

## ADDENDUM #2

**Project:** Ogden-Hinkley Airport  
Front Terminal Expansion

**Architect:** Sanders Associates Architects  
2668 Grant Ave. Suite 100  
Ogden, UT 84401

**Owner:** Ogden City

**Project Manager:** Steven Lund AIA  
**Project Number:** 2021-10  
**Date:** 7.19.24



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*The following information is intended to amend, alter, expand or clarify the drawings and specifications issued for this project.  
All information in this Addendum shall be made part of the contractor's bid.*

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### **BIDDER ITEMS:**

1. Clarification for the Buy America requirements in Specification Section 016001:
  - a. In the case of bidders not finding products to bid that strictly comply with the Buy American requirements, they can check to see if the product is already listed on the Buy American waiver list:  
[https://www.faa.gov/airports/aip/buy\\_american/nationwide\\_waivers\\_issued](https://www.faa.gov/airports/aip/buy_american/nationwide_waivers_issued)
  - b. If their items are not on the list, they will need to look at the Buy American waiver options in the project documents. A Type 2 Waiver documents that the items are not available in sufficient quantity or quality in the USA. A Type 3 Waiver documents that the cost of the item components and subcomponents produced in the US is more than 60% of the cost of all components and subcomponents of the project. These waivers and associated documentation are included in the project manual and should be submitted with the bid.

### **ELECTRICAL ITEMS:**

1. **SHEET E002**
  - a. Update light fixture schedule.
  - b. Change starter type for unit heater.
  - c. Add floor box schedule.
2. **SHEET E060**
  - a. Add diagrams C002 and EY102.
3. **SHEET E104**
  - a. Add diagram callouts.
4. **SHEET E200B**
  - a. Change S4 light fixture to S4H.
  - b. Change WS1 light fixture to S4H.
  - c. Change S4.
5. **SHEET E300**
  - a. Add note for existing outlet.
  - b. Add height for display panel.
6. **SHEET E301C**
  - a. Add height for display panel.

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Supporting Documents:

7. **SHEET E380**
  - a. Change from demo to existing connection for generator.
8. **SHEET E381**
  - a. Add note for splice existing generator feed to new extension of line to new transfer switch.
  - b. Add notes for existing equipment.
9. **SHEET E382**
  - a. Add spare circuit breakers on panel 1LP5.
10. **SHEET E401B**
  - a. Add card readers.
11. **SHEET E401C**
  - a. Add card readers.
12. **SHEET ED501A**
  - a. Add sheet keynotes.
13. **SHEET ED502A**
  - a. Add sheet keynotes.
14. **SHEET F511A**
  - a. Add sheet keynotes.
  - b. Change horn strobes to waterproof device for exterior.
15. **SHEET F511B**
  - a. Add smoke detector, pull station, monitor modules for fire riser and a horn strobe.
16. **SHEET F511C**
  - a. Add control modules for doors and moved the room tag.

**PRIOR APPROVAL OF MANUFACTURERS OF ELECTRICAL EQUIPMENT:**

The following items, trade names, products and manufacturers are approved for bidding. Approval does not relieve the bidder from satisfying the intent of the requirements of drawings, specifications and addenda in every respect. Failure to conform to the design quality and standards specified, established and required may result in later disapproval. If equipment must be disapproved after bidding, supplier shall supply specified equipment at no extra cost to the Owner.

Items are listed generally and specific model number, etc. shall be as submitted. Items submitted but not approved, either did not satisfy the requirements, or showed insufficient data, or arrived after the 8 day deadline established for submittals.

<b><u>TYPE</u></b>	<b><u>SPECIFIED</u></b>	<b><u>APPROVED (QUANTUM)</u></b>	<b><u>APPROVED (BUILD 26)</u></b>	<b><u>APPROVED (JRC)</u></b>
D6S	LIGHTOLIER	ALPHABET LIGHTING	VANTAGE LIGHTING	LITHONIA
G22	METALUX	METALUX	ILP	LITHONIA
OB1	BEGA LIGHTING	EVERGREEN LIGHTING	\$4135.00	\$4135.00
OP5	KIM LIGHTING	KENALL	KIM LIGHTING	LITHONIA
ORL12	LUMENWERX	NULITE	STARTEK	MARK ARCHITECTURAL LIGHTING
P1	VISA LIGHTING	VISA LIGHTING	Total (6 fixtures) = \$6847.00	Total (6 fixtures) = \$6847.00
PD8	SPECTRUM	3G LIGHTING	INTEGER LIGHTS	SPECTRUM
PL4	LUMENWERX	COOPER	STARTEK	MARK ARCHITECTURAL LIGHTING

S4H	COLUMBIA	COOPER	COLUMBIA	LITHONIA
SL4	LUMENWERX	COOPER	STARTEK	MARK ARCHITECTURAL LIGHTING
SL8	LUMENWERX	COOPER	STARTEK	MARK ARCHITECTURAL LIGHTING
TP1	Q TRAN	Q TRAN	CONTECH LIGHTING	KELVIX
X1	SURE LITES	SURE LITES	BEGHELLI	LITHONIA

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#### **GENERAL QUESTIONS:**

1. *Would Ogden City like to carry it's own "weather conditions" allowance?*  
*Answer: If there is any request for additional time and any associated cost, it is preferred to be processed in a change order.*
2. *Is there a full geotechnical report available for the project?*  
*Answer: The City and Ogden Airport has agreed to use the previous geotechnical report from the last project.*
3. *Is the Project being Tax-Exempt?*  
*Answer: No, the Project is not Tax-Exempt project.*
4. Please confirm what is to be included in our bid submission envelope. For example: Invitation to Bid, Exhibit C Bid Form and Exhibit D Addenda Acknowledgement AND / OR Instructions to Bidders in Specification Book, Attachments A thru K.  
*Answer: ITB Exhibit C and D, Bid Bond, Specification Bid Forms A, B, C. Form E is required within 24 hours of the bid. The rest of the specification forms will be required prior to contract award.*
5. *Any special working hours requirements?*  
*Answer: New construction, site and basement (alternate no. 1) – General hours M – F, 7AM – 5PM. Other hours can be arranged on a weekly basis. Terminal and Hold (Waiting Room), ARFF Bay and SIDA area utility trenching – Available for general hours except for 10AM – 12PM on flight days, currently M/W/F. This schedule may change over the duration of the project, which will require some flexibility with working in those areas.*

#### **CIVIL QUESTIONS:**

1. Question: On page C1.1 key note 26 it calls for chain link but doesn't have a detail showing if it is just 6' standard chain link or high security?  
*Answer: The new fence is required to be a 6' high security chain link with additional barb wire, (matching existing), and the new fence is to tie into the existing fence without any gaps.*

#### **ARCHITECTURAL QUESTIONS:**

1. Question: On page AE201, finish E-2 has a note that states "Paint Sherwin Williams SW7650 Ellie Gray/Sandblast". Is this EIFS calling for a finish coat of paint?  
*Answer: The EIFS is not painted. The color of the EIFS coating is to match the Sherwin Williams paint color (SW7650 Ellie Gray) and have a sandblast EIFS surface finish.*
2. Please clarify if a wet/caulked system is required or if a dry-joint is acceptable  
*Answer: A dry-joint system is acceptable.*
3. Specs call for 3/8" joints typical; there is a system that is a 1/2" typical joint. Please confirm if 1/2" typical joints are acceptable.  
*Answer: The joints in the system should be 1/2" typical.*
4. Specs call for 0.060" flashing; material for trim/flashing from the specified manufacturer/finish (Alpolc's DON Grey) is only available in an 0.032" thickness. Please confirm 0.032" trim/flashing is acceptable.  
*Answer: The 0.032" thickness is acceptable for ACM flashing.*

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5. Specs reference round ACM column covers; none found in the drawings. Please confirm there are no ACM columns on the project.  
*Answer: There are no round column covers left in the design of this project.*

## **STRUCTURAL QUESTIONS:**

1. Question: 2/S501 shows HSS10x6 on both sides of the web of the W14x82 columns welded at full length. When the HSS is centered on the web of the column, there is approximately 1.25" on either side for access for welding. Please advise of an alternate attachment of the HSS strongbacks to the WF column.

Added Question: Can you tell me if the tubes on the double strongback columns could be rotated 90° like the single strongback columns are? As they are there is not enough room to get in and weld the tube to the Wide Flange column. See attached details for reference. The Double Strongback columns just don't have enough room to get in there and do the welding called for on the plans. Would the engineer approve a design like one of these tube and plate suggestion? The tubes could be welded together first and then the plates would be welded on top of them. This would have a very similar overall outside dimension as the columns called for in the drawings. And since the plates are thicker than the beam flanges were, maybe it would be similar in strength.

*Answer: We are willing to work with the steel fabricator (once selected) to find a solution that works.*

2. Question: Can you RFI to see if the AISC certified fabricator and erector requirements for the Ogden-Hinkley Airport can be waived?

1.5 QUALITY ASSURANCE

A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD.

B. Installer Qualifications: A qualified installer who participates in the AISC Quality Certification Program and is designated an AISC-Certified Erector, Category CSE.

*Answer: If the steel fabricator is not AISC certified then a Special Inspector would need to be procured by the fabricator for providing shop Special Inspections. We recommend that the installer is certified, but we do have Special Inspections on this project, so certification is not required for the installer.*

3. Could you please find out if this shrinkage spec (concrete) is correct or typed wrong. We can hit a 0.040 shrinkage spec, but not a 0.00040.

*Answer: The shrinkage is to be 0.040.*

## **ELECTRICAL QUESTIONS:**

1. Question: Will they be releasing a lighting Fixture schedule for the Bid alternate. They show PL4, S4, and D6S fixtures but they are not on the fixture schedule. How would you like me to proceed?

*Answer: The lighting fixture schedule has been updated to show these fixtures.*

2. We have come across a few light fixtures called out on the plans that are not on the lighting fixture schedule. The fixtures that aren't on the fixture schedule are: SL4, SL8, D6S, PL4, S4. Can we get more information as to what type of fixtures these are?

*Answer: The lighting fixture schedule has been updated to show these fixtures.*

3. Will you require one pull station as required by the minimum code in NFPA 72 since it is not shown? The codes states it shall be in an approved AHJ location although often we put the one pull station at the FACP location or in the riser room.

*Answer: The pull station has been added to the drawings near FACP.*

4. Will you require a smoke detector at the FACP panel as per NFPA 72?

*Answer: The smoke detector has been added to the drawings near FACP.*

5. Will you require a WP Horn Strobe outside the riser as required by Utah R710?

*Answer: The WP Horn Strobe has been added to the drawings on an exterior wall near the fire riser room.*

6. FYI we will bid this project with UL listed appliances although the Concealed Horn Strobes and Concealed strobes are not UL listed and those appliances have had lots of issues with malfunctioning so we suggest that normal UL listed Horn Strobes be used. We do have addressable or conventional Horn Strobes from Simplex. I did read your note on the drawings saying alarm devices shown are for reference only based on a performance specification although it is specific calling out for concealed horn strobes and I have dealt with those in the past and the concept seems very cool although reality is a different thing.

*Answer: There are no concealed horn strobes on the drawings. They will be UL listed horn strobes.*

7. We could provide several addressable relay modules for the access control door release although almost all access control systems only need one relay output on alarm and the access control system would then release all the access control doors at once from one relay. This of course would depend on what access control system is installed.

*Answer: Control modules have been placed at the front sliding doors for releasing the doors when the fire alarm is activated.*

8. We see that there are notes about an existing fire alarm system and to provide some monitor modules for existing devices although we were told this is a new installation and that there is not an existing system at this location. I can bid those monitor modules although it we are not going to tie to any existing equipment it would be best not to include them. I will let you decide.  
*Answer: This is a new fire system but there are existing smoke detectors and duct detectors that need to tie to the new FACP with a monitor module. These are placed in the drawings.*
9. On a fully sprinkled building without elevators you would only be required to have one smoke detector at the FACP and I see 2 on sheet 511A (Near 2 doors) and another 2 on Sheet F11B (One in kitchen storage, one in baggage screening) do you want to include these smoke detectors even though they are not required? If so we will need to include a note to the AHJ Fire Marshal explaining the justification for partial coverage smokes.  
*Answer: We want to include these smoke detectors as they are existing units that will be monitored with a monitor module.*
10. I counted 4 duct detectors, often when the RTU units are over 2000 cfm the units will come with Duct Smoke Detectors, tubes and Remote Test Switches so much of the time we only provide a monitor module to monitor and the electrical contractors wire up for shut down. Do you know if we need to provide the 4 duct detectors or just the monitor modules for those duct detectors? If the RTU is over 15,000 cfm then they have duct smoke detectors installed on the supply and the return.  
*Answer: On the existing duct detectors noted by the gray color, we only need the monitor modules. The 1 new duct detector will be an addressable duct detector near the baggage drop off area that needs to tie into the FACP.*
11. I saw a note about the ANSUL tie in and I included a monitor module although I did not see any symbols in the kitchen for a monitor module to monitor an ANSUL can you confirm?  
*Answer: The monitor module is shown in the kitchen on sheet F511B with keynote Y13.*
12. I did not see any notes or any symbols for Fire Smoke Dampers so we could provide those modules, do you know the locations and the quantities of those modules so we can plan on them? The EC will provide the 120V relay and we will provide the addressable relays from the fire alarm system.  
*Answer: There are no fire walls needing smoke dampers so modules will not be needed.*
13. In order to keep the bids apples to apples we normally bid as per the plans and the counts on the plans per the professional estimators association instructions otherwise the General Contractors would never be able to compare the bids properly. I can include 1 Fire Sprinkler Flow switch monitor module and 2 Fire Sprinkler tamper monitor modules since they are not shown in order to bid the project although if they have a large riser with 8 and 8 that would be a change order. Do you want us to include a specific number of modules?  
*Answer: The 3 monitor modules have been added near the fire riser area.*
14. Can we get some clarification on the route, location, and method of how you would like us to run the power/conduits to both the generator and transformer? Please provide on the electrical site plan or utility plan.  
*Answer: The asphalt will need to be cut to allow for conduit to be installed underground. The asphalt will then be finished where it was cut out. The feed for the generator is already existing and the conduit will need to be extended to the new location.*
15. What is the current/existing generator that we are tying into? This information is needed in order to get the correct ATS.  
*Answer: The existing generator is a "CAT" generator.*
16. Is the new Utility Transformer to be supplied and installed by us the contractor or Rocky Mtn Power/Ogden City?  
*Answer: The transformer will be supplied and installed by Rocky Mtn Power.*
17. Are there any existing conduits that will be or can be utilized for any of the power infrastructure work?  
*Answer: New conduit should be used.*
18. In different locations in the spec book (26 0526, 26 0943) it refers to hiring Independent Testing Agencies for all testing. Is this really required for all these systems?  
*Answer: You don't have to comply with those requirements.*
19. E-382 Pane 1LP5 does not have any breakers populated – wire size, pole, amps. Please Advise.  
*Answer: Panel has breakers, wire sizes, poles, and amps on sheet E-382. Spare circuit breakers have been added to the panels.*
20. We cannot locate the Existing ATS 'T2'. Per the one-line diagram there is an existing ATS 'T2' to be demolished but we do not see the 'T2' shown on the demo plan. Please advise on the location of the ATS and the extents of the demolition per the one-line diagram. E301B shows a 'T2' but we are unsure if this is signifying the NEW ATS 'T2' that the one-line on E381 calls out or if it is referring to the old one to demo.  
*Answer: The tag for ATS 'T2' has been added to the demolition plan shown on sheet ED501A. The ATS T2 transfer switch should be returned to the owner. The 'T2' shown on E301B is the new transfer switch.*

End of ADDENDUM #2



EQUIPMENT SCHEDULE

CONNECTION TYPE NOTES:

1. NON-FUSED DISCONNECT SWITCH  
2. FUSED DISCONNECT SWITCH  
3. BREAKER IN ENCLOSURE  
4. MANUAL STARTER WITH THERMAL OVERLOAD  
5. MAGNETIC STARTER  
6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION  
7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION  
8. MAGNETIC STARTER/BREAKER COMBINATION  
9. VARIABLE FREQUENCY DRIVE  
10. REDUCED VOLTAGE STARTER  
11. DIRECT CONNECTION  
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.  
13. TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE  
14. SOLID STATE SOFT-STARTER

RESPONSIBILITY LEGEND:

- A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26(16)  
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. REQUIRED CONNECTION UNDER DIVISION 26(16)  
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26(16)  
D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION

CB = CIRCUIT BREAKER

- NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN THE PHASE CONDUCTOR.  
NOTE 2: OVERCURRENT PROTECTION DEVICE (OCPD) SHOWN IS LOCATED AT POWER PANEL. ALL FUSING TO BE SIZED IN ACCORDANCE WITH FUSE MFR RECOMMENDATION FOR MOTOR NAME PLATE RATING.  
NOTE 3: ALL EQUIPMENT TO BE RATED FOR THE ENVIRONMENT FOR WHICH IT IS INSTALLED.

