

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMPS	COMMENTS
F	ACUITY BRANDS	FEM-L48-6000LM-LPFL-MD-MVOLT-G210-40K-80CRI -SBOR10	ENCLOSED AND GASKETED LED STRIP WITH INTEGRAL MOTION SENSOR	6000 LUMENS LED, 4000K, 38W PENDANT	LIGHT FIXTURES INSIDE EQUIPMENT ROOM WILL NOT REQUIRE INTEGRAL MOTION SENSOR OPTION.
FE	ACUITY BRANDS	FEM-L48-6000LM-LPFL-MD-MVOLT-G210-40K-80CRI-E10W/MCP-SBOR10	ENCLOSED AND GASKETED LED STRIP WITH EMERGENCY BATTERY BACKUP AND INTEGRAL MOTION SENSOR	6000 LUMENS LED, 4000K, 38W PENDANT	LIGHT FIXTURES INSIDE EQUIPMENT ROOM WILL NOT REQUIRE INTEGRAL MOTION SENSOR OPTION.
W	ACUITY BRANDS	WSTLED-P2-40K-VF-120-PE-E7WH-DBDX	LED WALL PACK WITH PHOTOCCELL AND EMERGENCY BATTERY BACKUP	3000 LUMENS LED, 4000K, 25W WALL	

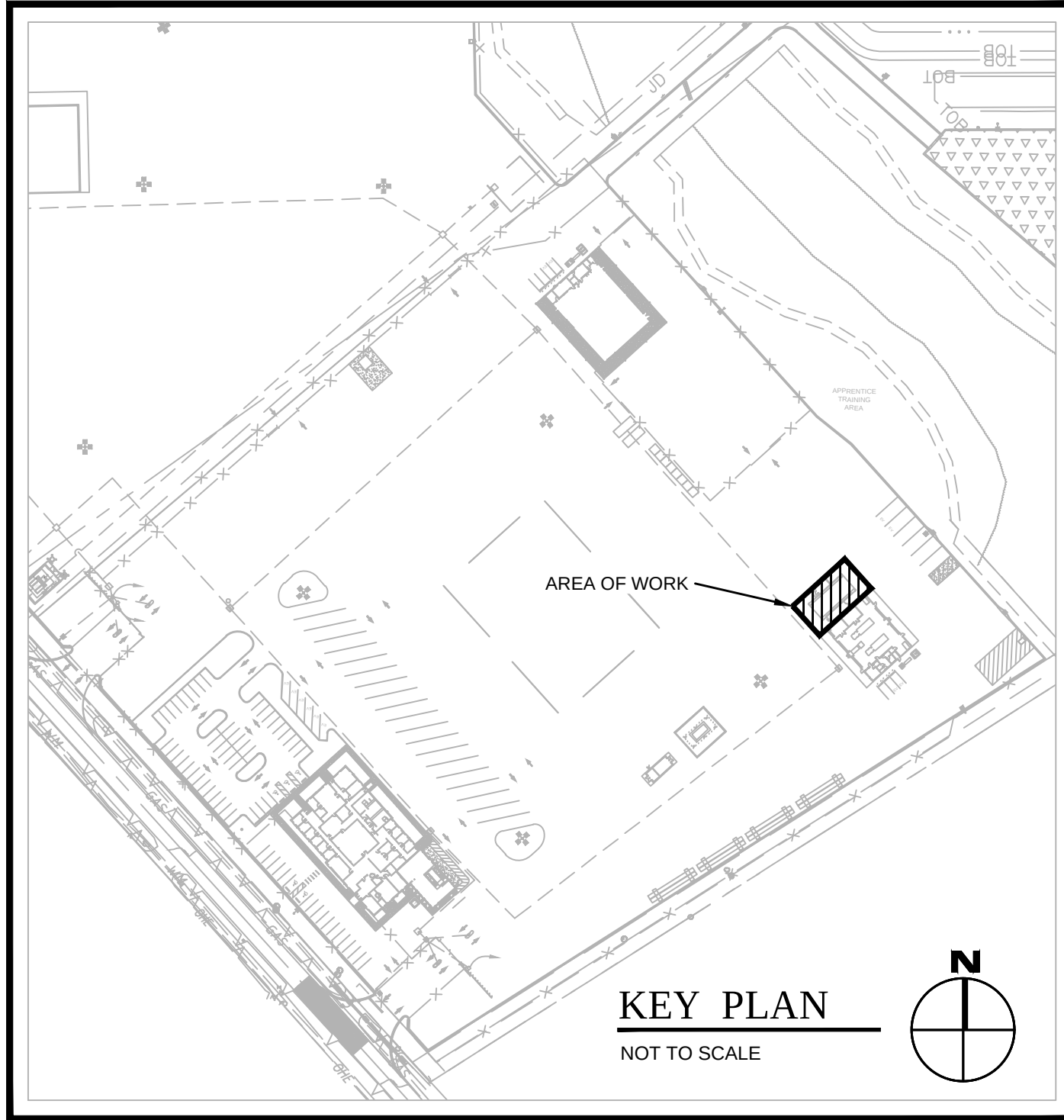
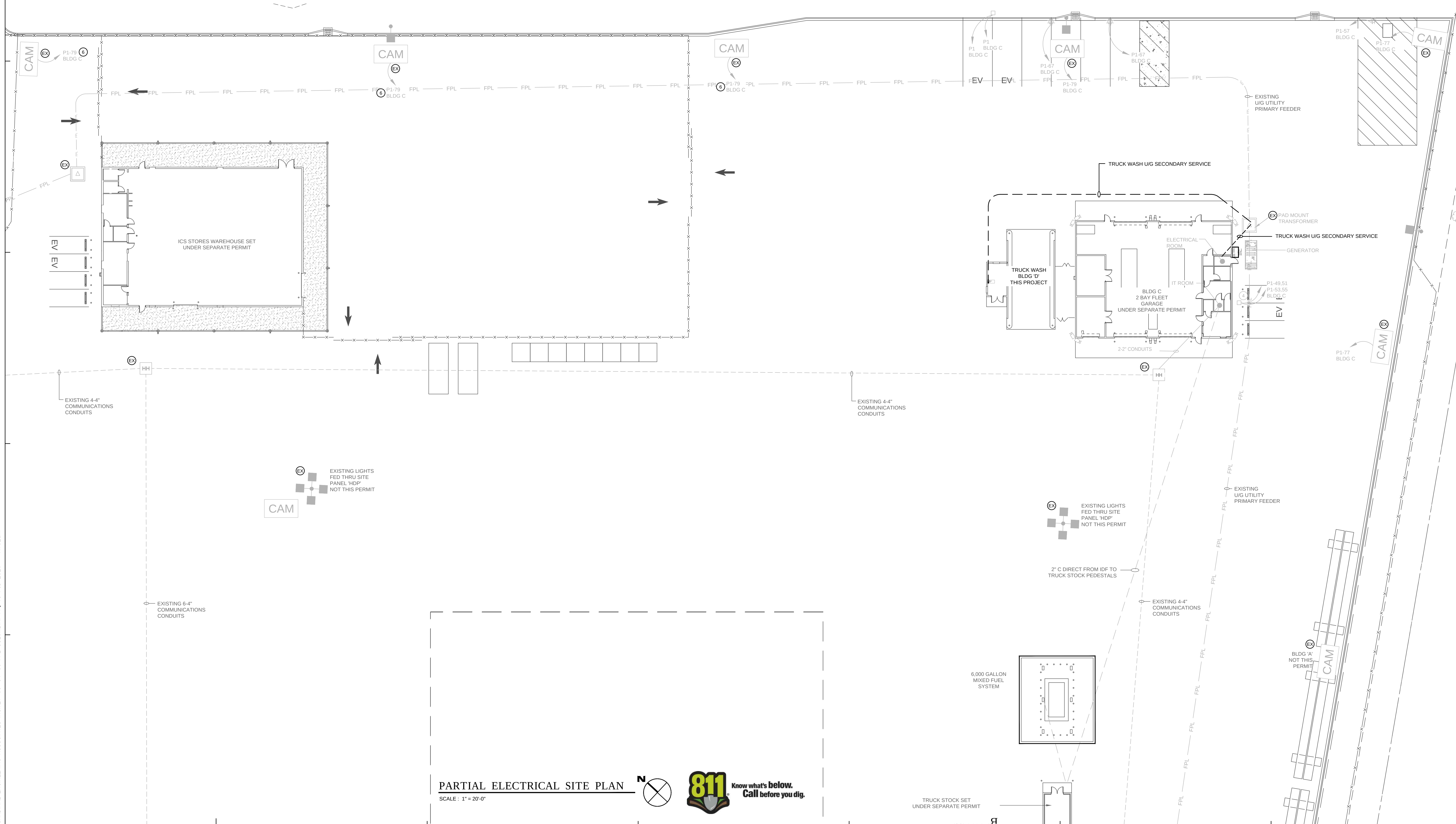
CONTROL CODE	TARGET AREAS	LIGHTING CONTROL DESIGN INTENT	REMARKS
1	EQUIPMENT ROOM	MANUAL ON/MANUAL OFF OPERATION: LIGHTS WILL BE MANUALLY TURNED ON AND OFF WITHOUT AUTOMATIC CONTROLS.	
2	TRUCK WASH BAY	AUTOMATIC ON/AUTOMATIC OFF OPERATION: LIGHTS WILL BE AUTOMATICALLY TURNED ON TO 100% LIGHT OUTPUT AND WILL BE AUTOMATICALLY TURNED OFF WHEN MOTION IS NOT DETECTED FOR A PERIOD OF 15 MINUTES. AUTOMATIC CONTROLS WILL BE OVERRIDDEN BY A MANUAL LOW VOLTAGE SWITCH.	MOTION SENSORS ARE INTEGRAL TO LIGHTING FIXTURES

