MARYSVILLE HIGH SCHOOL AG SHOP ADDITION 1908.03

CONTRACT ADDENDUM NO. 2 DECEMEBER 12, 2019

To All Bidders:

The following are changes in the previously issued plans and specifications and supersede conflicting information so included.

When a change is made affecting a part of a drawing or specification, the balance of that drawing or specification shall remain unchanged.

Bidders must acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

GENERAL:

- Article 2-01: The Start Date for the Project will be pending on City of Marysville Planning Commission approval of the Project on January 9, 2020. It is anticipated Building Permits will be available immediately following Commission approval.
- Article 2-02: The district has indicated they would like to have a ground breaking ceremony at a time and location TBD, but currently anticipate it being mid day for two hours on January 15. The district has also indicated they would like to have a ribbon cutting ceremony during summer, at a time TBD. The general contractor shall anticipate accommodating these social engagements by allowing staff and media on the site during these times. The contractor shall provide a safe and clean jobsite throughout construction, especially during these times.

SPECIFICATIONS:

Article 2-03: Specification Section 012900 PAYMENT PROCEDURES

2-03a: ADD: A construction schedule shall be provided with each Payment Application. Failure to provide an updated construction schedule may result in delay of processing the payment application.

Article 2-04: Specification Section 072726 FLUIFD APPLIED MEMBRANE AIR BARRIERS

2-04a: Paragraph 2.3A.1: Add Carlisle Coating & Waterproofing; Barrithane VP

2-04b: Paragraph 2.3A.1: Add Carlisle Coating & Waterproofing; Barritech VP

Article 2-05: Specification Section 098436 SOUND ABSORBING CEILING UNITS

2-05a: Paragraph 2.3A.1: Add G&S Acoustics; Serenade Cloud 1" thick Sq. Hardened Edges Anchorage Fabric Suspended with TCI-HS

Article 2-06: Specification Section 101423 PANEL SIGNAGE

2-06a: ADD: Specification Section.

Article 2-07: Specification Section 131230 GREENHOUSE SYSTEMS

2-07a: American Cool Air shall be an approved equal manufacturer to Acme products. United Greenhouse Systems shall be an approved equal internal retractable shade system. Micro Grow Procom shall be an approved equal environmental control system.

2-07b: Paragraph 1.3, D. Wind Exposure is category B. Three second gust speed is 115 mph.

2-07c: Paragraph 2.4, A., 2. One (1) Acme DCA36G one speed Exhaust Fan - ½ hp, 115 volt, single phase.

2-07d: Paragraph 2.4, A., 4. The inlet air entrance for first stage ventilation via one (1) **WAAC333MAT** motorized shutter in the upper truss.

2-07e: Paragraph 2.4, B., 1. Conley Pad Vent System: 3 foot by 30 foot.

2-07f: Remove Paragraph 2.4, C.

2-07g: Paragraph 2.4, G. change size of shade system to be 30 feet by 40 feet. Remove reference to LS XLS15 Revolux.

2-07h: Paragraph 2.5, A., 1. Two (2) Modine Model PTP150 High Efficiency Stainless Steel Unit Heaters.

2-07i: Paragraph 2.8, D., 1. & D., 1. benches to have expanded metal tops.

2-07j: Paragraph 2.9, G., Include materials for 4 runs of hanging baskets.

Article 2-08 133419 METAL BUILDING SYSTEMS

2-08a: Paragraph 2.3B: The Owner provided crane system will be supported from the PEMB frame.

2-08b Paragraph 2.7D.2: Facing of insulation over AG Shop 101 to be White. Facing over the remainder of the roof to be Black.

DRAWINGS:

Article 2-09: ALLIANCE STEEL INC. PRELIMINARY DRAWINGS (10 Pages):

2-09a: These drawings are for informational purposes only. They do not constitute a complete design for construction.

Article 2-10: SHEET AS101

2-10a: Detail 1: Move the DOAS and note 17 to be against the building and notch the sidewalk for 5' clear around the DOAS. Partial plan, not to scale below.



Article 2-11: SHEET D101

2-11a: DEMOLITION PLAN NOTES: Change Note #2 to read: Shot-Put Equipment and Pad to remain; protect.

Article 2-12: SHEET A101 - Replace Sheet

2-12a: Provide an 8'-0" markerboard on the exterior east wall, north of column line 2.

2-12b: ARCHITECTURAL PLAN NOTES: Change Note #3 to read: S.S. Corner guard on Gyp. Partition outside corners, 5'-0" AFF, 102600-1

Article 2-13: SHEET A201 - Replace Sheet

2-13a: Detail 1, 2, 3 & 4: Add exterior masonry veneer control joints

Article 2-14: SHEET S101 – Replace Sheet

- 2-14a: Omit bridge crane foundations. Crane to be supported by PEMB framing.
- 2-14b: Add beam pocket note at north stair.
- 2-14c: Add section cut 23/S300 at central stair.

Article 2-15: SHEET S300 – Replace Sheet

- 2-15a: Revised Section 16 and 21.
- 2-15b: Add Section 23.
- Article 2-16: Sheet 301 Replace Sheet

2-16a: Add Section 7.

Article 2-17 SHEET M101 – Replace Sheet

2-17a: Added the existing location of the fire sprinkler line.

2-17b: Gas pipe load and sizing was added to plans, 1,524 MBH

- 2-17c: Fore sprinkler notes were added to plans.
- 2-17d: Added gas for future ranges.
- Article 2-18: SHEET M201 Replace Sheet
 - 2-18a: Correct the call out for the exhaust fan in the shop. It is EF-2.
 - 2-18b: Modified Ductwork in Mech 107, Equip 107b and Closet 106.
 - 2-18c: Add exhaust fan to Equip 107b.
- Article 2-19: SHEET E101 Replace Sheet
 - 2-19a: Added (2) floor boxes in Kitchen 206 and (5) floor boxes in Ag Lab 205.
 - 2-19b: Added 94) junction boxes for cord reel in the lower shop area.
 - 2-19c: Moved receptacles for sump pump closer to sump pump.
 - 2-19d: Add power for EF-6.

Article 2-20: SHEET E301 - Replace Sheet

2-20a: Added Cable tray locations to plan.

Article 2-21: SHEET E401 – Replace Sheet

2-21a: Updated panelboard schedules P1 and P2.

2-21b: INFORMATION TECHNOLOGY NOTES:

- 1. The existing Siemens fire alarm system in the school shall be extended into this new Ag Shop as indicated on the plans. Electrical contractor shall contact Dan Petersen at ECC 402-466-8274 for pricing to be included in this project. Coordinate all wiring and installation with ECC.
- 2. The existing Carehawk intercom with class bell system shall be extended into this new Ag Shop as indicated on the plans. Electrical contractor shall contact Dan Petersen at ECC 402-466-8274 for pricing to be included in this project. Coordinate all wiring and installation with ECC.
- 3. Clocks will be furnished by the owner, and installed by the electrical contractor. Coordinate all work and scheduling with Brad Dressman, District Director of Technology 785-562-5386 ext 4
- 4. The data and phone system wiring, rack, access points, data outlets, equipment, etc. in the school shall be extended into this new Ag Shop. Electrical contractor shall contact Twotrees Technology 800-364-5700, Michael Dunnel or Susie Smith for pricing to be included in this project. Coordinate all wiring and installation with Twotrees and their cable installation vendor.
- 5. Cameras and cabling back to the IT room are to be furnished and installed by the electrical contractor complete. Contact DH Pace, Dan Martin 816-480-2601 to purchase the cameras.
- 6. The existing access control system in the school shall be extended into this new Ag Shop as indicated on the plans. Electrical contractor shall contact Jasen Walker from CBS in Manhattan, KS 785-220-2995 for pricing to be included in this project. Coordinate all wiring and installation with CBS.

END OF ADDENDUM NO. 2

SECTION 101423 - PANEL SIGNAGE

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: Panel signs.
- B. Related Requirements: Section 01 5000 "Temporary Facilities and Controls" for temporary Project identification signs and for temporary informational and directional signs.

1.3 DEFINITIONS

A. Accessible: In accordance with the accessibility standard.

1.4 COORDINATION

- A. Furnish templates for placement of sign-anchorage devices embedded in permanent construction by other installers.
- B. Furnish templates for placement of electrical service embedded in permanent construction by other installers.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For panel signs.
 - 1. Include fabrication and installation details and attachments to other work.
 - 2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
 - 3. Show message list, typestyles, graphic elements, including raised characters and Braille, and layout for each sign at least quarter scale.
- C. Samples for Verification: For each type of sign assembly showing all components and with the required finishes, in manufacturer's standard size unless otherwise indicated and as follows:
 - 1. Panel Signs: Full-size Sample.
 - 2. Full-size Samples, if approved, will be returned to Contractor for use in Project.
- D. Product Schedule: For panel signs. Use same designations indicated on Drawings or specified.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Sample Warranty: For special warranty.

1.7 CLOSEOUT SUBMITTALS

A. Maintenance Data: For signs to include in maintenance manuals.

1.8 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Tools: One set of specialty tools for assembling signs and replacing variable sign components.

1.9 FIELD CONDITIONS

A. Field Measurements: Verify locations of anchorage devices embedded in permanent construction by other installers by field measurements before fabrication and indicate measurements on Shop Drawings.

1.10 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration of finishes beyond normal weathering.
 - b. Deterioration of embedded graphic image.
 - c. Separation or delamination of sheet materials and components.
 - 2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design".
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 PANEL SIGNS

- A. Panel Sign FE201: Sign with smooth, uniform surfaces; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. ACE Sign Systems, Inc..

- b. ASI Sign Systems, Inc.
- c. Best Sign Systems, Inc..
- d. Seton Identification Products.
- e. APCO Signs (Basis of Design)
- 2. Basis of Design Product: Subject to compliance with requirements, provide product indicated by APCO signs, Atlanta, GA.
 - a. Sign Series: Arcadia 1000
 - b. Type: Wall mounted, manufacturer's standard method for substrates indicated.
 - c. Size, legends, and features: As indicated on the Drawings, and as standard with the manufacturer.
 - d. Materials: Manufacturer's standard for the sign series, and as indicated on the Drawings.
- 3. Solid-Sheet Sign, Returns, and Back: Acrylic sheet with finish specified in "Surface Finish and Applied Graphics" Subparagraph and as follows:
 - a. Thickness: Manufacturer's standard for size of sign.
 - b. Surface-Applied, Raised Graphics: Applied polymer characters and Braille.
- 4. Engraved Plastic-Laminate Sign: Plastic-laminate face laminated to contrasting phenolic core to produce composite sheet.
 - a. Core Color: Manufacturer's standard dark color.
- 5. Sign-Panel Perimeter: Finish edges smooth.
 - a. Edge Condition at Vertical Edges and at Horizontal Edges: Square cut.
 - b. Corner Condition in Elevation: As indicated on Drawings.
- 6. Frame: Vertical retainers to hold changeable sign panel.
 - a. Material: Aluminum.
 - b. Material Thickness: Manufacturer's Standard thickness.
 - c. Frame Depth: As indicated on Drawings.
 - d. Profile: Beveled.
 - e. Corner Condition in Elevation: Square.
 - f. Finish and Color: As selected by Architect from manufacturer's full range.
- 7. Mounting
 - a. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signage, compatible with each material joined, and complying with the following:
 - b. Two-face Tape: Manufacturer's standard high-bond, foam-core tape, 0.045 inch thick, with adhesive on both sides.
- 8. Surface Finish and Applied Graphics:
 - a. Integral Aluminum Finish: Clear anodized.
 - b. Integral Stainless-Steel Finish: No. 4.
 - c. Integral Acrylic Sheet Color: As selected by Architect from full range of industry colors.
- 9. Text and Typeface: Accessible raised characters and Braille. Finish raised characters to contrast with background color, and finish Braille to match background color.
- 10. Flatness Tolerance: Sign shall remain flat or uniformly curved under installed conditions as indicated on Drawings and within a tolerance of plus or minus 1/16 inch measured diagonally from corner to corner.

2.3 PANEL-SIGN MATERIALS

A. Aluminum Sheet and Plate: ASTM B 209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

- B. Aluminum Extrusions: ASTM B 221, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
- C. Acrylic Sheet: ASTM D 4802, category as standard with manufacturer for each sign, Type UVF (UV filtering).
- D. Paints and Coatings for Sheet Materials: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for colors and exposure indicated.

2.4 ACCESSORIES

- A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signs, noncorrosive and compatible with each material joined, and complying with the following unless otherwise indicated:
 - 1. Use concealed fasteners and anchors.
 - 2. Sign Mounting Fasteners:
 - a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material or screwed into back of sign assembly unless otherwise indicated.
 - b. Projecting Studs: Threaded studs with sleeve spacer, welded or brazed to back of sign material or screwed into back of sign assembly, unless otherwise indicated.
 - c. Through Fasteners: Exposed metal fasteners matching sign finish, with type of head indicated, and installed in predrilled holes.

2.5 FABRICATION

- A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.
 - 1. Preassemble signs in the shop to greatest extent possible. Disassemble signs and assemblies only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view after final assembly.
 - 2. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
 - 3. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed connections of flux, and dress exposed and contact surfaces.
 - 4. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
 - 5. Internally brace signs for stability, to meet structural performance loading without oil-canning or other surface deformation, and for securing fasteners.
 - 6. Provide rabbets, lugs, and tabs necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.

2.6 GENERAL FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Directional Finishes: Run grain with long dimension of each piece and perpendicular to long dimension of finished trim or border surface unless otherwise indicated.

- D. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.
- 2.7 ALUMINUM FINISHES
 - A. Clear Anodic Finish: AAMA 611, Class II, 0.010 mm or thicker.
- 2.8 STAINLESS-STEEL FINISHES
 - A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
 - B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - 1. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
 - 2. Directional Satin Finish: No. 4.

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. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
 - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 - 2. Install signs so they do not protrude or obstruct according to the accessibility standard.
 - 3. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
 - 4. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.
- B. Accessible Signage: Install in locations on walls as indicated on Drawings and according to the accessibility standard.
- C. Mounting Methods:
 - 1. Two-Face Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position and push to engage tape adhesive.
- D. Signs Mounted on Glass: Provide opaque sheet matching sign material and finish onto opposite side of glass to conceal back of sign.

