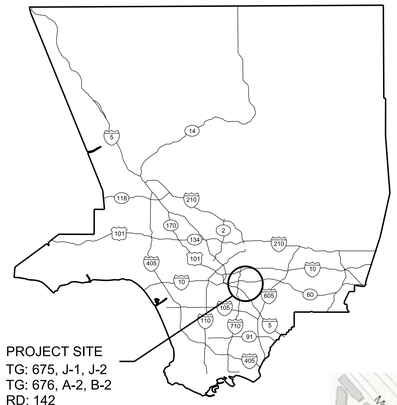
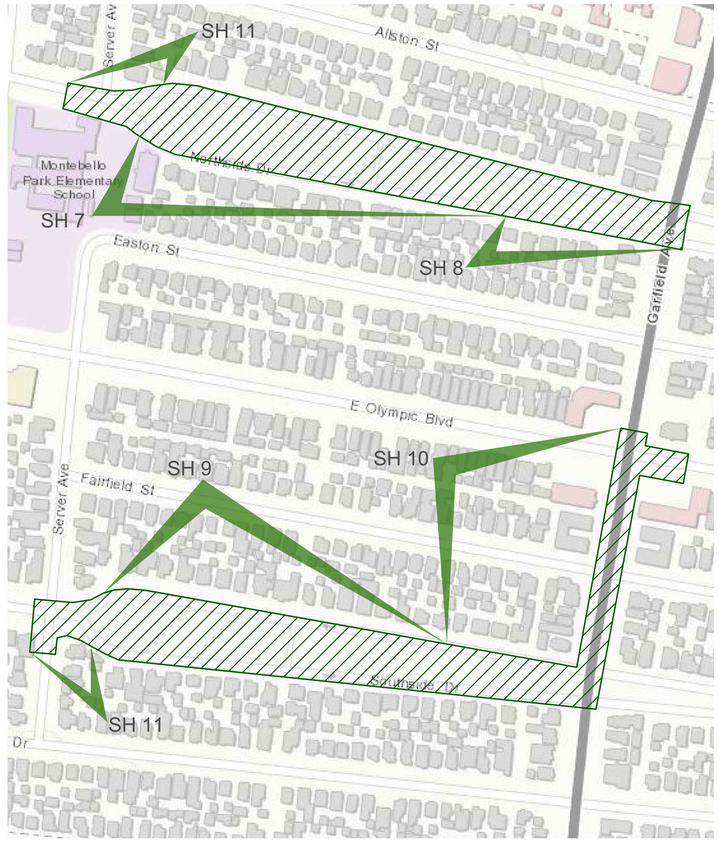


PROJECT SITE
TG: 675, J-1, J-2
TG: 676, A-2, B-2
RD: 142

VICINITY MAP

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT



INDEX TO PROJECT PLANS

UTILITIES

GAS: SOUTHERN CALIFORNIA GAS COMPANY
POWER: SOUTHERN CALIFORNIA EDISON
SEWER: SANITATION DISTRICT OF LOS ANGELES COUNTY
TELEPHONE: AT&T
WATER: CALIFORNIA WATER SERVICE COMPANY

REFERENCES

MONTEBELLO LMD - PHASE II INFILTRATION FEASIBILITY INVESTIGATION (DATED 12/04/17)
SURVEY FIELD NOTES: PWFB 1124 PAGES 2921-2962, 2969-2977

LOCATION	85TH PERCENTILE 24-HR CAPTURE VOLUME [AC-FT]	DRAINAGE AREA [AC]	85TH PERCENTILE DESIGN FLOW [CFS]	85TH PERCENTILE PEAK FLOW (DRAINAGE AREA) [CFS]	NUMBER OF 52"-INNER DIAMETER DRY WELLS
MONTEBELLO PKWY DRY WELLS, LINE A-1	3.30	87.4	3.19	5.95	14
MONTEBELLO PKWY DRY WELLS, LINE A-2	0.25	8	0.23	0.77	1
STRUCTURAL CELL MODULES AND DRY WELLS, LINES A-3, A-4, A-5, AND A-6	0.57	17.3	0.29	0.57	4
SOUTHSIDE DR DRY WELLS, LINE B-1	0.66	18.3	2.1	2.1	6
NORTHSIDE DR DRY WELLS, LINE C-1	8.46	2900	8.09	288	37
SOUTHSIDE DR DRY WELLS, LINE D-1	8.36	2900	7.73	288	38
NORTHSIDE DR AT SERVER AVE, LINE E-1	0.15	17.3	0.18	1.65	1
SOUTHSIDE DR AT SERVER AVE, LINE F-1	0.38	32.5	0.61	3.38	2
TOTAL	22.13	-	-		103

VOLUME OF STRUCTURAL CELL MODULES [CY]
108

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ

811 Know what's below. Call before you dig.

NORTH

KEY MAP
NOT TO SCALE

APPROVED BY MARK PESTRELLA, DIRECTOR OF PUBLIC WORKS
DEPUTY DIRECTOR — DATE 7/10/2018
RECOMMENDED BY:
ASSISTANT DEPUTY DIRECTOR — DATE 7/10/2018
SUBMITTED BY:
DESIGN TEAM I — DATE 7/10/2018

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS
08/27/19	1	ADDED SCE UTILITY RELOCATION PLAN TO PLAN SET AND INDEX

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER RAVE — C 84117 — CIVIL — STATE OF CALIFORNIA
PROJECT ENGINEER — DATE 07/10/18

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT

TITLE SHEET
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 1 OF ~~26~~ 27 ■

AS BUILT DRAWINGS ■ ~~ADDENDUM NO. 1,~~ ~~PAGE OF~~

PLAN DR

GENERAL NOTES

1. PRIME CONTRACTOR LICENSE REQUIRED: CLASS A
2. STANDARD PLANS REFERENCED ARE PER THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC) UNLESS OTHERWISE NOTED.
3. ALL FIELD BOOK REFERENCES PERTAIN TO LOS ANGELES COUNTY PUBLIC WORKS FIELD BOOKS, UNLESS OTHERWISE NOTED.
4. ELEVATIONS SHOWN ARE IN FEET BASED ON LOS ANGELES COUNTY RIVERA QUAD, 2005 ADJUSTMENT, NAVD 1988 DATUM. COORDINATES SHOWN ARE NAD 83, CA, ZONE 5, EPOCH 2007.
5. ALL DISTURBED MONUMENTS AND BENCHMARK MARKERS WITHIN THE PROJECT LIMITS SHALL BE REPLACED AT THEIR PRE-CONSTRUCTION LOCATION AND ELEVATION UNLESS OTHERWISE DIRECTED BY THE AGENCY.
6. STATIONS SHOWN ON THE PLANS ARE ALONG CENTERLINE OF CONDUIT OR ON A LINE NORMAL TO CENTERLINE OF CONDUIT.
7. STATIONS AND INVERT ELEVATIONS OF PIPE INLETS SHOWN ON THE PROFILES ARE AT THE INSIDE FACE OF THE CONDUIT, UNLESS OTHERWISE SHOWN.
8. REFER TO THIS SHEET FOR TYPICAL CATCH BASIN CONNECTOR PIPE PROFILE.
9. PIPE CONNECTIONS TO STORM DRAIN SHALL CONFORM TO SPPWC STANDARD PLAN NO. 335, UNLESS OTHERWISE NOTED.
10. ALL PIPE IN OPEN TRENCH SHALL BE BEDDED ACCORDING TO LACPW STANDARD PLAN 3080, CASE 3, UNLESS OTHERWISE NOTED. "W" VALUES SHALL BE AS SPECIFIED ON STANDARD PLAN 3080 FOR CASE 3 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.
11. 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 LACPW STANDARD PLAN 3080, NOTE 4.
12. ALL NEW AND EXISTING CATCH BASINS SHALL INCLUDE A CONNECTOR PIPE SCREEN (CPS) AT EACH OUTLET.
13. CATCH BASIN MANHOLE SHALL BE LOCATED ON THE OPPOSITE SIDE OF THE CONNECTOR PIPE OUTLET.
14. ~~MANHOLES SHALL USE SPPWC STANDARD PLAN NO. 630 OR 633 FOR THE "FRAME AND COVER," WHICHEVER APPLIES, AND 635 FOR THE "STANDARD DROP STEP". STORM DRAIN MANHOLE COVERS SHALL BE CAST WITH THE LETTER "D" AT THE CENTER OF THE COVER AND THE LETTERS "L,A,C,F,C,D," SHALL BE CAST BELOW THE LETTER "D" IF OWNED BY LACFCD. CATCH BASIN MANHOLE COVERS SHALL BE CAST WITH THE LETTERS "L,A,C,F,C,D," AT THE CENTER OF THE COVER IF OWNED BY LACFCD, THE LETTER SIZE SHALL BE 1-INCH HIGH.~~
15. ALL 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 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.
16. LOCATIONS OF CATCH BASIN CONNECTOR PIPE JUNCTIONS WITH CATCH BASINS, AS SHOWN ON THE PLANS, ARE SCHEMATIC. IT IS INTENDED THAT SUCH JUNCTIONS BE LOCATED AT THE DOWNSTREAM ENDS OF THE CATCH BASINS, UNLESS INDICATED OTHERWISE.
17. MONOLITHIC CATCH BASIN CONNECTIONS, IF APPLICABLE, SHALL BE CONSTRUCTED PER SPPWC STANDARD PLAN NO. 308.
18. FOR LOCAL DEPRESSION, SPPWC STANDARD PLAN NO. 313 SHALL BE USED. UNLESS OTHERWISE NOTED, H SHALL EQUAL 4 INCHES FOR CASES A, B, C, AND D; AND 2 INCHES FOR CASES E, F, AND G.
19. CURB FACE SHALL BE 8 INCHES AT THE ENDS OF LOCAL DEPRESSIONS WHERE THERE IS NO EXISTING CURB.
20. THE EXISTING PAVEMENT ADJACENT TO LOCAL DEPRESSIONS OR OTHER IMPROVEMENTS SHALL BE REMOVED AND REPLACED TO A MINIMUM OF 2 FEET FROM THE STRUCTURE.
21. 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.
22. COMPACTION EQUIPMENT USED TO PLACE BACKFILL MUST NOT EXCEED 35,000 LBS.
23. ALL GALVANIZED STEEL SHALL BE HOT DIPPED.
24. ALL ANCHOR BOLTS SHALL BE GALVANIZED AND HOT DIPPED.
25. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE THE PROPERTY OF THE OWNERS LISTED ON SHEET 1, UNLESS OTHERWISE NOTED.
26. EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND ALL UTILITIES CROSSING THE TRENCH SHALL BE TEMPORARILY SUPPORTED TO THE SATISFACTION OF THE OWNER.
27. WHERE THE UTILITIES ARE INDICATED ON THE PLANS TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH SPPWC STANDARD PLAN NO. 224, UNLESS OTHERWISE INDICATED.
28. OVERHEAD UTILITY LINES ARE NOT SHOWN ON THE PROJECT PLANS, WHICH MAY IMPACT THE CONTRACTOR'S OPERATIONS.
29. WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL INSTALL A BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER (RPM) ON THE FINISHED SURFACE AT EACH FIRE HYDRANT LOCATION PER CALIFORNIA 2014 MUTCD PART 3, FIGURE 3B-102 (CA), AS DESCRIBED IN THE SPECIAL PROVISIONS.
30. EXISTING TREES SHALL BE REMOVED ONLY IF DESIGNATED BY SYMBOL "R." THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
31. STEEL STEPS PLACED IN MANHOLES WITH 24" DIAMETER SHAFTS SHALL HAVE A WIDTH OF 16", DEPTH OF 5", AND VERTICAL SPACING OF 12". STEEL STEPS PLACED ELSEWHERE SHALL HAVE A WIDTH OF 16", DEPTH OF 7", AND VERTICAL SPACING OF 12".

NON-STANDARD ABBREVIATIONS

ABBREVIATION	WORD OR WORDS
ADJ	ADJUST, ADJUSTMENT
AP	ANGLE POINT
AVE	AVENUE
BLVD	BOULEVARD
BM	BENCH MARK
BW	BACK OF WALK
C&G	CURB AND GUTTER
CA	CALIFORNIA
CALTRANS	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORATION
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CONN	CONNECTOR
CP	CONNECTOR PIPE
CPS	CONNECTOR PIPE SCREEN
CY	CUBIC YARD
D/S	DOWNSTREAM
DR	DRIVE
DWG	DRAWING
E/O	EAST OF
E	EAST, ELECTRIC
EFL	EFFLUENT
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATION
EX	EXISTING
FG	FINISHED GRADE
FH	FIRE HYDRANT
FS	FINISHED SURFACE
G	GAS
GC	GRADE CHANGE
GR	GRADE
GV	GAS VALVE
GW	GUY WIRE
H	HIGH
HORIZ	HORIZONTAL
HW	HOUSEWALK
INCL	INCLUDING
INF	INFLUENT
INT	INTERSECTION
INV	INVERT
JS	JUNCTION STRUCTURE
L	LENGTH
LACPW	LOS ANGELES COUNTY PUBLIC WORKS
LACFCD	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LD	LOCAL DEPRESSION
LF	LINEAR FEET
LG	LONG
MECH	MECHANICAL
MOD	MODIFIED
MON	MONITORING
MTL	MATERIAL
N	NORTH
N/O	NORTH OF
NAD	NORTH AMERICA DATUM
NAVD	NORTH AMERICA VERTICAL DATUM
NE	NORTHEAST
NW	NORTHWEST
PB	PULL BOX
PERF	PERFORATED
PG	PAGE
PI	POINT OF INTERSECTION
PKWY	PARKWAY
PL	PLACE
PP	POWER POLE
PROP	PROPOSED
PWFB	PUBLIC WORKS FIELD BOOK
RD	ROAD DIVISION
RECONST	RECONSTRUCT
RELOC	RELOCATE
RESURF	RESURFACE, RESURFACING
RSP	REVISED STANDARD PLAN
RU	UTILITY TO BE RELOCATED BY OWNER
S	SLOPE, SOUTH
S/O	SOUTH OF
SCH	SCHEDULE
SD	STORM DRAIN
SE	SOUTHEAST
SH	SHEET
SF	SQUARE FEET
SL	STREET LIGHT
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
ST	STREET
STA	STATION
SW	SOUTHWEST
SWR	SANITARY SEWER
SWR MH	SANITARY SEWER MANHOLE
TC	TOP OF CURB
TG	THOMAS GUIDE
TL	TRANSIT LINE
TOT	TOTAL

NON-STANDARD ABBREVIATIONS (CONTINUED)

ABBREVIATION	WORD OR WORDS
TS	TRAFFIC SIGNAL, TRANSITION STRUCTURE
U/S	UPSTREAM
V_i	INLET V-DEPTH
V_{od}	OUTLET V-DEPTH TO DRYWELL
V_{om}	OUTLET V-DEPTH TO MAINLINE
VAR	VARIABLE, VARIES
VERT	VERTICAL
W	WATER, WEST, WIDE
W/O	WEST OF
WM	WATER METER
WV	WATER VALVE
WY	WAY
Ø	DIAMETER

STANDARD PLANS

SPPWC, 2012 EDITION

100-2	TOPOGRAPHY SYMBOLS AND STANDARD ABBREVIATIONS
101-2	ABOVEGROUND UTILITIES LOCATION IN PARKWAY
112-2	CURB AND SIDEWALK JOINTS
120-2	CURB AND GUTTER - BARRIER
121-2	CURB AND GUTTER - MOUNTABLE
122-2	CROSS AND LONGITUDINAL GUTTERS
132-3	CONCRETE PAVEMENT REPLACEMENT
133-3	ASPHALT CONCRETE PAVEMENT REPLACEMENT
134-2	CONCRETE PAVEMENT JOINT DETAILS
224-2	SUPPORTS FOR CONDUITS ACROSS TRENCHES
300-3	CURB OPENING CATCH BASIN
302-3	CURB OPENING CATCH BASIN WITH GRATING(S)
308-2	MONOLITHIC CATCH BASIN CONNECTION
309-2	CATCH BASIN REINFORCEMENT
310-3	CATCH BASIN FACE PLATE ASSEMBLY AND PROTECTION BAR
312-4	CATCH BASIN MANHOLE FRAME AND COVER
313-3	LOCAL DEPRESSIONS AT CATCH BASINS
320-2	MANHOLE PIPE-TO-PIPE [MAIN LINE ID = 36" OR LARGER]
321-2	MANHOLE PIPE-TO-PIPE [ONE OR BOTH MAIN LINE IDS = 33" OR SMALLER]
326-2	MANHOLE SHAFT - 36" WITHOUT REDUCER
327-2	MANHOLE FOR EXISTING RCB
331-3	JUNCTION STRUCTURE - PIPE TO PIPE INLET ID > 24" OR OD >1/2" MAIN LINE ID
332-2	JUNCTION STRUCTURE - PIPE TO PIPE ID < 24"
333-2	JUNCTION STRUCTURE - PIPE TO RCB
335-2	PIPE CONNECTIONS TO EXISTING STORM DRAINS
342-2	TRANSITION STRUCTURE RCB TO PIPE
380-4	CONCRETE COLLAR FOR RCP 12" THROUGH 72"
523-2	ROOT PRUNING
630-4	24" MANHOLE FRAME AND COVER
633-4	36" MANHOLE FRAME AND COVER
635-3	STEEL STEP

LACDPW, 2000 EDITION

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
6008-1	MINIMUM PUBLIC SAFETY REQUIREMENTS FOR OPEN EXCAVATIONS

CITY OF LOS ANGELES BUREAU OF ENGINEERING

S-342-4	FRAME AND GRATING FOR CATCH BASINS (BICYCLE SAFE)

CALTRANS, 2015 EDITION

RSP A88A	CURB RAMP DETAILS (DATED 7/21/2017)
RSP A88B	CURB RAMP AND ISLAND PASSAGEWAY DETAILS (DATED 7/21/2017)

■ 14. MANHOLES SHALL USE SPPWC STANDARD PLAN NO. 630 OR 633 FOR THE "FRAME AND COVER," WHICHEVER APPLIES. STORM DRAIN MANHOLE COVERS SHALL BE CAST WITH THE LETTER "D" AT THE CENTER OF THE COVER WITH A 2.5-INCH LETTER HEIGHT. AGENCY NAME SHALL BE CAST ABOVE THE LETTER "D" FOR STORM DRAIN MANHOLE COVERS AND CAST AT THE CENTER OF THE COVER FOR CATCH BASIN MANHOLE COVERS. AGENCY NAME SHALL INCLUDE THE LETTERS "LACFCD" IF OWNED BY LACFCD, AND SHALL INCLUDE "LACPW" IF NOT OWNED BY LACFCD. THE LETTER SIZE FOR THE AGENCY NAME SHALL BE 1-INCH HIGH.

CONSTRUCTION SYMBOLS

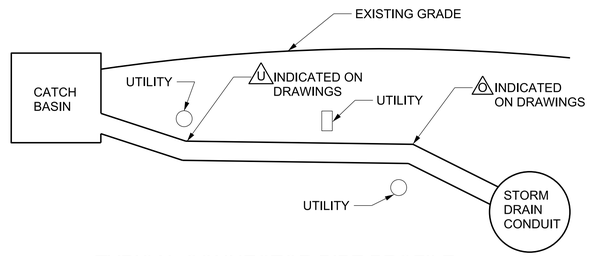
ABOVE LINE: NAME OF SECTION OR DETAIL
BELOW LINE: SHEET NUMBER OF THE REFERENCED SECTION OR DETAIL IF THE SECTION OR DETAIL IS NOT ON THE SAME SHEET

CONSTRUCTION NOTES

1. THICKNESS OF PAVEMENTS ARE INDICATED ON PLAN IN THE RESURFACING SCHEDULE TABLE AND APPLY ONLY WITHIN THE LIMITS OF EXCAVATION.
2. ALL PAVEMENT REMOVALS SHALL USE STRAIGHT LINE SAW CUTS A MINIMUM OF 1.5" DEEP.
3. AC PAVEMENT CONSTRUCTION FOR ANY TRENCH RESURFACING SHALL EXTEND A MINIMUM OF 12" BEYOND ANY TRENCH WALL (SEE TYPICAL PIPE TRENCH DETAIL FOR AC PAVEMENT ON SHEET 8). IF REMAINING AC PAVEMENT BETWEEN EDGE OF TRENCH RESURFACING AND EXISTING GUTTER, CURB, CROSS GUTTER, OR CUT LINE IS LESS THAN 12 INCHES IN WIDTH, THE REMAINING AC PAVEMENT SHALL BE COLD MILLED 2" AND REPLACED.
4. PCC PAVEMENT AND BASE CONSTRUCTION FOR ANY TRENCH RESURFACING SHALL EXTEND A MINIMUM OF 12" BEYOND ANY TRENCH WALL (SEE TYPICAL PIPE TRENCH DETAIL FOR PCC PAVEMENT ON SHEET 8). IF REMAINING CONCRETE PAVEMENT BETWEEN EDGE OF TRENCH RESURFACING AND EXISTING CONCRETE JOINT IS LESS THAN 3 FEET IN WIDTH, THE REMAINING CONCRETE PAVEMENT SHALL BE REPLACED WITH PCC ON BASE PER RESURFACING SCHEDULE.
5. PCC PAVEMENT SHALL JOIN EDGE OF ALL EXISTING VAULTS.
6. ALL AFFECTED TRAFFIC STRIPING, CURB MARKINGS, PAVEMENT MARKERS, AND LOOP DETECTORS SHALL BE REPLACED TO MATCH EXISTING UNLESS OTHERWISE NOTED.
7. ANY MAIN LINE SEWERS, MANHOLES, OR HOUSE CONNECTIONS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE TO THE SATISFACTION OF THE COUNTY ENGINEER.
8. THE PCC THICKNESS "T" FOR ALL CURB RAMPS SHALL BE 4" UNLESS OTHERWISE NOTED.

NOTES

1. THE CHANGE IN GRADE OF THE CONNECTOR PIPE SHALL OCCUR EITHER OVER OR UNDER EXISTING UTILITY. THE PARTICULAR UTILITY, AT WHICH THE CHANGE IN GRADE OCCURS, IS NOTED ON THE PROJECT PLANS. AT LOCATIONS WHERE UTILITY CROSSINGS ARE MARKED (A), THE CONNECTOR PIPE GRADE SHALL BREAK OVER THE UTILITY. AT LOCATIONS WHERE UTILITY CROSSINGS ARE MARKED (1), THE CONNECTOR PIPE GRADE SHALL BREAK UNDER THE UTILITY.
2. ON THOSE CONNECTOR PIPES WHERE CHANGE IN GRADE IS NOT INDICATED, IT IS ASSUMED THAT THE CONNECTOR PIPE SHALL BE LAID ON A STRAIGHT GRADE FROM THE CATCH BASIN TO THE STORM DRAIN WITHOUT INTERFERENCE WITH UTILITIES.
3. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS TO DETERMINE THE EXACT LOCATION AND DEPTH OF UTILITIES THAT ARE MARKED (1) OR (A), EXCEPT SANITARY SEWER UTILITIES. AFTER THE EXACT LOCATION A UTILITY HAS BEEN DETERMINED, THE GRADE AND ALIGNMENT OF THE CONNECTOR PIPE SHALL BE STAKED SO AS TO CLEAR THE UTILITY.
4. WHERE CONNECTOR PIPE HAS A GRADE CHANGE EXCEEDING 0.10 FEET PER FEET, OR DIFFERS IN DIAMETER FROM THAT OF EXISTING PIPE, USE CONCRETE COLLAR PER STANDARD PLAN 380.
5. LOCATIONS OF TEST WELLS FOR THE BORING LOGS ARE SHOWN AND MARKED ON PLANS WITH THE SYMBOL ◔.



TYPICAL CONNECTOR PIPE PROFILE
NOT TO SCALE

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS
10/06/20	1	ADDED NOTE #31.

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER RAVE — C 84117 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER 07/10/18 DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

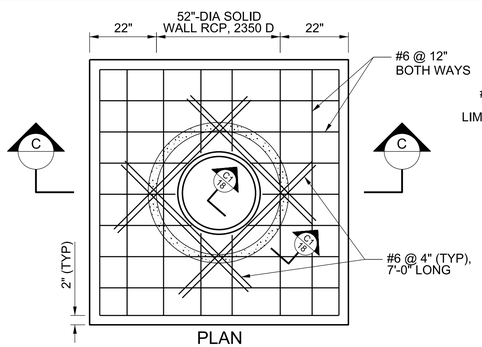
CONSTRUCTION NOTES AND LEGENDS

PROJECT ID NO. WMU0000010

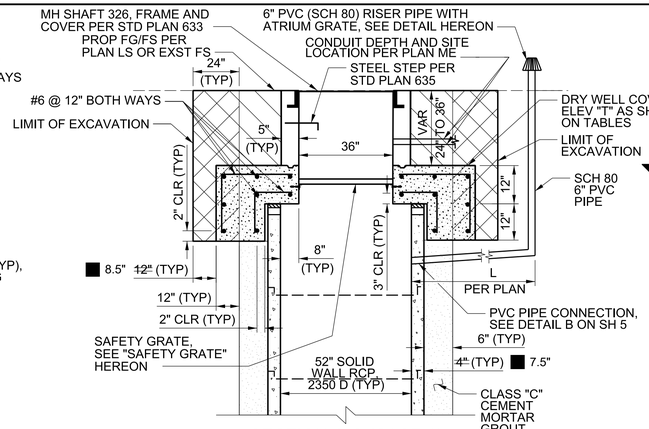
LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 2 OF 26 27

AS BUILT DRAWINGS

PLAN DR



PLAN
DRY WELL COVER
NOT TO SCALE



SECTION C-C (CASE 1)
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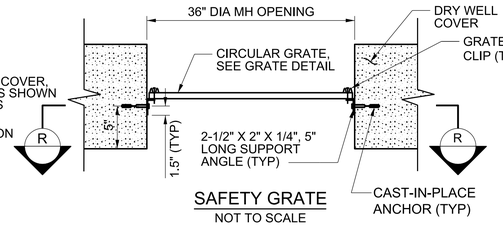

SAFETY GRATE
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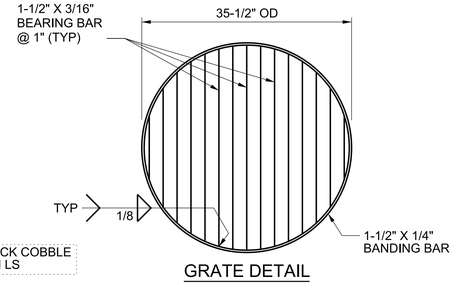

GRATE DETAIL
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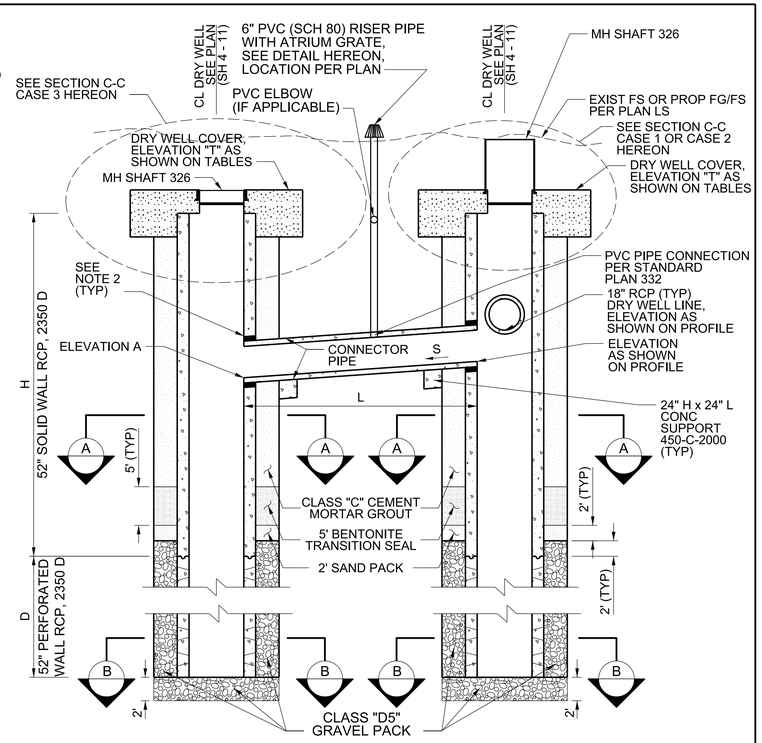
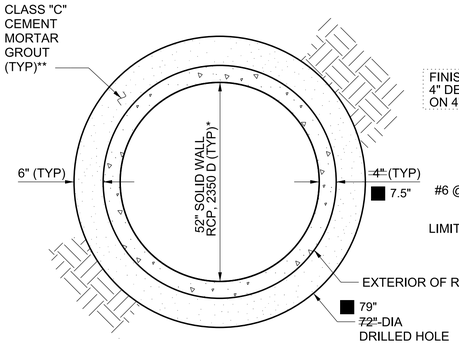
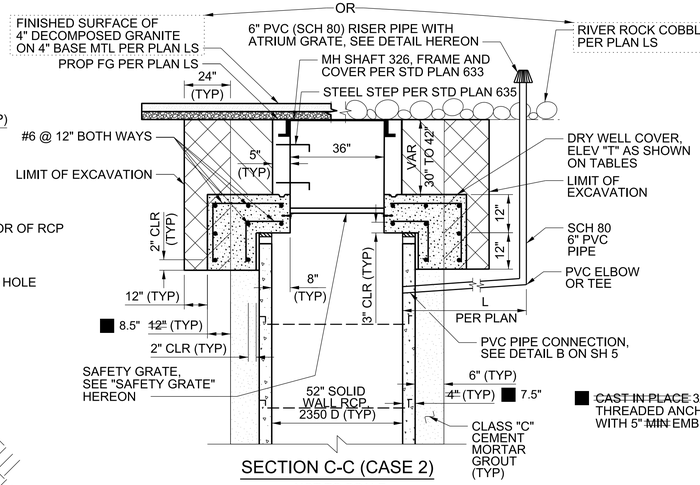


TYPICAL DRY WELL AND
DRY WELL CONNECTOR PIPE
NOT TO SCALE



SECTION A-A (SOLID WALL RCP CASING)
NOT TO SCALE



SECTION C-C (CASE 2)
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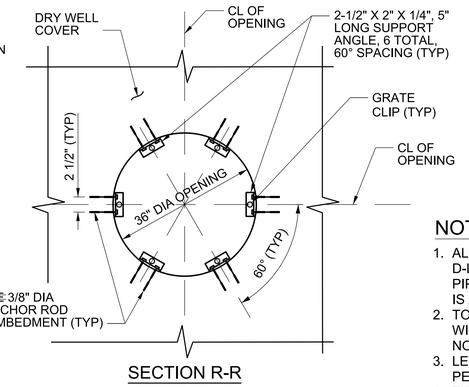

SECTION R-R
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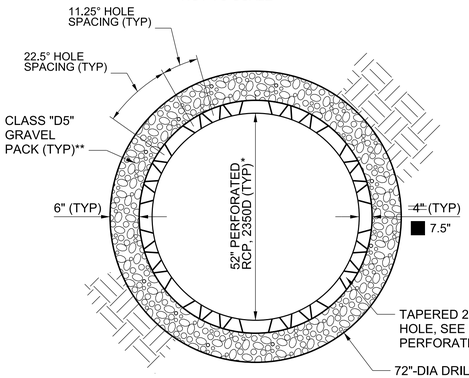

SECTION B-B (PERFORATED WALL RCP CASING)
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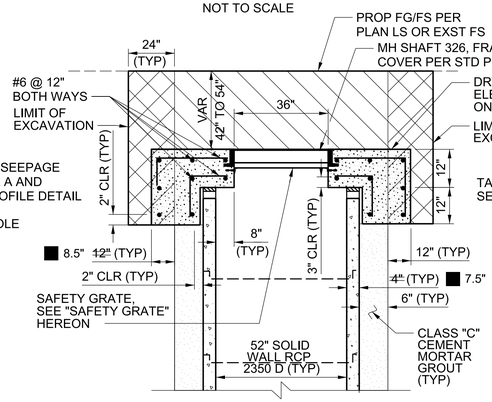
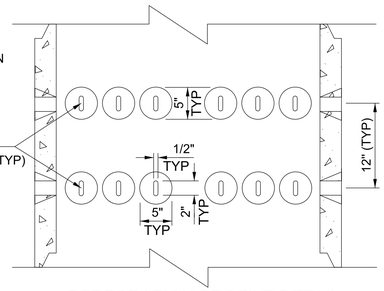
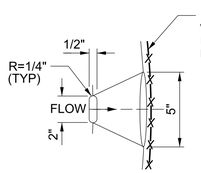


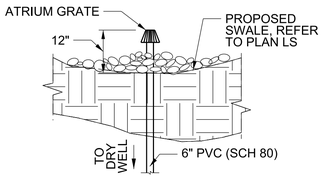
SECTION C-C (CASE 3)
NOT TO SCALE



PERFORATION PROFILE DETAIL
NOT TO SCALE



DETAIL A
NOT TO SCALE



TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL
NO SCALE

NOTES:

1. ALL CONNECTOR PIPES ARE TO BE RCP WITH A 2000 D-LOAD AND DRY WELL LINES ARE TO BE RCP WITH A D-LOAD AS SHOWN ON PROFILE. CONNECTOR PIPE DIAMETER IS AS SHOWN ON PROFILE. CONNECTOR PIPE LENGTH (L) IS AS SHOWN ON TABLES. INVERT ELEVATION OF CONNECTOR PIPE INLET (ELEVATION A) IS AS SHOWN ON TABLES. CONNECTOR PIPE SLOPE IS AS SHOWN ON TABLES.
2. TO CONNECT THE RCP TO THE DRY WELLS, CORE OUT AN OPENING THROUGH THE WALL TO BE FLUSH WITH THE INTERIOR SURFACE AND WATERTIGHT SEAL THE ANNULAR SPACE WITH HIGH STRENGTH NON-SHRINK CONCRETE REPAIR.
3. LENGTH OF THE SOLID WALL RCP CASING ("H") IS AS SHOWN ON PROFILE AND TABLES. LENGTH OF THE PERFORATED WALL RCP CASING ("D") IS AS SHOWN ON PROFILE AND TABLES.
4. THE ABOVE DETAIL IS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO TABLES ON PLAN TO INDICATE WHICH DRY WELL CASE PER SECTION C-C IS TO BE CONSTRUCTED.
5. ALL DRY WELLS TO BE CONSTRUCTED ON A 2' LAYER OF CLASS "D5" GRAVEL PACK FOR LEVELING.
6. REFER TO PLAN FOR LOCATION OF PVC RISERS THAT CONNECT TO DRY WELLS, DRY WELL LINES, AND CONNECTOR PIPES.
7. COORDINATES FOR CENTER OF DRY WELLS ARE AS SHOWN ON TABLES. ANY REVISIONS TO COORDINATES SHALL BE APPROVED BY THE ENGINEER.
8. TEMPORARY STEEL CASING SHALL BE UTILIZED TO CONSTRUCT ALL DRY WELLS.

