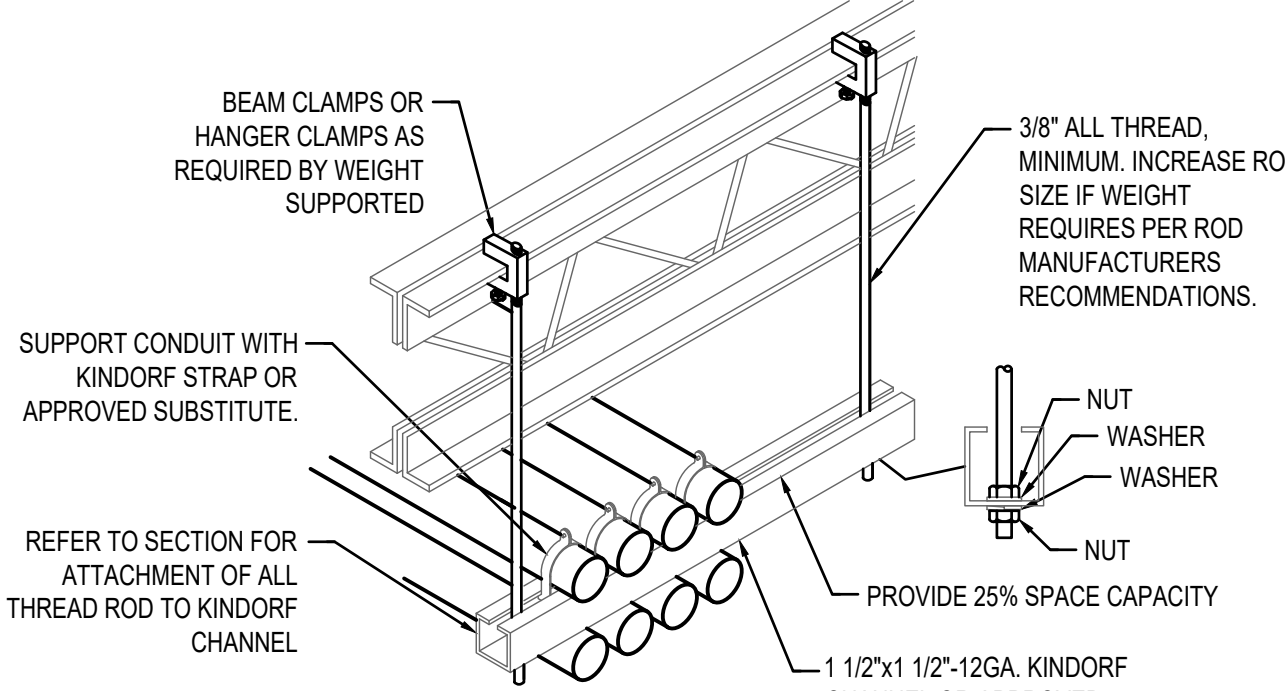
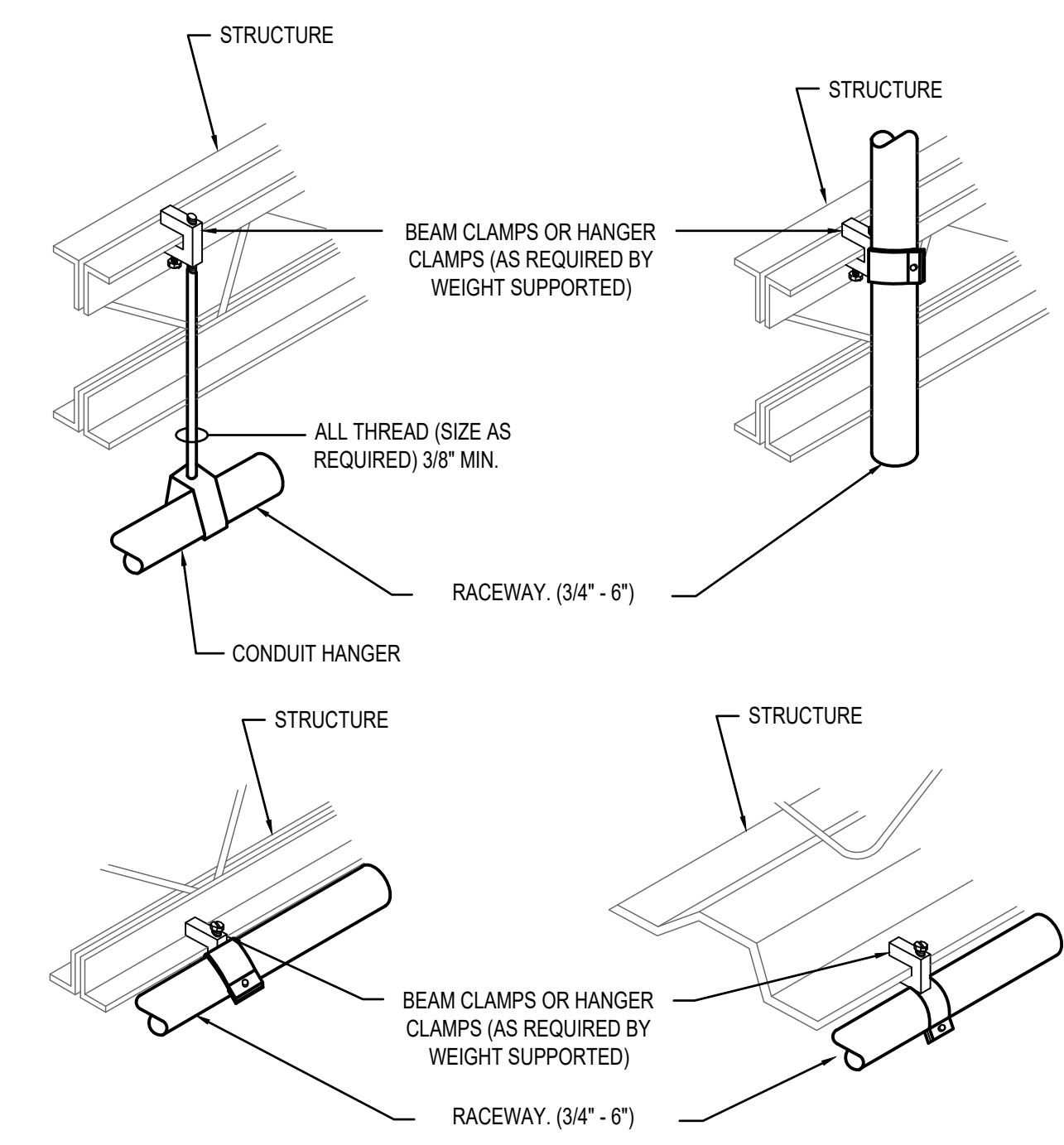


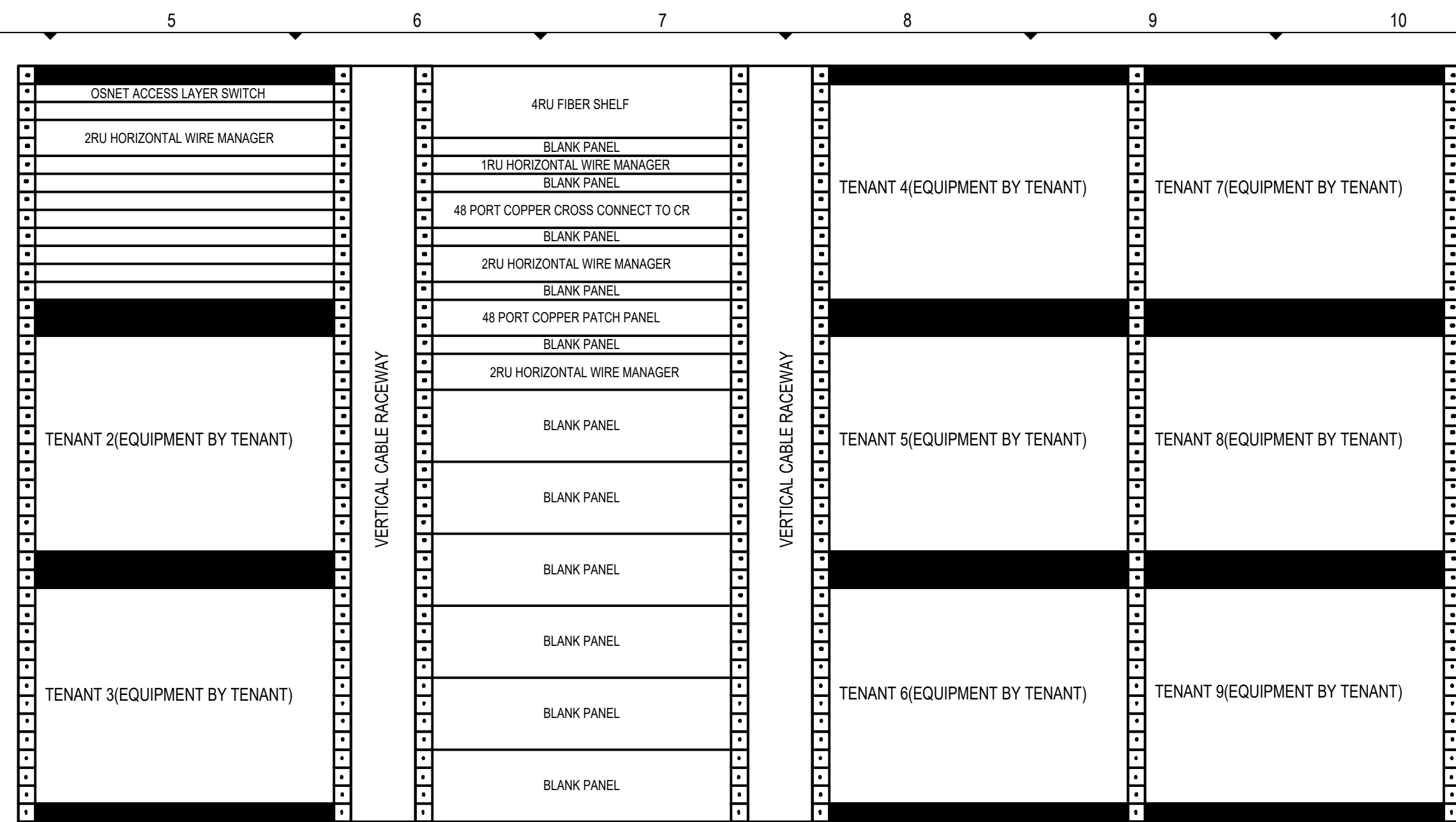
1 RECESSED FIXTURE MOUNTING DIAGRAM
E501 NO SCALE



