

City of Portsmouth, New Hampshire

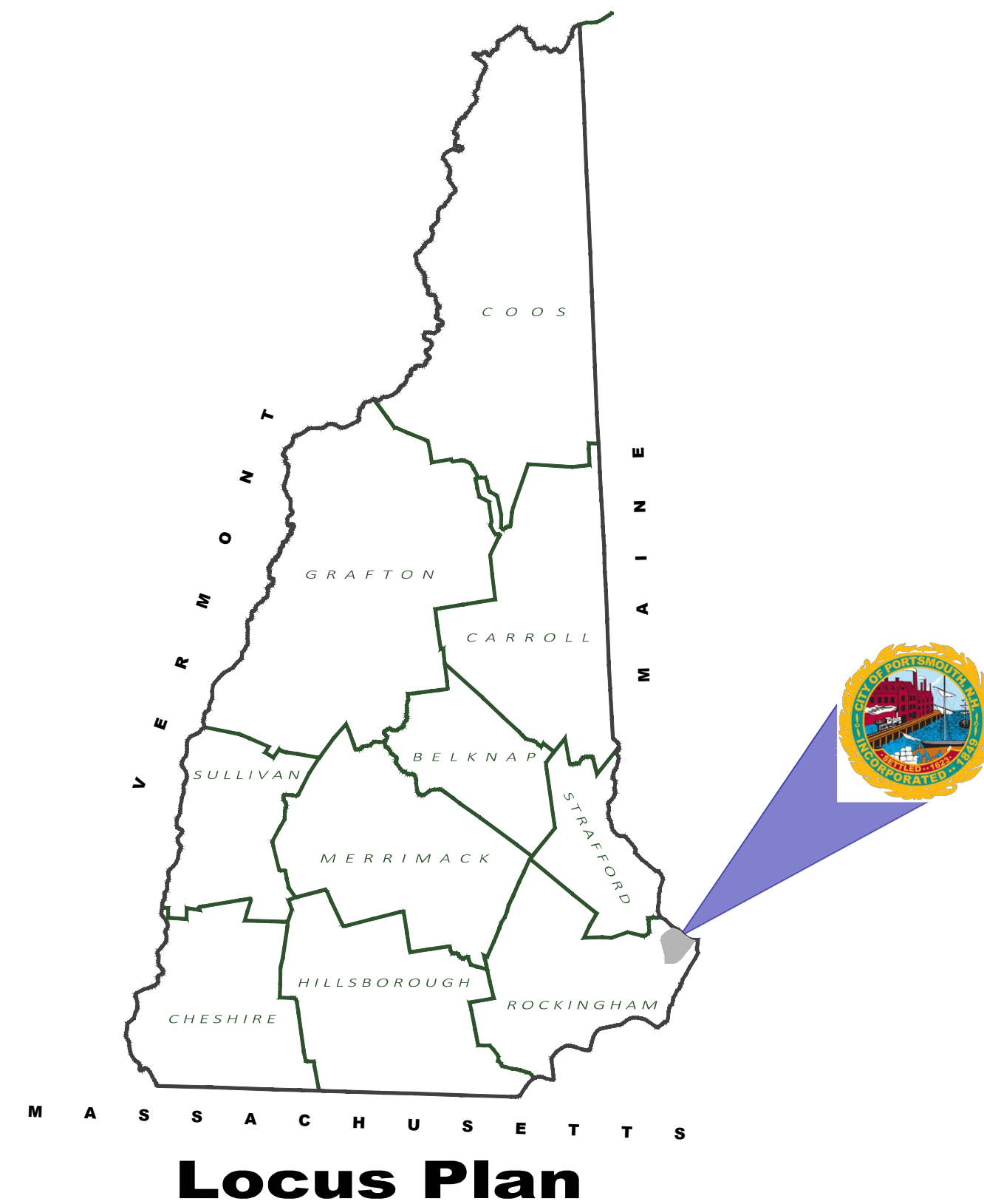
Department of Public Works

Community Fields Lighting

Issued for Construction - NOVEMBER 2021

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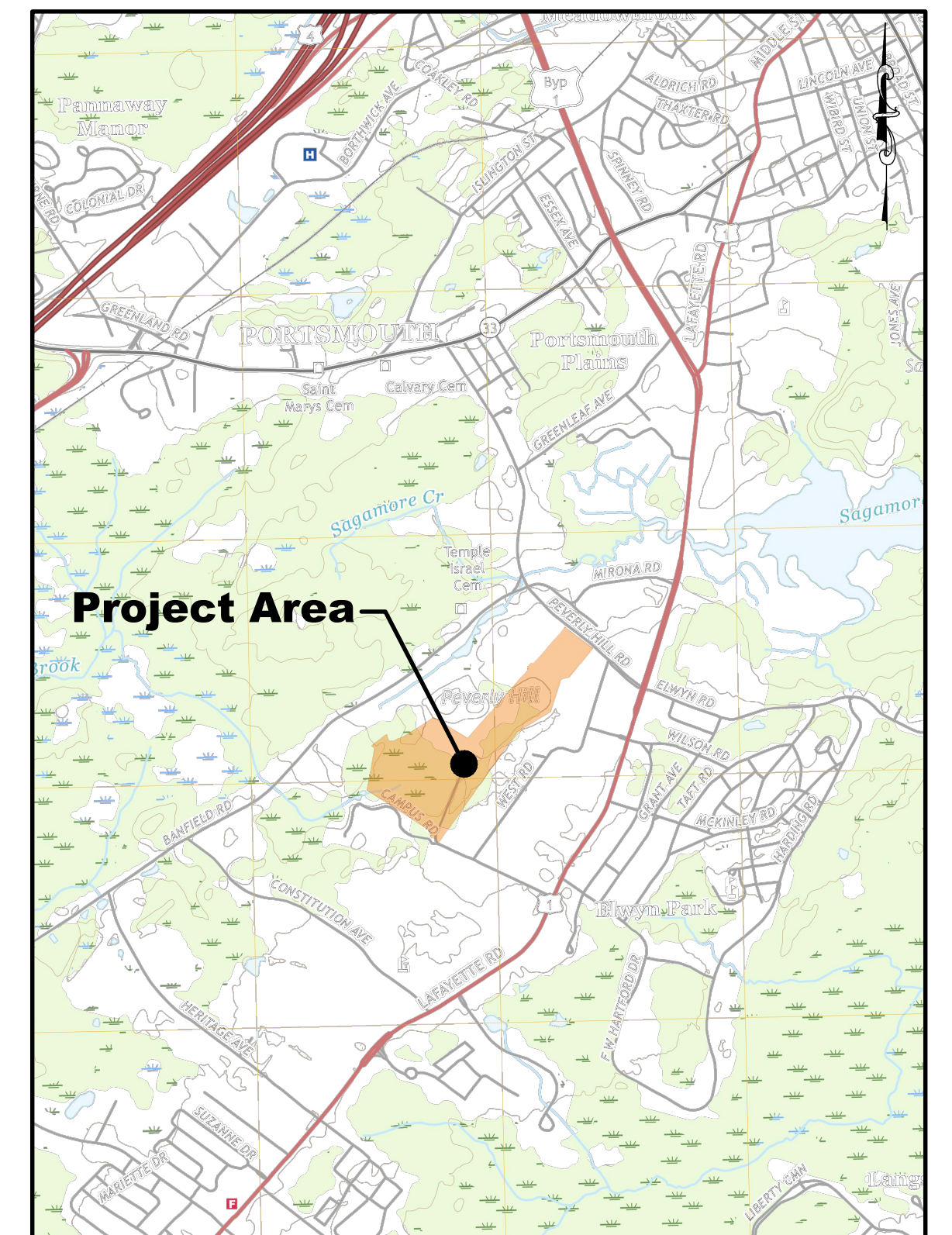
Civil	Cover Sheet
L101	Site Plan
EL100	Electrical Legend and Details
EL101	Electrical Site Plan Revised
EL102-103	Electrical Details
EL104	Electrical Schedules



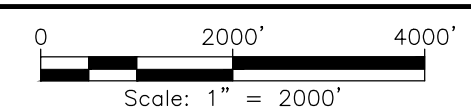
Prepared For:
City of Portsmouth
Department of Public Works
680 Peverly Hill Road
Portsmouth, New Hampshire 03801
 Prepared By:

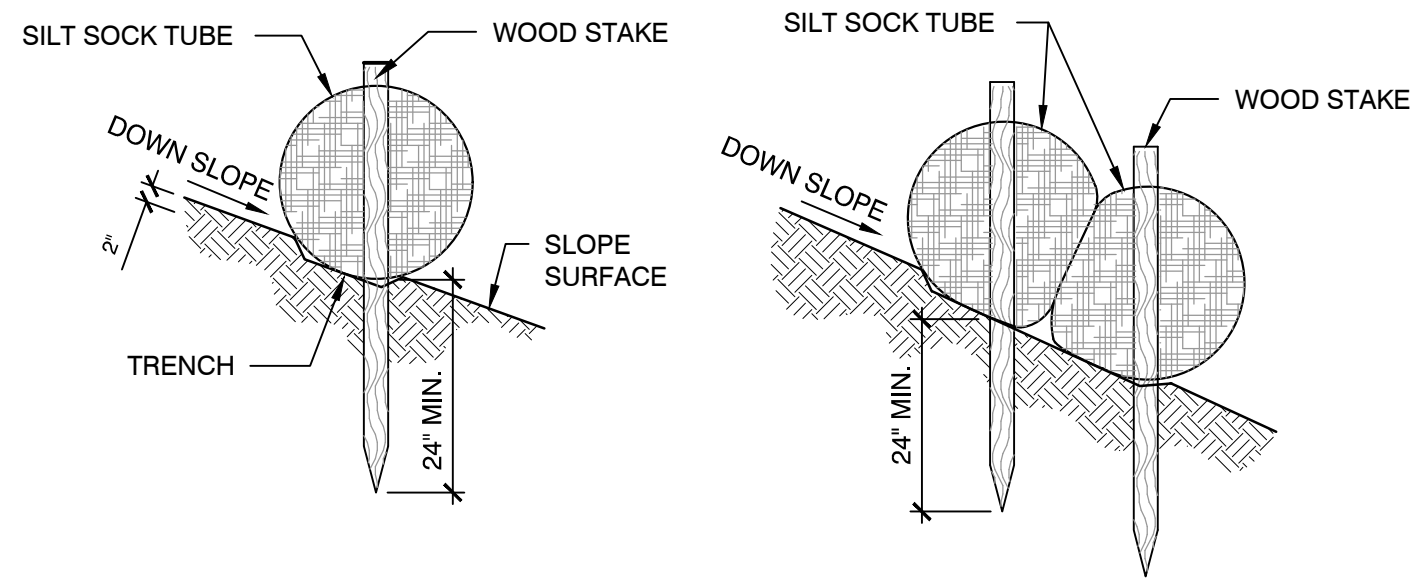
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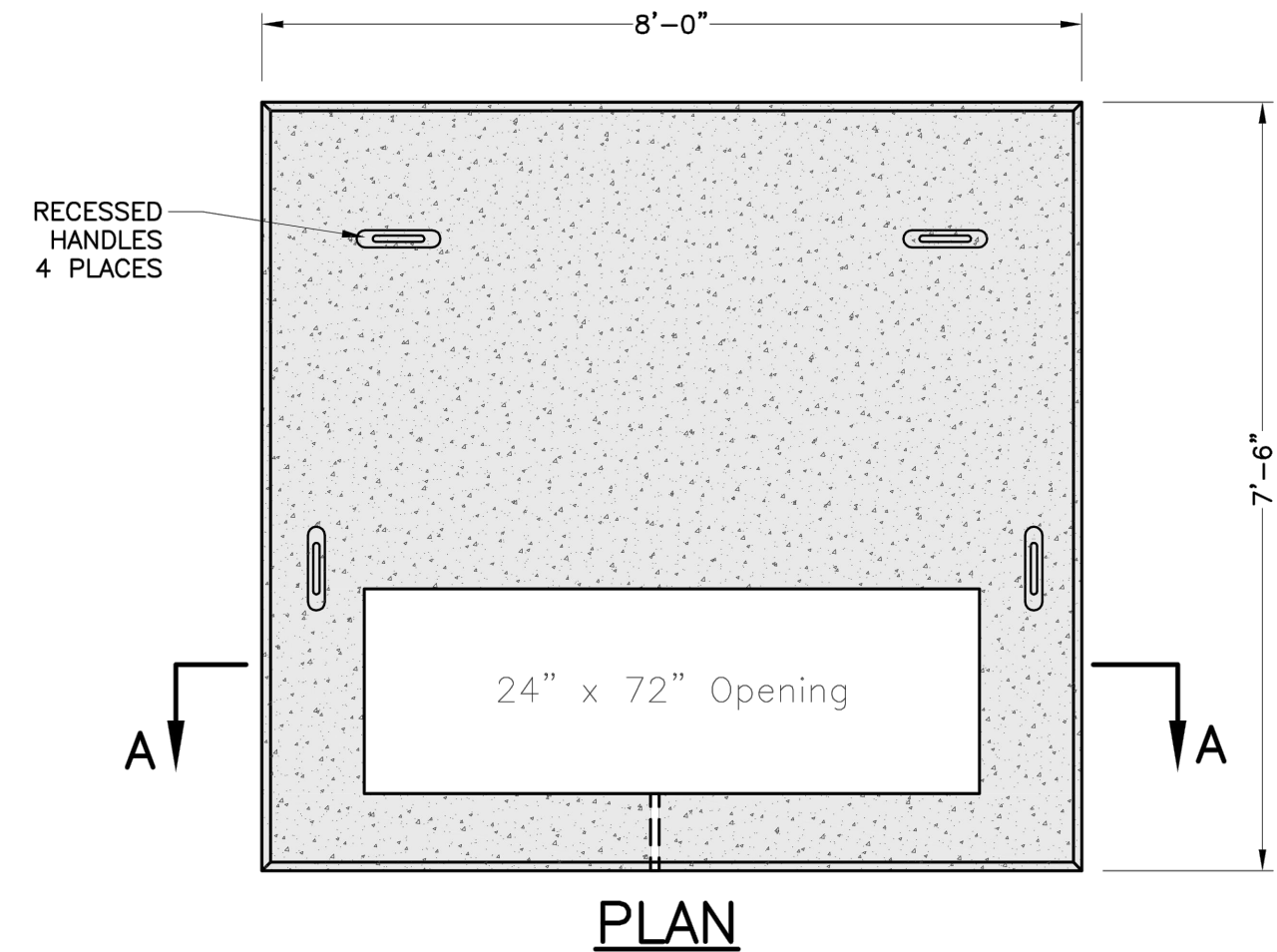


Project Location

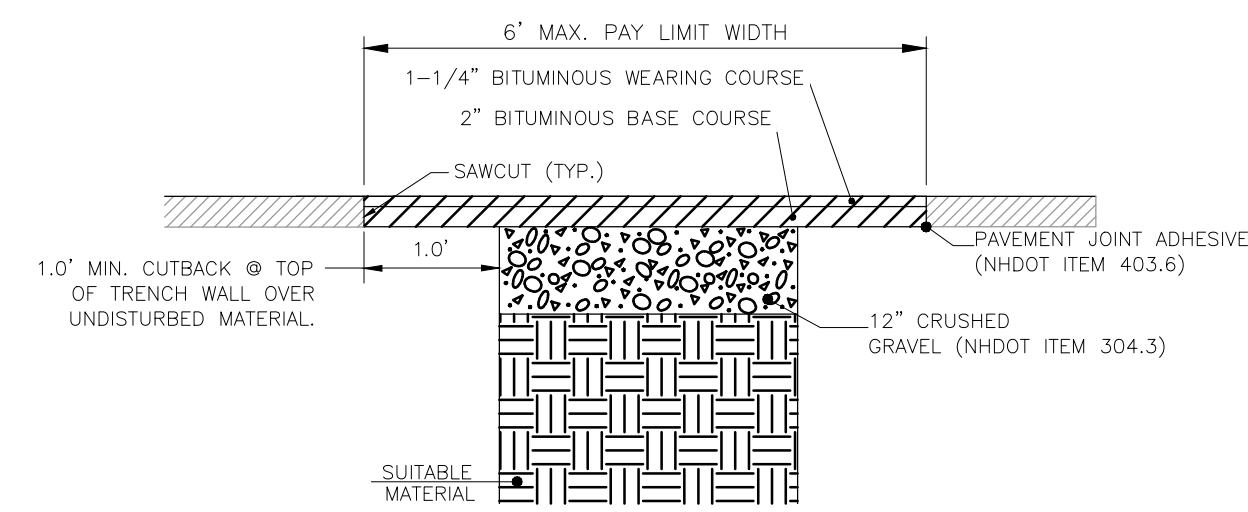




1 SILT SOCK EROSION CONTROL
SCALE: N.T.S.



2 TRANSFORMER PAD
SCALE: N.T.S.

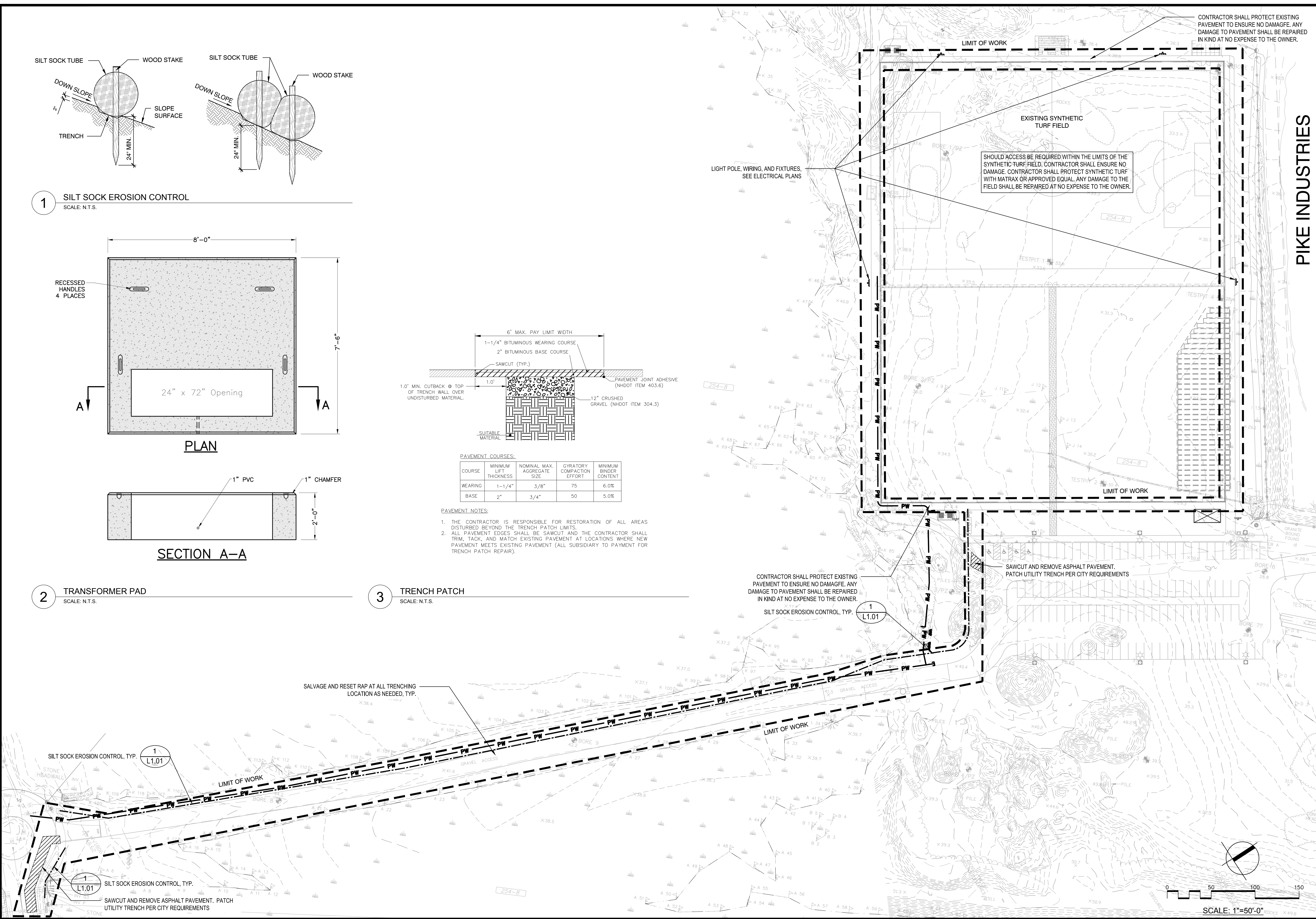


PAVEMENT COURSES:

COURSE	MINIMUM LIFT THICKNESS	NOMINAL MAX. AGGREGATE SIZE	GYRATORY COMPACTION EFFORT	MINIMUM BINDER CONTENT
WEARING	1-1/4"	3/8"	75	6.0%
BASE	2"	3/4"	50	5.0%

- PAVEMENT NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL AREAS DISTURBED BEYOND THE TRENCH PATCH LIMITS.
 2. ALL PAVEMENT EDGES SHALL BE SAWCUT AND THE CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT (ALL SUBSIDIARY TO PAYMENT FOR TRENCH PATCH REPAIR).