UNIT	#	DESCRIPTION	ELECTRICAL EQUIPMENT INFORMATION								CONDUIT SIZE	WIRE				OCPD		STARTER / DISC / VFD (OTHER SEE NOTES)	REMARKS
			HP	FLA	MCA	VA	VOLTAGE	PHASE	FULL LOAD AMPS	SETS		QTY	SIZE	EQ GROUND	TYPE	AMPS			
PHASE 2																			
ACU	1	AIR CURTAIN	0.00	0 A	19.5 A	0 VA	208 V	1	16 A	3/4"	1	2	12	12	CB	25 A	2 A		
ACU	2	AIR CURTAIN	0.00	0 A	19.5 A	0 VA	208 V	1	16 A	3/4"	1	2	12	12	CB	25 A	2 A		
FCU	1	FAN COIL UNIT	0.00	0 A	0 A	27 VA	208 V	1	0 A	3/4"	1	2	12	12	CB	15 A	2 A		
FCU	2	FAN COIL UNIT	0.00	0 A	0 A	27 VA	208 V	1	0 A	3/4"	1	2	12	12	CB	15 A	2 A		
FCU	3	FAN COIL UNIT	0.00	0 A	0 A	27 VA	208 V	1	0 A	3/4"	1	2	12	12	CB	15 A	2 A		
RTU	1	ROOFTOP UNIT	0.00	0 A	99.3 A	0 VA	208 V	3	79 A	1.14"	1	3	1	6	CB	125 A	2 A		
UH	1	UNIT HEATER	0.00	0 A	6.7 A	0 VA	120 V	1	5 A	3/4"	1	2	12	12	CB	15 A	4 A		
ALTERNATE																			
CEF	1	CEILING EXHAUST FAN	0.00	0 A	0 A	87 VA	120 V	1	1 A	3/4"	1	2	12	12	CB	15 A	4 A		
CEF	2	CEILING EXHAUST FAN	0.00	0 A	0 A	87 VA	120 V	1	1 A	3/4"	1	2	12	12	CB	15 A	4 A		
DRP	1	RECIRCULATION PUMP	0.00	0 A	2 A	0 VA	120 V	1	2 A	3/4"	1	2	12	12	CB	15 A	12 A		
FCU	A1	FAN COIL UNIT	0.00	0 A	28.9 A	0 VA	208 V	1	23 A	3/4"	1	2	10	10	CB	35 A	2 A		
HP	1	AIR COOLED HEAT PUMP	0.00	0 A	25 A	0 VA	208 V	1	20 A	3/4"	1	2	10	10	CB	30 A	2 A		

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE ABBREVIATION SCHEDULE

PROJECT MANAGER: DAREN OAKESON

- A.F.F. ABOVE FINISH FLOOR  
WALL@CLG WALL MOUNT AT CORNER OF WALL AND CEILING  
CCBA CUSTOM FINISH AS SELECTED BY THE ARCHITECT  
CCBA CUSTOM FINISH AS SELECTED BY THE ARCHITECT

- SCBA STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT  
CCBA CUSTOM FINISH AS SELECTED BY THE ARCHITECT  
SCBA STANDARD FINISH AS SELECTED BY THE ARCHITECT

LIGHT FIXTURE GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
- REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
- REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
- CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
- REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.
- REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.
- WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
- PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
- REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).
- VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE: ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.

TYPE	DESCRIPTION	MFR.	CATALOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DELIVERED LUMENS	COLOR TEMP	CRI
D6S	6" SQUARE LED DOWN LIGHT	LIGHTOLIER	6-S-N-P6S-DL-15-835-B-CD-Z10-U	120 V	15 VA	LED	1,500	3500 K	80
G22	2' x 2' RECESSED MOUNT LED TROFFER, 0-10V DIMMING	METALUX	BAA-22CZSC33-UNV	120 V	21 VA	LED	2,979	3500 K	80
OB1	EXTERIOR LIGHT BOLLARD, STANDARD COLOR BY ARCHITECT	BEGA LIGHTING	99 075 - 79 814-K4	120 V	51 VA	LED	2,370	4000 K	80
OP5	LED OUTDOOR POLE WITH SHOEBOX HEAD, 20 FT ROUND ALUMINUM POLE	KIM LIGHTING	UR20-56L-75-4K7-5QM-UNV-XX-SCBA	120 V	75 VA	LED	10,000	4000 K	80
ORL12	EXTERIOR CANOPY RECESSED LINEAR, FRONT ENTRANCE, 12 FEET LONG	LUMENWERX	VIA1.5R-HL0-FH-LED-80-350-40-UNV	120 V	59 VA	LED	4,200	4000 K	80
P1	4' 5' & 6' SIZE IN BRUSHED ALUMINUM, 2@ 4', 3@ 5', 1@ 6', 0-10V DIMMING COORDINATE LENGTH OF PENDANT AS SHOWN ON DRAWINGS AND WITH ARCHITECTURAL DRAWINGS	VISA LIGHTING	CP20xx-L35K-MVOLT-RMD-PTD-OAH192	120 V	29 VA	LED	2,600	3500 K	80
PD8	3 HEAD LED FIXTURE, ENCASED AS ONE UNIT, BLACK TRIM, PENDANT, FREE HANGING IN CEILING STRUCTURE, ALL OF FIXTURE VISIBLE	SPECTRUM	RCC824-P3-LEDXT40L-35K-ND-DS10X-SO35-SCBA-2XCD-SCBA	120 V	38 VA	LED	4,000	3500 K	80
PL4	LINEAR LED PENDANT	LUMENWERX	VIA2P-HL0-FH-SW-80-750-35-UNV	120 V	40 VA	LED	3,000	3500 K	80
SAH	4 FT STRIP LIGHT, GARAGE AND BAGGAGE COLUMBIA	COLUMBIA	LCL4-35VL-EDU-CSHG	120 V	42 VA	LED	5,329	3500 K	80
SL4	SURFACE MOUNT LINEAR FIXTURE, 4" WIDE, 4' LONG	LUMENWERX	VIA2SD-HL0-FH-SW-80-750-35-UNV	120 V	16 VA	LED	3,000	3500 K	80
SL8	SURFACE MOUNT LINEAR FIXTURE, 4" WIDE, 8' LONG	LUMENWERX	VIA4SD-HL0-FH-LED-80-500-35-UNV-B	120 V	33 VA	LED	4,000	3500 K	80
TP1	LED TAPE LIGHT FOR EXTERIOR METAL SIGN LIGHTING, WET RATED	Q TRAN	SW120/4.0-X-WET-40-CL	120 V	4 VA	LED	423	4000 K	90
X1	UNIVERSAL MOUNT EDGE LIT GREEN LED EXIT SIGN	SURE LITES	SCX60G	120 V	5 VA	LED			

RELAY PANEL SCHEDULE 'RP1'

CABINET SIZE (# OF RELAYS): 24				SPARE RELAYS: 7			
MOUNTING: SURFACE		VOLTAGE: 120V		CONTROL CIRCUIT: 1LP5-37		AIC RATING: 20,000	
RELAY	POWER	CONTROL	SPACE	DIMMING	PROGRAMMING	EMERGENCY	
RP1-1	1LP6-30	TOD	WEST LOBBY	0-10	A	Yes	
RP1-2	1LP6-37	TOD	EXTERIOR PARKING	0-10	B	Yes	
RP1-6	1LP6-41	TOD	FRONT SIGNAGE	NONE	B	Yes	
RP1-7	1LP6-41	TOD	EAST LOBBY	0-10	B	Yes	
RP1-8	1LP6-6	TOD	WEST LOBBY	0-10	B	Yes	
RP1-9	1LP6-28	TOD	WEST LOBBY	0-10	B	Yes	
RP1-10	1LP6-33	TOD	EAST LOBBY	0-10	B	Yes	
RP1-11	1LP6-24	TOD	EAST LOBBY	0-10	B	Yes	
RP1-12	1LP6-26	TOD	EAST LOBBY	0-10	B	Yes	
RP1-13	1LP6-22	TOD	EAST LOBBY	0-10	B	Yes	
RP1-14	1LP6-14	TOD	PARKING SIGNAGE	NONE	B	Yes	
RP1-15	1LP6-22	TOD	LOBBY SEATING	0-10	B	Yes	

CONTROL LEGEND		DIMMING LEGEND	
PC	EXTERIOR PHOTOCCELL	N	NONE
OC	OCCUPANCY/VACANCY SENSOR	0-10	0-10 VOLT DIMMING
DS	INTERIOR DAYLIGHT SENSOR	DMX	DIGITAL MULTIPLEX (DMX) DIMMING
MS	EXTERIOR MOTION SENSOR	3WD	3-WIRE DIMMING
TC	ANALOG ASTRONOMICAL TIMECLOCK	ELV	ELECTRONIC LOW VOLTAGE
TOD	TIME OF DAY - SOFTWARE BASED	MLV	MAGNETIC LOW VOLTAGE
LWS	LOCAL WALLSTATION	DA	DALI DIMMING
PROGRAMMING			
A NIGHT LIGHT; ALWAYS ON.			
B MASTER CLOCK SCHEDULE (PROVIDED BY OWNER); PROVIDE 0-10V DIMMING.			
C EGRESS LIGHTING; MASTER CLOCK SCHEDULE (PROVIDED BY OWNER); 0-10V DIMMING.			
D MASTER CLOCK SCHEDULE (PROVIDED BY OWNER).			
E LOCAL WALLSTATION TO ACT AS OVERRIDE FOR AFTER HOURS CONTROL.			
GENERAL NOTES			
1. PROGRAM SYSTEM TO MEET THE REQUIREMENTS OF IECC 2015 OR CURRENT ENERGY CODE.			
2. CONFIRM SWITCHING AND PROGRAMMING SCHEME WITH OWNER PRIOR TO PROGRAMMING.			
3. PROGRAM SYSTEM TO INCORPORATE AUTO DAYLIGHT SAVINGS ADJUSTMENTS, ASTRONOMICAL CLOCK WITH OFFSETS, HOLIDAY DATES, AND NETWORK OVERRIDE.			
4. REFER TO WALLSTATION DIAGRAMS FOR FACTORY ENGRAVED LABELING FOR ALL INDIVIDUAL PUSH-BUTTONS. DEVICE AND COVERPLATE COLORS SELECTED BY ARCHITECT.			
5. SUBMIT ALL WALLSTATION LAYOUTS, ENGRAVING AND CONTROL SEQUENCES DURING THE SHOP DRAWINGS REVIEW PROCESS.			
6. PROVIDE RELAY BARRIER FOR VOLTAGE AND POWER SOURCE SEPARATION (EMERGENCY AND NORMAL CIRCUITS, VOLTAGE DIFFERENCES).			
7. PROGRAM NORMAL AND EMERGENCY RELAYS IN RELATED CORRIDORS TO OPERATE TOGETHER.			
8. ALL RELAYS REQUIRING DIMMING AND/OR DAYLIGHT HARVESTING SHALL UTILIZE 0-10V DIMMING. PROVIDE 0-10V DIMMING WIRING AND CONTROLS AS REQUIRED.			
9. PROVIDE A MINIMUM OF (5) SPARE RELAYS.			