* THE NOMINAL OUTSIDE DIAMETER OF RCP CASING IS 60 INCHES. THE TONGUE AND GROOVE JOINT OF THE SOLID WALL RCP CASING SHALL FIT WITH THAT OF THE PERFORATED RCP CASING. ~~THE FIRST RCP SECTION BEING PLACED SHALL HAVE THE TOUNGUE FACING DOWNWARD.~~

** THE MATERIAL OUTSIDE THE RCP DIFFERS PER THE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE SECTION SHOWN HEREON.

■ THE FIRST RCP SECTION SHALL BE SMOOTH-BOTTOMED RCP PLACED FLAT AGAINST THE GRAVEL PACK LEVELING-COURSE.

LEGEND

STRUCTURE EXCAVATION LIMITS

STRUCTURE BACKFILL LIMITS

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME
S. LU / L. CHAVEZ	C. RAVE	D. RADLE	EAST LA MEDIANS.DGN

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER RAE — C 84117 — CIVIL — STATE OF CALIFORNIA

07/10/18
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

LID DETAILS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 3 OF ~~26~~ 27

AS BUILT DRAWINGS

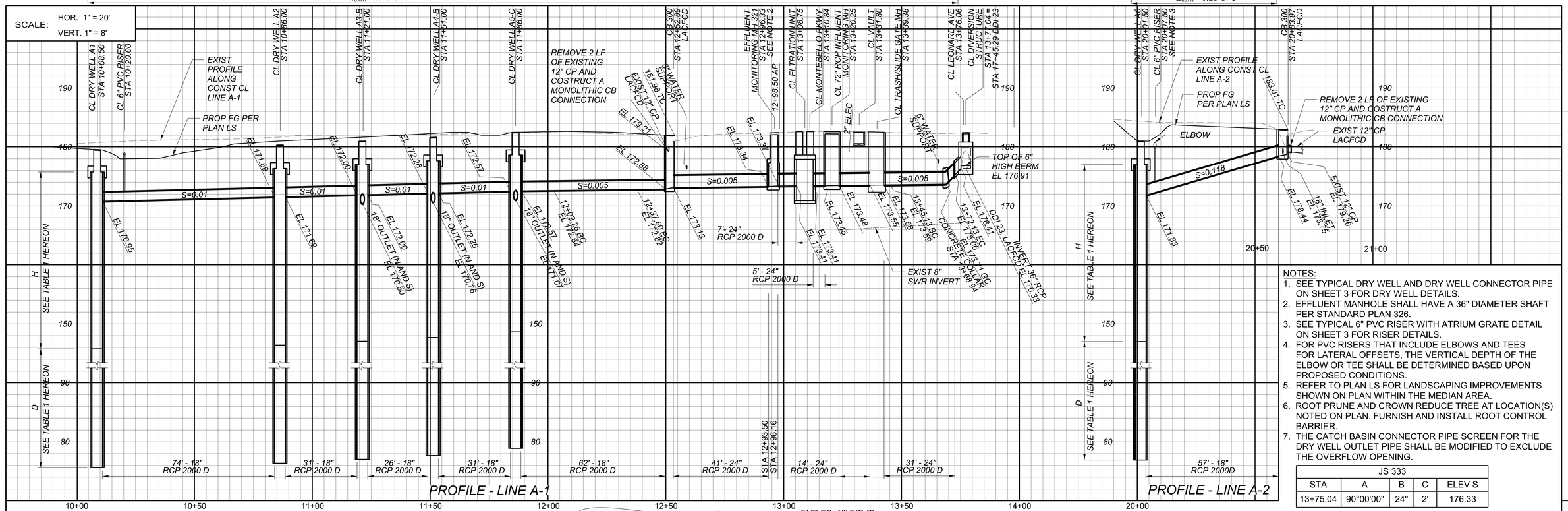
PLAN DR

NOT TO BE OWNED BY LACFCD
Q_{85TH} = 3.19 CFS

NOT TO BE OWNED BY LACFCD

NOT TO BE OWNED BY LACFCD
Q_{85TH} = 0.23 CFS

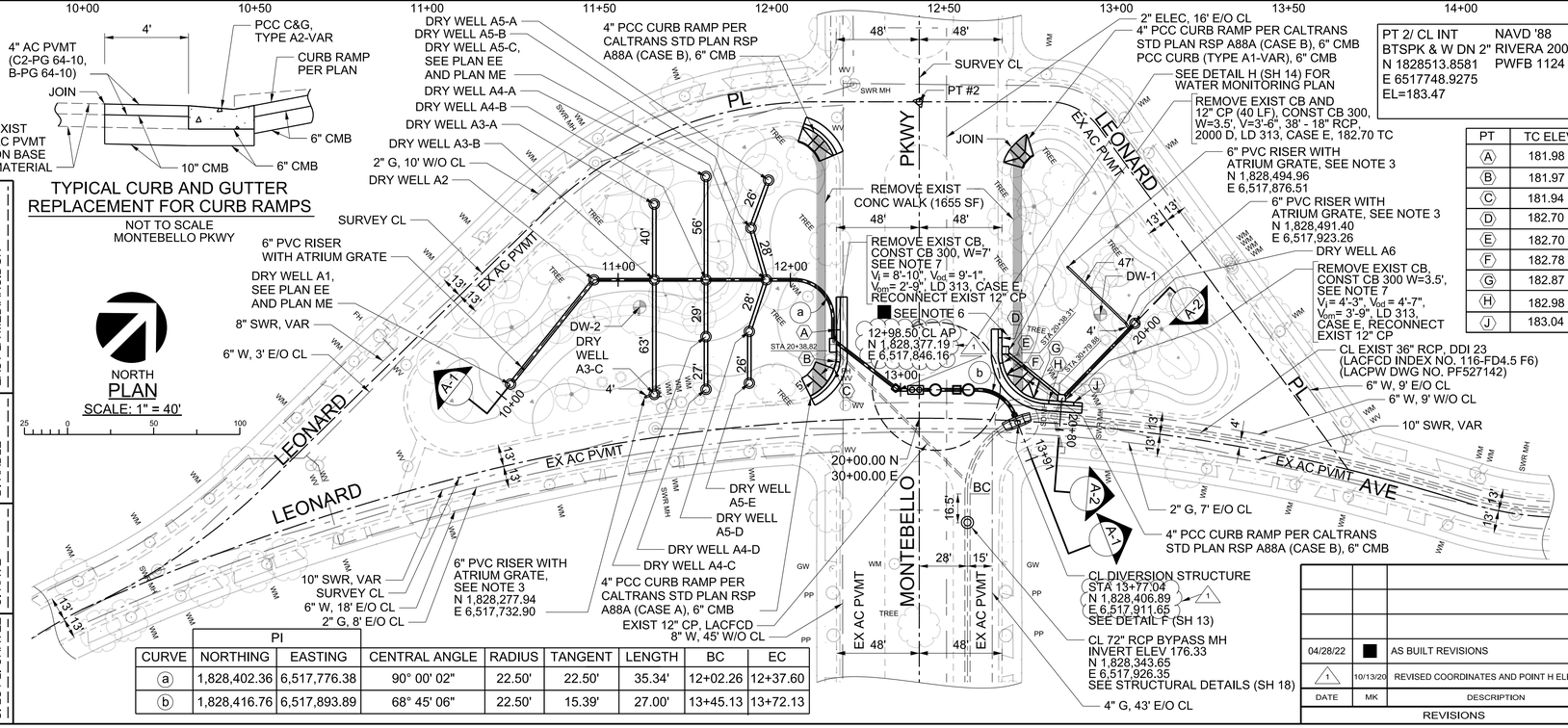
SCALE: HOR. 1" = 20'
VERT. 1" = 8'



NOTES:
1. SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
2. EFFLUENT MANHOLE SHALL HAVE A 36" DIAMETER SHAFT PER STANDARD PLAN 326.
3. SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
4. FOR PVC RISERS THAT INCLUDE ELBOWS AND TEES FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW OR TEE SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
5. REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.
6. ROOT PRUNE AND CROWN REDUCE TREE AT LOCATION(S) NOTED ON PLAN. FURNISH AND INSTALL ROOT CONTROL BARRIER.
7. THE CATCH BASIN CONNECTOR PIPE SCREEN FOR THE DRY WELL OUTLET PIPE SHALL BE MODIFIED TO EXCLUDE THE OVERFLOW OPENING.

JS 333				
STA	A	B	C	ELEV S
13+75.04	90°00'00"	24"	2'	176.33

TYPICAL CURB AND GUTTER REPLACEMENT FOR CURB RAMPS
NOT TO SCALE
MONTEBELLO PKWY



PT 2/ CL INT NAVD '88
BTSPK & W DN 2" RIVERA 2005 ADJ
N 1828513.8581 PWFB 1124 PG 1922
E 6517748.9275
EL=183.47

PT	TC ELEV	FL ELEV
A	181.98	181.31
B	181.97	181.30
C	181.94	181.27
D	182.70	182.03
E	182.70	182.03
F	182.78	182.11
G	182.87	182.20
H	182.98	182.31
J	183.04	182.37

PI								
CURVE	NORTHING	EASTING	CENTRAL ANGLE	RADIUS	TANGENT	LENGTH	BC	EC
a	1,828,402.36	6,517,776.38	90° 00' 02"	22.50'	22.50'	35.34'	12+02.26	12+37.60
b	1,828,416.76	6,517,893.89	68° 45' 06"	22.50'	15.39'	27.00'	13+45.13	13+72.13

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T	CONNECTOR PIPE ELEV A	S	L
A1	1,828,236.30	6,517,670.92	1	30'	70'	~~176.7~~	-	-	-
A2	1,828,313.80	6,517,669.57	2	30'	70'	~~177.3~~	-	-	-
A3-A	1,828,370.01	6,517,668.43	3	30'	70'	~~178.2~~	170.10	0.01	40'
A3-B	1,828,336.14	6,517,696.52	2	30'	70'	~~178.0~~	-	-	-
A3-C	1,828,284.95	6,517,738.96	2	30'	70'	~~177.3~~	169.87	0.01	63'
A4-A	1,828,401.47	6,517,681.31	3	30'	70'	~~178.4~~	170.20	0.01	56'
A4-B	1,828,355.29	6,517,719.61	2	30'	70'	~~178.6~~	-	-	-
A4-C	1,828,329.88	6,517,740.66	3	30'	70'	~~177.8~~	170.47	0.01	29'
A4-D	1,828,306.33	6,517,760.20	2	30'	70'	~~178.2~~	170.20	0.01	27'
A5-A	1,828,423.01	6,517,710.71	2	30'	70'	~~180.2~~	170.53	0.01	26'
A5-B	1,828,395.06	6,517,720.58	2	30'	70'	~~179.5~~	170.79	0.01	28'
A5-C	1,828,377.63	6,517,746.55	1	30'	70'	~~179.5~~	-	-	-
A5-D	1,828,348.24	6,517,758.11	2	30'	70'	178.6	170.79	0.01	28'
A5-E	1,828,325.14	6,517,777.26	1	30'	70'	~~179.2~~	170.53	0.01	26'
A6	1,828,494.65	6,517,927.45	2	30'	70'	~~178.0~~	-	-	-

TABLE 1 ■ SEE UPDATED ELEV T VALUES ON TABLE 1.1 (SH 26)
DRY WELLS LINES A-1 AND A-2
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT ■	RESURF PVMT ■
STA 12+62 TO STA 13+81	4"2" AC ON 6" CMB	5"3" AC ON 6" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON 1" OF B-PG 64-10.

04/28/22	■	AS BUILT REVISIONS
1	10/13/20	REVISED COORDINATES AND POINT H ELEV.
DATE	MK	DESCRIPTION
REVISIONS		

CHRISTOPHER ROYE — No. C 84117 — CIVIL — STATE OF CALIFORNIA — REGISTERED PROFESSIONAL ENGINEER

07/10/18
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
MONTEBELLO PKWY DRY WELLS LINES A-1 AND A-2
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27	PD053092	SHEET 4 OF ~~26~~ 27

DRAFTER S. LU / L. CHAVEZ
DESIGNER C. RAVE
CHECKER D. RADLE
CADD PROJECT FILE NAME EAST LA MEDIANS.DGN

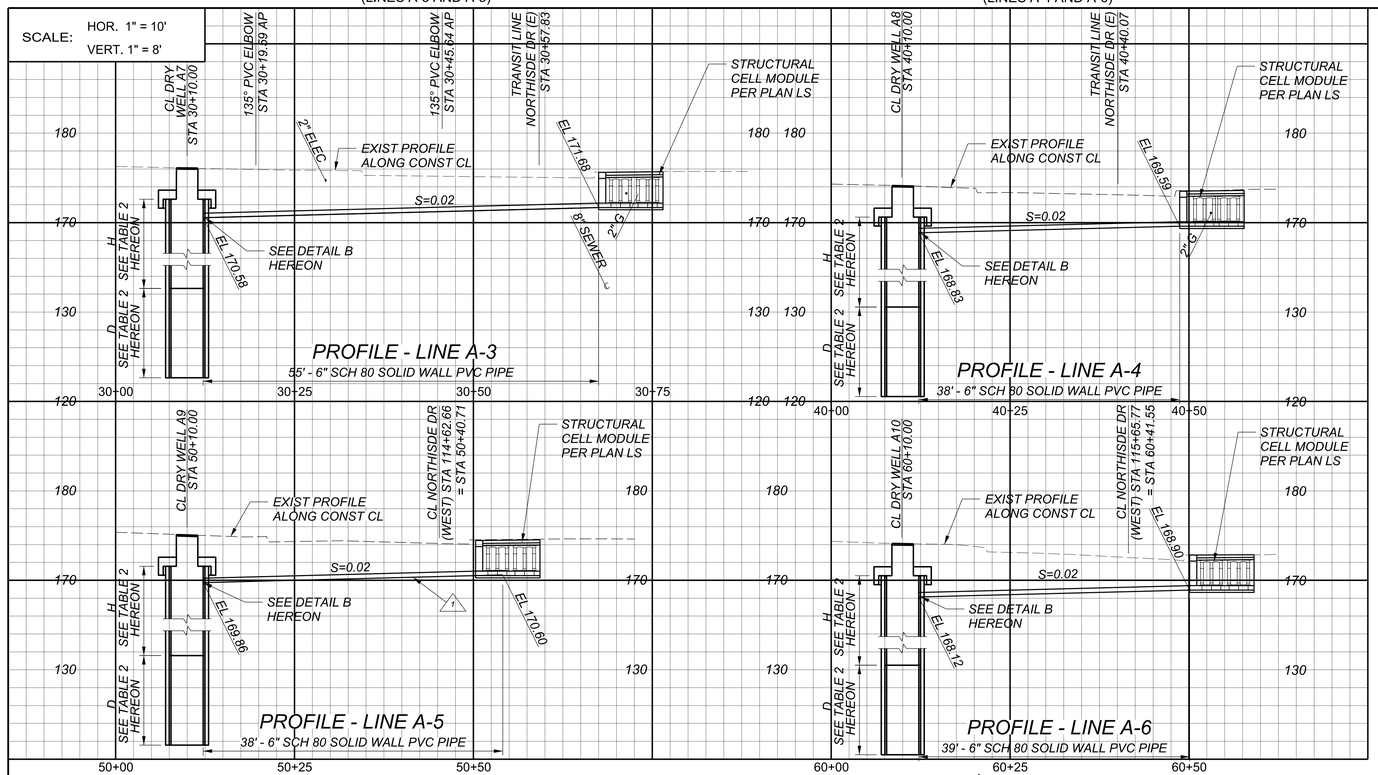
AS BUILT DRAWINGS

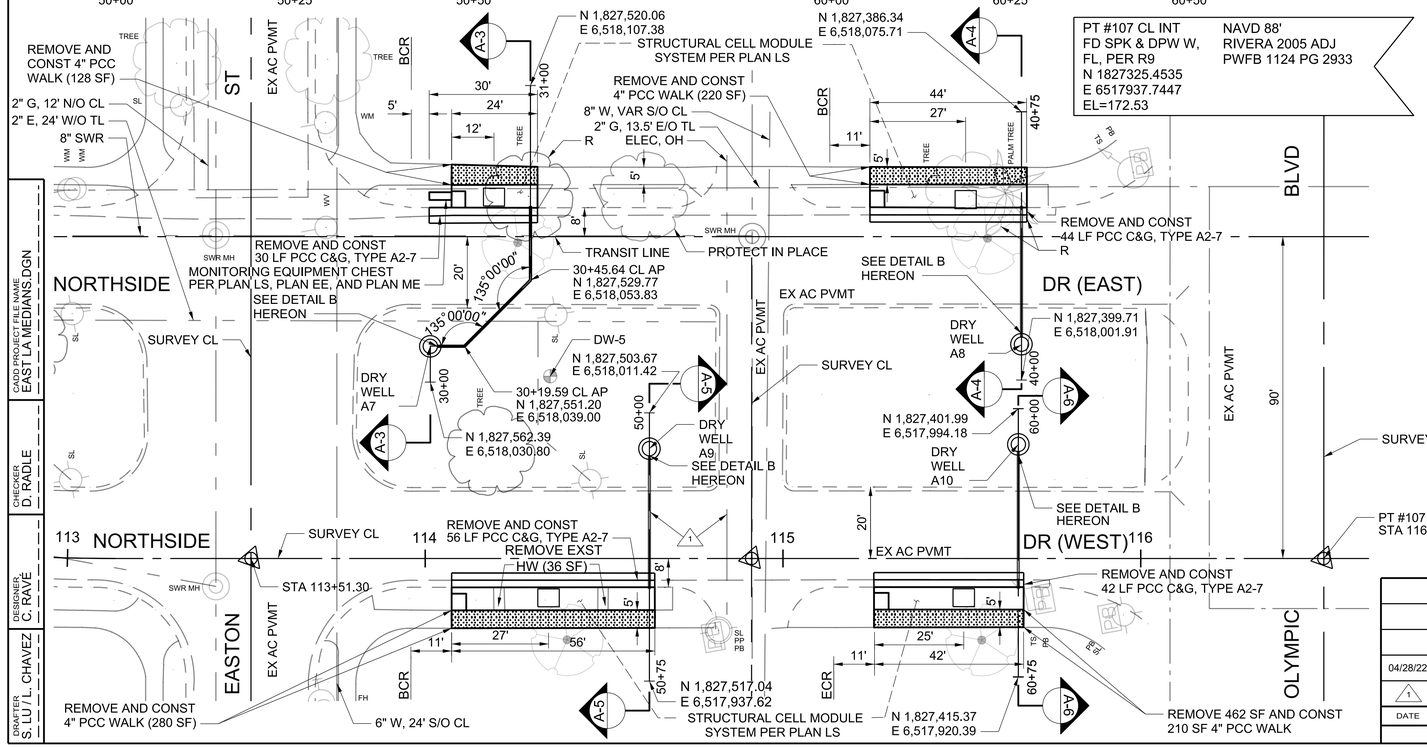
PLAN DR

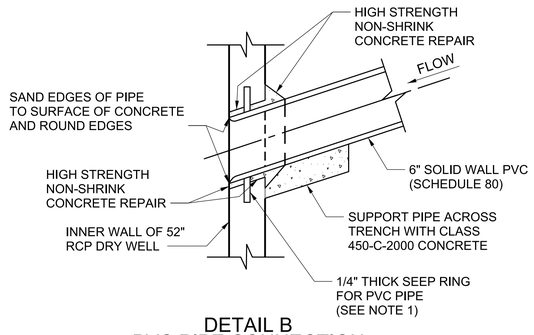
NOT TO BE OWNED BY LACFCD (LINES A-3 AND A-5)

NOT TO BE OWNED BY LACFCD (LINES A-4 AND A-6)

SCALE: HOR. 1" = 10'
VERT. 1" = 8'







DETAIL B
PVC PIPE CONNECTION
NO SCALE

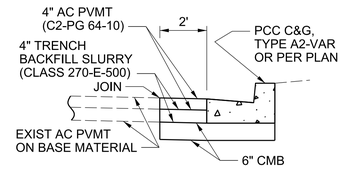
DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
A7	1,827,560.61	6,518,040.65	1	40'	10'	~~173.6~~ ■ 173.58
A8	1,827,397.93	6,518,011.75	1	40'	10'	~~171.6~~ ■ 171.48
A9	1,827,503.67	6,518,011.42	1	40'	10'	~~172.6~~ ■ 172.80
A10	1,827,403.78	6,517,984.35	1	40'	10'	~~171.5~~ 1 ■ 172.175

TABLE 2
DRY WELLS LINES A-3, A-4, A-5, AND A-6
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
STA 30+36 TO STA 30+62	4" AC ON 10" CMB	5" AC ON 10" CMB
STA 40+21 TO STA 40+44	4" AC ON 10" CMB	5" AC ON 10" CMB
STA 50+23 TO STA 50+49	4" AC ON 10" CMB	5" AC ON 10" CMB
STA 60+23 TO STA 60+46	4" AC ON 10" CMB	5" AC ON 10" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON 3" OF B-PG 64-10.

NOTES:
1. FOR PVC PIPE CONNECTIONS SHOWN ON DETAIL B, HOT AIR WELD THE SEEP RING TO THE PVC PIPE ALL AROUND THE PIPE.
2. SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
3. REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE PARKWAY AREA.



TYPICAL CURB AND GUTTER REPLACEMENT
NOT TO SCALE

NORTH
PLAN
SCALE: 1" = 20'
12.5 0 25 50

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS
1 09/16/20		DRY WELL A9 RELOCATED, PLAN, PROFILE, AND TABLE 2 UPDATED, OH ELEC LINE ADDED.

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER RAVE — C 84117 — CIVIL — STATE OF CALIFORNIA

Chris Rave 07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
NORTHSIDE DR STRUCTURAL CELL MODULES AND DRY WELLS, LINES A-3, A-4, A-5, AND A-6
PROJECT ID NO. WMU0000010

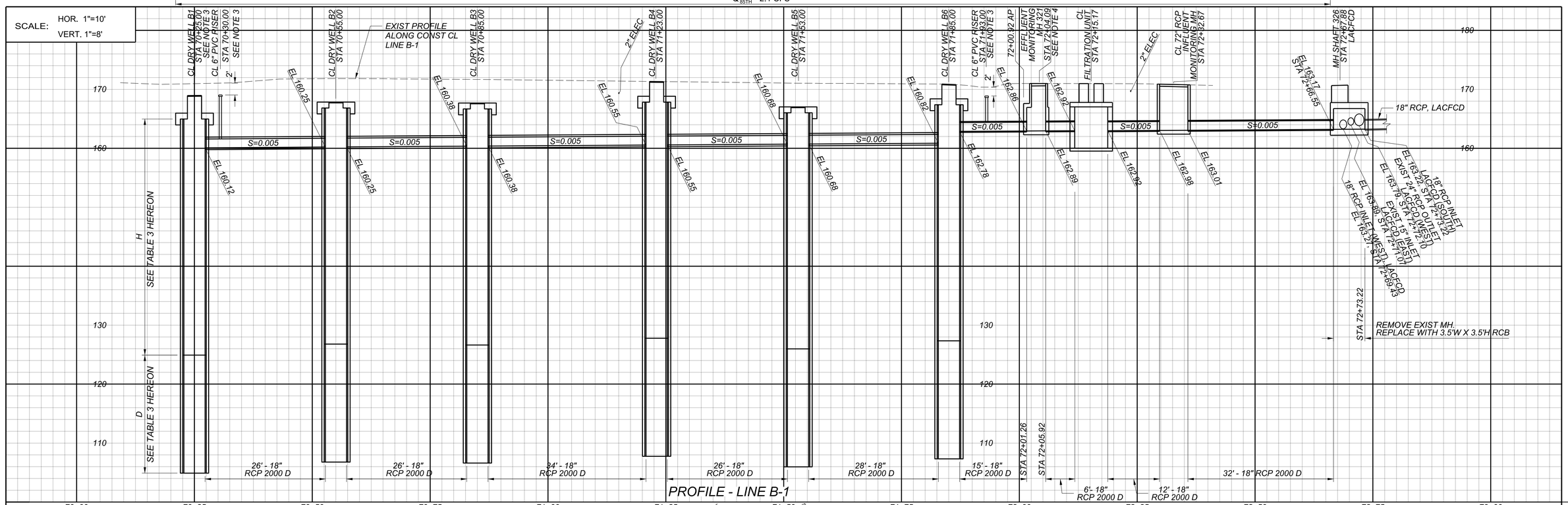
LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 5 OF ~~26~~ 27

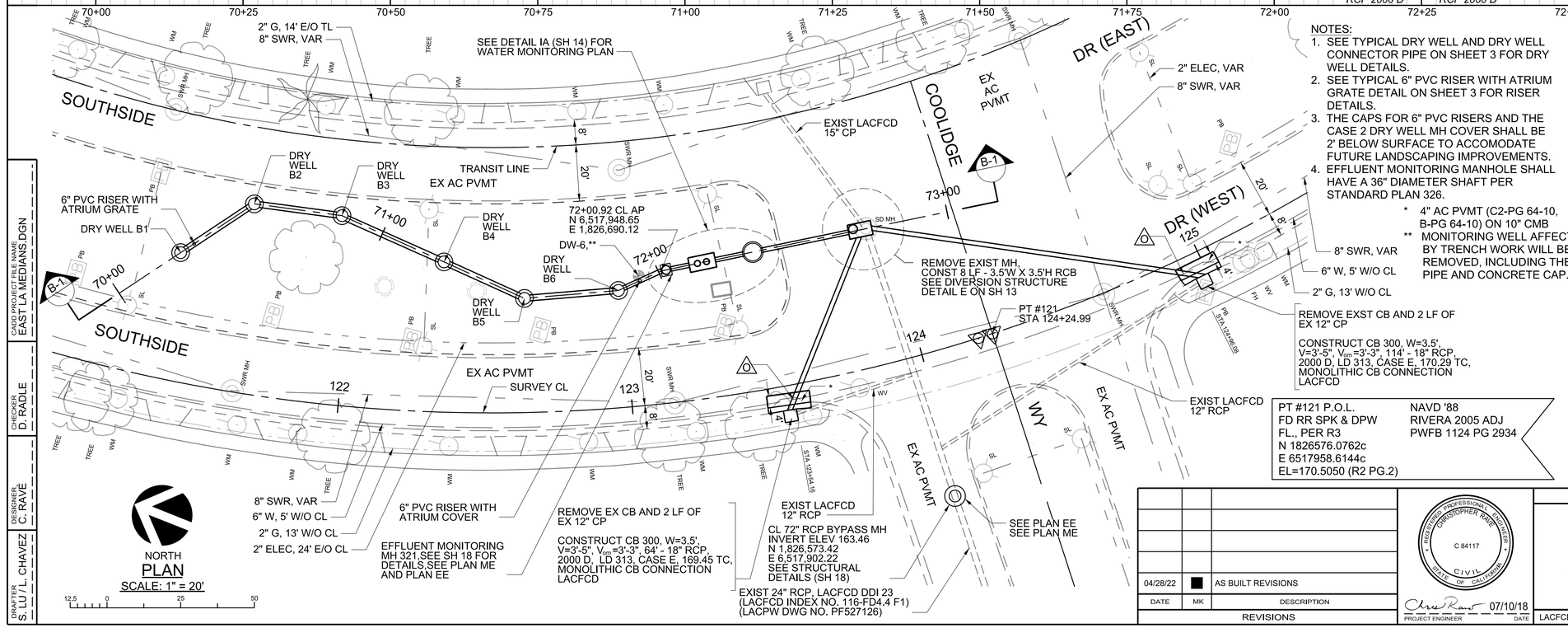
AS BUILT DRAWINGS

PLAN DR

NOT TO BE OWNED BY LACFCD
Q_{85TH} = 2.1 CFS

SCALE: HOR. 1"=10'
VERT. 1"=8'





NOTES:
1. SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
2. SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
3. THE CAPS FOR 6" PVC RISERS AND THE CASE 2 DRY WELL MH COVER SHALL BE 2' BELOW SURFACE TO ACCOMODATE FUTURE LANDSCAPING IMPROVEMENTS.
4. EFFLUENT MONITORING MANHOLE SHALL HAVE A 36" DIAMETER SHAFT PER STANDARD PLAN 326.

* 4" AC PVMT (C2-PG 64-10, B-PG 64-10) ON 10" CMB
** MONITORING WELL AFFECTED BY TRENCH WORK WILL BE REMOVED, INCLUDING THE PVC PIPE AND CONCRETE CAP.

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
STA 72+44 TO STA 72+76	4" AC ON 10" CMB	5" AC ON 10" CMB
NW CB CP AT STA 123+54	4" AC ON 10" CMB	5" AC ON 10" CMB
SW CB CP AT STA 124+96	4" AC ON 10" CMB	5" AC ON 10" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON 3" OF B-PG 64-10.

JS 333				
LOCATION	STATION	A	B	C
18" RCP INLET (WEST)	72+69.43	56° 31' 41"	18"	3'
15" RCP INLET (EAST)	72+71.07	64° 50' 33"	15"	3'
24" RCP OUTLET (WEST)	72+72.10	83° 14' 11"	24"	2'

SEE UPDATED ELEV T VALUES ON TABLE 3.1 (SH 26)

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
B1	1,826,848.79	6,517,910.51	2	40'	20'	~~165.9~~
B2	1,826,829.17	6,517,933.21	3	40'	20'	~~167.8~~
B3	1,826,799.47	6,517,937.42	3	40'	20'	~~167.6~~
B4	1,826,761.90	6,517,931.69	1	40'	20'	~~168.7~~
B5	1,826,732.24	6,517,927.17	3	40'	20'	~~166.9~~
B6	1,826,702.28	6,517,938.40	1	40'	20'	~~168.3~~

TABLE 3
DRY WELLS LINE B-1
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

PT #121 P.O.L.
FD RR SPK & DPW
FL., PER R3
N 1826576.0762c
E 6517958.6144c
EL=170.5050 (R2 PG.2)

NAVD '88
RIVERA 2005 ADJ
PWFB 1124 PG 2934

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER RYE C 84117 CIVIL STATE OF CALIFORNIA

Chris Rye 07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
SOUTHSIDE DR DRY WELLS AND DIVERSION LINE LINE B-1
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 6 OF ~~26~~ 27

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ

AS BUILT DRAWINGS

PLAN DR

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
C2-A	1,827,489.84	6,520,929.98	1	40'	60'	~~191.4~~
C3-A	1,827,482.44	6,520,959.05	3	40'	60'	~~190.0~~
C4-A	1,827,472.57	6,520,997.81	3	40'	60'	~~190.2~~
C5-A	1,827,465.17	6,521,026.88	3	40'	60'	~~190.3~~
C6-A	1,827,450.36	6,521,085.03	3	40'	60'	~~190.6~~
C7-A	1,827,441.73	6,521,118.95	3	40'	60'	~~190.7~~
C8-A	1,827,397.31	6,521,293.38	3	40'	60'	~~191.3~~
C9-A	1,827,420.75	6,521,201.32	3	40'	60'	~~190.7~~
C10-A	1,827,413.35	6,521,230.39	1	40'	60'	~~193.0~~
C11-A	1,827,389.91	6,521,322.45	3	40'	60'	~~191.4~~
C12-A	1,827,355.37	6,521,458.13	3	40'	60'	~~192.3~~
C13-A	1,827,333.16	6,521,545.34	3	40'	60'	~~191.3~~
C14-A	1,827,318.36	6,521,603.49	2	40'	60'	~~192.6~~
C15-A	1,827,296.15	6,521,690.71	3	40'	60'	~~193.3~~
C16-A	1,827,283.82	6,521,739.16	3	40'	60'	~~193.5~~

SEE UPDATED ELEV T VALUES ON TABLE 4.1 (SH 26) ■

TABLE 4
DRY WELLS LINE C-1

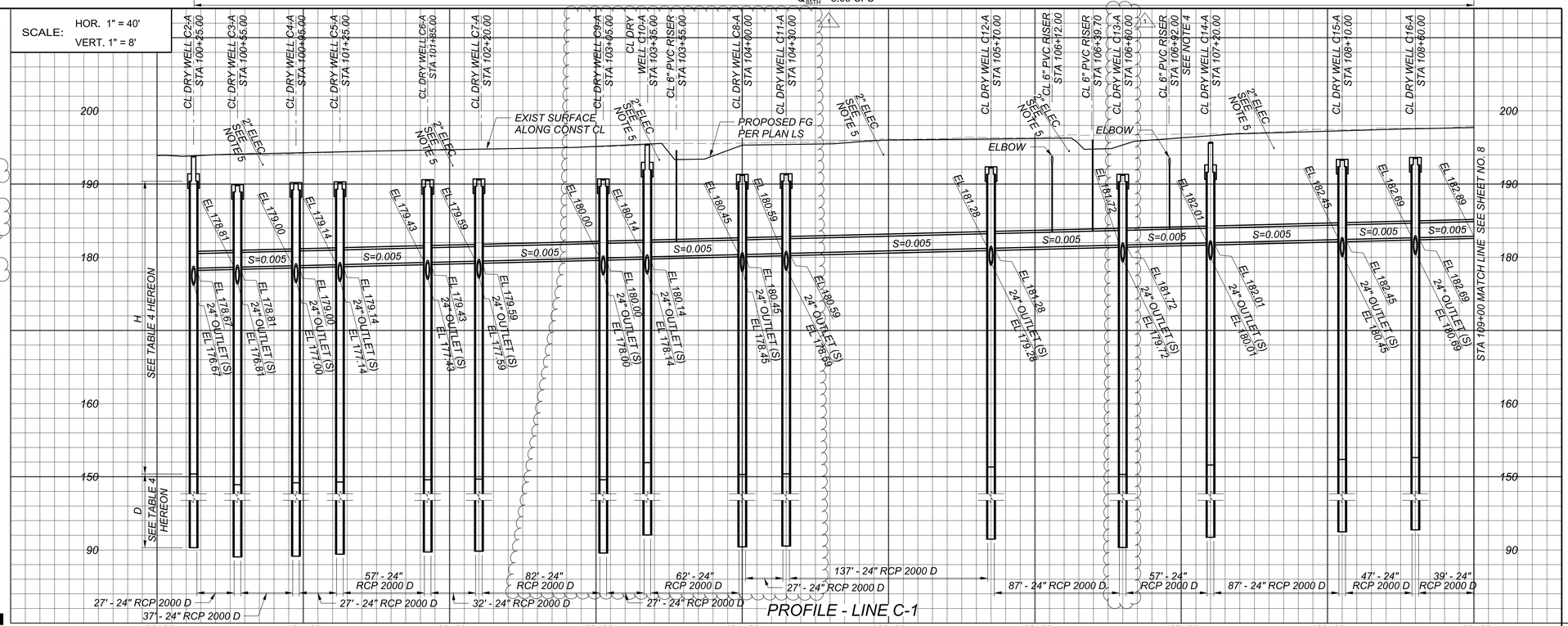
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

NOTES:
* CONTRACTOR SHALL REMOVE INTERFERING WALL FOOTING AND JOIN RAMP TO EXISTING BRICK WALL
** PROPOSED PEDESTRIAN SIGNAL PER PLAN SP
*** FOR SCE ELECTRICAL CONDUIT RELOCATION, THE CONTRACTOR SHALL CONTACT THE SCE PLANNER (NOELLE PETERSON) AT (310) 608-5162 TO COORDINATE THE WORK THAT NEEDS TO BE PERFORMED.

