Request for Bids		MARSHALL UNIVERSITY <sup>TM</sup>	Marshall University Office of Purchasing One John Marshall Drive Huntington, WV 25755-4100		Bid # R2001202	
Sealed req AWARD, U OFFICE OF prices will	uests to bid INLESS OTHE PURCHASIN be based on	for furnishing the supplies, equipment RWISE NOTED, THE BID WILL BE SUBM G TO HAVE A DATE/TIME STAMP AFFIX units specified; and Bidders will enter	For i Purc Pho Ema Purc or services described below will be recei ITTED ON THIS FORM IN ORIGINAL AND ( ED, ON OR BEFORE THE DATE AND TIME the delivery date or time for items conta	nformation co hasing Contact ne: (304) 696-2 il: negley4@m hasing@marsh ved by the Institutio 1) COPY, SIGNED IN SHOWN FOR THE BI ined herein. The Ins	ntact: t: Angela V 599 arshall.edu nall.edu n. TO RECEIV FULL IN INK, A D OPENING.	Vhite Negley u & cc: E CONSIDERATION FOR AND RECEIVED IN THE When applicable, ves the right to accept
or reject b Institution	ids on each i may require	tem separately or as a whole, to reject BIDS ARE SUBJECT TO THE GENERAL	any or all bids, to waive informalities or TERMS AND CONDITIONS AS SET FORTH	irregularities and to HEREIN.	contract as th	e best interests of the
<b>DATE</b> 12/12/2019		DELIVERY IS REQUIRED NO LATER THAN December 19, 2019, by 3:00 p.m.	DEPARTMENT REQUISITION NO. R2001202	BIDS OPEN: 3:00 p.m. on 12/19/19		DELIVERY DATE FOR EACH ITEM BID
Item #	Quantity		Description		Unit Price	Extended Price
		Project: Marshall University Baseba The purpose of this addendum specifications, and drawings as pe must be taken into account in pre contract documents. The questions were asked su have been provided as part of this Receipt of this addendum must b page and the addendum acknowle	Addendum #2 ect: Marshall University Baseball Stadium, Huntington, WV purpose of this addendum is to modify and/or clarify project requirements, cifications, and drawings as per the attached information. The updated information it be taken into account in preparing proposals and shall become a part of the final tract documents. e questions were asked subsequent to the pre-bid meeting and answers e been provided as part of this addendum. eipt of this addendum must be acknowledged in the space provided on this front e and the addendum acknowledgment page of the RFB packet.			
					Total	

To the Office of Purchasing, In compliance with the above, the undersigned offers and agrees, if this offer is accepted within \_\_\_\_\_\_ calendar days (30 calendar days unless a different period is inserted by the purchaser) from the bid open date, specified above, to furnish any or all items upon which prices are offered, at the price set opposite each item, delivered at the designated point(s), within the time specified.

Bidder guarantees sh	ipment from		Bidder's name Vendor	
	within	days	Signed By	
FOB	After receipt of order at ad	dress shown	Typed Name	
Terms			Title	
			Street Address	
			City/State/Zip	
			Date Phone	
BOG 43			Fein	
MU Rev. 05/15/14				

### SOLICITATION NUMBER: R2001202

### Marshall University Baseball Stadium Addendum Number: No. 2

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

### **Applicable Addendum Category:**

- [ ] Modify bid opening date and time
- [X] Modify specifications of product or service being sought
- [X] Attachment of vendor questions and responses
- [ ] Attachment of pre-bid sign-in sheet
- [ ] Correction of error
- [] Other

#### **Description of Modification to Solicitation:**

Addendum issued to publish and distribute the attached documentation to the vendor community.

1. To provide the University's answers to vendor's technical questions and clarify specifications.

### NO OTHER CHANGES.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment B and is specifically incorporated herein by reference.

#### **Terms and Conditions:**

- 1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
- 2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which can be found in the Request for Bid, Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

### ADDENDUM 02

Date of Issuance: December 12, 2019

#### Re: MARSHALL UNIVERSITY BASEBALL STADIUM Requisition No. R2001202 Marshall University, Huntington WV.

AECOM Project Number: 60590790

Issued By: AECOM Technical Services, Inc.

Issued To: All bidders/plan holders of record

Acknowledge receipt of this addendum in the Bid Form. Failure to acknowledge receipt of this addendum may render your bid non-responsive, and disqualify the Bidder.

The requirements of the original Bid documents remain in effect except as modified by this Addendum. Changes made by addenda take precedence over information published at an earlier date.

Bidders are advised to call attention to all sub-bidders and suppliers of all information and changes that might affect their work.

#### GENERAL CLARIFICATIONS:

# 1. Please see the FORM OF PROPOSAL, and the form for ADDENDA ACKNOWLEDGMENT, attached for Submission of Bid.

Per the Form of Proposal instructions for the Baseball Stadium Project, the bid of the Stadium Project is to include the defined allowances. Allowance No. 1 is the owner directed proposal of the scope of work in the Field & Turf RFP. This amount is provided in this addendum – see Item 2 under Specifications.

- 2. Please note the Field & Turf RFP has been provided as **"For Information Only"**, as noted in the Baseball Stadium Project bid documents. This includes:
  - **a.** Field & Turf RFP specifications provided at the end of Project Manual Volume 5, as indicated in the Project Manual Table of Contents
  - **b.** Field & Turf RFP drawings provided at the end of Drawing Set Volume 2, as indicated in the Sheet Index
  - c. Addendum F&T-01 attached to Addendum 01
  - d. Addendum F&T-02 attached to this addendum, Addendum 02

Providing the RFP documents of the Field & Turf package for familiarization was deemed necessary as the successful General Contractor for the stadium will assume the scope of work of the Field & Turf RFP as instructed in the bidding documents and under Allowance No. 1 per section 012100. These "For Information Only" documents should not be confused with the Division 0 and 1 bid documents provided in Volumes 1 and 2 of the Project Manual.

#### **INTERROGATIVES:**

**1.** Q. In Addendum 1, Sheets G101 and G102 show which drawings have been revised. Some of the sheets are shown as "Rev. No 1" however they are not included with the addendum.

A. The (1) in the Rev. No. column of the index on Sheets G101 and G102 was provided to identify all sheets which have been amended, regardless if they were reissued or modified in narrative only. The sheets that have a (1) in the column that were not reissued, have been revised in verbiage narrative by the addendum. The sheets that were reissued were identified as such in the addendum by indicating they were superseding the previously issued sheets.

2. Q. Spec. Section 012300 outlines Alternate No.1 as Full Construction of East Parking Lot however the Form of Proposal lists Alternate #1 as Vendors Choice Turf System, please clarify.

A. The Form of Proposal is for the Field & Turf RFP and has been issued "For Information Only". Alternate #1 for the Stadium project is indeed the full build out of the East Parking Lot.

**3.** Q. Spec. Section 281300 Section 1.1.A states to provide a complete functioning Access Control System, however Spec. Section 012100 Allowances, list Allowance No. 2 as owner-provided access control system. Can you clarify?

A. Allowance No. 2 is for engaging Marshall's preferred security contractor to do the final install of the controllers and readers for access control system. Marshall currently has a security company under contract that must make the final installation of controllers and readers. Marshall handles this through the GC and electrical contractors and negotiates the exact scope of work for completion. The purchasing of the equipment, pathways, and cabling installation are part of the contract documents.

**4.** Q. Spec. Section 012100 Allowances lists Allowance No. 3 as owner-provided equipment associated with cable TV distribution system as described in the Documents however other spec. sections indicate this work is the contractor's responsibility, can you clarify?

A. The scope provided by Marshall is inclusive of CATV RF Taps and Splitters (University to furnish and install). The University is to provide the incoming CATV signal from Campus CATV system and any equipment required to receive said signal. The University will hand off an RF signal at the Head End as indicated on TA705. The University is to furnish the CATV Modulators for Contractor to install. Contractor is to provide all remaining scope, including but not limited to: Head End components, stadium fiber distribution to closets, coaxial cable, terminations, etc. as indicated in drawings and specifications. Specifically reference TA705 and Section 27 41 33. Allowance No. 3 is intended to cover costs associated with the University installed and/or furnished scope as described here.

- **5.** Q. Drawing E601 shows Panel 2HLF being fed from Panel OLLD however Drawing E602 shoes Panel 2HLF being fed from Panel OHLD, can you clarify?
  - A. Panel 2HLF is to be fed from Panel 0LLD.
- 6. Q. There is an item #07 (lever waste w/ overflow) indicated on page FS2.01 however there is not item #07 in the Section 114000 Foodservice Equipment specifications. Can you please provide a specification?
  - A. See attached Food Service Specification 114000.
- Q. On page FS4.01, PRESS LEVEL OUTDOOR CLUB 3.L3.01 EQUIPMENT, there are two items (#138.1 & #164.1) without a written specification. The foodservice drawings reference these items on page FS5.05 with more details but can you please provide a specification of the backbar cooler? Who is to provide item #138.1 portable bar millwork?

A.The reissued 11 40 00 foodservice specifications issued in this addendum includes the specs for these two items.

8. Q. Will the project require the KEC to have a phased installation? If so, how many phases.

A. One installation phase for the KEC, if phases are not identified then the intent is not to have phased construction/installation at this time.

- **9.** Q. Can Mason and Barry with Andover/Schneider controls be accepted equal for Division #230900 Controls and Instruments section?
  - A. Yes this is acceptable.

- **10.** Q. Can Mason & Barry with Andover/ Schneider controls be accepted equal for the following divisions?
  - a. #281000 electronic security system
  - b. #281300 Access Controls
  - c. #282000 Video Surveillance

A. Marshall University is standardized on Transact access control and Panasonic video management. No substitutions are allowed.

- **11.** Q. In spec section 012500 Substitution Procedures it lists a document 002600 "Procurement Substitution Procedures", where is this document and are pre-bid substitutions being accepted?
  - A. See Spec. Section 012600 Contract Modification Procedures; yes they are.
- **12.** Q. Drawing A508 notes all railing assembly is to be provided with PVDF finish. Is there a specific company who makes railing with this coating as your basis of design? If so can you please provide.

A. PVDF is the industry standard for what is typically referred to as a brand name Kynar Finish. This painting system may be replaced with the coating system specified in 099600 High Performance Coatings under Exterior Steel Substrates.

- **13.** Q. Section 042000 2.4/C/1 describes "Natural White Sand". Will white sand be required in mortar mix for Type "A" or Type "B" CMU's or will Ohio River mason sand be sufficient?
  - A. For mortar please provide what is specified.
- **14.** Q. Section 042000-2.6/C/1 and D/1 describes truss type joint reinforcement. Will ladder type joint reinforcement be acceptable?
  - A. Provide what is specified.
- **15.** Q. Detail A3 on A521 shows flashing embedded into mortar joint approximately 1 5/8". Detail A4 on same page shows flashing turned up face of sheathing. Spec Section 042000 3.13/D/1 describes a different installation. Would it be acceptable to attach flexible flashing to backup using a termination bar with mechanical fasteners?
  - A. Yes the flashing with the termination bar would be acceptable.
- 16. Q. Section 042000-2.10/B states "for flashing not exposed to the exterior, unless otherwise noted and 3.13/D/3 describes a (drip edge) and 3.13/D/4 describes "sheet metal flashing". Please clarify whether metal through-wall flashing is required anywhere on this project or is 7oz copper laminated ship-lapped over 3 ½" stainless drip edge acceptable for all applications.

A. Section 2.10 notes for any flashing that is not exposed may be the copper laminated so this is not acceptable at all conditions. Section 3.13 describes how the sheet metal flashing is to be installed but 2.10 A identifies the options for the product.

- **17.** Q. Section 042000-2.2/C/1 Type "A" medium weight hollow concrete block. C/3 weight classification: Normal weight. Is normal weight block acceptable for Type "A"?
  - A. As noted under item 3 it is Normal Weight.
- **18.** Q. Detail A5 on A523 calls out "Foamed-In-Place Insulation". Spec Section 072119 1.2/A/1 refers to a closed-cell spray polyurethane foam. Is a closed-cell spray polyurethane recommended for injection into hollow concrete block? Can an open-cell aminoplast foam be used if closed-cell polyurethane is not recommended?

A. Provide the product as currently specified for bidding purposes in the revised spec 072119. An aminoplast foam may not be used.

- 19. Q. 042000 2.13/A Sand: Where noted, fill block with sand. Please identify walls to be filled with sand.
  - A. Walls with sand as block fill are no longer in the project.
- **20.** Q. Detail 1 on S721 "Typical Masonry Wall Reinforcement" calls for #4 @ 32" o.c. for 6" and 24" o.c. for 8" for horizontal bars. Please advise as to intent.

A.\_Detail 1 on S721 to be used for non-structural CMU partition walls only (for structural walls see S305 for reinforcement).

- **21.** Q. Will all openings in masonry walls up to 8' across with steel lintels as per Steel Lintel Schedule on S.721.
  - A. Lintel Schedule on S721 to be used for non-structural CMU partition walls only (for structural wall lintels see S305 and wall elevations keyed on the plans).

- 22. Q. Detail A3/A521 calls for "weather barrier". Is this referring to a fluid applied air barrier? Please advise.
  - A. See Spec. 072500
- 23. Q. The elevator spec states the elevator is based upon Otis' Gen2 which is an electric traction MRL elevator. Would a Hydraulic elevator be an option to bid? Our equipment requires a machine room of a minimum 6' X 8' space. Also the drawings call for a front and rear elevator and with that being said the elevator shaft is not deep enough. Our equipment requires 8'-4" Wide X 7'-9 1/2" Deep shaft size.
  - A. Please provide the basis of design or equal.
- **24.** Q. Drawing FS4.01 has a portable bar item #138.1. This item is not included in specification section 114000. Please advise.
  - A. See specification included in this addendum.
- **25.** How will adverse weather days be defined during the project?

A. Adverse weather is defined as weather above and beyond the normal snow fall, rain, etc. It does not mean 3 rain or snow days extend the schedule by 3 days.

**26.** Q. The E drawings show the (J)AC symbol at various doors. Per the Elec Door Hardware Connections schedule on E902 it indicates these doors have access control. When referring to the TN Drawings, some of these doors do not show any access control or card readers. Could you clarify what is required at these locations?

A. The card readers shown on the TN sheets were coordinated with the University and these locations are to be followed.

**27.** Q. Drawing TN001 General Note 1 indicates a Technology Matrix on TN000 but it is not shown on Drawing TN000. Could you please provide or clarify?

A. The technology matrix is no longer required for this project. The reference on TN001 can be disregarded.

- 28. Will Generac Industrial Power be an acceptable manufacturer for the Emergency Generator on this project?
  - A. Generac is not an acceptable manufacturer for the generator.
- 29. Will Generac Industrial Power be an acceptable manufacturer for the Automatic Transfer Switch?
  - A. Generac is not an acceptable manufacturer for the ATS.
- **30.** Will Eaton be an acceptable manufacturer for the Automatic Transfer Switch?
  - A. Eaton is an acceptable manufacturer for the ATS.
- **31**. Q. S100A CL L10/B and L9/B show footing noted as "(\*) F125." However, this footing designation is not shown on the Footing Schedule on S701. Please provide details for this footing.
  - A. Assume ftg reinforcement and thickness the same as (\*)F130
- **32**. Q. S100A CL L10/E, L8/E, and L7/E show footing noted as "(\*) F95." However, this footing designation is not shown on the Footing Schedule on S701. Please provide details for this footing.

A. Assume ftg reinforcement and thickness the same as (\*)F100

**33**. Q. S100A - CL LC/FLL2 shows two footings supporting Field Lights. The note from the EOR states "Field Light Support and Foundation to be Coordinated with Field Lights Designer." Please provide foundation design or criteria for estimate.

A. Field light foundation are part of field light design ( by others ). Structural drawings shows only place holders for the foundation – for estimate it can be assumed F75

**34.** Q. S100A - South of CL A.3 on CL O3, detail 4/S500 is referenced. This detail shows what appears to be a grade beam but does not provide any reference. Please provide details, including reinforcing, for this beam.

A. For estimate assume 2#6 bottom, 2#5 top, close #4 ties at 12" o.c., dowels to the 5" SOG as shown on det 1 / S702

35. Q. 9/S204 - Please provide details for 8" concrete pad at Segmented Retaining Wall.

A. Segmented Retain Wall will be design by others. Retaining wall is flexible and does not need footing – assume unreinforced concrete pad 8" x24"

**36**. Q. S100B - CL L4/L5 shows an 8" concrete wall. Sheet S701 provides reinforcing details for standard concrete walls with thickness of 12" and 16". Please provide typical reinforcing details for 8" concrete walls.

A. Assume - vert reinf #5@12" o.c., and horiz reinf. #4@12" o.c., EF

- 37. Q. S001 Reinforced Concrete #17 states "Concrete Walls shall be cast in alternate panels not exceeding 60 feet in length." Please clarify whether this means the maximum pour size is 60LF or if the design intent is to pour in a checkered fashion, where for every 60LF of wall poured we will have to skip the adjoining 60LF. If the intent is the second option, is there a specified duration that the missing section of wall must remain open (ie 24hrs or 28 days). Additionally, note that if we are to follow the alternating panel design, this will have a schedule impact for backfill and follow on trades.
  - A. The intent is to limit pour size.
- **38**. Q. Please confirm the plumber is installing the foundation drain.
  - A. Onus of separating scopes of work and how the work is performed is not on the design team.
- 39. Q. Please confirm the mass excavation subcontractor is handling the mass backfill.
  - A. Onus of separating scopes of work and how the work is performed is not on the design team.
- 40. Q. Please confirm the mass excavation subcontractor will be handling structural excavation.
  - A. Onus of separating scopes of work and how the work is performed is not on the design team.
- **41**. Q. Per the WV Fairness in Competitive Bidding Act, the apparent low bidder on projects exceeding \$250,000 shall provide a list of all subcontractors who will perform more than \$25,000 of the work on the project including labor and materials. No form was provided with the bidding documents for naming the subcontractors. Please advise if there is a specific format that Marshall University would like bidders to use or provide the desired form.
  - A. Reference the Form of Proposal provided in this addendum.
- **42**. Q. Drawing S506 Column Lines L12 to L13 There are various cuts in this area that reference drawing S506. Please provide notes/sizing/detailing of the hanging lintels shown on 4,5,6 / S506.

A. Details provided in Addenda 1 & 2.

**43.** Q. Drawing S103 - There appears to be rolled/curved steel channels between column lines R3 & L3. What is the radius for the C12x30 and EOS steel at this location?

A. Exact dimensions of the EOS and the bent channel radii will be provided in separately. The bent channel radius is approx. 99'-0" and 75'-5", and EOS is 6" out of channel axis.

**44.** Q. Reference is made to the Vendor / Distribution List contained in Specification Volume 1, Division 00 Purchasing Documents. Are the companies listed under Sections: Electrical Subcontractor, Mechanical Contractors, Temperature Control, HVAC Equipment Suppliers and Fire Protection the only companies that may be solicited for bidding of this project or are they just a list of companies utilized by Marshall University in the past? Please advise.

A. This is a list of companies utilized by Marshall University in the past for reference.

- **45**. Q. Reference is made to Section 230900 Controls and Instrumentation Pages 8 and 9 BMS Responsibility Matrix and Foot Notes 1,2, 3 and 6. It seems as though Foot Note 3 is not applicable as there are no electric baseboard heaters specified for the project. Please confirm that this is correct.
  - A. Correct
- **47**. Q. Drawing P102A Dugout Level Plumbing Plan Area A shows the new gas service entering the building between Columns L11 and L14. The gas line does not show until West of Column L11 and does not show at all between the entry point heading East. Please show the gas entry extending from the entry to West of Column L11. Also please identify on all Plumbing Drawings where the gas piping is to be run underground and aboveground.

A. The plan view will be adjusted so that the entire underground gas line is shown on DWG P101A. This sheet will be reissued as part of this Addendum #2

**48**. Q. Drawing P401 Plumbing Enlarged Plan Keynote 1. calls for the Plumbing Contractor to connect to thermostatic mixing valve (TMV) furnished by others with Division 11 Food Service Equipment. Please confirm that all TMV's will be furnished loose by the FSE Contractor for installation by the Plumbing Contractor (The referenced Note is shown 19 +/- times on Drawing P401. Also shown 3 +/- times on P407 Detail 1).

A. Plumbing contractor shall provide TMV in concession areas at hand wash sinks only. All three compartment sinks, and sinks integral with countertops in food service areas don't require TMV's

49. Q. Please provide Specifications for the laundry equipment.

A. This equipment is to be provided by owner; requested information is not available at this time.

- **50**. Q. Drawings P102B and P403 Detail 3 is gas piping required for the (3) clothes dryers? Please provide a drawing if gas piping is required.
  - A. Drawings P102B, P403, P501, and P502 will be revised to show gas piping to the dryers in Addendum #2.
- **51.** Q. Drawing P408 please provide a Sanitary Plan for Detail 3 Enlarged Plan at Suite Toilet Rooms & Pantry Press Level.
  - A. Refer to 1/8" scale plan P104A for sanitary piping serving press level toilet rooms.
- **52.** Q. Drawing P408 Detail 3 Keynote 11. states that all Plumbing Fixtures this area are furnished by others and installed by the Plumbing Contractor. As the Food Service Equipment Drawings FS4, FS4.01, FS4,01E, FS4.01M and FS4.01SC show the requirements for this Pantry would it be correct to state that the Plumbing Contractor would only be responsible to provide rough-ins and final connections for the "Plumbing Fixtures" in the Pantry? (Same would be true for Electrical and HVAC) As with other food service equipment the cost to furnish and install would be by the General Contractor and the Food Service Equipment Contractor. Please confirm.

A. The plumbing contractor would provide rough-ins and final connections for all sinks and equipment requiring plumbing piping connections. Plumbing contractor is also responsible for mounting hand wash sinks in food service areas.

- **53.** Q. Please describe which floor drains are to be served by trap primers and which type of trap primers are to be utilized (i.e. Reference Drawing P502 Details 9 and 10).
  - A. Trap primers and trap seals for floor drains will be addressed in this addendum.
- **54.** Q. Please show the standby generator on the Plumbing Drawings and also locate and size the gas piping to the generator.

A. Drawings P101A and P102A will be revised to show gas piping to generator. Drawings will be revised as part of this Addendum.

**55.** Q. Please provide a Schedule for the thermostatic mixing valve Tagged TMV2 shown on Drawing P501 Electric Water Heater Detail 5.

A. The thermostatic mixing valve schedule will be revised to include TMV2 as part of Addendum #2.

56. Q. Plumbing Drawing P101B Underground Plumbing Plan - Area B shows what appear to be (2) solids interceptors located near Columns R5 and L4 just outside the building, (These solids interceptors are identified as such on Civil Drawing C2-06) Section 221316 2.6 Solids Interceptor gives a description of the interceptor and lists three manufacturers but fails to give information needed to obtain pricing such as size, depth, capacity, gpm, etc. Please provide the information needed in order that we may solicit pricing for the bid.

A. Both Solids Interceptors are to be equal in E.C. Babbert Model 0-4 with a tank volume of 400 gallons. Unit to be 48" Dia ID (58" DIA. OD) with a depth of 78". Unit to have 8" inlet/outlet. The invert elevation is noted on plans.

- **57.** Q. Keynote 1 is added to Drawing P102B via Addendum No. 1. This Keynote calls for underground SCW piping to be pre-insulated with secondary containment. Please provide Specifications for underground "SCW" with pre-insulated secondary containment.
  - A. Refer to paragraph 2.2.G in spec section 221116
- **58.** Q. Please confirm that a two (2) year maintenance bond on the roofing system is not required for this project.
  - A. Do not include at this time, provide maintenance agreement only per the current documents.
- **59.** Q. On Sheet A602B indicates Visiting Team Showers, Visiting Team Grooming, and Visiting Team Toilet is to receive RF-3, however the transition from Janitor to Visiting Team Showers indicates RF-1. Please clarify if the Visiting Team Showers, Visiting Team Grooming, and Visiting Team Toilet is to receive RF-3 or RF-1.

A. RF-3

**60**. Q. Specification 118226 Facility Waste Compactor indicates a self-contained horizontal-type stationary compactor. In review of the Bid Set drawings, only references to the trash compactor that can be found are on E832 Electrical Site Plan - Parking and E901 Electrical Panel Schedules. Please provide direction as to the location, quantity, and how the compactor will be fed.

A. Location is shown in Civil drawings, specifically C2-03 for the (1) Compactor and E832 for elec. needs.

- **61**. Q. Sheet A601 under "Miscellaneous" indicates LK-1 Locker Phenolic, and to refer to Specification 102113. No specification 102113 was provided. Please provide.
  - A. Specification has been included herein.
- **62.** Q. Will Interkal Seating Aura Stadium Seating be an acceptable equal to Type 1 by 4Topps and Type 2 by American Seating as specified in126323 Stadium Seating?

A. It may be considered if it meets the specifications, and all information/paperwork required for the approval of a substitution request is provided prior to the submission deadline.

**63**. Q. Is Sports Graphic for padding an acceptable equal to Sportsfield Specialties as specified in 116833.40 Dugout Padding and Rail System?

A. It may be considered if it meets the specifications and is submitted as a substitution request before the deadline.

- **64.** Q. Specification 102600 Wall and Door Protection indicates corner guards, end-wall guards, and abuseresistant wall coverings. When referencing other Bidding Documents these items cannot be found. Please provide direction for what is to be provided for 102600 Wall and Door Protection.
  - A. See changes of the drawings for clarification.
- **65**. Q. Specification 101100 Visual Display Units indicates markerboards and tackboards. When referencing other Bidding Documents these items cannot be found. Please provide direction for what is to be provided for 101100 Visual Display Units.
  - A. Provide a 24" x 36" markerboard for (4) coaches offices.
- **66.** Q. On Sheet FS4.01 indicates 138.1 Portable Bar and 164.1 Back Bar Cooler Two Door. In Foodservice Equipment Specification 114000 there is no mention of the Items 138.1 and 164.1. Please advise if there are written specifications for the referenced items.
  - A. Please see revised spec issued herein this addendum.
- **67.** Q. On Sheet FS1.01U indicates 588 Ice Dispenser, 64.2 Filter System, 122.1 Ice Bin for Ice Machines, 122.3 Ice Maker, and 122.3C Remote Condenser. In Foodservice Equipment Specification 114000 there is no mention of the Items 588, 64.2, 122.1, 122.3, 122.3C. In review of drawings no plan for Players Lounge/Nutrition and Training Room can be found. Only a utility plan for referenced rooms. Please advise if plan with schedule is available for Players Lounge/Nutrition and Training Room can be found. Only a utility plan for method of the referenced items.
  - A. Please see revised spec issued herein this addendum.
- **68**. Q. Specification 034800 requires the precast contractor to apply one coat of sealer before shipment to the site for erection. This will cause a problem with the adherence of the caulking sealant and will probably void the sealant manufacturer's warranty. If the idea here is to protect the precast during shipment, be aware that our precast arrives at the site clean. Also a washdown is usually required at the site prior to the sealer being applied. Based on these statements it is requested that this requirement be removed from the precasters scope of work.

A. The requirement for the one coat of sealer prior to shipment may be removed. Apply sealer on site per the specs with verification the sealer is compatible with sealants, caulking, pedestrian traffic coating, expansion joint adhesive, etc.

- **69**. Q. The exterior main entrance precast stairs and landing slabs are noted on the drawings as architectural precast. There is no architectural precast specification, only structural spec section 034800 and these stairs are not included in this spec. The precast contractor needs to know what color, finish, and or any special aggregates that might be required for these steps. Please furnish the required information.
  - A. Consider these stairs and landings as structural precast at this time.
- **70**. Q. Precast spec 034800 page 7 para. 2.5 C states that an adhesive for securing precast intermediate steps to the tread and riser units is required. Drawing A501 has numerous details showing cast in place intermediate aisle steps. We have done many stadiums in the past and it is unusual to have these small aisle steps as precast. Please clarify.
  - A. These are to be cast in place aisle steps.

**71**. Q. Drawing A312 sections A1 and A4 have a note requiring a pedestrian traffic coating applied to the precast stadia. Traffic coatings and water repellant sealers are two completely different applications. Precast spec section 034800 does not have a traffic coating requirement only a sealer application requirement. Please clarify.

A. The area shown with pedestrian coating is to have pedestrian coating provided. Verify compatibility between the two applications or you may omit the sealer where traffic coating is to be provided.

- **72.** Q. Drawing FP101B calls for light hazard wet sprinkler coverage per Keynote 1 in the Visiting Team Locker Room. Drawing FP101C calls for dry light hazard coverage in Visiting Team Locker Room. Please clarify if coverage in the Visiting Team Locker Room is to be wet or dry.
  - A. In this area, all sprinklers are to be dry.
- **73.** Q. Specification 051200 1.6A requires the structural steel fabricator to a member of the AISC Quality Certification Program. Is an AISC quality certified fabricator mandatory?
  - A. This requirement was removed through Addendum 01.
- **74**. Q. Where is the "PCB Soil Remediation Plan" or the "Soil Removal Plan" described in the Specs Section 31-2000-3.1 located?

A. The PCB Soil Remediation Plan is part of the Environmental Workplan provided in the Potesta documents, found in Volume 1 of the Project Manual.

**75.** Q. Specification section 03 30 00 – page 11, under 3.11 Field Quality Control; Article A. indicates testing is by owner and Article B. Indicates Contractor is also responsible for testing. Can you please clarify?

A. Owner will choose a third party testing agency to be used, see Allowance No. 4 in Specification Section 012100 regarding this scope of work.

#### SPECIFICATIONS:

## General: Deleted portions of specifications are struck-through and underlined. Revised portions of specifications are bolded and underlined.

- 1. SECTION 000100 TABLE OF CONTENTS
  - a. **ADD** PHENOLIC LOCKERS 10 50 50 to the Table of Contents
- 2. SECTION 012100 ALLOWANCES
  - a. PART 3 EXECUTION

#### 3.3. SCHEDULE OF ALLOWANCES

#### **MODIFY** Paragraph A to read:

A. Allowance No. 1: Lump-Sum Allowance: Include the lump sum <u>of</u> **\$1,075,000** from the awarded bid of <u>for the owner directed proposal</u> of the Marshall Baseball Field and Turf Contract. This sum will be provided by addendum prior to the bid date.

1. This allowance includes items defined by the FIELD & TURF PRICING DOCUMENTS, dated 11/08/19, <u>and addenda FT-01</u> <u>and FT-02</u>. This package is included in these documents as FOR INFORMATION ONLY.

- 3. Section 012500 SUBSTITUTION PROCEDURES
  - a. Paragraph 1.1.B.1, replace text "002600 Procurement Substitution Procedures" with "012600 Contract Modification Procedures".

#### 4. Section 064013 – EXTERIOR ARCHITECTURAL WOODWORK

#### PART 2 – PRODUCTS

а

- 2.1 MATERIALS
  - B. Cedar Cladding System
- ADD Cedar Per the Western Red Cedar Lumber Association
  - a. Size: 1"x6" Nominal (11/16"x5-3/8" Dry). Exposed face = 5"
  - b. Species: Western Red Cedar (WRCLA Western Red Cedar)
  - c. Grade: Clear Heart
  - d. Profile: Tongue and Groove
  - e. Joints: Flush Joints (NOT V-Grooved)
  - f. Installation: Vertical
  - g. Surface to be exposed: Smooth Face
  - h. Fastening: Blind fastening through "tongue", with stainless steel (No. 304) "split-less" ring shank nails.
  - i. Staining: Stain as soon as possible; apply a finish coat prior to weathering.
- b. 2.4 EXTERIOR ORNAMENTAL WORK FOR NATURAL FINISH A. Exterior ornamental work for natural finish includes the following:
  - ADD 3. Cedar Cladding System
- 5. Section 072119 FOAMED-IN-PLACE INSULATION
  - a. This Specification to supersede the earlier specification dated Nov. 15th, 2019.
- 6. Section 105050 PHENOLIC LOCKERS
  - a. This Specification is to be added in its entirety.
- 7. Section 105113 METAL LOCKERS

a.

- PART 2 PRODUCTS
  - 2.1 MANUFACTURERS
    - A. Manufacturer:
  - ADD e. Scranton Products Tufftec Lockers
- 8. Section 114000 FOOD SERVICE EQUIPMENT
  - a. This Specification to supersede the earlier specification dated Nov. 15<sup>th</sup>, 2019.
- 9. Section 126100 FILM STUDY SEATING
  - a. PART 2 PRODUCTS
    - 2.1 MANUFACTURERS
      - B. Alternative Manufacturers:
    - ADD 2. Irwin Seating: Model Citation
- 10. Section 126323 STADIUM SEATING
  - a. PART 2 PRODUCTS
    - 2.1 BASIS OF DESIGN
      - B. Acceptable Manufacturers for Stadium Seating Type 2.
    - ADD 2. Hussey Seating: Model Fusion
- 11. Section 230900 CONTROLS AND INSTRUMENTATION
  - a. This Specification is to be added in its entirety.
- 12. Section 265668 EXTERIOR ATHLETIC LIGHTING
  - a. This Specification to supersede the earlier specification dated Nov. 15th, 2019.

#### DRAWINGS:

# General: Revisions to drawings are clouded and have a delta symbol affixed to them. The order of addenda numerically will inform the mark within the delta.

#### GENERAL

- 1. Sheet(s) G101 and G102 DRAWING INDEX
  - a. This sheet supersedes the earlier submission dated 02 December 2019.

#### ARCHITECTURAL

- 1. Sheet A102A CONCOURSE LEVEL 2 AREA FLOOR PLAN AREA A
  - a. Detail A1 Concourse Level Area A
  - CHANGE note which reads "Galvanized chain link fence / gating with wall padding at exterior equip. storage" to read "Chain link fence / gating at exterior equip. storage is to be included in Field & Turf RFP Wall Padding to remain in Stadium Project".

Note all other fencing above masonry outfield wall is to remain in Stadium Project scope of work.

- 2. Sheet A102B CONCOURSE LEVEL 2 AREA FLOOR PLAN AREA B
  - a. Detail A1 Concourse Level Area B
     CHANGE note which reads "Line of Utility Trench below slab serving Visiting Team
     Dugout" to read ""Line of Utility Trench below slab serving Visiting Team Dugout –
     Provide 4" h. curb at opening perimeter and close with a sheet metal cap to provide a
- 3. Sheet A102F CONCOURSE LEVEL 2 AREA FLOOR PLAN AREA F
  - a. Detail A1 Concourse Level Area F

watertight enclosure ".

- CHANGE note which reads "Black vinyl chainlink fencing with 10' wide gate leaf and wall pads at field entrance – Center within ramp" to read "Black vinyl gating with 10' wide leaf at field entrance is to be included Field & Turf RFP – Center within ramp and coordinate with contiguous fencing. Wall Padding to remain in Stadium Project".
- 4. Sheet A151A / DUGOUT/FIELD LEVEL 1 REFLECTED CEILING PLAN AREA A
  - a. Ceiling height in Officials Locker A 1.L13.02 shall be 9'-0" AFF and gyp. soffit height shall be 8'-0" AFF.
  - b. Ceiling height in Officials Tlt A 1.L12.02 shall be 9'-0" AFF.
  - c. Ceiling height in Officials Locker B 1.L13.01 shall be 9'-0" AFF and gyp. soffit height shall be 8'-0" AFF.
  - d. Ceiling height in Officials TIt B 1.L12.01 shall be 9'-0" AFF.
  - e. Ceiling height in Officials Lounge 1.L14.03 shall be 9'-0" AFF.
  - f. Ceiling height in Food Storage 1.L11.03 shall be 9'-0" AFF.
  - g. Ceiling height in Ops Office 1.L13.03 shall be 9'-0" AFF.
  - h. Ceiling height in Food Service Office 1.L13.04 shall be 9'-0" AFF.
- 5. Sheet A213 EXTERIOR ELEVATIONS WEST ELEVATION OUTFIELD WALL
  - a. Detail C1 West Elevation Outfield Wall North End

CHANGE note which reads "Galvanized chainlink fencing / gating with full wall pads at ext. storage" to read "Chain link fence / gating is included in Field & Turf RFP – Wall Padding to remain in Stadium Project".

- 6. Sheet A322 Wall Sections
  - a. Detail A6 Wall Section @ Grid Line L8/L9

CHANGE Elev. at B.O. Steel from 555'-10" to read "555'-8".

- 7. Sheet A401 ENLARGED FLOOR PLANS DUGOUT/FIELD LEVEL 1
  - a. Detail A1 Enlarged Plan Visiting Team Dugout

Within the 6" cmu wall in the SW corner of Room 1.R5.01, provide a 4' wide x 7'-4" high opening in the wall with a per scheduled bond beam spanning the top of the wall. Locate the East edge of opening so it courses with block but 8" min. to the West face of the 8" cmu wall that runs perpendicular.

- 8. Sheet A503 EXTERIOR DETAILS BOWL DETAILS
  - a. Detail C1 Section @ Outfield Access Gate

CHANGE note which reads "Black vinyl coated chainlink gate in alignment with fencing beyond" to read "Black vinyl coated chainlink gate is included in Field & Turf RFP – Wall Padding to remain in Stadium Project".

b. Detail C3 – Fencing Section @ Equipment Storage

CHANGE note which reads "Galv. chainlink gate in alignment with fencing beyond" to read "Black vinyl coated chainlink gate is included in Field & Turf RFP – Wall Padding to remain in Stadium Project".

- 9. Sheet A521 EXTERIOR DETAILS SECTIONS @ DUGOUT LEVEL
  - a. Detail B1 Slab Edge / Railing Detail @ Slab on Grade Retaining Wall

ADD "T.O. Steel Elevation / Elev. 559'-0 ¾"" to the top of the bent plate.

b. Detail B3 – Slab Edge / Railing Detail @ Split Slab CMU Backup

ADD "T.O. Steel Elevation / Elev. 559'-0  $3\!\!\!/$  "" to the top of the bent plate.

c. Detail B4 – Slab Edge / Railing Detail @ Split Slab Stud Backup

ADD "T.O. Steel Elevation / Elev. 559'-0 <sup>3</sup>/<sub>4</sub>"" to the top of the bent plate.

- 10. Sheet A523 EXTERIOR DETAILS SECTIONS @ CONCOURSE LEVEL
  - a. This sheet supersedes the earlier submission dated 02 December 2019.
- 11. Sheet A525 EXTERIOR DETAILS SECTIONS @ PRESS LEVEL
  - a. This sheet supersedes the earlier submission dated 02 December 2019.
- 12. Sheet A601 / FINISH LEGEND
  - a. REMOVE TZ-1 from scope.
  - b. ADD Material tag CG-1 Corner Guard. Manufacturer basis of design shall be CS Acrovyn Stainless Steel Corner Guards CO-8, satin finish.
- 13. Sheet A602B / FINISH PLAN DUGOUT/FIELD LEVEL 1 AREA B
  - a. Visiting Team Showers 1.R4.02, Grooming 1.R4.03, and Toilet 1.R3.03 shall be RF-3, as indicated on finish tag.
- 14. Sheet A603A / FINISH PLAN CONCOURSE LEVEL 2 AREA A
  - a. ADD Stainless steel corner guards CG-1 to all outer corner gyp bd. walls in Lobby 2.L11.04.
- 15. Sheet A604A / FINISH PLAN PRESS LEVEL 3 AREA A
  - a. ADD Stainless steel corner guards CG-1 to all outer corn gyp bd. walls in Corridor 3.L9.04 and Club/Team Meeting Room 3.L63.01.
- 16. Sheet A604B / FINISH PLAN PRESS LEVEL 3 AREA B
  - a. ADD Stainless steel corner guards CG-1 to all outer corner gyp bd. walls in Corridor 3.L4.03, Corridor 3.L205, Scoreboard/Sound/Replay 3.L1.04, PA Announcer/Official Scorer 3.L1.03, TV Booth 3.L1.02, Home Radio 3.R1.01, Visiting Radio 3.R1.02, Emeritus/Visitor AD Suite 3.R1.04, Work Room 3.R2.01, and Writing Press 3.R3.01.

- 17. Sheet A611 DOOR SCHEDULE
  - a. CHANGE Height of Door 1.L.13.05 to 8'-4" in lieu of 8'-8".

#### STRUCTURAL

- 18. Sheet S104 ROOF (PRESS LEVEL) FRAMING PLAN
  - a. This sheet supersedes the earlier submission dated 02 December 2019.
- 19. Sheet S304 LLRS MASONRY SHEARWALLS 1
  - a. This sheet supersedes the earlier submission dated 02 December 2019.
- 20. Sheet S305 LLRS MASONRY SHEARWALLS 2
  - a. Add this sheet in its entirety.
- 21. Sheet S501 SECTIONS AND DETAILS 2 (CONCOURSE)
  - a. This sheet supersedes the earlier submission dated 02 December 2019.
- 22. Sheet S505 SECTIONS AND DETAILS 6 (MISC. FAÇADE FRMG)
  - a. This sheet supersedes the earlier submission dated 02 December 2019.
- 23. Sheet S507 SECTIONS AND DETAILS (MISC. FAÇADE FRMG)
  - a. This sheet supersedes the earlier submission dated 02 December 2019.
- 24. Sheet S721 MASONRY TYP. DETAILS 1
  - a. This sheet supersedes the earlier submission dated 02 December 2019.

#### MECHANICAL

- 25. Sheet M001 GENERAL INFO HVAC
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 26. Sheet M101A DUGOUT LEVEL HVAC DUCTWORK PLAN AREA A
  - b. This sheet supersedes the earlier submission dated 15 November 2019.
- 27. Sheet M101B DUGOUT LEVEL HVAC DUCTWORK PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 28. Sheet M104A CONCOURSE LEVEL HVAC DUCTWORK PLAN AREA A
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 29. Sheet M104B CONCOURSE LEVEL HVAC DUCTWORK PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 30. Sheet M105A PRESS LEVEL HVAC DUCTWORK PLAN AREA A
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 31. Sheet M105B PRESS LEVEL HVAC DUCTWORK PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 32. Sheet M201A DUGOUT LEVEL HVAC PIPING PLAN AREA A
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 33. Sheet M204D CONCOURSE LEVEL HVAC PIPING PLAN AREA D
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 34. Sheet M205B PRESS LEVEL HVAC PIPING PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.

35. Sheet M301 - MECHANICAL SECTIONS

a. This sheet supersedes the earlier submission dated 15 November 2019.

- 36. Sheet M401 MECHANICAL ENLARGED PLANS
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 37. Sheet M501 MECHANICAL DETAILS

a. This sheet supersedes the earlier submission dated 15 November 2019.

38. Sheet M602 - MECHANICAL SCHEDULES

a. This sheet supersedes the earlier submission dated 15 November 2019.

- 39. Sheet M801 MECHANICAL SEQUENCE OF OPERATIONS/CONTROLS
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 40. Sheet M802 MECHANICAL SEQUENCE OF OPERATIONS/CONTROLS
  - a. This sheet supersedes the earlier submission dated 15 November 2019.

#### PLUMBING

- 41. Sheet P404 PLUMBING ENLARGED PLANS
  - a. This sheet supersedes the earlier submission dated 02 December 2019.
- 42. Sheet P501 PLUMBING DETAILS
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 43. Sheet P502 PLUMBING DETAILS
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 44. Sheet P503 PLUMBING DETAILS
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 45. Sheet P601 PLUMBING SCHEDULES
  - a. This sheet supersedes the earlier submission dated 15 November 2019.

#### ELECTRICAL

- 46. Sheet E101A DUGOUT LEVEL LIGHTING PLAN AREA A
  - a. sheet supersedes the earlier submission dated 15 November 2019.
- 47. Sheet E101B DUGOUT LEVEL LIGHTING PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 48. Sheet E102A CONCOURSE LEVEL LIGHTING PLAN AREA A
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 49. Sheet E102B CONCOURSE LEVEL LIGHTING PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 50. Sheet E102C CONCOURSE LEVEL LIGHTING PLAN AREA C
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 51. Sheet E103A PRESS LEVEL LIGHTING PLAN AREA A
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 52. Sheet E103B PRESS LEVEL LIGHTING PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.

- 53. Sheet E201A DUGOUT LEVEL POWER PLAN AREA A
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 54. Sheet E201B DUGOUT LEVEL POWER PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 55. Sheet E202A -CONCOURSE LEVEL POWER PLAN AREA A
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 56. Sheet E202B -CONCOURSE LEVEL POWER PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 57. Sheet E202C -CONCOURSE LEVEL POWER PLAN AREA C
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 58. Sheet E203A PRESS LEVEL POWER PLAN AREA A
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 59. Sheet E203B PRESS LEVEL POWER PLAN AREA B
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 60. Sheet E301 ENLARGED POWER PLANS
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 61. Sheet E401 DUGOUT LEVEL FIRE ALARM PLAN OVERALL
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 62. Sheet E402 CONCOURSE LEVEL FIRE ALARM PLAN OVERALL
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 63. Sheet E403 PRESS LEVEL FIRE ALARM PLAN OVERALL
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 64. Sheet E502 ELECTRICAL DETAILS
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 65. Sheet E601 ELECTRICAL ONE-LINE DIAGRAM
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 66. Sheet E602 ELECTRICAL RISER DIAGRAM
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 67. Sheet E831 ELECTRICAL SITE PLAN STADIUM
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 68. Sheet E832 ELECTRICAL SITE PLAN PARKING
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 69. Sheet E901 ELECTRICAL PANEL SCHEDULES SHEET 1
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 70. Sheet E901B ELECTRICAL PANEL SCHEDULES SHEET 2
  - a. This sheet supersedes the earlier submission dated 15 November 2019.
- 71. Sheet E902 ELECTRICAL SCHEDULES
  - a. This sheet supersedes the earlier submission dated 15 November 2019.

#### ATTACHMENTS:

FORM OF PROPOSAL ADDENDA ACKNOWLEDGMENT FORM Section 072119 - FOAMED-IN-PLACE INSULATION Section 105050 - PHENOLIC LOCKERS Section 114000 - FOODSERVICE SPECIFICATIONS Section 230900 - CONTROLS AND INSTRUMENTATION Section 265668 - EXTERIOR ATHLETIC LIGHTING Sheet G101 – SHEET INDEX Sheet G102 – SHEET INDEX Sheet A523 – EXTERIOR DETAILS – SECTIONS @ CONCOURSE LEVEL Sheet A525 – EXTERIOR DETAILS – SECTIONS @ PRESS LEVEL Sheet S104 – ROOF (PRESS LEVEL) – FRAMING PLAN Sheet S304 – LLRS MASONRY – SHEARWALLS 1 Sheet S305 - LLRS MASONRY - SHEARWALLS 2 Sheet S501 – SECTIONS AND DETAILS 2 (CONCOURSE) Sheet S505 – SECTIONS AND DETAILS 6 (MISC. FAÇADE FRMG) Sheet S507 – SECTIONS AND DETAILS (MISC. FACADE FRMG) Sheet S721 – MASONRY – TYP. DETAILS 1 Sheet M001 - GENERAL INFO - HVAC Sheet M101A – DUGOUT LEVEL HVAC DUCTWORK PLAN – AREA A Sheet M101B – DUGOUT LEVEL HVAC DUCTWORK PLAN – AREA B Sheet M104A – CONCOURSE LEVEL HVAC DUCTWORK PLAN – AREA A Sheet M104B - CONCOURSE LEVEL HVAC DUCTWORK PLAN - AREA B Sheet M105A - PRESS LEVEL HVAC DUCTWORK PLAN - AREA A Sheet M105B - PRESS LEVEL HVAC DUCTWORK PLAN - AREA B Sheet M201A - DUGOUT LEVEL HVAC PIPING PLAN - AREA A Sheet M204D - CONCOURSE LEVEL HVAC PIPING PLAN - AREA D Sheet M205B – PRESS LEVEL HVAC PIPING PLAN – AREA B Sheet M301 – MECHANICAL SECTIONS Sheet M401 – MECHANICAL ENLARGED PLANS Sheet M501 – MECHANICAL DETAILS Sheet M602 - MECHANICAL SCHEDULES Sheet M801 – MECHANICAL SEQUENCE OF OPERATIONS/CONTROLS Sheet M802 - MECHANICAL SEQUENCE OF OPERATIONS/CONTROLS Sheet P404 – PLUMBING ENLARGED PLANS Sheet P501 - PLUMBING DETAILS Sheet P502 – PLUMBING DETAILS Sheet P503 – PLUMBING DETAILS Sheet P601 – PLUMBING SCHEDULES Sheet E101A – DUGOUT LEVEL LIGHTING PLAN – AREA A Sheet E101B - DUGOUT LEVEL LIGHTING PLAN - AREA B Sheet E102A – CONCOURSE LEVEL LIGHTING PLAN – AREA A Sheet E102B - CONCOURSE LEVEL LIGHTING PLAN - AREA B Sheet E102C - CONCOURSE LEVEL LIGHTING PLAN - AREA C Sheet E103A – PRESS LEVEL LIGHTING PLAN – AREA A Sheet E103B - PRESS LEVEL LIGHTING PLAN - AREA B Sheet E201A - DUGOUT LEVEL POWER PLAN - AREA A Sheet E201B – DUGOUT LEVEL POWER PLAN – AREA B Sheet E202A - CONCOURSE LEVEL POWER PLAN - AREA A Sheet E202B - CONCOURSE LEVEL POWER PLAN - AREA B Sheet E202C - CONCOURSE LEVEL POWER PLAN - AREA C Sheet E203A - PRESS LEVEL POWER PLAN - AREA A Sheet E203B – PRESS LEVEL POWER PLAN – AREA B Sheet E301 - ENLARGED POWER PLANS

Sheet E401 – DUGOUT LEVEL FIRE ALARM PLAN – OVERALL

- Sheet E402 CONCOURSE LEVEL FIRE ALARM PLAN OVERALL
- Sheet E403 PRESS LEVEL FIRE ALARM PLAN OVERALL
- Sheet E502 ELECTRICAL DETAILS
- Sheet E601 ELECTRICAL ONE-LINE DIAGRAM
- Sheet E602 ELECTRICAL RISER DIAGRAM
- Sheet E831 ELECTRICAL SITE PLAN STADIUM
- Sheet E832 ELECTRICAL SITE PLAN PARKING
- Sheet E901 ELECTRICAL PANEL SCHEDULES SHEET 1
- Sheet E901B ELECTRICAL PANEL SCHEDULES SHEET 2
- Sheet E902 ELECTRICAL SCHEDULES
- ADDENDUM F&T-02 Issued "For Information Only"

#### END OF ADDENDUM

#### FORM OF PROPOSAL

 DATE:
 Angela White Negley

 TO THE OWNER:
 Angela White Negley

 CPO, Director of Purchasing, Marshall University

 One John Marshall Drive

 Huntington, West Virginia 25755

 PROJECT:

 Requisition No:

 Resolution

 Marshall University Baseball Stadium

 Huntington, West Virginia 25755

The undersigned, hereinafter called the Bidder, being familiar with and understanding the Bidding Documents and also having examined the site and being familiar with conditions affecting the Project hereby proposes to furnish all labor, material, equipment, supplies and transportation, and to perform all Work in accordance with the Bidding Documents within the time set forth below for the sum listed.

Bidder, if successful and awarded a Contract, will receive a notice to proceed from Owner.

The Contractor agrees that the Work shall be Substantially Complete by March 1, 2021 and agrees to achieve Final Completion of the Work by April 1, 2021.

Contractor shall determine the required sequence of construction activities to obtain this date.

The Owner will suffer financial loss if the Work is not Substantially Complete within the Contract Time. For each calendar day of delay in achieving Substantial Completion, the Contractor shall be liable for and shall pay the Owner, not as a penalty but as liquidated damages, in accordance with the following schedule:

### For each calendar day the project is not Substantially Complete, damages to be assessed at \$1,000.00 (One Thousand Dollars) per day.

For each calendar day of delay in achieving Final Completion, the contractor shall be liable for and shall pay half the amount of liquidated damages stated above, plus any additional fees of the Architect and the Architect's consultants that may accrue. Allowances may be made for delays due to shortages of materials and/or energy resources, subject to proof by documentation, and also for delays due to strikes or other delays beyond the control of the Contractor. The Contractor in accordance with the Contract Documents must properly document all delays and any claim for extension of the Contract Time.

BASE PROPOSAL:

(Amount to be shown in both words and numbers)

#### ADDENDA

The Bidder acknowledges receipt of all Addenda. Include with the Form of Proposal, the completed ADDENDA ACKNOWLEDGEMENT form.

#### ALLOWANCES

The Bidder acknowledges that the amount of the Base Proposal stated on this Form of Proposal includes the Allowance(s) described in Section 01 2100 – Allowances.

Marshall University Baseball Stadium Addendum 02 December 12, 2019 AECOM Project No. 60590790

Form of Proposal

#### UNIT PRICES

The following Unit Price a with Section 01 2200 – L	mounts shall be included in the Base Proposal if s Init Prices.	selected by the Owner in accordance				
Unit Price No. 1:	Authorized Additional Excavation, including export and disposal (Per Section 31 2000 – Earth Moving)					
Add:						
	(Amount to be shown in both words and n	umbers)				
Per Unit of Change:						
Unit Price No. 2:	Authorized Additional Compacted Fill and/or Backfill of Soil Materials (Per Section 31 2000 – Earth Moving)					
Add:						
	(Amount to be shown in both words and numbers)					
Per Unit of Change:						
ALTERNATES The following Alternates all drawings and/or spec Section 01 2300 – Altern	may be added to the Base Proposal if selected if is in Base Bid, except where specifically chates.	by the Owner. All work shown on alled to be an Alternate. Refer to				
Alternate No. 1: Full Construction of East Parking Lot						
Add:						
	(Amount to be shown in both words and r	numbers)				
Respectfully submitted:						
Signature:	(Signature in Ink)	Date:				
Name:						
	(Please Type or Print)					
Title:		Corporate Seal (if applicable)				
Firm Name:						
Firm Address:						
Telephone:						
Contractor's Licer	nse No.:					
Marshall University Bas Addendum 02	eball Stadium					
December 12, 2019 AECOM Project No. 60	590790	Form of Proposal 2				

#### LIST OF PROPOSED SUBCONTRACTORS, EQUIPMENT / MATERIAL SUPPLIERS:

List as designated below each subcontractor / supplier for this proposal who will perform more than \$25,000 of work on the project. Also, provide contractor's license number for each subcontractor as required by 'West Virginia Contractor Licensing Act" and FEIN number as required by 'West Virginia Fairness in Competitive Bidding Act".

If the branch of work is to be completed solely by Contractor, so indicate. If acceptance of an alternate proposal changes a subcontractor or equipment and/or material supplier, indicate by notation below. Contractor is responsible for selecting or changing subcontractors and/or equipment and/or material suppliers. Owner and Architect and Engineers may indicate their concerns about any entity listed which they have reason to believe past experience indicates poor performance may be expected. Bidder may be requested to change an unsatisfactory subcontractor or equipment and/or material supplier. Contractor has full responsibility for satisfactory execution of all work in accordance with Contract Documents. Any change of proposed subcontractors or material suppliers shall be at no additional cost to Owner, as Contractor has full responsibility for execution of the work.

No.	Subcontractor/Supplier Name	Contractor License #	FEIN #

(Use additional pages as required.)

#### END OF FORM OF PROPOSAL

Marshall University Baseball Stadium Addendum 02 December 12, 2019 AECOM Project No. 60590790

Requisition No.: R2001202

### ADDENDA ACKNOWLEDGEMENT

I hereby acknowledge receipt of the following checked addenda and have made the necessary revisions to my proposal, plans, and/or specifications, etc.

Addenda:

No. 1

No. 2

I understand that failure to confirm the receipt of the each Addendum is cause for rejection of bids.

Signature

Company

Date



#### SECTION 072119 - FOAMED-IN-PLACE INSULATION

#### Section Record:

Issued: Addendum 02 - December 12<sup>th</sup>, 2019

Issued, 100% Construction Documents November 15, 2019

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

#### 1.2 SUMMARY OF WORK

- A. Scope of Work: The work covered by this section of the specifications consists in furnishing all labor, equipment, appliances, hardware, and materials necessary in performing work for and reasonably incidental to complete the installation of:
  - 1. Spray foam components and penetrating insulation for wall cavities and core of concrete block.
- B. Related Sections: The following sections contain requirements to properly perform work specified in this Section:
  - 1. Division 4 Section "Unit Masonry."

#### 1.3 REFERENCES

- A. American Society for Testing and Materials (ASTM):
  - 1. ASTM C 518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
  - 2. ASTM D 2842 Standard Test Method for Water Absorption of Rigid Cellular Plastics.
  - 3. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 4. ASTM E 90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
  - 5. ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials.
  - 6. ASTM E 119 Standard Test Methods for Fire Tests of Building Construction and Materials.
  - 7. ASTM E 413 Standard Classification for Rating Sound Insulation.



#### 1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions, including the following:
  - 1. Product description, insulation properties, preparation, and storage requirements.
    - a. Note any adverse reactions product may have with common construction materials.
    - b. Note any human safety concerns related to the use or installation of foam insulation products.
  - 2. Requirements and procedures for site installation, including equipment and accessories.
  - 3. Certification by manufacturers that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).
  - 4. Provide Material Data Safety Sheets for all products to be used.
- B. Quality Assurance / Control Submittals: Submit the following:
  - 1. Test Reports: Provide product test reports upon request.
  - 2. Certificates:
    - a. Manufacturer's certification that applicator is trained in installation of product and is authorized by manufacturer to install product.

#### 1.5 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Applicator Qualifications: Utilize a qualified applicator with demonstrated experience in performing work comparable to the work of this Section, and who is trained and authorized by the manufacturer to install the product.
- B. Certifications: Manufacturer certification that product complies with requirements of this Section.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to applicator in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer. Product should be stored in paper sacks and protected from any water source until blending by installer.

#### 1.7 PROJECT / SITE CONDITIONS

A. Environmental Requirements: Do not install foam insulation when product temperature is below 50 deg F.



#### 1.8 GUARANTEE

A. Guarantee: In addition to warranty requirements, all work in this Section shall be guaranteed against any and all defects in workmanship appearing within a period of one (1) year after final completion and acceptance of the work by the Owner. Contractor shall replace, without additional expense to the Owner, any materials and workmanship which show defects within said period, with finished and new materials.

#### PART 2 - PRODUCTS

#### 2.1 FOAMED-IN-PLACE BLOCK WALL INSULATION

- A. Basis-of-Design Product: The product for foam insulation systems is based on the product named. Subject to compliance with requirements, provide either the named product or a comparable product by one of the other manufacturers specified.
- B. Manufacturer: PolyMaster, Inc.
  - 1. PolyMaster R-501 Foam Insulation:
    - a. Formulation: 3-part polymer foamed-in-place plastic insulation consisting of a proprietary dry powder resin, mixed by the applicator with a catalyst and foamed with compressed air.
    - b. Thermal Properties: K-value and R-value per inch thickness at 25 deg F (ASTM C 518): K-value 0.216 BTU (ft<sup>2</sup> x h x deg F). R-value 4.63 (ft<sup>2</sup> x h x deg F/BTU.
    - c. Thermal Properties: K-value and R-value per inch thickness at 75 deg F (ASTM C 518): K-value 0.244 BTU / ft<sup>2</sup> x h x deg F). R-value 4.09 ft<sup>2</sup> x h x deg F/BTU.
    - d. Water Vapor Transmission (ASTM E 96): 4.655 grains/ hr x ft<sup>2</sup>.
    - e. Permeance (ASTM E 96): 6.631 perms/inch.
    - f. Average Permeability (ASTM E 96): 15.749.
    - g. Water Vapor Absorption (ASTM D 2842): 10% by volume at 24 hours, at 25 deg F, at 100% relative humidity.
    - h. Surface Burning Characteristics (ASTM E 84): Flamespread 25, smoke developed 40, thickness 1 inch.
    - i. Building Code Surface Burning Classification: Class I or Class A.
    - j. Shrinkage: 2% maximum.
    - k. Corrosivity: Non-corrosive.
    - I. Asbestos or Glass Fiber Content: None.
    - m. Off-Gassing or Odors: None.
    - n. Formaldehyde or CFC Content: None.
    - o. Biodegradability: Biodegradable.
- C. Acceptable Manufacturers:
  - 1. Foam Enterprises, Inc
  - 2. Abatron, Inc.
  - 3. FOAM-TECH division of H. C. Fennell, Inc.



#### **PART 3 - EXECUTION**

#### 3.1 MANUFACTURER'S INSTRUCTIONS

A. Comply with the instructions and recommendations of the foamed-in-place building insulation manufacturer.

#### 3.2 EXAMINATION

- A. Site Verification of Conditions:
  - 1. Ensure spaces are free of mortar or other restrictions to the free flow of foam insulation.

#### 3.3 PREPARATION

- A. Select most aesthetically pleasing locations for foam injection, including:
  - 1. Locations to be concealed:
    - a. Masonry joints.
    - b. Wythe side of walls.
    - c. Covered side of walls.
    - d. Window jamb behind trims.
- B. For pressure fill installation, drill fill holes.
  - 1. Drill Hole Size: Maximum diameter 5/8 inch.

#### 3.4 INSTALLATION

A. Install foam insulation in voids using top fill method to a uniform density. Completely fill all spaces, crevices, and voids.

#### 3.5 FIELD QUALITY CONTROL

- A. Site Tests: Verify insulation density of each foam batch by random sampling of foam before installation.
  - 1. Fill a 1-gallon non-sealing plastic bag with foam.
  - 2. The bag weight shall be between 285 325 grams.
- B. Inspection: Verify complete filling of voids by drilling upon request.
  - 1. Fill and point holes in masonry with mortar after inspection.
- C. Correct any foam installation found not to be in compliance with manufacturer's requirements.



#### 3.6 CLEANING

A. After foam insulation sets, remove excess insulation outside of void. Properly and legally dispose of waste with other construction waste material.

END OF SECTION 072119



#### SECTION 10 5050 - PHENOLIC LOCKERS

#### Section Record:

Issued: Addendum 02 - December 12, 2019.

#### PART 1 – GENERAL

#### 1.01 WORK INCLUDED

- A. <u>Class B</u> Fire Rated Phenolic Athletic Lockers.
- B. <u>Class B</u> Fire Rated Phenolic Locker Benches.
- C. Bench Pedestals, <u>Bench Tops and Backs</u>.
- D. Locker Hardware and Accessories.

#### 1.02 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Wall backing and floor support to anchor Lockers and Bench Pedestals.

#### 1.03 REFERENCES

- A. American Society for Testing and Materials:
  - 1. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Material
  - 2. ASTM D6578 Standard Practice for Determination of Graffiti Resistance
  - 3. ASTM D1037 Direct Screw Withdrawal Test
  - 4. ASTM D570 Standard Test Method for Water Absorption
  - 5. ASTM A167, 18-8, Type 304 Cast Stainless Steel
- B. National Fire Protection Association (NFPA).
- C. 2005 LD-3 NEMA Standard Test, Chemical Resistance, Modulus of Elasticity, Shear Strength and Compression Strength.

#### 1.04 QUALITY STANDARDS

- A. Flame Spread: When tested in accordance with ASTM E84, Athletic Lockers, and Locker Bench materials shall meet or exceed all requirements for Class B Flame Spread Rating and Smoke Developed and shall carry a Class B Fire Rating Certification in accordance with the requirements of NFPA and ICC. Class B Fire Rating Certification shall be in the name of the Locker Manufacturer and shall be less than six (6) months old.
  - 1. Flame Spread shall not exceed 75.
  - 2. Smoke Developed shall not exceed 450.
- B. Locker Doors: Locker Door shall be the full width of the Locker Body and shall be frameless, allowing access to the entire width of the Locker. Framed Doors are



unacceptable. Perimeter ventilation shall provide superior ventilation properties to traditional framed doors.

- C. Locker Body: Locker Body shall incorporate the Uni-Box® Locker Construction to allow for multiple Locker configurations within the same Locker Body. The Uni-Box® shall incorporate mortise and tenon construction and shall be mechanically fastened with Stainless Steel fasteners. Shelves shall be mortised into side walls of the Uni-Box® and shall be secured with Stainless Steel fasteners.
- D. Graffiti Resistance Requirements: When tested in accordance with ASTM D6578, Locker materials shall prove resistant to all chemicals tested for a period of 1 to 10 minutes and shall leave no mar or blemish on the surface when cleaned. Locker materials shall have guaranteed surface clean ability from permanent markers and shall have Non-Ghosting properties.
- E. Scratch Resistance Requirements: When tested in accordance with ASTM D2197, Locker materials shall prove to be scratch resistant when the maximum Load Value exceeds 10 kilograms.
- F. Impact Resistance Requirements: When tested in accordance with ASTM D2794, Locker materials shall withstand an Impact Force Value in excess of 45 inch-lbs.
- G. Screw Holding Strength: When tested in accordance with ASTM D1037, Direct Screw Withdrawal Test, Locker materials shall withstand a direct pull force that exceeds 2,500 lbs per fastener.
- H. Tensile Strength: Locker materials shall have a Modulus of Elasticity of 1.55 Million PSI.
- I. Shear Strength: Locker materials shall have a Shear Strength of 2,000 PSI minimum.
- J. Compression Strength: Locker materials shall have a Compression Strength of 24,000 PSI minimum.
- K. Water Absorption Requirements: When tested in accordance with ASTM D570 Locker materials shall have a Water Absorption Rate of less than 0.37%.

#### 1.05 SUBMITTALS

- A. Product Data: Submit manufacturer's detailed technical data for materials, fabrication, and installation, including catalog cuts of anchors, hardware, fasteners, and accessories in accordance with Section 01330 Submittal Procedures.
- B. Shop Drawings: Furnish Shop Drawings in quantities requested for fabrication and installation Solid Phenolic Athletic Lockers and Locker Benches. Include plans, elevations, sections, numbering, colors, details, and anchorages/ attachments to other work.
- C. Samples for Initial Selection:
  - 1. Submit <u>color per Finish Legend</u>.
  - 2. Submit certification that materials furnished comply with requirements specified.



- D. Submit two (2) 6" square Samples of each color and finish for color verification after selections have been made.
- E. Maintenance Instructions: Provide manufacturer's printed Instructions for Cleaning and Maintenance of installed Work.
- F. Manufacturer's Written Warranty: Provide manufacturer's Written Warranty as detailed herein.

#### 1.06 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions in areas of installation by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
  - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating units without field measurements. Coordinate supports, adjacent construction, and wall openings to ensure actual dimensions correspond to Established Dimensions.

#### 1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in manufacturer's original packaging to protect from damage.
- B. Store materials in manufacturer's original packaging in accordance with manufacturer's instructions. Store Lockers indoors, protected from the elements and construction hazards.
- C. Handle materials in a manner that will protect the finished product.

#### 1.08 MANUFACTURER'S WARRANTY

A. Provide manufacturer's Twenty (20) year written limited warranty against breakage, corrosion, delamination and defects in workmanship of all Phenolic components; to be replaced without charge, excluding labor.

#### PART 2 – PRODUCTS

#### 2.01 MANUFACTURERS

- A. Columbia Lockers, a division of PSISC, is the basis of design for the solid phenolic Athletic Lockers.
- B. <u>Acceptable alternate manufacturers.</u>
  - 1. Summit Lockers.
  - 2. Hollman Lockers.
- C. Refer to Drawings for locker configurations.



#### 2.02 MATERIALS

- A. Material shall be <u>Class B</u> Fire Rated Solid Phenolic with a High Pressure Melamine matte finish surface made as an integral part of the core material. Laminated surfaces are not acceptable. Surface and edges shall be non-porous and shall not support fungus or bacteria. Provide material which has been selected for uniform color, surface flatness and smoothness. Exposed surfaces which exhibit discolorations, pitting, seam marks, roller marks, stains, telegraphing of core material, or other imperfections on finished units are not acceptable. Defects such as chipping along edges and corners are unacceptable. Columbia Solid Phenolic shall meet or exceed all requirements for Class B Flame Spread Rating and Smoke Developed calculated according to ASTM E84, and shall carry a <u>Class B</u> Fire Rating Certification. <u>Class B</u> Fire Rating Certification shall be in the name of the Locker Manufacturer and shall be less than six (6) months old.
- B. Material Thicknesses:
  - 1. Doors, <u>Slope</u>, <u>Flat</u> Tops, End Panels, and Toe Kick Plates Minimum .50" (13 mm) Finished Thickness.
  - Locker Uni-Box®, Tops, Bottoms, and Shelves Minimum .375" (10 mm) Finished Thickness. Sides and Locker Backs – Minimum .3125" (8 mm) Finished Thickness.
  - 3. Locker Pedestal Benches Minimum .75" (19 mm) Finished Thickness.
  - 4. Locker Bench Tops Minimum .75" (19 mm) Finished Thickness.
- C. Colors: Refer to Finish Legend.
- D. Locker Doors: Locker Door shall be the full width of the Locker Uni-Box® and shall be frameless, allowing access to the entire width of the Locker. Framed Doors are unacceptable. Perimeter ventilation shall provide superior ventilation properties to traditional framed doors. Doors shall be attached to the Hinge with Stainless Steel Theft Proof Torx Head with Pin fasteners.
- E. Locker Body: Locker Body shall incorporate the Uni-Box® Locker Construction to allow for multiple Locker configurations within the same Locker Body. The Uni-Box® shall incorporate mortise and tenon construction and shall be mechanically fastened together with Stainless Steel fasteners. Locker Shelves shall be mortised into side walls of the Uni-Box® at location determined by Architect. Relocation of Shelves in the field shall be possible without the need for special tools or welders. The Hinge shall be attached to the Uni-Box® with Stainless Steel Theft Proof Torx Head with Pin Bolts. Lockers shall arrive at construction site fully assembled.
- F. <u>Slope</u>, <u>Flat</u> Tops, End Panels, and Toe Kick Plates: Shall be manufactured of the same color, thickness and material as the Locker Doors.

#### 2.03 HARDWARE

- A. Locker Hinges: Hinges shall be concealed and shall be made of 14 Gauge Type 304 Stainless Steel and have a Satin finish. Hinge shall have five (5) knuckles and shall allow door to open 90°.
- B. Locker Lock: Provide one (1) Digital Lock as manufactured by Zephyr, Model 6215 for each Locker Door. Users access their locker with a four (4) digit programmable use code. Manager Bypass Keycards shall be provided.



- C. Coat Hooks: Coat Hooks shall be fabricated of 11 Gauge Type 304 Stainless Steel with a Satin Finish. All edges shall be polished and smooth. Coat Hooks shall be attached to the Locker Body with Stainless Steel Theft Proof Torx Head with Pin fasteners or Through Bolts. Provide three (4) Coat Hooks per Locker. Plastic are unacceptable.
- D. Number Plates: Provide a Number Plate for each Door or opening, in the sequence as indicated on the drawings. Number Plate shall be engraved from the back side to prevent the accumulation of dirt and grime.
- E. Locker Legs: Provide Locker Legs for all Lockers. Locker Leg assembly shall be structural and shall be fully adjustable to provide for leveling and plumbing of Locker Body. Provide phenolic Toe Kick Plates with all necessary hardware for attaching to the Locker Leg.
- F. Bench Pedestals: <u>Provide</u> Bench Pedestals, <u>Tops and Backs, bench must comply</u> <u>with ANSI 117.1</u>.
  - 1. Black Powder Coated Aluminum: Bench Pedestal shall be 16.5" High. Center post shall extend from the floor to the bottom of the Bench Top and shall be made of 2" square tubing. Top and bottom plates shall be 6" square and shall be .250" thick and shall be welded to 2" tubing. Bench Pedestals will be secured to floor.
- G. Sliding Clothes Hanger: Hafele, Synergy Elite, Valet #808.71 length shall be 14-1/8". Locate in ADA lockers at 3'-10" above finished floor and as shown on the Drawings. Finish is matte chrome.

#### 2.05 FABRICATION

A. General: Provide factory pre-assembled Locker units. Lockers shall be complete with all hardware and accessories listed above. Knock down units are unacceptable.

#### PART 3 – EXECUTION

#### 3.01 SITE INSPECTION

- A. Verify that field dimensions are in accordance with Locker Shop Drawings. Inspect walls to insure that they are plumb and suitable for the installation of the Lockers.
- B. Check location of built up bases, built in framing or blocking, and wall openings to insure that they are in compliance with the approved Locker Shop Drawings.
- C. Have any inappropriate conditions corrected before beginning installation.

#### 3.02 INSTALLATION

A. Comply with manufacturer's written installation instructions. Install Lockers rigid, straight, plumb, and level.



- B. Through Bolt Locker Boxes together with Stainless Steel Theft Proof Torx Head with Pin, Through Bolts.
- C. Anchor Locker Boxes to the wall with provided anchor devices.
- D. Install Flat Tops, End Panels, Filler Strips and accessories in accordance with written instructions.

#### 3.03 ADJUSTING AND CLEANING

- A. Hardware Adjustment: Adjust hardware according to manufacturer's written instructions for proper operation.
- B. Provide final protection and maintain conditions that ensure Lockers are without damage or deterioration at the time of substantial completion. Clean all exposed surfaces of Lockers and hardware.

#### **END OF SECTION**



#### SECTION 11 40 00 - FOODSERVICE SPECIFICATIONS

#### Section Record:

Issued: Addendum 02 – December 12<sup>th</sup>, 2019

Issued: 100% Construction Documents dated November 15<sup>th</sup>, 2019

#### PART 1 - GENERAL

#### 1.1 SCOPE

- A. The work referred to in this section consists of furnishing all labor and material required to provide and deliver all equipment hereinafter specified into the building, uncrate, assemble, hang, set in place, level, and completely install, exclusive of final utility connections.
- B. Coordinate but do not install (unless specifically directed to do so in the technical specifications) Owner and Vendor-supplied equipment noted on the drawings or in the specifications as NIKEC. Show on roughing in plans the sizes, utilities, and other requirements as furnished in the Specifications, by Owner or appropriate supplier in submittals as if the equipment is contractor furnished.
- C. Coordinate and show sizes, utilities, and other requirements as determined by physical inspection for equipment noted as existing to be reused. Include costs for marking, removing, storing, cleaning, redelivering and installing such equipment. All requirements within the project manual apply to reused equipment except warranty as if contractor furnished including but not limited to code compliance and accessories necessary to conform with the new application.
- D. Should there be any discrepancies or inconsistencies that occur between the foodservice drawings and specifications, request written clarification; provide the better quality, and the greater quantity of work or material without any additional costs to the owner. The kitchen equipment contractor is responsible for any costs incurred by failure to clarify any conflicting requirements.
- E. Secure and pay fees for permits, test, and inspections required by all authorities having jurisdiction and directly related to the construction and installation of the 11 40 00 foodservice equipment work.
- 1.2 RELATED SECTIONS / WORK IN THE MECHANICAL AND ELECTRICAL DIVISIONS:
  - A. Refer to the mechanical/plumbing divisions regarding mechanical services including, but not limited to, all water, gas, and steam rough-ins, pressure regulating valves, check valves, shut-off valves, grease traps, steam traps, drain traps, vents, valves, floor sinks, faucets, drains, floor

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drains, duct work, pipes and pipe fittings, and all other materials required to complete final connections to the foodservice equipment. Additional work not included in the 114000 scope; G.C. to coordinate and provide:

- 1. Hood and ventilator duct work and fans upstream from the connection positions
- 2. Installation of floor troughs, including set-in place and final connections.
- B. Refer to the electrical divisions regarding electrical services including, but not limited to, all electrical rough-ins, standard and low voltage wiring, drop cords, disconnects, breakers, shunt trip breakers, and all other materials required to complete final connections to the foodservice equipment. Additional work not included in the 114000 scope; G.C. to coordinate and provide:
  - 1. Installation of the light fixtures furnished loose for the walk-in coolers/freezers
  - 2. Wiring of the exhaust hood controls including, but not limited to, all low voltage interconnections.
  - 3. Connection of hood fire suppression system building alarm system
  - 4. Connection of walk-in cooler/freezer temperature alarm system to the building alarm system.
- C. Additional work not included in the 11 40 00 Section Additional work not included in the 114000 scope; G.C. to coordinate and provide:
  - 1. Slab depressions for walk-in coolers/freezers, floor troughs, and other applicable foodservice equipment.
  - 2. Wall backing to support wall mounted foodservice equipment
  - 3. Concrete pads for outdoor equipment such as refrigeration racks, compressors, etc.
  - 4. Roof rails, roof curbs, pitch pockets, coring, flashing, and fire stopping required for roof top foodservice equipment and related refrigeration piping.

#### 1.3 SUBMITTALS

- A. Upon award of Contract, furnish the Architect with reproducible copies of the following drawings, in accordance with the approved project schedule, which shall be made on sheets equal in size and matching the bid set drawing size. Reproduced copies of bid documents will not be accepted for this purpose in any fashion.
  - 1. Equipment specified for fabrication shall be detailed and fully dimensioned to a minimum scale of 3/4" = 1'-0" (1:20) for plan and elevation views and 1-1/2" = 1'-0" (1:10) for sections.
  - 2. Prepare separate electrical and mechanical dimensioned rough-in drawings at 1/4" = 1'-0" (1:50) showing exact point of penetration of floors, walls, and ceilings for all services required to operate the equipment that the Contractor shall furnish, including the requirements for Contractor supplied and installed refrigerant and beverage piping line runs. These drawings shall also show exact locations of final connections to equipment. Indicate floor drains, floor sinks, receptacles, lights, and other special conditions related to the equipment known to the Contractor but provided under other Sections.
  - 3. Dimensioned drawings shall be submitted showing the location and size of all bases, depressions, grease interceptors, special height walls, openings in walls for equipment or operations, and critical dimensions, etc. Drawings shall be drawn to a scale of not less than 1/4" = 1'-0" (1:50).

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- B. Manufacturers' Data: Upon award of Contract, submit bound copies of Manufacturers' Illustrations and Technical Data to the Architect for review prior to procurement. Items of Standard Manufacture shall be submitted, including items purchased to be built into fabricated equipment. Each illustration shall be marked to describe accurately the item to be furnished as specified, including voltage, phase, load, accessories, etc.
- C. Manufacturers' List: Submit in writing a list of all manufacturers' representatives of the foodservice equipment, such as convection ovens, ranges, etc., and their authorized service agencies' addresses and telephone numbers.
- D. Foundation Data: Data and drawings shall be submitted for each item, if any, requiring special foundations, structures, or supports. Such foundations, structures, or supports will be provided and installed by other appropriate trades in accordance with the drawings and specifications which shall be provided by the Contractor and reviewed by the Architect.
- E. Operation and Maintenance Manuals: Provide three bound copies of operation, maintenance, and parts manuals for all equipment items of standard manufacture including standard component assemblies built into all custom-fabricated items.
- F. Review by the Architect of the drawings and brochures submitted by the Contractor does not waive the responsibility of the Contractor to furnish each item of equipment in complete compliance with the specifications and contract drawings.
- G. The number of copies of all submittals shall be as determined by the Architect.
- H. Samples: Samples of materials, products, and fabrication methods shall be submitted for review at no additional cost, before proceeding with the work.

#### 1.4 QUALITY ASSURANCE

- A. Standard Products: Materials, products, and equipment furnished under this contract shall be the standard items of manufacturers regularly engaged in the production of such materials, products, and equipment and shall be of the manufacturers' latest design that complies with the specifications.
- B. Manufacturers' Qualifications: Manufacturers shall be regularly engaged in the production of the items furnished and shall have demonstrated the capability to furnish similar equipment that performs the functions specified or indicated herein.
- C. Installation Qualifications: Contractor shall use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work defined in this Section.
- D. Coordination of Work: Coordinate work with the respective trades performing preparatory work for installation of equipment under this Contract, including, but not limited to: construction of

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pits, trenches, receptors; rough-in of supply, waste and vent piping; electrical connections; and field verification of dimensions.

- E. Product Options: Drawings indicate foodservice equipment based upon equipment specified herein. All substitutions shall be in compliance with the requirements in Division 1 (or Section I if appropriate.).
- F. Conflict: Where written specifications and drawings conflict or appear to conflict, request clarification. Prior to receiving clarification use the greater quality or greater quantity.

### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver foodservice equipment in containers designed to protect equipment and finish until final installation. Make arrangements to receive equipment at project site at a time and place agreed with the General Contractor. If the site is not ready for delivery, then either delay delivery or arrange to hold in a secure and protected warehouse until delivery can be made to job site.
- B. Store foodservice equipment in original containers and in location to provide adequate protection to equipment while not interfering with other construction operations. Coordinate with other trades so that worktables, serving counters and equipment are not used for scaffolding or as workbenches.
- C. Handle foodservice equipment carefully to avoid damage to components, enclosures, and finish. Do not install damaged foodservice equipment; replace and return damaged components to equipment manufacturer.

#### 1.6 APPLICABLE CODES AND STANDARDS

- A. Except as otherwise indicated, each item of equipment shall comply with the latest current edition of the following standards as applicable to the manufacture, fabrication, and installation of the work in this section. Comply with all Federal, State, and Municipal regulations and notifications which bear on the execution of this work. Call to the attention of the Owner in writing any design conflict with the requirements of the Americans with Disabilities Act (ADA) during Bid Process so resolution can be affected prior to Contract Award.
  - 1. NSF Standards: Comply with applicable National Sanitation Foundation standards and criteria and provide NSF "Seal of Approval" on each manufactured item and on major items of custom-fabricated work.
  - UL / ETL / CSA Standards: For electrical components and assemblies, provide either UL / ETL / CSA listed products or, where no listing service is available, provide a complete index of the components used as selected from the UL / ETL / CSA "Recognized Component Index." For fire extinguishing systems comply with UL 300.
  - 3. ANSI Standards: Comply with applicable ANSI standards for electric-powered and gas-burning equipment; for piping to compressed-gas cylinders; and for plumbing fittings, including vacuum breakers and air gaps, to prevent siphonage in water piping.

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- 4. AGA / CGA: All gas-fired equipment shall be AGA / CGA approved, equipped to operate on the type gas available at the job site, and shall contain 100% automatic safety shut-off devices.
- 5. NFPA Standards: Comply with NFPA Bulletin 96 for exhaust systems; with NFPA Bulletins 13, 17, 17A and 96 for fire extinguishing systems; and with NFPA 54, National Fuel Gas Code and NFPA 70, National Electrical Code.
- 6. ASME Code: Comply with ASME boiler code requirements for steam-generating and steam-heated equipment; provide ASME inspection, stamps, and certification of registration with National Board.
- SMACNA Guidelines: Provide seismic restraints for food service equipment to comply with the Sheet Metal and Air Conditioning Contractors National Association's (SMACNA) "Kitchen Equipment Fabrication Guidelines", appendix 1, "Guidelines for Seismic Restraints of Kitchen Equipment", unless otherwise indicated.
- 8. ASHRAE: Provide mechanical refrigeration systems complying with the American Society of Heating, Refrigerating and Air Conditioning Engineers' ASHRAE 15, "Safety Code for Mechanical Refrigeration".

### 1.7 PROJECT CONDITIONS

- A. Visit the job site to field check actual wall dimensions and roughing-in and be responsible for furnishing, fabricating, and installing the equipment in accordance with the available space and utility services as they exist on the job site for an accurate fit.
- B. Check all door openings, passageways, elevators, etc., to be sure that the equipment can be conveyed to its proper location within the building and, if necessary, check with the Contractor regarding the possibility of holding wall erection, placement of doorjambs, windows, etc., for the purpose of moving the equipment to its proper location. Any removal and rebuilding of walls, partitions, doorjambs, etc., necessary to place the equipment or, if caused by incorrect information on the Contractor's drawings, shall be done at the expense of the Contractor.
- C. Physically check the location and utility size of all "rough-ins" at the job site for compatibility with the equipment being installed before finished floors, walls, and/or ceilings are in place.
- D. Check electrical characteristics and water, steam, and gas pressure. Provide pressureregulating valves where required for proper operation of equipment.

### 1.8 GUARANTIES AND WARRANTIES

A. Self-contained or remote refrigeration systems furnished under this Contract shall be provided with start-up and a one-year service contract providing free service, 24 hours per day, seven days per week, including parts and labor. Hermetic or semi-hermetic compressors shall be covered by the manufacturers' factory warranty for an additional four years. Other equipment provided shall include a one-year warranty covering parts and labor, plus any extended warranties as normally provided by individual manufacturers. Equipment including refrigeration systems both self-contained and remote shall be warranted by the Contractor on the project for

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one year as indicated in the preceding sentence. The first day of the first year commences upon the issuance of a certificate of occupancy for each area.

### PART 2 - PRODUCTS

### 2.1 GENERAL

- A. The equipment and its component parts shall be new and unused. All items of standard manufactured equipment shall be current models at the time of delivery. Parts subject to wear, breakage, or distortion shall be accessible for adjustment, replacement, and repair.
- B. Means shall be provided to ensure adequate lubrication for moving parts. Oil holes, grease fittings, and filler caps shall be accessible without the use of tools.
- C. The design of the equipment shall be such as to provide for safe and convenient operation. Covers or other safety devices shall be provided for all items of equipment presenting safety hazards. Such guards or safety devices shall not present substantial interference to the operation of the equipment. Guards shall provide easy access to guarded parts.
- D. Trim shall not be an acceptable substitute for accuracy and neatness. When trim is required and accepted by Architect in lieu of rejection of items of equipment, it shall be the Contractor's responsibility to provide same at no additional cost.
- E. Unless otherwise specified herein, no material lighter than #20 gauge shall be incorporated into the work. Gauges for sheet iron and sheet steel shall be U.S. Standard Gauges and finished equipment gauge thickness shall not vary more than 5% plus or minus from the thickness indicated below.

GAUGE	THICKNESS	GAUGE	THICKNESS
#10	0.1406" (3.0mm)	#16	0.0625" (1.6mm)
#12	0.1094" (2.5mm)	#18	0.0500" (1.25mm)
#14	0.0781" (2.0mm)	#20	0.0375" (1.0mm)

F. Materials or work described in words which have a well-known and accepted technical or trade meaning shall be held to refer to such accepted meanings.

## 2.2 MATERIALS

- A. Submit a certified copy of the mill analysis of materials if requested by the Architect.
- B. Stainless steel sheets shall conform to American Society for Testing and Materials (ASTM) specification A240, Type 304 Condition A, 18-8, having a No. 4 finish. A No. 2B finish shall be acceptable on surfaces of equipment not exposed to view. Sheets shall be uniform throughout in color, finish, and appearance.
- C. Stainless steel tubing and pipe shall be Type 304, 18-8, having a No. 4 finish, and shall conform to either ASTM A213 if seamless or ASTM A249 if welded.

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- D. Rolled shapes shall be of the cold-rolled type conforming to ASTM A36.
- E. Galvanized sheet steel shall conform to ASTM A526; where extensive forming to take place, conform to ASTM A527; conform to ASTM A525, coating designation G115, chemical treatment.
- F. Galvanized steel sheets shall be cold-rolled, stretcher leveled, bonderized, and rerolled to ensure a smooth surface.
- G. Castings shall be corrosion-resisting metal containing not less than 30% nickel. Castings shall be rough ground, polished, and buffed to bright luster and free from pit marks, runs, checks, burrs, and other imperfections. In lieu of corrosion- resisting metal castings, die-stamped or cast 18-8 stainless steel will be acceptable.
- H. Millwork materials shall be free from defects impairing strength, durability, or appearance; straight and free from warpage; and of the best grade for their particular function. Wood shall be well seasoned and kiln dried and shall have an average moisture content of 8%, a maximum of 10%, and a minimum of 5%.
  - 1. Plywood and other woodwork of treatable species, where so required by the code, shall be fire-retardant treated to result in a flame spread rating of 25 or less with no evidence of significant progressive combustion when tested for 30 minutes duration under ASTM E84 and shall bear the testing laboratory mark on a surface to be concealed.
  - 2. Concealed softwood or hardwood lumber shall be of poplar, Douglas fir, basswood, red oak, birch, maple, beech, or other stable wood and shall be select or better grade, unselected for color and grain, surfaced four sides, square-edged, and straight. Basswood may be used where fire-retardant treated materials are required.
  - 3. Plywood for transparent finish shall conform to U.S. Product Standard PS-51-71, Type I (fully waterproofed bond), with architectural grade face veneers of species as specified, free of all pin knots, patches, color streaks and spots, sapwood, and other defects. Plywood designated to have plywood cores shall be of either 5 ply or 7 ply construction. Plywood so designated on the drawings and plywood not otherwise shown shall have a particle board core, cross banding of veneers, and face and back veneers. Particle board cores shall have a 45-pound density, except where the fire-retardant treatment requires cores of lesser density.
  - 4. Face veneers shall be matched for color and grain to produce balance and continuity of character. Mineral streaks and other discolorations, worm holes, ruptured grain, loose texture, doze, or shake will not be permitted. Face veneer leaves on each surface shall be full-length, book matched, center matched, and sequence matched. Surfaces shall be sequenced and blueprint matched. Veneers not otherwise indicated shall be plain sliced. Backing veneers for concealed surfaces shall be of a species and thickness to balance the pull of the face veneers.
  - 5. Hardwood plywood for painted surfaces shall conform to U.S. Product Standard PS-51-71, Type I, and shall have sound birch, maple, or other approved close grain hardwood faces suitable for a paint finish.

- 6. Perforated hardboard shall be a tempered hardboard, 1/4" (6 mm) thick, conforming to Federal Specification LLL-B-810B, Type I, SIS, Finish B (primed), Design B (perforated), with 1/4" (6 mm) diameter holes spaced on 1" (25 mm) centers both ways.
- 7. Plastic laminate surfaces shall be laminated with thermosetting decorative sheets of the color, pattern, and style as selected by the Architect. Horizontal surfaces shall be laminated with sheets conforming to Federal Specification L-P-508F, Style D, Type I (general-purpose), Grade HP, Class 1, 1/16" (2 mm) thick, satin finish, with rough sanded backs. Vertical surfaces shall be laminated with sheets conforming to Federal Specification L-P-598F, Style D, Type II, (vertical surface), Grade HP, Class 1, non-forming, satin finish, 1/32" (1 mm) thick or heavier. Surfacing for curved surfaces shall be laminated from sheets conforming to Federal Specification L-P-508F, Style D, Type III (post-forming), Grade HP, Class 1, satin finish. Balance sheets for backs in concealed locations shall be either reject material of the same type and thickness as the general-purpose grade facing or may be .020" (0.5 mm) thick laminate backing sheets conforming to Federal Specification L-P-00508E, Style ND, Type V (backing sheet), Grade HP.
- 8. Adhesive for application of plastic laminate to wood substrates of counter tops shall be a phenolic, resorcinol, or melamine adhesive conforming to Federal Specification MMM-A-181C and producing a waterproof bond. Adhesive for applying plastic laminate to vertical surfaces shall be either a waterproof type or a water-resistant type such as a modified urea- formaldehyde resin liquid glue conforming to Federal Specification MMM-A-188C. Contact adhesive will not be acceptable.
- 9. Plywood for laminate assemblies shown or specified with plywood core shall be of the 5 or 7 ply construction with sanded close-grain hardwood face and back veneers, laminated with waterproof glue, in thickness shown, conforming to U.S. Product Standard PS-51-71. Particle board for plastic laminate assemblies shown or specified with particle board wood core shall conform to U.S. Products Standard CS-236-66, Type 1 or 2, Grade B (45-pound density), Class 2; except where fire-retardant treatment is required, the density shall conform to the treatment requirements.
- I. Sealant: ASTM C 920; type S, Grade NS, Class 25, use, NT. Provide elastomeric sealant, NSF certified for end use application indicated. Provide sealant that, when cured and washed, meeting requirements of Food and Drug Administration's 21 CFR, Section 177.2600 for use in areas that come in contact with food. Dow-Corning #780 or General Electric "Silastic" or approved equal in either clear or approved color to match surrounding surfaces and applied in accordance with sealant manufacturers' recommendations for smooth, sealed finish.
- J. Tempered Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated surfaces), Type I (transparent), Class 1 (clear), Quality q3 (glazing select). Provide products complying with ANSI Z97.1, manufactured by horizontal (roller hearth) process and ¼" (6 mm) thick, unless otherwise indicated. Provide exposed safety edges, if any, seamed before tempering.
- K. Sound Dampening: NSF-certified, nonabsorbent, hard-drying, sound deadening coating. Provide coating compounded for permanent adhesion to metal in 1/8" (3 mm) thickness that does not chop, flake, or blister.

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## 2.3 FINISHES

- A. Paint and coatings shall be of an NSF approved type suitable for use in conjunction with foodservice equipment. Such paint or coating shall be durable, non-toxic, non-dusting, non-flaking, and mildew resistant; shall comply with all governing regulations; and shall be applied in accordance with the recommendations of the manufacturer.
- B. Exterior, galvanized parts, exposed members of framework, and wrought steel pipe where specified to be painted shall be cleaned, properly primed with rust-inhibiting primer, degreased, and finished with two (2) coats of epoxy-based grey Hammertone paint, unless otherwise specified.
- C. Stainless steel, where exposed, shall be polished to a #4 commercial finish. Where unexposed, finish shall be #2B. The grain of polishing shall run in the same direction wherever possible. Where surfaces are disturbed by the fabricating process, such surfaces shall be finished to match adjacent undisturbed surfaces.
- D. Galvanized shelving shall not be painted.
- E. Fabricated equipment shall be spray coated with plastic suitable for protecting the equipment during transport and installation. The coating shall be easily removable and shall be removed after the equipment installation is complete at the work site or, alternatively, when directed by the Architect.
- F. Exposed surfaces on brass, bronze, or steel shall be plated with chromium over nickel in accordance with Federal Specifications WW-P-541, Paragraph 9.5 and Table 9.4, unless otherwise specified.