FLOOR BOX SCHEDULE

TYPE	DESCRIPTION	MFR.	CATALOG NUMBER
FB01	RECESSED FLOOR BOX, 2 GANG, LOCATED IN GATE WAITING AREA.	WIREMOLD	RFB2E-OG

Sec'd

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Project Name

Issued	No.	Date	Description

Revision	No.	Date	Description
	1	07/19/202	ADDENDUM #2
	4		

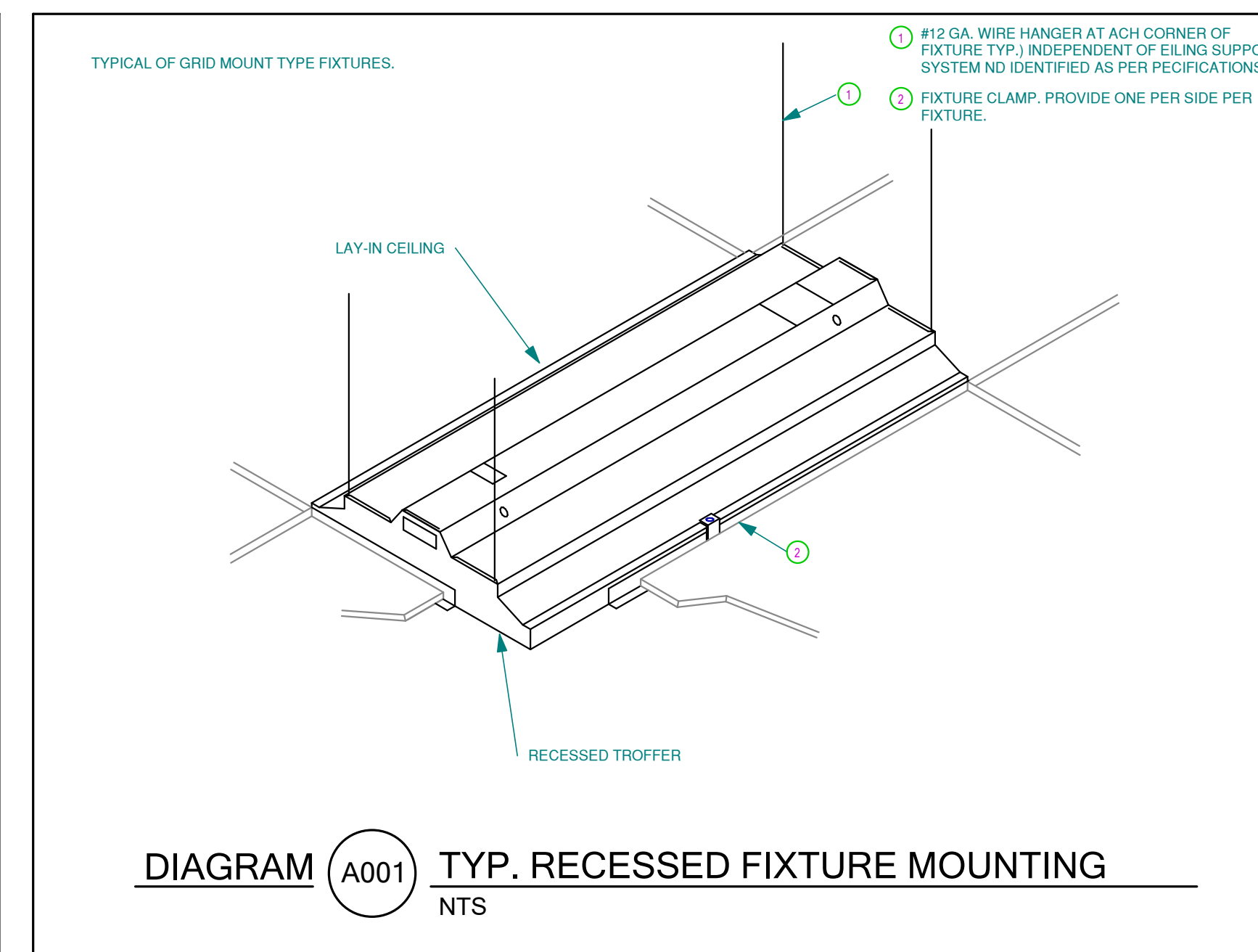
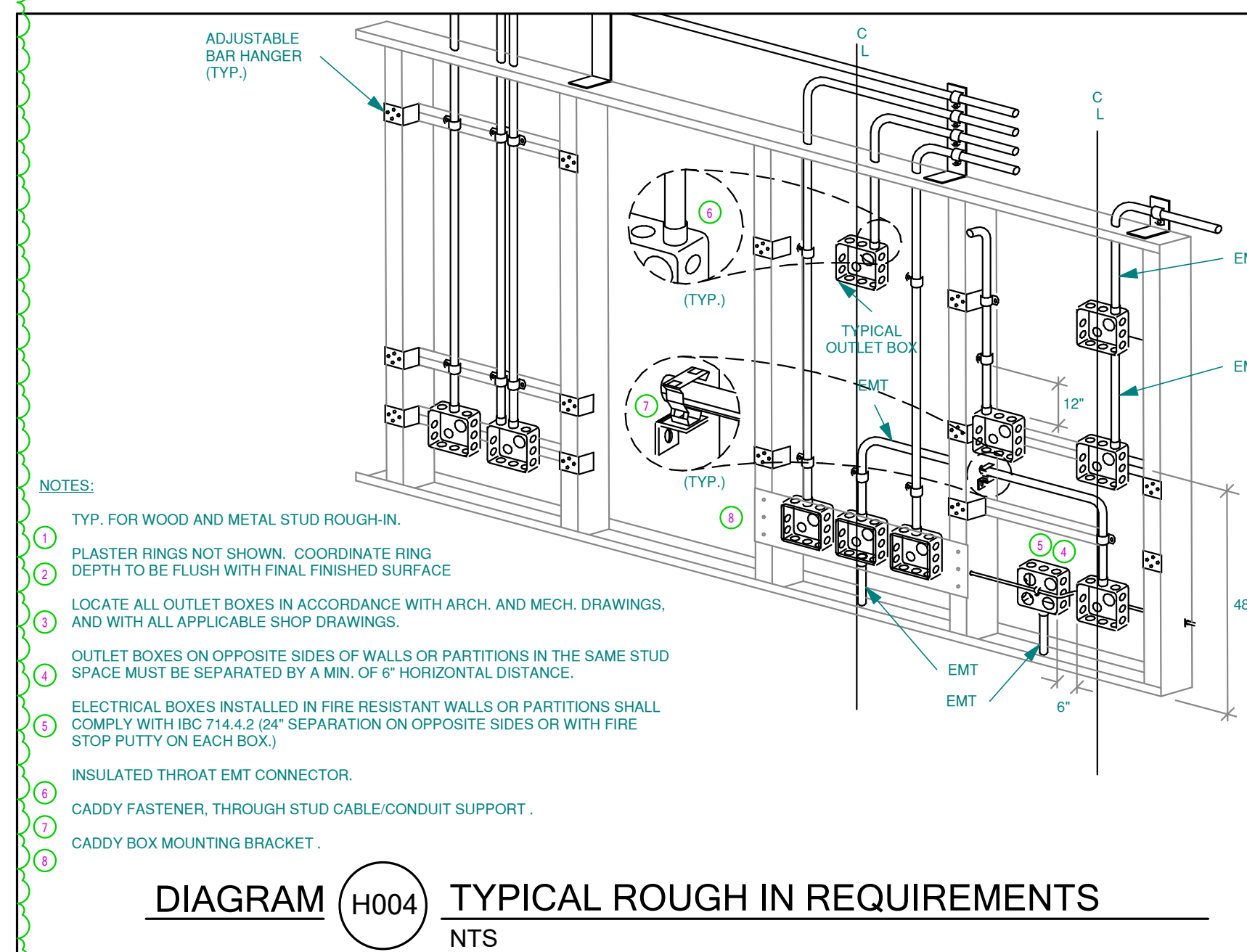