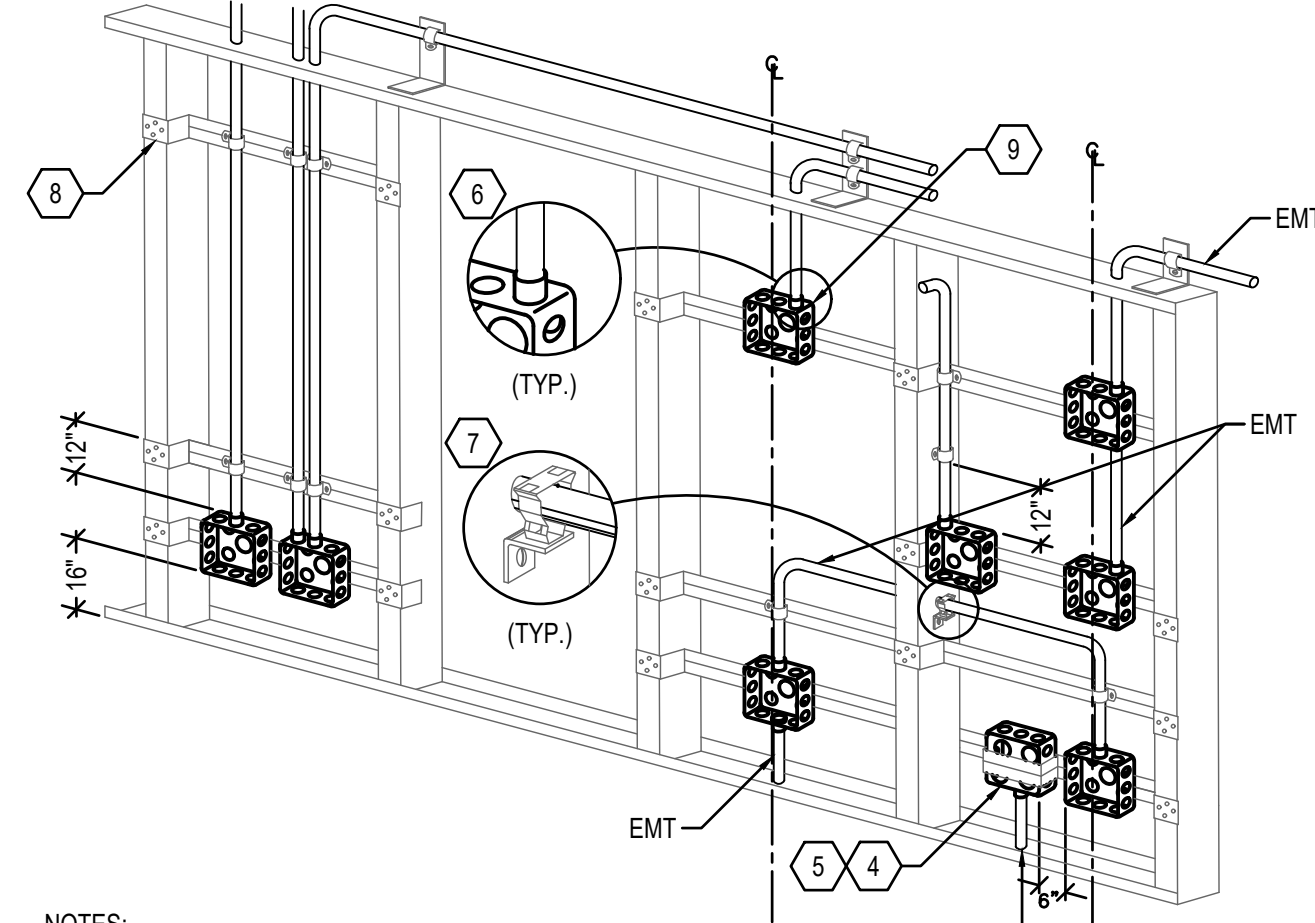
2 TRAPEZE SUPPORT DETAIL
E501 NO SCALE



3 RACEWAY SUPPORT METHODS DIAGRAM
E501 NO SCALE



5 TELECOM ROOM CBSW-1-047 RACK ELEVATIONS
E501 NO SCALE



4 TYPICAL ROUGH-IN DETAIL
E501 NO SCALE

LUMINAIRE SCHEDULE											
TYPE	FITTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTS	QTY	LAMPS		MOUNTING	DIMMING	VA	NOTES
						TYPE					
DL1	DOWNLIGHT 4" DIA. RECESSED LED DOWNLIGHT WITH DIM TO WARM OPTION. FLOOD BEAM SPREAD AND MATTE WHITE FLANGE.	AMERLUX	HDL-HP-R-NC-A17-MWW-FL-30	120	1	LED	582 LUMENS 3000K	RECESSED	0-10V	15	
DL2	DOWNLIGHT 6" DIA. RECESSED LED DOWNLIGHT. DIFFUSE LENS. WHITE TRIM.	MAXILLUME	HH6-LED-2000L-DIM10-120-WD-30K-85-HH6-6501-CL-WH	120	1	LED	2,000 LUMENS 3000K	RECESSED	0-10V	27	
DL3	DOWNLIGHT 3.5" DIA. RECESSED LED DOWNLIGHT WITH DIM TO WARM OPTION.	AMERLUX	HORNET-HP-R/SR-NC-FRAME-T-2-120-0-10V	120	1	LED	822 LUMENS 3000K	RECESSED	0-10V	15	
NL1	LINEAR RECESSED 2X4 LINEAR RECESSED FLAT PANEL SERIES LED FIXTURE. STANDAR WHITE FINISH.	MAXLITE	MILFP-24EP-40-35	120	1	LED	4,612 LUMENS 3500K	RECESSED	0-10V	40	
PL1	PENDANT MOUTH BLOWN ETCHED OPAL GLASS WITH INTEGRAL SWIVEL AND OPTIONAL DOWNRODS INCLUDED. DRIVER INSTALLED WITHIN JUNCTION BOX.	WAC LIGHTING	PD-S2313-806L-8N	120	1	LED	777 LUMENS 3000K	PENDANT		14	
PL2	PENDANT GAMBIT 7 LIGHT CLEAR CHANDELIER WITH LED LAMPING. MAX WATTAGE PER BULB IS 5W.	ALW	LP1MR1SD-D4CA-DECOR-3000K-0/10V/1%-EXT-F-WH-UNV	120	1	LED	1,901 LUMENS 3000K 80CRI	PENDANT	0-10V	57.6	
PL3	PENDANT	TECH LIGHTING	CROSSBLEND LED PENDANT	120	1	LED		PENDANT		14	
WL2	WALL LINEAR LED STRIP LIGHT 24" LENGTH	ANTERAS LIGHTING	GLX1-21-E830 WITH 3PC12 & JBC1/JBC1S	120	1	LED	750 LUMENS 3000K	MILLWORK	0-10V	9	
XL1	EXIT DEVICE DUAL VOLTAGE INPUT. WEDGE SHAPED PANEL WITH UNIVERSAL WALL OR CEILING MOUNTING. LED GREEN ILLUMINATION.	SURE-LITES LITHONIA MCPHILBEN DUALITE	ELX8-1-00-95-G (SEE PLANS FOR CHEVRONS)	120	1	LED GREEN		UNV	NA	5	

Luminaire Schedule General Notes:

- Refer to Luminaire description for fixture requirements. Manufacturers model numbers may not be specific or complete. The contractor is responsible to provide complete fixtures as described on this schedule with all mounting hardware and equipment for a complete installation.
- Refer to the architectural reflected ceiling drawings for exact fixture locations and ceiling types. Verify exact ceiling types and bring to the attention of the architect and electrical engineer any discrepancies prior to bid. Fixtures shall match architectural ceiling types.
- Provide all fixture support and seismic bracing to secure fixture to structure, walls and ceiling systems. Refer to mounting details for additional requirements. Provide all pole bases as shown on the details.
- Prior approval shall be required for all manufacturers who are not listed on this schedule. The prior approvals shall be submitted to the electrical engineer (7) working days prior to the bid. Prior approvals received after this time cut-off shall not be reviewed or approved.
- Submittals for prior approval shall be equivalent to the specified fixtures and reviewed and signed by the principle of the organization that is submitting for approval. Provide complete fixture submittals as listed in the specification. All information that does not apply to the fixture being submitted shall be crossed out. The electrical engineer shall be the final determination if the fixture is equivalent or not.
- Fixtures that have been reviewed and approved as equivalent to the specified fixtures shall be listed in an addendum prior to bid. Light fixtures without prior approval are rejected and contractor shall base their bid on the approved listed fixtures. A verbal approval will not be given or approved by VBFA at any time.
- Color temperature for all lamping shall be 4000K unless noted otherwise in the schedule.
- Verify exact fixture finishes with the architect prior to submittal.
- Provide minimum 5 year warranty on all light fixtures.
- LED light fixtures shall meet LM79 and LM80 standards with +50,000 hour L70 lamp life
- Luminaire shall be listed per NEC 410.6.
- Lumens specified for fixtures with integral LEDs are total delivered fixture lumens
- Fixtures identified as emergency on the plans shall be provided with an emergency battery pack or remote inverter with a 1400 lumen output minimum for each emergency fixture.

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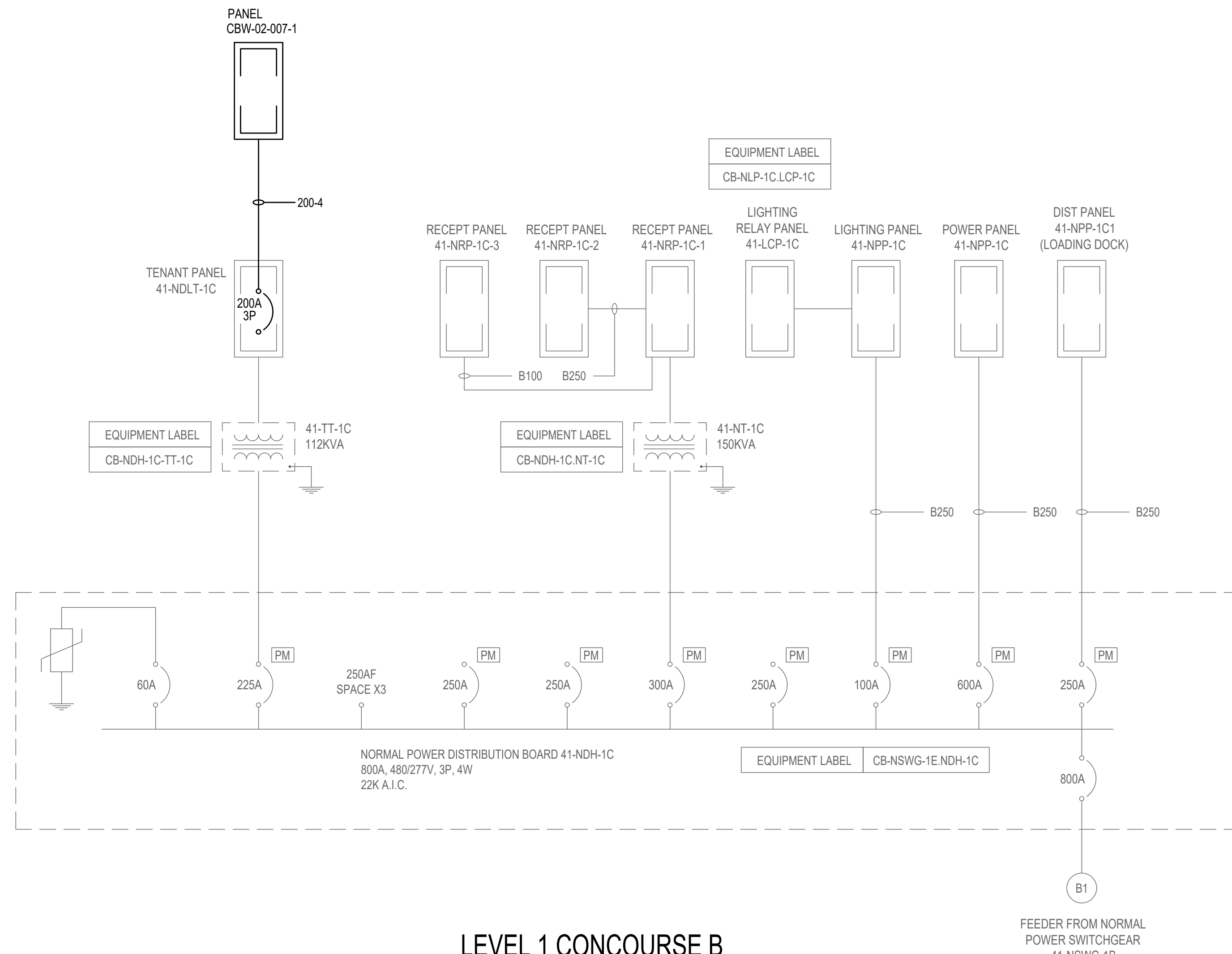
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vbfa project #: X00TB

NELCO ARCHITECTURE, INC.
REG. (SEAL) PROFESSIONAL ENGINEER
No. 7877350-2202
RYAN C. VAN VOAST
1/31/2020
STATE OF UTAH

PROJECT INFORMATION
XpresSpa
SLC AIRPORT
776 N TERMINAL DRIVE
CBW-2-017
SALT LAKE CITY, UT 84122
PROJECT #:
19.0003851.000

ACTUAL SHEET SIZE IS 24"x36"
SHEET INFORMATION
ELECTRICAL
DETAILS
DRAWN BY: AC
REVIEWED BY: KC
SCALE:
AUTHORIZED FOR:
30% REVIEW SET

E501



**LEVEL 1 CONCOURSE B
EXISTING PARTIAL - ONE LINE DIAGRAM**
E701 NO SCALE

EQUIPMENT SCHEDULE													
TYPE	DESCRIPTION	ELECTRICAL				OVER CURRENT PROTECTION					STR	REMARKS	
		VIPH	LOAD	FLA	COND SIZE	OC/P/MOCP	TYPE	DISC SIZE/PL	FUSE SIZE	NEMA SIZE			
EF-1	EXHAUST FAN	120/1	3/4 HP	13.8	3/4"	25	C1	-	-	-	-	4A	
IWH-1	ELECTRIC WATER HEATER	208/1	4.1 KW	19.7	3/4"	30	C1	30/2	25	-	-	1A	
IWH-2	ELECTRIC WATER HEATER	208/1	4.1 KW	19.7	3/4"	30	C1	30/2	25	-	-	1A	

ABBREVIATIONS:
VIPH = VOLTAGE/PHASE KVA = KILOVOLT AMPERES GND = GROUND COND = CONDUIT
KW = KILOWATTS VA = VOLT AMPERES DISC = DISCONNECT OCPD = OVERCURRENT PROTECTIVE DEVICE
W = WATTS MCA = MINIMUM CIRCUIT AMPACITY STR = STARTER PL = POLE
HP = HORSEPOWER FLA = FULL LOAD AMPERES MOCP = MAXIMUM OCPD (LISTED BY THE MANUFACTURER)

REMARKS:
1. NEMA 1 FUSED DISCONNECT SWITCH
2. NEMA 1 NON-FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER WITH THERMAL OVERLOAD
5. MANUAL MOTOR CONTROLLER W/OUT THERMAL OVERLOAD
6. MAGNETIC STARTER
7. MAGNETIC STR/NON-FUSED DISCONNECT COMBINATION
8. MAGNETIC STR/FUSED DISCONNECT COMBINATION
9. NEMA 3R FUSED DISCONNECT SWITCH
10. NEMA 3R NON-FUSED DISCONNECT SWITCH
11. VARIABLE FREQUENCY DRIVE
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. DIRECT CONNECTION
14. DUCT DETECTOR IN RETURN AIR DUCT
15. CONTROLLED WITH LIGHTS
16. LM-EB DISCONNECT W/ICNTRL WIRING TO VFD

OC/PD TYPES:
C1 = THERMAL MAGNETIC CIRCUIT BREAKER F1 = INDUCTIVE FUSE (CLASS RK5)
C2 = MAGNETIC ONLY CIRCUIT BREAKER F2 = NON-INDUCTIVE FUSE (CLASS RK1)

NOTES:
- THE DIVISION 26 CONTRACTOR MAY INCREASE THE CONDUIT SIZE BY ONE INCREMENTAL SIZE TO FACILITATE INSTALLATION OR TO HELP WITH MATERIAL AVAILABILITY/COST.