■ DRY WELL C2-A DRILLED TO GROUNDWATER AND BACKFILLED WITH SAND TO EL 103.10. DRY WELL C3-A DRILLED TO GROUNDWATER AND BACKFILLED WITH SAND TO EL 103.60.

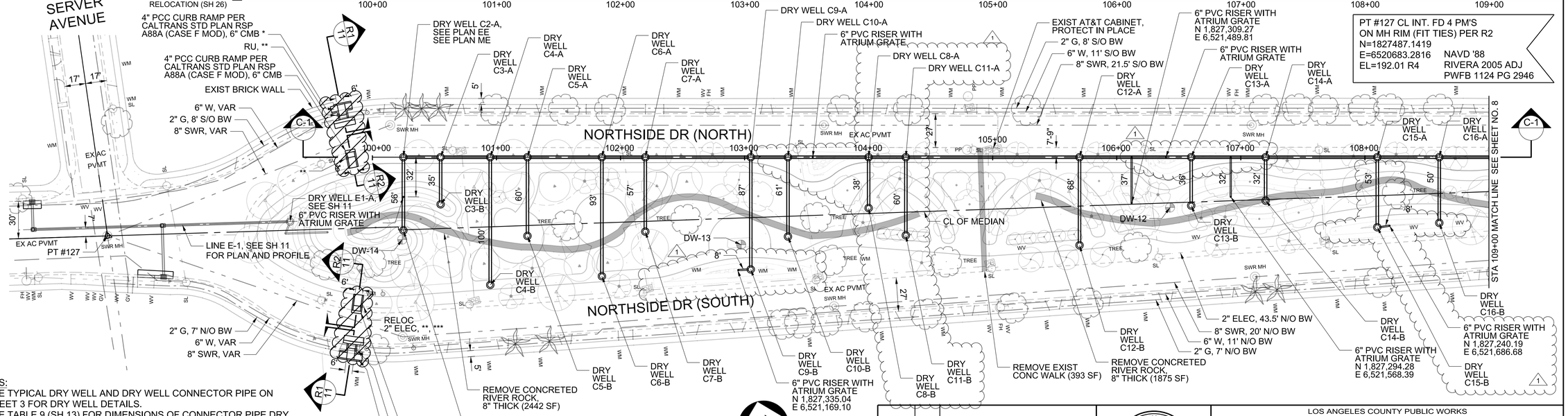
SCALE: HOR. 1" = 40'
VERT. 1" = 8'

NOT TO BE OWNED BY LACFCD
Q_{85TH} = 8.09 CFS



PROFILE - LINE C-1

SEE UPDATED DETAIL FOR PEDESTRIAN RAMPS RELOCATION (SH 26) ■



PT #127 CL INT. FD 4 PM'S ON MH RIM (FIT TIES) PER R2
N=1827487.1419
E=6520683.2816 NAVD '88
EL=192.01 R4 RIVERA 2005 ADJ
PWFB 1124 PG 2946

NOTES:
1. SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
2. SEE TABLE 9 (SH 13) FOR DIMENSIONS OF CONNECTOR PIPE DRY WELLS AND ASSOCIATED CONNECTOR PIPE INFORMATION.
3. SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
4. FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
5. REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
6. REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.

NORTH
PLAN
SCALE: 1" = 40'
25 0 50 100

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS
11/19/20	1	UPDATED PLAN, PROFILE, AND TABLES, RELOCATED C8-A, C8-B, C11-A, AND C11-B.

REVISIONS

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER RAVE C 84117 CIVIL STATE OF CALIFORNIA

07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
NORTHSIDE DR DRY WELLS
LINE C-1
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 7 OF ~~26~~ 27 ■

DRAFTER S. LU / L. CHAVEZ
DESIGNER C. RAVE
CHECKER D. RADLE
CADD PROJECT FILE NAME EAST LA MEDIANS.DGN

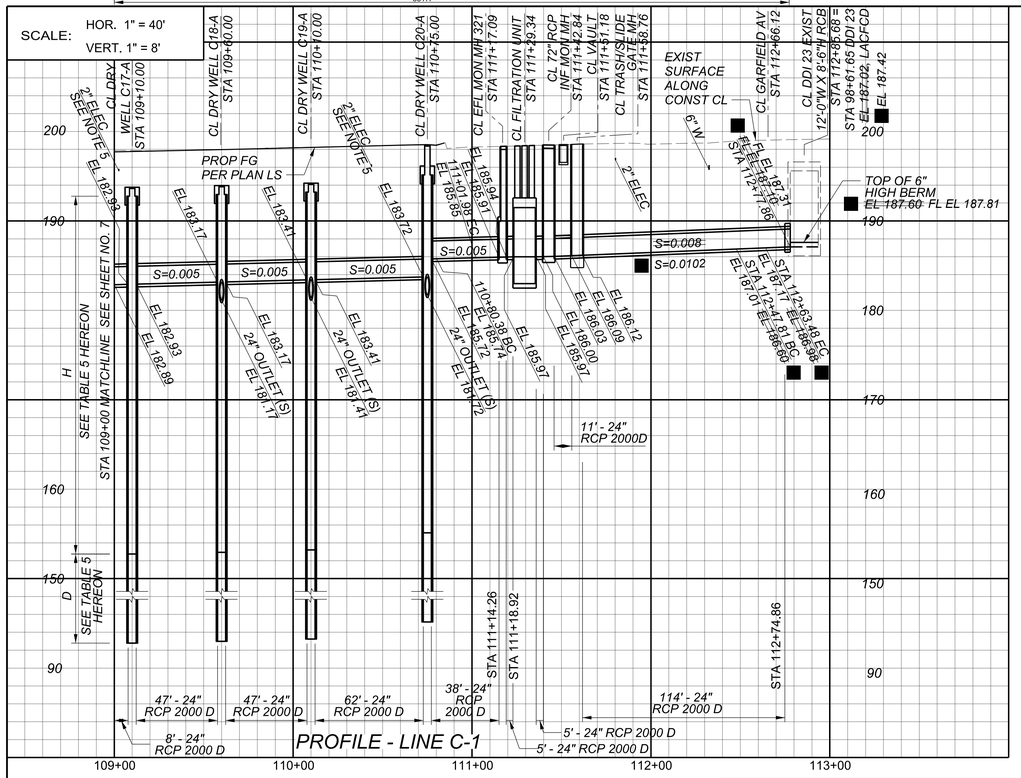
AS BUILT DRAWINGS

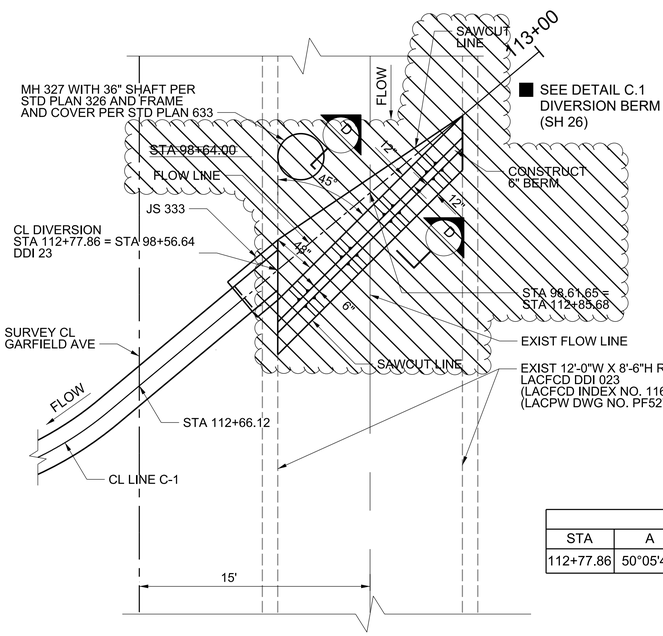
PLAN DR

NOT TO BE OWNED BY LACFCD

Q_{85TH} = 8.09 CFS

SCALE: HOR. 1" = 40'
VERT. 1" = 8'





DETAIL C
DIVERSION BERM
NOT TO SCALE

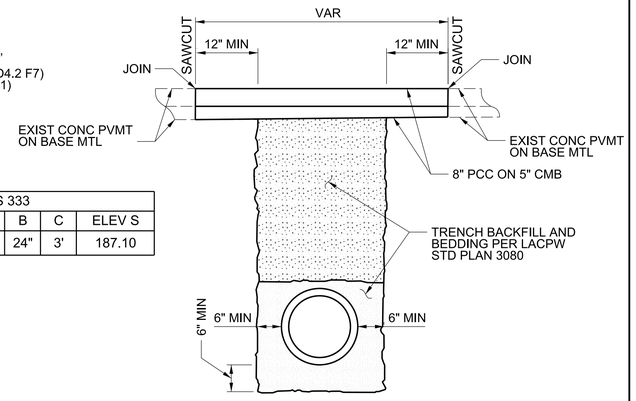
DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T	
C17-A	1,827,271.48	6,521,787.61	3	40'	60'	~~193.7~~	193.39
C18-A	1,827,259.14	6,521,836.07	3	40'	60'	~~193.9~~	193.97
C19-A	1,827,246.81	6,521,884.52	3	40'	60'	~~194.2~~	194.11
C20-A	1,827,230.77	6,521,947.51	1	40'	60'	~~196.1~~	195.78

TABLE 5
DRY WELLS LINE C-1
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

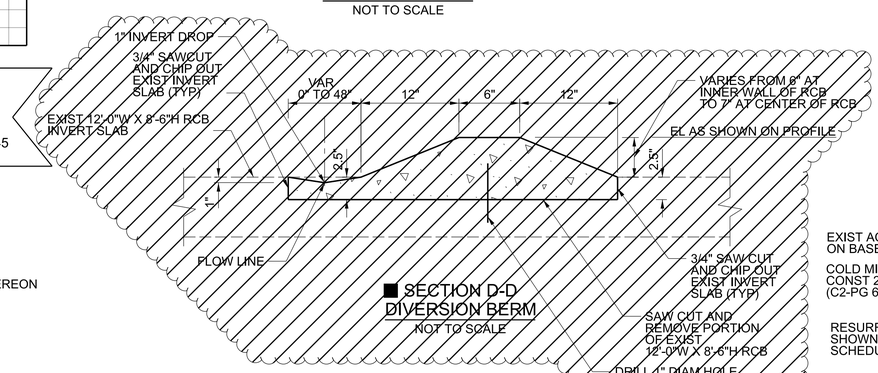
RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
STA 110+86 TO STA 111+98	4" AC ON 4" CMB	5" AC ON 4" CMB
STA 112+30 TO STA 112+78	8" CONC ON 5" CMB	8" PCC ON 5" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON 3" OF B-PG 64-10.

JS 333				
STA	A	B	C	ELEV S
112+77.86	50°05'41"	24"	3'	187.10

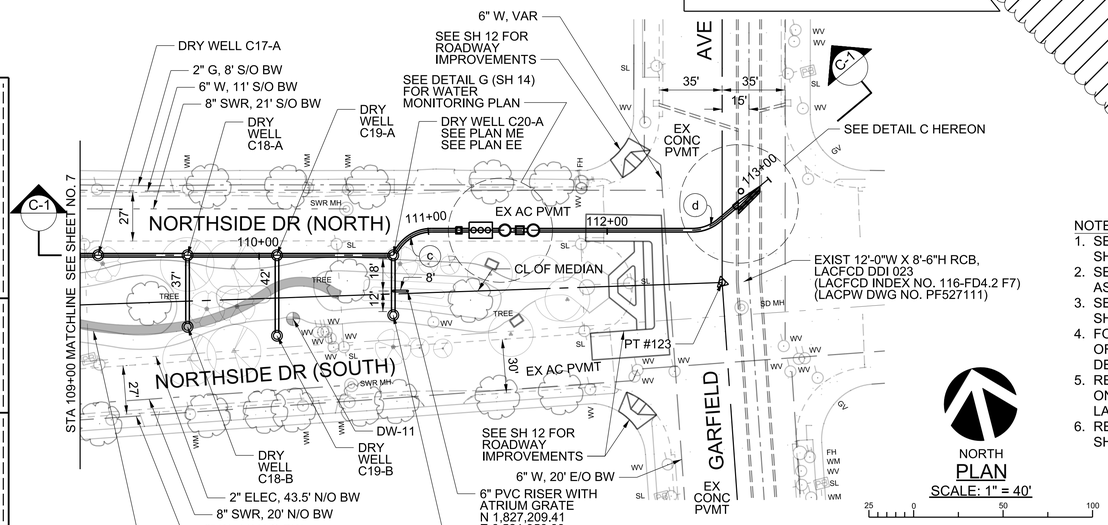


TYPICAL PIPE TRENCH DETAIL
FOR PCC PAVEMENT
NO SCALE



■ SECTION D-D
DIVERSION BERM
NOT TO SCALE

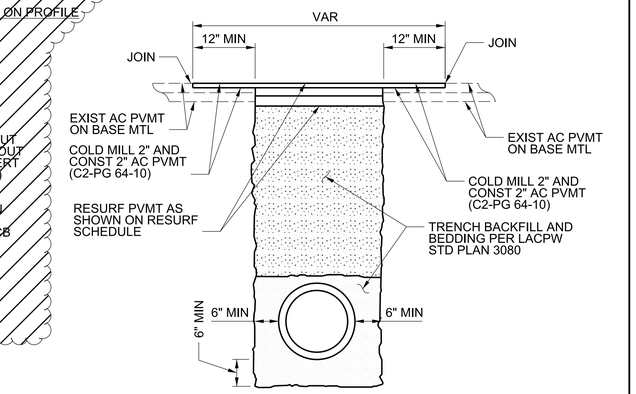
PT #123 CL INT FD. L & LA
CO. ENGR TAG R.
N 1827170.6235 NAVD '88
E 6522121.8726 RIVERA 2005 ADJ
EL=198.82 R4 PWFB 1124 PG 2945



	PI							
CURVE	NORTHING	EASTING	CENTRAL ANGLE	RADIUS	TANGENT	LENGTH	BC	EC
ⓒ	1,827,241.91	6,521,960.46	55° 00' 00"	22.50'	11.71'	21.60'	110+80.38	111+01.98
ⓓ	1,827,201.03	6,522,121.06	39° 54' 04"	22.50'	8.17'	15.67'	112+47.81	112+63.48

NORTH
PLAN
SCALE: 1" = 40'
25 0 50 100

NOTES:
1. SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
2. SEE TABLE 9 (SH 13) FOR DIMENSIONS OF DRY WELLS AND ASSOCIATED CONNECTOR PIPES.
3. SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
4. FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
5. REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
6. REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.



TYPICAL PIPE TRENCH DETAIL
FOR AC PAVEMENT
NO SCALE

DRAFTER	S. LU / L. CHAVEZ	CADD PROJECT FILE NAME	EAST LA MEDIANS.DGN
DESIGNER	C. RAVE	CHECKER	D. RADLE

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER RAVE C 84117 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER 07/10/18 DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
NORTHSIDE DR DRY WELLS, GARFIELD AVE DIVERSION LINE, LINE C-1
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 8 OF ~~26~~ 27

AS BUILT DRAWINGS

PLAN DR

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
D2-A	1,826,204.45	6,520,743.25	2	40'	60'	~~181.2~~
D3-A	1,826,198.57	6,520,775.72	3	40'	60'	~~182.5~~
D4-A	1,826,193.22	6,520,805.24	3	40'	60'	~~182.8~~
D5-A	1,826,186.09	6,520,844.60	3	40'	60'	~~183.0~~
D6-A	1,826,177.18	6,520,893.80	3	40'	60'	~~183.2~~
D7-A	1,826,171.84	6,520,923.32	3	40'	60'	~~183.6~~
D8-A	1,826,166.49	6,520,952.84	3	40'	60'	~~183.9~~
D9-A	1,826,149.91	6,521,044.34	3	40'	60'	~~185.3~~
D10-A	1,826,126.56	6,521,173.25	1	40'	60'	~~187.5~~
D11-A	1,826,141.29	6,521,237.80	3	40'	60'	~~186.4~~
D12-A	1,826,130.60	6,521,296.84	1	40'	60'	~~187.6~~
D13-A	1,826,125.25	6,521,326.36	3	40'	60'	~~186.0~~
D14-A	1,826,117.23	6,521,370.63	3	40'	60'	~~185.1~~
D15-A	1,826,106.54	6,521,429.68	3	40'	60'	~~185.2~~
D16-A	1,826,100.30	6,521,464.12	3	40'	60'	~~185.2~~
D17-A	1,826,087.82	6,521,533.00	1	40'	60'	~~188.8~~

SEE UPDATED ELEV T VALUES ON ■ TABLE 6.1 (SH 26)

TABLE 6
DRY WELLS LINE D-1

ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

NOTES:

1. SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
2. SEE TABLE 9 (SH 13) FOR DIMENSIONS OF CONNECTOR PIPE DRY WELLS AND ASSOCIATED CONNECTOR PIPE INFORMATION.
3. SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
4. FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
5. REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
6. REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.

* CONTRACTOR SHALL REMOVE INTERFERING WALL FOOTING AND JOIN RAMP TO EXISTING BRICK WALL

** PROPOSED PEDESTRIAN SIGNAL PER PLAN SP

*** FOR SCE ELECTRICAL CONDUIT RELOCATION, THE CONTRACTOR SHALL CONTACT THE SCE PLANNER (NOELLE PETERSON) AT (310) 608-5162 TO COORDINATE THE WORK THAT NEEDS TO BE PERFORMED.

SCALE: HOR. 1" = 40'
VERT. 1" = 8'

NOT TO BE OWNED BY LACFCD
Q_{85TH} = 7.73 CFS

PROFILE - LINE D-1

PLAN
SCALE: 1" = 40'

PT #101 INT FD 4 PK
NAILS STRADS R3
DN 3", PER R3 NAVD '88
N=1826191.6711 RIVERA 2005 ADJ
E=6520545.6078 PWFB 1124 PG 2943

04/28/22	■	AS BUILT REVISIONS
1	11/19/20	UPDATED PLAN, PROFILE, AND TABLE.
DATE	MK	DESCRIPTION
REVISIONS		

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER RIVE C 84117 CIVIL STATE OF CALIFORNIA

Chris Rive 07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
SOUTHSIDE DR DRY WELLS
LINE D-1
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 9 OF ~~26~~ 27

DRAFTER S. LU / L. CHAVEZ
DESIGNER C. RAVE
CHECKER D. RADLE
CADD PROJECT FILE NAME EAST LA MEDIANS.DGN

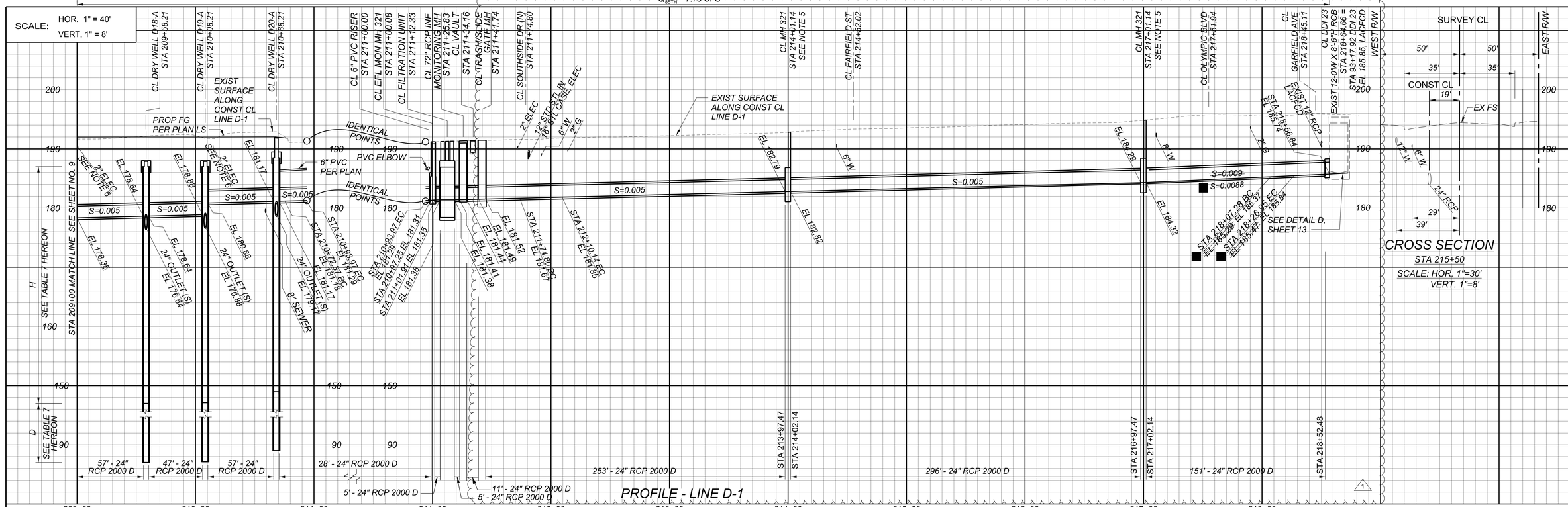
AS BUILT DRAWINGS

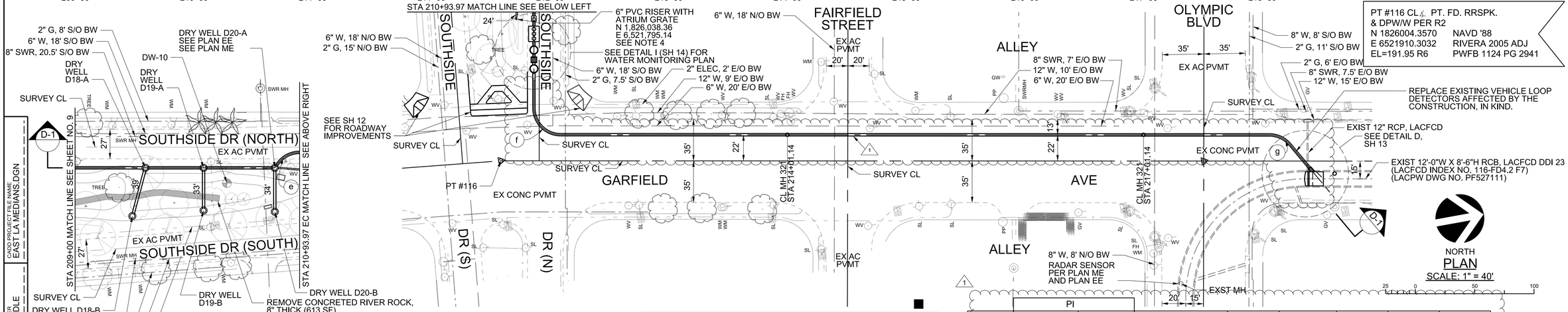
PLAN DR

NOT TO BE OWNED BY LACFCD

Q_{85TH} = 7.73 CFS

SCALE: HOR. 1" = 40'
VERT. 1" = 8'





PT #116 CL & PT. FD. RRSPK.
& DPW/W PER R2
N 1826004.3570 NAVD '88
E 6521910.3032 RIVERA 2005 ADJ
EL=191.95 R6 PWFB 1124 PG 2941

NOTES:
1. SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
2. SEE TABLE 9 (SH 13) FOR DIMENSIONS OF CONNECTOR PIPE DRY WELLS AND ASSOCIATED CONNECTOR PIPE INFORMATION.
3. SEE TYPICAL 6" PVC RISERS WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
4. FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
5. MANHOLES ALONG GARFIELD AVENUE SHALL HAVE A SHAFT PER STD PLAN 326.
6. REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
7. REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T	
D18-A	1,826,064.48	6,521,661.90	3	40'	60'	~~188.0~~	187.96
D19-A	1,826,055.74	6,521,710.12	3	40'	60'	~~188.0~~	187.43
D20-A	1,826,045.05	6,521,769.16	1	40'	60'	~~189.5~~	189.32

TABLE 7
DRY WELLS LINE D-1
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
STA 210+78 TO STA 211+44	4" AC ON 4" CMB	5" AC ON 4" CMB
STA 211+93 TO STA 218+55	8" CONC ON 5" CMB	8" PCC ON 5" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON 3" OF B-PG 64-10.

CURVE	PI NORTHING	PI EASTING	CENTRAL ANGLE	RADIUS	TANGENT	LENGTH	BC	EC
(e)	1,826,056.21	6,521,780.43	55° 00' 00"	22.50'	11.71'	21.60'	210+72.37	210+93.97
(f)	1,826,035.71	6,521,893.63	89° 59' 06"	22.50'	22.49'	35.34'	211+74.80	212+10.14
(g)	1,826,655.74	6,522,006.11	50° 05' 41"	22.50'	10.51'	19.67'	218+07.28	218+26.95

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS
08/24/20	1	LINE D-1 ALIGNMENT SHIFTED 3' WEST, ELEVS, STATIONS, AND CURVE DATA UPDATED.

REVISIONS

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER RIVERA C 84117 CIVIL STATE OF CALIFORNIA

Chris Rivera 07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
SOUTHSIDE DR DRY WELLS
GARFIELD AVE DIVERSION LINE, LINE D-1
PROJECT ID NO. WMU0000010

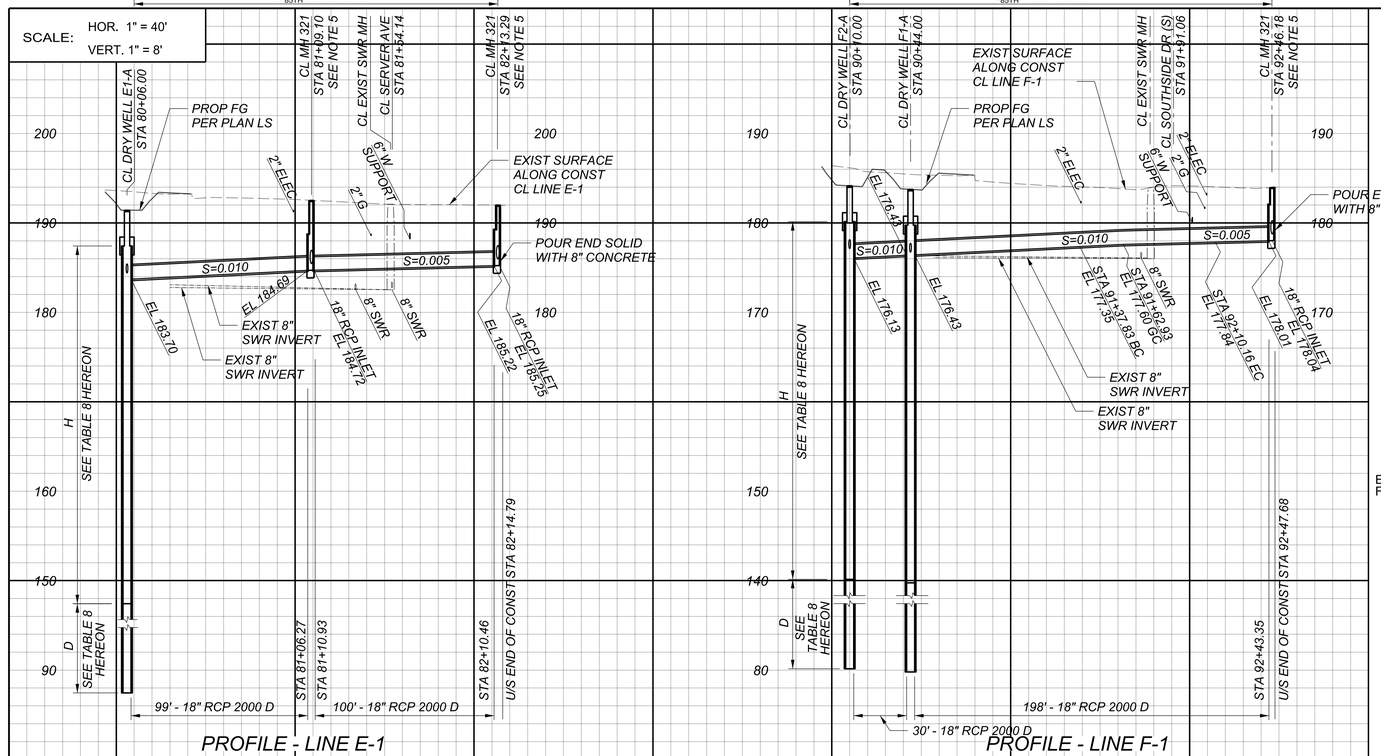
LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 10 OF ~~26~~ 27

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ

AS BUILT DRAWINGS

PLAN DR

SCALE: HOR. 1" = 40'
VERT. 1" = 8'



DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
E1-A	1,827,462.05	6,520,828.65	2	40'	60'	~~188.4~~
F1-A	1,826,179.65	6,520,685.53	2	40'	60'	~~180.7~~
F2-A	1,826,174.83	6,520,719.18	2	40'	60'	~~181.1~~

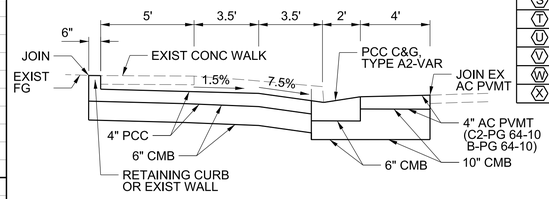
TABLE 8
DRY WELLS LINES E-1 AND F-1
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER (SH 26)

SEE UPDATED ELEV T VALUES ON TABLE 8.1

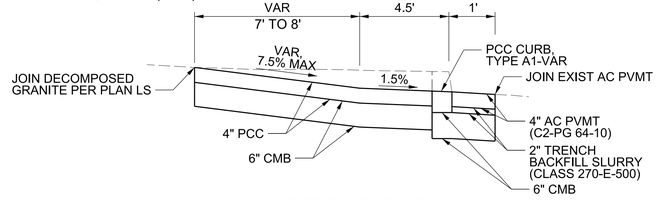
■ DRY WELL E1-A DRILLED TO GROUNDWATER AND BACKFILLED WITH SAND TO EL 102.03.

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
STA 80+43 TO STA 82+16	4" AC ON 4" CMB	5" AC ON 4" CMB
STA 90+80 TO STA 91+66	4" AC ON 4" CMB	5" AC ON 4" CMB
STA 91+66 TO STA 92+49	6" AC ON 5" CMB	6" AC ON 5" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON VAR B-PG 64-10.



SECTION R1-R1 (SH 7, 9)
NOT TO SCALE
MEDIAN CURB RAMP PER CALTRANS STD PLAN RSP A88A, CASE F (MOD)



SECTION R2-R2 (SH 7, 9)
NOT TO SCALE
MEDIAN CURB RAMP PER CALTRANS STD PLAN RSP A88A, CASE F (MOD)

POINT	STATION	OFFSET FT	COORDINATES N	COORDINATES E	FS ELEV	TC ELEV
Ⓐ	69+51.59	18.75 LT	1,827,199.25	6,522,078.57	198.57	199.15
Ⓑ	69+46.67	14.55 LT	1,827,196.20	6,522,072.86	198.65	199.23
Ⓒ	69+49.91	10.75 LT	1,827,191.79	6,522,075.22	198.58	199.16
Ⓓ	69+51.56	9.98 LT	1,827,190.69	6,522,076.67	198.54	199.12
Ⓔ	69+36.68	6.03 LT	1,827,190.00	6,522,061.29	199.10	199.10
Ⓕ	69+41.67	3.72 LT	1,827,186.68	6,522,065.67	199.01	199.01
Ⓖ	69+41.65	3.78 RT	1,827,179.36	6,522,064.05	198.95	198.95
Ⓗ	69+36.64	6.10 RT	1,827,178.16	6,522,058.67	199.00	199.00
Ⓘ	69+51.49	10.12 RT	1,827,171.07	6,522,072.32	198.46	199.04
Ⓙ	69+49.83	10.87 RT	1,827,170.68	6,522,070.54	198.50	199.08
Ⓚ	69+46.57	14.66 RT	1,827,167.68	6,522,066.55	198.49	199.07
Ⓛ	69+51.46	18.88 RT	1,827,162.52	6,522,070.43	198.42	199.00
Ⓜ	89+50.73	15.86 RT	1,826,029.30	6,521,864.75	191.51	192.18
Ⓝ	89+46.06	19.99 RT	1,826,026.08	6,521,859.43	191.57	192.24
Ⓞ	89+49.38	23.72 RT	1,826,021.80	6,521,862.03	191.50	192.17
Ⓟ	89+51.06	24.41 RT	1,826,020.82	6,521,863.56	191.46	192.13
Ⓠ	89+36.31	28.61 RT	1,826,019.32	6,521,848.29	191.97	191.97
Ⓡ	89+41.41	31.15 RT	1,826,015.92	6,521,852.86	191.89	191.89
Ⓢ	79+36.36	29.31 LT	1,826,008.04	6,521,846.70	191.87	191.87
Ⓣ	79+41.44	31.43 LT	1,826,009.61	6,521,851.97	191.93	191.93
Ⓤ	79+50.82	24.73 LT	1,826,001.94	6,521,860.90	191.35	192.02
Ⓥ	79+49.44	24.04 LT	1,826,001.43	6,521,859.15	191.39	192.06
Ⓦ	79+46.04	20.37 LT	1,825,998.13	6,521,855.39	191.37	192.02
Ⓧ	79+51.13	15.96 LT	1,825,993.25	6,521,859.68	191.30	191.97

TABLE 8.1 (SH 12)
NORTHSIDE DR AND SOUTHSIDE DR
ISLAND PASSAGEWAYS

PI								
CURVE	NORTHING	EASTING	CENTRAL ANGLE	RADIUS	TANGENT	LENGTH	BC	EC
ⓗ	1,826,199.61	6,520,546.45	92° 05' 38"	45.00'	46.68'	72.33'	91+37.83	92+10.16

NOTES:
1. SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
2. SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
3. FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
4. REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
5. MANHOLE 321 SHALL HAVE A SHAFT PER STD PLAN 326.
6. REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.
7. EACH GRATING CATCH BASIN SHALL INCLUDE GRATE(S) PER CITY OF LOS ANGELES BUREAU OF ENGINEERING STD PLAN S-342-4.
8. THE CATCH BASIN CONNECTOR PIPE SCREEN SHALL BE MODIFIED TO EXCLUDE THE OVERFLOW OPENING.