1. LIGHTING FIXTURES, AS SPECIFIED HEREIN, ARE REPRESENTATIVE OF A MINIMUM STANDARD OF QUALITY. THE USE OF AN APPROVED EQUAL PRODUCT SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEFICIENCIES IN QUALITY, LIGHT OUTPUT, WARRANTY, AND OVERALL PERFORMANCE. IF THE REQUIRED ILLUMINANCE LEVELS ARE NOT MET, CONTRACTOR SHALL PROVIDE ADDITIONAL OR REPLACEMENT FIXTURES AT THEIR EXPENSE.
2. CONTRACTOR SHALL CLOSELY COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING TYPE SPECIFICATIONS WITH RESPECTIVE LIGHTING FIXTURE FOR EACH ROOM PRIOR TO ORDERING TO ASSURE PROPER INSTALLATION. CONFLICTS PERTAINING TO THE NEED FOR EQUIPMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD.
3. PROVIDE UNSWITCHED NORMAL SENSING CONDUCTOR FROM THE NORMAL CIRCUIT IN THE SAME SPACE TO ALL FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACK.

1. LIGHTING CONTROLS ARE DESIGNED TO COMPLY WITH THE FBC ENERGY CONSERVATION 2020 LIGHTING CONTROL DIRECTIVES UNDER SECTION 6.0.
2. BASIS OF DESIGN FOR THE LIGHTING CONTROL SYSTEM IS NIGHT-LIGHTING CONTROLS FOR THE TRUCK WASH BUILDING WILL CONSIST OF LINE AND LOW VOLTAGE SWITCHES AND RELAY POWER PACKS DESIGNED FOR STAND ALONE OPERATION.
3. THE WHOLE BUILDING LIGHTING POWER DENSITY (WSP) COMPLIES WITH THE REDUCED WHOLE BUILDING INTERIOR LIGHTING POWER ALLOWANCE IN TABLE C408.3 OF THE FBC ENERGY CONSERVATION 2020.
4. EMERGENCY LIGHTING SHALL BE PROVIDED WITH EMERGENCY BATTERY PACKS, WHERE THE NORMAL SOURCE IS AN "ORDINARY" OR "STANDARD" BRANCH CIRCUIT SUPPLY. EMERGENCY LIGHTING, IN NORMAL OPERATION, BE CONTROLLED BY THE LOCAL CONTROL DEVICE THAT CONTROLS THE NORMAL LIGHTING IN THE SPACE. UPON LOSS OF NORMAL POWER, THE EMERGENCY LIGHTING FIXTURES SHALL BE SET ON TO 100% POWER.

TOTAL NEW BUILDING AREA = 1,411 SF
TOTAL NEW INTERIOR LIGHTING WATTAGE = 405 W
LIGHTING POWER DENSITY = 365 W/1,411 SF = 0.26 W/SF < 0.71 W/SF
ALLOWABLE FOR AN AUTOMOTIVE AREA TYPE, COMPLYING WITH
TABLE C405.3.2(1) AND C406.3 OF THE FBC ENERGY CONSERVATION
2020 FOR REDUCED LIGHTING POWER DENSITY.

☒ (C) CLASS 1 (LINE VOLTAGE)



GENERAL NOTES THIS DRAWING

- COORDINATE ALL UNDERGROUND WORK WITH ALL OTHER TRADES AND ACTUAL FIELD CONDITIONS FOR PROPER CLEARANCES
- REFER TO FPL STANDARDS FOR ALL PRIMARY DUCT BANK INSTALLATION REQUIREMENTS.
- PROVIDE PULL LINES IN ALL CONDUITS.
- ALL UTILITY PRIMARY CONDUIT RUNS SHOWN ON THIS SHEET SHALL BE (2) 6" CONDUITS.
- CONDUIT ROUTING SHOWN IS DIAGRAMMATICAL AND NOT NECESSARILY REPRESENTATIVE OF MOST EFFICIENT ROUTE. CONTRACTOR SHALL FIELD ADJUST ALL SITE CONDUIT ROUTING TO ALLOW FOR SHORTEST POSSIBLE RUNS.
- EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED BY A PHOTOCELL CONNECTED TO THE LOW VOLTAGE LIGHTING CONTROL PANEL. MOUNT PHOTOCELL ON EXTERIOR WALL 8' AFG WITH UNOBSTRUCTED VIEW FACING NORTH.
- UNLESS OTHERWISE NOTED ALL UNDERGROUND CONDUITS SHOWN ARE FOR OWNER PROVIDED AND INSTALLED FIBER AND DATE CABLING FOR SITE SECURITY/IT EQUIPMENT. CONTRACTOR SHALL PROVIDE PULL LINES IN ALL SITE CONDUITS. TOP OF CONDUITS SHALL BE MINIMUM 36" BELOW FINISHED GRADE FOR DIRECT BURIED CONDUIT.
- ALL SITE LIGHTING FIXTURES SHALL BE MOUNTED AT 30' AFG UNLESS NOTED OTHERWISE.