GENERAL NOTE: THE EC SHALL COORDINATE ALL REQUIREMENTS (IE: MOCP SIZE, UNIT THERMAL PROTECTION, ETC) WITH APPROVED MECHANICAL SHOP DRAWINGS/ SUBMITTALS AND BRING UP ANY DISCREPANCIES WITH THE ELECTRICAL ENGINEER OF RECORD IN WRITING PRIOR TO ROUGH-IN.

NAME: 41-NDLT-1C(EX)														
TYPE: NQ		VOLTAGE: 208 / 120		MOUNTING: SURFACE		MAINS: BREAKER		DIMS: 20" W, 6.75" D, 68" H		SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BREAKER, SUB-FEED LUGS, NEMA 3R, SURGE PROTECTOR				
LOCATION: CBSW-1-055		AIC 10K AMPS		FEED: BOTTOM		400 AMPS		42 SPACES						
DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P	WIRE AMP	VA LOAD	PHASE VA	VA LOAD	WIRE SIZE	BRKR AMP	CODE	CIRCUIT DESCRIPTION	CKT #	DF
	1	SPACE		3		0	A B C					SPACE	2	
	3					0							4	
	5					0							6	
	7	CBW-2-007		3	200	3/0	8341	8341				SPACE	8	
	9					8325		8325					10	
	11					9192		9192					12	
	13	SPACE		3		0						SPACE	14	
	15					0							16	
	17					0							18	
	19	SPACE		3		0						SPACE	20	
	21					0							22	
	23					0							24	
	25					0							26	
	27					0							28	
	29					0							30	
	31					0							32	
	33					0							34	
	35					0							36	
	37					0							38	
	39					0							40	
	41					0							42	

DIVERSITY FACTORS (DF):
C=CONTINUOUS M=MOTOR L=LARGEST MOTOR O=OTHER K=KITCHEN EQUIPMENT
CONNECTED VA: 8341 8325 9192 25.9 KVA
CONNECTED AMPS: 70 69 77 71.775 A
DIVERSIFIED VA: 26 KVA 27 KVA
DIVERSIFIED AMPS: 71.775 A

CODES:
1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE
2 = SHUNT-TRIP BREAKER 5 = GFCI BREAKER
3 = GFEF BREAKER 4 = PROVIDE LOCK OFF DEVICE

THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75°C

NAME: CBW-02-007-1														
TYPE: NQ		VOLTAGE: 208 / 120		MOUNTING: FLUSH		MAINS: BREAKER		DIMS: 20" W, 6.75" D, 68" H		SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BREAKER, SUB-FEED LUGS, NEMA 3R, SURGE PROTECTOR				
LOCATION: CBW-02-007		AIC 10K AMPS		FEED: BOTTOM		200 AMPS		42 SPACES						
DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P	WIRE AMP	VA LOAD	PHASE VA	VA LOAD	WIRE SIZE	BRKR AMP	CODE	CIRCUIT DESCRIPTION	CKT #	DF
	1	RECEPTACLES		1	20	12	720	2376				MESSAGE CHAIR	2	M
	3	RECEPTACLES		1	20	12	900	2556				MESSAGE CHAIR	4	M
	5	RECEPTACLES		1	20	12	540		2196	1856		MESSAGE CHAIR	6	M
	7	RECEPTACLES		1	20	12	540	2196		1856		MESSAGE CHAIR	8	M
	9	RECEPTACLES		1	20	12	720	1526		806		LIGHTING	10	C
	11	RECEPTACLES		1	20	12	900		1400	500		SIGNAGE	12	C
	13	VAV BOXES		1	20	12	500	1220		720		RECEPTACLES	14	R
	15	EXHAUST FAN EF-1		1	25	10	696	2194		1498		WATER HEATER WH-1	16	C
	17	IWH WATER HEATER		2	30	10	2049		3547	1498			18	C
	19							2049		500		SIGNAGE	20	C
	21	IWH WATER HEATER		2	30	10	2049		2049			SPARE	22	
	23							2049				SPARE	24	
	25	SPARE		1	20			0				SPARE	26	
	27	SPARE		1	20			0				SPARE	28	
	29	SPARE		1	20			0				SPARE	30	
	31	SPARE		1	20			0				SPARE	32	
	33	SPARE		1	20			0				SPARE	34	
	35	SPARE		1	20			0				SPARE	36	
	37	SPARE		1	20			0				SPARE	38	
	39	SPARE		1	20			0				SPARE	40	
	41	SPARE		1	20			0				SPARE	42	

DIVERSITY FACTORS (DF):
C=CONTINUOUS M=MOTOR L=LARGEST MOTOR O=OTHER K=KITCHEN EQUIPMENT
CONNECTED VA: 8341 8325 9192 25.9 KVA
CONNECTED AMPS: 70 69 77 71.775 A
DIVERSIFIED VA: 27 KVA 27 KVA
DIVERSIFIED AMPS: 75.107 A

CODES:
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THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75°C

CONDUCTOR & CONDUIT SCHEDULE - COPPER						
TYPE	CONDUCTOR			CONDUIT SIZE	KEYED NOTES	
	AMP	SETS	QTY			
200-4	200	1	4	#3/0	6	

GENERAL NOTES:
- THHN/THWN/THWN-2 FOR 400 KCMIL AND BELOW, XHHW/XHHW-2 FOR 500 KCMIL AND ABOVE.
- GROUND CONDUCTOR SHALL BE DELETED ON SERVICE ENTRANCE CONDUCTORS.

KEYED NOTES:
1. REFER TO NEC 310.16 FOR 75°C RATED COPPER AND 110.14(C)(1)(a) FOR 60°C COPPER.
2. 200% NEUTRAL (OR 2 NEUTRAL CONDUCTORS).
3. AMPACITY DERATED BY 80% DUE TO (4-6) CURRENT CARRYING CONDUCTORS

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vbfa project #: X00TB

VBFA

NELCO ARCHITECTURE, INC.

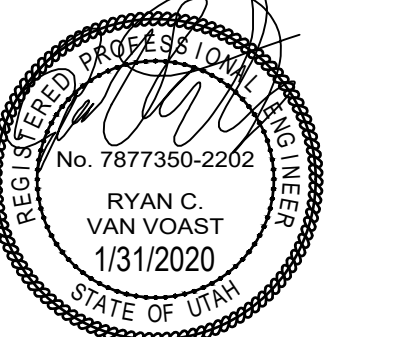
PROJECT INFORMATION
XpresSpa
SLC AIRPORT
776 N TERMINAL DRIVE
CBW-2-017
SALT LAKE CITY, UT 84122
PROJECT #:
19.0003851.000

ACTUAL SHEET SIZE IS 24"x36"
SHEET INFORMATION
ONE LINE DIAGRAM
DRAWN BY: AC
REVIEWED BY: KC
SCALE:
AUTHORIZED FOR:
30% REVIEW SET

E701

ISSUE INFORMATION

REVISIONS



PROJECT INFORMATION

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SHEET INFORMATION

ENLARGED ELECTRICAL PLANS

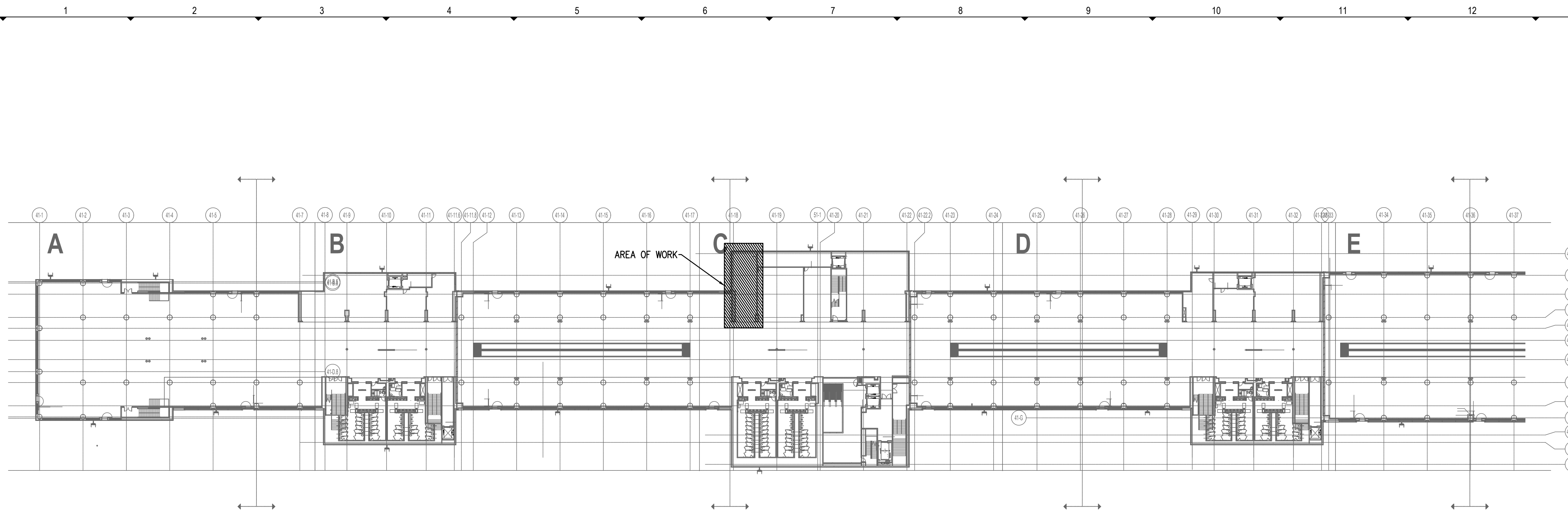
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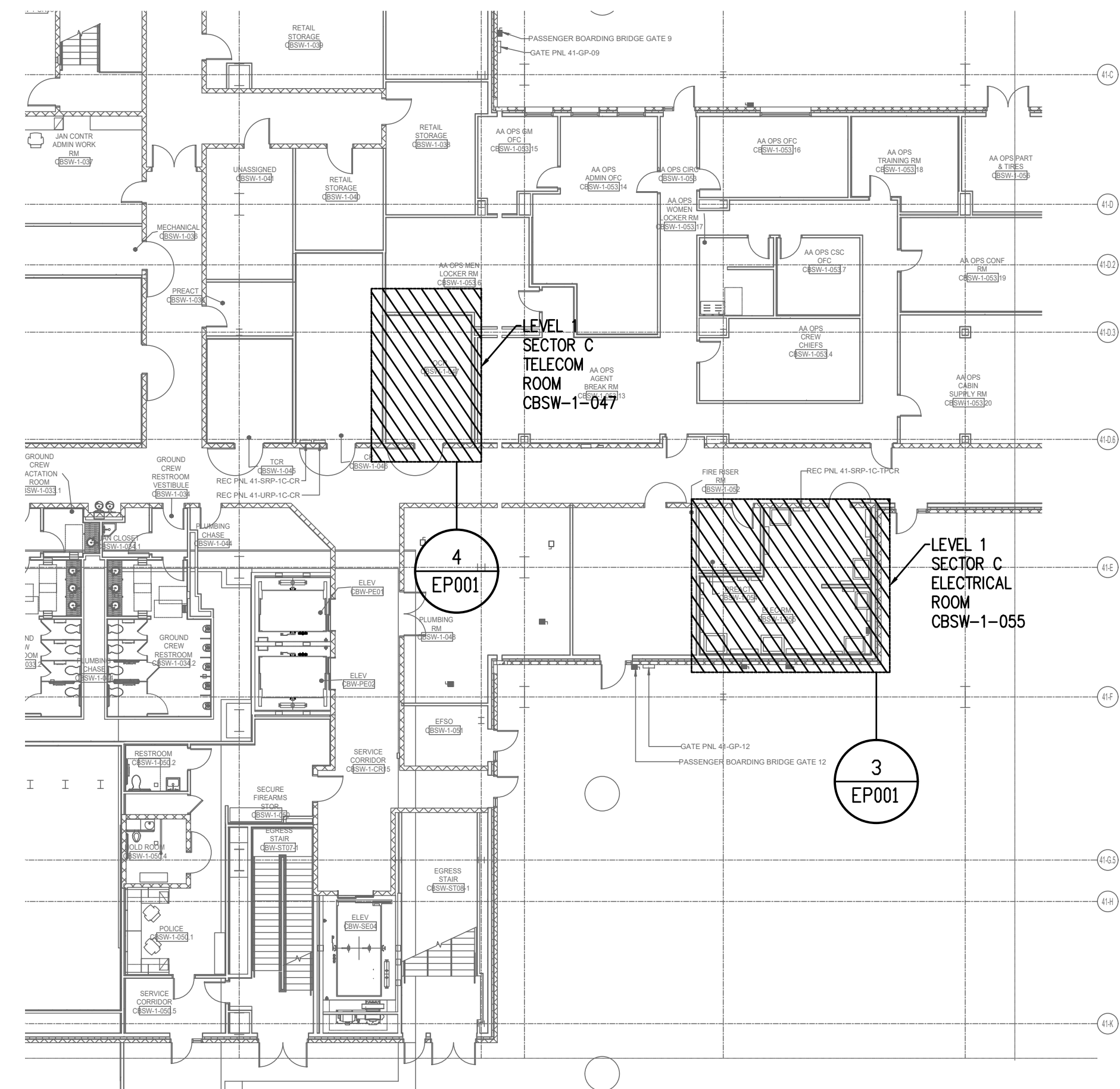
SCALE:

AUTHORIZED FOR:
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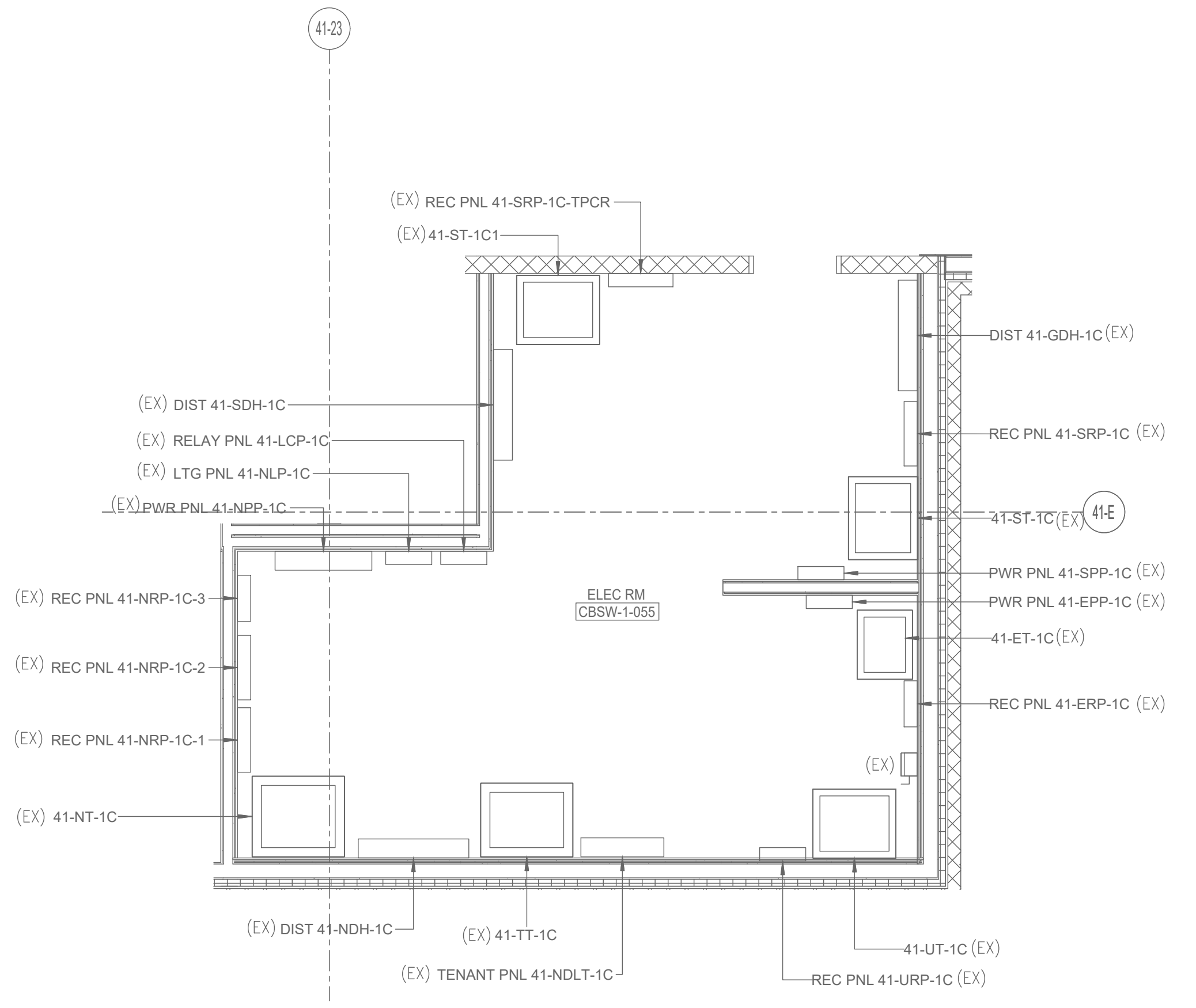
EP001



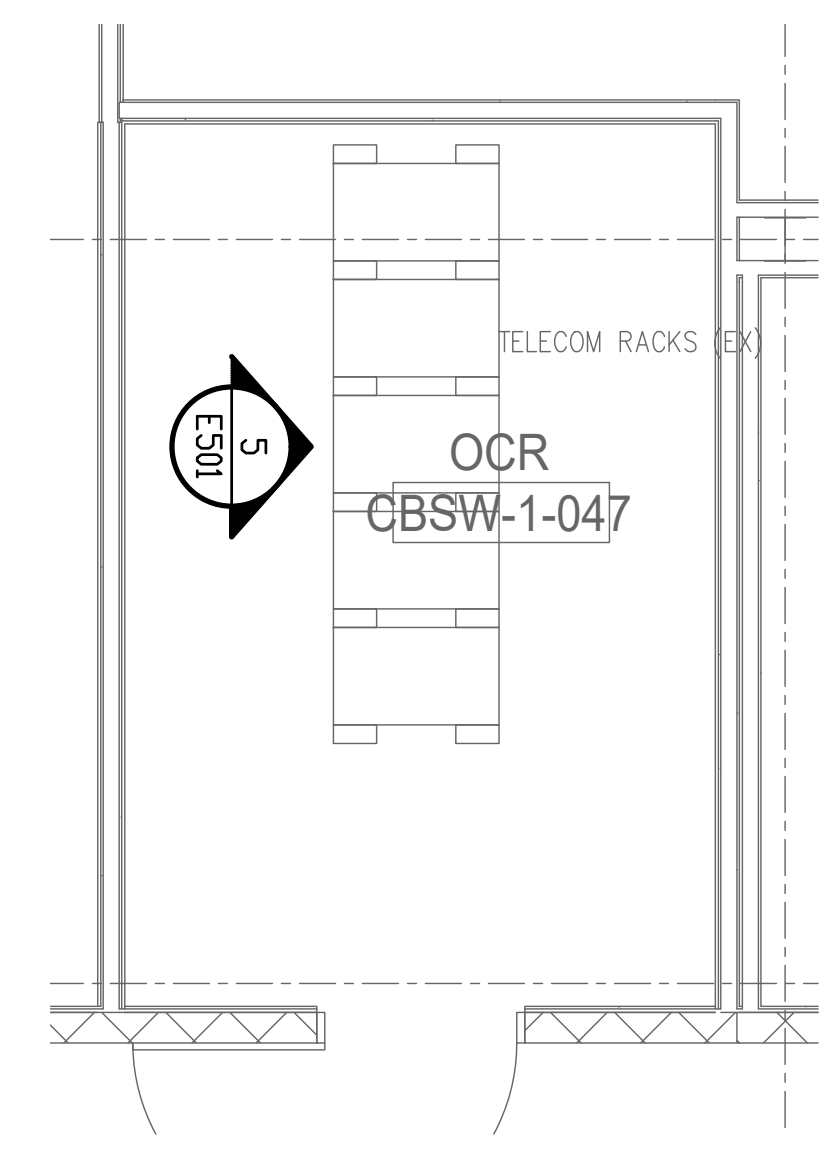
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EP001 NO SCALE



2 CONCOURSE B LEVEL 1 SECTOR 1C
EP001 SCALE: 1/16" = 1'-0"

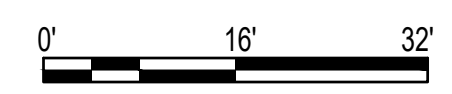
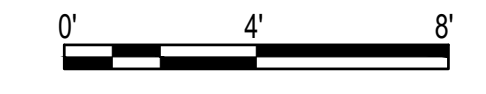
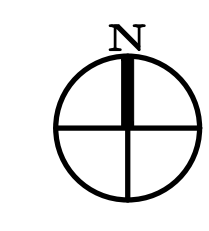
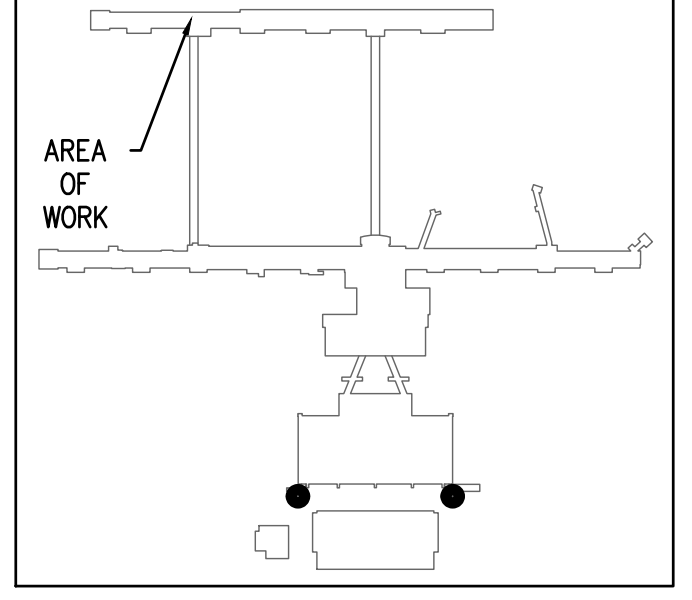


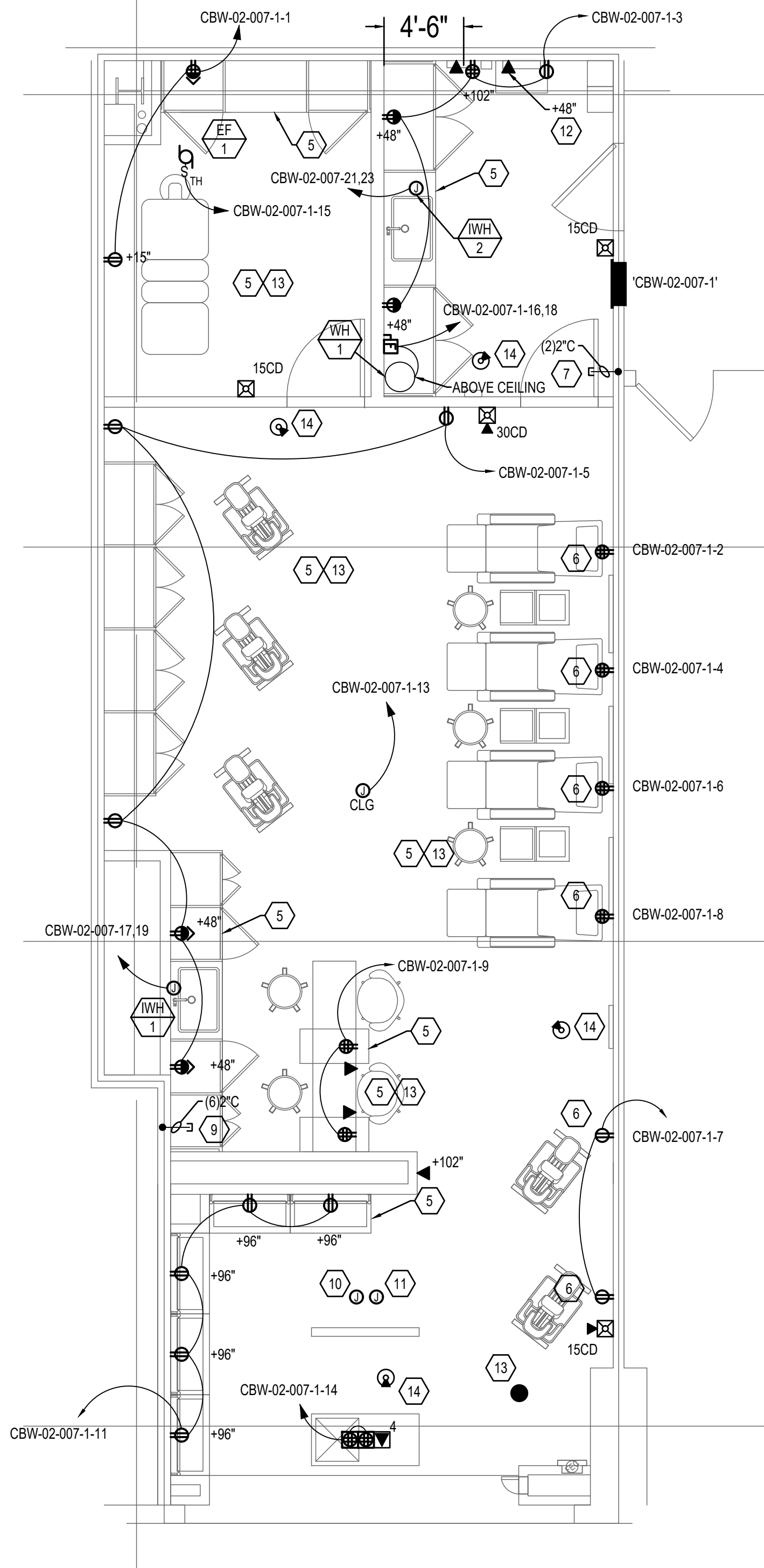
3 CONCOURSE B ENLARGED EXISTING ELECTRICAL ROOM - LEVEL 1 - SECTOR 1C
EP001 SCALE: 1/4" = 1'-0"