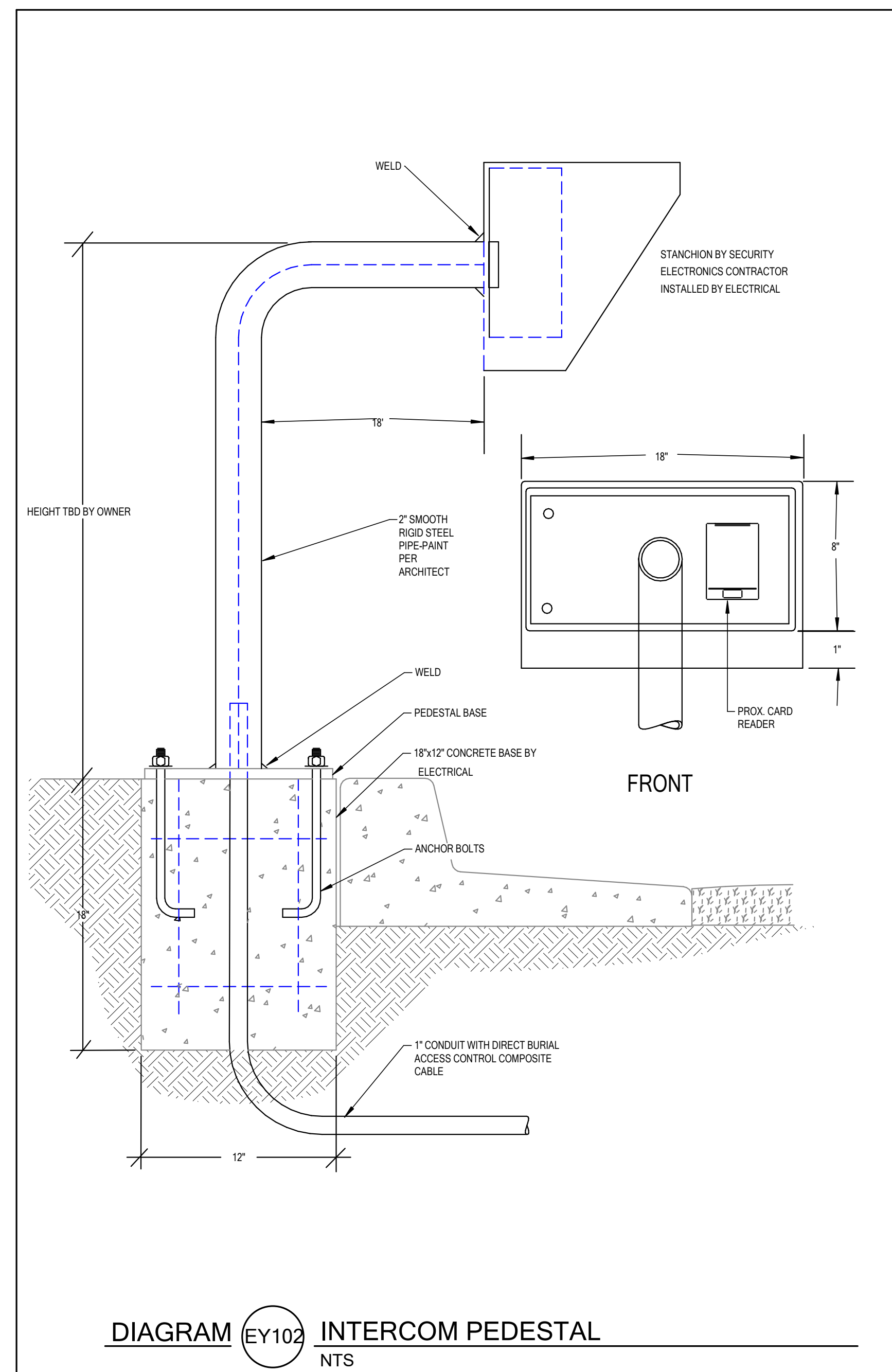
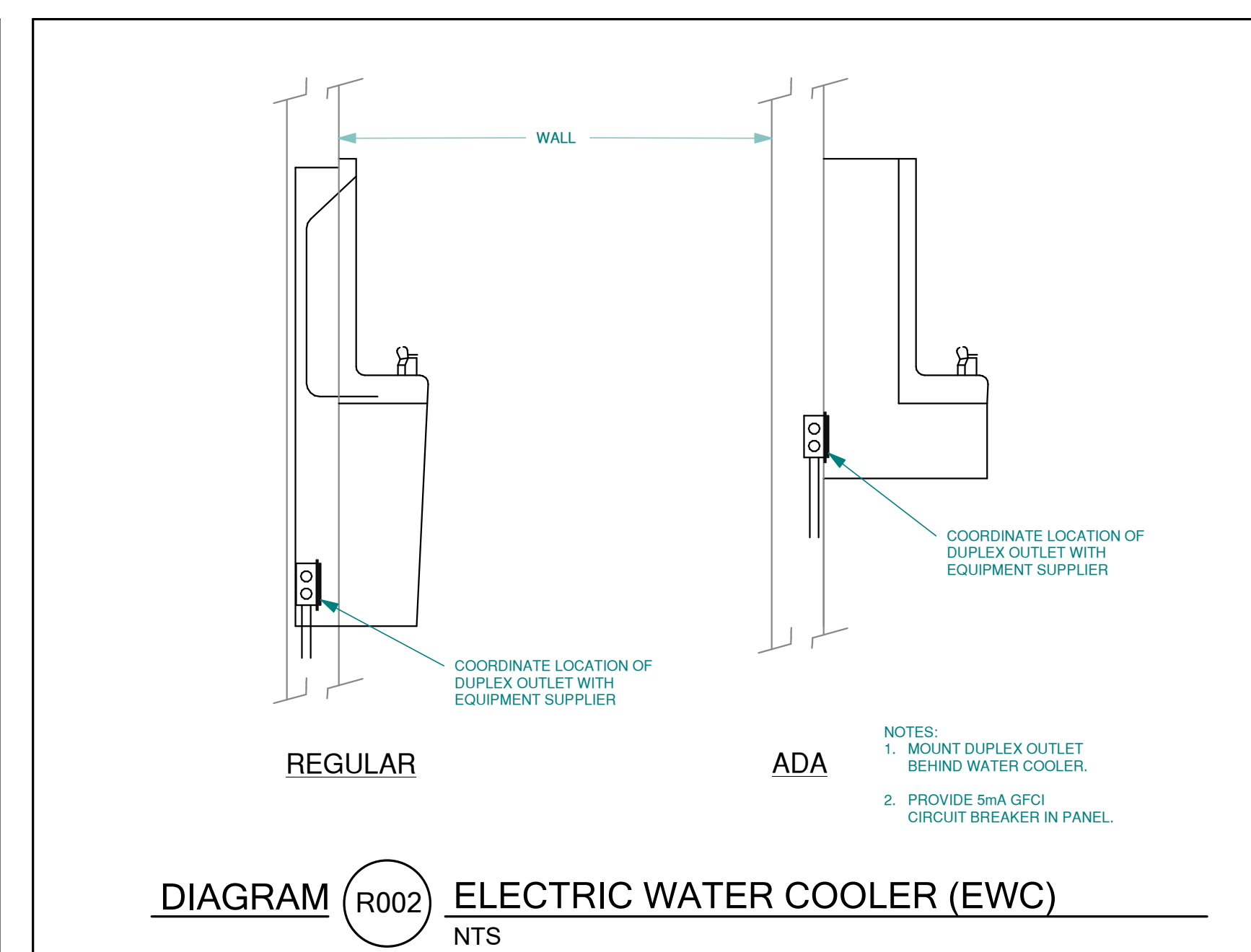
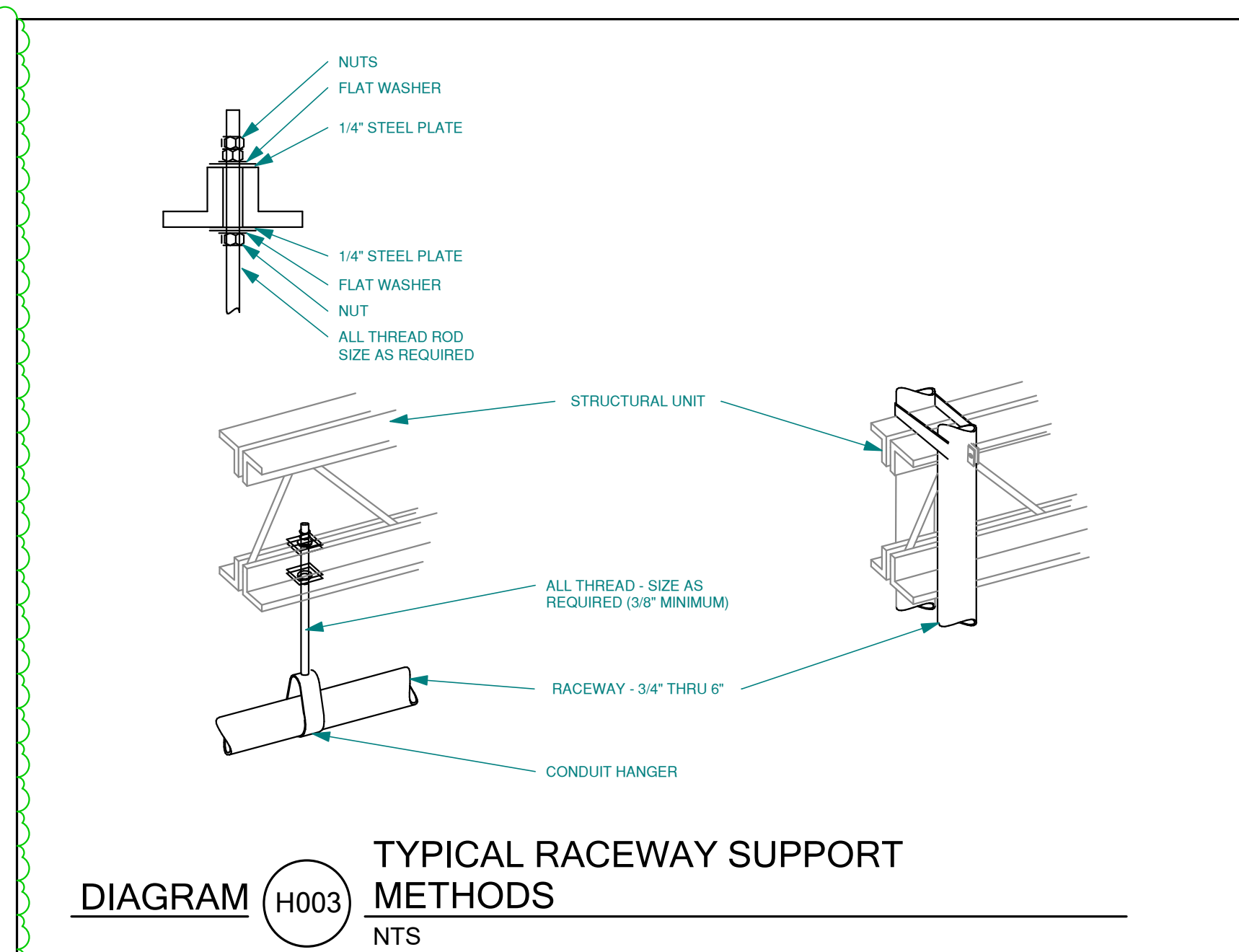
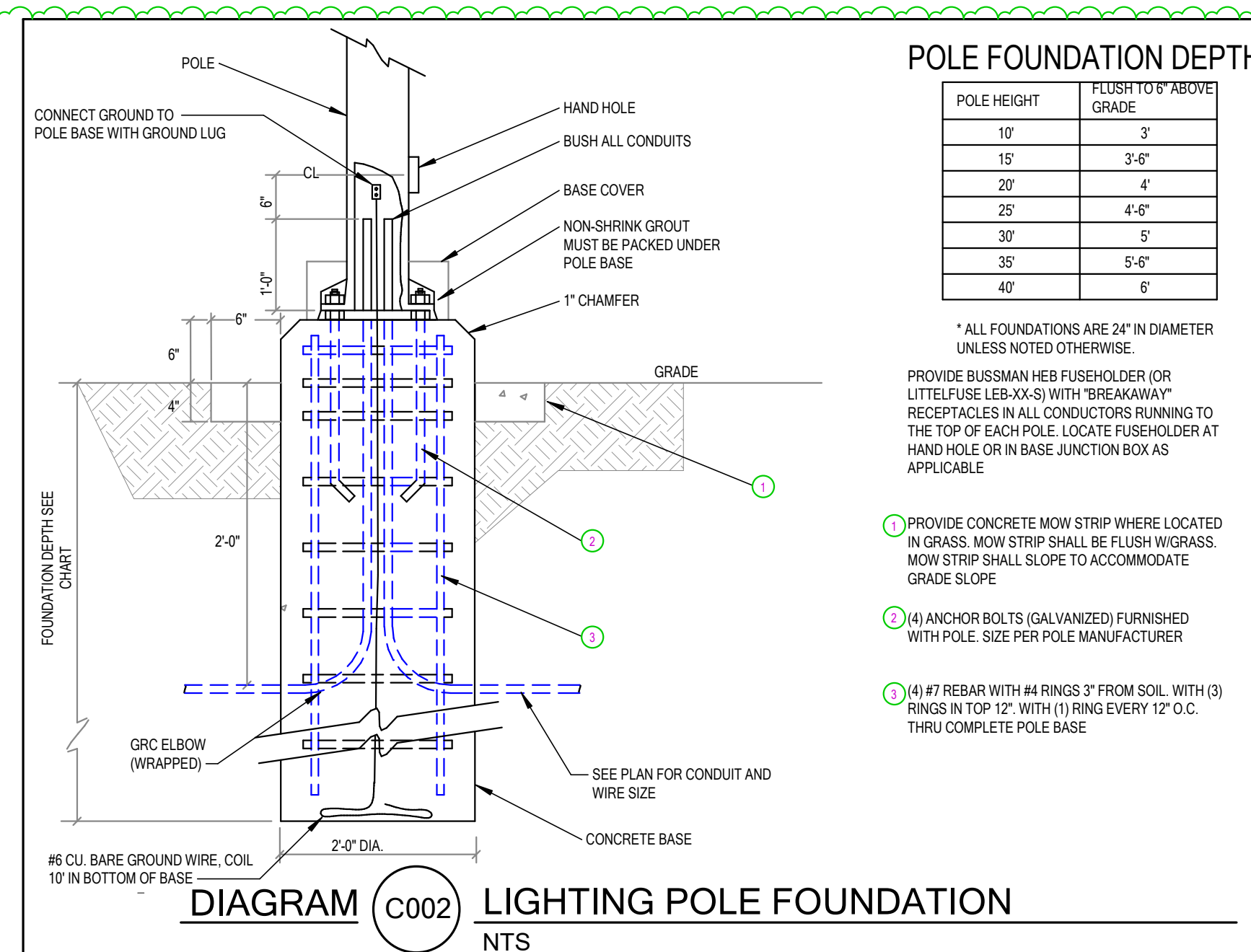
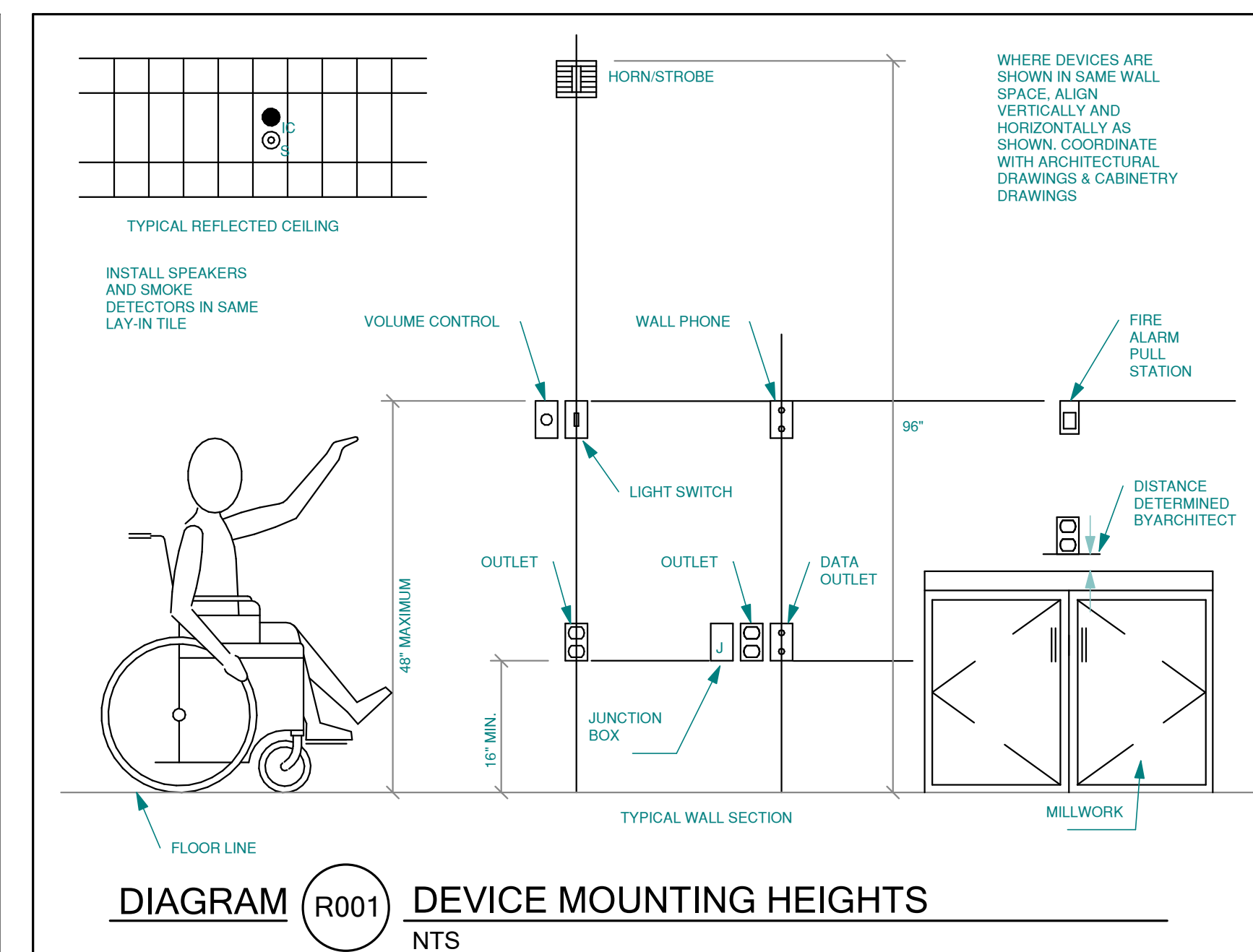
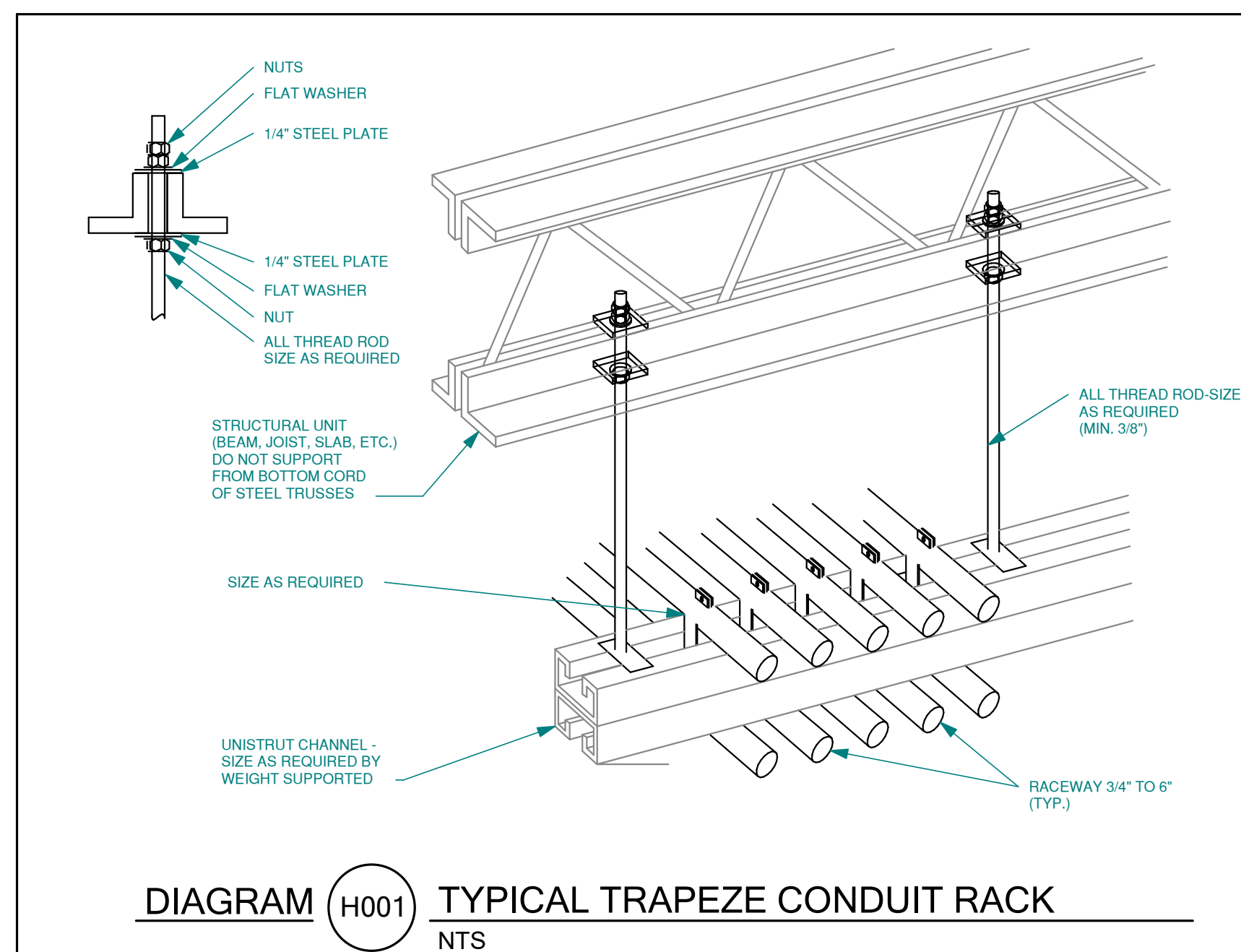
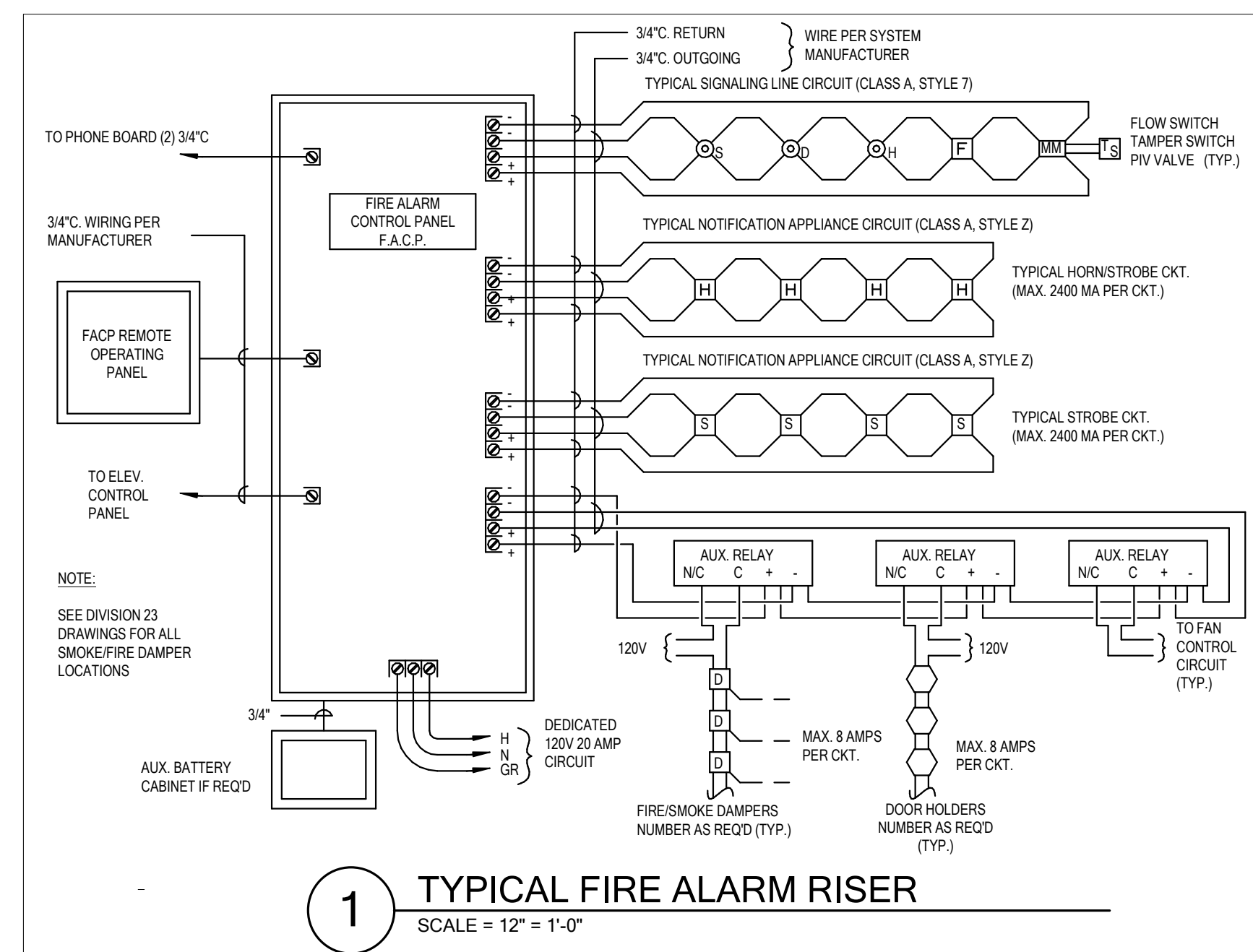
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ELECTRICAL SCHEDULES

