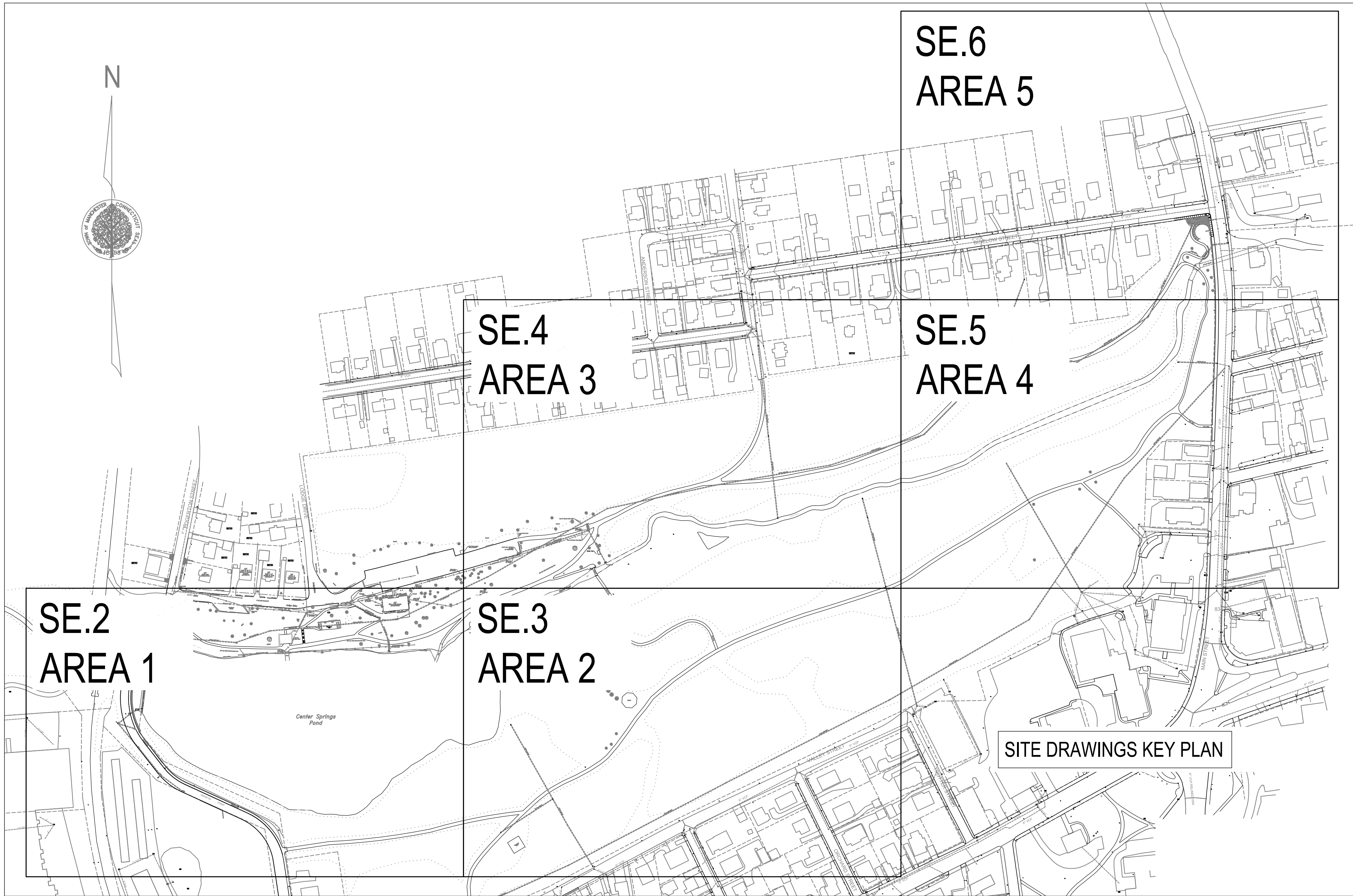


DRAWING IDENTIFICATION METHOD FOR SITE LIGHTING POLES

ELECTRICAL SPECIFICATION NOTES

- THE PROJECT SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
 - ELECTRIC SERVICES FOR SITE LIGHTING.
 - SITE LIGHTING AND CONTROLS.
 - FREE STANDING ENCLOSURES.
 - PANELBOARDS.
 - FEEDERS AND BRANCH CIRCUIT WIRING.
 - PULL BOXES.
 - CONCRETE PADS.
 - PRECAST REINFORCED CONCRETE FOUNDATIONS FOR SITE LIGHTING FIXTURES.
 - TRENCHING AND BACKFILL.
 - TESTING AND OWNER INSTRUCTION.
- THE EVERSOURCE CRS NUMBER FOR THIS PROJECT IS #19948741. THE EVERSOURCE FIELD ENGINEER FOR THE PROJECT IS ROBERT FERGUSON (860-280-2355).
- FINISHED WORK: THE INTENT OF THE SPECIFICATIONS AND DRAWINGS IS TO CALL FOR FINISHED WORK, COMPLETED, TESTED AND READY FOR OPERATION.
- GOOD PRACTICE: IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY CONDUIT, JUNCTION BOX, FITTING OR MINOR DETAIL AND IT IS UNDERSTOOD THAT WHILE THE DRAWINGS MUST BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE SYSTEMS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
- CODES AND STANDARDS - COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES AND STANDARDS WHEREVER APPLICABLE INCLUDING THE FOLLOWING: 2022 CONNECTICUT STATE BUILDING CODE, 2021 INTERNATIONAL BUILDING CODE, 2022 CONNECTICUT FIRE SAFETY CODE, 2021 INTERNATIONAL FIRE CODE, 2020 NFPA 70 NATIONAL ELECTRICAL CODE, ICC/ANSI A117.1-2017 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, ADA, NFPA, UNDERWRITERS LABORATORIES, FACTORY MUTUAL INSURANCE COMPANY, NEMA STANDARDS.
- NOTE THAT THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL EQUIPMENT AND SYSTEMS, WITHOUT SHOWING EVERY DETAIL AND FITTING.
- RACEWAYS:
 - PROVIDE EMT CONDUIT FOR ALL WORK INSIDE THE ELECTRIC SERVICE ENCLOSURES AND FOR ALL ABOVE GRADE CONDUIT WORK AT THE PEDESTRIAN BRIDGE. CONNECTORS, COUPLINGS, AND FITTINGS SHALL BE GALVANIZED STEEL SET-SCREW TYPE IN DRY LOCATIONS AND GLAND COMPRESSION TYPE IN DAMP AND WET LOCATIONS.
 - PROVIDE RIGID PVC CONDUIT FOR ALL UNDERGROUND WORK. PVC CONDUIT SHALL BE HEAVY WALL SCHEDULE 40 PVC FOR UNDERGROUND WORK AND EXTRA HEAVY WALL SCHEDULE 80 PVC FOR UNDERGROUND WORK BELOW VEHICULAR TRAFFIC AREAS. JOINTS AND FITTINGS SHALL BE SOLVENT WELDED ALL TO ASTM STANDARDS FOR UNDERGROUND INSTALLATION AND IN ACCORDANCE WITH ARTICLE 352 OF THE NATIONAL ELECTRIC CODE.
 - PROVIDED RIGID STEEL CONDUIT WHERE CALLED FOR ON THE DRAWINGS. RIGID STEEL CONDUIT CONNECTORS, COUPLINGS, AND FITTINGS SHALL BE THREADED AND GALVANIZED.
 - THE MINIMUM CONDUIT BURIAL DEPTH SHALL BE 30".
- CONDUCTORS SHALL BE COPPER, RATED 600 VOLTS, 90 DEG. C., COLOR CODED, TYPE THWN-2.
- WIRE SIZE #8 AWG AND LARGER SHALL BE STRANDED. WIRE OF SIZE SMALLER THAN #8 AWG SHALL BE SOLID.
- MINIMUM SIZE CONDUCTOR SHALL BE #12 AWG. MINIMUM CONDUIT SIZE SHALL BE 3/4" DIAMETER.
- ALL WIRING SPLICES MADE INSIDE SITE PULL BOXES SHALL BE WATERPROOF TYPE.
- ALL SITE LIGHTING FIXTURES SHALL BE INSTALLED PLUMB.
- LABEL EACH TYPE SA AND SB SITE LIGHTING FIXTURE WITH ITS DESIGNATED POLE IDENTIFICATION NUMBER AS INDICATED ON THE DRAWINGS. LABELS SHALL BE 1" CHARACTER HEIGHT, BLACK PRINT ON YELLOW BACKGROUND, SELF-ADHESIVE, UV RESISTANT, AND WEATHERPROOF. LABELS SHALL BE LOCATED DOWN LOW ON THE FIXTURE, NEAR THE BASE, ON THE OPPOSITE SIDE FROM THE WALKING TRAIL. SUBMIT A SAMPLE OF THE PROPOSED LABELING FOR APPROVAL PRIOR TO PROCEEDING WITH THE APPLICATION.
- WIRING DEVICES SHALL BE HEAVY DUTY INDUSTRIAL GRADE. PROVIDE SURFACE MOUNTED DRAWN GALVANIZED STEEL OUTLET BOXES WITH GALVANIZED STEEL CRUSHED CORNER COVER PLATES FOR WIRING DEVICES.
- PROVIDE FULL COMMISSIONING, SET-UP, AND TRAINING FOR THE TYPE SD LIGHT FIXTURES AND CONTROLS BY AUTHORIZED MANUFACTURERS FIELD SERVICE PERSONNEL. THE SYSTEM SHALL BE SET-UP TO OPERATE AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- ALL DISTURBED AREAS OTHER THAN PAVED AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL AND BE SEEDED. ALL SURPLUS SOILS SHALL BE DISPOSED OFF SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL ORDINANCES, RULES, REGULATIONS, AND CODES.

ELECTRICAL DRAWING LEGEND

SYMBOLS

- SITE LIGHTING FIXTURE, TYPE AS DESIGNATED.
- PB □ PULL BOX.
- ELECTRIC SERVICE CONDUIT OR BRANCH CIRCUIT WIRING IN CONDUIT AS INDICATED ON PLANS.

ABBREVIATIONS

- | | |
|------|--|
| A | AMPS. |
| AWG | AMERICAN WIRE GAUGE. |
| C | CONDUIT. |
| C/B | CIRCUIT BREAKER. |
| DIA. | DIAMETER. |
| ESE# | ELECTRIC SERVICE ENCLOSURE. |
| GFCI | INDICATES DEVICE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER. |
| GND | GROUND. |
| JB | JUNCTION BOX. |
| KVA | KILOVOLT-AMPS. |
| KW | KILOWATT. |
| NC | NORMALLY CLOSED. |
| NO | NORMALLY OPEN. |
| NTS | NOT TO SCALE. |
| P | POLE. |
| PB | PULL BOX. |
| TP | TWISTED PAIR. |
| TSP | TWISTED SHIELDED PAIR. |
| V | VOLTS. |
| VAC | VOLTS ALTERNATING CURRENT. |
| VDC | VOLTS DIRECT CURRENT. |
| WP | WEATHERPROOF. |

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KEY PLAN, LEGEND, AND SPECIFICATION NOTES

DATE: 4/2/2025
REV: 5/21/2025

DWG. NO.

