ADDENDUM NO. 2

The Architect/ Engineer issues this addendum, applicable to the above named project, to all known Contractors before receipt of proposal.

This addendum includes Item Number 2-1 thru 2-29. This addendum item shall be fully incorporated into the Bidding/Contract Documents and have the same force and effect as though originally included.

The Bidder shall acknowledge receipt of this Addendum No. 2 on the Bid Proposal Form in the place provided.

ARCHITECTURAL

Specifications

Item 2-1: Section 05 51 11 – Alternating Tread Devices

Add this section in its entirety.

Item 2-2: Section 08 80 00 – Glazing

- Refer to section 3.7. A – Glass Type “F”. Change “heat strengthened” to “annealed”. Delete requirement for Safety Glazing per section 3.7 A.2.
- Refer to Section 3.7 Monolithic Glass Schedule. Add the following:

  B. Glass Type “T”: Clear fully tempered float glass.

  1. Minimum Thickness: 6 mm.

  2. Safety glazing required.

- Refer to Section 3.8 Laminated Glass Schedule. Delete section 3.8 in its entirety
- Refer to section 3.9 A Glass Type “CIG”. Change “heat strengthened” to “annealed” per section 3.9 A, 4 and 6.

Item 2-3: Section 09 51 13 – Acoustical Panel Ceilings

- Refer to section 2.1, A, 1, subject to compliance with the requirements of this section, add CertainTeed Symphony F – 1342F-IOF-1 as an acceptable product.
- Refer to section 2.1, A, 2, subject to compliance with the requirements of this section, add CertainTeed Cashmere High NRC – CM-450HNRC as an acceptable product.
- Refer to section 2.2, A, subject to compliance with the requirements of this section, add Chicago Metallic 4000 series as an acceptable product.
- Refer to section 2.3, A, subject to compliance with the requirements of this section, add Sound Concepts Euromat Baffles as an acceptable manufacturer / product. Other acoustical wall panel manufacturer products meeting the requirements are acceptable.
- Refer to section 2.3, B, subject to compliance with the requirements of this section, add Chicago Metallic 1200 series as an acceptable product.

Item 2-4: Section 12 24 13 – Roller Window Shades

Add this section in its entirety.

Drawings

Item 2-5: Sheet A0.00 – Wall Type Schedule & Details

Add the following wall type to Metal Stud Partition: Wall Type H8 – 6" STEEL STUDS @ 16" O.C. w/ (1) LAYER – 5/8" TYPE 'X' GPDW EACH SIDE, PT. PER ROOM FINISH SCHEDULE. ADD 1 LAYER STEEL LINER PANEL UP TO 7'-0", FABRICATION SIDE OF WALL. PROVIDE 6" SOUND BATT. INSULATION IN CAVITY. EXTEND ENTIRE ASSEMBLY FROM FLOOR TO PEMB STRUCTURE ABOVE.

Item 2-6: Sheet A1.03 – First Floor Plan – Area B

Add the following wall type note to wall located along grid line X, between grid lines 9 and 18: "Metal Stud Partition Wall Type H8 – 6" STEEL STUDS @ 16" O.C. w/ (1) LAYER – 5/8" TYPE 'X' GPDW EACH SIDE, PT. PER ROOM FINISH SCHEDULE. ADD 1 LAYER STEEL LINER PANEL UP TO 7'-0", FABRICATION SIDE OF WALL. PROVIDE 6" SOUND BATT. INSULATION IN CAVITY. EXTEND ENTIRE ASSEMBLY FROM FLOOR TO PEMB STRUCTURE ABOVE.

Item 2-7: Sheet A2.10 – Exterior Elevations

- Refer to the attached Supplemental Drawings SDA-01 and SDA-02 for location of the roof access alternating tread stair, and platform located along grid line X, between grid lines 11 and 12 and the high roof access ladder. Coordinate all work with the pre-engineered metal building.
- Add door 100.6 for access to the roof. (3'-0" width x 7'-0" height, door = HMD-1, paint, frame = HMF-101, paint, hardware set = HW-1)

Item 2-8: Sheet A6.40 – Door Schedule, Door Types, Frame Types

Refer to Door Schedule, add door 100.6 for access to the roof. (3'-0" width x 7'-0" height, door = HMD-1, paint, frame = HMF-101, paint, hardware set = HW-1)

Item 2-9: Sheet F1.01 – First Floor Finish Plan – Area A

Refer to Room Finish Schedule, Finish Notes, Note 2. As a clarification, all faces of CMU walls in Area A to receive epoxy paint (PT-1 unless noted otherwise). Including faces directed outward towards manufacturing, end faces of CMU block, and faces directed inward towards Canteen and Lockers.

Item 2-10: Sheet F1.02 – First Floor Finish Plan – Area B

Refer to the attached reissued sheet F1.02 for roller window shade locations.

STRUCTURAL

Drawings

Item 2-11: Sheet S1.01 – Footing & Foundation Plan

Reference Grid Intersections X-18 through X-9, Add top of footing elevation tag = 98'-4".

Item 2-12: Sheet S1.02 – Canteen & Vestibule Structural Plans

Reference Canteen North Plans 1 and 2. Revise the concrete masonry wall which is approximately 6 feet south of Grid 14 from non-load bearing to load bearing. Revise footings and hollowcore spans as shown on attached Supplemental Drawings SDS-002 and SDS-003.

Item 2-13: Sheet S1.03 – Slab Joint Layout Plan

- Reference Detail 2, replace with the detail shown on the attached Supplemental Drawing SDS-007.
- Reference Detail 3, revise dimension of load plate dowel from 2 1/2" x 2" x 12" to: 2 1/2" x **1/2"** x 12". Add the following note with a leader line pointing to the joint centered above the dowel basket: "SEALED SAW CUT JOINT, SEE SPECIFICATIONS".

MECHANICAL

Specifications

Item 2-14: Specification 23 05 00, Basic Mechanical Requirements.

These mechanical items have been reviewed in accordance with paragraph 1.10, and are approved as equivalent pending the requirements of 230500.1.10.

Variable Frequency Drives:	Square D, Emerson
Electric Unit Heaters:	Redd-I, Raywall
Cabinet Unit Heaters:	Sigma
Air Outlets and Inlets:	United Enertech, Price
CO and NO2 Detection System:	Armstrong Monitoring

Item 2-15: Section 22 61 13 – Compressed Air and Welding Gas Systems

Add this section in its entirety.

Drawings

Item 2-16: Sheet M0.00 – Mechanical Notes, Symbols & Abbreviations

Add General Mechanical Note 2.2 to read
"DOMESTIC WATER AND FIRE MAINS SHALL BE ROUTED AND TERMINATED AT A BLIND FLANGE ABOVE THE FLOOR WITHIN THE WATER SERVICE ENTRANCE ROOM BY THE UTILITY CONTRACTOR"

Item 2-17: Sheet M3.01 – Fire Protection Plan

Sheet replaced in its entirety. Refer to modified design areas, zone requirements and updated Fire Sprinkler Requirements table.

Item 2-18: Sheet M3.02 – Fire Protection Schematic

Sheet replaced in its entirety. Reduce number of separate sprinkler zones from 5 to 4 zones.

Item 2-19: Sheet M7.02 – Mechanical Schedules

Refer to PACKAGED ROOFTOP UNITS schedule. Add under Manufacturer and Model "Aaon or approved equivalent".

ELECTRICAL

Item 2-20: Specification 26 24 13, Switchboards

- Delete paragraph 2.5.A.2.
- Delete paragraph 3.1.D. A coordination study is not required.

Item 2-21: Specification 265100, Lighting Fixtures

The following lighting fixtures have been reviewed in accordance with paragraph 2, and are included in the Contract Documents for bidding purposes. All fixtures, lamps, and ballasts are required to meet the specification requirements regardless of prior approval. Prior approval does not waive any requirements indicated on the drawings or the specifications. Some fluorescent fixtures require dimming or multiple levels of switching. The required number and types of ballasts shall be provided to meet the switching requirements shown on the drawings.

Type	Manufacturer and Catalog Number
A	Columbia LHV4-854-GWU-4EPU
A	Metalux HBL-854T5-M-UNV-EHT2-U
B	Columbia SER24-232G-CF-EPU
B	Metalux 2ALNG-332-UNV-L8835-EB81-U
C	Corelite R3-WL-2T8-UNV-14-W6
D	Metalux 2GC8-232A125-UNV-EB81-U
G	Portfolio LD6A-15-D010TE-ERW6A15-8-35-6LW1-H-HB26
H	Metalux FC8-2-32-A125-UNV-EB81-U
K	Metalux DMF-2-32-UNV-EB81-U AYC-CHAIN/SETU
L	Portfolio LD6A-10-D010TE-ERM6A10-8-3-6LM0-H
M	Columbia XEM4-232-RA-EPU
M	Metalux VT3-2-32-DR-UNV-EB81-WL-U
N	Metalux BAU-1-32-UNV-EB81-WH-U
P	Halo H750ICAT ML5612835 692H
Q	Emergi-Lite LUX-AC-P
R	McGraw-Ed IMT-400-MP-277-3S-BZ-L-P 400W MP 277V TY3 IMP MED TRAP BZ LMP PE

T	NeoRay S81R-2T8-ETG-**8-**2EB-SI-S22 - Fixture must be 8'-0" long continuous
EXIT	Sure-Lites LPX6
EXIT(B)	Sure-Lites LPX7SD
U	NeoRay S81R-2T8-ETG-**4**-UEB-SI-S22 - Fixture must be 4'-0" long continuous
V	McGraw-Edison CIM-AM-400-MP-MT-3S-AP-L Pole: RSA-6303 (UNITED LTG. STANDARD, MCGRAWED)
W	McGraw-Edison CIM-AM-400-MP-MT-3S-AP-L-HS Pole: RSA-6303 (UNITED LTG. STANDARD,MCGRAW-ED)
X	Metalux 2-ALN-G-2-32-UNV-L8835-EB81-U
Z	Portfolio LD6A-15-D010TE-ERM6A10-8-35-6LM0-H
AA	McGraw-Edison CIM-AM-400-MP-MT-5S-AP-L RSA-6303 (UNITED LTG. STANDARD, MCGRAWED)
BB	Metalux 2-ALN-F-2-32-UNV-L8835-EB81-U

Item 2-22: Specification 28 31 00, Fire Alarm System

- See section 1.6 (B). Add Gamewell-FCI to the approved equivalent systems list, provided all parts of specification of met.
- From section 1.1.A, delete "…..,with two way firefighters communications and firemen's HVAC override control panel capabilities.
- There is not an elevator within this project. Remove all verbiage associated with elevator controls and devices. (1.1.E.5, 1.1.B.d & e, 2.2.E.5, 2.4.B, 2.4.C)
- Note: There are NO fire/smoke dampers within this project.

Drawings

Item 2-23: Sheet E2.01 – Power & Auxiliary Systems Plan – Area 'A'

Provide a duct smoke detector for MAU-1 and connect to fire alarm control panel.

Item 2-24: Sheet E2.02 – Power & Auxiliary Systems Plan – Area 'B'

Provide a 2-gang telephone/data outlet box adjacent the Fastenal duplex receptacle (circuit L2-12). Plan note #6 shall be applied to this box. See the telecommunications note in this addendum for additional information.

Item 2-25: Sheet E2.03 – Power & Auxiliary Systems Plan – Area 'C'

Provide a 2-gang telephone/data outlet box adjacent the Fastenal duplex receptacle (circuit L2B-15). Plan note #6 shall be applied to this box. See the telecommunications note in this addendum for additional information.

Item 2-26: Sheet E2.06 – Power & Auxiliary Systems Plan – Area 'F'

Sheet replaced in its entirety. Shows/clarify bus duct lengths.