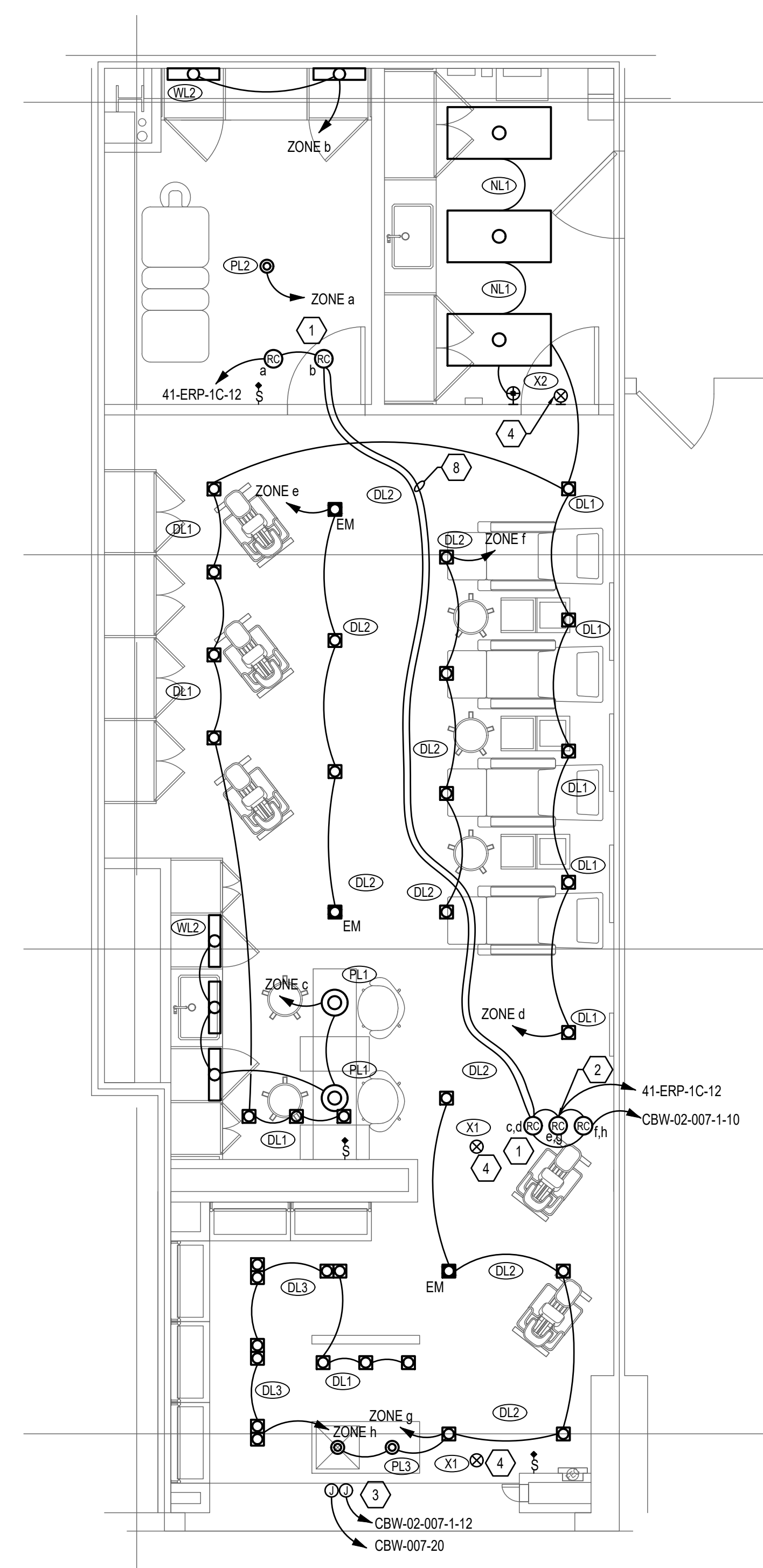
4 ENLARGED EXISTING DATA ROOM
EP001 SCALE: 1/4" = 1'-0"

KEY PLAN





1 CONCOURSE B LEVEL 2 POWER PLAN
 EP101 SCALE: 1/4" = 1'-0"
 0' 4' 8'



2 CONCOURSE B LEVEL 2 LIGHTING PLAN
 EP101 SCALE: 1/4" = 1'-0"
 0' 4' 8'

KEYED NOTES

- PROVIDE AND INSTALL ROOM CONTROLLER TO CONTROL LIGHTING IN THIS SPACE. ROOM CONTROLLER SHALL BE HUBBEL CONTROL SOLUTIONS NXRC OR APPROVED EQUAL. PROVIDE A SINGLE OR TWO RELAY CONTROLLER AS SHOWN ON PLANS. EC SHALL PROVIDE AN NXBTC MODULE TO ALLOW AUTOMATIC ON/OFF CONTROL ON A TIME ON/OFF BASIS. ONLY ONE NXBTC MODULE IS REQUIRED FOR UP TO 6 CONTROLLERS.
- FOR ROOMS THAT CONTAIN EMERGENCY LIGHTING CIRCUITS EC SHALL PROVIDE A SEPARATE UL924 ROOM CONTROLLER TO AUTOMATICALLY SENSE LOSS OF NORMAL POWER AND SWITCH LIGHTING ON.
- DEDICATED CIRCUIT FOR OUTDOOR SIGNAGE. EC SHALL COORDINATE EXACT HEIGHT OF J-BOX AND EXACT POWER REQUIREMENTS OF SIGNAGE WITH MANUFACTURER PRIOR TO ROUGH IN.
- PROVIDE AND INSTALL AN EXIT SIGN AS SCHEDULED. TIE INTO THE NEAREST EM LIGHTING CIRCUIT.
- COORDINATE ALL DEVICE HEIGHTS WITH MILLWORK PRIOR TO ROUGH IN. REFER TO MILLWORK SHOP DRAWINGS.
- COORDINATE LOCATION OF THESE DEVICES WITH ARCHITECT AND OWNER PROVIDED EQUIPMENT LAYOUT.
- EXISTING CONDUIT FOR FEEDERS TO NEW ELECTRICAL PANEL. EC SHALL EXTEND CONDUIT AS REQUIRED ABOVE CEILING.
- PROVIDE ALL REQUIRED CAT6 CABLING TO TIE ROOM CONTROLLERS TOGETHER. PROVIDE REQUIRED PROGRAMMING AND TRAINING TO OWNER.
- EXISTING CONDUIT FOR FEEDERS TO TELECOM RACK. EC SHALL EXTEND CONDUIT AS REQUIRED ABOVE CEILING.
- EXISTING JUNCTION BOX IN CEILING FOR ADDRESSABLE LOOP CONNECTION TO FIRE ALARM SYSTEM.
- EXISTING JUNCTION BOX IN CEILING FOR SPEAKER STROBE LOOP CONNECTION TO FIRE ALARM SYSTEM.
- DATA PORT FOR TIME CLOCK.
- CONTRACTOR TO SUB-CONTRACT VENDOR FOR SPEAKER SYSTEM DESIGN. EC SHALL PROVIDE J-BOX IN CEILING AND RUN (13/4" TO HEADEND LOCATION. COORDINATE WITH SYSTEM DESIGNER FOR EXACT LOCATION OF HEADEND. CAT6 CABLING BY VENDOR.
- CONTRACTOR TO SUB-CONTRACT VENDOR FOR SECURITY CAMERA SYSTEM DESIGN. EC SHALL PROVIDE J-BOX IN CEILING AND RUN (13/4" TO HEADEND LOCATION. COORDINATE WITH SYSTEM DESIGNER FOR EXACT LOCATION OF HEADEND. CAT6 CABLING BY VENDOR.

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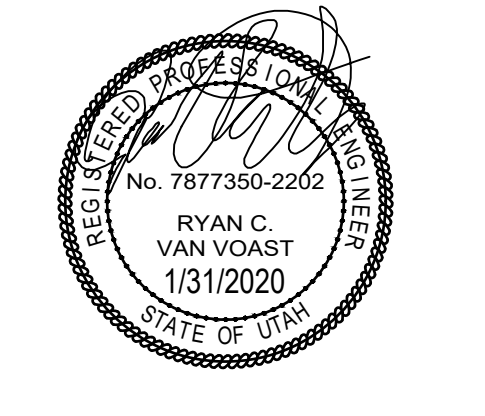
ISSUE INFORMATION

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△	

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PROJECT INFORMATION

XpresSpa
SLC AIRPORT
776 N TERMINAL DRIVE
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ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

POWER & LIGHTING PLANS

DRAWN BY: AC

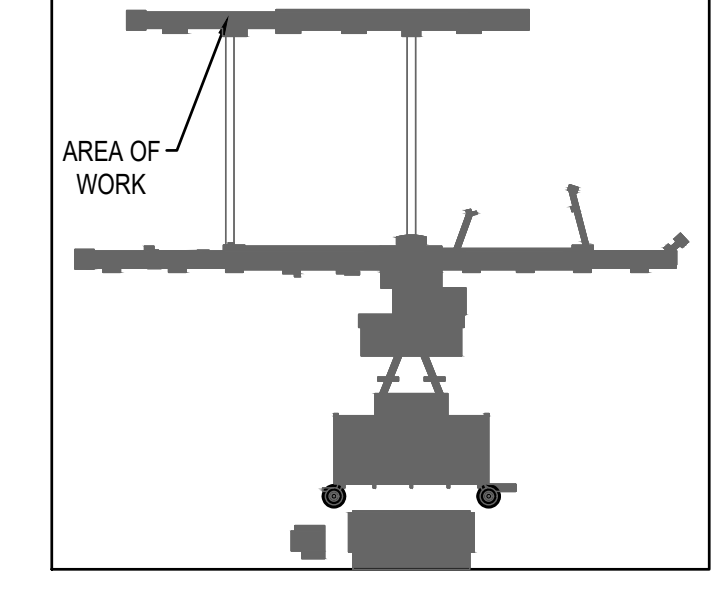
REVIEWED BY: KC

SCALE:

AUTHORIZED FOR:
 30% REVIEW SET

EP101

KEY PLAN



GENERAL NOTES & SPECIFICATIONS

Design Criteria

Applicable Building Code: 2015 International Building Code

- Design live loads
 - Floor loads
 - Retail
 - First floor = 100 psf
 - Upper floors = 75 psf
- Seismic
 - $S_s = 1.591$
 - $S_1 = 0.546$
 - $S_{DS} = 1.031$
 - $S_{D1} = 0.546$
 - Seismic importance factor (Ie) = 1.0
 - Risk Category = II
 - Seismic site class = D (presumed)
 - Seismic design category = D

General

- The term General Contractor (G.C.) as used in these documents refers to the Contractor / Construction Manager in responsible charge of the project in terms of coordination, scheduling, subcontractor coordination, etc. This term refers to, but is not limited to, General Contractor, Construction Manager, Design Build Contractor, Prime Contractor, etc. The term is referencing the entity that coordinates the work of other trades.
- The structure or its modifications are designed to be self-supporting and stable after the building or its modifications are fully completed. It is solely the contractor's responsibility to determine erection procedure and sequence and insure the safety of the construction personnel, public, building and its component parts, and adjacent buildings and properties. This includes the addition of whatever temporary or permanent shoring, bracing or needling, etc. that may be necessary to brace new construction, existing walls, and framing to remain so that the structure is braced for wind, seismic, gravity, construction loads, etc. and that no horizontal or vertical settlement or any damage occurs to the adjacent existing structures. Temporary supports shall be maintained in place until permanent supports and/or shoring and bracing are installed. Design of these supports shall be by a registered engineer registered in the state where the project is located in the employ of the contractor.
- Fall protection support shall be provided in accordance with OSHA requirements as required. Such material shall remain the contractor's property after completion of the project.
- It is the contractor's responsibility to enforce all applicable safety codes and regulations during all phases of construction.
- The contractor shall perform all construction for the project in a manner and sequence that are based on accepted industry standards that recognize the interaction of the components that comprise the structure, without causing distress, unanticipated movements or irregular load paths as a result of the construction means and methods employed.
- Construction loads shall not exceed design live loads. The contractor shall be responsible for all design required to support construction equipment used in constructing this project. Shoring and re-shoring is the responsibility of the contractor.
- The existing conditions shown on these documents were based upon existing drawings prepared by Dunn Associates, Inc. dated 9/26/2017. The drawings illustrate the existing structure, structural elements and framing details based on either the original construction drawings and/or site observation. Prior to initiating material procurement and construction, it is the contractor's responsibility to verify existing conditions are consistent with the contract documents. This may require the removal of existing finishes and possible selective demolition to verify the as-built conditions. The contractor is responsible for field verifying all existing conditions; any discrepancies are to be immediately reported to the engineer and architect prior to proceeding with any of the work in question.
- Contractor shall field verify slab on grade floor construction type prior to cutting. Under no circumstances shall the contractor cut a structural floor slab thicker than four (4") inches without prior written approval from Engineer of Record. Notify Engineer of Record of any slab thickness greater than four (4") prior to proceeding with any saw cutting.
- All mechanical and electrical duct work, plumbing, piping, wiring, lighting and all architectural items that need to be removed during the modification of, or reinforcing of, existing structure shall be replaced in kind. The contractor shall keep all existing systems in operation during the construction phase of the project.
- All contractors are required to examine the drawings and specifications carefully, visit the site and fully inform themselves as to all existing conditions and limitations, prior to agreeing to perform the work. Failure to visit the site and familiarize themselves with the existing conditions and limitations will in no way relieve the contractor from furnishing any materials or performing any work in accordance with drawings and specifications without additional cost to the owner.
- Details labeled "Typical Details" on drawings apply to situations occurring on the project that are the same or similar to those specifically detailed. Such details apply whether or not details are referenced at each location. Notify engineer of clarifications regarding applicability of "Typical Details".
- Work these drawings with architectural, mechanical, and electrical drawings.
- Do not scale drawings.
- Any discrepancies between structural and architectural drawings shall be brought to the attention of the architect and structural engineer.
- Should any of the general notes conflict with any details or instructions on plans, or in the specifications, the strictest provision shall govern.
- Shop drawings and submittals:
 - These drawings shall be checked and coordinated with other materials and contracts by the general contractor and shop drawings and submittals shall bear the contractor's review stamp with the checker's initials before being submitted to the architect for approval.
 - When the fabricator has been authorized to use the architect and engineer's drawings as erection drawings, the fabricator must remove all title blocks, professional seals and any other references to the architect and engineer from that erection drawing. The fabricator's name and title shall be placed on the erection drawings.
 - Where dimensions and elevations of existing construction could affect the new construction, it is the contractor's responsibility to make field measurements in time for their incorporation in the shop drawings.