3.3 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 101423





PRELIMINARY ONLY Not For Construction FOR INFORMATION ONLY



ANCHOR BOLT PLAN NOTE: All Base Plates @ 100'-0" (U.N.)

| FRAME LINES: 1 2 3 4 5 6 7 | RIGID FRAME: BASIC COLUMN REACTIONS (K) |
|---|--|
| | Frame Column DeadCollateral- LiveSnowWind_Left1- -Wind_Left1- -Wind_Le |
| | Frame ColumnWind_Left2Wind_Right2Wind_Long1Wind_Long2Seismic_Left Seism Line Line Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz |
| | 1 A -8.0 -9.2 0.4 -3.0 -1.2 -11.4 -1.6 -8.9 -2.0 -1.5 2.0 1 D -0.3 -3.2 7.9 -9.1 1.7 -9.1 1.2 -11.3 -2.0 1.5 2.0 Frame Column - MIN SNOW ETHING SI L- |
| | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| | Frame ColumnDeadCollateralLiveSnowWind_Left1Winr Line Line Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz 2* A 11 37 20 53 58 150 45 115 -109 -200 1 |
| н_ | 2* D -1.1 3.7 -2.0 5.3 -5.8 15.0 -4.5 11.5 -1.1 -11.4 10.9 Frame Column Wind_Left2- -Wind_Right2- Wind_Long1- Wind_Long2- -Seismic_Left Seismic |
| V V | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES | Frame Column – Seismic_Long – MIN_SNOW – F2UNB_SL_L – F2UNB_SL_R – Line Line Horiz Vert Horiz Vert Horiz Vert Horiz Vert 2* A 0.0 – 5.2 6.4 16.6 3.8 11.6 3.7 6.5 2* D 0.0 – 5.2 – 6.4 16.6 – 3.8 6.7 – 3.6 11.5 |
| Frm Col Load Hmax V Load Hmin V Bolt(in) Base_Plate(in) BP Elev. Line Line Id H Vmax Id H Vmin Qty Dia Width Length Thick (in) | Frame ColumnDeadCollateralLiveSnowWind_Left1Wind Line Line Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz |
| 1 A 7 5.6 13.7 1 -4.4 -6.5 4 0.750 8.000 20.50 0.500 0.0 1 D 2 4.3 -6.4 7 -5.6 13.6 4 0.750 8.000 20.50 0.500 0.0 | 5* A 1.2 3.8 2.1 5.3 6.1 15.0 4.7 11.5 -11.3 -20.0 0.8 5* D -1.2 3.9 -2.1 5.3 -6.1 15.0 -4.7 11.6 -0.7 -11.4 11.2 Frame ColumnWind_Left2Wind_Right2Wind_Long1Wind_Long2Seismic_Left Seisn |
| | Line Line Horiz Vert H |
| TIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES ——————————————————————————————————— | Frame Column -Seismic_Long -MIN_SNOWF3CRANEA5F3CRANEA6F3CRANEA7F3C Line Line Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz Vert Horiz 5* A 0.0 -5.2 6.8 16.6 -0.3 14.2 1.5 15.0 -0.3 5.8 1.5 |
| Line Line Id H Vmax Id H Vmin Qty Dia Width Length Thick (in) 2* A 7 9.6 25.6 3 -6.0 -5.0 4 0.750 8.000 26.63 0.500 0.0 | 5* D 0.0 -5.2 -6.7 16.6 -1.5 6.6 0.3 5.9 -1.5 15.0 0.3 Frome Column F3UNB_SL_L F3UNB_SL_R- Lion Lion Heat Vect |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 2* Frame lines: 2 3 4 | 2* Frame lines: 2 3 4 5* Frame lines: 5 6 7 |
| RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES | NOTES FOR REACTIONS Building reactions are based on |
| Frm Col Load Hmax V Load Hmin V Bolt(in) Base_Plate(in) BP Elev. Line Line Id H Vmax Id H Vmin Qty Dia Width Length Thick (in) | the following building data: Width (ft) = 60.0 Length (ft) = 150.0 |
| 5* A 7 10.1 25.7 3 -6.0 -5.0 4 0.750 8.000 34.63 0.500 0.0 8 8.0 29.0 5 0.5 -10.5 5* D 4 6.0 -4.9 7 -10.1 25.8 4 0.750 8.000 36.63 0.500 0.0 | Eave Height (ft) = 24.8/24.8 Roof Slope (rise/12) = 1.0/1.0 Dead Load (psf) = 3.0 Colleteral Load (osf) = 7.0 |
| 9 -8.0 29.1 6 -0.5 -10.4 5* Frame lines: 5 6 7 | Live Load (psf) = 20.0 Snow Load (psf) = 15.4 Wind Speed (mph) = 120.0 |
| ENDWALL COLUMN: BASIC COLUMN REACTIONS (K) | Wind Code = IBC 12 Exposure = C Closed/Open = C Importance Wind = 1.00 |
| Frm Col Dead Press Suct Line Vert Horz Horz 1 B 0.4 - 6.2 6.9 | Importance Seismic = 1.25 Seismic Zone = B Seismic Coeff (Fa*Ss) = 0.20 |
| 1 C 0.4 -6.3 6.9 7 C 0.4 -6.2 6.8 7 B 0.4 -6.2 6.8 | ID Description |
| ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES | 1 0.6Dead+0.6Wind_Left1 2 0.6Dead+0.6Wind_Right1 3 0.6Dead+0.6Wind_Left2 |
| Column_Reactions(k) Frm Col Load Hmax V Load Hmin V Bolt(in) Base_Plate(in) BP Elev. Line Ine Id H Vmax Id H Vmin Qty Dia Width Length Thick (in) | 4 0.blead+0.bWind_Kight2 5 0.6Dead+0.6Wind_Long1L 6 0.6Dead+0.6Wind_Long2L 7 Dead+Collateral+MIN_SNOW |
| 1 B 10 4.1 0.3 11 -3.7 0.3 4 0.750 8.000 8.125 0.500 0.0 12 3.1 0.4 1 0 4.2 0.3 11 3.8 0.3 4 0.750 8.000 8.125 0.500 0.0 | 8 Decid + Collisteral + 0.75Snow + 0.75Slide_Snow + 0.75F3CRANEA6 9 Decid + Collisteral + 0.75Snow + 0.75Slide_Snow + 0.75F3CRANEA7 10 0.6Decid + 0.6Wind_Right2 + 0.6Wind_Suction_ |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 11 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L 12 Dead+Collatera+0.4SWind_Right2+0.45Wind_Suction+0.75E 13 Dead+Collatera+0.45Wind_Right2+0.45Wind_Suction+0.75E2UNB_SL_R |
| 7 B 10 4.1 0.3 11 -3.7 0.3 4 0.750 8.000 8.125 0.500 0.0 13 3.1 0.4 | |
| ANCHOR BOLT SUMMARY | Per Iminaey Oni y |
| Qty Locate (in) Type (in) (in) | rreliminary unly |
| € 16 Endwall 3/4" A307 18.0 5.00 2.50 € 56 Frame 3/4" A307 18.0 5.00 2.50 | Not For Construction |
| BUILDING BRACING REACTIONS + Reactions(k) Panel Shear | |
| | |
| _EW 1 _SW D 2,3 2.2 4.0 2.8 5.2 (b) 5,6 2.2 4.0 2.8 5.2 (b) R FW 7 (b) | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | |
| b)Wind bent in bay, base above finish floor h)Rigid frame at endwall | |





Preliminary Only

Not For Construction

FOR INFORMATION ONLY



RIGID FRAME ELEVATION: FRAME LINE 1

| lange | Inside Flange |
|---------------------------------------|---|
| x Length | W x Thk x Length |
| ·" x 23'-10 15/16" ·" x 2'-7 5/16" | 6 x 1/4" x 21'-2 7/8" |
| " x 28'-0 1/2" | 6 x 1/4" x 8'-3 15/16" 6 x 1/4" x 19'-10 13/16" |
| " x 26'-8 9/16" | $6 \times 1/4" \times 19'-10 3/4"$ $6 \times 1/4" \times 7'-0 5/16"$ |
| ~" x 2'-7 3/8" ~" x 23'-10 15/16" | 6 x 1/4" x 21'-3" |
| | |



RIGID FRAME ELEVATION: FRAME LINE 2 3 4

| ange | Inside Flange |
|------------------------------|---------------------------------|
| : Length | W x Thk x Length |
| x 23'-10 15/16" | 6 x 3/8" x 10'-0" |
| x 2'-8 5/16" | 6 x 1/2" x 5'-0" |
| | 6 x 3/8" x 6'-1 3/4" |
| x 27'-11" | 6 x 1/4" x 8'-3 11/16" |
| | 6 x 1/4" x 19'-10 5/16" |
| x 26'-7 1/16" | 6 x 1/4" x 9'-10 1/8" |
| | 6 x 5/16" x 10'-0 1/16" |
| | 6 x 5⁄16" x 7'-0 1⁄4" |
| x 2'-8 3/8" | 6 x 3⁄8" x 6'-1 13⁄16" |
| x 23'-10 [′] 15/16" | 6 x 1/2" x 5'-0" ' |
| , | 6 x 3 [′] /8" x 10'-0" |
| | |



| ange | Inside Flange |
|------------------------------|---------------------------------|
| Length | W x Thk x Length |
| x 23'-10 15/16" | 6 x 3/8" x 10'-0" |
| x 3'-4 3/8" | 6 x 1/2" x 5'-0" |
| · | 6 x 5/16" x 5'-6 3/8" |
| x 27'-3 7/16" | 6 x 1/4" x 7'-9 5/8" |
| | 6 x 1/4" x 19'-10 1/4" |
| x 25'-9 9/16" | 6 x 1/4" x 9'-10 3/16" |
| | 6 x 5/16" x 9'-11 15/16" |
| | 6 x 1/4" x 6'-5 5/16" |
| x 3'-6 3/8" | 6 x 5/16" x 5'-4 5/8" |
| x 23'-10 [′] 15/16" | 6 x 1/2" x 5'-0" |
| , | 6 x 3 [′] /8" x 10'-0" |
| | · · · · · |



Preliminary Only

Not For Construction

FOR INFORMATION ONLY



| TRIM ROOF | TABLE F PLAN | | |
|--------------|-----------------|--------|----------|
| ⊘ID | MARK | LENGTH | DETAIL |
| | AST-33 | 15'-3" | TRIM_791 |

Preliminary Only

Not For Construction

ROOF FRAMING PLAN

| MEMBER | IABLE | |
|-----------|----------------------|--------------------------------|
| KUUF PLA | | |
| R_{0-1} | $14\sqrt{3}$ (12 | 10'-0.7/16" |
| R0-2 | 12x35012 | 10'-0.7/16" |
| R0-3 | 10x25C12 | 8'-0" |
| P-1 | 10x25Z12 | 27'-8 1/2" |
| P-2 | 10x25Z12 | 14'-7 3/4" |
| P-3 | 10x25Z12 | 4'-4 3/4" |
| P-4 | 10x25Z14 | 29'-5 1/2" |
| P-5 | 10x25Z12 | 28' - 4 3/4'' |
| | 10x25Z14 | 28 - 5 1/2 |
| | 10x25214 | 29 - 5 1/2 |
| | 10x23212 10x25714 | 27 - 0 - 1/2 29' - 2 - 1/2" |
| P = 10 | 10x25716 | 32'-5 1/2" |
| P-11 | 10x25Z16 | 31'-5 1/2" |
| P-12 | 10x25Z16 | 32'-5 1/2" |
| P-13 | 10x25Z14 | 29'-2 1/2" |
| P-14 | W10653 | 24'-11 3/4" |
| P-15 | W10653 | 24'-11 3/4'' |
| | 10ES14 | 24 - 11 1/2 |
| | 10ES14 | 24 - 11 1/2 |
| F_4 | 10ES14 | 24' - 11 1/2' |
| E-5 | 10ES14 | 24'-11 1/2" |
| Ē-6 | 10ES14 | 24'-11 1/2" |
| CB-1 | 1/4 Ø | 29'-3" |
| CB-2 | 1/4 Ø | 25'-0" |
| CB-3 | 1/4 Ø | 24'-5" |
| | 1/4 Ø | 29'-6" |
| I SStrut | L SAGSTR | 1 - 11 15/16" |

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- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RI DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PL THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" THE ENGINEER AT THE CONCLUSION OF THE PROJ
- 3. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SH VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK SHALL INCLUDE ALL COSTS, EQUIPMENT, MATER ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPL FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
- ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWII ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SH 5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMI
- COORDINATE WITH THE OWNER FOR ALL FEES AND

- THAT WAS INSTALLED AS PART OF THE BUILDING SHELL THA 2. EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATI
- UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFIC 3. SAWCUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MEC SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED
- CARE TO LOCATE EXISTING CONDUIT, ETC AND AVOID EXISTING CONDUITS BY NOT OVERCUTTING SLAB DEPTH. 4. SAWCUT AND CORE DRILL OPENINGS AS REQUIRED FOR GRADE SLAB PENETRATIONS. XRAY SLABS TO ASCERTAIN S
- OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING. 5. HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAK PANELBOARDS INDICATED. UTILIIZE SPARE BREAKERS AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS
- 6. EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE. 7. CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL (IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTI WIREMOLD WITH ARCHITECT TO BE AS CONCEALLED AND/OR

- TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTE INSTALLED ACCORDING TO SPECIFIED AND APPLICABI
- OR CUT OPENINGS TO ACCOMMODATE THROUGH-PEN 3. DO NOT COVER UP THROUGH-PENETRATION FIRESTOP
- 4. COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SU FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PEN THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITI SERVICE AND APPLICATION, AS DEMONSTRATEL THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BA
- 5. PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. U COMPONENTS SPECIFIED BY THROUGH-PENETRATION SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TEST INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
- SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING II

