

May 30, 2017

NOTICE TO PROSPECTIVE BIDDERS  
ADDENDUM NO. 1

**PROJECT ID NO. WMD0000109**

**FRANKLIN D. ROOSEVELT PARK**  
**REGIONAL STORMWATER CAPTURE PROJECT**

The following revisions are hereby made a part of the Contract Documents and supersede or amend the corresponding information included in the original Contract Documents:

**PLANS**

Replace the entire Plan set with the revised Sheets at the end of this Addendum No. 1.

MARK PESTRELLA  
Director of Public Works  
County of Los Angeles

By  \_\_\_\_\_  
Assistant Deputy Director

SJ:

C-1/O:\PROJECTS\WATERSHED MANAGEMENT\WMD0000109 - FRANKLINDROOSEVELTPARK\ADDENDA\ADDENDUM NO. 01.DOC



**GENERAL NOTES**

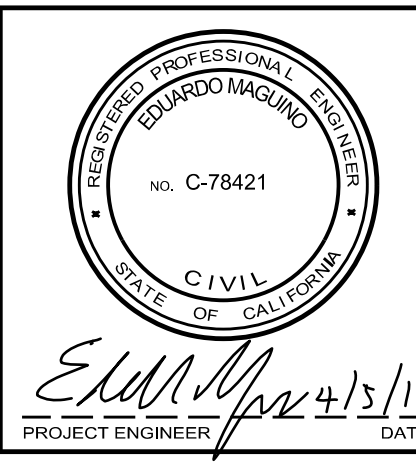
- ELEVATIONS SHOWN ARE IN FEET BASED ON THE HOLLYDALE 2005 ADJUSTMENT, NAVD 88.
- STATIONS SHOWN ON THE PLANS ARE ALONG CENTER LINE OF CONDUIT OR ON A LINE NORMAL TO CENTER LINE OF CONDUIT.
- ALL PIPE IN OPEN TRENCH SHALL BE BEDDED ACCORDING TO LACDPW STANDARD PLAN 3080-3, CASE III, EXCEPT BELL AND SPIGOT PIPE WHICH SHALL BE CASE II BEDDING, UNLESS OTHERWISE SHOWN. "W" VALUES SHALL BE AS SPECIFIED ON STANDARD PLAN 3080-3 FOR CASE III BEDDING, NOTES (A) AND (B). IF THE "W" VALUE AT THE TOP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED, AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED. THE PROPOSED MODIFICATION SHALL BE APPROVED BY THE AGENCY.
- CONCRETE BACKFILL SHALL BE PROVIDED AROUND PIPE 21 INCHES IN DIAMETER OR LESS WHERE THE COVER IS EQUAL TO OR LESS THAN 2'-0", AROUND PIPE GREATER THAN 21 INCHES IN DIAMETER BUT LESS THAN 39 INCHES WHERE THE COVER IS LESS THAN 1'-3", AND FOR PIPE 39 INCHES OR GREATER WHERE THE COVER IS LESS THAN 1'-0". THE CONCRETE BACKFILL SHALL BE AS SPECIFIED ON LACDPW STANDARD PLAN 3080-3, NOTE 4.
- ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE THE PROPERTY OF THE OWNERS LISTED ON SHEET 1, UNLESS OTHERWISE NOTED.
- EXISTING UTILITIES SHALL BE PROTECTED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS TO DETERMINE THE DEPTH AND LOCATION OF EXISTING UTILITIES WHERE SO INDICATED BY THE SYMBOL "T".
- UTILITIES DESIGNATED BY THE SYMBOL "\*" WILL BE ABANDONED IN PLACE AND THE OWNER WILL INSTALL A NEW SECTION OF THE AFFECTED UTILITY AT A LOCATION IN CLOSE PROXIMITY TO, BUT WHICH DOES NOT PHYSICALLY INTERFERE WITH, THE PROPOSED STORM DRAIN CONDUIT AND APPURTENANT STRUCTURES. UTILITIES DESIGNATED BY THE SYMBOL "\*\*" FROM STATION 314+39.08 TO 314+44.08 AND STATION 317+85.11 TO 317+89.95, BACKFILL TRENCH WITH 1-1/2 SACK SAND CEMENT SLURRY TO 12" ABOVE WATER LINE.
- EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND ALL UTILITIES CROSSING THE TRENCH SHALL BE TEMPORARILY SUPPORTED TO SATISFACTION OF THE OWNER.
- WHERE THE UTILITIES ARE INDICATED ON THE PLANS TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH SPPWC STANDARD PLAN 224-2 UNLESS OTHERWISE INDICATED.
- ALL OPENINGS RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES SHALL BE SEALED WITH 8 INCHES OF BRICK AND MORTAR OR 6 INCHES OF CONCRETE, UNLESS OTHERWISE SHOWN.
- ALL RESURFACING, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE CONSTRUCTED AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
- MANHOLES SHALL USE THE SPPWC STANDARD PLAN FOR PUBLIC WORKS CONSTRUCTION 630-4 FOR THE "FRAME AND COVER" AND 635-3 OR 636-2 FOR THE "STANDARD DROP STEP". STORM DRAIN MANHOLE COVERS SHALL BE CAST WITH THE LETTER, "D". THE LETTER SIZE SHALL BE 1-INCH HIGH AND PLACED IN THE CENTER OF THE COVER.
- TEMPORARY SUPPORTS FOR WATER LINES SHALL BE IN ACCORDANCE WITH DEPARTMENT OF WATER AND POWER DRAWING NUMBER A-3615-A OR B-1453-1A, UNLESS OTHERWISE SHOWN.
- OVERHEAD UTILITY LINES ARE NOT SHOWN ON THE PROJECT PLANS WHICH MAY IMPACT THE CONTRACTOR'S OPERATIONS. PROSPECTIVE BIDDERS ARE ADVISED TO VISIT THE PROJECT SITE BEFORE PREPARING A BID.
- STRUCTURAL NOTES WILL BE FOUND ON THE APPLICABLE STRUCTURAL SHEETS.
- EXISTING TREES SHALL BE REMOVED ONLY IF SO DESIGNATED BY SYMBOL (R) OR #. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
- ALL FIELD BOOK REFERENCES ARE TO LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS FIELD BOOKS, UNLESS OTHERWISE NOTED.
- LOCATIONS SHOWN ON THE PLANS FOR EXISTING SANITARY SEWER HOUSE CONNECTIONS ARE APPROXIMATE ONLY.
- SANITARY SEWER AND HOUSE CONNECTION REMODEL AND RECONNECTION SHALL BE IN ACCORDANCE WITH SPPWC STANDARD PLAN NO. 223-2.
- SANITARY SEWERS AND HOUSE CONNECTIONS CROSSING OVER THE STORM DRAIN SHALL BE SUPPORTED IN ACCORDANCE WITH SPPWC STANDARD PLAN NO. 224-2 UNLESS OTHERWISE INDICATED. IN THE CASE OF SANITARY SEWER SUPPORTS PER CASES 1, 2, AND 4, THE SEWER SHALL BE ENCASED. THE ENCASEMENT SHALL BE A MINIMUM OF 6 INCHES WIDER ON EACH SIDE OF THE SEWER (O.D. PLUS 12 INCHES) AND A MINIMUM OF 6 INCHES ABOVE THE TOP OF THE SEWER, THE SUPPORT BEAM OR SUPPORT WALL SHALL BE WIDENED TO THE SIDE OF THE ENCASEMENT AND SHALL BE LENGTHENED TO FULLY SUPPORT THE ENCASEMENT.
- WHEN INDICATED ON THE PLANS, SANITARY SEWERS AND HOUSE CONNECTIONS SHALL BE PROTECTED IN ACCORDANCE WITH SPPWC STANDARD PLAN NO. 225-2.
- MANHOLE COVERS SHALL BE FURNISHED WITH PICK HOLE PLUGS. PICK HOLE PLUG SHALL BE MOLDED, CUT, OR EXTRUDED FROM A HIGH QUALITY RUBBER. IF THE PLUG IS MOLDED, IT SHALL HAVE A MINIMUM TENSILE STRENGTH OF 1500 PSI. IF THE PLUG IS CUT, IT SHALL HAVE A MINIMUM TENSILE STRENGTH OF 800 PSI. IF THE PLUG IS EXTRUDED, IT SHALL HAVE A MINIMUM TENSILE STRENGTH OF 1200 PSI AND SHALL HAVE A HARDNESS BETWEEN 55 AND 65. THE PICK HOLE PLUG SHALL BE APPROPRIATELY SIZED FOR THE SIZE OF THE PICK HOLE.
- THE WORK SHOWN ON THESE PLANS REQUIRES THE PRIME CONTRACTOR TO HAVE A VALID CLASS A LICENSE ISSUED BY THE STATE OF CALIFORNIA.
- REFER TO SHEET 16 FOR OAK TREE LOCATIONS

**INDEX TO STANDARD PLANS**

<u>STD PLAN</u>	<u>SPPWC (2015 EDITION)</u> <u>TITLE</u>
110-2	DRIVEWAY APPROACHES
120-2	CURB AND GUTTER - BARRIER
223-2	HOUSE CONNECTION REMODELING
224-2	SUPPORT FOR CONDUITS ACROSS TRENCHES
225-2	BLANKET PROTECTION FOR PIPES
304-3	GRATING CATCH BASIN - ALLEY (LONGITUDINAL)
320-2	MANHOLE PIPE TO PIPE (MAIN LINE ID = 36" OR LARGER)
321-2	MANHOLE PIPE TO PIPE (ONE OR BOTH MAIN LINE ID'S 33" OR SMALLER)
324-2	MANHOLE SHAFT WITH ECCENTRIC REDUCER
326-2	MANHOLE SHAFT - 36" WITHOUT REDUCER
331-3	JUNCTION STRUCTURE - PIPE TO PIPE INLET ID ≥ 24" OR OD > ½ MAIN LINE ID
340-2	TRANSITION STRUCTURE PIPE TO PIPE
513-3	ELECTRIC PULL BOX
630-4	24" MANHOLE FRAME AND COVER
635-3	STEEL STEP
636-2	POLYPROPYLENE-PLASTIC STEP
<u>STD PLAN</u>	<u>LACDPW</u> <u>TITLE</u>
3080-3	PIPE BEDDING IN TRENCHES
3090-1	CRITERIA FOR THE DESIGN OF SHORING FOR EXCAVATIONS
3091-1	SAMPLE SHEET FOR USE AS A GUIDE IN PREPARING CALCULATIONS FOR SHORING OF EXCAVATIONS
3093-1	UNIFIED SOIL CLASSIFICATION SYSTEM
6002-1	PORTABLE SECURITY FENCE FOR OPEN TRENCHES
<u>DWG. NO.</u>	<u>CITY OF LOS ANGELES</u> <u>DEPARTMENT OF WATER AND POWER</u>
A-3615A	WATER SYSTEM SUPPORT REQUIREMENTS FOR MAIN 16" AND SMALLER
B-1453-1A	WATER SYSTEM SUPPORT REQUIREMENTS FOR MAINS LARGER THAN 16 INCHES
<u>STD PLAN</u>	<u>CALTRANS STANDARD PLANS (2015)</u>
A88A	CURB RAMP DETAILS (RSP 7/21/2017)
<u>STD PLAN</u>	<u>SANITATION DISTRICTS OF LOS ANGELES COUNTY (2015)</u>
S-a-217	STANDARD CONCRETE PIPE SUPPORT

DATE \_\_\_\_\_  
 REVIEWED BY \_\_\_\_\_  
 CAD PROJECT FILE NAME \_\_\_\_\_  
 CHECKER M. TERRELL  
 DESIGNER E. MAGUINO  
 DRAFTER E. MAGUINO

DATE	MK	DESCRIPTION

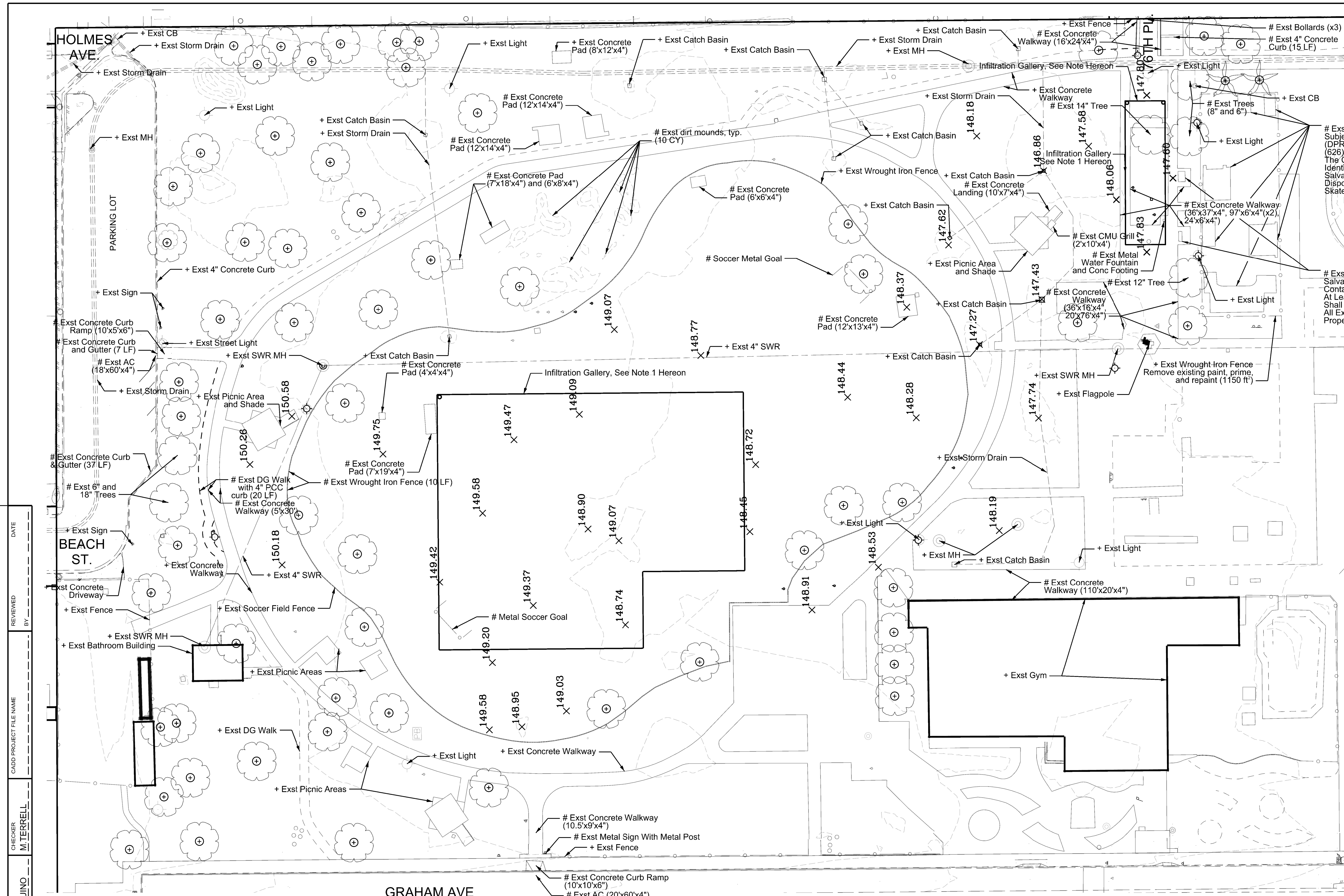


COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**

GENERAL NOTES AND INDEX TO STANDARD PLANS

PROJECT ENGINEER: *Eduardo Maguino* DATE: *Apr 23/19*  
 PIN WMD0000109 PCA F21812I49 DWG SHEET 2 OF 63

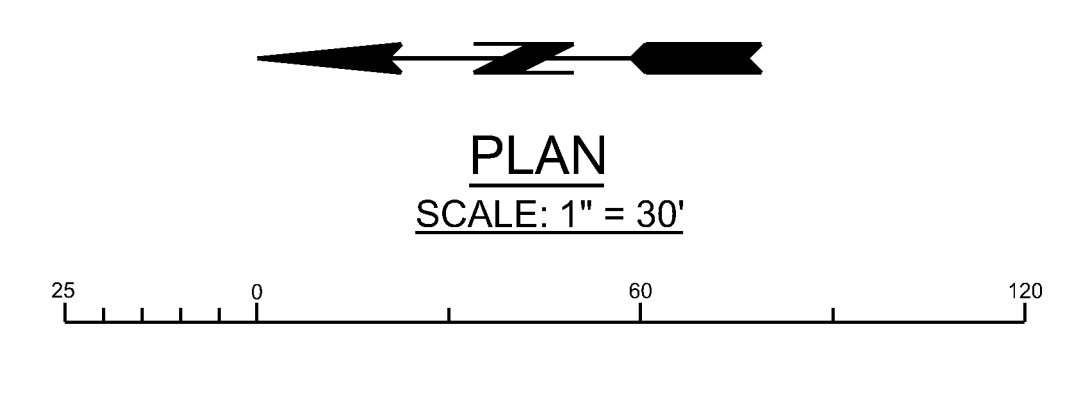


# Exst Skate Park Equipment. The Existing Equipment Is Subject to Salvage By The Department of Parks and Recreation (DPR). Contact Jose A. Caprile, Park Project Coordinator At: (626) 588-5315 At Least (2) Weeks Prior To Removing Equipment. The Contractor Shall Remove and Salvage On-Site All Equipment Identified By DPR. All Existing Equipment Not Identified For Salvage Shall Become Property of the Contractor and Shall be Disposed Off-Site. See Sheet 22 for Existing Skate Park Equipment.

# Exst Metal Benches. The Existing Metal Benches Is Subject to Salvage By The Department of Parks and Recreation (DPR). Contact Jose A. Caprile, Park Project Coordinator At: (626) 588-5315 At Least (2) Weeks Prior To Removing Equipment. The Contractor Shall Remove and Salvage Existing Metal Benches Identified By DPR. All Existing Equipment Not Identified For Salvage Shall Become Property of the Contractor and Shall be Disposed Off-Site.

BUILDING DRAINAGE PLAN  
**APPROVED**  
 MORISAKI  
 PUBLIC WORKS  
 03/21/2018 1:35:11 PM  
 BUILDING AND SAFETY DIVISION  
 LA COUNTY DEPARTMENT OF PUBLIC WORKS

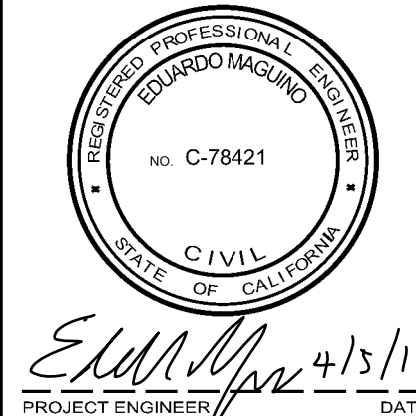
DATE: \_\_\_\_\_  
 REVIEWED BY: \_\_\_\_\_  
 CHECKER: M. TERRELL  
 DESIGNER: E. MAGUINO  
 DRAFTER: E. MAGUINO



- Notes: 1. Contractor shall backfill to match existing elevations.  
 2. All existing drainage devices and drainage courses will remain. Proposed development will maintain existing drainage courses and drainage devices.  
 3. Elevations shown to be verified at final grade.  
 4. Provisions shall be made for contributory drainage at all times.  
 5. Owner will maintain drainage devices and keep free of debris.

DEMOLITION LEGEND	DESCRIPTION OF WORK
#	Remove existing
+	Protect in place existing utilities and structures
⊕	Protect in place existing trees, See Tree Protection Detail on Sh 17

DATE	MK	DESCRIPTION

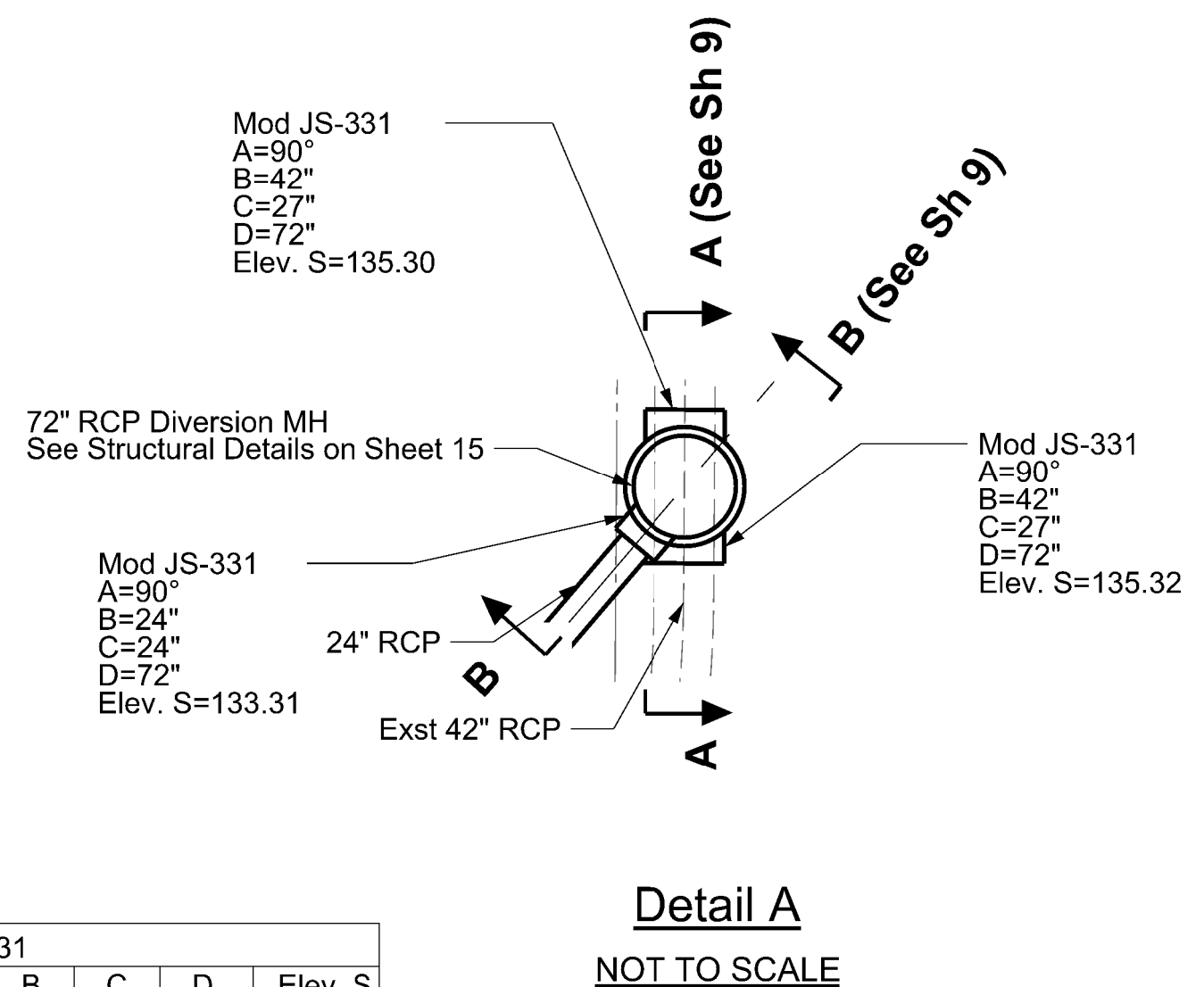
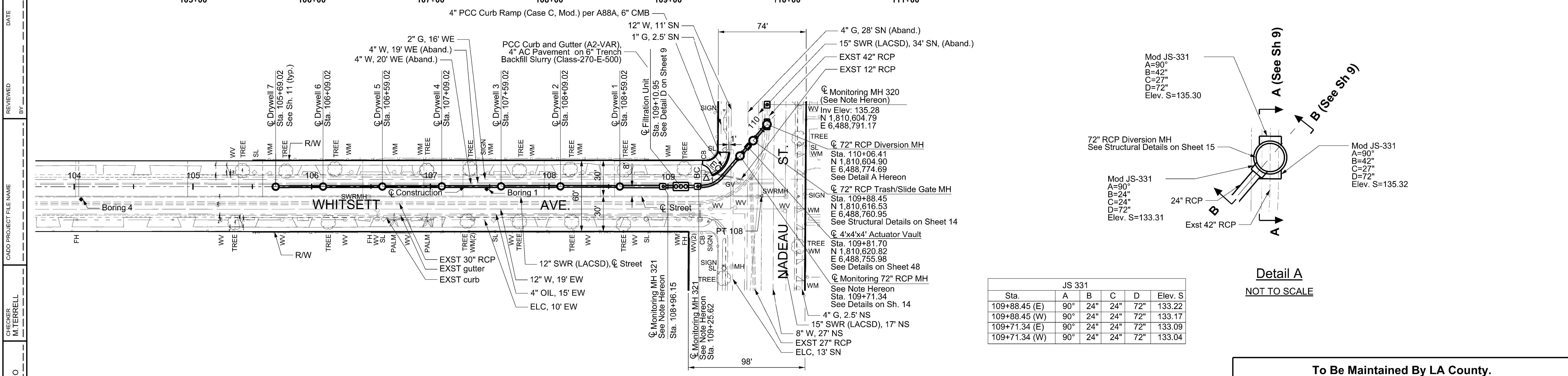
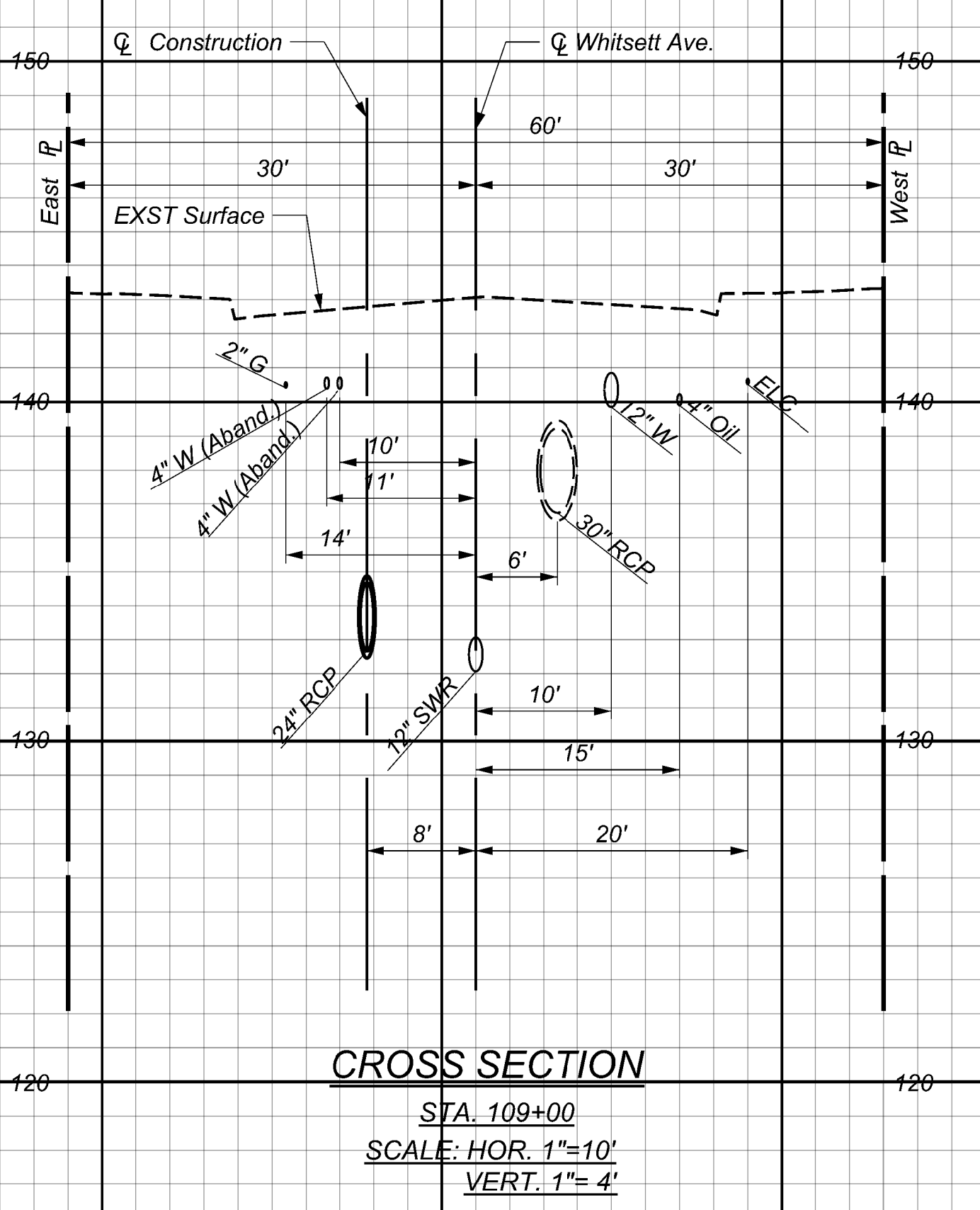
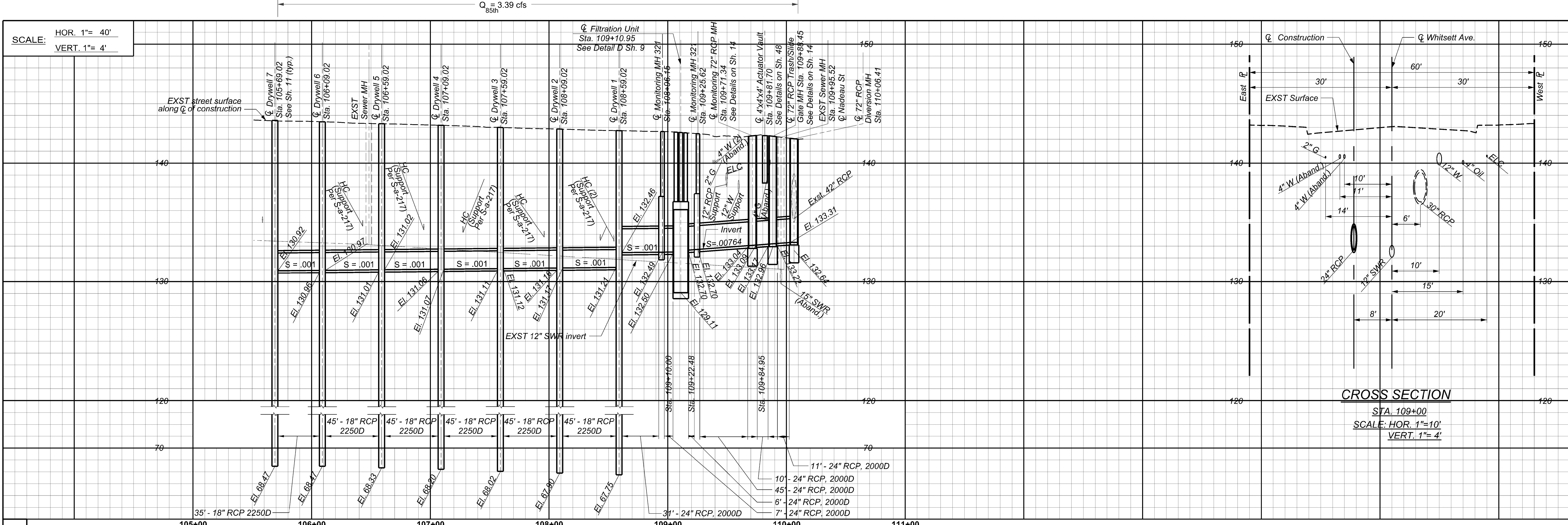


COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK**  
**REGIONAL STORMWATER CAPTURE PROJECT**  
 SITE AND DEMOLITION PLAN

PROJECT ENGINEER: E. Maguino 4/5/18  
 DATE: 4/5/18

PIN WMD0000109 PCA F2181249 DWG SHEET 3 OF 63

SCALE: HOR. 1" = 40'  
VERT. 1" = 4'



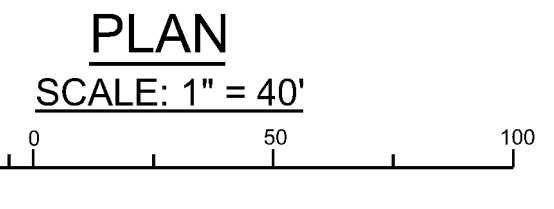
JS 331					
Sta.	A	B	C	D	Elev. S
109+88.45 (E)	90°	24"	24"	72"	133.22
109+88.45 (W)	90°	24"	24"	72"	133.17
109+71.34 (E)	90°	24"	24"	72"	133.09
109+71.34 (W)	90°	24"	24"	72"	133.04

Notes: 1. For Monitoring Conduits and Cabinet Details, See Sheet 41  
2. All Manholes Shall Have a Pick Hole Plug Per Note 23, Sheet 2

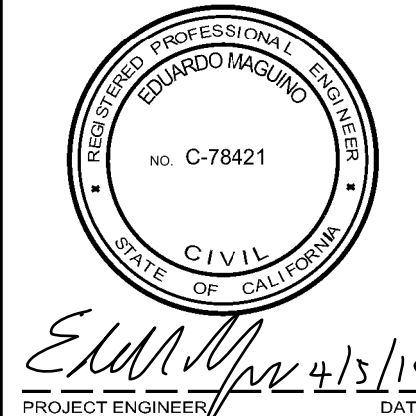
@ Construction Curve Data  
 $\Delta_1 = 49^\circ 35' 06''$   
 R = 22.50'  
 T = 10.39'  
 L = 19.47'  
 BC = Sta. 109+28.57  
 EC = Sta. 109+48.05  
 PI = N 6,488,722.31  
 E 1,810,649.45

Bench Mark: Elev. 142.53'  
 PT 108  
 BT SPK & DPW/W  
 FLUSH @ @ INT  
 NADEAU ST. & WHITSETT AV.  
 N 1810609.3044  
 E 6488714.3341 PWFB1021-5736

DATE \_\_\_\_\_ REVIEWED BY \_\_\_\_\_  
 CAD PROJECT FILE NAME \_\_\_\_\_  
 CHECKER M. TERRELL  
 DESIGNER E. MAGUINO  
 DRAFTER E. MAGUINO



DATE	MK	DESCRIPTION



To Be Maintained By LA County.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**

WHITSETT AVENUE  
PLAN AND PROFILE

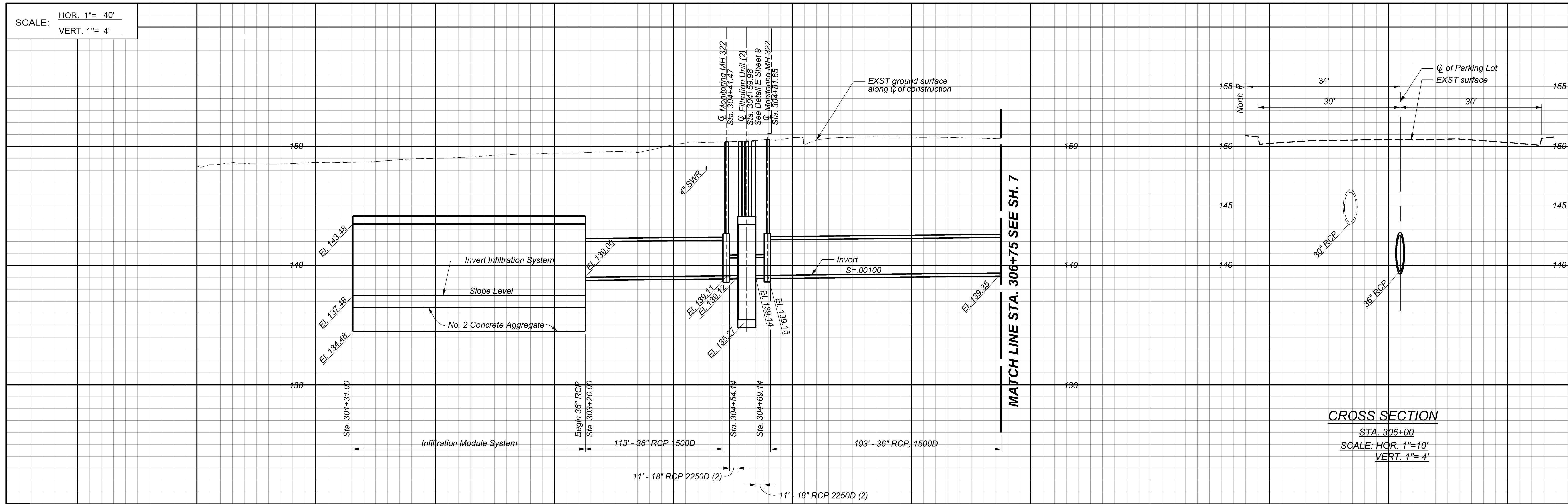
PIN WMD0000109 PCA F2181249 DWG SHEET 4 OF 63

ADDENDUM NO. 1

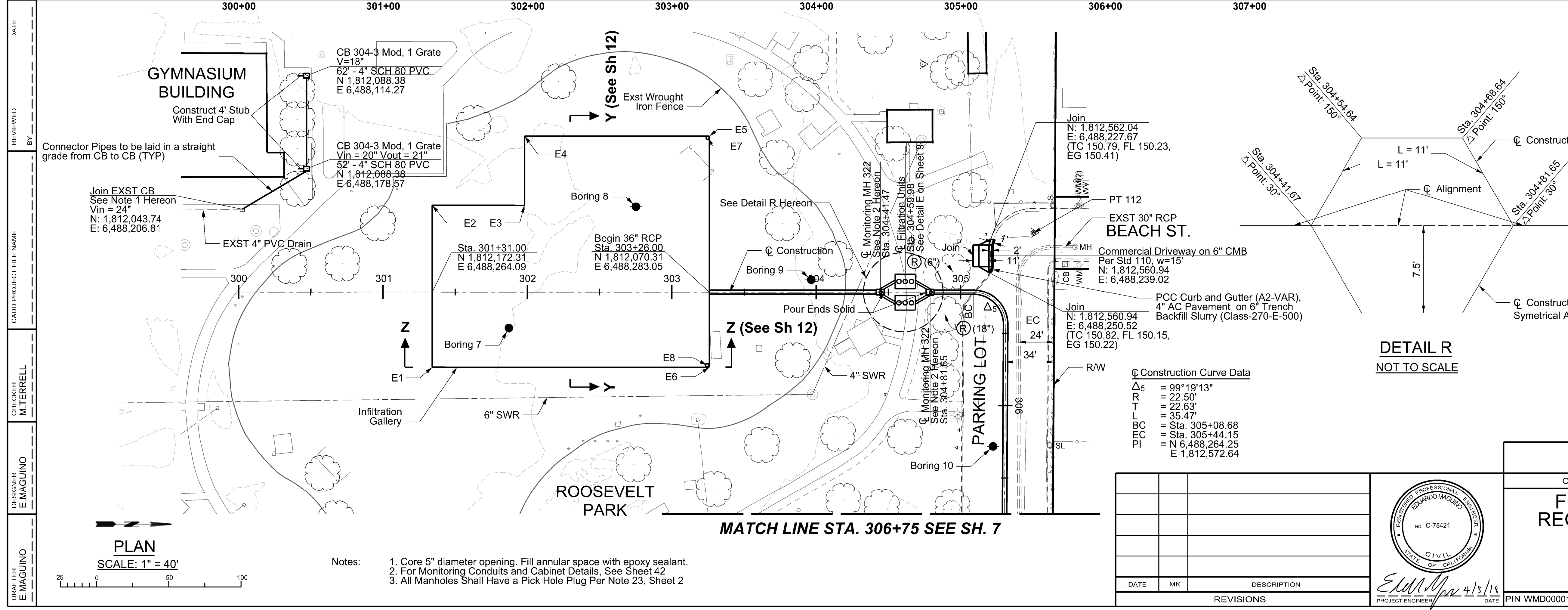


Q<sub>85th</sub> = 12.92 cfs

SCALE: HOR. 1" = 40'  
VERT. 1" = 4'



**CROSS SECTION**  
STA. 306+00  
SCALE: HOR. 1" = 10'  
VERT. 1" = 4'



**PLAN**  
SCALE: 1" = 40'

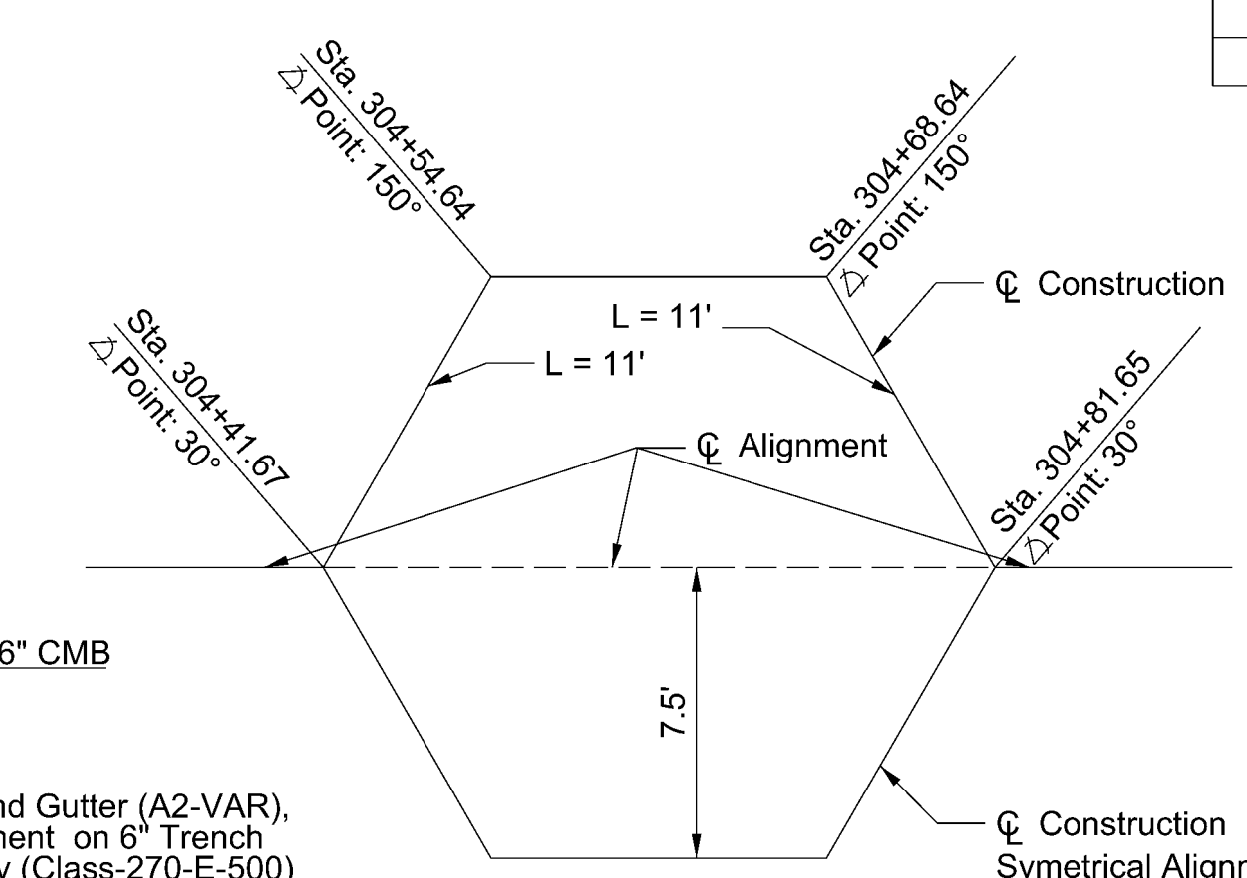
- Notes:
1. Core 5" diameter opening. Fill annular space with epoxy sealant.
  2. For Monitoring Conduits and Cabinet Details, See Sheet 42
  3. All Manholes Shall Have a Pick Hole Plug Per Note 23, Sheet 2

MH 322					
Sta. Point	A	B	C	D	Elev. S
304+81.65	30"	18"	4"	36"	139.15
304+41.67	30"	18"	4"	36"	139.11

Point	Northing	Easting
E1	1,812,175.36	6,488,316.02
E2	1,812,175.36	6,488,204.10
E3	1,812,239.36	6,488,204.12
E4	1,812,239.38	6,488,156.12
E5	1,812,367.38	6,488,156.17
E6	1,812,367.31	6,488,316.17

MH 326		
Point	Northing	Easting
E7	1,812,366.17	6,488,157.35
E8	1,812,365.72	6,488,314.71

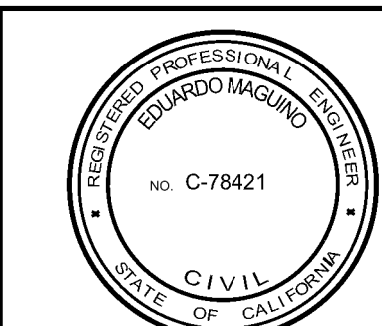
Bench Mark: Elev. 150.555'  
PT 112  
FD SPK & WR 1  
DN 2"  
N 1812591.7480  
E 6488223.0883 PWFB1021-5741



**DETAIL R**  
NOT TO SCALE

Construction Curve Data  
 $\Delta_5 = 99^{\circ}19'13''$   
 $R = 22.50'$   
 $T = 22.63'$   
 $L = 35.47'$   
 $PI = Sta. 305+08.68$   
 $PCC = Sta. 305+44.15$   
 $EC = N 6,488,264.25$   
 $SL = E 1,812,372.64$

DATE	MK	DESCRIPTION



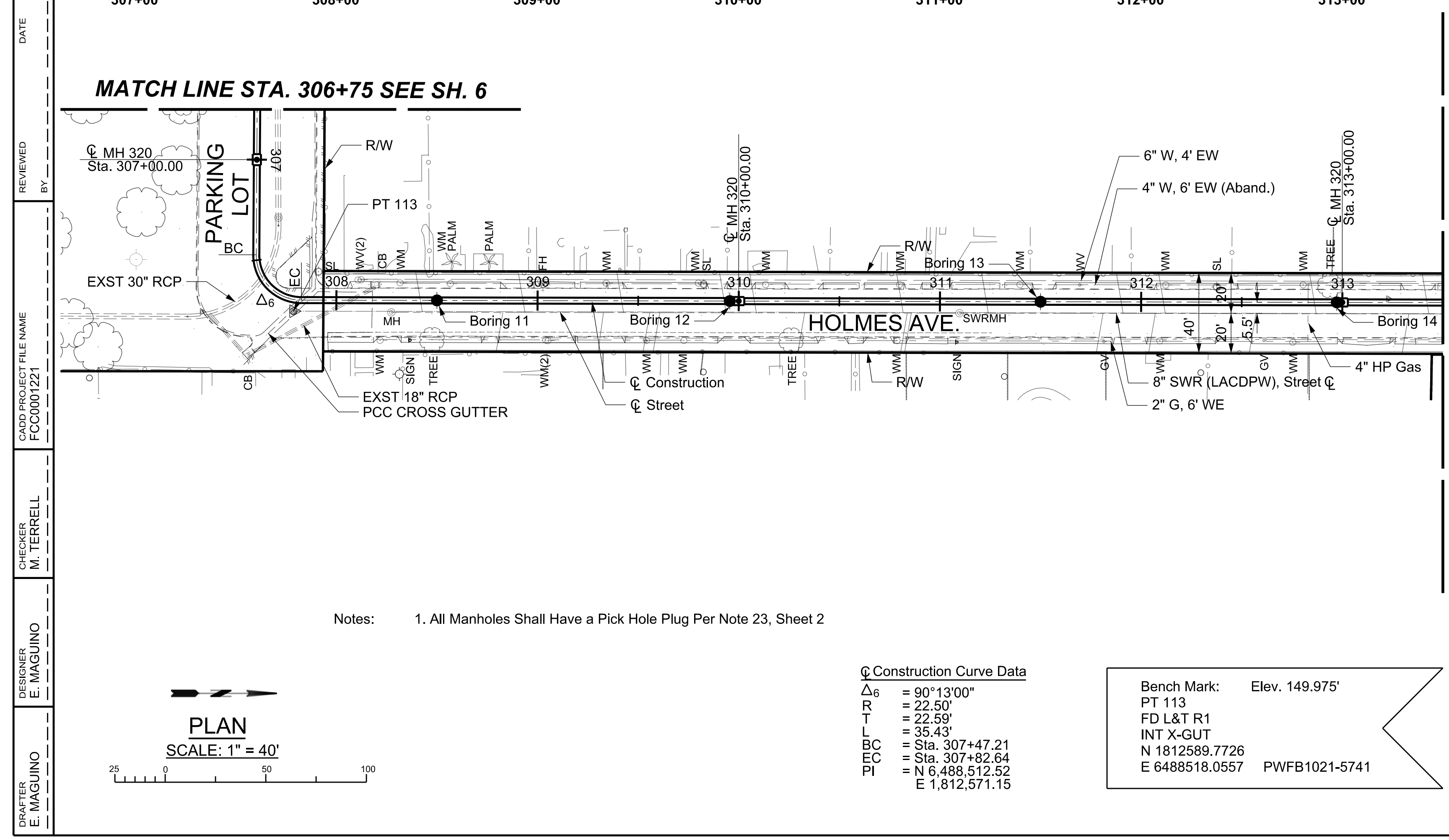
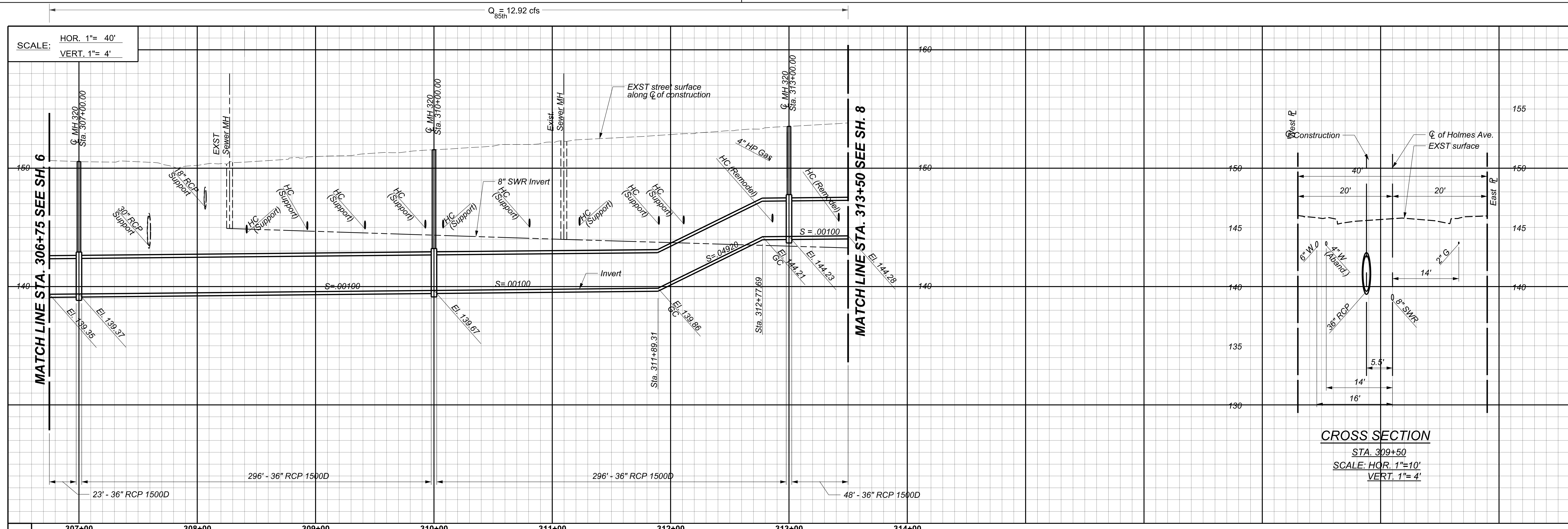
PROJECT ENGINEER  
DATE 4/2/14

**To Be Maintained By LA County.**

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**  
HOLMES AVE.  
PLAN AND PROFILE  
STA. 300+00 TO STA. 306+75

DATE: 4/2/14  
PROJECT ENGINEER: E. Maguino  
DWG: WMD0000109  
PCA: F2181249  
SHEET 6 OF 63



DATE \_\_\_\_\_

REVIEWED BY \_\_\_\_\_

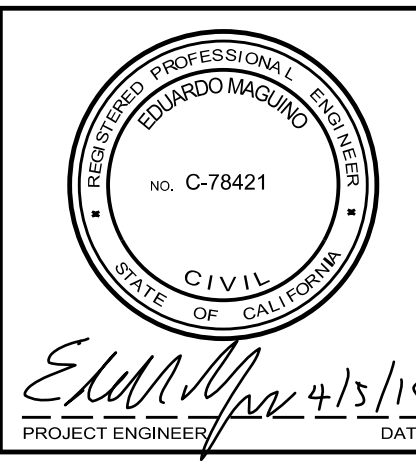
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CHECKER M. TERRELL

DESIGNER E. MAGUINO

DRAFTER E. MAGUINO

DATE	MK	DESCRIPTION



To Be Maintained By LA County.

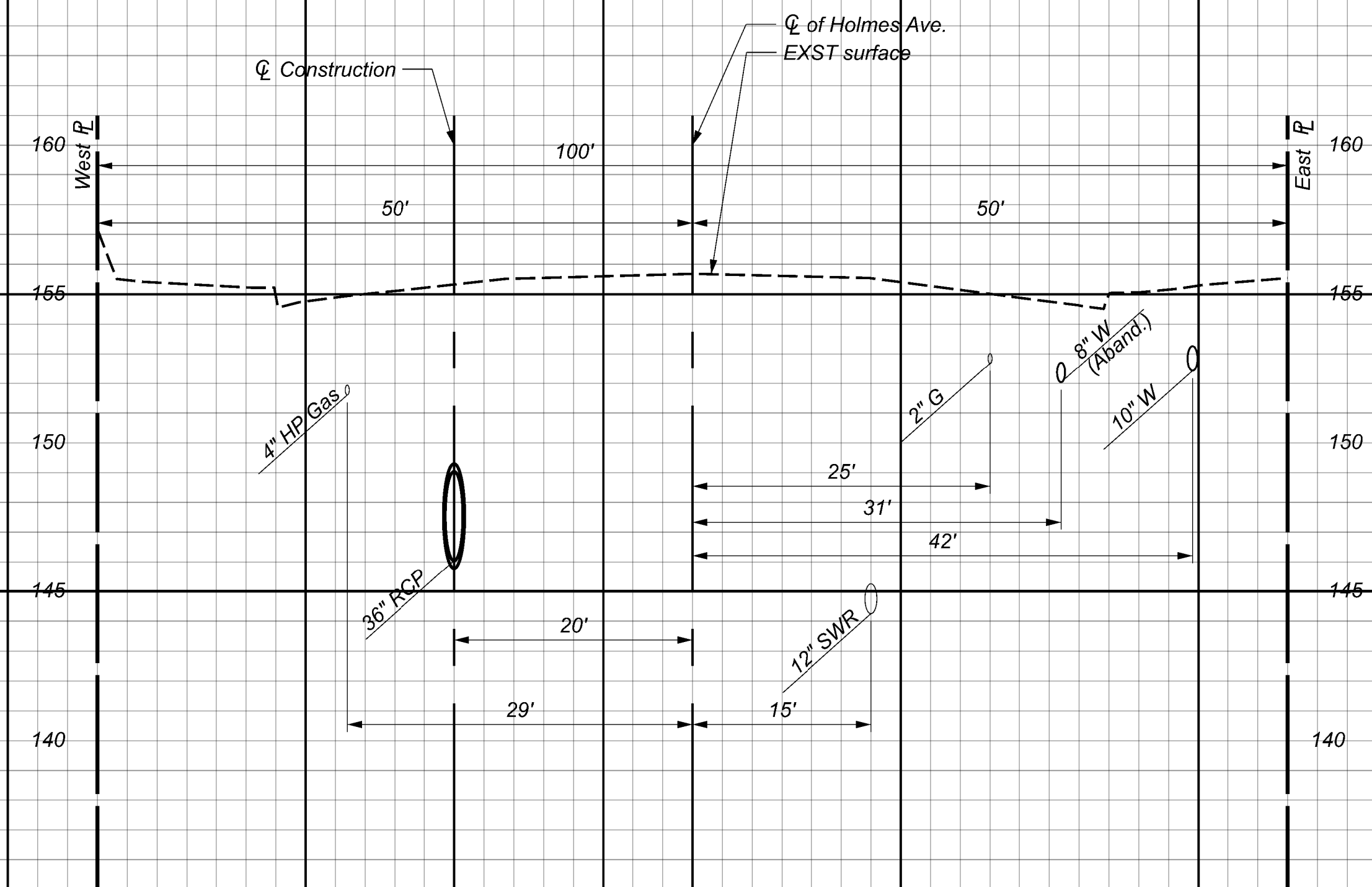
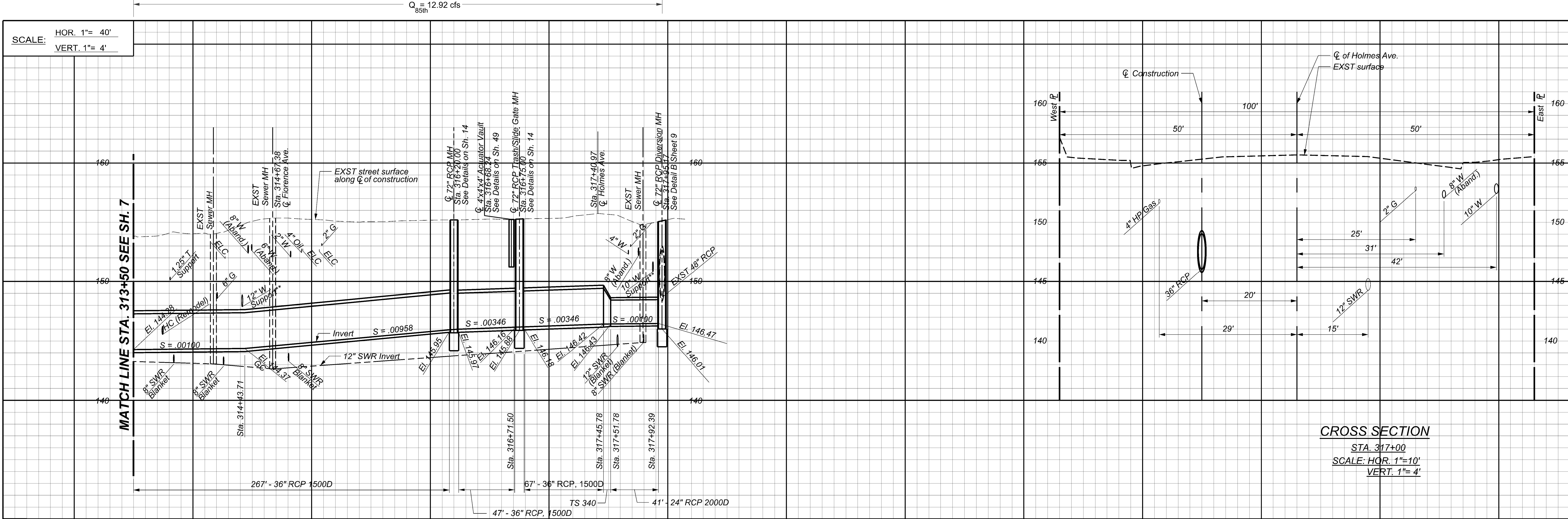
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**  
HOLMES AVENUE  
PLAN AND PROFILE  
STA. 306+75 TO STA. 313+50

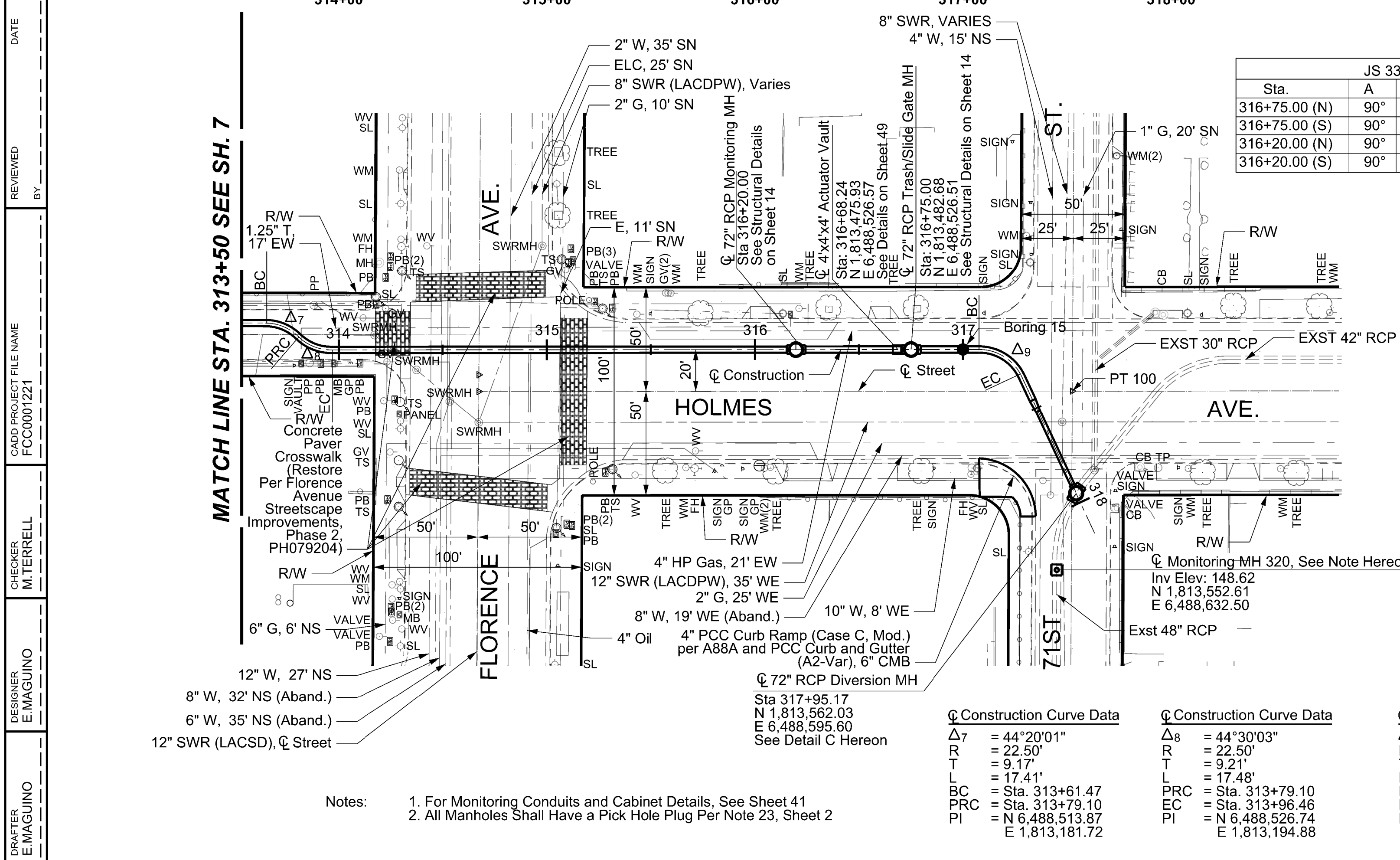
PIN WMD0000109 PCA F2181249 DWG SHEET 7 OF 63



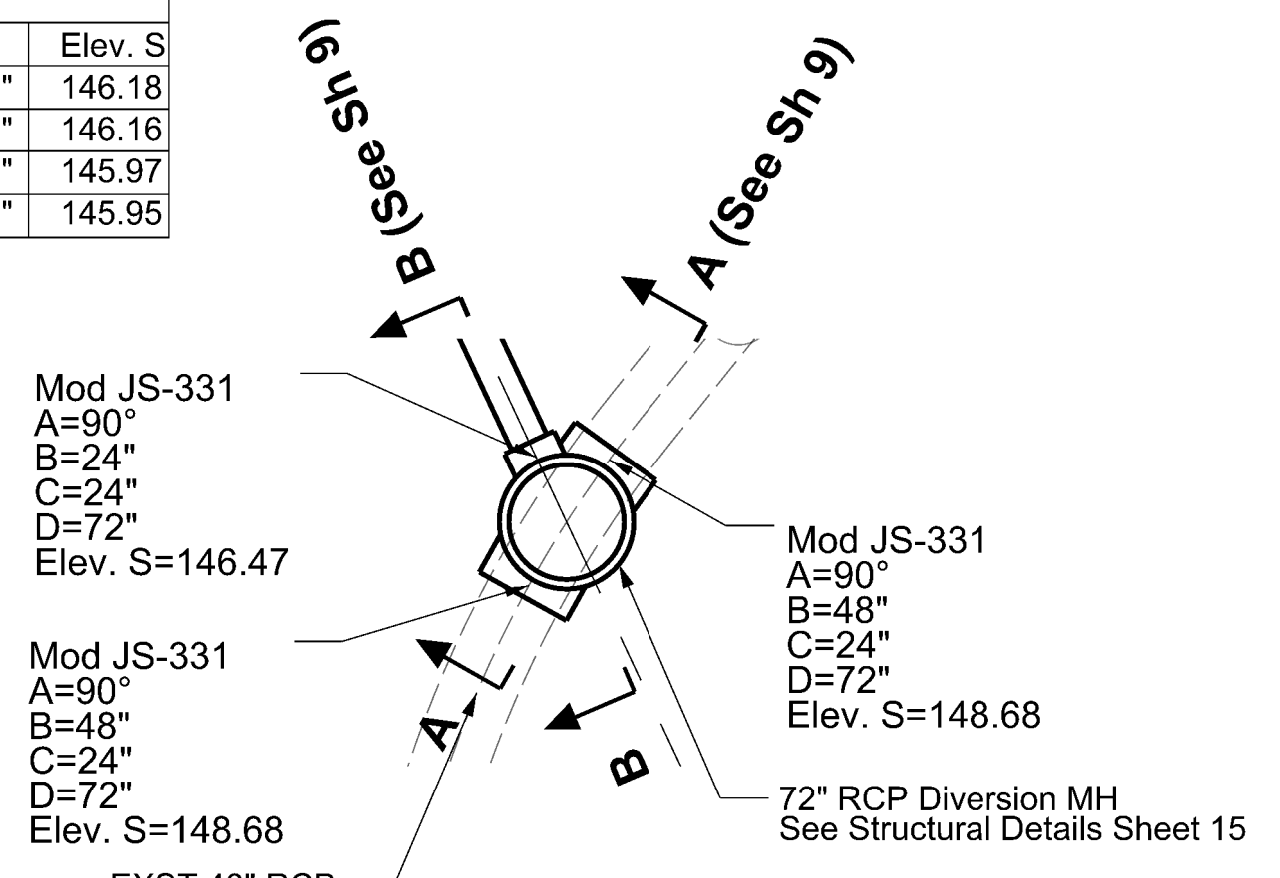
SCALE: HOR. 1" = 40'  
VERT. 1" = 4'



**CROSS SECTION**  
STA. 317+00  
SCALE: HOR. 1" = 10'  
VERT. 1" = 4'



Sta.	A	B	C	D	Elev. S
316+75.00 (N)	90°	36"	24"	72"	146.18
316+75.00 (S)	90°	36"	24"	72"	146.16
316+20.00 (N)	90°	36"	24"	72"	145.97
316+20.00 (S)	90°	36"	24"	72"	145.95



**Detail C**  
NOT TO SCALE

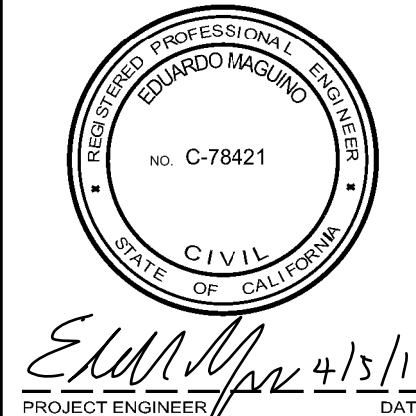
Bench Mark: Elev. 155.545'  
PT 100  
INT L&B  
R1 DN 3"  
N 1813560.0849  
E 6488546.4830 PWF1021-5744

**PLAN**  
SCALE: 1" = 40'

Notes:  
1. For Monitoring Conduits and Cabinet Details. See Sheet 41  
2. All Manholes Shall Have a Pick Hole Plug Per Note 23, Sheet 2

Station	Angle	Radius	Start	End	Elevation
317+95.17	44°20'01"	22.50'	Sta. 313+61.47	Sta. 313+79.10	N 1,813,562.03
317+95.60	44°30'03"	22.50'	Sta. 313+79.10	Sta. 313+96.46	E 6,488,595.60
317+95.17	65°00'00"	22.50'	Sta. 313+79.10	Sta. 317+07.71	N 1,813,562.03
317+95.60	65°00'00"	22.50'	Sta. 313+96.46	Sta. 317+33.24	E 6,488,526.74
317+95.17	44°20'01"	22.50'	Sta. 313+61.47	Sta. 313+79.10	N 1,813,562.03
317+95.60	44°30'03"	22.50'	Sta. 313+79.10	Sta. 313+96.46	E 6,488,595.60

DATE	BY	DESCRIPTION



**To Be Maintained By LA County.**

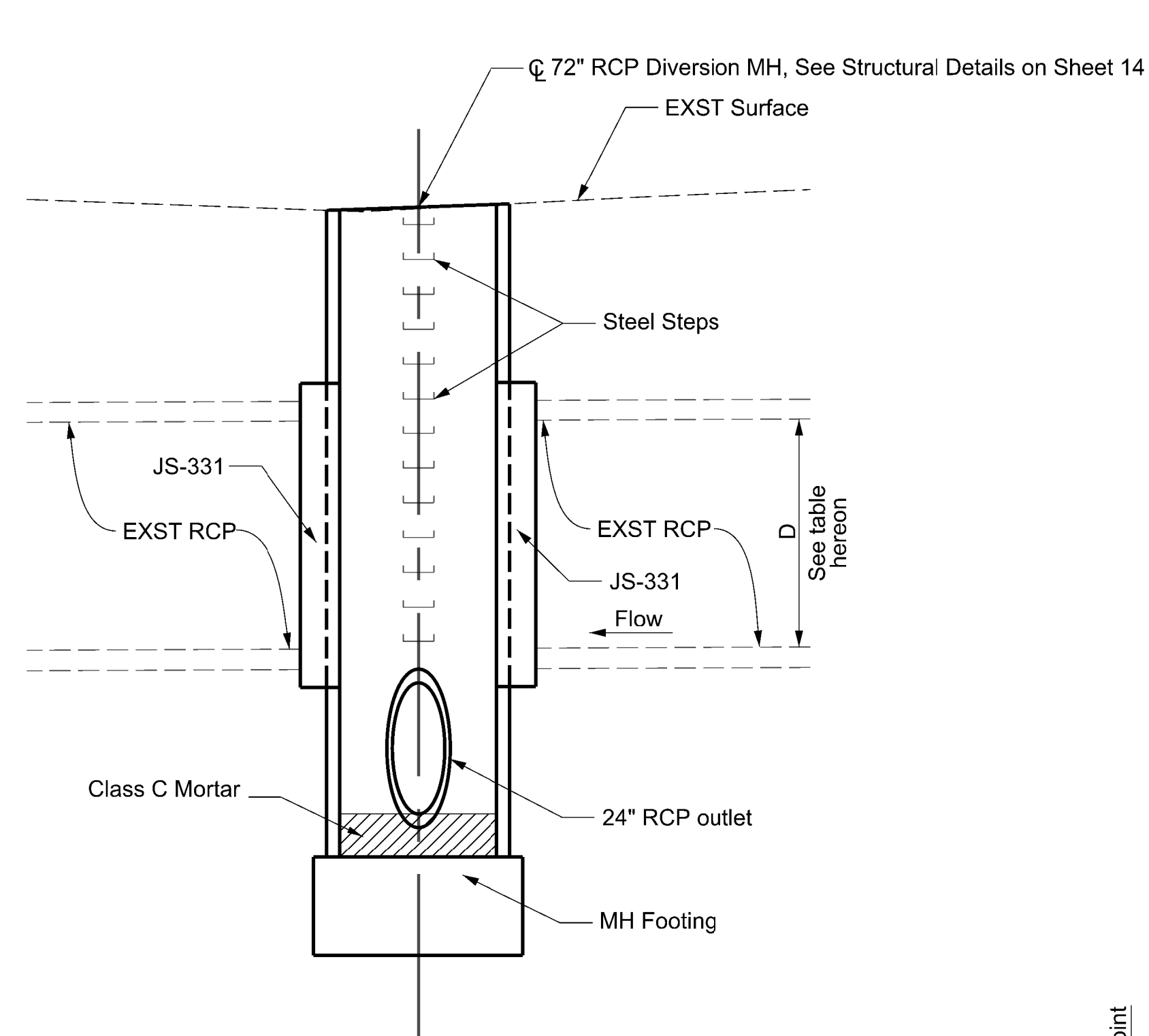
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**

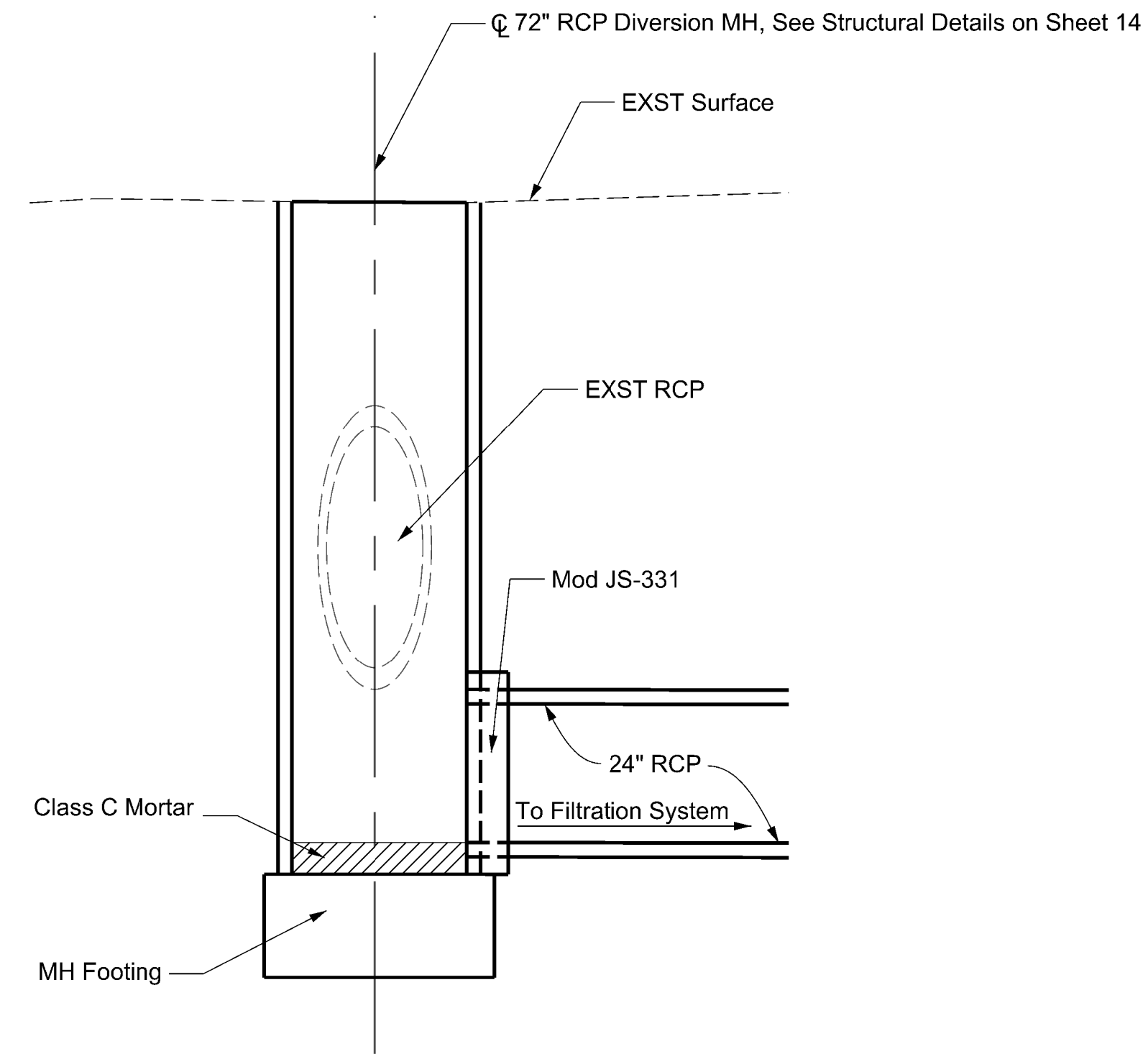
HOLMES AVENUE  
PLAN AND PROFILE  
STA. 313+50 TO STA. 318+00

DATE: 4/3/14  
PROJECT ENGINEER: E. Maguino

PIN WMD0000109 PCA F2181249 DWG SHEET 8 OF 63

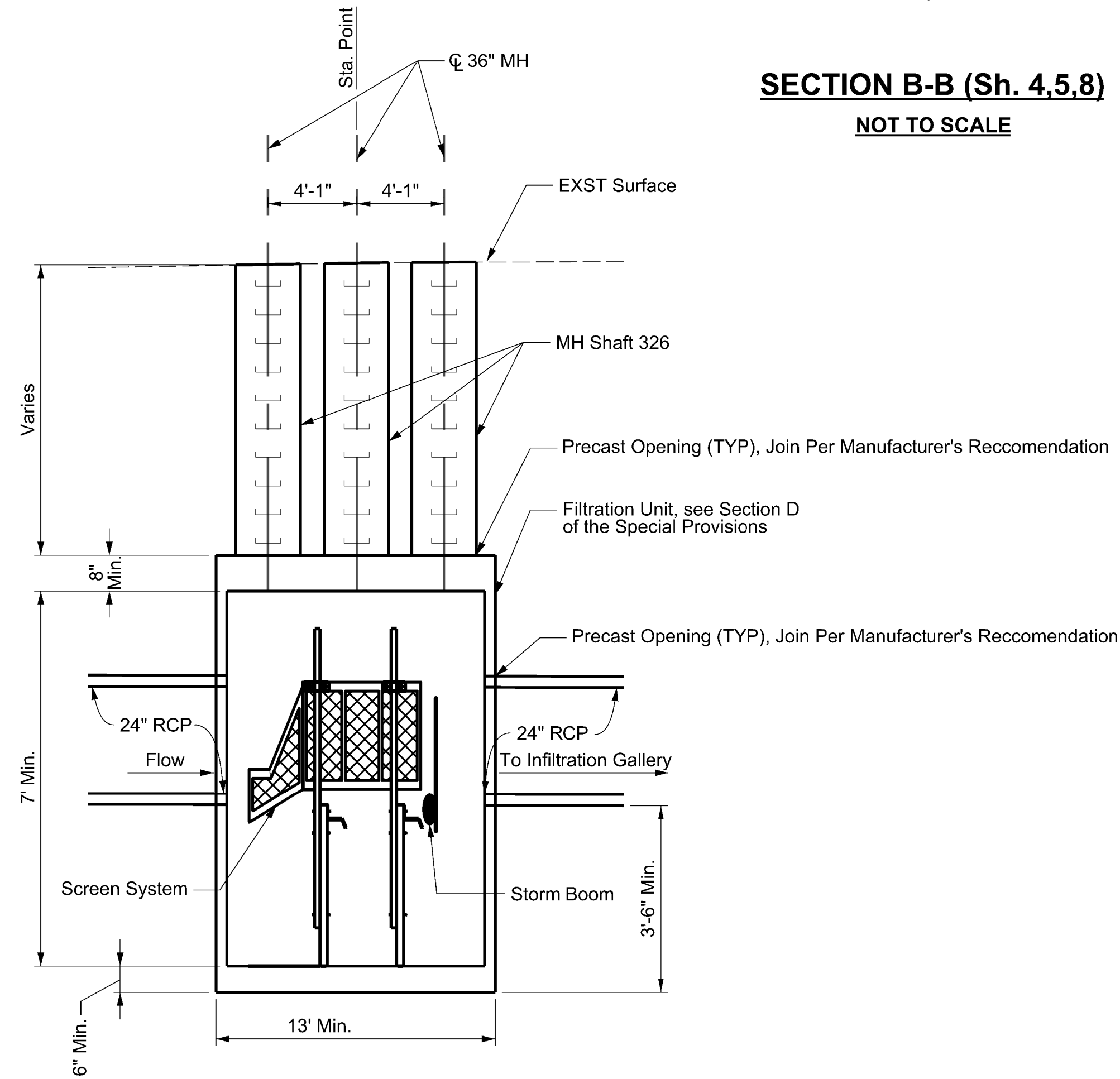


**SECTION A-A (Sh. 4,5,8)**  
NOT TO SCALE

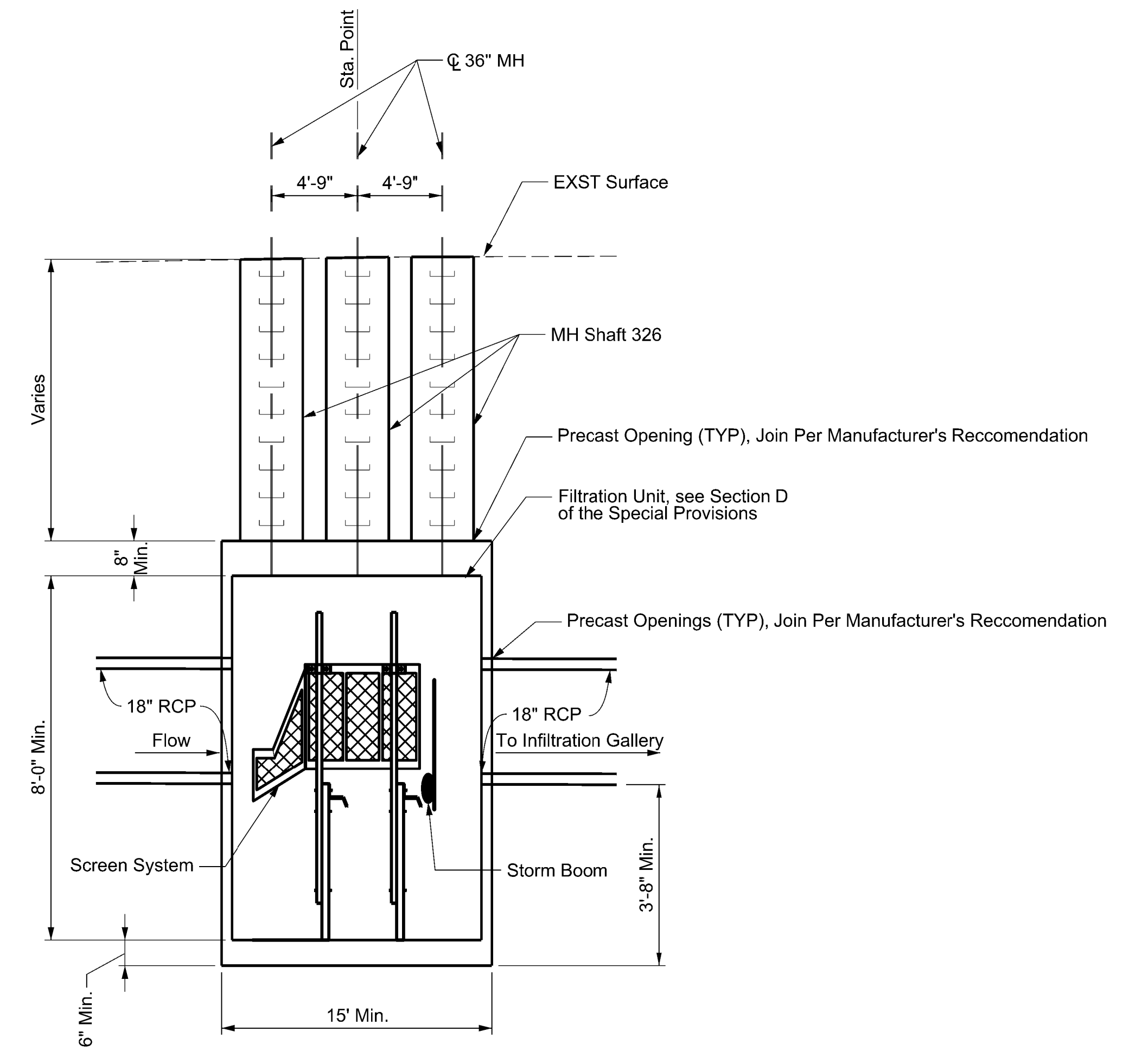


**SECTION B-B (Sh. 4,5,8)**  
NOT TO SCALE

	D
Whitsett Ave	42"
76th Pl	27"
Holmes Ave	48"



**DETAIL "D" (Sh. 4,5)**  
**FILTRATION UNIT**  
NOT TO SCALE



**DETAIL "E" (Sh. 6)**  
**FILTRATION UNIT**  
NOT TO SCALE

DATE	REVIEWED BY	CADD PROJECT FILE NAME	CHECKER	DESIGNER	DRAFTER
			M. TERRELL	E. MAGUINO	E. MAGUINO

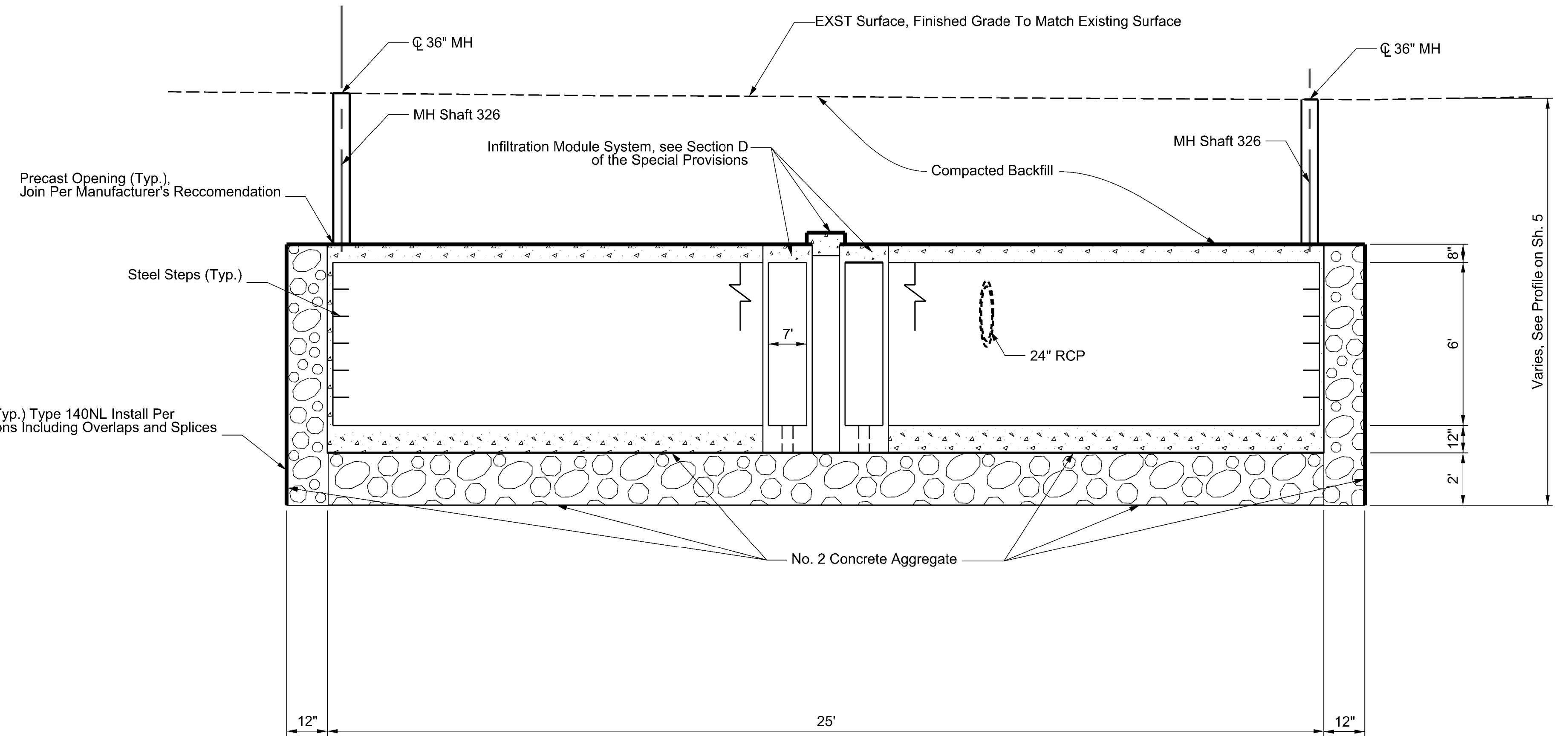
DATE	MK	DESCRIPTION



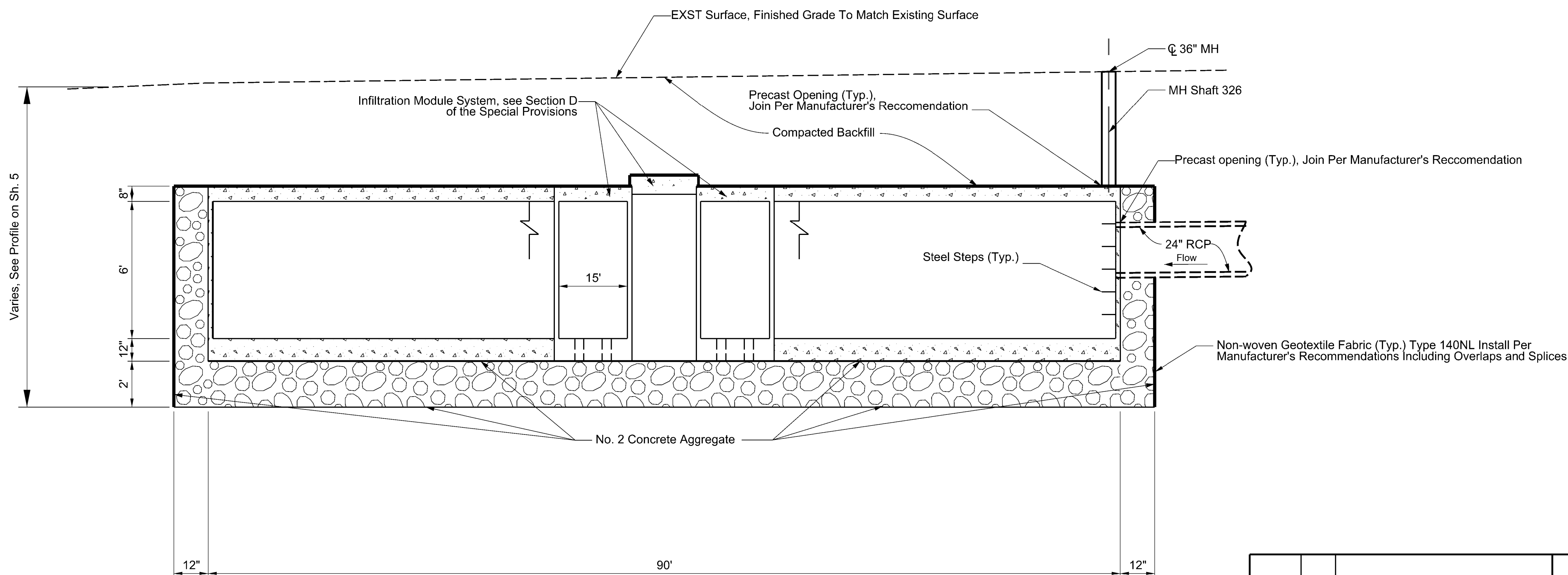
PROJECT ENGINEER  
E. Maguino  
DATE 4/5/14

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
 DIVERSION MANHOLE AND FILTRATION UNIT DETAILS

PIN WMD0000109 PCA F2181249 DWG SHEET 9 OF 63



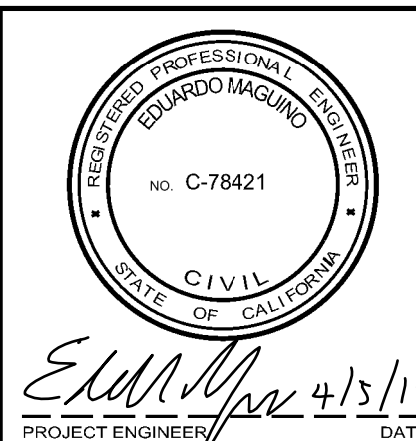
**SECTION W-W (Sh. 5)**  
**NOT TO SCALE**



**SECTION V-V (Sh. 5)**  
**NOT TO SCALE**

DATE	REVIEWED BY	CADD PROJECT FILE NAME	CHECKER	DESIGNER	DRAFTER
		WMD0000109	M. TERRELL	E. MAGUINO	E. MAGUINO

DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

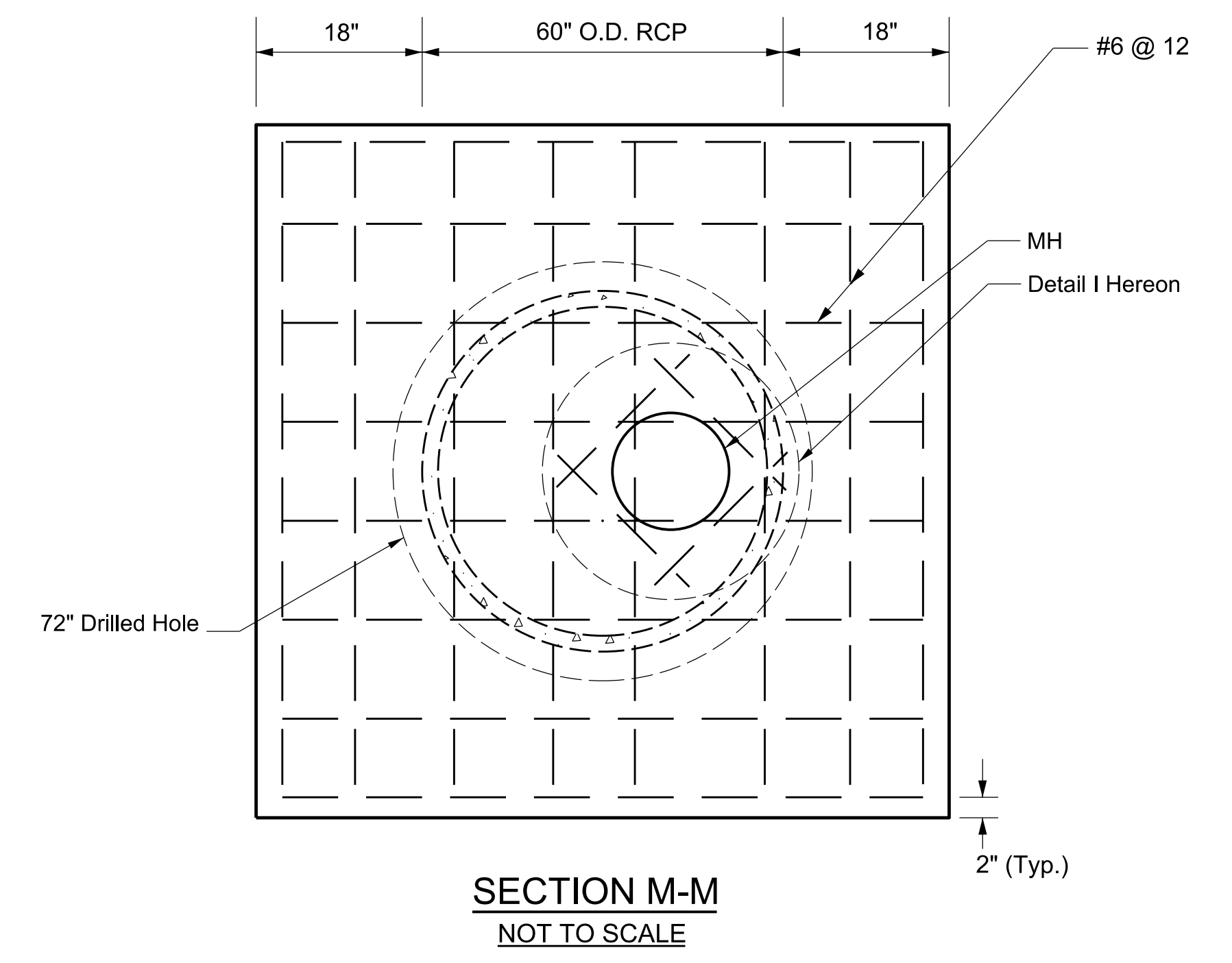
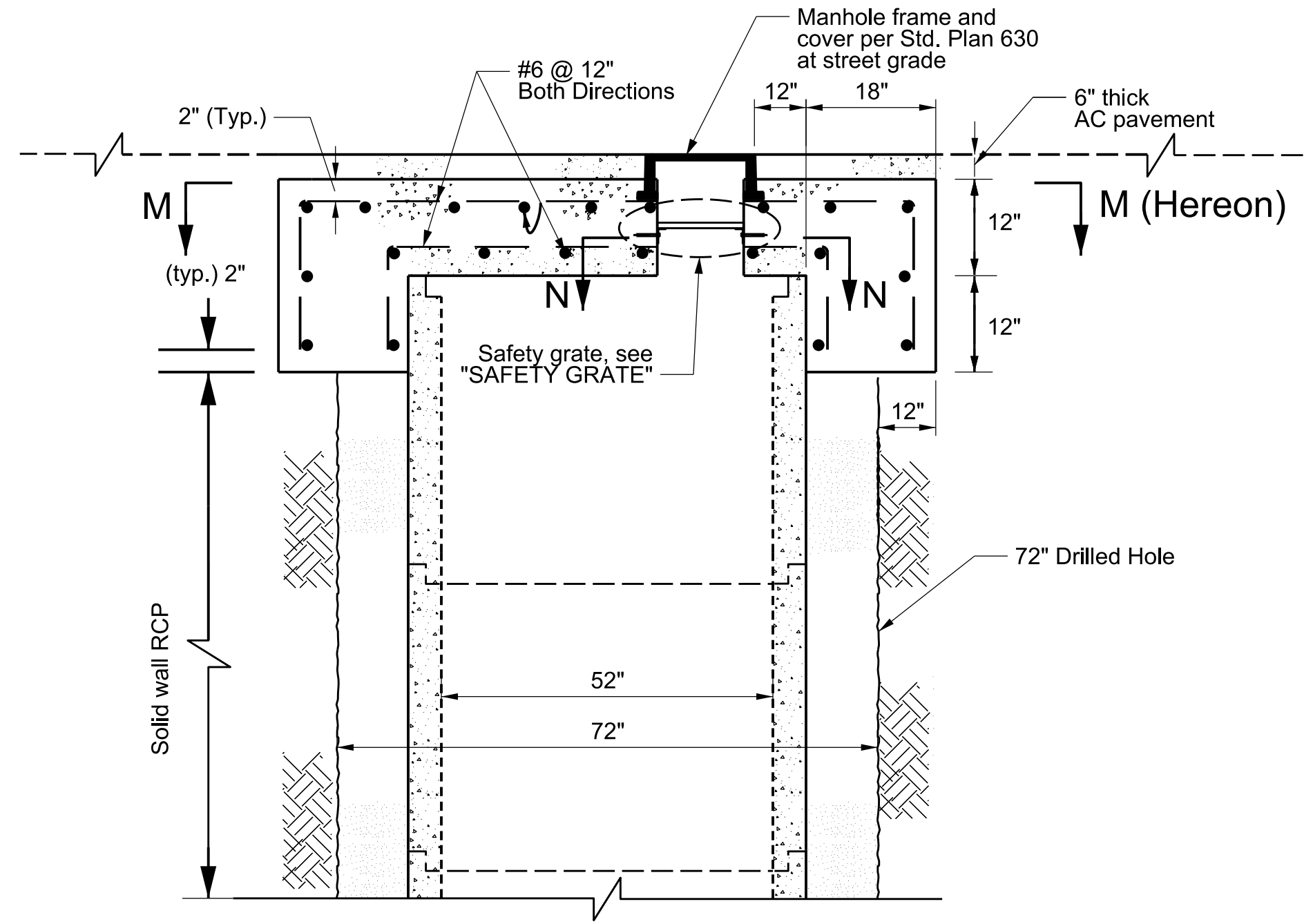
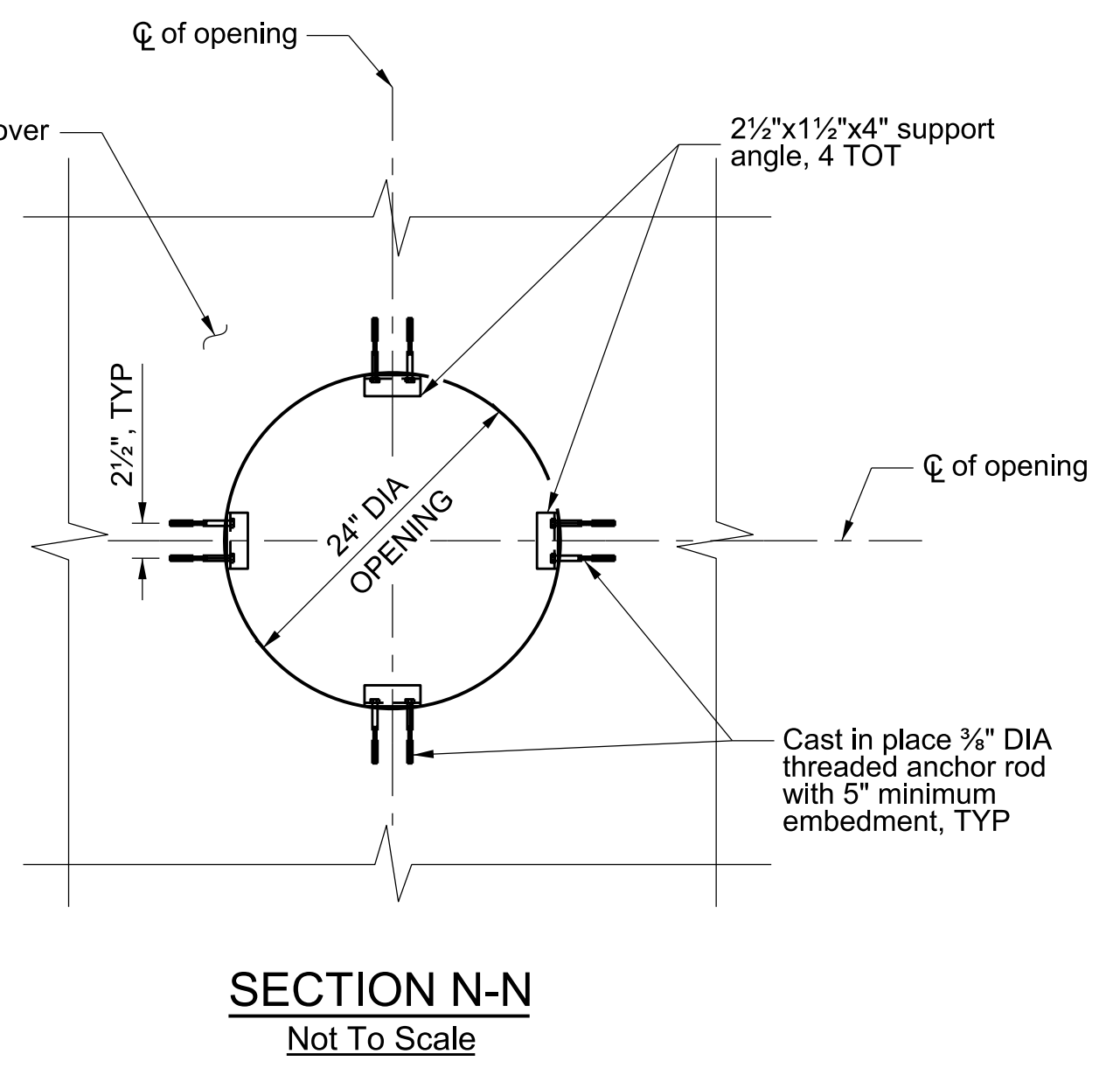
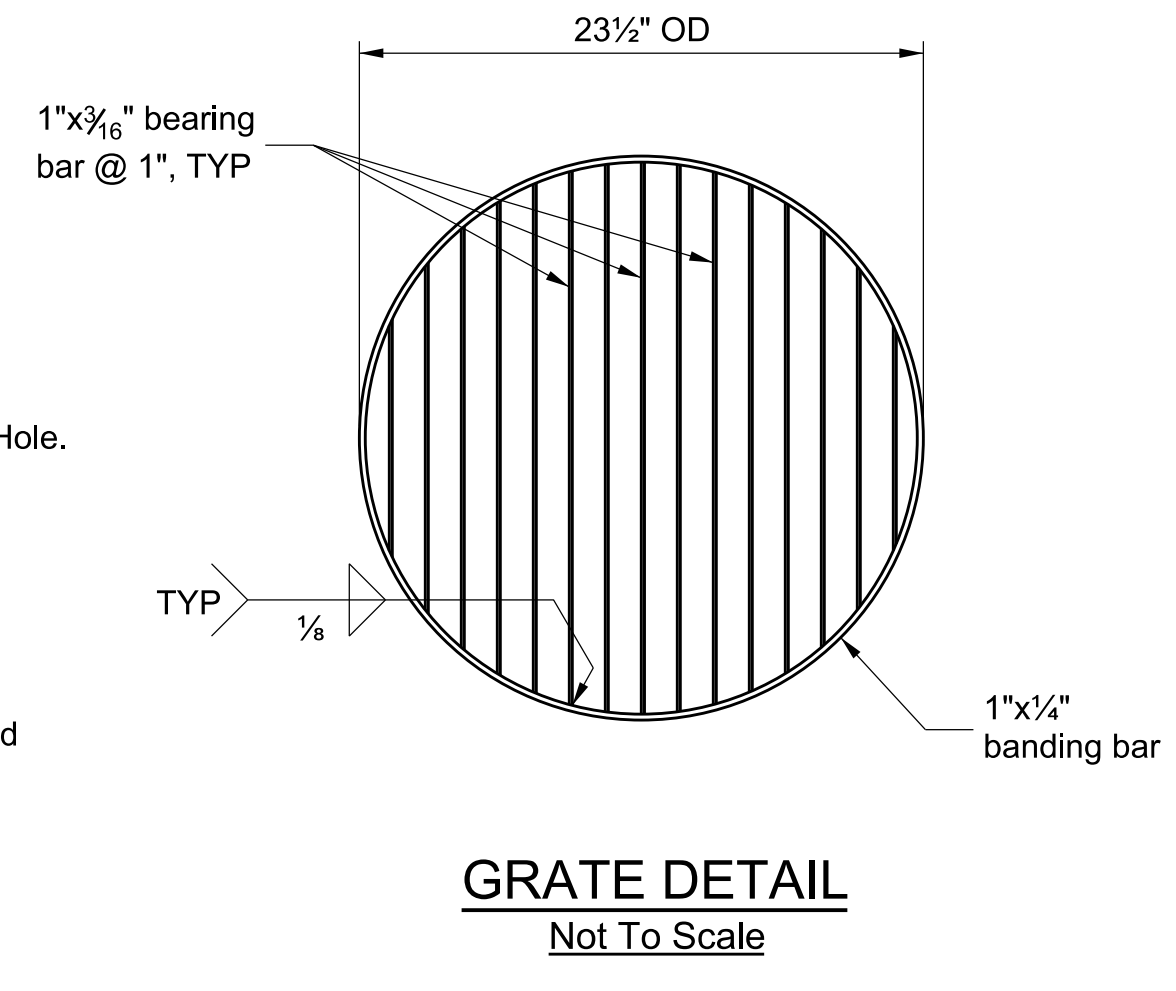
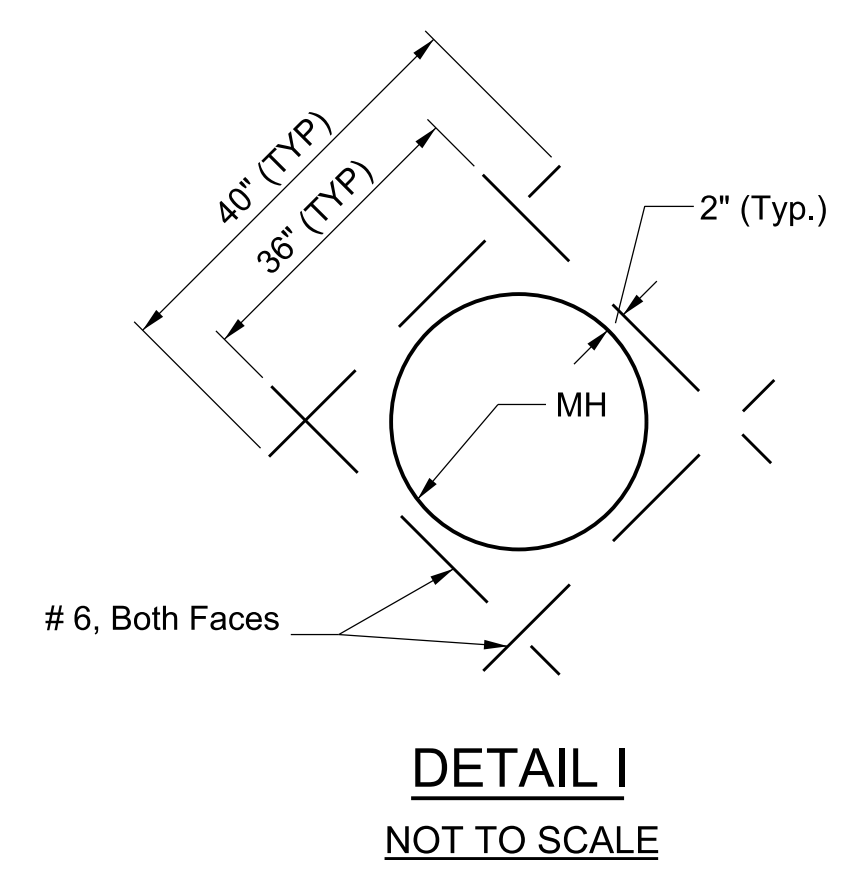
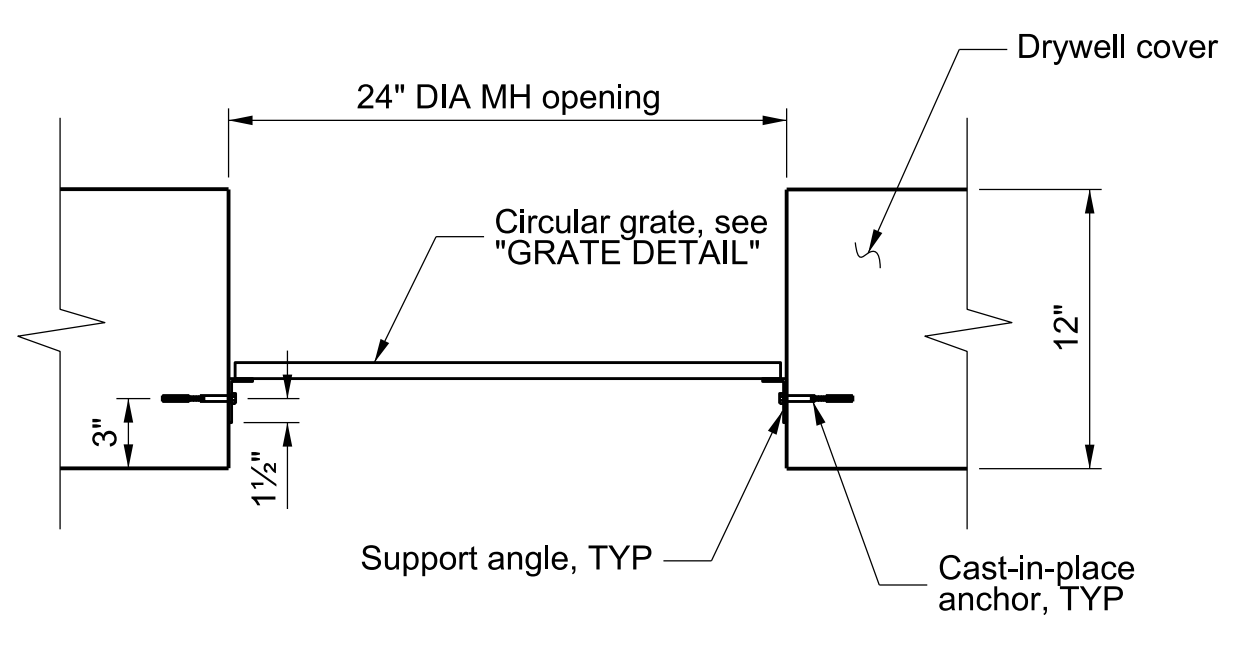
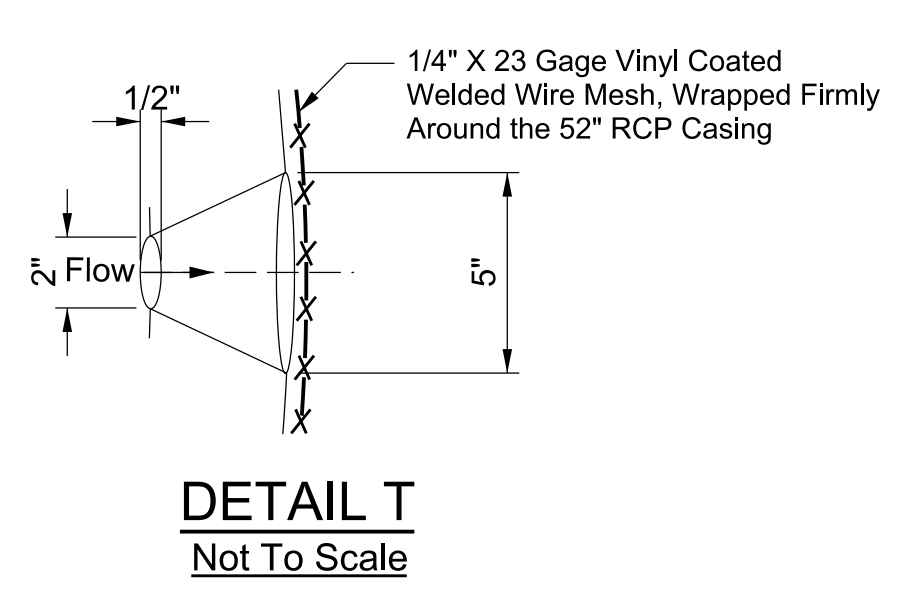
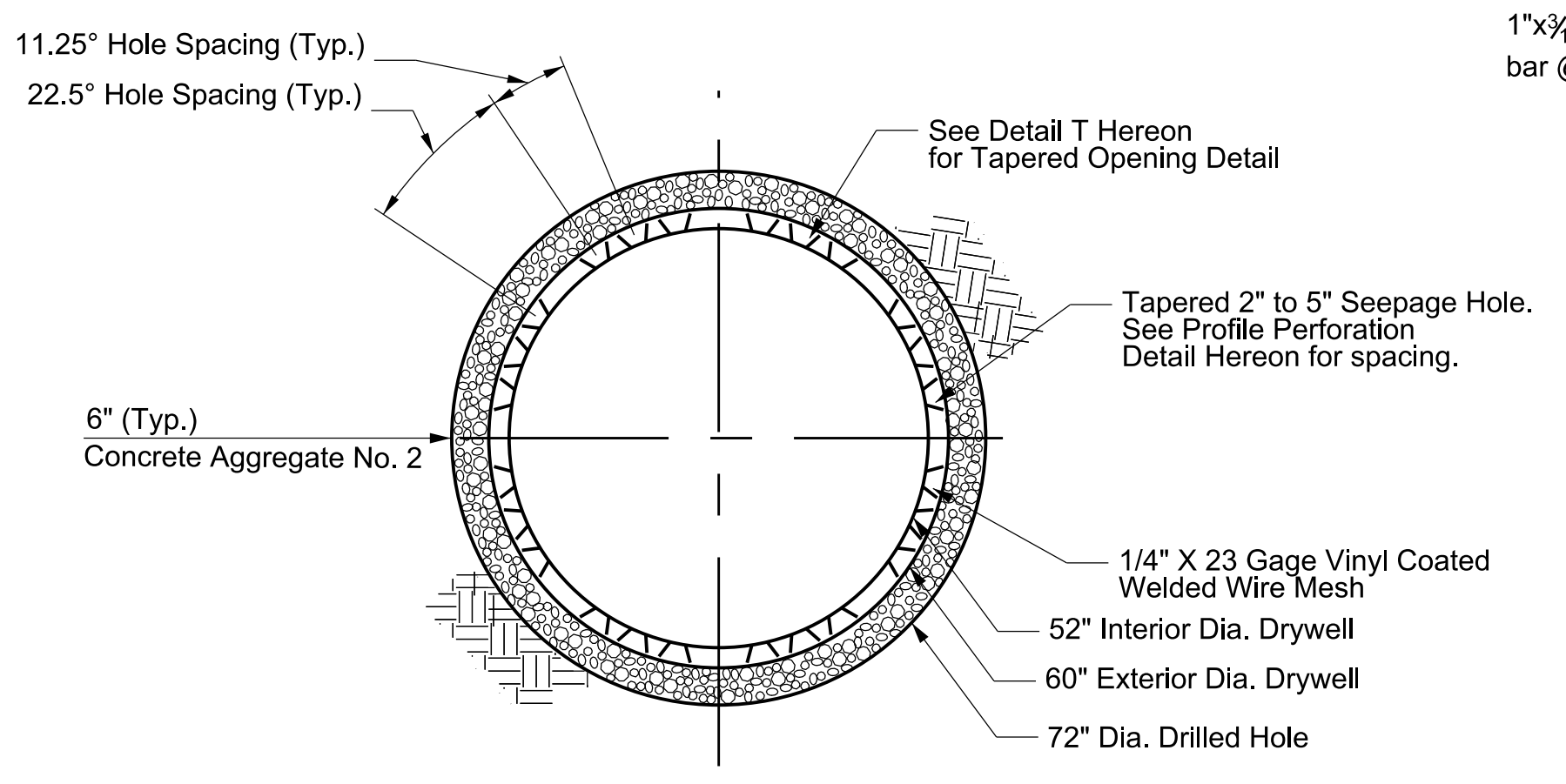
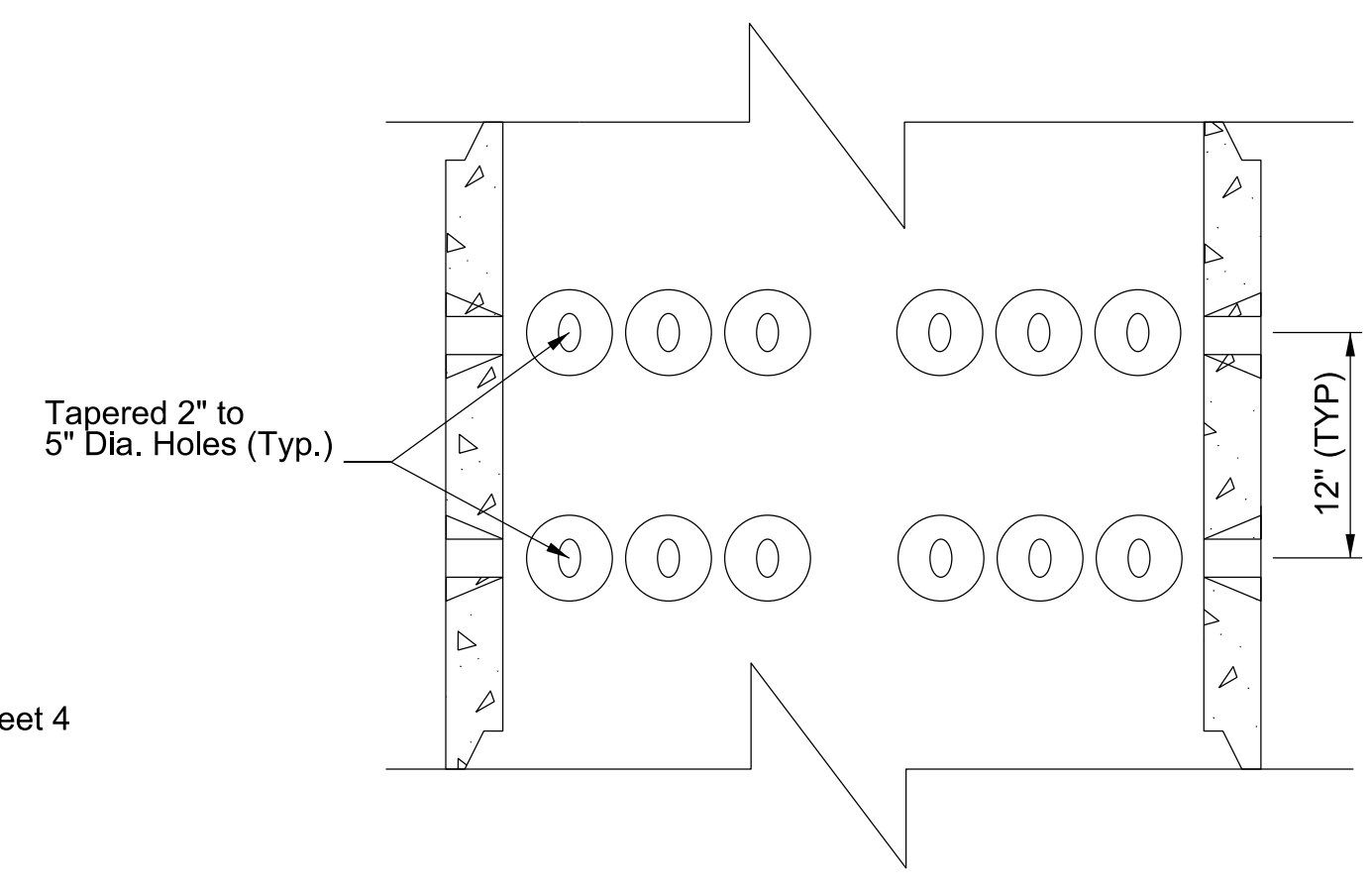
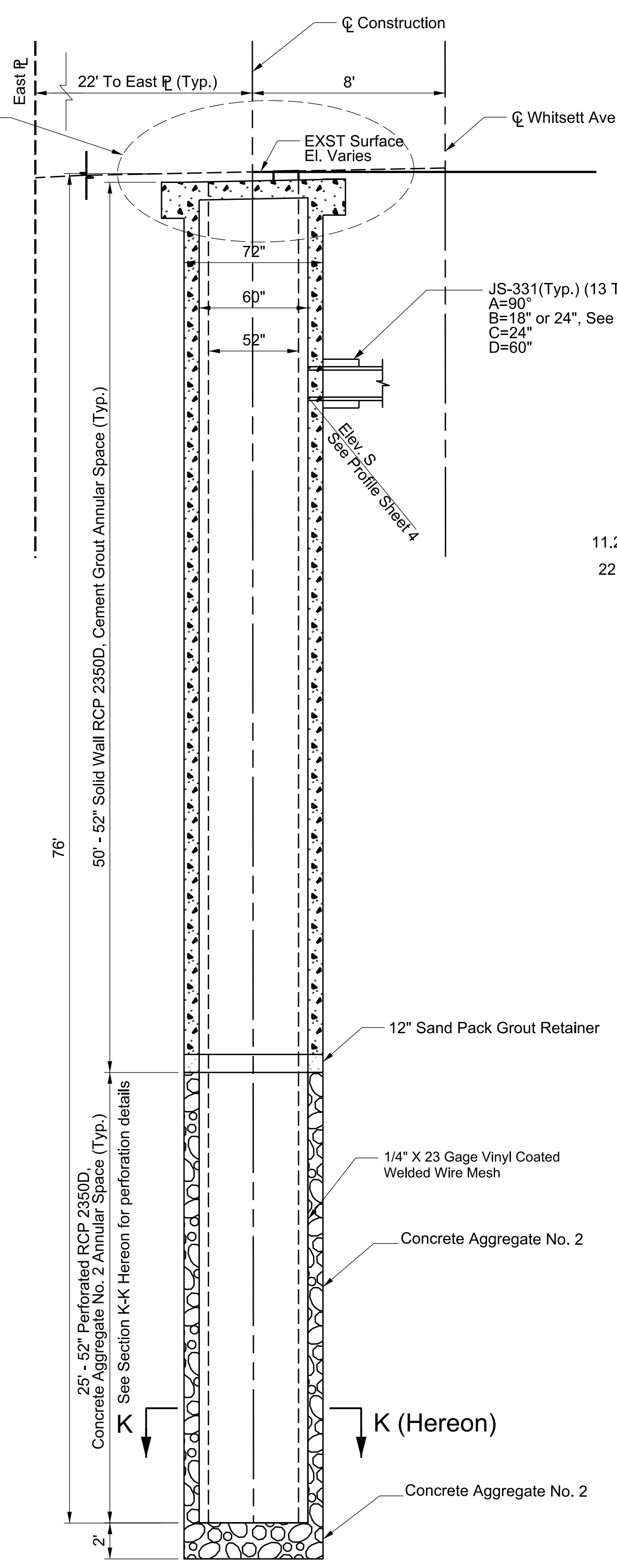
**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**

