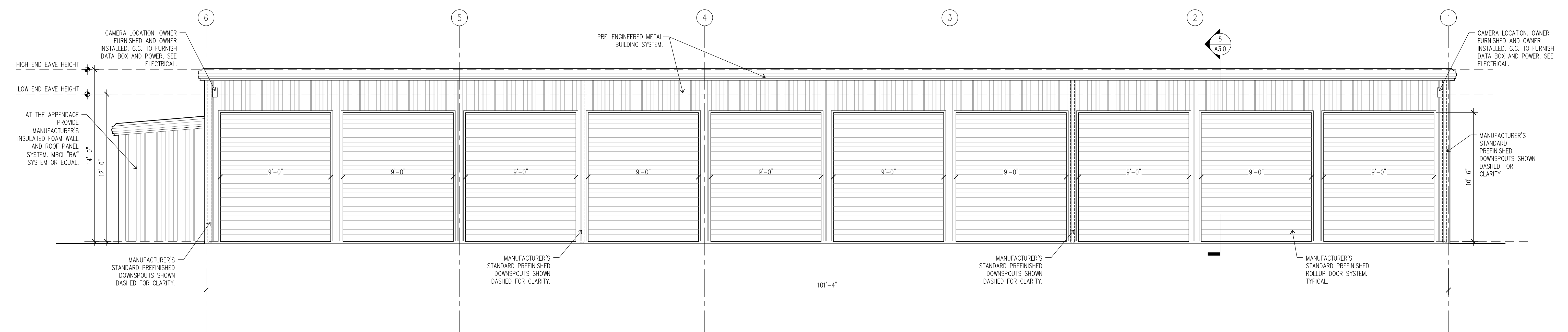
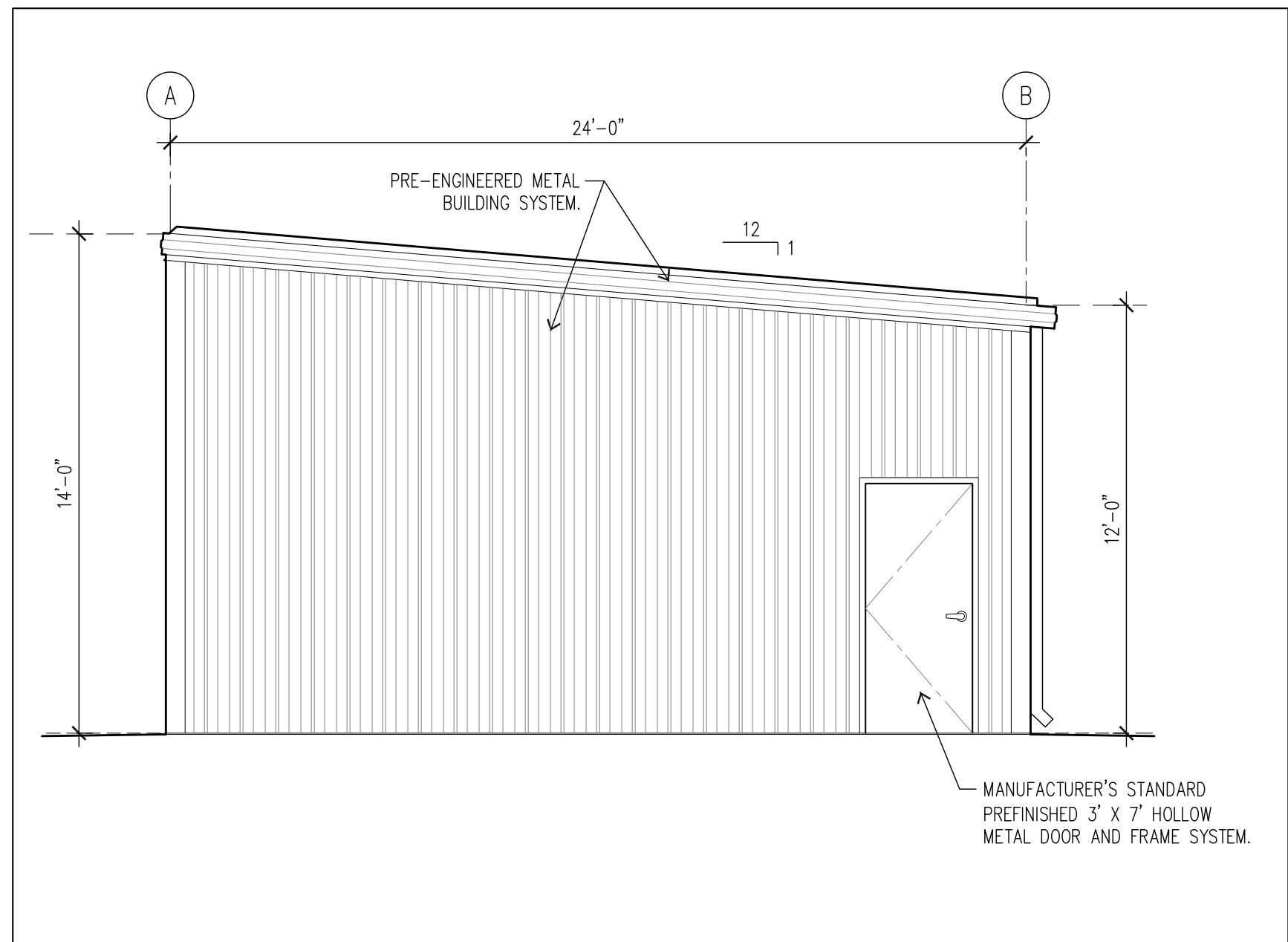


