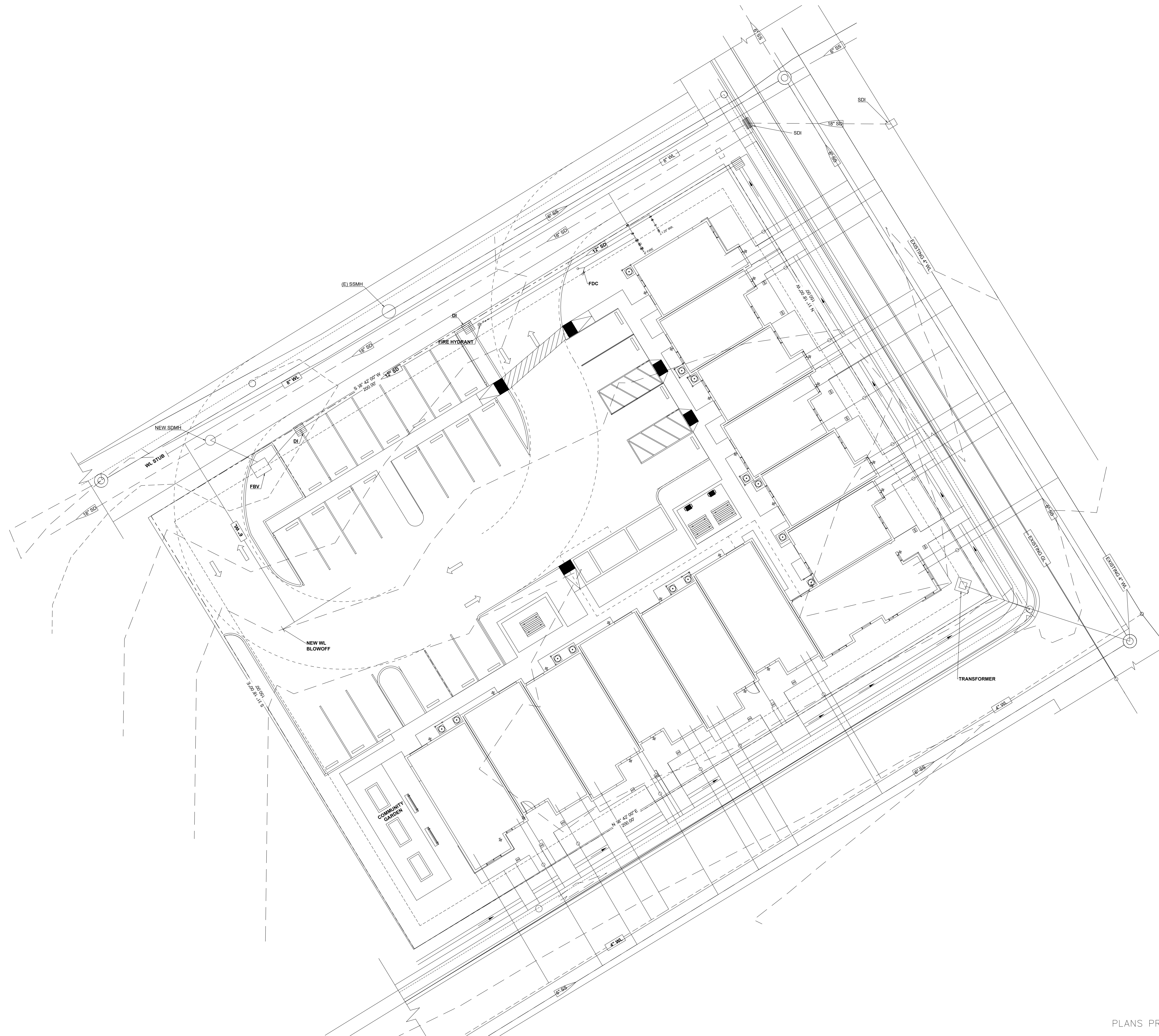


PC EXHIBIT D



LEGEND	
KEY	DESCRIPTION
SS	SANITARY SEWER
SD	STORM DRAIN
MH	MANHOLE
GL	GAS LINE
WL	WATER LINE
COTG	CLEAN OUT TO GRADE
(E)	EXISTING
FBV	FILTERRA BIOSCAPE VAULT
SWQ	STORM WATER QUALITY
VCP	VITRIFIED CLAY PIPE
- - - -	EXISTING PIPE
————	PROPOSED PIPE

BOTH THE WATERLINE AND GASLINE IN CENTER STREET ARE EXISTING.

FILTERRA BIOSCAPE VAULT HAS SMALL FOOTPRINT. IT IS 4' BY 4'.

A WATER STUDY WILL BE REQUIRED AS PART OF THE CIVIL SITE IMPROVEMENT PLAN SUBMITTAL. THE WATER MAIN IN CENTER WILL LIKELY NEED TO BE UPSIZED TO SATISFY THE REQUIRED FLOW. THE WATER STUDY WILL PROVIDE THE LIMITS OF THE WATER MAIN IMPROVEMENTS.

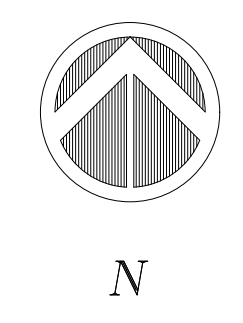
VCP WILL BE USED IN SEWER LINES.

BEFORE EXCAVATING CALL U.S.A
UNDERGROUND SERVICE ALERT

800-227-2600 TOLL FREE
3 WORKING DAYS BEFORE ALL PLANNED WORK OPERATIONS
VISIT WWW.USANORTH811.ORG ([http://www.usanorth811.org](http://WWW.USANORTH811.ORG))
TO SUBMIT YOUR TICKET ONLINE, OR DIAL 811; AVAILABLE 24 HOURS A DAY, 7 DAYS A WEEK (INCLUDING HOLIDAYS).

LOCATION AND/OR ELEVATIONS OF ALL EXISTING UTILITIES ARE UNKNOWN. CONTRACTOR SHALL POTHOLE AND VERIFY THIS INFORMATION AND NOTIFY THE CIVIL ENGINEER OF ANY CONFLICT WITH THE DESIGN PRIOR TO STARTING OF CONSTRUCTION.