SE.1

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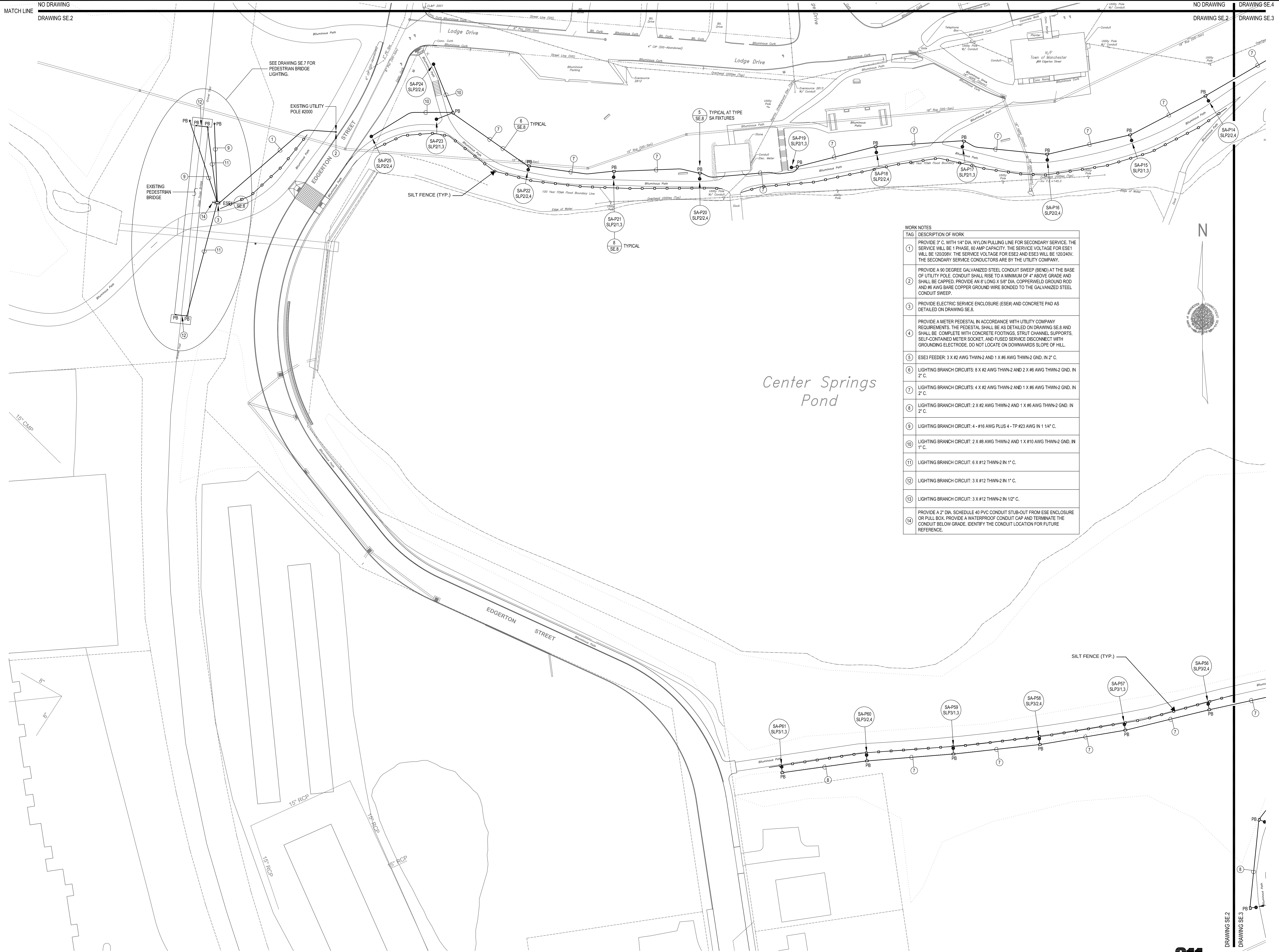
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TITLE
SITE ELECTRICAL
PLAN

DATE: 4/2/2025
REV: 5/21/2025

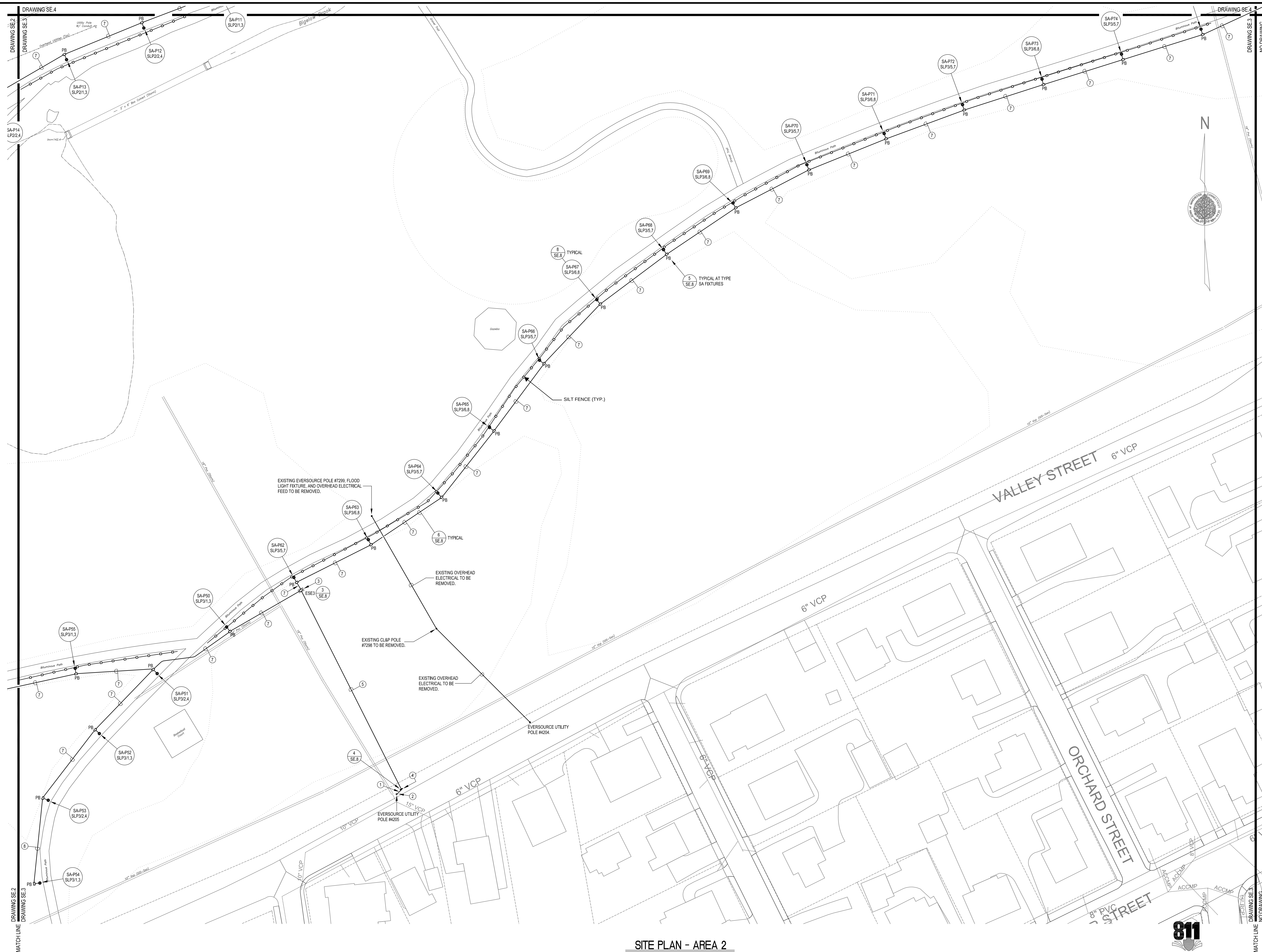
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SE.2



WORK NOTES	
TAG	DESCRIPTION OF WORK
1	PROVIDE 3" C. WITH 1/4" DIA. NYLON PULLING LINE FOR SECONDARY SERVICE. THE SERVICE WILL BE 1-PHASE, 80 AMP CAPACITY. THE SERVICE VOLTAGE FOR ESE1 WILL BE 120/208V. THE SERVICE VOLTAGE FOR ESE2 AND ESE3 WILL BE 120/240V. THE SECONDARY SERVICE CONDUCTORS ARE BY THE UTILITY COMPANY.
2	PROVIDE A 90 DEGREE GALVANIZED STEEL CONDUIT SWEEP (BEND) AT THE BASE OF UTILITY POLE. CONDUIT SHALL RISE TO A MINIMUM OF 4" ABOVE GRADE AND SHALL BE CAPPED. PROVIDE AN 8" LONG X 5/8" DIA. COPPERVELED GROUND ROD AND #6 AWG BARE COPPER GROUND WIRE BONDED TO THE GALVANIZED STEEL CONDUIT SWEEP.
3	PROVIDE ELECTRIC SERVICE ENCLOSURE (ESE) AND CONCRETE PAD AS DETAILED ON DRAWING SE.8.
4	PROVIDE A METER PEDESTAL IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. THE PEDESTAL SHALL BE AS DETAILED ON DRAWING SE.8 AND SHALL BE COMPLETE WITH CONCRETE FOOTINGS, STRUT CHANNEL SUPPORTS, SELF-CONTAINED METER SOCKET, AND FUSED SERVICE DISCONNECT WITH GROUNDING ELECTRODE. DO NOT LOCATE ON DOWNWARDS SLOPE OF HILL.
5	ESE3 FEEDER: 3 X #2 AWG THWN-2 AND 1 X #6 AWG THWN-2 GND. IN 2" C.
6	LIGHTING BRANCH CIRCUITS: 8 X #2 AWG THWN-2 AND 2 X #6 AWG THWN-2 GND. IN 2" C.
7	LIGHTING BRANCH CIRCUITS: 4 X #2 AWG THWN-2 AND 1 X #6 AWG THWN-2 GND. IN 2" C.
8	LIGHTING BRANCH CIRCUIT: 2 X #2 AWG THWN-2 AND 1 X #6 AWG THWN-2 GND. IN 2" C.
9	LIGHTING BRANCH CIRCUIT: 4 - #16 AWG PLUS 4 - TP #23 AWG IN 1 1/4" C.
10	LIGHTING BRANCH CIRCUIT: 2 X #8 AWG THWN-2 AND 1 X #10 AWG THWN-2 GND. IN 1" C.
11	LIGHTING BRANCH CIRCUIT: 6 X #12 THWN-2 IN 1" C.
12	LIGHTING BRANCH CIRCUIT: 3 X #12 THWN-2 IN 1" C.
13	LIGHTING BRANCH CIRCUIT: 3 X #12 THWN-2 IN 1/2" C.
14	PROVIDE A 2" DIA. SCHEDULE 40 PVC CONDUIT STUB-OUT FROM ESE ENCLOSURE OR PULL BOX. PROVIDE A WATERPROOF CONDUIT CAP AND TERMINATE THE CONDUIT BELOW GRADE. IDENTIFY THE CONDUIT LOCATION FOR FUTURE REFERENCE.