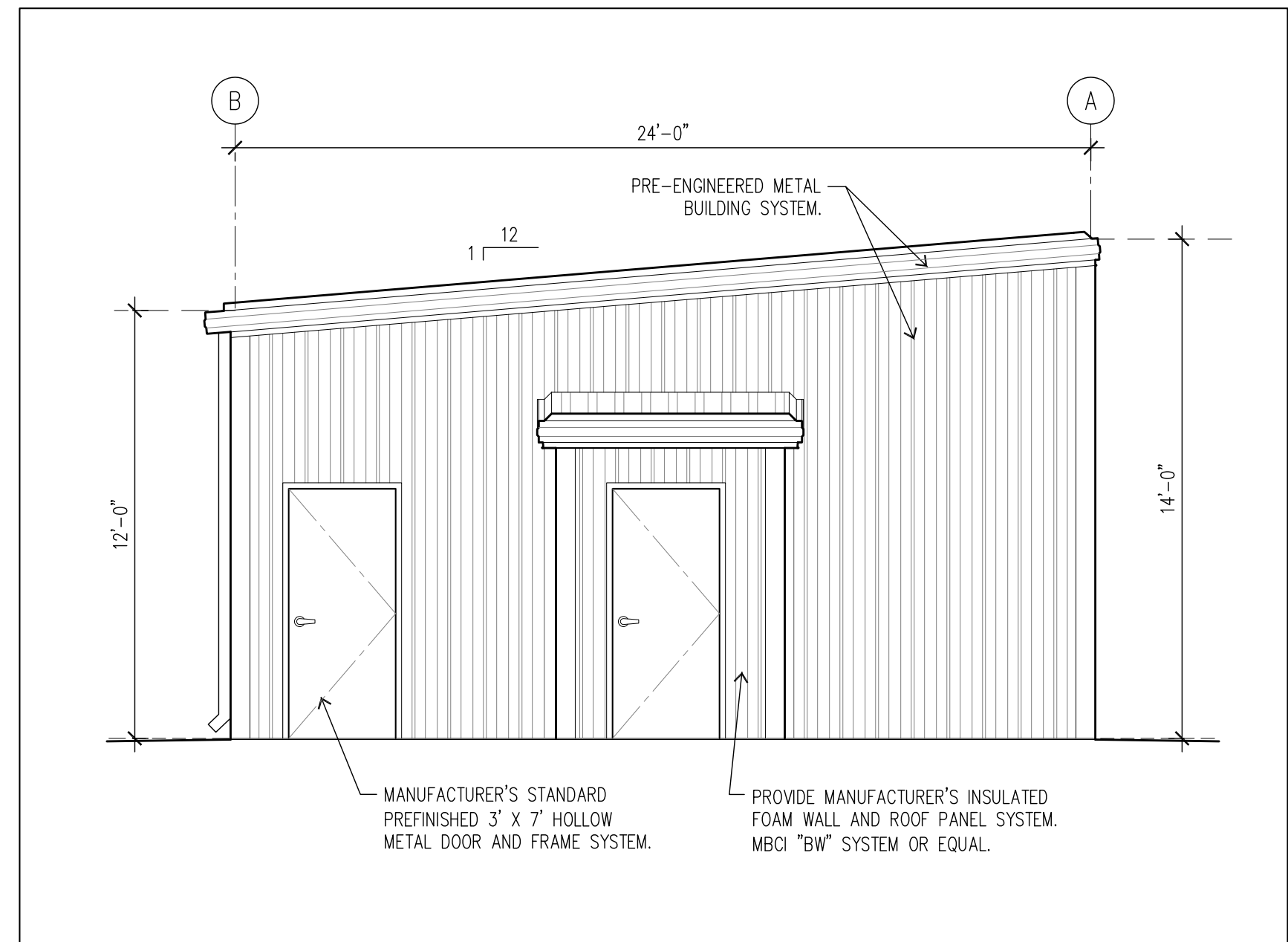
1 A3.0 East Exterior Elevation



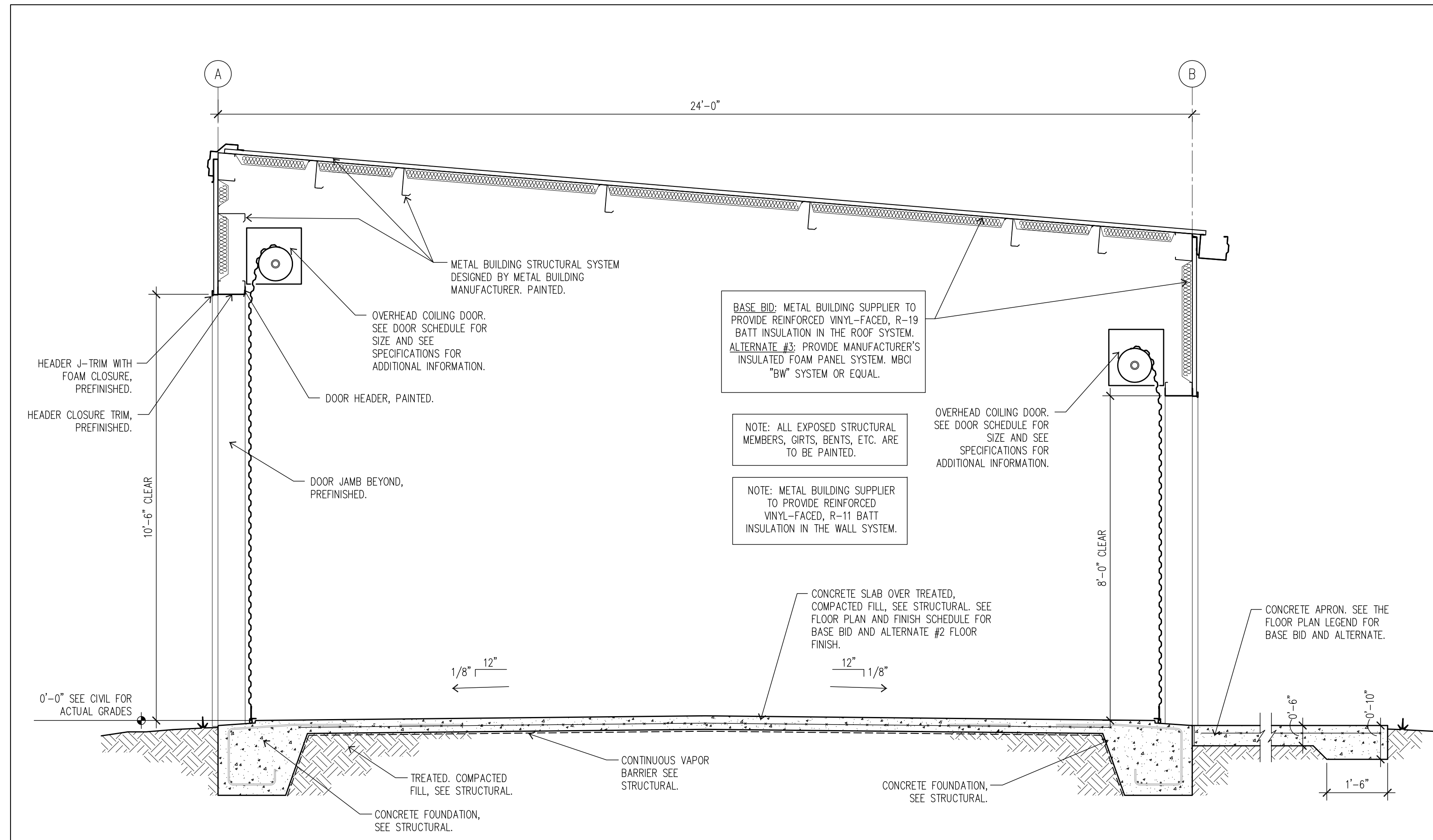
2 A3.0 West Exterior Elevation



3 A3.0 South Exterior Elevation



4 A3.0 North Exterior Elevation



5 A3.0 Section



GENERAL PROJECT AND DEMO NOTES

- NEW AND EXISTING CIRCUIT DESIGNATIONS MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. FIELD VERIFY WHERE REQUIRED AND INDICATE ACTUAL CIRCUIT USED ON THE AS-BUILT DRAWINGS.
- REMOVE ELECTRICAL EQUIPMENT AND INSTALLATIONS INDICATED TO BE DEMOLISHED IN THEIR ENTIRETY.
- ABANDONED WORK: CUT OR REMOVE RACEWAY SLEEVES AND WIRING INDICATED TO BE ABANDONED IN PLACE BELOW THE SURFACE OF ADJACENT CONSTRUCTION. CAP RACEWAYS AND PATCH SURFACE.
- THE CONTRACTOR SHALL INCLUDE WITHIN THE BID ALL REQUIRED OFF HOUR, OVERTIME, AND NON-BUSINESS HOUR WORK AS REQUIRED TO PERFORM THE DEMOLITION WITHOUT DISRUPTING THE BUILDING TENANTS NORMAL BUSINESS OPERATIONS.
- ALL DEMOLISHED EQUIPMENT AND WIRING SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S SOLE OPTION.

