

**Invitation to Bid
Welding Building Remodel
35-2015/2016**



PENSACOLA
STATE COLLEGE

Addendum #1

The current budget for the project is \$350,000.

Question: Request: REFERENCE SHEETS A-110 AND A-601 REGARDING DOOR MARK 100. COMPLETE DOOR SCHEDULE.

Response: Door 101 should match door 103. (There is no door 100).

Question: Request: REFERENCE SHEET A-140. PROVIDE SLOPE OF EXISTING ROOF AND / OR REQUIRED SLOPE FOR EACH NEW CANOPY. STRUCTURAL INDICATES 3:12; CONFIRM.

Response: Slope of existing roof is approximately 2-1/2":12, canopies are to match, field verify before manufacturing canopies.

Question: Request: REFERENCE SHEETS A-109, A-110 AND A-201 REGARDING THE ROLL-UP DOOR. DEMO NOTES DO NOT INDICATE REMOVAL. NOTE PLAN DOES NOT INDICATE NEW DOOR. NO SPECIFICATIONS PROVIDED. CLARIFY.

Response: Existing door is to remain. Clean and oil chain for manual operation.

Question: Request: REFERENCE SHEETS A-109 AND A-110 REGARDING THE RELOCATED DOWNSPOUT. PROVIDE INFORMATION REGARDING THE LOCATION OF THE EXISTING STORM LINE FOR TIE-IN. NOTE: NEW CANOPY DOWNSPOUTS TURN OUT ON-GRADE.

Response: Exact location of existing stormline is unknown, however, the existing downspout on the west side terminates in a boot and would plan to tie back to that location.

Question: Request: REFERENCE SHEET A-110 (ROOM 101 AND GRAPHIC LEGEND). THE GRAPHIC LEGEND AND NOTES IN ROOM 101 INDICATE PROJECTION SCREEN. PROVIDE SPECIFICATIONS.

Response: See revision attached for projection screen basis of design.

Question: Request: THERE ARE CONFLICTS BETWEEN THE PLANS (SHEET A450) AND THE SPECIFICATIONS (SECTION 105113).

Response: See attached revised specification section.

Question: Are the locker welded metal locker or knock down lockers?

Response: See attached revised specification section.

Question: The specification indicate double tier – plans indicate triple tier.

Response: Triple tier – see attached revised specification section.

Question: Specifications call for shelves in the lockers. Shelves are not available for triple tier lockers.
Response: See attached revised specification section.

Question: Plans show flat tops. Specifications indicate both continuous sloping tops and individual sloping tops.
Response: See attached revised specification section.

Question: Plans indicate metal bases. Specifications do not provide for any base material.
Response: See attached revised specification section.

Question: Finish –select baked enamel or powder coat.
Response: See attached revised specification section.

Question: Is roofing work involved in this renovation?
Response: There is not traditional roofing work, there are two new metal canopies and there is single ply on the interior enclosed sections to separate the conditioned from unconditioned spaces. (see sheet A-302)

Question: What is the budget for this project?
Response: Current budget is \$350,000.

Question: Can the existing electrical panel be reused as one of the panels scheduled in the new construction?
Response: No, the existing electrical panel cannot be reused as it is a “lower end” loadcenter and is single phase without sufficient capacity to serve the new loads. The design requires three-phase panelboards rather than single phase loadcenters.

Question: Can the existing AHU and condensing unit be reused for one of the new systems shown in the new construction?
Response: No, that unit is oversized for the new zoning of the spaces.

Question: Can the existing exit lights be reused in the new construction?
Response: No, all exit lights are to be new as specified.

Question: Is there an asbestos report on the building?
Response: Asbestos was abated, flooring removed and building cleaned for mold and mildew.

Question: What are the dimensions of the visual display board scheduled for Classroom 101?
Response: See revision (10’ x 4’ marker board with 4’ x 4’ tackboard)

Question: Are the Wireless Access point and Network Switch Owner furnished or contractor furnished? There are conflicting notes on sheets T-502, T-503 and T-601.
Response: See revised drawings based on new Owner information, equipment and location indicated. Owner will provide but contractor will install 48 port Cisco POE switch and Cisco 3700 access point.

Question: What are the specs on the WAP if Contractor Furnished?
Response: Owner furnished, contractor installed.

Question: Can Ortronics be substituted for Panduit for the Structured Cable connectivity?
Response: Yes, per owner direction Ortronics shall be utilized. Fog white ortronics jacks with dark gray icons.

Question: What is the model of the Owner Furnished Projector?
Response: Owner furnished projector is Epson 99HW. Contractor to provide pan type projector mount, see revised reflected ceiling drawing.

Question: Where is the location of the Mechanical/Electrical room that the voice backbone distribution block is to be mounted?
Response: This has been revised based on new direction from Owner. Mount voice backbone protector in back of cabinet, patch panel to be installed within cabinet.

Question: The telecommunication drawings reference the specifications for clarification, Is there a copy of Division 27 specifications for this project?
Response: Clarified.

Question: The CP details call for a fiber optic patch panel but the Single line diagram shows a Cat 6 cable tie-in to the existing service. Where does the Cat 6 tie cable tie-in to the existing service?
Response: See revised sheets. Service tie-in was previously unknown.

Question: Is the fiber patch panel needed?
Response: Clarified in revised drawings. Fiber patch panel will be required in add alternate (underground tie to building 5 handhole).

Question: Request: Date Required: REFERENCE SHEET E-104. THIS SHEET SHOWS A GULF POWER PAD MOUNTED TRANSFORMER. NO OTHER PAGES REFERENCE REPLACEMENT OF THE TRANSFORMER. CLARIFY.
Response: Location of transformer and all Gulf Power requirements including point of attachment, metering, transformer pad, etc shall be verified by the Contractor with Gulf Power. For bidding purposes, assume underground service length shall be 150' from padmounted transformer to main panel.

Question: Requested: THE ELEVATION 2/A-201 CALLS FOR A NEW ROLL UP DOOR. WE DO NOT FIND THIS DOOR ON THE DOOR SCHEDULE NOR IN THE SPECS. PLEASE PROVIDE THE INFORMATION FOR THIS DOOR.
Response: Existing door is to remain. Clean and oil chain for manual operation.

AMENDMENT REPORT

Report for Amendment 1:
Welding Shop Renovations
Pensacola, Florida 32501
Date of Amendment: June 9, 2016



A. Response to Bidders Questions:

See attached responses. These are all questions received prior to deadline.

B. Clarifications:

1. In addition to these responses, please find the attached revisions:
 - a. Specification sections 012300 AND 105113 and BID FORM 00410.
 - b. Specifications: addition of appendix of anticipated owner furnished equipment.
 - c. Revised (or added) drawings A-110, A-150, P-001, P-201, E-103, E-104, T-100, T-101, T-501, T-502, T-503 and T-601.

End of Amendment Report

SECTION 004100 - BID FORM

TO: **District Board of Trustees
Pensacola Junior College, Florida
1000 College Boulevard
Pensacola, Florida 32504**

REFERENCE: **WELDING SHOP RENOVATION
PENSACOLA JUNIOR COLLEGE - PENSACOLA CAMPUS**

Gentlemen:

The undersigned, hereinafter called "Bidder", having visited the site of the proposed Project and having become familiar with the local conditions, nature and extent of the Work, and having examined carefully the drawings and the Project Manual, proposes to furnish all labor, material, equipment and other items, facilities, and services for the proper execution and completion of the above referenced project, in full accordance with the Contract Documents prepared by Bullock Tice Associates, 909 E Cervantes Street, Pensacola, FL 32501 in full accordance with the Invitation to Bid, Instruction to Bidders, Agreement, Technical Specification, and all other documents relating thereto on file in the Office of the Architect and if awarded the Contract, to complete said Work within the time limits specified for the following bid price.

PROVIDE NUMERICAL AND WRITTEN DOLLAR AMOUNTS

BASE BID: _____ (\$ _____)
Dollar Amount Included in Base Bid

ALTERNATE BID NO. 1: _____ (\$ _____)
Dollar Amount to ADD or SUBTRACT to/from Base Bid (Circle ADD or SUBTRACT)

ALTERNATE BID NO. 2: _____ (\$ _____)
Dollar Amount to ADD or SUBTRACT to/from Base Bid (Circle ADD or SUBTRACT)

ALTERNATE BID NO. 3: _____ (\$ _____)
Dollar Amount to ADD or SUBTRACT to/from Base Bid (Circle ADD or SUBTRACT)

There is enclosed a certified check, cashier's check, treasurer's check, bank draft, or Bid Bond in the amount of not less than five percent (5%) of the Base Bid payable to Pensacola Junior College, as a guarantee for the purpose set out in the Instructions to Bidders.

The bidder hereby agrees that:

- a. The above Proposal shall remain in full force and effect for a period of thirty (30) calendar days after the time of the opening of this Proposal and that the Bidder will not revoke or cancel this Proposal or withdraw from the competition within the said thirty (30) calendar days.
- b. In the event the contract is awarded to this Bidder, the Bidder will enter into a formal written Agreement with the Owner in accordance with the accepted bid within ten (10) calendar days after said agreement is submitted to the Bidder and will furnish to the Owner a Performance Bond and a Labor and Material Payment Bond with good and sufficient sureties, satisfactory to the Owner, in the amount of 100% of the accepted bid, on the forms and terms required in the construction documents. The Bidder further agrees that in the event of the bidder's default or

breach of any of the agreements of this Proposal, the bid deposit shall be forfeited as liquidated damages.

- c. The Bidder must agree to commence work within ten (10) calendar days after the written "Notice to Proceed" and substantially complete the work within ninety 90 consecutive calendar days. Bidder must further agree to fully complete the work, including any and all punch list items within thirty (30) calendar days from the date of substantial completion. The number of days allowed for construction includes an allowance for time missed due to inclement weather.
- d. Liquidated damages shall be assessed against the final payment in the amount of \$850.00 for each consecutive calendar day the Contractor is late in achieving Substantial Completion and \$425.00 for each consecutive day the Contractor is late in achieving Final Completion.
- e. The Contractor shall list on a separate page the 'List of Subcontractors' and submit the list with his bid as required by 00 21 13, Page 2.
- f. All work shall comply with applicable codes, specifications, local ordinances and industry standards including, but not limited to the handling, removal, and disposal of fluorescent bulbs and ballasts. Provide Pensacola State College with a copy of the "Waste Manifest".

Acknowledgment is hereby made or receipt to the following Addenda issued during the bidding period.

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Florida Construction Industries Licensing Board Certification

(Name of Holder)
(Certification Number)

Signed and sealed this _____ day of _____, 20_____.

Check accordingly: Firm Name: _____

We operate as _____

Individual Owner () By: _____

Partnership () Title: _____

Corporation () Address: _____

Telephone: _____ FAX: _____

Attachments: 00 41 01 – TRENCH SAFETY ADDENDUM
00 42 50 – DRUG-FREE WORKPLACE CERTIFICATION
00 41 03 – PUBLIC ENTITY CRIMES STATEMENT
00 43 13 – BID BOND

END

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Communications

1. Base Bid: Refer to communications (T) drawings. All clouded work on documents excluding sheet T-101 is base bid. Terminate conduit and cap at exterior of building.
2. Alternate: All clouded work indicated on sheet T-101 is alternative no. 1. Provide 2" underground conduits to new communicating handhole at building 5.

B. Alternate No. 2: Driveway

1. Base Bid: Remove section of fencing and provide chain link fence swing gate at opening.
2. Alternate: Remove existing tree, remove larger section of gate and provide vehicle access gate and bollard at corner of building. Provide new asphalt drive from road to edge of concrete canopy.

C. Alternate No. 3: Metal Siding

1. Base Bid: Retain existing metal siding on South elevation, provide new at infills on South and West elevations.
2. Alternate: Remove existing metal siding from South Elevation, salvage and reinstall on West elevation, and provide all new metal siding on South elevation (for color matching).

END OF SECTION 012300

SECTION 105113 - METAL LOCKERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Welded corridor lockers.

1.2 ACTION SUBMITTALS

- A. Product data.
- B. Shop Drawings: Include plans, elevations, sections, details, attachments to other work, and locker identification system and numbering sequence.
- C. Samples: For each color specified.

1.3 INFORMATIONAL SUBMITTALS

- A. Sample warranties.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of metal lockers that fail in materials or workmanship, excluding finish, within specified warranty period.
 - 1. Warranty Period for Welded Metal Lockers: Lifetime from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Accessibility Requirements: For lockers indicated to be accessible, comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines.
 - 1. Tops, Bottoms, and Intermediate Dividers: 0.024-inch nominal thickness, with single bend at sides.

2.2 WELDED LOCKERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Lyon metal lockers or comparable product by one of the following or other equal:
 - 1. Republic
 - 2. ASI
- B. Doors: One piece; fabricated from 0.075-inch nominal-thickness steel sheet; formed into channel shape with double bend at vertical edges and with right-angle single bend at horizontal edges.
 - 1. Reinforcement: Manufacturer's standard reinforcing angles, channels, or stiffeners for doors more than 15 inches wide; welded to inner face of doors.
 - 2. Door Style: Vented panel as follows:
 - a. Louvered Vents: No fewer than two louver openings at top and bottom for triple-tier lockers.
- C. Body: Assembled by welding body components together. Fabricate from unperforated steel sheet with thicknesses as follows:
 - 1. Tops, Bottoms, and Sides: 0.060-inch nominal thickness.
 - 2. Backs: 0.048-inch nominal thickness.
 - 3. Shelves: 0.060-inch nominal thickness, with double bend at front and single bend at sides and back.
- D. Frames: Channel formed; fabricated from 0.060-inch nominal-thickness steel sheet; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames. Form continuous, integral, full-height door strikes on vertical main frames.
- E. Hinges:
 - 1. Hinges: Manufacturer's standard, steel, continuous or knuckle type.
- F. Recessed Door Handle and Latch: Stainless-steel cup with integral door pull, recessed so locking device does not protrude beyond door face; pry and vandal resistant.
 - 1. Multipoint Latching: Finger-lift latch control designed for use with built-in combination locks or padlocks; positive automatic latching and prelocking.
 - a. Latch Hooks: Equip doors less than 48 inches high with two latch hooks; fabricated from 0.120-inch nominal-thickness steel sheet; welded to full-height door strikes; with resilient silencer on each latch hook.
 - b. Latching Mechanism: Manufacturer's standard, rattle-free latching mechanism.
 - 2. Single-Point Latching: Nonmoving latch hook with steel padlock loop that projects through recessed cup and is finished to match metal locker body. Equip each door with one latch hook.
- G. Identification Plates: Manufacturer's standard, etched, embossed, or stamped aluminum plates, with numbers and letters at least 3/8 inch high.

- H. Continuous Zee Base: Fabricated from manufacturer's standard thickness, but not less than 0.060-inch nominal-thickness steel sheet.
 - 1. Height: 4 inches.
- I. Recess Trim: Fabricated from 0.048-inch nominal-thickness steel sheet.
- J. Filler Panels: Fabricated from 0.048-inch nominal-thickness steel sheet.
- K. Materials:
 - 1. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications.
- L. Finish: Baked enamel or powder coat.
 - 1. Color: As selected by Architect from manufacturer's full range.

2.3 FABRICATION

- A. Fabricate metal lockers square, rigid, without warp, and with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch and free of sharp edges and burrs.
- B. Fabricate each metal locker with an individual door and frame; individual top, bottom, and back; and common intermediate uprights separating compartments. Factory weld frame members of each metal locker together to form a rigid, one-piece assembly.
- C. Welded Construction: Factory preassemble metal lockers by welding all joints, seams, and connections; with no bolts, nuts, screws, or rivets used in assembly of main locker groups. Factory weld main locker groups into one-piece structures. Grind exposed welds flush.
- D. Continuous Base: Formed into channel or zee profile for stiffness, and fabricated in lengths as long as practical to enclose base and base ends of metal lockers; finished to match lockers.
- E. Continuous Sloping Tops: Fabricated in lengths as long as practical, without visible fasteners at splice locations; finished to match lockers.
- F. Filler Panels: Fabricated in an unequal leg angle shape; finished to match lockers. Provide slip-joint filler angle formed to receive filler panel.
- G. Finished End Panels: Designed for concealing unused penetrations and fasteners, except for perimeter fasteners, at exposed ends of nonrecessed metal lockers; finished to match lockers.

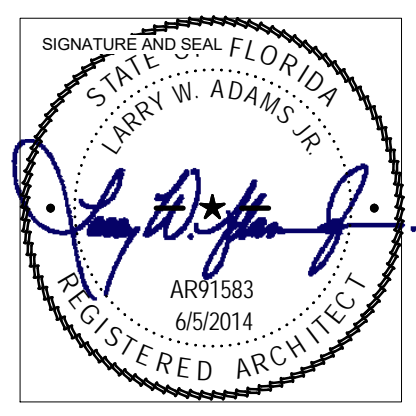
PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install lockers level, plumb, and true; shim as required, using concealed shims.

1. Anchor locker runs at ends and at intervals recommended by manufacturer, but not more than 36 inches o.c. Using concealed fasteners, install anchors through backup reinforcing plates, channels, or blocking as required to prevent metal distortion.
 2. Anchor single rows of metal lockers to walls near top and bottom of lockers.
- B. Welded Lockers: Connect groups together with standard fasteners, with no exposed fasteners on face frames.
- C. Trim: Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
1. Attach recess trim to recessed metal lockers with concealed clips.
 2. Attach filler panels with concealed fasteners.
 3. Attach sloping-top units to metal lockers, with closures at exposed ends.

END OF SECTION 105113



REVISIONS

1	6-8-16

BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

SHEET TITLE:
BUILDING NOTE PLAN

SHEET:
A-110

ROOM NO.	ROOM NAME	FLOOR MAT	BASE MAT	WALLS								CEILING	
				NORTH		EAST		SOUTH		WEST		MAT	COL
				MAT	COL	MAT	COL	MAT	COL	MAT	COL		
101	CLASSROOM	F1	R1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	P1	ACT.	A1
102	OFFICE	F1	R1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	P1	ACT.	A1
103	LOCKERS	F1	R1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	P1	ACT.	A1
104	HALLWAY	F1	R1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	P1	ACT.	A1
105	MECH/ELEC	F1	R1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	P1	N/A	
106	OFFICE	F1	R1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	P1	ACT.	A1
107	WOMEN'S ROOM	F1	R1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	WHITE
108	MEN'S ROOM	F1	R1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	WHITE
109	JAN	F1	R1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	P1	GYP.	WHITE
110	WELDING SHOP	F1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

FLOOR PLAN NOTES

- SEE SHEET A-001 FOR WALL CONSTRUCTION LEGEND.
- PROVIDE GYPSUM WALLBOARD CONTROL JOINTS @ 30'-0" OC MAX.
- PROVIDE BLOCKING IN WALLS FOR TOILET ACCESSORIES, AND OTHER WALL MOUNTED ITEMS.
- REFER TO WALL SECTIONS AND PLAN DETAILS FOR SPECIFIC WALL DIMENSIONS TO COLUMN LINE AND EXISTING CONSTRUCTION.
- PLAN DRAWINGS ARE GENERATED BY A CUT THROUGH THE WALL AT A HEIGHT OF APPROXIMATELY 48". COMPONENTS IN OR ON THE WALL ABOVE OR BELOW THIS PLANE MAY NOT BE IDENTIFIED IN THIS PLAN VIEW. SEE ELEVATION VIEWS FOR IDENTIFICATION OF ALL WALL COMPONENTS AND OPENINGS.

NOTE: ALL FURNISHINGS, WELDING BOOTHS AND EQUIPMENT ARE OWNER FURNISHED AND INSTALLED. ALL REQUIRED UTILITIES ARE INDICATED ON MEP DRAWINGS. LOCKERS AND TOILET ROOM ACCESSORIES WILL BE CONTRACTOR FURNISHED AND INSTALLED.

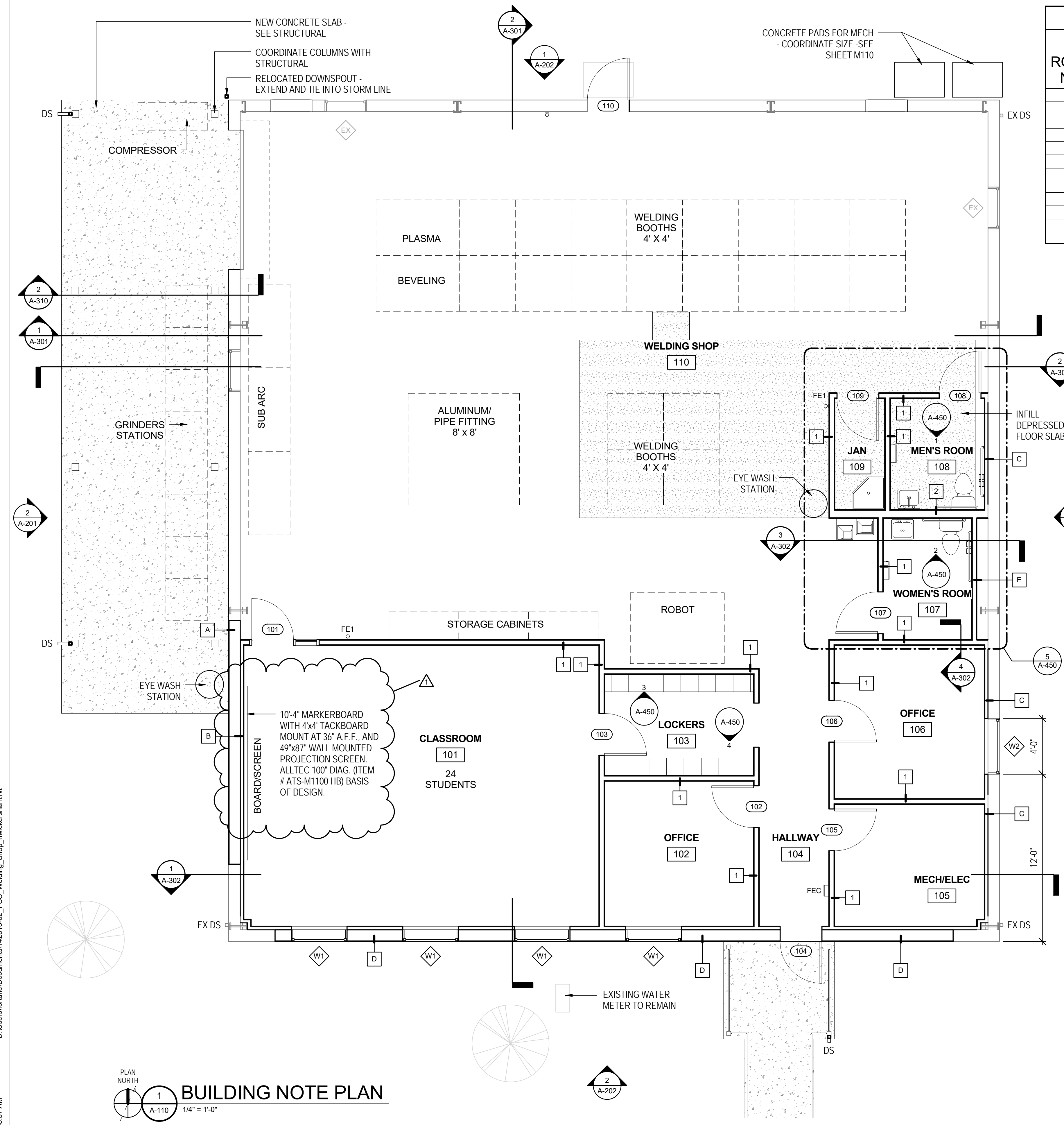
ROOM FINISH SCHEDULE

SW 6225 SLEEPY BLUE NEUTRAL WALLS - P1
SW 6228 REFUGE DOORS/FRAMES - P2
PATCRAFT SPHIRE 00410 CARPET - C1
ROPPE COLONIAL BLUE - B1
GYPSUM CEILING - GYP.
ACT 2x2 ARMSTRONG - A1
SEALED CONCRETE FLOORS - F1
ROPPE COLONIAL BLUE - B1

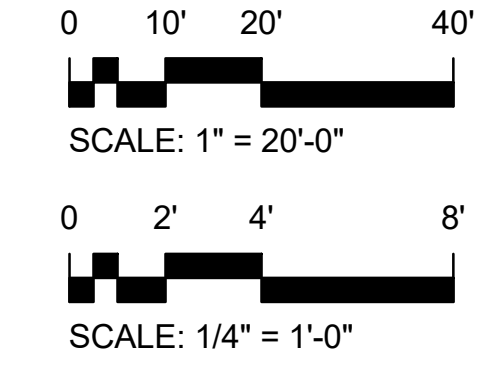
NOTE: ALL AREAS WITH GYPSUM WALLBOARD WALLS TO HAVE 4" RUBBER BASE: ROPPE COLONIAL BLUE

GRAPHIC LEGEND

ROOM NAME	ROOM NAME / NUMBER DESIGNATION
101	101
[Symbol]	NEW WALL CONSTRUCTION, SEE WALL CONSTRUCTION LEGEND, SHEET A-001
[Symbol]	EXISTING WALL
101	DOOR NUMBER
[Symbol]	EXISTING DOOR TO REMAIN
[Symbol]	WINDOW TYPE
[Symbol]	WALL TYPE
[Symbol]	FIRE EXTINGUISHER CABINET (SEMI-RECESSED) AND FIRE EXTINGUISHER
[Symbol]	FLOOR DRAIN
ELEV 11.00	FINISH FLOOR ELEVATION
KB	KNOX BOX, RECESSED
DS	NEW PREFINISHED METAL DOWNSPOUT
EX DS	EXISTING DOWNSPOUT
HC	HANDICAP ACCESSIBLE
PS	RECESSED CEILING MOUNTED PROJECTION SCREEN
WB	WHITE BOARD (4'X8')