INFILTRATION MODULE SYSTEM SECTIONS

PROJECT ENGINEER: *E. Maguino* 4/5/14

PIN WMD0000109 PCA F2181249 DWG SHEET 10 OF 63

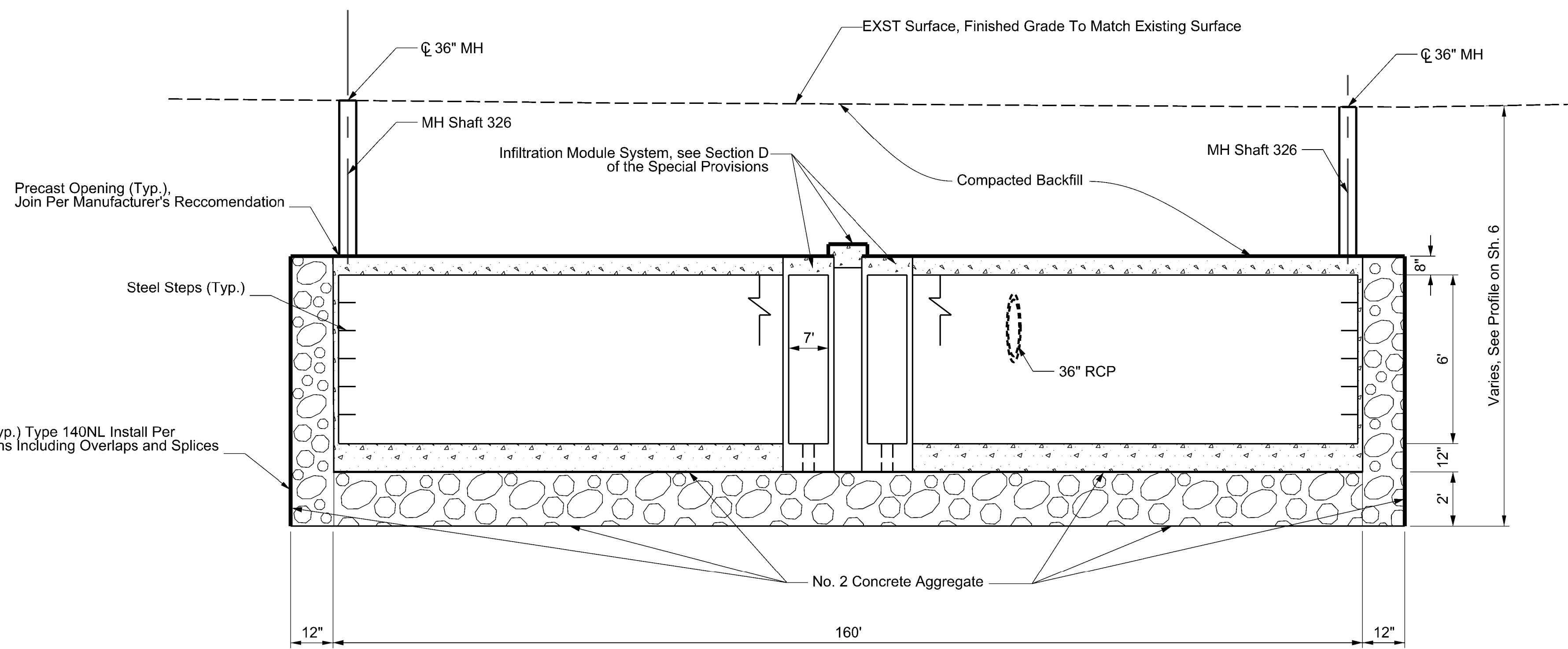
DATE	REVIEWED BY	CADD PROJECT FILE NAME	CHECKER	DESIGNER	DRAFTER
		WMD0000109	M.TERRELL	E.MAGUINO	E.MAGUINO



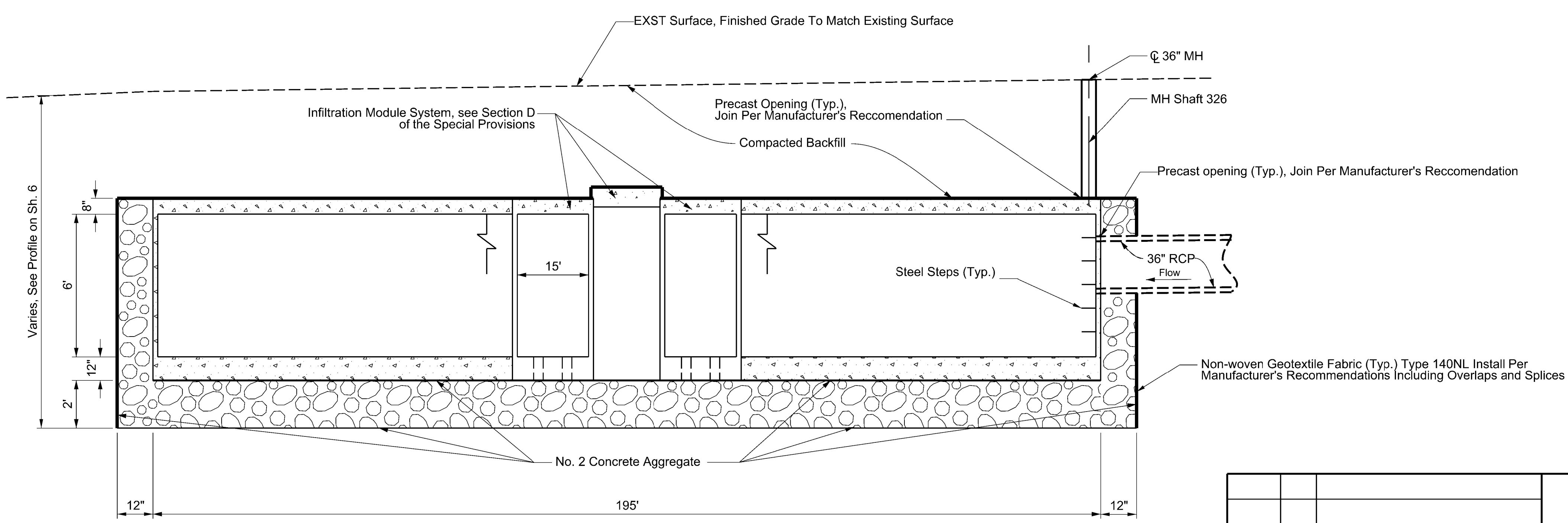
DATE	MK	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER  
EDUARDO MAGUINO  
No. C-78421  
STATE OF CALIFORNIA  
CIVIL  
PROJECT ENGINEER  
4/5/14

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
DRYWELL DETAILS  
PIN WMD0000109 PCA F2181249 DWG SHEET 11 OF 63



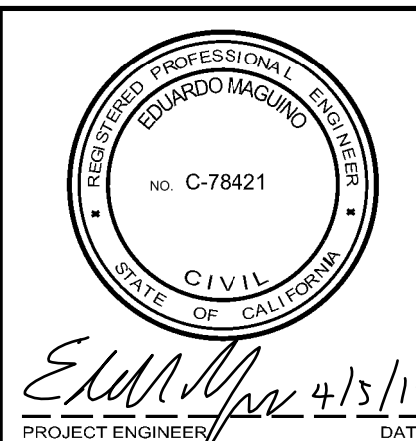
**SECTION Y-Y (Sh. 6)**  
NOT TO SCALE



**SECTION Z-Z (Sh. 6)**  
NOT TO SCALE

DATE	REVIEWED BY	CADD PROJECT FILE NAME	CHECKER	DESIGNER	DRAFTER
		WMD0000109	M. TERRELL	E. MAGUINO	E. MAGUINO

DATE	MK	DESCRIPTION



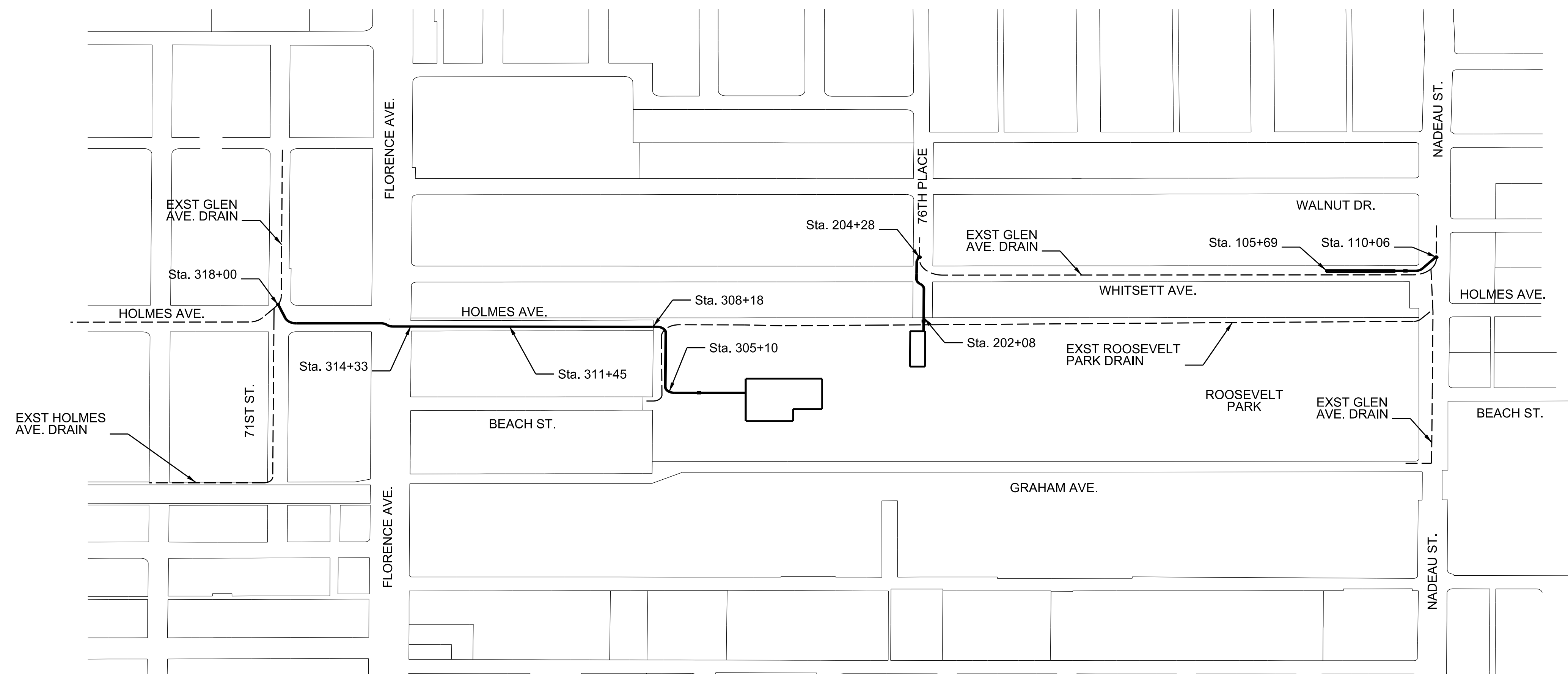
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**

INFILTRATION MODULE SYSTEM SECTIONS

PROJECT ENGINEER: *E. Maguino* DATE: 4/5/14

PIN WMD0000109 PCA F2181249 DWG SHEET 12 OF 63



  
**GENERAL PLAN**  
 NOT TO SCALE

RESURFACING SCHEDULE			
LOCATION	STATION LIMITS	EXISTING PAVEMENT	RESURFACING PAVEMENT
HOLMES AVE.	STA 314+33 TO 318+00	5" AC ON 5" CONC	6" AC ON 6" CONC
HOLMES AVE.	STA 311+45 TO 314+33	7.5" CONC ON NATIVE	8" CONC ON NATIVE
HOLMES AVE.	STA 308+18 TO 311+45	6.75" CONC ON NATIVE	7.75" CONC ON NATIVE
HOLMES AVE.	STA 305+10 TO 308+18	5" AC ON 5" CAB	6" AC ON 6" CMB
76TH PLACE	STA 202+08 TO 204+28	2" AC ON 4" CAB	3" AC ON 5" CMB
WHITSETT AVE.	STA 105+69 TO 110+06	4.5" AC ON 5" CAB	5.5" AC ON 6" CMB

**RESURFACING NOTES:**

1. THE RESURFACING PLAN SHOWN ABOVE IS SCHEMATIC. PAVEMENT THICKNESSES SHOWN APPLY ONLY WITHIN THE LIMITS OF EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO PAVEMENT OUTSIDE THE LIMITS OF EXCAVATION.
2. THE EXISTING PAVEMENT ADJACENT TO PROPOSED IMPROVEMENTS SHALL BE REMOVED TO A MINIMUM OF 2 FEET FROM THE PROPOSED STRUCTURE AND REPLACED PER THE RESURFACING SCHEDULE.

DRAFTER: E. MAGUINO  
 DESIGNER: E. MAGUINO  
 CHECKER: M. TERRELL  
 CADD PROJECT FILE NAME:  
 REVIEWED BY:  
 DATE:

DATE	MK	DESCRIPTION

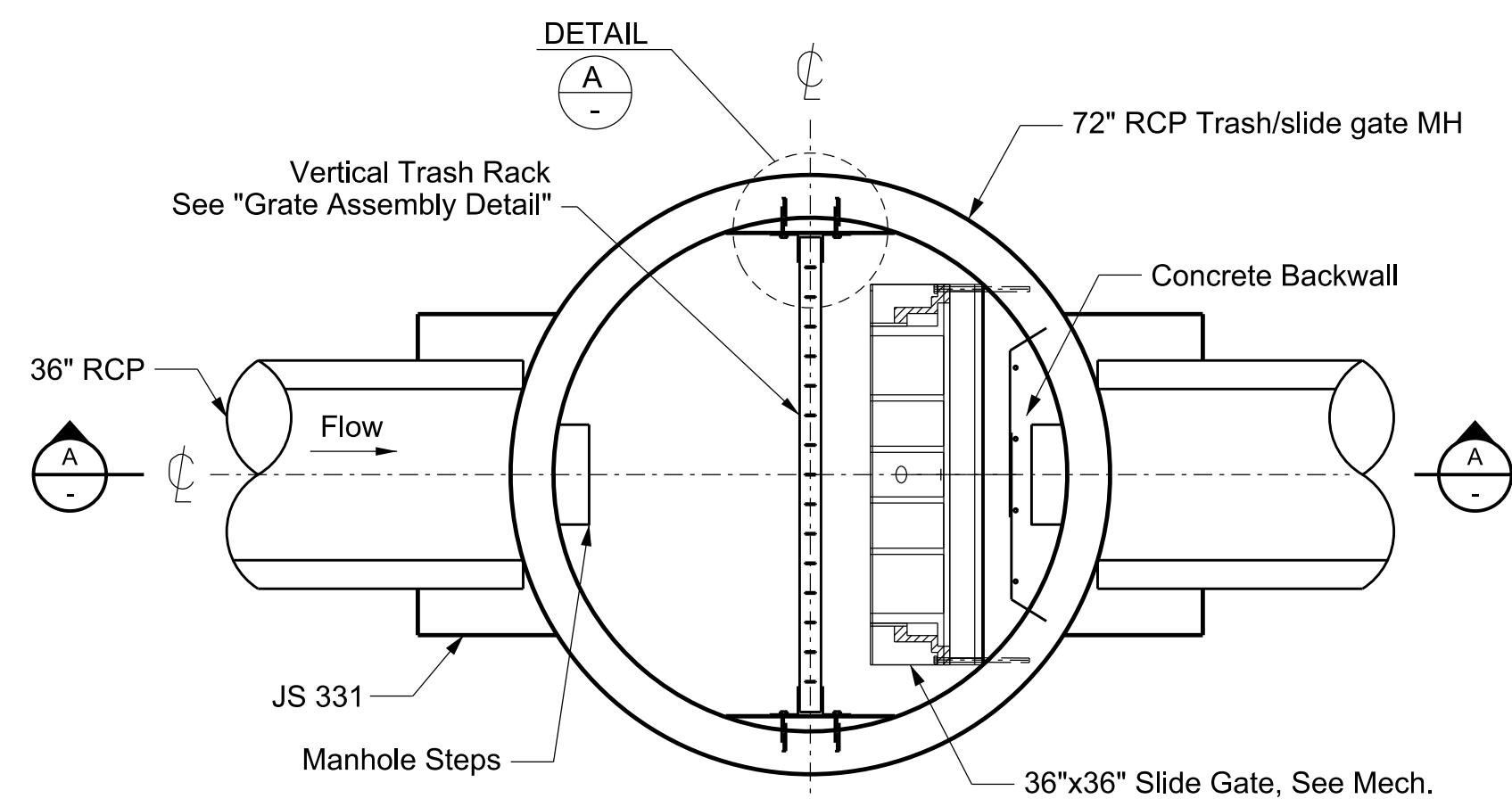


PROJECT ENGINEER: *Eduardo Maguino*  
 DATE: 4/5/18

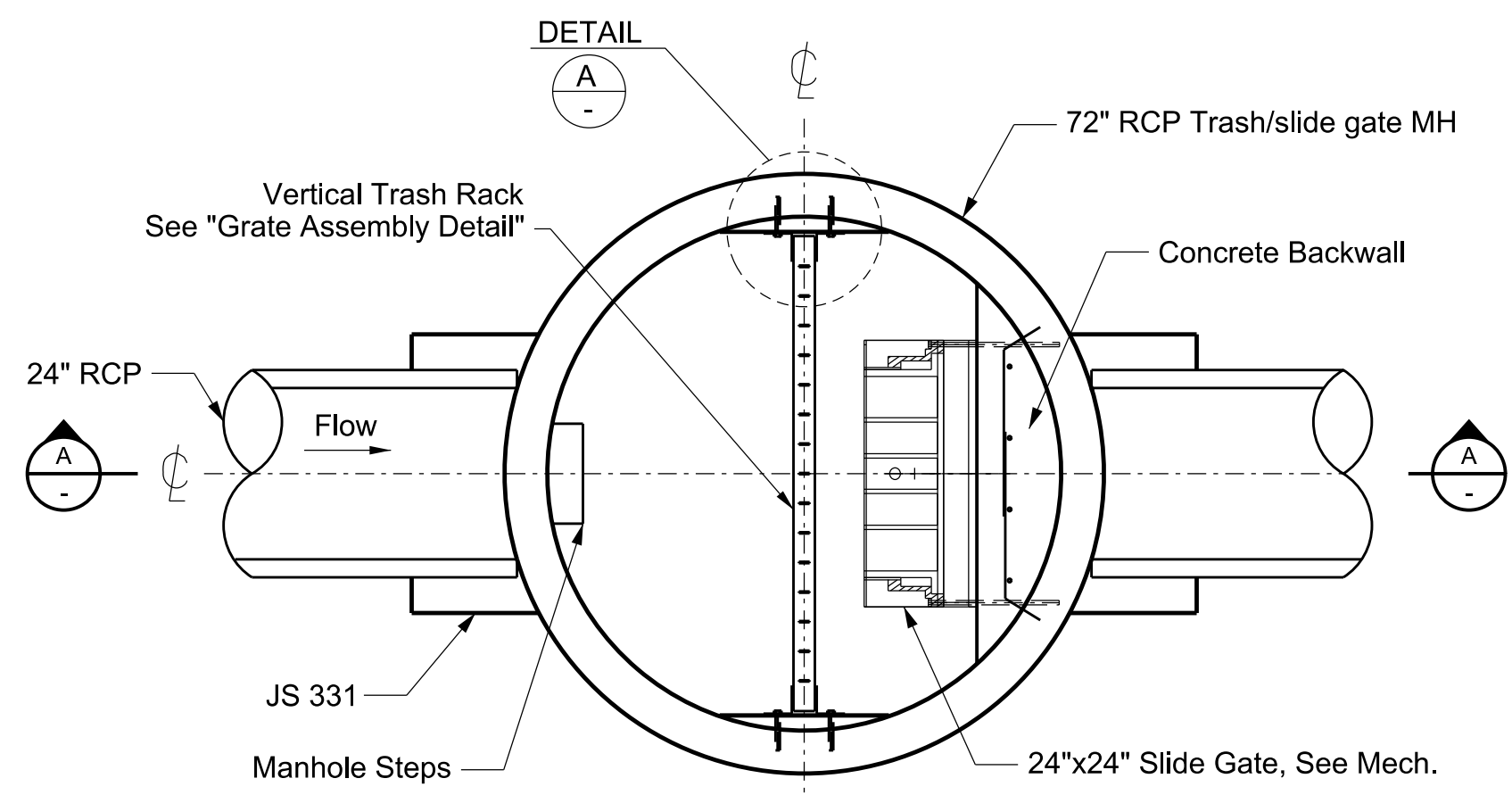
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK**  
**REGIONAL STORMWATER CAPTURE**  
**PROJECT**  
 RESURFACING PLAN

PIN WMD0000109    PCA F2181249    DWG    SHEET 13 OF 63

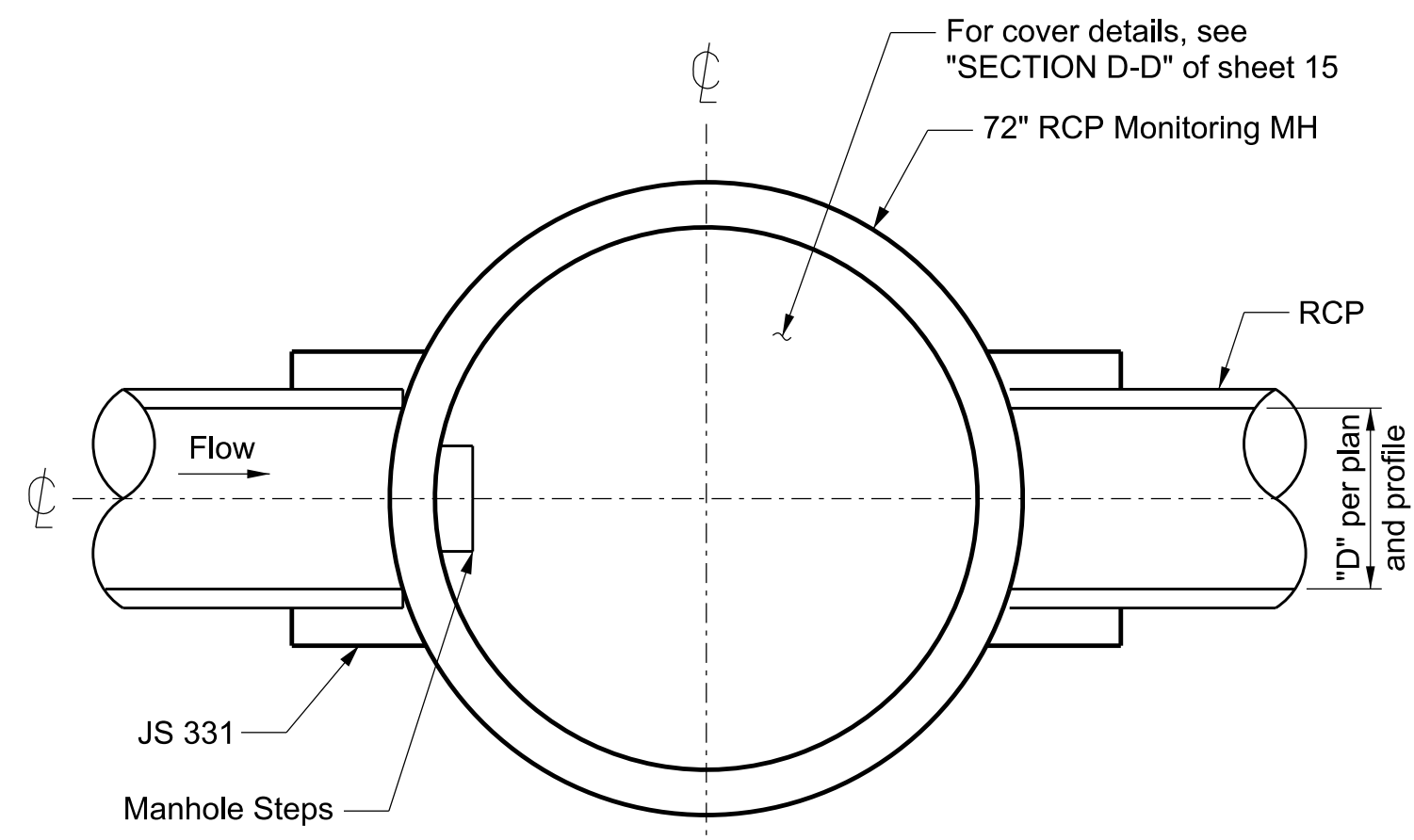
**ADDENDUM NO. 1**



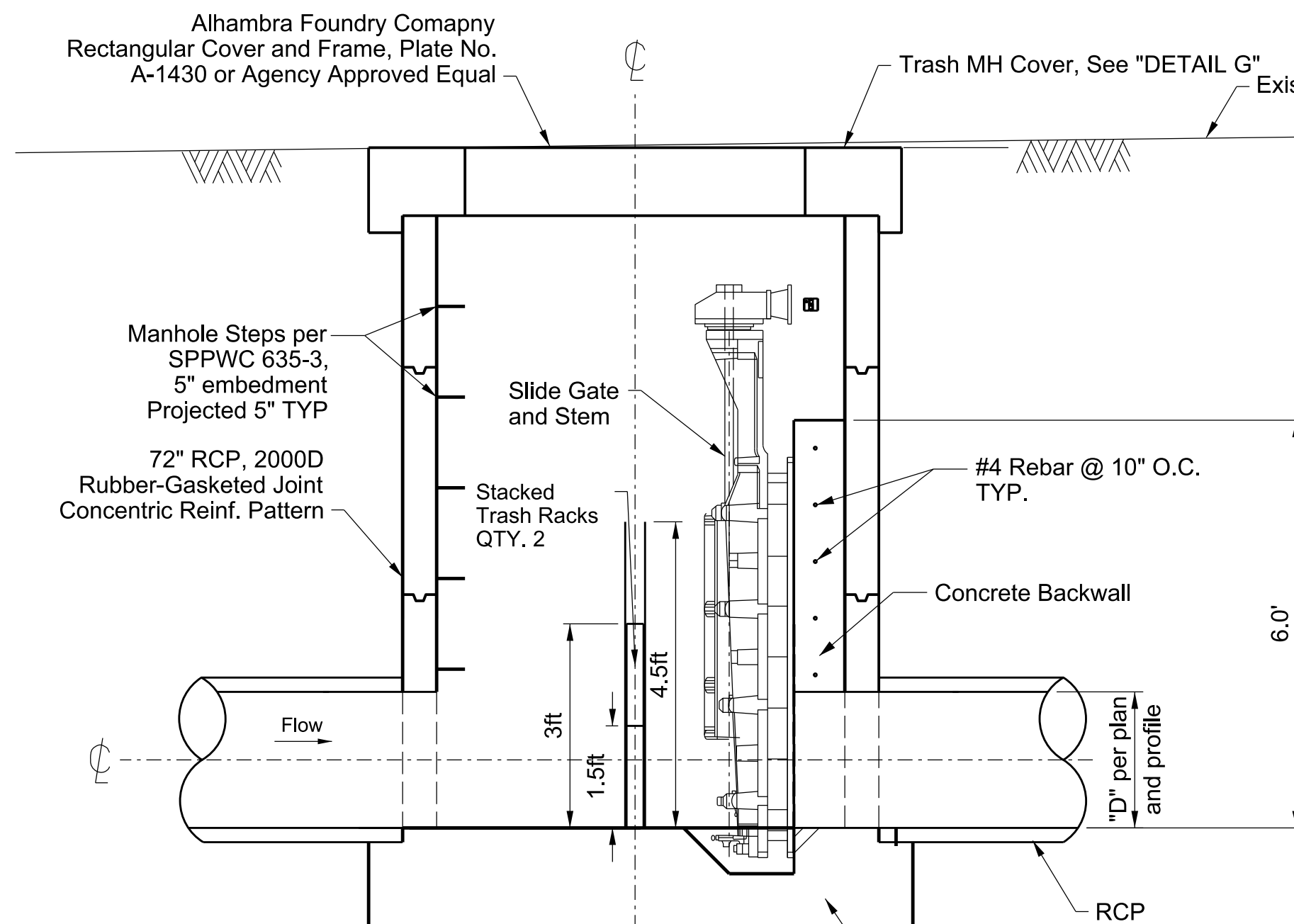
**PLAN VIEW FOR TRASH/SLIDE GATE MANHOLE WITH 36" X 36" SLIDE GATE**  
SCALE 1/2"=1'



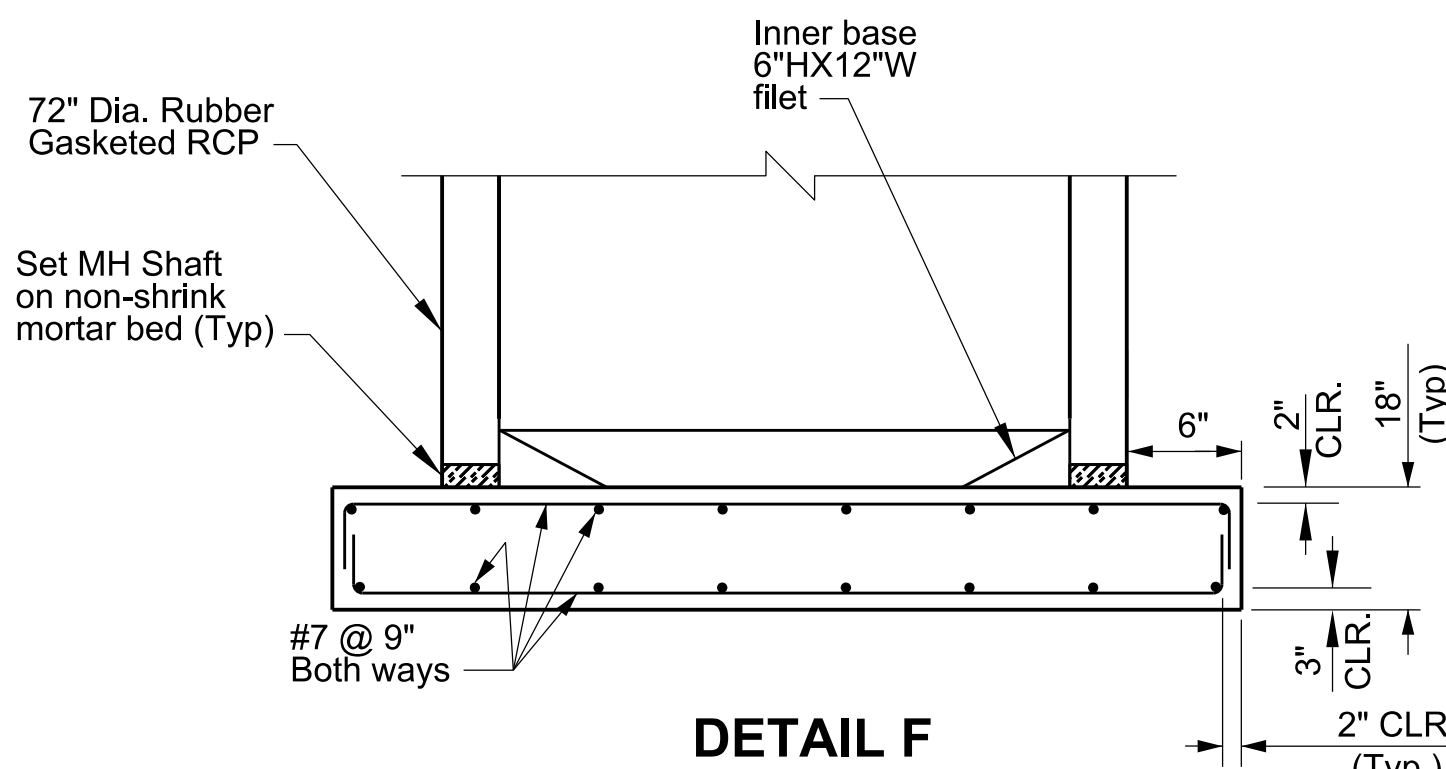
**PLAN VIEW FOR TRASH/SLIDE GATE MANHOLE W/ 24" X 24" SLIDE GATE**  
SCALE 1/2"=1'



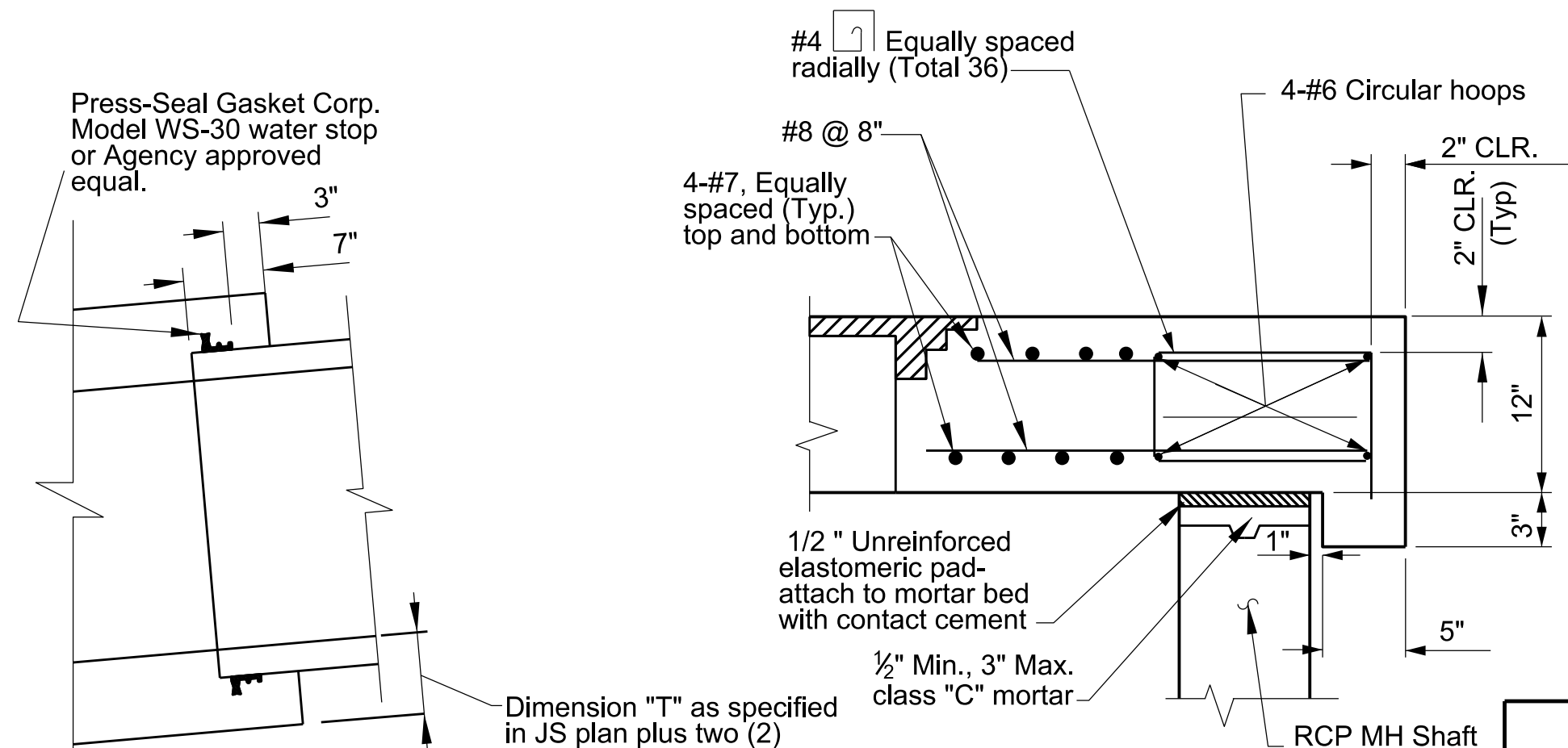
**PLAN VIEW FOR TYP. MONITORING MANHOLE**  
SCALE 1/2"=1'



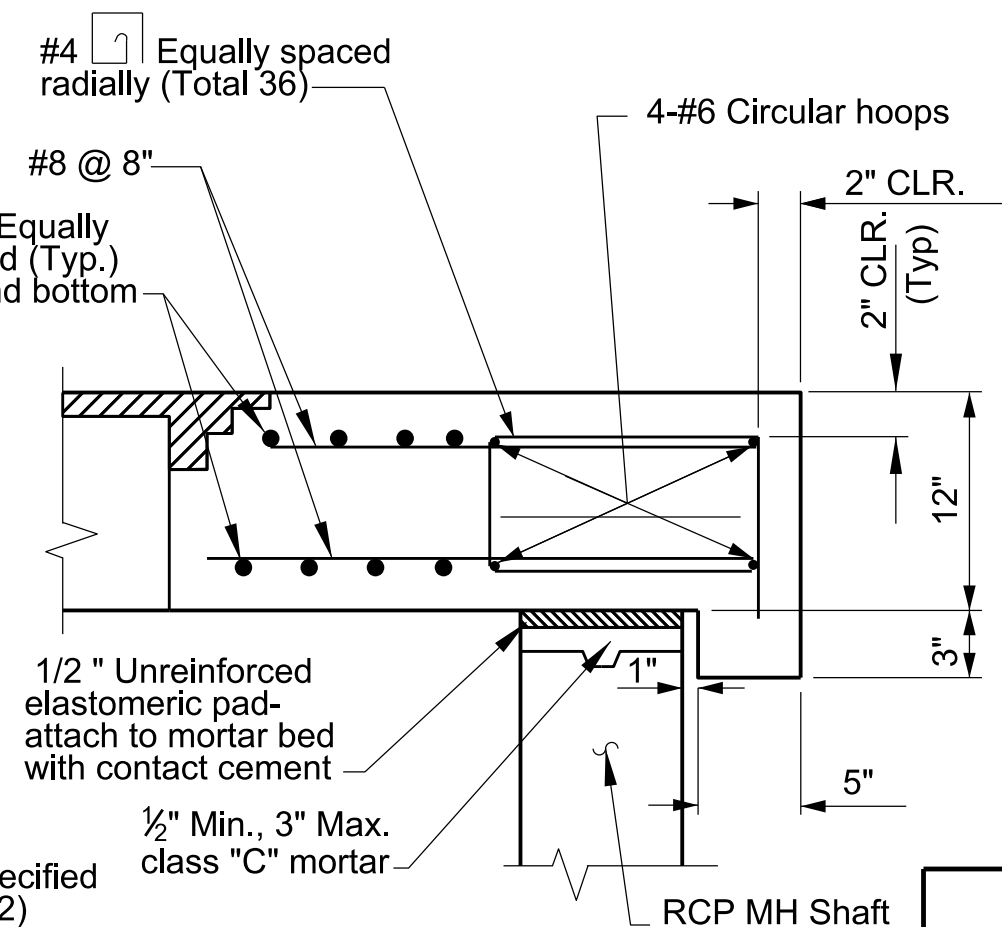
**SECTION A-A**  
SCALE 1/2"=1'



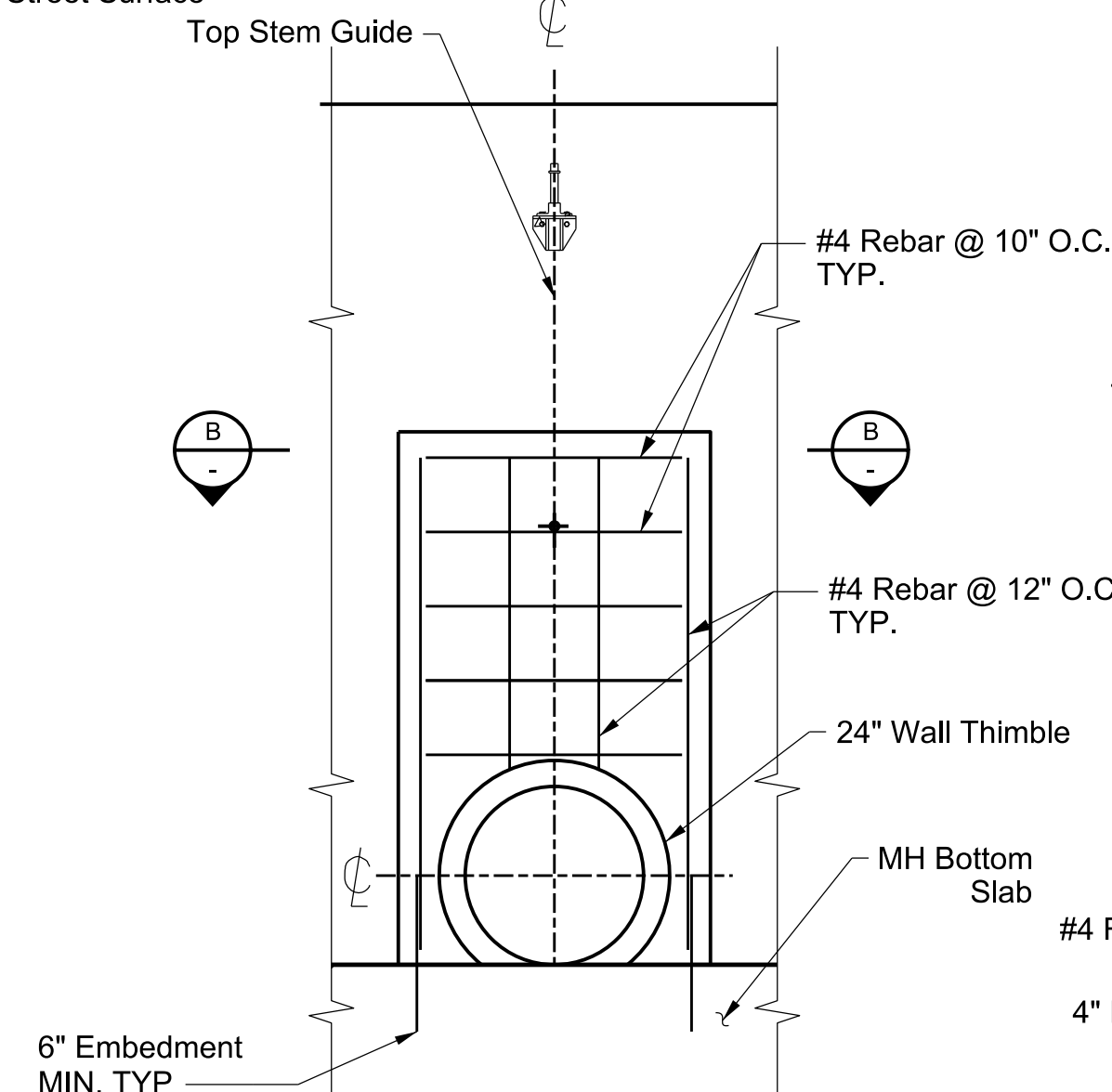
**DETAIL F**  
**MANHOLE FOOTING**  
N.T.S.



**DETAIL H**  
**JUNCTION STRUCTURE WATER STOP**  
N.T.S.

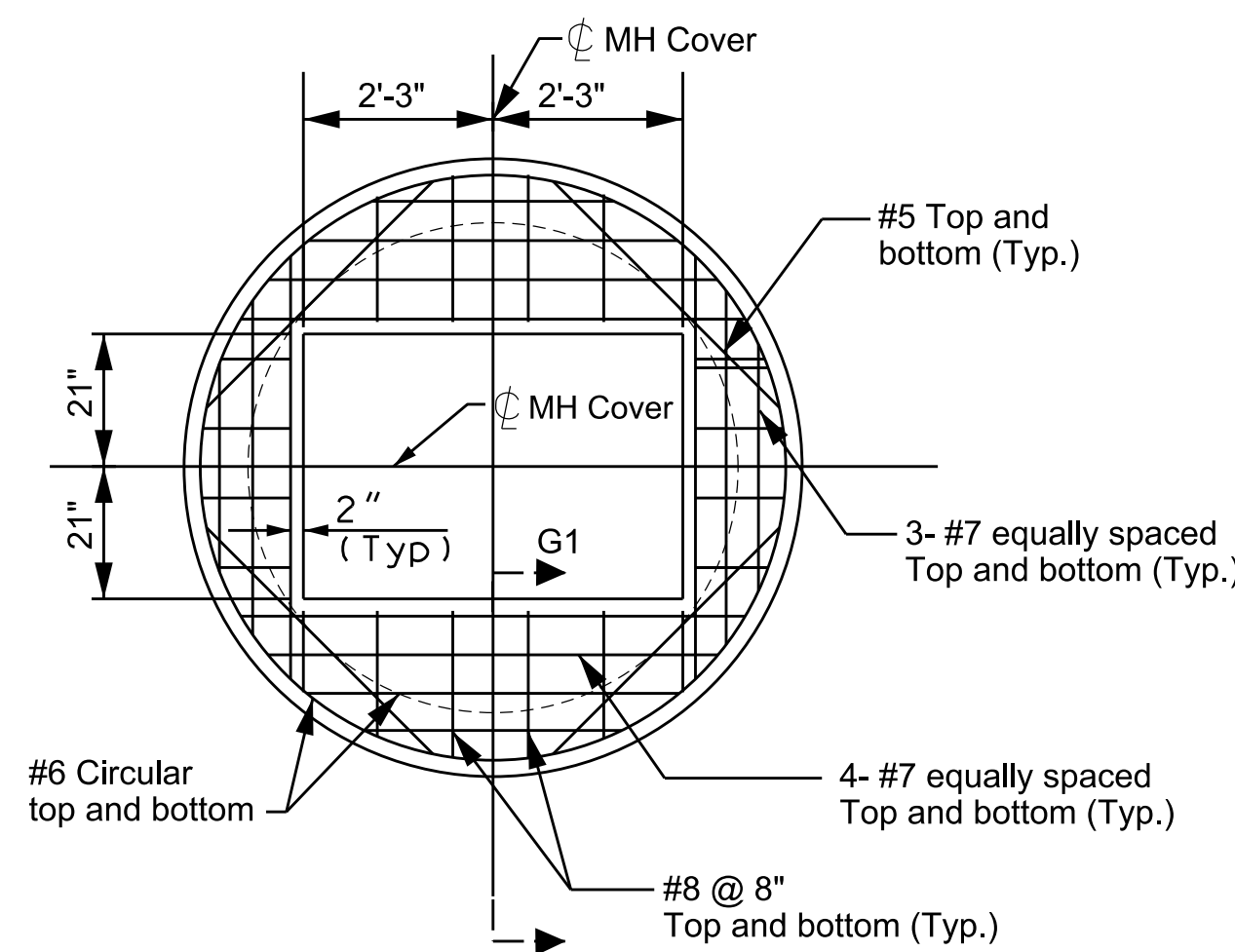


**SECTION G1-G1**  
N.T.S.

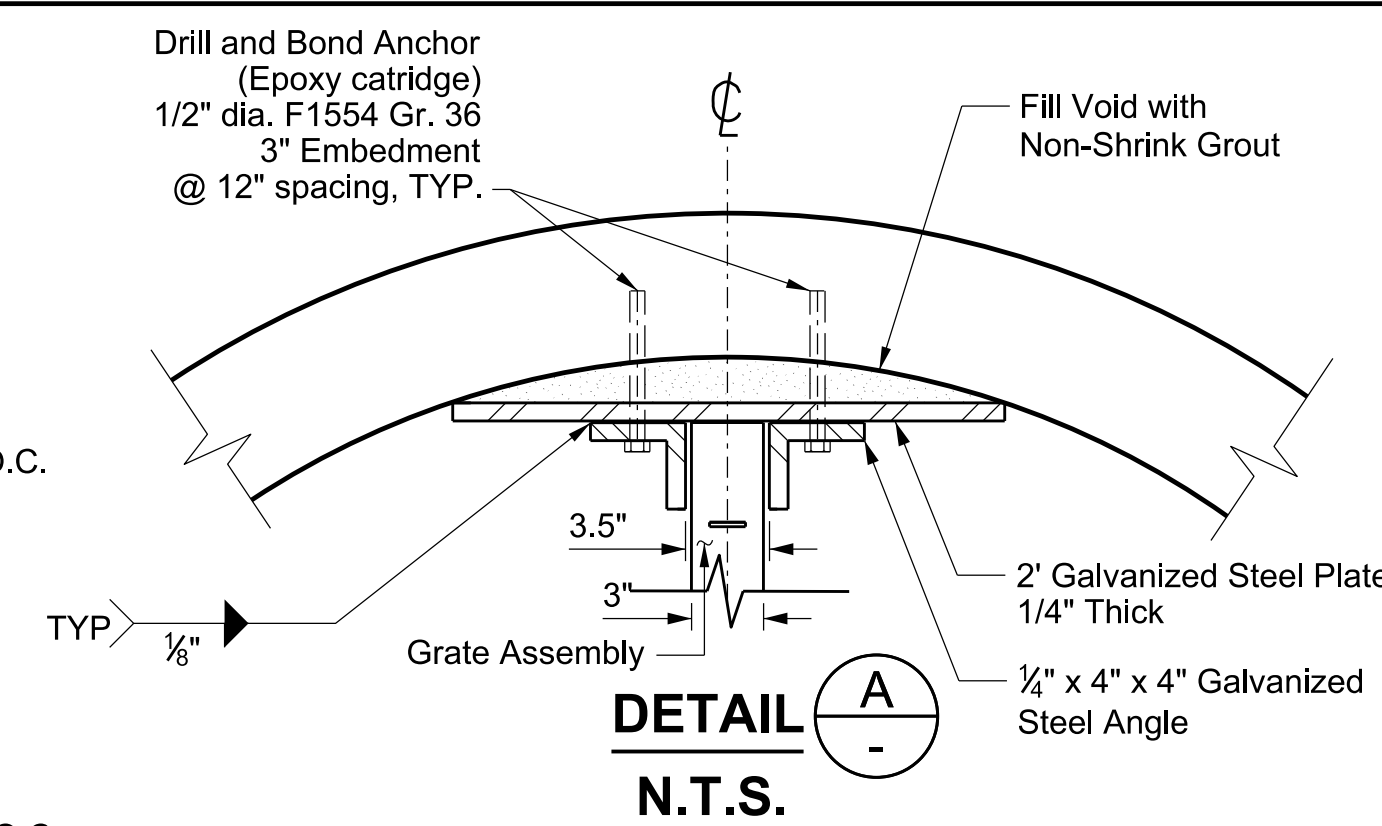


**ELEVATION**  
SCALE 1/2"=1'

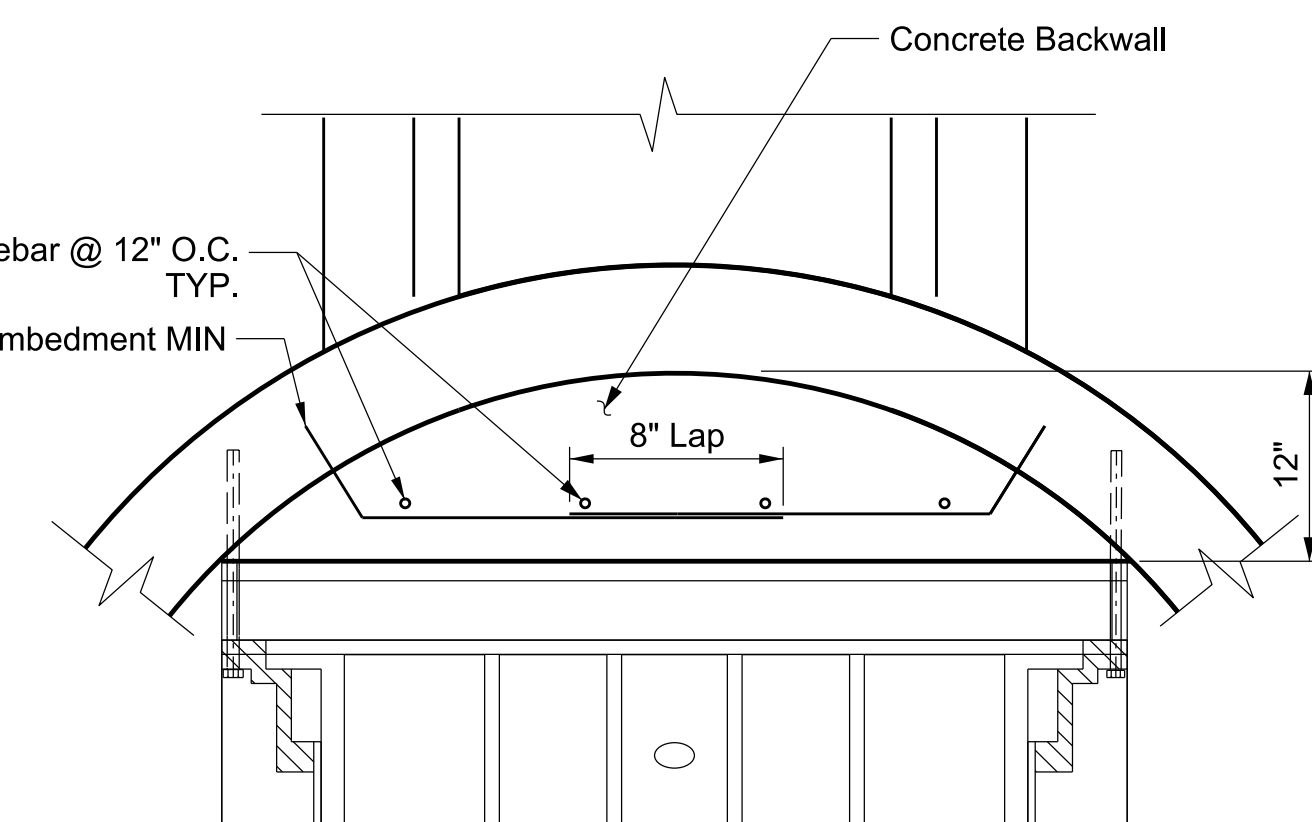
**NOTE: CONCRETE BACKWALL AND THIMBLE PLACEMENT TYPICAL AT ALL LOCATIONS WITH SLIDE GATE.**



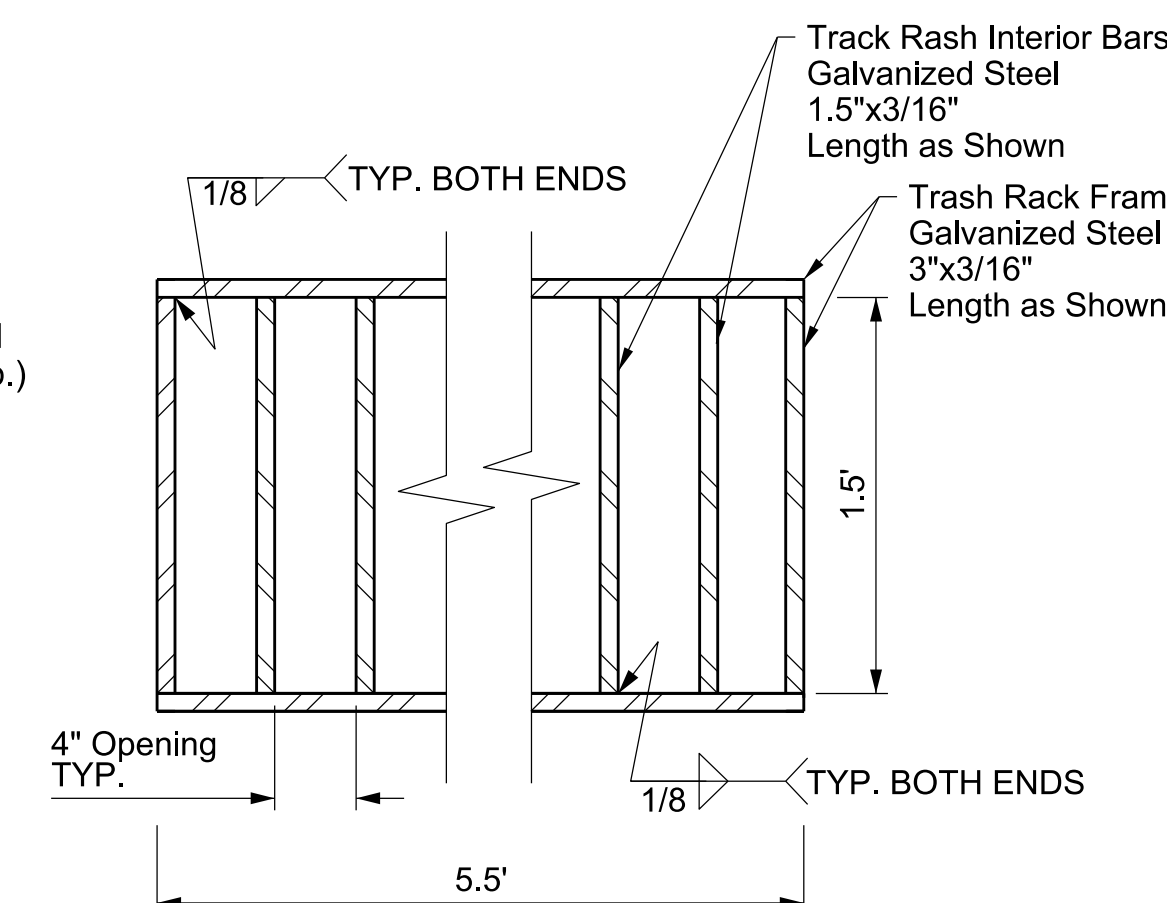
**DETAIL G**  
**REINFORCEMENT OF COVER FOR TRASH/SLIDE GATE MANHOLE**  
N.T.S.



**DETAIL A**  
N.T.S.



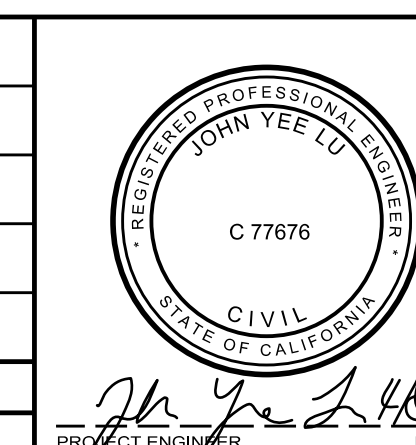
**SECTION B-B**  
**CONCRETE BACK WALL AND THIMBLE PLACEMENT**  
N.T.S.



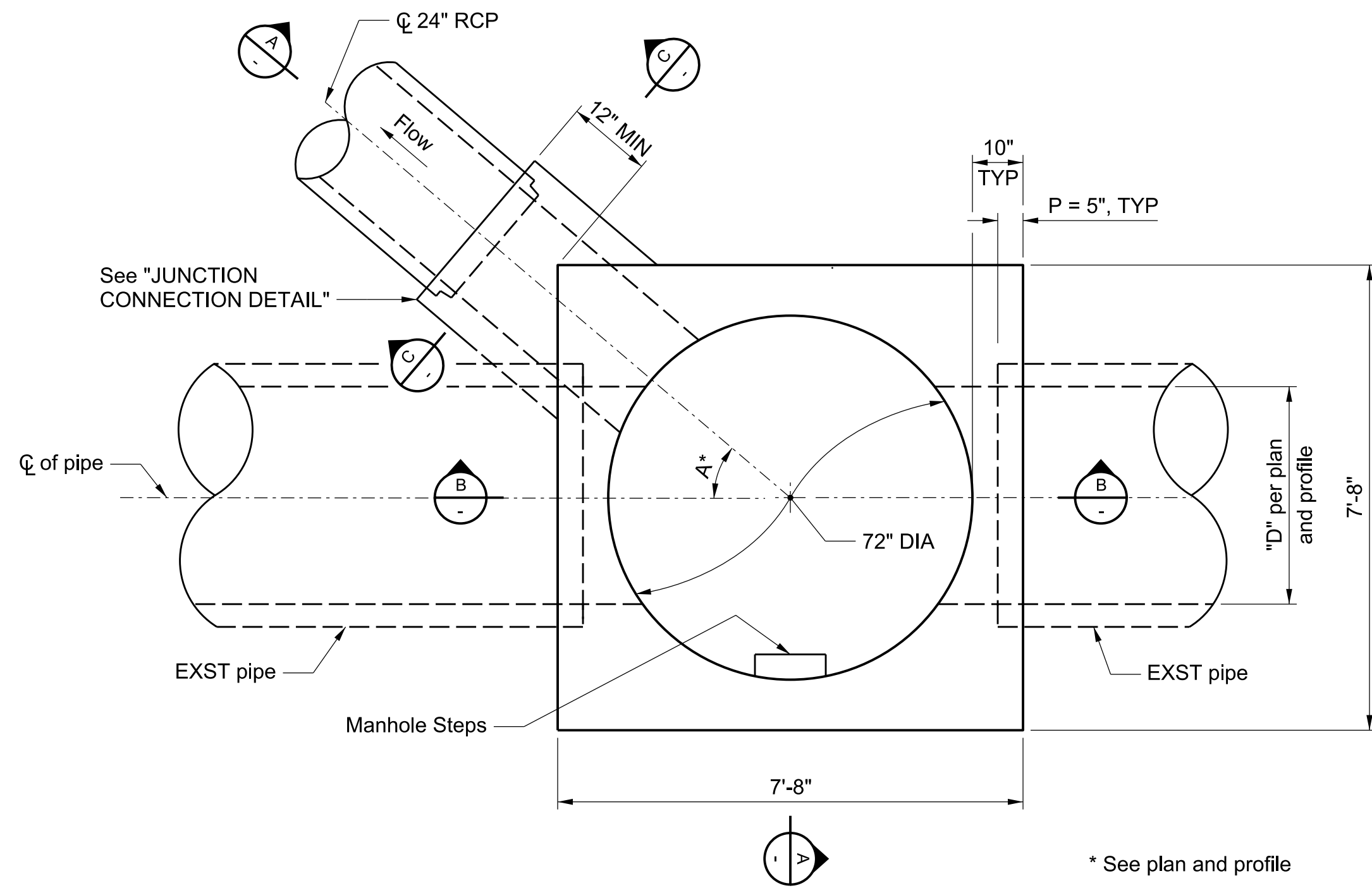
**GRATE ASSEMBLY DETAIL**  
N.T.S.

DATE: \_\_\_\_\_  
REVIEWED BY: \_\_\_\_\_  
CHECKER: S. GREGOWSKIE  
DESIGNER: J. LU  
DRAFTER: N. NGUYEN

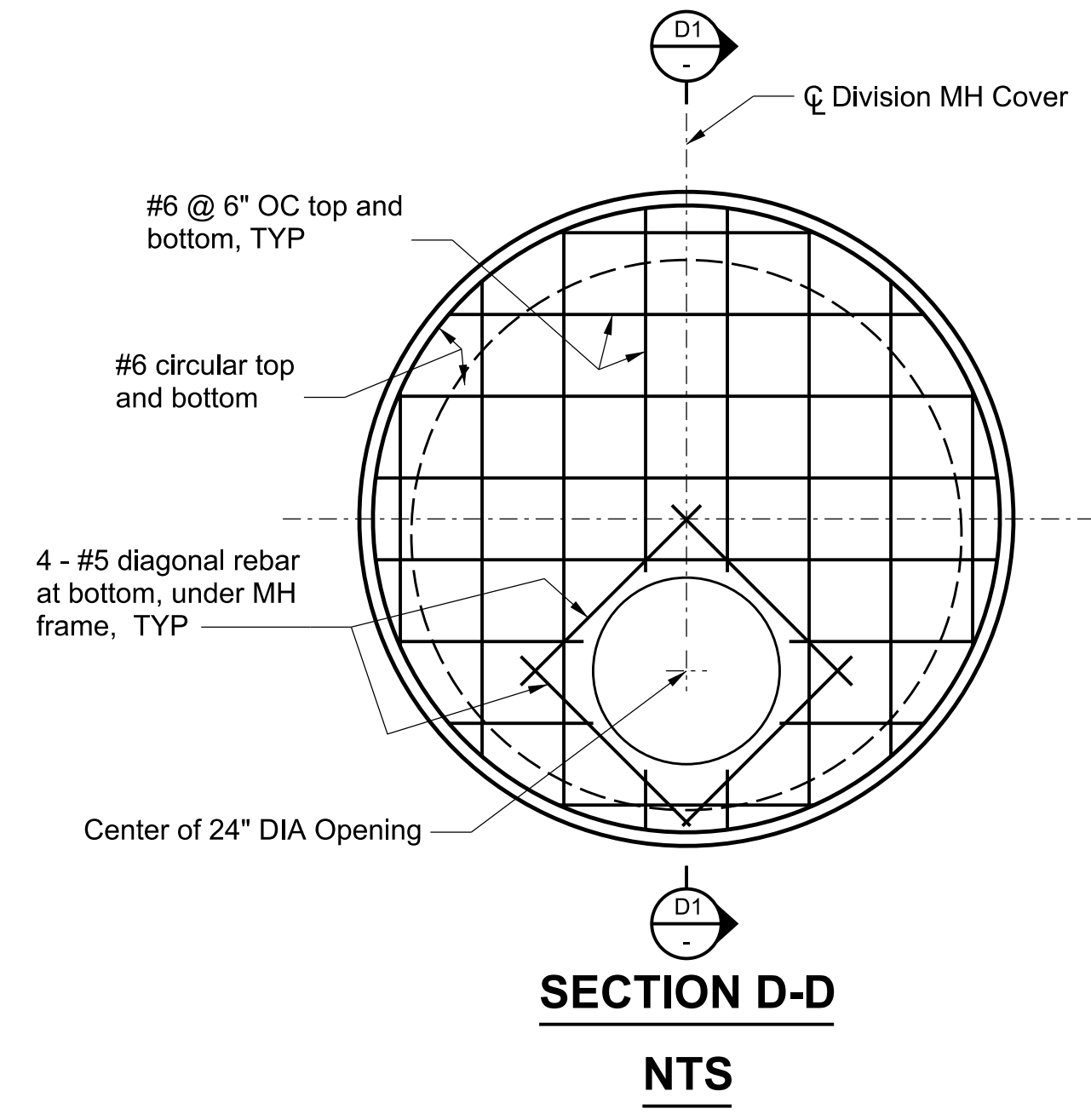
DATE	MK	DESCRIPTION



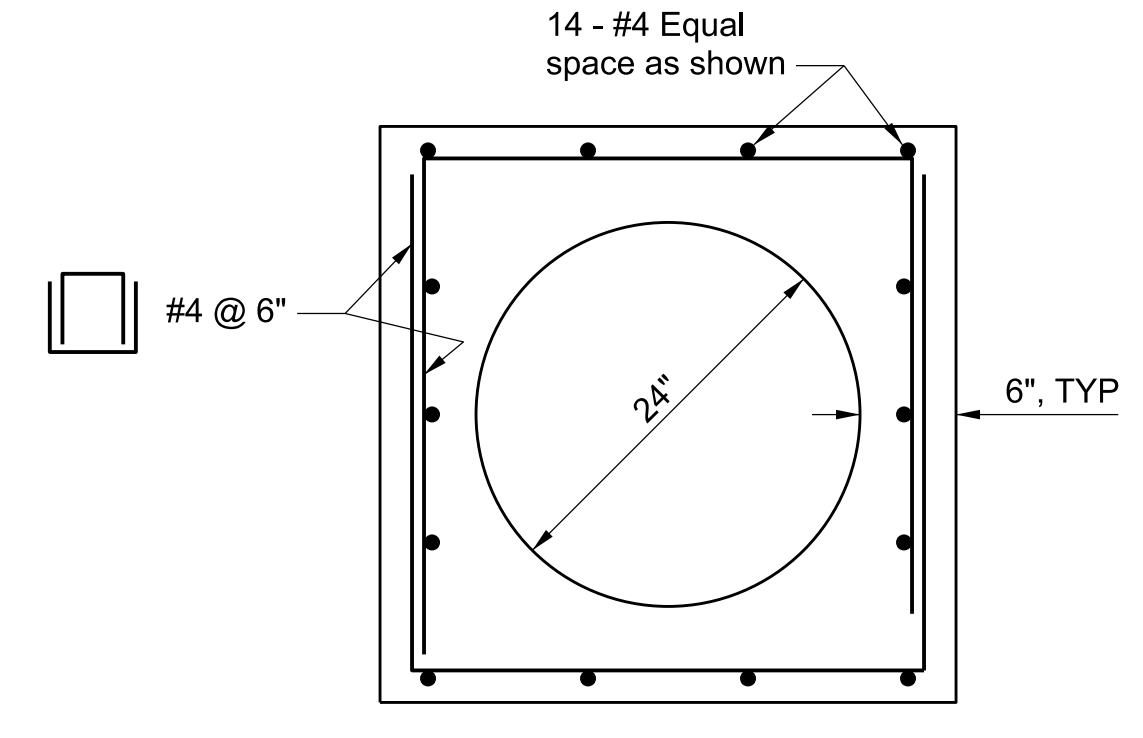
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
72" TRASH/SLIDE GATE MANHOLE STRUCTURAL DETAILS AND SECTIONS  
PIN WMD0000109 PCA F2181249 DWG SHEET 14 OF 63



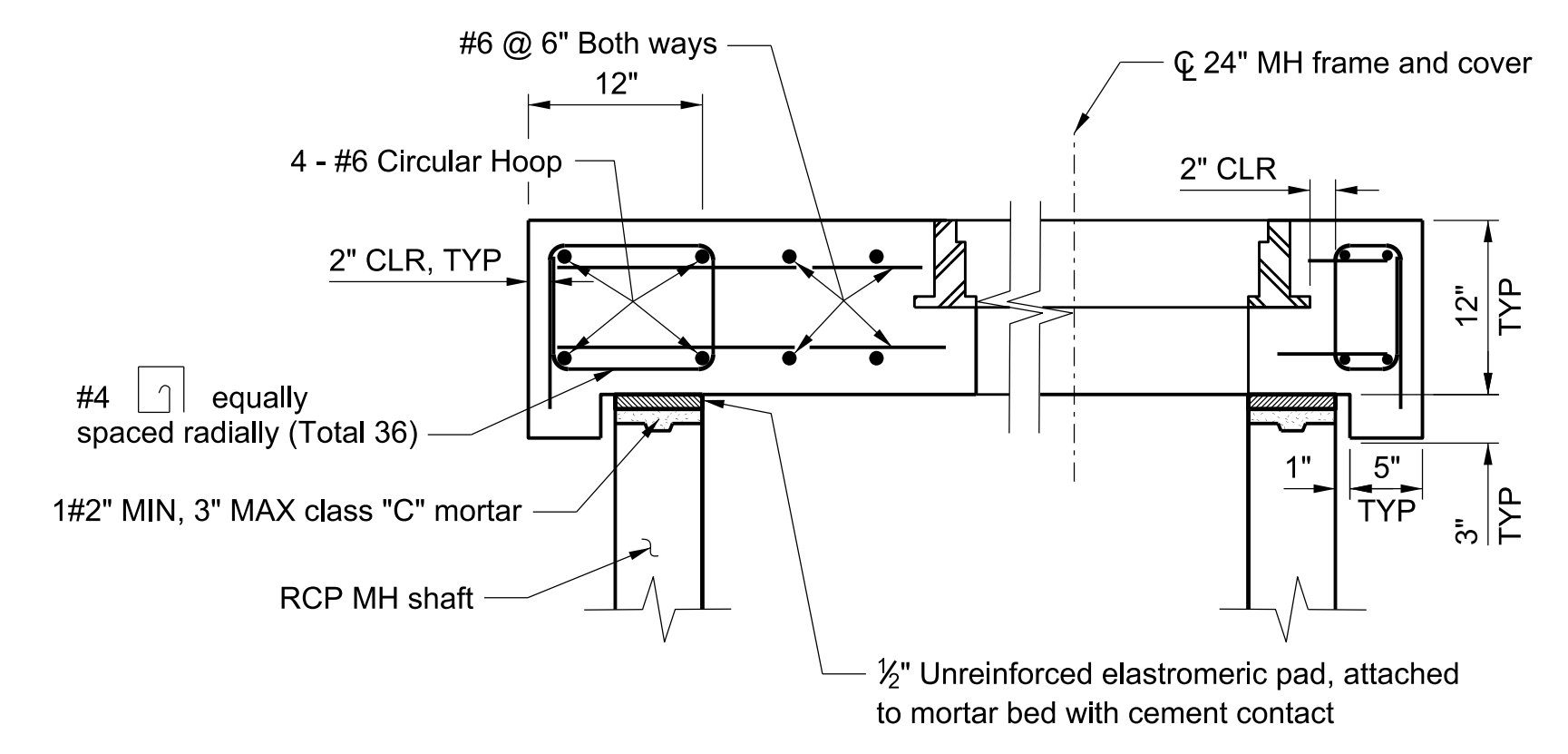
**PLAN VIEW FOR TYP. DIVERSION MANHOLE**  
SCALE 1/2"=1'



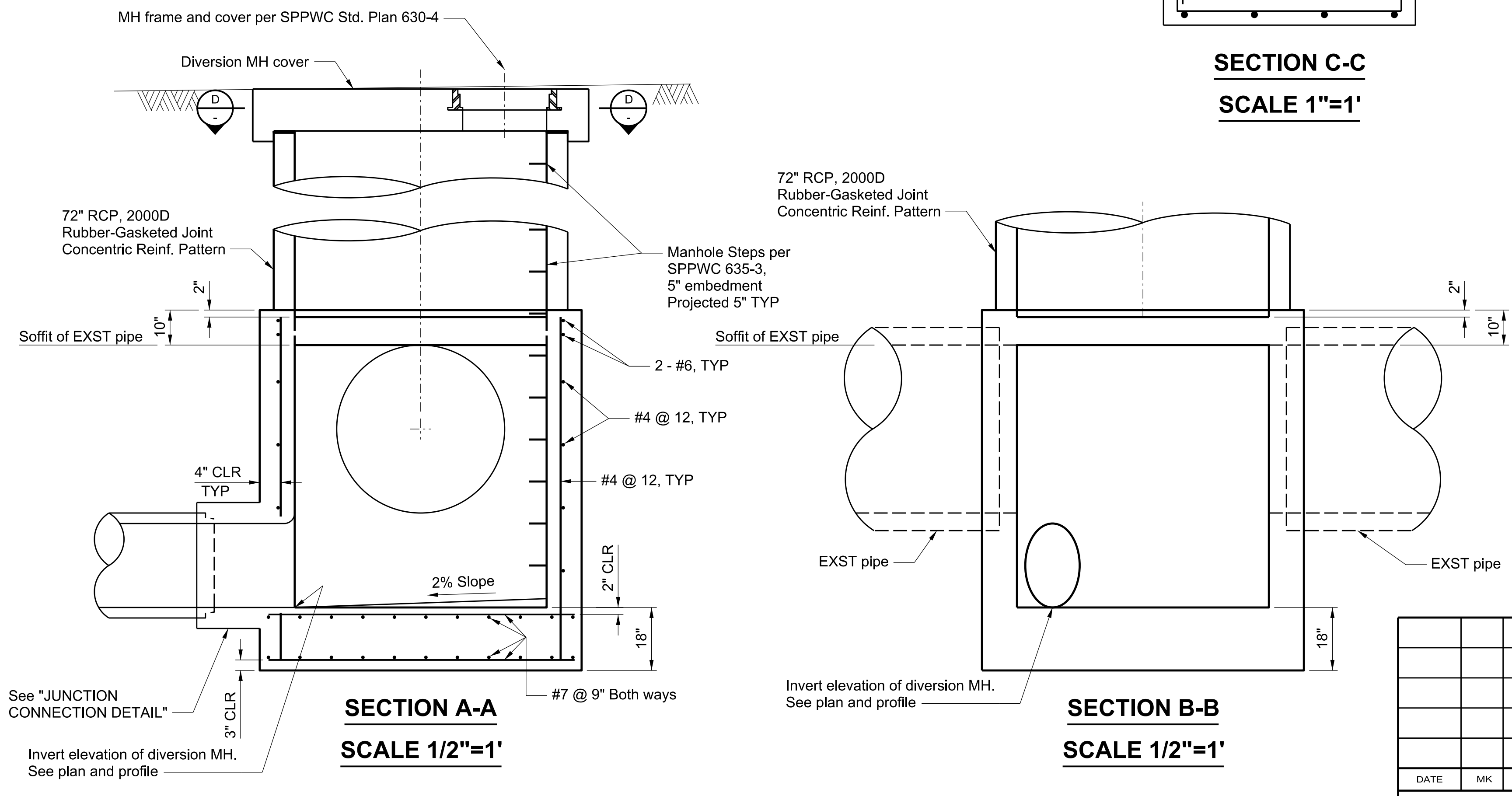
**SECTION D-D**  
NTS



**SECTION C-C**  
SCALE 1"=1'

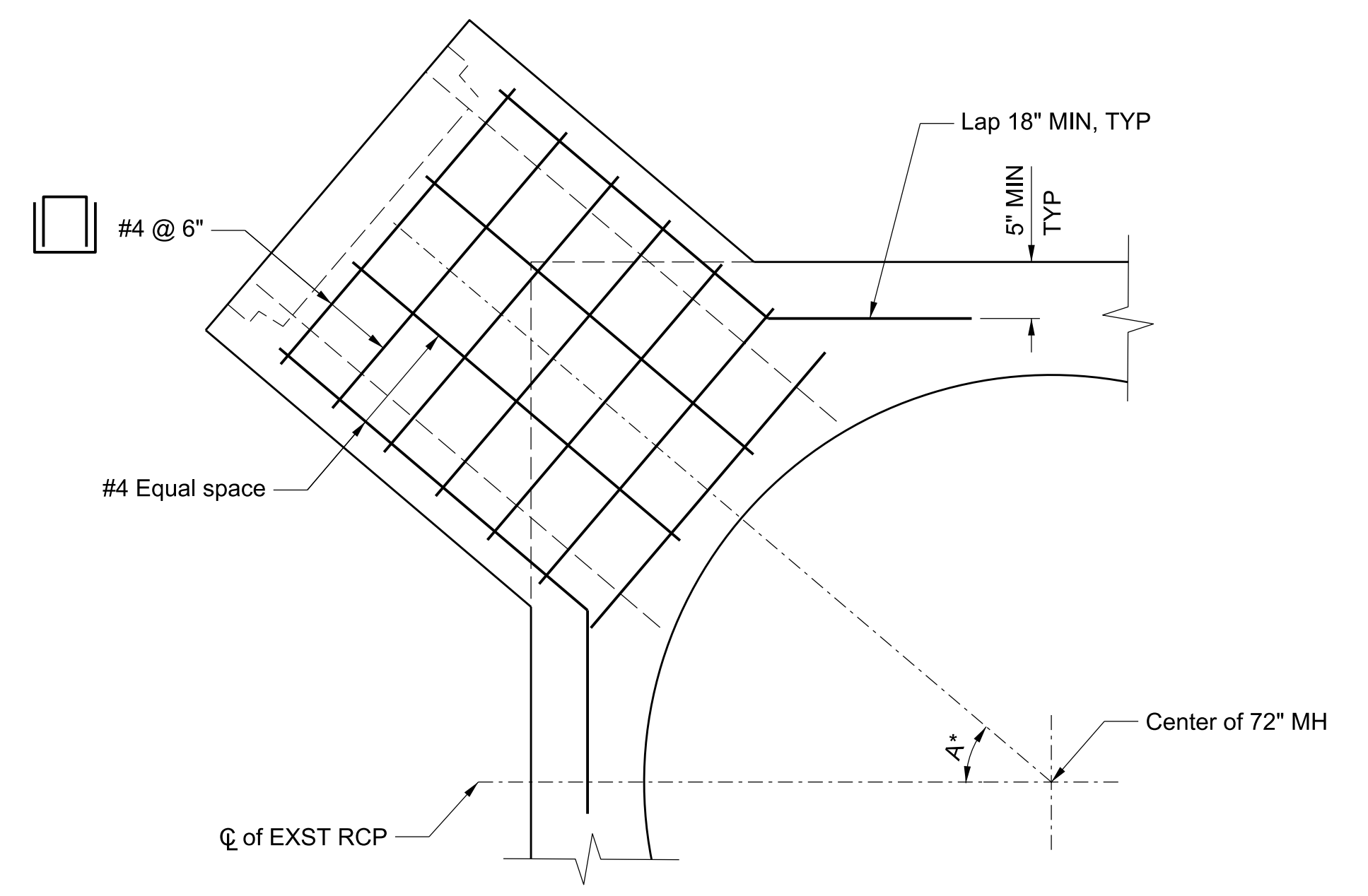


**SECTION D1-D1**  
NTS



**SECTION A-A**  
SCALE 1/2"=1'

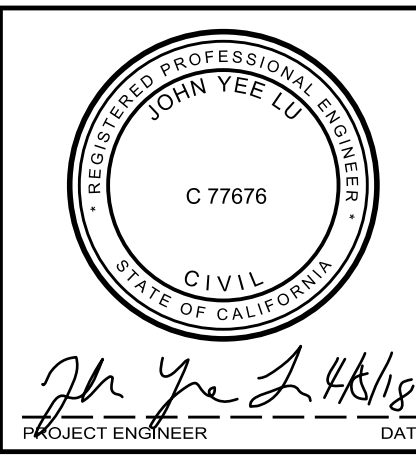
**SECTION B-B**  
SCALE 1/2"=1'



**JUNCTION CONNECTION DETAIL**  
SCALE 1"=1'

DATE	REVIEWED BY	CADD PROJECT FILE NAME	CHECKER	DESIGNER	DRAFTER
		WMD0000109	S. GREGOWSKIE	J. LU	N. NGUYEN

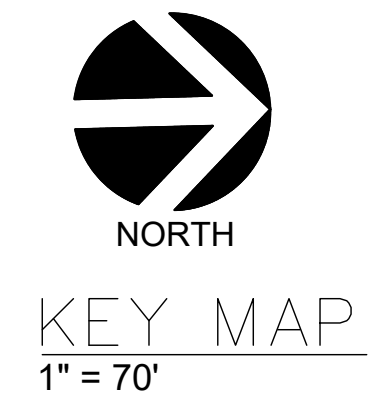
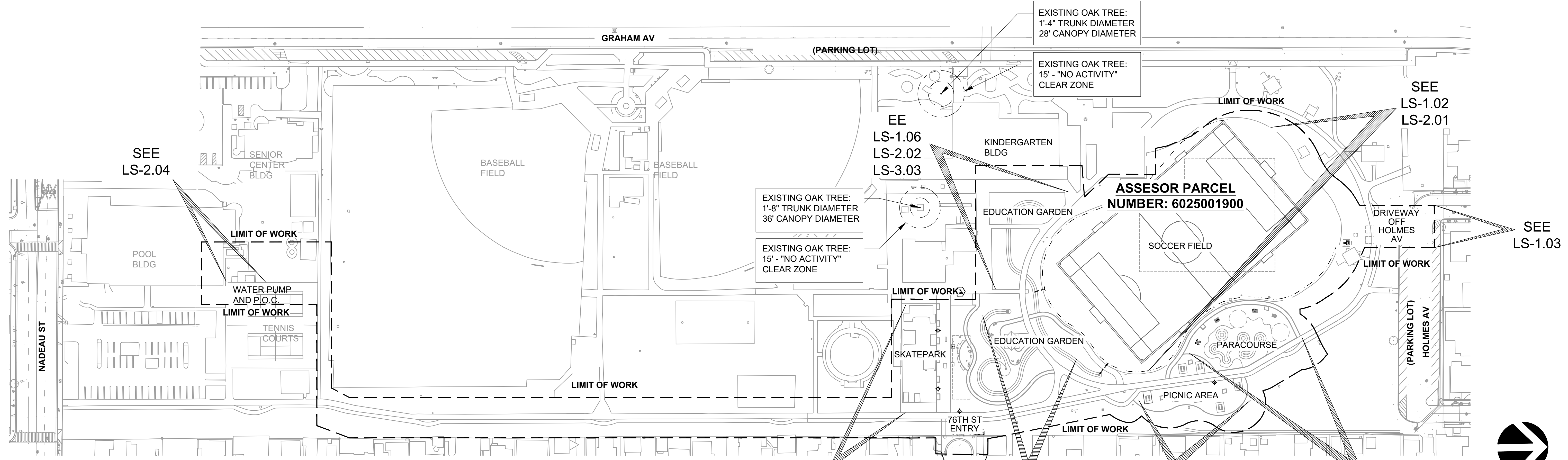
DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
 72" DIVERSION MANHOLE  
 STRUCTURAL DETAILS AND SECTIONS

PIN WMD0000109 PCA F2181249 DWG SHEET 15 OF 63





SYMBOLS			
	MANHOLE COVER		FIRE HYDRANT
	ROAD SIGN - SINGLE POST		TRAFFIC SIGNAL
	ROAD SIGN - DOUBLE POST		STREET LIGHT
	UTILITY POLE		TRAFFIC SIGNAL
	GUY WIRE		GUARD RAIL
	EXISTING WALL		EXISTING FENCE
	RIGHT OF WAY (COUNTY)		CITY / COUNTY BOUNDARY LINE
	ROAD CENTERLINE		

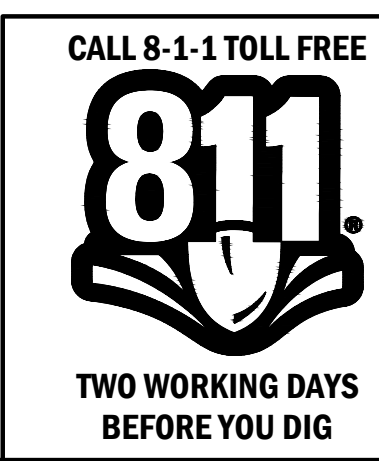
**ABBREVIATION / ACRONYM LEGEND**

AC	ASPHALTIC CONCRETE	E.A.	EACH EXPANSION JOINT	N	NORTH	SPEC.	SPECIFICATION
AD	AREA DRAIN	E.J.	ELEVATION	N.I.C.	NOT IN CONTRACT	SQ.	SQUARE
AGG.	AGGREGATE	ELEC.	ELECTRICAL	NO.	NUMBER	ST.	STREET
ALT.	ALTERNATIVE	EQ.	EQUAL, EQUALLY	NOM.	NOMINAL	SYM.	SYMBOL
ARCH.	ARCHITECT	E.Q.	EQUAL, EQUALLY	N.T.S.	NOT TO SCALE	T.	TREADS
ASPH.	ASPHALT	EQUIP.	EQUIPMENT	O.C.	ON CENTER	T.C.	TOP OF CURB
AVE.	AVENUE	CA.	GAUGE	O.D.	OUTSIDE DIAMETER	T.O.D.	TOP OF DRAIN
B.C.	BOTTOM OF CURB OR BEGINNING OF CURVE	GALV.	GALVANIZED	P.A.	PLANT AREA	TEL.	TELEPHONE
BLDG.	BUILDING	G.V.	GATE VALVE	P.B.	PULL BOX	TEMP.	TEMPORARY
BLVD.	BOULEVARD	G.W.	GUY WIRE	P.F.	PERFORATED	T.G.	TOP OF GRADE
B.M.	BENCH MARK	H.B.	HOSE BIBB	P.L.	PROPERTY LINE	T & G.	TONGUE AND GROOVE
B.W.	BOTH WAYS	HORIZ.	HORIZONTAL	P.LYWD.	PLYWOOD	T.P.	TOP OF PAVEMENT
C.B.	CATCH BASIN	H.P.	HIGH POINT	P.O.B.	POINT OF BEGINNING	T.W.	TOP OF WALL
C.J.	CONTROL JOINT	HT.	HEIGHT	P.O.C.	POINT OF CONNECTION	TYP.	TYPICAL
C.L.	CHAIN LINK	I.D.	INSIDE DIAMETER	P.P.	POWER POLE	U.O.N.	UNLESS OTHERWISE NOTED
CLR.	CLEAR	INV.	INVERT	P.P.C.	PREFABRICATED	U.P.R.R.	UNION PACIFIC RAILROAD
C.M.U.	CONCRETE MASONRY UNIT	IRR.	IRRIGATION	PREFAB.	PREFABRICATED	V.	VALVE
C.O.	CLEAN OUT	JT.	JOINT	PROP.	PROPERTY	V.B.	VALVE BOX
CONC.	CONCRETE	L.	LONG OR LENGTH	P.T.	PRESSURE TREATED	VERT.	VERTICAL
CONT.	CONTINUOUS, CONTINUED	LBS.	POUNDS	P.VMT.	PAVEMENT	V.I.F.	VERIFY IN FIELD
DEPT.	DEPARTMENT	L.O.W.	LIMIT OF WORK	Q.C.	QUICK COUPLER	VOL.	VOLUME
DET.	DETAIL	LT.	LIGHT	R.	RISERS OR RADIUS	W.	WEST OR WIDE
D.F.	DOUGLAS FIR	MAX.	MAXIMUM	RAD.	RADIUS	W/W.	WITH WOOD
D.G.	DECOMPOSED GRANITE	MECH.	MECHANICAL	R.C.V.	REMOTE CONTROL VALVE	WD.	WOOD
DIA.	DIAMETER	MFR.	MANUFACTURER	RD.	ROAD	W.H.	WEEP HOLE
DIM.	DIMENSION	M.H.	MANHOLE	REINF.	REINFORCED	W.I.	WROUGHT IRON
DPW.	DEPARTMENT OF PUBLIC WORKS	MIN.	MINIMUM	REV.	REVISED OR REVISION	W.M.	WATER METER
DWG.	DRAWING	MISC.	MISCELLANEOUS	R.O.W.	RIGHT OF WAY	WP.	WATERPROOF (ING)
DWP.	DEPARTMENT OF WATER AND POWER			RWD.	REDWOOD	WT.	WEIGHT
E.	EAST			S.	SOUTH	W.W.F.	WOVEN WIRE FABRIC
EXIST.	EXISTING			SCE.	SOUTHERN CALIFORNIA EDISON	W.W.M.	WELDED WIRE MESH

LANDSCAPE PLAN  
APPROVED  
For Water Efficient Landscape Ordinance Only  
APPROVED BY: [Signature] DATE: 4/10/2018  
CHECKED BY: [Signature] DATE: 4/10/2018  
COUNTY OF LOS ANGELES  
DEPARTMENT OF PUBLIC WORKS  
LAND DEVELOPMENT DIVISION

**EIMP2017000523**

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LS-1.00	CONSTRUCTION NOTES AND LEGEND
LS-1.01	CONSTRUCTION PLAN: TREE PROTECTION
LS-1.02	CONSTRUCTION PLAN: SOCCER FIELD LAYOUT
LS-1.03	CONSTRUCTION PLAN: PARACOURSE AND DRIVEWAY OFF HOLMES AV
LS-1.04	CONSTRUCTION PLAN: PICNIC AREA AND ACCESS OFF 76TH ST
LS-1.05	CONSTRUCTION PLAN: EDUCATION GARDEN
LS-1.06	CONSTRUCTION PLAN: EDUCATION GARDEN
LS-1.07	CONSTRUCTION PLAN: SKATE PARK
LS-1.08	CONSTRUCTION DETAILS
LS-1.09	CONSTRUCTION DETAILS
LS-1.010	CONSTRUCTION DETAILS
LS-2.00	IRRIGATION NOTES AND LEGEND
LS-2.01	IRRIGATION PLAN: SOCCER FIELD LAYOUT
LS-2.02	IRRIGATION PLAN
LS-2.03	IRRIGATION DETAILS
LS-2.04	IRRIGATION DETAILS
LS-3.00	PLANTING PLAN: PARACOURSE
LS-3.01	PLANTING PLAN: PICNIC AREA AND ACCESS OFF 76TH ST
LS-3.02	PLANTING PLAN: EDUCATION GARDEN
LS-3.03	PLANTING PLAN: EDUCATION GARDEN
LS-3.04	PLANTING NOTES, LEGEND, AND DETAILS



DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

LANDSCAPE IMPROVEMENTS

GENERAL PLAN

LS-0.00

DATE: 4/3/18

PROJ ID NO. PCA F21812149 SHEET 16 OF 63

**CONSTRUCTION MATERIAL LEGEND**

SYMBOL	NUMBER	DESCRIPTION	TYPE / MODEL NUMBER	SIZE	COLOR	FINISH	MANUFACTURER / NOTES	DETAIL
	1	SOCCER FIELD ARTIFICIAL TURF AND APPURTENANCES	ARTIFICIAL TURF PLAYING SURFACE BY ASTROTURF, ASTROTURF PLAY SERIES, OPTION ASTROPLAY DT MODEL: DT32; COMBINATION SHOCK PAD AND DRAINAGE BY BROCK, MODEL: POWER BASE YSR, REFER TO SPECIAL PROVISIONS	---	---	---	REFER TO SPECIAL PROVISIONS	DET (A)(B)(C) / LS-1.09
	2	4" CONCRETE PAVING	---	---	NATURAL GRAY CONCRETE	MEDIUM BROOM FINISH	---	DET (A)(B) / LS-1.08
	3	DECOMPOSED GRANITE PAVING	DECOMPOSED GRANITE (D.G.) PAVING W/BINDER/STABILIZER. NOTE, FOR AREAS DESIGNATED: (3)★ USE DECOMPOSED GRANITE WITHOUT BINDER/STABILIZER IN TREE WELLS. D.G. BY GAIL, REFER TO SPECIAL PROVISIONS	---	GOLDEN YELLOW	---	REFER TO SPECIAL PROVISIONS	DET (F) / LS-1.08
	4	ADA ACCOMMODATION (5' X 5') /COMPANION SEATING AREA	CONCRETE PAD, REFER TO GENERAL CONSTRUCTION / REMOVAL NOTES.	---	NATURAL GRAY CONCRETE	MEDIUM BROOM FINISH	---	DET (A)(B) / LS-1.08
	5	EXISTING BLEACHERS	CONTRACTOR TO RELOCATE TO LOCATION AS SHOWN PER PLAN.	---	---	---	---	DET (A)(B) / LS-1.08
	6	TREE WELL	CONCRETE HEADER, SIZE PER PLAN	6" X 12"	NATURAL GRAY CONCRETE	LIGHT BROOM FINISH	---	DET (C) / LS-1.08
	7	8" CONCRETE PAVING	---	---	NATURAL GRAY CONCRETE	MEDIUM BROOM FINISH	---	DET (A)(B) / LS-1.08
	8	RESILIENT PAVING SURFACE PLAY AREA	POUR IN PLACE RUBBER, BY GAME TIME, MODEL: GT IMPAX, REFER TO SPECIAL PROVISIONS	---	(3) COLORS: BLUE, GREEN, TERRA COTTA	---	REFER TO SPECIAL PROVISIONS	DET (A)(B) / LS-1.08
	9	CONCRETE HEADER	CONCRETE HEADER, SIZE PER PLAN	6" X 12"	NATURAL GRAY CONCRETE	LIGHT BROOM FINISH	---	DET (I) / LS-1.08
	10	PARACOURSE EQUIPMENT	BY GREENFIELDS, SEE MODELS ON LS-1.010	---	---	---	REFER TO SPECIAL PROVISIONS	REFER TO LS-1.010 & DET (G) / LS-1.08
	11	INTERPRETIVE SIGNAGE	ALUMINUM POST WITH 2'X3' EXTERIOR GRAPHIC PANEL - FUSED POLYCARBONATE (FPC), BY FOSSIL, REFER TO SPECIAL PROVISIONS; COLOR OF FRAME: BLACK.	2' X 3'	BLACK	---	REFER TO SPECIAL PROVISIONS	DET (H) / LS-1.08
	12	RIVER ROCK PAVING	RIVER ROCK PAVING, BY SOUTHWEST BOULDER, MODEL: SIERRA COBBLE, REFER TO SPECIAL PROVISIONS	6"-8" SIZED ROCK	WHITE W/BLACK STRIATA, GRANITIC ORIGIN	---	REFER TO SPECIAL PROVISIONS	DET (D) / LS-1.08
	13	OUTDOOR PICNIC TABLE	(13) CONCRETE PICNIC TABLE BY OUTDOOR CREATIONS, MODEL: #100SKLE W/INTEGRATED CAST ANTI-SKATE DETERRENTS, AND ANTI-GRAFFITI ((13) SAME AS ABOVE AND INCLUDE ADA OPTION), REFER TO GENERAL CONSTRUCTION / REMOVAL NOTES.	10' X 5.4'	SAND TAN	---	REFER TO SPECIAL PROVISIONS	SEE THIS SHEET
	14	PARK BENCH	CONCRETE BENCH BY OUTDOOR CREATIONS, MODEL: #408SKB W/INTEGRATED CAST ANTI-SKATE DETERRENTS AND CENTER ARMREST; ADA OPTION, AND ANTI-GRAFFITI, REFER TO GENERAL CONSTRUCTION / REMOVAL NOTES.	7' X 2'	SAND TAN	---	REFER TO SPECIAL PROVISIONS	SEE THIS SHEET
	15	8" STAMPED CONCRETE PAVING	STAMPED CONCRETE PAVING, PATTERN TO RESEMBLE ROUND (REAL) RIVER ROCKS, SIZE RANGES 4" X 5" TO 7" X 9". REFER TO GENERAL CONSTRUCTION / REMOVAL NOTES.	---	NATURAL GRAY CONCRETE	LIGHT BROOM FINISH	---	DET (A)(B) / LS-1.08
	16	4" INTEGRAL COLORED CONCRETE PAVING	INTEGRAL COLOR: C-20 LIMESTONE (LT. GREEN) BY CHROMIX ADMIXTURE BY SCOFIELD; AND COLORED SEALER BY L.M. SCOFIELD, REFER TO SPECIAL PROVISIONS	---	LT. GREEN	MEDIUM BROOM FINISH	REFER TO SPECIAL PROVISIONS	DET (A)(B) / LS-1.08
	17	EXISTING PAINTED METAL FENCE	REFER TO GENERAL CONSTRUCTION / REMOVAL NOTES, THIS SHEET	---	---	---	---	---
	18	ADA ACCESS TO SKATE PARK	REFER TO ADA PLAN.	---	---	---	---	---
	19	STAINLESS STEEL LASER CUT GRAPHIC	1/2" THICK STAINLESS STEEL	3' X 4'	---	---	---	DET (E) / LS-1.09
	20	VEGETATED BIO-SWALE	---	---	---	---	---	DET (E) / LS-1.08
	21	SKATE PARK	BY AMERICAN RAMPS, MODEL COMPONENTS PER LS-1.07 AND REFER TO GENERAL CONSTRUCTION / REMOVAL NOTES.	---	---	---	OR APPROVED EQUAL	SEE THIS SHEET AND LS-1.07
	22	4" DIA. PVC PERFORATED PIPE (CONNECT TO EXIST. CATCH BASIN)	PVC PERFORATED PIPE, ASTM D1785/D2665 SCH 80; PATTERN: ASTM F-758 / AASHTO M278	---	---	---	---	DET (I), SECTION B-B / LS-1.08
	23	MANHOLE COVER PER CIVIL PLANS	---	---	---	---	---	---
	24	EXISTING CONCRETE PAVING - TO REMAIN IN PLACE	---	---	---	---	---	---
	25	EXISTING DECOMPOSED GRANITE PAVING - TO REMAIN IN PLACE	---	---	---	---	---	---
	26	EXISTING CURB WITH FENCE - TO REMAIN IN PLACE	---	---	---	---	---	---
	27	EXISTING CATCH BASIN STRUCTURE - TO REMAIN IN PLACE	---	---	---	---	---	---
	28	EXISTING STRUCTURE / UTILITY - TO REMAIN IN PLACE	---	---	---	---	---	---
	29	UTILITY CABINET PER ELECTRICAL PLANS	REFER TO GENERAL CONSTRUCTION / REMOVAL NOTES.	---	---	---	---	---
	30	REMOVABLE LOCKING BOLLARD	BOLLARD BY COLUMBIA, MODEL: 2190-RH, REFER TO SPECIAL PROVISIONS AND REFER TO GENERAL CONSTRUCTION / REMOVAL NOTES.	---	GREEN	---	---	---
	31	DRINKING FOUNTAIN	DRINKING FOUNTAIN BY HAW'S, MODEL 3300, REFER TO GENERAL CONSTRUCTION / REMOVAL NOTES.	---	GREEN	---	OR APPROVED EQUAL	SEE THIS SHEET AND LS-1.05
	32	SOCCER FIELD DRAIN	REFER TO LS-1.02 & LS-1.09	---	---	---	---	---
	33	DECORATIVE BOULDERS	DECORATIVE BOULDERS, BY SOUTHWEST BOULDER, MODEL: SIERRA BOULDERS, REFER TO SPECIAL PROVISIONS	24" X 36" SIZED ROCK	WHITE W/BLACK STRIATA, GRANITIC ORIGIN	---	REFER TO SPECIAL PROVISIONS	---
	34	4" DIA. PVC PERFORATED PIPE CULVERT	PVC PERFORATED PIPE, ASTM D1785/D2665 SCH 80; PATTERN: ASTM F-758 / AASHTO M278	---	---	---	ALIGN INVERT OF CULVERT TO MATCH ELEVATION OF CENTER LINE OF SWALE	---
	35	EXISTING CONC. PAVING AT SKATE PARK, REMOVE AND REPLACE	---	---	---	---	---	DET (A)(B)(C) / LS-1.08
	36	EXISTING ACCESS GATE - TO REMAIN IN PLACE	---	---	---	---	---	---
	37	30" X 48" CLEAR FLOOR PER 11B-305 FOR : 11B-602 DRINKING FOUNTAINS	---	---	---	---	---	---
	38	30" X 48" CLEAR FLOOR PER 11B-305 FOR : 11B-902 DINING SURFACE	---	---	---	---	---	---

**GENERAL CONSTRUCTION AND REMOVAL NOTES:**

- THE CONTRACTOR SHALL LAY OUT FLATWORK FORMS, MARK LOCATIONS FOR SITE IMPROVEMENTS, AND OBTAIN APPROVAL FROM THE ENGINEER FOR PRIOR TO COMMENCEMENT OF WORK.
- ALL SURVEY MONUMENTS, FIELD MARKINGS, AND CONTROL POINTS SHALL BE PROTECTED IN PLACE.
- ALL SITE FURNISHINGS SHALL BE SURFACE MOUNTED ON CONCRETE PADS AS SHOWN AND PER MANUFACTURER'S RECOMMENDATIONS USING VANDAL/TAMPER PROOF STAINLESS STEEL HARDWARE. AFTER APPROVAL FROM THE INSPECTOR, SECURE ALL ANCHOR BOLTS BY TACK WELDING.
- SAW CUT AND DEMOLISH EXISTING CONCRETE AS DESIGNATED PER PLAN.
- DEMOLISH EXISTING CMU COOK/PREP WALL AND SEAT AS DESIGNATED PER CIVIL DEMO PLAN. PATCH WITH CONCRETE (520-C-2500 PER SSPWC) TO MATCH EXISTING ADJACENT CONCRETE SURFACE, REFER TO PAVING DETAILS A,B,LS-1.08
- COORDINATION WITH LA COUNTY DEPARTMENT OF PARKS AND RECREATION (DPR) REPRESENTATIVE IS NEEDED FOR SPECIFIC EXISTING EQUIPMENT IDENTIFIED ON THE PLANS TO SALVAGE. CONTACT JOSE A. CAPRILE, PARK PROJECT COORDINATOR AT: (626) 588-5315. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING EQUIPMENT WITH A MINIMUM OF (2) WEEKS PRIOR NOTICE TO PERFORMANCE OF WORK.
- ARTIFICIAL TURF:
  - USE OF THE TERMS "ARTIFICIAL TURF" OR "SYNTHETIC TURF" ARE INTERCHANGEABLE AND DEFINE A MANUFACTURED PLAYING SURFACE AS OPPOSED TO LIVING PLANT MATERIAL COMMONLY REFERRED TO AS "TURF".
  - CONTRACTOR SHALL FURNISH AND INSTALL ARTIFICIAL TURF PLAYING SURFACE MATERIAL, ARTIFICIAL TURF COMBINATION SHOCK PAD AND DRAINAGE MATERIAL, AND ALL APPURTENANCES PER PLANS, REFER TO SPECIAL PROVISIONS.
  - SYNTHETIC TURF SHALL BE INSTALLED AFTER THE PROPOSED IRRIGATION SYSTEM IS INSTALLED TO THE TREES, REFER TO IRRIGATION PLANS.
  - CONTRACTOR SHALL
- PARACOURSE. INSTALL PARACOURSE EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS USING STAINLESS STEEL VANDAL/TAMPER PROOF HARDWARE ON CONCRETE PAD PER PLAN.
- REMOVABLE LOCKING BOLLARD WITH FOOTING PER MANUFACTURER'S RECOMMENDATIONS USING STAINLESS STEEL VANDAL/TAMPER PROOF HARDWARE ON CONCRETE PAD PER PLAN.
- INTERPRETIVE SIGNAGE.
  - ARTWORK WILL BE PROVIDED BY THE AGENCY AS A FILE IN JPG, ILLUSTRATOR, OR PHOTOSHOP DIGITAL FORMAT. SIGN AND GRAPHIC PANEL SHALL BE FABRICATED AND INSTALLED BY THE CONTRACTOR.
  - CONTRACTOR TO PROVIDE SHOP DRAWING FOR REVIEW AND APPROVAL BY THE AGENCY PRIOR TO FABRICATION AND INSTALLATION. CONTRACTOR SHALL ALSO PROVIDE A 8" X 8" SAMPLE ON THE PANEL MATERIAL (SEE BELOW FOR MATERIAL DESCRIPTION OF PANEL) SHOWING A PORTION OF THE COLORED ARTWORK GRAPHIC, THAT WAS PROVIDED BY THE AGENCY TO THE CONTRACTOR, FOR REVIEW BY THE AGENCY PRIOR TO FINAL FABRICATION AND INSTALLATION.
  - FRAME MATERIAL. ALL METAL AND WELD JOINTS TO BE POWDERCOAT FINISHED, COLOR AND MATERIAL PER CONSTRUCTION MATERIAL LEGEND.
  - PANEL MATERIAL. THE PANEL SHALL BE FUSED POLYCARBONATE. VINYL INKJET PRINT FUSED BETWEEN TWO SHEETS OF UV RESISTANT POLYCARBONATE (FPCS).
- CONTRACTOR SHALL STRIP AND PREP EXISTING PAINT ON PERIMETER FENCE AND GATE AROUND SKATE PARK. CONTRACTOR SHALL PAINT THE SKATE PARK'S PERIMETER FENCE COLOR TO BE GREEN TO MATCH EXISTING, PREP AND PAINT PER 310 OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- CONTRACTOR SHALL INSTALL STAMPED CONCRETE PAVING, PATTERN SIZE PER CONSTRUCTION MATERIAL LEGEND AND LAYOUT PER PLANS.
  - CONTRACTOR SHALL SUBMIT MANUFACTURER AND MODEL INFORMATION FOR REVIEW AND APPROVAL PRIOR TO PROVIDING MOCK-UP SAMPLE.
  - CONTRACTOR SHALL CONSTRUCT A MOCK-UP SAMPLE OF THE PLACEMENT OF TYPICAL STAMPED CONCRETE PAVING FOR REVIEW AND APPROVAL BY THE ENGINEER. SAMPLE SHALL BE LOCATED ON-SITE FOR REVIEW AND COMPARISON TO FINAL WORK. ALL STAMPED CONCRETE PAVING SHALL NOT BE PLACED ON THE PROJECT PRIOR TO APPROVAL OF THE SAMPLE BY THE ENGINEER.
  - CONTRACTOR SHALL INSTALL TOOLED SCORE JOINT PER DETAIL A/LS-1.08, AND PER RADIAL DESIGN PATTERN SHOWN ON PLANS.
- REFER TO CIVIL PLANS FOR UTILITY CABINET. CLEARANCE FOR ACCESS TO UTILITY CABINET MUST BE PRESERVED. LAYOUT PROPOSED FOUNDATION AND OBTAIN APPROVAL BEFORE INSTALLATION OF FOOTING FOR STAINLESS STEEL LASER CUT GRAPHIC.
- INSTALL IN-GROUND MOUNT FOR NEW DRINKING FOUNTAIN PER MANUFACTURER AND MODEL LISTED IN CONSTRUCTION LEGEND AND PER MANUFACTURER'S REQUIREMENTS.
  - THE EXISTING DRINKING FOUNTAIN IS SUBJECT TO SALVAGE BY THE DEPARTMENT OF PARKS AND RECREATION (DPR). CONTACT DPR REPRESENTATIVE, IDENTIFIED ABOVE, (2) WEEKS PRIOR TO REMOVAL OF EXISTING DRINKING FOUNTAIN FOR COORDINATION OF TURNOVER. THE CONTRACTOR SHALL REMOVE AND SALVAGE ON-SITE, EXISTING DRINKING FOUNTAIN AND EQUIPMENT IDENTIFIED BY THE DPR REPRESENTATIVE.
  - RECONNECT NEW DRINKING FOUNTAIN TO EXISTING SUPPLY LINE AND EXISTING CATCH BASIN PER BUILDING CODE.
- AMERICAN WITH DISABILITIES ACT (ADA) REQUIREMENTS SHALL BE MET PER THE LATEST VERSION OF THE 2016 LOS ANGELES COUNTY BUILDING CODE. THE WORK SHALL CONFORM TO ALL APPLICABLE CODES RELATED TO ADA REQUIREMENTS, A PARTIAL LIST INCLUDES: ADA COMPANION SEATING.
  - SHALL CONFORM WITH ALL REQUIREMENTS PER 2016 CALIFORNIA BUILDING CODE, CHAPTER 11B-221.3; 11B-305; 11B-602; 11B-802.1; 11B-902, AND THE FOLLOWING:
  - ACCOMMODATION SEATING AREA IN SOCCER SPORTS FIELD SHALL HAVE SYMBOL AND PAINT STRIPING.
  - ALL PARK AMENITY IMPROVEMENTS SUCH AS DRINKING FOUNTAINS, BENCHES, AND PICNIC TABLES SHALL HAVE FEATURES TO MEET THE BUILDING CODE INCLUDING ANY AND ALL MARKINGS SUCH AS ADDED SYMBOLS AND PAINT STRIPING.
  - ALL PARACOURSE EXERCISE EQUIPMENT SHALL ALLOW 48 INCHES MIN. BARRIER-FREE ACCESS AND TRANSFER AREA.
- CONTRACTOR SHALL MAINTAIN AN ACCURATE "AS-BUILT" RECORD SET OF PLANS FOR ALL WORK PERFORMED UNDER THIS CONTRACT. THESE "AS-BUILT" PLANS SHALL SHOW ALL CHANGES MADE TO THE ORIGINAL PLANS AND SPECIFICATIONS, INCLUDING EXACT "AS-BUILT" LOCATIONS, SIZES AND KINDS OF EQUIPMENT/MATERIALS PROVIDED. THE FINAL "AS-BUILT" RECORD SET OF PLANS SHALL BE SUBMITTED TO THE AGENCY AT THE COMPLETION OF WORK, PRIOR TO THE START OF THE PLANT ESTABLISHMENT PERIOD.

NOTES: THESE CALLOUTS APPLY TO PLAN LS, CONSTRUCTION PLAN SERIES.