### 2.4 ELECTRICAL AND MECHANICAL REQUIREMENTS

- A. Standard UL / ETL / CSA listed materials, devices, and components shall be selected and installed in accordance with NEMA Standards and recommendations and as required for safe and efficient use and operation of the foodservice equipment without objectionable noise, vibration, and sanitation problems.
  - 1. Provide recognized commercial grade signals, "on-off" pushbuttons or switches, and other speed and temperature controls as required for operation of each item, complete with pilot lights and permanent engraved, plastic laminate signs and graphics identifying each item. Provide stainless steel cover plates at controls and signals.
  - 2. Each item requiring electrical power shall be equipped with either a terminal box for permanent connection or with cord and plug for interruptible connection, as indicated. Provide NEMA standard grounding type plugs, where used.
  - 3. Furnish foodservice equipment completely wired internally using wire and conduit suitable for a wet location, including a separate grounding wire. Provide electrical outlets and receptacles required to be mounted on or in fabricated equipment and interconnect to a suitable terminal box (subpanel, starter, or disconnect switch if so specified) with all wires neatly tagged showing item number, voltage characteristics, and load information.

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- 4. Receptacles for all wall- and floor-mounted outlets will be provided to be used for plug-in equipment with characteristics as noted on the drawings. Provide Hubbell three-wire or four-wire grounding-type connectors and neoprene cords installed on each item of plug-in equipment to match receptacles provided.
- 5. Electrically heated equipment shall be internally wired to a thermostatic control and an "on-off" red neon light indicator, which shall be mounted in a terminal box on a removable stainless steel access panel.
- 6. Only rigid steel zinc-coated conduit shall be used, painted to match adjacent surfaces where exposed. Wiring shall be run concealed wherever possible.
- 7. Provide on, or for, each motor-driven appliance or electrical heating or control unit, a suitable control switch or starter of the proper type and rating.
- 8. Appliances shall be furnished complete with motors, driving mechanism, starters, and controllers, including but not limited to, master switches, timers, cut-outs, reversing mechanism, and other electrical equipment if and as applicable. Wiring and connection diagrams shall be furnished with electrically operated machines and for electrically wired fabricated equipment.
- 9. Appliances shall be of rigid construction, free from objectionable vibration. Quietness of operation of all foodservice equipment is a requirement. Remove or repair any equipment producing objectionable noise and/or vibration as directed by the Architect.
- 10. Motors shall be of the drip-proof, splash-proof, or totally enclosed type, having a continuous duty cycle and ball bearings, except small timing motors which may have sleeve bearings. Motors shall have windings impregnated to resist moisture. Motors located where subject to deposits of dust, lint, or other similar matter from the machine on which installed shall be of the totally enclosed type. Motors shall have ample power to operate the machines for which designated under full load operating conditions without exceeding their nameplate ratings. Horsepower requirements on driven equipment shall be determined by the manufacturer based on normal operation at maximum capacity. The nominal rated motor horsepower shall be not less than the horsepower required for normal operation of the equipment at maximum capacity. Insulation shall be NEMA Class B, or better.
- 11. Cover plates shall be furnished and installed for all electrical outlets, receptacles, switches, etc., to match the material and finish of the equipment to which they will be fastened.
- 12. Switches, controls, etc., shall be conspicuously labeled as to use with plastic nameplates secured to the adjacent surface as previously specified in Article 2.01-C. Submit a sample for approval if requested by Architect.
- 13. Where specified for custom fabricated equipment, provide compartment with electrical sub-panel which shall be pre-wired in conduit concealed in cabinet body construction and connected to all electrical components built into or set upon the counter. Electrical sub-panel shall be UL / ETL / CSA listed, 3-phase, 4-wire circuit breaker type with a ground buss main breaker and individual breakers for each serviced load. Buss shall be copper and the circuit breakers shall be the molded case, bolt-on type with thermomagnetic quick-make, quick-break trip. Multi-pole circuit breakers shall have an internal trip bar. The circuit breakers shall have an interrupting capacity of 10,000 amperes at 120 volts and there shall be a separate breaker for each connected load. Each breaker shall be sized for 125% of the connected load and a minimum of two (2) extra, single pole, 20

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amp circuit breakers shall be provided. The loads shall be connected through the breakers in a phased sequence to balance the load on each phase.

- B. Water inlets shall be located above the positive water level wherever possible to prevent siphoning of liquids into the water supply system. Wherever conditions shall require a submerged inlet, a suitable type of check valve (except in jurisdictions where check valves are prohibited) and vacuum breaker shall be provided with the fixture to prevent siphoning. Where exposed, piping and fittings shall be chrome-plated. Where vacuum breaker piping is through equipment, provide chrome -plated escutcheon plates to cover holes.
  - 1. Provide and install indirect waste lines from equipment which will discharge into floor drains or safe wastes, chrome-plated where exposed. Extend to a point at least 1" (25 mm) (or as required by local or state code) above the rim of the floor drain, cut bottom on 45-degree angle and secure in position.
  - 2. Horizontal piping lines shall be run at the highest possible elevation and not less than 6" (150 mm) above the floor, through equipment where possible.
  - 3. No exposed piping in or around fixtures or in other conspicuous places shall show tool marks or more than one thread at the fitting.
  - 4. Steam operating valves on or in fabricated and purchased foodservice equipment shall be provided with composition hand wheels, which shall remain reasonably cool in service.
  - 5. Provide suitable gas and liquid pressure-reducing valves for equipment with such components that might reasonably be expected to be affected over a period of time by adverse pressure conditions, including but not limited to dishwashers, booster heaters, coffee urns, ranges, steam boilers, etc.
- C. Provide and install complete refrigeration systems--charged, started, and operating properlyincluding, but not limited to: compressors, condensers, racks, coils, vibration eliminators, sight glasses (moisture indicating type), expansion valves, filters, oil separators, thermostats, defrost time clocks, all controls and control wiring, liquid line driers, piping, and refrigeration grade copper tubing with all sweat joints using Safety-Silv No. 1200 or approved equal silver solder (with as few joints as possible)
  - 1. Where specifications call for pre-piped lines (i.e., from a fixture to a valve compartment, etc.), provide such work in strict conformance with other sections of the specifications which set forth standards for this type of work or in conformity with the requirements of the ASHRAE Standards or local authorities, whichever is the greater.
  - 2. Mechanically refrigerated cold pans shall have a normally closed liquid line electric solenoid valve installed before the expansion valve and wired to a silent-type toggle switch complete with an "on-off" red neon light indicator and both mounted in a terminal box on a removable access panel. This switch shall be fed by a separate control circuit and shall not to be wired into the compressor circuit so that it shall stop the flow of refrigerant to the cold pan and not turn off the compressor. The compressor shall then pump down and turn off through the action of the pressure control.
  - 3. Each refrigeration item specification is written to provide minimum specifications and scope of work. Refrigeration equipment shall be designed and installed to maintain the following general temperatures unless otherwise specified.
    - a. Walk-In Refrigerators 1.7°C / 35°F

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b.	Walk-In Freezers	-23.3°C / -10°F
C.	Reach-In Refrigerators	1.7°C / 35°F
d.	Reach-In Freezers	-23.3°C / -10°F
e.	Undercounter Re-	1.7°C / 35°F
	frigerators	
f.	Undercounter Freezers	-23.3°C / -10°F
g.	Cold Pan	-17.8°C / 0°F
h.	Work Rooms	10°C / 50°F

- 4. Provide electrical and refrigeration components needed by the completed system and complete all refrigeration and control connections of and to said components.
- 5. Provide evaporator coil defrost system on all walk-in refrigerator and freezer rooms where the refrigeration systems are designed to operate at room temperature of less than 35°F (1.7°C).
- 6. Verify the requirements of and provide any or all additional refrigeration specialty(s) or component(s) required or recommended by the manufacturer for proper operation under the specific operating conditions and location of each system specified.
- 7. Verify and provide manufacturer's certification (or certification by manufacturer's authorized agent) that the equipment selection hereinafter specified for each refrigeration system is properly sized and shall meet the operating requirements set forth for each system regarding maintaining specified operating temperature, hours of compressor running time, and system pressures and velocities as recommended by the equipment manufacturer(s).
- 8. During check-out and initial operation, verify that:
  - a. Controls are properly adjusted.
  - b. Condensers are equipped with an overload protector.
  - c. A competent service mechanic is on site during the first eight (8) hours of operation.
  - d. Switches, starters, and controls are identified as to function.
- 9. Unless otherwise specified, furnish thermometers for walk-in units mounted above the exterior entrance door with suitable length armored capillary tubes to allow the sensing bulbs to be installed in the incoming air stream to the blower coil with runs fastened to the walk-in walls to prevent it from damage. This identical requirement applies to alarm systems when specified.

# 2.5 PRODUCT SPECIFICATIONS

A. Refer to Part 4 for complete itemized product specifications.

### PART 3 - EXECUTION

### 3.1 INSTALLATION

A. Begin installing the equipment at the time the building is ready to receive the equipment and in accordance with the schedule.

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- B. Provide a competent foreman or supervisor for erection of equipment and to coordinate with other trades regarding connections, installation, and inspection. Coordinate delivery schedule to ensure adequate openings in the building to receive the equipment.
- C. Install refrigeration work in an approved manner, using first quality fittings, controls, valves, etc. Refrigeration items shall be started up, tested, adjusted, and turned over to the Architect in first-class condition and left operating in accordance with the manufacturer's specifications.
- D. Set equipment that rests on masonry bases level onto a bed of silicone rubber sealant.
- E. Seal equipment that butts to a wall or against other equipment with silicone rubber sealant. Set trim strips or other items requiring fasteners in a bed of silicone rubber sealant and fastened with suitable stainless steel fasteners 48" (1200mm) or less on centers. , surfaces shall be thoroughly clean and degrease all surfaces prior to the application of sealant.
- F. Install and interconnect electrical controls, switches, or other units which are separately furnished for field installation in or on equipment provided, unless otherwise specified.
- G. Install and wire refrigeration systems in strict conformance with the manufacturers' instructions and recommendations. Ensure that all refrigeration condensing units are ventilated properly and are accessible for repair, maintenance, and inspection.
- H. Hang evaporator coils per the manufacturer's recommendation at the locations as shown on the drawings. Mount units such that the drain pans are pitched to the drain lines. Hang the coils using nylon or other approved non-conductive, non-corrosive fasteners Furnish #12 gauge galvanized steel fish plates of suitable size and shape on the exterior ceiling of the walk-in to spread the weight of the coils adequately. Connect coils to the condensing unit and install to constitute a complete working system capable of maintaining the interior temperatures specified regardless of the heavy usage the walk-in units may receive.
- I. Furnish and install a copper or PVC drainline painted silver from each coil outlet to a point 1" (25mm) above the floor drain. Trap drainlines immediately above the floor drain. Provide continuous electrified heater tape for freezer drainlines, coordinate electrical requirements and wiring with electrical division. Insulate drainline after installation.
- J. Refrigeration tubing shall be the Type L, ACR hard drawn degreased, sealed copper and shall be installed with horizontal runs sloped 1" per 20 feet (1:240) toward the condensing units. Refrigerant piping shall be properly supported by adjustable hangers spaced and adjusted to the drop required. Where vertical runs of more than 5' (1500mm) occur in the suction line, trap the risers at the bottom. Install piping so that refrigerant or oil cannot drain back into the coils from the suction line.
- K. Insulate suction and refrigerant lines with minimum 1/2" (13mm) Armstrong armaflex or equal cellular type insulation. Provide metal pipe sleeves where piping passes through a wall, ceiling, or floor. Fill space around the tubing with mastic insulating compound. Install a permanent suction line filter in each compressor suction line with pressure fitting ahead of the filter to



facilitate checking of pressure drop through the filter. Fully insulate and seal penetrations through walk-in cooler or freezer structures to be vapor tight to prevent condensation within any light fixtures, switch boxes, junction boxes, or any other fittings. Fully seal refrigeration and drain lines and provide escutcheon plates.

- L. Furnish and completely install a thermostat to control the refrigeration temperatures for each individual compartment.
- M. Mount the condensing units on a welded steel rack containing all accessories and components necessary to form a complete condensing unit package. Provide each condensing unit with a factory mounted, pre-wired control panel/disconnect switch complete with circuit breakers, contactors, and time clocks as required.
- N. Furnish the refrigeration systems with a one-year refrigeration service contract, covering all parts and labor, with service available seven days per week, 24-hours per day. Provide an option for continuation of the service contract after the first year.. Warrant the refrigeration system for one year and provide the compressors with the manufacturer's extended five-year warranty.
- O. Furnish four (4) copies of complete remote refrigeration system control wiring and piping diagrams. Frame one (1) copy in Plexiglas and mount at compressor location or inside the refrigeration system enclosure as appropriate.
- P. Coordinate the equipment work with the respective work of other Sections so that electrical and mechanical components built into the equipment will conform and/or adapt to the type, materials, and characteristics of the building components.
- Q. Install heated and motor-driven equipment so as to operate efficiently. Provide additional vents, guards, deflectors, and other accessories as needed at no additional cost. Note such additions or modifications on the shop drawings and bring to Architect's attention by special accompanying letter.

#### 3.2 FABRICATION

- A. Items of fabricated equipment shall be fabricated in the same factory and shall be similar in construction details, materials, methods, and appearance to similar types of items so fabricated under this contract.
- B. Each fabricated item of equipment shall include necessary reinforcing, bracing, and welding with the proper number and spacing of uprights and cross members for strength. Wherever standard sheet sizes will permit, the tops of all tables, shelves, exterior panels of cabinet type fixtures, and doors and drainboards shall be constructed of a single sheet of metal. Except where required to be removable, flat surfaces shall be secured to vertical and horizontal bracing members by welding or other approved means to eliminate buckle, warp, rattle, and wobble. Equipment not braced in a rigid manner and which is subject to rattle and wobble shall be unac-

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ceptable, and the Contractor shall add additional bracing in an approved manner to achieve acceptance.

- C. Suitable pipe slots shall be provided on fabricated equipment to accommodate service and utility lines and mechanical connections. These slots shall be of proper size and shall be neatly made with turned up edges around to eliminate cutting or defacing of equipment on the job. Cabinet bases shall be provided with an inner panel duct at the ends or rear of the cabinet allowing adequate space to conceal vertical piping. Such work, when performed at the job site, shall be of the same quality as similar work performed in the shop.
- D. Exposed surfaces shall be free from bolt and screw heads. When bolts are required, they shall be of the concealed type and be of similar composition as the metal to which they are applied. Where bolt or screw threads on the interior of fixtures are visible or may come into contact with hands or wiping cloths, they shall be capped with a stainless steel acorn nut and stainless steel lock washer.
- E. Where screw threads are not visible or readily accessible, they shall be assembled with stainless steel lock washers and nuts. Wherever bolts or screws are welded to the underside of trim or tops, the reverse side of the weld shall be finished uniformly with the adjoining surfaces. Depressions at these points shall not be acceptable.
- F. Rivets shall not be permitted in any location.
- G. Welding shall be the heliarc method with welding rod of the same composition as the sheets or parts welded. Welds shall be complete, strong, and ductile with excess metal ground off and joints finished smooth to match adjoining surfaces. Welds shall be free of mechanical imperfections such as gas holes, pits, cracks, etc., and shall be continuously welded so that the fixtures shall appear as one piece construction. Butt welds made by spot solder and finished by grinding shall not be acceptable.
  - 1. Spot welds shall have a maximum spacing of 3" (75mm). Tack welds shall be of at least 1/4" (6mm) length of welding material at a maximum space of 4" (100mm) from center to center. Weld spacing at the ends of the channel battens shall not exceed 2" (50mm) centers.
  - 2. In no case shall soldering be accepted.
  - 3. Fixtures shall be shop fabricated of one piece and shipped to the job completely assembled wherever possible. Equipment too large to transport or enter the building as one piece shall be constructed so that the field joints can be welded at the job site.
  - 4. Exposed joints shall be ground flush with adjoining material and finished to harmonize therewith. Whenever material has been depressed by a welding operation, such depression shall be suitably hammered and peened flush with the adjoining surface and, if necessary, again ground to eliminate low spots. In all cases, the grain of rough grinding shall be removed by successive fine polishing operations.
  - 5. Unexposed welded joints on undershelves of tables or counters in stainless steel construction shall be suitably coated at the factory with an approved metallic-based paint.

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- 6. After galvanized steel members have been welded, welds and areas where galvanizing has been damaged shall have a zinc dust coating applied in conformance with U.S. Government Military Specification Number MIL-P-26915.
- H. Butt joints and contact joints, wherever they occur, shall be close fitting and shall not require filler. Wherever break bends occur, they shall be free of undue extrudence and shall not be flaky, scaly, or cracked in appearance; where such breaks do mar the uniform surface appearance of the material, such marks shall be removed by suitable grinding, polishing, and finishing. Wherever sheared edges occur, they shall be free of burrs, fins, and irregular projections and be finished to obviate danger of cutting or laceration when the hand is drawn over them. In no case shall overlapping materials be acceptable where miters or bullnosed corners occur.
- I. The grain of polishing shall run in the same direction on horizontal and on vertical surfaces of each item of fabricated equipment except in the case where the finish of the horizontal sections of each shall terminate in a mitered edge. Where sinks and adjacent drainboards are equipped with backsplash, the grain of polishing shall be consistent in direction throughout the length of the backsplash and sink compartment.
- J. Component parts, whether fabricated by the Contractor or purchased for building into the fabricated equipment, shall conform to the following.
- K. Bolts, screws, nuts, and washers shall be of steel, except where brass or stainless steel is fastened, in which case they shall be of brass or stainless steel, respectively. Where dissimilar metals are fastened, bolts, screws, nuts, and washers shall be of the higher-grade metal. The spacing and extent of bolts and screws shall be such as to ensure suitable fastening and prevent buckling of the metals fastened.
- L. Adequate ventilation is to be provided for custom fabricated equipment with built-in or drop-in integral refrigeration systems.

### 3.3 CLEAN-UP

- A. At completion of the installation, clean up, lubricate, and adjust where necessary items of equipment provided and turn them over in first-class condition.
  - 1. Where stainless steel surfaces are disturbed by the installation or fabricating process, such surface shall be finished to match adjoining undisturbed surfaces.
  - 2. At the completion of the installation work, stainless steel shall be gone over with a portable polishing machine and buffed to perfect surfaces. Painted surfaces shall be carefully gone over and retouched as required.

# 3.4 START-UP AND TESTING AND COMMISSIONING

- A. Startup Services: Engage factory-authorized service representatives to perform startup services and to demonstrate and train Owner's maintenance personnel as specified below.
  - 1. Coordinate food service equipment startup with service-utility testing, balancing, and adjustments. Do not operate steam lines before they have been cleaned and sanitized.

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- 2. Remove protective coverings and clean and sanitize equipment, both inside and out, and relamp equipment with integral lighting. Where applicable, comply with manufacturer's written cleaning instructions.
- 3. Test each equipment item for proper operation. Repair or replace equipment that is defective in operation, including units that operate below required capacity or that operate with excessive noise or vibration.
- 4. Test refrigeration equipment's ability to maintain specified operating temperature under heavy-use conditions. Repair or replace equipment that does not maintain specified operating temperature.
- 5. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- 6. Test motors and rotating equipment for proper rotation and lubricate moving parts according to manufacturer's written instructions.
- 7. Test water, drain, gas, steam, oil, refrigerant, and liquid-carrying components for leaks. Repair or replace leaking components.
- 8. Train Owner's maintenance personnel on procedures and schedules related to startup and shutdown, troubleshooting, servicing, and preventive maintenance for each food service equipment item.
- 9. Review data in the operation and maintenance manuals. Refer to Division 1 Section "Contract Closeout."
- 10. Review data in the operation and maintenance manuals. Refer to Division 1 Section "Operation and Maintenance Data."
- 11. Schedule training with Owner, through Architect, with at least 7 days' advance notice.

# 3.5 SEISMIC RESTRAINTS

- A. Install equipment in these contract documents according to the "SMACNA Guidelines for Seismic Restraint of Kitchen Equipment" in any State, province, or jurisdiction that has legislated this requirement as necessary for acceptance. This shall include:
  - 1. Identifying these items on his submittal drawings, Plans, Elevations, and Sections.
  - 2. Showing required SMACNA methods of restraint on his submittal drawings.
  - 3. Referencing the appropriate detail(s).
  - 4. Obtain regulatory approval for all seismic engineering details.
- B. If no SMACNA detail exists for a particular situation, prepare and obtain approval for a special attachment detail:
  - 1. Detail must be prepared by an engineer licensed by the State having jurisdiction over the project and accompanied by the supporting calculations used in the design.
  - 2. Verify that the restraint design is appropriate to the building's structural conditions and the surfaces to which the equipment will be secured.

# PART 4 - ITEMIZED PRODUCT SPECIFICATION

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ITEM #01 PLASTIC SHELVING UNIT

Manufacturer: Model:

r: Cambro CPU Premier Series

Camshelving Premier Starter Unit, width x Length per plan x 72"H, 5 shelf, includes: four posts, 2 sets of post connectors, traverses

Five (5) tier; four (4) vented shelves plus one (1) solid bottom shelf, speckled gray, NSF

ITEM #01.1	DUNNAGE RACK
Manufacturer:	Cambro
Model:	DRS

S-Series Dunnage Rack, slotted top, 3000 lb. load capacity, 21"W x Length per Plan x 12"H, polyethylene, one-piece, seamless double wall construction, 4" square legs, speckled gray, NSF

ITEM # 06	FAUCET, BACKSPLASH MOUNTED
Manufacturer:	Fisher or equal by T&S or Chicago Faucet
Model:	13269
Faucet, 1/2" NP <sup>-</sup>	backsplash mount, 8" centers, 12" swing spout, lever handles with color coded indexes, Γ male inlets, brass, CSA, ADA Compliant 1 year warranty against defects in materials or workmanship, standard Shipped loose to plumber to install on site
ITEM # 06.2	FAUCET, BACKSPLASH MOUNTED
Manufacturer:	Fisher or equal by T&S or Chicago Faucet
Model:	13218
Faucet, 1/2" NP <sup>-</sup>	backsplash mount, 8" centers, 16" swing spout, lever handles with color coded indexes, Γ male inlets, brass, CSA, ADA Compliant
	1 year warranty against defects in materials or workmanship, standard
	Shipped loose to plumber to install on site
ITEM # 07	LEVER WASTE W/ OVERFLOW
Manufacturer:	Fisher or equal by T&S or Chicago Faucet

Model: 22322

DrainKing Waste Valve, flat strainer, overflow body, 14 x 16 tube & elbow, 12 GPM drain rate, cast red brass body

Shipped loose to plumber to install on site

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ITEM #	08	MOBILE WORK TABLE, 72"x30"
Manufa	cturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:		T3072SE
	Work Table, op front & back, Ur (4) stainless ste	en base, 72"W x 30"D x 34"H, 14/300 series stainless steel top, square edge on ni-Lok® gusset system, 18/300 series stainless steel undershelf with marine edge, eel legs, NSF
	Square edg	je table, front and/or rear, per table
	All welded	construction, legs, undershelf & top
	Table C caster,	Casters, 5"Diameter, set of (4), (2) swivel & (2) braked, 250 lb weight capacity per poly cart washable with polymer tread, NSF
ITEM #	09	REFRIGERATOR RACK, ROLL-IN
Manufa Model:	cturer:	New Age or equal by Advance Tabco or Eagle 4338
Would.	Lifetime Series 1-1/2" x 3-1/4" x 18 x 26 pans, ft casters, NSF, M	Roll-In Bun Pan Rack, heavy duty, aluminum, 64"H, (18) wide-angle runners are $\times$ .100 with 3" spacing (non-adjustable), extruded aluminum guides for 12 x 20 to ully welded 1-1/2"x1-3/4" x .07" smooth wall D-tube uprights, (4) 5" platform swivel fade in USA
ITEM #	23	HAND SINK
Manufa	cturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:		HSA-10-1FK
	Hand Sink, wall construction, sp design-positive	mount, 13-1/2"Wide x 9-3/4" front-to-back x 6-3/4" deep bowl, 304 stainless steel blash mounted faucet, single knee pedal, skirt, basket drain, deep-drawn seamless drain, inverted "V" edge, NSF
	Tempe Left & r	ring Valve, built in check valve, ASSE 1016 & 1070 listed ight-side splashes
	Faucet	and drain shipped loose to plumber to install on site
	Paper <sup>-</sup> proxima	Towel Dispenser, wall-mounted, surface mount, with soap dispenser, capacity ap- ately 200 C-fold paper towels, stainless steel construction.
	Ver dis	ify the soap and paper towel dispensers match the soap and paper towel pensers used by the operator
ITEM #	24	WALK-IN COOLER/FREEZER
Manufa Model:	cturer:	Bally or equal by Thermo-Kool, Imperial Brown, or Kolpak CUSTOM
	Per plan x 8'-6"	Н
	4" urethane inse NSF & UL appr	ulation, minimum value R-25. oved construction
	Interior vertical	panels finished with stucco embossed .040 aluminum
	Floorless unit- (	Coordinate the recessed insulated slab with G.C.
	Interior ceiling p	panels to be smooth white aluminum finish
	Unexposed exte	erior vertical and ceiling panels to be stucco embossed galvanized

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Exposed and exterior vertical panels to be stucco embossed .040 aluminum with 1/8" thick aluminum diamond tread plate for 48" high wainscoting.

Door: 60" x 84" horizontal bi-parting sliding freezer door, 4" thick, manual, door locks, 14" x 14" observation window, 1/8" thick aluminum tread plate for 48" high wainscoting on door interior/exterior, no wood construction. Frame: .040 stucco aluminum. Leaf: .040 stucco aluminum both sides w/ leaf heaters. Provide inside safety release. Provide a vinyl curtain Door:

36"W x 78" high; three hinges; Provide a vinyl curtain

48"H 1/8" thick aluminum tread plate inside and out; 14" x 14" observation window. Provide inside safety release.

Provide Modularm 75LC for each door for light and alarm control, recessed into panel. Automatic door closer

1/8" thick aluminum tread plate for 48" high wainscoting exposed exteriorand full interior.

Provide five (5) 4'-0" LED light fixture per compartment to meet health department and 2009 standards with efficacy of no less than 40 lumens per watt.

Matching trim strips and enclosure panels as required to adjacent walls and ceiling.

Provide reinforcement where the security shelving is to be located within the walk-in cooler section

Walk-ins and refrigeration to meet requirements of the Energy Security and Independence Act of 2007 and the Department of Energy's Walk-in Cooler and Freezer ruling of 2017.

Reference foodservice drawing FS5.01 for additional details

ITEM #	24.1	EVAPORATOR COOLER
	Included with ite	em 39
ITEM #	24.3	EVAPORATOR - FREEZER
	Included with ite	em 39
ITEM #	30	SHELVING, WALL-MOUNTED, 96"x12"
Manufa	cturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEL John Boos, or Nationwide
Model:		WS1296-14/3
	Shelf, wall-mou stainless steel r	nted, 96"W x 12"D, rolled frontedge, 1-1/2"H up-turn on sides & rear, includes nounting brackets stud welded to shelf, 14/304 stainless steel construction, NSF Two tier, mount first at 54" AFF
ITEM #	34	WORK TABLE W/ SINK, 96"x30"
Manufa	cturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:		T3096STE-BS
	Work Table, op	en base, 96"W x 30"D x 34"H, 14/304 stainless steel top with 6" backsplash and
	sides turned do	wn 90 degrees, square front edge, square turndown ends, heavy gauge stainless
	steel 1-1/4" O.D	. side & rear crossrails, (6) 1-5/8" O.D. legs, 1" adjustable stainless steel bullet

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feet, Uni-Lok® system, NSF

	Provide 1" turndown at backsplash Secure the worktable to the wall using 16ga. Stainless steel "Z" clips Square edge table, front and/or rear, per table Fabricated sink welded in place, 16" x 20" x 14" bowl Stainless steel bullet feet All welded construction, legs, undershelf & top Left hand side splash, fully enclosed if exposed
ITEM # 36.8	COFFEE BREWER
Manufacturer:	Bunn or equal by Fetco or Curtis
Model:	38700.0008
AXIO	A®-DV-3 Coffee Brewer, large 200 oz. capacity tank, with 1 lower brewer and 2 upper
warme	ers, hot water faucet, SplashGard® funnel, LCD display, digital temperature, automatic
warme	FO-17-TL EasyClear® Quick Connect Water Quality System Jow volume multi-purpose
	taste/odor & chlorine reduction @ 0.5 gpm, 1.500 gallons of sediment, scale inhibitor, 5
	micron, designed for one/two 1/2 gallon coffee brewers, NSF
<u>ITEM # 37</u>	WORK TABLE W/ SINK, 84"x30"
Manufacturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal
Model <sup>.</sup>	T3084STE-BS
Work	Table, open base, 84"W x 30"D x 34"H. 14/304 stainless steel top with 6" backsplash and
sides	turned down 90 degrees, square front edge, square turndown ends, heavy gauge stainless
steel 1	-1/4" O.D. side & rear crossrails, (4) 1-5/8" O.D. legs, 1" adjustable stainless steel feet,
Uni-Lo	system, NSF
	Provide 1" turndown at backsplash
	Secure the worktable to the wall using 1bga. Stainless steel "Z" clips
	Fabricated sink welded in place 16" x 20" x 14" howl
	Stainless steel bullet feet
	All welded construction, legs, undershelf & top
	Left and right end side splashes, fully enclosed if exposed
Manufacturer:	RDT Refrigeration or equal by ColdZone or Omni
Model:	CUSTOM
Refere	ence foodservice drawing FS5.03 for additional details
<u>ITEM # 47.4</u>	MOBILE HOLDING CABINET
Manufacturer: Model:	Cres Cor or equal by Winston, FWE, or Carter-Hoffman H-135-WUA-11-R
Cabin	et, Mobile Heated, with humidity, insulated, bottom-mount heater assembly, recessed
push/p	bull handles, (11) sets of chrome plated wire universal angle slides on 4-1/2" centers ad-

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justable 1-1/2" centers, (4) 5" swivel casters (2) braked, anti-microbial latches, analog thermometer, aluminum construction, red dutch doors, 1920watt, cCSAus, CSA-Sanitation

ITEM #	49	WALK-IN COOLER		
Manufa Madali	cturer:	Bally or equal by Thermo-Kool, Imperial Brown, or Kolpak		
woder.	Per plan v 8' 6"			
	rei piaii x o o ⊓ 4" urethane insulation, minimum value R 25			
	NSE & UL approved construction			
	Interior vertical	panels finished with stucco embossed .040 aluminum		
	Hard Rail Const	truction		
	Heavy duty structural floor design with internal support structure 12" o.c, with a ¾" thermalite			
	overlay. The interior floor surface shall be foamed-in-place 1/8" aluminum tread plate with coved			
	interior corners.			
	Interior ramp wi	th non-skid strips		
	Interior ceiling p	anels to be smooth white aluminum finish		
	Exposed and exe	and ventical and celling panels to be slucco emobssed galovanized sterior vertical panels to be stucco embossed. 040 aluminum with 1/8" thick		
	aluminum diam	and tread plate for 48" high wainscoting		
	Doors: 36"W x 7	78" high: three hinges: 48"H 1/8" thick aluminum tread plate inside and out: 14" x		
	14" obsei	rvation window. Provide inside safety release. Provide a vinyl curtain		
	Provide Automa	Modularm 75LC for each door for light and alarm control, recessed into panel.		
	1/8" thick alumir	num tread plate for 48" high wainscoting full interior and exposed exterior.		
	Provide two (2) 4'-0" LED light fixture per compartment to meet health department and 2009 standards with efficacy of no less than 40 lumens per watt			
	Matching trim st	trips and enclosure panels as required to adjacent walls and ceiling.		
	Provide reinford	Provide reinforcement where the security shelving is to be located within the walk-in cooler		
	section			
	Refrigeration system provided by Item #49.1 & 49.2			
	Walk-ins and refrigeration to meet requirements of the Energy Security and Independence Act of			
	2007 and the Department of Energy's Walk-in Cooler and Freezer ruling of 2017.			
	Reference foodservice drawing FS5.01 for additional details			
ITEM #	49.1	EVAPORATOR COIL-COOLER		
Manufa	cturer:	RDT Refrigeration or equal by ColdZone or Omni		
Model:		CUSTOM		
	Included with item #49.2			

Reference foodservice drawing FS5.04 for additional details

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ITEM # 49.2	COMPRESSOR-COOLER
Manufacturer:	RDT Refrigeration or equal by ColdZone or Omni
Model:	CUSTOM

Reference foodservice drawing FS5.04 for additional details

ITEM #	51	THREE COMPARTMENT SINK
Manufa	cturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:	Spec-Master® F coved corners, 2 right, 9-1/2"H ba sides, includes 2 & adjustable bu Provide Secure Individu All weld	FN2860-3-30-14/3 FN Series Sink, three compartment, 126"W x 35"D, 14/304 stainless steel top, 20" wide x 28" front-to-back x 14" deep compartments, 30" drainboards on left & acksplash, (2) sets of 8" OC splash mount faucet holes, rolled edges on front & 3-1/2" basket drains, stainless steel crossbracing on all sides, stainless steel legs llet feet, NSF 1" turndown at backsplash the worktable to the wall using 16ga. Stainless steel "Z" clips al fabricated sink bowls welded in place-14/304 ed construction
ITEM #	64.1	WATER FILTRATION SYSTEM
Manufa Model:	cturer: Insurice Single   filtration, (1) I20	Everpure or equal by 3M or OptiPure EV932421 PF-i2000 <sup>2</sup> System, 9,000 gallon capacity, 1.67 gpm flow rate, 0.5-micron precoat 00 <sup>2</sup> cartridge, with self-contained scale inhibitor feed, (1) EC210 sediment prefilter
	Cartridge, for cu valve, NSF, AN	ibers up to 750 lbs/day or flakers up to 1,500 lbs/day, pressure gauge, flushing SI
ITEM #	64.2	WATER FILTRATION SYSTEM
Manufa Model:	cturer:	Everpure or equal by 3M or OptiPure EV932523
	INSURICE Tripl filtration (3) I400 ter Cartridge, pr	e PF-i4000 <sup>2</sup> System, 36,000 gallon capacity, 5 gpm flow rate, 0.5-micron precoat 00 <sup>2</sup> Cartridges, with self-contained scale inhibitor feed (1) EC210 sediment prefil- essure gauge, flushing valve, high flow rate 5.0 gpm
ITEM #	68	SHELVING, WALL-MOUNTED, 120"x12"
Manufa	cturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
woael:	Shelf, wall mour less steel moun	nt, 120"W x 12"D, rolled frontedge, 1-1/2" upturn on rear & ends, includes stain- ting brackets stud welded to shelf, 14/304 stainless steel construction, NSF

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ITEM #	70	WORK TABLE W/ SINK, 72"x30"
Manufa	cturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:	Work Table, op sides turned do steel 1-1/4" O.I feet, Uni-Lok® Provide Secure Square Fabrica Stainle All weld Bight e	T3072STE-BS en base, 72"W x 30"D x 34"H, 14/304 stainless steel top with 6" backsplash and wn 90 degrees, square front edge, square turndown ends, heavy gauge stainless D. side & rear crossrails, (4) 1-5/8" O.D. legs, 1" adjustable stainless steel bullet system, NSF = 1" turndown at backsplash the worktable to the wall using 16ga. Stainless steel "Z" clips e edge table, front and/or rear, per table ated sink welded in place, 16" x 20" x 14" bowl ss steel bullet feet ded construction, legs, undershelf & top and side splash, fully enclosed if exposed
	Right e	nu side spidsh, fully enclosed il exposed
ITEM #	71	SHELVING, WALL-MOUNTED, 48"x12"
Manufa	icturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
model.	Shelf, wall mou steel mounting Two tie	nt, 48"W x 12"D, rolled frontedge, 1-1/2" upturn on rear & ends, includes stainless brackets stud welded to shelf, 14/304 stainless steel construction, NSF er, mount first at 54" AFF
ITEM #	76	UNDERBAR GLASS RACK, 24"
Manufa Model:	icturer:	Glastender or equal by Perlick DBGR-24
	Underbar Glass glass racks, 7"h removable perf justable stainle	Rack Storage Unit, drainboard top, 24"W, open front base, holds (2) 20" x 20" d backsplash, adjustable intermediate shelf & fixed bottom shelf, drain pan with orated insert & 1/2" drain, stainless steel construction, stainless steel legs with ad- ss steel bullet feet, NSF
ITEM #	77	TRASH CAN – BY OWNER
	NIKEC - This is es only. Genera	not in the kitchen equipment contract and is shown here for informational purpos- al Contractor to confirm all required utilities are provided.
ITEM #	81	GREASE TRAP INTERCEPTOR
	NIKEC - This is es only. Genera	not in the kitchen equipment contract and is shown here for informational purpos- al Contractor to confirm all required utilities are provided.

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ITEM #	100	FRONT COUNTER. STAINLESS STEEL
Manufa	icturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:		CUSTOM
	Constructed in a	accordance with the front-end specifications and drawings.
	14/304 top; 18 g	ga/304 stainless steel legs.
	All welded cons	truction
	Provide cut-outs	s for ice/soda station per plan, 26"W and POS cords/cables.
	Reference food	service equipment layout drawing FS5.02 for additional front counter details.
ITEM #	101	ICE/SODA STATION-BY VENDOR
	NIKEC - This is	not in the kitchen equipment contract and is shown here for informational purpos-
	es only. Genera	I Contractor to confirm all required utilities are provided
ITEM #	102	CO2-BY VENDOR
	NIKEC - This is	not in the kitchen equipment contract and is shown here for informational purpos-
	es only. Genera	I Contractor to confirm all required utilities are provided.
ITEM #	103	SODA SYSTEM-BY VENDOR
	NIKEC - This is	not in the kitchen equipment contract and is shown here for informational purpos-
	es only. Genera	I Contractor to confirm all required utilities are provided.
ITEM #	104	CUP HOLDER, STAINLESS STEEL
Manufa	icturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal
		Stainless, IEI, or Nationwide
Model:		CUSTOM
	Cup Holder-s/s	- Mount to ice bin
	Reference food	service drawing FS5.02 for additional details
ITEM #	105.1	WARMING DRAWER,
Manufa	icturer:	Hatco or equal by FWE
Model:		HDW-2
	Warming Drawe	er Unit, Free Standing, narrow, two drawers, includes (1) standard 6" deep food
	pan per drawer,	stainless steel construction, thermostatic controls, 4" legs, NSF, cULus, Made in
	USA	-

2-yr warranty on drawer warmer heating elements against burnout, standard 2-yr warranty on drawer slides & rollers against breakage, standard Stainless Steel Drawer Front, standard Casters, 5 diameter, two swivel; two locking

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# ITEM # 106 CASH REGISTER/POS SYSTEM-BY FOODSERVICE OPERATOR

NIKEC - This is not in the kitchen equipment contract and is shown here for informational purposes only. General Contractor to confirm all required utilities are provided.

ITEM #	± 107	BEVERAGE CONDUIT
Manufa	acturer:	Kelly Bev-Way or BevStream,
Model:		CUSTOM
	Beverage cond	uits
	6" or 8" diamete	r, depending on quantities of soda lines to be contained
	PVC where belo	ow or in slab, aluminum above slab and in ceilings
	Verify all routing	
	Provide pull box	les where needed.
		be broad radius sweep elbows, no 45 or 90 degree fittings are allowed
	Provide sleeves	through walls and floors where needed
	Schematic plan	s only shown on drawings. Actual length and run to be coordinated with equip-
	ment needs. ex	isting structure and infrastructure.
		5
ITEM #	<sup>£</sup> 108	MENU BOARD
	NIKEC - This is	not in the kitchen equipment contract and is shown here for informational purpos-
	es only. Genera	I Contractor to confirm all required utilities are provided.
ITEM #	<sup>±</sup> 110	REACH-IN REFRIGERATOR-TWO DOOR
Manufa	acturer:	Continental Refrigerator or equal by Victory, Beverage Air or True
Model:		2RNSA
	Refrigerator, rea	ach-in, two-section, self-contained refrigeration, stainless steel exterior, aluminum
	interior, standar	d depth, full-height solid doors, electronic control with digital display, hi-low alarm,
	electric conden	sate evaporator, 1/3 HP, cETLus, NSF, Made in USA, ENERGY STAR®
	Doors ninge	a per plan ivel with brakes (5" diameter rubber tires) set of 4 (6" beight)
	Two (2) ovt	re shelves per section, specific rubber lifes) set of 4 (6 rieght)
	1 WO (2) EXI	a sherves per section, epoxy coaled, plated steel with clips
ITEM #	± 114	PRETZEL CABINET-BY VENDOR
	NIKEC - This is	not in the kitchen equipment contract and is shown here for informational purpos-
	es only. Genera	I Contractor to confirm all required utilities are provided.
	41111	
	· · · · · · · · · · · · · · · · · · ·	

NIKEC - This is not in the kitchen equipment contract and is shown here for informational purposes only. General Contractor to confirm all required utilities are provided.

ITEM # 115.1	POPCORN POPPER	
Manufacturer:	Gold Medal Products or equal by C Cretors	
Model:	2001ST	
Citation Popcor	n Machine, electric, countertop, 16 oz. Unimaxx kettle, forced air popcorn crisping	
system, stainless steel dome, cULus, NSF		
2 year	parts and 6 months labor warranty, standard	

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ITEM # 116 BOTTLED BEVERAGE REFRIGERATOR-ONE DOOR-BY VENDOR

NIKEC - This is not in the kitchen equipment contract and is shown here for informational purposes only. General Contractor to confirm all required utilities are provided.

ITEM # 116.1 REFRIGERATED MERCHANDISER, ONE DOOR Manufacturer: True

Manufacturer: Model:

GDM-26-HC-TSL01

Refrigerated Merchandiser, one-section, True standard look version 01, (5) shelves, powder coated steel exterior, white interior with stainless steel floor, (1) Low-E thermal glass hinged door, LED interior lights, R290 Hydrocarbon refrigerant, 1/3 HP, cULus, UL EPH Classified, MADE IN USA, ENERGY STAR®

Doors hinged per plan Barrel locks 6" casters

## ITEM # 117 NACHO CHEESE DISPENSER-BY VENDOR

NIKEC - This is not in the kitchen equipment contract and is shown here for informational purposes only. General Contractor to confirm all required utilities are provided.

ITEM #	118	THREE COMPARTMENT SINK
Manufa	cturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:		312-14-3-12
	312 Series Thre struction, 16" W on left & right, 9 mount faucet ho side crossbracin Secure the 14 ga. top a 18 ga. stain Bullet Feet, All weld	ee compartment Sink, three compartment, 72"W x 23"D, 304 stainless steel con- lide x 14" front-to-back x 12" Deep fabricated deep-drawn bowls, 12" Drainboards -/12" splash with 1" turn down, rolled edges on front & sides, 8" O.C. splash oles, 1-1/2" I.P.S basket drains, 12-gauge leg gussets, galvanized steel legs & ng, adjustable bullet feet, NSF worktable to the wall using 16ga. Stainless steel "Z" clips and sink bowls less steel legs with front-to-back crossbracing stainless steel, each led construction
ITEM #	119	SHELVING, WALL-MOUNTED, 72"x12"
Manufa	cturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide

Model: WS1272-14/3

Shelf, wall mount, 72"W x 12"D, rolled frontedge, 1-1/2" upturn on rear & ends, includes stainless steel mounting brackets stud welded to shelf, 14/304 stainless steel construction, NSF

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ITEM # 122.1 ICE BIN FOR ICE MACHINES

Manufacturer: Follett Corporation

Model: SG1350S-56

Upright Ice Bin, single door, 1360 lb. bin storage capacity, stainless exterior, poly liner, Smart-GATE<sup>™</sup> ice shield, poly door with PowerHinge, and corrosion-resistant ABS/poly top custom cut for ice machine, includes 82 oz. plastic ice scoop, NSF

Provide any necessary top reinforcement to mount ice maker on top of bin.

 ITEM # 122.3
 ICE MAKER

 Manufacturer:
 Scotsman or equal by Manitowoc or Hoshizaki

 Model:
 C1448MR-32

 Prodigy Plus® Ice Maker, cube style, air-cooled, no condenser (remote), production capacity up to 1357 lb/24 hours at 70°/50° (1258 lb AHRI certified at 90°/70°), stainless steel finish, medium cube size, cULus, NSF, CE

 3 year parts & labor warranties

 5 year parts & labor warranties on Evaporator

 5 year parts on compressor & condenser

Mount on top of bin

Verify ceiling height with equipment and manufacturer required clearances

ITEM # 122.3C	CONDENSER UNIT, REMOTE	
Manufacturer:	Scotsman or equal by Manitowoc or Hoshizaki	
Model:	ERC311-32	
Condenser Un	it, Remote Refrigeration, designed for outdoor installation, temperature range -	
20°F to 120°F, galvanized finish, use with C0630xR, C0830xR, C1030xR, & C1448xR, cULus		
5 year parl	s on compressor & condenser	

<u>ITEM #</u>	130	HEATED SHELVES FOR PASS-THRU
Manufa	cturer:	Hatco
Model:		GRSDS/H-41D
	Glo-Ray® Merc	handising Warmer, countertop, (16) rods, pass thru design, (2) shelves, top shelf
	horizontal, lowe	r shelf forward-slanted, stainless/aluminum construction, 4" legs, cULus, UL EPH
	Classified, ANS	I/NSF 4, Made in USA

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 ITEM # 131
 PASS-THRU SHELF

 Manufacturer:
 Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide

 Model:
 Custom

 Shelf, pass-thru, width per plan x 24"D, 12" maximum wall thickness, square edge, 16/304 stainless steel construction

KEC to frame opening in 18 ga. Stainless steel, provide 1" returns around perimeter of opening, Provide fully welded corners

Reference foodservice drawing FS5.02 for additional details

<u>ITEM # 1</u>	35.1	CONVEYOR OVEN, VENTLESS
Manufact	urer:	Ovention or Equal by Lincoln Impinger or Turbochef
Model:		CONVEYOR C2600-3 SINGLE BELT
P	Precision Impin	gement <sup>™</sup> Conveyor Cook Oven, ventless, 21" X 26-1/2" cavity dimension, inde-
р	endent top/bot	tom blowers, 48.10" Belt (without wings), 26" W single belt, one-touch display,
. (3	36) conveyor p	resets, USB port, (80) 12" pizza per hour capacity, grease scrubbing catalyst,
S	tainless steel f	ront, top, sides and back cool touch exterior, stainless steel interior, UL, cUL, UL
E	PH Classified,	Made in USA
	Equipm iustable	ent Stand, 24"H x 36"W, no-drip v-edge on front, 1" splash on sides & back, ad- undershelf, stainless steel construction, casters
	J	,,, _,, _,, _
ITEM # 1	38.1	PORTABLE BAR

Manufacturer: Gallery or equal by IRP or Ikoniq

Model: Custom

Mobile Bar, 35"W x 65-1/2"L x 42"H, 9" x 67" 2CM quartz serving countertop, 14/300 stainless steel working countertop, 14ga. metal tubular frame body construction, laminate front and sides, base shall support a back bar cooler, black rubber skirt, 14/300 corner trim, 5" heavy duty casters (2 with locks), 8' power cord

Reference foodservice drawing FS5.05 for additional details

#### ITEM # 138.2 PASS-THROUGH SHELF – NIKEC BY MILLWORK

NIKEC - This is not in the kitchen equipment contract and is shown here for informational purposes only. General Contractor to confirm all required utilities are provided.

KEC to frame opening in 18 GA. Stainless steel, provide 1" returns around perimeter of opening, Provide fully welded corners

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ITEM # 142 **UNDERBAR ICE BIN, 24"** Manufacturer: Glastender or equal by Perlick IBA-24-CP10 Model: Underbar Ice Bin, with 10-circuit cold plate, 24"W x 19"D, 67 lbs. ice capacity, 7"H backsplash, 10-1/2" deep bin liner, ABS plastic breaker strip around ice bin liner, includes sliding stainless steel bin cover, stainless steel construction, stainless steel legs with adjustable stainless steel bullet feet, ETL Sanitation 1 year parts & labor warranty ITEM # 144 SINGLE SPEED RAIL, 24" Manufacturer: Glastender or equal by Perlick Model: SSR-24

Single Speed Rail, 24"W, stainless steel construction, open step-and-rail design, ABS sounddeadening covers, clear snap-on liquor identification label cover, field installed, NSF 1 year parts & labor warranty

Speed Rail Locking Cover, single, 24"W, stainless steel construction, NSF

NIKEC - This is not in the kitchen equipment contract and is shown here for informational purposes only. General Contractor to confirm all required utilities are provided.

ITEM # 149	MOP SINK CABINET
Manufacturer:	Eagle Group or equal by Advance Tabco, John Boos, or IMC Teddy
Model:	F1916-VSCS
Mop Sink Cabir slanted top, hol verse rod hand service faucet, Provide Upgrad	net, 25"W x 22-1/4"D x 84-1/4"H, 300 stainless steel cabinet body with solid back, ds (2) mops, 12" center shelf, 20 gauge stainless steel hinged doors with trans- les & keyed locks, 8" deep bowl with 3" radius corners, 2" NPS drain, includes spray hose & spray hose bracket, NSF e stainless steel back panel le to type 300 stainless steel cabinet
ITEM # 153	MOBILE WORK TABLE, 36"x30"
Manufacturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:	T3036STE-BS

Work Table, open base, 36"W x 30"D, 14/304 stainless steel top with 6" backsplash, square front edge, square turndown ends, heavy gauge stainless steel 1-1/4" O.D. side & rear crossrails, (4) 1-5/8" O.D. legs, Uni-Lok® system, NSF

Square edge table, front and/or rear, per table

All welded construction, legs, undershelf & top

Table Casters, 5"Diameter, set of (4), (2) swivel & (2) braked, 250 lb weight capacity per caster, polymer tread, NSF

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ITEM # 16	4 BACK BAR COOLER-TWO DOOR
Manufactu	rer: Perlick or equal by Glastender
Model:	BBS60
R vo ev H	Arigerated Back Bar Cabinet, two-section, 60"W, self-contained refrigeration, 16 cu.ft. internal Alume, digital thermostat, LED interior lighting, front vented, automatic defrost & condensate aporator, includes floor drain, stainless steel interior, side mount compressor, 1/4 HP, R290 /drocarbon refrigerant, NSF, cULus
	1 year parts & labor warranty, 5 year compressor warranty
	6' cord & plug, standard
	NSF7 listed for food in open containers
	Door Locks
	Refrigeration compartment per plan
	Stainless glass door
	Statiliess steel top - no tapping noies Provide a 14/300 series stainless steel top worktop in lieu of standard
	Doors hinged per plan
	Casters (set of six). 4"
ITEM # 16	4.1 BACK BAR COOLER-TWO DOOR
Manufacti	rer: Perlick or equal by Glastender
Model:	BBS60
R vo ev	atrigerated Back Bar Cabinet, two-section, 60"W, self-contained refrigeration, 16 cu.ft. internal slume, digital thermostat, LED interior lighting, front vented, automatic defrost & condensate aporator, includes floor drain, stainless steel interior, side mount compressor, 1/4 HP, R290
п	1 year parts & labor warranty 5 year compressor warranty
	6' cord & nlug, standard
	NSF7 listed for food in open containers
	Door Locks
	Refrigeration compartment per plan
	Black vinyl clad doors
	Stainless steel top - no tapping holes
	Doors hinged per plan
M R	ount in the portable bar, item #138.1 eference foodservice drawing FS5.05 for additional details
ITEM # 16	5.1 ICE BIN FOR ICE MACHINES
Manufactı Model:	rer: Follett Corporation or equal by ice machine manufacturer SG700S-30
U G fa	oright Ice Bin, single door, 680 lb. bin storage capacity, stainless exterior, poly liner, Smart- ATE™ ice shield, poly door with PowerHinge, and corrosion-resistant ABS/poly top custom cut r ice machine, includes 82 oz. plastic ice scoop, NSF

Provide any necessary top reinforcement to mount ice maker on top of bin.

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ITEM #	165.4	ICE MAKER
Manufa	cturer:	Scotsman or equal by Manitowoc or Hoshizaki
Model:	Prodigy Plus® I to 614 lb/24 hou be size, cULus, 5 year parts 5 year parts	C0630MR-32 ce Maker, cube style, air-cooled, no condenser (remote), production capacity up irs at 70°/50° (540 lb AHRI certified at 90°/70°), stainless steel finish, medium cu- NSF, CE, ENERGY STAR®, Made in USA3 year parts & labor warranties & labor warranties on Evaporator on compressor & condenser
	Verify ceiling he	ight and required clearances are met
ITEM #	165.4C	ICE MAKER
Manufa Model:	cturer:	Scotsman or equal by Manitowoc or Hoshizaki ERC311-32
	Condenser Unit 20°F to 120°F, g	, Remote Refrigeration, designed for outdoor installation, temperature range - galvanized finish, use with C0630xR, C0830xR, C1030xR, & C1448xR, cULus
ITEM #	167	UNDERBAR POS CABINET
Manufa	cturer:	Glastender or equal by Perlick
Model:	POS Work Cent integral handle,	PCB-18 er, 18"W, 26"H work surface with cord access hole, louvered locking door with splashes on sides & rear, stainless steel construction, adjustable bullet feet
ITEM #	170	PIZZA PREPARATION REFRIGERATOR
Manufa Model:	cturer:	Continental Refrigerator or equal by Beverage Air or True CPA43
	Pizza Prep Tabl work top with 19 densate evapor with digital displ Standar compre Conden Refriger Casters	e, 43"W, one-section, 12.0 cu ft capacity, forced air, 300 series stainless steel " poly cutting board, (1) full & (1) half height field rehingeable doors, electric con- ator, stainless steel front & end panels, aluminum interior, electronic controller ay, side-mounted refrigeration, 1/2 HP, cETLus, NSF, Made in USA "d warranty (for the United States & Canada Only): 3 year parts and labor; 5 year ssor, standard sing unit located per plan rated drawer compartment, in lieu of door over the condensing unit compartment , swivel, with brakes, (4" diameter rubber tires) set of 4 (5" height)
ITEM #	195	LEVER WASTE
Manufa Model:	cturer:	Fisher or equal by T&S or Chicago Faucet 22209
	DrainKing Wast ball, cast red bra	e Valve, with flat strainer, 12 GPM drain rate, dual teflon seals, stainless steel ass body

Shipped loose to plumber to install onsite

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ITEM #	264.1	MOBILE WORK TABLE, 60"x30"
Manufa	acturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:	Spec-Master® S on front & back steel legs & adj Square All weld Table C caster,	T3084STE Series Work Table, 84"W x 30"D, 14/300 series stainless steel top, square edges Uni-Lok® gusset system, stainless steel crossrails on side & rear, (4) stainless ustable bullet feet, NSF edge table, front and/or rear, per table led construction, legs, undershelf & top Casters, 5"Diameter, set of (4), (2) swivel & (2) braked, 250 lb weight capacity per poly cart washable with polymer tread, NSF
ITEM #	284	SECURITY FENCING
Manufa	acturer:	New Age
Model:		CUSTOM
	door hinged per	<sup>•</sup> plan, units are mounted to floor & ceiling, aluminum construction, NSF
ITEM #	321.1	MOBILE WORK TABLE, 48"x30"
Manufa	acturer:	Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model.	Spec-Master® 3 on front & back steel legs & adj Square All weld Table C caster,	Series Work Table, 48"W x 30"D, 14/300 series stainless steel top, square edges , Uni-Lok® gusset system, stainless steel crossrails on side & rear, (4) stainless ustable bullet feet, NSF edge table, front and/or rear, per table led construction, legs, undershelf & top Casters, 5"Diameter, set of (4), (2) swivel & (2) braked, 250 lb weight capacity per poly cart washable with polymer tread, NSF
<u>ITEM #</u>	357 NIKEC - This is es only. Genera	<u>PORTABLE GRILL – NIKEC – EXISTING - BY OWNER</u> not in the kitchen equipment contract and is shown here for informational purpos- al Contractor to confirm all required utilities are provided.
ITEM #	420 NIKEC - This is	HIGH SPEED OVEN – NIKEC - FUTURE
	es only. Genera	al Contractor to confirm all required utilities are provided.

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ITEM #	455 WORK TABLE, 72"x30"
Manufa	cturer: Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide
Model:	T3072SE-BS Spec-Master® Series Work Table, 72"W x 30"D, 6"H backsplash, 14/300 series stainless steel top, square front edge, 18/300 series stainless steel undershelf with marine edge, Uni-Lok® gus- set system, (4) stainless steel legs & adjustable bullet feet, NSF Square edge table, front All welded construction, legs, undershelf & top Bullet Feet, stainless steel, each Enclosed side splash when exposed
ITEM #	456 WORK TABLE, 96"x30"
Manufa Model <sup>:</sup>	cturer: Eagle Group or equal by Advance Tabco, Aero, Atlanta Custom Fab, Universal Stainless, IEI, John Boos, or Nationwide T3096F-BS
	Spec-Master® Series Work Table, 96"W x 30"D, 6"H backsplash, 14/300 series stainless steel top, square front edge, 18/300 stainless steel undershelf, Uni-Lok® gusset system, (6) stainless steel legs with adjustable stainless steel bullet feet, NSF Square edge table, front All welded construction, legs, undershelf & top Bullet Feet, stainless steel, each Enclosed side splash when exposed
ITEM #	484 WORKTOP REFRIGERATOR
Manufa Model:	cturer: Continental Refrigerator or equal by Beverage Air or True RA60NBS
	Refrigerated Base Worktop Unit, 60"W, 300 series stainless steel work top with 6"H backsplash, stainless steel front & end panels, galvanized steel rear & grill, aluminum interior, (2) full & (1) half height field rehingeable doors, electronic controller with digital display, 1/3 HP, side-mounted re- frigeration, cETLus, NSF, Made in USA Refrigerated drawer compartment, in lieu of door over the condensing unit compartment Doors hinged per plan Condenser located per plan
ITEM #	588 ICE DISPENSER
Manufa	cturer: Hoshizaki
wodel:	Ice & Water Dispenser, 30"W, counter model, air-cooled, 200-lb. ice capacity, accommodates KM-340, KM-515, KM-600, KM-650 or KML Series ice machines or manual fill, dispenses 7-1/2 lb. ice/minute, auger agitator dispenses individual cubes, stainless steel exterior, cULus, ETL-Sanitation

Leg Kit, 4", black die cast

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 ITEM # 636
 COUNTERTOP CONVECTION STEAMER

 Manufacturer:
 Accutemp or equal by Groen or Cleveland

 Model:
 S62083D120

 Steam'N'Hold™ Boilerless Convection Steamer, countertop, electric, holds (6) 12"x 20"x 2-1/2"

 deep pans, vacuum cooking, manual mechanical timer controls, NO water or drain connections

 required, ENERGY STAR®

 1 year parts & labor warranty, standard

ITEM # 667.1 ICE MERCHANDISER – BY OWNER NIKEC - This is not in the kitchen equipment contract and is shown here for informational purposes only. General Contractor to confirm all required utilities are provided.

## END OF SECTION 11 40 00

### SECTION 230900 - CONTROLS AND INSTRUMENTATION

#### Section Record:

Issued: Addendum 02 - December 12, 2019 Issued: 100% Construction Documents - November 15th, 2019.

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

- A. All work of this Division shall be coordinated and provided by the single BMS Contractor.
- B. The work of this Division shall be scheduled, coordinated, and interfaced with the associated work of other trades. Reference the applicable sections for details.
- C. The work of this Division shall be as required by the Specifications, Point Schedules and Drawings.
- D. If the BMS Contractor believes there are conflicts or missing information in the project documents, the Contractor shall promptly request clarification and instruction from the design team.

#### 1.2 DEFINITIONS

- A. Analog: A continuously variable system or value not having discrete levels. Typically exists within a defined range of limiting values.
- B. Binary: A two-state system where an "on" condition is represented by one discrete signal level and an "Off" condition is represented by a second discrete signal level.
- C. BMS: The total integrated system of fully operational and functional elements, including equipment, software, programming, and associated materials, to be provided by this Division BMS Contractor and to be interfaced to the associated work of other related trades.
- D. BMS Contractor: The single Contractor to provide the work of this Division. This Contractor shall be the primary manufacturer, installer, commissioner and ongoing service provider for the BMS work.
- E. Control Sequence: A BMS pre-programmed arrangement of software algorithms, logical computation, target values and limits as required to attain the defined operational control objectives.
- F. Direct Digital Control: The digital algorithms and pre-defined arrangements included in the BMS software to provide direct closed-loop control for the designated equipment and controlled variables. Inclusive of Proportional, Derivative and Integral control algorithms together with target values, limits, logical functions, arithmetic functions, constant values, timing considerations and the like.
- G. BMS Network: The total digital on-line real-time interconnected configuration of BMS digital processing units, workstations, panels, sub-panels, controllers, devices and associated elements individually known as network nodes. May exist as one or more fully interfaced and integrated sub-networks, LAN, WAN or the like.



- H. Node: A digitally programmable entity existing on the BMS network.
- I. BMS Integration: The complete functional and operational interconnection and interfacing of all BMS work elements and nodes in compliance with all applicable codes, standards and ordinances to provide a single coherent BMS as required by this Division.
- J. Provide: The term "Provide" and its derivatives when used in this Division shall mean to furnish, install in place, connect, calibrate, test, commission, warrant, document and supply the associated required services ready for operation.
- K. Furnish: The term "Furnish" and its derivatives when used in this Division shall mean supply at the BMS Contractor's expense to the designated third party trade contractor for installation. BMS Contractor shall connect furnished items to the BMS, calibrate, test, commission, warrant and document.
- L. Wiring: The term "Wiring" and its derivatives when used in this Division shall mean provide the BMS wiring and terminations.
- M. Install: The term "Install" and its derivatives when used in this Division shall mean receive at the jobsite and mount.
- N. Protocol: The term "protocol" and its derivatives when used in this Division shall mean a defined set of rules and standards governing the on-line exchange of data between BMS network nodes.
- O. Software: The term "software" and its derivatives when used in this Division shall mean all of programmed digital processor software, preprogrammed firmware and project specific digital process programming and database entries and definitions as generally understood in the BMS industry for real-time, on-line, integrated BMS configurations.
- P. The use of words in the singular in these Division documents shall not be considered as limiting when other indications in these documents denote that more than one such item is being referenced.
- Q. Headings, paragraph numbers, titles, shading, bolding, underscores, clouds and other symbolic interpretation aids included in the Division documents are for general information only and are to assist in the reading and interpretation of these Documents.
- R. The following abbreviations and acronyms may be used in describing the work of this Division:
  - AHJ Authority Having Jurisdiction
  - AI Analog Input
  - AO Analog Output
  - AWG American Wire Gauge
  - BTL BACnet® Testing Laboratories
  - CPU Central Processing Unit
  - DDC Direct Digital Control
  - DI Digital Input

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DO Digital Output

EEPROM Electronically Erasable Programmable Read Only Memory

- EMI Electromagnetic Interference
- HD High Definition
- HOA Hand-Off-Auto
- I/O Input/Output
- IT Information Technology
- LAN Local Area Network
- LCD Liquid Crystal Display
- LED Light Emitting Diode
- MCC Motor Control Center
- NC Normally Closed
- NO Normally Open
- OAT Outdoor Air Temperature
- OEM Original Equipment Manufacturer (Private label)
- OWS Operator Workstation
- PC Personal Computer
- ppm parts per million
- RAM Random Access Memory
- RF Radio Frequency
- RFI Radio Frequency Interference
- RH Relative Humidity
- ROM Read Only Memory
- RTD Resistance Temperature Device
- TCP/IP Transmission Control Protocol/Internet Protocol
- UPS Uninterruptible Power Supply
- VAC Volts, Alternating Current
- VAV Variable Air Volume



- VDC Volts, Direct Current
- VPN Virtual Private Network
- VSD Variable Speed Drive
- WAN Wide Area Network

# 1.3 BMS SYSTEM DESCRIPTION

- A. The BMS shall be a complete system designed for use with the enterprise IT systems. This functionality shall extend into the equipment rooms. Devices residing on the automation network located in equipment rooms and similar shall be fully IT compatible devices that mount and communicate directly on the IT infrastructure in the facility. Contractor shall be responsible for coordination with the owner's IT staff to ensure that the BMS will perform in the owner's environment without disruption to any of the other activities taking place on that LAN.
- B. Any and all components of the BMS that are connected via field bus or IP network, including the network controllers, field controllers, application specific controllers, server and user interface software, system and controller programming tools and software applications shall be designed, engineered, and tested to work together as a complete building management system, and shall be manufactured by the same BMS manufacturer. Systems that use or require network controllers, field controllers, application specific controllers, server and user interface software, programming tools and software from more than one BMS manufacturer shall not be accepted.
- C. All points of user interface shall be on standard computing devices that do not require the purchase of any special software from the BMS manufacturer for use as a building operations terminal. The primary point of interface on these devices will be a standard Web Browser and will be integrated in to the existing Johnson Controls Metasys System.
- D. Where necessary and as dictated elsewhere in these Specifications, Servers shall be used for the purpose of providing a location for extensive archiving of system configuration data, and historical data such as trend data and operator transactions. All data stored will be through the use of a standard data base platform: Microsoft SQL Server Express or Microsoft SQL Server as dictated elsewhere in this specification. This project is designed to use the existing Johnson Controls server on campus.
- E. The work of the single BMS Contractor shall be as defined individually and collectively in all Sections of this Division specification together with the associated Point Sheets and Drawings and the associated interfacing work as referenced in the related documents.
- F. The BMS work shall consist of the provision of all labor, materials, tools, equipment, software, software licenses, software configurations and database entries, interfaces, wiring, tubing, installation, labeling, engineering, calibration, documentation, samples, submittals, testing, commissioning, training services, permits and licenses, transportation, shipping, handling, administration, supervision, management, insurance, temporary protection, cleaning, cutting and patching, warranties, services, and items, even though these may not be specifically mentioned in these Division documents which are required for the complete, fully functional and commissioned BMS.
- G. Provide a complete, neat and workmanlike installation. Use only manufacturer employees who are skilled, experienced, trained, and familiar with the specific equipment, software, standards and configurations to be provided for this Project.
- H. Manage and coordinate the BMS work in a timely manner in consideration of the Project schedules. Coordinate with the associated work of other trades so as not to impede or delay the work of associated trades.
- I. The BMS as provided shall incorporate, at minimum, the following integrated features, functions and services:
  - 1. Operator information, alarm management and control functions.
  - 2. Information management including monitoring, transmission, archiving, retrieval, and reporting functions.
  - 3. Diagnostic monitoring and reporting of BMS functions.
  - 4. Energy management.
  - 5. Standard applications for terminal HVAC systems.
  - 6. Enterprise-wide information and control access.
  - 7. Offsite monitoring and management access.
- 1.4 QUALITY ASSURANCE
  - A. General
    - 1. The BMS Contractor shall be the primary manufacturer-owned branch office that is regularly engaged in the engineering, programming, installation and service of total integrated BMS.
    - 2. The BMS Contractor shall be a recognized national manufacturer, installer and service provider of BMS.
    - 3. The BMS installer shall be a BMS manufacturer-owned branch office, or an independent controls contractor who is factory trained and authorized by the BMS manufacturer to sell, service and support the BMS specified herein.
    - 4. Independent controls contractors who are authorized by the BMS manufacturer must provide a letter written and signed by a company officer of the specific BMS manufacturer. This document must be dated within the 30 days prior to bid submittal and must state that they are currently a "direct authorized representative" in good standing for the BMS manufacturer for the building management system products described and listed in this specification, that they have "direct purchasing access" to all of the BMS manufacturer's controllers, servers, software and components and technical support, and that they will continue to be an Authorized representative with this access for the duration of the installation and warranty phases of project.
    - 5. If an independent controls contractor is to be considered via addendum, the contractor must provide a letter written by a company officer of the specific BMS manufacturer with the following verbiage; "should this contractor fail to provide a complete and operational system (as judged by the owner/engineer), the Manufacturer will complete the project to the Engineer's satisfaction at no additional cost to the Owner". This letter must be dated within 30 days prior to bid submittal and provided to the engineer along with the other supporting documentation at the time of request for equivalence.
    - 6. The BMS Contractor shall have a branch facility within a 100-mile radius of the job site supplying complete maintenance and support services on a 24 hour, 7-day-a-week basis. The BMS Contractor shall have, at this facility, a trained, directly employed and full time technical staff, spare parts inventory, and all necessary test and diagnostic equipment.
    - 7. As evidence and assurance of the contractor's ability to support the Owner's system with service and parts, the contractor must have been in the BMS business for at least the last ten (10) years and have successfully completed total projects of at least 5 times the value of this contract in each of the preceding five years.
    - 8. The BMS architecture shall consist of the products of a manufacturer regularly engaged in the production of BMS, and shall be the manufacturer's latest standard of design at the time of bid.



- B. Workplace Safety and Hazardous Materials
  - 1. Provide a safety program in compliance with the Contract Documents.
  - 2. The BMS Contractor shall have a corporately certified comprehensive Safety Certification Manual and a designated Safety Supervisor for the Project.
  - 3. The Contractor and its employees and subtrades shall comply with federal, state and local safety regulations.
  - 4. The Contractor shall ensure that all subcontractors and employees have written safety programs in place that covers their scope of work, and that their employees receive the training required by the OSHA rules that have jurisdiction for at least each topic listed in the Safety Certification Manual.
  - 5. Hazards created by the Contractor or its subcontractors shall be eliminated before any further work proceeds.
  - 6. Hazards observed but not created by the Contractor or its subcontractors shall be reported to either the General Contractor or the Owner within the same day. The Contractor shall be required to avoid the hazard area until the hazard has been eliminated.
  - 7. The Contractor shall sign and date a safety certification form prior to any work being performed, stating that the Contractor's company is in full compliance with the Project safety requirements.
  - 8. The Contractor's safety program shall include written policy and arrangements for the handling, storage and management of all hazardous materials to be used in the work in compliance with the requirements of the AHJ at the Project site.
  - 9. The Contractor's employees and subcontractor's staff shall have received training as applicable in the use of hazardous materials and shall govern their actions accordingly.
- C. Quality Management Program
  - 1. Designate a competent and experienced employee to provide BMS Project Management. The designated Project Manager shall be empowered to make technical, scheduling and related decisions on behalf of the BMS Contractor. At minimum, the Project Manager shall:
    - a. Manage the scheduling of the work to ensure that adequate materials, labor and other resources are available as needed.
    - b. Manage the financial aspects of the BMS Contract.
    - c. Coordinate as necessary with other trades.
    - d. Be responsible for the work and actions of the BMS workforce on site.

## 1.5 REFERENCES

- A. All work shall conform to the following Codes and Standards, as applicable:
  - 1. National Fire Protection Association (NFPA) Standards.
  - 2. National Electric Code (NEC) and applicable local Electric Code.
  - 3. UL listing and labels.
  - 4. UL 864 UUKL Smoke Control.
  - 5. UL 268 Smoke Detectors.
  - 6. UL 916 Energy Management.
  - 7. NFPA 70 National Electrical Code.
  - 8. NFPA 90A Standard For The Installation Of Air Conditioning And Ventilating Systems.
  - 9. NFPA 92A and 92B Smoke Purge/Control Equipment.
  - 10. Factory Mutual (FM).
  - 11. American National Standards Institute (ANSI).
  - 12. National Electric Manufacturer's Association (NEMA).
  - 13. American Society of Mechanical Engineers (ASME).

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- 14. American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE).
- 15. Air Movement and Control Association (AMCA).
- 16. Institute of Electrical and Electronic Engineers (IEEE).
- 17. American Standard Code for Information Interchange (ASCII).
- 18. Electronics Industries Association (EIA).
- 19. Occupational Safety and Health Administration (OSHA).
- 20. American Society for Testing and Materials (ASTM).
- 21. Federal Communications Commission (FCC) including Part 15, RF Devices.
- 22. Americans Disability Act (ADA).
- 23. ANSI/EIA 909.1-A-1999 (LonWorks®).
- 24. ANSI/ASHRAE Standard 195 (BACnet).
- B. In the case of conflicts or discrepancies, the more stringent regulation shall apply.
- C. All work shall meet the approval of the Authorities Having Jurisdiction at the project site.
- 1.6 WORK BY OTHERS
  - A. The demarcation of work and responsibilities between the BMS Contractor and other related trades shall be as outlined in the BMS RESPONSIBILITY MATRIX.



# **BMS Responsibility Matrix**

Work	Furnish	Install	Low Volt. Wiring/Tube	Line Power
BMS low voltage and communication wir- ing *1 (note 1)	BMS	BMS	BMS	N/A
VAV box controller (note 2)	BMS	23* <sup>2</sup>	BMS	26
BMS conduits and raceway	BMS	BMS	BMS	BMS
Automatic dampers (non factory)	BMS	23	N/A	N/A
VAV boxes	23	23	N/A	N/A
Pipe insertion devices and taps including thermowells, flow and pressure stations.	BMS	23	BMS	BMS
BMS Current Switches.	BMS	BMS	BMS	N/A
BMS Control Relays	BMS	BMS	BMS	N/A
Power distribution system monitoring inter- faces	26	26	BMS	26
Concrete and/or inertia equipment pads and seismic bracing	23	23	N/A	N/A
Condenser controls interface with BMS	23	23	BMS	26
All BMS Nodes, equipment, housings, en- closures and panels.	BMS	BMS	BMS	BMS
Smoke Detectors <del>(note 4)</del>	26	26	26	26
Fire Dampers	23	23	N/A	N/A
VSDs	BMS	26	BMS	26
Computer Room A/C Unit field-mounted controls	<del>23</del>	<del>23</del>	BMS	<del>26</del>
VRF factory-mounted controls	<u>23</u>	<u>23</u>	BMS	<u>26</u>
VRF space mounted controls	<u>23</u>	BMS	BMS	<u>26</u>
VRF field-mounted controls	BMS	BMS	BMS	<u>26</u>
Fire Alarm shutdown relay interlock wiring	26	26	26	26
Fire Alarm smoke control relay interlock wiring	26	26	BMS	26
Fan Coil Unit controls	BMS	BMS	BMS	26
Cabinet/Unit Heater controls (note 6)	<del>BMS/23*<sup>6</sup></del>	<del>26/BMS*</del> <sup>6</sup>	BMS	<del>26</del>
Air Handling unit field-mounted con- trols	<u>BMS</u>	BMS	BMS	<u>26</u>
Air Handling unit factory-mounted con- trols	<u>23</u>	<u>23</u>	BMS	<u>26</u>
Exhaust Fan controls	<u>23</u>	<u>23</u>	BMS	<u>26</u>
Unit Heater/Infrared Heater controls (note 6)	BMS/23*6	<u>26/BMS*6</u>	BMS	<u>26</u>
Packaged RTU/MAU space mounted con- trols	23	BMS	BMS	26
Packaged RTU/MAU factory-mounted con- trols	23	23	BMS	26
Packaged RTU/MAU field-mounted con- trols	BMS	BMS	BMS	26



Starters, HOA switches	26	26	N/A	26
Control damper actuators	BMS	BMS	BMS	26
Water Softener System	22	22	BMS	26
Sewage Ejectors	22	22	BMS	26
Gas Water Heaters	22	22	BMS	26
Domestic Water Service	22	22	BMS	N/A
Generator	26	26	BMS	26

Footnotes:

- \*1. BMS low voltage and communications wiring: BMS Ethernet communications cable and IP infrastructure furnish and install by BMS Contractor or Division 26 Electrical Contractor as per options in Paragraph 2, A6 above.
- \*2. VAV box controller factory installation would normally be by Division 23 Mechanical who furnishes the VAV boxes; could be by BMS for field installation of special controllers, see item.
- \*3. Electric Baseboard Heating Controls for line voltage stand-alone controls: furnished by Division 23 Mechanical Contractor who finishes the baseboard units; line voltage controls installed and connected by Division 26 Electrical Contractor. Alternately, controls may be furnished and installed by BMS Contractors for projects requiring Baseboard Heating controls to be integrated into the BMS.
- \*6. **Cabinet/Unit Heater Controls** <u>Unit Heater/Infrared Heater Controls</u> for line voltage standalone controls: furnished by Division 23 Mechanical Contractor who furnishes the Cabinet/Unit Heaters; line voltage stand-alone controls installed and connected by Division 26 Electrical Contractor. Alternately, controls may be furnished and installed by BMS Contractors for projects requiring **Cabinet/Unit Heater controls** <u>Unit Heater/Infrared</u> <u>Heater controls</u> to be integrated into BMS.
- 1.7 SUBMITTALS
  - A. Shop Drawings, Product Data, and Samples
    - 1. The BMS contractor shall submit a list of all shop drawings with submittals dates within 30 days of contract award.
    - 2. Submittals shall be in defined packages. Each package shall be complete, shall only reference itself, and previously submitted packages. The packages shall be as approved by the Architect and Engineer for Contract compliance.
    - 3. Allow 15 working days for the review of each package by the Architect and Engineer in the scheduling of the total BMS work.
    - 4. Equipment and systems requiring approval of local authorities must comply with such regulations and be approved. Filing shall be at the expense of the BMS Contractor where filing is necessary. Provide a copy of all related correspondence and permits to the Owner.
    - 5. Prepare an index of all submittals and shop drawings for the installation. Index shall include a shop drawing identification number, Contract Documents reference and item description.
    - 6. The BMS Contractor shall correct any errors or omissions noted in the first review.
    - 7. At a minimum, submit the following:
      - a. BMS network architecture diagrams including all nodes and interconnections.



- b. Systems schematics, sequences, and flow diagrams.
- c. Points schedule for each point in the BMS, including: Point Type, Object Name, Expanded ID, Display Units, Controller type, and Address.
- d. Samples of Graphic Display screen types and associated menus.
- e. Detailed Bill of Material list for each system or application, identifying quantities, part numbers, descriptions, and optional features.
- f. Control Damper Schedule including a separate line for each damper provided under this section and a column for each of the damper attributes, including Code Number, Fail Position, Damper Type, Damper Operator, Duct Size, Damper Size, Mounting, and Actuator Type.
- g. Room Schedule including a separate line for each VAV box and/or terminal unit indicating location and address.
- h. Details of all BMS interfaces and connections to the work of other trades.
- i. Product data sheets or marked catalog pages including part number, photo and description for all products including software.
- B. Existing Systems Inventory
  - 1. Where applicable, provide a complete and current BMS site inventory for all existing field and supervisory controllers to be integrated into the new BMS including manufacturer, model number, firmware version, available updates, battery condition, integrations, controlled equipment, and point counts.
  - 2. Site inventory shall be provided on a separate, new USB compatible flash drive.

### 1.8 RECORD DOCUMENTATION

- A. Operation and Maintenance Manuals.
  - 1. Three (3) copies of the Operation and Maintenance Manuals shall be provided to the Owner's Representative upon completion of the project. The entire Operation and Maintenance Manual shall be furnished on Compact Disc media or USB Flash Drive, and include the following for the BMS provided:
    - a. Table of contents.
    - b. As-built system record drawings. Computer Aided Drawings (CAD) record drawings shall represent the as-built condition of the system and incorporate all information supplied with the approved submittal.
    - c. Manufacturer's product data sheets or catalog pages for all products including software.
    - d. System Operator's manuals.
    - e. Archive copy of all site-specific databases and sequences.
    - f. BMS network diagrams.
    - g. Interfaces to all third party products and work by other trades.
- B. On-Line documentation: After completion of all tests and adjustments the contractor shall provide a copy of all as-built information and product data to be installed on a customer designated computer workstation or server.

#### 1.9 WARRANTY

- A. Standard Material and Labor Warranty:
  - 1. Provide a one-year labor and material warranty on the BMS.



- 2. If within twelve (12) months from the date of acceptance of product, upon written notice from the owner, it is found to be defective in operation, workmanship or materials, it shall be replaced, repaired or adjusted at the option of
- 3. the BMS Contractor at the cost of the BMS Contractor.
- 4. Maintain an adequate supply of materials within 100 miles of the Project site such that replacement of key parts and labor support, including programming. Warranty work shall be done during BMS Contractor's normal business hours.

## PART 2 - PRODUCTS

- 2.1 GENERAL DESCRIPTION
  - A. The BMS shall use an open architecture and fully support a multi-vendor environment. To accomplish this effectively, the BMS shall support open communication protocol standards and integrate a wide variety of third party devices and applications. The system shall be designed for use on the Internet, or intranets using off the shelf, industry standard technology compatible with other owner provided networks.
  - B. The BMS shall consist of the following:
    - 1. Network Engine(s)
    - 2. Field Equipment Controller(s)
    - 3. Input/Output Module(s)
    - 4. Local Display Device(s)
    - 5. Portable Operator's Terminal(s)
    - 6. Distributed User Interface(s)
    - 7. Other components required for a complete and working BMS
  - C. The system shall be modular in nature, and shall permit expansion of both capacity and functionality through the addition of sensors, actuators, controllers and operator devices, while re-using existing controls equipment.
  - D. System architectural design shall eliminate dependence upon any single device for alarm reporting and control execution.
    - 1. The failure of any single component or network connection shall not interrupt the execution of control strategies at other operational devices.
    - 2. The System shall maintain all settings and overrides through a system reboot.
  - E. System architectural design shall eliminate dependence upon any single device for alarm reporting and control execution.
  - F. The System shall comply with the following International Code Council (ICC) Codes:
    - 1. Building Officials and code Administrators International (BOMA) model code.
    - 2. International Conference of Building Officials (ICBO) model code.
    - 3. Southern Building Code Congress International (SBCCI) regulations.
  - G. Acceptable Manufacturers
    - 1. Johnson Controls, Metasys installed by JCI Nitro Office. No substitutions allowed.
      - a. Contact John Bowen (304)-541-8836 for Pricing John.m.bowen@jci.com



## 2. <u>Controls by Mason & Barry Inc</u>.

## 2.2 BMS SYSTEM ARCHITECTURE

- A. Automation Network
  - 1. The automation network shall be based on a PC industry standard of Ethernet TCP/IP. Where used, LAN controller cards shall be standard "off the shelf" products available through normal PC vendor channels.
  - 2. The BMS shall network multiple user interface clients, application and data servers, automation engines, system controllers and application-specific controllers including but not limited to:
    - a. Network Automation Engines
    - b. Network Integration Engines
    - c. Network Control Engines
  - 3. Select Field Equipment Controllers
  - 4. Select VAV Modular Assemblies
  - 5. Third Party BACnet controllers and peripheral devices with compatibility listed by BACnet International
  - 6. Application and Data Server.
  - 7. All BMS devices on the automation network shall be capable of operating at a minimum communication speed of 100 Mbps, with full peer-to-peer network communication.
  - 8. Network Security To protect the BMS from unauthorized users and computer hackers the Automation Network shall support HTTPS with TLS 1.2 between components, including the Application and Data Server(s), Network Engines, Mobile User Interface and Site Management Portal. Self-signed certificates are installed on supported products, with the option of configuring trusted certificates. Computing devices supplied by the BMS vendor will automatically shut down unused ports to deter unauthorized access.
  - 9. The automation network will be compatible with other enterprise-wide networks. Where indicated, the automation network shall be connected to the enterprise network and share resources with it by way of standard networking devices and practices.
- B. Control Network
  - 1. Network Engines (NAE, NIE, NCE) shall provide supervisory control over the control network and shall selectively support the following communication protocols:
    - a. BACnet Standard Master-Slave/Token-Passing (MS/TP) Bus Protocol ASHRAE SSPC-135:
      - 1) The NAE shall be BTL certified and carry the BTL Label.
      - 2) The NAE shall be tested and certified as a BACnet Building Controller (B-BC).
    - b. LonWorks enabled devices using the Free Topology Transceiver (FTT-10a).
    - c. The Johnson Controls N2 Field Bus.
    - d. Modbus® TCP and RTU.
  - 2. Control networks shall provide either "Peer-to-Peer", Master-Slave, or Supervised Token Passing communications, and shall operate at a minimum communication speed of 9600 baud.
  - 3. Control network shall support digital controllers as indicated in plans and specifications.



- 4. Default control network communication protocol for this project shall be BACnet Standard MS/TP Bus Protocol ASHRAE SSPC-135.
- 5. A BACnet Protocol Implementation Conformance Statement (PICS) shall be provided for each controller device (master or slave) that will communicate on the BACnet MS/TP Bus.
- 6. The PICS shall be submitted 10 days prior to bidding.
- C. Integration
  - 1. Hardwired
    - a. Analog and digital signal values shall be passed from one system to another via hardwired connections.
    - b. There will be one separate physical point on each system for each point to be integrated between the systems.
  - 2. Direct Protocol (Integrator Panel)
    - a. The BMS system shall include appropriate hardware equipment and software to allow bi-directional data communications between the BMS system and third party manufacturers' control panels. The BMS shall have the ability to receive, react to, and return information from multiple building systems, including but not limited to the variable frequency drives, power monitoring system, etc.
    - b. All data required by the application shall be mapped into the Automation Engine's database, and shall be transparent to the operator.
    - c. Point inputs and outputs from the third party controllers shall have real-time interoperability with BMS software features such as: Control Software, Energy Management, Custom Process Programming, Alarm Management, Historical Data and Trend Analysis, Totalization, and LAN Communications.
  - 3. BACnet Protocol Integration BACnet
    - a. The neutral protocol used between systems will be BACnet IP and comply with the ASHRAE BACnet standard 135.
    - b. A complete Protocol Implementation Conformance Statement (PICS) shall be provided for all BACnet system devices.
    - c. The ability to command, share point object data, change of state (COS) data and schedules between the host and BACnet systems shall be provided.

## 2.3 USER INTERFACE

- A. Dedicated Web Based User Interface
  - 1. Where indicated on plans the BMS Contractor shall use the existing JCI ADX server to access the system, information management, network alarm management, and database management functions. Real-time control functions, including scheduling, history collection and alarming, shall be resident in the BMS Network Automation Engines and existing Data Server(s) to facilitate greater fault tolerance and reliability.
  - 2. Dedicated User Interface Architecture The architecture of the computer shall be implemented to conform to industry standards, so that it can accommodate applications provided by the BMS Contractor and by other third party applications suppliers, including but not limited to Microsoft Office Applications. Specifically it must be implemented to conform to the following interface standards.
    - a. Microsoft Internet Explorer 11.0 or Edge for user interface functions.



- b. Microsoft Office Professional for creation, modification and maintenance of reports, sequences other necessary building management functions.
- c. Microsoft Outlook or other e-mail program for supplemental alarm functionality and communication of system events, and reports.
- d. Required network operating system for exchange of data and network functions such as printing of reports, trends and specific system summaries.
- 3. Graphics
  - a. The user interface shall display an equipment visualization or graphic within the context of its associated space (building, floor, room, etc.) or equipment dashboard.
  - b. Graphics shall include the ability to define individual information layers for operator selection in order to clarify systems status and simplify operation on mobile devices. Where desired a master layer may be defined to include important information about the facility on all graphic screens.
  - c. Graphics shall support the use of photo-realistic symbols as well as color change and animation to match the status of the related system control point.
  - d. It shall be possible to export a time stamped .pdf file of the graphic being viewed in order to communicate the current conditions in the space or the equipment being viewed and to provide a historic record.
  - e. An integral graphic manager shall be provided including the following features and capabilities:
    - 1) Creation and modification of graphics from any HTML5 capable browser without the need for additional plug-ins or software packages.
    - 2) Access to a full suite of pre-defined templates for air sourced HVAC applications as well as the ability to add custom templates as created for other use. Pre-aliased graphic templates may be defined and saved for repetitive representations of common mechanical and electrical equipment.
    - 3) A full suite of pre-defined three dimensional symbols for mechanical and electrical systems as well as all line, text and shape tools required for integration into a graphic with zoom and pan capabilities on multiple platforms and in multiple browsers.
    - 4) The ability to search and replace items in multiple graphics with a single command.
    - 5) The ability to import and insert photos and images into the graphic.
    - 6) The ability of the graphics manager to create and edit graphics including the ability to bind graphic elements to the values and conditions of system points in both an on-line and off-line mode.
  - f. As required, the BMS Contractor shall provide software licenses in the name of the owner for programming, configuration and graphics building tools to allow designated representatives to make changes, modifications or additions to the system. While future updates or revisions may require an update fee, the owner shall incur no additional cost if they choose not to update. Systems that require any annual or time-limited licensing fees shall not be permitted.
- 4. Scheduling
  - a. The user interface shall provide the capability to display, in a singular view, all of the effective schedules in the context of the space (building/floor/room, etc.) or equipment that the schedule effects. The software should have the ability to display an effective schedule, for the present, or a future date.
  - b. The user interface shall provide a report of all schedules affecting a space or equipment. The report shall provide the user details of events that comprise the



weekly schedule and exception schedule(s). The report shall provide a means of viewing individual breakout scheduling elements for Weekly Schedule, Exceptions and Default Commands.

- c. The user interface shall provide the capability to efficiently change or modify schedules in mass quantities. This includes the capability to add, in bulk, exceptions to schedules, in addition to assigning, in bulk, weekly schedules.
- 5. Command and Control
  - a. It shall be possible to command system analog and binary points via a dropdown menu accessed by clicking or tapping on the value shown in any equipment summary or graphic display and completing the task in the resultant menu including an optional annotation.
  - b. Commanding multiple points shall be possible on displays where multiple like system elements can be chosen.
- 6. Search
  - a. Typing a text string in the Search box shall display a list of all occurrences of that string in the mobile user interface. When a string is represented in the description of a space or network element, selecting it shall display its default dashboard.
  - b. Clicking or tapping on the Advanced Search Icon shall display the Advanced Search dialog box permitting the following:
    - 1) Search by Space and Equipment, Equipment Definition or Network Reference.
    - 2) Filter the search by wildcard name or object type.
    - 3) Multi-selection of objects for commanding or the creation of reports including Trend, Alarm, Audit and Activity for a specific period of time.
- 7. Offline Operation
  - a. The mobile user interface shall have the ability to operate in an offline mode in order to create or edit graphics and dashboard elements.
  - b. Content created offline shall be available to all authorized users for inclusion of an operating user interface later.
- B. Site Management Portal and Associated Application Components
  - 1. General The Site Management Portal and its user interface shall serve as the primary tool for creation and maintenance of the BMS.
  - 2. All features and functions of the Site Manager and associated user Interface defined in this document shall be available on any computer connected directly or via a WAN/VPN to the automation network and conforming to the following specifications.
  - 3. The software shall run be accessible and operational on a Microsoft Internet Explorer (11.0 or higher) browser and support the following functions:
    - a. Configuration.
    - b. Commissioning.
    - c. Data Archiving.
    - d. Monitoring.
    - e. Commanding.
    - f. System Diagnostics.
  - 4. Minimum hardware requirements for client devices:



- a. 8GB RAM.
- b. 3.0 GHz Clock Speed Intel Microprocessor.
- c. 100 GB Hard Drive (free space for cut and paste/screen captures.)
- d. SVGA 1024x768 resolution display with 64K colors and 16 bit color depth.
- e. Mouse or other pointing device.
- 5. Operator Interface
  - a. An integrated browser based client application shall be provided as the user interface program for operators familiar with the detailed operation of the BMS and charged with the maintenance and optimization of the mechanical/electrical systems in the facility.
  - b. The System shall employ an event-driven rather than a device polling methodology to dynamically capture and present new data to the user.
  - c. All Inputs, Outputs, Setpoints, and all other parameters as defined within Part 3, shown on the design drawings, or required as part of the system software, shall be displayed for operator viewing and modification from the operator interface software.
  - d. The user interface software shall provide help menus and instructions for each operation and/or application.
  - e. The system shall support customization of the user interface configuration and a home page display for each operator.
  - f. The system shall support user preferences in the following screen presentations:
    - 1) Alarm.
    - 2) Trend.
    - 3) Display.
    - 4) Applications.
  - g. All controller software operating parameters shall be displayed for the operator to view/modify from the user interface. These include: setpoints, alarm limits, time delays, PID tuning constants, run-times, point statistics, schedules, and so forth.
  - h. The Operator Interface shall incorporate comprehensive support for functions including, but not necessarily limited to, the following:
    - 1) User access for selective information retrieval and control command execution.
    - 2) Monitoring and reporting.
    - 3) Alarm, non-normal, and return to normal condition annunciation.
    - 4) Selective operator override and other control actions.
    - 5) Information archiving, manipulation, formatting, display and reporting.
    - 6) BMS internal performance supervision and diagnostics.
    - 7) On-line access to user HELP menus.
    - 8) On-line access to current BMS as-built records and documentation.
    - 9) Means for the controlled re-programming, re-configuration of BMS operation and for the manipulation of BMS database information in compliance with the prevailing codes, approvals and regulations for individual BMS applications.
  - i. The system shall support a list of application programs configured by the users that are called up by the following means:
    - 1) The Tools Menu.
    - 2) Hyperlinks within displays.
    - 3) Key sequences.



