

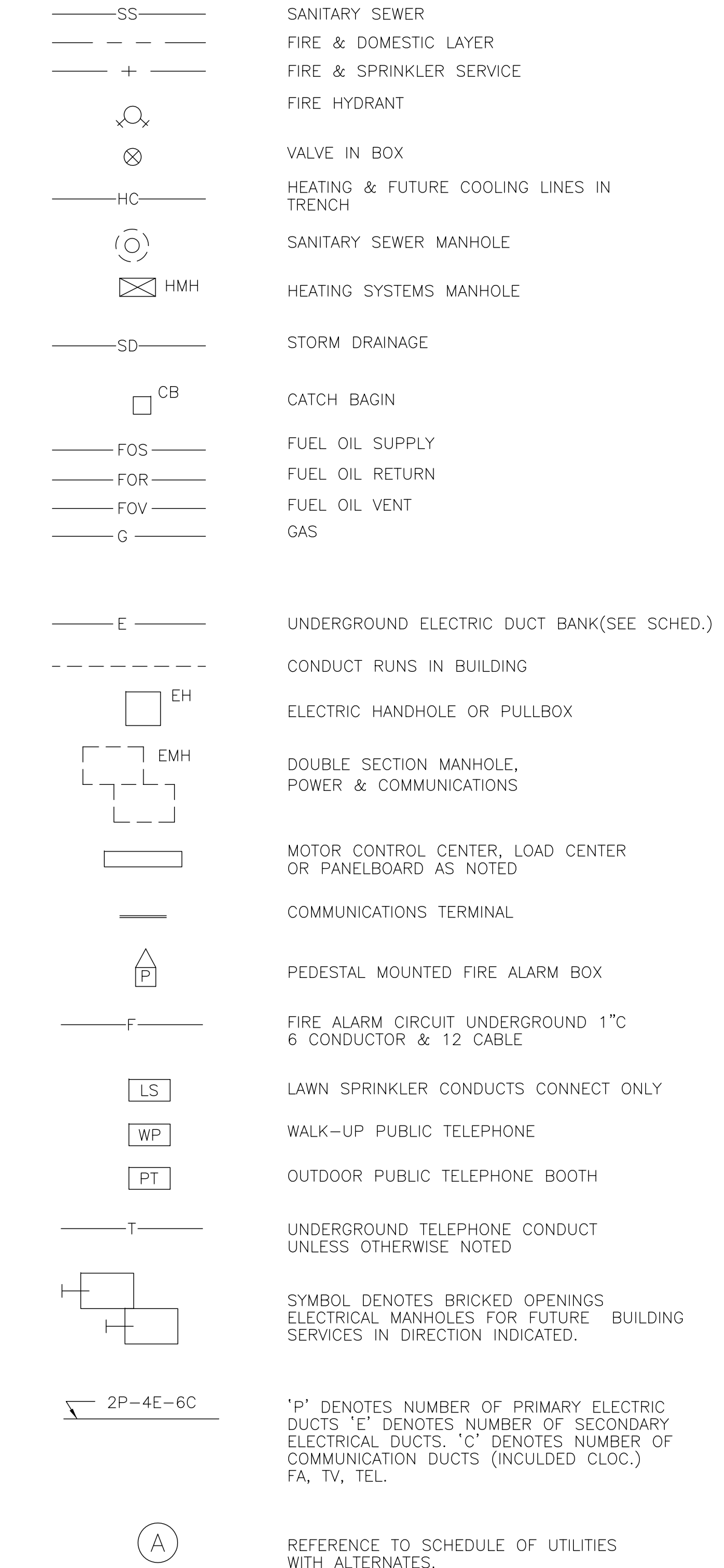
NOTES (ELECTRICAL)

- A ALL DUCTS BEYOND THE 5- FEET MARK EXTERIOR OF BUILDINGS SHALL BE CEMENT ASBESTOS OR FIBER CONCRETE-ENCASED.
- B ALL DUCTS TO BE 4" DIAMETER UNLESS OTHERWISE INDICATED.
- C ALL CONDUITS OR DUCTS FROM 5- FEET OUTSIDE BUILDING TO MAIN DISTRIBUTION POINT INSIDE BUILDING SHALL BE RIGID STEEL PROVIDE REQUIRED ADAPTATION DEVICES & ACCESSORIES FOR CONNECTING DUCTS TO RIGID STEEL CONDUITS.
- D ANY CONFIGURATION OF DUCT BANK SECTIONS NOT SHOWN ON SHEET SU-6 SHALL BE AS DIRECTED.
- E TERMINATE STUB-UPS AS DIRECTED BY TELEPHONE COMPANY AT OUTDOOR BOOTH LOCATIONS PROVIDE PULLBOX AND 1/2" CONDUIT UP PIPE STANDARDS AT "WALK-UP" TYPE TELEPHONES IN ACCORD TEL. CO. REQUIREMENTS.
- F BRICKED OPENINGS IN MANHOLES FOR FUTURE DUCT SHALL BE 2'-FT. BY 2'-FT. UNLESS OTHERWISE NOTED. PROVIDE REINFORCING BARS AROUND OPENINGS AS DIRECTED.
- G FIRE ALARM SHALL BE IN RIGID STEEL CONDUIT. CONCRETE ENC'S'D.
- H SEE SHEET E-52 FOR CLOCK DIST. WIRING.
- I WHERE MANHOLES CROSS OTHER UTILITIES AND OR PLANTERS. ETC. LOCATE BELOW GRADE IF REQUIRED AND PROVIDE EXTENSION RINGS UP TO SURFACE OF FINISHED GRADE.
- J HANDHOLES SHALL BE SIMILAR TO BROOKS PRODUCTS CATALOG HTP-1350 SERIES EXCEPT INSIDE DIMENSIONS SHALL BE 5'-FT. SQUARE AND 42 INCHES DEEP (WITH CHECKERED PLATE TOP COVER)
- K SEE NOTE 6 & 7 BELOW.

NOTES (MECHANICAL)

- 1. LOCATION DIMENSIONS OF HEATING TRENCHES ARE FROM COLUMN LINES TO INSIDE FACE OF TRENCH
- 2. PROVIDE 4" DRAIN IN BOTTOM OF TRENCHES AT ALL INTERSECTIONS CONNECT TO NEAREST STORM DRAIN
- 3. FOR TRENCH DETAILS SEE SHEET SU-8.
- 4. ALL EXPANSION JOINTS IN TRENCHES TO BE SIZED FOR 3"(MIN.) TRANSVERSE.
- 5. SECONDARY TRENCH FROM MHM No. 21 TO POOL EQUIPMENT ROOM TO BE 2'-0" WIDE WITH NO PROVISIONS FOR FUTURE PIPES.
- 6. FOR UTILITY CONNECTIONS TO BUILDINGS. SEE INDIVIDUAL BUILDING FLOOR PLANS.
- 7. FOR ALTERNATE UTILITIES LAYOUT SEE "SCHEDULE OF UTILITIES TO BE EXCLUDED FROM BASE BID AND INCLUDED IN ALTERNATES."

LEGENDS

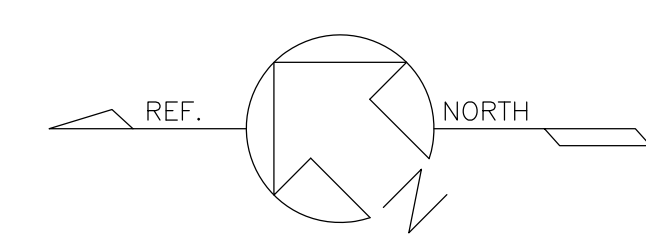


HEATING MANHOLE SCHEDULE

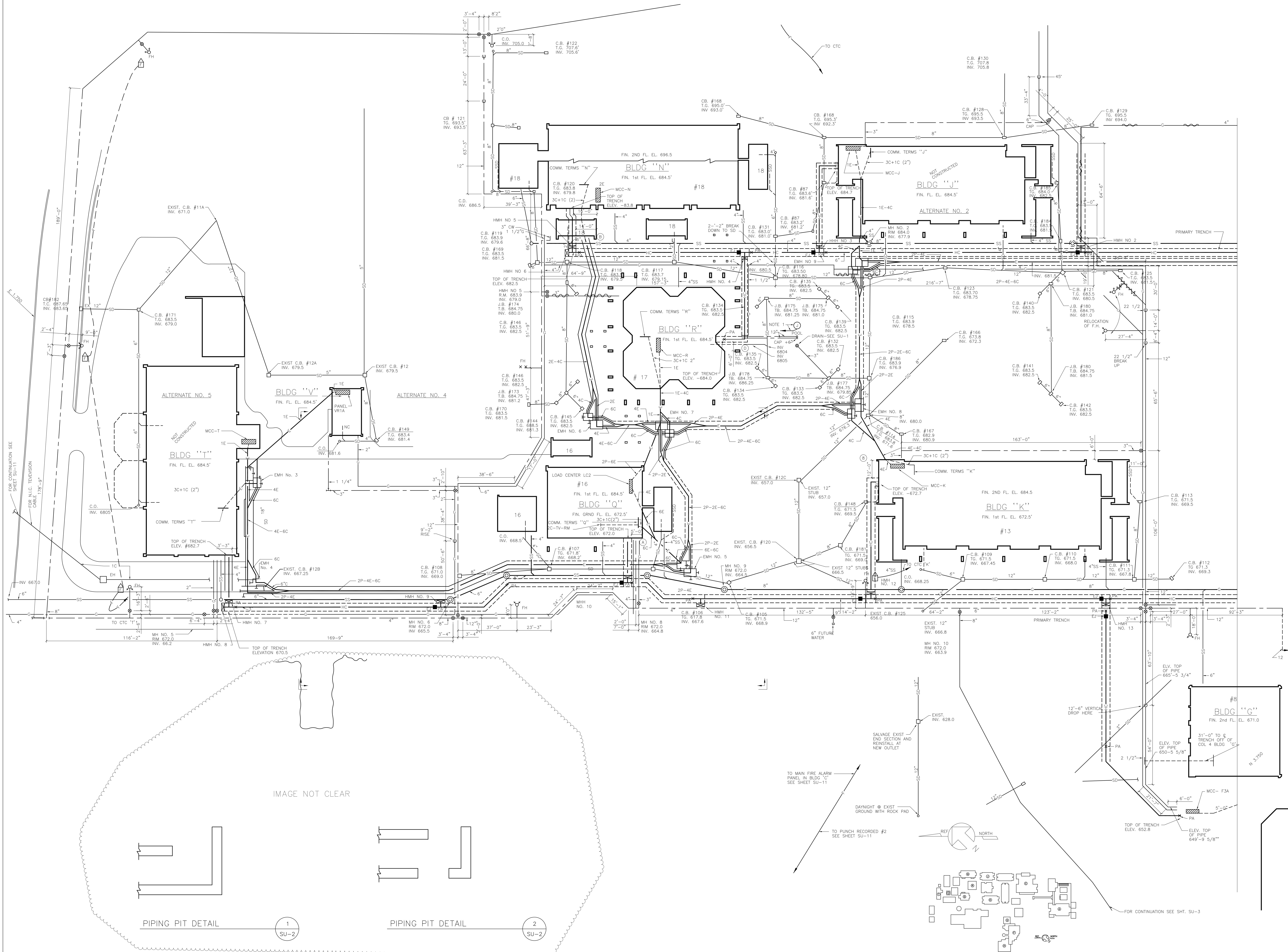
MHM No.	HWS & HWR PIPE SIZE	VALVE TYPE
1	6"	BUTTERFLY VALVE
2	3"	PLUG VALVE W/ BLIND FLANGE
3	3"	
4	2"	
5	3"	
6	4"	W/ BLIND FLANGE
7	2"	
8	2"	W/ BLIND FLANGE
9	3"	W/ BLIND FLANGE
10	2"	
11	3"	W/ BLIND FLANGE
12	3"	
13	3"	
14	6"	BUTTERFLY VALVE
15	6"	BUTTERFLY VALVE
16	3"	PLUG VALVE W/ BLIND FLANGE
17	2"	
18	3"	
19	4"	
20	2"	W/ BLIND FLANGE
21	3"	
22	3"	W/ BLIND FLANGE

NOTE:—
REFERENCE SHEET SU-3 FOR "SCHEDULE OF UTILITIES TO BE EXCLUDED FROM BASE BID AND INCLUDED IN ALTERNATES"

AS BUILT NOTES ALL DIMENSIONS FOR HEATING PIPING CAN BE TAKEN DIRECT FROM DIMENSIONS SN-1 AND SN-2.



SITE UTILITIES
BUILDING A & C AREA
SCALE 1"=20' DATE 2-20-67 JOB NO: 5386



SITE UTILITIES
CENTRAL MALL
SCALE AS SHOWN DATE JOB NO: 1967

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DOUGLAS BAYLUS
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ARCHITECTS
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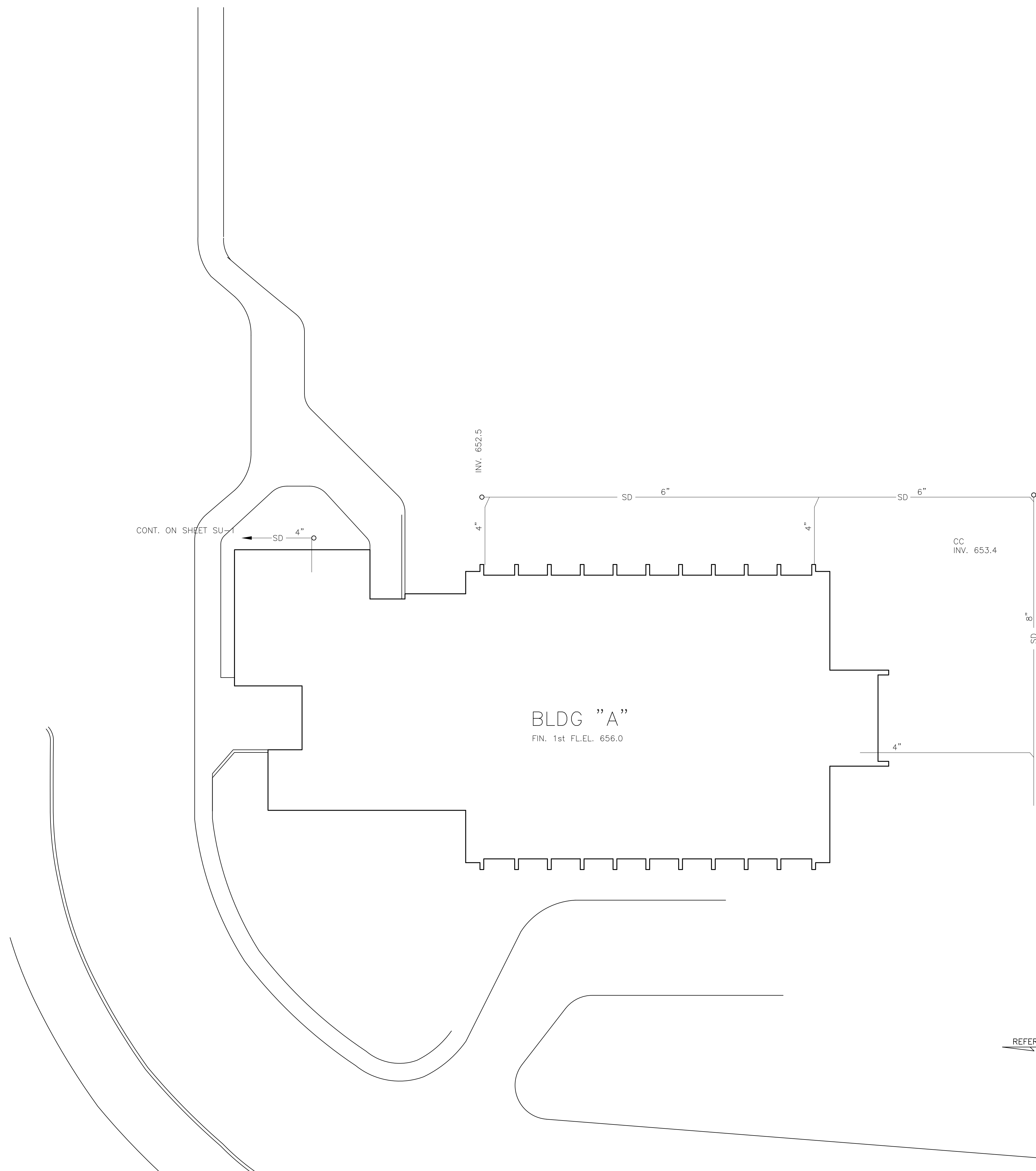
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SU-2

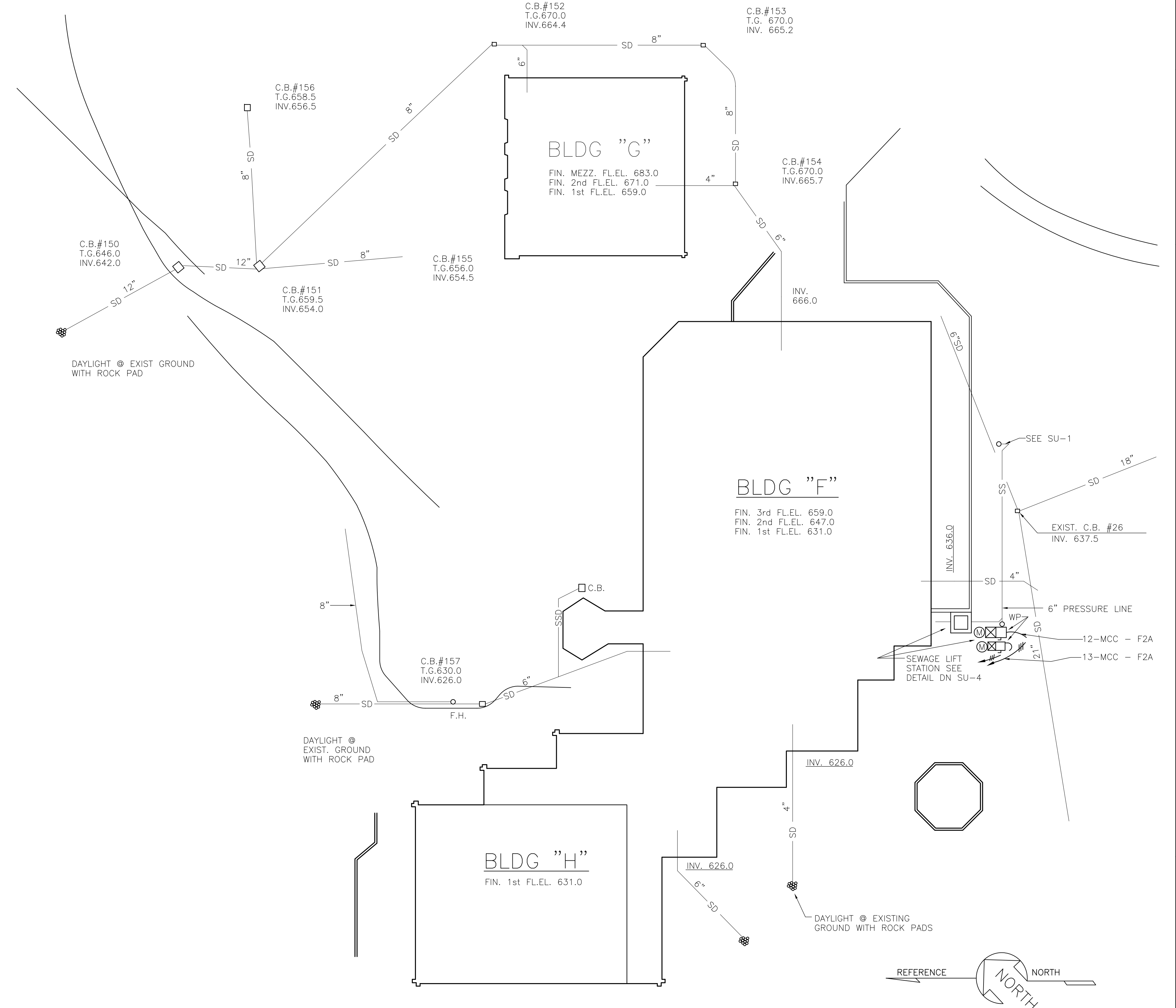
SCHEDULE OF UTILITIES TO BE EXCLUDED FROM BASE BID AND INCLUDED IN ALTERNATES

ALTERNATE	HEATING AND TRENCH PIPING	SANITARY SEWER	STORM DRAINAGE	GAS	WATER	IRRIGATION	ELECTRICAL
ALTERNATE 2 BLDG. J	PIPING AND TRENCH FROM HHM NO. 3 TO BUILDING "J" PROVIDE SHUT-OFF VALVES AND BLIND FLANGES.	SANITARY SEWERS FROM MH NO. 2 AND 8" MAIN TO BUILDING "J" PROVIDE STUB OUTS FOR FUTURE CONNECTION.	CD #185 AND STORM DRAIN FROM CB #185 TO BLDG. "J"	2" GAS LINE SERVING BUILDING "J" PROVIDE BRANCH SHUT-OFF VALVE AND CAP.	3" WATER LINE SERVING BUILDING "J" PROVIDE BRANCH SHUT-OFF VALVE AND CAP.	IRRIGATION SYSTEM BEYOND POINT "H" PROVIDE SHUT-OFF VALVE AND CAP.	"E-40" BETWEEN EMH NO. 3 & BUILDING "J" TERMINATE CONDUCTORS FOR THESE CIRCUITS IN EMH NO. 3 WITH 2'-FT. PICTALS & TAPE. SEE NOTE 2.
ALTERNATE 4 BLDG. V	-	-	-	2" GAS LINE SERVING BUILDING "V" PROVIDE BRANCH SHUT-OFF VALVE AND CAP.	3" WATER LINE SERVING BUILDING "V" PROVIDE BRANCH SHUT-OFF VALVE AND CAP.	IRRIGATION SYSTEM BEYOND POINT "H" PROVIDE SHUT-OFF VALVE AND CAP.	"E" BETWEEN EMH NO. 3 & BUILDING "V" TERMINATE CONDUCTORS FOR THESE CIRCUITS IN EMH NO. 3 WITH 2'-FT. PICTALS & TAPE.
ALTERNATE 5 BLDG. T	PIPING AND TRENCH FROM HHM NO. 7 TO BUILDING "T" PROVIDE SHUT-OFF VALVE AND BLIND FLANGES.	SANITARY SEWER FROM MH NO. 1 TO BUILDING "T" PROVIDE STUB-OUT FOR FUTURE CONNECTION.	ALL STORM DRAIN FROM BUILDING "T" TO CB #171	2" GAS LINE SERVING BUILDING "T" PROVIDE BRANCH SHUT-OFF VALVE AND CAP.	2" WATER LINE SERVING BUILDING "T" PROVIDE BRANCH SHUT-OFF VALVE AND CAP.	IRRIGATION SYSTEM BEYOND POINT "H" PROVIDE SHUT-OFF VALVE AND CAP.	"E" AND "3CTIC" BETWEEN EMH NO. 3 & BUILDING "T" TERMINATE CONDUCTORS FOR THESE CIRCUITS IN EMH NO. 3 WITH 2'-FT. PICTALS & TAPE.
ALTERNATE 7 POOLS	PIPING AND TRENCH FROM HHM NO. 21 TO POOLS. PROVIDE SHUT-OFF VALVE AND BLIND FLANGES.	SEE TO POOLS AT 2'-0" BEYOND BUILDING "A" AND PLUG (REFERENCE DWG. P-1 BUILDING "A")	CR#183, CB #184, CB #185 AND ALL STORM DRAIN FROM BUILDING "A" EXISTING CB #183 TO POOLS	2 1/2" CW AND 6" FIRE SUCTION LINE TO POOLS AT 2'-0" BEYOND BUILDING AND CAP. PROVIDE SHUT-OFF VALVE FOR CW (REFERENCE DWG. F-1 BUILDING "A")	2 1/2" CW AND 6" FIRE SUCTION LINE TO POOLS AT 2'-0" BEYOND BUILDING AND CAP. PROVIDE SHUT-OFF VALVE FOR CW (REFERENCE DWG. F-1 BUILDING "A")	IRRIGATION SYSTEMS BEYOND POINTS "E" AND "D" PROVIDE SHUT-OFF VALVES AND CAP AT CURB.	FEDERS FROM MCC-10A TO MCC-10B (REFERENCE DWGS E-1 AND E-3, BUILDING "A")
ALTERNATE 8 BLDG. A	PIPING AND TRENCH FROM HHM NO. 18 TO BUILDING "A" PROVIDE SHUT-OFF VALVE AND BLIND FLANGES.	SS FROM MH NO. 18 TO BUILDING "A" PROVIDE STUB-OUT FOR FUTURE CONNECTION.	CB #183 AND ALL STORM DRAIN TO BUILDING "A"	ALL WATER PIPING SERVING BUILDING "A" PROVIDE BRANCH SHUT-OFF VALVE AND CAP.	ALL WATER PIPING SERVING BUILDING "A" PROVIDE BRANCH SHUT-OFF VALVE AND CAP.	IRRIGATION SYSTEMS BEYOND POINTS "E" AND "D" PROVIDE SHUT-OFF VALVES AND CAP AT CURB.	"E-40" BETWEEN EMH NO. 13 & BUILDING "A" TERMINATE CONDUCTORS FOR THESE CIRCUITS IN EMH NO. 13 WITH 2'-FT. PICTALS & TAPE.

- NOTES (UTILITIES ALTERNATES)
- ALTERNATES #1, #3, AND #6 ARE NOT APPLICABLE TO MECHANICAL AND ELECTRICAL WORK.
 - IF BUILDING "V" IS CONSTRUCTED AND BUILDING "T" IS NOT CONSTRUCTED, EXTEND 480 - VOLT FEEDER FROM EMH NO. 3 TO BUILDING "V" PROVIDE 30 KVA, 480-208Y/120V TRANSFORMER, COMPLETE WITH SHUNT-TRIP OPERATED CIRCUIT BREAKER ON PRIMARY SIDE FOR FEED TO PANEL V18 (REFERENCE DWGS. E-4, BUILDING "T" AND E-7, BUILDING "V")
 - WHERE ELECTRIC DUCK BANK HAS BEEN DELETED UNDER ALTERNATE, PROVIDE WINDOW IN MANHOLE.



ALTERNATE PLAN OF BLDG "A" WITHOUT POOLS ETC.

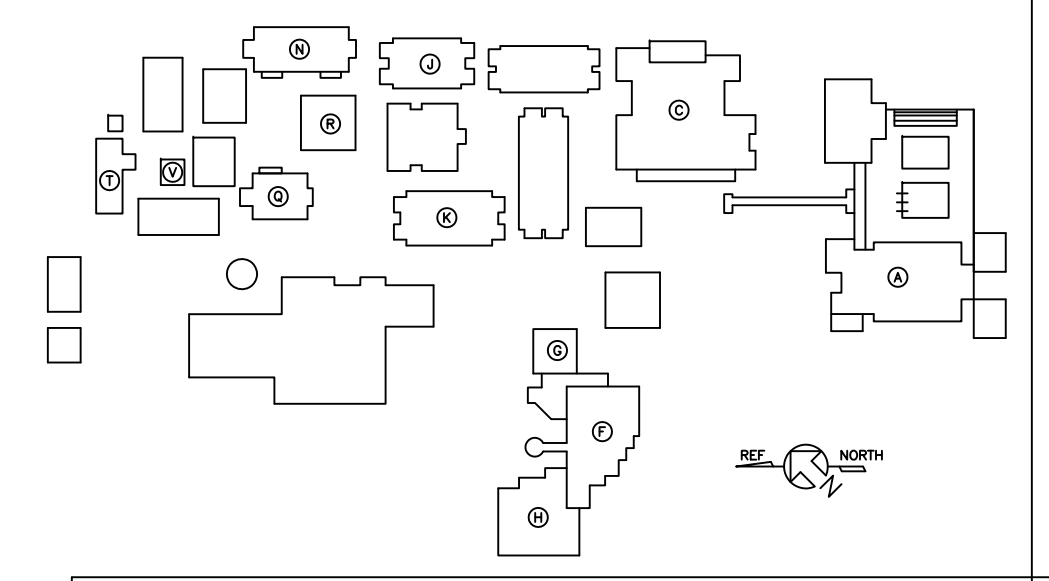


PLAN OF AREA WITH BLDGS G, H & F

BLDG J SHOWN DOTTED

SEE SHEET SU-2 FOR STORM DRAINS IN THIS AREA THE ONLY CHANGE IN STORM DRAINS FOR THE ALTERNATE IS THE DELETE OF C.B.#85 AND THE PIPE FROM C3#184

ALTERNATE PLAN FOR AREA WITHOUT BLDG "J"



SITE UTILITIES
BLDGS "G,H,F" ALTERNATES

SCALE AS SHOWN DATE JOB NO:

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MECHANICAL & ELECTRICAL ENGINEERS
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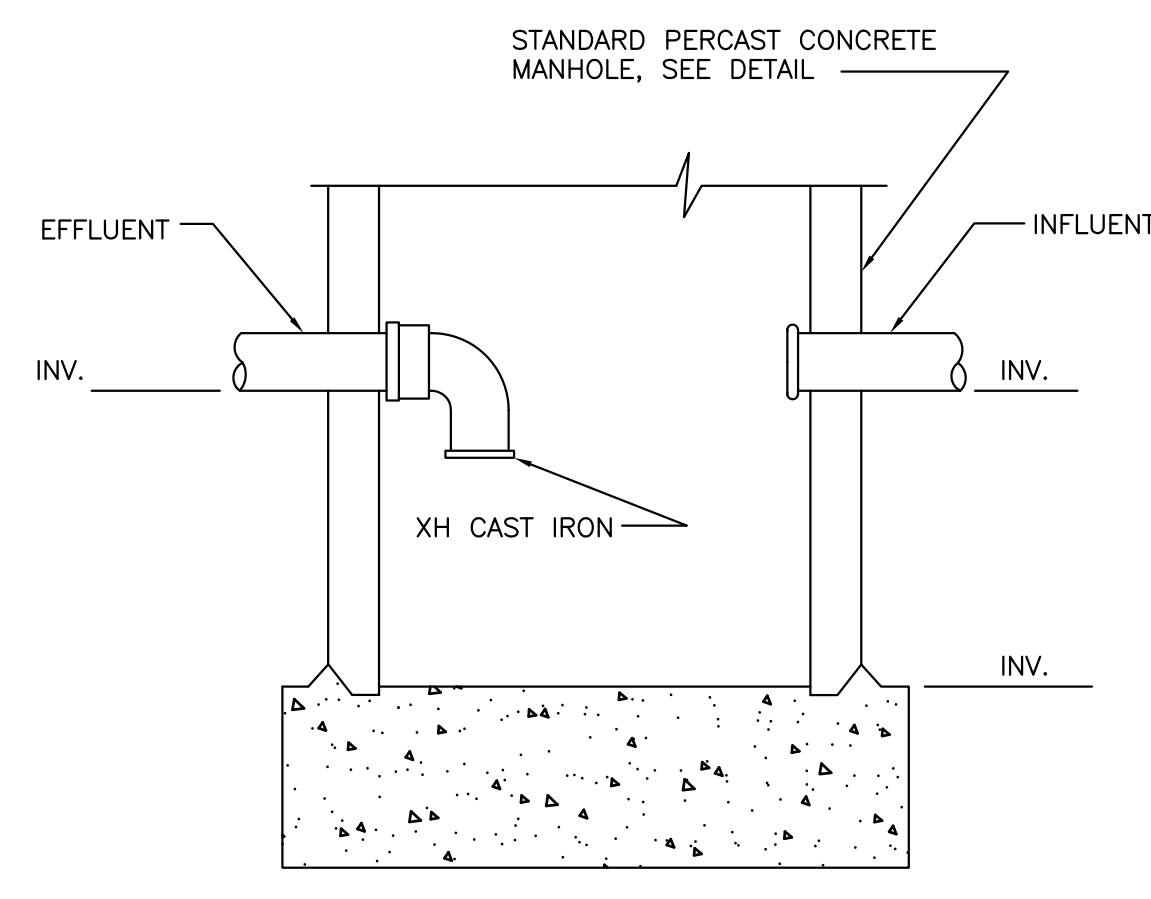
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CHAN/RADER AND ASSOCIATES

WELTON BECKETT AND ASSOCIATES - CHAN/RADER AND ASSOCIATES ARCHITECTS
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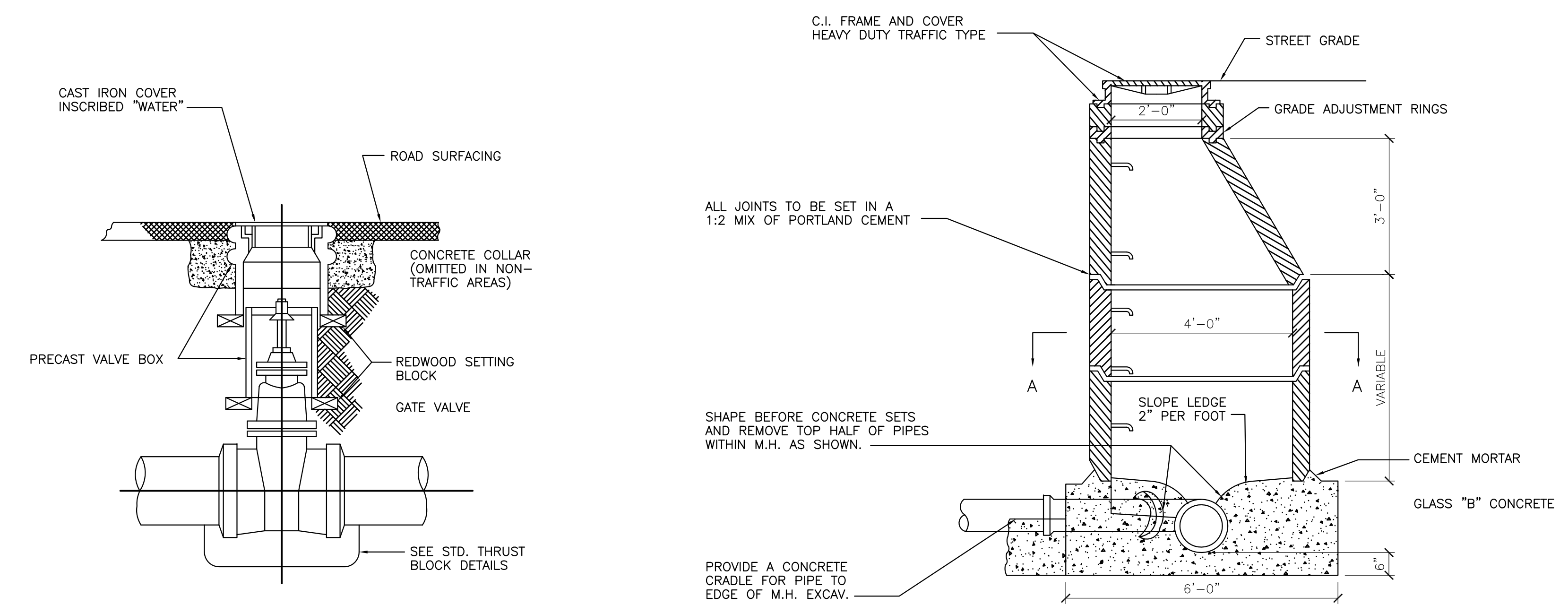
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REDWOOD CITY, CALIFORNIA

MATEO V. PASARAO
JULIO L. BORTOLUZZO
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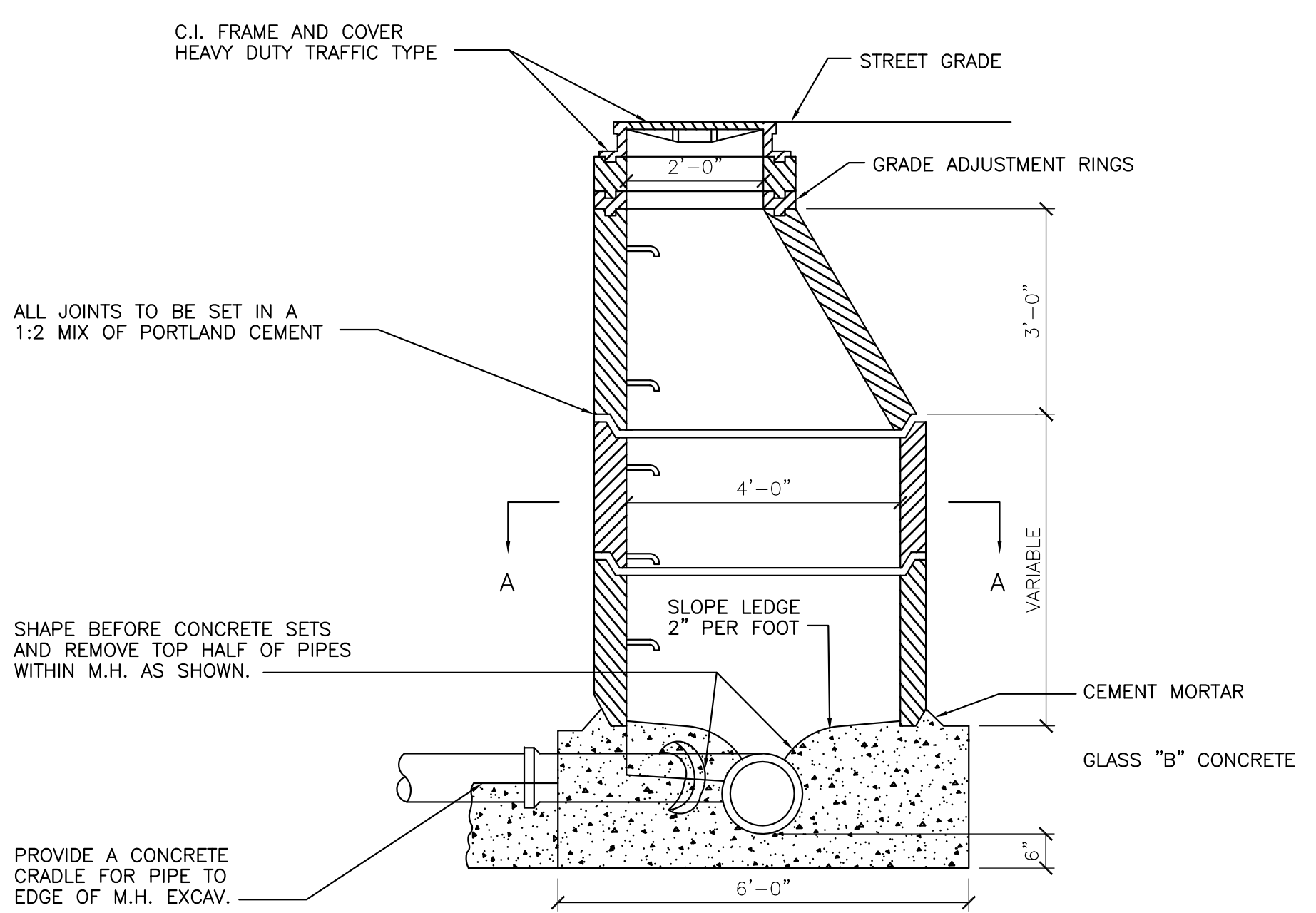
SU-3