3 TRENCH PATCH
SCALE: N.T.S.



PIKE INDUSTRIES

no.	revision	date	by

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designed by:	drawn by:	approved by:
date: NOV. 18, 2021	project no.:	file name: Aed At B.dwg
scale:		

City of Portsmouth, New Hampshire
Department of Public Works
Multi-purpose Recreation Fields
680 Peverly Hill Road
Recreation Fields
SITE PLAN

drawing no.
L1.01

sheet: - of -

GENERAL ELECTRICAL NOTES :

- DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION, MOUNTING HEIGHTS, SIZE OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
- WORK SHALL CONFORM TO THE NEW HAMPSHIRE ELECTRICAL CODE AND NEW HAMPSHIRE BUILDING CODE AND REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
- THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, INSURANCE AND TESTS, AND SHALL PROVIDE LABOR AND MATERIAL TO COMPLETE THE ELECTRICAL WORK SHOWN.
- CONTRACTOR SHALL PAY ELECTRIC UTILITY COMPANY BACKCHARGES AND PROVIDE COORDINATION WITH SAME.
- EXCEPT AS OTHERWISE NOTED, THE ELECTRICAL WORK SHALL INCLUDE PANELBOARDS, CIRCUIT BREAKERS, FEEDERS, WIRING, RACEWAYS, LIGHTING FIXTURES, DEVICES, SAFETY SWITCHES, MOUNTING AND WIRING, TRANSFORMERS AND CONNECTIONS NECESSARY TO OPERATE ALL EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY LIGHTING AND POWER AND PAY ALL ENERGY CHARGES.
- DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK NEAT, CLEAN AND ORDERLY.
- ALL SYSTEMS SHALL BE TESTED FOR SHORT CIRCUIT AND GROUNDS PRIOR TO ENERGIZING AND ANY DEFECTS SHALL BE CORRECTED.
- ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE INCLUDED AS PART OF THIS SECTION.
- COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ELECTRICAL EQUIPMENT. WHERE SPECIFIED, ELECTRICAL EQUIPMENT IS SUBSTITUTED. THE ELECTRICAL CONTRACTOR SHALL SUBMIT COMPLETE SPECIFICATIONS ON THE SUBSTITUTE AS WELL AS THE ITEM ORIGINALLY SPECIFIED.
- MATERIALS SHALL BE SPECIFICATION GRADE AND UL LISTED.
- WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTIONS OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
- WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES TO ELIMINATE INTERFERENCES.
- ELECTRICAL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF WHICH SYSTEM IS PUT INTO SERVICE UNLESS OTHERWISE SPECIFIED.
- WORK SHALL BE GROUNDED IN ACCORDANCE WITH CODE REQUIREMENTS. COMPLETE EQUIPMENT (INSULATED GREEN WIRE) GROUNDING SYSTEM SHALL BE INSTALLED.
- WIRE SHALL BE TYPE "THHN/THWN" INSULATED FOR 600 VOLTS, MINIMUM SIZE #12 AWG COPPER UNLESS SPECIFICALLY NOTED OTHERWISE.
- WIRING METHODS:
 - EXTERIOR BELOW GRADE DIRECT BURIED WIRING SHALL BE IN SCHEDULE 80 PVC.
 - EXTERIOR BELOW GRADE CONCRETE ENCASED WIRING SHALL BE IN SCHEDULE 40 PVC
 - EXTERIOR ABOVE GROUND WIRING SHALL BE IN RIGID STEEL CONDUIT
 - INTERIOR WIRING SHALL BE IN RIGID STEEL CONDUIT.
- PANELBOARDS SHALL BE DEAD FRONT, THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKER TYPE, DESIGNED FOR SURFACE MOUNTING AS INDICATED ON PLAN, AND HAVING CONNECTIONS TO 480/277 VOLT, 3-PHASE, 4-WIRE AND 120/208 VOLT, 3 PHASE, 4 WIRE SERVICE. ALL BUS BARS SHALL BE COPPER. CABINETS SHALL BE MADE OF CODE GAUGE GALVANIZED SHEET STEEL, WITH A MINIMUM OF 4 INCH GUTTERS, DOOR IN DOOR CONSTRUCTION, LOCKED DOOR, AND FLUSH HINGES. TYPEWRITTEN INDEX SHALL BE MOUNTED ON DOOR INSIDE TRANSPARENT COVER INDICATING LOAD SERVED. PANELS SHALL INCLUDE SEPARATE EQUIPMENT GROUND BUS.
- CONDUIT RUNS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC ONLY; EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD.
- CONTRACTOR SHALL CHECK EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO BIDDING. DIMENSIONS RELEVANT TO EXISTING WORK SHALL BE VERIFIED IN THE FIELD.
- PROVIDE AS-BUILT "CADD" DRAWINGS AT THE COMPLETION OF THE PROJECT.

ABBREVIATIONS

A	AMPERE	NTS	NOT TO SCALE
AF	AMPERE FRAME	PNL	PANELBOARD
AC	ALTERNATING CURRENT	PH	PHASE
AT	AMPERE TRIP	FL	FLOOR
ATS	AUTOMATIC TRANSFER SWITCH	FLA	FULL LOAD AMPERE
BKR	BREAKER	GC	GENERAL CONTRACTOR
C	CONDUIT	GFI	GROUND FAULT INTERRUPTER
CKT	CIRCUIT	GND	GROUND
CB	CIRCUIT BREAKER	IG	ISOLATED GROUND
EC	ELECTRICAL CONTRACTOR	JB	JUNCTION BOX
EMT	ELECTRIC METALLIC TUBING	KVA	KILOVOLT AMPERES
KW	KILOWATT	PVC	POLYVINYL CHLORIDE CONDUIT
MCB	MAIN CIRCUIT BREAKER	RSC	RIGID GALVANIZED STEEL CONDUIT
MLO	MAIN LUGS ONLY	MC	MECHANICAL CONTRACTOR
MTD	MOUNTED	XFMR	TRANSFORMER
MTG	MOUNTING	V	VOLTS
NMC	NON-METALLIC CONDUIT	W	WATTS OR WIRE
NA	NOT APPLICABLE	WP	WEATHERPROOF
NIC	NOT IN CONTRACT		

ELECTRICAL SYMBOL LIST

RECEPTACLES

- DUPLEX CONVENIENCE OUTLET RATED 20A, 125V, U-SLOT GROUNDED TYPE. ALL OTHER MOUNTING HEIGHTS SHALL BE AS NOTED ADJACENT TO THE SYMBOL. REFER TO RECEPTACLE ABBREVIATIONS FOR SPECIAL PURPOSE RECEPTACLES
- DUPLEX RECEPTACLE WITH INTERGRAL GROUND FAULT INTERRUPTER

RACEWAY AND WIRING

- HOMERUN TO PANELBOARD, NUMBER OF SLASH MARKS INDICATES NUMBER OF #12 AWG CONDUCTORS IN MINIMUM 3/4" CONDUIT. NO SLASH MARKS INDICATE 2#12 & 1#12G, 3/4" UNLESS NOTED OTHERWISE. -GREEN GROUND CONDUCTOR IS NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12 UNLESS INDICATED OTHERWISE. -HOMERUNS TO PANELBOARDS SHALL HAVE A MAXIMUM OF THREE PHASE CONDUCTORS (ONE PER PHASE) PLUS NEUTRAL AND GROUND CONDUCTOR IN EACH CONDUIT.
- EX. UNDERGROUND ELECTRIC LINE
NEW UNDERGROUND ELECTRIC LINE

MISCELLANEOUS

- JUNCTION BOX WITH BLANK COVERPLATE, SIZE AS REQUIRED BY N.E.C.
- CONTACTOR
- ELECTRIC UTILITY BILLING METER
- GROUND - SYSTEM AND/OR EQUIPMENT
- DIGITAL TIMER SWITCH