- j. The operation of the control system shall be independent of the user interface, which shall be used for operator communications only. Systems that rely on an operator workstation to provide supervisory control over controller execution of the sequences of operations or system communications shall not be acceptable.
- 6. Navigation Trees
  - a. The system will have the capability to display multiple navigation trees that will aid the operator in navigating throughout all systems and points connected. At minimum, provide a tree that identifies all systems on the networks.
  - b. Provide the ability for the operator to add custom trees. The operator will be able to define any logical grouping of systems or points and arrange them on the tree in any order. It shall be possible to nest groups within other groups. Provide at minimum 5 levels of nesting.
  - c. The navigation trees shall be "dockable" to other displays in the user interface. This means that the trees will appear as part of the display, but can be detached and then minimized to the Windows task bar. A simple keystroke will reattach the navigation to the primary display of the user interface.
- 7. Alarms
  - a. Alarms shall be routed directly from Network Automation Engines to PCs and servers. It shall be possible for specific alarms from specific points to be routed to specific PCs and servers. The alarm management portion of the user interface shall, at the minimum, provide the following functions:
    - 1) Log date and time of alarm occurrence.
    - 2) Generate a "Pop-Up" window, with audible alarm, informing a user that an alarm has been received.
    - 3) Allow a user, with the appropriate security level, to acknowledge, temporarily silence, or discard an alarm.
    - 4) Provide an audit trail on hard drive for alarms by recording user acknowledgment, deletion, or disabling of an alarm. The audit trail shall include the name of the user, the alarm, the action taken on the alarm, and a time/date stamp.
    - 5) Provide the ability to direct alarms to an e-mail address or alphanumeric pager. This must be provided in addition to the pop up window described above. Systems that use e-mail and pagers as the exclusive means of annunciating alarms are not acceptable.
    - 6) Configuration of which NAE offline alarms are seen by each user.
    - 7) Any attribute of any object in the system may be designated to report an alarm.
  - b. The BMS shall annunciate diagnostic alarms indicating system failures and nonnormal operating conditions.
  - c. The BMS shall allow a minimum of 4 categories of alarm sounds customizable through user defined .wav files.
  - d. The BMS shall annunciate application alarms at minimum, as required by Part 3.
- 8. Reports and Summaries
  - a. Reports and Summaries shall be generated and directed to the user interface displays, with subsequent assignment to printers, or disk. As a minimum, the system shall provide the following reports:



- 1) All points in the BMS.
- 2) All points in each BMS application.
- 3) All points in a specific controller.
- 4) All points in a user-defined group of points.
- 5) All points currently in alarm.
- 6) All points locked out.
- 7) All user defined and adjustable variables, schedules, interlocks and the like.
- b. Summaries and Reports shall be accessible via standard user interface functions and not dependent upon custom programming or user defined HTML pages.
- c. Selection of a single menu item, tool bar item, or tool bar button shall print any displayed report or summary on the system printer for use as a building management and diagnostics tool.
- d. Provide the capability to view, command and modify large quantities of similar data in tailored summaries created online without the use of a secondary application like a spreadsheet. Summary definition shall allow up to seven user defined columns describing attributes to be displayed including custom column labels. Up to 100 rows per summary shall be supported. Summary viewing shall be available over the network using a standard Web browser.
- 9. Schedules
  - a. A graphical display for time-of-day scheduling and override scheduling of building operations shall be provided. At a minimum, the following functions shall be provided:
    - 1) Weekly schedules.
    - 2) Exception Schedules.
    - 3) Monthly calendars.
  - b. Weekly schedules shall be provided for each group of equipment with a specific time use schedule.
  - c. It shall be possible to define one or more exception schedules for each schedule including references to calendars.
  - d. Monthly calendars shall be provided that allow for simplified scheduling of holidays and special days for a minimum of five years in advance. Holidays and special days shall be user-selected with the pointing device or keyboard, and shall automatically reschedule equipment operation as previously defined on the exception schedules.
  - e. Changes to schedules made from the User Interface shall directly modify the schedule database stored in an engine or server.
  - f. Schedules and Calendars shall comply with ASHRAE SP135/2008 BACnet Standard.
  - g. The Calendar object supports an option to add a reference to another Calendar Object that is designated to be the master for the facility. Any Supervisory and BAC calendars can be configured to reference a single master Global Calendar. Changes to the master global calendar are automatically synced with all calendars that are referenced.
  - h. Selection of a single menu item or tool bar button shall print any displayed schedule on the system printer for use as a building management and diagnostics tool.
  - i. Software shall be provided to configure and implement optimal start and stop programming based on existing indoor and outdoor environmental conditions as well as equipment operating history.
  - j. The system Solar Clock shall support the scheduling and energy management functions. The Solar Clock will calculate the sunrise, sunset, and sun angle values

for a specified latitude and longitude. A time offset can also be specified allowing the Solar Clock object to be used as a master for control at a specified interval before or after sunset and sunrise.

- 10. Security/Passwords
  - a. Multiple-level passwords access protection shall be provided via roles and permissions. The feature will allow the system to base access on a user's job title or role and allow the user/manager access interface control, display, and database manipulation capabilities based on an assigned password.
  - b. Roles may be copied and altered to meet specific roles and permissions based on the particular policies.
  - c. Each user shall have the following: a user account name (with a maximum of 30 characters), a complex password or passphrase (with a min of 8 characters and a max of 50 characters), other user account policies (such as session timeout), timesheet access based on day of the week and time of day, and specific user view.
  - d. The system shall allow each user to change his or her password at will.
  - e. When entering or editing passwords, the system shall not echo the actual characters for display on the monitor.
  - f. A maximum of 150 categories may be used to determine or assign areas of responsibilities to each user account. A maximum of 13 (of the 150) named categories which are specifics such as "No Access, View, Advanced Review, Operate, Intervene, Diagnostic, Manage Item Events, Manage Every, and Configure Items".
  - g. A minimum of 100 unique passwords shall be supported.
  - h. Operators shall be able to perform only those commands available for their respective passwords. Display of menu selections shall be limited to only those items defined for the access level of the password used to log-on.
  - i. Operators shall be further limited to only access, command, and modify those buildings, systems, and subsystems for which they have responsibility. Provide a minimum of 100 categories of systems to which individual operators may be assigned.
  - j. The system shall automatically generate a report of log-on/log-off and system activity for each user. Any action that results in a change in the operation or configuration of the control system shall be recorded, including: modification of point values, schedules or history collection parameters, and all changes to the alarm management system, including the acknowledgment and deletion of alarms.
  - k. The system shall have the ability to provide a Department of Defense (DoD) specific warning banner for applicable sites that warns the user they are accessing a restricted site.
  - I. After successful login to the Site Management Portal (SMP) the last time and date that user name was previously logged in is shown on the screen.
  - m. Each login attempt is recorded in the system Audit Log with the option to record the IP address of the PC that made the login.
- 11. Screen Manager
  - a. The system will allow a customized image on the login screen (e.g. organization name, logo).
  - b. User View navigations can be displayed as either a set of tabs or a drop down list.
  - c. Allows user preference for assigning of a background color for when an object is Out of Service which will enable the operator to quickly distinguish points that have been commanded to this state.



d. The User Interface shall be provided with screen management capabilities that allow the user to activate, close, and simultaneously manipulate a minimum of 4 active display windows plus a network or user defined navigation tree.

#### 2.4 NETWORK AUTOMATION ENGINES

- A. General
  - 1. The Network Automation Engine (NAE) shall be a fully user-programmable, supervisory controller. The NAE shall monitor the network of distributed application-specific controllers, provide global strategy and direction, and communicate on a peer-to-peer basis with other Network Engines.
  - 2. Automation network The NAE shall reside on the automation network and shall support a subnet of system controllers.
  - 3. User Interface Each NAE shall have the ability to deliver a web based User Interface using the Site Management Portal functionality previously described. All computers connected physically or virtually to the automation network shall have access to the web based user interface.
    - a. The web based user interface software shall be embedded in the NAE. Systems that require a local copy of the system database on the user's personal computer are not acceptable.
    - b. The NAE shall support a minimum of two (2) concurrent users.
    - c. The web-based user shall have the capability to access all system data through a single NAE.
    - d. Remote users connected to the network through an Internet Service Provider (ISP) or telephone dial up shall also have total system access through one NAE.
    - e. Systems that require the user to address more than one NAE to access all system information are not acceptable.
    - f. The NAE shall have the capability of generating web based user interface graphics. The graphics capability shall be embedded in the NAE.
    - g. Systems that only support user interface graphics from a central database or require the graphics to reside on the user's personal computer are not acceptable.
    - h. The web based user interface shall support the following functions using a standard version of Microsoft Internet Explorer:
      - 1) Configuration
      - 2) Commissioning
      - 3) Data Archiving
      - 4) Monitoring
      - 5) Commanding
      - 6) System Diagnostics
    - i. Systems that require workstation software or modified web browsers for system queries are not acceptable.
    - j. The NAE shall allow temporary use of portable devices without interrupting the normal operation of permanently connected modems.
  - 4. Processor The NAE shall be microprocessor-based with a minimum word size of 32 bits. The NAE shall be a multi-tasking, multi-user, and real-time digital control processor. Standard operating systems shall be employed. NAE size and capability shall be sufficient to fully meet the requirements of this Specification.
  - Memory Each NAE shall have sufficient memory to support its own operating system, databases, and control programs, and to provide supervisory control for all control level devices.



- 6. User Authentication The NAE shall support local users, Active Directory users, Microsoft Office 365 users and Remote Authentication Dial-in User Service (RADIUS).
- 7. Password Security Access to the embedded user interface shall require a password of 8 to 50 characters including a minimum of one lower case letter, one upper case letter, one number, and one special character. An alarm shall be generated after three unsuccessful attempts within 15 minutes and the user shall be denied access until permission is renewed by a system administrator.
- 8. Network Security Communication between the NAE and other system networked devices including additional Network Engines, Application and Data Servers, Open Data Servers (BACnet listed OWS), and user interface clients shall be encrypted and support HTTPS with Transport Level Security (TLS) Version 1.2. Self-signed certificates are to be provided with the option of configuring trusted certificates.
- 9. Hardware Real Time Clock The NAE shall include an integrated, hardware-Based, realtime clock.
- 10. Diagnostics The NAE shall continuously perform self-diagnostics, communication diagnosis, and diagnosis of all panel components. The Network Automation Engine shall provide both local and remote annunciation of any detected component failures, low battery conditions, or repeated failures to establish communication.
- 11. Power Failure In the event of the loss of normal power, The NAE shall continue to operate for a user adjustable period of up to 10 minutes after which there shall be an orderly shutdown of all programs to prevent the loss of database or operating system software.
  - a. During a loss of normal power, the control sequences shall go to the normal system shutdown conditions. All critical configuration data shall be saved into Flash memory.
  - b. Upon restoration of normal power and after a minimum off-time delay, the controller shall automatically resume full operation without manual intervention through a normal soft-start sequence.
- 12. Certification The NAE shall be listed by UL.
- 13. Controller network The NAE shall selectively support the following communication protocols on the controller network:
  - a. The NAE shall support BACnet Standard MS/TP Bus Protocol ASHRAE SSPC-135 on the controller network.
    - 1) The NAE shall support Remote field bus integration via a BACnet IP to MS/TP router.
    - 2) The NAE shall be BTL certified and carry the BTL Label.
    - 3) The NAE shall be tested and certified as a BACnet Building Controller (B-BC).
    - 4) A BACnet Protocol Implementation Conformance Statement shall be provided for the NAE.
    - 5) The Conformance Statements shall be submitted 10 days prior to bidding.
- B. Network Automation Engine Large, Dual Trunk
  - 1. The NAE shall support a minimum of:
    - a. One Hundred (100) BACnet Standard MS/TP controllers per trunk (200 total).
  - 2. The NAE shall include troubleshooting LED indicators to identify the following conditions:
    - a. Power On/Off.



- b. Ethernet Traffic Ethernet Traffic/No Ethernet Traffic.
- c. Ethernet Connection Speed 10 Mbps/100 Mbps/1000 Mbps.
- d. FC Bus A Normal Communications/No Field Communications.
- e. FC Bus B Normal Communications/No Field Communications.
- f. Peer Communication Data Traffic between NAE Devices.
- g. Run NAE Running/NAE in Startup/NAE Shutting Down/Software Not Running.
- h. Bat Fault Battery Defective, Data Protection Battery Not Installed.
- i. 24 VAC 24 VAC Present/Loss of 24 VAC.
- j. Fault General Fault.
- k. Modem RX NAE Modem Receiving Data (as required).
- I. Modem TX NAE Modem Transmitting Data (as required).
- 3. Communications Ports The NAE shall provide the following ports for operation of operator I/O devices, such as industry-standard computers, modems, and portable operator's terminals.
  - a. Two (2) USB port.
  - b. Two (2) RS-232 serial data communication port.
  - c. Two (2) RS-485 port.
  - d. One (1) Ethernet port.
- 4. Provide Johnson Controls NAE-55 or approved equal as indicated on plans.

### 2.5 NETWORK CONTROL ENGINES

- A. Network Control Engines
  - 1. The Network Control Engine (NCE) shall be a fully user-programmable, supervisory controller. The NCE shall monitor the network of distributed application-specific controllers, provide global strategy and direction, and communicate on a peer-to-peer basis with other Network Automation Engines.
  - 2. The NCE shall be a fully user-programmable, digital controller that includes a minimum of 33 I/O points.
  - 3. Automation Network The NCE shall reside on the automation network and shall support a subnet of 32 Field controllers.
  - 4. User Interface Each NCE shall have the ability to deliver a web based user interface as previously described. All computers connected physically or virtually to the automation network shall have access to the web based user interface.
    - a. The web based user interface software shall be embedded in the NCE. Systems that require a local copy of the system database on the user's personal computer are not acceptable.
    - b. The NCE shall support a minimum of two (2) concurrent users.
    - c. The NCE shall have the capability of generating web based user interface graphics. The graphics capability shall be embedded in the NCE.
    - d. Systems that only support user interface graphics from a central database or require the graphics to reside on the user's personal computer are not acceptable.
    - e. The web based user interface shall support the following functions using a standard version of Microsoft Internet Explorer:
      - 1) Configuration
      - 2) Commissioning
      - 3) Data Archiving
      - 4) Monitoring
      - 5) Commanding
      - 6) System Diagnostics

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- f. Systems that require workstation software or modified web browsers are not acceptable.
- g. The NCE shall allow temporary use of portable devices without interrupting the normal operation of permanently connected modems.
- 5. User Authentication The NCE shall support local users, Active Directory users, Microsoft Office 365 users and Remote Authentication Dial-in User Service (RADIUS).
- 6. Password Security Access to the embedded user interface shall require a password of 8 to 50 characters including a minimum of one lower case letter, one upper case letter, one number, and one special character. An alarm shall be generated after three unsuccessful attempts within 15 minutes and the user shall be denied access until permission is renewed by a system administrator.
- 7. Network Security Communication between the NCE and other system networked devices including additional Network Engines, Application and Data Servers, Open Data Servers (BACnet listed OWS), and user interface clients shall be encrypted and support HTTPS with Transport Level Security (TLS) Version 1.2. Self-signed certificates are to be provided with the option of configuring trusted certificates.
- 8. The NCE shall employ a finite state programming to eliminate unnecessary conflicts between control functions at crossover points in their operational sequences. Suppliers using non-state based DDC shall provide separate control strategy diagrams for all controlled functions in their submittals.
- 9. The NCE shall be factory programmed with a continuous adaptive tuning algorithm that senses changes in the physical environment and continually adjusts loop tuning parameters appropriately. Controllers that require manual tuning of loops or perform automatic tuning on command only, shall not be acceptable.
- 10. The NCE shall be assembled in a plenum-rated plastic housing with flammability rated to UL94-5VB.
- 11. The NCE shall support the following number and types of inputs and outputs:
  - a. Ten Universal Inputs shall be configured to monitor any of the following:
    - 1) Analog Input, Voltage Mode
    - 2) Analog Input, Current Mode
    - 3) Analog Input, Resistive Mode
    - 4) Binary Input, Dry Contact Maintained Mode
    - 5) Binary Input, Pulse Counter Mode
  - b. Eight Binary Inputs shall be configured to monitor either of the following:
    - 1) Dry Contact Maintained Mode
    - 2) Pulse Counter Mode
  - c. Four Analog Outputs shall be configured to output either of the following:
    - 1) Analog Output, Voltage Mode
    - 2) Analog Output, Current Mode
  - d. Seven Binary Outputs shall output the following:
    - 1) 24 VAC Triac
  - e. Four Configurable Outputs shall be configured to output either of the following:
    - 1) Analog Output, Voltage Mode
    - 2) Binary Output, 24 VAC Triac Mode

- 12. The NCE shall have the ability to monitor and control a network of sensors and actuators over a SA Bus.
  - a. The SA Bus shall be a MS/TP Bus supporting BACnet Standard protocol SSPC-135.
  - b. The SA Bus shall support a minimum of 10 devices.
  - c. The SA Bus shall operate at a maximum distance of 1,200 Ft. between the NCE and the furthest connected device.
- 13. The NCE shall have the capability to execute complex control sequences involving direct wired I/O points as well as input and output devices communicating over the Field Trunk or the SA Bus.
  - a. Lighting and electrical distribution.
  - b. Built-up air handling units for special applications.
  - c. Power generation and energy monitoring equipment.
  - d. Interfaces to security and fire detection systems.
- 14. The NCE shall support a Local Controller Display either as an integral part of the NCE or as a remote device communicating over the SA Bus.
  - a. The Display shall use a BACnet Standard SSPC-135 MS/TP protocol.
  - b. The Display shall allow the user to view monitored points without logging into the system.
  - c. The Display shall allow the user to view and change setpoints, modes of operation, and parameters.
  - d. The Display shall provide password protection with user adjustable password timeout.
  - e. The Display shall be menu driven with separate paths for:
    - 1) Input/Output
    - 2) Parameter/Setpoint
    - 3) Overrides
  - f. The Display shall use easy-to-read English text messages.
  - g. The Display shall allow the user to select the points to be shown and in what order.
  - h. The Display shall support a back lit LCD with adjustable contrast and brightens and automatic backlight brightening during user interaction.
  - i. The display shall be a minimum of 4 lines and a minimum of 20 characters per line.
  - j. The Display shall have a keypad with no more than 6 keys.
  - k. The Display shall be panel mountable.
- 15. The NCE shall be microprocessor-based with a minimum word size of 32 bits. The NAE shall be a multi-tasking, multi-user, and real-time digital control processor. Standard operating systems shall be employed. NCE size and capability shall be sufficient to fully meet the requirements of this Specification.
- 16. The NCE shall employ an industrial single board computer.
- 17. Each NCE shall have sufficient memory to support its own operating system, databases, and control programs, and to provide supervisory control for all control level devices.
- 18. The NCE shall include an integrated, hardware-based, real-time clock.
- 19. The NCE shall employ nonvolatile Flash memory to store all programs and data. The NCE shall employ a data protection battery to save data and power the real time clock when primary power is interrupted.
- 20. The NCE shall provide removable, color coded, screw terminal blocks for 24 VAC power, communication bus and I/O point field wiring.
- 21. The NCE shall include troubleshooting LED indicators to identify the following conditions:



- a. Power
- b. Fault
- c. SA Bus
- d. FC Bus
- e. Modem TX
- f. Modem RX
- g. Battery Fault
- h. Ethernet
- i. 10 LNK
- j. 100 LNK
- k. Run
- I. Peer Com
- 22. Communications Ports The NCE shall provide the following ports for operation of operator I/O devices, such as industry-standard computers, modems, and portable operator's terminals.
  - a. USB port
  - b. RS-232 serial data communication port
  - c. RS-485 port
  - d. RJ-45 Ethernet port
  - e. RJ-12 jack
- 23. Diagnostics The NCE shall continuously perform self-diagnostics, communication diagnosis, and diagnosis of all panel components. The Network Control Engine shall provide both local and remote annunciation of any detected component failures, low battery conditions, or repeated failures to establish communication.
- 24. Power Failure In the event of the loss of normal power, The NCE shall continue to operate for a user adjustable period of up to 10 minutes after which there shall be an orderly shutdown of all programs to prevent the loss of database or operating system software.
  - a. During a loss of normal power, the control sequences shall go to the normal system shutdown conditions. All critical configuration data shall be saved into Flash memory.
  - b. Upon restoration of normal power and after a minimum off-time delay, the controller shall automatically resume full operation without manual intervention through a normal soft-start sequence.
- 25. Certification The NCE shall be listed by UL. File E107041, CCN PAZX, UL 916, Energy Management Equipment. FCC Compliant to CFR47, Part 15, Subpart B, Class A.
- 26. Field Controller Bus The NCE shall support the following selectable communication protocols on the optional Field Controller Bus:
  - a. The NCE shall support BACnet Standard MS/TP Bus Protocol ASHRAE SSPC-135 on the controller network.
    - 1) The NCE shall be BTL certified and carry the BTL Label.
    - 2) The NAE shall be tested and certified as a BACnet Building Controller (B-BC).
    - 3) A BACnet Protocol Implementation Conformance Statement shall be provided for the NCE.
    - 4) The Conformance Statements shall be submitted 10 days prior to bidding.
    - 5) The NCE shall support a minimum of 32 control devices.



- b. The NCE shall support LonWorks enabled devices using the Free Topology Transceiver FTT10 on the Field Controller Bus (LonWorks Network).
  - 1) All LonWorks controls devices shall be LonMark certified.
  - 2) The NCE shall support a minimum of 32 LonWorks enabled control devices.
- c. The NCE shall support the N2 devices on the Field Controller Bus (Johnson Controls N2 Bus).
- 27. Provide Johnson Controls NCE25 or approved equal as shown on plans.
- 2.6 APPLICATION AND DATA SERVERS
  - A. Application and Data Server
    - 1. Existing to be reused.
- 2.7 DDC SYSTEM CONTROLLERS
  - A. Advanced Application Field Equipment Controller
    - 1. The Advanced Application Field Equipment Controller (FAC) shall be a fully userprogrammable, digital controller that communicates via BACnet MS/TP protocol.
      - a. The FAC shall support BACnet Standard MS/TP Bus Protocol ASHRAE SSPC-135.
        - 1) The FAC shall be BTL certified and carry the BTL Label.
        - 2) The FAC shall be tested and certified as a BACnet Advanced Application Controller (B-AAC).
        - 3) A BACnet Protocol Implementation Conformance Statement shall be provided for the FAC.
        - 4) The Conformance Statement shall be submitted 10 days prior to bidding.
    - 2. The FAC shall employ finite state programming to eliminate unnecessary conflicts between control functions at crossover points in their operational sequences. Suppliers using non-state based DDC shall provide separate control strategy diagrams for all controlled functions in their submittals.
    - 3. Controllers shall be factory programmed with a continuous adaptive tuning algorithm that senses changes in the physical environment and continually adjusts loop tuning parameters appropriately. Controllers that require manual tuning of loops or perform automatic tuning on command only shall not be acceptable. The FAC shall be assembled in a plenum-rated plastic housing with flammability rated to UL94-5VB.
    - 4. The FAC shall include an integral real-time clock and support time-based tasks which enables these field controllers to monitor and control:
      - a. Schedules.
      - b. Calendars.
      - c. Alarms.
      - d. Trends.
    - 5. The FAC can continue time-based monitoring when offline for extended periods of time from a network.



- 6. The FAC can operate as a stand-alone controller in applications that do not require a networked supervisory device or for network applications where it is preferred to have the scheduling, alarming, and/or trending performed locally in the field controllers.
- 7. The FAC shall include troubleshooting LED indicators to identify the following conditions (\*dependent on connection option):
  - a. Power On.
  - b. Power Off.
  - c. Download or Startup in progress, not ready for normal operation.
  - d. No Faults.
  - e. Device Fault.
  - f. Field Controller Bus Normal Data Transmission\*.
  - g. Field Controller Bus No Data Transmission\*.
  - h. Field Controller Bus No Communication\*.
  - i. SA Bus Normal Data Transmission.
  - j. SA Bus No Data Transmission.
  - k. SA Bus No Communication.
  - I. Ethernet\*.
- 8. The FAC shall accommodate the direct wiring of analog and binary I/O field points with the following minimum Analog to Digital (A/D) and Digital to Analog (D/A) conversion resolution.
  - a. Provide a minimum 15 bit A/D resolution for analog inputs.
  - b. Provide a minimum 15 bit D/A resolution for analog outputs.
- 9. The FAC shall support the following types of inputs and outputs supplied in the amounts required for the specified applications:
  - a. Universal Inputs shall be configured to monitor any of the following:
    - 1) Analog Input, Voltage Mode.
    - 2) Analog Input, Current Mode.
    - 3) Analog Input, Resistive Mode.
    - 4) Binary Input, Dry Contact Maintained Mode.
    - 5) Binary Input, Pulse Counter Mode.
  - b. Binary Inputs shall be configured to monitor either of the following:
    - 1) Dry Contact Maintained Mode.
    - 2) Pulse Counter Mode.
  - c. Analog Outputs shall be configured to output either of the following:
    - 1) Analog Output, Voltage Mode.
    - 2) Analog Output, Current Mode.
  - d. Binary Outputs shall output the following:
    - 1) Line-voltage relay outputs.
    - 2) 24 VAC Triac.
  - e. Configurable Outputs shall be capable of the following:
    - 1) Analog Output, Voltage Mode.



- 2) Binary Output Mode.
- f. The FC Bus shall be a MS/TP Bus supporting BACnet Standard protocol SSPC-135.
- g. The FC Bus shall support communications between the FACs and the NAE.
- h. The FC Bus shall also support Input/Output Module (IOM) communications with the FAC and with the NAE.
- i. The FC Bus shall support a minimum of 100 IOMs and FACs in any combination.
- j. The FC Bus shall operate at a maximum distance of 15,000 Ft. between the FAC and the furthest connected device.
- 10. The FAC shall support a Local Controller Display either as an integral part of the FAC or as a remote device communicating over the SA Bus.
  - a. The Display shall use a BACnet Standard SSPC-135 MS/TP protocol.
  - b. The Display shall allow the user to view monitored points without logging into the system.
  - c. The Display shall allow the user to view and change setpoints, modes of operation, and parameters.
  - d. The Display shall provide password protection with user adjustable password timeout.
  - e. The Display shall be menu driven with separate paths for:
    - 1) Input/Output.
    - 2) Parameter/Setpoint.
    - 3) Overrides.
  - f. The Display shall use easy-to-read English text messages.
  - g. The Display shall allow the user to select the points to be shown and in what order.
  - h. The Display shall support a back lit LCD with adjustable contrast and brightens and automatic backlight brightening during user interaction.
  - i. The display shall be a minimum of 4 lines and a minimum of 20 characters per line.
  - j. The Display shall have a keypad with no more than 6 keys.
  - k. The Display shall be panel mountable.
- 11. Provide Johnson Controls FAC or approved equal as shown on plans.

#### 2.8 FIELD DEVICES

- A. Actuators and Operators
  - 1. General Requirements
    - a. Damper actuators shall be electronic, as specified in the System Description section. Exact OEM equivalents of specified actuators/operators shall be acceptable if clearly identified in submittals.
    - b. The manufacturer shall be ISO 9001 certified.
  - 2. Electronic Damper Actuators
    - a. Spring Return Actuators:
      - 1) Manufactured, brand labeled or distributed by Johnson Controls or approved equal.
      - 2) Regulatory Agency Listing: cULus ,CSA C22.2 No. 24-93, and CE marked.



- 3) Direct-Coupled Design: Requires no crankarm or linkage for mounting to a shaft.
- 4) Coupling: toothed V-bolt clamp and nuts with toothed cradle.
- 5) Reversible Mounting: Provides either clockwise or counterclockwise operation.
- 6) Power Failure Operation: Mechanical spring return system drives load to the home position. Other forms of internal energy storage for power failure operation are not acceptable.
- 7) Motor Technology:
  - a) Modulating Types: Microprocessor-controlled Brushless DC motor.
  - b) On/Off Types: DC brush motor.
- 8) Overload Protection: Electronic stall detection protects from overload at all angles of rotation without the use of end switches.
- 9) Enclosure Ratings:
  - a) NEMA type 2 / IP54 mounted in any orientation.
- 10) Double-Insulated construction: Eliminate the need for electrical ground wires.
- 11) Wiring: Integral cables with colored and numbered conductors.
- 12) Sized for torque required to seal damper at load conditions.
- 13) Parallel Operation: Actuators shall be available that are capable of being mechanically or electrically paralleled.
- 14) Proportional actuators shall be user configurable without the use of external computer software or programming tools. Calibration, input signal range selection, and control logic reversal shall be selectable with an external mode selection switch.
- 15) Operating Temperature Range:
  - a) 70 lb<sup>-</sup>in. Torque and below: -40°F to 140°F.
  - b) 71 lb<sup>-</sup>in. Torque and above: -40°F to 131°F.
- 16) Power Requirements:
  - a) Modulating Types:
    - i. 27 lb<sup>-</sup>in. Torque and Below: 5VA maximum.
    - ii. 70 lb<sup>-</sup>in. to 19 lb<sup>-</sup>in.Torque: 8VA maximum.
    - iii. 89 lb<sup>-</sup>in. to 71 lb<sup>-</sup>in.Torque: 10VA maximum.
    - iv. 90 lb in. to 177 lb in. Torque: 16VA maximum.
  - b) 2-Position Types:
    - i. 27 lb<sup>-</sup>in. Torque and Below: 5VA maximum.
    - ii. 70 lb<sup>-</sup>in. to 19 lb<sup>-</sup>in.Torque: 7VA maximum.
    - iii. 71 lb in. to 177 lb in. Torque: 25VA maximum.
- b. Non-Spring Return Actuators
  - 1) Manufactured, brand labeled or distributed by Johnson Controls or approved equal.
  - 2) Regulatory Agency: Underwriters Laboratories (UL) Listed, CSA Certified, and CE marked.

- 3) Direct-Coupled Design: Requires no crank arm or linkage for mounting to a shaft.
- 4) Coupling:
  - a) Above 80 lb. in.: toothed V-bolt clamp and nuts with toothed cradled.
  - b) 80 lb. in. and below: single cup-point set screw and toothed cradle.
- 5) Overload Protection: Electronic stall detection or magnetic slip clutch protects from overload at all angles of rotation without the use of end switches.
- 6) Minimum Enclosure Ratings:
  - a) Types with covered wiring terminals: NEMA type 2 / IP42 mounted in any orientation.
  - b) Types without covered wiring terminals: NEMA type 1 / IP30 or IP40.
  - c) Types with integrated cables: NEMA 2 / IP42 mounted in any orientation.
- 7) Sized for torque required to seal damper at load conditions.
- 8) Parallel Operation: Actuators shall be available that are capable of being mechanically or electrically paralleled.
- 9) Proportional actuators shall be user configurable without the use of external computer software or programming tools.
- 10) Operating Temperature Range: -4°F to 122°F except for VAV and similar indoor applications in which case 32°F to 122°F is acceptable.
- 11) Power Requirements: 24 V with models available for both 24 VAC and 24 VDC operation, maximum:
  - a) Above 80 lb. in.: 7.5 VA at 24 VAC.
  - b) 80 lb. in. and below: 3.5 VA at 24 VAC.
- 12) The manufacturer shall provide 5-year limited warranty from the date of sale covering defects in material or workmanship.
- B. Sensors and Transmitters
  - 1. General Requirements
    - a. Installation, testing, and calibration of all sensors, transmitters, and other input devices shall be provided to meet the system requirements. Exact OEM equivalents of specified sensors and transmitters shall be acceptable if clearly identified in submittals.
  - 2. Temperature Sensors
    - a. General Requirements
      - 1) Sensors and transmitters shall be provided, as outlined in the input/output summary and sequence of operations.
      - 2) The temperature sensor shall be of the resistance type, and shall be either two-wire 1000 ohm nickel RTD, or two-wire 1000 ohm platinum RTD. Thermistor sensors of 10,000 or 2,250 ohms resistance may be substituted based on the application.



3) The following point types (and the accuracy of each) are required, and their associated accuracy values include errors associated with the sensor, lead wire, and A to D conversion.

Point Type	Accuracy		
Room Temp	+ .5°F		
Duct Temperature	+ .5°F		
All Others	+ .75°F		

- b. Room Temperature Sensors
  - 1) Room sensors shall be constructed for either surface or wall box mounting.
  - 2) Room sensors shall have the following options when specified:
    - a) Setpoint warmer/cooler.
    - b) Individual heating/cooling setpoint.
    - c) Momentary override request for activation of after-hours operation.
    - d) Analog thermometer.
- c. Room Temperature Sensors with Integral Display
  - 1) Room sensors shall be constructed for either surface or wall box mounting.
  - 2) Room sensors shall have an integral LCD display and the following capabilities when specified:
    - a) Display room air temperatures.
    - b) Display and adjust room comfort setpoint.
    - c) Display and adjust fan operation status.
    - d) Setpoint override request via setpoint adjust dial or buttons.
    - e) Timed override request via occupancy override with status indication for activation of after-hours setpoint operation.
    - f) Occupancy sensor status.
    - g) Toggle between Degrees F and Degrees C.
    - h) Toggle between temperature and humidity where specified.
- d. Thermowells
  - 1) Thermowell manufacturer shall have models available in stainless steel, brass body, and copper bulb.
  - 2) When thermowells are required, the sensor and well shall be supplied as a complete assembly, including wellhead and sensor.
  - 3) Thermowells shall be pressure rated and constructed in accordance with the system working pressure.
  - 4) Thermowells and sensors shall be mounted in a direct mount (no adapter) offering faster installation or 1/2" NFT saddle and allow easy access to the sensor for repair or replacement.
  - 5) Thermowells constructed of 316 stainless steel shall comply with Canadian Registration Number (CRN) pressure vessel rating.
- e. Outside Air Sensors
  - 1) Outside air sensors shall be designed to withstand the environmental conditions to which they will be exposed. They shall be provided with a solar shield.



- 2) Sensors exposed to wind velocity pressures shall be shielded by a perforated plate that surrounds the sensor element.
- 3) Temperature transmitters shall be of NEMA 3R (IP54) or NEMA 4 (IP65) construction and rated for ambient temperatures.
- 4) The outdoor sensor shall be capable of being mounted on a roof, pole or side of a building utilizing its preassembled mounting bracket.
- 5) Outside air relative humidity sensors 0-100% full range of accurate measurement. Operating temperature -4 to 140°F (-20 to 60°C).
- 6) Outside air temperature sensors operating temperature range -40 to 140°F, +/- .55°F (+/- .3°C).
- f. Duct Mount Sensors
  - 1) Duct mount sensors shall mount in an electrical box through a hole in the duct, positioned to provide ease of accessibility for repair or replacement.
  - 2) Duct sensors shall be insertion type and constructed as a complete assembly, including lock nut and mounting plate.
  - 3) For outdoor air duct applications, a weatherproof mounting box with weatherproof cover and gasket shall be provided.
- g. Averaging Sensors
  - 1) For ductwork greater in any dimension that 48 inches and/or where air temperature stratification exists, an averaging sensor with multiple sensing points shall be used.
  - 2) For plenum applications, such as mixed air temperature measurements, a continuous averaging sensor or a string of sensors mounted across the plenum shall be used to account for stratification and/or air turbulence. The averaging string shall have a minimum of 4 sensing points per 12-foot long segment.
  - 3) Capillary supports at the sides of the duct shall be provided to support the sensing string.
- h. Acceptable Manufacturers: Johnson Controls, Minco.
- 3. Humidity Sensors
  - a. The sensor shall be a solid-state type, relative humidity sensor of the Thin Film Capacitance or Bulk Polymer Design. The sensor element shall resist service contamination.
  - b. The humidity transmitter shall be equipped with non-interactive span and zero adjustments, a 2-wire isolated loop powered, 4-20 mA, 0-100% linear proportional output.
  - c. The humidity transmitter shall meet the following overall accuracy, including lead loss and Analog to Digital conversion. 3% between 20% and 80% RH at 77°F unless specified elsewhere.
  - d. Outside air relative humidity sensors shall be installed with a rain proof, perforated cover. The transmitter shall be installed in a NEMA 3R (IP54) or NEMA 4 (IP65) enclosure with sealtite fittings.
  - e. A single point humidity calibrator shall be provided, if required, for field calibration. Transmitters shall be shipped factory pre-calibrated.
  - f. Duct type sensing probes shall be constructed of 304 stainless steel, and shall be equipped with a neoprene grommet, bushings, and a mounting bracket.
  - g. Acceptable Manufacturers: Johnson Controls and Vaisala.
- 4. CO<sub>2</sub> Sensors

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- a. Where shown on the drawings, CO<sub>2</sub> sensors shall have the following features:
  - 1) Jumper selectable: 0-20mA, 4-20mA & 0-10 VDC output.
  - 2) Liquid Crystal Display (LCD).
- b. The CO<sub>2</sub> sensors shall have the ability to monitor and output the following variables as required by the systems sequence of operations:
  - 1) Zone CO<sub>2</sub>.
- c. The CO<sub>2</sub> shall transmit the information back to the controller via jumper selectable 0-20mA, 4-20mA & 0-10 VDC output signals:
  - 1) The CO<sub>2</sub> sensors shall provide a maximum output current of 25mA; Maximum output voltage of 12.5V.
  - 2) The CO<sub>2</sub> sensors shall be FCC compliant to CFR47 Part 15 subpart B Class A.
- d. The CO<sub>2</sub> sensors shall be available with:
  - 1) CO<sub>2</sub> response time (0-63%) of 1 minute.
  - 2) Less than 0.083% of full scale/°F temperature dependence of CO<sub>2</sub> output.
  - 3) Long term  $CO_2$  stability ±5% of full scale for 5 years.
  - 4)  $CO_2$  measurement accuracy of  $\pm(40$  ppm + 2.0% of reading.)
  - 5)  $CO_2$  non-linearity of less than 1.0% of full scale.
- e. The CO<sub>2</sub> sensors may include the following items:
  - 1) Relay output module.
  - 2) LCD module.
  - 3) Analog temperature module with linear 0-10 VDC output for 32-122F.
- 5. Differential Pressure Transmitters
  - a. General Air Pressure Transmitter Requirements:
    - 1) Pressure transmitters shall be constructed to withstand 100% pressure over-range without damage, and to hold calibrated accuracy when subject to a momentary 40% over-range input.
    - 2) Pressure transmitters shall transmit a 0 to 5 VDC, 0 to 10 VDC, or 4 to 20 mA output signal.
    - A minimum of a NEMA 1 housing shall be provided for the transmitter. Transmitters shall be located in accessible local control panels wherever possible.
  - b. Building Differential Air Pressure Applications (-1" to +1" WC):
    - 1) The differential pressure transmitter shall be of industrial quality and transmit a linear, 4 to 20 mA output in response to variation of differential pressure or air pressure sensing points.
    - 2) The differential pressure transmitter shall have non-interactive zero and span adjustments that are adjustable from the outside cover and meet the following performance specifications:



- a) -1.00 to +1.00 WC input differential pressure ranges. (Select range appropriate for system application.)
- b) 4-20 mA output.
- c) Maintain accuracy up to 20 to 1 ratio turndown.
- d) Reference Accuracy: +0.2% of full span.
- e) Acceptable Manufacturers: Johnson Controls or approved equal.
- c. Low Differential Air Pressure Applications (0" to 2.5" WC):
  - 1) The differential pressure transmitter shall be of industrial quality and transmit a linear, 4 to 20 mA output in response to variation of differential pressure or air pressure sensing points.
  - 2) The differential pressure transmitter shall have non-interactive zero and span adjustments that are adjustable from the outside cover and meet the following performance specifications.
    - a) (0.00 1.00" to 5.00") WC input differential pressure ranges. (Select range appropriate for system application.)
    - b) 4-20 mA, 0-5 VDC, 0-10 VDC output.
    - c) Maintain accuracy up to 20/1 ratio turndown.
    - d) Reference Accuracy: +0.25%, or 0.5% of full span.
  - 3) Acceptable Manufacturers: Johnson Controls and Ruskin.
- d. Medium Differential Air Pressure Applications (5" to 21" WC):
  - 1) The pressure transmitter shall be similar to the Low Air Pressure Transmitter, except that the performance specifications are not as severe. Differential pressure transmitters shall be provided that meet the following performance requirements.
    - a) Zero & span: (c/o F.S./Deg. F): .04% including linearity, hysteresis and repeatability.
    - b) Accuracy: 1% F.S. (best straight line) Static Pressure Effect: 0.5% F.S. (to 100 psig.
    - c) Thermal Effects: <+.033 F.S./Deg. F. over 40°F to 100°F (calibrated at 70°F.)
  - 2) Acceptable manufacturers: Johnson Controls and Ruskin.
- 6. Flow Monitoring
  - a. Air Flow Monitoring
    - 1) Fan Inlet Air Flow Measuring Stations
      - a) At the inlet of each fan and near the exit of the inlet sound trap, airflow sensors shall be provided that shall continuously monitor the fan air volumes or velocity pressure.
      - b) Each sensor shall be surface mount type. Unit shall be capable of monitoring and reporting the airflow and temperature at each fan inlet location through two or four sensing circuits. If a static pressure manifold is used, it shall incorporate dual offset static tips on the opposing sides of the averaging manifold so as to be insensitive to flow-angle variations of as much as + 20° in the approaching air stream.



- c) Devices creating fan performance degradation, resulting in additional energy consumption, caused from pressure drop associated with probes or mounting apparatus in the center of the fan inlet are not allowed. The device shall not induce a significant pressure drop, nor shall the sound level within the duct be amplified by its singular or multiple presence in the air stream. Sensor circuit casings shall be constructed of U.L. 94 flame rated high impact ABS and include a stainless steel thermistor cap that maintains the precise calibrated flow over the heated and ambient measurement points.
- d) Acceptable manufacturers: Johnson Controls, Air Monitor Corp., Tek-Air Systems, Inc., or Dietrich Standard.
- 2) Single Probe Air Flow Measuring Sensor
  - a) The single probe airflow-measuring sensor shall be duct mounted with an adjustable sensor insertion length of up to eight inches. The transmitter shall produce a 4-20 mA or 0-10 VDC signal linear to air velocity. The sensor shall be a thermal dispersion and utilize one temperature sensor and a heated thermistor. The sensor pair shall measure the air temperature and airflow velocity.
- 3) Duct Air Flow Measuring Stations
  - a) Furnish and install, at locations shown on plans or as in accordance with schedules, an equalized air measuring probe system piped to a high performance pressure transducer or an electronic type airflow temperature measuring station.
  - b) Each device shall be designed and built in order to comply with, and provide results in accordance with, accepted practice as defined for system testing in the ASHRAE Handbook of fundamentals, as well as in the Industrial Ventilation Handbook.
  - c) Assembly shall be AMCA tested and capable of measuring a range from 70 to 5,000 FPM (22 to 1524 MPM).
  - d) Equalized air measuring assembly shall measure to  $\pm 3\%$  average and consist of 6063T5 extruded aluminum step sensing blade(s) with anodized finish, plenum-rated polyethylene pressure tubing, brass barbed fittings, mounting hardware and a glass-on-silicone capacitance sensor pressure transducer capable of measuring up to five field-selectable pressure ranges up to 2.5 in. WC.
  - e) The transducer shall be accurate to ±0.5%, or 0.25% of full scale and be contained in a National Electrical Manufacturer's Association (NEMA) 4 (IP-65) enclosure. Transducer shall be factory mounted and piped to high and low pressure ports through fittings made of brass.
  - f) All sensor tubing shall terminate in solid brass barbed fittings.
  - g) Total and static pressure manifolds shall terminate with external ports for connection to control tubing. An identification label shall be present on each unit casing, listing model number, size, area, and airflow capacity.
  - h) Air straightener shall be provided for sizes over 17 square feet (1.6 sq meter).
  - Airflow measuring station assemblies shall be fabricated of galvanized steel or aluminum casing of appropriate thickness for slip fits or with 90 Deg. connecting flanges in configuration and size equal to that of the duct into which it is mounted. Each station shall be complete with an air directionalizer and parallel cell profile suppressor

(3/4" maximum cell) across the entering air stream and mechanically fastened to the casing in such a way to withstand velocities up to 5000 feet per minute.

- j) Electronic air measuring station shall be capable of monitoring and reporting the airflow and temperature at each measuring location through one or more measuring probes containing multiple sensor points and a control transmitter that outputs a 4-20 mA linear signal.
- k) Probe(s) shall be constructed of an airfoil shaped aluminum extrusion containing the sensor circuit(s).
- I) Each sensor circuit shall consist of coated thermistors, for temperature and velocity, mounted to a Printed Circuit Board (PCB). Multiplexer board shall be encased to prevent moisture damage.
- m) Control transmitter shall be capable of processing independent sensing points and shall operate on a fused 24 VAC supply.
- n) Control transmitter shall feature a 16 x 2 character alphanumeric LCD screen, digital offset/gain adjustment, continuous performing sensor/transmitter diagnostics, and a visual alarm to detect malfunctions.
- o) Installation Considerations
  - i. The maximum allowable pressure loss through the Flow and Static Pressure elements shall not exceed .04" WC at 1000 feet per minute, or .11" WC at 2000 feet per minute. Each unit shall measure the airflow rate within an accuracy of plus 3-5% as determined by AMCA.
  - ii. Where the stations are installed in insulated ducts, the airflow passage of the station shall be the same size as the inside airflow dimension of the duct. Station flanges shall be 1.5 inches to facilitate matching connecting ductwork.
  - iii. Where control dampers are provided as part of the airflow measuring station, parallel blade precision controlled volume dampers integral to the station and complete with actuator, and linkage shall be provided.
  - iv. Stations shall be installed in strict accordance with the manufacturer's published requirements, and in accordance with ASME Guidelines affecting non-standard approach conditions.
- p) All air measuring devices shall be tested according to AMCA Standard 610.
- q) Acceptable manufacturers: Johnson Controls, Air Monitor Corp., Tek-Air, Ruskin, and Dietrich Standard.
- 4) Static Pressure Traverse Probe
  - a) Duct static traverse probes shall be provided where required to monitor duct static pressure. The probe shall contain multiple static pressure sensors located along exterior surface of the cylindrical probe.
  - b) Acceptable manufacturers: Cleveland Controls.
- 5) Shielded Static Air Probe
  - a) Where indicated on plans or in schedules a shielded static pressure probe shall be provided at each end of the building. The probe shall have multiple sensing ports, an impulse suppression chamber, and airflow shielding.



- 7. Power Monitoring Devices
  - a. Current Measurement (amps)
    - Current measurement shall be by a combination current transformer and a current transducer. The current transformer shall be sized to reduce the full amperage of the monitored circuit to a maximum 5 Amp signal, which will be converted to a 4-20 mA DDC compatible signal for use by the Facility Management System.
    - 2) Current Transformer A split core current transformer shall be provided to monitor motor amps.
      - a) Operating frequency 50 400 Hz.
      - b) Insulation 0.6 Kv class 10Kv BIL.
      - c) UL recognized.
      - d) Five amp secondary.
      - e) Select current range as appropriate for application.
      - f) Acceptable manufacturers: Setra.
    - 3) Current Transducer A current to voltage or current to mA transducer shall be provided. The current transducer shall include:
      - a) 6X input over amp rating for AC inrushes of up to 120 amps.
      - b) Manufactured to UL 1244.
      - c) Accuracy: +.5%, Ripple +1%.
      - d) Minimum load resistance 30kOhm.
      - e) Input 0-20 amps.
      - f) Output 4-20 mA.
      - g) Transducer shall be powered by a 24 VDC regulated power supply (24 VDC +5%).
      - h) Acceptable manufacturers: Setra.
- 8. Smoke Detectors
  - a. Ionization type air duct detectors shall be furnished as specified elsewhere in Division 26 for installation under Division 23. All wiring for air duct detectors shall be provided under Division 26, Fire Alarm System.
- 9. Status and Safety Switches
  - a. General Requirements
    - Switches shall be provided to monitor equipment status, safety conditions, and generate alarms at the Building Management System (BMS) when a failure or abnormal condition occurs. Safety switches shall be provided with two sets of contacts and shall be interlock wired to shut down respective equipment.
  - b. Current Sensing Switches
    - The current sensing switch shall be self-powered with solid-state circuitry and a dry contact output. It shall consist of a current transformer, a solid state current sensing circuit, adjustable trip point, solid state switch, SPDT relay, and an LED indicating the on or off status. A conductor of the load



shall be passed through the window of the device. It shall accept overcurrent up to twice its trip point range.

- 2) Current sensing switches shall be used for run status for fans, pumps, and other miscellaneous motor loads.
- 3) Current sensing switches shall be calibrated to show a positive run status only when the motor is operating under load. A motor running with a broken belt or coupling shall indicate a negative run status.
- 4) Acceptable manufacturers: Johnson Controls or approved equal.
- c. Air Filter Status Switches
  - 1) Differential pressure switches used to monitor air filter status shall be of the automatic reset type with SPDT contacts rated for 2 amps at 120VAC.
  - 2) A complete installation kit shall be provided, including: static pressure tops, tubing, fittings, and air filters.
  - 3) Provide appropriate scale range and differential adjustment for intended service.
  - 4) Acceptable manufacturers: Johnson Controls, Cleveland Controls.
- d. Air Flow Switches
  - 1) Differential pressure flow switches shall be bellows actuated mercury switches or snap acting micro-switches with appropriate scale range and differential adjustment for intended service.
  - 2) Acceptable manufacturers: Johnson Controls, Cleveland Controls.
- e. Air Pressure Safety Switches
  - 1) Air pressure safety switches shall be of the manual reset type with SPDT contacts rated for 2 amps at 120VAC.
  - 2) Pressure range shall be adjustable with appropriate scale range and differential adjustment for intended service.
  - 3) Acceptable manufacturers: Johnson Controls, Cleveland Controls.
- 10. Control Relays
  - a. Control Pilot Relays
    - 1) Control pilot relays shall be of a modular plug-in design with retaining springs or clips.
    - 2) Mounting Bases shall be snap-mount.
    - 3) DPDT, 3PDT, or 4PDT relays shall be provided, as appropriate for application.
    - 4) Contacts shall be rated for 10 amps at 120VAC.
    - 5) Relays shall have an integral indicator light and check button.
    - 6) Acceptable manufacturers: Johnson Controls, Lectro.
  - b. Lighting Control Relays
    - 1) Lighting control relays shall be latching with integral status contacts.
    - 2) Contacts shall be rated for 20 amps at 277 VAC.
    - 3) The coil shall be a split low-voltage coil that moves the line voltage contact armature to the On or Off latched position.
    - 4) Lighting control relays shall be controlled by:



- a) Pulsed Tristate Output Preferred method.
- b) Pulsed Paired Binary Outputs.
- c) A Binary Input to the Facility Management System shall monitor integral status contacts on the lighting control relay. Relay status contacts shall be of the "dry-contact" type.
- 5) The relay shall be designed so that power outages do not result in a change-of-state, and so that multiple same state commands will simply maintain the commanded state. Example: Multiple Off command pulses shall simply keep the contacts in the Off position.
- 11. Electronic Signal Isolation Transducers
  - a. A signal isolation transducer shall be provided whenever an analog output signal from the BMS is to be connected to an external control system as an input, or is to receive as an input signal from a remote system.
  - b. The signal isolation transducer shall provide ground plane isolation between systems.
  - c. Signals shall provide optical isolation between systems.
  - d. Acceptable manufacturers: Advanced Control Technologies.
- 12. Thermostats Electric
  - a. Electric room thermostats of the heavy-duty type shall be provided for unit heaters, cabinet unit heaters, and ventilation fans, where required. All these items shall be provided with concealed adjustment. Finish of covers for all room-type instruments shall match and, unless otherwise indicated or specified, covers shall be manufacturer's standard finish.
  - b. Acceptable Manufacturers: Penn, Emerson, Honeywell.
- C. Control Dampers
  - 1. The BMS Contractor shall furnish all automatic dampers. All automatic dampers shall be sized for the application by the BMS Contractor or as specifically indicated on the drawings. Dampers provided with the air handlers and direct outside air units to be provided with the units.
  - 2. All dampers used for throttling airflow shall be of the opposed blade type arranged for normally open or normally closed operation, as required. The damper is to be sized so that, when wide open, the pressure drop is a sufficient amount of its close-off pressure drop to shift the characteristic curve to near linear.
  - 3. All dampers used for two-position, open/close control shall be parallel blade type arranged for normally open or closed operation, as required.
  - 4. Damper frames and blades shall be constructed of either galvanized steel or aluminum. Maximum blade length in any section shall be 60". Damper blades shall be 16-gauge minimum and shall not exceed eight (8) inches in width. Damper frames shall be 16gauge minimum hat channel type with corner bracing. All damper bearings shall be made of reinforced nylon, stainless steel or oil-impregnated bronze. Dampers shall be tight closing, low leakage type, with synthetic elastomer seals on the blade edges and flexible stainless steel side seals. Dampers of 48"x48" size shall not leak in excess of 8.0 cfm per square foot when closed against 4" WC static pressure when tested in accordance with AMCA Std. 500.
  - 5. Airfoil blade dampers of double skin construction with linkage out of the air stream shall be used whenever the damper face velocity exceeds 1500 FPM or system pressure exceeds 2.5" WC, but no more than 4000 FPM or 6" WC.

- a. Acceptable manufacturers are Johnson Controls VD-1250, VD1630, or VD-1330, Ruskin CD50 or CD60, and Vent Products 5650.
- 6. One piece rolled blade dampers with exposed or concealed linkage may be used with face velocities of 1500 FPM or below.
  - a. Acceptable manufacturers: Johnson Controls VD-1620, VD-1320, Ruskin CD36, and Vent Products 5800.
- 7. Multiple section dampers may be jack-shafted to allow mounting of direct connect electronic actuators. Each end of the jackshaft shall receive at least one actuator to reduce jackshaft twist.
- D. Advanced Application VAV Modular Assembly
  - 1. The Advanced Application VAV Modular Assembly (AVMA) shall provide both standalone and networked DDC of pressure-independent, VAV terminal units.
  - 2. The AVMA shall be BTL certified and carry the BTL Label.
    - a. The AVMA shall be tested and certified as a BACnet Advanced Application Controller (B-AAC).
    - b. A BACnet Protocol Implementation Conformance Statement shall be provided for the AVMA.
    - c. The Conformance Statement shall be submitted 10 days prior to bidding.
  - 3. The AVMA shall communicate over the Automation Network in compliance with BACnet IPv4 and supporting BACnet Protocol Revision 12 (PR12).
  - 4. The AVMA shall include an integral real-time clock and support time-based tasks that enables these field controllers to monitor and control:
    - a. Schedules.
    - b. Calendars.
    - c. Alarms.
    - d. Trends.
  - 5. The AVMA can continue time-based monitoring for extended periods when offline from an Automation Network.
  - 6. The AVMA can operate as a stand-alone controller in applications that do not require a networked supervisory device or for network applications where it is preferred to have the scheduling, alarming, and/or trending performed locally in the field controllers.
  - 7. The AVMA shall have internal electrical isolation for MS/TP communications.
  - 8. The AVMA shall be a configurable digital controller with integral differential pressure transducer and damper actuator. All components shall be connected and mounted as a single assembly, removable as one piece.
  - 9. The AVMA shall be assembled in a plenum-rated plastic housing with flammability rated to UL94-5VB or the controller is designed and suitable for use in other environmental air space (plenums) in accordance with Section 300.252(C) of the National Electrical Code.
  - 10. The integral damper actuator shall be a fast response stepper motor capable of stroking 90 degrees in 60 seconds for quick damper positioning to speed commissioning and troubleshooting tasks.
  - 11. The controller shall determine airflow by a state-of-the-art digital non-flow pressure sensor to provide 14-bit resolution with bidirectional flow operation that supports automatic correction for polarity on high- and low-pressure DP tube connections; this pressure sensor eliminates high- and low-pressure connection mistakes.


- 12. Each controller shall have the ability to automatically calibrate the flow sensor to eliminate pressure transducer offset error due to ambient temperature / humidity effects.
- 13. The controller shall utilize a proportional plus integration (PI) algorithm for the space temperature control loops.
- 14. Each controller shall continuously, adaptively tune the control algorithms to improve control and controller reliability through reduced actuator duty cycle. In addition, this tuning reduces commissioning costs, and eliminates the maintenance costs of manually re-tuning loops to compensate for seasonal or other load changes.
- 15. The controller shall provide the ability to download and upload configuration files, both locally and via the communications network. Controllers shall be able to be loaded individually or as a group.
- 16. Control setpoint changes initiated over the network shall be written to VMA non-volatile memory to prevent loss of setpoint changes and to provide consistent operation in the event of communication failure.
- 17. The controller firmware shall be flash-upgradeable remotely via the communications bus.
- 18. The controller shall provide fail-soft operation if the airflow signal becomes unreliable, by automatically reverting to a pressure-dependent control mode.
- 19. The controller shall interface with balancer tools that allow automatic recalculation of box flow pickup gain ("K" factor), and the ability to directly command the airflow control loop to the box minimum and maximum airflow setpoints.
- 20. Controller shall have on-board diagnostics. These diagnostics shall consist of control loop performance measurements executing at each control loop's sample interval, which may be used to continuously monitor and document system performance. The AVMA shall calculate Exponentially Weighted Moving Averages (EWMA) for each of the following. These metrics shall be available to the end user for efficient management of the VAV terminals.
  - a. Absolute temperature loop error.
  - b. Signed temperature loop error.
  - c. Absolute airflow loop error.
  - d. Signed airflow loop error.
  - e. Average damper actuator duty cycle
- 21. The controller shall detect system error conditions to assist in managing the VAV zones. The error conditions shall consist of:
  - a. Unreliable space temperature sensor.
  - b. Unreliable differential pressure sensor.
  - c. Starved box.
  - d. Actuator stall.
  - e. Insufficient cooling.
  - f. Insufficient heating.
- 22. The controller shall provide a flow test function to view damper position vs. flow in a graphical format. The information would alert the user to check damper position. The AVMA would also provide a method to calculate actuator duty cycle as an indicator of damper actuator runtime.
- 23. The controller shall provide a compliant interface for ASHRAE Standard 62-1989 (indoor air quality), and shall be capable of resetting the box minimum airflow based on the percent of outdoor air in the primary air stream.
- 24. The controller shall comply with ASHRAE Standard 90.1 (energy efficiency) by preventing simultaneous heating and cooling, and where the control strategy requires reset of airflow while in reheat, by modulating the box reheat device fully open prior to increasing the airflow in the heating sequence.
- 25. Inputs:



- a. Analog inputs with user-defined ranges shall monitor the following analog signals, without the addition of equipment outside the terminal controller cabinet:
  - 1) 0-10 VDC Sensors
  - 2) 1000ohm RTDs
  - 3) NTC Thermistors
- b. The AVMA shall provide minimum 15 bit A/D resolution of Analog Inputs.
- c. Binary inputs shall monitor dry contact closures. Input shall provide filtering to eliminate false signals resulting from input "bouncing."
- d. Binary inputs shall meet applicable CE noise immunity standards. The inputs shall be resilient against faults from power and output circuits as well as isolated from communications ports.
- 26. Outputs
  - a. Analog outputs shall provide 0-10V DC output with 24 VAC miswiring protection. The AVMA shall provide minimum 15 bit D/A resolution of Analog outputs.
  - b. Binary outputs shall provide a SPST Triac output rated for 500mA at 24 VAC utilizing isolated drive circuitry.
  - c. Outputs shall meet applicable CE noise immunity standards.
- 27. Application Configuration
  - a. The AVMA shall be configured with a software tool that provides a simple Question/Answer format for developing applications and downloading.
- 28. Sensor Support
  - a. The AVMA shall communicate over the SA Bus with a Network Sensor.
  - b. The AVMA shall support an LCD display room sensor.
  - c. The AVMA shall also support standard room sensors as defined by analog input requirements.
  - d. The AVMA shall support humidity sensors defined by the AI side loop.
- 29. Provide Johnson Controls VMA or approved equal as shown on plans.
- E. Input/Output Module
  - 1. The Input/Output Module (IOM) provides additional inputs and outputs for use in digital controllers.
  - 2. The IOM shall communicate with controllers over the FC Bus or the SA Bus.
  - 3. The IOM shall support BACnet Standard MS/TP Bus Protocol ASHRAE SSPC-135.
    - a. The IOM shall be BTL certified and carry the BTL Label.
    - b. The IOM shall be tested and certified as a BACnet Application Specific Controller (B-ASC).
    - c. A BACnet Protocol Implementation Conformance Statement shall be provided for the IOM.
    - d. The Conformance Statement shall be submitted 10 days prior to bidding.
  - 4. The IOM shall be assembled in a plenum-rated plastic housing with flammability rated to UL94-5VB.
  - 5. The IOM shall have a minimum of 4 points to a maximum of 17 points.
  - 6. The IOM shall support the following types of inputs and outputs:



- a. Universal Inputs shall be configured to monitor any of the following:
  - 1) Analog Input, Voltage Mode.
  - 2) Analog Input, Current Mode.
  - 3) Analog Input, Resistive Mode.
  - 4) The IOM shall provide minimum 15 bit A/D resolution of analog inputs.
  - 5) Binary Input, Dry Contact Maintained Mode.
  - 6) Binary Input, Pulse Counter Mode.
- b. Binary Inputs shall be configured to monitor either of the following:
  - 1) Dry Contact Maintained Mode.
  - 2) Pulse Counter Mode.
- c. Analog Outputs shall be configured to output either of the following:
  - 1) Analog Output, Voltage Mode.
  - 2) Analog Output, current Mode.
  - 3) The IOM shall provide minimum 15 bit D/A resolution of analog outputs.
- d. Binary Outputs shall output the following:
  - 1) 24 VAC Triac.
- e. Configurable Outputs shall be capable of the following:
  - 1) Analog Output, Voltage Mode.
  - 2) Binary Output Mode.
- 7. The IOM shall include troubleshooting LED indicators to identify the following conditions:
  - a. Power On.
  - b. Power Off.
  - c. Download or Startup in progress, not ready for normal operation.
  - d. No Faults.
  - e. Device Fault.
  - f. Normal Data Transmission.
  - g. No Data Transmission.
  - h. No Communication.
- 8. Provide Johnson Controls IOM or approved equal as shown on plans.
- F. VRF Smart Gateway
  - 1. BACnet: The VRF Smart Gateway shall provide a BACnet IP extension of the Hitachimade Variable Refrigerant Flow (VRF) outdoor units and indoor units that natively communicate using an H-LINK I/II serial network.
    - a. BACnet device and point objects from the VRF units shall be presented to the BMS in an organized, consistent manner for quick and easy integration.
    - b. Provide sufficient point data from the VRF indoor units over BACnet IP.
      - 1) Control functions over BACnet IP shall include on/off, operational mode [cool, heat, fan, dry, auto], room temperature set point, fan speed, enabling or disabling remote controller operations, and resetting dirty filter status.



- 2) Monitoring points over BACnet IP shall include reporting actual operational mode [cool, heat, fan, dry], current room temperature, actual fan speed, filter status, expansion valve position, supply liquid and gas pipe temperatures, return air and discharge air temperatures, coil differential temperature, requested compressor speed, and indoor unit alarm status and alarm code.
- c. Provide sufficient point data from the VRF outdoor units over BACnet IP.
  - 1) Monitoring points over BACnet IP shall include system mode [heat, cool, auto] and status, heat exchanger state, inverter state and status, fan state and status, inverter and compressor hours of operation, inverter compressor and total frequencies, fan output level, expansion valve position, discharge and suction pressures, outdoor air temperature, inverter compressor current draw, inverter compressor top temperature, defrost status, emergency status, and alarm and protection codes.
- d. Support 64 refrigerant systems, 160 indoor units, and a combined 200 indoor and outdoor units.
- e. Be a BACnet certified/listed device.
- f. Serve as a BACnet BBMD device to integrate VRF system networks across IP subnets.
- 2. Communications: The VRF Smart Gateway Shall include a connection for the H-LINK network that is used to connect to the VRF outdoor and indoor units. Provide an Ethernet IP connection for BACnet IP communications with a BMS and to access the VRF Smart Gateway user interface as well as a Wi-Fi access point connection for local use only (no connection to the IP Network.)
- 3. User Interface: The VRF Smart Gateway shall be a combination Wi-Fi access point (hot spot) and web server to provide HTML5 browser communications between mobile devices and the VRF Smart Gateway user interface to view a Device List Page and to configure communications settings only. Access to the same user interface pages can be through the Ethernet IP connection as well.
  - a. Device List Page: The VRF Smart Gateway user interface shall include a Device List Page that will allow the user to scroll through all of the VRF indoor and outdoor units organized by refrigerant systems. By connecting the H-LINK communications network and power, the VRF Smart Gateway automatically discover the VRF units over H-LINK. Viewing the Device List Page allows the user determine the online or offline status of every VRF unit on the H-LINK network. The Device List Page also allows the user to change the VRF unit names and descriptions to room or space names to provide clear identity of the VRF units at the time of integration with the BMS.
  - b. Configuration Pages: The VRF Smart Gateway user interface shall include easyto-navigate pages for configuring the Ethernet and BACnet communications settings required by the user's network.
  - c. Backup/Restore: The VRF Smart Gateway user interface shall include the ability to back up the communications settings and Device List Page settings and restore them on the same or different VRF Smart Gateway.
  - d. Firmware Update: The VRF Smart Gateway user interface shall include the ability to update firmware when new versions become available.
- 4. Provide Johnson Controls Model CBN02.

### PART 3 - PERFORMANCE/EXECUTION

3.1 BMS SPECIFIC REQUIREMENTS



- A. Graphic Displays
  - 1. Provide a color graphic system flow diagram display for each system with all points as indicated on the point list. All terminal unit graphic displays shall be from a standard design library.
  - 2. User shall access the various system schematics via a graphical penetration scheme and/or menu selection.
- B. Custom Reports:
  - 1. Provide custom reports as required for this project.
- C. Actuation / Control Type
  - 1. Primary Equipment
    - a. Controls shall be provided by equipment manufacturer as specified herein.
    - b. All damper actuation shall be electric.
  - 2. Air Handling Equipment
    - a. All air handlers shall be controlled with a HVAC-DDC Controller.
    - b. All damper actuation shall be electric.
  - 3. Terminal Equipment:
    - a. Terminal Units (VAV, UV, etc.) shall have electric damper actuation.
    - b. All Terminal Units shall be controlled with HVAC-DDC Controller.

### 3.2 INSTALLATION PRACTICES

- A. BMS Wiring
  - 1. All conduit, wiring, accessories and wiring connections required for the installation of the BMS, as herein specified, shall be provided by the BMS Contractor unless specifically shown on the Electrical Drawings under Division 26 Electrical. All wiring shall comply with the requirements of applicable portions of Division 26 and all local and national electric codes, unless specified otherwise in this section.
  - 2. All BMS wiring materials and installation methods shall comply with BMS manufacturer recommendations.
  - 3. The sizing, type and provision of cable, conduit, cable trays, and raceways shall be the design responsibility of the BMS Contractor. If complications arise, however, due to the incorrect selection of cable, cable trays, raceways and/or conduit by the BMS Contractor, the Contractor shall be responsible for all costs incurred in replacing the selected components.
  - 4. Class 2 Wiring
    - a. All Class 2 (24 VAC or less) wiring shall be installed in conduit unless otherwise specified.
    - b. Conduit is not required for Class 2 wiring in concealed accessible locations. Class 2 wiring not installed in conduit shall be supported every 5' from the building structure utilizing metal hangers designed for this application. Wiring shall be installed parallel to the building structural lines. All wiring shall be installed in accordance with local code requirements.



- 5. Class 2 signal wiring and 24 VAC power can be run in the same conduit. Power wiring 120VAC and greater cannot share the same conduit with Class 2 signal wiring.
- 6. Provide for complete grounding of all applicable signal and communications cables, panels and equipment so as to ensure system integrity of operation. Ground cabling and conduit at the panel terminations. Avoid grounding loops.
- B. BMS Line Voltage Power Source
  - 1. 120-volt AC circuits used for the BMS shall be taken from panel boards and circuit breakers provided by Division 26.
  - 2. Circuits used for the BMS shall be dedicated to the BMS and shall not be used for any other purposes.
  - 3. DDC terminal unit controllers may use AC power from motor power circuits.

### C. BMS Raceway

- 1. All wiring shall be installed in conduit or raceway except as noted elsewhere in this specification. Minimum control wiring conduit size 1/2".
- 2. Where it is not possible to conceal raceways in finished locations, surface raceway (Wiremold) may be used as approved by the Architect.
- 3. All conduits and raceways shall be installed level, plumb, at right angles to the building lines and shall follow the contours of the surface to which they are attached.
- 4. Flexible Metal Conduit shall be used for vibration isolation and shall be limited to 3 feet in length when terminating to vibrating equipment. Flexible Metal Conduit may be used within partition walls. Flexible Metal Conduit shall be UL listed.

### D. Penetrations

- 1. Provide fire stopping for all penetrations used by dedicated BMS conduits and raceways.
- 2. All openings in fire proofed or fire stopped components shall be closed by using approved fire resistive sealant.
- 3. All wiring passing through penetrations, including walls shall be in conduit or enclosed raceway.
- 4. Penetrations of floor slabs shall be by core drilling. All penetrations shall be plumb, true, and square.
- E. BMS Identification Standards
  - 1. Node Identification. All nodes shall be identified by a permanent label fastened to the enclosure. Labels shall be suitable for the node location.
  - 2. Cable types specified in Item A shall be color coded for easy identification and troubleshooting.
- F. BMS Panel Installation
  - 1. The BMS panels and cabinets shall be located as indicated at an elevation of not less than 2 feet from the bottom edge of the panel to the finished floor. Each cabinet shall be anchored per the manufacturer's recommendations.
  - 2. The BMS contractor shall be responsible for coordinating panel locations with other trades and electrical and mechanical contractors.
- G. Input Devices
  - 1. All Input devices shall be installed per the manufacturer recommendation.
  - 2. Locate components of the BMS in accessible local control panels wherever possible.



- H. HVAC Input Devices General
  - 1. All Input devices shall be installed per the manufacturer recommendation.
  - 2. Locate components of the BMS in accessible local control panels wherever possible.
  - 3. The mechanical contractor shall install all in-line devices such as temperature wells, pressure taps, airflow stations, etc.
  - 4. Input Flow Measuring Devices shall be installed in strict compliance with ASME guidelines affecting non-standard approach conditions.
  - 5. Outside Air Sensors
    - a. Sensors shall be mounted on the North wall to minimize solar radiant heat impact or located in a continuous intake flow adequate to monitor outdoor air conditions accurately.
    - b. Sensors shall be installed with a rain proof, perforated cover.
  - 6. Building Differential Air Pressure Applications (-1" to +1" WC)
    - a. Transmitters exterior sensing tip shall be installed with a shielded static air probe to reduce pressure fluctuations caused by wind.
    - b. The interior tip shall be inconspicuous and located as shown on the drawings.
  - 7. Air Flow Measuring Stations
    - a. Where the stations are installed in insulated ducts, the airflow passage of the station shall be the same size as the inside airflow dimension of the duct.
    - b. Station flanges shall be two inch to three inch to facilitate matching connecting ductwork.
  - 8. Duct Temperature Sensors
    - a. Duct mount sensors shall mount in an electrical box through a hole in the duct and be positioned so as to be easily accessible for repair or replacement.
    - b. The sensors shall be insertion type and constructed as a complete assembly including lock nut and mounting plate.
    - c. For ductwork greater in any dimension than 48 inches or where air temperature stratification exists such as a mixed air plenum, utilize an averaging sensor.
    - d. The sensor shall be mounted to suitable supports using factory approved element holders.
  - 9. Space Sensors
    - a. Shall be mounted per ADA requirements.
    - b. Provide lockable tamper-proof covers in public areas and/or where indicated on the plans.
  - 10. Low Temperature Limit Switches
    - a. Install on the discharge side of the first DX coil in the air stream.
    - b. Mount element horizontally across duct in a serpentine pattern insuring each square foot of coil is protected by 1 foot of sensor.
    - c. For large duct areas where the sensing element does not provide full coverage of the air stream, provide additional switches as required to provide full protection of the air stream.
  - 11. Air Differential Pressure Status Switches

- a. Install with static pressure tips, tubing, fittings, and air filter.
- 12. HVAC Output Devices
  - a. All output devices shall be installed per the manufacturers' recommendation. The mechanical contractor shall install all in-line devices such as dampers, airflow stations, pressure wells, etc.
  - b. Actuators: All control actuators shall be sized capable of closing against the maximum system shut-off pressure. The actuator shall modulate in a smooth fashion through the entire stroke.
  - c. Control Dampers: Shall be opposed blade for modulating control of airflow. Parallel blade dampers shall be installed for two position applications.
  - d. Electronic Signal Isolation Transducers: Whenever an analog output signal from the BMS is to be connected to an external control system as an input, or is to receive as an input a signal from a remote system, provide a signal isolation transducer. Signal isolation transducer shall provide ground plane isolation between systems. Signals shall provide optical isolation between systems.

### 3.3 TRAINING

- A. The BMS contractor shall provide the following training services:
  - 1. One day of on-site orientation by a system technician who is fully knowledgeable of the specific installation details of the project. This orientation shall, at a minimum, consist of a review of the project as-built drawings, the BMS software layout and naming conventions, and a walk through of the facility to identify panel and device locations.
- 3.4 COMMISSIONING REQUIREMENTS
  - A. Fully commission all aspects of the BMS work.
  - B. Acceptance Check Sheet
    - 1. Prepare a check sheet that includes all points for all functions of the BMS as indicated on the point list included in this specification.
    - 2. Submit the check sheet to the Engineer for approval.
    - 3. The Engineer will use the check sheet as the basis for acceptance with the BMS Contractor.
  - C. VAV box performance verification and documentation:
    - 1. The BMS Contractor shall test each VAV box for operation and correct flow. At each step, after a settling time, box air flows and damper positions will be sampled. Following the tests, a pass/fail report indicating results shall be produced. Possible results are Pass, No change in flow between full open and full close, Reverse operation or Maximum flow not achieved. The report shall be submitted as documentation of the installation.
    - 2. The BMS Contractor shall issue a report based on a sampling of the VAV calculated loop performance metrics. The report shall indicate performance criteria, include the count of conforming and non-conforming boxes, list the non-conforming boxes along with their performance data, and shall also include graphical representations of performance.
    - 3. Promptly rectify all listed deficiencies and submit a document summarizing completion to the Engineer.

### 3.5 PERFORMANCE VERIFICATION



- A. The installing contractor shall perform a complete Performance Validation (PV) of the Building management system three times throughout the project:
  - 1. At project turnover to customer.
  - 2. At six (6) months of project operation.
  - 3. At twelve (12) months of project operation or end of warranty.
- B. Performance Verification shall include a complete and current Building Automation System site inventory including the following information at a minimum: a listing of all field and supervisory controllers with the following key attribute data; corresponding model numbers, firmware versions, available security updates, CPU and memory performance data, battery conditions, integrations, controlled equipment, and device and point counts.
- C. Performance Verification shall include a complete written evaluation of system configuration and performance in the following categories:
  - 1. Security The Security evaluation shall include information about controllers that require security updates and conformance of user accounts to latest security rules and best practices.
  - Energy Performance The Energy Performance and Savings evaluation shall identify opportunities through schedule and nightly setbacks, economizers, eliminating simultaneous heating and cooling and adding VSD to equipment.
  - 3. Comfort and Health The Comfort and Health evaluation shall identify temperature, pressure, and carbon dioxide values that deviate from desired set points that could lead to occupant discomfort.
  - 4. Reliability The Reliability evaluation shall identify overridden control points, control points creating excessive alarms, and opportunities to adding control points and trends to further enable system functionality.
  - 5. Standards The Standards evaluation shall identify conformance to published standards for point count, network performance and protocol standards.
- D. Provide all reports as specified on a new, USB compatible flash drive.

### END OF SECTION 230900



### SECTION 265668 - EXTERIOR ATHLETIC LIGHTING

### Section Record:

Issued: Addendum 02 – December 12, 2019

Issued: 100% Construction Documents - November 15th, 2019.

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section includes lighting for the following outdoor sports venues:
  - 1. Baseball fields.
- B. Related Requirements:
  - 1. Section 260923 "Lighting Control Devices" for automatic and remote control of lighting, including time switches, photoelectric relays, and multiple lighting relays and contactors.
  - 2. Section 260926 "Lighting Control Panelboards" for panelboard-based lighting control.
  - 3. Section 265613 "Lighting Poles and Standards" for poles and standards used to support lighting equipment.
  - 4. Section 265619 "LED Exterior Lighting" for exterior LED luminaires and photoelectric relays.

### 1.3 DEFINITIONS

- A. Coefficient of Variation (CV): A statistical measure of the weighted average of all relevant illumination values for the playing area, expressed as the ratio of the standard deviation for all illuminance values to the mean illuminance value.
- B. Fixture: See "Luminaire."
- C. Illuminance: The metric most commonly used to evaluate lighting systems. It is the density of luminous flux, or flow of light, reaching a surface divided by the area of that surface.
  - 1. Horizontal Illuminance: Measurement in foot-candles (lux), on a horizontal surface 36 inches (914 mm) above ground unless otherwise indicated.
  - 2. Target Illuminance: Average maintained illuminance level, calculated by multiplying initial illuminance by LLF.
  - 3. Vertical Illuminance: Measurement in foot-candles (lux), in two directions on a vertical surface, at an elevation coinciding with plane height of horizontal measurements.



- D. LC: Lighting Certified.
- E. Light-Loss Factor (LLF): A factor used in calculating the level of illumination after a given period of time and under given conditions. It takes into account temperature, dirt accumulation on the luminaire, lamp depreciation, maintenance procedures, and atmospheric conditions. An LLF includes a recoverable light-loss factor.
- F. Luminaire: A complete lighting unit, internally lighted exit sign, or emergency lighting unit. Luminaires include lamps and the parts required to distribute light, position and protect lamps, and connect lamps to power supply. Note that "fixture" and "luminaire" may be used interchangeably and the "IES Lighting Handbook" uses "luminaire" over "fixture."
- G. Pole: Luminaire support structure, including tower used for large area illumination.
- H. Uniformity Gradient (UG): The rate of change of illuminance on the playing field, expressed as a ratio between the illuminances of adjacent measuring points on a uniform grid.

### 1.4 INFORMATIONAL SUBMITTALS

- A. <u>Coordination Drawings: Plans drawn to scale, on which the following items are shown</u> and coordinated with each other, using input from installers of the items involved:
  - 1. <u>Luminaires.</u>
  - 2. <u>Luminaire support structures.</u>
  - 3. Limits of athletic fields.
  - 4. Proposed underground utilities and structures.
  - 5. Existing underground utilities and structures.
  - 6. <u>Athletic field support structures.</u>
- B. Qualification Data: For gualified Installer and professional engineer.
- C. <u>Welding certificates.</u>
- D. <u>Product Certificates:</u>
  - 1. For each type of ballast for bi-level and dimmer-controlled luminaire, from manufacturer.
  - 2. <u>For support structures, including brackets, arms, appurtenances, bases,</u> <u>anchorages, and foundations, from manufacturer.</u>
- E. Field quality-control reports.
- F. <u>Sample warranty.</u>
- 1.5 ACTION SUBMITTALS
  - A. Product Data: For each type of lighting product.
    - 1. Arrange in order of luminaire designation.
    - 2. Include data on features, accessories, and finishes.
    - 3. Include physical description and dimensions of the luminaires.



- 4. Ballast, including BF, UL listing and recognition, ANSI certification, and Energy Independence and Security Act of 2007 compliance.
- 5. Lamps, including life, output (lumens, CCT, and CRI), and energy-efficiency data.
- 6. Photometric data and adjustment factors based on laboratory tests, complying with IES "Lighting Measurements Testing and Calculation Guides," of each lighting luminaire type. The adjustment factors shall be for lamps, ballasts, and accessories identical to those indicated for the luminaire as applied in this Project.
  - a. Testing Agency Certified Data: For indicated luminaires, photometric data certified by a qualified independent testing agency. Photometric data for remaining luminaires shall be certified by manufacturer.
  - b. Manufacturer Certified Data: Photometric data certified by manufacturer's laboratory with a current accreditation under the NVLAP for Energy Efficient Lighting Products.
- 7. Photoelectric relays.
- 8. Means of attaching luminaires to supports and indication that attachment is suitable for components involved.
- B. Shop Drawings: For nonstandard or custom luminaires.
  - 1. Include plans, elevations, sections, and mounting and attachment details.
  - 2. Include details of luminaire assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
  - 3. Include diagrams for power, signal, and control wiring.
- C. Product Schedule: For luminaires and lamps. Use same designations indicated on Drawings.
- D. Delegated-Design Submittal: For exterior athletic lighting indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
  - 1. Drawings and specifications for construction of lighting system.
  - 2. Manufacturer's determination of LLF used in design calculations.
  - 3. Lighting system design calculations for the following:
    - a. Target illuminance.
    - b. Point calculations of horizontal and vertical illuminance, CV, and UG at minimum grid size and area.
    - c. Point calculations of horizontal and vertical illuminance in indicated areas of concern for spill light.
    - d. Calculations of source intensity of luminaires observed at eye level from indicated properties near the playing fields.
  - 4. Electrical system design calculations for the following:
    - a. Short-circuit current calculations for rating of panelboards.
    - b. Total connected and estimated peak-demand electrical load, in kilowatts, of lighting system.
    - c. Capacity of feeder required to supply lighting system.
  - 5. Wiring requirements, including required conductors, cables, and wiring methods.
  - 6. Structural analysis data and calculations used for pole selection.



a. Manufacturer Wind-Load Strength Certification: Submit certification that selected total support system, including poles, complies with AASHTO LTS-6-M for location of Project.

### 1.6 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Plans drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
  - 1. Luminaires.
  - 2. Luminaire support structures.
  - 3. Limits of athletic fields.
  - 4. Proposed underground utilities and structures.
  - 5. Existing underground utilities and structures.
  - 6. Athletic field support structures.
- B. Qualification Data: For qualified Installer, manufacturer, and field testing agency.
- C. Field quality-control reports.
- D. Sample warranty.

### 1.7 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For luminaires to include in operation and maintenance manuals.
  - 1. Provide a list of all lamp types used on Project. Use ANSI and manufacturers' codes.

### 1.8 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Lamps: Ten for every 100 of each type and rating installed. Furnish at least one of each type.
  - 2. Glass, Acrylic, and Plastic Lenses, Covers, and Other Optical Parts: One for every 100 of each type and rating installed. Furnish at least one of each type.
  - 3. Ballasts: One for every 100 of each type and rating installed. Furnish at least one of each type.
  - 4. Fuses: Ten for every 100 of each type and rating installed. Furnish at least one of each type.

### 1.9 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Manufacturer Qualifications: Manufacturer's responsibilities include fabricating sports lighting and providing professional engineering services needed to assume engineering responsibility.



## 1. Engineering Responsibility: Preparation of delegated-design submittals and comprehensive engineering design and analysis by a qualified professional engineer for the pole structures and foundations.

C. Luminaire Photometric Data Testing Laboratory Qualifications: Luminaire manufacturers' laboratory accredited under the NVLAP for Energy Efficient Lighting Products.

### 1.10 DELIVERY, STORAGE, AND HANDLING

A. Protect finishes of exposed surfaces by applying a strippable, temporary protective covering before shipping.

### 1.11 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of luminaires, lamps, and luminaire alignment products and to correct misalignment that occurs subsequent to successful acceptance tests. Manufacturer may exclude lightning damage, hail damage, vandalism, abuse, and unauthorized repairs and alterations from special warranty coverage.
  - 1. Luminaire Warranty: Luminaire and luminaire assembly (excluding fuses and lamps) shall be free from defects in materials and workmanship for a period of 10 years from date of Substantial Completion.
  - 2. Lamp Warranty:
    - a. Replace lamps and fuses that fail within 24 months from date of Substantial Completion.
  - 3. Alignment Warranty: Accuracy of alignment of luminaires shall remain within specified illuminance uniformity ratios for a period of five years from date of successful completion of acceptance tests.
    - a. Realign luminaires that become misaligned during the warranty period.
    - b. Replace alignment products that fail within the warranty period.
    - c. Verify successful realignment of luminaires by retesting as specified in "Field Quality Control" Article.

### PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Available manufacturers: Subject to compliance, metal conduit manufacturers include, and are limited to:
  - 1. Musco
  - 2. Eaton Corp.
  - 3. Carolina High Mast



### 2.2 ALLIED PERFORMANCE REQUIREMENTS

- A. Facility Type: College.
- B. Illumination Criteria:
  - 1. Minimum average target illuminance level for each lighted area for each sports venue and for the indicated class of play according to IES RP-6.
  - 2. CV and maximum-to-minimum uniformity ratios for each lighted area equal to or less than those listed in IES RP-6 for the indicated class of play.
  - 3. UG levels within each lighted area equal to or less than those listed in IES RP-6 for the indicated speed of sport.
- C. Illumination Criteria including lighting levels (horizontal/vertical footcandles), uniformity, etc. shall meet NCAA criteria for Regional television broadcasts. At a minimum, the criteria below shall be met
  - 1. Minimum Average Target Illumination: 100 footcandles infield / 70 footcandles outfield
  - 2. Horizontal Uniformity: 1.5:1 infield, 2.0:1 outfield
  - 3. Vertical Average Target Illumination: 70/40 footcandles to high home plate camera, 70/40 footcandles to 1<sup>st</sup> baseline camera, 70/40 footcandles to 3<sup>rd</sup> baseline camera
  - 4. CV: 0.13 or less
  - 5. Maximum-to-Minimum Uniformity Ratio:
  - 6. UG Level:
- D. Illumination Calculations: Computer-analyzed point method complying with IES RP-6 to optimize selection, location, and aiming of luminaires.
  - 1. Grid Pattern Dimensions: For playing areas of each sport and areas of concern for spilllight control, correlate and reference calculated parameters to the grid areas. Each grid point represents the center of the grid area defined by the length and width of the grid spacing.
  - 2. Spill-Light Control: Minimize spill light for each playing area on adjacent and nearby areas.
    - a. Prevent light trespass on properties near Project as defined by Marshall University.
    - b. For areas indicated on Drawings as "spill-light critical," limit the level of illuminance directed into the area from any luminaire or group of luminaires, and measured 36 inches (914 mm) above grade to the following:
  - 3. Glare Control: Design illumination for each playing area to minimize direct glare in adjacent and nearby areas.
  - 4. Determine LLF according to IES RP-6 and manufacturer's test data.
    - a. Use LLD at 100 percent of rated lamp life. LLF shall be applied to initial illumination to ensure that target illumination is achieved at 100 percent of lamp life and shall include consideration of field factor.
    - b. LLF shall not be higher than 70 percent and may be lower when determined by manufacturer after application of the ballast output and optical system output according to IES RP-6.
  - 5. Luminaire-Mounting Height: Comply with IES RP-6, with consideration for requirements to minimize spill light and glare.



- 6. Luminaire Placement: Luminaire clusters shall be outside the glare zones defined by IES RP-6.
- E. Baseball Fields:
  - 1. IES RP-6: Class of Play II.
  - 2. Speed of Sport: Fast.
  - 3. Grid Pattern Dimensions: 30 by 30 feet (9 by 9 m).
- F. Egress Lighting: In case of power failure, provide a minimum of 1.0-fc (10.8-lux) illumination, within 30 seconds, measured at grade in spectator and spectator egress areas.
  - 1. Duration of emergency illumination shall be not less than 15 minutes.
  - 2. Momentary Power Interruptions: Provide emergency illumination immediately following restoration of power to the lighting circuits. Emergency illumination shall automatically extinguish after 15 minutes.
- G. Lighting Control: Manual, low voltage, or digital; providing the following functions, integrated into a single control station, with multiple subcontrol stations as indicated:
  - 1. Control Station: Key-operated master switch, manual push-button controls, and system status indicator lights.
  - 2. Light Levels: Two levels of control **100/50** percent of minimum target illumination.
- H. Electric Power Distribution Requirements:
  - 1. Electric Power: 480 V; single phase.
    - a. Include roughing-in of service indicated for nonsports improvements on Project site.
    - b. Balance load between phases. Install wiring to balance three phases at each support structure.
    - c. Include required overcurrent protective devices and individual lighting control for each sports field or venue.
    - d. Include indicated feeder capacity and panelboard provisions for future lighted sports field construction.
  - 2. Maximum Total Voltage Drop from Source to Load: 5 percent, including voltage drops in branch circuit, subfeeder, and feeder.

### 2.3 LUMINAIRES, LAMPS, AND BALLASTS

- A. Luminaires: Complying with requirements described in Section 265619 "LED Exterior Lighting."
  - 1. Listed and labeled, by an NRTL acceptable to authorities having jurisdiction, for compliance with UL 1598 for installation in wet locations.
  - 2. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit relamping without using tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent their accidental falling during relamping and when secured in operating position. Doors shall be removable for cleaning or replacing lens. Designed to disconnect ballast when door opens.
  - 3. Exposed Hardware: Stainless-steel latches, fasteners, and hinges.



- 4. Spill-Light Control Devices: Internal louvers and external baffles furnished by manufacturer and designed for secure attachment to specific luminaire.
- B. Ballast (Driver) Mounting: Grouped in cabinets, remote from location of associated luminaires unless otherwise indicated.
- 2.4 SUPPORT STRUCTURES

### 2.5 STEEL POLES (Athletic Lighting)

- A. <u>Available manufacturers: Subject to compliance, metal conduit manufacturers include,</u> <u>but are not limited to:</u>
  - 1. <u>American LitePole</u>
  - 2. Cooper Lighting, Eaton
  - 3. EGS / Appleton Electric
  - 4. H.E. Williams
- B. Source Limitations: Obtain poles from single manufacturer or producer.
- A. <u>Engineering Responsibility:</u> Preparation of delegated-design submittals and comprehensive engineering design and analysis by a qualified professional engineer for the pole structures and foundations.
  - 1. <u>Pole Structural Design: The stress analysis and safety factor of the poles shall</u> <u>conform to 2013 AASHTO Standard Specification for Structural Supports for</u> <u>Highway Signs, Luminaires, and Traffic Signals (LTS-6).</u>
  - 2. <u>All luminaires must include the following as a standard product; external visors,</u> and cross-arm assemblies shall withstand 150 mph winds, banners (up to 16'x24') and maintain luminaire aiming alignment for 10 years.
  - 3. Coordination and accommodation of other loads such as foul ball netting system.
  - 4. Refer to Design Drawings for pole shapes and elevations, banner locations, etc.
- B. Manufacturer must provide a complete new cross-arm assembly with no external wiring. All wiring to be internal to the cross-arm and pole.
- C. <u>Wire harness complete with an abrasion protection sleeve, strain relief and plug-in</u> <u>connections for fast, trouble-free installation.</u>
- D. <u>Poles: Comply with ASTM A500/A500M, Grade B carbon steel with a minimum yield of 46,000 psig (317 MPa); one-piece construction up to 100 feet in height with access handhole in pole wall pending pole cross section.</u>
  - 1. Shape: Refer to Drawings
  - 2. <u>Mounting Provisions: Butt flange for bolted mounting on foundation or breakaway</u> <u>support.</u>
- E. <u>Steel Mast Arms: Single-arm Truss Davit type, continuously welded to pole attachment</u> plate. Material and finish same as plate.
- F. Brackets for Luminaires: Detachable, cantilever, without underbrace.
  - 1. <u>Adaptor fitting welded to pole, allowing the bracket to be bolted to the pole-</u> mounted adapter, then bolted together with stainless galvanized-steel bolts.



- 2. <u>Cross Section: Refer to Drawings.</u>
- G. <u>Pole-Top Tenons: Fabricated to support luminaire or luminaires and brackets indicated,</u> <u>and securely fastened to pole top.</u>
- H. <u>Fasteners: Stainless steel Galvanized steel, size and type as determined by</u> <u>manufacturer. Corrosion-resistant items compatible with support components.</u>
  - 1. <u>Materials: Compatible with poles and standards as well as the substrates to which poles and standards are fastened and shall not cause galvanic action at contact points.</u>
  - 2. <u>Anchor Bolts, Leveling Nuts, Bolt Caps, and Washers: Hot-dip galvanized after</u> <u>fabrication unless otherwise indicated.</u>
- I. <u>Grounding and Bonding Lugs: Welded 1/2-inch (13-mm) threaded lug, complying with</u> requirements in Section 260526 "Grounding and Bonding for Electrical Systems," listed for attaching grounding and bonding conductors of type and size indicated, and accessible through handhole.
- J. <u>Handhole if required: Oval shaped, with minimum clear opening of 2-1/2 by 5 inches (65 by 130 mm), with cover secured by stainless-steel captive screws.</u>
- K. <u>Cable Support Grip: Wire-mesh type with rotating attachment eye, sized for diameter of cable and rated for a minimum load equal to weight of supported load multiplied by a 5.0 safety factor.</u>
- L. <u>Platform for Lamp and Ballast Servicing: Pending height of ballast, factory fabricated of steel, with finish matching that of pole. Final approval by Architect</u>
- M. <u>Factory-Painted Finish: Comply with NAAMM's "Metal Finishes Manual for Architectural</u> and Metal Products" recommendations for applying and designating finishes.
  - 1. <u>Surface Preparation: Clean surfaces according to SSPC-SP1 to remove dirt, oil, grease, and other contaminants that could impair paint bond. Grind welds and polish surfaces to a smooth, even finish. Remove mill scale and rust, if present, from uncoated steel, according to SSPC-SP 5/NACE No. 1 or SSPC-SP 8.</u>
  - 2. <u>Interior Surfaces of Pole: One coat of bituminous paint, or otherwise treat for equal</u> corrosion protection.
  - 3. Exterior Surfaces: Manufacturer's standard finish consisting of one or more coats of primer and two finish coats of high gloss, high-build polyurethane enamel.
    - a. <u>Color: As selected by Architect from manufacturer's full range of options.</u>

### 2.6 POWER DISTRIBUTION AND CONTROL

- A. Wiring Method for Feeders, Subfeeders, Branch Circuits, and Control Wiring: Underground nonmetallic raceway; No. 10 AWG minimum conductor size for power wiring.
- B. Overhead-, pole-, or structure-supported wiring and transformers are not permitted.
- C. Electrical Enclosures Exposed to Weather: NEMA 250, Type 3R enclosure constructed from stainless steel, with hinged doors fitted with padlock hasps or lockable latches.



### 2.7 SURGE PROTECTION

- A. Surge Protection: Comply with requirements in Section 264313 "Surge Protection for Low-Voltage Electrical Power Circuits" and include surge suppressors with the following requirements:
  - 1. Panelboard type.
  - 2. Nonmodular, with digital indicator lights and one set of dry contacts.
  - 3. Peak Single-Impulse Surge Current Rating: 50 kA per phase.

### 2.8 POLE AND BASE PROTECTION

A. Pole Pads: Wraparound pad, with 4 inches (100 mm) of extra-firm polyfoam, 360-degree coverage of ground-mounted poles and supports, continuous hook-and-loop fastening; and not less than 72 inches (1820 mm) high.