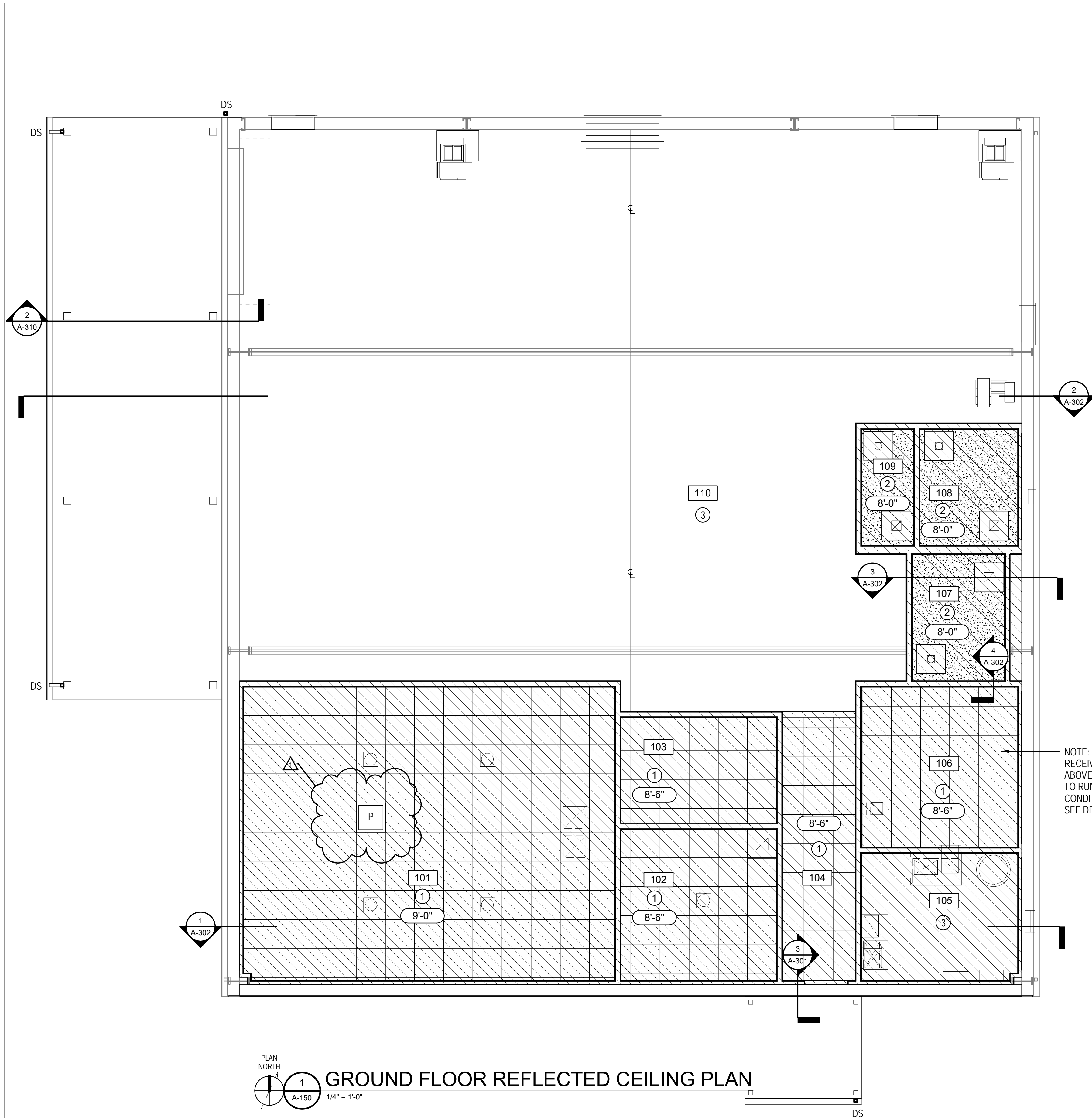


PLAN NORTH
BUILDING NOTE PLAN
1/4" = 1'-0"



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GROUND FLOOR REFLECTED CEILING PLAN

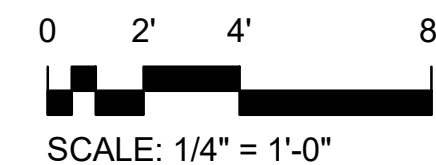
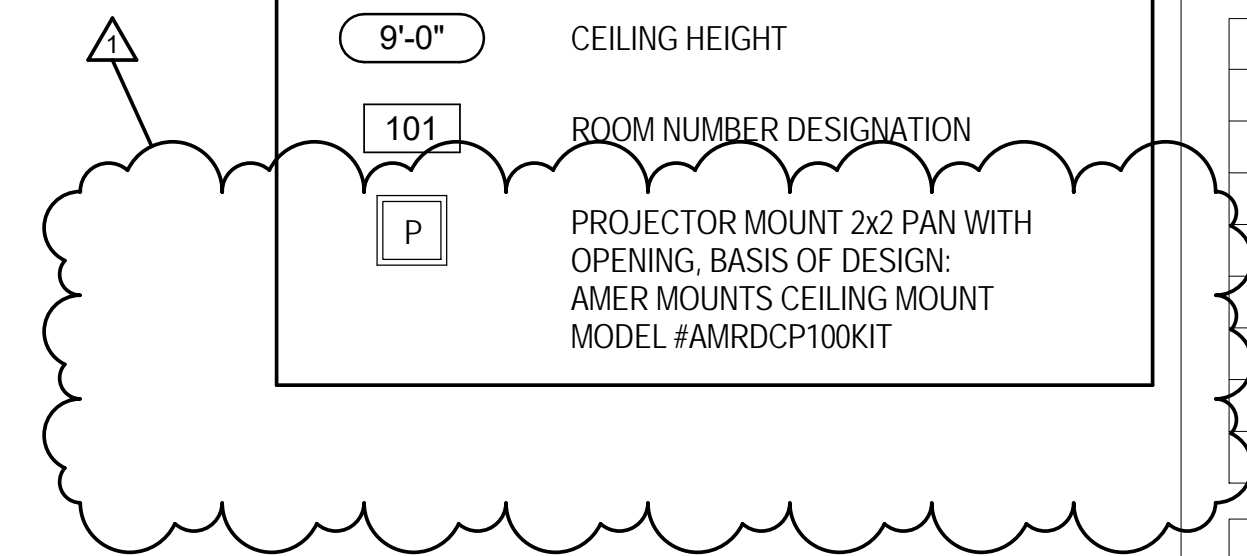
1/4" = 1'-0"

REFLECTED CEILING NOTES

1. ALL CEILING HEIGHTS ARE 9'-0" UNLESS NOTED OTHERWISE.
2. ALL HEADERS ARE TO BE 8" BELOW LOWEST ADJACENT CEILING UNLESS NOTED OTHERWISE.
3. PROVIDE MOISTURE RESISTANT GYPSUM WALL BOARD IN TOILET ROOMS.
4. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILING AT LOCATIONS REQUIRING MAINTENANCE ACCESS TO PLUMBING, MECHANICAL, AND ELECTRICAL COMPONENTS.
5. PROVIDE 2X4 ACOUSTICAL CEILING TILES IN ROOMS WHERE LAYOUT DOES NOT PERMIT AT LEAST A HALF 2X2 TILE.
6. ALL ELECTRICAL FIXTURES AND MECHANICAL VENTS SHALL BE CENTERED WITHIN CEILING TILES UNLESS NOTED OTHERWISE.

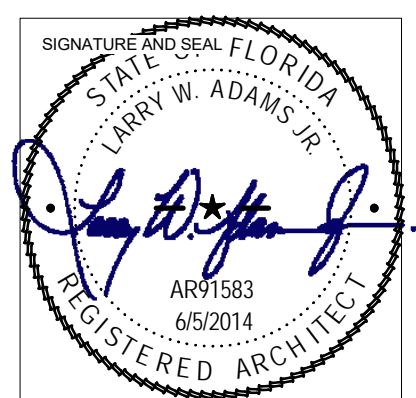
GRAPHIC LEGEND

- 2' X 2' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
- SUSPENDED GYPSUM BOARD CEILING (PAINTED)
- OPEN TO STRUCTURE ABOVE EXISTING CONDITIONS PAINT NOT REQUIRED
- 2 X 4 FLUORESCENT LIGHTING FIXTURE, SEE ELECTRICAL DRAWINGS
- FLUORESCENT LIGHTING FIXTURE, SEE ELECTRICAL DRAWINGS
- FLUORESCENT CEILING FIXTURE, SEE ELECTRICAL DRAWINGS
- LIGHTING FIXTURE (WALL MOUNTED), SEE ELECTRICAL DRAWINGS
- RECESSED LIGHTING FIXTURE, SEE ELECTRICAL DRAWINGS
- H.I.D. LIGHTING FIXTURE (RECESSED SOFFIT), SEE ELECTRICAL DRAWINGS
- EXTERIOR LIGHTING FIXTURE (WALL MOUNTED), SEE ELECTRICAL DRAWINGS
- CEILING DIFFUSER, SEE MECHANICAL DRAWINGS
- RETURN AIR GRILLE, SEE MECHANICAL DRAWINGS
- CEILING EXHAUST, SEE MECHANICAL DRAWINGS
- EXIT LIGHT, SEE ELECTRICAL AND LIFE SAFETY DRAWINGS FOR DIRECTIONAL INFORMATION
- VIDEO PROJECTOR MOUNT
- CEILING MOUNTED PROJECTION SCREEN (RECESSED)
- CEILING MOUNTED ACCESS PANEL, COORDINATE SIZE AND LOCATION W/ MECHANICAL DRAWINGS
- FIRE ALARM / MASS NOTIFICATION SYSTEM FLUSH MOUNTED CEILING SPEAKER, SEE ELECTRICAL DRAWINGS
- FIRE ALARM / MASS NOTIFICATION SYSTEM FLUSH MOUNTED CEILING SPEAKER WITH STROBE, SEE ELECTRICAL DRAWINGS
- INTRUSION ALARM SYSTEM PASSIVE INFRARED DETECTOR, SEE ELECTRICAL DRAWINGS
- LIGHTING CONTROL CEILING MOUNTED SENSOR, SEE ELECTRICAL DRAWINGS
- 9'-0" CEILING HEIGHT
- 101 ROOM NUMBER DESIGNATION
- P PROJECTOR MOUNT 2x2 PAN WITH OPENING, BASIS OF DESIGN: AMER MOUNTS CEILING MOUNT MODEL #AMRDCP100KIT



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 909 East Cervantes Suite B
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 AAC000174
 www.bullocktice.com
 Fax: 850.432.5208
 Phone: 850.434.5444

May 2, 2016



PSC WELDING SHOP

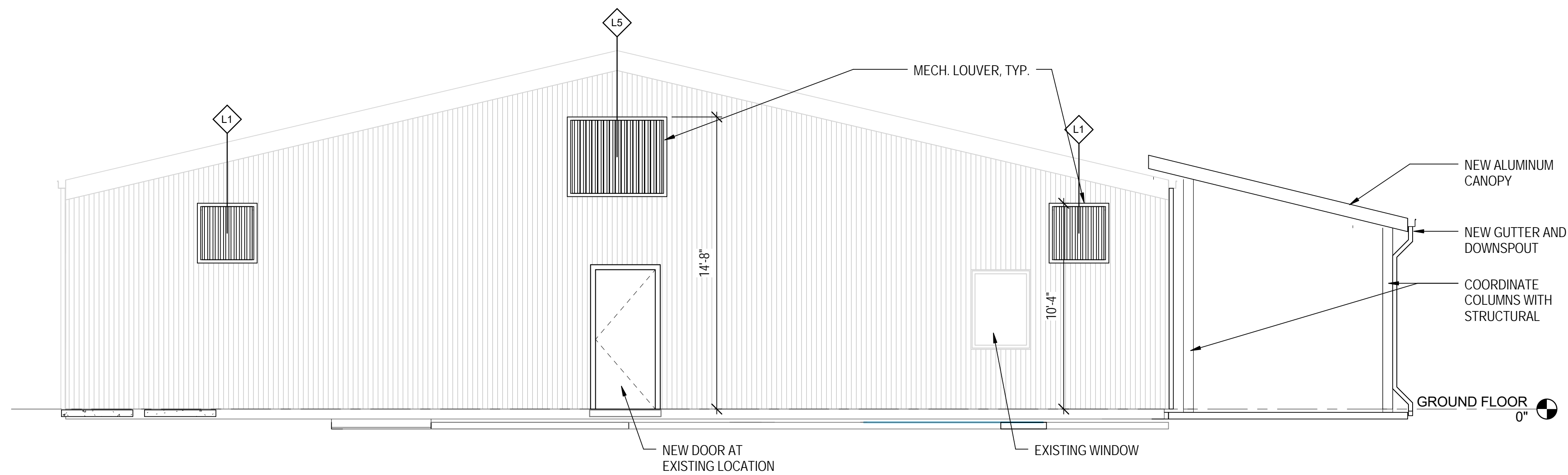
UNDERWOOD AVE. PENSACOLA, FL. 32504

REVISIONS	
1	6-8-16

BITA PROJECT NO: 142615.02
 SHEET DATE: 05/02/16

SHEET TITLE:
CEILING PLAN

SHEET:
A-150



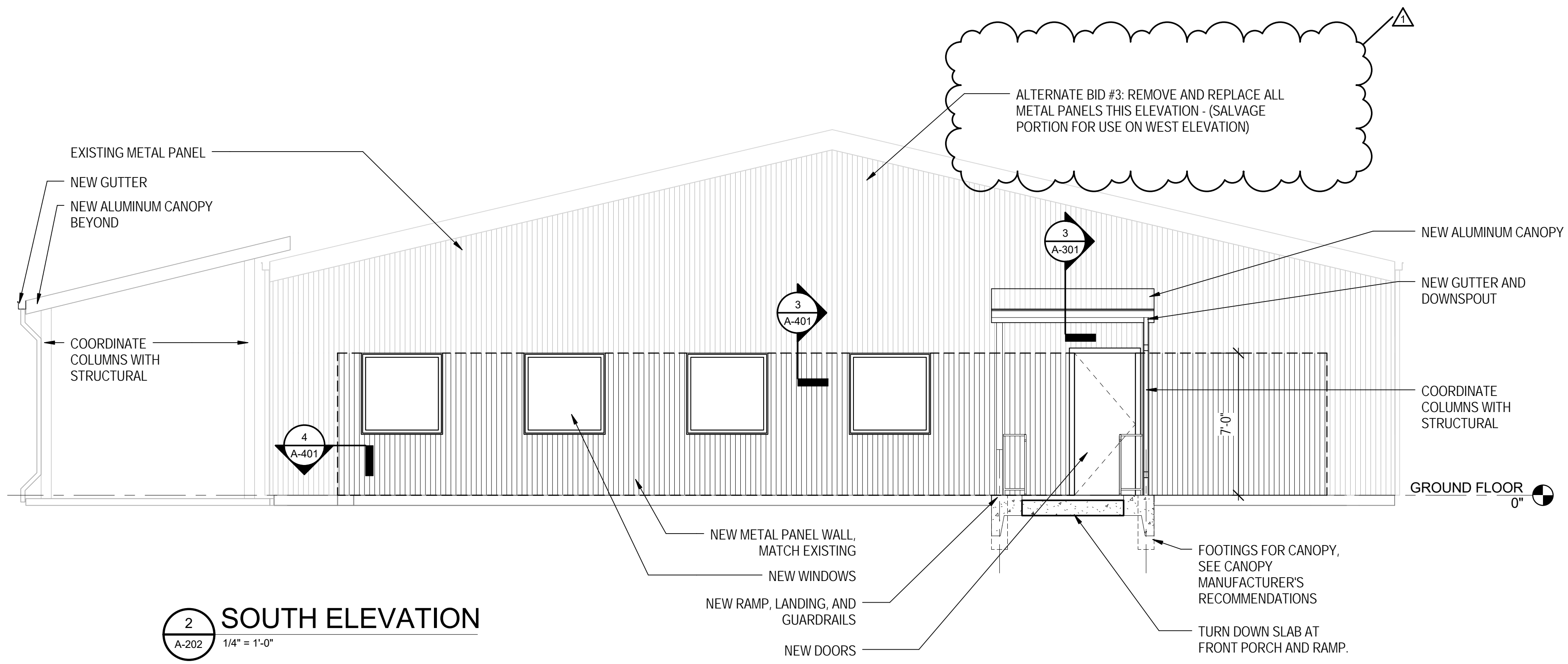
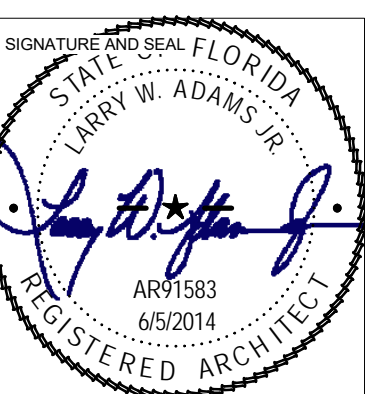
1 NORTH ELEVATION
A-202 1/4" = 1'-0"

- ### ELEVATION NOTES
1. FOR EXTERIOR COLOR SCHEDULE, SEE BELOW THIS SHEET.
 2. SEE ROOF PLAN A-140 FOR ALL ROOF SLOPE INFORMATION.
 3. IN ADDITION TO NOTED LOCATIONS, ALL INSIDE CORNERS AT CMU VENEER SHALL HAVE CONTROL JOINTS WITH BACKER ROD AND SEALANT (COLOR TO MATCH SPLITFACE VENEER)
 4. DOWNSPOUTS THAT EXTEND TO GROUND SHALL CONNECT TO UNDERGROUND STORMWATER PIPING.

BTA
...optimizing
design value
PLANNING
ARCHITECTURE
INTERIOR DESIGN
DESIGN BUILD

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May 2, 2016



2 SOUTH ELEVATION
A-202 1/4" = 1'-0"

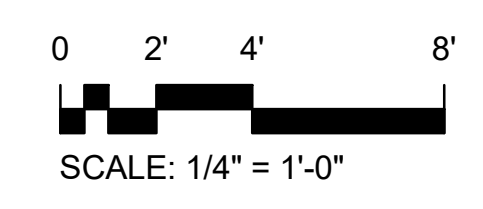
PSC WELDING SHOP
UNDERWOOD AVE. PENSACOLA, FL. 32504

REVISIONS	
1	6-8-16

BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

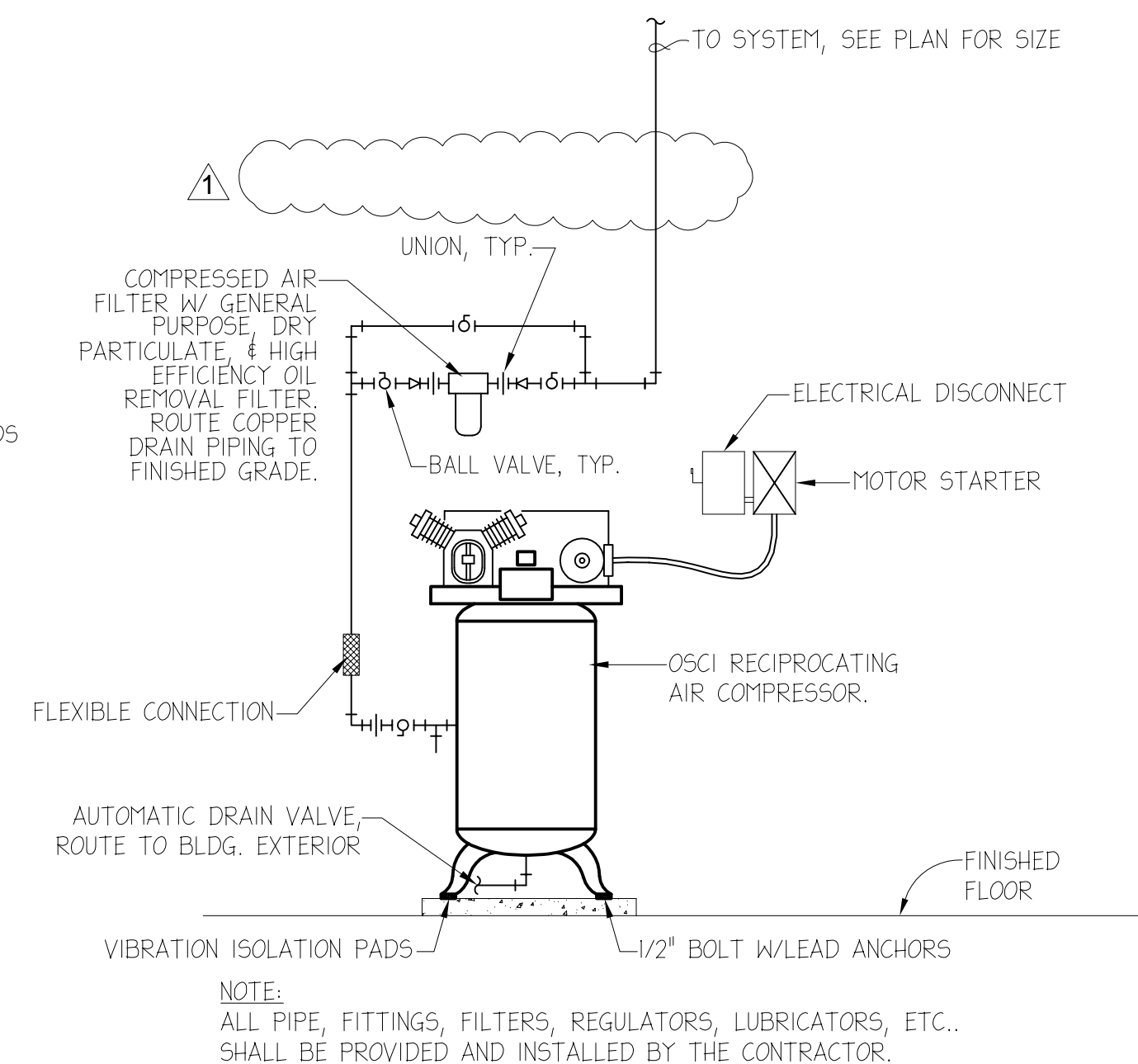
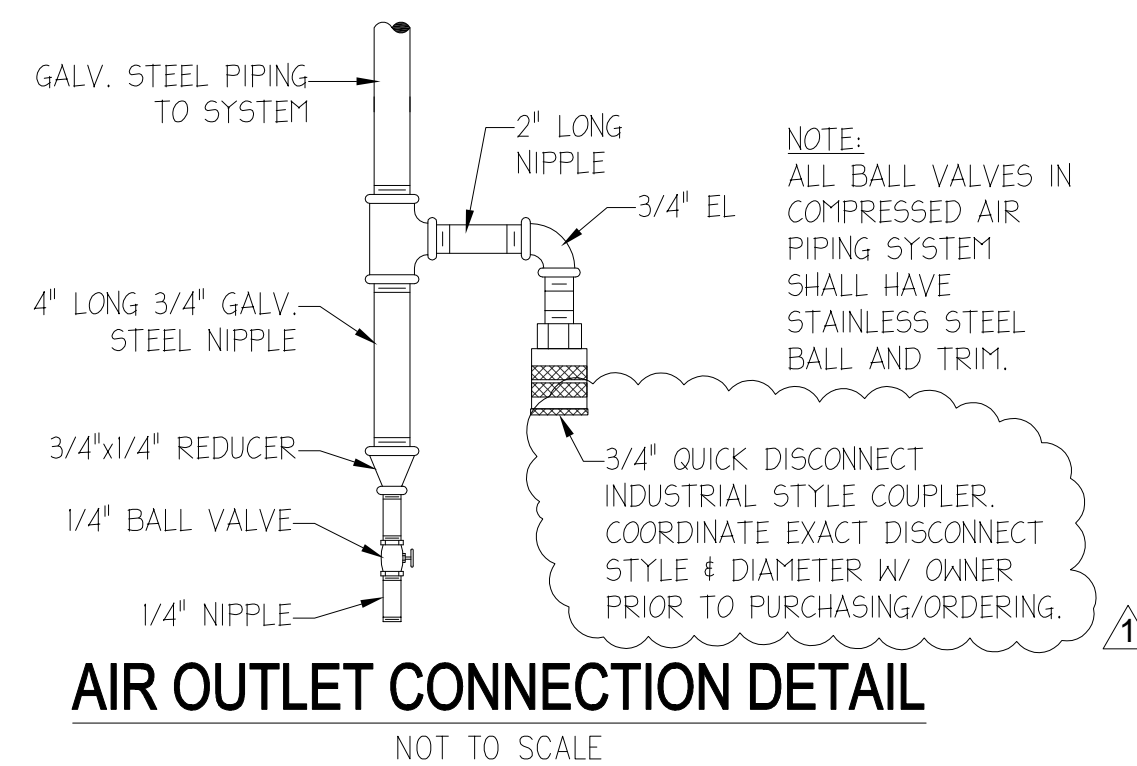
SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET:
A-202



General Plumbing Notes:

- THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM INTERFERENCE WITH OTHER TRADES.
- VERIFY EXACT PLUMBING FIXTURE ROUGH-IN AND FINAL HVAC EQUIPMENT REQUIREMENTS IN THE FIELD.
- ALL COMPRESSED AIR PIPE AND FITTINGS ABOVE FINISH FLOOR SHALL BE SCHEDULE 40 GALVANIZED STEEL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING ALL TRAPS, DRAINS, AND SUPPLIES WITH STOPS. FURNISH AND INSTALL PLUMBING FIXTURES INDICATED OR SPECIFIED, COMPLETE WITH ALL EQUIPMENT, FITTINGS, TRIM AND ACCESSORIES INDICATED OR SPECIFIED. EXPOSED WATER PIPING TO FIXTURES SHALL BE CHROME-PLATED BRASS, IPS. ADJUST WATER FLOW THROUGH ALL FIXTURES TO PROVIDE PROPER FLUSHING ACTION WITH THE LEAST AMOUNT OF WATER. FAUCETS SHALL HAVE UNDERDECK AND/OR ESCUTCHEON PLATES, IF REQUIRED, TO STABILIZE FAUCET WITHIN FIXTURE.
- COORDINATE ROUTING OF WATER SUPPLY, WASTE, AIR, & VENT PIPING WITH OTHER TRADES.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND EXCAVATIONS.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE.
- ACCESS PANEL: WHERE FITTINGS REQUIRING MAINTENANCE OR ISOLATION VALVES ARE LOCATED ABOVE NON-ACCESSIBLE CEILINGS OR SOFFITS (EXAMPLE PLASTER, METAL, OR GYPSUM BOARD), INSTALL AN ALL STEEL CEILING ACCESS DOOR IN CEILING DIRECTLY BELOW EACH SUCH FITTING/VALVE. PROVIDE ACCESS DOORS FACTORY PRIMED FOR PAINTING. FINISH PAINT WITH TWO COATS ENAMEL AFTER INSTALLATION TO MATCH CEILING, SOFFIT, OR WALL COLOR/SHEEN.
- FLOOR DRAIN/SINK SPECIAL NOTE: IN ALL SPACES WHERE FLOOR DRAINS/SINKS ARE SHOWN, DRAINS SHALL BE SET AT LOW POINTS OF FLOOR WITH GRADUAL AND EVEN FLOOR SLOPE TO DRAIN. POCKETS IN THE FLOOR SHALL NOT BE ALLOWED AROUND FLOOR DRAINS/SINKS. PRIOR TO SETTING FLOOR DRAIN/SINK ELEVATIONS, THE PLUMBING CONTRACTOR SHALL REVIEW THE FLOOR SLOPES SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, AND SHALL CLOSELY COORDINATE TOP OF DRAIN ELEVATIONS WITH THE GENERAL CONTRACTOR AND THE FLOOR SLAB INSTALLER. LIQUIDS SHALL POSITIVELY FLOW TO FLOOR DRAINS/SINKS IN ALL LOCATIONS - STANDING WATER AT ANY POINT SHALL NOT BE ACCEPTABLE. COORDINATE FINAL LOCATION & ELEVATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL FLOOR DRAINS & FLOOR SINKS NOT RECEIVING SINK FIXTURE DRAINAGE SHALL HAVE A 6" DEEP SEAL AND TRAPS WITH TRAP PRIMERS AS REQUIRED BY CODE. CONTRACTOR TO ENSURE THAT EACH FLOOR DRAIN/SINK DOES NOT EXTEND ABOVE THE ADJACENT FLOOR SURFACE. AN ACCESS PANEL MUST BE INSTALLED IF THE TRAP PRIMER FITTING IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT. CONTRACTOR MAY INSTALL WATER CLOSET FLUSH VALVE OR LAVATORY TYPE PRIMER FITTINGS TO SERVE RESTROOM FLOOR DRAINS. INSTALL IN INCONSPICUOUS LOCATIONS. CONTRACTOR TO ENSURE THAT EACH TRAP PRIMER VALVE IS CLEANED AND FREE OF DEBRIS JUST PRIOR TO PROJECT COMPLETION.
- PROVIDE STOPS AND SHOCK ABSORBERS IN ACCORDANCE WITH PDI AND ASSE 1010. AN ACCESS PANEL MUST BE INSTALLED IF WATER HAMMER ARRESTOR IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT.
- PROVIDE AN ACCESS PANEL IF ISOLATION/SHUTOFF VALVE OR FITTING REQUIRING MAINTENANCE IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. ALL VALVES/SERVICABLE FITTINGS SHALL BE LOCATED WITHIN REACH OF ACCESS DOOR OR LAY-IN CEILING SYSTEM (18" MAX.). COORDINATE OPENINGS WITH ARCHITECT.
- PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL CONNECTIONS.
- INSULATE DOMESTIC WATER AND WASTE PIPING UNDER ALL LAVATORIES AND SINKS USING "LAVGUARD2 E-Z SERIES" MOLDED VINYL PIPING COVERS. COVER ALL PIPING, FITTING, VALVES, AND TRAPS EXPOSED TO VIEW.
- ROUTE ALL PIPING AS HIGH AS POSSIBLE AND SO AS TO CAUSE MINIMAL INTERFERENCE FOR MAINTENANCE OF ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL WATER SUPPLY PIPING IS ROUTED ABOVE THE CEILING AND BELOW ATTIC/ROOF INSULATION.
- PROVIDE SHUTOFF VALVE TO EACH SILLCOCK WITH VALVE IDENTIFICATION AS REQUIRED BY CODE.
- ALL P-TRAPS SHALL BE 17-GAGE CAST BRASS.
- CONTRACTOR TO VERIFY ALL LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECTURAL DRAWINGS.
- FIRE-STOP ALL PIPE PENETRATIONS OF FIRE AND SMOKE RATED ENCLOSURES. SEE ARCHITECTURAL DWGS. AND COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD.
- PVC WILL NOT BE ALLOWED IN RETURN AIR PLENUMS.
- PROVIDE VENT THROUGH ROOF MINIMUM 10'-0" FROM HVAC INTAKE.
- MARK CEILING TILES AT VALVES & EQUIPMENT AS DIRECTED BY OWNER.
- ALL WASTE PIPING SHOWN IS BELOW AN EXISTING SLAB. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL REQUIRED DEMOLITION, NEW WORK, AND REQUIRED BORING UNDER EXISTING SLABS AND STRUCTURES, WHERE SAW CUTTING IS REQUIRED, PATCH FLOOR AFTER NEW WORK IS INSTALLED TO MATCH SURROUNDING SLAB & FINISHED FLOORING. THIS TO INCLUDE SOIL TREATMENT BELOW SLAB.
- EXISTING UTILITY INFORMATION WAS DETERMINED THROUGH NON-DESTRUCTIVE SITE INVESTIGATION AND ORIGINAL CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL VERIFY ALL EXISTING WASTE AND WATER SUPPLY PIPE SIZES, LOCATIONS, AND DIRECTIONS OF FLOW IN THE FIELD PRIOR TO CONNECTING ANY NEW PIPING. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- CONTRACTOR TO PROVIDE NECESSARY WORK TO ENSURE ALL EXISTING STORM/WASTE/WATER PIPES ARE COMPLETELY FREE OF BLOCKAGES BEFORE CONNECTING NEW SYSTEM TO EXISTING.
- PATCH ALL ABANDONED/UNUSED WALL/FLOOR/ROOF PENETRATIONS TO MATCH SURROUNDING.
- COORDINATE CONNECTIONS TO ALL MACHINES PROVIDED BY THE FABRICATION EQUIPMENT SUPPLIER, INCLUDING ANY NECESSARY FITTINGS SUCH AS PRESSURE REDUCING VALVES, CONNECTION TYPES, SHUTOFF VALVES, ETC. COORDINATE ALL REQUIREMENTS/CONNECTIONS WITH THE FABRICATION EQUIPMENT SUPPLIER & MANUFACTURER IN THE FIELD. PROVIDE ALL FITTINGS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY SHOWN OR NOT. THIS TO INCLUDE PIPE STANDS TO SUPPORT VERTICAL PIPING NOT ADJACENT TO WALL.



COMPRESSED AIR SYSTEM PIPING DIAGRAM
NOT TO SCALE

Plumbing Legend:

—————	WASTE PIPING. SIZED AS SHOWN.	—○—	PIPING TURNED DOWN	FS	FLOOR SINK W/ HALF GRATE, BEEHIVE STRAINER, & TRAP PRIMER UNLESS OTHERWISE NOTED. OUTLET SIZE AS SHOWN. ZURN 1900 OR APPROVED EQUAL.
-----	WASTE VENT PIPING (V). SIZED AS SHOWN.	FPWH/VB	3/4" FREEZEPROOF WALL HYDRANT WITH VACUUM BREAKER.	VTR	VENT THROUGH ROOF. SIZED AS SHOWN.
-----	COLD WATER PIPING (CW). SIZED AS SHOWN.	HB/VB	3/4" CHROME PLATED HOSE BIBB WITH VACUUM BREAKER & LOOSE KEY OPERATOR	EW#	ELECTRIC WATER HEATER. SEE SCHEDULE AND INSTALLATION DETAIL.
-----	HOT WATER PIPING (HW). SIZED AS SHOWN.	HB	3/4" HOSE BIBB WITH VACUUM BREAKER	P-#	PLUMBING FIXTURE NUMBER. SEE SCHEDULE ON THIS SHEET.
---SD---	STORM DRAIN PIPING. SIZED AS SHOWN.	WCO	WALL CLEANOUT	AAV	AIR ADMITTANCE VALVE
---CA---	COMPRESSED AIR PIPING. SIZED AS SHOWN.	FCO	FLOOR CLEANOUT	A.F.F.	ABOVE FINISHED FLOOR
---T---	1/2" TRAP PRIMER VALVE PIPING.	GCO	GROUND CLEANOUT	N.O.	NORMALLY OPEN
—○—	P-TRAP	FD	FLOOR DRAIN W/ FLUSH STRAINER. OUTLET SIZE AS SHOWN. ZURN 415 "TYPE B" OR APPROVED EQUAL.	N.C.	NORMALLY CLOSED
—○—	BALL VALVE FOR SHUT-OFF SERVICE.	FD-R	FLOOR DRAIN W/ RECESSED STRAINER. OUTLET SIZE AS SHOWN. ZURN 415 "TYPE I" (7-1/2" DIA. TOP) OR APPROVED EQUAL. TOP OF RECESSED STRAINER TO BE FLUSH W/ FLOOR.	FV	FIELD VERIFY
—○—	BALANCING VALVE. TOUR & ANDERSSON MODEL STAD OR APPROVED EQUAL.			◆	CONNECTION OF NEW TO EXISTING
—N—	CHECK VALVE.				
—○—	PIPING TURNED UP				
—○—	PIPING TURNED DOWN				

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK #	FIXTURE TYPE	MANUFAC. & MODEL	CONNECTIONS			REMARKS
			WASTE	CW	HW	
P-1	WATER CLOSET	KOHLER -	3"	1/2"	-	FLOOR MOUNTED, TANK-TYPE, ELONGATED WATER CLOSET, 1.6GPF, W/ OPEN FRONT SEAT WITHOUT COVER. (HC)
P-2	WALL MOUNTED LAVATORY (HC)	KOHLER -	1-1/4" X 1-1/2"	1/2"	1/2"	VIT. CHINA, PROVIDE WITH CONCEALED ARMS SUPPORT AND ZURN Z8101 CENTERSET FAUCET, METAL LEVER HNDLS., GRID STRNR., & OFFSET P-TRAP. PROVIDE POINT OF USE MIXING VALVE FOR LAVATORY. MOUNT BELOW FIXTURE AND ADJUST VALVE TO NOT EXCEED 110".
P-3	JANITOR'S SERVICE SINK	STERN WILLIAMS HL-1800-BP	3"	1/2"	1/2"	24"x24"x12" DEEP TERRAZZO SERVICE SINK WITH 6" FRONT DROP, STAINLESS STEEL INTEGRAL CAST CAP, GRID STRAINER, SPLASH GUARDS, AND T45 BRASS B-0665-BSTR W/ VACUUM BREAKER & SPRING CHECKS.
P-4	ELECTRIC WATER COOLER (HC)	HALSEY-TAYLOR HTV8BL-Q	1-1/2"	1/2"	-	SELF CONTAINED, HI-LOW DESIGN, 8.8 GPH CAPACITY (80°F AMB. AIR), 4.0 FULL LOAD AMPS, 370 RATED WATT USAGE.
P-5	EMERGENCY EYE/FACE WASH	-	1-1/2"	1/2"	-	WALL MOUNTED EYEWASH. FIXTURE TO HAVE STAINLESS STEEL BOWL, SPRAY HEADS, INLET STRAINER, & PUSH HANDLE.

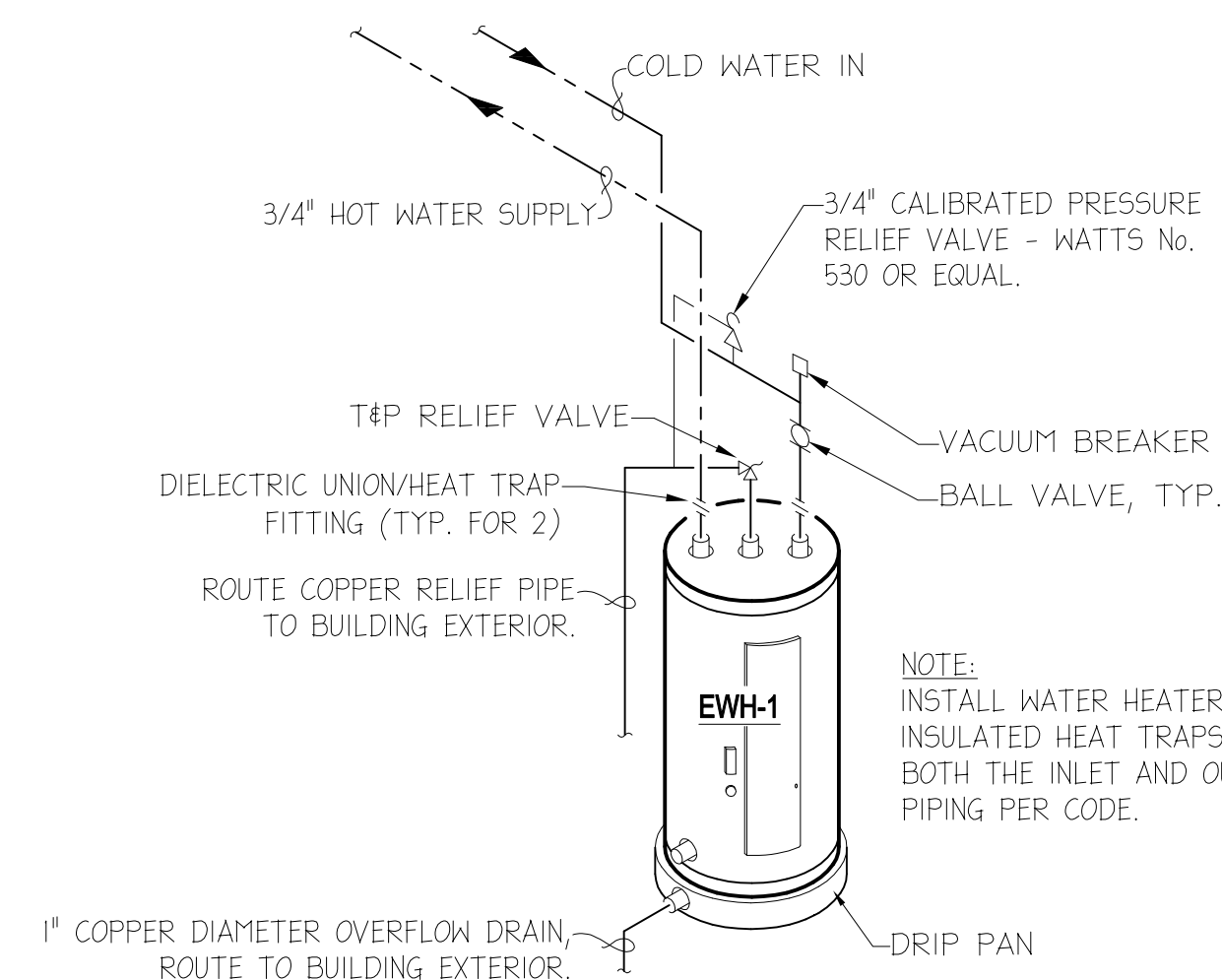
- (HC) DENOTES FIXTURE TO BE DESIGNED, MANUFACTURED AND MOUNTED FOR HANDICAPPED ACCESSIBILITY.
- PROVIDE MANUFACTURERS AND MODEL NUMBERS LISTED ABOVE OR APPROVED EQUALS IN STRICT ACCORDANCE WITH ARCHITECTURAL INTERIOR & RESTROOM ELEVATIONS FOR PROPER MOUNTING/FIXTURE HEIGHTS.

ELECTRIC WATER HEATER SCHEDULE

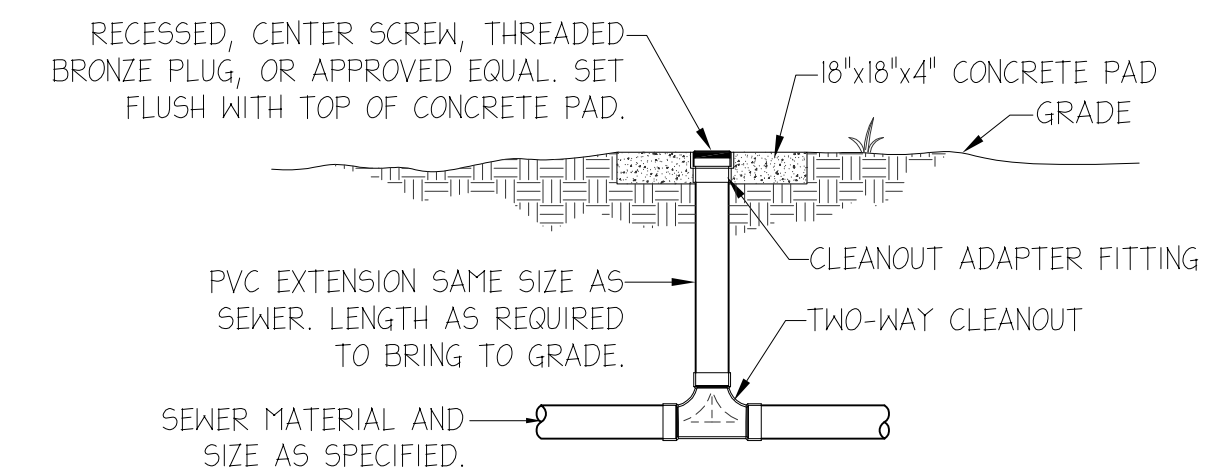
MARK	GAL.	ELECTRICAL DATA				REMARKS ①②③
		VOLTS	PHASE	HERTZ	KW	
EW#-1	40	208	1	60	4.5/4.5	EXISTING

WATER HEATER SCHEDULE NOTES:

- EW# DESIGN BASED ON COMMERCIAL ELECTRIC WATER HEATER OR APPROVED EQUAL.
- FIELD VERIFY AVAILABLE VOLTAGE/ PHASE PRIOR TO ORDERING.
- SET TEMPERATURE TO 130° UNLESS OTHERWISE NOTED

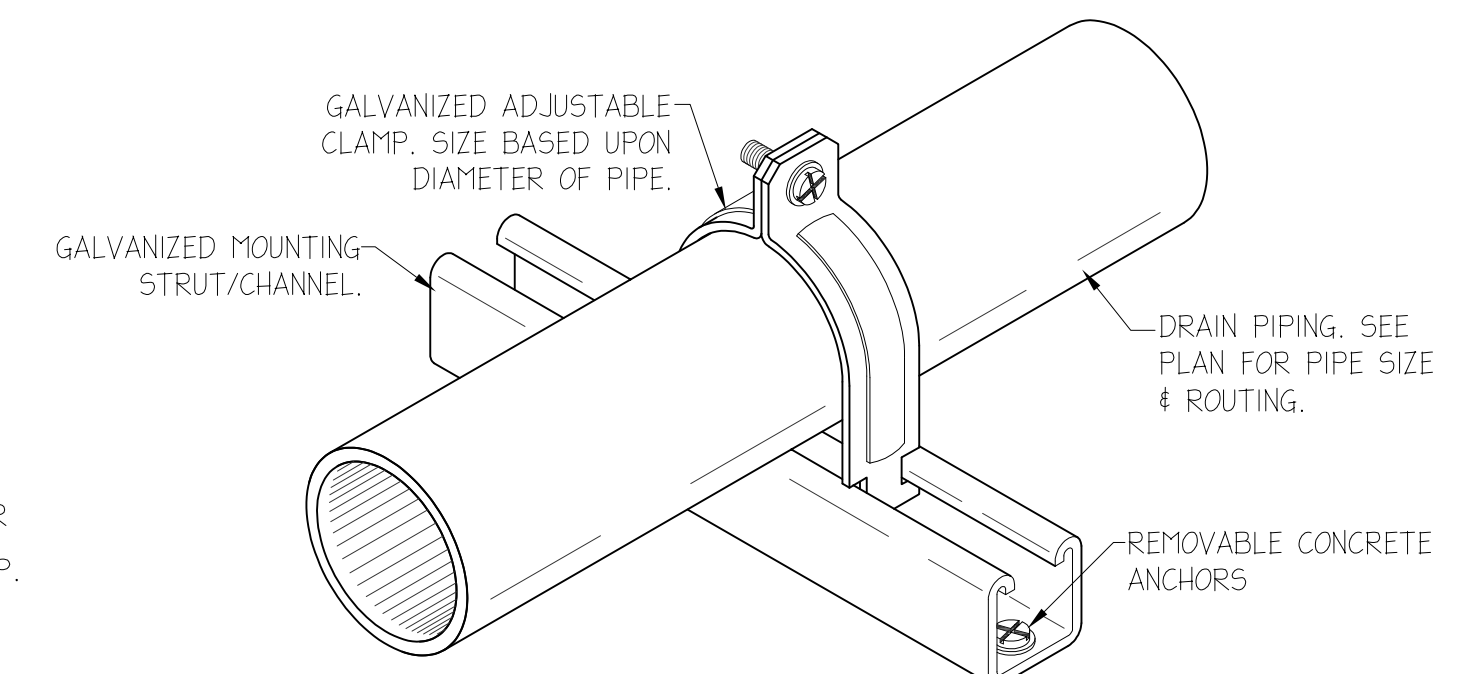


ELECTRIC WATER HEATER INSTALLATION DETAIL
NOT TO SCALE



GROUND LEVEL CLEANOUT DETAIL

NOT TO SCALE



DRAIN PIPING SUPPORT DETAIL
NOT TO SCALE

Premier
Engineering Group, LLC
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Florida Certificate of Authorization #95908
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Premier Project #15063