KEYED NOTES (X)

- PROVIDE WIRING ACCESS FOR SECURITY CAMERA'S IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING DEVICE PLACEMENT WITH APPROVED AUDIO VISUAL SHOP DRAWINGS AND SUBJECT TO OWNER'S APPROVAL FOR ADDITIONAL INFORMATION.
- STEEL BOLLARD WITH QUAD OUTLET. REFER TO DETAIL 8, C-505 FOR ADDITIONAL INFORMATION.
- BOXED AREA SHALL BE CONSIDERED A CLASS 1 DIVISION 1 LOCATION. ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN THIS REGION SHALL BE EXPLOSION PROOF. ALL CONDUIT STUB UPS SHALL BE IN RIGID CONDUIT WITH THREADED FITTINGS. PROVIDE SEAL OFFS AT ALL CONDUITS AT BOTH ENDS.
- PROVIDE TWO BLINK MQ-200 MODEL IQW2-80U-WL-NL-N-25 ELECTRICAL VEHICLE CHARGING STATIONS AND BLINK TRIANGLE, DUAL PEDESTAL #01-0212 AT THIS LOCATION. REFER TO MANUFACTURERS INSTRUCTIONS FOR STUB UP AND ROUGH IN REQUIREMENTS. IN ADDITION TO POWER CIRCUIT HOMERUNS SHOWN PROVIDE A 1" DATA HOMERUN FROM EACH EV CHARGER TO THE IDF IN THE IT ROOM OF THE BUILDING SERVED.
- PROVIDE 11"x18" QUARTZITE TYPE PG, TIER 22 RATED, UNDERGROUND HANDHOLE FOR DISTRIBUTION TO FUTURE CHARGING STATION, COORDINATE EXACT LOCATION WITH SITE CONDITIONS AND PROPOSED CHARGING STATION LOCATION. EXTEND 1" EMPTY CONDUIT HOMERUN TO BLDG C, PANEL P1 AND 1" EMPTY CONDUIT HOMERUN TO BUILDING C IDF.
- EXISTING CAMERA TO BE POWERED BY BUILDING C' PANEL 'P1'.

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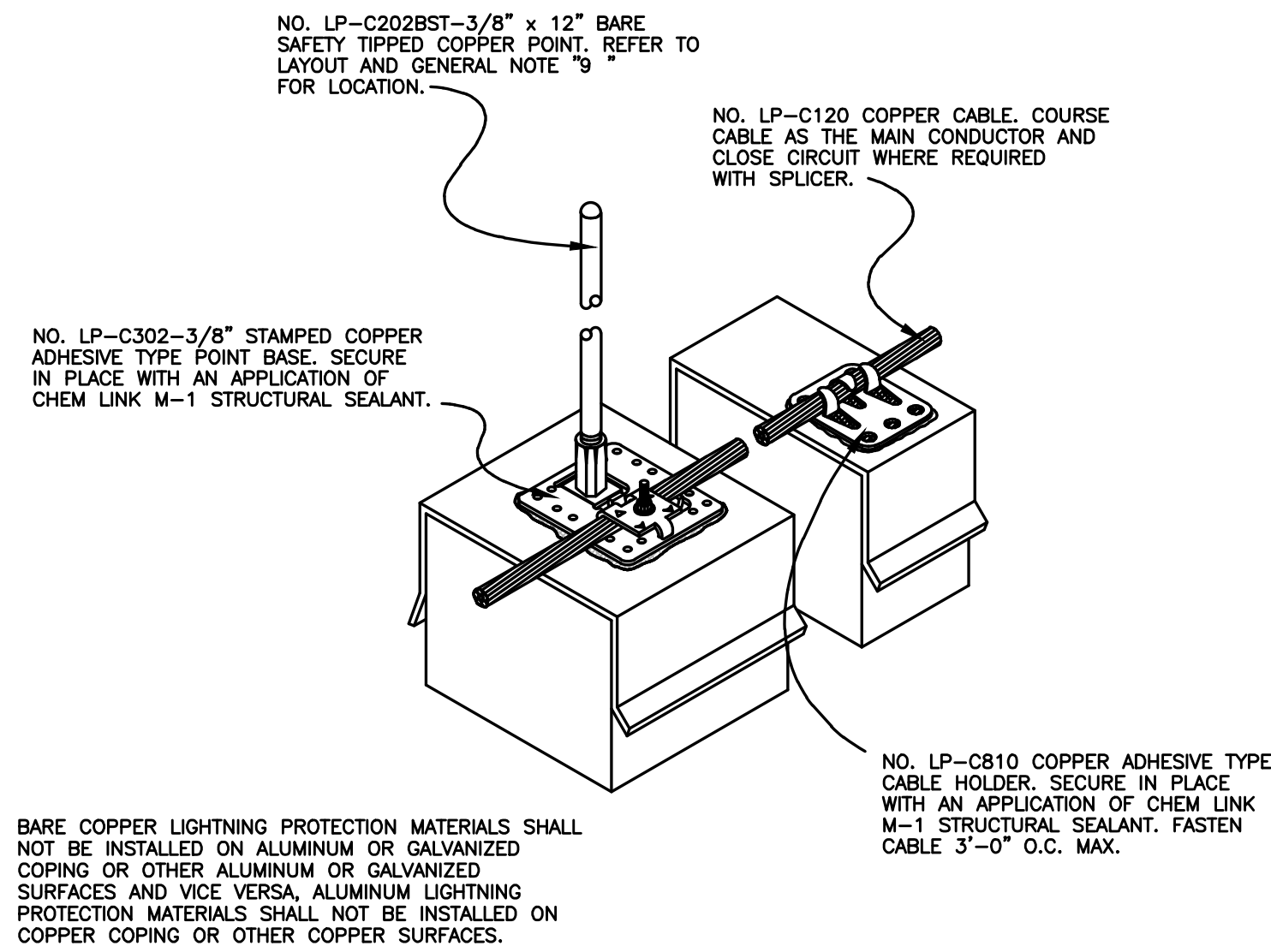
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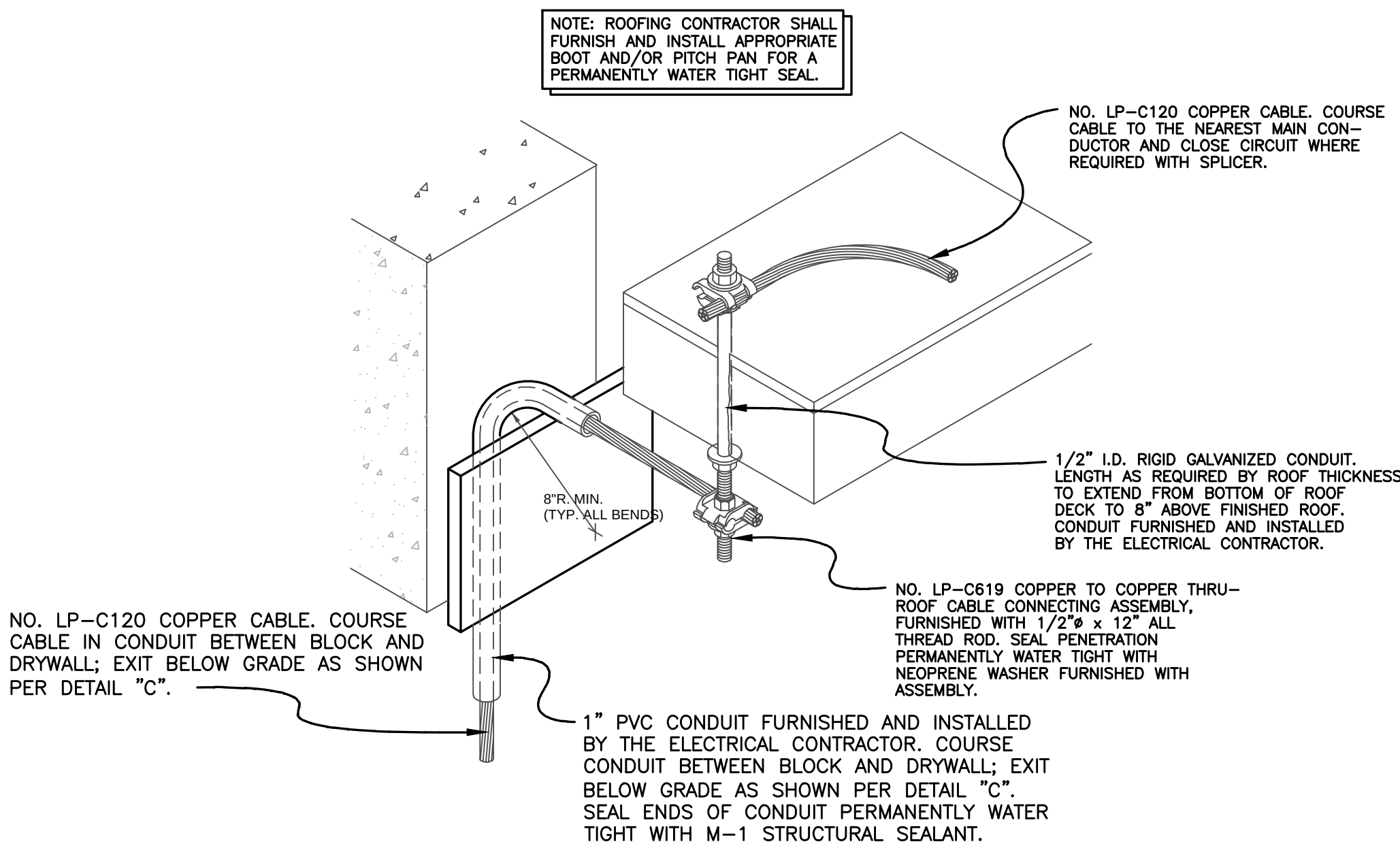
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REVISIONS		
NO.	REASON	DATE