### 2.9 GENERAL FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Variations in finishes are unacceptable in the same piece. Variations in finishes of adjoining components are acceptable if they are within the range of approved Samples and if they can be and are assembled or installed to minimize contrast.

### PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine roughing-in for luminaire electrical and communications conduit to verify actual locations of connections before pole or luminaire installation.
- C. Examine foundations for suitable conditions where luminaires will be installed.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Comply with NECA 1.
- B. Wiring Method: Install cables in raceways, except when cables are installed within boxes and poles. Conceal raceways and cables.
  - 1. Comply with requirements in Section 260519 "Low-Voltage Electrical Power Conductors and Cables" and Section 260533 "Raceways and Boxes for Electrical Systems" for wiring connections and wiring methods.



- C. Coordination layout and installation of luminaires with other construction.
- D. Use web fabric slings (not chain or cable) to raise and set structural members. Protect equipment during installation to prevent corrosion.
- E. Install poles and other structural units level, plumb, and square.
- F. Install luminaires at height and aiming angle as indicated on Drawings.
- G. Except for embedded structural members, grout void between pole base and foundation. Use nonshrinking or expanding concrete grout firmly packed in entire void space. Use a short piece of 1/2-inch- (13-mm-) diameter pipe to make a drain hole through grout. Arrange to drain condensation from interior of pole. Nonshrink grout is specified in Section 055000 "Metal Fabrications."
- H. Extend cast-in-place bolted base foundations 36 inches (914 mm) above grade <u>at A, C, and D</u> <u>poles</u>, minimum.
- I. Install controls and ballast housings in cabinets mounted on support structure at least 10 feet (3 m) above finished grade.

### 3.3 IDENTIFICATION

A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

### 3.4 FIELD QUALITY CONTROL

- A. Testing Agency: **Engage** a qualified testing agency to perform tests and inspections.
- B. Perform the following tests and inspections:
  - 1. After installing sports lighting system and after electrical circuits have been energized, perform proof-of-performance field measurements and analysis for compliance with requirements.
  - 2. Playing and Other Designated Areas: Make field measurements at intersections of grids, dimensioned and located as specified in "Performance Requirements" Article and as described below:
    - a. Baseball Fields: Measure at least 25 points of the infield and <u>120 points</u> of the outfield. Extend the grid 15 feet (5 m) outside the foul lines, extending to outfield boundary or fence.
  - 3. Make field measurements at established test points in areas of concern for spill light and glare.
  - 4. Perform analysis to demonstrate correlation of field measurements with specified illumination quality and quantity values and corresponding computer-generated values that were submitted with engineered design documents. Submit a report of the analysis. For computer-generated values, use manufacturer's lamp lumens that are adjusted to lamp age at time of field testing.



- C. Correction of Illumination Deficiencies for Playing Areas: Make corrections to illumination quality or quantity, measured in field quality-control tests, that varies from specified illumination criteria by plus or minus 10 percent.
  - 1. Add or replace luminaires; change mounting height and aiming; or install louvers, shields, or baffles.
  - 2. If luminaires are added or mounting height is changed, revise aiming and recalculate and modify or replace support structures if indicated.
  - 3. Do not replace luminaires with units of higher or lower wattage without Architect's approval.
  - 4. Retest as specified above after repairs, adjustments, or replacements are made.
  - 5. Report results in writing.
- D. Correction of Excessive Illumination in Spill-Light-Critical Areas: If measurements indicate that specified limits for spill light are exceeded, make corrections to illumination quantity, measured in field quality-control tests, that reduce levels to within specified maximum values.
  - 1. Replace luminaires; change mounting heights and revise aiming; or install louvers, shields, or baffles.
  - 2. Obtain Architect's approval to replace luminaires with units of higher or lower wattage.
  - 3. If mounting height is changed, revise aiming and recalculate and modify or replace support structures if indicated.
  - 4. Retest as specified above after repairs, adjustments, or replacements are made.
  - 5. Report results in writing.
- E. Sports lighting will be considered defective if it does not pass tests and inspections.
- F. Prepare test and inspection reports.

### 3.5 ADJUSTING

A. Adjust luminaires and supports to maintain orientation and aiming as recommended by manufacturer.

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P001	GENERAL INFO - PLUMBING		FP001	FIRE PROTECTION LEGEND	1	TN701	TECHNOLOGY RISER DIAGRAMS	
P101	UNDERGROUND PLUMBING PLAN - OVERALL		FP101A	DUGOUT LEVEL FIRE PROTECTION PLAN - AREA A	1			
P101A	UNDERGROUND PLUMBING PLAN - AREA A	1	FP101B	DUGOUT LEVEL FIRE PROTECTION PLAN - AREA B		10-FOOD S	ERVICE	
P101C	UNDERGROUND PLUMBING PLAN - AREA C	1	FP104A	CONCOURSE LEVEL FIRE PROTECTION PLAN - AREA A		FS1.01U	FOODSERVICE EQUIPMENT UTILITY PLAN - PLAYER LOUNGE 1.L5.02 & TRAINING ROOM 1.L8.02	
P102	DUGOUT LEVEL PLUMBING PLAN - OVERALL		FP104B	CONCOURSE LEVEL FIRE PROTECTION PLAN - AREA B	1	FS2	FOODSERVICE OVERALL REFERENCE PLAN - FIELD LEVEL	
P102A	DUGOUT LEVEL PLUMBING PLAN - AREA A	1	FP104C	CONCOURSE LEVEL FIRE PROTECTION PLAN - AREA C		FS2.01	FOODSERVICE EQUIPMENT LAYOUT & SCHEDULE - FIELD STORAGE 1.L11.03	
P102B	DUGOUT LEVEL PLUMBING PLAN - AREA B	1	FP104D	CONCOURSE LEVEL FIRE PROTECTION PLAN - AREA D		FS2.01E	FOODSERVICE ELECTRICAL SPOT PLAN & LOAD SCHEDULE - FIELD STORAGE 1.L11.03	
P102C	DUGOUT LEVEL PLUMBING PLAN - AREA C	1	FP105A FP105B	PRESS LEVEL FIRE PROTECTION PLAN - AREA A	1	FS2.01M	FOODSERVICE MECHANICAL SPOT PLAN & LOAD SCHEDULE - FIELD STORAGE 1.L11.03	
P104	CONCOURSE LEVEL PLUMBING PLAN - OVERALL		FP501	FIRE PROTECTION DETAILS	1	FS3	FOODSERVICE OVERALL REFERENCE PLAN - CONCOURSE LEVEL	
P104A	CONCOURSE LEVEL PLUMBING PLAN - A	1				FS3.01	FOODSERVICE EQUIPMENT LAYOUT & SCHEDULE - CONCESSION 2.R1.02	
P104B	CONCOURSE LEVEL PLUMBING PLAN - B	1	09 - TECH A	ND AV		FS3.01E	FOODSERVICE ELECTRICAL SPOT PLAN & LOAD SCHEDULE - CONCESSION 2.R1.02	
P104C	CONCOURSE LEVEL PLUMBING PLAN - C	1	TA000			FS3.01M	FOODSERVICE MECHANICAL SPOT PLAN & LOAD SCHEDULE - CONCESSION 2.R1.02	
P104D P105	PRESS LEVEL PLUMBING PLAN - D		TA001 TA002	BROADCAST PREWIRE REQUIREMENTS		FS3.015C	FOODSERVICE SPECIAL CONDITIONS PLAN - CONCESSION 2.R1.02	
P105A	PRESS LEVEL PLUMBING PLAN - A	1	TA003	BROADCAST PANEL REQUIREMENTS		FS3.02E	FOODSERVICE ELECTRICAL SPOT PLAN & LOAD SCHEDULE - CONCESSION 2.R8.01	
P105B	PRESS LEVEL PLUMBING PLAN - B	1	TA101	AUDIO-VIDEO DUGOUT&FIELD LEVEL 1 PLAN - OVERALL REFERENCE PLAN		FS3.02M	FOODSERVICE MECHANICAL SPOT PLAN & LOAD SCHEDULE - CONCESSION 2.R8.01	
P106	ROOF LEVEL PLUMBING PLAN - OVERALL		TA101A	AUDIO-VIDEO DUGOUT&FIELD LEVEL 1 PLAN - AREA A	1	FS3.02SC	FOODSERVICE SPECIAL CONDITIONS PLAN - CONCESSION 2.R8.01	
P106A	ROOF LEVEL PLUMBING PLAN - A	1	TA101B	AUDIO-VIDEO DUGOUT&FIELD LEVEL 1 PLAN - AREA B	1	FS3.03	FOODSERVICE EQUIPMENT LAYOUT & SCHEDULE - CONCESSION 2.L10.02	
P401	PLUMBING ENLARGED PLANS	1	TA101C	AUDIO-VIDEO DUGOUT&FIELD LEVEL 1 PLAN - AREA C	1	FS3.03E	FOODSERVICE MECHANICAL SPOT PLAN & LOAD SCHEDULE - CONCESSION 2.110.02	
P402	PLUMBING ENLARGED PLANS	1	TA101F	AUDIO-VIDEO DUGOUT&FIELD LEVEL 1 PLAN - AREA F		FS3.03SC	FOODSERVICE SPECIAL CONDITIONS PLAN - CONCESSIONS 2.L10.02	
P403	PLUMBING ENLARGED PLANS	1	TA102	AUDIO-VIDEO CONCOURSE LEVEL PLAN - OVERALL REFERENCE PLAN		FS4	FOODSERVICE OVERALL REFERENCE PLAN - PRESS LEVEL	
P404	PLUMBING ENLARGED PLANS	1,2	TA102A	AUDIO-VIDEO CONCOURSE LEVEL PLAN - AREA A		FS4.01	FOODSERVICE EQUIPMENT LAYOUT & SCHEDULE - PANTRY 3.L7.01 & OUTDOOR CLUB 3.L3.01	
P405	PLUMBING ENLARGED PLANS	1	TA102B	AUDIO-VIDEO CONCOURSE LEVEL PLAN - AREA B		FS4.01E	FOODSERVICE ELECTRICAL SPOT PLAN & LOAD SCHEDULE - PANTRY 3.L7.01 & OUTDOOR CLUB 3.L3	3.01
P400	PLUMBING ENLARGED PLANS	1	TA1020	AUDIO-VIDEO PRESS&SUITE LEVEL 3 PLAN - OVFRALL REFERENCE PLAN		FS4.018C	FOODSERVICE SPECIAL CONDITIONS PLAN - PANTRY 3.17.01 & OUTDOOR CLUB 3.13.01	
P408	PLUMBING ENLARGED PLANS	1	TA103A	AUDIO-VIDEO PRESS&SUITE LEVEL 3 PLAN - AREA A		FS5.01	FOODSERVICE GENERAL WALK-IN DETAILS	
P501	PLUMBING DETAILS	2	TA103B	AUDIO-VIDEO PRESS&SUITE LEVEL 3 PLAN - AREA B		FS5.02	FOODSERVICE GENERAL DETAILS	
P502	PLUMBING DETAILS	2	TA103E	AUDIO-VIDEO PRESS&SUITE LEVEL 3 PLAN - AREA E	1	FS5.03	DETAIL SHEET - REFRIGERATION RACK - ITEM #39	
P503	PLUMBING DETAILS PLUMBING SCHEDULES	2	TA201A	AUDIO-VIDEO 01 - DUGOUT&FIELD LEVEL 1 RCP - AREA A		FS5.04	DETAIL SHEET - REFRIGERATION SYSTEM - ITEM #49.2	
P701	PLUMBING STACK DIAGRAMS	Ζ	TA201B	AUDIO-VIDEO CONCOURSE LEVEL RCP - AREA A	1	133.03	FORTABLE BAR DETAIL STILLT - ITEM #136.1	
P702	PLUMBING STACK DIAGRAMS		TA202B	AUDIO-VIDEO CONCOURSE LEVEL RCP - AREA B	1	11-PLAYINO	G FIELD (FOR INFORMATION ONLY)	
						PF001	COVER SHEET (INFORMATION ONLY)	
						PF002	EXISTING UTILITIES AND SUBGRADE PLAN (INFORMATION ONLY)	
						PF101	FIELD LAYOUT PLAN (INFORMATION ONLY)	
						PF102	FIELD GRADING PLAN (INFORMATION ONLY)	
						PF103	FIELD DRAINAGE PLAN (INFORMATION ONLY)	
						PF104	FIELD WASHWATER & COMMBOX PLAN (INFORMATION ONLY)	
						PF201	FIELD SECTIONS & DETAILS (INFORMATION ONLY)	
						PF202	FIELD DETAILS (INFORMATION ONLY)	
						PF204	FIELD DETAILS (INOFRMATION ONLY)	
						PF205	FENCING DETAILS (INFORMATION ONLY)	
						PF301	FIELD SYNTHETIC TURF COMPOSITE PLAN (INFORMATION ONLY)	

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SHEET NUMBER

## SHEET TITLE DRAWING INDEX

## 60590790

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STRUCTURAL

	L13
	1' - 2"
8" CMU - "TYPE B / COLOR 1" FOR ALL EXPOSED SURFACES ABOVE SPLIT SLAB	
SPLIT SLAB WATERPROOFING SYSTEM. RE: WATERPROOFING SHEETS (A820s) FOR SYSTEM CONTENTS	
4" CMU VENEER - "TYPE B / COLOR 1" MASONRY	
1" RIGID INSULATION CONTINUOUS @ WALL CAVITY	
B.O. MTL. DECK	
557' - 6"	
"TYPE A" 8" CMU WITH WEATHER BARRIER - SPEC. 072500 - AND FOAMED-IN-PLACE INSULATION - SPEC. 072119	
STRUCTURAL STL RE: STRUCT	

ALUM. COPING CAP -TREATED WD BLOCKING

T.O. MASONRY <del>•</del> 573' - 8"

CONTINUOUS FLASHING -STL. ANGLE -

SPEC. 064013 -MASONRY AT ALL EXPOSED WALL SURFACES -

CONTINUOUS @ WALL CAVITY -

## PARAPET DETAIL @ D5 NORTHEAST LOBBY 1 1/2" = 1'-0"

### **1" RIGID INSULATION** CONTINUOUS @ WALL CAVITY -

4" CMU VENEER - "TYPE B / COLOR 1" MASONRY -CEDAR CLADDING SYSTEM ·

SPEC. 064013 — WEATHER BARRIER. EXTEND OVER FLASHING. WEEPS -

SHEET METAL FLASHING W/ HEMMED EDGE TO BE FLUSH W/ FACE OF MASONRY AND TO BE CONT. VISIBLE -

STL. ANGLE PAINTED TO MATCH MASONRY -BACKER ROD & SEALANT SHIM AS REQUIRED -BULLET PROOF TICKET WINDOW - SPEC. 085659 -

### HEAD DETAIL @ C5 TICKET WINDOW (3RD BASE SIDE) 1 1/2" = 1'-0" 1 1/2" = 1'-0"

LINE OF CMU VENEER BEYOND BULLET PROOF TICKET WINDOW - SPEC. 085659 -WITH EXCHANGE COUNTER BACKER ROD & SEALANT AND SHIM AS REQUIRED — 2'-10" AFF

' CMU VENEER -TYPE B / COLOR 1" MASONRY RIGID INSULATION CONTINUOUS @ WALL CAVITY -'TYPE A" 8" CMU WITH WEATHER BARRIER - SPEC. 072500 - AND OAMED-IN-PLACE INSULATION -SPEC. 072119 -

SILL DETAIL @ TICKET WINDOW (3RD BASE) 1 1/2" = 1'-0"

ER BARRIER EXTEND LASHING -METAL FLASHING

MED EDGE TO BE W/ FACE OF MASONRY SOLID -VENEER - "TYPE B / COLOR 1"

LAB WATERPROOFING . RE: WATERPROOFING 6 (A820s) FOR SYSTEM JTS — OCK TO ALLOW

ONTINUATION OF WATERPROOFING MEMBRANE

> SLAB EDGE DETAIL @ 5 NORTHEAST TICKETING <sup>1</sup>/2" = 1'-0"

### SLAB EDGE DETAIL @ ABOVE FOOR SERVICE OFFICE 1 1/2" = 1'-0"

	L13 1' - 2" 1' - 2"
"TYPE A" 8" CMU WITH FOAMED-IN-PLACE INSULATION	
WEATHER BARRIER	
1" RIGID INSULATION	
4" CMU VENEER - "TYPE B / COLOR 1" MASONRY AT ALL EXPOSED WALL SURFACES	
WEATHER BARRIER EXTEND OVER FLASHING	
WEEPS	
SHEET METAL FLASHING W/ HEMMED EDGE TO BE FLUSH W/ FACE OF MASONRY	4" CONC. SLAB ON GRADE
RUBBERIZED ASPHALT FLASHING	
GROUT SOLID	
BLOCK LEDGE	
♥ 545' - 4"	
DRAINAGE FILL	
2" RIGID INSULATION	
WATERPROOFING SYSTEM	
C.I.P. CONC. FOUNDATION WALL	
	n i na mananin na

SLAB EDGE DETAIL @ FOOR SERVICE OFFICE FLOOR 1 1/2" = 1' 0"

1 1/2" = 1'-0"

	Ň
	Ъ s
CONC. SLAB ON MTL. DECK	ζ Α
	$\langle \langle \cdot \rangle$
SHEET MTL FLASHING TO ATTACH TO SHEATHING WITH 1" ATTACHMENT	Z
FLANGE @ 16" O.C. MAX LAP RUBBERIZED ASPHALT FLASHING 3" MIN. ABOVE AND BELOW TOP OF FLASHING TERMINATION	
GEOMETRY OF END DAMS SHOWN DASHED -	
INSTALL END DAMS @ EACH FLASHING	) "1
	Υ B F
TO SHEET MTL FLASHING	s s
	$\checkmark$
WEEPS	2
T.O. SHELF ANGLE	, ) s
EDGE TO FLASH W/ FACE OF BLOCK	$\sum_{i=1}^{i}$
	$\langle$
BACKER ROD & SEALANT	Z
SHELF ANGLE - RE: STRUCT.	)
CONTINUOUSLY TAPE WEATHER BARRIER,	→ WEATHE
BUILDING WRAP TO UNDERSIDE OF SHELF ANGLE	OVER FL
STUDS TO TRACK - US STRAPPING	FLUSH W
	GROUT S
	4" CMU V
	MASONF
	SPLIT SL
	SYSTEM SHEETS
	CONTEN
	CUT BLO

DEFLECTION JOINT DETAIL @ A6 SLAB EDGE W/ MASONRY VENEER 3" = 1'-0"

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SHEET TITLE **EXTERIOR DETAILS - SECTIONS** @ CONCOURSE LEVEL

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2	12/12/19	ADDENDUM 02
1	12/02/19	ADDENDUM 01
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SOFFIT CONDITION @ A6 CONCESSIONS 2.L10.02 / 1 1/2" = 1'-0"

SILL DETAIL @ HEAD COACH'S OFFICE 1 1/2" = 1'-0"

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CEILING

5/8" GWB

AS SCHED.

1' - 9 5/8"

### SECTION DETAIL @ C3 ROOFING GRAVEL STOP

1 1/2" = 1'-0"

- LINE OF METAL PANEL BEYOND

ALUM. FRAMED STOREFRONT WITH 9/16" LAMINATED TEMPERED GLASS. ALIGN EXTERIOR FACE OF MULLION WITH EXTERIOR

DECK BEYOND - RAIL TYPE 23 SPLIT SLAB WATERPROOFING SYSTEM. RE: WATERPROOFING

SHEETS (A820s) FOR SYSTEM





	1' - 9 5/8"
NOTE: BOTTOM OF GRAVEL STOP EDGE TO ALIGN WITH BOTTOM OF METAL REVEAL EDGE ALONG NORTH WALL - VIF.	] <del>/ 4 1/2" /</del>
USE 4.5" MULLION TO AVOID COLUMN BEHIND	
LINE OF MTL. PANEL BEYOND	-
ALUM. STOREFRONT GLAZING SYSTEM - ALIGN W/ EXT. FACE OF CEDAR CLADDING ABOVE	
CONCRETE SLAB ON METAL DECK	
BACKER ROD & SEALANT	
ALUM. SILL FLASHING TO MATCH MULLION	
PRESS LEVEL	
1/2" EXT. SHEATING ON 6" COLD FORMED METAL FRAMING - TYP. STAGGER FRAMING TO ALLOW FOR OVERLAP OF FRAMING BEHIND - TYP.	
LINE OF OVERLAPPED STAGGERED FRAMING	F.O. STUD
WEATHER BARRIER - TYP	
PREFIN. FORMED METAL	
STL SUPPORT - TYP	
CONTINUOUS BATT INSUL. AT WALL CAVITY	
METAL TO EXTEND BEHIND WALL PANEL SYSTEM	
SEALANT	
PREFIN. FORMED METAL	6" 1' - 2 5/8"
	- 1/4" SLOPE
CONT. CLEAT	
TREATED WD BLOCKING	

STL ANGLE -

SILL DETAIL @ A3 GLAZING SYSTEM PRESS LEVEL 1 1/2" = 1'-0"



### SECTION DETAIL @ C2 RECESSED CEDAR CLADDING HEAD 1 1/2" = 1'-0"



### SECTION DETAIL @ RECESSED CEDAR CLADDING SILL 1 1/2" = 1'-0"



SLAB EDGE DETAIL @ METAL PANEL PRESS LEVEL 1 1/2" = 1'-0"

# A525

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SHEET NUMBER

## **EXTERIOR DETAILS - SECTIONS** @ PRESS LEVEL

SHEET TITLE

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EE DRAWING S001 AND S002.	7. INDICATES CANTILEVER BEAM MOMENT CONNECTION.
ELEV. SEE FRAMING PLAN. SEE S001 FOR EVATION REFERENCE TABLE. IS TOP OF ROOF DECK ELEVATION.	<ul> <li>8. INDICATES BEAM MOMENT FRAME CONNECTION.</li> <li>SEE DWG. S712 FOR TYP. DETAIL.</li> </ul>
ON IS 3" BELOW THE TOP OF DECK U.O.N.,	SEE S3XX SERIES DWGS. FOR MOM. FRAME ELEVATIONS
,	9. INDICATES LATERAL BRACING OF ST. BM. USING ST. BEAM
S STEEL BEAM.(V)INDICATES BEAM END LOAD N(SERVICE)IN KIPS.	
S W12X26 / W10x12.	10.
S SPAN OF 3", TYPE N 20 GAGE CK.	11. — INDICATES SHEAR PLATE CONNECTION. SEE DWG. S711 FOR TYP. DET.
OF STEEL FILLER BEAMS AT EACH BAY U.O.N.	12. COORDINATE WITH ARCH/MEP DWGS. FOR FLOOR OPENING SIZES AND LOCATIONS. SEE TYP. DETAIL OF SLAB EDGE REINFORCEMENT AT THE OPENINGS.
S STEEL BEAM. (V) INDICATES BEAM END LOAD N ( SERVICE ) IN KIPS. S W12X26 / W10x12. S SPAN OF 3", TYPE N 20 GAGE CK. OF STEEL FILLER BEAMS AT EACH BAY U.O.N.	<ul> <li>SEE TYP. DET. DWG. S711.</li> <li>INDICATES STEEL COLUMN BELOW.</li> <li>INDICATES SHEAR PLATE CONNECTION. SEE DWG. S711 FOR TYP. DET.</li> <li>COORDINATE WITH ARCH/MEP DWGS. FOR FLOOR OPENING SIZES AND LOCATIONS. SEE TYP. DETAIL OF SLAB EDGE REINFORCEMENT AT THE OPENINGS.</li> </ul>



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ROOF(PRESS LEVEL)-FRAMING PLAN

SHEET TITLE





SHEET NUMBER

Project Number SHEET TITLE LLRS MASONRY - SHEARWALLS

**ISSUE/REVISION** 12/10/19 ADDENDUM #2 ADDENDUM # 1 12/02/19 I/R DATE DESCRIPTION



## CONSTRUCTION **DOCUMENTS** -**BID SET** 11/15/19 **KEY PLAN**









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SECTIONS AND DETAILS 2 (

Project Number

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CONCOURSE )

**S501** 

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## S505

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## SECTIONS AND DETAILS 6 ( MISC. FACADE FRMG )

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PRESS LEVEL 32' - 8"

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SHEET TITLE SECTIONS AND DETAILS (MISC. FACADE FRMG)

PROJECT NUMBER Project Number

2	12/10/19	ADDENDUM #2
1	12/02/19	ADDENDUM # 1
I/R	DATE	DESCRIPTION

**ISSUE/REVISION** 



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MAX. WALL	MASORNY WALL THICKNESS						
OPENING	4" WALL	6" WALL	8" WALL	12" WALL			
3'-0"	L3 1/2x3 1/2x1/4	2-⊔L3 1/2x2 1/2x1/4	2-⊔L3 1/2x3 1/2x1/4	3-⊔L3 1/2x3 1/2x1/4			
4'-0"	L4x3 1/2x1/4	2-⊔L3 1/2x2 1/2x1/4	2-⊔L4x3 1/2x1/4	3-⊔L4x3 1/2x1/4			
5'-0"	L4x3 1/2x1/4	2-⊔L3 1/2x2 1/2x1/4	2-⊔L5x3 1/2x1/4	3-⊐L5x3 1/2x1/4			
6'-0"	L5x3 1/2x1/4	2-⊔L3 1/2x2 1/2x1/4	2-⊔L5x3x1/4	3-⊐L5x3x1/4			
8'-0"	L6x3 1/2x1/4	2-⊔L3 1/2x2 1/2x1/4	2-⊔L6x3 1/2x3/8	3-⊔L6x3 1/2x3/8			

SPLICE LENGTH FOR MASONRY CONSTRUCTION				
WIRE SIZE	SPLICE LENGHT	BAR SIZE	SPLICE LENGHT	
W1.7	12"	#4	24"	
W2.1	12"	#5	30"	
W2.8	12"	#6	37"	
W4.9	12"	#7	51"	
		#8	79"	

### NOTES:



S721

/ SCALE:N.T.S

EARING PLATE SCHEDULE (BEAM PERPENDICULAR TO WALL)				
BEAM	SIZE txNxB			
W16	3/4" x 7" x 1'-1"			
W14	3/4" x 7" x 1'-1"			
W12	3/4" x 7" x 1'-1"			
W14(*)	1" x 5 1/2"" x 1'-1"			
W12(*)	1" x 5 1/2"" x 1'-1"			

(\*) - INDICATES BM. BEARING ON EXPOSED EXTERIOR CMU WALL





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	E	PROJECT NORTH

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SHEET TITLE **MASONRY - TYP. DETAILS 1** 

SHEET NUMBER



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	MECHANICAL ABBREVIATIONS	MECHANICAL SYMBOLS LIST	MECHANI	CAL SYMBOLS LIST CONT.	MECHANIC	AL CONTROLS SYMBOLS LIST	MECHANICAL GENERAL NOTES
N	OTE: NOT ALL ABBREVIATIONS MAY BE USED.	NOTE: NOT ALL SYMBOLS MAY BE USED.	NOTE: NO	OT ALL SYMBOLS MAY BE USED.	NOTE	NOT ALL SYMBOLS MAY BE USED.	1. INSTALL ALL WORK TO COMPLY WITH ALL LAWS, REGULATIONS, CODES, AND STANDARDS (FEDERAL STATE AND LOCAL) AS ADOPTED BY THE AGENCIES HAVING
ABBREVIATIO	N DESCRIPTION	SYMBOL DESCRIPTION	SYMBOL	DESCRIPTION	SYMBO	DESCRIPTION	JURISDICTION, INCLUDING REASONABLY ANTICIPATED REVISIONS BASED ON EMERGING TRENDS IN BUILDING REGULATIONS. WHERE ANY OF THESE DIFFER, THE
(D) (E)	EXISTING TO BE DEMOLISHED EXISTING TO REMAIN	AIRFLOW ARROW		TAG - NECK SIZE TAG EXAMPLE: S1-6Ø	AF	AIR FLOW MEASURING DEVICE	MOST STRINGENT SHALL APPLY. 2. CONTRACT DOCUMENTS FOR MECHANICAL WORK ARE SCHEMATIC IN NATURE AND
(F) AFF	FUTURE       ABOVE FINISHED FLOOR	CONNECT TO EXISTING		AIRFLOW (CFM) 100	AS	AIR SWITCH	ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. 3. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO
AMB APD	AMBIENT AIR PRESSURE DROP			TAG - NECK SIZE TAG EXAMPLE: S1-6ø	СТ	CONDUCTIVITY TRANSMITTER	INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. INCLUDE ALL NECESSARY AND APPLICABLE APPURTENANCES,
BAS BFP	BUILDING AUTOMATION SYSTEM BACKFLOW PREVENTOR	PIPE DROP		AIRFLOW (CFM) 100	CS	CURRENT SENSOR	4. ANY DEVIATIONS FROM THE BASIS OF DESIGN THAT REQUIRE ADDITIONAL
BHP BLDG	BRAKE HORSEPOWER BUILDING	PIPE RISE		$\frac{\text{TAG}}{\text{TAG}} \qquad \frac{\text{TAG} \text{ EXAMPLE:}}{\underline{\text{FI}}}$	DP	DIFFERENTIAL PRESSURE TRANSMITTER	<ol> <li>5. COORDINATE THE EXACT REQUIREMENTS AND LOCATION OF WORK WITH THE WORK</li> <li>6. COORDINATE THE EXACT REQUIREMENTS AND LOCATION OF WORK WITH THE WORK</li> </ol>
BOB BOD	BOTTOM OF BEAM BOTTOM OF DUCT	PIPE TEE DOWN		SIDEWALL SUPPLY DIFFUSER	EPT	ELECTRONIC PNEUMATIC TRANSDUCER	OF OTHER TRADES PRIOR TO FABRICATION AND INSTALLATION. PROVIDE ADDITIONAL OFFSETS AND SECTIONS IN DUCTWORK AND/OR PIPING REQUIRED TO MEET THE APPLICABLE, JOB CONDITION REQUIREMENTS, VERIEY, JOB SITE FLEVATIONS
BOP	BOTTOM OF PIPE BOTTOM OF STRUCTURE	I PIPE UNION	-∿→	TAG - NECK SIZE TAG EXAMPLE: S2-12x8	ES	END SWITCH	DIMENSIONS, AND CONDITIONS, PRIOR TO FABRICATION OR INSTALLATION OF THE WORK. COORDINATE EXACT ROUTING OF DUCTWORK AND PIPING WITH OTHER
BTUH	BRITISH THERMAL UNITS PER HOUR CUBIC EEET PER MINUTE	PIPE GUIDES OR SLEEVES		SIDEWALL RETURN/EXHAUST GRILLE <u>R2</u>	FM	FLOW METER	TRADES SO THAT NO CONFLICTS OCCUR WITH DUCTWORK, PIPING, LIGHTS, STRUCTURE, ETC. PROVIDE ALL PERTINENT DATA CONCERNING THE LOCATION, DIMENSIONS, ETC., OF THE MECHANICAL FOLIDMENT THAT PEOLIDES PASES, CURPS
	CENTER LINE CLEAN OUT	FLEXIBLE PIPE CONNECTION		$\frac{\text{TAG}}{\text{AIRFLOW (CFM)}} \xrightarrow{\text{TAG EXAMPLE:}} \frac{100}{\underline{\text{E2}}}$	HOA	HAND-OFF-AUTO SWITCH	AND SUPPORTS TO THE APPROPRIATE TRADES.
COMPR	CLEAN OUT COMPRESSOR	GENERAL SERVICE VALVE (SEE SPECIFICATIONS FOR VALVE TYPE PER APPLICATION)		DAMPERS/DUCT ACCESSORIES	LT	LEVEL TRANSMITTER	6. WHERE CEILINGS ARE INDICATED, ALL DUCTS AND PIPES SHALL BE RAN ABOVE CEILING. IN EXPOSED CONDITIONS, INSTALL DUCTWORK AND PIPING TIGHT TO THE BOTTOM OF STRUCTURE
COP CV	COEFFICIENT OF PERFORMANCE       CONSTANT VOLUME	CHECK VALVE (ARROW INDICATES DIRECTION OF FLOW)		BDD: BACKDRAFT DAMPER FSD: FIRE/SMOKE DAMPER	M	METER	<ol> <li>ALL RATED WALL AND FLOOR PENETRATIONS ARE TO BE SEALED WATER TIGHT AND PACKED WITH FIRE STOR MATERIAL</li> </ol>
DB DIA	DRY BULB DIAMETER	MANUAL BALANCING VALVE		FD: FIRE DAMPER MD: MOTORIZED DAMPER	РНТ	PH TRANSMITTER	ACCESSIBLE LOCATIONS PROVIDE AN APPROPRIATELY SIZED ACCESS DOOR AS
DN EAT	DOWN ENTERING AIR TEMPERATURE	TWO-WAY CONTROL VALVE		VD: VOLUME DAMPER SB: SECURITY BARS	PS	PRESSURE SWITCH	REQUIRED. 9 ALL SEALS BEARINGS PACKINGS AND ACCESSORIES FOR ALL EQUIPMENT AND
EER EFF	ENERGY EFFICIENCY RATIO EFFICIENCY	THREE-WAY CONTROL VALVE			Т	PRESSURE TRANSMITTER	PIPING SPECIALTIES SHALL BE SUITABLE FOR THE CONTINUOUS OPERATIONAL TEMPERATURES, PRESSURES AND CHARACTERISTICS, OF THE SYSTEM THEY SERVE.
EG ESP	ETHYLENE GLYCOL EXTERNAL STATIC PRESSURE	PICBV TWO-WAY PRESSURE INDEPENDENT CONTROL AND BALANCE VALVE		RECTANGULAR DUCT ELBOW UP	(SD)	SMOKE DETECTOR	10. PERFORM A COMPLETE AIR SYSTEM FLOW BALANCE FOR ALL EQUIPMENT THAT IS SHOWN, SCHEDULED OR OTHERWISE IDENTIFIED, AT THE END OF CONSTRUCTION.
EWT FLA	ENTERING WATER TEMPERATURE FULL LOAD AMPS	PRESSURE REDUCING VALVE		OVAL DUCT ELBOW UP		STARTER	11. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND DIRECTION. PROVIDE STRAIGHT INLET
FPI FPM	FINS PER INCH FEET PER MINUTE	RELIEF VALVE	t 🔊	ROUND DUCT ELBOW UP	ТS	TEMPERATURE SWITCH	AND OUTLET DUCTS/PIPES BASED ON MANUFACTURER'S RECOMMENDATIONS. IF IN CONFLICT WITH THE DESIGN INDICATED HEREIN, ADVISE THE ENGINEERS PRIOR TO
FPS FT	FEET PER SECOND			RETURN, RELIEF, AND EXHAUST AIR RECTANGULAR DUCT ELBOW	VFD	VARIABLE FREQUENCY DRIVE	12. COORDINATE THE EXACT LOCATIONS OF DIFFUSERS, GRILLES AND REGISTERS WITH
GAL	GALLONS PER MINUTE	REDUCED PRESSURE BACKFLOW PREVENTER	+ 10	UP OVAL DUCT ELBOW UP	VT	VIBRATION TRANSMITTER	LIGHTS AND ELECTRICAL DEVICES. AIR DEVICES SHALL NOT BE WITHIN 3 FEET OF AN AREA SMOKE DETECTOR.
HD	HEAD	PRESSURE GAUGE WITH STOPCOCK			E	WATER FLOW SWITCH	13. UNLESS NOTED OTHERWISE, PROVIDE BRANCH DUCT TO DIFFUSERS SAME SIZE AS DIFFUSER NECK. FLEXIBLE DUCT CONNECTION TO THE DIFFUSER SHALL BE NO MORE
	INTERDATED DADYALUE	STRAINER WITH BLOW DOWN VALVE		SUPPLY AND OUTDOOR AIR			THAN FIVE FEET IN LENGTH. ALL BRANCH DUCT TAKEOFFS TO AIR DEVICES SHALL HAVE MANUAL PALANCING DAMPER INSTALLED IN AN ACCEPSIBLE LODATION.
KW	INTEGRATED PART LOAD VALUE       KILOWATTS	AUTOMATIC AIR VENT		RECTANGULAR DUCT ELBOW DOWN	MEC	HANICAL SHEET INDEX	14. AIR DEVICES PROVIDED WITH INTEGRAL BALANCE DAMPERS SHALL NOT HAVE AN ADDITIONAL BALANCING DAMPER AT AIR DEVICE BRANCH TAKEOFF.
LAT LWT	LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE			OVAL DUCT ELBOW DOWN	M001	GENERAL INFO - HVAC	5. PROVINE ROOM TEMPERATURE THERMOSTATO FOR ALL POURMENT HAT MAINTAINS SPACE TEMPERATURE. PREFERRED LOCATIONS ARE SHOWN ON THE PLANS.
MBH MCA	THOUSAND BTUH       MINIMUM CIRCUIT AMPACITY	Y         TEMPERATURE/PRESSURE TEST PLUG (PETE'S PLUG)	E CO	ROUND DUCT ELBOW DOWN	M002 M101	HVAC ZONING PLANS DUGOUT LEVEL HVAC DUCTWORK PLAN - OVERALL	THERMOSTATS SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. COORDINATE THE EXACT LOCATIONS OF THERMOSTATS WITH MARKERPOARDS, SWITCHES, AND ANY OTHER WALL MOUNTED FIXTURES PRIOR TO
MFR MOCP	MANUFACTURER MAXIMUM OVERCURRENT PROTECTION			RETURN, RELIEF, AND EXHAUST AIR	M101A	DUGOUT LEVEL HVAC DUCTWORK PLAN - AREA A	ROUGH IN.
N/A NC	NOT APPLICABLE       NORMALLY CLOSED	FLOW METER		RECTANGULAR DUCT ELBOW DOWN	M101D M104	DUGOUT LEVEL HVAC DUCTWORK PLAN - AREA C	AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH
NO NOX	NORMALLY OPEN NITROUS OXIDE	THERMOMETER	10	OVAL DUCT ELBOW DOWN	M104A M104B	CONCOURSE LEVEL HVAC DUCTWORK PLAN - AREA A	TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE FOR PROTECTION TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH
NPLV	NON-STANDARD PART LOAD VALUE	PITCH DOWN IN DIRECTION OF ARROW	E D	ROUND DUCT ELBOW DOWN	M104B M104C	CONCOURSE LEVEL HVAC DUCTWORK PLAN - AREA B CONCOURSE LEVEL HVAC DUCTWORK PLAN - AREA C	MAY COLLECT IN THE SYSTEM(S). 17. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS
NTS	NOT TO SCALE OUTSIDE DIAMETER	HUMIDISTAT WITH ADJUSTABLE CONTROL		NEW WORK DUCTWORK	M104D	PRESS LEVEL HVAC DUCTWORK PLAN - AREA D PRESS LEVEL HVAC DUCTWORK PLAN - OVERALL	OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 PRIOR TO
PD BG	PRESSURE DROP PROPYLENE GLYCOL	H HUMIDITY SENSOR		EXISTING DUCTWORK	M105A M105B	PRESS LEVEL HVAC DUCTWORK PLAN - AREA A PRESS LEVEL HVAC DUCTWORK PLAN - AREA B	COMMISSIONING, AND AGAIN AT THE COMPLETION OF CONSTRUCTION JUST PRIOR TO OCCUPANCY OF THE BUILDING WITH FINAL FILTERS PER SPECIFICATIONS.
PPH	POUNDS PER HOUR	T TEMPERATURE SENSOR	CEEE		M105C M106B	PRESS LEVEL HVAC DUCTWORK PLAN - AREA C ROOF LEVEL HVAC DUCTWORK PLAN - AREA B	MAINTENANCE RECOMMENDATIONS FOR FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.
PPM PRV	PARTS PER MILLION PRESSURE REDUCING VALVE	CO2 CARBON DIOXIDE SENSOR		- NEW WORK PIPING	M201A M204A	DUGOUT LEVEL HVAC PIPING PLAN - AREA ACONCOURSE LEVEL HVAC PIPING PLAN - AREA A	18. INSTALLATION OF HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN ANY CFCS OR HALONS.
REFRIG	POUNDS PER SQUARE INCH REFRIGERANT	CO CARBON MONOXIDE SENSOR	( <del></del>		M204D M205A	CONCOURSE LEVEL HVAC PIPING PLAN - AREA D PRESS LEVEL HVAC PIPING PLAN - AREA A	19. ALL SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SYSTEMS, DEVICES SHALL BE FROM THE BUILDING STRUCTURE. SUPPORT FROM STRUCTURAL BRIDGING IS
RH RPM	RELATIVE HUMIDITY REVOLUTIONS PER MINUTE	NO2 NITROGEN DIOXIDE SENSOR		- DEMOLISHED PIPING	M205B M301	PRESS LEVEL HVAC PIPING PLAN - AREA B MECHANICAL SECTIONS	20. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC., IN A LOCATION OR IN A MANNER THAT
SEER SP	SEASONAL ENERGY EFFICIENCY RATIO STATIC PRESSURE	OS OCCUPANCY SENSOR		1 (	M401 M501	MECHANICAL ENLARGED PLANS MECHANICAL DETAILS	WILL ALLOW FREEZING AND/OR THE COLLECTION OF CONDENSATION.
TSP TYP	TOTAL STATIC PRESSURE TYPICAL			NEW WORK MECHANICAL EQUIPMENT	M601 M602	MECHANICAL SCHEDULES MECHANICAL SCHEDULES	$\mathbb{R}^{2}$
UNO VAV	UNLESS NOTED OTHERWISE VARIABLE AIR VOLUME		나는 나는 것	(WITH CLEARANCE SHOWN)	M701 M801	MECHANICAL DIAGRAMS MECHANICAL SEQUENCE OF OPERATIONS/CONTROLS	
VFD VRF	VARIABLE FREQUENCY DRIVE VARIABLE REFRIGERANT FLOW				M802	MECHANICAL SEQUENCE OF OPERATIONS/CONTROLS	
W WB	WATTS WET BULB			EXISTING MECHANICAL EQUIPMENT			
WG WPD	WATER GAUGE WATER PRESSURE DROP		r				
			1 1 1	DEMOLISHED MECHANICAL EQUIPMENT			
MECHANI	CAL SYSTEM TYPES AND ABBREVIATIONS						
N	OTE: NOT ALL ABBREVIATIONS MAY BE USED.			GENERIC FAN			
	N DESCRIPTION			GENERIC PUMP			
CHS	CHILLED WATER SUPPLY CONDENSER WATER RETURN						
CWS	CONDENSER WATER SUPPLY DBAIN			ACCESS DOOR			
EA	EXHAUST AIR		<u> </u>	TERMINAL BOXES			
GR	GEOTHERMAL RETORN GEOTHERMAL SUPPLY UEAT DUMD DETUDN		II.	VAV TERMINAL BOX (WITH REHEAT)			
HR	HEAT PUMP RETURN HEAT PUMP SUPPLY						
HWR HWS	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY		<u> </u>	VAV TERMINAL BOX (NO REHEAT)			
OA	MAKEUP WATER - GENERIC       OUTDOOR AIR						
PC R	PUMPED CONDENSATE       REFRIGERANT			PLANS, THEN MIN COOLING CFM IS NOT SHOWN ON TO 65% OF MAX COOLING CFM			
RA REL	RETURN AIR RELIEF AIR			2. HEATING CFM IS EQUAL TO MIN COOLING			
SA V	SUPPLY AIR       VENT			CFM. DUCTWORK PLANS			
				TAG			
				MAX COOLING CFM / MIN COOLING CFM			
				TAG			
				GPM			
				TAG EXAMPLES			
			-	TB1         TB1         TB1         TB1           500/200         500         0.5			

NOTE: NOT ALL ABBREVIATIONS MAY BE U			
ABBREVIATION	DESCRIPTION		
CHR	CHILLED WATER RETURN		
CHS	CHILLED WATER SUPPLY		
CWR	CONDENSER WATER RETURN		
CWS	CONDENSER WATER SUPPLY		
D	DRAIN		
EA	EXHAUST AIR		
GR	GEOTHERMAL RETURN		
GS	GEOTHERMAL SUPPLY		
HR	HEAT PUMP RETURN		
HS	HEAT PUMP SUPPLY		
HWR	HEATING HOT WATER RETURN		
HWS	HEATING HOT WATER SUPPLY		
MW	MAKEUP WATER - GENERIC		
OA	OUTDOOR AIR		
PC	PUMPED CONDENSATE		
R	REFRIGERANT		
RA	RETURN AIR		
REL	RELIEF AIR		

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SHEET NUMBER

**GENERAL INFO - HVAC** 

2	12/12/2019	ADDENDUM 2		
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PROJECT NUMBER				
60590790				
SHEET TITLE				

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PROJECT MARSHALL UNIVERSITY BASEBALL STADIUM

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SHEET NUMBER

**PROJECT NUMBER** 60590790 SHEET TITLE DUGOUT LEVEL HVAC DUCTWORK PLAN - AREA A

2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION





KEY PLAN



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## **KEYNOTES**

- 1 GALVANIZED STELL SHEET METAL DRYER VENTS. DRYER VENTS MUST NOT CONTAIN SCREW JOINTS OR OTHER FASTENERS THAT WILL OBSTRUCT THE EXHAUST FLOW. DRYER EXHAUST DUCT SHALL TERMINATE ON OUTSIDE OF BUILDING AND MUST BE EQUIPPED WITH A BACKDRAFT DAMPER AND WALL CAP.
- MAKEUP AIR INTAKE LOUVER WITH MOTORIZED DAMPER INTERLOCKED TO DRYERS. SEE ARCHITECTURAL SHEETS FOR LOVVERINEORMATION SINGLE ZONE ANALOG CONTROLLER WITH DIGITAL TIMER FOR ELECTRIC INFRARED HEATERS
- 208V/3 PHASE, 3-RELAY CONTROL PANEL TO POWER INFRARED ELECTRIC HEATERS IN THE HOME TEAM DUGOUT LOW VOLTAGE CONTROL WIRING TO THE HEATER ANALOG CONTROLLER.
- 208V/3 PHASE, 3-RELAY CONTROL PANEL TO POWER INFRARED ELECTRIC HEATERS IN THE VISITING TEAM DUGOUT. LOW VOLTAGE CONTROL WIRING TO THE HEATER ANALOG CONTROLLER.
- FLEX DUCT REQUIRED AT BUILDING EXPANSION JOINT. SEE ARCHITECTURE DRAWINGS FOR BUILDING EXPANSION JOINT ARCHITECTORE DRAWINGSTOR BOILDING EAFANSION JOINT LOCATIONS AND MOVEMENT CAPABILITIES. CONTRACTOR TO SIZE FLEX DUCTACCORDINGLY. ROUTE DUCTWORK WITHIN WATERPROOF TRENCH. COORDINATE FINAL ROUTING WITH ARCHITECTURAL

DRAWINGS



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SHEET NUMBER

## SHEET TITLE DUGOUT LEVEL HVAC DUCTWORK PLAN - AREA B

60590790

**PROJECT NUMBER** 

2	12/12/2019	ADDENDUM 2
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SHEET NUMBER

# SHEET TITLE CONCOURSE LEVEL HVAC DUCTWORK PLAN - AREA A

60590790

**PROJECT NUMBER** 

2	12/12/2019	ADDENDUM 2
1	12/02/2019	ADDENDUM 1
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### SHEET TITLE CONCOURSE LEVEL HVAC DUCTWORK PLAN - AREA B

60590790

**PROJECT NUMBER** 

2	12/12/2019	ADDENDUM 2
I/R	DATE	DESCRIPTION





**KEY PLAN** 

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2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION PROJECT NUMBER 60590790 SHEET TITLE PRESS LEVEL HVAC DUCTWORK PLAN - AREA A

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- DUAL ZONE ANALOG CONTROLLER WITH DIGITAL TIMER FO ELECTRIC INFRARED HEATERS. SINGLE ZONE ANALOG CONTROLLER WITH DIGITAL TIMER FOR ELECTRIC INFRARED HEATERS. 4807/3 RHASE, 6-RELAY CONTROL PANEL TO POWER 2 INFRARED ELECTRIC HEATERS IN THE OUTDOOR CLUB AND
- BALCONY. LOW VOLTAGE CONTROL WIRING TO THE HEATER ANALOG CONTROLLER. 480V/3 PHASE, 4-RELAY CONTROL PANEL TO POWER 4 INFRARED ELECTRIC HEATERS IN THE SUITE BALCONIES. LOW
- VOLTAGE CONTROL WIRING TO THE HEATER ANALOG CONTROLLER. 480V/3 PHASE, 3-RELAY CONTROL PANEL TO POWER INFRARED ELECTRIC HEATERS IN THE CLUB/TEAM MEETING ROOM BALCONEY. LOW VOLTAGE CONTROL WIRING TO THE
- HEATER ANALOG CONTROLLER. FLEX DUCT REQUIRED AT BUILDING EXPANSION JOINT. SEE ARCHITECTURE DRAWINGS FOR BUILDING EXPANSION JOINT LOCATIONS AND MOVEMENT CAPABILITIES. CONTRACTOR TO SIZE FLEX DUCT ACCORDINGLY.



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2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION **PROJECT NUMBER** 60590790 SHEET TITLE PRESS LEVEL HVAC DUCTWORK PLAN - AREA B





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**PROJECT NUMBER** 

60590790 SHEET TITLE DUGOUT LEVEL HVAC PIPING PLAN - AREA A

2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION





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## **KEYNOTES**

1

- 1 SINGLE LINE REFRIGERANT LINES SHOWN SCHEMATIC IN NATURE FOR VRF SYSTEM READABILITY. HVAC CONTRACTO IS RESPONSIBLE FOR COORDINATING ALL REFRIGERANT PIPING LINE SETS, SIZING, ROUTING, AND ALL ACCESSORIES WITH VRF EQUIPMENT MANUFACTURER. PIPE SIZING SHALL BE BASED ON ACTUAL FIELD DEVELOPED PIPE LENGTHS. ALL REFRIGERANT PIPING SHALL BE FULLY INSULATED. ALL REFRIGERANT PIPING OUTDOORS SHALL BE JACKETED WITH ALUMINUM . AN ENGINEERING REFRIGERANT PIPING INSTALLATION DIAGRAM SHALL BE INCLUDED AS PART OF THE SHOP DRAWING PROCESS. THIS SUBMITTAL SHALL INCLUDE A SITE SPECIFIC 1/4" SCALE INSTALLATION DOCUMENT SET INDICATING ALL REQUIRED LINE SIZES, TRAPS, ACCESSORIES, PITCHING, RISERS, AND INSTALLATION REQUIREMENTS IN ACCORDANCE WITH THE
- MANUFACTURERS RECOMMENDATIONS. (TYPICAL). 2 ROUTE CONDENSATE TO EXTERIOR WALL AND DROP; PENETRATE WALL AND TERMINATE.





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SHEET NUMBER

SHEET TITLE CONCOURSE LEVEL HVAC PIPING PLAN - AREA D

60590790

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2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION

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![](_page_149_Figure_1.jpeg)

- 1 SINGLE LINE REFRIGERANT LINES SHOWN SCHEMATIC IN NATURE FOR VRF SYSTEM READABILITY. HVAC CONTRACTO IS RESPONSIBLE FOR COORDINATING ALL REFRIGERANT PIPING LINE SETS, SIZING, ROUTING, AND ALL ACCESSORIES WITH VRF EQUIPMENT MANUFACTURER. PIPE SIZING SHALL BE BASED ON ACTUAL FIELD DEVELOPED PIPE LENGTHS. ALL REFRIGERANT PIPING SHALL BE FULLY INSULATED. ALL REFRIGERANT PIPING OUTDOORS SHALL BE JACKETED WITH ALUMINUM . AN ENGINEERING REFRIGERANT PIPING INSTALLATION DIAGRAM SHALL BE INCLUDED AS PART OF THE SHOP DRAWING PROCESS. THIS SUBMITTAL SHALL INCLUDE A SITE SPECIFIC 1/4" SCALE INSTALLATION DOCUMENT SET INDICATING ALL REQUIRED LINE SIZES, TRAPS, ACCESSORIES, PITCHING, RISERS, AND INSTALLATION REQUIREMENTS IN ACCORDANCE WITH THE
- MANUFACTURERS RECOMMENDATIONS. (TYPICAL). ROUTE CONDENSATE TO HUB DRAIN WITH INDIRECT 2 CONNECTION. COORDINATE WITH PLUMBING FOR EXACT
- LOCATIONS. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN AND SPILL. 3 SECURE PIPING TO WALL/COLUMN/FLOOR AS REQUIRED TO AVOID BREAKAGE/TRIP HAZARD. COORDINATE WITH
- PLUMBING FOR EXACT LOCATIONS OF FLOOR DRAINS. PIPING EXPANSION JOINT REQUIRED AT BUILDING EXPANSION 4 JOINT. SEE ARCHITECTURE DRAWINGS FOR BUILDING EXPANSION JOINT LOCATIONS AND MOVEMENT CAPABILITIES. CONTRACTOR TO SIZE PIPING EXPANSION JOINT ACCORDINGLY.

![](_page_149_Picture_7.jpeg)

I/R DATE DESCRIPTION **PROJECT NUMBER** 60590790 SHEET TITLE PRESS LEVEL HVAC PIPING PLAN - AREA B

2 12/12/2019 ADDENDUM 2 1 12/02/2019 ADDENDUM 1

![](_page_149_Figure_11.jpeg)

11/15/19

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![](_page_149_Picture_13.jpeg)

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![](_page_149_Picture_34.jpeg)

![](_page_150_Figure_0.jpeg)

![](_page_150_Figure_1.jpeg)

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![](_page_150_Picture_4.jpeg)

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**MECHANICAL SECTIONS** 

2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION PROJECT NUMBER 60590790 SHEET TITLE

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![](_page_150_Picture_8.jpeg)

![](_page_150_Picture_9.jpeg)

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![](_page_151_Figure_0.jpeg)

### **KEYNOTES**

- 1 SINGLE LINE REFRIGERANT LINES SHOWN SCHEMATIC IN NATURE FOR VRF SYSTEM READABILITY. HVAC CONTRACTO IS RESPONSIBLE FOR COORDINATING ALL REFRIGERANT PIPING LINE SETS, SIZING, ROUTING, AND ALL ACCESSORIES WITH VRF EQUIPMENT MANUFACTURER. PIPE SIZING SHALL BE BASED ON ACTUAL FIELD DEVELOPED PIPE LENGTHS. ALL
- REFRIGERANT PIPING SHALL BE FULLY INSULATED. ALL REFRIGERANT PIPING OUTDOORS SHALL BE JACKETED WITH ALUMINUM . AN ENGINEERING REFRIGERANT PIPING INSTALLATION DIAGRAM SHALL BE INCLUDED AS PART OF THE SHOP DRAWING PROCESS. THIS SUBMITTAL SHALL INCLUDE A SITE SPECIFIC 1/4" SCALE INSTALLATION DOCUMENT SET INDICATING ALL REQUIRED LINE SIZES,
- TRAPS, ACCESSORIES, PITCHING, RISERS, AND INSTALLATION REQUIREMENTS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. (TYPICAL). 2 ROUTE CONDENSATE TO NEAREST FLOOR DRAIN AND SPILL.
- SECURE PIPING TO WALL/COLUMN/FLOOR AS REQUIRED TO AVOID BREAKAGE/TRIP HAZARD. COORDINATE WITH PLUMBING FOR EXACT LOCATIONS OF FLOOR DRAINS.
- 3 4" CONCRETE EQUIPMENT PAD. 4 SIZE AND ROUTE INSULATED REFRIGERANT PIPING FROM ACCU1 TO AHU1 PER MANUFACTURERS RECOMMENDATIONS. 5 COMBUSTION AIR INTAKE AND GAS HEATER FLUE SHALL BE SIZED AND ROUTED PER MANUFACTURERS INSTRUCTIONS
- USING FINAL CONTRACTOR COORDINATED ROUTING. SEE DETAILS. 6 ROUTE GAS HEATER AND FLUE CONDENSATE TO CONDENSATE NEUTRALIZER KIT AND SPILL IN NEAREST FLOOR DRAIN. SECURE PIPING TO FLOOR AS REQUIRED TO

AVOID BREAKAGE/TRIP HAZARD. COORDINATE WITH

PLUMBING FOR EXACT LOCATIONS OF FLOOR DRAINS.

![](_page_151_Picture_9.jpeg)

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SHEET NUMBER

DESCRIPTION I/R DATE **PROJECT NUMBER** 60590790 SHEET TITLE MECHANICAL ENLARGED PLANS

2 12/12/2019 ADDENDUM 2

![](_page_151_Figure_13.jpeg)

**KEY PLAN** 

![](_page_151_Picture_15.jpeg)

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![](_page_152_Figure_0.jpeg)

	AHU SECTIONS
POS#	MODULE
1	INLET PLENUM
2	FILTER SECTION
3	ACCESS SECTION
4	ENERGY RECOVERY WHEEL SECTION
5	ACCESS SECTION
6	EXHAUST FAN
7	DISCHARGE PLENUM
8	INLET PLENUM
9	RETURN FANS
10	MIXING BOX / ECONOMIZER
11	MIXING BOX / ECONOMIZER
12	ACCESS SECTION
13	FILTER SECTION
14	ACCESS SECTION
15	HEAT WHEEL
16	ACCESS SECTION
17	STAGGERED AND SPLIT COOLING COIL SECTION
18	SUPPLY FANS
19	ACCESS SECTION
20	GAS HEATER SECTION
21	DISCHARGE PLENUM

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![](_page_152_Picture_11.jpeg)

SHEET NUMBER

12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION **PROJECT NUMBER** 60590790 SHEET TITLE **MECHANICAL DETAILS** 

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![](_page_152_Picture_15.jpeg)

![](_page_152_Picture_16.jpeg)

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![](_page_152_Picture_36.jpeg)

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# **PROJECT SCHEDULE NOTES**

7 PROVIDE HEATERS WITH FLUSH MOUNT FRAME. EACH AREA TO HAVE SOLID STATE CONTROL PACKAGE COMPRISED OF THE

FOLLOWING: EACH DUGOUT - 208V, 3 PHASE, 3-RELAY CONTROL PANEL AND 1 ZONE ANALOG CONTROL WITH DIGITAL TIMER.

8 PROVIDE WITH 2 STAGE HEAT AND 2 STAGE RELAY KIT, HEAT SHIELD, AND FIXED MOUNTING BRACKET.

1 24" CURB. 2 PROVIDE WITH GFCI OUTLET.

5 8" CURB.

3 18" CURB. 4 PROVIDE WITH DISCONNECT SWITCH.

6 EXHAUST AIR DISCHARGE CONNECTION FROM END OF UNIT.

10 PROVIDE ADJUSTABLE AIR PATTERN CONTROLLER. 11 PROVIDE WITH CONCEALED TAPERED MOUNTING FRAME. ADJUSTABLE LOUVERS. 13 75 CFM OUTSIDE AIR.

16 EC MOTOR.

<	9 CONTRACTOR TO COORDINATE THE USE OF MA	NUFACTURER PF	ROVIDED OR FIELD FABRIC	CATED INSULATED PL	LENUM.	CONTIGUOUS WALL.	LOR SELECTED BY	THE ARCHITECT. C	OLOR OF DIFFUSE	RANDFASTE	ENERS TO MATCH COL	LOR OF							30		
OſZ									SCHEDUL	E									31 32		
lecked:	UNIT DATA		BASIS OF D	ESIGN	PER	FORMANCE DATA		HEATING DAT	A	CO(	OLING DATA		ELECTRIC	CAL DATA	GENERA	L DATA			33		
ט D		OUTDOOR			Δ	ARFLOW ESP	DRIVE CA	EAT PACITY DB	LAT TOTAL	L SENS	SIBLE EAT EAT Acity db we	T LAT LAT 3 DB WB			EMERGENCY	WEIGHT					
CRW	TAGLOCATIONFC01111107 STO			MODEL		(CFM) (IN WG)	TYPE (	(MBH) (°F)	(°F) (MBH)	) (ME	BH) (°F) (°F)	) (°F) (°F) MC		OLTS PHASE	POWER	(LBS)	SCHEDUL	E NOTES			
gner: (	FC01         1.L11.07 STO           FC02         1.L11.07 STO           FC03         21.11.03 ELECT / IDE	HP4 HP4 HP4	JOHNSON CONTROLS INC JOHNSON CONTROLS INC	C YIDM054B22S C YIDM054B22S C TIWM015B21S		1,271         0.00           1,271         0.00           530         0.00	DIRECT	37.5         60.0           37.5         60.0           10.4         60.0	90.0         50.4           90.0         50.4           90.0         14.0	43	3.9         80.0         67.0           3.9         80.0         67.0           0.4         80.0         67.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 15 3 15 4 15	208         1           208         1           208         1	No No	97 97 37					
Desi	FC04         3.L9.04 CORRIDOR           FC05         3.L5.02 SUITE 4	HP4 HP3	JOHNSON CONTROLS INC JOHNSON CONTROLS INC	C YIDM008B22S C YICM018B21S	DUCTED CASSETTE	335         0.00           565         0.00	DIRECT	5.5         60.0           11.9         70.0	86.0         7.4           89.0         15.3	6.	3.0         80.0         67.0           2.7         78.0         65.0	62.0         59.0         1.0           63.0         59.0         1.0	0 15 0 15	208         1           208         1	No No	57 37					
	FC06         3.L5.01 SUITE 3           FC07         3.L4.02 SUITE 2	HP3 HP3	JOHNSON CONTROLS INC JOHNSON CONTROLS INC	C YICM018B21S C YICM018B21S	CASSETTE	565         0.00           565         0.00	DIRECT	11.9         70.0           11.9         70.0	89.0         15.3           89.0         15.3	12	2.7         78.0         65.0           2.7         78.0         65.0	63.0         59.0         1.0           63.0         59.0         1.0	0 15 0 15	208         1           208         1	No	37 37					
sis:	FC08         3.L4.01 SUITE 1           FC09         3.L2.03 IDF ROOM	HP3 HP3	JOHNSON CONTROLS INC JOHNSON CONTROLS INC	YICM018B21STIWM030B21S	CASSETTE WALL MOUNTED	565         0.00           777         0.00	DIRECT DIRECT	11.970.019.860.0	89.015.390.026.5	12 19	2.778.065.09.480.067.0	63.0         59.0         1.0           60.0         54.0         0.0	0 15 7 15	208         1           208         1	No No	37 40					
nt Initia	FC103.L2.05 CORRIDORFC113.L1.04 SCOREBOARD / SOUND / REPLAY	HP3 HP2	JOHNSON CONTROLS INC JOHNSON CONTROLS INC	C YIDM036B22S YICM018B21S	DUCTED CASSETTE	1,1830.005650.00	DIRECT DIRECT	23.770.09.570.0	95.030.589.012.1	26 10	6.878.065.00.178.065.0	58.0         56.0         3.0           63.0         59.0         1.0	8 15 0 15	208         1           208         1	No No	97 · · · · · · · · · · · · · · · · · · ·	13				
Igemer	FC123.L1.03 PA ANNOUNCER / OFFICIAL SCORERFC133.L1.02 TV BOOTH	HP2 HP2	JOHNSON CONTROLS INC	C YICM018B21S C YICM012B21S	CASSETTE CASSETTE	565         0.00           459         0.00	DIRECT DIRECT	9.570.06.370.0	89.012.188.08.1	10 6.	0.178.065.05.278.065.0	0         63.0         59.0         1.0           0         67.0         60.0         0.0	0 15 8 15	208         1           208         1	No No	37 35					
t Mana	FC14         3.L1.01 CAMERA           FC15         3.R1.01 HOME RADIO	HP2 HP2	JOHNSON CONTROLS INC JOHNSON CONTROLS INC	C YICM012B21S C YICM012B21S	CASSETTE CASSETTE	459         0.00           459         0.00	DIRECT DIRECT	6.3         70.0           6.3         70.0	88.0         8.1           88.0         8.1	6	5.2         78.0         65.0           5.2         78.0         65.0           5.2         78.0         65.0	0         67.0         60.0         0.3           0         67.0         60.0         0.3           0         67.0         60.0         0.3	8 15 8 15	208         1           208         1	No No	35 35					
Projec	FC16         3.R1.02 VISITING RADIO           FC17         3.R1.03 STUDENT RADIO           FC12         2.P4 24 EMEDITUDE (V/IC) AD SUUTE	HP2 HP2	JOHNSON CONTROLS INC JOHNSON CONTROLS INC	C YICM012B21S C YICM012B21S	CASSETTE CASSETTE	459         0.00           459         0.00	DIRECT DIRECT	6.3         70.0           6.3         70.0           6.3         70.0	88.0         8.1           88.0         8.1	6.	5.2     78.0     65.0       5.2     78.0     65.0       5.2     78.0     65.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 15 8 15	208         1           208         1           208         1	No No	35 35					
	FC18         3.R1.04 EMERITUS / VIS. AD SUITE           FC19         3.R2.01 WORKROOM           EC20         3.R2.01 WORKROOM	HP2 HP2	JOHNSON CONTROLS INC JOHNSON CONTROLS INC	C YICM012B21S C YICM012B21S	CASSETTE CASSETTE	459         0.00           459         0.00           565         0.00		6.3         70.0           6.3         70.0           0.5         70.0	88.0         8.1           88.0         8.1           88.0         8.1	6.	5.2     78.0     65.0       5.2     78.0     65.0       0.1     78.0     65.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 15 8 15 0 15	208         1           208         1           208         1	No No	35					
	FC20S.KS.01 WRITING PRESSFC213.R3.01 WRITING PRESS	HP2 HP2	JOHNSON CONTROLS INC	C YICM018B21S	CASSETTE	565         0.00           565         0.00	DIRECT	9.5     70.0       9.5     70.0	89.0         12.1           89.0         12.1	10	0.1     78.0     65.0       0.1     78.0     65.0	0         63.0         59.0         1.0           0         63.0         59.0         1.0	0 15	208     1       208     1	No	37					
						OUTDOO	R HEAT F	PUMP SCH	IEDULE												
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	TAG FUNCTION MANUFACTURER	MODEI	CAPACITY R	EFRIG	HOT GAS	SCHE A	T CAPACIT	Y AMBIENT (°F)	CAPACITY A	AMBIENT (°F)		CIRCUIT 2		EMERGENC	Y WEIGHT (LBS)	SCHEDUI E	NOTES				
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	HP3VRF FAN COILSJOHNSON CONTROLS INCHP4VRF FAN COILSJOHNSON CONTROLS INC	YVAHR144B42 YVAHR144B42	S 12.0 1	R-410A SCROI	LL No	22.55         29.5           22.55         29.5	122.2	95.0	90.9	0.0	30.0         35.0           30.0         35.0	2	460 3	No	772 4						
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		INF	RARED HEAT	<b>FER SCHEI</b>	DULE (GAS	S)															
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		GH INPUT   L CAPACITY   (	LOW INPUT		LE	ENGTH DEPTH															
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Ţ	S3SUPPLYPRICES4SUPPLYPRICE	JS JS	48 48	1 1 1 1	1 ALUMIN 1 ALUMIN	UM No UM No	20 9, 1 20 9, 1	10 10, 11													
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L_Baset	R5RETURNPRICER6RETURNPRICE	600 600	18" X 12" 24" X 24"		ALUMIN ALUMIN	UM No UM No	20 20														
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## **PROJECT SCHEDULE NOTES**

12 PROVIDE HEATER WITH INTEGRAL DISCONNECT CONTROL TRANSFORMER/CONTACTOR, SUMMER FAN SWITCH, TWO STAGE THERMOSTAT (INTEGRAL UNLESS NOTED OTHERWISE ON FLOOR PLANS), FACTORY PROVIDED CEILING/WALL BRACKET AND

14 MOUNT DIRECTLY ON ROOF; NO CURB. SEE ARCHITECTURE FOR FLASHING DETAIL. 15 OUTSIDE AIR DUCT TO BE BALANCED FOR 20 CFM DUCTED DIRECTLY TO UNIT.

19 12" CURB. 20 MOUNT ON MINIMUM 12" HIGH EQUIPMENT RAILS.

21 PROVIDE WITH PROPORTIONAL SSR HEATER CONTROLS.

22 PROVIDE HEATERS WITH RECESSED T-BAR MOUNTING FRAME. EACH CONCESSIONS AREA TO HAVE SOLID STATE CONTROL PACKAGE COMPRISED OF 208V, 3 PHASE RELAY CONTROL PANEL AND ANALOG CONTROLLER WITH DIGITAL TIMER.

![](_page_153_Figure_22.jpeg)

### **PROJECT SCHEDULE NOTES** 23 PROVIDE GREENHECK BACKDRAFT DAMPER WITH ADJUSTABLE PRESSURE CONTROL AND COUNTER-BALANCE OR APPROVE FOLLOWING: SUITES - 480V, 3 PHASE, 4-RELAY CONTROL PANEL AND EACH SUITE HAS A DEDICATED ZONE ANALOG CONTROL EQUAL. ADJUST THE PRESSURE CONTROL TO OPEN THE DAMPER IN THE EVENT THE CONCESSION ROLL-UP WINDOW WITH DIGITAL TIMER. MEETING ROOM - 480V, 3 PHASE, 3-RELAY CONTROL PANEL AND 1 ZONE ANALOG CONTROL WITH DIGITAL SHUTTERS ARE NOT MANUALLY OPENED. TIMER. OUTDOOR CLUB - 480V, 3 PHASE, 6-RELAY CONTROL PANEL AND 2 ZONE ANALOG CONTROL WITH DIGITAL TIMER. 24 PROVIDE GREENHECK BACKDRAFT DAMPER WITH ADJUSTABLE PRESSURE CONTROL AND COUNTER-BALANCE OR APPROVED EQUAL. ADJUST THE PRESSURE CONTROL TO OPEN THE DAMPER IN THE EVENT THE VENDOR COMMISSARY DOOR IS CLOSED.

![](_page_153_Figure_28.jpeg)

![](_page_153_Picture_29.jpeg)

![](_page_153_Picture_30.jpeg)

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SHEET NUMBER

PROJECT NUMBER 60590790 SHEET TITLE MECHANICAL SCHEDULES

2	12/12/2019	ADDENDUM 2
I/R	DATE	DESCRIPTION
DP		

**ISSUE/REVISION** 

![](_page_153_Picture_35.jpeg)

![](_page_153_Picture_36.jpeg)

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![](_page_153_Picture_66.jpeg)