ELECTRICAL SPECIFICATIONS

- BIDDERS ARE TO THOROUGHLY EXAMINE ALL CONTRACT DOCUMENTS, DRAWINGS, AND DETAILS, AND VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK BEFORE SUBMITTING THEIR PROPOSAL BID. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. ANY DISCREPANCY OR IRREGULARITY THAT A SUCCESSFUL CONTRACTOR MAY HAVE FOUND SHALL BE CLARIFIED PRIOR TO CONTRACT FINALIZATION. LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED. THE CONTRACTOR IS EXPECTED TO PERFORM ALL WORK AND PROVIDE ALL MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION AS INTENDED BY THIS DESIGN AND THE SCOPE OF THIS PROJECT.
- COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK DISCONNECTION, RECONNECTION, ETC. AND ARE NOT INDICATED ON THE ELECTRICAL DRAWINGS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES.
- PROTECT EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS NECESSARY TO REMAIN. IF EXISTING EQUIPMENT IS DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
- THE CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH THE OWNER PRIOR TO INSTALLATION. THEY SHALL NOT BE CHARGED FOR MINOR LOCATION CHANGES PRIOR TO INSTALLATIONS. LOCATIONS ARE APPROXIMATE. (DO NOT SCALE DRAWINGS).
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL ELECTRICAL LAYOUTS FOR BIDDING DRAWINGS AND CONFIRM SPACE ALLOCATIONS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES FOR ELECTRICAL CONDUIT ROUTING AND EQUIPMENT PLACEMENT. AVOID INTERFERENCE WITH ARCHITECTURAL AND STRUCTURAL FEATURES SUCH AS BEAMS, FOOTINGS, WINDOWS, ETC. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY CONFLICTS.
- THE ELECTRICAL CONTRACTOR, AND THE GENERAL CONTRACTOR PROJECT MANAGER SHALL INSPECT AND REVIEW THE CONDITIONS, AND SHALL COORDINATE THEIR WORK SO AS TO PROVIDE ADEQUATE SPACE ALLOWANCE ABOVE CEILING FOR ALL TRADES.
- THE PLANS SHOW THE LOCATION OF ALL FIXTURES AND EQUIPMENT AND ARE INTENDED TO DEPICT THE GENERAL INTENT OF THE WORK IN SCOPE, LAYOUT AND QUALITY OF WORKMANSHIP. THEY ARE NOT INTENDED TO SHOW IN MINUTE DETAIL EVERY AND ALL ACCESSORIES INTENDED FOR THE PURPOSE OF EXECUTION OF THE WORK, BUT SHALL BE UNDERSTOOD THAT SUCH DETAILS WILL BE PART OF THIS WORK.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM INCLUDING CONTROLS AND CONNECTIONS TO NEW SERVICES, SUPPORTS, AND HARDWARE REQUIRED FOR THE SATISFACTORY OPERATION OF THE SYSTEM, WHETHER SPECIFICALLY SHOWN OR NOT ON THE DRAWINGS.
- THE WORK SUBJECT TO THESE SPECIFICATIONS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE INSTALLATION SHALL ALSO COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF LOCAL AND STATE LAWS AND ORDINANCES.
- ALL ELECTRICAL EQUIPMENT SHALL BE SPECIFICATION GRADE AND SHALL HAVE THE PROPER UL LABEL.
- ACCEPTABLE PANELBOARD MANUFACTURERS INCLUDE GENERAL ELECTRIC, SQUARE D, SIEMENS AND CUTLER-HAMMER UNLESS OTHERWISE INDICATED. PROTECTIVE DEVICES SHALL BE MOUNTED WITH TOP OF CABINET OR ENCLOSURE 6'-6" ABOVE FINISHED FLOOR. SHALL BE PROPERLY ALIGNED, AND SHALL BE ADEQUATELY SUPPORTED INDEPENDENTLY OF THE CONNECTING RACEWAYS. ANY AND ALL STEEL FRAMING, SHAPES, ETC. NECESSARY FOR THE SUPPORT OF THE EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR WHERE THE BUILDING STRUCTURE IS NOT SUITABLE FOR MOUNTING THE EQUIPMENT DIRECTLY THEREON. UNLESS OTHERWISE INDICATED, ALL BRANCH CIRCUIT PROTECTIVE DEVICE ENCLOSURES SHALL BE NEMA TYPE 1, GENERAL PURPOSE TYPE. CIRCUIT PROTECTIVE DEVICES INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL HAVE WEATHERPROOF ENCLOSURES, NEMA TYPE "3R" OR TYPE "4".
- ALL SAFETY SWITCHES SHALL BE GENERAL DUTY TYPE. SWITCH MECHANISM SHALL BE QUICK-MAKE, QUICK-BREAK. COVERS SHALL BE INTERLOCKED WITH MECHANISM TO PREVENT OPENING UNLESS SWITCH IS IN THE OFF POSITION. ALL ENCLOSURES SHALL BE PRIMED AND FINISHED TO RESIST RUSTING AND CORROSION. SWITCHES SHALL BE SQUARE-D, SIEMENS, GENERAL ELECTRIC OR CUTLER-HAMMER.
- CIRCUIT BREAKERS FOR MOUNTING IN HOUSE PANELBOARD SHALL BE BOLT-ON TYPE, MOLDED PLASTIC CASE, AIR CIRCUIT BREAKER TYPE. BREAKERS SHALL HAVE THERMAL MAGNETIC TRIP UNITS AND MULTI-POLE BREAKERS SHALL HAVE A COMMON TRIP BAR SO THAT THE TRIPPING OF ONE POLE WILL AUTOMATICALLY TRIP ALL POLES OF THE BREAKER. BREAKERS SHALL BE TRIP FREE AND TRIP INDICATING AND SHALL HAVE QUICK-MAKE, QUICK-BREAK CONTACTS.
- UPON COMPLETION OF WORK CORRECT ALL PANELBOARD CIRCUIT DIRECTORY CARDS TO REFLECT AS-BUILT CONDITIONS. PANELBOARD DIRECTORIES SHALL BE UPDATED WITH TYPEWRITTEN ACCURATE AND CURRENT INFORMATION BY THE CONTRACTOR AT THE END OF CONSTRUCTION. DIRECTORIES SHALL REFLECT RECORD CONDITIONS AND INCLUDE CIRCUIT NUMBER, TYPE AND LOCATION OF LOAD. A SET OF AS-BUILT DRAWINGS SHALL ALSO BE PREPARED AND TURNED OVER TO THE OWNER.
- UNLESS SPECIFICALLY NOTED ON DRAWINGS, RACEWAYS SHALL COMPLY WITH THE FOLLOWING: RACEWAYS EXPOSED TO THE WEATHER OR IN DAMP LOCATIONS SHALL BE GALVANIZED RIGID STEEL WITH THREADED CONNECTIONS. FULL SIZE MC CABLE IS ACCEPTABLE IN CONCEALED DRY LOCATIONS. HOMERUNS TO PANELS AND EXPOSED CONDUIT RUNS SHALL BE IN EMT CONDUIT. RACEWAYS RUN BELOW GRADE SHALL BE PVC SCHEDULE 40. ELBOWS AND RISERS SHALL BE GRC.
- ALL GALVANIZED RIGID CONDUIT INSTALLED BELOW GRADE SHALL BE COATED WITH AN ASPHALTUM PAINT OR APPROVED TAPE WRAPPING.
- ALL METALLIC RACEWAYS SHALL BE MECHANICALLY AND ELECTRICALLY SECURE AT ALL JOINTS AND AT ALL BOXES, CABINETS, FITTINGS, AND EQUIPMENT.
- ALL RACEWAYS SHALL BE SECURELY SUPPORTED FROM THE BUILDING STRUCTURE.
- ALL RACEWAYS SHALL BE PROVIDED WITH AN EQUIPMENT GROUND CONDUCTOR.
- ALL BOXES SHALL BE RIGIDLY MOUNTED AND SHALL BE EQUIPPED WITH SUITABLE SCREW FASTENED COVERS. OPEN KNOCK-OUTS OR HOLES IN BOXES SHALL BE PLUGGED WITH A SUITABLE BLANKING DEVICE.
- UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE COPPER NO. 12 AWG. MINIMUM OR SIZE AS SHOWN ON DRAWINGS. CONDUCTORS SHALL HAVE TYPE "THHN/THWN-2" INSULATION.
- SPLICES, TAPS AND ATTACHMENT FITTINGS AND LUGS SHALL BE ELECTRICALLY AND MECHANICALLY SECURE AND SOLDERLESS FOR CONDUCTORS SIZES NO. 8 AWG AND LARGER. THERE SHALL BE PLENTY OF SLACK CABLE IN BOXES, OUTLETS AND CABINETS TO INSURE THAT THERE IS NO BINDING AT THE BUSHINGS. ALL LUGS SHALL BE OF THE CORRECT SIZE FOR THE CONDUCTORS INSTALLED AND IN NO CASE SHALL STRANDS BE CUT FROM A CONDUCTOR IN ORDER TO FIT THE CONDUCTOR INTO A LUG. TAPING OF JOINTS SHALL BE WITH VINYL PLASTIC ELECTRICAL TAPE TO INSURE INSULATION STRENGTH EQUAL TO THAT OF THE CONDUCTORS JOINED.
- THE INTERIOR ELECTRICAL SYSTEMS SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY THE NEC AND AS SPECIFIED HEREINAFTER.