PROJECT DATE: 9/22/2018

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DATE	MK	DESCRIPTION

FRANKLYN CHUNG, REGISTERED PROFESSIONAL ENGINEER, LICENSE NO. 51332, STATE OF CALIFORNIA

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

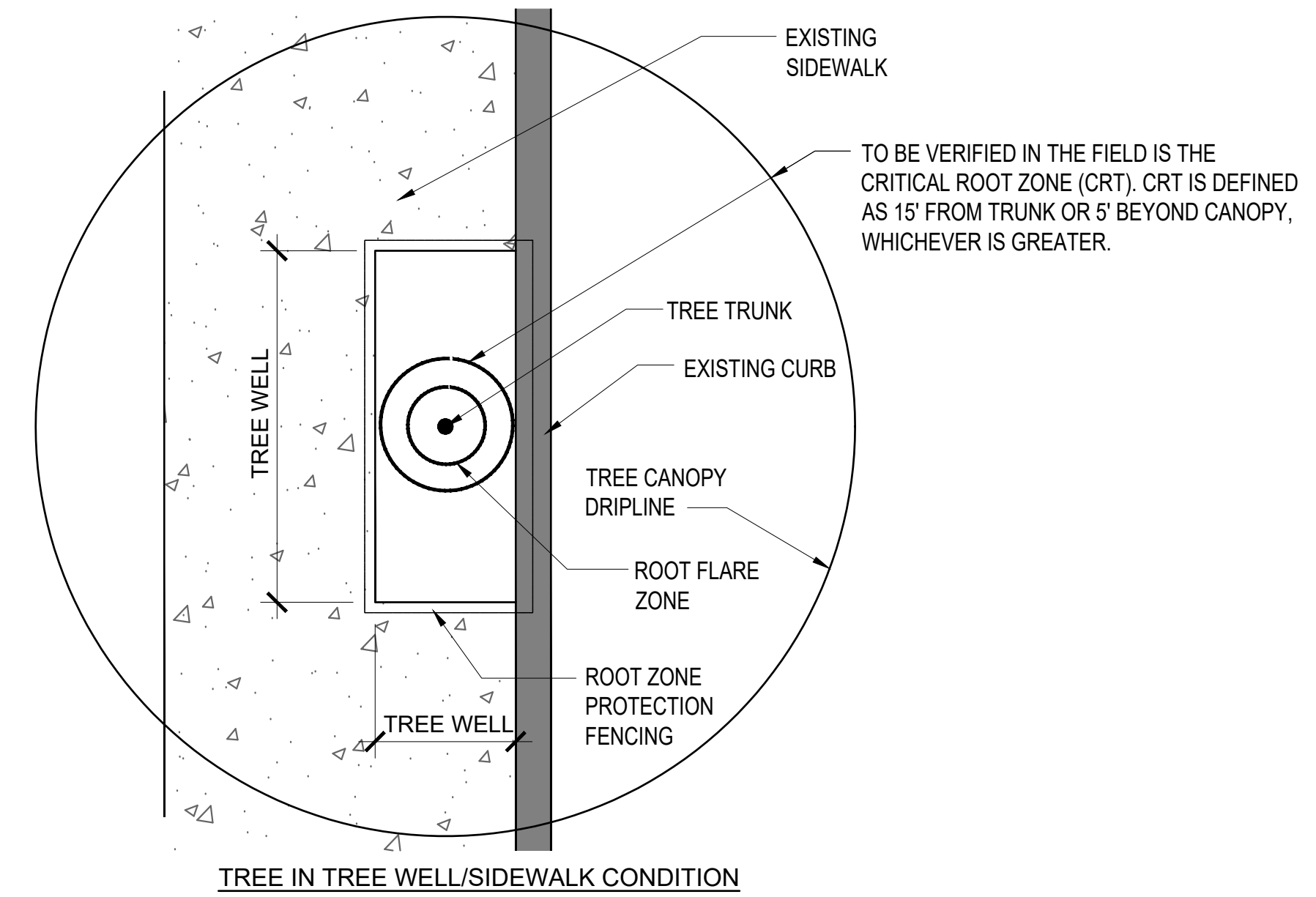
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT LANDSCAPE IMPROVEMENTS**

CONSTRUCTION NOTES & LEGEND

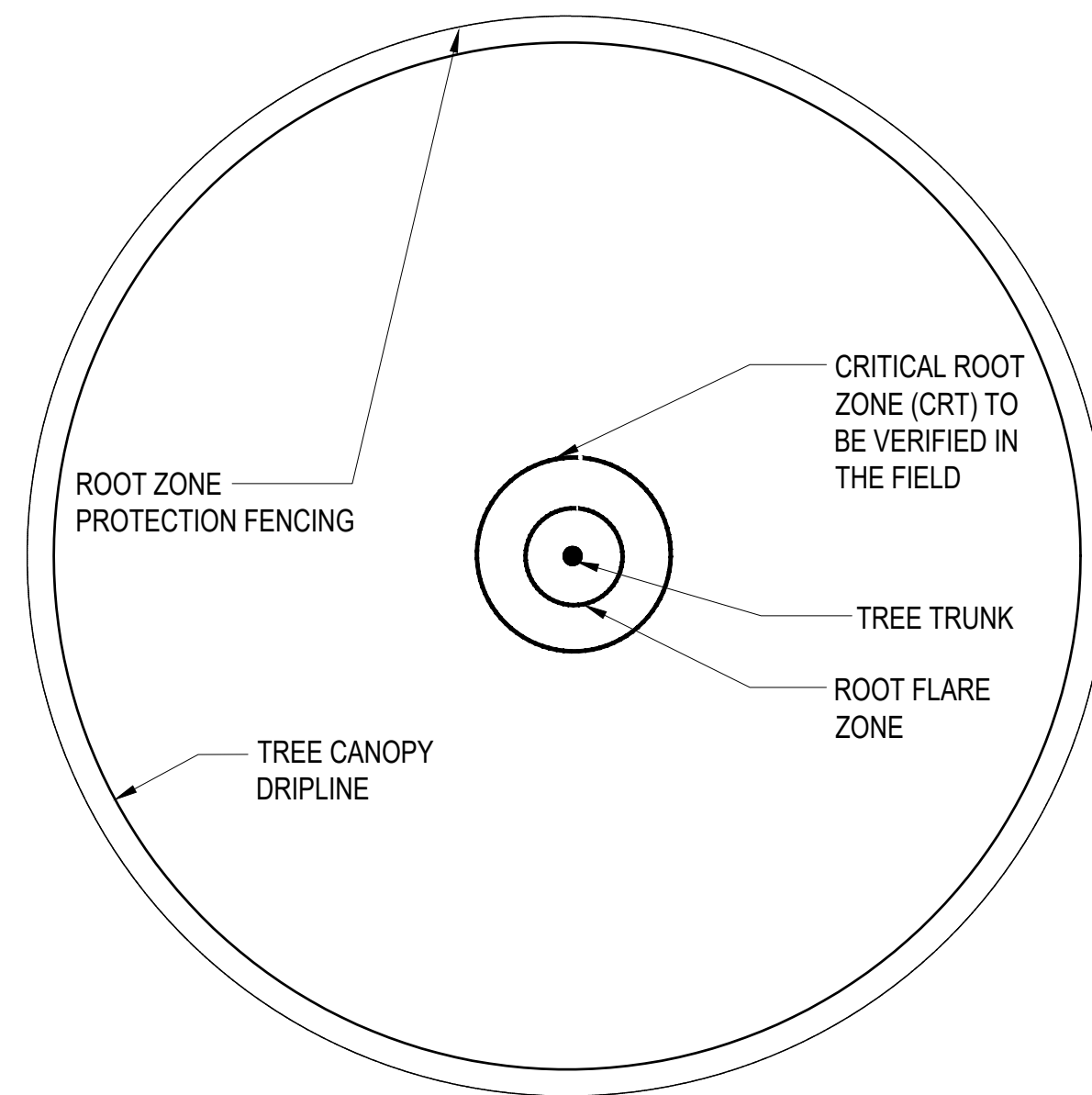
PROJ ID NO. PCA F21812149 SHEET 17 OF 63

**TREE PROTECTION NOTES:**

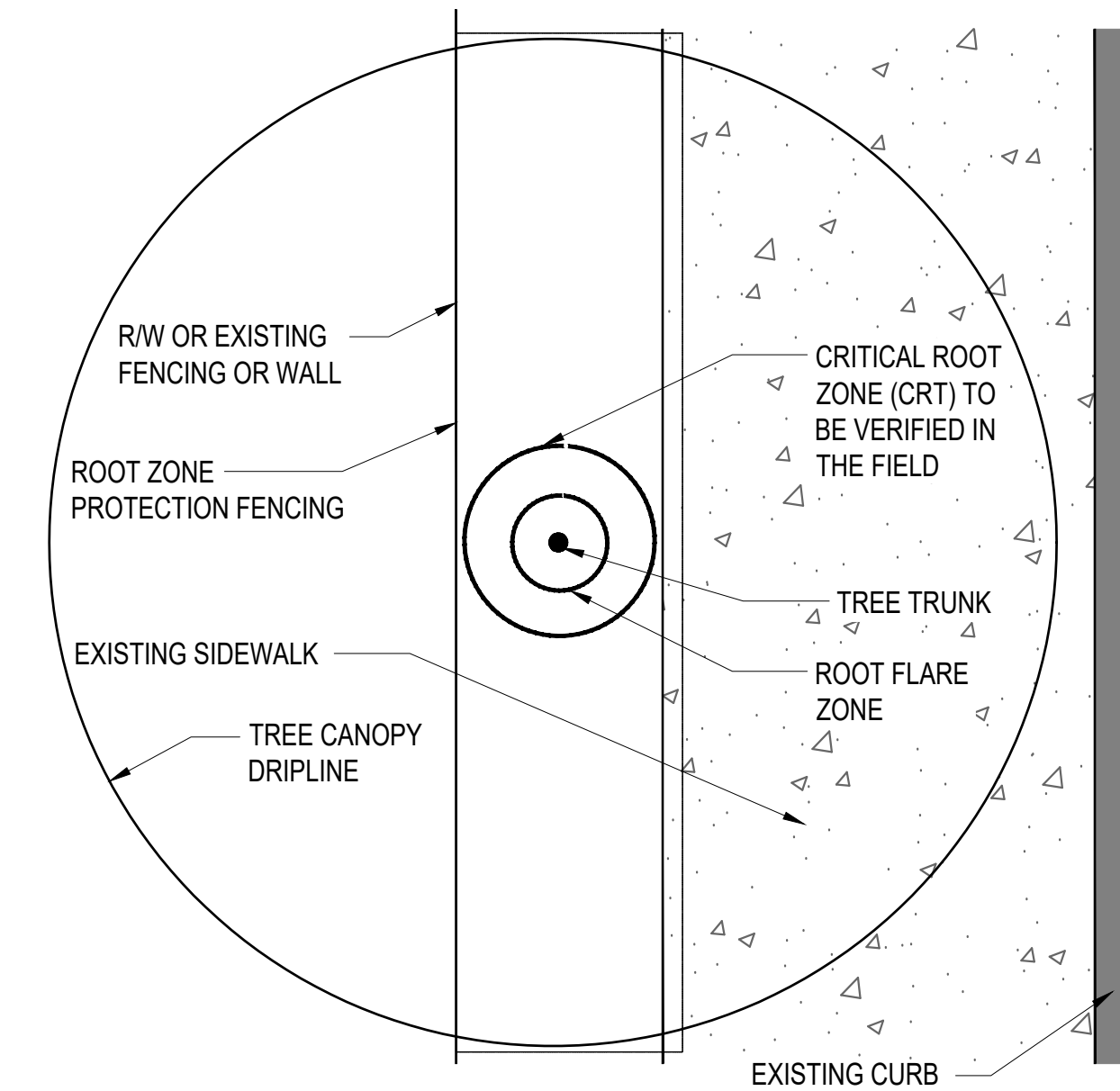
1. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING TREES FROM DAMAGE OR DEATH. PROTECTION SHALL BE GIVEN TO THE ROOTS, TRUNK, AND FOLIAGE OF ALL EXISTING TREES TO REMAIN.
2. THE AREA OF TREE ROOT PROTECTION (OR TREE PROTECTION ZONE) IS WITHIN THE DRIP LINE OF THE TREE. ROOT PRUNING SHALL BE IN COMPLIANCE WITH ANSI A300 GUIDELINES AND ARBORICULTURAL PRACTICE. WHERE TRENCHING WITHIN THE AREA OF TREE ROOT PROTECTION IS UNAVOIDABLE, THE ENGINEER MAY REQUIRE TRENCHING ALTERNATIVES SUCH AS BORING BELOW THE TREE ROOTS.
3. ANY DAMAGE TO TREES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE AGENCY WILL DETERMINE THE REPLACEMENT VALUE.
4. BIRD NESTING SEASON IS FROM FEBRUARY 1 TO AUGUST 31. IF CONSTRUCTION OCCURS WITHIN THE PERIOD, BREEDING BIRD SURVEYS SHALL BE CONDUCTED PER THE DEPARTMENT OF FISH AND WILDLIFE GUIDELINE.
5. IF AN ACTIVE NATIVE BIRD SPECIES NEST IS LOCATED, CONSTRUCTION WITHIN 300 FEET OR 500 FEET FOR RAPTOR NESTS SHALL BE POSTPONED OR MODIFIED IN CONSULTATION WITH THE QUALIFIED BIOLOGIST UNTIL THE NEST IS VACATED, JUVENILES HAVE FLEDGED, AND THERE IS NO EVIDENCE OF A SECOND ATTEMPT AT NESTING.
6. DO NOT NAIL GRADE STAKES OR ANYTHING ELSE TO TREES.
7. NO EQUIPMENT IS TO BE OPERATED OR PARKED UNDER A TREE, NOR IS ANY MATERIAL TO BE STORED WITHIN THE DRIPLINE.
8. DO NOT STRIP TOPSOIL AROUND TREES. ANY VEGETATION TO BE REMOVED SHOULD BE REMOVED BY CUTTING AT GROUND LEVEL RATHER THAN PULLING OUT BY EQUIPMENT.
9. SHRUBS SHALL NOT BE PLANTED WITHIN ROOT FLARE ZONE.
10. PROTECTIVE FENCE SHALL BE MIN. 4' HIGH, STURDY AND VISIBLE. ERECT PROTECTION FENCING: HIGH DENSITY POLYETHYLENE WITH 3.5" X 1.5" OPENINGS; COLOR: ORANGE. USE 2" X 6" STEEL POSTS INSTALLED AT 8' ON CENTER AROUND TREES THAT ARE INDICATED TO REMAIN. PLACE A SIGN EVERY 50'. (3) SIGNS AT EACH TREE MINIMUM, ALONG FENCE THAT READS, "KEEP OUT TREE PROTECTION AREA" CENTER JUSTIFIED AND IN LARGE LETTERS. SIGN SHALL BE 8.5" BY 11" HERMETICALLY SEALED BETWEEN (2) PIECES OF PLASTIC, EACH PIECE BEING A MINIMUM OF 20 MILS THICK LAMINATED IN PLASTIC. MAINTAIN MINIMUM CLEARANCE OF SIX INCHES OUTSIDE DRIP LINE OF SUCH TREES EXCEPT FOR TREES WITHIN SIDEWALKS OF PUBLIC RIGHT-OF-WAY AND/OR WHEN WORK HAS TO BE PERFORMED WITHIN THE AREA OF TREE ROOT PROTECTION. WITHIN SIDEWALKS, ERECT FENCES AS SHOWN IN DIAGRAM. WHERE TRENCHING WITHIN THE AREA OF TREE ROOT PROTECTION IS UNAVOIDABLE, LOCATE PROTECTION FENCING BETWEEN WORK AREA AND TREE NO CLOSER THAN SIX INCHES AROUND THE ROOT FLARE ZONE. FENCE AREAS WITHIN DRIP LINE OF TREES ON ADJACENT PROPERTY THAT OVERHANG THE WORKSITE. FENCING SHALL NOT IMPEDE INTO TRAFFIC OR BLOCK PEDESTRIAN PATHWAY. FENCING SHALL BE CONSTRUCTED IN A MANNER THAT IS SAFE AND NOT BECOME A HAZARD TO THE PUBLIC.
11. IF FOOT, VEHICLE OR CONSTRUCTION MACHINERY TRAVEL WITHIN THE TREE PROTECTION ZONE, 6"- 12" WOOD MULCH OR A 3/4" PLYWOOD OVER 4" LAYER OF MULCH SHALL BE PLACED WITHIN THE TREE PROTECTION ZONE.



TREE IN TREE WELL/SIDEWALK CONDITION



TREE IN OPEN AREA CONDITION



TREE IN BACK OF SIDEWALK OR IN MEDIAN CONDITION

## TREE PROTECTION PLAN

PROJECT FILE NAME: LOS LANDSCAPE CONSTRUCTION PLAN.dwg  
PLOT DATE: 9/22/2018

NOTES: THESE CALLOUTS APPLY TO PLAN LS, CONSTRUCTION PLAN SERIES.

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DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

FRANKLIN D. ROOSEVELT PARK REGIONAL  
STORMWATER CAPTURE PROJECT  
LANDSCAPE IMPROVEMENTS  
CONSTRUCTION PLAN:  
TREE PROTECTION

LS-1.01

PROJECT LANDSCAPE ARCHITECT DATE PROJ ID NO. PCA F21812149 SHEET 18 OF 63

ADDENDUM NO. 1

**SOCCER FIELD ARTIFICIAL TURF LEGEND**

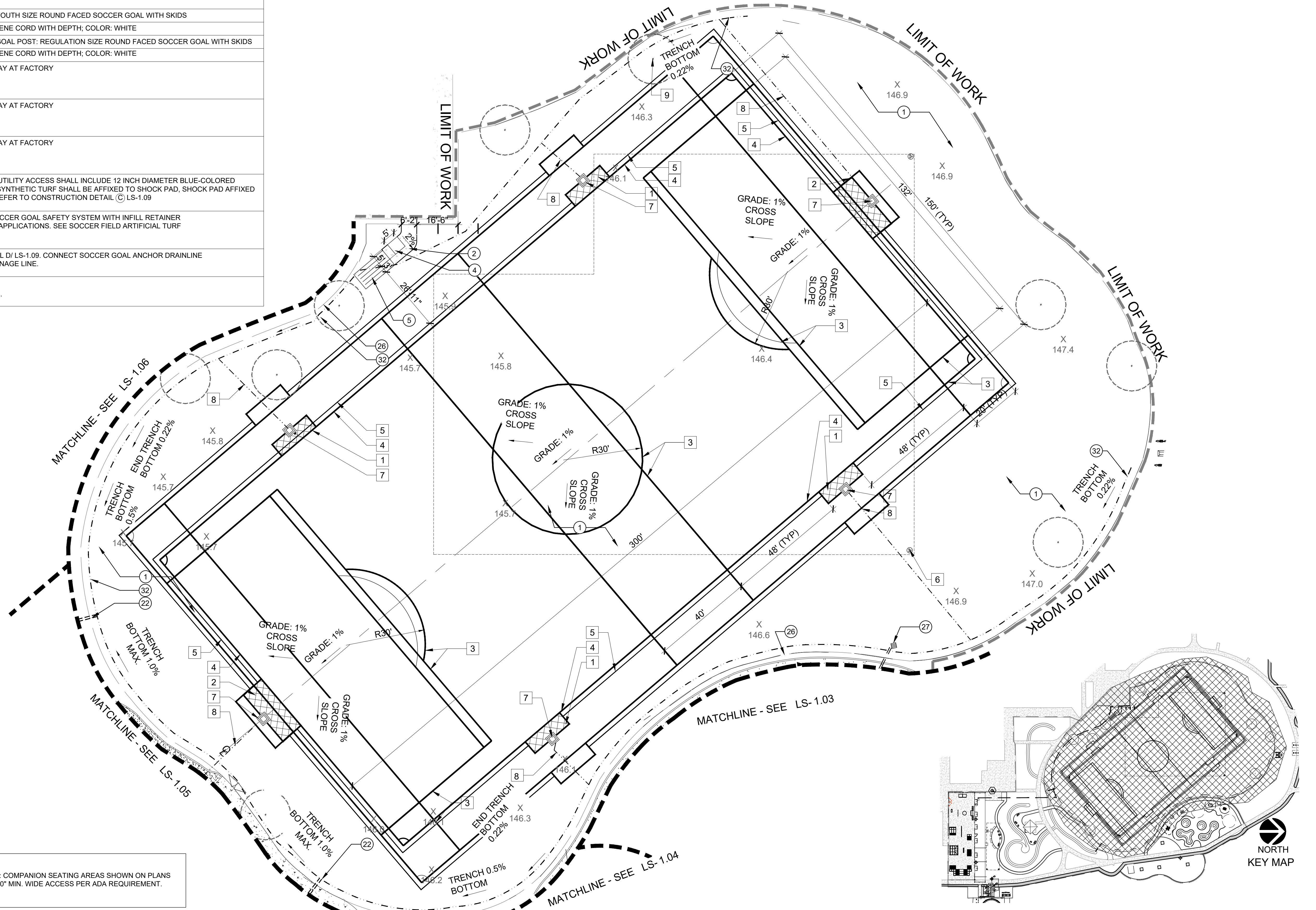
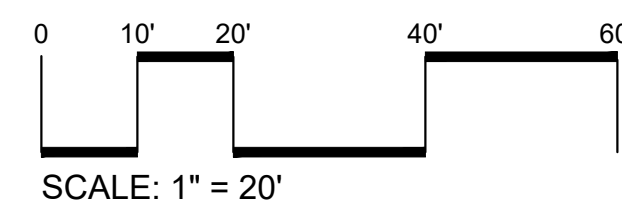
NUMBER	DESCRIPTION	MANUFACTURER	MODEL
1	6' x 18' GOAL POST WITH WHEELS AND ANCHOR NET	SPORTSFIELD SPECIALTIES, REFER TO SPECIAL PROVISIONS	MODEL: SG618RS GOAL POST: YOUTH SIZE ROUND FACED SOCCER GOAL WITH SKIDS NET: 4MM TWISTED POLYETHYLENE CORD WITH DEPTH; COLOR: WHITE
2	8' x 24' GOAL POST WITH WHEELS AND ANCHOR NET	SPORTSFIELD SPECIALTIES, REFER TO SPECIAL PROVISIONS	MODEL: SG824R; W/SGMOBILE GOAL POST: REGULATION SIZE ROUND FACED SOCCER GOAL WITH SKIDS NET: 4MM TWISTED POLYETHYLENE CORD WITH DEPTH; COLOR: WHITE
3	4" FIELD SIZE DIMENSION LINE	SYNTHETIC TURF REFER TO CONSTRUCTION MATERIAL LEGEND	WHITE COLORED STRIPING, INLAY AT FACTORY
4	6" FIELD SIZE DIMENSION LINE	SYNTHETIC TURF REFER TO CONSTRUCTION MATERIAL LEGEND	WHITE COLORED STRIPING, INLAY AT FACTORY
5	3" FIELD CLEARANCE DIMENSION LINE	SYNTHETIC TURF REFER TO CONSTRUCTION MATERIAL LEGEND	WHITE COLORED STRIPING, INLAY AT FACTORY
6	TURF OVER UTILITY ACCESS: MANHOLE COVER	SYNTHETIC TURF REFER TO CONSTRUCTION MATERIAL LEGEND	SYNTHETIC TURF PANEL OVER UTILITY ACCESS SHALL INCLUDE 12 INCH DIAMETER BLUE-COLORED CIRCLE AT CENTER OF PANEL. SYNTHETIC TURF SHALL BE AFFIXED TO SHOCK PAD, SHOCK PAD AFFIXED TO TOP OF MANHOLE COVER. REFER TO CONSTRUCTION DETAIL (C) LS-1.09
7	SOCCER GOAL ANCHOR	SPORTSFIELD SPECIALTIES, REFER TO SPECIAL PROVISIONS	MODEL: SG2S STAND ALONE SOCCER GOAL SAFETY SYSTEM WITH INFILL RETAINER SYSTEM FOR SYNTHETIC TURF APPLICATIONS. SEE SOCCER FIELD ARTIFICIAL TURF NOTES THIS SHEET.
8	SOCCER GOAL ANCHOR DRAINLINE		2" SCH 40 PVC, REFER TO DETAIL D/ LS-1.09. CONNECT SOCCER GOAL ANCHOR DRAINLINE TO ARTIFICIAL TURF FIELD DRAINAGE LINE.
9	EXISTING TREE		REFER TO SPECIAL PROVISIONS.

**SOCCER FIELD ARTIFICIAL TURF NOTES:**

- REFER TO SHEET 6 OF CIVIL PLANS FOR EXISTING SITE GRADING INFORMATION.
- CONTRACTOR TO FURNISH AND INSTALL SYNTHETIC TURF WITHIN FENCE PER PLANS. TURF ANCHOR AROUND THE ENTIRE PERIMETER OF THE SYNTHETIC TURF, DRAINAGE PER DETAILS, COLORED STRIPING, SYNTHETIC PANEL OVER UTILITY ACCESS, AND ALL APPURTENANCES.
- CONTRACTOR TO PROVIDE AND INSTALL SOCCER GOAL ANCHORS WITH TURF COVERS FOR EACH SOCCER GOAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. APPLY 4" BY 4" WHITE SQUARE OF SYNTHETIC TURF TO IDENTIFY BOX COVER.
- CONTRACTOR TO PROVIDE A COMPLETE SET OF WORKING DRAWINGS WITH LAYOUT AND DETAILS AS RECOMMENDED BY THE MANUFACTURER FOR A COMPLETE SYSTEM FOR AN ARTIFICIAL TURF SOCCER FIELD.
- CONTRACTOR TO SUBMIT COMPLETE SET OF WORKING DRAWINGS FOR REVIEW AND APPROVAL BY THE AGENCY.
- SUBMIT (2) SEPARATE 2' X 2' SAMPLES OF THE ARTIFICIAL TURF PLAYING SURFACE MATERIAL AND ARTIFICIAL TURF COMBINATION SHOCK PAD AND DRAINAGE MATERIAL FOR REVIEW AND APPROVAL BY THE AGENCY PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE A COMPLETE SET OF ARTIFICIAL TURF MAINTENANCE MANUALS AND MINIMUM OF (1) TRAINING SESSION FOR THE AGENCY'S GROUND MAINTENANCE CREW.

NOTE: ADA COMPANION SEATING SHALL CONFORM WITH ALL REQUIREMENTS PER 2016 CALIFORNIA BUILDING CODE, CHAPTER 11B-221.3 PARTIAL LIST OF SUCH REQUIREMENTS INCLUDE:  
 11B-221.3  
 11B-802.1.2 WIDTH SHALL BE 36" MIN.  
 11B-802.1.3 DEPTH SHALL BE 60" DEEP, ENTERING FROM ONE SIDE  
 11B-802.1.4 APPROACH, ACCESSIBLE ROUTE SHALL NOT OVERLAP WHEELCHAIR SPACE  
 11B-802.1.5 OVERLAP, WHEELCHAIR SPACE SHALL NOT OVERLAP CIRCULATION PATHS.

NOTE: COMPANION SEATING AREAS SHOWN ON PLANS HAS 30" MIN. WIDE ACCESS PER ADA REQUIREMENT.



PROJECT FILE NAME: L100 LANDSCAPE CONSTRUCTION PLAN.DWG

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TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION



PROJECT LANDSCAPE ARCHITECT DATE

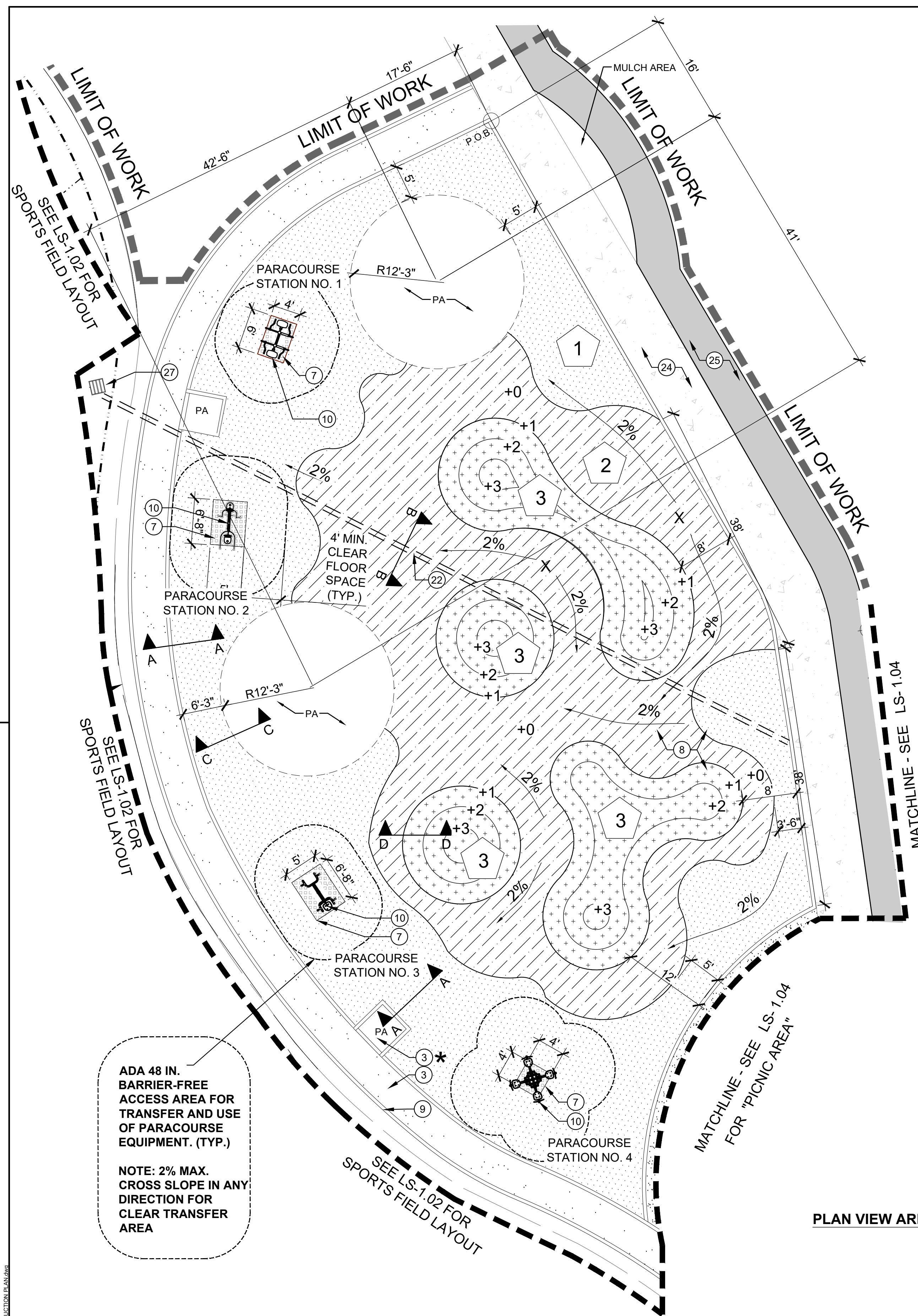
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
 LANDSCAPE IMPROVEMENTS  
 CONSTRUCTION PLAN:  
 SOCCER FIELD LAYOUT

PROJ ID NO. PCA F21812149 SHEET 19 OF 63

LS-1.02

ADDENDUM NO. 1

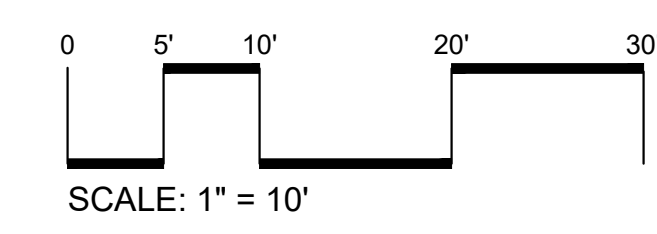
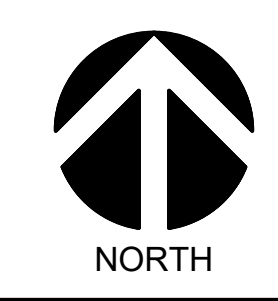


**RESILIENT PAVING COLOR LEGEND**

SYMBOL	NUMBER	COLOR
	1	BLUE
	2	TERRA COTTA
	3	GREEN

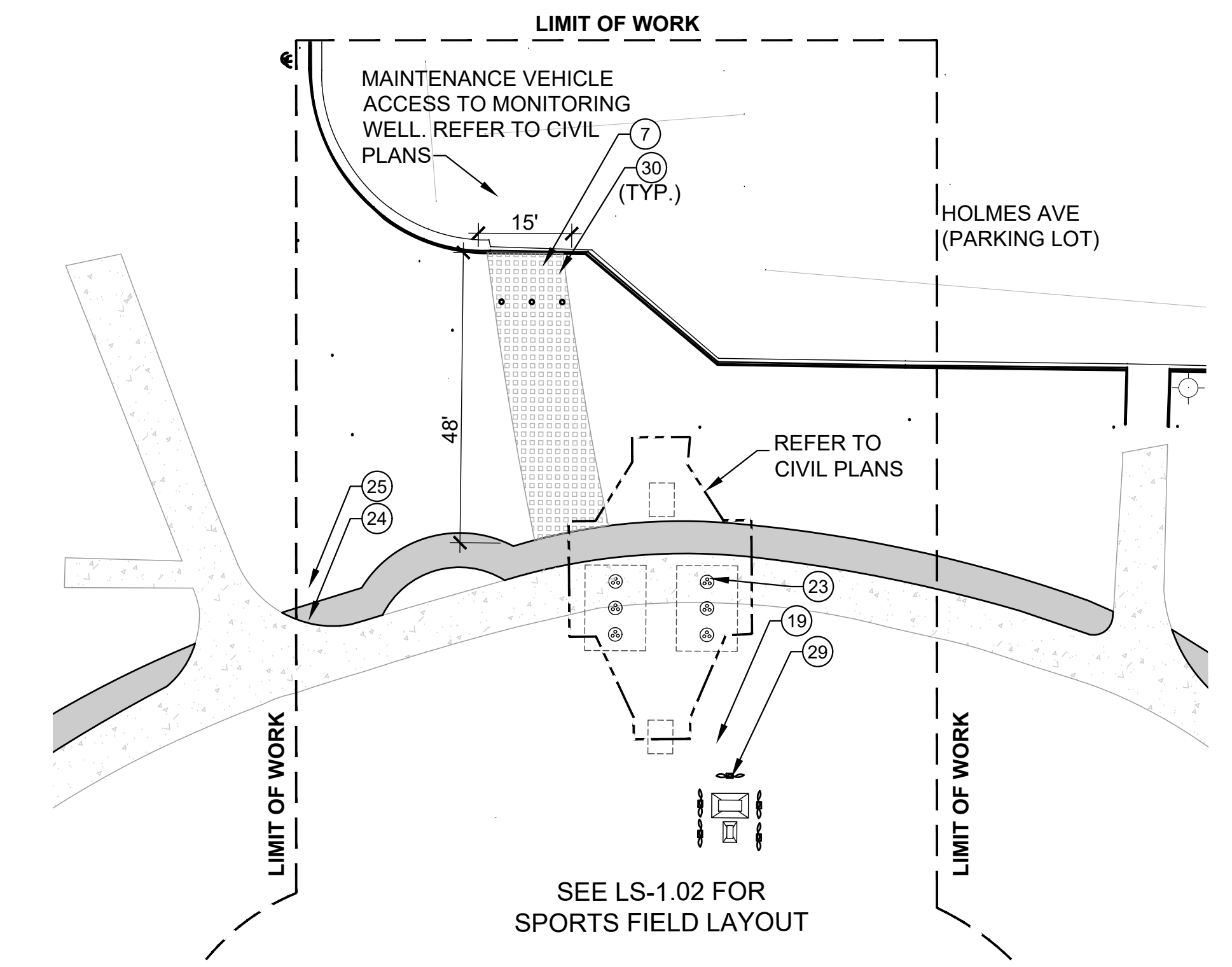
- RESILIENT PAVING NOTES:**
1. CONTRACTOR SHALL PROVIDE FINAL LAYOUT AND SHOP DRAWING FOR REVIEW AND APPROVAL BY THE AGENCY.
  2. REFER TO LS-1.08 FOR SECTION AND DETAILS.
  3. REFER TO LS-1.010 FOR PRODUCT PARACOURSE EQUIPMENT.

**PLAN VIEW AREA "A": PARACOURSE**

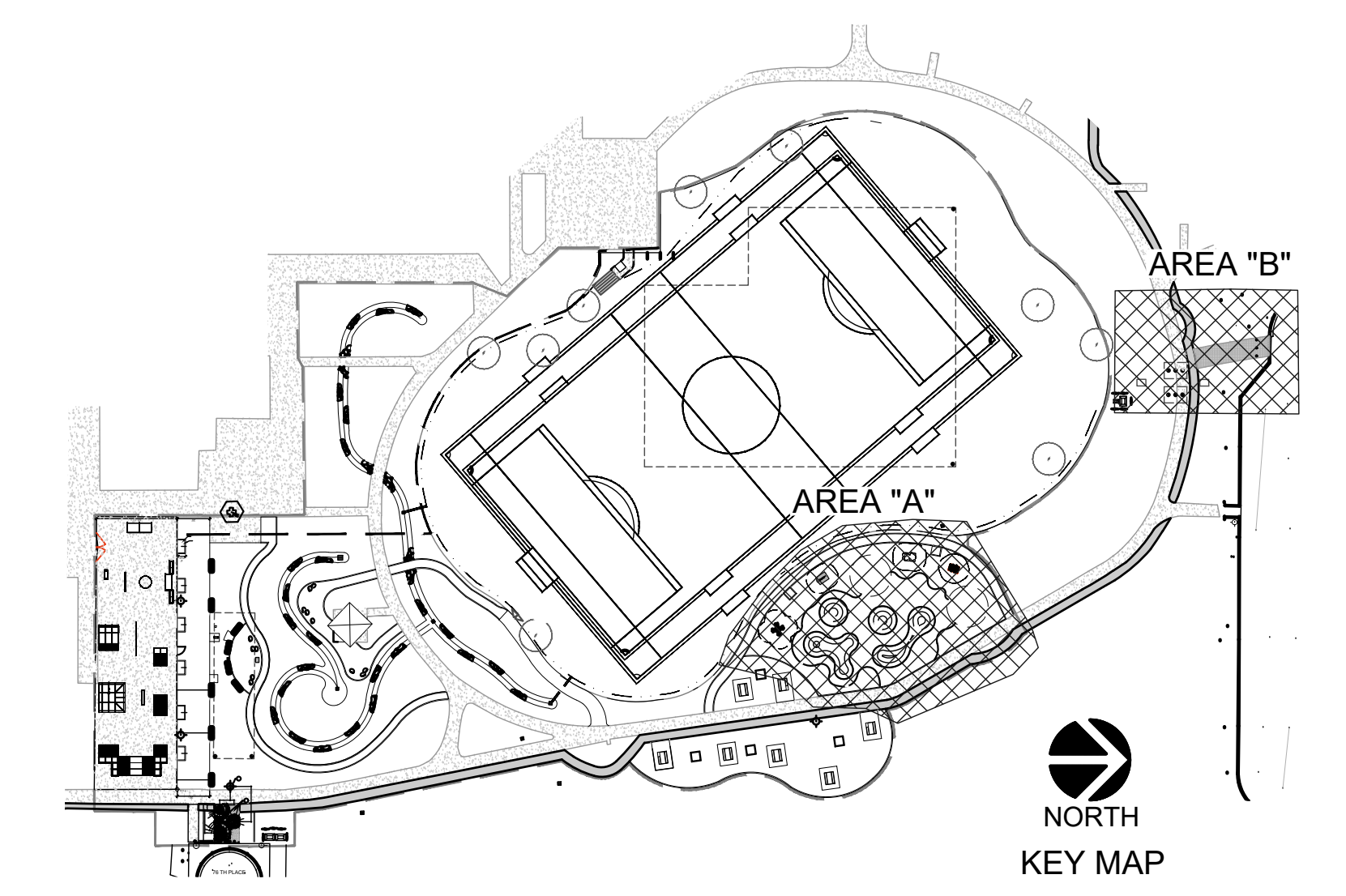
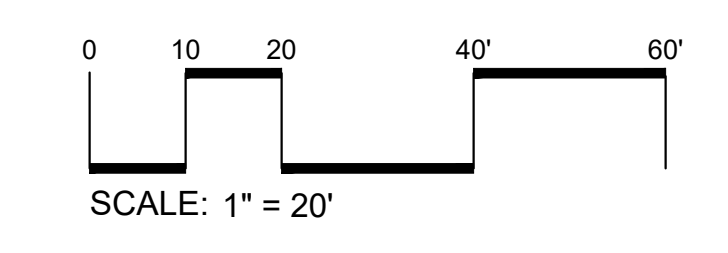
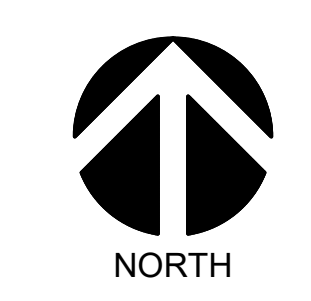


ADA 48 IN. BARRIER-FREE ACCESS AREA FOR TRANSFER AND USE OF PARACOURSE EQUIPMENT. (TYP.)

NOTE: 2% MAX. CROSS SLOPE IN ANY DIRECTION FOR CLEAR TRANSFER AREA



**PLAN VIEW AREA "B": DRIVEWAY OFF HOLMES AV**



PROJECT FILE NAME: L:\03 LANDSCAPE CONSTRUCTION\2018\

PLT DATE: 5/22/2018

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TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION

REVISIONS

PROJECT LANDSCAPE ARCHITECT DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

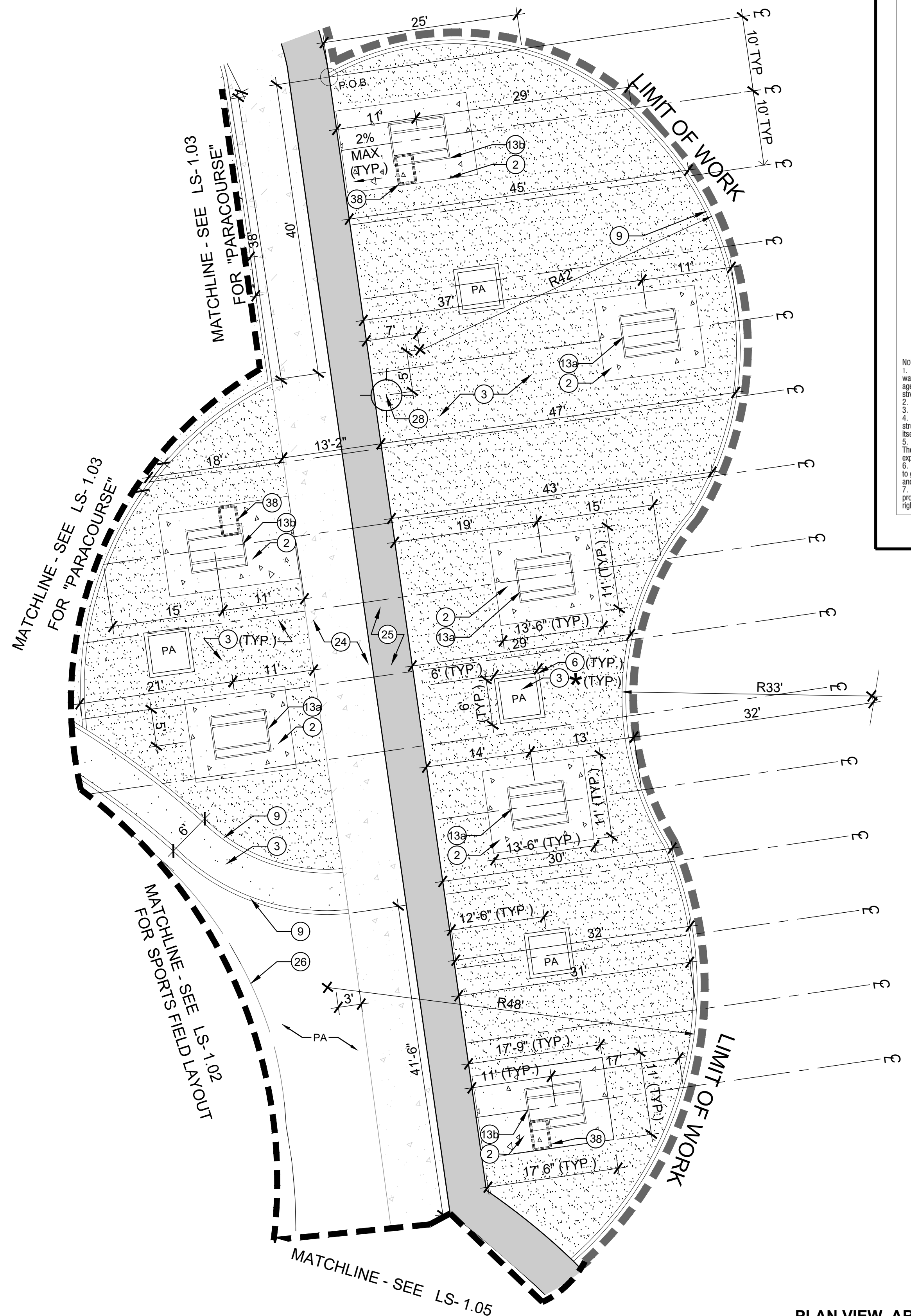
LANDSCAPE IMPROVEMENTS

CONSTRUCTION PLAN:  
PARACOURSE AND DRIVEWAY OFF HOLMES AV

PROJ ID NO. PCA F21812149

SHEET 20 OF 63

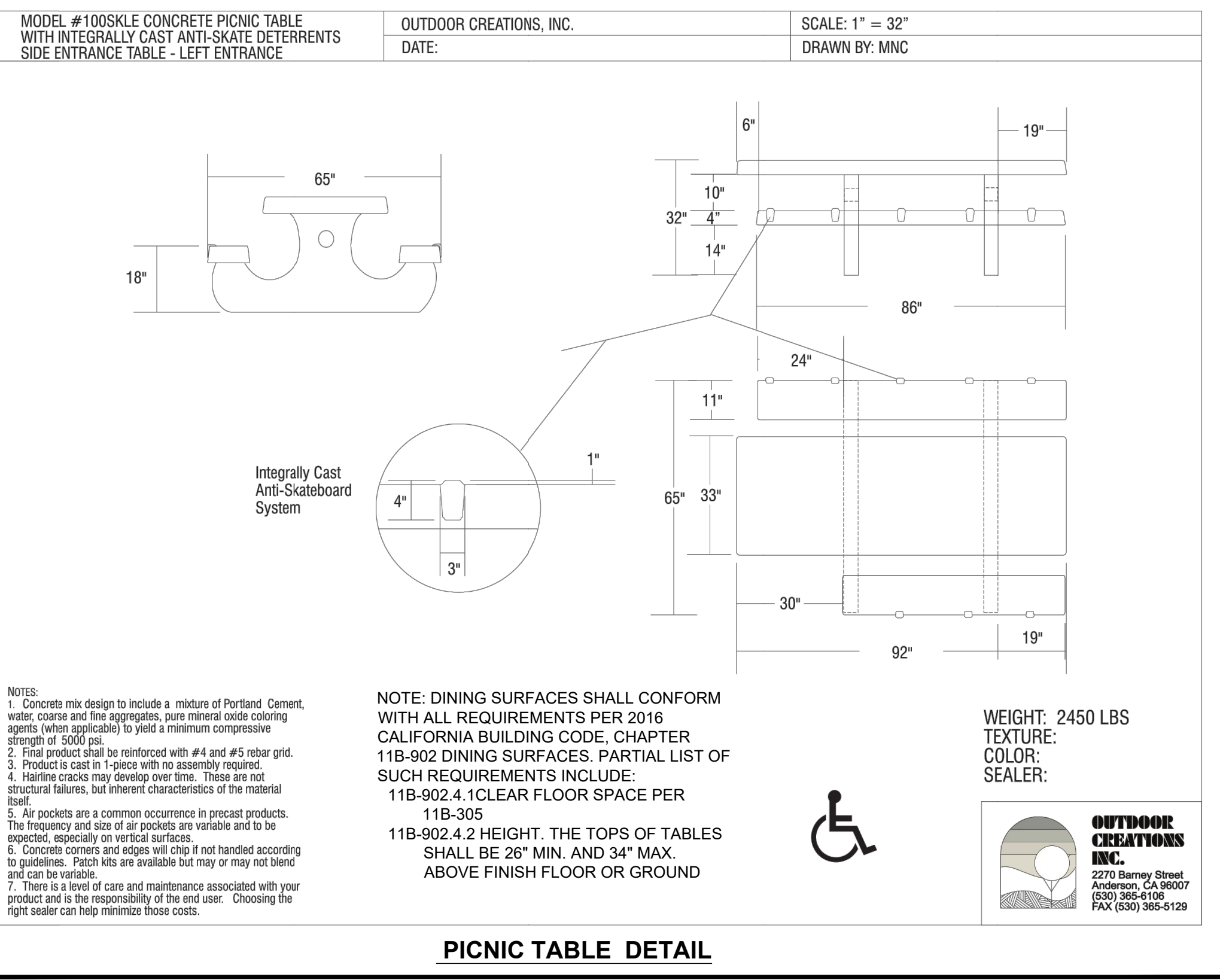
LS-1.03



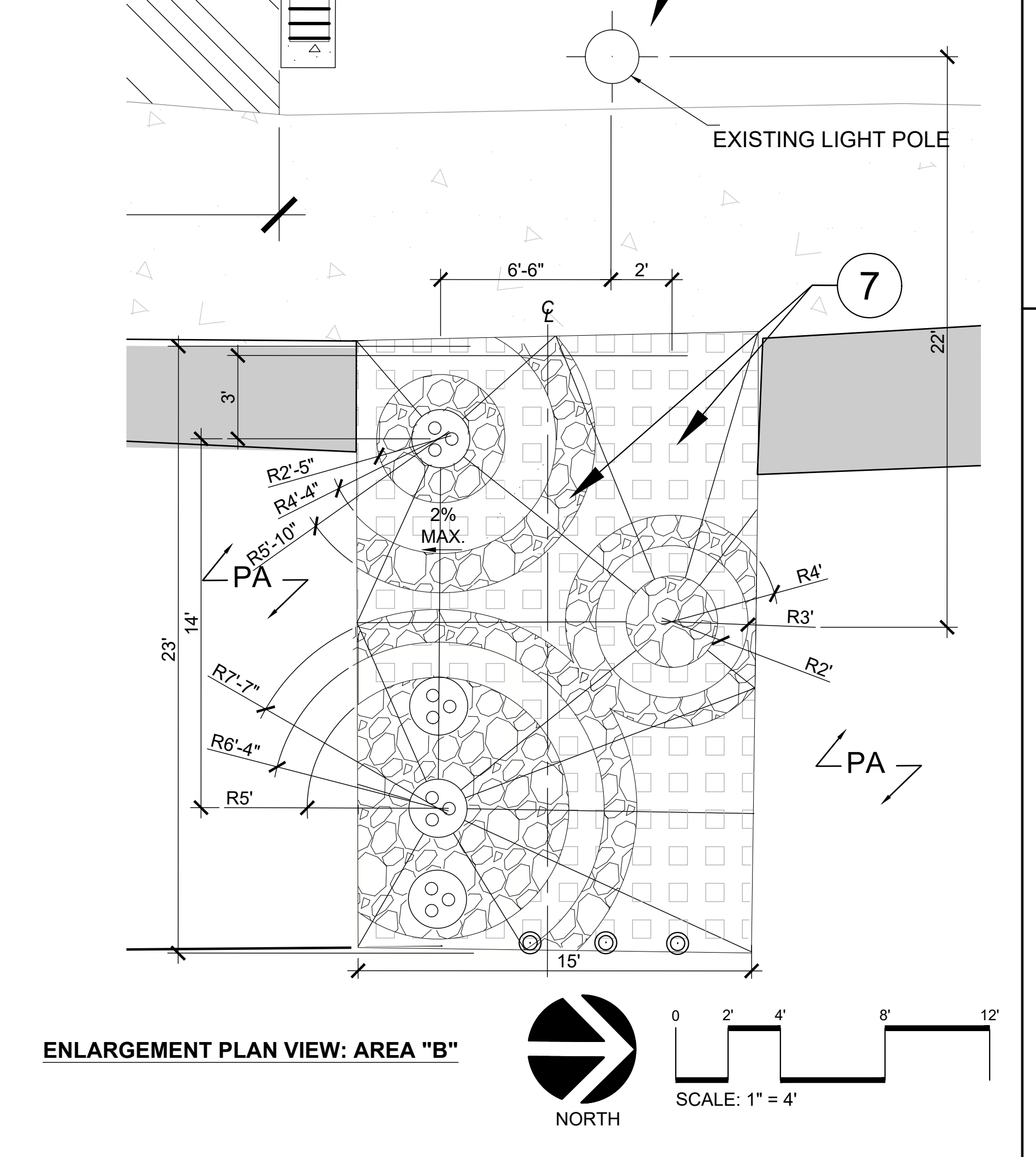
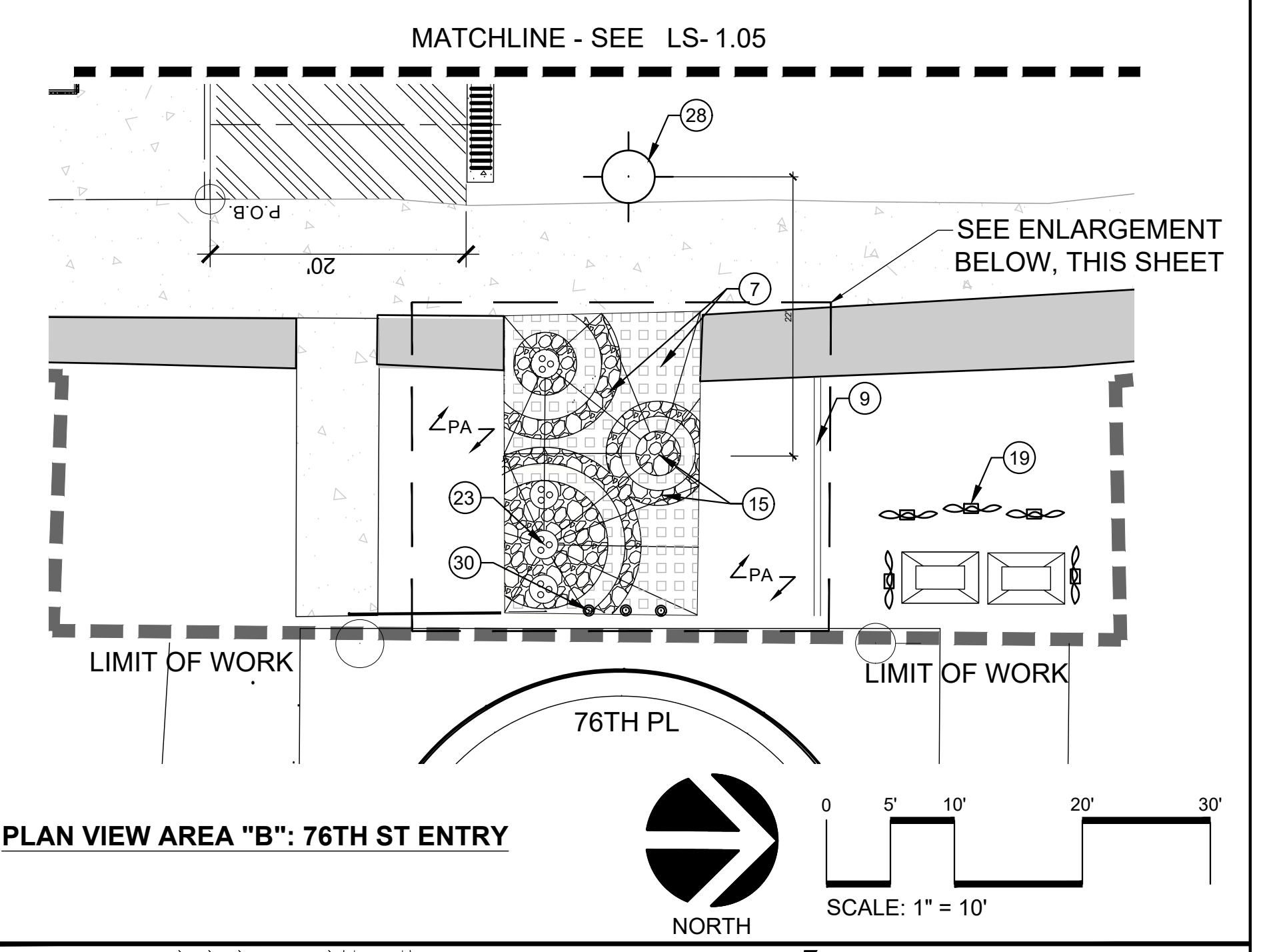
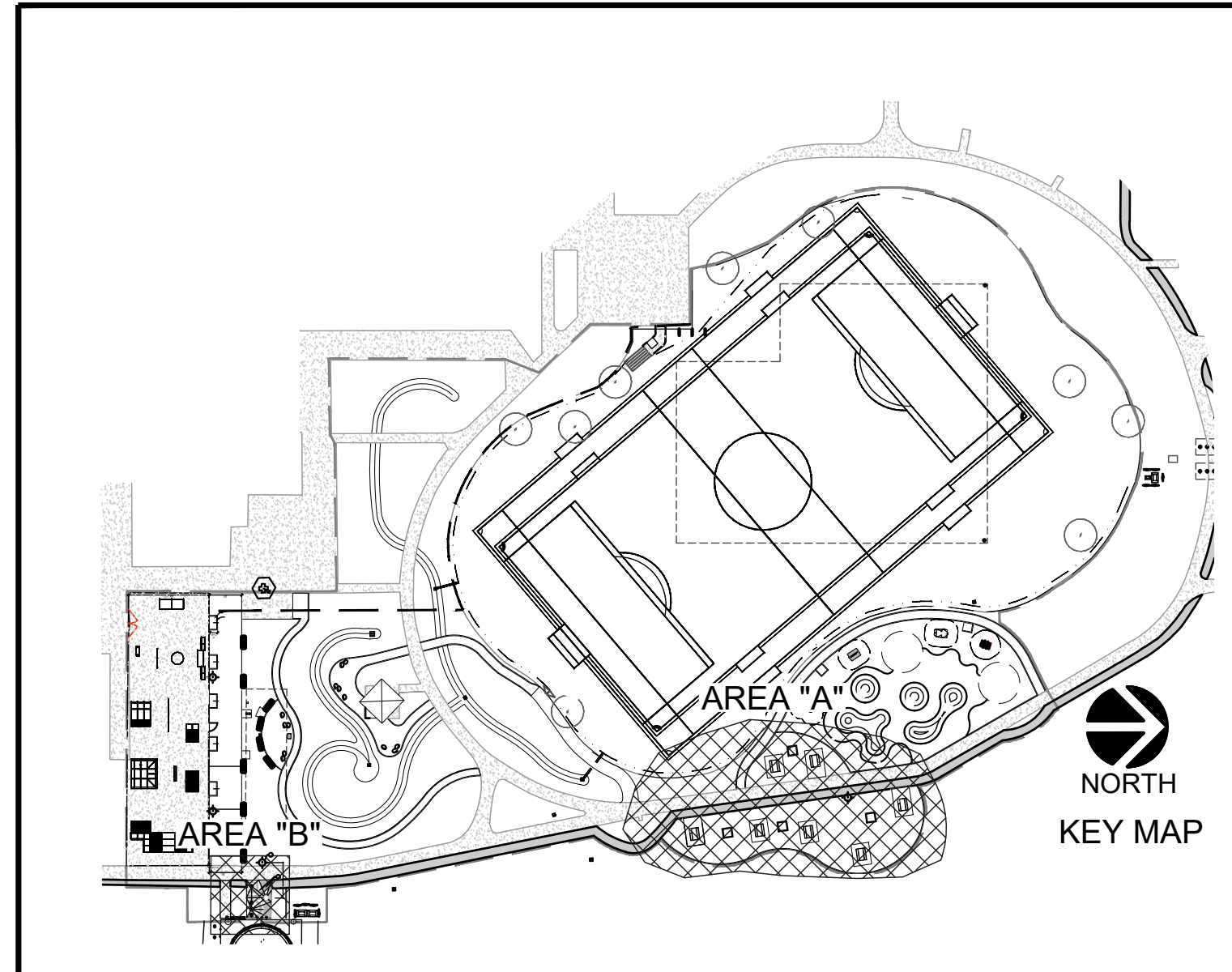
**PLAN VIEW AREA "A": PICNIC AREA**

NORTH

SCALE: 1" = 10'



NOTE: PROPOSED PICNIC SEATING IS A TOTAL QUANTITY OF (42); EACH TABLE AFFORDS (6) SEATS PER TABLE AND THERE ARE (7) PROPOSED TABLES. FIVE PERCENT ARE DEDICATED AS ACCESSIBLE SEATING AT A QUANTITY OF (3).



PROJECT FILE NAME: L001 LANDSCAPE CONSTRUCTION PLAN.DWG  
 PLOT DATE: 5/22/2018

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**811**

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DATE	MK	DESCRIPTION
REVISIONS		

PROJECT LANDSCAPE ARCHITECT DATE

PROJ ID NO.

PCA F21812149

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

LANDSCAPE IMPROVEMENTS

CONSTRUCTION PLAN:

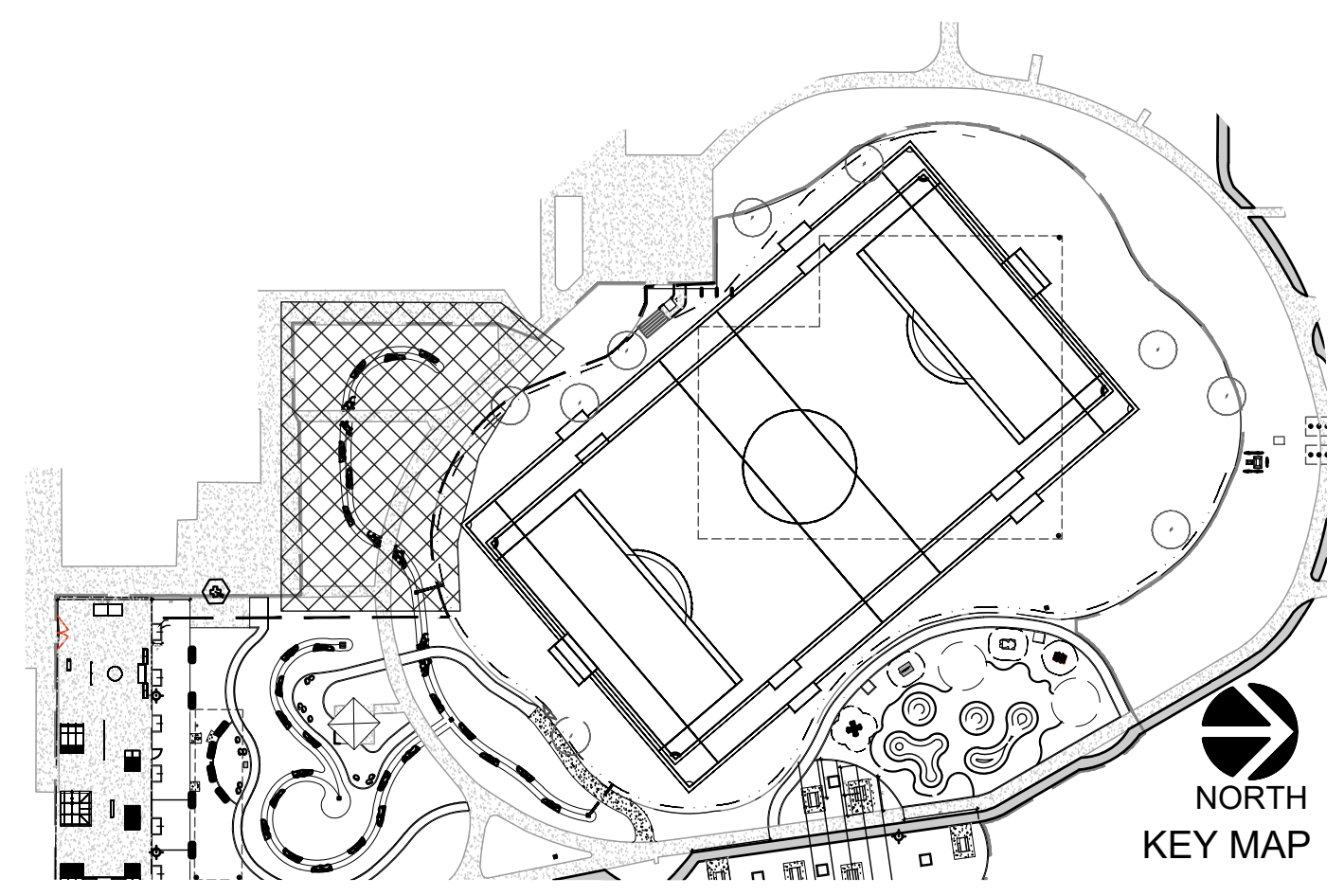
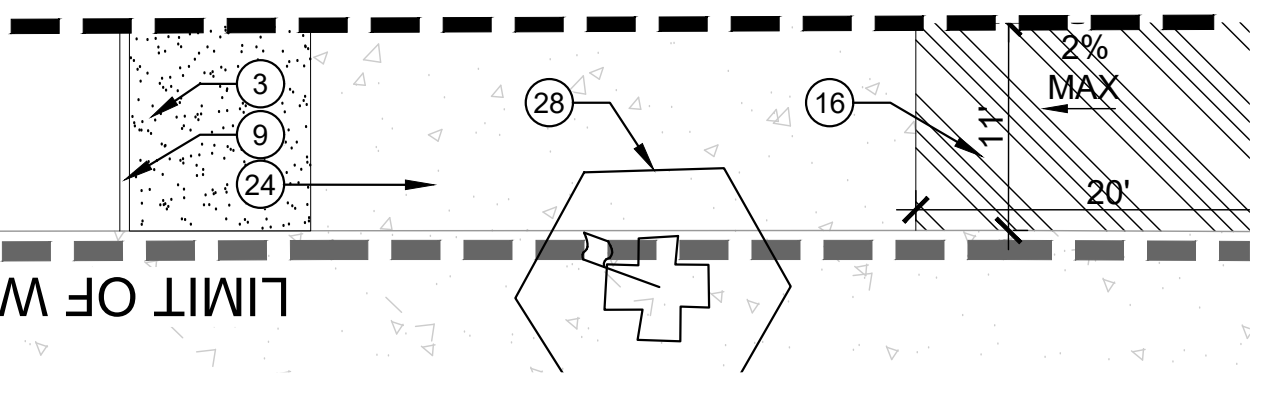
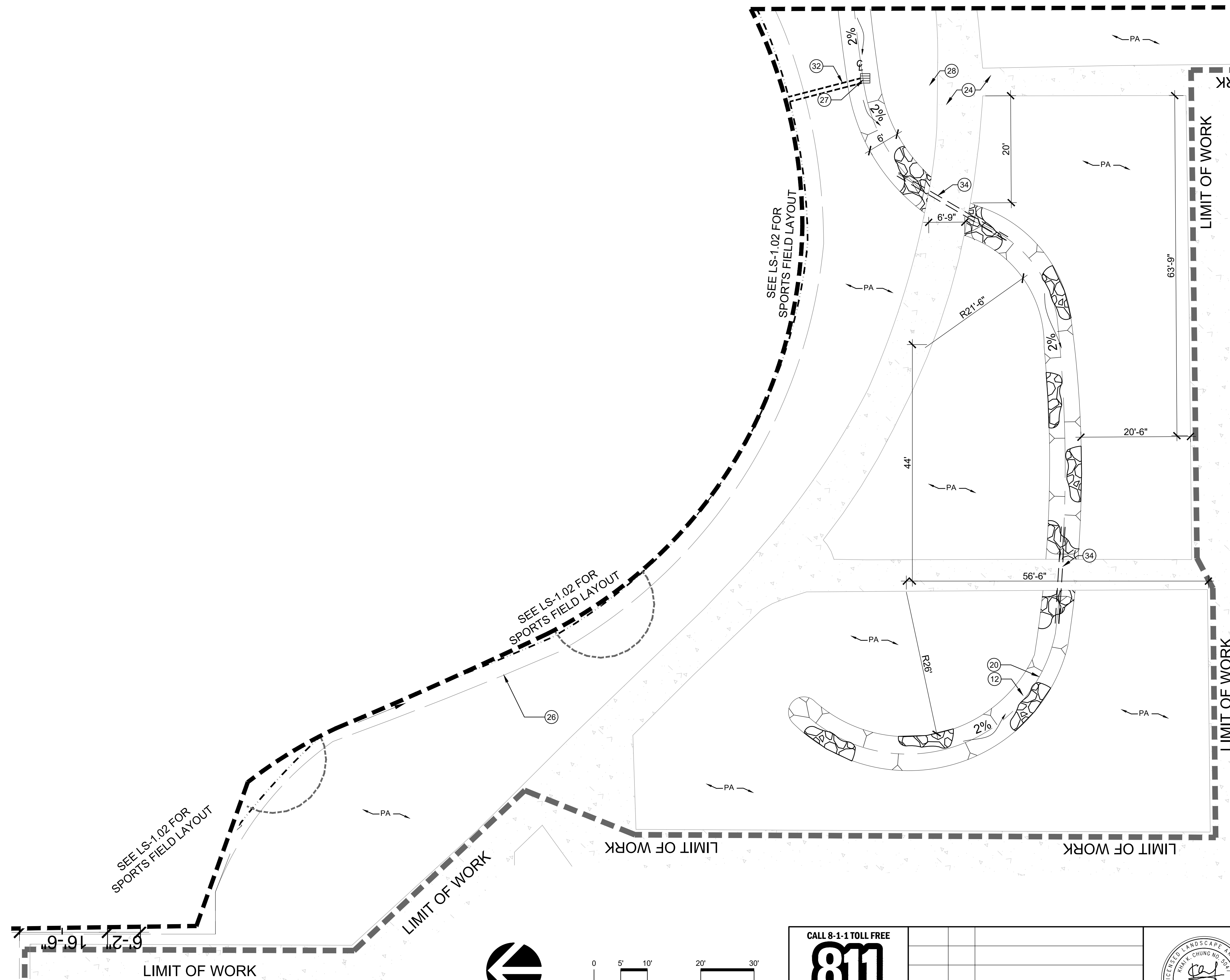
PICNIC AREA AND 76TH ST ENTRY

LS-1.04

SHEET 21 OF 63



MATCHLINE - SEE LS-1.05



SEE LS-1.02 FOR SPORTS FIELD LAYOUT

SEE LS-1.02 FOR SPORTS FIELD LAYOUT

SEE LS-1.02 FOR SPORTS FIELD LAYOUT

LIMIT OF WORK

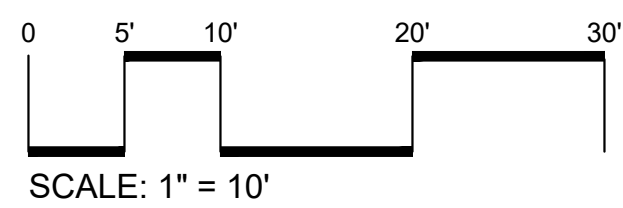
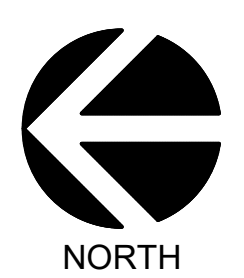
LIMIT OF WORK

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LIMIT OF WORK

LIMIT OF WORK



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DATE	MK	DESCRIPTION
REVISIONS		

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

LANDSCAPE IMPROVEMENTS

CONSTRUCTION PLAN:

EDUCATION GARDEN

LS-1.06

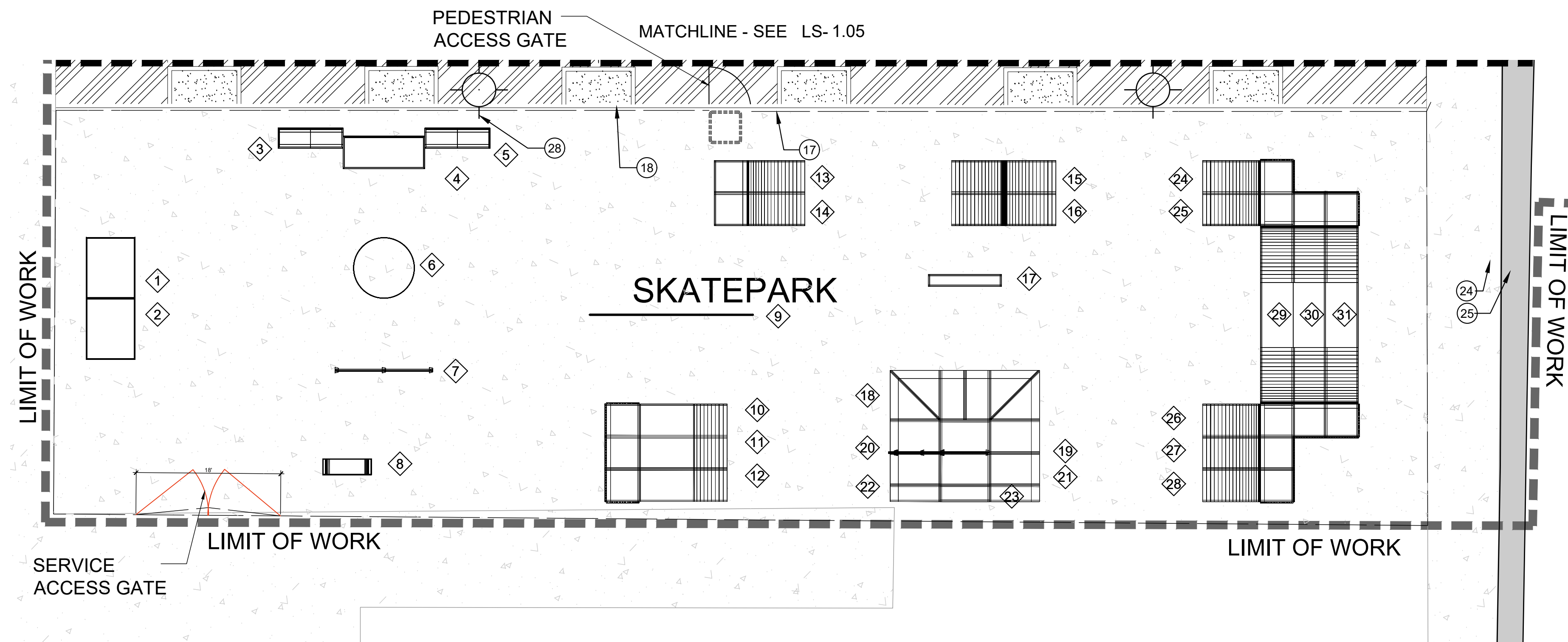
PROJECT LANDSCAPE ARCHITECT DATE PROJ ID NO. PCA F21812149 SHEET 23 OF 63

PROJECT FILE NAME: LOS LANDSCAPE CONSTRUCTION PLAN.dwg  
PLOT DATE: 5/22/2018



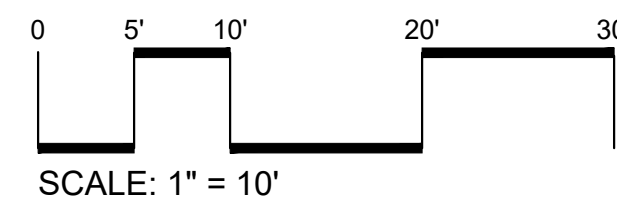
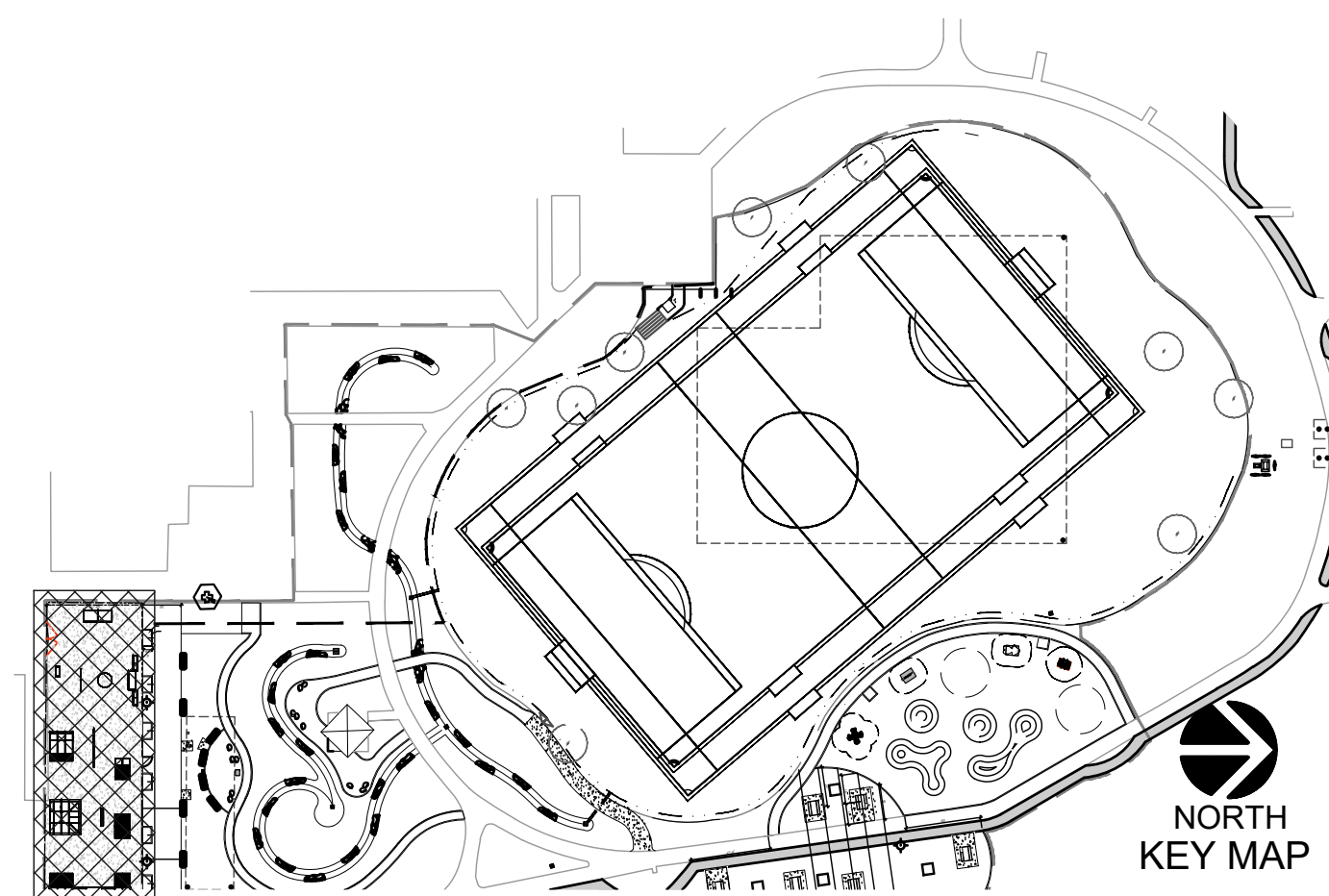
SKATE PARK COMPONENTS LEGEND

ITEM	OBSTACLE	HEIGHT	WIDTH	LENGTH
1	CRUZ SLANT PAD (REPLICA SERIES)	3'-0"	7.5'	6'
2	CRUZ SLANT PAD (REPLICA SERIES)	3'-0"	7.5'	6'
3	SKATE BENCH (CONCRETE)	1.5'	2'	6'
4	PIER 7 (REPLICA SERIES)	1.5'	4'	10'
5	SKATE BENCH (CONCRETE)	1.5'	2'	6'
6	SKITTLE PAD (REPLICA SERIES)	0.5'	7'	7'
7	GRIND RAIL (SQUARE)	1'	3"	12'
8	SKATE BENCH (CONCRETE)	1.5'	2'	6'
9	GRIND RAIL (ROUND)	1'	2"	20'
10	BANK RAMP	5'	4'	15'
11	BANK RAMP	5'	4'	15'
12	BANK RAMP	5'	4'	15'
13	QUARTER PIPE	4'	4'	11'
14	QUARTER PIPE	4'	4'	11'
15	SPINE	3'	4'	13'
16	SPINE	3'	4'	13'
17	HUBBA LEDGE (REPLICA SERIES)	1'	1.5'	9'
18	PYRAMID SECTION (WEDGE)	2'	6'	18'
19	WEDGE, FLAT, WEDGE	2'	4'	18'
20	GRIND RAIL, KINKED (ROUND)	1.5'	2"	12'
21	WEDGE, FLAT, WEDGE	2'	4'	18'
22	WEDGE, FLAT, WEDGE 2' WIDE	2'	2'	18'
23	GRINDBOX (2' WIDE)	1.5'	2'	6'
24	QUARTER PIPE	4'	4'	11'
25	QUARTER PIPE	4'	4'	7'
26	QUARTER PIPE	4'	4'	7'
27	QUARTER PIPE	4'	4'	11'
28	QUARTER PIPE	4'	4'	11'
29	HALF PIPE	4'	4'	30'
30	HALF PIPE	4'	4'	30'
31	HALF PIPE	4'	4'	30'



SKATE PARK EQUIPMENT NOTES:

1. THE EXISTING EQUIPMENT IS SUBJECT TO SALVAGE BY THE DEPARTMENT OF PARKS AND RECREATION (DPR). CONTACT JOSE A. CAPRILE, PARK PROJECT COORDINATOR AT: (626) 588-5315 (2) WEEKS PRIOR TO REMOVING EQUIPMENT. THE CONTRACTOR SHALL REMOVE AND SALVAGE ON-SITE ALL EQUIPMENT IDENTIFIED BY DPR. SALVAGED EXISTING EQUIPMENT IDENTIFIED BY DPR'S REPRESENTATIVE SHALL BE TRANSPORTED TO THE FINAL DESTINATION BY DPR. ALL EXISTING EQUIPMENT NOT IDENTIFIED FOR SALVAGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OFF-SITE.
2. PROPOSED EQUIPMENT AND LAYOUT ARE FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH SKATE PARK MANUFACTURER LISTED IN CONSTRUCTION MATERIAL LEGEND TO PROVIDE FINAL LAYOUT AND WORKING DRAWING FOR REVIEW AND APPROVAL BY THE AGENCY.
3. REPLACE / REPAIR EXISTING CONCRETE SURFACE WITH 4" PCC AS NEEDED FOR A SMOOTH RIDING SURFACE.



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DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

FRANKLIN D. ROOSEVELT PARK REGIONAL  
STORMWATER CAPTURE PROJECT  
LANDSCAPE IMPROVEMENTS  
CONSTRUCTION PLAN:  
SKATE PARK

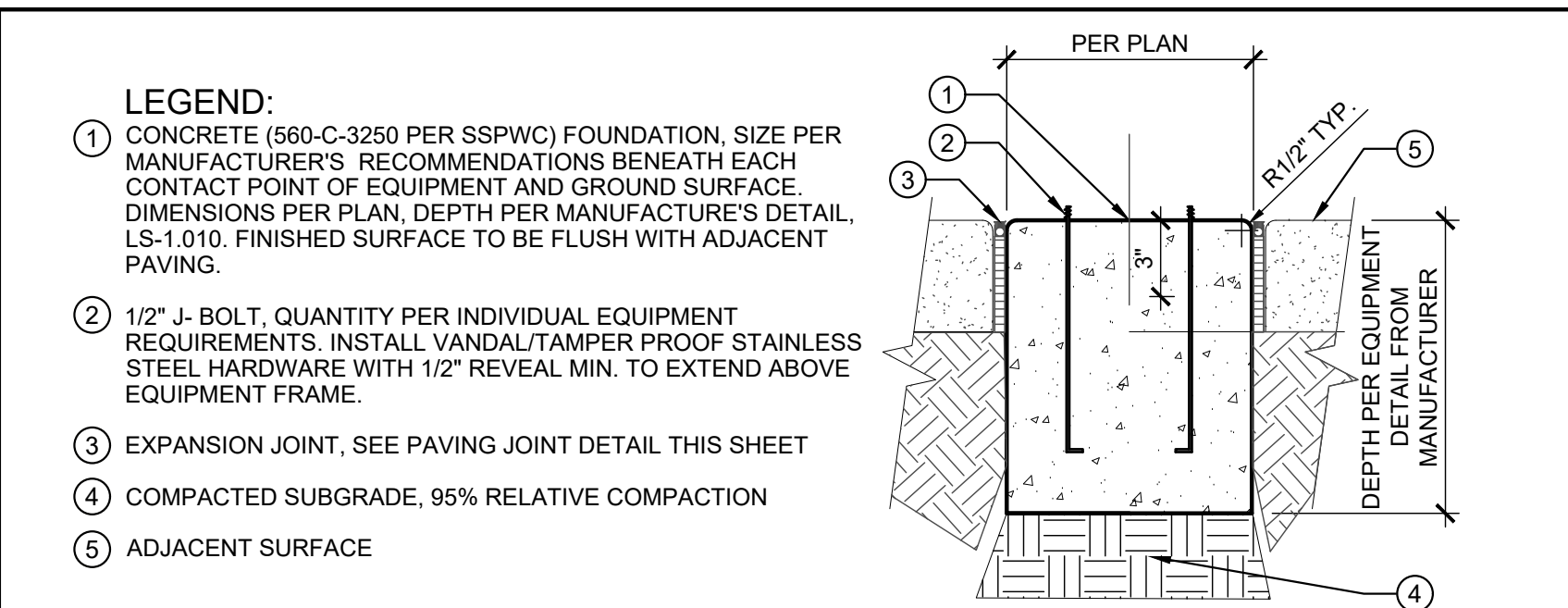
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PROJ ID NO.

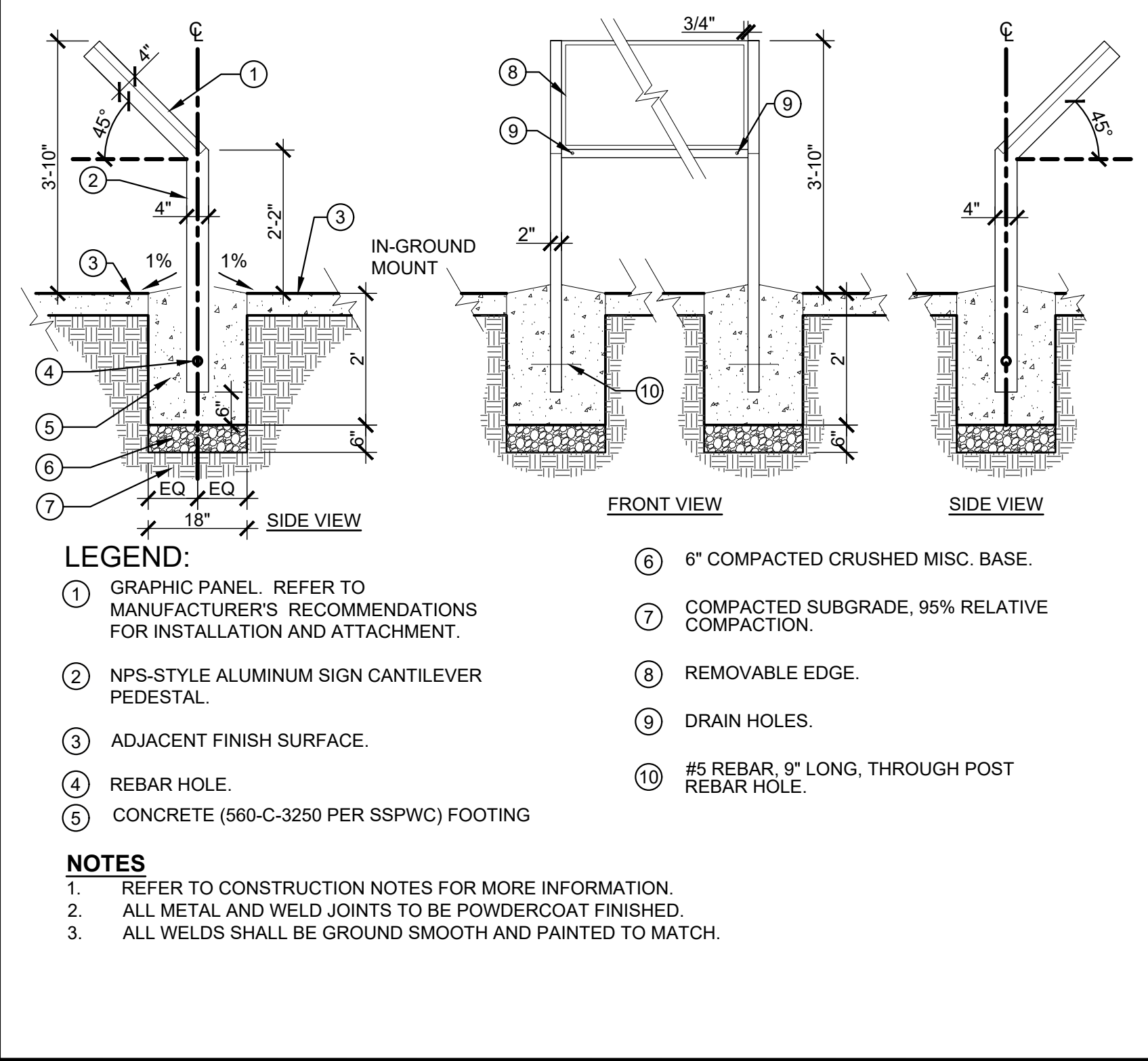
PCA F21812149

SHEET 24 OF 63

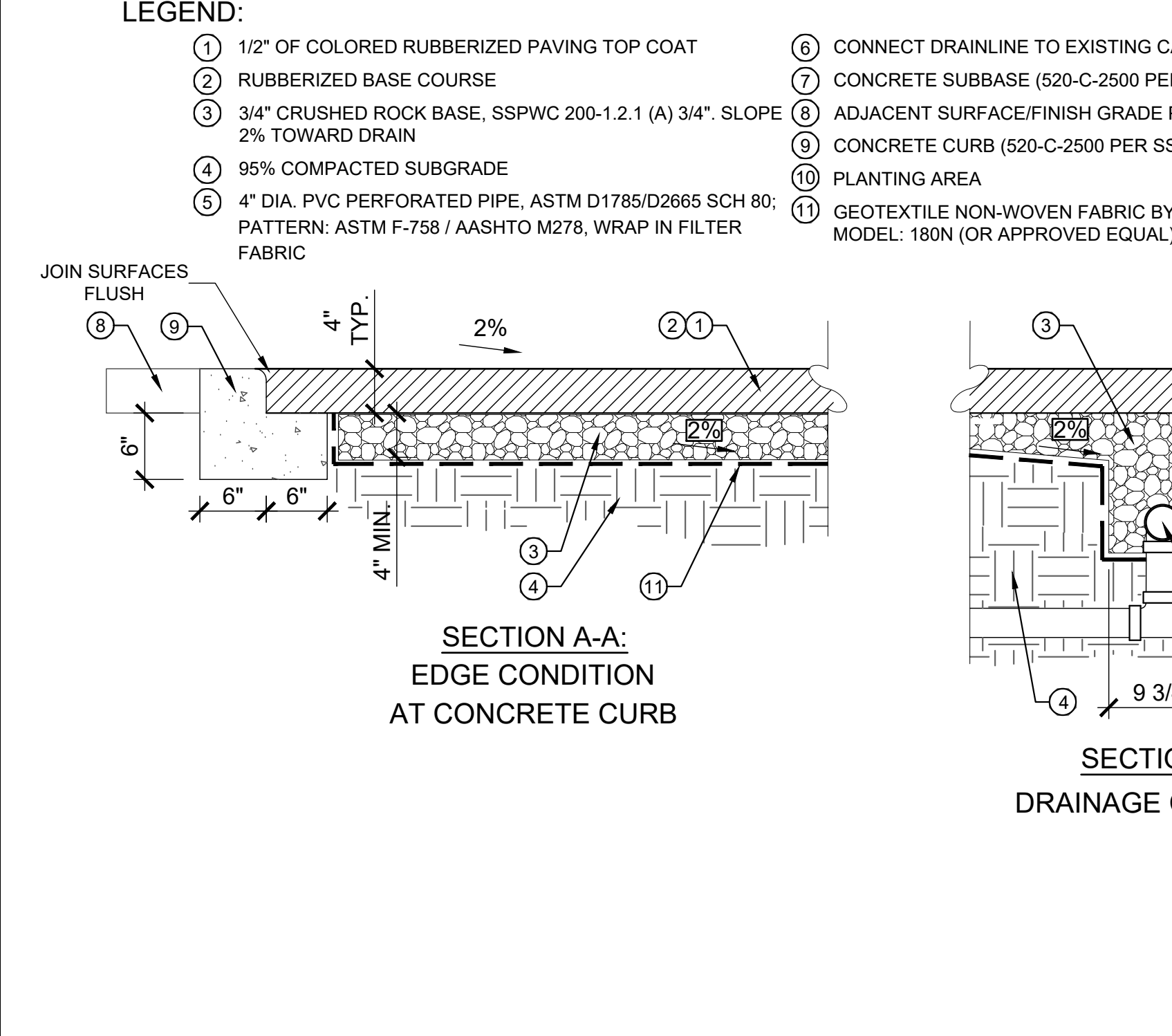
ADDENDUM NO. 1



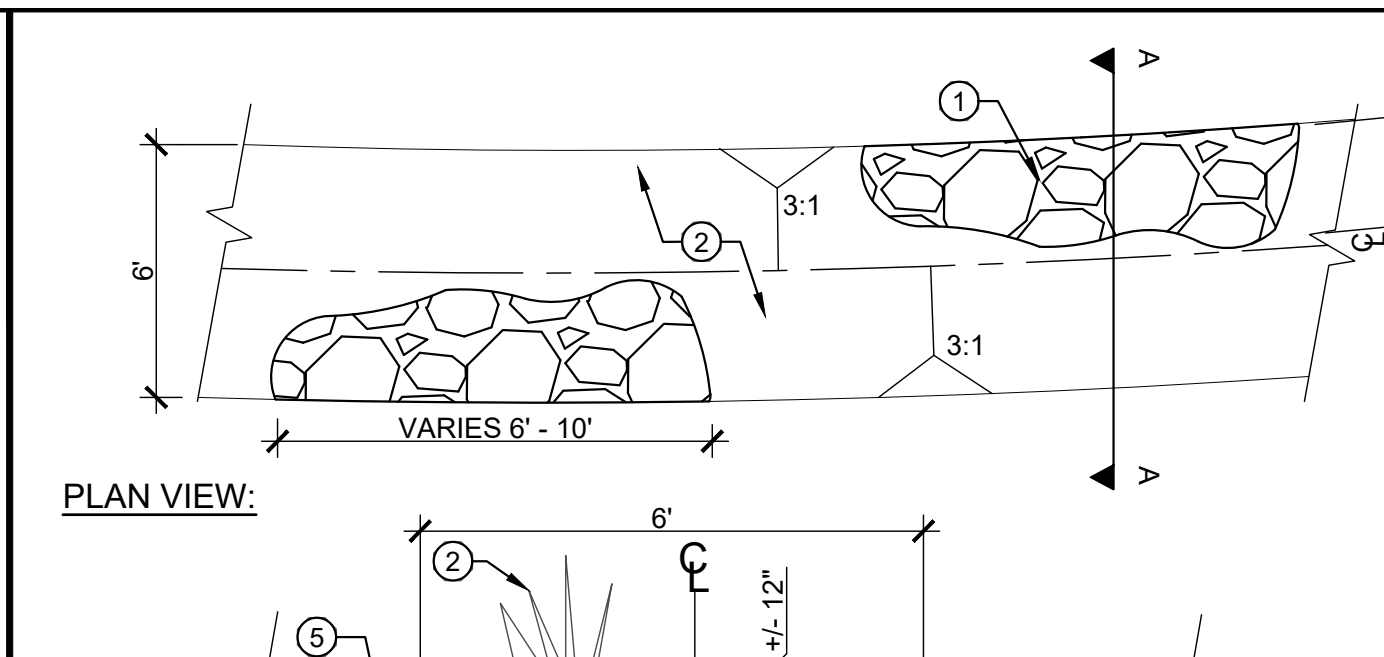
**G PARACOURSE CONCRETE FOOTING** NTS



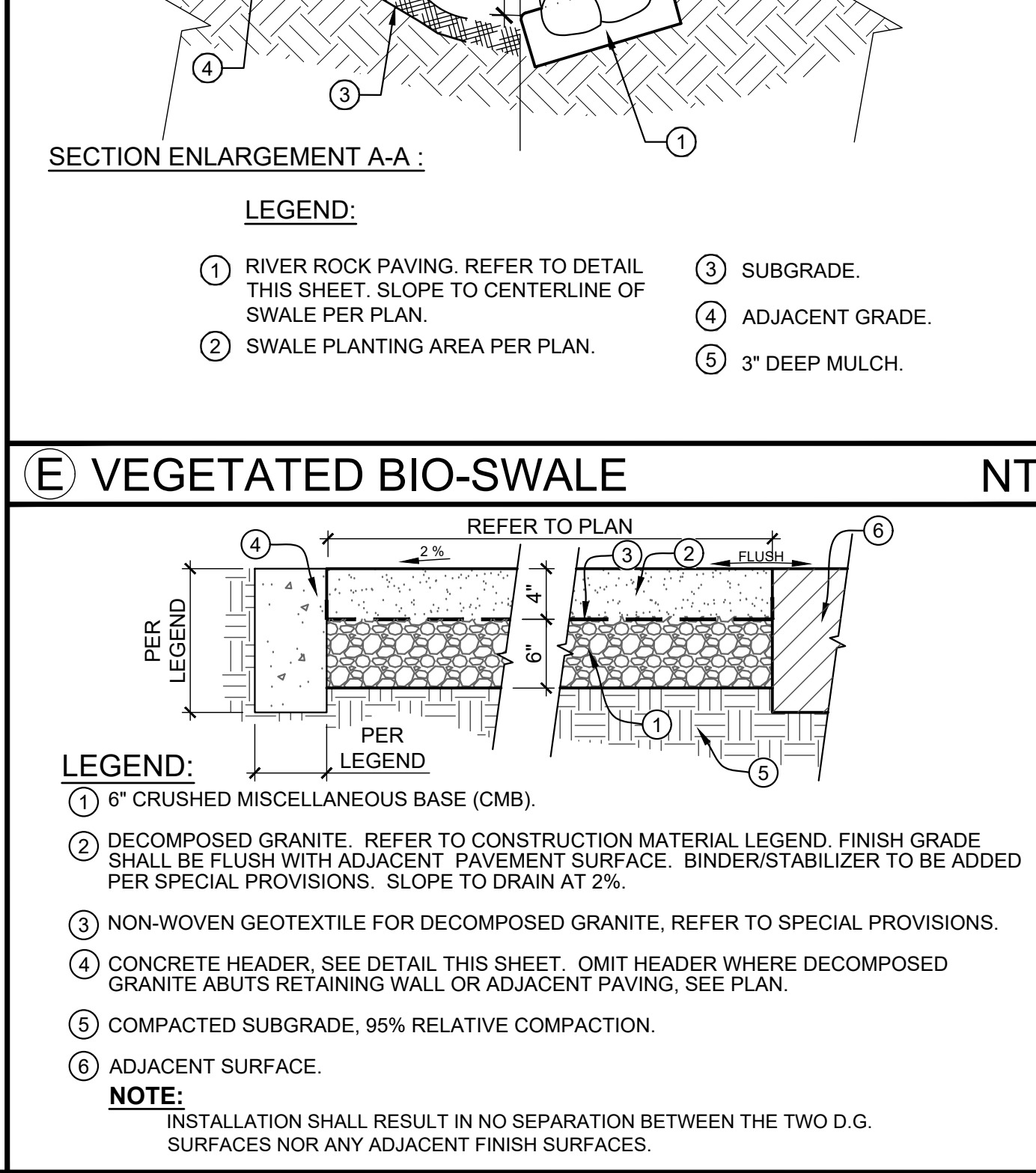
**E VEGETATED BIO-SWALE** NTS



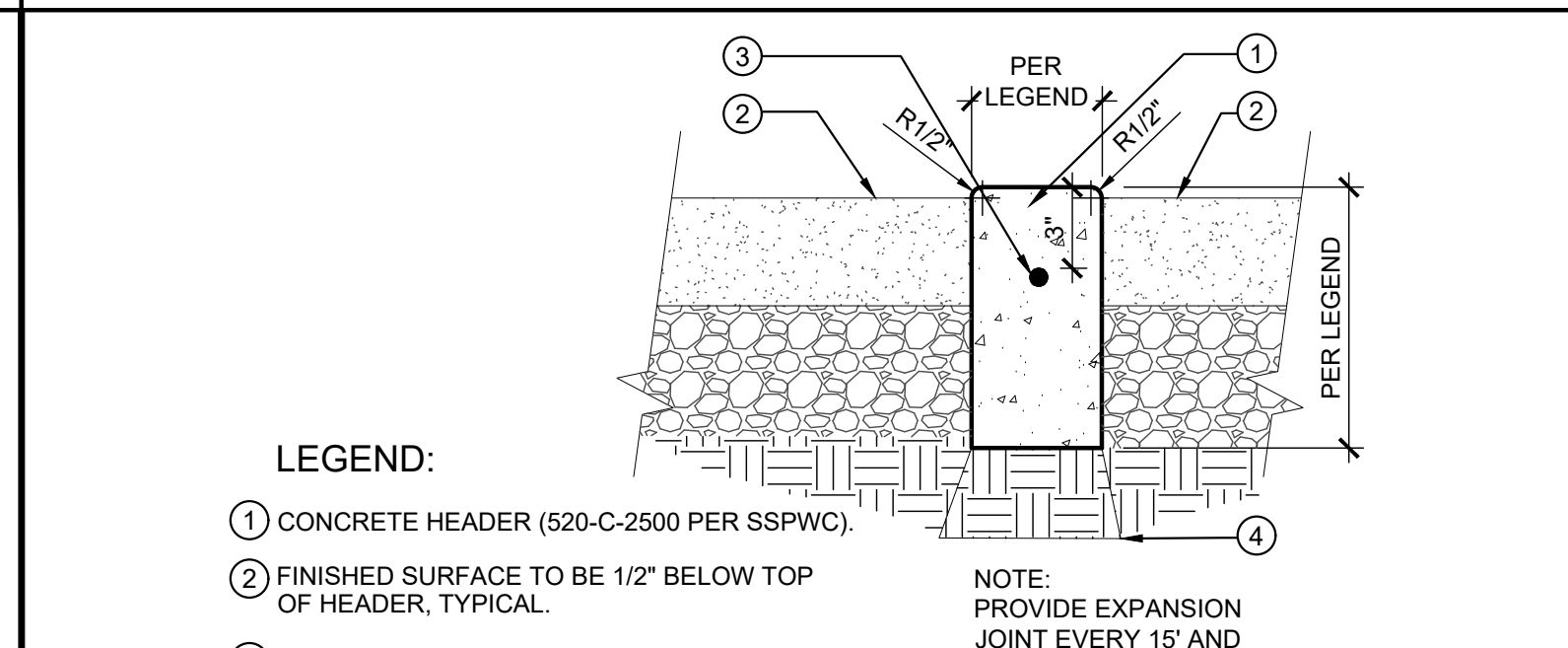
**I RESILIENT PAVING SURFACE** NTS



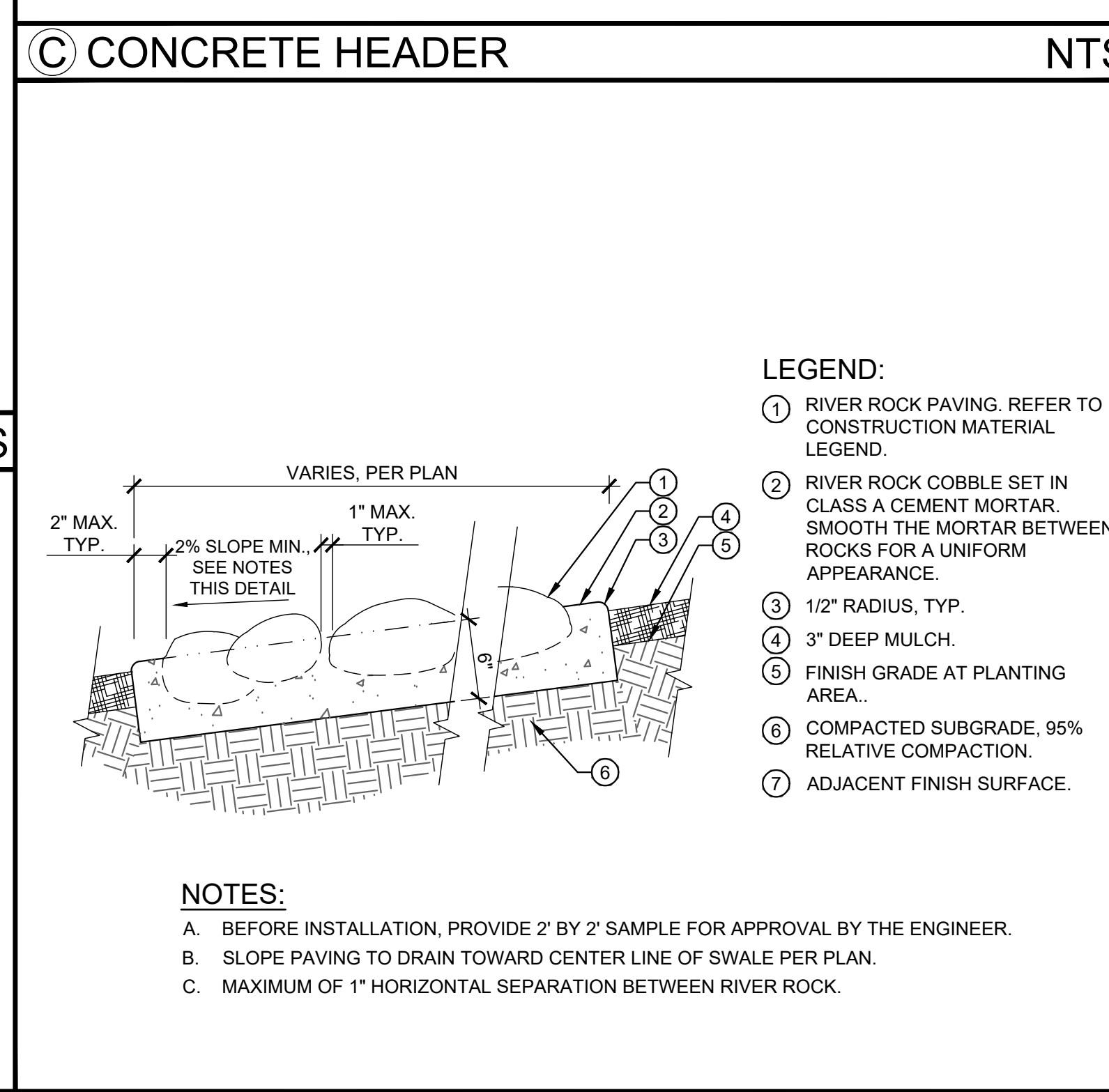
**C CONCRETE HEADER** NTS



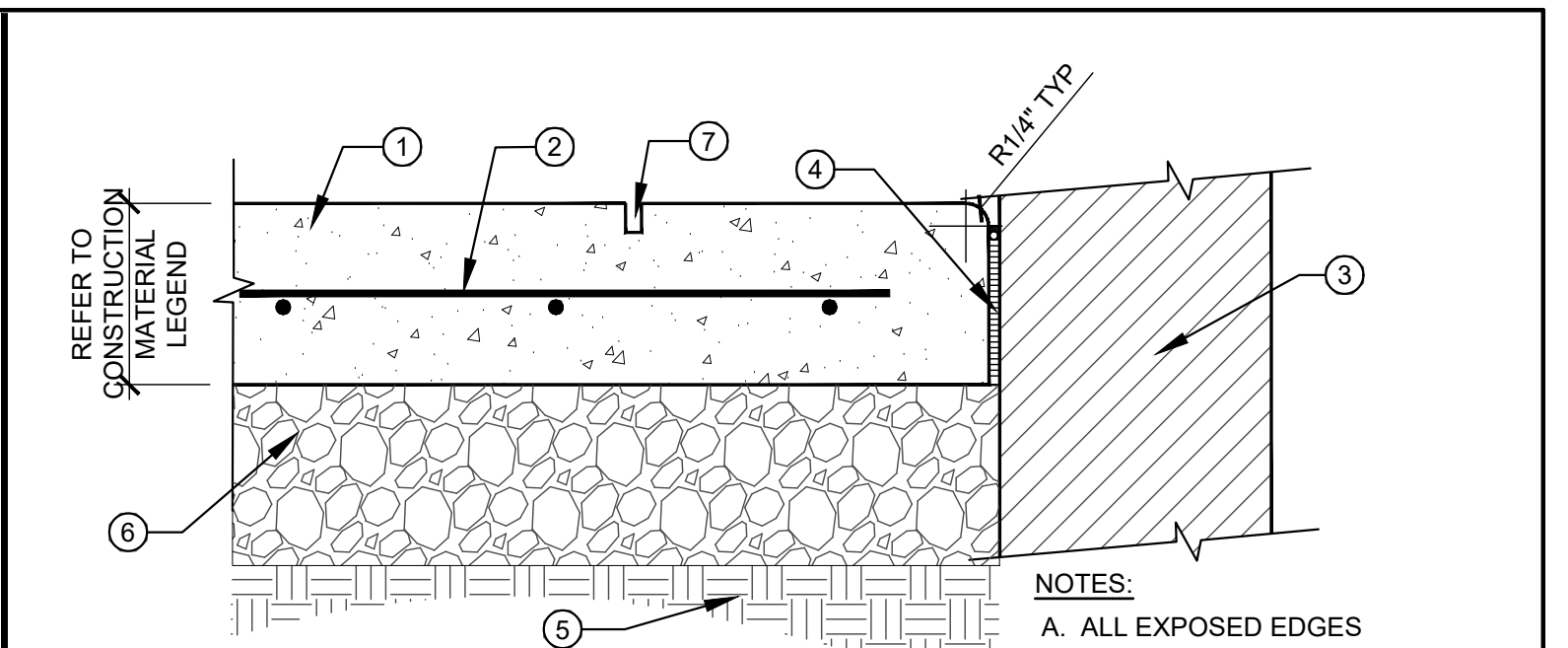
**F DECOMPOSED GRANITE PAVING** NTS



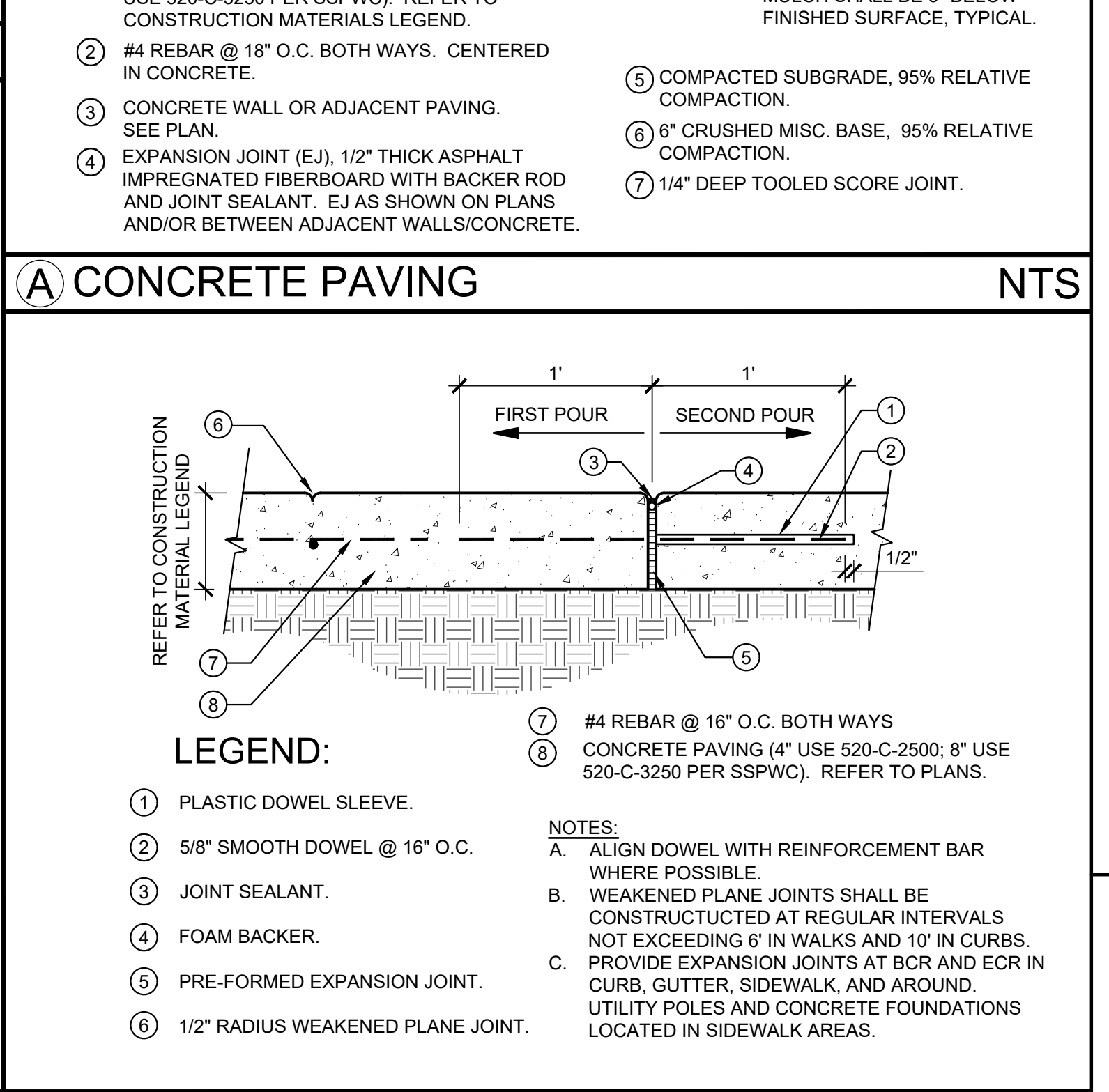
**A CONCRETE PAVING** NTS



**D RIVER ROCK PAVING** NTS



**B PAVING JOINT** NTS



**B PAVING JOINT** NTS

<p>CALL 8-1-1 TOLL FREE</p> <p><b>811</b></p> <p>TWO WORKING DAYS BEFORE YOU DIG</p>	DATE	MK	DESCRIPTION
	REVISIONS		

PROJECT LANDSCAPE ARCHITECT	DATE

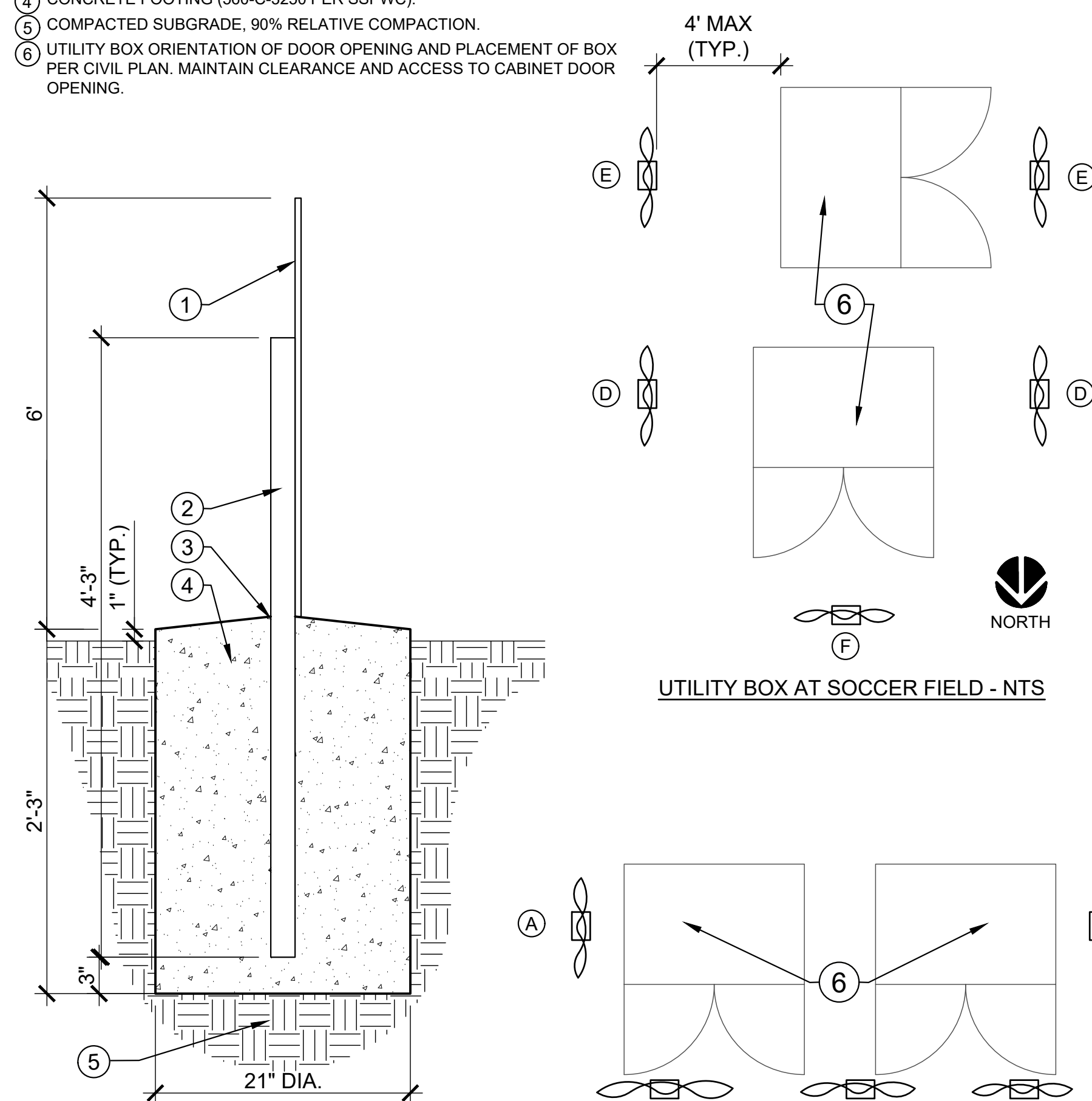
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT LANDSCAPE IMPROVEMENTS	
CONSTRUCTION DETAILS	
PROJ ID NO.	PCA F21812149
SHEET	25 OF 63

**LEGEND:**

- ① 10 GAUGE 304 STAINLESS STEEL METAL LASER JET CUT GRAPHIC, MATTE FINISH. STAINLESS STEEL METAL SHALL NOT BE GLOSSY, REFLECTIVE, OR CAUSE GLARE. GRAPHIC FILE WILL BE PROVIDED BY THE AGENCY TO BE INSTALLED BY THE CONTRACTOR.
- ② 2" SQUARE BY 12 GAUGE 304 STAINLESS STEEL METAL TUBULAR STEEL ANCHOR POST.
- ③ 1/4" THICK WELD ALL AROUND.
- ④ CONCRETE FOOTING (560-C-3250 PER SSPWC).
- ⑤ COMPACTED SUBGRADE, 90% RELATIVE COMPACTION.
- ⑥ UTILITY BOX ORIENTATION OF DOOR OPENING AND PLACEMENT OF BOX PER CIVIL PLAN. MAINTAIN CLEARANCE AND ACCESS TO CABINET DOOR OPENING.

**NOTES:**

- 1. LAYOUT PROPOSED LOCATIONS AND OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION.
- 2. ALL WELDS SHALL BE GROUND SMOOTH AND TOUCH UP PAINT SHALL MATCH STAINLESS STEEL METAL COLOR AND HAVE MATTE FINISH.



**SECTION - NTS**

**PLAN - NTS**

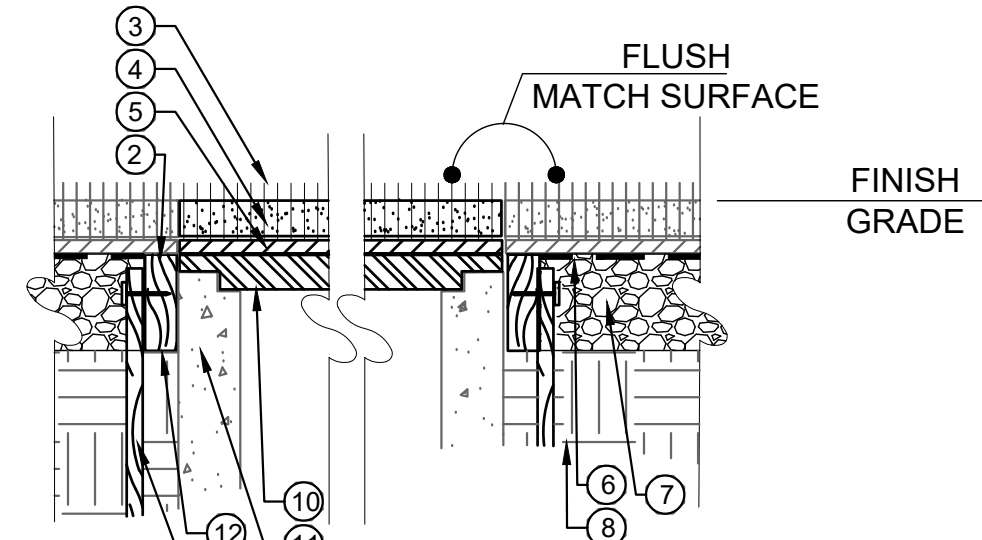
**LEGEND:**

- ① CONCRETE HEADER, REFER TO "ARTIFICIAL TURF FIELD AND DRAINAGE SECTION" DETAIL, THIS SHEET
- ② 2 X 4 INCH TERMINATION BOARD RECYCLED EDGE ANCHOR, (MANUFACTURED BY TREX OR APPROVED EQUAL), REFER TO DETAIL, "ARTIFICIAL TURF EDGE ANCHOR" THIS SHEET
- ③ ARTIFICIAL TURF / SYNTHETIC TURF
- ④ INFILL MATERIAL, REFER TO SPECIAL PROVISIONS, SHALL BE FLUSH WITH TOP OF CONCRETE HEADER
- ⑤ PERFORMANCE PAD, SHALL ABUT ADJACENT MATERIAL AS SHOWN
- ⑥ GEOTEXTILE LINER BY MIRAFI, MODEL: 180X, REFER TO SPECIAL PROVISIONS.
- ⑦ REFER TO DETAIL, "ARTIFICIAL TURF FIELD AND DRAINAGE SECTION" THIS SHEET
- ⑧ SUBBASE COMPACTED TO 95% RELATIVE COMPACTION
- ⑨ EXISTING FENCE FOOTING, REFER TO PLAN
- ⑩ MANHOLE COVER, REFER TO PLAN
- ⑪ MANHOLE SHAFT
- ⑫ 2 X 6 INCH TERMINATION BOARD RECYCLED EDGE ANCHOR (MANUFACTURED BY TREX OR APPROVED EQUAL) REFER TO DETAIL, "ARTIFICIAL TURF EDGE ANCHOR" THIS SHEET
- ⑬ 1 X 2 X 24 INCH STAKE (MANUFACTURED BY TREX OR APPROVED EQUAL), 12 INCHES O.C.

