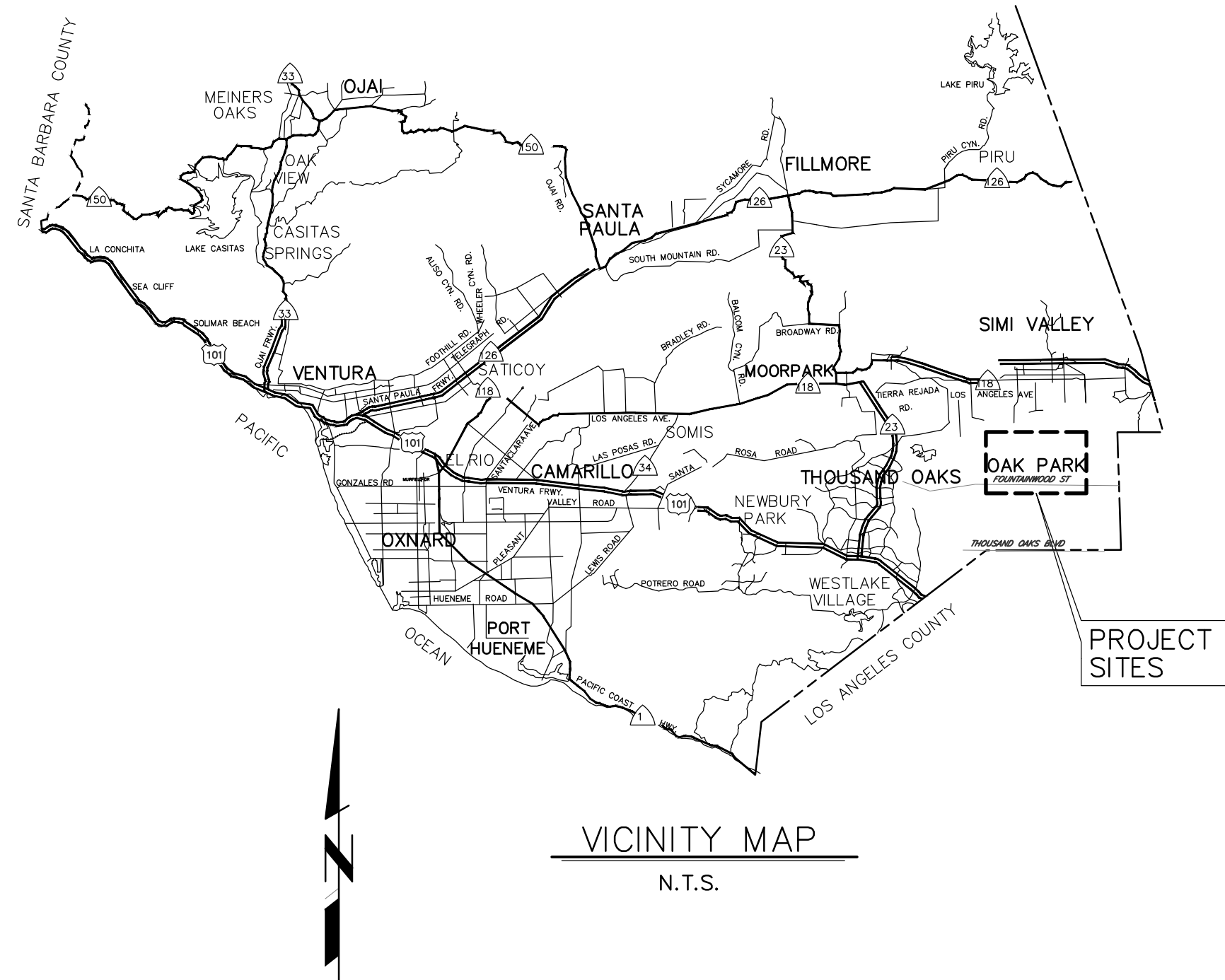


COUNTY OF VENTURA
PUBLIC WORKS AGENCY
VENTURA COUNTY WATERSHED PROTECTION DISTRICT
OAK PARK GREEN STREETS URBAN RETROFIT



VICINITY MAP
N.T.S.

GENERAL NOTES

- ELEVATIONS SHOWN ARE IN US SURVEY FEET, THE BASIS OF BEARINGS & COORDINATES FOR THIS SURVEY ARE CCS83, ZONE 5, EPOCH 2010.0, DEFINED LOCALLY BY TIES TO REAL-TIME NETWORK "CALVRS", USING REAL TIME NETWORK CORRECTIONS TO ESTABLISH CONTROL VALUES.
- THE VERTICAL DATUM OF THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) DEFINED LOCALLY BY TIES TO REAL-TIME NETWORK "CALVRS", USING REAL TIME NETWORK CORRECTIONS AND GEOID12A TO ESTABLISH ORTHOMETRIC HEIGHTS.
- STATIONS SHOWN ON DRAWINGS ARE FOR REFERENCE PURPOSES ONLY AND DO NOT CORRESPOND TO ESTABLISHED CENTERLINE STATIONING.
- NUMBERS IN INDICATE BID ITEMS UNDER WHICH PAYMENT WILL BE MADE.
- LETTERS AND NUMBERS IN INDICATE THE DETAIL CALL-OUT AND SHEET ON WHICH REFERENCE DETAIL IS SHOWN.
- NUMBERS IN REFER TO NOTES ON THE SAME SHEET UNLESS OTHERWISE NOTED.
- LIMITED TOPOGRAPHY SHOWN ON THESE PLANS WERE TAKEN FROM SURVEYS PERFORMED IN SEPTEMBER 2014. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING SITE TOPOGRAPHICAL FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THESE PLANS AT THE TIME OF THE PRE-BID CONFERENCE, WHICH WILL BE HELD AT THE SITE.
- EXISTING IMPROVEMENTS WITHIN THE RIGHT OF WAY AND WORK AREAS SHALL REMAIN AND SHALL BE PROTECTED UNLESS OTHERWISE NOTED. DAMAGED IMPROVEMENTS SHALL BE REPLACED IN KIND TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
- UTILITIES ARE SHOWN AS KNOWN TO EXIST AT TIME OF SURVEY. UTILITIES MAY HAVE BEEN OMITTED, MISPLACED, AND/OR RELOCATED. CONTRACTOR SHALL EXERCISE CARE IN EXCAVATION AND SHALL PROTECT ALL UTILITIES.
- SYMBOL INDICATES THE LOCATION OF THE HORIZONTAL AND VERTICAL CONTROL POINTS WHICH ARE INCLUDED IN THE SPECIAL PROVISIONS.
- CONTRACTOR SHALL NOTIFY UTILITY OWNERS A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK IN AREAS AFFECTING THEIR FACILITIES:

SOUTHERN CALIFORNIA GAS CO	TEL. NO. (818) 701-3228	JACK RUSSO
SOUTHERN CALIFORNIA EDISON CO (SCE)	TEL. NO. (805) 494-7040	WILLIAM NOBLE
VERIZON (TELECOMMUNICATIONS)	TEL. NO. (805) 482-7588	ROBERT MUSGROVE
AT&T - INQUIRIES	TEL. NO. (714) 963-7964	WALTER WERSTIUK
TIME WARNER CABLE	TEL. NO. (805) 477-4410	EDUARDO CALDERON
CALLEGUAS MUNICIPAL WATER DISTRICT	TEL. NO. (805) 579-7138	TONY GOFF
TRIUNFO SANITATION DISTRICT & OAK PARK WATER	TEL. NO. (805) 658-4648	RICHARD JONES

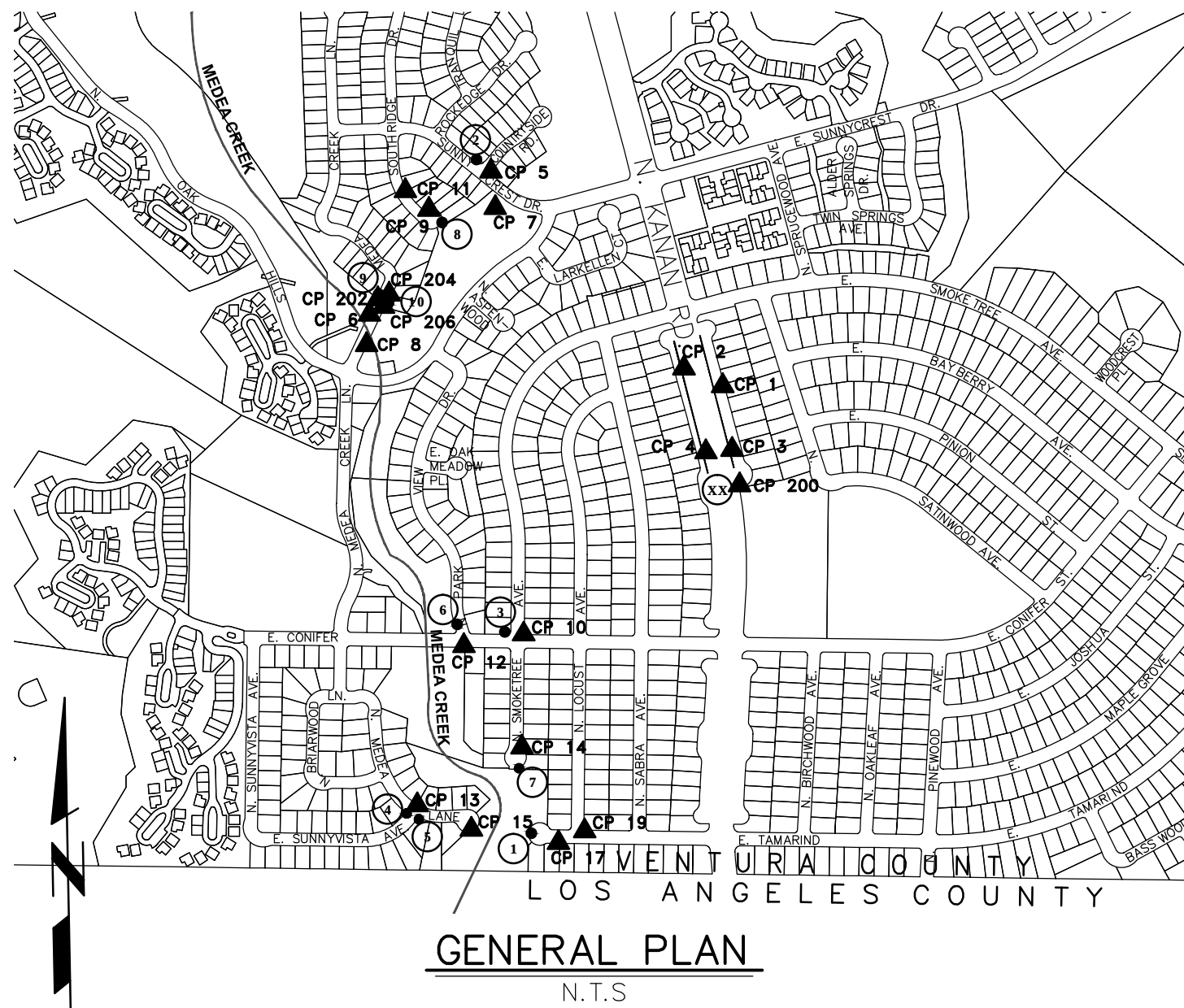
UNDERGROUND SERVICE ALERT

1-800-422-4133

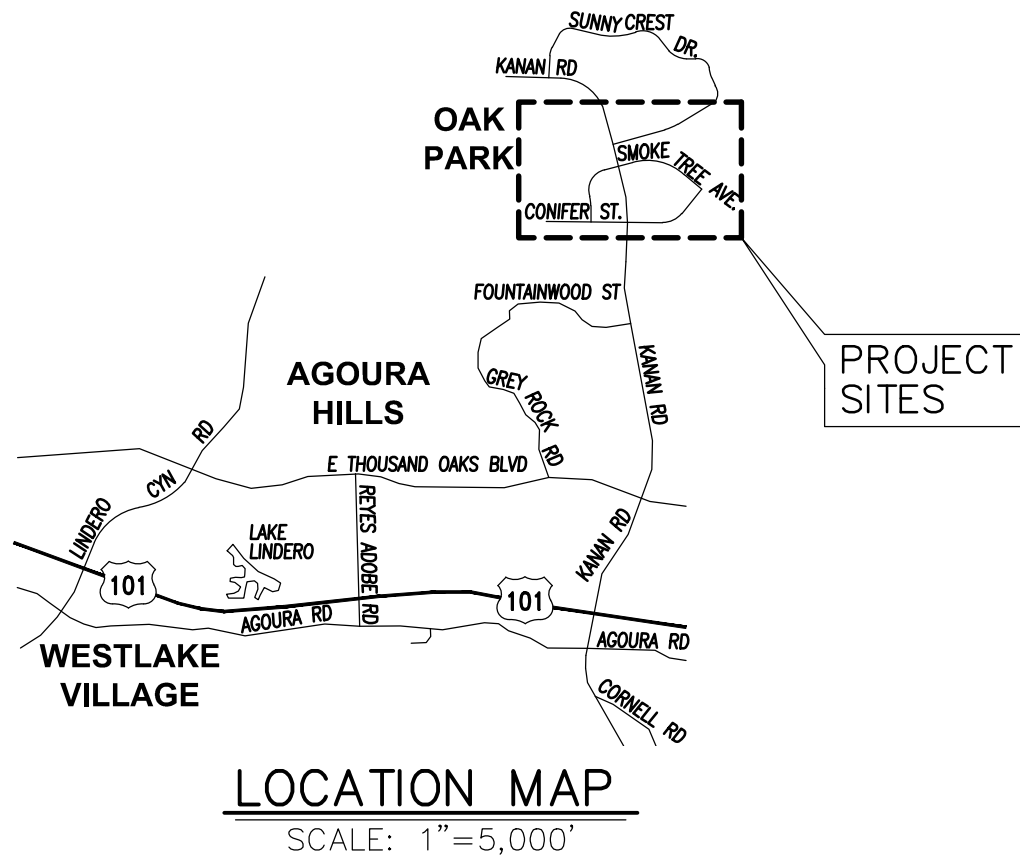
CALL USA/SC

FOR UNDERGROUND LOCATION

2 WORKING DAYS BEFORE YOU DIG



GENERAL PLAN
N.T.S.