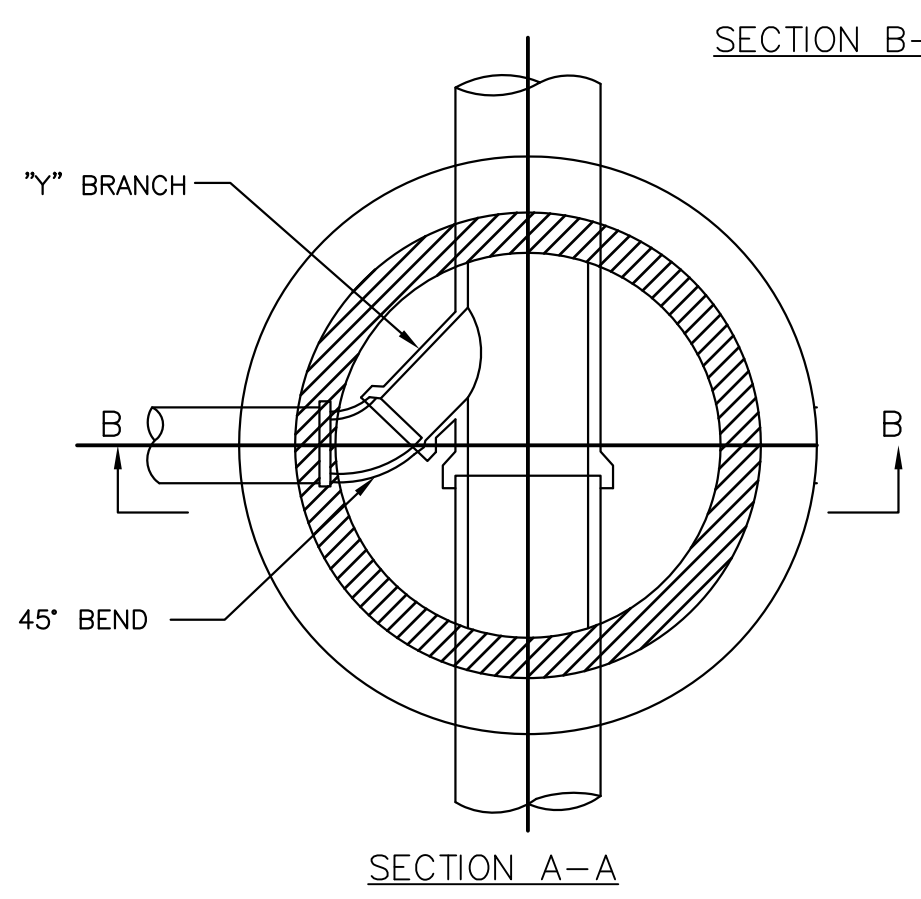
CHEMICAL WASTE DILUTION TANK
NO SCALE



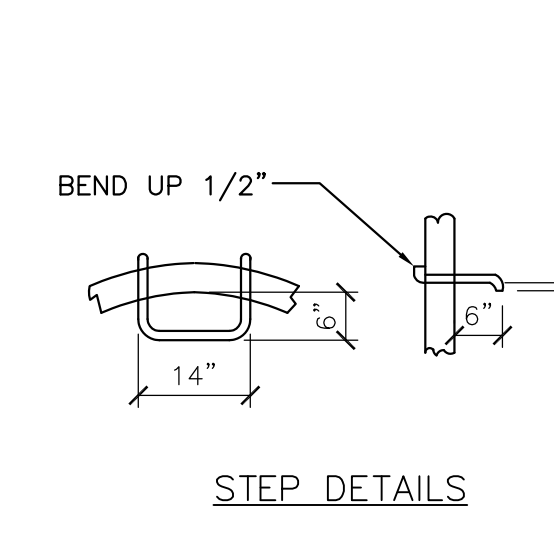
GATE VALVE ASSEMBLY
NO SCALE



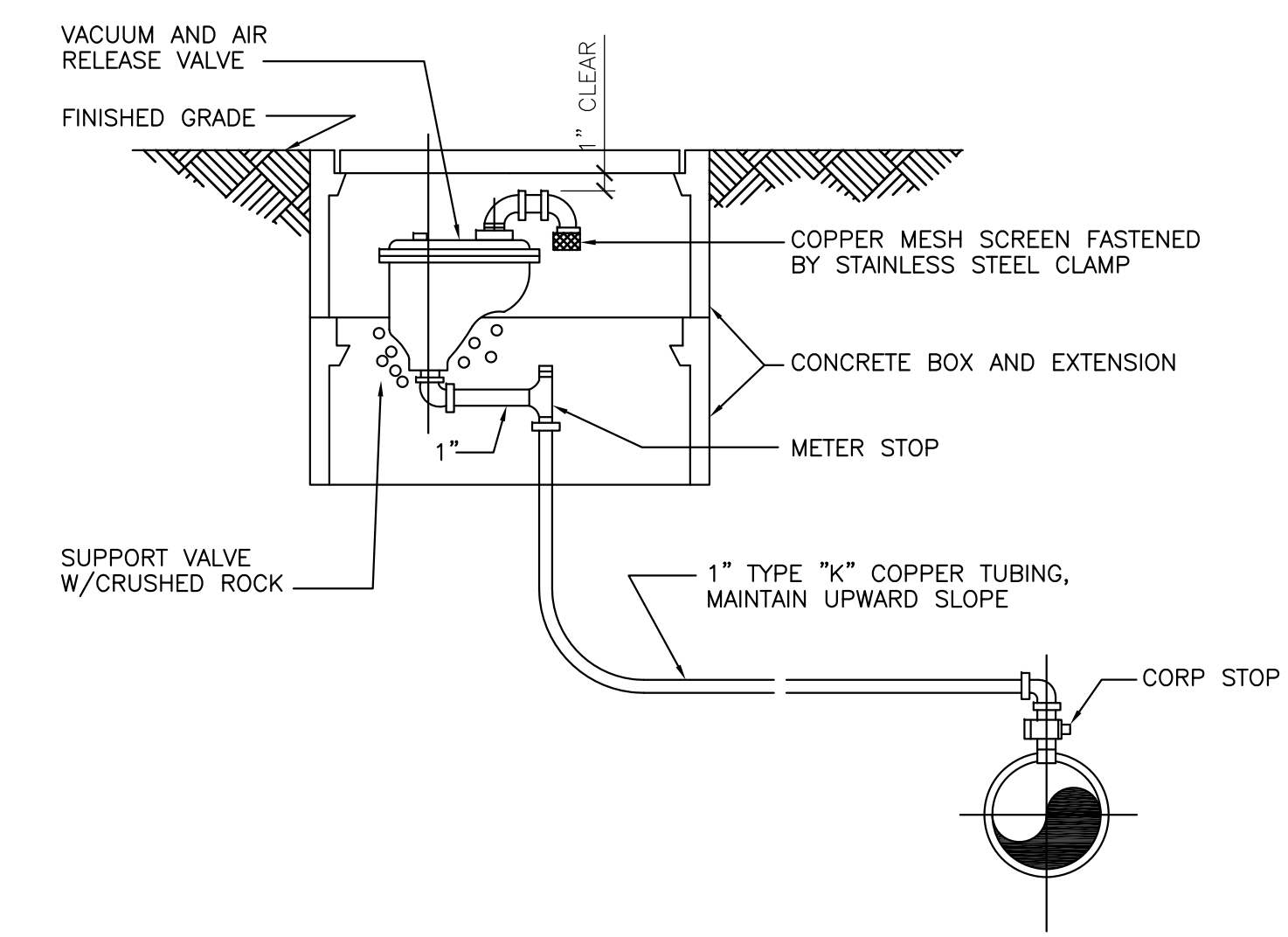
STANDARD PRECAST CONCRETE MANHOLE
NO SCALE



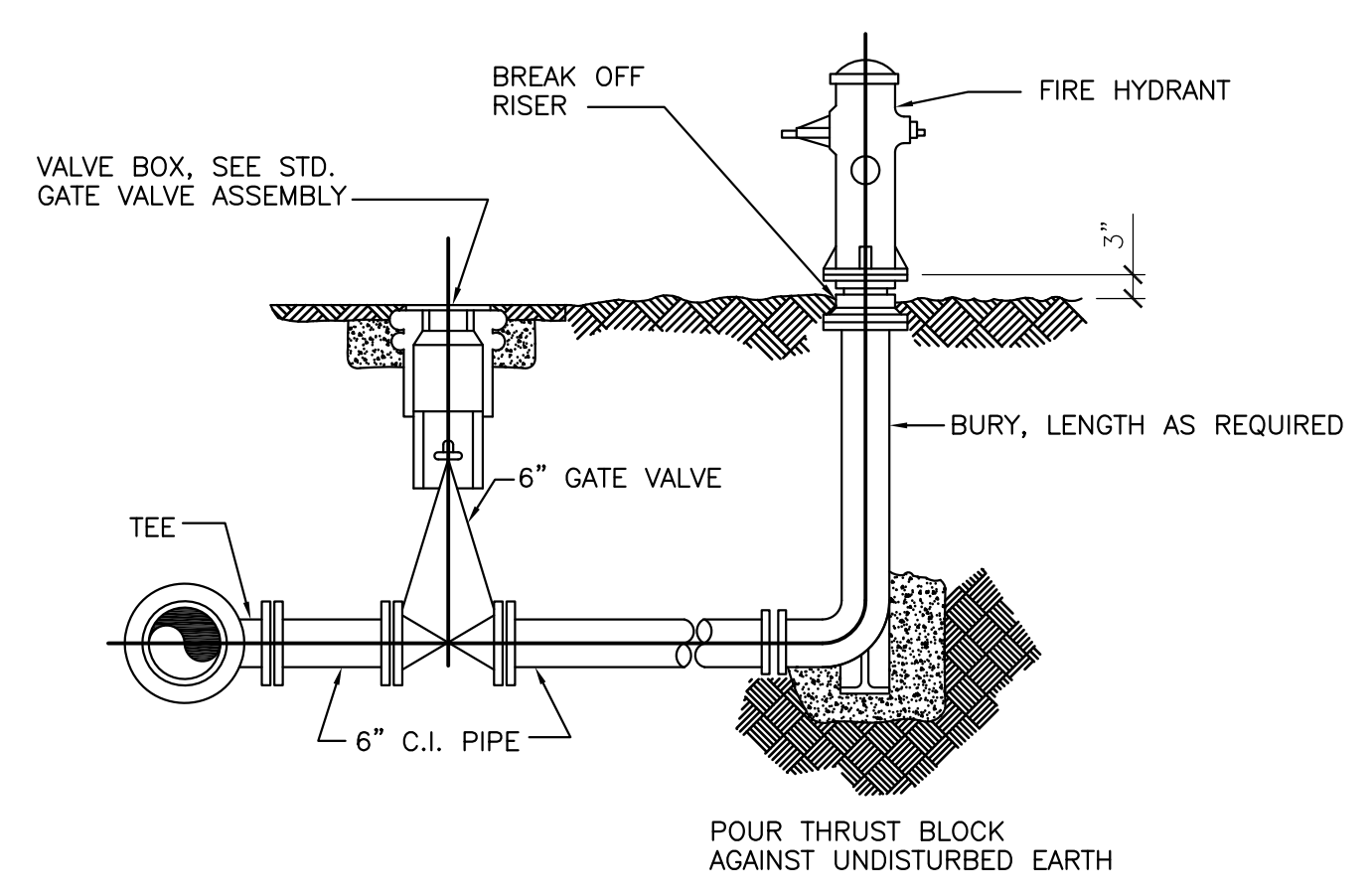
STANDARD PRECAST CONCRETE MANHOLE
NO SCALE



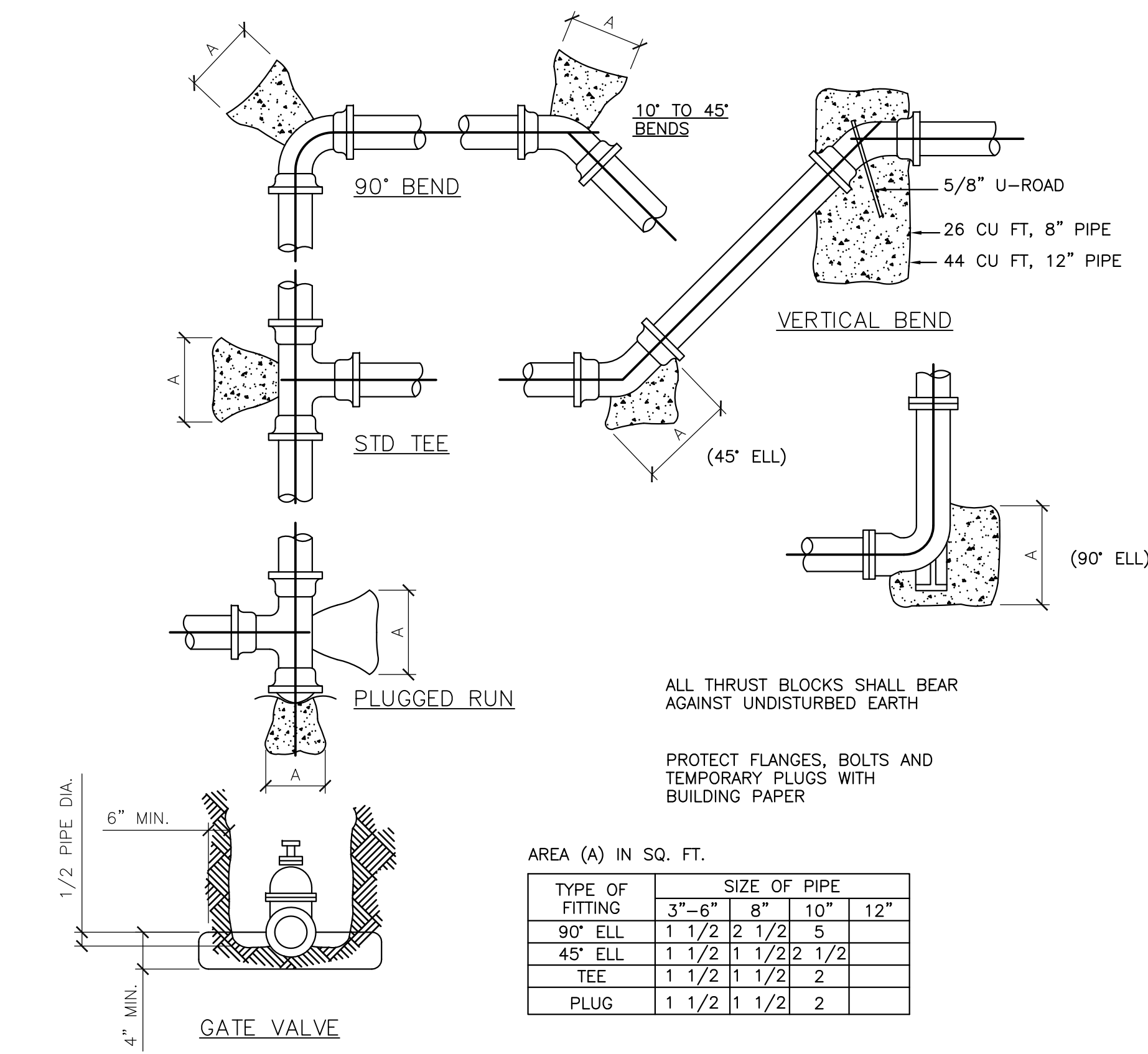
STEP DETAILS



AIR AND VACUUM RELEASE AND AIR RELEASE VALVE
NO SCALE

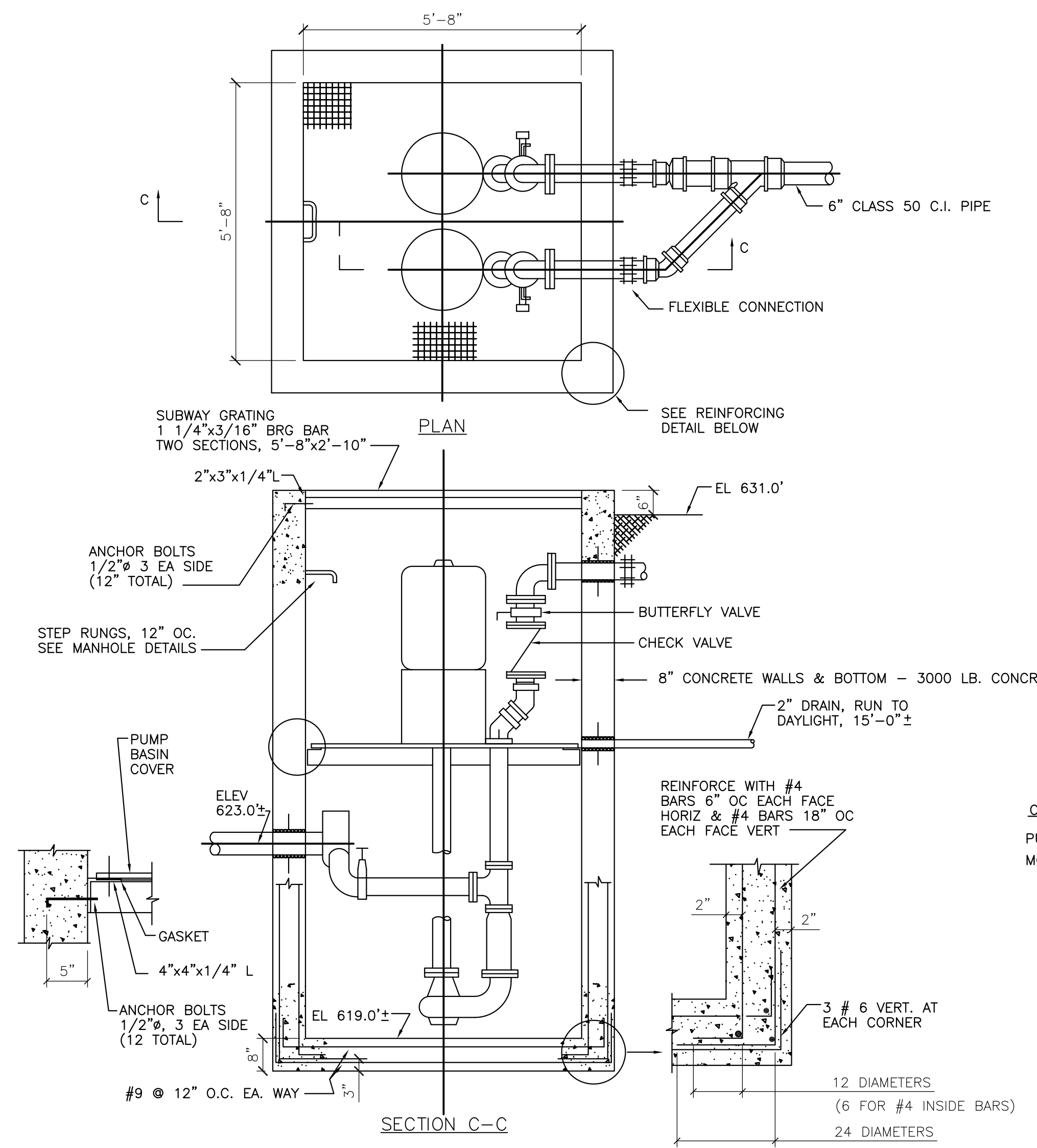


STANDARD FIRE HYDRANT ASSEMBLY
NO SCALE



STANDARD THRUST BLOCK DETAILS
NO SCALE

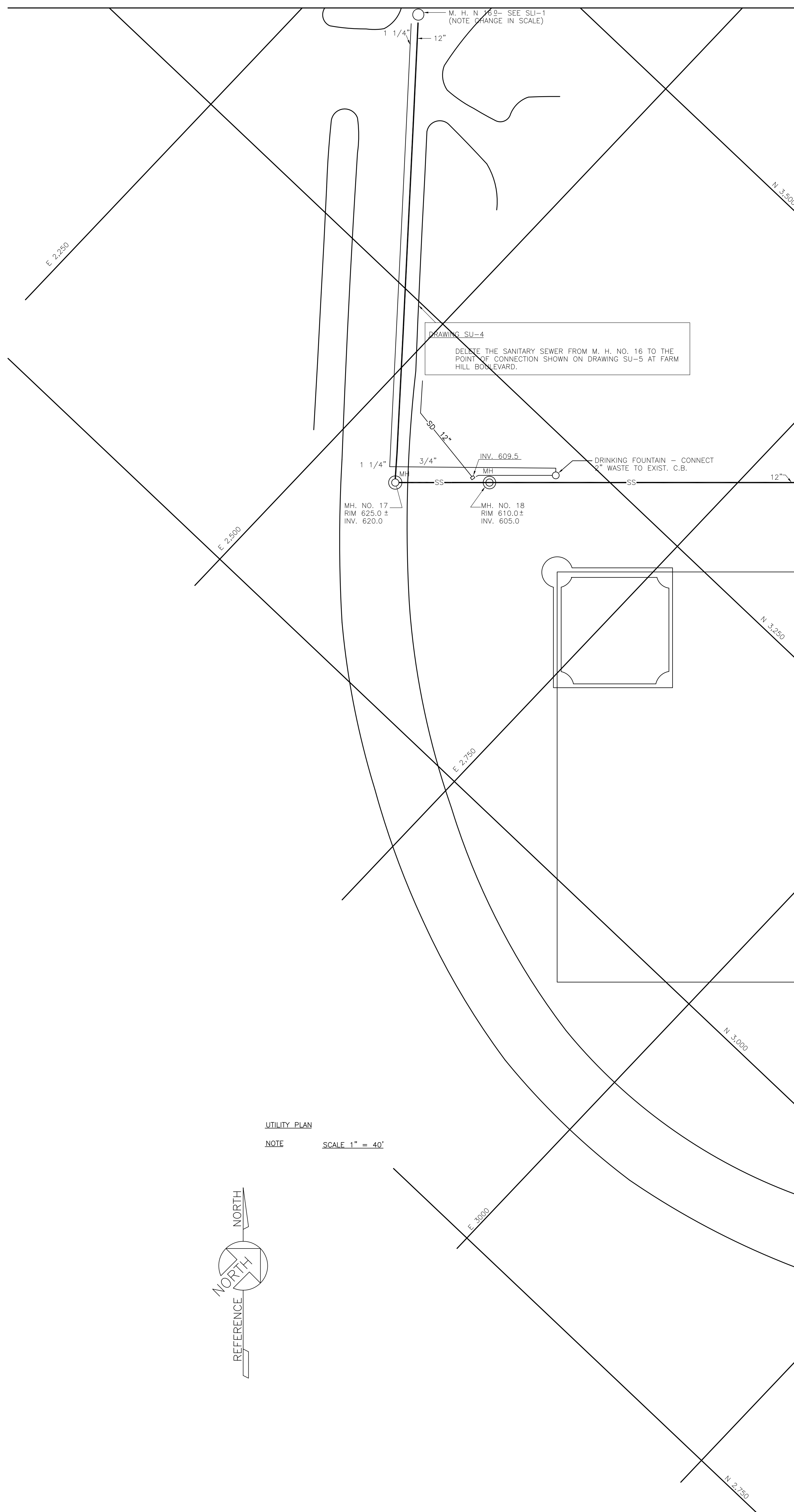
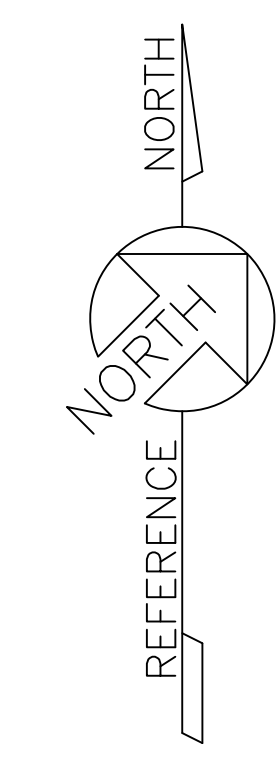
TYPE OF FITTING	SIZE OF PIPE	3"	4"	6"	8"	10"	12"
90° ELL	1 1/2"	2	1/2	5			
45° ELL	1 1/2"	1	1/2	2	1/2		
TEE	1 1/2"	1	1/2	2			
PLUG	1 1/2"	1	1/2	2			



SEWAGE LIFT STATION DETAIL
SCALE: 1/2" = 1'-0"

CAPACITY
PUMPS: EACH, 150 G.P.M. @ 40' T.D.H.
MOTORS: EACH, 3 H.P. (MIN) 1750 R.P.M.

UTILITY PLAN
NOTE SCALE 1" = 40'



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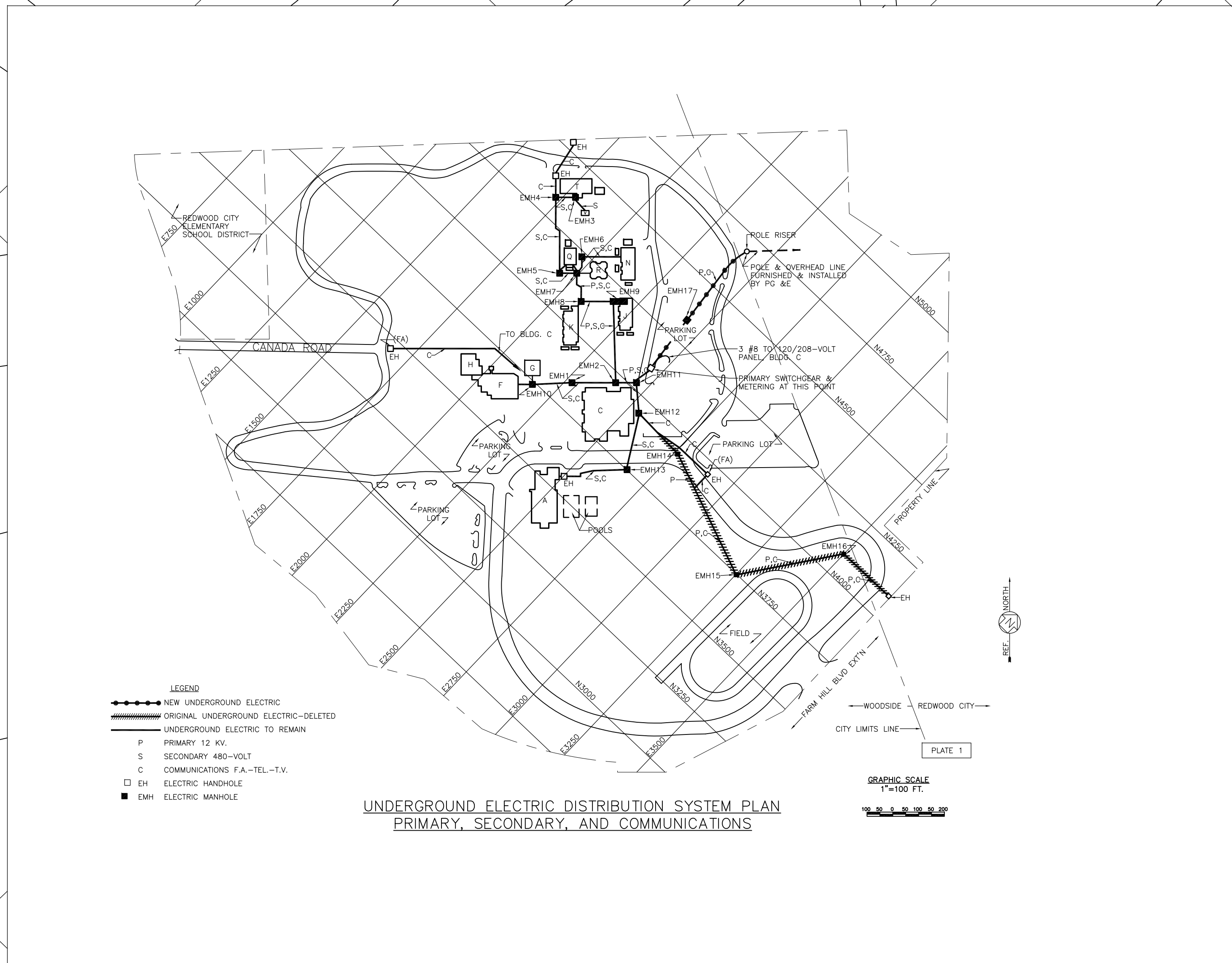
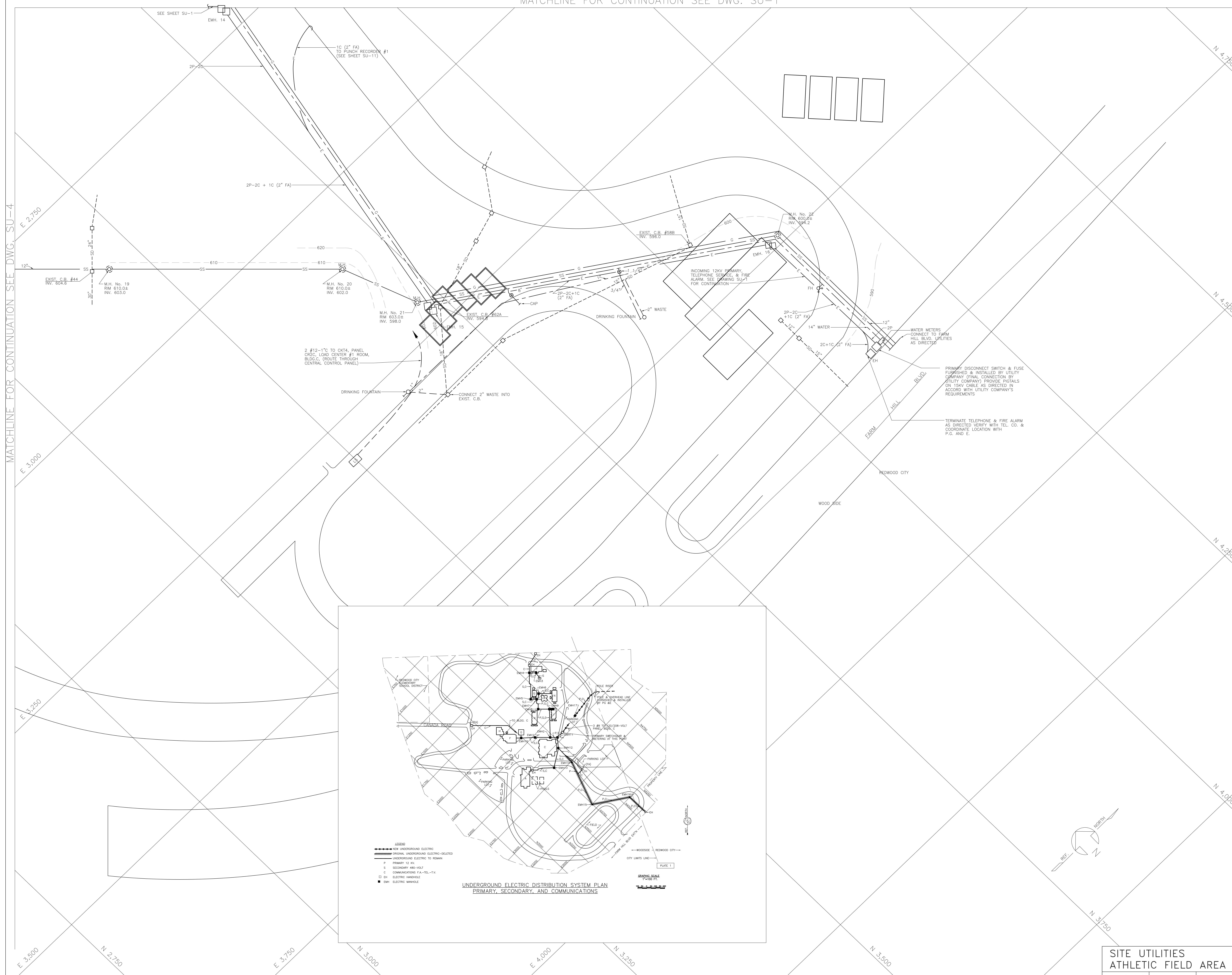
SITE UTILITIES
MISC. DETAILS

SCALE NOTED DATE 2-20-67 JOB NO: 5386

SU-4

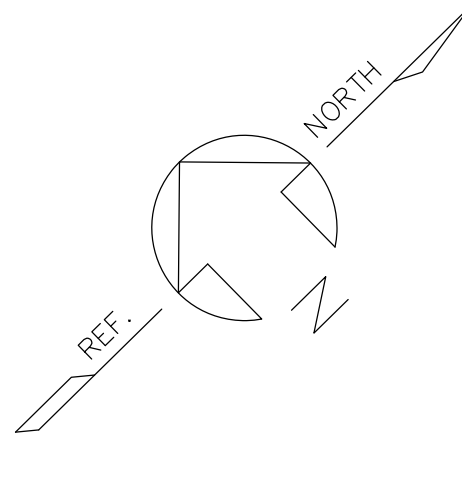
MATCHLINE FOR CONTINUATION SEE DWG. SU-1

MATCHLINE FOR CONTINUATION SEE DWG. SU-4



PRIMARY DISCONNECT SWITCH & FUSE SUPPLIED & INSTALLED BY UTILITY COMPANY (FINAL CONNECTION BY UTILITY COMPANY) PROVIDE DETAILS ON 15KV CABLE AS DIRECTED IN ACCORD WITH UTILITY COMPANY'S REQUIREMENTS

TERMINATE TELEPHONE & FIRE ALARM AS DIRECTED VERIFY WITH TEL. CO. & COORDINATE LOCATION WITH P.G. AND E.



SITE UTILITIES
ATHLETIC FIELD AREA
SCALE 1"=40'-0" DATE 02-20-67 JOB NO: 5386

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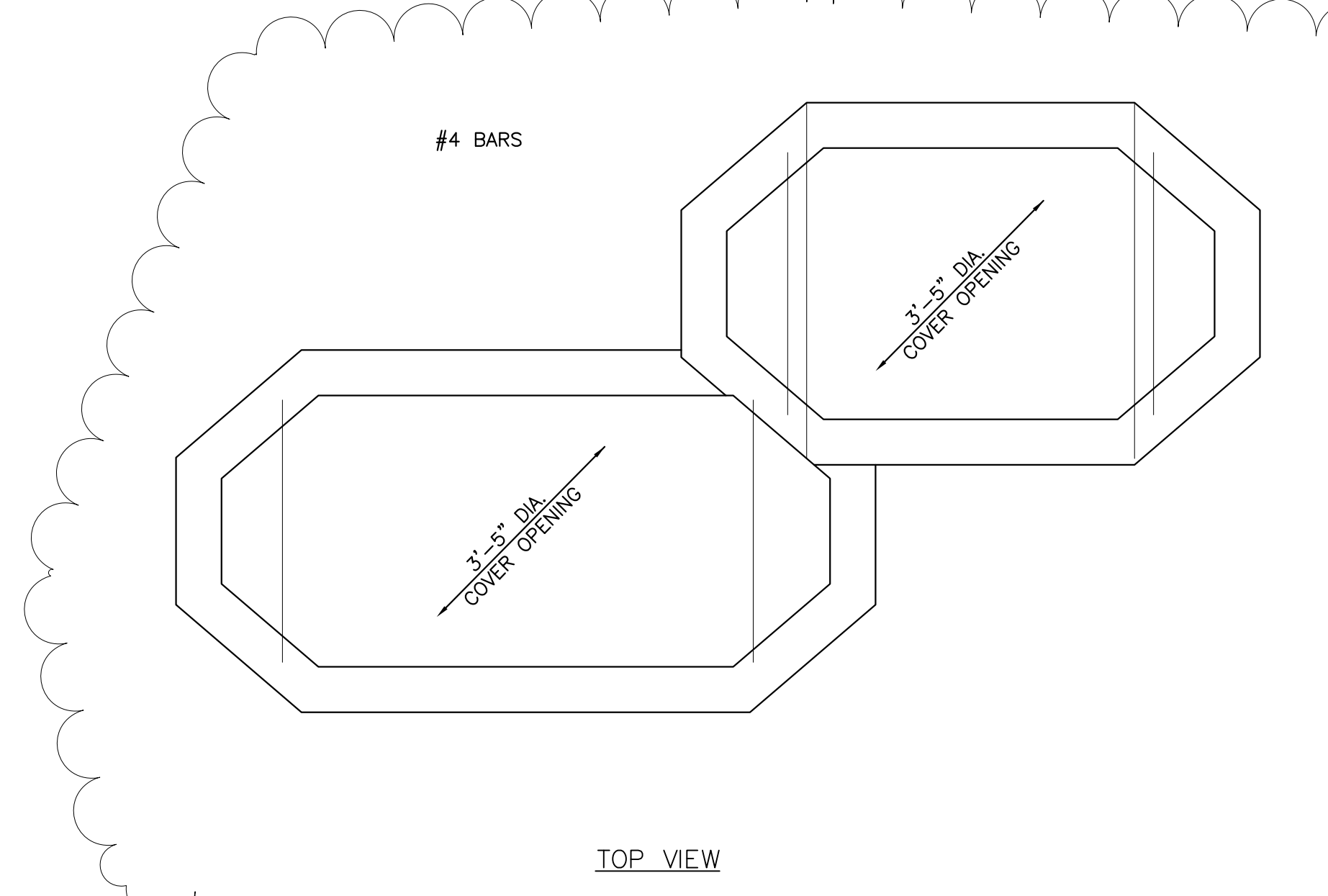
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CHAN/RADER AND ASSOCIATES
ARCHITECTS
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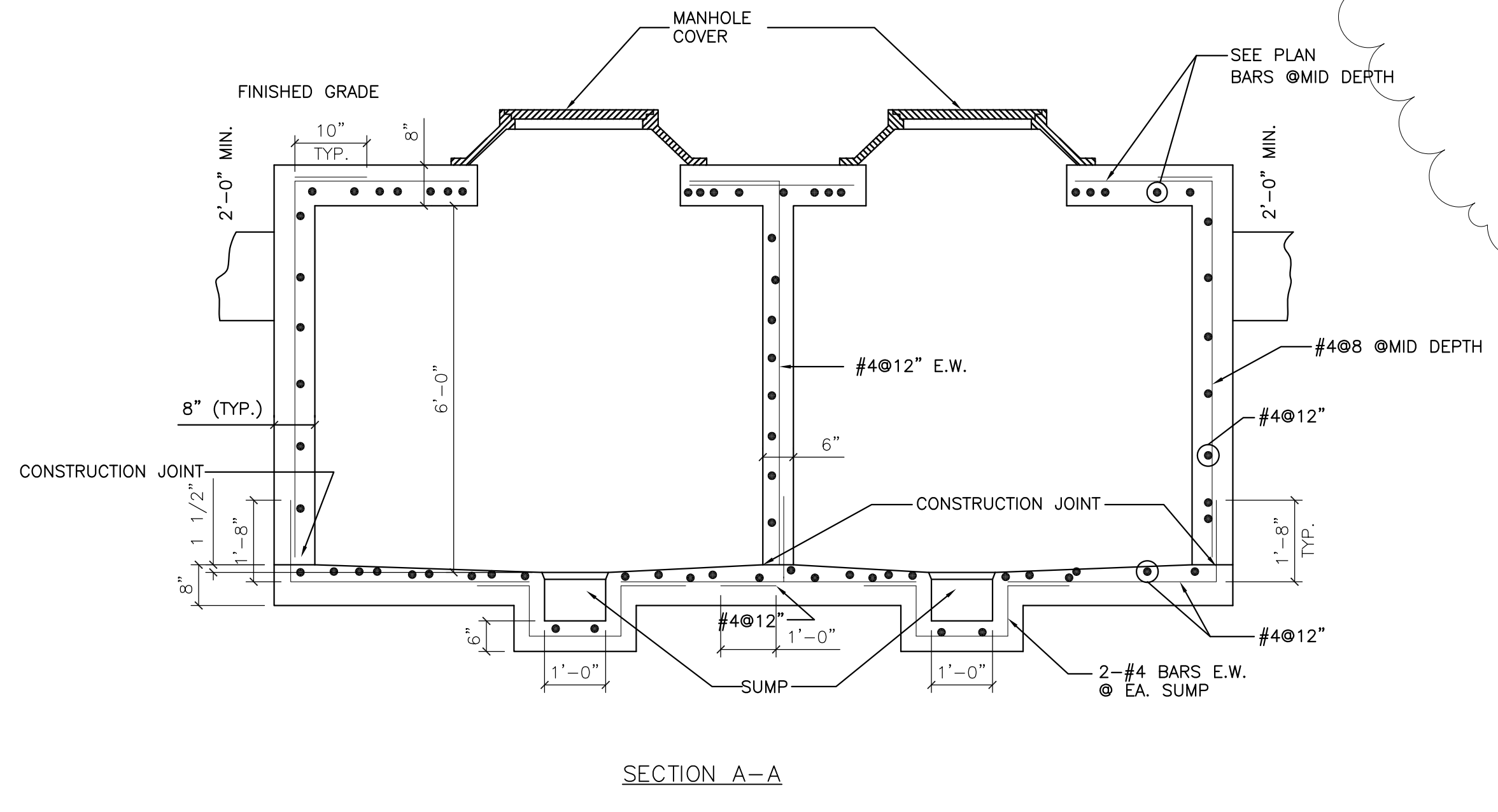
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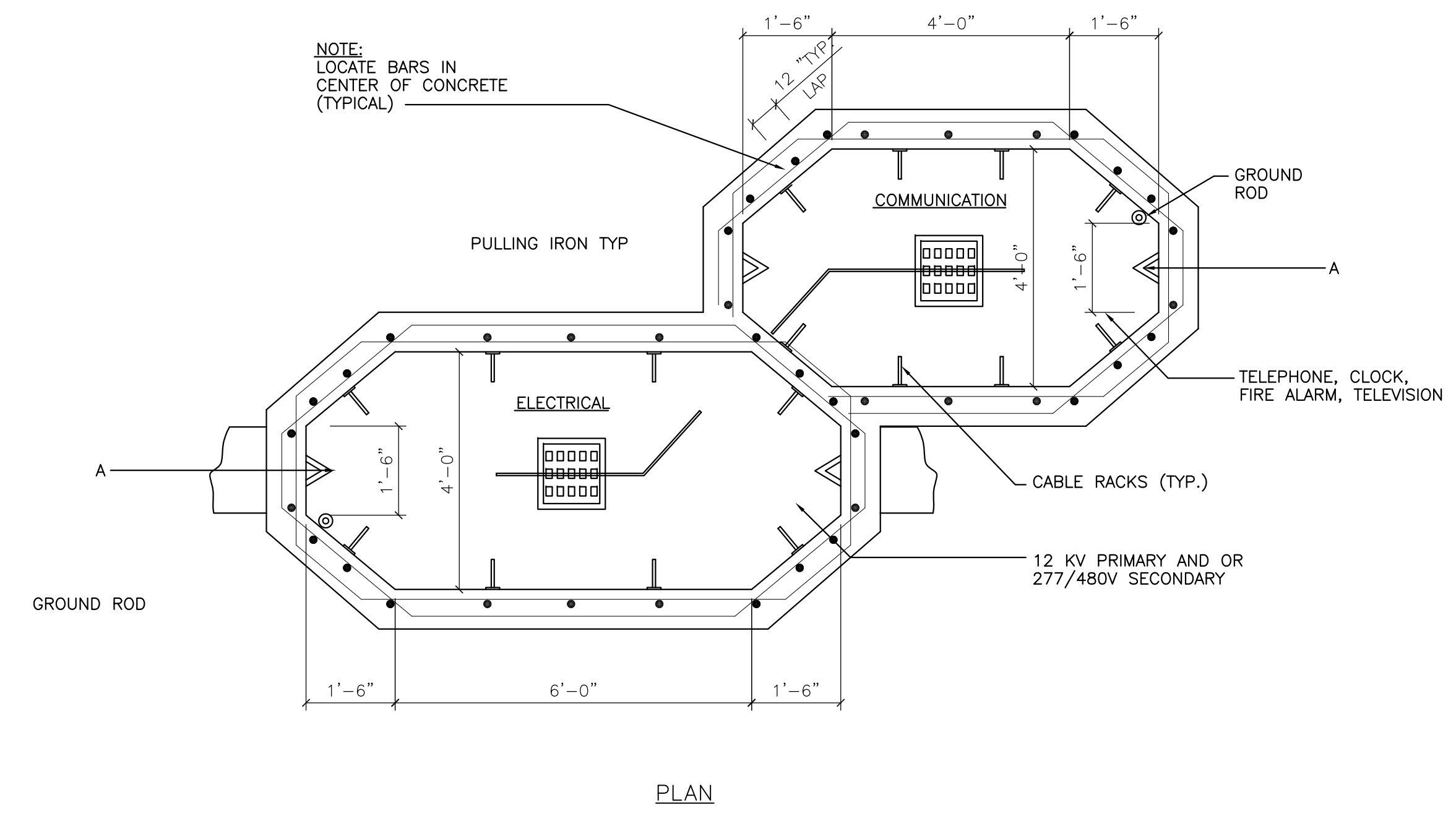
SU-5