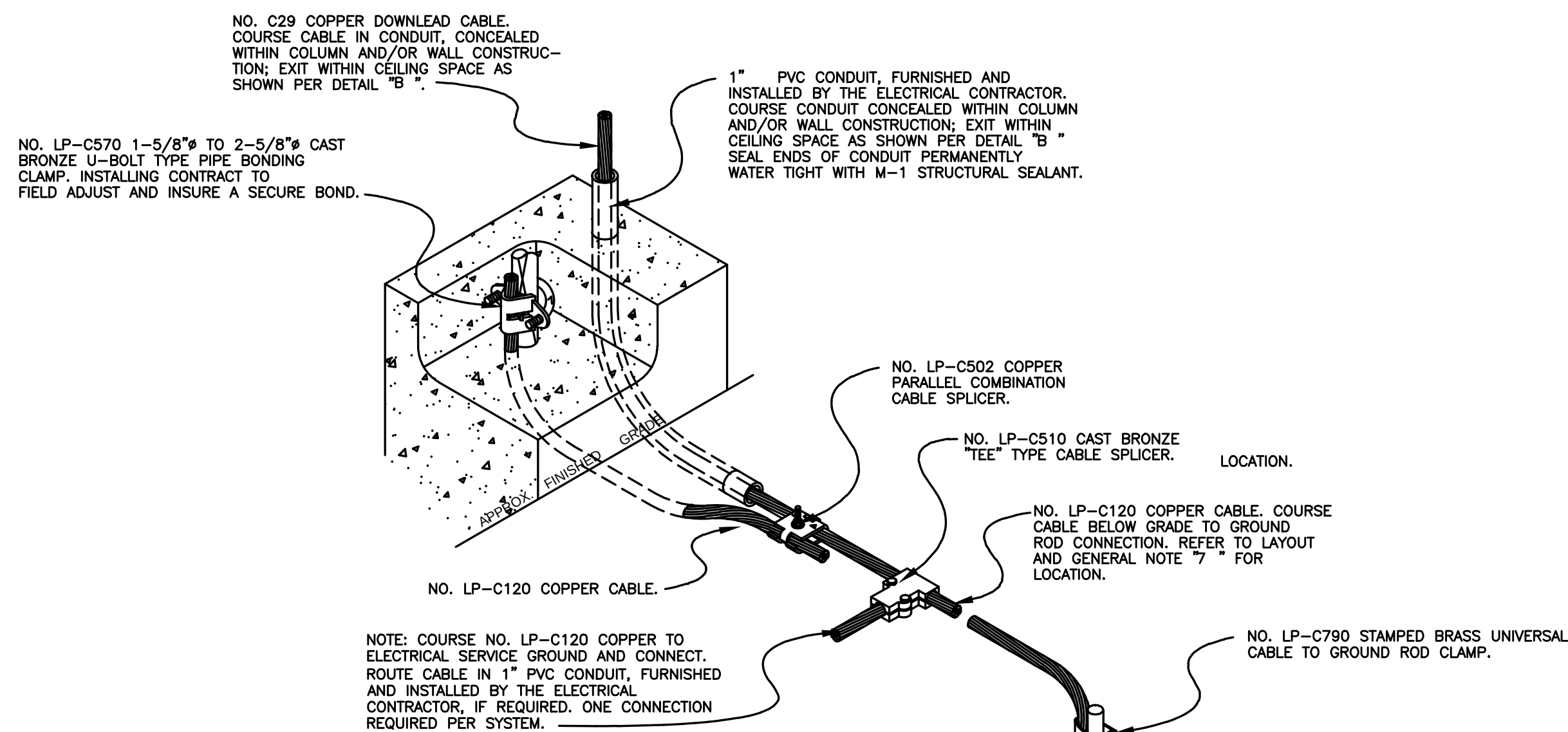
DESIGNED BY	DAVID LITHGOW
CHECKED BY	DAVID LITHGOW
DESIGN TEAM	CEA
PROJECT NO.	814C632800
SHEET TITLE	ELECTRICAL SITE PLAN
SHEET NUMBER	D-ES101