			-	6
			R H	ANDLING UNIT (ENERGY RECOVERY) THIS AHU IS A VARIABLE AIR VOLUME UNIT. THE UNIT HAS A DRAW THROUGH CONFIGURATION AND
			÷.	CONSISTS OF SUPPLY FANS, RETURN FANS, MIXING BOX, FILTERS, GAS HEATER, DX COOLING COILS,
				ENTHALPY ENERGY RECOVERY WHEEL, EXHAUST FANS, AND AIR FLOW MEASURING DEVICES. THIS UNIT HAS AN ECONOMIZER CYCLE. THE AHU IS PROVIDED WITH A SUPPLY FAN VFD AND RETURN FAN
				VFD. THE AHU IS PROVIDED WITH AN EXHAUST FAN VFD FOR BALANCING PURPOSES ONLY. ONCE THE
Advertion			2.	THIS SEQUENCE OF OPERATION APPLIES TO THE FOLLOWING UNIT:
			,	AAHU1 SYSTEM OPERATION: THE ANU SHALL OPERATE RACED ON AN OCCUPIED IN OCCUPIED THE
			<b>.</b>	STATEM OPERATION: THE AHU SHALL OPERATE BASED ON AN OCCUPIED/UNOCCUPIED TIME OF DAY SCHEDULE WITH MANUAL OVERRIDE LOCATED IN THE SPACE AS WELL AS A MANUAL OVERRIDE
				THROUGH THE BAS. COORDINATE LOCATION OF MANUAL OVERRIDE WITH OWNER.
CLOSE. CORE: THE DUMERES ARE IN THE CORRECT POSITION, AS DETURDED THAT ARE THE BUILTY DUMERES THE BUILTY DUMERES THAT ARE THE DUMERES AND DUMERES THAT AND THE DUMERES AND DUMERES THAT AND THE DUMERES AND			ŧ.	AIR AND EXHAUST AIR DAMPERS SHALL OPEN, AND THE OUTDOOR AIR AND RELIEF DAMPERS SHALL
<ul> <li>And A. S. A. DE ALE ALE ALE ALE ALE ALE ALE ALE ALE AL</li></ul>				CLOSE. ONCE THE DAMPERS ARE IN THE CORRECT POSITION, AS DETERMINED BY DAMPER END
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<ul> <li>Diameter, and a concerned and a conconcerned and a concerned and a concerned and a concerned and</li></ul>				MODULATE TO PROVIDE THE MINIMUM OUTDOOR AIR FLOW. THE OUTSIDE AIR DAMPER SHALL BE
	Heel BEQUENCE MAIL BE INNERED. HEEL REGISTER IN ADDITIONAL DATA DE SUPERIA DE ANALYS OF THE ADDITIONAL DATA DE SUPERIA DE SUPERIA DE ADDITIONAL DATA DE SUPERIA DE SUPERIA DE ADDITIONAL DATA DE SUPERIA DE SUPER			OUTSIDE AIR. ONCE THE MINIMUM OUTDOOR AIR FLOW IS BEING PROVIDED. THE ENERGY RECOVERY
<ul> <li>Deservation of a construction of a</li></ul>				WHEEL SEQUENCE SHALL BE ENABLED.
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<ul> <li>Decomposition of a control of a</li></ul>				MORNING WARM UP / COOL DOWN MODE IF NECESSARY BASED ON SPACE TEMPERATURE. DURING
<ul> <li>TEMPERATURE STITEMATE THE ADDRESS THE SYSTEM SHOLE BY THE OCCUPED BOOKS. BIOLID THE SYSTEM SHOLE STATEMATE ADDRESS SHOLE DO ADDRESS S</li></ul>				REMAIN CLOSED, AND THE RETURN AIR DAMPER SHALL REMAIN OPEN. ONCE THE OCCUPIED SPACE
<ul> <li>The Control And Technic Technic Control C</li></ul>		The characteristic of the second method in the characteristic level in the outer bulket because of the second method in the characteristic of the second method in the second method method in the second method in the second method metho		TEMPERATURE SETPOINT IS REACHED, THE SYSTEM SHALL ENTER OCCUPIED MODE. SHOULD THE
ALIONATIONALY ADJET FOR SUBJECTION TERMS. THE MAIN SUB-CONTROL AND AND THE AND USING THE SYSTEM OF AND				TIME, OR REACH SETPOINT TOO EARLY, THE ADAPTIVE OPTIMAL START SEQUENCE SHALL
<pre>statut sourcesh (PPL unit sources) provides intervent. Intervent sources (PPL Sources) provides intervent sources) provides intervent sources (PPL Sources) provides intervent sources) provides intervent sources (PPL Sources) provides int</pre>				AUTOMATICALLY ADJUST FOR SUBSEQUENT STARTS.
Decement provide sectors and an experimental sector provides and an experimental sectors and an experimal sectors and an experimental sectors			<b>.</b>	SHUTDOWN SEQUENCE. IF ANY SPACE TEMPERATURE DROPS BELOW THE UNOCCUPIED HEATING 60
<ul> <li>Ale Leven, Hes, Ale Ander, Strategul, Arres Line Physics (Line Jurit) Setting.</li> <li>Ale Leven, Hes, Ale Contract, Davids, Jan Carl, Davids, Line Jurit, Setting, Hes, Marker Marker, Hes, Marker Marker, Hes, Marker Marker, Marker Marker, Hes, Marker, Marker Marker, Hes, Marker, Marker, Marker Marker, Hes, Marker, Marker, Marker Marker, Marker</li></ul>	<ul> <li>TUMELTING ALL GENERALDE, MERCH AND SERVICES IN SUBJECT ALL BURNESS IN THE UNIT RELINST.</li> <li>TUMELTING ALL GENERALDE AND THE CONCENTRY OPERATION. DY DAMARCE THE OWNERS AND THE UNIT RELINST.</li> <li>TUMELTING ALL GENERALDE AND THE CONCENTRY OPERATION. THE UNIT RELINST.</li> <li>TUMELTING ALL GENERALDE AND THE CONCENTRY OPERATION. DY DAMARCE THE OWNERS AND THE UNIT RELINST.</li> <li>TUMELTING ALL GENERALDE AND THE CONCENTRY OPERATION. THE UNIT RELINST.</li> <li>TUMELTING ALL GENERALDE AND THE UNIT RELINST.</li> <li>TUMELTING</li></ul>			DEGREE F (ADJUSTABLE) SETPOINT OR ABOVE THE UNOCCUPIED COOLING 85 DEGREE F (ADJUSTABLE)
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ALE EXILICIT ALE AND RELET DURINE USU. LEGINAL COLUMN CONTRUME STATUS AND CONTROLS AND THE EXILIPATION ALE THE ADDISANCE SHALE AND ADDISANCE SHALE	<ul> <li>EUNADY LICE THAT NO PERSENT ALL SECURITY CONTROL BALL TRANSMICTORES AND THE EXTERNAL IN REMERIATION OF THE UNDER CONTROL IN THE SUPPLY AND LICE THAT IN THAT IN THE SUPPLY AND LICE THAT IN THAT IN THE SUPPLY AND LICE THAT IN T</li></ul>			ONCE THE DAMPERS ARE IN THE CORRECT POSITION, AS DETERMINED BY DAMPER END SWITCHES, THE SUPPLY FAN AND RETURN SHALL START. DURING UNOCCUPIED AND OPERATION. THE OUTPOOR
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<ul> <li>B. ITE, WINELY HERUGET THE BASE FROM TEND.</li> <li>D. YOUNDER STREEL FERRING THE BUILT ON HIGH LOCATION IN COLUMN AND AND THE STREET THE</li></ul>	In the UWHEN HIROLOGY IN THE BAR FRONT END. IN THE UNITED STATES AND THE EXAMPLE OF THE SUPERY DOLL THE CONTEON THE COLUMN BUSIEST AND DUCT. IN CONTRACT DUCT STATE PRESENTER ALL OR ONE TAKE LEVEL OF 19 YOL, CAUNTER ALL LEVEL AND THE SUPERY FAIR STREET DUCT. IN CAUNTER ALL PROVIDES AND EMALL END ONE POLS AN EXCESSION? BY THE BULANCENCE CONTRACTOR AND DUCL THE CONTEND. INTER CONTRACTOR ONUMBRIT EN CONTRACTOR ONUMBRIT EN CONTEND. INTER CONTRACTOR ONUMBRIT EN CONTRACTOR ONUMBRI	<ul> <li>In the UWREN HINGLING THE AD FRONT END.</li> <li>IN TOUTION BUT DEALE LIFE OF THE SUPERVISE DECLATE DURL LIKE YEE DECLATED IN THE AD FRONT AND DUCT TO THE ADDITION THE ADDITION THE ADDITION THE ADDITION TO THE ADDITION THE ADDI</li></ul>		RETURN FAN'S AIRFLOW SHALL BE SYNCED. THIS MODE SHALL BE ABLE TO BE INITIATED/SCHEDULED
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<ul> <li>Learning Jung, Buryowit, Imic Controls Binklur Rendert THE UNIT FROM SMULTAROUGLY CONTROL TO MANY CONTROL FOR THE CONTROL SHALL BE ENANCED STREET FOR MARCHARDER (S. 1940)</li> <li>REQUERD OR THE UNITOR AT THEME THE BURYON OF DERREET (FAURTHALE). AND SUBJECT FOR STREET FOR MARCHARD VERTICE SUPPLY ARE S</li></ul>	SMELENUME. SETURE: LIFE CONTROL SINUE PROVIED THE UNIT FROM SMULTAREOUSLY OWNER ADD. PARTINE. GUTTERO, SINUE SISTEMES THE ENROYMEED FOR MARKED STATUS SINUE SOLTAND, CONTROL. HEATING CONTROL SINUE BE ENRORMED WHEN PERMEED SUPPLY AN ENREP DOBINO CONTROL. HEATING CONTROL SINUE BE ENRORMED WHEN PERMEED SUPPLY AN MILTAREOUSLY CONTROL HEATING ENRORMED SOLDER FOR ADDITIONAL SINUE SINUE ADDITIONAL SINUE SINUE ADDITIONAL SINUE SINUE ADDITIONAL SINUE SINUE ADDITIONAL SIN	Amerikan Under Sam Funder. Im El CONTROL SI HALL PROVINCE FOR HANDLE EDISORDEL STATUS SOURCE ADD. FARMER, MATTINE CONTROL SHALL BE ENABLED WHEN EVEN DE HUMOPHICATON E SOURCE ON THE CONTROL. HATTINE CONTROL SHALL BE ENABLED WHEN EVEN DEHUMOPHICATION E SOURCE ON THE CONTROL. HATTINE CONTROL SHALL BE ENABLED WHEN EVEN DEHUMOPHICATION SOURCE ON THE CONTROL HATTINE DE BLEON DO GERERE F ADUITABLE, MAD SUPPLY AN MATANEOUSY CONTROL HATTINE DE BLEON DO GERERE F ADUITABLE, MAD SUPPLY AN MATANEOUSY CONTROL HATTINE DE BLEON DO GERERE F ADUITABLE, MAD SUPPLY AN MATANEOUSY CONTROL HATTINE DE ALTONE DE BEST. THE BAS SHALL MONTOR THE ARROW ADD THE CONTROL AND EURPLY TEMPERATURE BEEST. THE BAS SHALL MONTOR THE ARROW ADD HATTINE DE MAS TO DO THE AND THE MAD SUPPLY AND THE SATE THAN ONE CONTROL THE ANNO MENT THE CONTROL AND THE MAN STOREMENT THAN AND CHE SEREST. THE CONTROL HATTINE IS AT THE ADDITION THE MAN STOREMENT AND THE SEREST. THE ADDITION THE HATTINE AND THE SUPPLY AND THE MAN STOREMENT AND THE STOREMENT AND THE SUPPLY AND TEMPERATURE IS AT THE MANNUM VALUE OF SOLDER / ADJIETABLE J. HE ADDITION THE SATE THAN ONE CONTROL AND THE SATE THE MANNUM AND THE MAN STOREMENT AND THE SATE OF THE SUPPLY AND TEMPERATURE IS A THE MANNUM VALUE OF SOLDER / ADJIETABLE J. HE ADDITIONED THE JAND THE SATE THE MANNUM VALUE OF SOLDER / ADJIETABLE J. HE ADDITIONED THE JAND THE SATE THE MANNUM VALUE OF SOLDER / ADJIETABLE JAND THE SATE OF MERSIONED AND THE SUPPLY AND THE SATE THE MANNUM VALUE OF SOLDER / ADJIETABLE JAND THE SATE OF MERSIONED AND THE SUPPLY AND THE MERSIONED AND THE SATE THE MANNUM VALUE OF SOLDER / ADJIETABLE JAND THE SATE OF MERSIONED AND THE SATE THE MANNUM VALUE OF SOLDER / AND THE SATE OF MERSIONE SETTONT HALL AND THE MANNUM VALUE OF SOLDER / AND THE SATE OF MERSIONE SETTONT HALL AND THE MANNUM VALUE OF SOLDER / ADJIETABLE JAND THE SATE OF MERSIONED AND THE SATE THE MANNUM VALUE OF SOLDER / ADJIETABLE JAND THE SATE OF MERSIONE SETTONT HALL THE MANNUM VALUE OF SOLDER / ADJIETABLE JAND THE SATE OF MERSI		DX COOLING CAPACITY TO MAINTAIN THE DISCHARGE SUPPLY AIR 52 DEGREE F (ADJUSTABLE)
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AF I THE CHILD. AND LEGISTIC CONTROL AT THE CURRENT SPET YAR TEMPERATURE AND STATUTE SUBJECT CONTROL TO CONTROL AT THE CURRENT SPETY AND THE SUPPLY AND THE SUPPLY AND THE CONTROL AND TEMPERATURE AND THE CHILD. AND TEMPERATURE IS OF AN ADDITION THE SUPPLY AND THE CHILD. AND TEMPERATURE IS AND THE SUPPLY AND THE SUPPL	In The Control And Park Lemman. Is defailed than both OPEN AND LESS THAN OR REQUAL TO 95% OPEN. The BAS SHALL CONTING CONTROL AT THE CURRENT SUPPLY AIR TEMPERATURE AND IF THE CONTCOL, AIR TERMINAL IS MORE THAN 95% OPEN AND THE SUPPLY AIR TEMPERATURE AND THE SUPPLY AIR TERMINAL IS ADD STADE, THE ADD STADE, THE ADD STATUE SUPPLY AIR TEMPERATURE (STATUE) SUPPLY AIR TERMINAL IS ADD STADE, THE ADD STATUE SUPPLY AIR TEMPERATURE (STATUE) SUPPLY AIR TERMINAL IS ADD STADE, THE ADD STATUE SUPPLY AIR TEMPERATURE (STATUE) SUPPLY AIR TERMINAL IS ADD STATUE, THE ADD STATUE SUPPLY AIR TEMPERATURE (STATUE) SUPPLY AIR TERMINAL IS A DOS OPEN OR NUMMUM SUPPLY AIR TEMPERATURE (STATUE) SUPPLY AIR TERMINAL IS LESS THAN BS% OPEN AND THE STATUE PRESSURE SETFONT SHALL IF THE CORTICAL AIR TERMINAL IS LESS THAN BS% OPEN AND THE STATUE PRESSURE SETONT SHALL IF THE CORTICAL AIR TERMINAL IS LESS THAN BS% OPEN AND THE STATUE PRESSURE SETONT SHALL IF THE CORTICAL AIR TERMINAL IS LESS THAN BS% OPEN AND THE STATUE PRESSURE SETONT SHALL IF THE CORTICAL AIR TERMINAL IS LESS THAN BS% OPEN AND THE STATUE PRESSURE SETONT SHALL IF THE CORTICAL AIR TERMINAL IS LESS THAN BS% OPEN AND THE STATUE PRESSURE SETONT SHALL IF THE CORTICAL AIR TERMINAL IS LESS THAN BS% OPEN AND THE STATUE PRESSURE SETONT SHALL IF ADD THE ADD THE CORTICAL AND ADD STATUE THE STATUE PRESSURE SETONT SHALL IF ADD THE ADD THE ADD ADD STATUE THE THE ADD OPEN AND STATUE PRESSURE SETONT SHALL IF ADD THE ADD THE ADD ADD STATUE THE THE ADD OPEN AND STATUE PRESSURE SETONT SHALL IF ADD ADD THE ADD ADD STATUE THE THE ADD ADD ADD ADD THE ADD ADD ADD ADD ADD THE ADD ADD ADD ADD ADD ADD ADD ADD ADD AD	In the control load and Look and Look and Control of The Lorent Control of The Super Vian Estimation		ADJUSTMENTS, AND THIS REOCCURS EVERY 10 MINUTES (ADJUSTABLE).
STATE PRESSURE SETSONTS. ID I'THE CRITICAL ART TERMINAL IS MORE THAN 9% OPEN AND THE SUPPLY ART TEMPERATURE IS AT TS MINUM VALUE OF SD GG F (ADUSTABLE), THE BAS BHALL RESET THE SUPPLY ARE STATE PRESSURE SETSONT UP BY MORE THAN 9% OPEN AND THE SUPPLY ARE TEMPERATURE IS CIF THE CRITICAL ART TERMINAL IS MORE THAN 9% OPEN AND THE SUPPLY ARE TEMPERATURE SD GREATER THAN THE MINUMA SUPPLY AR TEMPERATURE (SD GG F ADUSTABLE), THE SUPPLY ARE TEMPERATURE SHALL BE RESET DOWN IN 0.5 DEG F (ADUSTABLE) INCREMENTS UNIT. THE CRITICAL ART TERMINEL AS 10% OPEN OPEN OWNINN IS SDEF (ADUSTABLE) INCREMENTS UNIT. 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THE CRITICAL ARE TEMMENAL IS AT 09% OPEN THE ADRITICAL DISCOMPTINE OF 0.05 I (ADULSTABLE) AND THE STATE PRESSURE IS TOWN THED READEST IS PRECETERMINED MIXIMUM ADULSTABLE), THE SUPPLY ARE TEMPERATURE READEST IS PRECETERMINED MIXIMUM ADULSTABLE). THE TEMPERATURE STATE READEST IS PRECETERMINED MIXIMUM ADULSTABLE, AND THE STATE DISCOMPTINE THROUGH THE ADB FRONT FRO. THE ADB (THE ODI CONTROLLES SHALL UNITATE THE EDOCIDANCE SHOWN AND THE ADB (THE ODI CONTROLLES SHALL UNITATE THE EDOCIDANCE SHOWN AND THE ADB (THE ODI CONTROLLES SHALL UNITATE THE EDOCIDANCE SHOWN AND THE ADB (THE ODI CONTROLLES SHALL UNITATE THE EDOCIDANCE SHOWN ADD THE ADB (THE ODI CONTROLLES SHALL END CONTROLLES ADB (THE ODI CONTROLLES SHALL UNITATE THE EDOCIDANCE SHOWN ADD THE ADB (THE ODI CONTROLLES SHALL END THE ADB (THE ODI CONTROLLES SHALL END CONTROLLES ADB (THE ODI CONTROLLES SHALL END THE ADB (THE ODI CONTROLLES SHA		OPEN, THE BAS SHALL CONTINUE TO CONTROL AT THE CURRENT SUPPLY AIR TEMPERATURE AND
<ul> <li>a. I. DE CARLEA, AN ECONING, IS MOUSE LIAN 95% UPER AND THE SUPPLY AR TEMPERATURE IS AND THE SUPPLY AR TERME TERMINAL AND ECT OF SUPPLY STATE CREASES AND THE SUPPLY AR TEMPERATURE IS OPEN ON THE SUPPLY STATE CRESSURE IS AT ITS PREDETERMINED MAXIMU (ADUISTABLE), O. IF THE CRITICAL AR TERMINAL IS UNDER THAN 95% OPEN AND THE SUPPLY AR TERMERATURE IS GREATER THAN THE MINIMUM SUPPLY AIR TEMPERATURE (SS DEG F ADUISTABLE), THE SUPPLY AR TEMPERATURES SULL BE RESET DOWN IN GS DESI (ADUISTABLE), THE SUPPLY AR TEMPERATURE IS GREATER THAN THE MINIMUM SUPPLY AIR TEMPERATURE (SS DEG F ADUISTABLE), THE SUPPLY AR TEMPERATURE (SS DEG F ADUISTABLE), THE SUPPLY AR TEMPERATURES SULL BE RESET DOWN IN GS DESI (SS DEG) F ADUISTABLE), THE SUPPLY AR TEMPERATURE IS GREATER THAN THE MINIMUM SUPERY, AIR TEMPERATURE (SS DEG F ADUISTABLE), THE SUPPLY AR TEMPERATURE IS GREATER THAN THE MINIMUM SUL STASS THAN 95% OPEN AND THE SUPPLY AR STATE PRESSURE IS AT ITS PREDETERMINED MINIMUM (ADUISTABLE), CONSTANT UNTL THE CORTICAL AR TERMINAL IS AT 95% OPEN OR THE SUPPLY AR TEMPERATURE REACHEST TERMINED TENNING MAXIMUM (GD DEG F (ADUISTABLE)).</li> <li>THE ABLE TRODUCT THE OUTSIDE AR ENTHALPY IS LESS THAN THE RETURNAL IS CONSTANT UNTL THE CORTICAL AR TERMINAL IS AT 95% OPEN OR THE SUPPLY AR TEMPERATURE REACHEST TREDETERMINED MINIMUM (ADUISTABLE).</li> <li>THE HABLE FRONT RUBAL THE OUTSIDE AR ENTHALPY IS LESS THAN THE RETURN AR THE BAS TEMPORT WHEN THE OUTSIDE AR ENTHALPY IS LESS THAN THE RETURN AR THE BAS TEMPORT WHEN THE DEG TOR DEAL TO ADMINISTICATE THE CONSIDER AND AND THE DECONOMER CONTROL WHEN THE OUTSIDE AR ENTHALPY IS LESS THAN THE RETURN AR THE BAS TEMPORT WHEN THE THE CONSIDE AR ENTHALPY IS LESS THAN THE RETURN AR THE BAS TEMPORT WHEN THE THE DEG TOR DEAL TEMPORTURE AND THE DISTON AND AND AND AND AND AND AND AND AND AN</li></ul>	<ul> <li>THE CHILLOW LOW THE TERMONE IS MARKET THAN USE UPER AND THE SUPPLY ARE TEMPERATURE ESTIMATION TO SUPPLY ARE TEMPERATURE AS TALL.</li> <li>THE MINIMUM AULO FOS SIGE FLAUDISTABLE). THE SUPPLY ARE TEMPERATURE IS TEMPINAL IS LESS THAN BYS OPEN. THE SUPPLY ARE TEMPERATURE IS SUPPLY ARE TEMPERATURE AND THE UNIT TEMPERATURE, AND TEMELY AND RELIFFAR TO AND AND AND AND AND AND AND AND AND AND</li></ul>	<ul> <li>THE CHILDRANE IN LEXAMONAL DE MARKE THAN USE UPER AND THE SUPPLY ARE TRAFFFATURE TATUE.</li> <li>THE SAMINAM ALLOY OF SS DEE FLAQUISTABLE). THE SAMUL RESET THE SUPPLY ARE TATUE.</li> <li>THE SAMINAM ALLOY OF SS DEE FLAQUISTABLE). THE SAMUL RESET THE SUPPLY ARE TATUE.</li> <li>THE SAMINAM ALLOY OF SS DEE FLAQUISTABLE). THE SUPPLY ARE TATUE AND THE SUPPLY ARE TATUE.</li> <li>THE SAMINAM ALLOY AND RETAIN SS OF DEA NAD THE SUPPLY ARE TATUE THE GETTOL.</li> <li>THE CRITICAL ARE TERMINAL IS LESS THAN SS OPEN. THE STATIC PRESSURE IS STATIC PRESSURE IS AND THE SUPPLY ARE TATUE AND SO OPEN.</li> <li>THE CRITICAL ARE TERMINAL IS LESS THAN SS OPEN. THE STATIC PRESSURE IS STATIC PRESSURE IS AND THE SUPPLY ARE TATUE AND ON OPEN.</li> <li>THE CRITICAL ARE TERMINAL IS LESS THAN SS OPEN. THE STATIC PRESSURE IS STATIC PRESSURE IS TROM THE AND THE ADDATA TATUE AND AND THE ADDATA TATUE AND AND THE ADDATA TATUE AND AND AND AND AND AND AND AND AND AND</li></ul>		STATIC PRESSURE SETPOINTS.
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Unter un intersupertur sinitie metassave is an it is medicities multiply are temperatures is Construction of the construction of the constructio	UPER OWN THE SUPER JAILS PRESSURES AT ILS PRESETERMINED MAXIMUM (ADUSTABLE). IF THE CRITICAL AND RETRAINAL IS AND RETRAINA BY OPEN ADD THE SUPEY VAR INFERRATURE IS TAMPERATURE SHALL BE RESET DOWN IN S JEES FLADUSTABLE) INCREMENTS UNTIL THE CRITICAL ART REIMINAL STADSO PER DO SOM INUMUM SUPPLY VAR I TEMPERATURE IS REACHED. IF THE CRITICAL AND TERMINAL IS LESS THAN 85% OPEN. THE STATE PRESSURE SETPONIT STALL BE RESET DOWN IN NOREMENTS OF QUESTION VAR IT HE CRITICAL ANT REMINING LAST POSO OPEN. IF THE CRITICAL ANT TERMINAL IS LESS THAN 85% OPEN. AND THE SUPPLY AN RETART PRESSURE SET TOM PERATURE SETTONITY ON DESIDE OF CALUSTANCE. IF THE CRITICAL ANT TERMINAL IS LESS THAN 85% OPEN AND THE SUPPLY AN REMPERATURE RESET DOWN IN NOREMENTS OF QUESTION THE CRITICAL STALL DE PROSONER IS IN RESET ON THE SUPPLY AND REMPERATURE REACHES IT SPREED TERMINE MAXIMUM OF GO DESI (ADUSTABLE). IN THE ABLITY TO DISREGARD SPECIFIC TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE ADE TRONT. UNTARY, THEN THE DIDC CONTROLLER SHALL INTER THE ECONARCE MODE MOULLATE THE ECONARCE CONTROL. WHEN THE OUTSIDE AR ENTHALPY IS LESS THAN THE DISCHARGE SUPPLY AR REMPERATURE SETTONIT. WHEN THE OUTSIDE AR ENTHALPY IS LESS THAN THE DISCHARGE SUPPLY AR INTERPRETING SETTONIT WHEN THE OUTSIDE AR ENTHALPY IS LESS THAN THE DISCHARGE SUPPLY AR REMPERATURE SETTONIT. WHEN THE OUTSIDE AR ENTHALPY IS LESS THAN THE DISCHARGE SUPPLY AR INTERPRETING SETTONIT. WHEN THE OUTSIDE AR ENTHALPY IS LESS THAN THE DISCHARGE SUPPLY AR INTERPRETING SETTONIT ON THE OUTSIDE AR ENTHALPY. INTERPRETING SETTONIT ON THE DUTSIDE AR ENTHALPY IS LESS THAN THE DISCHARGE SUPPLY AR INTERPRETING SETTONIT. THE THE OUTSIDE AR ENTHALPY IS LESS THAN THE DISCHARGE SUPPLY AR INTERPRETING SETTONIT ON THE DUTSIDE AR ENTHALPY. INTERPRETING SETTONIT ON THE DUTSIDE AR ENTHALPY. INTERPRETING SETONIT ON THE OUTSIDE AR ENTHALPY. INTERPRETING SETONIT ON THE OUTSIDE AR ENTHALPY. INTERPRETING SETONIT ON THE OUTSIDE AR ENTHALPY. INTERPRETING SETONIT ON THE DISCHARGE SETONY TH	Unen ver inte super-t statistic Pressuble: Sai 119 PreDETERMIED MXXBUM (ADUBSTABLE). FI FIE CRITICAL AR TERMINAL SINCE THAN BSY OPEN AND THE SUPEY VART EMPERATURE IS MARTERINKAL STATISTIC STATISTICS AND THE SUPEY VART SUPERATURE IS AREA-IED. IF THE CRITICAL AR TERMINAL IS LESS THAN BSY OPEN, THE STATIC PRESSURE SEPTONT SHALL BE FI FIE CRITICAL AR TERMINAL SILESS THAN BSY OPEN, THE STATIC PRESSURE SEPTONT SHALL BE IF THE CRITICAL AR TERMINAL IS LESS THAN BSY OPEN, THE STATIC PRESSURE SEPTONT SHALL BE REST DOWN BY INTERMINATIS OF EGS IN WC UNIT. THE CRITICAL AR TERMINAL IS A TOW OPEN IF THE CRITICAL AR TERMINAL IS LESS THAN BSY OPEN AND THE SUPEY VART STATE PRESSURE SEPTONT HELD CONSTANT. UNIT THE CRITICAL AR TERMINAL IS A TOW OPEN OR THE SUPEY VART THERESURE SEPTONT HELD CONSTANT. UNIT THE CRITICAL AR TERMINAL IS AT DWS OPEN OR THE SUPEY VART THERESURE SEPTONT HELD CONSTANT. UNIT THE CRITICAL AR TERMINAL IS AT DWS OPEN OR THE SUPEY VART THERESURE SEPTONT HELD CONSTANT. UNIT THE CRITICAL AR TERMINAL BAT DWS OPEN OR THE SUPEY VART THERESTONE HELD CONSTANT. UNIT THE CRITICAL AR TERMINAL IS AT DWS OPEN OR THE SUPEY VART THERESTONE HELD CONSTANT. UNIT THE CRITICAL AR TERMINAL IS AT DWS OPEN OR THE SUPEY VART THERESTONE HELD STATUST TO DISPERSATION OF UNIT AND THE CONSTANT THE CONSTANT ON THE DOS CONTROL CONSTANT. UNIT THE CRITICAL AR TERMINAL IS AT DWS OPEN OR THE SUPEY VART THERESTONE HELD STATUST OF THE DOS CONTROL THE WHELL INSTANT THE DESCHARES SUPEY VAR HELD THE CONSTANT ON THE VIEW THE OUTSIDE AR THERE THE CONSTANT ON THE STATE ON THE OWNE HELD STATUST OF THE DOS CONTROL ON THE DWS OPEN ONE AND THE UNIT HELD SOCIAL DY AND THE UNIT ON THE STATE OWNE AND THE UNIT THE CRITICAL ARCHIVEN HELD THE CONSTANT ON THE CRITICAL ARCHIVEN THE WHELL INSTALES THE THAN THE DESCHARES SUPEY VAR HELD SOCIAL DY AND THE UNIT ON THE SUPEY VERTICAL AND THE WHEL INSTALES AND THE WHELL INSTALES AND THE		PRESSURE SETPOINT UP BY INCREMENTS OF 0.25 IN WG UNTIL THE CRITICAL AIR TERMINAL IS AT 90%
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D. IF THE CRITICAL ARE TERMINAL IS LESS THAN 65% OPEN, THE STATIC PRESSURE SETPOINT FIALL DE RESET DOWN BY INCREMENTS OF 0.25 IN WIGHT THE CRITICAL ART TERMINAL 15% TOMOS OPEN. THIS PRECENTERMINED ANNUM ADUSTABLE, AND THE SUPPLY ARE TERMINAL TOP OSSIDIES SETTOINT FIALL DE RABESD AT INCREMENTS OF 0.5 DE F (ADUSTABLE) AND THE STATIC PRESSURE SETTOINT FIALL DE RABESD AT INCREMENTS OF 0.5 DE F (ADUSTABLE) AND THE 5TATIC PRESSURE SETTOINT FIALL DE RABESD AT INCREMENTS OF 0.5 DE F (ADUSTABLE) AND THE 5TATIC PRESSURE SETTOINT FIALL DE RABESD AT INCREMENTS OF 0.5 DE F (ADUSTABLE) AND THE 5TATIC PRESSURE SETTOINT FIALL DE RABESD AT INCREMENTS OF 0.5 DE F (ADUSTABLE) AND THE 5TATIC PRESSURE SETTOINT FIALL DE RABOTEST THE OTESTERAINES ON MAXIMUM OF 0.05 DE (ADUSTABLE) THE BAS FRONT FIND. THE DOTING AND THE FATINALPY IS LOBOR CRITICAL ECONOMIZER CONTROL. WHEN THE OUTSIDE ARE TRAINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT FIND. THE OUTSIDE ARE TRAINED SETTIALTY IS LOBOR CRITICAL ECONOMIZER CONTROL. WHEN THE OUTSIDE ARE THALPY IS LOBOR THAN THE OUTSIDE ARE STITUALY OF HEMPERATURE SETTOINT. WHEN THE OUTSIDE ARE TOMANTANINE DISOFTANCE SUPPLY ARE CADUSTABLE) OR WHEN THE WETLEN ARE ENTIALLY IS LOBOR THAN THE OUTSIDE ARE ENTIALLY? THE THE THE CONTROL WHEN THE WETLE. IN ELE SUPPLY AND THE ANTI-THE OUTSIDE ARE ENTIALLY? ANALL BE OPEN WHEN THE WETLE. IN ELE SUPPLY AND FEED WHEEL SALL DE FRANCH CADUSTABLE). ACOUNT RECOVERY WHEEL IN THE ANTIHALY IS LOBOR THE WHEEL IN THE TANNE DEGREE F ALL DE OFREE F (ADUSTABLE). INTEL SUPPLY THE REARDING BE CREATER THAN SUBGREE F ALL DE OFREE F (ADUSTABLE). THE ENERGY RECOVERY WHEEL S TWO FORMULE BALLE BE ADALED ENERGY RECOVERY WHOEL DURING COUNT MORE THE WHEEL IN THE TWATHAUTS IS THE PERATURE OS ACOUNT RECOVERY WHEEL INTEL SUPPLY THE REARDY RECOVERY WHEEL SUPPLY AN TEMPERATURE SETONT. MEEDS COUNT TO DISK DATES THAN THE WHEEL INTEL SUPPLY THE REARDY RECOVERY WHEEL SUPPLY AND SETURE AND THE ONTER AND THE WHEEL INTEL SUPPLY THE REARDY RECOVERY WHEEL SUPPLY AN	IF THE CONTROL AND TENNED MINIMUM USES THAN 85% OPEN. THE STATIC PRESSURE SETPOINT SHALL BE RESET DOWN BY INCREMENTS OF 0.25 km VG UNTIL THE CRITICAL ANT TEMPORATURE SETTOINT SHALL BE RABED AT INCREMENTS OF 0.25 km VG UNTIL THE CRITICAL ANT TEMPORATURE SETTOINT SHALL BE RABED AT INCREMENTS OF 0.25 km VG UNTIL THE CRITICAL AND THE STATIC PRESSURE SETTOINT FELD BE RABED AT INCREMENTS OF 0.25 km VG UNTIL AN 85% OPEN AND THE STATIC PRESSURE SETTOINT FELD BE RABED AT INCREMENTS OF 0.25 km VG UNTIL AND WG VG UNTIL AND THE STATIC PRESSURE SETTOINT FELD BE RABED AT INCREMENTS OF 0.25 km VG UNTIL AND WG VG UNTIL AND WG UNTIL AND	IF THE CONTROL AND TERMINAL IS LESS THAN 85% OPEN. THE STATIC PRESSURE SETPOINT SHALL BE RESET DOWN BYINGEMENTS OF 0.25 IN WE UNTIL THE CRITICAL ART TERMINAL IS A D96 OPEN. IF THE CRITICAL AIR TERMINAL IS LESS THAN 85% OPEN AND THE SUPPLY AIR ATATC PRESSURE SETFOINT FIALL PERABED AT INCREMENTS OF 0.2 DEG F JADUISTABLE JAND THE STATIC PRESSURE SETFOINT FIALD BE RABED AT INCREMENTS OF 0.2 DEG F JADUISTABLE JAND THE STATIC PRESSURE SETFOINT FIALD REACHES ITS PREDETERMINE ON MOUND OF 0.20 DEG F JADUISTABLE JAND THE STATIC PRESSURE SETFOINT FIALD REACHES ITS PREDETERMINE ON MOUND OF 0.20 DEG F JADUISTABLE JAND THE STATIC PRESSURE SETFOINT FIALD REACHES ITS PREDETERMINE ON DAVISMUM OF 0.20 DEG F JADUISTABLE JAND THE BAS FRONT END ALL DISPLAY WHICH TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END ALL DISPLAY WHICH TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END ALL DISPLAY WHICH TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END ALL DISPLAY WHICH TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END ALL DISPLAY WHICH TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END ALL DISPLAY WHICH TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END ALL DISPLAY WHICH TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE UTDOOR AR RETURN AIR AND RELIFF AIR DAMPERS TO MAINTAIN THE DISCHARGE SUPPLY AIR THE THE CONCOUNCE OF THE RETURN ARE RETER THAN THE OUTSIDE AIR ENTITIATION THE DISCHARGE STATIC THE DISCHARGE SUPPLY TERMERATURE AND THE DISCHARGE ENTITLE THE RETURN ARE RETURN THE WHEEL INLET EXHAUST TERMERATURE AS DAMPERS THAL THE CONCOUNCE DURING COOLING MODE THE WHEEL INLET EXHAUST TERMERATURE AS DAMPERS THAL THE CONCOUNCE DURING COOLING MODE THE WHEEL INLET EXHAUST TERMERATURE AS DAMPERS THAL THE CONCENT WHEEL INLET SUPPLY TERMERATURE IS OFTEN THE DISCHARGE EF FAULUSTABLE AND THE UNIT NEEDS FORTICE THE RETURN ARE RECOVERY WHEELS TWO POSITION BY ASS DAMPERS THAL THE CONCENT WHEEL INLET SUPPLY TERMERATURE IS OFT		I EMPERATURE SHALL BE RESET DOWN IN 0.5 DEG F (ADJUSTABLE) INCREMENTS UNTIL THE CRITICAL AIR TERMINAL IS AT 90% OPEN OR MINIMUM SUPPLY AIR TEMPERATURE IS REACHED.
ALBEEL LOWING PLICE DAYNE AL CLEAR WAG UNTIL LIFE CRITICAL AND TERMINAL IS AT 10% OPEN E FTHE CRITICAL AN TERMINAL IS LESS THAN 80% OPEN AND THE CHATC PRESSURE SETTIONT TREES DE RASED AT INCREMENTS OF 0.5 DEG F (ADUST ARE); AND THE STATE PRESSURE SETTIONT TREES DE RASED AT INCREMENTS OF 0.5 DEG F (ADUST ARE); AND THE STATE PRESSURE SETTIONT TREES THE ADUST DISFECATE DERIVER AN TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END. DISFECTION TO DISFECATE DESCRIPTION DAYNEMUM OF 00 DEG F (ADUST ARE); AND THE STATE PREVENT AN TEMPERATURE REACHES ITS PREDETERNINED MAXIMUM OF 00 DEG F (ADUSTABLE) AND THE STATE PROVIDED THROUGH THE BAS FRONT END. DISFECTION TO DISFECATE DESCRIPTION THE ADUST AND THE STATE PROVIDED THROUGH THE BAS FRONT END. DISFECTION THE DISFECATE DISFECTION THE ADUST AND THE STATE AND THE ADUST AND DISFECTION AND AND THE OUTSIDE AN TEMPERATURE EXCEEDS DESCRIPT AN TEMPERATURE SETPONT, WHEN THE FUTTION ANT THE ADUST AND THE DISCHARGE SUPPLY AR TEMPERATURE SETPONT, WHEN THE CUTSIDE AN TEMPERATURE EXCEEDS DESCRIPT AN TEMPERATURE SETPONT, WHEN THE CUTSIDE AN TEMPERATURE EXCEEDS DESCRIPT AN TEMPERATURE SETPONT, WHEN THE RETRES ON AND THE THE DISCHARGE SUPPLY AR TEMPERATURE SETPONT, WHEN THE RETRES ON AND THE THE DISCHARGE SUPPLY AR TEMPERATURE SETPONT, WHEN THE CUTSIDE AN TEMPERATURE IS GREATER THAN SEGREE F (ADUSTABLE). ACCOUNT RECOVERY MOLE: THE RERS OR RECOVERY WHEEL IS TWO POSITION BYPASS DAMPERS SHALL BE OFEN WHEN THE METER SUPPLY TEMPERATURE IS GREATER THAN THE WHEEL IN THE DEGREE F (ADUSTABLE) (DESTINA THE WHEEL IN TERMENT AND SEGREE F (ADUSTABLE). ACCOUNT RECOVERY MOLE: THE BUSCHARGE SUPPLY AR SEGREF F (ADUSTSTEME, AND THE UNIT TEMPERATURE SETPONT. DURING COCUME MODE THE WHEEL IN TET FLANKS TEMPERATURE, AND THE UNIT TEMPERATURE SETPONT. DURING COCUME MODE THE WHEEL IN TET FLANKS AND THE UNIT TEMPERATURE SETPONT. DURING COCUME MODE THE WHEEL IN TET FLANKS AND THE OSCINARE SUPPLY ANT TEMPERATURE SETPONT. THE DISCHARGE STONNT. DURING COCUME MODE THE WH	PLAGE LOWIN DE INCLEMENTS OF QUE IN INCLEMENTS OF QUE IN THE CHICAL AIR TERMINAL IS AT 10% OPEN AIR STATUS PRESSURE SETTIONT HELD CONTANT UNIT. THE CRITICAL AIR TERMINAL DATA TO SOLO DE TRADUSTABLE). THE ABILITY O DISREGARD SPECIFIC TERMINAL DAVISES AS CRITICAL SHALL BE PROVIDED THROUGH THE DISCONTANT UNIT. THE CRITICAL AIR TERMINAL DAVISES AS CRITICAL SHALL BE PROVIDED THROUGH THE DISCONTANT UNIT. THE CRITICAL OF DISREGARD SPECIFIC TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE DATA THE DAY THAN THE CRITICAL CONTANT UNIT. THE DISCONTECT CONTANT UNIT. THE DISCONTECT CRITICAL DAVISES AS CRITICAL SHALL BE PROVIDED THROUGH THE DAS FRONT END. DISREGARD SPECIFIC TERMINAL DAVISES AS CRITICAL SHALL BE PROVIDED THROUGH THE DAS THAN THE CHITCAL THE DAS FRONT END. DISTORES ON THE OTHER DUTING AN THE THE ECONOMICES MODE. MODULATE THE UNITOOR AIR, RETURN AR AND	PLAGE LOWIN BE INCREMENTS OF QUE IN WE UNITE. THE CRITICAL ARE TERMINAL BA 10 960 OPEN AND THE STATE OPENSURE SETTION THESE OF THE SUPERAY AND THE STATE OPENSURE SETTION THESE OF CONSTANT UNIT. THE CRITICAL AND RETEXAND. OF SO DEG F (ADJUSTABLE) AND THE STATE OPENSURE SETTION THESE OPENSURES SETTION THE CONSTANT UNIT. THE CRITICAL AND THE STATE OPENSURES SETTION THE DECONSTANT UNIT. THE CRITICAL AND THE STATE OPENSURES SETTION THE DECONSTANT UNIT. THE CRITICAL AND THE SUPERAY AND THE STATE OPENSURES SETTION THE DECONSTANT UNIT. THE CRITICAL AND THE SUPERAY SUPERAY AND THE SUPERAY		D. IF THE CRITICAL AIR TERMINAL IS LESS THAN 85% OPEN, THE STATIC PRESSURE SETPOINT SHALL BE
AT ITS PREDETERMINED MINUM (ADJUSTABLE), THE SUPPLY AIR TEMPERATURE SETFORT THED CONSTANT UNTL. THE CRITICAL JAR TERMINAL IS AT 90% OPEN OR THE SUPPLY AIR TEMPERATURE REACHES ITS PREDETERMINE MAXIMUM OF DO BEG F (ADJUSTABLE), AT HEALT THE TERMINAL BOLES OF DEG TRADUCTIONES AND SUPPLY AIR TEMPERATURE REACHES ITS PREDETERMINE MAXIMUM OF DO BEG F (ADJUSTABLE), THE DAS FROMTERED SHALL DISHLAY WHICH TERMINAL BOLES AS CRITICAL SHALL BE PROVIDED THROUGH OTHER DAS FROMTERED SHALL DISHLAY WHICH TERMINAL BOLES AS CRITICAL SHALL BE PROVIDED THROUGH COMMARER CONTROL. WHEN THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ECONOMZER CONTROL. WHEN THE OUTSIDE AIR ENTHALPY IS LOOMENT HAN THE DUSCHARGE SUPPLY AIR TEMPERATURE ESTFORT. "WHEN THE OUTSIDE AIR ENTHALPY IS LOWER THAN THE OUTSIDE AIR ENTHALPY. HENROY RECOVERY WHELE IS THE ENTROY RECOVERY WHELE SHALL BE CORE MODILATE THE OUTDOOR AIR, RETURN AIR, AND RELIEF AIR DAMPERS TO MAINTAIN THE DUSCHARGE SUPPLY AIR SHALL BE OPEN WHEN THE RETURN AIR INTHALPY IS LOWER THAN THE OUTSIDE AIR ENTHALPY. HUNCH THE ADSOLITE VALUE OF THE DIFFERENCE OR ENTWERN THE WHELL INLET ENAL SE ENAL BE ENALDE OPEN WHEL IN THE WHELE IN ET SUPPLY TEMPERATURE SE GREATER THAN S DEGREE F (ADJUSTABLE), OR WHEN THE WHELE INLET SUPPLY TEMPERATURE SE THAN THE UNIT TEMPERATURE AND THE WHELE INLET SUPPLY TEMPERATURE. SO GREATE F (ADJUSTABLE) TEMPERATURE SETFORT. UNTIRG COOLING MOOD THE HENROY RECOVERY WHELE WHEL INLET TEXAL BE FULL ADJUSTABLE) OR THE WHELE INLET SUPPLY TEMPERATURE. AND THE UNIT TEMPERATURE SETFORT. UNTIRG COOLING MOOD THE ENERGY RECOVERY WHEL WILL BE FULL TEMPERATURE SETFORT. THE DISCHARGE SUPPLY AIR SEDREFF F (ADJUSTABLE) TEMPERATURE SETFORT. UNTIRG COOLING MODE THE ENERGY RECOVERY WHEL WILL BE FULL BEED SHORTON TO SATISFY THE DISCHARGE SUPPLY AIR SEDREFF F (ADJUSTABLE) TEMPERATURE SETFORT. THE SUPPLY TEMPERATURE DO SECREFF F (ADJUSTABLE) TEMPERATURE SETFORT. THE SUPPLY AIR SEDREFF F ADJUSTABLE, AT MINIMUM SPECE TOR SED HEATING TO ANISY THE DISCHARGE SUPPLY AIR SEDREFT FAULUE STATUS IS RECOV	AT ITS PREDETERNINED WINIOU (ADUISTABLE), THE SUPPLY AIR TEMPERATURE SETTIONT FEMAL ER ARSED AT INCREMENTS OF G.D.S DEG F ADUISTABLE, AND THE STATIC PRESURES ESTIMATI HEDE CONSTANT UNIT. THE CRETICAL AIR TERMINAL BAY BY AOPEN OR THE SUPPLY AIR TEMPERATURE REACHES ITS PREETERNINED BAXAMUM OF GO DEG F ADUISTABLE). THE ABILITY TO DISREGARD SPECIFIC TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAY FRONT THE DIS BIALL DERYAW WICH TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAY FRONT THE DIS BIALL DERYAW WICH TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THRUPY, THEN THE DIS CONTOLICUES SHALL INTER THE ECONOMIZER MODE. MOULLATE THE ECONOMIZER CONTROL. WHEN THE CUTSIDE AR ENTHALPY IS LESS THAN THE DISCHARGE SUPPLY AIR STMPERATURE SETTIONT. WHEN THE CUTSIDE AR ENTHALPY IS LESS THAN THE DISCHARGE SUPPLY AIR STMPERATURE SETTIONT. WHEN THE CUTSIDE AR ENTHALPY IS LOWER THAN THE OUTSIDE AR ENTHALPY, INTEL 2000 MILEN THE RETURN AIR BATHALPY IS LOWER THAN THE OUTSIDE AR ENTHALPY, INTEL 2000 MILEN THE RETURN AIR BATHALPY IS LOWER THAN THE OUTSIDE AIR ENTHALPY, INTEL THE ECOLOMORY OF LIS AND ALLEND DUBLISS AND THE WHEEL IS DISABLED. THE WARABLE SPEED WHEEL SHALL BE EXHALED ENTHE ASSOCHWEN THE WHEEL IS DISABLED. THE WARABLE SPEED WHEEL INTER AND SOCREE F ALL BE OFEN WHEN THE WHEEL IS DISABLED. THE WARABLE SPEED WHEEL INTER AND SOCREE F ALL BE OFEN WHEN THE WHEEL IS DISABLED. THE WARABLE SPEED WHEEL INTER SHALL BE EXHAUST THE WEERATURE SETIONT. DURING COOLING MODE THE WHEEL INTER EXHAUST TEMPERATURE IS S DEGREE F ADJUSTABLE) OR WHEN THE WHEEL INTER SHALL AND YE BE GREATER THAN THE DISCHARGE SUPPLY AND THE WHEEL INTER SHALL MAY SE BE GREATER THAN THE DISCHARGE SUPPLY AND THE WHEEL INTER THE MERNING WEED WHEEL INTER EXHAUST AND THE WHEEL INTER HEATING RECOVERY WOOE DURING HEATING MODE THE WHEEL INTER EXHAUST AT TEMPERATURE IS S DEGREE F ADJUSTABLE) OF MAINT AN THE MILE INTER THE SHALL MAY SE BE REATER THAN THE DISCHARGE SUPPLY AND THE WHEEL INCE SUPPLY AND THE DISCHARGE IF ADJUSTABLE AND THE MERNING	AT ITS PREDETERNINED MINIMUM (ADJUSTABLE), THE SUPPLY AIR TEMPERATURES ESTFORT SHALL BE RAISED AT INCREMENTS OF G.DS EGF CADUSTABLE), AND THE STATIC PRESSURES ESTFORT HENCO CONSTANT UNTL THE CRITICAL AIR TERMINAL IS AT 90% OPEN OR THE SUPPLY AIR TEMPERATURE REACHES ITS PREETERNINE ON SUBJECT TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE ABLITY TO DISREGARD SPECIFIC TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE AST FRONT WHEN THE CUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR STUTALPY. THEN THE DIS CHALL DERAY AWHICH TERMINAL BOXES AS CRITICAL SOUMARER CONTROL: WHEN THE CUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR STUTALPY. THEN THE DIS CONTROLLER SHALL INTRIFT THE ECOSOMIZER MODE. MOULLATE THE CONTROL WHEN THE CUTSIDE AIR ENTHALPY IS LESS THAN THE OUTSIDE AIR ENTHALPY, IS INTRAPY. THEN THE DIS CONTROL MONTANT THE DISCHARCE SUPPLY AIR SEMPERATURE SETTIONT. WHEN THE CUTSIDE AIR ENTHALPY IS LOWER THAN THE OUTSIDE AIR ENTHALPY, INTRAPY. THEN THE DISCHARCE SUPPLY TEMPERATURE ESCHES S DEGREE F ADJUSTABLE) ON WHEN THE WHEEL IS DISABLED. THE VARABLE SPEED WHEEL STUAL DE ENABLED DIST BALLE, DON WHEN THE WHEEL IS DISABLED. THE VARABLE SPEED WHEEL IS THE THAN S DEGREE F ADJUSTABLE) ON WHEN THE WHEEL IS DISABLED. THE WAREN THE UNIT SETTION THE DIST CONSTRAILS. SUPPLY AIR TEMPERATURE WHEEL INLET SUPPLY TEMPERATURE & ORD THE UNIT SUBSTABLE. DOS CONTROL TO ALL OF THE DISCHARCE SUPPLY AIR STORE F (ADJUSTABLE) DEGREE F (ADJUSTABLE) EDS THAN THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT SUBSTABLE. DEGREE F (ADJUSTABLE) EDS THAN THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT SUBSTABLE. DISCHES CONTROL TO ALL ON THE WHEEL INLET SUPPLY AIR STORE F (ADJUSTABLE) DEGREE F (ADJUSTABLE) EDS THAN THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT SUBSTABLE. DISCHES AND DANNER SETTIONT. THE DISCHARCE SUPPLY AIR STORE F (ADJUSTABLE) AND THE DISCHARCE SUPPLY AIR TEMPERATURE SETTIONT. THE DISCHARCE SUPPLY AIR SETTIONT. THE DISCHARCE SUPPLY AIR STORE SUPPLY AIR SETTIONT. FORST AND THE EXAL AND SUPPLY AIR TEMPERA		E. IF THE CRITICAL AIR TERMINAL IS LESS THAN 85% OPEN AND THE SUPPLY AIR STATIC PRESSURE IS
DELEMOSEJANT INVERSIENTS OF UD LEEP (ADJUSTABLE) AND THE STATIC PRESSURE BETPOINT TELED CONSTANT UNIT. THE CRITICAL ART ERMANAL BOXES & CONST TAU ELEMPERATURE REACHES ITS PREDETERMINED MAXIMUM OF 80 DEG F (ADJUSTABLE). THE DAS FRONT END 3. THE BAS FRONT END 3. THE BAS FRONT END 3. THE BAS FRONT END 3. THE DAS FRONT END 4. THE UNIT THE CURSTOLE AND THE OUTSIDE ARE THAN PH'S LISS THAN THE RETURN AR ENTHALPY, THEN THE DOC CONTROLLES HAAL LINITIATE THE ECONOMIZER MODE. MODULATE THE 4. THE THE ARTINUES SETTIONT. WHEN THE OUTSIDE ARE TEMPERATURE EXCEEDS RE DEGREE F 4. THE THE REAL THE THE THE THE THE CURSTOLE ARE TEMPERATURE EXCEEDS RE DEGREE F 4. THE	De nonsetural investments of the use of industrial bale jamb THE STATIC PRESSURE SETFORM THEO CONSTANT UNIT. THE CRITICAL AMAR TERMINAL BAY TWO OPEN OF THE SUPPLY AIR TEMPERATURE REACHES ITS PREDETERMINED MAXIMUM OF 40 DEG Y (AJUSTALE). THE BAS FRONT END STATUS AND	De nonsetural information of the Level (Audustrate) and THE STATIC PRESSURE SETTION THED CONSTANT UNIT. THE CRITICAL ANA RETEMINAL BOYCES AS CENTRAL SILL BE PROVIDED THROUGH THE DAS FRONT END. THE DAS FRONT END. THE DAS FRONT END. CONSTANT UNIT. THE CONTENDE TERMINAL BOYCES AS CENTRAL, SILL BE PROVIDED THROUGH THE DAS FRONT END. CONSTANT UNIT. THE DAS FRONT END. THE DAS FRONT END. CONSTANT UNIT. THE DAS FRONT END. THE DAS FRONT END.		AT ITS PREDETERMINED MINIMUM (ADJUSTABLE), THE SUPPLY AIR TEMPERATURE SETPOINT SHALL
REACHES ITS PREDETERMINED MAXIMUM OF 60 DEG F (ADUSTRALE). THE ABUITY TO DOREGRADS SPECIFIC TERMINAL BOXES AS CRITICAL. SHALL BE PROVIDED THROUGH THE BAS FRONT END. THE DAS CONTROL. WHEN THE OUTSIDE AIR RUTHALPY IS LESS THAN THE RETURN AIR EDITALPY. THE THE DOCOMPRELIES INALL INTITATE THE ECONAMIZER MORE MOULTE THE OUTDOOR AIR, RETURNAR, AND RELE AIR DAMPERS TO MAINTAIN THE DISCLARGE SUMPLY AIR OUTSIDEATING, WHEN THE AUTSIDE AIR DAMPERS TO MAINTAIN THE DISCLARGE SHOP Y AIR OUTSIDEATING, WHEN THE RUTHAL AIR THAT THE THE CONTINUE AND ENTITY AIR CONDUCTE AND RETURN AIR CHITURIA AIR CHITALPY IS LOWER THAN THE OUTSIDE AIR ENTITALPY, HEN THE ECONOMIZER CYCLE SHALL END. ENERGY RECOVERY WHELL THE LINE ENERGY RECOVERY WHELL STWO POSITION BYPASS DAMPERS SHALL BE OPEN WHEN THE WHELL IN ELS BRAILD THE VIRALLY IS LOWER THAN THE OUTSIDE AIR ENTITALPY, HEN THE ECONOMIZER CYCLE SHALL END. ENERGY RECOVERY WHELL THE ENERGY RECOVERY WHELL STWO POSITION BYPASS DAMPERS SHALL BE OPEN WHEN THE WHELL IN ET SUPPLY TEMPERATURE SIGNATES TEMPERATURE AND THE UNIT THERERATURE AND THE WHELL IN ET SUPPLY TEMPERATURE AND THE UNIT THERERATURE AND THE WHELL IN ET SUPPLY TEMPERATURE, AND THE UNIT THERERATURE AND THE WHELL IN ET SUPPLY TEMPERATURE, AND THE UNIT THERERATURE SETPOINT. DURING COOLING MODE THE ENERGY RECOVERY WHELL WILL BE FULL STATUS. DEGREE F (ADUSTABLE) GENTER THAN THE WHELL INLET SUPPLY TEMPERATURE, AND THE UNIT THEREPATURE SETPOINT. DURING COOLING MODE THE ENERGY RECOVERY WHELL MULL BE FULL STATUS. DEGREE F (ADUSTABLE) GENTER THAN THE WHELL INLET SUPPLY TEMPERATURE, AND THE UNIT MEEDS COOLOVERY MODE. THE ENERGY RECOVERY WHELL MULL BE FULL STATUS. DEGREE F (ADUSTABLE) GENTER THAN THE MEEDER THE WHELL INLET SUPPLY TA TEMPERATURE AND THE WHELL MEDULATE TO MAINTAIN THE DISCHARGE SUPPLY AIR TEMPERATURE RESETOINT. CERCOVERY MODE STORMING AND MODE THE ENERGY RECOVERY WHELE MULL BE FULL MODULATE TO MAINTAIN THE UNCHAINTS. UNDERS AND ADD THE ANALY RESONAL AND THE WHELE MULL ATTEMPERATURE SETTIONT. CERCOVERY MOUSE STO MINTAIN A MINIMUM WHE	REACHES ITS PREDETERNIED MAXIMUM OF 60 DEG F (ADJUSTABLE). THE ABILITY OIDSREGARD SPECIFIC TERMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END. THE BAS FRONT END. THE DAS CRITICAL LER SHALL INTETE THE ECONOMIZER MODE MEDILATE THE DAY. THE THE DD CONTURIER SHALL DURS HAR WHICH TERMINAL BOXES AS CRITICAL. DIVISION OF THE DUTS DE AR ENTHALPY IS LOWER THAN THE OUTSIDE AR ENTHALPY. THE AS FRONT THE DOT CONTUR AR ENTHALPY IS LOWER THAN THE OUTSIDE AR ENTHALPY. THEN THE CONOMIZER CYCLE SHALL END. SHERRY RECOVERY WHELL THE LIPS IS ABALED. THE VARIABLE SPEED WHELL SHE ENABLED THEN THE ASOLOWERY MORE: THE DEFERSTREE STUPY IS THE ENABLES OCOLING RECOVERY WHELL THE DISCHARGE SERVICE THE WHELL INTE TERMANT TEMPERSITY ALL BE CORDINATE WHELL INEL SUBPLY THE MERATURE IS CREATER THAN S DEGREE F ADJUSTABLE). COLING RECOVERY MORE: DURING COOLING MODE THE WHELL INLET EVALUES IT TEMPERATURES IS DEGREE F (ADJUSTABLE). DESTINATION TO WHICH THE WHELL INLET SUPPLY TEMPERATURES IS DEGREE F (ADJUSTABLE). DESTINATION TO ANTING THE DISCHARGE SUPPLY AR SS DEGREE F (ADJUSTABLE) TEMPERATURE SETPOINT. DISCHARGE SUPPLY AR SS DEGREE F (ADJUSTABLE) TEMPERATURES SETPOINT. DISCHARGE SUPPLY AR SS DEGREE F (ADJUSTABLE) TEMPERATURES SETPOINT. DISCHARGE SUPPLY AR SS DEGREE F (ADJUSTABLE) TEMPERATURES SETPOINT. DISCHARGE SUPPLY AR SS DEGREE F (ADJUSTABLE) OF THE UNRED STATUS. THE WHELL INLET SUPPLY TEMPERATURE, AND THE UNSTRA DEGREE F (ADJUSTABLE). OR THE WHELE INLET SUPPLY TEMPERATURE, AND THE UNSTRA DEGREE F (ADJUSTABLE). 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IS LOWER THAN THE OUTSIDE ARE BITHAUPY. HEN THE CONOMIZER COVILE SHALL END. DUSTABLE) THE VALUE OF THE DISC BARE ENVENT THE WHEEL INST SUPPORTION BYRASS DAMPERS HALL BE OPEN WHEN THE DISC BARE ENVENT THE WHEEL INST SUPPORTION BYRASS DAMPERS HALL BE OPEN WHEN THE DISC BARE STRUCTURE IS GREATER THAN THE STRUCTURE AND THE UNIT SUPPORTIONE AND THE WHEEL IS DISABLED. THE VARIABLE SHEEL IN HET SUPPORTIONE IS SOLUTIONED TO SATISTY THE DISCHARGE SUPPLY ARE SOLUTIONED THE WHEEL INST SUPPORTIONE IS SOLUTIONED TO SATISTY THE DISCHARGE SUPPLY ARE SOLUTIONED TO MUENT AND THE UNIT TEMPERATURE SETPONT. 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<ul> <li>THE BASE FRONT END.</li> <li>THE BASE FRONT END.</li> <li>STEE STEPAIT.</li> <li>STEE STEAIT.</li> <li>S</li></ul>	Inc. Ability To Unixed-and or-Cleric Terminal Boxes As CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END SHALL DISPLAY WHICH TERMINAL BOXES) ARE CRITICAL SHALL SHALL DISPLAY WHICH TERMINAL BOXES) ARE CRITICAL SHALL SHALL DISPLAY WHICH TERMINAL BOXES) ARE CRITICAL SHALL SHALL DISPLAY WHICH THE DISPLAY AND SHALL SHALL SHALL SHALL SHALL UTDOOR AIR, RETURN AIR, AND RELIEF AND AMPERS TO MAINTAIN THE DISCHARGE SUPPLY AIR MERRATURE STEPONT. WHEN THE CUTSIDE ARE NTHALPY IS LOWER THAN THE OUTSIDE ARE ENTHALPY, EN THE ECONOMIZER CYCLE SHALL END ALL DE OPEN WHEN THE RETURN ARE ENTHALPY IS LOWER THAN THE OUTSIDE ARE ENTHALPY. EN THE ECONOMIZER CYCLE SHALL END NERROY RECOVERY WHELL. THE EVERGY RECOVERY WHELL'S TWO POSITION BYPASS DAMPERS ALL DE OPEN WHEN THE WHELL DIS DISALED. THE WHELL INLET DEVINE ALL DE ENALUE DE NERRO THE ASSOLUTE VALUE OF THE DIFFERENCE BETWEENT THE WHELL INLET DEVINE COLUME RECOVERY MODE: DURING COOLING MODE THE WHELL INLET DEVINE AND SHORE P DUBITABLE. COOLING RECOVERY MODE: DURING COOLING MODE THE WHELL INLET DEVINE AND DEGREE F (ADUISTABLE) CERTINIC GOOLING MODE THE WHELL INLET DEVINE AND THE UNIT NEEDS COOLING TO SATISFY THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADUISTABLE) STREED SHORT THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADUISTABLE) STREED SHORT TO ANTISFY THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADUISTABLE) STREED FRAINING COOLING MODE THE WHELE INLET SUPPLY TEMPERATURE, SETTONT. THEMPERATURE SETONT. DURING COALING MODE THE WHERE INLET SWITH THERE WILL BE FULL SPEED FRAINCE SETONT. DURING HEATING MODE THE WHERE INLET SWITH THE MEENT THERE FOR THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADUISTABLE) STRUE SPEED FOR MULTICAUSTABLE) DISCHARGE SUPPLY AIR 55 DEGREE F (ADUISTABLE) THE WHERE INLET SWITH THE DISCHARGE AND THE DISCHARGE SHALL SETONT. TRONG TRONG TO SATISFY THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADUISTABLE) AND THE MEESS THE THE SUPPLY AIR THEMPERATURE SETONT. UNIX AND ANTIAN THE DISCHARGE SUPPLY AIR THEMPERATURE SETONT. TRONG TRONG THE WHELE INLET SWITH THE THERE AND AND THE MEESS TO AND THE AN	THE BAILT TU URKEGARD SPECIFIC TEMMINAL BOXES AS CRITICAL SHALL BE PROVIDED THROUGH THE BAS FRONT END SHALL DRAFT WING TEMENAL BOXES ARE CRITICAL SHALL SHE AND THE DRAFT WING THE RETURNING BOXES ARE CRITICAL SHALL SHE AND THE DRAFT CONTROLLER SHALL MITTARE THE EQUIDANCE AND CHORAGES SUPPLY AR WINARY, THEN THE DR CONTROLLER SHALL MITTARE THE EQUIDANCE AND CONTROLS AND ENDER THE ADD RETURN ARE AND RELIEF ARD DAMPERS TO MAINTAIN THE DISCHARGE SUPPLY AR BURERATURE STONT. WHEN THE RETURN ARE ENTHALPY IS LOWER THAN THE OUTSIDE ARE ENTHALPY, HEN THE ECONOMIZER CYCLE SHALL END SHALLED. THE VARIABLE SHOLD SHALL BE ENABLED DAUSTABLE) OR WHEN THE RETURN ARE ENTHALPY IS LOWER THAN THE OUTSIDE ARE ENTHALPY. HEN THE ECONOMIZER CYCLE SHALLE IS IS DABLED. THE VARIABLE SHOLD SHALL BE ENABLED DAUSTABLE) OR WHEN THE RETURN ARE ENTHALPY IS LOWER THAN THE OUTSIDE ARE ENTHALPY. HEN THE ECONOMIZER CYCLE SHALLES IS DISABLED. THE VARIABLE SHOLD SHALL BE ENABLED DAUSTABLE) OR WHEN THE RETURN ARE ENTHALPY IS LOWER THAN THE OUTSIDE ARE ENTHALPY. HEN THE CONCERN WHEN THE RETURN ARE ENTHALPY IS LOWER THAN THE OUTSIDE ARE ENTHALPY. HEN THE CONCERN WHEN THE INEET SUPPLY TEMPERATURES AND THE UNIT NEEDS COLUNG TO GATISFY THE DISCHARGE SUPPLY ARE SDEGREE F (ADJUSTABLE) DEGREEF (ADJUSTABLE) CHEMINE COLUNG MODE THE WHEEL INLET EXHAUST TEMPERATURES IS DEGREEF (ADJUSTABLE) CHEMINE COLUNG MODE THE WHEEL INLET FEAHAUST TEMPERATURES IS DEGREEF (ADJUSTABLE) OR THEN THE DISCHARGE SUPPLY ARE SDEGREEF (ADJUSTABLE) THE MERTING RECOVERY MODE: DURING COLUNG MODE THE WHEEL INLET TEMPERATURES IS THE THE ENTHAL PROTOR TO ANISY THE DISCHARGE SUPPLY ARE SDEGREEF (ADJUSTABLE) AND THE UNIT NEEDS HEATING TO ANISY THE DISCHARGE SUPPLY ARE THERE ENTORY THE ENTHAL PROTOR TO ANISY THE DISCHARGE SUPPLY ARE THERE THAT THE SETTORY. WILL CHANCE MODES TO MANTAN A MINIMUM WHEEL OUT THE EXERCE AND THE WHEEL WILL BODING TO ANY AND THE DISCHARGE SUPPLY ARE THERE AND THE CONTROL ON THE ENTON PROTOR THAN THE THE DISCHARGE SUPPLY ARE THERE AND THE CONTROL ON THE ENTON PROTOR THE		REACHES ITS PREDETERMINED MAXIMUM OF 60 DEG F (ADJUSTABLE).
G THE BAS FRONT END SHALL DISPLAY WHICH TERMINAL BOX(ES) ARE CRITICAL ECONOMIZER CONTROL: WHEN THE OUTSIDE ARE INTINAL? IS LOWER THAN FIRE TERMINAL AND ENTRALINY, THEN THE DOX CONTROLLES SHALL INITIATE THE ECONOMIZER MODE. MODULATE THE EQUIDODA RIN, RETURN ARE, NAMEN THE OUTSIDE ARE TEMPERATURE EXCEEDS & DEGREE F AUGUISTABLE, DOW WHEN THE RETURN ARE NITHALPY IS LOWER THAN THE DUSCHARGE SUPPLY VIR TEMPERATURE SETPOINT. WHEN THE OUTSIDE ARE TEMPERATURE EXCEEDS & DEGREE F SUGUISTABLE, DOW WHEN THE WHELL IN THE INITIATION THE DUSCHARGE SUPPLY VIR TEMPERATURE SETPOINT. WHEN THE OUTSIDE ARE NITHALPY IS LOWER THAN THE OUTSIDE ARE ENTRALPY, THE AREOVERY WHELL. THE ENERGY. COVERNMENT ELE THE ENERGY. ENTRALES AND THE WHELL IN THE SUPPLY TEMPERATURE IS GRAFTER THAN SOLE OF EF (ADUISTABLE). 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C FROST PROTECTION: WHEN THE WHEEL INLET SUPPLY TEMPERATURE DROPS BEOMY THE ENERGY RECOVERY LOOP WITH THE DISCHARGE SUPPLY AIR THEREATURE DROPS BEINT SOME THE INTER STATUS. THE WHEAT WILL BE SCHARGE SETOINT. C FROST PROTECTION: WHEN THE WHEEL INLET SUPPLY TEMPERATURE DROPS BEINT SOME THE SUPPLY RECOVERY LOOP WITH THE WHEEL INLET SUPPLY TEMPERATU	UTDOR AR, RETURN AR, AND RELIEF AR DAMPERS TO MAINTAIN THE DISCHARGE SUPPLY AR MERRATURE STONT, WHEN THE CUTSIDE AR ENTHALPY IS LOWER THAN THE OUTSIDE AR ENTHALPY, HE ECONOMIZER CYCLE SHALL END. NERCY RECOVERY WHELT. THE ENTERGY RECOVERY WHELE STWD POSITION BYASS DAMPERS ALL BE OPEN WHEN THE WHELE. IS DISABLED. THE VIRABLES PEED WHELE SHALL BE ENABLED HEN THE ECONOMIZER CYCLE SHALL END. NERCY TREAMENT HE WHELE IS DISABLED. THE VIRABLES PEED WHELE SHALL BE ENABLED HEN THE ABOLUTE VALUE OF THE DIFFERENCE BETWEEN THE WHELI NLT EXPANJEST DOUING RECOVERY MOBLE. DURING COOLING MODE THE WHELI NLT EXPANJEST TEMPERATURE IS DOUING RECOVERY MOBLE. 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THE DEVICE USE TO ANY ATTERT THE VIEW OF DRUG ANY BLOWER THAN THE OUNCE ADDEED. COLUMN AND AND ANY	Lan Levinola, GLITOMI, MILLET THE, VOI JOLE AND LEVINOLE GLID STALLED SO LEVICE! LINETABLE, OWNERT THE CHINA ARE CHITARLEY IS LOWER THAN THE OUTSIDE ARE ENTRALPY, LEN THE CONVEXER OFCLE SHALL END. LEVIN ECONENTMEELS THAN THE NO. LEVIN ECONENTMEELS THE LE INSTRUCTION OF ANY MEELS TWO POSITION BYASE DAMPERS LEVIN ECONENTMEEL THE LE INSTRUCTION OF ANY MEELS TWO POSITION EVANUE DECONE F LEVIN ECONENTMEELS THAN THE WIELE INSTRUCTION OF ANY MEELS THAN S DECORE F LEVIN ECONENT AND THE WIELE INSTRUCTION OF ANY TEMPERATURE, AND THE UNIT LEGING ECONERY MODE: DURING COOLING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS DEGREEF (ADUSTABLE). LEGING ECONERY MODE: DURING COOLING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS DEGREEF (ADUSTABLE). LEGING ECONERY MODE: DURING COOLING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS DEGREEF (ADUSTABLE). LEGING ECONERY MODE: DURING COOLING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS DEGREEF (ADUSTABLE). LEVING THE EXHAUST ANT REMPERATURE WILL ALWAYS BE CREATER THAN THE DISCHARGE SUPPLY ARE TEMPERATURE. LEVING TEMPERATURE SETPONT. LINING ECONENT AND THE MEELS THAN THE WHEEL INLET EXHAUST TEMPERATURE. LESTATUS, TAR TEMPERATURE SETPONT. LINING TEMPERA	Line Leven Could of Leven The Carlow Are Entrance in the Carlow Carlo		OUTDOOR AIR, RETURN AIR, AND RELIEF AIR DAMPERS TO MAINTAIN THE DISCHARGE SUPPLY AIR
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FROST PROTECTION: WHEN AT UNIT POSTINAL AND MANY SEED FOR SCHALL SHARGE MENT TO ANTONATICALLY RESTATURES STOPPED FOR 3.5 TATUS, THE WHEEL WILL ATTICK THE WITH THE ANTIMALY AND MALED AND MANY SEED FOR CONTROL ON THE WHEEL INTER SETOINT OF SO EGREE F (ADUISTABLE) AT MINIUM SPEED FOR CONTROL AND CONTRIC THE HEATING DI		(ADJUSTABLE) OR WHEN THE RETURN AIR ENTHALPY IS LOWER THAN THE OUTSIDE AIR ENTHALPY.
<ul> <li>EVALUATE CONSTRUCTION OF THE DIFFERENCE DEVINED. YTHE VIRIABLE SIMPLOWING BIARDAUM AND AND AND AND AND AND AND AND AND AND</li></ul>	Includes Creating Number The United Links States of the Difference Between the Wheel Inite Texhaust Expansion of the Difference Between the Wheel Inite Texhaust Texherence of the Difference Between the Wheel Inite Texhaust Texherence Inite Difference Between the Wheel Inite Texhaust Texherence Inite Difference Between the Wheel Inite Texhaust Texherence Inite Between States States States Texherence Inite Between States Sta	Interest of the interest of	3	THEN THE ECONOMIZER CYCLE SHALL END. ENERGY RECOVERY WHEEL'S TWO POSITION BY PASS DAMPERS
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B HAATING RECOVERY MOLE: DURING HEATING MODE THE ENERGY RECOVERY WHEEL MILL SOLUTION TO ADUSTABLE ON THE WHEEL INLET SUPPLY TEMPERATURE DROPS BLOW THE ENERGY RECOVERY UNUM IST SETFONT OF 39 DEGREE F (ADUSTABLE). THE ENERGY RECOVERY LOOP WILL CHANCE MODES TO MAINTAIN A NINIMUM WHEEL OUTLET EXHAUST TEMPERATURE DROPS BLOW THE ENERGY RECOVERY LOOP WILL CHANCE MODES TO MAINTAIN A NINIMUM WHEEL OUTLET EXHAUST AIR TEMPERATURE OF 30 DEGREE F (ADUSTABLE). THE LENERGY RECOVERY WHEEL NULL POSITIVE STATUS IS RECOVERY UNUM INT SECTORIN OF 39 DEGREE F (ADUSTABLE). THE ENERGY RECOVERY LOOP WILL CHANCE MODES TO MAINTAIN A NINIMUM WHEEL OUTLET EXHAUST AIR TEMPERATURE OF 35 DADYS (ADUSTABLE). THE LENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DATUS ADUSTABLE). THE LENERGY RECOVERY WHEEL STATUS IS RECEIVED. D PERIODIC SELF CLEANING: WHEN THE ENREGY RECOVERY WHEEL AND EXHAUST AIR TEMPERATURE AND ENDERGY WHEEL STATUS IS RECEIVED. D PERIODIC SELF CLEANING: WHEN THE ENREGY RECOVERY WHEEL AND ENDERGY WHEEL STATUS, THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEIVED. D PERIODIC SELF CLEANING AND AND AND RE	Hen The ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE WHEEL INLET EXHAUST EMPERATURE IS GREATER THAN 5 DEGREE F DUISTABLE). COOLING RECOVERY MODE DURING COOLING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS 1 DEGREE F (ADUSTABLE) LESS THAN THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT NEEDS COOLING TO SATISFY THE DISCHARES SUPPLY ARS DEGREE F (ADUSTABLE) EXERCISION TO SATISFY THE DISCHARES SUPPLY ARS DEGREE F (ADUSTABLE) TEMPERATURE SETFIONT. DURING COOLING MODE THE WHEEL INLET EXHAUST TEMPERATURE SETFIONT. HEATING RECOVERY MODE: DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE SETFICINT. HEATING RECOVERY MODE: DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS ENDERN. WEEDS HEATING TO SATISFY THE DISCHARES SUPPLY ARS DEGREE F (ADUSTABLE) GREEF (ADUSTABLE) GREATER THAN THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT TEMPERATURE SETFICINT. DURING HEATING MODE THE EVERAL RECOVERY WHEEL MULL STATUS, SETTION: WHEN THE DISCHARES SUPPLY ARS DEGREE F (ADUSTABLE) GREEF (ADUSTABLE) GREATER THAN THE WHEEL INLET SUPPLY TEMPERATURE COVERY WHEEL WILL CHANCE MODES TO MINITAIN A MININUM WHEEL DUTLET EXHAUST AND TEMPERATURE OF BELOW THE DERIC STATUS, THE WHEEL INLET EXHAUST TEMPERATURE DROPS BELOW THE ENERGY WECOVERY LOOVEN UNIT SECTION. SECOVERY LOOVEN THE SUPPLY TANGE AND THE AND TEMPERATURE OF 33 DEGREEF (ADUSTABLE) TO MULT ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEIVED. STATUS, THE WHEEL MULL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEIVED. PERIODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADUSTABLE), TO MULL BE ENERGY DE FOR SECONS (ADUSTABLE) AT MINIMUM SPEED FOR CLEANING AND BLOCKING PROTECTION. STEM SHUTDADALE, IT WILL BE ENERGY DE FOR SECONS (ADUSTABLE) AT MINIMUM SPEED FOR CLEANING AND BLOCKING PROTECTION. STEM SHUTDADALE, IT WILL BE ENERGY DE FOR SECONS (ADUSTABLE) AT MINIMUM SPEED FOR CLEANING AND SLOCKING PROTECTION. STEM SHUTDADALE, IT WILL BE ENERGY DE FOR SECONS SHALL CLOSE, THE ENERGY WHEEL SINLET AND DISCHARGE TEMPERATU	Hen The ABSOLUTE VALUE OF THE DIFFERENCE BITWEEN THE WHEEL INLET EXHAUST EMPERATURE AND THE WHEEL INLET SUPPLY TEMPERATURE IS GRAFTER THAN 5 DEGREE F DJUSTABLE). 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FROST PROTECTION: WHEN THE WHEEL INLET SUPLY TEMPERATURE SETFONT. THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECOVERY LOUD UNTIL SETFORMENT OF 39 DEGREE F (ADJUSTABLE). THE ENERGY RECOVERY WHEEL STATUS, THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEIVED. PERIODICS SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL HAB BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE) TO NULL BE ENERGIZED FOR 5 SECONS (AJJUSTABLE) AT MINIMUM SHEED FOR LEANING AND BLOCKING PROTECTION. STEMS SHUTDOWN: WHEN AND THE ENERGY RECOVERY WHEEL HAB BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE). THE ANTING AND EXAMPTE THE SUPPLY AND RETURN FANS ANAL BE DISABLED. THE OUTDOOR AND, RAMADED OFF, THE SUPPLY AND RETURN FANS ANAL BE DISABLED. THE HENRICH AND COOLING SHALL BE DISABLED ATM MEED FOR LEANING AND SAFETES: THE AUTOMATIC DAMERER'S POSITIONS AND DAMPER END SWITCHES. RETURN AND ROUCH AND		SHALL BE OPEN WHEN THE WHEEL IS DISABLED. THE VARIABLE SPEED WHEEL SHALL BE ENABLED
<ul> <li>(ADJUSTABLE)</li> <li>(ADJU</li></ul>	DURINGED AND A DEVENDED AND A DEVENDED AND AND A DEVENDED AND AND A DEVENDED AND A DAVE AND A DEVENDED AND A DAVE AN	Description of the second seco		WHEN THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE WHEEL INLET EXHAUST TEMPERATURE AND THE WHEEL INLET SUPPLY TEMPERATURE IS GREATED THAN 5 DECREE F
ALCOOLING RECOVERY MODE: DURING COOLING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS I DEGREE F (ADJUSTABLE) LESS THAN THE DISCHARGE SUPPLY AIR S5 DEGREE F (ADJUSTABLE) TEMPERATURE SETPOINT. DURING COOLING MODE THE NERROY RECOVERY WHEEL WILL BE FULL SPEED SINCE THE EXHAUST AIR TEMPERATURE WILL ALWAYS BE GREATER THAN THE DISCHARGE SUPPLY AIR SETPOINT. B HEATING RECOVERY MODE: DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE AND THE UNIT NEEDS HEATING RECOVERY MODE: DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS DEGREE F (ADJUSTABLE) GREATER THAN THE WHEEL INLET SUPPLY THE VERHEAVING. AND THE UNIT NEEDS HEATING TO SATISFY THE DISCHARGE SUPPLY AIR S5 DEGREE F (ADJUSTABLE) CREWERATURE SETPOINT. CRESS HEATING TO SATISFY THE DISCHARGE SUPPLY AIR S5 DEGREE F (ADJUSTABLE) MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AIR S5 DEGREE F (ADJUSTABLE) MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AIR S5 DEGREE F (ADJUSTABLE) MEDILATE OF MAINTAIN THE DISCHARGE SUPPLY AIR S5 DEGREE F (ADJUSTABLE) MECOVERY WHEEL MILL TEMPERATURE DEGREE F (ADJUSTABLE). THE ENERGY RECOVERY WHEEL MEDILATE TO MAINTAIN THE DISCHARGE SUPPLY AIR TEMPERATURE SETPOINT. CRECOVERY LOW LIMIT SETFONT OF 39 DEGREE F (ADJUSTABLE). THE ENERGY RECOVERY WHEEL MEDILATE TO MAINTAIN THE DISCHARGE DEGREE F (ADJUSTABLE) AT MENGAN WHEEL STATUS THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEIVED. D PERIODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE). IT WILL BE ENERGIZED FOR 5 SECONDS (ADJUSTABLE) AT MINIMUM SPEED FOR CLEANING AND BLOCKING PROTECTION. SYSTEM SHUTDOWN: WHEN A UNITIS COMMANDED OFF, THE SUPPLY, EXHAUST AND RETURN FANS SHALL BE DISABLED. THE OUTDOOR AIR, REHAUST AND ACHING MEELS DATABLES AND BLOCKING RETOR TON. SYSTEM SHUTDOWN: WHEN A UNITIS COMMANDED OFF, THE SUPPLY, EXHAUST AND RETURN FANS SHALL BE DISABLED. THE OUTDOOR AIR, RHAUSTAING AND COULING SHALL BE DISABLED AND ENERGY WHEEL SHALL SECONE DECORE. TO DO SAIR, FAHAUSTAIN, AND RETURN FANS AND AND BUDGE SHALL COLOSE,	COULTING RECOVERY MODE. DURING COOLING MODE THE WHEEL INLET SYMAUST TEMPERATURE, AND THE UNIT NEEDS COOLING TO SATISPY THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADJUSTABLE) STEMPERATURE SETTIONT. DURING COOLING MODE THE ENERGY RECOVERY WHEEL WILL BE FULL SPEED SINGE THE EXHAUST AIR TEMPERATURE WILL ALWAYS BE GREATER THAN THE DISCHARGE SUPPLY AIR TEMPERATURE SETTIONT. HEATING RECOVERY MODE. DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE AND DEGREE F (ADJUSTABLE) GREATER THAN THE WHEEL INLET EXHAUST TEMPERATURE, SOL DEGREE F (ADJUSTABLE) GREATER THAN THE WHEEL INLET EXHAUST TEMPERATURE, SETTIONT. HEATING RECOVERY MODE. DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE, SETTIONT. HEATING TO SATISPY THE DISCHARGE SUPPLY AIR S5 DEGREE F (ADJUSTABLE) TEMPERATURE SETTIONT. DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE, SETTIONT. HEATING TO SATISPY THE DISCHARGE SUPPLY AIR TEMPERATURE SETIONT. FROST PROTECTION: WHEN THE WHEEL INE TE SUPPLY TEMPERATURE SETIONT. FROST PROTECTION: WHEN THE WHEEL INE TE SUPPLY TEMPERATURE SETIONT. HEATING TO SATISPY THE DISCHARGE SUPPLY AIR TEMPERATURE SETIONT. DEGREE F (ADJUSTABLE) ON THE WHEEL INLET EXHAUST TEMPERATURE OF 30 DEGREE F (ADJUSTABLE) TO REVENT FREEZER (ADJUSTABLE), THE ENERGY WEEL CONTON. WHEN SETIONT OF 39 DEGREAP RECOVERY WHEEL AND ENERGY WILL CHARGE MODE. STATUS, THE WHEEL AND THE WHEEL INLET EXHAUST AIR TEMPERATURE OF 35 FROST MADIESTABLE). THE AUTOMATION THE THE ENERGY RECOVERY WHEEL AND TEMPERATURE OF 35 FROST MALTING TO ADJUSTABLE) OF THE WHEEL INTO THE SETIONT. STEM SALARIS ON DANITAIN A MININUM WHEEL OUTLET EXHAUST AND RETURE RECOVERY WHEEL STATUS, THE AUTOMATIC THE HEATING SECONDS (ADJUSTABLE) AT MINIMUM SPEED FOR DEANNE AND SOLESTING TO AND ADAPER THE SUPPLY ARE INSPECTOR STATUS IS RECOVEN. STATUS, OUTDOOR AIR, MAND AND STATUST AR AND RELIFE FOMPERS SHALL COORE, THE THE SUPPLY AND RETURE RESONTORS AND DAMPER END SWITCHES. RETURN AIR, OUTDOOR AIR, MAND AND EXTING SHALL BE DISONGLES AND COLORAR CHAR. AUL BE DISAGE S	COOLING RECOVERY MODE. DURING COOLING MODE THE WHEEL INLET SYMAUST TEMPERATURE, AND THE UNIT NEEDS COOLING TO SATISFY THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADJUSTABLE) TEMPERATURE SETTIONT. DURING COOLING MODE THE ENREGY RECOVERY WHEEL WILL BE FULL SPEED SINCE THE EXHAUST AIR TEMPERATURE WILL ALWAYS BE GRATER THAN THE DISCHARGE UPPLY AIR TEMPERATURE SETTIONT. HEATING RECOVERY MODE. DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE AS DEGREE F (ADJUSTABLE) (BEATRICA THAN THE WHEEL INLET EXHAUST TEMPERATURE) AS DEGREE F (ADJUSTABLE) (BEATRICA THAN THE WHEEL INLET EXHAUST TEMPERATURE) AS TEMPERATURE SETTIONT. DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE, AS DEGREE F (ADJUSTABLE) (DERING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE) TEMPERATURE SETTIONT. DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE SECONDATION TO A DISCHARGE SUPPLY AIR SEDEGREE F (ADJUSTABLE) TEMPERATURE SETTIONT. DURING HEATING MODE THE WHEEL INLET EXHAUST AND MULL CHANCE MODES TO MAINTAIN A MINIMUM MODE THE INTERGY RECOVERY UNDE MULL CHANCE MODES TO MAINTAIN A MINIMUM WHEEL OUTLE EXHAUST AND THE MERGY RECOVERY LOW LIMIT SETTONT OF 30 DEGREE F (ADJUSTABLE), THE ENERGY RECOVERY WHEEL INTO MODES TO MAINTAIN A MINIMUM WHEEL OUTLE EXHAUST AND TEMPERATURE OF 33 DEGREE F (ADJUSTABLE), TO PREVENT FREEZING, UPON A LOSS OF ENERGY RECOVERY WHEEL COLARING AND DES TO MAINTAIN A MINIMUM WHEEL OUTLE CHANGES AND DEGREE F (ADJUSTABLE), THE HEARGY RECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE), THO UTDOR THE REREGY RECOVERY WHEEL AND SECHARGE ARE COMENY VIEL CHANCE MODES TO MAINTAIN A MINIMUM WHEEL OUTLE DOSTINE STATUS. THE WEEL WHEEL AND THE CHANNEL AND THE COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS AND AD LOCKING ROPORTOCICO. STEM SHUTDOWN: WHEN A UNT IS COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS AND AD LOCKING ROPORTOCICO. STEM SHUTDOWN: WHEN A UNT IS COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS AND AD LOCKING ROPORTOCICO AND A CANCENCE AND AND AND AND AND AND AND AND		(ADJUSTABLE).
<ul> <li>NEEDS COOLING TO BATISEY THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADJUSTABLE).</li> <li>NETEMPERATURE SETEOINT</li> <li>TEMPERATURE SETEOINT</li> <li>BI HEATING RECOVERY WIDE: DURING COOLING MODE THE WHEEL INLET EXHAUST TEMPERATURE (S)</li> <li>SUPPLY AIR TEMPERATURE SETEOINT.</li> <li>BI HEATING RECOVERY WIDE: DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE (S)</li> <li>DEGREE F (ADJUSTABLE) (REATER THAN THE WHEEL INLET SUPPLY TARES DEGREE F (ADJUSTABLE)</li> <li>TEMPERATURE SETEOINT.</li> <li>CEROST PROTECTION: WHEE DISCHARGE SUPPLY AIR S5 DEGREE F (ADJUSTABLE)</li> <li>TEMPERATURE SETEOINT.</li> <li>CEROST PROTECTION: WHEEL INLET SUPPLY TAREMERATURE SETEOINT.</li> <li>CEROST PROTECTION: WHEN THE WHEEL INLET SUPPLY TARE PROPS BELOW 15 DEGREE F (ADJUSTABLE) THE WHEEL INLET SUPPLY AIR S5 DEGREE F (ADJUSTABLE).</li> <li>CEROST PROTECTION: WHEN THE WHEEL INLET SUPPLY AIR S5 DEGRES F (ADJUSTABLE) THE ENERGY RECOVERY WHEEL STATUS, THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECOVED.</li> <li>DEGREE F (ADJUSTABLE). TO PREVENT FREEZING. UPON ALLOSS OF ENERGY RECOVERY WHEEL STATUS, THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEVED.</li> <li>D. PERODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL AS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE). THE MILL BE ENERGIZED FOR S SECONDS (ADJUSTABLE) AT MINIMUM SPEED FOR CLEANING AND BLOCKING PROTECTION.</li> <li>SYSTEM SHILL BE DEGRES F DOSITIONS AND DAMPER SHALL CLOSE, THE RETURN DAMPER SHALL DE CHARGEZ.</li> <li>SHALL BE DISALED, THE OUTDOOR AIR, EXHAUST AIR, AND RELIEF DAMPERS SHALL CLOSE, THE SHITHE DISCHARGE BOS MICHES.</li> <li>C.THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.</li> <li>C.THEUR NOUTDOR AIR, AND SUPPLY AIR HUMIDITY.</li> <li>F. ENERGY WHEEL SHALL DECHERGIZED FOR SECTIONS.</li> <li>SYSTEM SHILL MONITOR:</li> <li>A.THE SUPPLY AND RETURN FANS SECTIONS.</li> <li>SYSTEM AJARMS AND SAFETIES.</li> <li>C.THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.</li> <li>C.RTURN, AUTOME</li></ul>	NEEDS COOLING TO SATISFY THE DISCHARGE SUPPLY ARE SEDECREPTER ADJUSTINGLE). IN UNIT SPEED SINCE THE EXHAUST AIR TEMPERATURE WILL ALWAYS BE GREATER THAN THE DISCHARGE SUPPLY AIR TEMPERATURE SETPOINT. THEATING RECOVERY MODE: DURING HOATING MODE THE WHEEL INLET EXHAUST TEMPERATURE, AND THE UNIT DEGREE F (ADJUSTABLE) GREATER THAN THE WHEEL INLET SUPPLY TREPREATURE, AND THE UNIT NEEDS HEATING TO SATISFY THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADJUSTABLE) TEMPERATURE SETPOINT. TEMPERATURE SETPOINT. TREDS HEATING TO SATISFY THE DISCHARGE SUPPLY AIR TEMPERATURE OFORS BELOW THE WHIL MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AIR TEMPERATURE OFORS SELOW TO SE DEGREE F (ADJUSTABLE) OR THE WHEEL INLET SUPPLY TEMPERATURE OFORS BELOW TO SE DEGREE F (ADJUSTABLE) OR THE WHEEL INLET SUPPLY TEMPERATURE OFORS SELOW THE ENERCY RECOVERY LOW LIMT SETPONTO F3 3D DEGREE F (ADJUSTABLE), THE ENERCY RECOVERY LOOP WILL CHANCE MODES TO MAINTAIN A MINIMUM WHEEL OUTLET EXHAUST AIR TEMPERATURE OF 30 DEGREE F (ADJUSTABLE) TO PREVENT FREEZING. UPON A LOSS OF ENERCY RECOVERY LOOP WILL CHANCE MODES TO MAINTAIN A MINIMUM WHEEL OUTLET EXHAUST AIR TEMPERATURE OF 33 DEGREE F (ADJUSTABLE). TO HELE ENERCY/EECOVERY WHEEL HAS BEEN STOPPED FOR 33 J DAYS (ADJUSTABLE) TO HULE ENERCY/EECO FOR S SECONDS (ADJUSTABLE) AT MINIMUM SPEED FOR CLEANING AND BLOCKING PROTECTION. YETM SHUTDOWN: WHEN A UNIT IS COMMANDED OF, THE SUPPLY, EXHAUST, AND RETURN FANS YETM SHUTDOWN: WHEN AND HIS IS COMMANDED OF, THE SUPPLY, EXHAUST, AND RETURN FANS YETM SHUTDOWN: WHEN AND HAIT NO MOLOCING SHALL BE DISABLED AND ENERGY WHEEL HALL BE DESNERGED. THE OUTDOOR AIR, AND SUPPLY AIR HUMDITY THE DUFY AND RETURN FANS VFOS. HENROY WHEEL SILLET AND DISCHARGE TEMPERATURE AND HUMDITY FOR BOTH THE SUPPLY AND SUPPLY AND DEMPERS POSITIONS AND DAMPER END SWITCHES. RETURN AND RECEVEN THE MILE TAND DISCHARGE TEMPERATURE AND HUMDITY FOR BOTH THE SUPPLY AND SUPPLY AND RETURN FANS VFOS. HENROY WHEEL SILLET AND DISCHARGE TEMPERATURE AND HUMDITY FOR BOTH THE SUPPLY AND SUPPLY AND RETURN FANS VFOS. HENROY WH	NEEDS COOLING TO SATISFY THE DISCHARGE SUPPLY ARE SEDECREF F. ADJUSTABLE, " South Service SettRown T JURING COOLING MODE THE EXHAUST RELEPTING THE EVALUATION THE PERTATURE SETRING THE EXHAUST AIR TEMPERATURE WILL ALWAYS BE GREATER THAN THE DISCHARGE SUPPLY AR TEMPERATURE AND THE UNIT NEEDS HEATING TO DURING HEATING MODE THE WHEELINLE T EXHAUST TEMPERATURE, MO THE UNIT NEEDS HEATING TO SATISFY THE DISCHARGE SUPPLY AR 55 DEGREE F (ADJUSTABLE) FOR DO THE UNIT NEEDS HEATING TO ANTIAN THE DISCHARGE SUPPLY AR 55 DEGREE F (ADJUSTABLE) THE WINES UNITS MEDRATURE SETROINT. FROST PROTECTION. WHEN THE WHEELINLET SUPPLY TEMPERATURE AND THE UNIT NEEDS HEATING TO SATISFY THE DISCHARGE SUPPLY AR 55 DEGREE F (ADJUSTABLE) THE WHEILINLET SUPPLY TEMPERATURE SUPPLY SATISFY. THE DISCHARGE SUPPLY AR 55 DEGREE F (ADJUSTABLE) THE EVENT THE WINES THE WHEELINLET SUPPLY TEMPERATURE SUPPLY SATISFY. THE WINES THE WHEELINLET SUPPLY TEMPERATURE SUPPLY AND SELOW THE EVERGY RECOVERY UNIT SETROTY TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECOVERY UNITS STOPPED TO A 3.5 DAYS (ADJUSTABLE) TO PREVENT FREEZONG. UPON A LOSS OF ENERGY RECOVERY UNITS IS RECEVED. JESTATUS THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEVED. JESTATUS AND BLOCKING PROTECTION. SECONDS (ADJUSTABLE) AT MINIMUM SPEED FOR 3.5 DAYS (ADJUSTABLE), THE HEATING AND COOLING SHALL BE DISABLED, AT MINIMUM SPEED FOR 3.5 DAYS (ADJUSTABLE), ADJUSTABLE), AT MINIMUM SPEED FOR 3.5 DAYS (ADJUSTABLE), ADJUSTABLE), ADJUSTABLE, ADJUSTABLE, ADJUSTABLE), ADJUSTABLE), ADJUSTABLE), ADJUS		A.COOLING RECOVERY MODE: DURING COOLING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS 5 DEGREE F (ADJUSTABLE) LESS THAN THE WHEEL INLET SUPPLY TEMPERATURE AND THE UNIT
I LEMECRAN LARS ALL PLAINT. DURING GUOLING MODE THE ENERGY REGOVERY WHEEL MILL BE FUEL SPEED SINGE THE EXHAUST AIR TEMPERATURE WILL AUWAYS BE GREATER THAN THE DISCHARCE SUPPLY AIR TEMPERATURE SETPOINT. B. HEATING RECOVERY MODE DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS ? DEGREE F (ADJUSTABLE) GREATER THAN THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT NEEDS HEATING TO SATISPY THE DISCHARCE SUPPLY AIR SO DEGREE F (ADJUSTABLE) TEMPERATURE SETPOINT. DURING HEATING MODE THE ENERGY RECOVERY WHEEL WILL MODULATE TO MAINTAIN THE DISCHARCE SUPPLY AIR TEMPERATURE DROPS BELOW THE ENERGY RECOVERY LOW LIMIT SETPOINT OF 39 DEGREE F (ADJUSTABLE) OTHER WHEEL MILL MODULATE TO MAINTAIN A MINUASI TEMPERATURE DROPS BELOW THE ENERGY RECOVERY LOW LIMIT SETPOINT OF 39 DEGREE F (ADJUSTABLE) THE ENERGY RECOVERY UNCEL STATUS, THE WHEEL WILL TEMPENT AURAS TEMPERATURE DROPS BELOW THE ENERGY RECOVERY LOW LIMIT SETPOINT OF 39 DEGREE F (ADJUSTABLE) THE ENERGY RECOVERY UNCEL STATUS, THE WHEEL WILL DE NERGY LECTOMAL DOMAINCALLY RESTART UNTIL POSITIVE STATUS IS RECEVED. D FERGO/OX.SET FCLENNIC, WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 35 DEGREE F (ADJUSTABLE) TO PREVENT FREEZING. UPON ALLOSS OF FNERGY RECOVERY WHEEL STATUS, THE WHEEL WILL BE ENERGY DEGREE F F (ADJUSTABLE) AT MINIMUM SPEED FOR D FERGO/OX.SET FCLENNIC, WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 35 D FERGO/OX.SET FCLENNIC, WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 35 D FERGO/OX.SET FCLENNIC, WHEN THE ENERGY RECOVERY WHEEL AND SED FOR THE DCC SYSTEM SHALL MONITOR: A THE SUPPLY AND RETURN FANS VERS. SHALL BE DISABLED. THE OLITICO AND RAD PAMPER END SWITCHES. THE DCC SYSTEM SHALL MONITOR: A THE SUPPLY AND RETURN FANS VERS. E NERGY WHEEL STALL MONITOR: A THE SUPPLY AND RETURN FANS VERS. STETISM AURAYS AND SAFETIES: C ATHER AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES. C THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES. C THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES. C THE AUTOMATIC AND RESULT AND DISCHARGE AIR	I EXPECTATIONE SELFUSION. LURING LUCULING MOUDE THE ENERGY RECOVERY WHEEL MULE BETULE SPEED SINCE THE EXHAUST AIR TEMPERATURE WILL ALWAYS BE GREATER THAN THE DISCHARCE SUPPLY AR TEMPERATURE SETPOINT. HEATING RECOVERY MODE. DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE IS S DEGREE F (ADJUSTABLE) GREATER THAN THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT NEEDS HEATING TO SATISY THE DISCHARGE SUPPLY AR TEMPERATURE FOLOUEST MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AR TEMPERATURE FOLOUEST WILLED I TEMPERATURE SETPOINT. DURING HEATING MODE THE ENERGY RECOVERY WHEEL WILL MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AR TEMPERATURE DROPS BELOW THE ENERGY RECOVERY LOW LIMIT SETPOINT OF 3D EGREE F (ADJUSTABLE), THE ENERGY RECOVERY UNEL IL CHANGE MODES TO MAINTAIN A MIMIUM WHEEL OUTLET EXHAUST AR TEMPERATURE OF 3D DEGREE F (ADJUSTABLE) TO PREVENT FREEZING. UPON ALOSS OF ENERGY RECOVERY WHEEL STATUS, THE WHEEL WILL ATEMPT TO ALUTAMATICALLY RESTART UNIT. POSITIVE STATUS IS RECEIVED. DEGREE F (ADJUSTABLE) TO PREVENT FREEZING. UPON ALOSS OF ENERGY RECOVERY UNELL CHANGE AND BLOCKING PROTECTION. STEM SHUTDOWN. WHEN A UNIT IS COMMANDED OFF, THE SUPPLY AND SECURE TAUSIS RECEIVED. STEMES BILL DEANNER OFTECTION. STEM SHUTDOWN. WHEN A UNIT IS COMMANDED OFF, THE SUPPLY P, EXHAUST, AND RETURN FANS HALL BE DISALED, THE OUTOOR AR, EXHAUST AR, AND RELIEF DAMPERS SHALL COSE, THE ETURN DAMPER SHALL OPEN. THE HEATING AND COOLING SHALL BE DISABLED AND ENERGY WHEEL FILL BUPPLY AND RETURN FANS VFDS. ENERGY WHEEL VFD. ENERGY WHEEL VFD. ENERGY WHEEL VFD. ENERGY WHEEL VFD. ENERGY WHEEL VFD. ENERGY WHEEL AND DECOMPLY ARE AND AMPER END SWITCHES. THE SUPPLY AND RETURN FANS VFDS. ENERGY WHEEL AND RETURN FANS VFDS. ENERGY WHEEL AND RETURN FANS SUPPLY AND REPORT AND RETURN FANS SUPPLY AND RETURN FANS AND DAMPER END SWITCHES. 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THE ENERGY RECOVERY LOW LCANAGE MODES TO MAINTAIN A MINIMUM CHE DURING SOF ENERGY AR TEMPERATURE OF STATUS. THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTER POSITOE STATUS IS RECEIVED. PERIODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE). IT WILL BE ENERGY/ECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE). IT WILL BE ENERGY/ECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE). IT WILL BE ENERGY/ECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE). IT WILL BE ENERGY/ECOVERY WHEEL HAS DES STOPPED FOR 3.5 DAYS (ADJUSTABLE). IT WILL BE ENERGY/ECOVERY WHEEL HAS DES STOPPED FOR 3.5 DAYS (ADJUSTABLE). IT WILL BE ENERGY/ECOVERY WHEEL HALL BE DISABLED, THE OUTDOOR ARE, EXHAUST ARR, AND RELIEF DAMPERS SHALL CLOSE, THE ETURN DAMPER SHALL ORNITOR: THE SUPPLY AND RETURN FANS YEDS. ENERGY WHEEL SHALL SOUTOR: RETURN AND SAFE THE MEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AND RETURN FANS YEDS. ENERGY WHEEL STALL ON TOR: THE SUPPLY AND RETURN FANS YEDS. ENERGY WHEEL SILL TAND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST ANTER PERATURE. AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND SUPPLY AND RETURN FANS YEDS. ENERGY WHEEL SILL TAND DISCHARGE TEMPERATURE AND HUMIDITY FOR		NEEDS COOLING TO SATISFY THE DISCHARGE SUPPLY AIR 55 DEGREE F (ADJUSTABLE)
SUPPLY AIR TEMPERATURE SETIONT.  B HEATING RECOVERY MODE DURING HEATING MODE THE WHEEL INLET SUMMUST TEMPERATURE. A HEAD SUPPLY TEMPERATURE AND THE UNIT MEET AND THE WHEEL INLET SUPPLY TEMPERATURE. AND THE UNIT MEET HEAD TO SUPPLY TEMPERATURE AND THE UNIT MEET HEAD TO SUPPLY TEMPERATURE STORY WHEEL WILL MONT THE DISCHARGE SUPPLY AIR S DEGREE F (ADJUSTABLE) THE MEET OWN THE DISCHARGE SUPPLY AIR S DEGREE F (ADJUSTABLE) THE INLET SUPPLY TEMPERATURE BOTONTI.  C ROST PROTECTION: WHEN THE VIEWELINE SUPPLY TEMPERATURE BOTONTI.  C ROST PROTECTION: WHEN THE WHEEL INLET SUPPLY TEMPERATURE BOTONS BLOW THE DEGREE F (ADJUSTABLE) OF THE WHEEL INLET SUPPLY TEMPERATURE BOTONS BLOW THE DEGREE F (ADJUSTABLE) TO THE UNIT S CHARGE SUPPLY AIR TEMPERATURE DOTONS BLOW THE DEGREE F (ADJUSTABLE) TO THE UNIT OF 90 DEGREE F (ADJUSTABLE), THE EMERGY RECOVERY VIEWEL OF 33 STATUS, THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTARL UNTIL POSITIVE STATUS IS RECEVED. D FRICTION: SUPPLY AND THE THE EMERGY RECOVERY WHEEL ANS DEEN STOPPED FOR 3 5 CALEANING AND BLOCKING: WHEN THE EMERGY RECOVERY WHEEL HAS DEEN STOPPED FOR 3 S CALEANING AND BLOCKING: WHEN THE EMERGY RECOVERY WHEEL HAS DESISTANT. STOPPED FOR 3 S CALEANING AND BLOCKING: WHEN THE EMERGY RECOVERY WHEEL HAS DESISTANT ON THE PROTECTION. SYSTEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY, EXHAUST AIR THE METRY RANS SHALL BO DISCHARGE AND FROTECTION. SYSTEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY, EXHAUST AIR, AND RELIVER FANS SHALL BE DISABLED. THE OUTDOOR AIR, EXHAUST AIR, AND RELIVER AND RELIVER HANS SHALL BO DISCHARGE SERDENCE. SHEREY WHEEL VED. THE DISCOVERY WHEEL VED. THE DISCOVERY WHEEL VED. THE DISCOVERY WHEEL VED. THE DISCOVERY WHEEL VED. SYSTEM ALAWANTIC DAMPERS FOSTIONS AND DAMPER END SWITCHES. S ENERGY WHEEL VED. THE AND RECENT AND SUPPLY AIN DAWNER END SWITCHES. S ENERGY WHEEL SINCE FRANCE AND AND AND RECENT AND SUPPLY AND RETURE AND DISCHARGE AIR, AND SUPPLY AND RETURE AND DISCHARGE AIR, AND SUPPLY AND RETURE AND DISCHARGE AIR, AND SUPPLY AND DESTING AND SUPPLY	SUPPLY AIR TEMPERATURE SETEORY." SUPPLY AIR TEMPERATURE SETEORY. HEATING RECOVERY MORE UNING HEATING MODE THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT REDS HEATING TO SURING HEATING MORE THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT TEMPERATURE SETEORY. THE DISCHARGE SUPPLY AIR TEMPERATURE SETHINT. REDS HEATING TO MAINTAIN THE DISCHARGE SUPPLY AIR TEMPERATURE OF PADJUSTABLE), ITE WHILL WILL MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AIR TEMPERATURE OF ROPES BELOW THE ENERGY RECOVERY LOW LINE SETTION. FROST PROTECTION. WHEN THE WHEEL INLET SUPPLY TEMPERATURE DROPS BELOW THE ENERGY RECOVERY LOW LINE SETTION OF 39 DEGREE F (ADJUSTABLE), THE ENERGY RECOVERY LOOP WILL CHANGE MODES TO MAINTAIN A MIMIMUM WHEEL OUTLET EMAINT AIR TEMPERATURE OF 39 DEGREE F (ADJUSTABLE), TO PREVENT FREZENC. UPON LINES SETTIONS. THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECOVERY LOUGH HEALT AND	SUPPLY AR TEMPERATURE SETEONT. HEATING RECOVERY MODE: DURING HEATING MODE THE WHEEL INLET SUPPLY TEMPERATURE IS DEGREE F (ADJUSTABLE) GREATER THAN THE WHEEL INLET SUPPLY TEMPERATURE, AND THE UNIT SUPPLY AND THE SUPPLY AND SET SOLECT EVALUATION THE WHEEL TEMPERATURE SETEONT. DURING HEATING MODE THE ENERGY RECOVERY WHEEL WILL MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AR THEMERATURE SETEONT. FROST PROTECTION. WHEN THE WHEEL INLET SUPPLY TEMPERATURE DROPS BELOW THE ENERGY RECOVERY LOW LIMIT SETEONT OF 30 DEGREE F (ADJUSTABLE). THE ENERGY RECOVERY WHEEL SUPPLY AR THE WHEEL INLET SKUPPLY TEMPERATURE DROPS BELOW THE ENROY RECOVERY LOW LIMIT SETEONT OF 30 DEGREE F (ADJUSTABLE). THE ENERGY RECOVERY WHEEL STATUS. THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEVED. DEGREE F (ADJUSTABLE) TO PREVENT FREEZING. UPON A LOSS OF ENERGY RECOVERY WHEEL STATUS. THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEVED. DEGREE F (ADJUSTABLE). TO PREVENT FREEZING. UPON A LOSS OF ENERGY RECOVERY WHEEL FURID BLOCKING PROTECTION. STEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF. THE SUPPLY, EXHAUST, AND RETURP FANS HALL BE DISABLED. THE OUTOOR AR EXHAUST ARK AND RELIEF DAMPERS SHALL CLOSE, THE ETURN DAMPER SHALL OPEN. THE HEATING AND COOLING SHALL BE DISABLED AND ENERGY WHEEL HALL BE DEGRER PORTECTION. THE SUPPLY AND RETURN FANS VFDS ENERGY WHEEL VFD. THE SUPPLY AND RETURN FANS VFDS ENERGY WHEEL VND. THE SUPPLY AND RETURN FANS VFDS ENERGY WHEEL SINLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AURTHEAMS. RETURN AN, OUTDOOR AND, RHALST AND AND HUMIDITY. FOR BOTH THE SUPPLY AND EXHAUST ANS ROTO SAFTERS. ENERGY WHEELS SINLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AND RETURN FANS VFDS. ENERGY WHEEL SINLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AND RETURN FANS VFDS. ENERGY WHEEL SINLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AND RETURN FAN		TEMPERATURE SETPOINT. DURING COOLING MODE THE ENERGY RECOVERY WHEEL WILL BE FULL SPEED SINCE THE EXHAUST AIR TEMPERATURE WILL ALWAYS BE GREATER THAN THE DISCHARGE
<ul> <li>THEATING RECUPENT MODE: DURING HEATING MODE THE WHEEL INLET SUPPLY ATMUST TEMPERATURE, AND THE UNIT NEEDS HEATING TO SATISFY THE DISCHARGE SUPPLY AIR S5 DEGREE F (ADJUSTABLE) TEMPERATURE SETFOINT. DURING HEATING MODE THE ENERGY RECOVERY WHEEL WILL MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AIR TEMPERATURE SETFOINT.</li> <li>CEROST PROTECTION: WHEEL INLET EXHAUST TEMPERATURE DROPS BELOW THE ENERGY RECOVERY UNEL SETFOINT OF 39 DEGREE F (ADJUSTABLE). THE ENERGY RECOVERY WHEEL STATUS, THE WHEEL INLET EXHAUST TEMPERATURE DROPS BELOW THE ENERGY RECOVERY LOW LIMIT SETFOINT OF 39 DEGREE F (ADJUSTABLE). THE ENERGY RECOVERY UNIEL STATUS, THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEVED.</li> <li>D. PERIODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL STATUS, THE WHEEL WILL BE ENERGY RECOVERY WHEEL STATUS, THE WHEEL WILL BE ENERGY RECOVERY WHEEL AS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE). IT NULL BE ENERGY RECOVERY WHEEL AS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE). THE UIL BE ENERGY RECOVERY WHEEL AS BEEN STOPPED FOR 3.5 TAYS ADJUSTABLE). THE OUTDOOR AIR, EXHAUST AIR, AND RELIEF DAMPERS SHALL CLOSE, THE RECEIVED.</li> <li>D. PERIODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL AS BEEN STOPPED FOR 3.5 THAL BE DISABLED. THE OUTDOOR AIR, EXHAUST AIR, AND RELIEF DAMPERS SHALL CLOSE, THE RETURN DAMPER SHALL OPEN, THE HEATING AND COOLING SHALL BE DISABLED AND ENERGY WHEEL SHALL BE DEFENDER SHALL MONITOR: A THE SUPPLY AND BETURN FANS VFDS.</li> <li>B. ENERGY WHEEL YAILS AND, MIXEMAL AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AND BETURN FANS VFDS.</li> <li>C. THE AUTONATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.</li> <li>C. THE AUTONATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.</li> <li>C. THE AUTONATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.</li> <li>C. THE AUTONATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.</li> <li>C. RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AND BETURN FANS VERS.</li> <li>D. RETHWELS INI</li></ul>	TEATING RECUYERY MODE: DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE, AND THE UNIT DEGREE F (JAUUSTABLE), GRAFTER THAN THE WHEEL INLET SUPPLY TARDERATURE, AND THE UNIT NEEDS HEATING TO SATISFY THE DISCHARGE SUPPLY AR 55 DEGREE F (JAUUSTABLE) TEMPERATURE SETPOINT. DURING HEATING MODE THE ENERGY RECOVERY WHEEL WILL MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AIR TEMPERATURE DROPS BELOW 15 DEGREE F (JAUUSTABLE) OR THE WHEEL INLET SUPPLY TEMPERATURE DROPS BELOW THE ENERGY RECOVERY LOW LIMIT SETPONTO TO 39 DEGREE F (JAUUSTABLE), THE ENERGY RECOVERY LOOP WILL CHANGE MODES TO MAINTAIN A MIMIMUM WHEEL OUTLET EXHAUST AIR TEMPERATURE OF 39 DEGREE F (JAUUSTABLE) TO PREVENT FREZENG. UPON A LOSS OF ENERGY RECOVERY UNCEL STATUS, THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEIVED. PERIODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (JAUUSTABLE), TO HILL BE ENERGIZED FOR 5 SECONDS (JAUUSTABLE) AT MINIMUM SPEED FOR JAS (JAUUSTABLE), TO HULB E ENERGIZED FOR 5 SECONDS (JAUUSTABLE), AT MINIMUM SPEED FOR CLEANING AND BLOCKING PROTECTION. STEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS ISTEM SHUTDOWN: WHEN AN UNIT IS COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS HALL BE DESABLED, THE UCTOOOR AIR, EXHAUST AIR, AND RELIEP DAMPERS SHALL CLOSE, THE ETURN DAMPER SHALL MONITOR: THE SUPPLY AND RETURN FANS VFOS. ENERGY WHEEL VFD. THE AUTOMATIC DAMPERS POSITIONS AND DAMPER END SWITCHES. RETURN IAM, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY. ENERGY WHEEL VFD. THE AUTOMATIC DAMPERS POSITIONS AND DAMPER END SWITCHES. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY. ENERGY WHEELS INLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRCENTRE. STEM SHALL WOTTOR: THE SUSPLY AIR HUMIDITY. ENERGY WHEELS INLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRCENTRE. STEM ALARMS AND SAFETIES: IF AT HIS MONTORY. THE DACE SYSTEM. STEM ALARMS AND SAFETIES: IF A FAN IS NO TORY RECTAINS ON THE AUTOMATI	TEATING RECUVERY MODE: DURING HEATING MODE THE WHEEL INLET EXHAUST TEMPERATURE, AND THE UNIT DEGREE F (ADUSTABLE) GRAFTER THAN THE WHEEL INLET SUPPLY TARES DECREE F (ADUSTABLE) TEMPERATURE SETPOINT. DURING HEATING MODE THE ENERGY RECOVERY WHEEL WILL MODULATE TO MAINTAIN THE DISCHARGE SUPPLY AIR TEMPERATURE SETPOINT. FROST PROTECTION: WHEN THE WHEEL INLET SUPPLY TEMPERATURE DROPS BELOW 15 DEGREE F (ADUSTABLE) OR THE WHEEL INLET SUPPLY TEMPERATURE DROPS BELOW THE ENERGY RECOVERY LOW LIMT SETPOINT OF 39 DEGREE F (ADUSTABLE). THE ENERGY RECOVERY LOOP WILL CHANGE MODES TO MAINTAIN A MIMIMUM WHEEL OUTLET EXHAUST AIR TEMPERATURE OF 79 DEGREE F (ADUSTABLE) TO PREVENT FREZENG. 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WILL CHANGE MODES TO MAINTAIN A MINIMUM WHEEL OUTLET EXHAUST AR TEMPERATURE OF 39 DEGREE F (ADJUSTABLE) TO PREVENT FREEZING. UPON A LOSS OF ENERGY RECOVERY WHEEL STATUS, THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTL POSITIVE STATUS IS RECEIVED. D. PERIODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE), IT WILL BE ENERGIZED FOR 5 SECONDS (ADJUSTABLE) AT MINIMUM SPEED FOR CLEANING AND BLOCKING PROTECTION. SYSTEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS SHALL BE DISABLED, THE OUTDOOR ARE, EXHAUST AIR, AND RELIPE DAMPERS SHALL CLOSE, THE RETURN DAMPER SHALL OPEN, THE HEATING AND COOLING SHALL BE DISABLED AND ENERGY WHEEL SHALL BE DE-ENERGIZED. THE DDC SYSTEM SHALL MONITOR: A. THE SUPPLY AND RETURN FANS VFDS. B ENERGY WHEEL VFD. C. THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES. D. RETURN AIR, OUTDOOR AIR, MXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. E. RETURN, AIR, OUTDOOR, AIR, AND SUPPLY AIR HUMIDITY. F. ENERGY WHEEL SINLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS. G. RETURN, OUTDOOR, SUPPLY, AIR HANTING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. H. FLYNSTRE BORD ACROSS ALL FILTER SECTIONS. SYSTEM ALARMS AND SAFETIES: AIF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQURED ALARM THE DDC SYSTEM. B. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM. C.DUCT SMOKE DETECTOR, SHOLL BE HARDWIKED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEENGED STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM MODIDITY LEVEN TOS SYSTEM. ALARM GENERATED. UNIT SHALL REQUINE A MANUAL RESET. D. HIGH. 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STEM SHUTDOWN: WHEN A UNTI'S COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS ALL BE DISABLED, THE OUTDOOR AIR, EXHAUST AIR, AND RELIEF DAMPERS SHALL CLOSE, THE ETURN DAMPER SHALL OPEN, THE HEATING AND COOLING SHALL BE DISABLED AND ENERGY WHEEL HALL BE DESCREPT TO STITUDOR THE HEATING AND COOLING SHALL BE DISABLED AND ENERGY WHEEL HEALL DAMPER SHALL MONITOR: THE SUPPLY AND RETURN FANS VEDS. ENERGY WHEEL VFD. THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES. RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY. ENERGY WHEEL SILLET AND DISCHARGE TEMPERATURE AND HUMIDITIY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS. RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS. PRESSURE DOPA CAROSS ALL FILTER SECTIONS. 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PERIODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE), IT WILL BE ENERGIZED FOR 5 SECONDS (ADJUSTABLE) AT MINIMUM SPEED FOR CLEANING AND BLOCKING PROTECTION. YSTEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS HALL BE DISABLED, THE OUTDOOR AIR, EXHAUST AIR, AND RELIEF DAMPERS SHALL CLOSE, THE ETURN DAMPER SHALL OPEN, THE HEATING AND COOLING SHALL BE DISABLED AND ENERGY WHEEL HALL BE DESENDED. THE SUPPLY AND RETURN FANS YFDS. ENERGY WHEEL YHD THE SUPPLY AND RETURN FANS YFDS. ENERGY WHEEL YND THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES. RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. RETURN, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY. 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RETURN AIR, OUTDOOR AIR, MEXA DIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. E. RETURN AIR, OUTDOOR AIR, MAD SUPPLY AIR HUMDITY. F. ENERGY WHEEL 'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS. G.RETURN, OUTDOOR, SUPPLY, AIR DEXHAUST AIRFLOWS VIA AIRFLOW MONITORS. H. PRESSURE DACOROSS ALL FILTER SECTIONS. SYSTEM ALAMS AND SAFETIES: A.IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM. C. DUCT SMOKE DETECTOR: THE OUCT STATIC PRESSURE FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM. B. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM. C. DUCT SMOKE DETECTOR: THE OUCT STATIC PRESSURE EXCEEDS 4" W G (ADJUSTABLE), OR THE EUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET. J. HICH HUMDY STATE DRESSURE: ISTATIC PRESSURE EXCEEDS 4" W G (ADJUSTABLE), OR THE EUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET. J. HICH HUMDY STATE DRESSU	JEGNERE F (MJJUSI JRALE) 10 YHEVENI FHEEZING. UPON ALOSS OF EMERGY RECOVERY WHEEL STATUS, THE WHEEL WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEIVED. PERIODIC SELF CLEANING: WHEN THE ENERGY RECOVERY WHEEL HAS BEEN STOPPED FOR 3.5 DAYS (ADJUSTABLE), IT WILL BE ENERGIZED FOR 5 SECONDS (ADJUSTABLE) AT MINIMUM SPEED FOR CLEANING AND BLOCKING PROTECTION. YSTEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS HALL BE DISABLED, IT WILL BE ENERGIZED FOR 5 SECONDS (ADJUSTABLE), IT WILL BE ENERGIZED FOR LEANING AND BLOCKING PROTECTION. YSTEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY, EXHAUST, AND RETURN FANS HALL BE DISABLED, THE OLTDOOR AIR, EXHAUST AIR, AND RELIEF DAMPERS SHALL CLOSE, THE ETURN DAMPER SHALL OPEN, THE HEATING AND COOLING SHALL BE DISABLED AND ENERGY WHEEL HALL BE DE ENERGIZED. THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES. RETURN AIM, OUTDOOR AIR, AND SUPPLY AIR HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. RETURN AUTODOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS. PRESSURE DOOP AIR, AND SUPPLY AIR HUMDITY. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITIY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS. RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS. PRESSURE DROP ACROSS ALL FILTER SECTIONS. VSTEM ALARMS AND SAFETIES: IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED. ALARM THE DDC SYSTEM. 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GRETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS. H. PRESSURE DROP ACROSS ALL FILTER SECTIONS. SYSTEM ALARMS AND SAFETIES: ALIF AFANI SIOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM. B. IF THE ENRGY RECOVERY WHEEL FILS TO SUPPLY AIR DEVENTION. SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTOR. THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REDUIRE A MANUAL RESET. D. HIGHLOWS TATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G (ADJUSTABLE). ON THE HE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G (ADJUSTABLE). ON THE ALL REPUTY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SECTIONS CONTRACTOR TO RELOW IN SA SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REDUIRE A MANUAL RESET. D. 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<ul> <li>United DE DE-Energy WHEEL VFD.</li> <li>THE DDC SYSTEM SHALL MONITOR:</li> <li>A THE SUPPLY AND RETURN FANS VFDS.</li> <li>B ENERGY WHEEL VFD.</li> <li>C THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.</li> <li>D. RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE.</li> <li>E RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY.</li> <li>F. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS.</li> <li>G.RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS.</li> <li>H. PRESSURE DROP ACOSS ALL FILTER SECTIONS.</li> <li>SYSTEM ALARMS AND SAFETIES:</li> <li>AIF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DC SYSTEM.</li> <li>B. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM.</li> <li>B. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM.</li> <li>B. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM.</li> <li>B. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM.</li> <li>B. IF THE ENERGY RECOVERY WHEEL FAILS TO A DETECTOR SHALL BE HARDWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESST.</li> <li>D. HIGHALOW STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE ETTERN ALARM SAID AN ALARM SAID AN ALARM SAIDE, OXIGA AND ALARM MELD A HIGH PRESSURE SWITCH SHALL TRIP THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE) ON THE EST AND ALARM MELD ALTRIP THE SUPPLY AND RETURN FANS AND AN ALARM MELD A HIGH PRESSURE SWITCH SHALL TRIP THE SUPPLY AND RETURN FANS AND AN ALARM MELD A HIGH PRESSURE SWITCH SHALL TRIP THE SUPPLY AND RETURN FANS AND AN ALARM MELD ALTRIP THE AS. 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<ul> <li>C. THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.</li> <li>D. RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE.</li> <li>E. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY.</li> <li>F. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITIY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS.</li> <li>G.RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS.</li> <li>H. PRESSURE DROP ACROSS ALL FILTER SECTIONS.</li> <li>SYSTEM ALARMS AND SAFETIES:</li> <li>AIF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DUC SYSTEM.</li> <li>C.DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HARDWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET.</li> <li>D. HIGH/LOW STATIC PRESSURE: IF THE SUPPLY AIN DELY STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 1" W.G. (ADJUSTABLE) A HIGP PRESSURE SWITCH SHALL TRP THE SUPPLY AIR NUCE STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 1" W.G. (ADJUSTABLE) OR THERY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING.</li> <li>F. HIGH HUMIDITY, LLARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER.</li> <li>G.CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A ONDENA</li></ul>	LINE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES. RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITIY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS. RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS. PRESSURE DROP ACROSS ALL FILTER SECTIONS. YSTEM ALARMS AND SAFETIES: IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM. DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HARDWIRED TO STOP THE AHD SUPPLY AND RETURN FANS ON AN ALARM CONDITION. 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(ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS AT HE HANUFACTURER'S RECOMMENDATIONS FOR DIRTY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS. CONTRACTOR TO FIELD VERFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING. HIGH HUMIDITY: ALARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH HUMIDITY	1	A.THE SUPPLY AND RETURN FANS VFDS.
<ul> <li>D. RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE.</li> <li>E. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY.</li> <li>F. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITIY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS.</li> <li>G.RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS.</li> <li>H. PRESSURE DROP ACROSS ALL FILTER SECTIONS.</li> <li>SYSTEM ALARMS AND SAFETIES:</li> <li>A.IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM.</li> <li>B. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM.</li> <li>C.DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HARDWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET.</li> <li>D. HIGH/LOW STATIC PRESSURE: IF THE SUPPLY AIN DECT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUPLY AIN DECENCE TONE THE FILTER MANUFACTURER'S RECOMMENDATIONS FOR DIRTY FILTERS; WHANUFACTURER'S RECOMMENDED TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING.</li> <li>F. HIGH HUMIDITY: LARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER.</li> <li>G.CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH HIMT IS DETECTED, ALARM THE DDC SYSTEM AND DISABLE COOLING.</li> <li>F. HIGH HUMITTS DETECTED, AL</li></ul>	RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS. RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS. PRESSURE DROP ACROSS ALL FILTER SECTIONS. YSTEM ALARMS AND SAFETIES: IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM. DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HARDWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET. HIGHLOW STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS -3" W.G. (ADJUSTABLE) A HIGH PRESSURE SWITCH SHALL TRIP THE SUPPLY AND RETURN FANS AND AN ALARM GENERATED. DIRTY FILTERS: WHEN THE DIFFERNITIAL PRESSURE EXCEEDS -4" HIGH. PRESSURE SWITCH SHALL TRIP THE SUPPLY AND RETURN FANS AND AN ALARM GENERATED. DIRTY FILTERS: WHEN THE DIFFERSING AN ALARM SHALL BE GENERATED. THROUGH THE BAS. CONTRACTOR TO FILD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING. HIGH HUMIDITY: ALARM THE BAS IT HE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH HUMIDITY: ALARM THE BAS IT HE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH LIMIT IS DETECTED, ALARM THE DDC SYSTEM AND DISABLE COOLING. OUTDOOR AIR DELIVERY MONITORING: PROVIDE A ONDE A CONDENSATE DRAIN PAN FLOAT OR H	RETURN AIR, OUTDOOR AIR, MIXED AIR, HEATING DISCHARGE AIR, COOLING DISCHARGE AIR, AND SUPPLY AIR TEMPERATURE. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITIY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS. RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS. PRESSURE DROP ACROSS ALL FILTER SECTIONS. YSTEM ALARMS AND SAFETIES: IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM. 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HIGH LUMITY: ALARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH LIMIT IS DETECTED, ALARM THE DDC SYSTEM AND DISABLE COOLING. OUTDOOR AIR DELIVERY MONITORING: PROVIDE A DIRECT OUTDOOR AIR MEASUREMENT DEVICE CAPABLE OF MEASURING THO OUTDOOR AIR FLOW.		C.THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.
<ul> <li>SUFFLT AIR VIEWERATURE.</li> <li>RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY.</li> <li>F. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS.</li> <li>GRETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS.</li> <li>H. PRESSURE DROP ACROSS ALL FILTER SECTIONS.</li> <li>SYSTEM ALARMS AND SAFETIES:</li> <li>AIF A FAN, IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM.</li> <li>B. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM.</li> <li>C.DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HAROWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET.</li> <li>D. HIGHALOW STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), A HIE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), A HIE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE) OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE) OR THE DIFFERENTIAL PRESSURE EXCEEDS THE FILTER MANUFACTURER'S RECOMMENDATIONS FOR DIRTY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS. CONTRACTOR TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING.</li> <li>F. HIGH HUMIDITY: ALARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER.</li> <li>G.CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH LIMIT IS DETECTED, ALARM THE DDC</li></ul>	SUFFLIT AIR TEMPERATURE. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS. RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS. PRESSURE DROP ACROSS ALL FILTER SECTIONS. YSTEM ALARMS AND SAFETIES: IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM. DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HARDWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. 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CONTRACTOR TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING. HIGH HUMIDITY: ALARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH HUMIDITY: ALARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR AIR DELOVER TO RIVE DECOTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH HUMID	SUFFLITAIR TEMPERATURE. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS. RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS. .PRESSURE DROP ACROSS ALL FILTER SECTIONS. YSTEM ALARMS AND SAFETIES: IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM. 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<ul> <li>F. ENERGY WHEEL'S INLET AND DISCHARGE TEMPERATURE AND HUMIDITY FOR BOTH THE SUPPLY AND EXHAUST AIRSTREAMS.</li> <li>G.RETURN, OUTDOOR, SUPPLY, AND EXHAUST AIRFLOWS VIA AIRFLOW MONITORS.</li> <li>H. PRESSURE DROP ACROSS ALL FILTER SECTIONS.</li> <li>SYSTEM ALARMS AND SAFETIES:</li> <li>AIF AF FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE DDC SYSTEM.</li> <li>B. IF THE ENERGY RECOVERY WHEEL FAILS TO OPERATE, ALARM THE DDC SYSTEM.</li> <li>C.DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HARDWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET.</li> <li>D. HIGHALOW STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. 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HIGHLOW STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W G (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W G (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W G (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W G (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W G (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" W G (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" B (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4" G (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 5.5" W G (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 4.5" W G (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS 5.5" W G (ADJUSTABLE), OR DIRTY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS. CONTRACTOR TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING. 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SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR DIRY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH LIMIT IS DETECTED, ALARM THE DAS CENTRAL MONITORING STATION IF THE OUTDOOR AIR CFM DROPS 10% BELOW THE DESIGN VALUE		E. RETURN AIR, OUTDOOR AIR, AND SUPPLY AIR HUMIDITY.
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<ul> <li>C. DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HARDWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET.</li> <li>D. HIGH/LOW STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS -3" W.G. (ADJUSTABLE) A HIGP PRESSURE SWITCH SHALL TRIP THE SUPPLY AND RETURN FANS AND AN ALARM GENERATED.</li> <li>E. DIRTY FILTERS: WHEN THE DIFFERENTIAL PRESSURE EXCEEDS THE FILTER MANUFACTURER'S RECOMMENDATIONS FOR DIRTY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS. CONTRACTOR TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING.</li> <li>F. HIGH HUMIDITY: ALARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER.</li> <li>G.CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH LIMIT IS DETECTED, ALARM THE DDC SYSTEM AND DISABLE COOLING.</li> <li>H. OUTDOOR AIR DELIVERY MONITORING: PROVIDE A DIRECT OUTDOOR AIR MEASUREMENT DEVICE CAPABLE OF MEASURING THE OUTDOOR AIR FLOW. ALARM THE BAS CENTRAL MONITORING STATION IF THE OUTDOOR AIR CFM DROPS 10% BELOW THE DESIGN VALUE</li> </ul>	THE LINE TO RECOVERT WHILE FAILS TO OFERATE, ALARM THE DUC STSTEM. DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HARDWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET. HIGH/LOW STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS -3" W.G. (ADJUSTABLE) A HIGH PRESSURE SWITCH SHALL TRIP THE SUPPLY AND RETURN FANS AND AN ALARM GENERATED. DIRTY FILTERS: WHEN THE DIFFERENTIAL PRESSURE EXCEEDS THE FILTER MANUFACTURER'S RECOMMENDATIONS FOR DIRTY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS. CONTRACTOR TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING. HIGH HUMIDITY: ALARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH LIMIT IS DETECTED, ALARM THE DDC SYSTEM AND DISABLE COOLING. OUTDOOR AIR DELIVERY MONITORING: PROVIDE A DIRECT OUTDOOR AIR MEASUREMENT DEVICE CAPABLE OF MEASURING THE OUTDOOR AIR FLOW. ALARM THE BAS CENTRAL MONITORING STATION IF THE OUTDOOR AIR CFM DROPS 10% BELOW THE DESIGN VALUE	DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTOR SHALL BE HARDWIRED TO STOP THE AHU SUPPLY AND RETURN FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET. HIGHLOW STATIC PRESSURE: IF THE SUPPLY AND RUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE RETURN AIR DUCT STATIC PRESSURE EXCEEDS -3" W.G. (ADJUSTABLE) A HIGP PRESSURE SWITCH SHALL TRIP THE SUPPLY AND RETURN FANS AND AN ALARM GENERATED. DIRTY FILTERS: WHEN THE DIFFERENTIAL PRESSURE EXCEEDS THE FILTER MANUFACTURER'S RECOMMENDATIONS FOR DIRTY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS. CONTRACTOR TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING. HIGH HUMIDITY: ALARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR HIGHER. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH LIMIT IS DETECTED, ALARM THE DDC SYSTEM AND DISABLE COOLING. OUTDOOR AIR DELIVERY MONITORING: PROVIDE A DIRECT OUTDOOR AIR MEASUREMENT DEVICE CAPABLE OF MEASURING THE OUTDOOR AIR FLOW. ALARM THE BAS CENTRAL MONITORING STATION IF THE OUTDOOR AIR CFM DROPS 10% BELOW THE DESIGN VALUE		WHEN REQUIRED, ALARM THE DDC SYSTEM.
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				H. OUTDOOR AIR DELIVERY MONITORING: PROVIDE A DIRECT OUTDOOR AIR MEASUREMENT DEVICE CAPABLE OF MEASURING THE OUTDOOR AIR FLOW. ALARM THE BAS CENTRAL MONITORING STATION IF THE OUTDOOR AIR CFM DROPS 10% BELOW THE DESIGN VALUE
				H. OUTDOOR AIR DELIVERY MONITORING: PROVIDE A DIRECT OUTDOOR AIR MEASUREMENT DEVICE CAPABLE OF MEASURING THE OUTDOOR AIR FLOW. ALARM THE BAS CENTRAL MONITORING STATION IF THE OUTDOOR AIR CFM DROPS 10% BELOW THE DESIGN VALUE