* 4" AC PVMT (C2-PG 64-10, B-PG 64-10) ON 10" CMB

04/28/22	■	AS BUILT REVISIONS
DATE	MK	DESCRIPTION
REVISIONS		

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER RAVE C 84117 CIVIL STATE OF CALIFORNIA

07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

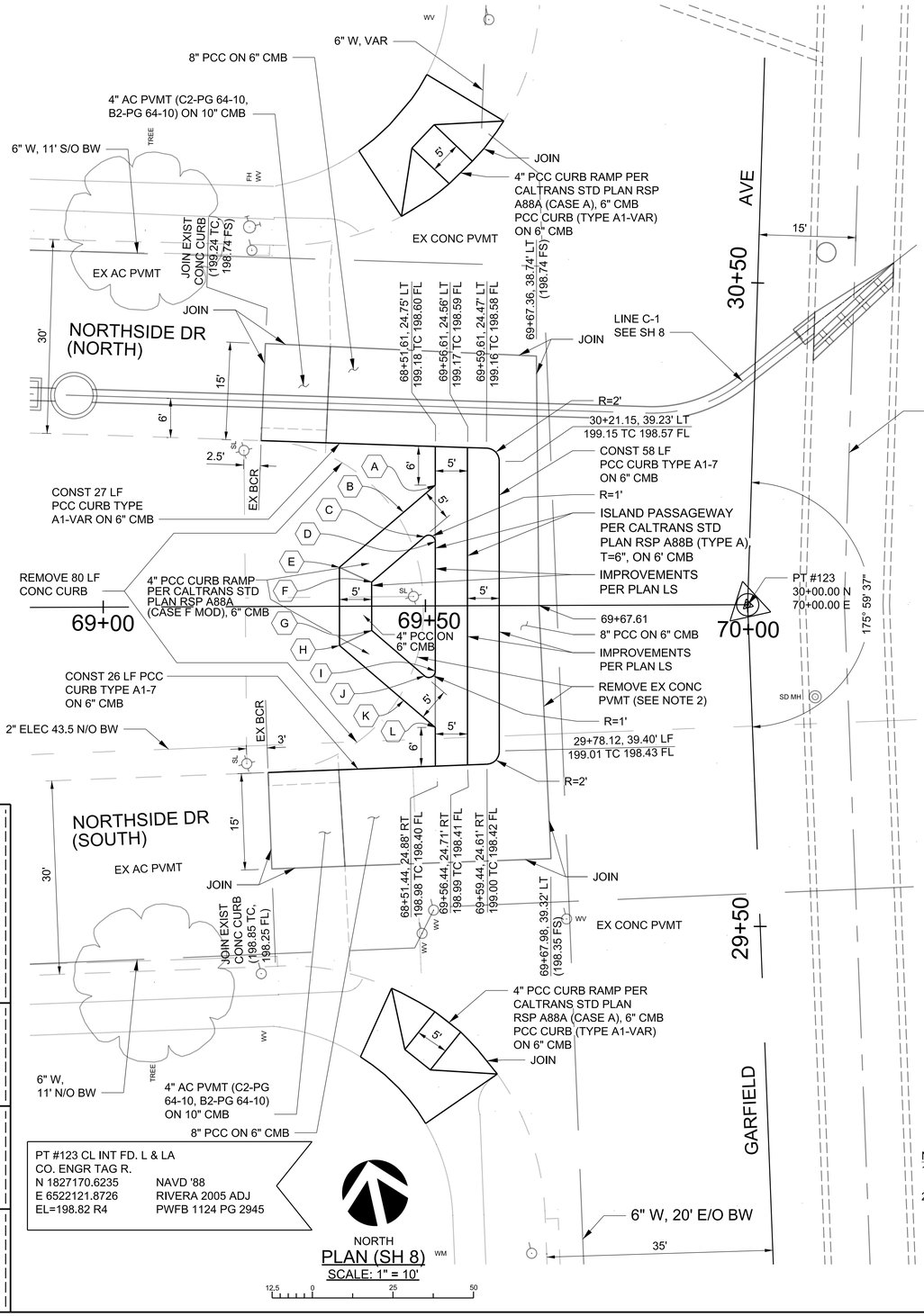
EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PLAN AND PROFILE LINES E-1 AND F-1
PROJECT ID NO. WMU0000010

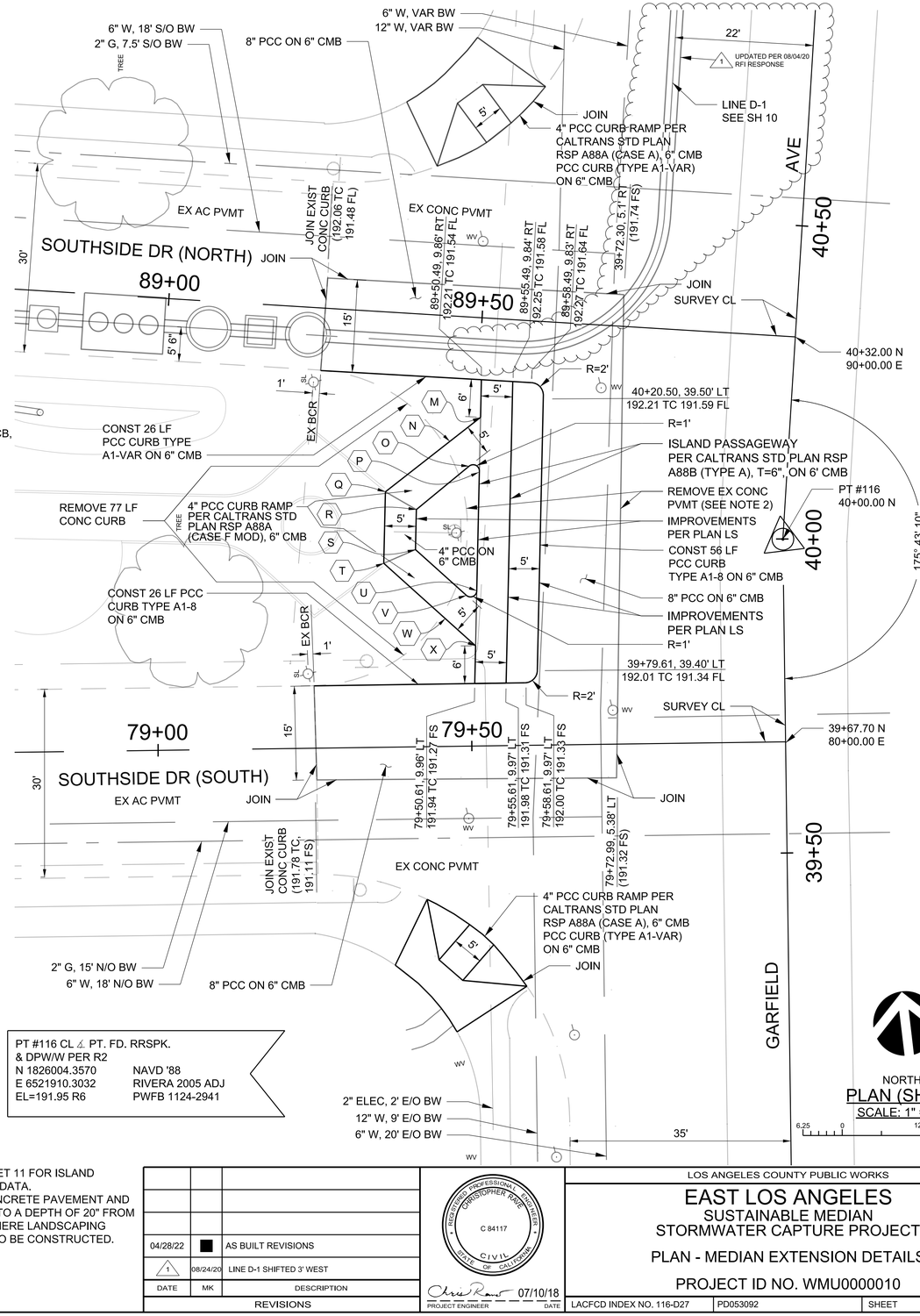
LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 11 OF ~~26~~ 27

AS BUILT DRAWINGS

PLAN DR

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ





NOTES:
1. SEE TABLE 8.1 ON SHEET 11 FOR ISLAND PASSAGEWAY DESIGN DATA.
2. REMOVE EXISTING CONCRETE PAVEMENT AND SUBGRADE MATERIAL TO A DEPTH OF 20" FROM FINISHED SURFACE WHERE LANDSCAPING IMPROVEMENTS ARE TO BE CONSTRUCTED.

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS
1 08/24/20		LINE D-1 SHIFTED 3' WEST

REVISIONS

CHRISTOPHER TOVE — REGISTERED PROFESSIONAL ENGINEER — C 84117 — CIVIL — STATE OF CALIFORNIA

07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

PLAN - MEDIAN EXTENSION DETAILS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27	PD053092	SHEET 12 OF 26 27

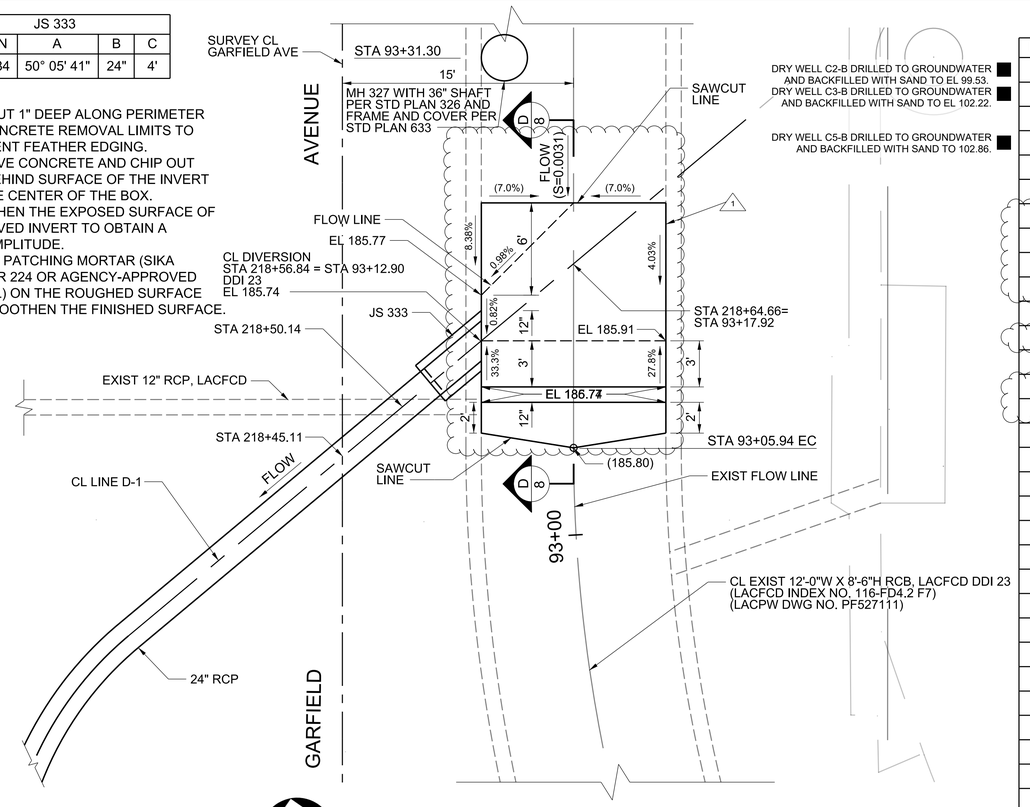
DRAFTER S. LU / L. CHAVEZ
DESIGNER C. RAVE
CHECKER D. RADLE
CADD PROJECT FILE NAME EAST LA MEDIANS.DGN

AS BUILT DRAWINGS

PLAN DR

JS 333			
STATION	A	B	C
218+56.84	50° 05' 41"	24"	4'

NOTES:
1. SAWCUT 1" DEEP ALONG PERIMETER OF CONCRETE REMOVAL LIMITS TO PREVENT FEATHER EDGING.
2. REMOVE CONCRETE AND CHIP OUT 1/2" BEHIND SURFACE OF THE INVERT AT THE CENTER OF THE BOX.
3. ROUGHEN THE EXPOSED SURFACE OF REMOVED INVERT TO OBTAIN A 1/4" AMPLITUDE.
4. APPLY PATCHING MORTAR (SIKA REPAIR 224 OR AGENCY-APPROVED EQUAL) ON THE ROUGHED SURFACE TO SMOOTHEN THE FINISHED SURFACE.

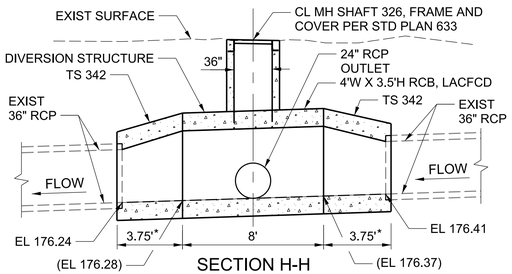


DRY WELL C2-B DRILLED TO GROUNDWATER AND BACKFILLED WITH SAND TO EL 99.53. ■
DRY WELL C3-B DRILLED TO GROUNDWATER AND BACKFILLED WITH SAND TO EL 102.22. ■
DRY WELL C5-B DRILLED TO GROUNDWATER AND BACKFILLED WITH SAND TO 102.86. ■

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T	CONNECTOR PIPE EL A	CONNECTOR PIPE S	CONNECTOR PIPE L	
C2-B	1,827,432.66	6,520,915.42	3	40'	60'	~~188.7~~	176.11	0.01	56'	
C3-B	1,827,445.61	6,520,949.67	2	40'	60'	~~188.8~~	176.46	0.01	35'	
C4-B	1,827,372.75	6,520,972.40	2	40'	60'	~~190.2~~	176.00	0.01	100'	
C5-B	1,827,403.62	6,521,011.21	2	40'	60'	~~190.5~~	176.54	0.01	60'	
C6-B	1,827,357.33	6,521,061.34	2	40'	60'	~~190.7~~	176.50	0.01	93'	
C7-B	1,827,383.58	6,521,104.14	3	40'	60'	~~190.7~~	177.02	0.01	57'	
C8-B	1,827,357.58	6,521,283.27	3	40'	60'	~~190.7~~	178.07	0.01	38'	
C9-B	1,827,333.05	6,521,178.99	2	40'	60'	~~190.0~~	177.13	0.01	87'	
C10-B	1,827,351.33	6,521,214.60	1	40'	60'	~~192.5~~	177.53	0.01	61'	3
C11-B	1,827,328.86	6,521,306.91	2	40'	60'	~~192.2~~	177.99	0.01	60'	
C12-B	1,827,286.57	6,521,440.61	2	40'	60'	~~192.4~~	178.60	0.01	68'	
C13-B	1,827,295.37	6,521,535.72	3	40'	60'	~~192.9~~	179.36	0.01	36'	3
C14-B	1,827,284.44	6,521,594.85	2	40'	60'	~~191.8~~	179.69	0.01	32'	
C15-B	1,827,241.40	6,521,676.77	2	40'	60'	~~191.8~~	179.92	0.01	53'	
C16-B	1,827,232.46	6,521,726.08	2	40'	60'	~~192.4~~	180.19	0.01	50'	3
C18-B	1,827,220.38	6,521,826.20	2	40'	60'	~~194.4~~	180.80	0.01	37'	
C19-B	1,827,203.20	6,521,873.41	3	40'	60'	~~194.0~~	180.99	0.01	42'	
C20-B	1,827,198.31	6,521,939.25	2	40'	60'	~~194.7~~	181.42	0.01	30'	
D2-B	1,826,138.53	6,520,731.31	1	40'	60'	~~181.8~~	171.52	0.01	64'	
D3-B	1,826,152.32	6,520,767.34	2	40'	60'	~~181.3~~	171.87	0.01	44'	
D4-B	1,826,163.70	6,520,799.89	3	40'	60'	~~182.7~~	172.18	0.01	27'	
D5-B	1,826,111.31	6,520,831.05	2	40'	60'	~~182.2~~	171.91	0.01	73'	
D6-B	1,826,118.14	6,520,883.11	3	40'	60'	~~183.1~~	172.31	0.01	57'	
D7-B	1,826,122.64	6,520,914.41	1	40'	60'	~~185.2~~	172.55	0.01	47'	
D8-B	1,826,138.93	6,520,947.85	3	40'	60'	~~184.0~~	172.91	0.01	25'	
D9-B	1,826,089.22	6,521,033.35	2	40'	60'	~~183.4~~	173.03	0.01	58'	
D10-B	1,826,092.12	6,521,167.01	3	40'	60'	~~185.5~~	173.93	0.01	32'	
D11-B	1,826,070.45	6,521,224.97	2	40'	60'	~~186.0~~	173.88	0.01	69'	
D12-B	1,826,101.08	6,521,291.50	3	40'	60'	~~186.4~~	174.59	0.01	27'	
D13-B	1,826,060.33	6,521,314.60	2	40'	60'	~~186.4~~	174.37	0.01	63'	
D14-B	1,826,075.89	6,521,363.20	2	40'	60'	~~185.7~~	174.82	0.01	39'	
D15-B	1,826,074.07	6,521,423.80	2	40'	60'	~~186.1~~	175.20	0.01	30'	
D16-B	1,826,065.86	6,521,457.88	2	40'	60'	~~186.2~~	175.34	0.01	32'	
D17-B	1,826,034.69	6,521,523.38	2	40'	60'	~~186.2~~	175.48	0.01	52'	3
D18-B	1,826,026.47	6,521,643.84	2	40'	60'	~~188.4~~	176.25	0.01	39'	
D19-B	1,826,020.32	6,521,703.70	2	40'	60'	~~188.7~~	176.55	0.01	33'	
D20-B	1,826,008.64	6,521,762.56	3	40'	60'	~~188.5~~	178.83	0.01	34'	

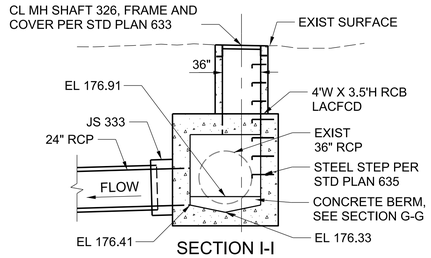
TABLE 9 (SH 7 - 10)
DRY WELLS AND LATERAL CONNECTOR PIPES, LINES C-1 AND D-1
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

■ SEE UPDATED ELEV T VALUES ON TABLE 9.1 (SH 26)



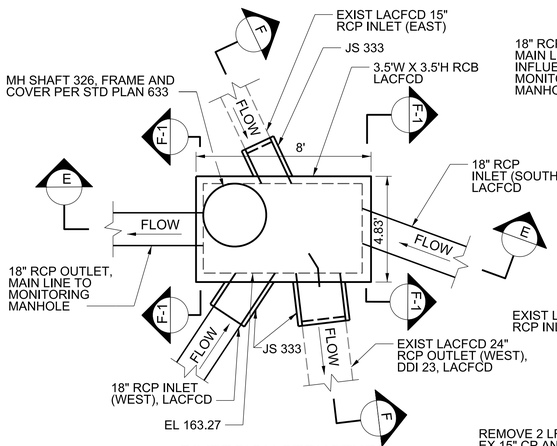
SECTION H-H
DIVERSION STRUCTURE
NOT TO SCALE

* DIMENSION TO BE VERIFIED AND/OR ADJUSTED BASED UPON PROXIMITY OF EXISTING PIPE JOINTS.

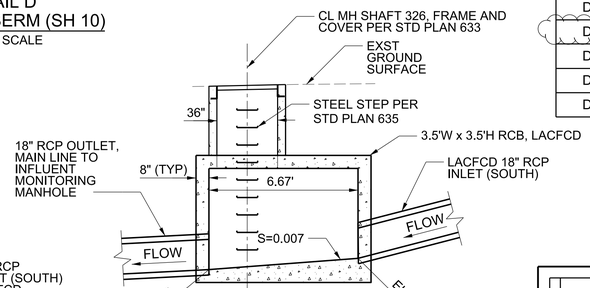


SECTION I-I
DIVERSION STRUCTURE
NOT TO SCALE
REFER TO TABLE ON SH 4 FOR JS 333 DATA

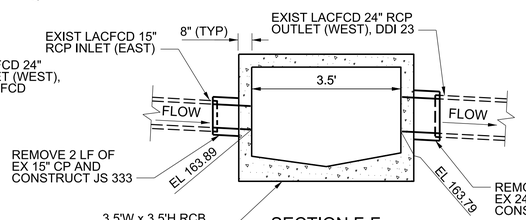
DETAIL D
DIVERSION BERM (SH 10)
NOT TO SCALE



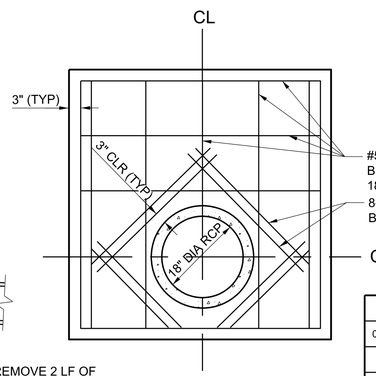
DIVERSION STRUCTURE
DETAIL E (SH 6)
NOT TO SCALE
NOTE: SEE SH 17 FOR STRUCTURAL DETAILS
REFER TO TABLE ON SH 6 FOR JS 333 DATA



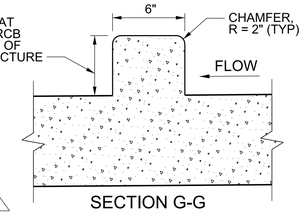
SECTION E-E
NOT TO SCALE
REFER TO TABLE ON SH 6 FOR JS 333 DATA



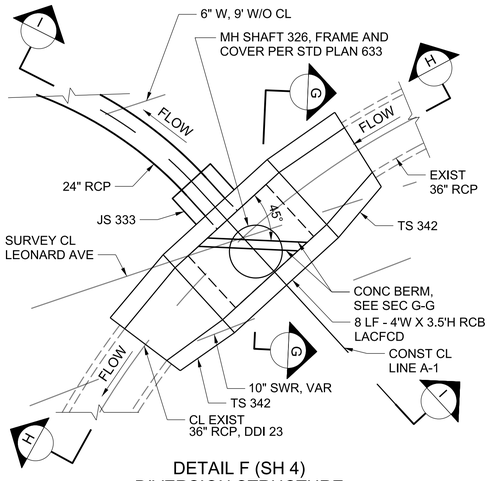
SECTION F-F
NOT TO SCALE
REFER TO TABLE ON SH 6 FOR JS 333 DATA



SECTION F1-F1
NOT TO SCALE



SECTION G-G
CONCRETE BERM
NOT TO SCALE



DETAIL F (SH 4)
DIVERSION STRUCTURE
NOT TO SCALE
NOTE: SEE SH 17 FOR STRUCTURAL DETAILS
REFER TO TABLE ON SH 4 FOR JS 333 DATA

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS
11/19/20	3	TABLE UPDATED.
10/27/20	2	UPDATED STRUCTURAL DETAILS.
08/24/20	1	DIVERSION BERM DETAILS REVISED.

REVISIONS

CHRISTOPHER ROVE C 84117 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

07/10/18
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
CONSTRUCTION DETAILS AND DRY WELL TABLE

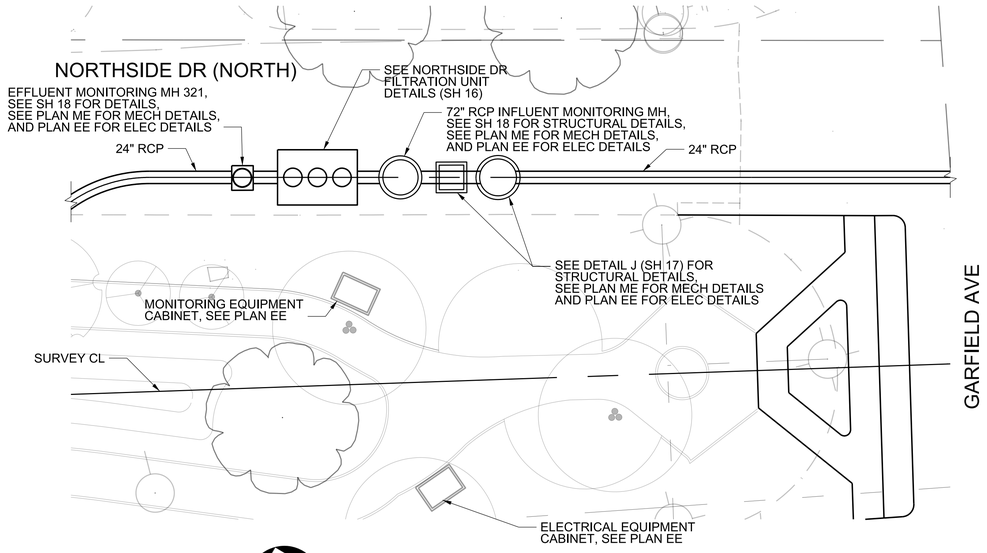
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27	PD053092	SHEET 13 OF ~~26~~ 27

DRAFTER S. LU / L. CHAVEZ
DESIGNER C. RAVE
CHECKER D. RADLE
CADD PROJECT FILE NAME EAST LA MEDIANS.DGN

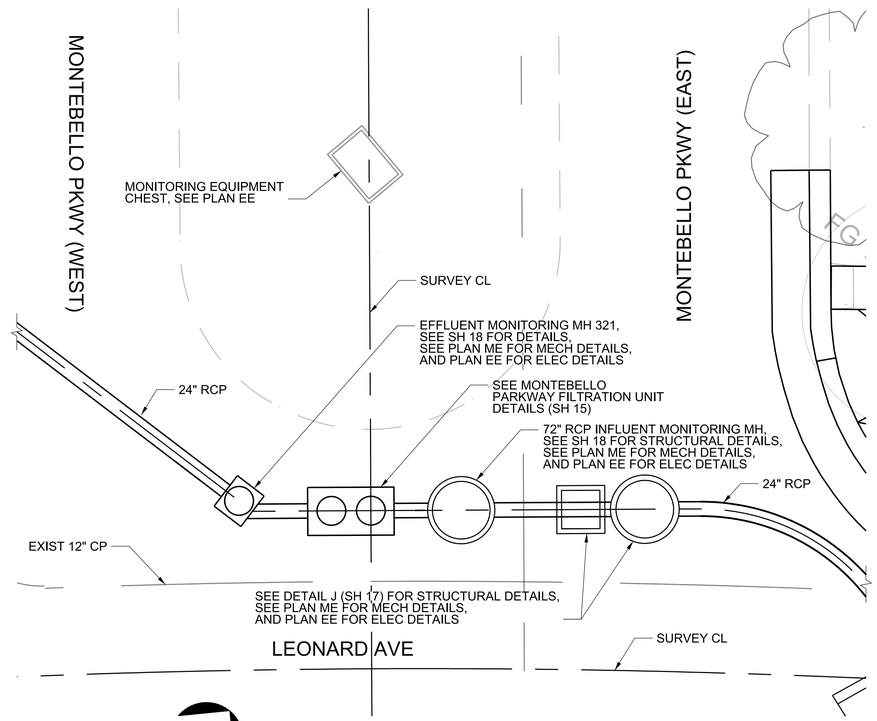
AS BUILT DRAWINGS

PLAN DR



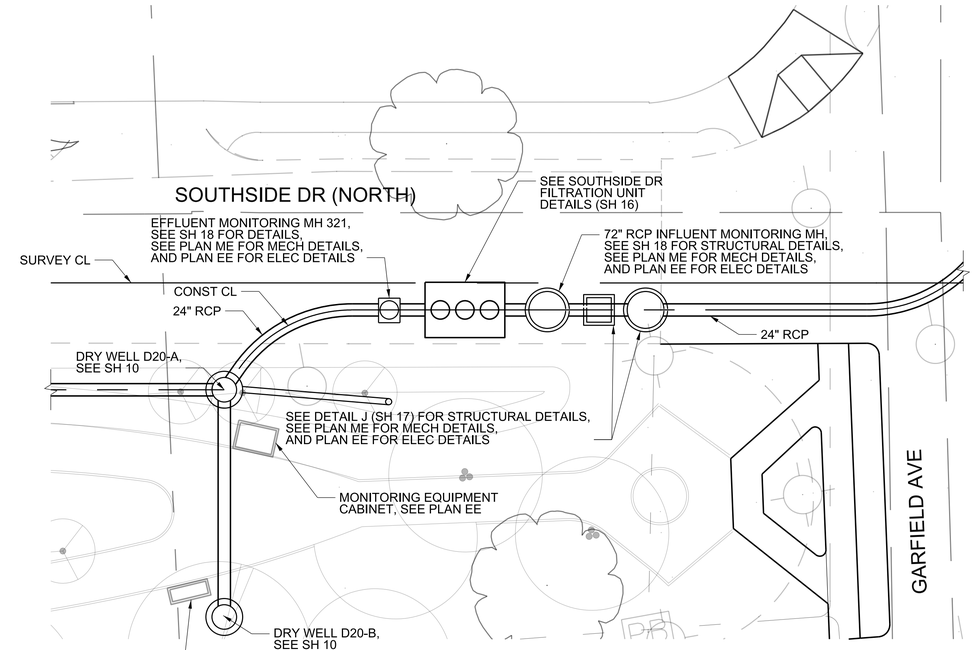
NORTH

DETAIL G
WATER MONITORING PLAN (SH 8)
NO SCALE



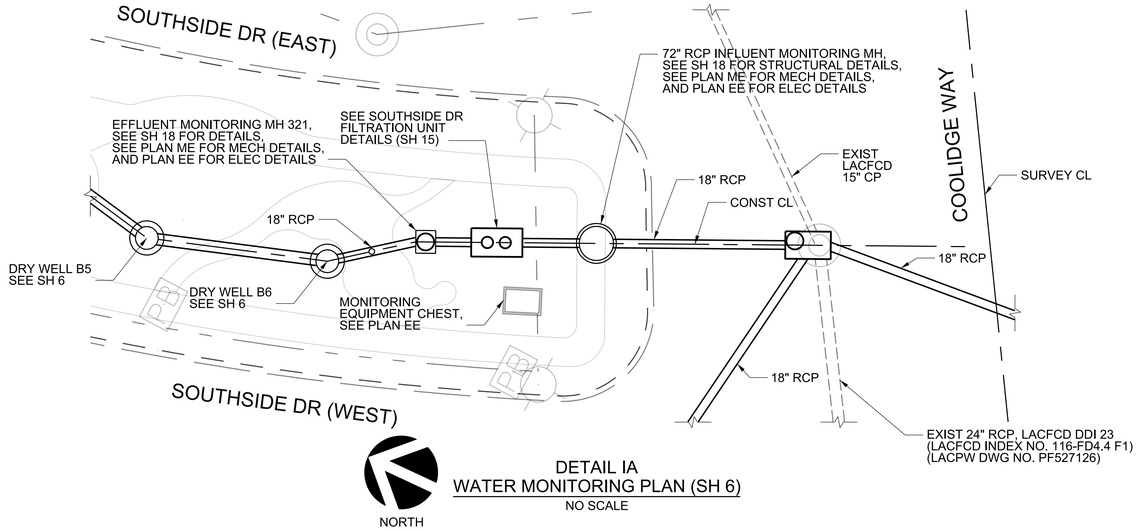
NORTH

DETAIL H
WATER MONITORING PLAN (SH 4)
NO SCALE



NORTH

DETAIL I
WATER MONITORING PLAN (SH 10)
NO SCALE



NORTH

DETAIL IA
WATER MONITORING PLAN (SH 6)
NO SCALE

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ

DATE	BY	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER TOVE — C 84117 — CIVIL — STATE OF CALIFORNIA

07/10/18
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

WATER MONITORING PLAN

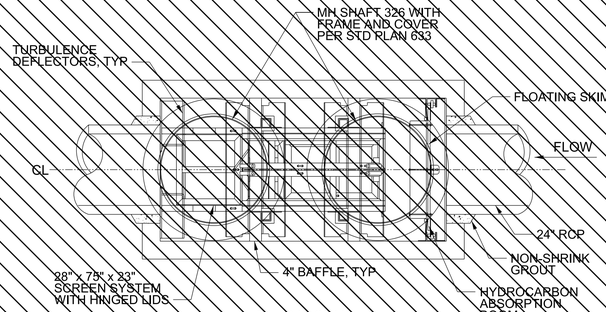
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 14 OF ~~26~~ 27