GENERAL ELECTRICAL NO

- 1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICA LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- 3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEI

| | | MECHANICAL P | IPING | PIPING SYMBOL | <u>s</u> |
|--|--|--|--|--|--|
| | HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER) | —— RL —— —— RS —— | - REFRIGERANT LIQUID - REFRIGERANT SUCTION | | Shutoff valve Shutoff valve in Riser |
| Th Th | SPIN-IN ROUND DUCT TAKEOFF | D | DRAIN (CONDENSATE) | | BALANCING VALVE |
| 고규 꼬규 금*도 | (WITH & WITHOUT MANUAL DAMPER) | —— CA —— —— CWS —— | - COMPRESSED AIR - CHILLED WATER SUPPLY | _×- | PLUG VALVE AUTO FLOW CONTROL VALVE |
| ╷╷╧ | CONICAL BELLMOUTH ROUND TAKEOFF | CWR | - CHILLED WATER RETURN - CHILLED HOT, WATER SUPPLY | | PIPING ELBOW UP DIDING ELBOW DOWN |
| | ROUND DUCT RUNOUT WITH FLEX DUCT | — C/HWR — | - CHILLED/HOT WATER RETURN | + | PIPING TEE |
| | DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES) | —— HWS —— —— HWR —— | - HOT WATER SUPPLY - HOT WATER RETURN | | PIPING ELBOW PIPING TEE UP |
| | FD:FIRE DAMPER FS:FIRE/SMOKE DAMPER | | - COOLING TOWER SUPPLY | | PIPING TEE DOWN |
| | SD:SMUKE DAMPER BD:BACKDRAFT DAMPER (GRAVIIT) | CTWR STM | - COOLING TOWER RETURN - STEAM (ANY #'S DENOTE PRESSURE) | —₽— —₩— | INCREASER / REDUCER UNION |
| | | CR | - CONDENSATE RETURN (#'S DENOTE PRESSURE) |] | CAP DIDE ELEX |
| <u>8°Ø</u> <u>225</u> | (NECK SIZE, TYPE AND CFM) | —— RV —— —— RD —— | - RUPTURE DISK | - 5 - | STRAINER |
| | LINEAR/SLOT DIFFUSER | PI UMBING PIPI | NG | ─┤∕╄─ ╶╫Ҭ╄─ | CHECK VALVE INLINE STRAINER |
| | SUPPLY AIR FLOW INDICATOR | | DOMESTIC COLD WATER | T | TEST PLUG |
| ~ | RETURN AND EXHAUST AIR FLOW INDICATOR | | DOMESTIC HOT WATER RECIRCULATING DOMESTIC HOT WATER | | GUIDE ANCHOR |
| ⊕ - ● | THERMOSTAT TEMPERATURE SENSOR | | WASTE ABOVE GRADE OR FLOOR | —Q_ | TRIPLE DUTY VALVE |
| Ē | HUMIDISTAT | — — SAN — — —— ST —— | · WASTE BELOW GRADE OR FLOOR · STORM ABOVE GRADE OR FLOOR | | AUTOMATIC 2-WAY CONTROL VALVE |
| | | — — ST — — | STORM BELOW GRADE OR FLOOR | | AUTOMATIC 3-WAY CONTROL VALVE |
| MEDICAL GAS | MEDICAL VACUUM PIPING | — — ST/0 — — | STORM OVERFLOW BELOW GRADE OR FLOOR | | SOLENOID VALVE |
| 0 | OXYGEN PIPING | — V — — — — — — — — — — — — — — — — — — | PLUMBING VENT WATER SERVICE | PIPING SPECIAL | TIES |
| — NO — — SA — | NITROUS OXIDE PIPING MEDICAL COMPRESSED AIR PIPING | G | GAS (NATURAL) | | PRESS/ TEMP GAUGE WITH COCK |
| — N — | NITROGEN PIPING | —— PD —— —— CA —— | - FROM SUMP PUMP DISCHARGE - COMPRESSED AIR | | THERMOMETER. |
| — co — — v v— | CARBON DIOXIDE PIPING VACUUM VENT PIPING | LP | PROPANE | HI LOW | |
| | WASTE ANESTHETIC GAS DISPOSAL PIPING | SCW SHW | SOFT DOMESTIC COLD WATER | —()— | PRESSURE REDUCING VALVE |
| —₀v — ⊢γ | MEDICAL GAS OUTLET W/ DESIGNATION (RE: BELOW) | | SOFT RECIRCULATING HOT WATER | _Å | RELIEF VALVE |
| | O OXYGEN N NITROGEN | VACID | ACID WASTE VENT | ∔ | WATER HAMMER ARRESTER |
| | NO NITROUS OXIDE | ——— NP ——— ——— DI ——— | · NON-POTABLE · DEIONIZED WATER | | |
| | WAGD WASTE ANESTHETIC GAS DISPOSAL CO CARBON DIOXIDE | RO | REVERSE OSMOSIS WATER | PLUMBING FIXT | URES/EQUIPMENT HOSE BIBB |
| | MV MEDICAL VACUUM | FIRE SPRINKLE | <u>R</u> | E+ WH | WALL HYDRANT |
| | sa sukuical aik S MEDICAL SLIDE | F | FIRE PROTECTION PIPING | ───────────────────────────────────── | clean out Reduced pressure backflow preventer |
| GENERAL SVM | OLS | | SIDEWALL SPRINKLER HEAD | DCBP | DOUBLE CHECK BACKFLOW PREVENTER |
| | INDICATES CONNECT TO EXISTING | ☆ ──₩≫₩── | FIRE PROTECTION SIAMESE CONNECTION POST INDICATOR VALVE | \sum_{WC-1} $\overline{\bigcirc}$ | PLUMBING FIXTURE AND CALLOUT |
| $\check{\oplus}$ | INDICATES ELEVATION | | | | FD: FLOOR DRAIN, AD: AREA DRAIN, FS: FLOOR SINK |
| · | | | | (Õ) <u>RD–1</u> | RD: ROOF DRAIN ORD: OVERFLOW ROOF DRAIN |
| | HOME RUN (2#12 1#12G UNO) | | DUPLEX RECEPTACLE. | FIRE ALARM | MANUAL PULL STATION |
| | INDICATES 2 PHASE, 1 N, & 1 GRD CONDUCTOR | ₩ Ω | LINE THRU DEVICE INDICATES ABOVE COUNTER SPECIAL DUPLEX RECEPTACLE | | CEILING SMOKE DETECTOR |
| | HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY | GFI | (GFCI, ISOLATED GROUND, ETC.) | (H) | HEAT DETECTOR |
| | | _ ₩ | QUADPLEX RECEPTACLE | ■ WF | WATERFLOW SWITCH |
| | | \leftrightarrow | | | |
| <u>UTILITIES</u> UGE | UNDERGROUND ELECTRICAL | \ominus_{5-50R} | MULTI-POLE RECEPTACLE W/NEWA CONFIG AS NOTED | ■ TS | TAMPER SWITCH |
| <u>UTILITIES</u> UGE OHE TELE | UNDERGROUND ELECTRICAL OVERHEAD ELECTRICAL TELECOMMUNICATIONS CONDUIT | | MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED CEILING MOUNTED RECEPTACLE | ■ TS) 75 | TAMPER SWITCH VISIBLE NOTIFICATION DEVICE WITH CANDELA F 75cd RATING UNLESS OTHERWISE NOTED ON 1 |
| UTILITIES UGE OHE TELE UGT | UNDERGROUND ELECTRICAL OVERHEAD ELECTRICAL TELECOMMUNICATIONS CONDUIT UNDERGROUND TELECOMMUNICATIONS CONDUIT | | MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED CEILING MOUNTED RECEPTACLE RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE" | ■ TS 文 75 文 30 | TAMPER SWITCH VISIBLE NOTIFICATION DEVICE WITH CANDELA F 75cd RATING UNLESS OTHERWISE NOTED ON AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH C RATING. 75cd UNLESS OTHERWISE NOTED O |
| UTILITIES UGE OHE TELE UGT | UNDERGROUND ELECTRICAL OVERHEAD ELECTRICAL TELECOMMUNICATIONS CONDUIT UNDERGROUND TELECOMMUNICATIONS CONDUIT | $ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} $ | MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED CEILING MOUNTED RECEPTACLE RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE" POKE-THRU WITH POWER | ■ TS ⊠ 75 ⊠√ 30 | TAMPER SWITCH VISIBLE NOTIFICATION DEVICE WITH CANDELA F 75cd RATING UNLESS OTHERWISE NOTED ON AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH C RATING. 75cd UNLESS OTHERWISE NOTED O HORN |
| UTILITIES UGE OHE TELE UGT LIGHTING | UNDERGROUND ELECTRICAL OVERHEAD ELECTRICAL TELECOMMUNICATIONS CONDUIT UNDERGROUND TELECOMMUNICATIONS CONDUIT FLUORESCENT LIGHT FIXTURE | \bigcirc_{5-50R} \bigcirc_{5-50R} \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED CEILING MOUNTED RECEPTACLE RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE" POKE-THRU WITH POWER POKE-THRU WITH TELECOMMUNICATIONS POKE-THRU W/POWER AND TELECOM | ■ TS 🖾 75 🖾 30 🖾 75 | TAMPER SWITCH VISIBLE NOTIFICATION DEVICE WITH CANDELA F 75cd RATING UNLESS OTHERWISE NOTED ON AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH C RATING. 75cd UNLESS OTHERWISE NOTED O HORN CEILING-MOUNTED STROBE LIGHT WITH CANDE RATING. MINIMUM OF 75cd RATING. |
| UTILITIES UGE OHE TELE UGT LIGHTING | UNDERGROUND ELECTRICAL OVERHEAD ELECTRICAL TELECOMMUNICATIONS CONDUIT UNDERGROUND TELECOMMUNICATIONS CONDUIT FLUORESCENT LIGHT FIXTURE FLUORESCENT STRIP FIXTURE | \bigcirc_{5-50R} \bigcirc_{5-50R} \bigcirc | MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED CEILING MOUNTED RECEPTACLE RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE" POKE-THRU WITH POWER POKE-THRU WITH TELECOMMUNICATIONS POKE-THRU W/POWER AND TELECOM SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR) | ■ TS ヌ 75 マーイ 30 ローイ ア5 マーイ 30 | TAMPER SWITCH VISIBLE NOTIFICATION DEVICE WITH CANDELA I 75cd RATING UNLESS OTHERWISE NOTED ON AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH C RATING. 75cd UNLESS OTHERWISE NOTED O HORN CEILING-MOUNTED STROBE LIGHT WITH CANDE RATING. MINIMUM OF 75cd RATING. CEILING-MOUNTED COMBINATION HORN/STROE CANDELA PATING MIN. OF 75cd RATING. |
| UTILITIES UGE TELE UGT LIGHTING | UNDERGROUND ELECTRICAL OVERHEAD ELECTRICAL TELECOMMUNICATIONS CONDUIT UNDERGROUND TELECOMMUNICATIONS CONDUIT FLUORESCENT LIGHT FIXTURE FLUORESCENT STRIP FIXTURE SURFACE/RECESSED LIGHT FIXTURE | \bigcirc_{5-50R} \bigcirc_{5-50R} \bigcirc | MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED CEILING MOUNTED RECEPTACLE RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE" POKE-THRU WITH POWER POKE-THRU WITH TELECOMMUNICATIONS POKE-THRU W/POWER AND TELECOM SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR) DIVIDED POWER POLE | ■ TS ヌ 75 マーン マーン フ5 マーン ス0 ス0 マーン | TAMPER SWITCH VISIBLE NOTIFICATION DEVICE WITH CANDELA I 75cd RATING UNLESS OTHERWISE NOTED ON AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH C RATING. 75cd UNLESS OTHERWISE NOTED O HORN CEILING-MOUNTED STROBE LIGHT WITH CANDE RATING. MINIMUM OF 75cd RATING. CEILING-MOUNTED COMBINATION HORN/STROB CANDELA RATING. MIN. OF 75cd RATING. CEILING-MOUNTED HORN |
| UTILITIES UGE UGE UGT LIGHTING | UNDERGROUND ELECTRICAL OVERHEAD ELECTRICAL TELECOMMUNICATIONS CONDUIT UNDERGROUND TELECOMMUNICATIONS CONDUIT FLUORESCENT LIGHT FIXTURE FLUORESCENT STRIP FIXTURE SURFACE/RECESSED LIGHT FIXTURE WALL-MOUNTED LIGHT FIXTURE POLE-MOUNTED LIGHT FIXTURE | \bigcirc_{5-50R} \bigcirc_{5-50R} \bigcirc | MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED CEILING MOUNTED RECEPTACLE RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE" POKE-THRU WITH POWER POKE-THRU WITH TELECOMMUNICATIONS POKE-THRU W/POWER AND TELECOM SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR) DIVIDED POWER POLE CLOCK RECEPTACLE | ■ TS ズ 75 ズ 30 ズ 75 ズ 30 ズ 5 ズ 5 | TAMPER SWITCH VISIBLE NOTIFICATION DEVICE WITH CANDELA F 75cd RATING UNLESS OTHERWISE NOTED ON AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH C RATING. 75cd UNLESS OTHERWISE NOTED O HORN CEILING-MOUNTED STROBE LIGHT WITH CANDE RATING. MINIMUM OF 75cd RATING. CEILING-MOUNTED COMBINATION HORN/STROE CANDELA RATING. MIN. OF 75cd RATING. CEILING-MOUNTED HORN CEILING-MOUNTED HORN CEILING-MOUNTED SPEAKER |
| UTILITIES UGE UGE TELE UGT LIGHTING © LIGHTING IG | UNDERGROUND ELECTRICAL OVERHEAD ELECTRICAL TELECOMMUNICATIONS CONDUIT UNDERGROUND TELECOMMUNICATIONS CONDUIT FLUORESCENT LIGHT FIXTURE FLUORESCENT STRIP FIXTURE SURFACE/RECESSED LIGHT FIXTURE WALL-MOUNTED LIGHT FIXTURE POLE-MOUNTED LIGHT FIXTURE EXIT LIGHT | \bigcirc_{5-50R} \bigcirc_{5-50R} \bigcirc | MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED CEILING MOUNTED RECEPTACLE RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE" POKE-THRU WITH POWER POKE-THRU WITH TELECOMMUNICATIONS POKE-THRU W/POWER AND TELECOM SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR) DIVIDED POWER POLE CLOCK RECEPTACLE PLUG MOLD / WIRE MOLD AS SPECIFIED | ■ TS ズ 75 ズ 30 ズ 75 ズ 30 ズ 75 ズ 8 75 ズ 75 ズ 75 ズ 75 ズ 75 ズ 75 ズ 75 ズ 75 75 75 75 75 75 75 75 75 75 | TAMPER SWITCH VISIBLE NOTIFICATION DEVICE WITH CANDELA F 75cd RATING UNLESS OTHERWISE NOTED ON AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH C RATING. 75cd UNLESS OTHERWISE NOTED O HORN CEILING-MOUNTED STROBE LIGHT WITH CANDE RATING. MINIMUM OF 75cd RATING. CEILING-MOUNTED COMBINATION HORN/STROE CANDELA RATING. MIN. OF 75cd RATING. CEILING-MOUNTED HORN CEILING-MOUNTED HORN CEILING-MOUNTED SPEAKER RELAY |
| UTILITIES UGE UGE TELE UGT LIGHTING © H H H H H H H H H H H H H | UNDERGROUND ELECTRICAL OVERHEAD ELECTRICAL TELECOMMUNICATIONS CONDUIT UNDERGROUND TELECOMMUNICATIONS CONDUIT FLUORESCENT LIGHT FIXTURE FLUORESCENT STRIP FIXTURE SURFACE/RECESSED LIGHT FIXTURE WALL-MOUNTED LIGHT FIXTURE POLE-MOUNTED LIGHT FIXTURE EXIT LIGHT BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD) | \bigcirc_{5-50R} \bigcirc_{5-50R} \bigcirc | MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED CEILING MOUNTED RECEPTACLE RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE" POKE-THRU WITH POWER POKE-THRU WITH TELECOMMUNICATIONS POKE-THRU W/POWER AND TELECOM SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR) DIVIDED POWER POLE CLOCK RECEPTACLE PLUG MOLD / WIRE MOLD AS SPECIFIED JUNCTION BOX THERMOSTAT | ■ TS ズ 75 ズ 30 ズ 75 ズ 30 ズ 5 75 75 75 75 75 75 75 75 75 75 | TAMPER SWITCH VISIBLE NOTIFICATION DEVICE WITH CANDELA F 75cd RATING UNLESS OTHERWISE NOTED ON AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH C RATING. 75cd UNLESS OTHERWISE NOTED O HORN CEILING-MOUNTED STROBE LIGHT WITH CANDE RATING. MINIMUM OF 75cd RATING. CEILING-MOUNTED COMBINATION HORN/STROE CANDELA RATING. MIN. OF 75cd RATING. CEILING-MOUNTED HORN CEILING-MOUNTED HORN CEILING-MOUNTED SPEAKER RELAY FIRE ALARM CONTROL PANEL |
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| A/E | ARCHITECT / ENGINEER | ELEV | ELEVATION |
|------|-------------------------------|------|---------------------------------|
| ÁFF | ABOVE FINISHED FLOOR | ЕМ | EMERGENCY FIXTURE/DEVICE |
| AFG | ABOVE FINISHED GRADE | EWT | ENTERING WATER TEMPERATURE |
| AG | ABOVE GRADE | ΕX | EXISTING ITEM |
| AHJ | AUTHORITY HAVING JURISDICTION | FFA | FROM FLOOR ABOVE |
| AHU | AIR HANDLING UNIT | FFB | FROM FLOOR BELOW |
| ARCH | ARCHITECT | FFC0 | FINISHED FLOOR CLEAN OUT |
| BFP | BACKFLOW PREVENTER | FGCO | FLUSH GRADE CLEAN OUT |
| BG | BELOW GRADE | FL | FLOW LINE |
| BLDG | BUILDING | FLR | FLOOR |
| BMS | BUILDING MANAGEMENT SYSTEM | FP | FIRE PROTECTION |
| С | CONDUIT | FPM | FEET PER MINUTE |
| CD | CANDELA | FWCO | FLUSH WALL CLEAN OUT |
| CD | COLD DECK | G | GROUND / GANG |
| CLG | COOLING | G/C | GENERAL CONTRACTOR |
| СМ | COORDINATE MOUNTING HEIGHT | ĠFCI | GROUND FAULT CIRCUIT INTERUPTER |
| СО | CLEAN OUT | GPM | GALLONS PER MINUTE |
| CTE | CONNECT TO EXISTING | HD | HOT DECK |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY | HTG | HEATING |
| DCW | DOMESTIC COLD WATER | IG | ISOLATED GROUND |
| DDC | DIRECT DIGITAL CONTROLS | JB | JUNCTION BOX |
| DF | DRINKING FOUNTAIN | LED | LIGHT EMITTING DIODE |
| DHW | DOMESTIC HOT WATER | LWT | LEAVING WATER TEMPERATURE |
| DHWR | DOMESTIC HOT WATER RETURN | M/C | MECHANICAL CONTRACTOR |
| DIA | DIAMETER | ŃA | MIXED AIR |
| DN | DOWN | MAU | MAKE UP AIR UNIT |
| E/C | ELECTRICAL CONTRACTOR | МСВ | MAIN CIRCUIT BREAKER |
| EA | EXHAUST AIR | MECH | MECHANICAL |
| EDF | ELECTRIC DRINKING FOUNTAIN | MH | MANHOLE |

