

- PHASE 1 SITE PLAN NOTES
- 1 NEW UTILITY POLE TO BE INSTALLED BY BELMONT LIGHT IN-LINE WITH EXISTING 5KV OVERHEAD CONDUCTORS. POLE-MOUNTED UTILITY TRANSFORMER TO BE INSTALLED ON NEW POLE BY BELMONT LIGHT. REFER TO 1/SU1.05.
 - 2 PROVIDE (1) 2-1/2"Ø FOR NEW UNDERGROUND 120/240V CONDUCTORS FROM SECONDARY SIDE OF POLE-MOUNTED TRANSFORMER TO EXISTING TO REMAIN GRANT FIELD SERVICE ENTRANCE GEAR. REFER TO 1/SU1.05.
 - 3 DISCONNECT, CAP, AND MAKE SAFE INCOMING 2400V FEED TO EXISTING TRANSFORMER
 - 4 EXISTING TRANSFORMER TO BE RELOCATED BY BELMONT LIGHT TO NEW UTILITY POLE. EXISTING SERVICE ENTRANCE GEAR TO REMAIN. REFER TO 1/SU1.05.
 - 5 PROVIDE 18"x18"x6" NEMA 3R UNDERGROUND HANDHOLE. REFER TO 2/SU1.03.

- GENERAL SITE ELECTRICAL NOTES
1. WHERE UNDERGROUND UTILITIES ARE LIKELY TO BE ENCOUNTERED THE CONTRACTOR SHALL EXCAVATE BY HAND.
 2. REFER TO LANDSCAPE & CIVIL SITE PLANS FOR FINAL LOCATIONS OF OTHER SITE UTILITIES.
 3. PROVIDE CONDUIT PLUGS WITH 1/4" NYLON DRAG LINE ATTACHED IN ALL EMPTY CONDUITS.
 4. EXISTING OVERHEAD UTILITIES NOT SHOWN. COORDINATE WITH UTILITY COMPANY AS REQUIRED.
 5. DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD CONDITIONS SHALL GOVERN LOCATION OF ELECTRICAL DEVICES.

UNDERGROUND UTILITY NOTE

THE CONTRACTOR IS TO BE RESPONSIBLE FOR CONTACTING THE LOCAL CABLE TELEVISION COMPANY, POWER COMPANY, TELEPHONE COMPANY, GAS COMPANY, WATER AND SEWER COMPANY AND ANY OTHER UTILITY COMPANY WITHIN THE AREA PRIOR TO PROCEEDING WITH ANY EXCAVATION. BY LAW, THE CONTRACTOR IS REQUIRED TO CALL BEFORE DOING ANY EXCAVATION, DIGGING HOLES OR DRIVING POSTS REGARDLESS OF WHETHER IT IS WITHIN THE STREET LINE OR ON PRIVATE PROPERTY. OBTAIN INFORMATION REGARDING THE EXISTENCE AND LOCATION OF ANY UNDERGROUND FACILITIES BY CALLING 811.

- WATER PREVENTION MEASURES
1. PITCH ALL UNDERGROUND CONDUITS DOWNWARDS AWAY FROM THE BUILDING. CONDUITS SHALL NOT BE PITCHED TOWARDS THE BUILDING, ALLOWING GROUND WATER TO ENTER BUILDING.
 2. PROVIDE FOAM SEALANT FOR ALL ELECTRIC CONDUITS CONTAINING CONDUCTORS, EQUAL TO POLYWATER FST. LOCATE AT INTERIOR END OF EACH CONDUIT WHERE CONDUIT TERMINATES IN BUILDING. FOR SPARE CONDUITS WITHOUT CONDUCTORS, PROVIDE CAP AT EACH END.
 3. ALL CONDUITS SHALL SWEEP UPWARD A MINIMUM OF 12" ABOVE THE BASE OF HANDHOLES OR OTHER EXTERIOR STRUCTURES.
 4. COORDINATE SWEEP AT TRANSFORMER PADS WITH UTILITY COMPANY DETAILS AND STANDARDS.

1 PHASE 1 - SITE PLAN
1" = 40'-0"

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THE GALANTE

ARCHITECTURE

STUDIO INC

146 MT AUBURN ST CAMBRIDGE, MA 02138

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Project Number
2202

Project Title
Belmont Skating &
Sports Facility

297 Concord Ave,
Belmont, MA 02478

Drawing Title
PHASE 1 - SITE
PLAN

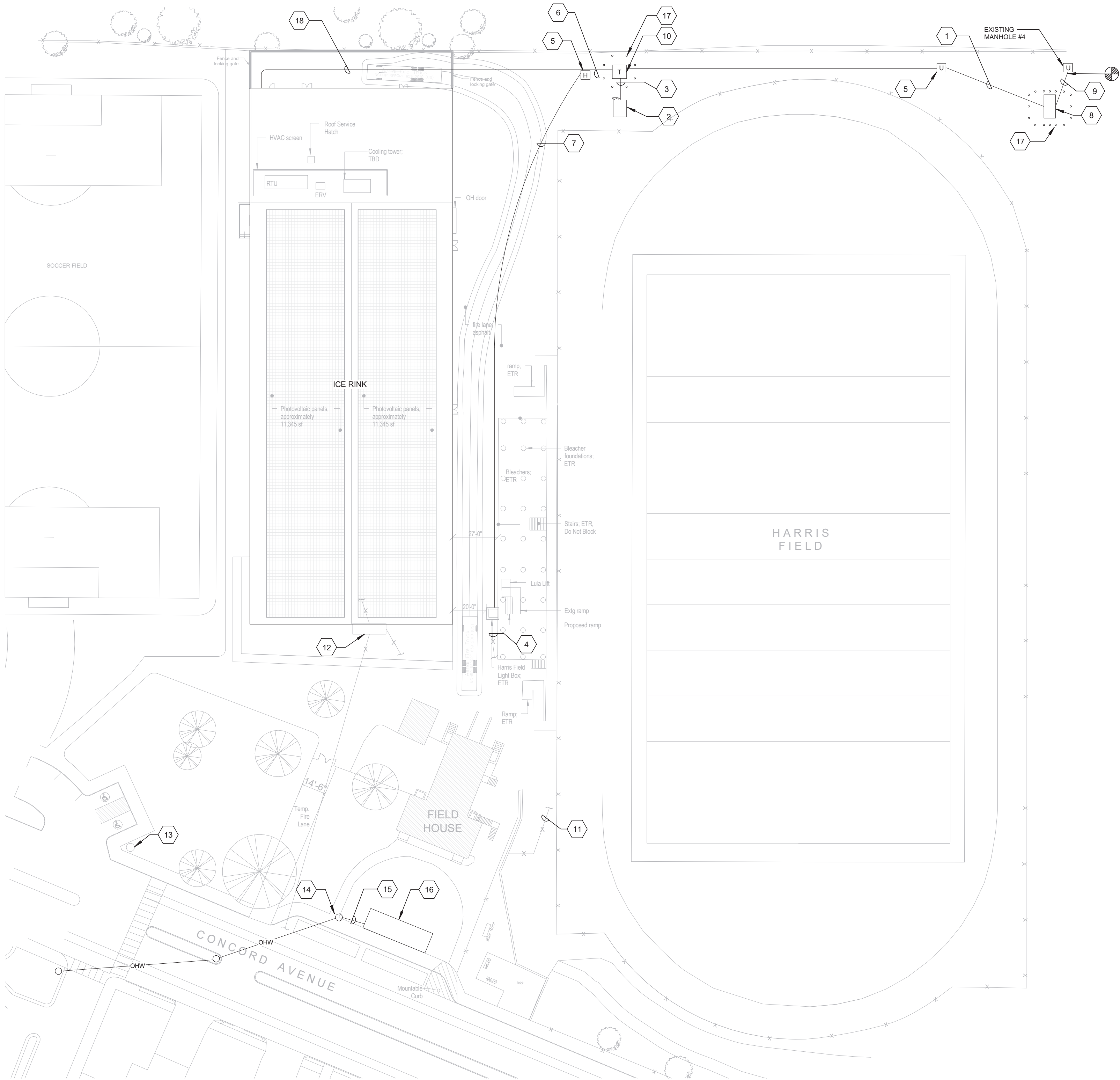
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1 PHASE 2/3 - SITE PLAN
1" = 40'-0"