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Edmund J. Winkler, P.E.
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SYMBOLS LIST AND
DETAILS

100% CONSTRUCTION SET

DATE OF TAMA REQUEST NO. 21-0675

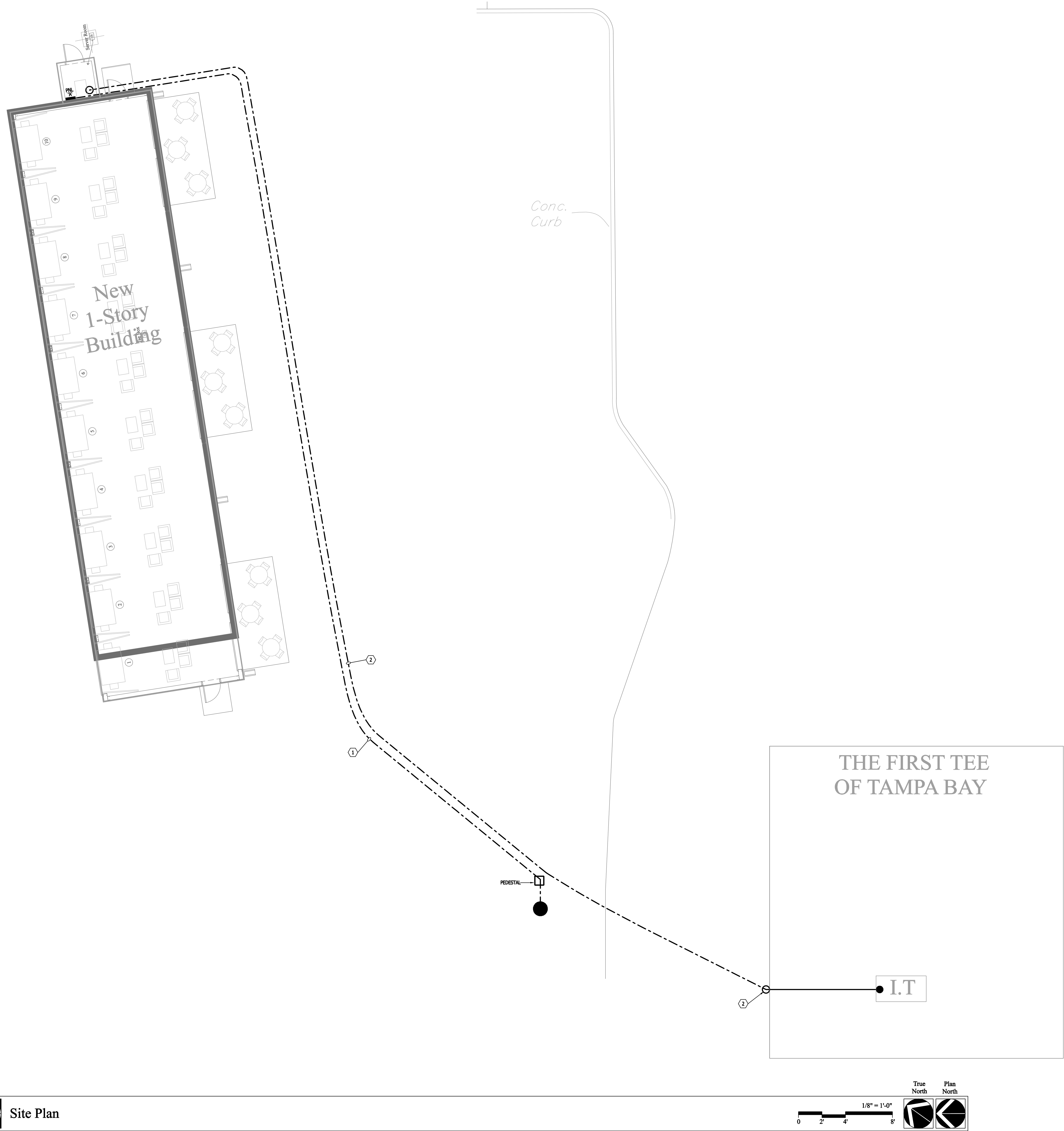
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12/07/2021

NO.	DATE	REVISION
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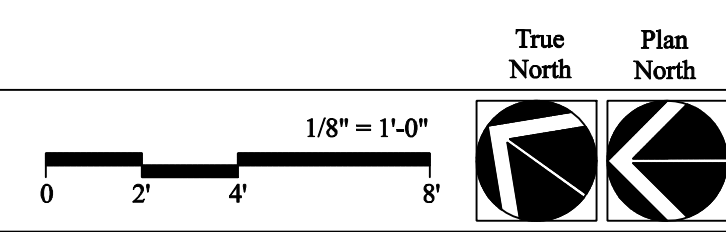
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- SITE GENERAL NOTES**
- THE CONTRACTOR SHALL VERIFY, CONFIRM, AND COORDINATE ALL POWER, TELEPHONE, AND CABLE TV SERVICE REQUIREMENTS WITH THE APPROPRIATE UTILITY PRIOR TO SUBMITTING A BID.
 - THE ELECTRICAL CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS AND BOND TO ALL EQUIPMENT AND DEVICES. BONDING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ARTICLE 250 OF THE N.E.C. GROUND CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TABLE 250-122 OF THE N.E.C.
 - WHERE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE, CORRESPONDING EQUIPMENT GROUNDING CONDUCTORS SHALL BE INCREASED IN SIZE PROPORTIONATELY ACCORDING TO CIRCULAR MIL AREA OF THE UNGROUNDED CONDUCTORS.

- SITE KEYED NOTES**
- ELECTRICAL CONTRACTOR SHALL PROVIDE SERVICE ENTRANCE CONDUCTORS AND CONDUIT FROM SECONDARIES ON TRANSFORMER TO NEW PANEL 'A' IN ELECTRICAL ROOM. SEE RISER DIAGRAM ON SHEET E0.1 FOR SERVICE ENTRANCE SIZING REQUIREMENTS AND STIPULATIONS.
 - PROVIDE 2" PVC CONDUIT AND 6 STRAND FIBER OPTIC CABLE FOR INCOMING DATA SERVICE TO BUILDING. RUN CONDUIT UP AND PENETRATE CEILING FOR CONNECTION IN FIRST TEE IT CLOSET. PROVIDE FIBER OPTIC TO ETHERNET CONVERTER AND LIU PATCH PANEL AT EACH END.
 - CONTRACTOR TO COORDINATE INSTALLATION, REQUIREMENTS AND LOCATION OF PEDESTAL WITH UTILITY COMPANY.



1
E1.0 Site Plan



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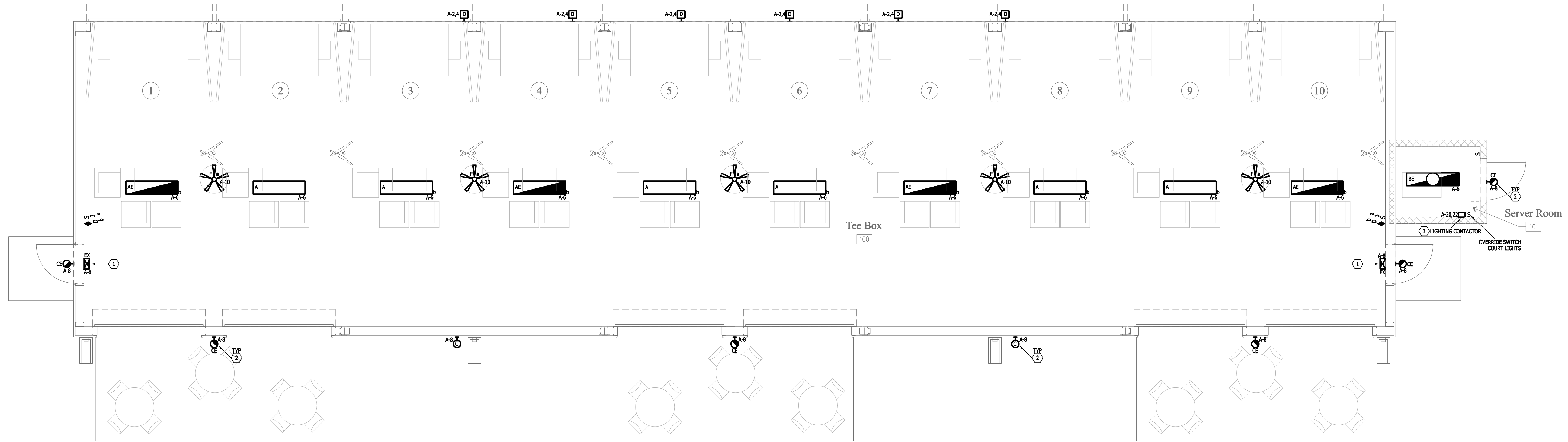
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CITY OF TAMPA PROJECT NO. 21-0675