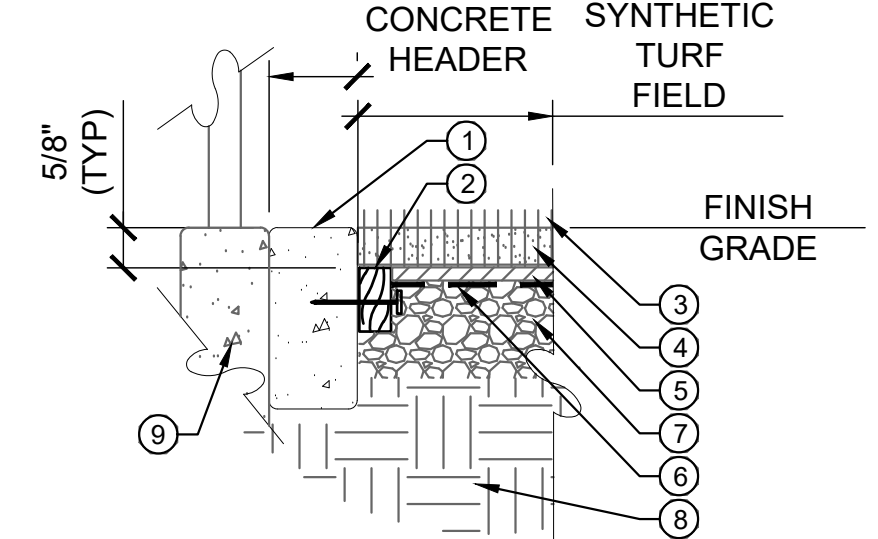
**NOTES:**

- 1. GLUE SYNTHETIC TURF TO PAD, THEN PAD AND TURF TO MANHOLE COVER USING PERMANENT ADHESIVE.
- 2. COLOR OF SYNTHETIC TURF AT UTILITY MANHOLE PER PLAN.
- 3. AT EXISTING TREES, REFER TO CONSTRUCTION NOTES.

**CONDITION AT UTILITY MANHOLE:**

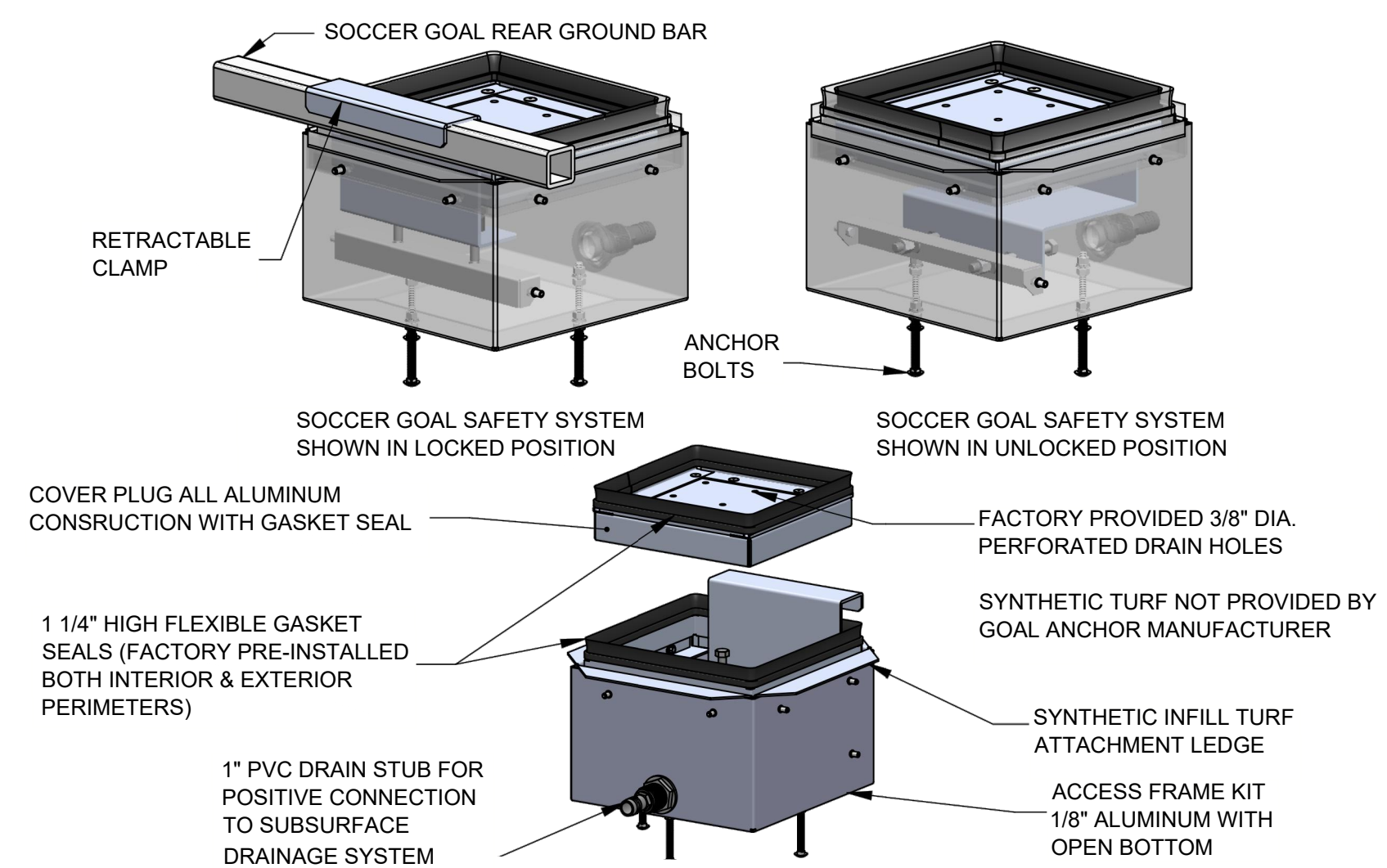


**CONDITION AT CONCRETE HEADER:**



**C ARTIFICIAL TURF EDGE ANCHOR CONDITION**

NTS



**D SOCCER GOAL ANCHOR**

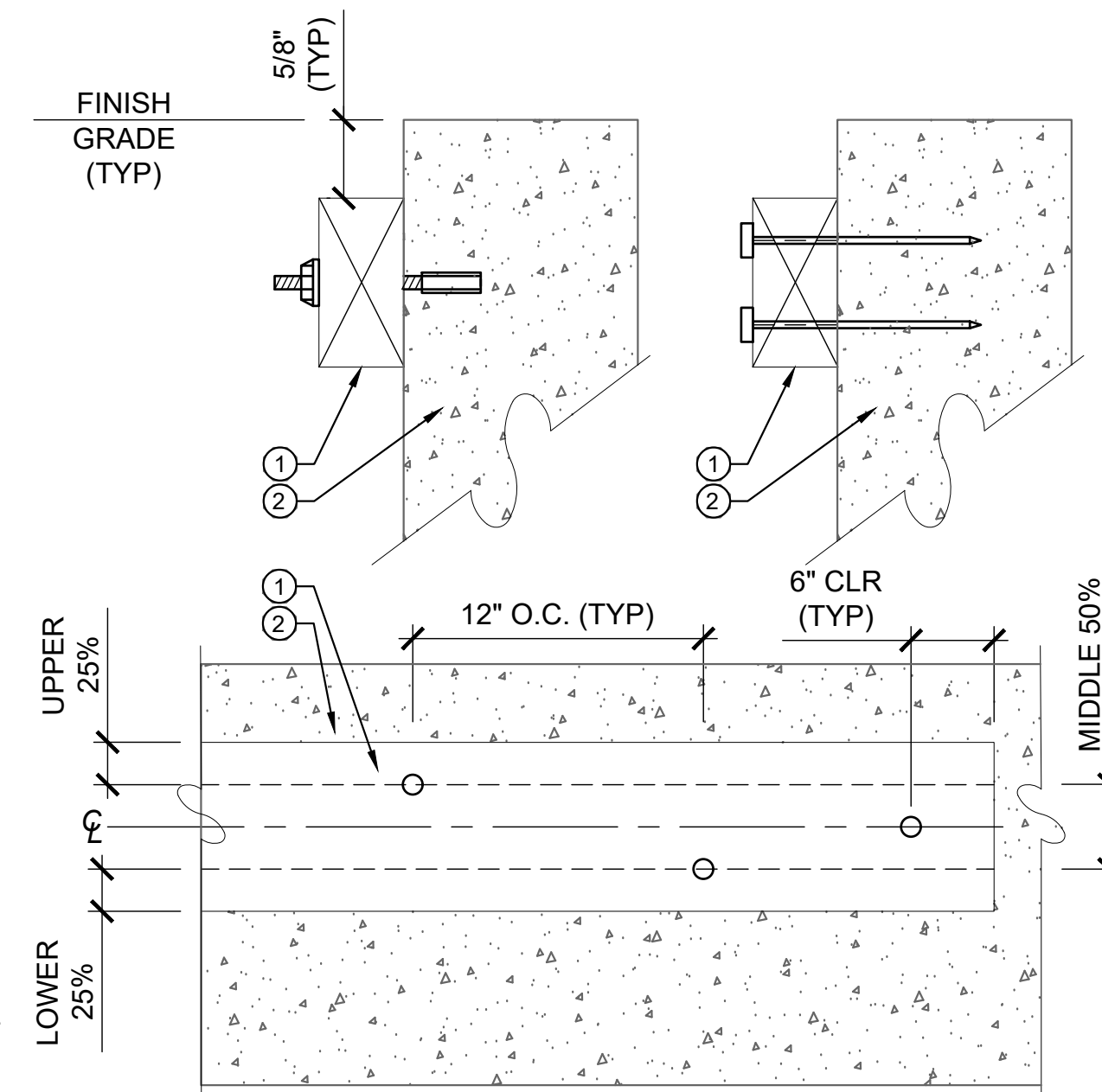
NTS

**LEGEND:**

- ① 2" X 4" AND 2" X 6" TERMINATION BOARD RECYCLED EDGE ANCHOR, (MANUFACTURED BY TREX OR APPROVED EQUAL)
- ② CONCRETE HEADER, REFER TO DETAIL, "ARTIFICIAL TURF FIELD AND DRAINAGE SECTION", THIS SHEET

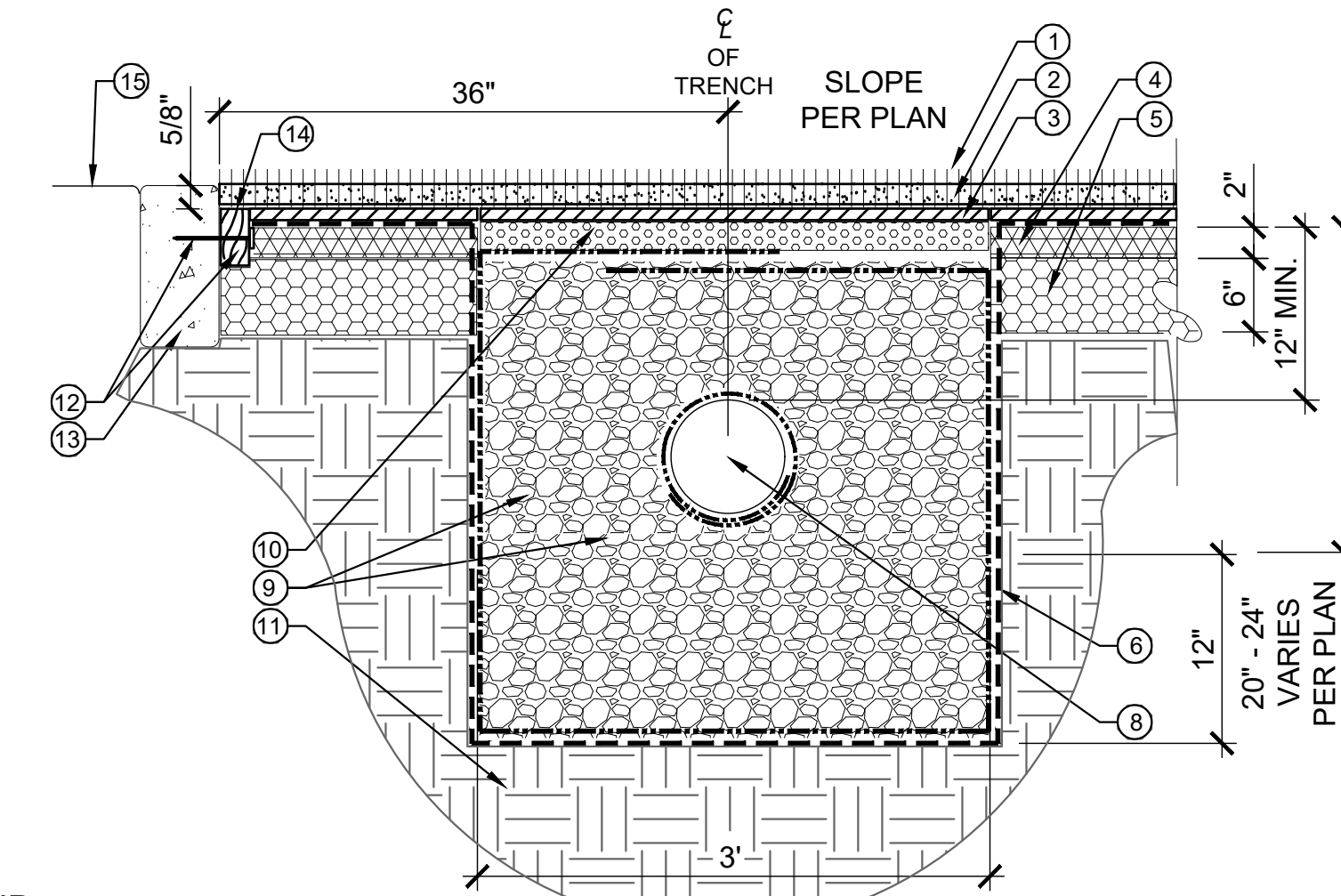
**NOTES:**

- 1. THE PLASTIC EDGE ANCHOR MAY BE TEMPORARILY SET WITH POWER-LOADS PLACED AT THE CONTRACTORS OPTION TO ASSIST IN ESTABLISHING THE PROPER LINE AND GRADE. THIS TEMPORARY HARDWARE MAY REMAIN AFTER FINAL INSTALLATION.
- 2. THE CONTRACTOR MAY CHOOSE TO UTILIZE STEEL POWER-LOAD DRIVEN RAM-SET CONCRETE ANCHOR NAILS, MINIMUM SHANK DIAMETER 5/32", MINIMUM HEAD/WASHER DIAMETER 3/8", SUFFICIENT LENGTH TO ENSURE A MINIMUM 2" EMBEDMENT. INDIVIDUAL ANCHORS SHALL DEVELOP A MINIMUM 450LB SHEAR, 350LB TENSION IN 4,000 PSI CONCRETE AT 2" EMBEDMENT.
- 3. ONCE INITIAL LINE AND GRADE HAS BEEN ESTABLISHED, INSTALL THE SPECIFIED RAM-SET OR POWER-LOAD DRIVEN CONCRETE ANCHORING NAILS IN MANNER CONSISTENT WITH THE APPROVED MANUFACTURER'S INSTRUCTION AND THE SPECIFIED SPACING.
- 4. MINIMUM REQUIREMENTS FOR CONCRETE ANCHOR NAIL INSTALLATION DEPTH OF EMBEDMENT: 2" MINIMUM. HORIZONTAL SPACING: NO GREATER THAN SHOWN AND 6" CLEAR FROM END OF ANY LENGTH OF LUMBER. STAGGER THE SPACING OF EACH ANCHOR UP AND DOWN WITHIN THE MIDDLE ONE-HALF OF THE FACE OF THE RECYCLED EDGE ANCHOR.



**A ARTIFICIAL TURF EDGE ANCHOR**

NTS

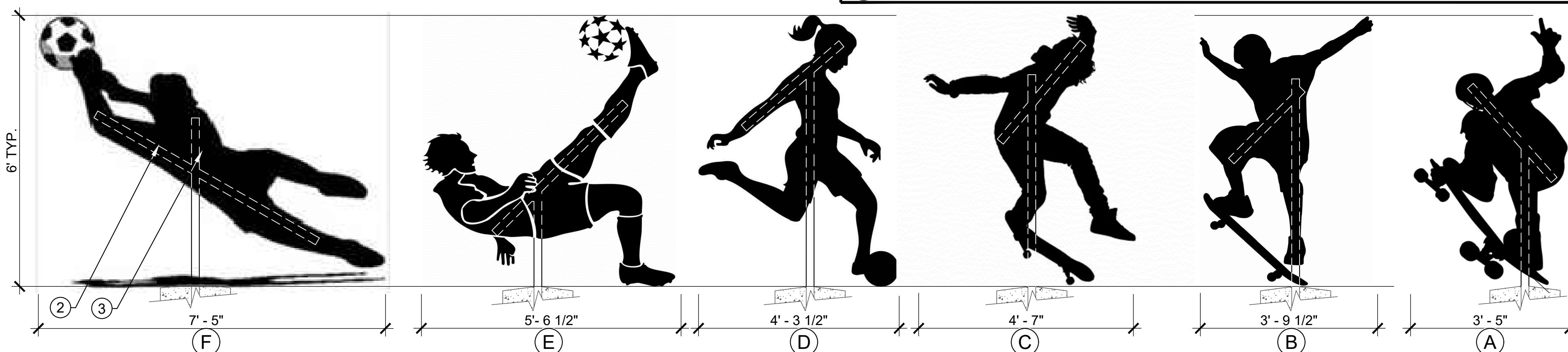


**LEGEND:**

- ① ARTIFICIAL TURF / SYNTHETIC TURF, REFER TO SPECIAL PROVISIONS
- ② SELECTED INFILL, INSTALL AT 1.7 LBS PER SQUARE FOOT. REFER TO SPECIAL PROVISIONS, SHALL BE FLUSH WITH TOP OF CONCRETE HEADER
- ③ PERFORMANCE PAD, REFER TO SPECIAL PROVISIONS, SHALL ABUT ADJACENT MATERIAL AS SHOWN
- ④ LEVELING COURSE, GRADED CONC. AGGREGATE SSPWC 200-1.4 (B) NO. 4 COMPACTED TO 95% RELATIVE COMPACTION
- ⑤ C.M.B. SSPWC 200-2.4.2 COMPACTED TO 95% RELATIVE COMPACTION
- ⑥ GEOTEXTILE LINER BY MIRAFI, MODEL: 180X, REFER TO SPECIAL PROVISIONS.
- ⑦ NOT USED
- ⑧ 8 INCH DRAINLINE PVC PERFORATED PIPE, ASTM D1785/D2665 SCH 80; PATTERN: ASTM F-758 / AASHTO M278, WRAPPED IN GEOTEXTILE NON-WOVEN FABRIC BY MIRAFI, MODEL:140N, REFER TO SPECIAL PROVISIONS. OVERLAP GEOTEXTILE EDGE 12" MIN.
- ⑨ CRUSHED ROCK, SSPWC 200-1.2.1 (A), 3/4" CRUSHED ROCK, WRAPPED IN GEOTEXTILE NON-WOVEN FABRIC BY MIRAFI, MODEL:140N, REFER TO SPECIAL PROVISIONS. OVERLAP GEOTEXTILE EDGE 12" MIN.
- ⑩ TRENCH TOP DRESSING 3/8" CRUSHED ROCK (NO FINES), SSPWC 200-1.2.1 (A), 3/8" CRUSHED ROCK
- ⑪ SUBBASE COMPACTED TO 95% RELATIVE COMPACTION
- ⑫ 2" BY 4" TERMINATION BOARD RECYCLED EDGE ANCHOR, (MANUFACTURED BY TREX OR APPROVED EQUAL), REFER TO "ARTIFICIAL TURF EDGE ANCHOR CONDITION" DETAIL THIS SHEET
- ⑬ 6" BY 12" CONCRETE HEADER, (520-C-2500 PER SSPWC) REFER TO "ARTIFICIAL TURF ANCHOR CONDITION" DETAIL THIS SHEET.
- ⑭ STAPLE TO ANCHOR TURF AS REQUIRED PER MANUFACTURER
- ⑮ ADJACENT SURFACE, REFER TO PLAN

**B ARTIFICIAL TURF FIELD AND DRAINAGE SECTION**

NTS



**ELEVATION - NTS**

**E STAINLESS STEEL LASER CUT GRAPHIC**

NTS

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DATE	MK	DESCRIPTION



PROJECT LANDSCAPE ARCHITECT DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT LANDSCAPE IMPROVEMENTS

CONSTRUCTION DETAILS

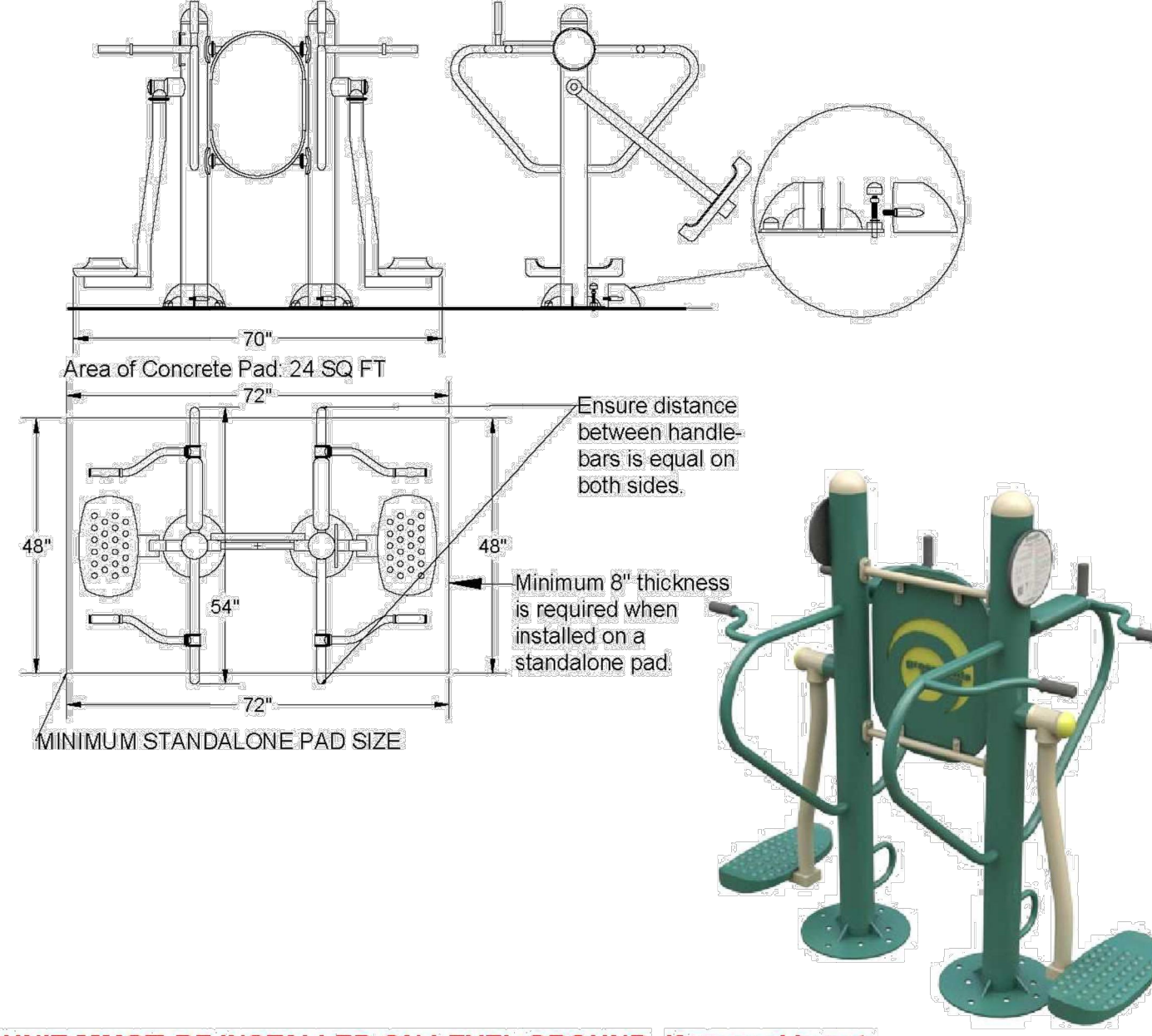
LS-1.09

PROJ ID NO. PCA F21812149 SHEET 26 OF 63

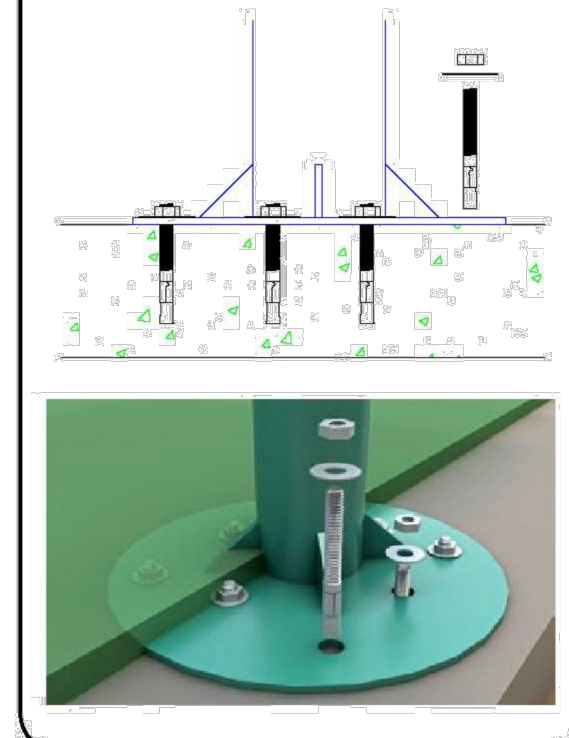
ADDENDUM NO. 1



Model: **SGR2005-1-22**  
Name: **4-Person Pendulum, Abs & Dips**



**Specifications:**  
Concrete: 3250 PSI (minimum)  
**Surface Mount:**  
Minimum Concrete Thickness 6"  
Bolt Size: 1/2"  
Bolt Length: 4-1/2" (minimum)  
Hardware: Wedge Anchor Stainless Steel



In order to honor our commitment to quality and safety, Greenfields Outdoor Fitness reserves the right to make changes and revise the design specifications without notice.

**UNIT MUST BE INSTALLED ON LEVEL GROUND. If ground is not level, use shims to ensure unit's main posts are plumb.**

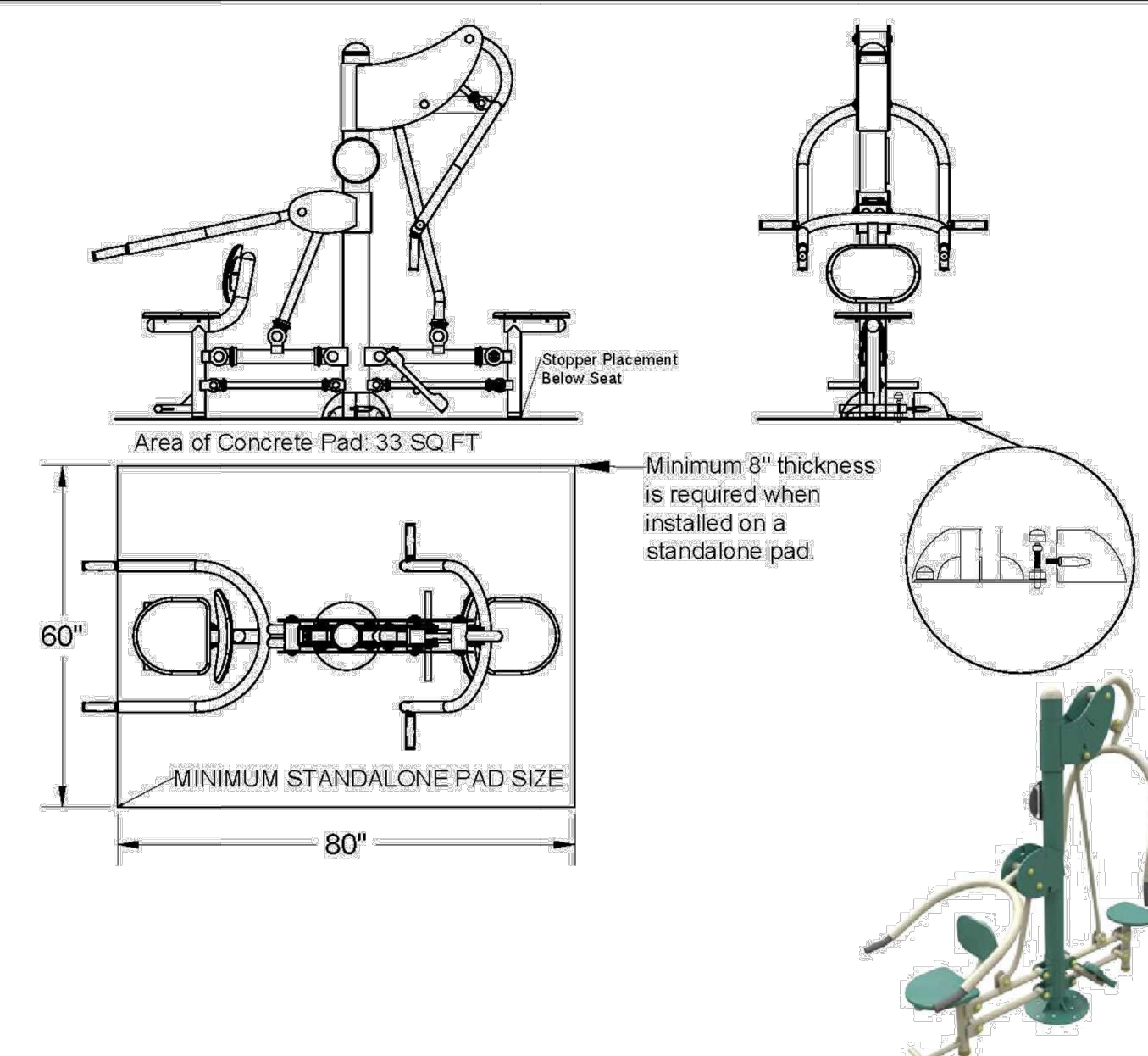
Questions? Please call 888-315-9037

AA/AM20140228

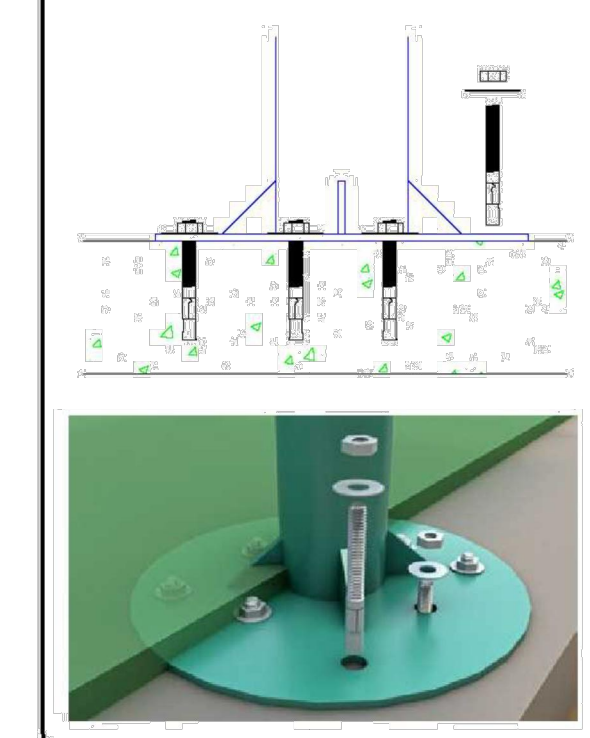
© 2015 Greenfields Outdoor Fitness, Inc.



Model: **SGR2005-1-42**  
Name: **2-Person Upper Body Combo**



**Specifications:**  
Concrete: 3250 PSI (minimum)  
**Surface Mount:**  
Minimum Concrete Thickness 6"  
Bolt Size: 1/2"  
Bolt Length: 4-1/2" (minimum)  
Hardware: Wedge Anchor Stainless Steel



In order to honor our commitment to quality and safety, Greenfields Outdoor Fitness reserves the right to make changes and revise the design specifications without notice.

**UNIT MUST BE INSTALLED ON LEVEL GROUND. If ground is not level, use shims to ensure unit's main post is plumb.**

Questions? Please call 888-315-9037

AA/AM20140227

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**PARCOURSE EQUIPMENT NOTES:**

- REFER TO PLAN FOR LOCATIONS. EQUIPMENT MANUFACTURER AND MODEL NUMBERS AS SHOWN ON THIS SHEET.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS ON PROPOSED CONCRETE PER PLAN. REFER TO DETAIL (C), PARCOURSE CONCRETE FOOTING, LS-1.08.
- CONTRACTOR SHALL FIELD MARK THE ORIENTATION OF THE EQUIPMENT AND RECEIVE FINAL APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION.

**(A) PARCOURSE EQUIPMENT: STATION NO. 1**

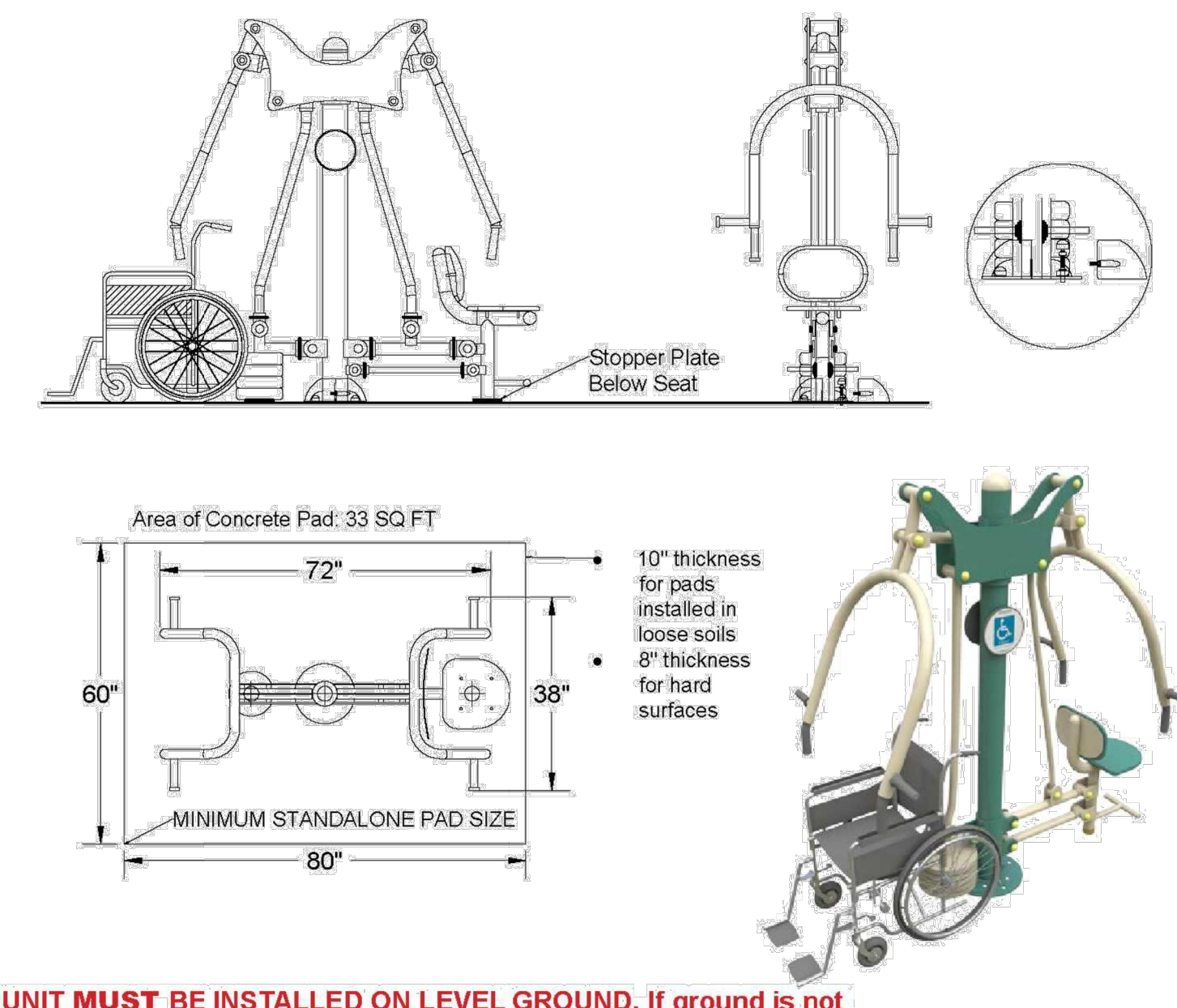
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**(B) PARCOURSE EQUIPMENT: STATION NO. 2**

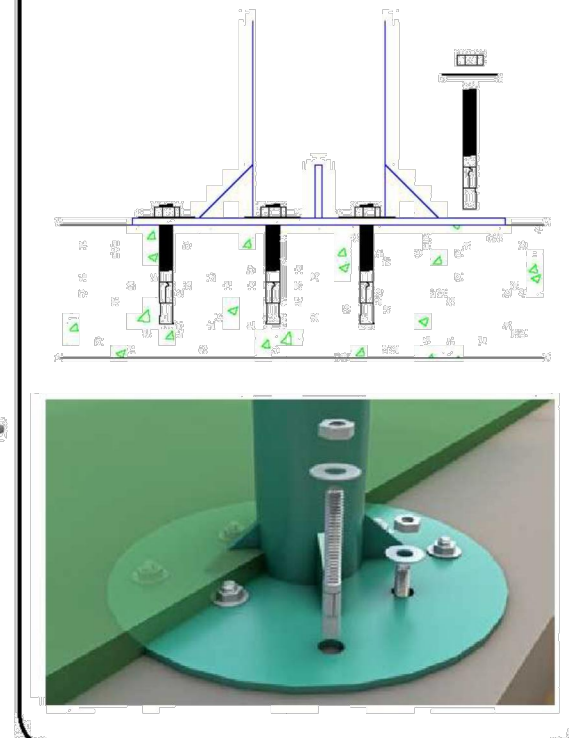
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Model: **SGR2005-1-48A-W**  
Name: **2-Person Accessible Chest Press**  
U.S. Pat. No. 9,079,069 B1



**Specifications:**  
Concrete: 3250 PSI (minimum)  
**Surface Mount:**  
Minimum Concrete Thickness 6"  
Bolt Size: 1/2"  
Bolt Length: 4-1/2" (minimum)  
Hardware: Wedge Anchor Stainless Steel



In order to honor our commitment to quality and safety, Greenfields Outdoor Fitness reserves the right to make changes and revise the design specifications without notice.

**UNIT MUST BE INSTALLED ON LEVEL GROUND. If ground is not level, use shims to ensure unit's main post is plumb.**

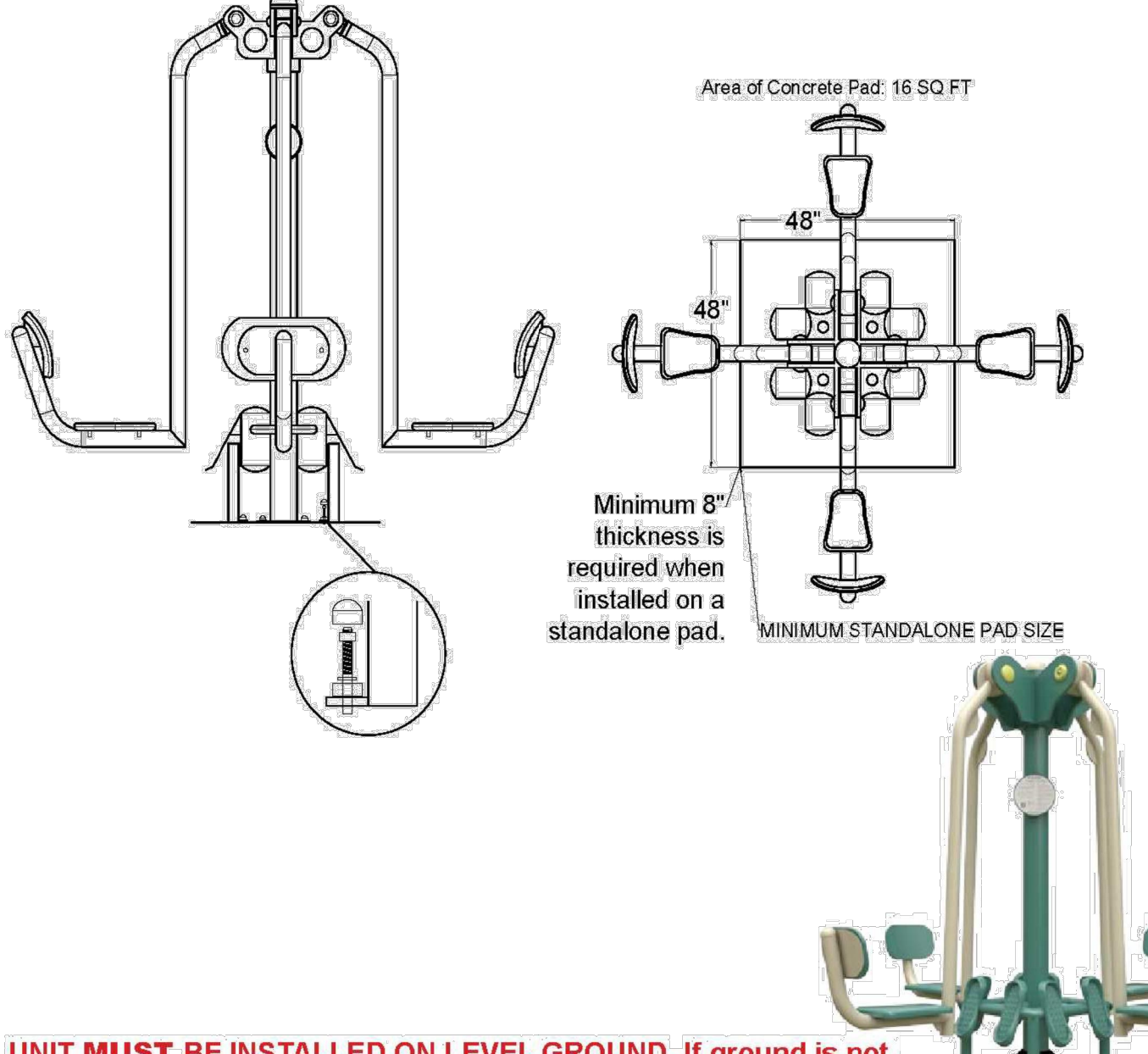
Questions? Please call 888-315-9037

AA/AM20141203

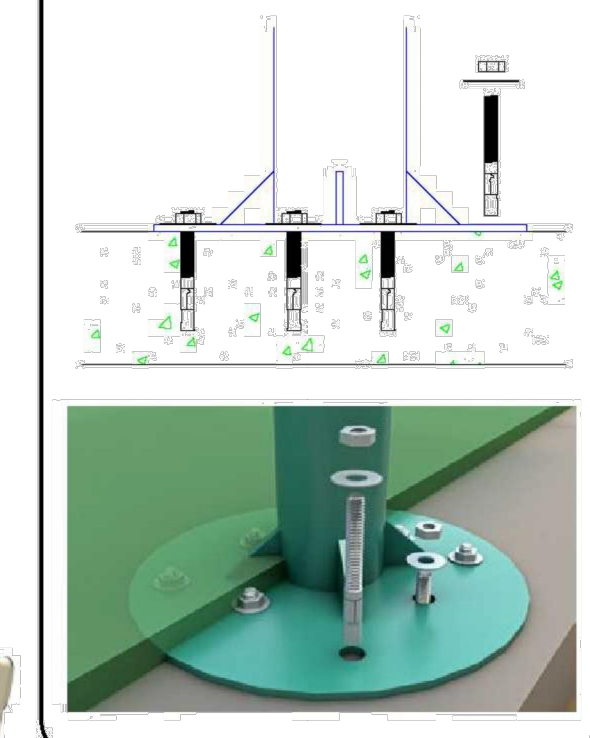
© 2015 Greenfields Outdoor Fitness, Inc.



Model: **SGR2005-1-104N**  
Name: **4-Person Leg Press**



**Specifications:**  
Concrete: 3250 PSI (minimum)  
**Surface Mount:**  
Minimum Concrete Thickness 6"  
Bolt Size: 1/2"  
Bolt Length: 4-1/2" (minimum)  
Hardware: Wedge Anchor Stainless Steel



In order to honor our commitment to quality and safety, Greenfields Outdoor Fitness reserves the right to make changes and revise the design specifications without notice.

**UNIT MUST BE INSTALLED ON LEVEL GROUND. If ground is not level, use shims to ensure unit's main post is plumb.**

Questions? Please call 888-315-9037

AA/AM20140225

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**(C) PARCOURSE EQUIPMENT: STATION NO. 3**

NTS

**(D) PARCOURSE EQUIPMENT: STATION NO. 4**

NTS

CALL 8-1-1 TOLL FREE



TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

FRANKLIN D. ROOSEVELT PARK REGIONAL  
STORMWATER CAPTURE PROJECT  
LANDSCAPE IMPROVEMENTS

CONSTRUCTION DETAILS

LS-1.010

PROJ ID NO. PCA F21812149 SHEET 27 OF 63

ADDENDUM NO. 1

**IRRIGATION CONTROLLER LEGEND**

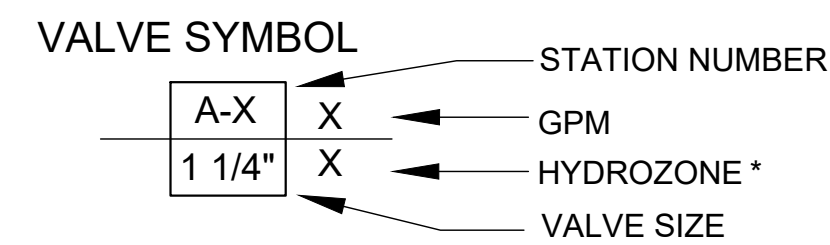
SYMBOL	MANUFACTURER	DESCRIPTION	MODEL/TYPE	SIZE	DETAIL
	WEATHERTRAK	CONTROLLER "C": SERIAL NO. 07100566 EXISTING PRO-2 LOCATED IN KINDERGARTEN STORAGE ROOM UPGRADED TO NEW PRO-3 W/(96) STATIONS. INCLUDE PUMP RELAY AND DATA PLAN FOR 5 YEARS OF CELLULAR SERVICE INCLUDED. INSTALL CONTROLLER WITH CA7 STRONGBOX: SB22SS (24"W x 38"H x 17"D) TOP ENTRY ENCLOSURE METAL CABINET MOUNTED ON CONCRETE PAD, REFER TO SPECIAL PROVISION AND IRRIGATION INSTALLATION NOTES.	ET-PRO-3	96 STATION	I/LS-2.03
		CONTROLLER "A": SERIAL NO. 07100242 EXISTING PRO-2 LOCATED IN KINDERGARTEN STORAGE ROOM TURNED OVER TO DPR. REFER TO IRRIGATION INSTALLATION NOTES.	-	-	
		CONTROLLER "B": SERIAL NO. 07100583 EXISTING PRO-2 LOCATED IN KINDERGARTEN STORAGE ROOM TURNED OVER TO DPR. REFER TO IRRIGATION INSTALLATION NOTES.	-	-	
		CONTROLLER "D": SERIAL NO. 07100222 EXISTING PRO-2 LOCATED ADJACENT TO PUMP STATION TO REMAIN. REFER TO IRRIGATION INSTALLATION NOTES.	-	42 STATION	-

NOTE:  
WEATHERTRAK REPRESENTATIVE CONTACT INFORMATION - CHRIS SHREENAN - TEL: (707) 338-9303.

**IRRIGATION EQUIPMENT LEGEND**

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL/TYPE	SIZE	DETAIL
	REMOTE CONTROL VALVE	SUPERIOR, REFER TO SPECIAL PROVISIONS	950	PER PLAN	F/LS-2.03
	REMOTE CONTROL VALVE WITH WATER CANNON, INCLUDES VAULT, AND OPENING FOR QUICK COUPLER VALVE	HUNTER OR AGENCY APPROVED EQUAL	VAULT: ST173026B NOZZLE: STG900	PER PLAN	G/LS-2.03
	QUICK COUPLER	RAINBIRD, REFER TO SPECIAL PROVISIONS	33 DLRC	.75"	D/LS-2.03
	EXISTING WATER METER	REFER TO IRRIGATION INSTALLATION NOTES		-	B/LS-2.04
	EXISTING BACKFLOW ASSEMBLY	-	-	-	
	COMBO MASTER VALVE AND FLOW METER	HYDROPOINT	FLOW 3 SERIES	LINE SIZE	A/LS-2.03 & B/LS-2.04
	PUMP STATION	RAINBIRD OR AGENCY APPROVED EQUAL	D-SERIES	20 HP	B & C/LS-2.04
	RAIN SENSOR - W/STAINLESS STEEL ENCLOSURE	SENSOR: HUNTER; ENCLOSURE: HUNTER, REFER TO SPECIAL PROVISIONS	SENSOR: BY HUNTER, MODEL: MINICLIK ENCLOSURE: BY HUNTER, MODEL: SG-MC	-	B/LS-2.04 I/LS-2.03
	PRESSURE REGULATOR	CLA-VAL, REFER TO SPECIAL PROVISIONS	90-23	LINE SIZE	A & B/LS-2.04
	GATE VALVE	NIBCO, REFER TO SPECIAL PROVISIONS	T-113	LINE SIZE	B/LS-2.03
	MAIN LINE - EXISTING		REFER TO SPECIAL PROVISIONS	SEE PLAN	C/LS-2.03
	MAIN LINE		REFER TO SPECIAL PROVISIONS	SEE PLAN	
	PVC LATERAL LINE		REFER TO SPECIAL PROVISIONS	SEE PLAN	
	PIPE SLEEVE	SEE SLEEVING CHART		SEE PLAN	
	CONDUIT	SEE SLEEVING CHART		SEE PLAN	

SLEEVING CHART				PIPE SIZING CHART	
SLEEVE SIZE	PVC CLASS	PIPE SIZE	WIRES	GPM	PIPE SIZE
1.25"	SCH 40	0.5"	1 - 4		
1.5"	SCH 40	0.75"	5 - 10	1 - 7	0.75"
2"	CLASS 315	1"	11 - 20	9 - 12	1"
2.5"	CLASS 315	1.25"	21 - 30	14 - 22	1.25"
3"	CLASS 315	1.5"	31 - 40	23 - 30	1.50"
4"	CLASS 315	2"	41 - 60	31 - 50	2"
6"	SCH 80	2.5 - 3"	61 - 99	51 - 70	2.5"



\* HYDROZONE - PLANT FACTOR (WATER NEEDS)

HYDROZONE	PLANT FACTOR
H = HIGH	0.7 - 1.0
M = MODERATE	0.4 - 0.6
L = LOW	0.1 - 0.3
VL = VERY LOW	< 0.1

**IRRIGATION SPRINKLER LEGEND**

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	NOZZEL	RADIUS	GPM	PSI	PATTERN	DETAIL
	REMOTE CONTROL VALVE WITH WATER CANNON	HUNTER OR AGENCY APPROVED EQUAL	ST-90, STK-1	73	110	75	100	FULL	G/LS-2.03
	12" POP-UP ROTARY SPRAY HEAD	RAINBIRD	1812-SAM-PRS	R-VAN 1724	24	2.26	30	FULL	H/LS-2.03
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	R-VAN 1724	24	1.41	30	HALF	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	R-VAN 1724	24	0.73	30	QUARTER	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN - F	15	3.70	30	FULL	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN - H	15	1.85	30	HALF	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN - Q	15	0.93	30	QUARTER	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN - H	12	1.18	30	HALF	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN - Q	12	0.59	30	QUARTER	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN - H	10	0.89	30	HALF	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN - Q	10	0.45	30	QUARTER	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN - H	8	0.59	30	FULL	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN - Q	8	0.29	30	QUARTER	
	TREE BUBBLER		RWS-B-1402 WITH SOCK	1402	--	0.50	30	FULL	E/LS-2.03
	TREE BUBBLER		RWS-B-1401 WITH SOCK	1401	--	0.25	30	FULL	

**IRRIGATION INSTALLATION NOTES:**

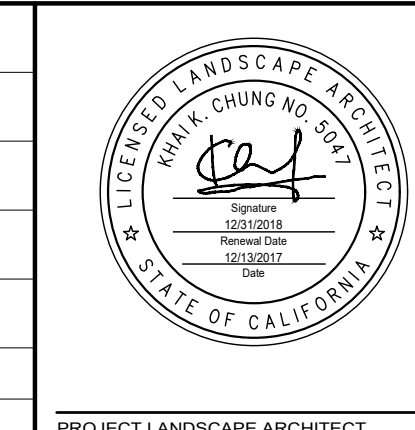
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION. WORK SHOWN ON THE IRRIGATION PLANS IS DIAGRAMMATIC. LOCATE NEW IRRIGATION LINES, VALVES, AND EQUIPMENT IN PLANTING AREAS WHEREVER POSSIBLE. AVOID LOCATING LINES WHERE MAJOR TREES EXIST AND ARE PROPOSED.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING TREES AND OTHER PLANTS IN THE AREAS OF WORK PRIOR TO START OF CONSTRUCTION. IF ANY OF THE INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL CONDITIONS IN THE FIELD, IMMEDIATELY NOTIFY THE ENGINEER.
- CONTRACTOR SHALL INSTALL NEW WIRES TO MAKE CONNECTIONS TO PROVIDE AN OPERATIONAL ELECTRICAL AUTOMATIC IRRIGATION SYSTEM. CONTRACTOR SHALL PAY FOR AND REQUEST THE MANUFACTURER'S REPRESENTATIVE, FOR THE AUTOMATIC IRRIGATION CONTROLLER TO BE INSPECTED AND HAVE THE CONTROLLER CERTIFIED PRIOR TO THE START OF THE PLANT ESTABLISHMENT PERIOD. THE MANUFACTURER'S REPRESENTATIVE SHALL ALSO ASSIST THE CONTRACTOR WITH PROGRAMMING THE SYSTEM AND SHALL PROVIDE A MINIMUM OF ONE (1) TRAINING SESSION TO THE AGENCY'S MAINTENANCE STAFF AT CONCLUSION OF THE PLANT ESTABLISHMENT PERIOD. CONTRACTOR SHALL PROVIDE CONFIRMATION FROM THE MANUFACTURER'S REPRESENTATIVE THAT ALL DATA PLANS HAVE BEEN PAID FOR AND ACTIVATED.
- IRRIGATION CONTROLLERS:
  - REFER TO IRRIGATION CONTROLLER LEGEND AND DETAILS FOR MANUFACTURER, MODEL NUMBERS, AND OTHER INFORMATION.
  - THERE ARE FOUR (4) SEPARATE EXISTING IRRIGATION CONTROLLERS: CONTROLLERS "A", "B", AND "C" ARE LOCATED IN THE KINDERGARTEN STORAGE ROOM. CONTROLLER "D" IS LOCATED ADJACENT TO PUMP STATION.
  - CONTRACTOR SHALL INSTALL A NEW PULL BOX IMMEDIATELY OUTSIDE THE KINDERGARTEN BUILDING TO RE-ROUTE ALL EXISTING CONTROLLER WIRES FOR CONTROLLERS "A", "B", AND "C" AND ROUTE THEM TO THE NEW LOCATION FOR CONTROLLER "C" WHICH IS ADJACENT TO BOTH CONTROLLER "D" AND THE PROPOSED PUMP. USE AT A MINIMUM 12 GAUGE IRRIGATION WIRE TO ACCOMMODATE THE ADDITIONAL LENGTH NEEDED TO "RUN" WIRE FROM LOCATION OF EXISTING CONTROLLERS AT KINDERGARTEN ROOM TO PROPOSED NEW LOCATION FOR CONTROLLER "C" AND CONTROLLER "D".
  - CONNECT ALL STATIONS TO CONTROLLER "C" FIRST AND AFTER CAPACITY IS REACHED, CONNECT TO REMAINING AVAILABLE STATIONS TO CONTROLLER "D" TERMINALS AS NECESSARY.
  - CONTRACTOR SHALL REMOVE EXISTING CONTROLLERS "A" AND "B" AND TURNOVER TO LA COUNTY DEPARTMENT OF PARKS AND RECREATION REPRESENTATIVE IDENTIFIED ON PLANS, REFER TO GENERAL CONSTRUCTION AND REMOVAL NOTES, LS-1.00.
  - CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS AND ADJUSTMENTS TO ENSURE THAT ALL COMPONENTS OF THE IRRIGATION SYSTEM PERFORM PROPERLY DURING CONSTRUCTION AND MAINTENANCE PERIODS.
  - CONTRACTOR SHALL BE RESPONSIBLE TO PROGRAM THE AUTOMATIC IRRIGATION CONTROLLER(S) SO THE SYSTEM SHALL BE FULLY OPERATIONAL TO DETECT MAIN AND LATERAL LINE BREAKAGE.
- MOUNT NEW RAIN SENSOR TO CONTROLLER "C" ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS.
- PUMP STATION. REFER TO IRRIGATION LEGEND FOR DETAILS FOR MANUFACTURER, MODEL NUMBERS, AND OTHER INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ALL NECESSARY CONNECTIONS FOR PUMP STATION AND FOR IT TO OPERATE WHEN THE CONTROLLER IS IN OPERATIONS. FOR ELECTRICAL CONNECTION, REFER TO PLAN EE.
- NEW PRESSURE REGULATOR SHALL BE INSTALLED ON THE EXISTING MAINLINE TO PROTECT IRRIGATION SYSTEM NOT DEDICATED TO SERVICING THE ARTIFICIAL TURF SPORTS FIELD. INSTALL "T" FITTING OFF OF NEW MAINLINE WITH NEW PRESSURE REGULATOR TO PREVENT EXCESS PSI PRESSURE ENTERING AND DAMAGING THE PARK'S EXISTING IRRIGATION SYSTEM ALSO SERVICED BY THE NEW PUMP STATION.
- MAIN LINE TO VALVE CONNECTION AND LATERAL SUPPLY LINES FROM THE VALVE TO THE FIRST HEAD SHALL BE ONE SIZE LARGER THAN THE VALVE, UNLESS OTHERWISE NOTED.
- INSTALL CROSS OVER SLEEVES (CLASS 315 PVC UNLESS NOTED OTHERWISE) WHERE SHOWN ON THE PLANS, AT INTERSECTIONS, AND WHEREVER PIPE CROSSES UNDER PAVEMENT INCLUDING UNDER RIVER ROCK PAVING. ALL SLEEVES SHALL EXTEND 6" INTO PLANTING AREAS AT BOTH ENDS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SLEEVES PRIOR TO PAVING BEING INSTALLED. NOT ALL SLEEVES MAY BE INDICATED ON PLAN.
- FOR TRENCH REPAIR INFORMATION, REFER TO PIPE TRENCHING DETAIL C/LS-2.03.
- HAND DIGGING IS REQUIRED FOR WORK DONE WITHIN DRIPLINE OF EXISTING TREES. REFER TO TREE PROTECTION PLAN, LS-1.01.
- LOCATE NEW MAINLINE IN PLANTING AREAS AND ALIGN WITH EXISTING WALKWAYS WHEREVER POSSIBLE.
- CONTRACTOR SHALL ADJUST EXACT LOCATIONS OF IRRIGATION PIPE TO AVOID CATCH BASINS AND OTHER SITE AMENITIES. LOCATE MAINLINE IN PLANTING AREA/TURF WHERE POSSIBLE.
- REPAIR ALL EXISTING MATERIALS DAMAGED OR EXPOSED BY NEW IRRIGATION INSTALLATION WORK OR BY ANY OTHER CONSTRUCTION WORK, MATCH EXISTING ADJACENT WORK IN TEXTURE AND COLOR.
- ALL TREES ARE TO BE WATERED BY A SEPARATE BUBBLER SYSTEM. SEE IRRIGATION DETAIL FOR BUBBLER INSTALLATION.
- ADJUST LOCATION OF IRRIGATION NOZZLES OR ADD ADDITIONAL NOZZLES AND EQUIPMENT AS NECESSARY TO MINIMIZE INTERFERENCE AGAINST OBSTRUCTIONS (CONCRETE WALLS, TELEPHONE AND POWER POLES, TREES, ETC.).
- ALL IRRIGATION NOZZLES, BUBBLERS, AND FITTINGS SHALL BE FROM THE SAME MANUFACTURER AND PRODUCT LINE.
- CONTRACTOR SHALL MODIFY EXISTING IRRIGATION AND VALVE EQUIPMENT TO REFLECT NEW LAYOUT ON PLANS.

CALL 8-1-1 TOLL FREE



TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION

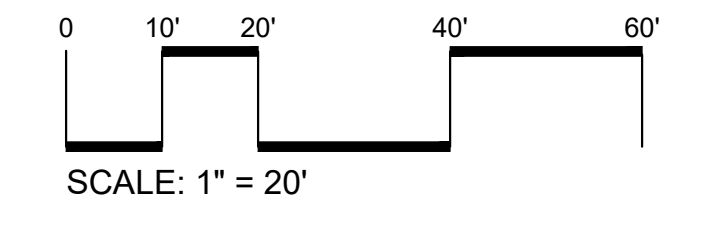
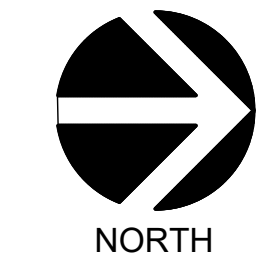
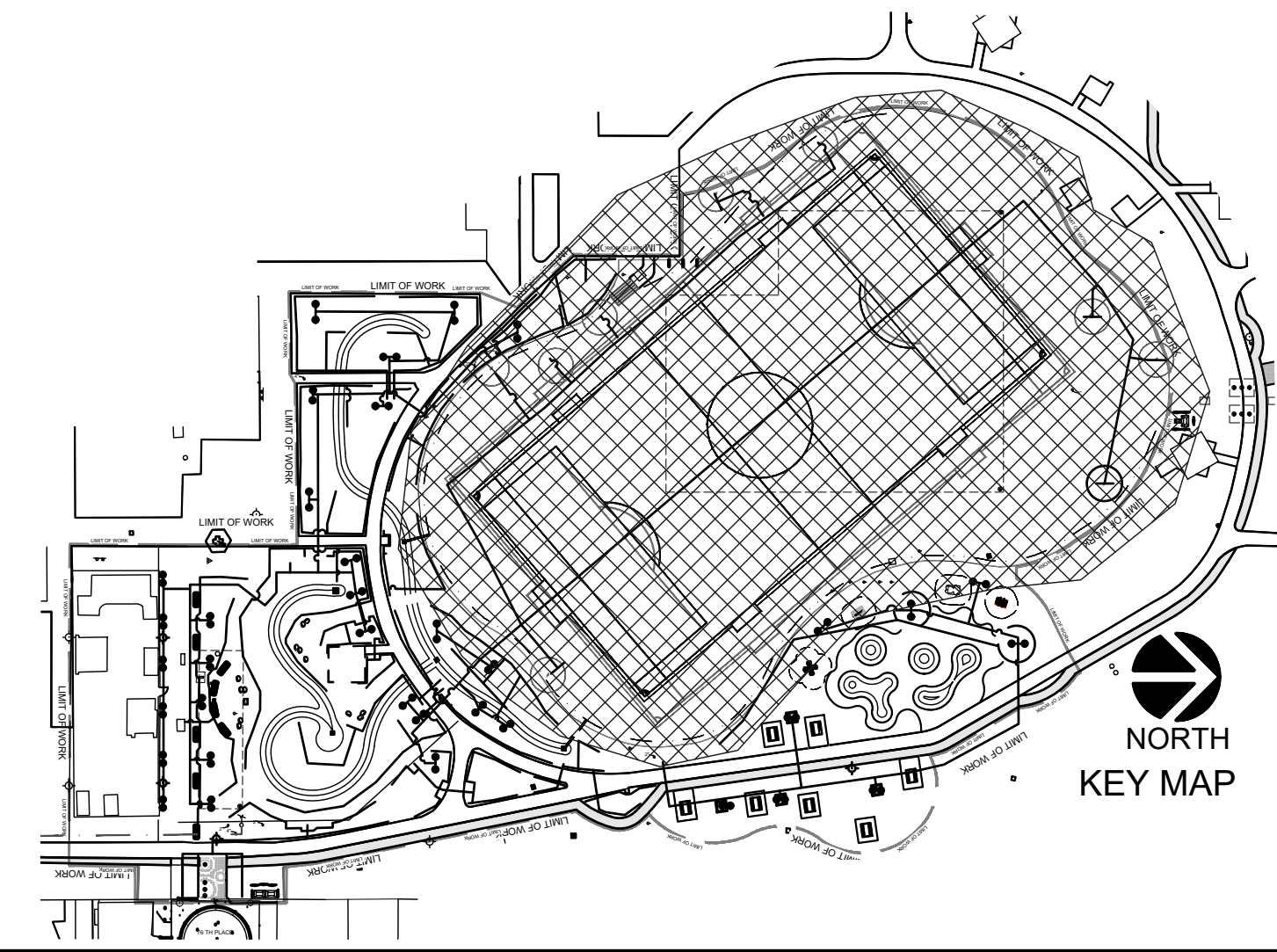
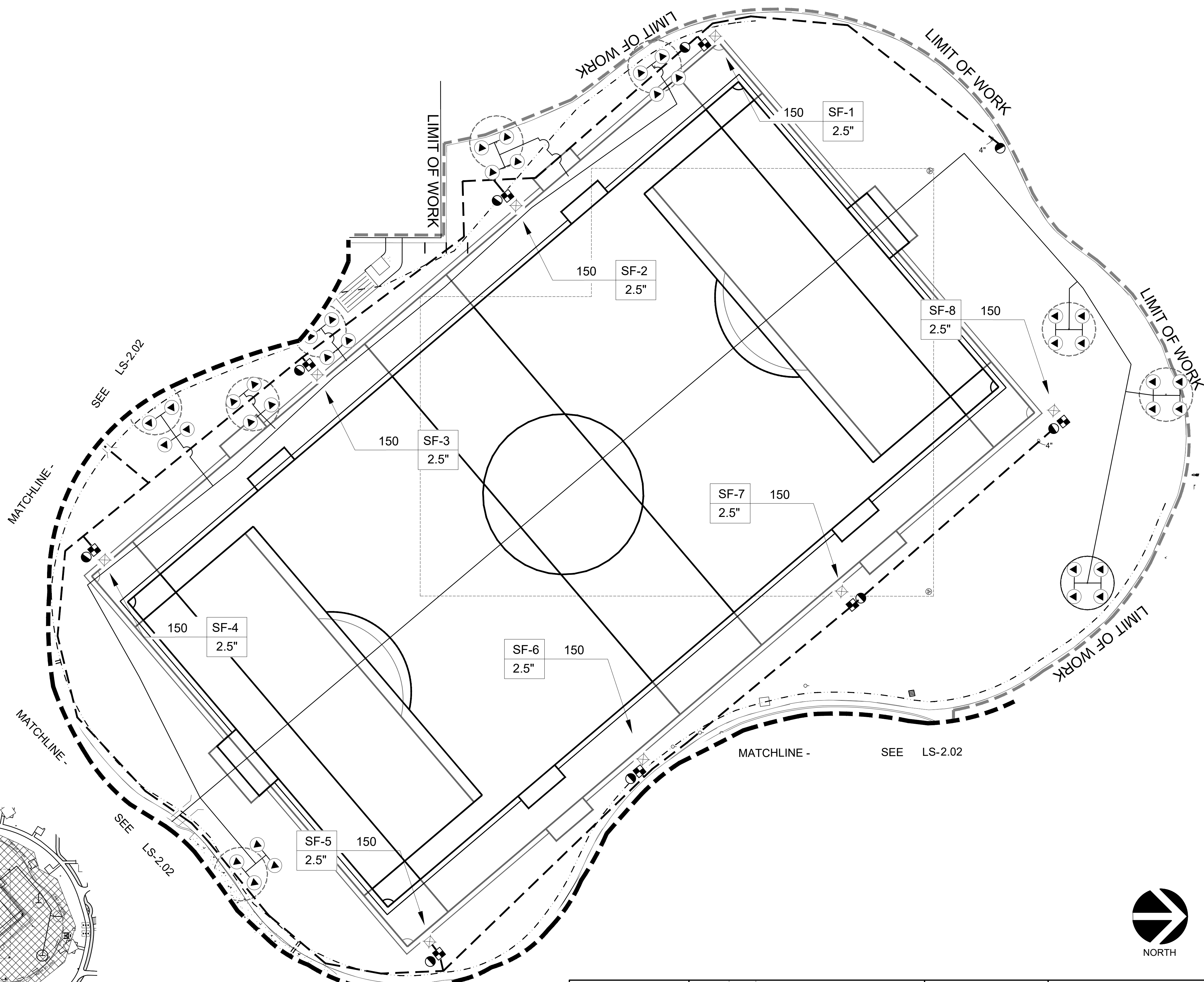


COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT LANDSCAPE IMPROVEMENTS**

IRRIGATION NOTES AND LEGEND LS-2.00

PROJECT LANDSCAPE ARCHITECT DATE PROJ ID NO. PCA F21812149 SHEET 28 OF 63



CALL 8-1-1 TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

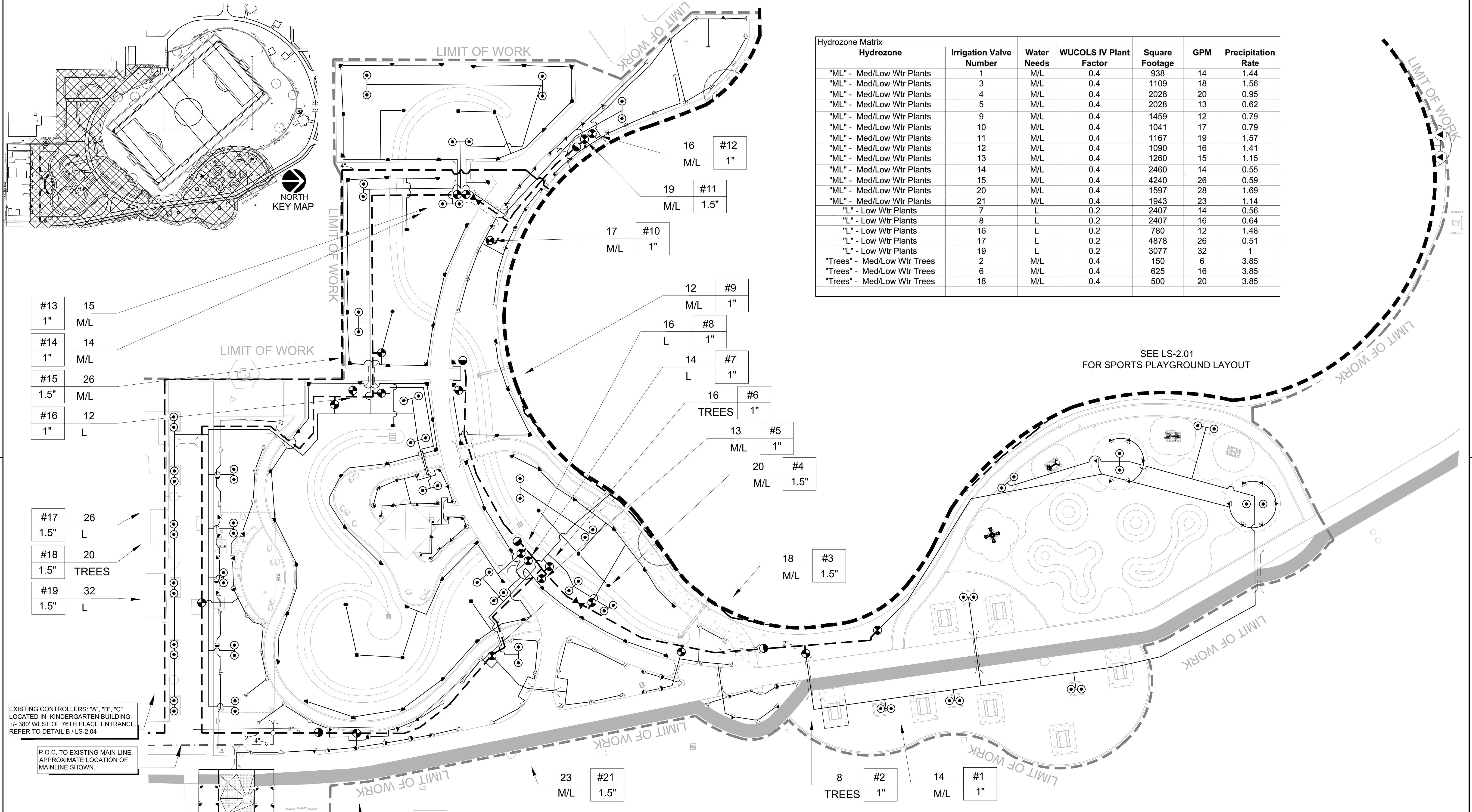
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REVISIONS		

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
 LANDSCAPE IMPROVEMENTS  
 IRRIGATION PLAN:  
 SOCCER FIELD LAYOUT

LS-2.01

PROJ ID NO. PCA F21812149 SHEET 29 OF 63



Hydrozone	Irrigation Valve Number	Water Needs	WUCOLS IV Plant Factor	Square Footage	GPM	Precipitation Rate
"ML" - Med/Low Wtr Plants	1	M/L	0.4	938	14	1.44
"ML" - Med/Low Wtr Plants	3	M/L	0.4	1109	18	1.56
"ML" - Med/Low Wtr Plants	4	M/L	0.4	2028	20	0.95
"ML" - Med/Low Wtr Plants	5	M/L	0.4	2028	13	0.62
"ML" - Med/Low Wtr Plants	9	M/L	0.4	1459	12	0.79
"ML" - Med/Low Wtr Plants	10	M/L	0.4	1041	17	0.79
"ML" - Med/Low Wtr Plants	11	M/L	0.4	1167	19	1.57
"ML" - Med/Low Wtr Plants	12	M/L	0.4	1090	16	1.41
"ML" - Med/Low Wtr Plants	13	M/L	0.4	1260	15	1.15
"ML" - Med/Low Wtr Plants	14	M/L	0.4	2460	14	0.55
"ML" - Med/Low Wtr Plants	15	M/L	0.4	4240	26	0.59
"ML" - Med/Low Wtr Plants	20	M/L	0.4	1597	28	1.69
"ML" - Med/Low Wtr Plants	21	M/L	0.4	1943	23	1.14
"L" - Low Wtr Plants	7	L	0.2	2407	14	0.56
"L" - Low Wtr Plants	8	L	0.2	2407	16	0.64
"L" - Low Wtr Plants	16	L	0.2	780	12	1.48
"L" - Low Wtr Plants	17	L	0.2	4878	26	0.51
"L" - Low Wtr Plants	19	L	0.2	3077	32	1
"Trees" - Med/Low Wtr Trees	2	M/L	0.4	150	6	3.85
"Trees" - Med/Low Wtr Trees	6	M/L	0.4	625	16	3.85
"Trees" - Med/Low Wtr Trees	18	M/L	0.4	500	20	3.85

- #13 15  
1" M/L
- #14 14  
1" M/L
- #15 26  
1.5" M/L
- #16 12  
1" L

- #17 26  
1.5" L
- #18 20  
1.5" TREES
- #19 32  
1.5" L

- 16 #12  
M/L 1"

- 19 #11  
M/L 1.5"

- 17 #10  
M/L 1"

- 12 #9  
M/L 1"

- 16 #8  
L 1"

- 14 #7  
L 1"

- 16 #6  
TREES 1"

- 13 #5  
M/L 1"

- 20 #4  
M/L 1.5"

- 18 #3  
M/L 1.5"

- 23 #21  
M/L 1.5"

- 8 #2  
TREES 1"

- 14 #1  
M/L 1"

- 28 #20  
M/L 1.5"

EXISTING CONTROLLERS "A", "B", "C" LOCATED IN KINDERGARTEN BUILDING, +/- 380' WEST OF 76TH PLACE ENTRANCE. REFER TO DETAIL B / LS-2.04

P.O.C. TO EXISTING MAIN LINE. APPROXIMATE LOCATION OF MAINLINE SHOWN.

SEE LS-2.01 FOR SPORTS PLAYGROUND LAYOUT

76TH PLACE ENTRANCE

NORTH  
SCALE: 1" = 20'

CALL 8-1-1 TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION

REVISIONS

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

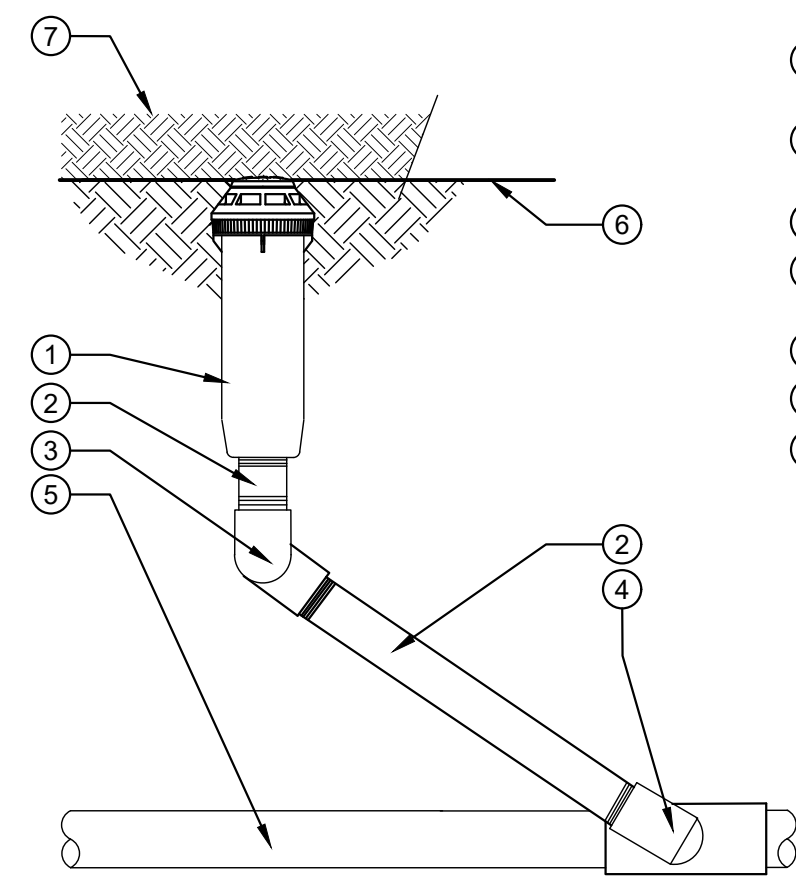
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

LANDSCAPE IMPROVEMENTS

IRRIGATION PLAN

LS-2.02

PROJ ID NO. PCA F21812149 SHEET 30 OF 63



- LEGEND:**
- POP-UP PER IRRIGATION LEGEND.
  - PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
  - PVC SCH 80 ELL
  - PVC SCH 80 TRIPLE SWING JOINT (SEE NOTES BELOW)
  - PVC LATERAL PIPE
  - FINISH GRADE
  - ABOVE GRADE, PER PLAN (SEE NOTES BELOW)

**NOTES:**

- IRRIGATION HEADS SHALL HAVE TRIPLE SWING JOINT RISER, FIELD ASSEMBLED.
- IN TURF AREAS, TOP OF POP-UP (MODEL PER IRRIGATION LEGEND) SHALL BE FLUSH WITH FINISH GRADE. IN PLANTING AREAS, TOP OF POP-UP SHALL BE 1" ABOVE FINISH GRADE.

**H POP-UP SPRINKLER**

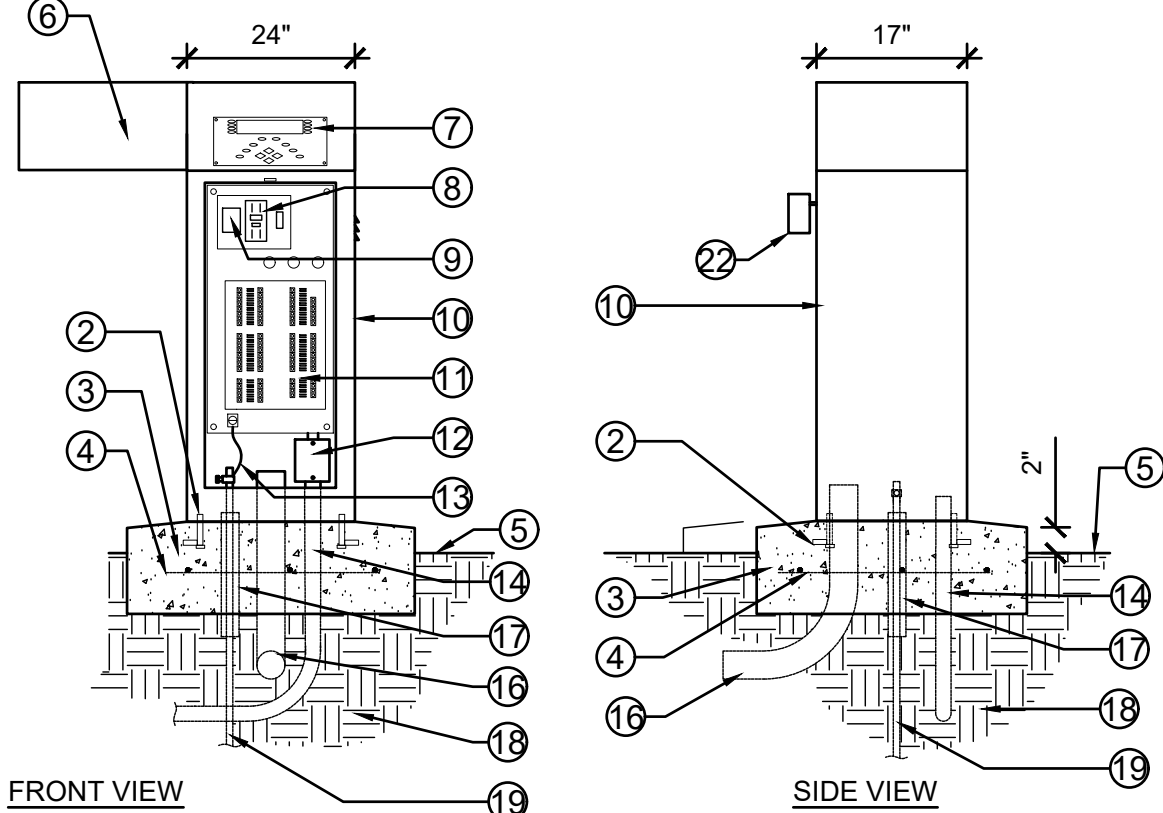
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**LEGEND**

- NOT USED
- MOUNTING BOLTS. BOLTS AND TEMPLATE SUPPLIED BY MANUFACTURER.
- CONCRETE BASE 26" X 24" X 8" DEEP.
- #4 REBAR @ 12" O.C. BOTH WAYS, CENTERED IN SLAB
- FINISH GRADE 2" BELOW TOP OF CONCRETE FOUNDATION (560-C-3250)
- FLIP TOP IN OPEN POSITION
- CONTROLLER PANEL MOUNTED FLUSH ON FACE OF ENCLOSURE
- GFI OUTLET & SWITCH
- NOT USED
- CONTROLLER & ENCLOSURE, REFER TO IRRIGATION LEGEND
- NOT USED
- 120 VAC JUNCTION BOX
- #6 AWG GROUNDING WIRE CONNECTED TO GROUND LUG
- SCH 40 ELECTRICAL SWEEP ELL FOR 120 VAC POWER
- NOT USED
- 3" DIA. SCH 40 ELECTRICAL SWEEP ELL FOR LOW VOLTAGE CONTROL WIRES
- PVC SLEEVE FOR GROUNDING ROD
- COMPACTED SUBGRADE
- 3/4" DIA. X 8' LONG COPPER CLAD STEEL GROUNDING ROD
- NOT USED
- 1-#8 BARE COPPER GROUND WIRE. PROVIDE CONNECTION AS REQUIRED
- RAIN SENSOR ENCLOSURE (PER IRRIGATION LEGEND) MOUNTED TO CONTROLLER ENCLOSURE.

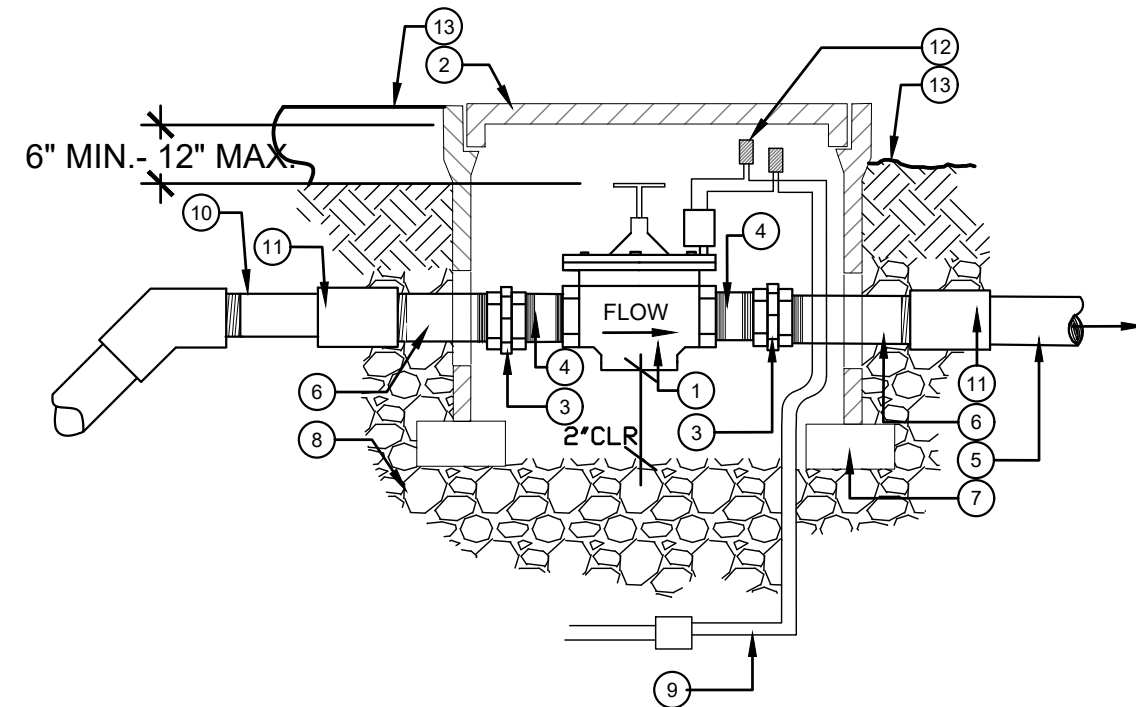
**NOTES:**

- THE FINAL LOCATION / ORIENTATION OF THE CONTROL PEDESTAL SHALL BE DETERMINED BY THE AGENCY.
- ENCLOSURE MUST COMPLY WITH EUSERC 308.



**1 CONTROLLER AND RAIN SENSOR**

NTS



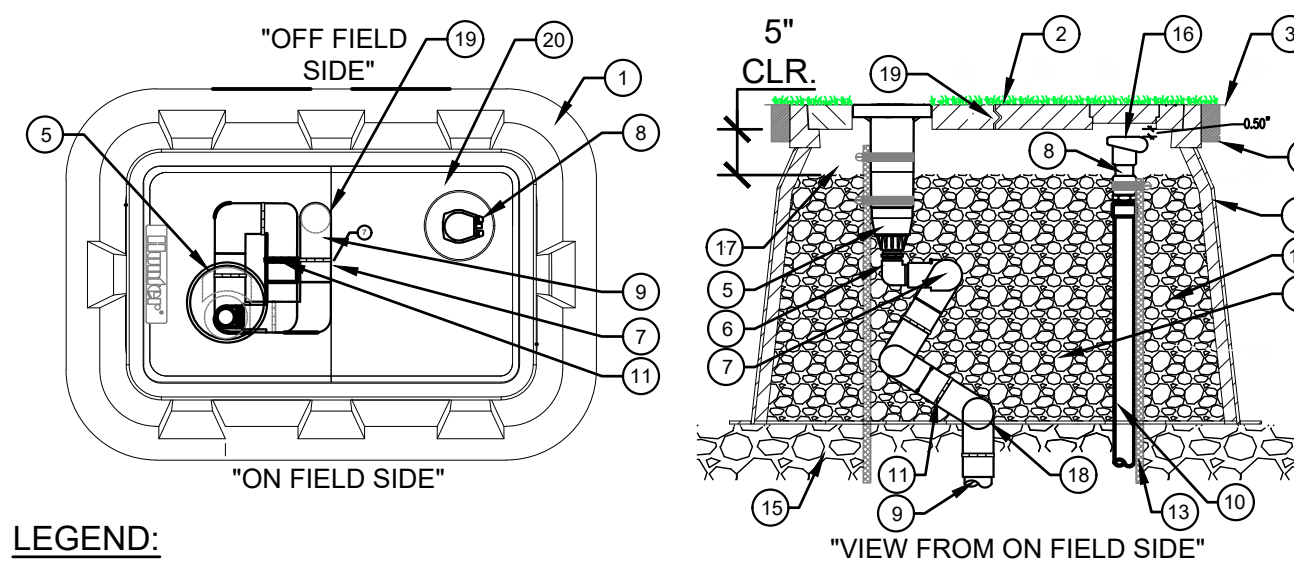
- LEGEND:**
- ELECTRIC CONTROL VALVE, SEE SPECIAL PROVISIONS.
  - VALVE BOX, PER SPECIAL PROVISIONS.
  - UNION (TYP.)
  - PVC SCHEDULE 80 T.O.E. NIPPLE (TREADED TWO END)
  - PVC PIPE TO IRRIGATION HEADS. ANGLE PIPE TO SPECIFIED DEPTH WITH 45 DEGREE ELBOWS.
  - 6" BRASS THREAD NIPPLE
  - COMMON RED BRICK, ONE AT EACH CORNER (4 REQUIRED) (TYP.)
  - 3/4" CRUSHED ROCK - 8" DEEP AND 2" CLEAR BELOW VALVE.
  - CONTROL COMMON WIRES FROM CONTROLLER.
  - PVC MAIN LINE. PVC FEMALE ADAPTER.
  - WIRE CONNECTOR PER SPECIAL PROVISIONS (TYP.)
  - WATERPROOF CONNECTIONS.
  - ADJACENT FINISH GRADE (TOP OF BOX TO BE 1" ABOVE GRADE FOR LAWN, 2" ABOVE GRADE FOR GROUND COVER/SHRUB AREA) OR WHERE APPLICABLE, ADJACENT FINISH SURFACE OF PAVEMENT. TOP OF BOX TO BE FLUSH W/ PAVEMENT.

**NOTES:**

- WHEN VALVE BOXES ARE CLUSTERED, PROVIDE 1" MIN. CLEARANCE BETWEEN BOXES.
- PROVIDE VALVE WITH SEPARATE CONNECTION TO MAINLINE. INSTALL NO MULTIPLE ASSEMBLIES.
- INSTALL VALVE BOX WITH HINGED COVER "OPENING TOWARD" DOWNSTREAM OF VALVE IN ORDER TO PROVIDE ACCESS TO FLOW CONTROL FEATURE OF CONTROL VALVE.
- ALL VERTICAL CHANGES IN MAINLINE PIPE DIRECTION SHALL BE DONE WITH THE USE OF 45 DEGREE ELBOWS.
- INSTALL GALVANIZED WOVEN MESH (1/4" SIEVE SIZE) BETWEEN RCV BOX AND CRUSHED ROCK. WRAP FABRIC UP SIDE OF BOX (3" MIN.)

**F REMOTE CONTROL VALVE**

NTS



- LEGEND:**
- REMOTE CONTROL VALVE AND WATER CANNON COMPOSITE BOX & 2-PIECE POLYMER-CONCRETE LID ASSEMBLY WITH CAST-IN OPENING TO SUPPORT ROTOR LATERAL THRUST PLUS CAST IN OPENING WITH CIRCULAR COVER FOR QUICK COUPLER ACCESS, REFER TO SPECIAL PROVISIONS.
  - SYNTHETIC TURF OR RUNNING TRACK MATERIAL ATTACHED TO COVERS
  - FINISHED GRADE SET TO FIELD PERIMETER TACK/GLUE BOARD OR AS PER SPECIFICATION
  - 2" X 4" TREX BOARD, TACK/GLUE TO ALL SIDES
  - HUNTER STG-900 WITH RUBBER COVER KIT 473900 INSTALLED
  - HUNTER 239800 & 239300 ROTOR ADAPTER FITTING WITH 3 ACME PIVOT POINTS
  - HUNTER ST2008VA PREFABRICATED 2" SCH 80 PVC SWING JOINT WITH 6 ACME PIVOT POINTS TO PROVIDE MULTI-AXIS ARTICULATION AND ALIGNMENT OF ROTOR TO THE OPENING IN ENCLOSURE COVER
  - QUICK COUPLING VALVE
  - LATERAL PIPING AND FITTINGS - 2" MINIMUM AS PER SPECIFICATION FROM CONTROL VALVE THROUGH TO ST2008VA SWING JOINT
  - SCH 80 PVC RISER SUPPLY PIPING AND FITTINGS - 1" MINIMUM
  - ACME THREADED PIVOTING POINTS (9 TOTAL)
  - 3/4" MINUS WASHED GRAVEL
  - 5/8" X 30" REBAR STAKE AND STAINLESS STEEL STRAPPING
  - NOT USED
  - 3/4" CRUSHED ROCK - 8" DEEP
  - TOP OF QUICK COUPLER SET 1/2" BELOW UNDERSIDE OF ENCLOSURE COVER
  - GRAVEL LEVEL 5" BELOW UNDERSIDE OF ENCLOSURE COVER (TO BOTTOM OF ROTOR'S COMPARTMENT)
  - ELEVATION OF SWING JOINT'S INLET - SET SECOND PIVOT POINT ON SWING JOINT WITH BOTTOM OF ENCLOSURE PER SIDE VIEW DETAIL DRAWING (26" BELOW ENCLOSURE TOP)
  - LOCATION OF SWING JOINT'S INLET - SET INLET AT EDGE BETWEEN ENCLOSURE COVERS & LOCATE 5" FROM THE TOP OF COVER PER TOP VIEW DETAIL DRAWING. INLET MUST NOT BE SET CLOSER TO ROTOR THAN SHOWN.
  - LOCATION OF QUICK COUPLER INLET PIPING - MEASURE INLET PIPING LOCATION AT TOP RIGHT HAND CORNER OF ENCLOSURE - 5" FROM TOP EDGE AND 5" FROM SIDE EDGE.

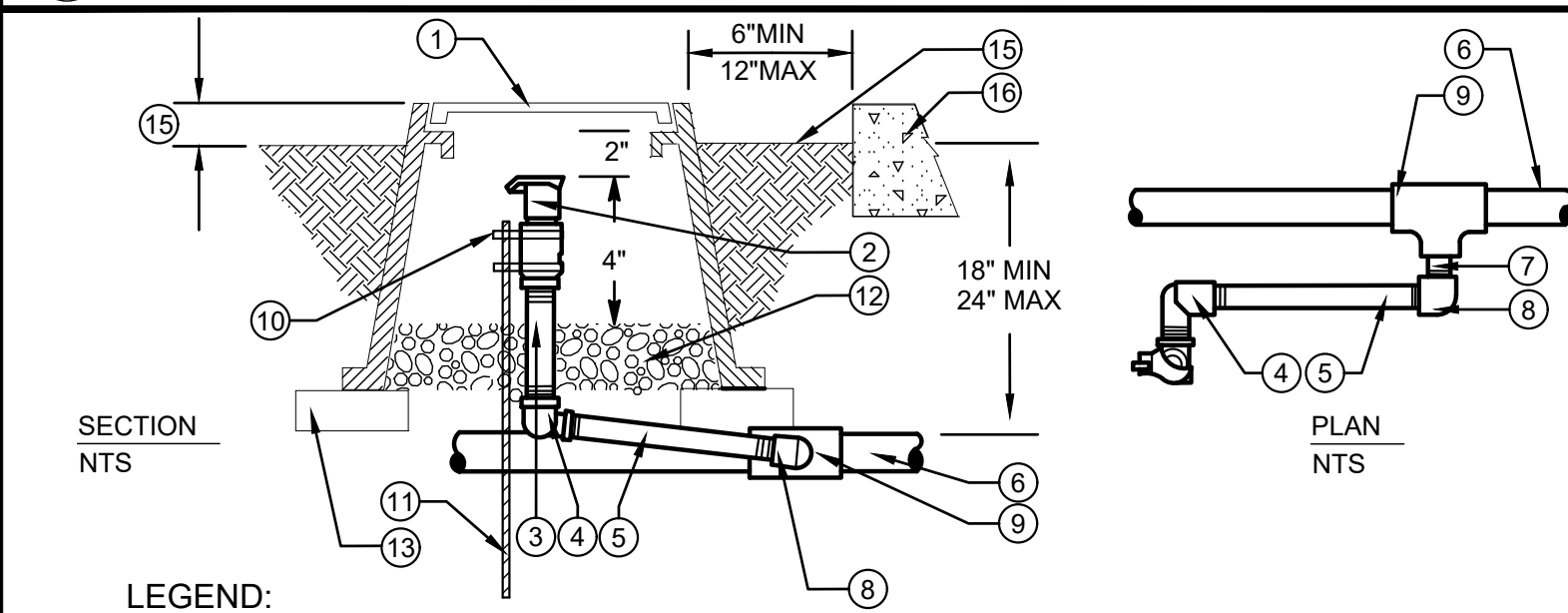
**NOTE:**  
\*ENCLOSURE DIMENSIONS: 2 - PIECE COVER - 17" X 30" EXPANDED RIM - 20" X 33" OVERALL HEIGHT -26" BASE PAD - 27" X 41"

NTS

**G REMOTE CONTROL VALVE AND WATER CANNON**

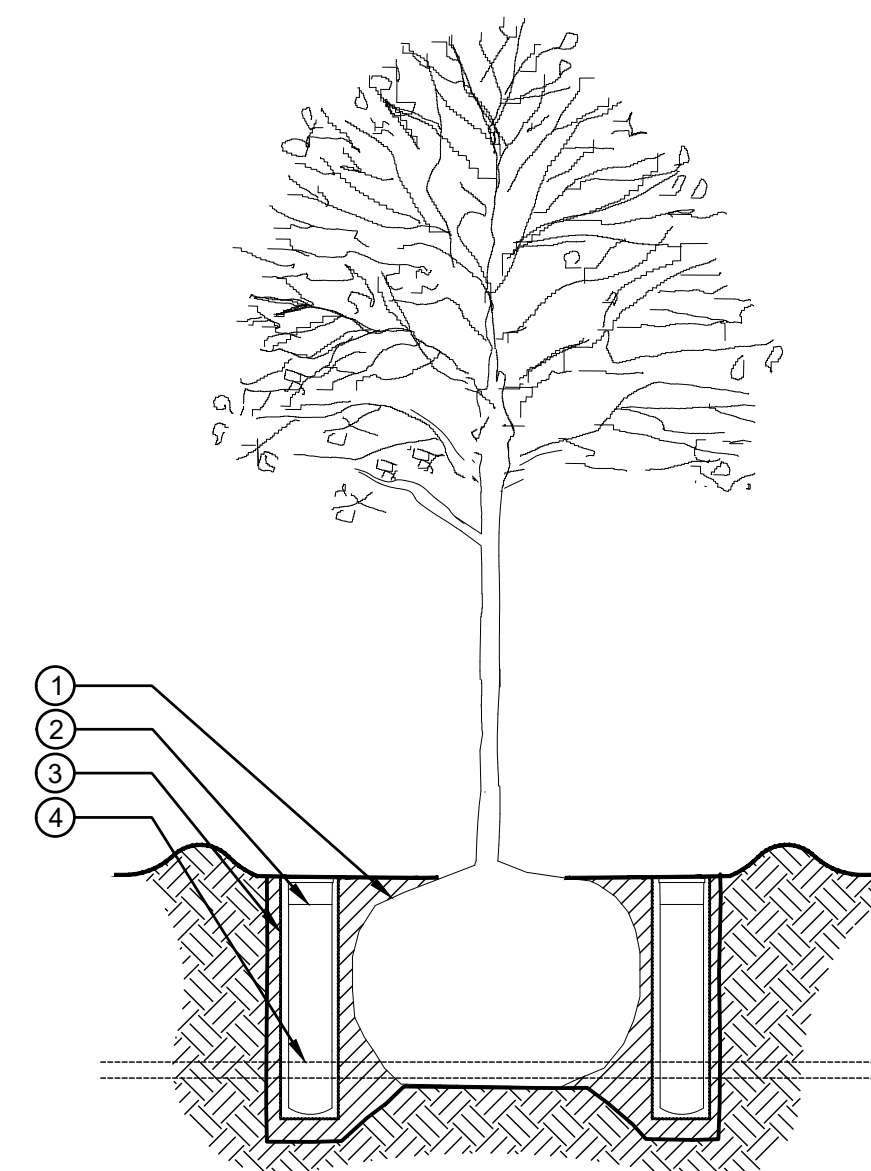
**C PIPE TRENCHING**

NTS



- LEGEND:**
- VALVE BOX, PER SPECIAL PROVISIONS.
  - 3/4" QUICK COUPLING VALVE.
  - SCHEDULE 80 PVC - LENGTH AS REQUIRED.
  - SCHEDULE 80 PVC THREADED ELBOW.
  - SCHEDULE 80 NIPPLE - 6" MINIMUM, 12" MAXIMUM LENGTH.
  - PVC MAINLINE PIPING.
  - PVC SCHEDULE 80 T.O.E. (THREADED ON END NIPPLE - 2" LENGTH).
  - SCHEDULE 80 PVC THREADED ELBOW.
  - PVC SCHEDULE 40 SLIP TEE.
  - STAINLESS STEEL COMPRESSION CLAMP (2 REQUIRED).
  - #4 X 24" MINIMUM LENGTH REBAR STAKE. SECURE AT QUICK COUPLER BODY ONLY.
  - 3/4" DIA. CRUSHED ROCK 8" DEEP
  - COMMON RED BRICK, ONE AT EACH CORNER (4 REQUIRED) (TYP.)
  - SET BOX 1-1/2" ABOVE FINISH GRADE IN PLANTING AREAS.
  - FINISH GRADE.
  - CURB, WALK OR OTHER HARDSCAPE FEATURE.
- NOTES:**
- VALVE BOX TO BE SET FLUSH NEXT TO CURB OR SIDEWALK.
  - FOR NON-HARDSCAPE AREAS, SET TOP OF VALVE BOX 2" ABOVE FINISH GRADE.

**D QUICK COUPLER**



- LEGEND:**
- FINISH GRADE
  - ROOT WATERING SYSTEM BY RAINBIRD OR EQUAL.
  - OPTIONAL LANDSCAPE FABRIC FOR SANDY SOILS
  - LATERAL LINE

**NOTES:**

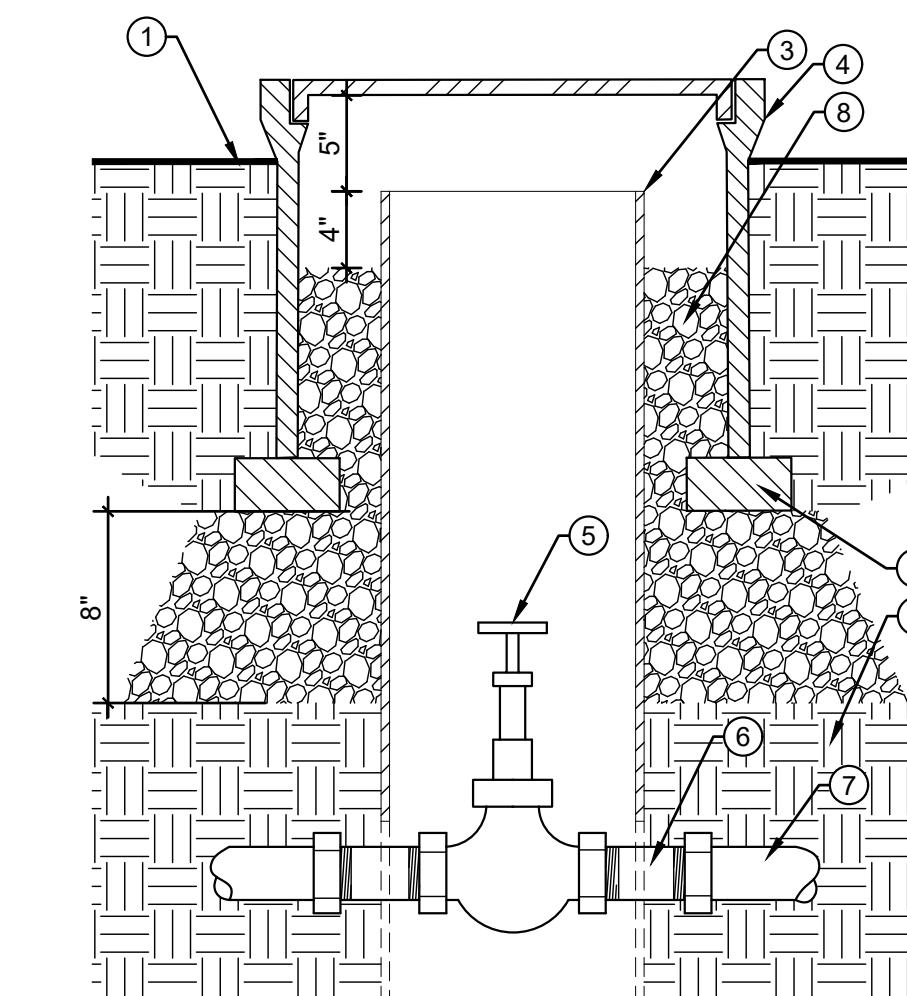
- USE 2 UNITS PER TREE
- POSITION UNITS EVENLY SPACED AROUND ROOT BALL
- SET TOP OF CAP 1" ABOVE FINISH GRADE

**E TREE ROOT WATERING SYSTEM**

NTS

**A COMBO FLOW METER / MASTER VALVE**

NTS



- LEGEND:**
- FINISH GRADE
  - COMPACTED SUBGRADE
  - 8" SCH. 40 PVC PIPE NOTCHED TO FIT OVER MAINLINE
  - VALVE BOX, PER SPECIAL PROVISIONS
  - GATE VALVE W/ HANDWHEEL
  - 6" MIN. SCH. 80 PVC NIPPLE, TYP.
  - MAINLINE
  - 3/4" CRUSHED ROCK
  - (3) COMMON BRICK, EQUALLY SPACED

**NOTE:**  
FOR 2 1/2" OR LARGER GATE VALVE, USE CAST IRON FLANGE ADAPTOR BETWEEN GATE VALVE & MAINLINE

**B GATE VALVE**

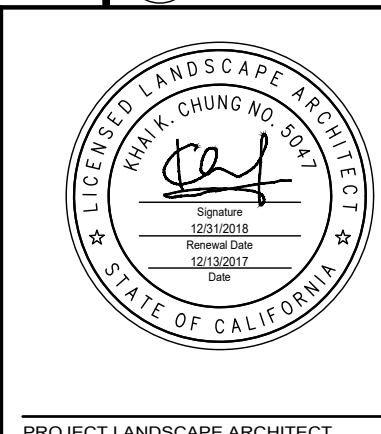
NTS

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COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

LANDSCAPE IMPROVEMENTS

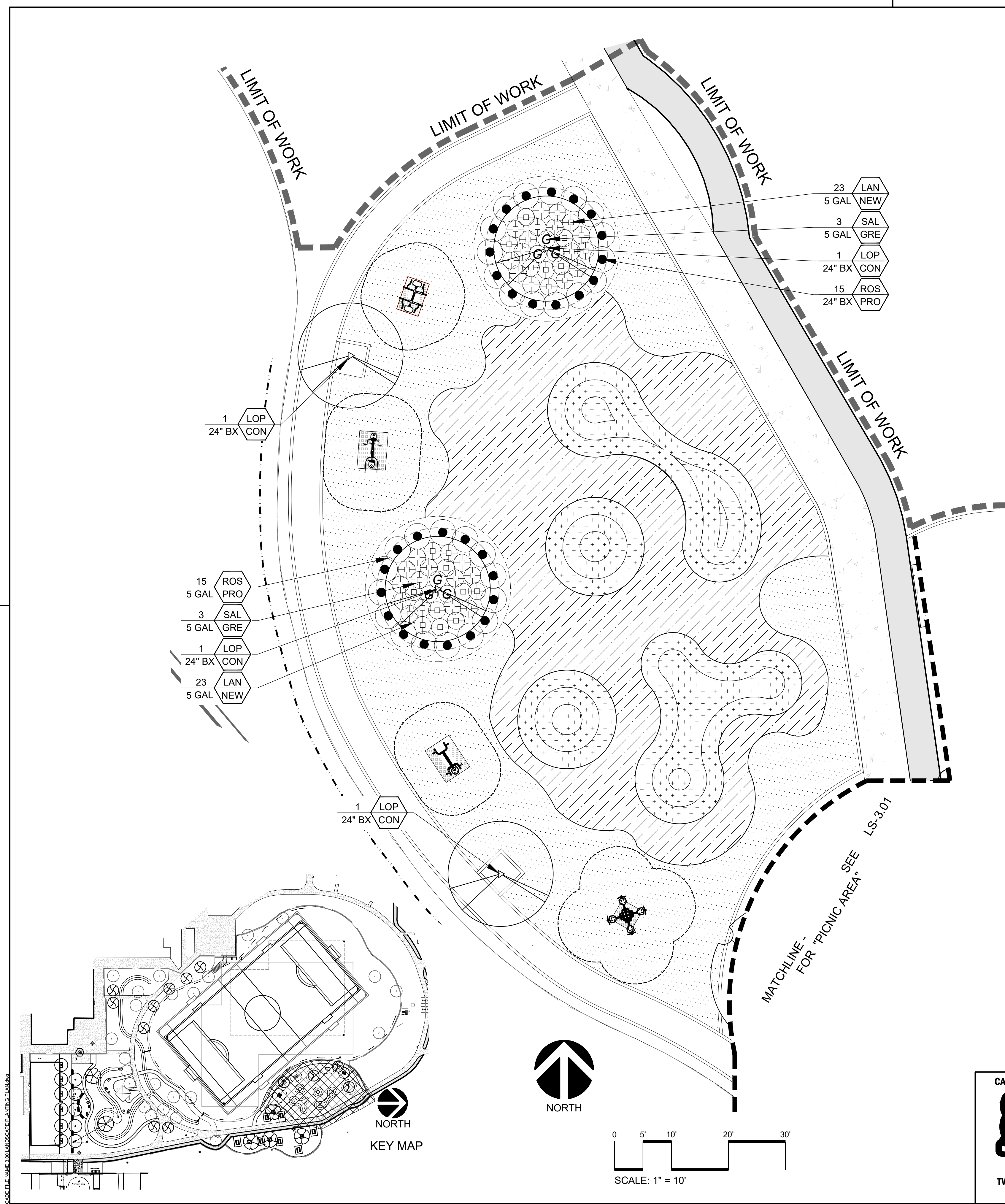
IRRIGATION DETAILS

PROJ ID NO. PCA F21812149

SHEET 31 OF 63







### TREE LEGEND

SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WUCOLS
	CAS LEP	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	24" BOX	11	M
	CHI TAS	CHITALPA TASHKENTENSIS	CHITALPA	24" BOX	9	L
	LOP CON	LOPHOSTEMON CONFERTUS	BRISBANE BOX	24" BOX	4	M
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	24" BOX	6	M
	EXISTING TREE					

### SHRUB AND GROUNDCOVER LEGEND

SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WUCOLS
	ACH PAP	ACHILLEA MILLEFOLIUM 'PAPRIKA'	PAPRIKA YARROW	1 GAL	295	1 FT.	2 FT.	L
	ACH ISL	ACHILLEA MILLEFOLIUM 'ISLAND PINK'	ISLAND PINK YARROW	1 GAL	234	1 FT.	2 FT.	L
	ACH TER	ACHILLEA MILLEFOLIUM 'TERRACOTTA'	TERRACOTTA YARROW	1 GAL	320	1 FT.	2 FT.	L
	AGA ATT	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	7	2 FT.	4 FT.	VL
	AGA VIL	AGAVE VILMORIANA	OCTOPUS AGAVE	5 GAL	7	1.5 FT.	3 FT.	VL
	ASC CUR	ASCLEPIAS CURASSAVICA	BLOOD FLOWER	1 GAL	77	1 FT.	2 FT.	L
	BAC PIG	BACCHARIS PILULARIS 'PIGEON POINT'	PROSTRATE COYOTE BUSH	1 GAL	56	3 FT.	6 FT.	L
	CAR PRA	CAREX PRAEGRACILIS	CALIFORNIA FIELD SEDGE	1 GAL	139	10 IN.	1 FT.	M
	DIE IRI	DIETES IRIDIOIDES	FORTNIGHT LILY	5 GAL	28	1.5 FT	3 FT	L
	ERI GLA	ERIGERON GLAUCUS	BEACH ASTER	1 GAL	87	0.75 FT	1.5 FT	L
	HES PAR	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	32	2 FT.	4 FT.	L
	IRI DOU	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	309	1.25 FT	2.5 FT	L
	JUN PAT	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	228	1 FT.	2 FT.	L
	LAN NEW	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL	278	3 FT.	6 FT.	L
	LAV STO	LAVANDULA STOECHAS	SPANISH LAVENDER	5 GAL	24	1.5 FT.	3 FT.	L
	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	239	1.5 FT.	3 FT.	L
	ROS PRO	ROSEMARY 'PROSTRATUS'	CREEPING ROSEMARY	5 GAL	86	2.25 FT.	4.5 FT.	L
	SAL LEU	SALVIA LEUCOPHYLLA	PURPLE SAGE	5 GAL	45	2.5 FT.	5 FT.	L
	SAL GRE	SALVIA GREGGII	AUTUMN SAGE	5 GAL	52	1.5 FT.	3 FT.	L

NOTE:  
 1. EACH TREE AND PLANT TYPE SHALL HAVE PLANT IDENTIFICATION TAGS AT (3) SEPARATE LOCATIONS. REFER TO DETAIL FOR INSTALLATION OF TAG. LOCATION OF TAGS TO BE DETERMINED IN FIELD BY LANDSCAPE ARCHITECT. THESE TAGS SHALL BE PLACED FOR PLANTS WITHIN THE EDUCATION GARDEN AREA.  
 2. PLANT QUANTITY ON LEGEND REFLECTS OVERALL TOTAL QUANTITY FOR THE ENTIRE PROJECT.