AS BUILT DRAWINGS

PLAN DR

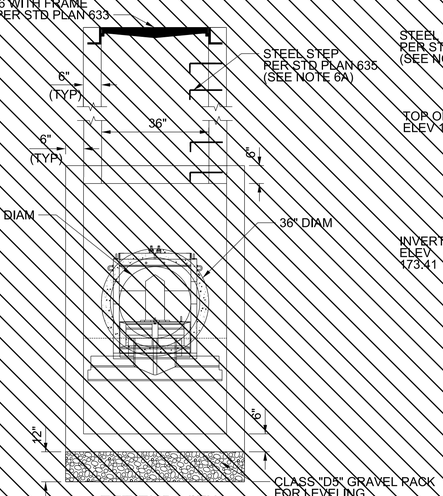
■ SEE SHEET 27 FOR UPDATED FILTRATION UNIT DETAILS



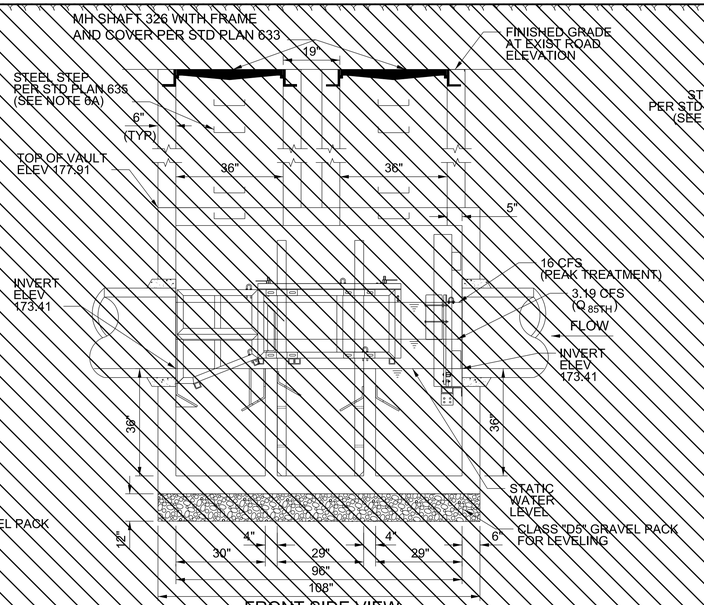
PLAN VIEW
MONTEBELLO PARKWAY FILTRATION UNIT (DETAIL H, SH 14)
NOT TO SCALE

TREATMENT SPECIFICATIONS

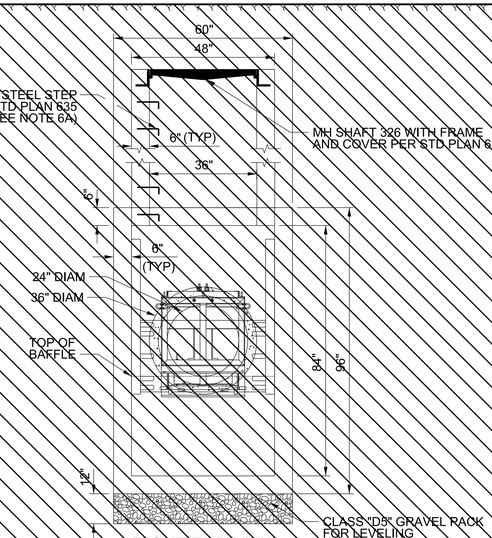
1.	INFLOW RIPE AREA (DRAWN AS 24" RCP)	3.14 SF
2.	PEAK TREATMENT FLOW	16.0 CFS
3.	SCREEN SYSTEM STORAGE VOLUME (MIN)	28.0 CF
4.	TOTAL SEDIMENT VOLUME (MIN)	88.0 CF



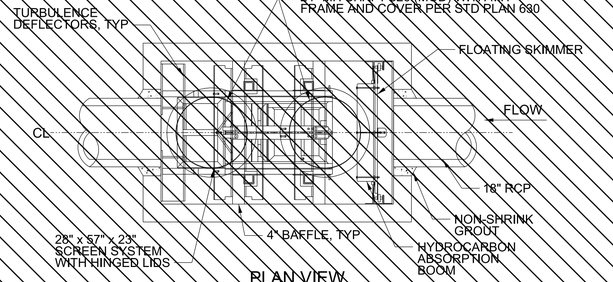
LEFT END VIEW
MONTEBELLO PARKWAY (SH 4)
NOT TO SCALE



FRONT SIDE VIEW
MONTEBELLO PARKWAY (SH 4)
NOT TO SCALE



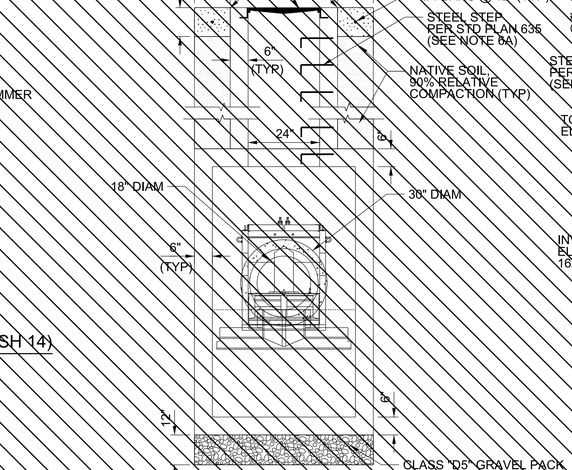
RIGHT END VIEW
MONTEBELLO PARKWAY (SH 4)
NOT TO SCALE



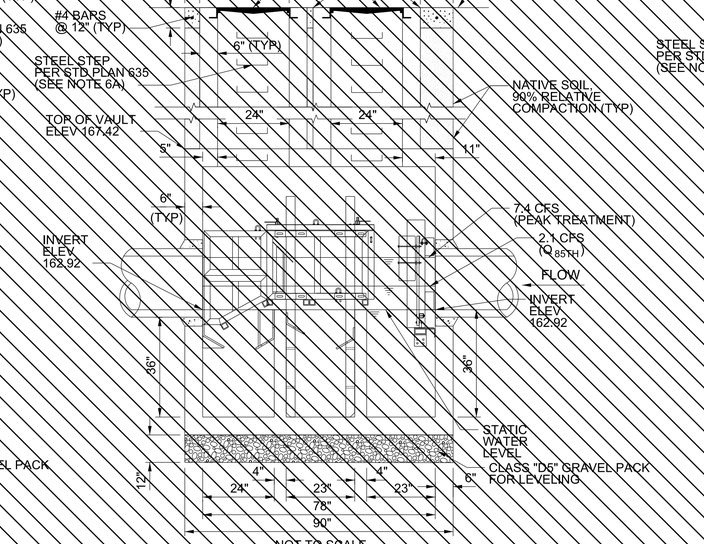
PLAN VIEW
SOUTHSIDE DR AT COOLIDGE WAY FILTRATION UNIT (DETAIL IA, SH 14)
NOT TO SCALE

TREATMENT SPECIFICATIONS

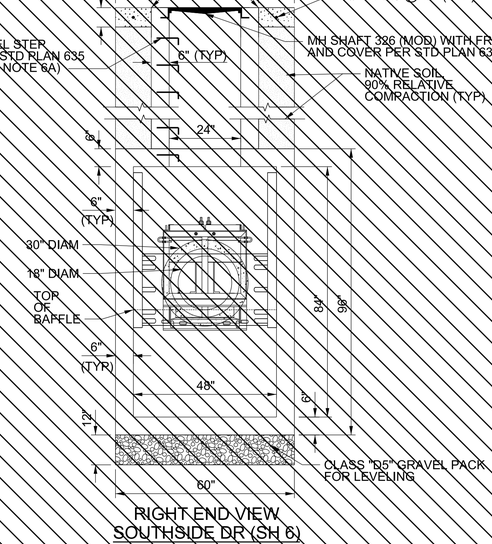
1.	INFLOW PIPE AREA (DRAWN AS 18" RCP)	1.77 SF
2.	PEAK TREATMENT FLOW	7.40 CFS
3.	SCREEN SYSTEM STORAGE VOLUME (MIN)	21.2 CF
4.	TOTAL SEDIMENT VOLUME (MIN)	70.0 CF



LEFT END VIEW
SOUTHSIDE DR (SH 6)
NOT TO SCALE



NOT TO SCALE
FRONT SIDE VIEW
SOUTHSIDE DR (SH 6)



RIGHT END VIEW
SOUTHSIDE DR (SH 6)
NOT TO SCALE

CONSTRUCTION NOTES

1. CONCRETE 28 DAYS COMPRESSIVE STRENGTH, F'c = 5,000 PSI
2. REINFORCING: ASTM A-615 GRADE 60
3. SUPPORTS AN H20 LOADING AS INDICATED BY AASHTO
4. JINT SEALANT: BUTYL RUBBER SS-S-00210
5. ALL WALLS (TOP, BOTTOM, EXTERIOR SIDE) TO BE 6" THICK CONCRETE.

INSTALLATION NOTES

1A. INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE, CANNOT INTRUDE BEYOND FLUSH.
2A. BAFFLES WILL BE SEALED TO THE WALLS AND FLOOR WITH GROUT.
3A. INVERT OF OUTFLOW PIPE SHALL BE EVEN WITH THE TOP OF THE BAFFLES.
4A. THE BOTTOM OF THE SKIMMER SHALL BE 6" BELOW THE INVERT OF THE OUTFLOW PIPE.
5A. INVERT OF THE INFLOW PIPE SHALL NOT BE BELOW THE INVERT OF THE OUTFLOW PIPE.
6A. THE ENGINEER SHALL DETERMINE THE SIDE OF THE MANHOLE SHAFT WHERE STERS SHALL BE INSTALLED.

DATE	MK	REVISIONS
04/28/22	■	AS BUILT REVISIONS

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER RAE — C 84117 — CIVIL — STATE OF CALIFORNIA

07/10/18
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

FILTRATION UNIT DETAILS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27	PD053092	SHEET 15 OF ~~26~~ 27

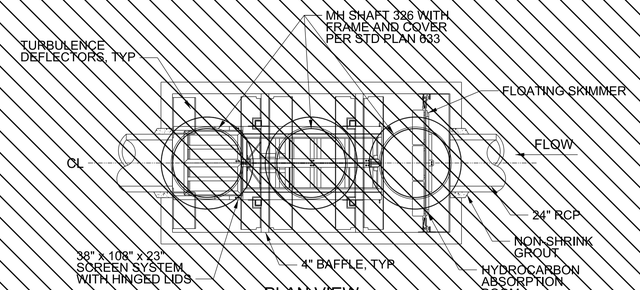
DRAFTER: S. LU / L. CHAVEZ
DESIGNER: C. RAVE
CHECKER: D. RADLE
CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN

AS BUILT DRAWINGS

PLAN DR

$FILE$

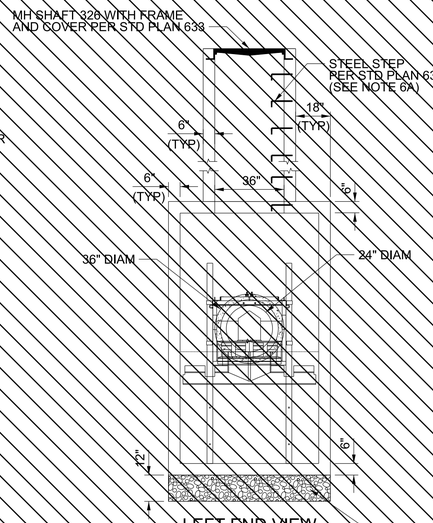
■ SEE SHEET 27 FOR UPDATED FILTRATION UNIT DETAILS



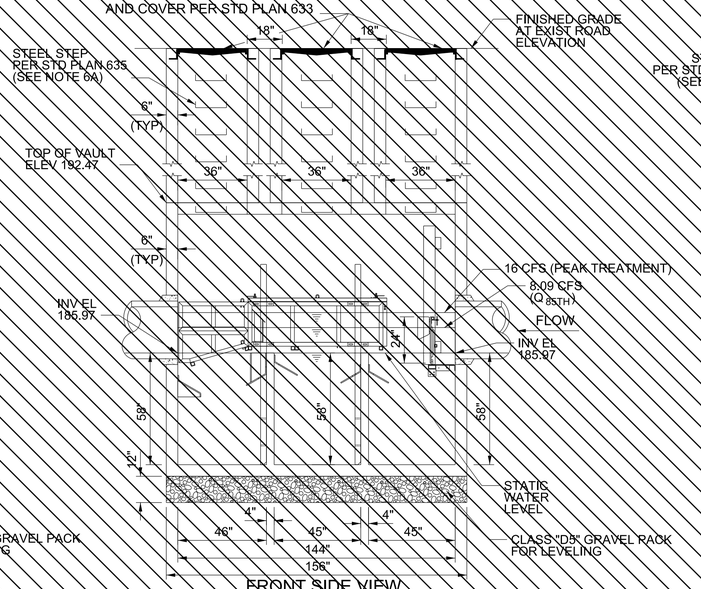
PLAN VIEW
NORTHSIDE DR AT GARFIELD AVE FILTRATION UNIT (DETAIL G, SH 14)
NOT TO SCALE

TREATMENT SPECIFICATIONS

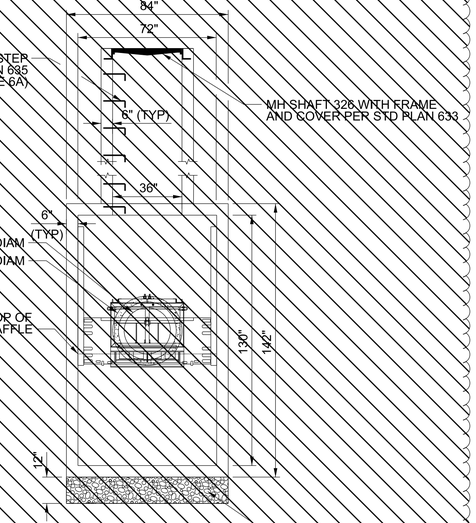
1. INFLOW PIPE AREA (DRAWN AS 24" RCP)	3.14 SF
2. PEAK TREATMENT FLOW	16.0 CFS
3. SCREEN SYSTEM STORAGE VOLUME (MIN)	54.6 CF
4. TOTAL SEDIMENT VOLUME (MIN)	329 CF



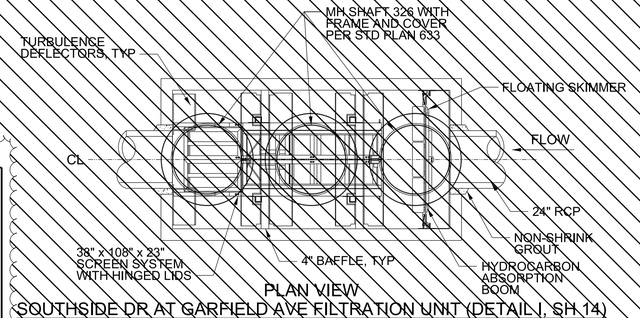
LEFT END VIEW
NORTHSIDE DR (SH 8)
NOT TO SCALE



FRONT SIDE VIEW
NORTHSIDE DR (SH 8)
NOT TO SCALE



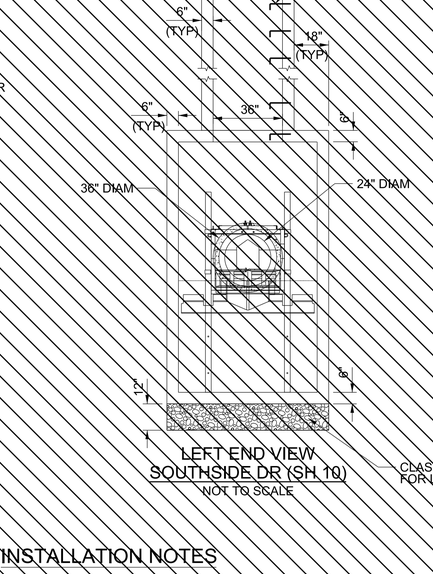
RIGHT END VIEW
NORTHSIDE DR (SH 8)
NOT TO SCALE



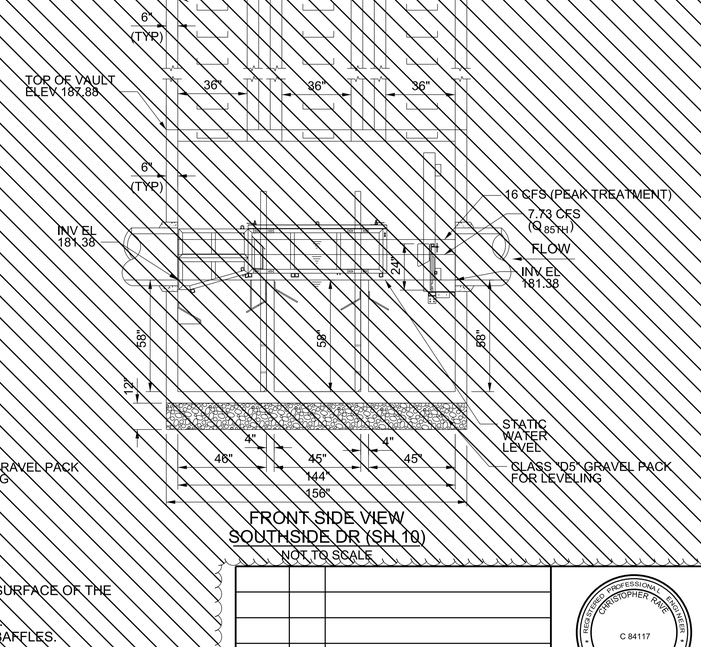
PLAN VIEW
SOUTHSIDE DR AT GARFIELD AVE FILTRATION UNIT (DETAIL I, SH 14)
NOT TO SCALE

TREATMENT SPECIFICATIONS

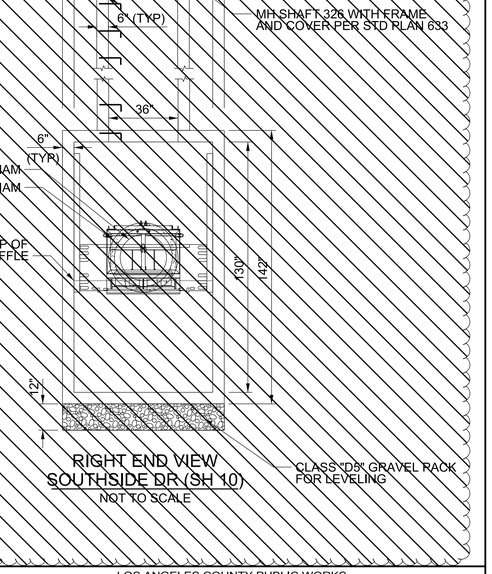
1. INFLOW PIPE AREA (DRAWN AS 24" RCP)	3.14 SF
2. PEAK TREATMENT FLOW	16.0 CFS
3. SCREEN SYSTEM STORAGE VOLUME (MIN)	54.6 CF
4. TOTAL SEDIMENT VOLUME (MIN)	329 CF



LEFT END VIEW
SOUTHSIDE DR (SH 10)
NOT TO SCALE



FRONT SIDE VIEW
SOUTHSIDE DR (SH 10)
NOT TO SCALE



RIGHT END VIEW
SOUTHSIDE DR (SH 10)
NOT TO SCALE

CONSTRUCTION NOTES

1. CONCRETE 28 DAYS COMPRESSIVE STRENGTH, F'c = 5,000 PSI
2. REINFORCING: ASTM A-615 GRADE 60
3. SUPPORTS AN H20 LOADING AS INDICATED BY AASHTO
4. JOINT SEALANT: BUTYL RUBBER SS-S-00210
5. ALL WALLS (TOP, BOTTOM, EXTERIOR SIDE) TO BE 6" THICK CONCRETE.

INSTALLATION NOTES

1A. INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. CANNOT INTRUDE BEYOND FLUSH.
2A. BAFFLES WILL BE SEALED TO THE WALLS AND FLOOR WITH GROUT.
3A. INVERT OF OUTFLOW PIPE SHALL BE EVEN WITH THE TOP OF THE BAFFLES.
4A. THE BOTTOM OF THE SKIMMER SHALL BE 8" BELOW THE INVERT OF THE OUTLFOW PIPE.
5A. INVERT OF THE INFLOW PIPE SHALL NOT BE BELOW THE INVERT OF THE OUTFLOW PIPE.
6A. THE ENGINEER SHALL DETERMINE THE SIDE OF THE MANHOLE SHAFT WHERE STERS SHALL BE INSTALLED.

DATE		DESCRIPTION
04/28/22	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER RAVE — C 84117 — CIVIL — STATE OF CALIFORNIA

07/10/18
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

FILTRATION UNIT DETAILS

PROJECT ID NO. WMU0000010

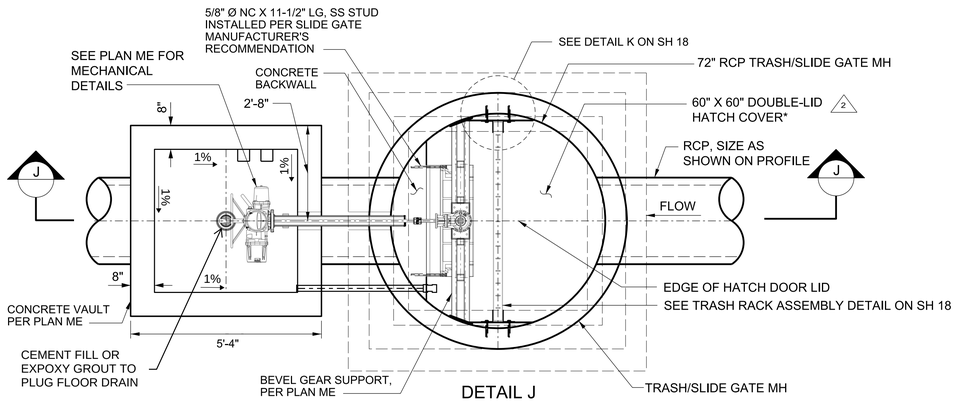
LACFCD INDEX NO. 116-D27	PD053092	SHEET 16 OF ~~26~~ 27

DRAFTER: S. LU / L. CHAVEZ
DESIGNER: C. RAVE
CHECKER: D. RADLE
CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN

AS BUILT DRAWINGS

PLAN DR

SFILELS

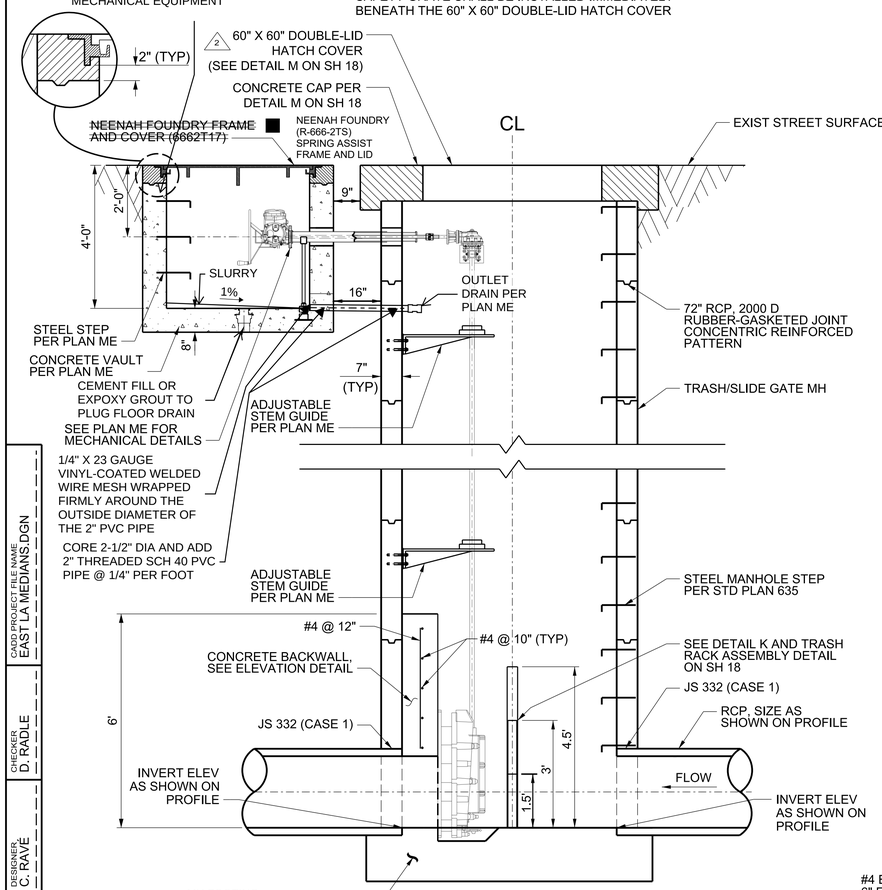


DETAIL J
VAULT AND TRASH/SLIDE GATE MH

SCALE: 1/2" = 1'-0"
SEE PLAN EE FOR ELEC DETAILS

3 FOR WA 4 ONLY: REMOVE MECHANICAL EQUIPMENT AND VAULT, COMPACT SUBGRADE, REALIGN VAULT, REINSTALL MECHANICAL EQUIPMENT

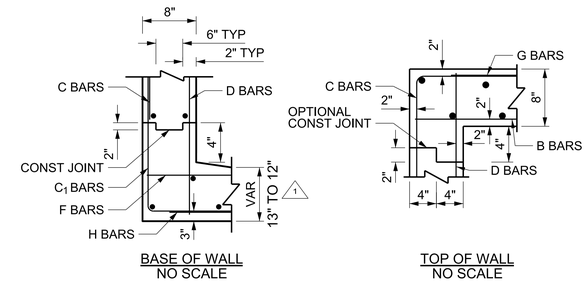
* SAFETY GRATE SHALL BE INSTALLED IMMEDIATELY BENEATH THE 60" X 60" DOUBLE-LID HATCH COVER



SECTION J-J
MONTEBELLO PKWY (SH 6), NORTHSIDE DR (SH 8), AND SOUTHSIDE DR (SH 10)

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

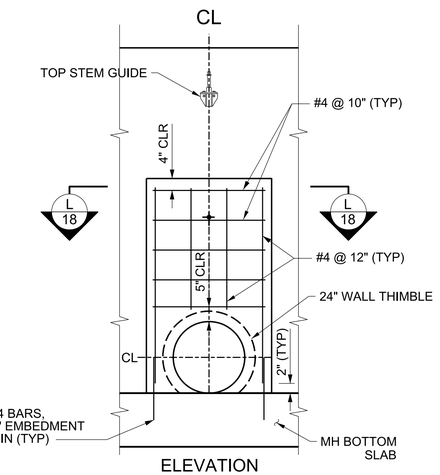
STRUCTURAL VALUES				
LOCATION			MONTEBELLO PKWY/ LEONARD AVE	SOUTHSIDE DR/ COOLIDGE WY
DESIGN COVER			2'	3'-4"
WIDTH		W	4'	3.5'
HEIGHT		H_1	3.5'	3.5'
TOP SLAB THICKNESS		T_1	8"	8"
SIDE WALL THICKNESS		T_2	8"	8"
BOTTOM SLAB THICKNESS		T_3	12"	12"
CONCRETE COVER (3" MIN)		Y	3"	3"
B BARS	BAR NO. & SPACING		5 @ 6"	5 @ 6"
	LENGTH		5 ft	4.5 ft
B_1 BARS	BAR NO. & SPACING			
	LENGTH			
C BARS	BAR NO. & SPACING		5 @ 9"	5 @ 9"
	HOR. LENGTH		1.2 ft	1.4 ft
	VERT. LENGTH		3.0 ft	3.0 ft
C_1 BARS	BAR NO. & SPACING		5 @ 9"	5 @ 9"
	HOR. LENGTH		1.2 ft	1.1 ft
	VERT. LENGTH		3.4 ft	3.4 ft
D BARS	BAR NO. & SPACING		5 @ 9"	5 @ 9"
	LENGTH		4.58 ft	4.58 ft
F BARS	BAR NO. & SPACING		5 @ 9"	5 @ 9"
	LENGTH		5 ft	4.5 ft
F_1 BARS	BAR NO. & SPACING			
	LENGTH			
G BARS	BAR NO. & SPACING		5 @ 6"	5 @ 6"
	LENGTH		5 ft	4.5 ft
H BARS	BAR NO. & SPACING		5 @ 9"	5 @ 9"
	LENGTH		5 ft	4.5 ft



BASE OF WALL
NO SCALE

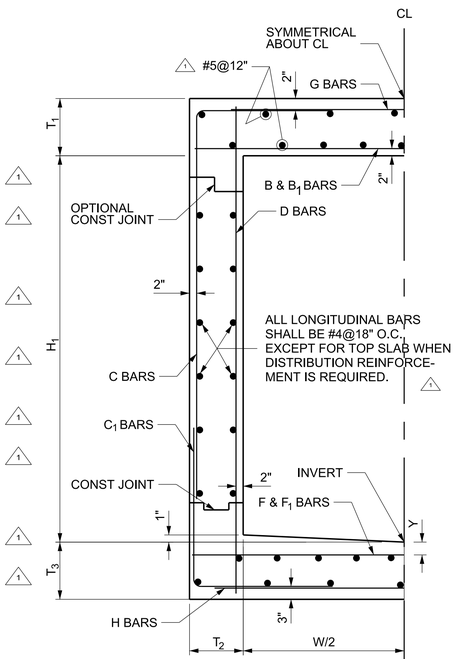
TOP OF WALL
NO SCALE

LONGITUDINAL CONSTRUCTION JOINT DETAILS



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

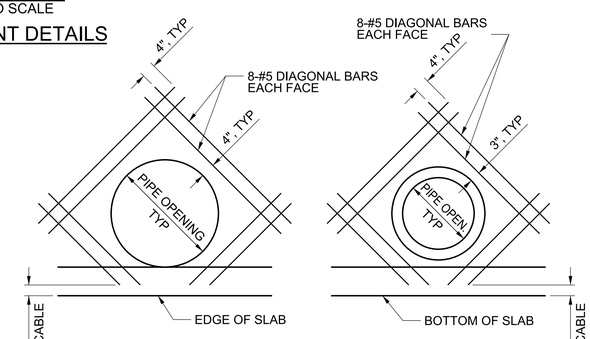
TYPICAL AT ALL LOCATIONS WITH SLIDE GATE.



DIVERSION STRUCTURE STRUCTURAL DETAIL
NOT TO SCALE

STRUCTURAL NOTES

1. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE CLEAR DISTANCE BETWEEN FACE OF CONCRETE AND FACE OF REINFORCEMENT.
2. CONCRETE DIMENSIONS SHALL BE MEASURED HORIZONTALLY OR VERTICALLY ON THE PROFILE, AND PARALLEL TO OR AT RIGHT ANGLES (OR RADIALLY) TO CENTERLINE OF CONDUIT ON THE PLAN EXCEPT AS OTHERWISE SHOWN.
3. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)," LATEST EDITION, SECTION 7.2.
4. TRANSVERSE CONSTRUCTION JOINTS IN WALLS AND SLABS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED. TRANSVERSE CONSTRUCTION JOINTS SHALL BE NORMAL OR RADIAL TO THE CENTERLINE OF CONSTRUCTION.
5. THE TRANSVERSE REINFORCING BARS SHALL TERMINATE ONE AND ONE-HALF INCHES FROM THE CONCRETE SURFACES UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DETAILS.
6. EXPOSED SURFACES OF CONCRETE MEMBERS SHALL BE ROUNDED OR BEVELED.
7. NO SPLICES IN TRANSVERSE BARS REINFORCEMENT WILL BE PERMITTED OTHER THAN SHOWN ON THE PLAN WITHOUT APPROVAL OF THE ENGINEER. NO MORE THAN TWO SPLICES WILL BE PERMITTED IN ANY LONGITUDINAL BAR BETWEEN TRANSVERSE JOINTS. SPLICES SHALL BE STAGGERED.
8. LONGITUDINAL BARS SHALL BE LAPPED 20 BAR DIAMETERS AT SPLICES. TRANSVERSE BARS SHALL BE LAPPED 30 BAR DIAMETERS AT SPLICES.
9. LONGITUDINAL BARS SHALL BE CONTINUOUS AND EXTEND THROUGH ALL CONSTRUCTION JOINTS.
10. UNLESS OTHERWISE SHOWN ON THE PLANS, TRANSVERSE CONSTRUCTION JOINTS (IN BOTH SLABS AND WALLS) SHALL BE PLACED AT THE END OF EACH POUR, BUT THE SPACING THEREOF SHALL NOT BE LESS THAN 10 FEET.
11. AT THE BEGINNING AND ENDING OF ALL POURS, A CURTAIN OF REINFORCEMENT COMPOSED OF B, C, C1, D, F, F1, G, AND H BARS SHALL BE PLACED THREE INCHES FROM THE TRANSVERSE CONSTRUCTION JOINT.
12. D BARS MAY BE SPLICED 20 BAR DIAMETERS AT THE LOWER LONGITUDINAL CONSTRUCTION JOINT, AT CONTRACTOR'S OPTION.
13. IN ALL SECTIONS LAP C AND C1 BARS, THE VERTICAL LENGTH OF C AND C1 HAS BEEN CALCULATED FOR A FOUR-INCH STARTER WALL. IF THE HEIGHT OF THE STARTER WALL IS VARIED, THE VERTICAL LENGTH OF THE C AND C1 BARS SHALL BE VARIED CORRESPONDINGLY SO AS TO MAINTAIN A 30 DIAMETER LAP BETWEEN THE TWO BARS. THE LAPS SHALL BE BASED ON THE SMALLER BARS.
14. CONCRETE QUANTITIES ARE BASED ON A SIX-BY-SIX INCH FILLET AND STEEL QUANTITIES DO NOT INCLUDE ANY OPTIONAL SPLICES.
15. GROUT BETWEEN ANY CUT SURFACES WITHIN THE STORM DRAIN TO PREVENT WATER FROM SEEPING IN-BETWEEN THE CONNECTIONS.