Cold Formed Metal Framing

- The design, installation and construction of cold-formed carbon or low-alloy steel, structural and nonstructural exterior steel framing, shall be in accordance with "The Standard for Cold-Formed Steel Framing-General Provisions, American Iron and Steel Institute" (AISI-general) and AISI-NASPEC.
- System components: with each type of metal framing required, provide manufacturer's standard steel runners (tracks), bracing, clip angles, shoes, reinforcements, fasteners, and accessories as recommended by manufacturer for applications indicated, as needed, to provide a complete metal framing system.
- The supplier shall provide all components and connections relative to size, spacing, gauge location, and anchorage of metal studs shown on architectural and structural drawings. Additional costs associated with an increase in the size, or gauge of the studs from that shown on the drawings are not permitted. The design intent shall be followed and supplier shall provide design for all framing components and connections. Any deviation from this design shall be approved by the architect/engineer. Additional fees required to evaluate a revision in stud size, gauge or spacing are the responsibility of the contractor.
- Design of metal stud framing shown is based on CSJ type (1 5/8" flange) studs with ClarkDietrich Industries section properties and allowable resisting moment capacity. Alternate manufacturer's framing size shall meet the minimum section properties and allowable resisting moment capacity of the members indicated on the design drawings. Additional costs for an increase in stud size or gage is prohibited.
- Contractor shall submit fabrication and erection shop drawings to the engineer for review for all cold formed metal framing components and connections indicated on the contract drawings. Any deviation from this design shall be approved by the architect/engineer and additional review costs shall be the responsibility of the contractor.
- Design of cold-formed metal stud framing shown is based on SSMA studs with section properties and allowable resisting moment capacities as defined in AISI manual, Cold-Formed Steel Design.
- Member sizes given or connections specifically detailed on the drawings shall be considered a minimum requirement.
- All framing members 16 ga. and heavier shall be formed from steel with a minimum yield strength of 50 ksi. All other framing shall be formed from steel with a minimum yield strength of 33 ksi.
- All framing shall be galvanized, G60.
- All connections shall be screwed or welded. Powder driven fasteners are not acceptable for any structural applications.
- Welding: use qualified welders and comply with AWS D1.3 "Structural Welding Code - Sheet Steel".
- Connection methods and fastener sizes/types shall not deviate from that indicates on drawings unless a substitution request is submitted and approved by architect/engineer prior to installation.
- Member web openings shall be positioned a minimum of 10" from connections.
- All welds shall be touched up with zinc-rich paint.
- Fabrication tolerances: fabricate assemblies level, plumb, and true to line to a maximum allowable tolerance variation of 1/8" in 10 feet (1:960) and as follows:
 - Spacing: space individual framing members no more than plus or minus 1/8 inch (3mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.
 - Squareness: fabricate each cold-formed metal framing assembly to a maximum out-of-square tolerance of 1/8 inch (3mm).
- Install cold-formed metal framing according to ASTM C 1007, unless more stringent requirements are indicated.
- Install supplementary framing, blocking and bracing in metal framing system wherever walls, partitions, and soffits are indicated to support fixtures, equipment, services, and similar work, where type of supplementary support is not otherwise indicated, comply with stud manufacturer's recommendations and industry standards in each case, considering weight or loading resulting from item supported.
- Install horizontal stiffeners in stud system, spaced at not more than 4'-0" on center. Weld at each intersection.
- Where stud system abuts structural columns, beams or walls, anchor ends of stiffeners to supporting structure.
- Install temporary bracing and supports to secure framing and support loads comparable in intensity to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.
- Install headers over wall openings wider than stud spacing. Locate headers above openings as indicated. Fabricate headers of compound shapes indicated or required to transfer load to supporting studs, complete with clip-angle connectors, web-stiffeners, or gusset plates.
 - Frame wall openings with not less than a double stud at each jamb or frame as indicated on shop drawings.
 - Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with clip angles or by welding, and space jack studs same as full-height wall studs.
- Contractor shall coordinate installation of edge angles with steel erection and metal stud contractor to ensure proper alignment of angles for metal stud installation.
- Galvanized repairs: prepare and repair damaged galvanized coatings on fabricated and installed cold formed metal framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.
- Touch up painting: wire brush, clean, and paint scarred areas, welds, and rust spots on fabricated and installed prime-painted, cold-formed metal framing. Paint framing surfaces with same type of shop paint used on adjacent surfaces.

Submittals

- Contractor shall submit fabrication and erection shop drawings to the engineer for review for all cold formed metal framing components and connections indicated on the contract drawings. Any deviation from this design shall be approved by the architect/engineer and additional review costs shall be the responsibility of the contractor. For all framing components and connections not specifically detailed on the structural drawings including trusses, headers, jambes, etc. Submit shop drawings and calculations stamped by an engineer registered in the appropriate jurisdiction of the project.

Quality Assurance

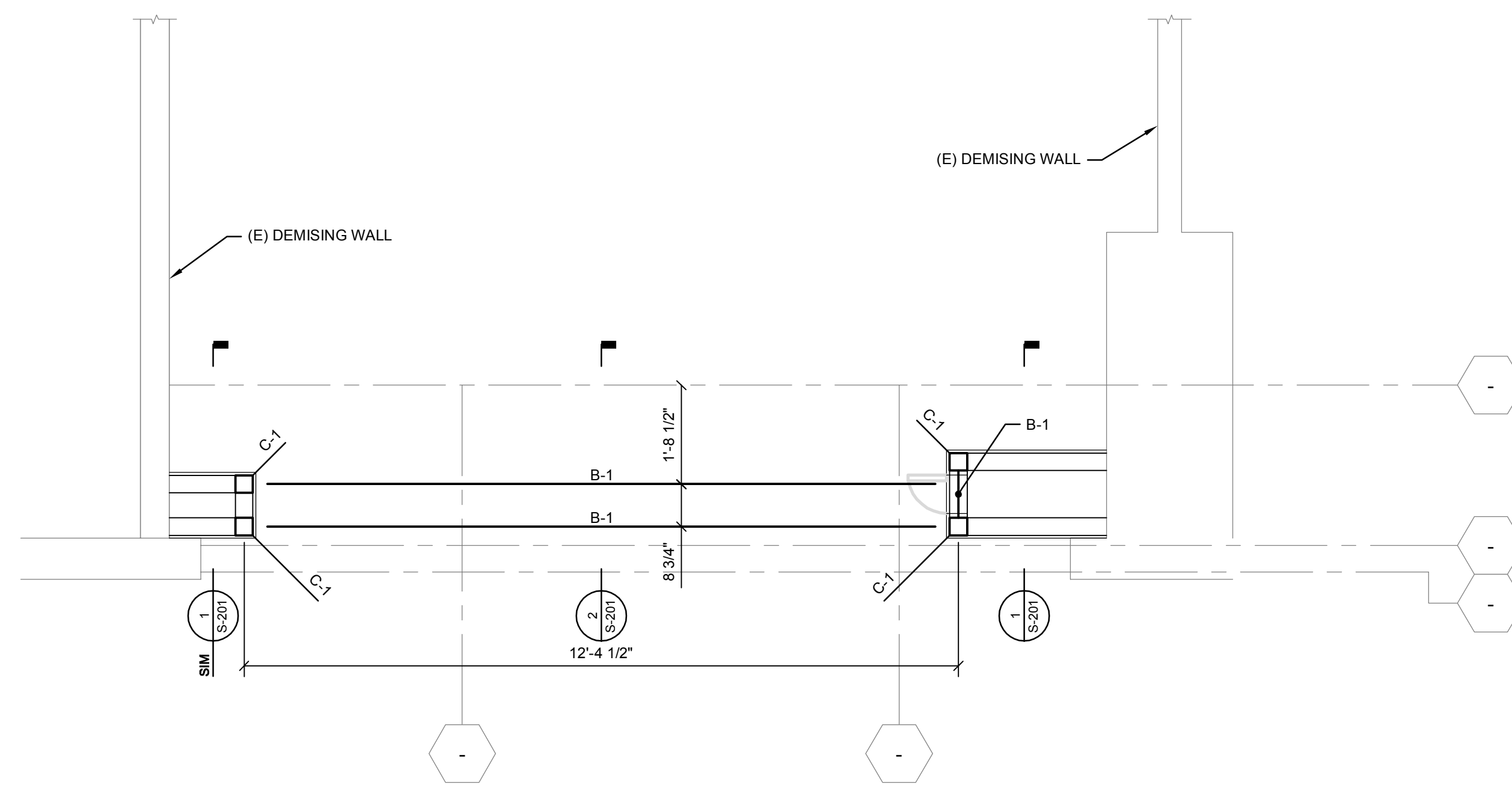
- Testing: owner will engage a qualified independent testing agency to perform field quality-control testing.
- Field and shop welds will be subject to inspection and testing.
- Testing agency will report test results promptly and in writing to contractor and architect.
- Remove and replace work that does not comply with specified requirements.
- Additional testing and inspecting, at contractor's expense, will be performed to determine compliance of corrected work with specified requirements.

ABBREVIATIONS

A.B.	ANCHOR BOLTS
ADDL.	ADDITIONAL
AFF.	ABOVE FINISH FLOOR
ARCH.	ARCHITECTURAL
B. PL.	BASE PLATE
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
BOT.	BOTTOM
BRDG.	BRIDGING
BRG.	BEARING
BTJ.	BOLTED TIE JOIST
CANTL.	CANTILEVER
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
CL.	CENTERLINE
CLR.	CLEAR
CMU.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
C.Y.	CUBIC YARD
DBA.	DEFORMED BAR ANCHOR
DET.	DETAIL
DIAG.	DIAGONAL
Ø or DIA.	DIAMETER
DJ.	DOUBLE JOIST
DK.	DECK
D.L.	DEAD LOAD
DWG.	DRAWING
DWLS.	DOWELS
EA.	EACH
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEV.	ELEVATOR
E.S.	EACH SIDE
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
EXP.	EXPANSION
(E) or EXIST.	EXISTING
EXT.	EXTERIOR
F/BLDG.	FACE OF BUILDING
F/CONC.	FACE OF CONCRETE
F.D.	FLOOR DRAIN
FIN.	FINISH
FLG.	FLANGE
FLR.	FLOOR
F.S.	FAR SIDE OR FOOTING STEP
FT.	FEET
FTG.	FOOTING
GA.	GAUGE
G.B.	GRADE BEAM
G.C.	GENERAL CONTRACTOR

ABBREVIATIONS

GALV.	GALVANIZED
HD'D.	HEADED
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
INT.	INTERIOR
J/B.	JOIST BEARING
JST.	JOIST
JT.	JOINT
K.	KIP
L.G.	LONG
LL.	LIVE LOAD
(LLH)	LONG LEG HORIZONTAL
(LLV)	LONG LEG VERTICAL
LW.	LONG WAY
MAS.	MASONRY
MC.	MOMENT CONNECTION
MECH.	MECHANICAL
MFR.	MANUFACTURER
MTL.	METAL
(N)	NEW
(N.I.C.)	NOT IN CONTRACT
N.S.	NEAR SIDE
NTS.	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
O/O.	OUT TO OUT
OPP.	OPPOSITE
PC.	PRECAST CONCRETE
PL.	PLATE
PLCS.	PLACES
P.S.F.	POUNDS/SQUARE FOOT
P.S.I.	POUNDS/SQUARE INCH
RAD.	RADIUS
R.D.	ROOF DRAIN
REINF.	REINFORCING
REQ'D.	REQUIRED
RET.	RETAINING
SECT.	SECTION
SIM.	SIMILAR TO
S.O.G.	SLAB ON GRADE
SP.	SPACES
SQ.	SQUARE
STIFF.	STIFFENER
STL.	STEEL
STRUCT.	STRUCTURAL
SW.	SHORT WAY
SYM.	SYMMETRICAL
T/.	TOP OF
TYP.	TYPICAL
UNO.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W.P.	WORK POINT
W.W.F.	WELDED WIRE FABRIC
W/.	WITH



STOREFRONT FRAMING PLAN

- 1/2"=1'-0"
- NOTES:
- EXISTING FLOOR CONSTRUCTION: COMPOSITE CONCRETE SLAB (5 1/4" TOTAL THICKNESS).
 - TOP OF (E) FLOOR ELEVATION = 0'-0".
 - SEE THIS SHEET FOR GENERAL NOTES
 - SEE SHEET S-201 FOR TYPICAL DETAILS.
 - C-X DENOTES LIGHT GAUGE BUILT-UP BOX COLUMN. SEE TYPICAL BUILT-UP BOX COLUMN DETAIL ON SHEET S-201.
 - B-X DENOTES LIGHT GAUGE BUILT-UP BOX BEAM. SEE TYPICAL BUILT-UP BOX BEAM DETAILS ON SHEET S-201.
 - (E) DENOTES EXISTING CONSTRUCTION. VERIFY ALL EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

TBA
Thorson + Baker + Associates
 CONSULTING ENGINEERS
 3030 West Streetsboro Road (330) 659-6688 Ph.
 Richfield, Ohio 44286 (330) 659-6675 Fax

FRCH NELSON
 A NELSON BRAND

311 Elm Street Suite 600
 Cincinnati, OH 45202
 513 241 3000

XpresSpa

ISSUE INFORMATION

01.29.2020
 REVISIONS

NELCO ARCHITECTURE, INC.