UTILITY PLAN
SCALE: 1" = 10'

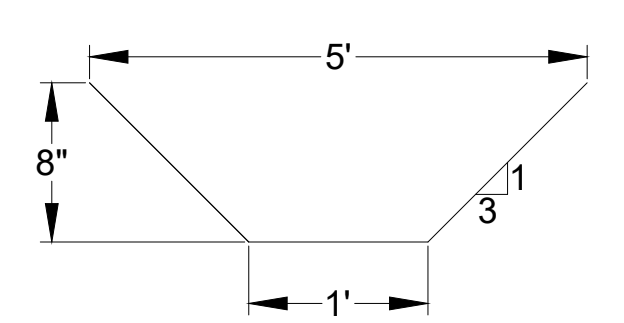
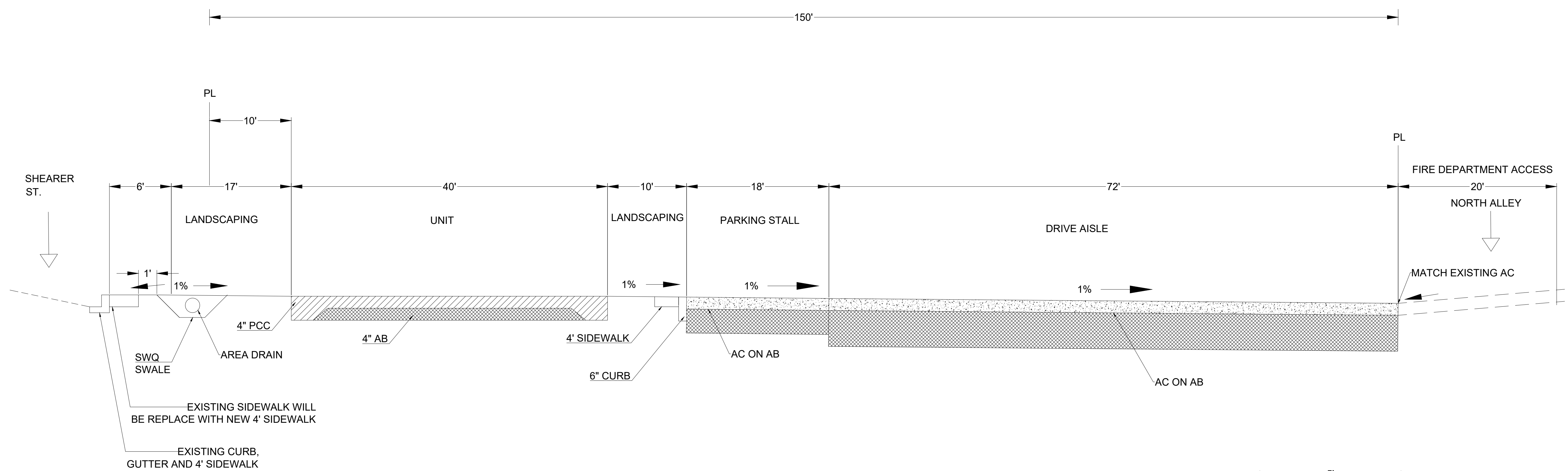


PLANS PREPARED UNDER THE DIRECTION OF:
MICHAEL R. ANDERSON R.C.E. 65499 DATE

CAN AM ENGINEERING & EXPLORATION
maincali74@gmail.com

LOEFFLER-ROSEVILLE MULTI-FAMILY COMPLEX
124 CENTER ST.
ROSEVILLE, CA 95678
APN: 013-022-047

SCALE	AS SHOWN	DATE	CITY	BY	CHK	CITY	SHEET NO.
NOVEMBER 2023	NOVEMBER 2023	NOVEMBER 2023	NOVEMBER 2023	NOVEMBER 2023	NOVEMBER 2023	NOVEMBER 2023	C1
							OF C4 SHEETS
							PROJ. NO. 2022.699



SWQ SWALE DETAIL
 ON FLOOR OF SWALE, PLANT DELTA BLUE GRASS BIOFILTRATION SOD.

FOR DEPTH OF FILTRATION SOIL LAYER, SEE OR VIEW FACT SHEET CALLED VEGETATED SWALE SDM-6 DURING THE DESIGN PHASE.

SECTION A-A

FROM SHEARER ST. TO NORTH ALLEY

NO SCALE

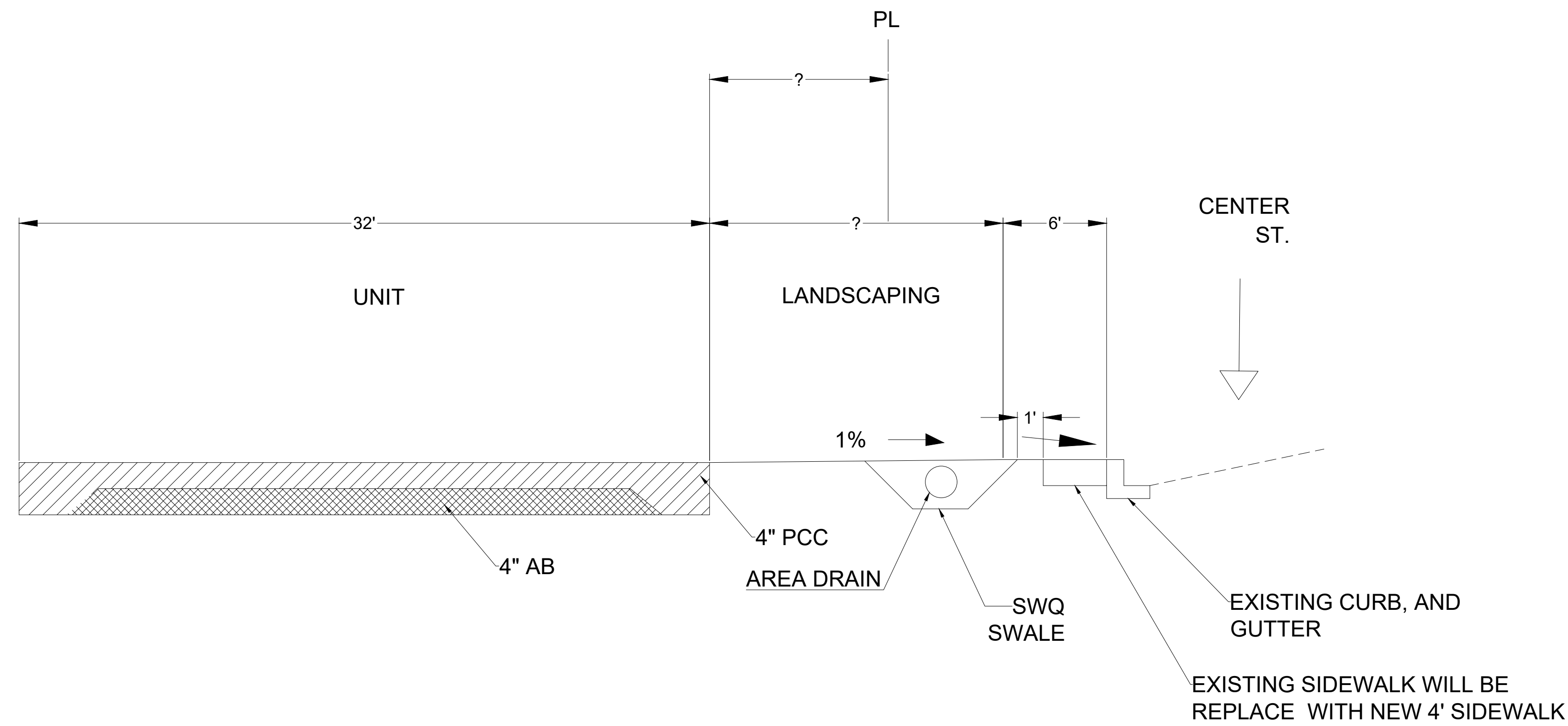
PLANS PREPARED UNDER THE DIRECTION OF:



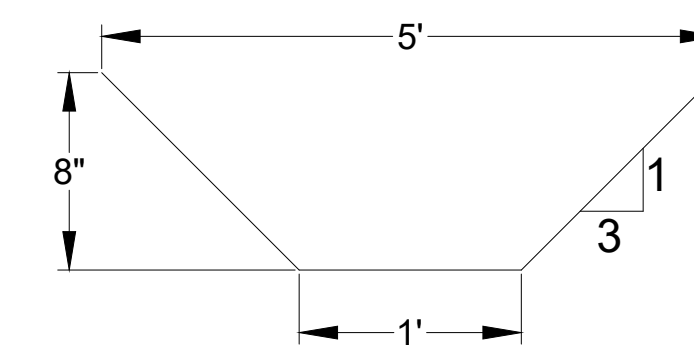
MICHAEL R. ANDERSON R.C.E. 65499 DATE

SCALE	AS SHOWN	DATE	CITY
	NOVEMBER 2023		
DRAWN	CHECKED	PROJ. MGR.	JF
BY	CHK	SHEET REVISIONS	DATE

SHEET NO. **C3**
 OF C4 SHEETS
 PROJ. NO. **2022.699**



FOR TEMPORARY EROSION CONTROL IN SWQ CHANNEL, USE CALTRANS STD DWG T-55 OR EQUAL.



SWQ SWALE DETAIL

SECTION B-B

FROM CENTER ST. TO UNIT

NO SCALE



PLANS PREPARED UNDER THE DIRECTION OF:

MICHAEL R. ANDERSON

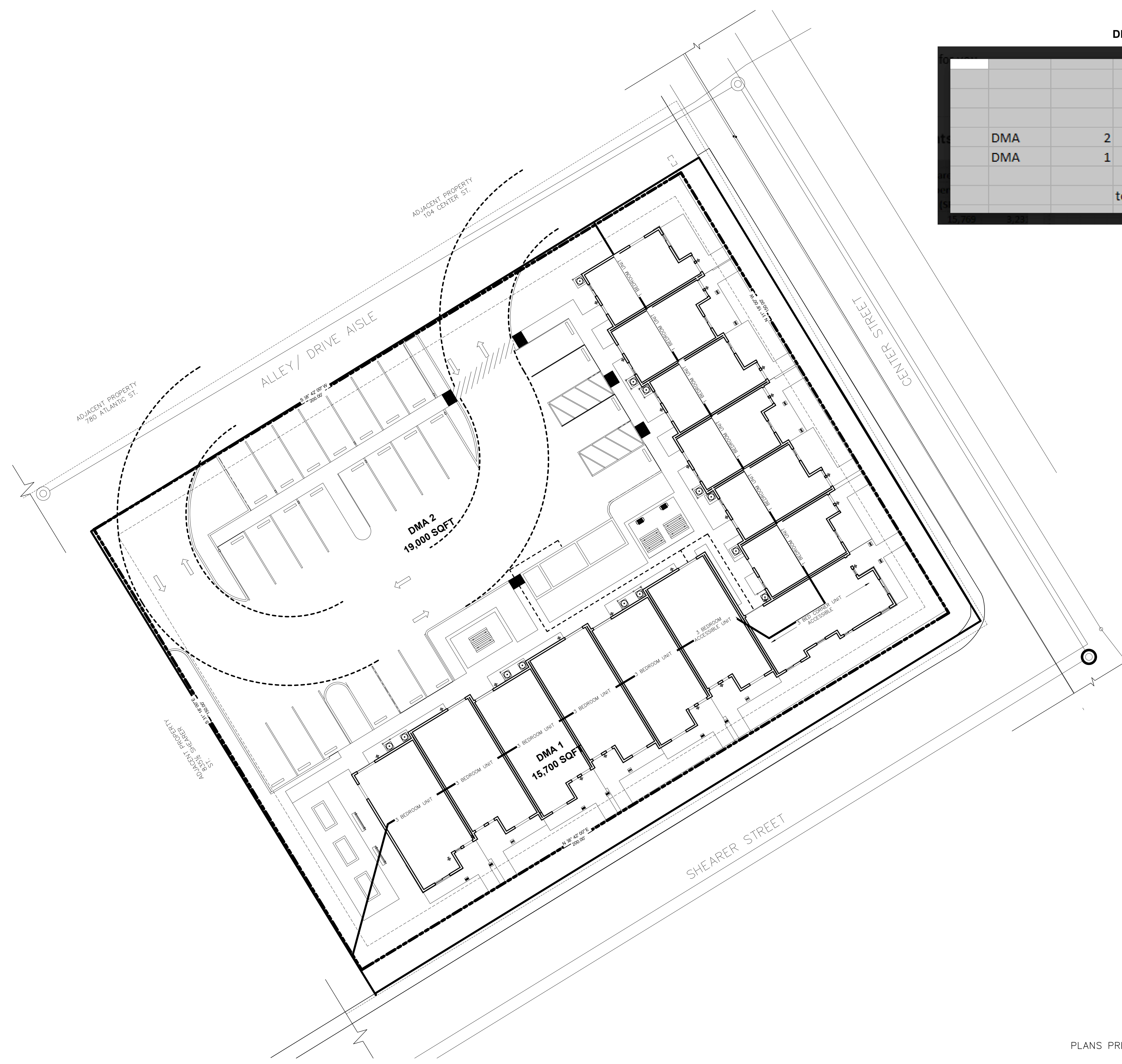
R.C.E. 65499

DATE

SCALE	AS SHOWN
DATE	NOVEMBER 2023
DRAWN	AW
CHECKED	JGR
PROJ. MGR.	JF

DATE	BY	CHK	CITY

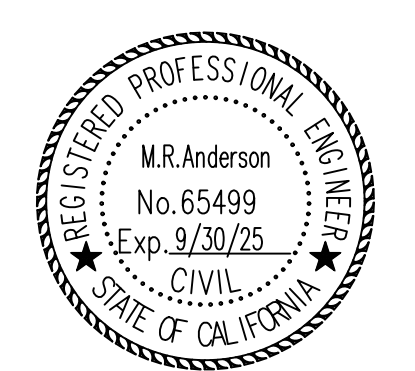
SHEET NO.	C4
OF	C4 SHEETS
PROJ. NO.	2022.699



DRAINAGE MANAGEMENT AREA TABLE

		area total (SF)	area impervious (SF)	area pervious (SF)
DMA	2	19,000	15,769	3,231
DMA	1	15,700	6,207	9,493
	total	34,700	21,976	12,724

SHED MAP



PLANS PREPARED UNDER THE DIRECTION OF:

MICHAEL R. ANDERSON

R.C.E. 65499

DATE

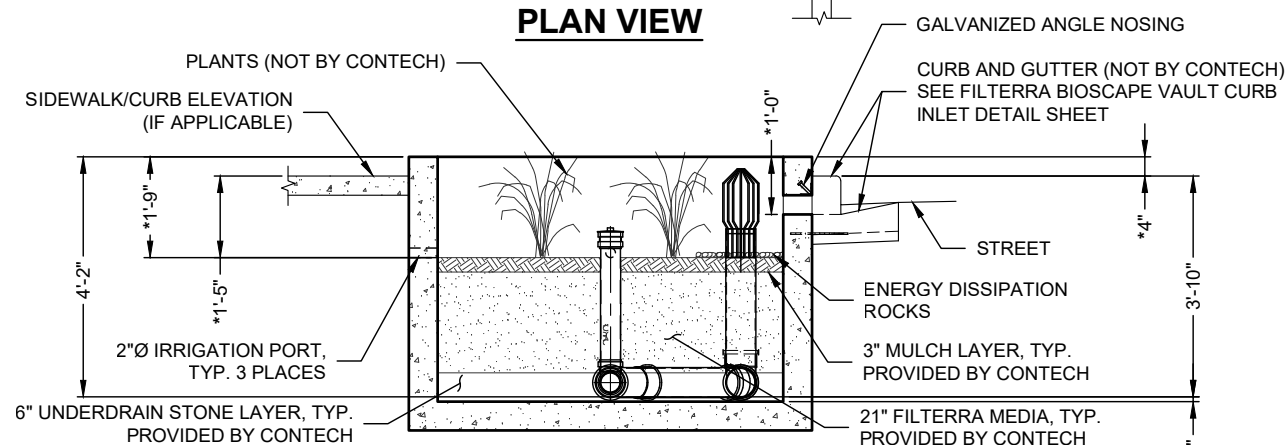
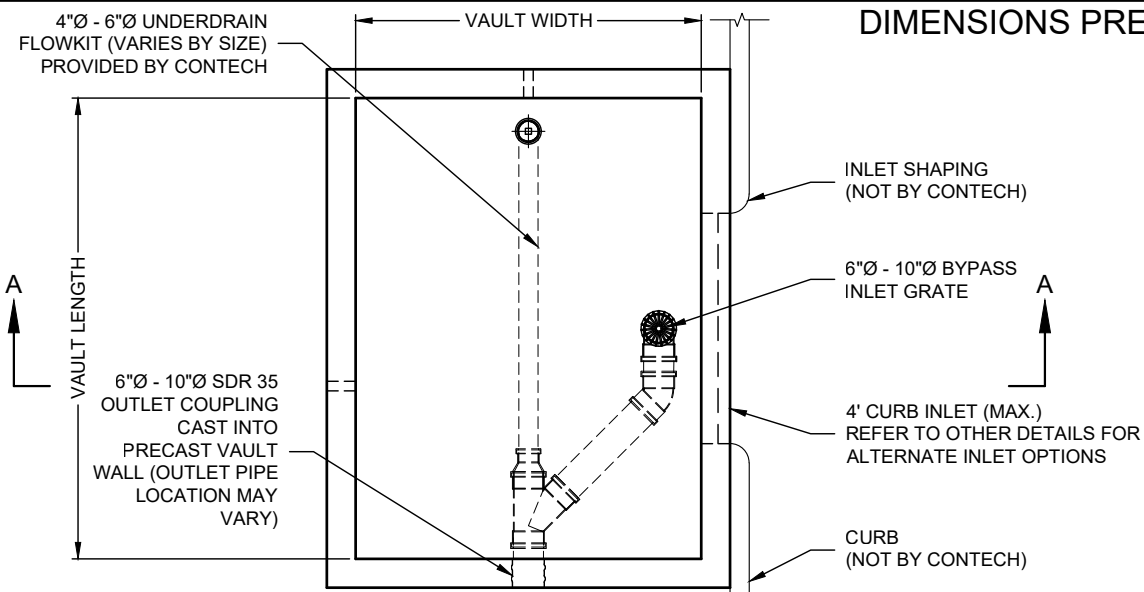
CAN AM ENGINEERING &
EXPLORATION
maincali74@gmail.com

LOEFFLER-ROSEVILLE MULTI-FAMILY COMPLEX
124 CENTER ST.
ROSEVILLE, CA 95678
APN: 013-022-047

SCALE	DATE	CITY
AS SHOWN	NOVEMBER 2023	
BY	CHK	
SHEET REVISIONS		
DATE	CHK	

SHEET NO.
1
OF 1 SHEETS
PROJ. NO.:
2022.699

I:\COMMON\CAD\TREATMENT\54 FILTERRA\40 STANDARD DRAWINGS\IN PROCESS\DETAILS\FTBSVIB - FILTERRA BIOSCAPE VAULT INTERNAL BYPASS CONFIG DTL.DWG - 3/15/2023 5:57 PM



SLOTTED THROAT INLET - TOP EXTENDS 4" ABOVE CURB FOR ADJACENT SIDEWALKS (-T)

FTBSVIB CONFIGURATION

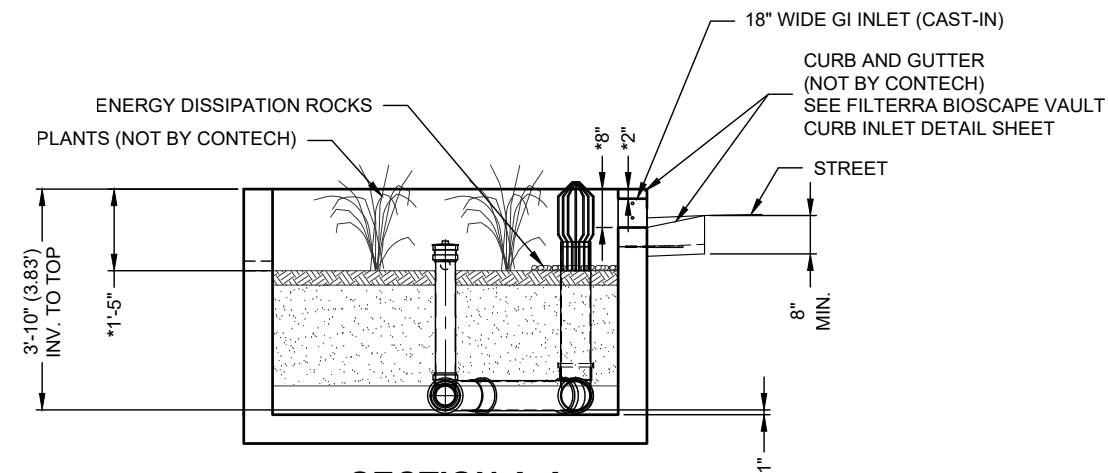
(OPTIONS: BASIN "-B", GREEN INFRASTRUCTURE (GI) INLET "-I", PIPE INLET "-P", SLOTTED THROAT INLET "-T")