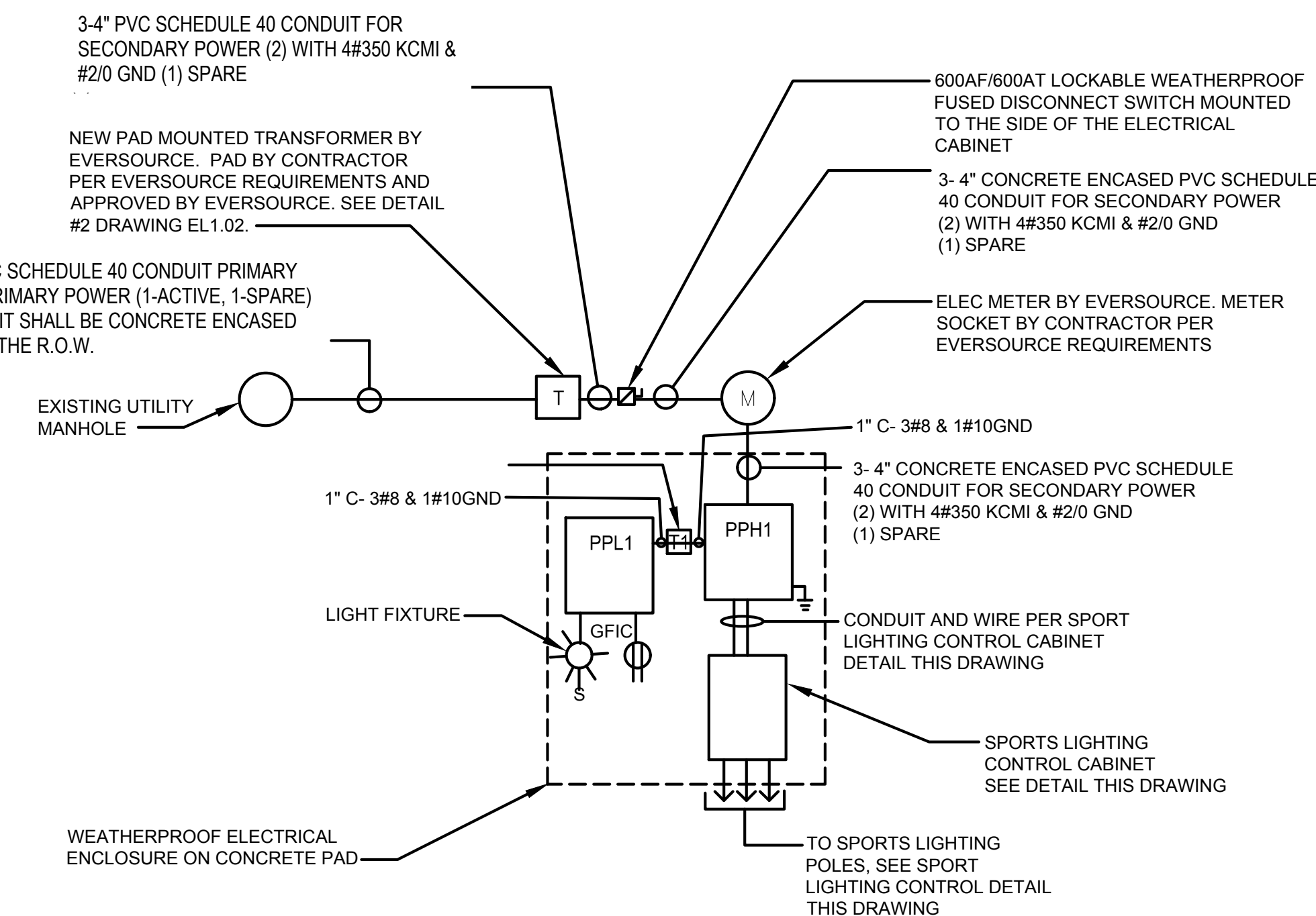
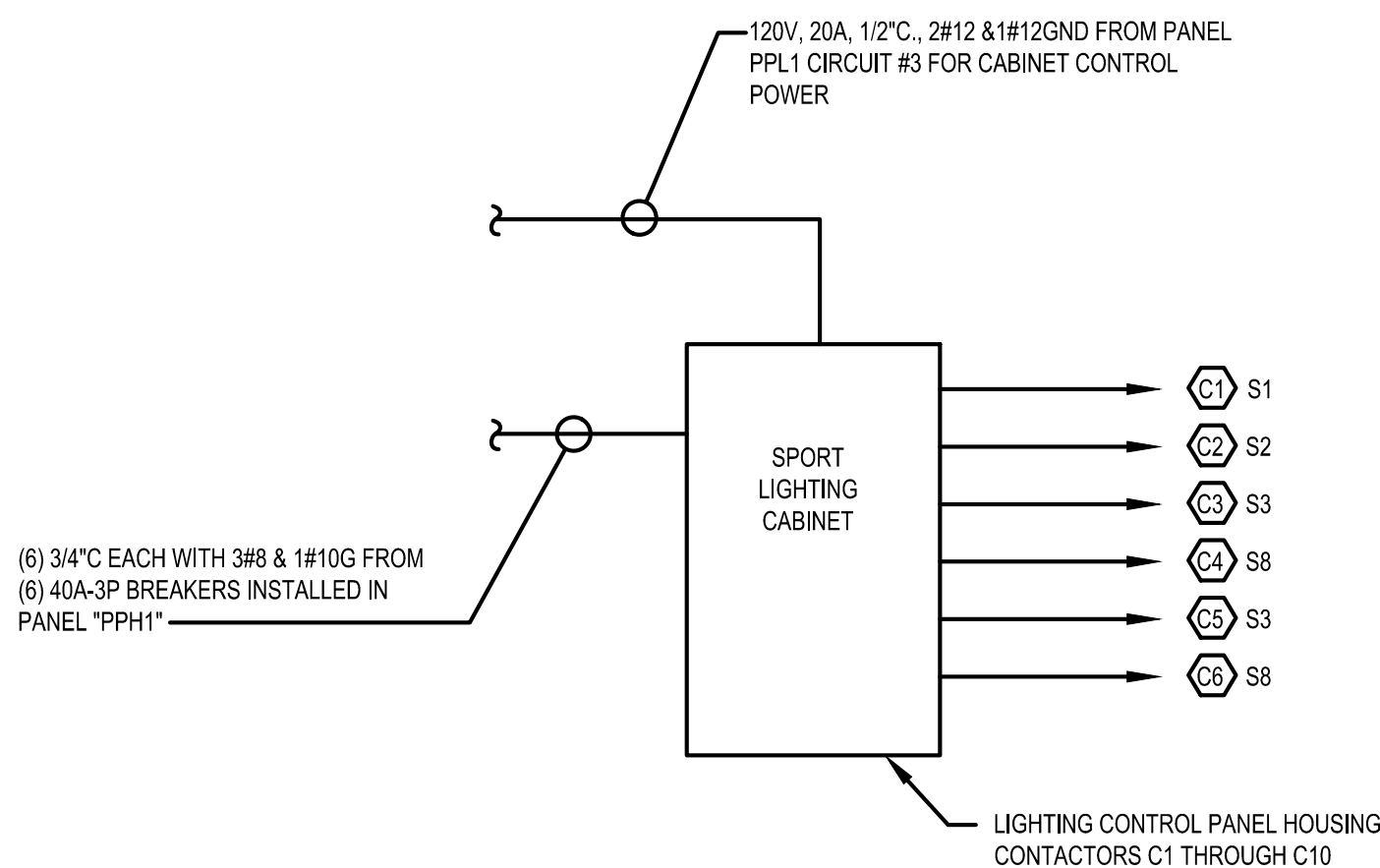
POWER DISTRIBUTION EQUIPMENT

- HAND HOLE

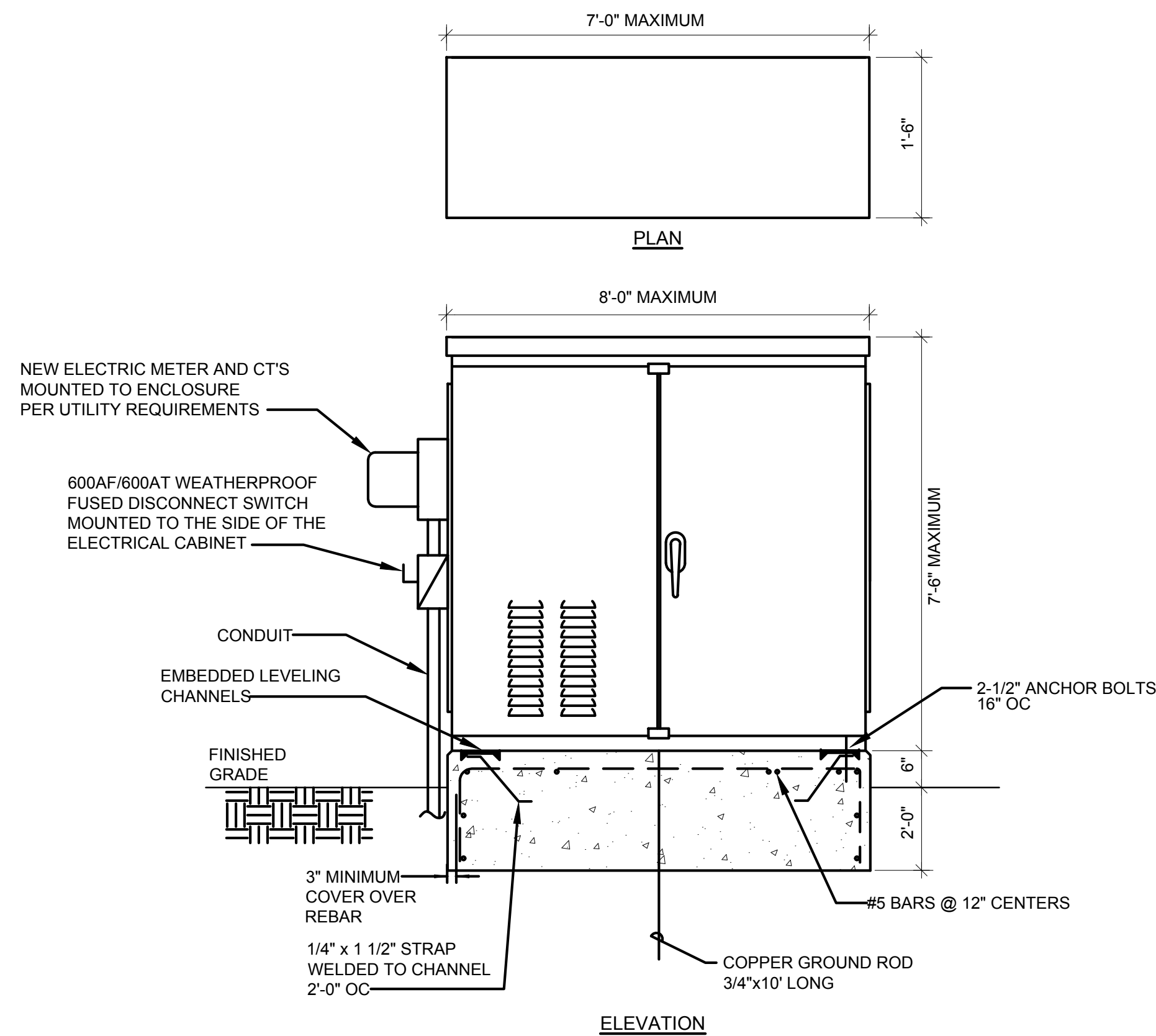
LIGHTING

- SPORTS LIGHT POLE - 'F1' INDICATES POLE NUMBER
 'C1' INDICATES CONTACTOR OR CONTRACTORS CONTROLLING POLE MOUNTED FIXTURES

FOOTBALL FIELD SPORTS LIGHTING CONTROL DIAGRAM
SCALE: N.T.S.