LOCATION MAP
SCALE: 1"=5,000'

PROJECT SITE LOCATIONS

- 1 TAMARIND LANE AT MEDEA CREEK
- 2 SUNNYCREST DRIVE AND COUNTRYSIDE ROAD
- 3 CONIFER STREET AND SMOKE TREE AVENUE
- 4 MEDEA CREEK LANE AND SUNNYVISTA AVENUE (NORTH CORNER)
- 5 MEDEA CREEK LANE AND SUNNYVISTA AVENUE (SOUTH CORNER)
- 6 PARKVIEW DRIVE AND CONIFER STREET
- 7 SMOKE TREE AVENUE AT MEDEA CREEK
- 8 SOUTHRIDGE DRIVE AT MEDEA CREEK
- 9 MEDEA CREEK LANE (WEST SIDE)
- 10 MEDEA CREEK LANE (EAST SIDE)
- XX KANAN ROAD BIOFILTRATION BMPs

LEGEND

	R.O.W.
	SAWCUT
	SLOTTED PVC UNDERDRAIN PIPE
	SOLID WALL PVC DRAIN PIPE
	BIOFILTER
	FOREBAY
	RIPRAP
	PORTLAND CEMENT CONCRETE
	ASPHALT CONCRETE

EXISTING SYMBOLS:

	BOLLARD
	CABLE TV
	CHAINLINK FENCE
	EDGE OF PAVEMENT
	GATE
	ELECTRIC
	GRADE BREAK
	GUY WIRE
	NATURAL GAS
	OVERHEAD WIRE
	POWER POLE
	PROPERTY LINE
	SANITARY SEWER
	SIGN
	SLOPE
	STORM DRAIN
	STREET LIGHT
	TELEPHONE
	TRAFFIC SIGNAL
	VALVE
	VEGETATION
	WALL
	WATER

INDEX TO SHEETS

SHEET NO.	TITLE
1.	TITLE SHEET
2.	PLAN - KANAN ROAD BIOFILTRATION
3.	PLAN - KANAN ROAD BIOFILTRATION
4.	PLAN - SITES 1 & 2
5.	PLAN - SITES 3, 4, & 5
6.	PLAN - SITES 6 & 7
7.	PLAN - SITES 8, 9 & 10
8.	CONSTRUCTION DETAILS - BIOFILTRATION
9.	CONSTRUCTION DETAILS - BIOFILTRATION
10.	CONSTRUCTION DETAILS - MODULAR WETLANDS
11.	CONSTRUCTION DETAILS - MODULAR WETLANDS
12.	CONSTRUCTION DETAILS - MODULAR WETLANDS
13.	L1.1 PLANTING PLAN
14.	L1.2 PLANTING PLAN
15.	L1.3 PLANTING PLAN
16.	L2.1 IRRIGATION PLAN
17.	L2.2 IRRIGATION PLAN
18.	L2.3 IRRIGATION PLAN
19.	L2.4 IRRIGATION CALCULATIONS
20.	L3.1 LANDSCAPE DETAILS

LIST OF ABBREVIATIONS

AC	ASPHALT CONCRETE
APPROX.	APPROXIMATE
BEG	BEGIN
BTM	BOTTOM
C-C	CENTER-TO-CENTER
CLR	CLEAR
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CP	CONTROL POINT
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARDS
DIA	DIAMETER
(E) OR EX.	EXISTING
EA	EACH
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
EW	EACH WAY
FG	FINISH GRADE
FL	FLOWLINE
FT	FEET
GND	GROUND
H	HEIGHT
HORIZ	HORIZONTAL
IN	INCH OR INCHES
INV	INVERT
LF	LINEAR FEET
LOL	LAY OUT LINE
MAX	MAXIMUM
MIN	MINIMUM
NE	NORTHEASTERN
NW	NORTHWESTERN
OC	ON CENTER
OUT	OUTLET PIPE
PCC	PORTLAND CEMENT CONCRETE
PVC	POLY VINYL CHLORIDE
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
R/W OR R.O.W.	RIGHT OF WAY
REPL	REPLACE
SDR	STANDARD DIMENSION RATIO
SE	SOUTHEASTERN
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SQ.FT.	SQUARE FEET
STA	STATION
STD	STANDARD
STRU	STRUCTURE
SW	SOUTHWESTERN
TB	TOP OF BERM
TC	TOP OF CURB
TSPB	TRAFFIC SIGNAL PULLBOX
TVPB	COMMUNICATION/TELEVISION PULLBOX
TYP	TYPICAL
VERT	VERTICAL
VCWPD	VENTURA COUNTY WATERSHED PROTECTION DISTRICT
VCWW	VENTURA COUNTY WATERWORKS
VSM	VEGETATIVE SUPPORT MATERIAL
W/	WITH

INDEX OF STANDARD PLANS

USED BY REFERENCE

SPPWC STANDARD PLANS (2012 EDITION)

313-3	LOCAL DEPRESSIONS AT CATCH BASINS
113-2	SIDEWALK & DRIVEWAY REPLACEMENT
120-2	CURB AND GUTTER - BARRIER

VCWW WATER CONSTRUCTION STANDARDS 1996 EDITION)

2	VALVE BOX INSTALLATION
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COUNTY OF VENTURA ROAD STANDARDS

E-10g	TRENCH BEDDING AND BACKFILL IN EXISTING PAVEMENT
-------	--

OAK PARK GREEN STREETS URBAN RETROFIT

TITLE SHEET

SHEET 1

OF 20

DRAWING NO.

Y-4-84

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
WATERSHED PROTECTION DISTRICT

SPEC. NO.

WP15-12

PROJ. NO.

40540

GREGORY J. MUSSER

PROJECT ENGINEER

DATE:

R.C.E. 77,627

21456.01 12/15/2014

P&S W.O. PLAN DATE

DEPUTY DIRECTOR

DATE

DISTRICT DIRECTOR

DATE

AGENCY DIRECTOR

DATE



Penfield & Smith
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• Construction Management •

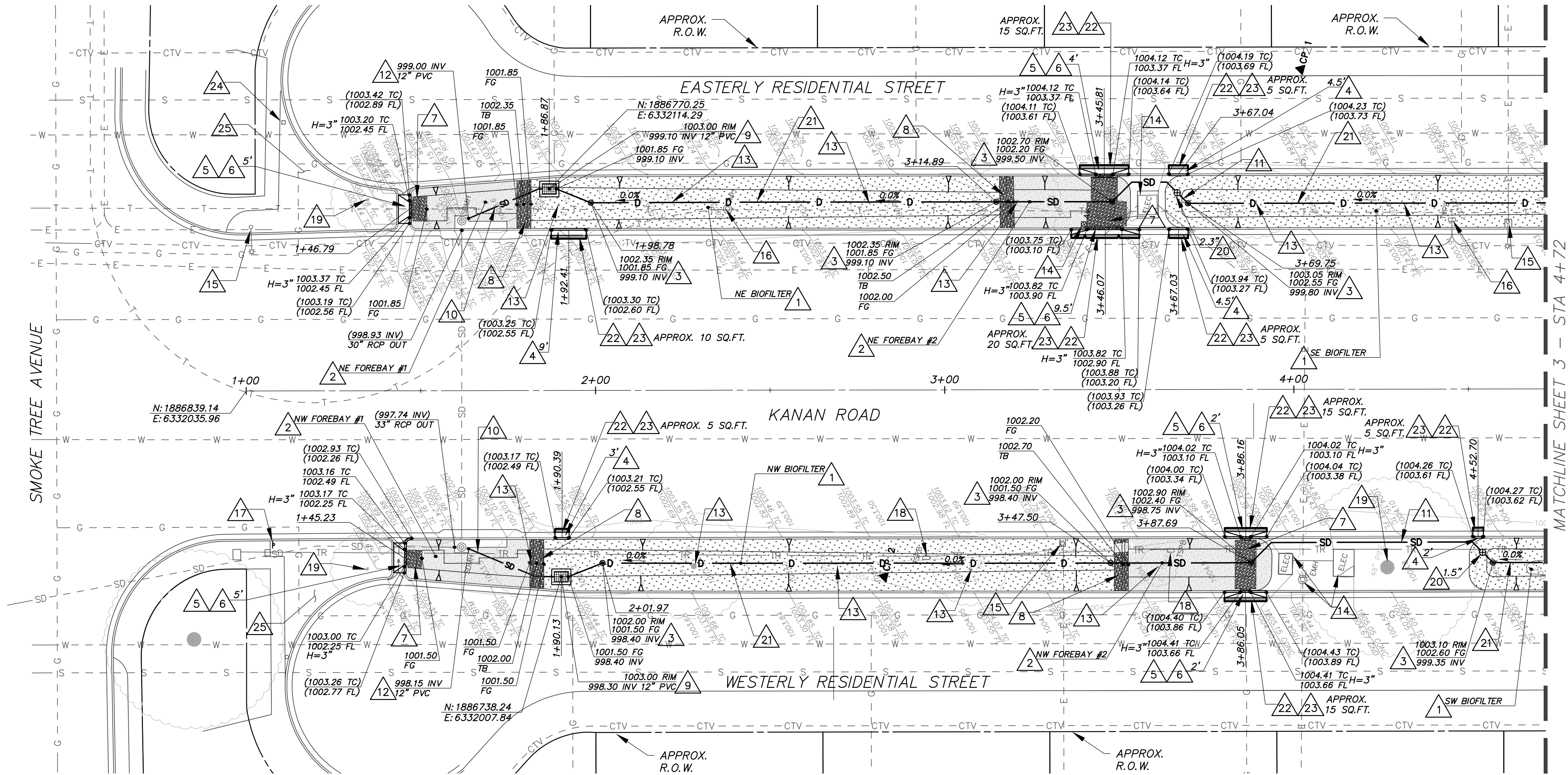
1327 Del Norte Road, Suite 200, Camarillo, CA 93010
Phone: (805) 981-0706 Fax: (805) 981-0251

SAVE DATE: 3/3/15 GUSSEY N:\2064\active\2064021456\21456\acad\Civil\21456.01_TITLE.dwg

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SEGMENT	START STA	START STA BOTTOM WIDTH, FT	END STA	END STA BOTTOM WIDTH, FT	UNDERDRAIN LAYER THICKNESS, IN	TOP PONDING SURFACE AREA, SQ.FT.	BOTTOM PONDING SURFACE AREA, SQ.FT.	PONDING DEPTH, IN	EXCAVATION VOLUME, CY	MEDIA VOLUME, CY
NE FOREBAY #1	1+50	7.0	1+78	7.0	—	350	175	6	30	—
NE BIOFILTER	1+89	9.5	3+16	6.5	12	2,000	1,080	8.4	240	70
NE FOREBAY #2	3+20	8.0	3+49	8.0	—	500	215	6	40	—
SE BIOFILTER	3+68	8.0	5+68	5.0	12	3,000	1,300	8.4	350	85
	5+72	8.0	7+35	5.0	20	2,450	1,150	6	300	750
	7+35	5.0	7+73	13.5	20	750	300	6	100	20
NW FOREBAY #1	1+49	5.0	1+81	8.0	—	400	150	6	35	—
NW BIOFILTER	1+92	8.0	3+49	4.0	16	2,400	1,000	12	285	65
NW FOREBAY #2	3+53	8.0	3+89	8.0	—	600	290	6	50	—
SW BIOFILTER	4+55	8.0	6+01	5.0	18	2,250	950	12	325	60
	6+05	8.0	7+21	5.0	26	1,750	800	6	275	675
	7+21	5.0	7+53	10.5	26	500	200	6	75	15

BIOFILTRATION BMP INFORMATION



KANAN ROAD BIOFILTRATION BMPs

EAST BIOFILTER – LONGITUDINAL SECTION VIEW

H
9

WEST BIOFILTER – LONGITUDINAL SECTION VIEW

I
9

CONSTRUCTION NOTES

- EXCAVATE EXISTING ROADSIDE MEDIAN AND CONSTRUCT BIOFILTER PER
- CONSTRUCT FOREBAY PER
- CONSTRUCT UNDERDRAIN CLEANOUT PER
- CONSTRUCT OVERFLOW CURB CUT PER
- CONSTRUCT CURB CUT INLET PER
- REMOVE EXISTING CURB AND GUTTER TO LIMITS SHOWN AND CONSTRUCT LOCAL DEPRESSION PER SPPWC STANDARD PLAN 313-3, CASE E, H=3-INCHES.
- CONSTRUCT CONCRETE AND RIP RAP FLUME PER
- CONSTRUCT RIP RAP SPILLWAY PER
- FURNISH AND INSTALL 36-INCH x 48-INCH BROOKS PRODUCTS OR JENSEN PRECAST, OR APPROVED EQUAL, BIOFILTER OUTLET STRUCTURE WITH ACCESS HATCH PER
- CONSTRUCT 12-INCH DIAMETER SDR 35 PVC STORM DRAIN PER DETAIL
- CONSTRUCT 6-INCH DIAMETER SDR 35 PVC STORM DRAIN PER
- CONNECT STORM DRAIN PIPE TO EXISTING CATCH BASIN WITH GPT LINK-SEAL DEVICE, OR APPROVED EQUAL, TO ENSURE WATERTIGHTNESS AT PIPE-WALL INTERFACE.
- REMOVE EXISTING TREE.
- PROTECT-IN-PLACE EXISTING ELECTRICAL INFRASTRUCTURE AT THE DIRECTION OF THE UTILITY OWNER.
- PROTECT-IN-PLACE EXISTING STREET LIGHT AND CONCRETE FOOTING.
- PROTECT-IN-PLACE EXISTING COMMUNICATIONS INFRASTRUCTURE AT THE DIRECTION OF THE UTILITY OWNER. VSM LAYER AND ADJACENT LANDSCAPING SHALL BE MOUNDED AROUND THE EXISTING MANHOLE OR PULLBOX AT A 3:1 MAX SLOPE.
- PROTECT-IN-PLACE EXISTING SIGN AND POST.
- ADJUST, LOWER, OR RELOCATE EXISTING TRAFFIC SIGNAL INFRASTRUCTURE AT THE DIRECTION OF THE COUNTY OF VENTURA TRANSPORTATION DEPARTMENT.
- PROTECT-IN-PLACE EXISTING TREE.
- CONSTRUCT 6-INCH VALTERRA KNIFE GATE VALVE, OR APPROVED EQUAL. VALVE BOX AND LID SHALL BE PER VCWW STANDARD PLATE NO. 2. VALVE SHALL BE SET PARTIALLY OPEN SUCH THAT THE DISK IS X-INCHES, PER PLAN, ABOVE THE BOTTOM OF THE BODY.
- CONSTRUCT 6-INCH DIAMETER SLOTTED SDR 35 PVC UNDERDRAIN PER
- SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT TO LIMITS SHOWN.
- CONSTRUCT ASPHALT CONCRETE PAVEMENT. MATCH EXISTING SECTION THICKNESS.
- PROTECT-IN-PLACE EXISTING MAILBOX.
- REMOVE EXISTING PLANTER LANDSCAPING – SEE LANDSCAPE AND IRRIGATION IMPROVEMENT PLANS FOR REPLACEMENT.