SITE PLAN - AREA 1
1" = 30'-0"





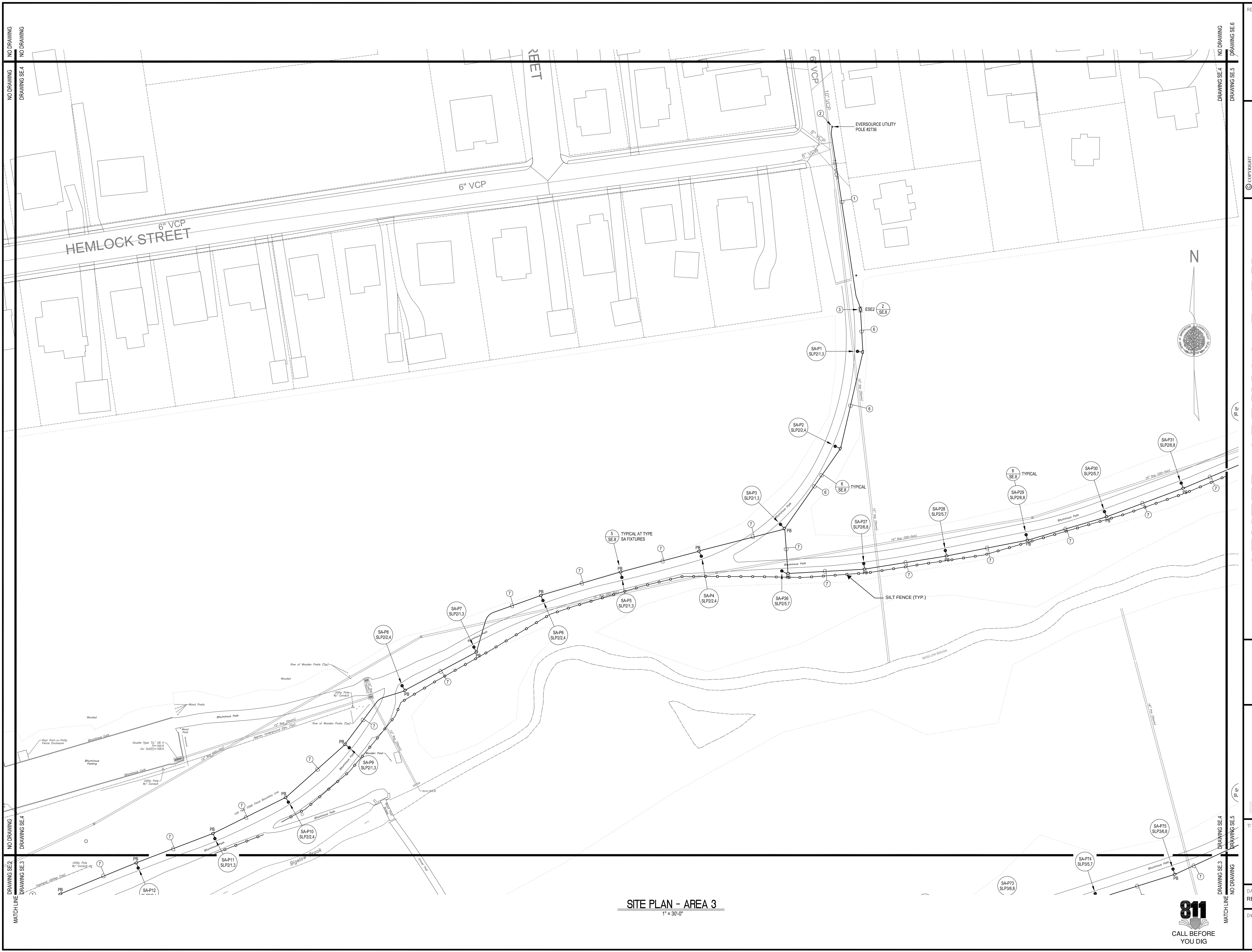
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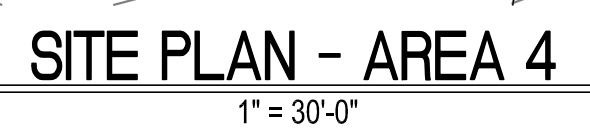
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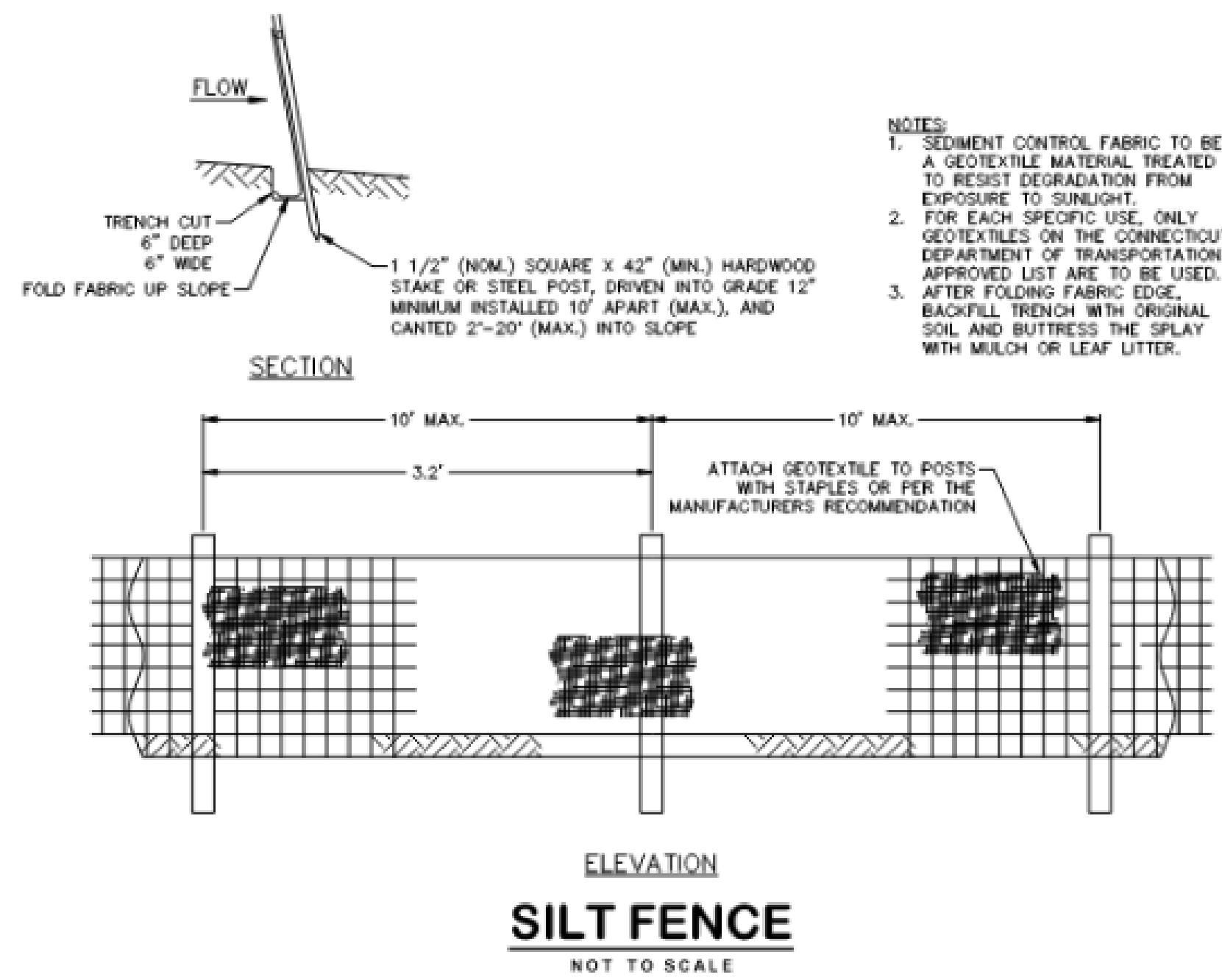


B/A

VG. NO.

811
ALL BEFORE
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TITLE
SITE
ELECTRICAL
PLAN

DATE: 4/2/2025
REV: 5/21/2025

DWG. NO.