Provide a duct smoke detector for MAU-2 and connect to fire alarm control panel.

Item 2-27: Sheet E2.07 – Power & Auxiliary Systems Plan – Office Area

See RTU-1. Provide a duct smoke detector the return duct and a duct smoke detector for the supply duct of RTU-1 and connect to the fire alarm control panel.

Item 2-28: Sheet E4.01 – Electrical Schedules

Refer to Lighting Fixture Schedule.
Fixture Type 'A' shall be chain hung at +26'-0" AFF. Fixture height to be coordinated with overhead cranes. Provide fixture with ballast disconnect plug.

Exit & Exit (B) shall be mounted at +7'-6" AFF to bottom of fixture.

TELECOMMUNICATIONS

Item 2-29: Sheet T1.01 – Office/North & South Personnel Area's/Enlarged Server Room/Telecommunications Plan

- Refer to the North Plant Personnel Area Plan: A new telecom outlet box is being installed adjacent to the Fastenal duplex receptacle. See the information above that references this area for the location. A new plan note number #5 shall be applied to this outlet and shall read as follows: "ROUTE ONE BLUE CATEGORY 6 CABLE TO A WORKROOM FACEPLATE. SEE THE WORKROOM FACEPLATE DETAIL FOR ADDITIONAL INFORMATION."
- Refer to the South Plant Personnel Area Plan: A new telecom outlet box is being installed adjacent to the Fastenal duplex receptacle. See the information above that references this area for the location. A new plan note number #5 shall be applied to this outlet and shall read as follows: "ROUTE ONE BLUE CATEGORY 6 CABLE TO A WORKROOM FACEPLATE. SEE THE WORKROOM FACEPLATE DETAIL FOR ADDITIONAL INFORMATION."

END OF ADDENDUM NO. 2

SECTION 05 51 11 – ALTERNATING TREAD DEVICES

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:
   1. Alternating tread devices.
   2. Platform landings

1.3 COORDINATION

A. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.4 ACTION SUBMITTALS

A. Product Data: For alternating tread devices and platform landings

B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:

   1. Alternating tread devices.
   2. Platform landings
   3. Support Columns

1.5 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Structural Performance of Alternating Tread Devices: Alternating tread devices shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated.

1. Uniform Load: 100 lbf/sq. ft..
2. Concentrated Load: 300 lbf applied on an area of 4 sq. in..
3. Uniform and concentrated loads need not be assumed to act concurrently.
4. Alternating Tread Device Framing: Capable of withstanding stresses resulting from railing loads in addition to loads specified above.

B. Structural Performance of Platforms: Platforms shall withstand the effect of grafvity loads and the following loads and stresses within limits and under conditions indicated.

1. Concentrated Load: 300 lbf applied on an area of 4 sq. in.
2. Framing: Capable of withstanding stresses resulting from railing loads in addition to loads specified above.

C. Source Limitations for Alternating Tread Devices and Platform Landings and Support Columns: Obtain alternating tread devices and platform landings and required supports from single manufacturer to provide a complete system.

2.2 FASTENERS

A. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.

B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.

C. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 325, Type 3; with hex nuts, ASTM A 563, Grade C3; and, where indicated, flat washers.

D. Anchor Bolts: ASTM F 1554, Grade 36, of dimensions indicated; with nuts, ASTM A 563; and, where indicated, flat washers.

1. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.

E. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.

2.3 ALTERNATING TREAD DEVICES

A. Alternating Tread Devices: Fabricate alternating tread devices of open-type construction with channel or plate stringers and pipe and tube railings unless otherwise indicated. Provide brackets and fittings for installation.
   1. Basis-of-Design Product: Subject to compliance with requirements, provide **Lapeyre Stair Inc.** or comparable product by one of the following:
      a. Schmidt Structural Products, Inc.
      b. Or equal if and as specifically approved by Architect by Addendum during the bidding period.

B. Height: 20 feet

C. Angle: 56 degrees

D. Tread depth shall be not less than 5 inches exclusive of nosing or less than 8-1/2 inches including the nosing, tread width shall be not less than 7 inches, and riser height shall be not more than 9-1/2 inches.

E. Fabrication:
   1. Treads: 13 Gauge AISI 1010/15 HRPO per ASTM A569 / A1011 grade 36 (or higher).
   2. Landing & Foot Stampings: 11 Gauge AISI 1010/15 per ASTM A569 / A1011 grade 36 (or higher).
   3. Top Landing Support Clips: L2 x 2 x ¼" x 4" lg. with 5/8" Φ round holes and 5/8" x 1" slot holes, ASTM A569/A1011 grade 36 (or higher)
   4. Stringers:
      a. 3" x 1 3/4" x 11 Gauge U section; AISI 1010/15 per ASTM A569/A1011 grade 36 or higher for 56 degree stairs over 10 vertical feet and for 68 degree stairs over 12 vertical feet.
   5. Handrails: 1 1/2" OD x 0.095" AISI 1010/15 CS per ASTM A569/A1011 cold drawn, fully annealed tube per ASTM A513 grade 1008 or higher As-welded tubing or ASTM A500 Grade B.

F. Finish:
   1. Polyester TGIC Powder Coat
   2. Color: Safety Yellow

2.4 CROSSOVER AND LANDING PLATFORMS

A. Landing Platforms: Fabricate crossover or landing platforms to conform with dimensions, performance, and construction.
   1. Basis-of-Design Product: Subject to compliance with requirements, provide **Lapeyre Stair Inc**. or comparable product by one of the following:
      a. Schmidt Structural Products, Inc.
      b. Or equal if and as specifically approved by Architect by Addendum during the bidding period.

B. Platform Size and Configuration: As indicated on Drawings

C. Fabrication:
   1. Platform: AISI 1010/15 CS, 3/16" diamond safety plate
   2. Handrails: 1-1/2" OD x 0.095" AISI 1010/15 CS per ASTM A1011 cold drawn, fully annealed tube per A500 Grade B or A513 grade 1008 or higher as-welded tubing.
   3. Balusters: 1-1/2" OD x 0.095" AISI 1010/15 CS per ASTM A1011 cold drawn, fully annealed tube per A500 Grade B or A513 grade 1008 or higher as-welded tubing.

D. Finish:
   1. Polyester TGIC Powder Coat
   2. Color: Safety Yellow

2.5 FINISHES, GENERAL

A. Finish metal fabrications after assembly.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.

3.2 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

   1. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.

END OF SECTION 05 51 11

SECTION 12 24 13 – ROLLER WINDOW SHADES

1. GENERAL

1.1 RELATED DOCUMENTS

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

1. See Section 01 23 00 “Alternates”.

1.2 SUMMARY

A. This Section includes:

1. Manual clutch window shades.
2. Accessories and attaching hardware.

1.3 SUBMITTALS

A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.

B. Product data for each type of window shade specified. Include printed data on physical characteristics.

C. Samples for initial selection in the form of manufacturer’s color charts showing the full range of colors, textures, and patterns available for each type of window shade indicated.

D. Maintenance data for window shades to include in the operation and maintenance manual specified in Division 1. Include the following:

1. Methods for maintaining window shades and finishes.
2. Precautions for cleaning materials and methods that could be detrimental to finishes and performance.

1.4 QUALITY ASSURANCE

A. Fire-Test-Response Characteristics: Provide horizontal louver blinds identical to those tested for the following fire-test-response characteristics as determined by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

1. Test Method: NFPA 701.
2. Rating: Pass.

B. Single-Source Responsibility: Obtain each type of window shade from one source and by a single manufacturer.

C. Mock-ups: Prior to installing window shades, construct one full size mock-up for each shade type and mounting type specified for Owner's and Architect's review. Build mock-ups to comply with the following requirements, using materials indicated for final unit of Work.

1. Notify Architect one week in advance of the dates and times when mock-ups will be constructed.
2. Obtain Architect's acceptance of mock-ups before start of final unit of Work.
3. Retain and maintain mock-ups during construction in an undisturbed condition as a standard for judging the completed Work.

a. Accepted mock-ups in an undisturbed condition at the time of Substantial Completion may become part of the completed Work.

1.5 PROJECT CONDITIONS

A. Field Measurements: Check actual window shade dimensions by accurate field measurements before fabrication, and show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

B. Space Enclosure and Environmental Limitations: Do not install window shades until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings is complete, and ambient temperature and humidity conditions are and will be continuously maintained at values near those indicated for final occupancy.

C. Install all shades no closer than 2" from glass surfaces. Provide minimum of 1/2" air space between either ceiling and top of shade or between side of shade and wall jambs.

D. Warranty:

1. Provide manufacturer's standard twenty-five (25) year written warranty against defects in manual shade materials and workmanship, beginning at date of substantial completion. The control chain is considered a normal maintenance item and is not under warranty. Also, electrical components and motors are warranted for a period of five years only.

2. PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Manual Clutch Shades:

a. MechoShade, Manual Clutch System, 42-03 35th Street, Long Island City, NY 11101 (877) 774-2572. Sales Rep: Gary Hart, (816) 471-2559.

1) Distributor (MechoShade): Craftsman Window Coverings, Inc., 4102 South 24th Street, Omaha, NE 68107, (402) 733-8772.
2) Distributor (MechoShade): Lifestyle Drapery Service, Inc., 4735 NW Radial Highway, Omaha, NE 68104, (800) 805-6549 or (402) 556-1950. Sales Rep: Andrea Anderson, (402) 706-5826, andrea@lifestyledrapery.com.

b. Draper Inc., FlexShade XD Manual Clutch System, 411 S. Pearl Street, Spiceland, IN 47385, (800) 238-7999 / (765) 987-7999, www.draperinc.com.

1) Nebraska Sales Rep (Draper Inc.): Brian Kunz, (765) 856-1214, bkunz@draperinc.com.

c. Lutron Shading Solutions by Vimco, Manual Clutch System, 7200 Suter Road, Coopersburg, PA 18036, (888) 588-7661, www.lutron.com.

1) Sales Team Contact (Lutron): Andrew Guskov, (610) 282-6071, aguskov@lutron.com.

d. Nysan MC2 Manual Clutch Shade System, (403) 204-8675.

2. Other equal products if and as specifically approved by the Architect by Addendum during the bidding period.

2.2 MATERIALS

A. Manual Clutch: Manufacturers standard manual clutch system for size of shade required. All manual clutch shades shall include a lift assist mechanism.

1. Bottom of control chain to be 48” AFF (in compliance with ADA height requirements), Typ.

B. Accessories:

1. Intermediate Brackets: as required.

C. Roller Tube shall be extruded aluminum of sufficient diameter and wall thickness to prevent excessive deflection along its length. The shade fabric will be spline-mounted to the roller to allow shade fabric to be removed from the roller without having to remove roller from the brackets. **Adhesives, double-sided adhesive tapes, staples, and/or rivets applied for mounting of the fabric are not acceptable**. A minimum of one turn of fabric will be placed on the roller before the working section of fabric starts.

1. Shades, 10 feet or more wide must have gear reduction lifting/clutch mechanism.

D. Hem Bar shall be either 1/8" x 1" or 3/16" x 1-1/2" extruded aluminum bar depending on size of shade, pocketed in lower end of fabric by thermal seal.

E. Shade retention systems may be required to maintain shade position where HVAC registers are directly in front of floor to ceiling windows.

F. Recess-mounted Single Shade Pocket shall be 5-5/16" wide by 5-1/4" high extruded aluminum enclosure with a 3" wide closure for use when the shade is to be recessed into the ceiling or completely concealed.

1. WIC-1, Manual Clutch Rolling Shade: Equal to MechoShade Mecho/5 and #4123 Recessed Ceiling Pocket.
2. Finish: White.

G. Shadecloth Materials:

1. Vinyl jacketed polyester fabrics, 3% openness (See drawings for locations).

a. Style: EuroTwill 6000 Series (+/- 3% openness). Color: Charcoal, 6012.