Penfield & Smith
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• Construction Management •

GREGORY J. MUSSER
PROJECT ENGINEER
DATE: 12/15/2014
R.C.E. 77,627

1327 Del Norte Road, Suite 200, Camarillo, CA 93010
Phone: (805) 981-0706 Fax: (805) 981-0251

21456.01 12/15/2014
P&S W.O. PLAN DATE

GJM
DESIGNED
PM
DRAWN
GJM
CHECKED

PROJECT MANAGER
DEPUTY DIRECTOR
DISTRICT DIRECTOR

DATE
DATE
DATE

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
WATERSHED PROTECTION DISTRICT

SPEC. NO.
WP15-12
PROJ. NO.
40540

OAK PARK GREEN STREETS URBAN RETROFIT
PLAN – KANAN ROAD BIOFILTRATION

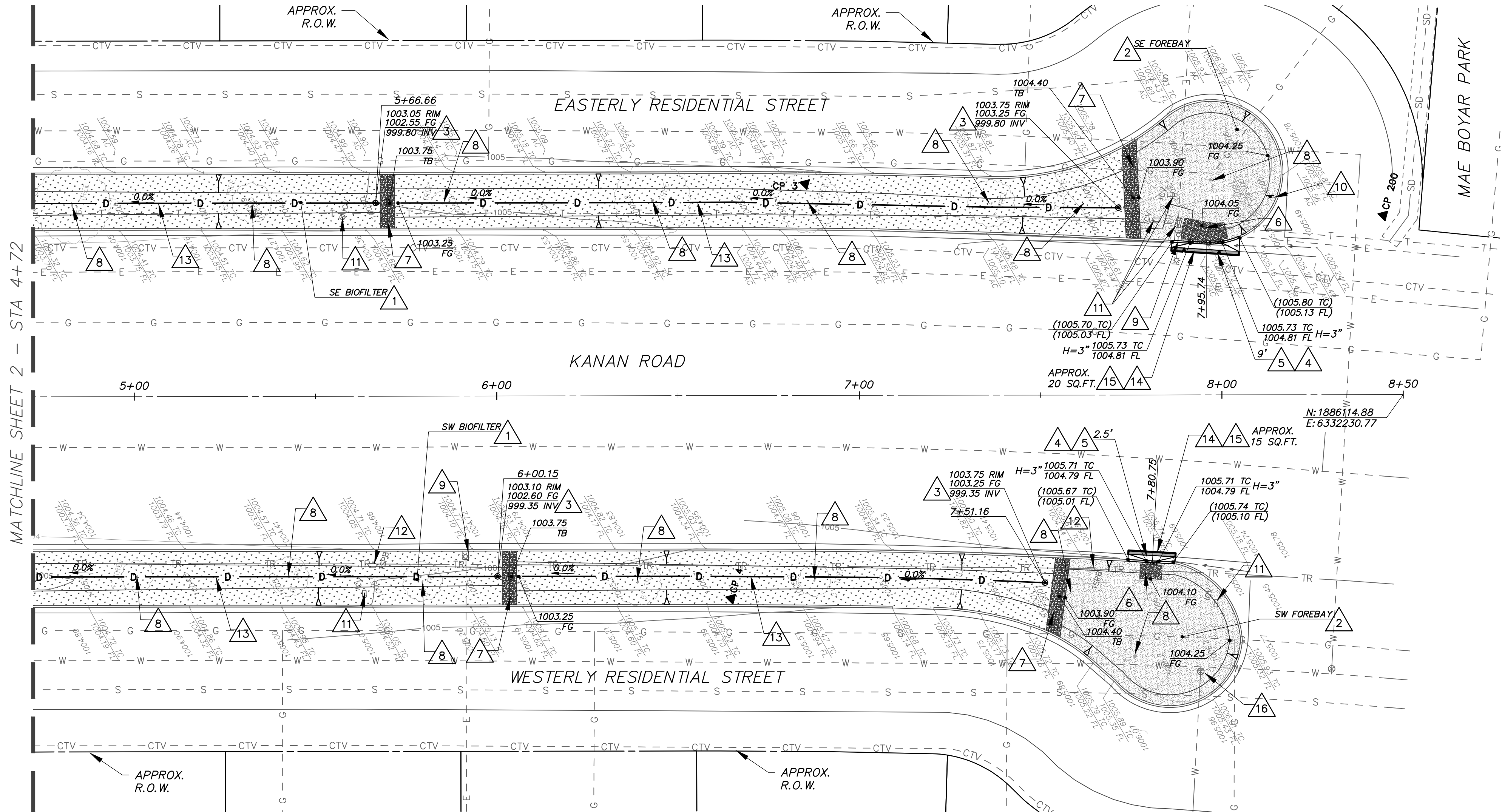
SHEET 2
OF 20
DRAWING NO.
Y-4-85

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SEGMENT	START STA	START STA BOTTOM WIDTH, FT	END STA	END STA BOTTOM WIDTH, FT	UNDERDRAIN LAYER THICKNESS, IN	TOP PONDING SURFACE AREA, SQ.FT.	BOTTOM PONDING SURFACE AREA, SQ.FT.	PONDING DEPTH, IN	EXCAVATION VOLUME, CY	MEDIA VOLUME, CY
SE BIOFILTER	3+68	8.0	5+68	5.0	12	3,000	1,300	8.4	350	85
	5+72	8.0	7+35	5.0	20	2,450	1,150	6	300	70
	7+35	5.0	7+73	13.5	20	750	300	6	100	20
SE FOREBAY	7+77	21.0	8+12	0.0	—	1,250	950	6	90	—
SW BIOFILTER	4+55	8.0	6+01	5.0	18	2,250	950	12	325	60
	6+05	8.0	7+21	5.0	26	1,750	800	6	275	50
	7+21	5.0	7+53	10.5	26	500	200	6	75	15
SW FOREBAY	7+57	15.5	7+88	0.0	—	1,500	1,170	6	110	—

BIOFILTRATION BMP INFORMATION



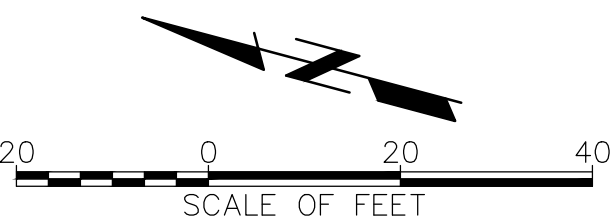
CONSTRUCTION NOTES

- EXCAVATE EXISTING ROADSIDE MEDIAN AND CONSTRUCT BIOFILTER PER
- CONSTRUCT FOREBAY PER
- CONSTRUCT UNDERDRAIN CLEANOUT PER
- CONSTRUCT CURB CUT INLET PER
- REMOVE EXISTING CURB AND GUTTER TO LIMITS SHOWN AND CONSTRUCT LOCAL DEPRESSION PER SPPWC STANDARD PLAN 313-3, CASE E, H=3-INCHES.
- CONSTRUCT CONCRETE AND RIP RAP FLUME PER
- CONSTRUCT RIP RAP SPILLWAY PER
- REMOVE EXISTING TREE.
- PROTECT-IN-PLACE EXISTING STREET LIGHT AND CONCRETE FOOTING.
- PROTECT-IN-PLACE EXISTING SIGN AND POST.
- EXISTING IRRIGATION INFRASTRUCTURE – SEE IRRIGATION AND LANDSCAPE IMPROVEMENT PLANS FOR DIRECTION.
- ADJUST, LOWER, OR RELOCATE EXISTING TRAFFIC SIGNAL INFRASTRUCTURE AT THE DIRECTION OF THE COUNTY OF VENTURA TRANSPORTATION DEPARTMENT.
- CONSTRUCT 6-INCH DIAMETER SLOTTED SDR 35 PVC UNDERDRAIN PER
- SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT TO LIMITS SHOWN.
- CONSTRUCT ASPHALT CONCRETE PAVEMENT. MATCH EXISTING SECTION THICKNESS.
- ADJUST EXISTING WATER VALVE BOX AND LID TO FINISHED GRADE PER VCWW STANDARD PLATE NO. 2.

KANAN ROAD BIOFILTRATION BMPs

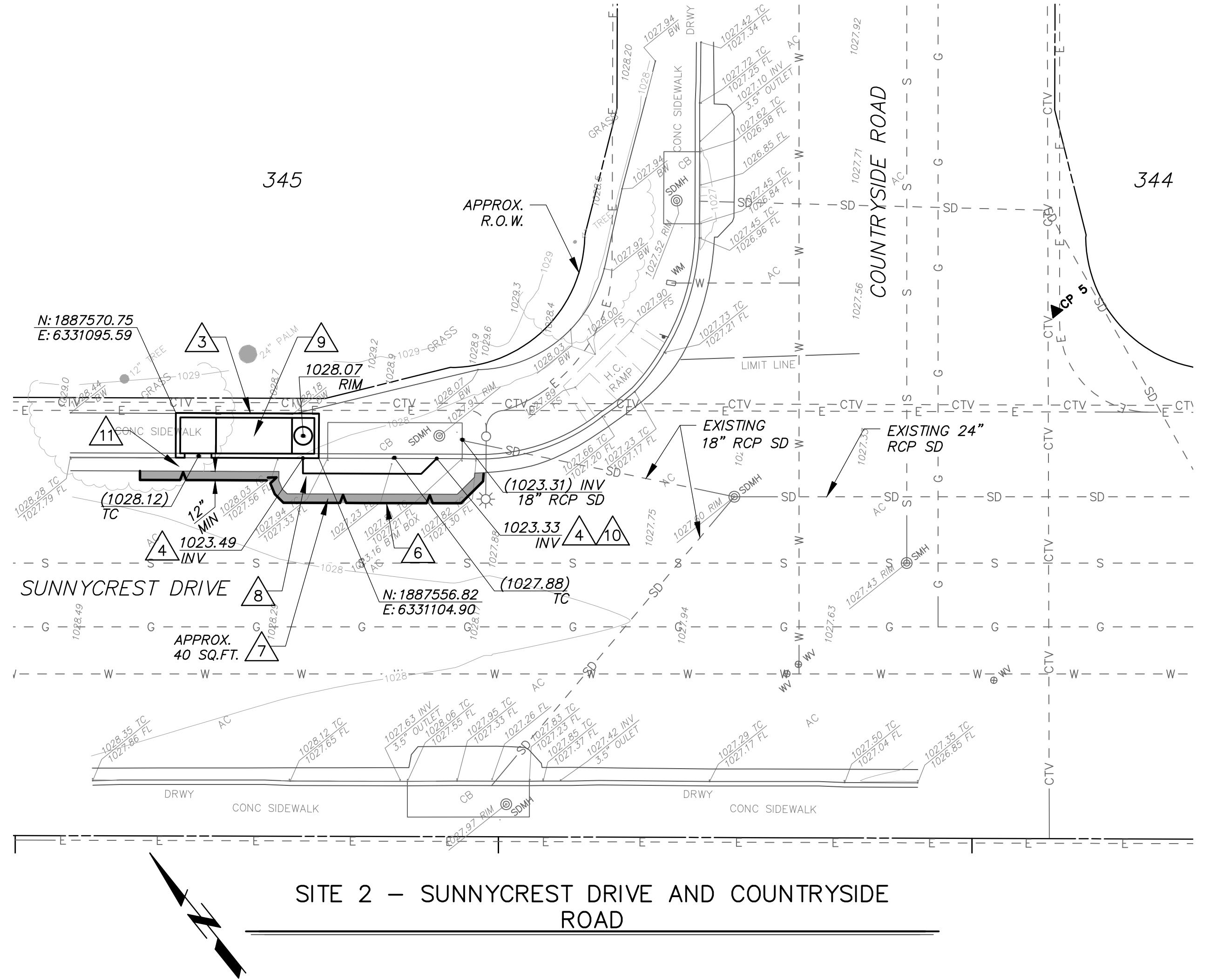
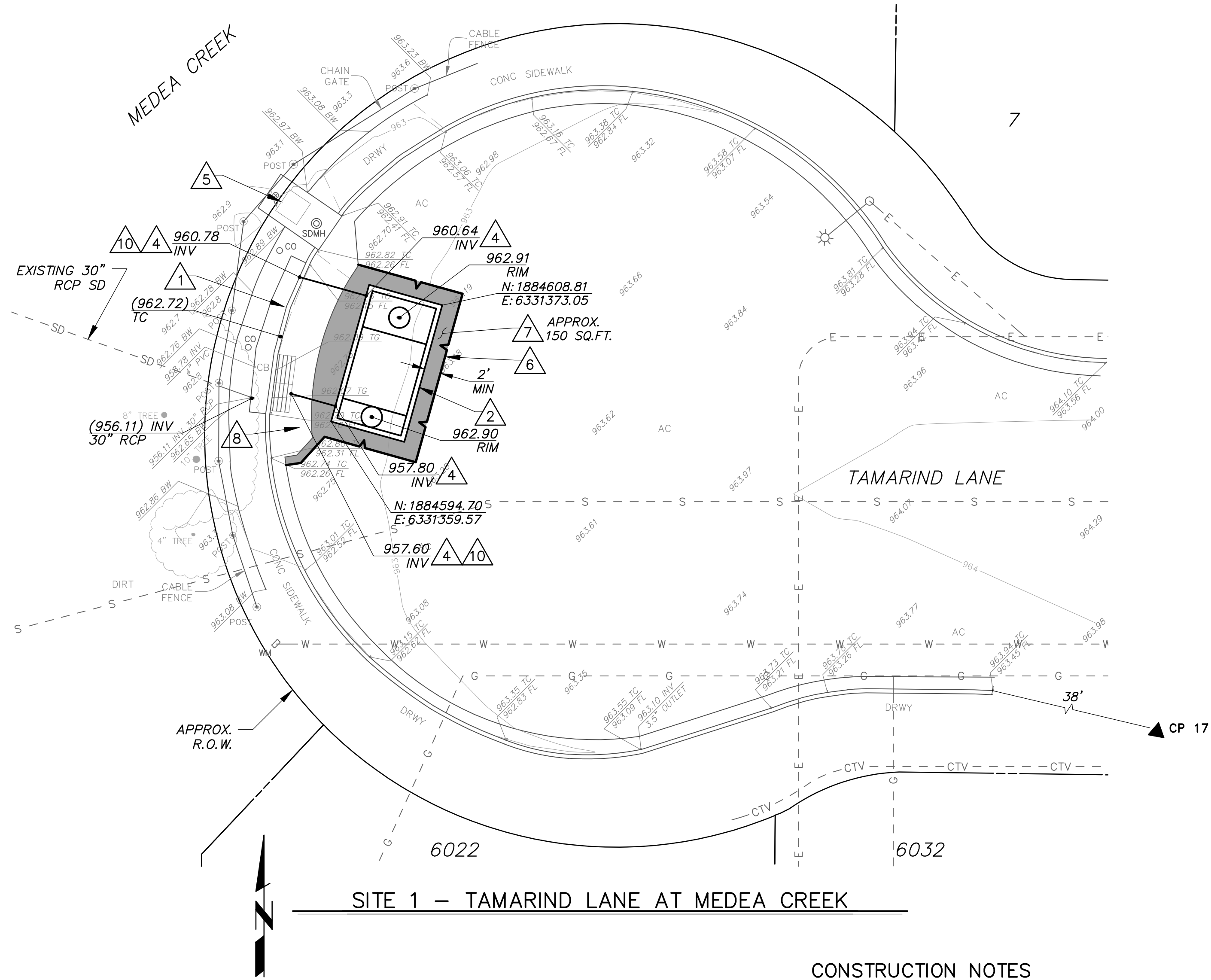
EAST BIOFILTER – LONGITUDINAL SECTION VIEW