PROJECT INFORMATION

XpresSpa
SLC AIRPORT
3920 West 900 North
 Space #: CBW-2-007 Concourse: B
 SALT LAKE CITY, UT 84122

PROJECT #:
 19.0003851.000

ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

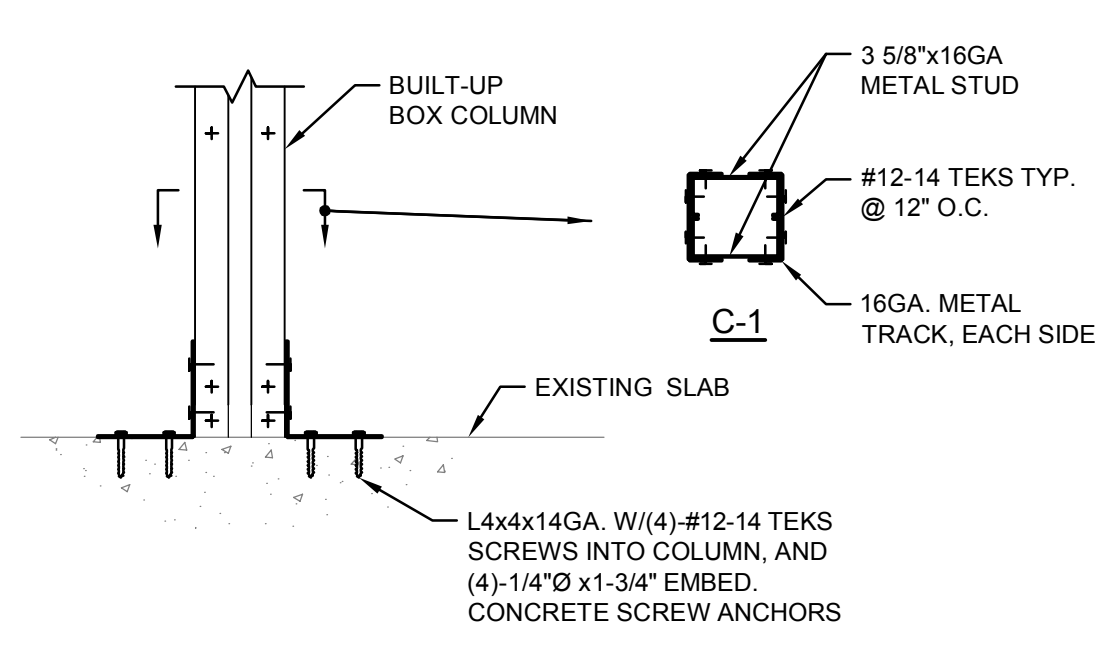
GENERAL NOTES & STOREFRONT FRAMING PLAN

DRAWN BY:
 TBA
 REVIEWED BY:
 TBA
 SCALE:
 AS NOTED

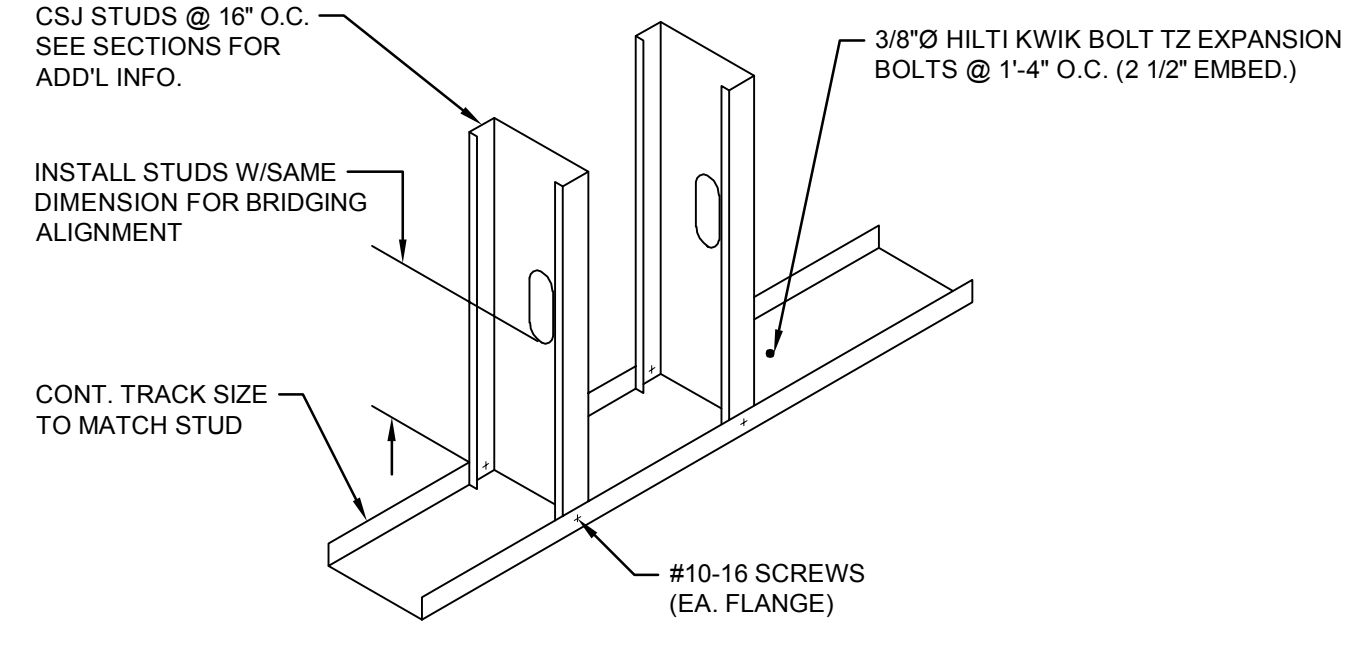
AUTHORIZED FOR:
 100% Submittal

S-101

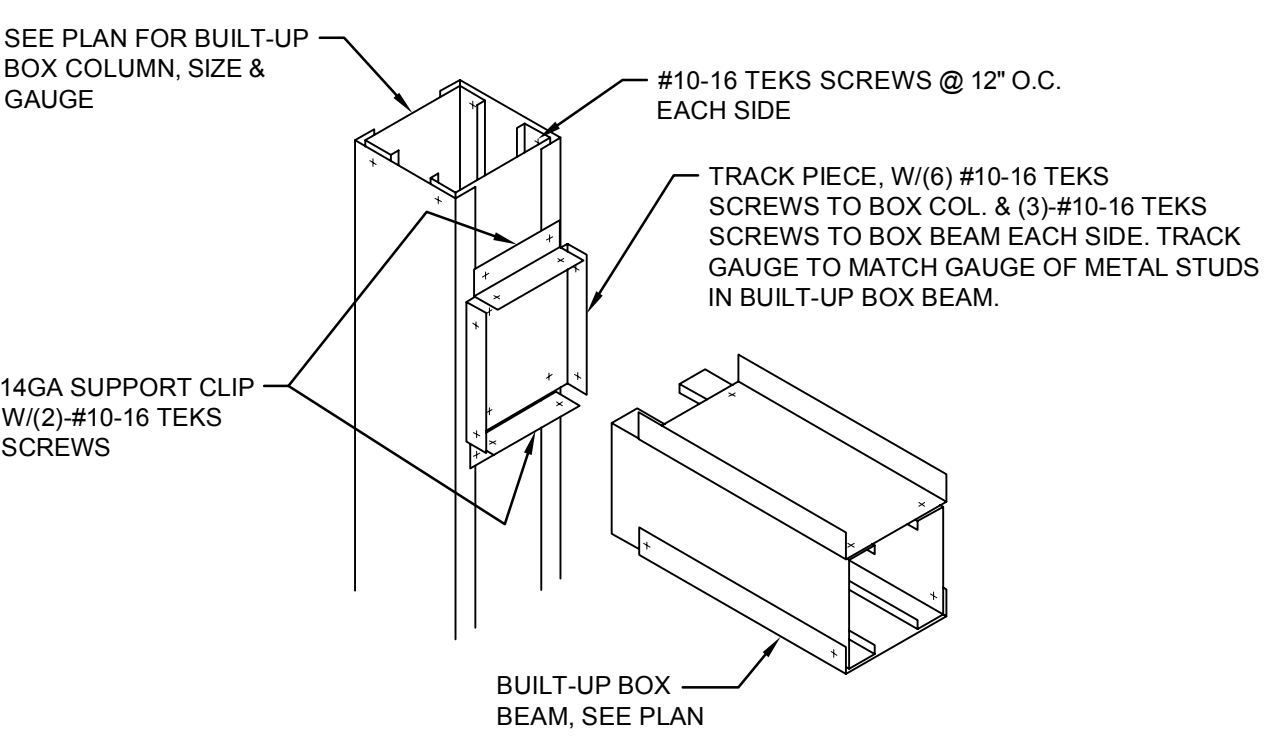
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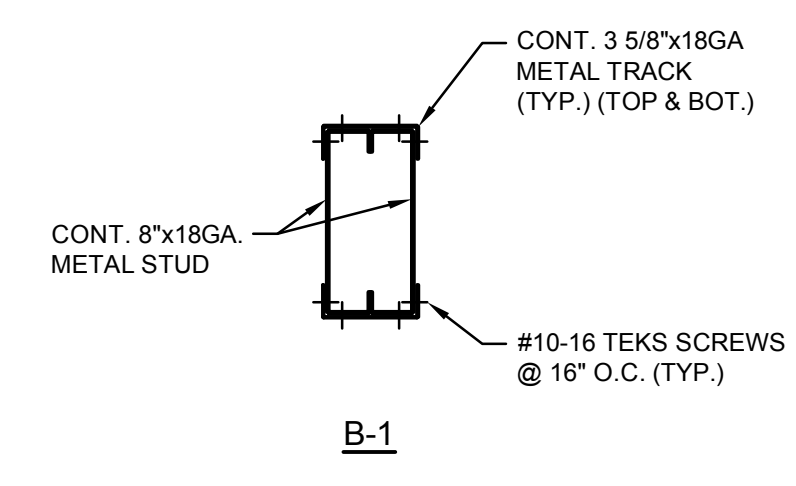
TYPICAL BUILT-UP BOX COLUMN DETAILS