H. Fire Retardance: The described woven fabrics have been tested by an approved laboratory and meet the minimum requirements established by the California State Fire Marshal, per California Administrative Code, Title 19, Public Safety, Sub-chapter 8, Article 4, Section 1237, paragraph (b) as amended in 1986 and as modified by the State Fire Marshal in subsequent discussions. They also pass the National Fire Protection Association Test #701, and shall be fade resistant to commercially accepted standards.

3. EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions for compliance with requirements for installation tolerances, operational clearances, and other conditions affecting performance of window shades.

1. Proceed with installation only after unsatisfactory conditions have been met.

3.2 INSTALLATION

A. Install window shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions, and located so shade band is not closer than 2 inches (50 mm) to interior face of glass. Allow clearances for window operation hardware. **Surface-Mounted Roller Window Shades shall not be attached to the window system, Typ.**

3.3 ADJUSTING

A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING

A. Clean window shade surfaces, according to manufacturer's instructions, after installation.

B. Remove surplus materials, packaging, rubbish, and debris resulting from installation. Leave installation areas neat, clean, and ready for use.

3.5 PROTECTION

A. Provide final protection and maintain conditions in a manner acceptable to manufacturer and installer that ensure that window shades are without damage or deterioration at the time of Substantial Completion.

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain roller shades. Refer to Division 01 Section Demonstration and Training.

END OF SECTION 12 24 13

SECTION 22 61 13 – COMPRESSED AIR AND WELDING GAS SYSTEMS

1. GENERAL

1.1 SECTION INCLUDES

A. Equipment, accessories, pipe, and pipe fittings for:

1. Compressed air system.
2. Welding Gas Systems.

1.2 REFERENCES

A. MSS SP-58 - Pipe Hangers and Supports - Materials, Design and Manufacture.

B. MSS SP-69 - Pipe Hangers and Supports - Selection and Application.

C. ASME B31.9 Building Services Piping

D. National Fire Protection Association (NFPA), NEC National Electrical Code

1.3 SUBMITTALS

A. Reference Section 230500.

1.4 QUALITY ASSURANCE

A. Perform work in accordance with ASME B31.9.

B. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum five years documented experience.

C. Installer Qualifications: Company specializing in performing the work of this section with minimum five years documented experience.

D. Brazing Qualifications: Must meet the brazing qualification standard outlined in ASME B31.9.

1.5 REGULATORY REQUIREMENTS

A. Provide certificate of compliance from authority have jurisdiction indicating approval of systems.

B. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., or other testing firm acceptable to the authority having jurisdiction as suitable for the purpose specified and indicated.

1.6 DELIVERY, STORAGE, AND PROTECTION

A. Accept material on site in factory containers and packing. Inspect for damage.

B. Protect from damage and contamination by maintaining factory packaging and caps in place until installation.

2. PRODUCTS

2.1 PIPE AND FITTINGS

A. Compressed Air and Welding Gas:

1. Copper Tube: ASTM B 88 Type L, hard drawn, seamless.
2. Wrought-Copper Fittings: ASME B16.22, solder-joint pressure type or MSS SP-73, wrought copper with dimensions for brazed joints.
3. Cast-Copper-Alloy Flanges: ASME B16.24, Class 150 or 300.
4. Copper Unions: MSS SP-123.
5. Joints: AWS A5.8 Classification BCuP-3 or BCuP-4 silver braze.

B. Compressed Air and Welding Gas (DURATEC):

1. High density polyethylene (HDPE) and aluminum, PE-AL-PE composite pressure pipe. ASTM F1282, CSA B137.9. 200 PSI design pressure rated at 73 Deg. F. Outer layer of HDPE to include UV stabilizer. Inner HDPE layer shall be resistant to synthetic and natural compressor oils.
2. Fittings: ASTM F1974, CSA B137.9, UNS S31600 stainless steel.

2.2 VALVES.

A. Ball Valves:

1. Bronze body, three piece, double-seal ball valves with replaceable neoprene or teflon seat and stem seals, for minimum 600 psi cold working pressure, flange or union mounting, labeled for intended service.

2.3 PIPING ACCESSORIES

A. Hangers and Supports: MSS SP-58 with types as required by MSS SP-69.

B. Pressure Gauges:

1. ANSI B40.1, white dials and black lettering with restrictor.
2. Manufactured and labeled expressly for intended service; UL labeled.

C. Flexible Connectors: Corrugated flexible, single ply, seamless or seam-welded tubing of stainless steel or bronze or reinforced teflon bellows or hose.

3. EXECUTION

3.1 INSTALLATION

A. Braze joints in pipe and tubing. During brazing of pipe connections, purge interior of pipe continuously with nitrogen.

B. Effect changes in size with reducing fittings. Make changes in direction of required turns or offsets with fittings or tubing shaped by bending tools. Make bends free of flattening, buckling or thinning of tube wall.

C. Cut pipe and tubing accurately and install without springing or forcing.

D. Grade piping down in direction of flow.

E. Provide pipe sleeves where pipes and tubing pass through walls, floors, roofs, and partitions. Finish flush at both ends. Extend 2 inches above finished floors. Pack space between pipe or tubing and sleeve, and calk.

F. Install HDPE piping per manufacturer's recommendations.

G. Support gas piping with pipe hooks or hangers suitable for size of pipe, spaced:

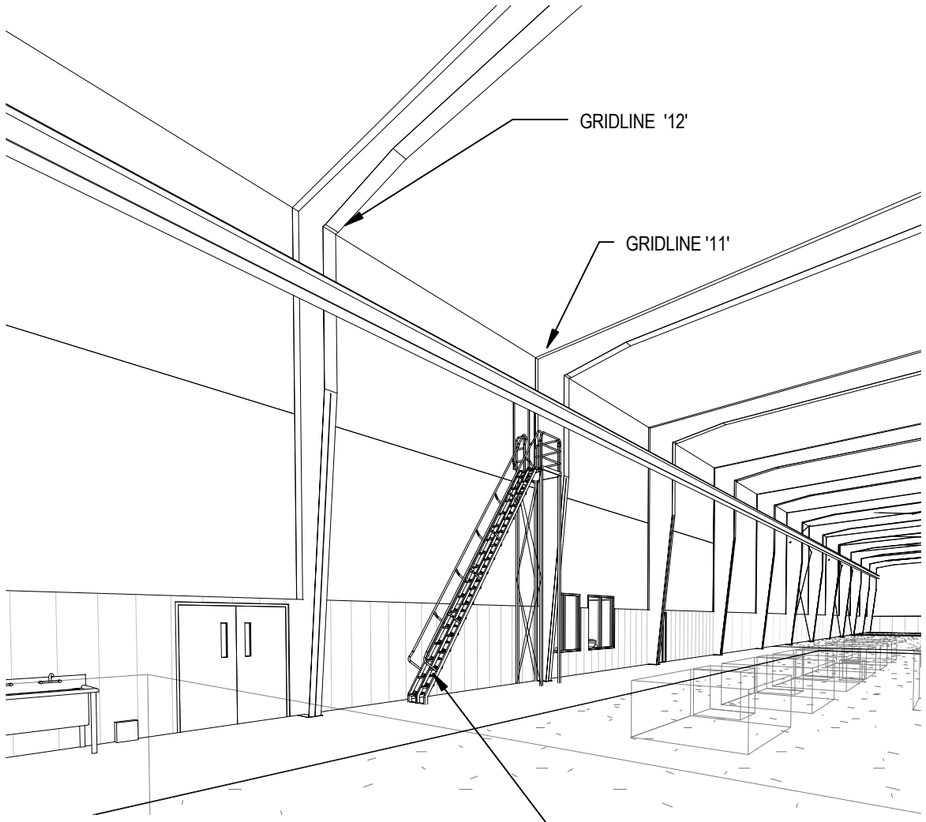
1. 1/2 inch pipe or tubing or less: 72 inches.
2. 3/4 inch or one inch pipe or tubing: 96 inches.
3. 1-1/4 inches or larger (horizontal): 120 inches.
4. Vertical pipe or tubing: Every floor level.
5. Support HDPE piping per manufacturer's requirements.

FIELD QUALITY CONTROL

H. Compressed Air Piping and Vacuum Piping Leak Test: Cap and fill piping system with oil-free dry air or gaseous nitrogen to pressure of 50 psig above system operating pressure, but not less than 150 psig. Isolate the test source and let stand for four hours to equalize temperature. Refill system, if necessary, to test pressure; hold for two hours with no drop in system pressure.

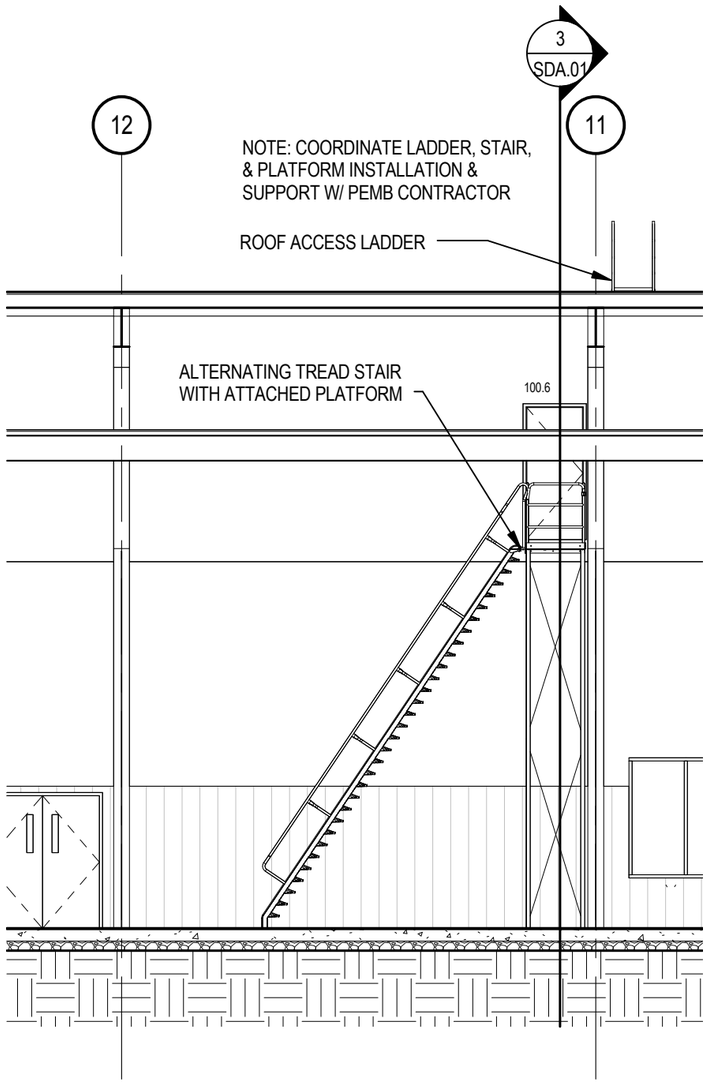
I. Repair or replace piping as required to eliminate leaks, and retest to demonstrate compliance.