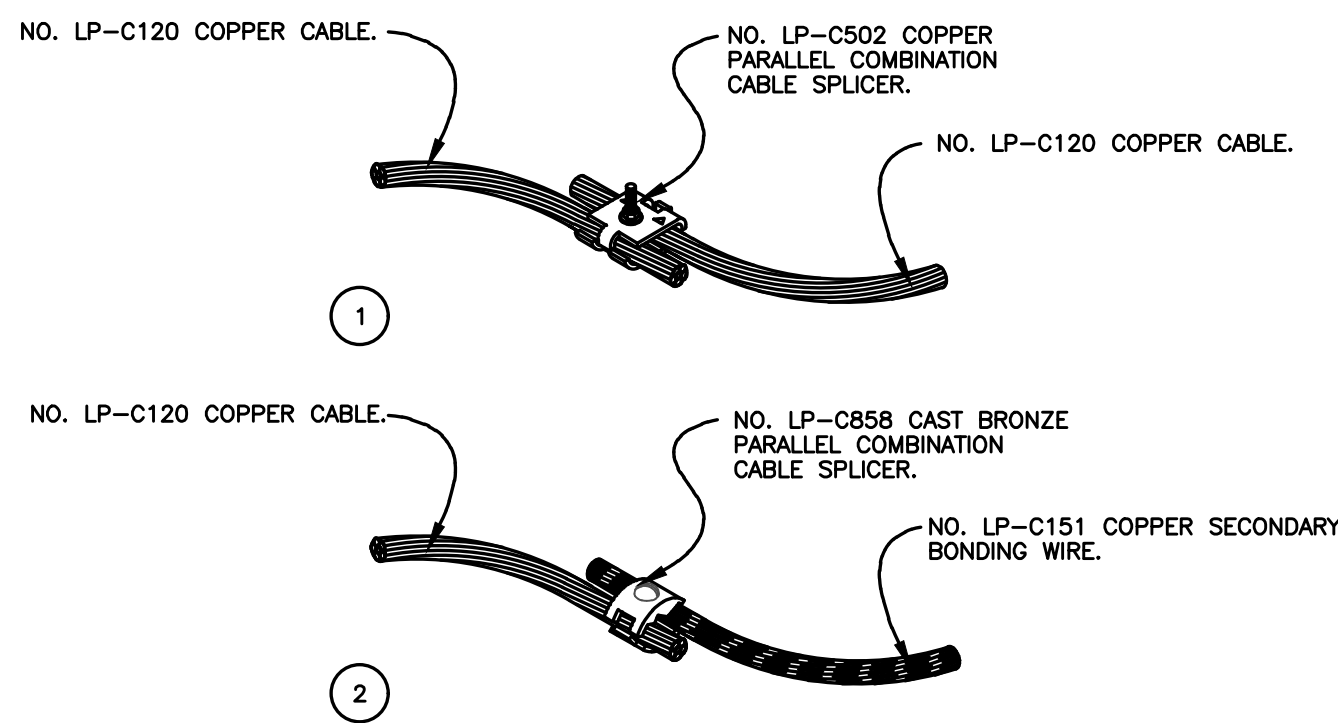
A PARAPET AIR TERMINAL
NOT TO SCALE



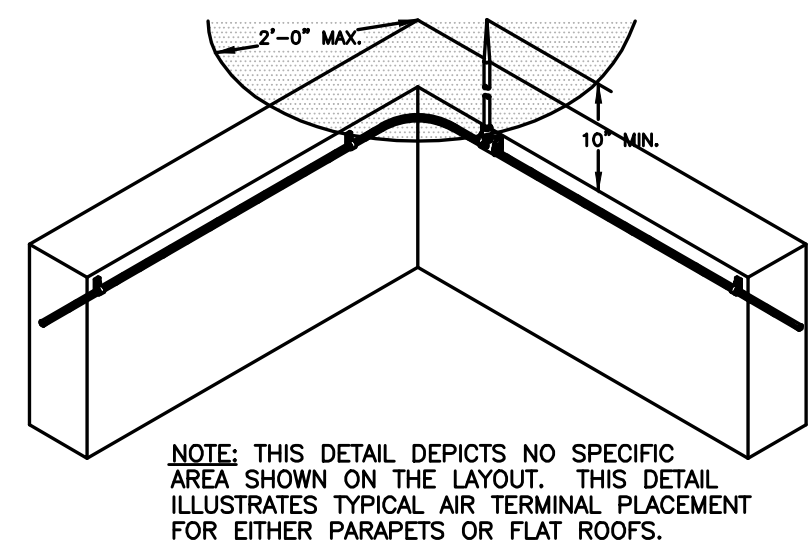
B THRU-ROOF CABLE CONN.
NOT TO SCALE



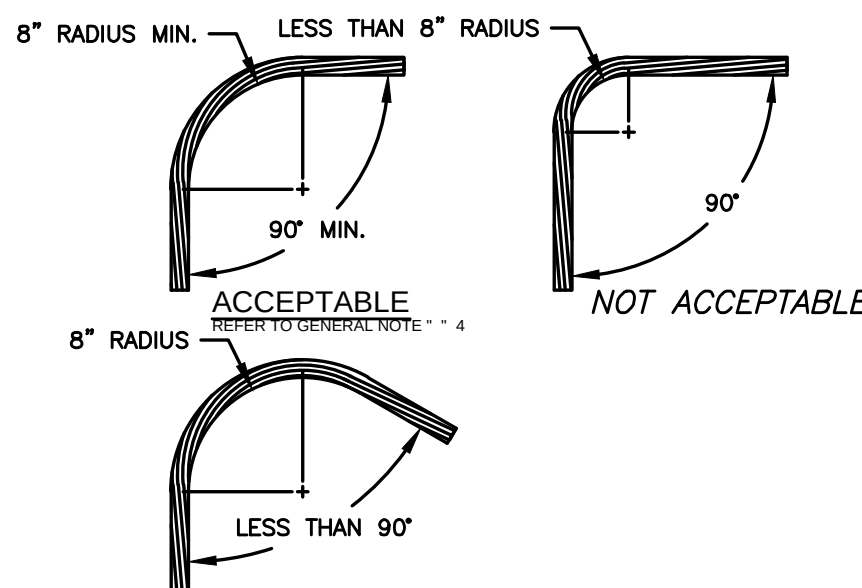
C CONCEALED DOWNLEAD TO GROUNDING CONN.
NOT TO SCALE



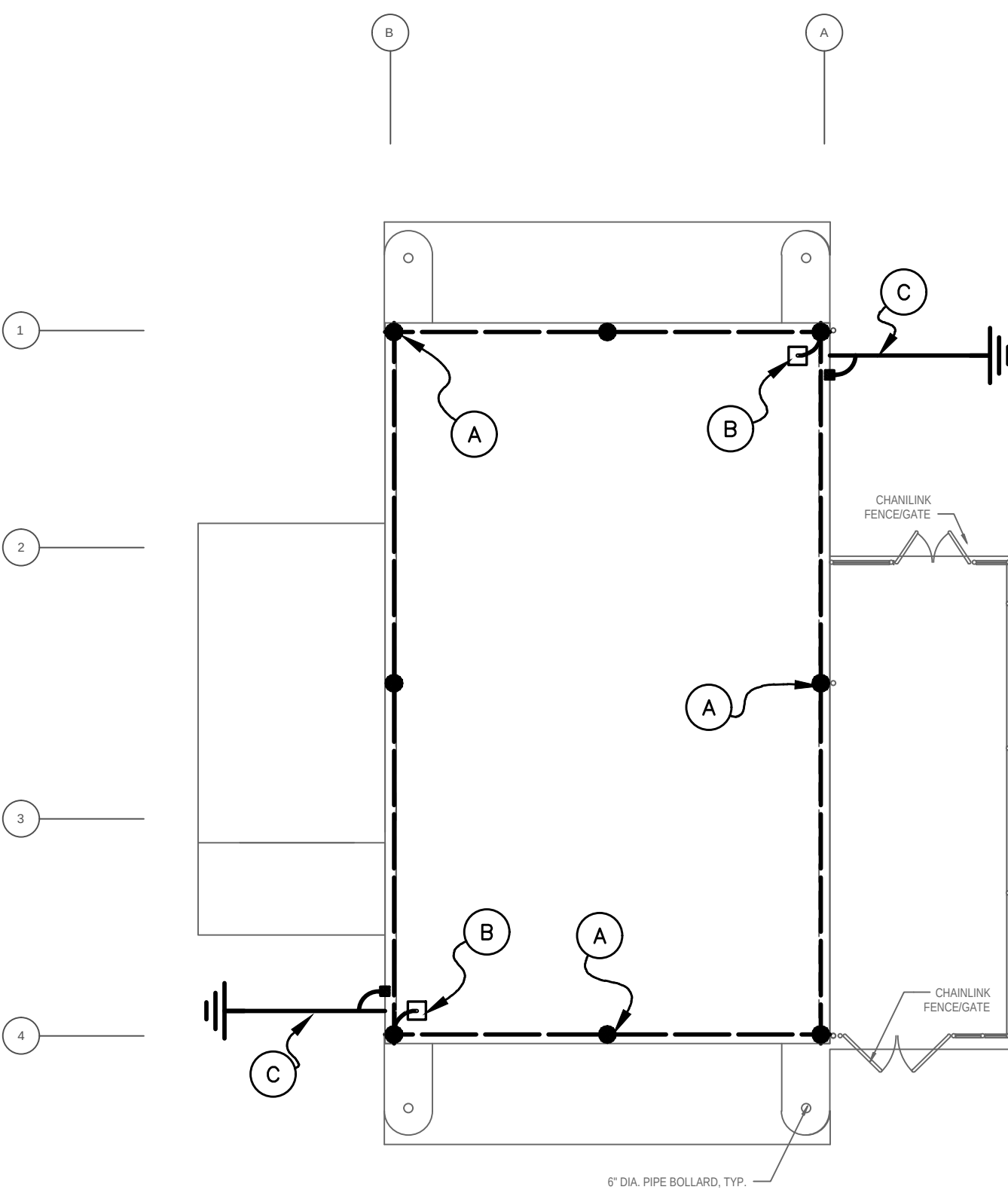
D TYP. BOLT TYPE CABLE SPLICERS
NOT TO SCALE



E TYP. AIR TERMINAL PLACEMENT AT OUTSIDE CORNERS
NOT TO SCALE

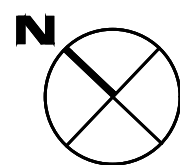


F TYP. CABLE BEND REQUIREMENTS
NOT TO SCALE



LIGHTNING PROTECTION AND GROUNDING PLAN

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



LEGEND			
●	AIR TERMINAL LOCATION		
□	THRU-ROOF LOCATION		
■	REBAR BOND PROVIDED BY BONDED LIGHTNING PROTECTION AND INSTALLED BY THE ELECTRICAL CONTRACTOR		
—	GROUND ROD LOCATION		
—	NO. C29 COPPER CABLE, U.L. LABELED, 29 STR., 17 GA., 192 LBS./1,000 FT., 59,450 CM. (#2 AWG).		
—	NO. C29 COPPER CABLE, U.L. LABELED, SAME SPECS AS ABOVE. COURSE CABLE CONCEALED FROM VIEW SHOWN.		
—	ROOF HATCH		
A.F.F.	ABOVE FIRST FLOOR		
GENERAL INSTALLATION NOTES			
1	CURRENT U.L. LISTED TVSS/SPD ARE REQUIRED ON ALL SERVICE ENTRANCES AND SHALL BE FURNISHED AND INSTALLED BY OTHERS.		
2	TELEPHONE AND/OR ELECTRICAL SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND OR WATER PIPE.		
3	METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS; METAL FLASHING, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION VENTS, LOUVERS AND DOOR FRAMES SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM.		
4	NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND OF LESS THAN 8".		
5	CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO-WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.		
6	ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3'-0" MAXIMUM SPACING.		
7	GROUND RODS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 10'-0" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.		
8	CONNECTIONS TO GROUND LOOP CONDUCTOR SHALL BE MADE AT A POINT NOT LESS THAN 18" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.		
9	AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20'-0" MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 2'-0" OF OUTSIDE EDGE.		
10	FOR SAKE OF CLARITY, WE HAVE NOT LABELED EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS ON THE ROOF PLAN. WE HAVE SHOWN INSTALLATION DETAILS AND HAVE CALLED OUT EACH OF THESE DETAILS ON THE ROOF PLAN ONLY AT RANDOM LOCATIONS.		
11	BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD OR GROUND LOOP.		