BTA
...optimizing design value

PLANNING ARCHITECTURE INTERIOR DESIGN DESIGN BUILD

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SIGNATURE AND SEAL

PSC WELDING SHOP

UNDERWOOD AVE., PENSACOLA, FL. 32504

REVISIONS:	
6/8/15	ADDENDUM 1

BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

SHEET TITLE:
PLUMBING NOTES, DETAILS, & LEGEND

SHEET:
P-001

REVISIONS:	
6/8/15	ADDENDUM 1

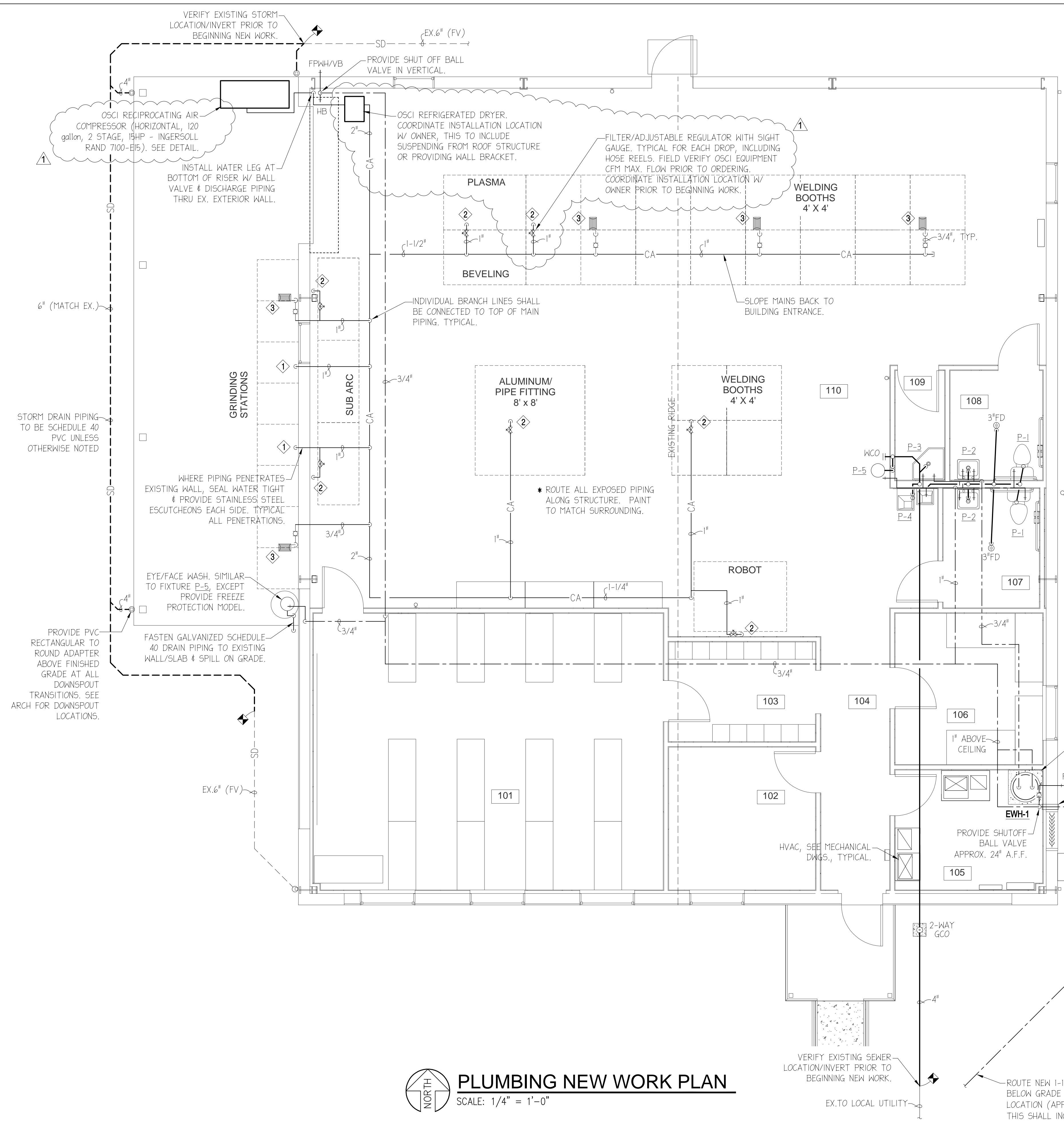
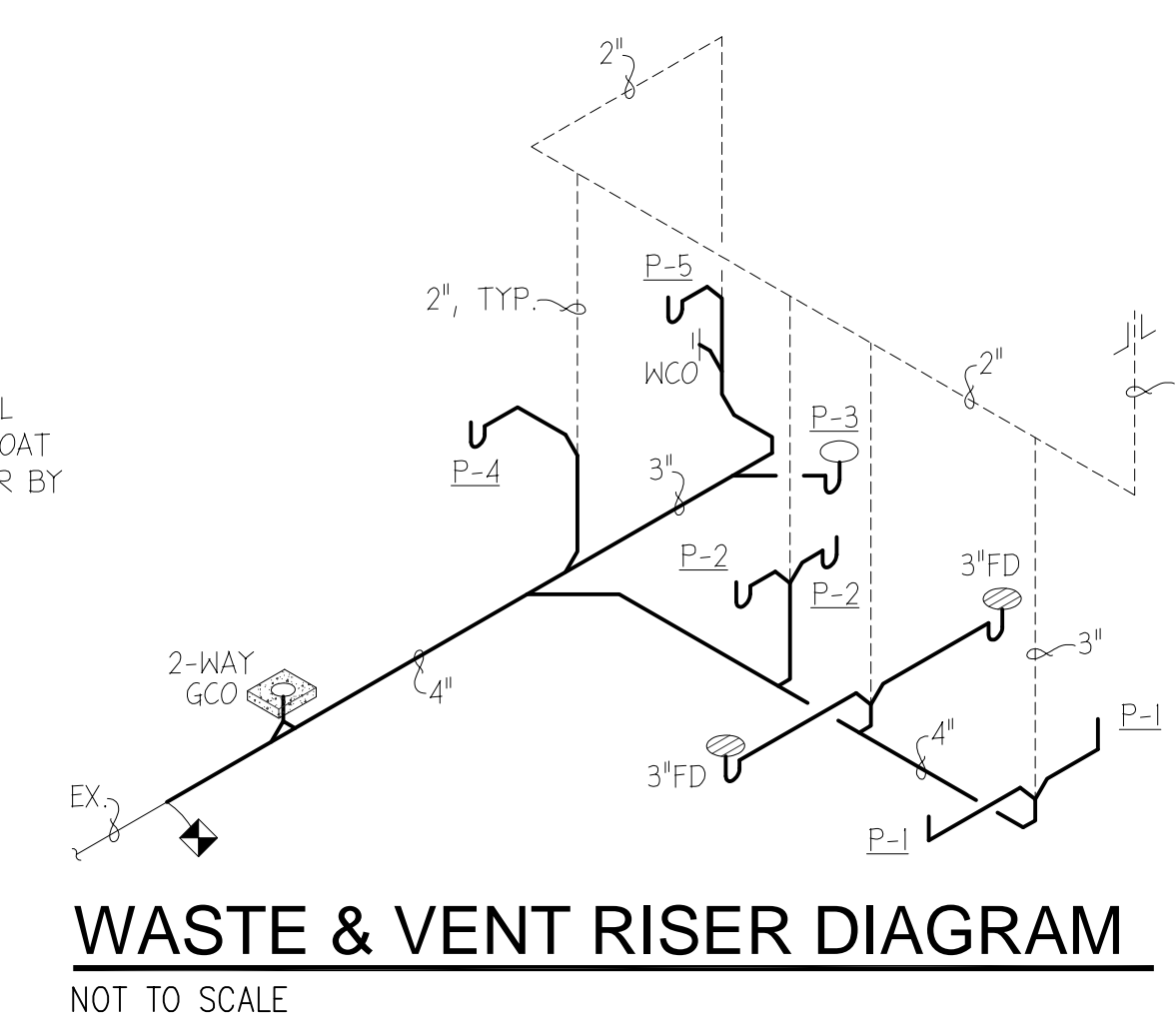
BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

SHEET TITLE:
PLUMBING NEW WORK PLAN

SHEET:
P-201

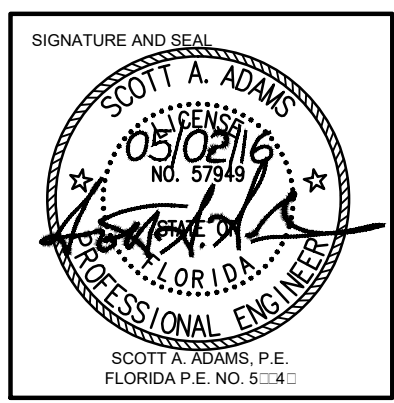
KEY NOTES:

- 1 INSTALL 3/4" COMPRESSED AIR DROP AND TERMINATE W/ INDUSTRIAL STYLE QUICK DISCONNECT APPROX. 2' A.F.F. CONNECT TO OSCI EQUIPMENT W/ NEW FITTINGS & FLEXIBLE CONNECTIONS. COORDINATE EXACT ROUGH-IN LOCATION AND QUICK DISCONNECT FITTING TYPE W/ OWNER. SEE AIR OUTLET CONNECTION DETAIL.
- 2 INSTALL 3/4" COMPRESSED AIR DROP AND TERMINATE W/ INDUSTRIAL STYLE QUICK DISCONNECT APPROX. 6' A.F.F. CONNECT TO OSCI EQUIPMENT W/ NEW FITTINGS & FLEXIBLE CONNECTIONS. COORDINATE EXACT ROUGH-IN LOCATION AND QUICK DISCONNECT FITTING TYPE W/ OWNER. SEE AIR OUTLET CONNECTION DETAIL.
- 3 RETRACTABLE COMPRESSED AIR HOSE REELS SHALL CONNECT TO HEADER TERMINATION VIA 3/4" X 3' HYDRAULIC HOSE W/ 3/4"-NPT BRASS BALL VALVES FOR ISOLATING THE HOSE REEL. PROVIDE W/ ADJUSTABLE BALL STOPS FOR SETTING DISPENSE POINT HEIGHT. COORDINATE TERMINATION/QUICK DISCONNECT FITTING TYPE & FINAL INSTALLATION LOCATION W/ OWNER.



PLUMBING NEW WORK PLAN
SCALE: 1/4" = 1'-0"

05/02/16



PSC WELDING SHOP

UNDERWOOD AVE., PENSACOLA, FL. 32504

REVISIONS:

1	06-08-16	ADD AIR DRYER
---	----------	---------------

BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

SHEET TITLE:
POWER □ SIGNAL
NEW WOR □ PLAN

SHEET:
E-103

ELECTRICAL LEGEND

- LP1 ○ NOMINAL 1'x4' LED LIGHTING FIXTURE, CIRCUIT 1, MARK LP1 (TYPICAL)
- NOMINAL 1'x6' LED WALL MOUNTED LIGHTING FIXTURE
- NOMINAL 2'x4' LED LIGHTING FIXTURE
- WALL MOUNTED LED LIGHTING FIXTURE
- SURFACE OR PENDANT MOUNTED LED LIGHTING FIXTURE
- LED STRIP LIGHTING FIXTURE
- ⊗ EXIT LIGHT WITH EMERGENCY BATTERY UNIT, CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT
- ⊕ EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK, CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT
- ⊕ SINGLE POLE LIGHTING SWITCH, MOUNT 46" A.F.F.
- ⊕ SINGLE POLE LIGHTING SWITCH, CONTROLS OUTLETS MARKED "σ", ETC.
- ⊕ THREE-WAY LIGHTING SWITCH, MOUNT 46" A.F.F.
- ⊕ THREE-WAY LIGHTING SWITCH, CONTROLS OUTLETS MARKED "σ", ETC.
- ⊕ 1200W DIMMER SWITCH, PHILLIPS #SR1200ZTUNV, MOUNT 46" A.F.F., CONTROLS OUTLETS MARKED "σ", ETC.
- ⊕ DUAL TECHNOLOGY OCCUPANCY SENSOR LIGHTING SWITCH, MOUNT 46" A.F.F.
- ⊕ DUAL TECHNOLOGY CEILING MOUNTED MOTION SENSOR HUBBELL OMNID1000 OR APPROVED EQUAL. PROVIDE POWER PACK. PROVIDE WIRING IN CONDUIT FROM SENSOR TO POWER PACK PER MANUFACTURER'S RECOMMENDATIONS.
- ⊕ DUPLEX RECEPTACLE, MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTERTOP
- ⊕ GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE, MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE WITH WEATHERPROOF COVER
- ⊕ QUADRAPLEX RECEPTACLE, MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ DUPLEX RECEPTACLE ON CORD/REEL
- ⊕ SPECIAL PURPOSE RECEPTACLE. VERIFY NEMA TYPE (VOLTAGE, PHASE, AMPS) WITH ACTUAL EQUIPMENT PROVIDED
- ⊕ EMERGENCY POWER-OFF PUSHBUTTON (EPO) TO DE-ENERGIZE ALL SHOP EQUIPMENT WHEN PRESSED
- ⊕ JUNCTION BOX
- ⊕ NON-FUSED DISCONNECT SWITCH
- LIGHTING AND APPLIANCE PANELBOARD - SURFACE MOUNTED
- PANELBOARD - SURFACE MOUNTED
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS
- - - CONDUIT RUN BELOW GRADE OR IN SLAB
- HOMERUN TO PANELBOARD ANY CIRCUIT WITHOUT FURTHER DESIGNATION = 2#12, 1#12 GRD 1/2"C, -H- = 3#12, 1#12 GRD, 1/2"C, ETC.

NOTE:
FIELD VERIFY LOCATION, MOUNTING, MOUNTING HEIGHT, ETC FOR ALL EQUIPMENT WITH OWNER AND ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.

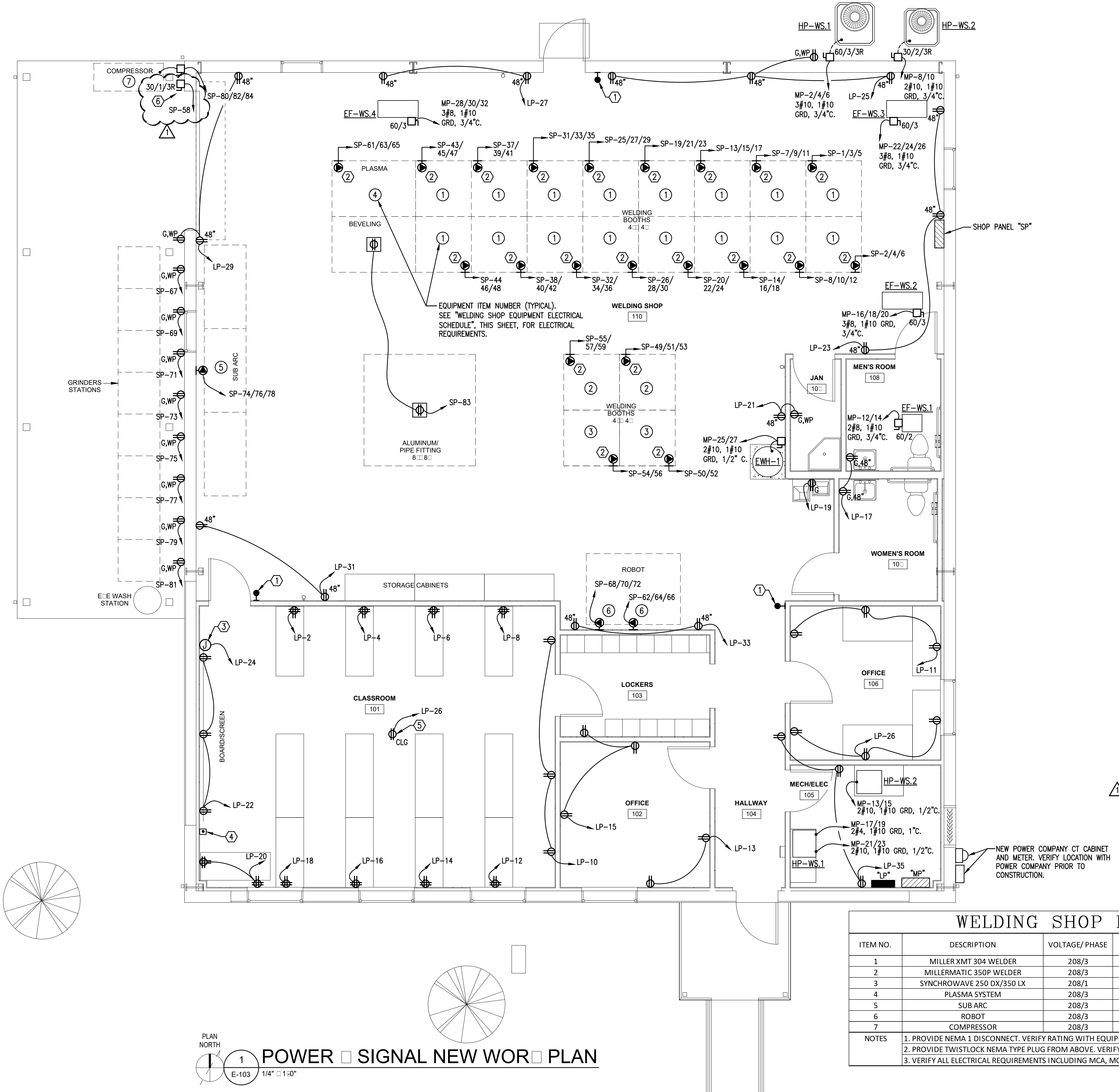
KEY NOTES

- ① "EPO" - EMERGENCY POWER-OFF PUSHBUTTON.
- ② PROVIDE SPECIAL TWIST-LOCK NEMA TYPE RECEPTACLE (TO BE VERIFIED WITH ACTUAL EQUIPMENT PROVIDED). PROVIDE UNISTRUT SUPPORT ABOVE WELDING BOOTH TO SUPPORT RECEPTACLE.
- ③ PROVIDE 120 VOLT CIRCUIT TO MOTORIZED PROJECTION SCREEN.
- ④ UP-DOWN CONTROL BUTTON FOR MOTORIZED PROJECTION SCREEN. MOUNT AT 48" A.F.F. PROVIDE 4#12, 1#12 GRD TO MOTORIZED PROJECTION SCREEN.
- ⑤ PROVIDE DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING TILE FOR OVERHEAD PROJECTOR.
- ⑥ PROVIDE DISCONNECT SWITCH AND 120 VOLT CIRCUIT FOR COMPRESSED AIR DRYER. VERIFY EXACT LOCATION WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. VERIFY VOLTAGE AND CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT PROVIDED.

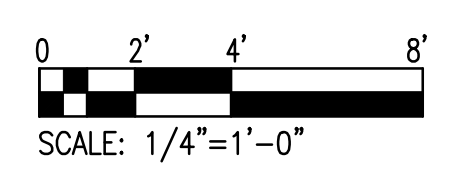
WELDING SHOP EQUIPMENT ELECTRICAL SCHEDULE

ITEM NO.	DESCRIPTION	VOLTAGE/ PHASE	MCA	LOAD (kVA)	WIRING	PANEL FED FROM	CIRCUIT BREAKER	DISCONNECT	NOTES
1	MILLER XMT 304 WELDER	208/3	42.0	9.83	3#6,#10G,1"C	"SP"	70/3	CORD/PLUG	2,3
2	MILLERMATIC 350P WELDER	208/3	43.0	9.92	3#6,#10G,1"C	"SP"	70/3	CORD/PLUG	2,3
3	SYNCHROWAVE 250 DX/350 LX	208/1	41.0	5.73	2#6,#10G,1"C	"SP"	70/2	CORD/PLUG	2,3
4	PLASMA SYSTEM	208/3	56.0	14.41	3#4,#8G,1 1/4"C	"SP"	80/3	CORD/PLUG	2,3
5	SUB ARC	208/3	60.0	15.00	3#4,#8G,1 1/4"C	"SP"	80/3	CORD/PLUG	2,3
6	ROBOT	208/3	45.0	10.00	3#6,#10G,1"C	"SP"	70/3	CORD/PLUG	2,3
7	COMPRESSOR	208/3	58.0	16.64	3#4,#8G,1 1/4"C	"SP"	100/3/3R	1,3	

NOTES
1. PROVIDE NEMA 1 DISCONNECT. VERIFY RATING WITH EQUIPMENT PROVIDED.
2. PROVIDE TWISTLOCK NEMA TYPE PLUG FROM ABOVE. VERIFY RATING WITH EQUIPMENT PROVIDED.
3. VERIFY ALL ELECTRICAL REQUIREMENTS INCLUDING MCA, MOCP, WIRE SIZE, CORD/PLUG OR DISCONNECT RATING, ETC WITH ACTUAL EQUIPMENT PROVIDED.



PLAN NORTH
1
E-103
1/4" = 1'-0"



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SCOTT A. ADAMS, P.E. LICENSE NO. 57949 • CA No. 26311

208Y/120 VOLT, 3Ø, 4W
1,000 AMP MAIN BREAKER
SERVICE ENTRANCE RATED

CIRCUIT BREAKER PANEL SCHEDULE MAIN PANEL "MP"

SURFACE MOUNTED
PROVIDE WITH INTEGRAL
SURGE SUPPRESSION

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT	
1								2	
3	PANEL "SP"	3	800	253.27	6.23	35	HP-WS.1 (OUTDOOR UNIT)	① 4	
5					1.50	15	HP-WS.2 (OUTDOOR UNIT)	① 6	
7					3.89	40	EF-WS.1	② 8	
9	PANEL "LP"	3	150	17.17				10	
11								12	
13	HP-WS.2 (INDOOR UNIT)	①	2	25	4.18			② 14	
15								16	
17	HP-WS.1(INDOOR UNIT-CKT.1)	①	2	60	8.61	6.02	35	3 EF-WS.2	② 18
19								20	
21	HP-WS.1(INDOOR UNIT-CKT.2)	①	2	25	3.60			② 22	
23					6.02	35	3 EF-WS.3	② 24	
25	EW-1	②	2	30	4.50			② 26	
27					6.02	35	3 EF-WS.4	② 28	
29								30	
31	SPARE	3	100					32	
33								34	
35					200	3	SPARE	36	
37	SPARE	3	100					38	
39					200	2	SPACE	40	
41	SPARE	1	20					42	

TOTAL CONNECTED LOAD: 318.27 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

① PROVIDE HACR TYPE CIRCUIT BREAKER. FIELD VERIFY SIZE & RATING WITH EQUIPMENT PROVIDED.
② FIELD VERIFY CIRCUIT BREAKER RATING WITH EQUIPMENT PROVIDED.

208Y/120 VOLT, 3Ø, 4W
225 AMP M.L.O.

CIRCUIT BREAKER PANEL SCHEDULE PANEL "LP"

SURFACE MOUNTED
PROVIDE WITH INTEGRAL
SURGE SUPPRESSION

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT	
1	LIGHTS - CLASSRM/OFFICES/TLTS	1	20	1.40	0.36	20	1	RECEPTS - CLASSROOM DESK	2
3	- WELDING SHOP			1.07	0.36			- CLASSROOM DESK	4
5	- WELDING SHOP			1.60	0.36			- CLASSROOM DESK	6
7	- WELDING SHOP			0.71	0.36			- CLASSROOM DESK	8
9	- OUTSIDE/GRINDERS			0.25	0.54			- CLASSROOM DESK	10
11	RECEPTS - OFFICE 106			0.54	0.36			- CLASSROOM DESK	12
13	- OFFICE 102			0.36	0.36			- CLASSROOM DESK	14
15	- OFFICE 102/LOCKERS			0.54	0.36			- CLASSROOM DESK	16
17	- WOMEN'S/MEN'S			0.36	0.36			- CLASSROOM DESK	18
19	E.W.C. - SHOP			0.60	0.72			- INSTRUCTOR'S DESK	20
21	RECEPTS - SHOP/JANITOR			0.36	0.54			- CLASSROOM DESK	22
23	- SHOP-EAST WALL			0.54	0.60			MOTORIZED SCREEN-CLASSROOM	24
25	- SHOP-NORTH WALL			0.72	0.54			RECEPTS - OFFICE 106	26
27	- SHOP-NORTH WALL			0.36	-			SPARE	28
29	- SHOP-WEST WALL			0.54	-				30
31	- SHOP-WEST/SOUTH WALL			0.36	-				32
33	- SHOP-SOUTH WALL			0.36	-				34
35	- MECH/ELECT/HALL			0.54	-				36
37	SPARE			-	-				38
39	SPACE			-	-			SPACE	40
41				-	-				42

TOTAL CONNECTED LOAD: 17.17 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

208Y/120 VOLT, 3Ø, 4W
800 AMP MAIN BREAKER
WITH SHUNT TRIP

CIRCUIT BREAKER PANEL SCHEDULE PANEL "SP"

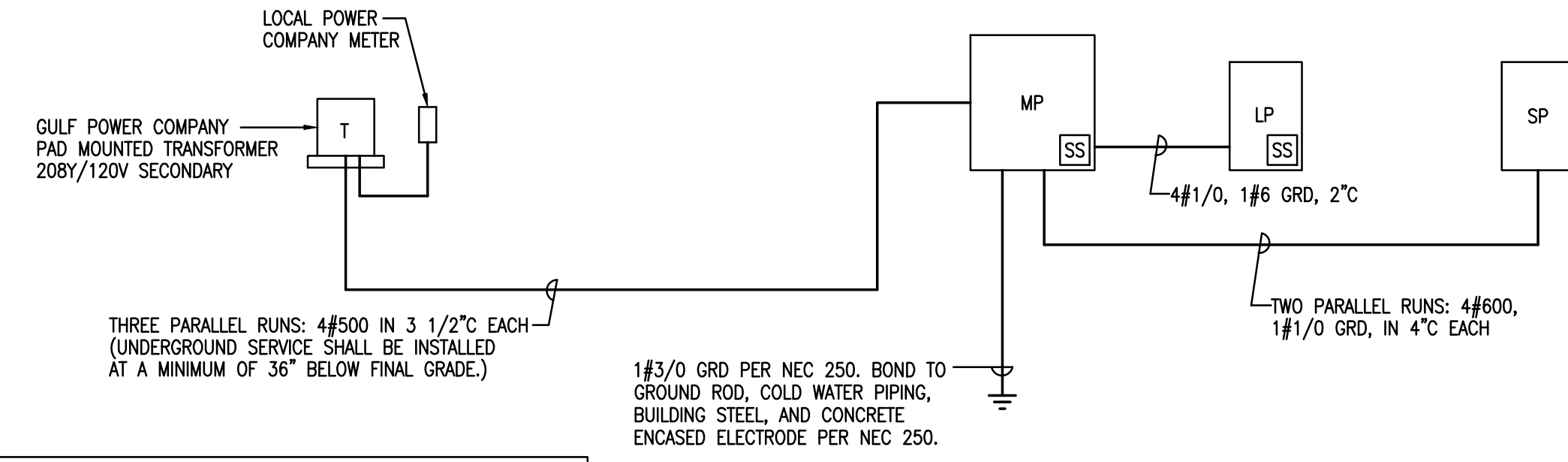
SURFACE MOUNTED

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT		
1								2		
3	WELDER (MILLER XMT 304)	①	3	70	9.83	9.83	70	3 WELDER (MILLER XMT 304)	① 4	
5								① 6		
7								① 8		
9	WELDER (MILLER XMT 304)	①	3	70	9.83	9.83	70	3 WELDER (MILLER XMT 304)	① 10	
11								① 12		
13								① 14		
15	WELDER (MILLER XMT 304)	①	3	70	9.83	9.83	70	3 WELDER (MILLER XMT 304)	① 16	
17								① 18		
19								① 20		
21	WELDER (MILLER XMT 304)	①	3	70	9.83	9.83	70	3 WELDER (MILLER XMT 304)	① 22	
23								① 24		
25								① 26		
27	WELDER (MILLER XMT 304)	①	3	70	9.83	9.83	70	3 WELDER (MILLER XMT 304)	① 28	
29								① 30		
31								① 32		
33	WELDER (MILLER XMT 304)	①	3	70	9.83	9.83	70	3 WELDER (MILLER XMT 304)	① 34	
35								① 36		
37								① 38		
39	WELDER (MILLER XMT 304)	①	3	70	9.83	9.83	70	3 WELDER (MILLER XMT 304)	① 40	
41								① 42		
43								① 44		
45	WELDER (MILLER XMT 304)	①	3	70	9.83	9.83	70	3 WELDER (MILLER XMT 304)	① 46	
47								① 48		
49					5.73	70	2	WELDER (MILLER SYNCHROWAVE)	① 50	
51	WELDER (MILLERMATIC 350P)	①	3	70	9.92				① 52	
53					5.73	70	2	WELDER (MILLER SYNCHROWAVE)	① 54	
55					0.71	20	1	COMPRESSED AIR DRYER	① 56	
57	WELDER (MILLERMATIC 350P)	①	3	70	9.92				① 58	
59								SPARE	① 60	
61									① 62	
63	PLASMA (HYPER THERM)	①	3	80	14.41	10.00	70	3	ROBOT	① 64
65									① 66	
67	GRINDER	①	1	20	1.80				① 68	
69	GRINDER	①	1	20	1.80	10.00	70	3	ROBOT	① 70
71	GRINDER	①	1	20	1.80				① 72	
73	GRINDER	①	1	20	1.80				① 74	
75	GRINDER	①	1	20	1.80	15.00	80	3	SUB ARC	① 76
77	GRINDER	①	1	20	1.80				① 78	
79	GRINDER	①	1	20	1.80				① 80	
81	GRINDER	①	1	20	1.80	16.64	100	3	COMPRESSOR	① 82
83	RECEPTS-BEVELING/PIPEFITTING	①	1	20	1.50				① 84	

TOTAL CONNECTED LOAD: 253.27 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

① FIELD VERIFY CIRCUIT BREAKER RATING WITH EQUIPMENT PROVIDED.