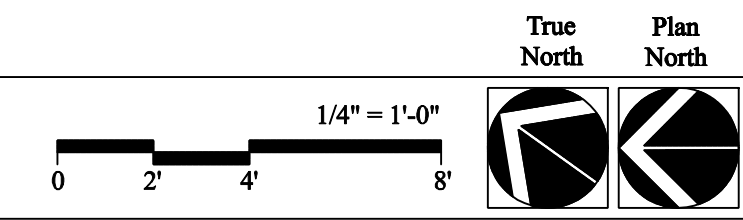
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Review 12/07/2021

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E1.1 Lighting Plan



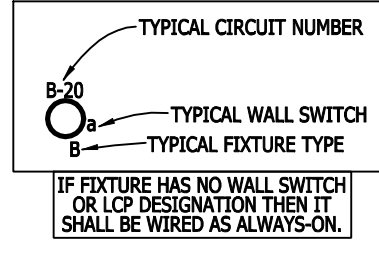
LIGHTING GENERAL NOTES

- A. HALF SHADED FIXTURES HAVE BATTERY EMERGENCY BACKUP FUNCTION. WHEN NORMAL POWER FAILS THESE FIXTURES SHALL BE POWERED BY ONBOARD BATTERY POWER.
- B. CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT GROUNDING WIRE IN ALL CONDUITS AND SHALL BOND THE GROUND WIRE TO ALL DEVICES AND ELECTRICALLY WIRED EQUIPMENT. BONDING SHALL BE INSTALLED IN ACCORDANCE WITH TABLE 250-122 OF THE NEC.
- C. PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR ALL 120V SINGLE POLE CIRCUITS PER NEC ARTICLE 210-4. TYPICAL THROUGHOUT BREAKER HANDLE TIES ARE UNACCEPTABLE.
- D. ANY 20A BRANCH CIRCUITS EXCEEDING A WIRE LENGTH OF 150 FT SHALL USE #10 AWG CONDUCTORS REGARDLESS OF WHAT PANEL SCHEDULES SHOW.
- E. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF SHOP DRAWINGS FOR ALL OF THE LIGHTING CONTROLS SHOWN FOR THIS PROJECT AS PART OF THE SUBMITTAL PACKAGE. THIS SHALL ALSO INCLUDE VERIFICATION OF COVERAGE IN ALL AREAS UTILIZING OCCUPANCY SENSORS.
- F. EXIT SIGNS SHALL BE INSTALLED ABOVE THE DOOR ON HEADER, TO WALL, OR CEILING WHERE SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LINE OF SIGHT FOR THE INSTALLATION OF ALL EXIT SIGNS WHICH SHALL INCLUDE BUT SHALL NOT BE LIMITED TO AVOIDING OBSTRUCTIONS SUCH AS HEADERS, BUILDING ELEMENTS, LIGHT FIXTURES, AND DIFFERENT HEIGHTS OF CEILINGS, ETC..
- G. WHERE LIGHT FIXTURES ARE RECESSED IN RATED CEILINGS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE RATING OF THE CEILING ASSEMBLY SURROUNDING THE LIGHT FIXTURE. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL PLANS AND DETAILS PRIOR TO INSTALLATION AND/OR BIDDING.
- H. CONTRACTOR TO COORDINATE ALL DIMMER SWITCHES AND LIGHTING CONTROL PANEL RELAYS WITH THE FIXTURES THEY ARE DIMMING TO VERIFY COMPATIBILITY. PROVIDE ALL LOW VOLTAGE WIRING AND ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM.

LIGHTING KEYED NOTES

- 1. EXIT LIGHTING SHALL BE WIRED AHEAD OF ALL SWITCHING.
- 2. OUTDOOR LIGHT CONTROL BY FIXTURE PHOTOCELL. TYPICAL.
- 3. LIGHTING CONTACTOR - PROVIDE A SQUARE D LIGHTING CONTACTOR '8903L060V08' FOR CONTROL OF ALL FIELD LIGHTING. CIRCUIT AS LABELED.

LIGHTING KEY



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Examined by: [Signature]
 P.E. License No. 12345
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Lighting Plan

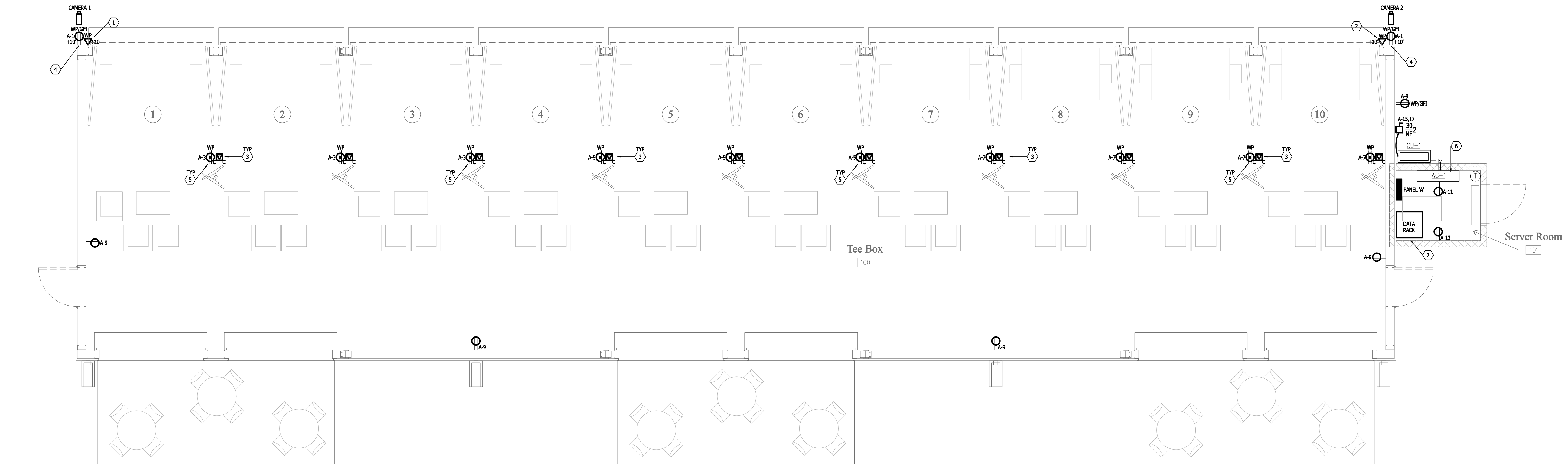
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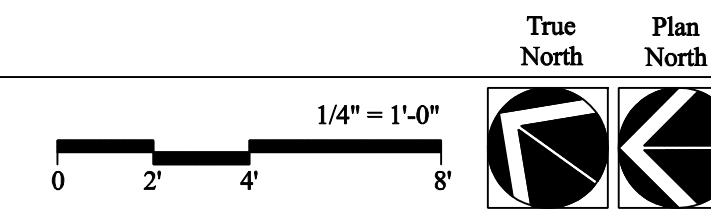
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1
E1.2 Power Plan