PHASE 2/3 SITE PLAN NOTES	
1	PROVIDE NEW UNDERGROUND 13.8KV PRIMARY ELECTRICAL SERVICE FROM UTILITY SWITCHGEAR TO NEW PAD-MOUNTED UTILITY TRANSFORMER. PROVIDE (4) 5" PVC CONCRETE ENCASED CONDUIT. RESPONSIBILITIES: <ul style="list-style-type: none">• INSTALLATION OF CONDUIT, STRINGS, FEEDERS, ETC. TO BE COMPLETED BY ELECTRICAL CONTRACTOR PER BELMONT LIGHT SPECIFICATIONS.• BELMONT LIGHT TO INSPECT WORK PRIOR TO BACKFILLING.• BELMONT LIGHT TO COMPLETE HIGH VOLTAGE WIRING.
2	PROVIDE NEW TEMPORARY ELECTRICAL SERVICE TO CONEX BOX FOR CONSTRUCTION. REFER TO 2/SU1.05. RESPONSIBILITIES: <ul style="list-style-type: none">• INSTALLATION OF TRANSFORMER PAD AND 480V PANELBOARD, CONNECTIONS, AND WIRING SERVICE SHALL BE COMPLETED BY ELECTRICAL CONTRACTOR PER BELMONT LIGHT. SPECIFICATIONS:• BELMONT LIGHT SHALL BE RESPONSIBLE FOR INSTALLATION OF STEPDOWN TRANSFORMERS.
3	PROVIDE ONE SET OF CONDUIT AND FEEDERS UNDERGROUND FROM UTILITY TRANSFORMER TO TEMPORARY ELECTRIC CONEX BOX. PROVIDE EXTERIOR AND INTERIOR PICTURES IF NEEDED. REFER TO 2/SU1.05. RESPONSIBILITIES: <ul style="list-style-type: none">• EXCAVATION & BACKFILL TO BE DONE BY SITE CONTRACTOR.• CONDUIT, INSTALLATIONS, WIRING, AND TERMINATIONS TO BE DONE BY ELECTRICAL CONTRACTOR.
4	DISCONNECT AND REMOVE EXISTING HARRIS FIELD FEED FROM BLUE TRANSFORMER.
5	PROVIDE NEW MANHOLE, PER BELMONT SPECIFICATIONS
6	PROVIDE ONE SET OF CONDUIT AND FEEDERS UNDERGROUND FROM UTILITY TRANSFORMER TO NEW HANDHOLE. REFER TO 2/SU1.05. RESPONSIBILITIES: <ul style="list-style-type: none">• INSTALLATION OF CONDUIT, STRINGS, FEEDERS, ETC. TO BE COMPLETED BY ELECTRICAL CONTRACTOR PER BELMONT LIGHT SPECIFICATIONS.• BELMONT LIGHT TO PERFORM TERMINATIONS AT TRANSFORMER.
7	PROVIDE ONE SET OF CONDUIT AND FEEDERS UNDERGROUND FROM NEW HANDHOLE TO EXISTING HARRIS LIGHT BOX. REFER TO 2/SU1.05. RESPONSIBILITIES: <ul style="list-style-type: none">• ALL CONDUITS, STRING, FEEDER, ETC TO BE DONE BY ELECTRICAL CONTRACTOR.
8	NEW 15KV SWITCHGEAR PROVIDED BY UTILITY COMPANY. RESPONSIBILITIES: <ul style="list-style-type: none">• PURCHASE & INSTALLATION OF FOUNDATION/VAULT & BOLLARDS SHALL BE COMPLETED BY ELECTRICAL CONTRACTOR WITH SITE CONTRACTOR SUPPORT.• BELMONT LIGHT RESPONSIBLE FOR INSTALLATION OF SWITCHGEAR AND ALL HIGH VOLTAGE CONNECTIONS.
9	UNDERGROUND 13.8KV PRIMARY ELECTRICAL SERVICE FROM EXISTING MANHOLE #4 TO UTILITY SWITCHGEAR. PROVIDE (6) 5" PVC CONCRETE ENCASED CONDUIT. RESPONSIBILITIES: <ul style="list-style-type: none">• INSTALLATION OF CONDUIT, STRINGS, FEEDERS, ETC. TO BE COMPLETED BY ELECTRICAL CONTRACTOR PER BELMONT LIGHT SPECIFICATIONS.• BELMONT LIGHT TO INSPECT WORK PRIOR TO BACKFILLING.• BELMONT LIGHT TO COMPLETE HIGH VOLTAGE WIRING.
10	PROVIDE NEW 480V/277V PAD-MOUNTED UTILITY TRANSFORMER AS SPECIFIED BY BELMONT LIGHT. RESPONSIBILITIES: <ul style="list-style-type: none">• PURCHASE & INSTALLATION OF FOUNDATION & BOLLARDS SHALL BE COMPLETED BY ELECTRICAL CONTRACTOR WITH SITE CONTRACTOR SUPPORT.• INSTALLATION OF ALL CONDUIT, STRINGS, FEEDERS, AND ETC TO BE COMPLETED BY ELECTRICAL CONTRACTOR PER BELMONT LIGHT. SPECIFICATIONS:• BELMONT LIGHT SHALL BE RESPONSIBLE FOR INSTALLATION OF TRANSFORMER.
11	REMOVE EXISTING OVERHEAD FEED FROM FIELD HOUSE TO LULA LIFT. REMOVE ALL EXISTING CONDUITS AND CONDUCTORS.
12	REMOVE EXISTING BLUE PAD MOUNTED TRANSFORMER. REMOVE ALL FEEDERS TO OLD ICE RINK SERVICE ENTRANCE AND HARRIS FIELD.
13	EXISTING UTILITY POLE AND LIGHT FIXTURE TO BE RELOCATED BY BELMONT LIGHT AND POWER.
14	NEW POLE, TRANSFORMER, OVERHEAD WIRE, AND ANCHOR PROVIDED BELMONT LIGHT.
15	PROVIDE FEEDERS AND CONDUIT FROM THE NEW POLE MOUNTED TRANSFORMER PROVIDED BY BELMONT LIGHT. REFER TO 2/SU1.05.
16	APPROXIMATE LOCATION OF TEMPORARY CONSTRUCTION TRAILER. CONFIRM EXACT LOCATION IN FIELD. <ul style="list-style-type: none">• ELECTRICAL: INSTALL MAST WITH WEATHER HEAD TO METER SOCKET BOX WITH SERVICE DISCONNECT MOUNTED ON EXTERIOR OF TRAILER INCLUDING ALL CONDUIT WIRING AND TERMINATION.• TELE/COMM: INSTALL MAST WITH WEATHER HEAD, CONDUIT TO TRAILER TELDATA BOX FOR VERIZON FEED. INCLUDE ALL WIRING AND TERMINATION.
17	PROVIDE CONCRETE PROTECTIVE BOLLARDS. REFER TO 4/SU1.03. REFER TO BOTH 5/SU1.03 AND 6/SU1.03 FOR ADDITIONAL INFORMATION.
18	PROVIDE SIX SETS OF CONDUITS UNDERGROUND FROM UTILITY TRANSFORMER TO ELECTRICAL ROOM OF NEW ICE RINK FOR NEW SECONDARY ELECTRIC SERVICE. REFER TO 3/SU1.05. RESPONSIBILITIES: <ul style="list-style-type: none">• CONDUIT BY SITE CONTRACTOR.

GENERAL SITE ELECTRICAL NOTES	
1.	WHERE UNDERGROUND UTILITIES ARE LIKELY TO BE ENCOUNTERED THE CONTRACTOR SHALL EXCAVATE BY HAND.
2.	REFER TO LANDSCAPE & CIVIL SITE PLANS FOR FINAL LOCATIONS OF OTHER SITE UTILITIES
3.	PROVIDE CONDUIT PLUGS WITH 1/4" NYLON DRAG LINE ATTACHED IN ALL EMPTY CONDUITS.
4.	EXISTING OVERHEAD UTILITIES NOT SHOWN. COORDINATE WITH UTILITY COMPANY AS REQUIRED
5.	DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD CONDITIONS SHALL GOVERN LOCATION OF ELECTRICAL DEVICES.

UNDERGROUND UTILITY NOTE	
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WATER PREVENTION MEASURES	
1.	PITCH ALL UNDERGROUND CONDUITS DOWNWARDS AWAY FROM THE BUILDING. CONDUITS SHALL NOT BE PITCHED TOWARDS THE BUILDING, ALLOWING GROUND WATER TO ENTER BUILDING.
2.	PROVIDE FOAM SEALANT FOR ALL ELECTRIC CONDUITS CONTAINING CONDUCTORS. EQUAL TO POLYWATER FST. LOCATE AT INTERIOR END OF EACH CONDUIT WHERE CONDUIT TERMINATES IN BUILDING. FOR SPARE CONDUITS WITHOUT CONDUCTORS, PROVIDE CAP AT EACH END.
3.	ALL CONDUITS SHALL SWEEP UPWARD A MINIMUM OF 12" ABOVE THE BASE OF HANDHOLES OR OTHER EXTERIOR STRUCTURES.
4.	COORDINATE SWEEP AT TRANSFORMER PADS WITH UTILITY COMPANY DETAILS AND STANDARDS.

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Project Title
Belmont Skating & Sports Facility