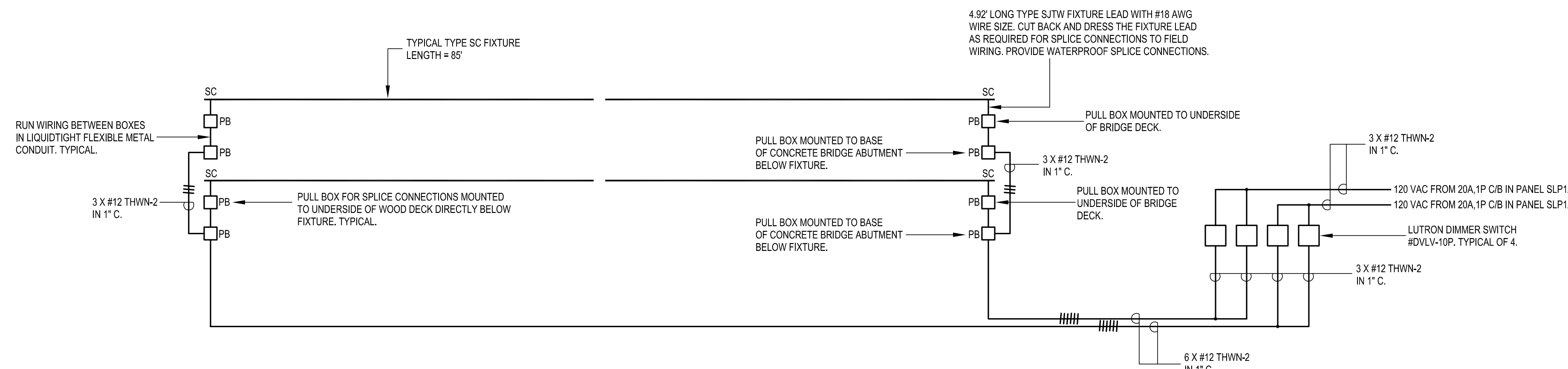
SE.6



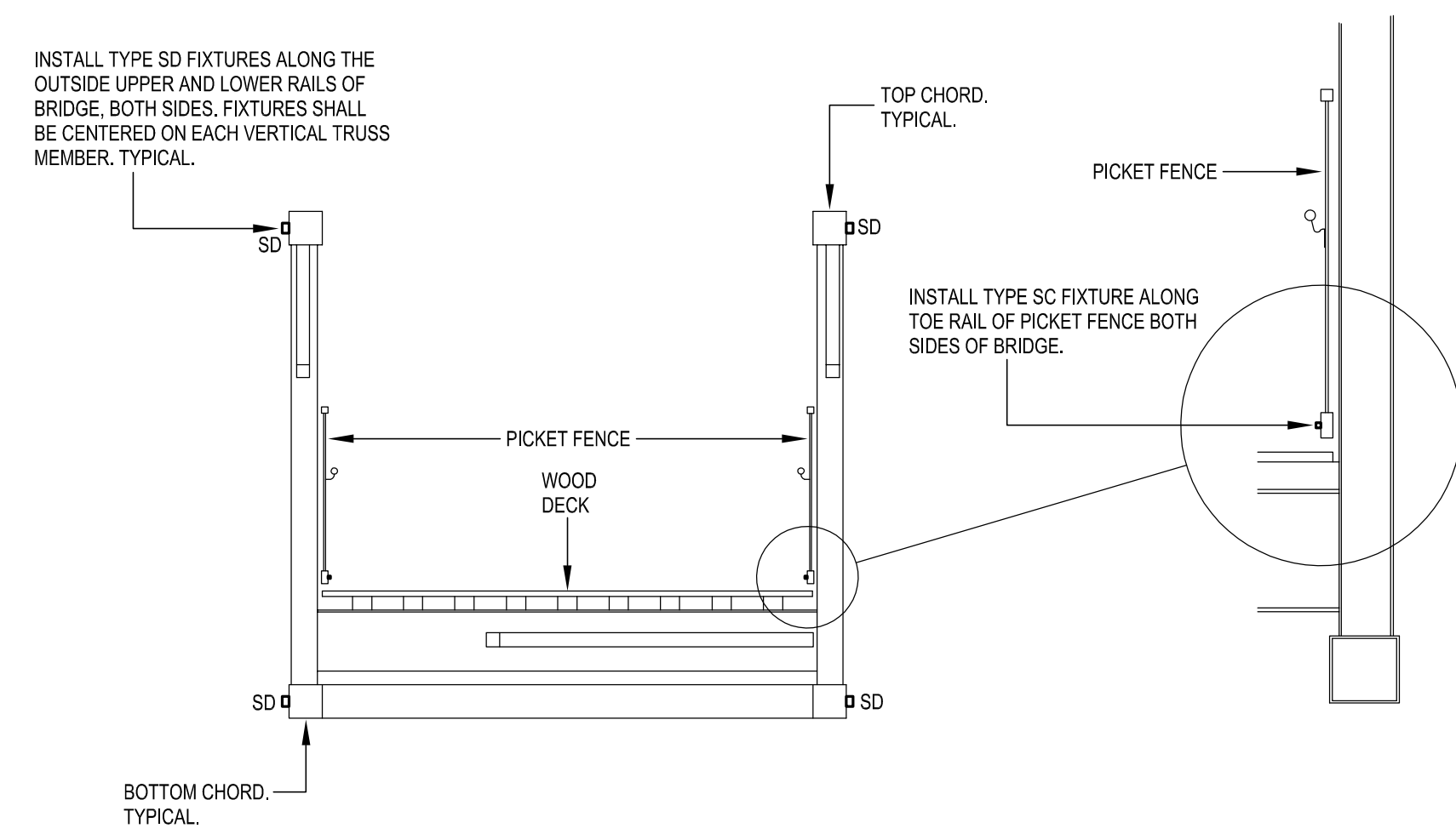
LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURE AND MODEL	LAMP	LENS/REFLECTOR	MOUNTING	ON-BOARD CONTROL	REMARKS
SA	INVAUE (COOPER) #ANB-82-LED-D13-BK-103-WLS2BK-ARPA4-BK/ARPL310ABKSG	LED'S, 4500 LUMENS, 3000°K, 70 CRI	INJECTION MODED ACYTRILIC LENS	POST TOP	DUSK TO DAWN CONTROL VIA INTEGRAL PHOTOCELL AND 50% DIMMING VIA INTEGRAL PIR OCCUPANCY SENSOR	PROGRAM FIXTURES FOR INDIVIDUAL FIXTURE PHOTOCELL AND DIMMING CONTROL, NOT GROUP CONTROL.
SB	INVAUE (COOPER) #ANB-82-LED-D13-BK-103-WLS2BK-ARPA4-BK/ARPL310ABKSG	LED'S, 1270 LUMENS, 3000°K, 80 CRI	INJECTION MODED ACYTRILIC LENS	BOLLARD	-	FIXTURES CONTROLLED BY TIME CLOCK ONLY (NO ONBOARD CONTROLS).
SC	NOVA FLEX #NF-NEON-O-120V-SB-2700K WITH #NF-SP-CH-NEON-120V-SB-FLEX CHANNEL	LED'S, 287 LUMENS/FT, 2700°K	INTEGRAL	FLEX CHANNEL	-	PROVIDE SIDE ENTRY FIXTURE LEAD, PROVIDE FLEX CHANNEL IN CUSTOM COLOR (MATT BLACK) TO MATCH MOUNTING SURFACE.
SD	LUMASCAPE #LS9230-SD 4CA R27 2 DC 15 132 S 13 PV DB 32	LED'S, 200 LUMENS, 2700°K, 80 CRI	DIFFUSED DOME LENS	SURFACE	-	PROVIDE POWER SUPPLY, DATA INJECTORS, DMX CONTROLLER, LEADER CABLES, AND TERMINATORS AS NOTED ON DRAWINGS.
SE	LUMIERE (COOPER) #303-A1-LED81-2700-UNV-T4-DIM10-BK-64-CF	LED'S, 475 LUMENS, 2700°K, 80 CRI	TEMPERED GLASS LENS	SURFACE	-	FIXTURES CONTROLLED BY TIME CLOCK ONLY (NO ONBOARD CONTROLS).
SF	CANLET #V-VE-ALUMINUM-G-W-120	INTEGRAL LED'S	FROSTED GLASS/ALUM. GUARD	SURFACE	-	-

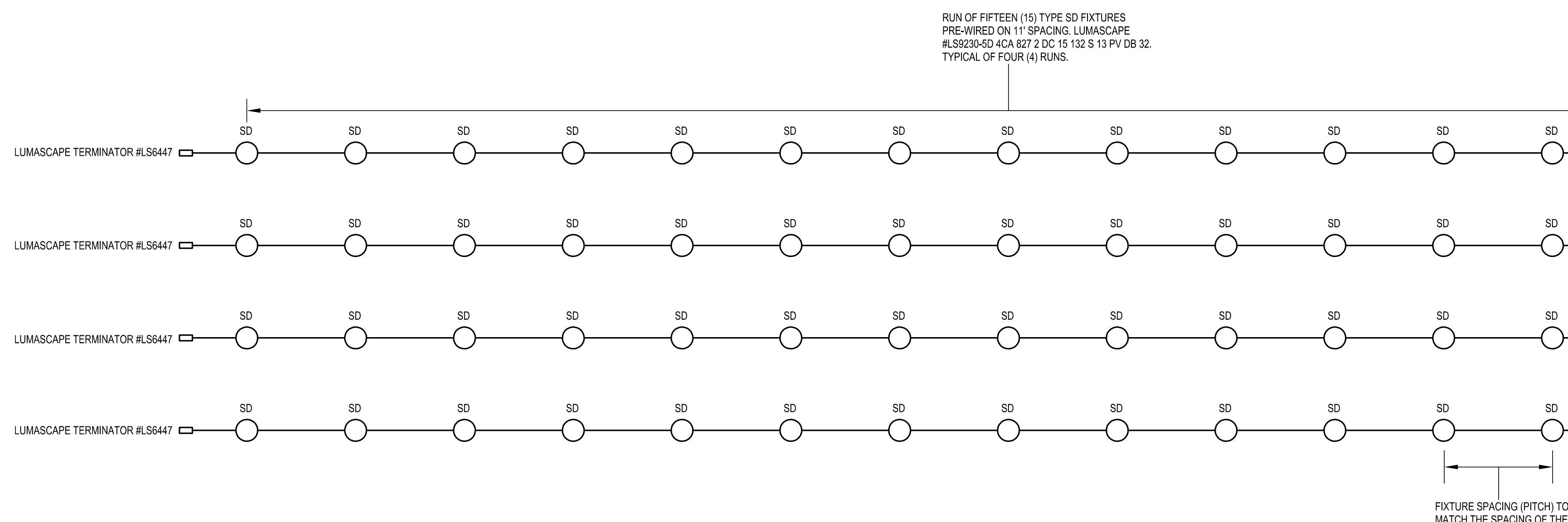
NOTE - PROVIDE FIXTURES SCHEDULED OR EQUAL AS DETERMINED BY ENGINEER. PROPOSED SUBSTITUTE FIXTURES MUST BE EQUAL IN ALL ASPECTS OF APPEARANCE, PERFORMANCE, AND QUALITY OR THEY WILL BE REJECTED.