| | MLO | MAIN LUGS ONLY |
|---|--------|---------------------------|
| | NFA | NET FREE AREA |
| | NL | NIGHT LIGHT |
| | OA | OUTSIDE AIR |
| | ORD | OVERFLOW ROOF DRAIN |
| | P/C | PLUMBING CONTRACTOR |
| | PSI | POUNDS PER SQUARE INCH |
| | PVC | POLYVINYLCHLORIDE |
| | RA | RETURN AIR |
| | RE/REF | REFER / REFERENCE |
| | RF | RELIEF FAN |
| | RL | RELOCATED ITEM |
| | RPZ | REDUCED PRESSURE ZONE |
| | RR | RESTROOM |
| | SA | SUPPLY AIR |
| R | SPD | SURGE PROTECTIVE DEVICE |
| | ST | SHUNT TRIP |
| | TA | TRANSFER AIR |
| | TFA | TO FLOOR ABOVE |
| | TFB | TO FLOOR BELOW |
| | TP | TAMPERPROOF |
| | TYP | TYPICAL |
| | UNO | UNLESS NOTED OTHERWISE |
| | VRF | VARIABLE REFRIGERANT FLOW |
| | VTR | VENT THROUGH ROOF |
| | WCO | WALL CLEANOUT |
| | WG | WIRE GUARD |
| | WP | WEATHERPROOF |
| | | |

| U | |
|----|--|
| 1. | CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS AND FEES IMPOSED BY THE UTILITY PROVIDERS TO PROVIDE NEW SERVICES BUILDING. |
| 2. | NOTIFY THE UTILITY PROVIDERS AND ALL AFFECTED CUSTOMERS A MINIMUM OF 48 HOURS BEFORE ANY INTERRUPTION IN SERVICES. |
| 3. | FIELD VERIFY ALL ABOVE AND BELOW GRADE UTILITIES. CALL 1–800–DIG–SAFE (1–800–344–7233) 48 HOURS PRIOR TO ANY DIGGING FOR UTILITY LOCATORS. |
| 4. | UTILITY PROVIDER CONTACTS: |

ELECTRICAL: EVERGY, JESSE KNIGHT (785) 629-8804 GAS: KANSAS GAS, (800) 794–4780 WATER AND SEWER: CITY OF MARYSVILLE, (785) 562-3158

| PIPING | | | | | FIELD TEST | | INSULATION | |
|--------------------------------|-------------|----------------------|-----------------|---------------------------|-----------------|---------|-------------------|-----------------|
| SYSTEM | SIZE | TYPE/SCHED | MATERIAL | ACCEPTABLE FITTINGS | PRESSURE/TIME | PLENUMS | TYPE | THICKNESS |
| DOMESTIC COLD WATER | 1/2"-2-1/2" | L | COPPER | SOLDER, PRO-PRESS | 130 PSI – 1/2HR | YES | FIBERGLASS W/ ASJ | 1/2" |
| DOMESTIC HOT WATER & HW RETURN | 1/2"-2-1/2" | L | COPPER | SOLDER, PRO-PRESS | 130 PSI – 1/2HR | YES | FIBERGLASS W/ ASJ | 1" |
| DOM. HOT & COLD BELOW GRADE | 1/2"-1-1/4" | К | COPPER | CONTINUOUS TUBING, BRAZED | 130 PSI – 1/2HR | YES | ELASTOMERIC | 3/4" (HOT ONL) |
| NATURAL GAS – ABOVE GRADE | 2-1/2 & Up | SCH. 40 | STEEL– SEEMED | WELDED | 75 PSI – 1HR | YES | | |
| NATURAL GAS – ABOVE GRADE | 1/2"-2" | SCH. 40 | STEEL- SEEMLESS | THREADED IRON | 75 PSI – 1HR | YES | | |
| NATURAL GAS BELOW GRADE | ALL | SDR-11 | POLYETHYLENE | Fusion Joints | 100 PSI – 1HR | NO | | |
| SOIL & WASTE ABOVE GRADE | 1-1/2"-6" | NO HUB / SERVICE WT. | CAST IRON | NO HUB | 10 FT – 1/2HR | YES | | |
| SOIL & WASTE ABOVE GRADE | 2"-8" | SCH. 40 | PVC | SOLVENT JOINED | 10 FT — 1/2HR | NO | | |
| SOIL & WASTE BELOW GRADE | 2"-8" | SCH. 40 | PVC | SOLVENT JOINED | 10 FT – 1/2HR | NO | | |
| DRINKING FOUNT. DRAIN | ALL | | | | | YES | ELASTOMERIC | 1/2" |
| CONDENSATE DRAIN INTERIOR | 1/2"-2" | L | COPPER | SOLDER, PRO-PRESS | 10 FT – 1/2HR | YES | FIBERGLASS W/ ASJ | 1/2" (PLENUM ON |
| DOM. WATER SERVICE BELOW GRADE | 1"-3" | К | COPPER | CONTINUOUS TUBING, BRAZED | 130 PSI – 1/2HR | YES | | |
| DOM. WATER SERVICE BELOW GRADE | 1"-3" | DR 9 | HDPE | CONTINUOUS TUBING, FUSED | 130 PSI – 1/2HR | NO | | |

3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

| FLO | FLOOR / ROOF DRAIN SCHEDULE | | | | | | | |
|------------------------|-----------------------------|-----------------|--------------|-------------------|---------------|---------|--|--|
| PLAN MARK | MANUFACTURER | MODEL NUMBER | SERVICE | TOP/GRATE SIZE | WASTE SIZE | REMARKS | | |
| FD-1 | WADE | 1100 | FLOOR DRAIN | 6 <i>"</i> Ø | 2" | 1 | | |
| FS-2 | WADE | 9100 | FLOOR SINK | 8"x8" | 2" | 1 | | |
| TRENCH | ZURN | PERMA-TRENCH | TRENCH DRAIN | SEE PLAN | 4 " | | | |
| REMARKS: 1. PROVIDE | WITH NICKEL BRONZ | 'E TOP. | | | | | | |

ELEVATOR SUMP PUMP AND PIT NOT TO SCALE

| ELEVATOR SUMP PUMP SCHEDULE | | | | | | | | | | | |
|-----------------------------|--------------|--------------|-----|------------------|-------------------------------|-------|--|--|--|--|--|
| PLAN MARK | MANUFACTURER | MODEL NUMBER | GPM | HEAD FT. W.C. | ELECTRICAL CHARACTERISTICS | NOTES | | | | | |
| ELEV. SUMP PUMP | LIBERTY | ELV280 | 50 | 15 | 1/2 HP, 120V. | 1,2,3 | | | | | |
| NOTES LEGEND | | | | | | | | | | | |

1 - PROVIDE COMPLETE PACKAGED SUMP PUMP SYSTEM WHICH SHALL INCLUDE PUMP, OILTECTOR CONTROL AND REMOTE ALARM. 2 - PROVIDE WITH 24"Ø X 36" DEEP FIBERGLASS BASIN.

3 - REMOTE ALARM SHALL ACTIVATE IN THE EVENT OF A HIGH WATER CONDITION OR HIGH OIL CONDITION.

| DOMEST | IC WATER | PUMP SC | HEDU | JLE | | |
|--------------|----------------|--------------|------|------------------|-------------------------------|----------|
| PLAN MARK | MANUFACTURER | MODEL NUMBER | GPM | HEAD FT. W.C. | ELECTRICAL CHARACTERISTICS | MA RP |
| DHW RETURN | BELL & GOSSETT | PL-30B | 7 | 20 | 1/12 HP, 120V., 1ø | 26 |
| | | | | | | |

NOTES LEGEND 1 - ALL BRONZE CONSTRUCTION WITH THERMOSTATIC CONTROL BY HOT WATER RETURN TEMP.