297 Concord Ave,
Belmont, MA 02478

Drawing Title
PHASE 2/3 - SITE
PLAN

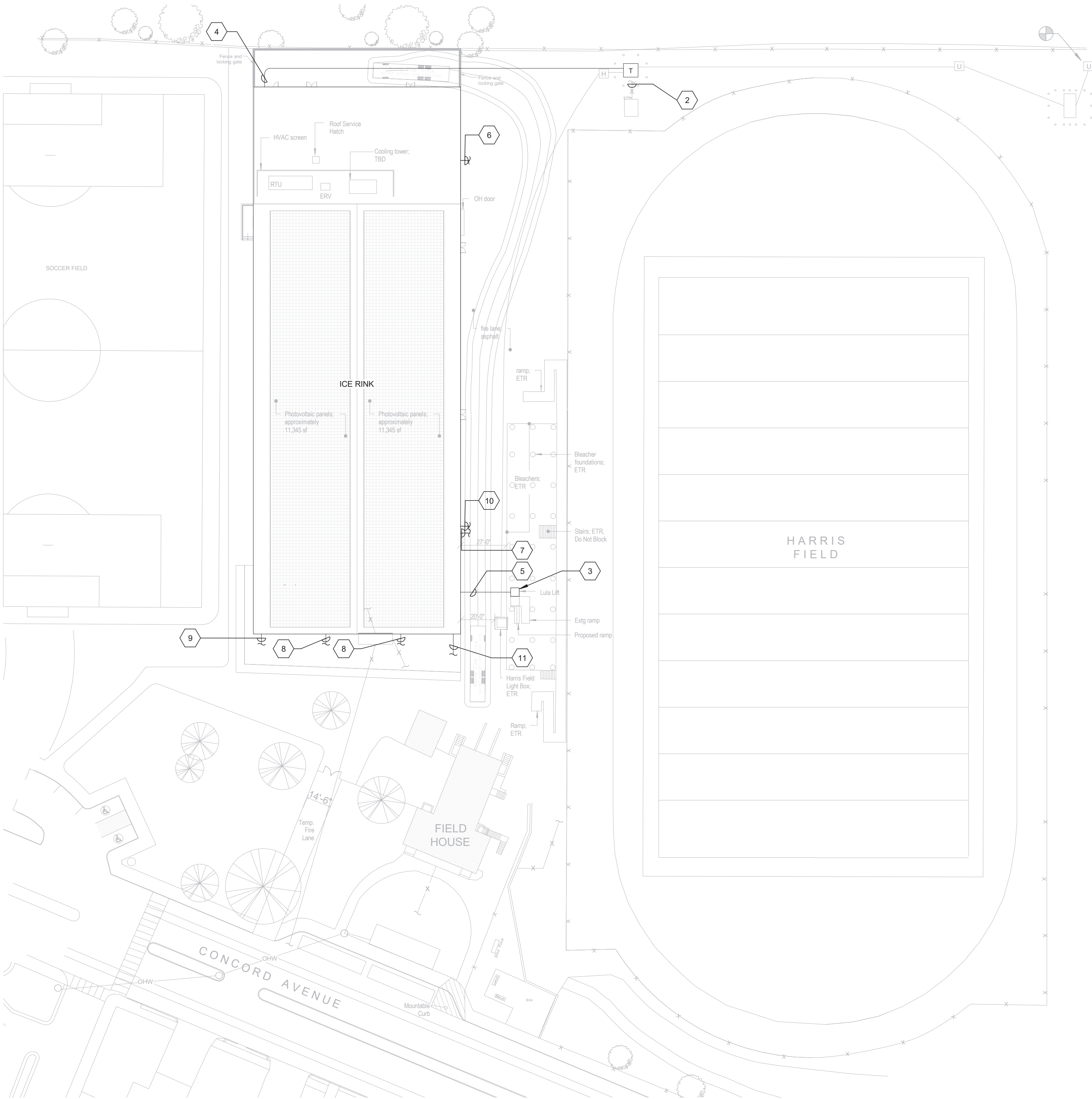
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1 PHASE 4/5 - SITE PLAN
1" = 40'-0"

PHASE 4/5 SITE PLAN NOTES

- 1 REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN FIELD HOUSE, REMOVE ALL ASSOCIATED CONDUCTORS, CONDUITS AND FEEDERS BACK TO CONCORD AVE.
- 2 REMOVE TEMPORARY CONSTRUCTION TRANSFORMER AND SERVICE.
- 3 REMOVE EXISTING TEMPORARY POWER FEED TO LULA LIFT. REMOVE ALL CONDUITS AND CONDUCTORS.
- 4 PROVIDE SIX SETS OF CONDUITS UNDERGROUND FROM UTILITY TRANSFORMER TO ELECTRICAL ROOM OF NEW ICE RINK FOR NEW SECONDARY ELECTRICAL SERVICE. REFER TO 3/SU1.05.
RESPONSIBILITIES:
 - CONDUIT BY SITE CONTRACTOR.
- 5 NEW PERMANENT POWER FEED TO LULA LIFT. SEE BUILDING DRAWINGS FOR ADDITIONAL INFORMATION
- 6 8" STORM MAIN TO ENTER BUILDING FOOTPRINT BELOW GRADE. SEE CIVIL PLANS FOR CONTINUATION.
- 7 6" FIRE PROTECTION SERVICE MAIN TO ENTER BUILDING FOOTPRINT BELOW GRADE. SEE CIVIL PLANS FOR CONTINUATION.
- 8 4" STORM MAIN TO ENTER BUILDING FOOTPRINT BELOW GRADE. SEE CIVIL PLANS FOR CONTINUATION.
- 9 4" WASTE MAIN TO LEAVE BUILDING FOOTPRINT BELOW GRADE. SEE CIVIL PLANS FOR CONTINUATION.
- 10 3" DOMESTIC COLD WATER SERVICE MAIN TO ENTER BUILDING FOOTPRINT BELOW GRADE. SEE CIVIL PLANS FOR CONTINUATION.
- 11 4" FIRE DEPARTMENT CONNECTION TO STANDALONE FDC ON SITE. SEE CIVIL PLANS FOR CONTINUATION.

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PHASE 4/5 - SITE
PLAN

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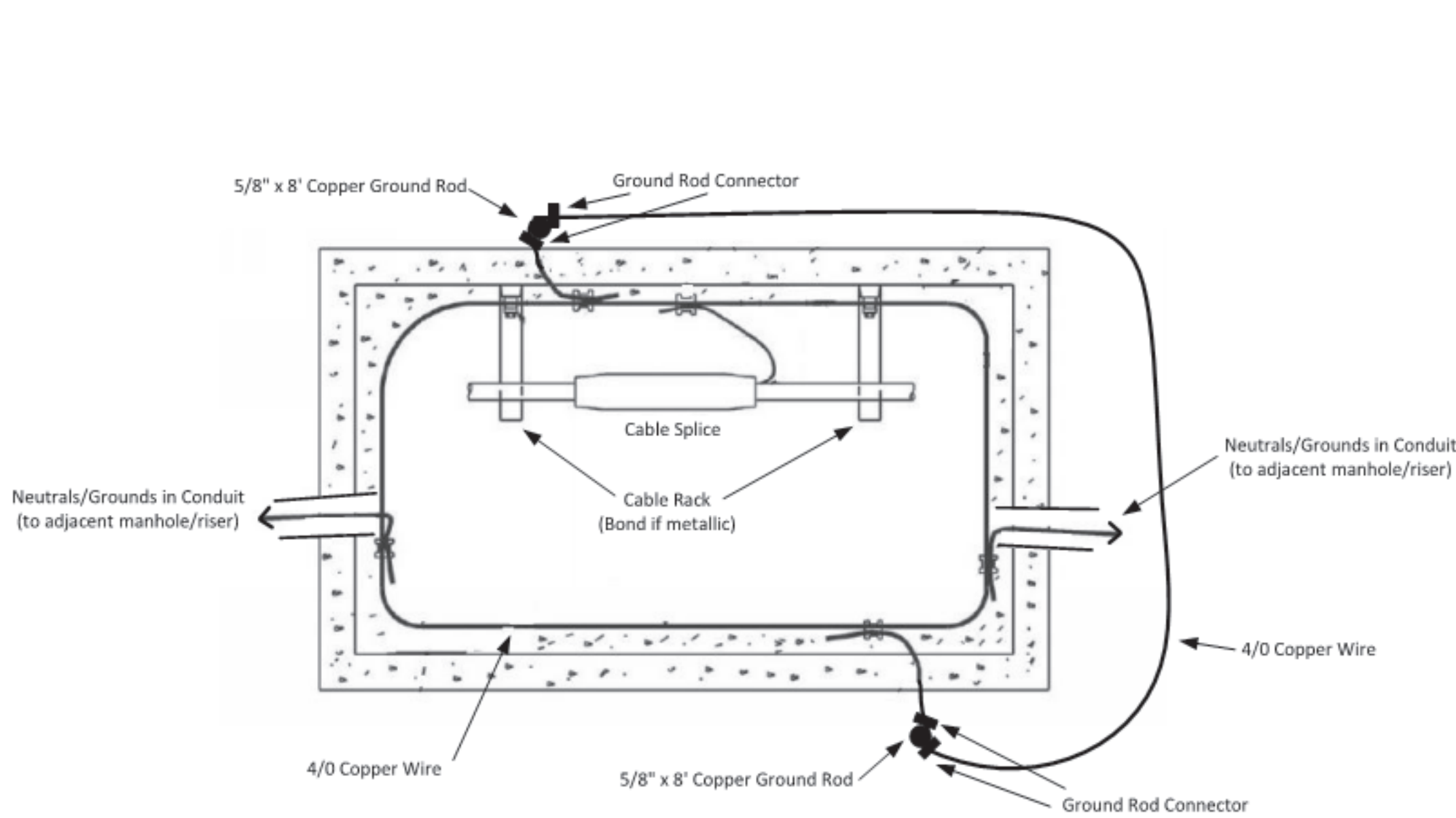
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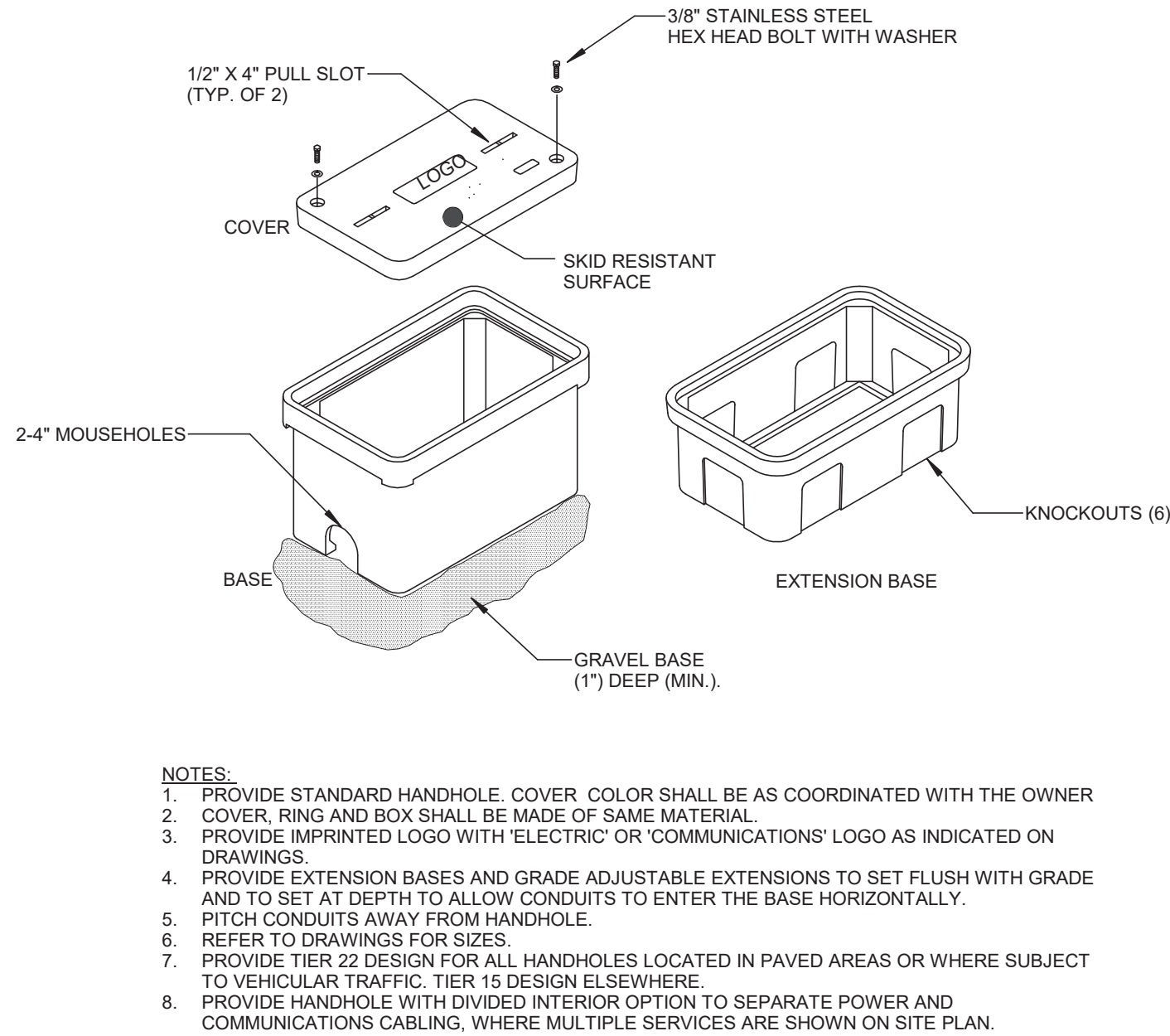
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SU1.02