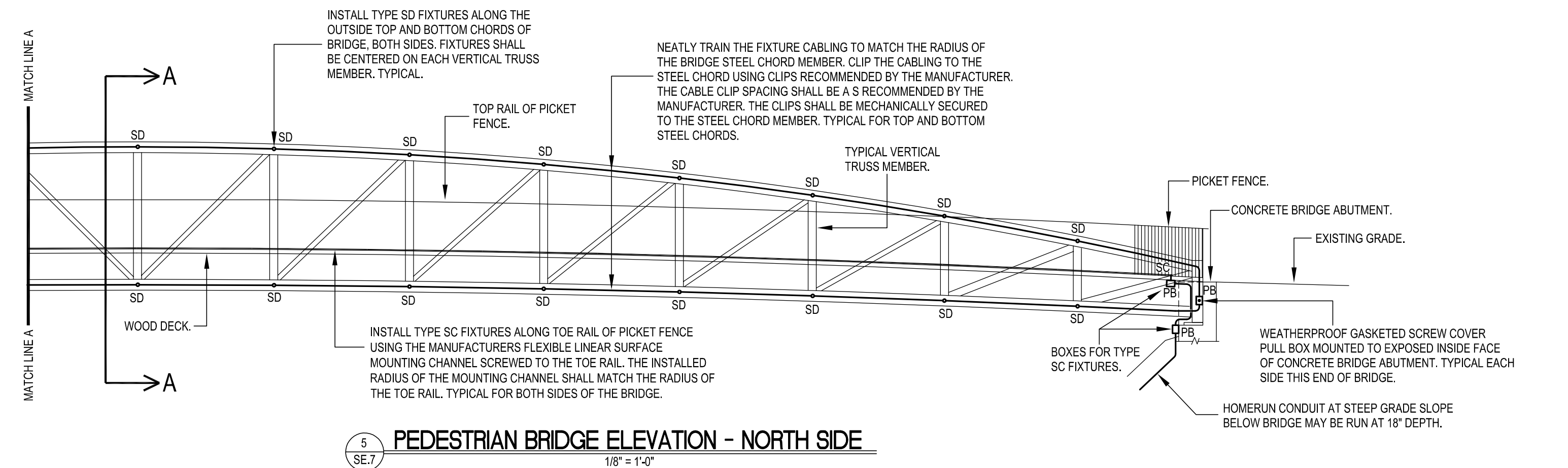
TYPE SC LIGHT FIXTURES SCHEMATIC WIRING DIAGRAM



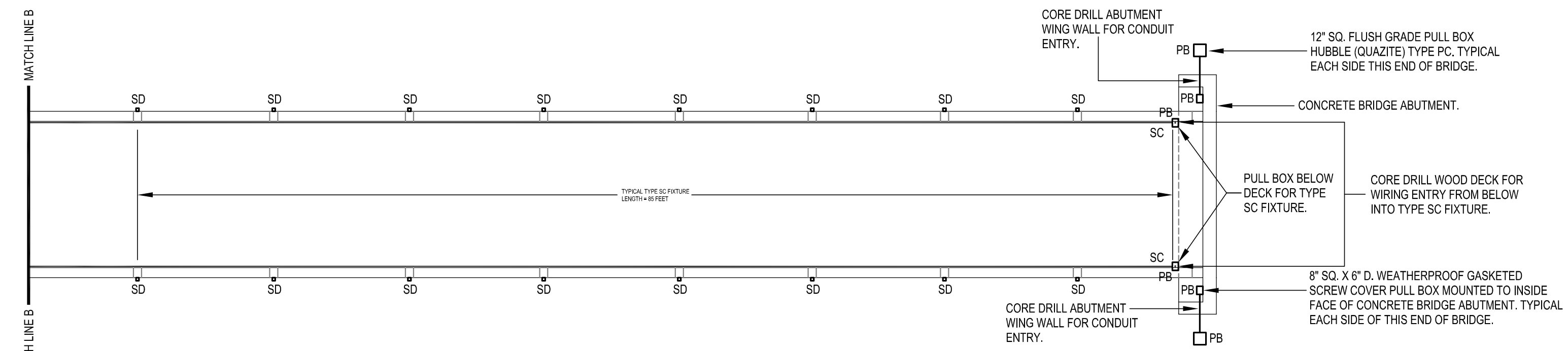
PEDESTRIAN BRIDGE SECTION A-A SHOWING FIXTURE PLACEMENT



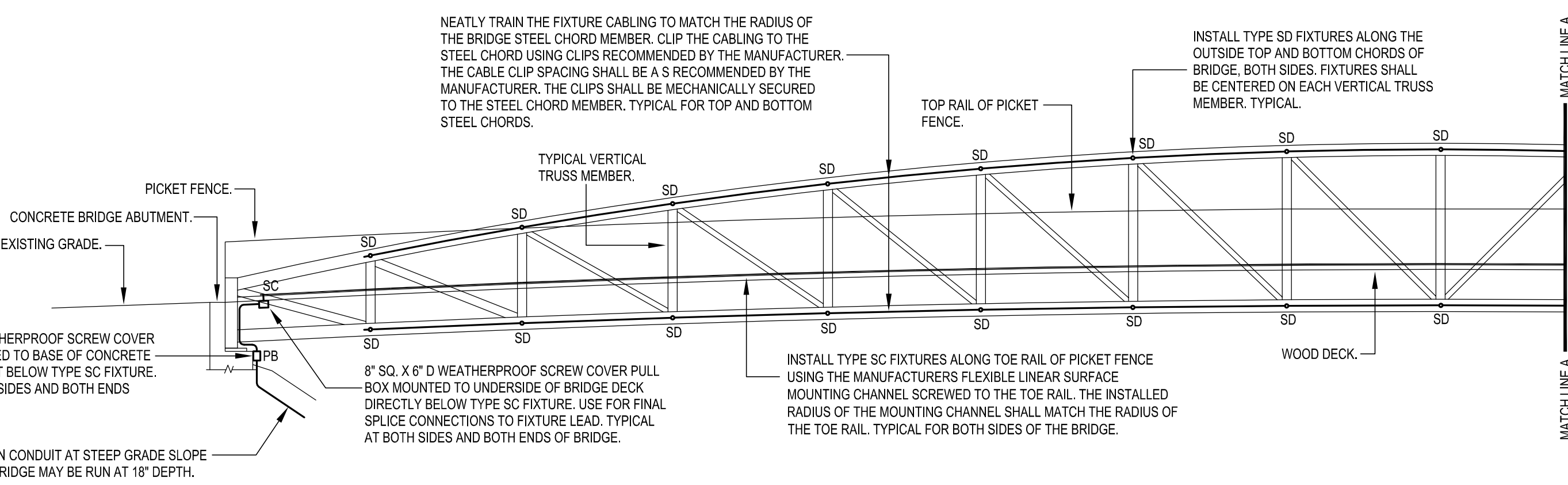
TYPE SD LIGHT FIXTURES SCHEMATIC WIRING DIAGRAM



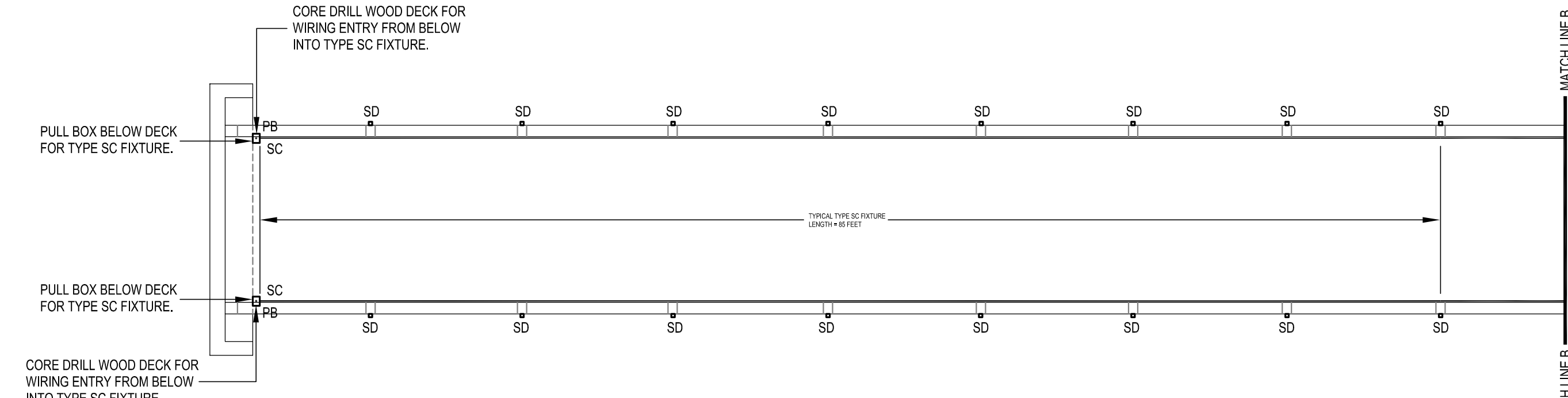
PEDESTRIAN BRIDGE ELEVATION - NORTH SIDE



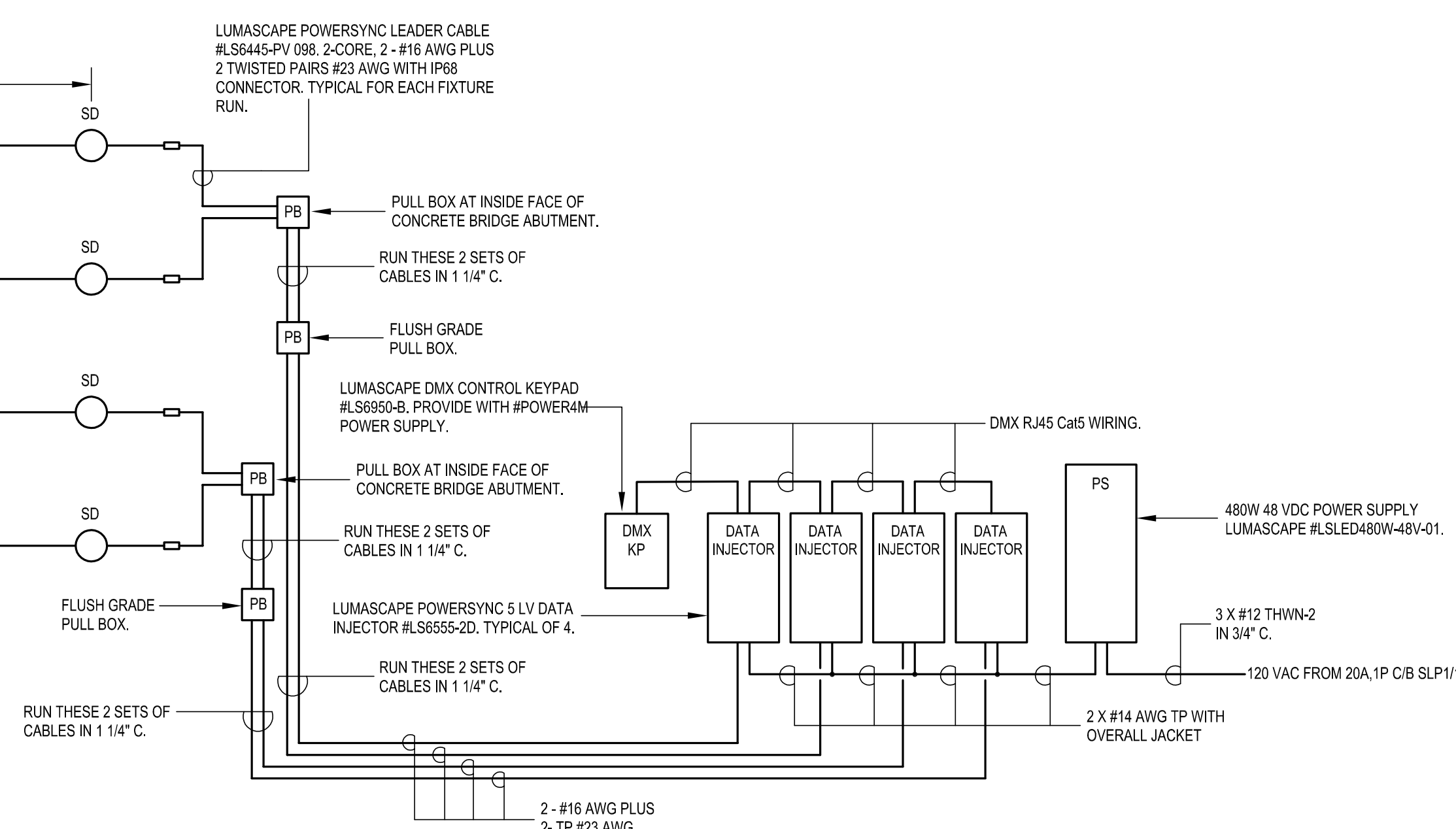
PEDESTRIAN BRIDGE LIGHTING PLAN - NORTH SIDE



PEDESTRIAN BRIDGE ELEVATION - SOUTH SIDE



PEDESTRIAN BRIDGE LIGHTING PLAN - SOUTH SIDE



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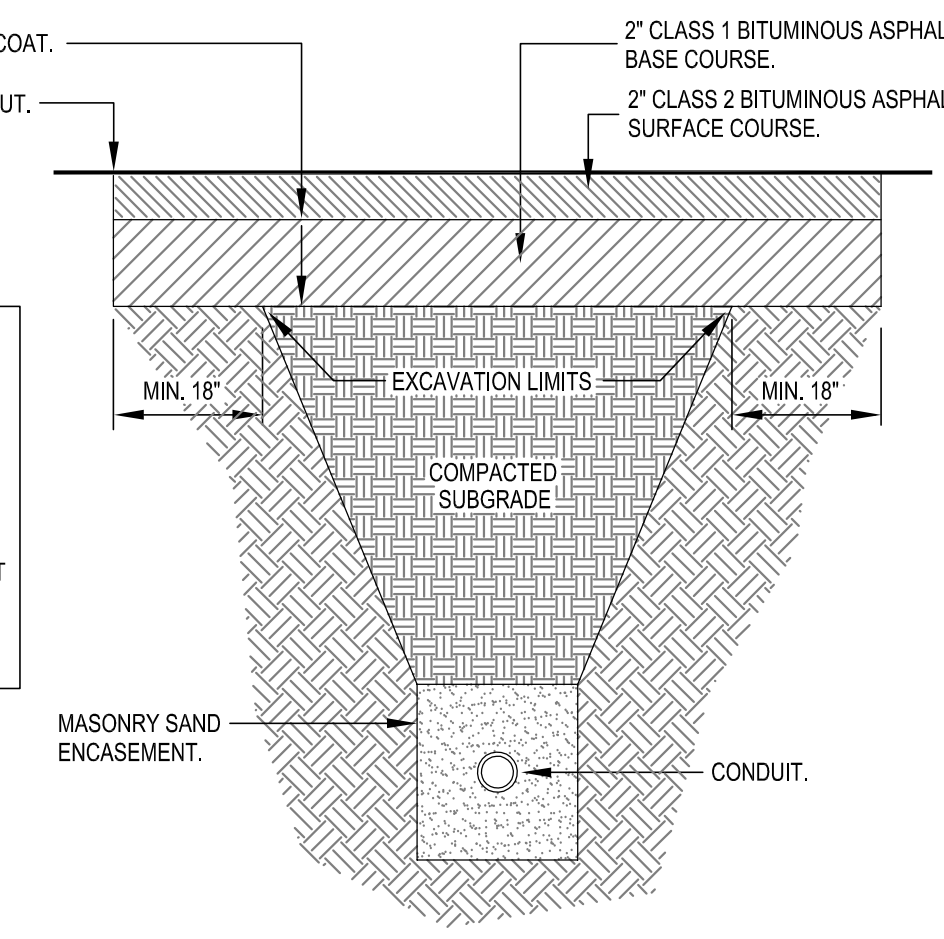
TITLE
PEDESTRIAN
BRIDGE LIGHTING
PLAN AND LIGHT
FIXTURE
SCHEDULE

DATE 4/2/2025
REV 5/21/2025

DWG. NO.

SE.7

- BITUMINOUS PAVEMENT REPAIR NOTES:**
- 1- SAW CUT EDGES MUST BE STRAIGHT AND CLEAN.
 - 2- PATCHES MUST BE REGULAR, SQUARE OR RECTANGULAR WITH (4 STRAIGHT SIDES).
 - 3- FINAL SURFACE COURSE MUST BE FLUSH WITH THE EDGE OF EXISTING PAVEMENT, VERTICALLY AND HORIZONTALLY, WITH NO SPILLOVER OF ASPHALT OR TACK COAT.
 - 4- CARE MUST BE TAKEN NOT TO DAMAGE INTEGRITY OR APPEARANCE OF SURROUNDING PAVEMENT. IF DAMAGED, THE ENTIRE SURFACE PATCH MUST BE EXPANDED TO COVER DAMAGE.
 - 5- SEAL EDGES WHERE NEW PAVEMENT ABUTS EXISTING WITH CT DOT LIQUID EMULSION HOT ASPHALT TACK COAT.