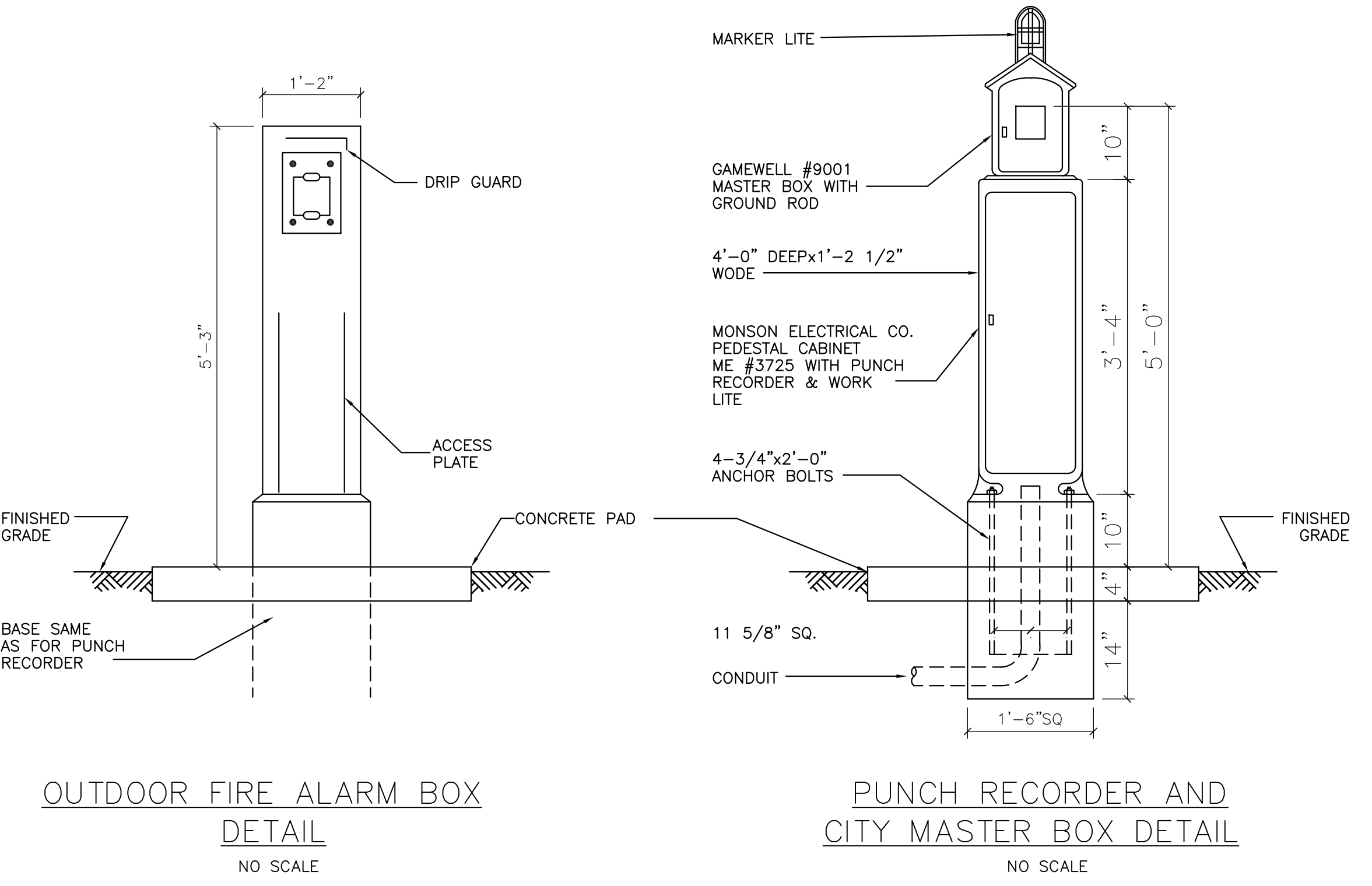
TYPICAL UNDER GROUND DUCT SECTION



SECTION A-A

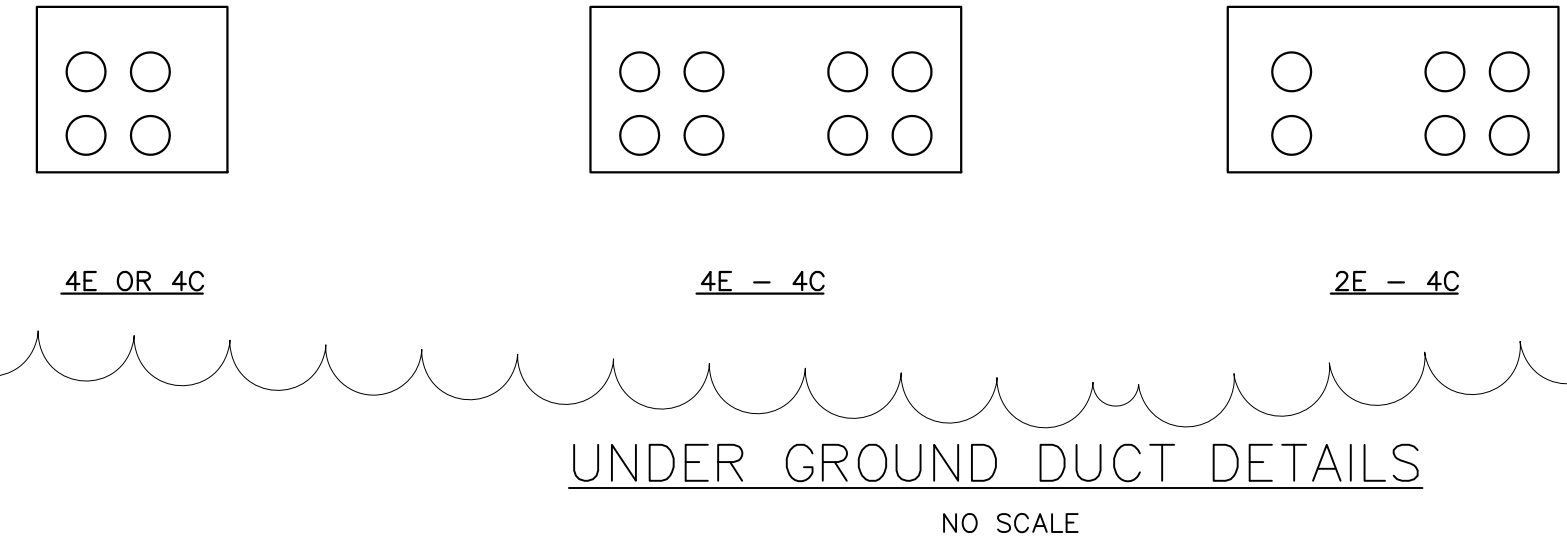


ELECTRICAL MANHOLE DETAIL
NO SCALE

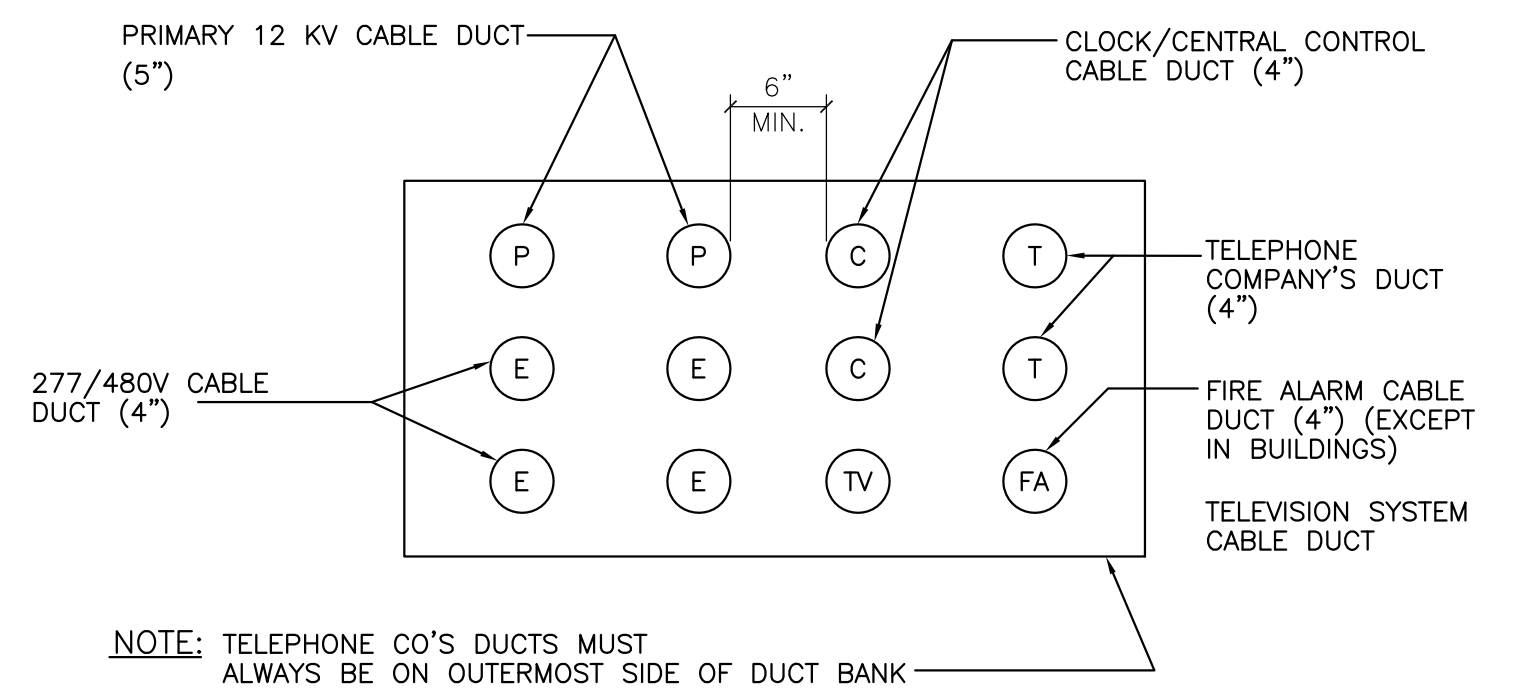


OUTDOOR FIRE ALARM BOX
DETAIL
NO SCALE

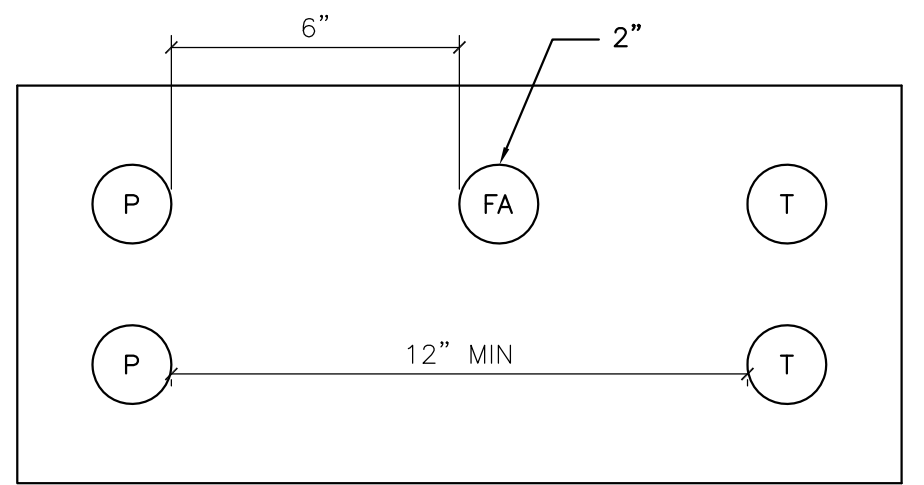
PUNCH RECORDER AND
CITY MASTER BOX DETAIL
NO SCALE



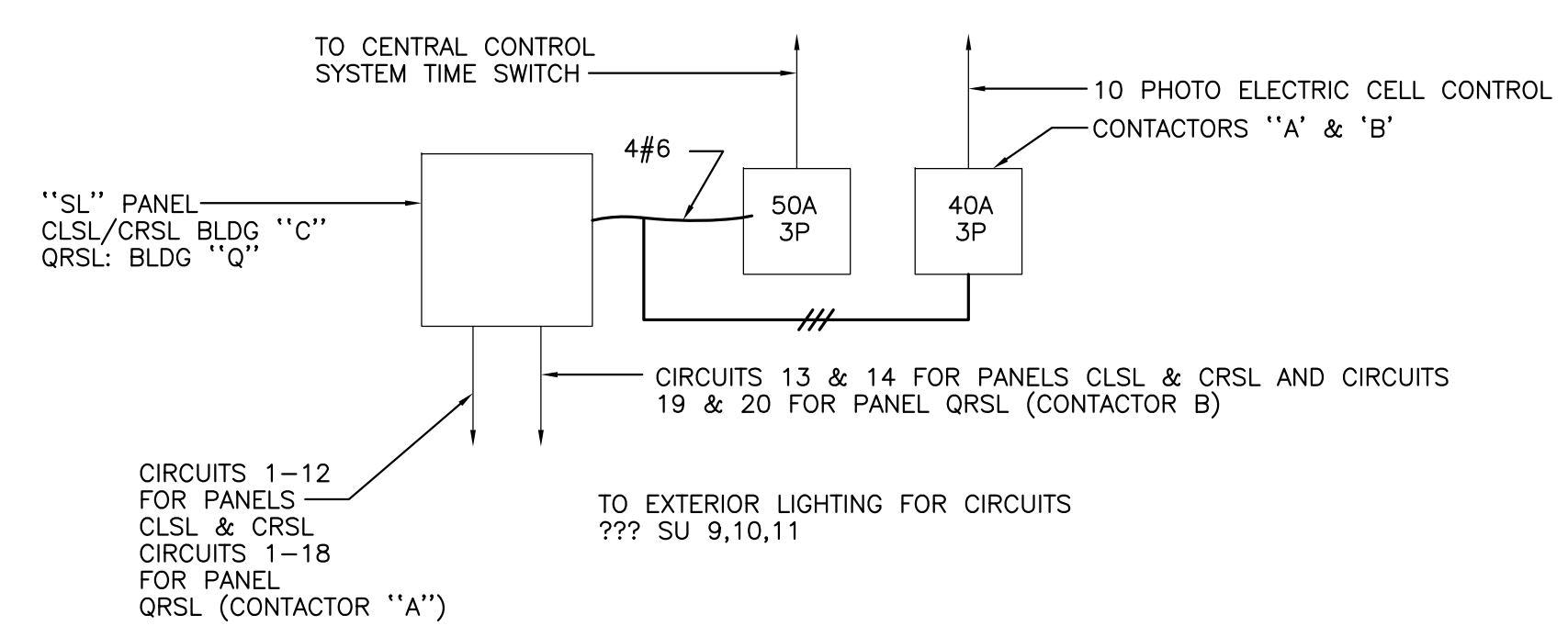
UNDER GROUND DUCT DETAILS
NO SCALE



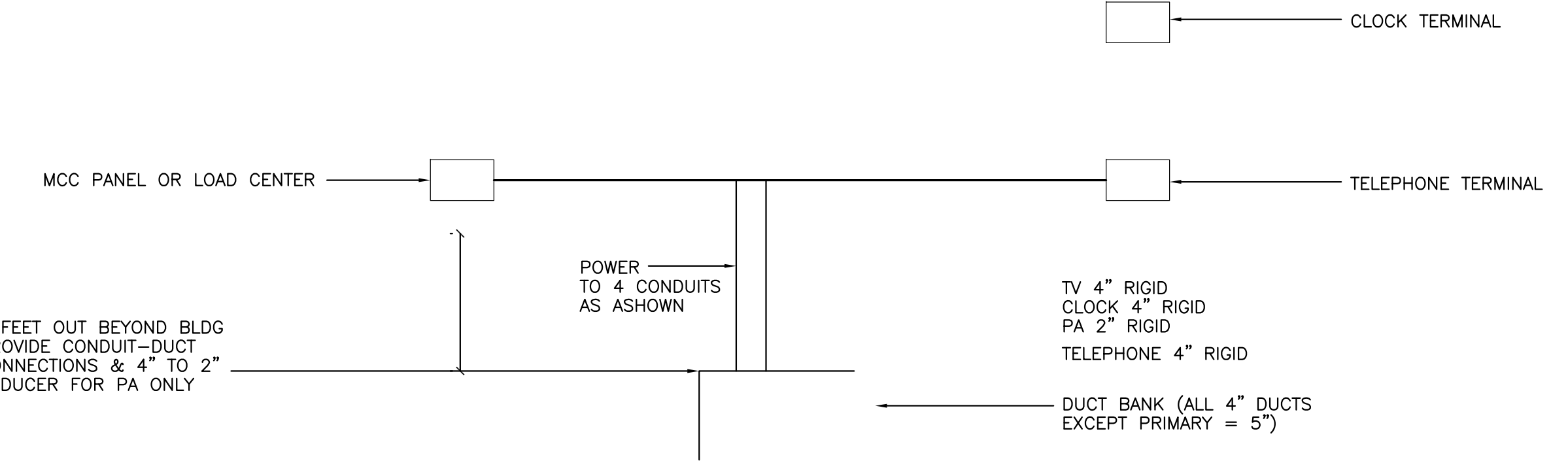
ARRANGEMENT OF DUCT SERVICES
FOR SERVICES TO & FROM BLDG "C" ARRANGE AS DIRECTED



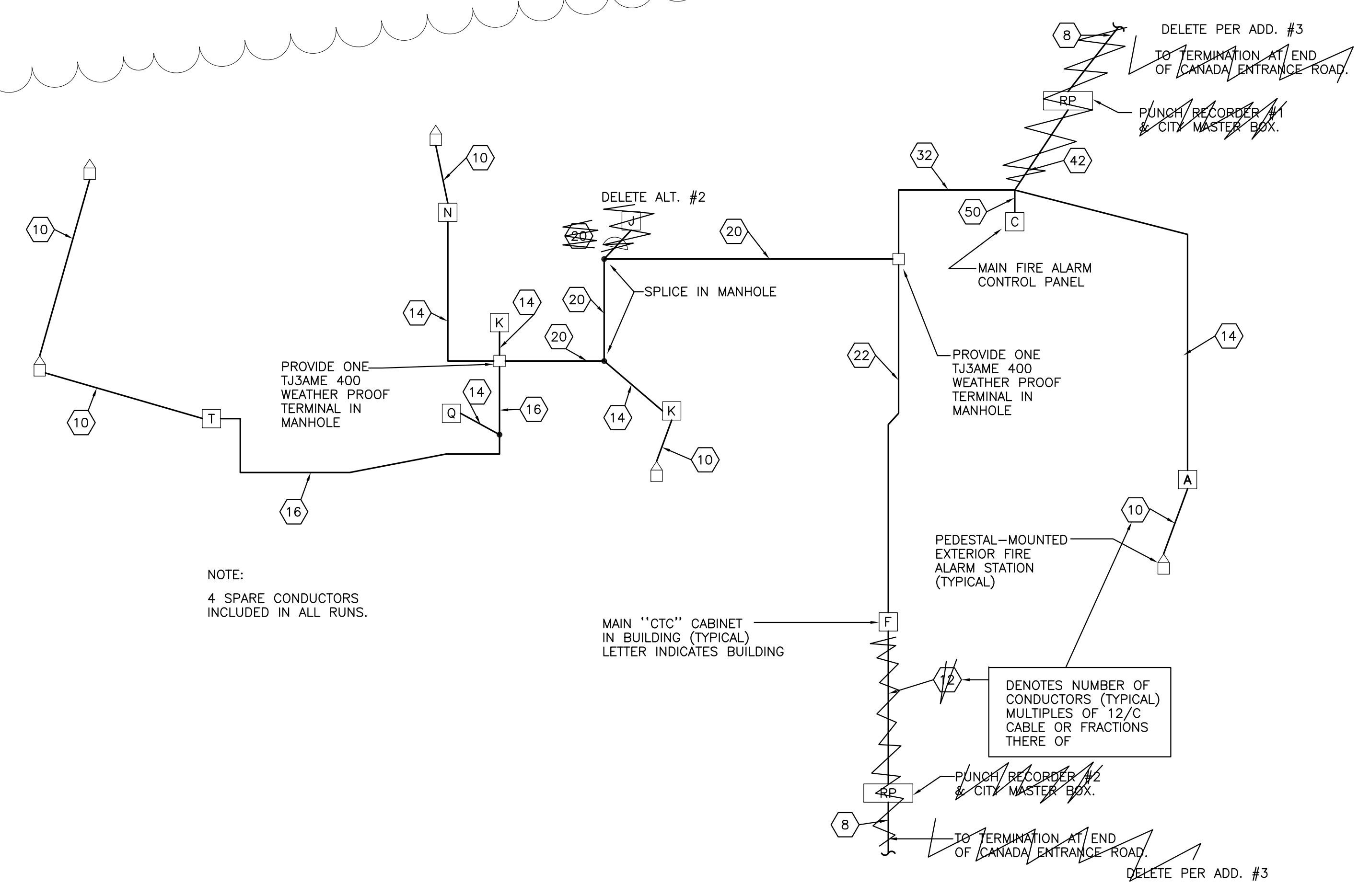
INCOMING SERVICE ONLY
SEE SHEET SU-1 & SU-5 LOCATION



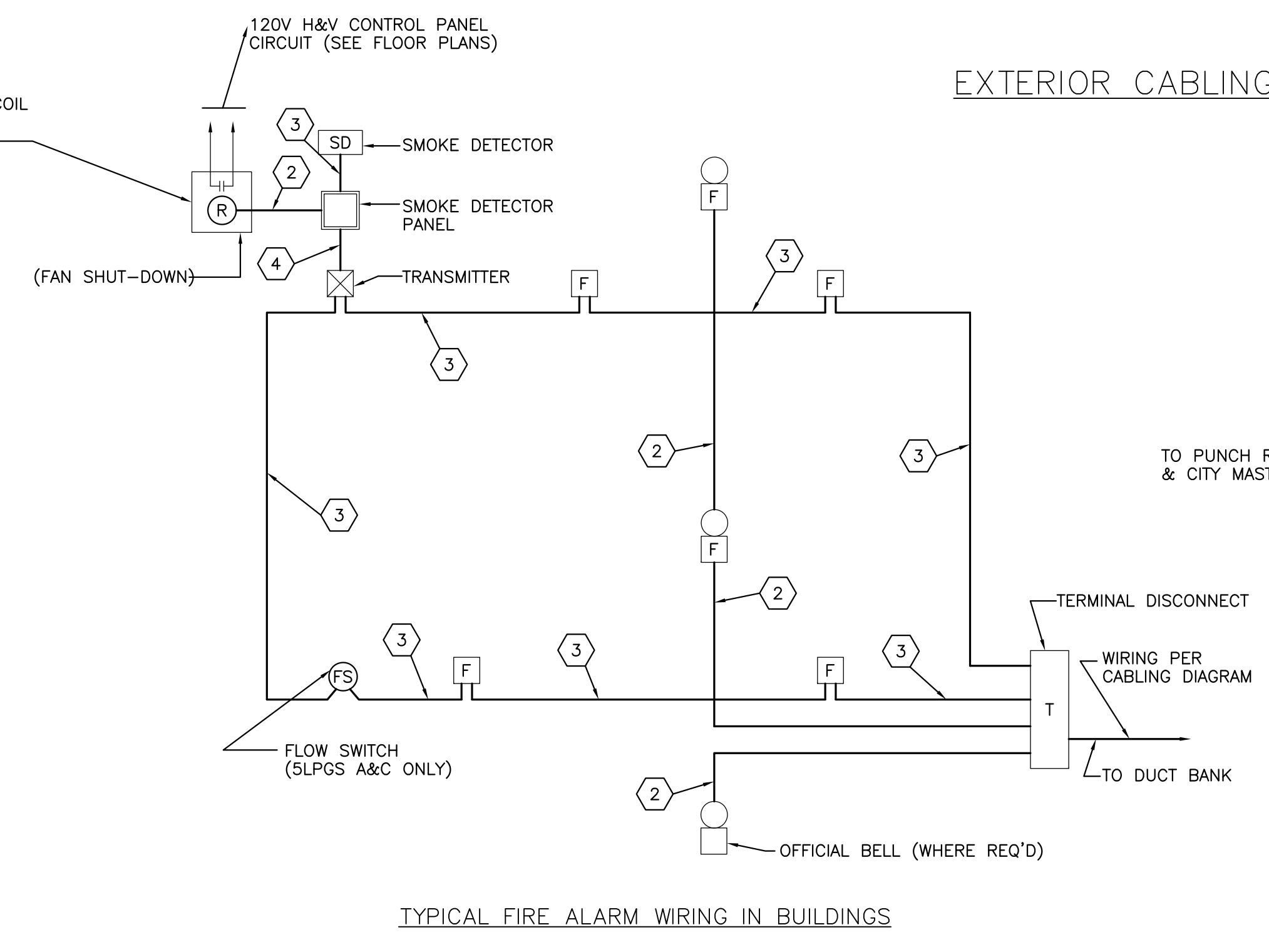
TYPICAL SITE LIGHTING CONTROL DIAGRAM
NO SCALE



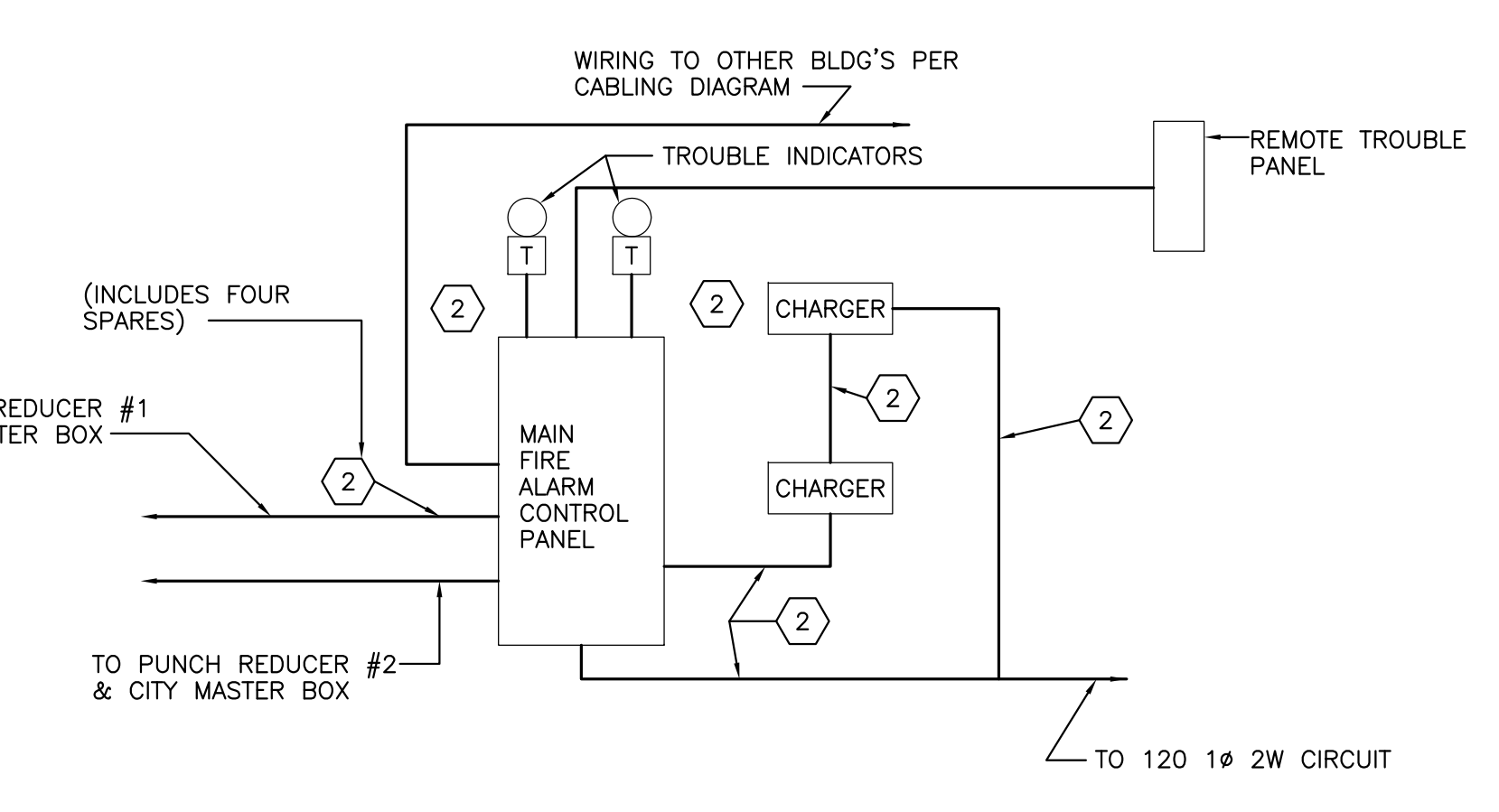
TYPICAL BUILDING SERVICE DISTRIBUTION
BLOCK DIAGRAM



EXTERIOR CABLING DIAGRAM



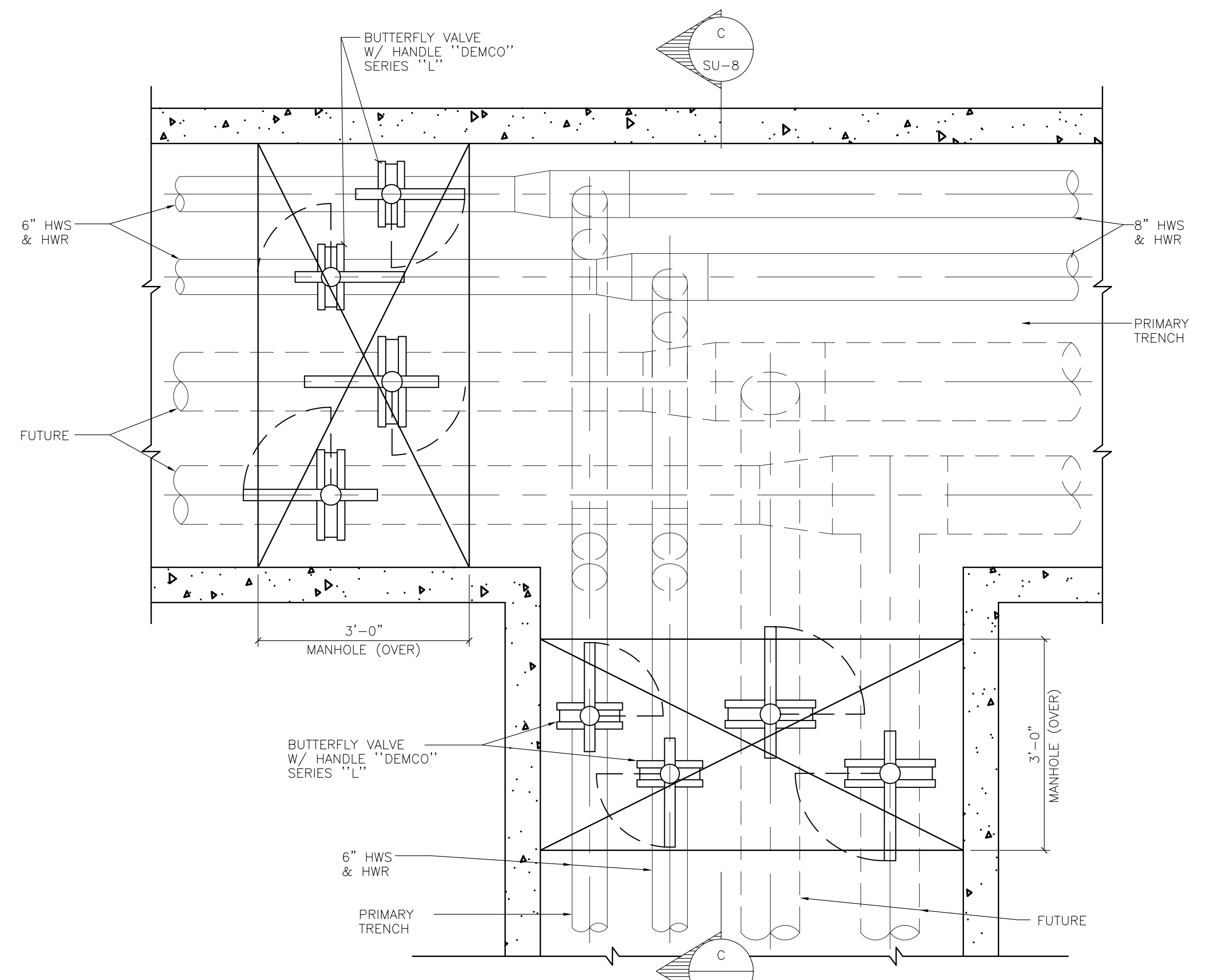
TYPICAL FIRE ALARM WIRING IN BUILDINGS
SCHEMATIC



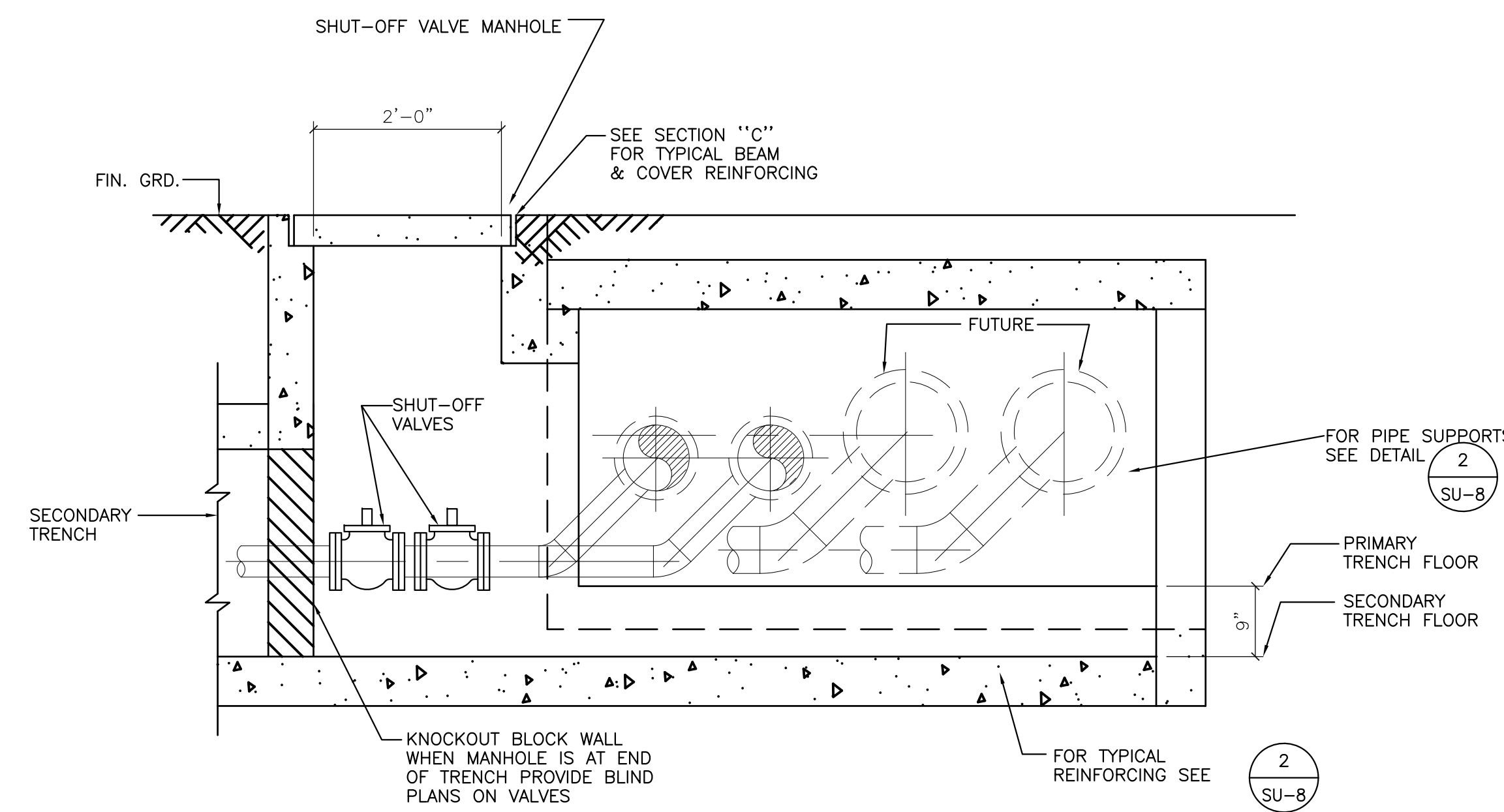
CONTROL EQUIPMENT IN BUILDING "C"