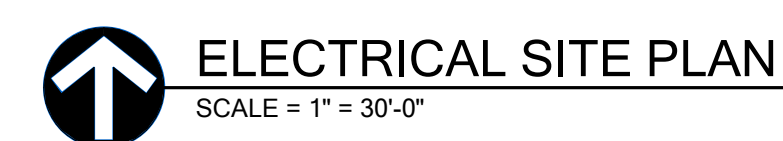
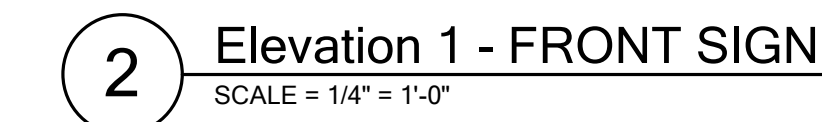
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S1	PROVIDE POWER FOR ELECTRIC SIGNAGE.
S2	PROVIDE (5) 2" CONDUIT RUNS FOR FUTURE IMPROVEMENTS TO PARKING AREA FROM THE BASEMENT ELECTRICAL ROOM B120.
S3	PROVIDE CONDUIT RUN FOR FUTURE BOLLARD INSTALLATION AT THIS LOCATION.
S4	PROVIDE CONDUIT RUN WITH POTENTIAL FOR FUTURE CONTINUATION TO BE USED FOR SOLAR PANELS OVER THE CAR STALLS.
S5	PROVIDE 1" CONDUIT RUN FOR FUTURE LIGHT POLE INSTALLATION AT THIS LOCATION. PROVIDE 12" X 18" FIBER GLASS BOX.
S6	MOUNT CAMERA ON TOP OF LIGHTING POLE. PROVIDE 1" CONDUIT FROM CAMERA TO EXISTING IT ROOM. PROVIDE 3 #12 CU CONDUCTORS FOR POWER.
S7	EXISTING TELECOM VAULT.



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3909 AIRPORT ROAD  
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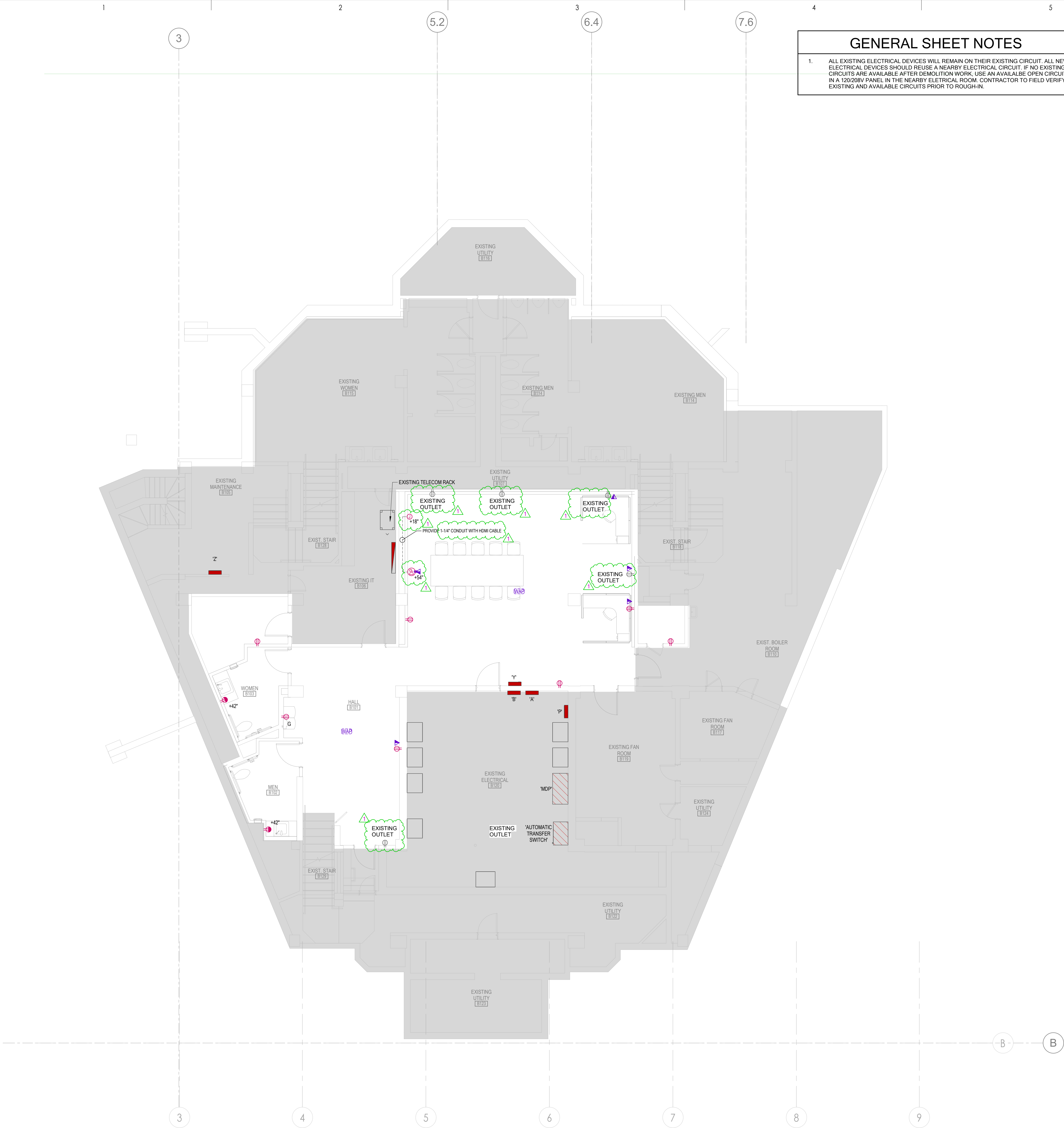

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E200B



- GENERAL SHEET NOTES
1.

ALL EXISTING ELECTRICAL DEVICES WILL REMAIN ON THEIR EXISTING CIRCUIT. ALL NEW ELECTRICAL DEVICES SHOULD REUSE A NEARBY ELECTRICAL CIRCUIT. IF NO EXISTING CIRCUITS ARE AVAILABLE AFTER DEMOLITION WORK, USE AN AVAILABLE OPEN CIRCUIT IN A 120/208V PANEL IN THE NEARBY ELECTRICAL ROOM. CONTRACTOR TO FIELD VERIFY EXISTING AND AVAILABLE CIRCUITS PRIOR TO ROUGH-IN.

- POWER GENERAL SHEET NOTES
1.

CONFIRM DATA WIRING WITH DATA RISER DIAGRAM ON SHEET E383. EACH AREA OF THE AIRPORT WILL ROUTE TO A DIFFERENT DATA RACK. CONFIRM ALL CAT-6 RUNS WITH DATA RISER DIAGRAM. IN AREA B, ALL DATA WILL RUN TO THE EXISTING BASEMENT IT ROOM. REFER TO SYSTEMS SHEET E400B FOR LOCATION.
2.

ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
3.

CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
4.

FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5.

PROVIDE 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.

SHEET KEYNOTES

↑

BASEMENT POWER PLAN

SCALE = 3/16" = 1'-0"

ADDITIVE ALTERNATE #1

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E300



Project Name

OGDEN-HINCKLEY AIRPORT  
FRONT TERMINAL EXPANSION  
3909 AIRPORT ROAD  
OGDEN, UT 84405

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No.	Date	Description
1	07/19/202	ADDENDUM #2

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BASEMENT POWER PLAN  
- ADD. ALT. #1

Sheet Number

E300

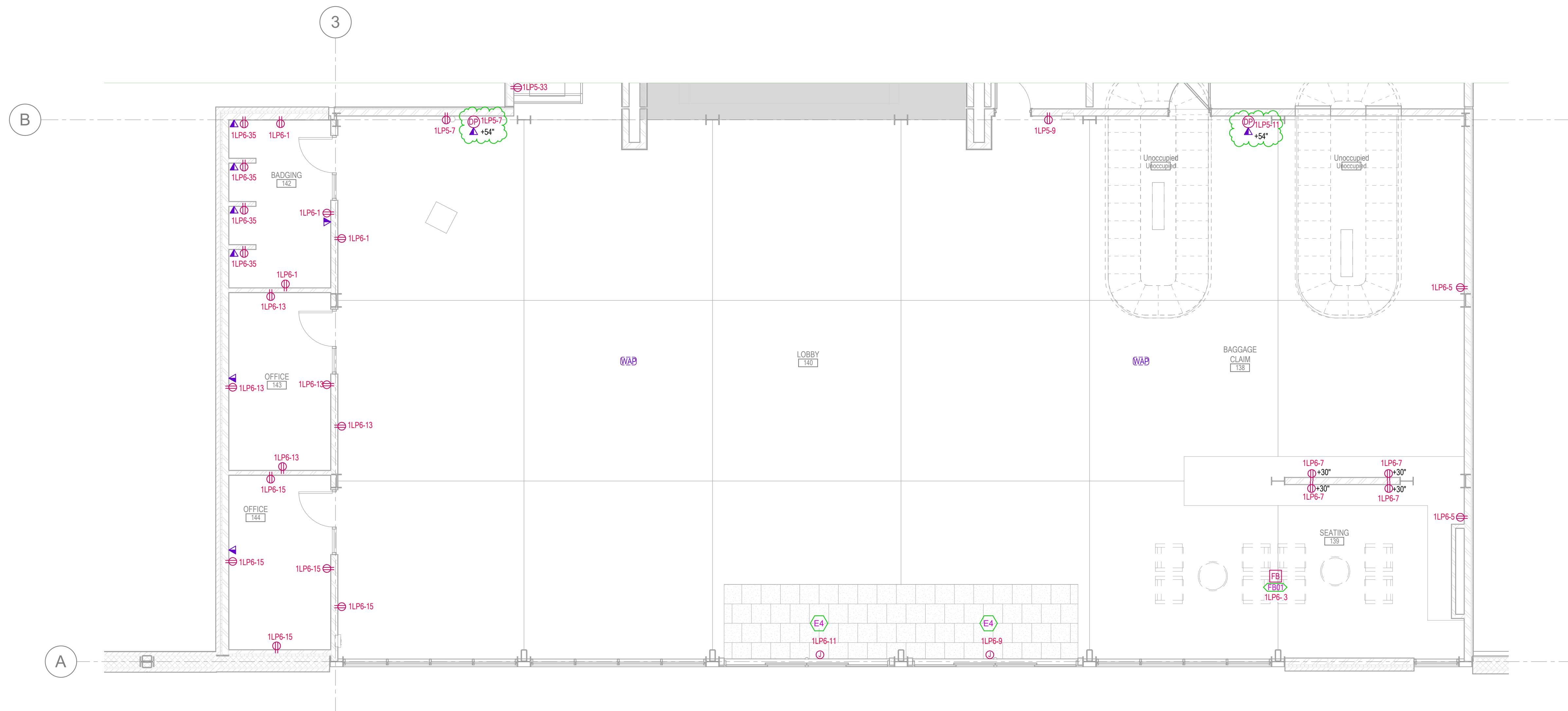


POWER GENERAL SHEET NOTES

1. CONFIRM DATA WIRING WITH DATA RISER DIAGRAM ON SHEET E383. EACH AREA OF THE AIRPORT WILL ROUTE TO A DIFFERENT DATA RACK. CONFIRM ALL CAT-6 RUNS WITH DATA RISER DIAGRAM. IN AREA B, ALL DATA WILL RUN TO THE EXISTING BASEMENT IT ROOM. REFER TO SYSTEMS SHEET E400B FOR LOCATION.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
3. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
4. FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5. PROVIDE 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.

SHEET KEYNOTES

- E4 PROVIDE POWER FOR AUTOMATIC SLIDING DOORS. CONNECTED TO THE ACCESS CONTROL SYSTEM WITH A TIMER AND MONITORING FUNCTION. 120V 5A SERVICE TO OPERATORS. OPERATORS 1/4 HP MINIMUM.