7 BITUMINOUS PAVEMENT REPAIR DETAIL

PANEL #SLP1 - SQUARE D TYPE NO. SURFACE NEMA 1, 120/208V, 1-PHASE, 3 WIRE, 60 AMP MAIN CB, S.E. RATED, 10K A.I.C. MIN.

CKT	TRIP	POLE	REMARKS	CKT	TRIP	POLE	REMARKS
1	20	1	POINT SOURCE LIGHTS	2	20	1	TOE RAIL LIGHTS
3	20	1	TIME CLOCK	4	20	1	TOE RAIL LIGHTS
5	20	1	ESE LT. & RECEP.	6	20	1	SPARE
7	20	1	SPARE	8	20	1	SPARE
9	20	2	FUTURE TRAIL LIGHTING	10	20	2	FUTURE TRAIL LIGHTING
11	-	-	-	12	-	-	-
13	-	-	BLANK SPACE	14	-	-	BLANK SPACE
15	-	-	BLANK SPACE	16	-	-	BLANK SPACE
17	-	-	BLANK SPACE	18	-	-	BLANK SPACE

- NOTES:
- 1) PROVIDE WITH HEAT RATED TIN PLATED COPPER BUS BARS AND AL/CU GROUND BAR.
 - 2) PROVIDE WITH BLACK FACE, WHITE CORE ENGRAVED NAMEPLATE.
 - 3) PROVIDE CIRCUIT DIRECTORY POUCH.
 - 4) PROVIDE WITH TYPE WRITTEN CIRCUIT DIRECTORY REPRESENTING CIRCUITS AS ACTUALLY CONNECTED TO PANEL.
 - 5) CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.

PANEL #SLP2 - SQUARE D TYPE NO. SURFACE NEMA 1, 120/240V, 1-PHASE, 3 WIRE, 60 AMP MAIN CB, S.E. RATED, 10K A.I.C. MIN.

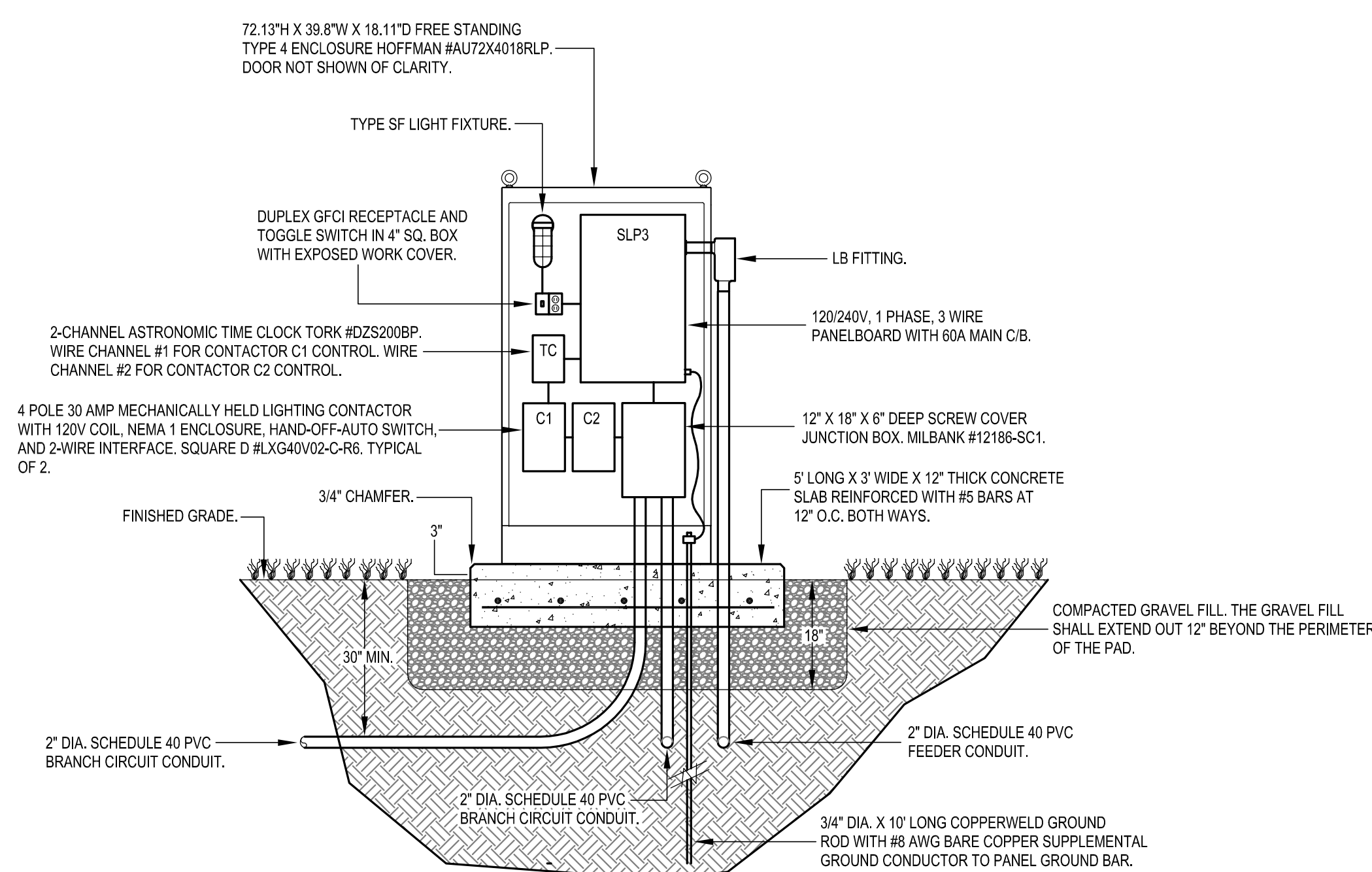
CKT	TRIP	POLE	REMARKS	CKT	TRIP	POLE	REMARKS
1	20	2	TRAIL LIGHTING	2	20	2	TRAIL LIGHTING
3	-	-	-	4	-	-	-
5	20	2	TRAIL LIGHTING	6	20	2	TRAIL LIGHTING
7	-	-	-	8	-	-	-
9	20	1	ESE LT. & RECEP.	10	20	1	TIME CLOCK
11	20	1	SPARE	12	20	1	SPARE
13	20	1	SPARE	14	20	1	SPARE
15	-	-	BLANK SPACE	16	-	-	BLANK SPACE
17	-	-	BLANK SPACE	18	-	-	BLANK SPACE

- NOTES:
- 1) PROVIDE WITH HEAT RATED TIN PLATED COPPER BUS BARS AND AL/CU GROUND BAR.
 - 2) PROVIDE WITH BLACK FACE, WHITE CORE ENGRAVED NAMEPLATE.
 - 3) PROVIDE CIRCUIT DIRECTORY POUCH.
 - 4) PROVIDE WITH TYPE WRITTEN CIRCUIT DIRECTORY REPRESENTING CIRCUITS AS ACTUALLY CONNECTED TO PANEL.
 - 5) CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.

PANEL #SLP3 - SQUARE D TYPE NO. SURFACE NEMA 1, 120/240V, 1-PHASE, 3 WIRE, 60 AMP MAIN CB, S.E. RATED, 10K A.I.C. MIN.

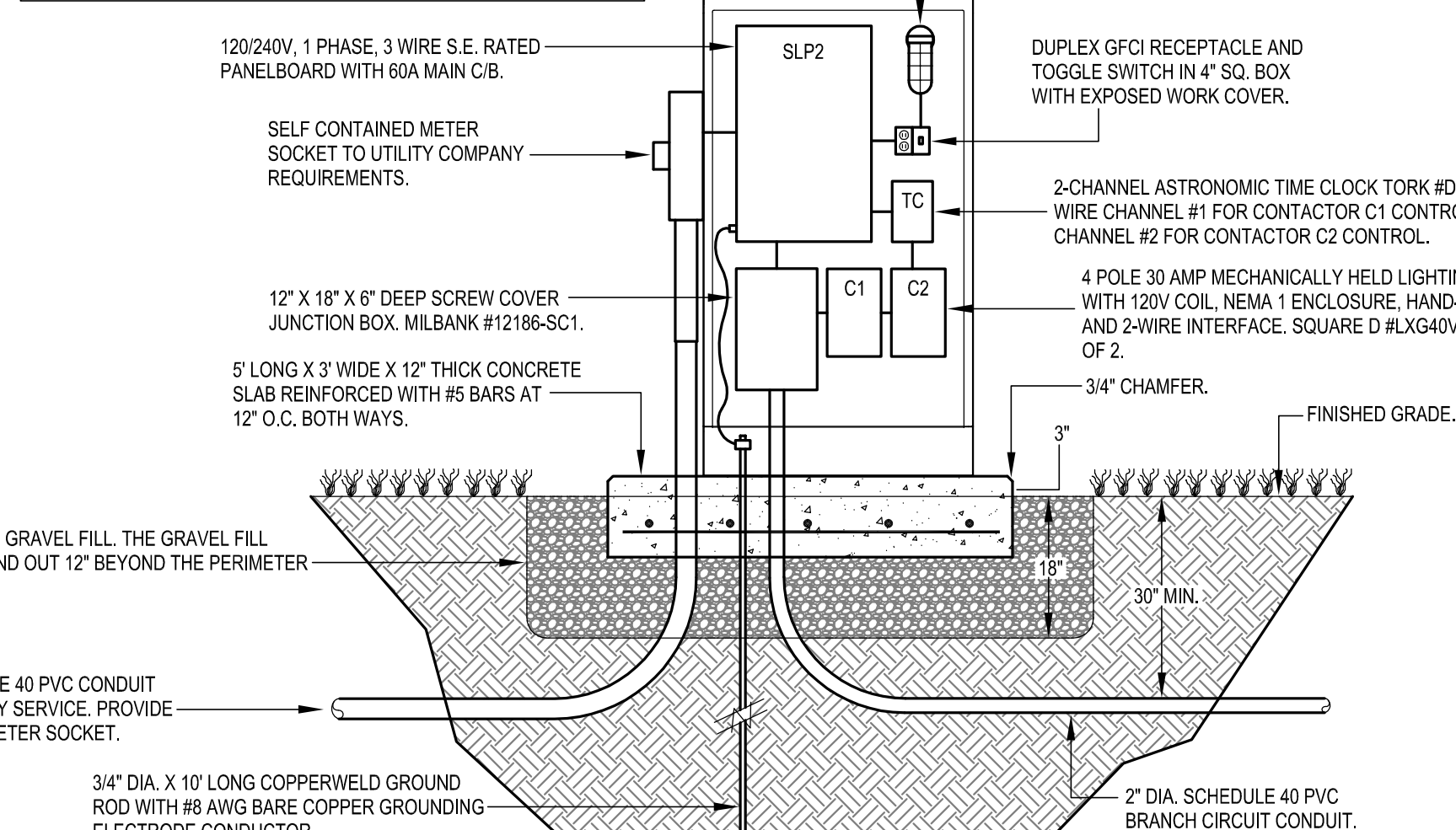
CKT	TRIP	POLE	REMARKS	CKT	TRIP	POLE	REMARKS
1	20	2	TRAIL LIGHTING	2	20	2	TRAIL LIGHTING
3	-	-	-	4	-	-	-
5	20	2	TRAIL LIGHTING	6	20	2	TRAIL LIGHTING
7	-	-	-	8	-	-	-
9	20	1	ESE LT. & RECEP.	10	20	1	TIME CLOCK
11	20	1	SPARE	12	20	1	SPARE
13	20	1	SPARE	14	20	1	SPARE
15	-	-	BLANK SPACE	16	-	-	BLANK SPACE
17	-	-	BLANK SPACE	18	-	-	BLANK SPACE

- NOTES:
- 1) PROVIDE WITH HEAT RATED TIN PLATED COPPER BUS BARS AND AL/CU GROUND BAR.
 - 2) PROVIDE WITH BLACK FACE, WHITE CORE ENGRAVED NAMEPLATE.
 - 3) PROVIDE CIRCUIT DIRECTORY POUCH.
 - 4) PROVIDE WITH TYPE WRITTEN CIRCUIT DIRECTORY REPRESENTING CIRCUITS AS ACTUALLY CONNECTED TO PANEL.
 - 5) CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.