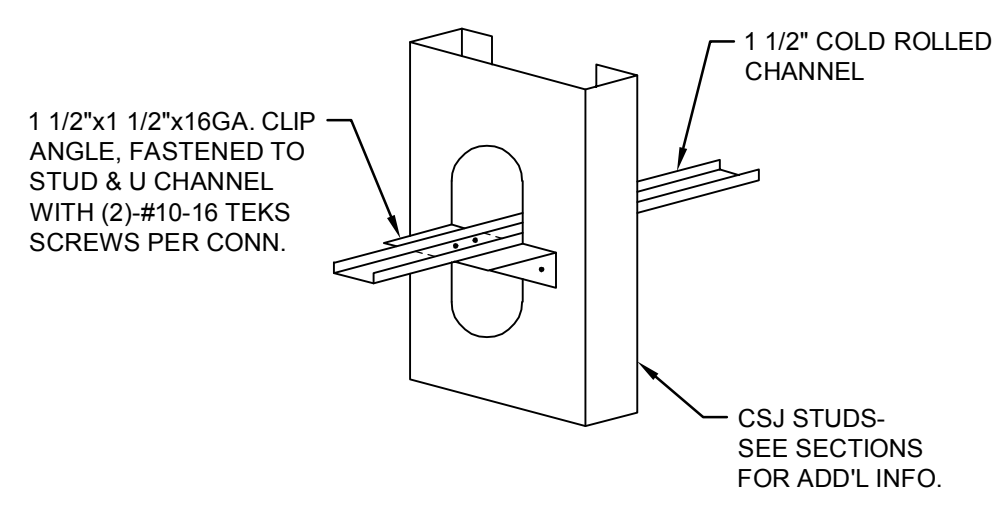
TYPICAL STUD TO TRACK CONNECTION



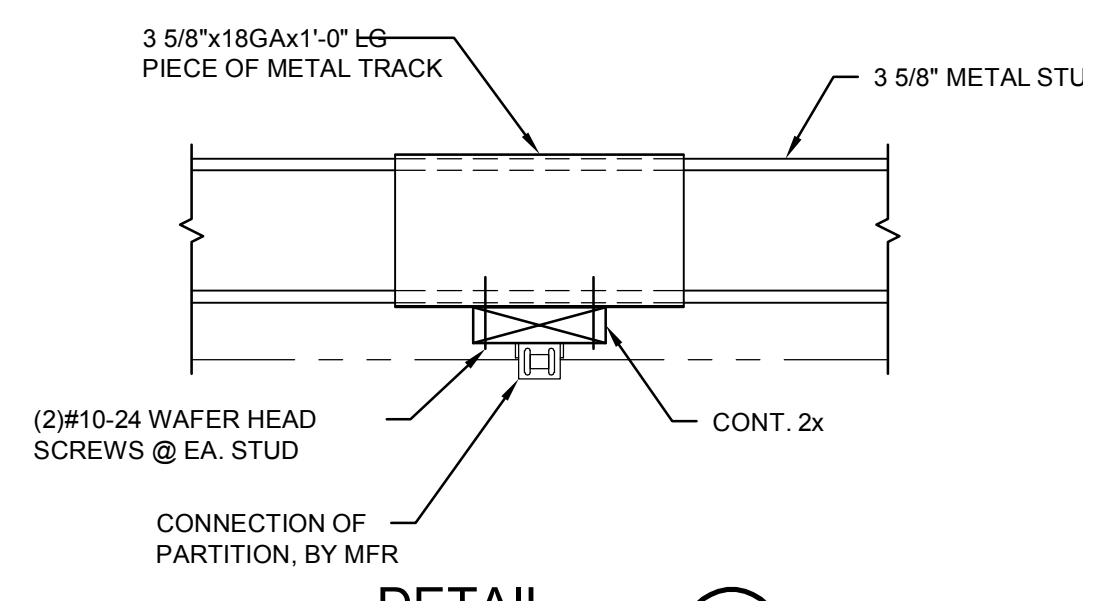
TYPICAL BOX BEAM BEARING DETAILS



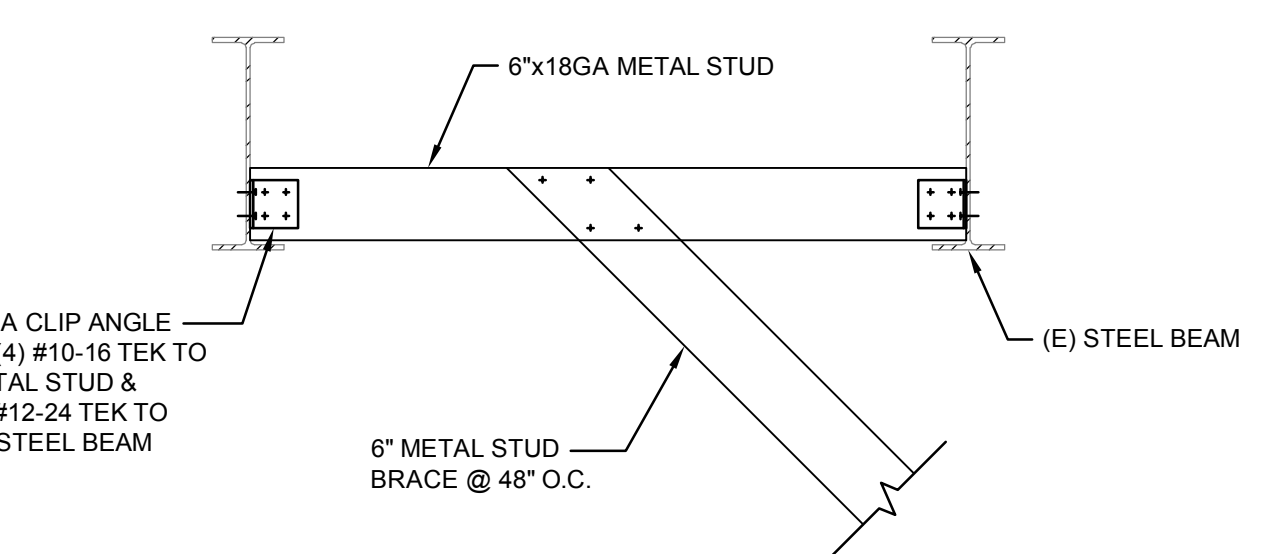
TYPICAL BUILT-UP BOX BEAM DETAILS



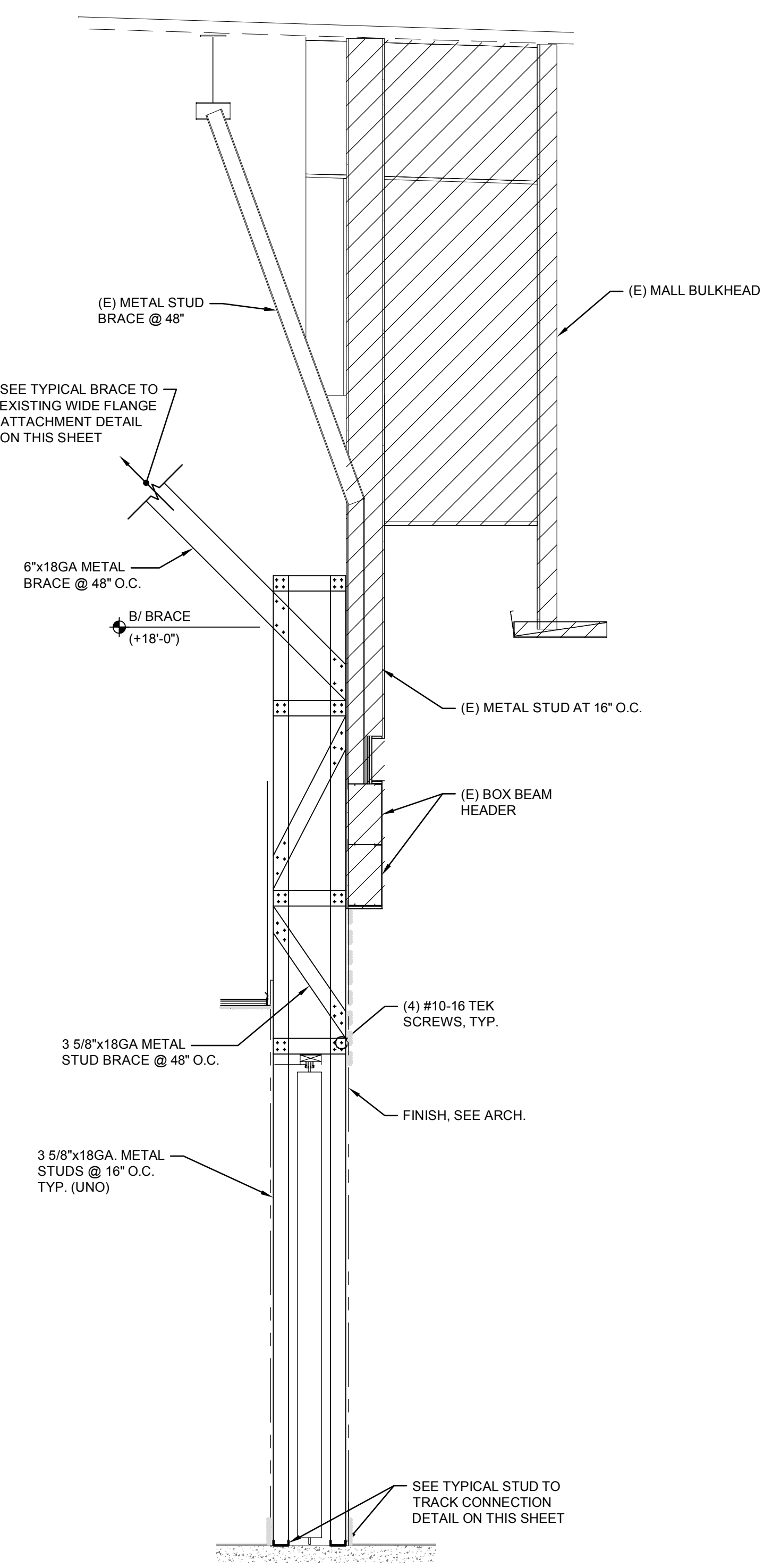
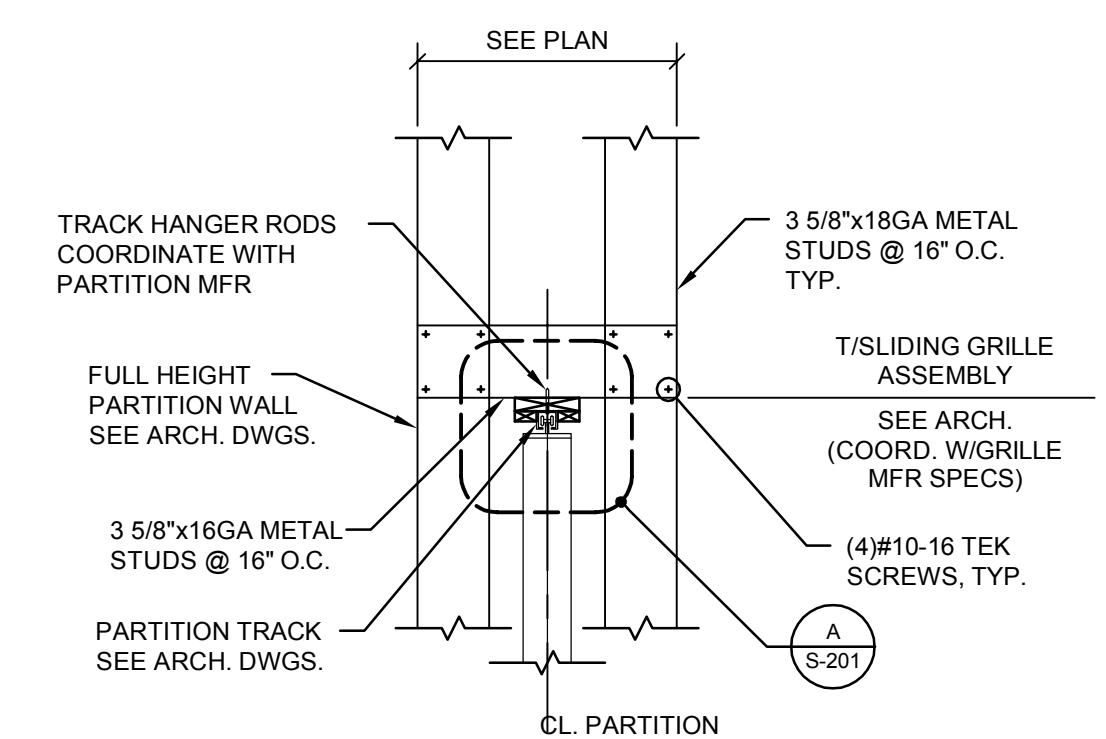
TYPICAL BRIDGING DETAIL



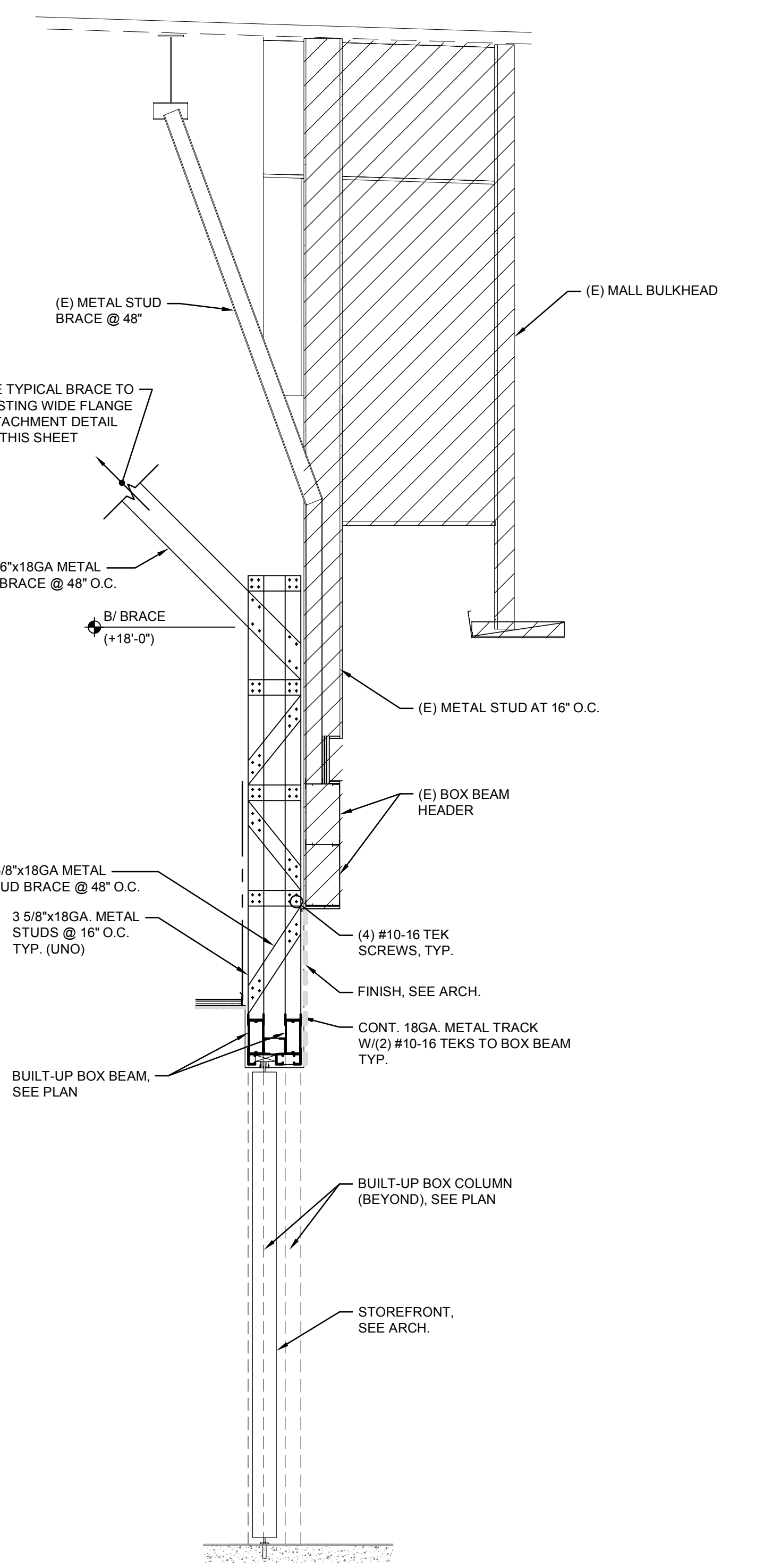
TYPICAL SLIDING PANEL DOOR ATTACHMENT DETAIL



TYPICAL BRACE TO EXISTING WIDE FLANGE ATTACHMENT DETAILS



SECTION 1
1/2" = 1'-0"



SECTION 2
1/2" = 1'-0"

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311 Elm Street Suite 600
Cincinnati, OH 45202
513 241 3000

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AS NOTED
AUTHORIZED FOR:
100% Submittal

S-201

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CONSULTING ENGINEERS
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Richfield, Ohio 44286 (330) 659-6675 Fax

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