VAULT SIZE (L x W)	MEDIA AREA (SF)	LONG SIDE INLET DESIG. / PART NO.	SHORT SIDE INLET DESIG. / PART NO.	AVAILABILITY	MAX. OUTLET / BYPASS PIPE DIA.	MAX. BYPASS FLOW (CFS)	UNDER-DRAIN PIPE DIA. (PERF)	MIN. NO. OF INLET PIPES (-P ONLY)
4 x 4	16	FTBSVIB0404	FTBSVIB0404	ALL	6" SDR 35	1.42	4" SDR 35	1
6 x 4	24	FTBSVIB0604	FTBSVIB0406	ALL	8" SDR 35	1.89	4" SDR 35	1
8 x 4	32	FTBSVIB0804	FTBSVIB0408	ALL (EXCEPT DE,MD,NJ,PA,VA,WV)	8" SDR 35	1.89	4" SDR 35	1
7.83 x 4.5	35	FTBSVIB078045	FTBSVIB045078	DE,MD,NJ,PA,VA,WV ONLY	8" SDR 35	1.89	4" SDR 35	1
6 x 6	36	FTBSVIB0606	FTBSVIB0606	ALL (EXCEPT CA, TX)	8" SDR 35	1.89	4" SDR 35	1
8 x 6	48	FTBSVIB0806	FTBSVIB0608	ALL	10" SDR 35	2.37	4" SDR 35	1
10 x 6	60	FTBSVIB1006	FTBSVIB0610	ALL (EXCEPT CA, TX)	10" SDR 35	2.37	6" SDR 35	2
8 x 8	64	FTBSVIB0808	FTBSVIB0808	CA, TX ONLY	10" SDR 35	2.37	6" SDR 35	2
12 x 6	72	FTBSVIB1206	FTBSVIB0612	ALL (EXCEPT TX)	10" SDR 35	2.37	6" SDR 35	2
10 x 8	80	FTBSVIB1008	FTBSVIB0810	CA, TX ONLY	10" SDR 35	2.37	6" SDR 35	2
13 x 7	91	FTBSVIB1307	FTBSVIB0713	ALL (EXCEPT CA, TX)	10" SDR 35	2.37	6" SDR 35	2
12 x 8	96	FTBSVIB1208	FTBSVIB0812	CA, TX ONLY	10" SDR 35	2.37	6" SDR 35	2
14 x 8	112	FTBSVIB1408	N/A	ALL	10" SDR 35	2.37	6" SDR 35	3
16 x 8	128	FTBSVIB1608 [†]	N/A	ALL (EXCEPT OR,WA)	10" SDR 35	2.37	6" SDR 35	3
15 x 9	135	FTBSVIB1509 [†]	N/A	OR,WA ONLY	10" SDR 35	2.37	6" SDR 35	3
18 x 8	144	FTBSVIB1808 [†]	N/A	CALL CONTECH	10" SDR 35	2.37	6" SDR 35	3
20 x 8	160	FTBSVIB2008 [†]	N/A	CALL CONTECH	10" SDR 35	2.37	6" SDR 35	4
22 x 8	176	FTBSVIB2208 [†]	N/A	CALL CONTECH	10" SDR 35	2.37	6" SDR 35	4

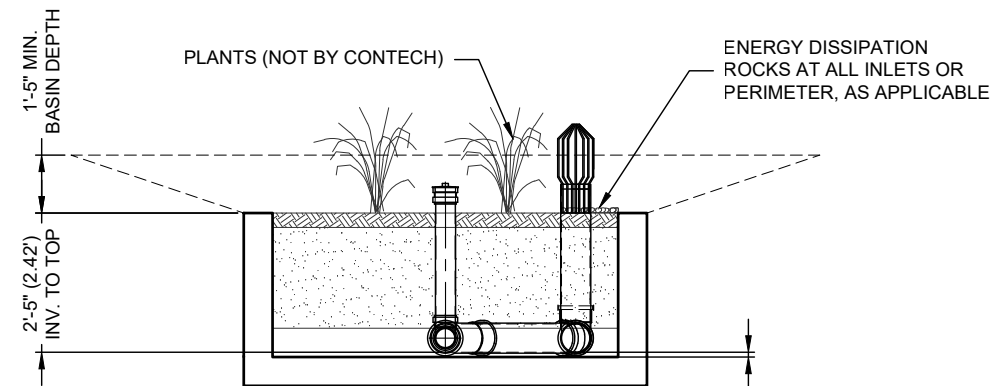
[†]UTILIZES (2) CURB OPENINGS WITH MIN 1' SPACING

INTERNAL PIPE CONFIGURATION MAY VARY DEPENDING ON VAULT SIZE

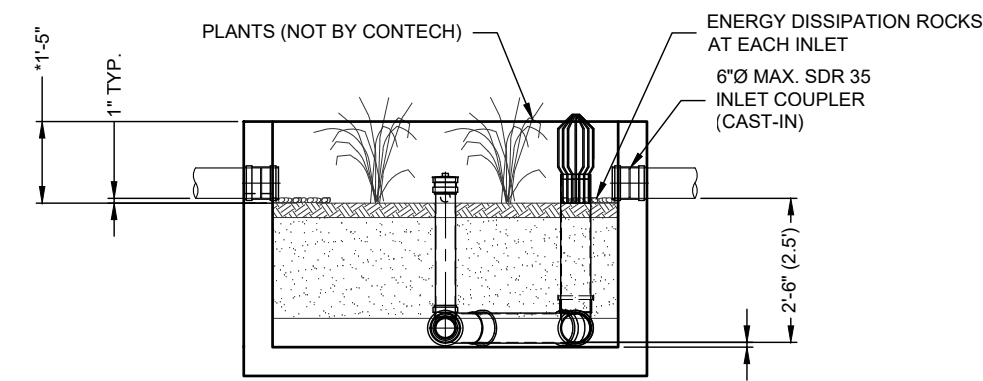
DIMENSIONS PRECEDED BY " * " ARE CRITICAL AND MAY NOT BE MODIFIED WITHOUT CONSULTING CONTECH



SECTION A-A
GREEN INFRASTRUCTURE INLET - TOP FLUSH WITH TOP OF CURB, NOT INTENDED FOR SIDEWALK APPLICATIONS (-I)



SECTION A-A
BASIN - CURB INLET OR PIPE INLETS OPTIONAL (-B)



SECTION A-A
PIPE INLET (-P)

AS WITH ALL OPEN TOP BIORETENTION SYSTEMS, FILTERRA BIOSCAPE IS OPEN TO THE ATMOSPHERE WITH A MEDIA SURFACE RECESSED BELOW FINISHED GRADE. CONTRACTOR OR OWNER IS RESPONSIBLE FOR PROVIDING ANY REQUIRED SAFETY MEASURES AROUND SYSTEM PERIMETER. TO MAINTAIN AESTHETICS, REMOVAL OF HEAVY STORMWATER DEBRIS MAY BE NECESSARY BETWEEN REGULAR FILTERRA SYSTEM MAINTENANCE EVENTS.