![](_page_154_Figure_1.jpeg)

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![](_page_154_Picture_6.jpeg)

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SHEET NUMBER

MECHANICAL SEQUENCE OF **OPERATIONS/CONTROLS** 

SHEET TITLE

60590790

PROJECT NUMBER

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**ISSUE/REVISION** 

## 11/15/19

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PROJECT MARSHALL UNIVERSITY BASEBALL STADIUM

AECOM

_	6	5	1
22"x34"	DEDI	CATED OUTDOOR AIR UNITS (DOAS) SINGLE ZONE FITOUT (VAV)	AIR HANDLING UNIT (100% OUTDOOR AIR C
NSID	4.0	THESE DOAS ARE CONSTANT AIR VOLUME UNITS. THE UNITS HAVE A DRAW THROUGH CONFIGURATION AND CONSIST OF A SUPPLY FAN, EXHAUST FAN, ENERGY RECOVERY CORE, FILTERS, NATURAL GAS BURNER, DIRECT EXPANSION COOLING COIL, OUTSIDE AIR DAMPER, EXHAUST AIR DAMPER, AND AIR FLOW MEASURING	1. AHU IS A CONSTANT AIR VOLUME UP A SUPPLY FAN, EXHAUST FAN, FILTE AIR DAMPER, EXHAUST AIR DAMPER
over A	2.	DEVICES. THIS SEQUENCE OF OPERATION APPLIES TO THE FOLLOWING UNITS: A. DOAS1	SUPPLY FAN VFD AND EXHAUST FAN THE VFD SHALL BE LOCKED AT THA 2. THIS SEQUENCE OF OPERATION AP
: Appro	3.	SYSTEM OPERATION: THE DOAS SHALL OPERATE BASED ON AN OCCUPIED/UNOCCUPIED TIME OF DAY SCHEDULE WITH MANUAL OVERRIDE THROUGH THE BAS TO PLACE A UNIT IN OCCUPIED MODE. AT THE	A. AHU2 3. SYSTEM OPERATION: THE AHU SHA
proved;	4.	SCHEDULE. COORDINATE LOCATION OF MANUAL OVERRIDES WITH OWNER. SYSTEM START UP/DOAS OCCUPIED MODE: DURING THE OCCUPIED MODE, THE UNIT SHALL OPERATE TO	BAS TO PLACE UNIT IN OCCUPIED M SHALL AUTOMATICALLY RETURN TO
Apt		MAINTAIN THE OCCUPIED SETPOINTS OF 74°F IN COOLING (ADJ.) AND 68°F IN HEATING (ADJ.) WHEN THE DOAS IS ENABLED TO START, THE UNIT'S EXHAUST AND OUTDOOR AIR DAMPERS SHALL OPEN. ONCE THE DAMPERS ARE IN THE CORRECT POSITION AS DETERMINED BY DAMPER END SWITCHES. THE SUPPLY AND EXHAUST	OWNER. 4. SYSTEM START UP/AHU OCCUPIED I MAINTAIN THE OCCUPIED SETPOINT
OſZ		FANS SHALL START. THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE NORMALLY CLOSED. AN AIRFLOW MEASURING STATION SHALL MEASURE THE AMOUNT OF OUTSIDE AND EXHAUST AIR.	HEATING (ADJUSTABLE). WHEN THE DAMPERS SHALL OPEN. ONCE THE
lecked:	. 5.	SCHEDULED OCCUPIED TIME, VIA AN ADAPTIVE OPTIMAL START SEQUENCE. THE ADAPTIVE OPTIMAL START SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT	SHALL BE NORMALLY CLOSED. AN A AND EXHAUST AIR.
<sup>ਨ</sup> D		CONDITIONS BY THE START OF SCHEDULE OCCUPIED PERIOD. THE UNIT SHALL ENTER A MORNING WARM UP / COOL DOWN MODE IF NECESSARY BASED ON SPACE TEMPERATURE. SHOULD THE SPACE TEMPERATURES NOT REACH THE OCCUPIED SETPOINT BEFORE THE SCHEDULED OCCUPIED TIME. OR REACH SETPOINT TOO	<ol> <li>MORNING WARM UP / COOL DOWN: SCHEDULED OCCUPIED TIME, VIA AI SHALL MINIMIZE THE UNOCCUPIED V</li> </ol>
CRW	6.	EARLY, THE ADAPTIVE OPTIMAL START SEQUENCE SHALL AUTOMATICALLY ADJUST FOR SUBSEQUENT STARTS. NIGHT SETBACK / DOAS UNOCCUPIED MODE: THE BAS SHALL SHUTDOWN THE DOAS USING THE SYSTEM	CONDITIONS BY THE START OF SCH / COOL DOWN MODE IF NECESSARY
igner:		(ADJUSTABLE) SETPOINT OR ABOVE THE UNOCCUPIED COOLING 85°F (ADJUSTABLE) SETPOINT, THE DOAS SHALL BE ENABLED. THE DOAS SHALL CONTINUE TO OPERATE A MINIMUM OF 5 MINUTES (ADJUSTABLE) AFTER	TEMPERATURES NOT REACH THE O SETPOINT TOO EARLY, THE ADAPTIN
Des		SATISFACTION OF THE UNOCCUPIED SPACE TEMPERATURE SETPOINT. THE SUPPLY AND EXHAUST FAN'S AIRFLOW SHALL BE SYNCED. THIS MODE SHALL BE ABLE TO BE INITIATED/SCHEDULED BY THE OWNER FOR ALL DOASS THROUGH THE BAS FRONT END.	SUBSEQUENT STARTS. 6. NIGHT SETBACK / AHU UNOCCUPIED SHUTDOWN SEQUENCE. IF ANY SPA
	7.	SUPPLY FAN CONTROL: THE SUPPLY FANS SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FANS SHALL HAVE AN ADJUSTABLE	F (ADJUSTABLE) SETPOINT OR ABOV AHU SHALL BE ENABLED. THE AHU
ials:		LOCATIONS ABOUT 2/3 THE LENGTH OF THE SUPPLY DUCT SHALL VARY THE SUPPLY FAN SPEED TO MAINTAIN DUCT STATIC PRESSURE AT A CONSTANT LEVEL OF 1.0" W.G. (ADJUSTABLE). THE ADJUSTABLE STATIC	FAN'S AIRFLOW SHALL BE SYNCED. THROUGH THE BAS FRONT END.
ent Init		PRESSURE SETPOINT SHALL BE MODIFIED AS NECESSARY BY THE BALANCING CONTRACTOR, CONTROL CONTRACTOR, AND COMMISSIONING AGENT DURING THE CONSTRUCTION, START UP, AND VERIFICATION PROCESS BAS/DDC SHALL ENABLE THE SUPPLY FAN ECM CONTROL FR AND PROVIDE THE SPEED SIGNAL	7. SUPPLY FAN CONTROL: THE SUPPL SHUTDOWN ON SAFETIES. TO PREV MINIMUM RUNTIME. THE SUPPLY FA
nagem		THROUGH BACNET. THE ECM CONTROLLER PROVIDES THE STAGING TO EACH ECM FAN. EACH INDIVIDUAL SUPPLY FAN SHALL BE MONITORED FOR FAILURE, STATUS, START/STOP, RUNTIME, AND HAND POSITION.	OPERATE AT A CONSTANT SPEED SI 8. EXHAUST FAN CONTROL: THE EXHA
ect Ma	8.	FAN ARRAY KW USAGE SHALL BE MONITORED THROUGH THE BAS. EXHAUST FAN CONTROL: THE EXHAUST FANS SHALL BE INTERLOCKED IN UNISON WITH THE SUPPLY FANS	CYCLING, THE EXHAUST FAN SHALL WITH A FACTORY MOUNTED VFD. TI
Proj		AND RUN ANYTIME THE UNIT IS COMMANDED TO RUN UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE EXHAUST FANS SHALL HAVE AN ADJUSTABLE MINIMUM RUNTIME. REMOTE STATIC PRESSURE TRANSMITTERS LOCATED IN FACH MAIN EXHAUST AIR DUCT AT LOCATIONS ABOUT 2/3 THE LENGTH OF THE	(ADJUSTABLE) DURING OPERATION. 9. COOLING CONTROL: COOLING SHAI AIR TEMPERATURE IS GREATER THA
		SUPPLY DUCT SHALL VARY THE EXHAUST FAN SPEED TO MAINTAIN DUCT STATIC PRESSURE AT A CONSTANT LEVEL OF 1.0" W.G. (ADJUSTABLE). THE ADJUSTABLE STATIC PRESSURE SETPOINT SHALL BE MODIFIED AS	THE UNIT CONTROLLER SHALL MOD HOT GAS REHEAT TO MAINTAIN DISC
		THE CONSTRUCTION, START UP, AND VERIFICATION PROCESS. BAS/DDC SHALL ENABLE THE EXHAUST FAN ECM CONTROLLER AND PROVIDE THE SPEED SIGNAL THROUGH BACNET. THE ECM CONTROLLER PROVIDES	10. HEATING CONTROL: NATURAL GAS MODULATING CONTROL. HEATING C
		THE STAGING TO EACH ECM FAN. EACH INDIVIDUAL EXHAUST FAN SHALL BE MONITORED FOR FAILURE, STATUS, START/STOP, RUNTIME, AND HAND POSITION. CONTINUOUS AIRFLOW MEASURING FOR EACH INDIVIDUAL FAN, TOTAL EXHAUST AIRFLOW. AND TOTAL EXHAUST FAN ARRAY KW USAGE SHALL BE	OR THE OUTSIDE AIR TEMPERATURE NATURAL GAS BURNER TO MAINTAIN SHALL PROHIBIT THE UNIT FROM SU
	9.	MONITORED THROUGH THE BAS. COOLING CONTROL: COOLING SHALL BE ENABLED WHENEVER DEHUMIDIFICATION IS REQUIRED OR OUTSIDE AIR TEMPERATURE IS OPEATED THAN 50°E (AD L) AND SUPPLY FAMILY THE IS ONLONG IN COMPLEX.	11. DEHUMIDIFICATION MODE: THE CON COOLING SEQUENCE TO MAINTAIN S
		THE UNIT CONTROLLER SHALL MODULATE THE COMPRESSORS, CONDENSER FANS AND EXPANSION VALVE TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT 54°F (ADJ.). THE CONTROLS SHALL PROHIBIT THE UNIT	SETPOINT OF 1°F (ADJ.) LESS THAN AND THE UNIT IS IN SUPPLY TEMPER
	10.	FROM SIMULTANEOUSLY COOLING AND HEATING. HEATING CONTROL: NATURAL GAS BURNER SHALL BE HARDWIRED FOR ENABLE/DISABLE, STATUS, AND MODULATING CONTROL. HEATING CONTROL SHALL BE ENABLED WHENEVER DEHUMIDIFICATION IS REQUIRED	RESET DOWN TO 53°F. DEHUMIDIFIC SPACE HUMIDITY EXCEEDS 60% RH UNTIL THE SPACE HUMIDITY DROPS
		OR THE OUTSIDE AIR TEMPERATURE IS BELOW 60°F (ADJ.), AND SUPPLY FAN STATUS IS ON. MODULATE THE NATURAL GAS BURNER TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT OF 68°F (ADJ). THE CONTROLS	12. SUPPLY TEMPERATURE RESET: THE INCREMENTALLY INCREASED BETWI AND TEMPERATURE DESET SHALL BE
С	12.	DEHUMIDIFICATION MODE: THE CONTROLLER SHALL MEASURE THE SPACE AIR HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN SPACE AIR HUMIDITY AT OR BELOW 60% RH (ADJ.) FOR THE AREA SERVED	BURNER. SUPPLY AIR TEMPERATUR DEHUMIDIFICATION IS ENABLED.
		BY THE UNIT. DURING DEHUMIDIFICATION, THE HOT GAS HEATING SHALL BE MODULATED TO MAINTAIN A SETPOINT OF 1°F (ADJ.) LESS THAN THE ZONE COOLING SETPOINT. IF DEHUMIDIFICATION MODE IS ENABLED AND THE UNIT IS IN SUPPLY TEMPERATURE RESET MODE, THE DISCHARGE AIR TEMPERATURE SHALL BE	<ol> <li>SYSTEM SHUTDOWN: WHEN A UNIT OUTDOOR AIR DAMPER SHALL CLOS 100% CLOSED, AND THE HUMIDIFIER</li> </ol>
		RESET DOWN TO 53°F. DEHUMIDIFICATION SHALL BE ENABLED WHENEVER THE SUPPLY FAN STATUS IS ON AND SPACE HUMIDITY EXCEEDS 60% RH (ADJ.) FOR 5 MINUTES (ADJ.). DEHUMIDIFICATION SHALL REMAIN ACTIVE UNTIL THE SPACE HUMIDITY DROPS BELOW A 10% PH DEADBAND (AD L).	14. THE BAS SHALL MONITOR: A. COOLING STATUS.
	12.	SUPPLY TEMPERATURE RESET: THE COOLING DISCHARGE AIR SETPOINT SHALL BE CAPABLE OF BEING RESET INCREMENTALLY INCREASED BETWEEN 55°F TO 65°F (ADJ.) PRIOR TO ENTERING THE HEATING MODE. SUPPLY	C. THE SUPPLY AND EXHAUST FAN D. THE AUTOMATIC DAMPER'S POS
		AIR TEMPERATURE RESET SHALL BE THE FIRST STAGE OF HEATING PRIOR TO ENABLING THE NATURAL GAS BURNER. SUPPLY AIR TEMPERATURE RESET SHALL BE OVERRIDDEN VIA A CALL FOR COOLING OR DEHUMIDIFICATION IS ENABLED.	E. OUTDOOR AIR, SUPPLY AIR, AND F. OUTDOOR AIR, SUPPLY AIR, AND G. EXHAUST AND SUPPLY AIRFLOW
	13.	SYSTEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY AND EXHAUST FANS SHALL BE DISABLED, THE OUTDOOR AIR AND EXHAUST DAMPERS SHALL CLOSE, AND THE HEATING SHALL BE DISABLED AND COOLING SHALL BE 100% OFF	H. PRESSURE DROP ACROSS ALL F I. ALL ALARMS FROM MANUFACTU 15 SYSTEM ALARMS AND SAFETIES
	14.	AHU SHALL HAVE A MANUAL SHUTDOWN / AUTO MODE SWITCH AT THE DDC CONTROL PANEL. THE MANUAL SHUTDOWN MODE SHALL SHUTDOWN THE UNIT FOR A MAINTENANCE SHUTDOWN AND FOLLOW THE SYSTEM	A. IF A FAN IS NOT SENSED TO BE O REQUIRED, ALARM THE BAS.
		CONTROL PANEL, THE UNIT SHALL RETURN TO NORMAL OPERATION OF THE OCCUPIED/UNOCCUPIED TIME OF DAY SCHEDULE AND FOLLOW THE STARTUP SEQUENCE.	B. HIGH/LOW STATIC PRESSURE: II (ADJUSTABLE), OR THE EXHAUS PRESSURE SWITCH SHALL TRIP
	15.	THE BAS SHALL MONITOR: B. SUPPLY AND EXHAUST FAN STATUS. C. COOLING STATUS	C. DIRTY FILTERS: WHEN THE DIFF RECOMMENDATIONS FOR DIRTY CONTRACTOR TO FIELD VERIEY
		D. HEATING STATUS. E. THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.	F. HIGH HUMIDITY: ALARM THE BA HIGHER.
		F. EXHAUST AIR, OUTDOOR AIR, MIXED AIR, TEMPERATURES UPSTREAM/DOWNSTREAM OF THE HEAT EXCHANGERS, HEATING DISCHARGE AIR, COOLING COIL DISCHARGE AIR, SUPPLY AIR, AND SPACE TEMPERATURES. MIXED AIR TEMPERATURE SENSOR SHALL BE AVERAGING TYPE.	G. CONDENSATE DRAIN PAN OVER LIMIT WATER SENSOR TO PREVE IF HIGH LIMIT IS DETECTED, ALAI
		G. EXHAUST AIR, OUTDOOR AIR, SUPPLY AIR, AND SPACE HUMIDITY. H. EXHAUST, OUTDOOR, AND SUPPLY AIRFLOWS VIA AIRFLOW MONITORS.	H. OUTDOOR AIR DELIVERY MONIT OF MEASURING THE OUTDOOR A
	17.	SYSTEM ALARMS AND SAFETIES: A. IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN	J. HIGH/LOW REFRIGERANT PRESS WILL SHUT DOWN UNTIL REFRIG
		B. DUCT SMOKE DETECTOR: THE DUCT SMOKE DETECTORS SHALL BE HARDWIRED TO STOP THE DOAS SUPPLY AND EXHAUST FANS ON AN ALARM CONDITION. IN THE EVENT OF SMOKE BEING DETECTED, THE	WILL SEND AN ALARM. IN THE C DOWN REQUIRING A MANUAL RE K. BAS FAILURE: IF COMMUNICATIO
		UNIT SHALL BE SHUTDOWN AS SPECIFIED IN THE SYSTEM SHUTDOWN SEQUENCE AND AN ALARM GENERATED. UNIT SHALL REQUIRE A MANUAL RESET. C. GENERAL FIRE ALARM: HARDWIRE A GLOBAL CONTROL MODULE FROM THE FIRE ALARM TO THE UNIT FOR	AND OPERATE IN NORMAL MODE
		SHUT DOWN. GENERATE AN ALARM UPON RECEIVING AN ALARM FROM THE FIRE ALARM SYSTEM. SEE FIRE ALARM DRAWINGS FOR MORE INFORMATION.	A.THE BMS SHALL BE INTEGRATED WIT 1. THE FOLLOWING ITEMS SHALL BE
		D. HIGH/LOW STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 4" W.G. (ADJUSTABLE), OR THE EXHAUST AIR DUCT STATIC PRESSURE EXCEEDS -3" W.G. (ADJUSTABLE) A HIGH PRESSURE SWITCH SHALL TRIP THE SUPPLY AND EXHAUST FAN AND AN ALARM GENERATED.	SEWAGE EJECTOR PUMPS SYSTEM SE1 8
в		E DIRTY FILTERS: WHEN THE DIFFERENTIAL PRESSURE EXCEEDS THE FILTER MANUFACTURER'S RECOMMENDATIONS FOR DIRTY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS. CONTRACTOR TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING.	A.THE BMS SHALL BE INTEGRATED WIT 1. THE FOLLOWING ITEMS SHALL BE
D		F. LOW TEMPERATURE DETECTION THERMOSTAT (FREEZESTAT): AVERAGING FREEZESTATS SHALL BE HARDWIRED TO STOP THE ASSOCIATED DOAS FANS, IF THE COOLING COIL'S INLET TEMPERATURE DROPS BELOW 20 DECREE F (AD.L.) IN THE EVENT OF A EREFZESTAT TRIP. THE SUPPLY AND EXHAUST FANS	<ul> <li>EJECTOR PUMPS STATUS</li> <li>HIGH LIMIT ALARM</li> <li>HIGH LIMIT OVERRRIDE (BI</li> </ul>
		SHALL BE SHUTDOWN AND THE EXHAUST AND OUTSIDE AIR DAMPERS SHALL BE CLOSED, AND AN ALARM SHALL BE GENERATED. TO RESTART THE SYSTEM, ALL DEVICES MUST BE MANUALLY RESET.	LOW LEVEL (PUMPS OFF)
		G. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH LIMIT IS DETECTED, ALARM THE DDC SYSTEM.	A. THE BMS SHALL BE INTEGRATED WI 1. THE FOLLOWING ITEMS SHALL BE
		H. OUTDOOR AIR DELIVERY MONITORING: PROVIDE A DIRECT OUTDOOR AIR MEASUREMENT DEVICE CAPABLE OF MEASURING THE OUTDOOR AIR FLOW. ALARM THE BAS CENTRAL MONITORING STATION IF THE OUTDOOR AIR CEM DROPS 10% (AD.L.) BELOW THE DESIGN VALUE	WATER HEATER OUTLET T WATER HEATER INLET TEN
		I. SUPPLY AND EXHAUST FAN FAILURE, HAND POSITION, RUNTIME EXCEEDED. J. HIGH AND LOW MIXED AIR TEMPERATURES GREATER THAN 90°F AND 45°F (ADJ.)	DIGITAL MIXING VALVE HO DIGITAL MIXING VALVE OU HOT WATER RECIRCULATI
		L. HIGH AND LOW EXHAUST AIR TEMPERATURE GREATER THAN 70% AND 35% (ADJ.). K. HIGH AND LOW SUPPLY AIR TEMPERATURE GREATER THAN 120°F AND 45°F (ADJ.).	DOMESTIC WATER SERVICE
		<ul> <li>L. HIGH CO2 CONCENTRATION GREATER THAN 1000 PPM (ADJ.) IN THE OCCUPIED MODE EITHER AT THE SPACE OR EXHAUST AIR DUCT.</li> <li>M. BAS FAILURE: IF COMMUNICATION IS LOST WITH THE BAS. THE AHU SHALL USE ITS DEFAULT SETPOINTS</li> </ul>	1. THE FOLLOWING ITEMSSHALL BE MONITOR DRAIN DISCHA
	23.	AND OPERATE IN NORMAL MODE. THE CONTROL BANDS, SETPOINT INCREMENT VALUES, SETPOINT DECREMENT VALUES AND ADJUSTMENT	
		WITH STABLE SYSTEM CONTROL AND MAXIMUM COMFORT CONTROL.	1. THE INFRARED HEATERS SHALL BE V HEATING SHALL BE ENABLED AND M
	EXH 1. 2	AUST FANS (CONSTANT VOLUME, AND INTERLOCKED WITH EQUIPMENT) THESE EXHAUST FANS ARE A CONSTANT AIR VOLUME FAN. THIS SEQUENCE OF OPERATION APPLIES TO THE FOLLOWING FANS	2. BAS/DDC SHALL MONITOR ALL ALARI
		A.EF4 (INTERLOCKED WITH VRF SYSTEM FOR PRESS AREA. FAN TURNS ON WHEN VRF SYSTEM IS ENABLED)	TERMINAL BOXES 1. THE VAV BOX CONTROLLER SHALI
	3.	B. EF5 (INTERLOCKED WITH MAU1) C.EF6 (INTERLOCKED WITH MAU2) SYSTEM START UP: THE ASSOCIATED MOTORIZED DAMPER SHALL OPEN AND THE FAN SHALL START	THROUGH THE BAS. 2. WHEN THE SPACE TEMPERATURE
÷	4.	ONCE A SIGNAL IS PROVIDED FROM INTERLOCKED EQUIPMENT. THE DDC SYSTEM SHALL MONITOR:	CONTROLLER SHALL MODULATE T MAXIMUM AIRFLOW POSITION TO M
MECH.rv	5	B. DAMPER POSITION SYSTEM ALARMS AND SAFETIES:	4. ON A CONTINUED FALL IN SPACE TEMPERATUR 4. ON A CONTINUED FALL IN SPACE T
all_R18_		A.IF A FAN IS NOT SENSED TO BE OPERATING, ALARM THE DDC SYSTEM. B. IF DAMPER DOES NOT PROVE OPEN, ALARM THE DDC SYSTEM. MONITOR DAMPER COMMAND AND STATUS IE APPLICABLE - FAN SUALL DE INTERLOCKED TO DAMPER	5. THE DDC SYSTEM SHALL MODULATE T
l_ Basebi	6.	SO THAT FAN CANNOT START UNTIL DAMPER IS FULLY OPEN.	6. UNOCCUPIED TERMINAL BOX AIRF UNOCCUPIED AIRFLOW SETPOINT
_ Marshal	<u>DU0</u> 1.	TLESS SPLIT SYSTEM THE SEQUENCE OF OPERATION FOR THE DUCTLESS SPLIT SYSTEM SHALL BE THE MANUFACTURER'S	UNOCCUPIED TIMES. UNOCCUPIE SYSTEM FOR AN ENTIRE AHU.
1590790_		HARDWARE AND SOFTWARE WITH STANDARD OPERATING FUNCTIONS. THE DUCTLESS SPLIT SYSTEM, INCLUDING THE OUTDOOR HEAT PUMP UNIT, AND INDOOR FAN COIL UNIT, SHALL OPERATE UNDER THEIR INTERNAL CONTROLS. THE INDOOR AND OUTDOOR UNIT CONTROLS SHALL BE INTERLOCKED PER THE	UNOCCUPIED SPACE TEMPERATU UNOCCUPIED COOLING AND HEAT THE AMOUNT OF COOLING AND HE
seball/6C		MANUFACTURER'S RECOMMENDATION. THE DUCTLESS SPLIT SYSTEM WILL CONTROL ALL THERMAL EXPANSION VALVES, COMPRESSOR OPERATION, ETC. ALL SETPOINTS, SCHEDULES, ALARMS, AND OPERATION FEATURES SHALL BE THROUGH THE	TEMPERATURE RESET IS ACTIVAT
ersity Ba	2	MANUFACTURERS CONTROLS. ALL FEATURES SHALL ALSO BE CAPABLE OF BEING BEING VIEWED, ADJUSTED AND MONITORED THROUGH THE BAS.	1. THE UNIT CONSISTS OF A SUPPLY F 2. THE UNIT SHALL BE STARTED AND S
shall Univ	3	INDOOR FAN COIL UNIT TO MAINTAIN SPACE TEMPERATURE SETPOINT. THE SYSTEM SHALL OPERATE ON A TIME OF DAY OCCUPIED/UNOCCUPIED SCHEDULE. OCCUPANCY SHALL BE	3. A WALL MOUNTED TEMPERATURE S THE DESIRED SPACE TEMPERATUR
0:48 PM 90 - Mars	5	PREDETERMINED BY THE OWNER AND PROGRAMMED INTO THE DUCTLESS SPLIT CONTROL SYSTEM. ALL SPACES SERVED BY THE DUCTLESS SPLIT SYSTEM SETPOINT SHALL BE 75°F SUMMER AND 70°F WINTER (ALL ADJ.).	<ol> <li>ALARM THE DDC SYSTEM IF THE UN</li> <li>PROVIDE SEPARATE WALL-MOUNTE THERMOSTAT TO MONITOR THE SPAN</li> </ol>
2019 4:4 //605907:	6	A BACNET INTERFACE SHALL BE PROVIDED FOR ALARM AND MONITORING THROUGH THE BAS/DDC CONTROL SYSTEM.	GENERATED AT THE DDC SYSTEM II SETPOINT OF 45°F (ADJ.).
d: 12/11/; 3IM 360:/	7	SHUTDOWN THE FAN COIL UNITS AND ALARM BAS/DDC. 2 SHUTDOWN THE FAN COIL UNITS AND ALARM BAS/DDC. 2 BAS/DDC SHALL MONITOR ALL ALARMS FROM THE SPLIT SYSTEM CONTROLLER.	
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ANDLING UNIT (100% OUTDOOR AIR CV) AHU IS A CONSTANT AIR VOLUME UNIT. THE UNIT HAS A DRAW THROUGH CONFIGURATION AND CONSISTS OF A SUPPLY FAN, EXHAUST FAN, FILTERS, NATURAL GAS BURNER, DIRECT EXPANSION COOLING COIL, OUTSIDE AIR DAMPER, EXHAUST AIR DAMPER, AND AIR FLOW MEASURING DEVICES. THE AHU IS PROVIDED WITH A SUPPLY FAN VFD AND EXHAUST FAN VFD FOR BALANCING PURPOSES ONLY. ONCE THE AHU IS BALANCED, THE VFD SHALL BE LOCKED AT THAT SPEED. THIS SEQUENCE OF OPERATION APPLIES TO THE FOLLOWING UNITS:

SYSTEM OPERATION: THE AHU SHALL OPERATE BASED ON AN OCCUPIED/UNOCCUPIED TIME OF DAY SCHEDULE WITH MANUAL OVERRIDE LOCATED IN THE SPACE AS WELL AS A MANUAL OVERRIDE THROUGH THE BAS TO PLACE UNIT IN OCCUPIED MODE. AT THE EXPIRATION OF THIS TIME CONTROLLED OVERRIDE. THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE. COORDINATE LOCATION OF MANUAL OVERRIDE WITH

SYSTEM START UP/AHU OCCUPIED MODE: DURING THE OCCUPIED MODE, THE UNIT SHALL OPERATE TO MAINTAIN THE OCCUPIED SETPOINTS OF 75 DEGREE F IN COOLING (ADJUSTABLE) AND 70 DEGREE F IN HEATING (ADJUSTABLE). WHEN THE AHU IS ENABLED TO START, THE UNIT'S EXHAUST AND OUTDOOR AIR DAMPERS SHALL OPEN. ONCE THE DAMPERS ARE IN THE CORRECT POSITION, AS DETERMINED BY DAMPER END SWITCHES, THE SUPPLY AND EXHAUST FANS SHALL START. THE OUTSIDE AIR AND EXHAUST DAMPERS SHALL BE NORMALLY CLOSED. AN AIRFLOW MEASURING STATION SHALL MEASURE THE AMOUNT OF OUTSIDE

MORNING WARM UP / COOL DOWN: THE BAS SHALL ENABLE THE AHU TO START IN ADVANCE OF THE SCHEDULED OCCUPIED TIME, VIA AN ADAPTIVE OPTIMAL START SEQUENCE. THE ADAPTIVE OPTIMAL START SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD. THE UNIT SHALL ENTER A MORNING WARM UP / COOL DOWN MODE IF NECESSARY BASED ON SPACE TEMPERATURE. ONCE THE OCCUPIED SPACE TEMPERATURE SETPOINT IS REACHED, THE SYSTEM SHALL ENTER OCCUPIED MODE. SHOULD THE SPACE TEMPERATURES NOT REACH THE OCCUPIED SETPOINT BEFORE THE SCHEDULED OCCUPIED TIME, OR REACH SETPOINT TOO EARLY, THE ADAPTIVE OPTIMAL START SEQUENCE SHALL AUTOMATICALLY ADJUST FOR SUBSEQUENT STARTS.

NIGHT SETBACK / AHU UNOCCUPIED MODE: THE BAS SHALL SHUTDOWN THE AHU USING THE SYSTEM SHUTDOWN SEQUENCE. IF ANY SPACE TEMPERATURE DROPS BELOW THE UNOCCUPIED HEATING 50 DEGREE F (ADJUSTABLE) SETPOINT OR ABOVE THE UNOCCUPIED COOLING 90 DEGREE F (ADJUSTABLE) SETPOINT. THE AHU SHALL BE ENABLED. THE AHU SHALL CONTINUE TO OPERATE A MINIMUM OF 5 MINUTES (ADJUSTABLE) AFTER SATISFACTION OF THE UNOCCUPIED SPACE TEMPERATURE SETPOINT. THE SUPPLY AND EXHAUST FAN'S AIRFLOW SHALL BE SYNCED. THIS MODE SHALL BE ABLE TO BE INITIATED/SCHEDULED BY THE OWNER THROUGH THE BAS FRONT END.

SUPPLY FAN CONTROL: THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE AN ADJUSTABLE MINIMUM RUNTIME. THE SUPPLY FAN IS PROVIDED WITH A FACTORY MOUNTED VFD. THE SUPPLY FAN WILL OPERATE AT A CONSTANT SPEED SET POINT (ADJUSTABLE) DURING OPERATION. EXHAUST FAN CONTROL: THE EXHAUST FAN SHALL BE INTERLOCKED IN UNISON WITH THE SUPPLY FAN AND RUN ANYTIME THE UNIT IS COMMANDED TO RUN UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE EXHAUST FAN SHALL HAVE AN ADJUSTABLE MINIMUM RUNTIME. THE EXHAUST FAN IS PROVIDED WITH A FACTORY MOUNTED VFD. THE EXHAUST FAN WILL OPERATE AT A CONSTANT SPEED SET POINT

COOLING CONTROL: COOLING SHALL BE ENABLED WHENEVER DEHUMIDIFICATION IS REQUIRED OR OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.) AND SUPPLY FAN STATUS IS ON. ON A CALL FOR COOLING THE UNIT CONTROLLER SHALL MODULATE THE COMPRESSORS, CONDENSER FANS, EXPANSION VALVE, AND HOT GAS REHEAT TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT 54°F (ADJ.). THE CONTROLS SHALL PROHIBIT THE UNIT FROM SIMULTANEOUSLY COOLING AND HEATING.

HEATING CONTROL: NATURAL GAS BURNER SHALL BE HARDWIRED FOR ENABLE/DISABLE, STATUS, AND MODULATING CONTROL. HEATING CONTROL SHALL BE ENABLED WHENEVER DEHUMIDIFICATION IS REQUIRED OR THE OUTSIDE AIR TEMPERATURE IS BELOW 50°F (ADJ.), AND SUPPLY FAN STATUS IS ON. MODULATE THE NATURAL GAS BURNER TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT OF 85°F (ADJ). THE CONTROLS SHALL PROHIBIT THE UNIT FROM SIMULTANEOUSLY COOLING AND HEATING.

DEHUMIDIFICATION MODE: THE CONTROLLER SHALL MEASURE THE SPACE AIR HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN SPACE AIR HUMIDITY AT OR BELOW 60% RH (ADJ.) FOR THE AREA SERVED BY THE UNIT. DURING DEHUMIDIFICATION, THE HOT GAS HEATING SHALL BE MODULATED TO MAINTAIN A SETPOINT OF 1°F (ADJ.) LESS THAN THE ZONE COOLING SETPOINT. IF DEHUMIDIFICATION MODE IS ENABLED AND THE UNIT IS IN SUPPLY TEMPERATURE RESET MODE, THE DISCHARGE AIR TEMPERATURE SHALL BE RESET DOWN TO 53°F. DEHUMIDIFICATION SHALL BE ENABLED WHENEVER THE SUPPLY FAN STATUS IS ON AND SPACE HUMIDITY EXCEEDS 60% RH (ADJ.) FOR 5 MINUTES (ADJ.). DEHUMIDIFICATION SHALL REMAIN ACTIVE UNTIL THE SPACE HUMIDITY DROPS BELOW A 10% RH DEADBAND (ADJ.).

SUPPLY TEMPERATURE RESET: THE COOLING DISCHARGE AIR SETPOINT SHALL BE CAPABLE OF BEING RESET INCREMENTALLY INCREASED BETWEEN 55°F TO 65°F (ADJ.) PRIOR TO ENTERING THE HEATING MODE. SUPPLY AIR TEMPERATURE RESET SHALL BE THE FIRST STAGE OF HEATING PRIOR TO ENABLING THE NATURAL GAS BURNER. SUPPLY AIR TEMPERATURE RESET SHALL BE OVERRIDDEN VIA A CALL FOR COOLING OR DEHUMIDIFICATION IS ENABLED. SYSTEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY FAN SHALL BE DISABLED, THE

OUTDOOR AIR DAMPER SHALL CLOSE, THE PREHEATING, REHEATING, AND COOLING COIL VALVES SHALL BE 100% CLOSED, AND THE HUMIDIFIER SHALL BE DE-ENERGIZED. THE BAS SHALL MONITOR:

B. HEATING STATUS. C. THE SUPPLY AND EXHAUST FANS STATUS VIA CURRENT SENSORS AND FAN VFD'S.

D. THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES. E. OUTDOOR AIR, SUPPLY AIR, AND SPACE TEMPERATURE.

OUTDOOR AIR, SUPPLY AIR, AND SPACE HUMIDITY. G. EXHAUST AND SUPPLY AIRFLOWS VIA AIRFLOW MONITORS

H. PRESSURE DROP ACROSS ALL FILTER SECTIONS. ALL ALARMS FROM MANUFACTURER'S INTEGRAL CONTROLLER.

SYSTEM ALARMS AND SAFETIES: A. IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE BAS.

B. HIGH/LOW STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 3" W.G. (ADJUSTABLE), OR THE EXHAUST AIR DUCT STATIC PRESSURE EXCEEDS -2.5" W.G. (ADJUSTABLE) A HIGH PRESSURE SWITCH SHALL TRIP THE SUPPLY AND EXHAUST FAN AND AN ALARM GENERATED.

C. DIRTY FILTERS: WHEN THE DIFFERENTIAL PRESSURE EXCEEDS THE FILTER MANUFACTURER'S RECOMMENDATIONS FOR DIRTY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS. CONTRACTOR TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING. F. HIGH HUMIDITY: ALARM THE BAS IF THE SUPPLY AIR HUMIDITY LEVEL RISES TO 80% RH (ADJUSTABLE) OR

HIGHER G. CONDENSATE DRAIN PAN OVERFLOW PROTECTION: PROVIDE A CONDENSATE DRAIN PAN FLOAT OR HIGH LIMIT WATER SENSOR TO PREVENT DRAIN PAN OVERFLOW DUE TO A CLOG IN ASSOCIATED DRAIN PIPING. IF HIGH LIMIT IS DETECTED, ALARM THE BAS AND DISABLE COOLING.

H. OUTDOOR AIR DELIVERY MONITORING: PROVIDE A DIRECT OUTDOOR AIR MEASUREMENT DEVICE CAPABLE OF MEASURING THE OUTDOOR AIR FLOW SUPPLY AND EXHAUST FAN FAILURE. HIGH/LOW REFRIGERANT PRESSURE: IN THE CASE OF LOW REFRIGERANT PRESSURE, THE COMPRESSORS

WILL SHUT DOWN UNTIL REFRIGERANT PRESSURE RETURNS TO NORMAL VALUES AND THE CONTROLLER WILL SEND AN ALARM. IN THE CASE OF HIGH REFRIGERANT PRESSURE, THE COMPRESSORS WILL SHUT DOWN REQUIRING A MANUAL RESET AND CONTROLLER WILL SEND AN ALARM. K. BAS FAILURE: IF COMMUNICATION IS LOST WITH THE BAS, THE AHU SHALL USE ITS DEFAULT SETPOINTS AND OPERATE IN NORMAL MODE.

BMS SHALL BE INTEGRATED WITH THE WATER SOFTENER SYSTEM. THE FOLLOWING ITEMS SHALL BE PROVIDED THROUGH THE BMS:

GE EJECTOR PUMPS SYSTEM SE1 & 2 (CONTROLLER)

WHICH VESSEL IS IN REGENERATION

BMS SHALL BE INTEGRATED WITH THE EJECTOR PUMPS SYSTEM. THE FOLLOWING ITEMS SHALL BE PROVIDED THROUGH THE BMS:

EJECTOR PUMPS STATUS OPERATING/STANDBY (2 EACH)

HIGH LIMIT ALARM HIGH LIMIT OVERRRIDE (BOTH PUMPS ON) LOW LEVEL (PUMPS OFF)

ATER HEATER SYSTEMS GWH1 & GWH2 (INCLUSIVE OF MIXING VALVE AND RECIRCULATION PUMP) HE BMS SHALL BE INTEGRATED WITH THE GAS WATER HEATER SYSTEMS

THE FOLLOWING ITEMS SHALL BE PROVIDED THROUGH THE BMS: WATER HEATER OUTLET TEMPERATURE

WATER HEATER INLET TEMPERATURE DIGITAL MIXING VALVE HOT WATER INLET TEMPERATURE

DIGITAL MIXING VALVE OUTLET TEMPERATURE HOT WATER RECIRCULATION PUMP STATUS

HE BMS SHALL BE INTEGRATED WITH THE DOMESTIC WATER SERVICE THE FOLLOWING ITEMSSHALL BE MONITORED THROUGH THE BMS: MONITOR DRAIN DISCHARGE AT MAIN SERVICE BACKFLOW PREVENT

### $\sim$ ED HEATER (ELECTRIC AND NATURAL GAS)

THE INFRARED HEATERS SHALL BE WIRED THROUGH THE INFRARED HEATER CONTROLLER. THE INFRARED HEATING SHALL BE ENABLED AND MODULATED BY THE WALL MOUNTED CONTROL. WHEN OUTDOOR TEMPERATURE IS ABOVE 50°F (ADJ), THE HEATERS SHALL BE LOCKED OUT. BAS/DDC SHALL MONITOR ALL ALARMS AND ON/OFF STATUS

IAL BOXES THE VAV BOX CONTROLLER SHALL CONTROL THE VAV BOX DAMPER AND ELECTRIC REHEAT TO MAINTAIN THE VAV BOX'S SPACE TEMPERATURE SETPOINT. ALL SETPOINTS SHALL BE ADJUSTABLE

THROUGH THE BAS. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SPACE TEMPERATURE SETPOINT, THE CONTROLLER SHALL MODULATE THE VAV BOX DAMPER FROM ITS MINIMUM AIRFLOW POSITION TO ITS MAXIMUM AIRFLOW POSITION TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. ON A FALL IN SPACE TEMPERATURE BELOW THE SPACE TEMPERATURE SETPOINT. THE CONTROLLER SHALL MODULATE THE VAV BOX DAMPER TO ITS MINIMUM AIRFLOW POSITION. ON A CONTINUED FALL IN SPACE TEMPERATURE BELOW THE SPACE TEMPERATURE SETPOINT, THE CONTROLLER SHALL MODULATE THE VAV BOX ELECTRIC REHEAT WHERE APPLICABLE. THE DDC SYSTEM SHALL MONITOR SPACE TEMPERATURE, DAMPER POSITION, ELECTRIC REHEAT, AIRFLOW, DISCHARGE AIR TEMPERATURE, AND MODE (COOLING, HEATING). UNOCCUPIED TERMINAL BOX AIRFLOW RESET: ALL TERMINAL BOXES SHALL HAVE A PROGRAMMABLE

UNOCCUPIED AIRFLOW SETPOINT THAT CAN BE USED TO REDUCE THE MINIMUM AIRFLOW DURING UNOCCUPIED TIMES. UNOCCUPIED TERMINAL BOX AIRFLOW RESET IS ACTIVATED THROUGH THE DDC SYSTEM FOR AN ENTIRE AHU. UNOCCUPIED SPACE TEMPERATURE RESET: ALL TERMINAL BOXES SHALL HAVE A PROGRAMMABLE

UNOCCUPIED COOLING AND HEATING SPACE TEMPERATURE SETPOINT THAT CAN BE USED TO REDUCE THE AMOUNT OF COOLING AND HEATING DURING UNOCCUPIED TIMES. UNOCCUPIED SPACE TEMPERATURE RESET IS ACTIVATED THROUGH THE DDC SYSTEM FOR AN ENTIRE AHU.

EATER (ELECTRIC) THE UNIT CONSISTS OF A SUPPLY FAN, AND ELECTRIC HEATING COIL. THE UNIT SHALL BE STARTED AND STOPPED THROUGH INTEGRAL SELF CONTAINED CONTROLS AND

MONITORED THROUGH THE DDC SYSTEM. A WALL MOUNTED TEMPERATURE SENSOR SHALL CYCLE THE FAN AND ELECTRIC HEATING COIL TO MAINTAIN THE DESIRED SPACE TEMPERATURE. ALARM THE DDC SYSTEM IF THE UNIT FAILS TO OPERATE AS DETERMINED BY A CURRENT SENSOR

PROVIDE SEPARATE WALL-MOUNTED SPACE TEMPERATURE SENSOR ADJACENT TO THE FACTORY SUPPLIED THERMOSTAT TO MONITOR THE SPACE TEMPERATURE THROUGH THE DDC SYSTEM. AN ALARM SHALL BE GENERATED AT THE DDC SYSTEM IF THE SPACE TEMPERATURE DROPS BELOW A LOW TEMPERATURE SETPOINT OF 45°F (ADJ.)

ELECTRICAL POWER MONITORING SYSTEMS A.THE POWER MONITORING SYSTEM WILL MONITOR ELECTRICAL DEVICES LIKE METERS, TRIP UNITS, AND EQUIPMENT. BOTH TOTALIZED (CONSUMPTION) VALUES AND INSTANTANEOUS (DEMAND) VALUE SHALL BE INTEGRATED.

in	TOTALIZED (CONSUMPTION) VALUES /
1. ]	THE FOLLOWING POINTS SHALL BE MO
1.	REAL ENERGY KWHR
	DEMAND REAL POWER KWD
2.9	TRUE POWER FACTOR TOTAL
	REAL ENERGY KWHR
1.	CURRENT PH A
	CURRENT PH B
	CURRENT PH C
-	CURRENT NEUTRAL
1.1	CURRENT 3-PH AVERAGE
1.	CURRENT APPARENT RMS
5	VOLTAGE A-B
29	VOLTAGE B-C
1.0	VOLTAGE C-A
• 1	VOLTAGE AVERAGE
. 1	VOLTAGE A-N
. 1	VOLTAGE B-N
. 1	VOLTAGE C-N
	REAL POWER PH A KW
- 1	REAL POWER PH B KW
	그 그럼 누는 것은 것을 정 가지 않는 것 같아요.

REAL POWER PH C KW REAL POWER TOTAL KW

THE AVERAGE AND MAXIMUM LOADING (CURRENT AND POWER) VALUES OF THE CIRCUIT, AND PERCENTAGE LOADS COMPARED TO THE BREAKER SIZE.

GENERATORS A.THE BMS SHALL PROVIDE A SINGLE VIEW FOR THE GENERATOR AND FUEL TANK MONITORING STATUS AND ALARMS. THIS IS A CRUCIAL VIEW WHEN POWER OUTAGE SITUATIONS OCCUR AND MECHANICAL EQUIPMENT IS BROUGHT BACK ONLINE AS THE GENERATOR RAMPS UP TO FULL CAPACITY AND THEN RUNS THROUGHOUT AN OUTAGE. THE BMS SYSTEM SHALL DISPLAY VIA A GRAPHICAL USER INTERFACE ALL MONITORED POINTS FOR THE GENERATORS. THE USER SHALL HAVE THE ABILITY TO RECEIVE ALARMS FROM STATUS POINT BASED ON A DEFINED SEQUENCE OF EVENTS.

- 1. THE FOLLOWING POINTS SHALL BE MONITORED BY THE BMS WHEN AVAILABLE FROM THE GENERATOR: AC VOLTMETER
- AC AMMETER GENERATOR RUNNING
- GENERATOR CONTROL 'NOT-IN-AUTO' MODE ALARM FUEL FLOW
- EMERGENCY STOP SWITCH ACTIVATED GENERATOR OVERLOAD ALARM
- FAILURE OF COMMUNICATION LINK

DRY CONTACTS SHALL BE ACCEPTABLE FOR THIS INTEGRATION WHEN MONITORING GENERATOR RUN STATUS.

VARIABLE REFRIGERANT FLOW (VRF) SYSTEM 1. THE SEQUENCE OF OPERATION FOR THE VRF SYSTEM SHALL BE THE MANUFACTURER'S HARDWARE AND

- SOFTWARE WITH STANDARD OPERATING FUNCTIONS. THE VRF SYSTEM, INCLUDING THE OUTDOOR HEAT PUMP UNITS, INDOOR FAN COILS, AND CHANGE-OVER BOXES SHALL OPERATE UNDER THEIR INTERNAL CONTROLS. THE INDOOR AND OUTDOOR UNIT CONTROLS SHALL BE INTERLOCKED PER THE MANUFACTURER'S RECOMMENDATION. THE VRF CONTROL SYSTEM WILL CONTROL ALL THERMAL EXPANSION VALVES, COMPRESSOR OPERATION, ETC.
- 2. ALL SETPOINTS, SCHEDULES, ALARMS, AND OPERATION FEATURES SHALL BE THROUGH THE MANUFACTURER'S CONTROLS. ALL FEATURES SHALL ALSO BE CAPABLE OF BEING BEING VIEWED, ADJUSTED
- AND MONITORED THROUGH THE BAS 3. THE FACTORY SUPPLIED, WALL-MOUNTED THERMOSTAT/CONTROLLER SHALL CONTROL THE INDIVIDUAL
- INDOOR FAN COIL UNITS TO MAINTAIN SPACE TEMPERATURE SETPOINT. EACH INDOOR UNIT SHALL MODULATE
- BASED ON THE RETURN AIR TEMPERATURE SENSED AT EACH UNIT IN ORDER TO MAINTAIN SETPOINT. 4. THE VRF SYSTEM SHALL OPERATE ON A TIME OF DAY OCCUPIED/UNOCCUPIED SCHEDULE. OCCUPANCY SHALL
- BE PREDETERMINED BY THE OWNER AND PROGRAMMED INTO THE VRF CONTROL SYSTEM. 5. VRF SYSTEM SHALL BE CAPABLE TO SIMULTANEOUSLY PROVIDE HEATING AND COOLING TO DIFFERENT
- SPACES. 6. ALL OCCUPIED SPACES SERVED BY THE VRF SYSTEM SETPOINT SHALL BE 75°F SUMMER AND 70°F WINTER
- (ALL ADJ.) 7 ALL UNOCCUPIED SPACES SERVED BY THE VRF SYSTEM SETPOINT SHALL BE 85°F SUMMER AND 60°F WINTER
- 8. A BACNET INTERFACE SHALL BE PROVIDED FOR ALARM AND MONITORING THROUGH THE BAS/DDC CONTROL SYSTEM
- 9. ALL FAN COIL UNITS SHALL HAVE AN AUXILIARY CONDENSATE OVERFLOW SWITCH INTERLOCKED TO SHUTDOWN THE FAN COIL UNITS AND ALARM BAS/DDC.
- 10. BAS/DDC SHALL MONITOR ALL ALARMS FROM THE YRF CONTROLLERS. VENTILATION EXHAUST FANS (CONSTANT VOLUME, AND ON/OFF)

THESE EXHAUST FANS ARE A CONSTANT AIR VOLUME FAN

- 2. THIS SEQUENCE OF OPERATION APPLIES TO THE FOLLOWING FANS A EF1 B. EF2
- C.EF3 SYSTEM STARTOR THE PANSHALL BE CAPABLE OF
- ACTIVATED VIA THERMOSTAT AND MONITORED THROUGH THE DDC SYSTEM. A WALL MOUNTED THERMOSTAT SHALL OPEN A DAMPER AND CYCLE THE FAN TO MAINTAIN 80°F SPACE TEMPERATURE (ADJUSTABLE)
- THE DOC SYSTEM SHALL MONITOR A.THE STATUS OF THE FAN VIA A CURRENT SENSOR.
- **B. ZONE TEMPERATURE.** C.DAMPER POSITION
- SYSTEM ALARMS AND SAFETIES:
- A.IF A FAN IS NOT SENSED TO BE OPERATING, ALARM THE DDC SYSTEM. B. IF DAMPER DOES NOT PROVE OPEN, ALARM THE DDC SYSTEM. MONITOR DAMPER COMMAND, POSITION AND STATUS VIA END SWITCHES. FAN SHALL BE INTERLOCKED TO DAMPER SO THAT FAN CANNOT START UNTIL DAMPERS ARE FULLY OPEN.

ONITORED BY THE BMS WHEN AVAILABLE FROM THE MAIN METERING

### ELEVATOR CONTROLS

A. THE BMS SHALL BE INTEGRATED WITH THE ELEVATORS CONTROLLER TO ENABLE MONITORING AND CONTROL OF CARD ACCESS BY PERSONS, FLOORS SELECTED, AND LOGGED FOR FUTURE INVESTIGATION PURPOSES. ELEVATOR FUNCTIONALITY CAN BE MANAGED BY SIMPLY SWIPING A CARD AND ENTERING AN ACCESS CODE AND THE ELEVATOR CONTROL SYSTEM PRIORITIZES THIS REQUEST AND DIRECTS A CAB DIRECTLY TO THEIR FLOOR FOR THAT PERSON'S USE. THIS COULD BE EMPLOYED FOR EMERGENCY ACCESS FOR DOCTORS OR CODE BLUE SITUATIONS THROUGH THE BMS.

- BASED ON THE ELEVATOR VENDOR'S CAPABILITY, THE ACCESS CONTROL SYSTEM (ACS) SHALL SEND A FLOOR ALLOWED MESSAGE BASED ON A VALIDATED CARD SWIPE. THE MESSAGE SHALL BE LOGGED AS AN ACCESS EVENT IN THE ACS WITH KNOWN INFORMATION. THE ACS SHALL BE ABLE TO SEND ADDITIONAL REQUESTS WITHIN 2 SECONDS OF PROCESSING THE LAST, WITHOUT INTERRUPTING THE PREVIOUS REQUEST. THE ACS SHALL BE ABLE TO RECEIVE AND PROCESS A MESSAGE FROM THE ECS WHEN AN ENABLED BUTTON IS PRESSED AND SHALL CREATE AN ACCESS EVENT BASED ON THE BUTTON SELECTED. IF MULTIPLE BUTTONS ARE PRESSED, IT SHALL LOG EACH. THE ACS SHALL SEND PRIORITY CREDENTIALS WHICH DIRECT THE ELEVATOR TO GO DIRECTLY TO THE FLOOR OF THE NEXT BUTTON PUSHED OVERRIDING ALL PREVIOUS REQUESTS.
- AT A MINIMUM, THE BMS SHALL MONITOR THE FOLLOWING POINTS (TYPICAL OF 4): STANDBY POWER OPERATION
- STANDBY-POWERED LOWERING.
- BATTERY-POWERED LOWERING. · AUTOMATIC DISPATCHING OF LOADED CAR.
- NUISANCE CALL CANCEL
- · EMERGENCY HOSPITAL SERVICE AT ALL FLOORS. INDEPENDENT SERVICE FOR ELEVATOR
- · LOADED-CAR BYPASS. CAR POSITION
- DOOR POSITION IN-CAR EMERGENCY PHONE USE ALARM
- NEXT DESTINATION PER CAR
- CURRENT TRAVEL DIRECTION - ACTIVE FLOOR CALLS
- CURRENT MODE/SERVICE STATUS
- REMOVE CAR FROM SERVICE · RETURN CAR TO SERVICE
- HALL CALL UP DEMAND HALL CALL DOWN DEMAND
- INTERIOR & EXTERIOR CAMERAS A.THE BMS SHALL BE INTEGRATED WITH THE SECURITY CAMERA SYSTEM TO PROVIDE ACCESS EVENTS OR ALARMS.
- FIRE ALARM & FIRE PROTECTION A.THE BMS SHALL BE INTEGRATED WITH THE FIRE ALARM AND FIRE PROTECTION SYSTEMS TO CERTAIN FIRE SYSTEM ALARM OR TROUBLE POINTS AND PRESENT ON THE SAME GRAPHIC FLOOR PLANS.
  - 1. THE FOLLOWING ALARMS AND MONITORED POINTS SHALL BE PROVIDED FROM FIRE ALARM AND FIRE PROTECTION PANELS: LOSS OF COMMUNICATION ALARM
  - SPRINKLER SYSTEM ALARM

FIRE DETECTION ALARM

- MAKEUP AIR UNITS MAU'S ARE CONSTANT AIR VOLUME 100% OUTSIDE AIR UNITS. THE UNITS HAVE A DRAW THROUGH CONFIGURATION AND CONSIST OF A SUPPLY FAN, FILTER, NATURAL GAS DIRECT-FIRED BURNER, OUTSIDE AIR DAMPER, AND AIR FLOW MEASURING DEVICES. THE MAU'S ARE PROVIDED WITH A SUPPLY FAN VFD FOR BALANCING PURPOSES ONLY. ONCE THE MAU'S ARE BALANCED, THE VFD SHALL BE LOCKED AT THAT SPEED. MAU'S SHALL BE INTERLOCKED WITH THEIR ASSOCIATED EXHAUST FANS FOR OPERATION.
- 2. THIS SEQUENCE OF OPERATION APPLIES TO THE FOLLOWING UNITS: A MAU1 (INTERLOCKED WITH EE5)
- B. MAU2 (INTERLOCKED WITH EF6)
- SYSTEM OPERATION: THE MAU'S SHALL OPERATE BASED ON AN OCCUPIED/UNOCCUPIED TIME OF DAY SCHEDULE WITH MANUAL OVERRIDE THROUGH THE BAS TO PLACE A UNIT IN OCCUPIED MODE. AT THE EXPIRATION OF THIS TIME CONTROLLED OVERRIDE, THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE
- 4. SYSTEM START UP/MAU OCCUPIED MODE: DURING THE OCCUPIED MODE, THE UNIT SHALL OPERATE AT A CONSTANT AIRFLOW RATE. WHEN THE MAU IS ENABLED TO START, THE OUTDOOR AIR DAMPER SHALL OPEN. ONCE THE DAMPER IS IN THE CORRECT POSITION, AS DETERMINED BY DAMPER END SWITCHES, THE SUPPLY FAN SHALL START. IF THE SPACE TEMPERATURE, AS SENSED BY SPACE TEMPERATURE SENSOR, IS BELOW 59 DEGREE F. THE UNIT SHALL AUTOMATICALLY GO INTO HEATING MODE AND THE BURNER SHALL MODULATE TO MAINTAIN SETPOINT. IF THE SPACE TEMPERATURE IS ABOVE 59 DEGREE F, THEN THE HEATING IS LOCKED OUT, BUT THE FAN SHALL RUN AT THE CONSTANT AIRFLOW RATE.
- 5. MORNING WARM UP: THE BAS SHALL ENABLE THE MAU TO START IN ADVANCE OF THE SCHEDULED OCCUPIED TIME, VIA AN ADAPTIVE OPTIMAL START SEQUENCE. THE ADAPTIVE OPTIMAL START SHALL MINIMIZE THE UNOCCUPIED WARM-UP PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULE OCCUPIED PERIOD. THE UNIT SHALL ENTER A MORNING WARM UP MODE IF NECESSARY BASED ON SPACE TEMPERATURE. ONCE THE OCCUPIED SPACE TEMPERATURE SETPOINT IS REACHED, THE SYSTEM SHALL ENTER OCCUPIED MODE. SHOULD THE SPACE TEMPERATURES NOT REACH THE OCCUPIED SETPOINT BEFORE THE SCHEDULED OCCUPIED TIME, OR REACH SETPOINT TOO EARLY, THE ADAPTIVE OPTIMAL START SEQUENCE SHALL AUTOMATICALLY ADJUST FOR SUBSEQUENT STARTS.
- 6. NIGHT SETBACK / MAU UNOCCUPIED MODE: THE BAS SHALL SHUTDOWN THE MAU USING THE SYSTEM SHUTDOWN SEQUENCE. IF ANY SPACE TEMPERATURE DROPS BELOW THE UNOCCUPIED HEATING 40°F (ADJUSTABLE) SETPOINT, THE MAU SHALL BE ENABLED, WHEN THE MAU IS ENABLED TO START, THE UNIT'S OUTDOOR AIR DAMPER SHALL OPEN. ONCE THE DAMPER IS IN THE CORRECT POSITION, THE SUPPLY FAN SHALL START. THE MAU SHALL CONTINUE TO OPERATE A MINIMUM OF 5 MINUTES (ADJUSTABLE) AFTER SATISFACTION OF THE UNOCCUPIED SPACE TEMPERATURE SETPOINT. THIS MODE SHALL BE ABLE TO BE INITIATED/SCHEDULED BY THE OWNER FOR ALL MAU'S THROUGH THE BAS FRONT END.
- SUPPLY FAN CONTROL: THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN UNLESS SHUTDOWN ON SAFETIES. THE SUPPLY FAN SHALL BE INTERLOCKED TO OPERATE WITH THEIR ASSOCIATED EXHAUST FAN. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE AN ADJUSTABLE MINIMUM RUNTIME, SUPPLY FAN SHALL BE MONITORED FOR FAILURE, STATUS, START/STOP, RUNTIME, AND HAND POSITION, SUPPLY AIRFLOW SHALL BE MONITORED THROUGH THE BAS.
- HEATING CONTROL: NATURAL GAS BURNER SHALL BE HARDWIRED FOR ENABLE/DISABLE, STATUS, AND MODULATING CONTROL. HEATING CONTROL SHALL BE ENABLED WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW 55°F (ADJ.), ZONE TEMPERATURE IS BELOW HEATING SETPOINT, AND SUPPLY FAN STATUS IS ON. UPON A DROP IN SPACE TEMPERATURE, MODULATE THE NATURAL GAS BURNER TO MAINTAIN THE SPACE TEMPERATURE SETPOINT 59°F. DISCHARGE AIR TEMPERATURE (DAT) SHALL NOT EXCEED THE MAXIMUM DAT 90°F OR THE MINIMUM DAT 55°F. 9. OUTSIDE AIR CONTROL: OPEN OA DAMPER TO 100% OPEN IN CONJUNCTION WITH THE SUPPLY FAN
- OPERATION. 10. FLUSH MODE: WHEN THE CARBON MONOXIDE LEVEL REACHES IT'S LEVEL SETPOINT, A FIVE MINUTE TIME
- DELAY WILL ENERGIZE TO DISABLE THE BURNER. THIS OCCURS WHETHER THE MAU IS IN THE OFF, ON OR AUTO MODES 11. SYSTEM SHUTDOWN: WHEN A UNIT IS COMMANDED OFF, THE SUPPLY FAN SHALL BE DISABLED, THE
- OUTDOOR AIR DAMPER SHALL CLOSE, THE HEATING SHALL BE DISABLED. 12. EACH INDIVIDUAL UNIT SHALL HAVE A MANUAL SHUTDOWN / AUTO MODE SWITCH AT THE DDC CONTROL PANEL. THE MANUAL SHUTDOWN MODE SHALL SHUTDOWN THE UNIT FOR A MAINTENANCE SHUTDOWN AND FOLLOW THE SYSTEM SHUTDOWN SEQUENCE. ONCE UNIT IS MANUALLY SWITCHED BACK INTO THE AUTO MODE AT THE DDC CONTROL PANEL, THE UNIT SHALL RETURN TO NORMAL OPERATION OF THE OCCUPIED/UNOCCUPIED TIME OF DAY SCHEDULE AND FOLLOW THE STARTUP SEQUENCE. 13. THE BAS SHALL MONITOR:
- A. FAN STATUS VIA CURRENT SENSORS AND FAN VFD. B. THE AUTOMATIC DAMPER'S POSITIONS AND DAMPER END SWITCHES.
- C. HEATING STATUS D. OUTDOOR AIR, SUPPLY AIR, AND SPACE TEMPERATURE.
- E. OUTDOOR AIR, SUPPLY AIR, AND SPACE HUMIDITY.
- F SUPPLY AIRFLOWS VIA AIRFLOW MONITORS G. PRESSURE DROP ACROSS FILTER.
- H. ALL ALARMS FROM MANUFACTURER'S INTEGRAL CONTROLLER. 14. SYSTEM ALARMS AND SAFETIES
- A. IF A FAN IS NOT SENSED TO BE OPERATING OR THE AUTOMATIC DAMPERS FAIL TO OPEN OR CLOSE WHEN REQUIRED, ALARM THE BAS. B. HIGH STATIC PRESSURE: IF THE SUPPLY AIR DUCT STATIC PRESSURE EXCEEDS 3" W.G. (ADJUSTABLE), A
- HIGH PRESSURE SWITCH SHALL TRIP THE SUPPLY FAN AND AN ALARM GENERATED. C. DIRTY FILTERS: WHEN THE DIFFERENTIAL PRESSURE EXCEEDS THE FILTER MANUFACTURER'S RECOMMENDATIONS FOR DIRTY FILTERS, AN ALARM SHALL BE GENERATED THROUGH THE BAS.
- CONTRACTOR TO FIELD VERIFY MANUFACTURER'S RECOMMENDED DIFFERENTIAL SETTING. D. GAS BURNER FAILURE.
- E. BAS FAILURE: IF COMMUNICATION IS LOST WITH THE BAS, THE MAU SHALL USE ITS DEFAULT SETPOINTS AND OPERATE IN NORMAL MODE

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SHEET NUMBER

SHEET TITLE MECHANICAL SEQUENCE OF **OPERATIONS/CONTROLS** 

60590790

**PROJECT NUMBER** 

2	12/12/2019	ADDENDUM 2
I/R	DATE	DESCRIPTION

**ISSUE/REVISION** 

## 11/15/19

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BASEBALL STADIUM

PROJECT

![](_page_155_Picture_157.jpeg)

MARSHALL UNIVERSITY

Project Management Initials: Designer: TCF Checked: HCH Approved: HCH ANSI D 22"x34"			SEI& CONT	2 ROL PANEL COL	
Iniversity Baseball_R18_PLUMB.rd       B					
SORT: 3-Document St Last Plotted: 12/11/2019 9:26 Filename: BIM 360://6059076	on% Post-Consumer 1 Content Paper	6	1	5	

![](_page_156_Figure_1.jpeg)

ENLARGED PLAN AT MECH ROOM - DUGOUT LEVEL UNDERGROUND Scale: 1/4" = 1'-0"

P404

### **KEYNOTES**

![](_page_156_Figure_5.jpeg)

2 REFER TO GAS WATER HEATER DETAIL ON SHEET P501.

3 REFER TO WATER SOFTENER DETAIL ON SHEET

P501. 4 REFER TO SEWAGE EJECTOR DETAIL ON SHEET

P503. 5 FIRE PROTECTION WATER SERVICE ENTRANCE. REFER TO FIRE PROTECTION SERIES DRAWINGS.

SEE CIVIL PLAN FOR CONTINUATION. DROP DOWN WITH GAS LINE ALONG SIDE OF HVAC EQUIPMENT AND MAKE FINAL CONNECTION.

PROVIDE SHUT-OFF VALVE, REGULATOR AND DIRT LEG IN LINE. 8 REFER TO DOMESTIC WATER SERVICE DETAIL ON SHEET P501.

REFER TO ELEVATOR SUMP PUMP DETAIL ON

SHEET P501. 10 CONCENTRIC VENT KIT FOR 4" INTAKE AND

EXHAUST FROM GWH SYSTEM. DROP DOWN WITH 3/4" SCW TO ELECTRONIC TRAP PRIMER MOUNTED WITH BOTTOM AT 4' 0" AFF. EXTEND TRAP PRIMER LINES TO NEARBY FD2'S AND FS1 IN MECHANICAL ROOM.