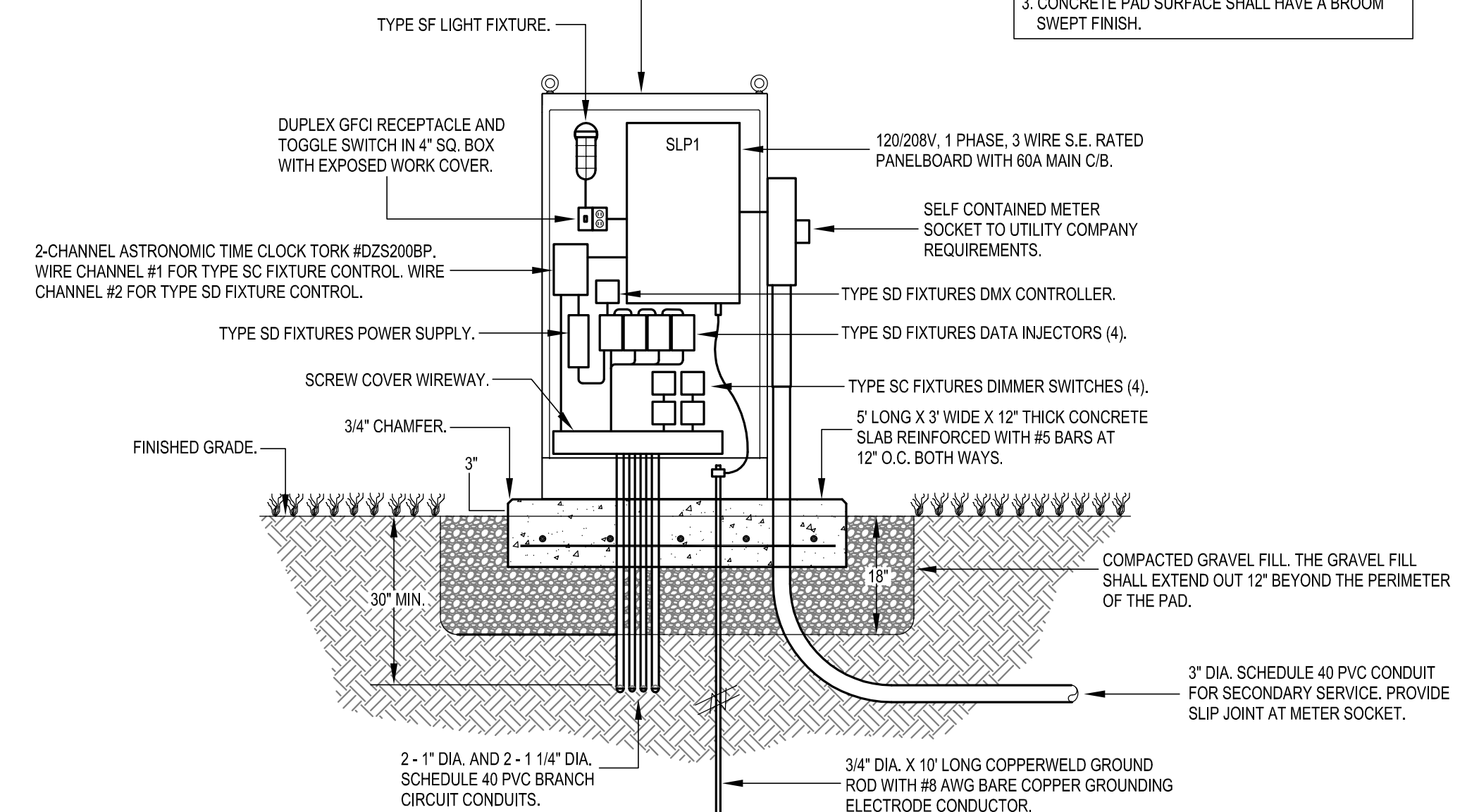
3 ELECTRIC SERVICE ENCLOSURE ESE3 DETAIL

- LIGHTING CONTROL AND WIRING NOTES FOR ESE2 AND ESE3**
1. WIRE BRANCH CIRCUITS SLP#1.3 AND SLP#6.7 THROUGH CONTACTOR C1 FOR TIME CLOCK CHANNEL #1 CONTROL.
 2. WIRE BRANCH CIRCUITS SLP#2.4 AND SLP#8.8 THROUGH CONTACTOR C2 FOR TIME CLOCK CHANNEL #2 CONTROL.
 3. PROVIDE INITIAL TIME CLOCK SETTINGS OF 5:00 PM ON/12:00 AM OFF FOR CHANNEL #1 AND 5:00 PM ON/7:00 AM OFF FOR CHANNEL #2. INCLUDE IN THE BID FOR RETURNING TO THE SITE AFTER THE CONCLUSION OF WORK AND RESETTING THE TIME CLOCKS AS DIRECTED BY THE OWNER.
 4. THE CONDUCTOR SIZE FROM THE SITE LIGHTING BRANCH CIRCUIT BREAKERS THROUGH THE CONTACTORS SHALL BE #6 AWG. PROVIDE SPLICE CONNECTIONS TO #2 AWG CONDUCTORS INSIDE THE ESE JUNCTION BOX.

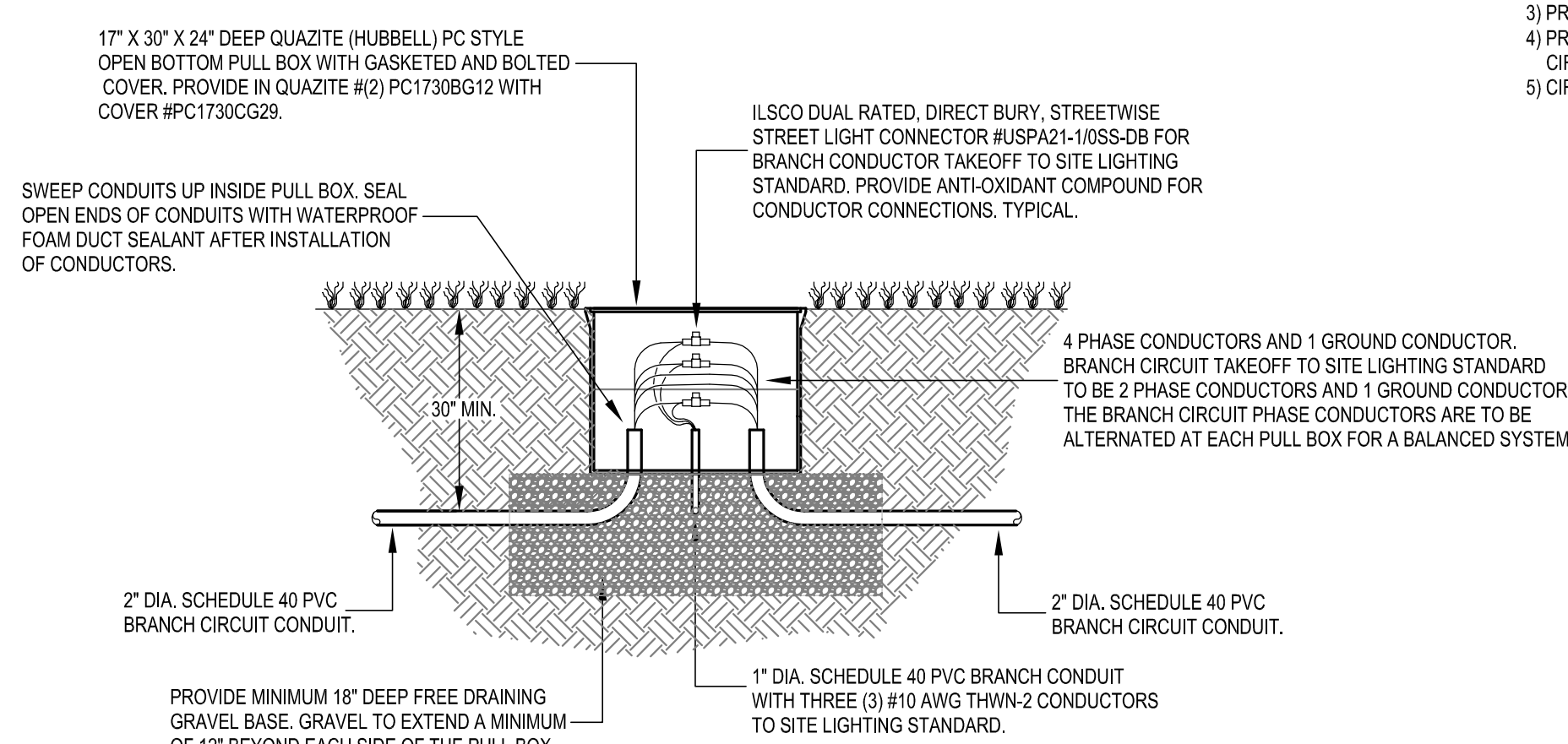


2 ELECTRIC SERVICE ENCLOSURE ESE2 DETAIL

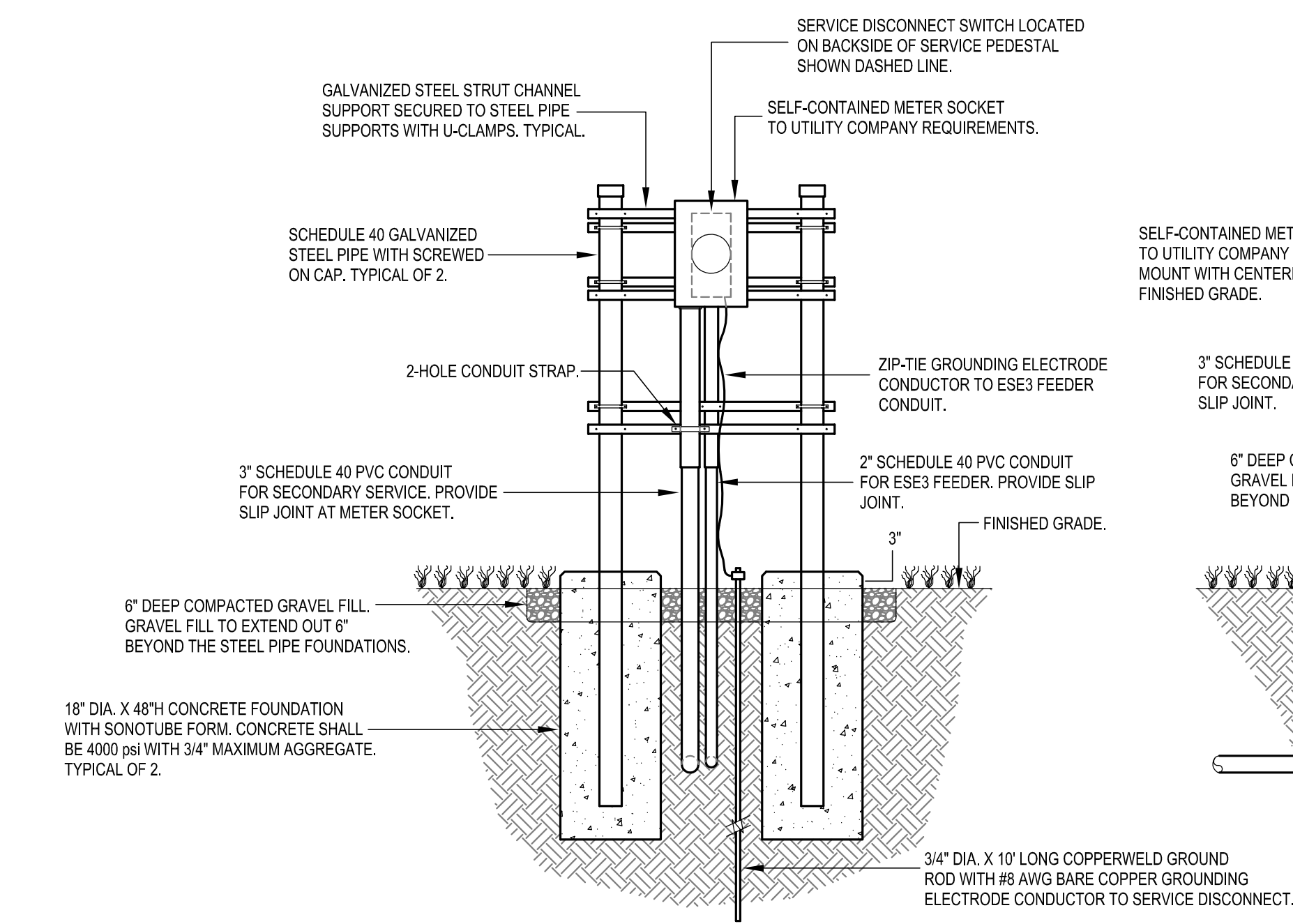
- CONCRETE PAD NOTES:**
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. MAXIMUM AGGREGATE SHALL BE 3/4" CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.5.
 2. CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
 3. CONCRETE PAD SURFACE SHALL HAVE A BROOM SWEEP FINISH.