NOTE: INTERCONNECT ALL EMERGENCY POWER-OFF (EPO) PUSHBUTTONS WITH MAIN BREAKER SHUNT TRIP SUCH THAT PANEL IS DE-ENERGIZED UPON ACTIVATION OF ANY ONE OF THE PUSHBUTTONS.



NOTES:
COORDINATE LOCATION OF PAD MOUNTED TRANSFORMER, CTS, AND METER WITH GULF POWER COMPANY PRIOR TO CONSTRUCTION.
COORDINATE METERING REQUIREMENTS WITH GULF POWER COMPANY AND PROVIDE ALL REQUIRED EQUIPMENT.

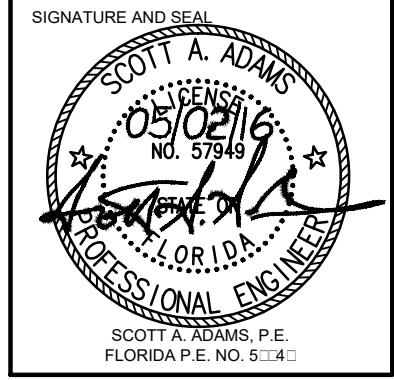
POWER RISER DIAGRAM

NOT TO SCALE



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05/02/16



PSC WELDING SHOP

UNDERWOOD AVE. PENSACOLA, FL. 32504

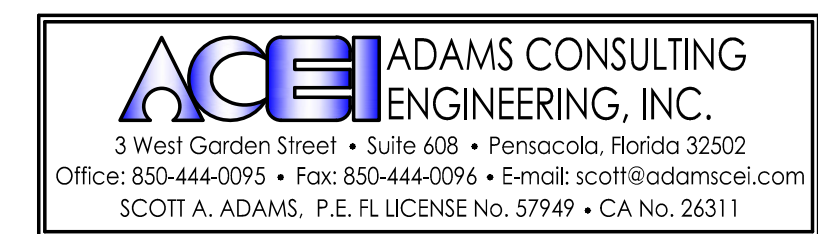
REVISIONS:

①	06-08-16	ADD AIR DRYER

BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

SHEET TITLE:
POWER RISER
DIAGRAM
ELECTRICAL
SCHEDULES

SHEET:
E-104



SIGNATURE AND SEAL

PSC WELDING SHOP
UNDERWOOD AVE., PENSACOLA, FL, 32504

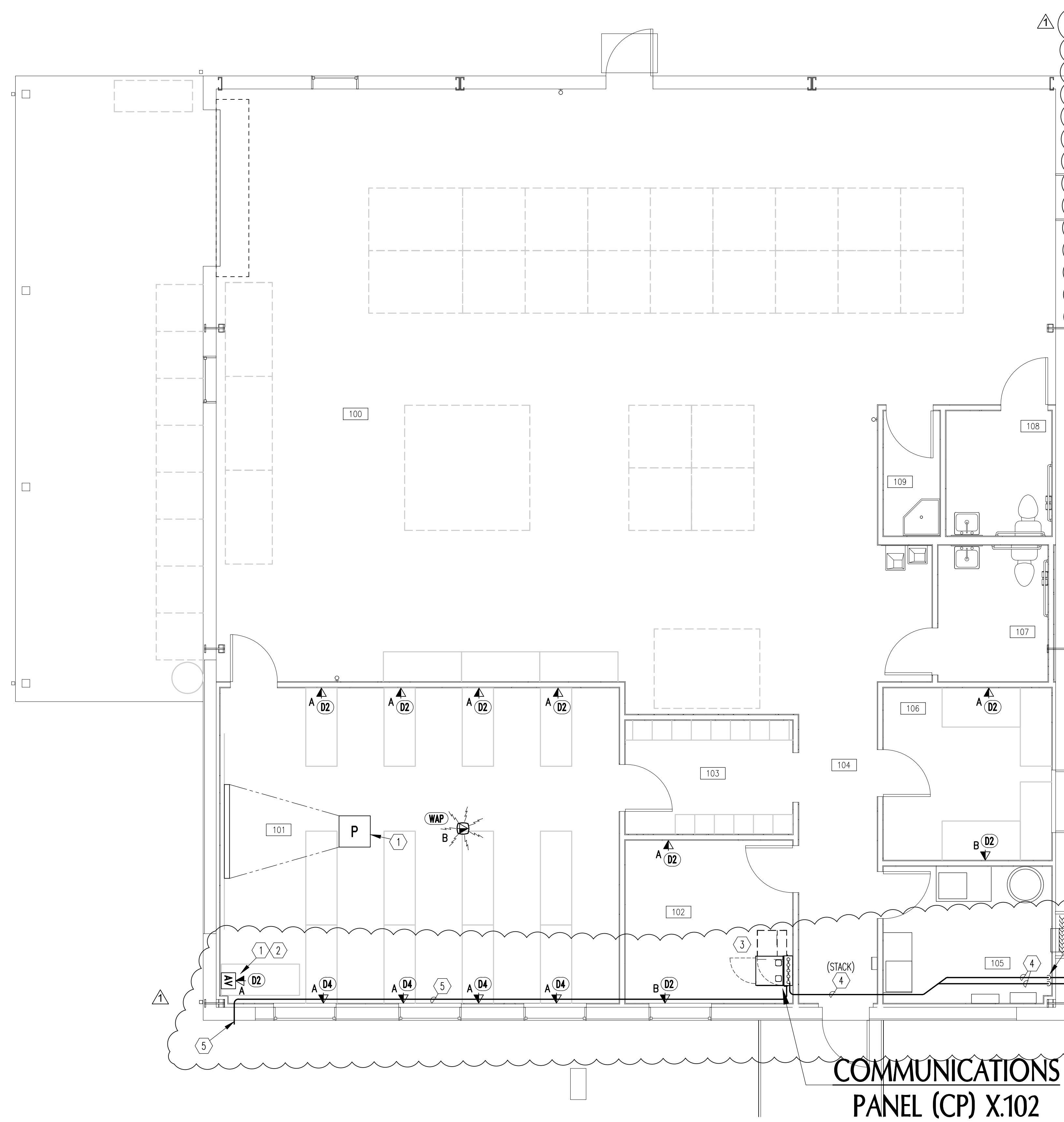
REVISIONS:

6/8/15	ADDENDUM 1

BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

SHEET TITLE:
**COMMUNICATIONS
NEW WORK**

SHEET:
T-100



- COMMUNICATIONS NEW WORK FLOOR PLAN KEY NOTES:**
- CLASSROOM A/V SYSTEM OUTLETS. PROVIDE NEW 'D2' OUTLET MOUNTED IN ABOVE TEACHER/PRESENTER STATION AND NEW 'D2' 'WAP' OUTLET MOUNTED IN SINGLE GANG OPENING IN PROJECTOR SUPPORT PLATE. ELECTRICAL CONTRACTOR PROVIDE TWO NEW DUPLEX POWER RECEPTACLES AT TEACHER/PRESENTER STATION AND NEW QUAD POWER RECEPTACLE IN NEW PROJECTOR SUPPORT PLATE. SEE DETAIL SHEETS. COLOR MATCH 'D2' OUTLET AND POWER DEVICE AND PLATE TO PROJECTOR SUPPORT PLATE (OFFICE WHITE). COORDINATE PROJECTOR PLATE LOCATION BASED ON OWNER SUPPLIED PROJECTOR AND LAPTOP.
 - AV CONNECTION FACEPLATE, MOUNT ON EXTRA DEEP 4"x4" BOX. PROVIDE 2" CONDUIT IN WALL AND ABOVE CEILING TO PROJECTOR LOCATION FOR CABLE PASS-THRU. FACEPLATE CONNECTORS SHALL BE COORDINATED WITH THE OWNER BASED ON THE OWNER SUPPLIED PROJECTOR AND LAPTOP.
 - NEW COMMUNICATIONS CABINET. COORDINATE EXACT LOCATION WITH FINAL FURNITURE LAYOUT.
 - TWO 2" BACKBONE CONDUITS (ONE RIGID, ONE EMT) TO EXTERIOR WALL CONVERT TO SCHEDULE 80 PVC 4" A.F.F. AND ROUTE TO EXTERIOR, SEE FLOOR PLAN.
 - OFI WIFI ANTENNA, WALL BRACKET MOUNT. COORDINATE HEIGHT AND LOCATION IN THE FIELD PRIOR TO ROUGH-IN WITH OWNER. LOCATE AND DRILL HOLE THROUGH WALL IN EXACT LOCATION REQUIRED FOR CONDUIT TO TERMINATE IN FACTORY OPENING IN WALL BRACKET HOLDER. SECURE WALL BRACKET HOLDER TO WALL STRUCTURE WITH FOUR STAINLESS STEEL SCREWS AND MAKE ALL PENETRATIONS OF WALL WATERTIGHT WITH LIFETIME 'POLYSEAMSEAL' CLEAR CAULK. EC PROVIDE A 3/4" CONDUIT THRU WALL STRUCTURE TO 4"x4"x2-1/8" NEMA 1 PULL BOX MOUNTED INDOORS DIRECTLY ADJACENT TO ANTENNA IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING, THEN RUN 3/4" CONDUIT CONTINUOUS TO ACCESSIBLE LAY-IN CEILING (SEE 'GENERAL ABOVEGROUND CONDUIT NOTES' FOR REQUIREMENTS). SEAL CABLE ENTRY WITH SILICONE SEALANT. UNDER NO CIRCUMSTANCES WILL EXPOSED CONDUIT OR WIRING BE ALLOWED. SCSC PROVIDE CATEGORY 6 CABLE FOR NETWORK AND POE SERVICES - SEE DATA SINGLE LINE DRAWING.

WALL/FLOOR PENETRATION NOTE
FIRE-RATED WALLS AND FLOORS:
THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS THAT EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. FIRESTOP SYSTEMS SHALL BE 3M, NELSON OR ENGINEER APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FIRE-RATED WALL AND FLOOR PENETRATION REQUIRED FOR THIS PROJECT.
INTERIOR NON FIRE-RATED WALLS:
ALL OPENINGS IN WALLS THAT DO NOT EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE SHALL BE SLEEVED, REPAIRED AND COMPLETELY SEALED WITH MATERIALS TO MATCH THE WALL CONSTRUCTION.
EXTERIOR WALLS:
SLEEVE WALL OPENING WITH SECTION OF SCHEDULE 40 PVC CONDUIT SIZED TO ACCEPT CONDUIT WITH ±1/4" ANNUAL SPACE FOR CAULK. SEAL BETWEEN SLEEVE AND CONDUIT WITH BACKER AND DOUBLE APPLICATION OF CLEAR LIFETIME SILICONE CAULK (BOTH SIDES). REPAIR WALL OPENING AROUND SLEEVE WITH NON-SHRINK HYDRAULIC GROUT FINISHED SMOOTH TO WALL SURFACE (BOTH SIDES). FINISH PAINT TO MATCH EXISTING BUILDING WALL COLOR.

FIRESTOPPING NOTE
THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. FIRESTOP SYSTEMS SHALL BE 3M, NELSON OR ENGINEER APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FLOOR AND WALL PENETRATION REQUIRED FOR THIS PROJECT. ALL OTHER PENETRATIONS OR OPENINGS IN NON-FIRE RATED WALLS SHALL BE REPAIRED AND SEALED WITH MATERIALS TO MATCH THE CONSTRUCTION OF THE WALL.
THE CONTRACTOR SHALL PROVIDE DETAILS FOR EACH DIFFERENT TYPE OF FIRESTOP ASSEMBLY REQUIRED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO INSTALLATION. EACH DETAIL SHALL INCLUDE THE TEST ASSEMBLY NUMBER AND A DESCRIPTION OF THE MATERIALS TO BE USED. HAVE APPROVED FIRESTOPPING DETAILS AVAILABLE AT PROJECT SITE AT TIME OF INSPECTION.

GENERAL CONDUIT PATHWAYS NOTE
RUN ALL CABLING IN CONDUIT PATHWAYS AS INDICATED, EXCEPT WHERE CONTRACTOR ELECTS TO INSTALL ADDITIONAL CONDUIT NOT INDICATED ON DRAWINGS. THE CONTRACTOR AGREES TO USE THE CONDUIT SYSTEM AS SHOWN, OR SHALL PROVIDE ADDITIONAL CONDUIT (AT NO ADDITIONAL COST TO THE OWNER) AS REQUIRED TO PROPERLY INSTALL ALL CABLING INDICATED, WITHOUT DAMAGE TO CABLING. THE ENTIRE CABLING PLANT SHALL BE TESTED TO THE REQUIREMENTS OF THE SPECIFICATIONS FOR THIS PROJECT AND SHALL BE CERTIFIED BY THE CONTRACTOR. ALL CONDUIT SHALL CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.

TURN CONDUIT DOWN AT EXTERIOR WALL. PROVIDE PULLBOX IN VERTICAL SECTION. TURN CONDUITS OUT EXTERIOR WALL NEAR FLOOR. SLEEVE AND SEAL WALL PENETRATION.
BASE BID: TERMINATE AND CAP CONDUIT AT EXTERIOR OF BUILDING. ALL WORK OUTSIDE THE BUILDING WILL BE ADD ALTERNATE #1.
ADD ALTERNATE #1: TWO 2" SCHEDULE 80 UNDERGROUND CONDUITS TO NEW COMMUNICATIONS HANDHOLE, SEE T-101 FOR CONTINUATION.

COMMUNICATIONS NEW WORK PLAN
SCALE: 1/4" = 1'-0"

ADDITIVE ALTERNATE #1 NOTE

ALL WORK INDICATED ON THIS SHEET IS ADDITIVE ALTERNATE #1
 BACKBONE CABLING BETWEEN THE NEW BUILDING AND BUILDING 5 HANDHOLE TO BE PROVIDED UNDER SEPARATE CONTRACT.

CONTRACTOR OPTION NOTES

CONTRACTOR MAY ELECT TO DIRECTIONAL BORE OR SAWCUT AND REPAIR WHEN ROUTING THE NEW CONDUITS.

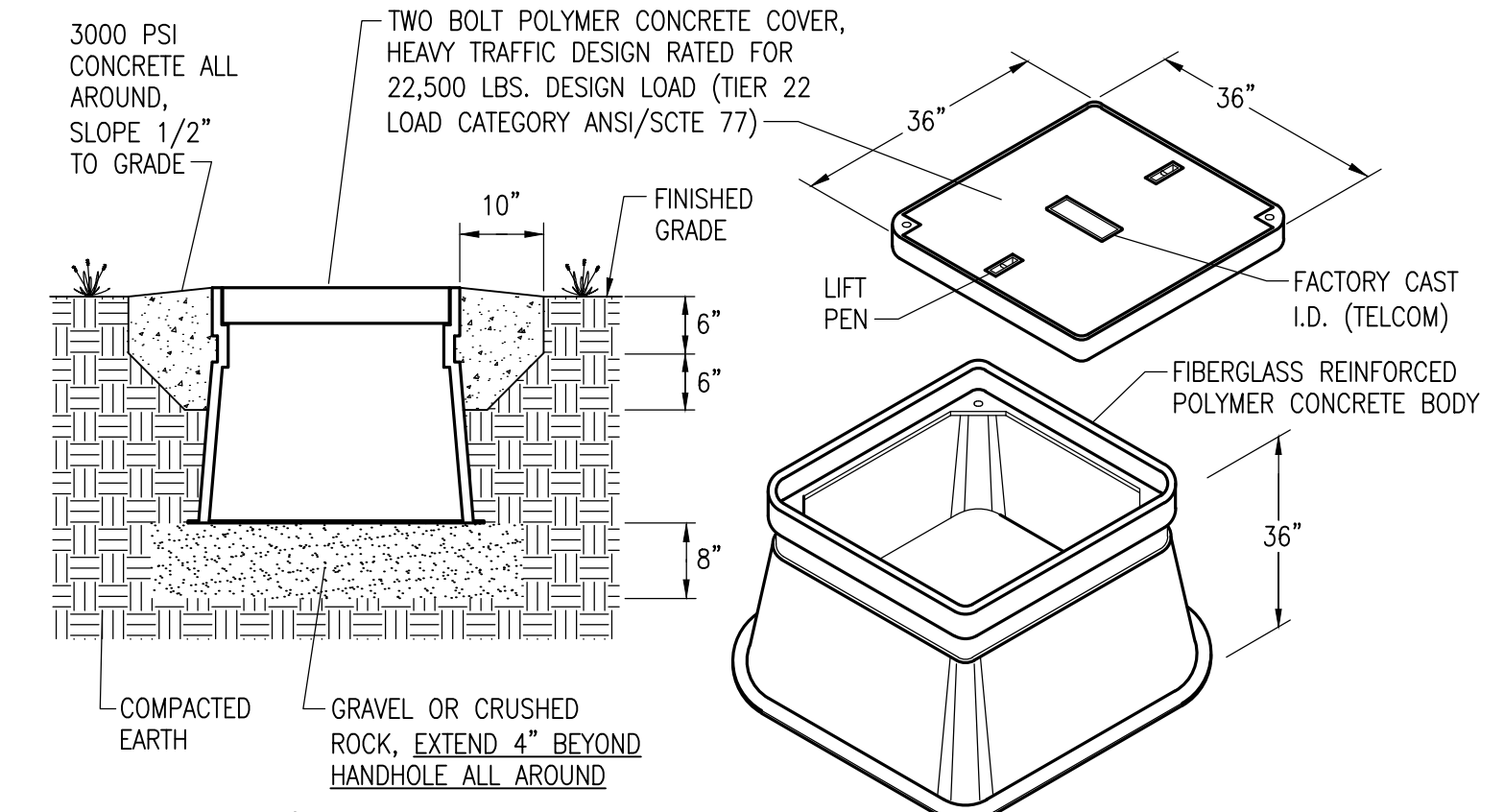
COMMUNICATIONS SITE PLAN GENERAL NOTES

- CONDUIT LOCATION SHOWN IS APPROXIMATE AND INTENDED TO SHOW GENERAL ROUTING ONLY.
- COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER SITE WORK CONTRACTORS.
- COORDINATE ALL WORK WITH NEW AND EXISTING UTILITIES. CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND FOR DEVELOPING A CONDUIT ROUTING PLAN TO AVOID INTERFERENCES WITH AND DAMAGE TO NEW AND EXISTING UTILITIES.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR PREPARING ALL PERMIT APPLICATIONS AND FOR OBTAINING ALL PERMITS REQUIRED FOR SITE CONDUIT WORK TO INCLUDE WORK IN PUBLIC RIGHT-OF-WAYS FROM ALL PERMITTING AGENCIES WITH JURISDICTION.



HORIZONTAL DIRECTIONAL DRILLING NOTES

- REFER TO "COMMUNICATIONS SITE PLAN GENERAL NOTES."
- THE PROJECT REQUIRES THE USE OF HORIZONTAL DIRECTIONAL DRILLING (HDD - ALSO COMMONLY REFERRED TO AS DIRECTIONAL BORING OR GUIDED HORIZONTAL BORING) FOR THE INSTALLATION OF UNDERGROUND CONDUITS AS INDICATED.
- SEE "GENERAL UNDERGROUND CONDUIT NOTES (TRENCHED AND DIRECTIONAL BORE)" THIS SHEET FOR ADDITIONAL REQUIREMENTS.
- LOCATION AND ROUTING OF NEW UNDERGROUND CONDUIT IS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION AND ROUTING OF CONDUIT TO AVOID CONFLICTS WITH EXISTING BURIED UTILITIES AND OTHER OBSTRUCTIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL EXISTING BURIED UTILITIES PRIOR TO COMMENCING WORK UNDER THE PROJECT. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITIES THAT OCCURS AS A RESULT OF OPERATIONS PERFORMED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER. REPAIRS SHALL BE MADE USING MATERIALS & METHODS TO MATCH EXISTING CONSTRUCTION AND SHALL BE APPROVED BY THE UTILITY OWNER PRIOR TO RE-COVERING.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS.
- THE CONTRACTOR SHALL PREPARE, SUBMIT AND BEAR ALL COSTS FOR AND OBTAIN ALL PERMITS REQUIRED TO CONDUCT AND COMPLETE THE WORK TO INCLUDE ALL PUBLIC RIGHT-OF-WAY PERMITS FROM ALL PERMITTING AGENCIES WITH JURISDICTION.
- THE HORIZONTAL DIRECTIONAL DRILLING (HDD) CONTRACTOR SHALL SPECIALIZE IN THE TYPE OF WORK REQUIRED FOR THIS PROJECT AND IN PARTICULAR SHALL BE EXPERIENCED IN THE SUCCESSFUL INSTALLATION OF CONDUITS IN CONGESTED ROADSIDE UTILITY PATHS WITH MULTIPLE UTILITY OWNERS AND PERMITTING AGENCY INVOLVEMENT AS REQUIRED FOR THIS APPLICATION. THE HDD CONTRACTOR SHALL HAVE BEEN IN THE BUSINESS OF HDD INSTALLATIONS FOR NOT LESS THAN THREE YEARS PRIOR TO THE BID DATE, AND SHALL HAVE COMPLETED NOT LESS THAN TEN SUCCESSFUL PROJECTS OF THE SAME TYPE AND SCOPE AS REQUIRED FOR THIS PROJECT. THE HDD CONTRACTOR SHALL PROVIDE A LIST OF REFERENCES WITH CONTACT PHONE NUMBERS AND EMAILS TO THE GENERAL CONTRACTOR FOR ALL PROJECTS COMPLETED IN THE LAST THREE YEARS. THE HDD CONTRACTOR SHALL ALSO SUBMIT TO THE GENERAL CONTRACTOR DOCUMENTATION OF THE EQUIPMENT TO BE USED, A BRIEF WORK PLAN OUTLINING THE PROCEDURES TO BE USED TO EXECUTE THE PROJECT, AND DOCUMENTATION OF THE TRAINING AND RELEVANT EXPERIENCE OF THE PERSONNEL WHO WILL BE ASSIGNED TO THE PROJECT.
- THE GENERAL CONTRACTOR SHALL THOROUGHLY EXAMINE THE QUALIFICATIONS OF POTENTIAL HDD CONTRACTORS AND SHALL SELECT A QUALIFIED CONTRACTOR CAPABLE OF COMPLETING THE WORK REQUIRED FOR THIS PROJECT AT A HIGH LEVEL OF PERFORMANCE TO INCLUDE IDENTIFICATION AND PROTECTION OF EXISTING UTILITIES.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE DIVISION OF WORK AND ASSIGNMENT OF RESPONSIBILITIES BETWEEN THE HDD CONTRACTOR AND THE ELECTRICAL CONTRACTOR.
- THE HDD CONTRACTOR SHALL UTILIZE A GUIDANCE SYSTEM BASED ON THE MOST ACCURATE PROVEN TECHNOLOGY. THE GUIDANCE SYSTEM SHALL BE SETUP AND OPERATED BY PERSONNEL THOROUGHLY TRAINED AND EXPERIENCED IN THE USE OF THE SYSTEM. THE OPERATOR SHALL BE AWARE OF ANY MAGNETIC ANOMALIES AND SHALL CONSIDER SUCH INFLUENCES IN THE OPERATION OF THE GUIDANCE SYSTEM IF A MAGNETIC SYSTEM IS USED.
- PRIOR TO COMMENCING WORK, THE HDD CONTRACTOR SHALL CONDUCT A SURVEY AND SHALL OBTAIN ALL INFORMATION REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT WITHOUT DAMAGE TO EXISTING UTILITIES. THE SURVEY SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING METHODS TO IDENTIFY EXISTING UNDERGROUND UTILITIES AND STRUCTURES:
 - COORDINATE WITH GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, OWNER'S PROJECT MANAGER, OWNER'S OF OTHER UTILITIES, AND OTHER SOURCES OF INFORMATION REGARDING EXISTING UTILITIES.
 - OBTAIN ALL RELATED DRAWINGS FOR THIS PROJECT TO INCLUDE CIVIL DRAWINGS AND OTHER DRAWINGS SHOWING UTILITIES IN THE AREA OF WORK.
 - OBTAIN DRAWINGS OF EXISTING CONSTRUCTION SHOWING UNDERGROUND UTILITIES. CONFIRM USING FIELD CONFIRMATION METHODS.
 - SURVEY AREA OF WORK USING GROUND PENETRATING RADAR (GPR).
 - TRACE PATH OF CABLES AND WIRES CONTAINING METALLIC ELEMENTS USING A CABLE LOCATOR.
 - CALL FOR UTILITY LOCATE OF EXISTING UTILITIES.
 - FIELD MEASURE LOCATION OF ALL SURFACE STRUCTURES ASSOCIATED WITH UNDERGROUND UTILITIES.
 - USE ANY AND ALL OTHER METHODS COMMONLY EMPLOYED FOR THE LOCATION OF UNDERGROUND UTILITIES.
 - HAND EXCAVATE AS REQUIRED TO SUPPLEMENT AND CONFIRM INFORMATION OBTAINED BY THE METHODS MENTIONED ABOVE.
 - IF CONTRACTOR USES A MAGNETIC GUIDANCE SYSTEM, SURVEY DRILL PATH FOR ANY GEO-MAGNETIC VARIATIONS OR ANOMALIES THAT MAY AFFECT THE SYSTEM.
- FOLLOWING THE SURVEY THE HDD CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN TO THE GENERAL CONTRACTOR AND OWNER'S PROJECT MANAGER. THE WORK PLAN SHALL INCLUDE BUT NOT BE LIMITED TO PHOTOGRAPHS OF THE ENTIRE WORK AREA DOCUMENTING EXISTING CONDITIONS, A SITE PLAN DRAWING SHOWING THE LOCATION OF ALL EXISTING BURIED UTILITIES, THE PROPOSED LOCATION FOR ALL ENTRY AND EXIT POINTS, AN OUTLINE OF THE PROCEDURES AND SCHEDULE TO BE USED TO EXECUTE THE PROJECT, AND ALL OTHER INFORMATION REQUIRED TO DOCUMENT THE THOUGHTFUL PLANNING REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT.
- A PILOT HOLE SHALL BE DRILLED ON EACH BORE PATH TO VERIFY VIABILITY OF PATH.
- FOLLOWING BORING OPERATIONS, THE CONTRACTOR SHALL RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION. ALL EXCAVATIONS SHALL BE BACKFILLED AND COMPACTED TO 95% OF ORIGINAL DENSITY. SODDING AND LANDSCAPING SHALL BE RESTORED TO THE CONDITION EXISTING PRIOR TO THE COMMENCEMENT OF WORK.
- THE HDD CONTRACTOR SHALL MAINTAIN A DAILY LOG OF BORING OPERATIONS DURING THE WORK. AT THE COMPLETION OF HDD WORK, THE CONTRACTOR SHALL PROVIDE AN AS-BUILT DRAWING IN AUTOCAD FORMAT.