END OF SECTION 22 61 13



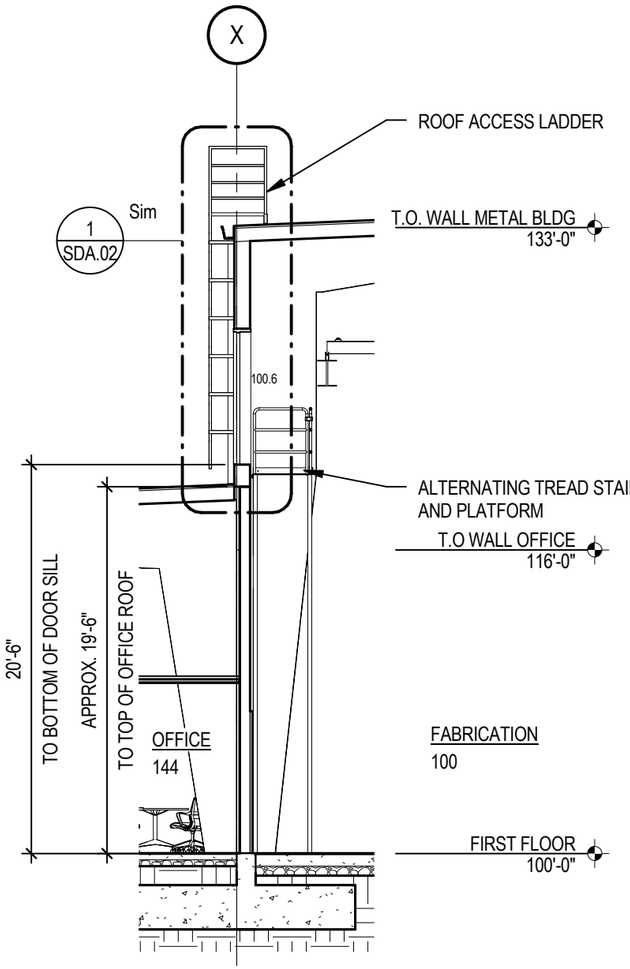
1 PERSPECTIVE

SCALE:



2 SECTION

SCALE: 1/8" = 1'-0"



3 SECTION

SCALE: 1/8" = 1'-0"

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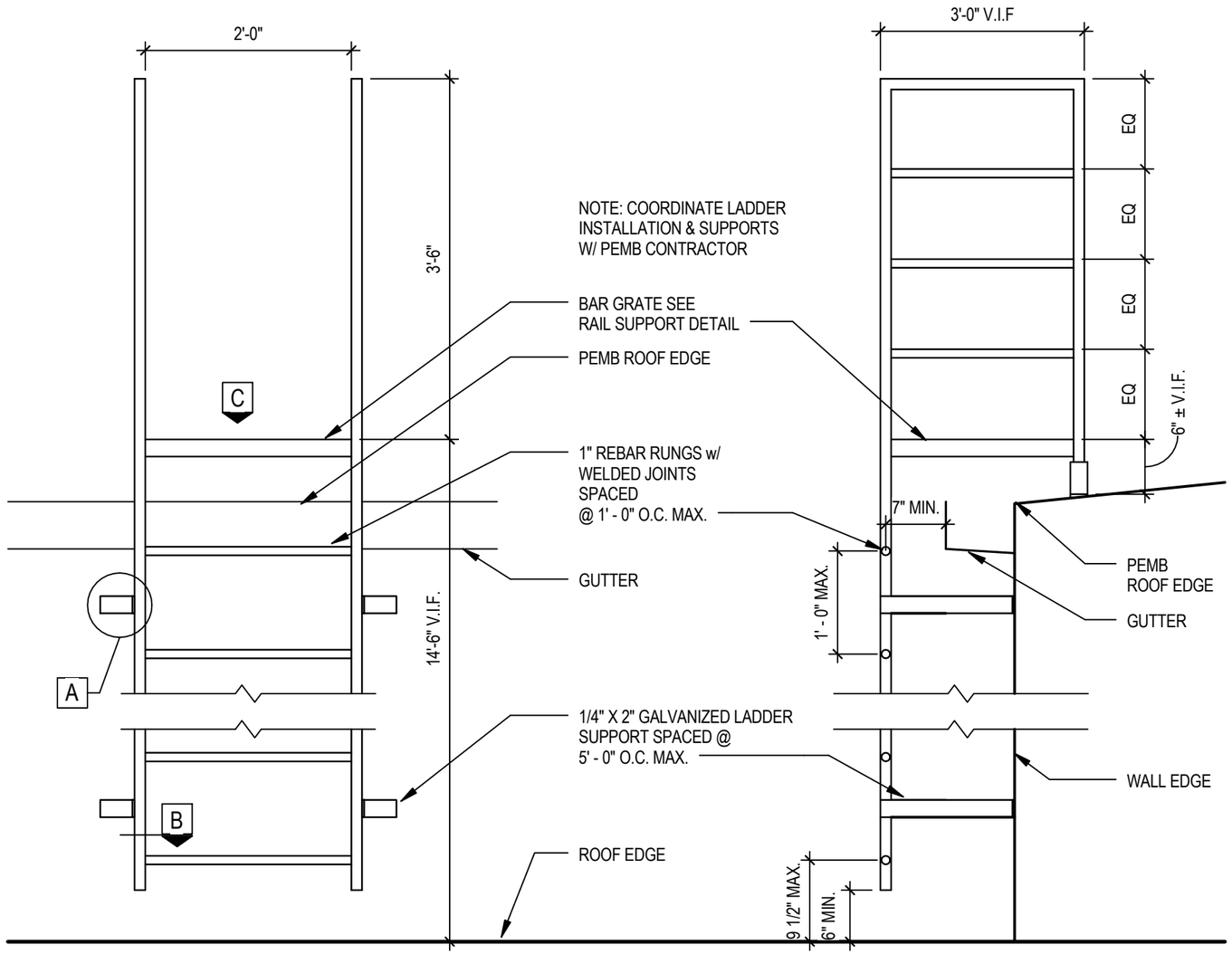
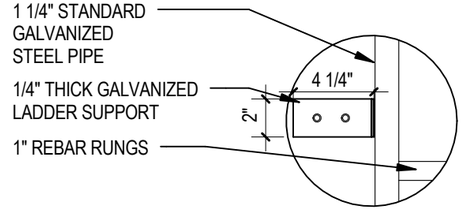
TCEP No.: 833-001-12

Roof Access Stair
Supplemental Drawing: SDA.01
Revision of Sheet: NA
Date: 11/18/13



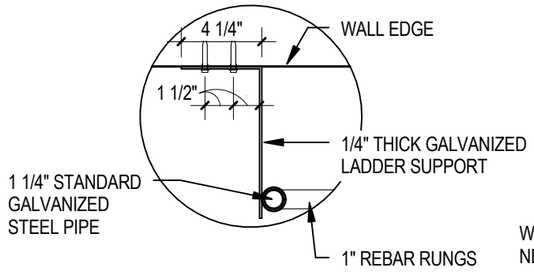
ELEVATION

SECTION

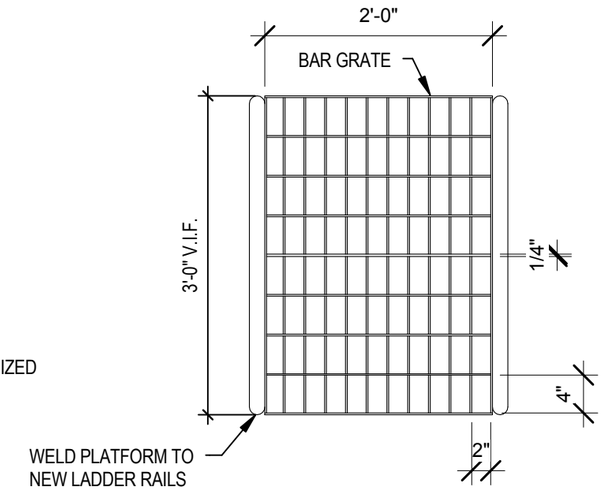


A RAIL SUPPORT DETAIL

NOTE: PROVIDE SECOND SHEET OF GRANULAR SURFACE MODIFIED BITUMEN CAP SHEET AS TRAFFIC PAD AT BASE AND TOP OF LADDERS



B RAIL SUPPORT DETAIL



C RAIL SUPPORT DETAIL

ROOF LADDER

SCALE: 3/4" = 1'-0"

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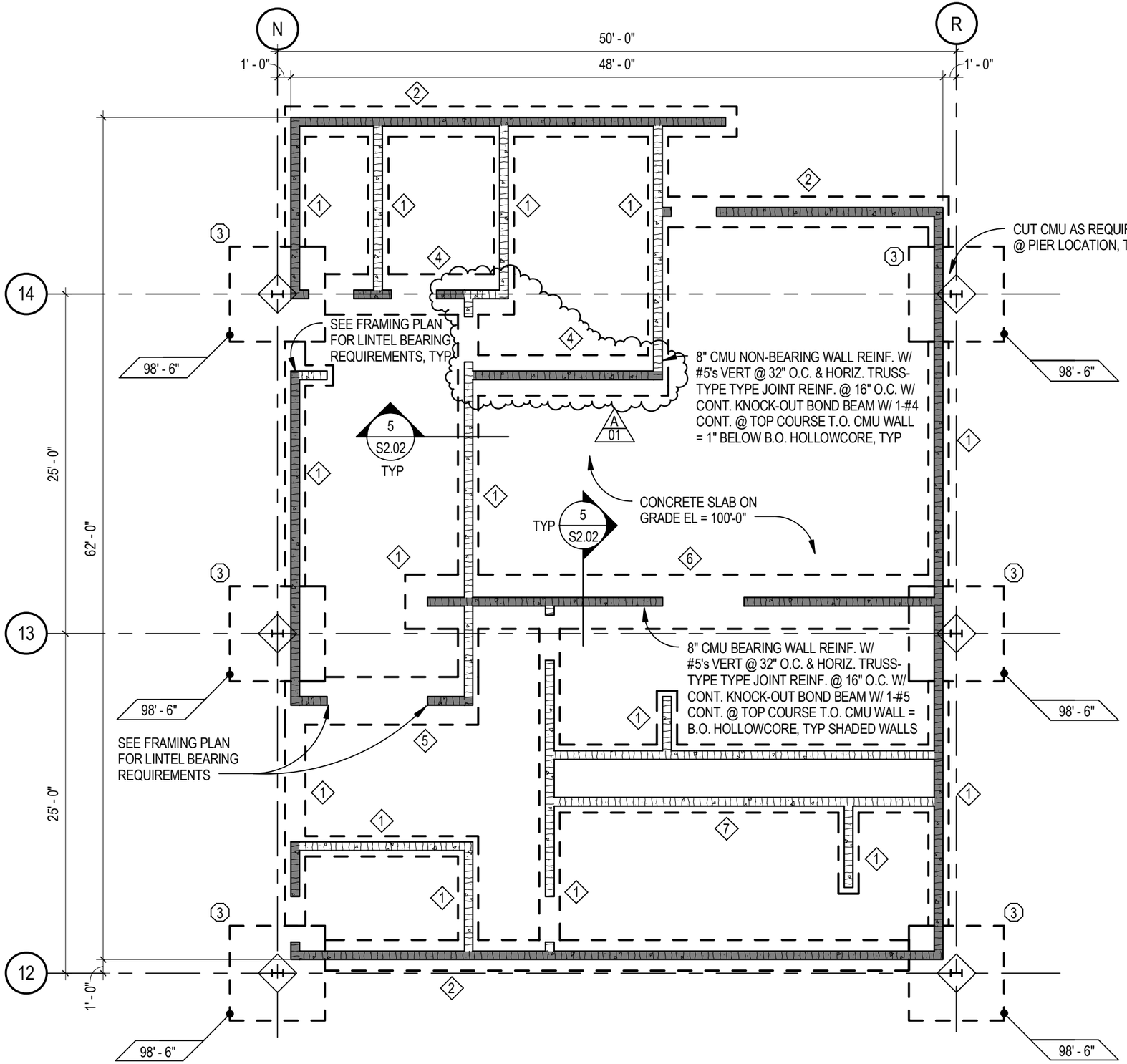
TCEP No.: 833-001-12

Roof Access Ladder Details
Supplemental Drawing: SDA.02
Revision of Sheet: NA
Date: 11/18/13