12	BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA. ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.		
13	THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.		
14	ACTUAL JOB-SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.		
15	MIDROOF AIR TERMINALS SHALL BE PLACED ON 50'-0" MAXIMUM SPACING.		
16	IF REQUIRED, ANY SACRIFICIAL ROOFING PADS, SHALL BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR.		
17	ALL ADHESIVE TYPE FITTINGS SHALL BE SET IN PLACE WITH AN APPLICATION OF CHEM LINK M-1 STRUCTURAL SEALANT ON NON-BALUSTED ROOFS.		
18	SEAL ENDS OF CONDUIT MOISTURE TIGHT WITH DUCT SEAL OR LEAD WEDGE.		
19	ALL CONDUIT, CONDUIT FASTENERS AND MISCELLANEOUS ACCESSORIES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.		
20	ALL REINFORCING, STRUCTURAL, FRAMING AND MISCELLANEOUS STEEL SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGHOUT CONSTRUCTION BY WELDING, CLIPPING, BOLTING OR OTHER APPROVED METHODS.		
21	THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES STANDARD 96A FOR MASTER LABELED OR LETTER OF FINDINGS LIGHTNING PROTECTION SYSTEMS WHEN REQUIRED BY SPECIFICATION.		
22	THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION STANDARD #780, CURRENT EDITION WHEN REQUIRED BY SPECIFICATION.		
23	THE LIGHTNING PROTECTION INSTALLATION SHALL COMPLY IN ALL RESPECTS TO LIGHTNING PROTECTION INSTITUTE STANDARD 175. THE INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF AN L.P.I. CERTIFIED MASTER INSTALLER, WHEN REQUIRED BY SPECIFICATION.		
NOTE: THE DESIGN LAYOUT AND INSTALLATION PROCEDURES SHOWN FOR THE BUILDING LIGHTNING PROTECTION SYSTEM AND THE COMPONENT PARTS SHOWN HEREON ARE ILLUSTRATED AS A STANDARD OF QUALITY BY BONDED LIGHTNING PROTECTION, 2080 W. INDIANTOWN ROAD, JUPITER, FLORIDA 33458. PHONE: 561-746-4336 FAX: 561-747-8233			
EVALUATION:			
PROJECT: TRUCK WASH BUILDING F			
FLORIDA INSTALLER & DESIGNER: BONDED LIGHTNING PROTECTION SYSTEMS, INC. LIGHTNING PROTECTION INSTITUTE INSTALLING MEMBER OF THE LIGHTNING PROTECTION INSTITUTE PHONE: 561-746-4336 FAX: 561-747-8233 2080 W. INDIANTOWN ROAD SUITE 100 JUPITER, FLORIDA 33458 333 N. FALKENBURG ROAD UNIT D-401 TAMPA, FLORIDA 33619 1505 CAPITAL CIRCLE NW UNIT B TALLAHASSEE, FLORIDA 32303			
JOB NO. MANUFACTURER ERST CORST LIGHTNING EQUIPMENT L.P.I. MEMBER - U.L.P.A. PHONE: 1-800-680-9462 E-MAIL: info@ecle.biz 24 LANSON DRIVE WINSTED, CT. 06098			
BLD22033			
DWN. BY RES			
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DATE: 6-20-22			
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REVISIONS			