WEST BIOFILTER – LONGITUDINAL SECTION VIEW

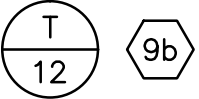
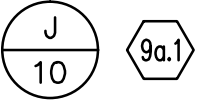
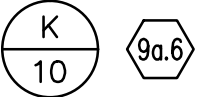
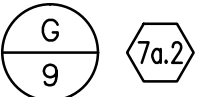


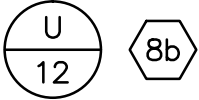
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D C B A △	REVISION DESCRIPTION APP. DATE	Penfield & Smith Engineering • Surveying • Planning • Construction Management • 1327 Del Norte Road, Suite 200, Camarillo, CA 93010 Phone: (805) 981-0706 Fax: (805) 981-0251	GREGORY J. MUSSER PROJECT ENGINEER DATE: 12/15/2014 R.C.E. 77,627 P&S W.O. PLAN DATE	GJM DESIGNED PM DRAWN CHECKED	PROJECT MANAGER DEPUTY DIRECTOR DISTRICT DIRECTOR	COUNTY OF VENTURA PUBLIC WORKS AGENCY WATERSHED PROTECTION DISTRICT	SPEC. NO. WP15-12 PROJ. NO. 40540	OAK PARK GREEN STREETS URBAN RETROFIT PLAN – KANAN ROAD BIOFILTRATION	SHEET 3 OF 20 DRAWING NO. Y-4-86
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CONSTRUCTION NOTES

- FURNISH AND INSTALL FIBERGLASS DVERT TROUGH IN EXISTING CATCH BASIN PER MANUFACTURER'S RECOMMENDATION. SEE 
- FURNISH AND INSTALL 8'x16' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND VAULT UNIT (OR APPROVED EQUAL) WITH VEHICLE TRAFFIC RATED CONCRETE TOP PER MANUFACTURER'S RECOMMENDATION. SEE 
- FURNISH AND INSTALL 4'x15' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND CURB UNIT (OR APPROVED EQUAL) WITH PEDESTRIAN TRAFFIC RATED CONCRETE TOP PER MANUFACTURERS RECOMMENDATION. SEE 
- CONSTRUCT 8" DIAMETER SDR 35 PVC STORM DRAIN AT MINIMUM 1% SLOPE. FURNISH AND INSTALL APPROPRIATE BENDS/FITTINGS AS NEEDED TO CONSTRUCT PER PLAN. SEE 
- ABANDON-IN-PLACE EXISTING FILTERRA TREATMENT DEVICE.
- SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT TO LIMITS SHOWN.
- CONSTRUCT ASPHALT CONCRETE PAVEMENT. MATCH EXISTING SECTION THICKNESS. 
- RECONSTRUCT EXISTING CONCRETE LOCAL DEPRESSION TO NEAREST JOINT PER SPPWC STANDARD PLAN 313-3. 
- SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING CONCRETE SIDEWALK AND CURB & GUTTER TO NEAREST JOINT. RECONSTRUCT SIDEWALK AND CURB & GUTTER AS NECESSARY PER SPPWC STANDARD PLAN 113-2 & 120-2.
- CONNECT STORM DRAIN PIPE TO EXISTING CATCH BASIN WITH GPT LINK-SEAL DEVICE, OR APPROVED EQUAL, TO ENSURE WATERTIGHTNESS AT PIPE-WALL INTERFACE. 

- CONSTRUCT CONCRETE LOCAL DEPRESSION PER SPPWC STANDARD PLAN 313-3, CASE E. SEE 



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SAVE DATE: 3/3/15 MUSSER V:\2064\active\2064021456\21456\acad\Civil\21456.01_MODWET.dwg



Penfield & Smith
Engineering • Surveying • Planning
• Construction Management •

GREGORY J. MUSSER
PROJECT ENGINEER
DATE: 12/15/2014
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Phone: (805) 981-0706 Fax: (805) 981-0251

21456.01 12/15/2014
P&S W.O. PLAN DATE

GJM
DESIGNED
PM
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PROJECT MANAGER
DEPUTY DIRECTOR
DISTRICT DIRECTOR

DATE
DATE
DATE

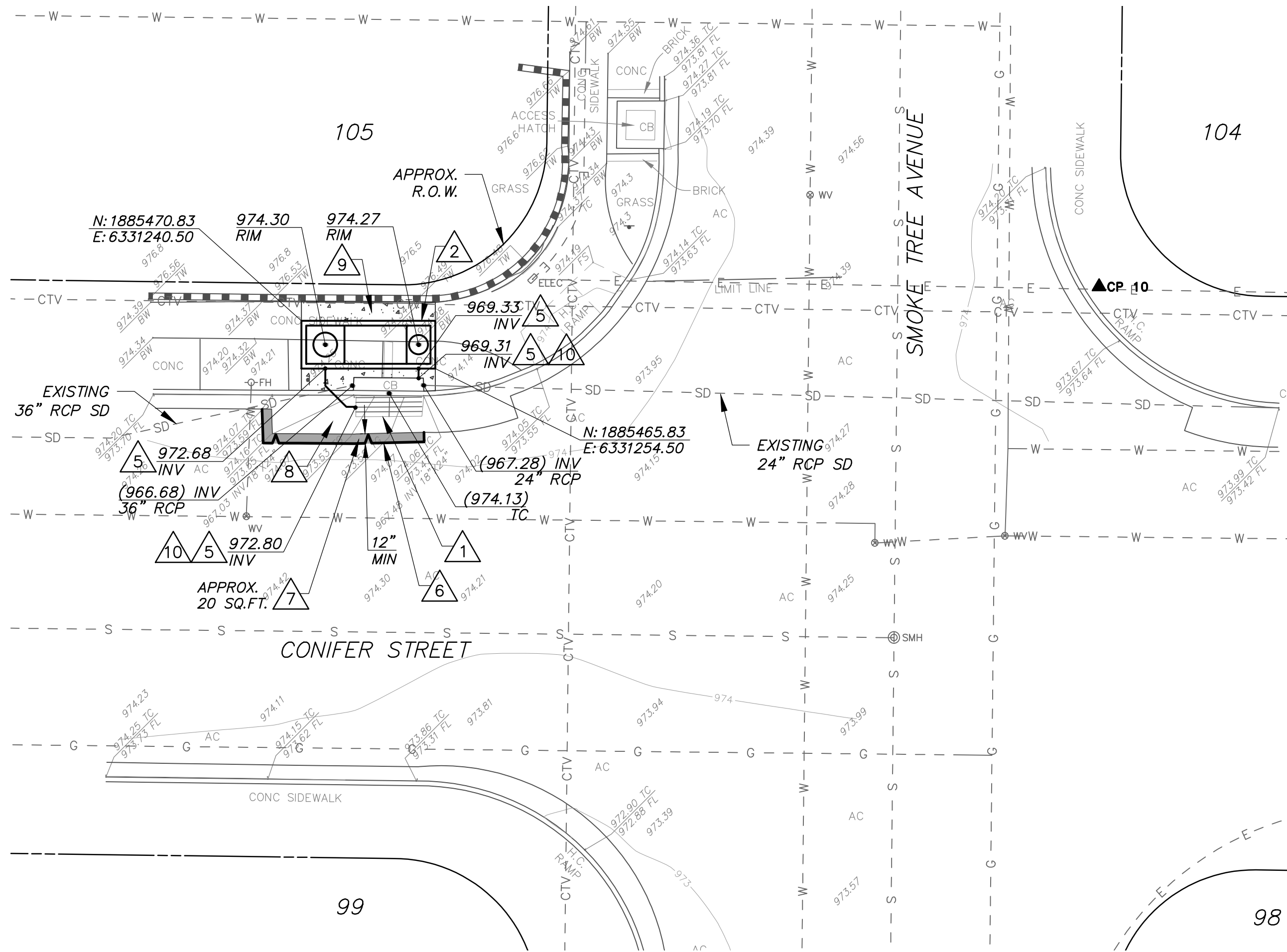
COUNTY OF VENTURA
PUBLIC WORKS AGENCY
WATERSHED PROTECTION DISTRICT

SPEC. NO.
WP15-12
PROJ. NO.
40540

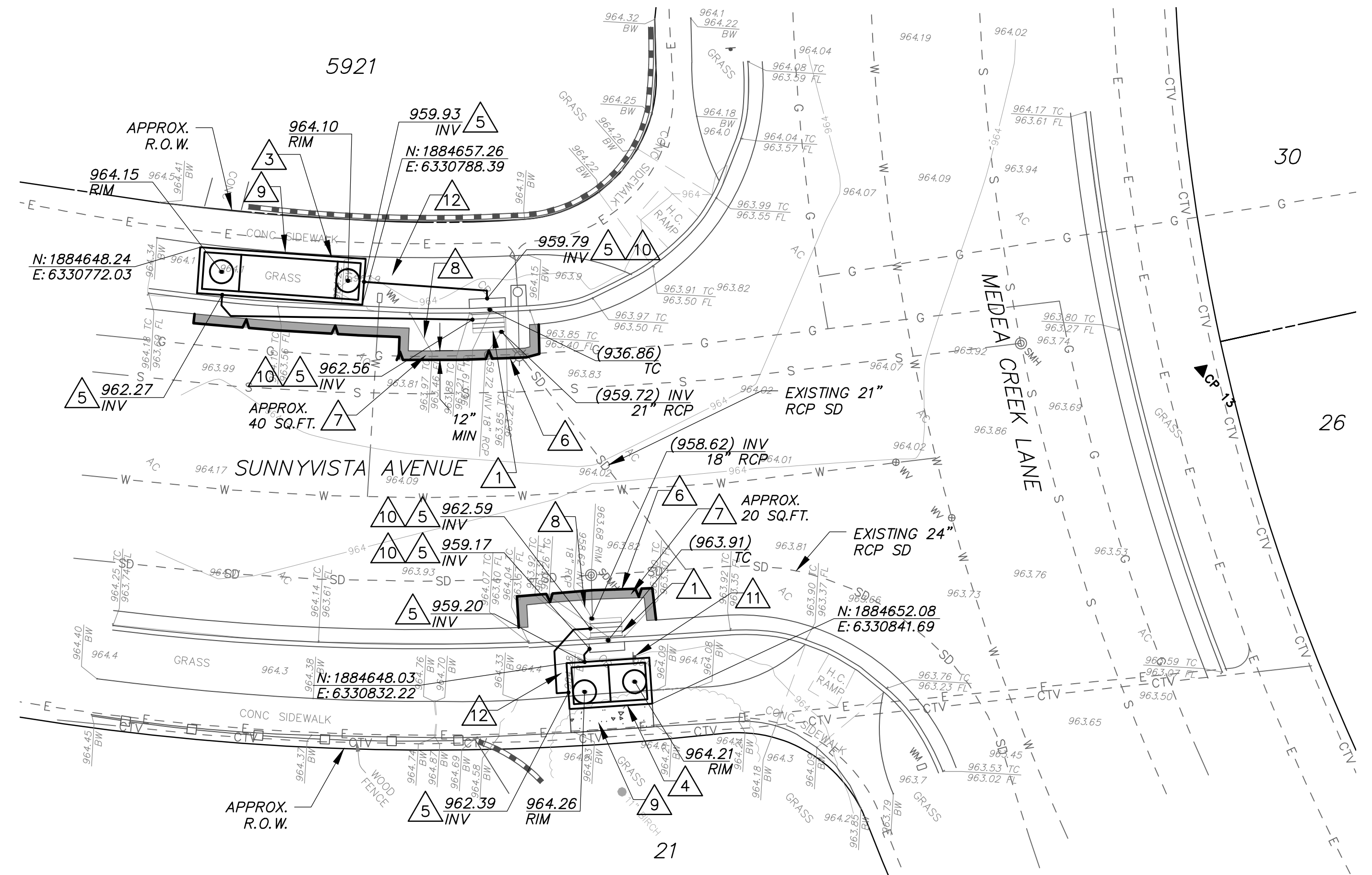
OAK PARK GREEN STREETS URBAN RETROFIT

PLAN - SITES 1 & 2

SHEET 4
OF 20
DRAWING NO.
Y-4-87



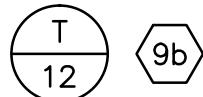
SITE 3 – CONIFER STREET AND SMOKE TREE AVENUE