1 FOOTING & FOUNDATION PLAN - CANTEEN NORTH

SCALE: 1/8" = 1'-0"

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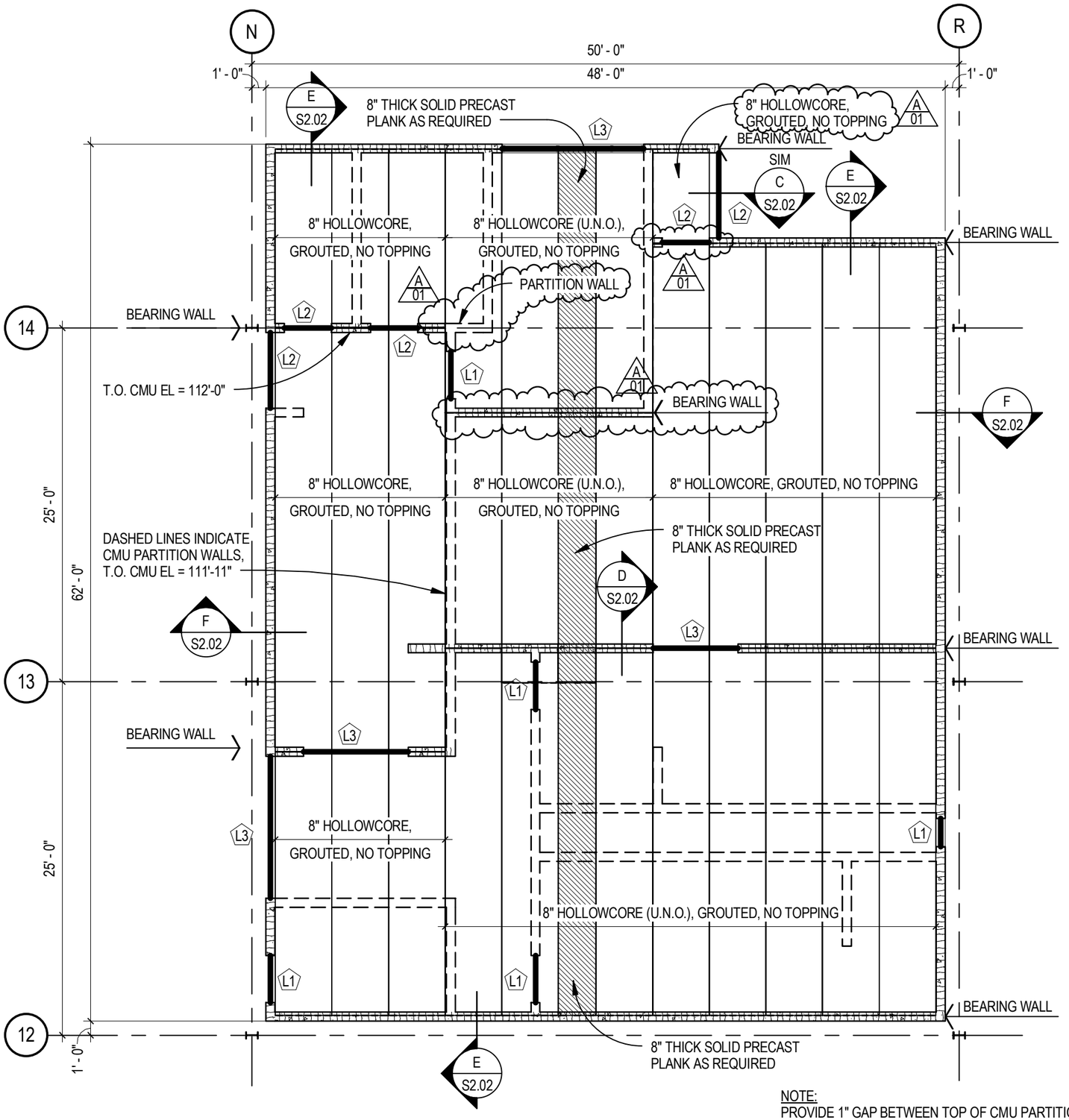
TCEP No.: 833-001-13

Addendum #02
Supplemental Drawing: SDS-002
Revision of Sheet: S1.02
Date: 11/20/13



NOTE:
PROVIDE 1" GAP BETWEEN TOP OF CMU PARTITION WALLS (SHOWN W/ DASHED LINES) AND BOTTOM OF HOLLOWCORE

2 FRAMING PLAN - CANTEEN NORTH

SCALE: 1/8" = 1'-0"

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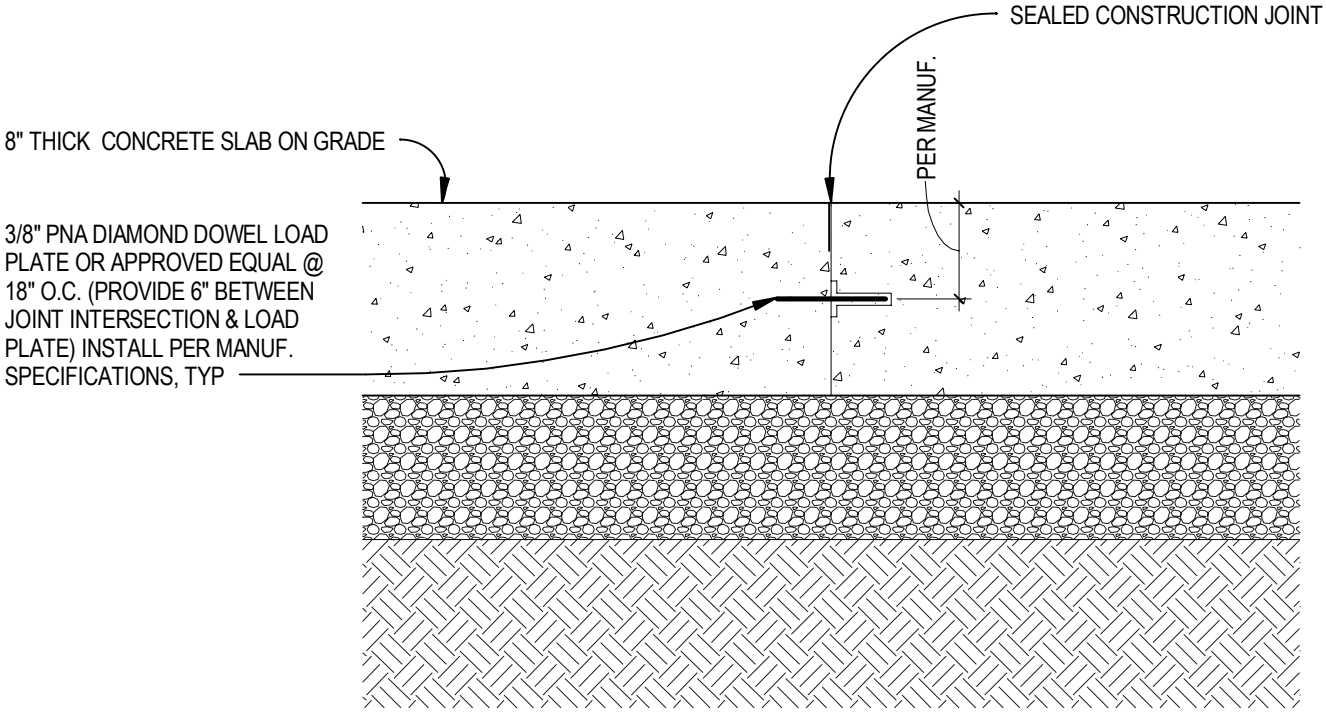
TCEP No.: 833-001-13

Addendum #02
Supplemental Drawing: SDS-003
Revision of Sheet: S1.02
Date: 11/20/13



2 8" SLAB DIAMOND PLATE @ CONSTRUCTION JOINT

SCALE: 1 1/2" = 1'-0"

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Addendum #02
Supplemental Drawing: SDS-007
Revision of Sheet: S1.03
Date: 11/20/13

ROOM FINISH SCHEDULE - AREA 'B'

ROOM NUMBER	ROOM NAME	FLOOR			NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING			COMMENTS
		MTL.	FIN.	BASE	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	HT.	
120	LOBBY	CONC	PCT-1/CPT-4	RB-1,2,3,8	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1,3	GPDW	PT-1,8	VARIES	-/PT-2,9		
121	ENTRY VESTIBULE	CONC	CPT-5	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-9	10'-0"	
122	MEETING ROOM	CONC	CPT-2	RB-1,2	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-2	GPDW/APC-1	PT-2/-	10'-0"	
123	MEN'S RR	CONC	PCT-1	-/CT-2	GPDW	CT-1/PT-1	GPDW	CT-2/PT-1	GPDW	CT-1/PT-1	GPDW	GT-1/CT-1,3/PT-1	GPDW	PT-9	8'-0"	
124	WOMEN'S RR	CONC	PCT-1	-/CT-2	GPDW	CT-1/PT-1	GPDW	GT-1/CT-1,3/PT-1	GPDW	CT-1/PT-1	GPDW	CT-2/PT-1	GPDW	PT-9	8'-0"	
130	OPEN OFFICE	CONC	CPT-1,2	RB-1,3,4	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1,3,4	APC-1	-	10'-0"	
131	CONFERENCE ROOM	CONC	CPT-2	RB-1,2	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-2	APC-1	-	9'-0"	
132	CONFERENCE ROOM	CONC	CPT-2	RB-1,4	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-4	APC-1	-	9'-0"	
133	WORKROOM	CONC	CPT-1	RB-1,6	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-6	APC-1	-	9'-0"	
134	STORAGE	CONC	CPT-2	RB-7	GPDW	PT-7	GPDW	PT-7	GPDW	PT-7	GPDW	PT-7	APC-1	-	10'-0"	
135	MEETING ROOM	CONC	CPT-2	RB-1,2	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-2	APC-1	-	10'-0"	
136	MEETING ROOM	CONC	CPT-2	RB-1,5	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-5	APC-1	-	10'-0"	
140	OFFICE WAITING	CONC	CPT-1	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	10'-0"	
141	OFFICE	CONC	CPT-3	RB-1,4	GPDW	PT-1	GPDW	PT-1	GPDW	PT-4	GPDW	PT-1	APC-1	-	9'-0"	
142	OFFICE	CONC	CPT-3	RB-1,5	GPDW	PT-1	GPDW	PT-1	GPDW	PT-5	GPDW	PT-1	APC-1	-	9'-0"	
143	OFFICE	CONC	CPT-3	RB-1,6	GPDW	PT-1	GPDW	PT-1	GPDW	PT-6	GPDW	PT-1	APC-1	-	9'-0"	
144	OFFICE	CONC	CPT-3	RB-1,3	GPDW	PT-3	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	9'-0"	
145	ELECTRICAL / SERVER	CONC	SEALED	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	-	-	-	
146	MEETING ROOM	CONC	CPT-3	RB-1,2	GPDW	PT-2	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	9'-0"	
147	WORK ROOM	CONC	CPT-1	RB-1,4	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-4	APC-1	-	9'-0"	
150	CORRIDOR	CONC	CPT-1	RB-1,5,8	GPDW	PT-1	GPDW	PT-8	GPDW	PT-1	GPDW	PT-1,5	APC-1	-	9'-0"	
151	VESTIBULE	CONC	CPT-5		GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1		9'-0"	
152	WOMEN'S RR	CONC	PCT-2	-/CT-2	GPDW	CT-4/PT-5	GPDW	CT-4/PT-1	GPDW	CT-1,2	GPDW	CT-4/PT-1	GPDW	PT-9	8'-0"	
153	MEN'S RR	CONC	PCT-2	-/CT-2	GPDW	CT-1,2	GPDW	CT-4/PT-1	GPDW	CT-4/PT-1,2	GPDW	CT-4/PT-1	GPDW	PT-9	8'-0"	
154	CUSTODIAL	CONC	SEALED		GPDW	PT-1	GPDW	PT-1/CT-1	GPDW	PT-1/CT-1	GPDW	PT-1	-			
160	CAFETERIA 'A'	CONC	POLISHED	RB-6,7,8	-	-	GPDW	PT-4,8	GPDW	PT-3,8	GPDW	PT-8	APC-1	-	10'-0"	
161	CAFETERIA 'B'	CONC	POLISHED		GPDW	PT-8	GPDW	PT-8	-	-	GPDW	PT-8	APC-1		10'-0"	
163	STORAGE	CONC	SEALED	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	8'-0"	