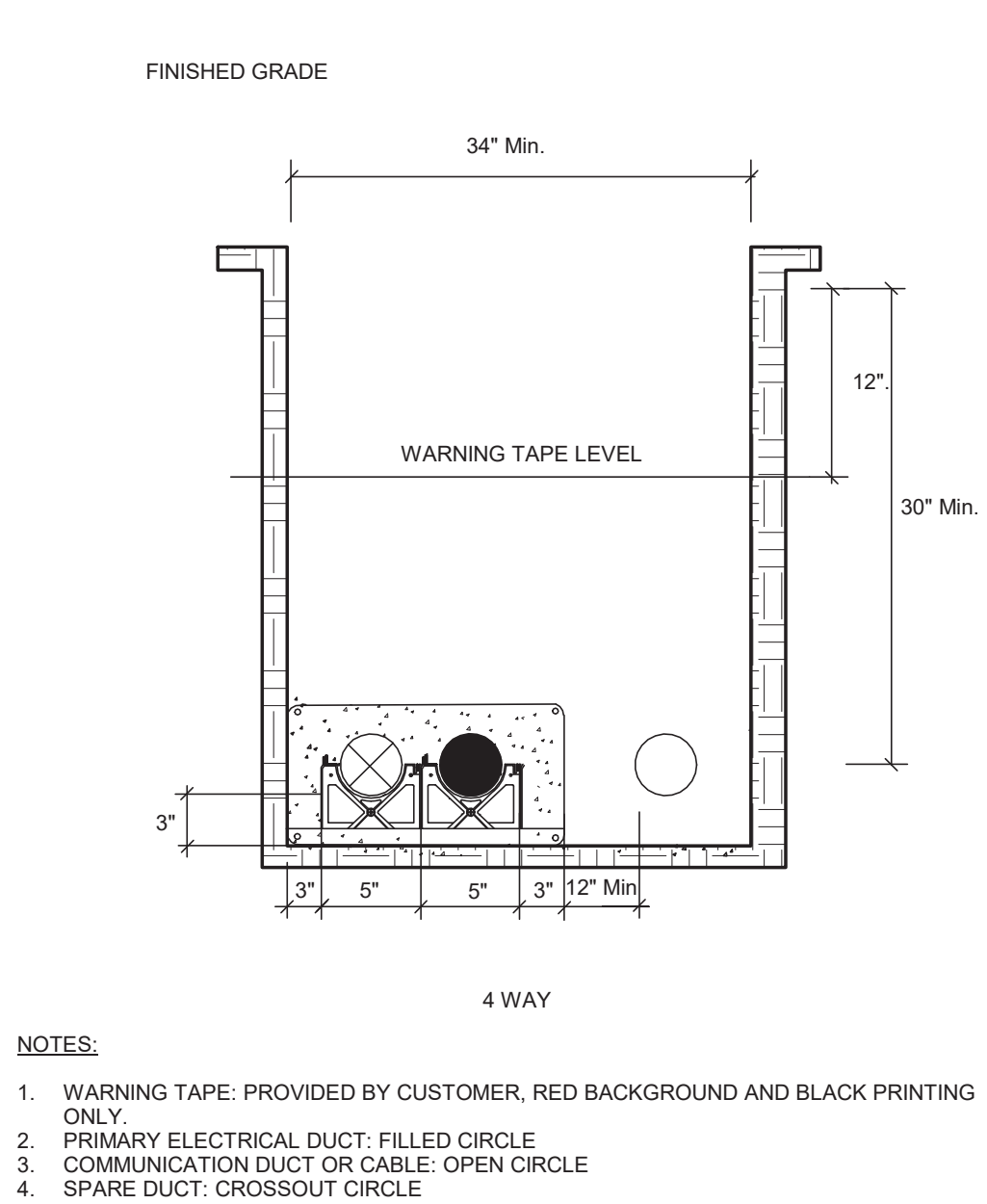
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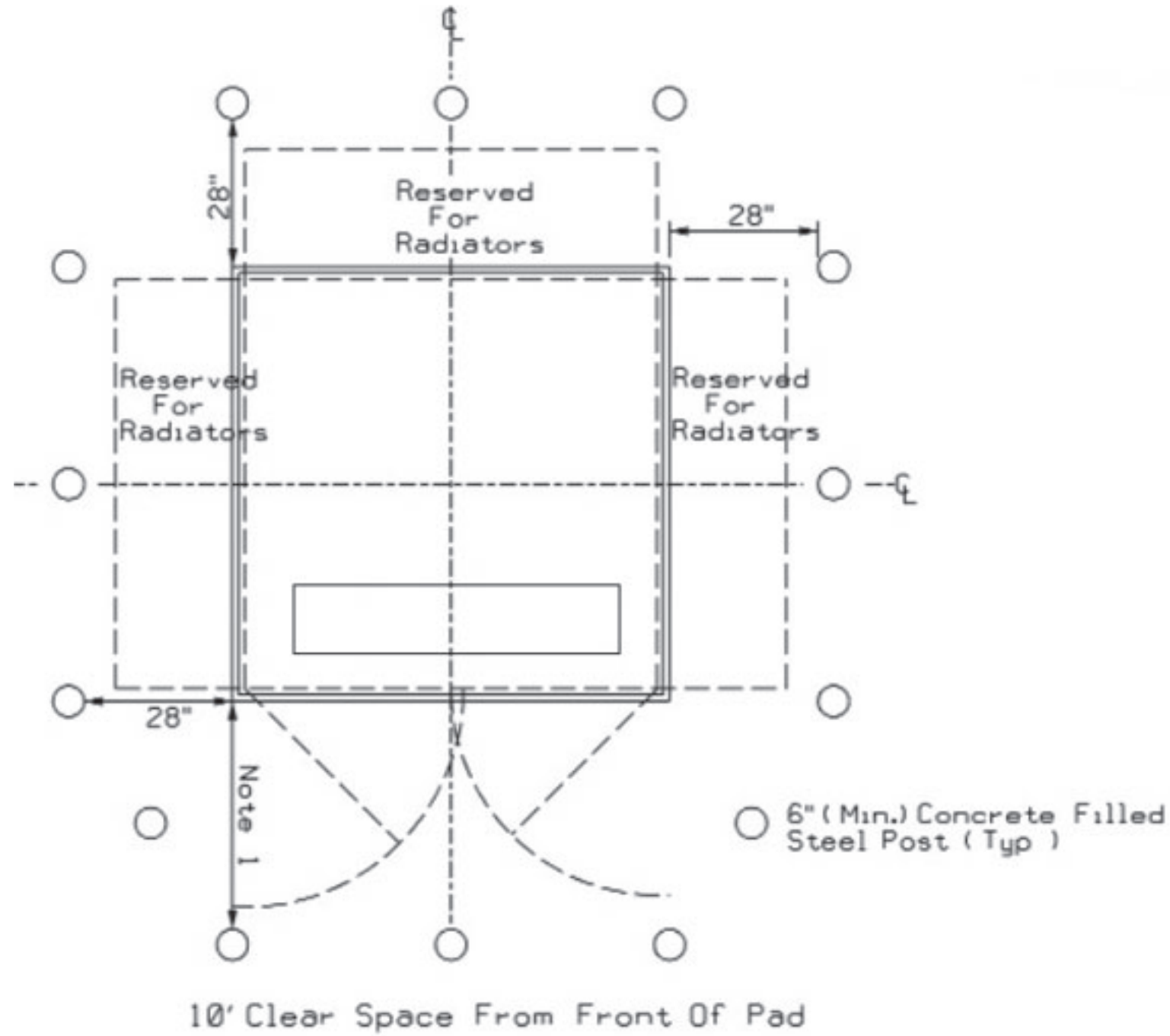
3 BELMONT LIGHT - MANHOLE GROUNDING DETAIL
NTS