1 ONE LINE DIAGRAM
SCALE: N.T.S.

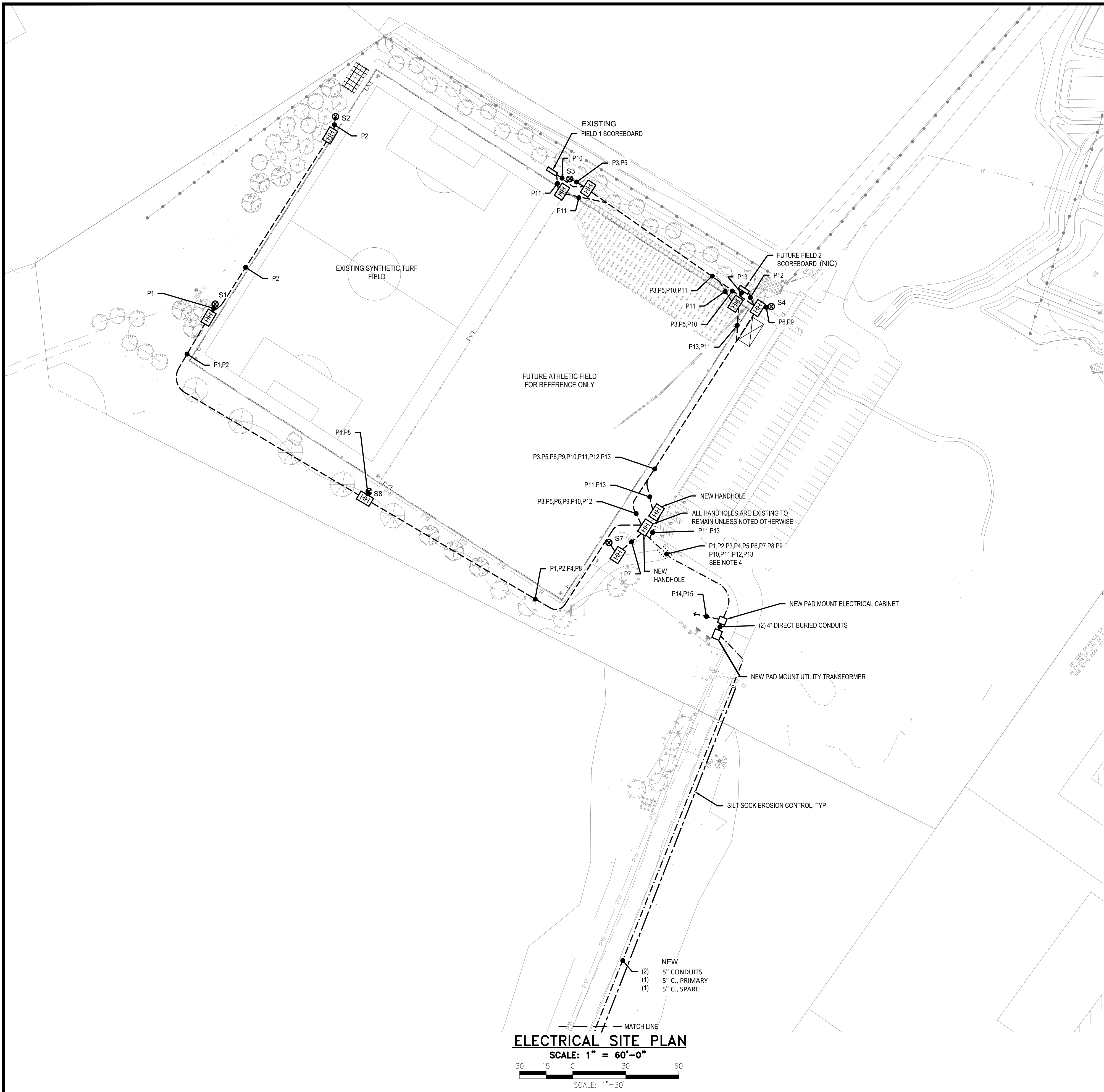


NOTES:

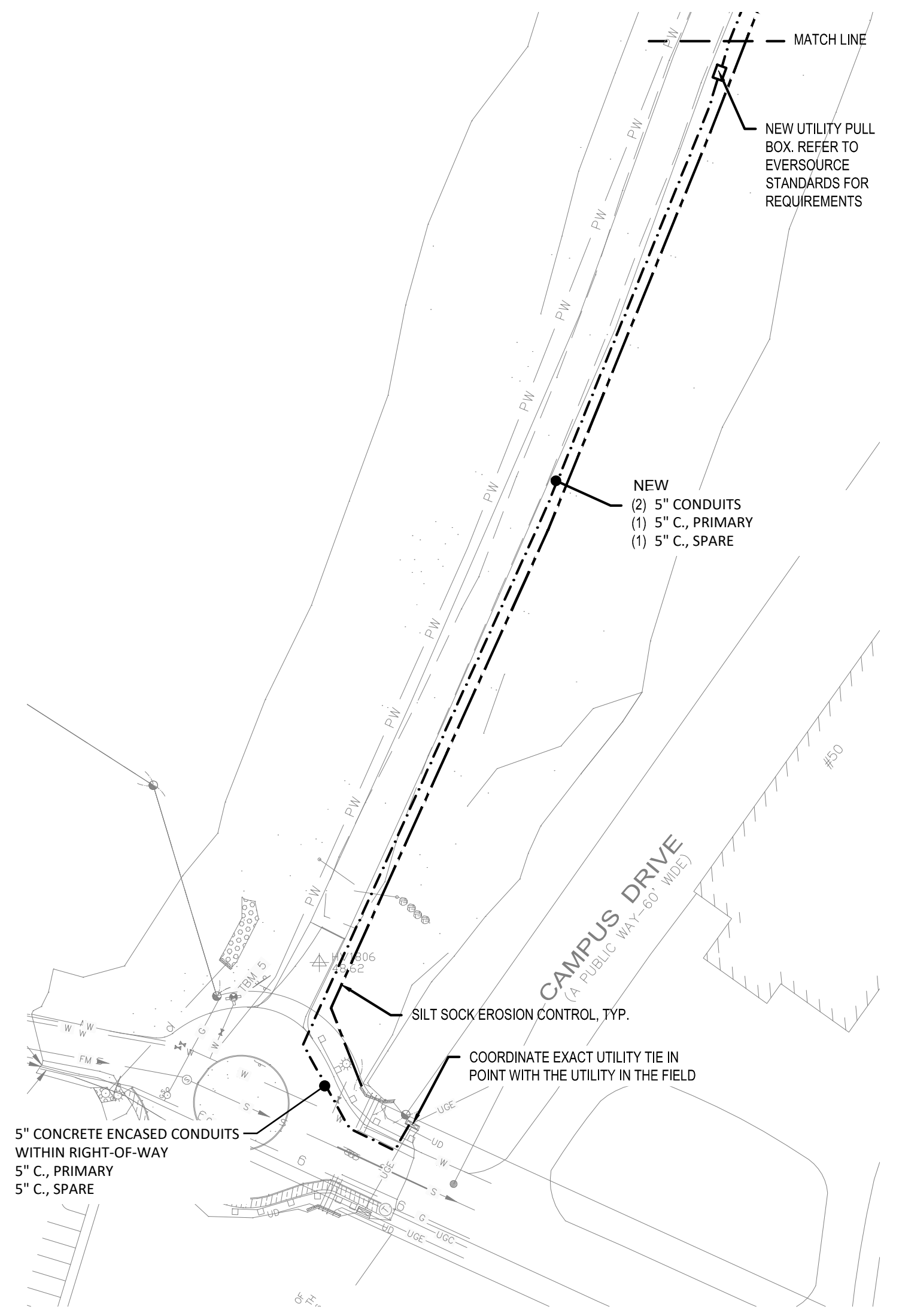
- FINAL CABINET SIZE SHALL BE DETERMINED BASED ON ACTUAL EQUIPMENT AND LAYOUT OF EQUIPMENT
- CABINET SHALL BE NEMA 250, TYPE 4X, UL50 AND UL508 STAINLESS STEEL AND PAINTED GREEN. COLOR SHALL BE SELECTED BY THE OWNER'S REPRESENTATIVE.

PAD MOUNTED ELECTRICAL CABINET
SCALE: N.T.S.

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<p>designed by: DMM drawn by: DMM approved by: RFM</p> <p>date: NOV. 18, 2021 project no: - file name: EL1.00 - Legend.dwg</p>	<p>City of Portsmouth, New Hampshire Department of Public Works Multi-purpose Recreation Fields 680 Peverly Hill Road Recreation Fields ELECTRICAL LEGEND AND DETAILS</p>
<p>drawing no. EL1.00</p>	
<p>sheet: - of -</p>	



ELECTRICAL SITE PLAN
 SCALE: 1" = 60'-0"
 30 15 0 30 60
 SCALE: 1" = 30'