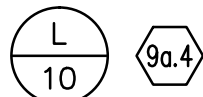
SITE 4 & 5 – MEDEA CREEK LANE AND SUNNYVISTA AVENUE

CONSTRUCTION NOTES

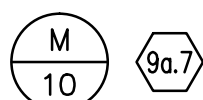
1. FURNISH AND INSTALL FIBERGLASS DVERT TROUGH IN EXISTING CATCH BASIN PER MANUFACTURER'S RECOMMENDATION. SEE



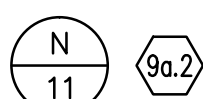
2. FURNISH AND INSTALL 4'X13' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND VAULT UNIT (OR APPROVED EQUAL) WITH PEDESTRIAN TRAFFIC RATED CONCRETE TOP PER MANUFACTURERS RECOMMENDATION. SEE



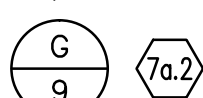
3. FURNISH AND INSTALL 4'X17' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND VAULT UNIT (OR APPROVED EQUAL) WITH PEDESTRIAN TRAFFIC RATED CONCRETE TOP PER MANUFACTURERS RECOMMENDATION. SEE



4. FURNISH AND INSTALL 4'X8' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND VAULT UNIT (OR APPROVED EQUAL) WITH PEDESTRIAN TRAFFIC RATED CONCRETE TOP PER MANUFACTURERS RECOMMENDATION. SEE



5. CONSTRUCT 8" DIAMETER SDR 35 PVC STORM DRAIN AT MINIMUM 1% SLOPE. FURNISH AND INSTALL APPROPRIATE BENDS/FITTINGS AS NEEDED TO CONSTRUCT PER PLAN. SEE



6. SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT TO LIMITS SHOWN.
7. CONSTRUCT ASPHALT CONCRETE PAVEMENT. MATCH EXISTING SECTION THICKNESS. (8e)
8. RECONSTRUCT EXISTING CONCRETE LOCAL DEPRESSION TO NEAREST JOINT PER SPPWC STANDARD PLAN 313-3. (8b)
9. SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING CONCRETE SIDEWALK AND CURB & GUTTER TO NEAREST JOINT. RECONSTRUCT SIDEWALK AND CURB & GUTTER AS NECESSARY PER SPPWC STANDARD PLAN 113-2 & 120-2.
10. CONNECT STORM DRAIN PIPE TO EXISTING CATCH BASIN WITH GPT LINK-SEAL DEVICE, OR APPROVED EQUAL, TO ENSURE WATERTIGHTNESS AT PIPE-WALL INTERFACE. (7c)
11. RELOCATE EXISTING SIGN AND POST.
12. REMOVE EXISTING LANDSCAPING AND RELOCATE EXISTING IRRIGATION AS REQUIRED FOR NEW CONSTRUCTION.



SAVE DATE: 3/3/15 MUSSER V:\2064\active\2064021456\21456\acad\Civil\21456.01_MODWET.dwg

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P&S W.O. PLAN DATE

GREGORY J. MUSSER
PROJECT ENGINEER
DATE: 77,627
R.C.E.

GJM
DESIGNED
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DRAWN
CHECKED

PROJECT MANAGER DATE
DEPUTY DIRECTOR DATE
DISTRICT DIRECTOR DATE

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
WATERSHED PROTECTION DISTRICT

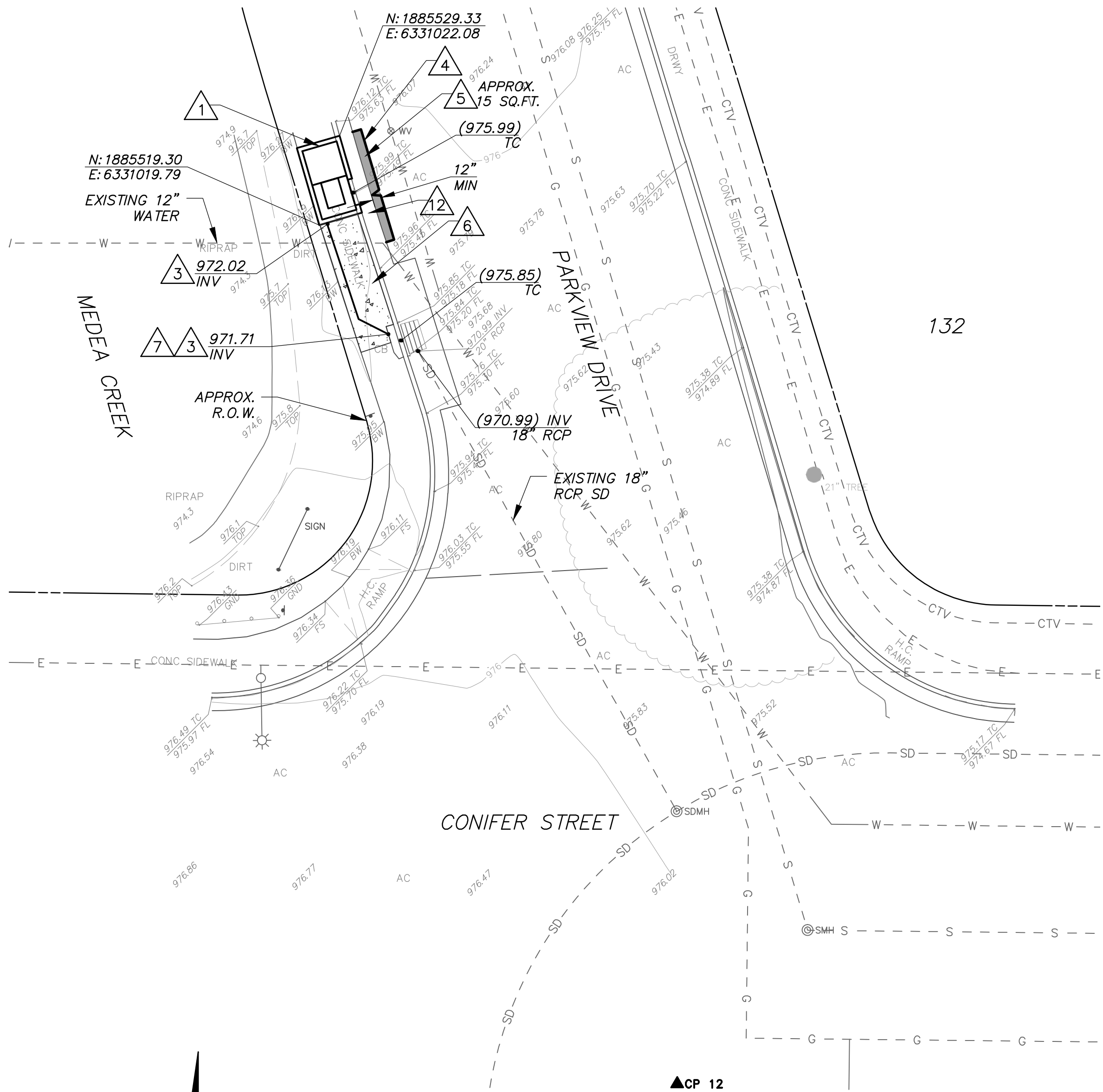
SPEC. NO.
WP15-12
PROJ. NO.
40540

OAK PARK GREEN STREETS URBAN RETROFIT

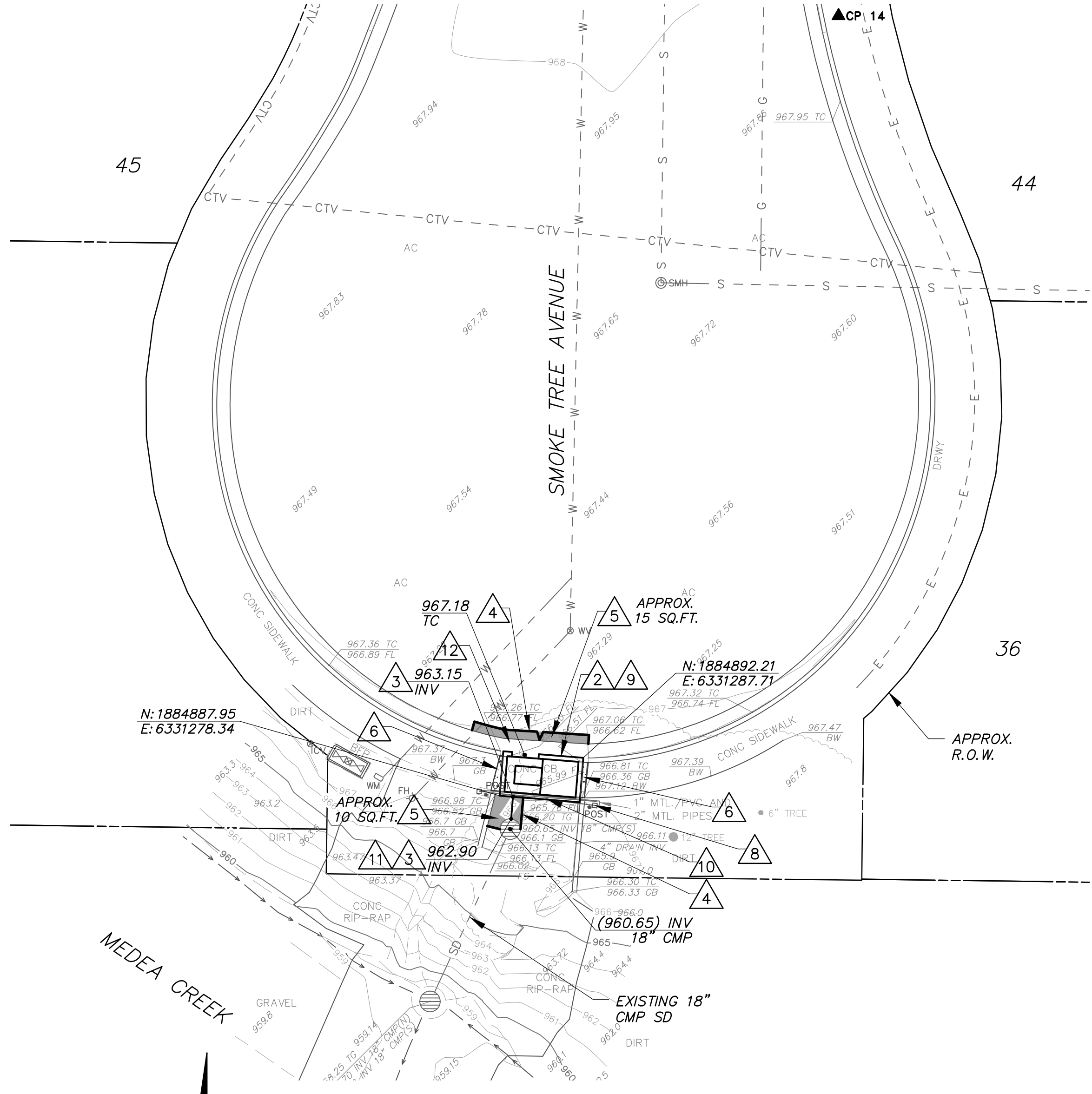
PLAN – SITES 3, 4, & 5

SHEET 5
OF 20
DRAWING NO.
Y-4-88

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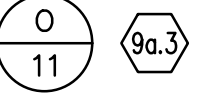
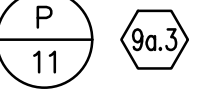
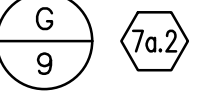
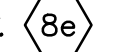
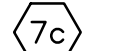


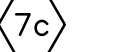
SITE 6 – PARKVIEW DRIVE AND CONIFER STREET