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ISSUE FOR

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ISSUE DATE

02/15/2026

REASON

NO.

REASON

DATE

DESIGN TEAM

CEA

PROJECT TEAM

PRINCIPAL IN CHARGE
DAVID LITHGOW

PROJECT MANAGER
DAVID LITHGOW

DESIGN TEAM

CEA

PROJECT NO.

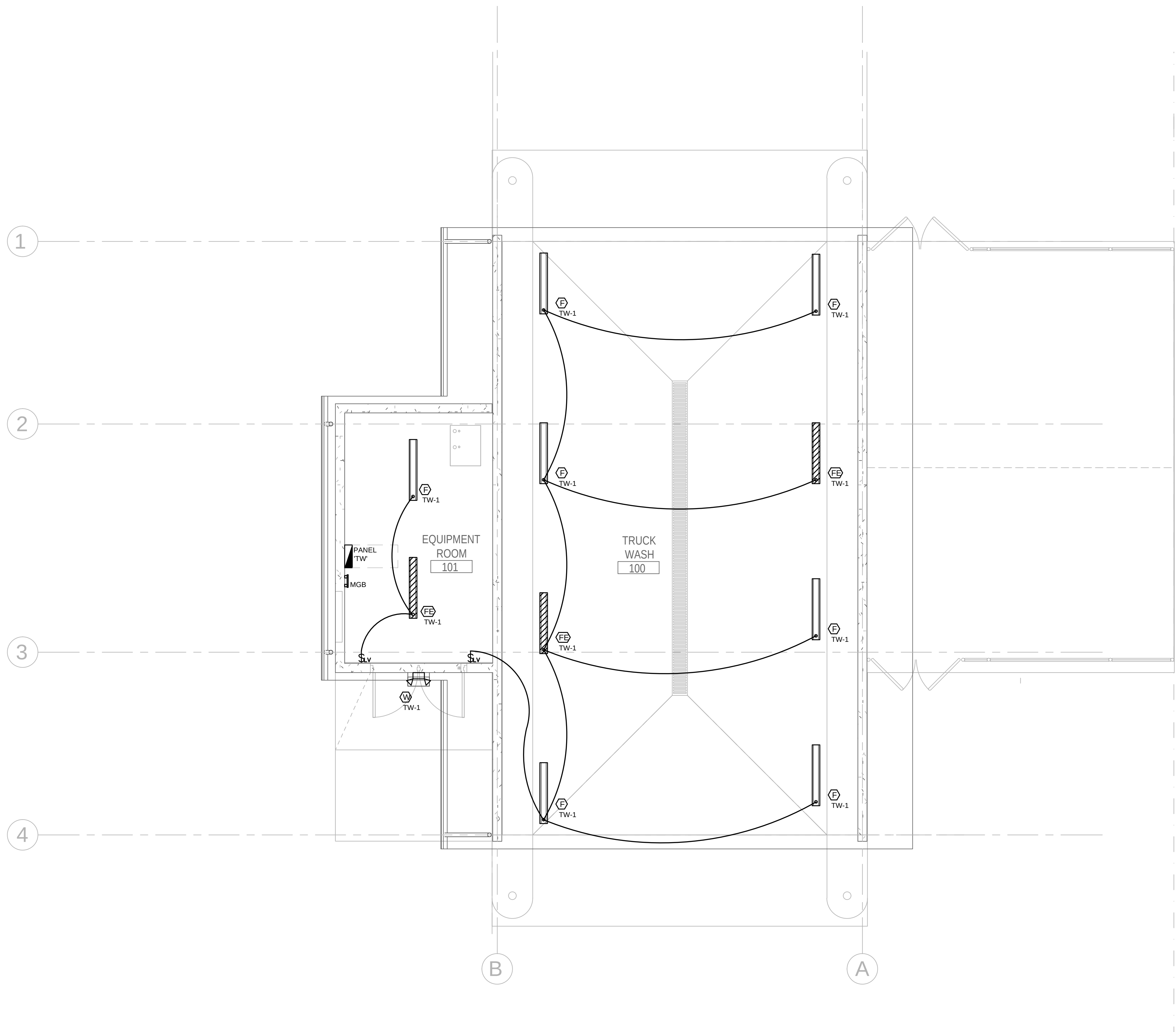
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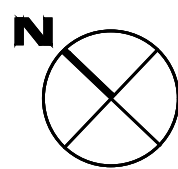
LIGHTNING PROTECTION & GROUNDING PLAN

SHEET NUMBER

D-EG101



LIGHTING PLAN
SCALE : 1/4" = 1'-0"



GENERAL NOTES THIS DRAWING

1. LIGHTING FIXTURES SHALL BE FED FROM PANEL TW UNLESS OTHERWISE NOTED.
2. REFER TO SHEET D-ED02 FOR LIGHT FIXTURES SCHEDULES, CONTROL MATRIX AND WIRING DIAGRAMS.