SAND AND OIL INTERCEPTOR DETAIL - 1000 GALLON NOT TO SCALE

> TYPICAL COMPRESSED AIR DROP NOT TO SCALE

| IMBING FIXT | URE SCHEDULE | | | | | | |
|------------------------------------|---|---|--|-------|------|--------|-----|
| FIXTURE | | FITTINGS | | | PIPE | SIZES | |
| MODEL | | MODEL | | WASTE | VENT | DCW | DH |
| AMERICAN STANDARD 2234.015 | WATER CLOSET: FLUSH VALVE, WHITE ELONGATED BOWL, FLOOR MOUNTED, 1.6 GALLON SIPHON JET FLUSHING ACTION | SLOAN 111 | EXPOSED WATER CLOSET FLUSH VALVE, CHROME PLATED 1.6 GALLON FLUSH, WITH WALL AND SPUD FLANGES MOUNT HANDLE AT 24" ABOVE FLOOR | 4" | 2" | 1-1/4" | |
| CHURCH 9500C | SEAT: WHITE, SOLID PLASTIC, OPEN FRONT, ELONGATED | | | | | | |
| AMERICAN STANDARD 0355.012 | ADA COMPLIANT LAVATORY: WHITE WALL HUNG LAVATORY 20"x18" WITH 4" BACK FAUCET HOLES ON 4" CENTERS, WITH CONCEALED ARM CARRIER. PROVIDE HANDLE STOP VALVES AND FLEXIBLE METAL WATER RISERS. MOUNT TOP OF RIM AT 34" ABOVE FLOOR | AMERICAN STANDARD 2175.504 | FAUCET: 4" CENTERSET, CHROME FINISH WITH 4" METAL LEVER HANDLE, 1/2" CONNECTIONS, 1.5 GPM MAX FLOWRATE. CHROME PLATED BRASS GRID DRAIN, TAILPIECE, AND P-TRAP INSULATE THE TAILPIECE, P-TRAP, AND WATER RISERS | 2" | 2" | 1/2" | 1/2 |
| HALSEY-TAYLOR HTHB-HAC8BLPV-NF | ADA COMPLIANT DUAL HEIGHT ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION: 8 GPH OF 50 DEGREE WATER WITH FRONT AND SIDE PUSHBARS, MOUNT WITH 27" OF KNEE CLEARANCE, MOUNT ON CONCEALED ARM CARRIER | | | 2" | 2" | 1/2" | |
| ELKAY LR–2022 | SINGLE COMPARTMENT SINK: SEAMLESS 18 GAUGE, TYPE 302 STAINLESS STEEL, SATIN FINISH WITH FULL UNDERCOAT, HOLES 4" ON CENTERS, 7 1/2" BOWL DEPTH, SELF RIMMING, PROVIDE HANDLE STOP VALVES AND FLEXIBLE METAL WATER RISERS | AMERICAN STANDARD 7500.140 | CENTERSET GOOSENECK FAUCET WITH METAL LEVER HANDLES, 1/2" CONNECTIONS, POLISHED CHROME FINISH WITH BASKET STRAINER AND DRAIN, CHROME PLATED BRASS TAILPIECE AND P-TRAP, INSULATE THE TAILPIECE, P-TRAP, AND WATER RISERS | 2" | 2" | 1/2" | 1/2 |
| ELKAY LR–3321 | DOUBLE COMPARTMENT SINK: SEAMLESS 18 GAUGE, TYPE 302 STAINLESS STEEL, SATIN FINISH WITH FULL UNDERCOAT, SINGLE HOLE, 8" BOWL DEPTH, SELF RIMMING, PROVIDE HANDLE STOP VALVES AND FLEXIBLE METAL WATER RISERS | AMERICAN STANDARD 4332.350 | CAST BRASS FLEXIBLE GOOSENECK KITCHEN FAUCET WITH SINGLE METAL LEVER HANDLE, 1/2" CONNECTIONS, POLISHED CHROME FINISH, SINGLE HOLD, PROVIDE CHROME PLATED BRASS BASKET STRAINER, DRAIN, TAILPIECE, AND P-TRAP | 2" | 2" | 1/2" | 1/2 |
| FIAT MSB-2424 | JANITORS SINK: WHITE 24"X24"X10" ONE PIECE MOLDED STONE MOP BASIN, WITH STAINLESS STEEL DRAIN BODY WITH 3" WASTE WITH STAINLESS STEEL WALL GUARDS | FIAT 830-AA | CHROME PLATED BRASS WALL MOUNTED FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, 3/4" HOSE THREAD SPOUT, INDEXED HANDLES, WITH 5 FOOT HOSE AND BRACKET, MOP HANGER AND HOSE RACK | 3" | 2" | 1/2" | 1/2 |
| FIAT L—1 | LAUNDRY TUB: WHITE 23"x21 1/2"x13" DEEP, WALL MOUNTED, 20 GALLON TUB, WITH CONCEALED ARM CARRIER AND SUPPORTS PROVIDE HANDLE STOP VALVES AND FLEXIBLE METAL WATER RISERS | FIAT A—1 | BRASS FAUCET WITH SWING SPOUT, MOUNT ON REAR DECK OF TUB PROVIDE CHROME PLATED BRASS GRID DRAIN, TAILPIECE, AND P-TRAP | 2" | 2" | 1/2" | 1/2 |
| BRADLEY MF2933/STD/IR/LSD/COLOR | TRIPLE WASHFOUNTAIN: TERREON SOLID SURFACE INTEGRAL UNIT WITH PLUG-IN INFRARED ACTIVATION, ONE TO THREE USERS AT A TIME INDIVIDUALLY CONTROLLED, THERMOSTATIC MIXING ASSEMBLY AND LIQUID SOAP DISPENSER. PROVIDE WITH WALL HUNG FRAME AND PEDESTAL PANEL. COLOR TO BE SELECTED BY ARCHITECT | | | 2" | 2" | 1/2" | 1/2 |
| BRADLEY S19–224 | EYE/FACE WASH UNIT WITH FACE SPRAY RING AND STAINLESS STEEL BOWL —BARRIER FREE MODEL— | BRADLEY S19–2100 | NAVIGATOR EFX25 —— EMERGENCY THERMOSTATIC MIXING VALVE | 2" | 2" | 3/4" | 3/- |
| ELKAY RNSF 83544 | TRIPLE COMPARTMENT SCULLERY SINK: #16 GAUGE, TYPE 304, NICKEL BEARING STAINLESS STEEL, COMPARTMENT 18"x24"x12.75" DEEP, SEAMLESS DRAWN 1 3/4" RADIUS COVED CORNER CONSTRUCTION. FULL LENGTH 8" HIGH BACKSPLASH WITH 45 DEGREE SLOPED TOP, FOUR ADJUSTABLE SUPPORT LEGS | AMERICAN STANDARD 7298.152 (2) REQUIRED | WALL MOUNTED SINK FAUCET: 8" SWIVEL SPOUT, CHROME PLATED BRASS CONSTRUCTION AND WASHERLESS CERAMIC DISC VALVE CARTRIDGES. | 2" | 2" | 1/2" | 1/2 |
| FIAT MSB-3624 | ANIMAL WASH SINK: WHITE 36"X24"X10" ONE PIECE MOLDED STONE WASH BASIN, WITH STAINLESS STEEL DRAIN BODY WITH 3" WASTE WITH 12" HIGH STAINLESS STEEL WALL GUARDS | FIAT 830-AA | CHROME PLATED BRASS WALL MOUNTED FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, 3/4" HOSE THREAD SPOUT, INDEXED HANDLES, WITH 10 FOOT HOSE AND BRACKET, HANGER, HOSE RACK, AND HAND HELD SPRAY NOZZLE | 3" | 2" | 1/2" | 1/2 |

| PLAN MARK | MANUFACTURER | MODEL NUMBER | GALLONS | CAPACITY | ELECTRICAL | NOTES |
|----------------|--------------|----------------|---------|-------------|------------------|-------|
| WATER HEATER-1 | STATE | GS6 50 YRPDT 5 | 50 | 65,000 BTUH | 120V, 1PH, 20AMP | 1,2 |
| NOTES LEGEND | | | | | | |

1 - PROVIDE MOUNTING LEGS. 3 - PROVIDE CONCENTRIC VENT KIT.

NOTES

ACCESSIBLE EYE WASH NOT TO SCALE

PROPELLER EXHAUST FAN DETAIL NOT TO SCALE

| | | DUCT | | | INSULATION | | [|
|-------------|-------------------------|--------------------------|-------------|----------------------------------|------------------|-----------|------|
| PURPOSE | DUTY | LOCATION | STYLE | MATERIAL | APPLICATION | THICKNESS | NOTE |
| SUPPLY | | CONCEALED | RECTANGULAR | FIBERGLASS | LINED | 1/2" | |
| | | CONCEALED | ROUND | MINERAL FIBER | WRAPPED | 1-1/2" | |
| | LOW PRESSURE/VELOCITY | EXPOSED | RECTANGULAR | FIBERGLASS | LINED | 1/2" | |
| | | EXPOSED | ROUND | DOUBLE WALL INSULATED FIBERGLASS | DOUBLE WALL DUCT | 1/2" | |
| | | EXTERIOR | ALL | FLEXIBLE ELASTOMERIC | WRAPPED | 2" | |
| RETURN | | CONCEALED | RECTANGULAR | FIBERGLASS | LINED | 1/2" | |
| | | CONCEALED | ROUND | MINERAL FIBER | WRAPPED | 1-1/2" | |
| | LOW PRESSURE/VELOCITY | EXPOSED | RECTANGULAR | FIBERGLASS | LINED | 1/2" | |
| | | EXPOSED | ROUND | DOUBLE WALL INSULATED FIBERGLASS | DOUBLE WALL DUCT | 1/2" | |
| | | RETURN/TRANSFER BOOTS | RECTANGULAR | FIBERGLASS | LINED | 1/2" | |
| | | EXTERIOR | ALL | FLEXIBLE ELASTOMERIC | WRAPPED | 2" | |
| EXHAUST | | CONCEALED | RECTANGULAR | FIBERGLASS | LINED | 1/2" | |
| | I OW PRESSURE /VELOCITY | CONCEALED | ROUND | FIBERGLASS | LINED | 1/2" | 2 |
| | | EXPOSED | RECTANGULAR | FIBERGLASS | LINED | 1/2" | |
| | | EXPOSED | ROUND | FIBERGLASS | LINED | 1/2" | 2 |
| OUTSIDE AIR | | CONCEALED OR MECH. SPACE | RECTANGULAR | MINERAL FIBER | WRAPPED | 1-1/2" | |
| | Διι | CONCEALED OR MECH. SPACE | ROUND | MINERAL FIBER | WRAPPED | 1-1/2" | |
| | | EXPOSED (NON MECH SPACE) | RECTANGULAR | RIGID FIBERGLASS BD. | WRAPPED | 1" | 3 |
| | | EXPOSED (NON MECH SPACE) | ROUND | RIGID FIBERGLASS BD. | WRAPPED | 1" | 3 |

1. IN ADDITION TO OTHER SCHEDULED INSULATION.

2. PROVIDE LINER ONLY WITHIN 10' OF FAN FOR ACCOUSTICS. 3. THICKNESS SHALL ENCAPSULATE DUCT CONSTRUCTION.

4. INSTALL FROM UNIT DISCHARGE TO FIRST DUCT ELBOW, THEN 10' FURTHER. NOT REQUIRED INSIDE CHASES OR MECHANICAL ROOMS, BUT SHALL BE INSTALLED ON REMAINING DUCTWORK WHEN 10' DIMENSION FALLS OUTSIDE ROOM.

GENERAL REMARKS (APPLICABLE TO ALL TYPES):

1) ALL DUCTWORK, INSULATION AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.

2) ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 – 2010 REQUIREMENTS AT A MINIMUM.

3) REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION FOR INSULATION PRODUCTS AND SYSTEMS.

| MAKE | -UP AIF | UNIT S | CHEDULE | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|-----------------|---------------|-----------------------|--------------|------------|---------------|--------|------------------|-----------------------------|-----------------------------|-----------------------|------------|----------|----------|----------|----------|-------------------|----------------------|---------|--|-----|--------------------------|-------------|------|-----------------|--------------------------------|------------|
| - | | | | | ι | Jnit | | | | | | | | | | | | | | Cooling | | | | | Ga | s Heating | |
| | | | | | Ele ctrica | I | | | Supp | oly Fan | - 50 | | E | AT | L | АТ | | | Ambien | t Compress | or | Arc. M | 540 | | | Total | |
| TAG | Weight (Ibs) | Make | Model | Voltage | MCA (A) | MROPD (A) | EER | Airflow (CFM) | ESP (inH ₂ O) | TSP (inH ₂ O) | Motor Size (HP) | Efficiency | EDB (°F) | EWB (°F) | LDB (°F) | LWB (°F) | Total Capacity | Sensible Capacity | DB (°F) | Stages | Qty | Compressor Power (kW) | Refrigerant | Туре | Stages | Output Capacity (Btu/hr) | y EDB (°F) |
| DOAS-1 | 2082 | Daikin | DPS007A | 460/60/3 | 14.8 | 20 | 11.7 | 1200 | 1 | 1.11 | 2.3 | 2" MERV 8 | 97.2 | 75.7 | 53.4 | 53.4 | 90676 | 57444 | 95 | Modulating Control with Inverter Compressors | 2 | 5.6 | R410A | Gas | Modulating 10:1 | 160000 | 0 |
| Notes: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Provide fac | tory installe | ed non-fused disco | nnect | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Provide mo | dulating ho | t gas reheat | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Provide un | it powered o | outside air damper | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Provide do | uble wall co | onstruction with inje | ected foam i | nsulation | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Provide lea | d circuit wit | th variable speed ir | nverter comp | pressor | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Provide va | iable speed | supply fan with E | C motor | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Provide va | iable speed | condensers fans | with EC mot | tors | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Provide sta | ainless stee | l gas heat exchang | ger | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | Provide we | lded and ful | lly insulated pad m | ounted plen | um curb w | ith side disc | charge | | | | | | | | | | | | | | | | | | | | |

| FL | FURNACE SCHEDULE | | | | | | | | | | | | | | | | | |
|--------------|------------------|-----------------------|------------------|--------------|--------------------|--------------------|--------------------|--------------------|---------------------|----------------|-------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|---------|--|
| PLAN MARK | MANUFACTURER | MODEL NUMBER | CABINET WIDTH | TOTAL CFM | OUTDOOR AIR CFM | STATIC PRESSURE | MOTOR HP/HI EFF | HEAT INPUT BTUH | HEAT OUTPUT BTUH | FLUE OUTLET | COMBUSTION AIR INLET | EVAPORATOR MODEL | COOLING CAPACITY | ENTERING AIR DRY/WET | LEAVING AIR DRY/WET | ELECTRICAL | FILTER | |
| F-1 | TRANE | T U/D X1 D120A 9H-90% | 25" | 1980 | 230 | 0.7" | 1 HP/ECM | 120 | 108 | 3" | 3" | 4TXC 064E | 5 TON | 78/65 | 57/55 | 120 V, 1 PH. | MERV 13 | |
| F-2 | TRANE | T U/D X1 C100A 9H-90% | 21" | 1400 | 160 | 0.7" | 3/4 HP/ECM | 100 | 90 | 3" | 2" | 4TXC 048C | 4 TON | 78/65 | 57/55 | 120 V, 1 PH. | MERV 13 | |
| F-3 | TRANE | T U/D X1 C100A 9H-90% | 21" | 1600 | 180 | 0.7" | 3/4 HP/ECM | 100 | 90 | 3" | 2" | 4TXC 048C | 4 TON | 78/65 | 57/55 | 120 V, 1 PH. | MERV 13 | |
| F-4 | TRANE | T U/D X1 D120A 9H-90% | 25" | 1980 | 230 | 0.7" | 1 HP/ECM | 120 | 108 | 3" | 3" | 4TXC 064E | 5 TON | 78/65 | 57/55 | 120 V, 1 PH. | MERV 13 | |
| F-5 | TRANE | T U/D X1 D120A 9H-90% | 25" | 1980 | 230 | 0.7" | 1 НР/ЕСМ | 120 | 108 | 3" | 3" | 4TXC 064E | 5 TON | 78/65 | 57/55 | 120 V, 1 PH. | MERV 13 | |

| NOTES LEGE | ND | |
|------------|----------------------------------|-----|
| L CONNECT | TO EXISTING CAMPUS CONTROLS SYST | гем |

| ATION | | |
|-----------------|-----------|-------|
| APPLICATION | THICKNESS | NOTES |
| LINED | 1/2" | |
| WRAPPED | 1-1/2" | |
| LINED | 1/2" | |
| OUBLE WALL DUCT | 1/2" | |
| WRAPPED | 2" | |
| LINED | 1/2" | |
| WRAPPED | 1-1/2" | |
| LINED | 1/2" | |
| OUBLE WALL DUCT | 1/2" | |
| LINED | 1/2" | |
| WRAPPED | 2" | |
| LINED | 1/2" | |
| LINED | 1/2" | 2 |
| LINED | 1/2" | |
| LINED | 1/2" | 2 |
| WRAPPED | 1-1/2" | |
| WRAPPED | 1-1/2" | |
| WRAPPED | 1" | 3 |
| WRAPPED | 1" | 3 |