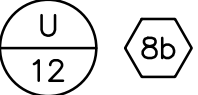


SITE 7 – SMOKE TREE AVENUE AT MEDEA CREEK

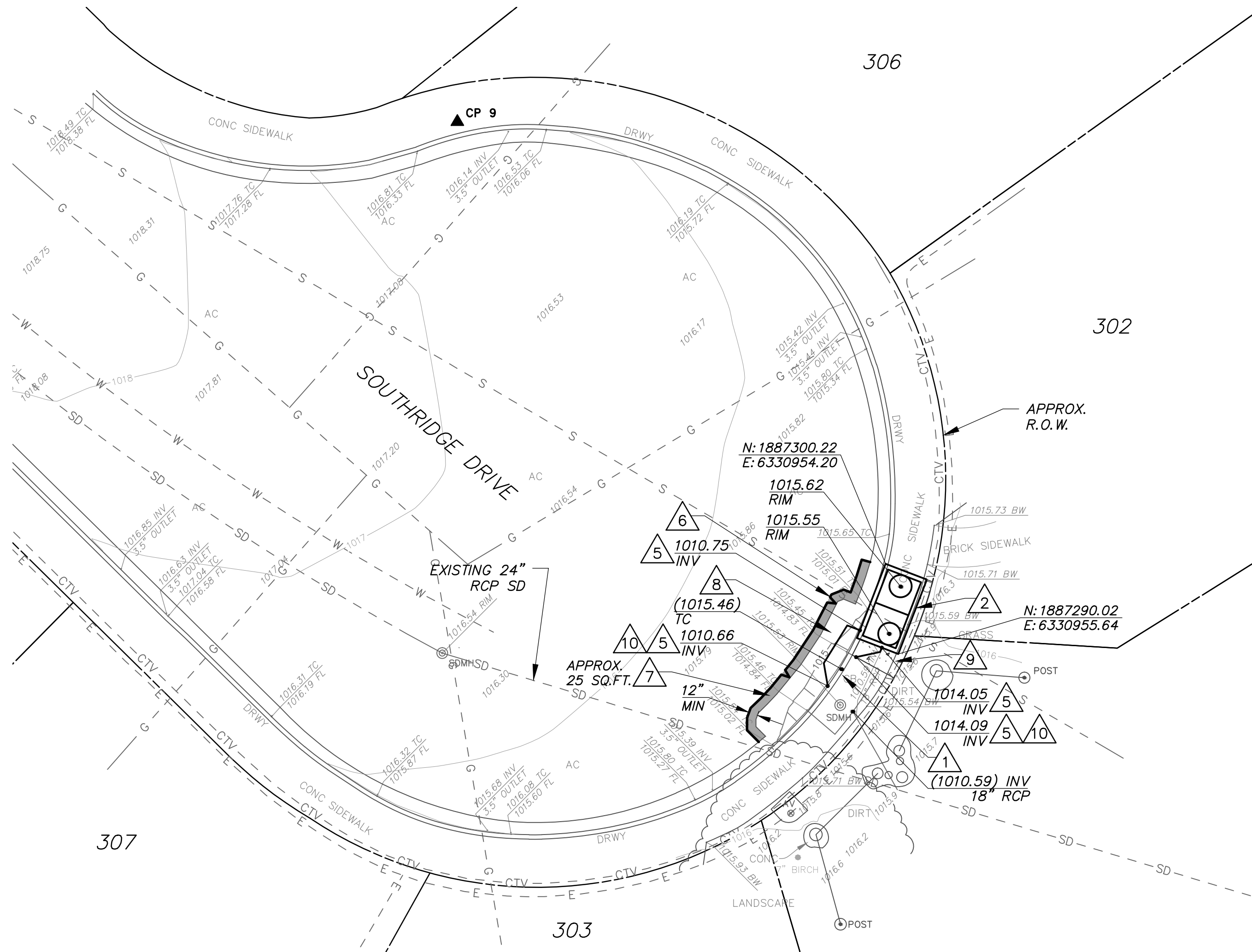
CONSTRUCTION NOTES

- FURNISH AND INSTALL 4'x8' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND CURB UNIT (OR APPROVED EQUAL) WITH PEDESTRIAN TRAFFIC RATED CONCRETE TOP PER MANUFACTURERS RECOMMENDATION. SEE .
- FURNISH AND INSTALL 4'x8' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND CURB UNIT (OR APPROVED EQUAL) WITH PEDESTRIAN TRAFFIC RATED CONCRETE TOP PER MANUFACTURERS RECOMMENDATION. SEE .
- CONSTRUCT 8" DIAMETER SDR 35 PVC STORM DRAIN AT MINIMUM 1% SLOPE. FURNISH AND INSTALL APPROPRIATE BENDS/FITTINGS AS NEEDED TO CONSTRUCT PER PLAN. SEE .
- SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT TO LIMITS SHOWN.
- CONSTRUCT ASPHALT CONCRETE PAVEMENT. MATCH EXISTING SECTION THICKNESS. .
- SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING CONCRETE SIDEWALK AND CURB & GUTTER TO NEAREST JOINT. RECONSTRUCT SIDEWALK AND CURB & GUTTER AS NECESSARY PER SPPWC STANDARD PLAN 113-2 & 120-2.
- CONNECT STORM DRAIN PIPE TO EXISTING CATCH BASIN WITH GPT LINK-SEAL DEVICE, OR APPROVED EQUAL, TO ENSURE WATERTIGHTNESS AT PIPE-WALL INTERFACE. .
- RELOCATE EXISTING SIGN AND POST.

- REMOVE EXISTING FLOW-THROUGH CURB OPENING.
- AFFIX EXISTING ABOVE-GROUND UTILITY LINES TO MODULAR WETLAND DEVICE.
- CONNECT STORM DRAIN PIPE TO EXISTING CORRUGATED METAL STANDPIPE WITH APPROPRIATE PVC-TO-CORRUGATED PIPE FITTING. .

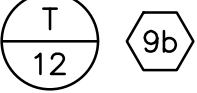
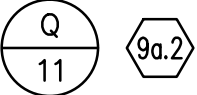
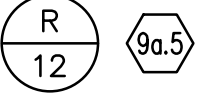
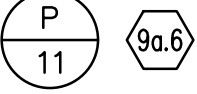
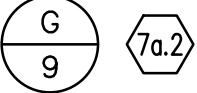
- CONSTRUCT CONCRETE LOCAL DEPRESSION PER SPPWC STANDARD PLAN 313-3, CASE E. SEE .

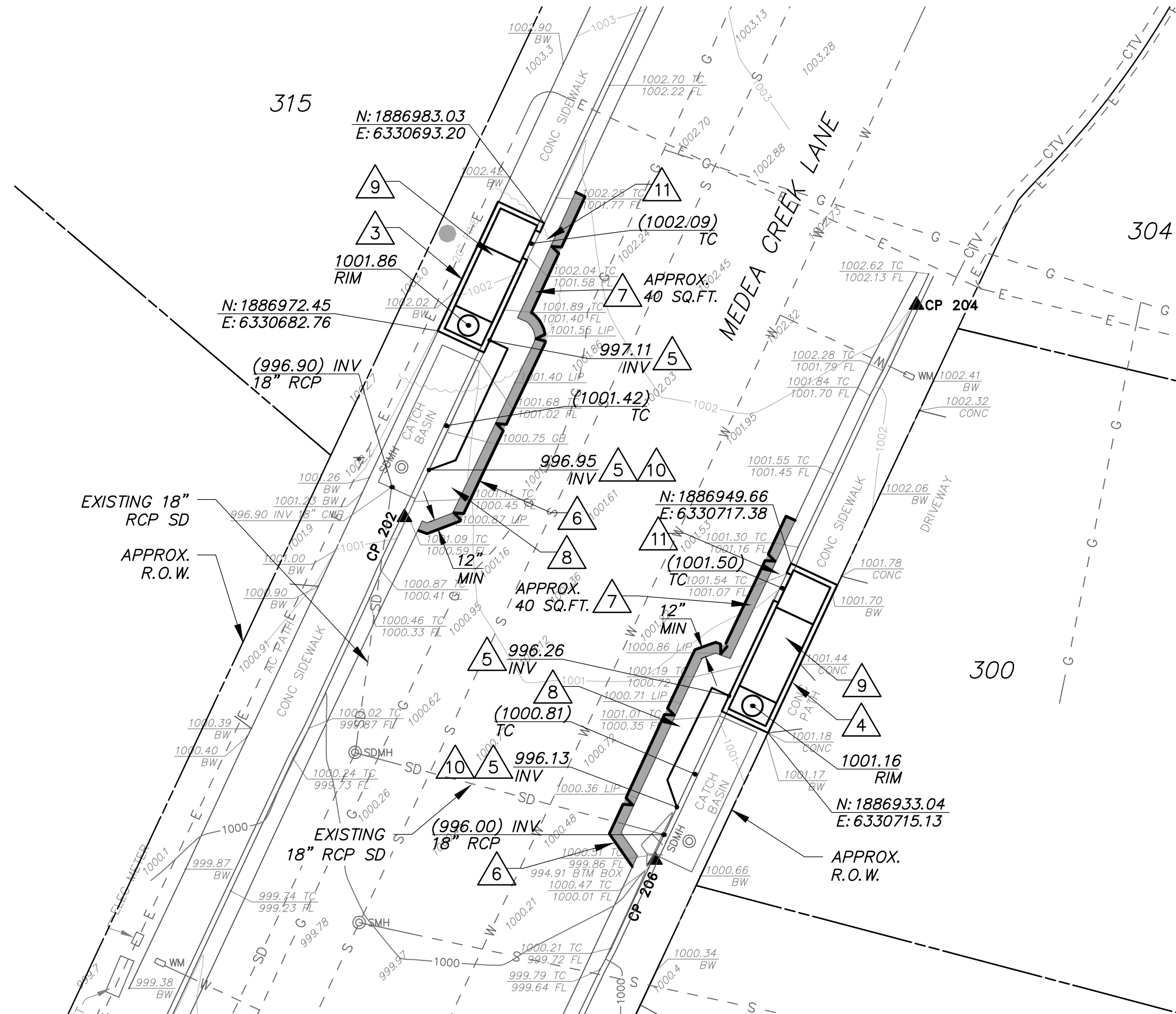




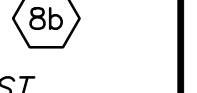
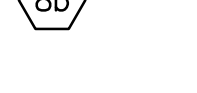
SITE 8 – SOUTHRIDGE DRIVE AT MEDEA CREEK

CONSTRUCTION NOTES

- FURNISH AND INSTALL FIBERGLASS DVERT TROUGH IN EXISTING CATCH BASIN PER MANUFACTURER'S RECOMMENDATION. SEE 
- FURNISH AND INSTALL 4'X8' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND VAULT UNIT (OR APPROVED EQUAL) WITH PEDESTRIAN TRAFFIC RATED CONCRETE TOP PER MANUFACTURERS RECOMMENDATION. SEE 
- FURNISH AND INSTALL 4'X13' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND CURB UNIT (OR APPROVED EQUAL) WITH PEDESTRIAN TRAFFIC RATED CONCRETE TOP PER MANUFACTURERS RECOMMENDATION. SEE 
- FURNISH AND INSTALL 4'X15' (INTERIOR DIMENSIONS) LINEAR MODULAR WETLAND CURB UNIT (OR APPROVED EQUAL) WITH PEDESTRIAN TRAFFIC RATED CONCRETE TOP PER MANUFACTURERS RECOMMENDATION. SEE 
- CONSTRUCT 8" DIAMETER SDR 35 PVC STORM DRAIN AT MINIMUM 1% SLOPE. FURNISH AND INSTALL APPROPRIATE BENDS/FITTINGS AS NEEDED TO CONSTRUCT PER PLAN. SEE 



SITE 9 & 10 – MEDEA CREEK LANE

- SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT TO LIMITS SHOWN.
- CONSTRUCT ASPHALT CONCRETE PAVEMENT. MATCH EXISTING SECTION THICKNESS. 
- RECONSTRUCT EXISTING CONCRETE LOCAL DEPRESSION TO NEAREST JOINT PER SPPWC STANDARD PLAN 313-3. 
- SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING CONCRETE SIDEWALK AND CURB & GUTTER TO NEAREST JOINT. RECONSTRUCT SIDEWALK AND CURB & GUTTER AS NECESSARY PER SPPWC STANDARD PLAN 113-2 & 120-2.
- CONNECT STORM DRAIN PIPE TO EXISTING CATCH BASIN WITH GPT LINK-SEAL DEVICE, OR APPROVED EQUAL, TO ENSURE WATERTIGHTNESS AT PIPE-WALL INTERFACE. 
- CONSTRUCT CONCRETE LOCAL DEPRESSION PER SPPWC STANDARD PLAN 313-3, CASE E. SEE 



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GREGORY J. MUSSER
PROJECT ENGINEER
DATE: 12/15/2014
R.C.E. 77,627

1327 Del Norte Road, Suite 200, Camarillo, CA 93010
Phone: (805) 981-0706 Fax: (805) 981-0251

21456.01 12/15/2014
P&S W.O. PLAN DATE

GJM
DESIGNED
PM
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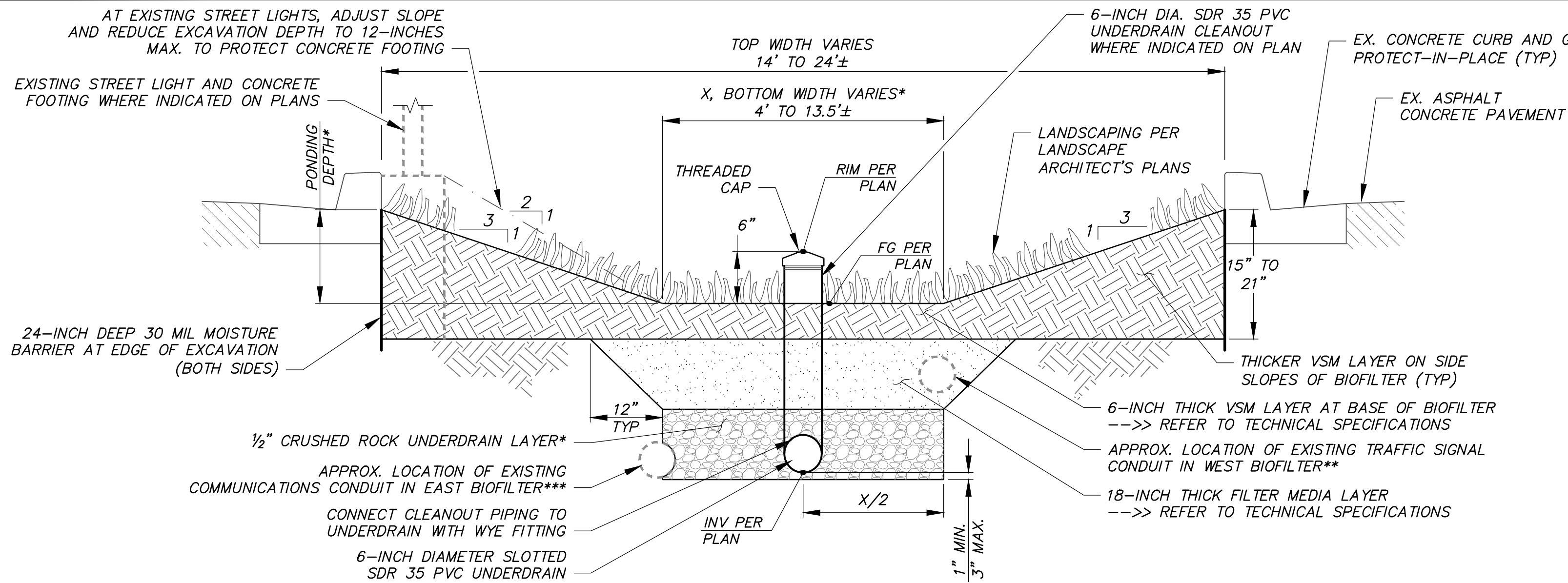
PROJECT MANAGER DATE
DEPUTY DIRECTOR DATE
DISTRICT DIRECTOR DATE

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
WATERSHED PROTECTION DISTRICT

SPEC. NO.
WP15-12
PROJ. NO.
40540

OAK PARK GREEN STREETS URBAN RETROFIT
PLAN – SITES 8, 9, & 10

SHEET 7
OF 20
DRAWING NO.
Y-4-90



*NOTE: UNDERDRAIN LAYER THICKNESS, PONDING DEPTH, AND BIOFILTER BOTTOM WIDTH IS DETAILED IN THE "BIOFILTRATION BMP INFORMATION" TABLES ON SHEETS 2 AND 3.