OR PATENT INFORMATION, GO TO www.ContechES.com/IP

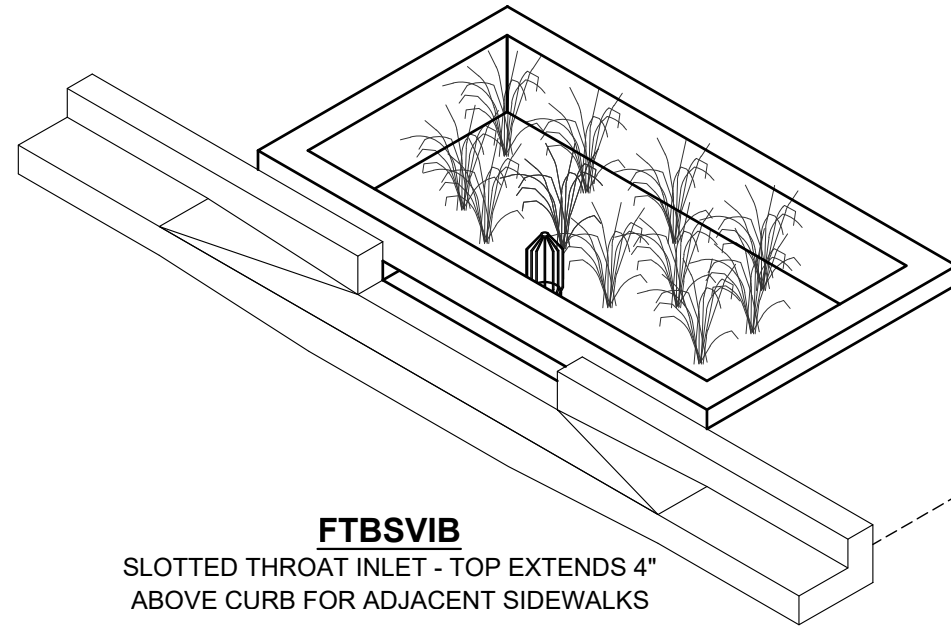
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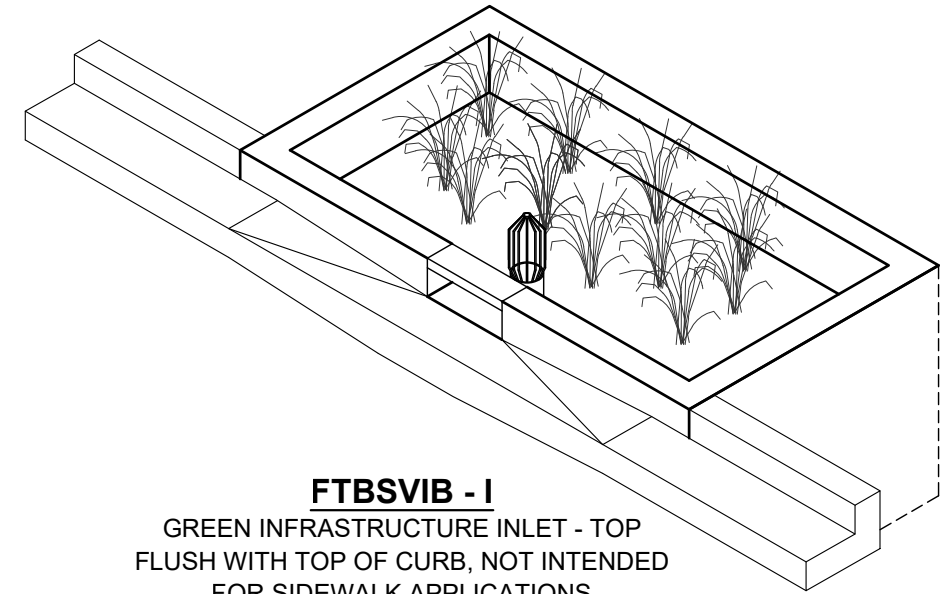
9100 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

FILTERRA BIOSCAPE VAULT INTERNAL BYPASS (FTBSVIB) CONFIGURATION DETAIL

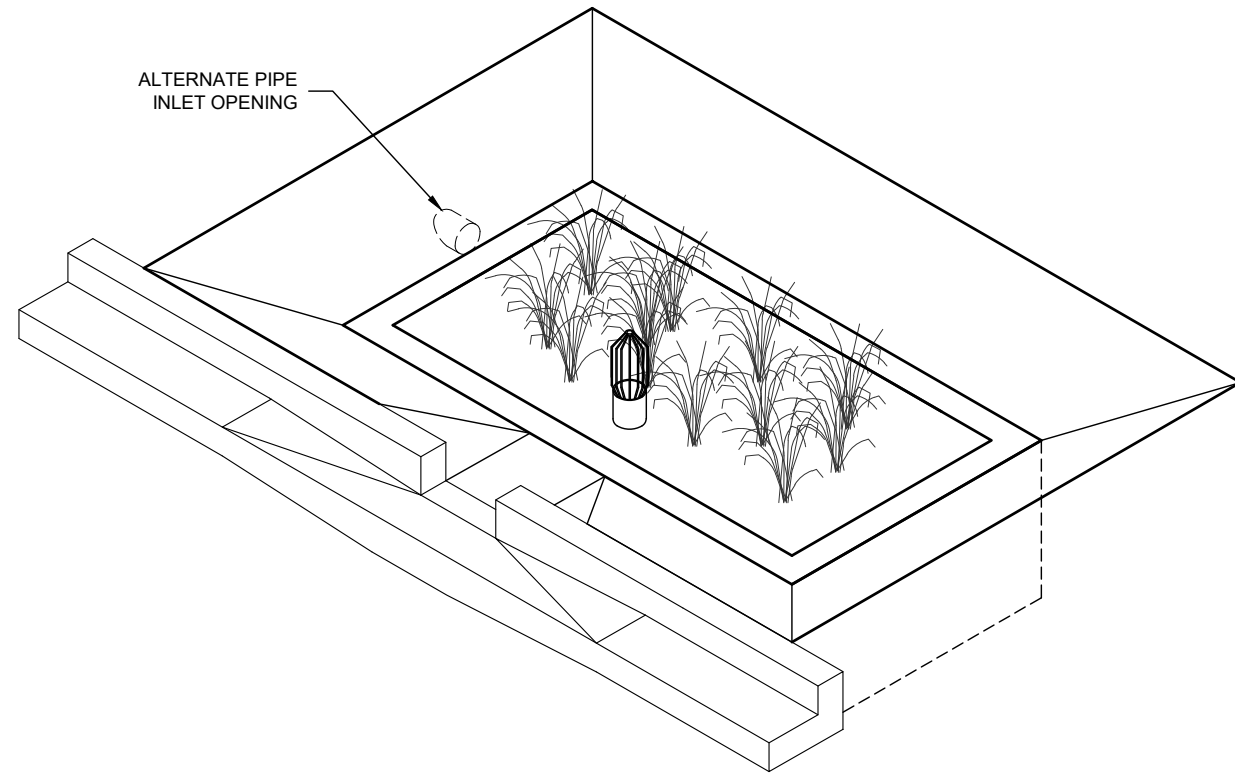
I:\COMMON\CAD\TREATMENT\54 FILTERRA\40 STANDARD DRAWINGS\IN PROCESS\STD DETAILS\FTBSVIB - FILTERRA BIOSCAPE VAULT INTERNAL BYPASS CONFIG DTL.DWG 3/15/2023 5:57 PM