![](_page_156_Picture_15.jpeg)

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1 011-15-19

**ISSUE/REVISION** 

2 12/12/2019 ADDENDUM 2 1 12/02/2019 ADDENDUM 1

PLUMBING ENLARGED PLANS

DESCRIPTION

I/R DATE

SHEET TITLE

60590790

**PROJECT NUMBER** 

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Marshall University Baseball Stadium

![](_page_156_Picture_58.jpeg)

![](_page_156_Picture_59.jpeg)

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![](_page_157_Figure_0.jpeg)

![](_page_157_Figure_3.jpeg)

![](_page_157_Picture_6.jpeg)

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60590790 SHEET TITLE PLUMBING DETAILS

2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION **PROJECT NUMBER** 

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![](_page_157_Picture_11.jpeg)

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![](_page_157_Picture_46.jpeg)

PROJECT

Marshall University Baseball Stadium

![](_page_158_Figure_0.jpeg)

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![](_page_158_Picture_4.jpeg)

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![](_page_158_Picture_6.jpeg)

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SHEET NUMBER

PLUMBING DETAILS

**P502** 

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![](_page_159_Figure_0.jpeg)

![](_page_159_Picture_3.jpeg)

PROJECT Marshall University Baseball Stadium

![](_page_159_Picture_5.jpeg)

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2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION **PROJECT NUMBER** 60590790 SHEET TITLE PLUMBING DETAILS

SHEET NUMBER

**P503** 

TAG EWC1 L1	<b>TYPE</b> WATER COOLER LAVATORY	DESCRIPTION           ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION. HANDS-FREE WITH UVC-LED           TREATMENT AT THE DISPENSE POINT. EXTERNAL STREAM HEIGHT ADJUSTMENT ON           LOWER UNIT, FOUR ANTIMICROBIAL COPPER PUSH PADS PER FOUNTAIN, BUILT IN		E	Т		BASIS OF L	DESIGN						ROUGH-II	N SIZE (IIN)		
TAG EWC1 L1 L2	TYPE WATER COOLER	DESCRIPTION ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION. HANDS-FREE WITH UVC-LED TREATMENT AT THE DISPENSE POINT. EXTERNAL STREAM HEIGHT ADJUSTMENT ON LOWER UNIT, FOUR ANTIMICROBIAL COPPER PUSH PADS PER FOUNTAIN, BUILT IN						VICTOR			MICO						—
EWC1 L1 L2	WATER COOLER LAVATORY	ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION. HANDS-FREE WITH UVC-LED TREATMENT AT THE DISPENSE POINT. EXTERNAL STREAM HEIGHT ADJUSTMENT ON LOWER UNIT, FOUR ANTIMICROBIAL COPPER PUSH PADS PER FOUNTAIN, BUILT IN	04818	MODEL	MANUFACTURE		MANUFACTU	RER MODEL	MANUFACTURE	R MODEL	MISC	MODEL	DCW	DHW	SAN	v	SCHEDULE NOTE
L1 L2	LAVATORY	FILTER MONITOR AND BOTTLE COUNTER.	UASIS	PG8EBQSL			MCGUIRE	165LK	MCGUIRE	8902C			1/2"	0"	1 1/2"	1 1/2"	
L2		WHITE VITREOUS CHINA, WALL MOUNTED WITH HANGER AND OVERFLOW. DRILLED FOR CONCEALED ARM CARRIER. 4" CENTERS LESS SOAP DISPENSER HOLE. PROVIDE POLISHED CHROME-PLATED CAST BREASS FAUCET WITH INTEGRAL SHANKS, QUARTER TURN CERAMIC DISC CARTRIDGES AND A 4" LONG INTEGRAL CAST SPOUT AND A 2.2 GPM PRESSURE COMPENSATING AERATOR, VANDAL-RESISTANT COLOR CODED METAL LEVER HANDLES.	KOHLER	K-2005	ZURN	Z81101	MCGUIRE	165LK	MCGUIRE	8902C	MAINLINE	ML101EZ	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TMV
	LAVATORY	WHITE VITREOUS CHINA, ADA WALL MOUNTED WITH HANGER AND OVERFLOW. DRILLED FOR CONCEALED ARM CARRIER. 4" CENTERS LESS SOAP DISPENSER HOLE. PROVIDE POLISHED CHROME-PLATED CAST BREASS FAUCET WITH INTEGRAL SHANKS, QUARTER TURN CERAMIC DISC CARTRIDGES AND A 4"	KOHLER	K-2005	ZURN	Z81101	MCGUIRE	165LK	MCGUIRE	8902C	MAINLINE	ML101EZ	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TMV
L3	LAVATORY	WHITE OVAL UNDERMOUNT SINK, GEOMETRIC OVAL BASIN WITH VERTICAL SIDES AND OVERFLOW DRAIN. HOLE OPENING IS TO BE 14X17" PROVIDE BRUSHED NICKLE WRIST BLADE FAUCETS.	KOHLER	K-2881	DELTA	1959LF-BL	MCGUIRE	165LK	MCGUIRE	8902C	MAINLINE	ML101EZ	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TMV
MS1	MOP SINK	12" MOP SERVICE BASIN WTH 6" DOP FRONT. ONE PIECE, PRECAST TERRAZZO MADE OF BLACK AND WHITE MARBLE CHIPS IN GRAY PORTLAND CEMENT WITH STAINLESS STEEL CAPS ON THRESHOLDS. QDC QUICK DRAIN CONNECTORS, VANDAL PROOF DRAIN.	FIAT	TSBC1610	ZURN	Z841M1-RC	MCGUIRE	165LK	MCGUIRE	8902C	MAINLINE	ML101EZ	1/2"	1/2"	3"	1 1/2"	
MS2	MOP SINK	12" MOP SERVICE BASIN WTH 6" DOP FRONT. ONE PIECE, PRECAST TERRAZZO MADE OF BLACK AND WHITE MARBLE CHIPS IN GRAY PORTLAND CEMENT WITH STAINLESS STEEL CAPS ON THRESHOLDS. QDC QUICK DRAIN CONNECTORS, VANDAL PROOF DRAIN.	FIAT	TSB3010	ZURN	Z841M1-RC	MCGUIRE	165LK	MCGUIRE	8902C	MAINLINE	ML101EZ	1/2"	1/2"	3"	1 1/2"	
S1	SINK	18X18" SINGLE BOWL 18-GUAGE STAINLESS STEEL UNDERMOUNT KITCHEN SINK. PROVIDE GOOSENECK FAUCET.	KOHLER	K-3335	DELTA	1959LF-BL	MCGUIRE	165LK	MCGUIRE	8912C	MAINLINE	ML101EZ	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TMV
S2	SINK	18X18" SINGLE BOWL 18-GUAGE STAINLESS STEEL UNDERMOUNT KITCHEN SINK. PROVIDE GOOSENECK FAUCET.	KOHLER	K-3335	DELTA	1959LF-AR	MCGUIRE	165LK	MCGUIRE	8912C	MAINLINE	ML101EZ	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TMV
S3	SINK	UNDERMOUNT DOUBLE BOWL 18 GAUGE STAINLESS STEEL SINK, 9-1/2" IN DEPTH, REAR DRAIN, PROVIDE BRUSHED NICKLE GOOSENECK FAUCET.	KOHLER	K-3171-HCF	DELTA	19939Z-SD-DST	MCGUIRE	165LK	MCGUIRE	8912C	MAINLINE	ML101EZ	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TMV
S4	SINK	15X20" UNDERMOUNT KITCHEN SINK IN IVORY WHITE WITH A SATIN FINISH. PROVIDE GOOSENECK ARTIC STAINLESS FAUCET.	LG HAUSYS	2318	DELTA	1959LF-AR	MCGUIRE	165LK	MCGUIRE	8912C	MAINLINE	ML101EZ	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TMV
S5	SINK	27" STAINLESS STEEL SINGLE BOWL LAUNDRY SINK. 8" OFFSET, 16 GUAGE STAINLESS STEEL. PROVIDE GOOSENECK FAUCET	LG HAUSYS	1517	DELTA	1959LF-AR	MCGUIRE	165LK	MCGUIRE	8912C	MAINLINE	ML101EZ	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TMV
S6	SINK	18X18" SINGLE BOWL 18-GUAGE STAINLESS STEEL UNDERMOUNT KITCHEN SINK. PROVIDE GOOSENECK FAUCET.	SIGNATURE HARDWARE	934482	T&S BRASS AND BRON	IZE PB-8WOSN14FZKZ		165LK	MCGUIRE	8912C	MAINLINE	ML101EZ	1/2"	1/2"	1 1/2"	2"	PROVIDE TMV
SH1	SHOWER	SHOWER TRIM TO BE FURNIGHED BY OTHERS, SEE ARCHITECTURE FOR TRIM DETAILS. DRIAN, TMV, AND SHOWER HEADS TO BE PROVIDED BY PLUMBING CONTRACTOR. PROVIDE DELTA 570147 AND ASSOCIATED HARDWARE. ALL HARDWARE FINISH TO BE A BRUSHED NICKEL.	BY OTHERS		DELTA	117238					DELTA	R10000-UN	1/2"	1/2"	2"	1 1/2"	
SH2	SHOWER	ADA SHOWER TRIM TO BE FURNIGHED BY OTHERS, SEE ARCHITECTURE FOR TRIM DETAILS. DRIAN, TMV, AND SHOWER HEADS TO BE PROVIDED BY PLUMBING CONTRACTOR. PROVIDE DELTA 570147 AND ASSOCIATED HARDWARE. ALL HARDWARE FINISH TO BE A BRUSHED NICKEL.	BY OTHERS		DELTA	T17238					DELTA	R10000-UN	1/2"	1/2"	2"	1 1/2"	
SH3	SHOWER	SOLID SURFACE SHOWER SURROUND. ADA COMPLIANT, 36"X36" INSIDE CLEAR. SEE ARCHITECTURE FINISH LEGEND FOR COLORING.	INPRO	36X36	DELTA	T17238							1/2"	1/2"	2"	1 1/2"	ONLY PROVIDE SHOWER HEAD AND TRIM
SH4	SHOWER	SOLID SURFACE SHOWER SURROUND. ADA COMPLIANT, 36"X36" INSIDE CLEAR. SEE ARCHITECTURE FINISH LEGEND FOR COLORING.	INPRO	36X36	DELTA	T17238							1/2"	1/2"	2"	1 1/2"	ONLY PROVIDE SHOWER HEAD AND TRIM
UR1	URINAL	SIPHON-JET, WALL HUNG, WHITE VITREOUS CHINA, ¾ TOP SPUD. INCLUDES INLET AND OUTLET SPUDS AND HANGERS, FLUSH VALVE MANUAL DIAPHRAGM TYPE, FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD, 0.5 GALLON FLUSH	KOHLER	K-4989-T	SLOAN	ROYAL 186-0.5-SG	N/A	N/A	N/A	N/A	N/A	N/A	3/4"	0"	2"	1 1/2"	
UR2	URINAL	SIPHON-JET, WALL HUNG, WHITE VITREOUS CHINA, ¾ TOP SPUD. INCLUDES INLET AND OUTLET SPUDS AND HANGERS, FLUSH VALVE MANUAL DIAPHRAGM TYPE, FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD, 0.5 GALLON FLUSH, ADA COMPLIANT.	KOHLER	K-4989-T	SLOAN	ROYAL 186-0.5-SG	N/A	N/A	N/A	N/A	N/A	N/A	3/4"	0"	2"	1 1/2"	17" TO RIM MAX HEIGHT
WC1	WATER CLOSET	SIPHON-JET, WALL HUNG, ELONGATED BOWL, WHITE VITRIOUS CHINA, 1-1/2" TOP SPUD. FLUSH VALVE MANUAL DIAPHRAGM TYPE, FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD, 1" SCREWDRIVER BACK CHECK ANGLE STOP, 1.28 GALLON FLUSH. SEAT: OPEN FRONT SEAT FOR ELONGATED BOWL, NO COVER, STAINLESS STEEL HINGE WTH CHECK, COLOR WHITE	AMERICAN STANDARD	2856.128	SLOAN	ROYAL 111-1.28-SF	N/A	N/A	N/A	N/A	CHURCH	295CT	1"	0"	4"	2"	

![](_page_160_Figure_1.jpeg)

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	PLUMBING SPECIALTIES SCHEDULE												
	UNIT DATA BASIS OF DESIGN												
TAG	FUNCTION	DESCRIPTION	MANUFACTURER	MODEL	SCHEDULE NOTES								
TD1	TRENCH DRAIN	TRENCH DRAIN SYSTEM 16.25' LONG CENTERED IN THE DUGOUT. PROVIDE ADA/HEEL PROOF STAINLESS STEEL GRATE.	ACO	K100S	GRATE TYPE 410Q #98866 39"								
TD2	TRENCH DRAIN		ACO	K100S	GRATE TYPE 412Q # 98879 19"								
TD3	TRENCH DRAIN	TRENCH DRAIN SYSTEM 11.6'L X 1'W CENTERED BEHIND THE WASHERS. PROVIDE STAINLESS STEEL GRATE, LINEN SCREEN AND WATERPROOFING MEMBRANE.	ACO	S300K									
TD4	TRENCH DRAIN	TRENCH DRAIN SYSTEM 6' LONG CENTERED BETWEEN THE TWO WALLS. BOTTOM OUTLET CLOSEST TO WALL. PROVIDE ADA/HEEL PROOF STAINLESS STEEL GRATE.	ACO	K100S	GRATE TYPE 410Q #98866 39"								
TD5	TRENCH DRAIN	TRENCH DRAIN SYSTEM 12'L X 1'W CENTERED WITH THE WATER SOFTENER. PROVIDE STAINLESS STEEL GRATE, LINEN SCREEN AND WATERPROOFING MEMBRANE.	ACO	S300K									

							WA	ATER	SOFTEN	ER SC	HEDULE							
		UNIT DAT	A	BASIS	OF DESIG	N		PERFO		DATA		CAPA SALT D	CITY / OSAGE	ELECT		TA GENE	RAL DATA	
$\frown$	TAG I			MANUFACTU		ODEL (F	OMING C DNESS PPM)	ONTINU FLOW (GPM)	OUS PEAK / FLOW ) (GPM)	WPD (PSIG)	BACK WASH FLOW (GPM)	MIN (LBS)	MAX (LBS)			TANK I TS (IN)	DIA WEIGHT (LBS)	SCHEDULE NOTES
Ŷ	Y	ŶŸŶ	SOFTENING	Y Y	Υ Υ	01 <b>Y Y</b>	Ŷ	Ŷ	Ŷ	Y Y	Ŷ	Ŷ.	Ŷ	Ŷ	Ŷ Ŷ	Υ	ŶŶŶ	
								PUMF	<b>SCHED</b>	ULE								
	UNIT D	ATA		BASIS OF DES	IGN		PERFOR	MANCE	DATA			МОТ	OR DAT	A		GENEF	RAL DATA	
		FUNCTIO		FACTURER	MODEL	PUMP TYPE	FLUID TYPE	FLOW (GPM)	EXT WPC (FT HD)	0 EWT (°F) H		PHASE V		/FD F	ERGENCY POWER	REDUNDA	NT (LBS)	SCHEDULE NOTES
RCP1 M RCP2 M	IECH ROOM	EWH1 SYST	EM XY EM XY	LEM B & G	PL36B PL36B	CIRCULATOR CIRCULATOR	HOT WATER	2.0	33.0	124.0 C 124.0 C	0.17 <u>3300</u> 0.17 <u>3300</u>	1	115 115	No No	No No	No No	0	
							⁄gas	FIRE	d watei	RHEA	ter sch	IEDUC	É					
$\overline{}$	GV GV	Type Mark			TION ATER	BASIS C MANUFACTU A. O. SMITH	RER MC	N S C DDEL 1-300A 1-300A	PER TORAGE R APACITY (GAL) 119.0	FORMAN ECOVER 100°F RIS (GAL/HR 349.0 349.0	CE DATA Y @ INPI SE CAPA (MB 300. 300.		GEN FL EFF SI (%) (II 96 2	IERAL D UE V ZE CON N)	ATA VATER INECTION (IN) 1 1/2"	<b>ELECTRI</b> <b>AMPS VO</b> 10 11 10 11	CAL DATA LTS PHASE	
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	٦ ا	2				BASIS O	F DESIGN		PF	REORMA			F					
F NOTES	$\left  \right\rangle$	}	TAG	FUNCTIO	DN N	IANUFACTUR	ER MO	) DEL	STORAGE I CAPACITY (GAL)	RECOVEF 100°F RI (GAL/H	RY @ WA SE CONN R) (	ATER ECTION IN)	FLA	APACITY (KW)	, VOLTS F	PHASE	SCHED	ULE NOTES
	Ţ	ζ	EWH1	VISITORS JANITOR		A. O. SMITH		N-120	119.0	41.0		3/4"		10.0	208	3 TWO	5 KW ELEMENTS-S	
	)											FYPA		ΝΤΔΝ				
	)	<u>/2</u>								ΤΔ	BASIS				PFRF		ΠΔΤΔ	
								1			IANUFACTU	JRER	MODEL	TA VOL . (G	NK ACC UME V AL)	EPTANCE OLUME (GAL)	AIR PRECHARGE (PSIG)	SCHEDULE NOTES
	$\sim$	$\sim$	$\gamma \gamma \gamma$	$\sim$	$\frown$	$\overline{}$	$\frown$				AMTROL	$\overline{}$	ST-60VC		5.0	11.0 3.2	55.0	
, ,						THE	RMOS	TATIC	MIXING	VALVE	E SCHED	ULE						
≻ TYPI ( MAR	E K LOCA	TION FUN		NUFACTURER	MODEI	MIN FLOW L (GPM)	MAX FLOW (GPM)	FLOW (GPM)	WPD (PSI)	LWT (°	INLET F) SIZE (IN	OUTL	ET IN) PH	IASE	VOLTS		SCHEDULE	NOTES
TMV1	MECH	ROOM GWH	SYSTEM ARMST SYSTEM ARMST	RONG INTERNATIONA RONG INTERNATIONA	L DRV40 L DRV25R	5 GPM 2 GPM	56 GPM 22 GPM	56 GPM 22 GPM	7.50 psi 7.00 psi	130 °F 130 °F	1 1/2" 1"	1 1/2	"	1 1	120 V 120 V			
r			くし	$\mathcal{M}$	$\sim$		$\sim$	$\sim$					く~	く~		$\sim$		

![](_page_160_Picture_8.jpeg)

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SHEET NUMBER

JECT NUMBER 60590790 SHEET TITLE PLUMBING SCHEDULES

2	12/12/2019	ADDENDUM 2						
I/R	DATE	DESCRIPTION						
PR	PROJECT NUMBER							

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![](_page_160_Picture_13.jpeg)

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THE HERD

Stadium

![](_page_160_Picture_34.jpeg)

PROJECT Marshall University Baseball

![](_page_161_Figure_0.jpeg)

![](_page_161_Picture_3.jpeg)

**PROJECT NUMBER** 

60590790 SHEET TITLE DUGOUT LEVEL LIGHTING PLAN - AREA A

2 12/12/2019 ADDENDUM 2 I/R DATE DESCR DESCRIPTION

![](_page_161_Figure_7.jpeg)

![](_page_161_Figure_8.jpeg)

**KEY PLAN** 

![](_page_161_Picture_10.jpeg)

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Lenexa, KS 66214

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AECOM

150 Clay St., Suite 410

CLIENT

![](_page_161_Picture_31.jpeg)

THE HERD

ΑΞΟΟΜ

![](_page_162_Figure_0.jpeg)

![](_page_162_Picture_1.jpeg)

60590790 SHEET TITLE DUGOUT LEVEL LIGHTING PLAN - AREA B

2 12/12/2019 ADDENDUM 2 I/R DATE DESCR DESCRIPTION

**ISSUE/REVISION** 

![](_page_162_Figure_6.jpeg)

KEY PLAN

![](_page_162_Picture_8.jpeg)

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Marshall University

1 John Marshall Drive ARCHITECT

![](_page_162_Picture_31.jpeg)

![](_page_162_Picture_33.jpeg)

![](_page_163_Figure_0.jpeg)

![](_page_163_Picture_1.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_163_Picture_4.jpeg)

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REGISTRATION

STATE OF CONSTRUCTION **DOCUMENTS** -**BID SET** 

11/15/19

ſRU PROJECT NORTH Ε / D

![](_page_163_Figure_20.jpeg)

**PROJECT NUMBER** 60590790 SHEET TITLE CONCOURSE LEVEL LIGHTING

SHEET NUMBER

E102A

![](_page_164_Figure_0.jpeg)

![](_page_164_Picture_2.jpeg)

**PROJECT NUMBER** 

60590790 SHEET TITLE CONCOURSE LEVEL LIGHTING PLAN - AREA B

212/12/2019ADDENDUM 2I/RDATEDESCRIPTION

**ISSUE/REVISION** 

KEY PLAN

![](_page_164_Figure_7.jpeg)

11/15/19

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CLIENT Marshall University 1 John Marshall Drive

THE HERD

![](_page_164_Picture_38.jpeg)

PROJECT Marshall Baseball Electrical

AECOM

![](_page_165_Figure_0.jpeg)

![](_page_165_Picture_2.jpeg)

(R2)

R1

![](_page_165_Picture_5.jpeg)

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SHEET NUMBER

**PROJECT NUMBER** 

60590790

SHEET TITLE CONCOURSE LEVEL LIGHTING PLAN - AREA C

2 12/12/2019 ADDENDUM 2 I/R DATE DESCR DESCRIPTION

**ISSUE/REVISION** 

![](_page_165_Figure_10.jpeg)

**KEY PLAN** 

![](_page_165_Picture_12.jpeg)

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Marshall Baseball Electrical THE HERD

![](_page_165_Picture_28.jpeg)

![](_page_166_Figure_0.jpeg)

ΑA

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9 9.2	10 10.2	10.8 (11)	
CORRIDOR 3.L9.04	COACHES CORRIDOR 3.L9.03		
E0LLL-5 1LHL-6 1LHL-6 R5 R5 R5 R5 R5 R5 R5 R5 R5 R5	-6 R5 R5 E0LLL-5 -6 R5 R5 R5 R5 R5 R5 R5 R5 R5 R5	E0LLL-5 6 R5 CS HL-6 R5 R5 R5 R5 R5 R5 R5 R5 R5 R5	
1LHL-5 1LHL-5 1LHL-5 E0LLL-5 0 R2 R2 R2 R2 \$ D 1LHL-5 1LHL-5 1LHL-5 1LHL-5 1LHL-5 1LHL-5 1LHL-5 1LHL-5 1LHL-5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	DS 1LHL-5 1LHL-5 1LHL-5	
ASSISTANT	R3     R3     R3     R3       1LHL-5     1LHL-5     1LHL-5     1LHL-5       R5     R5     R5     R5       1LHL-5     1LHL-5     1LHL-5       R5     R5     R5       1LHL-5     1LHL-5       R5     R5       R5     R5	R3     R3       E0LLL-5     1LHL-5       R5     R5       1LHL-5     1LHL-5       1LHL-5     R5       1LHL-5     R5	
COACH'S OFFICE 3.L9.01	ASSISTANT ASSISTANT COACH'S OFFICE OFFICE 3.L10.01	) E )2	

![](_page_166_Figure_2.jpeg)

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![](_page_166_Picture_6.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_166_Picture_9.jpeg)

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11/15/19

KEY PLAN \C Ε / D

![](_page_166_Picture_23.jpeg)

**ISSUE/REVISION** 

![](_page_166_Figure_25.jpeg)

**PROJECT NUMBER** 

60590790

SHEET TITLE PRESS LEVEL LIGHTING PLAN -

AREA A

SHEET NUMBER

E103A

![](_page_167_Figure_0.jpeg)

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![](_page_167_Picture_2.jpeg)

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SHEET NUMBER

**PROJECT NUMBER** 

60590790 SHEET TITLE PRESS LEVEL LIGHTING PLAN -AREA B

2 12/12/2019 ADDENDUM 2 I/R DATE DESCR DESCRIPTION

![](_page_167_Figure_7.jpeg)

KEY PLAN

![](_page_167_Picture_9.jpeg)

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Kansas City, MO 64108

CLIENT

PROJECT Marshall Baseball Electrical

![](_page_167_Picture_37.jpeg)

![](_page_167_Picture_38.jpeg)

![](_page_168_Figure_0.jpeg)

![](_page_168_Picture_3.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_168_Picture_6.jpeg)

**CLIENT** Marshall University 1 John Marshall Drive Huntington, WV 25755 HTTP://MARSHALL.EDU

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KEY PLAN

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11/15/19

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![](_page_168_Figure_21.jpeg)

SHEET NUMBER

**PROJECT NUMBER** 

DUGOUT LEVEL POWER PLAN -

60590790

AREA A

SHEET TITLE

E201A

![](_page_169_Figure_0.jpeg)

![](_page_169_Picture_3.jpeg)

**PROJECT NUMBER** 

60590790 SHEET TITLE **DUGOUT LEVEL POWER PLAN -**AREA B

2 12/12/2019 ADDENDUM 2 I/R DATE DESCR DESCRIPTION

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![](_page_169_Figure_8.jpeg)

KEY PLAN

![](_page_169_Picture_10.jpeg)

11/15/19

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ARCHITECT

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CLIENT Marshall University

![](_page_169_Picture_34.jpeg)

AEC

![](_page_170_Figure_0.jpeg)

![](_page_170_Picture_1.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_170_Picture_4.jpeg)

CLIENT Marshall University 1 John Marshall Drive Huntington, WV 25755 HTTP://MARSHALL.EDU

ARCHITECT AECOM 2380 McGee St., #200 Kansas City, MO 64108 HTTP://AECOM.COM

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STATE OF CONSTRUCTION **DOCUMENTS** -**BID SET** 

11/15/19

KEY PLAN

![](_page_170_Figure_18.jpeg)

**ISSUE/REVISION** 

![](_page_170_Figure_20.jpeg)

**PROJECT NUMBER** 60590790

SHEET TITLE

SHEET NUMBER

![](_page_171_Figure_0.jpeg)

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![](_page_171_Picture_3.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_171_Picture_6.jpeg)

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KEY PLAN

![](_page_171_Figure_22.jpeg)

2 12/12/2019 ADDENDUM 2 I/R DATE DESCR DESCRIPTION

SHEET NUMBER

E202B

**PROJECT NUMBER** 

CONCOURSE LEVEL POWER

60590790

SHEET TITLE

PLAN - AREA B

![](_page_172_Figure_0.jpeg)

### **GENERAL NOTES**

R1

- A. REFER TO ELECTRICAL EQUIPMENT SCHEDULES FOR OVERHEAD DOORS, FLOOR BOXES, ACCESS CONTROL,
- MECHANICAL CONNECTIONS AND ASSOCIATED CONTROLS. B. SEE SITE PLAN FOR PROPOSED UTILITY CONDUIT ROUTING.

![](_page_172_Picture_4.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_172_Picture_7.jpeg)

CLIENT Marshall University 1 John Marshall Drive Huntington, WV 25755 HTTP://MARSHALL.EDU

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11/15/19

KEY PLAN

![](_page_172_Figure_22.jpeg)

2 12/12/2019 ADDENDUM 2 I/R DATE DESCR DESCRIPTION

**PROJECT NUMBER** 60590790 SHEET TITLE CONCOURSE LEVEL POWER

PLAN - AREA C

SHEET NUMBER

E202C

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1

![](_page_173_Figure_0.jpeg)

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KEY PLAN

![](_page_173_Figure_21.jpeg)

212/12/2019ADDENDUM 2I/RDATEDESCRIPTION **PROJECT NUMBER** 60590790

SHEET TITLE PRESS LEVEL POWER PLAN -AREA A

SHEET NUMBER

E203A

![](_page_174_Figure_0.jpeg)

![](_page_174_Picture_2.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_174_Picture_5.jpeg)

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KEY PLAN TRUE \C PROJECT NORTH E D

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![](_page_174_Figure_22.jpeg)

SHEET NUMBER

**PROJECT NUMBER** 

60590790

AREA B

SHEET TITLE

E203B

PRESS LEVEL POWER PLAN -

![](_page_175_Figure_0.jpeg)

![](_page_175_Figure_1.jpeg)

ITEM NO.	EQUITMENT DESCRIPTION	VOLTAGE	PHASE	LOAD	PANEL	CIRCUIT NUMBER	Comments
34	WORK TABLE W/ SINK	120 V	1	1920 VA	1HLF	1	
47.4	MOBILE HOLDING CABINET	120 V	1	1920 VA	1HLF	2	
49	WALK-IN COOLER	120 V	1	1920 VA	E0LLF	4	LIGHTS, DOOR HEATER, ALARM
49	WALK-IN COOLER	120 V	1	1920 VA	E0LLF	8	LIGHTS, DOOR HEATER, ALARM
49.1	EVAPORATOR - COOLER SECTION	120 V	1	1200 VA	E0LLF	6	
49.2	COMPRESSOR - COOLER	208 V	3	2810 VA	E0LLF	7,9,11	LOCATED ON ROOF
101	ICE/SODA STATION	120 V	1	1440 VA	1HLF	4	
101	ICE/SODA STATION	120 V	1	1440 VA	1HLF	6	
103	PIZZA PREP REFRIGERATOR	120 V	1	1440 VA	1HLF	8	
105.1	WARMER, DRAWER TYPE	120 V	1	900 VA	1HLF	3	
105.1	WARMER, DRAWER TYPE	120 V	1	900 VA	1HLF	10	
105.1	WARMER, DRAWER TYPE	120 V	1	900 VA	1HLF	5	
105.1	WARMER, DRAWER TYPE	120 V	1	900 VA	1HLF	12	
106	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1HLF	7	
106	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1HLF	14	
106	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1HLF	9	
106	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1HLF	16	
106	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1HLF	18	
106	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1HLF	11	
114	PRETZEL CABINET	120 V	1	1440 VA	1HLF	13	
115.1	POPCORN POPPER	120 V	1	1920 VA	1HLF	20	
116	BOTTLED BEVERAGE REFRIGERATOR - ONE DOOR	120 V	1	1920 VA	1HLF	15	
116.1	BOTTLED BEVERAGE REFRIGERATOR - ONE DOOR	120 V	1	864 VA	1HLF	22	
116.1	BOTTLED BEVERAGE REFRIGERATOR - ONE DOOR	120 V	1	864 VA	1HLF	17	
117	NACHO CHEESE DISPENSER	120 V	1	600 VA	1HLF	24	
117	NACHO CHEESE DISPENSER	120 V	1	600 VA	1HLF	19	
130	HEATED DISPLAY CASE	208 V	1	2120 VA	1HLF	37,39	
135.1	CONVEYOR OVEN	208 V	3	18700 VA	1HLF	26,28,30	
153	MOBILE WORK TABLE	120 V	1	1920 VA	1HLF	21	
170	PIZZA PREP REFRIGERATOR	120 V	1	804 VA	1HLF	23	
636	COUNTERTOP STEAMER	208 V	3	11889 VA	1HLF	25.27.29	

Scale: 1/4" = 1'-0"

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**R5** 

![](_page_175_Figure_5.jpeg)

### **CONCESSIONS 2.R8.01 ENLARGED POWER PLAN** 3 E202C Scale: 1/4" = 1'-0"

	EQUITMENT DESCRIPTION	VOLTAGE	FRAJE	LUAD	FANEL		Comments		
7.4	MOBILE HOLDING CABINET	120 V	1	1920 VA	1RLF	1			
17.4	MOBILE HOLDING CABINET	120 V	1	1920 VA	1RLF	2			
70	WORK TABLE W/ SINK	120 V	1	1920 VA	1RLF	3			
01	ICE/SODA STATION	120 V	1	1440 VA	1RLF	5			
01	ICE/SODA STATION	120 V	1	1440 VA	1RLF	4			
01	ICE/SODA STATION	120 V	1	1440 VA	1RLF	6			
03	SODA SYSTEM	120 V	1	1440 VA	1RLF	7			
05.1	WARMER, DRAWER TYPE	120 V	1	900 VA	1RLF	8			
05.1	WARMER, DRAWER TYPE	120 V	1	900 VA	1RLF	9			
05.1	WARMER, DRAWER TYPE	120 V	1	900 VA	1RLF	10			
05.1	WARMER, DRAWER TYPE	120 V	1	900 VA	1RLF	11			
06	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1RLF	12			
06	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1RLF	17			
06	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1RLF	16			
06	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1RLF	13			
06	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1RLF	14			
06	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	1RLF	15			
08	MENU BOARD	120 V	1	1920 VA	1RLF	18			
08	MENU BOARD	120 V	1	1920 VA	1RLF	19			
10	REACH-IN REFRIGERATOR - TWO DOOR	120 V	1	780 VA	1RLF	20			
14	PRETZEL CABINET	120 V	1	1440 VA	1RLF	21			
14	PRETZEL CABINET	120 V	1	1440 VA	1RLF	22			
14.1	PRETZEL WARMER	120 V	1	1920 VA	1RLF	23			
15.1	POPCORN POPPER	120 V	1	1920 VA	1RLF	24			
15.1	POPCORN POPPER	120 V	1	1920 VA	1RLF	25			
16	BOTTLED BEVERAGE REFRIGERATOR - ONE DOOR	120 V	1	1920 VA	1RLF	26			
16.1	BOTTLED BEVERAGE REFRIGERATOR - ONE DOOR	120 V	1	864 VA	1RLF	27			
16.1	BOTTLED BEVERAGE REFRIGERATOR - ONE DOOR	120 V	1	864 VA	1RLF	28			
17	NACHO CHEESE DISPENSER	120 V	1	600 VA	1RLF	29			
17	NACHO CHEESE DISPENSER	120 V	1	600 VA	1RLF	30			
70	PIZZA PREP REFRIGERATOR	120 V	1	804 VA	1RLF	31			
70	PIZZA PREP REFRIGERATOR	120 V	1	804 VA	1RLF	32			
57	PORTABLE GRILL	208 V	3	1800 VA	1RLF	38,40,42			
57	PORTABLE GRILL	208 V	3	1800 VA	1RLF	44,46,48			
56	POPCORN POPPER	120 V	1	1920 VA	1RLF	33			
84	WORKTOP REFRIGERATOR	120 V	1	1476 VA	1RLF	34			
36	COUNTERTOP STEAMER	208 V	3	11889 VA	1RLF	37,39,41			
367.1	BAGGED ICE CABINET	120 V	1	972 VA	1RLF	35			

![](_page_175_Figure_8.jpeg)

E201A Scale:	E
FOOD SERVICE STORAGE 1.L11.03	
I NO. EQUITMENT DESCRIPTION VOLTAGE	ITEM NO.
MOBILE WORK TABLE 120 V	08
MOBILE WORK TABLE 120 V	08
MOBILE WORK TABLE 120 V	08
WALK-IN COOLER/FREEZER 120 V	24
WALK-IN COOLER/FREEZER 120 V	24
EVAPORATOR - COOLER SECTION 120 V	24.1
EVAPORATOR - FREEZER SECTION 208 V	24.3
FREEZER DRAIN LINE HEAT TRACE 120 V	24.5
REFRIGERATION COMPRESSOR RACK     208 V	39
MOBILE HOLDING CABINET 120 V	47.4
MOBILE HOLDING CABINET 120 V	47.4
MOBILE HOLDING CABINET 120 V	47.4
MOBILE HOLDING CABINET 120 V	47.4
BAGGED ICE CABINET 120 V	667

![](_page_175_Figure_11.jpeg)

![](_page_175_Figure_12.jpeg)

### PANTRY 3.L7.01 ENLARGED POWER PLAN Scale: 1/4" = 1'-0"

	PANTRY 3.L7.01 EQUIPMENT CONNECTION SCHEDULE								
ITEM NO.	EQUITMENT DESCRIPTION	VOLTAGE	PHASE	LOAD	PANEL	CIRCUIT NUMBER	Comments		
36.8		120 V	1	1800 VA	2HI F	8			
47.4	MOBILE HOLDING CABINET	120 V	1	1920 VA	2HLF	1			
47.4	MOBILE HOLDING CABINET	120 V	1	1920 VA	2HLF	2			
103	SODA SYSTEM	120 V	1	1440 VA	2HLF	6			
106	CASH REGISTER/POS SYSTEM	120 V	1	600 VA	2HLF	5			
110	REACH-IN REFRIGERATOR - TWO DOOR	120 V	1	780 VA	2HLF	11			
147	BAR GUN	120 V	1	600 VA	2HLF	4			
164	BACK BAR COOLER - TWO DOOR	120 V	1	300 VA	2HLF	3			
165.4	ICE MAKER, REMOTE	208 V	1	2246 VA	2HLF	7,9			
165.4C	ICE MACHINE CONDENSER	208 V	1	1920 VA	2HLF	15,17	LOCATED ON GROUND LEVEL		
420	MICROWAVE CONVECTION/IMPINGEMENT OVEN	208 V	1	4992 VA	2HLF	10,12			

![](_page_175_Picture_15.jpeg)

ENLARGED POWER PLANS

60590790 SHEET TITLE

**PROJECT NUMBER** 

2	12/12/2019	ADDENDUM 2
I/R	DATE	DESCRIPTION

## **ISSUE/REVISION**

![](_page_175_Picture_21.jpeg)

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![](_page_175_Picture_48.jpeg)

![](_page_175_Picture_50.jpeg)

![](_page_176_Figure_0.jpeg)

![](_page_176_Picture_1.jpeg)

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**PROJECT NUMBER** 

60590790 SHEET TITLE DUGOUT LEVEL FIRE ALARM PLAN - OVERALL

2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION

### **ISSUE/REVISION**

![](_page_176_Figure_6.jpeg)

**DOCUMENTS** -**BID SET** 

KEY PLAN

![](_page_176_Picture_8.jpeg)

CONSTRUCTION

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PROJECT

![](_page_176_Picture_29.jpeg)

![](_page_176_Picture_31.jpeg)

![](_page_177_Figure_0.jpeg)

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![](_page_177_Picture_9.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_177_Picture_12.jpeg)

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REGISTRATION

![](_page_177_Picture_23.jpeg)

11/15/19

KEY PLAN

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ISS	ISSUE/REVISION							
2	12/12/2019	ADDENDUM 2						
I/R	DATE	DESCRIPTION						

**PROJECT NUMBER** 60590790 SHEET TITLE

CONCOURSE LEVEL FIRE ALARM

PLAN - OVERALL

SHEET NUMBER

E402

![](_page_178_Figure_0.jpeg)

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(R5)

 $(\mathbf{R4})$ 

( E )

I

2

SCOREBOARD

SOUND / REPLAY 3.L1.04

SS L

WORKROOM

3.R2.01

\_/ \_\_\_ \_ \_

CAMERA 3.L1.01

1

CORRIDOR

HOME RADIO 3.L2.05

VISITING

3.R1.02

RADIO

PS L

SS

\_\_\_\_\_

 $\bigcirc PRESS LEVEL FIRE ALARM PLAN - OVERALL$ 1" = 20'-0"

· •

FAAP

3.R1.01

STUDENT RADIO

3.R1.03

EMERITUS /

VIS. AD SUITE

3.R1.04

WRITING PRESS

3.R3.01

(R6)

TV BOOTH

L

3.L1.02

	3				1		5			6	7	7.8	8	8.5	9 9.2		)1
R7	TLT 3.L2.02	H		н				CLU ME F 3	IB / TEAM EETING ROOM B.L6.01		PANTRY 3.L7.01		WOR BREAK / 3.L8.0	K / AREA 04		COACHES CORRIDOR 3.L9.03	
	SSPS		DUTDÕOR CLUB 3.L3.01							SS							
	TLT 3.L2.01		IDF ROOM 3.L2.03	1 	SUITE 1	SUITE 2		ΓE 3	SUITE		 MENS TL	T	WOMENS	ASSISTANT COACH'S - OFFICE 31803	ASSISTANT COACH'S OFFICE 319.01	ASSISTANT COACH'S OFFICE	
OFFICIAL SCORER 3.L1.03					3.L4.01	3.L4.02	3.Lt	5.01	3.L5.0	02     	 0.20.01		3.L0.02	3.10.03	3.1.9.01	<u>3.L9.02</u>	

![](_page_178_Figure_92.jpeg)

I

![](_page_178_Figure_96.jpeg)

![](_page_178_Picture_99.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_178_Picture_102.jpeg)

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![](_page_178_Picture_113.jpeg)

11/15/19

**KEY PLAN** 

XC PROJECT NORTH × e× Ø

ISSUE/REVISION

133									
2	12/12/2019	ADDENDUM 2							
I/R	DATE	DESCRIPTION							

PRESS LEVEL FIRE ALARM PLAN
- OVERALL

1

SHEET NUMBER

**PROJECT NUMBER** 

SHEET TITLE

60590790

E403

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![](_page_179_Figure_0.jpeg)

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![](_page_179_Figure_3.jpeg)

![](_page_179_Figure_4.jpeg)

![](_page_179_Figure_5.jpeg)

![](_page_179_Figure_6.jpeg)

![](_page_179_Figure_7.jpeg)

A FLOOR SLAB PENETRATION DETAIL NTS

A LUMINAIRE MOUNTED ON EXTERIOR WALL

- PROVIDE SEISMICALLY ENGINEERED STEEL C-CHANNEL SPANNING AROUND THE VOID OR OBSTRUCTION AND SECURE THE FIXTURES SUPPORT ROD TO THE STEEL CHANNEL.
- B. AIRCRAFT CABLE, CABLE FITTINGS, CANOPIES, CORD STRAIN RELIEF FITTING AND SEISMIC RESTRAINT BRACKET SHALL BE FURNISHED BY THE FIXTURE MANUFACTURER.
- C. FIXTURE SUPPORTS SHALL BE DESIGNED FOR A MINIMUM ULTIMATE LOAD OF 300 POUNDS EACH OR TWICE THE FIXTURE WEIGHT, WHICHEVER IS GREATER.

A SUSPENDED LIGHTING FIXTURES MOUNTING DETAIL

![](_page_179_Picture_14.jpeg)

PROJECT

Marshall Baseball Electrical

![](_page_179_Picture_17.jpeg)

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23702 STATE OF CONSTRUCTION **DOCUMENTS** -**BID SET** 

11/15/19

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2	12/12/2019	ADDENDUM 2
I/R	DATE	DESCRIPTION

**PROJECT NUMBER** 60590790 SHEET TITLE **ELECTRICAL DETAILS** 

SHEET NUMBER

E502

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## **GENERAL NOTES**

- REFER TO SHEET E902 FOR CORRESPONDING FEEDER Α. SCHEDULE.
- LARGER LUGS OR TAP BOXES TO BE USED IF WIRE IS В. SIGNIFICANTLY UPSIZED DUE TO VOLTAGE DROP.

## **KEYNOTES**

- PAD MOUNTED UTILITY TRANSFORMER PROVIDED BY AEP. 1 COORDINATE PAD REQUIREMENTS, OPENINGS, ETC. WITH UTILITY. PROVIDE CABLE TERMINATIONS AT SECONDARY SIDE OF TRANSFORMER.
- 2 DO NOT BOND NEUTRAL AT GENERATOR. NOT A
- SEPARATELY DERIVED SOURCE. CT CABINET PROVIDED BY CONTRACTOR IN ACCORDANCE 3
- WITH AEP REQUIREMENTS. 4 PROVIDE LOCKABLE CIRCUIT BREAKER.

MDP	
TS	27985 VA
RANSFORMER TL	414600 VA
RANSFORMER TH	163118 VA
RANSFORMER TR	89448 VA
HL	8398 VA
HL	63358 VA
RHL	54059 VA
HM	710027 VA
.HR	36332 VA
VOLT AMPERES	1567325 VA
LT AMPERES	1094447 VA

## ELECTRICAL LOAD ESTIMATE

		1	
ION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD
	128800 VA	100.00%	128800 VA
	718598 VA	80.00%	574879 VA
	172037 VA	65.00%	111824 VA
	547890 VA	50.91%	278945 VA
RES	1567325 VA		1094447 VA
RES	1885 A		1316 A
ETERMINATION	N:		
(Lighting): 100% C): FIRST 10 kV/	6 OF CONNECTE A AT 100%, REM	D LOADS.	T 50%.

MOTOR LOADS (Motor): 80% OF CONNECTED LOADS.





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SHEET TITLE ELECTRICAL ONE-LINE DIAGRAM

60590790

I/R DATE DESCRIPTION **PROJECT NUMBER** 

2	12/12/2019	ADDENDUM 2
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THE HERD





# PRESS LEVEL 1LLR ELECT. / IDF 2.L11.03 1LLF CONCESSIONS 2.L10.02 L\_\_\_\_\_ 1LHL NORTHEAST TICKETING 2.L11.05 CONCOURSE LEVEL E0LLF FOOD SERVICE STORAGE 1.L11.03 E0LLI MDF 1.L11.06 LTG INV E0LLL ELEC ELEC 1.L11.05 1.L11.05 бс те E0LHD ELEC 1.L11.05 ATS ELEC 1.L11.05 - G DUGOUT LEVEL

# LEFT FIELD



PROJECT

Marshall Baseball Electrical



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2	12/12/2019	ADDENDUM 2
I/R	DATE	DESCRIPTION

PROJECT NUMBER 60590790 SHEET TITLE ELECTRICAL RISER DIAGRAM

SHEET NUMBER

E602

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PROJECT

Marshall Baseball Electrical



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**BID SET** 

11/15/19

KEY PLAN





ELECTRICAL SITE PLAN -STADIUM

**PROJECT NUMBER** 

60590790

SHEET TITLE

SHEET NUMBER

E831





LOCATION PRIOR TO ROUGH-IN.



PROJECT

Marshall Baseball Electrical



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PROJECT NUMBER
60590790
SHEET TITLE

ELECTRICAL SITE PLAN -PARKING

SHEET NUMBER

E832

<b>Canel Designation: OHLR</b> Location: JANITOR 1.R Supply From: OHLD Mounting: SURFACE Enclosure: PER SPECIFI	3.02 CATIONS					Pr	Volts: nases: Wires:	208/120 3 4	) Wye		A.I.C. Rating: 10 KAIC Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A				
lotes:															
CKT Circuit Description	Trip	Poles	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	Poles	Trip	Circuit Description	C			
1     EIH1 RELAY PANEL VISITING TEAM DUGOUT       3     1 P4 01	55 A	3	6.25	6.25			0.18			20 A	EIH1 CONROL POWER				
7 REC IT 1 JANITOR 1.R3.02	20 A	1	0.15	Ę	6.25	3.33		3.33	3	35 A	EWH1 JANITOR 1.R3.02				
9 REC ROOM 1.R3.02 11 RCP1	20 A 20 A	1		0.90	0.53		3.33	0.80	1	20 A	VISITING DUGOUT FIELD CAMERA				
13 REC EXTERIOR DUGOUT 15 SPARE	20 A 20 A	1	0.36	0.00	سسر	0.18	 0.00	uu	n in	20 A 20 A	TMV2 REC JANITOR 1.R3.02	بب			
17 SPARE	20 A	1	0.00		0.00	0.00		0.00	1	20 A	SPARE SPARE				
21 SPARE	20 A	1	0.00	0.00	0.00	0.00	0.00	0.00	1	20 A	SPARE SPARE				
25 SPARE	20 A	1	0.00	0.00	0.00	0.00	0.00	0.00	1	20 A	SPARE SPARE				
29 SPARE	20 A	1	0.00	0.00	0.00	0.00	0.00	0.00	1	20 A	SPARE SPARE				
33 SPARE	20 A	1	0.00	0.00	0.00	0.00	0.00	0.00	1	20 A 20 A	SPARE				
37 SPACE			0.00	0.00	0.00	0.00	0.00	0.00			SPACE				
41 SPACE			10.0	0.00	0.00		0.00	0.00			SPACE SPACE				
	Tota	al Load: I Amps:	10.3 85	3 kVA 5.6 A	10.7 89.	kVA 4 A	10.9 91.	kVA 4 A	_						
oad Classification	Conn 10	<b>ected L</b> )528 VA	oad	Dema {	<b>and Fa</b> 30.00%	ctor	Estir	nated [ 8422 \	<b>Demand</b> /A		Panel Totals				
EC	21	1320 VA		7	73.45%			15660	VA		Total Conn. Load:31848 VATotal Est. Demand:24082 VA				
											Total Est. Demand: 67 A				
Panel Designation: OLLM Location: MECH / PLUN Supply From: OLLD Mounting: SURFACE Enclosure: PER SPECIFI	IB 1.L9.02 CATIONS					Pr	Volts: nases: Wires:	208/120 3 4	) Wye		A.I.C. Rating: 10 KAIC Mains Type: MCB Mains Rating: 225 A MCB Rating: 225 A				
KT Circuit Description	Trip	Poles	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	Poles	Trip	Circuit Description	C			
13 AHU2	70 A	3	6.35	6.35	,y	0.06	0.06		2	15 A	COB1 CORRIDOR 3.L2.05				
5			1 37	5.00	6.35	0.06	2.00	0.06	2	15 A	COB2 CORRIDOR 3.L9.04	╞			
EF2 CONCESSIONS 2.R1.02	20 A	2	1.57	1.37	1.80	0.00	0.66	0.10	1	20 A	WS1 MECH / PLUMB 1.L9.02				
I3         EF6 MECH / PLUMB 1.L9.02	20 A	2	1.37	1.07	1.00	0.10	0.47	0.10	2	15 A	FC04 CORRIDOR 3.L9.04				
FC3 ELEC 1.L11.05	15 A	2	0.45	1.37	0.45	0.05	0.47	0.47	2	20 A	FC10 3.L2.05				
21 FC05, FC06, FC07, FC08 3.L5.02, 3.L5.01,	20 A	2	0.45	0.42	0.45	0.25	0.25	0.01	2	20 A	FC14, FC15, FC16 ROOM 3.L1.01, 3.R1.01, 3.R1.02				
25 FC11, FC12, FC13 ROOM 3.L1.04, 3.L1.03,	20 A	2	0.29	0.55	0.42	0.21	0.01	v.21	2	20 A	FC20, FC21 WRITING PRESS 3.R3.01				
27 5.E1.02 29 FC17, FC18, FC19 ROOM 3.R1.03, 3.R1.04, 2 R0.01	20 A	2	-	0.29	0.25	_	υ.94	0.94	3	20 A	MAU2 MECH / PLUMB 1.L9.02				
31 3.K2.01 33 GWH1 MECH / PLUMB 1.L9.02	20 A	1	0.25	0.60		0.94	0.60		1	20 A	GWH2 MECH / PLUMB 1.L9.02				
	20 A	1	6.25		0.53	0.18		0.60	1	20 A 20 A	IMV1 MECH / PLUMB 1.L9.02 EIH1 CONTROL POWER				
1.L4.01	55 A	3		6.25	6.25		1.37	1.37	2	20 A	EF5 WOMENS RESTROOM 2.R2.02				
H3 FC02 STO. 1.L11.07	15 A	2	0.45	0.45		0.04	0.04		2	20 A	FC03 ELECT. / IDF 2.L11.03				
COB3 STO. 1.L11.07	15 A	2	0.06		0.06	0.79		0.79	2	20 A	EF1 CONCESSIONS 2.L10.02				
51 53 EF4 TLT 3.L2.02	20 A	2		0.33	0.33		1.44	0.18	1	20 A 20 A	AHU1 BURNER CONNECTION MECH / PLUMB REC MECH / PLUMB 1.L9.02	. {			
55 REC MECH / PLUMB 1.L9.02 57 SPARE	20 A 20 A	1	0.18	0.00		0.00	0.00		1	20 A 20 A	SPARE SPARE	! !			
9 SPARE	20 A	1 al Load:	19.7	7 kVA	0.00 23.3	kVA	21.2	0.00 kVA	1	20 A	SPARE	(			
	Tota	I Amps:	163	3.8 A	195	.8 A	178	.3 A							
oad Classification lotor EC	Conn 41 22	ected L 1558 VA 2530 VA	oad	Dema 8 7	and Fa 30.00% 72.19%	ctor	Estir	nated E 33246 \ 16265 \	Demand VA VA		Panel TotalsTotal Conn. Load:64088 VATotal Est. Demand:49511 VATotal Conn.:178 ATotal Est. Demand:137 A				
Designation: OLHR Designation: OLHR Location: ELEC 1.L11.0 Supply From: MDP Mounting: SURFACE	20 A Tota Tota 0 41 22	al Load: I Amps: ected L 1558 VA 2530 VA	0ad	7 kVA 3.8 A Dema 8	0.00 23.3 195 and Fa 30.00% 72.19%	kVA .8 A ctor	21.2 178 Estin	480/277 3 4	Demand VA VA		SPARE         Panel Totals         Total Conn. Load:       64088 VA         Total Est. Demand:       49511 VA         Total Conn.:       178 A         Total Est. Demand:       137 A         A.I.C. Rating:       10 KAIC         Mains Type:       MCB         Mains Rating:       100 A				
otes:				B			в	6							
KT         Circuit Description           1         1	Trip	Poles	<b>(kVA)</b>	ы (kVA)	(kVA)	<b>A</b> (kVA) 1.08	ы (kVA)	(kVA)	Poles	Trip	Circuit Description	C			
3 REC DRYER LAUNDRY 1.L1.01	15 A	3		1.08	1.08		1.08	1.08	3	15 A	REC DRYER LAUNDRY 1.L1.01				
7 9 REC DRYER LAUNDRY 1.L1.01	15 A	3	1.08	1.08		1.66	1.66		3	15 A	REC WASHER LAUNDRY 1.L1.01	-			
11 13			1.66		1.08	1.66		1.66							
15 REC WASHER LAUNDRY 1.L1.01 17	15 A	3		1.66	1.66		1.66	1.66	3	15 A	REC WASHER LAUNDRY 1.L1.01				
19 SPARE 21 SPARE	20 A 20 A	1	0.00	0.00		3.88	3.88		3	25 A	TRASH COMPACTOR				
23 SPARE 25 SPARE	20 A 20 A	1	0.00	0.00	0.00	0.00	5.00	3.88	1	20 4	SPARE				
27 SPARE 29 SPARE	20 A 20 A	1	5.00	0.00	0.00	0.00	0.00	0.00	1 1	20 A	SPARE SPARE				
31 SPARE	20 A 20 A	1 1	0.00	0.00	0.00	0.00	0.00	0.00	1 1 1	20 A	SPARE SPARE				
35 SPARE 37 SPACE	20 A 20 A	1	0.00	0.00	0.00	0.00	0.00	0.00	1 	20 A	SPARE SPACE				
39 SPACE			0.00	0.00	0.00	0.00	0.00	0.00			SPACE SPACE				
TI SFACE	Tota	al Load:	12.1	1 kVA	0.00 12.1	kVA	12.1	U.00 kVA	 		SFACE				
and Classification	Tota	Amps:	43	0.7 A	43.	/ A	43.	/ A			Dawal Tatala				
oor	11 -	ected L 1640 VA	UdÜ	Dema {	and Fa 30.00%	ιυΓ	⊏stir	9312 \	/A						
	24	+092 VA		7	ru.25%			1/346	VA		Total Est. Demand:         26658 VA				
											Total Conn.: 44 A				

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all 7

| lote   | Location: FOOD SERVIC<br>Supply From: 0LLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC  | E STORA   
   | .GE 1.L1  
   
   | 1.03   |  
   |  | PI  | Volts: 2<br>nases: 2<br>Wires: 4  | 208/120<br>3<br>4  
   | ) Wye  |   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 100 A<br>MCB Rating: 100 A  
  |   |
|--|---
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--
---|--
--|--|---|---
--|--
---|---|---|
| кт   | Circuit Description   | Trip  
   | Poles   
   
   | A<br>(kVA)   | B<br>(kVA)   
   | C<br>(kVA)   | A<br>(kVA)  | B<br>(kVA)  | C<br>(kVA)   
   | Poles  | Trip  | Circuit Description  
  |   |
| 1  | REC MOBILE WORK TABLE FOOD SERVICE  | 20 A  
   | 1   
   
   | 0.18   | (  
   | (  | 0.18  | (   |  
   | 1  | 20 A  | REC MOBILE WORK TABLE FOOD SERVICE   
  |   |
| 3  | REC MOBILE WORK TABLE FOOD SERVICE  | 20 A  
   | 1   
   
   |  | 0.18   
   | 0.18   |   | 0.54  | 0.36   
   | 1  | 20 A  | REC ROOM 1.L11.03  
  | _ |
| 7  | BAGGED ICE CABINET  | 20 A  
   | 1   
   
   | 0.97   |  
   | 0.10   | 0.05  |   | 0.50   
   | 1  | 20 A  | OVERHEAD COILING DOOR FOOD SERVICE   
  |   |
| 9  | MOBILE HOLDING CABINET FOOD SERVICE   | 20 A  
   | 1   
   
   |  | 0.18   
   | 3 0.54<br>0.54<br>0 0.00   | 0.00  | 0.18  |  
   | 1  | 20 A  | MOBILE HOLDING CABINET FOOD SERVICE  
  |   |
| 11   | REC FOOD SERVICE STORAGE 1.L11.03   | 20 A  
   | 1   
   
   | 0.00   |  
   |  | 0.00  |   | 0.18   
   | 1  | 20 A  | MOBILE HOLDING CABINET FOOD SERVICE  
  |   |
| 15   | SPARE   | 20 A  
   | 1   
   
   | 0.00   | 0.00   
   |  | 0.00  | 0.00  |  
   | 1  | 20 A  | SPARE  
  | _ |
| 17   | SPARE   | 20 A  
   | 1   
   
   |  |  
   |  |   |   | 0.00   
   | 1  | 20 A  | SPARE  
  |   |
| 19   | SPARE   | 20 A  
   | 1   
   
   | 0.00   | 0.00   
   |  | 0.00  | 0.00  |  
   | 1  | 20 A  | SPARE  
  |   |
| <u>23</u>  | SPARE   | 20 A<br>20 A  
   | 1   
   
   |  | 0.00   
   | 0.00   |   | 0.00  | 0.00   
   | 1  | 20 A  | SPARE  
  |   |
| 25   | SPARE   | 20 A  
   | 1   
   
   | 0.00   |  
   |  | 0.00  |   |  
   | 1  | 20 A  | SPARE  
  |   |
| 27<br>20   | SPARE<br>SPARE  | 20 A  
   | 1   
   
   |  | 0.00   
   | 0.00   |   | 0.00  | 0.00   
   | 1  | 20 A  | SPARE<br>SPARE   
  |   |
| _ອ<br>31   | SPARE   | 20 A  
   | 1   
   
   | 0.00   |  
   | 0.00   | 0.00  |   | 0.00   
   | 1  | 20 A  | SPARE  
  |   |
| 33   | SPARE   | 20 A  
   | 1   
   
   |  | 0.00   
   |  |   | 0.00  |  
   | 1  | 20 A  | SPARE  
  |   |
| 35   | SPARE<br>SPACE  | 20 A  
   | 1   
   
   | 0.00   |  
   | 0.00   | 0.00  |   | 0.00   
   | 1  | 20 A  | SPARE  
  |   |
| 57<br>39   | SPACE   |   
   |   
   
   | 0.00   | 0.00   
   |  | 0.00  | 0.00  |  
   |  |   | SPACE  
  |   |
| 1  | SPACE   |   
   |   
   
   |  |  
   | 0.00   |   |   | 0.00   
   |  |   | SPACE  
  |   |
|  |   | Tota  
   | al Load:  
   
   | 1.4  | kVA  
   | 1.1  | kVA   | 1.3   | kVA  
   |  |   |  
  |   |
|  | Classification  | Tota  
   | I Amps:   
   
   | 11.  | 7 A  
   | 9.(  |   | 10.   | .7 A   
   | )<br>Domond  |   | Donal Tatala   
  |   |
| oto  | r   |   
   | 50 VA   
   
   | Jau  | Den  
   | 80.00%   |   | ESUI  | 40 V/  
   |  |   | Total Conn. Load: 3722 \/A   
  |   |
| TCł  | 4   | 232 VA  
   |   
   
   |  | 65.00%   
   |  |   | 1451 \  | /A   
   |  | Total Est. Demand:       2931 VA         Total Conn.:       10 A         Total Est. Demand:       8 A   |  
  |   |
|  | Location: ELEC 1.L11.05<br>Supply From: 0LLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC  | CATIONS   
   |   
   
   |  |  
   |  | PI  | Volts: 2<br>nases: 2<br>Wires: 4  | 208/120<br>3<br>4  
   | Wye  |   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A  
  |   |
| ote  | Location: ELEC 1.L11.05<br>Supply From: 0LLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC  | CATIONS   
   |   
   
   |  |  
   |  | PI  | Volts:<br>nases:<br>Wires:  | 208/120<br>3<br>4  
   | Wye  |   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A  
  |   |
| ote  | Circuit Description   | CATIONS   
   | Poles   
   
   | Α  | В  
   | С  | PI  | Volts: :<br>nases: :<br>Wires: /<br>B   | 208/120<br>3<br>4<br><b>C</b>  
   | Wye<br>Poles   | Trip  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>Circuit Description   
  |   |
| <b>ote</b><br><b>KT</b><br>1<br>3  | Location: ELEC 1.L11.05<br>Supply From: 0LLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>s:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REE OFFICIALS LOUNCE   | Trip  
   | Poles   
   
   | <b>A</b><br>1.08   | <b>B</b>   
   | С  | PI<br>A<br>1.32   | Volts: :<br>nases: :<br>Wires: •<br>B   | 208/120<br>3<br>4<br><b>C</b>  
   | Poles  | <b>Trip</b><br>20 A   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>Circuit Description<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNCE 1114 03  
  |   |
| <b>KT</b><br>1<br>3<br>5   | Location: ELEC 1.L11.05<br>Supply From: 0LLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>s:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01   | Trip           20 A           20 A           20 A   
   | Poles 1 1 1 1   
   
   | <b>A</b><br>1.08   | <b>B</b><br>1.00   
   | <b>C</b>   | <b>A</b><br>1.32  | Volts: 2<br>nases: 2<br>Wires: 4<br>B<br>0.78   | 208/120<br>3<br>4<br><b>C</b><br>1.32  
   | Wye           Poles           1           1           1           1  | <b>Trip</b><br>20 A<br>20 A<br>20 A   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>Circuit Description<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02   
  |   |
| <b>KT</b><br>1<br>3<br>5<br>7  | Location: ELEC 1.L11.05<br>Supply From: 0LLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>s:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01  | Trip           20 A           20 A           20 A           20 A           20 A   
   | Poles 1 1 1 1 1 1   
   
   | <b>A</b><br>1.08<br>0.72   | <b>B</b><br>1.00   
   | <b>C</b>   | PI<br>A<br>1.32<br>0.54   | Volts: :<br>nases: :<br>Wires: /<br>B<br>0.78   | 208/120<br>3<br>4<br><b>C</b><br>1.32  
   | Wye           Poles           1           1           1           1  | <b>Trip</b><br>20 A<br>20 A<br>20 A<br>20 A   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>Circuit Description<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES  
  |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC   | Trip           20 A           20 A           20 A           20 A           20 A   
   | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1               
   
   | <b>A</b><br>1.08<br>0.72   | <b>B</b><br>1.00<br>0.48   
   | <b>C</b>   | <b>A</b><br>1.32<br>0.54  | Volts: :<br>nases: :<br>Wires: /<br>B<br>0.78<br>0.18   | 208/120<br>3<br>4<br><b>C</b><br>1.32  
   | Poles           1           1           1           1           1           1  | <b>Trip</b><br>20 A<br>20 A<br>20 A<br>20 A<br>20 A   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>Circuit Description<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC PIONALIS 00, 410 00   
  |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.1.7.02  | Trip           20 A   
  | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
   
  | <b>A</b><br>1.08<br>0.72   | <b>B</b><br>1.00<br>0.48  
  | <b>C</b><br>1.32<br>0.96   | PI<br>A<br>1.32<br>0.54<br>0.72   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.18  | 208/120<br>3<br>4<br><b>C</b><br>1.32<br>0.96   
  | Poles           1           1           1           1           1           1           1           1           1           1           1           1           1           1  | <b>Trip</b><br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>Circuit Description<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01   
   |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01   | Trip           20 A   
   | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   
   
   | <b>A</b><br>1.08<br>0.72<br>0.96   | <b>B</b><br>1.00<br>0.48<br>0.78   
   | <b>C</b><br>1.32<br>0.96   | PI<br>A<br>1.32<br>0.54<br>0.72   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.18<br>0.18  | 208/120<br>3<br>4<br>1.32<br>0.96  
   | Poles           1           1           1           1           1           1           1           1           1           1           1           1           1           1  | <b>Trip</b><br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>Circuit Description<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE   
  |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE   | Trip           20 A   
   | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   
   
   | A<br>1.08<br>0.72<br>0.96  | <b>B</b><br>1.00<br>0.48<br>0.78   
   | C<br>1.32<br>0.96<br>1.80  | PI<br>A<br>1.32<br>0.54<br>0.72   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.18<br>1.80  | 208/120<br>3<br>4<br><b>C</b><br>1.32<br>0.96<br>0.90  
   | Poles           1  | <b>Trip</b> 20 A   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>Circuit Description<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAMLOCKERD   |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9<br>1<br>1<br>3<br>5<br>7<br>9<br>1<br>1<br>3<br>5<br>7<br>9<br>1<br>1<br>3<br>5<br>7<br>9<br>1<br>3<br>5<br>7<br>9<br>1<br>3<br>1<br>5<br>7<br>7<br>9<br>1<br>3   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC PLAYER LOUNGE         REC HOME TEAM LOCKERS   | Trip         20 A   
   | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   
   
   | <b>A</b><br>1.08<br>0.72<br>0.96<br>1.08   | <b>B</b><br>1.00<br>0.48<br>0.78<br>0.78   
   | <b>C</b><br>1.32<br>0.96<br>1.80   | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.18<br>0.18<br>1.80<br>0.90  | 208/120<br>3<br>4<br><b>C</b><br>1.32<br>0.96<br>0.90  
   | Poles           1  | <b>Trip</b><br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS  |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9<br>1<br>1<br>3<br>5<br>7<br>9<br>1<br>1<br>3<br>5<br>7<br>9<br>1<br>1<br>3<br>5<br>7<br>9<br>2<br>1<br>2<br>3   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC PLAYER LOUNGE         REC PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC HOME TEAM LOCKERS   | Trip           20 A   
  | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
   
  | <b>A</b><br>1.08<br>0.72<br>0.96<br>1.08   | <b>B</b><br>1.00<br>0.48<br>0.78<br>1.08  
  | C<br>1.32<br>0.96<br>1.80  | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.18<br>0.18<br>1.80<br>0.90  | 208/120<br>3<br>4<br><b>C</b><br>1.32<br>0.96<br>0.90<br>0.90   
  | Poles       1  | <b>Trip</b><br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A   | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS   |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9<br>1<br>1<br>3<br>5<br>7<br>9<br>1<br>1<br>3<br>5<br>7<br>9<br>1<br>1<br>3<br>5<br>7<br>9<br>1<br>3<br>5<br>7<br>9<br>1<br>3<br>5<br>7<br>7<br>9<br>1<br>3<br>5<br>7<br>7<br>9<br>1<br>3<br>5<br>7<br>7<br>9<br>1<br>3<br>5<br>5<br>7<br>7<br>9<br>1<br>3<br>5<br>5<br>7<br>7<br>9<br>1<br>5<br>7<br>7<br>9<br>1<br>5<br>7<br>7<br>9<br>1<br>5<br>7<br>7<br>7<br>9<br>1<br>5<br>7<br>7<br>9<br>1<br>5<br>7<br>7<br>7<br>9<br>1<br>5<br>7<br>7<br>7<br>7<br>9<br>1<br>5<br>7<br>7<br>7<br>7<br>7<br>9<br>1<br>5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>9<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC PLAYER LOUNGE         REC PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC LAUNDER   | Trip           20 A   
  | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
   
  | A<br>1.08<br>0.72<br>0.96<br>1.08<br>1.08  | B<br>1.00<br>0.48<br>0.78<br>1.08   
  | C<br>1.32<br>0.96<br>1.80<br>1.20  | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08<br>1.20   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.18<br>0.18<br>1.80<br>0.90  | 208/120<br>3<br>4<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7  | Poles       1  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS  |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC LAUNDRY 1.L1.01         REC MECH / PLUMB 1.L9.02  | Trip           20 A   
  | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
   
  | A<br>1.08<br>0.72<br>0.96<br>1.08<br>0.90  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08   
  | C<br>1.32<br>0.96<br>1.80<br>1.80<br>1.20  | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08<br>1.20   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.18<br>0.18<br>0.90<br>0.90  | 208/120<br>3<br>4<br><b>C</b><br>1.32<br>0.96<br>0.90<br>1.08<br>1.08  | Poles       1  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05  |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC MECH / PLUMB 1.L9.02         REC ROOM CORRIDOR 1.L11.04   | Trip         20 A          20 A          20 A          20 A          20 A   
  | Poles         1  
   
  | A<br>1.08<br>0.72<br>0.96<br>1.08<br>1.08  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08   
  | C<br>1.32<br>0.96<br>1.80<br>1.20<br>0.90  | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08<br>1.20<br>0.54   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.18<br>0.18<br>1.80<br>0.90<br>0.90  | 208/120<br>3<br>4<br><b>C</b><br>1.32<br>0.96<br>0.90<br>1.08<br>1.08  | Poles       1                          
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC EXTERIOR   |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>25<br>27<br>29<br>31<br>33<br>25<br>27<br>29<br>31<br>33<br>25<br>27<br>29<br>31<br>33<br>25<br>27<br>29<br>31<br>33<br>25<br>27<br>29<br>31<br>33<br>25<br>27<br>29<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Similar Contraction         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC HOME TEAM BULLPEN 1.L11.01         OVERHEAD COULING DOODS FOURDATION  | Trip         20 A          20 A          20 A <t< td=""><td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>A<br/>1.08<br/>0.72<br/>0.96<br/>1.08<br/>0.90<br/>0.90</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.32<br/>1.32</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.20<br/>0.90</td><td>PI<br/>A<br/>1.32<br/>0.54<br/>0.72<br/>1.08<br/>1.20<br/>0.54<br/>0.54</td><td>Volts: :<br/>nases: :<br/>Wires: /<br/>0.78<br/>0.78<br/>0.18<br/>0.18<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54</td><td>208/120<br/>3<br/>4<br/><b>C</b><br/>1.32<br/>0.96<br/>0.90<br/>1.08<br/>0.54</td><td>Poles       1</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC HOME TEAM DUGOUT TOILET 1.L4.02</td><td></td></t<>   
  | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
   
  | A<br>1.08<br>0.72<br>0.96<br>1.08<br>0.90<br>0.90  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.32<br>1.32   
  | C<br>1.32<br>0.96<br>1.80<br>1.20<br>0.90  | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08<br>1.20<br>0.54<br>0.54   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.18<br>0.18<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54  | 208/120<br>3<br>4<br><b>C</b><br>1.32<br>0.96<br>0.90<br>1.08<br>0.54  | Poles       1  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC EXTERIOR<br>REC HOME TEAM DUGOUT TOILET 1.L4.02   |   |
| <b>KT</b><br>1<br>3<br>5<br>7<br>9<br>11<br>3<br>5<br>7<br>9<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC PLAYER LOUNGE         REC PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC HOME TEAM BULLPEN 1.L11.01         OVERHEAD COILING DO  | Trip         20 A         20 A <t< td=""><td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>A<br/>1.08<br/>0.72<br/>0.72<br/>0.96<br/>1.08<br/>0.90<br/>0.90<br/>0.90</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>1.08<br/>1.08<br/>1.32<br/>0.72</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.20<br/>0.90</td><td>PI<br/>A<br/>1.32<br/>0.54<br/>0.72<br/>1.08<br/>1.08<br/>1.20<br/>0.54<br/>0.54<br/>0.54</td><td>Volts: :<br/>nases: :<br/>Wires: /<br/>0.78<br/>0.78<br/>0.78<br/>0.18<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54</td><td>208/120<br/>3<br/>4<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7</td><td>Poles       1</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC HOME TEAM LOCKERS<br/>REC HOME TEAM LOCKERS<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER</td><td></td></t<>  
  | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
   
  | A<br>1.08<br>0.72<br>0.72<br>0.96<br>1.08<br>0.90<br>0.90<br>0.90  | B<br>1.00<br>0.48<br>0.78<br>1.08<br>1.08<br>1.32<br>0.72   
  | C<br>1.32<br>0.96<br>1.80<br>1.20<br>0.90  | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08<br>1.08<br>1.20<br>0.54<br>0.54<br>0.54                         | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.78<br>0.18<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54  | 208/120<br>3<br>4<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7  | Poles       1  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC EXTERIOR<br>REC BROADCAST POWER<br>REC BROADCAST POWER   |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L4.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC PLAYER LOUNGE         REC PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC HOME TEAM BULLPEN 1.L11.01         OVERHEAD COILING DOO  | Trip         20 A         20 A <t< td=""><td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>A<br/>1.08<br/>0.72<br/>0.96<br/>1.08<br/>0.90<br/>0.90<br/>0.72<br/>0.72</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.32<br/>0.72</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>1.20<br/>0.90</td><td>PI<br/>A<br/>1.32<br/>0.54<br/>0.72<br/>1.08<br/>1.20<br/>0.54<br/>0.54<br/>0.54</td><td>Volts: :<br/>nases: :<br/>Wires: /<br/>0.78<br/>0.78<br/>0.78<br/>0.18<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54</td><td>208/120<br/>3<br/>4<br/>1.32<br/>0.96<br/>0.90<br/>1.08<br/>0.54<br/>0.36</td><td>Poles         1          1          1          1          1&lt;</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11.01</td><td></td></t<>   
  | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
   
  | A<br>1.08<br>0.72<br>0.96<br>1.08<br>0.90<br>0.90<br>0.72<br>0.72  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>1.32<br>0.72   
  | C<br>1.32<br>0.96<br>1.80<br>1.80<br>1.20<br>0.90  | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08<br>1.20<br>0.54<br>0.54<br>0.54                                 | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.78<br>0.18<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54  | 208/120<br>3<br>4<br>1.32<br>0.96<br>0.90<br>1.08<br>0.54<br>0.36  | Poles         1        
1         1          1          1          1          1<   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC EXTERIOR<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC ELEVATOR E.L11.01   |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>11<br>13<br>15<br>17<br>19<br>21<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>11<br>15<br>17<br>19<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11 | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:             REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC HOME TEAM BULLPEN 1.L11.01         REC MECH / PLUMB 1.L9.02         REC ROOM CORRIDOR 1.L11.04         REC HOME TEAM BULLPEN 1.L11.01         OVERHEAD COILING DOORS EQUIPMENT         REC STO. 1.L11.07         OVERHEAD COILING DOORS STORAGE         HOME DUGOUT FIELD CAMERA  | Trip         20 A         20 A <t< td=""><td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>A<br/>1.08<br/>0.72<br/>0.96<br/>1.08<br/>1.08<br/>0.90<br/>0.90<br/>0.72<br/>0.54</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.32<br/>0.72<br/>0.72</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.20<br/>0.90<br/>1.20</td><td>P</td><td>Volts: :<br/>nases: :<br/>Wires: /<br/>0.78<br/>0.78<br/>0.78<br/>0.18<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54</td><td>208/120<br/>3<br/>4<br/><b>C</b><br/>1.32<br/>0.96<br/>0.90<br/>1.08<br/>0.54<br/>0.54<br/>0.36</td><td>Poles         1          1          1          1          1    </td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC HOME TEAM DUGOUT TOILET 1.L4.02<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02</td><td></td></t<>   
  | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
   
  | A<br>1.08<br>0.72<br>0.96<br>1.08<br>1.08<br>0.90<br>0.90<br>0.72<br>0.54  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>1.32<br>0.72<br>0.72   
  | C<br>1.32<br>0.96<br>1.80<br>1.20<br>0.90<br>1.20  | P   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.78<br>0.18<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54  | 208/120<br>3<br>4<br><b>C</b><br>1.32<br>0.96<br>0.90<br>1.08<br>0.54<br>0.54<br>0.36  | Poles         1        
1         1         1         1         1         1         1          1          1          1          1  | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC EXTERIOR<br>REC HOME TEAM DUGOUT TOILET 1.L4.02<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC PLAYER LOUNGE / NUTRITION 1.L5.02   |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>15<br>17<br>19<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>13<br>15<br>17<br>19<br>13<br>15<br>17<br>19<br>13<br>15<br>17<br>19<br>13<br>15<br>15<br>17<br>19<br>13<br>15<br>15<br>17<br>19<br>13<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:             REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC HOME TEAM BULLPEN 1.L11.01         OVERHEAD COILING DOORS EQUIPMENT         REC STO. 1.L11.07         OVERHEAD COILING DOORS STORAGE         HOME DUGOUT FIELD CAMERA         OUTFIELD CAMERA TOWER         LIT SIGN HOME TEAM LOCKER POOM  | Trip         20 A         20 A <t< td=""><td>Poles         1          1          1          1</td><td>A<br/>1.08<br/>0.72<br/>0.96<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.32<br/>0.72<br/>0.72<br/>1.20</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>1.20<br/>0.90<br/>1.20</td><td>PI<br/>A<br/>1.32<br/>0.54<br/>0.72<br/>1.08<br/>1.20<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54</td><td>Volts: :<br/>nases: :<br/>Wires: /<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.72<br/>0.54<br/>0.72<br/>0.54<br/>0.72</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.96<br/>0.90<br/>1.08<br/>0.54<br/>0.54<br/>0.36<br/>1.80<br/>1.80</td><td>Poles         1</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rati</td><td></td></t<>  
  | Poles         1          1          1          1   
   
  | A<br>1.08<br>0.72<br>0.96<br>1.08<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>1.32<br>0.72<br>0.72<br>1.20  | C<br>1.32<br>0.96<br>1.80<br>1.80<br>1.20<br>0.90<br>1.20  
   | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08<br>1.20<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54                 | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.78<br>0.78<br>0.78<br>0.78<br>0.72<br>0.54<br>0.72<br>0.54<br>0.72  | 208/120<br>3<br>4<br>C<br>1.32<br>0.96<br>0.90<br>1.08<br>0.54<br>0.54<br>0.36<br>1.80<br>1.80   | Poles         1  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rati  |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>13<br>15<br>17<br>19<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>17<br>19<br>11<br>13<br>15<br>17<br>17<br>19<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         S:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L4.01         EWC         REC TRAINING ROOM 1.L8.02         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC HOME TEAM FILM ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC HOME TEAM BULLPEN 1.L11.01         OVERHEAD COILING DOORS EQUIPMENT         REC STO. 1.L11.07         OVERHEAD COILING DOORS STORAGE         HOME DUGOUT FIELD CAMERA         OUTFIELD CAMERA TOWER         LIT SIGN HOME TEAM LOCKER ROOM         PLAYER LOUNGE / NUTRITION 1.L5.02  | Trip         20 A         20 A <t< td=""><td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>A<br/>1.08<br/>0.72<br/>0.96<br/>1.08<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.54<br/>0.54</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>1.08<br/>1.08<br/>1.32<br/>0.72<br/>0.72<br/>1.20</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.20<br/>1.20<br/>0.90<br/>1.20<br/>0.90</td><td>PI<br/>A<br/>1.32<br/>0.54<br/>0.72<br/>1.08<br/>1.20<br/>1.20<br/>0.54<br/>0.54<br/>0.54<br/>0.36<br/>0.36</td><td>Volts: :<br/>nases: :<br/>Wires: /<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.72<br/>0.54<br/>0.72<br/>0.54<br/>0.18<br/>0.80</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.90<br/>0.90<br/>1.08<br/>0.54<br/>0.54<br/>0.36<br/>1.80<br/>1.80</td><td>Poles         1       &lt;</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rati</td><td></td></t<>  
  | Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
   
  | A<br>1.08<br>0.72<br>0.96<br>1.08<br>1.08<br>0.90<br>0.90<br>0.90<br>0.54<br>0.54  | B<br>1.00<br>0.48<br>0.78<br>1.08<br>1.08<br>1.32<br>0.72<br>0.72<br>1.20  | C<br>1.32<br>0.96<br>1.80<br>1.20<br>1.20<br>0.90<br>1.20<br>0.90  
   | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08<br>1.20<br>1.20<br>0.54<br>0.54<br>0.54<br>0.36<br>0.36         | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.78<br>0.78<br>0.72<br>0.54<br>0.72<br>0.54<br>0.18<br>0.80  | 208/120<br>3<br>4<br>C<br>1.32<br>0.90<br>0.90<br>1.08<br>0.54<br>0.54<br>0.36<br>1.80<br>1.80   | Poles         1       <  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rati  |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>41<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>13<br>33<br>35<br>37<br>39<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41   | Location: ELEC 1.L11.05<br>Supply From: 0LLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>S:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC LAUNDRY 1.L1.01<br>REC REC MICTEAM BILLPEN 1.L11.01<br>OVERHEAD COILING DOORS EQUIPMENT<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02  | Trip         20 A         20 A <t< td=""><td>Poles         1          1          1          1          1          1          1    </td><td>A<br/>1.08<br/>0.72<br/>0.72<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>1.08<br/>1.08<br/>1.32<br/>0.72<br/>0.72<br/>1.20<br/>1.20</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.90</td><td>PI<br/>A<br/>1.32<br/>0.54<br/>0.72<br/>1.08<br/>1.20<br/>0.54<br/>0.54<br/>0.54<br/>0.36<br/>0.36<br/>0.12<br/>0.12</td><td>Volts: :<br/>nases: :<br/>Wires: /<br/>0.78<br/>0.78<br/>0.78<br/>0.18<br/>0.18<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54<br/>0.18<br/>0.80<br/>0.80</td><td>208/120<br/>3<br/>4<br/>1.32<br/>0.96<br/>0.90<br/>0.90<br/>1.08<br/>0.54<br/>0.54<br/>0.36<br/>1.80<br/>0.36</td><td>Poles         1          1          1          1     &lt;</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rati</td><td></td></t<>  
  | Poles         1          1          1          1          1          1          1  
   
  | A<br>1.08<br>0.72<br>0.72<br>0.90<br>1.08<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54  | B<br>1.00<br>0.48<br>0.78<br>1.08<br>1.08<br>1.32<br>0.72<br>0.72<br>1.20<br>1.20  | C<br>1.32<br>0.96<br>1.80<br>1.80<br>1.20<br>0.90<br>1.20<br>0.90  
   | PI<br>A<br>1.32<br>0.54<br>0.72<br>1.08<br>1.20<br>0.54<br>0.54<br>0.54<br>0.36<br>0.36<br>0.12<br>0.12 | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.78<br>0.18<br>0.18<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54<br>0.18<br>0.80<br>0.80  | 208/120<br>3<br>4<br>1.32<br>0.96<br>0.90<br>0.90<br>1.08<br>0.54<br>0.54<br>0.36<br>1.80<br>0.36  | Poles         1          1          1          1     <   
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rati  |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>33<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>35<br>35<br>37<br>39<br>11<br>13<br>35<br>35<br>37<br>39<br>11<br>13<br>35<br>57<br>37<br>39<br>11<br>13<br>35<br>57<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>31<br>33<br>35<br>57<br>37<br>39<br>11<br>13<br>35<br>57<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>31<br>33<br>35<br>57<br>19<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         s:             REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC ROOM 1.L14.01         EWC         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC HOME TEAM FILM ROOM 1.L7.02         REC COACHES LOCKER ROOM 1.L6.01         REC REF PLAYER LOUNGE         REC HOME TEAM LOCKERS         REC HOME TEAM LOCKERS         REC HOME TEAM LOCKERS         REC HOME TEAM LOCKERS         REC LAUNDRY 1.L1.01         REC MECH / PLUMB 1.L9.02         REC ROOM CORRIDOR 1.L11.04         REC MOME TEAM BULLPEN 1.L11.01         OVERHEAD COILING DOORS EQUIPMENT         REC STO. 1.L11.07         OVERHEAD COILING DOORS STORAGE         HOME DUGOUT FIELD CAMERA         OUTFIELD CAMERA TOWER         LIT SIGN HOME TEAM LOCKER ROOM         PLAYER LOUNGE / NUTRITION 1.L5.02         REC HOME TEAM FILM ROOM 1.L7.02         GEN BATT CHARGER         LIGHTING RELAY PANEL 1.1.11.05  | Trip         20 A         20 A <t< td=""><td>Poles         1</td><td>A<br/>1.08<br/>0.72<br/>0.96<br/>1.08<br/>0.90<br/>1.08<br/>0.90<br/>0.54<br/>0.54<br/>0.54</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.32<br/>0.72<br/>0.72<br/>0.72<br/>1.20<br/>1.20<br/>0.12</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80</td><td>P</td><td>Volts: :<br/>nases: :<br/>Wires: /<br/>0.78<br/>0.78<br/>0.78<br/>0.18<br/>0.18<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54<br/>0.54<br/>0.18<br/>0.54<br/>0.54</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.96<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90</td><td>Poles         1       &lt;</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rati</td><td></td></t<>  
  | Poles         1  
   
  | A<br>1.08<br>0.72<br>0.96<br>1.08<br>0.90<br>1.08<br>0.90<br>0.54<br>0.54<br>0.54  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>1.32<br>0.72<br>0.72<br>0.72<br>1.20<br>1.20<br>0.12  | C<br>1.32<br>0.96<br>1.80<br>1.80<br>1.20<br>0.90<br>1.20<br>0.80<br>0.80<br>0.80  
   | P   | Volts: :<br>nases: :<br>Wires: /<br>0.78<br>0.78<br>0.78<br>0.18<br>0.18<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54<br>0.54<br>0.18<br>0.54<br>0.54  | 208/120<br>3<br>4<br>C<br>1.32<br>0.96<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90   | Poles         1       <  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rati  |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>5<br>37<br>39<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>15<br>15<br>17<br>19<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>35<br>35<br>37<br>39<br>11<br>13<br>35<br>35<br>37<br>39<br>11<br>13<br>35<br>35<br>37<br>39<br>11<br>13<br>35<br>55<br>17<br>19<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | Location: ELEC 1.L11.05<br>Supply From: 0LLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>s:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC LAUNDRY 1.L1.01<br>REC MECH / PLUMB 1.L9.02<br>REC ROOM CORRIDOR 1.L11.04<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS EQUIPMENT<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE   | Trip         20 A         20 A <t< td=""><td>Poles         1          1          1          1     &lt;</td><td>A<br/>1.08<br/>0.72<br/>0.72<br/>1.08<br/>1.08<br/>0.96<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>0.72<br/>1.20<br/>1.20<br/>0.12</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>1.20</td><td>P</td><td>Volts: :<br/>nases: :<br/>Wires: /<br/>0.18<br/>0.18<br/>0.18<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54<br/>0.54<br/>0.18<br/>0.80<br/>0.80</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.96<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.36<br/>1.80<br/>0.18<br/>0.36</td><td>Wye         Poles         1     &lt;</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rati</td><td></td></t<>  
  | Poles         1          1          1          1     <   
   
  | A<br>1.08<br>0.72<br>0.72<br>1.08<br>1.08<br>0.96<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>1.08<br>0.72<br>0.72<br>0.72<br>1.20<br>1.20<br>0.12  | C<br>1.32<br>0.96<br>1.80<br>1.20<br>0.90<br>1.20<br>0.80<br>0.80<br>0.80<br>1.20  
   | P   | Volts: :<br>nases: :<br>Wires: /<br>0.18<br>0.18<br>0.18<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54<br>0.54<br>0.18<br>0.80<br>0.80  | 208/120<br>3<br>4<br>C<br>1.32<br>0.96<br>0.90<br>1.08<br>0.90<br>1.08<br>0.36<br>1.80<br>0.18<br>0.36   | Wye         Poles         1     <  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rati  |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>37<br>39<br>11<br>13<br>33<br>35<br>57<br>19<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | Location: ELEC 1.L11.05<br>Supply From: 0LLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>S:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC LAUNDRY 1.L1.01<br>REC REC HOME TEAM BULLPEN 1.L11.01<br>OVERHEAD COILING DOORS EQUIPMENT<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE<br>SPARE   | Trip         20 A         20 A <t< td=""><td>Poles         1          1          1          1      &lt;</td><td>A<br/>1.08<br/>0.72<br/>0.72<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>1.08<br/>1.08<br/>1.08<br/>1.08<br/>1.08<br/>1.08<br/>1.00<br/>1.00</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>1.20</td><td>P</td><td>Volts: :<br/>nases: :<br/>Wires: :<br/>0.18<br/>0.18<br/>0.18<br/>0.90<br/>0.72<br/>0.54<br/>0.54<br/>0.18<br/>0.80<br/>0.80<br/>0.66</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.96<br/>0.96<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.36<br/>0.18<br/>0.18<br/>0.36<br/>0.36</td><td>Poles         1       &lt;</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rati</td><td></td></t<>  
  | Poles         1          1          1          1      <  
   
  | A<br>1.08<br>0.72<br>0.72<br>0.90<br>1.08<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0   | B<br>1.00<br>0.48<br>0.78<br>1.08<br>1.08<br>1.08<br>1.08<br>1.08<br>1.08<br>1.00<br>1.00  | C<br>1.32<br>0.96<br>1.80<br>1.80<br>1.20<br>0.90<br>1.20<br>0.80<br>0.80<br>0.80<br>1.20  
   | P   | Volts: :<br>nases: :<br>Wires: :<br>0.18<br>0.18<br>0.18<br>0.90<br>0.72<br>0.54<br>0.54<br>0.18<br>0.80<br>0.80<br>0.66  | 208/120<br>3<br>4<br>C<br>1.32<br>0.96<br>0.96<br>0.90<br>1.08<br>0.90<br>1.08<br>0.36<br>0.18<br>0.18<br>0.36<br>0.36   | Poles         1       <  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rati  |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>41<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>37<br>39<br>41<br>13<br>33<br>35<br>57<br>59<br>11<br>13<br>33<br>35<br>57<br>59<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>57<br>59<br>11<br>13<br>33<br>55<br>57<br>59<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>57<br>59<br>11<br>13<br>15<br>17<br>19<br>21<br>25<br>57<br>59<br>11<br>13<br>35<br>57<br>59<br>11<br>13<br>35<br>57<br>59<br>11<br>13<br>35<br>57<br>59<br>11<br>13<br>35<br>57<br>59<br>11<br>13<br>15<br>17<br>19<br>25<br>57<br>59<br>11<br>13<br>15<br>17<br>19<br>11<br>13<br>15<br>17<br>19<br>25<br>57<br>59<br>11<br>13<br>35<br>57<br>57<br>59<br>57<br>57<br>59<br>51<br>57<br>57<br>59<br>57<br>59<br>57<br>57<br>59<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57   | Location: ELEC 1.L11.05         Supply From: 0LLD         Mounting: SURFACE         Enclosure: PER SPECIFIC         S:         Circuit Description         REC SWITCHED OPS & FOOD SERVICE         REC UC REF OFFICIALS LOUNGE         REC OFFICIALS TLT B 1.L12.01         REC MOM 1.L4.01         EWC         REC HOME TEAM FILM ROOM 1.L7.02         REC HOME TEAM LOCKER ROOM 1.L6.01         REC HOME TEAM LOCKERS         REC HOME TEAM LOCKERS         REC HOME TEAM LOCKERS         REC HOME TEAM BULLPEN 1.L11.01         OVERHEAD COILING DOORS EQUIPMENT         REC STO. 1.L11.07         OVERHEAD COILING DOORS STORAGE         HOME TEAM LOCKER ROOM         PLAYER LOUNGE / NUTRITION 1.L5.02         REC HOME TEAM LOCKER ROOM         PLA  | Trip         20 A         20 A <t< td=""><td>Poles         1</td><td>A<br/>1.08<br/>0.72<br/>0.72<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.32<br/>0.72<br/>0.72<br/>0.72<br/>1.20<br/>0.12<br/>0.12<br/>0.12</td><td>C<br/>1.32<br/>0.96<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>0.90<br/>1.20<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>P</td><td>Volts: :<br/>nases: :<br/>Wires: :<br/>0.18<br/>0.78<br/>0.18<br/>0.18<br/>0.90<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.54<br/>0.18<br/>0.80<br/>0.80<br/>0.80<br/>0.80</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.96<br/>0.96<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54<br/>0.54</td><td>Poles         1</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20
A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC FOOM 1.L8.03, 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11. 01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE</td><td></td></t<>   | Poles         1   
   
   | A<br>1.08<br>0.72<br>0.72<br>0.90<br>1.08<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0   | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>1.32<br>0.72<br>0.72<br>0.72<br>1.20<br>0.12<br>0.12<br>0.12  
   | C<br>1.32<br>0.96<br>1.32<br>0.96<br>1.80<br>1.80<br>0.90<br>1.20<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | P   | Volts: :<br>nases: :<br>Wires: :<br>0.18<br>0.78<br>0.18<br>0.18<br>0.90<br>0.72<br>0.54<br>0.90<br>0.72<br>0.54<br>0.18<br>0.80<br>0.80<br>0.80<br>0.80  | 208/120<br>3<br>4<br>C<br>1.32<br>0.96<br>0.96<br>0.90<br>1.08<br>0.90<br>1.08<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54<br>0.54   | Poles         1   
  | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC FOOM 1.L8.03, 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC ELEC 1.L11.05<br>REC EXTERIOR<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC ELEVATOR E.L11. 01<br>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br>LIT CABINET TEAM CORRIDOR 1.L3.01<br>OH DOOR ROOM 1.L3.05<br>EIH2 CTRL CLUB / TEAM MEETING ROOM<br>GEN JACKET HEATER<br>REC TVS PLAYER LOUNGE 1.L5.02<br>BROADCAST REC<br>REC PITCHING MACHINES<br>SPARE<br>SPARE<br>SPARE   |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>41<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>13<br>33<br>35<br>57<br>57<br>59<br>51<br>13<br>33<br>55<br>7<br>59<br>51<br>57<br>59<br>51<br>57<br>59<br>51<br>53<br>55<br>7<br>59<br>51<br>53<br>55<br>7<br>59<br>51<br>53<br>55<br>7<br>59<br>51<br>53<br>55<br>7<br>59<br>51<br>53<br>55<br>7<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>55<br>57<br>57  | Location: ELEC 1.L11.05<br>Supply From: OLLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>S:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC LAUNDRY 1.L1.01<br>REC ROOM CORRIDOR 1.L11.04<br>REC ROOM CORRIDOR 1.L11.04<br>REC HOME TEAM BULLPEN 1.L11.01<br>OVERHEAD COILING DOORS EQUIPMENT<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE<br>SPARE<br>SPARE  | Trip         20 A         20 A <t< td=""><td>Poles         1      <tr td=""></tr></td><td>A<br/>1.08<br/>0.72<br/>0.72<br/>0.96<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.54<br/>0.54<br/>0.54<br/>0.80<br/>0.80<br/>0.80<br/>0.80</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72</td><td>C<br/>1.32<br/>0.96<br/>1.32<br/>0.96<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>1.20<br/>0.80<br/>1.20<br/>0.80</td><td>P</td><td>Volts: :<br/>nases: :<br/>Wires: :<br/>0.18<br/>0.78<br/>0.18<br/>0.18<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.96<br/>0.96<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.54<br/>0.54<br/>0.54<br/>0.36<br/>0.36<br/>0.18<br/>0.18<br/>0.18<br/>0.36</td><td>Wye         Poles         1</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC ELEC 1.L11.05<br/>REC ELEC 1.L11.05<br/>REC ELEVATOR E.L11.01<br/>REC ELEVATOR E.L11.01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE</td><td></td></t<>   
  | Poles         1 <tr td=""></tr>  
   
  | A<br>1.08<br>0.72<br>0.72<br>0.96<br>1.08<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.00<br>0.54<br>0.54<br>0.54<br>0.80<br>0.80<br>0.80<br>0.80  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>1.08<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72   
  | C<br>1.32<br>0.96<br>1.32<br>0.96<br>1.80<br>1.20<br>0.90<br>1.20<br>0.80<br>0.80<br>1.20<br>0.80<br>1.20<br>0.80  | P   | Volts: :<br>nases: :<br>Wires: :<br>0.18<br>0.78<br>0.18<br>0.18<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.00<br>0.00<br>0.00<br>0.00  | 208/120<br>3<br>4<br>C<br>1.32<br>0.96<br>0.96<br>0.90<br>1.08<br>0.90<br>1.08<br>0.54<br>0.54<br>0.54<br>0.36<br>0.36<br>0.18<br>0.18<br>0.18<br>0.36   | Wye         Poles         1         1         1         1         1         1         1         1         1         1         1         1      
  1          | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC ELEC 1.L11.05<br>REC ELEC 1.L11.05<br>REC ELEVATOR E.L11.01<br>REC ELEVATOR E.L11.01<br>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br>LIT CABINET TEAM CORRIDOR 1.L3.01<br>OH DOOR ROOM 1.L3.05<br>EIH2 CTRL CLUB / TEAM MEETING ROOM<br>GEN JACKET HEATER<br>REC TVS PLAYER LOUNGE 1.L5.02<br>BROADCAST REC<br>REC PITCHING MACHINES<br>SPARE<br>SPARE<br>SPARE   |   |
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| KT       1       3       5         7       9       1       3       5         1       3       5       7       9         1       3       5       7       9         1       3       5       7       9         1       3       5       7       9         1       3       5       7       9         1       3       5       7       9         1       3       5       7       9         1       3       5       7       9         1       3       5       7       9         1       3       5       7       9         3       5       7       9       1       3         5       7       9       1       3       5         5       7       9       1       3       5         5       7       9       1       3       5         5       7       9       1       3       5         5       7       9       1       3       5         5       7       9       1   | Location: ELEC 1.L11.05<br>Supply From: OLLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>S:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC LAUNDRY 1.L1.01<br>REC RECH / PLUMB 1.L9.02<br>REC ROOM CORRIDOR 1.L11.04<br>REC ROOM CORRIDOR 1.L11.04<br>REC HOME TEAM BULLPEN 1.L11.01<br>OVERHEAD COILING DOORS EQUIPMENT<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE<br>SPARE<br>SPARE<br>SPARE   | Trip         20 A         20 A <t< td=""><td>Poles         1      <tr td=""></tr></td><td>A<br/>1.08<br/>0.72<br/>0.72<br/>0.96<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>1.32<br/>0.72<br/>1.32<br/>0.72<br/>0.72<br/>1.32<br/>0.72<br/>0.72<br/>1.32<br/>0.72<br/>0.72</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>0.80</td><td>P</td><td>Volts: :<br/>hases: :<br/>Wires: :<br/>0.18<br/>0.78<br/>0.18<br/>0.18<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.00<br/>0.54<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.18<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.96<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.36<br/>0.36<br/>0.18<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36</td><td>Poles         1</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11. 01<br/>REC ELEVATOR E.L11. 01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE</td><td></td></t<>  
  | Poles         1 <tr td=""></tr>  
   
  | A<br>1.08<br>0.72<br>0.72<br>0.96<br>1.08<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80  | B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>1.08<br>0.72<br>0.72<br>1.32<br>0.72<br>1.32<br>0.72<br>0.72<br>1.32<br>0.72<br>0.72<br>1.32<br>0.72<br>0.72   
  | C<br>1.32<br>0.96<br>1.80<br>1.80<br>1.20<br>0.90<br>1.20<br>0.80<br>0.80<br>0.80<br>1.20<br>0.80<br>0.80<br>0.80<br>0.80  | P   | Volts: :<br>hases: :<br>Wires: :<br>0.18<br>0.78<br>0.18<br>0.18<br>0.90<br>0.90<br>0.72<br>0.54<br>0.00<br>0.54<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.18<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  | 208/120<br>3<br>4<br>C<br>1.32<br>0.96<br>0.90<br>1.08<br>0.90<br>1.08<br>0.36<br>0.36<br>0.18<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36   | Poles         1    
    1        | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC EXTERIOR<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC ELEVATOR E.L11. 01<br>REC ELEVATOR E.L11. 01<br>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br>LIT CABINET TEAM CORRIDOR 1.L3.01<br>OH DOOR ROOM 1.L3.05<br>EIH2 CTRL CLUB / TEAM MEETING ROOM<br>GEN JACKET HEATER<br>REC PITCHING MACHINES<br>SPARE<br>SPARE<br>SPARE<br>SPARE  |   |
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| KT       1       3         5       7       9         11       3       5         7       9       11         13       15       17         19       21       23         25       27       29         31       35       37         39       11       13         147       19       51         15       17       19         16       17       19         17       19       51         13       15       17         19       13       35         10       13       35         11       13       35         15       17       19         13       15       17         13       15       17         13       15       17         13       15       17         13       15       17         13       15       17         13       15       17         13       15       17         13       15       17         14       15       17  | Location: ELEC 1.L11.05<br>Supply From: OLLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>S:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC LAUNDRY 1.L1.01<br>REC MECH / PLUMB 1.L9.02<br>REC ROOM CORRIDOR 1.L11.04<br>REC HOME TEAM BULLPEN 1.L11.01<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE  | Trip         20 A         20 A <t< td=""><td>Poles         1      <tr tr=""></tr></td><td>A<br/>1.08<br/>0.72<br/>0.72<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.08<br/>0.72<br/>1.08<br/>0.72<br/>0.72<br/>1.20<br/>0.72<br/>0.72<br/>1.20<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td><td>C<br/>1.32<br/>1.32<br/>0.96<br/>1.30<br/>1.30<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>0.90<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>P</td><td>Volts: :<br/>hases: :<br/>Wires: :<br/>Wires:
:<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0</td><td>208/120<br/>3<br/>4<br/>1.32<br/>1.32<br/>0.90<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.54<br/>0.54<br/>0.54<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>Poles         1      <tr tr=""></tr></td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>Al.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Ratin</td><td></td></t<>   | Poles         1 <tr tr=""></tr>   
   