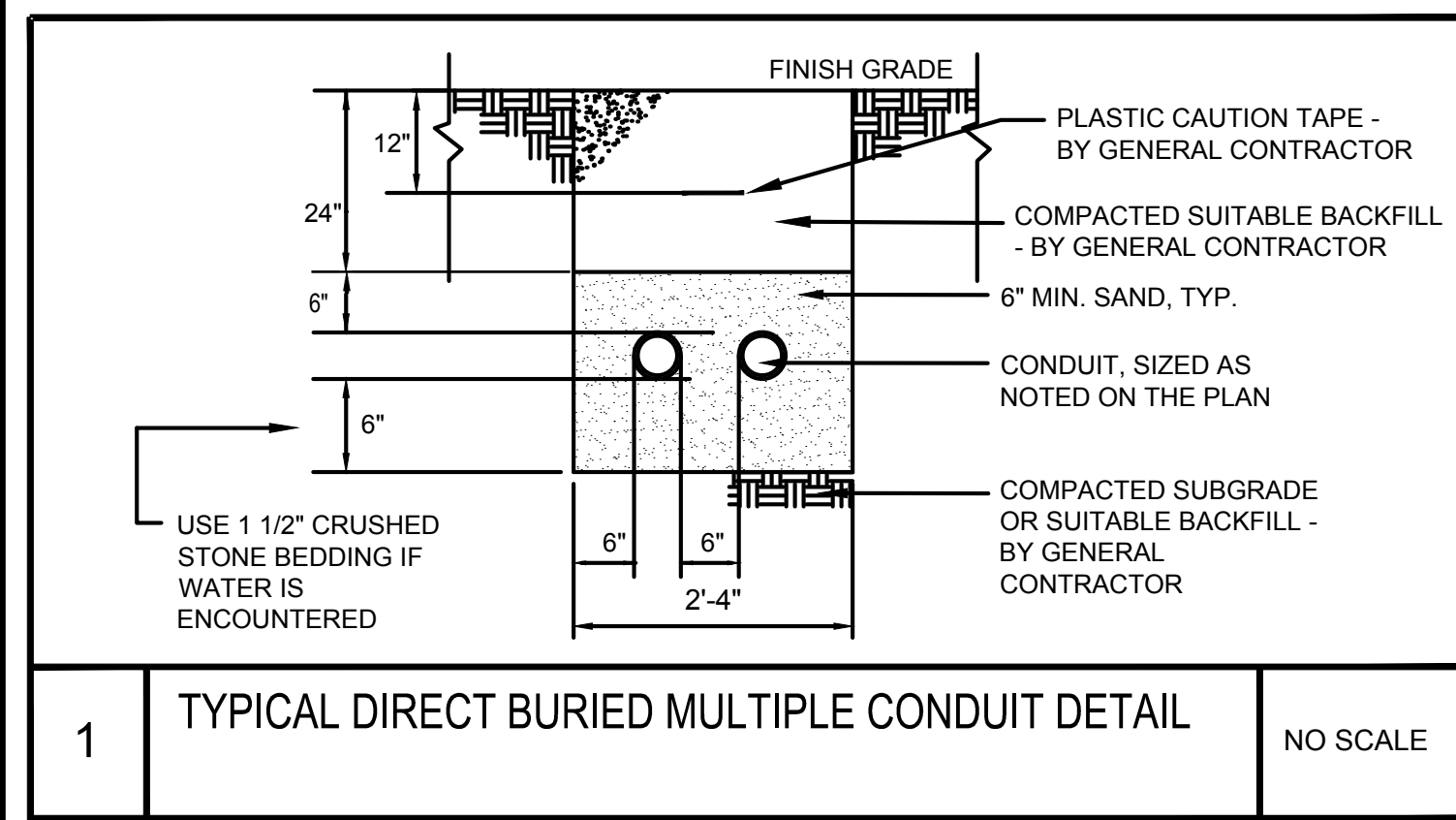


ELECTRICAL SITE PLAN
 SCALE: 1" = 60'-0"

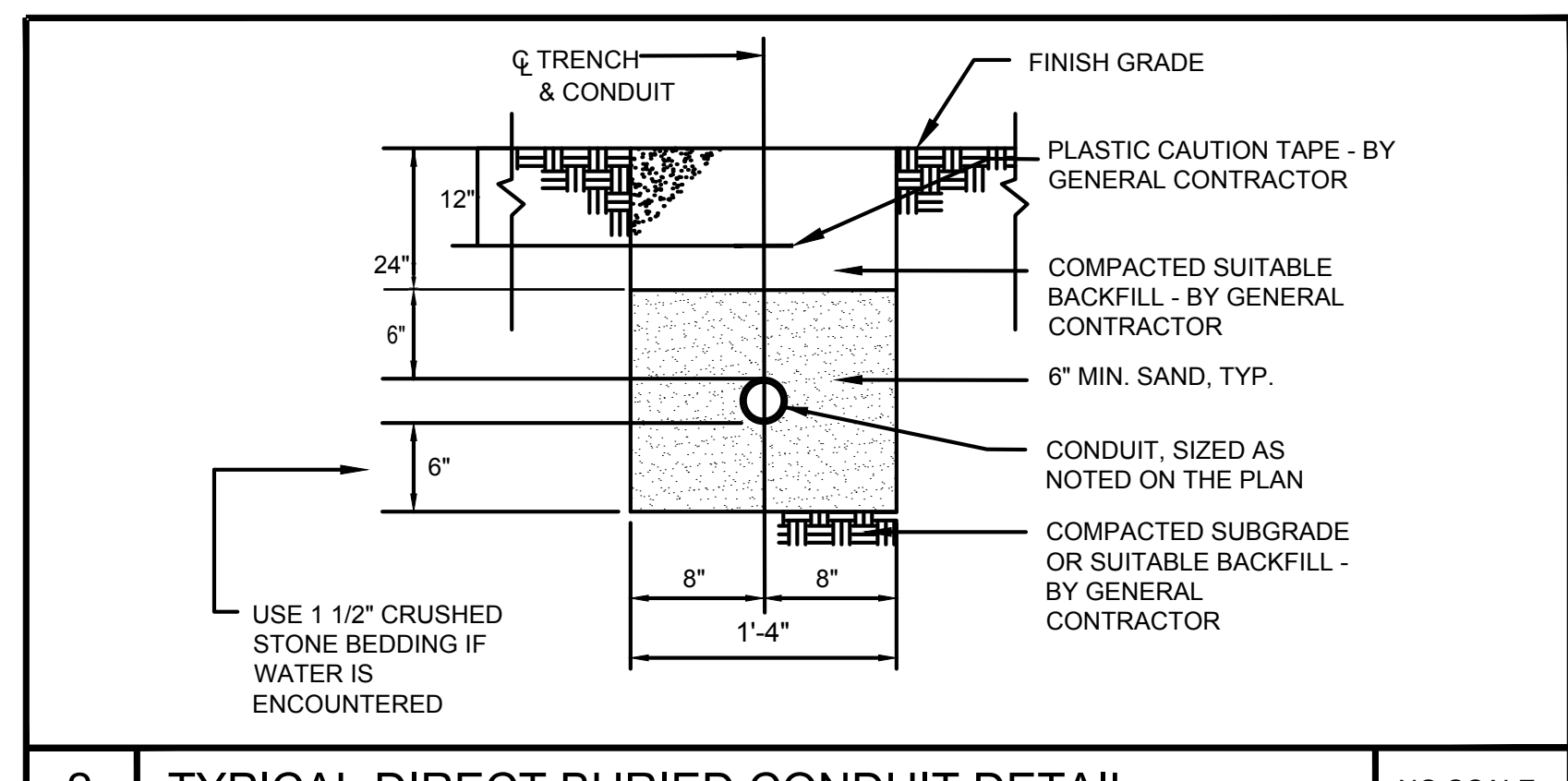
DRAWING NOTES:

1. REFER TO DRAWING EL1.00 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWING EL1.03 FOR SCHEDULES.
3. REFER TO DRAWING EL1.02 FOR DETAILS.
4. CONTRACTOR SHALL INTERCEPT EXISTING UNDERGROUND CONDUITS AT TWO NEW HANDHOLES AND EXTEND AS INDICATED AND AS REQUIRED TO NEW PAD MOUNTED CABINET. CONTRACTOR SHALL SAWCUT, INSTALL CONDUIT, PATCH AND REPAIR EXISTING ASPHALT SIDEWALK WHERE INTERCEPTING EXISTING CONDUIT AND ROUTING TO NEW PAD MOUNTED TRANSFORMER.