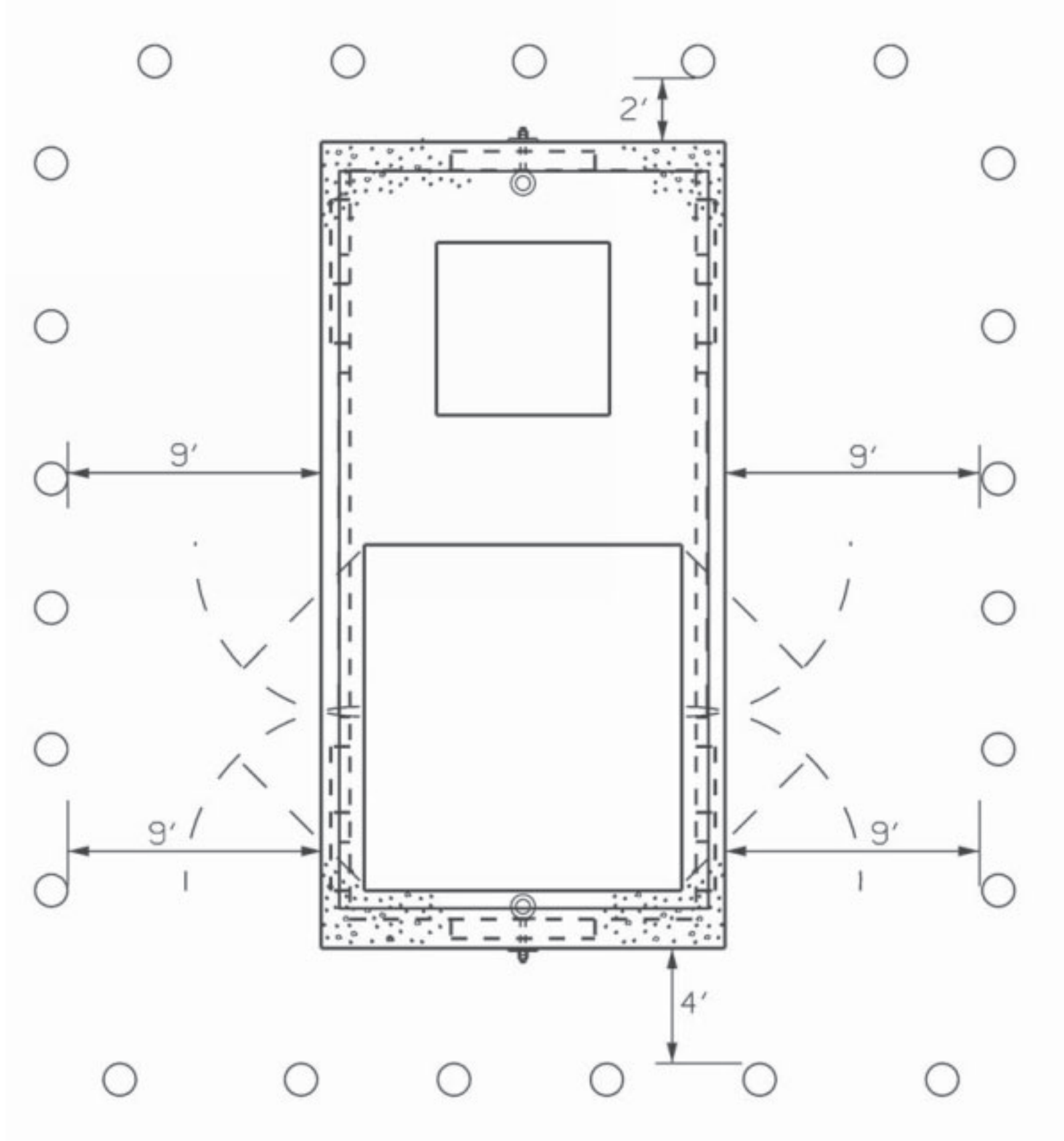
2 HANDHOLE DETAIL
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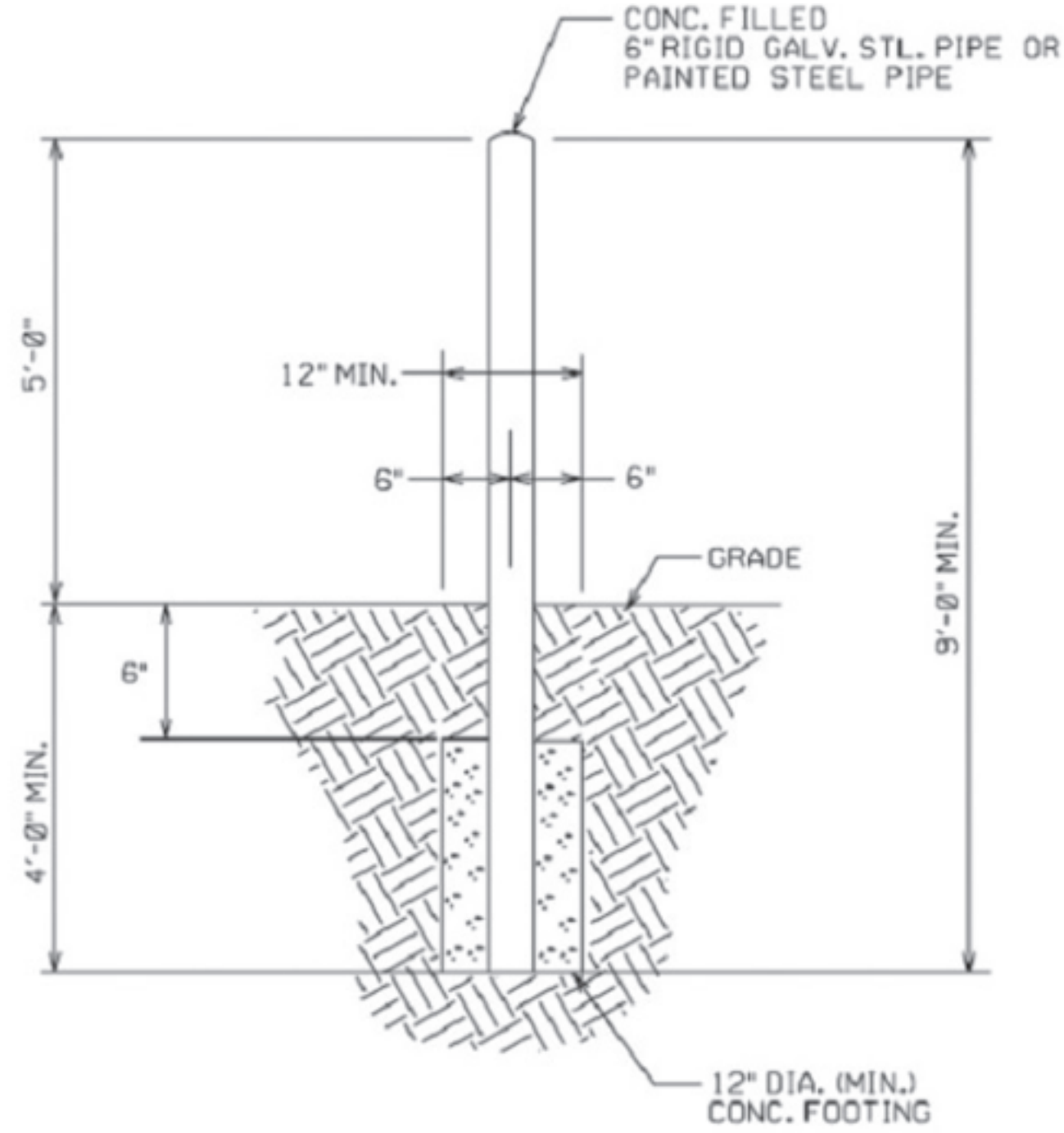
1 BELMONT LIGHT - CONCRETE ENCASED DUCT DETAIL
NTS