LEVEL 1 - POWER PLAN - AREA C  
SCALE = 3/16" = 1'-0"



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**OGDEN-HINCKLEY AIRPORT**  
**FRONT TERMINAL EXPANSION**  
3909 AIRPORT ROAD  
OGDEN, UT 84405

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No.	Date	Description
1	07/19/2024	ADDENDUM #2

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LEVEL 1 - POWER PLAN - AREA C

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Project Name

OGDEN-HINCKLEY AIRPORT  
FRONT TERMINAL EXPANSION

3909 AIRPORT ROAD  
OGDEN, UT 84405

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No.	Date	Description

Revision     $\Delta$  # \_\_\_\_\_

No.	Date	Description
1	07/19/202 4	ADDENDUM #2

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Drawing Title \_\_\_\_\_

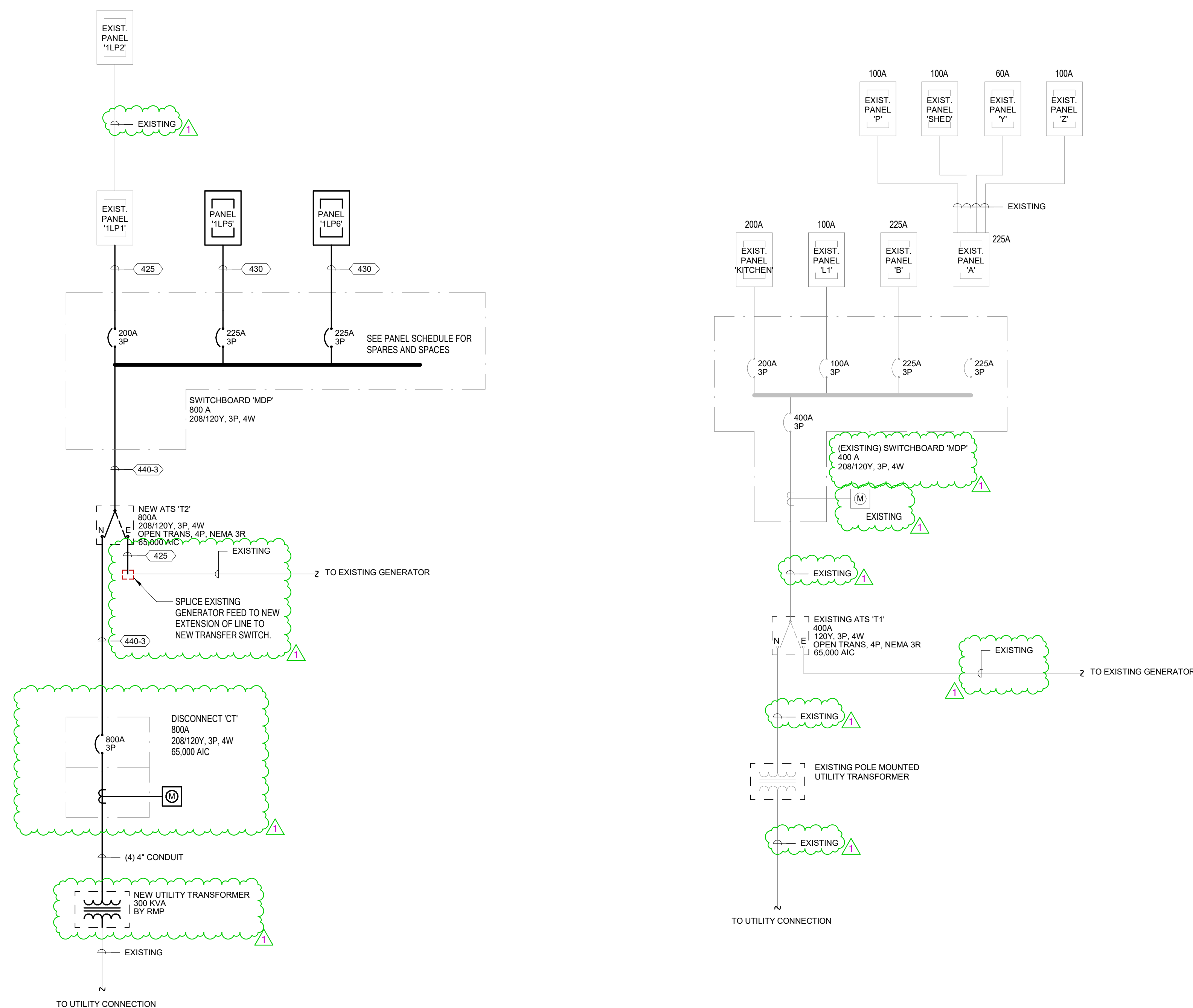
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 ONE-LINE DIAGRAM  
SCALE = 12" = 1'-0"

SCALE = 12" = 1'-0"

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE						
TYPE	AMP.	COND. SIZE	CONDUCTOR		INSULATION	EQ. GND. COND. (AL)
			QUAN.	SIZE		
31X	120	2"	3	1/0	XHHW-2	4
41X	120	2"	4	1/0	XHHW-2	4
51X	96	2"	5"	1/0	XHHW-2	4
32X	135	2"	3	2/0	XHHW-2	4
42X	135	2"	4	2/0	XHHW-2	4
52X	108	2"	5"	2/0	XHHW-2	4
33X	155	2"	3	3/0	XHHW-2	4
43X	155	2"	4	3/0	XHHW-2	4
53X	124	3"	5"	3/0	XHHW-2	4
34X	180	2"	3	4/0	XHHW-2	4
44X	180	3"	4	4/0	XHHW-2	4
54X	144	3"	5"	4/0	XHHW-2	2
325	205	2"	3	250	XHHW-2	2
425	205	3"	4	250	XHHW-2	2
525	164	3"	5"	250	XHHW-2	2
330	230	3"	3	300	XHHW-2	2
430	230	3"	4	300	XHHW-2	2
530	184	3"	5"	300	XHHW-2	2
335	250	3"	3	350	XHHW-2	2
435	250	3"	4	350	XHHW-2	2
535	200	3"	5"	350	XHHW-2	2
340	270	3"	3	400	XHHW-2	2
440	270	3"	4	400	XHHW-2	2
540	216	3"	5"	400	XHHW-2	2
350	310	4"	3	500	XHHW-2	1
450	310	4"	4	500	XHHW-2	1
550	248	4"	5"	500	XHHW-2	1
375	385	4"	3	750	XHHW-2	1
475	385	4"	4	750	XHHW-2	1
575	308	4"	5"	750	XHHW-2	1

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS							
TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN. SIZE		CONDUIT SIZE	EQ. GND. COND (A)
325-2	400	410	2	3	250	2-1/2"	2#
425-2	400	410	2	4	250	2-1/2"	2#
535-2	400	410	2	5*	350	3"	2#
350-2	600	620	2	3	500	3"	2#
450-2	600	620	2	4	500	3"	2#
535-3	600	600	3	5*	350	3"	2#
340-3	800	810	3	3	400	2-1/2"	3#
440-3	800	810	3	4	400	3"	3#
535-4	800	800	4	5*	350	4"	3#
375-3	1000	1155	3	3	750	4"	4#
475-3	1000	1155	3	4	750	4"	4#
535-5	1000	1000	5	5*	350	4"	4#
350-4	1200	1240	4	3	500	4"	250
450-4	1200	1240	4	4	500	4"	250
550-5	1200	1240	5	5*	500	4"	250
340-6	1600	1620	6	3	400	4"	350
440-6	1600	1620	6	4	400	4"	350
550-7	1600	1736	7	5*	500	4"	350
475-6	2000	2310	6	4	750	4"	600
475-7	2500	2695	7	4	750	5"	600
475-8	3000	3088	8	4	750	5"	600
475-11	4000	4235	11	4	750	5"	750

NOTES:

IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122.

GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS

\* 200% NEUTRAL, DERATED TO 80% BASED ON NEC 310.15(B)(5)(C)

\*\* COPPER CONDUCTOR (XHHW)

PROVIDE COMPACT STRANDED ALUMINUM ASSOCIATION 8000 SERIES ALLOY CONDUCTORS.

PROVIDE TERMINATION FOR ALUMINUM ALLOY CONDUCTORS OF HYDRAULIC COMPRESSION TYPE ONLY, LISTED UNDER UL 486-B, MARKED "AL70C" FOR 75 DEGREE RATED CIRCUITS.

PROVIDE ALL ELECTRICAL EQUIPMENT WITH PROPER SIZING TO ACCOMMODATE ALUMINUM CONDUCTORS. COORDINATE WITH EQUIPMENT SUPPLIER.

TYPE	AMP.	COND SIZE	CONDUCTOR QUAN.	CONDUIT SIZE	INSULATION	EQ. GND. COND. (CU)
20	30	3/4"	2	10	THWN	10
30	30	3/4"	3	10	THWN	10
40	30	3/4"	4	10	THWN	10
28	40	1"	2	8	THWN	10
38	40	1"	3	8	THWN	10
48	40	1"	4	8	THWN	10
26	55	1"	2	6	THWN	8
36	55	1"	3	6	THWN	8
46	55	1"	4	6	THWN	8
24	70	1 1/4"	2	4	THWN	8
34	70	1-1/4"	3	4	THWN	8
44	70	1-1/4"	4	4	THWN	8
22	85	1-1/4"	2	3	THWN	8
32	85	1-1/4"	3	3	THWN	8
42	85	1-1/4"	4	3	THWN	8
32	95	1-1/2"	3	2	THWN	6
42	95	1-1/2"	4	2	THWN	6

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### ONE-LINE DIAGRAM

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31 GEORGE ST LUXE

Project Name

OGDEN-HINCKLEY AIRPORT  
FRONT TERMINAL EXPANSION

3909 AIRPORT ROAD  
OGDEN, UT 84405

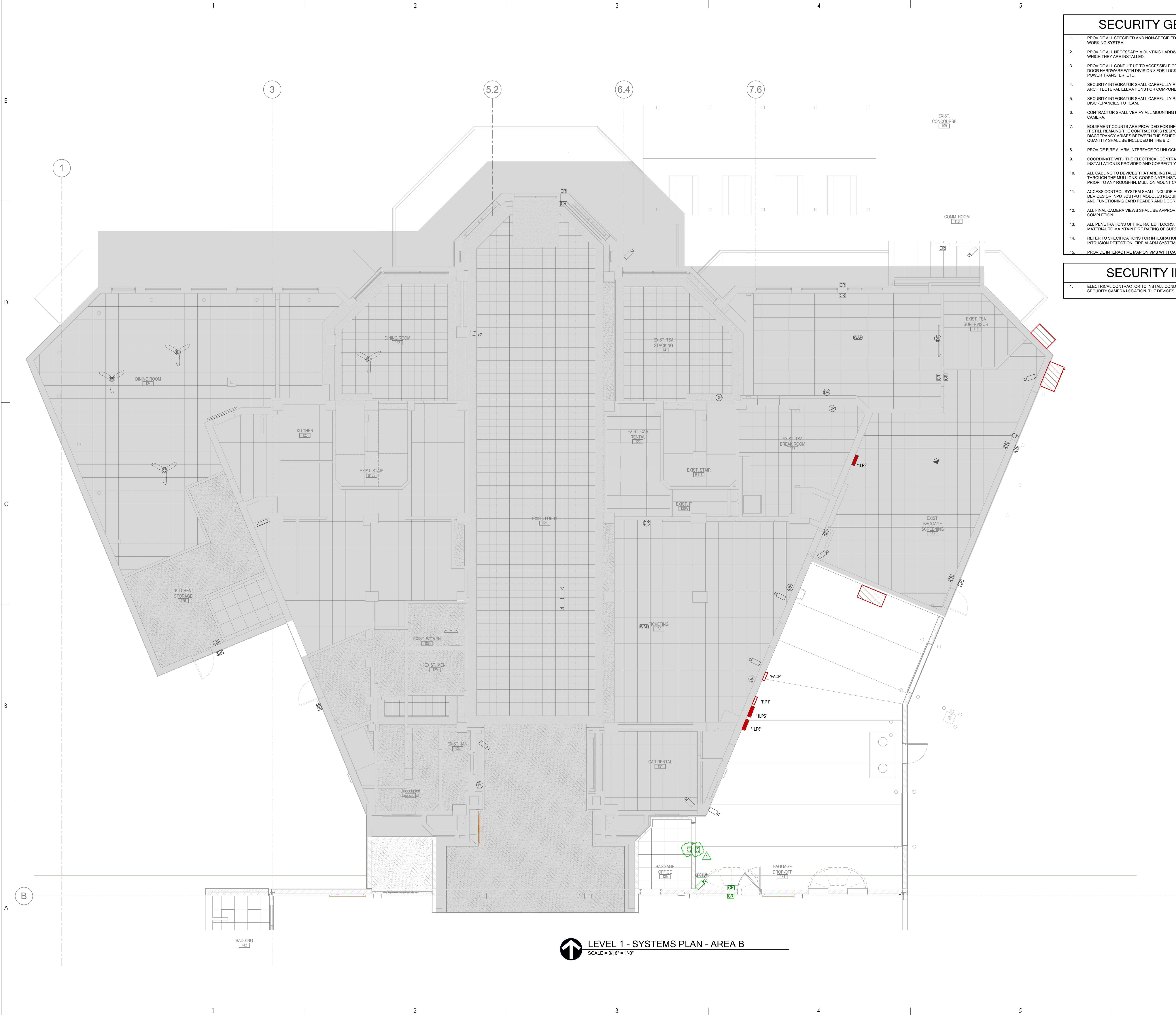
3909 AIRPORT ROAD  
OGDEN, UT 84405

SWITCHBOARD SCHEDULE							
Switchboard: MDP							
LOCATION: Space 150							
SUPPLY FROM:							
MOUNTING:							
ENCLOSURE:							
BUSSING:							
VOLTS: 120/208 Y							
PHASE: 3							
WIRES: 4							
AIC RATING: 65,000 AIC							
MAINS TYPE: MLO							
MAINS RATING: 800 A							
DOOR-IN-DOOR X							
200% NEUTRAL							
SPD: X							
CKT	CIRCUIT DESCRIPTION	# OF...	AMP...	A	B	C	REMARKS
1	1LP5	3	225 A	3292 VA	3720 VA	4397 VA	
2	1LP6	3	225 A	17019 VA	16280 VA	18635 VA	
3	1LP1	3	200 A	16690 VA	17944 VA	18100 VA	
4	SPACE ONLY - 225 A	--	--	0 VA			--
5	SPACE ONLY - 225 A	--	--	0 VA			--
6	SPACE ONLY - 225 A	--	--	0 VA			--
7	SPACE ONLY - 225 A	--	--	0 VA			--
8	SPACE ONLY - 225 A	--	--	0 VA			--
9	SPACE ONLY - 225 A	--	--	0 VA			--
10	SPACE ONLY - 225 A	--	--	0 VA			--
				TOTAL LOAD (VA):	37001 VA	37944 VA	41133 VA
				TOTAL LOAD (AMPS):	308 A	317 A	344 A
				TOTAL CONN. LOAD:	115078 VA		
				TOTAL CURRENT...	319 A		
NOTES:							