CALL 8-1-1 TOLL FREE  
  
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COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
 LANDSCAPE IMPROVEMENTS  
 PLANTING PLAN:  
 PARCOURSE  
 LS-3.00

### TREE LEGEND

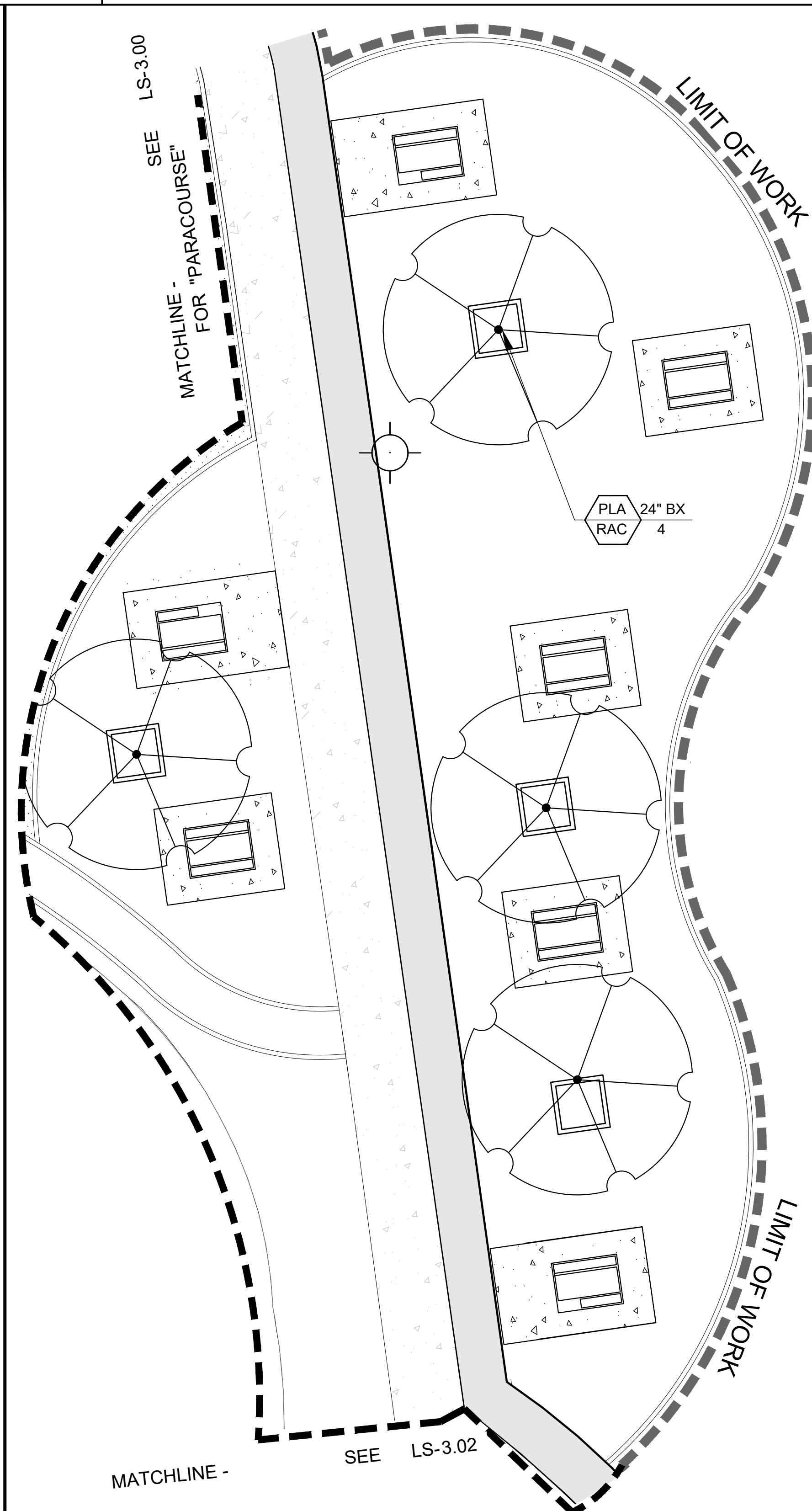
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WUCOLS
	CAS LEP	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	24" BOX	11	M
	CHI TAS	CHITALPA TASHKENTENSIS	CHITALPA	24" BOX	9	L
	LOP CON	LOPHOSTEMON CONFERTUS	BRISBANE BOX	24" BOX	4	M
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	24" BOX	6	M
	EXISTING TREE					

### SHRUB AND GROUNDCOVER LEGEND

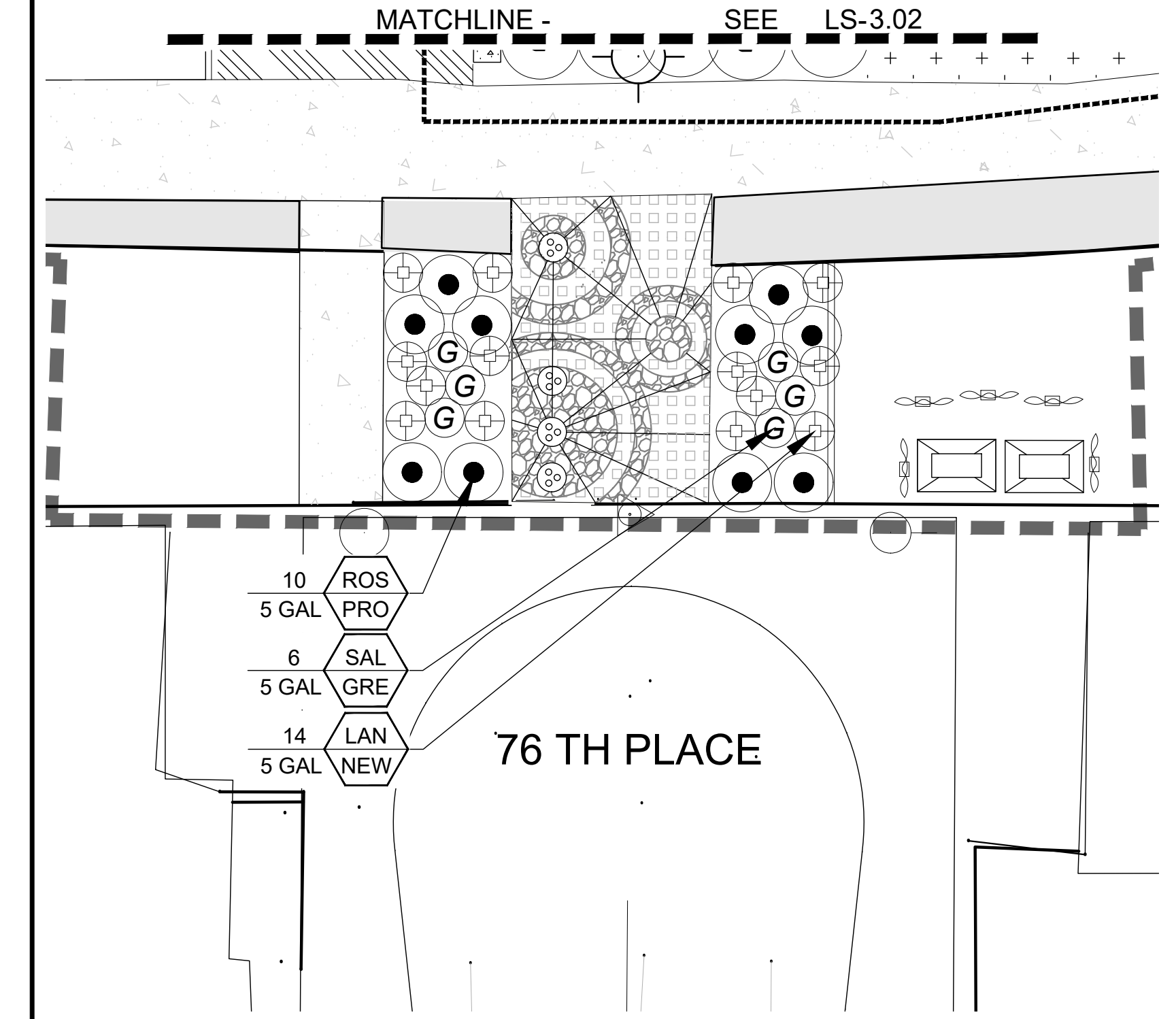
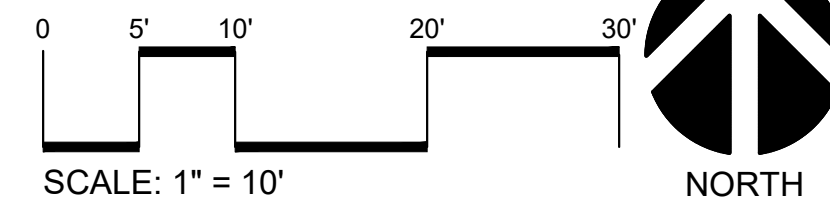
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WUCOLS
	ACH PAP	ACHILLEA MILLEFOLIUM 'PAPRIKA'	PAPRIKA YARROW	1 GAL	295	1 FT.	2 FT.	L
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	AGA ATT	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	7	2 FT.	4 FT.	VL
	AGA VIL	AGAVE VILMORIANA	OCTOPUS AGAVE	5 GAL	7	1.5 FT.	3 FT.	VL
	ASC CUR	ASCLEPIAS CURASSAVICA	BLOOD FLOWER	1 GAL	77	1 FT.	2 FT.	L
	BAC PIG	BACCHARIS PILULARIS 'PIGEON POINT'	PROSTRATE COYOTE BUSH	1 GAL	56	3 FT.	6 FT.	L
	CAR PRA	CAREX PRAEGRACILIS	CALIFORNIA FIELD SEDGE	1 GAL	139	10 IN.	1 FT.	M
	DIE IRI	DIETES IRIDIOIDES	FORTNIGHT LILY	5 GAL	28	1.5 FT	3 FT	L
	ERI GLA	ERIGERON GLAUCUS	BEACH ASTER	1 GAL	87	0.75 FT	1.5 FT	L
	HES PAR	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	32	2 FT.	4 FT.	L
	IRI DOU	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	309	1.25 FT	2.5 FT	L
	JUN PAT	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	228	1 FT.	2 FT.	L
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	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	239	1.5 FT.	3 FT.	L
	ROS PRO	ROSEMARY 'PROSTRATUS'	CREEPING ROSEMARY	5 GAL	86	2.25 FT.	4.5 FT.	L
	SAL LEU	SALVIA LEUCOPHYLLA	PURPLE SAGE	5 GAL	45	2.5 FT.	5 FT.	L
	SAL GRE	SALVIA GREGGII	AUTUMN SAGE	5 GAL	52	1.5 FT.	3 FT.	L

**NOTE:**

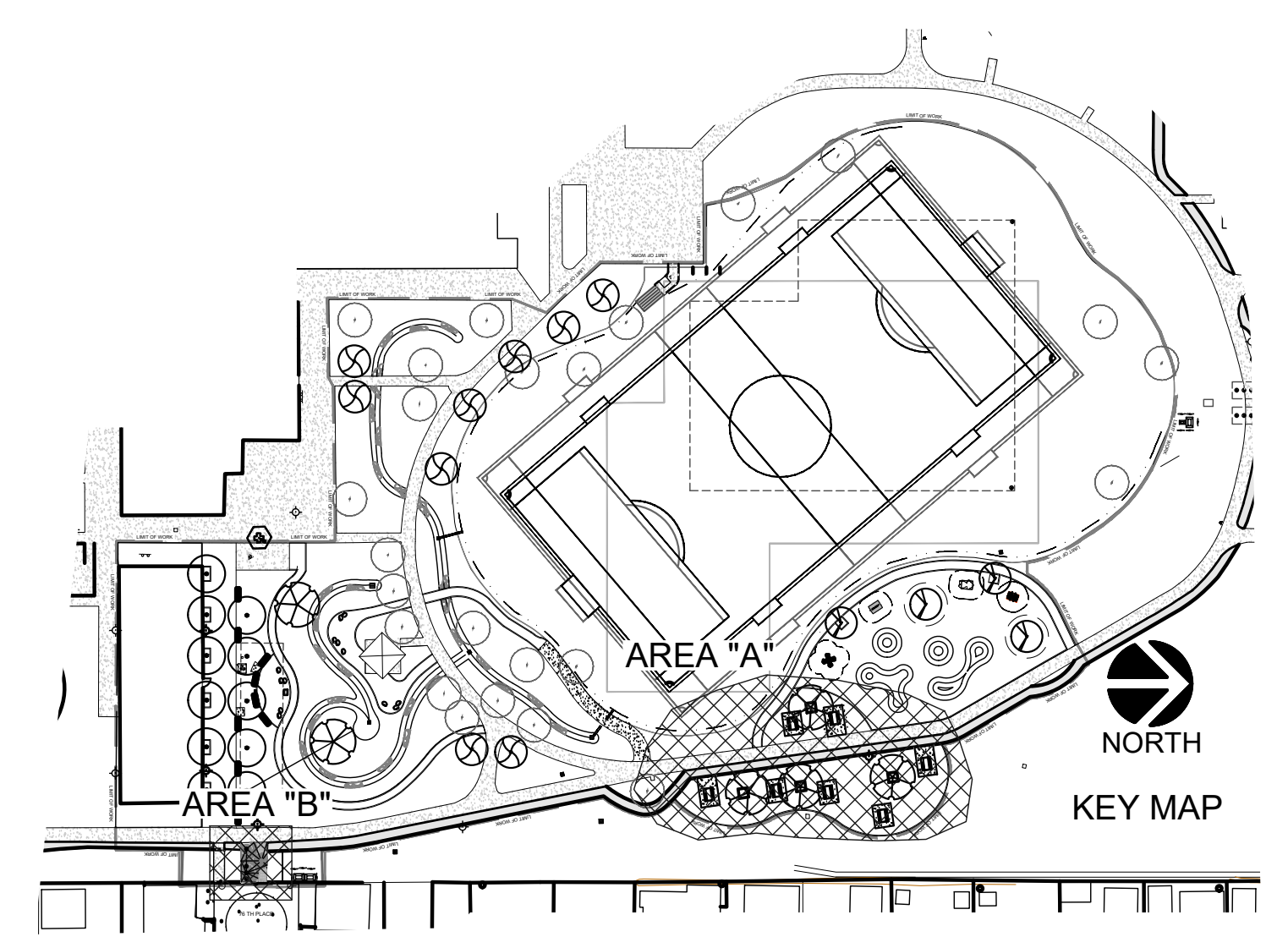
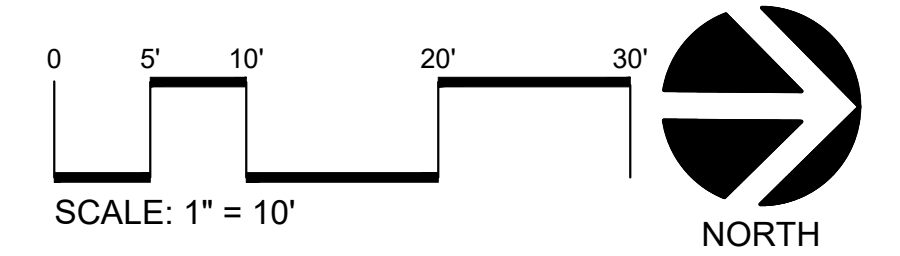
1. EACH TREE AND PLANT TYPE SHALL HAVE PLANT IDENTIFICATION TAGS AT (3) SEPARATE LOCATIONS. REFER TO DETAIL FOR INSTALLATION OF TAG. LOCATION OF TAGS TO BE DETERMINED IN FIELD BY LANDSCAPE ARCHITECT. THESE TAGS SHALL BE PLACED FOR PLANTS WITHIN THE EDUCATION GARDEN AREA.
2. PLANT QUANTITY ON LEGEND REFLECTS OVERALL TOTAL QUANTITY FOR THE ENTIRE PROJECT.



PLAN VIEW AREA "A": PICNIC AREA



PLAN VIEW AREA "B": 76TH ST ENTRY



KEY MAP

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TWO WORKING DAYS BEFORE YOU DIG

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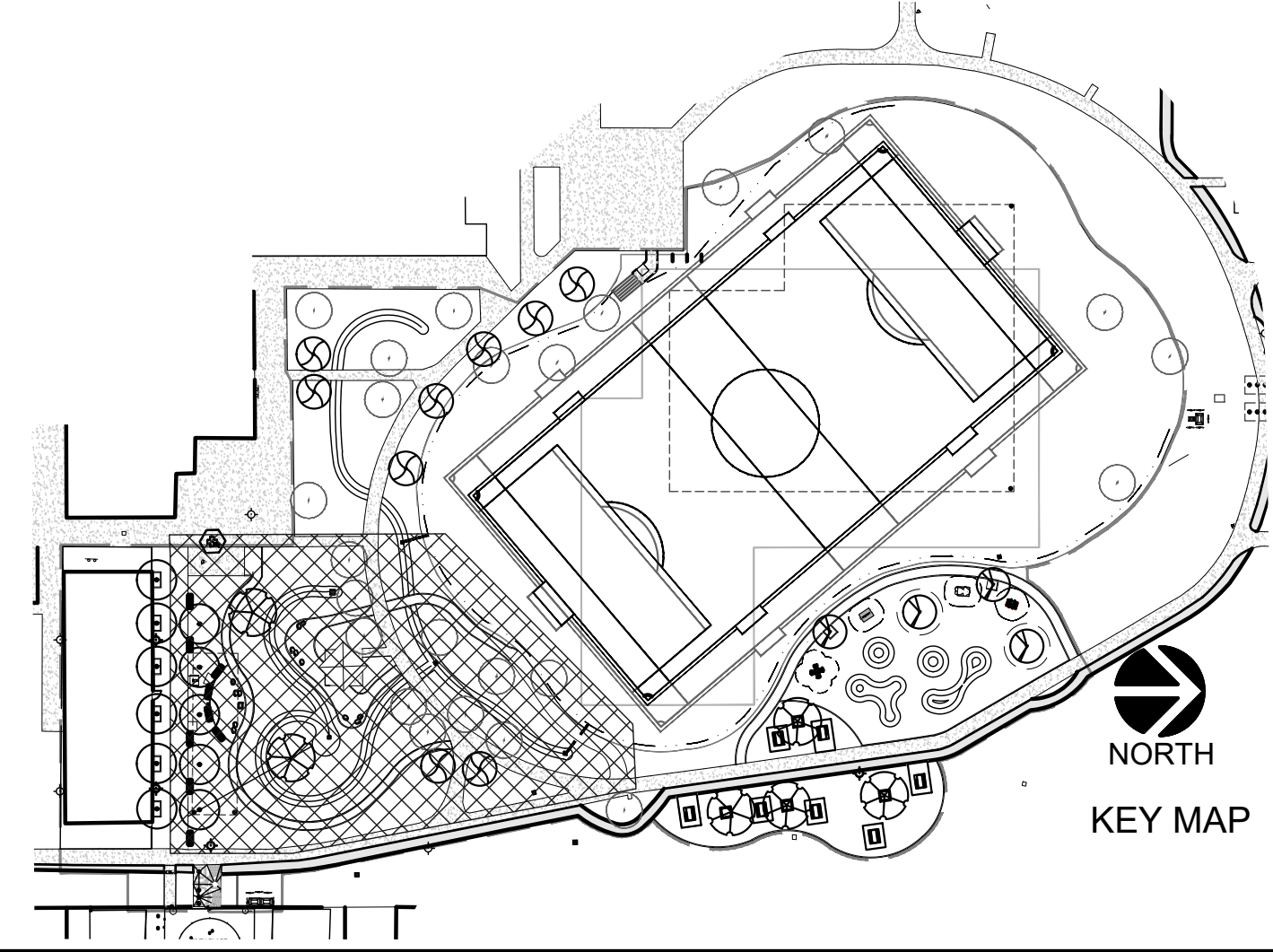
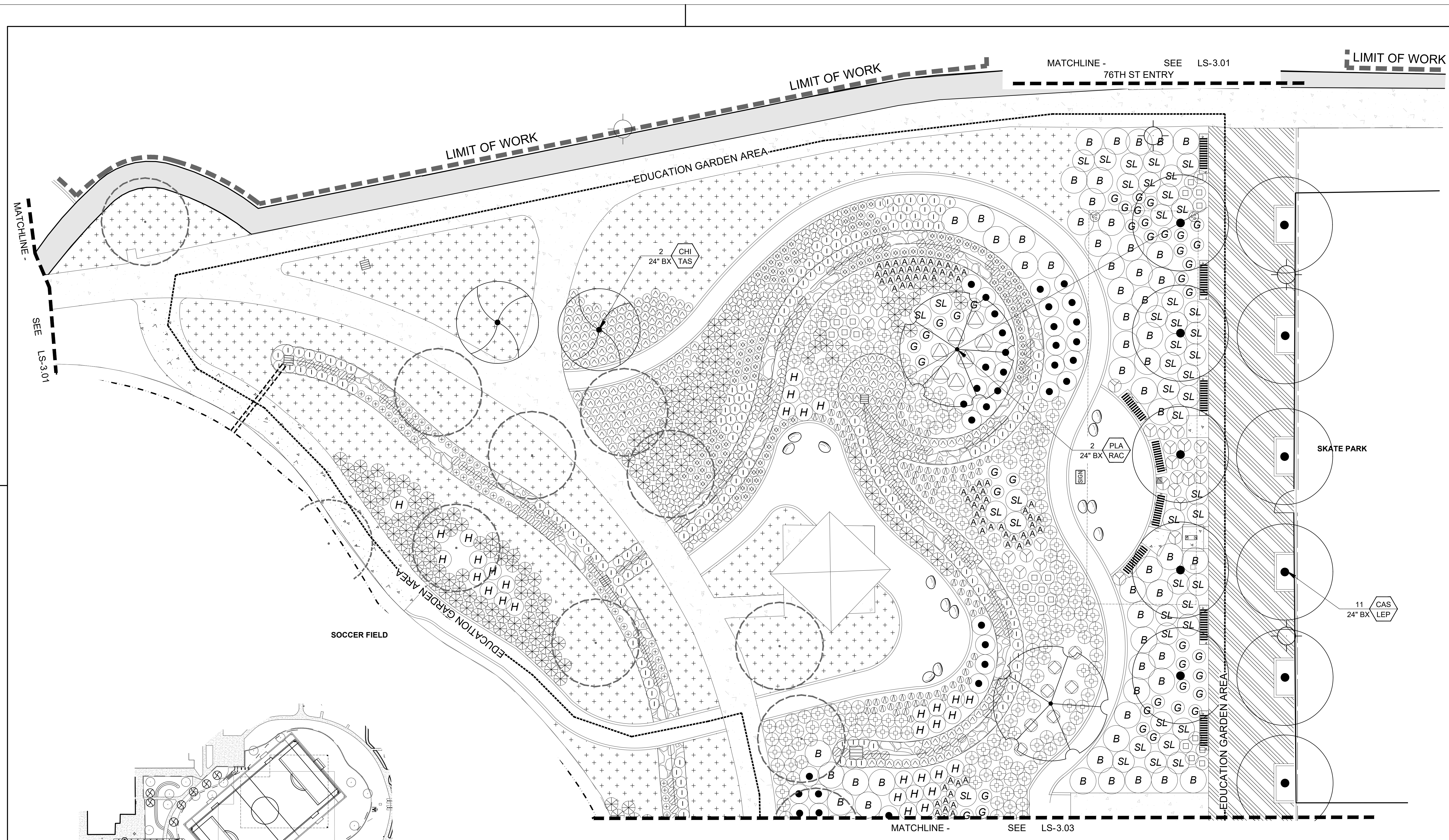
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT  
LANDSCAPE IMPROVEMENTS  
PICNIC AREA AND ACCESS OFF 76TH ST

PROJECT LANDSCAPE ARCHITECT DATE PROJ ID NO. PCA F21812149 SHEET 34 OF 63

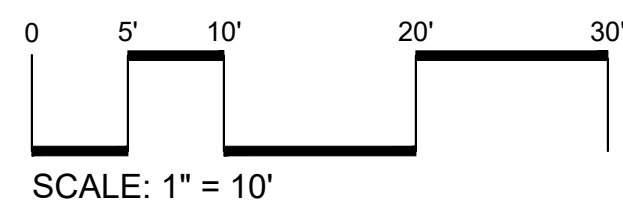
ADDENDUM NO. 1

PLOT DATE: 5/22/2018



SOCCER FIELD

NORTH  
KEY MAP



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REVISIONS		

PROFESSIONAL LANDSCAPE ARCHITECT  
WEN CHUNG HO  
STATE OF CALIFORNIA  
PROJECT LANDSCAPE ARCHITECT DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL  
STORMWATER CAPTURE PROJECT  
LANDSCAPE IMPROVEMENTS  
PLANTING PLAN:  
EDUCATION GARDEN**

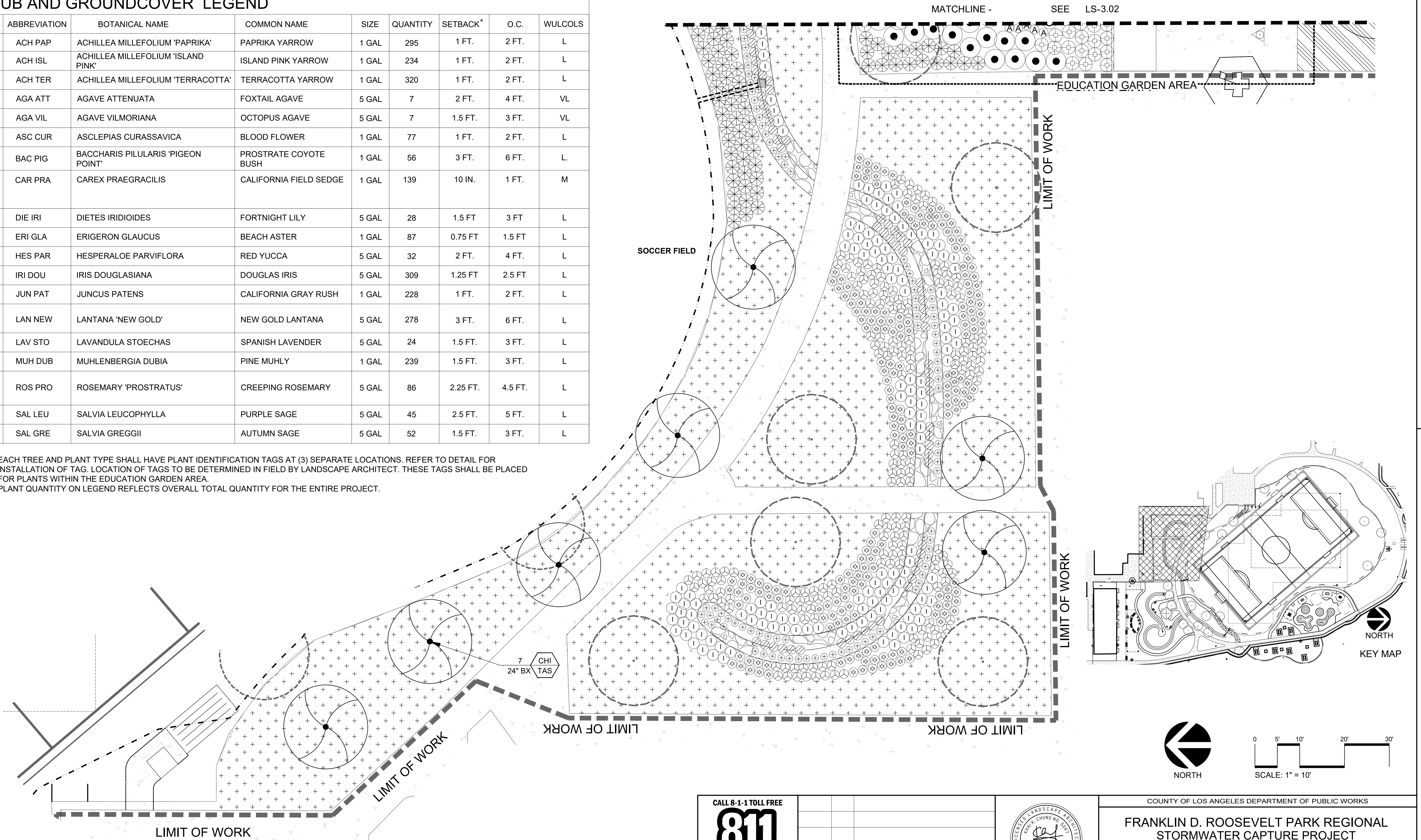
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PROJ ID NO. PCA F21812149 SHEET 35 OF 63

ADDENDUM NO. 1

### SHRUB AND GROUNDCOVER LEGEND

SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WULCOLS
⊕	ACH PAP	ACHILLEA MILLEFOLIUM 'PAPRIKA'	PAPRIKA YARROW	1 GAL	295	1 FT.	2 FT.	L
⊖	ACH ISL	ACHILLEA MILLEFOLIUM 'ISLAND PINK'	ISLAND PINK YARROW	1 GAL	234	1 FT.	2 FT.	L
⊗	ACH TER	ACHILLEA MILLEFOLIUM 'TERRACOTTA'	TERRACOTTA YARROW	1 GAL	320	1 FT.	2 FT.	L
⊕	AGA ATT	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	7	2 FT.	4 FT.	VL
⊖	AGA VIL	AGAVE VILMORIANA	OCTOPUS AGAVE	5 GAL	7	1.5 FT.	3 FT.	VL
Ⓐ	ASC CUR	ASCLEPIAS CURASSAVICA	BLOOD FLOWER	1 GAL	77	1 FT.	2 FT.	L
Ⓑ	BAC PIG	BACCHARIS PILULARIS 'PIGEON POINT'	PROSTRATE COYOTE BUSH	1 GAL	56	3 FT.	6 FT.	L
+	CAR PRA	CAREX PRAEGRACILIS	CALIFORNIA FIELD SEDGE	1 GAL	139	10 IN.	1 FT.	M
⊕	DIE IRI	DIETES IRIDIODES	FORTNIGHT LILY	5 GAL	28	1.5 FT	3 FT	L
Ⓐ	ERI GLA	ERIGERON GLAUCUS	BEACH ASTER	1 GAL	87	0.75 FT	1.5 FT	L
Ⓕ	HES PAR	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	32	2 FT.	4 FT.	L
Ⓛ	IRI DOU	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	309	1.25 FT	2.5 FT	L
⊗	JUN PAT	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	228	1 FT.	2 FT.	L
⊕	LAN NEW	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL	278	3 FT.	6 FT.	L
⊖	LAV STO	LAVANDULA STOECHAS	SPANISH LAVENDER	5 GAL	24	1.5 FT.	3 FT.	L
⊗	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	239	1.5 FT.	3 FT.	L
●	ROS PRO	ROSEMARY 'PROSTRATUS'	CREEPING ROSEMARY	5 GAL	86	2.25 FT.	4.5 FT.	L
Ⓛ	SAL LEU	SALVIA LEUCOPHYLLA	PURPLE SAGE	5 GAL	45	2.5 FT.	5 FT.	L
Ⓒ	SAL GRE	SALVIA GREGGII	AUTUMN SAGE	5 GAL	52	1.5 FT.	3 FT.	L

- NOTE:
- EACH TREE AND PLANT TYPE SHALL HAVE PLANT IDENTIFICATION TAGS AT (3) SEPARATE LOCATIONS. REFER TO DETAIL FOR INSTALLATION OF TAG. LOCATION OF TAGS TO BE DETERMINED IN FIELD BY LANDSCAPE ARCHITECT. THESE TAGS SHALL BE PLACED FOR PLANTS WITHIN THE EDUCATION GARDEN AREA.
  - PLANT QUANTITY ON LEGEND REFLECTS OVERALL TOTAL QUANTITY FOR THE ENTIRE PROJECT.



PROJECT NUMBER: 1000 LANDSCAPE ARCHITECTURE

PLANT DATE: 9/22/2018

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TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION



PROJECT LANDSCAPE ARCHITECT DATE

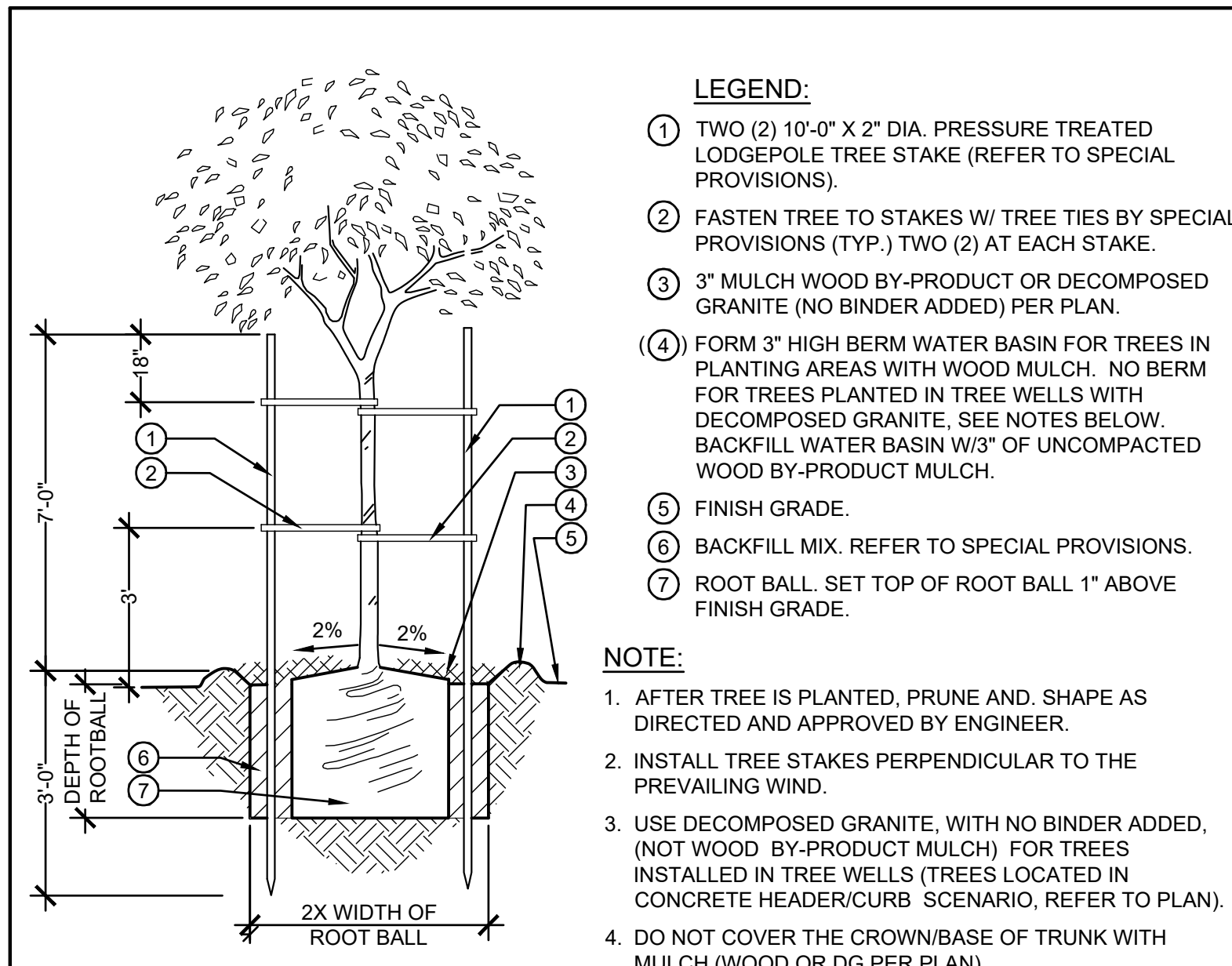
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT  
LANDSCAPE IMPROVEMENTS  
PLANTING PLAN:  
EDUCATION GARDEN

PROJ ID NO. PCA F21812149 SHEET 36 OF 63

LS-3.03

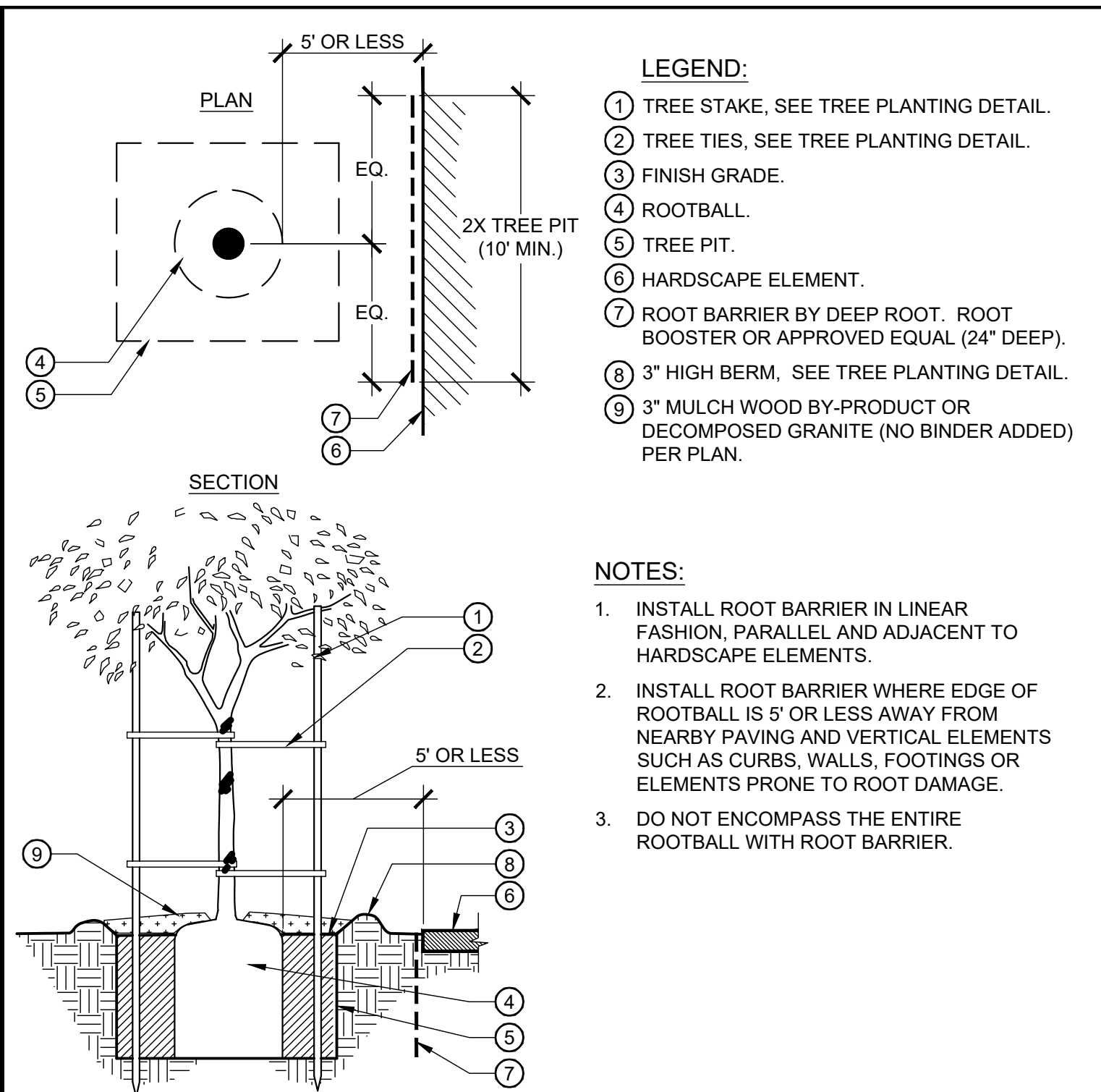
ADDENDUM NO. 1



- LEGEND:**
- (1) TWO (2) 10'-0" X 2" DIA. PRESSURE TREATED LODGEPOLE TREE STAKE (REFER TO SPECIAL PROVISIONS).
  - (2) FASTEN TREE TO STAKES W/ TREE TIES BY SPECIAL PROVISIONS (TYP.) TWO (2) AT EACH STAKE.
  - (3) 3" MULCH WOOD BY-PRODUCT OR DECOMPOSED GRANITE (NO BINDER ADDED) PER PLAN.
  - (4) FORM 3" HIGH BERM WATER BASIN FOR TREES IN PLANTING AREAS WITH WOOD MULCH. NO BERM FOR TREES PLANTED IN TREE WELLS WITH DECOMPOSED GRANITE. SEE NOTES BELOW. BACKFILL WATER BASIN W/3" OF UNCOMPACTED WOOD BY-PRODUCT MULCH.
  - (5) FINISH GRADE.
  - (6) BACKFILL MIX. REFER TO SPECIAL PROVISIONS.
  - (7) ROOT BALL. SET TOP OF ROOT BALL 1" ABOVE FINISH GRADE.

- NOTE:**
- AFTER TREE IS PLANTED, PRUNE AND SHAPE AS DIRECTED AND APPROVED BY ENGINEER.
  - INSTALL TREE STAKES PERPENDICULAR TO THE PREVAILING WIND.
  - USE DECOMPOSED GRANITE, WITH NO BINDER ADDED, (NOT WOOD BY-PRODUCT MULCH) FOR TREES INSTALLED IN TREE WELLS (TREES LOCATED IN CONCRETE HEADER/CURB SCENARIO, REFER TO PLAN).
  - DO NOT COVER THE CROWN/BASE OF TRUNK WITH MULCH (WOOD OR DG PER PLAN).

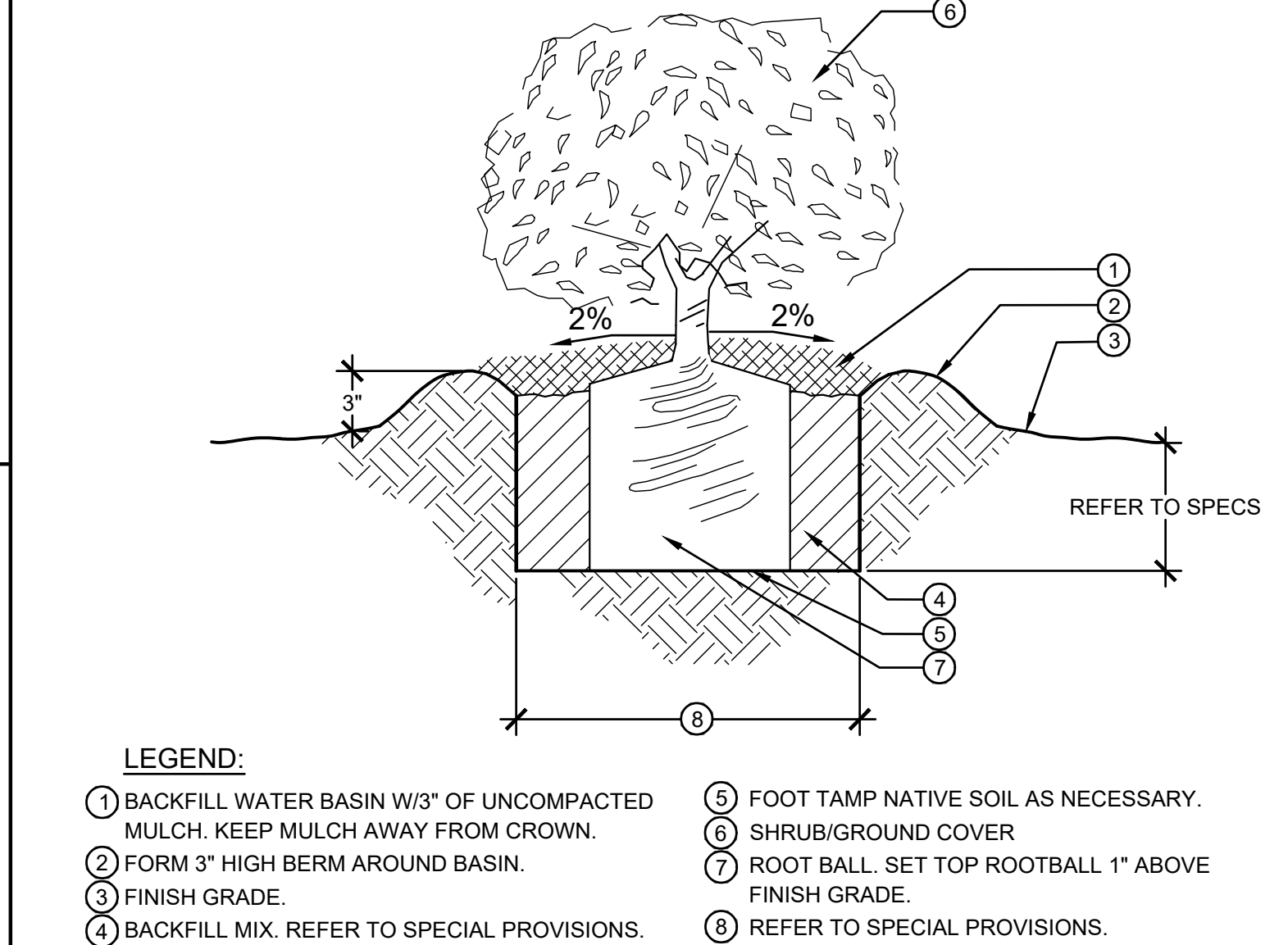
**C TREE PLANTING/STAKING** SCALE: NTS



- LEGEND:**
- (1) TREE STAKE, SEE TREE PLANTING DETAIL.
  - (2) TREE TIES, SEE TREE PLANTING DETAIL.
  - (3) FINISH GRADE.
  - (4) ROOTBALL.
  - (5) TREE PIT.
  - (6) HARDSCAPE ELEMENT.
  - (7) ROOT BARRIER BY DEEP ROOT. ROOT BOOSTER OR APPROVED EQUAL (24" DEEP).
  - (8) 3" HIGH BERM, SEE TREE PLANTING DETAIL.
  - (9) 3" MULCH WOOD BY-PRODUCT OR DECOMPOSED GRANITE (NO BINDER ADDED) PER PLAN.

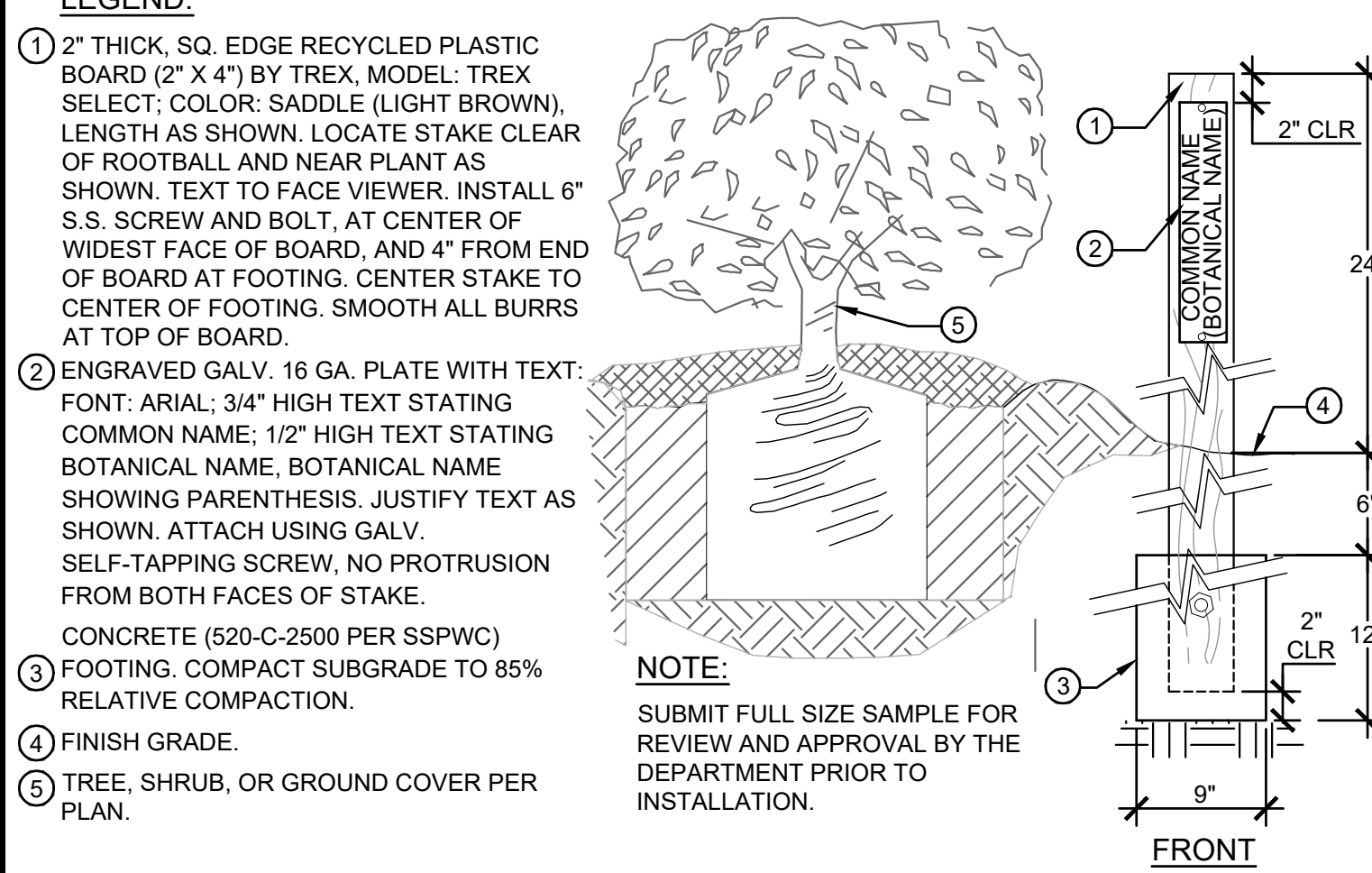
- NOTES:**
- INSTALL ROOT BARRIER IN LINEAR FASHION, PARALLEL AND ADJACENT TO HARDSCAPE ELEMENTS.
  - INSTALL ROOT BARRIER WHERE EDGE OF ROOTBALL IS 5' OR LESS AWAY FROM NEARBY PAVING AND VERTICAL ELEMENTS SUCH AS CURBS, WALLS, FOOTINGS OR ELEMENTS PRONE TO ROOT DAMAGE.
  - DO NOT ENCOMPASS THE ENTIRE ROOTBALL WITH ROOT BARRIER.

**A ROOT BARRIER** SCALE: NTS



- LEGEND:**
- (1) BACKFILL WATER BASIN W/3" OF UNCOMPACTED MULCH. KEEP MULCH AWAY FROM CROWN.
  - (2) FORM 3" HIGH BERM AROUND BASIN.
  - (3) FINISH GRADE.
  - (4) BACKFILL MIX. REFER TO SPECIAL PROVISIONS.
  - (5) FOOT TAMP NATIVE SOIL AS NECESSARY.
  - (6) SHRUB/GROUND COVER.
  - (7) ROOT BALL. SET TOP ROOTBALL 1" ABOVE FINISH GRADE.
  - (8) REFER TO SPECIAL PROVISIONS.

**D SHRUB PLANTING** SCALE: NTS

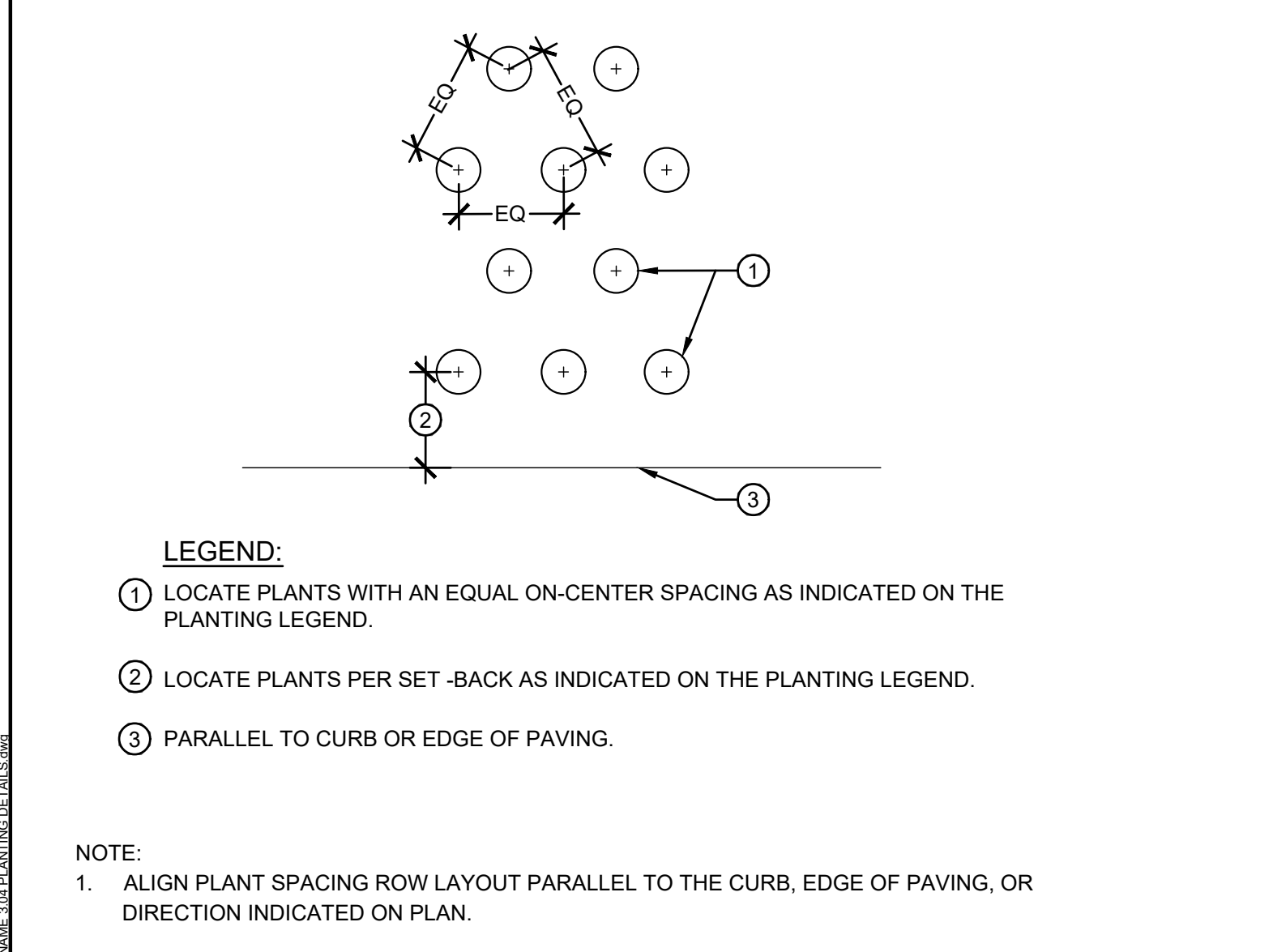


- LEGEND:**
- (1) 2" THICK, SQ. EDGE RECYCLED PLASTIC BOARD (2" X 4") BY TREX, MODEL: TREX SELECT. COLOR: SADDLE (LIGHT BROWN). LENGTH AS SHOWN. LOCATE STAKE CLEAR OF ROOTBALL AND NEAR PLANT AS SHOWN. TEXT TO FACE VIEWER. INSTALL 6" S.S. SCREW AND BOLT, AT CENTER OF WIDEST FACE OF BOARD, AND 4" FROM END OF BOARD AT FOOTING. CENTER STAKE TO CENTER OF FOOTING. SMOOTH ALL BURRS AT TOP OF BOARD.
  - (2) ENGRAVED GALV. 16 GA. PLATE WITH TEXT: FONT: ARIAL; 3/4" HIGH TEXT STATING COMMON NAME; 1/2" HIGH TEXT STATING BOTANICAL NAME, BOTANICAL NAME SHOWING PARENTHESIS. JUSTIFY TEXT AS SHOWN. ATTACH USING GALV. SELF-TAPPING SCREW, NO PROTRUSION FROM BOTH FACES OF STAKE.
  - (3) FOOTING. COMPACT SUBGRADE TO 85% RELATIVE COMPACTION.
  - (4) FINISH GRADE.
  - (5) TREE, SHRUB, OR GROUND COVER PER PLAN.

**NOTE:** SUBMIT FULL SIZE SAMPLE FOR REVIEW AND APPROVAL BY THE DEPARTMENT PRIOR TO INSTALLATION.

**B PLANT IDENTIFICATION TAG** SCALE: NTS

- GENERAL PLANTING NOTES:**
- PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY PERCEIVED DISCREPANCY BEFORE THE START OF CONSTRUCTION.
  - ANY SOIL PREPARATION AND PLANTING WITHIN THE DRIP LINE OF THE EXISTING TREES SHALL BE DONE BY HAND.
  - PLANT QUANTITIES IN PLANTING LEGEND ARE FOR CONTRACTOR'S CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PLANTS SHOWN ON PLANTING PLANS.
  - ALL PLANTS ARE TO BE INSTALLED OBSERVING THE MINIMUM SETBACK SHOWN IN THE PLANT LEGEND.
  - PLANT SPACING SHOWN IN LEGEND IS FOR REFERENCE ONLY. CONTRACTOR TO LAYOUT PLANTS IN FIELD WITH EXACT QUANTITY FOR EACH LOCATION AS SHOWN IN PLANS FOR APPROVAL PRIOR TO PLANTING.
  - ALL TREES ARE TO BE PLANTED MIN. 20' FROM EXISTING POWER POLES AND LIGHTS (WHERE APPLICABLE).
  - CONTRACTOR SHALL PROVIDE 3" DEEP LAYERS OF MULCH: WOOD BY-PRODUCT OR DECOMPOSED GRANITE PER PLAN. DECOMPOSED GRANITE USED AS MULCH FOR INSIDE TREE WELL, MATCH D.G. MANUFACTURER AND COLOR PER DECOMPOSED GRANITE PAVING LISTED IN CONSTRUCTION MATERIAL LEGEND, EXCEPT WITH NO STABILIZER ADDED.
  - CONTRACTOR SHALL PROVIDE MULCH TO EXISTING TREES INCLUDING THOSE LOCATED INSIDE SYNTHETIC TURF SOCCER FIELD.
  - UPON COMPLETION OF 90 DAY MAINTENANCE PERIOD, PROJECT MAINTENANCE RESPONSIBILITY SHALL BE BY DPR.



- LEGEND:**
- (1) LOCATE PLANTS WITH AN EQUAL ON-CENTER SPACING AS INDICATED ON THE PLANTING LEGEND.
  - (2) LOCATE PLANTS PER SET-BACK AS INDICATED ON THE PLANTING LEGEND.
  - (3) PARALLEL TO CURB OR EDGE OF PAVING.
- NOTE:**
- ALIGN PLANT SPACING ROW LAYOUT PARALLEL TO THE CURB, EDGE OF PAVING, OR DIRECTION INDICATED ON PLAN.

**E SHRUB AND GROUND COVER SPACING** SCALE: NTS

TREE LEGEND						
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WUCOLS
	CAS LEP	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	24" BOX	11	M
	CHI TAS	CHITALPA TASHKENTENSIS	CHITALPA	24" BOX	9	L
	LOP CON	LOPHOSTEMON CONFERTUS	BRISBANE BOX	24" BOX	4	M
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	24" BOX	6	M
		EXISTING TREE				

SHRUB AND GROUNDCOVER LEGEND								
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WUCOLS
	ACH PAP	ACHILLEA MILLEFOLIUM 'PAPRIKA'	PAPRIKA YARROW	1 GAL	295	1 FT.	2 FT.	L
	ACH ISL	ACHILLEA MILLEFOLIUM 'ISLAND PINK'	ISLAND PINK YARROW	1 GAL	234	1 FT.	2 FT.	L
	ACH TER	ACHILLEA MILLEFOLIUM 'TERRACOTTA'	TERRACOTTA YARROW	1 GAL	320	1 FT.	2 FT.	L
	AGA ATT	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	7	2 FT.	4 FT.	VL
	AGA VIL	AGAVE VILMORIANA	OCTOPUS AGAVE	5 GAL	7	1.5 FT.	3 FT.	VL
	ASC CUR	ASCLEPIAS CURASSAVICA	BLOOD FLOWER	1 GAL	77	1 FT.	2 FT.	L
	BAC PIG	BACCHARIS PILULARIS 'PIGEON POINT'	PROSTRATE COYOTE BUSH	1 GAL	56	3 FT.	6 FT.	L
	CAR PRA	CAREX PRAEGRACILIS	CALIFORNIA FIELD SEDGE	1 GAL	139	10 IN.	1 FT.	M
	DIE IRI	DIETES IRIDIOIDES	FORTNIGHT LILY	5 GAL	28	1.5 FT	3 FT	L
	ERI GLA	ERIGERON GLAUCUS	BEACH ASTER	1 GAL	87	0.75 FT	1.5 FT	L
	HES PAR	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	32	2 FT.	4 FT.	L
	IRI DOU	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	309	1.25 FT	2.5 FT	L
	JUN PAT	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	228	1 FT.	2 FT.	L
	LAN NEW	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL	278	3 FT.	6 FT.	L
	LAV STO	LAVANDULA STOECHAS	SPANISH LAVENDER	5 GAL	24	1.5 FT.	3 FT.	L
	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	239	1.5 FT.	3 FT.	L
	ROS PRO	ROSEMARY 'PROSTRATUS'	CREeping ROSEMARY	5 GAL	86	2.25 FT.	4.5 FT.	L
	SAL LEU	SALVIA LEUCOPHYLLA	PURPLE SAGE	5 GAL	45	2.5 FT.	5 FT.	L
	SAL GRE	SALVIA GREGGII	AUTUMN SAGE	5 GAL	52	1.5 FT.	3 FT.	L

- NOTE:**
- EACH TREE AND PLANT TYPE SHALL HAVE PLANT IDENTIFICATION TAGS AT (3) SEPARATE LOCATIONS. REFER TO DETAIL FOR INSTALLATION OF TAG. LOCATION OF TAGS TO BE DETERMINED IN FIELD BY LANDSCAPE ARCHITECT. THESE TAGS SHALL BE PLACED FOR PLANTS WITHIN THE EDUCATION GARDEN AREA.
  - PLANT QUANTITY ON LEGEND REFLECTS OVERALL TOTAL QUANTITY FOR THE ENTIRE PROJECT.

**E SHRUB AND GROUND COVER SPACING** SCALE: NTS

CALL 8-1-1 TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION

REVISIONS

SIGNED PLANS FOR FINAL UTILITY NOTICE

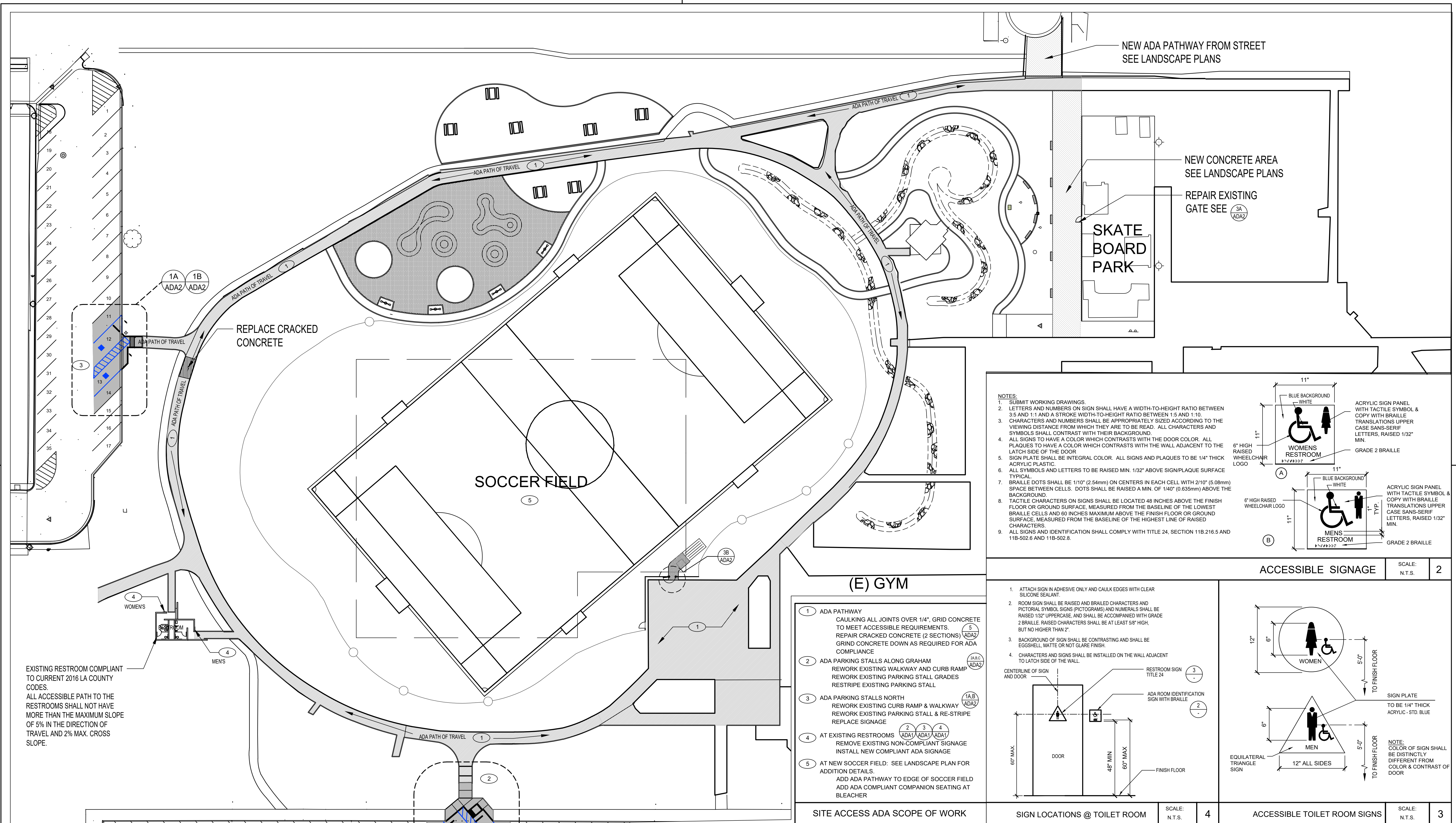
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT LANDSCAPE IMPROVEMENTS

PLANTING NOTES, LEGEND, AND DETAILS

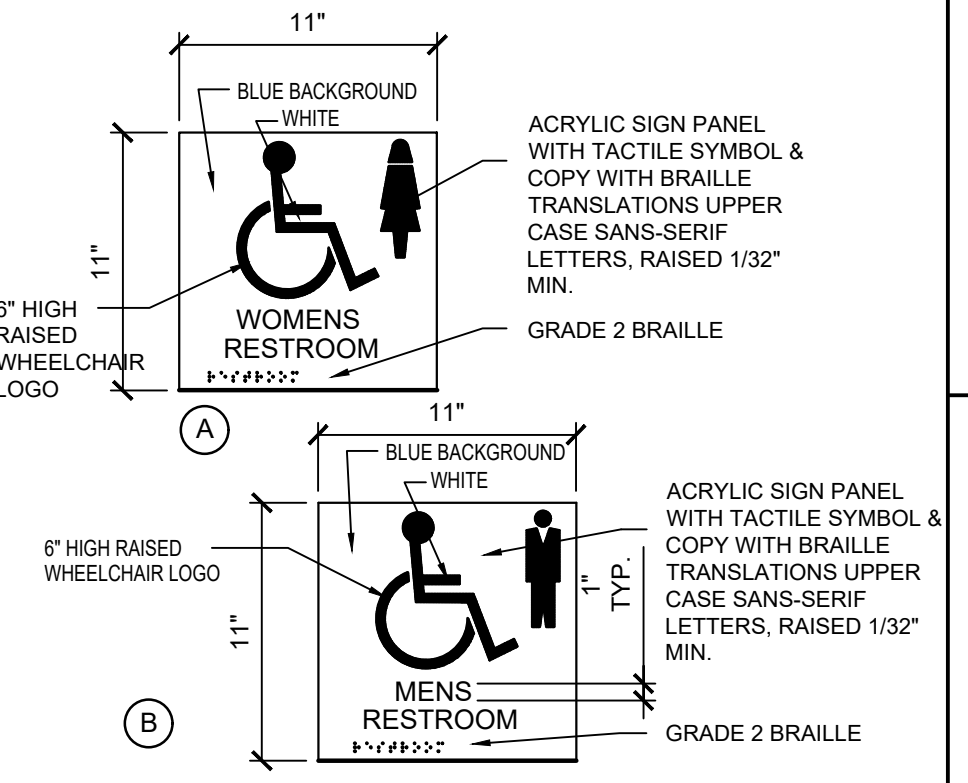
PROJ ID NO. PCA F21812149 SHEET 37 OF 63

LS-3.04



EXISTING RESTROOM COMPLIANT TO CURRENT 2016 LA COUNTY CODES. ALL ACCESSIBLE PATH TO THE RESTROOMS SHALL NOT HAVE MORE THAN THE MAXIMUM SLOPE OF 5% IN THE DIRECTION OF TRAVEL AND 2% MAX. CROSS SLOPE.

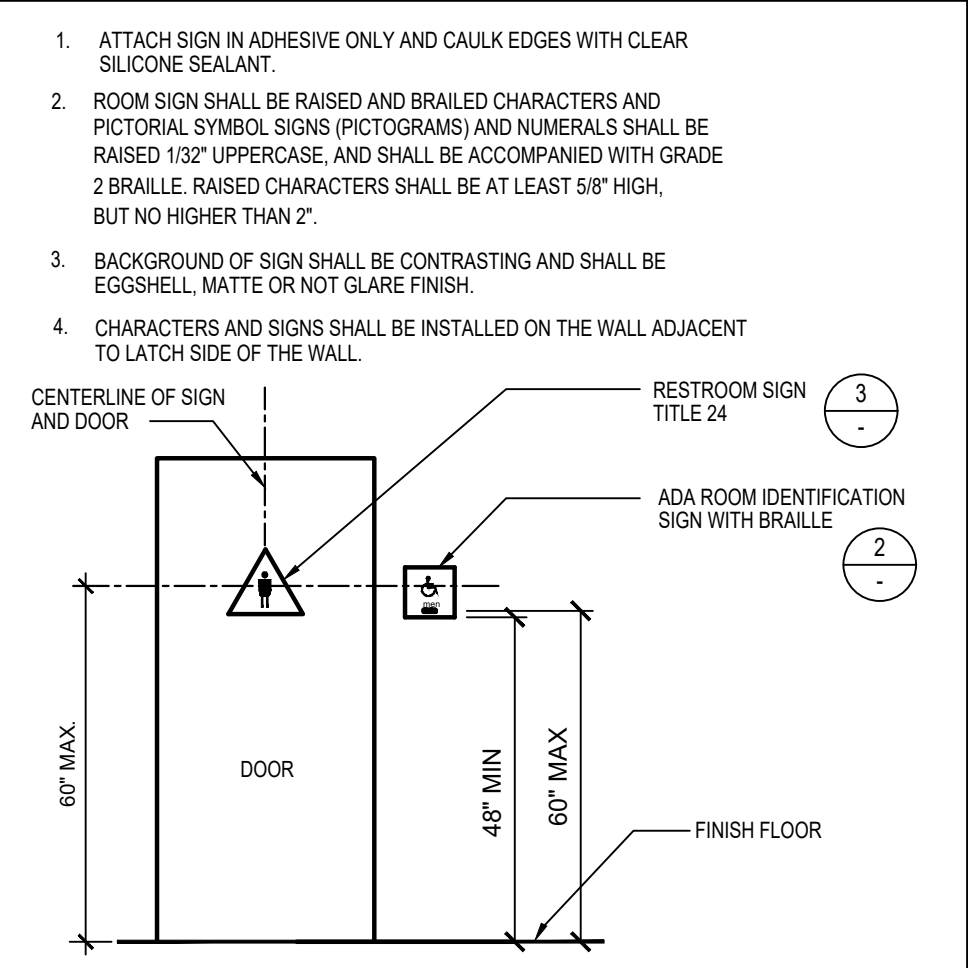
- NOTES:**
1. SUBMIT WORKING DRAWINGS.
  2. LETTERS AND NUMBERS ON SIGN SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
  3. CHARACTERS AND NUMBERS SHALL BE APPROPRIATELY SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. ALL CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
  4. ALL SIGNS TO HAVE A COLOR WHICH CONTRASTS WITH THE DOOR COLOR. ALL PLAQUES TO HAVE A COLOR WHICH CONTRASTS WITH THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.
  5. SIGN PLATE SHALL BE INTEGRAL COLOR. ALL SIGNS AND PLAQUES TO BE 1/4" THICK ACRYLIC PLASTIC.
  6. ALL SYMBOLS AND LETTERS TO BE RAISED MIN. 1/32" ABOVE SIGN/PLAQUE SURFACE TYPICAL.
  7. BRAILLE DOTS SHALL BE 1/10" (2.54mm) ON CENTERS IN EACH CELL WITH 2/10" (5.08mm) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MIN. OF 1/40" (0.635mm) ABOVE THE BACKGROUND.
  8. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
  9. ALL SIGNS AND IDENTIFICATION SHALL COMPLY WITH TITLE 24, SECTION 11B.216.5 AND 11B-502.6 AND 11B-502.8.



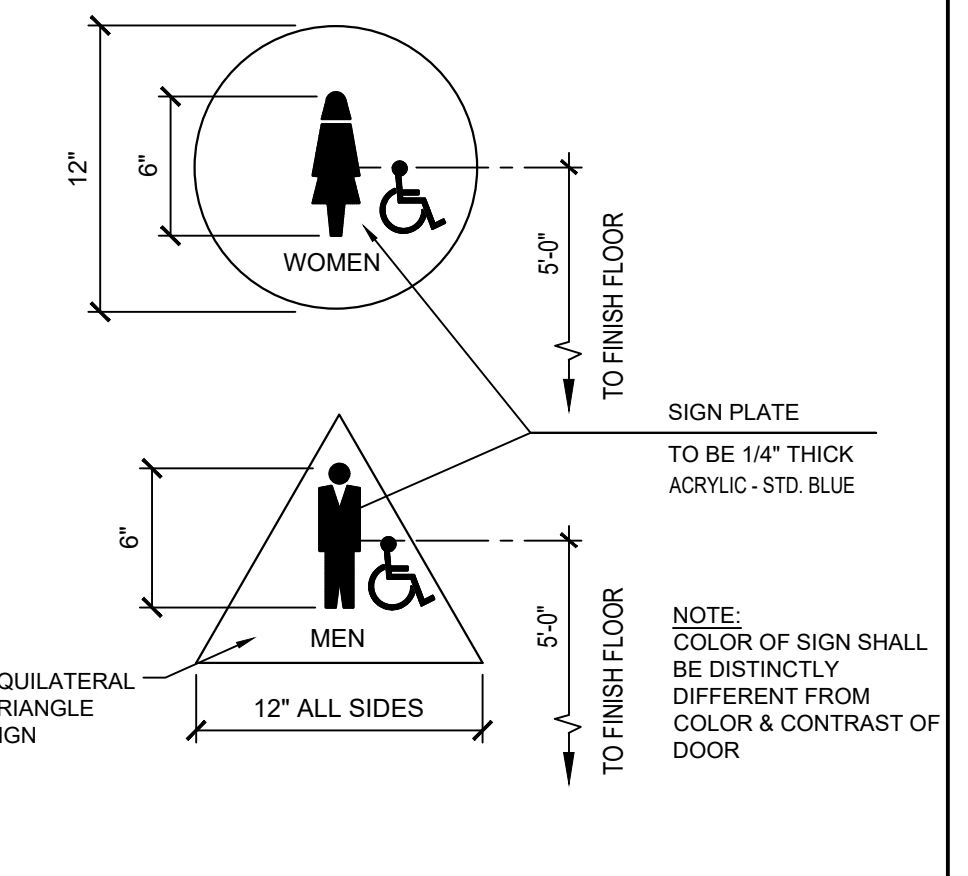
ACCESSIBLE SIGNAGE SCALE: N.T.S. 2

- (E) GYM**
1. ADA PATHWAY  
CAULKING ALL JOINTS OVER 1/4". GRID CONCRETE TO MEET ACCESSIBLE REQUIREMENTS. REPAIR CRACKED CONCRETE (2 SECTIONS) ADA2 GRIND CONCRETE DOWN AS REQUIRED FOR ADA COMPLIANCE.
  2. ADA PARKING STALLS ALONG GRAHAM  
REWORK EXISTING WALKWAY AND CURB RAMP REWORK EXISTING PARKING STALL GRADES RESTRIPE EXISTING PARKING STALL.
  3. ADA PARKING STALLS NORTH  
REWORK EXISTING CURB RAMP & WALKWAY REWORK EXISTING PARKING STALL & RE-STRIPE REPLACE SIGNAGE.
  4. AT EXISTING RESTROOMS  
REMOVE EXISTING NON-COMPLIANT SIGNAGE INSTALL NEW COMPLIANT ADA SIGNAGE.
  5. AT NEW SOCCER FIELD:  
SEE LANDSCAPE PLAN FOR ADDITION DETAILS.  
ADD ADA PATHWAY TO EDGE OF SOCCER FIELD  
ADD ADA COMPLIANT COMPANION SEATING AT BLEACHER.

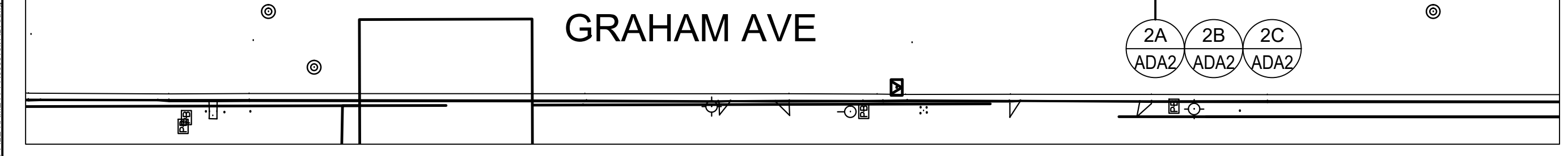
SITE ACCESS ADA SCOPE OF WORK



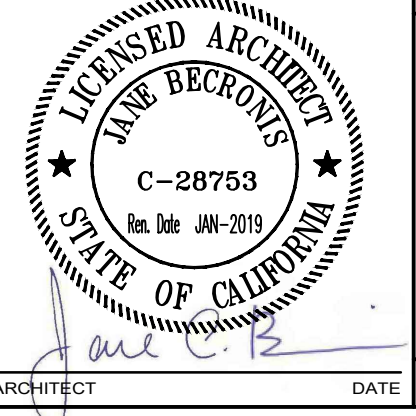
SIGN LOCATIONS @ TOILET ROOM SCALE: N.T.S. 4



ACCESSIBLE TOILET ROOM SIGNS SCALE: N.T.S. 3



DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

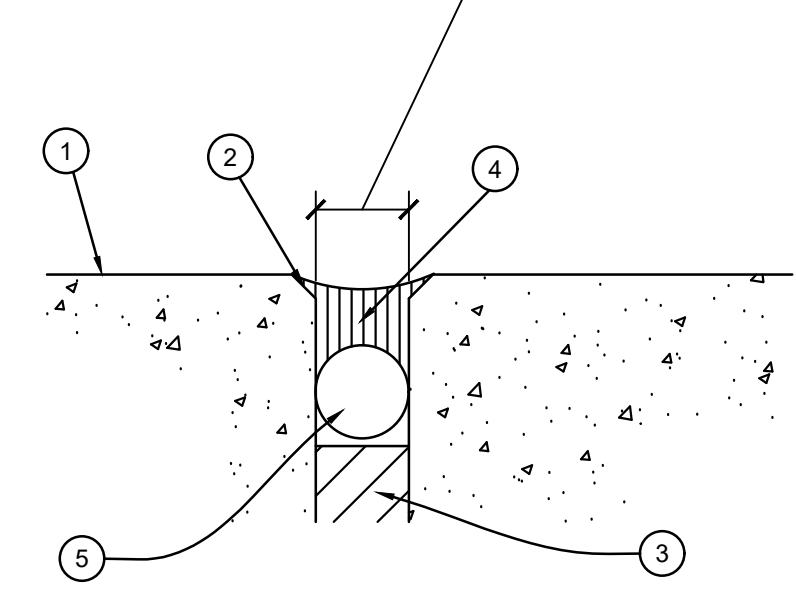
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

ACCESSIBILITY PLANS & DETAILS

PROJ ID NO. # PCA F21812149

SHEET 38 OF 63

EXISTING CONDITION:  
REMOVE AND CLEAN EXISTING JOINTS AND RE-CAULK JOINTS WITH SIKAFLEX 2C NS OR APPROVED EQUAL, WHEN JOINTS ARE LARGER THAN 1/4" DEEP AND 1/2" WIDE



TYPICAL ENLARGEMENT OF EXPANSION JOINT

- LEGEND:
- (E) CONC. PAVING
  - (E) TOOLED EDGE
  - INSTALL EXP. JOINT FILLER
  - INSTALL SEALANT PER MANUFACTURE'S INSTRUCTIONS
  - INSTALL BACKER ROD

NOTE:  
ALL HATCHED WALKWAY AS INDICATED ON THE SITE PLAN SHEET ADA-1 SHALL BE RE-CAULKED AT THE CONCRETE CONTROL OR EXPANSION JOINTS FOR COMPLIANCE TO WITH ADA REQUIREMENTS.

RE-CAULK CONTROL/EXPANSION JOINTS

SCALE: N.T.S. 5

PARTIAL SITE PLAN - ENTRANCE TO SKATE PARK

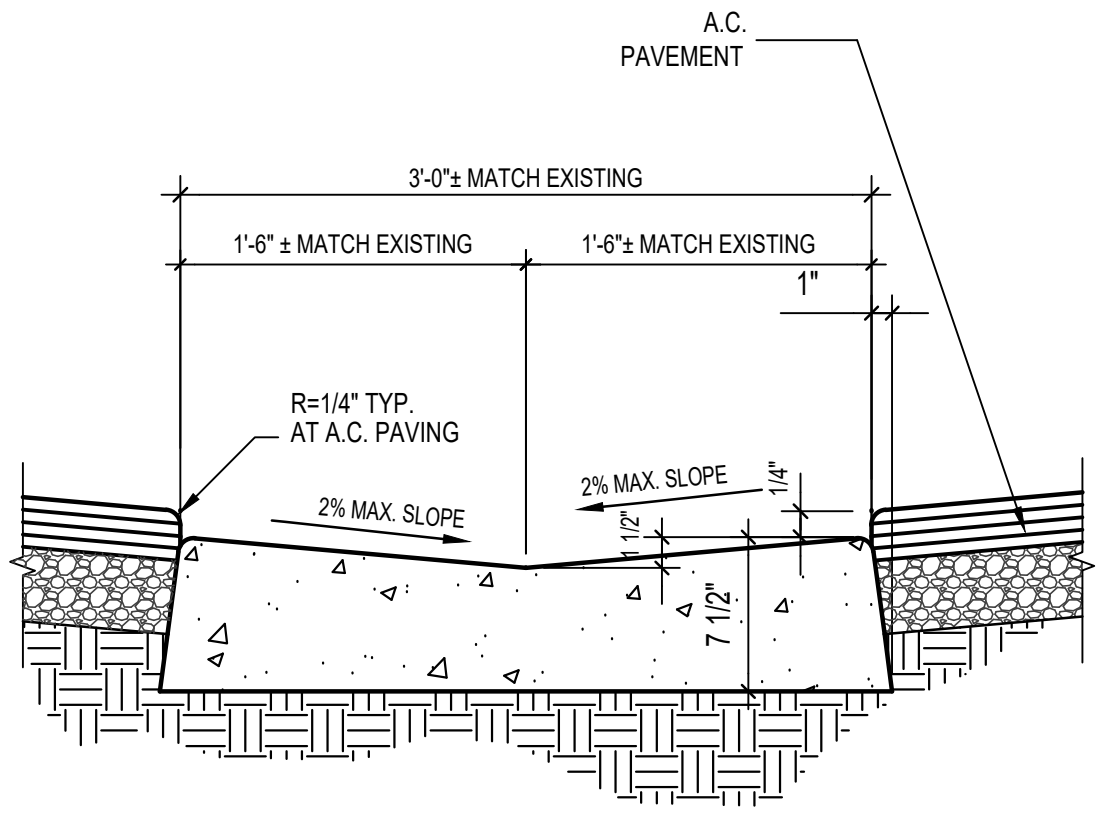
SCALE: 1/4"=1'-0" 3A

PARTIAL SITE PLAN - ADA PARKING STALLS AT PARKING LOT

SCALE: 1"=10'-0" 1B

PARTIAL DEMOLITION PLAN - ADA PARKING STALLS AT PARKING LOT

SCALE: 1"=10'-0" 1A



CONCRETE V-GUTTER

SCALE: N.T.S. 4

SITE PLAN - ADA PARKING STALLS AT GRAHAM AVE. GRADES

SCALE: 1"=10'-0" 2C

SITE PLAN - ADA PARKING STALLS AT GRAHAM AVE. DIMENSIONS

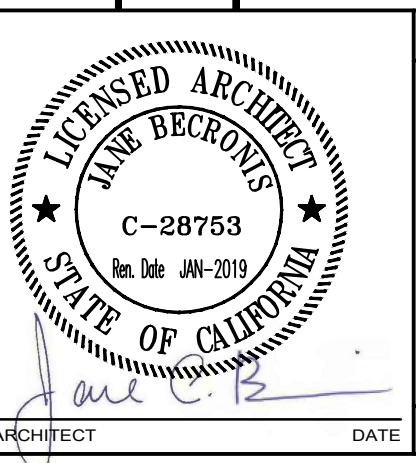
SCALE: 1"=10'-0" 2B

PARTIAL SITE DEMOLITION PLAN - ADA PARKING STALLS AT GRAHAM AVE.

SCALE: 1"=10'-0" 2A



DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

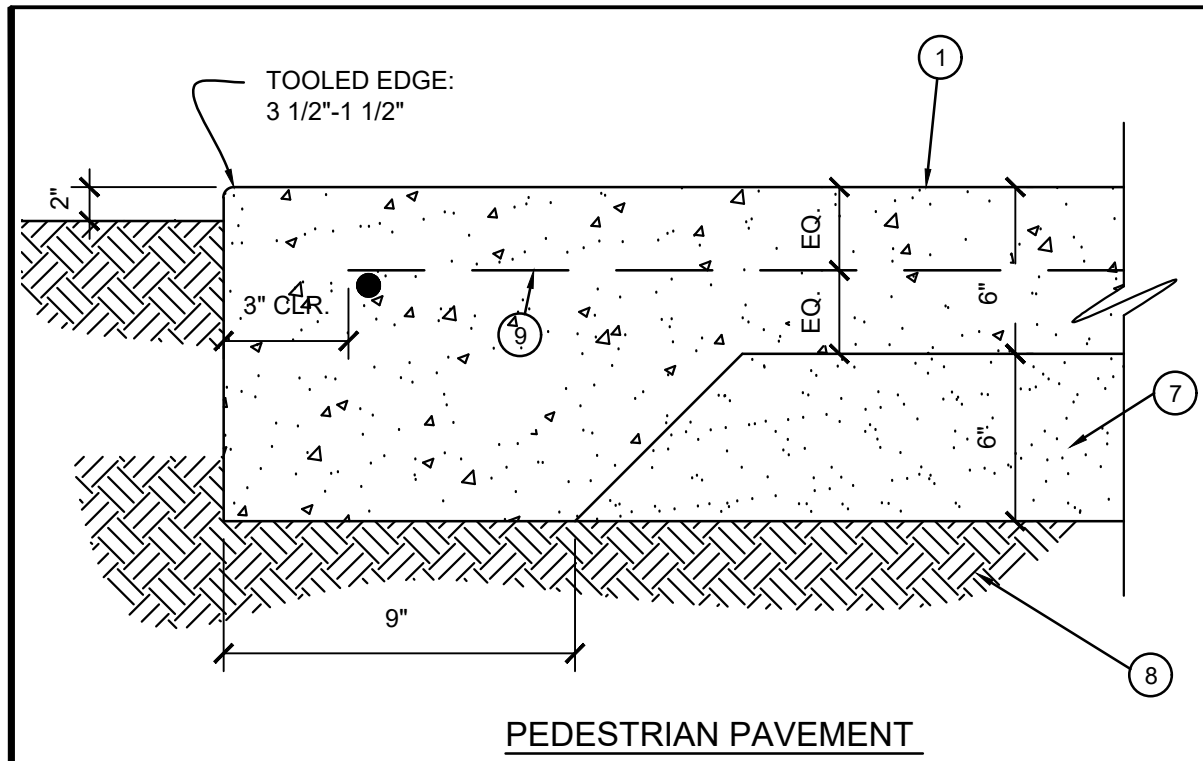
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

ACCESSIBILITY PLANS & DETAILS

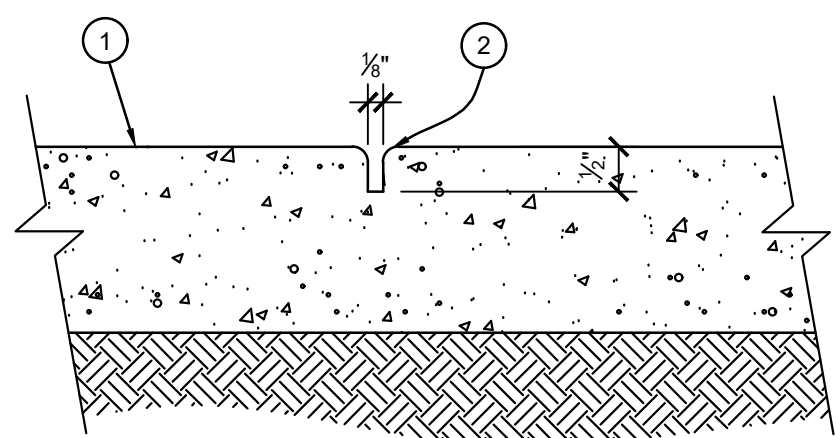
PROJ ID NO. # PCA F2181249

SHEET 39 OF 63

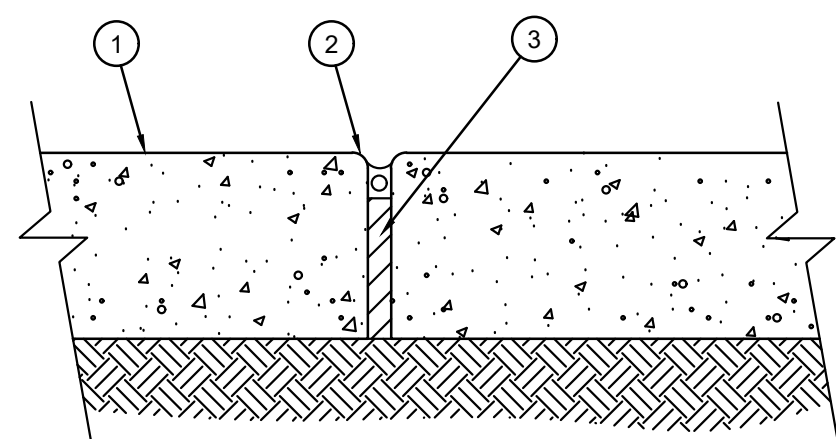




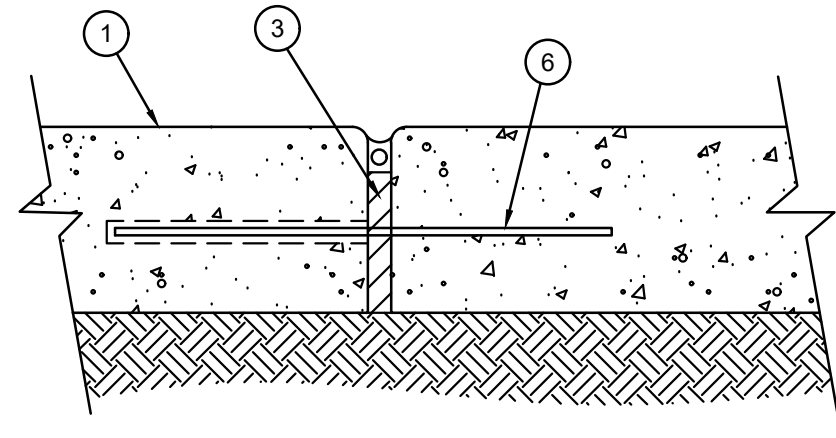
PEDESTRIAN PAVEMENT



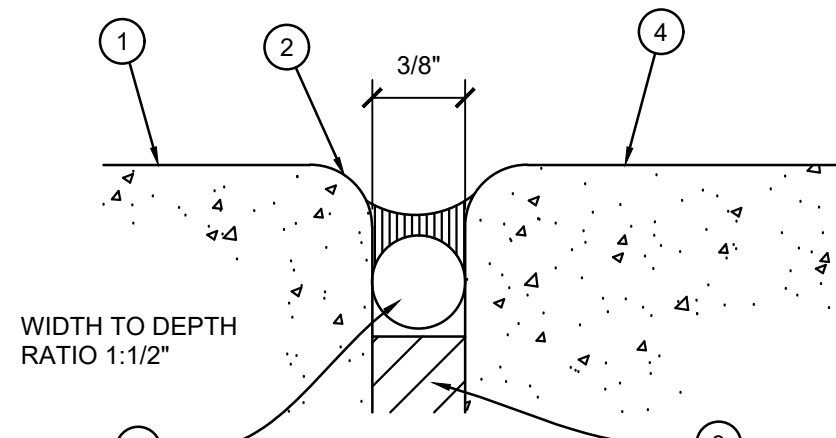
A. CONTROL JOINT



B. EXPANSION JOINT WITH SEALANT



C. DOWELED COLD JOINT

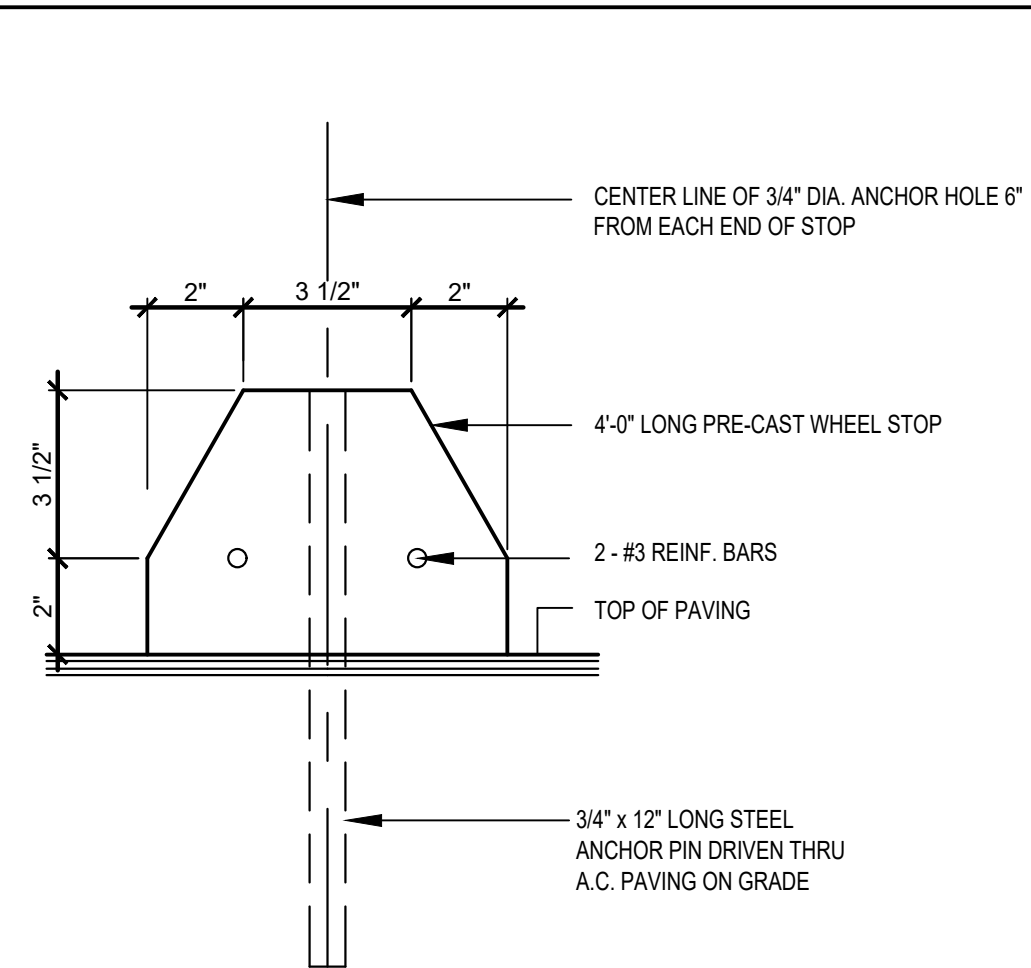


TYPICAL ENLARGEMENT OF EXPANSION JOINT

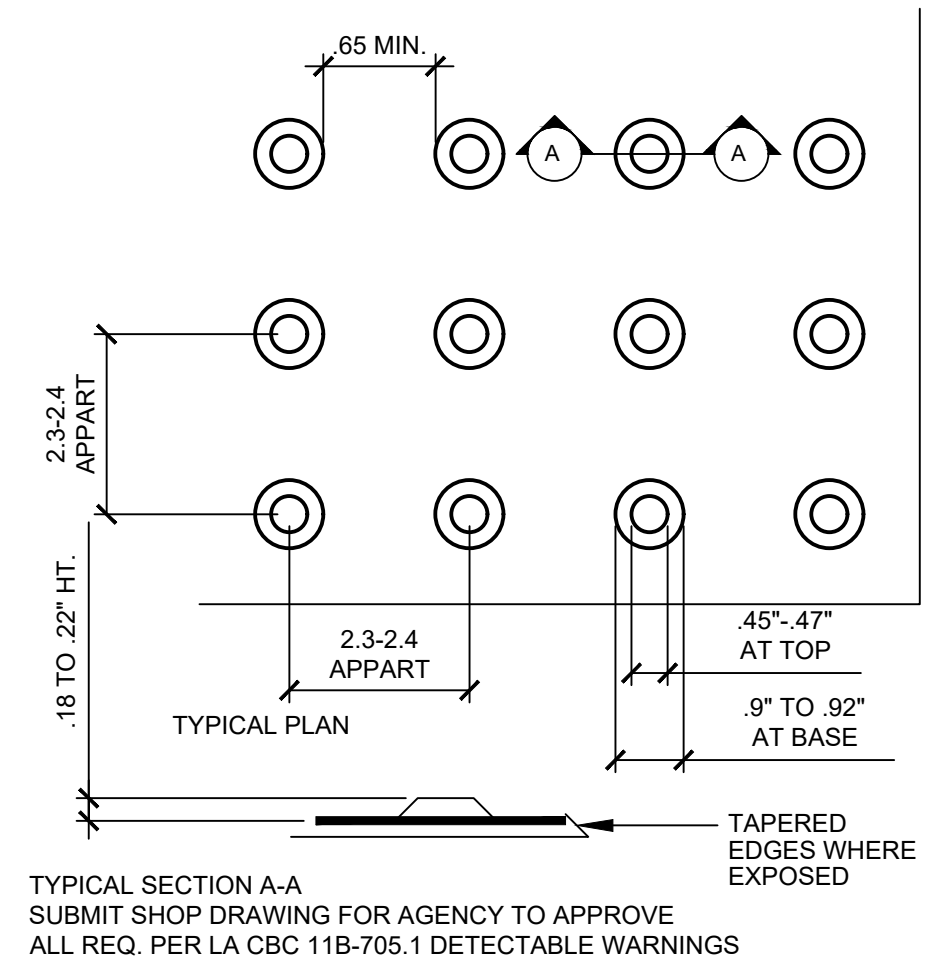
- LEGEND:**
1. CONC. PAVING - SEE ADA SPECIFICATION FOR CONCRETE REQUIREMENTS
  2. 1/4" TOOLED RADIUS EDGE
  3. PREMOLDED EXP. JOINT FILLER
  4. SEALANT W/ SAND FINISH
  5. BACKER ROD
  6. 18" SLIP DOWEL @ 36" O.C., CTR. IN CONC.
  7. SAND
  8. 90% COMPACTED SUBGRADE
  9. 6"x6" BY 10ga. x 10ga. WW MESH REINFORCING

- NOTES:**
1. PLACE EXPANSION JOINTS @ 20'-0" AND CONTROL JOINTS AT 4'-0" O.C. EACH WAY.
  2. SLOPE SHALL NOT EXCEED 5% IN THE DIRECTION OF TRAVEL AND 2% CROSS SLOPE.
  3. SLOPE SHALL NOT EXCEED 2% IN ANY DIRECTION AT LEVEL LANDINGS.

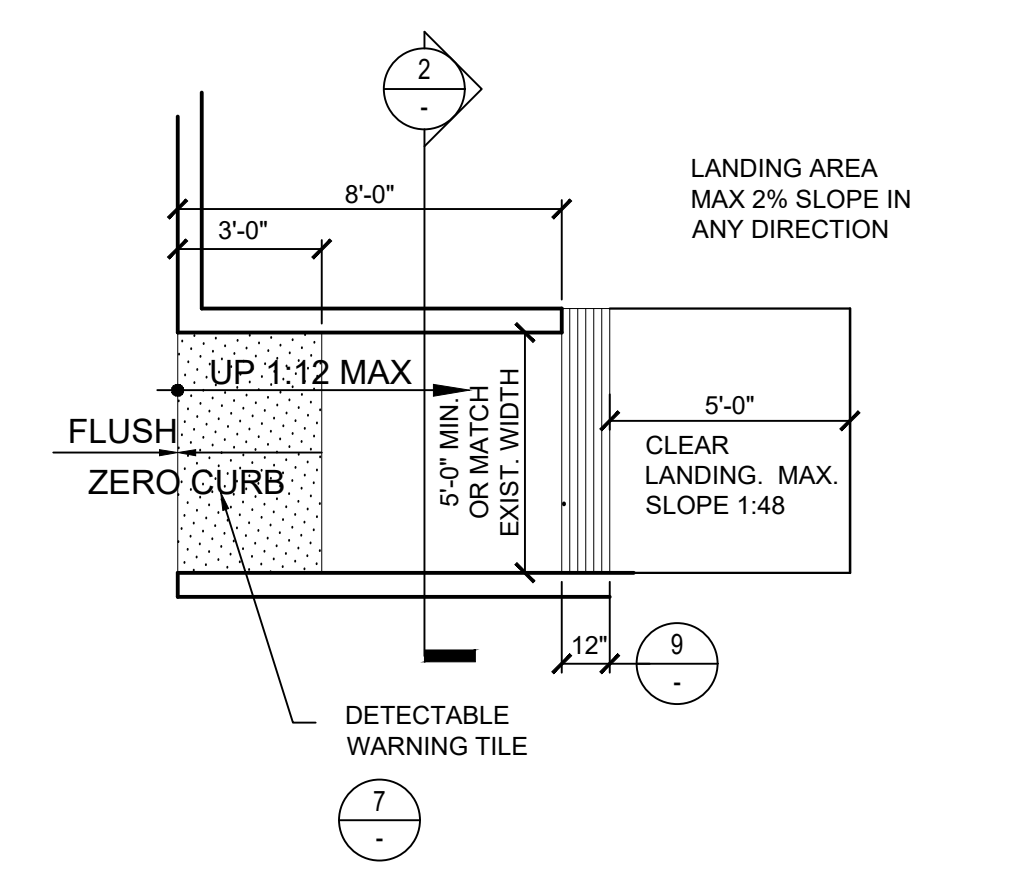
CONCRETE WALKWAY 10



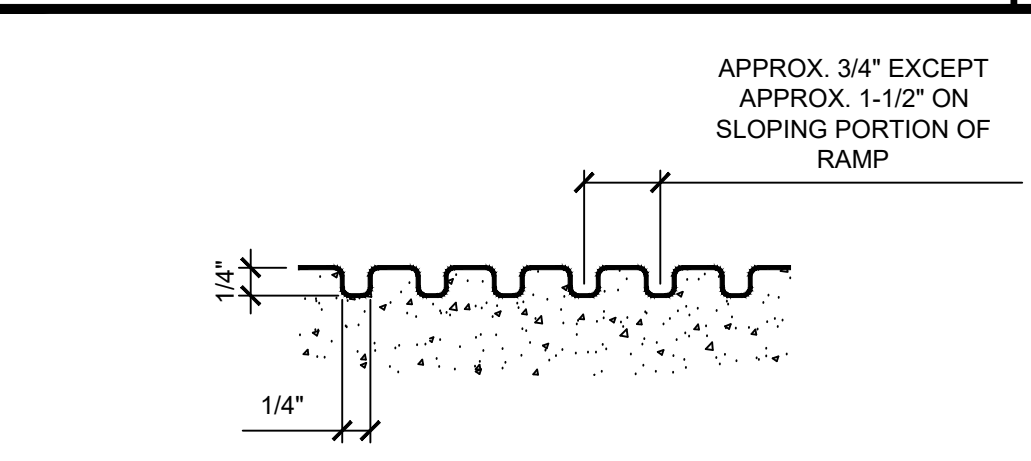
WHEEL STOP 6



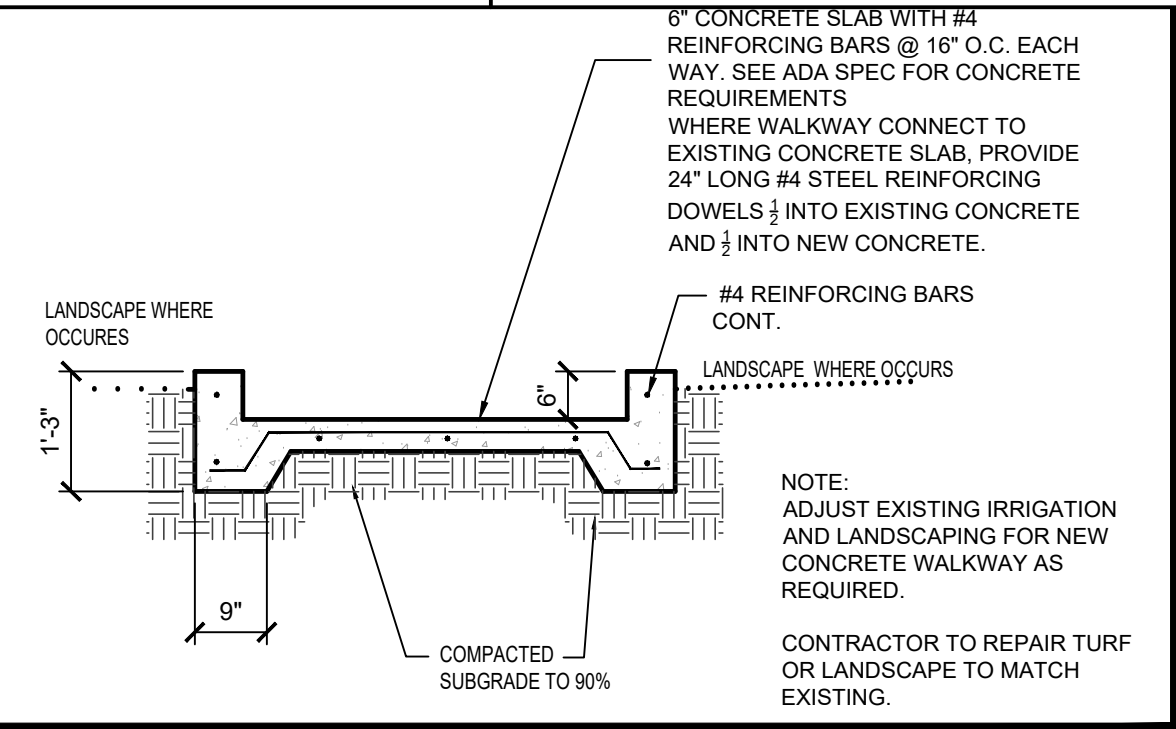
TRUNCATED DOMES 7



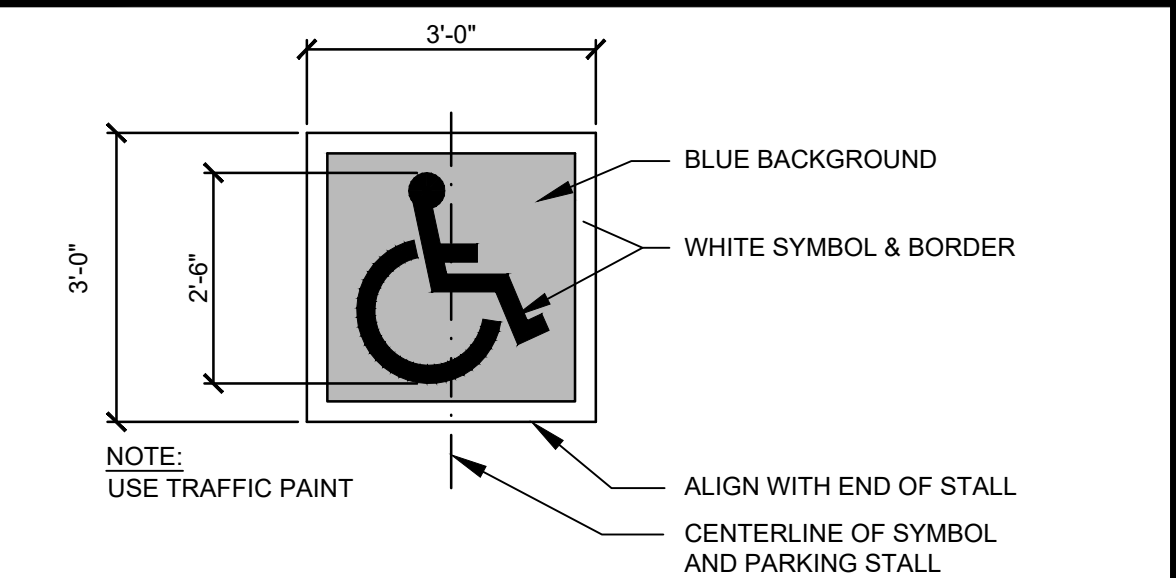
CURB RAMP DETAIL 8



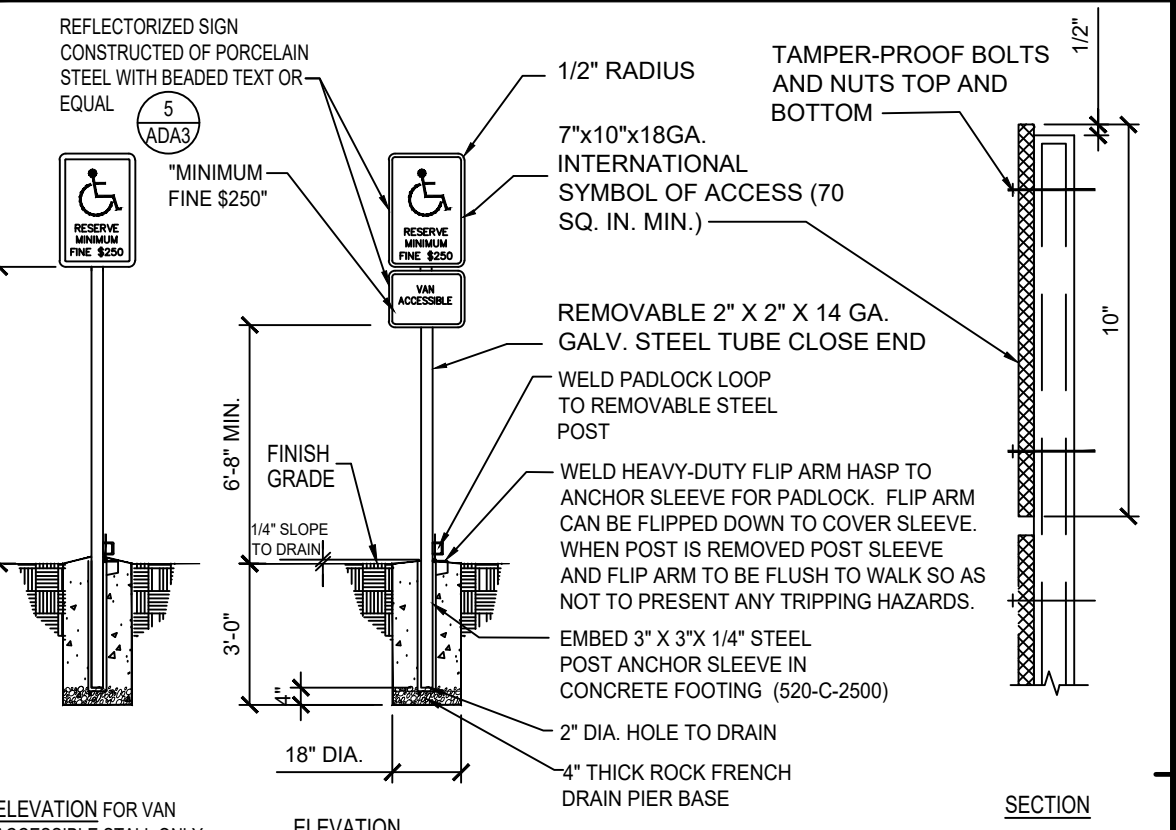
GROOVING DETAIL 9



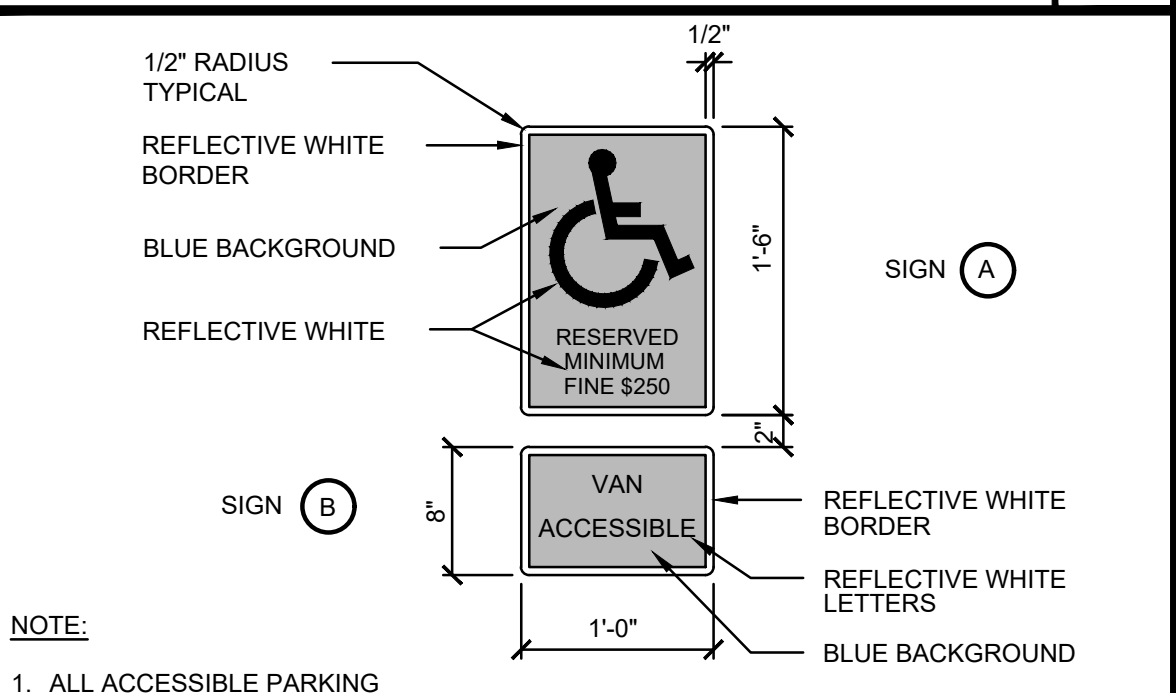
CONCRETE RAMP SECTION 2



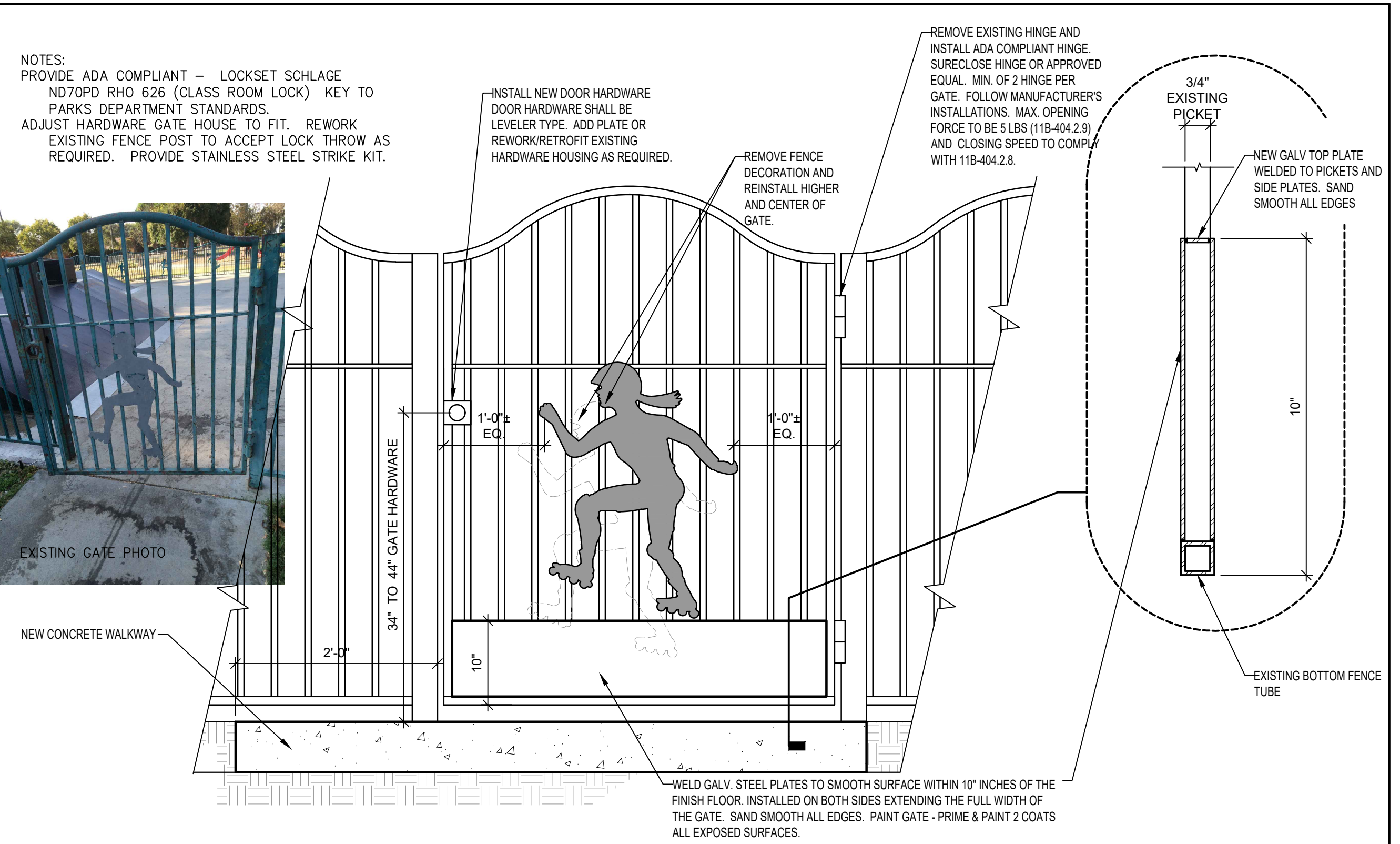
ISA SYMBOL STENCIL 3



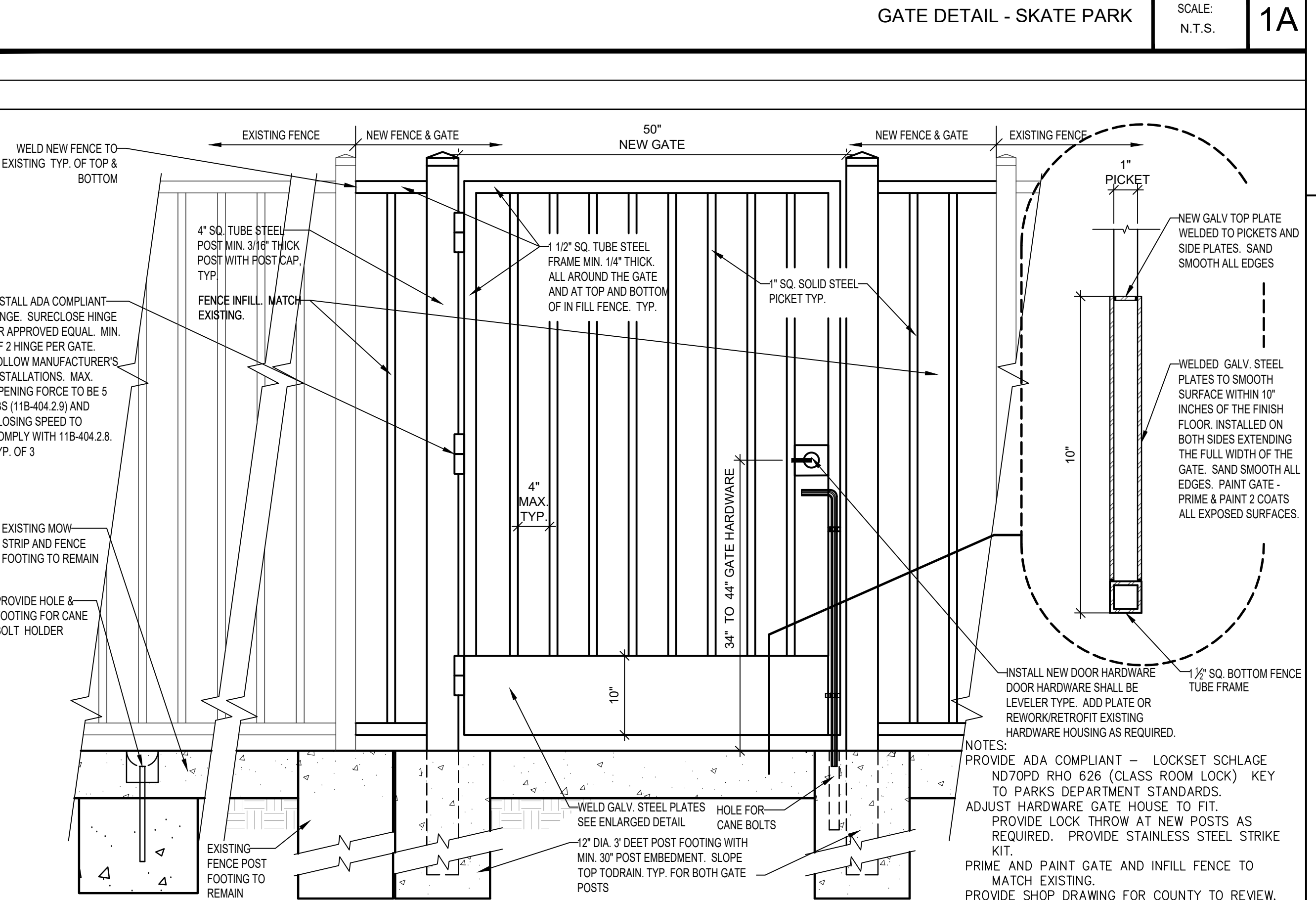
SIGN POST 4



DISABLED PARKING SIGN 5



GATE DETAIL - SKATE PARK 1A



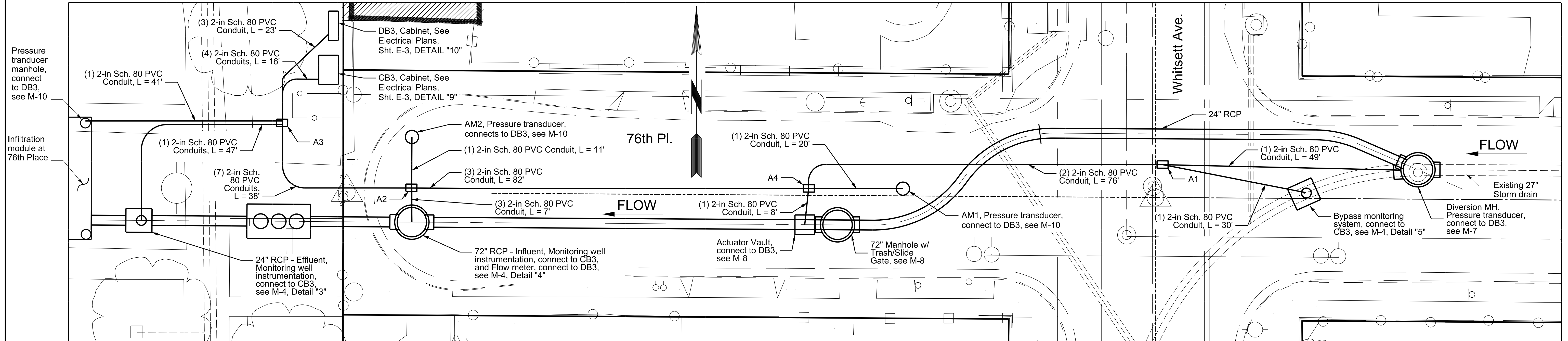
GATE DETAIL - SOCCER FIELD 1B



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
FRANKLIN D. ROOSEVELT PARK REGIONAL  
STORMWATER CAPTURE PROJECT

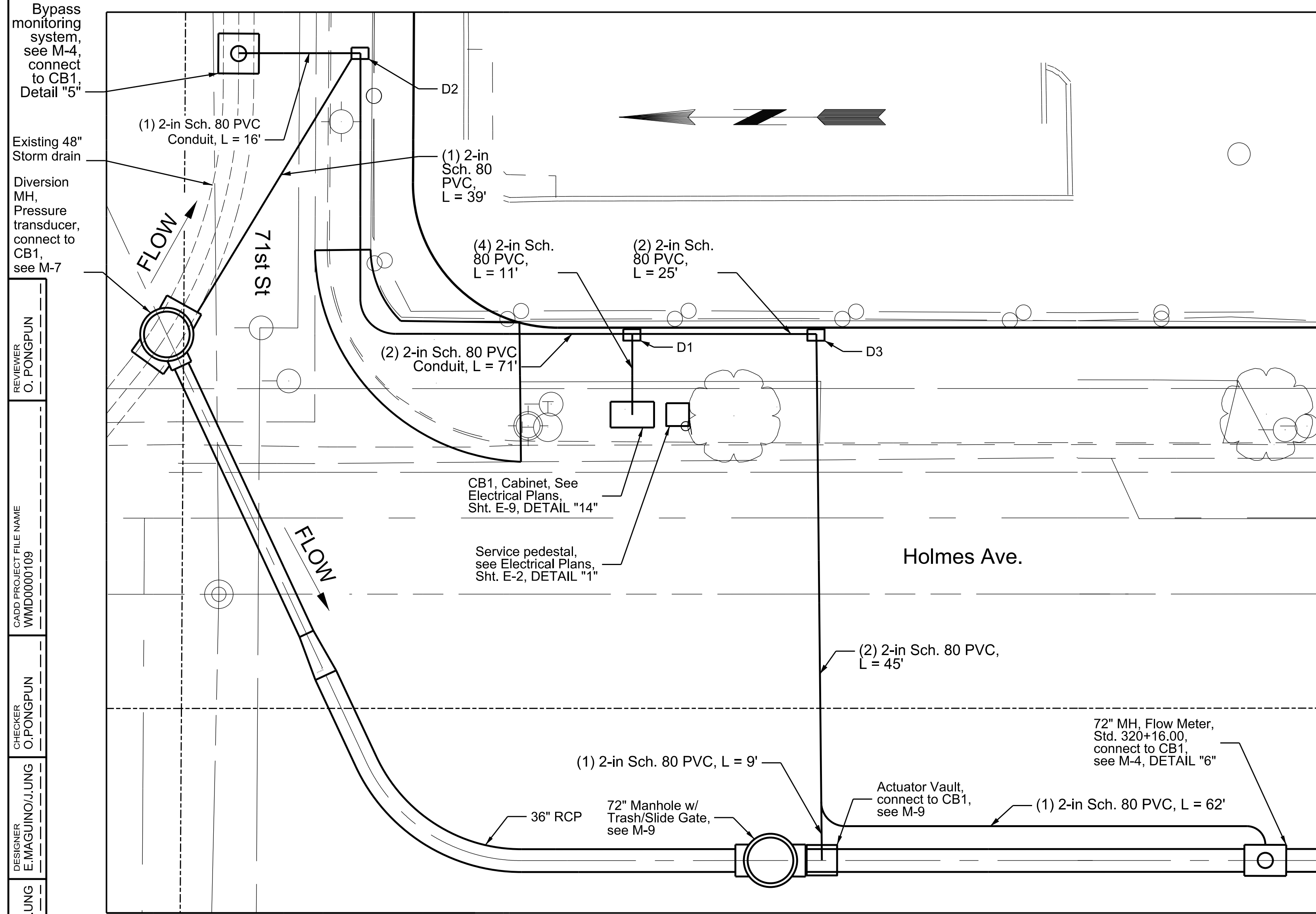
ACCESSIBILITY PLANS & DETAILS ADA-3

DATE	MK	DESCRIPTION	ARCHITECT	DATE	PROJ ID NO. #	PCA F2181249	SHEET 40 OF 63



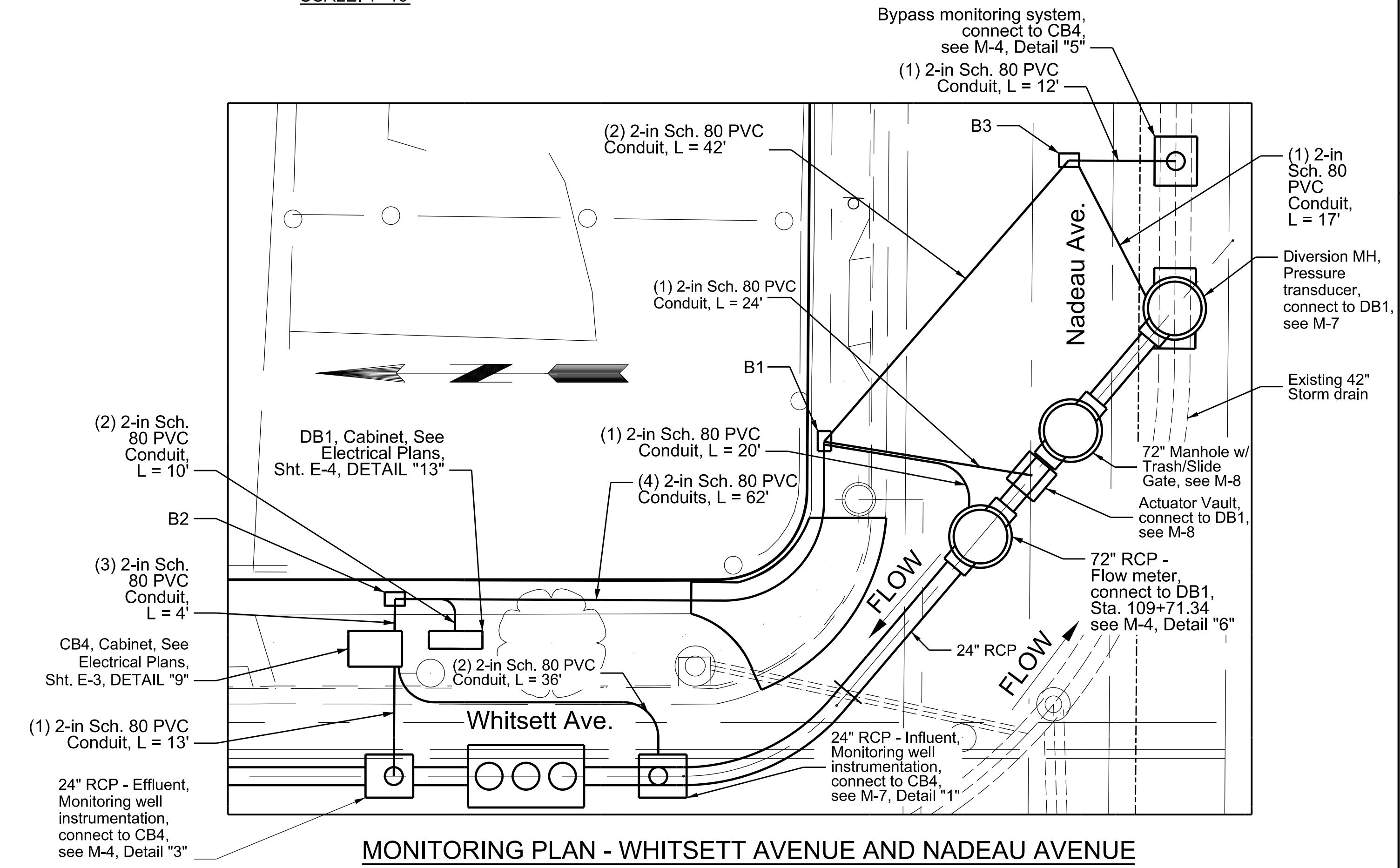
**MONITORING PLAN - 76TH PLACE**

SCALE: 1"-10'