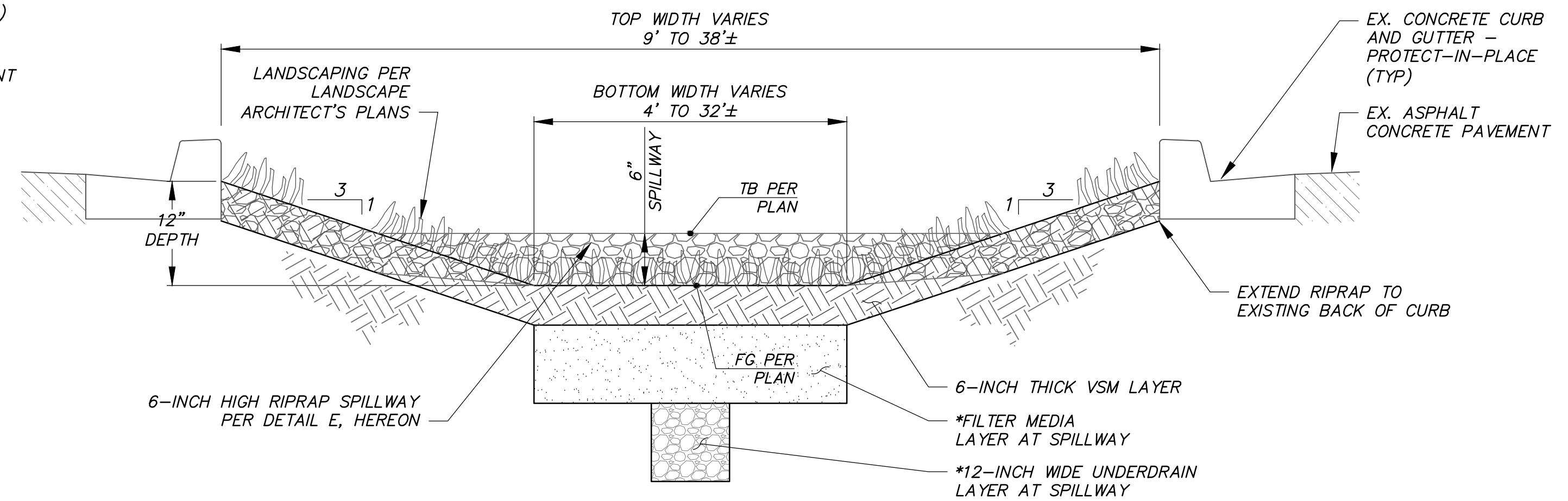
CRUSHED ROCK MATERIAL SHALL BE CONFIRMED ONCE FINAL MEDIA GRADATION IS CONFIRMED

**NOTE: ADJUST, LOWER, OR RELOCATE EXISTING TRAFFIC SIGNAL CONDUIT AS NECESSARY TO MAINTAIN MINIMUM 30-INCHES OF COVER FROM FINISHED GRADE IN ACCORDANCE WITH THE COUNTY OF VENTURA TRANSPORTATION DEPARTMENT GUIDELINES.

***NOTE: PROTECT EXISTING COMMUNICATIONS INFRASTRUCTURE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER

TYPICAL SECTION - BIOFILTER

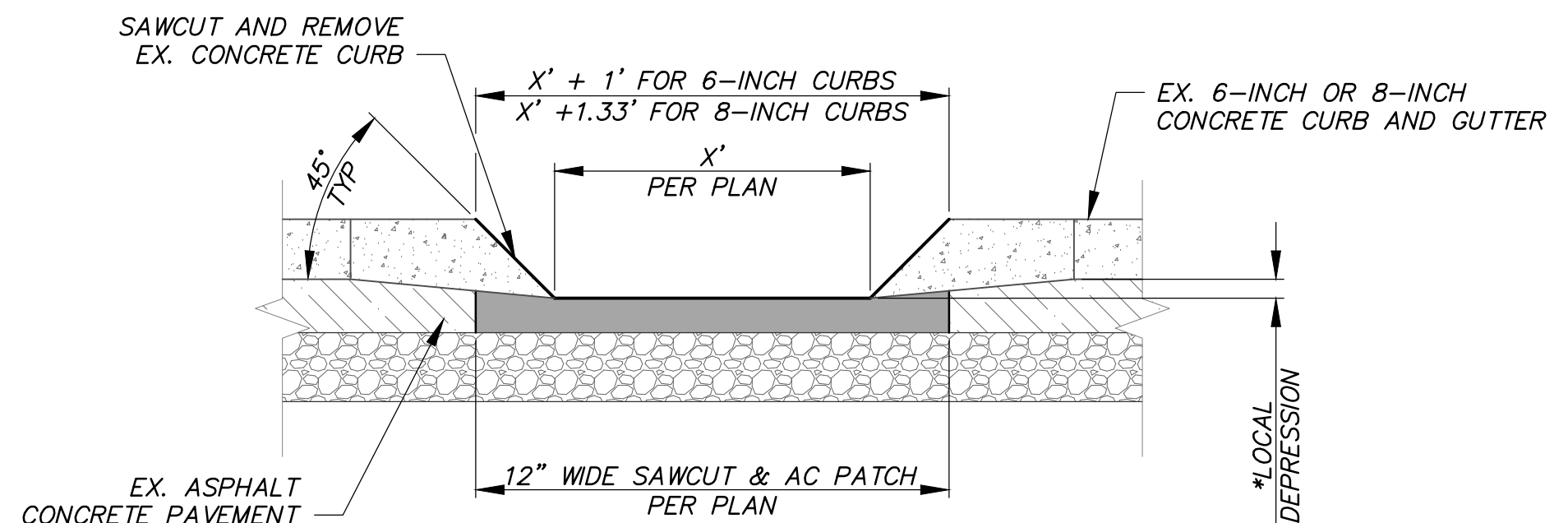
SCALE: N.T.S.



*NOTE: THE FILTER MEDIA LAYER AND THE 12-INCH WIDE SWATH OF UNDERDRAIN LAYER SHALL EXTEND 5' INTO THE FOREBAY PER DETAIL E, HEREON.

TYPICAL SECTION - FOREBAY

SCALE: N.T.S.

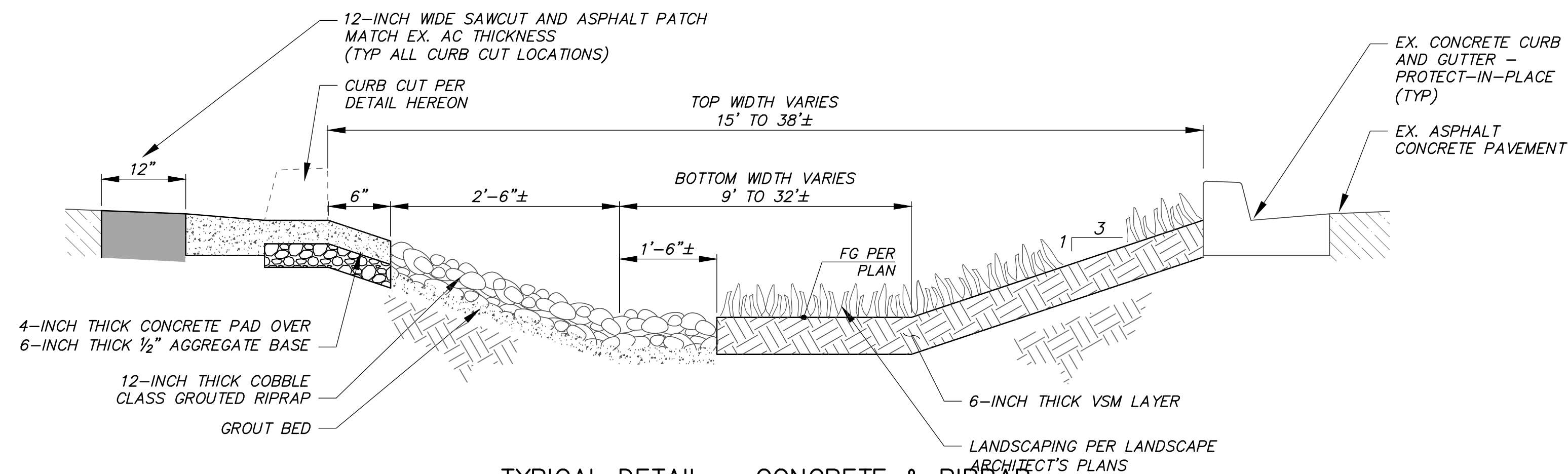


*NOTE: A 3-INCH LOCAL DEPRESSION SHALL BE ADDED TO THE CURB CUT INLETS WHERE INDICATED ON THE PLANS.

FOR OVERFLOW CURB CUTS WHERE A LOCAL DEPRESSION IS NOT REQUIRED, MATCH EXISTING CROSS SLOPE AND FL & LIP ELEVATIONS.

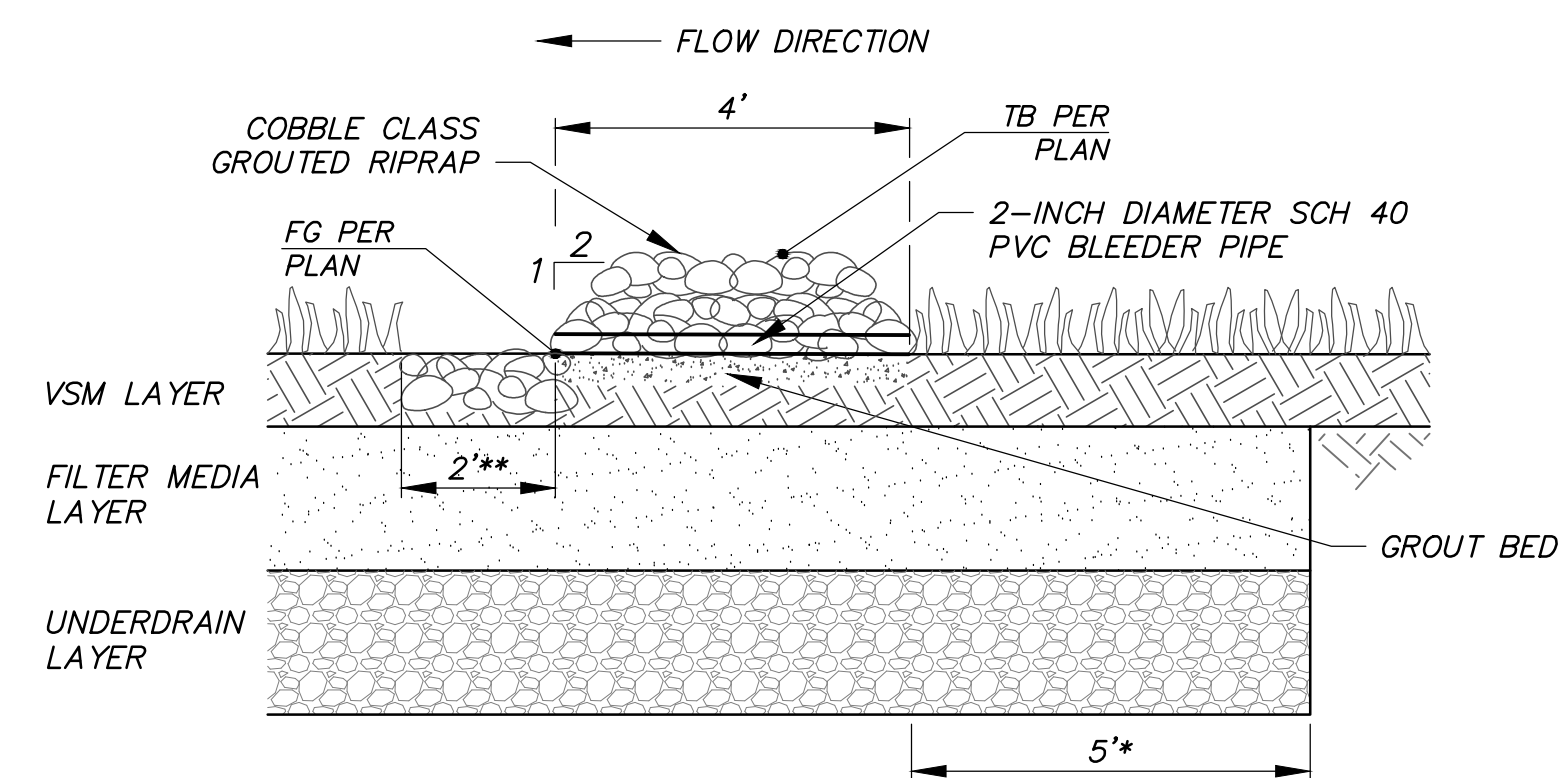
TYPICAL DETAIL - CONCRETE CURB CUT

SCALE: N.T.S.