FINISH MATERIALS LIST

CARPET TILE

CPT-1	MANUFACTURER: SHAW CONTRACT PRODUCT: FOLDED EDGE TILE, 18"x36" COLOR: DOLPHIN OBSIDIAN INSTALLATION METHOD: BRICK
CPT-1 ALT.	*MANUFACTURER: INTERFACE* *PRODUCT: GRASMERE, 50 cm x 1 m* *COLOR: CRAG, 102844* *INSTALLATION METHOD: BRICK*
CPT-2	MANUFACTURER: INTERFACE PRODUCT: URBAN RETREAT, UR102, 50 cm x 50 cm COLOR: STONE INSTALLATION METHOD: NON-DIRECTIONAL
CPT-3	MANUFACTURER: INTERFACE PRODUCT: URBAN RETREAT, UR303, 50 cm x 50 cm COLOR: STONE INSTALLATION METHOD: QUARTER-TURN
CPT-3 ALT.	*MANUFACTURER: INTERFACE* *PRODUCT: NET EFFECT, B702, 25 cm x 1 m* *COLOR: CASPIAN, 102901* *INSTALLATION METHOD: ASHLAR*
CPT-4	MANUFACTURER: SHAW CONTRACT PRODUCT: BLUR TILE, 59596 COLOR: SHADED, 95595 INSTALLATION METHOD: BRICK
CPT-5	MANUFACTURER: INTERFACE (WALK OFF CARPET) PRODUCT: ENTRY LEVEL, 50 cm x 50 cm COLOR: BLACK, 7187 INSTALLATION METHOD: NON DIRECTIONAL
CPT-5 ALT.	*MANUFACTURER: SHAW CONTRACT* *PRODUCT: PATH TILE, 24" x 24"* *COLOR: LAVA, 34549* *INSTALLATION METHOD: ASHLAR*

PORCELAIN CERAMIC TILE

PCT-1	MANUFACTURER: ERGON PRODUCT: BACK2BACK COLOR: BACK GREY/NATURALE SIZE: 23-5/8" x 47-1/4"
PCT-1 ALT. 1	*MANUFACTURER: ASCOT CERAMICHE* *PRODUCT: KALAHARI* *COLOR: GREY, NATURALE* *SIZE: 24" X 24"*
PCT-1 ALT. 2	*SEALED CONCRETE FLOORS AT LOBBY/RECEPTION (120) IN LIEU OF PCT-1*

CERAMIC TILE

CT-1	MANUFACTURER: AMERICAN OLEAN PRODUCT: URBAN CANVAS COLOR: MATTE DESIGNER WHITE, 0061 SIZE: 4-1/4" x 12-3/4" FIELD TILE
CT-2	MANUFACTURER: AMERICAN OLEAN PRODUCT: URBAN CANVAS COLOR: MATTE DESIGNER WHITE, 0061 SIZE: 4-1/4" x 12-3/4" SURFACE BULLNOSE
CT-3	MANUFACTURER: AMERICAN OLEAN PRODUCT: URBAN CANVAS COLOR: MATTE LIGHT SMOKE, 0004 SIZE: 4-1/4" x 12-3/4" FIELD TILE
CT-4	MANUFACTURER: AMERICAN OLEAN PRODUCT: MATTE COLOR: MATTE DESIGNER WHITE, 0061 SIZE: 4-1/4" x 4-1/4" FIELD TILE W/ CORRESPONDING SURFACE BULLNOSE (S-4449)
CT-1 ALT.	*MANUFACTURER: DALTILE* *PRODUCT: WALL TILE, SEMI-GLOSS/MATTE GROUP 1* *COLOR: MATTE ARCTIC WHITE, 0790* *SIZE: 6" x 6" FIELD TILE*
CT-2 ALT.	*MANUFACTURER: DALTILE* *PRODUCT: WALL TILE, SEMI-GLOSS/MATTE GROUP 1* *COLOR: MATTE ARCTIC WHITE, 0790* *SIZE: 6" x 6" SURFACE BULLNOSE, S-4669*
CT-3 ALT.	*MANUFACTURER: DALTILE* *PRODUCT: WALL TILE, SEMI-GLOSS/MATTE GROUP 1* *COLOR: MATTE DESERT GRAY, X714* *SIZE: 6" x 6" FIELD TILE*
CT-4 ALT.	*MANUFACTURER: DALTILE* *PRODUCT: WALL TILE, SEMI-GLOSS/MATTE GROUP 1* *COLOR: MATTE ARCTIC WHITE, 0790* *SIZE: 4-1/4" x 4-1/4" FIELD TILE WITH CORRESPONDING SURFACE BULLNOSE PIECE (S-4449)*

GLASS TILE

GT-1	MANUFACTURER: DAL TILE PRODUCT: REFLECTIONS IN GLASS TILE COLOR: COBALT BLUE SIZE: STRUT MOSAIC
GT-1 ALT	*MANUFACTURER: INTERSTYLE* *PRODUCT: GLASSTYLE* *COLOR: INDIGO* *SIZE: 1" x 1" MESH MOUNTED MOSAIC*

PAINT

PT-1	MANUFACTURER: SHERWIN WILLIAMS (GENERAL WALLS) COLOR: WORLDLY GRAY, SW 7043
PT-2	MANUFACTURER: SHERWIN WILLIAMS COLOR: TO MATCH PANTONE COLOR: PMS 3005C (BLUE)
PT-3	MANUFACTURER: SHERWIN WILLIAMS COLOR: TO MATCH PANTONE COLOR: PMS 151C (ORANGE)
PT-4	MANUFACTURER: SHERWIN WILLIAMS COLOR: TO MATCH PANTONE COLOR: PMS 268C (PURPLE)
PT-5	MANUFACTURER: SHERWIN WILLIAMS COLOR: TO MATCH PANTONE COLOR: PMS 200C (RED)
PT-6	MANUFACTURER: SHERWIN WILLIAMS COLOR: TO MATCH PANTONE COLOR: PMS 2905C (LIGHT BLUE)
PT-7	MANUFACTURER: SHERWIN WILLIAMS COLOR: TO MATCH PANTONE COLOR: PMS 247C (PINK)
PT-8	MANUFACTURER: SHERWIN WILLIAMS COLOR: DOVETAIL, SW 7018
PT-9	MANUFACTURER: SHERWIN WILLIAMS COLOR: CEILING BRIGHT WHITE, SW 7007
PT-10	MANUFACTURER: SHERWIN WILLIAMS COLOR: MINDFUL GRAY, SW 7016
PT-11	MANUFACTURER: SHERWIN WILLIAMS COLOR: TRICORN BLACK, SW 6258

WOOD STAIN

ST-1	MANUFACTURER: SHERWIN WILLIAMS WOOD SPECIES: MAPLE STAIN COLOR: TO MATCH MARSHFIELD DOORS 'BOMBAY'

WOOD

WD-1	WOOD SPECIES: MAPLE CUT: QUARTER-SAWN
WD-1 ALT.	*WOOD SPECIES: MAPLE* *CUT: PLAIN SLICED*

SOLID SURFACE

SS-1	MANUFACTURER: KRION SOLID SURFACING (SILLS) PATTERN: SNOW WHITE, 1100
SS-2	MANUFACTURER: KRION SOLID SURFACING PATTERN: BRIGHT CONCRETE, 9904

PLASTIC LAMINATE

PL-1	MANUFACTURER: NEVAMAR PATTERN/COLOR: SILVERLINE HAUTELINK TEXTURED
PL-2	MANUFACTURER: NEVAMAR PATTERN/COLOR: WILD OATS MATRIX TEXTURED, MR7002T
PL-3	MANUFACTURER: FORMICA PATTERN/COLOR: GRAPHITE TWILL, 8829-58
PL-4	MANUFACTURER: FORMICA PATTERN/COLOR: SMOKY BROWN PEAR, 5488-NT
PL-5	MANUFACTURER: WILSONART PATTERN/COLOR: NORTH SEA, D90-60

METAL LAMINATE

ML-1	MANUFACTURER: WILSONART PATTERN/COLOR: ALUMASTEEL ALUMINUM, #6277 (419)

RESILIENT BASE

RB-1	MANUFACTURER: JOHNSONITE PRODUCT: 4" RUBBER BASE COLOR: PLATINUM, 21
RB-2	MANUFACTURER: JOHNSONITE PRODUCT: 4" RUBBER BASE COLOR: MARINE, 14
RB-3	MANUFACTURER: JOHNSONITE PRODUCT: 4" RUBBER BASE COLOR: COPPER PENNY, 273
RB-4	MANUFACTURER: JOHNSONITE PRODUCT: 4" RUBBER BASE COLOR: SOVEREIGN, 162
RB-5	MANUFACTURER: JOHNSONITE PRODUCT: 4" RUBBER BASE COLOR: PAPRIKA, 148
RB-6	MANUFACTURER: JOHNSONITE PRODUCT: 4" RUBBER BASE COLOR: TIDEWATER, 192
RB-7	MANUFACTURER: JOHNSONITE PRODUCT: 4" RUBBER BASE COLOR: IRIS, 74
RB-8	MANUFACTURER: JOHNSONITE PRODUCT: 4" RUBBER BASE COLOR: GREY, 48

ACOUSTICAL PANEL CEILING

APC-1	MANUFACTURER: ARMSTRONG PRODUCT: OPTIMA SIZE: 24" x 24" x 1 SQUARE TEGULAR FOR 9/16" GRID COLOR: WHITE
APC-1 ALT.	*MANUFACTURER: ARMSTRONG* *PRODUCT: CIRRUS, BEVELED TEGULAR* *SIZE: 24" x 24" x 7/8" SQUARE TEGULAR FOR 9/16" GRID* *COLOR: WHITE*

COMPOUND CEILING

CC-1	MANUFACTURER: ARMSTRONG PRODUCT: SOUNDSCAPES BLADES, 3921 SIZE: 10" x 94" COLOR: WHITE
CC-1 ALT.	*MANUFACTURER: ARMSTRONG* *PRODUCT: OPTIMA* *SIZE: 24" x 24" x 1" SQUARE TEGULAR FOR 9/16" GRID* *COLOR: WHITE*