**MONITORING PLAN - HOLMES AVENUE BYPASS**

SCALE: 1"-10'



**MONITORING PLAN - WHITSETT AVENUE AND NADEAU AVENUE**

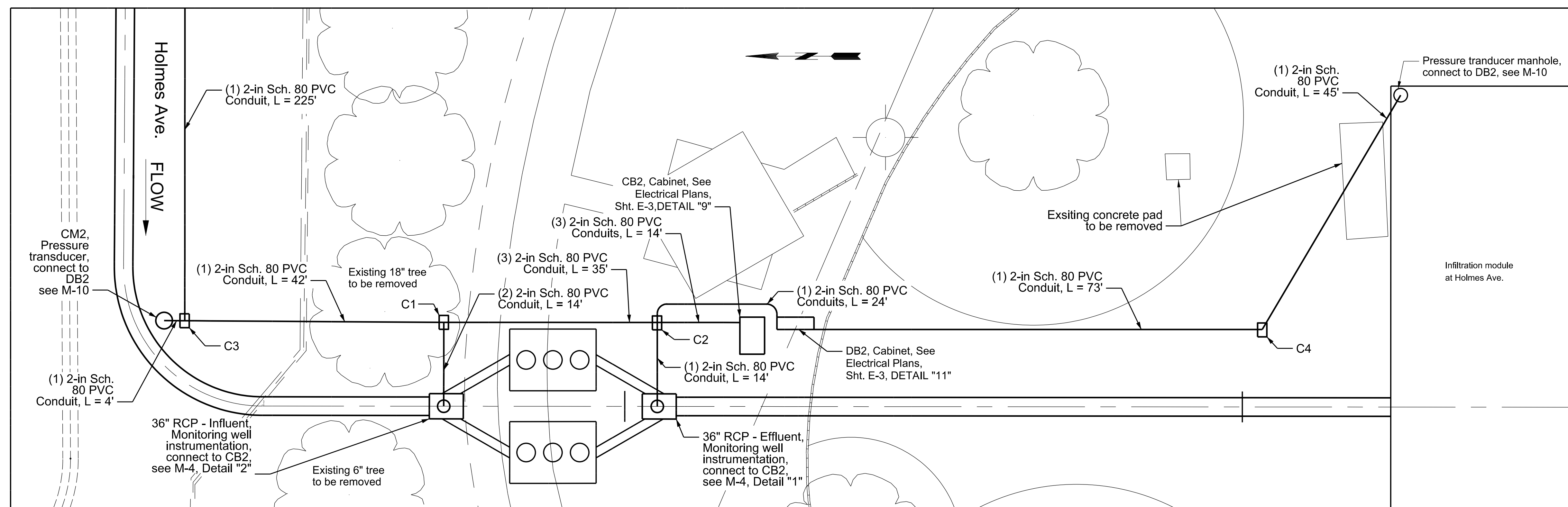
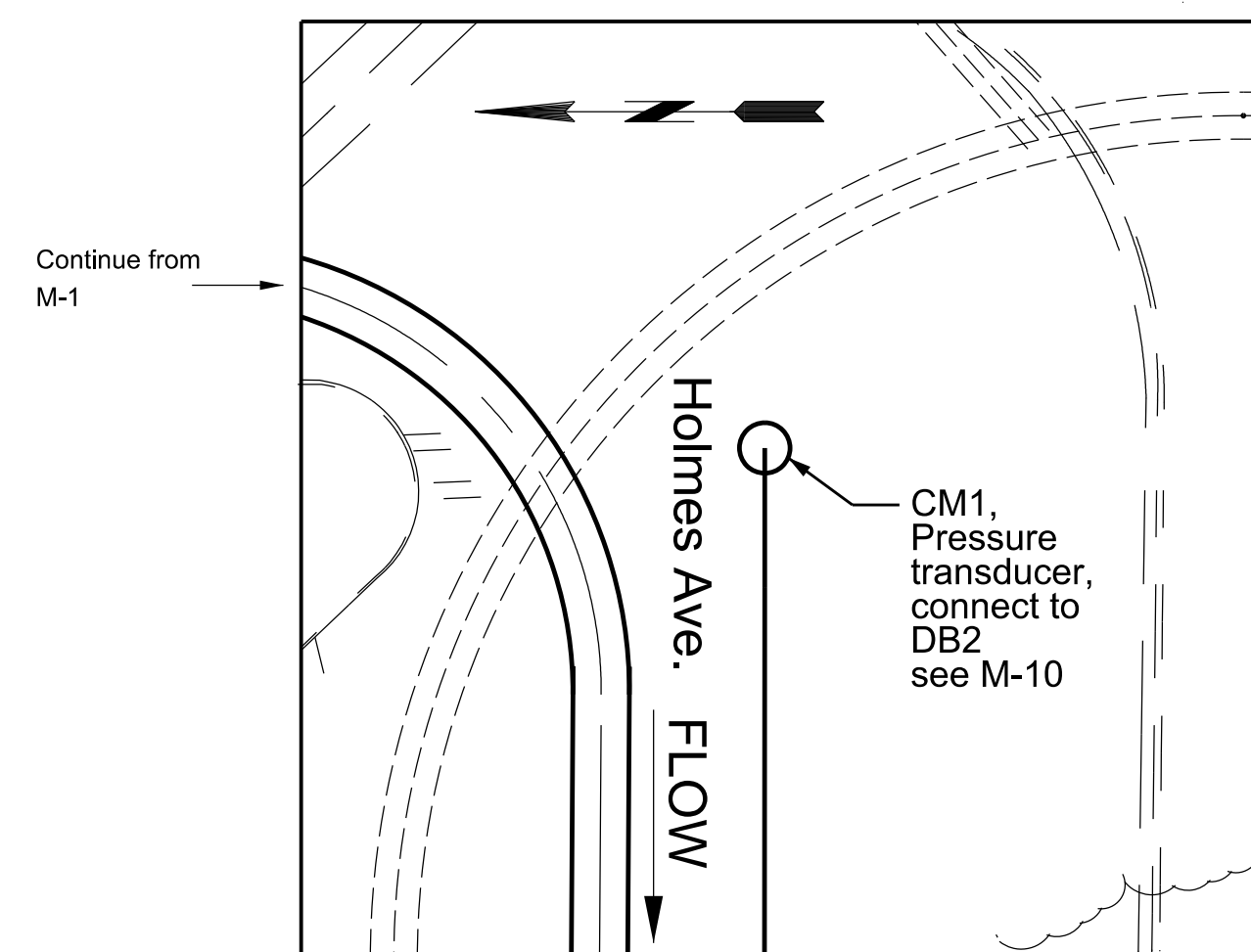
SCALE: 1"-10'

REVIEWER: O. PONGPUN  
 CHECKER: O. PONGPUN  
 DESIGNER: E. MAGUINOJUNG  
 DRAFTER: E. MAGUINOJUNG

DATE	MK	DESCRIPTION

Professional Engineer Seal for Opart Pongpun, No. M 36456, Mechanical, State of California. Signature and date: 4/5/19.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
 MONITORING CONDUIT PLAN  
 WMD0000109 PCA F21812149 SHEET 41 OF 63



MONITORING PLAN - HOLMES AVENUE INFLUENT AND EFFLUENT

SCALE: 1"=10'

76th Place		Whitsett Ave. & Nadeau Ave.		Holmes Ave.		Holmes Ave. Bypass	
A1	N: 1811924.88 E: 6488715.22	B1	N: 1810644.14 E: 6488759.75	C1	N: 1812520.72 E: 6488277.82	D1	N: 1813500.98 E: 6488595.69
A2	N: 1811920.03 E: 6488561.71	B2	N: 1810692.15 E: 6488742.12	C2	N: 1812486.96 E: 6488277.82	D2	N: 1813536.61 E: 6488632.55
A3	N: 1811933.29 E: 6488534.24	B3	N: 1810616.79 E: 6488791.23	C3	N: 1812562.60 E: 6488278.08	D3	N: 1813476.69 E: 6488595.70
A4	N: 1811920.01 E: 6488642.79	CB4	N: 1810694.37 E: 6488736.54	C4	N: 1812388.13 E: 6488276.71	CB1	N: 181500.92 E: 6488585.07
AM1	N: 1811919.95 E: 6488662.06	DB1	N: 1810685.36 E: 6488737.56	CM1	N: 1812562.56 E: 6488622.01		
AM2	N: 1811930.47 E: 6488561.75			CM2	N: 1812565.95 E: 6488278.08		
CB3	N: 1811944.14 E: 6488544.69			CB2	N: 1812470.71 E: 6488275.69		
DB3	N: 1811953.13 E: 6488545.69			DB2	N: 1812463.69 E: 6488277.69		

Notes: Install Pull Box Per Detail on M-1 and M-2 At Each Point Listed In Table Above (Except for AM1, AM2, CM1, CM2, CB1, CB2, CB3, CB4, DB1, DB2, DB3)  
 Install Monitoring Well Per Details on M-10 at Points AM1, AM2, CM1, CM2  
 Install Monitoring Enclosure Per Details Hereon at Points CB1, CB2, CB3, CB4, DB1, DB2, DB3

REVIEWER: O. PONGPUN  
 CHECKER: O. PONGPUN  
 DESIGNER: E. MAGUINOJUNG  
 DRAFTER: E. MAGUINOJUNG

CADD PROJECT FILE NAME: WMD0000109

DATE	MK	DESCRIPTION

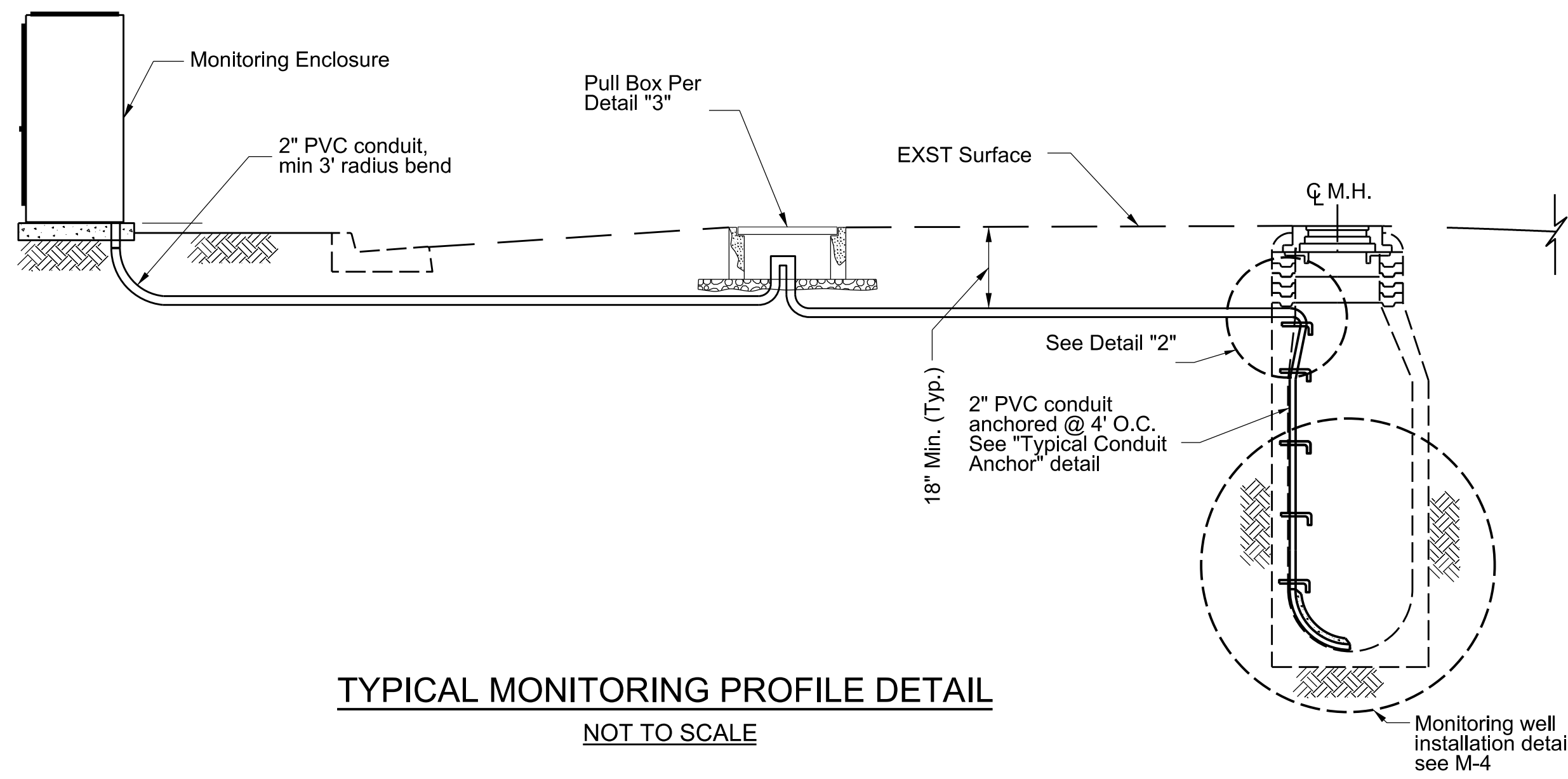
PROJECT ENGINEER: O. Pongpun  
 DATE: 4/5/19

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
 MONITORING CONDUIT PLAN

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M-2

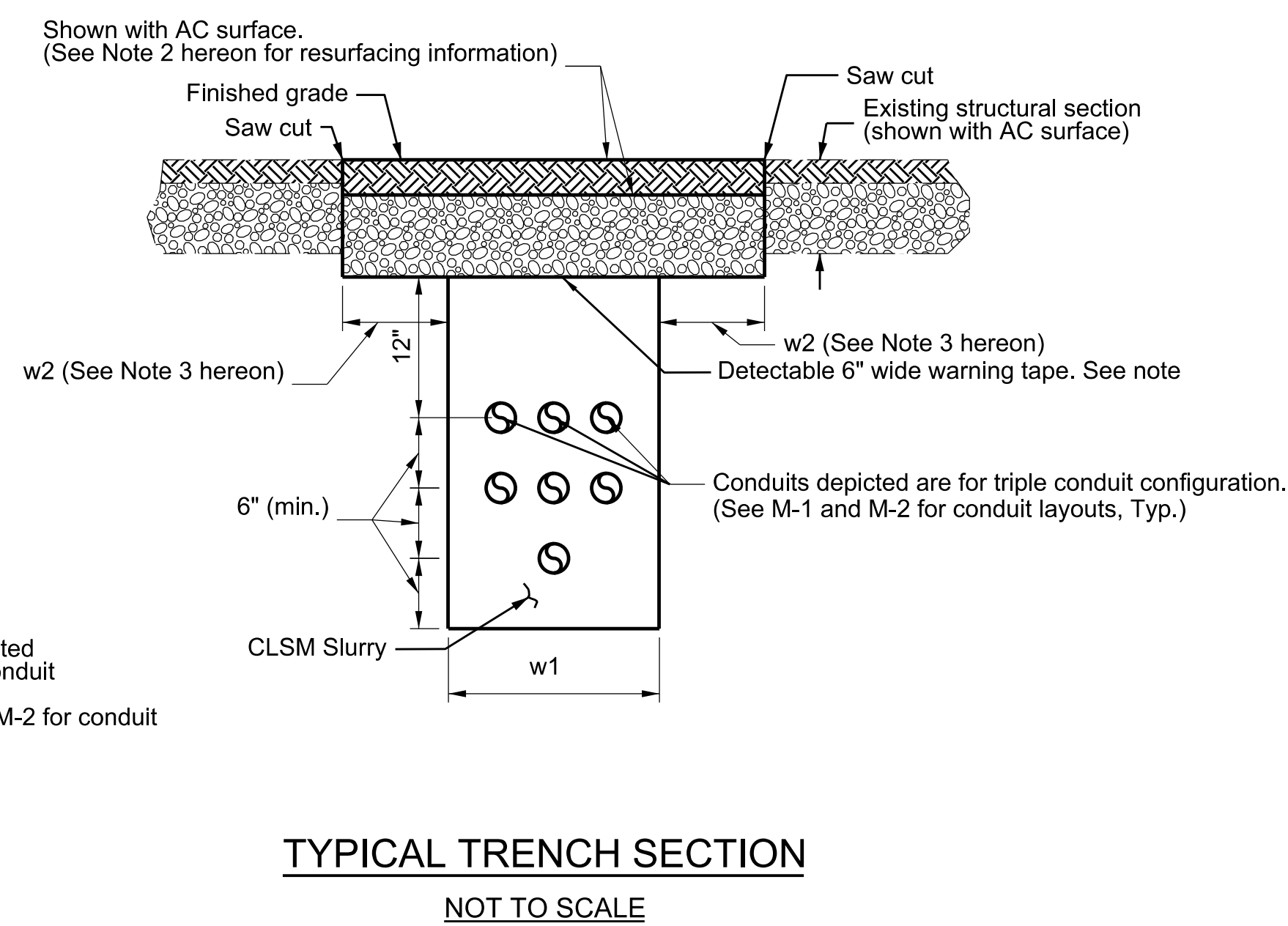
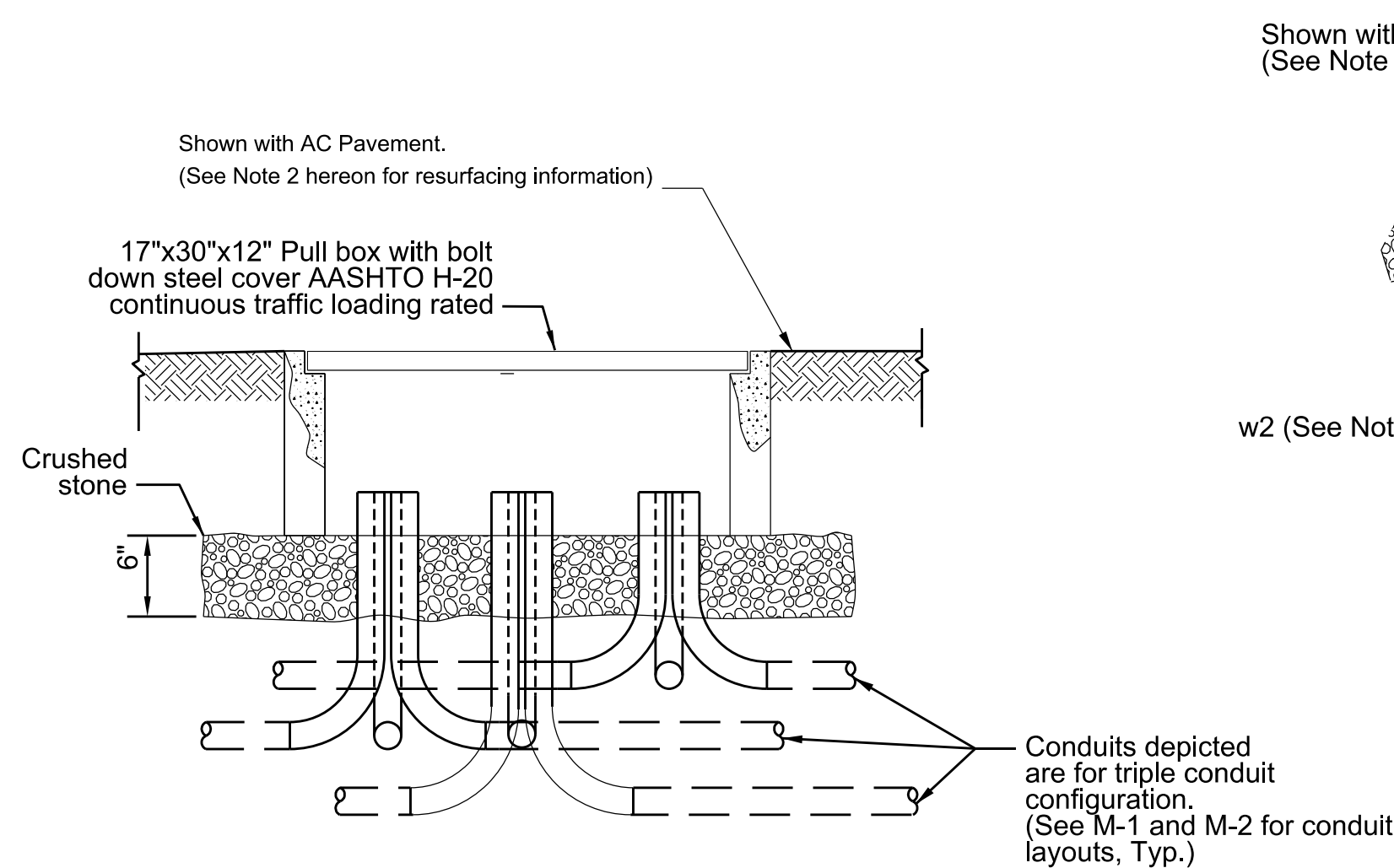
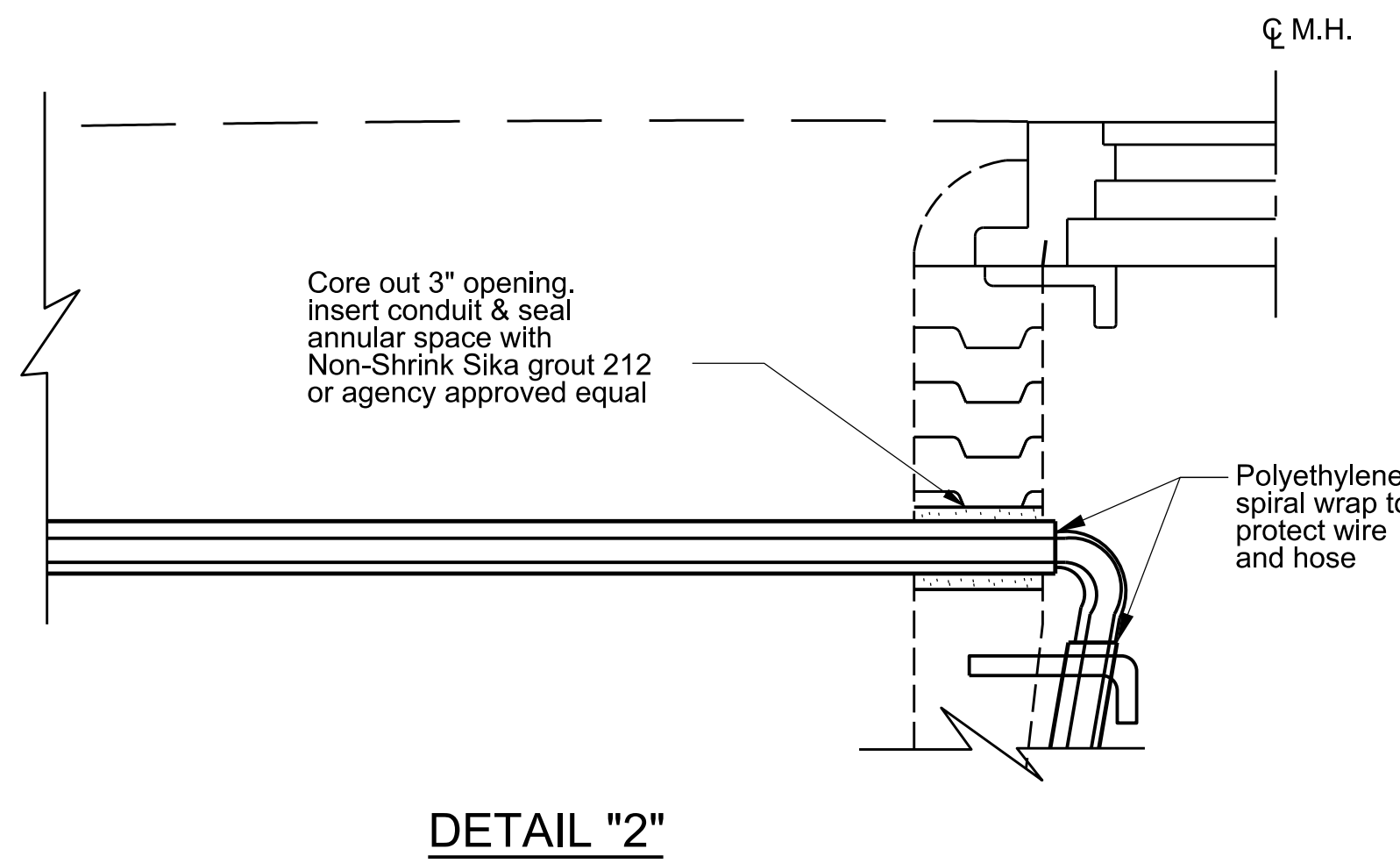
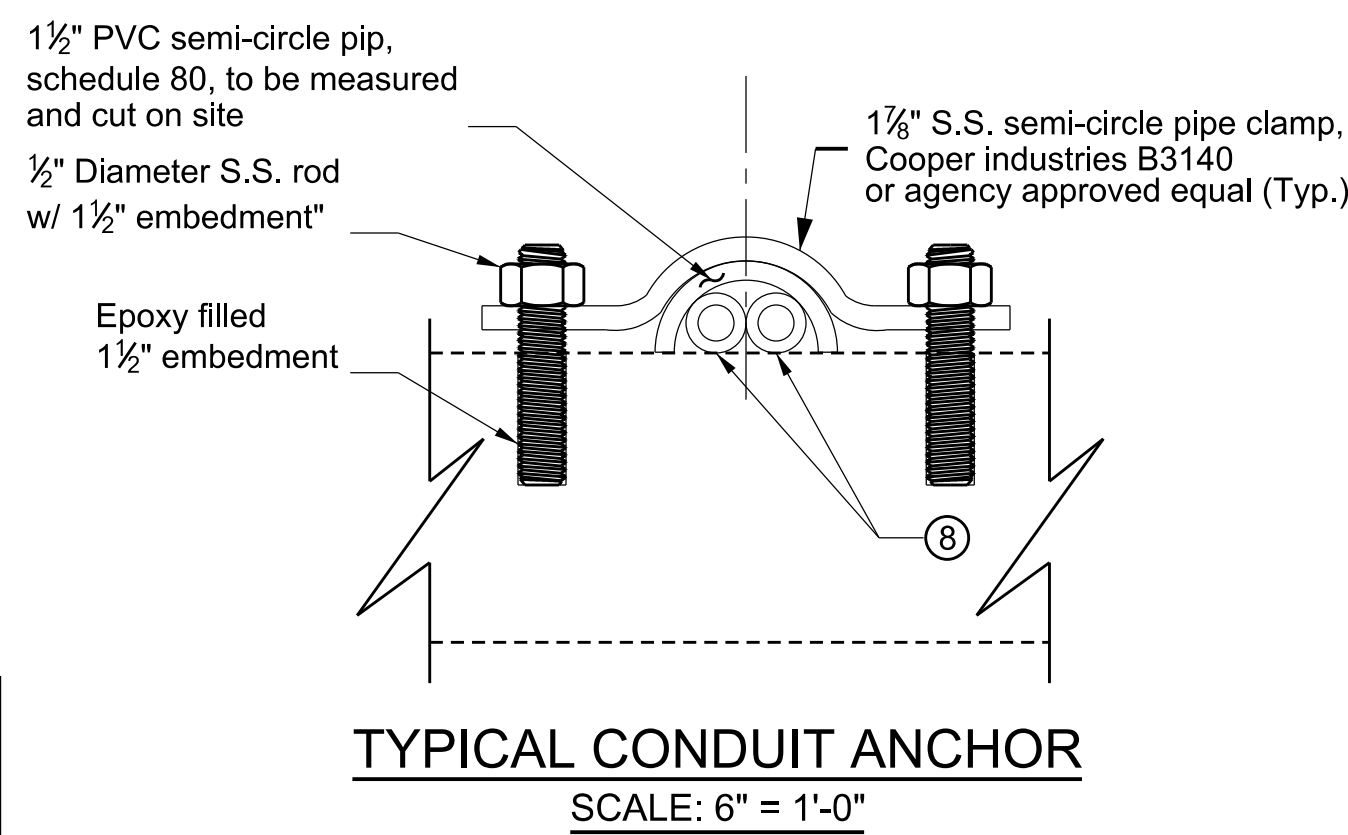
ADDENDUM NO. 1



Note 1:  
Mark the following warning on the 6" wide warning tape: "CAUTION BURIED ELECTRIC LINES BELOW"

Note 2:  
For trenches and pull boxes in roadway, replace AC thickness + 1" and CMB thickness + 1"  
For trenches and pull boxes in sidewalk, replace concrete existing thickness  
For trenches and pull boxes in park, replace with native fill

Note 3:  
w1 shall be 6" for trenches with one or two conduit.  
w1 shall be 12" for trenches with three or more conduits.  
w2 shall be 0" for all trenches in park or sidewalk.  
w2 shall be 6" for all trenches in the roadway.  
Conduits will be buried at equal depths for trenches with 1-3 conduits.  
Conduits will be placed in two rows for trenches with 4-6 conduits.  
Conduits will be placed in three rows (as shown above) for trenches with 7 conduits.



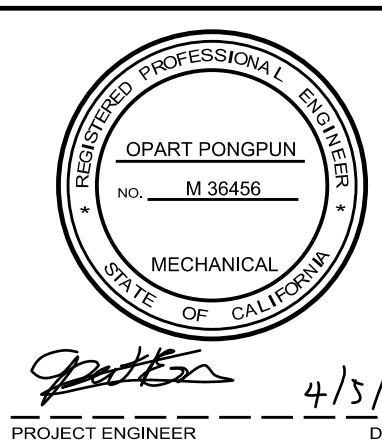
MONITORING WELL EQUIPMENT AND ACCESSORIES

Item no.	Description	Quantity	Remarks
①	ISCO 6712FR Refrigerated Sampler (120V, 60Hz)	6	Teledyne ISCO/MCRT (Model # 68-6710-072)
②	ISCO 750 Low Profile Area Velocity Flow Module (75FT) and Low Profile Velocity Sensor Measure 10 FT level range	3	Teledyne ISCO/MCRT (Model # 60-9004-051)
③	ISCO 4 Bottle Config Kit for 6712FR	6	Teledyne ISCO/MCRT (Model # 60-5304-606)
④	ISCO 6712ci Modem (cellular) - CDMA w/ antenna	3	Teledyne ISCO/MCRT (Model # 68-6710-148)
⑤	ISCO 674 Rain Gauge	1	Teledyne ISCO/MCRT (Model # 60-3284-001)
⑥	ISCO Sensor Mounting Plate	3	Teledyne ISCO/MCRT (Model # 60-3253-077)
⑦	ISCO Stainless Steel Strainer (3/8")	6	Teledyne ISCO/MCRT (Model # 69-2903-138)
⑧	ISCO 3/8 inch vinyl suction line - 200 feet per site, SPA 491.	3	Teledyne ISCO/MCRT (Model # 60-5304-491)
⑨	ISCO Tubing Coupler, 3/8 inch. One-piece, clampless coupler made of stainless steel	8	Teledyne ISCO/MCRT (Model # 60-3709-002)
⑩	ISCO SPA 1026-12 foot length (cut to length cable; base price + 1.19 per foot)	3	Teledyne ISCO/MCRT (Model # 60-5314-026)
⑪	UPS (Backup Battery Supply)	3	TBD
⑫	CS451 Stainless-Steel SDI-12/RS-232 Pressure Transducer [Range - 0 to 2.0 m (6.7 ft)] w/ SDI12 Cable (120 ft cable)	1	Campbell Scientific (Model # CS451-120-HA-2-SN) Holmes Ave. and 71st St.
⑬	CS451 Stainless-Steel SDI-12/RS-232 Pressure Transducer [Range - 0 to 2.0 m (6.7 ft)] w/ SDI12 Cable (280 ft cable)	1	Campbell Scientific (Model # CS451-280-HA-2-SN) 76th Place and Whitsett Ave.
⑭	CS451 Stainless-Steel SDI-12/RS-232 Pressure Transducer [Range - 0 to 2.0 m (6.7 ft)] w/ SDI12 Cable (140 ft cable)	1	Campbell Scientific (Model # CS451-140-HA-2-SN) Whitsett Ave and Nadeau St.
⑮	CR310 Data Logger w/WiFi	3	Campbell Scientific (Model # CR310-WiFi)
⑯	RV50 Cell Modem - add Enc Mount	3	Campbell Scientific (Model # RV50-NA)
⑰	2 dBd 4G/3G Multiband Omnidirectional Antenna with Mounting Hardware	3	Campbell Scientific (Model # 32262)
⑱	Surge Protection Kit, Type N to SMA, 700 to 2700 MHz	3	Campbell Scientific (Model # 31317)
⑲	RG8 Antenna Cable with 2 Type N Male Connectors	3	Campbell Scientific (Model # COAXNTN-L12)
⑳	Vac-to-Vdc transformer (29796)	3	Campbell Scientific (Model # 29796)
㉑	14 x 16 Enclosures for battery & data logger	3	Campbell Scientific (Model # ENC14/16-SC-MM)
㉒	12VDC Sealed Lead Acid Battery w/mount	3	Campbell Scientific (Model # BP12)
MISCELLANEOUS/GENERAL ITEMS			
㉓	ISCO 2.5-gallon glass around bottle with cap	12	Teledyne ISCO/MCRT (Model # 68-6700-005)
㉔	ISCO SDI12 cable	1	Teledyne ISCO/MCRT (Model # 60-9004-341)
㉕	ISCO USB Communication Cable	2	Teledyne ISCO/MCRT (Model # 60-2004-508)
㉖	ISCO Sequential sampling bottle (includes 24 glass 350-mL bottles)	12	Teledyne ISCO/MCRT (Model # 68-6700-033)
㉗	Adjustable Angle Mounting Kit, Extended Length	1	Campbell Scientific (Model # CM230XL)
㉘	A200 Sensor to PC Interface	1	Campbell Scientific (Model # TBD)
㉙	LOGGERNET Datalogger Support Software	2	Campbell Scientific (Model # LoggerNet)
㉚	Shipping & Insurance Estimate (UPS Ground)	1	Campbell Scientific (Model # NA)
㉛	Shipping & Insurance Estimate (UPS Ground)	1	Campbell Scientific (Model # NA)
CONSUMABLE/REPLACEMENT ITEMS			
㉜	1-lb Refill Bottle of Desiccant	3	Teledyne ISCO/MCRT (Model # 60-2004-233)
㉝	ISCO 3/8 inch vinyl suction line - 200 feet, SPA 491.	3	Teledyne ISCO/MCRT (Model # 60-5304-491)
㉞	ISCO Pump Tubing for 6700 series sampler (25 tubes)	3	Teledyne ISCO/MCRT (Model # 68-6700-045)
㉟	12VDC Sealed Lead Acid Battery no mount (Replacement)	3	Campbell Scientific (Model # 8062)
COMMUNICATION SERVICES			
㊱	Wireless Service Account (Verzion) (per month)	6	ITD
㊲	Static IP Address (Verzion) (one-time fee)	6	ITD

\* Equipment not shown on mechanical plans are shown on electrical plans

REVIEWER: O. PONGPUN  
 CHECKER: O. PONGPUN  
 DESIGNER: E. MAGUINOJUNG  
 DRAFTER: E. MAGUINOJUNG  
 CADD PROJECT FILE NAME: WMD0000109

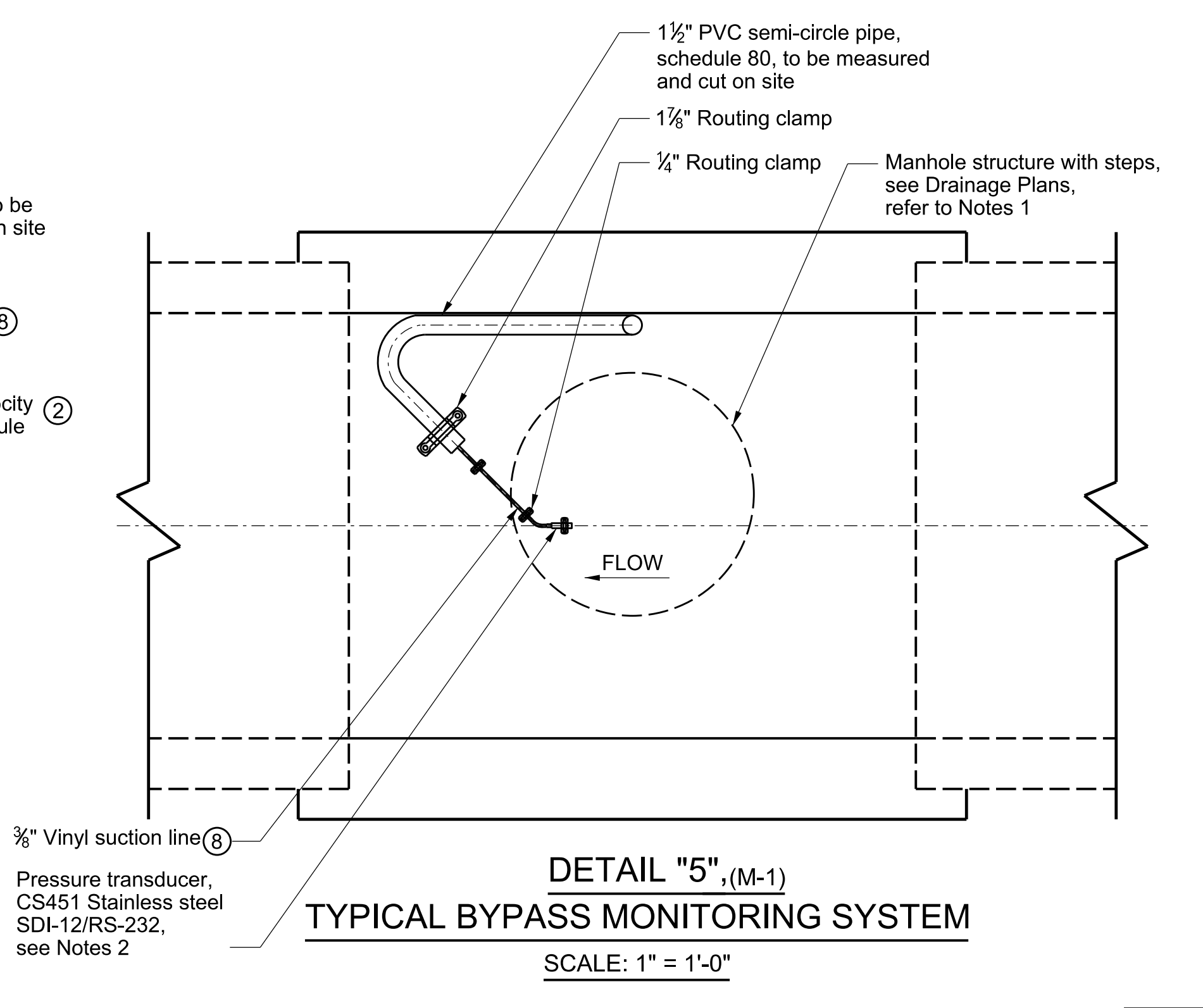
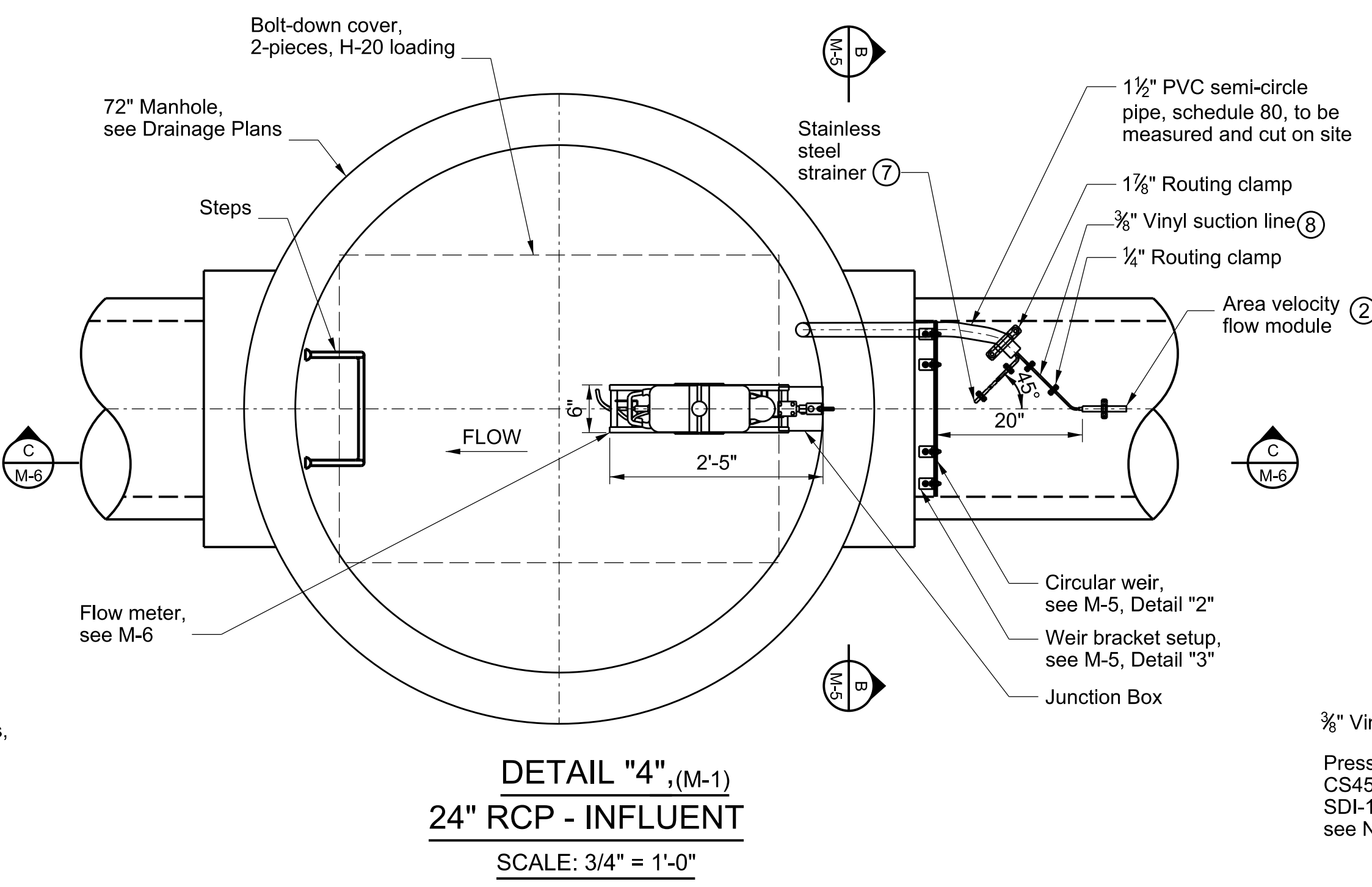
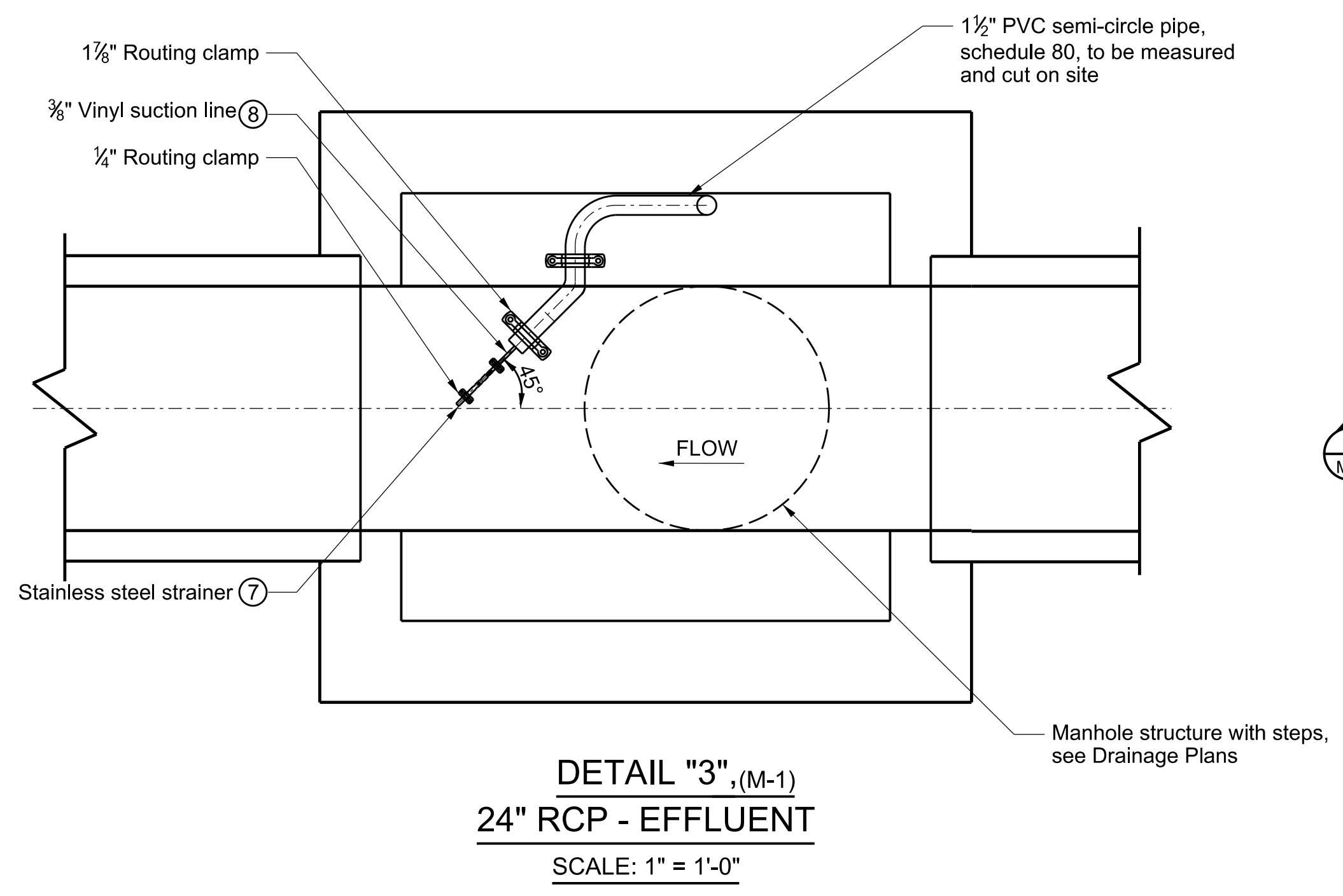
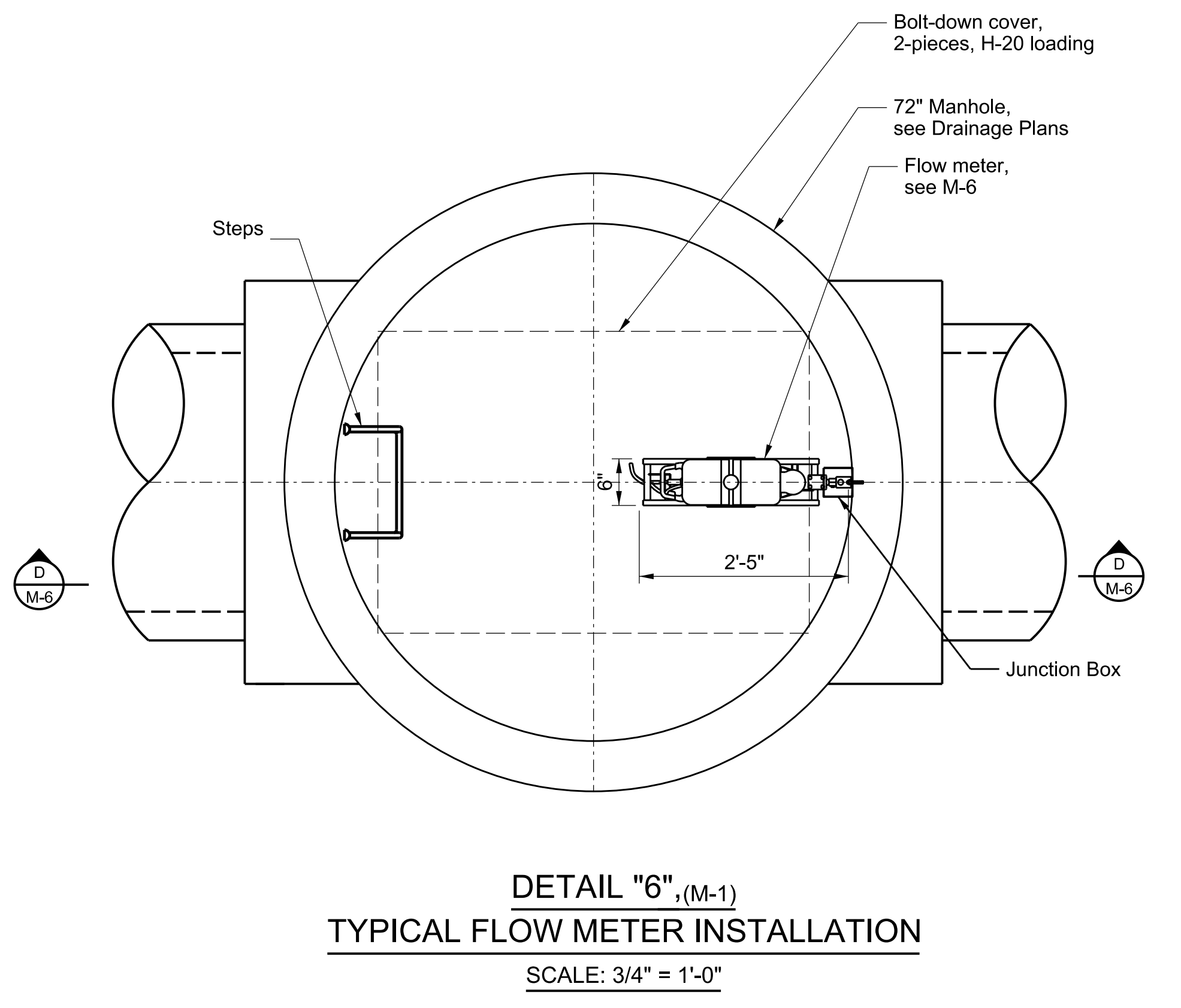
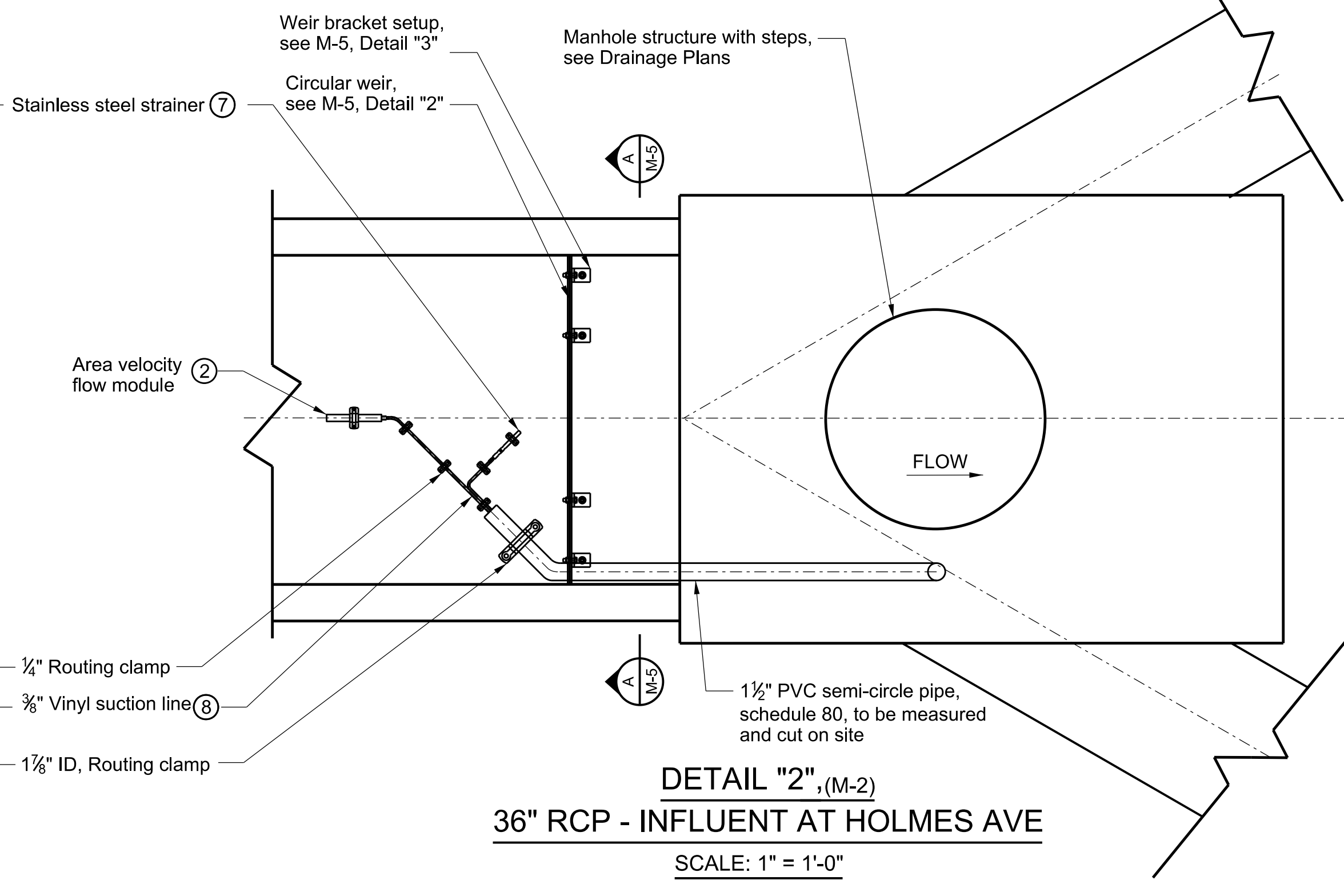
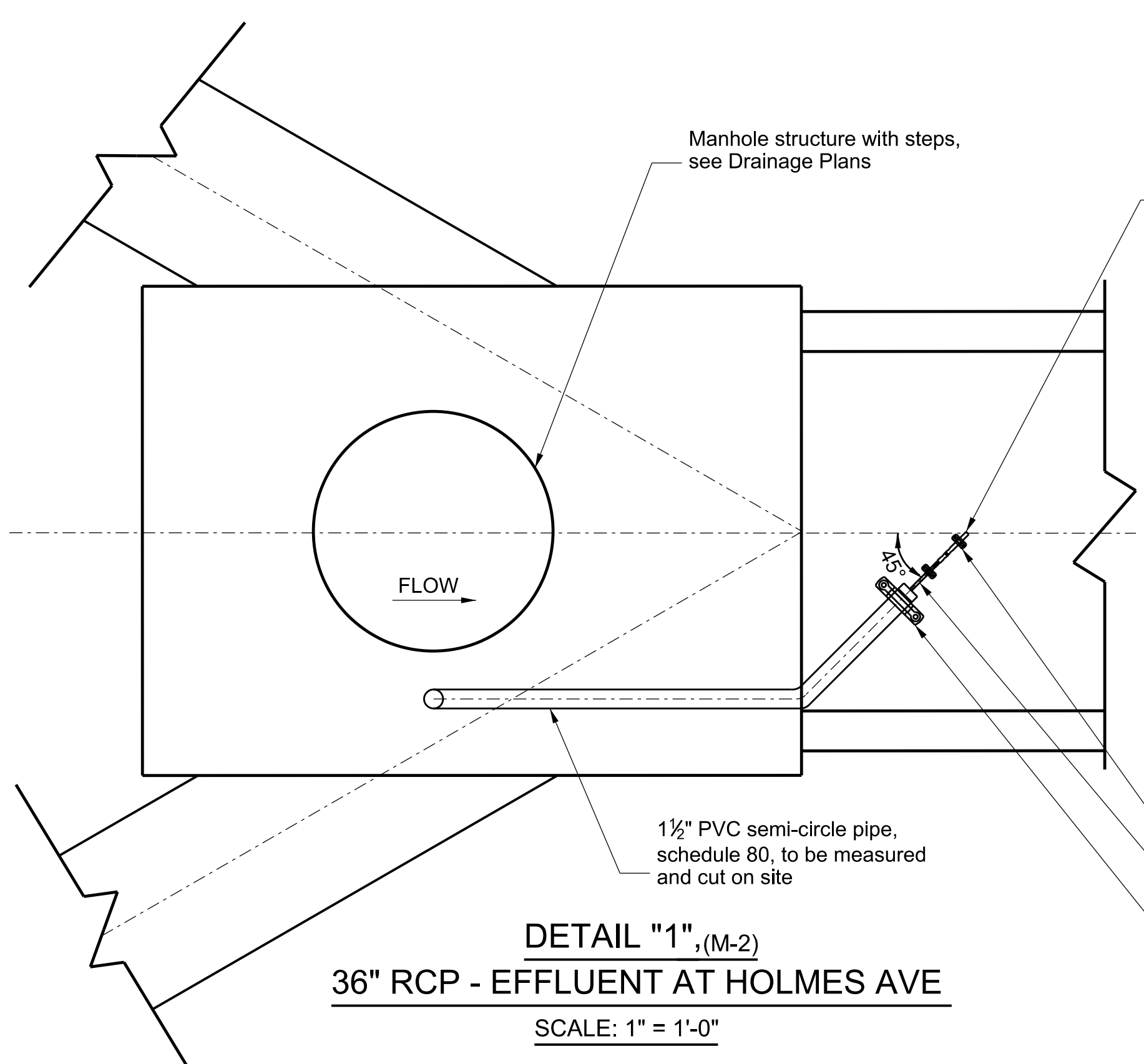
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COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
 CONDUIT AND TRENCHING DETAILS

DATE: 4/5/19  
 PROJECT ENGINEER: [Signature]  
 WMD0000109 PCA F21812149 SHEET 43 OF 63

M-3



- Notes:**
- Bypass monitoring system:  
 Holmes Ave. and 71st St. - see Drainage plans  
 Whitsett Ave. and 76th Pl. - see Drainage plans  
 Whitsett Ave. and Nadeau St. - see Drainage plans
  - Pressure transducer:  
 Holmes Ave. and 71st St. - see M-3, Monitoring Well Equipment and Accessories Table, Item no. 12  
 Whitsett Ave. and 76th Pl. - see M-3, Monitoring Well Equipment and Accessories Table, Item no. 13  
 Whitsett Ave. and Nadeau St. - see M-3, Monitoring Well Equipment and Accessories Table, Item no. 14

REVIEWER  
O. PONGPUN

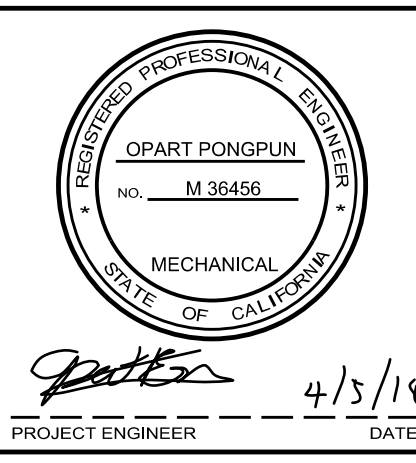
CADD PROJECT FILE NAME  
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CHECKER  
O. PONGPUN

DESIGNER  
J. UNG

DRAFTER  
J. UNG

DATE	MK	DESCRIPTION
REVISIONS		



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**

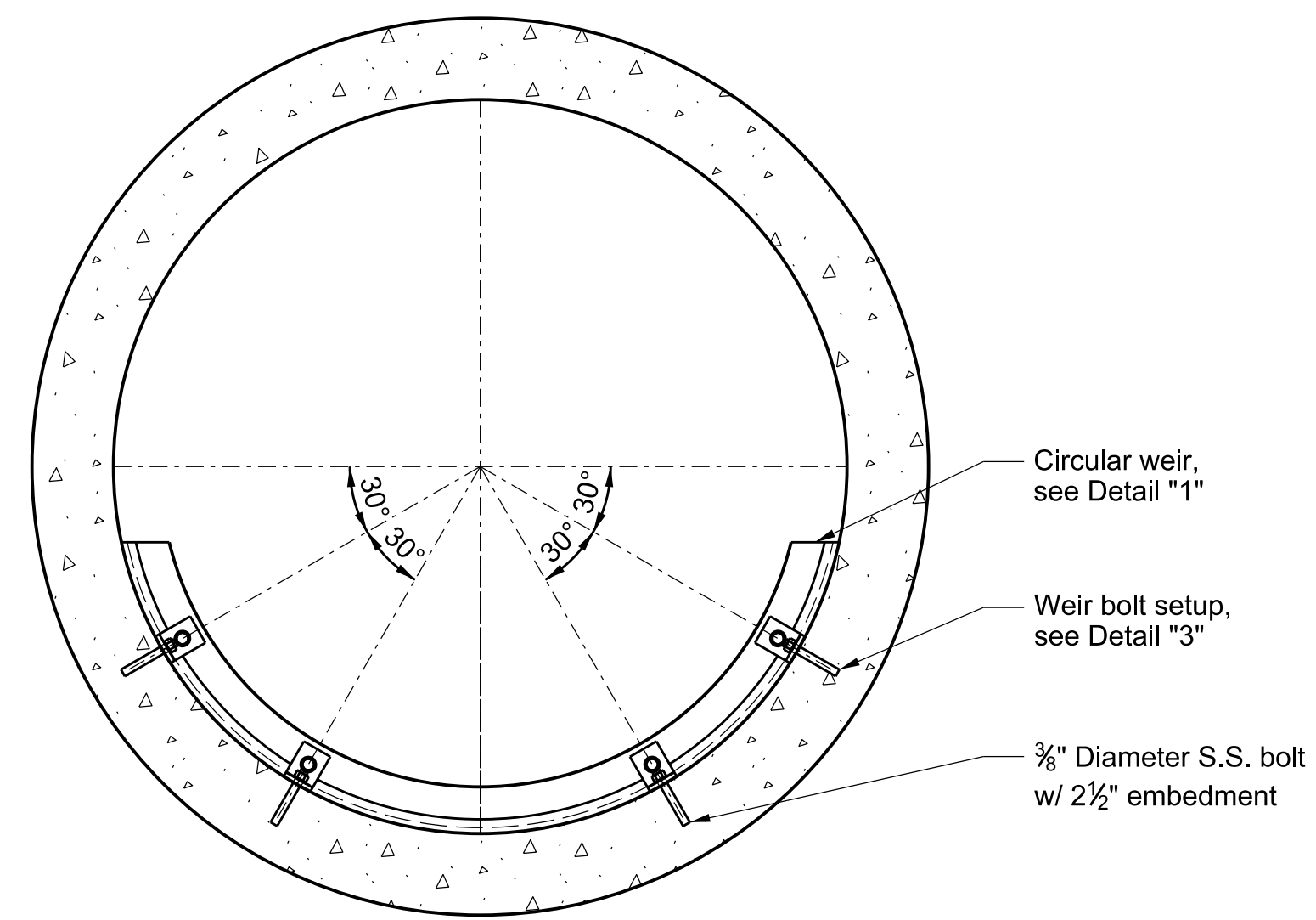
MONITORING WELL INSTRUMENTATION DETAILS

PROJECT ENGINEER: Opart Pongpun  
DATE: 4/5/19

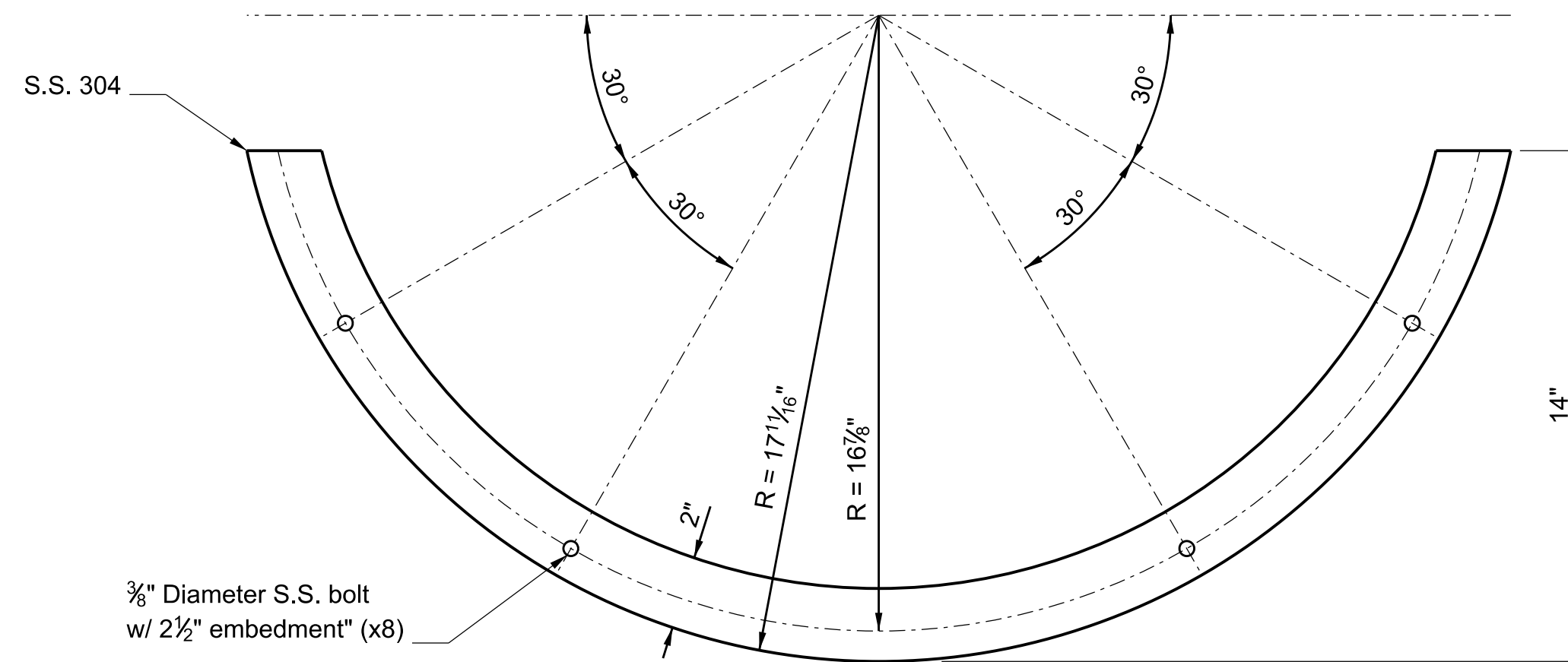
WMD0000109 PCA F21812149 SHEET 44 OF 63

M-4

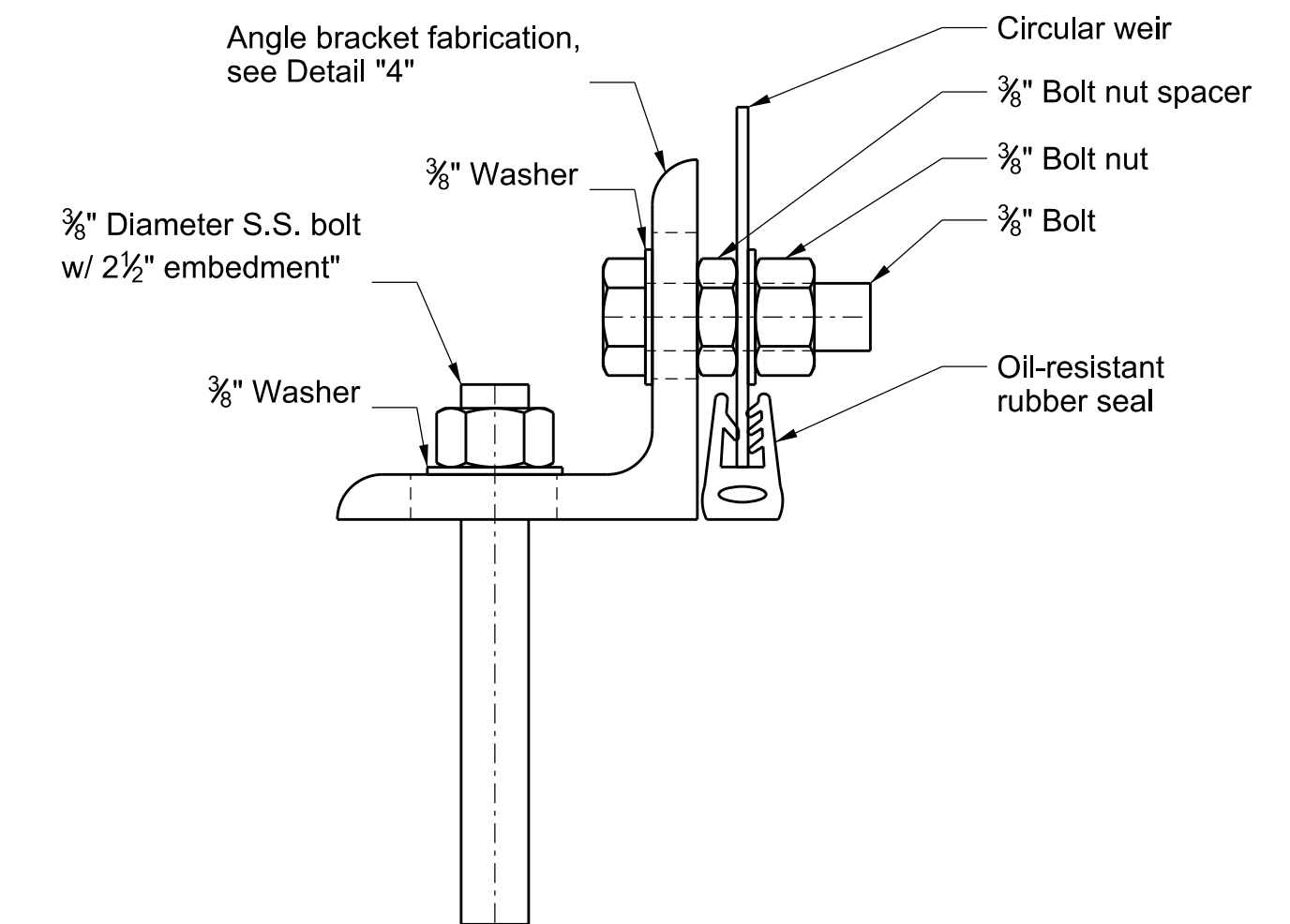
ADDENDUM NO. 1



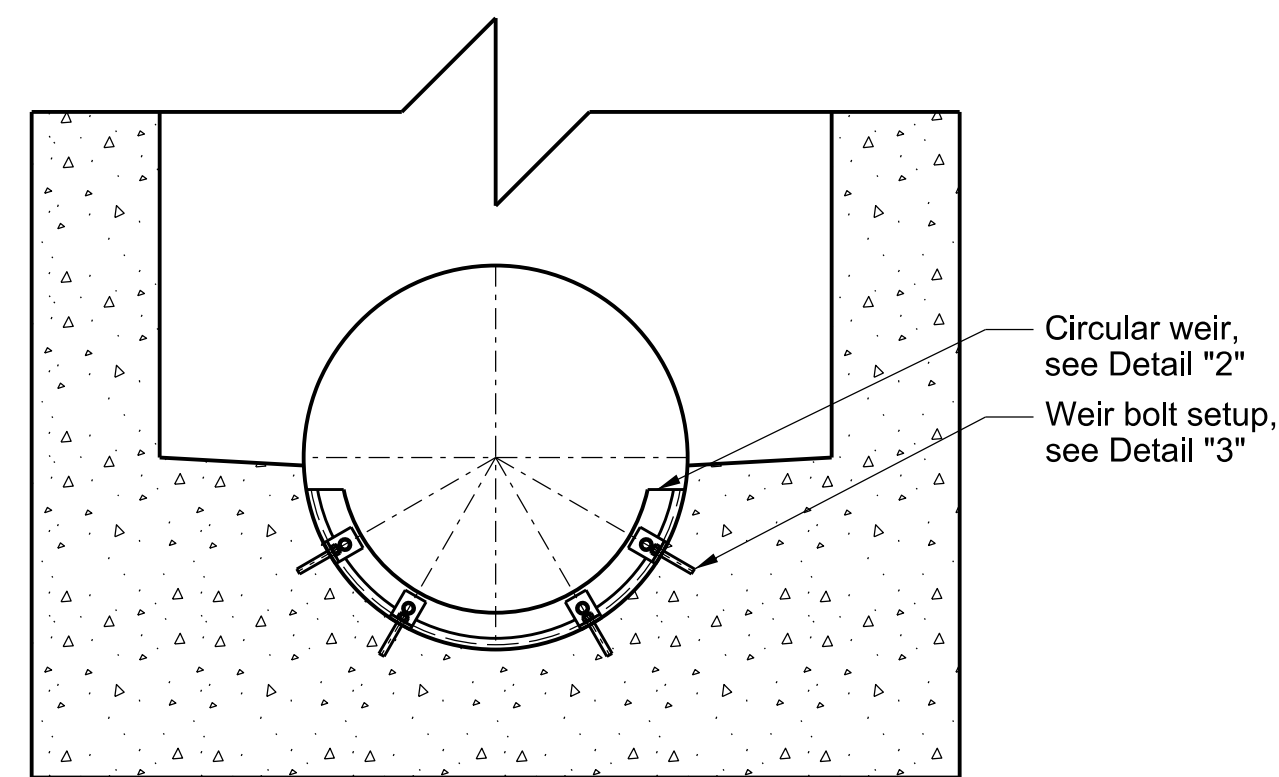
36" RCP - SECTION A-A, (M-4)  
SCALE: 1 1/2" = 1'-0"



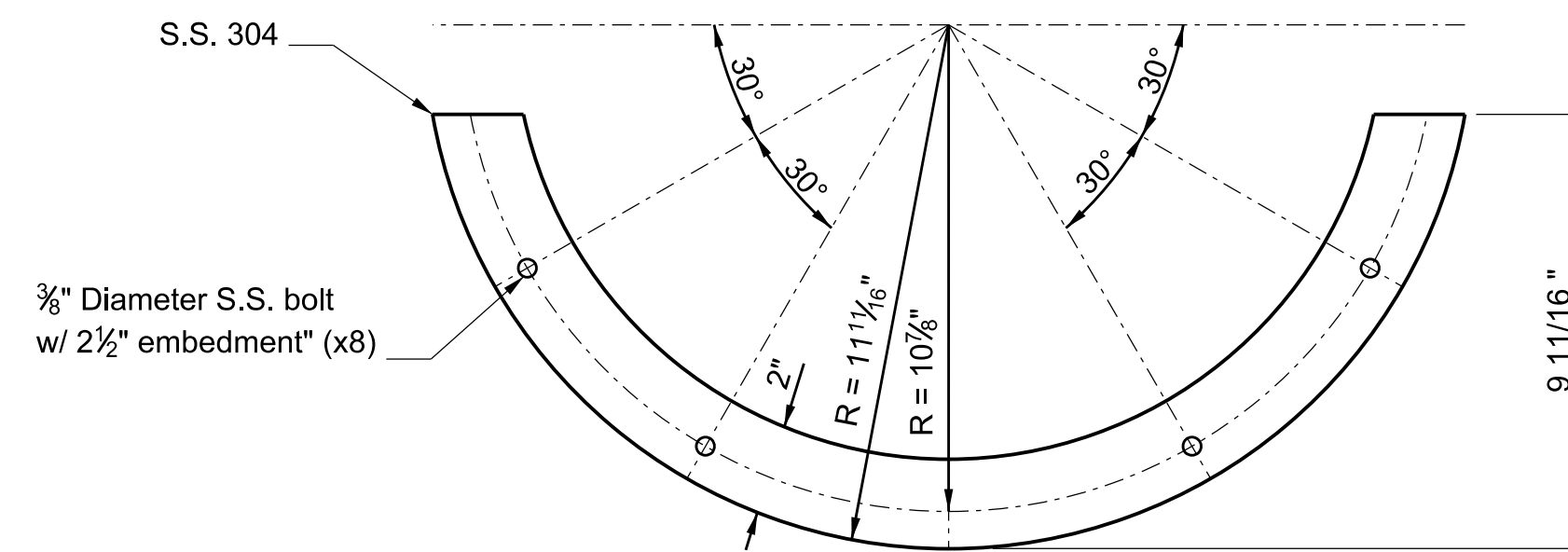
DETAIL "1", (M-4)  
36" CIRCULAR WEIR - FABRICATION DETAIL  
SCALE: 3" = 1'-0"



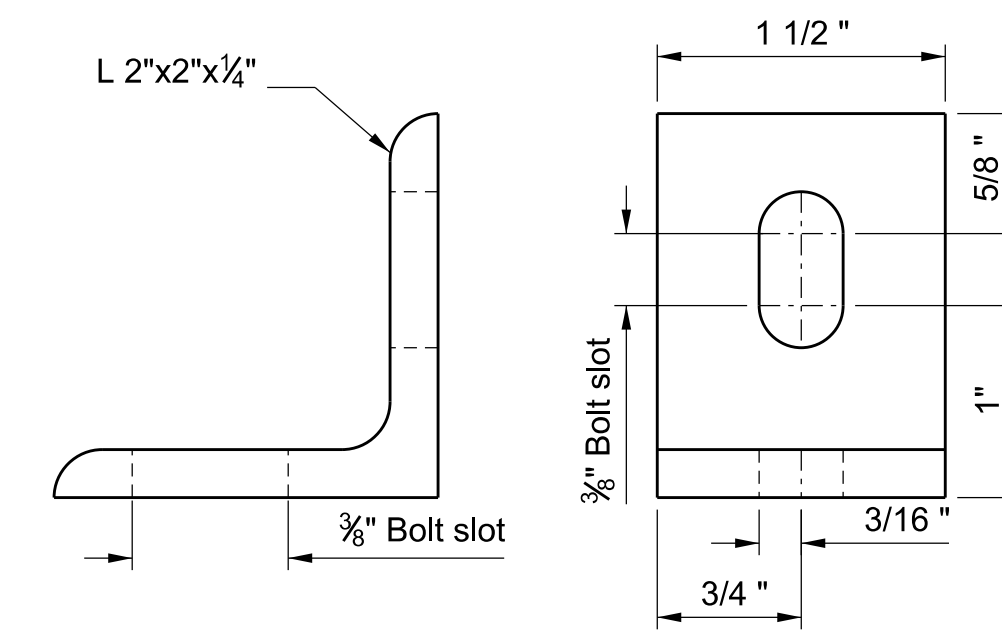
DETAIL "3", (M-4)  
WEIR BOLT SETUP  
SCALE: FULL SCALE 1=1



24" RCP - SECTION B-B, (M-4)  
SCALE: 1" = 1'-0"



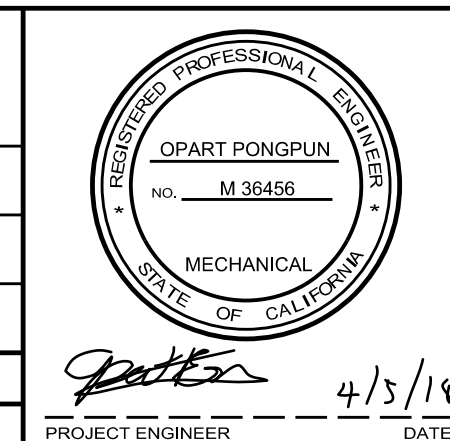
DETAIL "2", (M-4)  
24" CIRCULAR WEIR - FABRICATION DETAIL  
SCALE: 3" = 1'-0"



DETAIL "4"  
ANGLE BRACKET FABRICATION  
SCALE: FULL SCALE 1=1

REVIEWER  
O. PONGPUN  
CADD PROJECT FILE NAME  
WMD0000109  
CHECKER  
O. PONGPUN  
DESIGNER  
J. UNG  
DRAFTER  
J. UNG

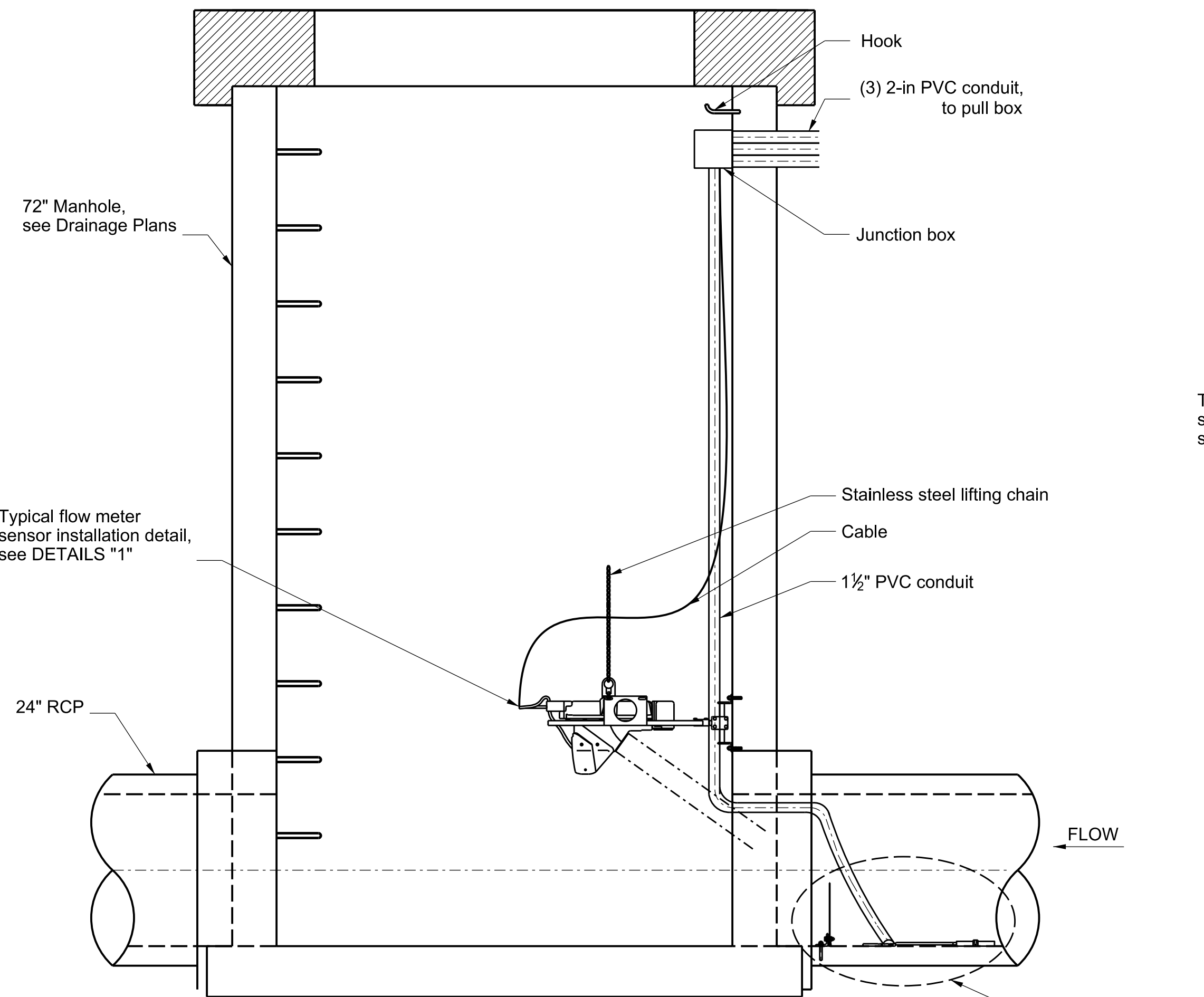
DATE	MK	DESCRIPTION
REVISIONS		



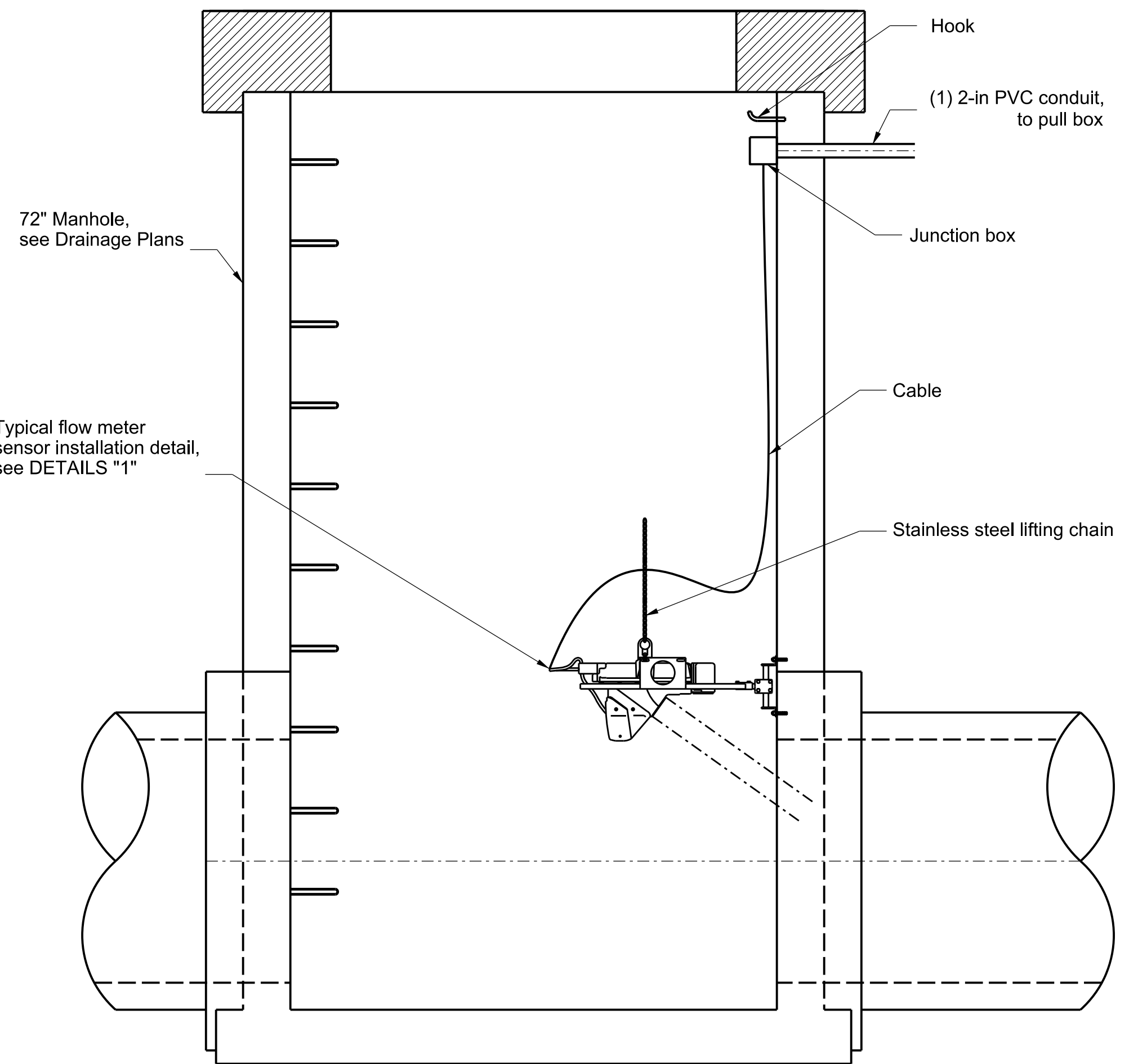
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
MONITORING WELL WEIR FABRICATION DETAILS

PROJECT ENGINEER: *[Signature]* DATE: 4/5/19  
WMD0000109 PCA F21812149 SHEET 45 OF 63

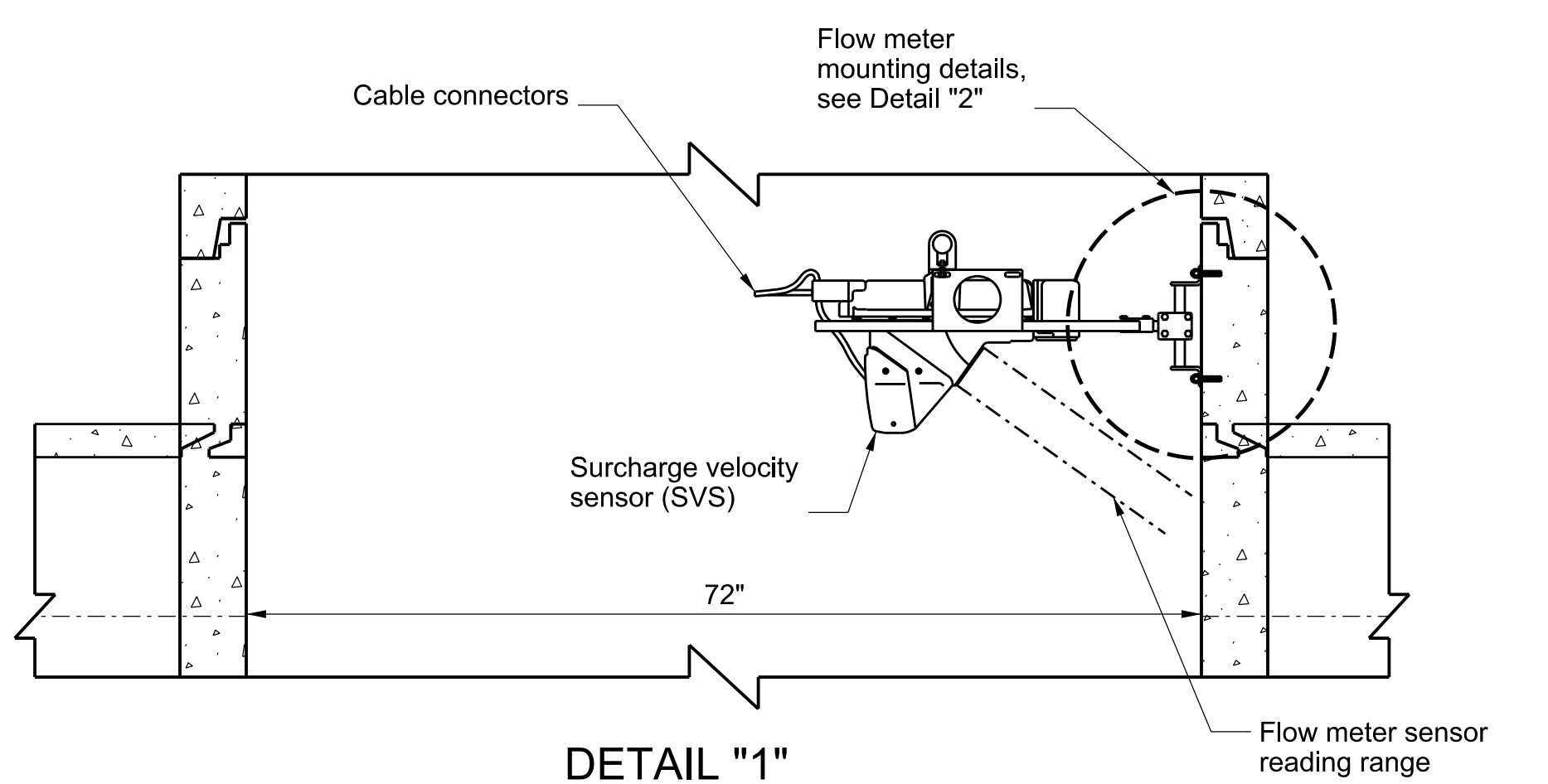
M-5



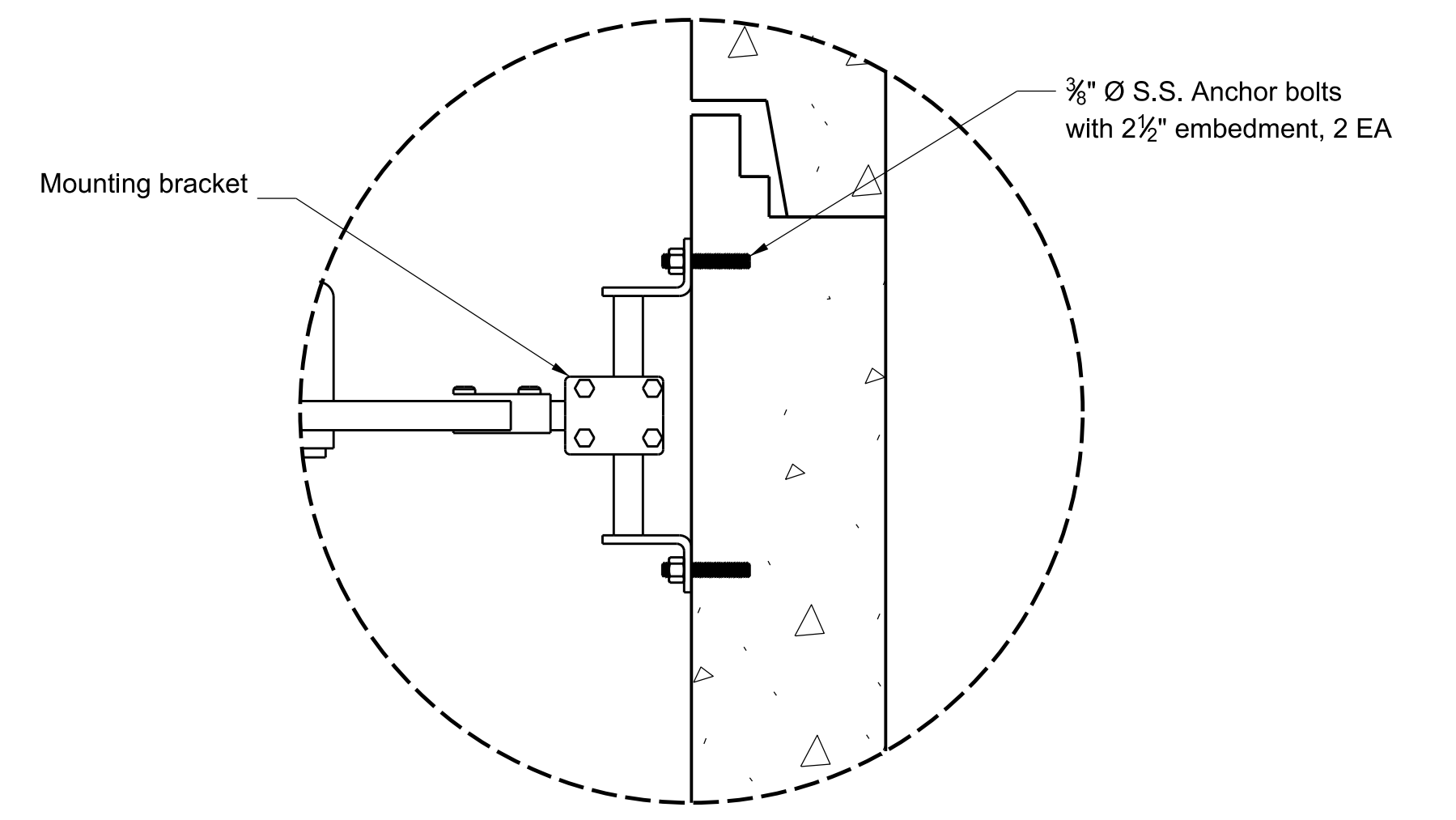
**SECTION C-C, (M-4)  
24" RCP - INFLUENT**  
SCALE: 3/4" = 1'-0"



**SECTION D-D, (M-4)  
TYPICAL FLOW METER INSTALLATION**  
SCALE: 3/4" = 1'-0"

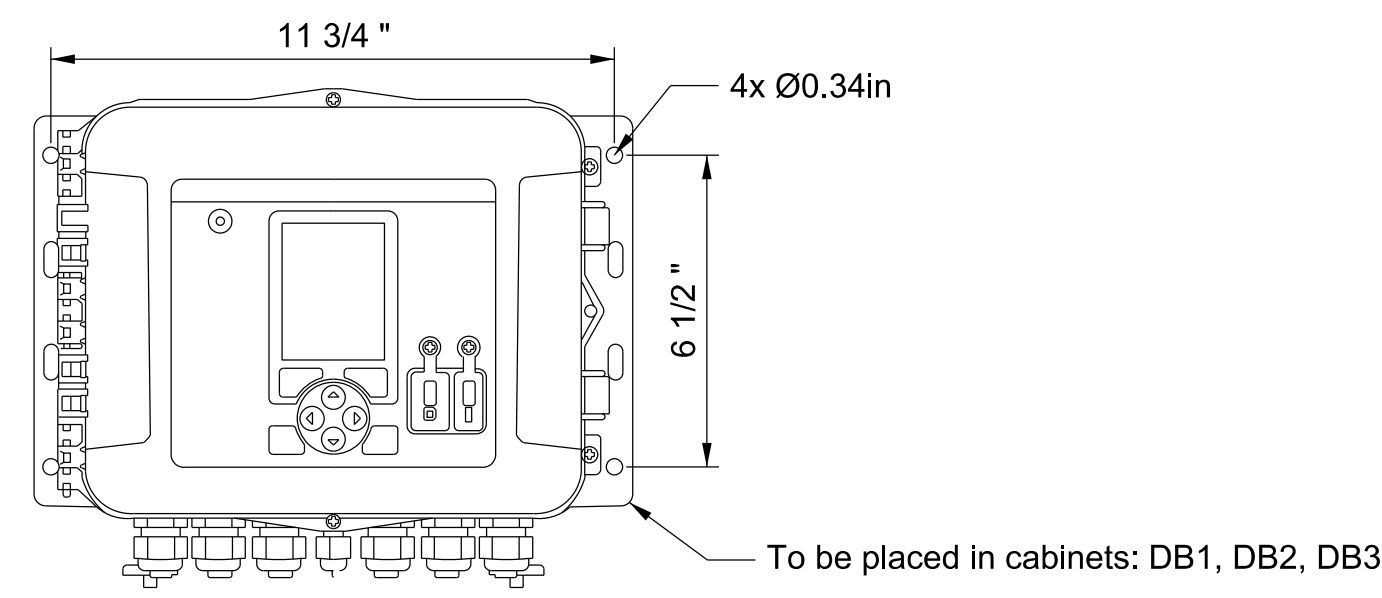


**DETAIL "1"  
TYPICAL FLOW METER  
SENSOR INSTALLATION DETAIL**  
SCALE: 1" = 1'-0"



**DETAIL "2"  
FLOW METER MOUNTING DETAIL**  
SCALE: 3" = 1'-0"

FLOW METER DETAILS		
Location	Invert El. (ft)	El. at TOS (ft)
36" RCP at Holmes Ave.	146.0	155.1
24" RCP at 76th and Whitsett	138.16	147.4
24" RCP at Nadeau and Whitsett	133.0	142.3



**TYPICAL DATA LOGGER FOR FLOW METER**  
SCALE: NOT TO SCALE

REVIEWER  
O. PONGPUN

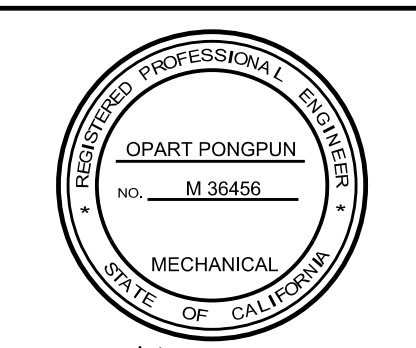
CADD PROJECT FILE NAME  
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J. UNG

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J. UNG

DATE	MK	DESCRIPTION
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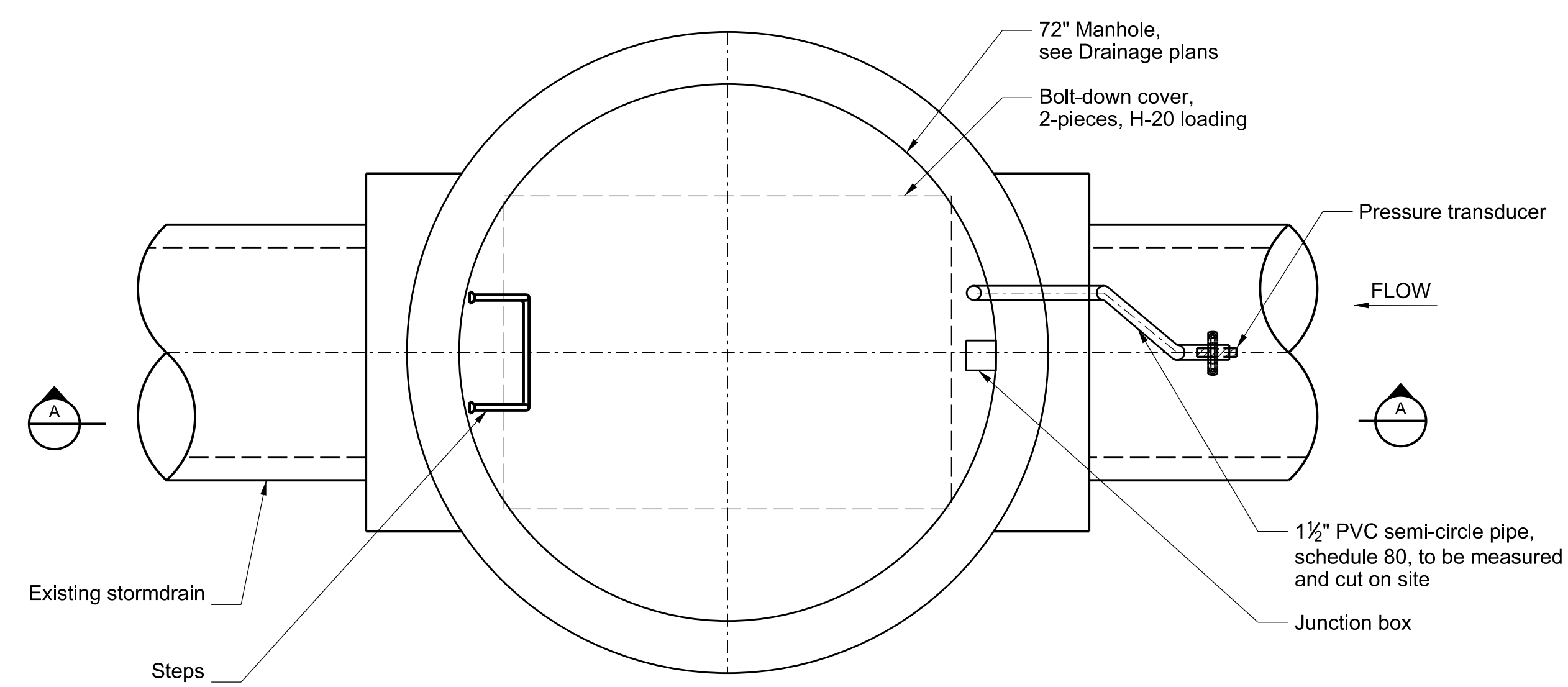
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**

FLOW METER DETAILS

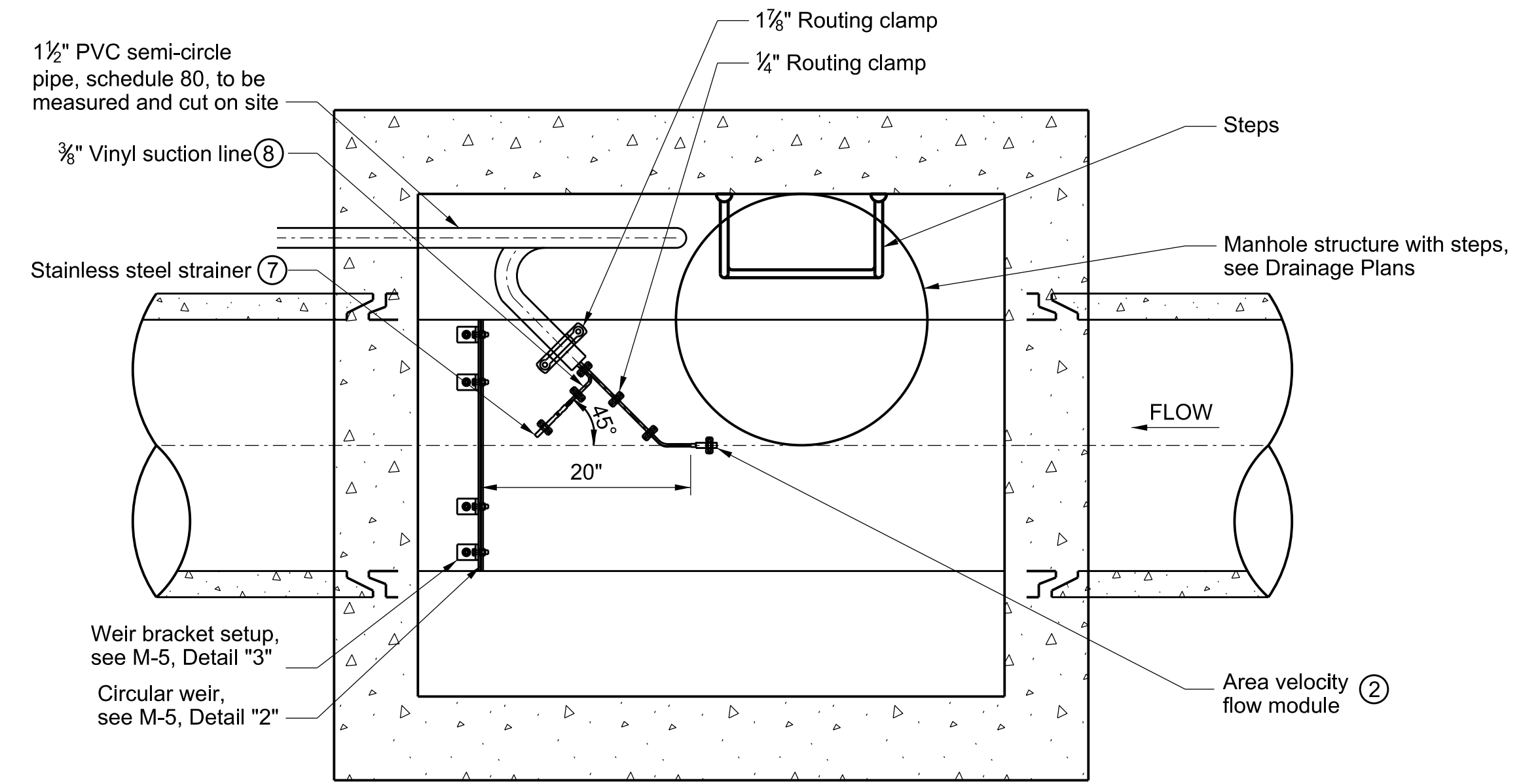
PROJECT ENGINEER: *[Signature]* DATE: 4/5/13

WMD0000109 PCA F21812149 SHEET 46 OF 63



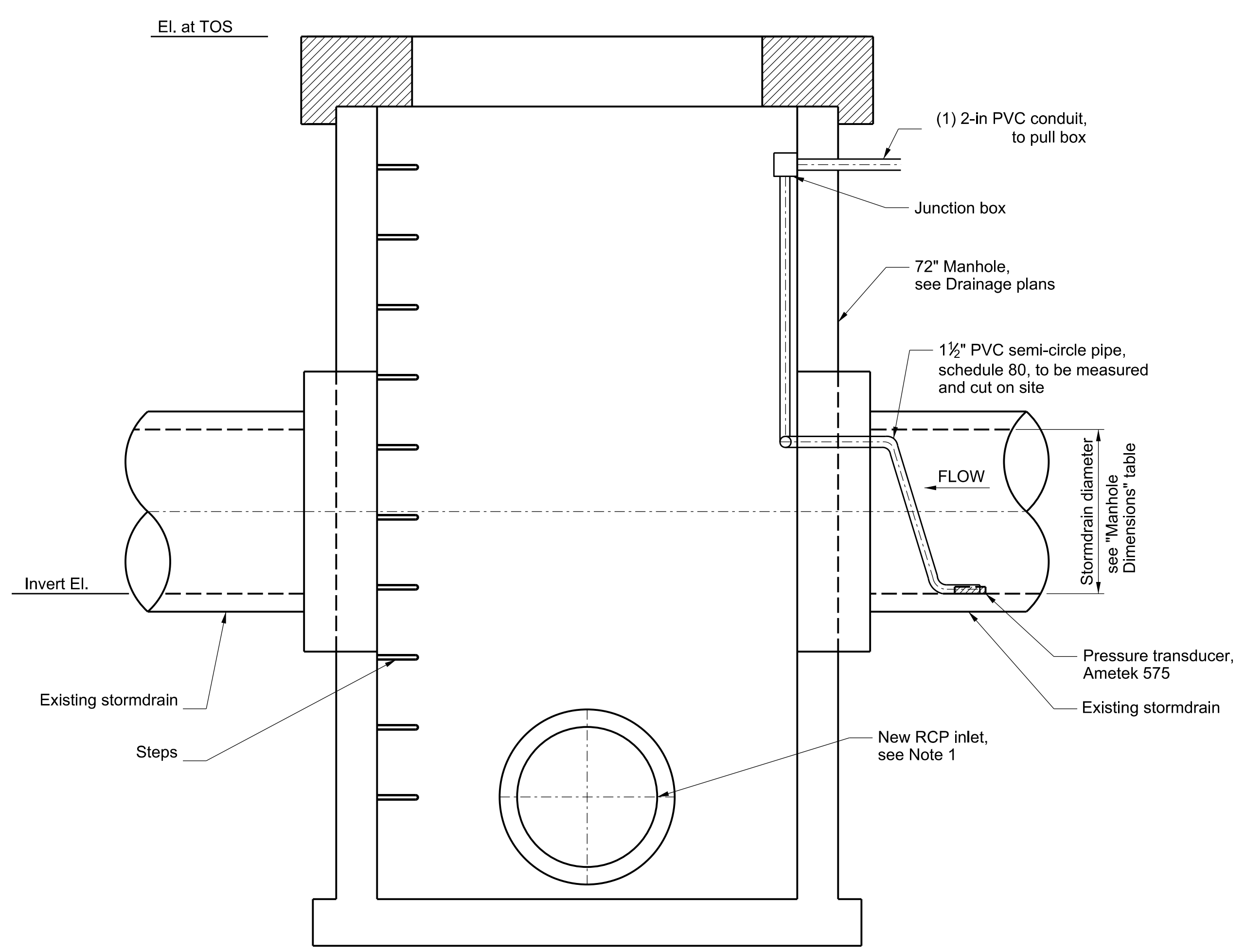
**TYPICAL DIVERSION MANHOLE PRESSURE TRANSDUCER**

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



**DETAIL "1", (M-1)  
24" RCP - INFLUENT**

SCALE: 1" = 1'-0"