FURNACE AND CONDENSING UNIT DETAIL NO SCALE

CONDENSING UNIT SCHEDULE

| PLAN MARK | MANUFACTURER | MODEL NUMBER | NOMINAL SIZE | SENSIBLE MBH | TOTAL MBH | AMBIENT | SUCTION | LIQUID | COMPRESSORS | ELECTRICAL | MOCP AMPS | MIN CIRCUIT AMPS | DISCONNECT | I |
|--------------|--------------|-----------------|-----------------|-----------------|--------------|---------|---------|--------|-------------|----------------|--------------|---------------------|------------|---|
| CU–1 | TRANE | 4TTA4060 | 5 TONS | 43.3 | 56.9 | 100 | 7/8" | 3/8" | 1 | 208/240V, 3PH. | 35 | 21 | YES | |
| CU–5 | TRANE | 4TTA4048 | 4 TONS | 33.8 | 43.6 | 100 | 7/8" | 3/8" | 1 | 208/240V, 3PH. | 30 | 18 | YES | |
| CU–3 | TRANE | 4TTA4048 | 4 TONS | 34.2 | 44.1 | 100 | 7/8" | 3/8" | 1 | 208/240V, 3PH. | 30 | 18 | YES | |
| CU–4 | TRANE | 4TTA4060 | 5 TONS | 43.3 | 56.9 | 100 | 7/8" | 3/8" | 1 | 208/240V, 3PH. | 35 | 21 | YES | |
| CU–5 | TRANE | 4TTA4060 | 5 TONS | 43.3 | 56.9 | 100 | 7/8" | 3/8" | 1 | 208/240V, 3PH. | 35 | 21 | YES | |

NOTES LEGEND

1. PROVIDE TXV VALVE, SERVICE VALVES, AND REFRIGERANT ACCUMULATOR AT SUCTION LINE 2. PROVIDE COIL HAIL GUARDS

3. VERIFY EXACT REFRIGERANT LINE SIZES WITH MANUFACTURER

EXHAUST FAN SCHEDULE MOUNTING SERVICE CFM STATIC PRESSURE PLAN MODEL MARK MANUFACTURER ELECTRICAL NUMBER

| EF—1 | GREENHECK | SPB90 | CEILING | EXHAUST | 75 | 1/4" | 50 WATTS, 120V, 1 PH. | DIRECT | YES | BACKDRAFT | |
|-----------|-----------|--------------|---------|---------|-------|------|------------------------|--------|-----|-----------|--|
| EF—2 | GREENHECK | CUBE-300 | ROOF | EXHAUST | 9,600 | 1/4" | 2 HP, 208V, 1 PH. | BELT | YES | MOTORIZED | |
| EF—3 | GREENHECK | GB-081 | ROOF | EXHAUST | 600 | 1/4" | 1/6 HP, 120V, 1 PH. | BELT | YES | MOTORIZED | |
| EF—4 | GREENHECK | SE1-16-428-B | WALL | EXHAUST | 1,200 | 1/4" | 1/4 HP, 208V, 1 PH. | BELT | YES | MOTORIZED | |
| EF-5 | GREENHECK | SP-A290 | CEILING | EXHAUST | 250 | 1/4" | 81 WATTS, 120V, 1 PH. | DIRECT | YES | MOTORIZED | |
| EF—6 | GREENHECK | SP-B150 | CEILING | EXHAUST | 150 | 1/4" | 129 WATTS, 120V, 1 PH. | DIRECT | YES | BACKDRAFT | |
| NOTES | LEGEND | | | | | | 000000 | | | | |

DRIVE DISCONNECT DAMPER

(VERIFY)

- SEE PLAN FOR DUCT SIZE

O/A INTAKE DETAIL

NOT TO SCALE

<u>/2</u>

1. PROVIDE SPEED CONTROL

2. PROVIDE ROOF CURB AND BIRD SCREEN 3. PROVIDE WALL MOUNTED EXHAUST FAN, HOUSING, OSHA GUARD, SLEEVE, MOTORIZED DAMPER, AND DAMPER GUARD

4. PROVIDE PITCHED ROOF CAP MODEL RJ-6X9 WITH BUILT IN BIRDSCREEN AND BACKDRAFT DAMPER. 5. PROVIDE WITH WALL DISCHARGE HOODED WALL CAP MODEL WC-8 WITH BUILT IN BIRDSCREEN AND BACK DRAFT DAMPER.

| GRI | LLE, REG | GISTER & | DIFFUSE | R SCHE | DULE | | | |
|--|-----------------------------|--|---|--|--------------------|--|---|------------------------|
| PLAN MARK | MANUFACTURER | MODEL NUMBER | SERVICE | MOUNT TYPE | VOLUME DAMPER | MATERIAL | MATERIAL COLOR | N |
| A | PRICE | 520-D | SUPPLY | FLANGE | YES | STEEL | WHITE | |
| В | PRICE | SDGER | RETURN | ROUND DUCT | NO | STEEL | GALVANIZED | |
| С | PRICE | SDGE | SUPPLY | ROUND DUCT | YES | STEEL | GALVANIZED | |
| D | PRICE | 535 | RETURN/EXHAUST | FLANGE | NO | STEEL | WHITE | |
| NOTES L 1. PROV | EGEND IDE FIRE RADIATION | N DAMPER AT GYPB | OARD CEILING. | | | | | |
| | 0 | GAS UNIT | HEATER | SCHED | ULE | | | |
| | PL. MA | AN ARK MANUFACTU | RER N | MODEL UMBER | CAPACITY (BTUH) | ELECT | RICAL | NOT |
| | UH | I-1 TRANE | GHND-020 | AEG2-0000-DE7 | 200,000 | 120 V., 1 P | H, 20 AMP | 1,2, |
| | | OTES LEGEND | I | | I | | I | |
| | 1. 2. 3. | PROVIDE ADJUSTA PROVIDE #409 STA PROVIDE TWO STA | BLE THERMOSTAT INLESS STEEL HEA GE INTERMITTENT | WITH SUMMER/WI FEXCHANGERS PILOT IGNITION | NTER SWITCH AI | ND DISCONNEC | T SWITCH | |
| | 0. | N | ENT CAP | | | | | |
| CHAIN HANGE 8'-0" O.C. N | ERS MIN. | ROOFING | 54" MIN 4"g TYF WAL | ROOF FLASHING AND STORM COLLA VENT E B DOUBLE L FLUE | 2 | | | |
| APPROVED FLEXIBLE GAS GAS COCK APPROVED FLEXIBLE GAS CONNECTOR BY HEATER MANUFACTURER DADIANT LIEATED DE | | STANDING SEAM MET, INSULATIO FLASHING, AND BY GENERAL CON | AL ROOF IN, CANT, ROOFING ITRACTOR 24" MIN. | | | LOW SIL INTAKE PAINT T ANCHO SCREW M/C TO F ROOF CUR | HOUETTE VENTILATOR O MATCH ROOFING R WITH CADMIUM S AT 6" O.C. URNISH ALUMINUM ES NISTALATION | ; I, INTE VATION |
| | | ROOF DECK STR (REFER TO ARCHITED | | | | BE BY ME | TAL ROOF INSTALL | ER |

FLEXIBLE

CONNECTION -

| INFRARED GAS UNIT HEATER SCHEDULE |
|-----------------------------------|
|-----------------------------------|

| PLAN MARK | MANUFACTURER | MODEL NUMBER | CAPACITY (BTUH) | ELECTRICAL | NOTES |
|--------------|-----------------|-----------------|--------------------|----------------------|-------|
| IRH—1 | DETROIT RADIANT | DET3-50-200 | 200,000 | 120 V., 1 PH, 20 AMP | 1 |
| IRH-2 | DETROIT RADIANT | DET3-50-200 | 200,000 | 120 V., 1 PH, 20 AMP | 1 |
| NOTES | LEGEND | | | | |

1. PROVIDE ADJUSTABLE THERMOSTAT AND DISCONNECT SWITCH

MOTORIZED SHUTTER IN UPPER TRUSS AREA

__ EVAP_COOLING SYSTEM

| | TRIBU | | | | | 0.01 | | | - | | | | |
|---------|--------------|------------|----------|----------|------------|----------------|--------------|---------|-------------------|---------|--------|----------|---------|
| DIS | IRIBU | TION P | ANEL | BO | ARD | SCI | HED | ULI | | | | | |
| PANEL D | DESIGNATION | MAIN B | US AMPS: | 600 | VO | LTAGE: | 480/277 | | MOUNTING: | - | | | |
| Ν | IDP | MAIN BREAK | ER AMPS: | 600 | PHAS | E/WIRE: | 3Ø, 4W | | LOCATION: | | | | |
| CIRCUI | | | | 1010 | CIRC | UIT BRE | AKER | | | | | | |
| T NO. | CIRCUIT DE | SIGNATION | | KVA | POLE | FRAME | TRIP | SETS | # OF WIRES | SIZE | GROUND | MATERIAL | CONDUIT |
| 1 | TRANSFORME | R TFX-1 | | 166.7 | 3 | 400 | 350 | 1 | 3 | 500 MCM | #3 | COPPER | 3" |
| 2 | ELEVATOR | | | 17.5 | 3 | 100 | 50 | 1 | 3 | #6 | #10 | COPPER | 3/4" |
| 3 | DOAS-1 | | | 11.1 | 3 | 100 | 20 | 1 | 3 | #12 | #12 | COPPER | 1/2" |
| 4 | CRANE (VERIF | Y) | | 0.0 | 3 | 100 | 30 | 1 | 3 | #10 | #10 | COPPER | 1/2" |
| 5 | 100 | | | 0.0 | 3 | - | | | - | - | | | a-1 |
| 6 | | | | 0.0 | | | - | - | - | - | | - | - |
| 7 | 2 . | | | 0.0 | ~ | 10 . 00 | - | () | - | СШ. | 14 | | |
| 8 | | | | 0.0 | | | 3 - 3 | 1.00 | - | | | - | - |
| 9 | | | | 0.0 | | - | - | 1.00 | - | - | | - | - |
| 10 | | | | 0.0 | | | | | | - | | 1 | |
| | | | | | | | | | | 8 | | | |
| | | P | ANELBOA | RD SIZIN | IG LOA | D | | | | | | | |
| LOAD | DESCRIPTION | <u> </u> | CONNECTE | D LOAD | DEM | AND FAC | CTOR | COD | E MIN. (VA) | | | | |
| LIGHTS | 6 | | 12,60 | 0 | | 1.25 | | | 15,750 | | | | |
| RECEP | TACLES | | 45,72 | 0 | 10K | VA + 50% F | REST | | 27,860 | | | | |
| мотон | RS | | 33,75 | 9 | 1.25 x LAF | RGEST + SUN | I OF REST | | 38,124 | | | | |
| AIR CC | NDITIONING | | 31,62 | 4 | | 1.00 | | | 31,624 | | | | |
| SPACE | HEATING | | 10,00 | 0 | | 0.00 | | | 0 | | | | |
| CONTI | NUOUS | | 57,54 | 0 | | 1.25 | | | 71,925 | | | | |
| NON-C | ONTINUOUS | | 4,000 |) | | 1.00 | | | 4,000 | | | | |
| MISC. | LOADS 1 | | 0 | | | 1.00 | | | 0 | | | | |
| MISC. | LOADS 2 | | 0 | | | 1.00 | | | 0 | | | | |
| TOTAL | CONNECTED | LOAD (VA): | 195,2 | 43 | SIZI | NG LOAI |) (VA): | 1 | 189,283 | | | | |
| TAL CO | NNECTED LO | AD (AMPS): | 234. | 8 | SIZING | LOAD (A | MPS): | : 227.7 | | | | | |
| | | | | | | | | | | | | | |