FIRE ALARM SYSTEM WIRING DIAGRAMS

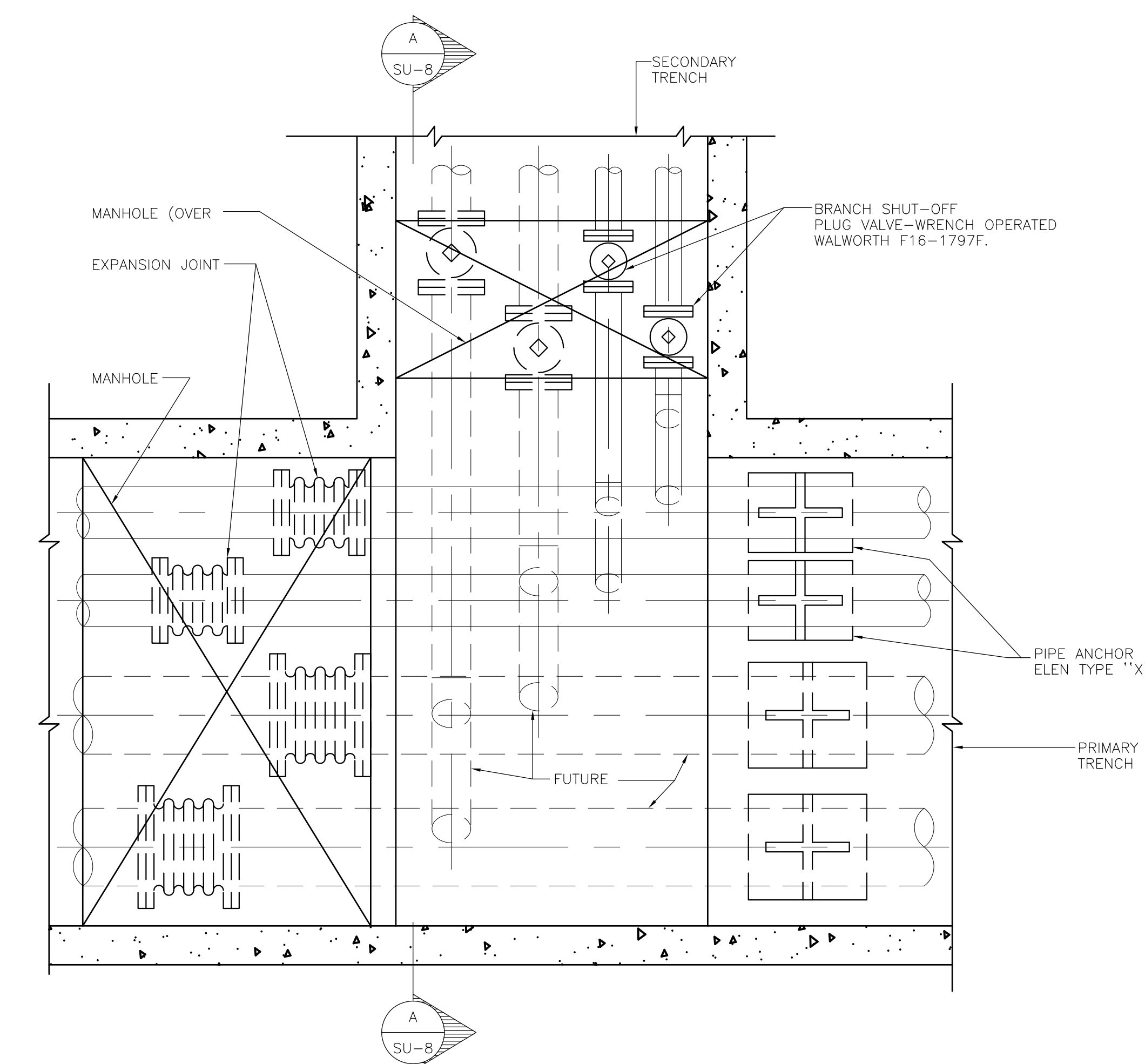
NOTE:
FOR CLOCK SYSTEM DISTRIBUTION WIRING
BETWEEN BUILDINGS SEE SHEET E-51



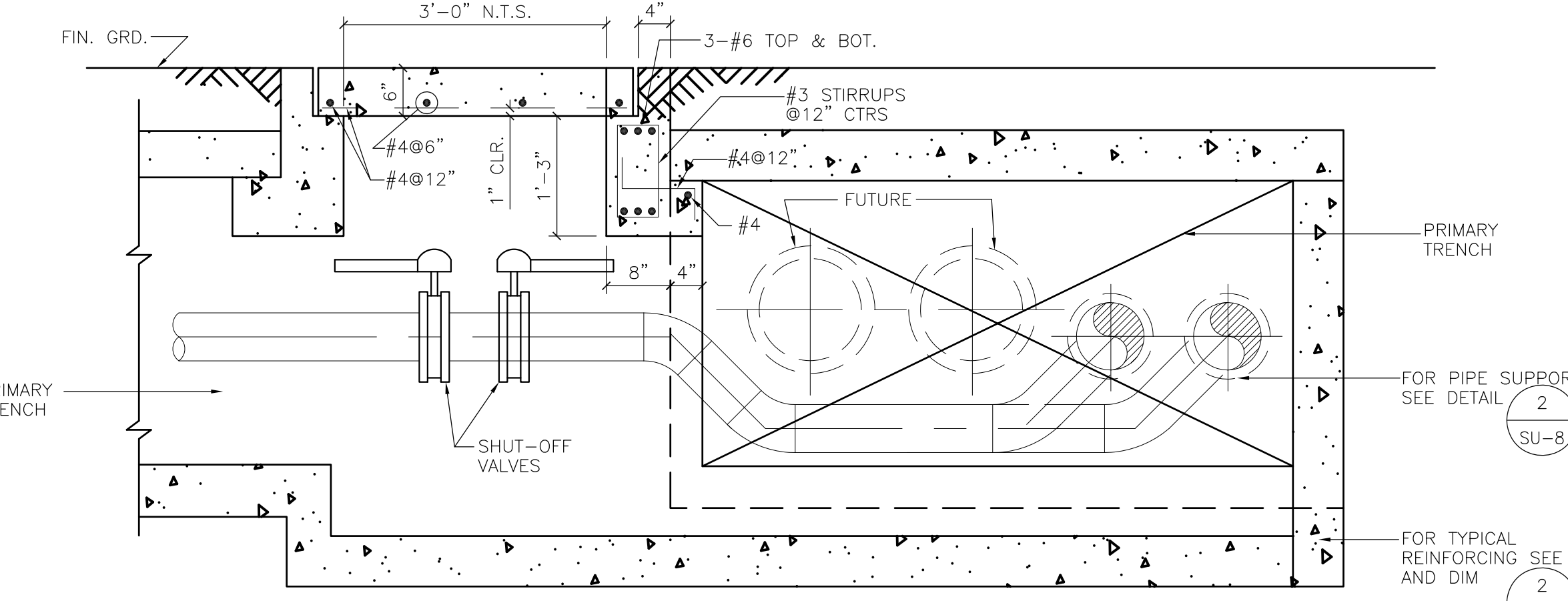
MANHOLES NO. 14 & 15 - PART PLAN
SCALE: 3/4" = 1'-0"



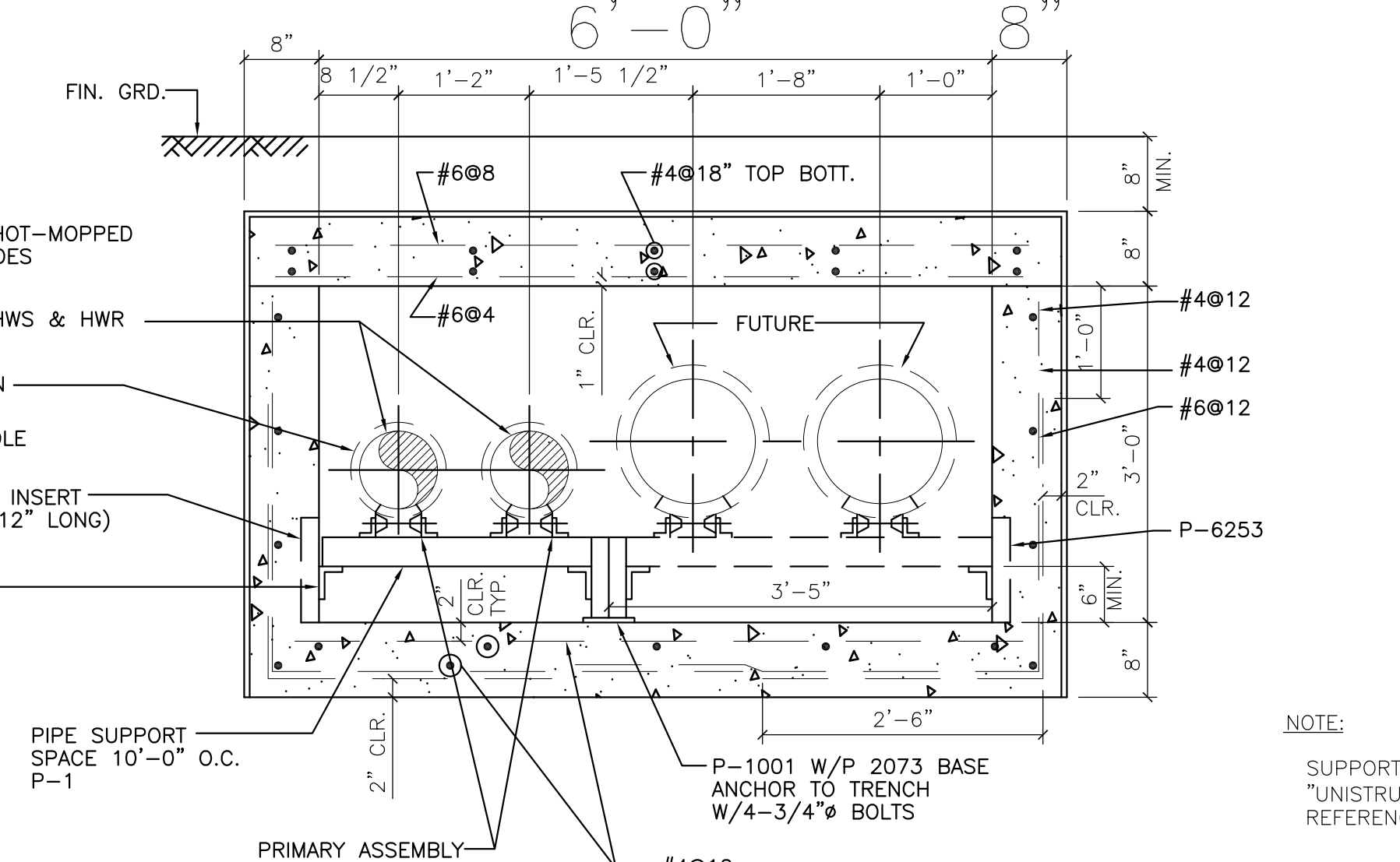
SECTION
SCALE: 3/4" = 1'-0"



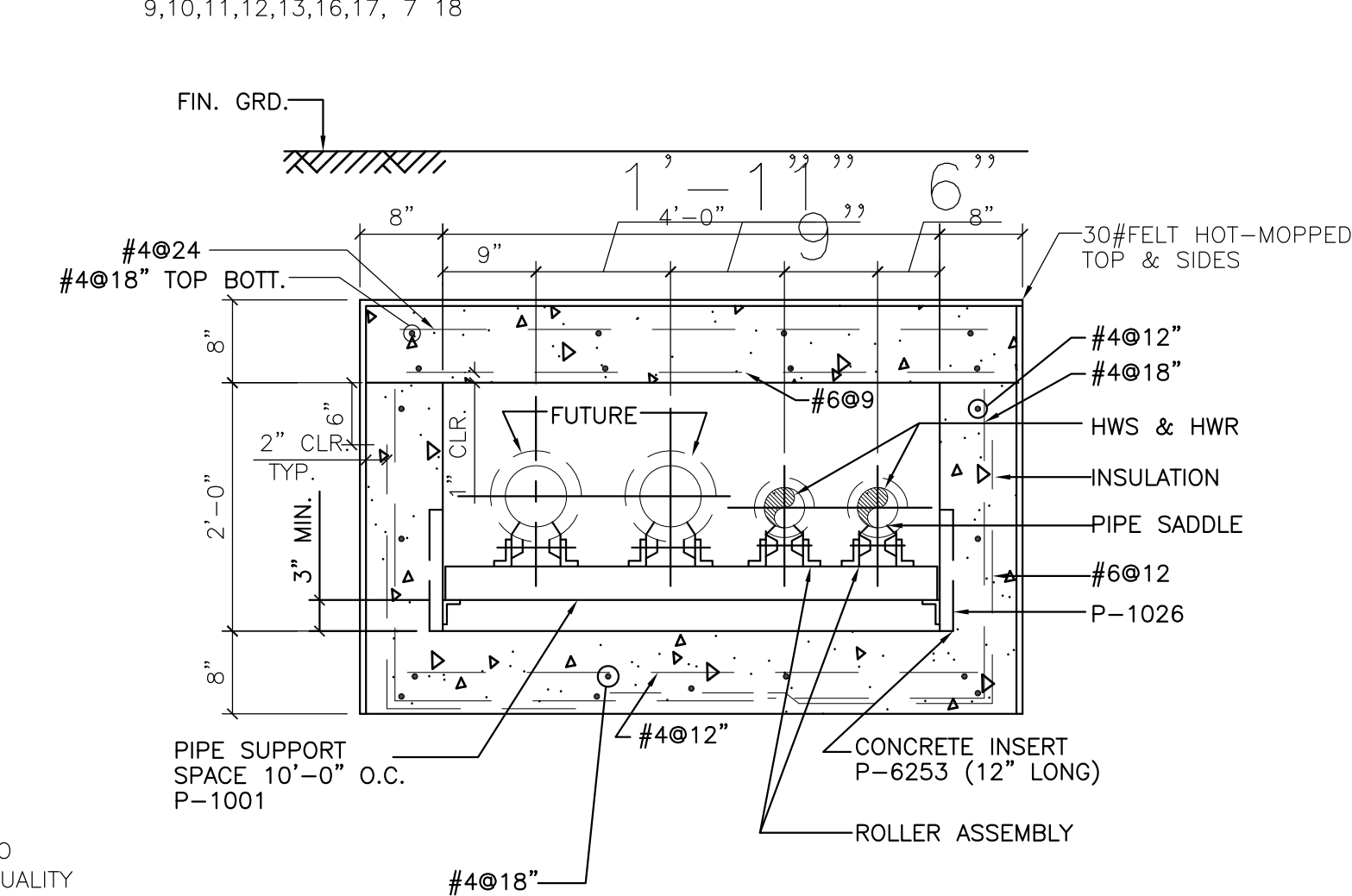
UTILITY TRENCH - PART PLAN
SCALE: 3/4" = 1'-0"



SECTION
SCALE: 3/4" = 1'-0"

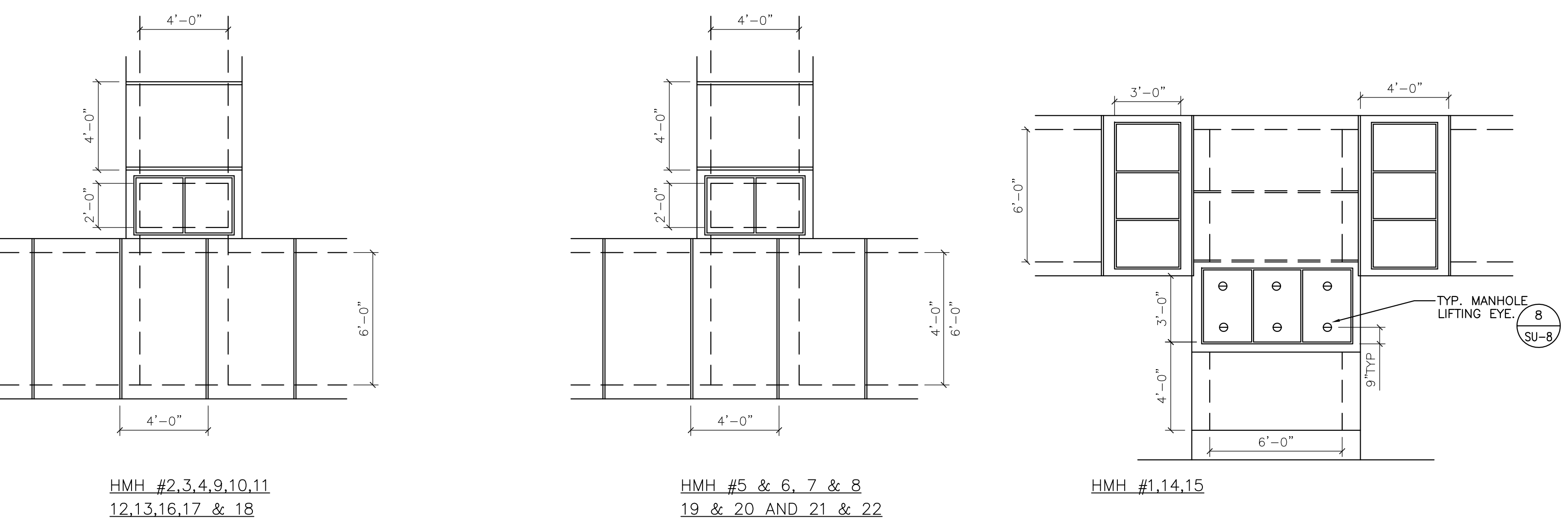


PRIMARY TRENCH DETAIL
SCALE: 3/4" = 1'-0"

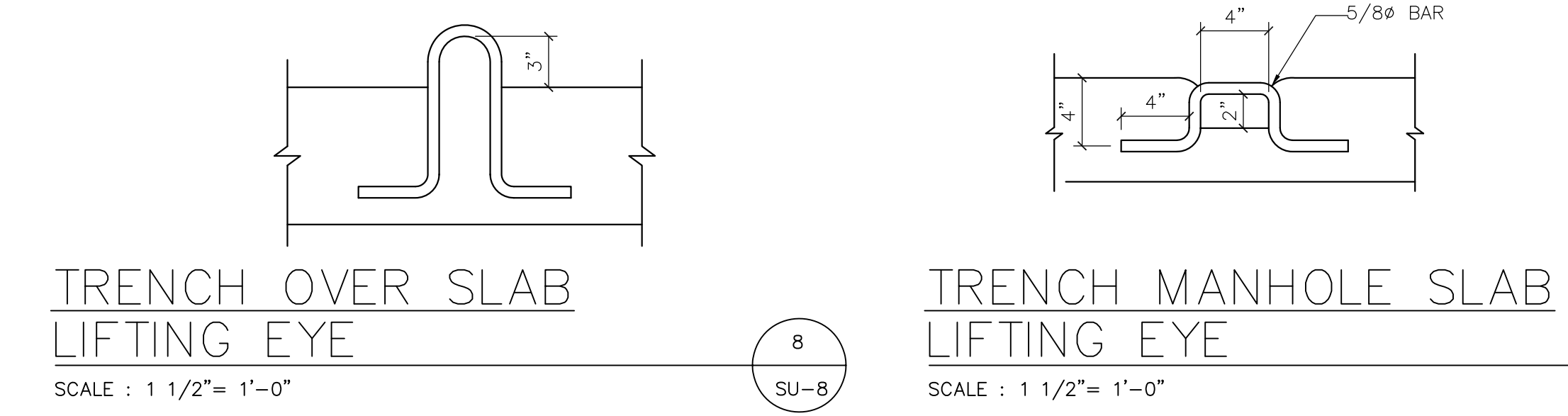


SECONDARY TRENCH DETAIL
SCALE: 3/4" = 1'-0"

SHEET SU-8 (SITE DEVELOPMENT);
ADDENDUM DRAWING NO. 1002 REVISES PRIMARY TRENCH DETAIL AND TRENCH COVER DETAILS AND REVISES PRIMARY TRENCH.

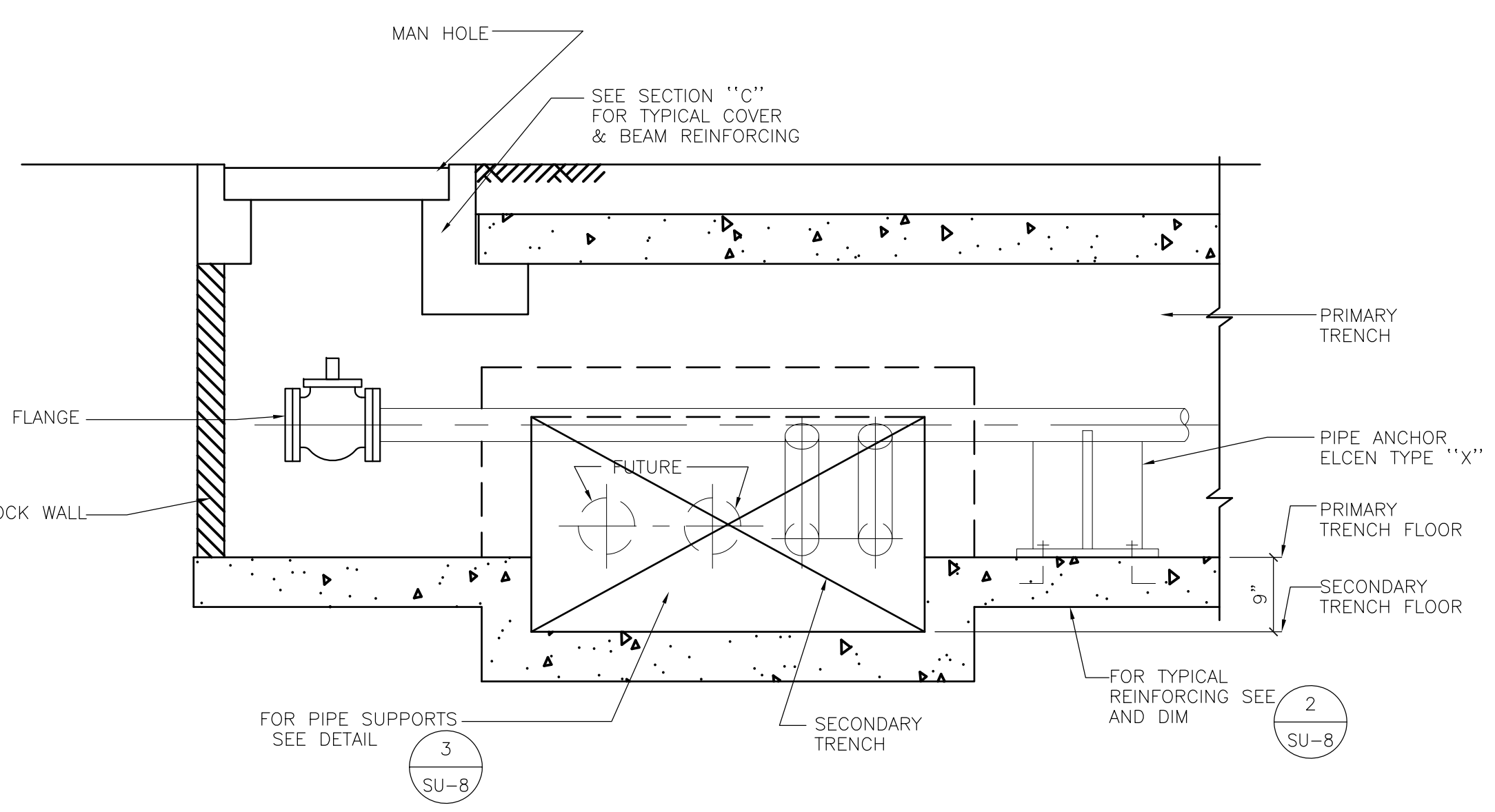


TRENCH COVER DETAIL - PART PLANS
SCALE: 1/4" = 1'-0"

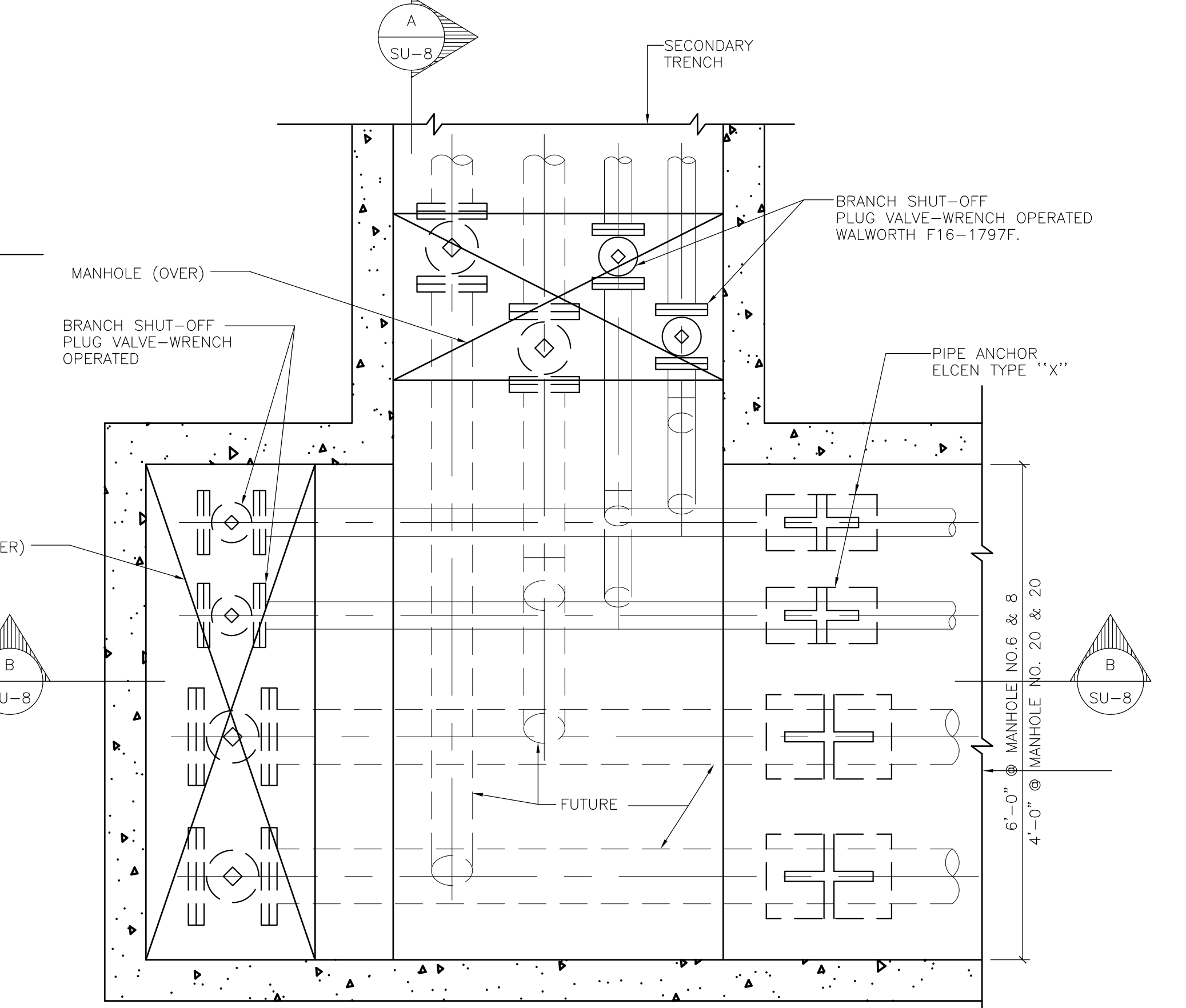


TRENCH OVER SLAB LIFTING EYE
SCALE: 1 1/2" = 1'-0"

TRENCH MANHOLE SLAB LIFTING EYE
SCALE: 1 1/2" = 1'-0"

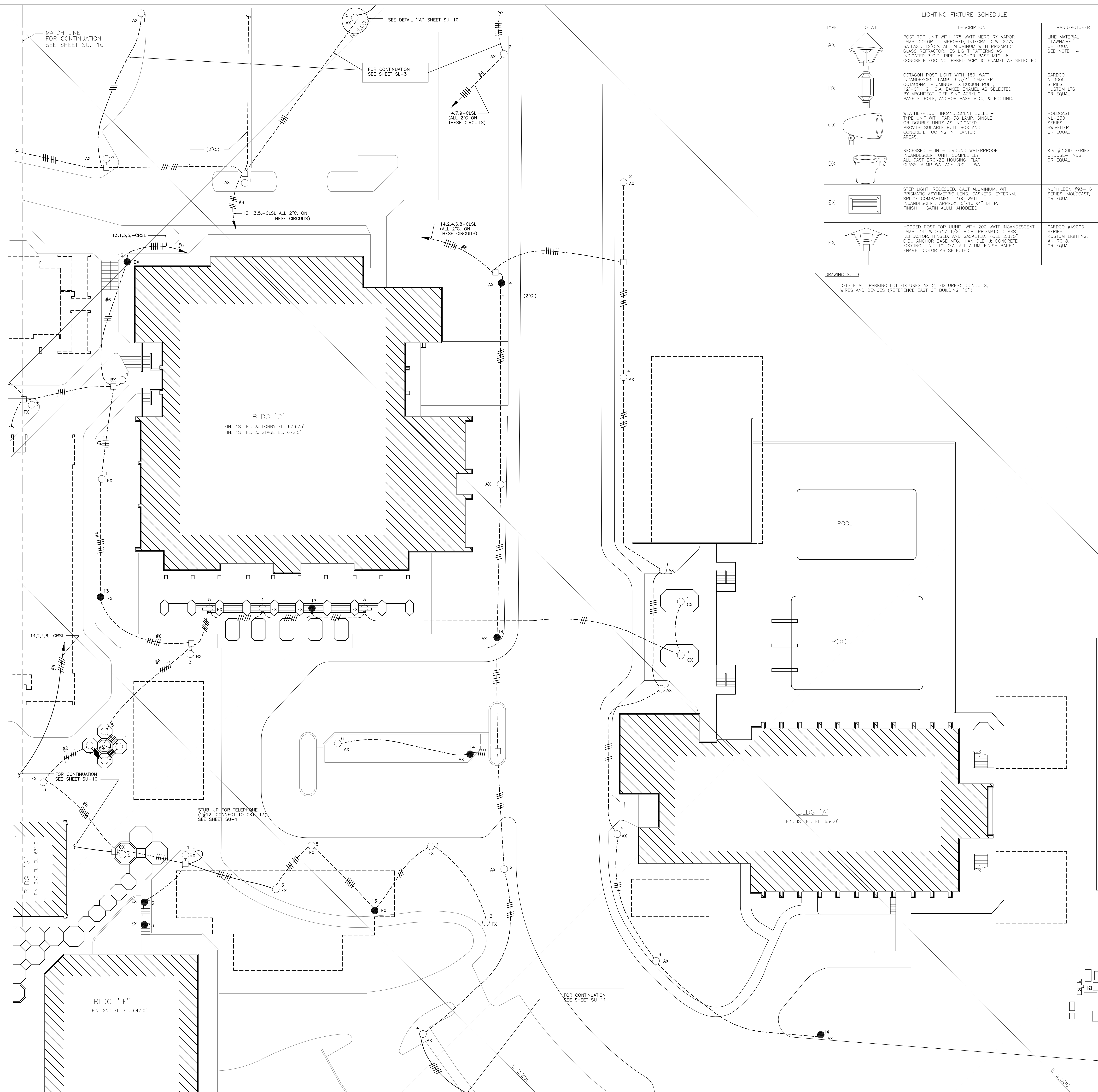


SECTION
SCALE: 3/4" = 1'-0"



UTILITY TRENCH - PART PLAN
SCALE: 3/4" = 1'-0"

- SEE SITE PLANS SU-1 AND SU-2 FOR PIPE SIZES & LOCATION OF ANCHORS EXPANSION JOINTS, MANHOLES AND SHUT-OFF VALVES
- PROVIDE 18" X 16" GAUGE GALV. STEEL SLEEVE AT ALL SUPPORTS & GUIDES. PROVIDE 1/4" MIN CLEARANCE BETWEEN GUIDE & SLEEVE.
- ALL CONCRETE, UNLESS OTHERWISE NOTED, SHALL BE REGULAR WEIGHT CONCRETE WITH A MINIMUM OF 3000 PSI AT 28 DAYS.
- ALL REINFORCING STEEL UNLESS OTHERWISE NOTED, SHALL BE INTERMEDIATE GRADE DEFORMED BARS CONFORMING TO ASTM A-15 AND A-305.
- SPLICES IN REINFORCEMENT UNLESS OTHERWISE NOTED, SHALL HAVE A MINIMUM LAP OR 32 BAR DIAMETERS

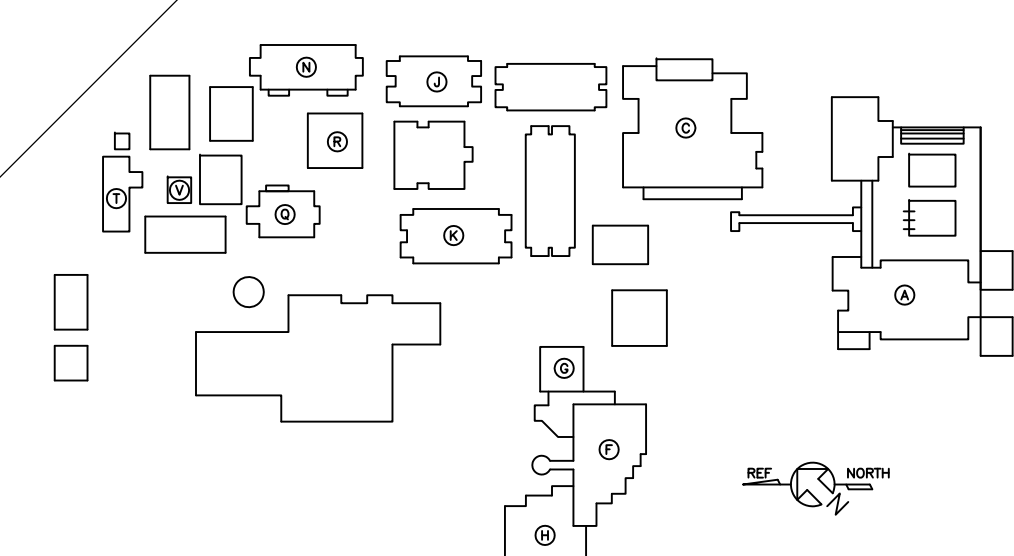
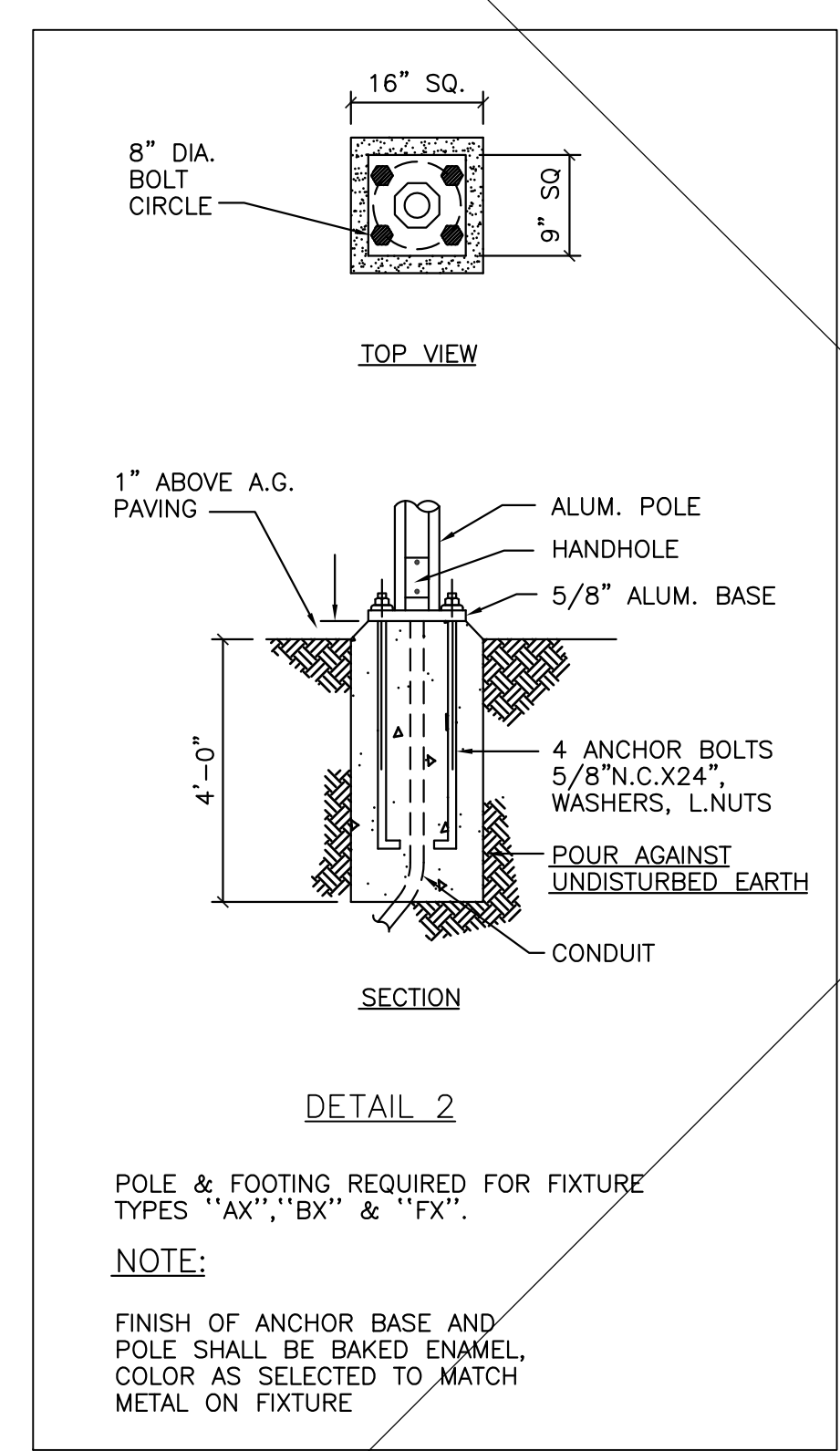


LIGHTING FIXTURE SCHEDULE			
TYPE	DETAIL	DESCRIPTION	MANUFACTURER
AX		POST TOP UNIT WITH 175 WATT MERCURY VAPOR LAMP. COLOR - IMPROVED, INTEGRAL C.W. 277V, BALLAST, 120A. ALL ALUMINUM WITH PRISMATIC GLASS REFRACTOR. IES LIGHT PATTERNS AS INDICATED. 3" O.D. PIPE, ANCHOR BASE MFG. & CONCRETE FOOTING, BAKED ACRYLIC ENAMEL AS SELECTED.	LINE MATERIAL "LAWNARE" OR EQUAL. SEE NOTE -4
BX		OCTAGON POST LIGHT WITH 189-WATT INCANDESCENT LAMP. 3 3/4" DIAMETER OCTAGONAL ALUMINUM EXTRUSION POLE. 12"-0" HIGH O.D. BAKED ENAMEL AS SELECTED BY ARCHITECT. DIFFUSING ACRYLIC PANELS. POLE, ANCHOR BASE MFG., & FOOTING.	GARDCO A-9005 SERIES, KUSTOM LITG. OR EQUAL
CX		WEATHERPROOF INCANDESCENT BULLET-TYPE UNIT WITH PAR-38 LAMP. SINGLE OR DOUBLE UNITS AS INDICATED. PROVIDE SUITABLE PULL BOX AND CONCRETE FOOTING IN PLANTER AREAS.	MOLDCAST ML-230 SERIES SWIVELER OR EQUAL
DX		RECESSED - IN - GROUND WATERPROOF INCANDESCENT UNIT, COMPLETELY ALL CAST BRONZE HOUSING. FLAT GLASS. LAMP WATTAGE 200 - WATT.	KIM #3000 SERIES CROUSE-HINDS. OR EQUAL
EX		STEP LIGHT, RECESSED, CAST ALUMINUM, WITH PRISMATIC ASYMMETRIC LENS, GASKETS, EXTERNAL SPICE COMPARTMENT. 100 WATT INCANDESCENT. APPROX. 5"x10"x4" DEEP. FINISH - SATIN ALUM. ANODIZED.	M&PHILBEN #93-16 SERIES, MOLDCAST, OR EQUAL
FX		HOODED POST TOP UNIT, WITH 200 WATT INCANDESCENT LAMP. 14" WIDE x 17 1/2" HIGH. PRISMATIC GLASS REFRACTOR, HINGED, AND GASKETED. POLE 2.875" O.D., ANCHOR BASE MFG., HANDHOLE, & CONCRETE FOOTING, UNIT 10" O.D. ALL ALUM-FINISH BAKED ENAMEL COLOR AS SELECTED.	GARDCO #A9000 SERIES, KUSTOM LIGHTING, #K-7018, OR EQUAL

ELECTRICAL LEGEND	
SHEETS SL-1 TO SL-4	
	LIGHTING FIXTURE - LETTERS ADJACENT INDICATE TYPE (SEE SCHEDULE) FIGURE INDICATES CIRCUIT NUMBER
	SYMBOL INDICATES FIXTURE CONNECTED TO "ALL NIGHT" CIRCUIT.
	UNDERGROUND LIGHTING CIRCUIT IN 1 1/2" NON-METALLIC CONDUIT UNLESS NOTED. CROSS MARKS INDICATE NUMBER OF WIRES, FIGURE INDICATES "AWG" GAUGE. (#8 MIN. IF NOT NOTED)
	HANDHOLE OR PULLBOX - STATE HIGHWAY #5 TYPE, SIZED AS REQUIRED
	HOMERUN TO POWER SOURCE IN PANEL IN BUILDING AS INDICATED.