PANELBOARD SCHEDULE															
PANEL: 1LP6				TYPE: Type 1			VOLTS: 120/208 Y			PHASE: 3			WIRES: 4		
MOUNTING: SURFACE				LOCATION: Space 150						MAINS: MLO					
BUSSING: ALUMINUM				FED FROM: MDP						SUBFEED LUGS					
				AMP: 225 A						DOOR-IN-DOOR					
										ISO GROUND					
										200% NEUTRAL					
										SPD					
BRANCH BREAKERS															
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM
RECEPT Space 134	20 A	1	12	1	720			14			2	12	2	15 A	HVAC Space 143 (FCU-2)
RECEPT SEATING 139	20 A	1	12	3		180			14		4	--	--	--	--
RECEPT Room 138, 139	20 A	1	12	5			360				6	12	1	20 A	Other Space 134
RECEPT SEATING 139	20 A	1	12	7	720			250			8	12	1	20 A	HVAC Space 133
POWER LOBBY 140	20 A	1	12	9		750			14		10	12	2	15 A	HVAC OFFICE 144 (FCU-3)
POWER LOBBY 140	20 A	1	12	11			750				12	--	--	--	--
RECEPT Space 133	20 A	1	12	13	900			1200			14	8	1	20 A	Other
RECEPT OFFICE 144	20 A	1	12	15		900			9540		16	1	3	20 A	HVAC Space 150
HVAC Space 150 (JH-1)	15 A	1	12	17			643				18	--	--	--	--
HVAC Space 142 (FCU-1)	15 A	2	12	19	14			9540			20	--	--	--	--
--	--	--	--	21		14			858		22	12	1	20 A	LIGHTING
AIR CURTAIN (ACU-1)	25 A	2	12	23			1622			1155	24	12	1	20 A	LIGHTING
--	--	--	--	25	1622				1140		26	12	1	20 A	LIGHTING
AIR CURTAIN (ACU-2)	25 A	2	12	27		1622				1239	28	12	1	20 A	LIGHTING
--	--	--	--	29			1622				230	30	1	20 A	LIGHTING
Other OFFICE 144	20 A	1	12	31	247						32				
LIGHTING	20 A	1	12	33		1140					34				
RECEPT Space 134	20 A	1	12	35			720				36				
SITE LIGHTING SOUTH	20 A	1	8	37	652						38				
LIGHTING LOBBY 140	20 A	1	12	39		10					40				
LIGHTING	20 A	1	10	41			825				42				
					17019	16280	18635	TOTAL (VA)		CONNECTED LOAD TOTAL					
					143 A	136 A	156 A	AMPS/PHASE		51934 VA					
AIC RATING 22,000															
AMPS RMS SYSM.															
NOTES:															
** PROVIDE 5mA GFCI CIRCUIT BREAKER															
** PROVIDE ARC-FAULT CIRCUIT BREAKER															

PANELBOARD SCHEDULE															
PANEL: 1LP5					TYPE: Type 1			VOLTS: 120/208 Y			PHASE: 3		WIRES: 4		
MOUNTING: SURFACE					LOCATION: Space 150					MAINS: MLO					
BUSSING: ALUMINUM					FED FROM: MDP					SUBFEED LUGS					
					AMP: 225 A					DOOR-IN-DOOR					
										ISO GROUND					
										200% NEUTRAL					
										SPD					
BRANCH BREAKERS															
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM
RECEPT Space 153	20 A	1	12	1	720			0			2	--	1	20 A	SPARE
RECEPT Space 150	20 A	1	12	3		1280			0		4	--	1	20 A	SPARE
Other Space 153	20 A	1	12	5			797			0	6	--	1	20 A	SPARE
RECEPT LOBBY 140	20 A	1	12	7	180			0			8	--	1	20 A	SPARE
RECEPT BAGGAGE CLAIM 138	20 A	1	12	9		180			0		10	--	1	20 A	SPARE
Other BAGGAGE CLAIM 138	20 A	1	12	11			100			0	12	--	1	20 A	SPARE
LIGHTING	20 A	1	12	13	42			0			14	--	1	20 A	SPARE
RECEPT Space 150	20 A	1	12	15		540		0			16	--	1	20 A	SPARE
POWER Space 150	20 A	1	12	17			1200			0	18	--	1	20 A	SPARE
POWER	20 A	1	12	19	50			0			20	--	1	20 A	SPARE
RECEPT	20 A	1	12	21		180			0		22	--	1	20 A	SPARE
POWER Space 150	20 A	1	12	23			1200			0	24	--	1	20 A	SPARE
POWER Space 150	20 A	1	12	25	600					0	26	--	1	20 A	SPARE
POWER Space 150	20 A	1	12	27			1200		0		28	--	1	20 A	SPARE
POWER Space 150	20 A	1	12	29			600			0	30	--	1	20 A	SPARE
POWER Space 150	20 A	1	12	31	1200			0			32	--	1	20 A	SPARE
RECEPT	20 A	1	12	33		360			0		34	--	1	20 A	SPARE
FACP	20 A	1	12	35			500			0	36	--	1	20 A	SPARE
RP1	20 A	1	12	37	500			0			38	--	1	20 A	SPARE
				39						0	40	--	1	20 A	SPARE
				41							42	--	1	20 A	SPARE





- ### SECURITY GENERAL NOTES

  1. PROVIDE ALL SPECIFIED AND NON-SPECIFIED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.
  2. PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR CAMERAS, APPROPRIATE TO THE LOCATION IN WHICH THEY ARE INSTALLED.
  3. PROVIDE ALL CONDUIT UP TO ACCESSIBLE CEILING. SECURITY INTEGRATOR SHALL COORDINATE ALL DOOR HARDWARE WITH DIVISION 8 FOR LOCK TYPES, POWER SUPPLIES, DOOR CONTACT SWITCH, POWER TRANSFER, ETC.
  4. SECURITY INTEGRATOR SHALL CAREFULLY REVIEW THE REFLECTED CEILING PLANS AND ARCHITECTURAL ELEVATIONS FOR COMPONENT INSTALLATION.
  5. SECURITY INTEGRATOR SHALL CAREFULLY REVIEW DOOR HARDWARE SUBMITTAL AND SUMMARIZE DISCREPANCIES TO TEAM.
  6. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS/LOCATIONS TO ENSURE IDEAL VIEWS FOR EACH CAMERA.
  7. EQUIPMENT COUNTS ARE PROVIDED FOR INFORMATION ONLY AT A CONVENIENCE TO THE CONTRACTOR. IT STILL REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DRAWING QUANTITIES. IF A DISCREPANCY ARISES BETWEEN THE SCHEDULE COUNTS AND THE DRAWING COUNTS, THE HIGHEST QUANTITY SHALL BE INCLUDED IN THE BID.
  8. PROVIDE FIRE ALARM INTERFACE TO UNLOCK ALL INDICATED LOCKS UPON ANY FIRE ALARM INITIATION.
  9. COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN TO ENSURE A COMPLETE INSTALLATION IS PROVIDED AND CORRECTLY INSTALLED.
  10. ALL CABLING TO DEVICES THAT ARE INSTALLED WITHIN DOOR OR ON MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE INSTALLATION WITH THE DOOR/WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. MULLION MOUNT CARD READERS DO NOT REQUIRE BACK BOX.
  11. ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES OR INPUT/OUTPUT MODULES REQUIRED TO SUPPORT DOOR TYPE INDICATED FOR COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL.
  12. ALL FINAL CAMERA VIEWS SHALL BE APPROVED BY SECURITY ENGINEER PRIOR TO PROJECT COMPLETION.
  13. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
  14. REFER TO SPECIFICATIONS FOR INTEGRATION BETWEEN VIDEO MANAGEMENT, ACCESS CONTROL, INTRUSION DETECTION, FIRE ALARM SYSTEMS, ETC.
  15. PROVIDE INTERACTIVE MAP ON VMS WITH CAMERA AND ACCESS CONTROL DEVICES.
- ### SECURITY INSTALLATION

  1. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT TO EACH CARD READER, DOOR HARDWARE, AND SECURITY CAMERA LOCATION. THE DEVICES AND INSTALLATION WILL BE PROVIDED BY OGDEN IT.

# SAA

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11/15/2022

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OGDEN-HINCKLEY AIRPORT  
FRONT TERMINAL EXPANSION  
3909 AIRPORT ROAD  
OGDEN, UT 84405

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SAA Project No.  
Drawing Title

LEVEL 1 - SYSTEMS PLAN  
- AREA B

Sheet Number

# E401B

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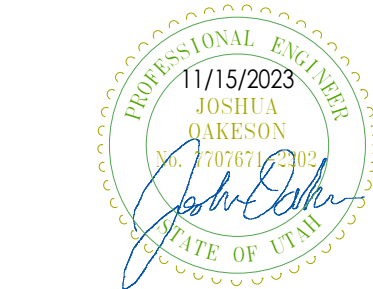
SHEET KEYNOTES

SECURITY GENERAL NOTES

1. PROVIDE ALL SPECIFIED AND NON-SPECIFIED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.
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11. ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES OR INPUT/OUTPUT MODULES REQUIRED TO SUPPORT DOOR TYPE INDICATED FOR COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL.
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13. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
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SECURITY INSTALLATION

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LEVEL 1 - SYSTEMS PLAN  
- AREA C

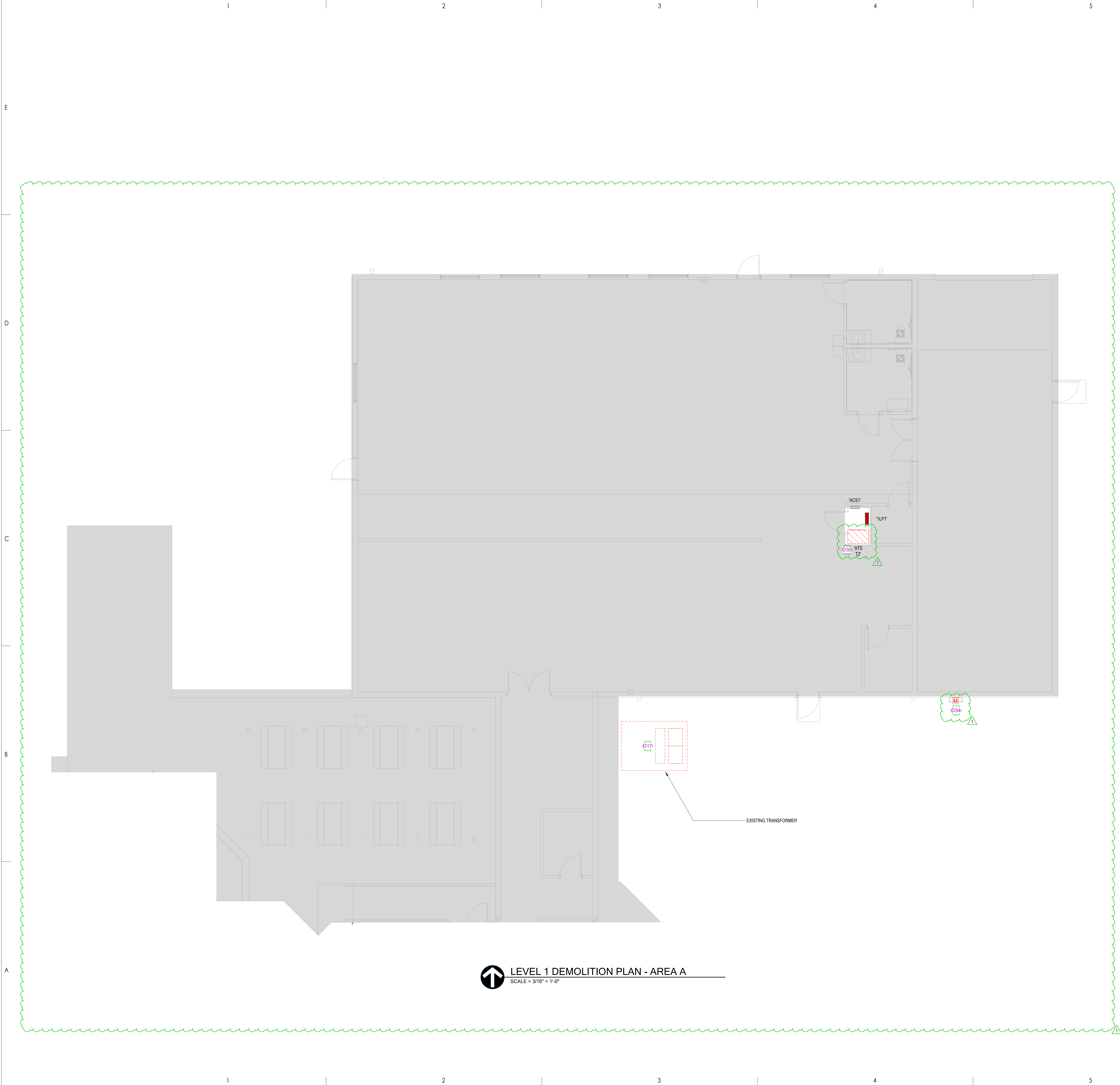
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LEVEL 1 - SYSTEMS PLAN - AREA C  
SCALE = 3/16" = 1'-0"





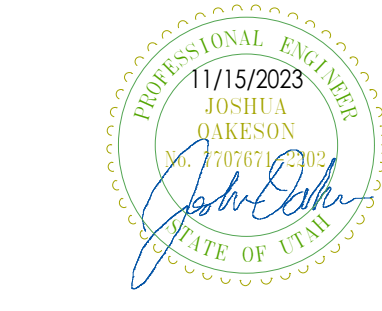
 **LEVEL 1 DEMOLITION PLAN - AREA A**  
SCALE = 3/16" = 1'-0"

## DEMOLITION NOTES

- SCOPE OF WORK IS DEMONSTRATED BY ITEMS SHOWN IN RED/DASHED LINE TYPE. REMOVE ELECTRICAL CONNECTIONS FOR ALL EQUIPMENT IN NON-SHADED REGIONS. PLANS DO NOT REFLECT A PERFECT REPRESENTATION OF THE EXISTING DEVICES BUT HAVE BEEN PROVIDED TO SHOW THE MAGNITUDE OF THE SCOPE OF WORK.
- REMOVE ALL ELECTRICAL CONNECTIONS FOR ALL MECHANICAL EQUIPMENT TO BE DEMOLISHED. COORDINATE ALL WORK WITH MECHANICAL DEMOLITION PLANS.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC BACK TO SERVING PANEL.
- REMOVE EXISTING LIGHT FIXTURES AND DISPOSE OF THEM.
- AT THE END OF EACH DAY, VERIFY THAT RUNWAY LIGHTING IS OPERATIONAL PRIOR TO LEAVING FOR THE DAY.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.
- THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.