1. CUTLER HAMMER POW-R-LINE 4B PANELBOARD OR EQUAL.

2. FIELD VERIFY BREAKER SIZES AND TYPE WITH BRIDGE CRANE MANUFACTURER PRIOR TO ORDERING

| SINGLE-SEC | ΤΙΟ | N P | ANE | ELB | OA | RI | D | SCI | HED | UL | Ε | | | |
|---------------------------|--------------|----------|-------------|-----------------|----------|----|----------|-----------------------|--------------|-----------------|-------------------|------------|-------------------|----------------|
| PANEL DESIGNATION | D1 | | | | | | | MAI | N LUG | AMPS: | 225 | | | |
| | | | | | | | # _ | MA | IN BRE | AKER: | M.L.O. | | | |
| | SURFA | UE . | | | | | col | | PHASE | /WIRE: | 208/120 3Ø 4W | | | |
| LOCATION | | PHASE | = | C | /B | | CIR | C | /B | | PHASE | - | | |
| DESCRIPTION | Α | В | С | TRIP | POLE | | | POLE | TRIP | A | В | С | DESCRI | PTION |
| RECEPT: AG SHOP 101 | 1080 | | | 20 | 1 | 1 | 2 | 1 | 20 | 1200 | | | LTC | G: AG SHOP 101 |
| RECEPT: AG SHOP 101 | | 1080 | | 20 | 1 | 3 | 4 | 1 | 20 | | 1400 | | LTO | G: AG SHOP 101 |
| RECEPT: AG SHOP 101 | 720 | | 1080 | 20 | 1 | 5 | 6 | 1 | 20 | 1500 | | 1500 | | IRH-1 |
| RECEPT: AG SHOP 101 | 720 | 720 | | 20 | 1 | 9 | 10 | 1 | 20 | 1500 | 360 | | | HOSE REEL |
| RECEPT: EXTERIOR WEST | | | 720 | 20 | 1 | 11 | 12 | 1 | 20 | | | 360 | | HOSE REEL |
| RECEPT: EXTERIOR EAST | 540 | 5. | | 20 | 1 | 13 | 14 | 1 | 20 | 360 | | | | HOSE REEL |
| RECEPT: MEZZ 207 | | 720 | | 20 | 1 | 15 | 16 | 1 | 20 | | 360 | | | HOSE REEL |
| RECEPT: GARAGE DOOR | 4500 | | 1000 | 20 | 1 | 17 | 18 | 1 | 20 | | | 360 | | HOSE REEL |
| EUH-1 | 1500 | 1500 | | 20 | 2 | 19 | 20 | 1 | 20 | 360 | 360 | | | HOSE REEL |
| HOSE REEL | | | 360 | 20 | 1 | 23 | 24 | 1 | 20 | | 500 | 360 | | HOSE REEL |
| HOSE REEL | 360 | | | 20 | 1 | 25 | 26 | 1 | 20 | 360 | | | | HOSE REEL |
| HOSE REEL | | 360 | | 20 | 1 | 27 | 28 | 1 | 20 | | 360 | | | HOSE REEL |
| HOSE REEL | | | 360 | 20 | 1 | 29 | 30 | 1 | 20 | | - | 360 | | HOSE REEL |
| SPARE | - | | | 20 | 1 | 31 | 32 | 1 | 20 | 360 | 260 | | | HOSE REEL |
| SPARE | | - | | 20 | 1 | 35 | 36 | 2 | 20 | | 500 | 1600 | | EF-2 |
| SPARE | | | | 20 | 1 | 37 | 38 | - | - | 1600 | | | | |
| | \leftarrow | \sim | | | T | 39 | 40 | 1 | 20 | | • | | | SPARE |
| 12 C | | | - | - | 1 | 41 | 42 | 1 | 20 | | | - 14 C | | SPARE |
| TOTALS | 4200 | 4380 | 3520 | | | | | | | 5740 | 3200 | 4540 | TOTALS | |
| P | | OARD | SIZING | | <u> </u> | | | | | 1 | | CON | | OADS |
| LOAD DESCRIPTION | CONN | ECTED | | DEMAN | D | (| | E MIN | (VA) | 1 | PH | ASE | VA | AMPS |
| LIGHTS | 2, | 600 | | 1.25 | | | | 3,250 | | 1 | | A | 9,940 | 82.8 |
| RECEPTACLES | 13, | 780 | 10KV | /A + 50% | REST | | | 11, <mark>89</mark> 0 | | | | B | 7,580 | 63.1 |
| MOTORS | | 0 | 5 x L A R G | EST + SU | M OF RE | 4 | | 0 | | | | C | 8,060 | 67.1 |
| AIR CONDITIONING | | 0 | - | 0.00 | | - | | 0 | ž | | TOT | ALS | 25,580 | 71.0 |
| | 0, | 000 | | 1.00 | | - | | 0,000 | | - | REMAR | KS. | | |
| NON-CONTINUOUS | 3, | 200 | | 1.00 | | + | | 3,200 | | | 1. CUTL | ER HAM | MER POW-R-LINE 1A | OR EQUAL. |
| MISC. LOADS 1 | | 0 | | 1.00 | | | | 0 | | | | | | |
| MISC. LOADS 2 | | 0 | | 1.00 | | | | 0 | | | | | | |
| | | 0.1 | S | IZING | LOAD: | | | 24,340 |) | | | | | |
| | | 012 | | | WI 0). | | | 00 | | | | | | |
| MOUNTING: LOCATION: | SURFAC | CE 01 | | | (D | | יואכטו ו | 1 | VOL PHASE | TAGE: /WIRE: | 208/120 3Ø, 4W | | 1 | |
| DESCRIPTION | A | B | С | TRIP | POLE | |) | POLE | | Α | B | C | DESCRI | PTION |
| RECEPT: HALLWAY 200 | 1260 | | | 20 | 1 | 1 | 2 | 1 | 20 | 1000 | | | | F-1 |
| RECEPT: STORAGE 202 | | 1260 | | 20 | 1 | 3 | 4 | 1 | 20 | | 1000 | | | F-2 |
| RECEPT: RESTROOMS | | | 540 | 20 | 1 | 5 | 6 | 1 | 20 | | | 1000 | | F-3 |
| RECEPT: IT 211 | 720 | 800 | | 20 | 1 | 7 | 8 | 3 | 35 | 1450 | 1450 | | | CU-1 |
| RECEPT: COMP RM 204 | | 800 | 1080 | 20 | 1 | 11 | 12 | - | - | | 1450 | 1450 | | - |
| RECEPT: COMP RM 204 | 1280 | | | 20 | 1 | 13 | 14 | 3 | 30 | 1250 | | | | CU-2 |
| RECEPT: KITCHEN 206 -EAST | | 540 | | 20 | 1 | 15 | 16 | - | • | | 1250 | | | |
| RECEPT: KITCHEN 206 -WEST | 4000 | | | - | 1 | 17 | 18 | - | - | 4050 | | 1250 | | - |
| RECEPT: REFRIGERATOR | 1260 | | | - 20 | 1 | 19 | 20 | 3 | - 30 | 1250 | 1250 | - | - | |
| RECEPT: REFRIGERATOR | | | | - | 1 | 23 | 24 | - | | | 1200 | 1250 | | |
| RANGE | 4160 | | | 50 | 2 | 25 | 26 | 1 | 20 | 1700 | | | LTG: | 2ND FLR EAST |
| | | 4160 | | - | | 27 | 28 | 1 | 20 | | 1200 | | LTG: | 2ND FLR WEST |
| RANGE | 4460 | | 4160 | 50 | 2 | 29 | 30 | 2 | 20 | 1500 | | 1500 | | EUH-1 |
| RECEPT: AG LAB 205 | 4100 | 1080 | | 20 | 1 | 33 | 34 | 1 | 15 | 1500 | 500 | - | - | EF-3 |
| RECEPT: AG LAB 205 | | | 1080 | 20 | 1 | 35 | 36 | 1 | 20 | | | 1000 | | RANGE HOOD |
| RECEPT: AG LAB 205 | 900 | | | 20 | 1 | 37 | 38 | 1 | 20 | 1000 | \sim | \sim | \sim | RANGE HOOD |
| RECEPT: AG LAB 205 | | 1080 | | 20 | 1 | 39 | 40 | 1 | 20 | | 720 | | FLR BO | K: KITCHEN 206 |
| RECEPT: DRY SYSTEM | 800 | | - | - 20 | 1 | 41 | 42 | 1 | 20 | 1080 | | 720 | FLR BO | DX: AG LAB 205 |
| SPARE | 000 | | | 20 | 1 | 43 | 44 | 1 | 20 | 1000 | <u>n</u> | | FLK BU | SPARE |
| SPARE | | | - | 20 | 1 | 47 | 48 | 1 | 20 | | | - | | SPARE |
| SPARE | • | | | 20 | 1 | 49 | 50 | 1 | 20 | - | | | | SPARE |
| SPARE | | • | | 20 | 1 | 51 | 52 | 1 | 20 | | - | | | SPARE |
| SPARE | | | • | 20 | 1 | 53 | 54 | 1 | 20 | | | - | | SPARE |
| • | • | - | - | • | 1 | 55 | 56 | 1 | • | • | | | | |
| | ь <u>.</u> | • | - | - | 1 | 59 | 58 60 | 1 | | | | - | | |
| TOTALS | 14540 | 8920 | 6860 | | , | 00 | 00 | , | I | 10230 | 7370 | 8170 | TOTALS | |
| | | | | | | | | | | | | | | |
| Р | ANELB | OARD | SIZING | LOAD | | | | | | | | CONI | NECTED PHASE | OADS |
| LOAD DESCRIPTION | CONN | ECTED | C | EMAN | D | C | OD | E MIN. | (VA) | | PH | ASE | VA | AMPS |
| RECEPTACIES | 2,9 | 200 | 1061 | 7.25 A + 50% | REST | | | 3,625 | | 1 | | ч. В | 24,770 | 206.3 |
| MOTORS | 3.0 | 000 | S x LA RG | EST + SU. | M OF RE | 4 | | 3,250 | | | | C | 15.030 | 125.2 |
| AIR CONDITIONING | 11, | 850 | | 1.00 | | | | 11,850 | | 1 | тот | ALS | 56,090 | 155.7 |
| SPACE HEATING | 3,0 | 000 | | 0.00 | | | | 0 | | | 110 | | | |
| CONTINUOUS | 17, | 140 | | 1.25 | | | | 21,425 | | 4 | REMARI | <u>KS:</u> | | |
| MUN-CONTINUOUS | |)) | | 1.00 | | - | | 0 | | { | 1. CUTL | EK HAMI | WER POW-R-LINE 1A | JK EQUAL. |
| MISC. LOADS 2 | | 0 | | 1.00 | | | | 0 | | 1 | | | | |
| | | | S | IZING I | LOAD: | | | 54,250 | | 1 | | | | |
| | | SI7 | | | MPS) | | | 151 | | 1 | | | | |

| 225 | | | |
|-------------------|----------|-----------------|---------------|
| 225 M L O | | | |
| M.L.O. | | | |
| 200/120 301 AW | | | |
| PHASE | - | | |
| B | C | DESCRIP | TION |
| | | | F-1 |
| 1000 | | 2 2 | F-2 |
| | 1000 | | F-3 |
| | | | CU-1 |
| 1450 | | | - |
| | 1450 | | - |
| | | | CU-2 |
| 1250 | | | |
| | 1250 | | |
| | | | CU-3 |
| 1250 | | | |
| | 1250 | | |
| | | LTG: 2 | ND FLR EAST |
| 1200 | | LTG: 2 | ND FLR WEST |
| | 1500 | | EUH-1 |
| | | | - |
| 500 | | | EF-3 |
| | 1000 | | RANGE HOOD |
| \sim | \frown | \sim | RANGE HOOD |
| 720 | | FLR BOX: | KITCHEN 206 |
| | 720 | FLR BOX | CAG LAB 205 |
| \sim | ha | FLR BOX | C: AG LAB 205 |
| - | | | SPARE |
| | | | SPARE |
| | | | SPARE |
| . . | - | | SPARE |
| | | | SPARE |
| | | | |
| | - | | - |
| 7370 | 8170 | TOTALS | |
| , ,, ,, , | onv | | |
| | CON | NECTED PHASE LO | DADS |
| PH | ASE | VA | AMPS |
| 1 | A | 24,770 | 206.3 |
| | В | 16,290 | 135.6 |
| 1 | С | 15,030 | 125.2 |
| | ALC | 56 000 | 155 7 |

| SINGLE-SEC | ΓΙΟ | N P | ANE | ELB | OAI | R |) | SCH | IED | UL | Ε | | |
|------------------------------|--------|------------|-------------|-----------|------------|-----|-----|--------|------------|--------|------------|-------|-----------------|
| PANEL DESIGNATION: | | P | | | | | | MAI | LUG | AMPS: | 600 | | |
| | | | | | | - F | # | MA | IN BRE | AKER: | 600 | | |
| MOUNTING: | SURFAC | CE | | | | | 5 | | VOL | TAGE: | 208/120 | | |
| LOCATION: | MECH 1 | 07 | | - | | Ì | ř | F | PHASE | /WIRE: | 3Ø, 4W | | 1 |
| DESCRIPTION | A | PHASE B | C | C TRIP | /B POLE | | J | POLE | /B TRIP | A | PHASE B | C | DESCRIP |
| RECEPT: CLRM 104 | 1080 | | 1 | 20 | 1 | 1 | 2 | 1 | 20 | 1400 | | | LTG: MECH, O |
| RECEPT: CLRM 104 | | 1260 | | 20 | 1 | 3 | 4 | 1 | 20 | | 1700 | | LTG: HALLWAY |
| RECEPT: CLRM 104 | | | 720 | 20 | 1 | 5 | 6 | 1 | 20 | | | 1300 | LTG: LAB & |
| RECEPT: OFFICE 103 | 900 | | | 20 | 1 | 7 | 8 | 1 | 20 | 900 | | | EXTERI |
| RECEPT: 108-111 | | 720 | | 20 | 1 | 9 | 10 | 2 | 50 | | 2400 | | AIR C |
| DRINKING FOUNTAIN | | | 800 | 20 | 1 | 11 | 12 | - | - | | | 2400 | 622004-0 |
| RECEPT: LAB 105 | 1260 | | | 20 | 1 | 13 | 14 | 2 | 15 | 700 | | | |
| RECEPT: LAB 105 REFRIGERATOR | | 1000 | 1 | 20 | 1 | 15 | 16 | | - | 1 | 700 | | |
| RECEPT: LAB 105 | c | | 720 | 20 | 1 | 17 | 18 | 1 | 20 | | | 1500 | |
| WH-1 | 800 | | 720 | 20 | 1 | 19 | 20 | 3 | 30 | 1450 | | 1000 | |
| RECEPT: MECH 107 1078 106 | | 1080 | | 20 | 1 | 21 | 20 | | | 1400 | 1450 | - | |
| E-4 | | 1000 | 1000 | 20 | 1 | 21 | 22 | | | | 1450 | 1450 | |
| F-4 E.5 | 1000 | | 1000 | 20 | 1 | 23 | 24 | 2 | 20 | 1450 | | 1450 | |
| | 1000 | 1000 | | 20 | 1 | 25 | 20 | 3 | 30 | 1450 | 1450 | | |
| SUMPPOMP | - | 1000 | 1 | 20 | 1 | 21 | 28 | - | - | - | 1450 | 4450 | |
| SPARE | - | | - | 20 | 1 | 29 | 30 | - | - | 0040 | | 1450 | |
| SPARE | - | | | 20 | 1 | 31 | 32 | 3 | 225 | 9940 | | | PAN |
| SPARE | | • | | 20 | 1 | 33 | 34 | • | - | 7. | 7580 | | |
| SPARE | | | - | 20 | 1 | 35 | 36 | • | - | | | 8060 | |
| SPARE | • | | | 20 | 1 | 37 | 38 | 3 | 200 | 24770 | - | | PAN |
| SPARE | | | | 20 | 1 | 39 | 40 | 1 | - | | 16290 | | |
| SPARE | | | - | 20 | 1 | 41 | 42 | - | - | | | 15030 | |
| 3 | - | | | 848 | 1 | 43 | 44 | 3 | 100 | 3900 | | | PAN |
| 3 - 9 | | • | | | 1 | 45 | 46 | | - | | 3900 | | |
| | | | | - | 1 | 47 | 48 | | - | | | 4700 | |
| 3. . | - | | | - | 1 | 49 | 50 | 3 | 225 | 12500 | | | |
| | | - | | - | 1 | 51 | 52 | - | - | | 12500 | | |
| | | | - | - | 1 | 53 | 54 | • | - | | | 12500 | |
| | - | | | - | 1 | 55 | 56 | 3 | 20 | - | | | |
| 5-4 | | - | | - | 1 | 57 | 58 | - | - | | - | | |
| 5 _ 8 | - | | - | 340 | 1 | 59 | 60 | - | - | | | - | |
| TOTALS | 5040 | 5060 | 3240 | | | | | | | 57010 | 47970 | 48390 | TOTALS |
| | | | | 1 | | | | | | | | | |
| P/ | ANELB | OARD | SIZING | , LOAD |) | r | | | | | | CON | NECTED PHASE LO |
| LOAD DESCRIPTION | CONN | ECTED | | DEMAN | D | C | COD | E MIN. | (VA) | | PH | ASE | VA |
| LIGHTS | 12, | 600 | | 1.25 | | | | 15,750 | | | | A | 62,050 |
| RECEPTACLES | 45, | 720 | 10K | /A + 50% | REST | | | 27,860 | | | | В | 53,030 |
| MOTORS | 16, | 300 | S x L A R G | EST+SU | M OF RE. | 4 | | 17,500 | | | | С | 51,630 |
| AIR CONDITIONING | 20, | 550 | | 1.00 | | | | 20,550 | | | TOT | ALS | 166,710 |
| SPACE HEATING | 10, | 000 | | 0.00 | | | | 0 | | 1 | | | |
| CONTINUOUS | 57. | 540 | | 1.25 | | 1 | | 71,925 | | 1 | REMAR | KS: | |