6 BELMONT LIGHT - TRANSFORMER BOLLARD REQUIREMENTS DETAIL
NTS



5 BELMONT LIGHT - SWITCHGEAR BOLLARD REQUIREMENTS DETAIL
NTS



4 BELMONT LIGHT - BOLLARD DETAIL
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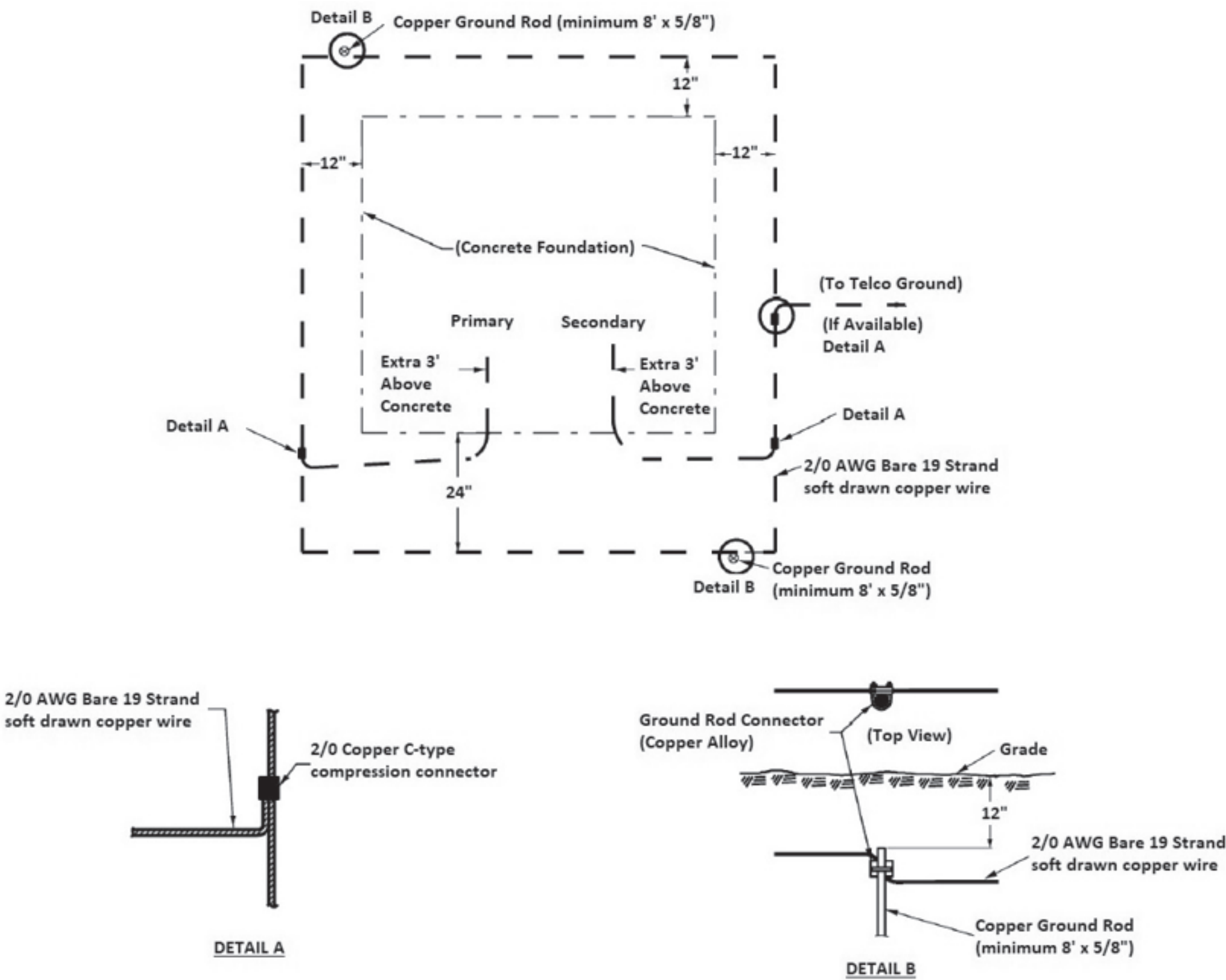
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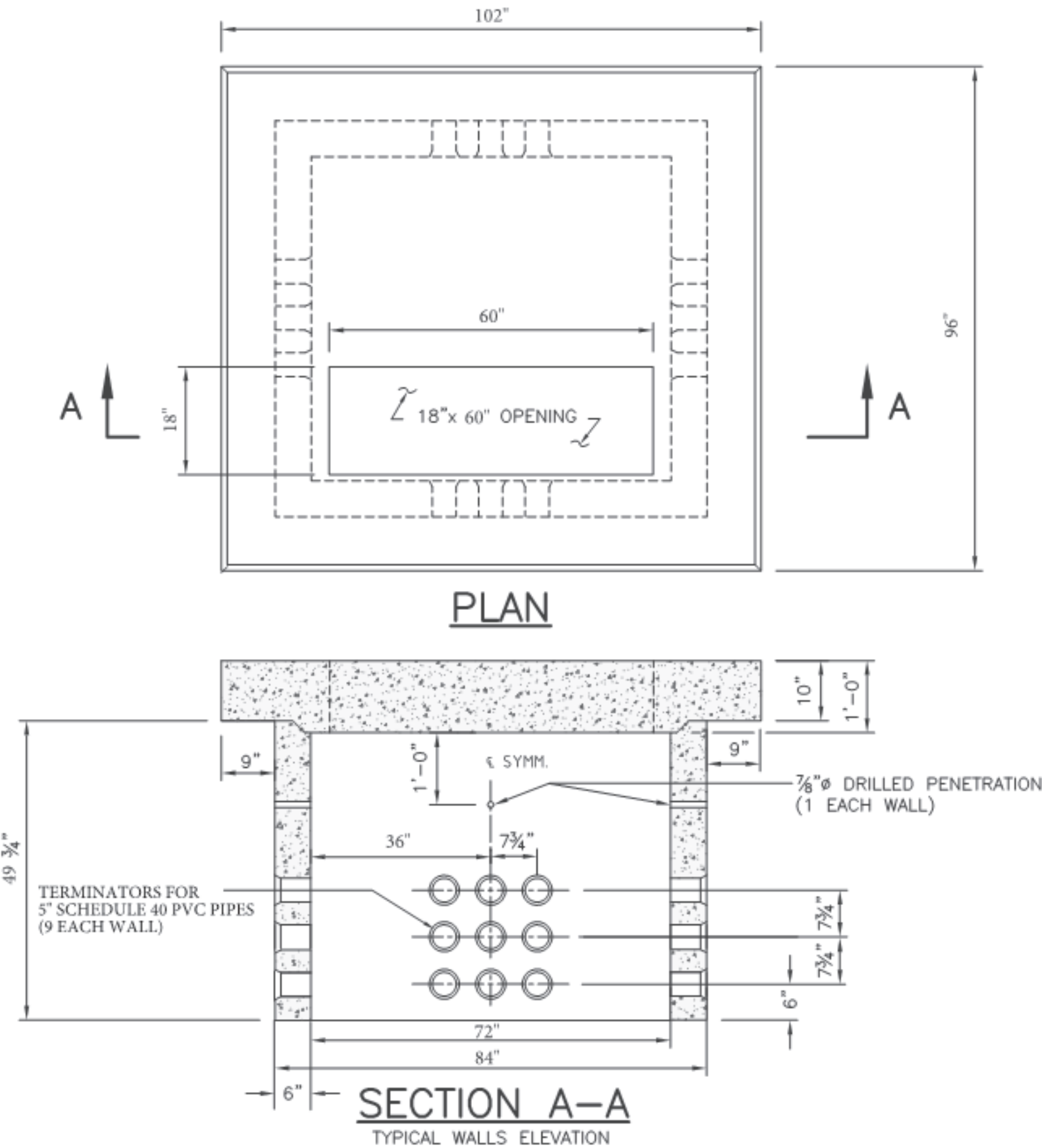
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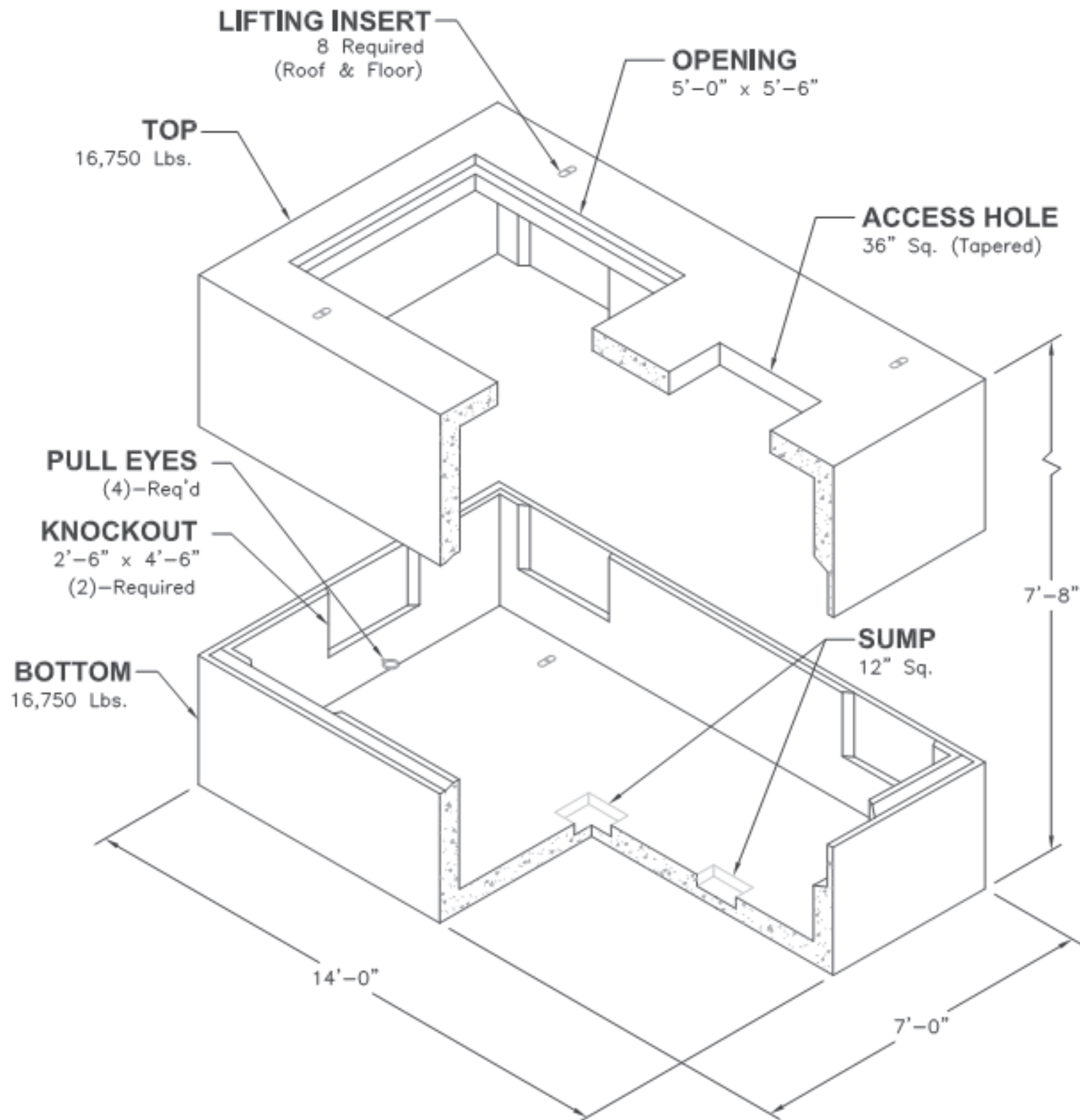
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2 BELMONT LIGHT - TRANSFORMER GROUND GRID DETAIL
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1 BELMONT LIGHT - TRANSFORMER VAULT DETAIL
NTS