## SHEET KEYNOTES

- |     |  |
|-----|--|
| D17 | EXISTING TRANSFORMER AND METER/DISCONNECT TO REMAIN.   |
| D34 | REMOVE EXISTING ELECTRICAL METER INCLUDING ALL WIRE FROM TRANSFORMER TO THE METER AND METER TO PANEL LP1. ABANDON CONDUIT UNDERGROUND. |
| D35 | REMOVE EXISTING TRANSFER SWITCH AND RETURN TO OWNER.   |



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LEVEL 1 - DEMOLITION  
PLAN AREA - A

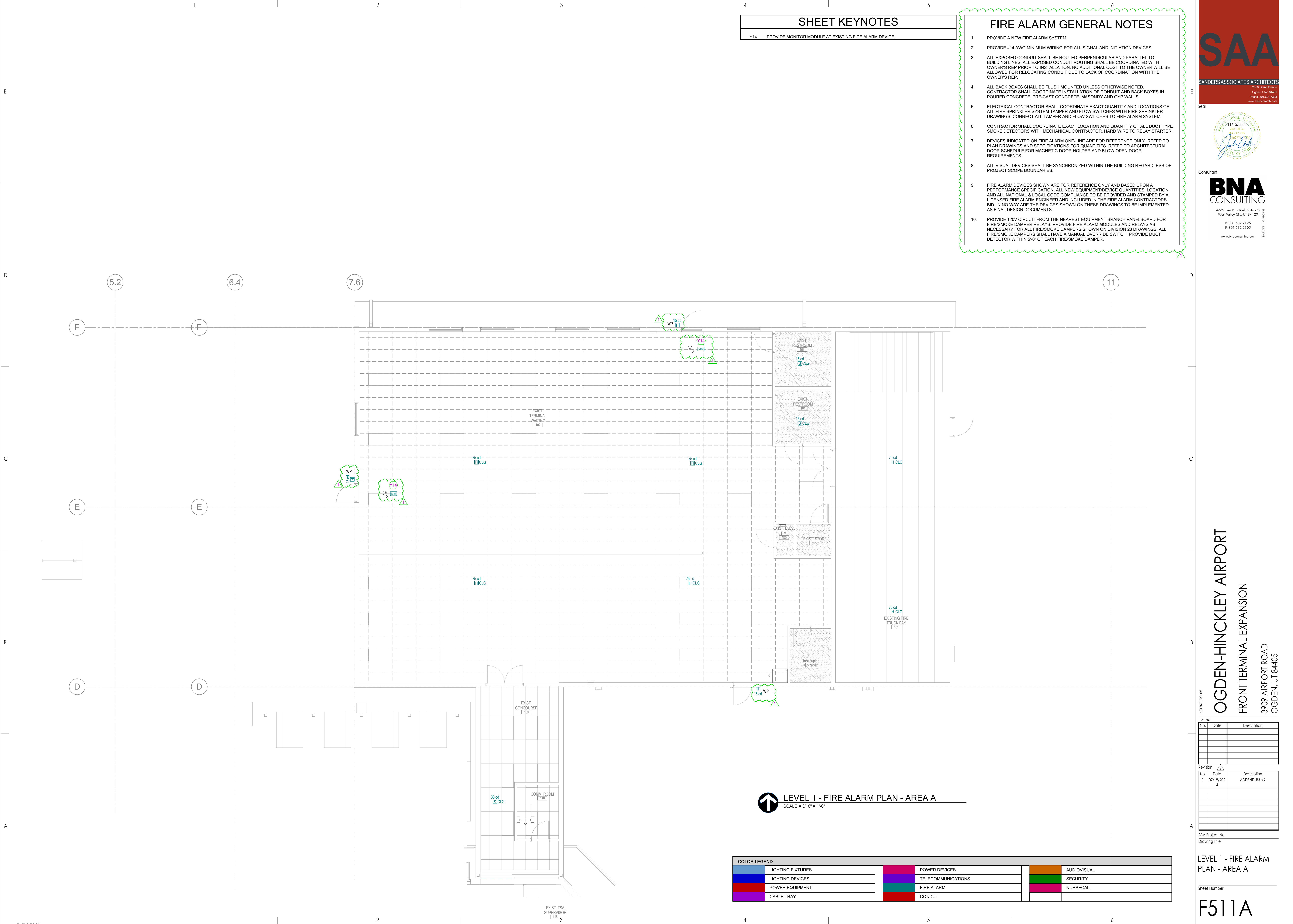
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**LEVEL 1 - FIRE ALARM**  
**PLAN - AREA A**  
Sheet Number  
**F511A**



Y13	PROVIDE MONITOR MODULE AT ANSUL SYSTEM. COORDINATE LOCATION WITH OWNER.
Y14	PROVIDE MONITOR MODULE AT EXISTING FIRE ALARM DEVICE.
Y15	PROVIDE MONITOR MODULES FOR FLOW AND TAMPER SWITCHES AT THE FIRE RISER.

1. PROVIDE A NEW FIRE ALARM SYSTEM.
2. PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
3. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH OWNER'S REP PRIOR TO INSTALLATION. NO ADDITIONAL COST TO THE OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO LACK OF COORDINATION WITH THE OWNER'S REP.
4. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, PRE-CAST CONCRETE, MASONRY AND GYP WALLS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT QUANTITY AND LOCATIONS OF ALL FIRE SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES WITH FIRE SPRINKLER DRAWINGS. CONNECT ALL TAMPER AND FLOW SWITCHES TO FIRE ALARM SYSTEM.
6. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND QUANTITY OF ALL DUCT TYPE SMOKE DETECTORS WITH MECHANICAL CONTRACTOR. HARD WIRE TO RELAY STARTER.
7. DEVICES INDICATED ON FIRE ALARM ONE-LINE ARE FOR REFERENCE ONLY. REFER TO ALL DRAWINGS AND SPECIFICATIONS FOR ALL QUANTITIES. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MAGNETIC DOOR HOLDER AND BLOW OPEN DOOR REQUIREMENTS.
8. ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING REGARDLESS OF PROJECT SCOPE BOUNDARIES.
9. FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATION, AND ALL NATIONAL & LOCAL CODE COMPLIANCE TO BE PROVIDED AND STAMPED BY A LICENSED FIRE ALARM ENGINEER AND INCLUDED IN THE FIRE ALARM CONTRACTORS' SUBMITTAL. IN NO WAY ARE THE DEVICES SHOWN ON THESE DRAWINGS TO BE IMPLEMENTED AS FINAL DESIGN DOCUMENTS.
10. PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT RACK PANEL BOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL BE PROVIDED WITH A MANUAL RESET SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER.

consultant

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SALT LAKE ST. GEORGE

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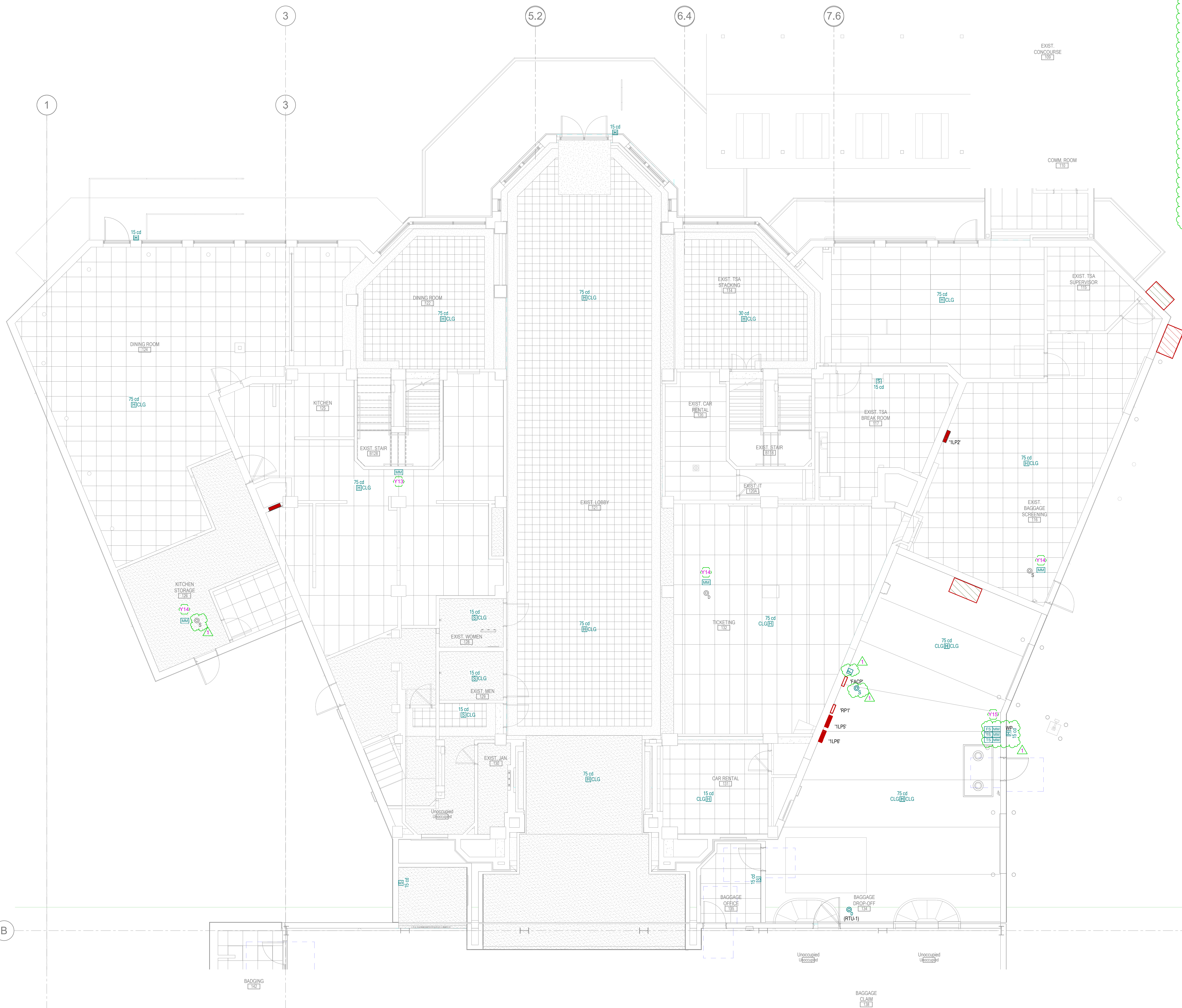
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LEVEL 1 - FIRE ALARM  
LAN - AREA B

Sheet Number

F511B

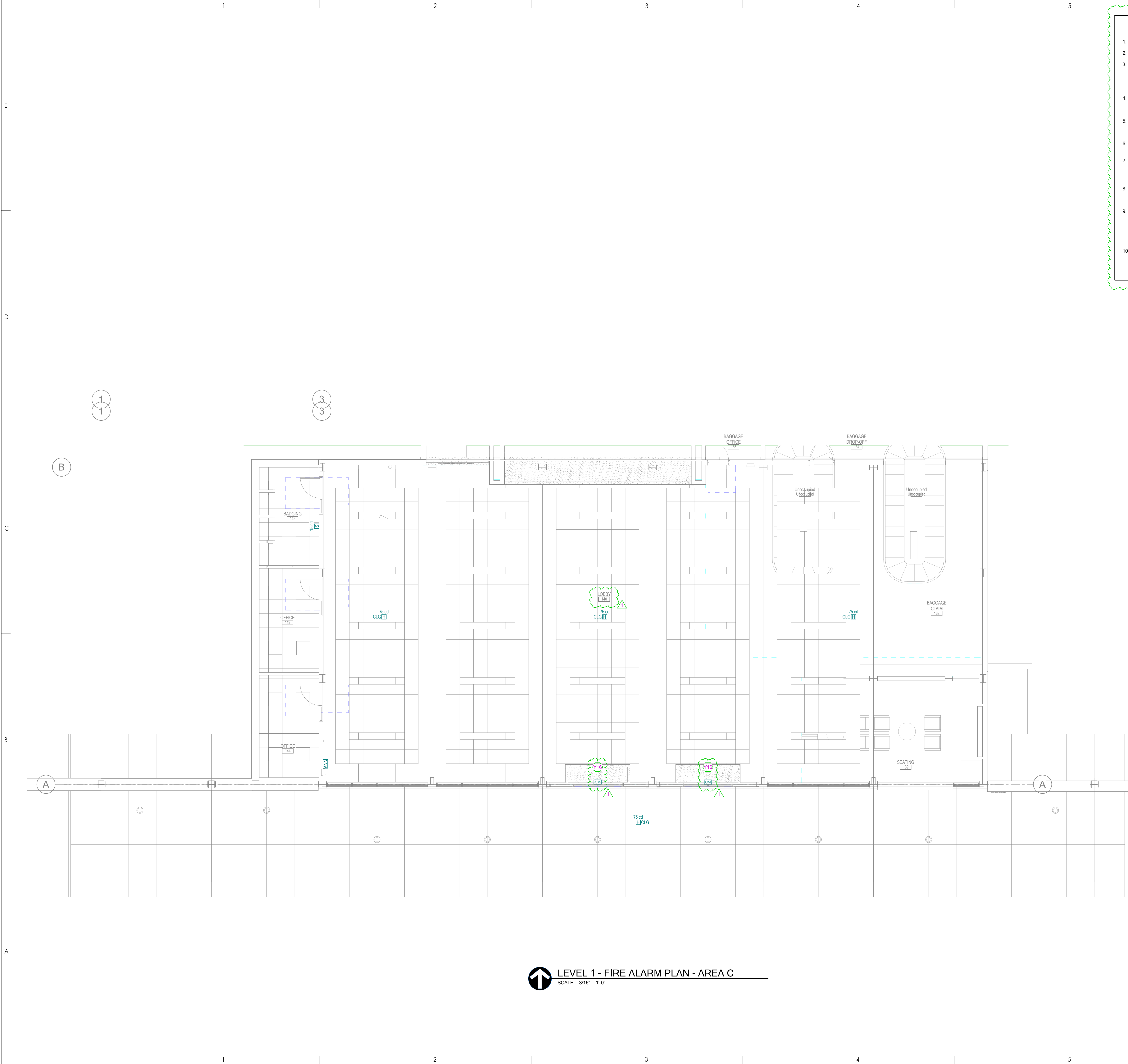
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 **LEVEL 1 - FIRE ALARM PLAN - AREA B**  
SCALE = 3/16" = 1'-0"

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FIRE ALARM GENERAL NOTES

1. PROVIDE A NEW FIRE ALARM SYSTEM.
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PLAN - AREA C  
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LEVEL 1 - FIRE ALARM PLAN - AREA C  
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