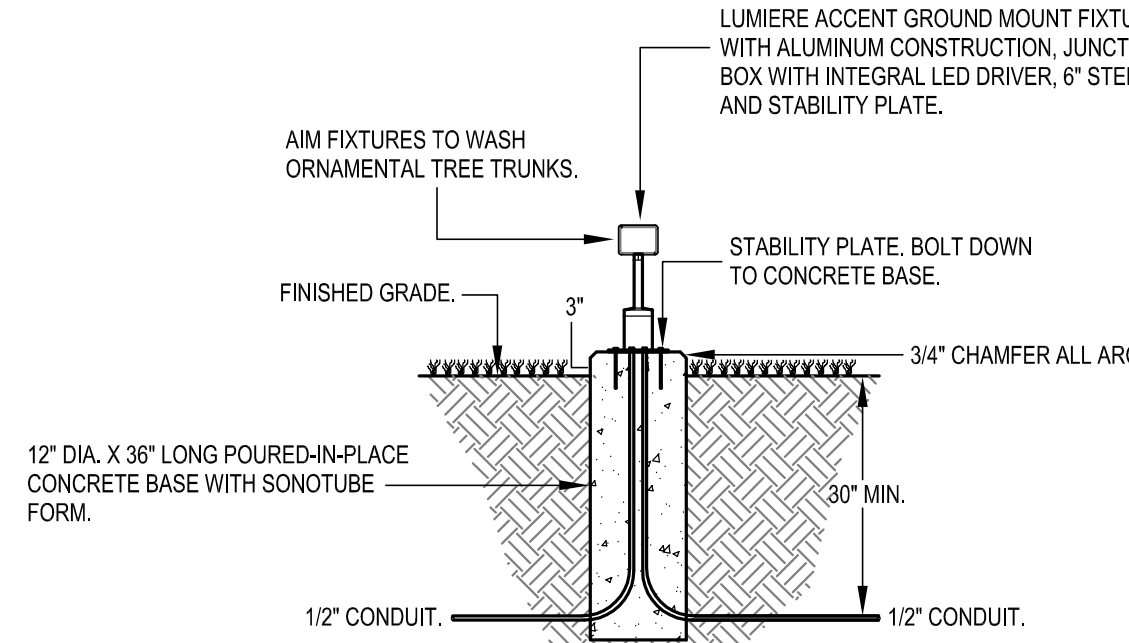
1 ELECTRIC SERVICE ENCLOSURE ESE1 DETAIL



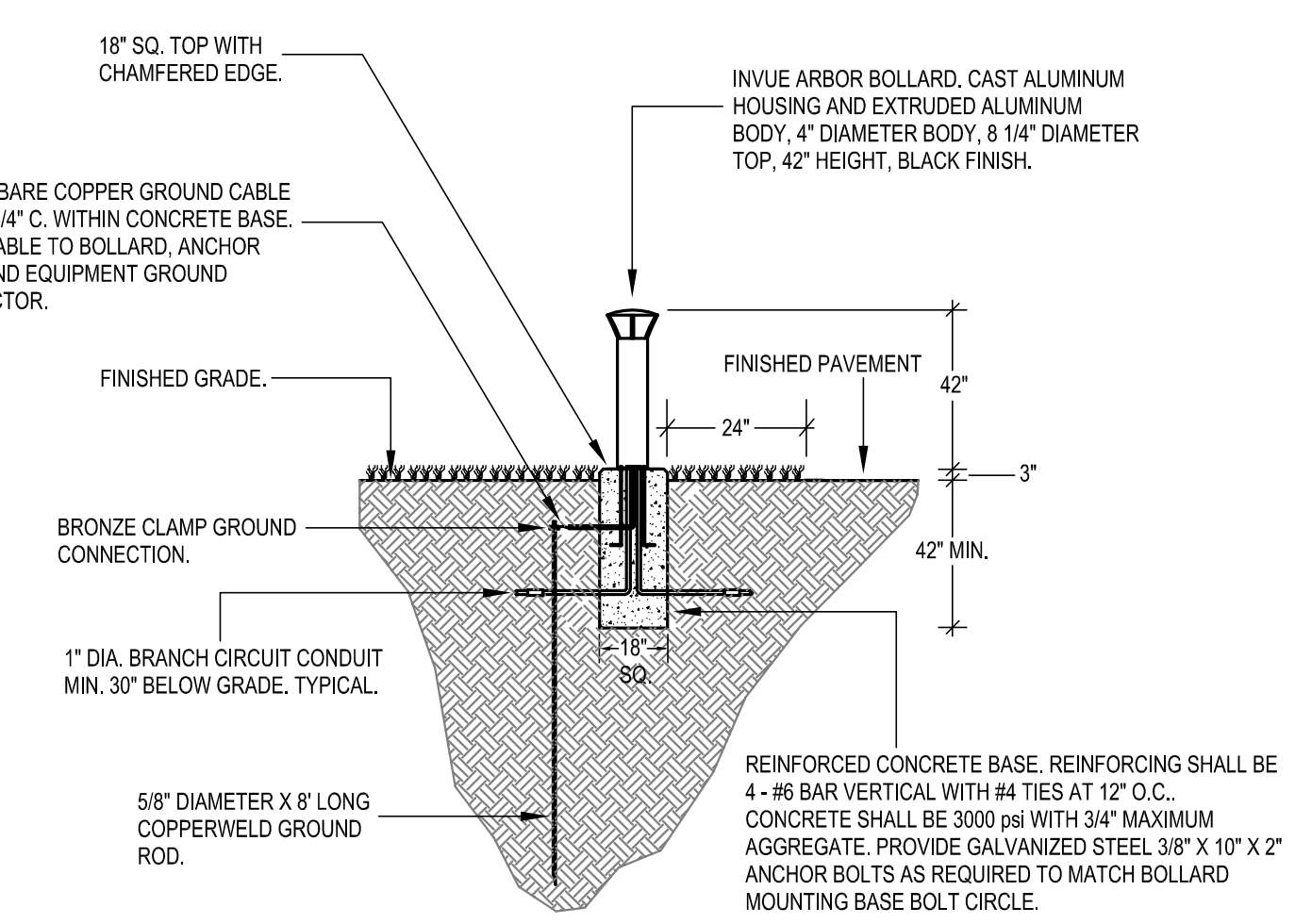
5 PULL BOX DETAIL



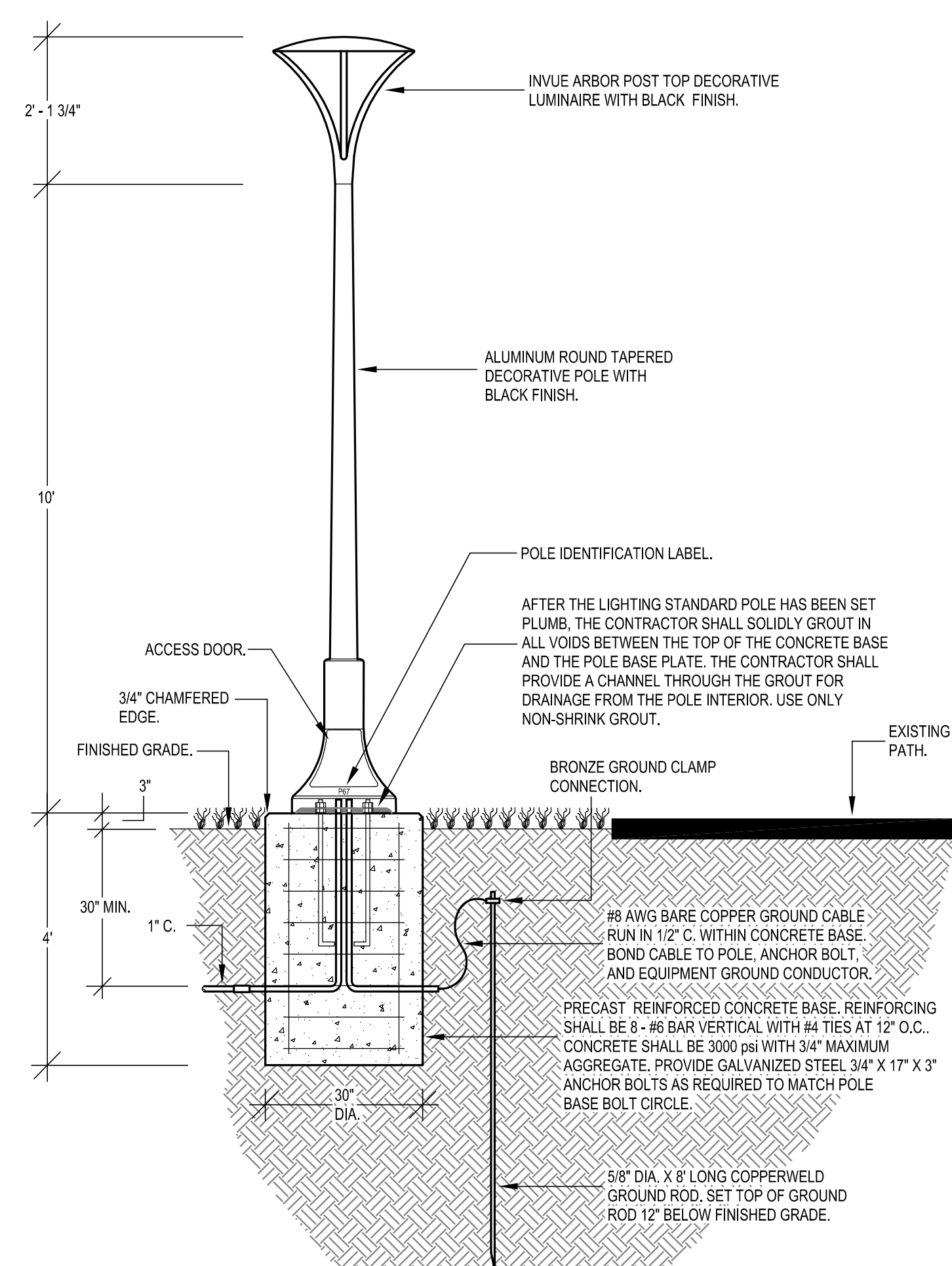
4 METER PEDESTAL DETAIL



10 SITE LIGHTING STANDARD DETAIL - TYPE SE



9 SITE LIGHTING STANDARD DETAIL - TYPE SB



8 SITE LIGHTING STANDARD DETAIL - TYPE SA