POWER/SYSTEMS GENERAL NOTES

- A. CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT GROUNDING WIRE IN ALL CONDUITS AND SHALL BOND THE GROUND WIRE TO ALL DEVICES AND ELECTRICALLY WIRED EQUIPMENT. BONDING SHALL BE INSTALLED IN ACCORDANCE WITH TABLE 250-122 OF THE NEC.
- B. PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR ALL 120V SINGLE POLE CIRCUITS PER NEC ARTICLE 210.4. TYPICAL THROUGHOUT. BREAKER HANDLE TIES ARE UNACCEPTABLE.
- C. ALL DEVICE BOX LOCATIONS SHALL BE FIELD VERIFIED BY THE ARCHITECT/OWNER AND/OR ENGINEER PRIOR TO INSTALLATION OF DRYWALL OR MILLWORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT WHEN ALL DEVICE BOX ROUGH-IN LOCATIONS HAVE BEEN COMPLETED FOR A VISUAL INSPECTION OF ALL LOCATIONS.
- D. EQUIPMENT LOCATIONS ARE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED FOR ACCURACY. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS PRIOR TO ROUGH-IN.
- E. ALL RECEPTACLES WITHIN 6' OF A WATER SOURCE SHALL HAVE GFCI PROTECTION WHETHER INDICATED ON PLANS OR NOT.
- F. ANY 20A BRANCH CIRCUITS EXCEEDING A WIRE LENGTH OF 150 FT SHALL USE #10 AWG CONDUCTORS REGARDLESS OF WHAT PANEL SCHEDULES SHOW.

DATA - CAMERA - DEVICES

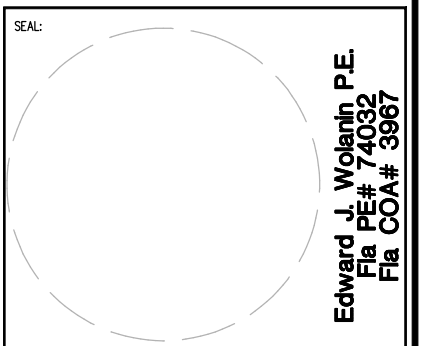
- ▶ TYPICAL TELE / DATA OUTLET MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE. PROVIDE A 4 SQUARE BOX WITH A SINGLE GANG MUD RING AND A MINIMUM 1/2" CONDUIT STUBBED ABOVE CEILING WITH AN END BUSHING. PROVIDE ONE CAT 6 WIRING RUN PER PORT TO DATA RACK IN IT ROOM AND TERMINATE INTO PATCH PANEL (SEE SHEET ED.1) FOR FACEPLATE AND WIRING CONFIGURATION. THE NUMBER NEXT TO THE SYMBOL INDICATES THE NUMBER OF JACKS. IF NO LABEL IS PRESENT THEN IT SHALL BE TWO DATA JACKS. PROVIDE LABELING ON FACEPLATE AS REQUIRED. TEST, TERMINATE, AND LABEL CABLE AT BOTH ENDS. COORDINATE WITH OWNER FOR FINAL REQUIREMENTS.
- Ⓜ TYPICAL DATA OUTLET / CEILING MOUNTED IN OUTDOOR RATED BOX. RUN A 3/4" CONDUIT TO DATA RACK AND PROVIDE ONE CAT 6 WIRING RUN PER PORT TO DATA RACK IN SERVER ROOM AND TERMINATE INTO PATCH PANEL (SEE SHEET ED.1) FOR FACEPLATE AND WIRING CONFIGURATION. THE NUMBER NEXT TO THE SYMBOL INDICATES THE NUMBER OF JACKS. IF NO LABEL IS PRESENT THEN IT SHALL BE TWO DATA JACKS. PROVIDE LABELING ON FACEPLATE AS REQUIRED. TEST, TERMINATE, AND LABEL CABLE AT BOTH ENDS. COORDINATE WITH OWNER FOR FINAL REQUIREMENTS.
- ☐ CAMERA - PROVIDE AND INSTALLED BY TOPTRACER.

RECEPTACLE SYMBOL LIST

	DUPLEX RECEPTACLE, 120V, 20A NEMA 5-20R - PROVIDE OUTDOOR RATED BOX WITH IN USE COVER. MOUNTED FACE DOWN ON CEILING WITHIN 3FT OF MONITOR LOCATION. CIRCUIT AS LABEL.
	DUPLEX RECEPTACLE, 120V, 20A NEMA 5-20R

POWER/SYSTEMS KEYED NOTES

1. DATA JACK CAMERA 1 - PROVIDE 1 DATA JACK IN OUTDOOR RATED BOX WITHIN 6FT OF CAMERA LOCATION. DATA CABLE TO BE TERMINATED T568B. LABEL AS C1. SEE DETAIL SHEET ED.1.
2. DATA JACK CAMERA 2 - PROVIDE 1 DATA JACK IN OUTDOOR RATED BOX WITHIN 6 FT OF CAMERA LOCATION. DATA CABLE TO BE TERMINATED T568B. LABEL AS C2. SEE DETAIL SHEET ED.1.
3. MONITOR DATA JACK - PROVIDE 2 DATA JACK WITHIN 3 FT OF MONITOR LOCATION. DATA CABLE TO BE TERMINATED T568B. SEE DETAIL SHEET ED.1. TYPICAL.
4. PROVIDE DUPLEX RECEPTACLE IN OUTDOOR RATED BOX WITHIN 6FT CAMERA WITH IN-USE COVER.
5. PROVIDE DUPLEX RECEPTACLE IN OUTDOOR RATED BOX WITHIN 3FT OF MONITOR LOCATION WITH IN-USE COVER. TYPICAL.
6. SEE MINI SPLIT DETAIL IN SHEET E-0.1.
7. DATA RACK - PROVIDE WALL MOUNTED DATA RACK. CONTRACTOR SHALL PROVIDE PATCH PANELS WITH ENOUGH PORT SPACES TO TERMINATE ALL DATA AND PHONE PORTS SERVED BY THIS RACK PLUS A MINIMUM OF 20% SPARE PORTS. SEE IT DATA RACK DETAIL ON SHEET ED.1 FOR ADDITIONAL INFORMATION.
8. ALL DATA CABLES SHOULD BE TERMINATED, LABELED AND TESTED. A FLUKE CERTIFICATION IS REQUIRED ON ALL CABLES. SEE WIRE LEGEND DETAIL ON SHEET ED.1.