REMARKS: 1. CUTLER HAMMER POW-R-LINE 1A OR EQUAL.

| PANEL DESIGNATION | CL | E. | | | ÷ | | | MAIN | LUG | AMPS: | 125 | | | |
|--------------------|--------|-------|---------|---------|----------|----------|----|--------|----------|-------|---------|---------|---------------------|-----|
| TANLE DESIGNATION. | GH | | | | - | 1 | # | MA | N BRE | AKER: | M.L.O. | | | |
| MOUNTING: | SURFAC | E | | | | | 5 | | VOL | TAGE: | 208/120 | | | |
| LOCATION: | GREENH | IOUSE | | | | | | F | HASE | WIRE: | 3Ø, 4W | | | |
| DESCRIPTION | | PHASE | | С | /B | ā | 5 | C | B | | PHASE | - | DESCRI | רכ |
| DEGORITION | Α | B | С | TRIP | POLE | | | POLE | TRIP | Α | B | С | DEGOI | 8.8 |
| GAS UNIT HEATER | 500 | | | 15 | 1 | 1 | 2 | 1 | 20 | 600 | | | LTG: | G |
| GAS UNIT HEATER | | 500 | | 15 | 1 | 3 | 4 | 1 | 20 | | 1200 | | | G |
| FAN | | | 1000 | 20 | 1 | 5 | 6 | 1 | 20 | | | 800 | RECE | P |
| FAN | 1000 | | | 20 | 1 | 7 | 8 | 1 | 20 | 800 | | | RECER | T |
| FAN | | 900 | | 20 | 1 | 9 | 10 | 1 | 20 | | 800 | | RECEPT: | G |
| FAN | | | 1600 | 20 | 1 | 11 | 12 | 1 | 20 | | | 800 | RECEPT: | G |
| COOLING SYSTEM | 500 | | | 15 | 1 | 13 | 14 | 1 | 20 | - | | | | _ |
| VENT | | 500 | | 15 | 1 | 15 | 16 | 1 | 20 | | - | | | _ |
| VENT | | | 500 | 15 | 1 | 17 | 18 | 1 | 20 | 70. | | • | | _ |
| SHADE | 500 | | | 15 | 1 | 19 | 20 | 1 | 20 | - | | | | _ |
| SPARE | | - | | 20 | 1 | 21 | 22 | 1 | 20 | | - | | | _ |
| SPARE | | | - | 20 | 1 | 23 | 24 | 1 | 20 | | | - | | _ |
| SPARE | - | | | 20 | 1 | 25 | 26 | 1 | 20 | - | | | | _ |
| SPARE | | - | | 20 | 1 | 27 | 28 | 1 | 20 | | - | | | _ |
| SPARE | | | - | 20 | 1 | 29 | 30 | 1 | 20 | | | - | | _ |
| TOTALS | 2500 | 1900 | 3100 | | , | | | | | 1400 | 2000 | 1600 | TOTALS | |
| | | | | | | | | | | 8 | r | 0011 | | - |
| <u> </u> | ANELB | OARD | SIZING | LOAL |) | | | - | () ()) | | | CON | NECTED PHASE L | .C |
| LOAD DESCRIPTION | CONN | ECTED | L | DEMAN | D | C | OD | E MIN. | (VA) | | PH | ASE | VA | + |
| LIGHTS | 1,8 | 00 | | 1.25 | | | | 2,250 | | | | A | 3,900 | + |
| RECEPTACLES | 3,2 | 200 | 10KV | A + 50% | RESI | <u> </u> | | 3,200 | | | | B | 3,900 | + |
| MOTORS | 6,5 | 00 | , XLAND | 237730 | M OF HE: | | | 6,900 | | | | | 4,700 | + |
| AIR CONDITIONING | | , | | 0.00 | | _ | | 0 | | | 101 | ALS | 12,500 | |
| SPACE HEATING | 1,0 | 000 | | 1.00 | | | | 1,000 | | | | | | |
| CONTINUOUS | | 0 | | 1.25 | | | | 0 | | | REMARI | KS: | | |
| NON-CONTINUOUS | | 0 | | 1.00 | | | | 0 | | | 1. CUTL | ER HAMI | MER POW-R-LINE 1A C | R |
| MISC. LOADS 1 | | 0 | | 1.00 | | | | 0 | | | | | | |
| MISC. LOADS 2 | |) | | 1.00 | | | | 0 | | | | | | |
| | | | S | IZING | LOAD: | | | 13,350 | - | | | | | |
| | | SIZ | ING LO | DAD (A | MPS): | | | 37 | | | | | | |

| TRA | NSFORM | ER SO | CHEDI | JLE | | | | | | |
|-------|---------------|-------|-----------|--------------|-------|-------|-------|---------|-------|-------|
| PLAN | MANUEACTURER | MODEL | FACTORED | TRANSFORMER | I | RIMAR | (| SE | CONDA | RY |
| MARK | MANUFACIURER | MODEL | LOAD (VA) | RATING (KVA) | VOLTS | PHASE | WIRES | VOLTS | PHASE | WIRES |
| TFX-1 | CUTLER HAMMER | DT-3 | 157,585 | 225.0 | 480 | 3 | 3 | 208/120 | 3 | 4 |

2. SUSPEND TRANSFORMER FROM STRUCTURE.

NON-CONTINUOUS

MISC. LOADS 1

MISC. LOADS 2

4,000

0

0

1.00

1.00

1.00

SIZING LOAD (AMPS):

SIZING LOAD:

4,000

0

0

157,585

437

| | SECURITY ALA | ARM LEC | GEND |
|--|--|---------|------------------------|
| F MANUAL PULL STATIC | N . | ACP | ACCESS CONTROL PANEL |
| D CEILING SMOKE DETE | TCTOR | CARD | CARD READER |
| D DUCT SMOKE DETECT | TOR | REX | REQUEST TO EXIT * |
| STROBE LIGHT | | MS | MAGENTIC SWITCH * (DOC |
| | | LRP | LATCH RETRACTION PUSH |
| COMBINATION HORN/ | STROBE | LRT | LATCH RETRACTION PUSH |
| B FIRE ALARM BELL | | МО | MORTISE LOCK (24V DC) |
| FACP FIRE ALARM CONTROL | L PANEL | PS | POWER SUPPLY (24V DC, |
| J JUNCTION BOX | | SA | SECURITY ALARM PANEL |
| D _{RS} JUNCTION BOX FOR ABOVE CEILING. WIF | READER W/STRIKE. 3/4" C TO RING AND CONNECTION BY CONTRACTOR | КР | SECURITY ALARM KEY PAI |
| JUNCTION BOX FOR ABOVE CEILING. WIF | READER W/INT. STRIKE. 3/4" C TO RING AND CONNECTION BY CONTRACTOR | WR | WIRELESS RECEIVER *** |
| JUNCTION BOX FOR WIRING AND CONNE | STRIKE. 3/4" C TO ABOVE CEILING. CCTION BY CONTRACTOR | RB | RELEASE BUTTON |
| DINCTION BOX FOR ABOVE CEILING. WI | DOOR OPEN INDICATOR. 3/4" C TO RING AND CONNECTION BY CONTRACTOR | ML | MAG LOCK * |
| JUNCTION BOX FOR ABOVE CEILING. WI | SECURITY CAMERA. 3/4" C TO RING AND CONNECTION BY CONTRACTOR | | SECURITY ALARM HORN * |
| PG POLYCARBONATE GUA DC DOME CAMERA – LIC | RD – LIGITURE PROOF SITURE PROOF | DP | DOOR POSITION SWITCH |
| K KEYED FIRE ALARM F | PULL STATION | | |

NOTES LEGEND

* - INDICATES PROVIDED BY DOOR HARDWARE SUPPLIER. REFER TO DOOR HARDWARE SPECIFICATIONS FOR FURTHER WIRING/POWER REQUIREMENTS.

** - INDICATES PROVIDED BY SECURITY ALARM SUPPLIER

ELECTRICAL CONTRACTOR TO PROVIDE 2X4 BACK BOX, CONDUIT AND CABLE AS INDICATED. *** - INDICATED PROVIDED BY SECURITY ALARM SUPPLIER. ELECTRICAL CONTRACTOR TO PROVIDE 4X4 BACK BOX, CONDUIT AND CABLE AS INDICATED

RETRACTABLE RECEPTACLE REEL DETAIL NO SCALE

| LIG | IT FIXTUR | E SCHEDULE | | | | | |
|--------------|--------------|--|----------------------|--------|-------------------|----------|---|
| PLAN MARK | MANUFACTURER | MODEL NUMBER | MOUNTING | FINISH | WATTS/LUMENS | CRI/CCT | N |
| A | WILLIAMS | AX2UD-4-L16-840U-L33-840D-S-DIM-UNV | PENDANT | WHITE | 60W/4900 LUMENS | 80/4000K | |
| В | WILLIAMS | 96-4-L62-840-HIAFR-WET-DIM-UNV | SURFACE | WHITE | 48W/6200 LUMENS | 80/4000K | |
| С | WILLIAMS | 75L-4-L65/840-A12125-WG75/VBY2-DIM-UNV | SURFACE | WHITE | 67W/6500 LUMENS | 80/4000K | |
| C1 | WILLIAMS | 76-4-L53/840-WG76/VBY2-DIM-UNV | SURFACE | WHITE | 36W/5300 LUMENS | 80/4000K | |
| D | WILLIAMS | AX2W-U2-L16/840-S-DIM-UNV | SURFACE | WHITE | 36W/3200 LUMENS | 80/4000K | |
| E | WILLIAMS | 6DR-TL-L20/840-DIM-UNV-LM-OF-CS-N | RECESSED | WHITE | 20W/1800 LUMENS | 80/4000K | |
| F | WILLIAMS | GL-4-L150/840-WGC11-DRC-UNV | SURFACE | WHITE | 121W/15700 LUMENS | 80/4000K | |
| G | COOPER | XTOR3B | SURFACE | BRONZE | 26W LED | 80/4000K | |
| G1 | COOPER | XTOR6B | SURFACE | BRONZE | 58W LED | 80/4000K | |
| Н | WAC LIGHTING | DS-CD0517-N40-BZ | SURFACE | BRONZE | 17W LED | 80/4000K | |
| J | BEGA | 66-051-К4 | SURFACE | BRONZE | 10W/800 LUMENS | 80/4000K | |
| к | WILLIAMS | 75–2–L20/840–WG75/VBY2–DIM–UNV | SURFACE | WHITE | 15W/2000 LUMENS | 80/4000K | |
| L | WILLIAMS | 96-8-L80/840-PCFR-WET/2-DIM-UNV | SURFACE | WHITE | 61W/8000 LUMENS | 80/4000K | 1 |
| ЕМ | DUAL LITE | LZ15–03L | SURFACE | WHITE | 15W MAX | | |
| x | DUAL LITE | LXURWE | SURFACE WALL/CEILING | WHITE | LED | | |
| X1 | DUAL LITE | HCXURW-03L-RC12 | SURFACE WALL/CEILING | WHITE | LED/LED | 2 | |
| X2 | DUAL LITE | HCXURW-03L | SURFACE WALL/CEILING | WHITE | LED/LED | 2 | |

1 - PROVIDE DIMMABLE DRIVER FOR 0-10V DOWN TO 10% 2 - PROVIDE EMERGENCY BATTERY (MINIMUM OF 1350 LUMENS FROM ONE LAMP FOR 90 MINUTES FOR 32WT8 LIGHTS)

3 - PROVIDE WET LOCATION RATED FIXTURE 4 - PROVIDE COLD LOCATION RATED BALLAST

NOTES LEGEND

5 - VERIFY MOUNTING HEIGHT WITH ARCHITECT.

6 - PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION. 7 - PROVIDE WITH OUTDOOR REMOTE LIGHTING HEAD MODEL #PGR-*. STANDARD COLOR SELECTED BY ARCHITECT.

| ELI | ELECTRIC UNIT HEATER SCHEDULE | | | | | | | | | | | |
|--------------|-------------------------------|-----------------|---------------------|-------------------|--|--|--|--|--|--|--|--|
| PLAN MARK | MANUFACTURER | MODEL NUMBER | CAPACITY (WATTS) | ELECTRICAL | | | | | | | | |
| EUH—1 | BERKO | FRC-4024 | 3000 WATTS | 208V., 1ø, 20 AMP | | | | | | | | |
| NOTES | | | | | | | | | | | | |

1. PROVIDE RECESSED MOUNTED HEATER WITH ADJUSTABLE THERMOSTAT AND DISCONNECT

INTERCOMM / CLOCK SYTEM ONE-LINE DIAGRAM NOT TO SCALE