KEYED NOTES (X)

- ① LIGHT FIXTURES IN VEHICLE WASH BAY SHALL BE INSTALLED AT 12'-0" A.F.F.
- ② LIGHT FIXTURES IN EQUIPMENT ROOM SHALL BE INSTALLED AT 9'-0" A.F.F.

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02/15/2026

REV IS ONLY

NO.	REASON	DATE

PREPARED BY

DAVID LITHGOW

PROJECT MANAGER

DAVID LITHGOW

DESIGN TEAM

CEA

PROJECT NAME

COLUMBIA STORM PROCESSING & SERVICE CENTER - BUILDING D - TRUCK WASH
FLORIDA POWER & LIGHT

PROJECT NO.

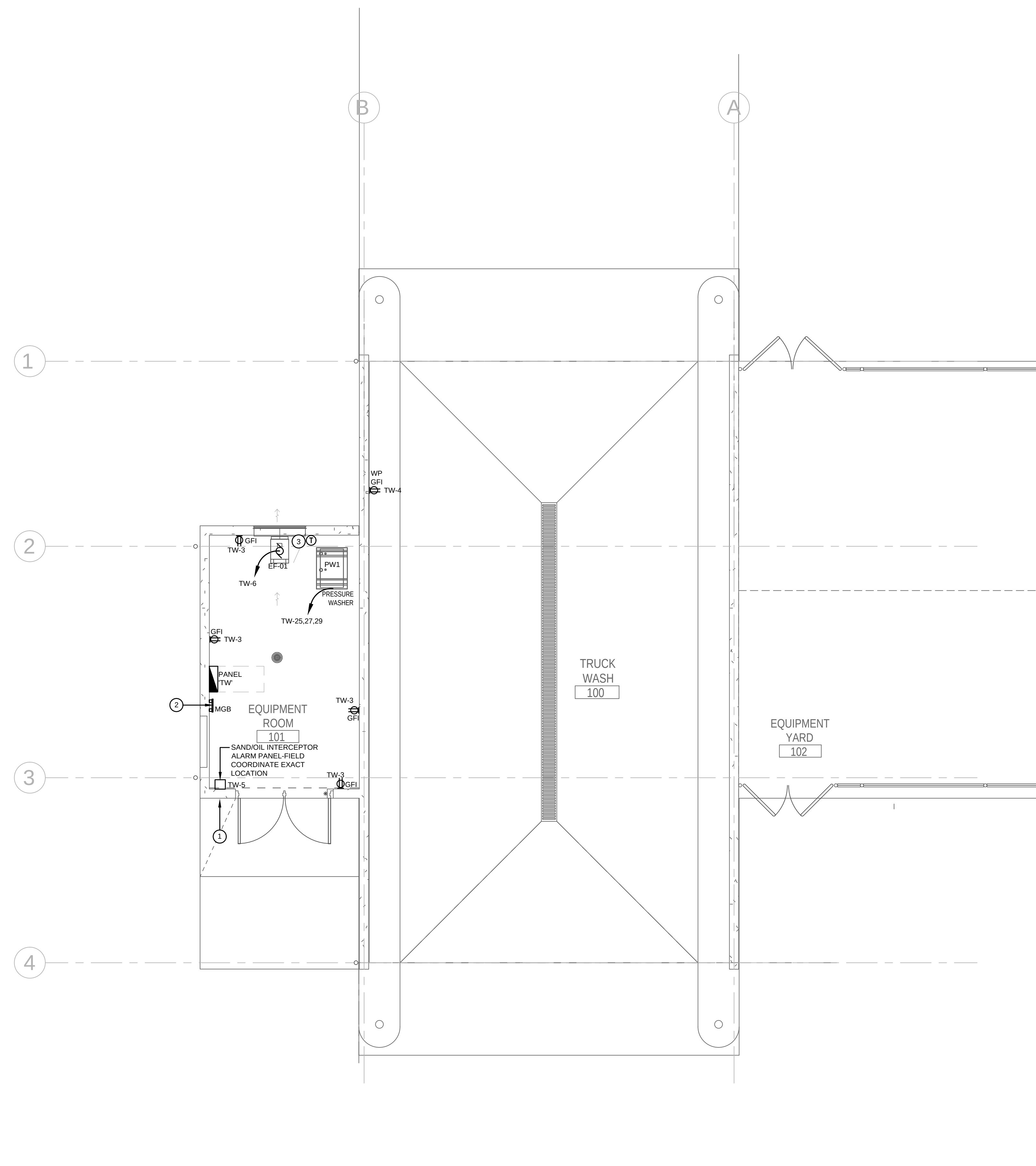
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SHEET TITLE

LIGHTING PLAN

SHEET NUMBER

D-EL101



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

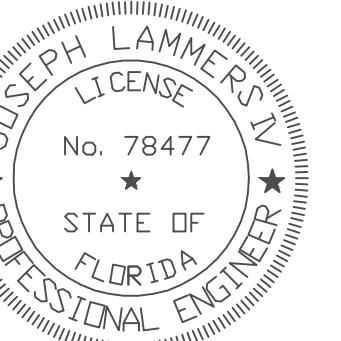
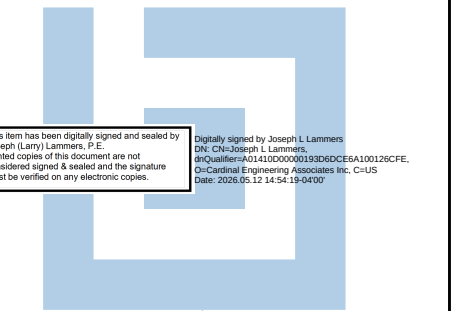


POWER NOTES:

1. CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS WILL BE PROVIDED BY THE DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED.
2. REFER TO SYSTEMS PLANS FOR COMMUNICATIONS DEVICES. WHERE 120V RECEPTACLE ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT AS RECEPTACLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.

KEYED NOTES (X)

- ① PROVIDE ENGRAVED PHENOLIC PERMANENT SIGN ON DOOR EXTERIOR WITH 1-1/2" HIGH LETTERS INDICATING "MAIN BUILDING DISCONNECTS INSIDE".
- ② BUILDING'S MAIN GROUND BAR, BOND GROUND BAR TO THE BUILDING'S MAIN GROUND COUNTERPOISE, MOUNT GROUND BAR AT 18" A.F.F.
- ③ COORDINATE FINAL THERMOSTAT LOCATIONS WITH HVAC AND CONTROLS TRADES, PROVIDE ROUGH-IN BOX AND 3/4" EMPTY CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING SPACE



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2/15/2026

SESSIONS		
D.	REASON	DATE

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PROJECT MANAGER
DAVID LITHGOW

EA

PROJECT NAME
COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING D -
TRUCK WASH
FLORIDA POWER & LIGHT

PROJECT NO. 14C632800

14C632800

ET TITLE

POWER PLAN

ET NUMBER

D-EP101