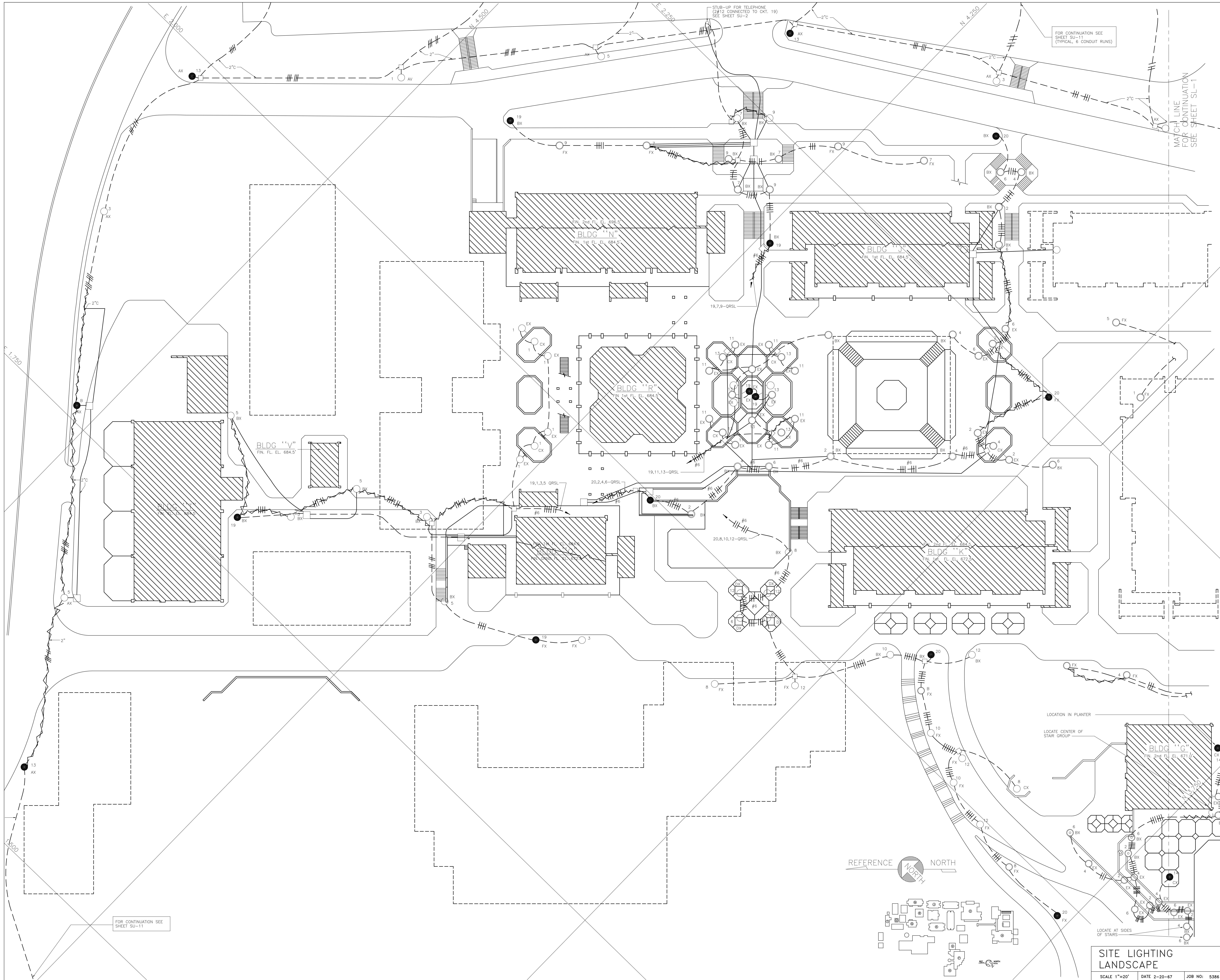
DRAWING SU-9
 DELETE ALL PARKING LOT FIXTURES AX (9 FIXTURES), CONDUITS, WIRES AND DEVICES (REFERENCE EAST OF BUILDING "C")

- NOTES:
1. THE EXACT LOCATION OF ALL FIXTURES SHALL BE AS DIRECTED.
 2. PROVIDE GROUND WIRE TO ALL FIXTURES.
 3. LOCATIONS OF HANDHOLES REQUIRED FOR JUNCTURE OF LANDSCAPE CIRCUITS WHERE SHOWN IN OR NEAR PLANTERS ETC., SHALL BE SUBJECT TO ARCHITECTS APPROVAL (ADJUST IN THE FIELD AS DIRECTED.)
 4. ALL TYPE "AX" FIXTURES ADJACENT TO OR PARALLEL WITH ROADWAYS SHALL HAVE IES TYPE III LIGHT DISTRIBUTION, & ALL OTHERS (SUCH AS IN PARKING LOTS & LANDSCAPE) SHALL HAVE TYPE - V.



SITE LIGHTING LANDSCAPE
 SCALE 1"=20' DATE 2-20-67 JOB NO: 5386

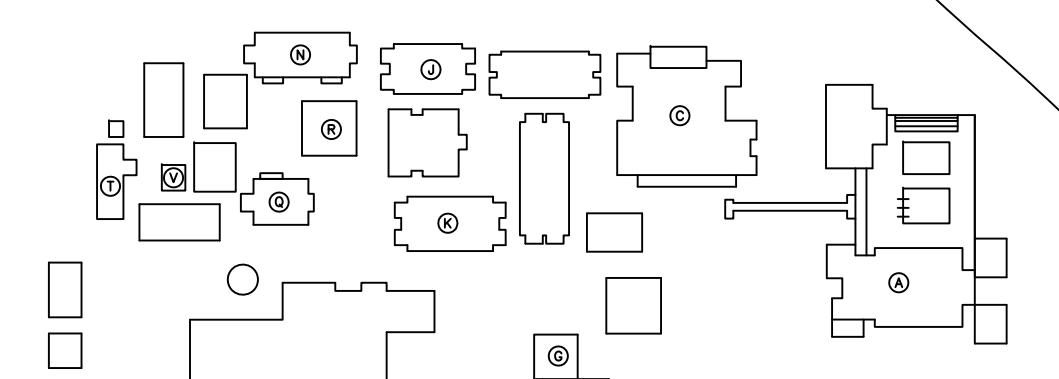
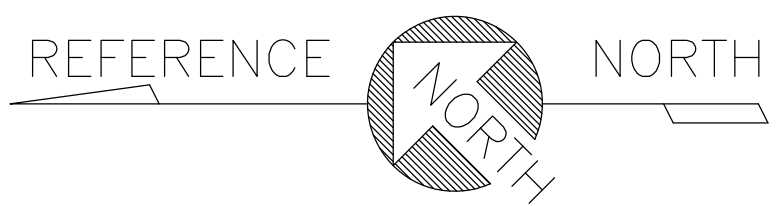
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SU-9



FOR CONTINUATION SEE SHEET SU-11

FOR CONTINUATION SEE SHEET SU-11 (TYPICAL, 6' CONDUIT RUNS)

MATCH LINE FOR CONTINUATION SEE SHEET SL-1



SITE LIGHTING LANDSCAPE

SCALE 1"=20' DATE 2-20-67 JOB NO: 5386

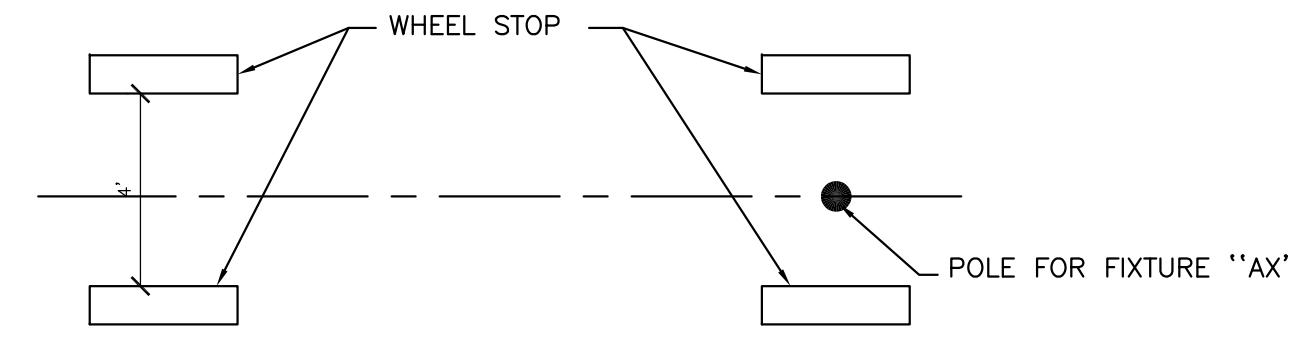
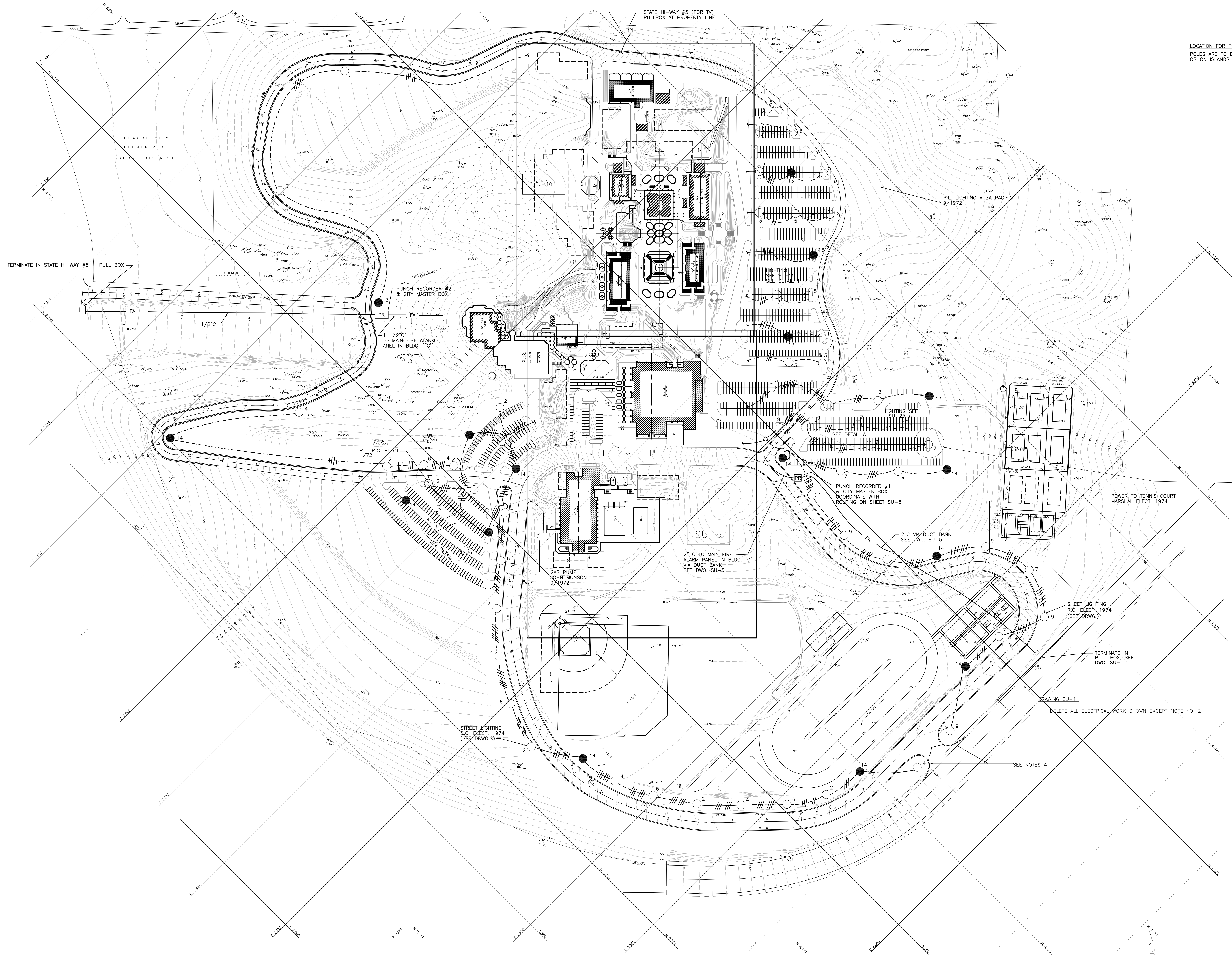
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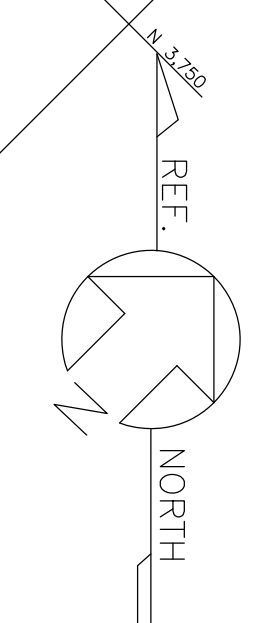
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SU-10



DETAIL A
NO SCALE
LOCATION FOR POLES IN PARKING AREAS
POLES ARE TO BE LOCATED BETWEEN WHEEL STOPS
OR ON ISLANDS ONLY

- NOTES
1. ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING ARE TYPE "AX"
 2. FOR CONTINUATION OF CIRCUITS IN OUTLINED AREAS SU-9 & SU-10, SEE RESPECTIVE DRAWINGS.
 3. ALL CONDUIT RUNS ON THIS DRAWING ARE 2" AND ALL WIRE #8 AWG, UNLESS NOTES OTHERWISE. (FOR POWER)
 4. FOR EXACT LOCATIONS OF ALL ROADWAY LIGHTING FIXTURES ONLY, SEE 1/4"=40' SCALE ROADWAY PLANS (DO NOT SCALE THIS DRAWING)



SITE LIGHTING
ROADS & (PARKING SEE SU-2)
SCALE DATE 2-20-67 JOB NO: 5386

SU-11

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TERMINATE IN STATE HI-WAY #5 - PULL BOX

REDWOOD CITY ELEMENTARY SCHOOL DISTRICT

STATE HI-WAY #5 (FOR TV) PULLBOX AT PROPERTY LINE

4" C

PUNCH RECORDER #2 & CITY MASTER BOX

1 1/2" C TO MAIN FIRE ALARM PANEL IN BLDG. "C"

P.L. LIGHTING ALZA PACIFIC 9/1972

PUNCH RECORDER #1 & CITY MASTER BOX COORDINATE WITH ROUTING ON SHEET SU-5

2" C TO MAIN FIRE ALARM PANEL IN BLDG. "C" VIA DUCT BANK SEE DWG. SU-5

2" C VIA DUCT BANK SEE DWG. SU-5

POWER TO TENNIS COURT MARSHAL ELECT. 1974

SHEET LIGHTING R.S. ELLSON, 1974 (SEE DRWG.)

TERMINATE IN PULL BOX SEE DWG. SU-5

STREET LIGHTING D.C. ELECT. 1974 (SEE DRWG.)

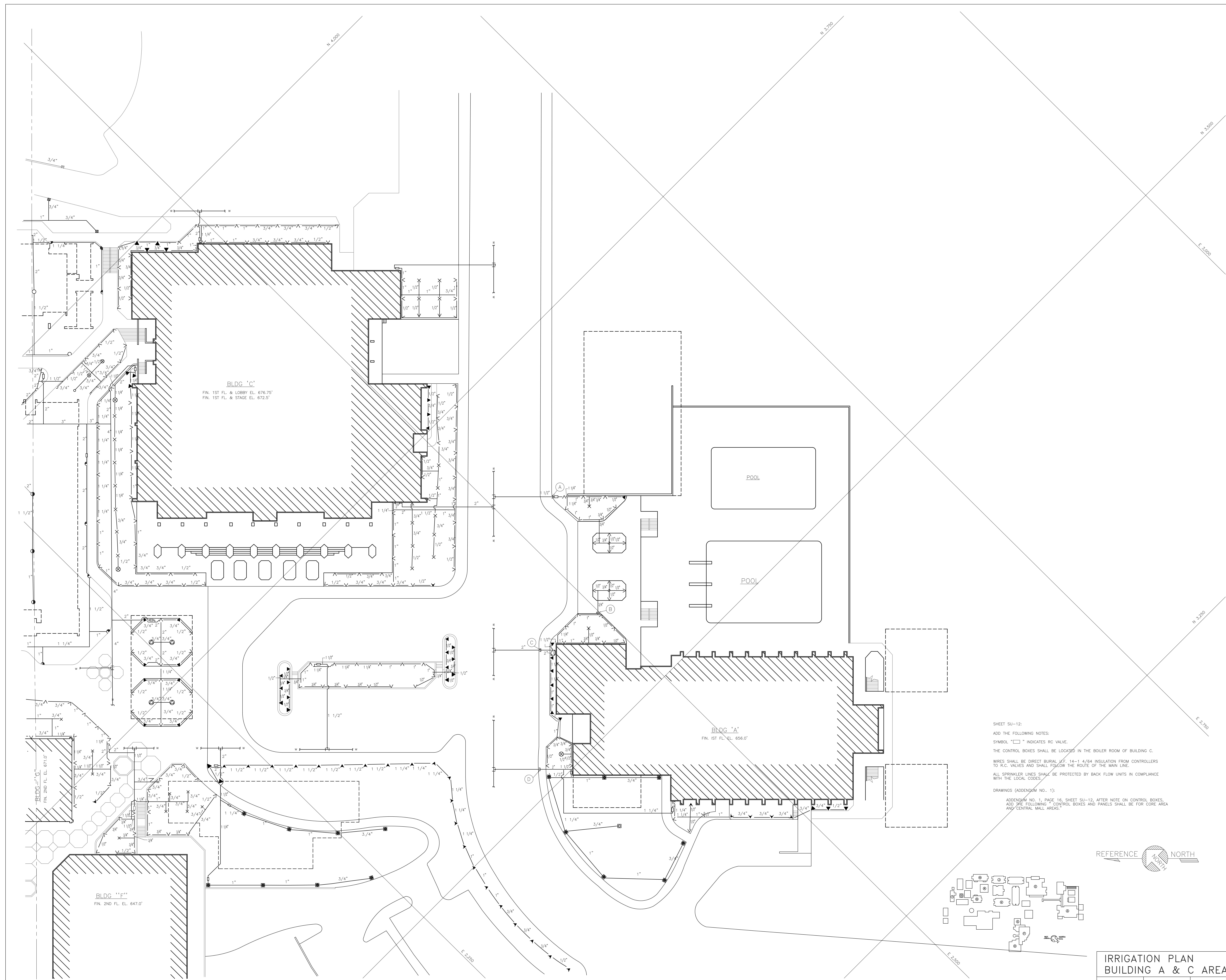
DELETE ALL ELECTRICAL WORK SHOWN EXCEPT NOTE NO. 2

SEE NOTES 4

SEE DETAIL "A"

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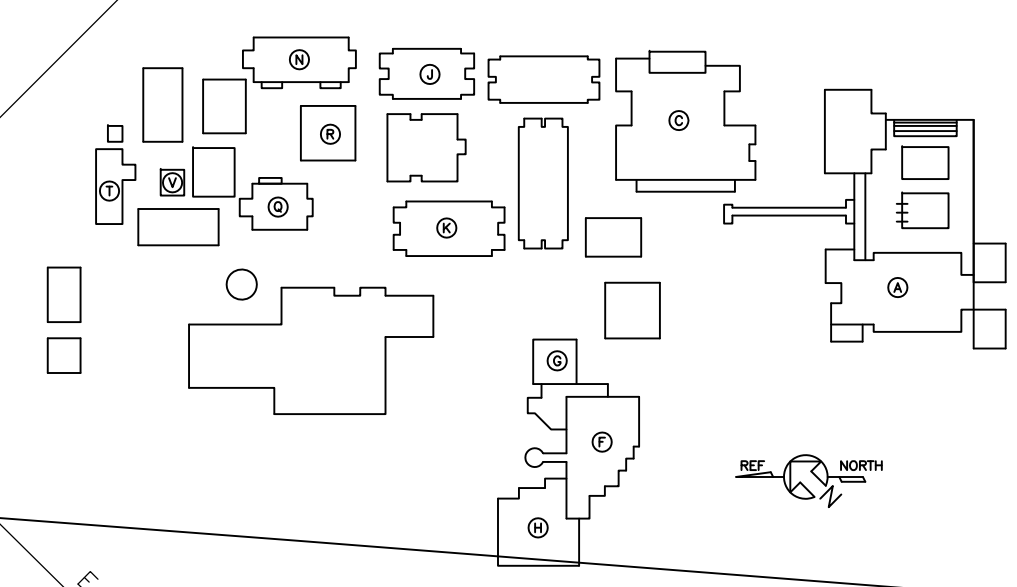
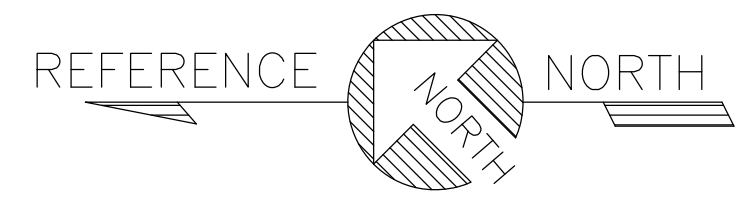


BLDG 'C'
FIN. 1ST FL. & LOBBY EL. 676.75'
FIN. 1ST FL. & STAGE EL. 672.5'

BLDG 'A'
FIN. 1ST FL. EL. 656.0'

BLDG 'F'
FIN. 2ND FL. EL. 647.0'

SHEET SU-12:
ADD THE FOLLOWING NOTES:
SYMBOL "□" INDICATES RC VALVE.
THE CONTROL BOXES SHALL BE LOCATED IN THE BOILER ROOM OF BUILDING C.
WIRES SHALL BE DIRECT BURIAL W/F 14-1 4/64 INSULATION FROM CONTROLLERS TO R.C. VALVES AND SHALL FOLLOW THE ROUTE OF THE MAIN LINE.
ALL SPRINKLER LINES SHALL BE PROTECTED BY BACK FLOW UNITS IN COMPLIANCE WITH THE LOCAL CODES.
DRAWINGS (ADDENDUM NO. 1):
ADDENDUM NO. 1, PAGE 16, SHEET SU-12, AFTER NOTE ON CONTROL BOXES, ADD THE FOLLOWING "CONTROL BOXES AND PANELS SHALL BE FOR CORE AREA AND CENTRAL MALL AREAS."



IRRIGATION PLAN
BUILDING A & C AREA

SCALE 1" = 20' DATE 2-20-67 JOB NO: 5486

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SOUTH CAMPUS
REDWOOD CITY, CALIFORNIA**

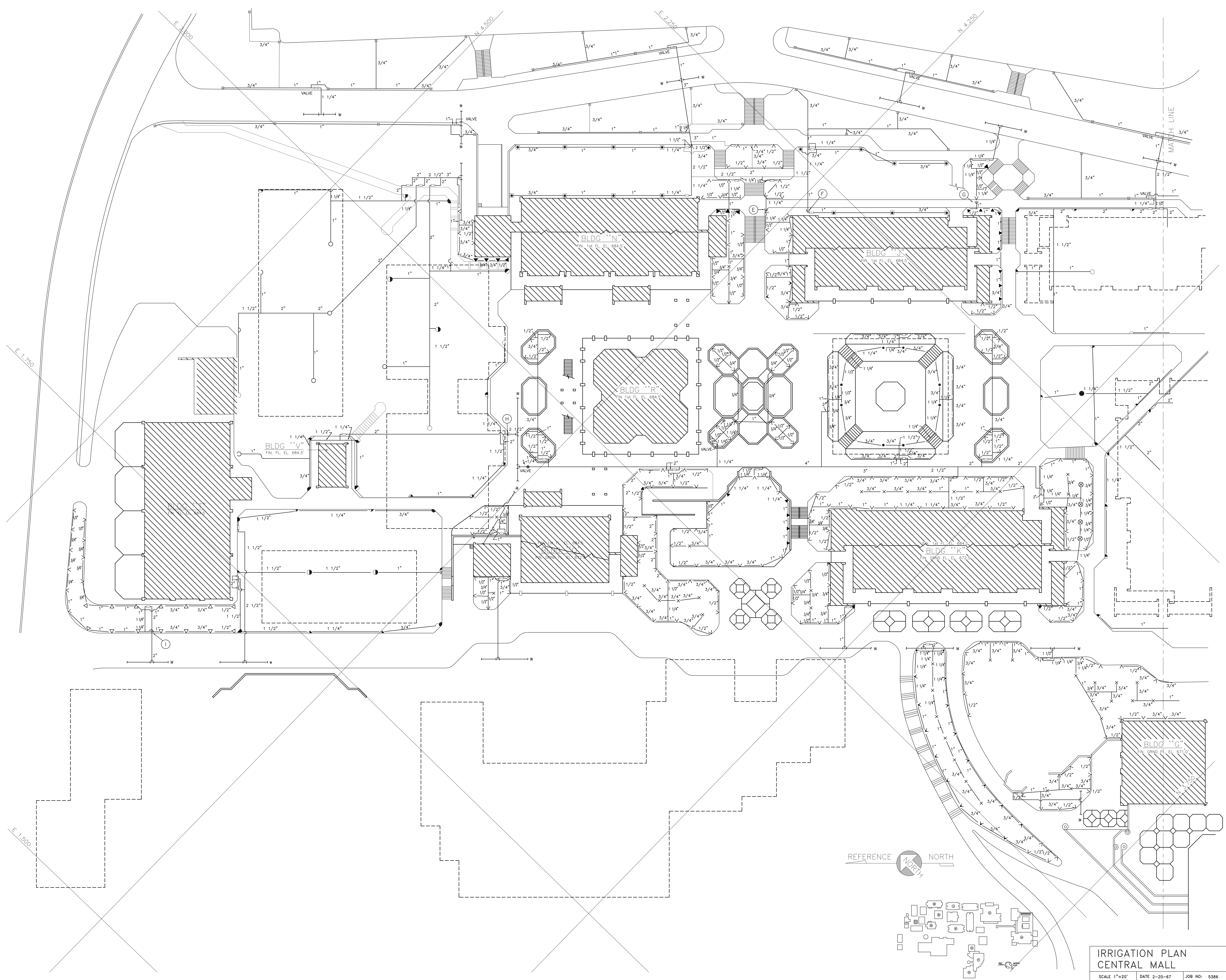
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SU-12



IRRIGATION PLAN
CENTRAL MALL
SCALE 1"=20' DATE 2-20-67 JOB NO: 5386

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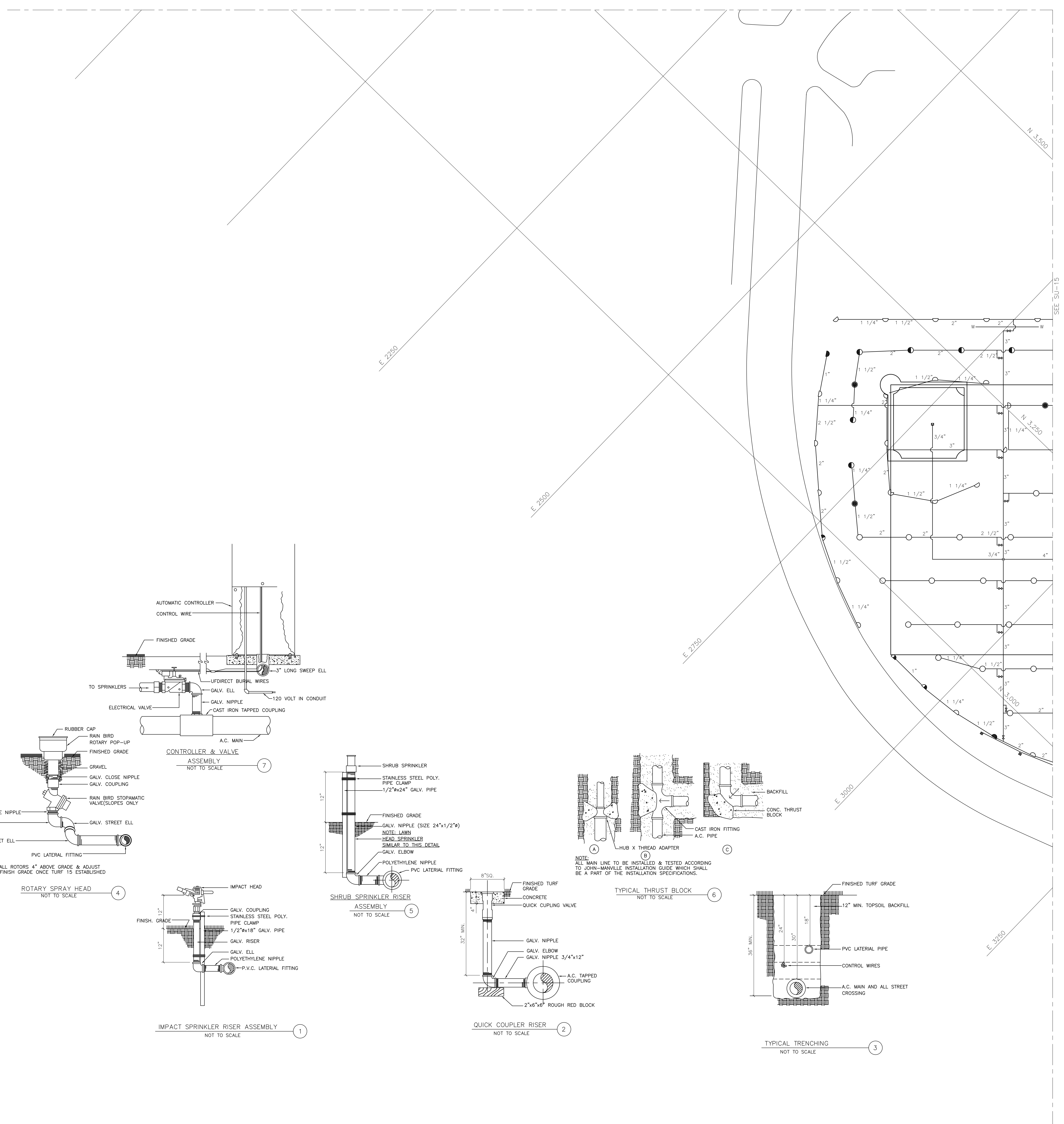
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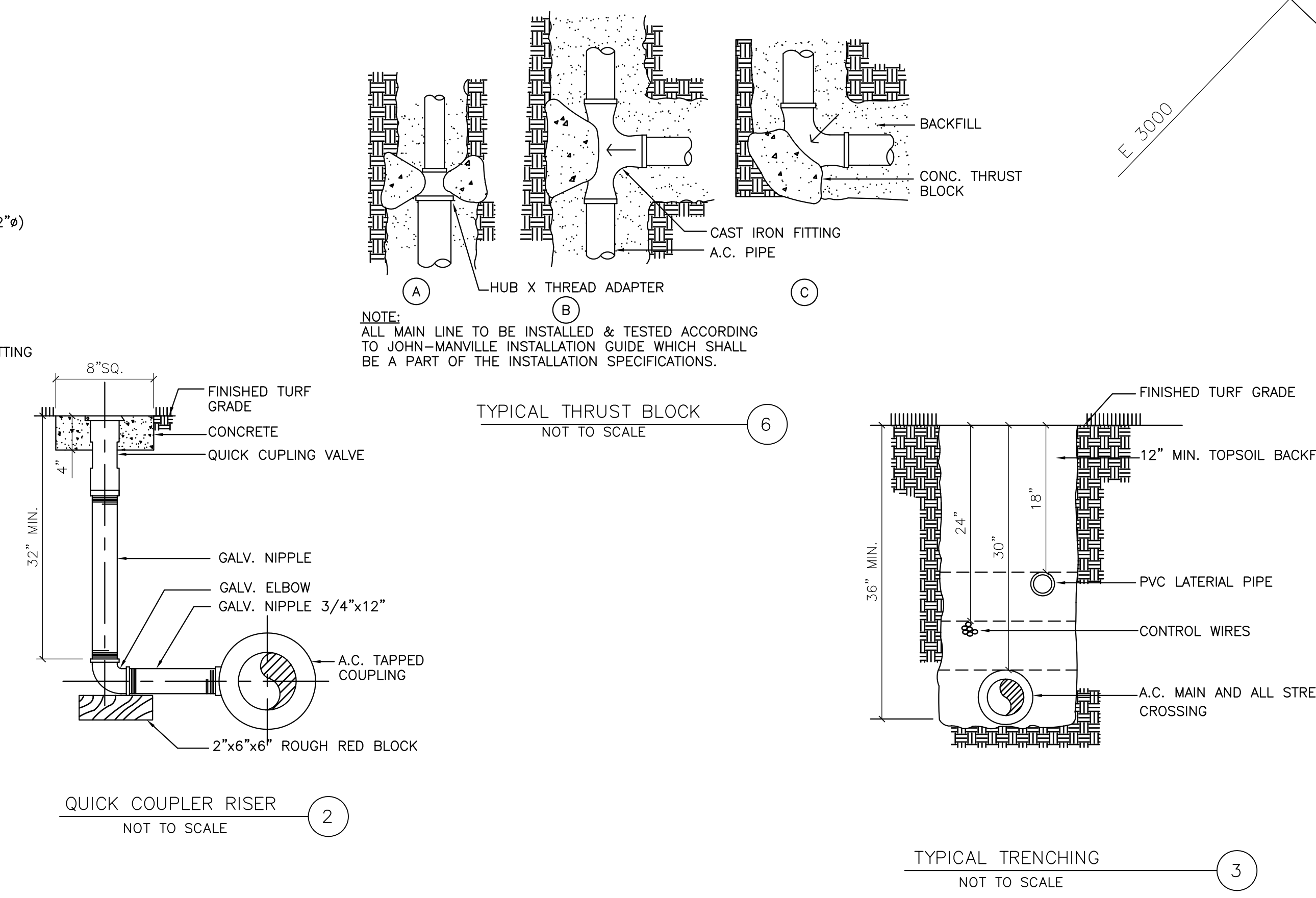
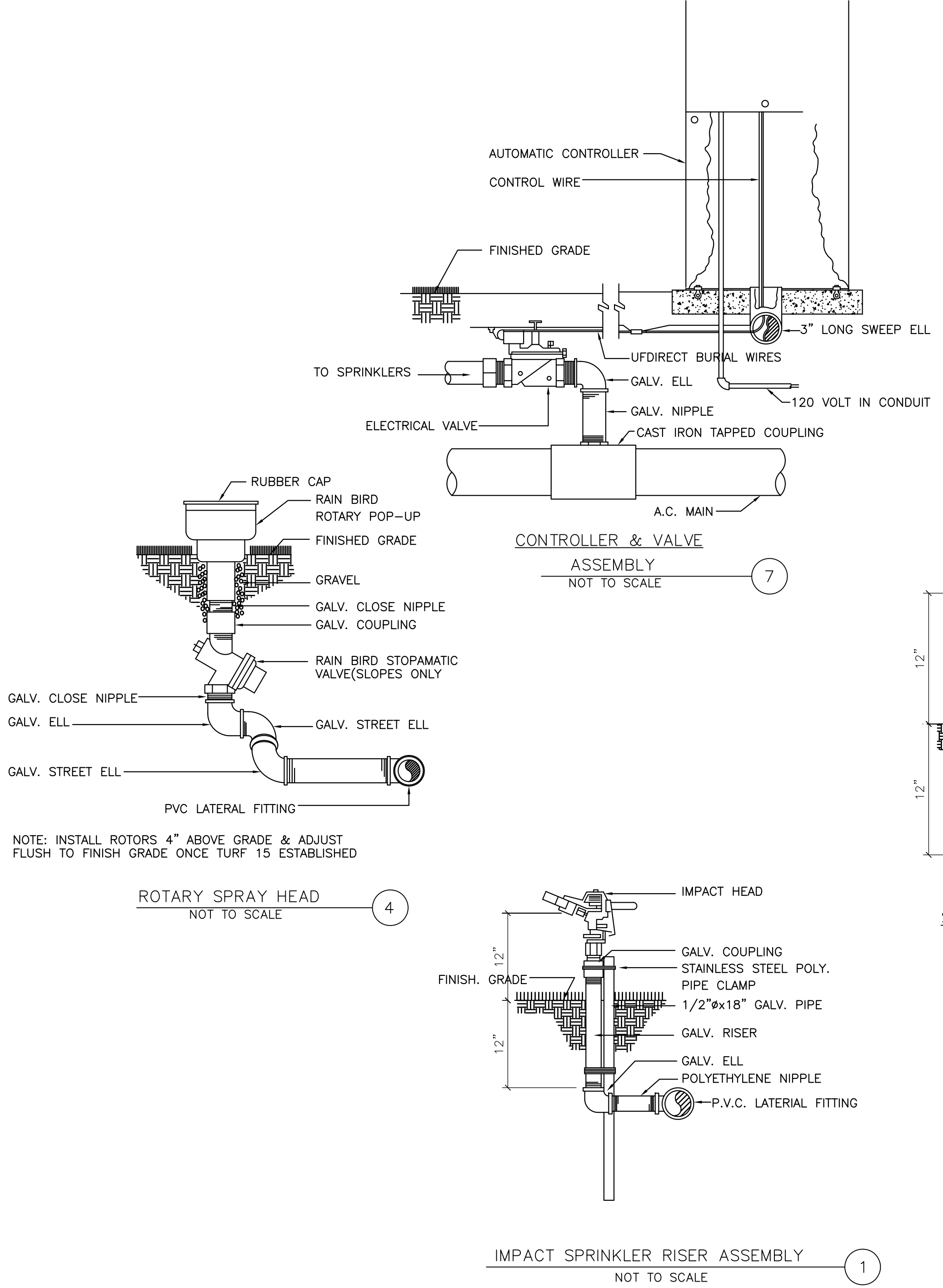
SU-13