   | A<br>1.08<br>0.72<br>0.72<br>0.90<br>1.08<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0   |
B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>1.08<br>0.72<br>1.08<br>0.72<br>0.72<br>1.20<br>0.72<br>0.72<br>1.20<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.7 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208/120<br>3<br>4<br>1.32<br>1.32<br>0.90<br>0.90<br>1.08<br>0.90<br>1.08<br>0.54<br>0.54<br>0.54<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | Poles         1 <tr tr=""></tr>  | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A   
  | Al.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Ratin  |   |
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| KT       1       3         5       7       9         1       3       5         7       9       1         3       5       7         9       1       3         5       7       9         1       3       5         7       9       1         3       5       7         9       1       3         5       7       9         1       3       5         7       9       1         3       5       7         9       1       3         5       7       9         1       3       5         7       9       1         3       5       7         9       1       3         5       7       9         1       3       5         7       9       1         3       5       7         9       1       3         5       7       9         1       3       5         7       9       1    <  | Location: ELEC 1.111.05<br>Supply From: OLLD<br>Mounting: SURFACE<br>Enclosure: PER SPECIFIC<br>s:<br>Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC LAUNDRY 1.L1.01<br>REC RECH / PLUMB 1.L9.02<br>REC ROOM CORRIDOR 1.L11.04<br>REC ROOM CORRIDOR 1.L11.04<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS EQUIPMENT<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPACE   | Trip         20 A         20 A <t< td=""><td>Poles         1      1<td>A<br/>1.08<br/>0.72<br/>0.72<br/>0.96<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.54<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td><td>C<br/>1.32<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>14.8</td><td>P</td><td>Volts: 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:</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>Poles         1     
<tr td=""></tr></td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC ELEC 1.L11.05<br/>REC ELEC 1.L11.05<br/>REC ELEC ALTI.01<br/>REC ELEVATOR E.L11. 01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPACE</td><td></td></td></t<>   | Poles         1      1 <td>A<br/>1.08<br/>0.72<br/>0.72<br/>0.96<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.54<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td>
<td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td> <td>C<br/>1.32<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>14.8</td> <td>P</td> <td>Volts: : : : : : : : : : : : : : : : : : :</td> <td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td>Poles         1      <tr td=""></tr></td> <td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td> <td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC ELEC 1.L11.05<br/>REC ELEC 1.L11.05<br/>REC ELEC ALTI.01<br/>REC ELEVATOR E.L11. 01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPACE</td> <td></td>   
   | A<br>1.08<br>0.72<br>0.72<br>0.96<br>1.08<br>0.90<br>0.90<br>0.90<br>0.00<br>0.72<br>0.54<br>0.90<br>0.72<br>0.54<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  |
B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.7 | C<br>1.32<br>1.32<br>0.96<br>1.80<br>1.80<br>1.20<br>0.90<br>1.20<br>0.90<br>1.20<br>0.90<br>1.20<br>0.90<br>0.00<br>0.00<br>0.00<br>0.00<br>14.8  | P   | Volts: : : : : : : : : : : : : : : : : : :  |
208/120<br>3<br>4<br>C<br>1.32<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00   | Poles         1 <tr td=""></tr>  | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A   
  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC ELEC 1.L11.05<br>REC ELEC 1.L11.05<br>REC ELEC ALTI.01<br>REC ELEVATOR E.L11. 01<br>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br>LIT CABINET TEAM CORRIDOR 1.L3.01<br>OH DOOR ROOM 1.L3.05<br>EIH2 CTRL CLUB / TEAM MEETING ROOM<br>GEN JACKET HEATER<br>REC PITCHING MACHINES<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPACE  |   |
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| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>57<br>7<br>9<br>11<br>13<br>55<br>57<br>7<br>9<br>11<br>13<br>55<br>57<br>7<br>9<br>11<br>13<br>55<br>57<br>7<br>9<br>11<br>13<br>55<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57   | Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM DOCKERS<br>REC HOME TEAM BULLPEN 1.L11.01<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPACE | Trip         20 A         20 A <t< td=""><td>Poles         1</td><td>A<br/>1.08<br/>0.72<br/>0.96<br/>1.08<br/>0.96<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.54<br/>0.00<br/>0.54<br/>0.00<br/>0.54<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>0.78<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td><td>C<br/>1.32<br/>0.96<br/>1.32<br/>0.96<br/>1.30<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>P</td><td>Volts: : : : : : : : : : : : : : : : : :
:</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>1.32<br/>0.96<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>Poles         1</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11. 01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE</td><td></td></t<>   | Poles         1 
       1     
   | A<br>1.08<br>0.72<br>0.96<br>1.08<br>0.96<br>0.90<br>0.90<br>0.90<br>0.00<br>0.54<br>0.00<br>0.54<br>0.00<br>0.54<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  |
B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>0.78<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.7 | C<br>1.32<br>0.96<br>1.32<br>0.96<br>1.30<br>0.90<br>1.20<br>0.90<br>1.20<br>0.90<br>1.20<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | P   | Volts: : : : : : : : : : : : : : : : : : :  |
208/120<br>3<br>4<br>C<br>1.32<br>1.32<br>0.96<br>0.90<br>1.08<br>0.90<br>1.08<br>0.90<br>1.08<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00   | Poles         1  | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A   
  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC EXTERIOR<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC ELEVATOR E.L11. 01<br>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br>LIT CABINET TEAM CORRIDOR 1.L3.01<br>OH DOOR ROOM 1.L3.05<br>EIH2 CTRL CLUB / TEAM MEETING ROOM<br>GEN JACKET HEATER<br>REC PITCHING MACHINES<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE   |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>33<br>35<br>37<br>39<br>41<br>43<br>45<br>47<br>49<br>51<br>53<br>55<br>57<br>59<br>61<br>63<br>65<br>67<br>69<br>71<br>60<br>60<br>71<br>60<br>60<br>71<br>60<br>60<br>71<br>60<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>7  | Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC GOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM BILLPEN 1.L11.01<br>OVERHEAD COILING DOORS EQUIPMENT<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPACE<br>SPACE   | Trip         20 A         20 A <t< td=""><td>Poles         1     
1<td>A<br/>1.08<br/>0.72<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.90<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>P</td><td>Volts:         ases:         ases:         Vires:         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.72        
0.74</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>1.32<br/>0.96<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>Poles         1</td><td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC ELEC 1.L11.05<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11.01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE</td><td></td></td></t<> | Poles         1      1 <td>A<br/>1.08<br/>0.72<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.90<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td>
<td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td> <td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td> <td>P</td> <td>Volts:         ases:         ases:         Vires:         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.72         0.74</td> <td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>1.32<br/>0.96<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.90<br/>1.08<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.36<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td>Poles         1         1         1         1         1         1 
       1         1</td> <td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td> <td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC ELEC 1.L11.05<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11.01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE</td> <td></td> | A<br>1.08<br>0.72<br>0.90<br>1.08<br>0.90<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.90<br>0.72<br>0.54<br>0.90<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.7 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C<br>1.32<br>0.96<br>1.80<br>1.20<br>0.90<br>1.20<br>0.90<br>1.20<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.80<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | P   | Volts:         ases:         ases:         Vires:         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.72         0.74   | 208/120<br>3<br>4<br>C<br>1.32<br>1.32<br>0.96<br>0.90<br>1.08<br>0.90<br>1.08<br>0.90<br>1.08<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00   | Poles         1  
   | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC ELEC 1.L11.05<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC ELEVATOR E.L11.01<br>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br>LIT CABINET TEAM CORRIDOR 1.L3.01<br>OH DOOR ROOM 1.L3.05<br>EIH2 CTRL CLUB / TEAM MEETING ROOM<br>GEN JACKET HEATER<br>REC TVS PLAYER LOUNGE 1.L5.02<br>BROADCAST REC<br>REC PITCHING MACHINES<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE      |   |
| ote<br>KT<br>1<br>3<br>5<br>7<br>9<br>11<br>13<br>15<br>17<br>19<br>21<br>23<br>25<br>27<br>29<br>31<br>13<br>33<br>35<br>37<br>39<br>41<br>43<br>45<br>47<br>49<br>51<br>57<br>57<br>69<br>61<br>53<br>55<br>57<br>69<br>61<br>55<br>57<br>69<br>61<br>55<br>57<br>69<br>61<br>65<br>57<br>69<br>61<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC UC REF OFFICIALS LOUNGE<br>REC OC M 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L2.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC LAUNDRY 1.L1.01<br>OVERHEAD COILING DOORS EQUIPMENT<br>REC STO. 1.L11.07<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPACE<br>SPACE<br>Classification  | Trip         20 A         20 A <t< td=""><td>Poles         1      1<td>A<br/>1.08<br/>0.72<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54<br/>0.54<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>P</td><td>Volts: :<br/>nases: :<br/>Wires:
:<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.72<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.54<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>208/120<br/>3<br/>4<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5</td><td>Poles         1      1<td>Trip         20 A         20 A      <t< td=""><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11. 01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE</td><td></td></t<></td></td></td></t<>  | Poles         1      1 <td>A<br/>1.08<br/>0.72<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.54<br/>0.54<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td>
<td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td> <td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td> <td>P</td> <td>Volts: :<br/>nases: :<br/>Wires: :<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.72<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.54<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td>208/120<br/>3<br/>4<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5</td> <td>Poles         1      1<td>Trip         20 A         20 A      <t< td=""><td>A.I.C. Rating: 10 KAIC<br/>Mains
Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11. 01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE</td><td></td></t<></td></td>   | A<br>1.08<br>0.72<br>0.90<br>1.08<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54<br>0.54<br>0.54<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  |
B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.7 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 | 208/120<br>3<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   
   | Poles         1      1 <td>Trip         20 A         20 A      <t< td=""><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11. 01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE</td><td></td></t<></td> | Trip         20 A         20 A <t< td=""><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OPS &amp; FOOD SERVICE OFFICE<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC ROOM 1.L8.03, 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC AUX LOCKER 1.L2.01<br/>REC ELEC 1.L11.05<br/>REC EXTERIOR<br/>REC BROADCAST POWER<br/>REC BROADCAST POWER<br/>REC ELEVATOR E.L11. 01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE</td><td></td></t<> | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>MCB Rating: 150 A<br>REC OPS & FOOD SERVICE OFFICE<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC ROOM 1.L8.03, 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC AUX LOCKER 1.L2.01<br>REC ELEC 1.L11.05<br>REC EXTERIOR<br>REC BROADCAST POWER<br>REC BROADCAST POWER<br>REC ELEVATOR E.L11. 01<br>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br>LIT CABINET TEAM CORRIDOR 1.L3.01<br>OH DOOR ROOM 1.L3.05<br>EIH2 CTRL CLUB / TEAM MEETING ROOM<br>GEN JACKET HEATER<br>REC TVS PLAYER LOUNGE 1.L5.02<br>BROADCAST REC<br>REC PITCHING MACHINES<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE |   |
| ote     KT     1     3     5     7     9     11       1     3     5     7     9     11     13     15     17       1     3     5     7     9     11     13     15     17       1     3     5     7     9     11     13     15     17       1     3     5     7     9     11     13     15     17       1     3     5     57     10     13     15     17       1     3     5     57     10     13     13     15       1     3     5     57     10     13     13     15   | Circuit Description<br>REC SWITCHED OPS & FOOD SERVICE<br>REC UC REF OFFICIALS LOUNGE<br>REC OFFICIALS TLT B 1.L12.01<br>REC ROOM 1.L14.01<br>EWC<br>REC TRAINING ROOM 1.L8.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REC REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC LAUNDRY 1.L1.01<br>REC REC PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC LOUNGE TEAM LOCKERS<br>REC LOME TEAM LOCKERS<br>REC LOUNGE TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM LOCKERS<br>REC HOME TEAM BULLPEN 1.L11.01<br>OVERHEAD COILING DOORS STORAGE<br>HOME DUGOUT FIELD CAMERA<br>OUTFIELD CAMERA TOWER<br>LIT SIGN HOME TEAM LOCKER ROOM<br>PLAYER LOUNGE / NUTRITION 1.L5.02<br>REC HOME TEAM FILM ROOM 1.L7.02<br>GEN BATT CHARGER<br>LIGHTING RELAY PANEL 1.L11.05<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE                         | Trip         20 A         20 A <t< td=""><td>Poles         1</td><td>A<br/>1.08<br/>0.72<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.72<br/>0.54<br/>0.90<br/>0.72<br/>0.54<br/>0.90<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>B<br/>1.00<br/>0.48<br/>0.78<br/>0.78<br/>1.08<br/>1.08<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.72<br/>0.7</td><td>C<br/>1.32<br/>0.96<br/>1.80<br/>1.80<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.90<br/>1.20<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.80<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>P</td><td>Volts: : :<br/>nases: : :<br/>Wires: :
:<br/>0.78<br/>0.78<br/>0.78<br/>0.78<br/>0.72<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.9</td><td>208/120<br/>3<br/>4<br/>C<br/>1.32<br/>1.32<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>1.08<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.90<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td><td>Poles         1      1<td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td><td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS LUINGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC COACAST POWER<br/>REC ELEVATOR E.L11.01<br/>REC ELEVATOR E.L11.01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE</td><td></td></td></t<>  | Poles         1  
   
  | A<br>1.08<br>0.72<br>0.90<br>1.08<br>0.90<br>0.90<br>0.90<br>0.72<br>0.54<br>0.90<br>0.72<br>0.54<br>0.90<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  |
B<br>1.00<br>0.48<br>0.78<br>0.78<br>1.08<br>1.08<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.7 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| P   | Volts: : :<br>nases: : :<br>Wires: : :<br>0.78<br>0.78<br>0.78<br>0.78<br>0.72<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.9   |
208/120<br>3<br>4<br>C<br>1.32<br>1.32<br>0.90<br>0.90<br>0.90<br>0.90<br>1.08<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.90<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00   | Poles         1      1 <td>Trip<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A</td> <td>A.I.C. Rating: 10 KAIC<br/>Mains Type: MCB<br/>Mains Rating: 150 A<br/>MCB Rating: 150 A<br/>REC OFFICIALS LOUNGE 1.L14.03<br/>REC OFFICIALS LUINGE 1.L14.03<br/>REC OFFICIALS TLT A 1.L12.02<br/>REC PITCHING MACHINES<br/>REC ICE TRAINING ROOM 1.L8.02<br/>REC COACHES LOCKER ROOM 1.L6.01<br/>REF PLAYER LOUNGE<br/>REC PLAYER LOUNGE<br/>REC HOME TEAM LOCKERS<br/>REC COACAST POWER<br/>REC ELEVATOR E.L11.01<br/>REC ELEVATOR E.L11.01<br/>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br/>LIT CABINET TEAM CORRIDOR 1.L3.01<br/>OH DOOR ROOM 1.L3.05<br/>EIH2 CTRL CLUB / TEAM MEETING ROOM<br/>GEN JACKET HEATER<br/>REC TVS PLAYER LOUNGE 1.L5.02<br/>BROADCAST REC<br/>REC PITCHING MACHINES<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE</td> <td></td>  | Trip<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A  | A.I.C. Rating: 10 KAIC<br>Mains Type: MCB<br>Mains Rating: 150 A<br>MCB Rating: 150 A<br>REC OFFICIALS LOUNGE 1.L14.03<br>REC OFFICIALS LUINGE 1.L14.03<br>REC OFFICIALS TLT A 1.L12.02<br>REC PITCHING MACHINES<br>REC ICE TRAINING ROOM 1.L8.02<br>REC COACHES LOCKER ROOM 1.L6.01<br>REF PLAYER LOUNGE<br>REC PLAYER LOUNGE<br>REC HOME TEAM LOCKERS<br>REC COACAST POWER<br>REC ELEVATOR E.L11.01<br>REC ELEVATOR E.L11.01<br>REC PLAYER LOUNGE / NUTRITION 1.L5.02<br>LIT CABINET TEAM CORRIDOR 1.L3.01<br>OH DOOR ROOM 1.L3.05<br>EIH2 CTRL CLUB / TEAM MEETING ROOM<br>GEN JACKET
HEATER<br>REC TVS PLAYER LOUNGE 1.L5.02<br>BROADCAST REC<br>REC PITCHING MACHINES<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE   |   |

Ра	nel Designation: 0HLE	)												
	Location: JANITOR Supply From: TH Mounting: SURFACE Enclosure: PER SPEC	Volts: 208/120 Wye Phases: 3 Wires: 4								A.I.C. Rating: Mains Type: Mains Rating: MCB Rating:	10 KAIC MCB 400 A 400 A			
Note	5:													
СКТ	Circuit Description	Trip	Poles	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	Poles	Trip	Circuit I	СК	
1 3	0HLR	100 A	3	10.27	10.66		12.60	12.61		3	100 A	1HLR		4
5						10.91			21.24					6
7				25.36			6.49							8
9	1HLF	225 A	3		24.31			2.60		3	150 A	2HLI		10
11				0.00		22.43	0.00		3.63	4	00.4			12
13	SPARE SPARE	20 A	1	0.00	0.00		0.00	0.00		1	20 A	SPARE		14
15	SPARE SDADE	20 A	1		0.00	0.00		0.00	0.00	1	20 A	SPARE		10
19	SPARE	20 A	1	0.00		0.00	0.00		0.00	1	20 A	SPARE		20
21	SPARE	20 A	1	0.00	0.00		0.00	0.00		1	20 A	SPARE		22
23	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE		24
25	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE		26
27	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE		28
29	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE		30
31	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE		32
33	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE		34
35	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE		36
37	SPACE			0.00			0.00					SPACE		38
39	SPACE				0.00			0.00				SPACE		40
41	SPACE					0.00			0.00			SPACE		42
		Tota Total	I Load: Amps:	54.7 461	.9 A	50.2 418	kVA .2 A	58.2 490	kVA .9 A					
Load	Classification	Conne	ected Lo	bad	Dem	and Fa	ctor	Estir	nated D	emand		Panel	Totals	
Motor	· · · · · · · · · · · · · · · · · · ·	16	953 VA			80.00%			13562	VA				
REC		87	'164 VA			55.74%			48582	VA		Total Conn. Load:	163118 VA	
KTCH	1	59	001 VA			65.00%			38351 \	VA		Total Est. Demand:	100495 VA	
												Total Conn.:	453 A	
												Total Est. Demand:	279 A	

Pa	nel Designation: 0LHL			Valte: 490/277 Wye						Vve A.I.C. Rating: 10 KAIC						
	Location: ELEC 1.L11.05 Supply From: MDP Mounting: SUPEACE						PI	Volts: hases: Wiros:	480/277 3 4	Wye		A.I.C. Rating: 10 KAIC Mains Type: MCB Mains Pating: 150 A				
	Enclosure: PER SPECIFIC	ATIONS						wires:	4		MCB Rating: 150 A					
Note	s:															
OVT		Tuin	Delee	A	B	C	A	B	C	Delee	Tuin		OKT			
1	LIGHTING ROOM 1.L11.05, 1.L9.02, 1.L11.06, LIGHTING FOOD SERVICE STORAGE 1.L11.03	20 A 20 A	1 1	0.62	0.75		0.90	(KVA)		1 1	20 A 20 A	LIGHTING BATTING CAGES	2			
5 7	LIGHTING ROOM 1.L7.02, 1.L8.02, 1.L8.03 LIGHTING ROOM 1.L6.01	20 A 20 A	1 1	1.26		0.58	0.54		0.99	1	20 A 20 A	LIGHTING TEAM CORRIDOR 1.L3.01 LIGHTING VISITING TEAM DUGOUT 1.R4.01	6 8			
9 11	LIGHTING SP2	40 A	2		7.31	7.31		8.53	8.53	2	45 A	LIGHTING SP1	10 12			
13 15 17		30 A	2	5.28	5.28	0.10	1.73	0.02	5.68	1	20 A 20 A	LIGHTING EXTERIOR STAIRS	14 16 18			
17 19 21	SPARE SPARE	20 A 20 A 20 A	1 1 1	0.00	0.00	0.10	5.68	1.17	5.00	2	30 A 20 A	LIGHTING SP3	20 22			
23 25	SPARE SPARE	20 A 20 A	1	0.00		0.00	0.00		0.00	1	20 A 20 A	SPARE SPARE	24 26			
27 29	SPARE SPARE	20 A 20 A	1 1		0.00	0.00		0.00	0.00	1	20 A 20 A	SPARE SPARE	28 30			
31 33 35	SPARE SPARE	20 A 20 A 20 A	1 1 1	0.00	0.00	0.00	0.00	0.00	0.00	1	20 A 20 A 20 A	SPARE SPARE	32 34 36			
37 39	SPACE SPACE	 		0.00	0.00	0.00	0.00	0.00	0.00			SPACE SPACE	38 40			
41	SPACE	 Tota	 Il Load:	16.0	kVA	0.00	kVA	23.2	0.00 kVA			SPACE	42			
		Tota	Amps:	57.	.8 A	91.	2 A	87.	7 A							
Load Light	I Classification	Conne 63	acted Lo 358 VA	bad	Dem	nand Fa 100.00%	<b>ctor</b>	Esti	nated E 63358 \	<b>)emand</b> √A		Total Conn. Load: 63358 VA				
												Total Est. Demand:     63358 VA       Total Conn.:     76 A				
												Total Est. Demand: 76 A				
Ра	Volts:       480/277 Wye       A.I.C. Rating:       22 KAIC         Supply From:       MDP       Phonese:       2															
	Supply From: MDP Mounting: SURFACE						PI	hases: Wires:	3 4			Mains Type: MCB Mains Rating: 800 A				
Note	Enclosure: PER SPECIFICATIONS MCB Rating: 800 A Notes:															
110(6	<del>.</del>															
скт	Circuit Description	Trip	Poles	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	Poles	Trip	Circuit Description	СКТ			
1 3 5	ACCU1	225 A	3	53.21	53.21	53 21	16.30	16.30	16 20	3	70 A	AHU1 SUPPLY FAN	2 4 6			
7 9	HP2	60 A	3	12.75	12.75	JU.Z	12.75	12.75	10.00	3	60 A	HP3	8 10			
11 13	TB2 CONCESSIONS 2.L10.02	20 A	1	4.00		12.75	8.00		12.75	1	40 A	TB3 TEAM STORE 2.L11.01	12 14			
15 17	TB3 TEAM STORE GIH1 HOME TEAM BULLPEN 1.L11.01	40 A 20 A	1	0.50	8.00	0.02	40.75	8.00	12.75	1	40 A	TB3 NORTHEAST TICKETING 2.L11.05	16 18			
19 21 23	TB1 CORRIDOR 1.L11.04 TB2 CORRIDOR 1.L11.04 TB3 CORRIDOR 1.L11.04	15 A 20 A 40 A	1 1 1	2.50	4.00	8.00	12.75	12.75	4.00	1	60 A	TB2 TRAINING ROOM 1   8 02	20 22 24			
25 25 27	TB3 TRAINING ROOM 1.L8.02 TB2 HEAD COACH'S OFFICE 3.L10.02	40 A 20 A	1 1 1	8.00	4.00	0.00	4.00	13.00	4.00	1	20 A 20 A 60 A	TB2 COACHES LOCKER ROOM 1.L6.01 TB4 HEAD COACH'S OFFICE 3.L10.02	24 26 28			
29 31	TB5 ASSISTANT COACH'S OFFICE 3.L10.01 TB3 OFFICIALS LOCKER	100 A 40 A	1 1	8.00		22.00	8.00		4.00	1	20 A 40 A	TB2 WORK / BREAK AREA 3.L8.04 TB3 CORRIDOR 1.L11.04	30 32			
33 35	TB3 AUX LOCKER 1.L2.01 TB3 PLAYER LOUNGE / NUTRITION 1.L5.02	40 A 40 A	1 1		8.00	8.00		8.00	13.00	1	40 A 60 A	TB3 PLAYER LOUNGE / NUTRITION 1.L5.02 TB4 MENS TLT. 3.L8.01	34 36			
37 39	TB4 PLAYER LOUNGE / NUTRITION 1.L5.02 TB6 TEAM CORRIDOR 1.L3.01	60 A 120 A	1	13.00	26.00	10.00	26.00	15.00	45.00	1	120 A		38 40			
41 43 45	FIH2 RELAY SUITE 1.314.01	60 A	3	10.00	10.00	13.00	15.00	7.51	15.00	3	70 A	EINZ RELAT OUTDOOR GLUB 3.L3.01	42			
47				1.33		10.00	7.51		7.51	3	35 A	EIH2 RELAY CLUB / TEA MEETING ROOM 3.L6.01	48			
51 53	SE1 MECH / PLUMB 1.L9.02	20 A	3		1.33	1.33		1.67	1.67	3	20 A	UH1 1.L9.02	52 54			
55 57	SE2 MECH / PLUMB 1.L9.02	20 A	3	1.33	1.33	4.00	1.67	1.67	4.07				56 58			
59 61 63	AHU1 EXHAUST FAN	25 A	3	5.85	5.85	1.33	1.67	0.50	1.07	3	20 A		60 62 64			
65 67				6.57		5.85	0.50		0.50	3	20 A	AHU1 HEAT WHEEL MOTOR	66 68			
69 71	AHU1 RETURN FAN	30 A	3		6.57	6.57		0.00	0.00	1	20 A 20 A	SPARE SPARE	70 72			
73 75 77	SPARE SPARE	20 A 20 A	1 1 1	0.00	0.00	0.00	0.00	0.00	0.00	1	20 A 20 A	SPARE SPARE	74 76 79			
79 81	SPACE SPACE	 		0.00	0.00	0.00	0.00	0.00	0.00		20 A 	SPARE SPACE SPACE	80 82			
83	SPACE	 Tota	 I Load:	240.	7 kVA	0.00	2 kVA	231.2	0.00 2 kVA			SPACE	84			
		Tota	Amps:	872	2.7 A	863	5.7 A	834	.6 A							
Load Moto	l Classification r	Conn 612 97	ected Lo 2527 VA 2500 VA	bad	Dem	nand Fa 80.00% 55 13%	ctor	Esti	nated E 490021 53750 \	Demand VA VA		Total Conn. Load: 710027 VA				
		51	000 17			00.1070			00700			Total Est. Demand:     543771 VA       Total Conn.:     854 A				
												Total Est. Demand: 654 A				
Pa	nol Designation: 01   D															
	Location: ELEC 1.L11.05						ы	Volts:	208/120	Wye		A.I.C. Rating: 10 KAIC				
	Mounting: SURFACE Enclosure: PER SPECIFIC	ATIONS						Wires:	4			Mains Rating: 800 A MCB Rating: 800 A				
Note	s:															
			1	Λ	D	ſ	Λ	P	ſ							
<b>СКТ</b>	Circuit Description	Trip	Poles	<b>(kVA)</b> 15.02	(kVA)	(kVA)	<b>(kVA)</b> 11.46	(kVA)	(kVA)	Poles	Trip	Circuit Description	<b>СКТ</b> 2			
3 5	0LLR	125 A	3		14.76	17.68		12.48	12.42	3	150 A	1LLR	4			
7 9	OLLF	100 A	3	1.38	1.08	1.00	17.57	13.09	11 4 -	3	100 A	1LLF	8			
11 13 15	OLLM	225 ^	3	19.66	23.27	1.26	7.66	5 19	11.15	3	60 ^	2HLF	12 14 16			
17 19		220 A		38.43	20.21	21.16	19.21	0.40	6.28		50 A		18 20			
21 23	BRUADCAST POWER CONNECTION A STO. 1.L11.07	400 A	3		38.43	38.43		19.21	19.21	3	200 A	BRUADCAST POWER CONNECTION B STO. 1.L11.07	22 24			
25 27	BROADCAST POWER CONNECTION SATELLITE UPLINK STO. 1.L11.07	100 A	3	9.61	9.61	0.5	0.00	0.00	0.5	1	20 A 20 A	SPARE SPARE	26 28			
29 31	SPARE	20 A	1	0.00	0.00	9.61	0.00	0.00	0.00	1	20 A 20 A	SPARE SPARE SPARE	30 32			
33 35 37	SPARE SPACE	20 A 20 A 	1 1 	0.00	0.00	0.00	0.00	0.00	0.00	1 1 	20 A 20 A 	SPARE SPACE	34 36 38			
39 41	SPACE SPACE			5.00	0.00	0.00	5.00	0.00	0.00			SPACE SPACE	40			
	·	Tota Tota	I Load: Amps:	140.0 116 <sup>-</sup>	0 kVA 7.0 A	137.4 114	4 kVA 5.3 A	137.2 1143	2 kVA 3.3 A			· · · · · · · · · · · · · · · · · · ·				
Load	Load Classification Connected Load I							Esti	nated E	)emand		Panel Totals				
REC KTC	, 	45 31 54	o va 3889 VA .743 VA			51.59% 65.00%			35583 v	VA VA		Total Conn. Load:414600 VATotal Est. Demand:234302 VA				
												Total Conn.:1151 ATotal Est. Demand:650 A				

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PROJECT NUMBER

60590790

SHEET TITLE ELECTRICAL PANEL SCHEDULES
- SHEET 1

 2
 12/12/2019
 ADDENDUM 2

 I/R
 DATE
 DESCRIPTION

**ISSUE/REVISION** 



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PROJECT



Marshall Baseball Electrical

	6		5	4	3
	Panel Designation: 1HLR Location: VENDOR COMMISSA Supply From: 0HLD Mounting: SURFACE Enclosure: PER SPECIFICATIONS	ARY 2.R1.04 Volts: 208/120 Wye Phases: 3 Wires: 4	A.I.C. Rating: 10 KAIC Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A	Panel Designation: 1LLF Location: CONCESSIONS 2.L10.02 Supply From: 0LLD Mounting: SURFACE Enclosure: PER SPECIFICATIONS	Volts: 208/120 WyeA.I.C. Rating: 10 KAICPhases: 3Mains Type: MCBWires: 4Mains Rating: 150 AMCB Rating: 150 A
D	CKT         Circuit Description         Trip         Poles         (k)           1         REC EXTERIOR         20 A         1         0.           3         REC MENS RESTROOM         20 A         1         0.           5         REC WRITING PRESS 3.R3.01         20 A         1         1           7         REC ROOM 3.R2.01, 3.R3.01         20 A         1         1           9         REC COPIER CORRIDOR 3.L2.05         20 A         1         1           11         REC REF CORRIDOR 3.L2.05         20 A         1         1           13         REC EMERITUS / VIS. AD SUITE 3.R1.04         20 A         1         1	A         B         C         A         B         C         Poles           .54         (kVA)         (kVA)         (kVA)         (kVA)         Poles           .54         0.72         (kVA)         1         1           1.26         0.72         1.08         1           1.26         1.44         1.08         1           .08         1.44         0.36         0.90         1           .08         1.80         0.90         1         1           .180         0.90         0.90         1         1           .32         0.90         0.90         1         1	TripCircuit DescriptionCKT20 AREC WOMENS RESTROOM220 AREC WRITING PRESS 3.R3.01420 AREC WRITING PRESS 3.R3.01620 AREC SWITCHED WORKROOM 3.R2.01820 AREC STUDENT RADIO 3.R1.031020 AREC VISITING RADIO 3.R1.021220 AREC HOME RADIO 3.R1.0114	KTCKTCircuit DescriptionTripPolesA (kVA)B (kVA)21MOBILE HOLDING CABINET20 A11.923ICE/SODA STATION20 A11.445WARMER, DRAWER TYPE20 A11.445WARMER, DRAWER TYPE20 A10.907WARMER, DRAWER TYPE20 A10.909CASH REGISTER/POS SYSTEM20 A10.6011REACH-IN REFRIGERATOR - TWO DOOR20 A11.92413PRETZEL WARMER20 A11.92	C (kVA)A (kVA)B (kVA)C (kVA)PolesTripCircuit DescriptionCKT1.44120 AICE/SODA STATION241.44120 ASODA SYSTEM40.9040.90120 ASODA SYSTEM40.9061.44120 ACASH REGISTER/POS SYSTEM60.606120 ACASH REGISTER/POS SYSTEM80.7871.44120 APRETZEL CABINET121.927120 APOPCORN POPPER14
	15       REC STUDENT RADIO 3.R1.03       20 A       1         17       REC VISITING RADIO 3.R1.02       20 A       1         19       REC HOME RADIO 3.R1.01       20 A       1       0.         21       REC TV BOOTH 3.L1.02       20 A       1       0.         23       REC PA ANNOUNCER/ OFFICIAL SCORER       20 A       1       0.         25       REC SCOREBOARD / SOUND / REPLAY 3.L1.04       20 A       1       0.         27       REC ROOM 3.L2.01, 3.L2.02, 3.L3.01       20 A       1       0.         29       REC SUITE 1 3.L4.01       20 A       1       0.         31       REC SUITE 2 3.L4.02       20 A       1       0.         33       ACCESS CONTROL 3.L2.05       20 A       1       0.	0.78       0.78       0.72       1         0.78       0.78       0.72       1         .78       0.78       0.90       1       1         .78       0.90       1.08       1         0.90       1.08       1       1         .78       0.90       1.08       1         .78       0.90       1.08       1         .90       0.72       1.08       1         .96       0.36       1.00       0.42       1         .96       0.96       0.42       1       1         .96       0.96       0.18       1       1         .96       0.05       2.10       2.10       3	20 A         REC ROOM 3.L1.01, 3.L2.05         16           20 A         REC TV BOOTH 3.L1.02         18           20 A         REC PA ANNOUNCER/ OFFICIAL SCORER         20           20 A         REC ROOM 3.L1.04, 3.L2.05         22           20 A         REC UC REF SUITE 1 3.L4.01         24           20 A         REC UC REF SUITE 2 3.L4.02         26           20 A         REC OUTDOOR CLUB 3.L3.01         28           20 A         EIH2 CONTROLS OUTDOOR CLUB 3.L3.01         30           35 A         MAU1         34	10       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       1102       110       1102       110       1102       110       1102       1102       110       1102       110       1102       110       1102       110       1102       110	11.02       0.86       1       20 A       FOR OCTATION LAY       11         0       0.86       1       20 A       BOTTLED BEVERAGE REFRIGERATOR - ONE       16         0.60       3.96       3       50 A       COUNTERTOP STEAMER       18         0.24       0.24       1       20 A       INTERIOR TV CONCESSIONS 2.L10.02       24         0.24       0.36       1       20 A       EIH1 CTRL CONCESSIONS 2.L10.02       24         0.36       1       20 A       SPARE       28         2.08       0.00       1       20 A       SPARE       30         0.00       1       20 A       SPARE       32         0.00       1       20 A       SPARE       32         0.00       1       20 A       SPARE       32
	35         HOME PLATE PITCH CLOCK         20 A         1           37         FIELD CAMERA 3.L1.01         20 A         1         0.           39         FIELD CAMERA 3.L1.01         20 A         1         0.           41         REC VENDOR COMMISSARY 2.R1.04         20 A         1         0.           43         SPARE         20 A         1         0.           45         SPARE         20 A         1         0.           47         SPARE         20 A         1         0.           51         SPARE         20 A         1         0.           53         SPARE         20 A         1         0.           53         SPARE         20 A         1         0.	0.18         2.10           .80         0.18         1           0.80         0.18         1           0.80         0.36         1           0.80         0.36         1           0.80         0.36         1           0.80         0.00         0.12         1           .00         0.00         0.00         1           .00         0.00         0.00         1           .00         0.00         0.00         1           .00         0.00         1         1           .00         0.00         1         1           .00         0.00         1         1	3620 AREC HOME PLATE BOX3820 AREC OUTDOOR CLUB 3.L3.014020 ALIT SIGN OUTDOOR CLUB 3.L3.014220 ASPARE4420 ASPARE4620 ASPARE4820 ASPARE5020 ASPARE5220 ASPARE54	6       35       SPARE       20 A       1       4         37       SPACE         0.00         39       SPACE         0.00         41       SPACE         0.00         4       Fotal Load:       17.6 kVA       148.9 A         6       Total Amps:       148.9 A         7       Load Classification       Connected Load       Der         0       0 VA       REC       7810 VA       148.9 A	0.00       0.00       1       20 A       SPARE       36         0.00         SPACE       38         0       0.00         SPACE       40         0.00       0.00         SPACE       40         0.00       0.00         SPACE       42         13.1 kVA       11.1 kVA       11.1 kVA       42       42         13.1 kVA       11.1 kVA       92.9 A        SPACE       42         mand Factor       Estimated Demand       Panel Totals          0.00%       0 VA       Total Conn. Load:       41803 VA          100.00%       7810 VA       Total Conn. Load:       41803 VA
	55       SPACE         0.         57       SPACE            59       SPACE            Total Load: Total Amps:         Total Load: Total Amps:         Load Classification         Connected Load         Motor       6425 VA         REC       40025 VA	.00       0.00          0.00       0.00          12.6 kVA       12.6 kVA       21.2 kVA         105.0 A       105.1 A       177.0 A         Estimated Demand         80.00%       5140 VA         62.49%       25013 VA	SPACE         56            SPACE         58            SPACE         60           Panel Totals           Total Conn. Load: 46450 VA           Total Est. Demand: 30153 VA		65.00%     22095 VA     Total Est. Demand:     29905 VA       Total Conn.:     116 A       Total Est. Demand:     83 A
С	Panel Designation: 1LLR Location: ELECT. / IDF 2.L11.03 Supply From: 0LLD Mounting: SURFACE	Volts: 208/120 Wye Phases: 3 Wires: 4	Total Conn.:       129 A         Total Est. Demand:       84 A         A.I.C. Rating:       10 KAIC         Mains Type:       MCB         Mains Rating:       150 A	Panel Designation: 1RLF Location: CONCESSIONS 2.R8.01 Supply From: 1RLR Mounting: SURFACE	Volts:       208/120 Wye       A.I.C. Rating:       10 KAIC         Phases:       3       Mains Type:       MCB         Wires:       4       Mains Rating:       225 A
	Enclosure: PER SPECIFICATIONS         Notes:       CKT       Circuit Description       Trip       Poles       (k')         1       REC LOBBY       20 A       1       0.         3       REC NORTHEAST TICKETING 2.L11.05       20 A       1       0.         5       REC ROOM 2.L9.03, 2.L9.02, 2.L8.01       20 A       1       0.	A         B         C         A         B         C         KVA           VA)         (kVA)         (kVA)         (kVA)         (kVA)         Poles           .96         0.72         0.72         1           1.08         0.90         0.36         1	MCB Rating: 150 ATripCircuit DescriptionCKT20 AREC NORTHEAST TICKETING 2.L11.05220 AREC TEAM STORE420 AREC TEAM STORE 2.L11.016	Enclosure: PER SPECIFICATIONSNotes:Notes:KTCKTCircuit DescriptionTripPolesA (kVA)B (kVA)1MOBILE HOLDING CABINET20 A11.923WORK TABLE W/ SINK20 A11.925ICE/SODA STATION20 A11.92	C       A       B       C       Poles       Trip       Circuit Description       CKT         (kVA)       (kVA)       (kVA)       1       20 A       MOBILE HOLDING CABINET       2         1.92       1       1       20 A       MOBILE HOLDING CABINET       2         1.44       1       20 A       ICE/SODA STATION       4
	7       REC SWITCHED HEAD COACH'S OFFICE       20 A       1       0.         9       REC HEAD COACH'S OFFICE 3.L10.02       20 A       1       1         11       REC SWITCHED ASSISTANT COACH'S OFFIC       20 A       1       1         13       EWC CLUB / TEAM MEETING ROOM 3.L6.01       20 A       1       0.         15       REC ROOM 3.L8.03, 3.L9.01       20 A       1       0.         17       REC ROOM 3.L9.01, 3.L9.02       20 A       1       1         19       REC REF WORK / BREAK AREA 3.L8.04       20 A       1       1         21       REC ROOM 3.L9.03, 3.L9.04, 3.L6.01       20 A       1       1         23       DISPOSER WORK/BREAK AREA 3.L8.04       20 A       1       1         25       REC FLOOR BOX CLUB / TEAM MEETING       20 A       1       0	.72 $0.36$ $0.36$ $1.0$ $1$ 1.14 $1.08$ $1.0$ $1$ 0.72 $0.90$ $1$ .48 $0.72$ $0.90$ $1$ .48 $0.96$ $0.36$ $1$ 0.96 $0.36$ $1$ $0.96$ $0.36$ $1$ $0.96$ $0.36$ $1$ $0.72$ $1.14$ $0.72$ .80 $0.36$ $1$ $0.72$ $1.80$ $1$ $0.72$ $1.80$ $1$ .54 $1.80$ $1.2$	20 A         REC FLOOR BOXES HEAD COACH'S OFFICE         8           20 A         REC SWITCHED ROOM 3.L10.01, 3.L9.02         10           20 A         REC SWITCHED ROOM 3.L10.01, 3.L9.02         10           20 A         REC SWITCHED ROOM 3.L8.04, 3.L8.03         12           20 A         REC ROOM 3.L10.01, 3.L9.02         14           20 A         REC ROOM 3.L10.01, 3.L9.02         14           20 A         REC COUNTERTOP WORK / BREAK AREA         16           20 A         REC ROOM 3.L8.04, 3.L8.05         18           20 A         REC ROOM 3.L8.01, 3.L8.02         20           20 A         REC ROOM 3.L8.01, 3.L8.02         20           20 A         REC CLUB / TEAM MEETING ROOM 3.L6.01         24           20 A         REC CLUB / TEAM MEETING ROOM 3.L6.01         24           20 A         MICROWAVE WORK/BREAK AREA 3.L8.04         26	7         SODA SYSTEM         20 A         1         1.44           9         WARMER, DRAWER TYPE         20 A         1         0.90           11         WARMER, DRAWER TYPE         20 A         1         0.90           11         WARMER, DRAWER TYPE         20 A         1         0.90           13         CASH REGISTER/POS SYSTEM         20 A         1         0.60           15         CASH REGISTER/POS SYSTEM         20 A         1         0.60           17         CASH REGISTER/POS SYSTEM         20 A         1         0.60           17         CASH REGISTER/POS SYSTEM         20 A         1         1.92           20         1         PRETZEL CABINET         20 A         1         1.92           21         PRETZEL CABINET         20 A         1         1.44           23         PRETZEL WARMER         20 A         1         1.92           25         POPCORN POPPER         20 A         1         1.92	0.90       1       20 A       WARMER, DRAWER TYPE       8         0.90       0.90       1       20 A       WARMER, DRAWER TYPE       10         0.90       0.90       1       20 A       WARMER, DRAWER TYPE       10         0.90       0.60       1       20 A       CASH REGISTER/POS SYSTEM       12         0.60       1       20 A       CASH REGISTER/POS SYSTEM       14         0.60       1       20 A       CASH REGISTER/POS SYSTEM       16         0.60       1       20 A       CASH REGISTER/POS SYSTEM       16         0.60       1       20 A       MENU BOARD       18         0.60       1.92       1       20 A       REACH-IN REFRIGERATOR - TWO DOOR       20         1.92       1.44       1       20 A       PRETZEL CABINET       22         1.92       1.92       1       20 A       POPCORN POPPER       24         1.92       1       20 A       BOTTLED BEVERAGE REFRIGERATOR - ONE       26
	27       REC UC REF SUITE 4 3.15.02       20 A       1         29       REC UC REF SUITE 3 3.15.01       20 A       1         31       EIH2 CTRL POWER SUITE 2 3.14.02       20 A       1       0.         33       REC THIRD BASE CONCOURSE FOOD CART       20 A       1       0.         35       EIH2 CTRL POWER SUITE 1 3.14.01       20 A       1       0.         37       ILLUMINATED SIGNAGE CONCOURSE 2.11.01       20 A       1       0.         39       ILLUMINATED SIGNAGE       20 A       1       0.         41       REC IT 1 ELECT. / IDF 2.111.03       20 A       1       0.         43       REC WALL ELECT. / IDF 2.111.03       20 A       1       0.         45       SPARE       20 A       1       0.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20 AREC FLOOR BOX CLUB / TEAM MEETING2820 AREC SUITE 4 3.L5.023020 AREC SUITE 3 3.L5.013220 AOVERHEAD COILING DOOR CONCESSIONS3420 AREC WORK / BREAK AREA 3.L8.043620 AEIH2 CTRL POWER SUITE 3 3.L5.013820 AEIH2 CRTL POWER SUITE 4 3.L5.024020 ALIT SIGN RECEPTION AREA4220 ARPL CONTROL POWER NORTHEAST4420 ASPARE46	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.86       1       20 A       BOTTLED BEVERAGE REFRIGERATOR - ONE       28         0.60       0.60       1       20 A       NACHO CHEESE DISPENSER       30         0.80       0.80       1       20 A       PIZZA PREP REFRIGERATOR       32         0.80       1.48       1       20 A       PIZZA PREP REFRIGERATOR       34         0.97       1.48       1       20 A       WORKTOP REFRIGERATOR       34         0.97       1.80       1       20 A       REC THIRD PLATE FOOD CART       36         0.60       3       20 A       REC PORTABLE GRILL       40         3.96       0.60       3       20 A       REC PORTABLE GRILL       40         3.96       0.60       3       20 A       REC PORTABLE GRILL       40
В	47       SPARE       20 A       1         49       SPARE       20 A       1       0         51       SPARE       20 A       1       0         53       SPARE       20 A       1       0         55       SPACE         0         57       SPACE         0         59       SPACE         Total Load:         Total Amps:	0.00       0.00       0.00       1         .00       0.00       0.00       1         .00       0.00       1       1         .00       0.00       0.00       1         .00       0.00       0.00       1         .00       0.00       0.00       1         .00       0.00       0.00          0.00       0.00           11.5 kVA       12.5 kVA       12.4 kVA         95.5 A       105.2 A       104.7 A	20 A       SPARE       48         20 A       SPARE       50         20 A       SPARE       50         20 A       SPARE       52         20 A       SPARE       52         20 A       SPARE       54          SPACE       56          SPACE       58          SPACE       60	47       EIH1 CTRL CONCESSIONS 2.R8.01       20 A       1       4         49       REC EXTERIOR       20 A       1       0.18         51       SPARE       20 A       1       0.00         53       SPARE       20 A       1       0.00         55       SPARE       20 A       1       0.00         57       SPARE       20 A       1       0.00         59       SPARE       20 A       1       0.00         Total Load:         Total Amps:	9.38       0.60       0.60       48         2.08       2.08       3       35 A       EIH1 RELAY CONCESSIONS 2.R8.01       50         0.00       2.08       3       35 A       EIH1 RELAY CONCESSIONS 2.R8.01       52         0.00       1       20 A       SPARE       56         0.00       1       20 A       SPARE       58         0.00       0.00       1       20 A       SPARE       58         0.00       0.00       1       20 A       SPARE       60         23.0 kVA       31.3 kVA       11       20 A       SPARE       60         191.5 A       262.8 A       51       51       51       51
	Load Classification       Connected Load         Motor       920 VA         REC       35440 VA	Demand Factor         Estimated Demand           80.00%         736 VA           64.11%         22720 VA	Panel Totals         Total Conn. Load:       36360 VA         Total Est. Demand:       23456 VA         Total Conn.:       101 A         Total Est. Demand:       65 A	Load Classification       Connected Load       Der         Motor       2746 VA       17605 VA         REC       17605 VA       17605 VA         KTCH       58293 VA       17605 VA	mand Factor         Estimated Demand         Panel Totals           80.00%         2196 VA            78.40%         13803 VA         Total Conn. Load:           65.00%         37890 VA         Total Est. Demand:           53889 VA         Total Conn.:         218 A           Total Est. Demand:         150 A
	Panel Designation: 1RLR Location: SOUTHWEST TICKETING 2.R12.02 Supply From: TR Mounting: SURFACE Enclosure: PER SPECIFICATIONS Notes:	Volts: 208/120 Wye Phases: 3 Wires: 4	A.I.C. Rating: 10 KAIC Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A	Panel Designation: 1LHL Location: NORTHEAST TICKETING 2.L11.05 Supply From: MDP Mounting: SURFACE Enclosure: PER SPECIFICATIONS	Volts: 480/277 WyeA.I.C. Rating: 10 KAICPhases: 3Mains Type: MCBWires: 4Mains Rating: 100 AMCB Rating: 60 A
2	CKTCircuit DescriptionTripPoles(k')1REC 5TH AVE ENTRY TICKETING20 A10.3REC IT RACK 5TH AVE ENTRY TICKETING20 A10.5HP125 A217HP125 A219ACCESS CONTROL 5TH AVE ENTRY20 A111REC EXTERIOR TV CONCESSIONS 2.R8.0120 A113REC CONCESSIONS 2.R8.0120 A115ILLUMINATED SIGNAGE20 A117OUTFIELD PITCH CLOCK20 A119RPR CONTROL POWER20 A1	A VA)B (kVA)C (kVA)A (kVA)B (kVA)C (kVA)Poles.72 $(kVA)$ $24.33$ $(kVA)$ $Poles$ .72 $(1)$ $24.33$ $(kVA)$ $22.98$ $(kVA)$ 0.15 $1.77$ $22.98$ $31.33$ $3$ .77 $1.77$ $0.90$ $(1)$ $1$ 0.15 $0.90$ $0.11$ $2$ .74 $0.48$ $0.11$ $2$ .54 $0.60$ $0.54$ $1.80$ $1$ .54 $0.60$ $0.18$ $1.80$ $1$ .18 $0.00$ $0.80$ $1$	TripCircuit DescriptionCKT225 A1RLF2225 A1RLF46620 AREC 5TH AVE ENTRY TICKETING815 AFC22 5TH AVE ENTRY TICKETING1012121220 AREC CONCESSIONS 2.R8.011420 AREC RIGHT FIELD PARTY DECK FOOD CART1620 ASCOREBOARD1820 ASPARE20	KT       CKT       Circuit Description       Trip       Poles       A       B         1       LIGHTING ROOM 2.L11.05       20 A       1       1.10         3       LIGHTING ROOM 2.R1.04       20 A       1       0.96         5       LIGHTING ROOM 3.L9.03       20 A       1       0.96         7       LIGHTING ROOM 3.L4.03, 3.L4.02, 3.L4.01,       20 A       1       0.98         9       LIGHTING ROOM 3.L2.01 3.L1.04       20 A       1       0.98         11       SPARE       20 A       1       0.98         13       SPARE       20 A       1       0.00         15       SPARE       20 A       1       0.00         17       SPARE       20 A       1       0.00         19       SPARE       20 A       1       0.00	C         A         B         C         Trip         Circuit Description         CKT           1.48         1         20 A         LIGHTING CONCOURSE         2           0.73         0.00         1         20 A         SPARE         4           0.73         1.17         1         20 A         LIGHTING ROOM 3.L7.01, 3.L8.05         6           0.23         1         20 A         LIGHTING OUTDOOR CLUB 3.L3.01         8           0.00         1         20 A         SPARE         12           0.00         1         20 A         LIGHTING ROOM 3.L7.01, 3.L8.05         6           0.23         0.69         1         20 A         LIGHTING OUTDOOR CLUB 3.L3.01         8           0.00         0.00         1         20 A         SPARE         12           0.00         0.00         1         20 A         SPARE         12           0.00         1         20 A         SPARE         14           0.00         1         20 A         SPARE         16           0.00         0.00         1         20 A         SPARE         16           0.00         0.00         1         20 A         SPARE         20<
А	21       SPARE       20 A       1         23       SPARE       20 A       1         25       SPARE       20 A       1       0         27       SPARE       20 A       1       0         29       SPARE       20 A       1       0         31       SPARE       20 A       1       0         33       SPARE       20 A       1       0         35       SPARE       20 A       1       0         37       SPACE         0         39       SPACE         1         41       SPACE	0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00         1           0.00         0.00            0.00         0.00            0.00         0.00            0.00         0.00            0.00         0.00            0.00         0.00            29.0 kVA         25.8 kVA         34.7 kVA	20 A       SPARE       22         20 A       SPARE       24         20 A       SPARE       26         20 A       SPARE       28         20 A       SPARE       30         20 A       SPARE       30         20 A       SPARE       30         20 A       SPARE       30         20 A       SPARE       32         20 A       SPARE       34         20 A       SPARE       36          SPACE       38          SPACE       40          SPACE       42	2       21       SPARE       20 A       1       0.00         23       SPARE       20 A       1       0.00         25       SPARE       20 A       1       0.00         25       SPARE       20 A       1       0.00         27       SPARE       20 A       1       0.00         29       SPARE       20 A       1       0.00         29       SPARE       20 A       1       0.00         31       SPARE       20 A       1       0.00         33       SPARE       20 A       1       0.00         33       SPARE       20 A       1       0.00         35       SPARE       20 A       1       0.00         35       SPARE       20 A       1       0.00         39       SPACE         0.00         21       H SPACE         0.00         21       SPACE         0.00         22       41       SPACE         0.00         23       SPACE          0.00         24	Image: Non-Section of the section of the se
	Load Classification       Connected Load         Motor       6510 VA         REC       24645 VA         KTCH       58293 VA	Z45.3 A         Z15.0 A         293.0 A           Demand Factor         Estimated Demand           80.00%         5208 VA           70.29%         17323 VA           65.00%         37890 VA	Panel Totals         Total Conn. Load:       89448 VA         Total Est. Demand:       60421 VA         Total Conn.:       248 A         Total Est. Demand:       168 A	Total Amps:       14.4 A         Load Classification       Connected Load       Der         Lighting       8398 VA       1         Image: Imag	S.S.A       0.S.A         mand Factor       Estimated Demand       Panel Totals         100.00%       8398 VA
inted o	n % Post-Consumer 6		5	Λ	2

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## Panel Designation: 1HLF

Load Classification

Motor

KTCH

REC

Lighting

Load Classification

Enclosure: PER SPECIFICATIONS A B C A B C Trip Poles (kVA) (kVA) (kVA) (kVA) (kVA) (kVA) Poles Trip СКТ **Circuit Description Circuit Description**  
 20 A
 1
 1.92
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 20 A
 MOBILE HOLDING CABINET

 20 A
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 0.90
 1.44
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 20 A
 ICE/SODA STATION
 1 WORK TABLE W/ SINK 

 1
 WORK TABLE W/SINK
 20 A
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 <tr 41 EIH1 CTRL CONCESSIONS 2.R1.02 43 SPARE 45 SPARE 47 SPARE 49 SPARE 51 SPARE 53 SPARE 55 SPACE 57 SPACE 59 SPACE Total Amps: 213.7 A 204.9 A 186.9 A

Connected Load

0 VA

13095 VA

59001 VA

Mounting: SURFACE

Location: CONCESSIONS 2.R1.02 Supply From: 0HLD

												Total Est. Demand: 139 A
Pane	el Designation: 1Rl	ΗL										
	Location: SOUTH Supply From: MDP Mounting: SURFA Enclosure: PER SI			P۲	Volts: 4 nases: 3 Wires: 4	480/277 3 4		A.I.C. Rating: 10 KAIC Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A				
Notes:												
скт	Circuit Description	Trip	Poles	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	Poles	Trip	Circuit Description
1	HTING SP1	45 A	2	8.53			0.07			1	20 A	LIGHTING ENTRY TICKETING
3		+5 A	2		8.53			0.02		1	20 A	LIGHTING EXTERIOR STAIRS
		40 A	2	Z.31	$\sim$	7.31	5.68		5.68	2	30 A	LIGHTING SP3
9 LIC	HTING 2.R8.01	20 A	1		0.38	5		5.28		2	20.4	
TI SP	ARE	20 Å	mm	n r	$\mathcal{P}$	0.00			5.28		30 A	LIGHTING SP4
13 SP/	ARE	20 A	1	0.00			0.00			1	20 A	SPARE
15 SP/	ARE	20 A	1		0.00			0.00		1	20 A	SPARE
17 SP	ARE	20 A	1			0.00			0.00	1	20 A	SPARE
19 SP/	ARE	20 A	1	0.00			0.00			1	20 A	SPARE
21 SP/	ARE	20 A	1		0.00			0.00		1	20 A	SPARE
23 SP/	ARE	20 A	1			0.00			0.00	1	20 A	SPARE
25 SP/	ARE	20 A	1	0.00			0.00			1	20 A	SPARE
27 SP/	ARE	20 A	1		0.00			0.00		1	20 A	SPARE
29 SP/	ARE	20 A	1			0.00			0.00	1	20 A	SPARE
31 SP	ARE	20 A	1	0.00			0.00			1	20 A	SPARE
33 SP/	ARE	20 A	1		0.00			0.00		1	20 A	SPARE
	ARE	20 A	1			0.00			0.00	1	20 A	SPARE
35 SP			1				0.00					SPACE
35 SP. 37 SP.	ACE			0.00			0.00					SFACE
35 SP. 37 SP. 39 SP.	ACE			0.00	0.00		0.00	0.00				SPACE

Total Load: 21.6 kVA 14.2 kVA 18.3 kVA 
 Total Amps:
 80.2 A
 51.3 A
 68.2 A

54059 VA

Connected Load Demand Factor Estimated Demand

100.00%

54059 VA

Demand Factor

88.18%

65.00%

0.00%

Estimated Demand

0 VA

11548 VA

38351 VA

Phases: 3 Wires: 4

Volts: 208/120 Wye

A.I.C. Rating: 10 KAIC Mains Type: MCB Mains Rating: 225 A MCB Rating: 225 A

Panel Totals

Panel Totals

Total Conn. Load: 54059 VA

Total Est. Demand: 54059 VA Total Conn.: 65 A

Total Est. Demand: 65 A

Total Conn. Load: 72096 VA

Total Est. Demand: 49898 VA

Total Conn.: 200 A

СКТ

4

46

48

52

54

56

58

60

СКТ

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6 8 10

12 14

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24

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28 30

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38

40

42

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SHEET NUMBER

**PROJECT NUMBER** 

60590790

SHEET TITLE ELECTRICAL PANEL SCHECULES - SHEET 2

2 12/12/2019 ADDENDUM 2 I/R DATE DESCRIPTION

**ISSUE/REVISION** 



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THE HERD

PROJECT

AECON

Marshall Baseball Electrical

MAXIMUM	FEEDER	NUMBER	C	ONDUCTOR SI	ZE	CONDUIT	MAXIMUM	FEEDER	NUMBER						
OCPD	NUMBER	OF SETS	PHASE(3/C)	NEUTRAL	EQUIPMENT GROUND	SIZE	OCPD	NUMBER	OF SETS	PH					
15 / 20	1	1	12		12	3/4"	500	18	2						
10720	1N	1	12	12	12	5/4		18N	2						
25 / 30	2	1	10		10	3///"	600	19	2						
237 30	2N	I	10	10	10	5/4	000	19N	2						
25 / 40	3	1	0		10	3/4"	700	20	2						
55740	3N		0	8	10	1"	700	20N	2						
45 / 50	4		6		10	4"	000	21	0						
45 / 50	4N		0	6	10	1	800	21N	3						
00 / 70	5					4 4 (4)	4000	22	0						
60 / 70	5N	1	4	4	8	1-1/4"	1000	22N	3						
	6							23							
80	6N	1	3	3	8	1-1/4"	1200	23N	3						
	7					1-1/4"		24							
90	7N	1	2	2	- 8	1-1/2"	1600	24N	4						
100 / 110 /	8							25							
125	8N	1	1	1	6	1-1/2"	2000	25N	5						
	9					1-1/2"		26							
150	9N	1	1/0	1/0	6	2"	2500	26N	6						
	10							27							
175	10N	1	2/0	2/0	6	2"	3000	27N	8						
	11							28							
200	11N	1	3/0	3/0	6	2"	4000	28N	10						
	12					2"		29							
225	12N	1	4/0	4/0	- 4	2-1/2"	5000	29N	12						
	13									1					
250	13N	1	250	250	- 4	2-1/2"									
	14					2-1/2"									
300	14N	1	350	350	- 3	3"									
	15					3"									
350	15N	1	500	500	- 3	3-1/2"									
	16					2"									
400	16N	2	3/0	3/0	- 3	2-1/2"									
	17					2"									
450	···	2	4/0		- 2										

4/0

## **LIGHTING FIXTURE SCHEDULE GENERAL NOTES**

A. ALL RECESSED LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING USING A MINIMUM OF (2) SUPPORT WIRES PER FIXTURE AT OPPOSITE CORNERS. UTILIZING THE SAME SIZE WIRE BEING USED TO SUPPORT THE CEILING GRID.

2-1/2"

B. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL REQUIRED OPTIONS AND ACCESSORIES TO INSTALL FIXTURES IN DRYWALL CEILINGS OR ON WALLS/CEILINGS.

C. PROVIDE FIXTURE WITH FACTORY FURNISHED PENDANTS AS REQUIRED. CONTRACTOR SHALL DETERMINE PENDANT LENGTHS REQUIRED BY REFERENCING THE MOUNTING HEIGHTS NOTED ON THE LIGHTING PLANS AND COORDINATED WITH ARCHITECTURAL PLANS.

D. ALL LED'S SHALL BE A MINIMUM 80 CRI UNLESS NOTED OTHERWISE.

17N

E. CONTRACTOR SHAL COORDINATE EXACT CEILING TYPES PRIOR TO ORDERING. PROVIDE REQUIRED FLANGE KITS FOR FIXTURES INSTALLED IN HARD CEILINGS. F. ALL DRIVERS SHALL BE 10% DIMMING CAPABLE UNLESS NOTED OTHERWISE.

G. ALL FINISHES SHALL BE COORDINATED WITH THE ARCHITECTURAL DESIGN LEAD PRIOR TO ORDERING.

$\sum_{i=1}^{n}$	$\frown \frown$	$\searrow \frown$	$\overline{\mathbf{A}}$	$\searrow$	$\searrow \frown$	$\searrow \frown$	 $\overline{\mathbf{A}}$	$\searrow \frown$	$\searrow \frown$	$\searrow \frown$	$\searrow$	$\overline{\mathbf{A}}$	$\searrow$

FIXTURE	BASIS OF DESIGN OR EQUAL*				FIXTURE	LUMINAIRE	
TYPE	MANUFACTURER	MODEL	LAMP	WATTS	VOLTAGE	LUMENS	DESCRIPTION
31	EATON	ASPEN	LED	15.7 W	UNV	235 lm	OPEN APERTURE BOLLARD
F1	LIGMAN LIGHTING USA	UKI-60785	LED	33 W	UNV	3320 lm	IN-GROUND LED FLAG POLE FLOOD LIGHT. IP67 WET LOCATION AND IK10 IMPACT RESISTANT LISTEI 3500K. 80 CRI.
21	EATON	HVSL2 LD4 LED	LED	33.5 W	UNV	4587 lm	2"(W) X 4'(L). PENDANT MOUNTED LED STRIP LIGHT. OPAL POLYCARBONATE LENS. 3500K.
2	EATON	METALUX SNLED REFLECTOR	LED	30.6 W	UNV	4214 lm	4'(L) LED FIXTURE WITH REFLECTOR. 3500 KELVIN. 80 CRI.
23	EATON	METALUX SNLED LENSED	LED	18 W	UNV	2289 lm	2' (L) PENDANT MOUNTED LED STRIP LIGHT. SEMI-FROST LENS NARROW. 3500K. 80 CRI. 0-10V DIMM DRIVER.
P4	ARKTURA	SOUNDBAR DUO	LED	120 W	UNV	12800 lm	4"(W) X 6"(D) X 5'(L) PENDANT MOUNTED LED STRIP LIGHT WITH UP AND DOWN LIGHT. 3500K. 95+ CF
R1	EATON	22ALN	LED	20.2 W	UNV	2522 lm	2'(W) X 2'(L). RECESSED LED. SMOOTH FROSTED ACRYLIC CURVED LENS. 3500K. 0-10V DIMMING DRIVER.
2	GOTHAM	EVO 8 DOWNLIGHT	LED	31.6 W	UNV	2004 lm	8" LED ROUND DOWNLIGHT. 3500K. CLEAR APERTURE. MEDIUM DISTRIBUTION.
83	GOTHAM	EVO 8 NON-CONDUCTIVE SHOWER LIGHT	LED	31.6 W	UNV	2004 lm	IP65 RATED, WET-LISTED LED ROUND DOWNLIGHT. NON-CONDUCTIVE FRONT DROP. 3500K. 0-10V DRIVER DIMS TO 10%.
4	AXIS	SCULPT	LED	34 W	UNV	1200 lm	4'(L) RECESSED LIGHTING FIXTURE WITH FLUSH LENS. 3500K. 80 CRI. 0-10V DRIVER DIMS TO 1%.
5	AXIS	BEAM 2 LED	LED	13.8 W	UNV	1525 lm	2'(L) DIRECT RECESSED SLOT. 3500K. 80 CRI. 0-10V DRIVER DIMS TO 1%.
R6	PINNACLE	EDGE EV1	LED	45 W	UNV	3570 lm	1.5"(W) X 3 1/2"(D). DAMP LOCATION LISTED LED FIXTURE WITH EXTRUDED ALUMINUM TRIM WITH COROLLED STEEL BACK BOX, SATINE LENS, 80 CRI, 3500K COLOR TEMPERATURE. 0-10V DIMMING TO 1
R7	CONTECH	CTR324	LED	31.6 W	UNV	2004 lm	3" FULLY ADJUSTABLE WALLWASH LED. 3500K. WIDE SPREAD LENS. CLEAR SPECULAR REFLECTOR BRUSHED NICKEL TRIM.
88	KENALL	CSEFL22	LED	46 W	UNV	5461 lm	2'(W) X 2'(L) RECESSED LED. IP65 WET LOCATION LISTED. DIFFUSED ACRYLIC LENS. 3500K. 82+ CRI. 0-10V DIMMING DRIVER TO 1%.
51	EATON	HVSL4 LD4 LED	LED	33.5 W	UNV	3484 lm	SURFACE MOUNTED VANDAL RESISTANT LINEAR LED. 3500K. OPAL POLYCARBONATE LENS. SINGLI CIRCUIT, NON-DIMMING DRIVER.
L1	WE-EF	661-5460 VFL530-SE	LED	81 W	UNV	9323 lm	POLE MOUNTED FIXTURE 16' MOUNTING HEIGHT. TYPE 4 DISTRIBUTION.
P1	CAROLINA HIGH MAST	ULTRASPOT R800	LED	17052 W	480V	1789074 lm	MOUNTING HEIGHT 100'. 21 LUMINAIRES PER POLE. WATTAGE AND LUMENS LISTED ARE PER POLE.
P2	CAROLINA HIGH MAST	ULTRASPOT R800	LED	14616 W	480V	1533492 lm	MOUNTING HEIGHT 100'. 18 LUMINAIRES PER POLE. WATTAGE AND LUMENS LISTED ARE PER POLE.
P3	CAROLINA HIGH MAST	ULTRASPOT R800	LED	11368 W	480V	1192716 lm	MOUNTING HEIGHT 90'. 14 LUMINAIRES PER POLE. WATTAGE AND LUMENS LISTED ARE PER POLE.
P4	CAROLINA HIGH MAST	ULTRASPOT R800	LED	10556 W	480V	1107522 lm	MOUNTING HEIGHT 90'. 13 LUMINAIRES PER POLE. WATTAGE AND LUMENS LISTED ARE PER POLE.
/1	EATON	SHAPER 605-WP	LED	21.6 W	UNV	1681 lm	25"(W) BATHROOM VANITY. DAMP LOCATION LISTED. 3500K. 83+ CRI. 0-10 VOLT DIMMING.
V1	EATON	TR15 LED	LED	38.1 W	UNV	3300 lm	HARMONY TERRAPIN VANDAL RESISTANT LED
V2	EATON	RIO 1235-RD	LED	5 W	UNV	16 lm	15" DIAMETER STEP LIGHT. ROUND. POLYCARBONATE EYELID STYLE WITH TAMPER RESISTANT SCREWS. 3500K.
2	COOPER	LPX	LED	1 W	UNV	0 lm	SURFACE MTD, A/C POWERED, POLYCARBONATE LED EXIT SIGN WITH RED LETTERS, SINGLE FACE FIXTURE SHALL BE FURNISHED WITH DIRECTIONAL CHEVRONS PER PLANS

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C				
HASE(3/C)	NEUTRAL	EQUIPMENT GROUND	SIZE	
250		1	2-1/2"	
230	250	I	3"	
250		1/0	2"	
330	350	1/0	3	
FOO		1/0	3"	
500	500	1/0	3-1/2"	
200		1/0	2-1/2"	
300	300	170	3"	
400		2/0	3"	
400	400	2/0		
		3/0	3-1/2"	
000	600	3/0	4"	
600		4/0	3-1/2"	
000	600	4/0	4"	
000		250	3-1/2"	
600	600	250	4"	
600		250	3-1/2"	
600	600	300	4"	
E00		400	0.4/0"	
500	500	400	3-1/2	
600		500	3-1/2"	
000	600	500	4"	
600		700	4"	
000	600	700	5"	

IDENTIFICATION	LOCATION
ATS	ELEC 1.L11.05

DESIGNATOR	
AC	ACCESS CONTROL - PROVIE (MIN. 3/4"), WIRING, AND MO DRAWINGS AND COORDINA
OC	PROVIDE ELECTRICAL CON APPURTENANCES. PROVIDE BETWEEN DOOR CONTROLL

		$\wedge$	PL			RICAL SCHEDULE	
MARK	VOLTAG		LOAD	PANEL	CIRCUIT	DISCONNECTING MEANS / RECEPTACLE TYPE	NOTES
EWH1	208 V	(3)	10000 VA	0HLR	6,8,10		
GWH1	120 V	1	600 VA	OLLM	33		
GWH2	120 V	1	600 VA	OLLM	34		
RCP1	120 V	1	528 VA	OLLM	35		
RCP1	120 V	1	528 VA	0HLR	11		
SE1	480 V	3	3991 VA	0LHM	49,51,53		
SE2	480 V	3	3991 VA	0LHM	55,57,59		
TMV1	120 V	1	600 VA	OLLM	36		
WS1	120 V	1	660 VA	OLLM	10		

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE							
MARK	VOLTAGE	PHASE	LOAD	PANEL	CIRCUIT	DISCONNECTING MEANS / CONNECTION TYPE	NOTES
ACCU1	480 V	3	159626 VA	0LHM	1,3,5	DISCONNECT SWITCH PROVIDED BY DIVISION 23	
AHU1B	120 V	1	1440 VA	OLLM	52		AHU1 BURNER CONNECTION
AHU1E	480 V	3	17542 VA	OLHM	61,63,65	VFD PROVIDED BY DIVISION 23	AHU1 EXHAUST FAN
AHU1H	480 V	3	1497 VA	0LHM	64,66,68	VFD PROVIDED BY DIVISION 23	AHU1 HEAT WHEEL MOTOR
AHU1L	120 V	1	1800 VA	OLLM	11		AHU1 LIGHT CONNECTION
AHU1R	480 V	3	19704 VA	OLHM	67,69,71	VFD PROVIDED BY DIVISION 23	
AHU1S	480 V	3	48885 VA		2,4,6		
AI IO2	200 V	5	19038 VA	ULLIM	1,3,5	VED FROVIDED BY DIVISION 25	DISCONNECT SWITCH
COB1	208 V	1	125 VA	OLLM	2,4		
COB2	208 V	1	125 VA	OLLM	6,8		
COB3	208 V	1	125 VA	OLLM	47,49		
EF1	208 V	1	1581 VA	OLLM	48,50	DISCONNECT SWITCH PROVIDED BY DIVISION 23	
EF2	208 V	1	2746 VA	OLLM	7,9	DISCONNECT SWITCH PROVIDED BY DIVISION 23	
EF3	208 V	1	2746 VA	1RLF	43,45	DISCONNECT SWITCH PROVIDED BY DIVISION 23	
EF4 EE5	208 V	1	27/6 VA		51,55 40.42	DISCONNECT SWITCH PROVIDED BY DIVISION 23	
EF6	208 V	1	2746 VA		13 15	DISCONNECT SWITCH PROVIDED BY DIVISION 23	
ELEV	480 V	3	25000 VA	E0LHD	7.9.11		
FC01	208 V	1	894 VA	OLLM	17,19		
FC02	208 V	1	894 VA	OLLM	43,45	VFD PROVIDED BY DIVISION 23	
FC03	208 V	1	83 VA	OLLM	44,46	VFD PROVIDED BY DIVISION 23	
FC04	208 V	1	208 VA	OLLM	12,14	VFD PROVIDED BY DIVISION 23	
FC05	208 V	1	208 VA	OLLM	21,23		
FC06	208 V	1	208 VA	OLLM	21,23		
FC07	208 V	1	208 VA	OLLM	21,23		
FC08	208 V	1	208 VA	OLLM	21,23		
FC09	208 V	1	146 VA	OLLM	16,18		
FC10	208 V	1	790 VA	OLLM	16,18		
	208 V	1	208 VA		25,27		
FC12 FC13	200 V	1	200 VA		25,27		
FC14	208 V	1	166 VA		20,27		
FC15	208 V	1	166 VA	OLLM	20,22		
FC16	208 V	1	166 VA	OLLM	20,22		
FC17	208 V	1	166 VA	OLLM	29,31		
FC18	208 V	1	166 VA	OLLM	29,31		
FC19	208 V	1	166 VA	OLLM	29,31		
FC20	208 V	1	208 VA	OLLM	24,26		
FC21	208 V	1	208 VA	OLLM	24,26		
FC22	208 V	1	229 VA	1RLR	10,12		
HP1	208 V	1	3536 VA	1RLR	5,7		
HP2	480 V	3	38244 VA		7,9,11	DISCONNECT SWITCH PROVIDED BY DIVISION 23	
НРЗ	400 V	<u>3</u>	38244 VA		18 20 22	DISCONNECT SWITCH PROVIDED BY DIVISION 23	
MAU1	208 V	3	6305 VA	1HLR	32 34 36	VED PROVIDED BY DIVISION 23	
MAU2	208 V	3	2810 VA	OLLM	28.30.32	VFD PROVIDED BY DIVISION 23	
TB1	277 V	1	2500 VA	OLHM	19		
TB2	277 V	1	4000 VA	OLHM	13		
TB2	277 V	1	4000 VA	0LHM	21		
TB2	277 V	1	4000 VA	0LHM	24		
TB2	277 V	1	4000 VA	OLHM	26		
TB2	277 V	1	4000 VA	0LHM	30		
	2// V	1	4000 VA	ULHM	21		
	2// V	1	0000 VA		15		
	277 \/	1	8000 VA		14		
TB3	277 V	1	8000 VA		23		
TB3	277 V	1	8000 VA	0LHM	31		
TB3	277 V	1	8000 VA	0LHM	32		
TB3	277 V	1	8000 VA	0LHM	25		
TB3	277 V	1	8000 VA	0LHM	33		
ТВЗ	277 V	1	8000 VA	0LHM	35		
TB3	277 V	1	8000 VA	0LHM	34		
TB4	277 V	1	13000 VA	0LHM	41		
TB4	277 V	1	13000 VA	OLHM	37		
TB4	277 V	1	13000 VA	0LHM	36		
	2// V	1	13000 VA		28		
	2// V 277 \/	1	22000 VA		29		
	277 \/	<u>.</u> 1	26000 VA		28		
UH1	480 V	3	5000 VA		52.54.56	VED PROVIDED BY DIVISION 23	
UH1	480 V	3	5000 VA	0LHM	58,60,62	VFD PROVIDED BY DIVISION 23	
	1		1	i		1	1

 ELEC AUTOMATIC TRANSFER SWITCH SCHEDULE						
	AUTOMATIC T	RANSFER SWITCH (ATS) SCH	IEDULE			
VOLTS	RATING	WITHSTAND RATING (KA)	# OF POLES	TRANSITION TYPE	LOAD SERVED	NOTES
480Y/277V	250 A	42	3	OPEN	OPTIONAL STANDBY	SOLID NEUTRAI
 480Y/277V	250 A	42	3	OPEN	OPTIONAL STANDBY	

ELEC DOOR HARDWARE CONNECTIONS DESCRIPTION OF WORK REQUIRED /IDE ELECTRICAL CONNECTION, ABOVE CEILING, TO LOW VOLTAGE TRANSFORMER SERVING CARD READERS/SENSOR REQUIRED BACKBOXES, CONDUIT OUNTING APPURTENANCES BETWEEN THE LOW VOLTAGE TRANSFORMER AND ASSOCIATED CARD READER/SENSORS. REFER TO ARCHITECTURAL ATE WITH DOOR HARDWARE VENDOR FOR CARD READERS/SENSOR LOCATION REQUIREMENTS PRIOR TO START OF WORK. CIRCUIT AS INDICATED. NECTION TO ELECTRICALLY OPERATED COILING DOOR WITH ALL REQUIRED BACKBOXES, CONDUIT (MIN. 3/4"), WIRING, AND MOUNTING E LOCAL DISCONNECT SWITCH. MOUNT MANUAL CONTROLLER ADJACENT TO DOOR UNLESS NOTED OTHERWISE. PROVIDE ALL CONTROL WIRING LLER AND MANUAL CONTROLLER. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH DOOR HARDWARE VENDOR FOR OPERATING CONTROL S PRIOR TO START OF WORK. CIRCUIT AS INDICATED.

## 



PROJECT

Marshall Baseball Electrical



CLIENT Marshall University 1 John Marshall Drive Huntington, WV 25755 HTTP://MARSHALL.EDU

ARCHITECT AECOM 2380 McGee St., #200 Kansas City, MO 64108 HTTP://AECOM.COM

CIVIL AECOM 150 Clay St., Suite 410 Morgantown, WV 26501 HTTP://AECOM.COM

STRUCTURAL AECOM 125 Broad Street, 15th Floor New York, NY 10004 HTTP://AECOM.COM

**MEP/FIRE PROTECTION** AECOM

277 West Nationwide Blvd. Columbus, OH 43215 HTTP://AECOM.COM

**AUDIO/VISUAL** Henderson Engineers, Inc. 8345 Lenexa Drive, #300 Lenexa, KS 66214

HTTP://HENDERSONENGINEERS.COM FIELD CONSULTANT

D A Hogan & Associates 119 1st Ave S., #110 Seattle, WA 98104 HTTP://DAHOGAN.COM

FOODSERVICE S2O Consultants, Inc 530 N. Wood St. Unit C Chicago, IL 60622 HTTP://S2OCONSULTANTS.NET

REGISTRATION

CONSTRUCTION **DOCUMENTS** -**BID SET** 

11/15/19

**ISSUE/REVISION** 

2 12/12/2019 ADDENDUM 2 I/R DATE DESCR DESCRIPTION

PROJECT NUMBER SHEET TITLE

60590790

ELECTRICAL SCHEDULES

SHEET NUMBER

E902

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### ADDENDUM F&T - 02

Date of Issuance: December 6, 2019

Re: MARSHALL UNIVERSITY BASEBALL STADIUM Field & Turf RFP Requisition No. R2001202 Marshall University, Huntington WV.

AECOM Project Number: 60590790

Issued By: AECOM Technical Services, Inc.

Issued To: All bidders/plan holders of record

Acknowledge receipt of this addendum on the Form of Proposal, Section 00 02 00, Part 1, Item 4. Failure to acknowledge receipt of this addendum may render your Proposal non-responsive, and disqualify the Proposer.

The requirements of the original Proposal documents remain in effect except as modified by this Addendum. Changes made by addenda take precedence over information published at an earlier date.

Bidders are advised to call attention to all sub-bidders and suppliers of all information and changes that might affect their work.

#### GENERAL CLARIFICATIONS:

- 1. This Addendum includes a re-issued Form of Proposal, Section 00 02 00. This clarification emphasizes that Proposing Firms are to use the re-issued Form, which clearly identifies itself as having been revised in both Addendum F&T-01 and F&T-02 in the header.
- 2. Some of the technical questions received by the Project Team suggest that there may be individuals reviewing and/or pricing the work without the benefit of the complete Project Documents. Each pre-qualified firm received two files, "Marshall University Baseball Stadium Field & Turf RFP Drawings 11-11-19.pdf" (6.8MB) containing the complete 13-sheet drawing package, and "Marshall University Baseball Stadium Field & Turf RFP Project Manual 11-12-19.pdf" (1.3MB), containing the complete 93-page Project Manual & Specification. Item immediately following includes a link to the equally important General Conditions, Special Conditions, and all work of other Trades.

Principals of the Proposing Firms are encouraged to verify that their Proposal is based on the comprehensive documentation.

3. The following is revised from Addendum FT-01, General Clarification Item 1:

Section 01 11 00 Paragraph 1.1.B references Divisions 0 and 1 of the Stadium Contract, and several drawings of the Stadium Contract are referenced in the Field & Turf RFP drawings. The

following is the public link to the full bid documents as referenced;

http://www.cbblueprint.com/MU%20Baseball%20Stadium.htm

Proposing Firms shall register as Plan Holders.

By Submitting a Proposal, the Proposing Firm certifies that they (the Proposing Firm, collectively or individually) have accessed, reviewed, and familiarized themselves with the Stadium Construction Bid Documents sufficiently to understand the requirements and implications of working for the Stadium GC directly.

4. Due to the numerous questions regarding the extent of fencing work involved, we have attached a Not-to-Scale version sheet PF101 Layout Plan with the limit of fencing and gates highlighted.

#### INTERROGATIVES:

- 1. Q. Is the only fencing located in between the field and bullpens (4') and the gates in left field and center field?
  - A. Yes.
- 2. Q. The only place I see requiring a concrete curb is where fencing is required (between bullpens and field and where the gates are in the outfield wall in left field and center field.)
  - A. Correct. The only concrete curb included in the RFP is that associated with the fencing.
- 3. Q. Is the outfield wall being provided by the GC and the turf field contractor is just responsible for attaching the nailer?
  - A. Correct.
- 4. Q. Is a pressure treated 2"x4" nailer acceptable in lieu of the plastic edging for turf attachment?
  - A. Yes. Refer to Section 33 46 23 Paragraph 2.4.C.
- 5. Q. Please clarify the difference between the irrigation line and the washwater line. They appear to be the same line on the irrigation drawing.
  - A. The washwater is supplied by an "existing" irrigation source. For the purposes of the physical work of this RFP, "irrigation" and "washwater" are interchangeable, except when referring to the Field & Turf Washwater Point-of-Connection, which is the Stadium Contract's irrigation system.
- 6. Q. Are the perimeter drainage collector line and the irrigation/washwater mainline to be installed in the same trench then backfilled? They appear to be in the same location.
  - A. No. Although they may be shown in close proximity, they are not shown in the same trench. Note that Detail A4 Sheet PF204 indicates very specific requirements for bedding & backfill.
- 7. Q. Is the 2'x2' duct bank with 4" conduits to be provided and installed by the GC or by the turf field contractor? If by the turf contractor, does their 2'x2' duct bank duct and conduits terminate at the perimeter of the field (fence line/wall) where others will pick up remaining? Is there a detail available for this?

- A. The duct bank in question will be installed by the Stadium GC before the Field & Turf Contract Site Notice to Proceed is issued. The conduits pass through the site uninterrupted by any hand hole, vault, or surface feature at a depth that will not interfere with the underground work of the Field & Turf Contract.
- 8. Q. As per detail C1, can we substitute a 90 for the angled connection on the side inlet connection as it will be extremely difficult to achieve desired compaction around that angled connection?
  - A. Assuming this is referencing C1/PF202, please propose as per the drawings & details. This detail shows 2 of several connection methods that may be acceptable. Alternatives to the methods shown can be reviewed post-Award.
- 9. Q. Would it be an option to substitute a perforated collector (6"/8") perimeter pipe in a stone trench in lieu of the solid collector pipe in a dirt backfilled trench?
  - A. Please propose as per the drawings & details. Alternatives to the methods shown can be reviewed post-Award.
- 10. Q. Please clarify what drawing detail A4 from drawing page PF204 is applicable for.
  - A. This detail covers irrigation sleeving conditions extensively, although there are admittedly few if any situations warranting sleeving. The detail does also illustrate trenching requirements for washwater/irrigation piping.
- 11. Q. Are we to include anything for netting, windscreen, fence padding, batter's eyes or foul poles? These items are minimally referenced but full details and specs are missing on all.
  - A. Netting, windscreens, and padding are not supplied by the Field & Turf Proposal. References, including those associated with 4' bullpen fencing, should also indicate that this equipment is provided per the A-Series drawings (Stadium Contract).
- 12. Q. Can we get a more definitive breakdown on what fencing and curb needs to be provided by the field builder?
  - A. Provide only fencing and gates called out on Sheet PF101.
- 13. Q. The layout legend on PF100 doesn't give a clear picture of what fence/curb details are needed?
  - A. PF100 is a color illustration, although it does describe the fencing work as well. PF101 very clearly indicates the limit of chain link fencing and gates, and the associated details can be found on sheets PF201, PF203, and PF205. A1/PF205 indicates that there is a curb associated with all chain link fence. B4/PF203 indicates that some fencing, specifically that adjacent to the bullpen mounds, includes additional curb height with specialized detailing to ensure that the fence fabric and curb face are co-planar. This detail also illustrates the continuing curb.
- 14. Q. Are we only providing curb and fence at the bullpens?
  - A. Yes, plus gates in the outfield fence as shown.
- 15. Q. Are we to provide the outfield fence/curb?

Marshall University Baseball Stadium Field & Turf RFP Addendum 100% Construction Documents AECOM Project No. 60590790 Addendum F&T-02 Page 3

- A. No, just the gates as shown.
- 16. Q. Can the trenches be scaled from 12" wide to 8" wide?
  - A. No.
- 17. Q. Are there any specifications for stone and pipe?
  - A. Yes.
- 18. Q. Are we responsible for all fencing or just everything not incorporated in the concrete wall?
  - A. PF101 indicates the limit of chain link fencing and gates as being the full length of both bullpens, and all gates onto the field. The associated details can be found on sheets PF201, PF203, and PF205. A1/PF205 indicates that there is a curb associated with all chain link fence. B4/PF203 indicates that some fencing, specifically that adjacent to the bullpen mounds, includes additional curb height with specialized detailing to ensure that the fence fabric and curb face are co-planar. This detail also illustrates the continuing curb.
- 19. Q. Can we switch the collector line from solid to perforated?
  - A. Please propose as per the drawings & details. Alternatives to the methods shown can be reviewed post-Award.
- 20. Q. Switch drainage insert-a-tees to regular tees?
  - A. Please propose as per the drawings & details. Alternatives to the methods shown can be reviewed post-Award.
- 21. Q. Can you please confirm who is responsible for the wall and the fencing inside that wall?
  - A. This inquiry is not clear enough to respond to directly, but we are confident that several of the previous items cover this area.
- 22. Q. Can we get clarification on who is responsible for the spoils from the drainage ditches for the project?
  - A. Yes the Firm executing the Field & Turf Contract will be responsible for the disposition of materials in excess of that required to execute the work as described. Options might include off-site disposal, incorporation into the subgrade, or on-site disposal coordinated with the Stadium GC.
- 23. Q. Confirm that the stadium contractor is responsible for excavation to subgrade.
  - A. The Stadium GC will provide a rough subgrade +0.05'/-0.05' of the designed subgrade. See Sheet PF002 notes, Section 01 11 00 Summary of Work, and 00 02 00 Form of the Proposal (Unit Prices 1 & 2) for a comprehensive description.

#### SPECIFICATIONS:

General: Deleted portions of specifications are struck-through and underlined. Revised portions

Marshall University Baseball Stadium Field & Turf RFP Addendum 100% Construction Documents AECOM Project No. 60590790 Addendum F&T-02 Page 4

#### of specifications are bolded and underlined.

- 1. Q. The Bid Form (Section 00 02 00) asks for a UBI#. I am not familiar with what this is. Can you clarify what that is, what the acronym stands for?
  - A. A Universal Business Identifier # is not a requirement for this Process. This has been stricken from the re-issued 00 02 00 Form.

#### DRAWINGS:

#### General: Revisions to drawings are clouded and have a delta mark next to them.

- 1. Reserved
  - a. Reserved.

#### ATTACHMENTS:

Section 00 02 00 Form of the Proposal.pdf PF 101 Layout Plan 12-4-19 NTS FT-02.pdf

#### END OF ADDENDUM

#### Section 00 02 00

#### Form of Proposal – Part 1 Addendum F&T-01 Addendum F&T-02

Address all Proposal Documents to: Stephanie Smith, MS <u>Angela White Negley</u> CPO, Director of Purchasing, Marshall University One John Marshall Drive Huntington, WV 25755-4100

Proposal Documents must be received via e-mail at the following; Angela White Negley, Marshall University <u>negely4@marshall.edu</u> Brian Pounds, AECOM <u>Brian.Pounds@aecom.com</u> Eric Gold, D.A. Hogan & Associates <u>ericg@dahogan.com</u>

For: Marshall University Baseball Stadium Field & Turf Request for Proposals

Proposing Company Name: \_\_\_\_

In response to your Invitation to Propose for the above referenced work, the undersigned offers to furnish all of the following required to perform the work in accordance with the Contract and any addenda thereto for the firm and fixed price set forth below: labor, materials, tools, supplies, equipment, storage, transportation, incidental field engineering, supervision, services, goods and other items.

The undersigned certifies that: it has examined and is fully familiar with all provisions of the Contract and any addenda thereto; it has carefully checked all of the words and figures which comprise this Proposal; and it has by careful examination of the Contract, any addenda thereto, the site and all other pertinent conditions and information, satisfied itself as to the nature, location, difficulty, character, quality, and quantity of the work, required by the Contract and as to the conditions and other matters that may be encountered at or in the vicinity of the site or that may affect performance of the work or the cost or difficulty thereof.

In submitting this Proposal, the undersigned agrees:

- 1. To hold its bid open for ninety (90) consecutive calendar days from the date designated for receipt of bids;
- 2. If awarded the Contract, to duly execute the Contract and deliver to Marshall University and it's Stadium General Contract Holder the Field & Turf Contract, together with all required surety bonds and certificates of insurance and all other post bid information required by the documents, within ten (10) days from the date of Notice of Intent to Award;

- 3. To perform the work in accordance with the Contract which consists of the AGREEMENT BETWEEN Marshall University and its Stadium General Contractor AND , GENERAL, SUPPLEMENTAL AND ANY OTHER CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, SPECIFICATIONS, DRAWINGS, and all addenda thereto; other documents listed in the Agreement and Modifications issued after execution of the Contract; and,
- 4. To commence work under the Contract upon receipt of a written Notice to Proceed and complete the work in accordance with Sections 00 08 00 Supplemental Conditions and 01 11 00 Summary of Work.

The undersigned acknowledges receipt of the Contract Documents, including Drawings and Project Manuals, for the Marshall University Baseball Field & Turf RFP, and referenced documents of the Marshall University Baseball Stadium Construction Documents.

The undersigned acknowledges receipt, understanding and full consideration of Addenda Nos. \_\_\_\_\_\_and have included their provisions in my bid.

As full compensation for satisfactory performance of all obligations under the Contract, the undersigned will construct this project for the following lump sum base bid and/or combination of Awarded Alternate Bid Items as defined in the accompanying specifications and drawings and the General Conditions of the Marshall University Baseball Stadium Construction Documents;

#### INDICATE DEDUCTIVE or NEGATIVE VALUES IN (BRACKETS).

**BASE BID ITEM #1 (Field Base):** Construction of the Field Base including all related utilities infrastructure (washwater, drainage, and incidental coordination with others), embedments, fencing, equipment, and accessories as shown and described;

(Words)\_\_\_\_\_Dollars

(Numbers) \$\_\_\_\_\_

**BASE BID ITEM #2 (Turf Surfacing):** Manufacture, Supply, Installation, Service, and Warranty of the Specified Synthetic Turf system, as shown and described;

(Words)\_\_\_\_\_Dollars

(Numbers) \$\_\_\_\_\_

**ALTERNATE BID #1 (Vendors Choice Turf System):** Substitute the Proposers Preferred Synthetic Turf System, including Manufacture, Supply, Installation, Service, and Warranty, as described on the accompanying Section 00 02 05 Turf Technical Product Data Form(s) for the Specified product(s);

(Words)\_\_\_\_\_

Dollars

Marshall University – Baseball Stadium Field & Turf RFP – November 8, 2019 AECOM Project No. 60590790 Form of Proposal 00 02 00 - 2

(Numbers) \$\_\_\_\_\_

<b>UNIT PRICE #1 (Soil Export):</b> Grading of that required to establish the Designer including loading, export trucking, and c as measured in place);	and Excavation of soil materials found to be in excess d Subgrade Condition as shown and described, ffsite disposal, PER 10 BANK CUBIC YARDS (10BCY,
(Words)	Dollars/10bcy
(Numbers) \$	/10bcy
<b>UNIT PRICE #2 (Soil Import):</b> Import of establish the Designed Subgrade Condi- trucking, unloading, and rough grading a (10BCY, in place, at the compaction rate	of approved Structural Fill soil in the quantity required to tion as shown and described including supply, import and compaction, PER 10 BANK CUBIC YARDS e specified);
(Words)	Dollars/10bcy
(Numbers) \$	/10bcy
Exclusions Statement (initial one)           No Specific Exclusions. The unconditions of the Agreement and           The Proposal is subject to Specific Agreement of Specific Agreement and	dersigned has read and understands the terms and l identifies no specific exclusions or exceptions to same. fic Exclusions as noted on a separately attached, ific Exclusions to the Agreement.
Bidder's West Virginia Contractor's Lice	nse No
License Expiration Date:	
Legal Name of Bidder:	
UBI#:	
Business Address:	
Phone Number:	
Signature of Corporation.	
(Corporate Name)	_
Marshall University – Baseball Stadium Field & Turf RFP – November 8, 2019 AECOM Project No. 60590790	<b>Form of Proposal</b> 00 02 00 - 3

(State of Incorporation)	
Date Signed:	Ву:
	Title:
Signature of Partnership or Joint Venture.	
(Name of Partnership or Joint Venture)	
Date Signed:	Ву:

#### **ATTACHMENT NO. 1**

#### NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

State of West Virginia

) ss

)

County of

\_\_\_\_\_, being first duly sworn, deposes and says that he or she I, \_\_\_\_\_ \_ of \_\_\_\_\_ the party making is the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company association, organization, or corporation, that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, or to restrain competition.

Bidder		-	
Ву		-	
Title		_	
Address		-	
Subscribed and Sworn to be	fore me this day	y of	_, 20
	Printed Name		
	Notary Public in and	d for the State of	
all University - Reachall Stadium	Residing at		

Marshall University – Baseball Stadium Field & Turf RFP – November 8, 2019 AECOM Project No. 60590790 Form of Proposal 00 02 00 - 5





PROJECT MARSHALL UNIVERSIT BASEBALL STADIUM FIELD & TURF RFP



CLIENT Marshall University 1 John Marshall Drive Huntington, WV 25755 HTTP://MARSHALL.ED

ARCHITECT AECOM 2300 McGee 5t, #200 Kenses City, MO 6410 HTTP://AECOM.COM

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STRUCTURAL AECOM 125 Broad Street, 13th Floor Naw York, NY 10004 HTTP:/AECOM.COM

MEP/FIRE PROTECTION

277 West Nationwide B Columbus, OH 43215 HTTP://AECOM.COM

AUDIONISUAL Handerson Engineers, Inc. 8345 Lonexa Drive, #300 Lonexa, K5 66214 HTTP//HENDEPErformation

FIELD CONSULTANT D A Hogan & Associa 119 fst Ave S. #110 Seattle, WA 98104 HTTP://DAHO/SAN C

FOODSERVICE S20 Consultants. Inc 530 N. Wood St. Unit C Chicago, IL 60622 HTTP://S20CONSULT.

REGISTRATION



## FIELD & TURF RFP PRICING DOCUMENTS 11/08/19

KEY PLAN



#### ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60590790 SHEET TITLE

FIELD LAYOUT PLAN

SHEET NUMBER

PF101