Power Plan

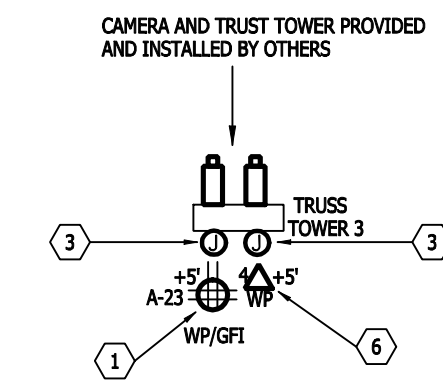
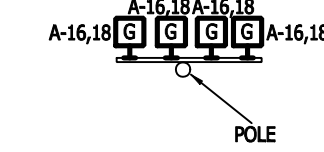
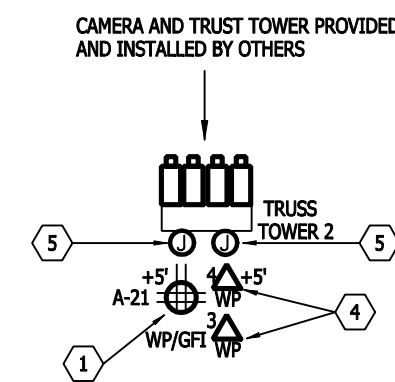
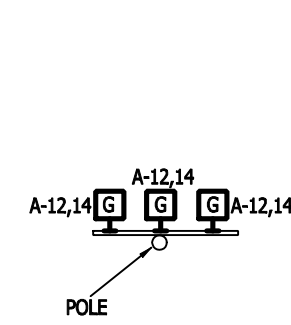
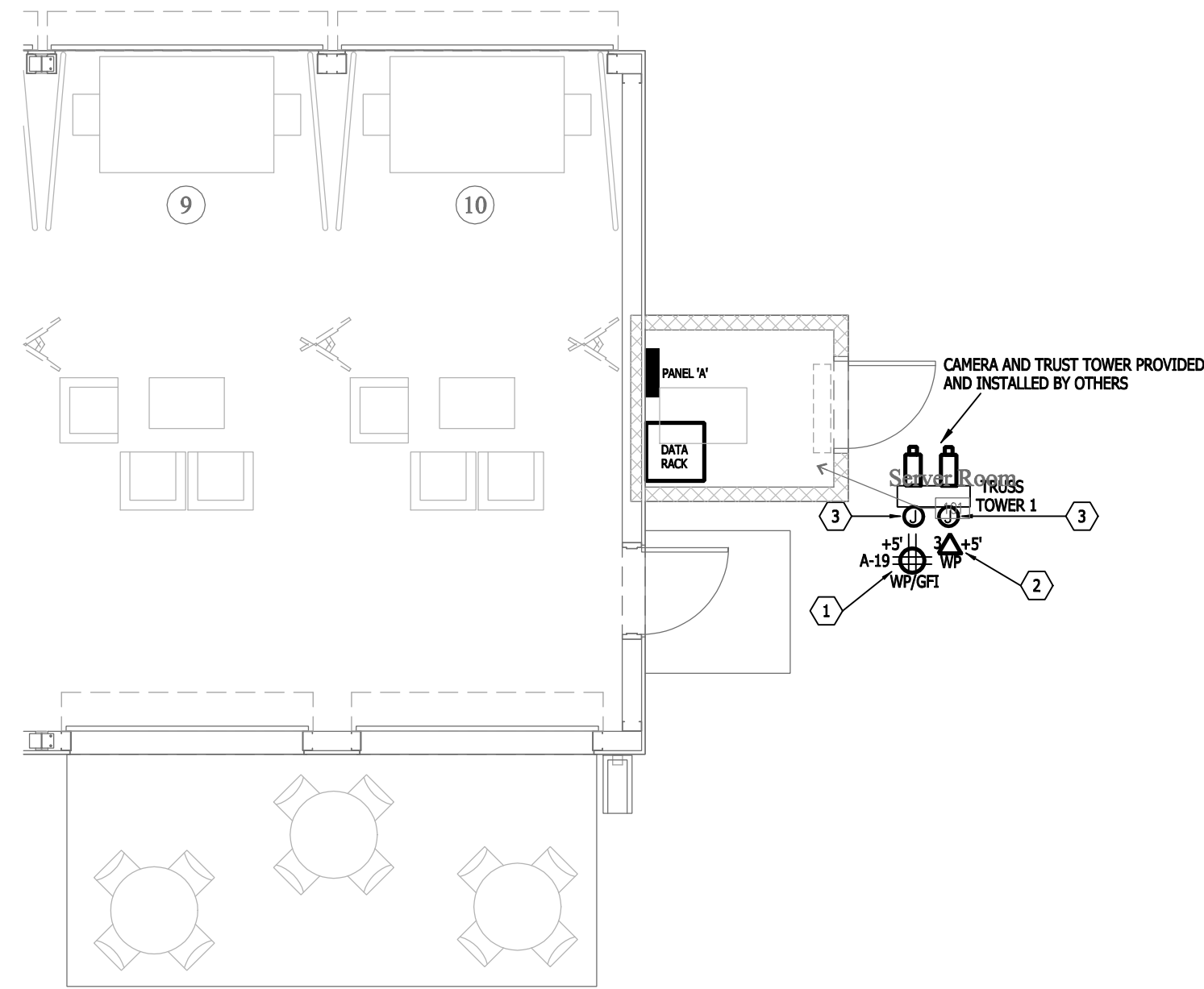
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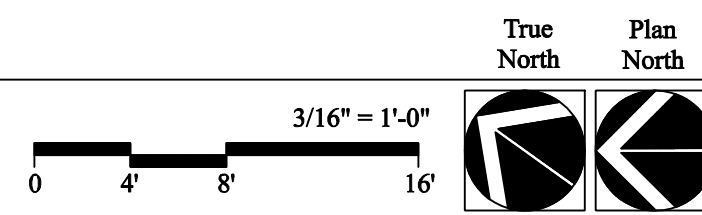
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E1.2 POWER PLAN PART 2



POWER/SYSTEMS GENERAL NOTES

- CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT GROUNDING WIRE IN ALL CONDUITS AND SHALL BOND THE GROUND WIRE TO ALL DEVICES AND ELECTRICALLY WIRED EQUIPMENT. BONDING SHALL BE INSTALLED IN ACCORDANCE WITH TABLE 250-122 OF THE NEC.
- PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR ALL 120V SINGLE POLE CIRCUITS PER NEC ARTICLE 210.4. TYPICAL THROUGHOUT. BREAKER HANDLE TIES ARE UNACCEPTABLE.
- ALL DEVICE BOX LOCATIONS SHALL BE FIELD VERIFIED BY THE ARCHITECT/OWNER AND/OR ENGINEER PRIOR TO INSTALLATION OF DRYWALL OR MILLWORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT WHEN ALL DEVICE BOX ROUGH-IN LOCATIONS HAVE BEEN COMPLETED FOR A VISUAL INSPECTION OF ALL LOCATIONS.
- EQUIPMENT LOCATIONS ARE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED FOR ACCURACY. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS PRIOR TO ROUGH-IN.
- ALL RECEPTACLES WITHIN 6' OF A WATER SOURCE SHALL HAVE GFCI PROTECTION WHETHER INDICATED ON PLANS OR NOT.
- ANY 20A BRANCH CIRCUITS EXCEEDING A WIRE LENGTH OF 150 FT SHALL USE #10 AWG CONDUCTORS REGARDLESS OF WHAT PANEL SCHEDULES SHOW.