INSTALLATION DETAIL

CONSTRUCTION DETAIL

COMMUNICATIONS HANDHOLE NOTES:

- HANDHOLE SHALL BE 36"x36"x36", OLDCASTLE. COVER AND BODY SHALL BOTH BE HEAVY TRAFFIC RATED, 22,500 POUND DESIGN LOAD, ANSI/SCITE 77 TIER 22 LOAD CATEGORY. COVER LOGO SHALL BE "TELCOM" OR "COMMUNICATIONS". INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THE REQUIREMENTS OF THIS PROJECT.
- TERMINATE CONDUITS ENTERING HANDHOLE WITH END BELL (CARLON E997). CONSTRUCT CONDUIT RISE TO ENTER BOX FROM SIDE WITH 22-1/2" SWEEP ELBOWS. SEE "TYPICAL HANDHOLE CONDUIT ENTRY DETAIL". DO NOT ENTER HANDHOLE FROM BOTTOM.

LARGE COMMUNICATIONS HANDHOLE TYPICAL DETAILS

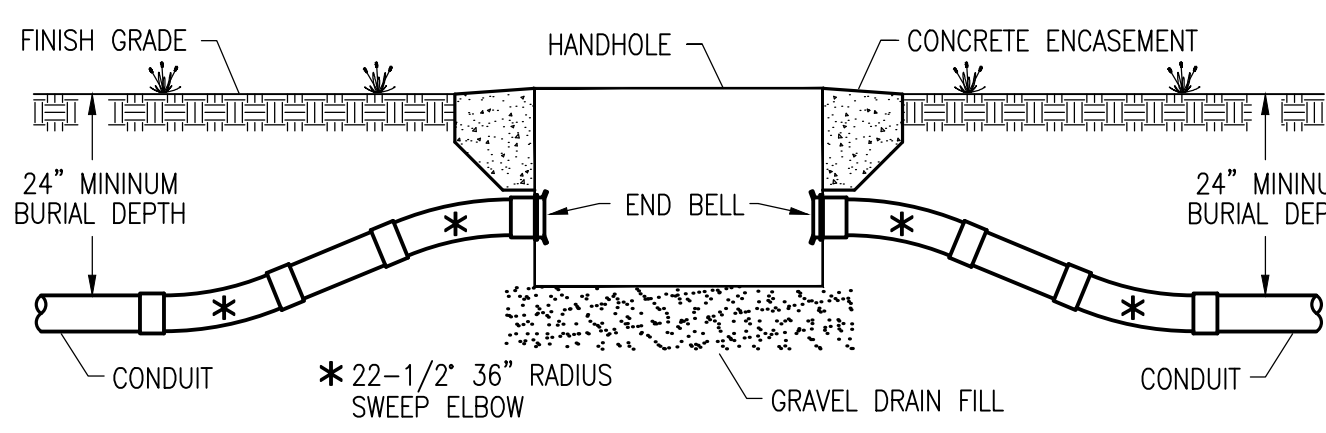
NOT TO SCALE

COMMUNICATIONS PARTIAL SITE PLAN KEY NOTES

- LARGE COMMUNICATIONS HAND HOLE, SEE DETAILS.
- HORIZONTAL DIRECTIONAL BORE. WORK SHALL BE PERFORMED BY A SPECIALTY CONTRACTOR THAT IS REGULARLY EMPLOYED IN THIS TYPE OF WORK. WORK SHALL INCLUDE ALL LOCATING OF EXISTING UTILITIES, EQUIPMENT, MATERIALS, AND LABOR FOR A COMPLETE INSTALLATION. SEE "GENERAL UNDERGROUND CONDUIT NOTES (TRENCHED AND DIRECTIONAL BORE)" AND "HORIZONTAL DIRECTIONAL DRILLING NOTES."
- 2" PVC CONDUIT (UNDERGROUND), SCHEDULE 80, RUN UNDERGROUND DIRECT BURIED. MINIMUM BURIAL DEPTH 24" BELOW FINISHED GRADE. PROVIDE CONTINUOUS WARNING TAPE (ORANGE 3" WIDE - DETECTABLE - CARLON MAT3061) OVER ALL BURIED CONDUIT AT 6" BELOW FINISH GRADE. INSTALL 3/8" MARKED PULL TAPE (CARLON TL382) ALONG WITH REQUIRED CABLES. SEE "GENERAL UNDERGROUND CONDUIT NOTES".
- (FOR SAWCUT/PATCH) - 4" PVC CONDUIT (UNDERGROUND), SCHEDULE 40, RUN UNDERGROUND DIRECT BURIED. MINIMUM BURIAL DEPTH 24" BELOW FINISHED GRADE. PROVIDE CONTINUOUS WARNING TAPE (ORANGE 3" WIDE - DETECTABLE - CARLON MAT3061) OVER ALL BURIED CONDUIT AT 6" BELOW FINISH GRADE. INSTALL 3/8" MARKED PULL TAPE (CARLON TL382) ALONG WITH REQUIRED CABLES. SEE "GENERAL UNDERGROUND CONDUIT NOTES". AT CONTRACTOR'S OPTION PROVIDE HORIZONTAL DIRECTIONAL DRILLING PER KEY NOTE 4B IF APPROVED BY OWNER AND PERMITTING AGENCIES. PROVIDE WITH ONE MAXCELL 4"-3 CELL DETECTABLE FABRIC INNERDUCTS IN EACH CONDUIT RUN (MAXCELL PART NUMBER MXD4003).
- (FOR DIRECTIONAL BORE) - 4" SMOOTH WALL HDPE CONDUIT (DIRECTIONAL BORE HDD) BY CARLON OR ENGINEER APPROVED EQUAL, SDR11 (0.409" WALL THICKNESS), TONABLE COPPER CONDUCTOR FACTORY EMBEDDED IN WALL, COLOR ORANGE, FACTORY PRE-LUBRICATED. RUN CONDUIT CONTINUOUS THROUGHOUT ENTIRE RUN FROM HANDHOLE TO HANDHOLE WITH NO SPLICES OR COUPLERS. SEE "HORIZONTAL DIRECTIONAL DRILLING NOTES". PROVIDE WITH ONE MAXCELL 4"-3 CELL DETECTABLE FABRIC INNERDUCT IN EACH CONDUIT RUN (MAXCELL PART NUMBER MXD4003).

GENERAL UNDERGROUND CONDUIT NOTES (TRENCHED AND DIRECTIONAL BORE):

- LOCATION AND ROUTING OF NEW UNDERGROUND CONDUIT IS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION AND ROUTING OF CONDUIT TO AVOID CONFLICTS WITH EXISTING BURIED UTILITIES AND OTHER OBSTRUCTIONS. SIGNIFICANT CHANGES TO CONDUIT ROUTING SHALL REQUIRE THE APPROVAL OF THE ENGINEER.
- BURIED WARNING AND IDENTIFICATION TAPE: PROVIDE METALLIC DETECTION TAPE MANUFACTURED SPECIFICALLY FOR WARNING AND IDENTIFICATION OF BURIED UTILITIES. INSTALL TAPE DIRECTLY ABOVE EACH BURIED CONDUIT AT DEPTH OF 10 TO 12 INCHES BELOW GRADE FOR ENTIRE LENGTH OF CONDUIT. TAPE SHALL BE DETECTABLE BY ANY STANDARD NON-FERRIC METAL DETECTOR. PROVIDE TAPE IN ROLLS, 2 INCHES MINIMUM WIDTH, COLOR ORANGE, WITH WARNING AND IDENTIFICATION IMPRINTED IN BOLD BLACK LETTERS CONTINUOUSLY AND REPEATEDLY OVER ENTIRE TAPE LENGTH. WARNING AND IDENTIFICATION SHALL READ "CAUTION BURIED COMMUNICATIONS LINE BELOW". USE PERMANENT CODE AND LETTER COLORING UNAFFECTED BY MOISTURE AND OTHER SUBSTANCES CONTAINED IN BACKFILL MATERIAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL EXISTING BURIED UTILITIES PRIOR TO COMMENCING ANY EXCAVATION OR DIRECTIONAL BORING REQUIRED FOR WORK UNDER THE PROJECT. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITIES THAT OCCURS AS A RESULT OF OPERATIONS PERFORMED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER. REPAIRS SHALL BE MADE USING MATERIALS & METHODS TO MATCH EXISTING CONSTRUCTION AND SHALL BE APPROVED BY THE UTILITY OWNER PRIOR TO RE-COVERING.
- LOCATION OF HANDHOLES SHOWN IS INTENDED TO PLACE HANDHOLES IN ACCESSIBLE SODDED, PLANTED OR PAVED AREAS. COORDINATE LOCATIONS WITH OTHER UTILITIES, SIDEWALKS, DRAINAGE STRUCTURES, OTHER OUTSIDE STRUCTURES, AND LANDSCAPING TO AVOID CONFLICTS.
- PROVIDE HANDHOLES IN UNDERGROUND CONDUIT AS INDICATED AND ADDITIONAL HANDHOLES AS REQUIRED DUE TO CHANGES IN CONDUIT DIRECTION. INSTALL A HANDHOLE IN EACH CONDUIT RUN OF LONGER THAN 500 FEET OR CONTAINING THE EQUIVALENT OF MORE THAN TWO 90° BENDS. INSTALL HANDHOLES AFTER BENDS AS INDICATED. DO NOT USE HANDHOLES TO MAKE A CHANGE IN DIRECTION.
- RESTORE TO THEIR ORIGINAL ELEVATION AND CONDITION UNPAVED SURFACES DISTURBED DURING INSTALLATION OF UNDERGROUND CONDUIT. PRESERVE AND REPLACE SOD OR TOPSOIL AFTER INSTALLATION IS COMPLETED. REPLACE SOD THAT IS DAMAGED WITH SOD OF TYPE AND QUALITY EQUAL TO THAT REMOVED.
- WHERE TRENCHES OR OTHER EXCAVATIONS ARE MADE IN AREAS OF EXISTING ROADWAYS OR WALKWAYS WHERE SURFACE TREATMENT OF ANY KIND EXISTS, RESTORE SUCH SURFACE TREATMENT TO THE SAME THICKNESS AND IN THE SAME KIND AS PREVIOUSLY EXISTED (EXCEPT AS OTHERWISE INDICATED) AND TO MATCH AND TIE INTO THE ADJACENT AND SURROUNDING SURFACES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING SURFACE TREATMENT SUCH AS CONCRETE OR ASPHALTIC PAVING. THE DRAWINGS SHALL NOT BE CONSTRUED AS PROVIDING ACCURATE REPRESENTATION OF THE TYPE, LOCATION OR EXTENT OF SURFACE TREATMENT OF ANY KIND.
- THE MINIMUM BEND RADIUS FOR ALL UNDERGROUND CONDUITS SHALL BE 10 TIMES THE INTERNAL CONDUIT DIAMETER.
- CONDUIT INSTALLER PROVIDE HEAVY DUTY PULL TAPE (2500 POUND "MULE TAPE") IN ALL BACKBONE CONDUITS.
- SEE "HORIZONTAL DIRECTIONAL DRILLING NOTES" THIS SHEETS FOR ADDITIONAL REQUIREMENTS.



TYPICAL HANDHOLE CONDUIT ENTRY DETAIL

NOT TO SCALE

COMMUNICATIONS OVERALL SITE PLAN

SCALE: NOT TO SCALE

NOTE: APPROXIMATE SCALE IS 1"=40' BUT SITE VERIFICATION OF ALL DISTANCES IS REQUIRED.

BTA
 ...optimizing design value
 PLANNING ARCHITECTURE INTERIOR DESIGN DESIGN BUILD
 Bullock Tice Associates
 909 East Cervantes Suite B
 Pensacola, FL 32501
 AAC000174
 www.bullocktice.com
 Fax: 850.432.5208
 Phone: 850.434.5444

SIGNATURE AND SEAL

PSC WELDING SHOP
 UNDERWOOD AVE., PENSACOLA, FL, 32504

REVISIONS:	
6/8/15	ADDENDUM 1

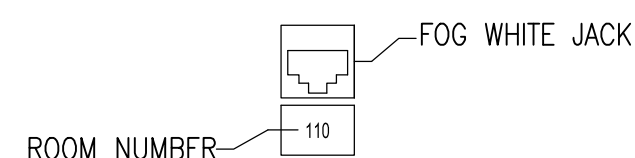
BTA PROJECT NO: 142615.02
 SHEET DATE: 05/02/16

SHEET TITLE:
COMMUNICATIONS NEW WORK

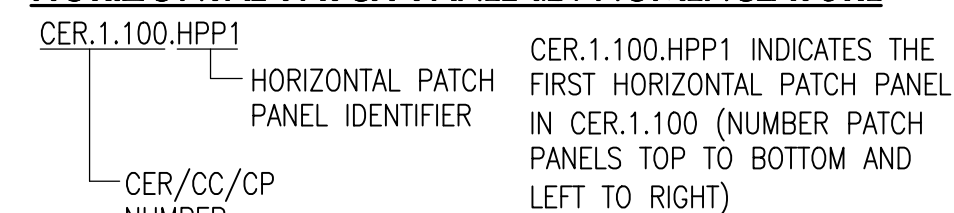
SHEET:
T-101

Premier Engineering Group, LLC
 Brian, Cook & Galley
 410 W. Nine Mile Road, Suite A Pensacola, Florida 32534
 Florida Certificate of Authorization #90308
 Phone: (850) 469-0405 Fax: (850) 432-0905
 Premier Project #P15063

HORIZONTAL PATCH PANEL PORT LABELING NOMENCLATURE

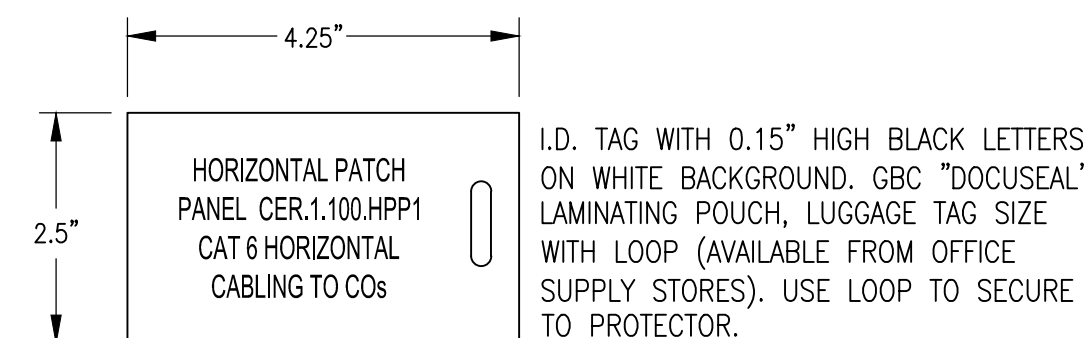


HORIZONTAL PATCH PANEL I.D. NOMENCLATURE



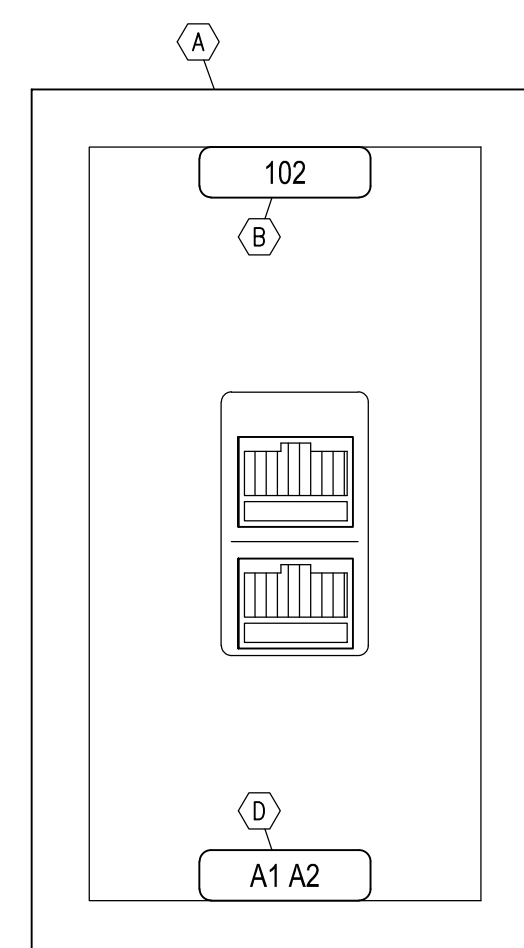
CATEGORY 6 HORIZONTAL TELECOMMUNICATIONS CHANNEL LABELING REQUIREMENTS (TYPICAL FOR ALL COs)

- 1) TERMINATE CATEGORY 6 HORIZONTAL CABLING ON HORIZONTAL PATCH PANELS IN NUMERICAL ORDER BY ROOM NUMBER. REFER TO FLOOR PLANS AND "COMMUNICATIONS OUTLET (CO) SCHEDULE" FOR ROOM NUMBER AND LOCATION.
- 2) PROVIDE FACTORY PAPER-IN-PLASTIC LABEL FOR EACH ROW, WITH PRINTED VERTICAL SUBDIVISIONS THAT PHYSICALLY MATCH LIMITS OF MODULAR JACKS WHEN INSTALLED IN PATCH PANELS.
- 3) IDENTIFY EACH HORIZONTAL PATCH PANEL MODULAR JACK AS INDICATED. TEXT SHALL BE GENERATED ON LASER PRINTER AND SHALL BE MINIMUM 10.5 POINT ARIAL NARROW FONT BOLD (ENGINEER WILL PROVIDE FONT). WHERE CONNECTIONS ARE NOT USED (AT ENDS OF PARTIALLY POPULATED PATCH PANELS), LEAVE LABELS BLANK FOR FUTURE EXPANSION.
- 4) PROVIDE OVERALL IDENTIFICATION TAG FOR EACH HORIZONTAL PATCH PANEL IN ACCORDANCE WITH "HORIZONTAL PATCH PANEL I.D. NOMENCLATURE". TAG CONSTRUCTION AND LAYOUT SHALL BE PER "TYPICAL HORIZONTAL PATCH PANEL LAMINATED I.D. TAG DETAIL".



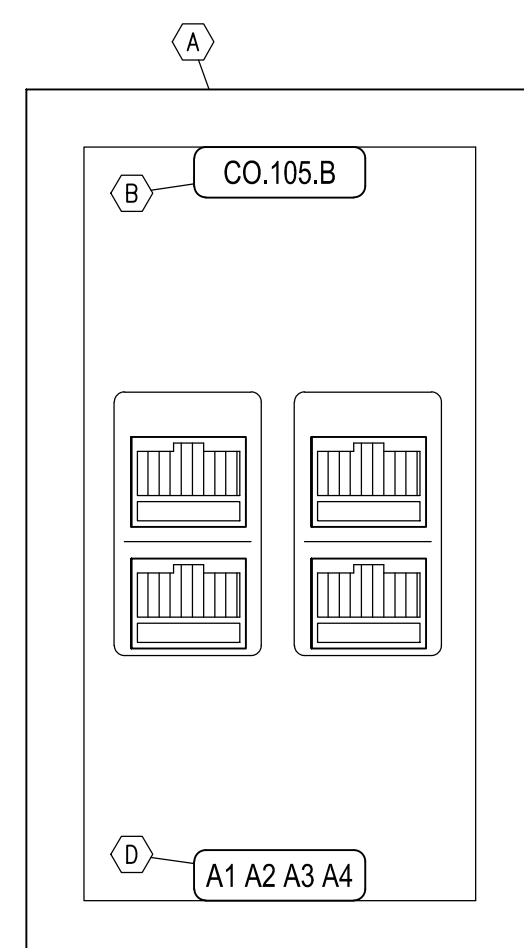
TYPICAL HORIZONTAL PATCH PANEL LAMINATED I.D. TAG DETAIL
NOT TO SCALE

PROTOTYPICAL LABELING NOTE
LABELING INDICATED IS PROTOTYPICAL AND INTENDED TO ILLUSTRATE IDENTIFICATION METHODOLOGY FOR ANY PROJECT. ROOM NUMBERS, OUTLET TYPES AND OUTLETS QUANTITIES INDICATED HAVE NO DIRECT RELATIONSHIP TO THIS PROJECT.



TYPE "D2" CO KEY NOTES:

- (A) TWO PORT FACEPLATE, COLOR FOG WHITE, ORTRONICS TRACKJACK. PROVIDE WITH TWO MINI-COM TIA CATEGORY 6 8-PIN MODULAR JACKS, COLOR FOG WHITE.
- (B) LASER PRINTED LABEL INDICATING ROOM NUMBER - SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.
- (C) LASER PRINTED LABEL INDICATING PATCH PANEL PORT(S). TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.



TYPE "D4" CO KEY NOTES:

- (A) FOUR PORT FACEPLATE, COLOR FOG WHITE, ORTRONICS TRACKJACK. PROVIDE WITH FOUR MINI-COM TIA CATEGORY 6 8-PIN MODULAR JACKS, COLOR FOG WHITE.
- (B) LASER PRINTED LABEL INDICATING ROOM NUMBER - SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.
- (C) LASER PRINTED LABEL INDICATING PATCH PANEL PORTS. TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

GENERAL LABELING NOTE

1. ALL COs, PROTECTOR BLOCKS, VOICE BLOCKS, AND HORIZONTAL PATCH PANELS SHALL BE LABELED USING THE FINAL "FISH" ROOM NUMBERS. OBTAIN FINAL "FISH" ROOM NUMBERS FROM THE ARCHITECT PRIOR TO LABELING.
2. ALL LABELS FOR COs, PROTECTOR BLOCKS, VOICE BLOCKS, AND HORIZONTAL PATCH PANELS SHALL BE PRODUCED USING FACTORY LABEL SHEETS FOR LASER PRINTERS MANUFACTURED FOR THE SPECIFIC DEVICE.
3. PROVIDE SAMPLE OF FACEPLATE AND OUTLET WITH LABELING FOR OWNER APPROVAL PRIOR TO INSTALLING AND LABELING ON SITE.