SPRINKLER LEGEND				
SYMBOL	G.P.M.	MAX. TRANS. SPACING	RAIN BIRD CATALOG NO.	BUCKNER CATALOG NO.
○	15.2	60"	41 RC-13/64"x11/64"	1330
●	13.4	58"	41 RC-13/64"x11/64"	1330
◐	7.7	58"	31 RC-3/16"	1330
◑	14.0	60"	47 RC-1/4"	8280H
◒	10.4	60"	37 RC-7/32"	8280H
◓	10.4	60"	37 RC-3/16"	8280H
◔	7.7	50"	44 LT	13
◕	60"	50"	33 LT	13
×	3.4	50"	A7-171-F	400 JS-U
⊗	1.5		A7-171-FU	400 JS-U
▽	2.0		A7-171-H	400 JS-U
◂	0.8		A7-171-OU	400 JS-U
◃	1.8		A7-171-TO	400S-U
◄	3.0		A8-181-T	403-T
◅	4.40		20-5/32" ADJ	86062
◆	4.40		25-5/32" ADJ	56008U
◇	3.4		171 FU,T,&W	4005
◈	1.5		171 FU & HU	4005
◉	5.4		A7-171-FO	4005

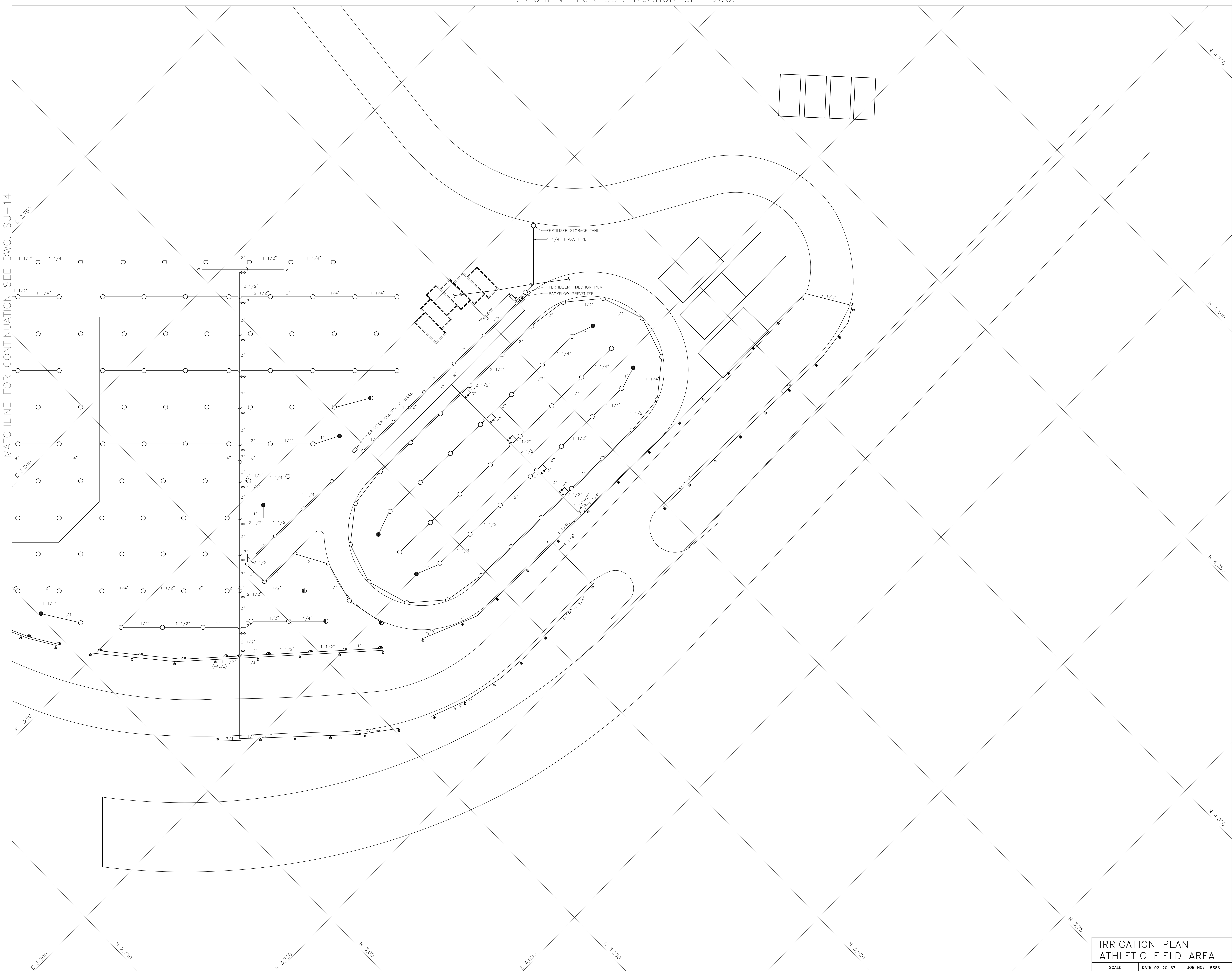
CONTROL BOX

IRRIGATION PIPING
 WATER DISTRIBUTION SYSTEM



MATCHLINE FOR CONTINUATION SEE DWG.

MATCHLINE FOR CONTINUATION SEE DWG. SU-14



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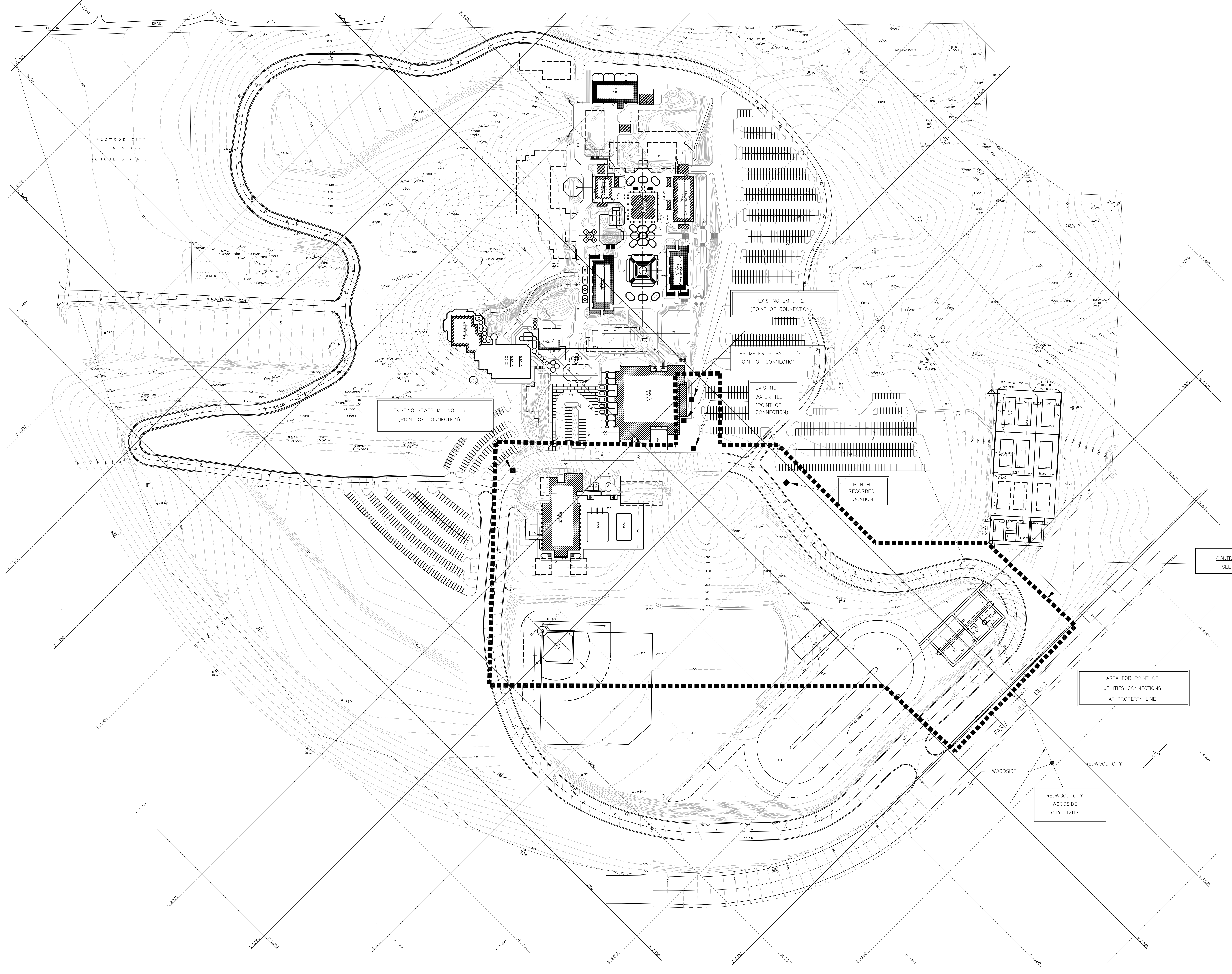
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IRRIGATION PLAN
 ATHLETIC FIELD AREA

SU-15

SCALE DATE 02-20-67 JOB NO: 5386

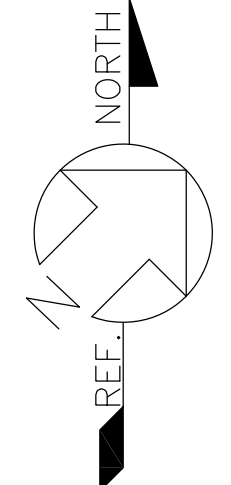


CONTRACT LIMITS
SEE NOTE 1

NOTES

1. ALL WORK SHOWN ON SHEET SU-22 IS INCLUDED WITHIN OUTLINED AREA
2. THIS DRAWING ISSUED FOR CONTRACTOR USE IN DETERMINING PROXIMITY TO ROADS & BUILDINGS WITH RELATION TO GRADES, FUTURE CONSTRUCTION, ETC. DO NOT SCALE (EXACT LOCATIONS) AS DETERMINED AT THE JOB SITE)

MASTER PLAN
SCALE 1"=100'



SITE UTILITIES
OUTSIDE BUILDING CORE AREA
MASTER PLAN & CONTRACT LIMITS
SCALE 1"=100' DATE FEB 21 68 JOB NO: 5386

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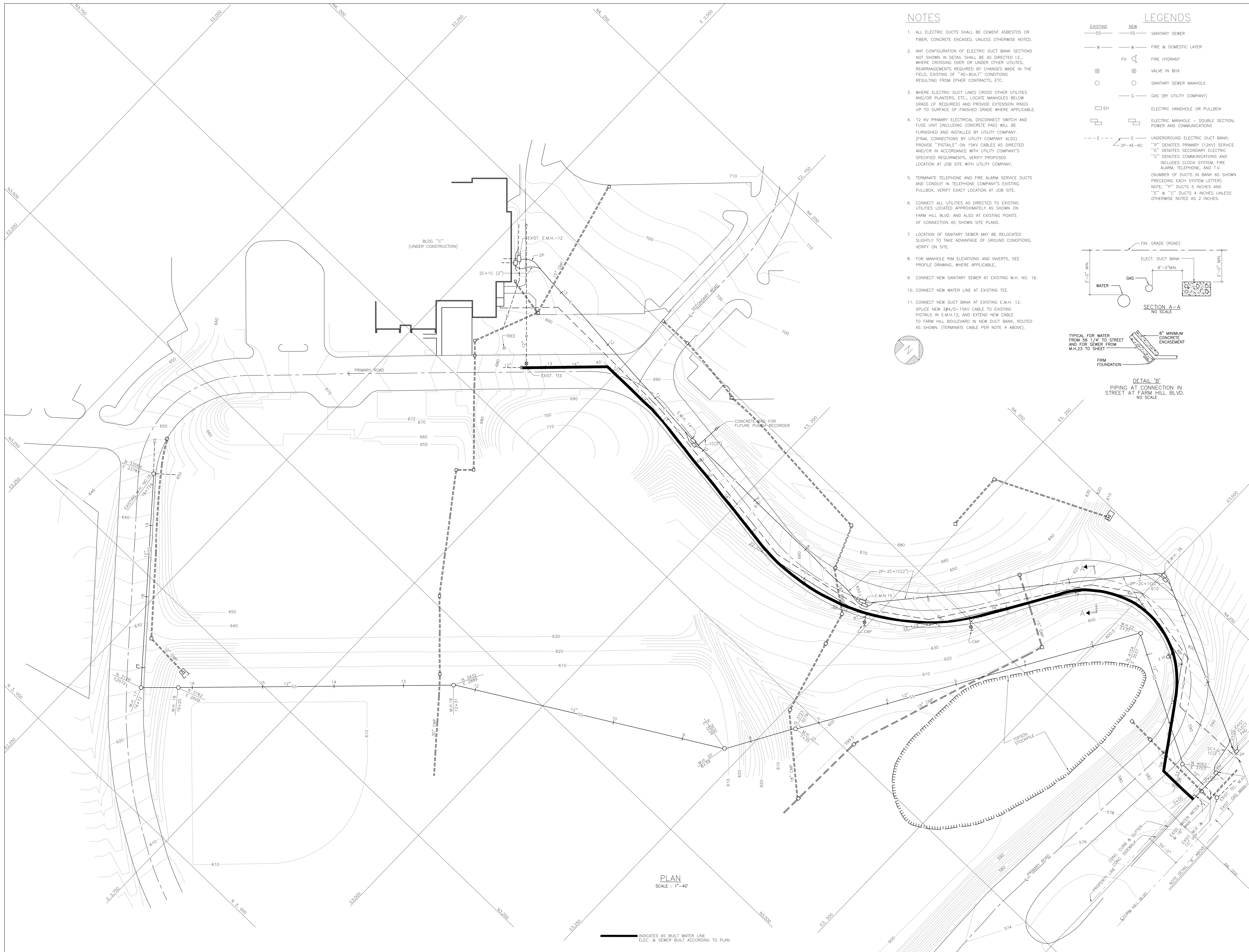
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SU-21

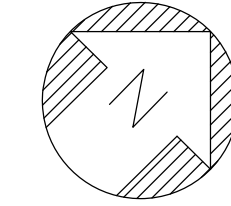
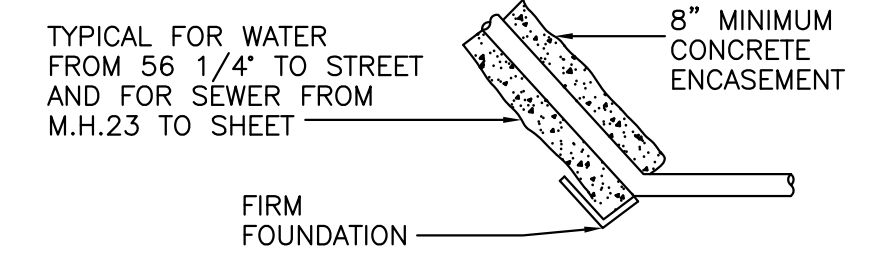
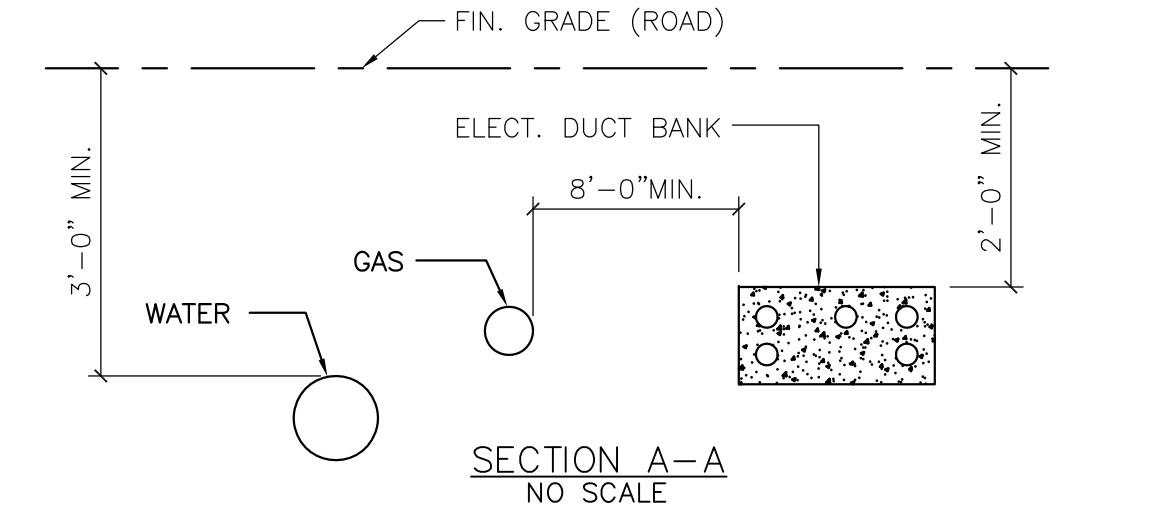


NOTES

- ALL ELECTRIC DUCTS SHALL BE CEMENT ASBESTOS OR FIBER, CONCRETE ENCASED, UNLESS OTHERWISE NOTED.
- ANY CONFIGURATION OF ELECTRIC DUCT BANK SECTIONS NOT SHOWN IN DETAIL SHALL BE AS DIRECTED I.E., WHERE CROSSING OVER OR UNDER OTHER UTILITIES, REARRANGEMENTS REQUIRED BY CHANGES MADE IN THE FIELD, EXISTING OF "AS-BUILT" CONDITIONS RESULTING FROM OTHER CONTRACTS, ETC.
- WHERE ELECTRIC DUCT LINES CROSS OTHER UTILITIES AND/OR PLANTERS, ETC., LOCATE MANHOLES BELOW GRADE (IF REQUIRED) AND PROVIDE EXTENSION RINGS UP TO SURFACE OF FINISHED GRADE WHERE APPLICABLE.
- 12 KV PRIMARY ELECTRICAL DISCONNECT SWITCH AND FUSE UNIT (INCLUDING CONCRETE PAD) WILL BE FURNISHED AND INSTALLED BY UTILITY COMPANY. (FINAL CONNECTIONS BY UTILITY COMPANY ALSO). PROVIDE "PIGTAILS" ON 15KV CABLES AS DIRECTED AND/OR IN ACCORDANCE WITH UTILITY COMPANY'S SPECIFIED REQUIREMENTS, VERIFY PROPOSED LOCATION AT JOB SITE WITH UTILITY COMPANY.
- TERMINATE TELEPHONE AND FIRE ALARM SERVICE DUCTS AND CONDUIT IN TELEPHONE COMPANY'S EXISTING PULLBOX, VERIFY EXACT LOCATION AT JOB SITE.
- CONNECT ALL UTILITIES AS DIRECTED TO EXISTING UTILITIES LOCATED APPROXIMATELY AS SHOWN ON FARM HILL BLVD. AND ALSO AT EXISTING POINTS OF CONNECTION AS SHOWN SITE PLANS.
- LOCATION OF SANITARY SEWER MAY BE RELOCATED SLIGHTLY TO TAKE ADVANTAGE OF GROUND CONDITIONS; VERIFY ON SITE.
- FOR MANHOLE RIM ELEVATIONS AND INVERTS, SEE PROFILE DRAWING, WHERE APPLICABLE.
- CONNECT NEW SANITARY SEWER AT EXISTING M.H. NO. 16.
- CONNECT NEW WATER LINE AT EXISTING TEE.
- CONNECT NEW DUCT BANK AT EXISTING E.M.H. 12. SPLICE NEW 3#4/0-15KV CABLE TO EXISTING PIGTAILS IN E.M.H.12, AND EXTEND NEW CABLE TO FARM HILL BOULEVARD IN NEW DUCT BANK, ROUTED AS SHOWN. (TERMINATE CABLE PER NOTE 4 ABOVE).

LEGENDS

EXISTING	NEW	
SS	SS	SANITARY SEWER
W	W	FIRE & DOMESTIC LAYER
EH	EH	ELECTRIC HANDHOLE OR PULLBOX
EH	EH	ELECTRIC MANHOLE - DOUBLE SECTION, POWER AND COMMUNICATIONS
EH	EH	UNDERGROUND ELECTRIC DUCT BANK; "1P" DENOTES PRIMARY (12KV) SERVICE "1C" DENOTES SECONDARY ELECTRIC "1C" DENOTES COMMUNICATIONS AND INCLUDES CLOCK SYSTEM, FIRE ALARM, TELEPHONE, AND T.V. (NUMBER OF DUCTS IN BANK AS SHOWN PRECEDING EACH SYSTEM LETTER)
EH	EH	NOTE: "1P" DUCTS 5 INCHES AND "1C" & "1C" DUCTS 4 INCHES UNLESS OTHERWISE NOTED AS 2 INCHES.



PLAN
SCALE : 1"=40'

INDICATES AS BUILT WATER LINE, ELEC. & SEWER BUILT ACCORDING TO PLAN

SITE UTILITIES OUTSIDE BUILDING CORE AREA UTILITIES PLAN
SCALE AS SHOWN DATE FEB, 21, 68 JOB NO: 5386

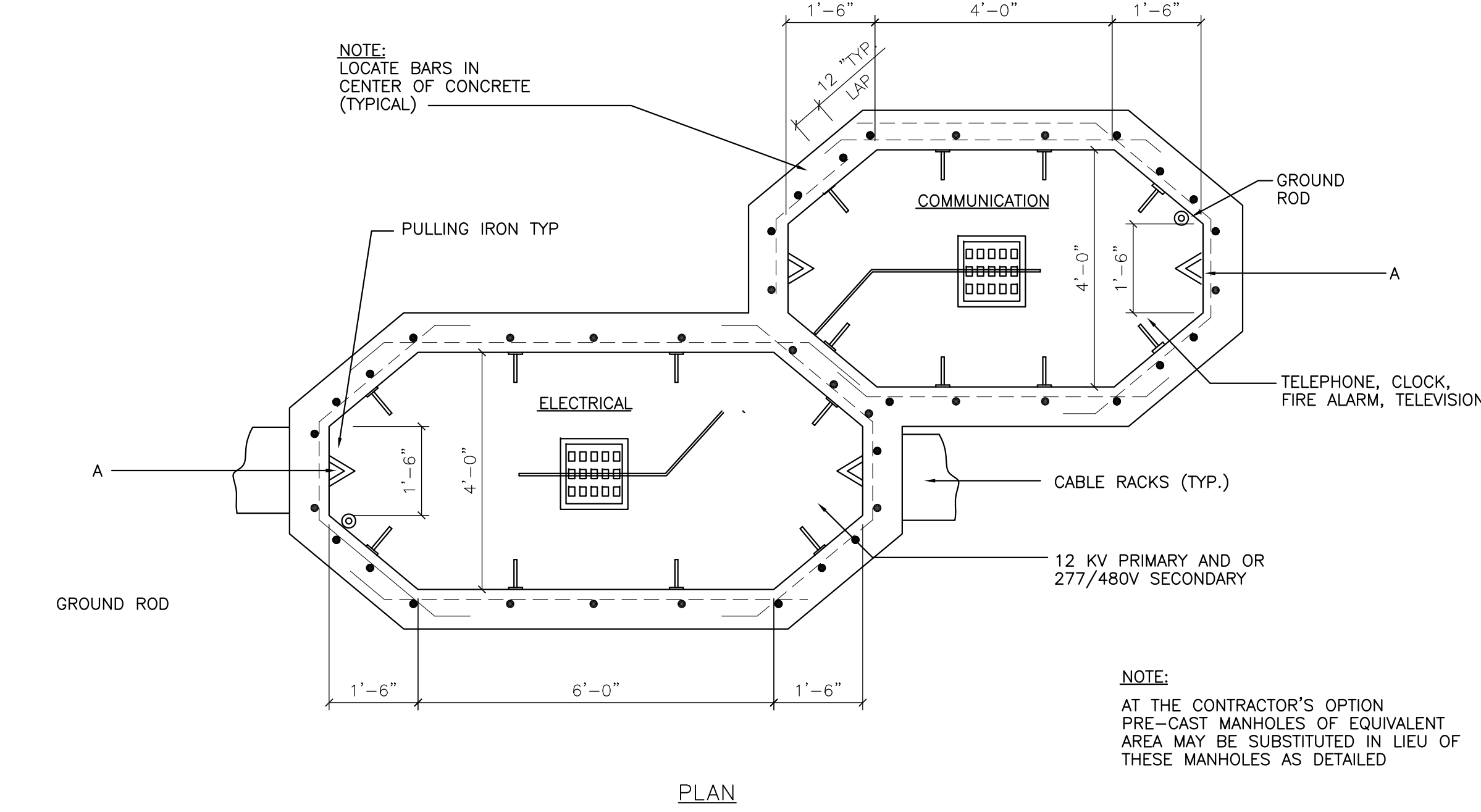
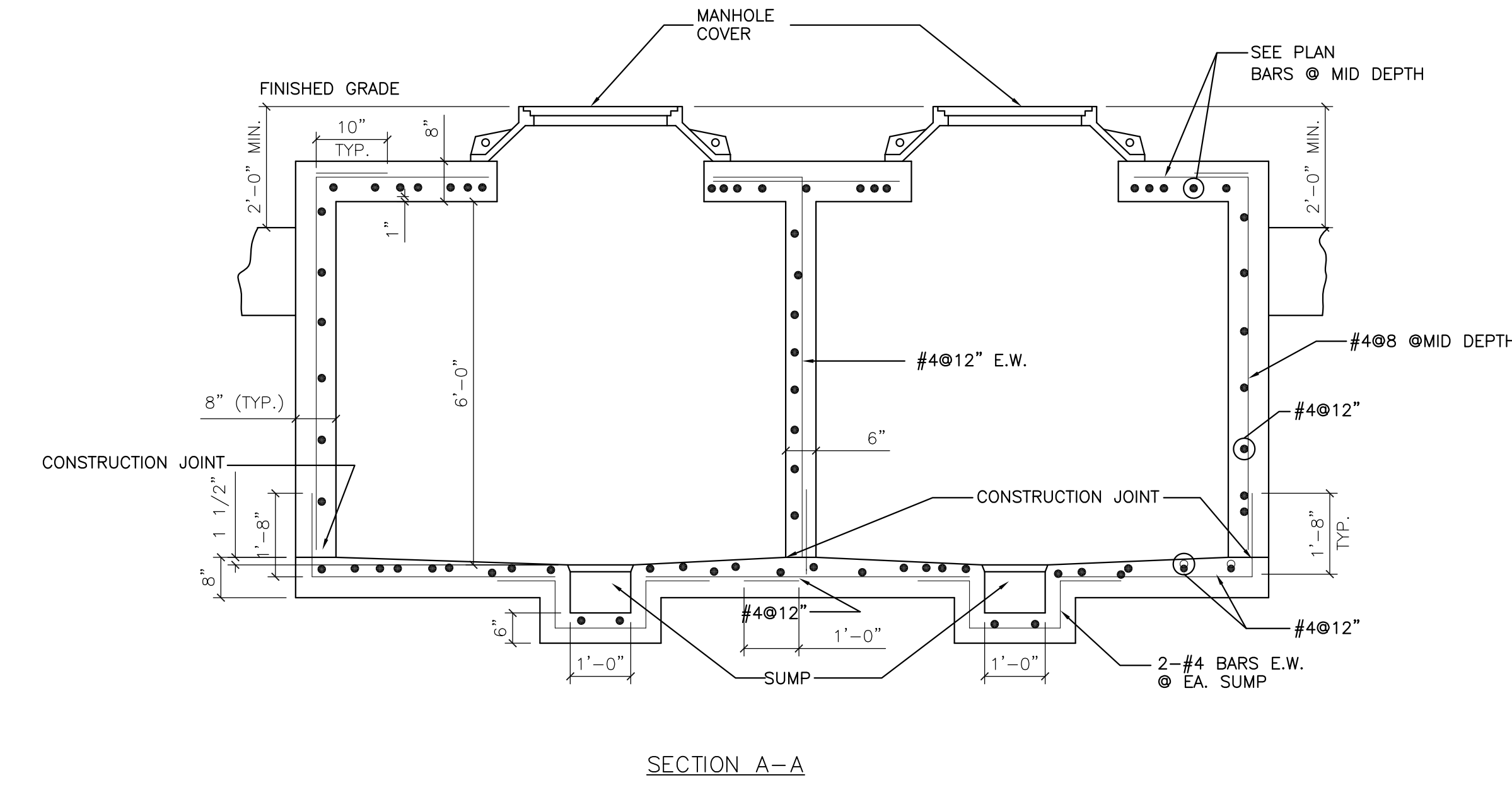
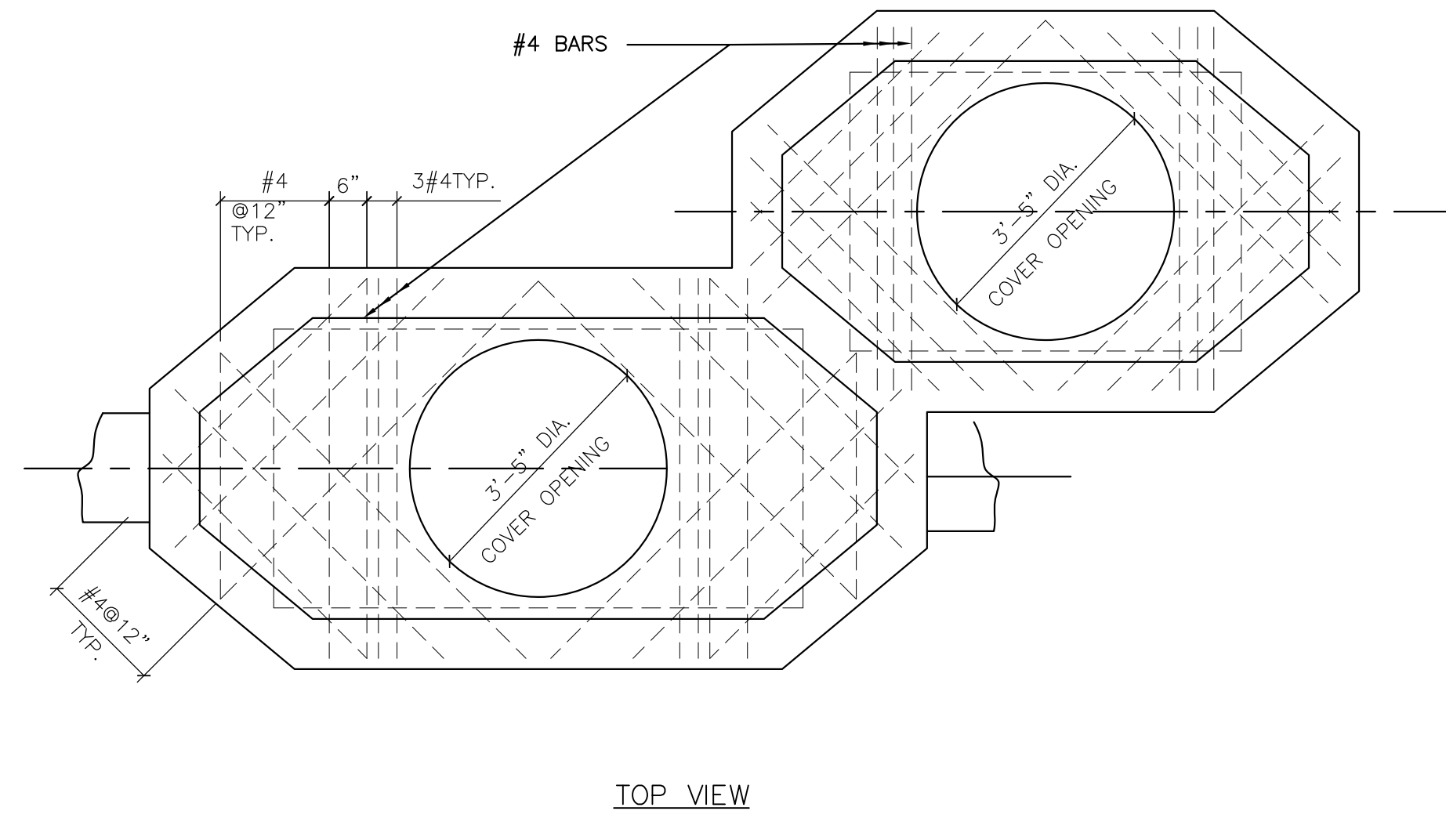
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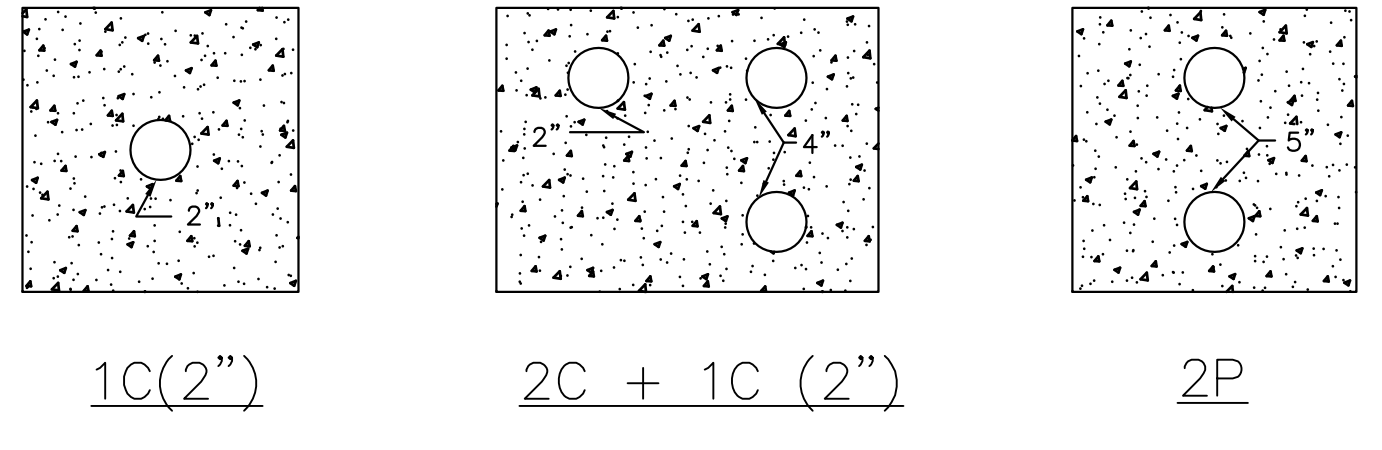
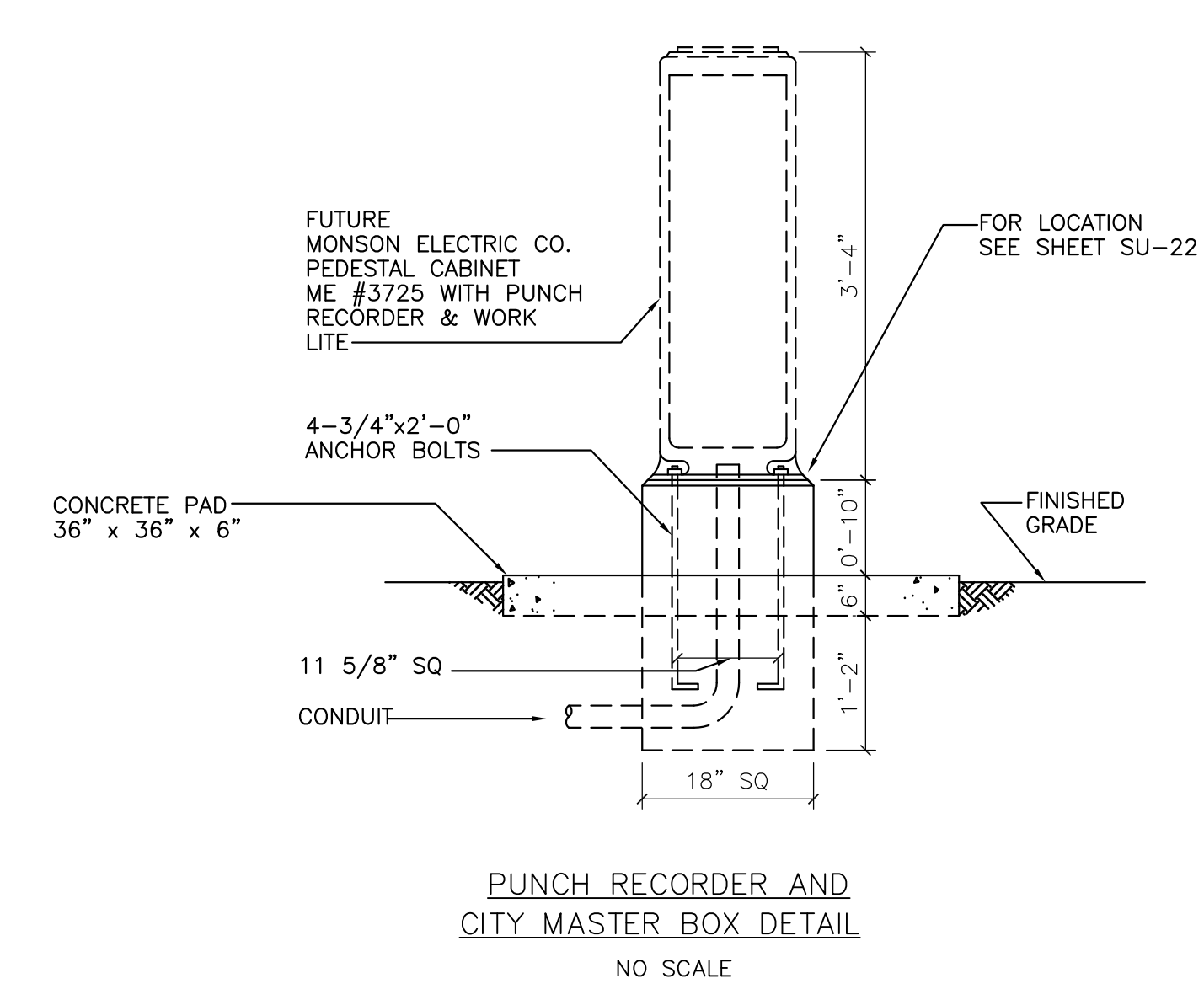
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JULIO LEON BORTOLAZZO
SAN MATEO JUNIOR COLLEGE DISTRICT