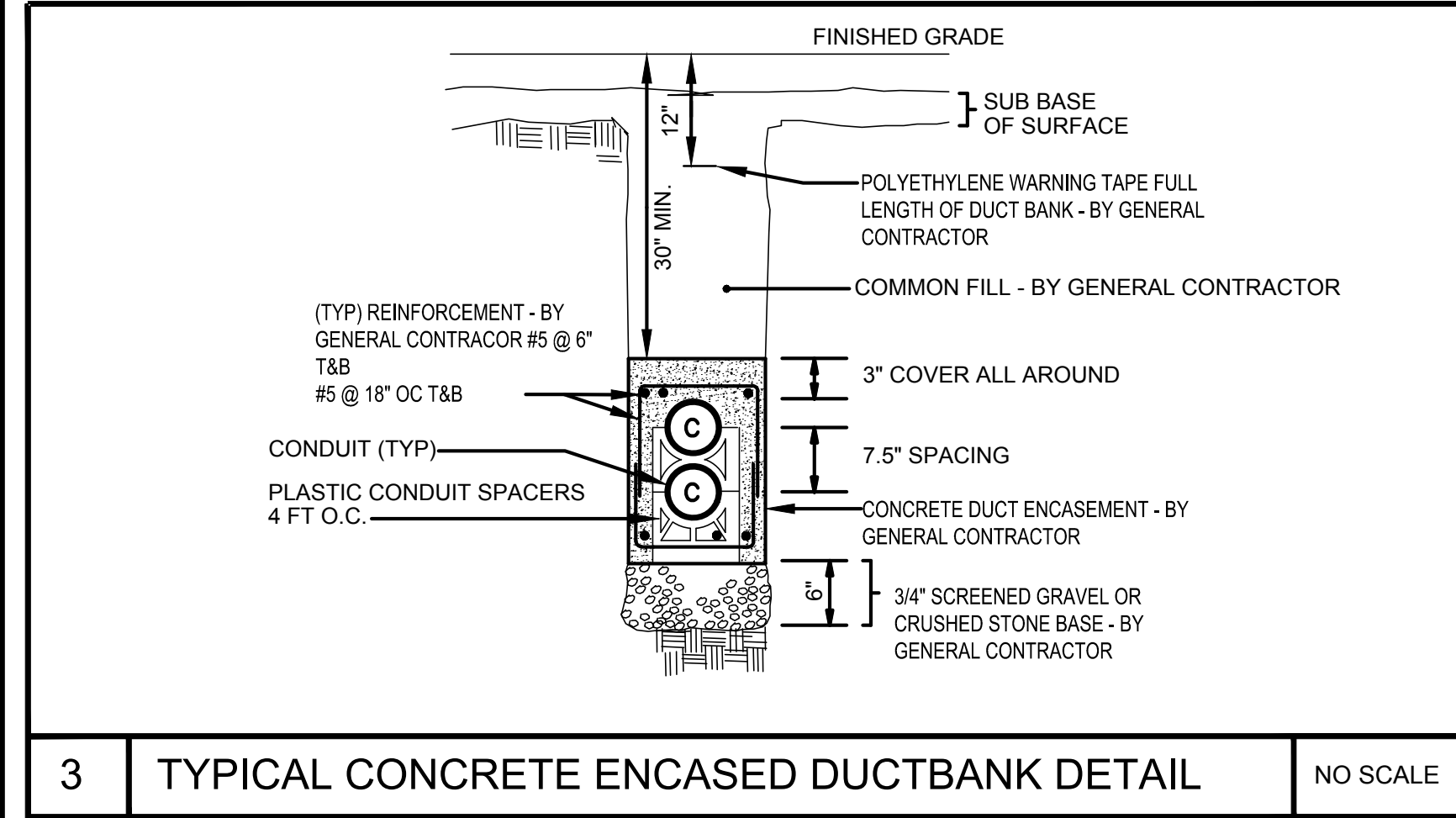
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<p>City of Portsmouth, New Hampshire Department of Public Works Multi-purpose Recreation Fields 680 Peverly Hill Road</p>		<p>Recreation Fields ELECTRICAL SITE PLAN REVISED</p>	
<p>drawing no. EL1.01</p>		<p>sheet: of -</p>	
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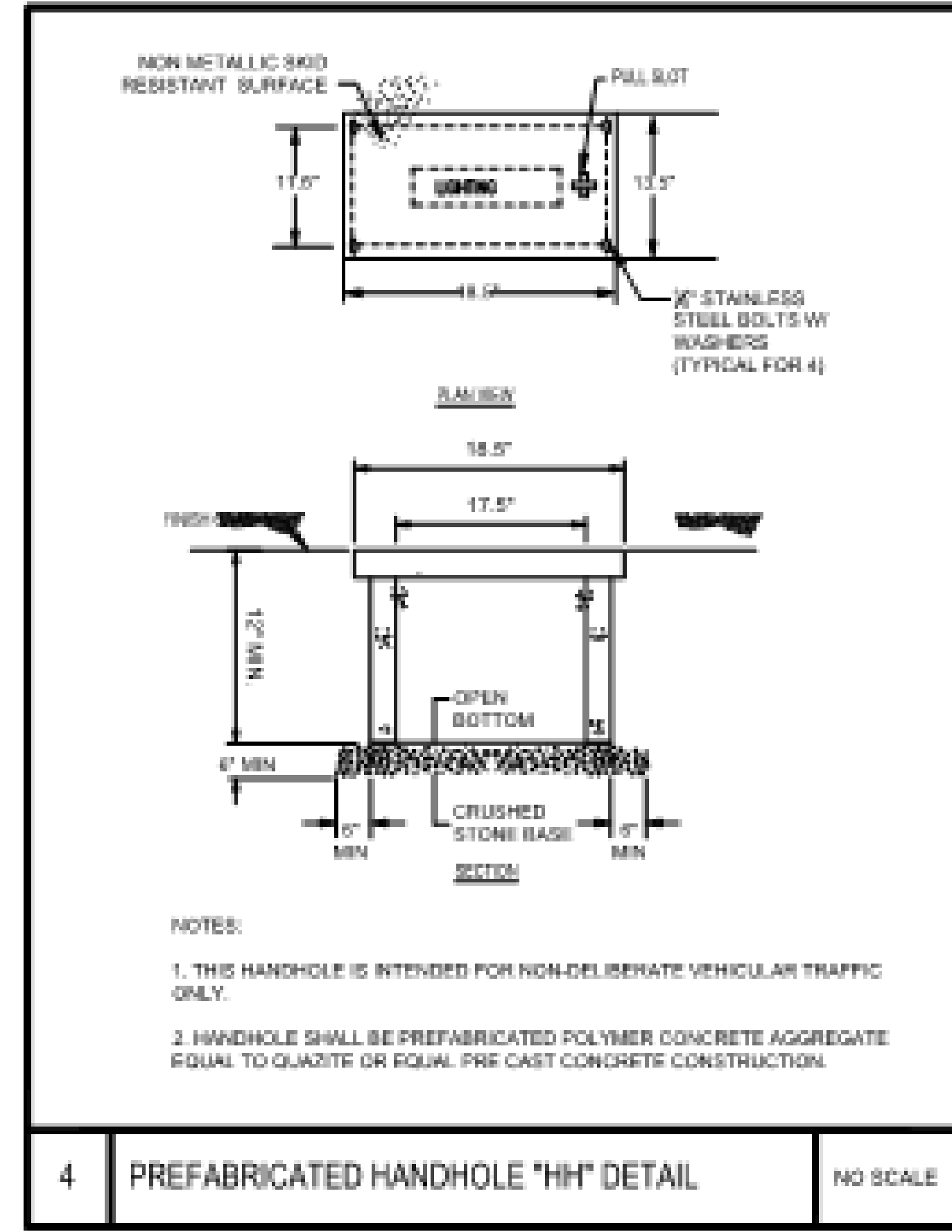
1 TYPICAL DIRECT BURIED MULTIPLE CONDUIT DETAIL NO SCALE



2 TYPICAL DIRECT BURIED CONDUIT DETAIL NO SCALE



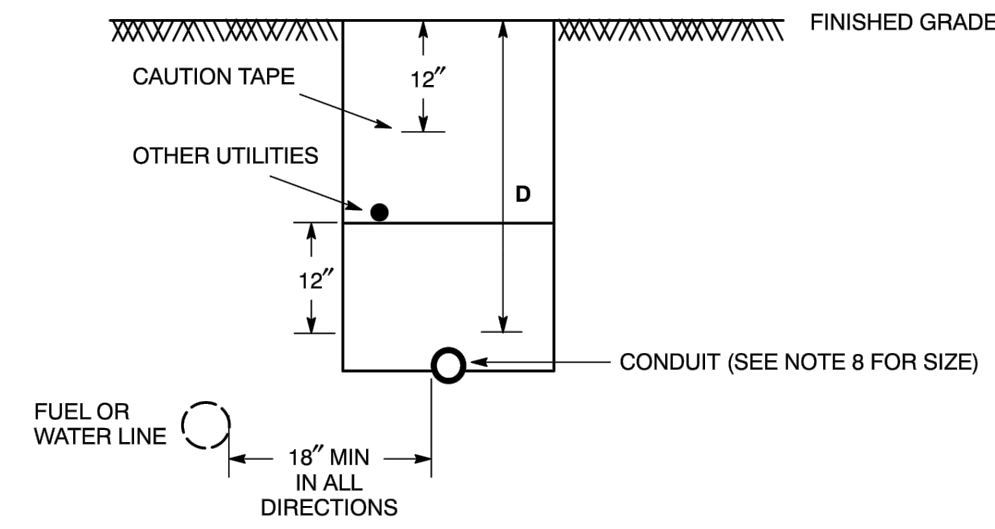
3 TYPICAL CONCRETE ENCASED DUCTBANK DETAIL NO SCALE



4 PREFABRICATED HANDHOLE 'HH' DETAIL NO SCALE

NOTES:
 1. THIS HANDHOLE IS INTENDED FOR NON-DELIBERATE VEHICULAR TRAFFIC ONLY.
 2. HANDHOLE SHALL BE PREFABRICATED POLYMER CONCRETE AGGREGATE EQUAL TO QUARTZITE OR EQUAL PRE CAST CONCRETE CONSTRUCTION.

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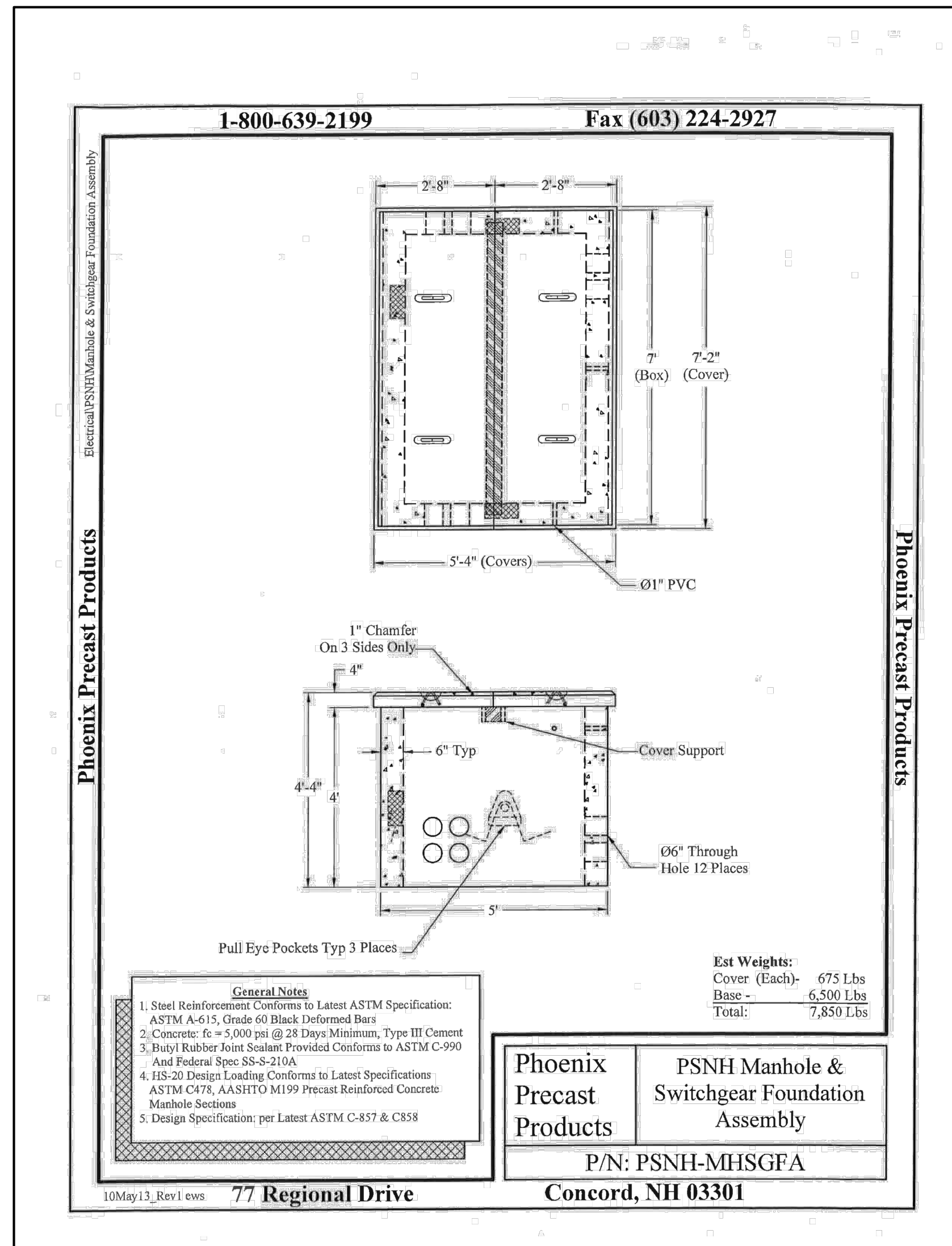