FTBSVIB
SLOTTED THROAT INLET - TOP EXTENDS 4"
ABOVE CURB FOR ADJACENT SIDEWALKS

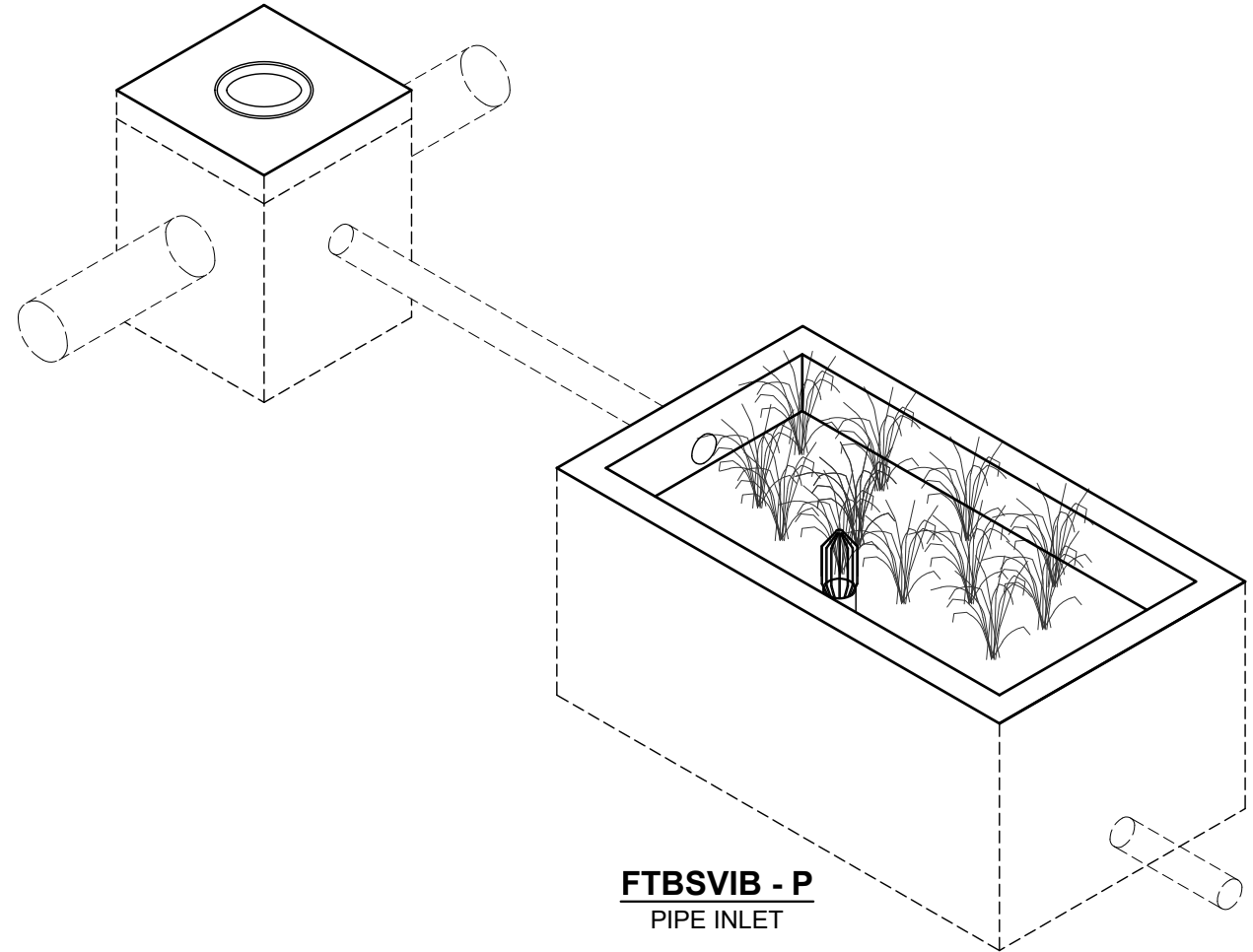


FTBSVIB - I
GREEN INFRASTRUCTURE INLET - TOP
FLUSH WITH TOP OF CURB, NOT INTENDED
FOR SIDEWALK APPLICATIONS



ALTERNATE PIPE
INLET OPENING

FTBSVIB - B
BASIN - CURB INLET OR PIPE INLET OPTIONAL



FTBSVIB - P
PIPE INLET

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800-338-1122 513-645-7000 513-645-7993 FAX

FILTERRA BIOSCAPE VAULT INTERNAL BYPASS
(FTBSVIB)
SITE LAYOUT DETAIL



SITE PLAN NOTES

1. ALL WORK PERFORMED ON THIS PROJECT SHALL BE IN CONFORMANCE WITH THESE PLANS AND THE STANDARDS SET BY THE LOCAL BUILDING OFFICIAL.
2. NO DEVIATION FROM THESE DRAWINGS SHALL BE MADE WITHOUT PRIOR DOCUMENTED CONSENT OF THE LAND SURVEYOR. REPORT ANY PLAN DISCREPANCIES TO THE LAND SURVEYOR AND OWNER.
3. ALL DIMENSIONS SHALL BE VERIFIED ON PLANS AND DIMENSIONS SHALL BE VERIFIED WITHIN THE PROJECT PRIOR TO COMMENCEMENT OF WORK. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS PREVAIL.

SITE PLAN LEGEND

KEY	DESCRIPTION
	FOUND CAP
	PROPERTY CORNER

* (E) = EXISTING, (P) = PROPOSED, CONC = CONCRETE, OH = OVERHANG
 (F) = FUTURE, CONT. = CONTINUATION, SB = SETBACK, HP = HIGH POINT
 (UG) = UNDERGROUND, TOS = TOP OF SLAB, FF = FINISHED FLOOR
 TOP = TOP OF PLATE, FS = FINISHED SURFACE

DATE: _____

REVISIONS:



A SITE PLAN FOR:
 APN: 013-022-047
 ROSEVILLE, CA 95678

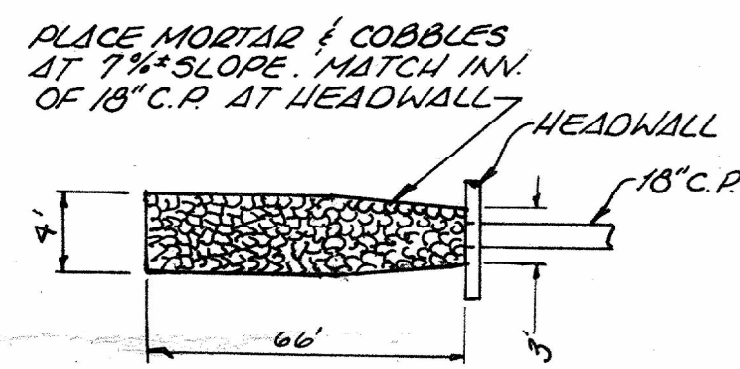
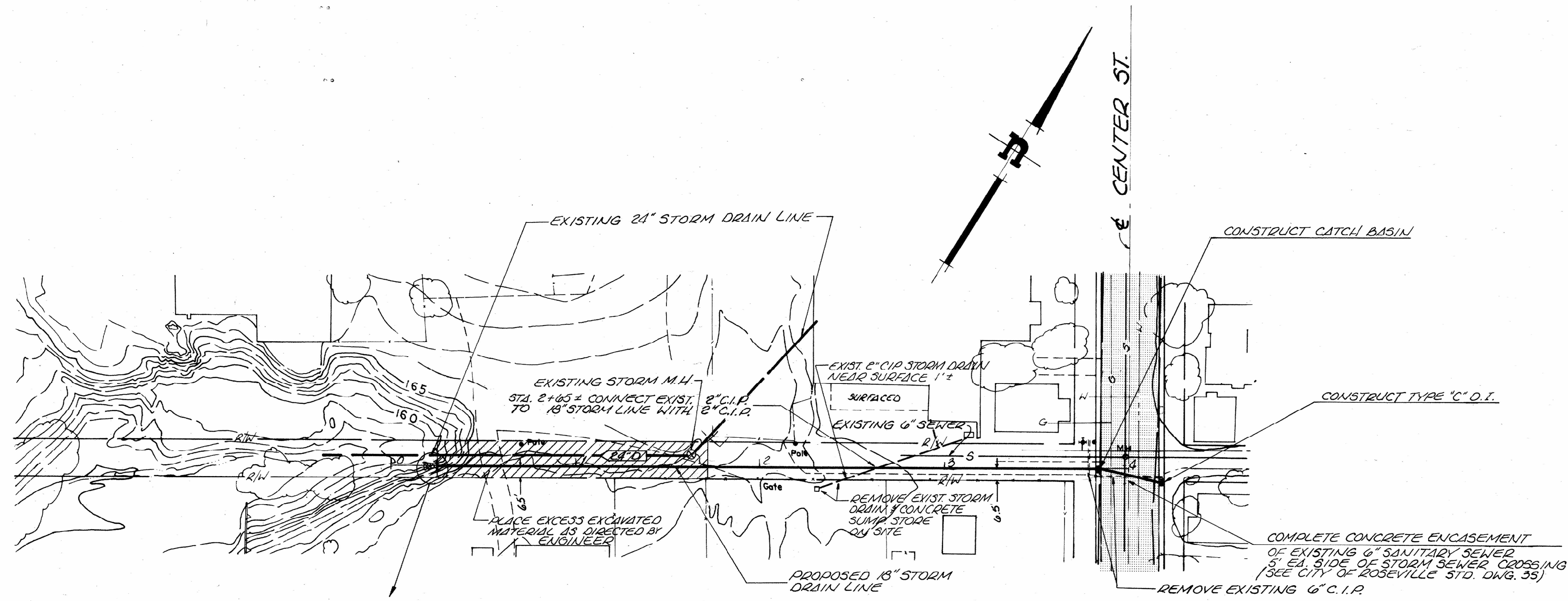
SCALE: 1"=20'
 DRAWN: AMH
 CHECKED: AMH
 DATE: 1/12/22
 NOTES:



SITE PLAN
 SCALE: 1" = 20'

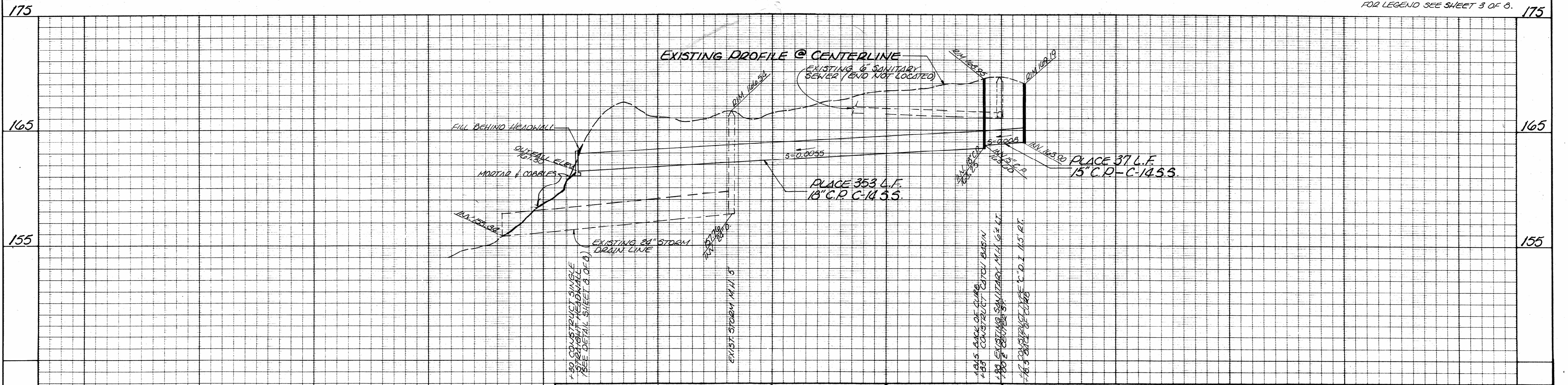


SHEET
SP



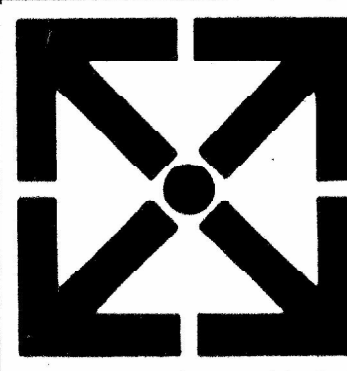
STORM SEWER - LINE "A"

NOTE: FOR LEGEND SEE SHEET 3 OF 8.



VERTICAL DATUM
CITY OF ROSEVILLE
DATUM: "X" CHISELED
IN TOP OF CURB @ S.E.
CORNER OF MECH. ARTS
BLDG. ROSEVILLE HIGH
SCHOOL. B.M. ELEV.
170.72.

DESIGNED AHS
DRAWN GHA
CHECKED _____
APPROVED W.G. Atteberry



ATTEBERRY & ASSOCIATES
ENGINEERS - SURVEYORS - PLANNERS

LINDA CREEK PROFESSIONAL PARK (918) 782-3725
730 SUNRISE AVENUE ROSEVILLE, CA 95678

ATLANTIC STREET EAST
ASSESSMENT DISTRICT
STORM SEWER-LINE "A"
STA. 0+25 TO STA. 4+17
CITY OF ROSEVILLE

SCALE 1/4" = 1'-0"
DATE JULY 1976
DRAWING NUMBER 76001

SHEET 7 OF 8
SHEETS