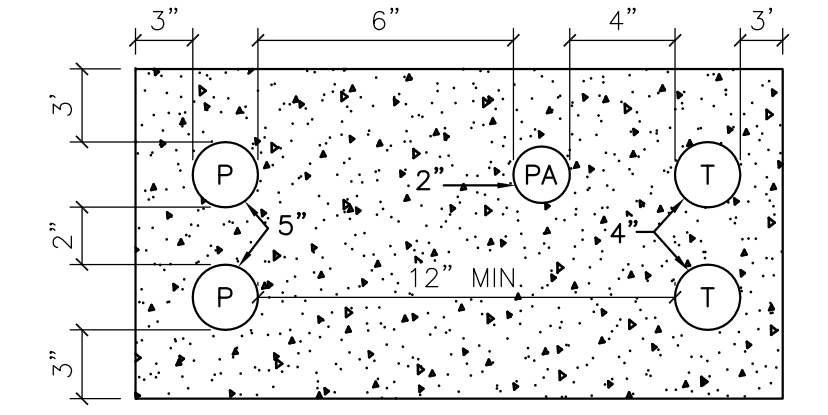
SU-22



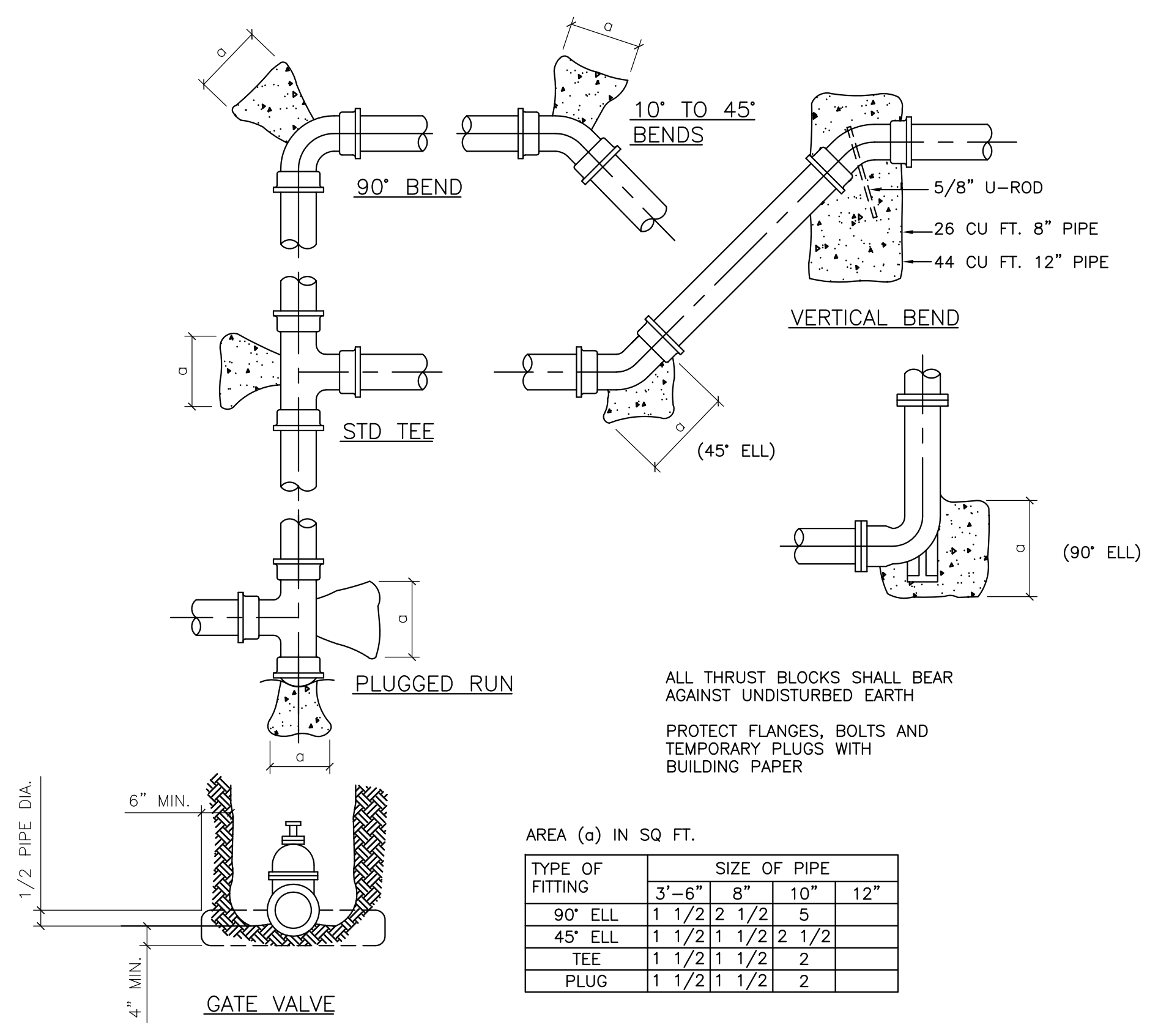
ELECTRICAL MANHOLE DETAIL
NO SCALE



UNDER GROUND DUCT DETAILS
NO SCALE



INCOMING SERVICE ONLY
SEE SHEET SU-22 FOR LOCATION

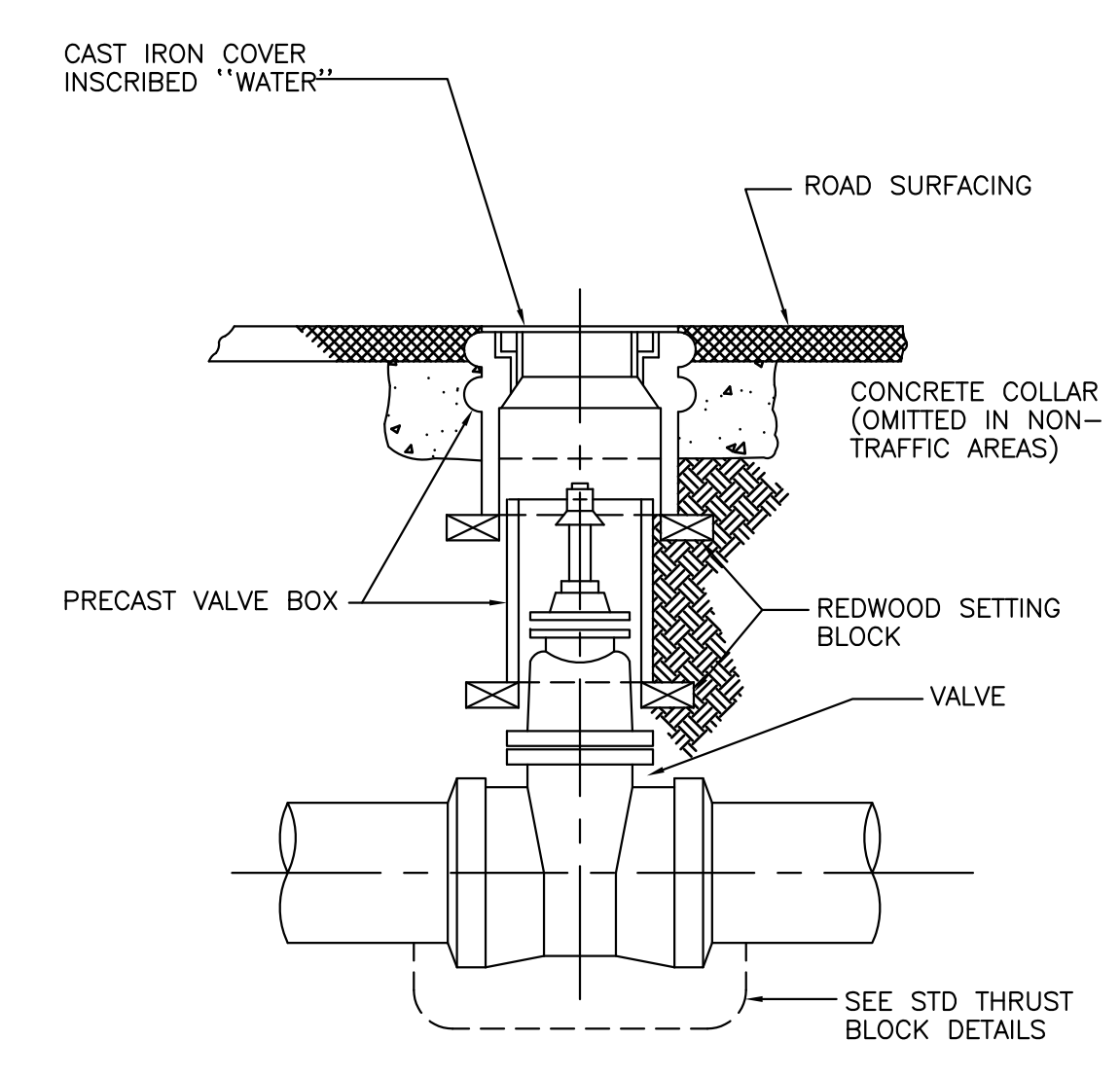


AREA (a) IN SQ. FT.

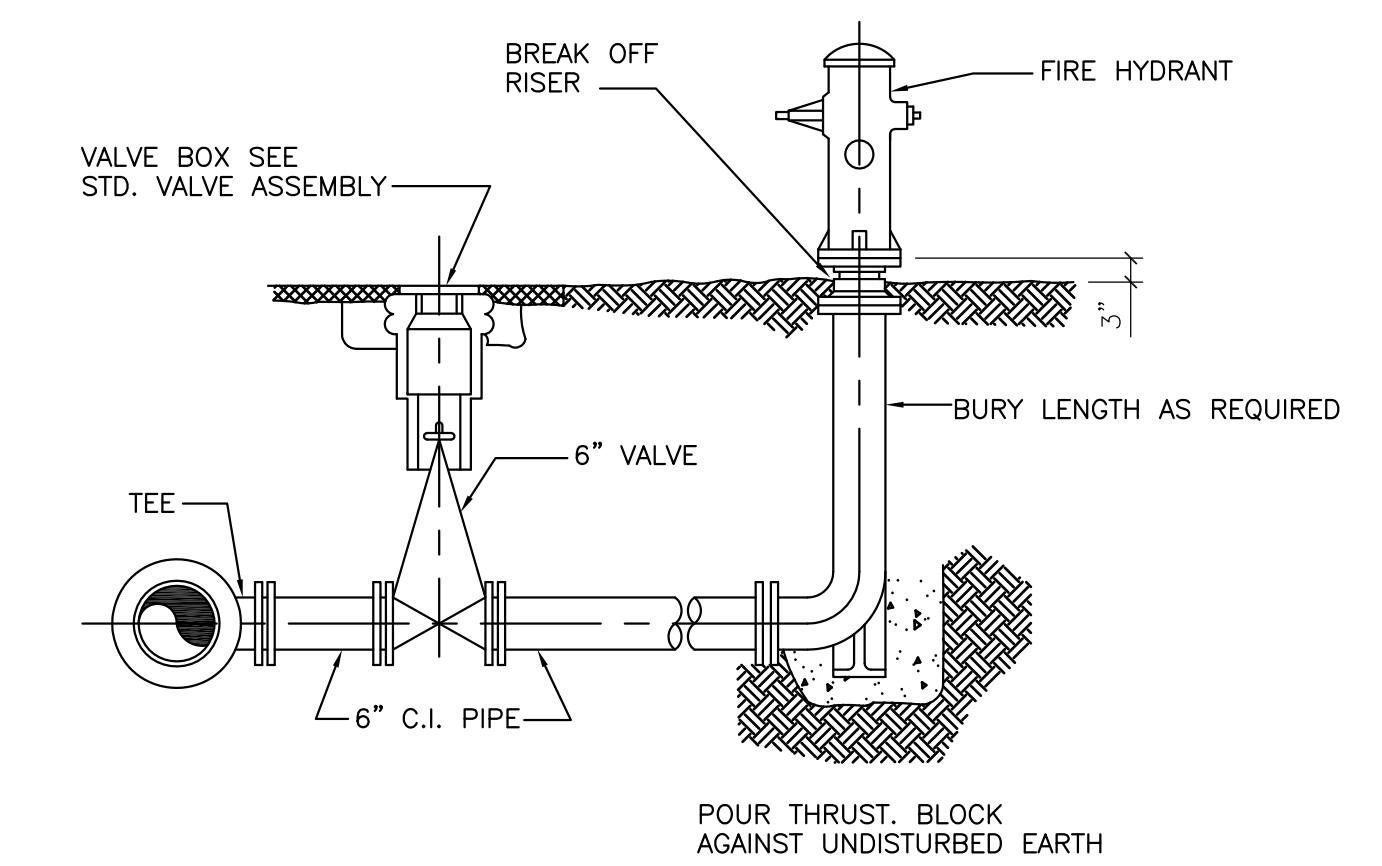
TYPE OF FITTING	3" - 4"	6"	8"	10"	12"
90° ELL	1 1/2	2	1 1/2	5	
45° ELL	1 1/2	1	1 1/2	2	1 1/2
TEE	1 1/2	1	1 1/2	2	
PLUG	1 1/2	1	1 1/2	2	

STANDARD THRUST BLOCK DETAILS
NO SCALE

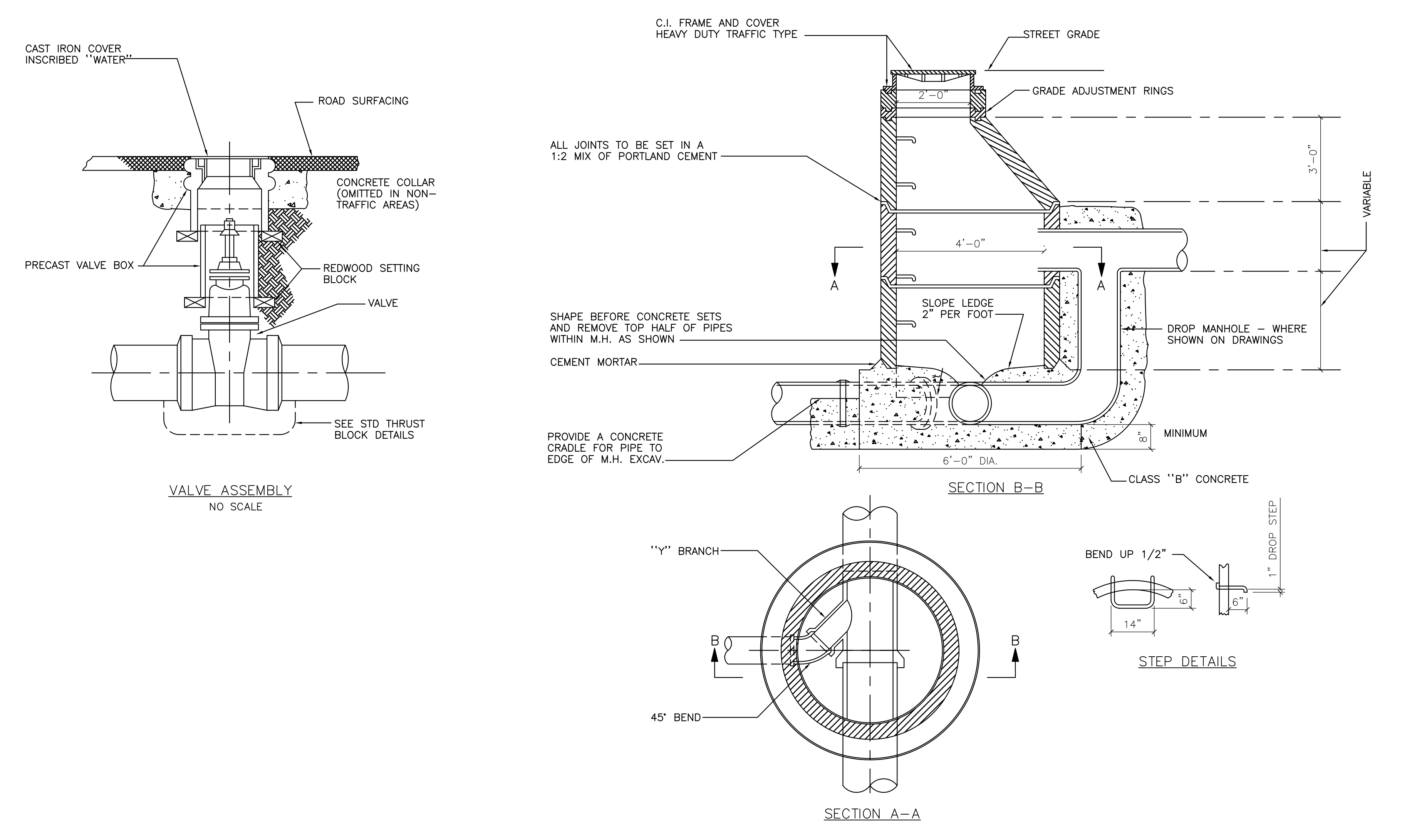
NOTE: PROVIDE THRUST BLOCK AT ANY PIPE OFFSET THAT IS GREATER THAN 5 DEGREES



VALVE ASSEMBLY
NO SCALE



STANDARD FIRE HYDRANT ASSEMBLY
NO SCALE



STANDARD PRECAST CONCRETE MANHOLE
NO SCALE

JOHN A. BLUME & ASSOC. ENGINEERS
CIVIL STRUCTURAL ENGINEERS
MECHANICAL & ELECTRICAL ENGINEERS
DOUGLAS BAYLIS
LANDSCAPE ARCHITECT
SAN FRANCISCO, CALIFORNIA

WELTON BECKETT AND ASSOCIATES
CHAN/RADER AND ASSOCIATES
ARCHITECTS
153 MAIDEN LANE, SAN FRANCISCO, CALIFORNIA

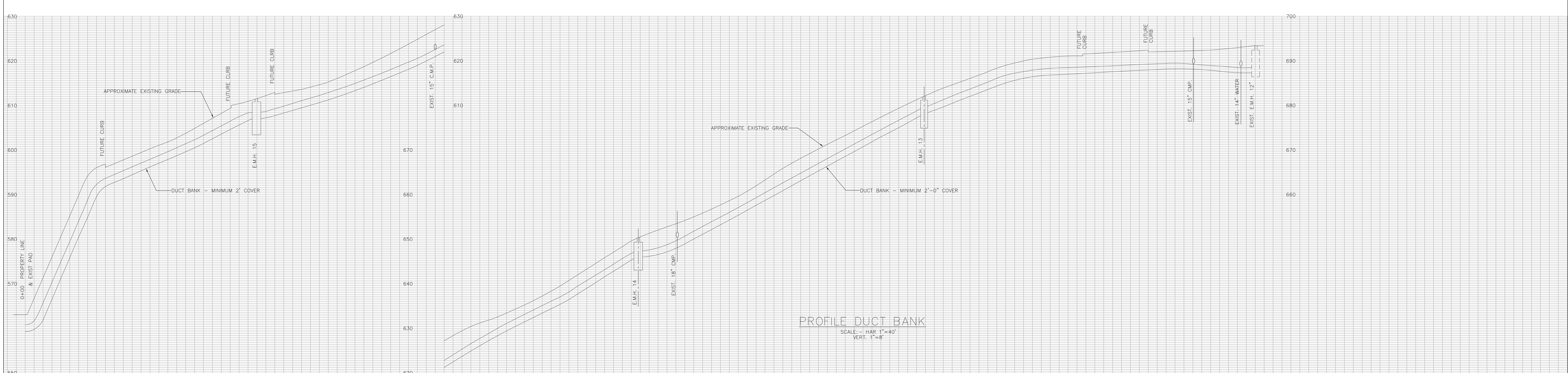
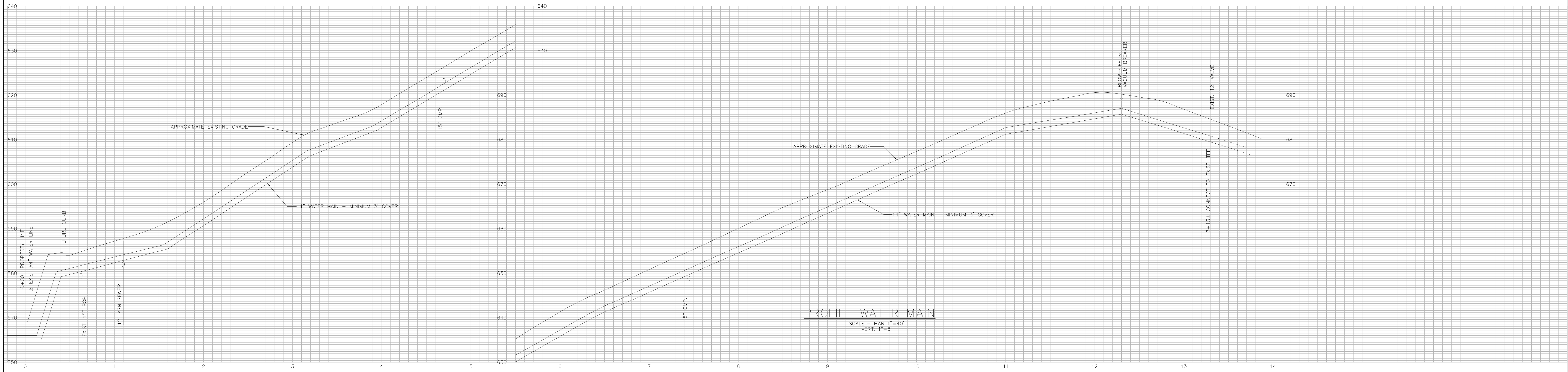
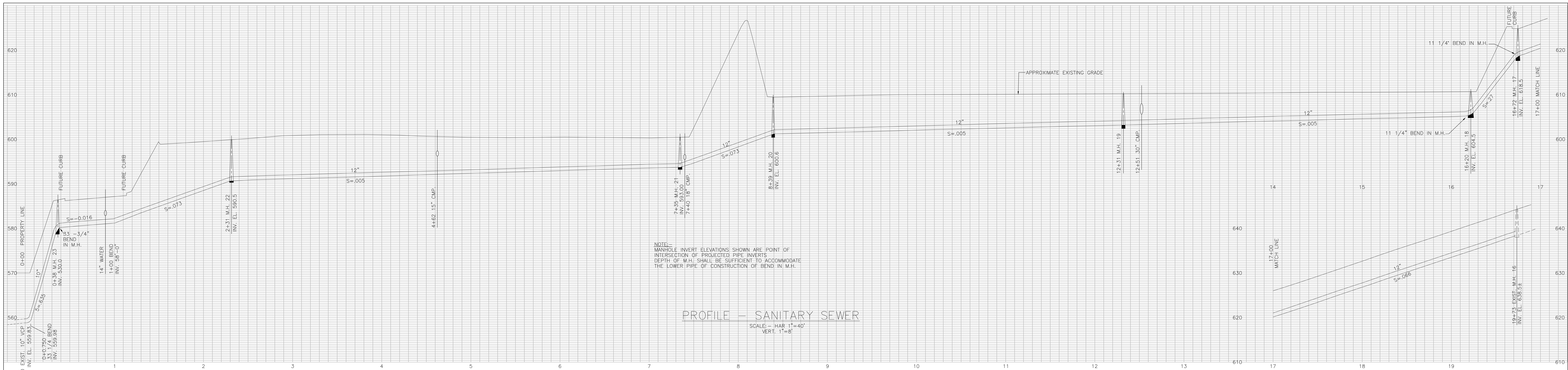
WELTON BECKETT AND ASSOCIATES - CHAN/RADER AND ASSOCIATES
ARCHITECTS
153 MAIDEN LANE, SAN FRANCISCO, CALIFORNIA

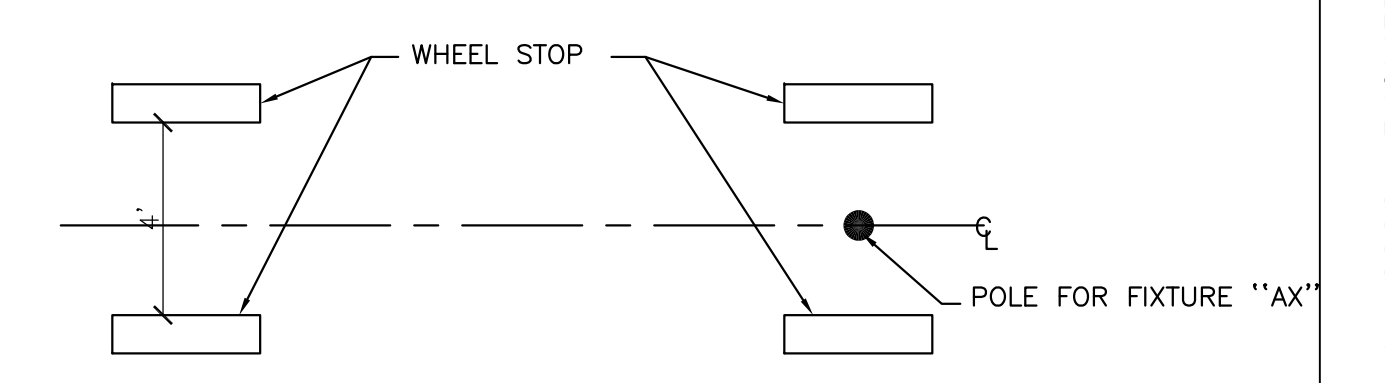
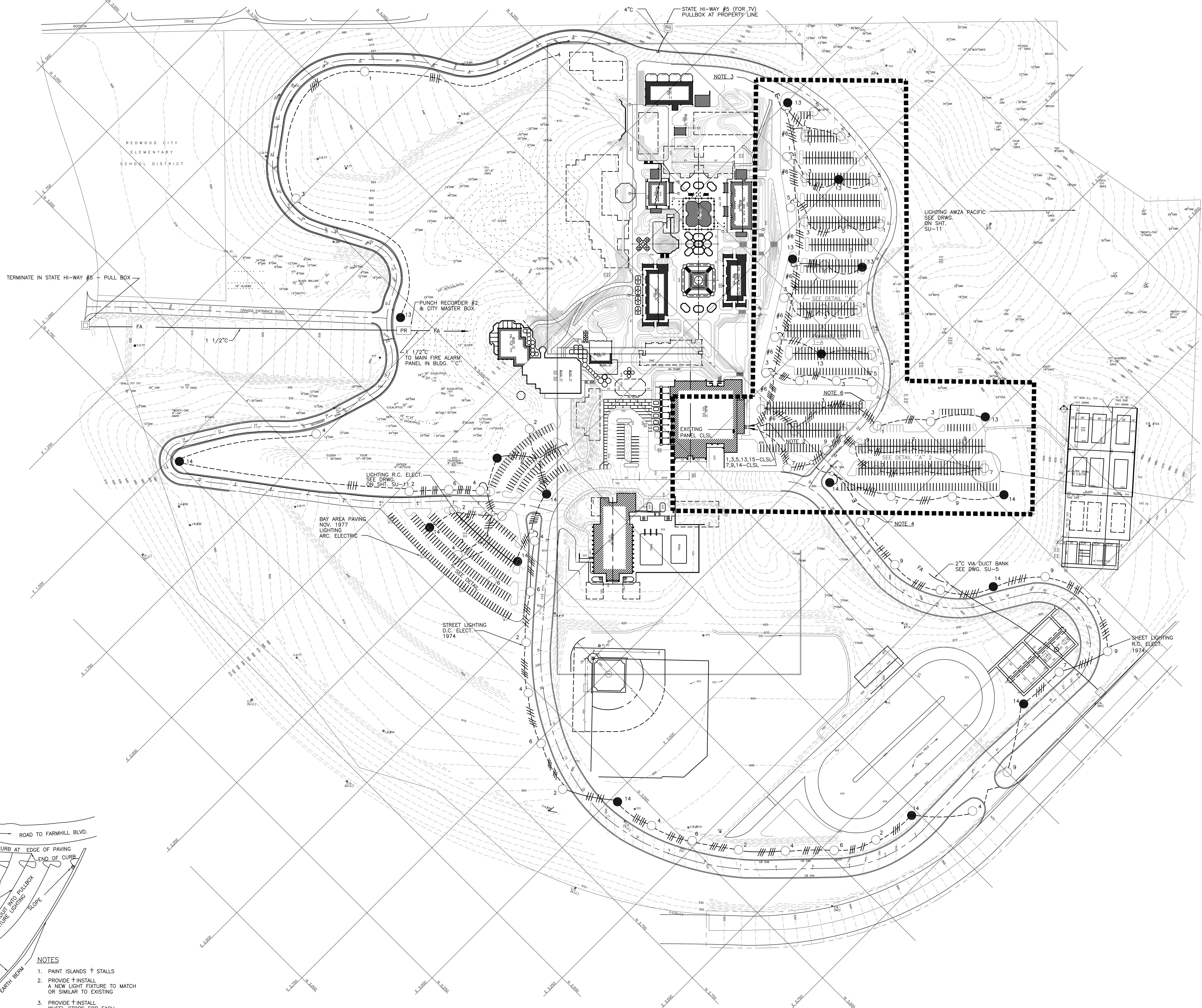
SAN MATEO JUNIOR COLLEGE DISTRICT
SOUTH CAMPUS
REDWOOD CITY, CALIFORNIA

JULIO L. BORTOLAZZO
MATEO V. FASANARO
SAN MATEO JUNIOR COLLEGE DISTRICT

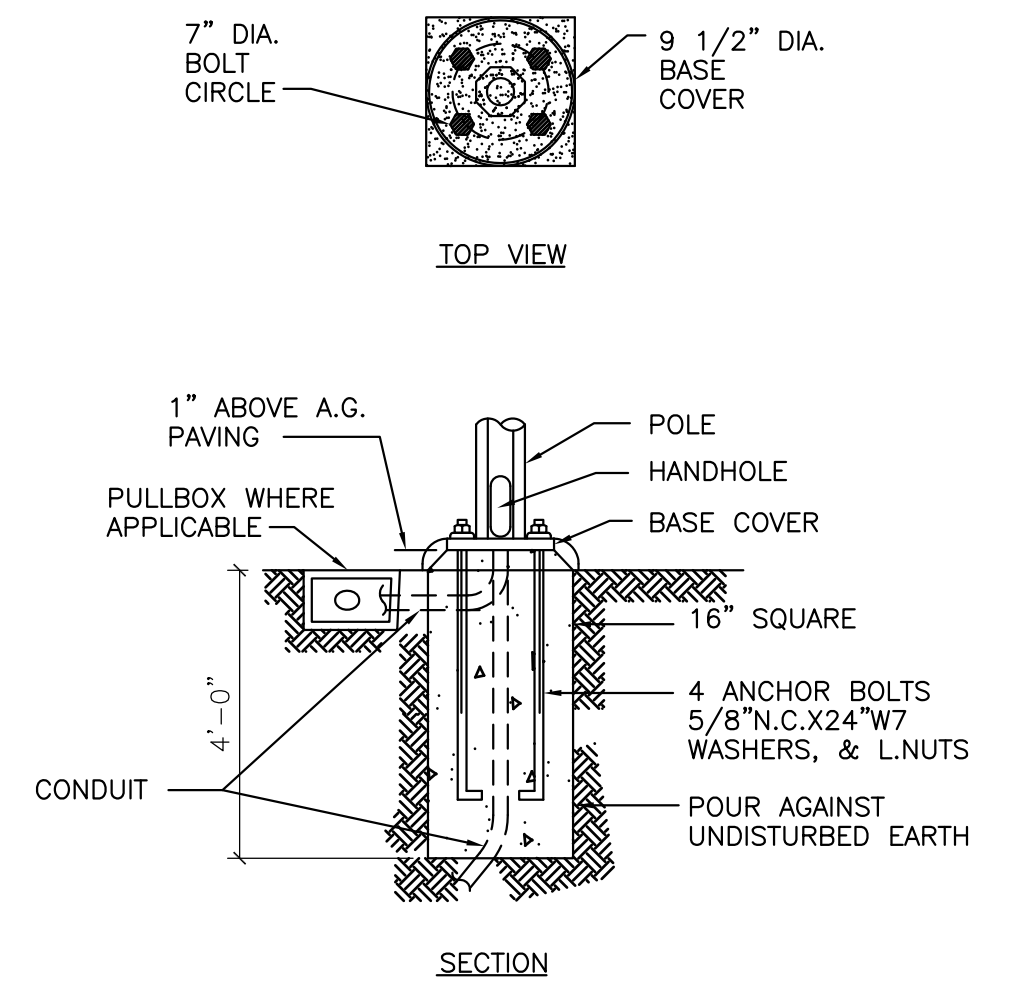
SITE UTILITIES
OUTSIDE BUILDING CORE AREA
MISCELLANEOUS DETAILS
SCALE AS SHOWN DATE FEB. 21, 68 JOB NO: 5386

SU-23





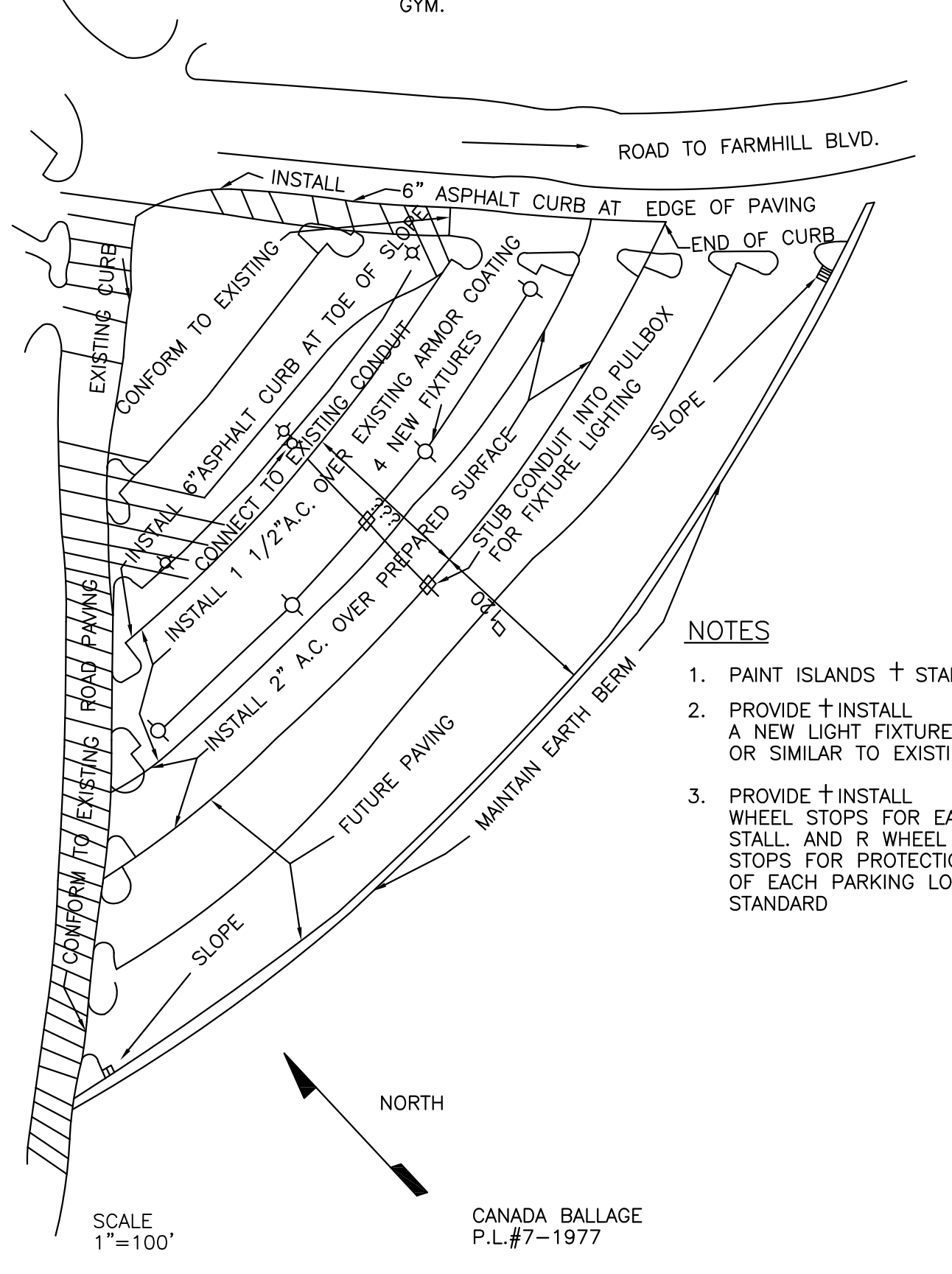
DETAIL "A"
NO SCALE
LOCATION FOR POLES IN PARKING AREAS
POLES ARE TO BE LOCATED BETWEEN WHEEL STOPS OR ON ISLANDS ONLY



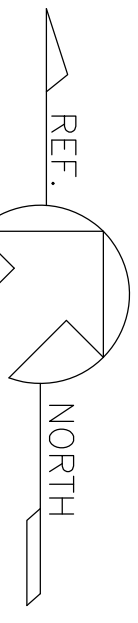
DETAIL "B"
NO SCALE
LIGHTING FIXTURE DATA
POST-TOP UNIT WITH 175 WATT COLOR IMPROVED 277 VOLT MERCURY - VAPOR LAMP, AND 277 VOLT BUILT IN BALLAST FIXTURE AND POLE FINISHED IN DARK BRONZE BAKED ON ACRYLIC ENAMEL.
MANUFACTURER OF FIXTURE AND POLE LINE MATERIAL INDUSTRIES "LAWNAIRE" CATALOG NO. LT. 16411
FOR POLE BASE INSTALLATION DATA, SEE DETAIL "B"

- LEGEND**
- DENOTES THE OUTSIDE LIMITS OF AREA INVOLVED FOR THIS PROJECT
 - LIGHTING FIXTURE CONNECTED TO "OFF-AT-MIDNIGHT" CIRCUIT (FIGURES DENOTE CIRCUIT NUMBER)
 - LIGHTING FIXTURE CONNECTED TO "ALL-NIGHT" CIRCUIT
 - UNDERGROUND LIGHTING CIRCUIT IN 2" PVC, CROSS MARKS INDICATE NUMBER OF CONDUCTORS. (NO. 8 AVG MINIMUM UNLESS NOTED OTHERWISE)
 - ☐ CONCRETE PULLBOX - SIZED AS REQUIRED
 - HOMERUN TO PANEL CLSL - SEE NOTE 2

- NOTES**
1. THE EXACT LOCATION OF ALL FIXTURES SHALL BE AS DIRECTED AND/OR COORDINATED WITH PARKING LOT AND HAVING LAYOUTS (SEE DETAIL "A")
 2. CONNECT THE TWO HOMERUNS TO TWO EXISTING 2" CONDUITS STRUBBED OUT 6" FROM BUILDING "C" APPROXIMATELY WHERE SHOWN ON PLANS. EXTEND CONDUCTORS TO RESPECTIVE CIRCUIT BREAKERS IN EXISTING PANEL "CLSL" AND CONNECT
 3. CAP 2" CONDUIT STUB AT NORTHERNMOST FIXTURE OR FUTURE EXTENSION TO ROADWAY LIGHTING
 4. CAP 2" CONDUIT STUB AT SOUTHWEST CORNER OF PARKING LOT NO. 2 FOR FUTURE EXTENSION TO MAIN ENTRANCE ROADWAY LIGHTING
 5. EXISTING PANEL "CLSL" IS LOCATED ON WEST WALL OF ROOM C248, CENTRAL PLANT, IN BUILDING "C" (VERIFY EXACT LOCATION AT JOB SITE)
 6. TERMINATE CIRCUIT 15-CLSL IN CONCRETE PULLBOX WITH 12" DIGITALS FOR FUTURE EXTENSION TO AUTOMATIC ELECTRICALLY OPERATED TRAFFIC GATE.