D = 36 inches for primary voltage cable
30 inches for secondary cables

Notes

- All non-metallic conduit and fittings shall be electrical grade, Schedule 40 PVC, and shall conform to the applicable sections of NEMA TC2-1990 and be UL Listed. **Only gray-colored conduit will be accepted.** Any PVC conduit not having the proper NEMA and UL markings will not be accepted. All steel conduits shall conform to ASTM A120 and be rigid galvanized steel. All PVC conduit joints must be cemented. Steel fittings shall be sealed with compound.
- All 90 degree sweeps will be made using rigid galvanized steel with a minimum radius of 24 inches for three inch, 36 inches for four and five inch, and 48 inches for six inch conduit. All steel sweeps within eighteen inches of surface shall be properly grounded.
- A ten-foot horizontal sections of rigid galvanized steel conduit will be required at each sweep for primary. For secondary and services a ten-foot horizontal section if schedule 40 as per ANSI/NEMA TC2-1990.
- The conduit should cross paved areas at approximately 90 degrees.
- Backfill may be made with excavated material or comparable, unless material is deemed unsuitable by PSNH. Backfill shall be free of frozen lumps, rocks, debris, and rubbish. Organic material shall not be used as backfill. Backfill shall be thoroughly compacted in six-inch layers.
- A suitable pulling string, capable of 200 pounds of pull, must be installed in the conduit before PSNH is notified to install cable. The string should be blown into the conduit after the run is assembled to avoid bonding the string to the conduit.
- Routing of the conduit and inspection prior to backfill will be provided by PSNH. Installation of the conduit will be done by the contractor. The PSNH supervisor must be notified two business days prior to backfilling the trench. In the event that a cable cannot be successfully pulled through the completed conduit system due to a construction error, it will be the contractor's responsibility to locate and repair the involved conduit. The contractor will be responsible for all resulting expenses.
- Normal conduit sizes for PSNH are three-inch for single-phase primary and secondary voltage cables, four-inch for three-phase secondary, and five-inch for three-phase primary.
- All conduit installations must conform to the current edition of the *National Electric Code*, state and local codes and ordinances, and where applicable, the *National Electric Code*.

ORIGINAL	PRIMARY/SECONDARY CABLE INSTALLATION			
DATE				
APPROVED	NORTHEAST UTILITIES	CONSTRUCTION STANDARD	DTR 50.102	3
4/2012				



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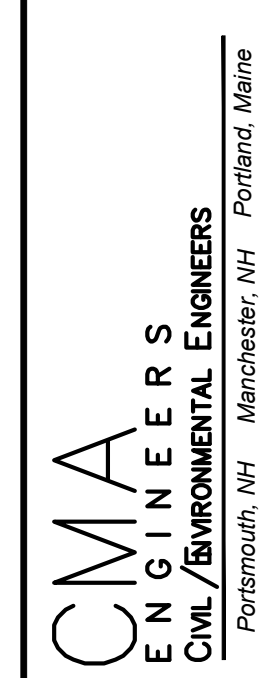
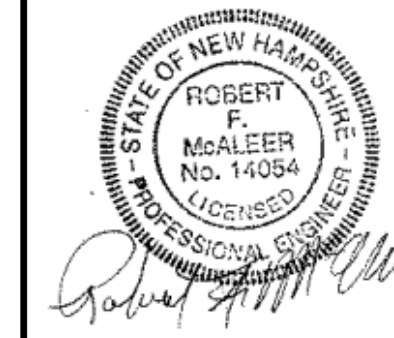
CONDUIT & WIRING SCHEDULE							
CONDUIT	FEEDER	FROM	TO	FIXTURES	LOAD	VOLTAGE	REMARKS
P1	2"C., 3#6 & 1#8G	LIGHTING CONTROL PANEL CONTACTOR C1	FIXTURE S1	5	12.82A	480V	EXISTING CONDUIT
P2	2"C., 3#6 & 1#8G	LIGHTING CONTROL PANEL CONTACTOR C2	FIXTURE S2	5	12.82A	480V	EXISTING CONDUIT
P3	2"C., 3#6 & 1#8G	LIGHTING CONTROL PANEL CONTACTOR C3	FIXTURE S3	6	12.82A	480V	EXISTING CONDUIT
P4	2"C., 3#6 & 1#8G	LIGHTING CONTROL PANEL CONTACTOR C4	FIXTURE S8	6	12.82A	480V	EXISTING CONDUIT
P5	2"C., 3#6 & 1#8G	LIGHTING CONTROL PANEL CONTACTOR C5	FIXTURE S3	6	12.82A	480V	EXISTING CONDUIT
P6	2"C.						EXISTING CONDUIT
P7	2"C.						EXISTING CONDUIT
P8	2"C., 3#8 & 1#10G	LIGHTING CONTROL PANEL CONTACTOR C8	FIXTURE S8	6	12.82A	480V	EXISTING CONDUIT
P9	2"C.						EXISTING CONDUIT
P10	2"C., 2#4 & 1#8G	PANEL PPL1	FIELD 1 SCOREBOARD	-	-	120V	EXISTING CONDUIT
P11	2"C., WITH PULLSTRING	COMMUNICATIONS	FIELD 1 SCOREBOARD	-	-	120V	EXISTING CONDUIT
P12	2"C.	PANEL PPL1	FUTURE FIELD 2 SCOREBOARD	-	-	-	EXISTING CONDUIT
P13	2"C., WITH PULLSTRING	COMMUNICATIONS	FUTURE FIELD 2 SCOREBOARD	-	-	-	EXISTING CONDUIT
P14	4" WITH PULL STRING	POWER FUTURE CONCESSION STAND	FUTURE	-	-	480V	NEW CONDUIT STUBBED OUT 5' BELOW GRADE FOR FUTURE
P15	4-2" WITH PULLSTRING	POWER FUTURE FIELD LIGHTING	FUTURE	-	-	480V	NEW CONDUIT STUBBED OUT 5' BELOW GRADE FOR FUTURE

PANELBOARD SCHEDULE							
PANELBOARD NO.: PPL1		SERVICE: 120/208V, 3Ø, 4W, 50 MCB					
LOCATION: ELECTRICAL ENCLOSURE		BUS BARS: 100A					
MOUNTING: SURFACE		AIC: 10,000		TOTAL NO. OF POLES: 12			
CKT. No.	DESCRIPTION OF LOAD	CIRCUIT BREAKERS			DESCRIPTION OF LOAD	CKT. No.	
		TRIP	POLES	TRIP			
1	ENCLOSURE RECEPTACLE	20	1	1	20	ENCLOSURE LIGHT	2
3	SPORTS LIGHTING CONTROL	20	1	1	20	FUTURE FIELD 2 SCORE BOARD	4
5	FIELD 1 SCORE BOARD	20	1	1	20	SPARE	6
7	SPARE	20	1	1	20	SPARE	8
9	SPACE					SPACE	10
11	SPACE					SPACE	12
	-					-	
	-					-	

* PROVIDE PANELBOARD WITH A GROUND BUS

PANELBOARD SCHEDULE							
PANELBOARD NO.: PPH1		SERVICE ENTRANCE RATED		SERVICE: 277/480V, 3Ø, 4W, 600A MCB			
LOCATION: ELECTRICAL ENCLOSURE		BUS BARS: 600A					
MOUNTING: SURFACE		AIC: 22,000		TOTAL NO. OF POLES: 42			
CKT. No.	DESCRIPTION OF LOAD	CIRCUIT BREAKERS			DESCRIPTION OF LOAD	CKT. No.	
		TRIP	POLES	TRIP			
1	-	-	-	-	-	-	2
3	SPORT LIGHTING S1/C1	40	3	3	40	SPORT LIGHTING S2/C2	4
5	-	-	-	-	-	-	6
7	-	-	-	-	-	-	8
9	SPORT LIGHTING S3/C3	40	3	3	40	SPORT LIGHTINGS8/C4	10
11	-	-	-	-	-	-	12
13	-	-	-	-	-	-	14
15	SPORT LIGHTING S3/C5	40	3	3	40	SPORT LIGHTING S8/C8	16
17	-	-	-	-	-	-	18
19	-	-	-	-	-	-	20
21	FUTURE S4/C6	100	3	3	30	FUTURE S7/C7	22
23	-	-	-	-	-	-	24
25	-	-	-	-	-	-	26
27	FUTURE S4/C9	30	3	3	30	FUTURE S5/C10	28
29	-	-	-	-	-	-	30
31	-	-	-	-	-	-	32
33	PPL1 VIA TRANS	30	3	3	30	FUTURE S6/C11	34
35	-	-	-	-	-	-	36
37	-	-	-	-	-	-	38
39	FUTURE S7/C12	30	3	-	-	-	40
41	-	-	-	-	-	-	42

* PROVIDE PANELBOARD WITH A GROUND BUS

			
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City of Portsmouth, New Hampshire Department of Public Works Multi-purpose Recreation Fields 680 Peverly Hill Road Recreation Fields ELECTRICAL SCHEDULES		drawing no. EL1.04	
sheet: - of -		no. revision date by	