3 BELMONT LIGHT - SWITCHGEAR VAULT DETAIL
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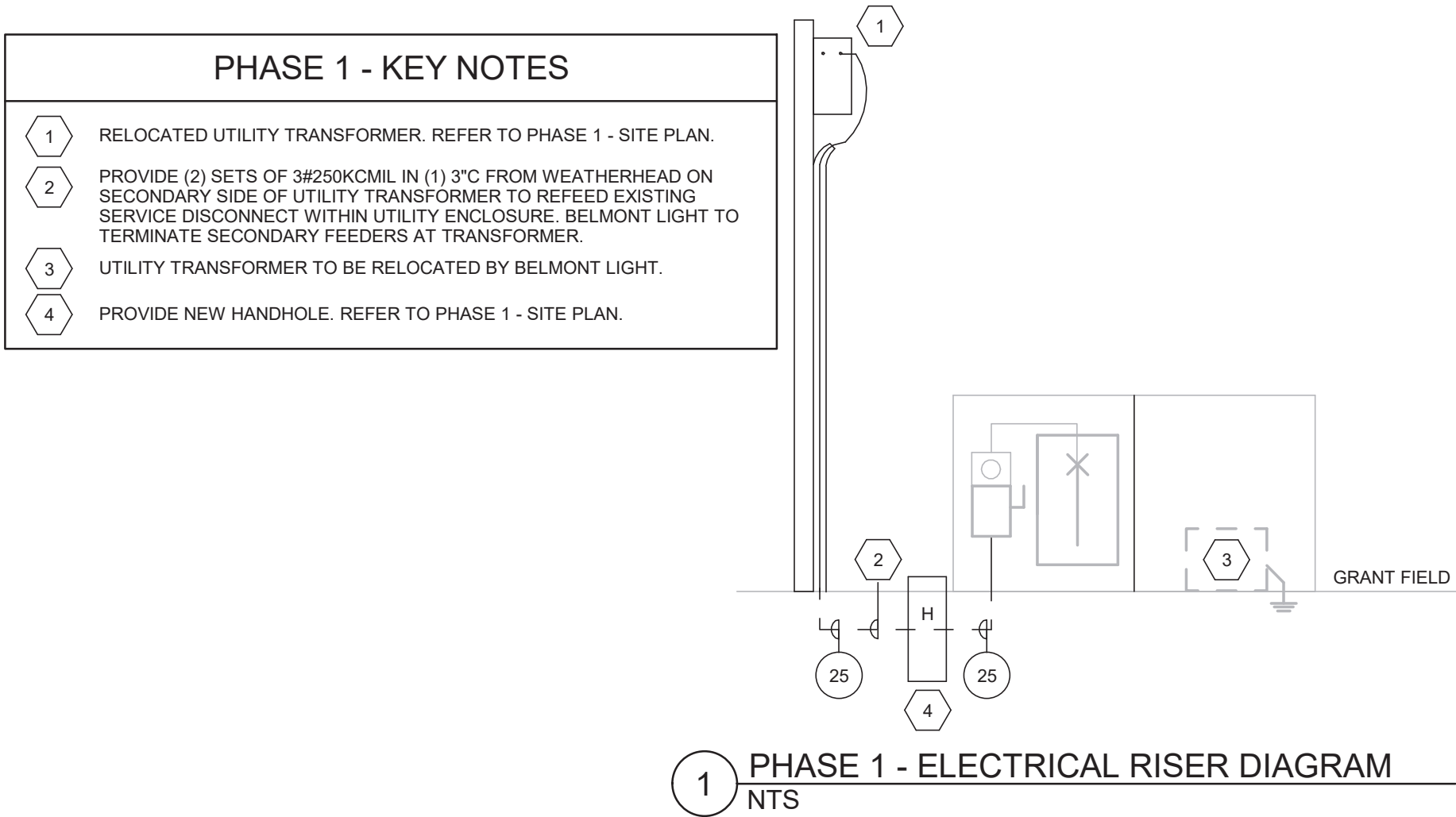
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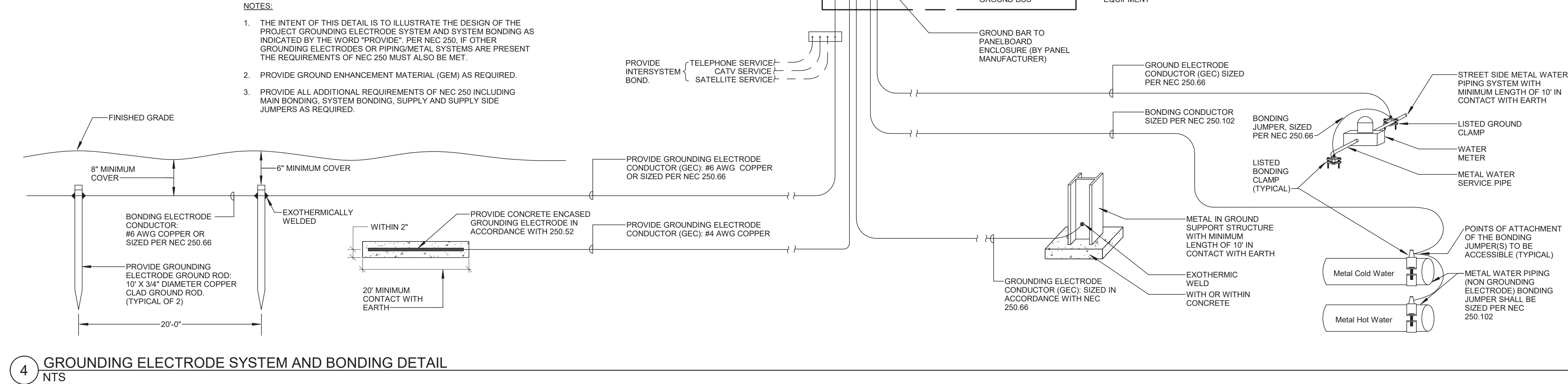
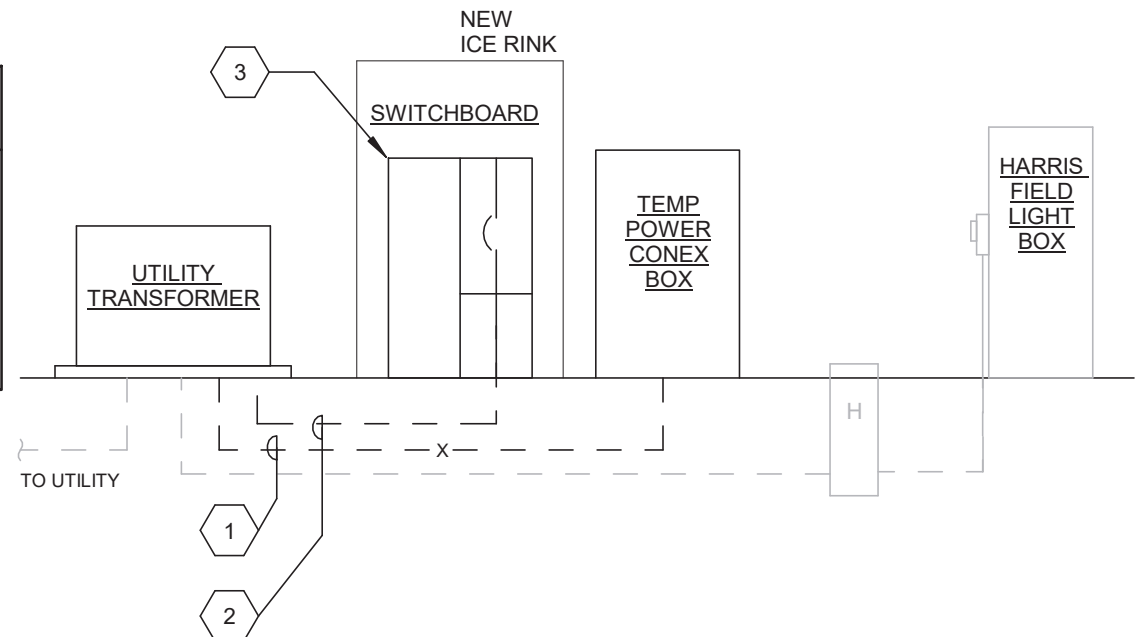
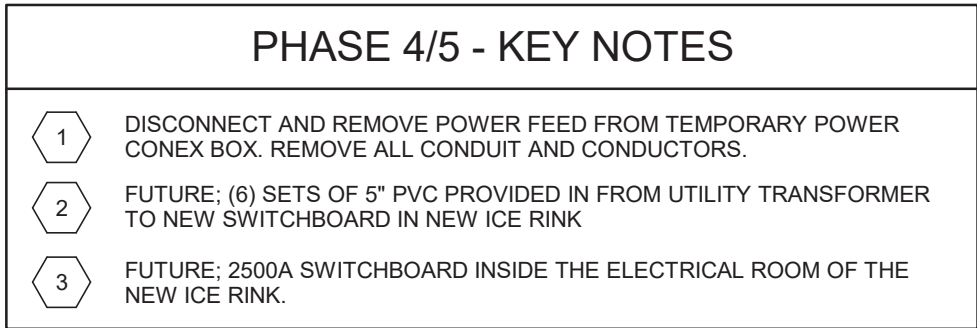
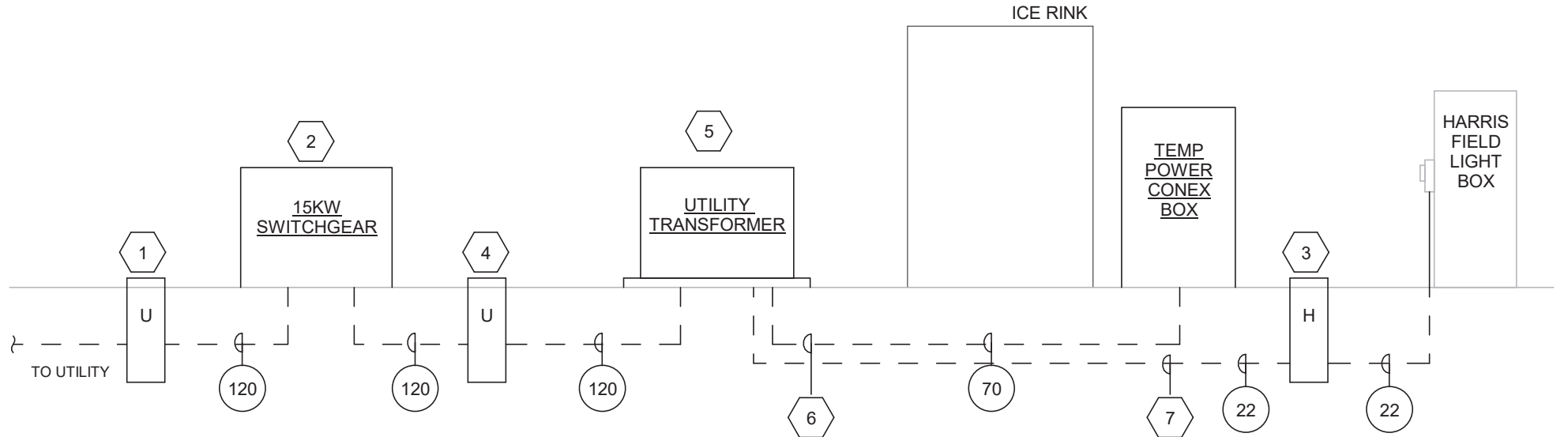
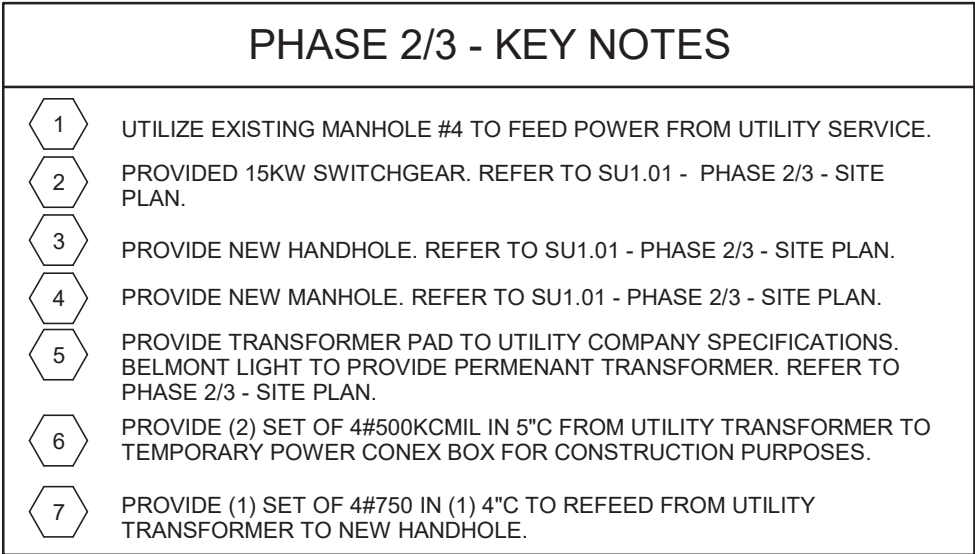
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ELECTRICAL FEEDER SCHEDULE						
COPPER CONDUCTORS						
CIRCUIT SYMBOL	CONDUCTORS (1 PH, 2W) WITH GROUND	CONDUIT SIZE	CONDUCTORS (1 OR 3 PH, 3 WIRE) WITH GROUND	CONDUIT SIZE	CONDUCTORS (3 PH, 4 WIRE) WITH GROUND	OVERCURRENT RATING
1	2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"	4#12 & 1#12G	15A
2	2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"	4#12 & 1#12G	20A
2.5	2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"	4#10 & 1#10G	25A
3	2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"	4#10 & 1#10G	30A
3.5	2#8 & 1#10G	1"	3#8 & 1#10G	1"	4#8 & 1#10G	35A
4	2#8 & 1#10G	1"	3#8 & 1#10G	1"	4#8 & 1#10G	40A
4.5	2#8 & 1#10G	1"	3#8 & 1#10G	1"	4#8 & 1#10G	45A
5	2#8 & 1#10G	1"	3#8 & 1#10G	1"	4#8 & 1#10G	50A
6	2#6 & 1#10G	1"	3#6 & 1#10G	1"	4#6 & 1#10G	60A
7	2#4 & 1#8G	1 1/4"	3#4 & 1#8G	1 1/4"	4#4 & 1#8G	70A
8	2#4 & 1#8G	1 1/4"	3#4 & 1#8G	1 1/4"	4#4 & 1#8G	80A
9	2#3 & 1#8G	1 1/4"	3#3 & 1#8G	1 1/4"	4#3 & 1#8G	90A
10	2#3 & 1#8G	1 1/4"	3#3 & 1#8G	1 1/4"	4#3 & 1#8G	100A
11			3#2 & 1#6G	1 1/4"	4#2 & 1#6G	110A
12			3#1 & 1#6G	1 1/2"	4#1 & 1#6G	125A
15			3#1/0 & 1#6G	2"	4#1/0 & 1#6G	150A
17			3#2/0 & 1#6G	2"	4#2/0 & 1#6G	175A
20			3#3/0 & 1#6G	2"	4#3/0 & 1#6G	200A
22			3#4/0 & 1#4G	2 1/2"	4#4/0 & 1#4G	225A
25			3#250KCMIL & 1#4G	3"	4#250KCMIL & 1#4G	250A
30			3#350KCMIL & 1#4G	3"	4#350KCMIL & 1#4G	300A
35			3#500KCMIL & 1#3G	4"	4#500KCMIL & 1#3G	350A
40			3#600KCMIL & 1#3G	4"	4#600KCMIL & 1#3G	400A
45	(2)3#4/0 & 1#2G	(2) 2 1/2"	2 SETS OF 4#4/0 & 1#2G	(2) 2 1/2"	(2) 2 1/2"	450A
50	(2)3#250KCMIL & 1#2G	(2) 3"	2 SETS OF 4#250KCMIL & 1#2G	(2) 3"	(2) 3"	500A
60	(2)3#350KCMIL & 1#1G	(2) 3"	2 SETS OF 4#350KCMIL & 1#1G	(2) 4"	(2) 4"	600A
70	(2)3#500KCMIL & 1#1/0G	(2) 4"	2 SETS OF 4#500KCMIL & 1#1/0G	(2) 4"	(2) 4"	700A
80	(2)3#600KCMIL & 1#1/0G	(2) 4"	2 SETS OF 4#600KCMIL & 1#1/0G	(2) 4"	(2) 4"	800A
90	(3)3#350KCMIL & 1#2/0G	(3) 3"	3 SETS OF 4#350KCMIL & 1#2/0G	(3) 4"	(3) 4"	900A
100	(3)3#500KCMIL & 1#2/0G	(3) 4"	3 SETS OF 4#500KCMIL & 1#2/0G	(3) 4"	(3) 4"	1000A
120	(4)3#350KCMIL & 1#3/0G	(4) 3"	4 SETS OF 4#350KCMIL & 1#3/0G	(4) 4"	(4) 4"	1200A
160	(4)3#600KCMIL & 1#4/0G	(4) 4"	4 SETS OF 4#600KCMIL & 1#4/0G	(4) 4"	(4) 4"	1600A
200	(5)3#600KCMIL & 1#250G	(5) 4"	5 SETS OF 4#600KCMIL & 1#250G	(5) 4"	(5) 4"	2000A
250	(6)3#600KCMIL & 1#350G	(6) 4"	6 SETS OF 4#600KCMIL & 1#350G	(6) 4"	(6) 4"	2500A