TYPICAL AT TOP OF SLAB
NO SCALE

TYPICAL WALL
NO SCALE

DIAGONAL BARS AT PIPE OPENING DETAILS 1

STRUCTURAL DESIGN CRITERIA

LACFCD STRUCTURAL DESIGN MANUAL

DATED APRIL 1982 + 2000 UPDATES

LIVE LOAD

HS 20-44 UNLESS OTHERWISE NOTED

DEAD LOAD

EARTH LOAD: w= 120 PCF
Ku=Ku'=0.150
Bd=OUTSIDE WIDTH OF BOX PLUS 3 FEET
SIDE EARTH ACTIVE = 37 PCF
INTERNAL WATER PRESSURE: 62.4 PSF PER FOOT OF DEPTH
WEIGHT OF CONCRETE: 150 PCF

ALLOWABLE STRESSES

F'c=4000 PSI AT 28 DAYS

Fy =60,000 PSI

SHEAR AND BOND STRESSES PER THE LATEST EDITION OF ACI 318

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS
01/28/21	3	UPDATED ACTUATOR VAULT DETAILS.
12/02/20	2	UPDATED TRASH/SLIDE GATE MH COVER AND ADDED SAFETY GRATE.
10/27/20	1	UPDATED STRUCTURAL DETAILS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER RAVE — C 84117 — CIVIL — STATE OF CALIFORNIA

Chris Rave 07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

STRUCTURAL DETAILS AND SECTIONS

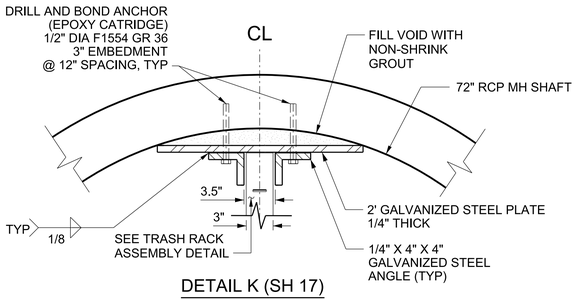
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27	PD053092	SHEET 17 OF ~~26~~ 27

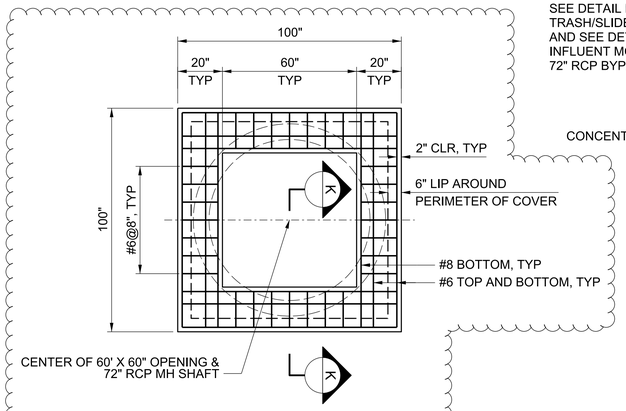
CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ

AS BUILT DRAWINGS

PLAN DR



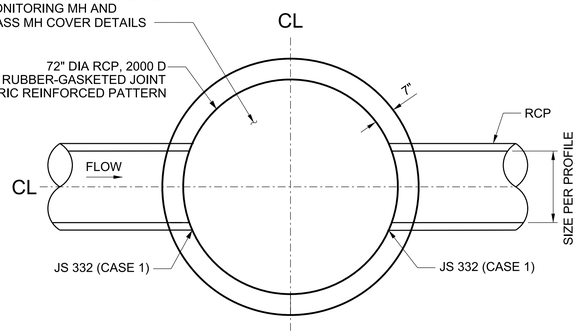
DETAIL K (SH 17)
NOT TO SCALE



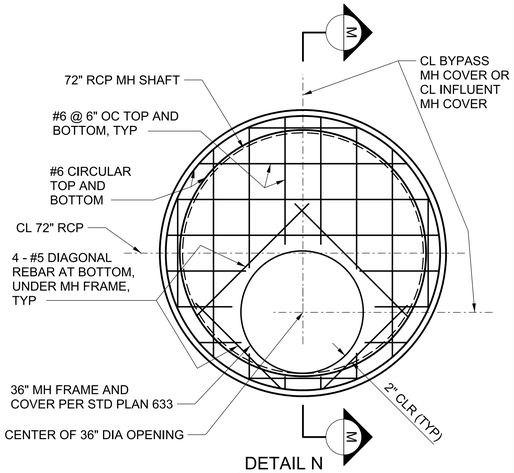
DETAIL M (SH 17)
REINFORCEMENT OF COVER FOR
TRASH/SLIDE GATE MANHOLE
NOT TO SCALE

1

SEE DETAIL M HEREON FOR 72" RCP TRASH/SLIDE GATE MH COVER DETAILS, AND SEE DETAIL N HEREON FOR 72" RCP INFLUENT MONITORING MH AND 72" RCP BYPASS MH COVER DETAILS

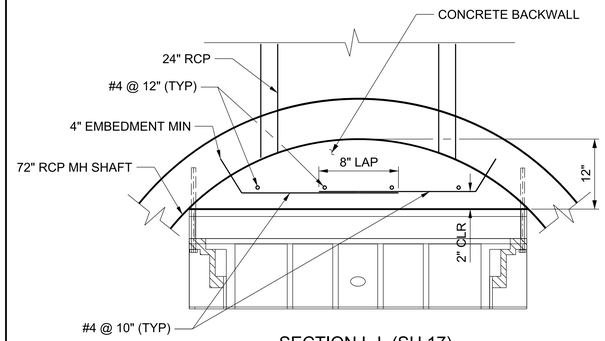


PLAN VIEW FOR 72" RCP BYPASS MH,
72" RCP INFLUENT MONITORING MH,
AND 72" RCP TRASH/SLIDE GATE MH
SCALE 1/2"=1'
SEE SH 4, 6, 8, AND 10 FOR LOCATION

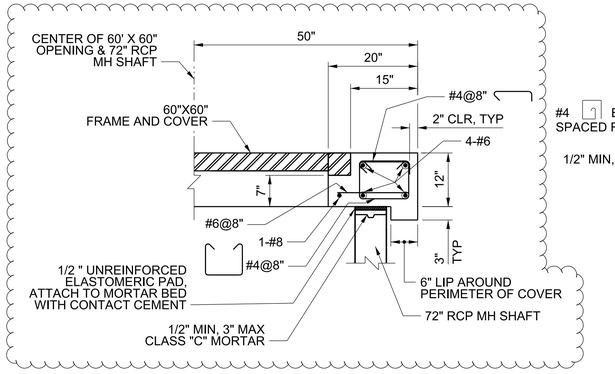


DETAIL N
NOT TO SCALE

THE ENGINEER SHALL DETERMINE THE SIDE OF THE MANHOLE WHERE THE 36" DIAMETER OPENING IS TO BE LOCATED.

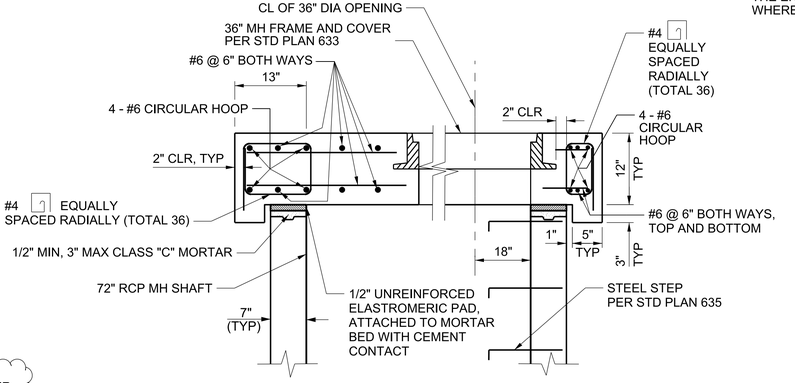


SECTION L-L (SH 17)
CONCRETE BACK WALL
AND THIMBLE PLACEMENT
NOT TO SCALE

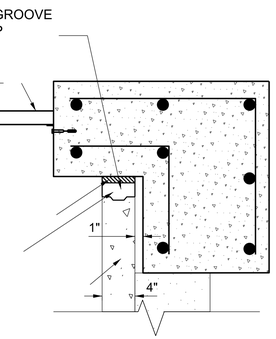


SECTION K-K
NOT TO SCALE

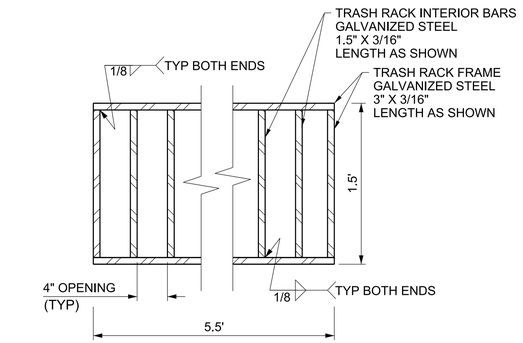
1



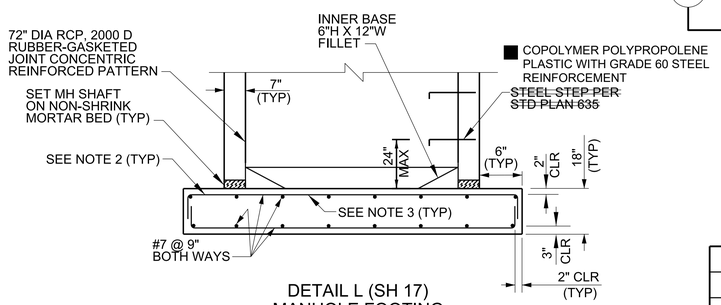
SECTION M-M
NOT TO SCALE



SECTION C1-C1 (SH 3)
NOT TO SCALE

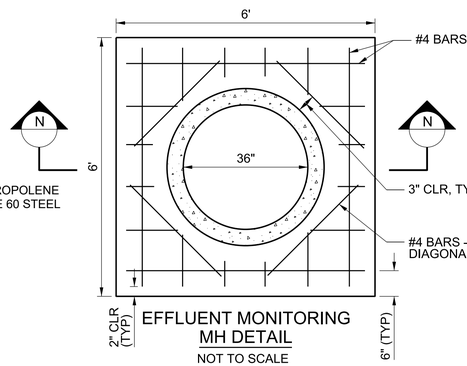


TRASH RACK ASSEMBLY DETAIL (SH 17)
NOT TO SCALE

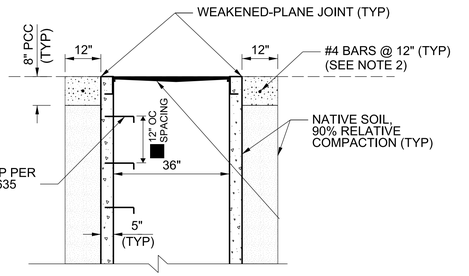


DETAIL L (SH 17)
MANHOLE FOOTING
NOT TO SCALE

1. APPLICABLE FOR ALL MANHOLES THAT INCLUDE 72" RCP VERTICAL CASING.
2. MODIFY REBAR LAYOUT TO ACCOMMODATE PIPE CONNECTIONS.
3. MODIFY REBAR LAYOUT TO ACCOMMODATE BOX-OUTS FOR TRASH/SLIDE GATE MANHOLES.



EFFLUENT MONITORING
MH DETAIL
NOT TO SCALE



SECTION N-N
NOT TO SCALE

1. LOCATION OF THE STEEL STEP PER STD PLAN 635 SHALL BE DETERMINED BY THE ENGINEER.
2. CONCRETE CAP IS ONLY APPLICABLE FOR THE LOCATION SHOWN ON SHEET 6.

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS
11/04/20	1	UPDATED STEEL FRAME AND COVER DIMENSIONS.

REVISIONS

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER R. RAVE C 84117 CIVIL STATE OF CALIFORNIA

Chris Rave 07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

STRUCTURAL DETAILS AND SECTIONS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 18 OF ~~26~~ 27

DRAFTER S. LU
DESIGNER C. RAVE
CHECKER D. RADLE
CADD PROJECT FILE NAME EAST LA MEDIANS.DGN

AS BUILT DRAWINGS

PLAN DR

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-1	Date(s) Drilled: 5/22/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: intersection of Montebello Pkwy and Leonard Pl, (north island).		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01821, -118.14417		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~184'	Page 1 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0							SILT; medium stiff, reddish brown, slightly moist; no plasticity; dry turf grass at the surface.							
5	1R			27/15/22		ML	very stiff; traces of medium to coarse grained SAND.							CR DS SE
	2B													
10	3R			6/21/32			hard, dry.							DS
15	4R			28/50 per 5"			some medium to coarse grained SAND.							
20	5R			19/35/50 per 5"		SM	SILTY SAND with GRAVEL; very dense, reddish brown, dry; medium to coarse grained SAND; some fine to coarse GRAVEL.							
	E20													
25	6R			28/27/50 per 5"		SP	POORLY-GRADED SAND with GRAVEL; very dense, orange brown, dry; fine to medium grained SAND; some fine to coarse GRAVEL; fragments of cobbles (~3" to 4" diameter); moderate cementation.							CO
30	7R			25/38/50 per 5"		SW	WELL-GRADED SAND with GRAVEL; very dense, orange brown, moist; fine to coarse grained SAND; some fine to coarse GRAVEL; fragments of cobbles (~3" to 4" diameter); moderate cementation.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
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DEPTH (FEET)	Sample No.	Type	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R			25/38/50 per 5"		SW								
35	8R			33/50 per 4"			very dense, grey with brown and orange, dry.							
40	9R			40/50 per 4"		SM	SILTY SAND with GRAVEL; very dense, tan with gray, dry; fine to coarse grained SAND; some angular fine to coarse GRAVEL; moderate cementation.							
	E40													
45	10B			12/16/24		ML	SILT; hard, reddish brown, moist; no plasticity.							
50	11B			17/20/20		SP	POORLY-GRADED SAND; very dense, reddish brown, moist; fine to medium grained SAND; traces of fine GRAVEL.							
55	12B			15/19/21		SM	SILTY SAND; very dense, reddish brown, moist; fine to medium grained SAND; traces of fine to coarse GRAVEL.							
60	E60			22/38/36		SW	WELL-GRADED SAND with GRAVEL; very dense, reddish brown, moist; fine to medium grained SAND; little fine to coarse GRAVEL.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
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PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

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Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

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DEPTH (FEET)	Sample No.	Type	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60	E50			22/38/36		SW	orange brown; fine to medium grained SAND; some fine to coarse GRAVEL.							
65				19/43/40		ML	SANDY SILT with GRAVEL; hard, orange brown, moist; fine to medium grained SAND; little of fine GRAVEL; no plasticity.							
70	13B			20/24/39		SW	WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
75	14B			45/50 per 5"		SM	SILTY SAND; very dense, reddish brown, moist; fine to medium grained SAND.							
80	E80			14/50 per 6"		SW	WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.							
85				13/14/25		ML	SANDY SILT; hard, orange brown, moist; fine grained SAND; no plasticity.							
90	15B			10/19/33		SW	WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-1	Date(s) Drilled: 5/22/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: intersection of Montebello Pkwy and Leonard Pl, (north island).		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01821, -118.14417		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~184'	Page 4 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90	15B			10/18/33		ML	SANDY SILT; hard, orange brown, moist; fine to medium grained SAND; no plasticity.							
95				17/31/40		SP	POORLY-GRADED SAND; very dense, tan, moist; fine to medium grained SAND; traces of fine to coarse GRAVEL.							
100	16B			29/50 per 4"		SW	WELL-GRADED SAND with GRAVEL; very dense, tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
105							End of boring at 101'; boring terminated at planned depth, no groundwater was encountered.							
110														
115														
120														

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-2	Date(s) Drilled: 5/23/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: intersection of Montebello Pkwy and Leonard Pl, (south island).		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01821, -118.14412		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~182'	Page 1 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0							SILT; stiff, brown, dry; no plasticity; dry turf grass at the surface.							
5	1R			59/10/12		ML	reddish brown.							CR DS SE
	2B													
10	3R			5/16/46			hard, slightly moist; traces of fine to medium grained SAND.							
15	4R			11/19/28		SP	POORLY-GRADED SAND; very dense, light brown, dry; fine to medium grained SAND; traces of fine GRAVEL.							
20	5R			9/38/50 per 3"		SM	SILTY SAND; very dense, reddish brown and tan, dry; fine to medium grained SAND.							CO
	E20													
25	6R			14/36/37		ML	SANDY SILT; hard, reddish brown and tan, dry; fine grained SAND; traces of fine GRAVEL; no plasticity.							
30	7R			15/28/50		SW	WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL. intervals of GRAVEL between 25' to 55'.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-2	Date(s) Drilled: 5/23/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: intersection of Montebello Pkwy and Leonard Pl, (south island).		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01821, -118.14412		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~182'	Page 2 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R			15/28/50		SW	WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.							
35	8R			12/14/21		SP	POORLY-GRADED SAND; dense, reddish brown and tan, dry; fine to medium grained SAND; traces of fine to coarse GRAVEL.							CO
40	9R			27/16/18		SM	SILTY SAND with GRAVEL; dense, reddish brown and tan, slightly moist; fine to coarse grained SAND; some fine to coarse GRAVEL; fragments of cobbles (~3" diameter).							
	E40													
45	10B			23/35/29		SW	WELL-GRADED SAND with GRAVEL; very dense, brown and gray, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.							
50				14/28/47			brown and tan; traces of fine to coarse GRAVEL.							
55	11B			11/24/36 for 4"		ML	SANDY SILT; hard, reddish brown and tan, dry; fine to coarse grained SAND; traces of fine to coarse GRAVEL.							
60	12B			10/22/50 for 5"		SM	SILTY SAND; very dense, reddish brown, moist; fine to coarse grained SAND.							
	E60													

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-2	Date(s) Drilled: 5/23/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: intersection of Montebello Pkwy and Leonard Pl, (south island).		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01821, -118.14412		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~182'	Page 3 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60	12B			10/22/50 per 5"		SM	SILTY SAND; very dense, reddish brown, moist; fine to coarse grained SAND.							
65				14/31/22		SW	WELL-GRADED SAND; very dense, reddish brown and tan, dry; fine to coarse grained SAND.							
70	13B			6/9/17		ML	SILT; medium stiff, reddish brown, dry; traces of medium to coarse grained SAND; little to no plasticity. intervals of GRAVEL between 70' to 80'.							
75	14B			9/19/25		SM	SILTY SAND; dense, reddish brown, moist; medium to coarse grained SAND; traces of fine to coarse GRAVEL; moderate cementation.							
80	15B			27/50 per 5"		SW	WELL-GRADED SAND with GRAVEL; very dense, reddish brown, dry; fine to coarse grained SAND; some fine to coarse GRAVEL; moderate cementation.							
	E80													
85				21/29/32		SP	POORLY-GRADED SAND; very dense, reddish brown, moist; fine to medium grained SAND; moderate cementation.							
90				15/23/30			light brown, dry; traces of fine GRAVEL; weak cementation.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-2	Date(s) Drilled: 5/23/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: intersection of Montebello Pkwy and Leonard Pl, (south island).		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01821, -118.14412		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~182'	Page 4 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90				15/23/30		SP								
95	16B			14/13/14		ML	SILT; stiff, reddish brown, moist; low plasticity.							
100	17B			15/20/33		SP	POORLY-GRADED SAND; very dense, brown and tan, dry; fine to medium grained SAND.							
105						ML	SANDY SILT; hard, reddish brown, dry; fine grained SAND; no plasticity. End of boring at 101'; boring terminated at planned depth, no groundwater was encountered.							
110														
115														
120														

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

CADD PROJECT FILE NAME

CHECKER

DESIGNED: C. RAVE

DRAFTER: C. RAVÉ

DATE	MK	REVISIONS
04/28/22	■	AS BUILT REVISIONS

PROFESSIONAL ENGINEER — No. 85820 — CIVIL — STATE OF CALIFORNIA

03/27/18
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

LOG OF BORINGS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 19 OF 26 27

AS BUILT DRAWINGS

PLAN DR

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-3	Date(s) Drilled: 5/25/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~183'	Page 1 of 4		
Boring Location: In front of 6031 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 101 ft.			
Latitude & Longitude: 34.01614, -118.14235	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Equipment: CME-95
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Dry Density (pcf)	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0							ML	SILT; stiff, reddish brown, dry; no plasticity; dry turf grass at the surface.							
5	1R				15/18/24			very stiff; traces of fine GRAVEL.							CR DS
	2B						SM	SILTY SAND; medium dense, reddish brown, moist; fine grained SAND.							
10	3R				10/11/15										CO
	4R				4/11/23		ML	SANDY SILT; very stiff, reddish brown, dry; fine to coarse grained SAND; no plasticity.							
15	5R				9/28/24		SM	SILTY SAND; medium dense, reddish brown, moist; fine to medm grained SAND; traces of fine to coarse GRAVEL.							
	E20							intervals of GRAVEL between 20' to 30'.							
20	6R				16/50 per 4"		SW	WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL; moderate cementation.							
25	7R				50 per 5"		SM	SILTY SAND with GRAVEL; very dense, reddish brown, dry; fine to coarse grained SAND; some fine to coarse GRAVEL; fragments of cobbles (~3" to 5" diameter); moderate cementation.							CO
30							SP								

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
MD - Maximum Density
PE - Permeability
SA - Sieve Analysis
SE - Sand Equivalence
TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-3	Date(s) Drilled: 5/25/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~183'	Page 2 of 4		
Boring Location: In front of 6031 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 101 ft.			
Latitude & Longitude: 34.01614, -118.14235	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Equipment: CME-95
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Dry Density (pcf)	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R				50 for 5"		SM								
35	8R				16/25/42		ML	SILT; hard, reddish brown and orange, slightly moist; no plasticity.							
40	9R				5/50 for 6"			SANDY SILT; hard, reddish brown, slightly moist; fine to medium grained SAND; traces of fine GRAVEL; no plasticity.							
	E40														
45	10B				14/15/16			very stiff.							
50					8/17/22			orange brown, slightly dry; fine grained SAND.							
55	11B				17/32/35		SM	SILTY SAND; very dense, reddish brown, dry; fine to coarse grained SAND; traces of fine to coarse GRAVEL.							
60	12B				3/6/8		ML	SILT; medium stiff, reddish brown, moist; traces of fine to coarse SAND; low plasticity.							
	E60														

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
MD - Maximum Density
PE - Permeability
SA - Sieve Analysis
SE - Sand Equivalence
TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-3	Date(s) Drilled: 5/25/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~183'	Page 3 of 4		
Boring Location: In front of 6031 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 101 ft.			
Latitude & Longitude: 34.01614, -118.14235	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Equipment: CME-95
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Dry Density (pcf)	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60	12B				3/6/8		ML								
	E60														
65	13B				14/29/28		SW	WELL-GRADED SAND with GRAVEL; very dense, tan and orange, dry; fine to coarse grained SAND; some fine to coarse GRAVEL; moderate cementation.							
70					12/20/18										
75	14B				11/21/27		ML	SILT with interbedded FINE SAND; hard, dark brown, moist; (fine grained SAND, tan, dry); no plasticity.							
80	E80				14/18/27			SANDY SILT with GRAVEL; hard, reddish brown, moist; medium to coarse grained SAND; traces of fine to coarse GRAVEL; no plasticity.							
85					12/16/50 for 5"			SILT; hard, reddish brown, moist; traces of fine to medium grained SAND; traces of fine to coarse GRAVEL; low plasticity.							
90					17/30/35		SW	slightly moist; no plasticity. WELL-GRADED SAND with GRAVEL; very dense, tan and orange, dry; fine to coarse grained SAND; some fine to coarse GRAVEL; moderate cementation.							
							SP								

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-3	Date(s) Drilled: 5/25/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~182'	Page 4 of 4		
Boring Location: In front of 6031 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 101 ft.			
Latitude & Longitude: 34.01614, -118.14235	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Equipment: CME-95
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Dry Density (pcf)	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90	15B				15/23/30		SP	POORLY-GRADED SAND with SILT lens (~2" to 3" thick); very dense, light brown, dry; fine to medium grained SAND; (SILT, reddish brown, moist).							
95					14/13/14		SW	WELL-GRADED SAND with GRAVEL; medium dense, tan and orange, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.							
100	16B				15/20/33		ML	SILT interbedded with LEAN CLAY; hard, orange brown and brown, moist; (LEAN CLAY, orange brown, moist, medium plasticity); low plasticity.							
105								End of boring at 101'; boring terminated at planned depth, no groundwater was encountered.							
110															
115															
120															

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
MD - Maximum Density
PE - Permeability
SA - Sieve Analysis
SE - Sand Equivalence
TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-4	Date(s) Drilled: 5/30/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~179'	Page 1 of 4		
Boring Location: In front of 5951 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01488, -118.14377	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Equipment: CME-95
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Dry Density (pcf)	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0							ML	SILT; medium stiff, reddish brown, dry; no plasticity; turf grass on the surface.							
5	1R				9/13/16			stiff; traces of medium to coarse grained SAND; traces of fine GRAVEL.							SE
	2B														
10	3R				8/13/20			traces of fine to medium grained SAND.							
15	4R				17/25/32		SM	SILTY SAND; very dense, brown, dry; fine to medium grained SAND; traces of fine GRAVEL.							CO
							ML	SILT; hard, reddish brown, dry; traces of medium to coarse grained SAND; traces of fine GRAVEL; no plasticity.							
20	5R				15/30/37										
	E20														
25	6R				19/36/37			low plasticity.							
30	7R				25/50 for 6"		SM	SILTY SAND with GRAVEL; very dense, tan and reddish brown, dry; fine to coarse grained SAND; little of fine GRAVEL; moderate cementation.							
							SP	intervals of GRAVEL between 25' to 35'.							CO

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-4	Date(s) Drilled: 5/30/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~179'	Page 2 of 4		
Boring Location: In front of 5951 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01488, -118.14377	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Equipment: CME-95
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Dry Density (pcf)	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R				25/50 per 6"		SP	POORLY-GRADED SAND with GRAVEL; very dense, tan, dry; fine to medium grained SAND; little fine to coarse GRAVEL; moderate cementation.							
35	8R				15/16/23		SW	WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
40	9R				17/40/50 per 4"		ML	SILT; hard, brown, dry; traces of fine to medium grained SAND; no plasticity.							
	E40							traces of medium to coarse grained SAND.							
45	10B				5/8/12			medium stiff, moist.							
50					21/49/49		SW	WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse angular GRAVEL.							
55	11B				10/30/28		ML	SILT; hard, reddish brown, slightly moist; traces of fine grained SAND; no plasticity.							
60	12B				5/14/23			moist; low plasticity.							
	E60														

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-4	Date(s) Drilled: 5/30/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~179'	Page 3 of 4		
Boring Location: In front of 5951 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01488, -118.14377	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Equipment: CME-95
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Dry Density (pcf)	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60	11B				5/14/23		ML	SANDY SILT; very stiff, reddish brown, dry; fine to medium grained SAND; no plasticity.							
	E60														
65					6/18/26		SP	POORLY-GRADED SAND; dense, orange brown, dry; fine to medium grained SAND.							
70					32/45/29		ML	SILT with WELL-GRADED SAND lens (~6" thick); hard, gray brown, moist; (WELL-GRADED SAND with GRAVEL; tan, dry; fine to coarse grained SAND, some coarse angular GRAVEL); no plasticity.							
75					9/17/16			very stiff, reddish brown, dry; traces of medium to coarse grained SAND; traces of fine GRAVEL.							
80	12B				24/50 per 5"		SM	SILTY SAND; very dense, reddish brown and tan, moist; fine to medium grained SAND; traces of fine to coarse GRAVEL; moderate cementation.							
	E80														
85					17/33/50 per 4"		ML	SILT (~1") thick lens at 85'; hard, brown, slightly moist; no plasticity.							
90					22/39/47		SP	POORLY-GRADED SAND; very dense, tan and orange, dry; medium to coarse grained SAND.							

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-4	Date(s) Drilled: 5/25/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~179'	Page 4 of 4		
Boring Location: In front of 5951 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01488, -118.14377	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Equipment: CME-95
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Dry Density (pcf)	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90					22/39/47		SP								
95					6/18/23		CL	LEAN CLAY; hard, brown, moist; low to medium plasticity.							
							SW	WELL-GRADED SAND with GRAVEL; dense, tan, dry; fine to coarse grained SAND; little fine to coarse angular GRAVEL.							
100					7/5/9 per 5"		ML	SILT with GRAVEL; hard, brown, dry; little fine angular GRAVEL; no plasticity.							
105								End of boring at 101'; boring terminated at planned depth, no groundwater was encountered.							
110															
115															
120															

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
MD - Maximum Density
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SA - Sieve Analysis
SE - Sand Equivalence
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CADD PROJECT FILE NAME

CHECKER

DESIGNED: C. RAVE

DRAFTER: C. RAVE

DATE	BY	DESCRIPTION
04/28/22	MK	AS BUILT REVISIONS

REVISIONS

PROFESSIONAL ENGINEER — No. 85820 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER — 03/27/18 — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

LOG OF BORINGS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 20 OF 26 27

AS BUILT DRAWINGS

PLAN DR

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-5	Date(s) Drilled: 5/31/17	Logged by: JJU,YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 5912 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01406, -118.14403		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~176'	Page 1 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0						ML	SILT; soft, reddish brown, dry; no plasticity; turf grass on the surface.							
5	1R			9/22/23			hard; traces of medium to coarse grained SAND.							CR DS
	2B													
10	3R			7/23/27			some medium grained SAND; low plasticity.							DS
15	4R			12/16/19			SANDY SILT; very stiff, brown, dry; fine to medium grained SAND; no plasticity.							
20	5R			11/18/20		SM	SILTY SAND; dense, brown, dry; fine to medium grained SAND.							CO
	E20													
25	6R			9/19/42		ML	SILT; hard, reddish brown, moist; no plasticity.							
30	7R			12/23/29			traces of medium to coarse grained SAND.							

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
MD - Maximum Density
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SA - Sieve Analysis
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-5	Date(s) Drilled: 5/31/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 5912 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01406, -118.14403		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~176'	Page 2 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R			12/23/29		ML								
35	8R			12/22/20										
40	9R			9/29/42		SM	SILTY SAND; very dense, orange brown, dry; fine to medium grained SAND; moderate cementation.							
	E40					ML	SILT; hard, brown and orange, moist; low plasticity.							
45				7/11/18		SM	SILTY SAND; medium dense, brown, dry; fine to medium grained SAND							
50				11/31/31		SW	WELL-GRADED SAND;, very dense, orange and gray and tan, dry; fine to coarse grained SAND; traces of fine GRAVEL.							
						ML	SANDY SILT; hard, reddish brown, dry; fine to medium grained SAND; no plasticity.							
55				22/50 per 6"		SM	SILTY SAND with GRAVEL; medium dense, reddish brown, dry, fine to coarse grained SAND; little fine to coarse GRAVEL.							
60				5/12/15		ML	SANDY SILT; medium stiff, reddish brown, moist; fine to coarse grained SAND; low plasticity.							
	E40													

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
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Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-5	Date(s) Drilled: 5/31/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 5912 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01406, -118.14403		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~176'	Page 3 of 4		
Total Depth: 101'	Depth to Invert: 101 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60				5/12/15		ML								
	E60													
65				20/26/37		SW	WELL-GRADED SAND with GRAVEL; very dense, orange and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.							
							intervals of GRAVEL between 65' to 100'.							
70				11/11/15		CL	LEAN CLAY; medium stiff, brown, moist; traces of fine to medium grained SAND; medium plasticity.							
75	10B			8/14/27		SW	SANDY SILT with GRAVEL; hard, reddish brown and brown, moist; medium to coarse grained SAND; little fine to coarse GRAVEL; low plasticity.							
80				17/41/50		SW	WELL-GRADED SAND with GRAVEL; very dense, reddish brown with orange and tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL; moderate cementation.							
	E80													
85				22/50 per 6"		ML	SANDY SILT; hard, reddish brown slightly moist; fine to medium grained SAND; no plasticity.							
						SM	SILTY SAND with GRAVEL; very dense, tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
90				21/40/43		SW								

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-5	Date(s) Drilled: 5/31/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 5912 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01406, -118.14403		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~176'	Page 4 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90	11B			21/40/43		SW	WELL-GRADED SAND with GRAVEL; very dense, tan and gray, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
95				24/27/21										
				7/50 per 5"		ML	SILT; hard, gray and brown, slightly moist; traces of fine to coarse grained SAND; no plasticity.							
100						SM	SILTY SAND with GRAVEL and interbedded layers of SILT; very dense, light brown, dry; fine to coarse grained SAND; some fine to coarse GRAVEL; (SILT, reddish brown, moist).							
105							End of boring at 101', boring terminated at planned depth, no groundwater was encountered.							
110														
115														
120														

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
MD - Maximum Density
PE - Permeability
SA - Sieve Analysis
SE - Sand Equivalence
TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-6	Date(s) Drilled: 6/02/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 5962 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01778, -118.14427		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~170'	Page 1 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0						ML	SILT; soft, reddish brown, dry; no plasticity; turf grass on the surface.							
5	1R			13/14/16			stiff; traces of medium to coarse grained SAND.							CR DS
	2B													
10	3R			8/15/27		CL	LEAN CLAY; hard, reddish brown, slightly moist; low to medium plasticity.							
15	4R			5/9/16			medium stiff, moist; medium plasticity.							
20	5R			9/10/17		ML	SANDY SILT; stiff, brown, dry; fine grained SAND; no plasticity.							CO
	E20													
25	6R			8/14/24		CL	LEAN CLAY; very stiff, reddish brown, slightly moist; medium plasticity.							
30	7R			10/19/40			hard, dry; traces of medium to coarse grained SAND.							