**SECTION A-A**

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

DIVERSION MANHOLE DIMENSIONS			
Location	Existing Storm Drain Diameter, d	Invert El.	El. at TOS
Holmes and 71st	48"	146.47	155.1
76th and Whitsett	27"	139.48	147.3
Nadeau and Whitsett	42"	133.31	142.1

- Notes:
1. New RCP inlet:  
Holmes Ave. - 36" RCP  
Whitsett Ave. and 76th Pl. - 24" RCP  
Whitsett Ave. and Nadeau St. - 24" RCP

REVIEWER  
O. PONGPUN

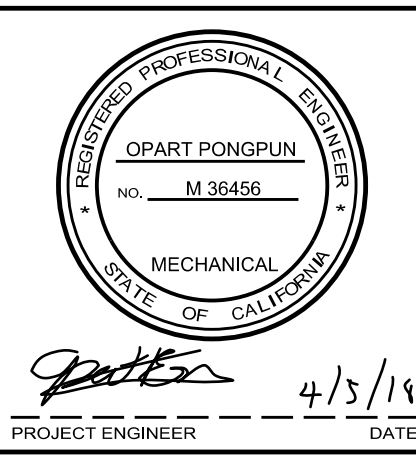
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DATE	MK	DESCRIPTION
REVISIONS		



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE  
PROJECT**

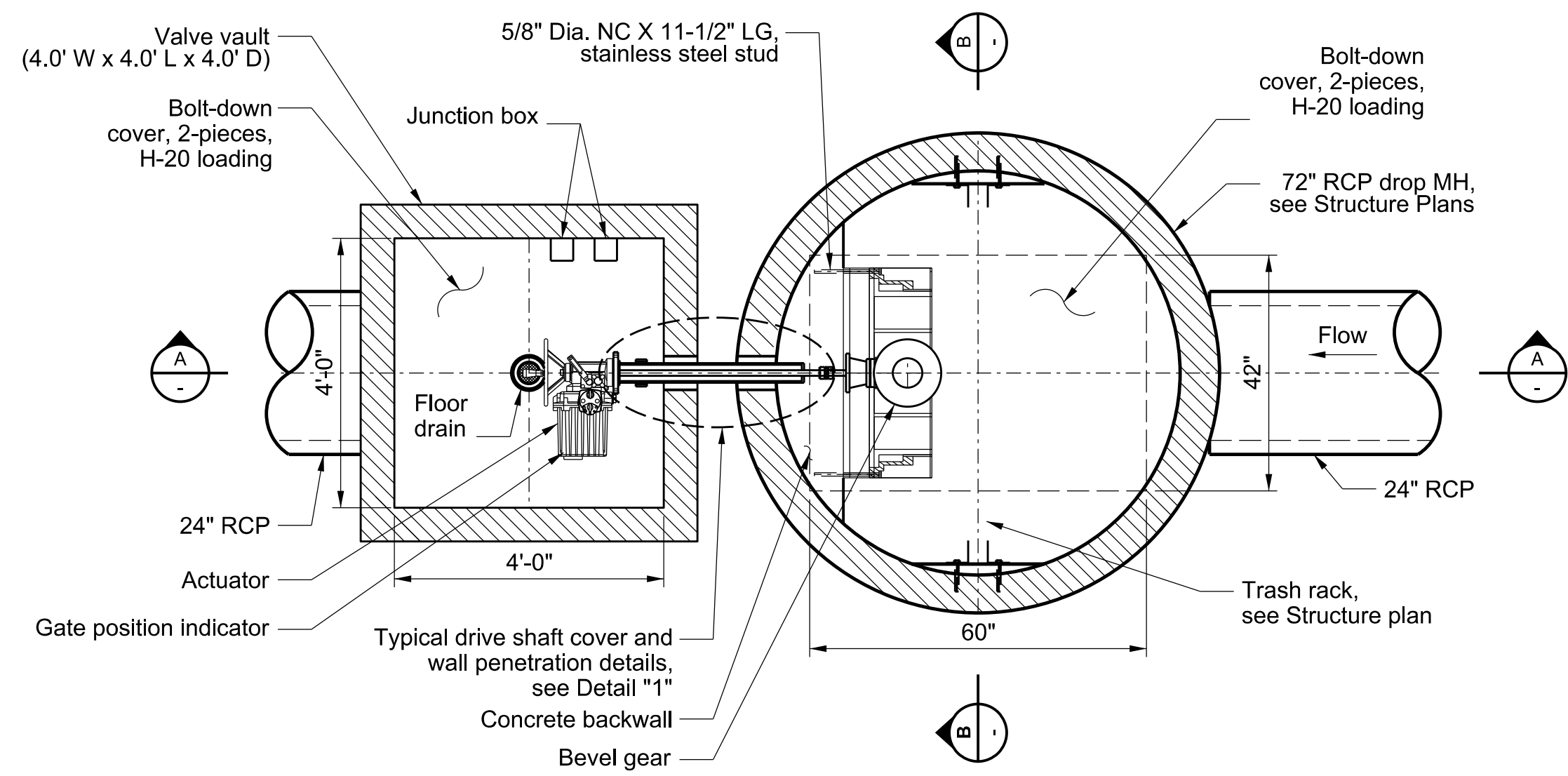
DIVERSION MANHOLE PRESSURE TRANSDUCER DETAILS

PROJECT ENGINEER: Opart Pongpun  
DATE: 4/5/13

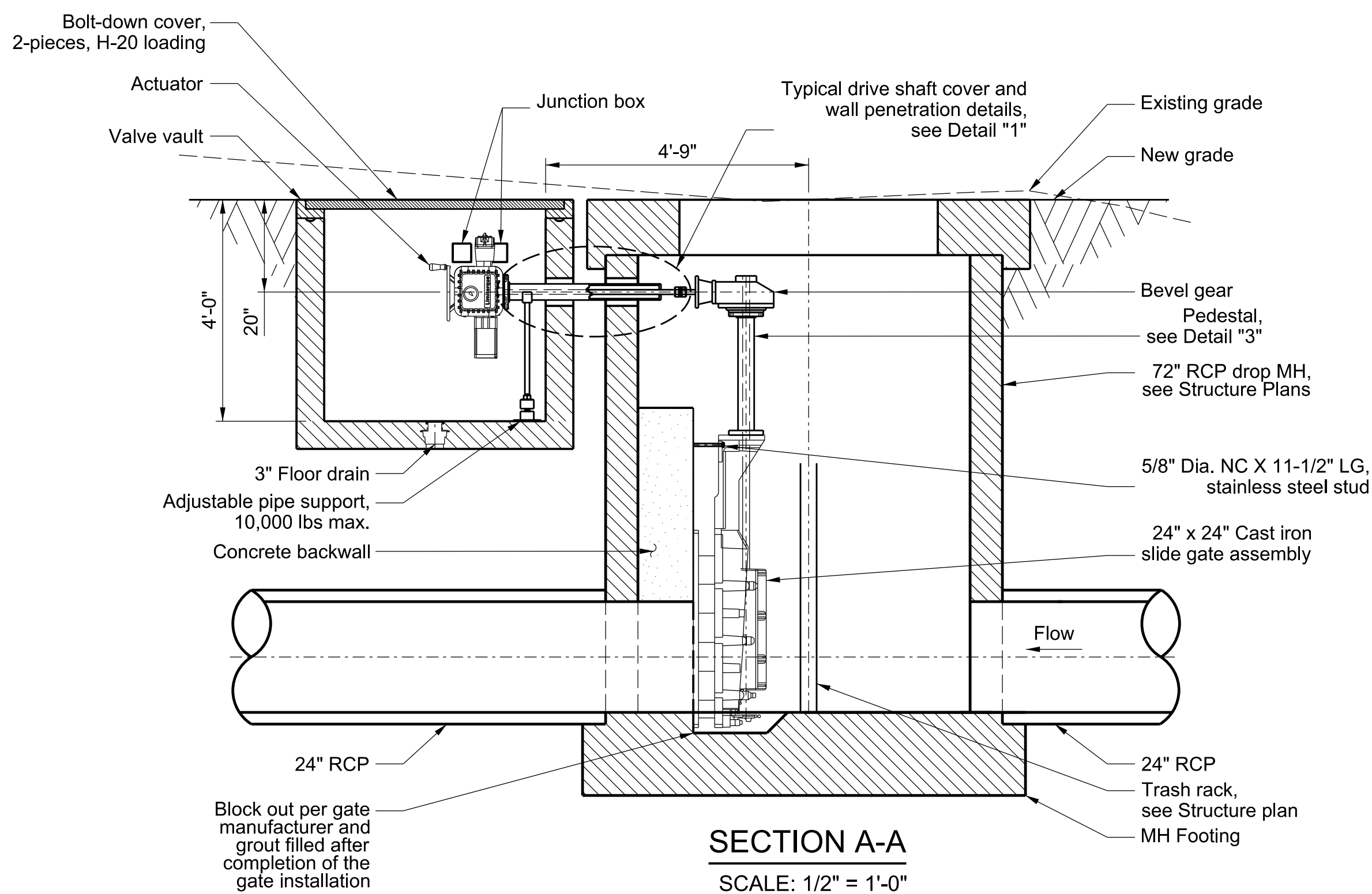
WMD0000109 PCA F21812149 SHEET 47 OF 63

M-7

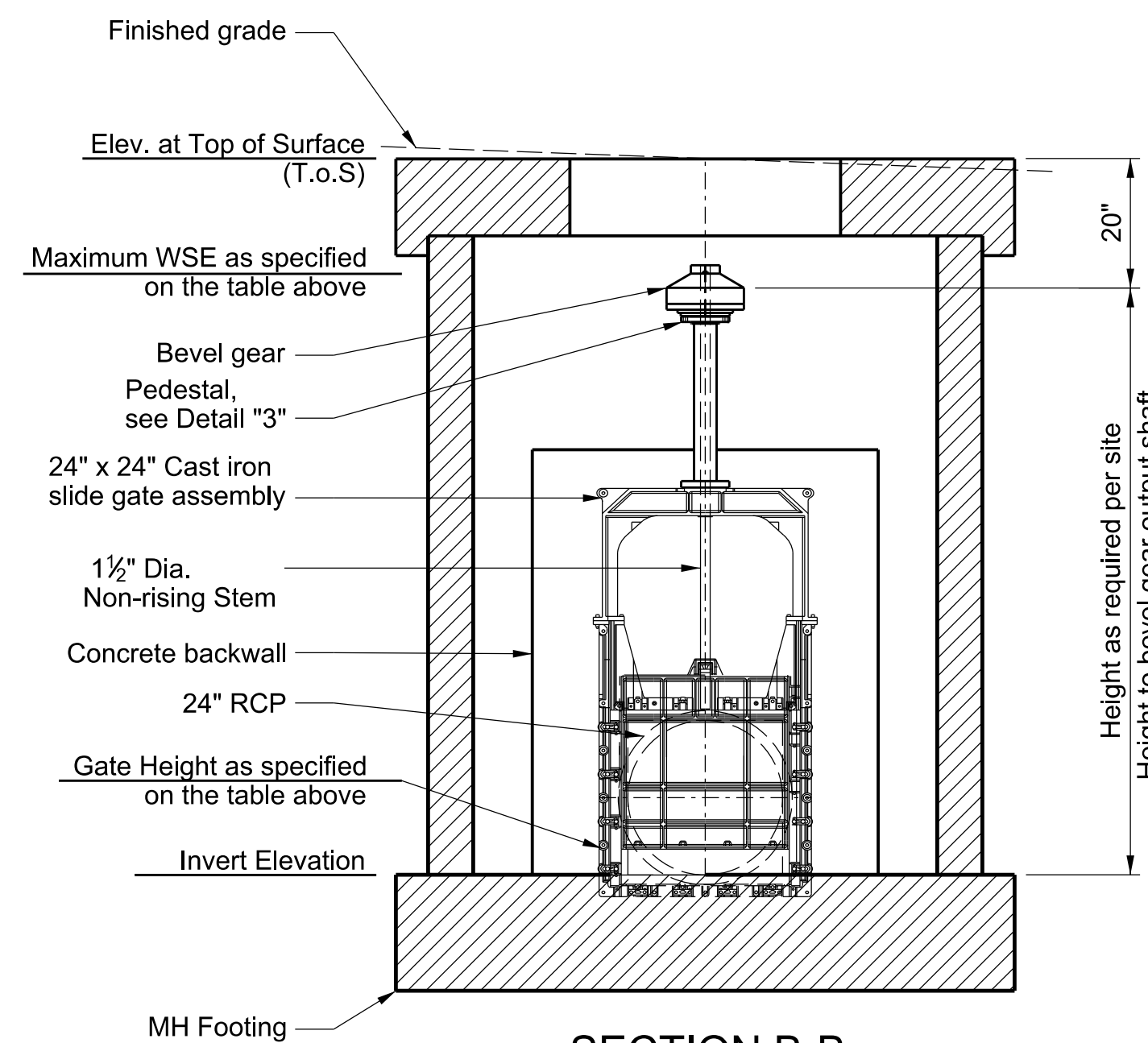




**24 X 24 SLIDE GATE DETAIL**  
SCALE: 1/2" = 1'-0"

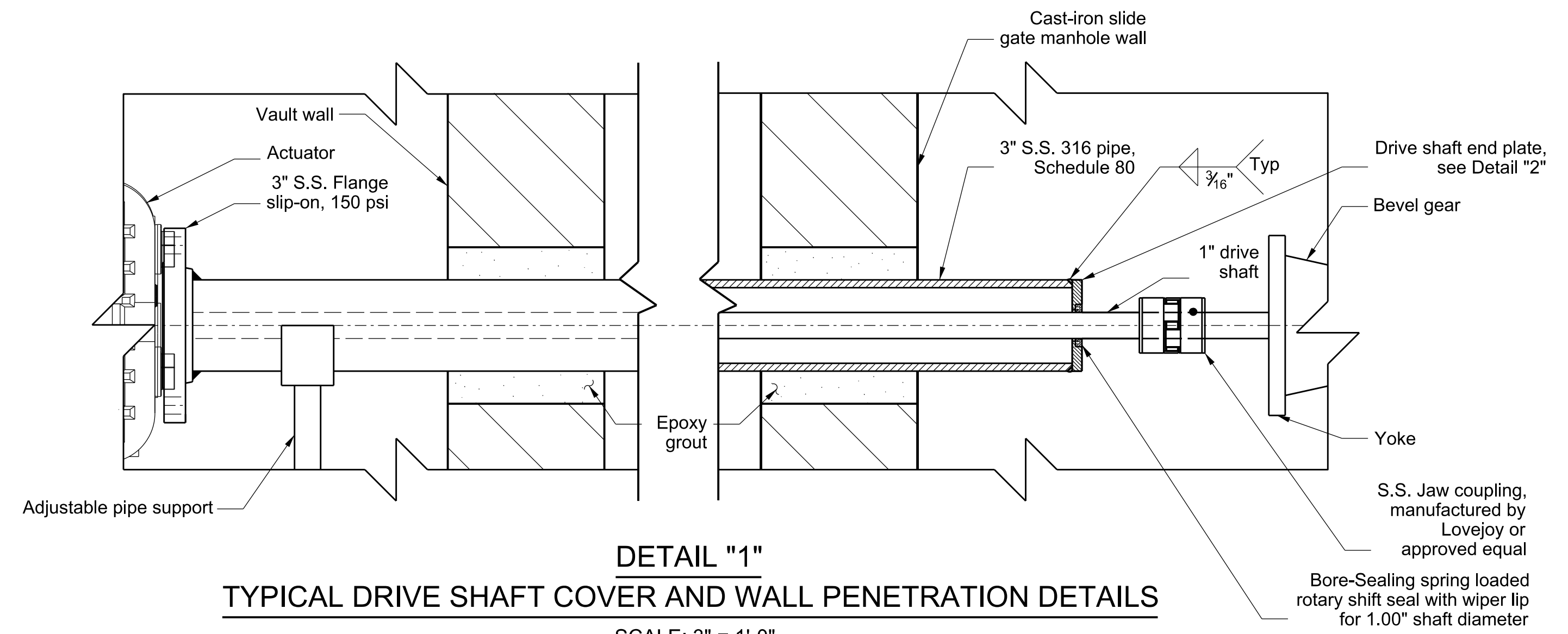


**SECTION A-A**  
SCALE: 1/2" = 1'-0"

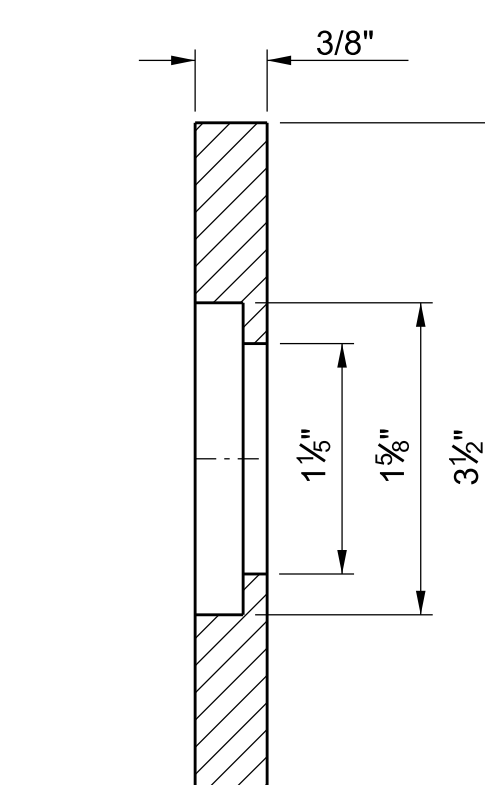


**SECTION B-B**  
SCALE: 1/2" = 1'-0"

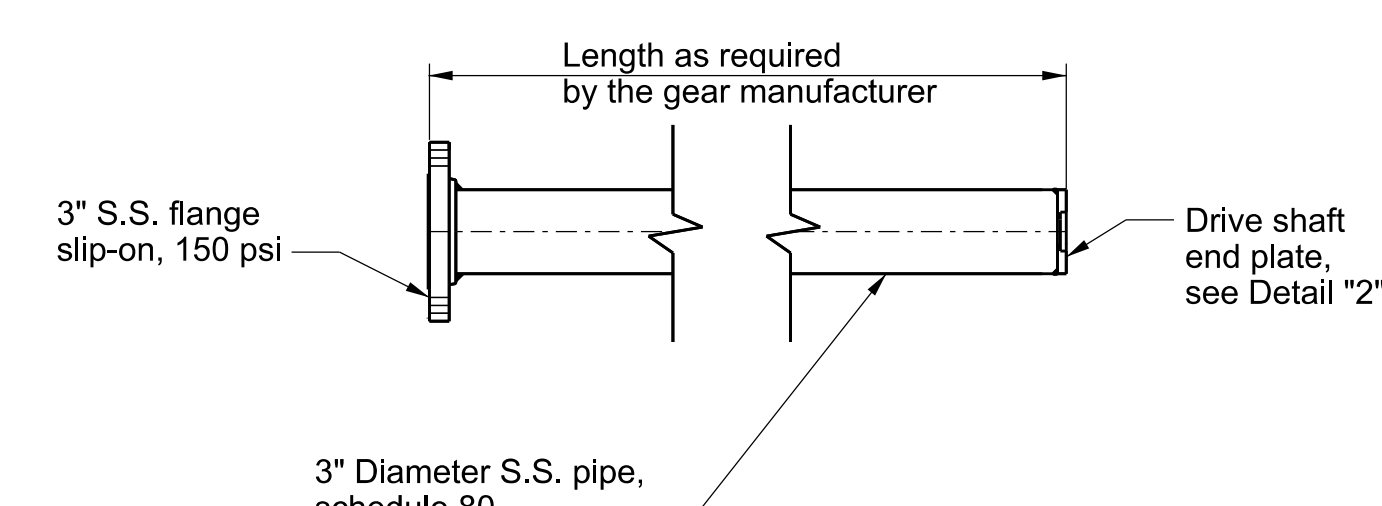
GATES AND ACCESSORIES											
Location	Gate Type	Gate Size	Qty.	Invert El. (ft)	Max. WSE (ft)	El. at TOS (ft)	Max. Operating Head (ft)	Gate Height (in)	Stem Dia. (in)	Drive Shaft Length (ft)	
76th and Whitsett	Cast-iron slide gate	24"x24"	1	138.47	146.09	147.10	6.0	Seating	4	1.5	3.5
Nadeau and Whitsett	Cast-iron slide gate	24"x24"	1	133.09	141.0	142.22	6.5	Seating	4	1.5	3.5



**DETAIL "1"**  
TYPICAL DRIVE SHAFT COVER AND WALL PENETRATION DETAILS  
SCALE: 3" = 1'-0"



**DETAIL "2"**  
DRIVE SHAFT COVER  
END PLATE DETAIL  
SCALE: FULL SCALE 1=1

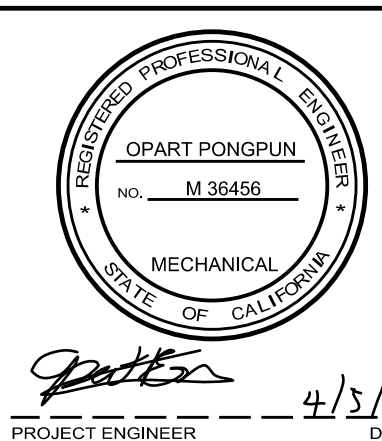


**DETAIL "3"**  
PEDESTAL  
SCALE: 1 1/2" = 1'-0"

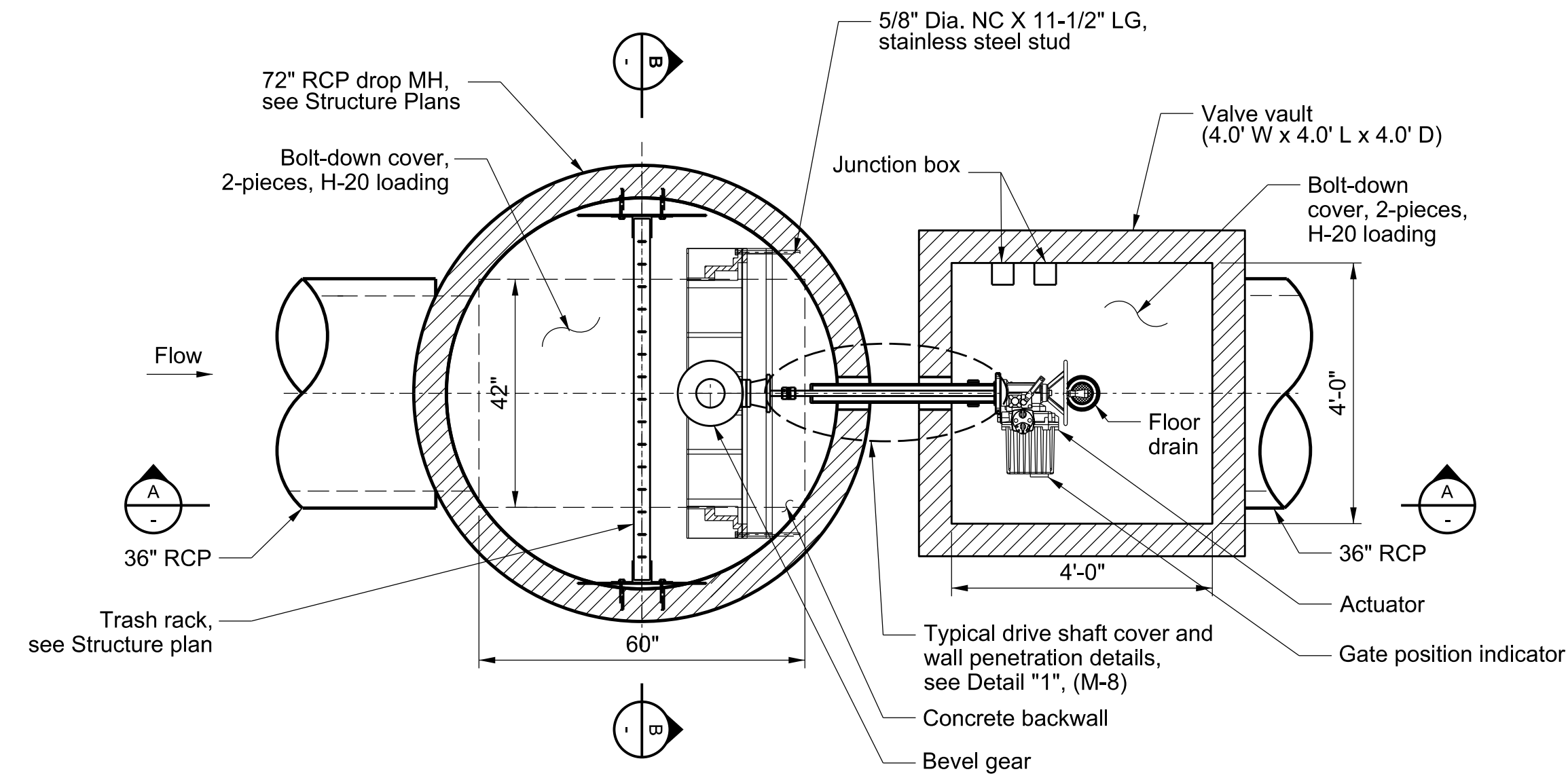
GATE AND VAULT LOCATIONS				
Location	Slide Gate Manhole		Actuator Vault	
	Northing	Easting	Northing	Easting
76th and Whitsett	1,811,912.59	6,488,648.71	1,811,912.55	6,488,642.01
Nadeau and Whitsett	1,810,616.53	6,488,760.95	1,810,620.82	6,488,755.98

REVIEWER: O. PONGPUN  
 CHECKER: O. PONGPUN  
 DESIGNER: J. UNG  
 DRAFTER: J. UNG  
 CADD PROJECT FILE NAME: WMD0000109

DATE	MK	DESCRIPTION



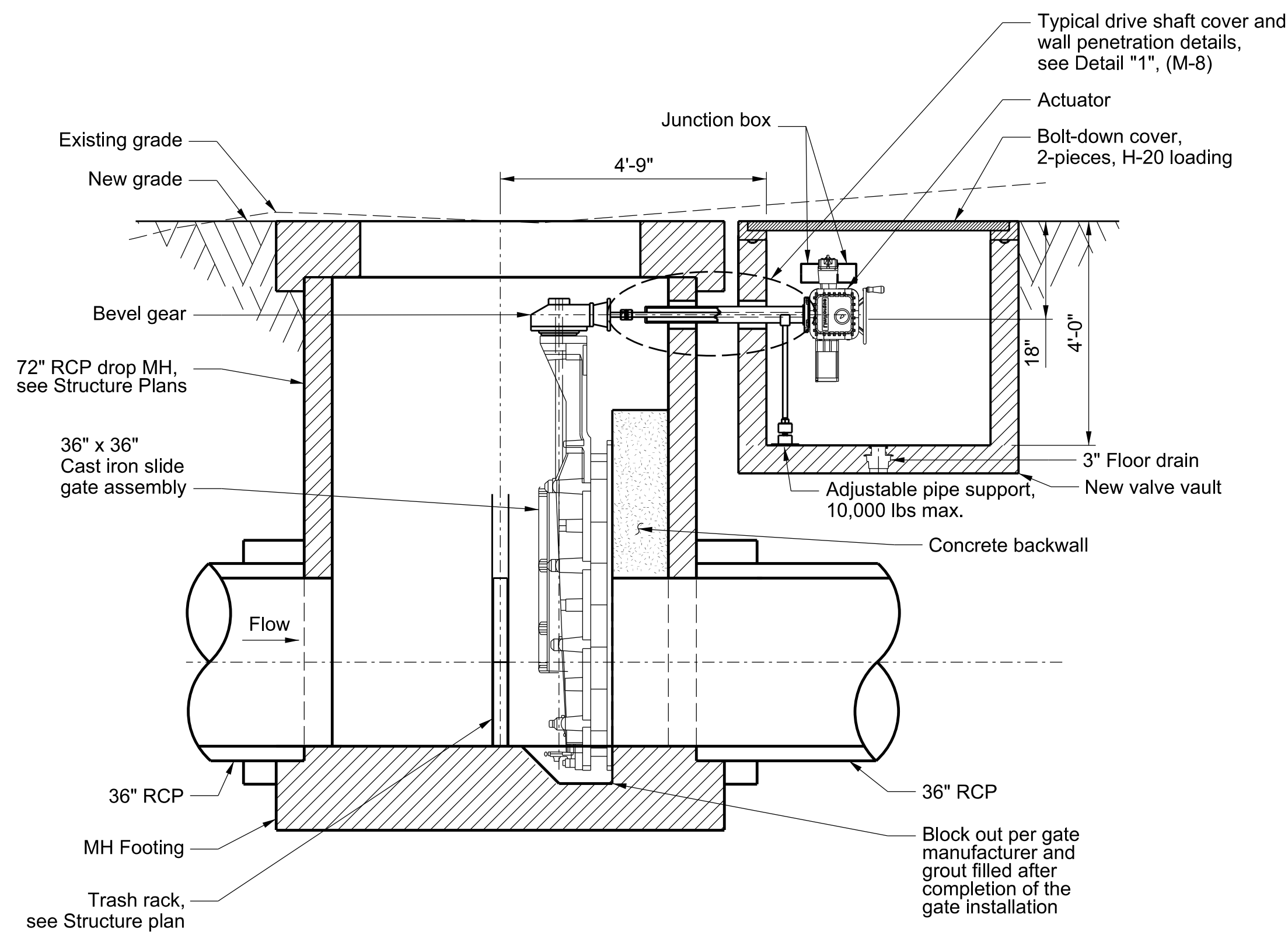
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**  
 24" x 24" SLIDE GATE DETAIL  
 WMD0000109 PCA F21812149 DWG SHEET 48 OF 63



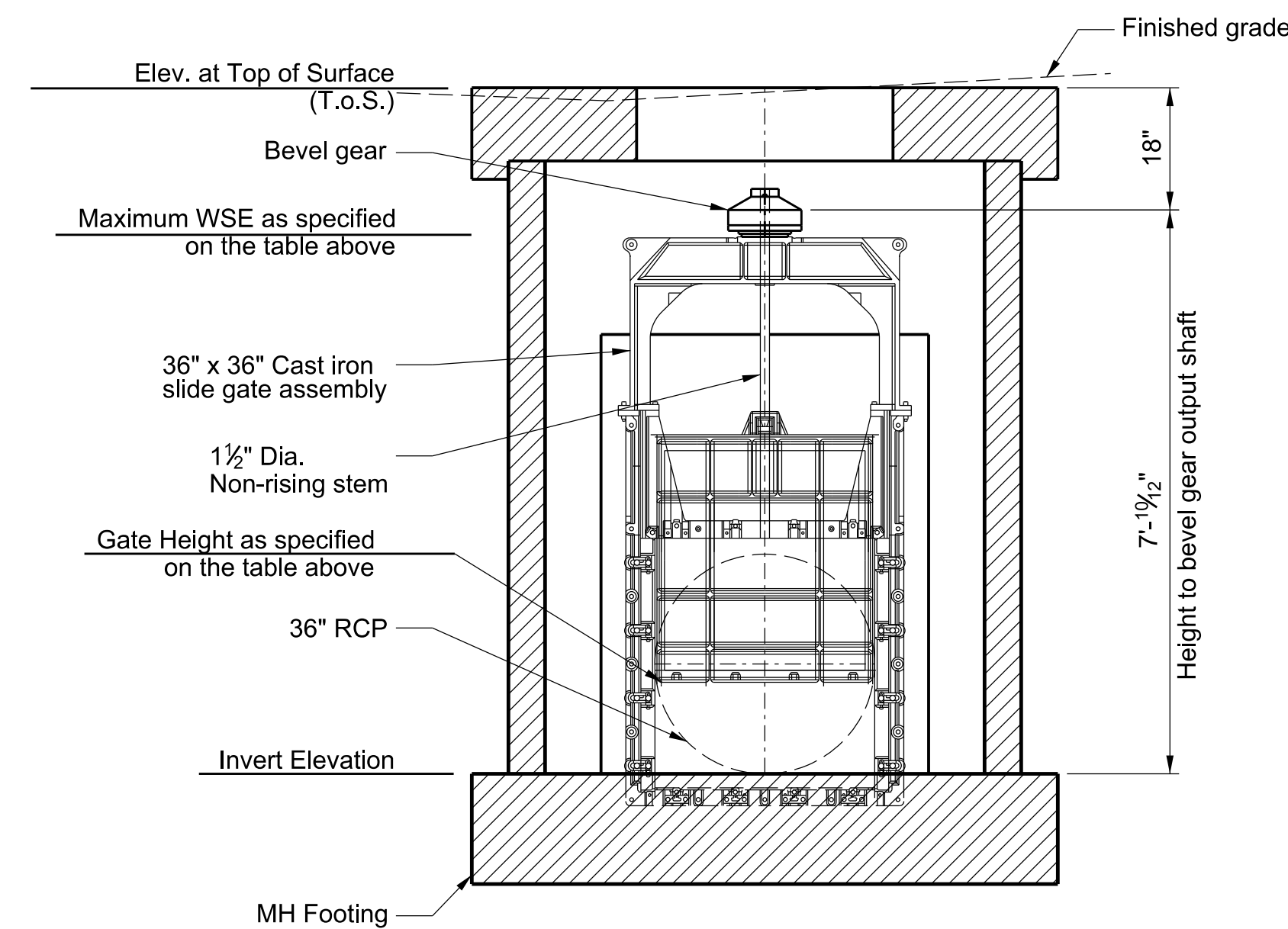
**36" x 36" SLIDE GATE DETAIL**  
SCALE: 1/2" = 1"

GATES AND ACCESSORIES										
Location	Gate Type	Gate Size	Qty.	Invert El. (ft)	Max. WSE (ft)	El. at TOS (ft)	Max. Operating Head (ft)	Gate Height (in)	Stem Dia. (in)	Drive Shaft Length (ft)
71st and Holmes	Cast-iron slide gate	36"x36"	1	145.86	146.2	155.25	6.0	Seating	15	1.5

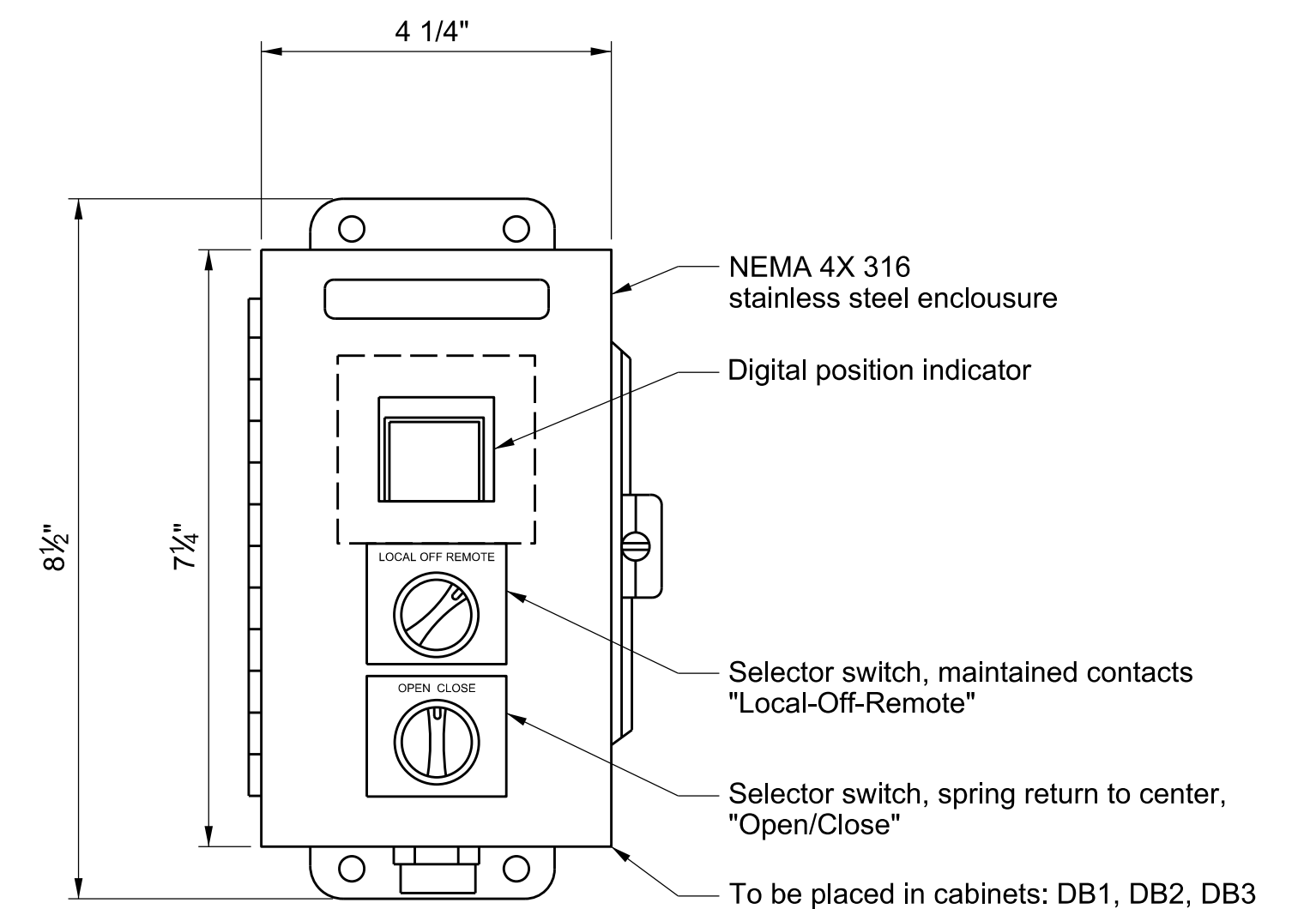
GATE AND VAULT LOCATIONS				
Location	Slide Gate Manhole		Actuator Vault	
	Northing	Easting	Northing	Easting
71st and Holmes	1,813,482.68	6,488,526.51	1,813,475.93	6,488,526.57



**SECTION A-A**  
SCALE: 1/2" = 1"



**SECTION B-B**  
SCALE: 1/2" = 1"

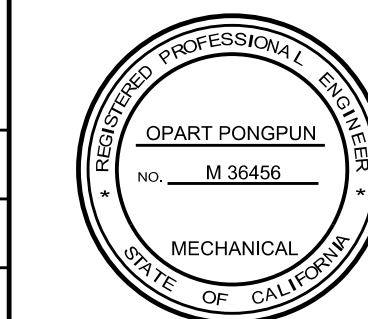


**TYPICAL REMOTE CONTROLLER FOR EMO**  
SCALE: NOT TO SCALE

REVIEWER: O. PONGPUN  
CHECKER: O. PONGPUN  
DESIGNER: J. UNG  
DRAFTER: J. UNG

CADD PROJECT FILE NAME: WMD0000109

DATE	MK	DESCRIPTION



PROJECT ENGINEER: [Signature] DATE: 4/3/13

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

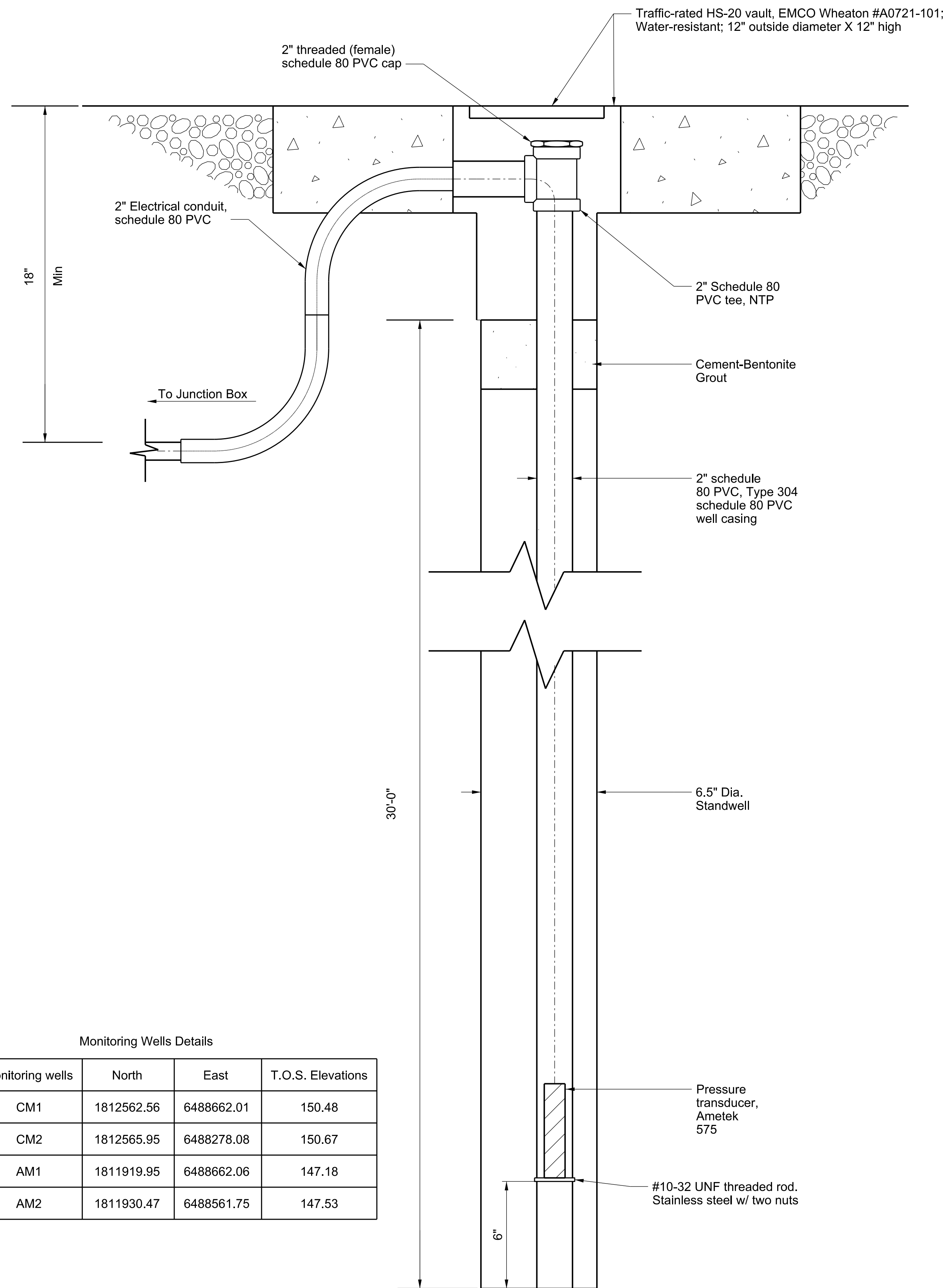
**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

36" x 36" SLIDE GATE DETAIL

WMD0000109 PCA F21812149 DWG SHEET 49 OF 63

M-9

ADDENDUM NO. 1

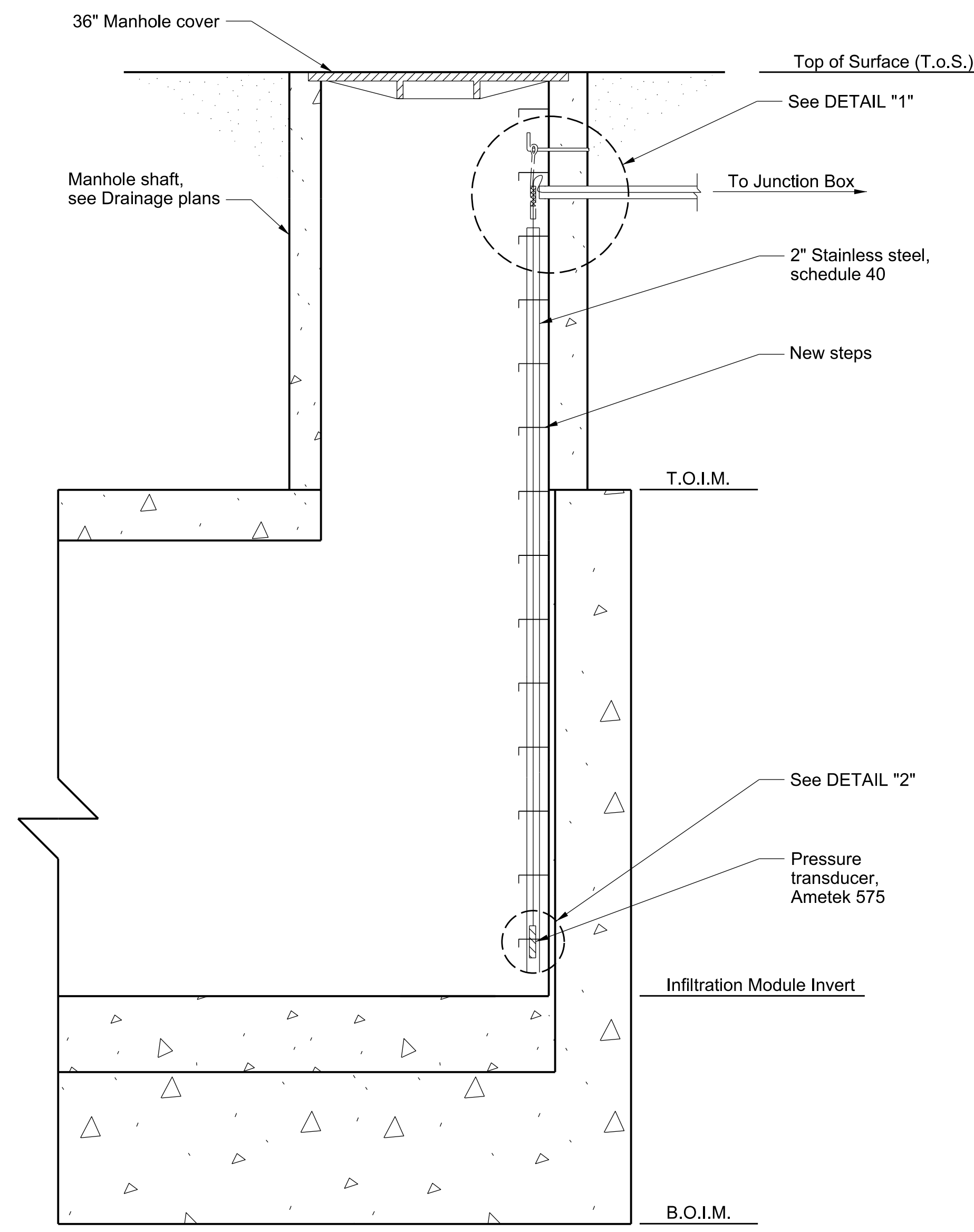


Monitoring Wells Details

Monitoring wells	North	East	T.O.S. Elevations
CM1	1812562.56	6488662.01	150.48
CM2	1812565.95	6488278.08	150.67
AM1	1811919.95	6488662.06	147.18
AM2	1811930.47	6488561.75	147.53

TYPICAL MONITORING WELLS TRANSDUCER INSTALLATIONS

SCALE: 1 1/2" = 1'-0"

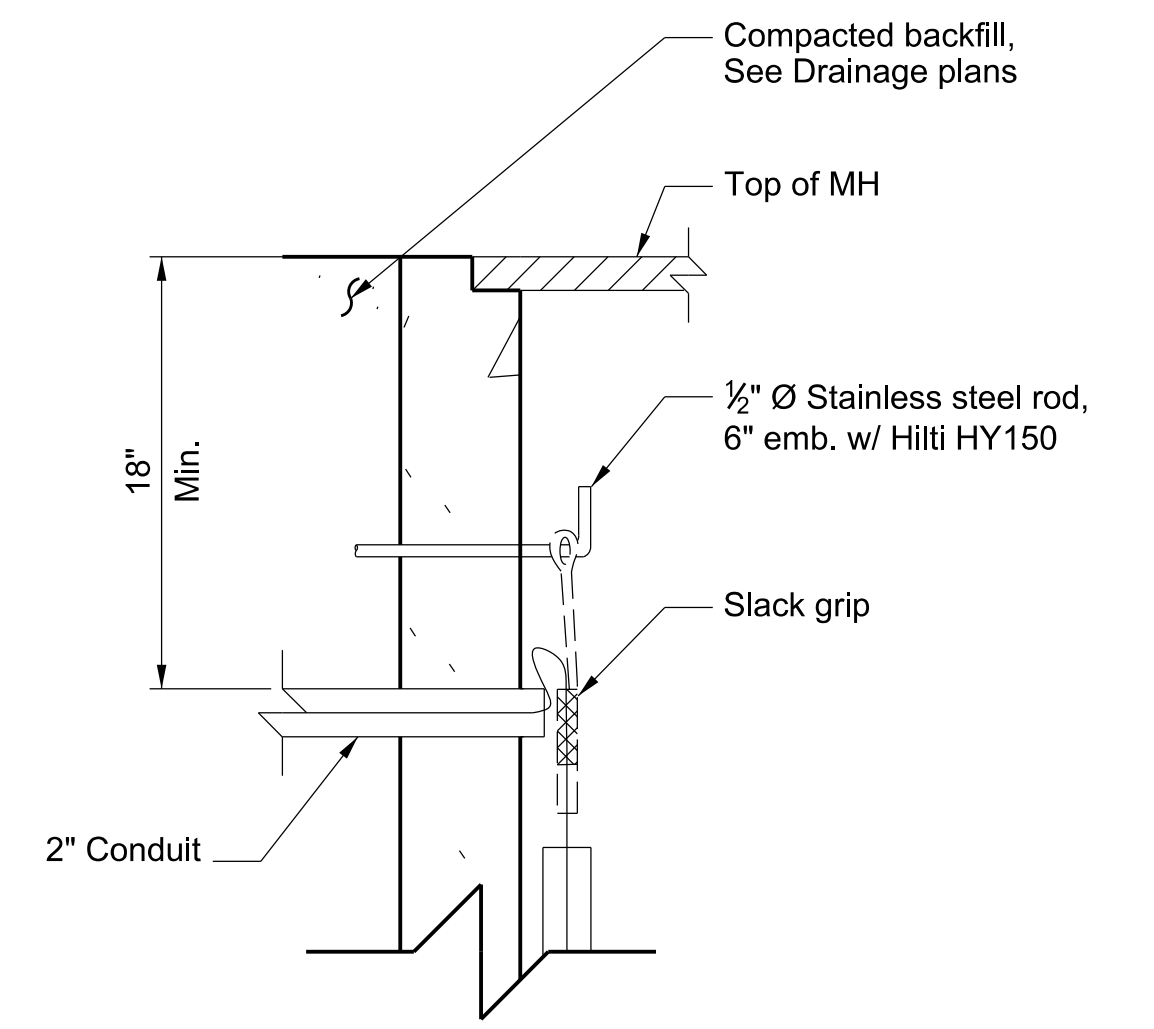


TYPICAL INFILTRATION MODULE PRESSURE TRANSDUCER INSTALLATION

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

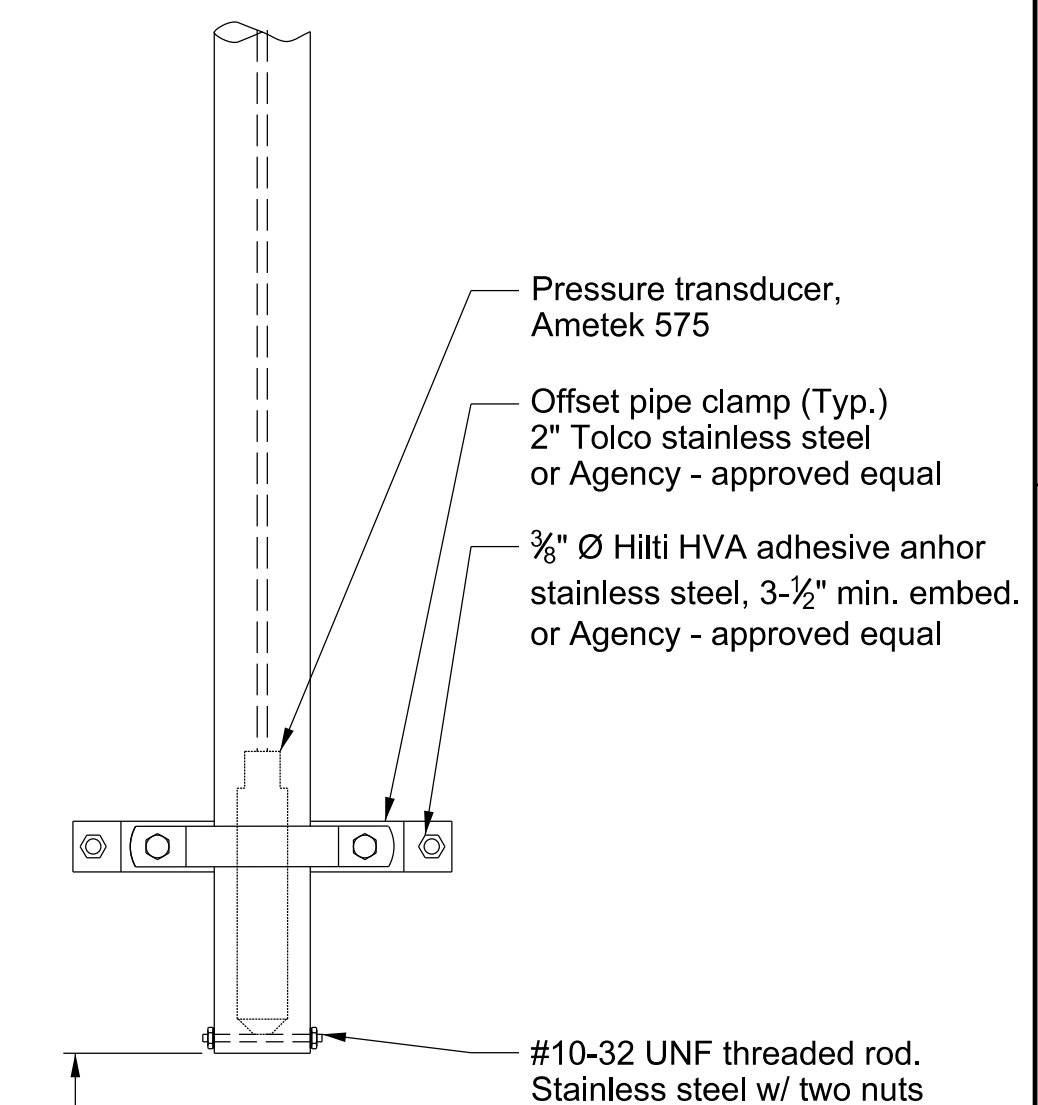
Infiltration Module Details

Infiltration Module	T.O.S. Elevations	Top of Infiltration Module (T.O.I.M.)	Bottom of Infiltration Module (B.O.I.M.)	Infiltration Module Invert
Holmes Ave	149.5	144.15	134.48	137.48
76th Place	147.7	142.15	132.48	135.48



DETAIL "1"

SCALE: 1" = 1'-0"

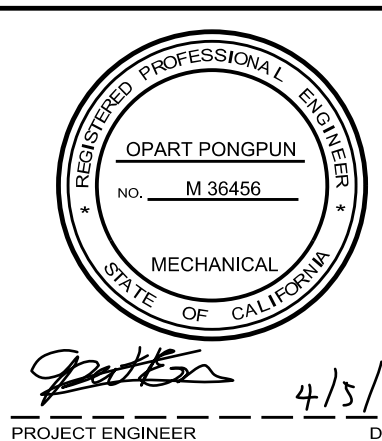


DETAIL "2"

SCALE: 1 1/2" = 1'-0"

REVIEWER: O. PONGPUN  
 CHECKER: O. PONGPUN  
 DESIGNER: J. UNG  
 DRAFTER: J. UNG

DATE	MK	DESCRIPTION
REVISIONS		



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

PRESSURE TRANSDUCER INSTALLATION DETAILS

PROJECT ENGINEER: [Signature] DATE: 4/5/18

WMD0000109 PCA F21812149 SHEET 50 OF 63

M-10

**APPLICABLE CODES AND STANDARDS:**

ALL CONSTRUCTION SHALL COMPLY WITH LATEST APPROVED CODES LISTED BELOW AND ALL APPLICABLE CODES, STATUTES, REGULATIONS, ORDINANCES, ETC. CURRENTLY IN FORCE AND THROUGHOUT THE DURATION OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING

2017 LOS ANGELES COUNTY ELECTRICAL CODE BASED ON THE 2016 CEC (CALIFORNIA ELECTRICAL CODE) AND 2014 NEC (NATIONAL ELECTRICAL CODE).

SPPWC STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

**GENERAL NOTES:**

A. NEW ELECTRICAL SERVICE(S) WILL APPLIED AND PAID FOR BY THE AGENCY PRIOR TO THE STARTING OF THE PROJECT. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATION & CONNECTION WORK WITH SOUTHERN CALIFORNIA EDISON (S.C.E.) SERVICE PLANNER. FIELD VERIFY LOCATION(S) OF THE NEW ELECTRICAL METER SERVICE PEDESTAL(S). OBTAIN CONSTRUCTION MAP AND ELECTRICAL INSTALLATION REQUIREMENTS FROM S.C.E. SERVICE PLANNER PRIOR TO STARTING OF ANY ELECTRICAL WORK. NOTIFY S.C.E. FOR INSPECTION AND APPROVAL 48 HRS. IN ADVANCE. SEE SPPWC SPECIFICATION SECTION 701-14 "SERVICES".

**S.C.E. POINT OF CONTACT:**

CHRIS LONG  
1924 CASHDAN ST  
COMPTON, CA 90224  
OFFICE: (310) 608-5042

B. WORK UNDER THIS CONTRACT SHALL INCLUDE, BUT NOT TO BE LIMITED TO, FURNISHING, INSTALLING AND CONNECTION OF ALL ELECTRICAL EQUIPMENT AND TESTING OF ALL SYSTEMS AND SUB-SYSTEMS WITHIN THE SCOPE OF WORK. BEFORE ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL DEMONSTRATE, IN THE PRESENCE OF THE ENGINEER, THAT ALL PORTIONS OF THE ELECTRICAL WORK ARE OPERATING PROPERLY PER MANUFACTURER'S SPECIFICATION.

C. COORDINATE ALL WORK WITH ARCHITECTURAL, CIVIL, MECHANICAL AND LANDSCAPING PLANS.

D. ALL ITEMS ARE NEW.

E. CONDUCTORS: ALL SHALL BE COPPER, RATED 600V, INSULATION TYPE XHHW OR THWN-2, 90°. INSTALL PER SPPWC SPECIFICATION SECTION 701-13 "WIRES, CONDUCTORS AND CABLES".

F. CONDUITS: EXPOSED OUTDOOR CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS) INSTALL PER SPPWC SPECIFICATION SECTION 701-12.2 "RIGID METALLIC CONDUIT" & SPECIFICATION SECTION 701-12.3 "GALVANIZED PIPE", ALL EXTERIOR UNDERGROUND CONDUITS SHALL PVC SCHD80 (STRAIGHT RUNS) AND PVC SCHD80 (SWEEPS), INSTALL PER SPPWC SPECIFICATION SECTION 701-12.4 "RIGID NON-METALLIC CONDUIT", SEE ELECTRICAL SITE PLAN FOR CONDUIT SIZE. ALL CONDUIT RUNS SHALL HAVE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC.

G. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

H. THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

**ELECTRICAL SYMBOLS LIST:**

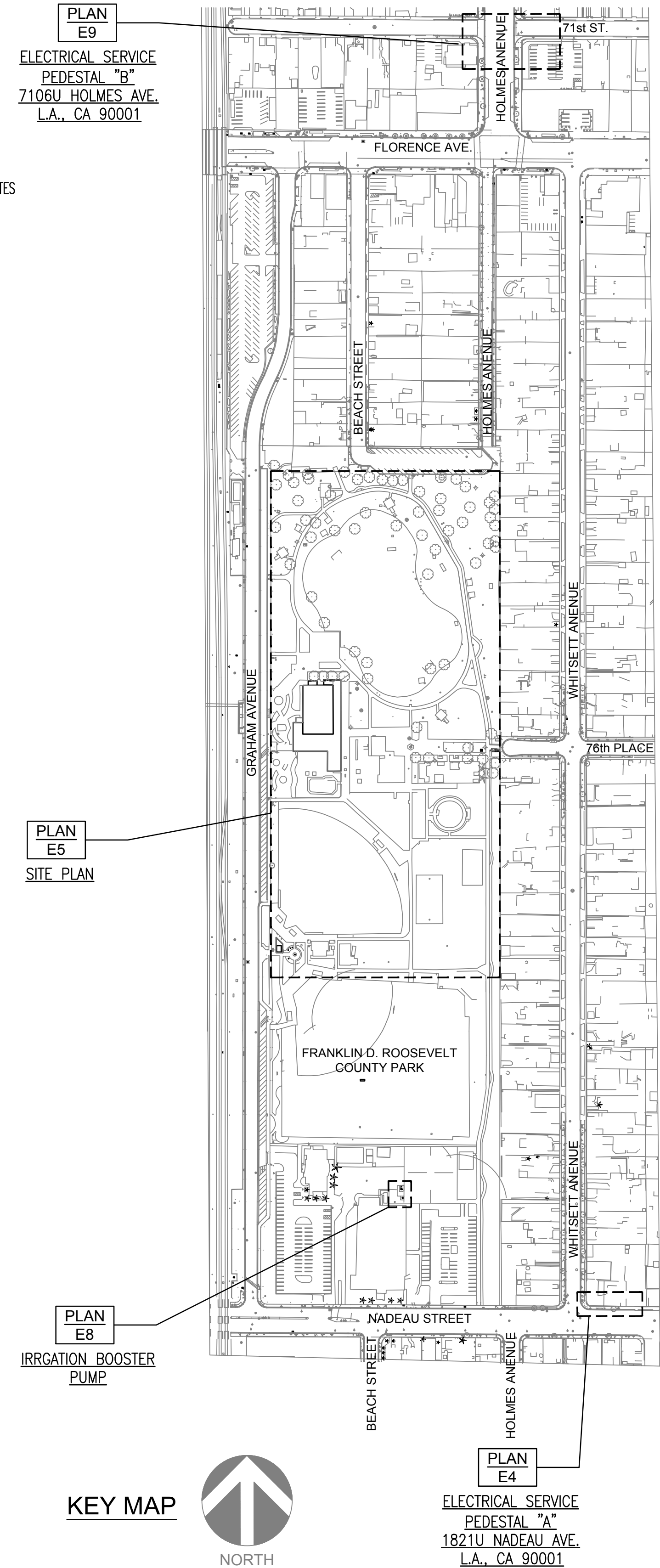
- ELECTRICAL SERVICE PEDESTAL, SEE DETAIL 1 ON PLAN E2.
- POWER OR LIGHTING UNDERGROUND CONDUIT
- MONITORING UNDERGROUND CONDUIT
- CALL OUT NOTE
- POWER & LIGHTING PULL BOX No.1, SEE DETAIL 4 ON PLAN E2.
- CAPPED CONDUIT
- SOCCER FIELD LIGHT POLE "S1"
- (3) LED SPORTS LIGHT FIXTURES ON HORIZONTAL MOUNTING BAR. LETTER & NUMBERS DENOTES SOURCE PANEL BOARD "B" CKTS 1,3.
- LED SPORTS LIGHTING "A". NUMBER DENOTES QUANTITY.
- MOTOR, 240V-1Ø, HP RATING AS INDICATED
- FUSED DISCONNECT SWITCH 480V-3Ø, HEAVY DUTY. 30-AMPERE FRAME, 20-AMPERE TRIP.
- CONDUIT TURNED DOWN
- CONDUIT TURNED UP
- FEEDER OR BRANCH CIRCUIT CALL OUT
- ANTENNA (POLE MOUNTED)
- ANTENNA (CABINET MOUNTED)
- MONITORING PULL BOX "A1", SEE DETAIL 3 ON PLAN M-3
- PRESSURE TRANSDUCER

**ABBREVIATIONS LIST:**

- AFF ABOVE FINISH FLOOR
- AFG ABOVE FINISH GRADE
- AWG AMERICAN WIRE GAUGE
- A AMPERE
- AIC AMPERE INTERRUPTING CAPACITY (SYMMETRICAL)
- AF AMPERE FRAME
- AT AMPERE TRIP
- BKR BREAKER
- CCTV CLOSED-CIRCUIT TELEVISION
- CKT CIRCUIT
- CB CIRCUIT BREAKER
- C CONDUIT
- CO CONDUIT ONLY
- C.W.P. COLD WATER PIPE
- DIST. BD. DISTRIBUTION BOARD
- DIA DIAMETER
- DS DUCT SMOKE DETECTOR
- E.G. EQUIPMENT GROUND
- EMO ELECTRIC MOTOR OPERATOR
- EMT ELECTRICAL METALLIC TUBING
- (E) EXISTING
- FACP FIRE ALARM CONTROL PANEL
- FLA FULL LOAD AMPS
- G GROUND
- G.D. GARBAGE DISPOSAL
- GFI GROUND FAULT INTERRUPTER
- HH HAND HOLE
- I.G. ISOLATED GROUND
- JB JUNCTION BOX
- KVA KILO-VOLT AMPERES
- KW KILO-WATT
- KWH KILO-WATT-HOUR
- LADWP L.A. DEPT OF WATER & POWER
- LCL LONG CONTINUOUS LOAD
- LCP LIGHTING CONTROL PANEL
- L LENGTH
- LTC LIGHTING
- MCR MAIN COMPUTER ROOM
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY
- MCP MOTOR CIRCUIT PROTECTOR
- MTD MOUNTED
- (N) NEW
- N.I.C. NOT IN CONTRACT
- Ø PHASE
- P POLE
- PA PUBLIC ADDRESS
- PLC PROGRAM LOGIC CONTROLLER
- PNL PANEL
- PT PRESSURE TRANSDUCER
- PVC POLY-VINYL CHLORIDE
- RCS REMOTE CONTROL STATION
- RGS RIGID GALVANIZED STEEL
- S.C.E. SOUTHERN CALIFORNIA EDISON
- SCHD SCHEDULE
- SHT SHEET
- S/L STREET LIGHT
- SWBD SWITCHBOARD
- SWGR SWITCHGEAR
- TYP TYPICAL
- U.N.O. UNLESS NOTED OTHERWISE
- V VOLTS
- VA VOLT AMPERES
- VD VOLTAGE DROP
- WP WEATHERPROOF
- W WIRE
- XFR TRANSFER
- XFMR TRANSFORMER

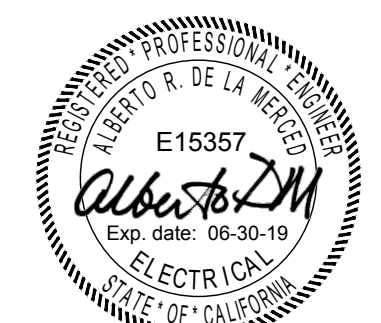
**SHEET INDEX**

SHT. No.	PLAN E	DESCRIPTION
51	E1	GENERAL NOTES, SYMBOLS, SHEET INDEX, KEY MAP
52	E2	DETAILS
53	E3	DETAILS
54	E4	WHITSETT AVE & NADEAU ST. SITE PLAN, ONE-LINE DIAGRAM, PANEL SCHEDULE, NOTES
55	E5	SITE PLAN, NOTES
56	E6	ONE-LINE DIAGRAM, PANEL SCHEDULES, NOTES
57	E7	SPORTS LIGHTING DETAILS, NOTES
58	E8	SPORTS LIGHTING FOUNDATION PLAN & IRRIGATION BOOSTER PUMP POWER PLAN
59	E9	71st ST. & HOLMES AVE. SITE PLAN, ONE-LINE DIAGRAM, PANEL SCHEDULE, NOTES
60	E10	TELEMETRY & PLC BLOCK DIAGRAMS



DATE \_\_\_\_\_  
 REVIEWED BY \_\_\_\_\_  
 CAD PROJECT FILE NAME \_\_\_\_\_  
 CHECKER \_\_\_\_\_  
 DESIGNER ADM \_\_\_\_\_  
 DRAFTER ADM \_\_\_\_\_

DATE	MK	DESCRIPTION
REVISIONS		



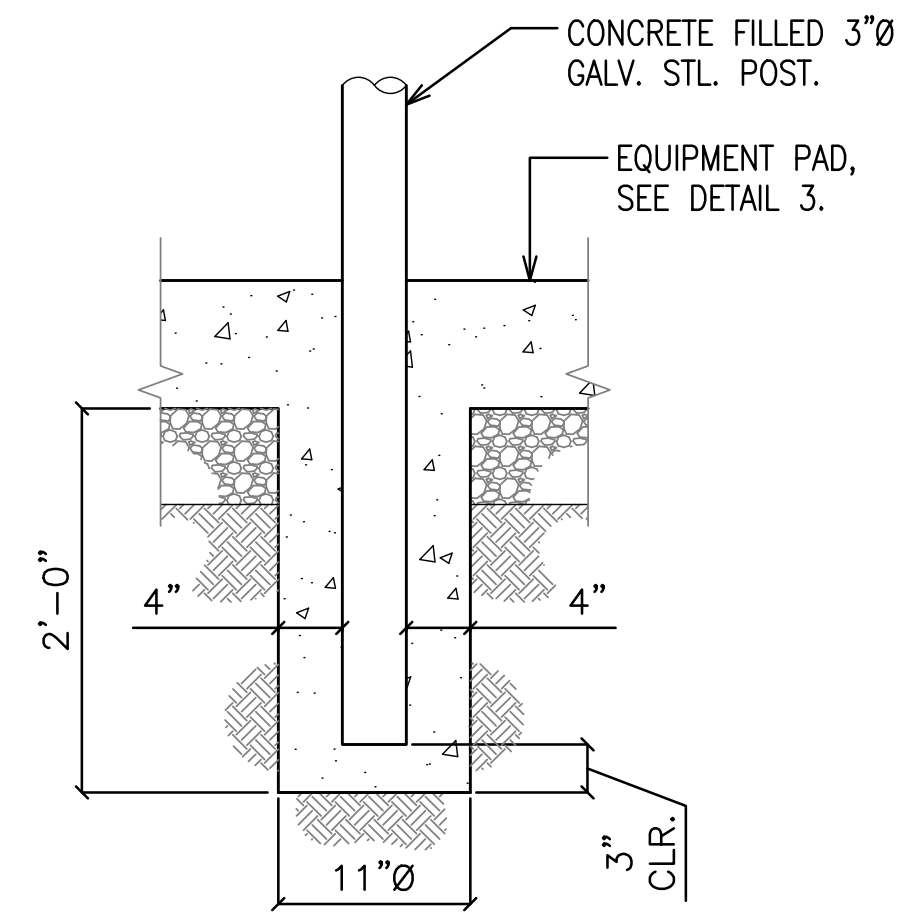
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK**  
REGIONAL STORMWATER CAPTURE PROJECT

GENERAL NOTES, SYMBOLS, SHEET INDEX,  
KEY MAP

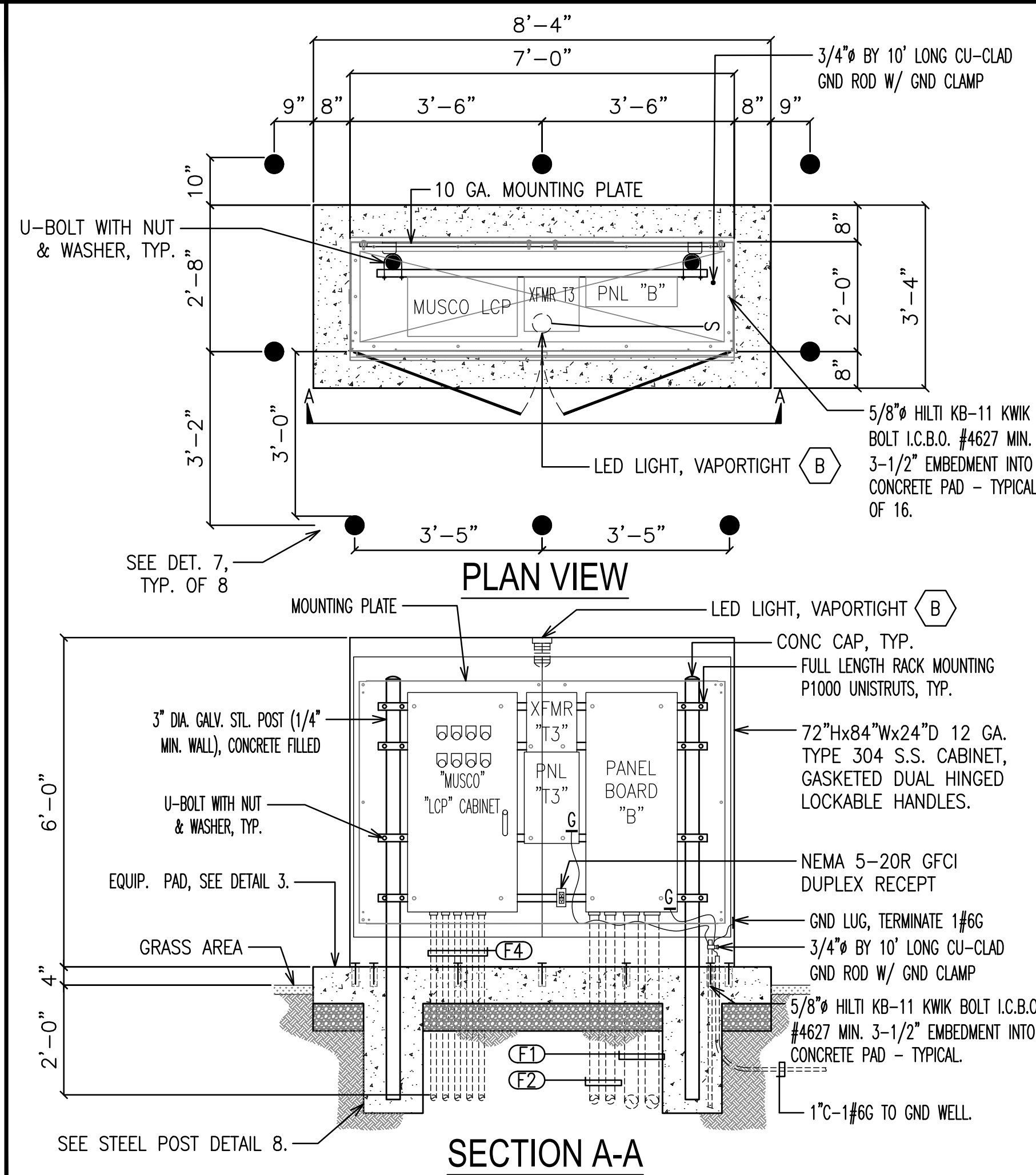
E1

PIN WMD0000109    PCA F21812149    SHEET 51 OF 63



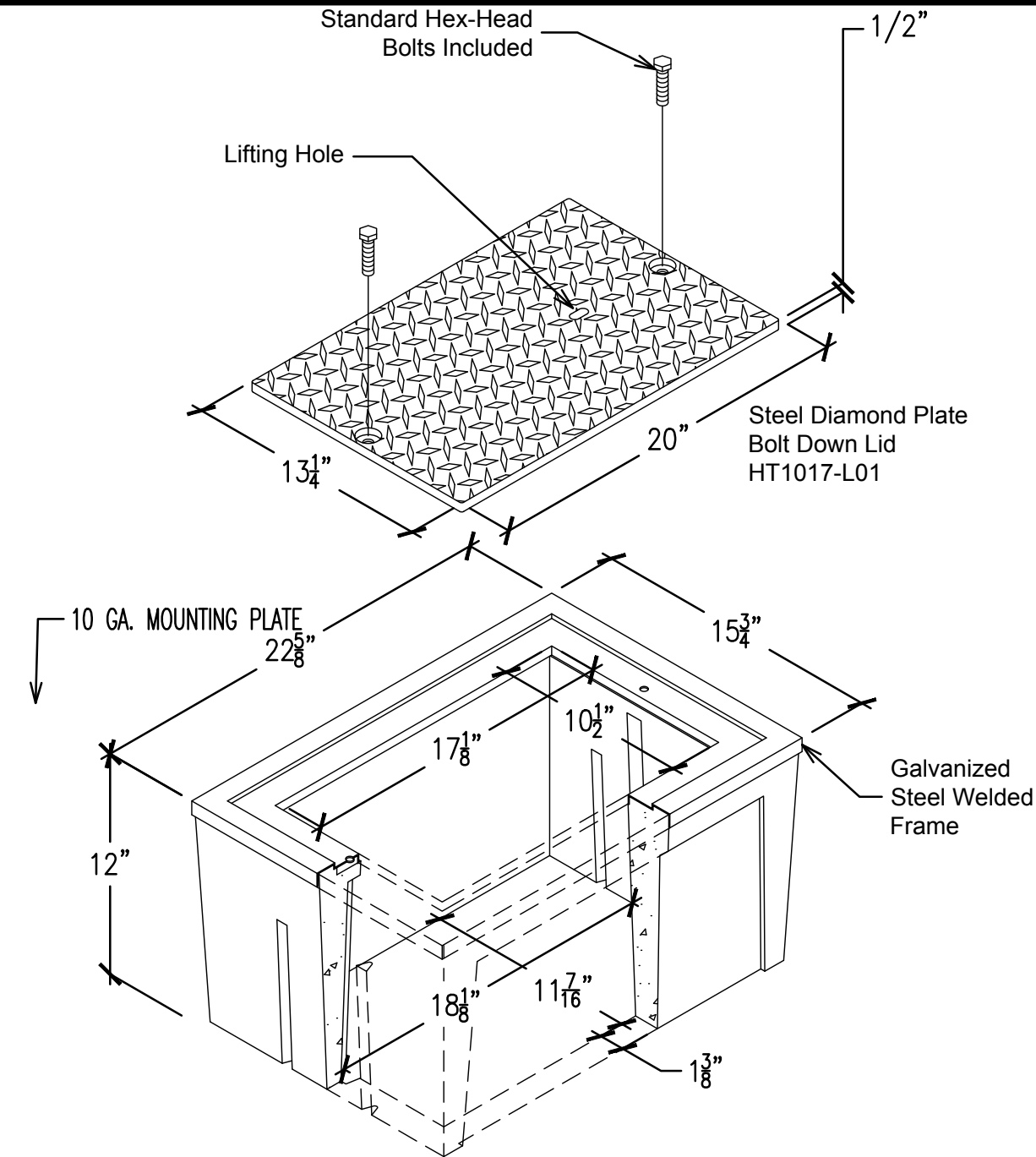
STL. POST DETAIL

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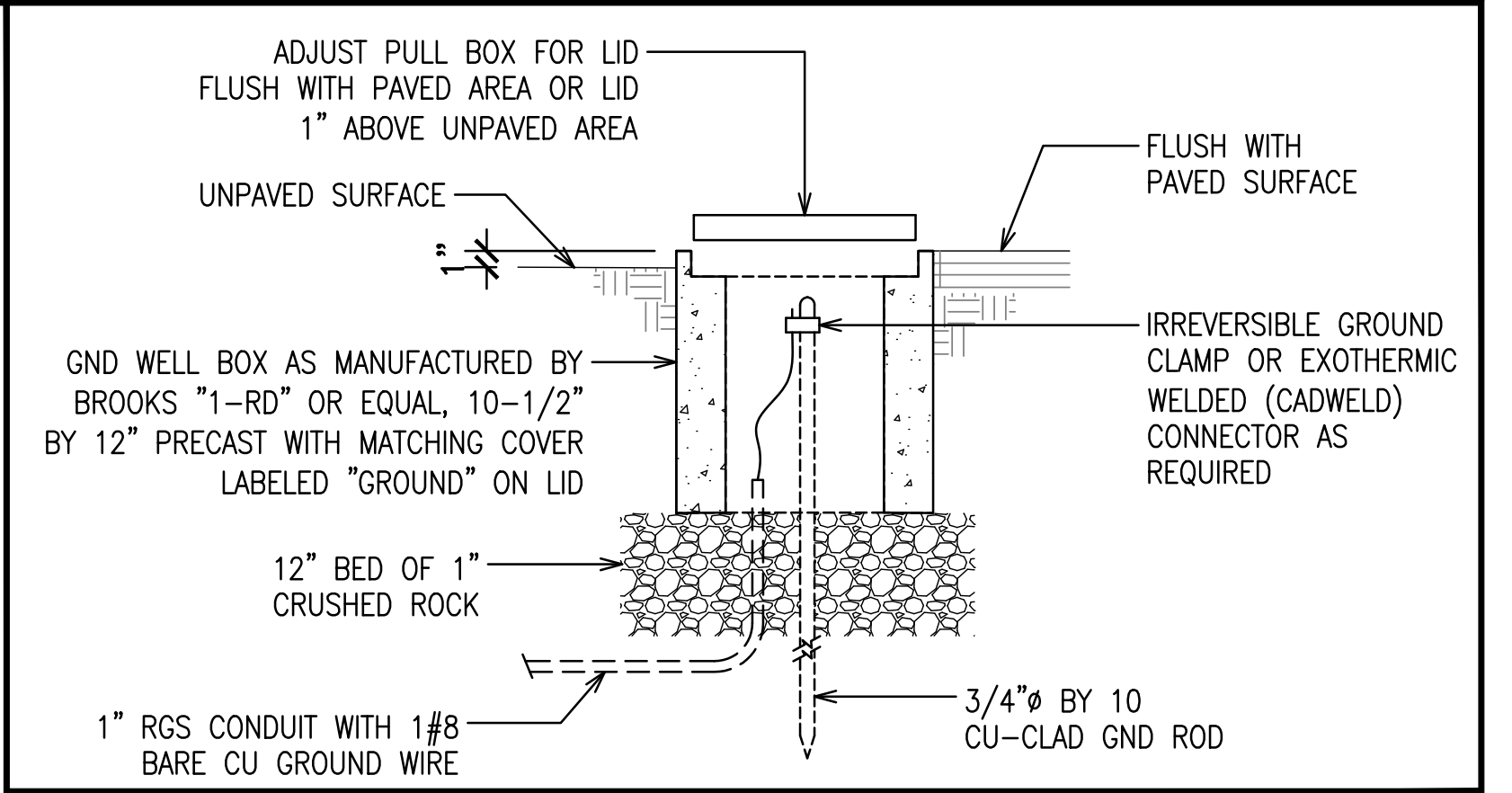
LCP & PNL "B" STAND-UP CABINET DETAIL

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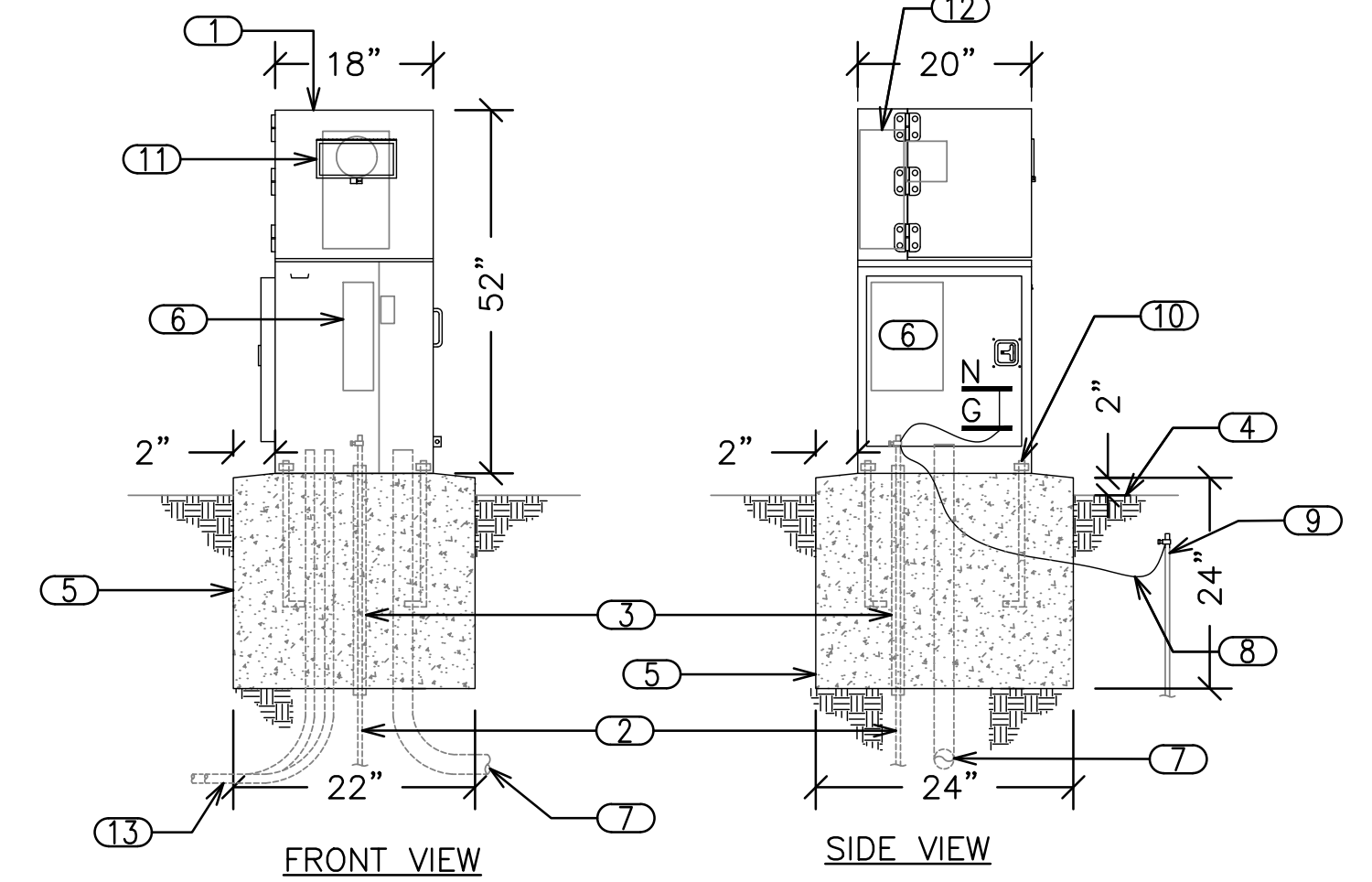
No. 3-1/2 (T) PULL BOX DETAIL

NO SCALE ④



GROUND WELL DETAIL

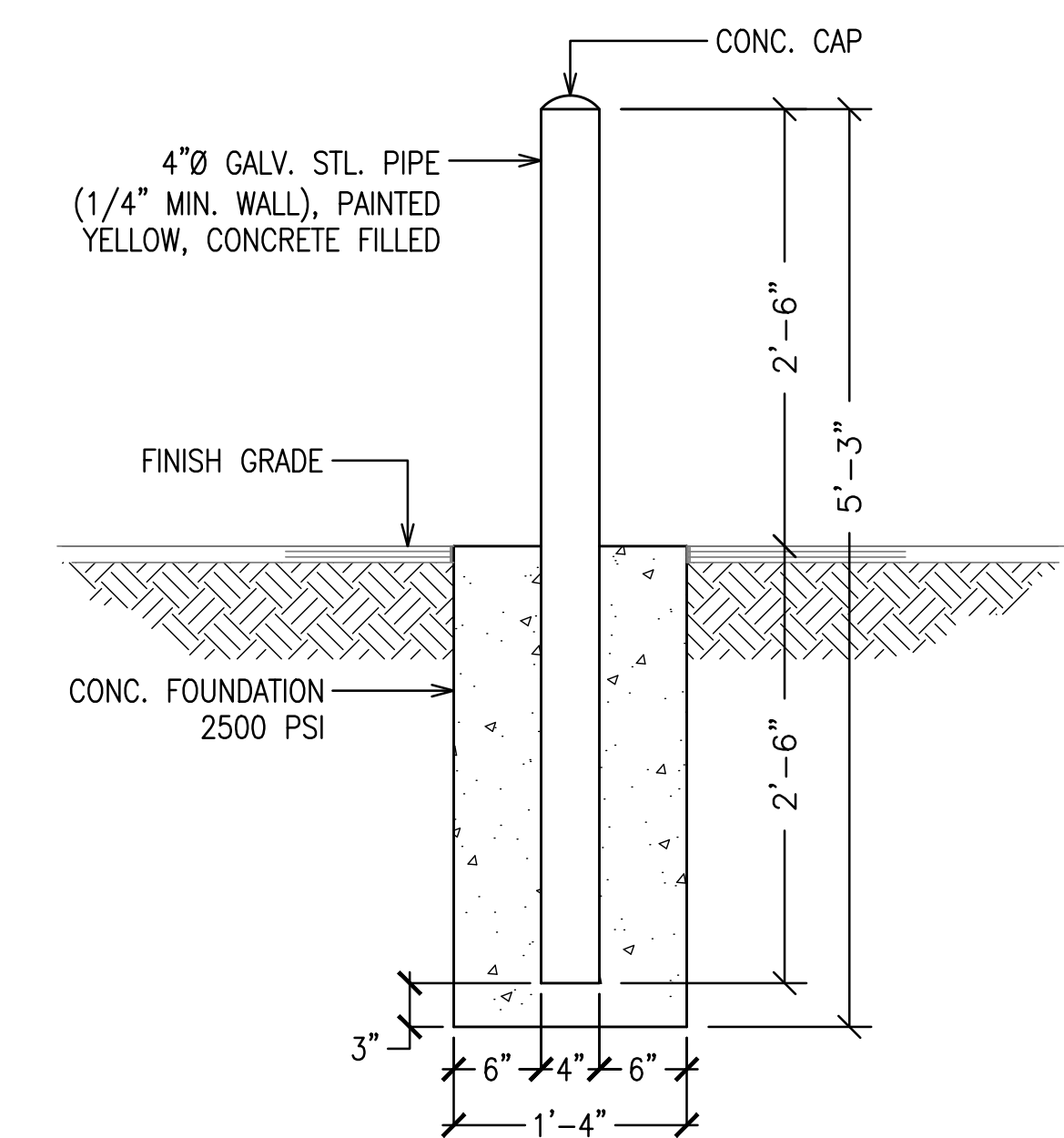
NO SCALE ②



- ① METERED SERVICE PEDESTAL,
- ② 3/4" BY 10' LONG CU-CLAD GND ROD W/ GND CLAMP
- ③ PVC SLEEVE FOR GROUND ROD
- ④ FINISH GRADE
- ⑤ POURED CONCRETE BASE - EXTEND 2" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE WITH 0.5% SLOPE FOR DRAINAGE.
- ⑥ LOAD CENTER, 100A/2P MAIN CB-120/240V-1φ-3W-42KAIC MIN.
- ⑦ 3" PVC SCH80 CONDUIT WITH 3/8" WIDTH WOVEN MULTI-FIBER RIBBON PULL TAPE, 30" MIN. COVER, CABLES BY UTILITY COMPANY
- ⑧ #8 AWG. MINIMUM GND ELECTRODE CONDUCTOR.
- ⑨ 3/4" BY 10' LONG CU-CLAD GND ROD IN GROUND WELL, SEE DETAIL 2.
- ⑩ FOUR (4) ANCHOR BOLTS, ONE AT EACH CORNER OF THE ELECTRICAL SERVICE ENCLOSURE,
- ⑪ METER VIEWING WINDOW.
- ⑫ METER SOCKET WITH TEST BLOCKS
- ⑬ U.G. BRANCH CIRCUITS, SEE SITE PLANS FOR NUMBER OF CONDUITS AND WIRES SIZES.

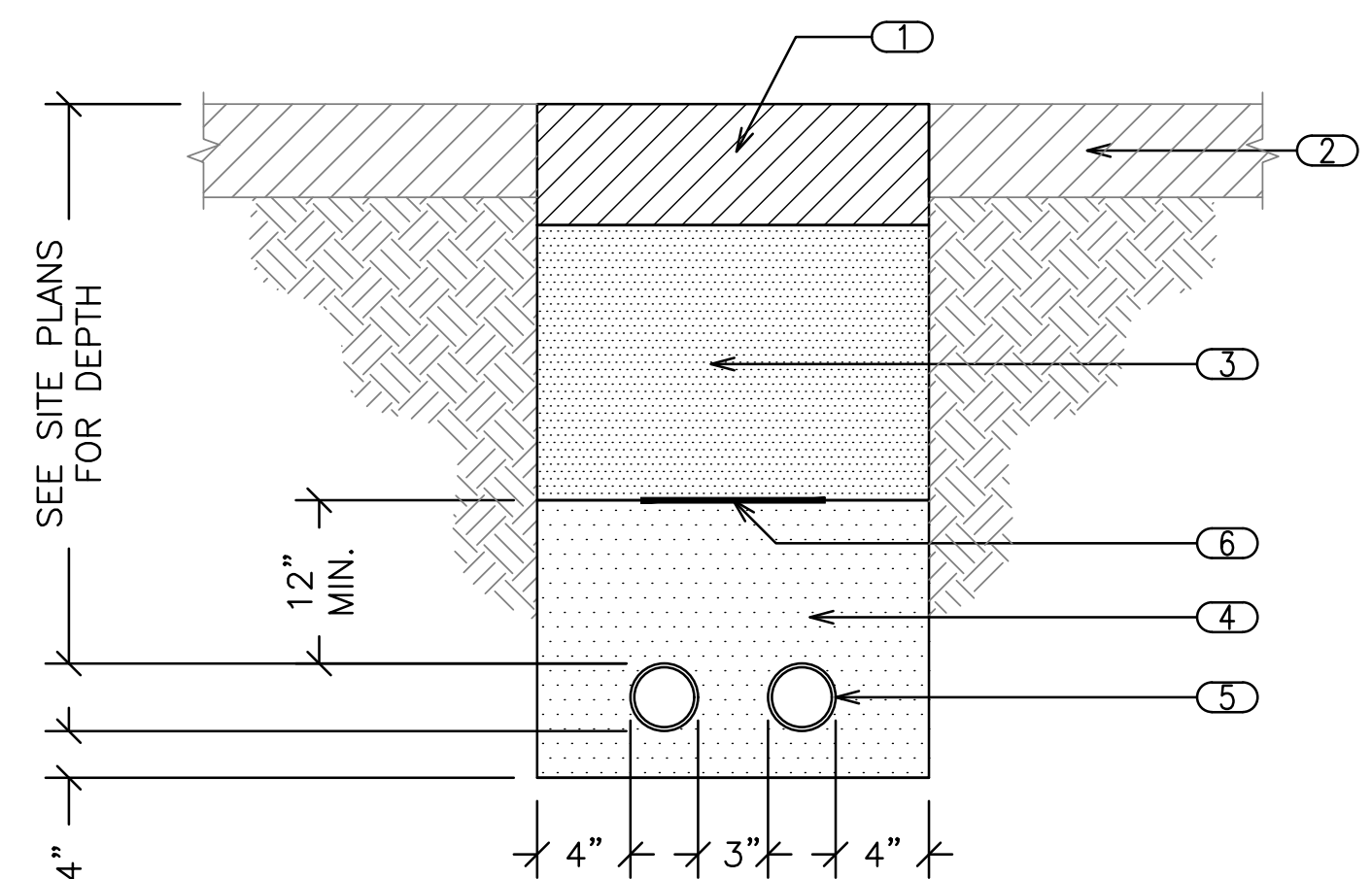
SERVICE PEDESTAL "A" OR "B" DETAIL

NO SCALE ①



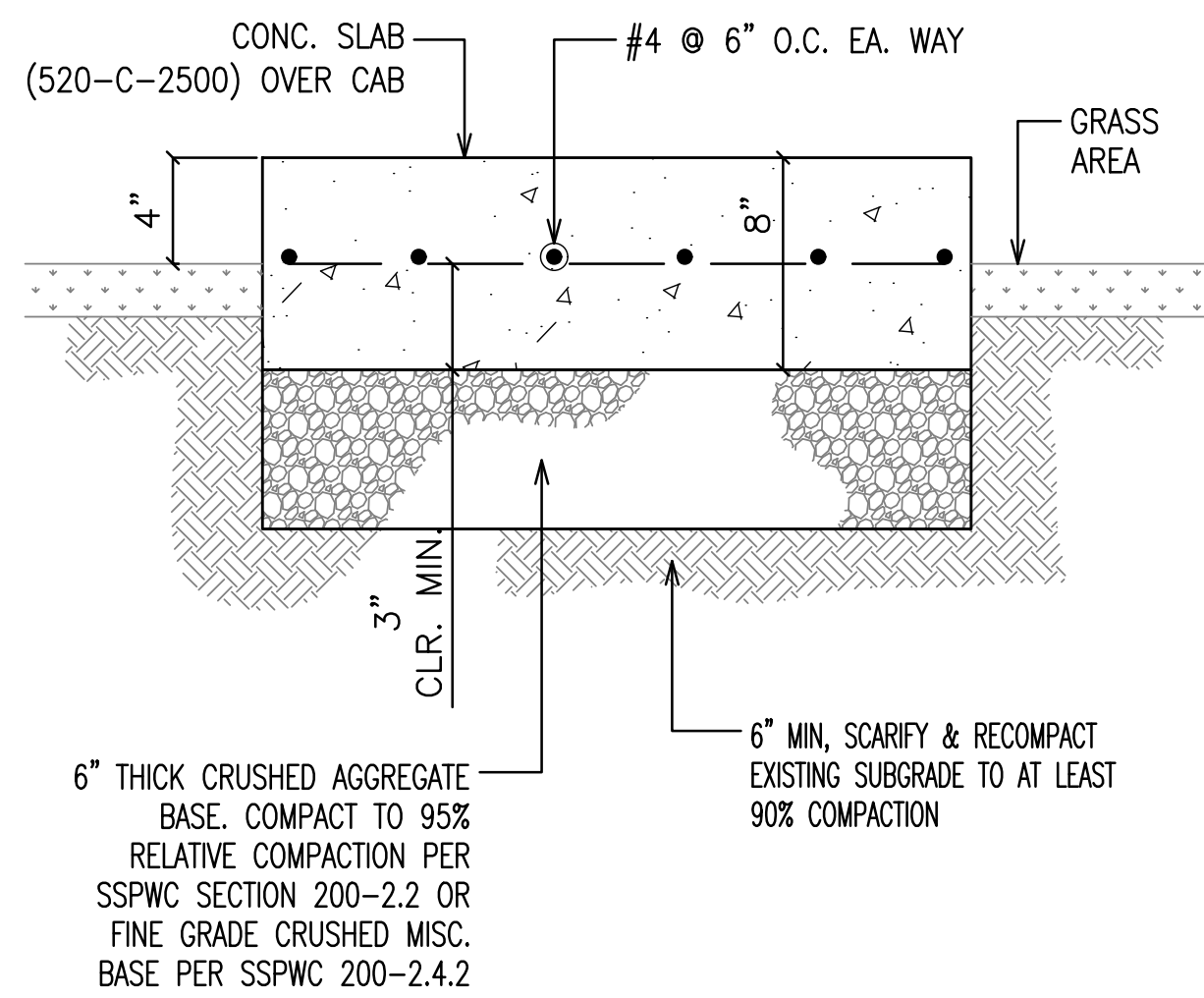
PROTECTIVE BOLLARD DETAIL

NO SCALE ⑦



BRANCH CIRCUIT TRENCH DETAIL

NO SCALE ⑤



EQUIPMENT PAD DETAIL

NO SCALE ③

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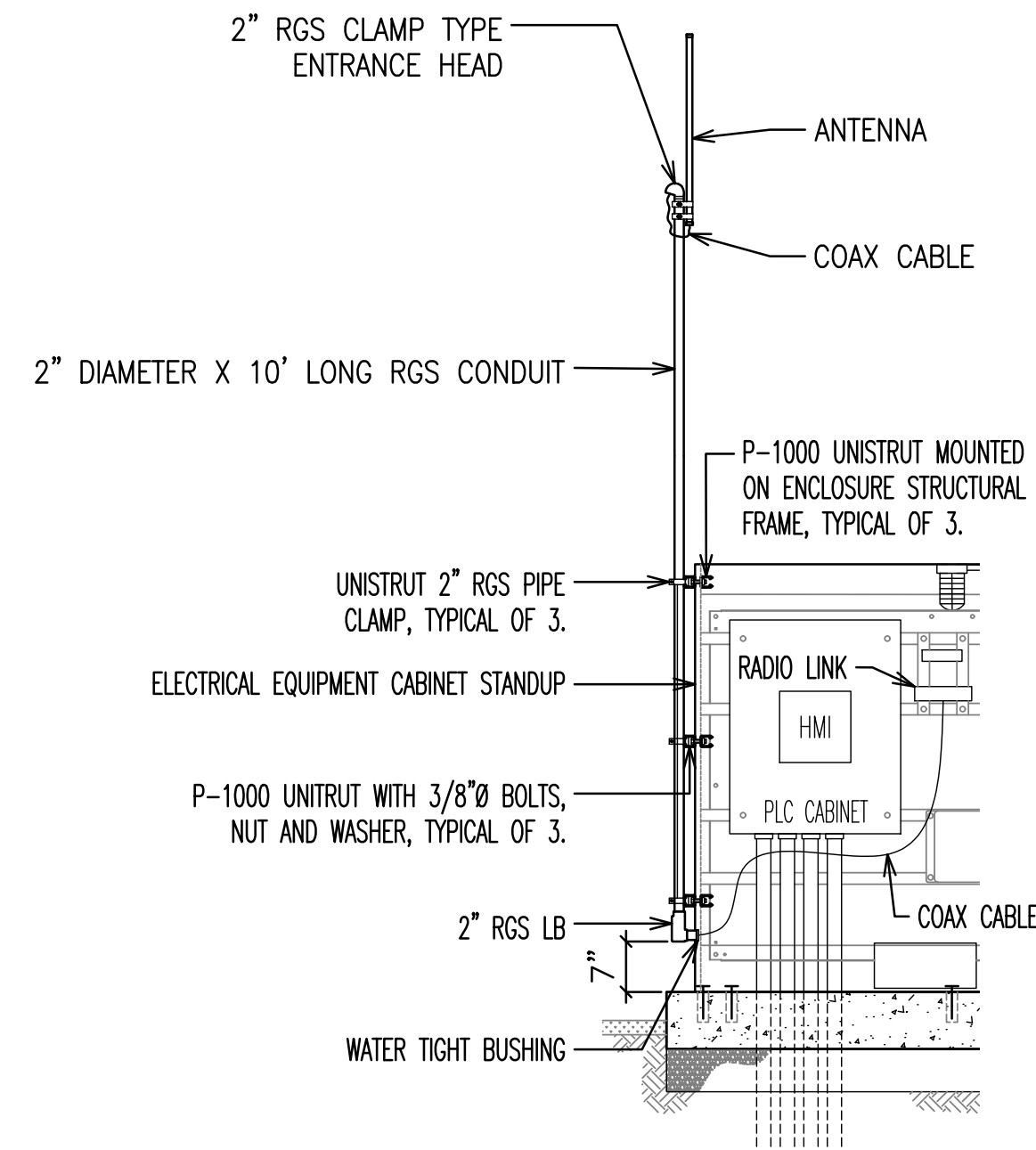
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GENERAL NOTES:

A. SEE PLAN E10 FOR ANTENNA AND COAX CABLE DESCRIPTION.



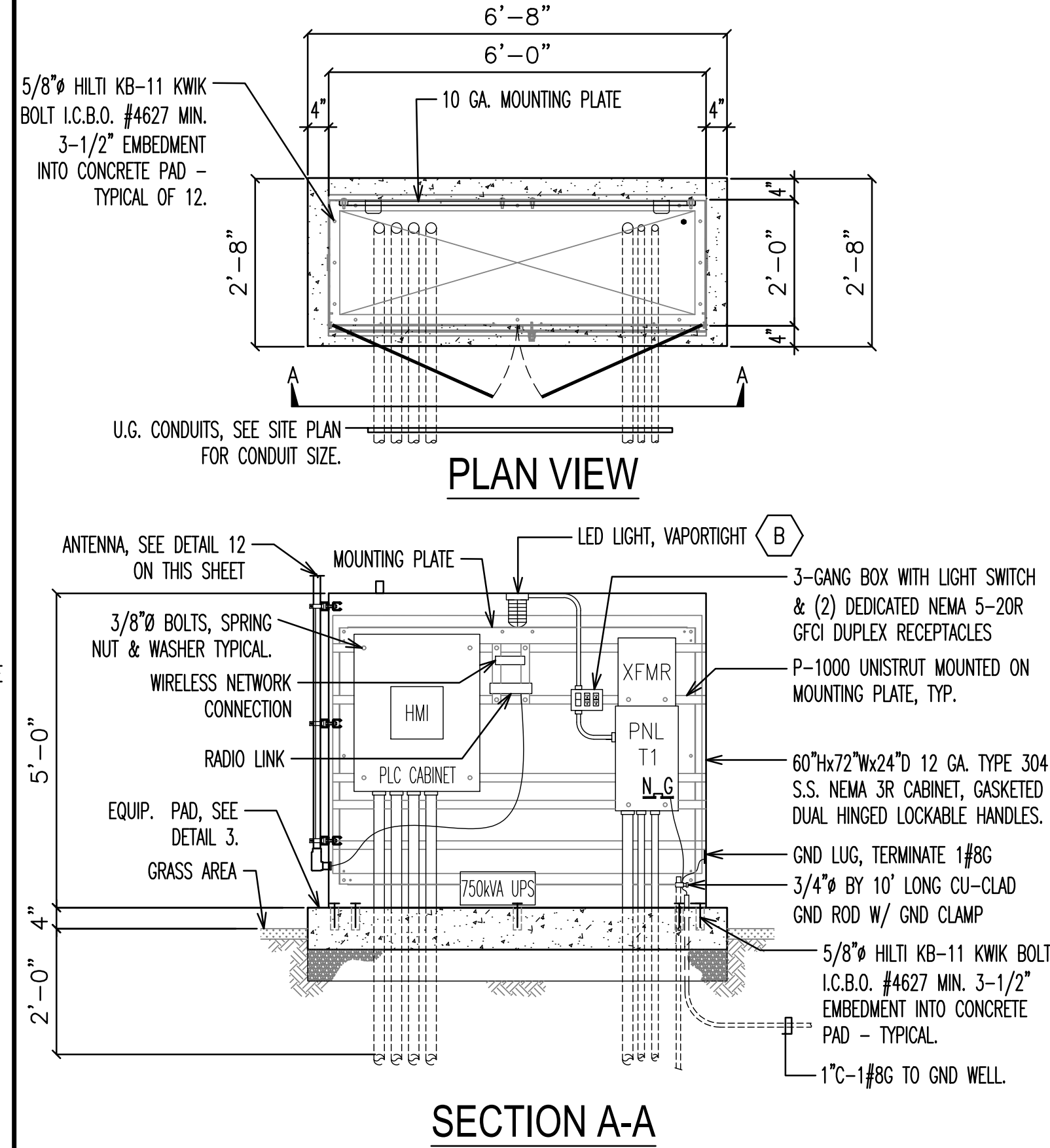
ANTENNA MAST DETAIL

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12

GENERAL NOTES:

A. SEE PLAN E10 FOR PLC & TELEMETRY REQUIREMENTS AND 750VA UPS DESCRIPTION.



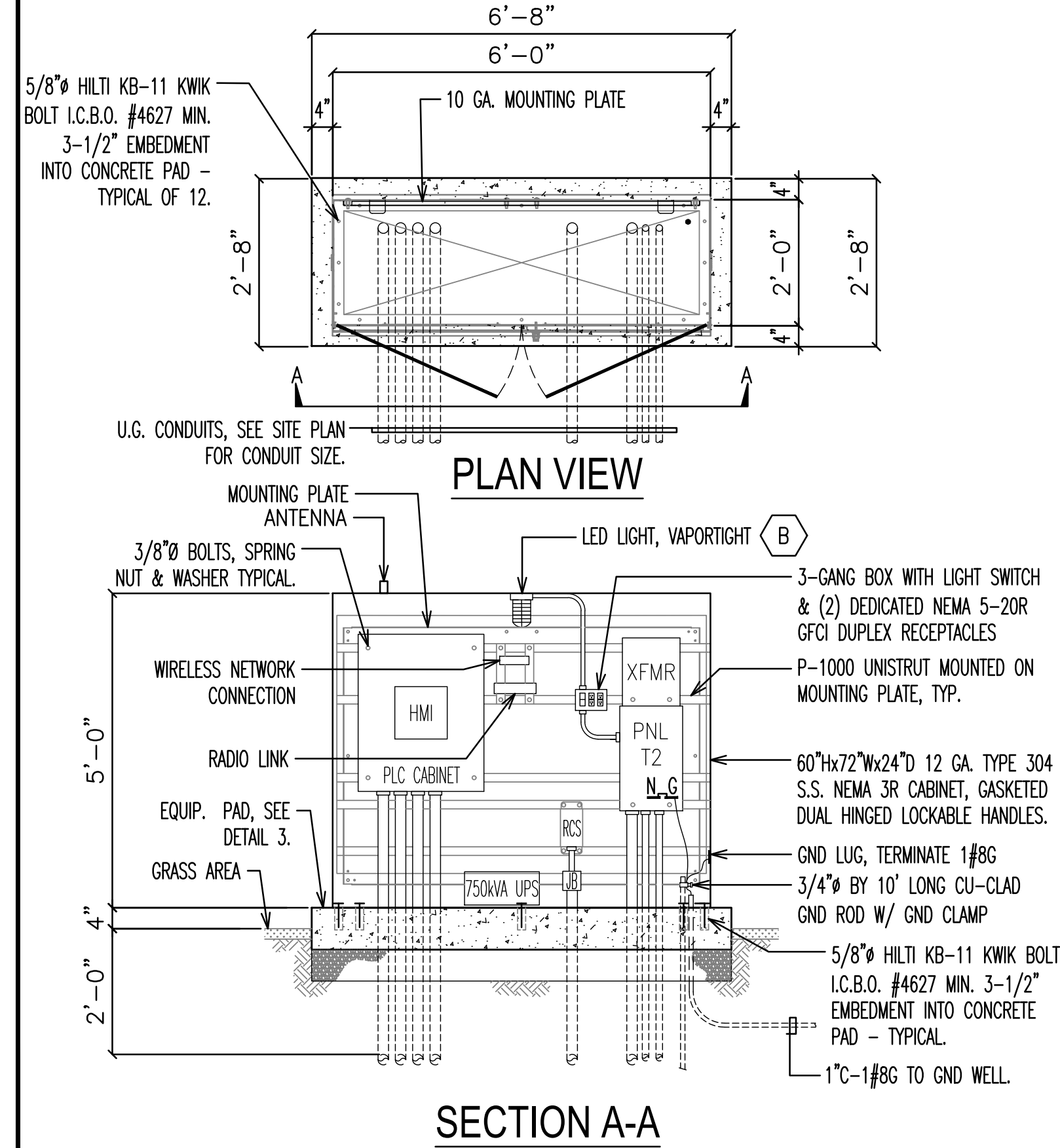
ELECTRICAL EQUIPMENT STAND-UP CABINET DETAIL

NO SCALE

11

GENERAL NOTES:

A. SEE PLAN E10 FOR PLC & TELEMETRY REQUIREMENTS AND 750VA UPS DESCRIPTION.  
B. SEE PLAN M-9 FOR EMO RCS CONTROLLER DETAIL.



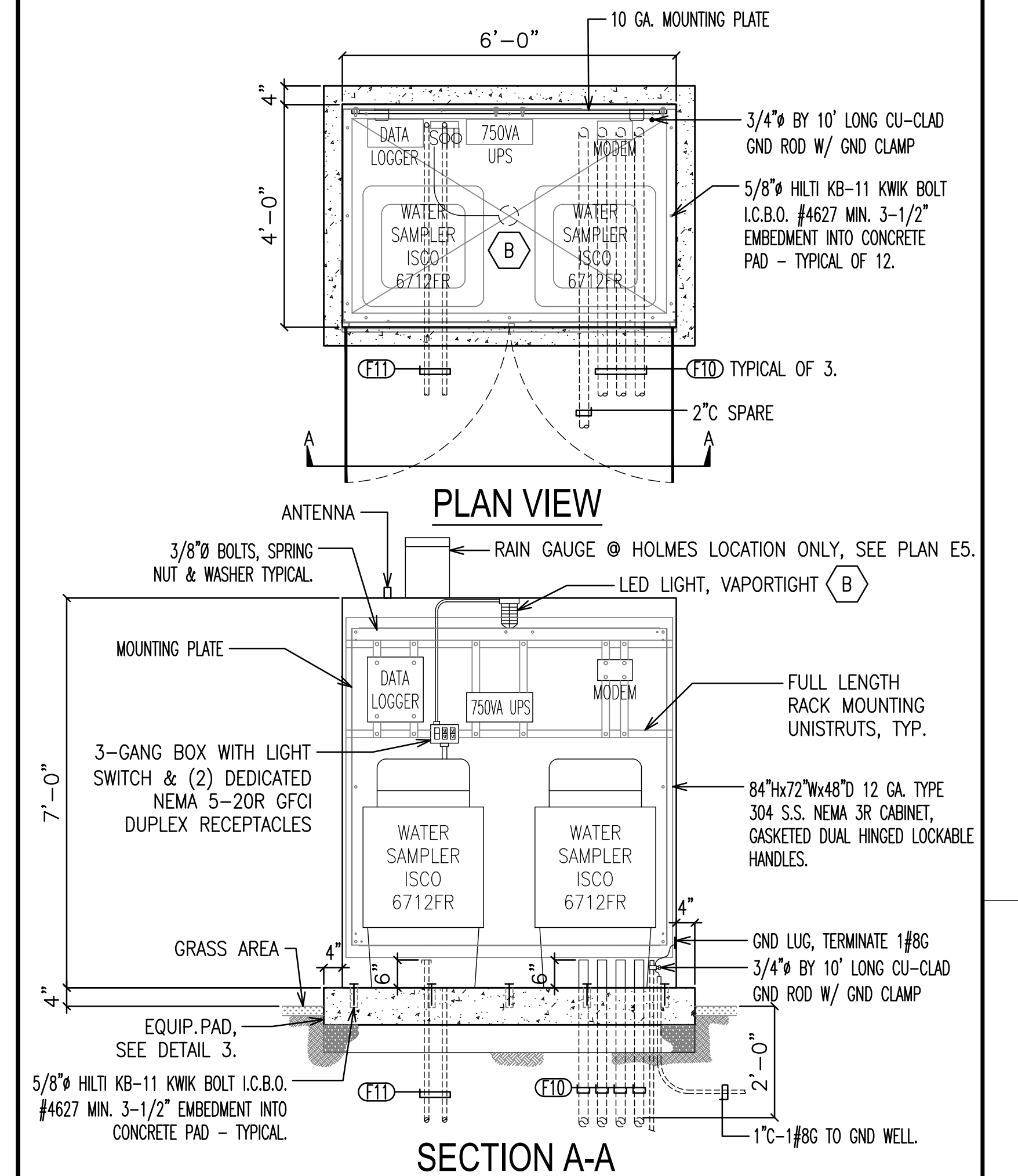
ELECTRICAL EQUIPMENT STAND-UP CABINET DETAIL

NO SCALE

10

GENERAL NOTES:

A. SEE "MONITORING WELL EQUIPMENT AND ACCESSORIES" TABLE ON PLAN M-3 FOR WATER SAMPLING EQUIPMENT DESCRIPTIONS.  
B. SEE "EQUIPMENT BILL OF MATERIALS" ITEM NO. 19 ON PLAN E10 FOR 750VA UPS DESCRIPTION.