WINDOW COVERINGS

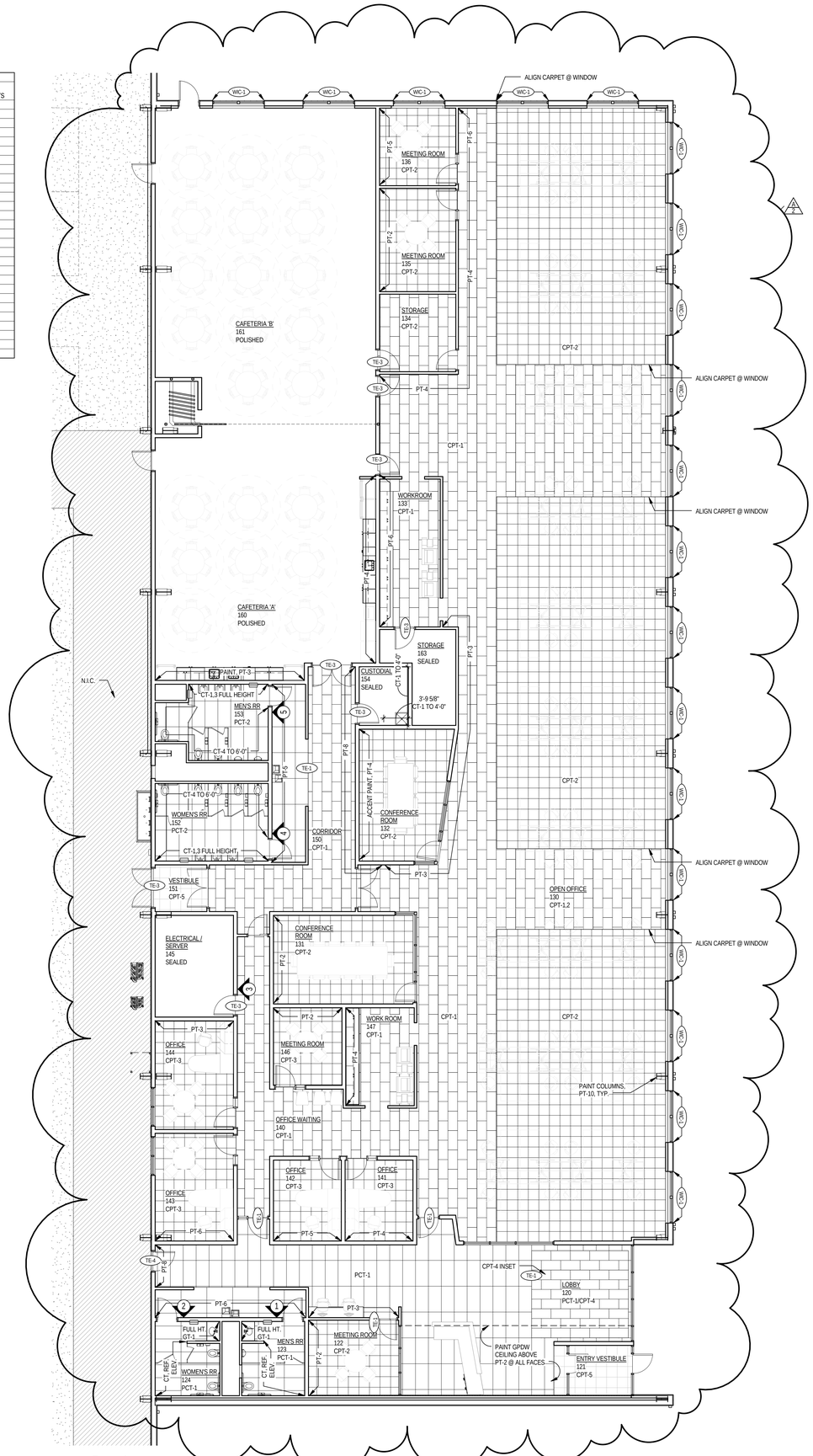
WIC-1	MANUFACTURER: MECHOSHADE PRODUCT: MANUAL CLUTCH SINGLE ROLLER SHADE W/ RECESSED CEILING POCKET, 3% OPENNESS FABRIC/COLOR: EUROTWILL 6000 SERIES CHARCOAL 6012

FINISH NOTES:

1. RUBBER BASE TO COORDINATE WITH ACCENT WALL COLOR AS FOLLOWS (WITH EXCEPTION TO ROOMS WITH WOOD BASE):
   RB-1, PT-1 RB-2, PT-2
   RB-3, PT-3 RB-4, PT-4
   RB-5, PT-5 RB-6, PT-6
   RB-7, PT-7 RB-8, PT-8

2. CMU WALLS AT AREA 'A' LOCKER ROOMS, RESTROOMS, AND CUSTODIAL ROOMS SHALL RECEIVE AN EPOXY PAINT FINISH.

3. ALL VESTIBULES TO RECEIVE WALK OFF CARPET.



1/8" FIRST FLOOR FINISH - AREA 'B'

SCALE: 1/8" = 1'-0"

***FURNITURE SHOWN FOR REFERENCE ONLY, NOT IN CONTRACT.

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SHEET HISTORY:

ISSUED	11/1/2013	CONSTRUCTION DOCUMENTS
A - 2	11/19/2013	ADDENDUM 2

IAC / GT EXHAUST

W. Kearney and
NW 38th ST.
Lincoln, NE 68524

TCEP No.: 833-001-12
LA No.: LAPW-13-03
Building 1445 GTE

November 1, 2013

First Floor Finish Plan - Area 'B'

F1.02

FACILITY PIPING PLAN

SCALE: 1/16" = 1'-0"

FACILITY PLUMBING PLAN NOTES:

1. CAP ALL ARC WELDING GAS AND AIR DROPS.
2. CONTRACTOR TO KEEP ALL PIPING OUT OF OVERHEAD CRANE PATH.

1" WELDING GAS TO TANKS

1 1/2" WELDING GAS DOWN TO GAS MIXER PROVIDED BY GAS SUPPLIER

1/2" WELDING GAS & 1/2" AIR DROP TO 48" A.F.F.

1/2" AIR DROP TO 48" A.F.F.

1 1/2" A DN TO OWNER FURNISHED DRYER & COMPRESSOR

2" CW DN

1" CW DN

2" OW DN

3" V DN

3" VTR

2" V DN

GAS METER & REGULATOR ASSEMBLY. COORDINATE WITH BLACK HILLS ENERGY

ADDENDUM #2 NOVEMBER 20, 2013

Plot Time Stamp: 11 / 20 / 2013 3:05:47 PM
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KEY PLAN

A | B | O
C | D
E | F

CONSTRUCTION DOCUMENTS

IAC / GT Exhaust

W. Kearney and
NW 38th St.
Lincoln, NE 68524

TCEP No.: 833-001-13
LA No.: LAPW-13-03
Building 1445 GTE

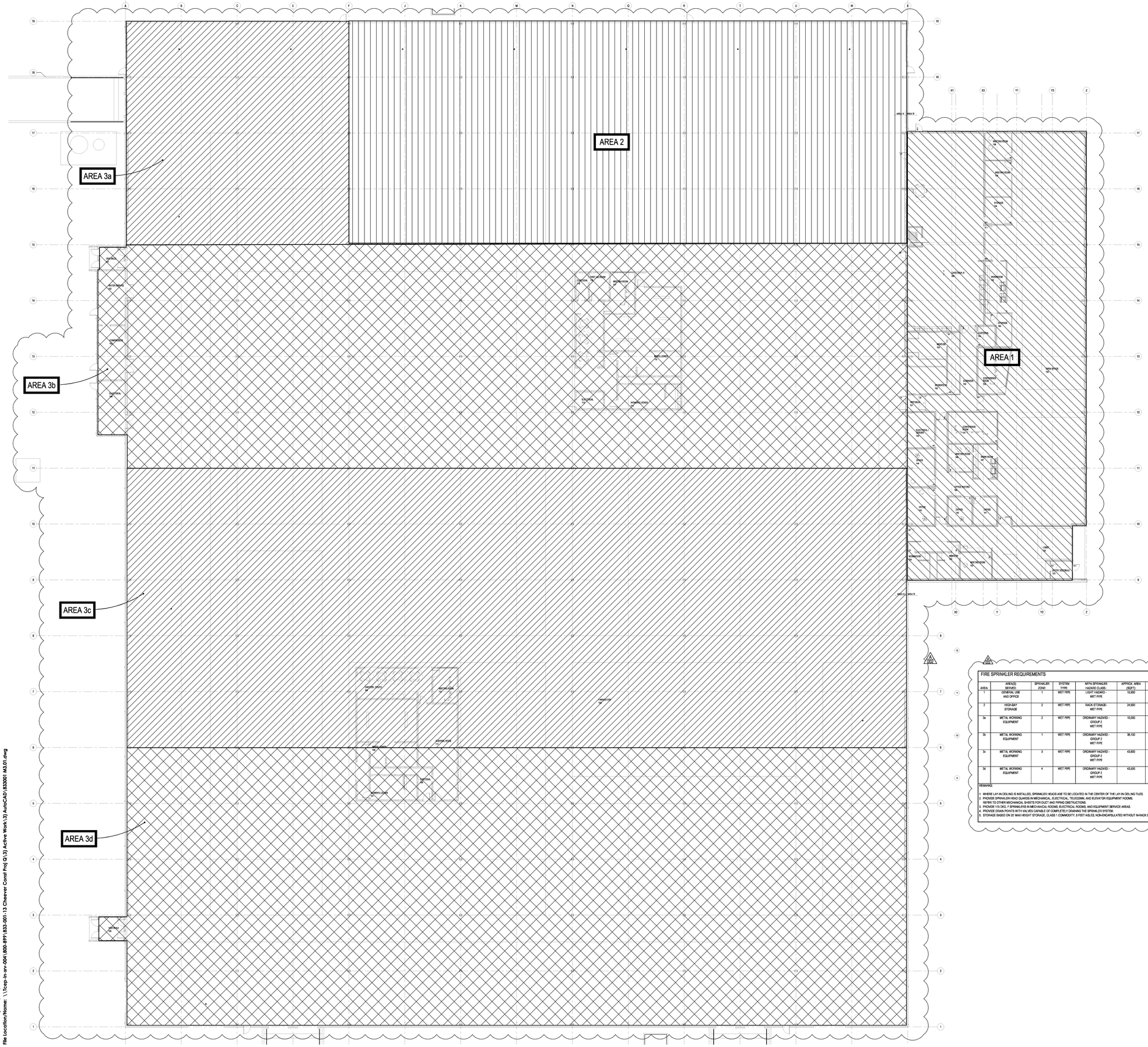
Oct. 25, 2013

PROFESSIONAL MECHANICAL ENGINEER
ANDREW D. MITCHELL
E-12268
STATE OF NEBRASKA

11-1-2013

Facility Piping Plan

M2.02



FIRE PROTECTION PLAN

SCALE: 1/16" = 1'-0"

FIRE SPRINKLER REQUIREMENTS

AREA	AREA(S) SERVED	SPRINKLER ZONE	SYSTEM TYPE	NFPA SPRINKLER HAZARD CLASS	APPROX. AREA (SQFT)	DENSITY (GPM / SQFT)	NOMINAL SPRINKLER TEMPERATURE RATING	SPRINKLER TYPE	REMARKS
1	GENERAL USE AND OFFICE	1	WET PIPE	LIGHT HAZARD - WET PIPE	15,900	SEE NFPA 13 LIGHT HAZARD TABLE	135 DEG. F	QUICK-RESPONSE	1,4
2	HIGH-BAY STORAGE	2	WET PIPE	RACK STORAGE- WET PIPE	24,900	SEE NFPA 13 COMMODITY CLASS 1 TABLE	250 DEG. F	HIGH TEMP CMSA	4,5
3a	METAL WORKING EQUIPMENT	2	WET PIPE	ORDINARY HAZARD - GROUP 2 WET PIPE	10,000	SEE NFPA 13 ORDINARY HAZARD GROUP 2 TABLE	N/A	N/A	2,3,4
3b	METAL WORKING EQUIPMENT	1	WET PIPE	ORDINARY HAZARD - GROUP 2 WET PIPE	36,100	SEE NFPA 13 ORDINARY HAZARD GROUP 2 TABLE	N/A	N/A	2,3,4
3c	METAL WORKING EQUIPMENT	3	WET PIPE	ORDINARY HAZARD - GROUP 2 WET PIPE	43,600	SEE NFPA 13 ORDINARY HAZARD GROUP 2 TABLE	N/A	N/A	2,3,4
3d	METAL WORKING EQUIPMENT	4	WET PIPE	ORDINARY HAZARD - GROUP 2 WET PIPE	43,500	SEE NFPA 13 ORDINARY HAZARD GROUP 2 TABLE	N/A	N/A	2,3,4

REMARKS:

1. WHERE LAY-IN CEILING IS INSTALLED, SPRINKLER HEADS ARE TO BE LOCATED IN THE CENTER OF THE LAY-IN CEILING TILES.
2. PROVIDE SPRINKLER HEAD GUARDS IN MECHANICAL, ELECTRICAL, TELECOMM, AND ELEVATOR EQUIPMENT ROOMS.
3. REFER TO OTHER MECHANICAL SHEETS FOR DUCT AND PIPING OBSTRUCTIONS.
4. PROVIDE 175 DEG. F SPRINKLERS IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND EQUIPMENT SERVICE AREAS.
5. PROVIDE DRAIN POINTS WITH VALVES CAPABLE OF COMPLETELY DRAINING THE SPRINKLER SYSTEM.
6. STORAGE BASED ON 20' MAX HEIGHT STORAGE, CLASS 1 COMMODITY, 6 FEET AISLES, NON-ENCAPSULATED WITHOUT IN-RACK SPRINKLERS.