NOTES:

- CONDUIT SIZES ARE BASED ON THE NEC ANNEX C TABLES FOR EMT/SCH 40 WITH THHN/THWN CONDUCTORS. CONDUCTOR SIZES USED IN CONDUIT CALCULATION ARE BASED ON THE SIZE OF THE HOT CONDUCTORS OF CIRCUIT. EXAMPLE: 40A 3PH, 4W CONDUIT SIZE IS BASED ON 4# 8 + 1#8G + 1#8 "SPACE". FOR ACTUAL WIRE INSTALL USE QUANTITY AND SIZES WITHIN SCHEDULE.
- UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CIRCUIT WHERE INDICATED.
- PROVIDE MINIMUM SIZE CONDUIT INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
- FOR SINGLE PHASE FEEDERS, PROVIDE A 3-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL. FOR THREE PHASE FEEDERS, PROVIDE A 4-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL.
- PROVIDE TYPE OF RACEWAY OR CABLE AS INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
- REFER TO PANELBOARD SCHEDULES AND ONE-LINE RISER DIAGRAM DRAWINGS FOR CONDUCTOR AND CONDUIT SIZE REQUIREMENTS.
- ALL CONDUCTOR SIZES ARE BASED ON 75°C (167°F). ALL EQUIPMENT CONNECTED TO WIRES SHALL BE RATED OR 75°C (167°F)



4 GROUNDING ELECTRODE SYSTEM AND BONDING DETAIL
NTS



Project Number
2202

Project Title
Belmont Skating &
Sports Facility

297 Concord Ave,
Belmont, MA 02478

Drawing Title
ELECTRICAL
ENABLING RISER
DIAGRAMS

Date/Issued For

11.15.2023

ISSUED FOR 90% CD

Scale

N.T.S.

Drawn By

CWW

Drawing Number

SU1.05