GENERAL TEXT WIDTH NOTE

- 1) USE ARIAL NARROW FONT, WHICH IS VERY COMPRESSED BY WIDTH. IF ADDITIONAL WIDTH COMPRESSION IS REQUIRED FOR UNUSUALLY LONG LABELS, USE THE MS WORD FORMAT-FONT-CHARACTER SPACING-CONDENSED-BY X POINTS (USE POINT REDUCTIONS OF LESS THAN ONE IN TENTHS OF A POINT - USE NO MORE REDUCTION THAN REQUIRED TO FIT LABEL).
- 2) LABELING TEMPLATES IN MS WORD ARE AVAILABLE FROM THE ENGINEER.

FACEPLATE COLOR NOTE

VERIFY ALL FACEPLATE COLORS WITH THE OWNER'S PROJECT MANAGER PRIOR TO PRE-INSTALLATION SUBMITTALS. PROVIDE ALTERNATE COLOR STANDARD WITH THE MANUFACTURER AT NO ADDITIONAL COST TO THE OWNER IF SO DIRECTED. COORDINATE WITH THE ENGINEER PRIOR TO ORDERING MATERIALS.

PROTOTYPICAL LABELING NOTE

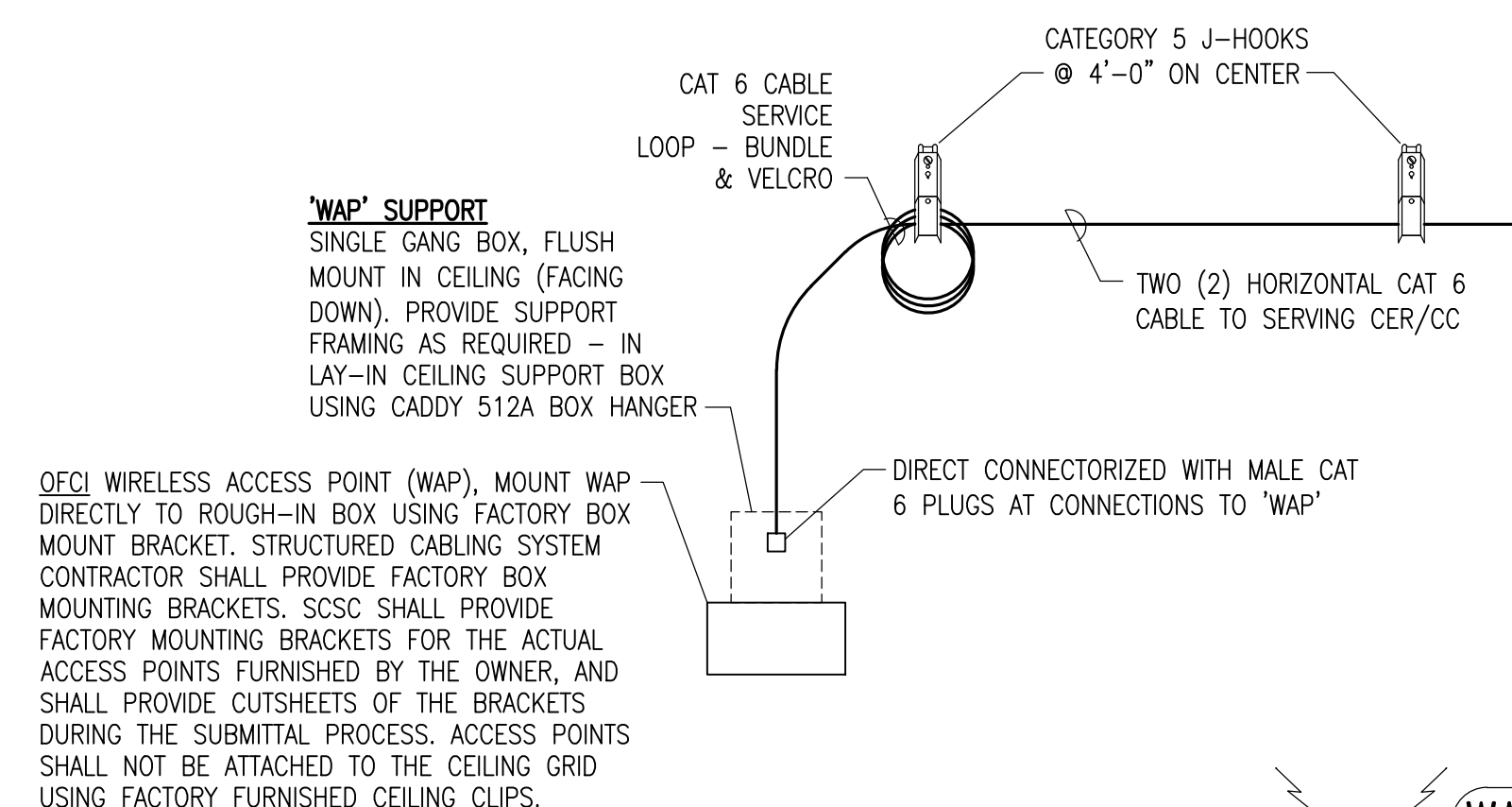
LABELING INDICATED ON THIS SHEET IS PROTOTYPICAL AND INTENDED TO ILLUSTRATE IDENTIFICATION METHODOLOGY FOR ANY PROJECT. ROOM NUMBERS, OUTLET TYPES AND OUTLETS QUANTITIES INDICATED HAVE NO DIRECT RELATIONSHIP TO THIS PROJECT.

TYPE "D2" COMMUNICATIONS OUTLET (CO)

NOT TO SCALE (D2 = TWO DATA/VOICE) ◀ D2

TYPE "D4" COMMUNICATIONS OUTLET (CO)

NOT TO SCALE (D4 = FOUR DATA/VOICE) ◀ D4



LAY-IN CEILING MOUNT WIRELESS ACCESS POINT (WAP) MOUNTING DETAIL
NOT TO SCALE

REVISIONS	
6/8/15	ADDENDUM 1

BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

SHEET TITLE:
**COMMUNICATIONS
DETAILS**

SHEET:
T-502

REVISIONS	
6/8/15	ADDENDUM 1

BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

SHEET TITLE:
**COMMUNICATIONS
DETAILS**

SHEET:
T-503

CP GROUNDING NOTES:

1. ALL GROUND CONNECTIONS SHALL BE MADE WITH HEAVY DUTY 2 HOLE COMPRESSION LUGS (HARGER GECLB4-2C FOR #4AWG, GECLB6-2C FOR #6AWG) AND 3/8" SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS (TWO 3/8" SS SCREWS AND NUTS PER 2 HOLE LUG).
2. PROVIDE GROUNDING BUSBAR IN EACH CP AS INDICATED. ELECTRICAL CONTRACTOR GROUND EACH BUSBAR TO THE BUILDING MAIN ELECTRICAL SERVICE GROUND (BUILDING IN WHICH THE CP IS LOCATED) WITH #4 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR. ELECTRICAL CONTRACTOR RUN #4 AWG CONDUCTOR FROM BUSBAR LOCATION TO BUILDING MAIN ELECTRICAL SERVICE GROUND IN EMT CONDUIT AND PROVIDE INSULATED GROUNDING BUSHING - MALLEABLE IRON STEEL CITY #BC-807 AT BOTH CONDUIT ENDS AND GROUND EACH END PER NEC. GROUNDING TO BUILDING STRUCTURE, CONDUITS, UTILITY PIPING, OR ELECTRICAL SUBPANELS IN LIEU OF BONDING TO BUILDING MAIN ELECTRICAL SERVICE GROUND IS NOT ACCEPTABLE.
3. GROUND CP CABINET TO BUSBAR WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR. IF CP HAS FACTORY GROUNDING POST PROVIDE HEAVY DUTY SINGLE HOLE COMPRESSION LUG (HARGER GECLX SERIES) WITH HOLE SIZE TO MATCH POST. IF CP DOES NOT HAVE FACTORY GROUNDING POST PROVIDE HEAVY DUTY 2 HOLE COMPRESSION LUG (HARGER GECLB6-2C SERIES) AND SECURE TO CP MAIN INTERIOR FRAME WITH TWO 3/8" SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS - DRILL TWO 7/16" HOLES IN FRAME AND REMOVE PAINT WITH FILE TO ENSURE ELECTRICAL CONTACT.
4. PROVIDE UL LISTED CONDUIT GROUNDING BUSHING ON END OF BACKBONE CONDUIT AND GROUND TO BUSBAR WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR. PLASTIC INSULATING BUSHING IS ALSO REQUIRED.

CP GENERAL NOTES:

CABLE ROUTING: ROUTE CABLES WITHIN CP AS INDICATED. PROVIDE WIRE MANAGEMENT ON BACKPANELS AND ON RACKS AS INDICATED AND AS REQUIRED TO FACILITATE ORGANIZED ROUTING OF CABLES AND PATCH CORDS. THE FINISHED INSTALLATION SHALL MEET THE APPROVAL OF THE ENGINEER FOR OVERALL QUALITY OF WORKMANSHIP, ORGANIZATION, AND NEATNESS OF APPEARANCE. SEE SINGLE LINE DIAGRAMS FOR CABLE TYPES, QUANTITIES AND CONNECTIONS.

CP LAYOUT: CP ARRANGEMENT AND EQUIPMENT LOCATIONS INDICATED ARE DRAWN TO SCALE. DO NOT MODIFY LAYOUT WITHOUT PRIOR APPROVAL OF ENGINEER. USE ALL BLACK HARDWARE ON FACE OF RACKS.

CP FASTENERS: ALL ATTACHMENTS MADE TO RACKS SHALL HAVE THREADED SCREWS, BOLTS AND ANY OTHER ROUGH SURFACES INSTALLED IN DIRECTION AWAY FROM ANY COMMUNICATIONS CABLEING. USE ONLY THREADED FASTENERS - TAPPING SCREWS ARE NOT ACCEPTABLE. ALL MOUNTING SCREWS ON FACE OF RACKS SHALL BE BLACK.

CP PATCH CORD ROUTING: SEE SINGLE LINE DIAGRAMS AND SPECIFICATIONS. BUNDLE WITH BLACK VELCRO STRAPS AT 6" ON CENTER (COLOR BLACK). BUNDLE FIBER OPTIC, VOICE, AND DATA PATCH CORDS SEPARATELY.

CATEGORY 6 TERMINATIONS: MAKE ALL TERMINATIONS IN STRICT ACCORDANCE WITH TIA GUIDELINES AS WELL AS THE MANUFACTURER'S PRINTED INSTRUCTIONS FOR BOTH THE CABLE AND THE TERMINATION DEVICE FOR ALL FIELD CONNECTIONS IN THE "HORIZONTAL CABLEING CHANNEL". STRIP CABLE JACKET BACK A MAXIMUM OF 1 INCH FROM THE POINT OF TERMINATION. MAINTAIN FACTORY SYMMETRICAL CABLE TWISTS TO WITHIN 0.5 INCHES (1.3 MM MAXIMUM) OF THE POINT OF TERMINATION. PROVIDE CABLE SLACK AT EACH END TO ALLOW MINIMUM OF FIVE (5) FUTURE RETERMINATIONS WITHOUT RE-ROUTING CABLE. - SEE CO MOUNTING DETAILS, BACKBOARD ELEVATIONS, AND CP DETAILS.

CP LOCATION and MOUNTING NOTES:

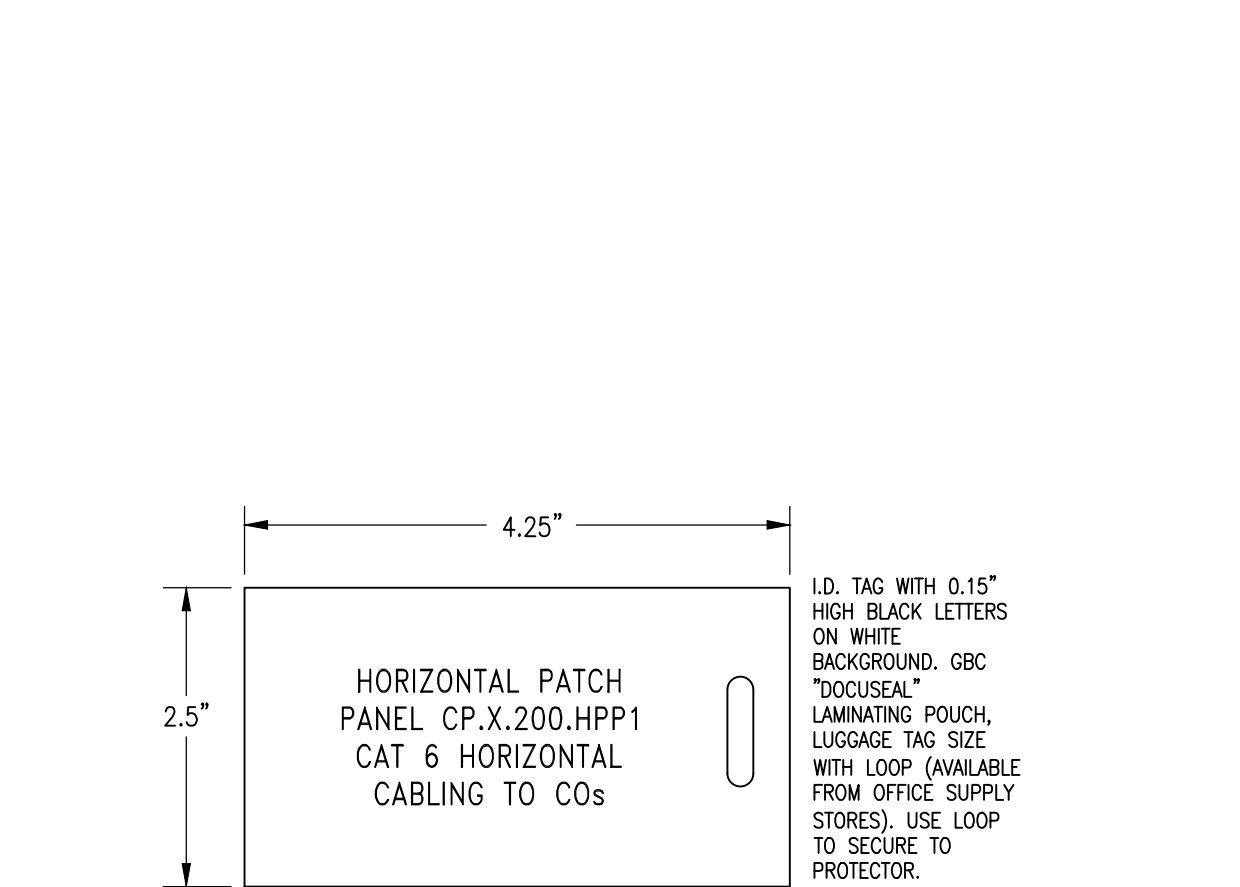
THE CONTRACTOR SHALL MOUNT COMMUNICATIONS PANELS ANYWHERE WITHIN THE PHYSICAL LIMITS OF THE ROOM IN WHICH THEY ARE INDICATED OR AT ALTERNATE CP LOCATIONS INDICATED ON PLANS AT NO ADDITIONAL COST TO THE OWNER. COMMUNICATIONS PANELS ARE LOCATED IN SPACES WITH LIMITED CLEARANCES. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EACH CP WITH THE OWNER'S PROJECT MANAGER PRIOR TO RUNNING CONDUIT AND MOUNTING CABINETS. EACH CP SHALL BE LOCATED DIRECTLY ABOVE PERMANENTLY PLACED CASEWORK TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL CONTACT BY SPACE OCCUPANTS.

WHEN LOCATING CPs, PARTICULAR ATTENTION SHALL BE GIVEN OBSTRUCTIONS THAT MAY HINDER THE DUAL SWING-OUT FUNCTION OF THE CP CABINETS. PANEL DOOR SWING DIRECTION CAN BE ADJUSTED BY FLIPPING THE PANEL 180 DEGREES BEFORE MOUNTING ON WALL. FINAL MOUNTING SHALL PROVIDE FULL ACCESS TO INTERIOR OF CABINET REAR AS INDICATED ON PLANS.

THE ORIENTATION OF THE BACKBONE CONDUIT AND HORIZONTAL SLEEVES ENTERING THE TOP OF EACH CP MAY VARY TO SUIT FIELD CONDITIONS. SEE PLAN FOR CONDUIT ORIENTATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE BEST METHOD OF MOUNTING AND FASTENING EACH CP IN THE FIELD TO ENSURE THE STRUCTURAL INTEGRITY OF THE CP INSTALLATION. THE CONTRACTOR SHALL UTILIZE THE TYPES AND SIZES OF FASTENERS BEST SUITED TO EACH APPLICATION, AND SHALL PROVIDE SUPPLEMENTAL REINFORCING OF THE SUPPORTING WALL AS REQUIRED TO ACHIEVE ADEQUATE SUPPORT.

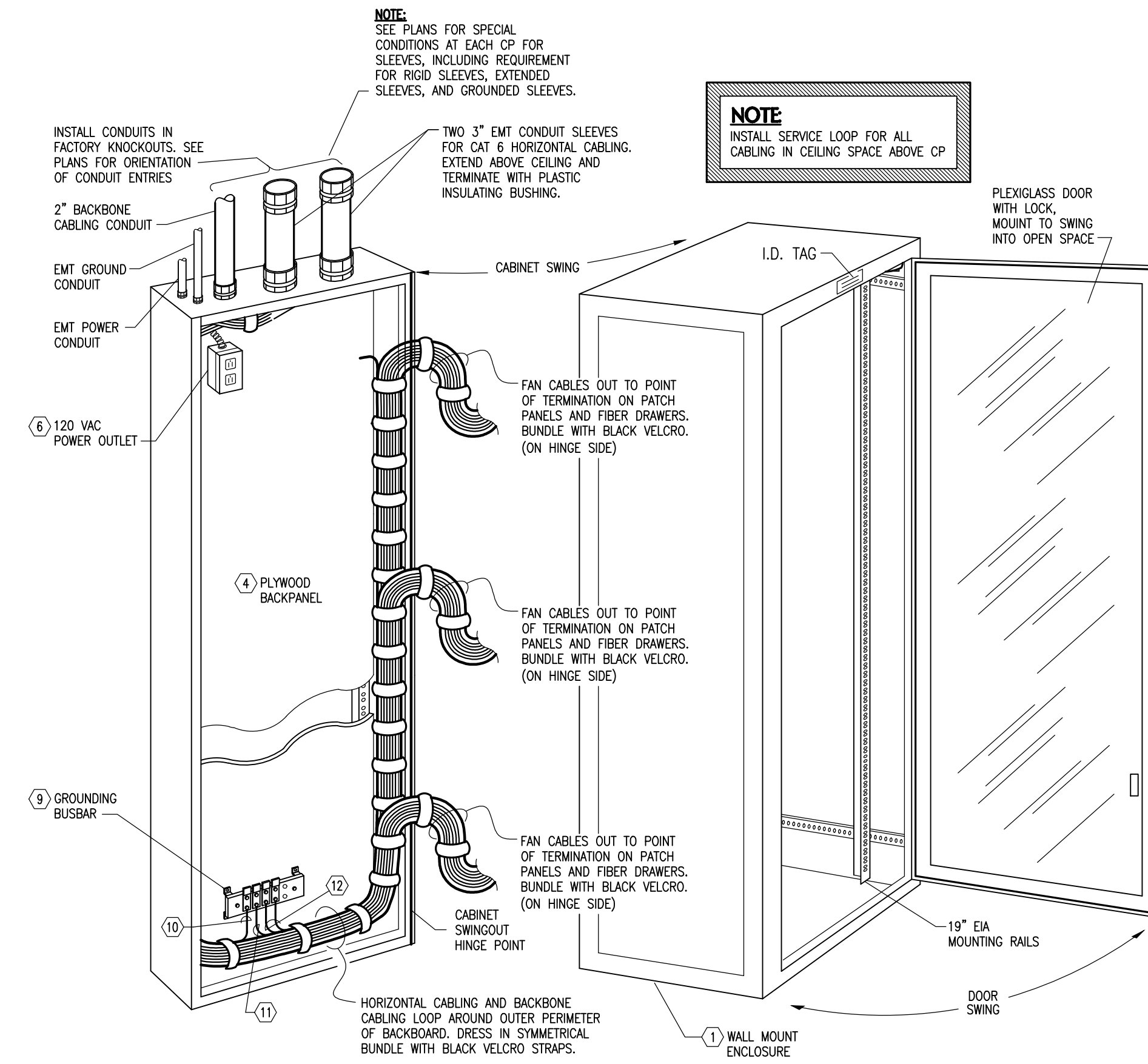
THE CONTRACTOR SHALL PROTECT CPs BY ENCAPSULATION IN PLASTIC THROUGHOUT THE CONSTRUCTION PROCESS TO MINIMIZE THE POTENTIAL FOR INTRUSION OF CONSTRUCTION DUST AND DEBRIS. INTERIOR CP COMPONENTS INCLUDING PATCH PANELS, SURGE PROTECTORS, AND ELECTRONICS SHALL NOT BE INSTALLED UNTIL THE LATTER STAGES OF THE PROJECT WHEN MOUNTING OF CPs, INSTALLATION OF FINISHED BACKBOARDS, AND INSTALLATION OF CONDUITS, POWER AND GROUNDS ARE ALL COMPLETE.



TYPICAL HORIZONTAL PATCH PANEL LAMINATED ID TAG DETAIL
NOT TO SCALE

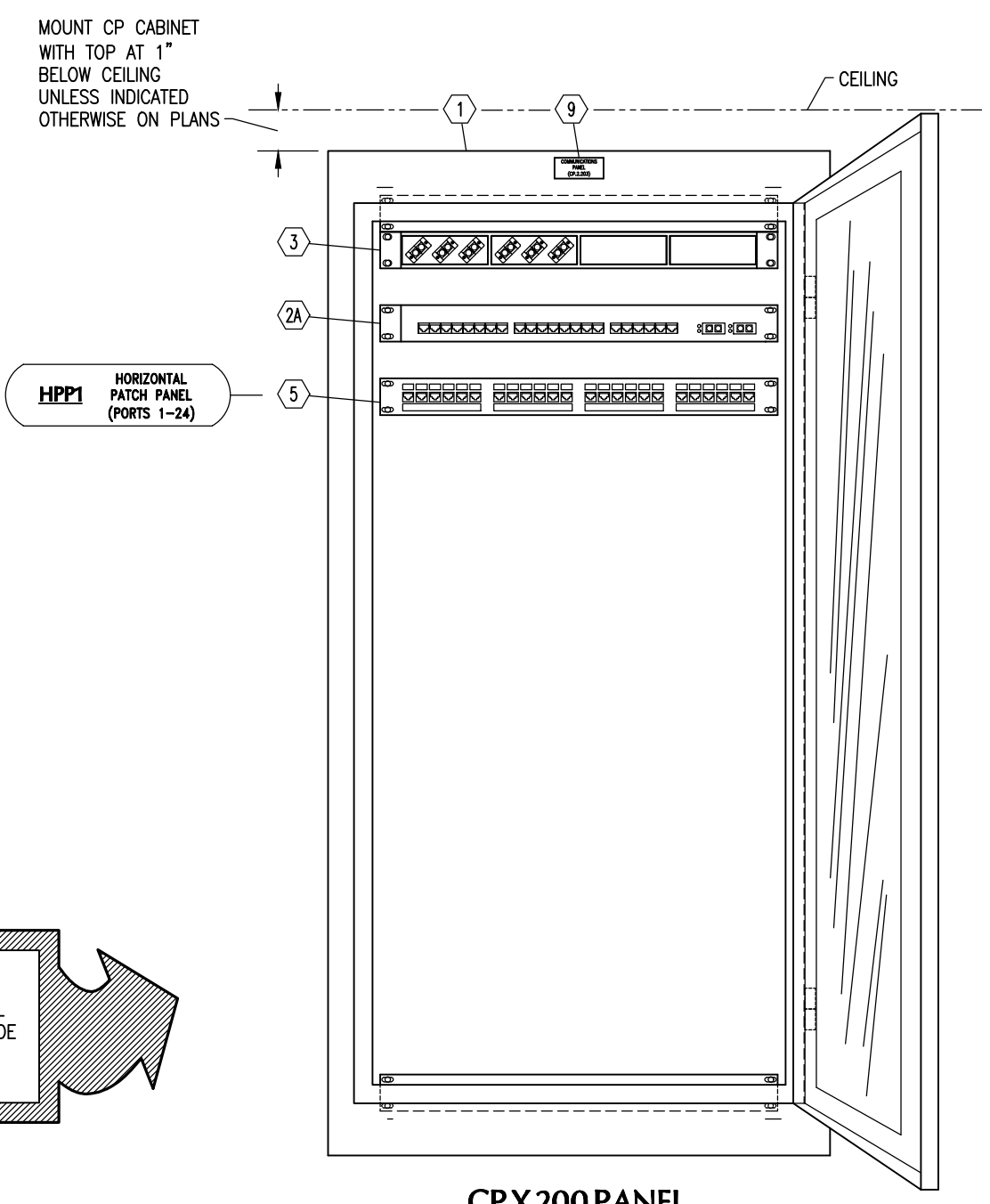
CP INSTALLATION DETAIL KEY NOTES

- 1 WALL MOUNT/SWINGOUT CABINET, SEE "CP EQUIPMENT KEY NOTES" THIS SHEET. MOUNT ENCLOSURE TO WALL USING THE MANUFACTURER'S APPROVED HARDWARE, HARDWARE SIZES AND INSTALLATION INSTRUCTIONS. SEE "CP LOCATION AND MOUNTING NOTES" THIS SHEET.
- 2 NOT USED
- 3 NOT USED
- 4 PLYWOOD BACKPANEL, 1/2" THICK A-C GRADE. PREP PLYWOOD WITH TWO COATS "KILZ" PRIMER AND PAINT WITH TWO COATS SEMI-GLOSS GREY ENAMEL PAINT (FIRE RETARDANT). SIZE BACKPANEL TO MAXIMUM INSIDE DIMENSIONS OF THE RIGHT, LEFT AND BOTTOM OF ENCLOSURE AND 4" FROM THE TOP. MOUNT BACKBOARD TO ENCLOSURE ON ONE SET OF 19" EIA MOUNTING RAILS.
- 5 BY ELECTRICAL CONTRACTOR: 120 VAC DUPLEX SURGE SUPPRESSION POWER RECEPTACLE ON DEDICATED CIRCUIT. MOUNT SINGLE GANG BOX IN CP AS INDICATED, EXTEND 1/2" FLEXIBLE METALLIC CONDUIT FROM BOX UP THRU RACEWAY TO JUNCTION BOX ABOVE CEILING, THEN RUN TO SERVING POWER PANEL - SEE ELECTRICAL DRAWINGS.
- 6 NOT USED
- 7 NOT USED
- 8 NOT USED
- 9 GROUNDING BUSBAR, HARGER GBB-14410G WITH TWO ROWS OF 7/16" HOLES AT 1" SPACING EACH WAY. MAKE ALL CONNECTIONS WITH TWO HOLE LONG BARREL COMPRESSION LUGS AND BOND TO BUSBAR WITH TWO 3/8" SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS. SEE "CP GROUNDING NOTES".
- 10 BY ELECTRICAL CONTRACTOR: #4 AWG TO BUILDING MAIN ELECTRICAL SERVICE GROUND. SEE "CP GROUNDING NOTES".
- 11 #6 AWG TO GROUND CP CABINET. SEE "CP GROUNDING NOTES".
- 12 NOT USED