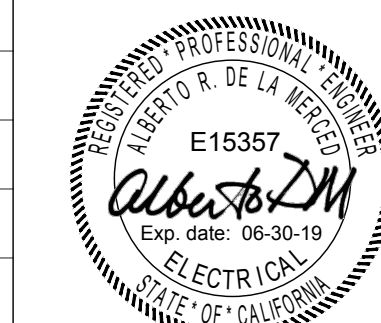
MONITORING EQPT. CABINET DETAIL

NO SCALE

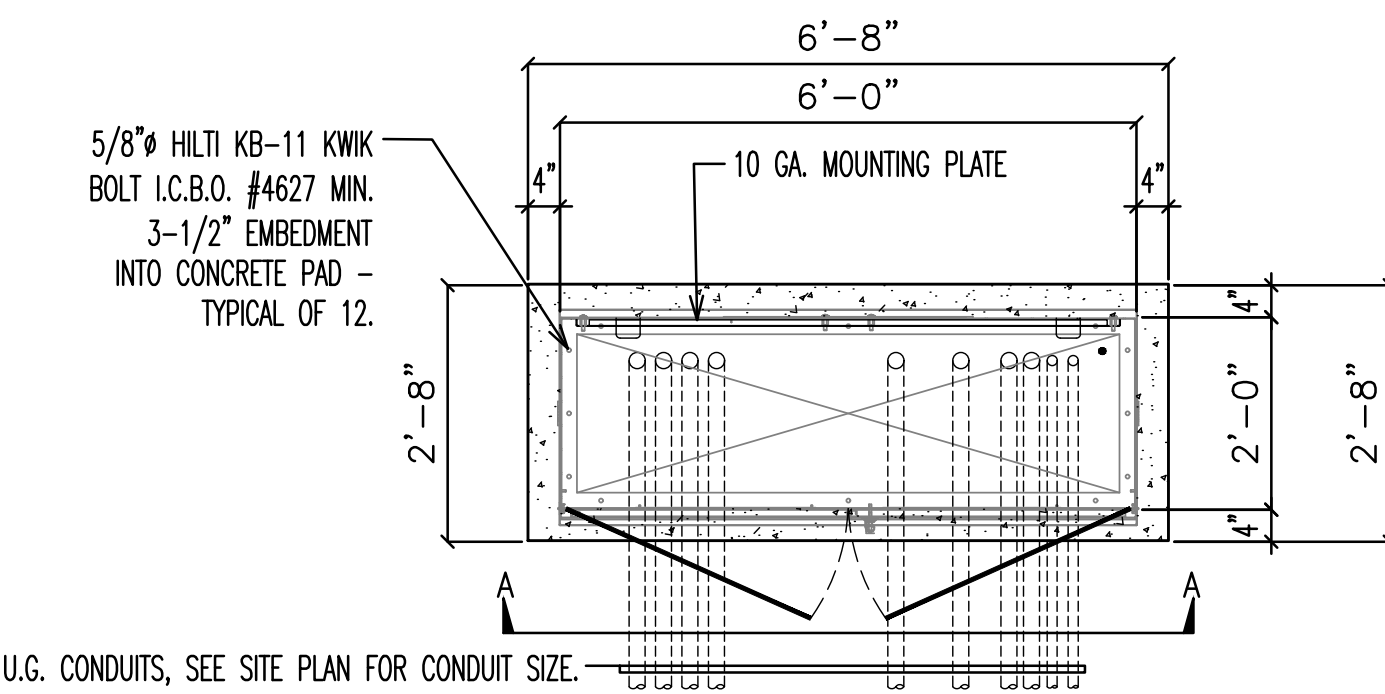
9

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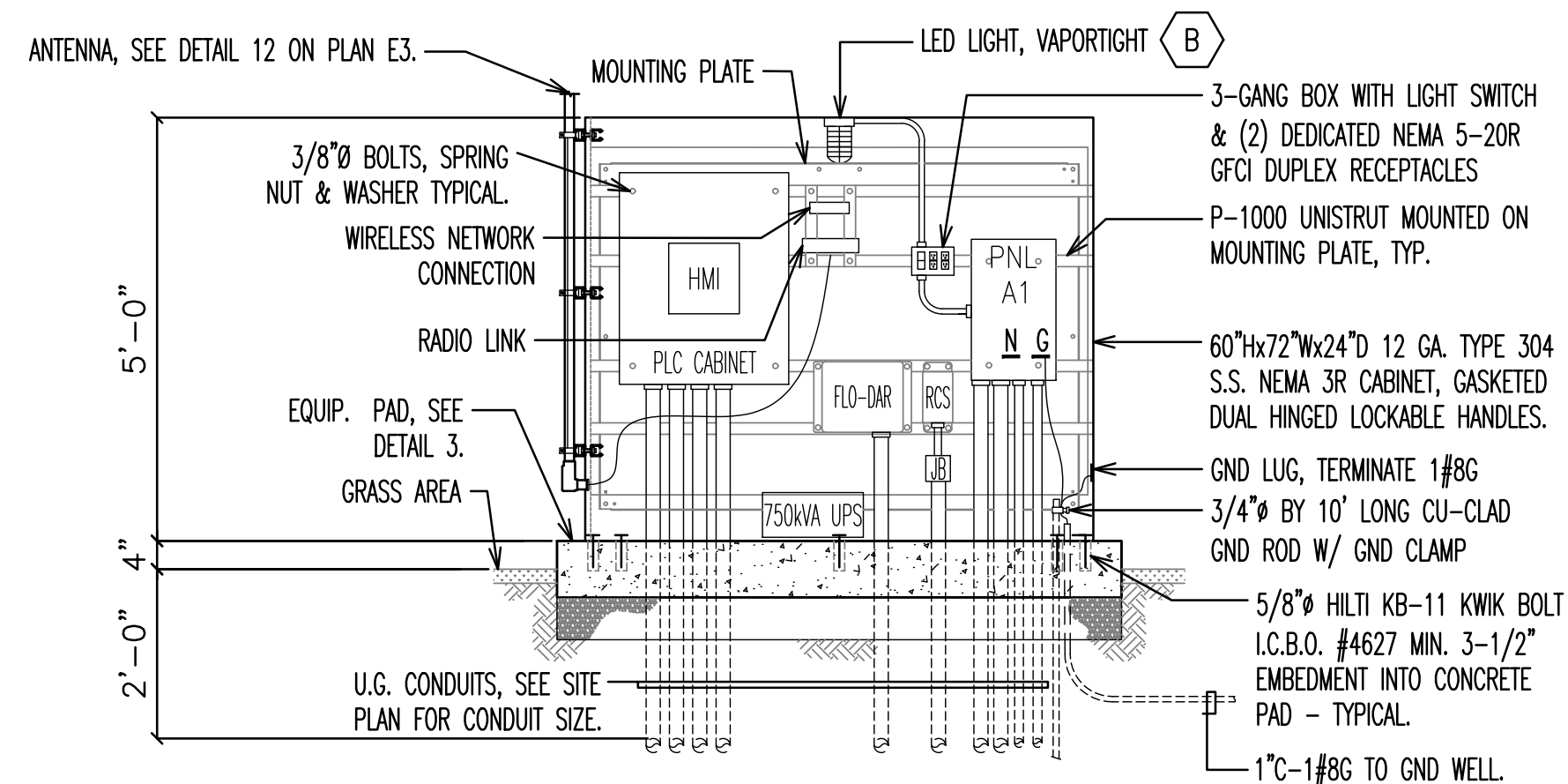
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COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE PROJECT  
DETAILS  
E3  
PIN WMD000109 PCA F21812149 SHEET 53 OF 63



PLAN VIEW

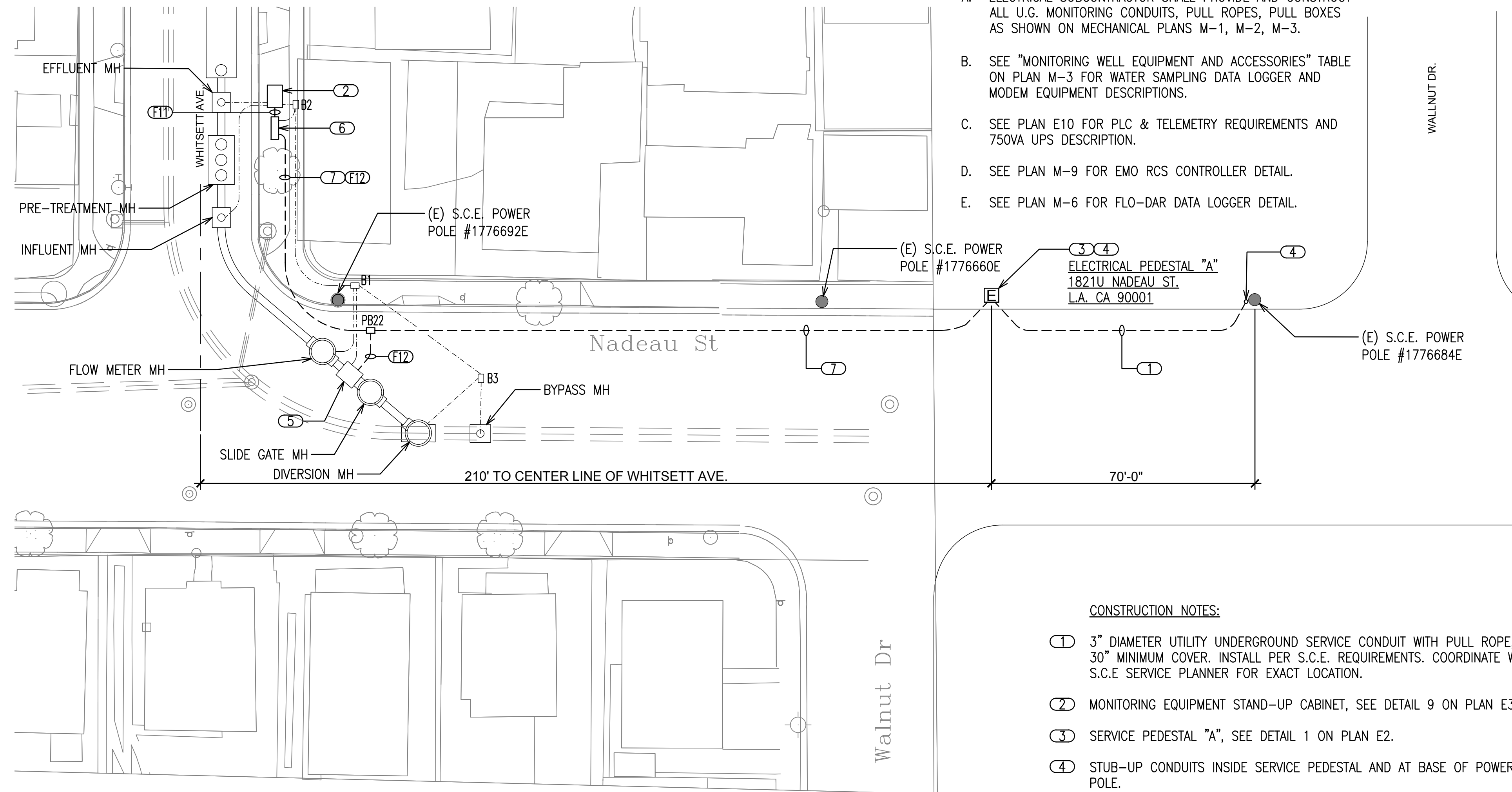


SECTION A-A

ELECTRICAL EQUIPMENT STAND-UP CABINET DETAIL

NO SCALE

13



GENERAL NOTES:

- A. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE AND CONSTRUCT ALL U.G. MONITORING CONDUITS, PULL ROPES, PULL BOXES AS SHOWN ON MECHANICAL PLANS M-1, M-2, M-3.
- B. SEE "MONITORING WELL EQUIPMENT AND ACCESSORIES" TABLE ON PLAN M-3 FOR WATER SAMPLING DATA LOGGER AND MODEM EQUIPMENT DESCRIPTIONS.
- C. SEE PLAN E10 FOR PLC & TELEMETRY REQUIREMENTS AND 750VA UPS DESCRIPTION.
- D. SEE PLAN M-9 FOR EMO RCS CONTROLLER DETAIL.
- E. SEE PLAN M-6 FOR FLO-DAR DATA LOGGER DETAIL.

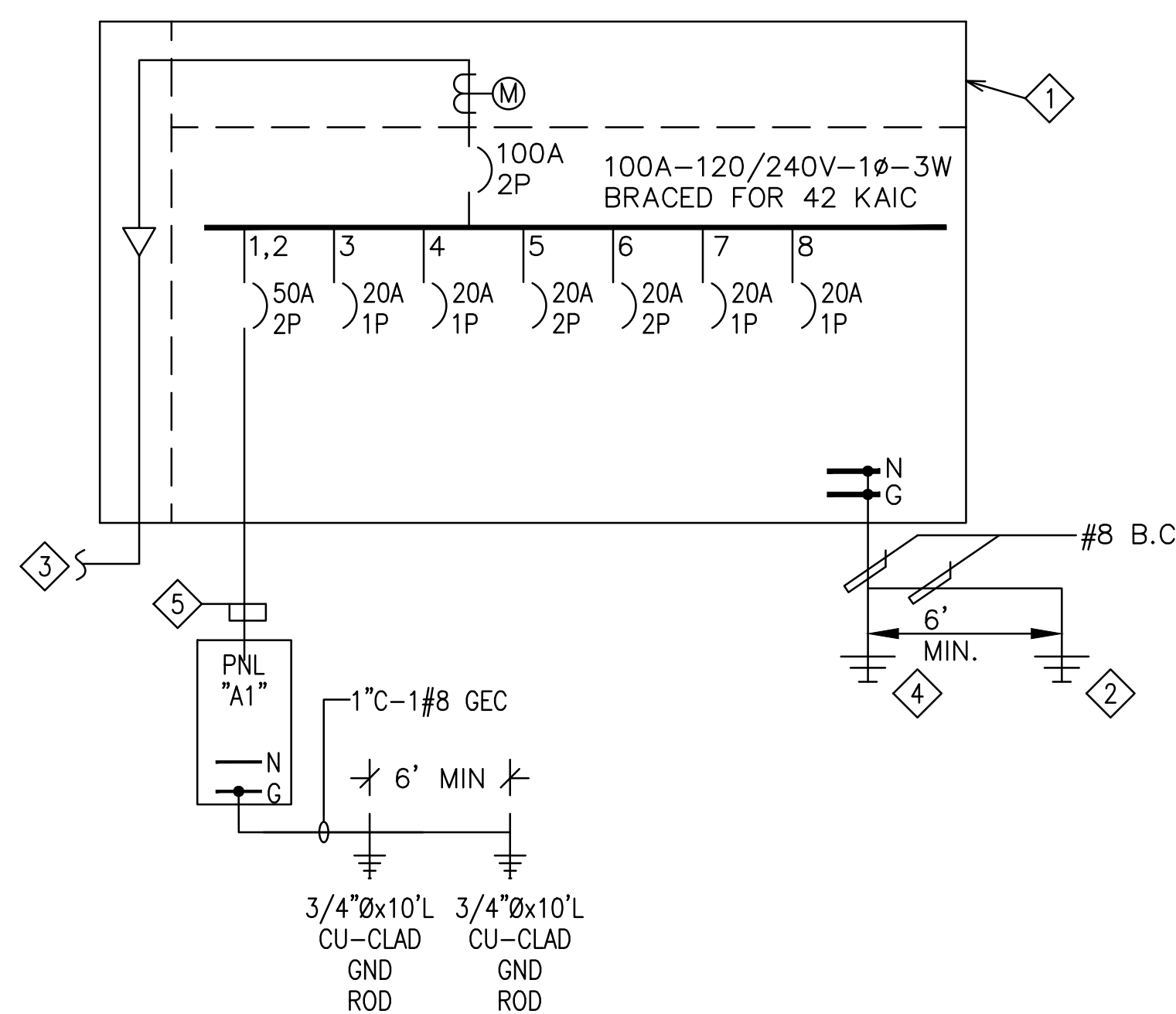
CONSTRUCTION NOTES:

- 1 3" DIAMETER UTILITY UNDERGROUND SERVICE CONDUIT WITH PULL ROPE, 30" MINIMUM COVER. INSTALL PER S.C.E. REQUIREMENTS. COORDINATE WITH S.C.E. SERVICE PLANNER FOR EXACT LOCATION.
- 2 MONITORING EQUIPMENT STAND-UP CABINET, SEE DETAIL 9 ON PLAN E3.
- 3 SERVICE PEDESTAL "A", SEE DETAIL 1 ON PLAN E2.
- 4 STUB-UP CONDUITS INSIDE SERVICE PEDESTAL AND AT BASE OF POWER POLE.
- 5 ACTUATOR VAULT.
- 6 ELECTRICAL EQUIPMENT STAND-UP CABINET, SEE DETAIL ON THIS SHEET.
- 7 2"C-3#3 & 1#3G, 24"B.G.

PANEL: SERVICE PEDESTAL "A"		PANEL RATING: 100A-120/240V-1Ø-3W	
ENCLOSURE: NEMA 3R		MAINS: 100A-2P	
MANUFACTURER: MYERS, STRONG BOX		BUS/AIC: 100A/42 KAIC	
CIRCUIT No.	TRIP TYPE	PHASES	DESCRIPTION
1	G 50 2	1317	PNL "A1"
2	G 20 1	732	UPS
3	G 20 1		CONVENIENCE GFCI DUPLEX RECEPTACLE
4	G 20 1		INTERIOR CABINET LED LIGHT FIXTURE
5	G 20 1		SPARE
6	G 20 1		SPARE
7	G 20 1		SPARE
8	G 20 1		SPARE
TOTAL CONNECTED VA PHASE		1,317	732
L-LOAD VA =			
G-LOAD VA =		2,049	
R-LOAD VA =			
M-LOAD VA =			
OTHER LOAD VA =			
CONNECTED VA =		2,049	
LOAD TYPE:			
L = (L.C.L.) CONTINUOUS LOAD			
G = GENERAL LOADS			
R = RECEPTACLE LOADS			
M = MOTOR LOADS			
L.C.L. @ 125% VA =			
GENERAL LOAD @ 100% VA =		2,049	
RECEPT. (> 10 KVA @ 50%) VA =		0	
RECEPT. (<= 10 KVA @ 100%) VA =			
MOTOR LOAD @ 100% VA =			
OTHER LOAD @ 100% VA =			
TOTAL DEMAND VA =		2,049.0	
DEMAND AMPS =		8.5	

\* NEW C.B. SHALL HAVE THE CAPABILITY TO BE LOCKED IN THE OPEN POSITION

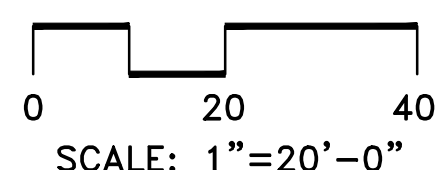
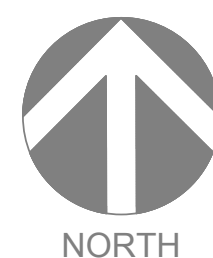
PANEL: PNL "A1"		PANEL RATING: 50A-120/240V-1Ø-3W	
ENCLOSURE: NEMA 3R		MAINS: 50A-2P	
MANUFACTURER: SQ'D, EATON, G.E.		BUS/AIC: 100A/42 KAIC	
CIRCUIT No.	TRIP TYPE	PHASES	DESCRIPTION
1	G 20 1	750	UPS
2	G 20 1	180	CONVENIENCE GFCI DUPLEX RECEPTACLE
3	G 15 1	15	INTERIOR CABINET LED LIGHT FIXTURE
4	G 20 1		SPARE
5	G 15 2	552	SLIDE GATE ACTUATOR
6	G 20 1	552	SPARE
7	G 20 1		SPARE
8	G 20 1		SPARE
TOTAL CONNECTED VA PHASE		1,317	732
L-LOAD VA =			
G-LOAD VA =		2,049	
R-LOAD VA =			
M-LOAD VA =			
OTHER LOAD VA =			
CONNECTED VA =		2,049	
LOAD TYPE:			
L = (L.C.L.) CONTINUOUS LOAD			
G = GENERAL LOADS			
R = RECEPTACLE LOADS			
M = MOTOR LOADS			
L.C.L. @ 125% VA =			
GENERAL LOAD @ 100% VA =		2,049	
RECEPT. (> 10 KVA @ 50%) VA =		0	
RECEPT. (<= 10 KVA @ 100%) VA =			
MOTOR LOAD @ 100% VA =			
OTHER LOAD @ 100% VA =			
TOTAL DEMAND VA =		2,049	
DEMAND AMPS =		8.5	



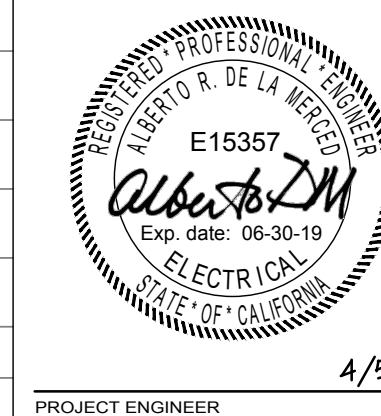
SERVICE PEDESTAL "A" ONE-LINE DIAGRAM

SPECIFIC NOTES:

- 1 METERED SERVICE PEDESTAL, SEE DETAIL. INSTALL NEW UTILITY SERVICE IN ACCORDANCE WITH UTILITY & NEC REQUIREMENTS. INSTALL 10' CU-CLAD GROUND ROD AT NEW SERVICE. BOND SERVICE ENCLOSURE & NEUTRAL TO GROUND ROD WITH #8 AWG COPPER.
- 2 GROUND WELL, SEE DETAIL, 3/4"Ø x 10' CU-CLAD GROUND ROD. GROUND SYSTEM SHALL BE INSTALLED PER NEC 250-50.
- 3 UNDERGROUND UTILITY COMPANY SERVICE FEEDER.
- 4 3/4"Ø x 10' CU-CLAD GROUND ROD IN PEDESTAL.
- 5 U.G. BRANCH CIRCUITS, SEE SITE PLAN FOR NUMBER OF CONDUITS AND WIRE SIZES.



DATE	MK	DESCRIPTION
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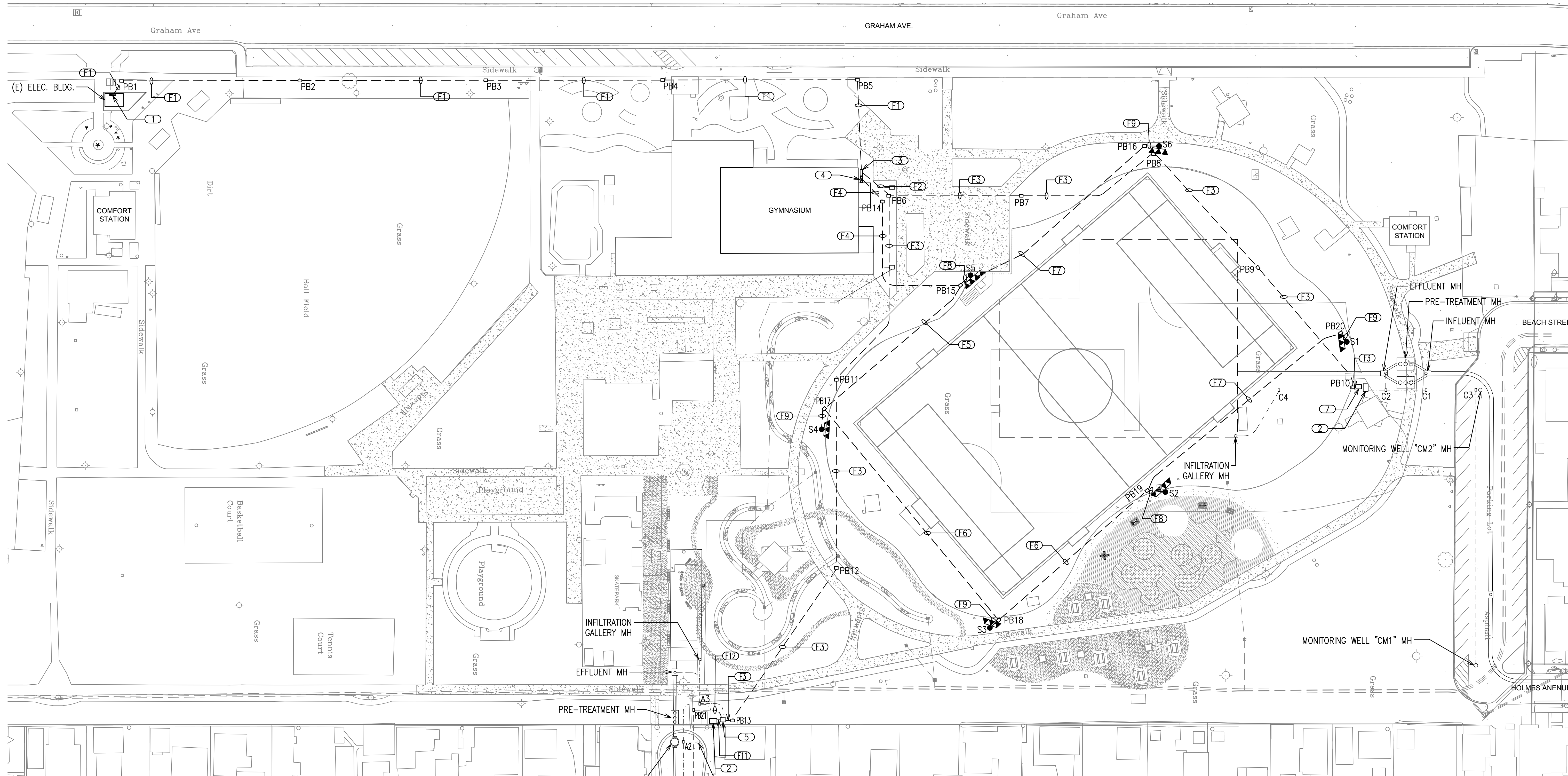
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE PROJECT

SITE PLAN  
NADEAU ST. & WHITSETT AVE., ONE-LINE DIAGRAM,  
PANEL SCHEDULE, NOTES

E4

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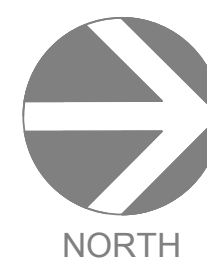


**CONSTRUCTION NOTES:**

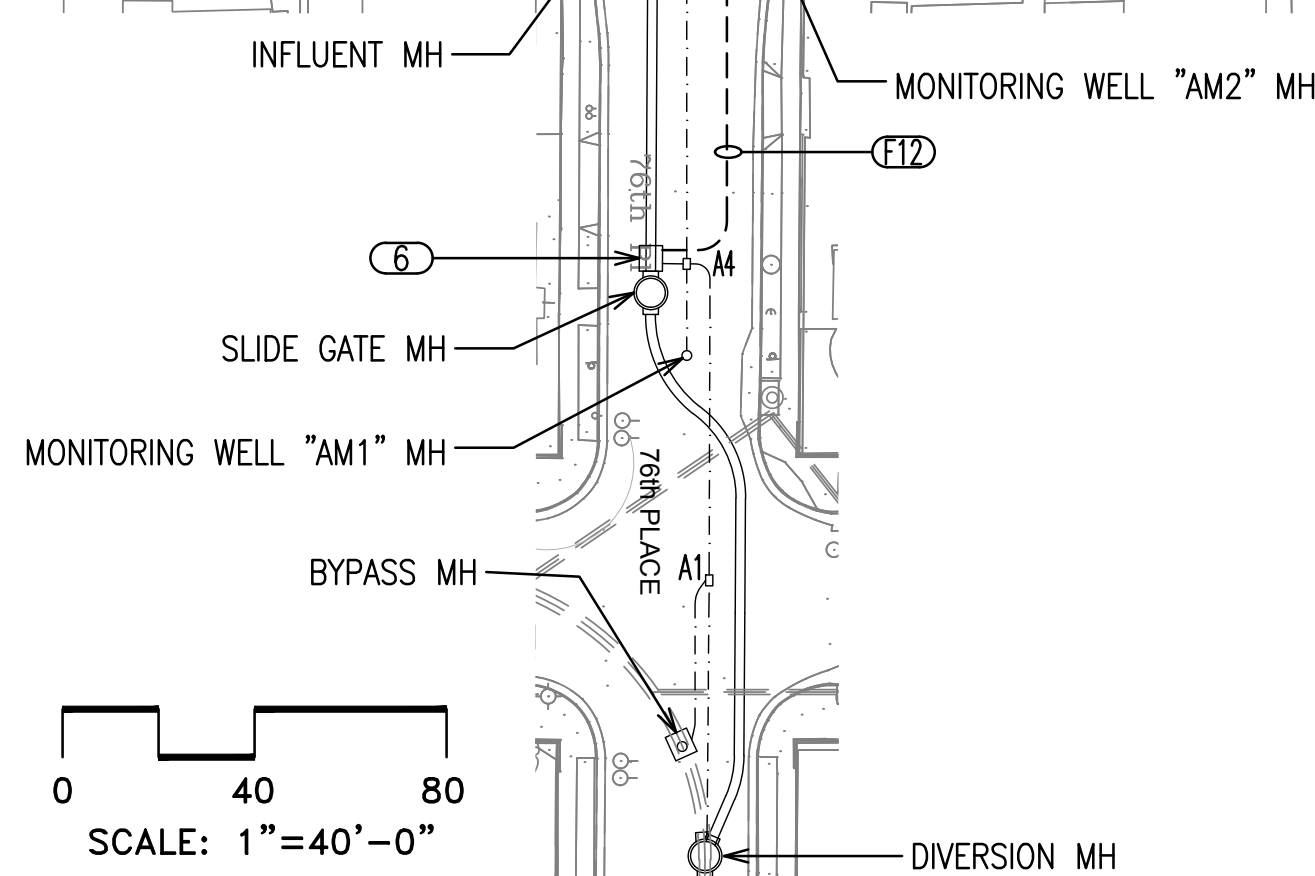
- ① EXISTING METER/MAIN 400A-480Y/277V-3Ø SWITCHBOARD "A".
- ② MONITORING EQUIPMENT STANDUP CABINET, SEE DETAIL 9 ON PLAN E3.
- ③ INSTALL A NEW PANEL BOARD "B". SEE DETAIL 6 ON PLAN E2.
- ④ SOCCER FIELD SPORTS LIGHTING CONTROLLER "LCP". SEE DETAIL 6 ON PLAN E2.
- ⑤ ELECTRICAL STANDUP CABINET, SEE DETAIL 10 ON PLAN E3.
- ⑥ ACTUATOR VAULT.
- ⑦ ELECTRICAL STANDUP CABINET, SEE DETAIL 11 ON PLAN E3.

**GENERAL NOTES:**

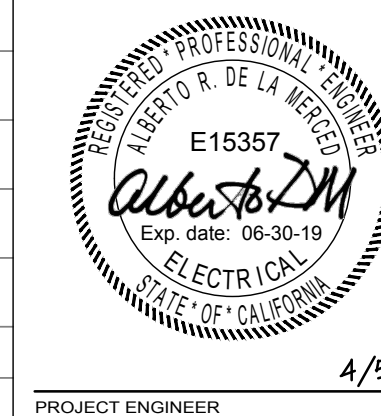
- A. ELECTRICAL SUBCONTRACTOR SHALL FURNISH AND CONSTRUCT ALL U.G. MONITORING CONDUITS, PULL ROPES, PULL BOXES AS SHOWN ON MECHANICAL PLANS M-1, M-2, M-3.



0 40 80  
SCALE: 1"=40'-0"



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COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE PROJECT**

**FRANKLIN D. ROOSEVELT PARK  
SITE PLAN, NOTES**

E5

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DRAFTER ADM    DESIGNER ADM    CHECKER ADM    CAD PROJECT FILE NAME    REVIEWED BY    DATE



# LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	TOTAL WATTS	LAMP TYPE	MOUNTING
A	26"x27.5"x21" LED SPORTLIGHTING, 480V-1Ø LUMIARE SHALL BE OR AGENCY APPROVED EQUAL TO MUSCO CAT. No. TLC-LED-1150	1150	LED	POLE MTD @ +70' AFG
B	5-9/16"x10-5/8" LED VAPORTIGHT CEILING MOUNT, 120V-1Ø LUMIARE SHALL BE OR AGENCY APPROVED EQUAL TO LITHONIA CAT. No. OLVTCM	15	LED	CLG. MT. INSIDE STAND-UP CABINET

FEEDER & BRANCH CKT SCHEDULE			
IDENTIFICATION	CONDUIT	CONDUCTORS	REMARKS
(F1)	2 SETS, 3" C, 24" B.G.	4#4/0 & 1#4G/SET	PNL "B"
(F2)	2 SETS, 2" C, 24" B.G.	2#1 & 1#8G/SET	"T1" & "T2"
(F3)	2" C, 24" B.G.	2#1 & 1#8G	"T1" & "T2"
(F4)	4 SETS, 1-1/4" C, 24" B.G.	2#6 & 1#6G + 2#12/SET	U.G. LIGHT CKT(S)
(F5)	1-1/4" C, 24" B.G. (SPARE)	PULL STRING	
(F6)	3 SETS, 1-1/4" C, 24" B.G.	2#6 & 1#6G + 2#12/SET	U.G. LIGHT CKT(S)
(F7)	1-1/4" C, 24" B.G. (SPARE)	PULL STRING	
(F8)	1-1/4" C, 24" B.G.	2#6 & 1#6G + 2#12	U.G. LIGHT CKT(S)
(F9)	1-1/4" C, 24" B.G.	4#6 & 1#6G + 2#12	PB TO LIGHT POLES S2, S5
(F10)	1-1/4" C, 24" B.G.	2#6 & 1#6G + 2#12	PB TO LIGHT POLES S1, S3, S4, S6
(F11)	2 SETS, 3/4" C, 24" B.G.	6#10 & 1#10G & 1 SPARE W/PULL STRING	CKTS TO MONITORING EQUIPMENT CABINET
(F12)	2" C, 24" B.G.	2#8 & 1#8G	SLIDE GATE ACTUATOR
(F13)	2" C, 24" B.G.	CONTROL WIRES	SLIDE GATE "RCS"

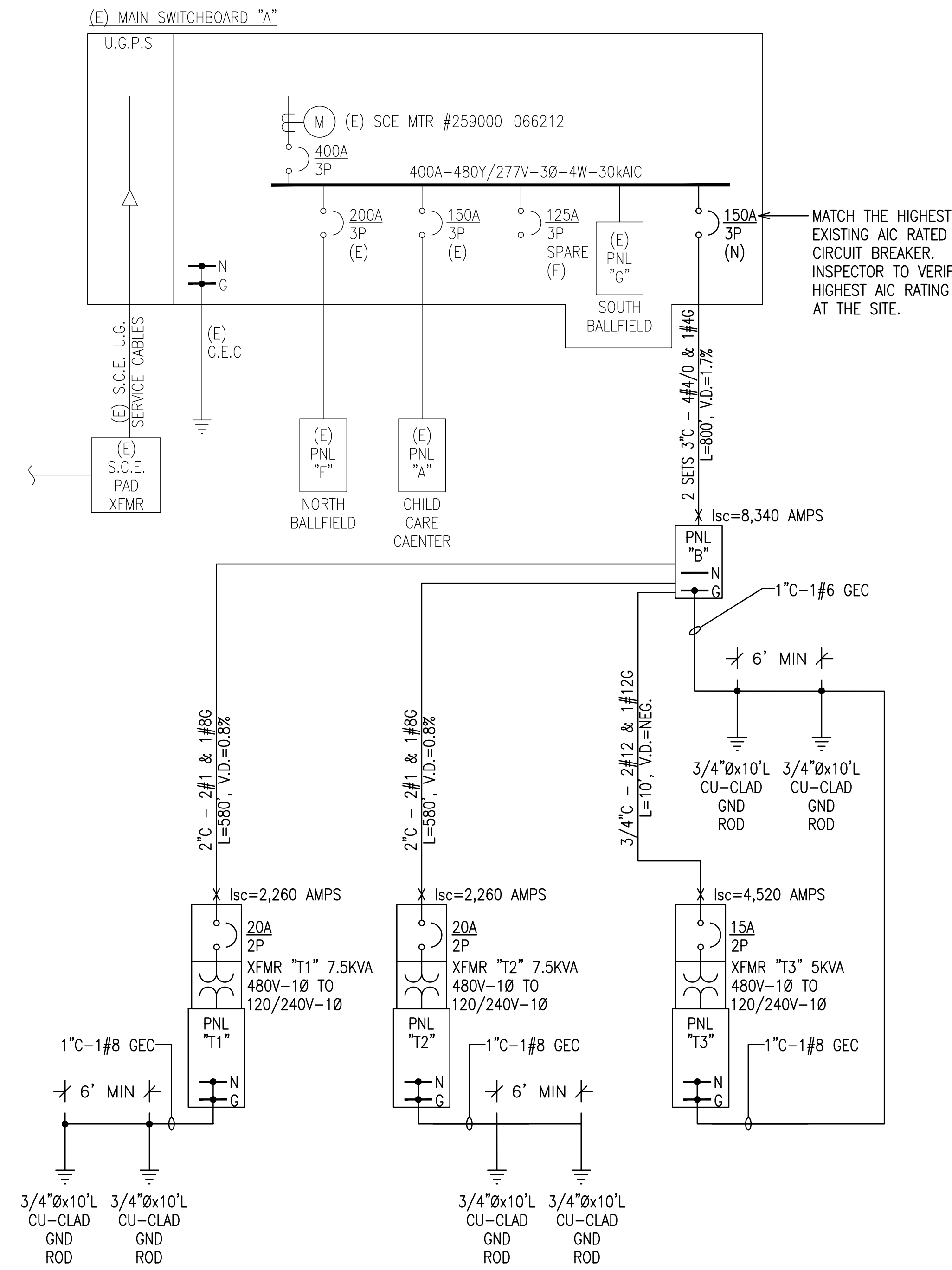
PANEL:		"B"		PANEL RATING: 150A-480V/277V-3Ø-4W								
ENCLOSURE:		NEMA 3R		MAINS: 150A-3P								
MANUFACTURER:		SQ'D, EATON, G.E.		BUS/AIC: 200A SOLID COPPER/22KAIC								
CIRCUIT No.	TYPE	TRIP	POLE	LITE	RECEPT	MISC	PHASES AØ VA	BØ VA	CØ VA	DESCRIPTION		
1	L	30	2	5			2875			SOCCER FIELD LIGHT POLES S1 & S2		
3	L	30	2	5			2875			ZONE 2		
5	L	30	2	5			2875			SOCCER FIELD LIGHT POLES S5 & S6		
7	L	30	2	5			2875			ZONE 2		
9	L	30	2	5			2875			SOCCER FIELD LIGHT POLES S2 & S3		
11	L									ZONE 1		
13	L									PROVISION		
15	L	30	2	5			2875			SOCCER FIELD LIGHT POLES S4 & S5		
17	L									ZONE 1		
19										PROVISION		
21										PROVISION		
23										PROVISION		
25										PROVISION		
27										PROVISION		
29										PROVISION		
31										PROVISION		
33										PROVISION		
35										PROVISION		
37										PROVISION		
39										PROVISION		
41										PROVISION		
2	G	20	2			1	3750			TRANSFORMER "T1"		
4	G							3750				
6	G	20	2			1		3750		TRANSFORMER "T2"		
8	G								3750			
10	G	15	2			1		1500		TRANSFORMER "T3"		
12	G								1500			
14										PROVISION		
16										PROVISION		
18										PROVISION		
20										PROVISION		
22										PROVISION		
24										PROVISION		
26										PROVISION		
28										PROVISION		
30										PROVISION		
32										PROVISION		
34										PROVISION		
36										PROVISION		
38										PROVISION		
40										PROVISION		
42										PROVISION		
TOTAL CONNECTED VA PHASE										13,250	13,875	13,875
LOAD TYPE:												
L-LOAD VA =										23,000	L.C.L. @ 125% VA =	28,750
G-LOAD VA =										18,000	GENERAL LOAD @ 100% VA =	18,000
R-LOAD VA =										-	RECEPT. (> 10 KVA @ 50%) VA =	0
M-LOAD VA =										-	RECEPT. (<= 10 KVA @ 100%) VA =	-
OTHER LOAD VA =										-	MOTOR LOAD @ 100% VA =	-
CONNECTED VA =										41,000	OTHER LOAD @ 100% VA =	-
TOTAL DEMAND VA =												46,750
DEMAND AMPS =												56.3

PANEL:		"T1"		PANEL RATING: 40A-120/240V-1Ø-3W								
ENCLOSURE:		NEMA 3R		MAINS: 40A-2P								
MANUFACTURER:		SQ'D, EATON, G.E.		BUS/AIC: 100A/10 KAIC								
CIRCUIT No.	TYPE	TRIP	POLE	LITE	RECEPT	MISC	PHASES AØ VA	BØ VA	DESCRIPTION			
1	R	20	1				750		UPS			
2									PROVISION			
3									PROVISION			
4									PROVISION			
5									PROVISION			
6	L	15	1	1			15		INTERIOR CABINET LED LIGHT FIXTURE			
7	R	20	1			1		180	CONVENIENCE GFI DUPLEX RECEPTACLE			
8									SPARE			
9									PROVISION			
10									PROVISION			
TOTAL CONNECTED VA PHASE										765	180	
LOAD TYPE:												
L-LOAD VA =										15	L.C.L. @ 125% VA =	19
G-LOAD VA =										-	GENERAL LOAD @ 100% VA =	-
R-LOAD VA =										930	RECEPT. (> 10 KVA @ 50%) VA =	0
M-LOAD VA =										-	RECEPT. (<= 10 KVA @ 100%) VA =	930
OTHER LOAD VA =										-	MOTOR LOAD @ 100% VA =	-
CONNECTED VA =										945	OTHER LOAD @ 100% VA =	-
TOTAL DEMAND VA =												948.8
DEMAND AMPS =												4.0

PANEL:		"T2"		PANEL RATING: 40A-120/240V-1Ø-3W								
ENCLOSURE:		NEMA 3R		MAINS: 40A-2P								
MANUFACTURER:		SQ'D, EATON, G.E.		BUS/AIC: 100A/10 KAIC								
CIRCUIT No.	TYPE	TRIP	POLE	LITE	RECEPT	MISC	PHASES AØ VA	BØ VA	DESCRIPTION			
1	R	20	1			1	750		UPS			
2	M	15	2					552	SLIDE GATE ACTUATOR			
3	M							552				
4									PROVISION			
5									PROVISION			
6	L	15	1	1			15		INTERIOR CABINET LED LIGHT FIXTURE			
7	R	20	1			1		180	CONVENIENCE GFI DUPLEX RECEPTACLE			
8									SPARE			
9									PROVISION			
10									PROVISION			
TOTAL CONNECTED VA PHASE										1,317	732	
LOAD TYPE:												
L-LOAD VA =										15	L.C.L. @ 125% VA =	19
G-LOAD VA =										-	GENERAL LOAD @ 100% VA =	-
R-LOAD VA =										930	RECEPT. (> 10 KVA @ 50%) VA =	0
M-LOAD VA =										1,104	RECEPT. (<= 10 KVA @ 100%) VA =	930
OTHER LOAD VA =										-	MOTOR LOAD @ 100% VA =	1,104
CONNECTED VA =										2,049	OTHER LOAD @ 100% VA =	-
TOTAL DEMAND VA =												2,052.8
DEMAND AMPS =												8.6

\* NEW C.B. SHALL HAVE THE CAPABILITY TO BE LOCKED IN THE OPEN POSITION

PANEL:		"T3"		PANEL RATING: 30A-120/240V-1Ø-3W								
ENCLOSURE:		NEMA 3R		MAINS: 30A-2P								
MANUFACTURER:		SQ'D, EATON, G.E.		BUS/AIC: 100A/10 KAIC								
CIRCUIT No.	TYPE	TRIP	POLE	LITE	RECEPT	MISC	PHASES AØ VA	BØ VA	DESCRIPTION			
1	R	20	1			1	180		CONVENIENCE GFI DUPLEX RECEPTACLE			
2	L	20	1			1		180	200 SPORTS LTG PANEL CONTROL VOLTAGE			
3	L	15	1	1			15		INTERIOR CABINET LED LIGHT FIXTURE			
4									PROVISION			
5									PROVISION			
6									PROVISION			
7									PROVISION			
8									PROVISION			
9									PROVISION			
10									PROVISION			
TOTAL CONNECTED VA PHASE										195	200	
LOAD TYPE:												
L-LOAD VA =										215	L.C.L. @ 125% VA =	269
G-LOAD VA =										-	GENERAL LOAD @ 100% VA =	-
R-LOAD VA =										180	RECEPT. (> 10 KVA @ 50%) VA =	0
M-LOAD VA =										-	RECEPT. (<= 10 KVA @ 100%) VA =	180
OTHER LOAD VA =										-	MOTOR LOAD @ 100% VA =	-
CONNECTED VA =										395	OTHER LOAD @ 100% VA =	-
TOTAL DEMAND VA =												448.8
DEMAND AMPS =												1.9



## ONE-LINE DIAGRAM

### ONE-LINE GENERAL NOTES:

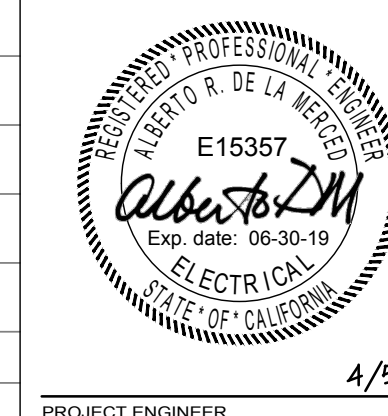
- PROVIDE BLACK ON WHITE LAMINATED PLASTIC NAMEPLATE ENGRAVED IN MINIMUM 1/4" HIGH LETTERS. ATTACH NAMEPLATE TO EQUIPMENT, PANEL BOARDS AND DISCONNECTS, ETC. WITH RIVETS, BOLTS, OR SHEET METAL SCREWS. CEMENTED ATTACHMENTS ARE NOT ACCEPTABLE.
- PROVIDE CARD HOLDER ON INSIDE OF DOORS OF PANEL BOARDS FOR INDEX CARDS. AN ACCURATE TYPEWRITTEN OR COMPUTER PRINTED PANEL SCHEDULE SHALL BE PUT INTO EACH PANEL. ROOM NUMBERS SHALL NOT BE THE ONES ON THE PLANS, BUT THE ONES DESIGNATED BY THE ARCHITECT AND/OR OWNER.
- PROVIDE (2) KEYS WITH EACH PANEL BOARD. ALL PANEL BOARD LOCKS SHALL BE KEYPED ALIKE.
- WHERE TWO OR THREE POLE CIRCUIT BREAKERS OCCUR IN LIGHTING PANELS, THE MULTI-POLE BREAKERS SHALL HAVE COMMON TRIP "QUICKLAG" TYPE UNITS. SINGLE POLE BREAKERS WITH TIE-BAR BETWEEN HANDLE WILL NOT BE ACCEPTABLE.
- ELECTRICAL CONTRACTOR SHALL DETERMINE EXACT LENGTHS FOR HIS BID.
- BOND GROUNDING ELECTRODE CONDUCTOR TO GROUNDING ELECTRODE WITH IRREVERSIBLE GROUND CLAMP OR EXOTHERMIC WELD (CADWELD, THERMOWELD, OR EQUAL).
- ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED FOR 75°C MINIMUM.
- FUSES SHALL BE FUSETRON DUAL ELEMENT TIME DELAY.
- ALL NEW PANEL BOARDS SHALL BE FULLY RATED. SERIES RATED ARE NOT ACCEPTABLE.

### SWBD "A" LOAD SUMMARY:

30-DAY PEAK CURRENT DEMAND IS 106.2 kVA.	
(E) LOAD:	106.2 kVA x 1.25 = 132.8 kVA
(N) PNL "B"	46.7 kVA
25% OF LARGEST MOTOR	0.3 kVA
TOTAL	179.8 kVA
179.8 kVA = 216.4 AMPS @ 480V-3Ø ON A 400A-3P MAIN CIRCUIT BREAKER	

DATE: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_ CHECKER: \_\_\_\_\_ DESIGNER: ADM DRAFTER: ADM

DATE	MK	DESCRIPTION
REVISIONS		



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK**

**REGIONAL STORMWATER CAPTURE PROJECT**

**ONE-LINE DIAGRAM**

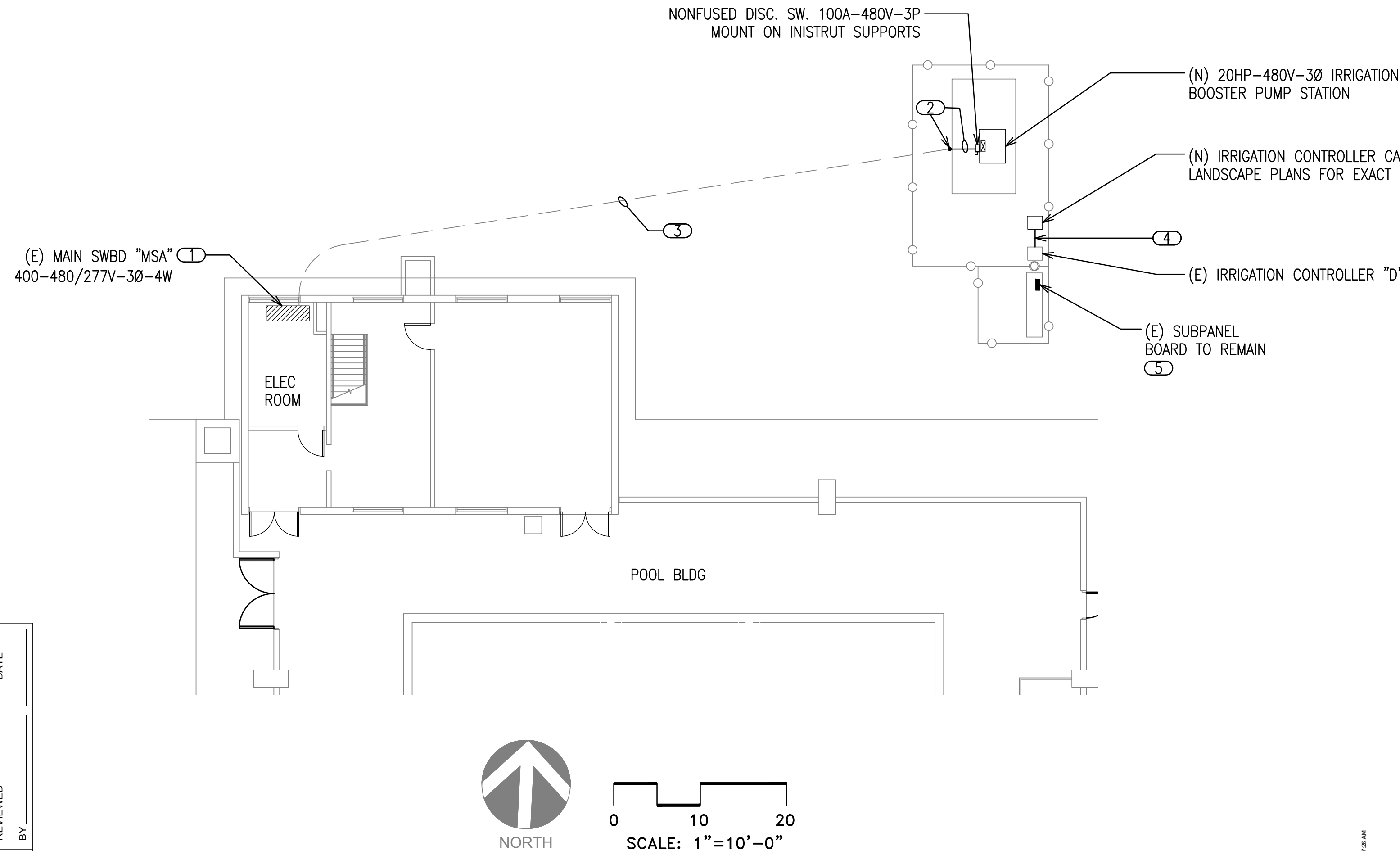
**NOTES, PANEL SCHEDULES**

E6

PIN WMD000109 PCA F21812149 SHEET 56 OF 63



DATE  
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CAD PROJECT FILE NAME  
CHECKER  
DESIGNER ADM  
DRAFTER ADM



GENERAL DEMOLITION NOTES:

- A. EXISTING 10HP-480V-3Ø IRRIGATION BOOSTER PUMP STATION TO BE REMOVED AND REPLACED WITH A NEW 20HP-480V-3Ø IRRIGATION BOOSTER PUMP STATION, SEE LANDSCAPE PLANS.
- B. DISCONNECT EXISTING BRANCH CIRCUIT CONDUIT AND WIRES AS REQUIRED TO MAKE ROOM FOR THE NEW IRRIGATION BOOSTER PUMP STATION CABINET. PULL WIRES BACK TO EXISTING SOURCE C.B. IN SWBD "MSA". EXISTING UNDERGROUND CONDUIT TO BE REUSED.

CONSTRUCTION NOTES:

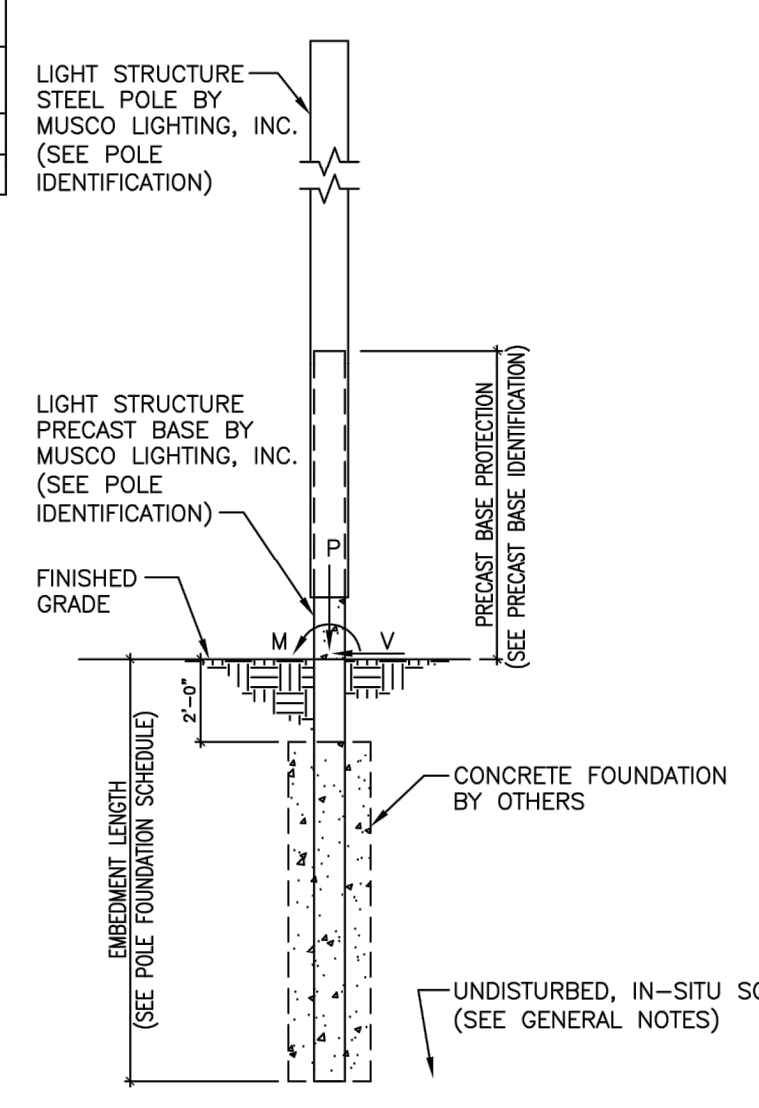
- 1 REMOVE EXISTING IRRIGATION PUMP 20A-3P C.B. IN SPACES 2,4,6 AND REPLACE WITH A 70A-3P C.B.
- 2 INTERCEPT EXISTING ABOVE GROUND 1" RIGID CONDUIT AND EXTEND NEW 1" C - 3#4 & 1#4G LTFMC TO NEW NEMA 3R HEAVY DUTY 60A-480V-3P NON-FUSED DISCONNECT SWITCH.
- 3 INSTALL 3#4 & 1#4G IN EXISTING U.G. CONDUIT.
- 4 INTERCEPT EXISTING BRANCH CIRCUIT CONDUIT AND WIRES INSIDE EXISTING IRRIGATION CONTROLLER "D" AND EXTEND NEW 3/4"C - 2#12 & 1#12G TO IRRIGATION CONTROLLER "C". SEE LANDSCAPE PLANS FOR EXACT LOCATION.
- 5 PER ASBUILT PLANS, EXISTING IRRIGATION CONTROLLER "D" BRANCH CIRCUIT IS FED FROM EXISTING SUBPANEL BOARD CKT#26, FIELD VERIFY.

POLE FOUNDATION SCHEDULE					
TYPE	ASD GROUNDLINE FORCES (MAXIMUM)			C.I.P. DEEP FOUNDATION	
	MOMENT (M) KIP-FT	SHEAR (V) KIPS	VERTICAL (P) KIPS	DIAMETER INCHES	EMBEDMENT FEET
LSS70-A	51.150	1.229	1.416	30"	12'-0"
LSS70-B	61.780	1.368	1.675	30"	12'-0"

PRECAST BASE IDENTIFICATION					
PRECAST BASE TYPE	WEIGHT LBS	OVERALL LENGTH FEET	HEIGHT ABOVE GRADE FEET	EMBEDMENT IN C.I.P. DEEP FOUNDATION FEET	OUTSIDE DIAMETER INCHES
3B	2,670	20'-0"	8'-0"	12'-0"	13.375"

POLE IDENTIFICATION				
LOCATION MARK	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (MAX # OF FIXTURES PER CROSSARM)	FIXTURE EPA (MAXIMUM)
S1, S3, S4, S6	LSS70-A	3B	3	8.4
S2, S5	LSS70-B	3B	4	11.2

LED 1150 FIXTURE: EPA = 2.8 SQ-FT MAX & WEIGHT = 80 LBS (FIXTURE ALONE), PER MUSCO LIGHTING, INC.



LIGHT POLE FOUNDATION DETAIL  
SCALE: NO SCALE

STATEMENT OF SPECIAL INSPECTIONS*		
ITEM	CONTINUOUS/PERIODIC	SCOPE
1. PIER FOUNDATIONS	CONTINUOUS	INSPECT INSTALLATION OF DRILLED PIER FOUNDATIONS. VERIFY DIAMETER, EMBEDMENT DEPTHS AS SCHEDULED, DEPTHS OF FILL, AND BEARING STRATA.
2. CONCRETE PLACEMENT	CONTINUOUS	INSPECT PLACEMENT OF CONCRETE FOR PROPER APPLICATION TECHNIQUES. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.
3. CRETEX PRECAST/PRESTRESSED CONCRETE BASES	(PCI CERTIFIED)	FABRICATOR EXEMPT.** REFERENCE ICC ESR-3765.
4. STRUCTURAL STEEL	(LA. CITY AND/OR COUNTY APPROVED)	FABRICATOR EXEMPT.** REVIEW CERTIFIED MILL TESTS REPORTS AND IDENTIFICATION MARKINGS.

\* The Special Inspector shall be a qualified person who shall demonstrate competence to the satisfaction of the Building Official for inspection of the particular type of construction or operation requiring special inspection.  
\*\*Special inspections shall not be required when the work is done on the premises of a fabricator registered and approved by the County to perform such work without special inspection.

**GENERAL NOTES**

ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE COUNTY OF LOS ANGELES BUILDING CODE 2017 EDITION.

WIND - ASCE 7-10, Vult = 110 MPH (EXPOSURE C); Vasd = 85 MPH (EXPOSURE C), RISK CATEGORY II.

SS=1.893, S1=0.873, SDS=1.893, SD1=1.010; RISK CATEGORY=II; I=1.0; SITE SPECIFIC WIND RESISTANCE DESIGN CATEGORY=II.

THIS FOUNDATION IS NOT SIMILAR TO BUILDINGS; ANALYSIS PROCEDURE-EQUIVALENT LATERAL FORCE PROCEDURE.

REFERENCE POLE LOCATION DRAWING FOR ACTUAL POLE PLACEMENT AND SITE LOCATION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES AND SAFETY CONDITIONS AT THE JOB SITE.

**SOIL DESIGN PARAMETERS**

REFERENCE GEOTECHNICAL ENGINEERING INVESTIGATION PREPARED BY COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION, DATED OCTOBER 30, 2017.

ALLOWABLE SKIN FRICTION: 125 PSF

ALLOWABLE LATERAL PASSIVE SOIL BEARING PRESSURE: 200 PSF/FT UP TO MAXIMUM OF 2,000 PSF/FT. THIS VALUE MAY BE TAKEN AS ACTING ON TWICE THE DIAMETER FOR ISOLATED POLES.

A REPRESENTATIVE OF GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION SHOULD BE PRESENT AT THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY BE REQUIRED. FOUNDATIONS MAY NEED TO BE REANALYZED TO THE SOIL CONDITIONS THAT EXIST.

IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY.

ALL PRECAST BASES AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM, UNDISTURBED SOIL OR AS APPROVED BY A GEOTECHNICAL ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL. SOIL MAY BE REQUIRED TO BE CAVEING OCCURS. IN SUCH A CASE, APPROVED BY A GEOTECHNICAL ENGINEER IS REQUIRED.

ALL EXCAVATIONS MUST BE FREE OF WATER OR CONCRETE SHALL BE PLACED WITH A TREMIE SHAFT IN ACCORDANCE WITH ASTM STANDARD 330. CONCRETE SHALL BE PLACED WITH A TREMIE METHOD. HAVE A MINIMUM ULTIMATE STRENGTH OF 1,000 PSI GREATER THAN REQUIRED UNDER "CONCRETE BACKFILL" BELOW.

**CONCRETE BACKFILL**

CONCRETE BACKFILL WITHOUT STEEL REINFORCEMENT SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI (2,500PSI USED FOR STRUCTURAL DESIGN). SEE STATEMENT OF SPECIAL INSPECTIONS REQUIRED.

CONCRETE BACKFILL SHALL ATTAIN A MINIMUM STRENGTH OF 2,500 PSI PRIOR TO STEEL POLE ERECTION.

USE TYPE II/V PORTLAND CEMENT OR AS RECOMMENDED BY THE ENGINEER.

MIX IN CONFORMANCE WITH ASTM C-94

AGGREGATES PER ASTM C-33 (1" MAX AGG. SIZE) 3/8" MAX AGG. SIZE ACCEPTABLE WHERE PUMP MIXES ARE USED UNREINFORCED CONCRETE BACKFILL.

PLACE CONCRETE IMMEDIATELY AFTER COMPLETION OF EXCAVATION AND INSPECTION BY THE GEOTECHNICAL ENGINEER. NO EXCAVATIONS SHALL BE LEFT UNPROTECTED OR OPEN OVERNIGHT.

CONCRETE SHALL BE PLACED IN ONE CONTINUOUS OPERATION (NO CONSTRUCTION JOINT) TO GRADE WITH SPECIAL EQUIPMENT WITH A MAXIMUM FREEFALL OF 5 FT AND TO PREVENT CONCRETE FROM STRIKING THE SIDES OF THE EXCAVATION. VIBRATE TOP 5 FT.

**MISCELLANEOUS**

FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION.

POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS, PLATFORMS, SPECIFICATIONS, AND INSTALLATION PER MUSCO LIGHTING, INC.

POLE SUPPORT FOUNDATION	MUSCO LIGHTING, INC. 2107 STEWART ROAD MUSCATINE, IOWA 52761 MUSCO No. 183480	DATE 11/08/17
FRANKLIN D ROOSEVELT PARK- SOCCER FIELD LOS ANGELES, CA	KNA STRUCTURAL ENGINEERS 9931 MUIRLANDS BLVD. IRVINE CA, 92618 KNA No. 363.231	SHEET C1 OF 1



DATE	MK	DESCRIPTION
REVISIONS		

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK  
REGIONAL STORMWATER CAPTURE PROJECT**

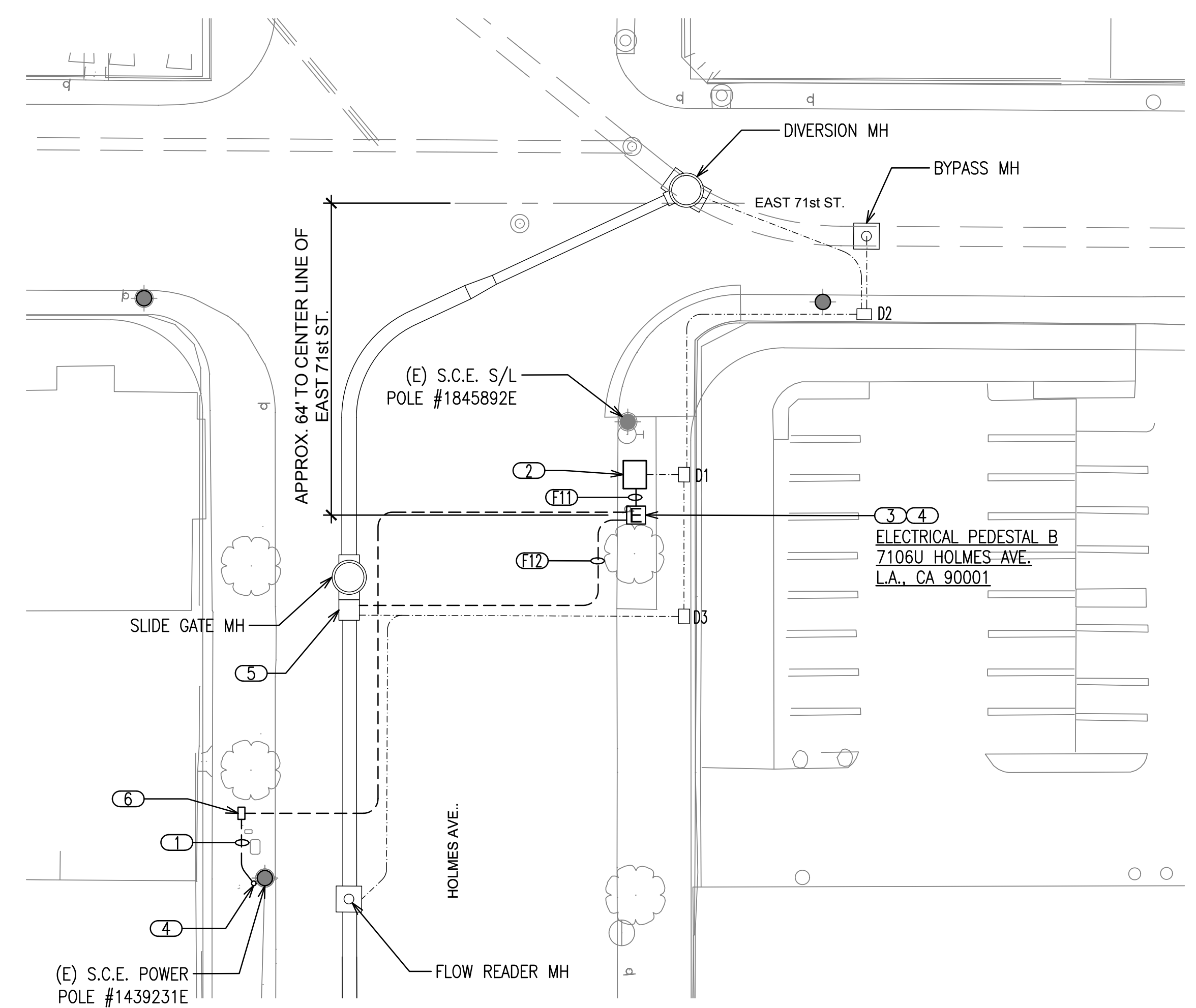
**SPORTS LIGHTING FOUNDATION PLAN &  
IRRIGATION BOOSTER PUMP POWER PLAN**

E8

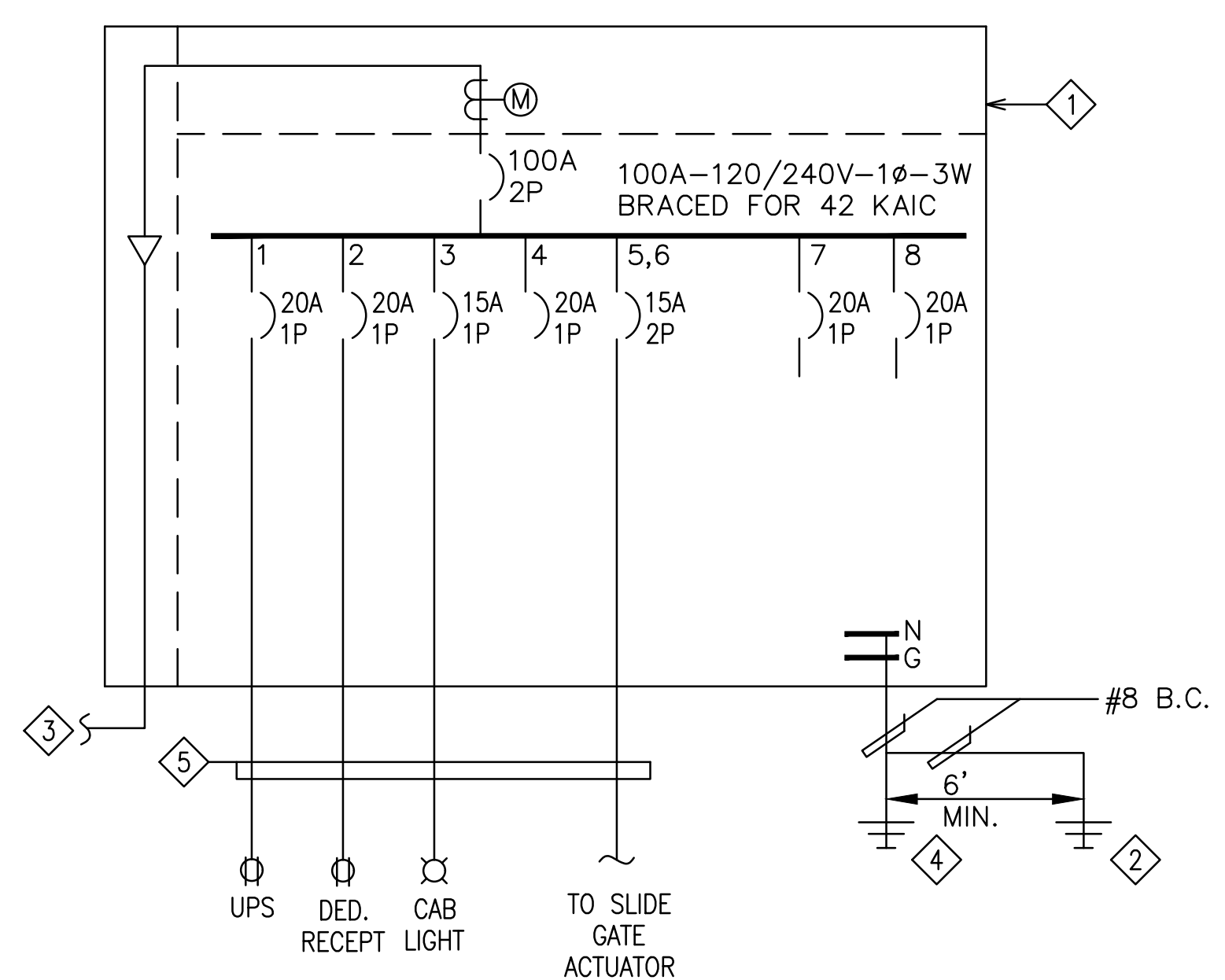
PIN WMD000109    PCA F21812149    SHEET 58 OF 63

PANEL:		SERVICE PEDESTAL "B"		PANEL RATING: 100A-120/240V-1Ø-3W					
ENCLOSURE:		NEMA 3R		MAINS: 100A-2P					
MANUFACTURER:		MYERS, STRONG BOX		BUS/AIC: 100A/42 KAIC					
CIRCUIT	QCT BKR	TRIP	POLE	LITE	MISC	PHASES	AB VA	BØ VA	DESCRIPTION
1	R	20	1				750		UPS
2	R	20	1						CONVENIENCE GFCI DUPLEX RECEPTACLE
3	L	15	1	1			15		INTERIOR CABINET LED LIGHT FIXTURE
4		20	1						SPARE
* 5	M	15	2		1		552		SLIDE GATE ACTUATOR No.1
6	M						552		SPARE
7		20	1						SPARE
8		20	1						SPARE
TOTAL CONNECTED VA PHASE							1,317	732	
L-LOAD VA =		15		L.C.L @ 125% VA =		19			
G-LOAD VA =		930		GENERAL LOAD @ 100% VA =		-			
R-LOAD VA =		1,104		RECEPT (<= 10 KVA @ 50% VA) =		0			
M-LOAD VA =		-		MOTOR LOAD @ 100% VA =		930			
OTHER LOAD VA =		-		OTHER LOAD @ 100% VA =		1,104			
CONNECTED VA =		2,049		TOTAL DEMAND VA =		2,052.8			
LOAD TYPE:				DEMAND AMPS =		8.6			
L = (L.C.L.) CONTINUOUS LOAD				G = GENERAL LOADS					
R = RECEPTACLE LOADS				M = MOTOR LOADS					

\* NEW C.B. SHALL HAVE THE CAPABILITY TO BE LOCKED IN THE OPEN POSITION

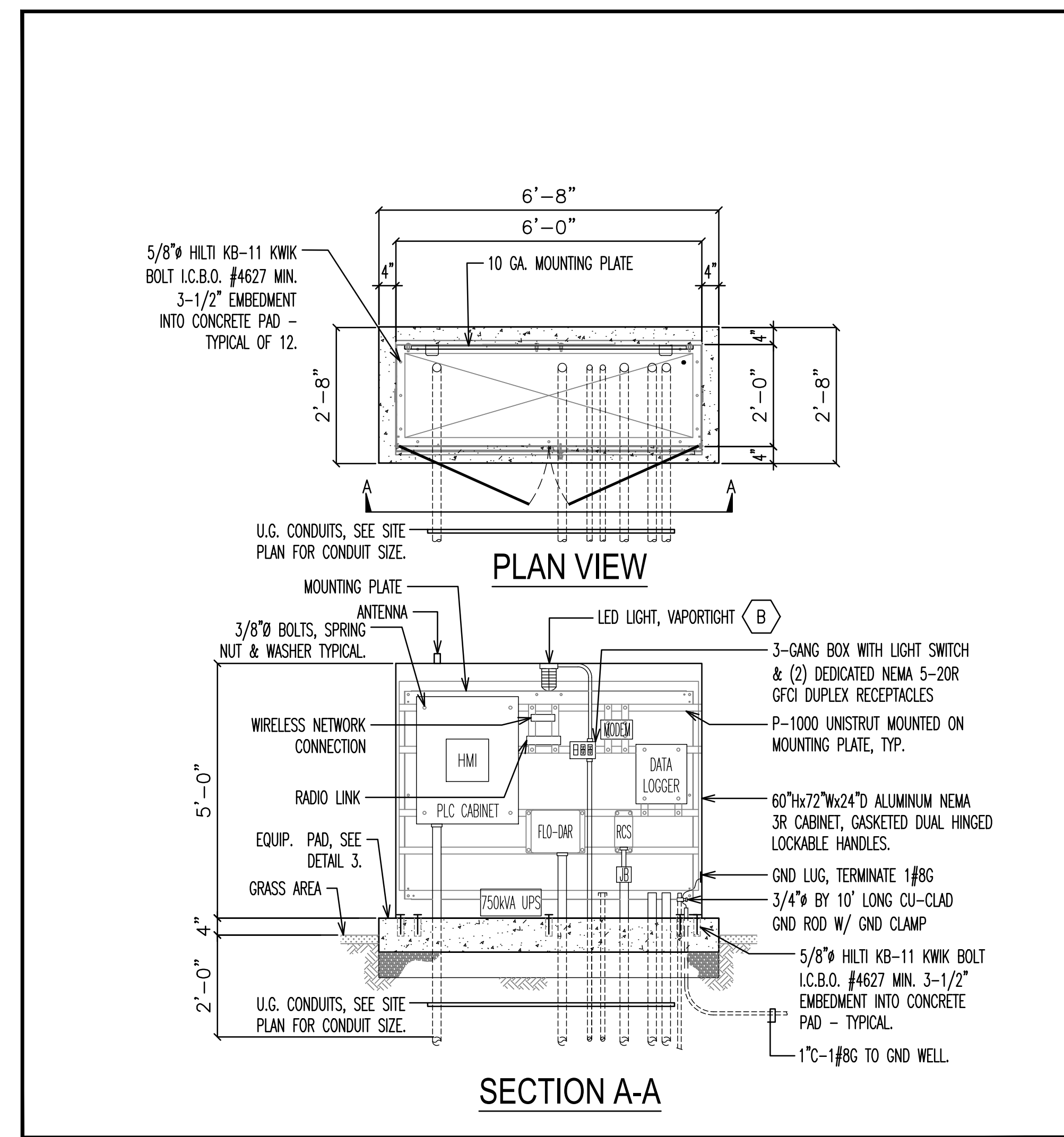


- GENERAL NOTES:**
- ELECTRICAL SUBCONTRACTOR SHALL PROVIDE AND CONSTRUCT ALL U.G. MONITORING CONDUITS, PULL ROPES, PULL BOXES AS SHOWN ON MECHANICAL PLANS M-1, M-2, M-3.
  - SEE "MONITORING WELL EQUIPMENT AND ACCESSORIES" TABLE ON PLAN M-3 FOR WATER SAMPLING DATA LOGGER AND MODEM EQUIPMENT DESCRIPTIONS.
  - SEE PLAN E10 FOR PLC & TELEMETRY REQUIREMENTS AND 750VA UPS DESCRIPTION.
  - SEE PLAN M-9 FOR EMO RCS CONTROLLER DETAIL.
  - SEE PLAN M-6 FOR FLO-DAR DATA LOGGER DETAIL.
- CONSTRUCTION NOTES:**
- 3" DIAMETER UTILITY UNDERGROUND SERVICE CONDUIT WITH PULL ROPE, 30" MINIMUM COVER. INSTALL PER S.C.E. REQUIREMENTS. COORDINATE WITH S.C.E. SERVICE PLANNER FOR EXACT LOCATION.
  - ELECTRICAL EQUIPMENT STAND-UP CABINET, SEE DETAIL ON THIS SHEET.
  - SERVICE PEDESTAL "B", SEE DETAIL 1 ON PLAN E2.
  - STUB-UP CONDUITS INSIDE SERVICE PEDESTAL AND AT BASE OF POWER POLE.
  - ACTUATOR VAULT.



- SPECIFIC NOTES:**
- METERED SERVICE PEDESTAL, SEE DETAIL. INSTALL NEW UTILITY SERVICE IN ACCORDANCE WITH UTILITY & NEC REQUIREMENTS. INSTALL 10' CU-CLAD GROUND ROD AT NEW SERVICE. BOND SERVICE ENCLOSURE & NEUTRAL TO GROUND ROD WITH #8 AWG COPPER.
  - GROUND WELL, SEE DETAIL, 3/4"Ø x 10' CU-CLAD GROUND ROD. GROUND SYSTEM SHALL BE INSTALLED PER NEC 250-50.
  - UNDERGROUND UTILITY COMPANY SERVICE FEEDER.
  - 3/4"Ø x 10' CU-CLAD GROUND ROD IN PEDESTAL.
  - U.G. BRANCH CIRCUITS, SEE SITE PLAN FOR NUMBER OF CONDUITS AND WIRE SIZES.

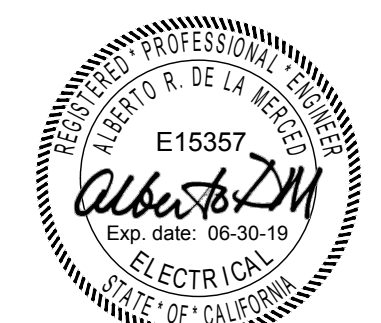
**SERVICE PEDESTAL "B" ONE-LINE DIAGRAM**



**ELECTRICAL EQUIPMENT STAND-UP CABINET DETAIL**

DATE \_\_\_\_\_ REVIEWED BY \_\_\_\_\_  
 CAD PROJECT FILE NAME \_\_\_\_\_ CHECKER \_\_\_\_\_  
 DESIGNER ADM \_\_\_\_\_ DRAFTER ADM \_\_\_\_\_

DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK**

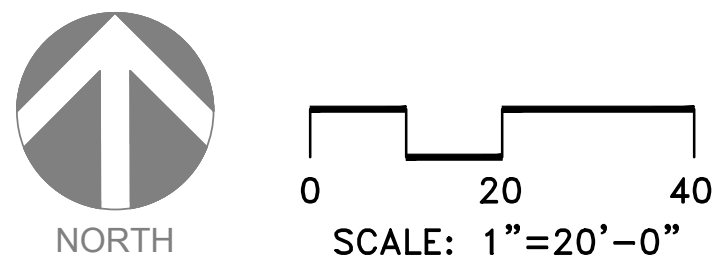
**REGIONAL STORMWATER CAPTURE PROJECT**

**SITE PLAN**

**71st ST. & HOLMES AVE., ONE-LINE DIAGRAM, PANEL SCHEDULE, NOTES**

E9

PIN WMD000109 PCA F21812149 SHEET 59 OF 63

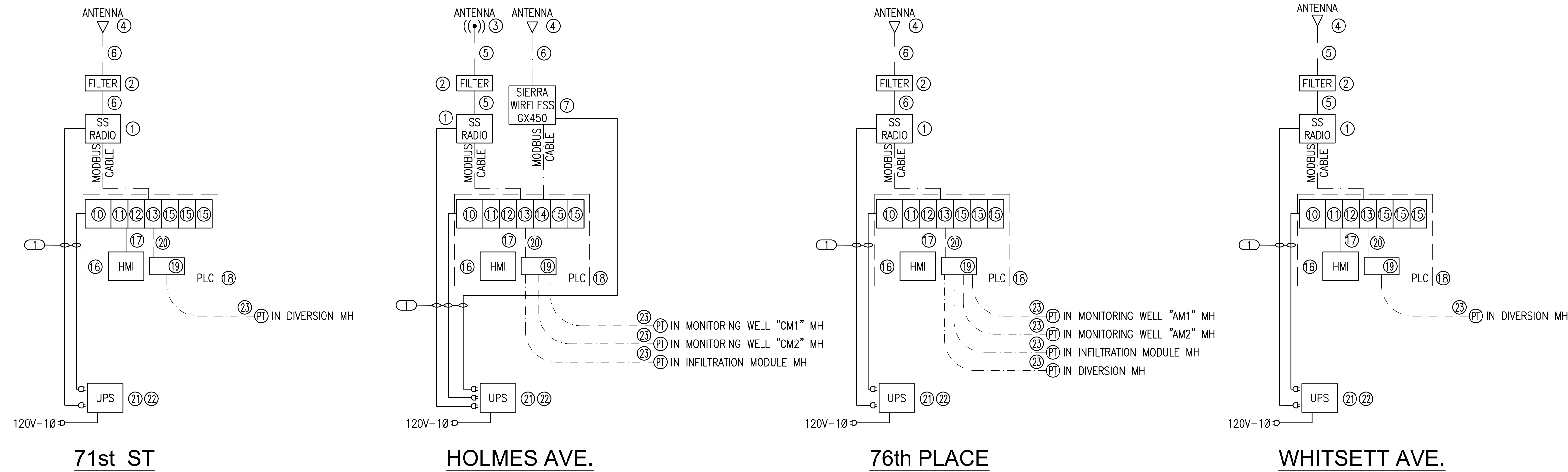


GENERAL NOTES:

- A. PLC I/O EQUIPMENT SUBCONTRACTOR TO PROVIDE "AUTOMATION DIRECT" PROGRAMMABLE LOGIC CONTROLLER AND DESIGN PROGRAMMABLE LOGIC CONTROL (PLC) SCHEMATIC FOR FLOW TRANSDUCERS AND PRESSURE TRANSDUCERS OPERATION AND SUBMIT TO AGENCY FOR REVIEW AND APPROVAL.
- B. PLC I/O EQUIPMENT SUBCONTRACTOR TO PROVIDE AND INSTALL ALL HARDWARE, CONDUITS, SUPPORTS, AND SIGNAL & DATA CABLES. ALL WIRING SHALL BE TIED TO TERMINAL STRIP. LOS ANGELES COUNTY PUBLIC WORKS DEPT OPERATION SERVICES DIVISION TO PROGRAM SYSTEM.

CONSTRUCTION NOTES:

- ① MANUFACTURER POWER CORD WITH NEMA 5-15P. CONNECT TO UPS INTEGRAL NEMA 5-15R RECEPTACLE. SECURE CORDS TO UNISTRUT SUPPORTS WITH PLASTIC CABLE TIES AS REQUIRED.



INTERCONNECTION BLOCK DIAGRAM

EQUIPMENT BILL OF MATERIALS

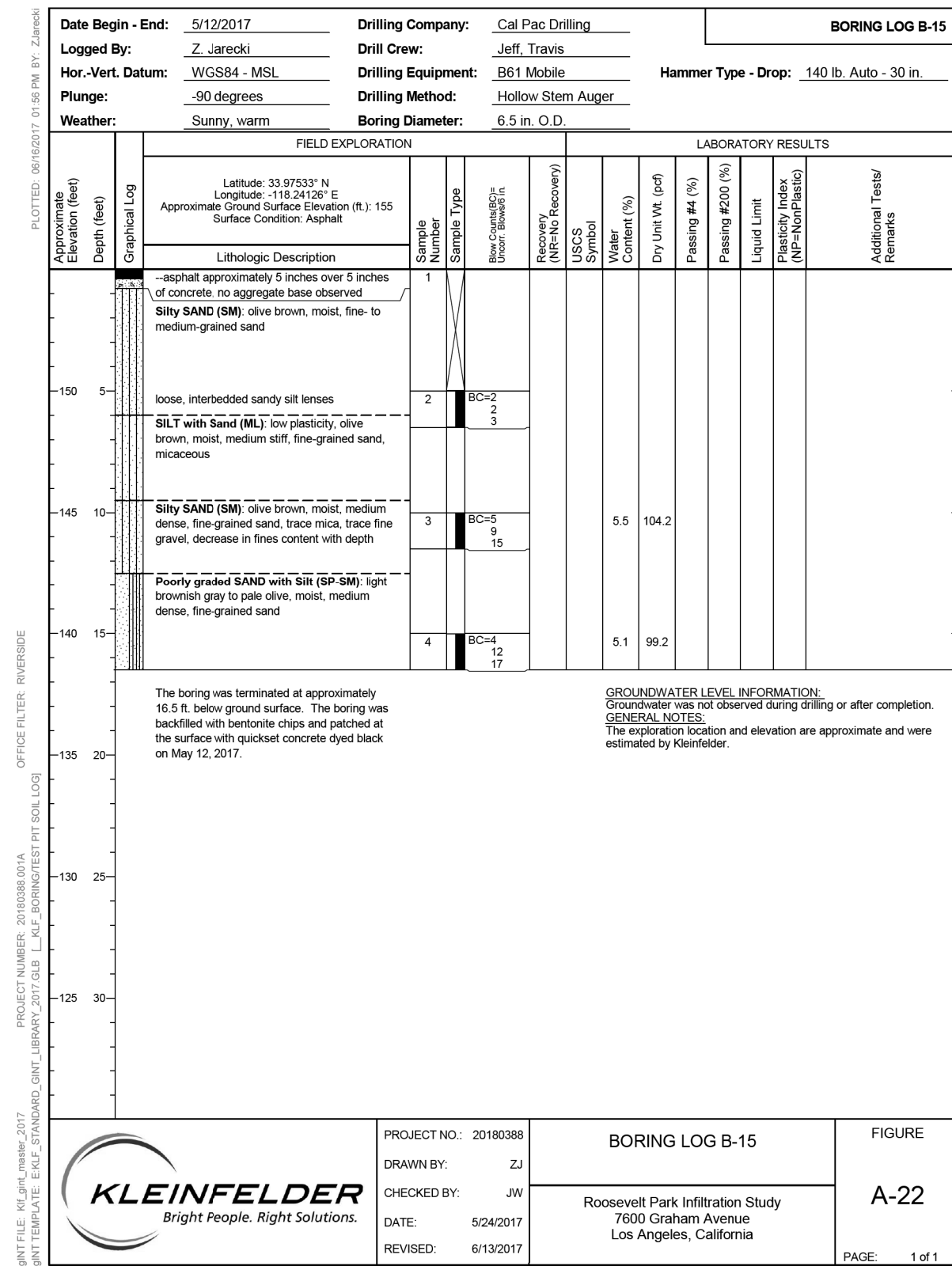
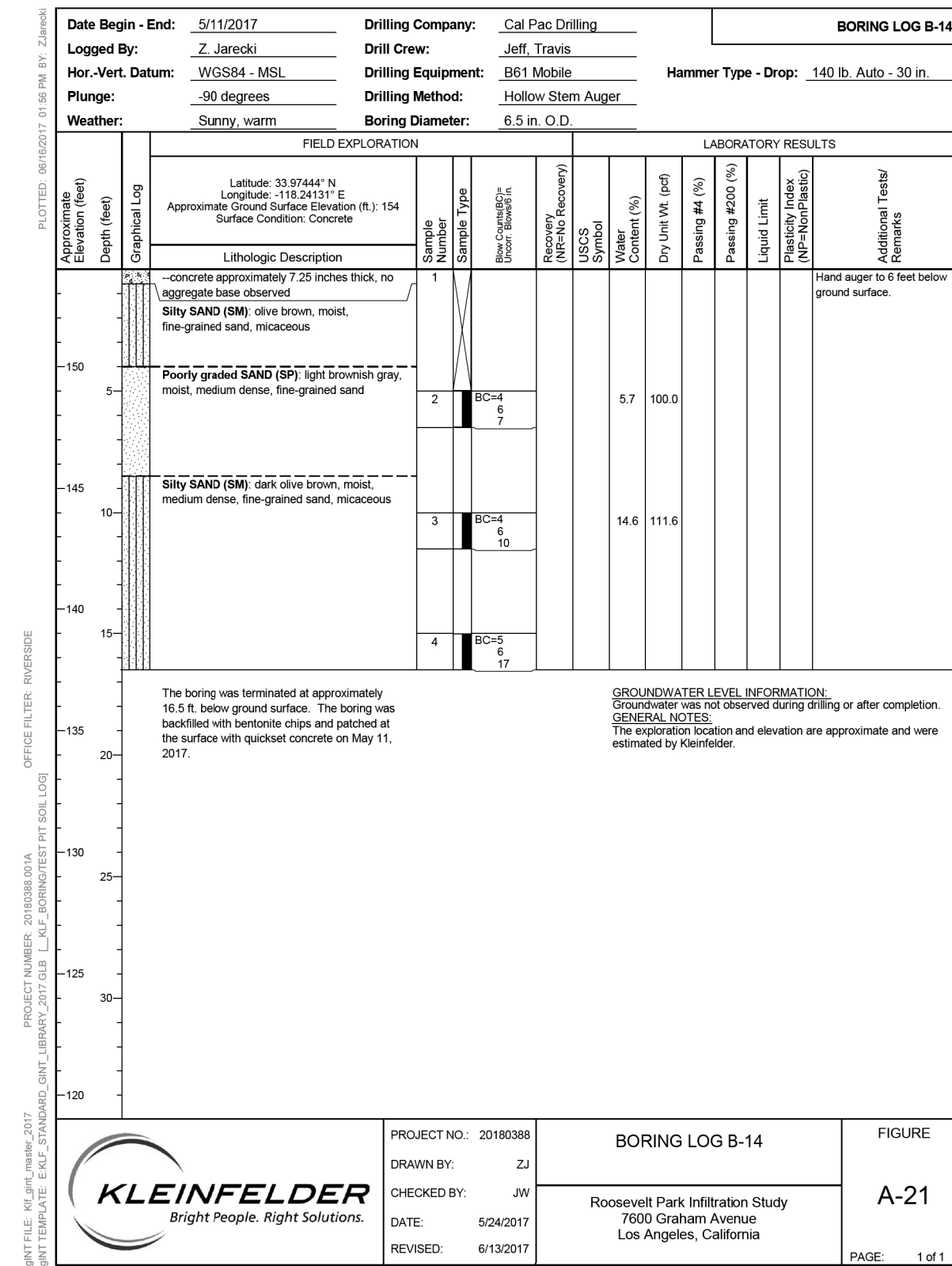
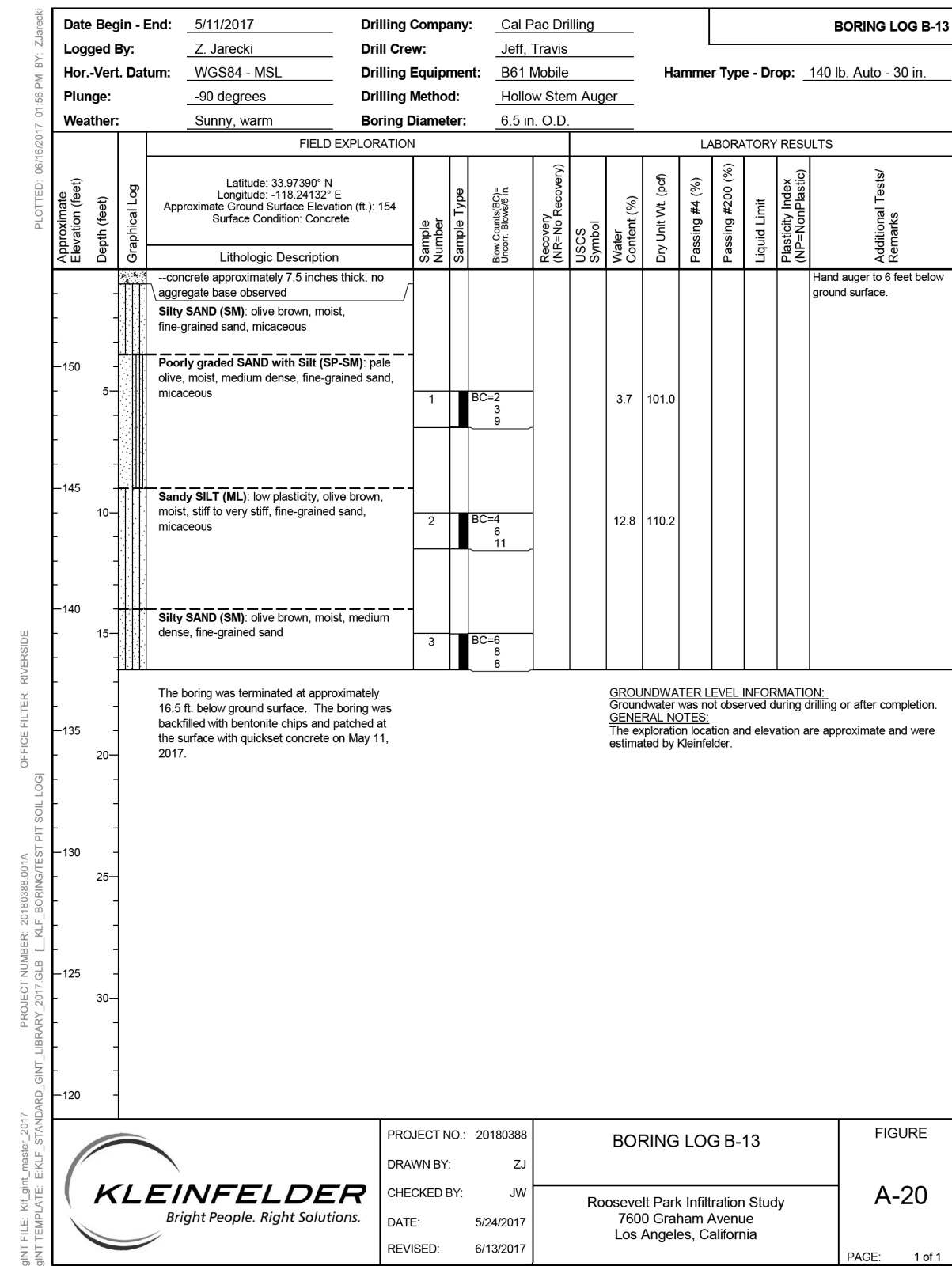
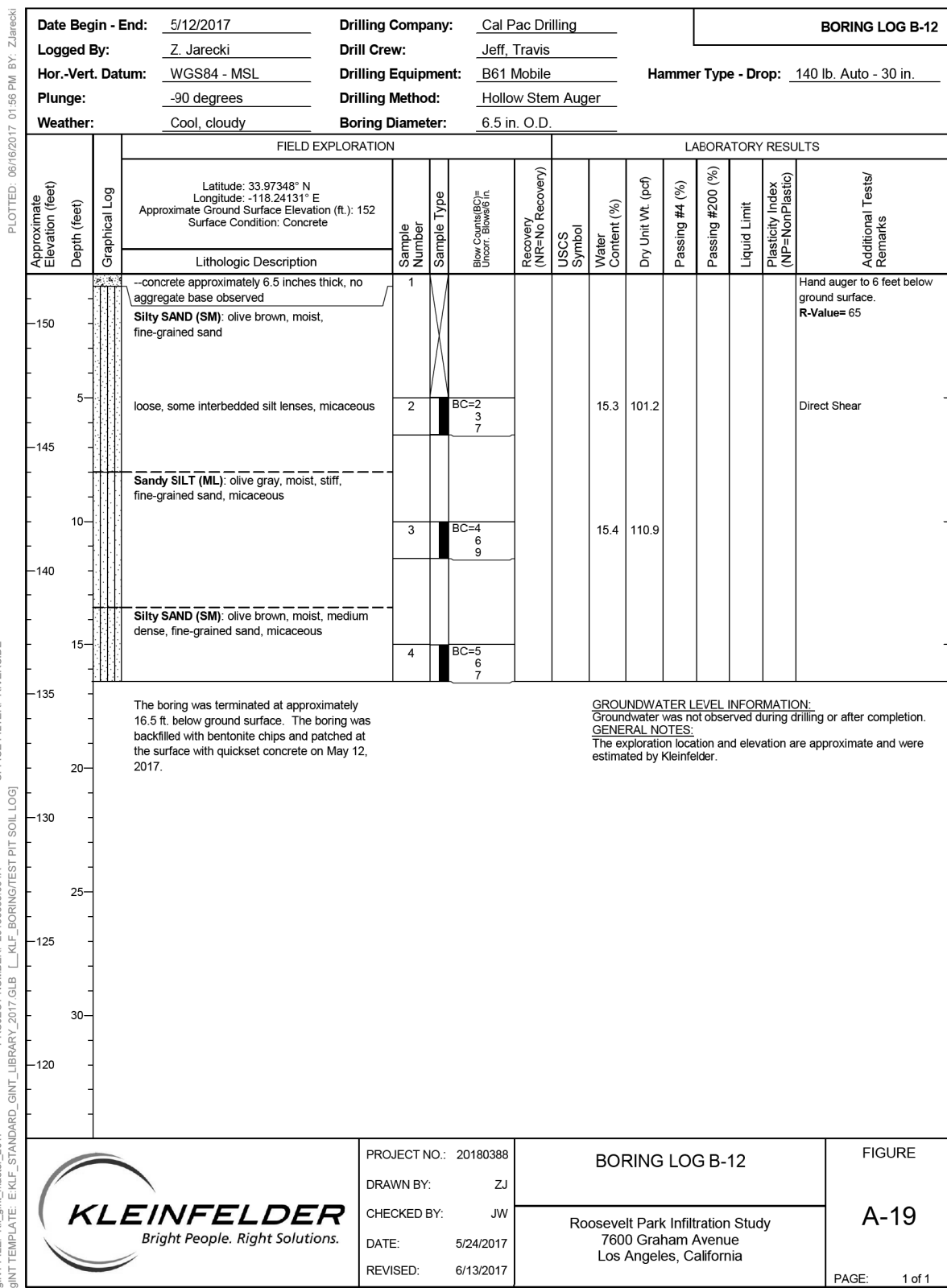
ITEM	DESCRIPTION
①	MDS ECR-900 SPREAD SPECTRUM RADIO LINK, MODEL#ECRU91NNNNNS1D1USUNNN
②	MDS 902-927 BANDPASS FILTER, MODEL#20-22822AA02
③	LAIRD DS-FG9026 1016 6db 900-920 WITH FM2 MOUNTING BRACKET
④	LAIRD 902-927 ANTENNA, CABINET ROOF MOUNT, UNITY GAIN, BLACK, MODEL#TRAB9023NP
⑤	COAX: TIMES LMR400 USED FOR POLE MOUNTED YAGI ANTENNA
⑥	COAX: TIMES LMR200 USED FOR CABINET TOP LAIRD ANTENNA
⑦	SIERRA WIRELESS AIRLINK, GX450, AT&T CELLULAR, MODEL#11020364
⑧	LAIRD CELLULAR ANTENNA, CABINET ROOF MOUNT, BLACK, MODEL#TRAB806/17103P
⑨	COAX: TIMES LMR200
⑩	BASE 6 SLOT: D2-06BDC1-1
⑪	CPU MODULE: DO-MORECPU, ETHERNET INTERFACE, H2-DM1E
⑫	24DC INPUT CARD, 16 INPUTS, D2-16ND3-2
⑬	ANALOG INPUT/OUTPUT CARD, 8 INPUTS, 4 OUTPUTS, F2-8AD4DA01
⑭	H2-ECOM100 ETHERNET MODULE MODBUS
⑮	BLANK FILLER MODULE, D2-SILL
⑯	10" TOUCH SCREEN MODULE, MODEL#EA9-T10CL. ON CABINET DOOR.
⑰	SERIAL CABLE, CATALOG#EA-2CBL-1
⑱	ENCLOSURE, NEMA TYPE 4, SIZE 24"Wx30"Hx10"D WITH PANEL DIN-RAIL, CATALOG#CSD302410LG
⑲	ZIPLINK 20-POLE FEED THRU MODULE ZL-RTB20
⑳	INTERFACE CABLE ZL-D2-CBL 19
㉑	APC SMART-UPS 750VA LCD 120V, MODEL#SMT750US. (1) NEMA 5-15P INPUT, (6) NEMA 5-15R OUTPUT
㉒	WALL MOUNT BRACKET, UNIVERSAL
㉓	AMETEK MODEL SDT PRESSURE TRANSDUCER, 4-20mA ANALOG INPUT

DATE \_\_\_\_\_  
 REVIEWED BY \_\_\_\_\_  
 CAD PROJECT FILE NAME \_\_\_\_\_  
 CHECKER \_\_\_\_\_  
 DESIGNER ADM \_\_\_\_\_  
 DRAFTER ADM \_\_\_\_\_

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS <b>FRANKLIN D. ROOSEVELT PARK</b> <b>REGIONAL STORMWATER CAPTURE PROJECT</b> <b>TELEMETRY &amp; PLC BLOCK DIAGRAMS</b>			PROJECT ENGINEER DATE: A/5/18
SHEET 60 OF 63 PIN WMD0000109    PCA F21812149			
DATE	MK	DESCRIPTION	
REVISIONS			







DATE \_\_\_\_\_  
 REVIEWED BY \_\_\_\_\_  
 CHECKER Y. HALPERN  
 DESIGNER \_\_\_\_\_  
 DRAFTER E. LY

DATE	MK	DESCRIPTION



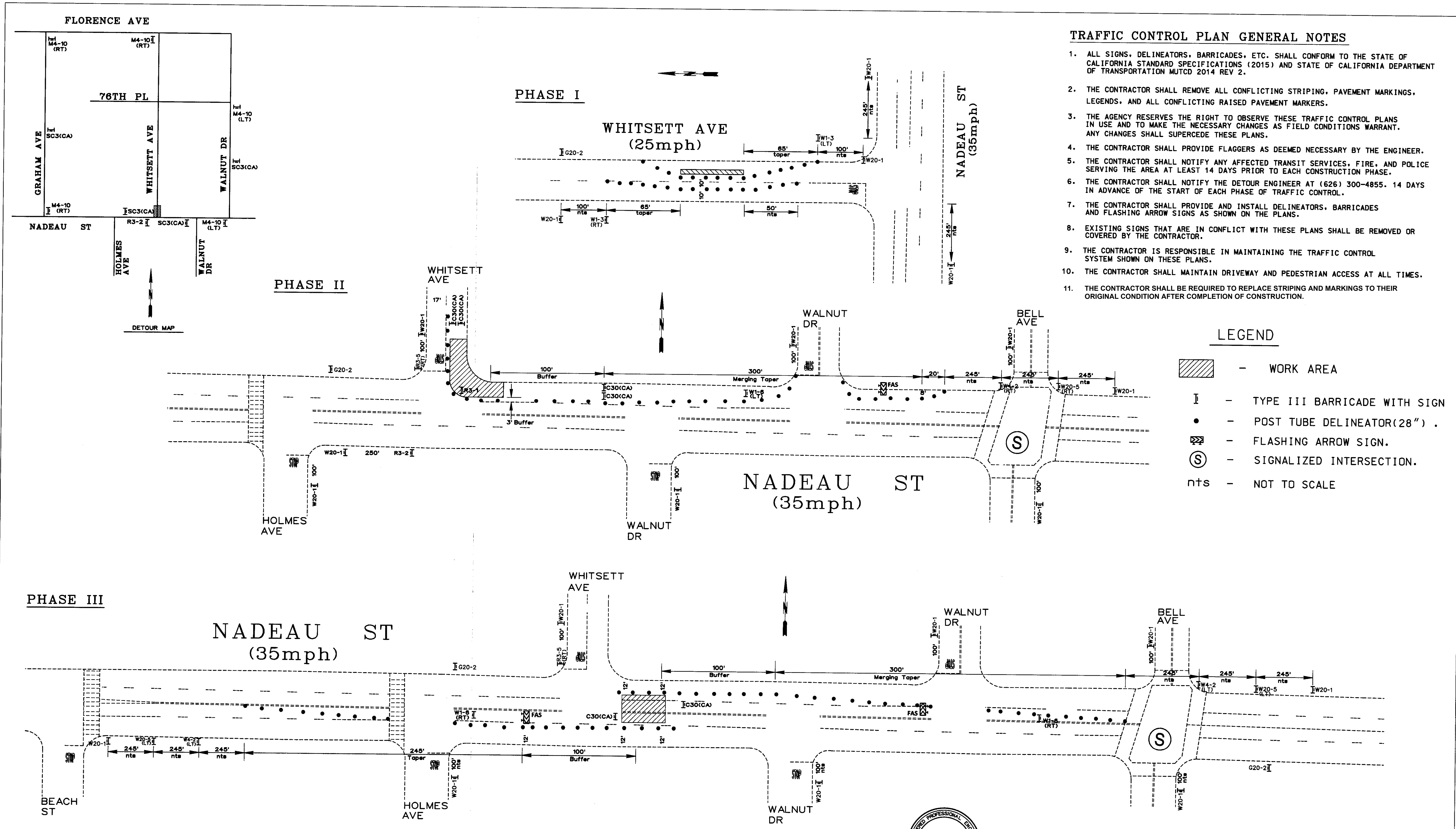
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**FRANKLIN D. ROOSEVELT PARK REGIONAL STORMWATER CAPTURE PROJECT**

BORING LOGS  
 GMED TO ADD THIS TITLE

PROJECT ENGINEER: [Signature] DATE: 4/3/19  
 PROJECT NUMBER: 20180388  
 PCA: F2181249  
 DWG: WMD0000109  
 SHEET 63 OF 63





- ### TRAFFIC CONTROL PLAN GENERAL NOTES
1. ALL SIGNS, DELINEATORS, BARRICADES, ETC. SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS (2015) AND STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION MUTCD 2014 REV 2.
  2. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, LEGENDS, AND ALL CONFLICTING RAISED PAVEMENT MARKERS.
  3. THE AGENCY RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN USE AND TO MAKE THE NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERCEDE THESE PLANS.
  4. THE CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY THE ENGINEER.
  5. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED TRANSIT SERVICES, FIRE, AND POLICE SERVING THE AREA AT LEAST 14 DAYS PRIOR TO EACH CONSTRUCTION PHASE.
  6. THE CONTRACTOR SHALL NOTIFY THE DETOUR ENGINEER AT (626) 300-4855. 14 DAYS IN ADVANCE OF THE START OF EACH PHASE OF TRAFFIC CONTROL.
  7. THE CONTRACTOR SHALL PROVIDE AND INSTALL DELINEATORS, BARRICADES AND FLASHING ARROW SIGNS AS SHOWN ON THE PLANS.
  8. EXISTING SIGNS THAT ARE IN CONFLICT WITH THESE PLANS SHALL BE REMOVED OR COVERED BY THE CONTRACTOR.
  9. THE CONTRACTOR IS RESPONSIBLE IN MAINTAINING THE TRAFFIC CONTROL SYSTEM SHOWN ON THESE PLANS.
  10. THE CONTRACTOR SHALL MAINTAIN DRIVEWAY AND PEDESTRIAN ACCESS AT ALL TIMES.
  11. THE CONTRACTOR SHALL BE REQUIRED TO REPLACE STRIPING AND MARKINGS TO THEIR ORIGINAL CONDITION AFTER COMPLETION OF CONSTRUCTION.

- ### LEGEND
- WORK AREA
  - TYPE III BARRICADE WITH SIGN
  - POST TUBE DELINEATOR(28") .
  - FLASHING ARROW SIGN.
  - SIGNALIZED INTERSECTION.
  - nts - NOT TO SCALE

### SIGN LEGEND

W20-1	W20-5(RT)	W20-5(LT)	W4-2(RT)	W4-2(LT)	R3-5(RT)	G20-2	C30(CA)	R3-2	R3-1	M4-10(LT)	M4-10(RT)	M4-9b	W1-3 LT
R4-7a	R4-8a	R9-3bp (RT/LT)	W12-1	W20-4	W3-4	C9A(CA)	W1-4(LT)	W1-4(RT)	W1-6(LT)	W1-6(RT)	R3-6	R3-7(RT)	



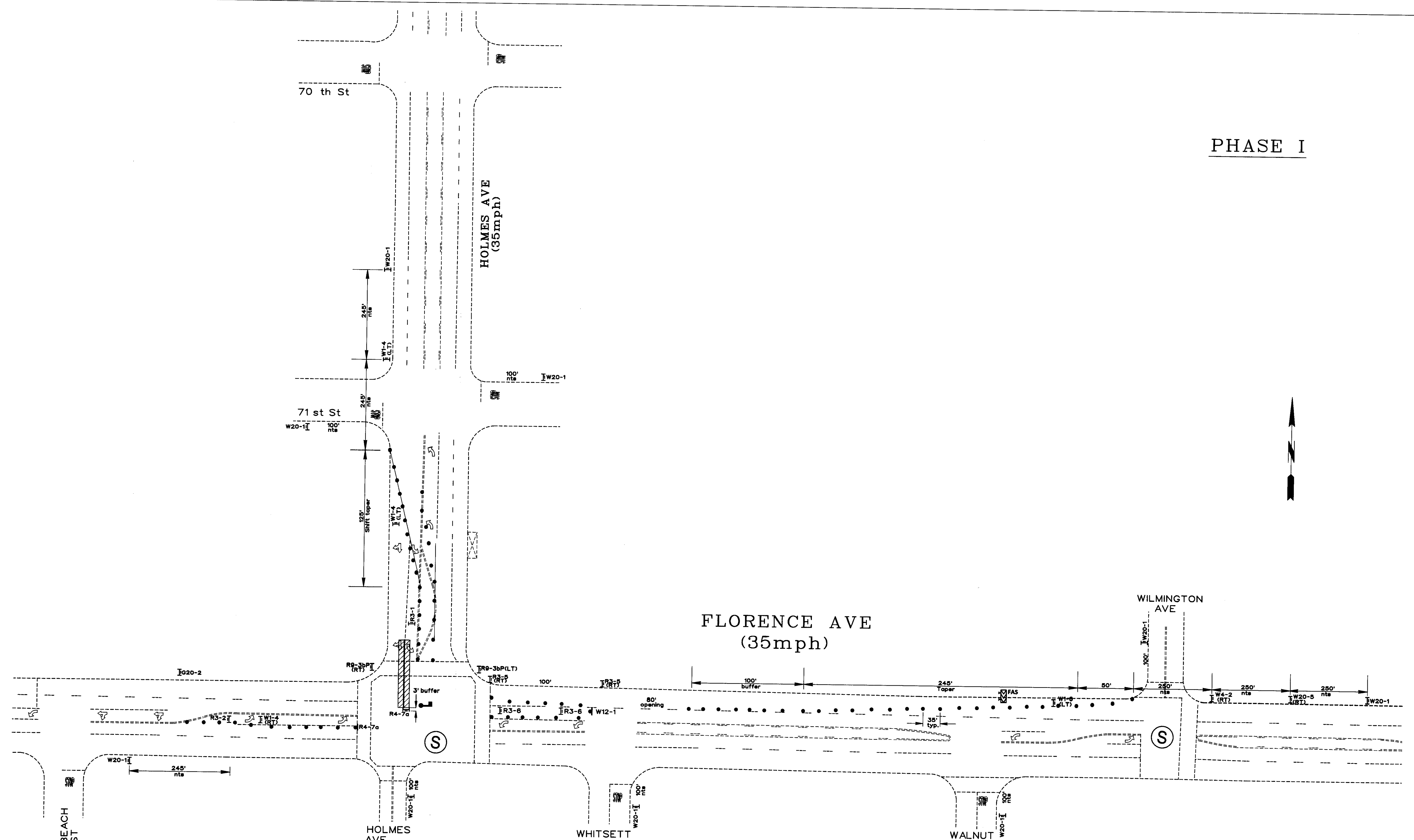
SUBMITTED BY: *Jasper Junio* DATE: 9/5/17  
 APPROVED BY: *[Signature]* DATE: 9/5/17

DATE	MK	DESCRIPTION

LOS ANGELES COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 TRAFFIC AND LIGHTING DIVISION  
**TRAFFIC CONTROL PLAN**  
**FRANKLIN D. ROOSEVELT PARK**  
**WHITSETT AVENUE**  
 PCA F21812149 SCALE: NTS SHT.1 OF 4

DRAWN BY: A. HASAN

PHASE I



DRAWN BY: A. HASAN



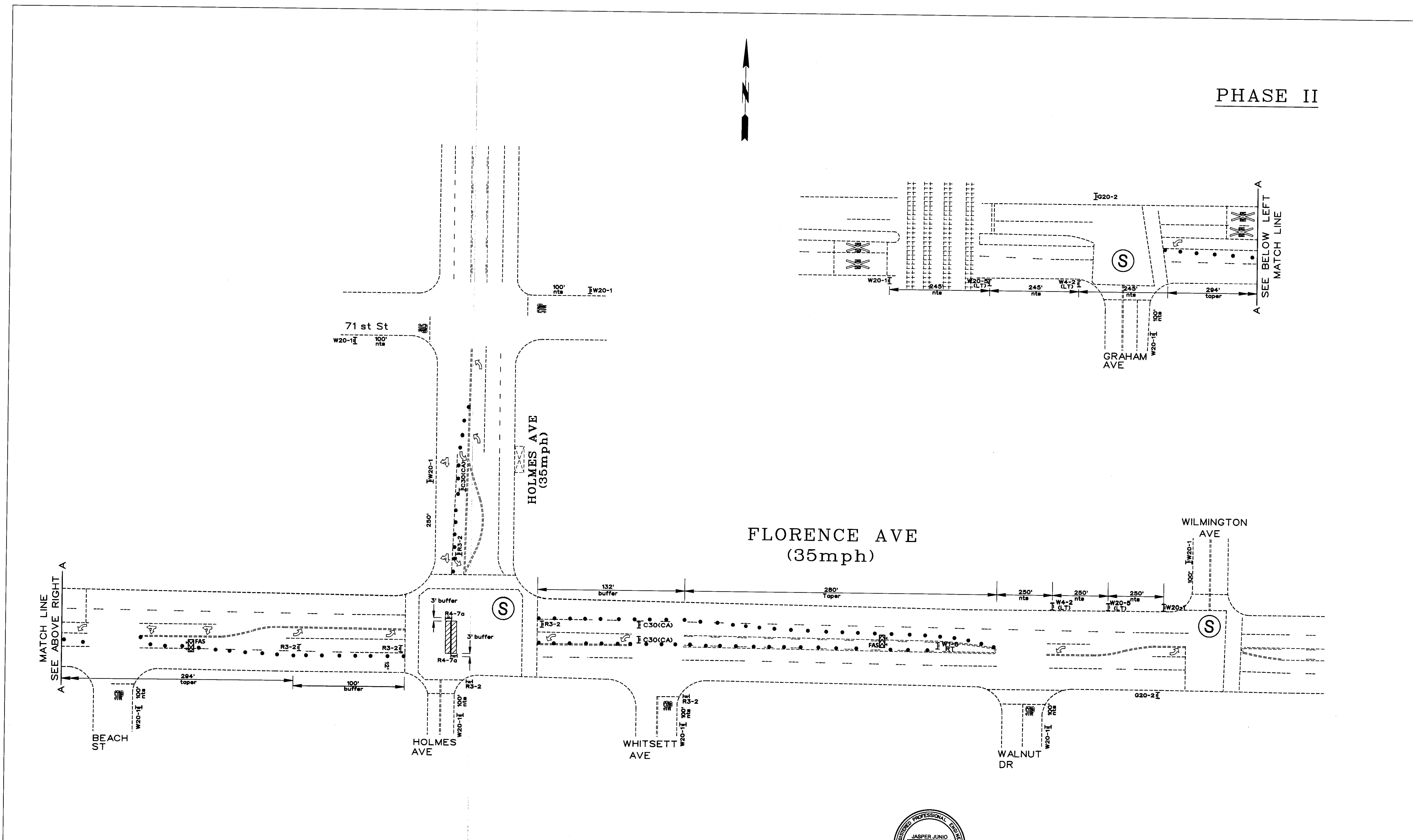
SUBMITTED C 66741  
 BY *Jasper Junio* 9/5/17 DATE  
 APPROVED  
 BY *[Signature]* 9/5/17 DATE

DATE	MK	DESCRIPTION

LOS ANGELES COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 TRAFFIC AND LIGHTING DIVISION  
 TRAFFIC CONTROL PLAN  
 FRANKLIN D. ROOSEVELT PARK  
 HOLMES AVENUE

PCA F21812149 SCALE: 1"=40' SHT. 2 OF 4

PHASE II



DRAWN BY: A.HASAN

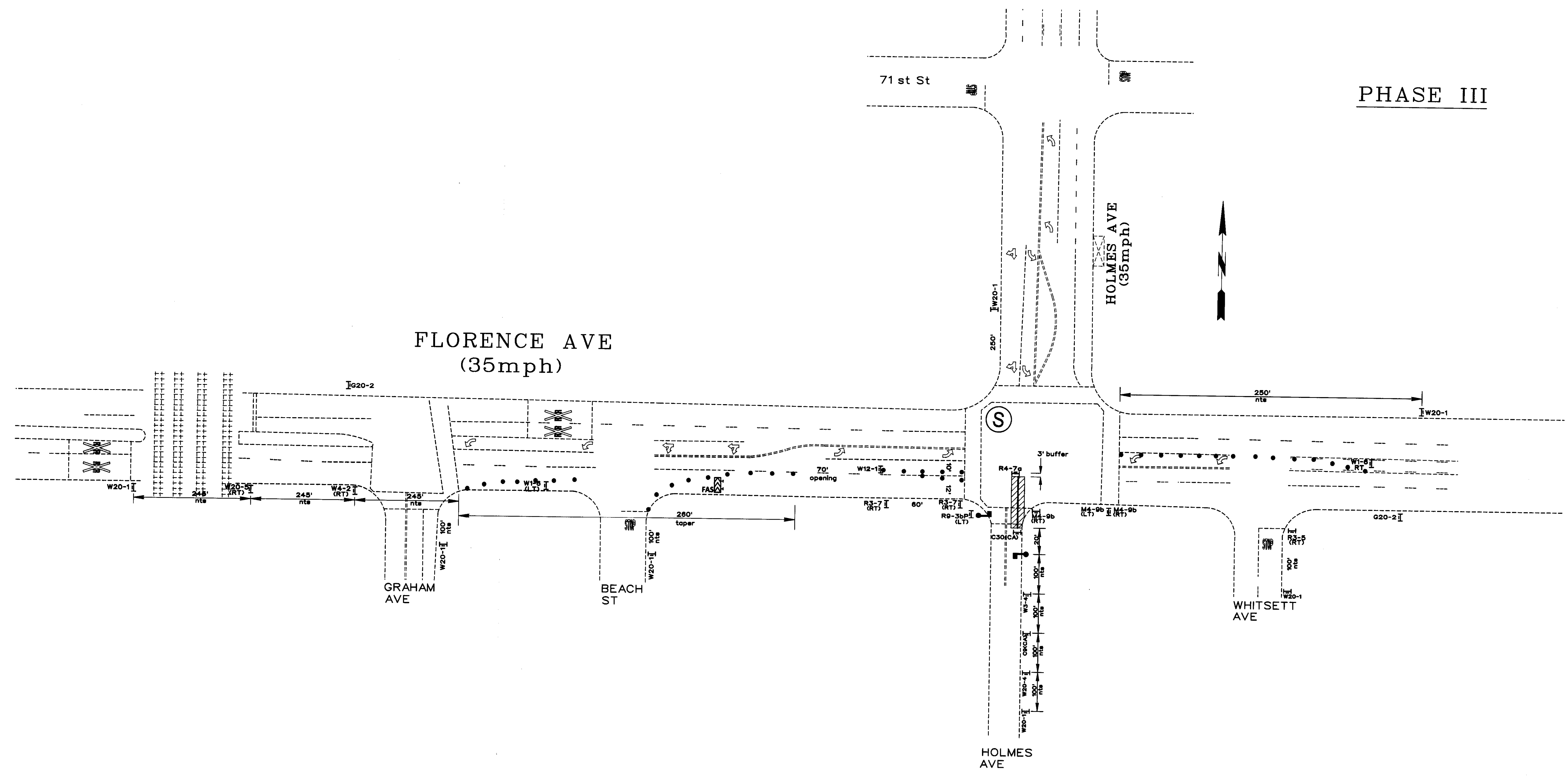


SUBMITTED BY: *[Signature]* C 86741  
 DATE: 9/5/17  
 APPROVED BY: *[Signature]*  
 DATE: 9/5/17

DATE	MK	DESCRIPTION

LOS ANGELES COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 TRAFFIC AND LIGHTING DIVISION  
 TRAFFIC CONTROL PLAN  
 FRANKLIN D. ROOSEVELT PARK  
**HOLMES AVENUE**  
 PCA F21812149 SCALE: 1"=40' SHT. 3 OF 4

PHASE III



DRAWN BY: A. HASAN

SUBMITTED C 66741  
 BY *[Signature]* 9/5/17 DATE  
 APPROVED  
 BY *[Signature]* 9/5/17 DATE

DATE	MK	DESCRIPTION

LOS ANGELES COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 TRAFFIC AND LIGHTING DIVISION  
 TRAFFIC CONTROL PLAN  
 FRANKLIN D. ROOSEVELT PARK  
**HOLMES AVENUE**  
 PCA F21812149 SCALE: 1"=40' SHT. 4 OF 4