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
MD - Maximum Density
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-6	Date(s) Drilled: 6/2/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 5962 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01778, -118.14427		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~170'	Page 2 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R			10/19/40		CL								
35	8R			11/23/41			traces of fine to coarse grained SAND.							
40	9R			14/21/34		ML	SANDY SILT; hard, reddish brown, dry; fine to coarse grained SAND; traces of fine GRAVEL; low plasticity.							
	E40													
45				10/12/20			very stiff, reddish brown and gray brown, slightly moist; fine to medium grained SAND; no plasticity.							
50				13/27/31		SW	WELL-GRADED SAND with GRAVEL and interbedded SANDY SILT; very dense, tan, dry; fine to coarse grained SAND; little fine GRAVEL; (SANDY SILT, reddish brown, slightly moist, fine to medium grained SAND, no plasticity).							
55				14/28/29			very dense, tan and gray, dry.							
60				11/8/15		CL								
	E60													

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
MD - Maximum Density
PE - Permeability
SA - Sieve Analysis
SE - Sand Equivalence
TR - Triaxial

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Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-6	Date(s) Drilled: 6/2/17	Logged by: JJU	Boring Diameter: 8 / 18 in.
Boring Location: In front of 5962 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01778, -118.14427		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~170'	Page 3 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60				11/8/15		CL	SANDY CLAY with GRAVEL; medium stiff, reddish brown and orange brown, slightly moist; fine to medium grained SAND; some fine to coarse GRAVEL; low to medium plasticity.							
	E60													
65				15/28/50 per 6"		ML	SANDY SILT; hard, brown and orange brown, dry; fine to medium grained SAND; no plasticity.							
						SP	POORLY-GRADED SAND with GRAVEL; very dense, tan and gray, dry; fine to medium grained SAND; little fine GRAVEL.							
70	10B			18/30/44		SW	WELL-GRADED SAND with GRAVEL; very dense, tan and orange with gray, dry; fine to coarse grained SAND; little fine GRAVEL.							
75	11B			6/11/15		CL	LEAN CLAY with SAND; medium stiff, brown and orange brown, dry; little fine to medium grained SAND; low to medium plasticity.							
80				8/12/30			SANDY CLAY; very stiff, brown and reddish brown, slightly moist; fine to medium grained SAND; low to medium plasticity.							
	E80													
85				12/22/30		SM	SILTY SAND with GRAVEL; very dense, brown and reddish brown, moist; fine to medium grained SAND; little fine to coarse GRAVEL.							
						SW	WELL-GRADED SAND with GRAVEL; very dense, brown and tan with orange, moist; fine to coarse grained SAND; some fine to coarse GRAVEL.							
90				21/30/45										

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
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GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-6	Date(s) Drilled: 6/2/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 5962 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01778, -118.14427		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~170'	Page 4 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Type	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90				21/30/45		SW								
95	12B			5/11/30		CH	FAT CLAY with SAND; hard, brown, dry; little fine to medium grained SAND; high plasticity.							
100				12/50 per 6"		SM	SILTY SAND; very dense, brown, dry; fine to medium grained SAND.							
						ML	SANDY SILT; hard, reddish brown, moist; fine to medium grained SAND; no plasticity.							
105							End of boring at 101', boring terminated at planned depth, no groundwater was encountered.							
110														
115														
120														

LEGEND

California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
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CADD PROJECT FILE NAME

CHECKER

DESIGNED: C. RAVE

DRAFTER: C. RAVÉ

DATE	BY	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS

REVISIONS

PROJECT ENGINEER — DATE 03/27/18

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

LOG OF BORINGS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 21 OF 26 27

AS BUILT DRAWINGS

PLAN DR

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes)/ No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-7	Date(s) Drilled: 6/08/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~186'	Page 1 of 4		
Boring Location: In front of 6421 Southside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01040, -118.13504	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Depth to Groundwater: N/A
Depth to Bedrock: N/A			

DEPTH (FEET)	Sample No.	Type of Sample: Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0					ML	SILT; soft, reddish brown, dry; no plasticity; turf grass on the surface.							
5	1R		8/20/29										
	2B				CH	hard, slightly moist; little medium to coarse grained SAND; traces of fine GRAVEL.							DS
10	3R		6/8/18			FAT CLAY with SAND; stiff, brown, moist; little fine to medium grained SAND; medium to high plasticity.							
					CL	LEAN CLAY; medium stiff, reddish brown, moist; medium plasticity.							
15	4R		5/9/14										CO
					CH	FAT CLAY; very stiff, reddish brown, moist; high plasticity.							
20	5R		4/13/26										
	E20				CL	LEAN CLAY; stiff, brown, moist; low to medium plasticity.							
25	6R		6/11/22										
					CH	FAT CLAY with SAND; hard, reddish brown, slightly moist; little medium to coarse grained SAND; traces of fine GRAVEL; high plasticity.							
30	7R		11/28/43										

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes)/ No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-7	Date(s) Drilled: 6/8/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~186'	Page 2 of 4		
Boring Location: In front of 6421 Southside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01040, -118.13504	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Depth to Groundwater: N/A
Depth to Bedrock: N/A			

DEPTH (FEET)	Sample No.	Type of Sample: Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R		11/28/43		CH	SANDY FAT CLAY with GRAVEL; hard, reddish brown and orange brown, slightly moist; medium to coarse grained SAND; little fine GRAVEL; medium to high plasticity.							
35	8R		9/20/32										
					CL	SANDY LEAN CLAY; stiff, reddish brown, slightly moist; fine to coarse grained SAND; low to medium plasticity.							
40	9R		3/9/26										
	E40				SW	WELL-GRADED SAND with GRAVEL; very dense, tan and orange, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
45	10B		16/20/24										
					SM	SILTY SAND; very dense, brown, dry; fine to medium grained SAND.							
50	10B		4/9/13			SANDY SILT; medium stiff, reddish brown and orange brown, moist; fine to coarse grained SAND; no plasticity.							
					ML	stiff, reddish brown, slightly moist; fine to medium grained SAND; interbedded SANDY LEAN CLAY at 55'; reddish brown, moist, low to medium plasticity.							
55	11B		5/11/17										
					CL	SANDY LEAN CLAY with GRAVEL; stiff, reddish brown, moist; medium to coarse grained SAND; little fine GRAVEL; medium plasticity.							
60	E60		8/11/16										

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
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Project Location: Unincorporated East Los Angeles
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Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-7	Date(s) Drilled: 6/8/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~186'	Page 3 of 4		
Boring Location: In front of 6421 Southside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01040, -118.13504	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Depth to Groundwater: N/A
Depth to Bedrock: N/A			

DEPTH (FEET)	Sample No.	Type of Sample: Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60	11B		8/11/18		CL								
	E60												
65			10/18/32		SM	SILTY SAND; very dense, reddish brown, dry; fine to medium grained SAND.							
					SC	CLAYEY SAND; very stiff, brown, moist; medium to coarse grained SAND.							
70	12B		8/11/18										
					SW	WELL-GRADED SAND with GRAVEL; very dense, tan, dry; fine to coarse grained SAND; little fine GRAVEL.							
75			12/21/27										
						tan and orange; some fine to coarse angular GRAVEL.							
80			14/20/50 per 6"										
	E80												
85	13B		19/48/50 per 5"			tan; little fine GRAVEL.							
					SC	CLAYEY SAND with GRAVEL; very stiff, reddish brown, dry; fine to coarse grained SAND; little fine to coarse GRAVEL; moderate cementation.							
90	14B		22/28/48		SW								

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Boring No.: DW-7	Date(s) Drilled: 6/8/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~186'	Page 4 of 4		
Boring Location: In front of 6421 Southside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01040, -118.13504	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Depth to Groundwater: N/A
Depth to Bedrock: N/A			

DEPTH (FEET)	Sample No.	Type of Sample: Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90	14B		22/28/48		SW	WELL-GRADED SAND with GRAVEL; very dense, grayish brown, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
						grayish tan; some fine GRAVEL.							
95			39/50 per 5"			interbedded CLAYEY SAND between 94' to 95'; brown, moist.							
					SM	SILTY SAND; very dense, brown, moist; fine to coarse grained SAND.							
100	15B		13/21/21			End of boring at 101'; boring terminated at planned depth, no groundwater was encountered.							
105													
110													
115													
120													

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes)/ No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-8	Date(s) Drilled: 6/9/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~186'	Page 1 of 4		
Boring Location: In front of 6450 Southside Dr.	Drilled by: GREGG Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01021, -118.13403	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Depth to Groundwater: N/A
Depth to Bedrock: N/A			

DEPTH (FEET)	Sample No.	Type of Sample: Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0					ML	SILT; soft, reddish brown, dry; traces of medium to coarse grained SAND; no plasticity; turf grass on the surface. intervals of fine to coarse grained SAND between 0' to 40'.							
5	1R		10/14/25		CH	FAT CLAY with SAND; hard, brown, dry; some medium to coarse grained SAND; traces of fine to coarse GRAVEL; high plasticity.							
	2B				CL	SANDY LEAN CLAY with GRAVEL; hard, brown, moist; medium to coarse grained SAND; little fine GRAVEL; low to medium plasticity.							
10	3R		7/20/30										
						LEAN CLAY with SAND and interbedded SANDY SILT; stiff, brown, moist; some fine to medium grained SAND; (SANDY SILT, reddish brown, moist); medium plasticity.							
15	4R		8/10/15										
					CH	FAT CLAY with SAND; hard, reddish brown, moist; little fine to coarse grained SAND; high plasticity.							
20	5R		9/17/33										
	E20					SANDY FAT CLAY with GRAVEL; hard, reddish brown, dry; medium to coarse grained SAND; little fine GRAVEL; high plasticity.							
25	6R		6/22/50 per 5"										
					CL	SANDY LEAN CLAY; very stiff, reddish brown, moist; fine to medium grained SAND; low plasticity.							
30	7R		7/12/21										

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes)/ No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-8	Date(s) Drilled: 6/9/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~186'	Page 2 of 4		
Boring Location: In front of 6450 Southside Dr.	Drilled by: GREGG Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01021, -118.13403	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Depth to Groundwater: N/A
Depth to Bedrock: N/A			

DEPTH (FEET)	Sample No.	Type of Sample: Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R		7/12/21		CH								
35	8R		9/16/33		ML	SANDY SILT; hard, light brown and orange brown, moist; fine grained SAND; no plasticity.							
					CL	SANDY LEAN CLAY with GRAVEL; hard, reddish brown and orange brown, moist; fine to medium grained SAND; little fine GRAVEL; low plasticity.							
40	9R		12/22/38										
	E40				SW	WELL-GRADED SAND with GRAVEL; very dense, tan and orange, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
45	10B		19/27/27										
50			21/30/37										
					CL	SANDY LEAN CLAY; hard, orange brown, moist; fine to medium grained SAND; low plasticity. LEAN CLAY; medium stiff, reddish brown, moist; traces of medium to coarse grained SAND; medium plasticity.							
55	11B		5/11/14										
60	E60		7/16/14			stiff, brown and reddish brown; some medium to coarse grained SAND; traces of fine GRAVEL; low plasticity.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes)/ No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-8	Date(s) Drilled: 6/9/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~186'	Page 3 of 4		
Boring Location: In front of 6450 Southside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01021, -118.13403	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Depth to Groundwater: N/A
Depth to Bedrock: N/A			

DEPTH (FEET)	Sample No.	Type of Sample: Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60	11B		7/16/18		CL								
	E60												
65			4/21/25		ML	SILT with SAND; hard, orange brown, moist; little fine grained SAND; no plasticity.							
					SW	WELL-GRADED SAND with GRAVEL; very dense, gray and tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
70			17/17/26										
75	12B		16/22/30			little fine GRAVEL.							
80			14/23/34			very dense, tan and orange, dry; some fine to coarse angular GRAVEL.							
	E80				SM	SILTY SAND; very dense, tan and brown, moist; fine to medium grained SAND.							
85	13B		22/42/46										
90			23/48/50 per 5"		SW								

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes)/ No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-8	Date(s) Drilled: 6/9/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Ground Elevation: ~186'	Page 4 of 4		
Boring Location: In front of 6450 Southside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Depth to Invert: 100 ft.			
Latitude & Longitude: 34.01021, -118.13403	Drilling Method: Hollow Stem Auger	Drop Height: 30 in.	Depth to Groundwater: N/A
Depth to Bedrock: N/A			

DEPTH (FEET)	Sample No.	Type of Sample: Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90	14B		23/48/50 per 5"		SW	WELL-GRADED SAND with GRAVEL; very dense, tan with gray and orange, dry; fine to coarse grained SAND; some fine to coarse angular GRAVEL.							
95			41/48/50 per 2"			very dense, gray and tan, dry; some fine to coarse angular GRAVEL. ~1' SILT lense at 94'; reddish brown, moist, no plasticity.							
					SM	SILTY SAND; dense, light brown, moist; fine to medium grained SAND.							
100	14B		11/17/20		CL	LEAN CLAY; very stiff, orange brown, moist; medium plasticity End of boring at 101'; boring terminated at planned depth, no groundwater was encountered.							
105													
110													
115													
120													

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

CADD PROJECT FILE NAME

DESIGNED: C. RAVE
CHECKER
DRAFTER: C. RAVÉ

DATE	BY	REVISIONS
04/28/22	MK	AS BUILT REVISIONS

PROJECT ENGINEER — DATE 03/27/18

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

LOG OF BORINGS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 22 OF 26 27

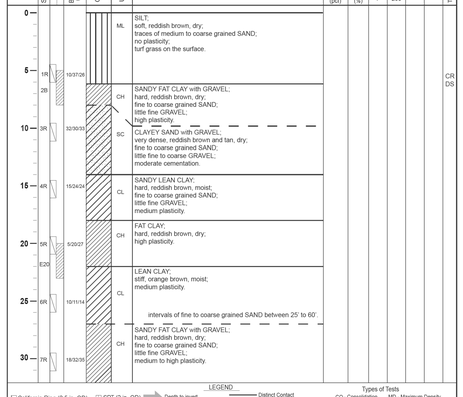
AS BUILT DRAWINGS

PLAN DR

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-9	Date(s) Drilled: 6/13/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6521 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01014, -118.13300		Drilling Method: Hollow Stem Auger	Drop Height: 30 in.
Ground Elevation: ~188'	Page 1 of 4	Total Depth: 101'	Depth to Invert: 100 ft.
Depth to Groundwater: N/A	Depth to Bedrock: N/A	Equipment: CME-95	



LEGEND
California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
MD - Maximum Density
PE - Permeability
SA - Sieve Analysis
SE - Sand Equivalence
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Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
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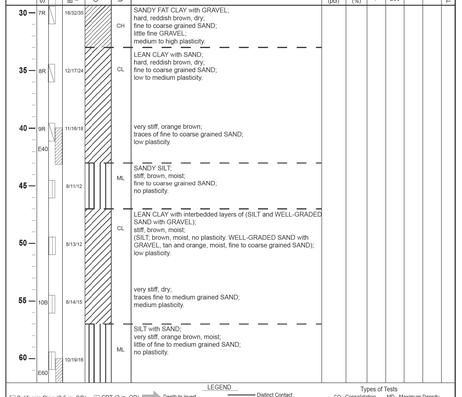
Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-9	Date(s) Drilled: 6/13/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6521 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01014, -118.13300		Drilling Method: Hollow Stem Auger	Drop Height: 30 in.
Ground Elevation: ~188'	Page 2 of 4	Total Depth: 101'	Depth to Invert: 100 ft.
Depth to Groundwater: N/A	Depth to Bedrock: N/A	Equipment: CME-95	



LEGEND
California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
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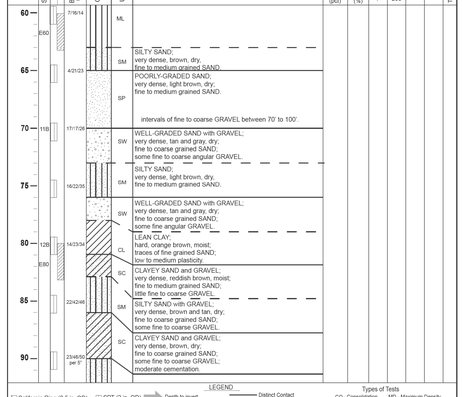
Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-9	Date(s) Drilled: 6/13/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6521 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01014, -118.13300		Drilling Method: Hollow Stem Auger	Drop Height: 30 in.
Ground Elevation: ~188'	Page 3 of 4	Total Depth: 101'	Depth to Invert: 100 ft.
Depth to Groundwater: N/A	Depth to Bedrock: N/A	Equipment: CME-95	



LEGEND
California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
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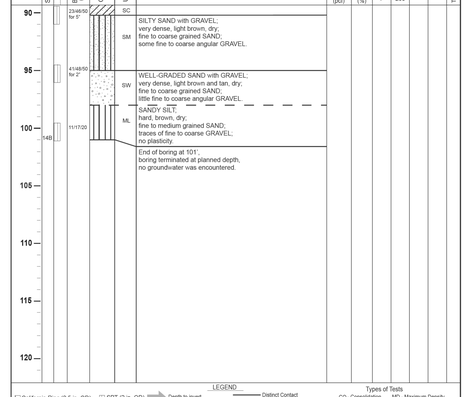
Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-9	Date(s) Drilled: 6/13/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6521 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01014, -118.13300		Drilling Method: Hollow Stem Auger	Drop Height: 30 in.
Ground Elevation: ~188'	Page 4 of 4	Total Depth: 101'	Depth to Invert: 100 ft.
Depth to Groundwater: N/A	Depth to Bedrock: N/A	Equipment: CME-95	



LEGEND
California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
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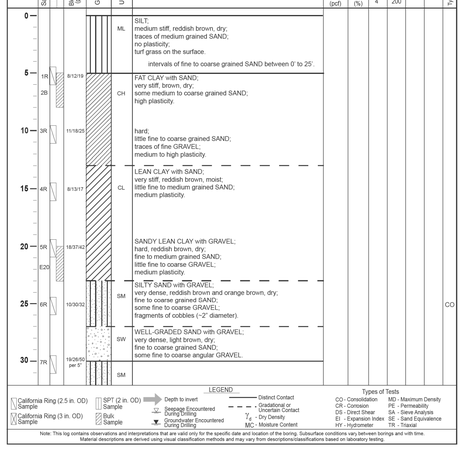
Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-10	Date(s) Drilled: 6/14/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6551 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.00998, -118.13179		Drilling Method: Hollow Stem Auger	Drop Height: 30 in.
Ground Elevation: ~190'	Page 1 of 4	Total Depth: 101'	Depth to Invert: 100 ft.
Depth to Groundwater: N/A	Depth to Bedrock: N/A	Equipment: CME-95	



LEGEND
California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
Gradational or Uncertain Contact
γ_d - Dry Density
MC - Moisture Content

Types of Tests
CO - Consolidation
CR - Corrosion
DS - Direct Shear
EI - Expansion Index
HY - Hydrometer
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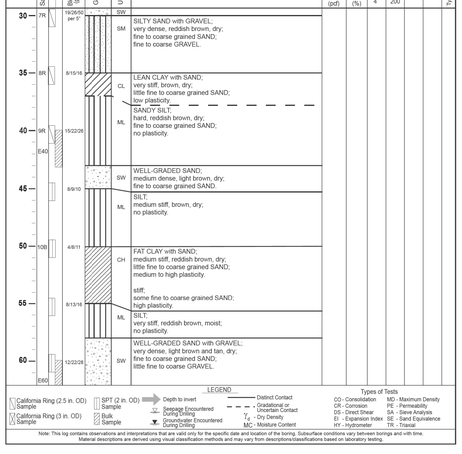
Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-10	Date(s) Drilled: 6/14/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6551 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.00998, -118.13179		Drilling Method: Hollow Stem Auger	Drop Height: 30 in.
Ground Elevation: ~190'	Page 2 of 4	Total Depth: 101'	Depth to Invert: 100 ft.
Depth to Groundwater: N/A	Depth to Bedrock: N/A	Equipment: CME-95	



LEGEND
California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
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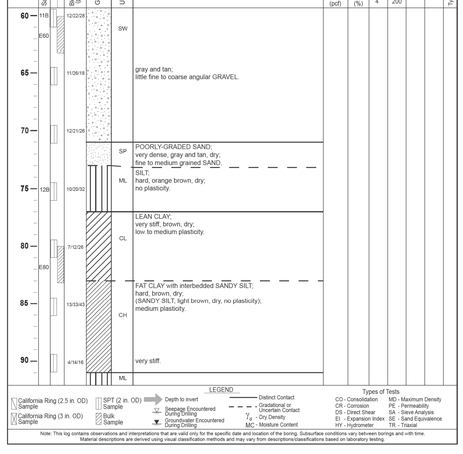
Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-10	Date(s) Drilled: 6/14/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6551 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.00998, -118.13179		Drilling Method: Hollow Stem Auger	Drop Height: 30 in.
Ground Elevation: ~190'	Page 3 of 4	Total Depth: 101'	Depth to Invert: 100 ft.
Depth to Groundwater: N/A	Depth to Bedrock: N/A	Equipment: CME-95	



LEGEND
California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
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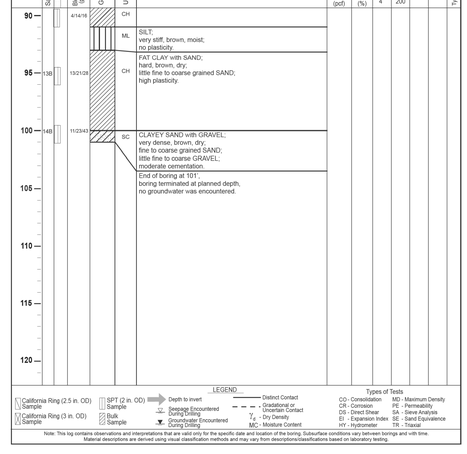
Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-10	Date(s) Drilled: 6/14/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6551 Southside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.00998, -118.13179		Drilling Method: Hollow Stem Auger	Drop Height: 30 in.
Ground Elevation: ~190'	Page 4 of 4	Total Depth: 101'	Depth to Invert: 100 ft.
Depth to Groundwater: N/A	Depth to Bedrock: N/A	Equipment: CME-95	



LEGEND
California Ring (2.5 in. OD) Sample
California Ring (3 in. OD) Sample
SPT (2 in. OD) Sample
Bulk Sample
Depth to Invert
Seepage Encountered During Drilling
Groundwater Encountered During Drilling
Distinct Contact
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γ_d - Dry Density
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Types of Tests
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Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

CADD PROJECT FILE NAME

DESIGNED: C. RAVE
CHECKER
DRAFTER: C. RAVÉ

DATE	BY	REVISIONS
04/28/22	■	AS BUILT REVISIONS

PROFESSIONAL ENGINEER — No. 85820 — CIVIL — STATE OF CALIFORNIA
03/27/18
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

LOG OF BORINGS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 23 OF 26 27

AS BUILT DRAWINGS

PLAN DR

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-11	Date(s) Drilled: 6/16/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6518 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01322, -118.13125		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~198'	Page 1 of 4		
Total Depth: 101'	Depth to Invert: 101 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0					ML	SILT; soft, reddish brown, dry; little medium to coarse grained SAND; no plasticity; turf grass on the surface.							
						intervals of fine to coarse grained SAND and fine to coarse GRAVEL between 5' to 35'.							
5	1R		13/20/21		CH	FAT CLAY with SAND and GRAVEL; hard, brown, dry; little medium to coarse grained SAND; little fine GRAVEL; medium to high plasticity.							DS
	2R												
10	3R		7/9/11		ML	SILT; medium stiff, reddish brown, moist; traces of fine to medium grained SAND; traces of coarse GRAVEL; little to no plasticity.							CO DS
15	4R		5/17/30			hard; traces of medium to coarse grained SAND; traces of fine GRAVEL.							
	5R		10/37/50 per 5"		CH	SANDY FAT CLAY with GRAVEL; hard, brown, dry; medium to coarse grained SAND; little fine to coarse GRAVEL; high plasticity.							
20	E20												
25	6R		6/12/14		ML	SILT; stiff, reddish brown, moist; traces of fine to medium grained SAND; no plasticity.							CO
30	7R		10/18/22			SANDY SILT with GRAVEL; hard, brown, dry; fine to medium grained SAND; little fine GRAVEL; no plasticity.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-11	Date(s) Drilled: 6/16/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6551 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01322, -118.13125		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~198'	Page 2 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R		10/18/22		ML	SILT with SAND; hard, reddish brown, dry; some fine to coarse grained SAND; traces of fine GRAVEL; no plasticity.							
35	8R		14/30/41		SM	SILTY SAND; very dense, brown, dry; fine to coarse grained SAND.							
40	9R		12/22/41		SW	WELL-GRADED SAND with GRAVEL; very dense, tan and brown, dry; fine to coarse grained SAND; little fine to coarse angular GRAVEL.							CO
	E40												
45			5/10/12		CL	LEAN CLAY with SAND; medium stiff, reddish brown, dry; some fine to coarse grained SAND; low plasticity.							
50			8/9/17		SC	CLAYEY SAND with GRAVEL; medium dense, tan and brown, moist; fine to coarse grained SAND; Little fine to coarse GRAVEL.							
55	10R		9/8/8		CL	SANDY LEAN CLAY; medium stiff, reddish brown, moist; low plasticity.							
60	E60		6/8/10		ML	SILT; medium stiff, orange brown, moist; low plasticity.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-11	Date(s) Drilled: 6/16/17	Logged by: JJU	Boring Diameter: 8 in.
Boring Location: In front of 6551 Northside Dr.		Drilled by: GREGG Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01322, -118.13125		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~198'	Page 3 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60			6/8/10		ML	SANDY SILT with GRAVEL; medium stiff, reddish and orange brown, moist; fine to medium grained SAND; little fine GRAVEL; low plasticity.							
	E60												
65			6/11/15		SM	SILTY SAND; medium dense, light brown, dry; fine to medium grained SAND.							
70			8/13/12		CL	CLAY with interbedded SANDY SILT; stiff, brown, moist; (SANDY SILT, orange brown, moist, fine to coarse grained SAND, no plasticity); low to medium plasticity.							
75			19/20/28		SM	SILTY SAND with GRAVEL; very dense, tan and orange brown, dry; fine to medium grained SAND; some fine to coarse GRAVEL.							
80	11R		10/19/22			light brown.							
	E80												
85	12R		15/28/29										
90			14/17/19		CL	LEAN CLAY with WELL-GRADED SAND lens; very stiff, brown, moist; (WELL-GRADED SAND 2" lens, tan, fine to coarse grained SAND); low to medium plasticity.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-11	Date(s) Drilled: 6/16/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6551 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01322, -118.13125		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~198'	Page 4 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90			14/17/19		CL								
95	13B		24/39/44		CH	FAT CLAY; hard, brown, dry; traces of fine to coarse grained SAND; high plasticity.							
100	14B		8/18/21			SANDY FAT CLAY; hard, brown, dry; fine to coarse grained SAND; traces of fine GRAVEL; medium to high plasticity.							
						End of boring at 101'; boring terminated at planned depth, no groundwater was encountered.							
105													
110													
115													
120													

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-12	Date(s) Drilled: 6/19/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6518 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01349, -118.13248		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~196'	Page 1 of 4		
Total Depth: 101'	Depth to Invert: 101 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0					ML	SILT with SAND; soft, reddish brown, dry; little medium to coarse grained SAND; no plasticity; turf grass on the surface.							
5	1R		6/11/26		CL	LEAN CLAY with SAND; soft, brown, dry; little medium to coarse grained SAND; low plasticity.							CR SE
	2R				CH	SANDY FAT CLAY with GRAVEL; very stiff, brown, dry; fine to coarse grained SAND; little fine GRAVEL; high plasticity.							
10	3R		6/14/28		SC	CLAYEY SAND with GRAVEL; very dense, brown, moist; fine to coarse grained SAND; little fine GRAVEL; moderate cementation.							
15	4R		4/11/22			dense, reddish brown. intervals of fine to coarse grained SAND and fine to coarse GRAVEL between 0' to 100'.							CO
	5R		9/11/15		CL	LEAN CLAY; stiff, reddish brown, moist; traces of fine to medium grained SAND; low to medium plasticity.							
20	E20												
25	6R		14/25/37			SANDY LEAN CLAY with GRAVEL; hard, brown and orange, moist; fine to coarse grained SAND; little fine GRAVEL; medium plasticity.							
30	7R		7/18/25			increase of fine to coarse grained SAND at 30'.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-12	Date(s) Drilled: 6/19/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6518 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01349, -118.13248		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~196'	Page 2 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R		7/18/25		CL								
35	8R		8/22/27		SC	CLAYEY SAND with GRAVEL; very dense, brown, moist; fine to coarse grained SAND; little fine to coarse GRAVEL.							
40	9R		15/30/24		SM	SILTY SAND with GRAVEL; very dense, orange brown, moist; fine to coarse grained SAND; little fine to coarse GRAVEL.							CO
	E40												
45			10/21/21		SP	POORLY-GRADED SAND with GRAVEL; dense, tan and orange, dry; fine to medium grained SAND; traces of coarse GRAVEL.							
50	10R		6/10/11		SC	CLAYEY SAND with GRAVEL; medium dense, reddish brown, moist; fine to coarse grained SAND; some fine to coarse GRAVEL.							
55			12/20/20		SW	WELL-GRADED SAND with GRAVEL; dense, orange brown, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.							
60	E60		9/14/17		SM	SILTY SAND with GRAVEL; dense, brown, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-12	Date(s) Drilled: 6/19/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6518 Northside Dr.		Drilled by: GREGG Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01349, -118.13248		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~196'	Page 3 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60			9/14/17		SM	some fine to coarse GRAVEL.							
	E60												
65			12/18/26		ML	SILT with GRAVEL; hard, brown, dry; little fine to coarse GRAVEL; no plasticity.							
70			8/15/23		SW	WELL-GRADED SAND; dense, gray and tan, dry; fine to coarse grained SAND.							
75			9/26/23		SM	SILTY SAND with GRAVEL; very dense, brown, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.							
80	11B		20+/50 per 5"										
	E80												
85			16/21/32		ML	SILT with interbedded POORLY-GRADED SAND; hard, brown, dry; (POORLY-GRADED SAND, light brown, dry, fine to medium grained SAND); no plasticity.							
90			17/27/40		SM	SILTY SAND; very dense, grayish brown, dry; fine to coarse grained SAND; traces fine to coarse GRAVEL.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-12	Date(s) Drilled: 6/19/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6518 Northside Dr.		Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.
Latitude & Longitude: 34.01349, -118.13248		Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.

Ground Elevation: ~196'	Page 4 of 4		
Total Depth: 101'	Depth to Invert: 100 ft.		
Depth to Groundwater: N/A	Depth to Bedrock: N/A		

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90	12B		17/27/40		SM								
95	13B		14/32/34		SC	CLAYEY SAND; very dense, reddish brown, moist; fine to coarse grained SAND; moderate cementation.							
100	14B		7/16/24			dense, brown, dry; little fine to coarse GRAVEL.							
						End of boring at 101'; boring terminated at planned depth, no groundwater was encountered.							
105													
110													
115													
120													

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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CADD PROJECT FILE NAME

CHECKER

DESIGNER: C. RAVE

DRAFTER: C. RAVÉ

DATE	BY	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS

REVISIONS

PROJECT ENGINEER — DATE 03/27/18

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

LOG OF BORINGS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 24 OF 26 27

AS BUILT DRAWINGS

PLAN DR

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-13	Date(s) Drilled: 6/21/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6421 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Latitude & Longitude: 34.01358, -118.13358	Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.	Depth to Groundwater: N/A

Ground Elevation: ~194' — Page 1 of 4 — Depth to Invert: 100 ft. — Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	Lab-in-situ γ_d (pcf)	Lab-in-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0					ML	SILT; soft, reddish brown, dry; little fine to coarse grained SAND; no plasticity; turf grass on the surface.							
5	1R		6/10/17		CL	LEAN CLAY and SAND; soft, reddish brown, dry; little fine to coarse grained SAND; low plasticity.							
	2R					intervals of fine to coarse grained SAND between 0' to 100'.							
10	3R		7/13/18			stiff, moist; some fine to medium grained SAND.							
					SP	POORLY-GRADED SAND; dense, tan and orange, dry; fine to medium grained SAND; traces of fine to coarse GRAVEL.							CO
15	4R		8/14/17		CH	FAT CLAY; very stiff, reddish brown, dry; traces of medium to coarse grained SAND; high plasticity.							
						intervals of fine to coarse GRAVEL between 10' to 90'.							
20	5R		8/17/28			hard; some medium to coarse grained SAND; little coarse GRAVEL.							
	E20												
25	6R		24/29/28		SC	CLAYEY SAND with GRAVEL; very dense, orange brown, dry; fine to coarse grained SAND; some fine to coarse GRAVEL; moderate cementation.							
30	7R		8/9/10		ML	SILT with SAND; medium stiff, reddish brown, moist; some medium to coarse grained SAND; no plasticity.							CO

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-13	Date(s) Drilled: 6/21/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6444 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Latitude & Longitude: 34.01358, -118.13358	Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.	Depth to Groundwater: N/A

Ground Elevation: ~194' — Page 2 of 4 — Depth to Invert: 100 ft. — Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	Lab-in-situ γ_d (pcf)	Lab-in-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R		6/9/10		ML								
35	8R		20/35/42		SW	WELL-GRADED SAND with GRAVEL; very dense, tan and orange, dry; fine to coarse grained SAND; some fine to coarse GRAVEL.							
					SM	SILTY SAND with GRAVEL; very dense, light brown, dry; fine to medium grained SAND; little fine to coarse GRAVEL.							
40	9R		10/18/37										
	E40												CO
45	10R		17/26/50 per 5"		SW	WELL-GRADED SAND with GRAVEL; very dense, gray and orange brown, dry; fine to coarse grained SAND; some fine to coarse angular GRAVEL.							
50	11R		15/16/17		ML	SILT with SAND; very stiff, light brown, dry; little fine to coarse grained SAND; low plasticity.							
55	12R		9/16/19		CL	LEAN CLAY with SAND; very stiff, light brown, dry; little fine to coarse grained SAND; low plasticity.							
60	13R		13/16/48		SM	SANDY SILT with GRAVEL; hard, brown, dry; fine to medium grained SAND; little coarse angular GRAVEL; no plasticity.							
	E60												

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-13	Date(s) Drilled: 6/21/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6444 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Latitude & Longitude: 34.01358, -118.13358	Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.	Depth to Groundwater: N/A

Ground Elevation: ~194' — Page 3 of 4 — Depth to Invert: 100 ft. — Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	Lab-in-situ γ_d (pcf)	Lab-in-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60	10R		13/18/48		ML								
	E60				SM	SILTY SAND with GRAVEL; very dense, gray and light brown, dry; fine to coarse grained SAND; some fine to coarse angular GRAVEL; moderate cementation.							
65			35/50 per 5"										
					SW	WELL-GRADED SAND with GRAVEL; very dense, gray and tan, dry; medium to coarse grained SAND; some fine to coarse GRAVEL; moderate cementation.							
70			31/21/18		ML	SILT; hard, brown, moist; no plasticity.							
75			19/19/19			very stiff, orange brown; (WELL-GRADED SAND with GRAVEL lens (~8"), tan and orange, dry, fine to coarse grained SAND, little fine GRAVEL).							
80	11B		7/13/19			little fine to medium grained SAND.							
	E80												
85			11/ 8/30			SANDY SILT; very stiff, light brown, dry; fine to medium grained SAND; no plasticity.							
90			10/42/42			hard, brown, moist; (WELL-GRADED SAND with GRAVEL lens (~6"), tan and orange, dry, fine to coarse grained SAND, little fine GRAVEL).							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-13	Date(s) Drilled: 6/21/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6444 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Latitude & Longitude: 34.01358, -118.13358	Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.	Depth to Groundwater: N/A

Ground Elevation: ~194' — Page 4 of 4 — Depth to Invert: 100 ft. — Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	Lab-in-situ γ_d (pcf)	Lab-in-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90			10/42/42		ML	SILT with interbedded WELL-GRADED SAND; hard, orange brown, moist; (WELL-GRADED SAND, gray and tan, dry, fine to coarse grained SAND); no plasticity.							
95			13/39/42										
100	12B		17/36/44			brown; (WELL-GRADED SAND, tan and orange, moist, fine to coarse grained SAND).							
105						End of boring at 101', boring terminated at planned depth, no groundwater was encountered.							
110													
115													
120													

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-14	Date(s) Drilled: 6/23/17	Logged by: JJU	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6421 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Latitude & Longitude: 34.01381, -118.13451	Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.	Depth to Groundwater: N/A

Ground Elevation: ~194' — Page 1 of 4 — Depth to Invert: 100 ft. — Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	Lab-in-situ γ_d (pcf)	Lab-in-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0					ML	SILT; soft, reddish brown, dry; no plasticity; turf grass on the surface.							
						intervals of fine to coarse grained SAND between 5' to 100'; intervals of fine to coarse GRAVEL between 10' to 95'.							
5	1R		9/12/14		CL	LEAN CLAY with SAND; stiff, brown, dry; little fine to coarse SAND; low plasticity.							
	2R				ML	SANDY SILT; medium stiff, brown, moist; fine to coarse grained SAND; no plasticity.							
10	3R		6/10/11		SM	SILTY SAND with GRAVEL; medium dense, reddish brown, dry; fine to coarse grained SAND; little fine GRAVEL.							CO
					ML	SANDY SILT with GRAVEL; medium stiff, reddish brown, moist; fine to medium grained SAND; little fine GRAVEL; little to no plasticity.							
15	4R		6/9/9										
					SM	SILTY SAND with GRAVEL; very dense, reddish and orange brown, moist; fine to coarse grained SAND; some fine to coarse GRAVEL; fragments of COBBLES (~2" to 4" diameter).							CO
20	5R		17/26/22										
	E20					intervals of COBBLES between 15' to 35'.							
25	6R		28/30/50 per 5"			increase of fine to coarse GRAVEL.							
30	7R		28/50 per 2"			little fine GRAVEL.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-14	Date(s) Drilled: 6/23/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6421 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Latitude & Longitude: 34.01381, -118.13451	Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.	Depth to Groundwater: N/A

Ground Elevation: ~194' — Page 2 of 4 — Depth to Invert: 100 ft. — Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	Lab-in-situ γ_d (pcf)	Lab-in-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	7R		28/50 for 2"		SM								
35	8R		28/45/43		ML	SILT with SAND and GRAVEL; hard, reddish brown, dry; little fine to medium grained SAND; little coarse angular GRAVEL; no plasticity.							
40	9R		12/16/24			SANDY SILT; hard, brown, moist; fine to medium grained SAND; no plasticity.							
	E40												
45	10R		11/23/35		SM	SILTY SAND; dense, light brown, dry; fine to medium grained SAND.							
50	11R		21/43/50 per 4"		SW	WELL-GRADED SAND with GRAVEL; very dense, gray and orange brown, moist; fine to coarse grained SAND; some fine to coarse GRAVEL.							
55	12R		8/14/18		SC	CLAYEY SAND with GRAVEL; dense, gray and reddish brown, moist; fine to coarse grained SAND; little fine to coarse angular GRAVEL.							
60	13R		20/23/22		SP	POORLY-GRADED SAND with GRAVEL; dense, grayish brown and tan, dry; fine to medium grained SAND; little fine to coarse GRAVEL; fragments of COBBLES (~2" diameter).							
	E60					intervals of COBBLES between 55' to 75'.							