LIGHTING GENERAL NOTES

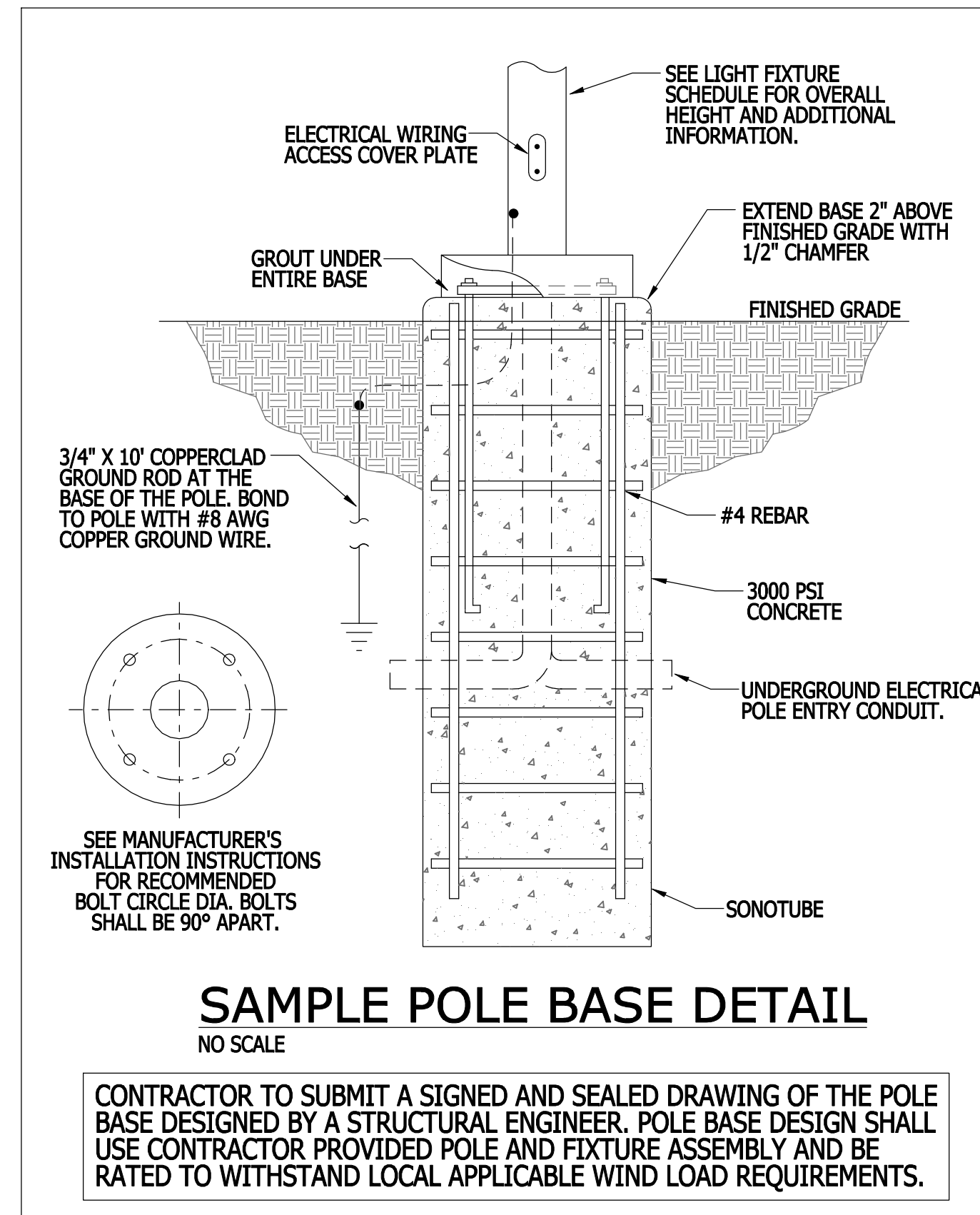
- HALF SHADED FIXTURES HAVE BATTERY EMERGENCY BACKUP FUNCTION. WHEN NORMAL POWER FAILS THESE FIXTURES SHALL BE POWERED BY ONBOARD BATTERY POWER.
- CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT GROUNDING WIRE IN ALL CONDUITS AND SHALL BOND THE GROUND WIRE TO ALL DEVICES AND ELECTRICALLY WIRED EQUIPMENT. BONDING SHALL BE INSTALLED IN ACCORDANCE WITH TABLE 250-122 OF THE NEC.
- PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR ALL 120V SINGLE POLE CIRCUITS PER NEC ARTICLE 210.4. TYPICAL THROUGHOUT. BREAKER HANDLE TIES ARE UNACCEPTABLE.
- ANY 20A BRANCH CIRCUITS EXCEEDING A WIRE LENGTH OF 150 FT SHALL USE #10 AWG CONDUCTORS REGARDLESS OF WHAT PANEL SCHEDULES SHOW.
- CONTRACTOR SHALL PROVIDE A COMPLETE SET OF SHOP DRAWINGS FOR ALL OF THE LIGHTING CONTROLS SHOWN FOR THIS PROJECT AS PART OF THE SUBMITTAL PACKAGE. THIS SHALL ALSO INCLUDE VERIFICATION OF COVERAGE IN ALL AREAS UTILIZING OCCUPANCY SENSORS.
- EXIT SIGNS SHALL BE INSTALLED ABOVE THE DOOR ON HEADER, TO WALL, OR CEILING WHERE SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LINE OF SIGHT FOR THE INSTALLATION OF ALL EXIT SIGNS WHICH SHALL INCLUDE BUT SHALL NOT BE LIMITED TO AVOIDING OBSTRUCTIONS SUCH AS HEADERS, BUILDING ELEMENTS, LIGHT FIXTURES, AND DIFFERENT HEIGHTS OF CEILINGS, ETC..
- WHERE LIGHT FIXTURES ARE RECESSED IN RATED CEILINGS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE RATING OF THE CEILING ASSEMBLY SURROUNDING THE LIGHT FIXTURE. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL PLANS AND DETAILS PRIOR TO INSTALLATION AND/OR BIDDING.
- CONTRACTOR TO COORDINATE ALL DIMMER SWITCHES AND LIGHTING CONTROL PANEL RELAYS WITH THE FIXTURES THEY ARE DIMMING TO VERIFY COMPATIBILITY. PROVIDE ALL LOW VOLTAGE WIRING AND ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM.

DATA - CAMERA - DEVICES

- TYPICAL DATA OUTLET MOUNTED IN OUTDOOR RATED BOX, MOUNTED WITHIN 6' OF CAMERA LOCATION. RUN A 3/4" CONDUIT TO DATA RACK AND PROVIDE ONE CAT 6 WIRING RUN PER PORT TO DATA RACK IN SERVER ROOM AND TERMINATE INTO PATCH PANEL. SEE SHEET E-200 FOR FACIPLATE AND WIRING CONFIGURATION. THE NUMBER NEXT TO THE SYMBOL INDICATES THE NUMBER OF JACKS. IF NO LABEL IS PRESENT THEN IT SHALL BE TWO DATA JACKS. PROVIDE LABELING ON FACIPLATE AS REQUIRED. TEST, TERMINATE, AND LABEL CABLE AT BOTH ENDS. COORDINATE WITH OWNER FOR FINAL REQUIREMENTS.
- CAMERA - PROVIDE AND INSTALLED BY TOPTRACER.

POWER/SYSTEMS KEYED NOTES

- NEW QUADPLEX RECEPTACLE - INSTALL RECEPTACLES IN OUTDOOR RATED BOX WITH JUMPO IN USE COVER WITHIN 6 FT OF CAMERA LOCATION. CIRCUIT AS LABEL.
- 3 DATA JACK - INSTALL 3 DATA JACK IN OUTDOOR RATED BOX WITH IN USE COVER WITHIN 6 FT OF CAMERA LOCATION. 2 DATA CABLES AND 1 SYNCHRONIZATION CABLE.
 - C3 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C4 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C7 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C8 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - AF1 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C6 -> C3 - TO TRUSS TOWER #1. SYNC CABLE TO BE TERMINATED T568A WITH BLUE KEYSTONE.
 - C7 -> C10 - TO TRUSS TOWER #1. SYNC CABLE TO BE TERMINATED T568A WITH BLUE KEYSTONE.
- 6X6X6 J-BOX - PROVIDE JUNCTION BOX CANTEX #5133710 OR SIMILAR.
- 7 DATA JACK - INSTALL 7 DATA JACK IN OUTDOOR RATED BOX WITH IN USE COVER WITHIN 6 FT OF CAMERA LOCATION. 5 DATA CABLES AND 2 SYNCHRONIZATION CABLES.
 - C5 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C6 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C7 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C8 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - AF1 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C10 -> C7 SYNC - TO TRUSS TOWER #2. SYNC CABLE TO BE TERMINATED T568A WITH BLUE KEYSTONE.
- 8x8x4 J-BOX - PROVIDE JUNCTION BOX CANTEX #5133712 OR SIMILAR.
- 4 DATA JACK - INSTALL 4 DATA JACK IN OUTDOOR RATED BOX WITH IN USE COVER WITHIN 6 FT OF CAMERA LOCATION. 2 DATA CABLES AND 2 SYNCHRONIZATION CABLES.
 - C9 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C10 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - AF2 - TO SERVER LOCATION. DATA CABLE TO BE TERMINATED T568B.
 - C10 -> C7 SYNC - TO TRUSS TOWER #2. SYNC CABLE TO BE TERMINATED T568A WITH BLUE KEYSTONE.



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Power Plan and Lighting Plan

DATE: 12-06-21
PROJECT NO: 21-0675

REVIEW: 12/07/2021

NO.	DATE	REVISION

SHEET NUMBER:
E1.2

100% CONSTRUCTION SET