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A B
C D
E F
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KEY PLAN

CONSTRUCTION DOCUMENTS

IAC / GT Exhaust

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TCEP No.: 833-001-13
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Nov. 1, 2013

PROFESSIONAL MECHANICAL ENGINEER
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E-12268
STATE OF NEBRASKA

11-1-2013

Fire Protection Plan

M3.01

Plot Time Stamp: 11 / 19 / 2013 4:37:22 PM
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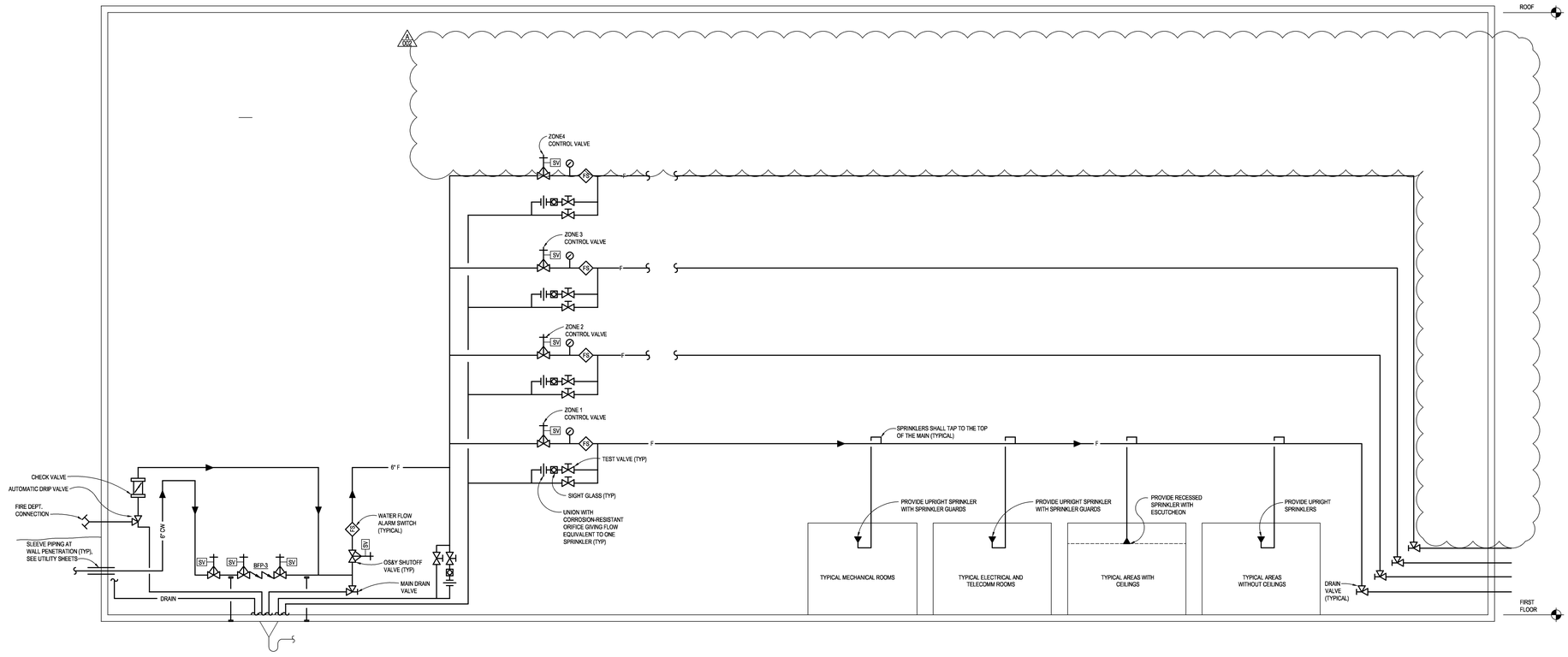

1 FIRE PROTECTION PIPING SCHEMATIC

NO SCALE

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STATE OF NEBRASKA

11-1-2013

Fire Protection Schematic

M3.02

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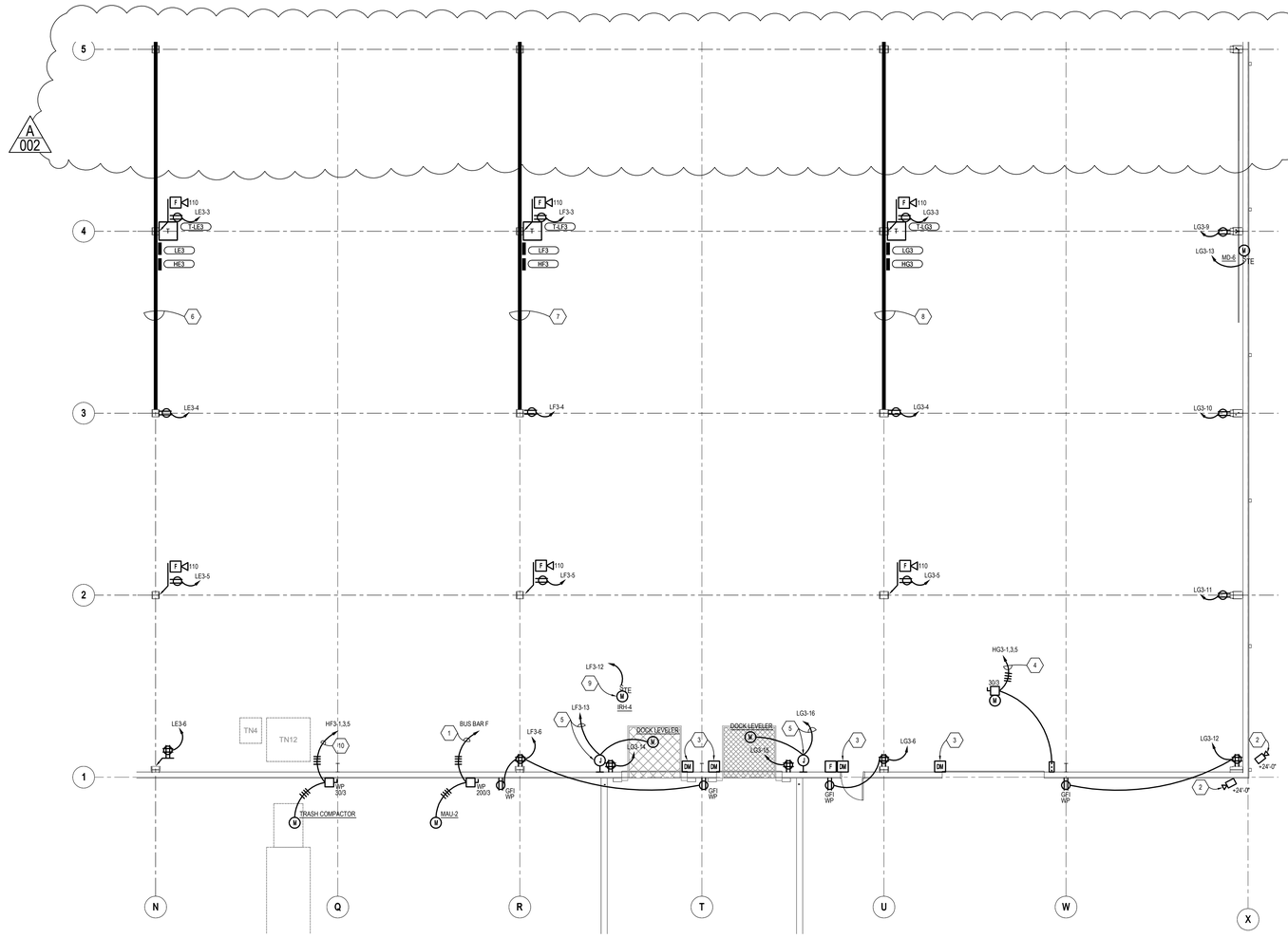

POWER & AUXILIARY SYSTEMS PLAN - AREA F

SCALE: 1/8" = 1'-0"

CONDUIT MUST BE ROUTED AND INSTALLED TO AVOID ALL CONFLICTS WITH GANTRY AND OVERHEAD CRANES TRAVEL. COORDINATE ALL ROUTING WITH CRANE PROVIDER AND OWNER PRIOR TO ROUGH-IN.

MOUNT ALL PANELBOARDS IN MANUFACTURING AREA (AREAS 'A' THROUGH 'F') TO UNISTRUT RACKS ADJACENT COLUMNS. COORDINATE LOCATION OF PANELBOARDS WITH OWNER PRIOR TO ROUGH-IN.

POWER & AUXILIARY SYSTEMS PLAN - AREA F NOTES:

1. SEE THE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. SECURITY CAMERA. PROVIDE A 4"X4" WP RECESSED JUNCTION BOX AND ROUTE A 1" CONDUIT WITH PULL STRING TO ELECTRICAL/SERVER 145.
3. DOOR MONITOR ROUGH-IN. SEE THE DOOR ACCESS CONTROL DETAIL FOR ADDITIONAL INFORMATION. ROUTE CONDUIT WITH PULLSTRING FROM CARD READER JUNCTION BOX TO ELECTRICAL/SERVER 145.
4. PROVIDE ALL ELECTRICAL CONNECTIONS BETWEEN OVERHEAD DOOR MOTOR AND 3-POSITION PUSH BUTTON ALL OTHER OVERHEAD DOOR ACCESSORIES.
5. PROVIDE ALL NECESSARY ELECTRICAL CONNECTIONS AND ACCESSORY CONTROLS TO DOCK LEVELER AND ALL OTHER DOCK LEVELER ACCESSORIES. ROUTE 2-#8 & 1-#8 GROUND IN 1/2" CONDUIT THROUGHOUT CIRCUIT.
6. BUS DUCT 'E'. SEE THE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. MOUNT AT +25'-0" AFF. COORDINATE HEIGHT OF BUS DUCT WITH OVERHEAD CRANE SUPPLIER.
7. BUS DUCT 'F'. SEE THE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. MOUNT AT +25'-0" AFF. COORDINATE HEIGHT OF BUS DUCT WITH OVERHEAD CRANE SUPPLIER.
8. BUS DUCT 'G'. SEE THE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. MOUNT AT +25'-0" AFF. COORDINATE HEIGHT OF BUS DUCT WITH OVERHEAD CRANE SUPPLIER.
9. GAS INFRARED HEATER (IRH-4) PROVIDED UNDER ALTERNATE BID #5. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
10. TRASH COMPACTOR. ROUTE WITH 3-#10 & 1-#10 GROUND IN 1/2" CONDUIT THROUGHOUT ENTIRE CIRCUIT. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

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Power & Auxiliary Systems Plan - Area 'F'

E2.06

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