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-14	Date(s) Drilled: 6/23/17	Logged by: JJU	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6421 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Latitude & Longitude: 34.01381, -118.13451	Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.	Depth to Groundwater: N/A

Ground Elevation: ~194' — Page 3 of 4 — Depth to Invert: 100 ft. — Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	Lab-in-situ γ_d (pcf)	Lab-in-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
60	10B		20/33/22		SP								
	E60				SW	WELL-GRADED SAND with GRAVEL; very dense, gray and tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL; fragments of COBBLES (~2" diameter); moderate cementation.							
65			18/44/42										
70			40/50 per 6"			fragments of COBBLES (~3" to 4" diameter).							
75			17/36/50 per 4"			gray and orange brown.							
80			23/ 8/22			dense, tan and orange, moist; little fine to coarse angular GRAVEL; (SILT lens (~4"), brown, moist, little to no plasticity).							
	E80				SM	SILTY SAND; very dense, orange brown, moist; fine to medium grained SAND.							
85			32/50 per 5"		SW	WELL-GRADED SAND with GRAVEL; very dense, gray and tan, dry; fine to coarse grained SAND; some fine to coarse angular GRAVEL; moderate cementation.							
90			14/14/22		SM								

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815i10 — Monitoring Well Installed: (Yes) / No

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: DW-14	Date(s) Drilled: 6/23/17	Logged by: JJU, YG	Boring Diameter: 8 / 18 in.
Boring Location: In front of 6421 Northside Dr.	Drilled by: Gregg Drilling	Hammer Weight: 140 lbs.	Total Depth: 101'
Latitude & Longitude: 34.01381, -118.13451	Drilling Method: Hollow Stem Auger Equipment: CME-95	Drop Height: 30 in.	Depth to Groundwater: N/A

Ground Elevation: ~194' — Page 4 of 4 — Depth to Invert: 100 ft. — Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive / Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	Lab-in-situ γ_d (pcf)	Lab-in-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
90			14/14/22		SM	SILTY SAND with GRAVEL; very dense, orange brown, moist; fine to medium grained SAND; little fine to coarse GRAVEL.							
95			6/25/35		ML	SILT with interbedded SILTY SAND; hard, reddish brown, moist; (SILTY SAND; light brown and orange, fine to coarse grained SAND); no plasticity.							
100	12B		20/29/22			SILT with interbedded SANDY SILT; hard, orange brown, moist; (SANDY SILT, brown and tan, fine to medium grained SAND); no plasticity.							
105						End of boring at 101', boring terminated at planned depth, no groundwater was encountered.							
110													
115													
120													

LEGEND

California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests: CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
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CADD PROJECT FILE NAME

DESIGNED: C. RAVÉ
CHECKER
DRAFTER: C. RAVÉ

DATE	BY	REVISIONS
04/28/22	■	AS BUILT REVISIONS

PROFESSIONAL ENGINEER — No. 85820 — CIVIL — STATE OF CALIFORNIA
PROJECT ENGINEER — 03/27/18 — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

LOG OF BORINGS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 25 OF 26 27

AS BUILT DRAWINGS

PLAN DR

ELEV T
177.71
177.38
178.39
178.18
177.48
178.44
179.00
178.16
178.10
179.89
179.41
179.52
178.6
179.40
177.80

■ TABLE 1.1 (SH 4)
DRY WELLS
LINES A-1 AND A-2

ELEV T
166.26
167.85
167.64
168.23
166.03
168.02

■ TABLE 3.1 (SH 6)
DRY WELLS LINE B-1

ELEV T
191.69
190.31
189.50
190.64
191.03
190.24
191.63
190.44
192.41
191.43
192.53
191.31
192.82
193.60
192.67

■ TABLE 4.1 (SH 7)
DRY WELLS LINE C-1

ELEV T
181.22
182.27
182.85
183.09
183.10
183.70
183.82
184.60
186.44
186.29
187.10
185.46
185.44
185.44
185.38
188.15

■ TABLE 6.1 (SH 9)
DRY WELLS
LINE D-1

ELEV T
188.63
180.20
179.40

■ TABLE 8.1 (SH 11)
DRY WELLS LINES
E-1 AND F-1

ELEV T
189.13
188.91
190.33
190.27
190.62
192.32
189.53
190.33
192.20
192.16
191.68
192.98
191.78
190.84
192.35
193.34
194.14
194.61
181.54
181.55
182.51
182.24
182.92
185.13
183.84
183.34
185.23
185.58
186.06
186.28
185.63
185.87
186.06
185.78
188.68
188.37
188.04

■ TABLE 9.1 (SH 13)
DRY WELLS AND LATERAL
CONNECTOR PIPES,
LINES C-1 AND D-1

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815I10
Monitoring Well Installed: Yes (No)

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: B8 | Date(s) Drilled: 1/19/16 | Logged by: JJU | Boring Diameter: 10 in. | Ground Elevation: ~196' | Page 1 of 2
Boring Location: In front of 6465 E. Northside Drive, center grass median. | Drilled by: FMD | Hammer Weight: 140 lbs. | Total Depth: 50' | Depth to Invert: 10 ft.
Latitude & Longitude: 34.013659, -118.133144 | Drilling Method: Hollow Stem Auger | Equipment: CME | Drop Height: 30 in. | Depth to Groundwater: N/A | Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0						ML	SILT with SAND soft, reddish brown, dry; some medium to coarse grained SAND; organics at surface.							
5	1R			10/22/21		SW-SM	Well-graded SAND with SILT and GRAVEL dense, red-brown, moist; some non-plastic SILT; little fine to coarse GRAVEL; moderate cementation. Well permeability testing performed at 5'-10'.	115.6	8.7	100	26.7			DS SA
	2R									92.5	7.7			CR SA
10	3R			7/15/17		SC-SM	SILTY, CLAYEY SAND dense, red-brown, moist; fine to medium grained SAND; moderate cementation.	76.4	11.4	100	41.5			SA
	4R			10/20/23			traces of fine GRAVEL.	114.1	10.7	100	39.7			DS SA
15	5R									93.5	27.1	23	5	SA
20	6R			9/24/28		CL	CLAY with SAND very hard, red-brown, moist; traces of fine to medium grained SAND.	112.5	10.9	100	41.8	25	12	SA
	7R									99.8	63.4	31	17	SA
25	8R			7/27/48			little medium to coarse grained SAND.	121.8	12.4	100	70.0			
	9R						some coarse GRAVEL.							
30	10R			7/13/8			little coarse GRAVEL.	112.9	14.2	100	54.6	27	9	SA

LEGEND
California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to Invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815I10
Monitoring Well Installed: Yes (No)

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: B8 | Date(s) Drilled: 1/19/16 | Logged by: JJU | Boring Diameter: 10 in. | Ground Elevation: ~196' | Page 2 of 2
Boring Location: In front of 6465 E. Northside Drive, center grass median. | Drilled by: FMD | Hammer Weight: 140 lbs. | Total Depth: 50' | Depth to Invert: 10 ft.
Latitude & Longitude: 34.013659, -118.133144 | Drilling Method: Hollow Stem Auger | Equipment: CME | Drop Height: 30 in. | Depth to Groundwater: N/A | Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30							little coarse GRAVEL.							
35	11R			14/27/34		SC-SM	SILTY, CLAYEY SAND with GRAVEL very dense, orange-red and brown, moist; fine to medium grained SAND; some coarse GRAVEL; moderate cementation.	116.8	4.4	100	18.4			
	12R									93.0	29.7	28	11	SA
40	13R			15/20/31			very dense, red-brown, moist; little of medium grained SAND; traces of fine to coarse GRAVEL.	111.7	5.5	100	18.4			
	14R									95.6	27.1	26	10	SA
45	15R			13/20/42			very dense, orange-brown, moist; some fine grained SAND.	107.6	10.3	100	33.0			
	16R									100	41.1	26	11	SA
50	17R			12/23/ 50 per 5"			very dense, orange-red and brown, moist; some fine to coarse GRAVEL; strong cementation.	122.2	11.9	93.9	49.7			
55							Boring terminated at 50.5'. End of boring at planned depth. Groundwater or seepage not encountered. Backfilled with cuttings and bentonite.							
60														

LEGEND
California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to Invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815I10
Monitoring Well Installed: Yes (No)

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: B9 | Date(s) Drilled: 1/20/16 | Logged by: JJU | Boring Diameter: 10 in. | Ground Elevation: ~188' | Page 1 of 2
Boring Location: In front of 6502 E. Southside Drive, center grass median. | Drilled by: FMD | Hammer Weight: 140 lbs. | Total Depth: 50' | Depth to Invert: 10 ft.
Latitude & Longitude: 34.010089, -118.133589 | Drilling Method: Hollow Stem Auger | Equipment: CME | Drop Height: 30 in. | Depth to Groundwater: N/A | Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0						ML	SILT with SAND soft, red-brown, dry; traces of medium to coarse grained SAND; organics at surface.							
5	1R			12/25/37		SC-SM	SILTY, CLAYEY SAND and GRAVEL very dense, brown, moist; fine to medium grained SAND; traces of coarse GRAVEL; moderate cementation.	124.2	10.2					DS
	2R									92.0	29.4	23	8	CR SA
10	3R			9/17/26			red-brown, moist; some coarse GRAVEL.	116.0	15.3					DS
	4R			8/12/13			Well permeability testing performed at 12'-16'.	102.7	19.7					DS
15	5R					CL	CLAY with SAND very hard, red-brown, moist; little medium to coarse grained SAND.			99.5	72.9	35	19	SA
20	6R			6/17/30						100	91.2	32	16	SA
	7R									100	68.6	35	19	SA
25	8R			13/43/50 per 4.5"			SILTY, CLAYEY SAND with GRAVEL dense, red-brown, moist; fine to medium grained SAND; some coarse GRAVEL; moderately bedded with thin interbeds of FINE SAND, reddish-orange, dry.	124.2	7.4	81.6	27.5	27	12	SA
	9R					SC-SM				90.1	44.8	32	16	SA
30	10R			8/15/27				110.0	11.6	100	55.8			SA

LEGEND
California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to Invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815I10
Monitoring Well Installed: Yes (No)

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: B9 | Date(s) Drilled: 1/20/16 | Logged by: JJU | Boring Diameter: 10 in. | Ground Elevation: ~188' | Page 2 of 2
Boring Location: In front of 6502 E. Southside Drive, center grass median. | Drilled by: FMD | Hammer Weight: 140 lbs. | Total Depth: 50' | Depth to Invert: 10 ft.
Latitude & Longitude: 34.010089, -118.133589 | Drilling Method: Hollow Stem Auger | Equipment: CME | Drop Height: 30 in. | Depth to Groundwater: N/A | Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	11R			9/27/50 per 4"		SM	SILTY SAND very dense, reddish-brown, dry; fine to medium grained Sand; non-plastic fines; strong cementation.	104.5	13.7	99.1 100	40.9 58.3			SA SA
35	12R					CL	CLAY with SAND and GRAVEL very hard, yellowish-orange, dry; little fine to medium grained SAND; little of fine GRAVEL.			99.7	60.2	28	11	SA
40	13R			8/38/50 per 5.5"		ML	SILT with SAND and GRAVEL very hard, yellowish-orange, dry; little fine grained SAND; non-plastic fines; little of fine GRAVEL.	104.2	2.4	100	12.8			SA
	14R									99.4	90.7			SA
45	15R			8/18/49		SP	Poorly-graded SAND with FINES and GRAVEL very dense, yellowish-orange and brown, dry; some non-plastic fines; traces of fine GRAVEL. strong cementation.	104.3	17.6	100	59.3			SA
50	16R			18/39/50 per 6"			Boring terminated at 50.5'. End of boring at planned depth. Groundwater or seepage not encountered. Backfilled with cuttings and bentonite.	90.8	17.9	100	3.2			SA
55	17R													
60														

LEGEND
California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to Invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815I10
Monitoring Well Installed: Yes (No)

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

Boring No.: B10 | Date(s) Drilled: 4/25/16 | Logged by: JJU | Boring Diameter: 10 in. | Ground Elevation: ~195' | Page 1 of 2
Boring Location: In front of 6485 E. Northside Drive, center grass median. | Drilled by: FMD | Hammer Weight: 140 lbs. | Total Depth: 40' | Depth to Invert: 10 ft.
Latitude & Longitude: 34.013734, -118.133978 | Drilling Method: Hollow Stem Auger | Equipment: CME | Drop Height: 30 in. | Depth to Groundwater: N/A | Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
0						ML	SILT with SAND soft, brown, lightly moist; traces of medium to coarse grained SAND; organics at surface.							
5	1R			7/12/20			hard, red-brown, moist; little of fine to medium grained SAND.							
10	2R			3/8/25		ML-CL	CLAYEY SILT with SAND hard, red-brown, moist; little fine to medium grained SAND.							
	3R			2/11/15		SC	traces of fine GRAVEL. CLAYEY SAND with GRAVEL medium dense, red-brown, moist; medium to coarse grained SAND; some fine GRAVEL; moderate cementation.							
15	4R			2/12/33		CL-ML	SANDY SILTY CLAY very stiff, red-brown, moist; medium to coarse grained SAND.							
20	5R			24/50 per 6"		CL	SANDY CLAY hard, red-brown, moist; medium to coarse grained SAND. Well permeability testing performed at 23'-28'.							
25	6R			5/11/17		SW	WELL-GRADED SAND with CLAY and GRAVEL very dense, red-brown, moist; some medium plastic CLAY; some coarse GRAVEL; strong cementation.							
30						CL	SANDY CLAY with GRAVEL very stiff, red-brown, moist; traces of fine to coarse GRAVEL.							

LEGEND
California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to Invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
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Project: Montebello LMD
Project Location: Unincorporated East Los Angeles
PCA: F21815I10
Monitoring Well Installed: Yes (No)

GEOTECHNICAL LOG OF BORING AND SAMPLING
Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division

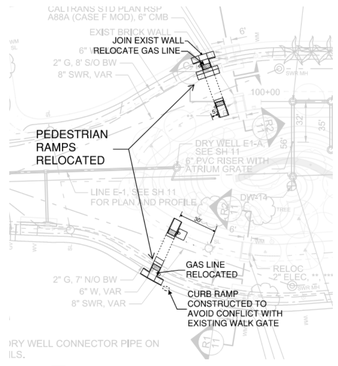
Boring No.: B10 | Date(s) Drilled: 4/25/16 | Logged by: JJU | Boring Diameter: 10 in. | Ground Elevation: ~195' | Page 2 of 2
Boring Location: In front of 6485 E. Northside Drive, center grass median. | Drilled by: FMD | Hammer Weight: 140 lbs. | Total Depth: 40' | Depth to Invert: 10 ft.
Latitude & Longitude: 34.013734, -118.133978 | Drilling Method: Hollow Stem Auger | Equipment: CME | Drop Height: 30 in. | Depth to Groundwater: N/A | Depth to Bedrock: N/A

DEPTH (FEET)	Sample No.	Drive	Bulk	Blow Count (per 6 in.)	Graphic Log	USCS	DESCRIPTION	LABORATORY TESTING: In-situ γ_d (pcf)	In-situ MC (%)	Sieve % Passing No. 4	Sieve % Passing No. 200	LL	PI	Type of Tests
30	6R			5/11/17		CL	SANDY CLAY with GRAVEL very stiff, red-brown, moist; traces of fine to coarse GRAVEL.							
35	7R			8/13/24		SC-SM	SILTY, CLAYEY SAND with GRAVEL dense, orange-red and brown, moist; medium to coarse grained SAND; some fine to coarse GRAVEL; moderate cementation.							
40	8R			9/24/31		SW	Well-graded SAND with CLAY and GRAVEL very dense, orange-red and brown, moist; some fine to coarse GRAVEL; moderate cementation.							
45							Boring terminated at 41'. End of boring at planned depth. Groundwater or seepage not encountered. Backfilled with cuttings and bentonite.							
50														
55														
60														

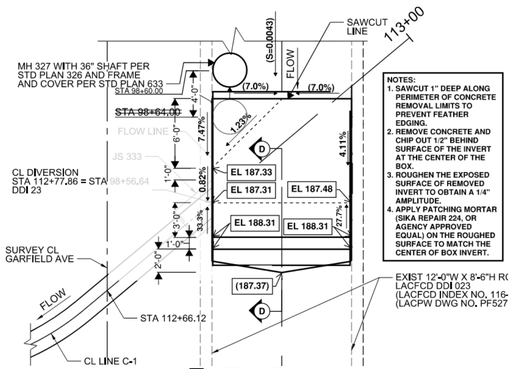
LEGEND
California Ring (2.5 in. OD) Sample; California Ring (3 in. OD) Sample; SPT (2 in. OD) Sample; Bulk Sample; Depth to Invert; Seepage Encountered During Drilling; Groundwater Encountered During Drilling; Distinct Contact; Gradational or Uncertain Contact; γ_d - Dry Density; MC - Moisture Content

Types of Tests
CO - Consolidation; CR - Corrosion; DS - Direct Shear; EI - Expansion Index; HY - Hydrometer; MD - Maximum Density; PE - Permeability; SA - Sieve Analysis; SE - Sand Equivalence; TR - Triaxial

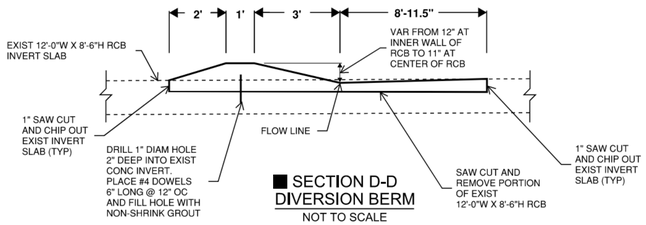
Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time.
Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.



■ DETAIL FOR PEDESTRIAN
RAMPS RELOCATION (SH 7)
NOT TO SCALE



■ DETAIL C.1
DIVERSION BERM (SH 8)
NOT TO SCALE



■ SECTION D-D
DIVERSION BERM
NOT TO SCALE

DATE	MK	DESCRIPTION
04/28/22	■	AS BUILT REVISIONS

REVISIONS

03/27/18
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

LOG OF BORINGS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 26 OF ~~26~~ 27

AS BUILT DRAWINGS

PLAN DR

CADD PROJECT FILE NAME
CHECKER
DESIGNER C. RAVE
DRAFTER C. RAVE

SITE SPECIFIC DATA			
PROJECT NUMBER	9597		
PROJECT NAME	EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE		
PROJECT LOCATION	LOS ANGELES, CA		
STRUCTURE ID	SOUTHSIDE DR AT COOLIDGE WAY FILTRATION UNIT		
TREATMENT REQUIRED			
WATER QUALITY FLOW RATE (CFS)	2.10		
FULL CAPTURE TRASH FLOW RATE (CFS)	N/A		
PEAK FLOW RATE (CFS)	2.10		
PEAK STORM DURATION (YEARS)	N/A		
PIPE & ELEVATION DATA			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	162.92	RCP	18"
OUTLET PIPE	162.92	RCP	18"
RIM ELEVATION	±171.00		
LOADING & SOIL DATA			
SURFACE LOADING	H-20 DIRECT		
FRAME & COVER	(2) #24"		
CORROSIVE SOIL CONDITIONS	N/A		
GROUNDWATER ELEVATION	N/A		
NOTES: Contractor to supply all grade rings.			

DSBB PERFORMANCE DATA	
TREATMENT FLOW RATE (CFS)	3.31
FULL CAPTURE TRASH FLOW RATE (CFS)	N/A
SETTLING AREA (SF)	24.0
LOADING RATE (GPM/SF)	61.90
SCREEN SYSTEM STORAGE CAPACITY (CF)	21.50
SEDIMENT STORAGE CAPACITY (CF)	71.52
80% TSS REMOVAL @ 150 MICRON	

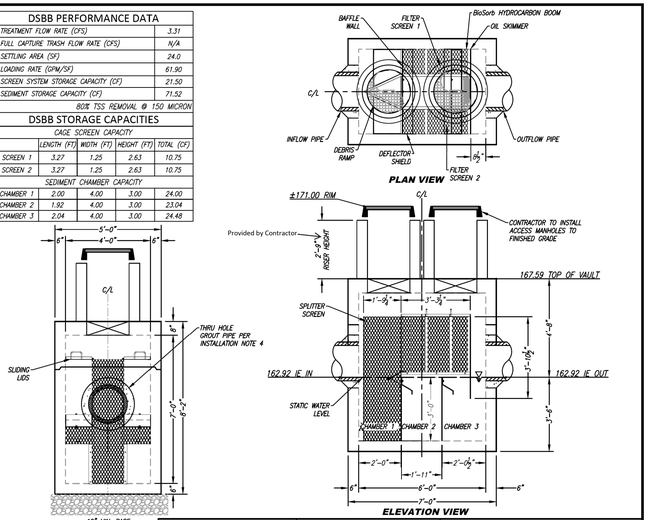
DSBB STORAGE CAPACITIES				
CAGE SCREEN CAPACITY				
	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	TOTAL (CF)
SCREEN 1	3.27	1.25	2.63	10.75
SCREEN 2	3.27	1.25	2.63	10.75
SEDIMENT CHAMBER CAPACITY				
CHAMBER 1	2.00	4.00	3.00	24.00
CHAMBER 2	1.92	4.00	3.00	23.04
CHAMBER 3	2.04	4.00	3.00	24.48

GENERAL NOTES

1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.
3. MANHOLES AND ALTERNATIVE HATCHES AVAILABLE UPON REQUEST.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE DEBRIS SEPARATING BAFFLE BOX UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. MANUFACTURER RECOMMENDS A 6"–12" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH.)
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATERTIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.



END VIEW

PLAN VIEW

ELEVATION VIEW

PROPRIETARY AND CONFIDENTIAL:
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Bio Clean — A Forterra Company

DSBB-4-6-84
DUAL STAGE HYDRODYNAMIC SEPARATOR
STANDARD DETAIL

SOUTHSIDE DR AT COOLIDGE WAY FILTRATION UNIT (DET IA, SH 14)
NO SCALE

SITE SPECIFIC DATA			
PROJECT NUMBER	9597		
PROJECT NAME	EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE		
PROJECT LOCATION	LOS ANGELES, CA		
STRUCTURE ID	MONTEBELLO PARKWAY FILTRATION UNIT		
TREATMENT REQUIRED			
WATER QUALITY FLOW RATE (CFS)	3.19		
FULL CAPTURE TRASH FLOW RATE (CFS)	N/A		
PEAK FLOW RATE (CFS)	5.95		
PEAK STORM DURATION (YEARS)	N/A		
PIPE & ELEVATION DATA			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	173.41	RCP	24"
OUTLET PIPE	173.41	RCP	24"
RIM ELEVATION	±182.60		
LOADING & SOIL DATA			
SURFACE LOADING	H-20 DIRECT		
FRAME & COVER	(2) #36"		
CORROSIVE SOIL CONDITIONS	N/A		
GROUNDWATER ELEVATION	N/A		
NOTES: Contractor to supply all grade rings.			

DSBB PERFORMANCE DATA	
TREATMENT FLOW RATE (CFS)	4.42
FULL CAPTURE TRASH FLOW RATE (CFS)	N/A
SETTLING AREA (SF)	32.0
LOADING RATE (GPM/SF)	61.99
SCREEN SYSTEM STORAGE CAPACITY (CF)	28.38
SEDIMENT STORAGE CAPACITY (CF)	96.60
80% TSS REMOVAL @ 150 MICRON	

DSBB STORAGE CAPACITIES				
CAGE SCREEN CAPACITY				
	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	TOTAL (CF)
SCREEN 1	4.40	1.25	2.58	14.19
SCREEN 2	4.40	1.25	2.58	14.19
SEDIMENT CHAMBER CAPACITY				
CHAMBER 1	2.67	4.00	3.00	32.04
CHAMBER 2	2.58	4.00	3.00	32.04
CHAMBER 3	2.71	4.00	3.00	32.52

GENERAL NOTES

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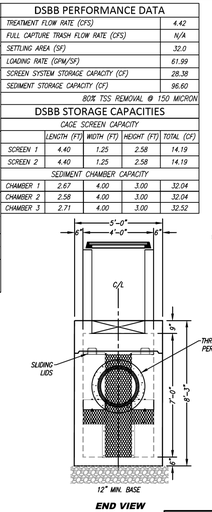
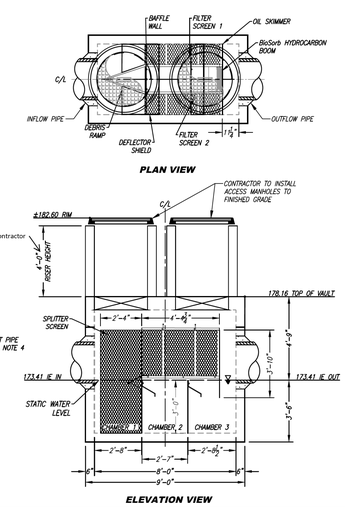
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.
3. MANHOLES AND ALTERNATIVE HATCHES AVAILABLE UPON REQUEST.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE DEBRIS SEPARATING BAFFLE BOX UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. MANUFACTURER RECOMMENDS A 6"–12" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH.)
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATERTIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.



END VIEW



PLAN VIEW

ELEVATION VIEW

PROPRIETARY AND CONFIDENTIAL:
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Bio Clean — A Forterra Company

DSBB-4-8-84
DUAL STAGE HYDRODYNAMIC SEPARATOR
STANDARD DETAIL

MONTEBELLO PARKWAY FILTRATION UNIT (DET H, SH 14)
NO SCALE

SITE SPECIFIC DATA			
PROJECT NUMBER	9597		
PROJECT NAME	EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE		
PROJECT LOCATION	LOS ANGELES, CA		
STRUCTURE ID	NORTHSIDE DR AT GARFIELD AVE FILTRATION UNIT		
TREATMENT REQUIRED			
WATER QUALITY FLOW RATE (CFS)	8.09		
FULL CAPTURE TRASH FLOW RATE (CFS)	N/A		
PEAK FLOW RATE (CFS)	16.00		
PEAK STORM DURATION (YEARS)	N/A		
PIPE & ELEVATION DATA			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	185.97	RCP	24"
OUTLET PIPE	185.97	RCP	24"
RIM ELEVATION	±198.40		
LOADING & SOIL DATA			
SURFACE LOADING	H-20 DIRECT		
FRAME & COVER	(3) #36"		
CORROSIVE SOIL CONDITIONS	N/A		
GROUNDWATER ELEVATION	N/A		
NOTES:			

DSBB PERFORMANCE DATA	
TREATMENT FLOW RATE (CFS)	9.94
FULL CAPTURE TRASH FLOW RATE (CFS)	N/A
SETTLING AREA (SF)	72.0
LOADING RATE (GPM/SF)	61.96
SCREEN SYSTEM STORAGE CAPACITY (CF)	55.09
SEDIMENT STORAGE CAPACITY (CF)	328.34
80% TSS REMOVAL @ 150 MICRON	

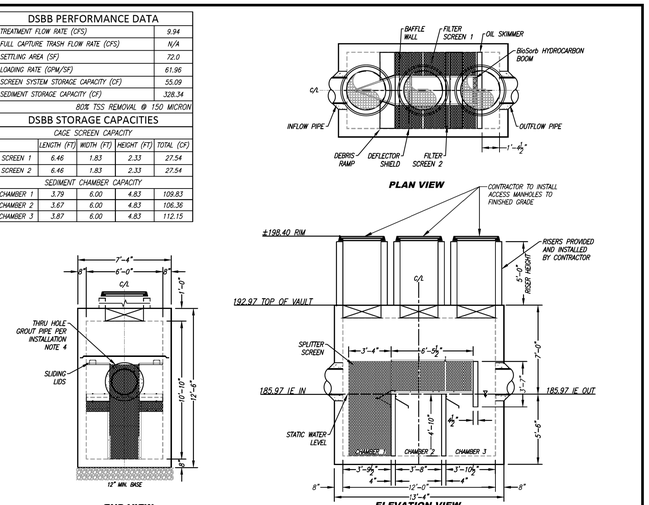
DSBB STORAGE CAPACITIES				
CAGE SCREEN CAPACITY				
	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	TOTAL (CF)
SCREEN 1	6.46	1.83	2.33	27.54
SCREEN 2	6.46	1.83	2.33	27.54
SEDIMENT CHAMBER CAPACITY				
CHAMBER 1	3.79	6.00	4.83	109.83
CHAMBER 2	3.67	6.00	4.83	106.36
CHAMBER 3	3.87	6.00	4.83	112.15

GENERAL NOTES

1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.
3. MANHOLES AND ALTERNATIVE HATCHES AVAILABLE UPON REQUEST.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE DEBRIS SEPARATING BAFFLE BOX UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. MANUFACTURER RECOMMENDS A 6"–12" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH.)
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATERTIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.



END VIEW

PLAN VIEW

ELEVATION VIEW

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Bio Clean — A Forterra Company

DSBB-6-12-130
DUAL STAGE HYDRODYNAMIC SEPARATOR
STANDARD DETAIL

NORTHSIDE DR AT GARFIELD AVE FILTRATION UNIT (DET G, SH 14)
NO SCALE

SITE SPECIFIC DATA			
PROJECT NUMBER	9597		
PROJECT NAME	EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE		
PROJECT LOCATION	LOS ANGELES, CA		
STRUCTURE ID	SOUTHSIDE DR AT GARFIELD AVE FILTRATION UNIT		
TREATMENT REQUIRED			
WATER QUALITY FLOW RATE (CFS)	7.73		
FULL CAPTURE TRASH FLOW RATE (CFS)	N/A		
PEAK FLOW RATE (CFS)	16.00		
PEAK STORM DURATION (YEARS)	N/A		
PIPE & ELEVATION DATA			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	181.38	RCP	24"
OUTLET PIPE	181.38	RCP	24"
RIM ELEVATION	±191.30		
LOADING & SOIL DATA			
SURFACE LOADING	H-20 DIRECT		
FRAME & COVER	(3) #36"		
CORROSIVE SOIL CONDITIONS	N/A		
GROUNDWATER ELEVATION	N/A		
NOTES:			

DSBB PERFORMANCE DATA	
TREATMENT FLOW RATE (CFS)	9.94
FULL CAPTURE TRASH FLOW RATE (CFS)	N/A
SETTLING AREA (SF)	72.0
LOADING RATE (GPM/SF)	61.96
SCREEN SYSTEM STORAGE CAPACITY (CF)	55.09
SEDIMENT STORAGE CAPACITY (CF)	328.34
80% TSS REMOVAL @ 150 MICRON	

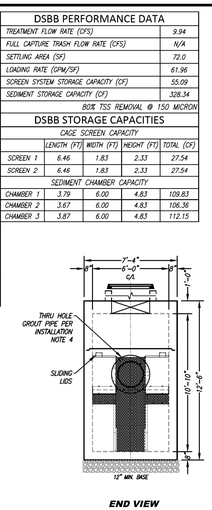
DSBB STORAGE CAPACITIES				
CAGE SCREEN CAPACITY				
	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	TOTAL (CF)
SCREEN 1	6.46	1.83	2.33	27.54
SCREEN 2	6.46	1.83	2.33	27.54
SEDIMENT CHAMBER CAPACITY				
CHAMBER 1	3.79	6.00	4.83	109.83
CHAMBER 2	3.67	6.00	4.83	106.36
CHAMBER 3	3.87	6.00	4.83	112.15

GENERAL NOTES

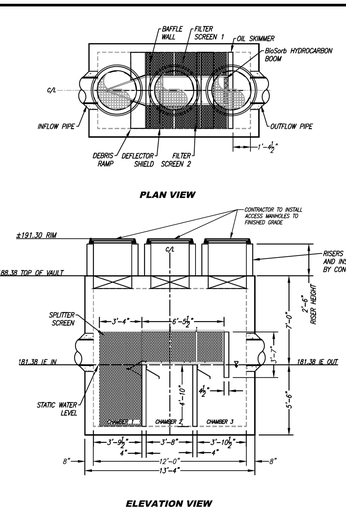
1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.
3. MANHOLES AND ALTERNATIVE HATCHES AVAILABLE UPON REQUEST.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE DEBRIS SEPARATING BAFFLE BOX UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. MANUFACTURER RECOMMENDS A 6"–12" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH.)
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATERTIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.



END VIEW



PLAN VIEW

ELEVATION VIEW

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Bio Clean — A Forterra Company

DSBB-6-12-130
DUAL STAGE HYDRODYNAMIC SEPARATOR
STANDARD DETAIL

SOUTHSIDE DR AT GARFIELD AVE FILTRATION UNIT (DET I, SH 14)
NO SCALE

04/28/22	■	AS BUILT REVISIONS
DATE	MK	DESCRIPTION
REVISIONS		

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER RAMÉE — C 84117 — CIVIL — STATE OF CALIFORNIA

Chris Ramé 04/28/22
PROJECT ENGINEER — DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

FILTRATION UNIT DETAILS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 | PD053092 | SHEET 27 OF 27

DRAFTER: C. RAVÉ
DESIGNED: C. RAVE
CHECKED: C. RAVE
GADD PROJECT FILE NAME: EAST LA MEDIANS.DGN

AS BUILT DRAWINGS

PLAN DR