- NOTES**
1. PAINT ISLANDS + STALLS
 2. PROVIDE + INSTALL A NEW LIGHT FIXTURE TO MATCH OR SIMILAR TO EXISTING
 3. PROVIDE + INSTALL WHEEL STOPS FOR EACH STALL AND R WHEEL STOPS FOR PROTECTION OF EACH PARKING LOT LIGHT STANDARD



SITE LIGHTING
PARKING LOTS #1, #1-A & #2
SCALE 1"=100' DATE JUNE 11, 68 JOB NO: 5386

JOHN A. BLUME & ASSOC. ENGINEERS
CIVIL STRUCTURAL ENGINEERS
KELLER & GANNON
MECHANICAL & ELECTRICAL ENGINEERS
DOUGLAS BAYLIS
LANDSCAPE ARCHITECT
SAN FRANCISCO, CALIFORNIA

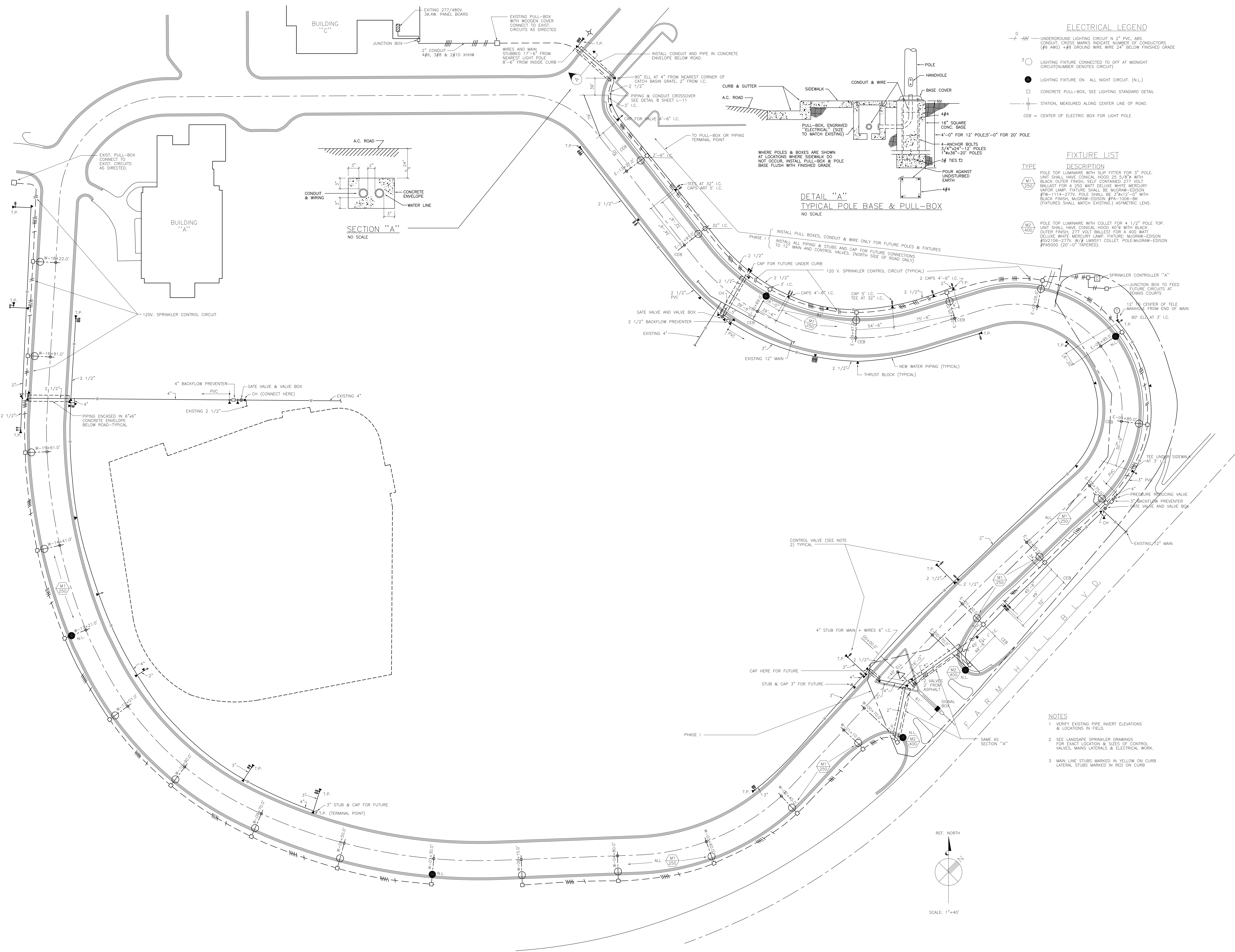
WELTON BECKETT AND ASSOCIATES
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153 MAIDEN LANE, SAN FRANCISCO, CALIFORNIA

SAN MATEO JUNIOR COLLEGE DISTRICT
SOUTH CAMPUS
REDWOOD CITY, CALIFORNIA

MATEO V. FASANO
JULIO L. BORTOLAZZO
SAN MATEO JUNIOR COLLEGE DISTRICT

SU-25

**SAN MATEO JUNIOR COLLEGE DISTRICT
 CANADA COLLEGE ENTRANCE AND LOOP ROAD SITE DEVELOPMENT
 REDWOOD CITY, CALIFORNIA**



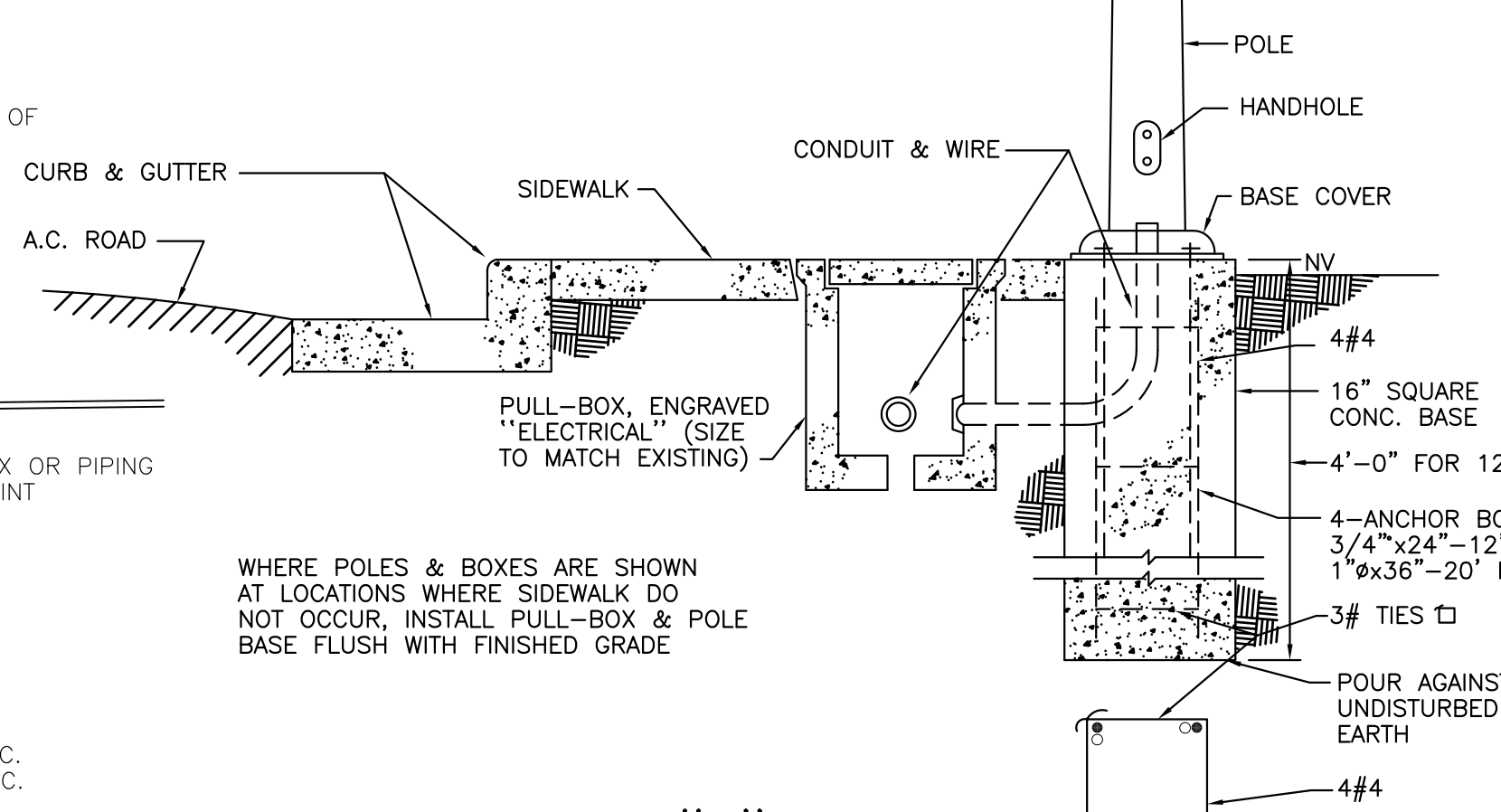
ELECTRICAL LEGEND

- 6-### UNDERGROUND LIGHTING CIRCUIT N 2" PVC, ABS CONDUIT. CROSS MARKS INDICATE NUMBER OF CONDUCTORS (#6 AWG) + #8 GROUND WIRE 24" BELOW FINISHED GRADE
- LIGHTING FIXTURE CONNECTED TO OFF AT MIDNIGHT CIRCUIT (NUMBER DENOTES CIRCUIT)
- LIGHTING FIXTURE ON ALL NIGHT CIRCUIT (N.L.)
- CONCRETE PULL-BOX, SEE LIGHTING STANDARD DETAIL
- +— STATION, MEASURED ALONG CENTER LINE OF ROAD.
- CEB = CENTER OF ELECTRIC BOX FOR LIGHT POLE

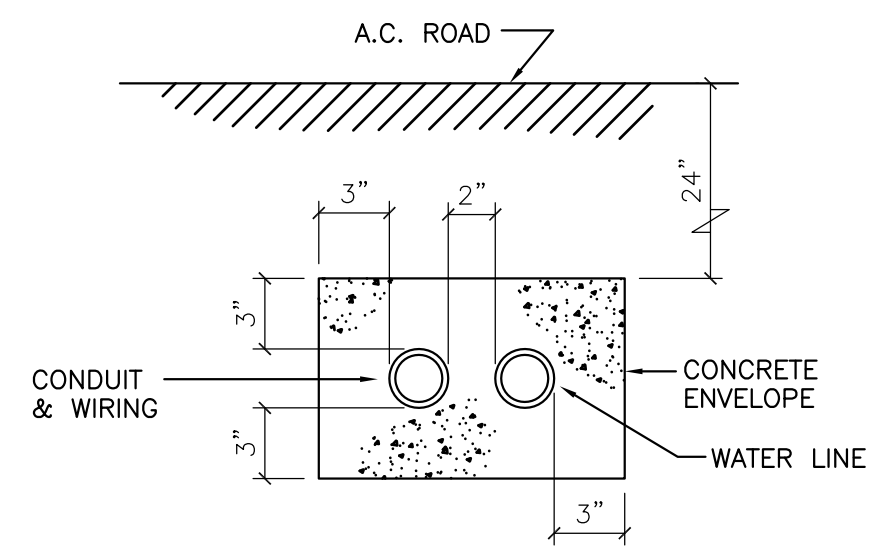
FIXTURE LIST

- | TYPE | DESCRIPTION |
|-----------|---|
| M1
250 | POLE TOP LUMINAIRE WITH SLIP FITTER FOR 3" POLE. UNIT SHALL HAVE CONICAL HOOD 25 5/8" WITH BLACK OUTER FINISH, SELF CONTAINED 277 VOLT BALLAST FOR A 250 WATT DELUXE WHITE MERCURY VAPOR LAMP. FIXTURE SHALL BE MCGRAW-EDISON #79-114-277V. POLE SHALL BE 3"X12'-0" WITH BLACK FINISH, MCGRAW-EDISON #PA-1006-BK (FIXTURES SHALL MATCH EXISTING) ASYMMETRIC LENS. |
| M2
400 | POLE TOP LUMINAIRE WITH COLLET FOR 4 1/2" POLE TOP. UNIT SHALL HAVE CONICAL HOOD 40" WITH BLACK OUTER FINISH, 277 VOLT BALLAST FOR A 400 WATT DELUXE WHITE MERCURY LAMP. FIXTURE: MCGRAW-EDISON #EVT08-277V. W/4 LAMP#1 COLLET. POLE: MCGRAW-EDISON #PAS000 (20'-0" TAPERED). |

**DETAIL "A"
 TYPICAL POLE BASE & PULL-BOX**
 NO SCALE

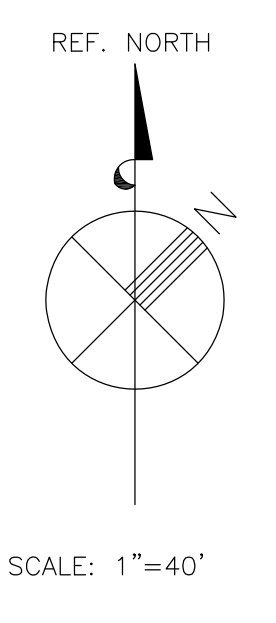


**SECTION "A"
 NO SCALE**

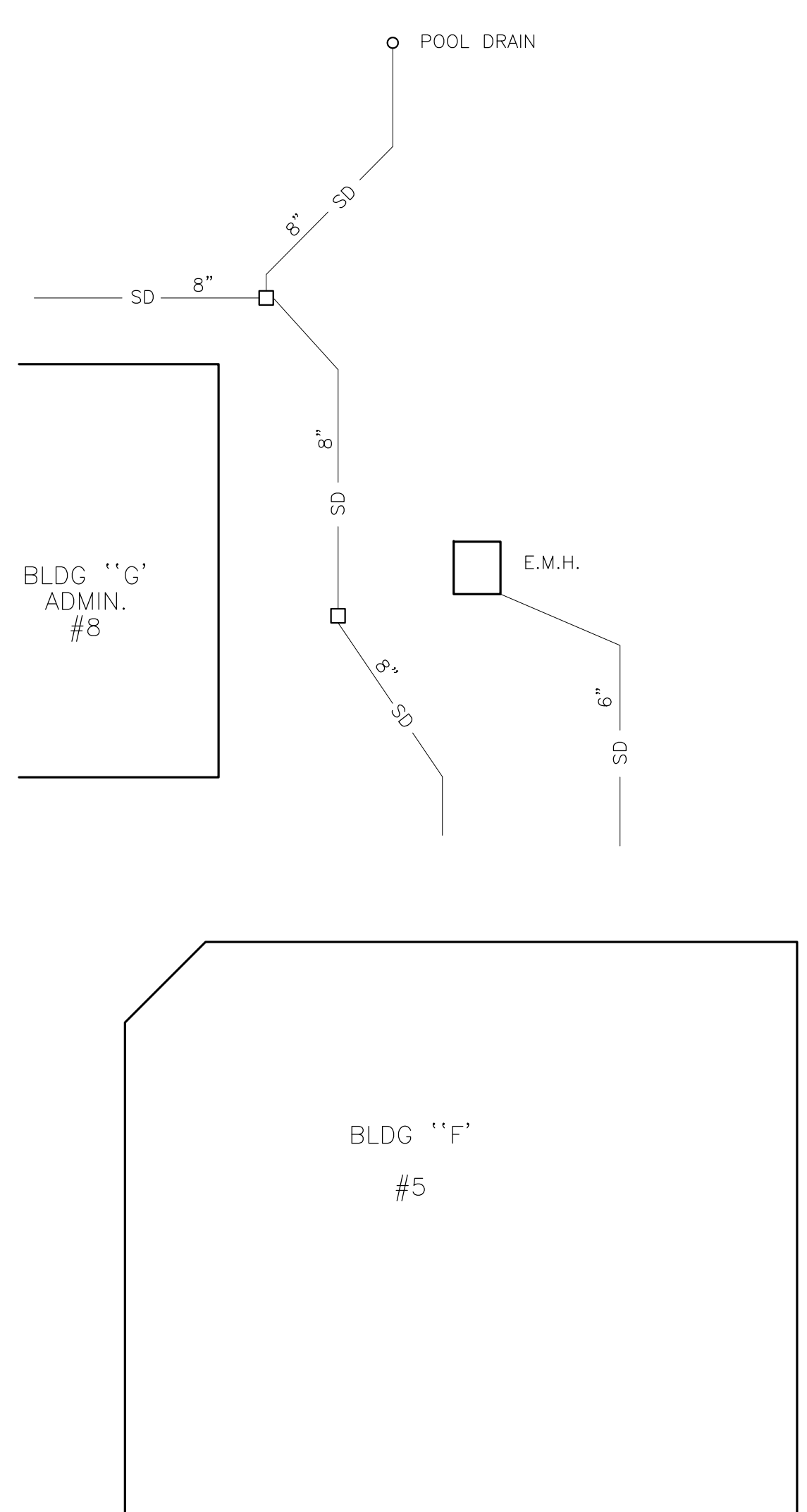
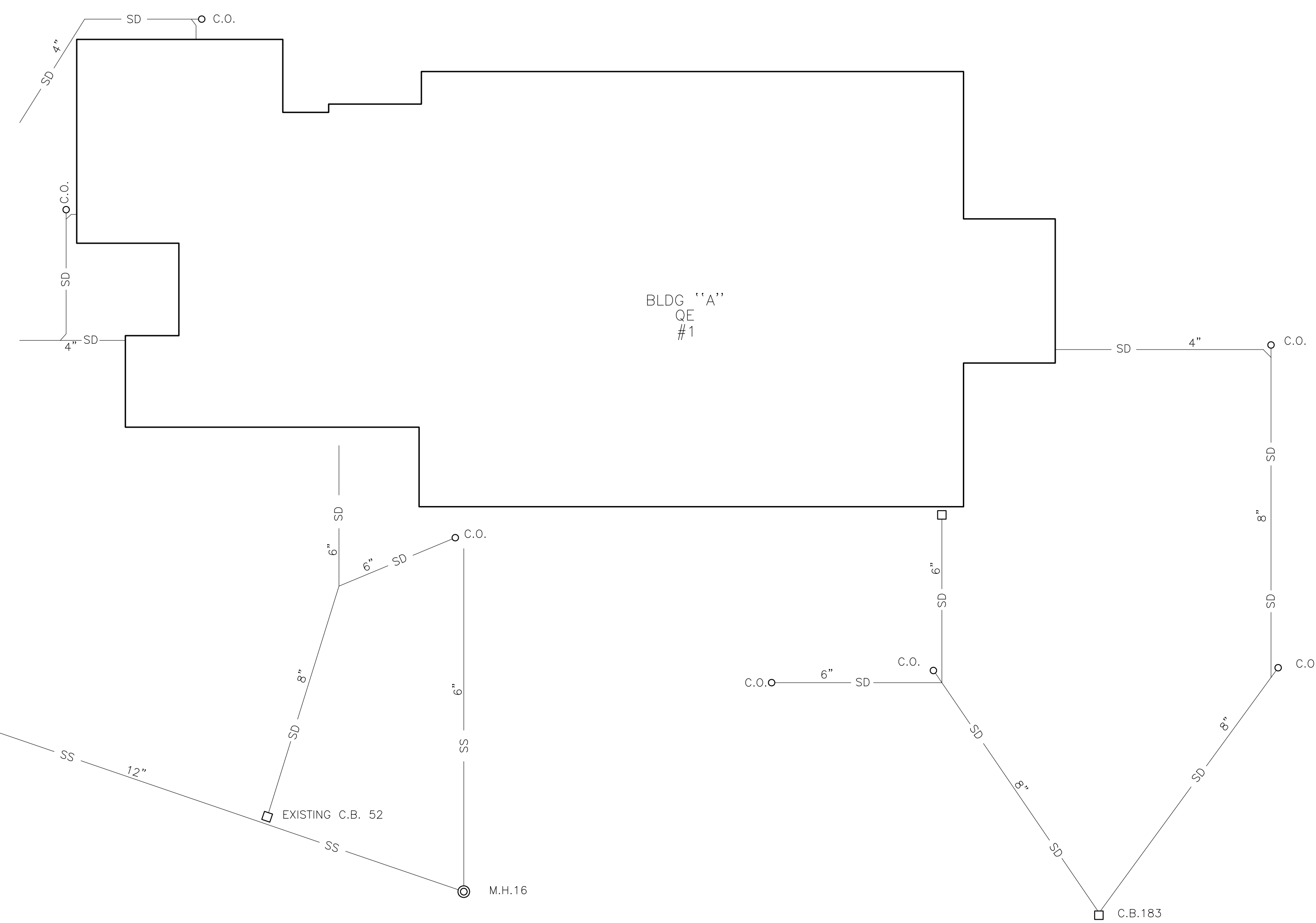
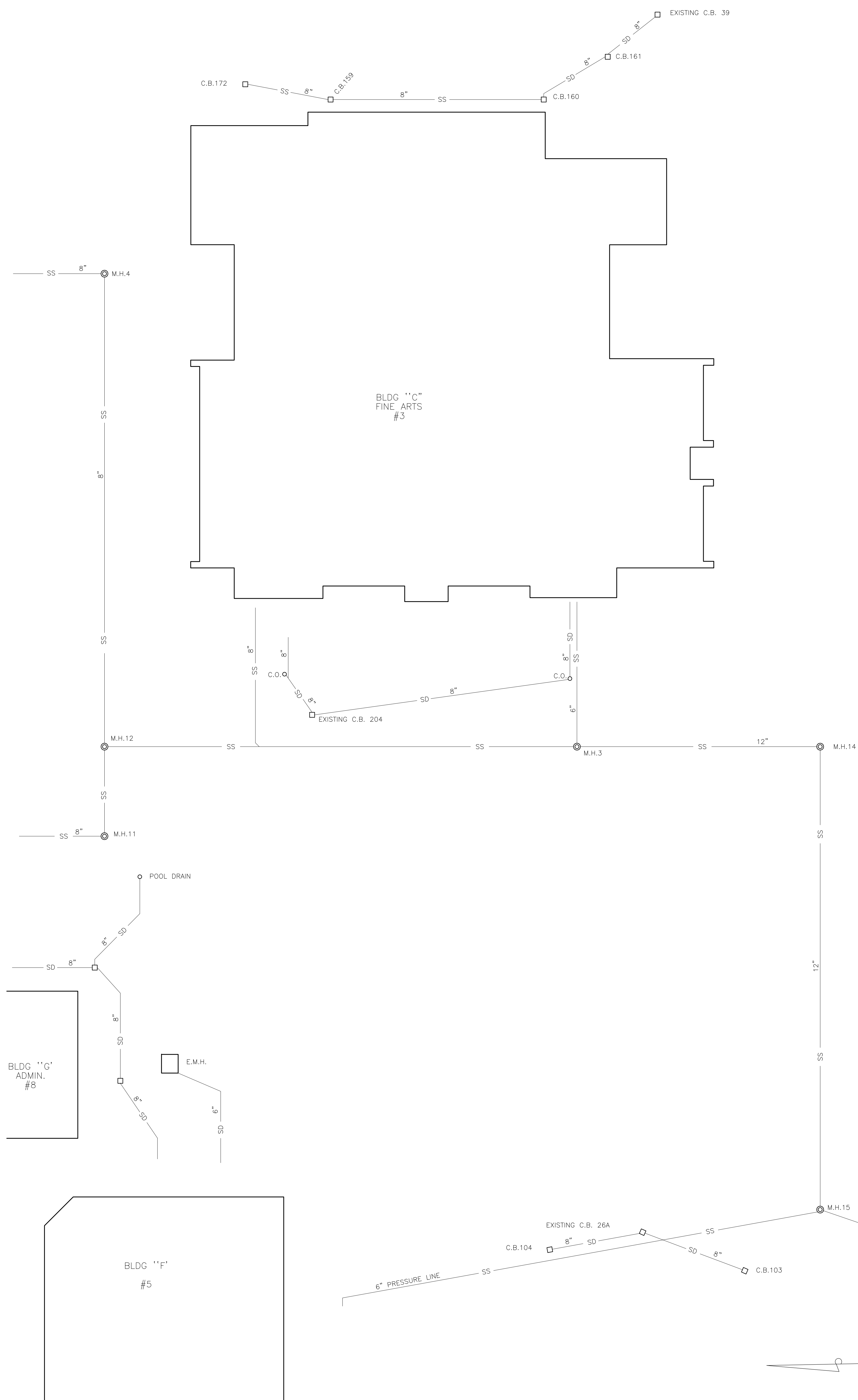


NOTES

1. VERIFY EXISTING PIPE INVERT ELEVATIONS & LOCATIONS IN FIELD.
2. SEE LANDSCAPE SPRINKLER DRAWINGS FOR EXACT LOCATION & SIZES OF CONTROL VALVES, MAINS, LATERALS & ELECTRICAL WORK.
3. MAIN LINE STUBS MARKED IN YELLOW ON CURB LATERAL STUBS MARKED IN RED ON CURB



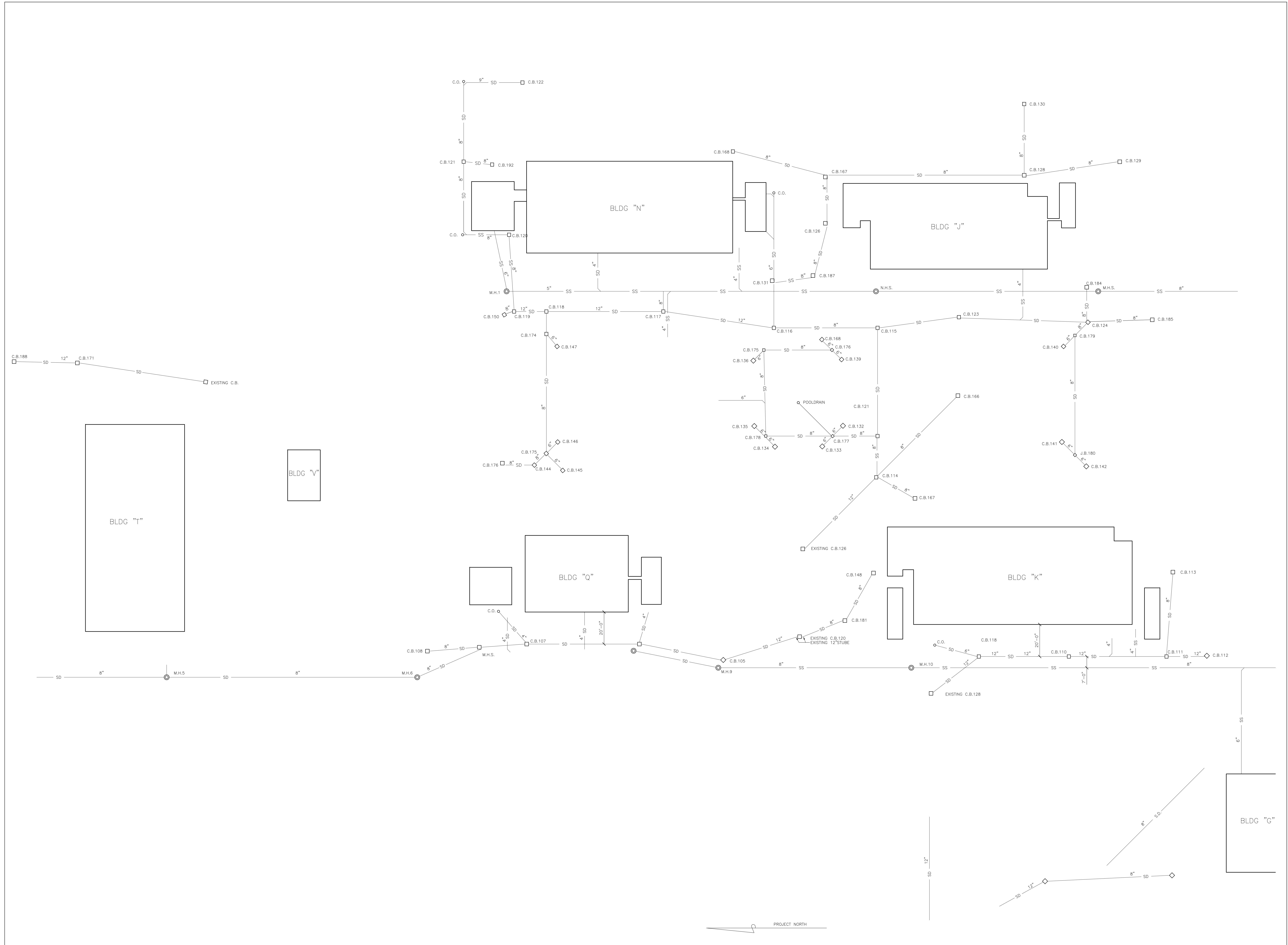
NO.	DATE	REVISION
JOB NO.	133A	
ISSUE DATE	25 MAY 1973	
DRAWN BY	MC/CAM	
CHECKED BY	AJV	
SCALE	AS SHOWN	
SHEET TITLE		
SPRINKLER MAINS AND ROADWAY LIGHTING		
SHEET NO.		
ME-1		
SHEET 6 OF 6		



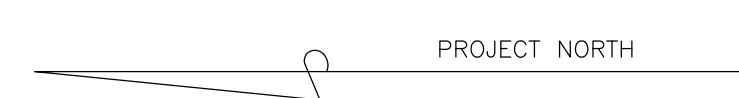
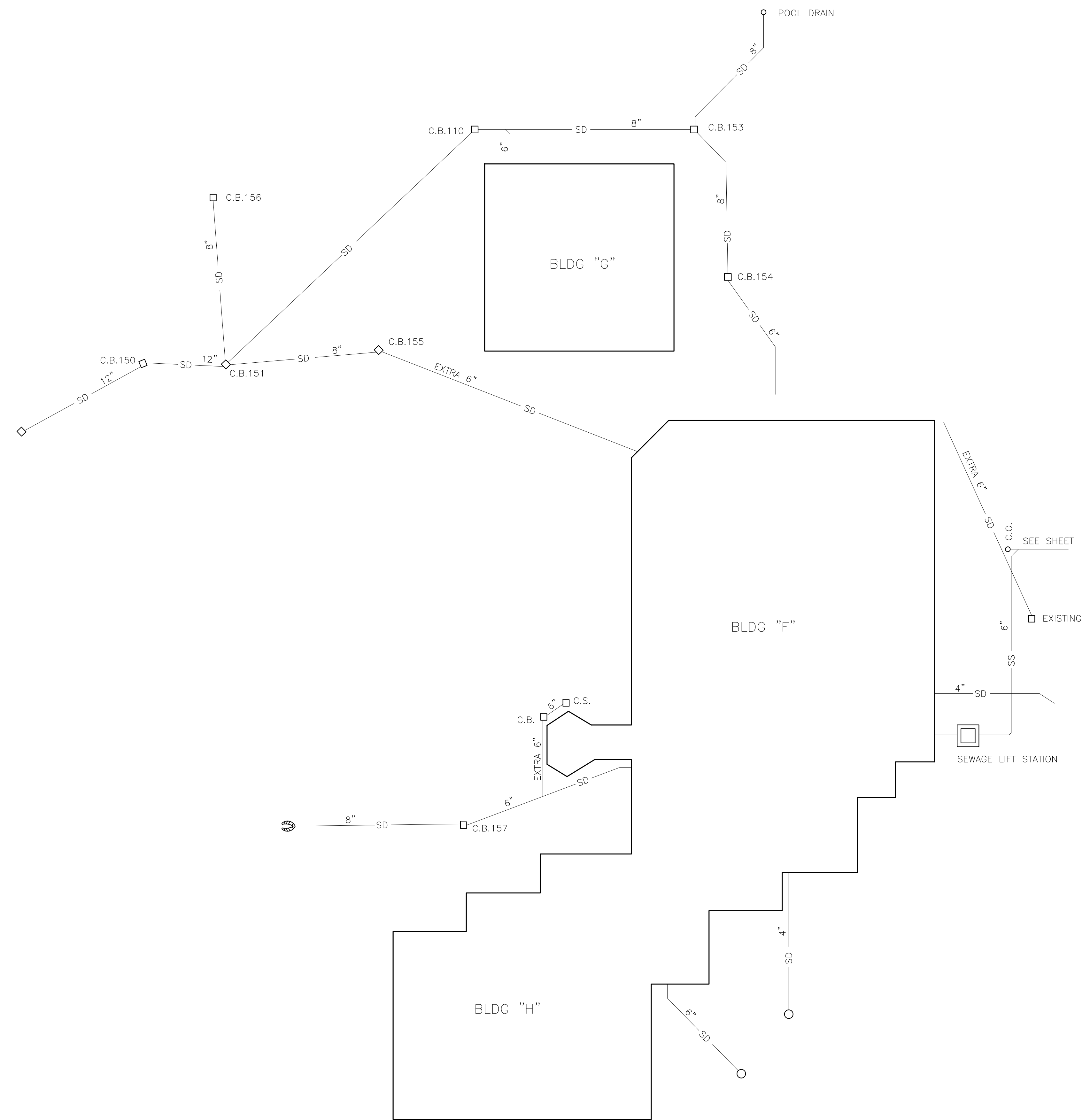
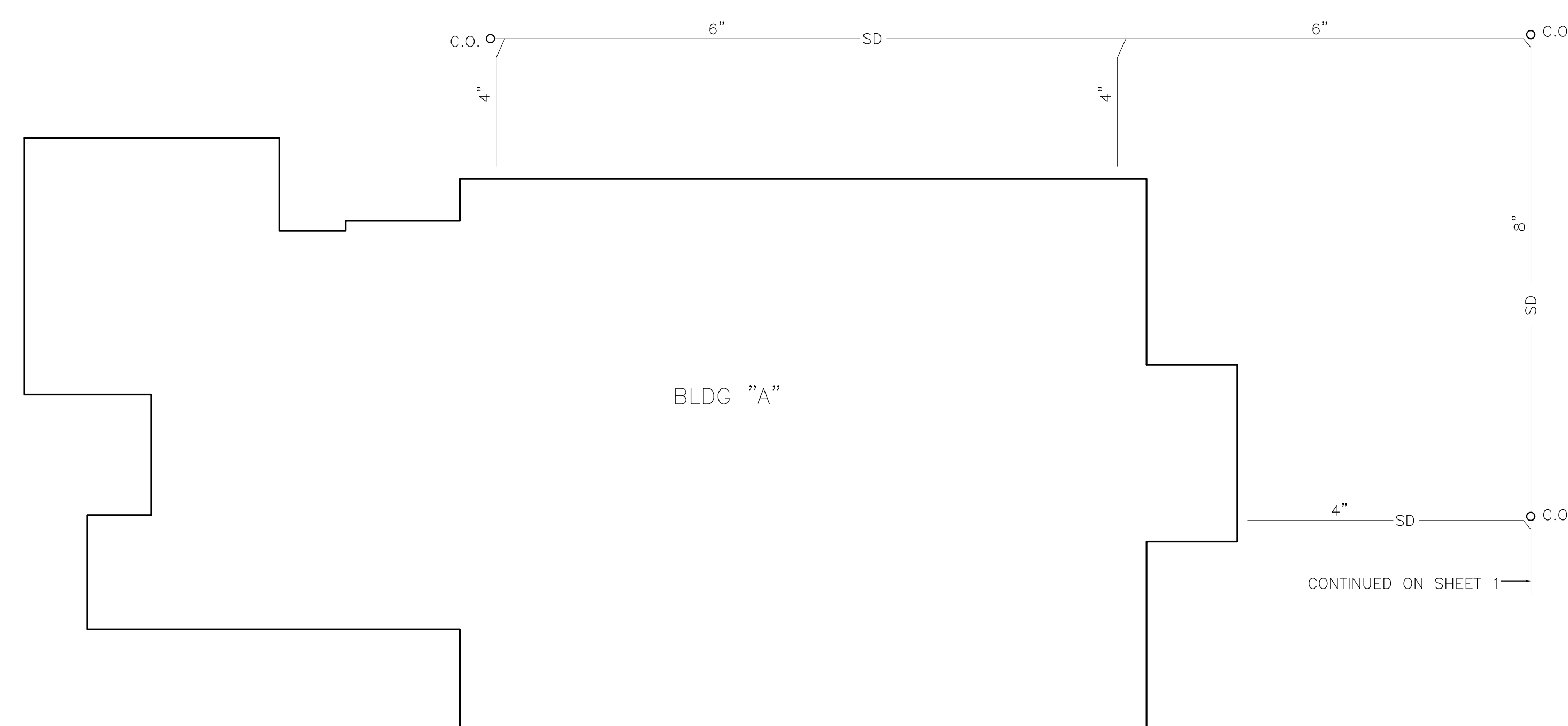
PREPARED FOR O.K. CONSTRUCTION, INC.
FROM THEIR RECORDS

AS CONSTRUCTED
STORM AND SANITARY SEWERS
CANADA COLLEGE
REDWOOD CITY CALIFORNIA

EDWIN H. SMITH CIVIL ENGINEER	
REDWOOD CITY	
SCALE : 1"=20'	SURV -
AUGUST, 1969	PLOT R 13053



AS CONSTRUCTED STORM AND SANITARY SEWERS CANADA COLLEGE REDWOOD CITY CALIFORNIA			
EDWIN H. SMITH CIVIL ENGINEER REDWOOD CITY			
SCALE : 1"=20'	SURV	-	13053
AUGUST, 1969	PLOT	R	



AS CONSTRUCTED STORM AND SANITARY SEWERS CANADA COLLEGE REDWOOD CITY CALIFORNIA			
EDWIN H. SMITH CIVIL ENGINEER REDWOOD CITY			
SCALE : 1"=20'	SURV	-	13053
AUGUST, 1969	PLOT	R	