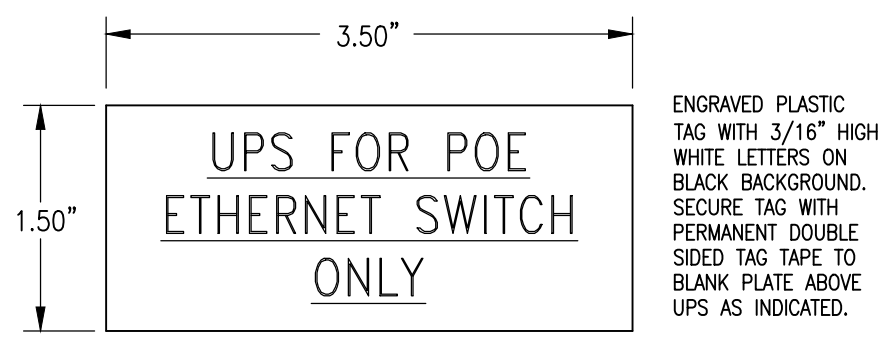
COMMUNICATIONS PANEL (CP) TYPICAL INSTALLATION DETAILS

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

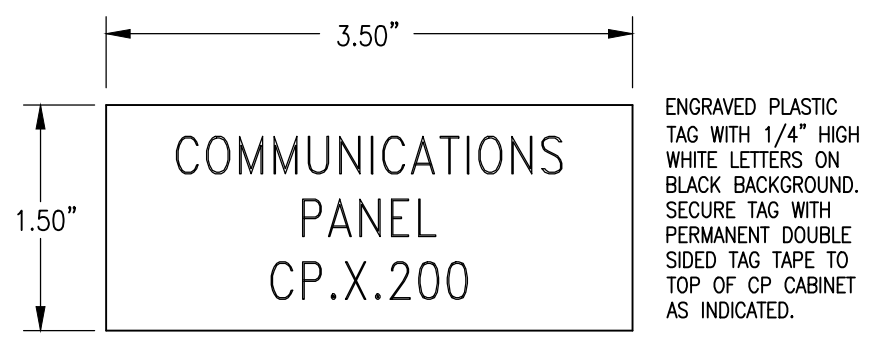


COMMUNICATIONS PANEL (CP) TYPICAL DETAILS

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



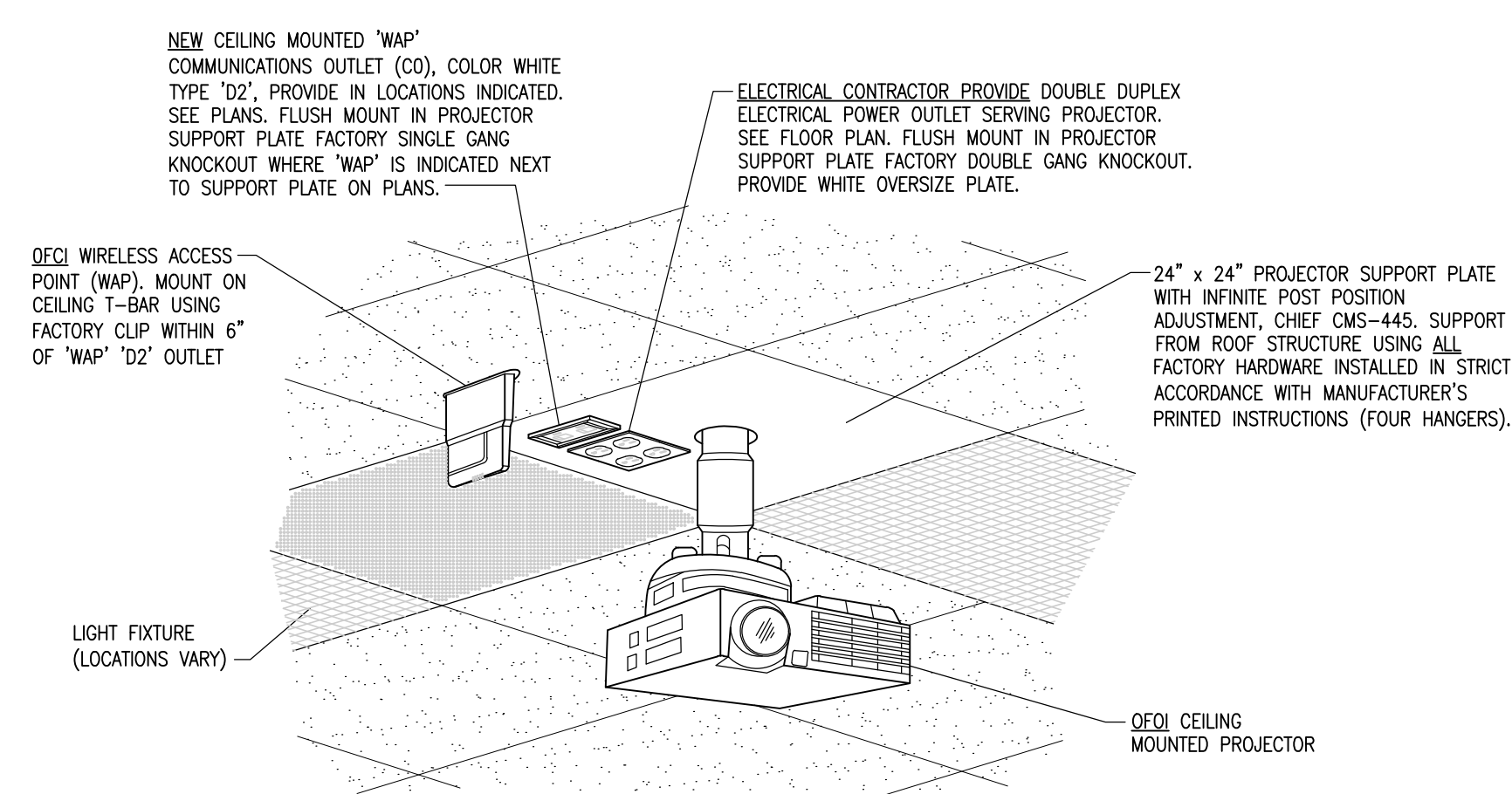
TYPICAL UPS ENGRAVED TAG DETAIL
NOT TO SCALE



TYPICAL COMMUNICATIONS PANEL ENGRAVED TAG DETAIL
NOT TO SCALE

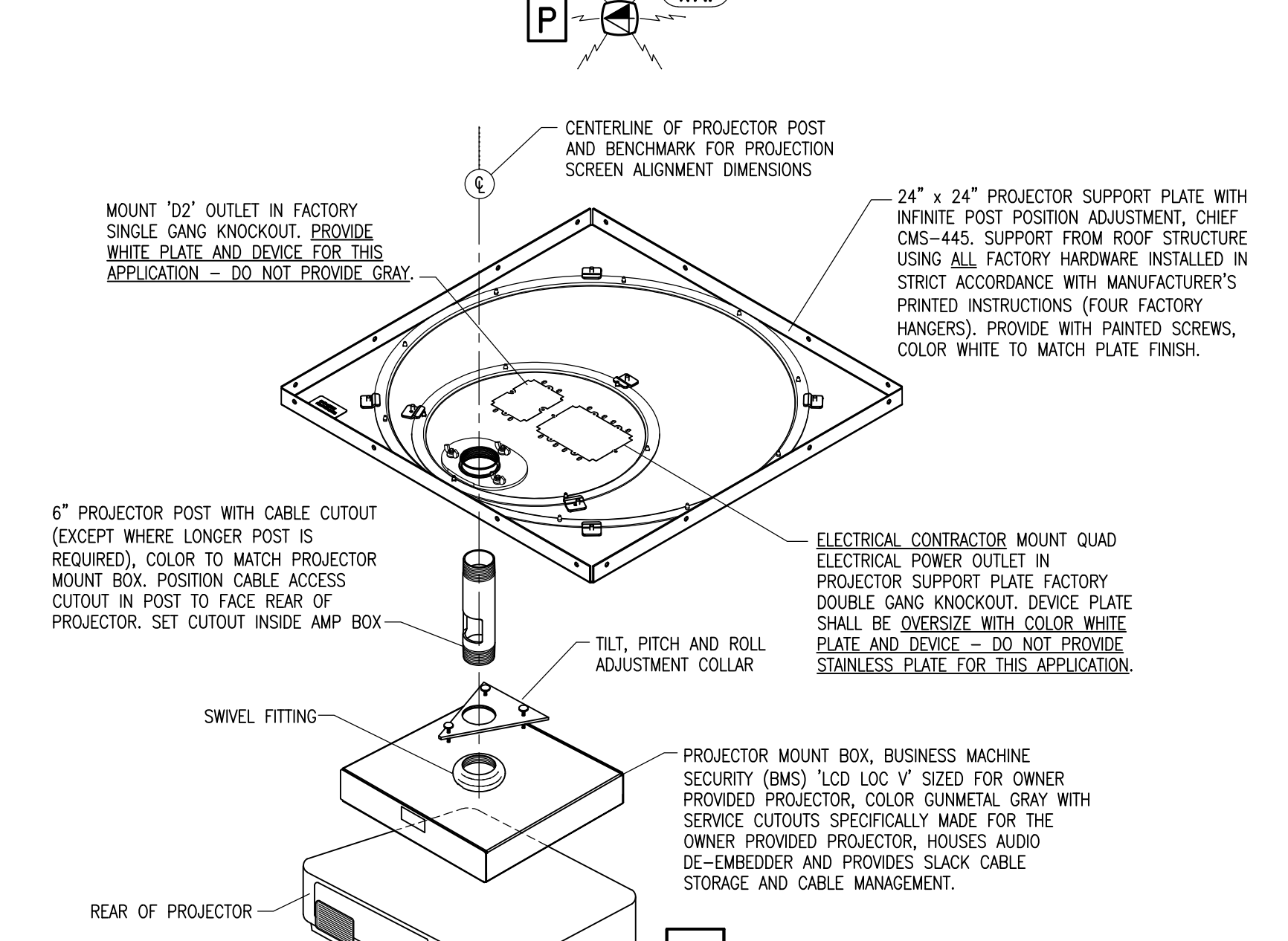
NOTE
SEE DATA SINGLE LINE DIAGRAM FOR ACTUAL COMPONENT QUANTITIES IN EACH CP. PROVIDE SINGLE RACK SPACE BLANK FILLER PLATES WHERE COMPONENTS ARE NOT REQUIRED.

- CP EQUIPMENT KEY NOTES:**
- 1 WALL MOUNT/SWING OUT CABINET, 48" (H) x 24" (W) x 24" (D) ENCLOSURE GREAT LAKES GL48WS WITH 48WS-02 DOOR AND 48WS-11 LOUVERED SIDE PANELS. PROVIDE TWO PARS EIA MOUNTING RAILS FOR SWINGOUT CABINET SECTION AND ONE ADDITIONAL PAIR EIA MOUNTING RAILS FOR BACKPANEL MOUNTING. ALL RAILS SHALL HAVE A UNIVERSAL 5/8", 5/8", 1/2" ALTERNATING HOLE PATTERN. PROVIDE WITH FACTORY SMOKE PLEXIGLASS DOOR WITH INTEGRAL LOCK/KEY (48WS-02), LOUVERED SIDE PANELS (48WS-11) AND FAN ASSEMBLY WITH FAN GUARD AND TWO 75 CFM FANS (7217WS IBM WHITE). CABINET COLOR SHALL BE FACTORY WHITE (IBM WHITE) FINISH.
 - 2A OWNER FURNISHED CONTRACTOR INSTALLED (CFCI): POE ENABLED ETHERNET SWITCH. SEE "DATA SYSTEM SINGLE LINE CONFIGURATION DIAGRAM".
 - 3 FIBER DRAWER FOR BACKBONE CABLE, RACK MOUNT. SEE "DATA SINGLE LINE CONFIGURATION DIAGRAM".
 - 4 NOT USED
 - 5 CATEGORY 6 HORIZONTAL PATCH PANEL (HPP), SEE "DATA SINGLE LINE CONFIGURATION DIAGRAM".
 - 6 NOT USED.
 - 9 IDENTIFICATION TAG AT TOP OF PANEL, SEE "TYPICAL COMMUNICATIONS PANEL ENGRAVED TAG DETAIL".



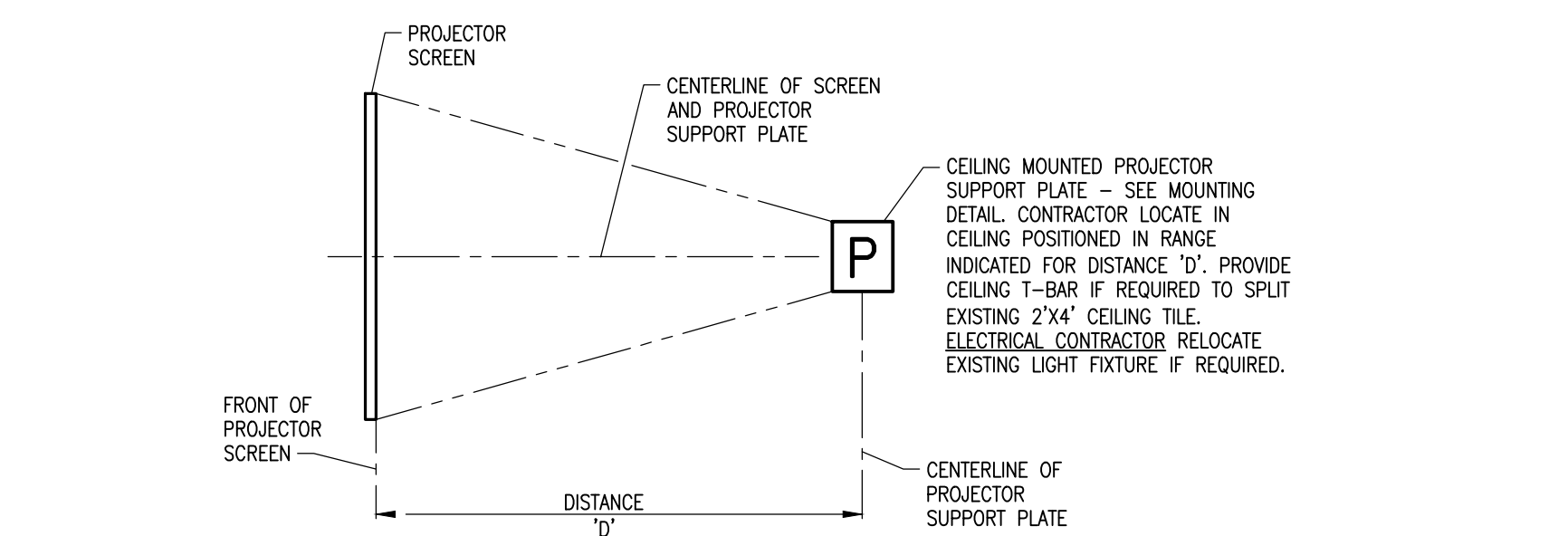
TYPICAL CEILING LAYOUT - PROJECTOR SUPPORT PLATE and WAP MOUNTING

NOT TO SCALE



TYPICAL PROJECTOR MOUNTING DETAIL - LAY-IN CEILING

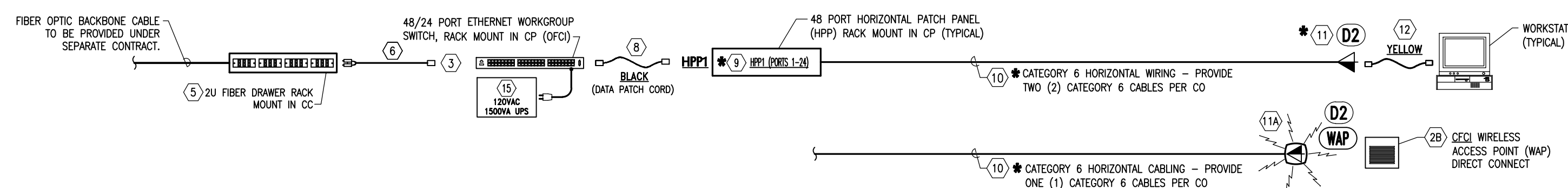
NOT TO SCALE



PROJECTOR SUPPORT PLATE LOCATION GUIDE

PROJECTOR PLATE DISTANCE 'D'	
SCREEN WIDTH	DISTANCE 'D'
VARIABLES	VARIABLES, PROVIDE PROJECTOR MANUFACTURER NUMBER TO ENGINEER

COMMUNICATIONS PANEL - CPX.102



DATA PATCH CORD NOTES

- FURNISH PATCH CORDS TO OWNER LOOSE PRIOR TO INSTALLATION. VERIFY ALL QUANTITIES AND LENGTHS WITH OWNER'S PROJECT MANAGER AND PROVIDE SIGNED COPY OF RECEIPT TO ENGINEER AT PROJECT SUBSTANTIAL COMPLETION.
- SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR PATCH CORD DELIVERY AND INSTALLATION. ALL PATCH CORDS SHALL BE NEATLY ROUTED, BUNDLED AND SECURED AT 6" ON CENTER WITH BLACK VELCRO STRAPS. BUNDLE DATA PATCH CORDS SEPARATELY. BUNDLE FIBER OPTIC PATCH CORDS SEPARATELY FROM COPPER PATCH CORDS.
- PROVIDE EXCEL SPREADSHEET IDENTIFYING CONNECTIONS MADE.
- PROVIDE 40 CATEGORY 6 BEIGE 18 INCH FACTORY MADE PATCH CORDS FOR THE RACK.
- PROVIDE 30 CATEGORY 6 (COLOR BY OWNER) 3', 5' AND 7' FACTORY MADE PATCH CORDS FOR WORKSTATION TERMINATION.

DATA SYSTEM SINGLE LINE CONFIGURATION DIAGRAM

NOT TO SCALE

NOTE: RUN ALL CABLES CONTINUOUS BETWEEN TERMINATION POINTS INDICATED WITH NO INTERMEDIATE SLICES OR TERMINATIONS.

APPROVED CATEGORY 6 HORIZONTAL CABLES

APPLICATION	MANUFACTURER	PART NUMBER	UL JACKET	JACKET COLOR
RISER	COMMSCOPE	ULTRAPIPE 6E0MR	CMR	GREY
	GENERAL	GENSPEED 6500 7133329	CMR	GREY
	HITACHI	HI-NET SUPRA 30022-8	CMR	GREY
	SUPERIOR ESSEX	NEXTGAIN 54-246-3A	CMR	GREY
	MOHAWK	GigaLAN M57422	CMR	GREY
	MOLEX	CAA-0183-08	CMR	GREY

CATEGORY 6 TERMINATION NOTE

MAKE ALL TERMINATIONS IN STRICT ACCORDANCE WITH TIA GUIDELINES AS WELL AS THE MANUFACTURER'S PRINTED INSTRUCTIONS FOR BOTH THE CABLE AND THE TERMINATION DEVICE FOR ALL FIELD CONNECTIONS IN THE "HORIZONTAL TELECOMMUNICATIONS LINK". STRIP CABLE JACKET BACK A MAXIMUM OF 1 INCH FROM THE POINT OF TERMINATION. MAINTAIN FACTORY SYMMETRICAL CABLE TWISTS TO WITHIN 0.5 INCHES (13 MM MAXIMUM) OF THE POINT OF TERMINATION. PROVIDE CABLE SLACK AT EACH END TO ALLOW MINIMUM OF FIVE (5) FUTURE RETERMINATIONS WITHOUT RE-ROUTING CABLE. SEE CO MOUNTING DETAILS, BACKBOARD ELEVATIONS, AND CP DETAILS.

DATA SYSTEM SINGLE LINE KEY NOTES

- OWNER FURNISHED CONTRACTOR INSTALLED (CFCI): MANAGED LAYER 3 POE ETHERNET WORKGROUP SWITCH, 48 UTP ONE GIGABIT POE PORTS AND ONE 10 GIGABIT UPLINK PORT. MOUNT IN RACK, PROVIDE STARTUP/CONFIGURATION PER MANUFACTURER'S PRINTED INSTRUCTIONS AND PROGRAM WITH IP ADDRESS SUPPLIED BY OWNER (BRIAN JOHNSON).
- OWNER FURNISHED CONTRACTOR INSTALLED (CFCI): WIRELESS ACCESS POINT.
- 2U FIBER DRAWER, 12 PORT LC TO LC FIBER THRU, 12 EA. UNICAM CONNECTORS.
- FIBER OPTIC PATCH CORD, DUPLEX FIBER, 50/125 OM3 MULTIMODE, DUAL 'LC' CONNECTORS ONE END x OTHER END TYPE TO SUIT OWNER FURNISHED EQUIPMENT, COLOR BY OWNER. PROVIDE QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. VERIFY END CONNECTORS REQUIRED WITH OWNER PRIOR TO PURCHASING, SEE "FIBER PATCH CORD NOTE" THIS SHEET.
- EQUIPMENT ROOM DATA PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6 (MINIMUM) FOUR PAIR 100-OHM UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, COLOR BLACK WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, SIEMON M06-8-T-XX-01. FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. PROVIDE PATCH CORD QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. PROVIDE DOCUMENTATION OF FACTORY TESTING CATEGORY-6 REQUIREMENTS AT SUBMITTAL.
- EQUIPMENT ROOM PATCH CORDS BETWEEN POE SWITCH AND HORIZONTAL PATCH PANEL PORTS SERVING WIRELESS ACCESS POINTS, FACTORY TERMINATED AND TESTED CATEGORY-6 (MINIMUM) FOUR PAIR 100-OHM UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, COLOR RED WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, SIEMON M06-8-T-XX-03. FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. PROVIDE PATCH CORD QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. PROVIDE DOCUMENTATION OF FACTORY TESTING CATEGORY-6 REQUIREMENTS AT SUBMITTAL.
- TIA CATEGORY 6 HORIZONTAL PATCH PANEL, 48 PORT, ANGLED, TIA 568A PINOUT, ORTRONICS. PROVIDE WITH FACTORY PLASTIC LABEL HOLDERS, DESIGNATION LABELS, REAR CABLE MANAGERS, AND MOUNTING HARDWARE. PROVIDE WITH FOG WHITE ORTRONICS JACKS AND DARG GREY ICONS.
- TIA CATEGORY 6 HORIZONTAL CABLING, 4 PAIR UTP, 24 GAGE SOLID COPPER CONDUCTORS. MAXIMUM INSTALLED LENGTH 90 METERS (295'). PROVIDE DOCUMENTATION OF CURBULC UL CERTIFICATION WITH SUBMITTALS. PROVIDE WITH CMR (RISER) JACKET, COLOR GREY. SEE SCHEDULE THIS SHEET FOR APPROVED CABLES.
- TYPE "D2" COMMUNICATIONS OUTLET (CO) WITH TWO (2) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS.
- TYPE "WAP" COMMUNICATIONS OUTLET (CO) WITH TWO (2) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS.
- WORKSTATION PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6 (MINIMUM) FOUR PAIR 100-OHM UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, COLOR YELLOW WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, SIEMON M06-8-T-XX-05. FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. PROVIDE PATCH CORD QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. PROVIDE DOCUMENTATION OF FACTORY TESTING CATEGORY-6 REQUIREMENTS AT SUBMITTAL.
- UNINTERRUPTIBLE POWER SUPPLY (UPS), APC SMARTUPS 1500 VA. RACK MOUNT IN CP.

PSC WELDING SHOP

UNDERWOOD AVE., PENSACOLA, FL, 32504

REVISIONS	
6/8/15	ADDENDUM 1

BTA PROJECT NO: 142615.02
SHEET DATE: 05/02/16

SHEET TITLE:
**COMMUNICATIONS
SINGLE LINE
DIAGRAM**

SHEET:
T-601



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