TYPICAL DETAIL - CONCRETE & RIPRAP FLUME

SCALE: N.T.S.



*NOTE: WHERE SPILLWAY IS ADJACENT TO A FOREBAY, THE FILTER MEDIA LAYER AND A 12-INCH WIDE SWATH OF UNDERDRAIN LAYER SHALL EXTEND 5' INTO THE FOREBAY.

WHERE SPILLWAY IS LOCATED WITHIN A BIOFILTER, THE FILTER MEDIA AND UNDERDRAIN LAYERS SHALL CONTINUE TO THE NEXT SPILLWAY.

**NOTE: A 6-INCH THICK RIPRAP APRON SHALL EXTEND 2' INTO THE DOWNSTREAM BIOFILTER. APRON SHALL BE EMBEDDED AS SHOWN.

TYPICAL DETAIL - RIPRAP SPILLWAY

SCALE: N.T.S.

(SEE DETAIL B, HEREON, FOR HORIZONTAL SECTION VIEW)



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21456.01 12/15/2014
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WATERSHED PROTECTION DISTRICT

SPEC. NO.
WP15-12
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40540

OAK PARK GREEN STREETS URBAN RETROFIT

CONSTRUCTION DETAILS - BIOFILTRATION

SHEET 8
OF 20
DRAWING NO.
Y-4-91

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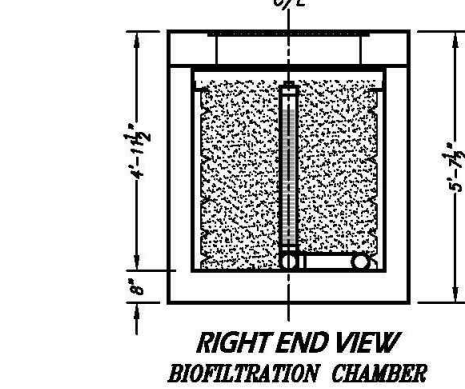
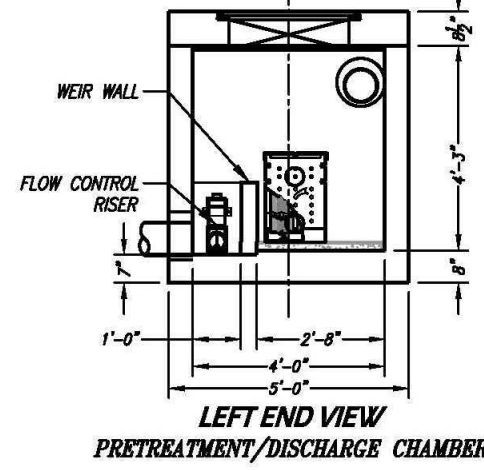
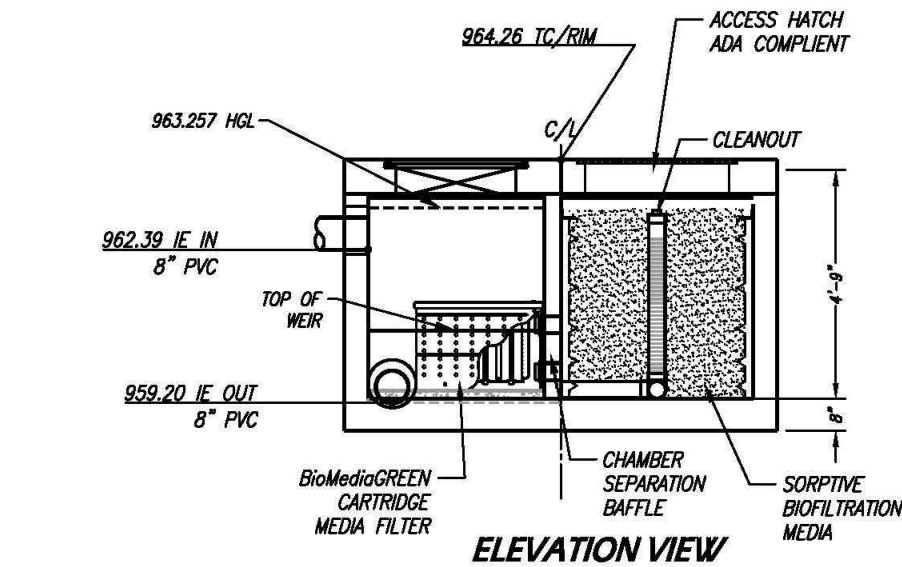
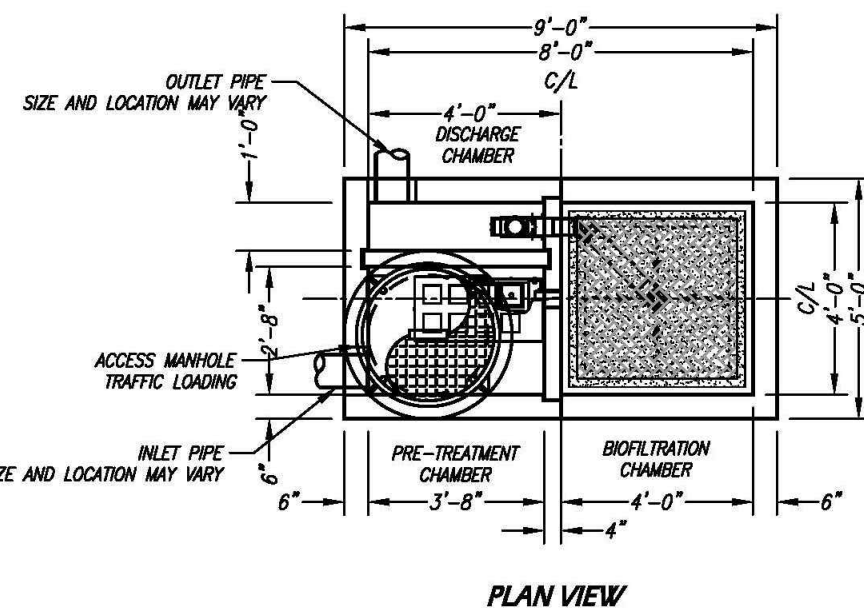
SITE SPECIFIC DATA*			
PROJECT NAME	OAK PARK		
PROJECT LOCATION	VENTURA, CA		
STRUCTURE ID	DRAINAGE AREA 5		
PERFORMANCE DATA			
TREATMENT FLOW (CFS)	0.114		
TREATMENT HGL (FT)	3.4		
BYPASS FLOW RATE (CFS)	DVERT		
PROJECT PARAMETERS			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	962.39	PVC	8"
OUTLET PIPE	959.20	PVC	8"
RIM ELEVATION	964.26		964.26
SURFACE LOADING REQUIREMENT	PARKWAY		
FRAME & COVER	PRETREATMENT	BIOFILTRATION	DISCHARGE
	30"	36" x 36"	N/A
WETLAND/MEDIA VOLUME (CY)	3.0		
MEDIA DELIVERED	SUPER BAGS		
ORIFICE SIZE (DA)	1.53"		
MAX PICK WEIGHT (LBS)	TBD		
NOTES:			
*PER ENGINEER OF RECORD			

INSTALLATION NOTES

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
- MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
- INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
- ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.

GENERAL NOTES

- MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.



MWS UNIT DESIGN DATA	
TREATMENT CAPACITY (CFS)	0.115
OPERATING HEAD (FT)	3.4
PRETREATMENT LOADING RATE (GPM/SF)	2.0
WETLAND LOADING RATE (GPM/SF)	1.0

MWS-L-4-8-UG-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

SITE 5 - 4'x8' LINEAR MODULAR WETLAND VAULT UNIT

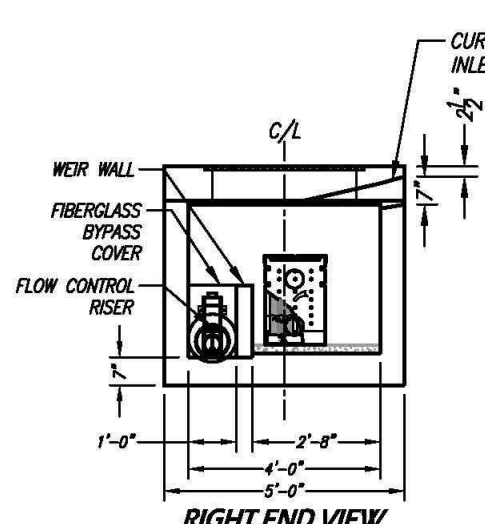
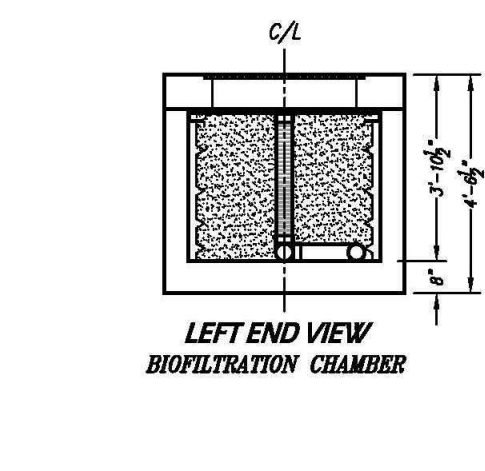
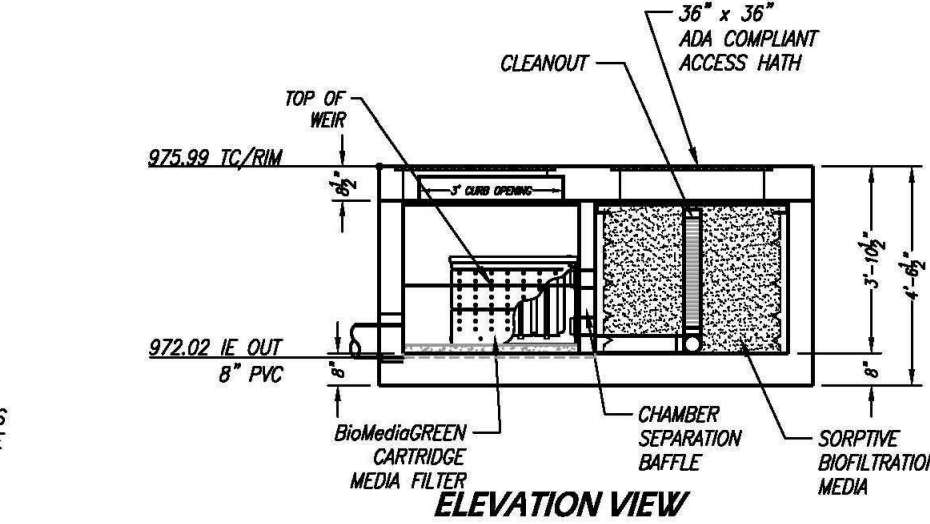
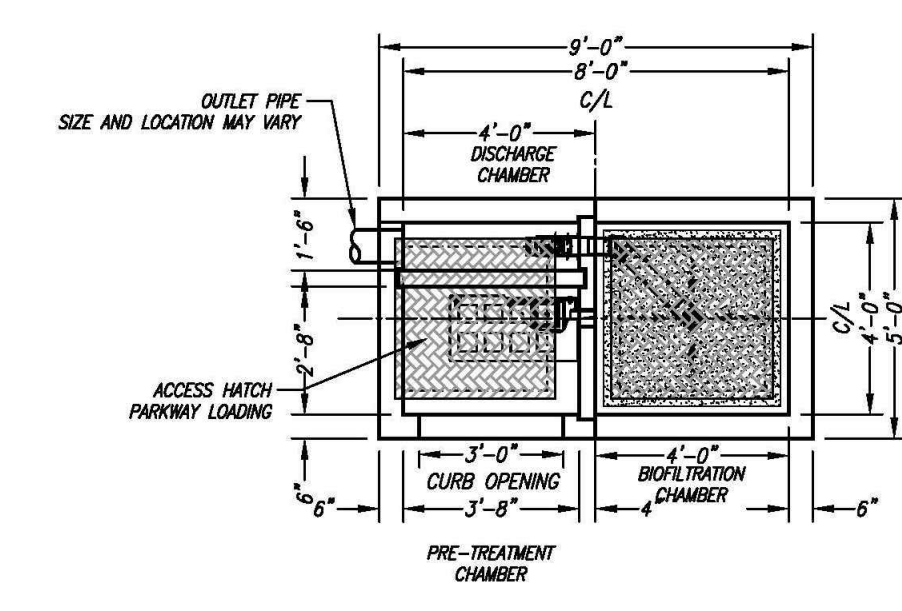
SITE SPECIFIC DATA*			
PROJECT NAME	OAK PARK		
PROJECT LOCATION	VENTURA CA		
STRUCTURE ID	DRAINAGE AREA 6		
PERFORMANCE DATA			
TREATMENT FLOW (CFS)	0.075		
TREATMENT HGL (FT)	2.20		
BYPASS FLOW RATE (CFS)	FLOW BY		
PROJECT PARAMETERS			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	N/A	N/A	N/A
OUTLET PIPE	972.02	PVC	8"
RIM ELEVATION	975.99		975.99
SURFACE LOADING REQUIREMENT	PARKWAY		
FRAME & COVER	PRETREATMENT	BIOFILTRATION	DISCHARGE
	36"x36"	36" x 36"	N/A
WETLAND/MEDIA VOLUME (CY)	2.4		
MEDIA DELIVERED	TBD		
ORIFICE SIZE (DA)	TBD		
MAX PICK WEIGHT (LBS)	TBD		
NOTES:			
*PER ENGINEER OF RECORD			

INSTALLATION NOTES

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
- MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
- INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
- ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.

GENERAL NOTES

- MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.



MWS UNIT DESIGN DATA	
TREATMENT CAPACITY (CFS)	0.075
OPERATING HEAD (FT)	2.2
PRETREATMENT LOADING RATE (GPM/SF)	1.3
WETLAND LOADING RATE (GPM/SF)	1.0

MWS-L-4-8-UG-C
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

SITE 6 - 4'x8' LINEAR MODULAR WETLAND CURB UNIT

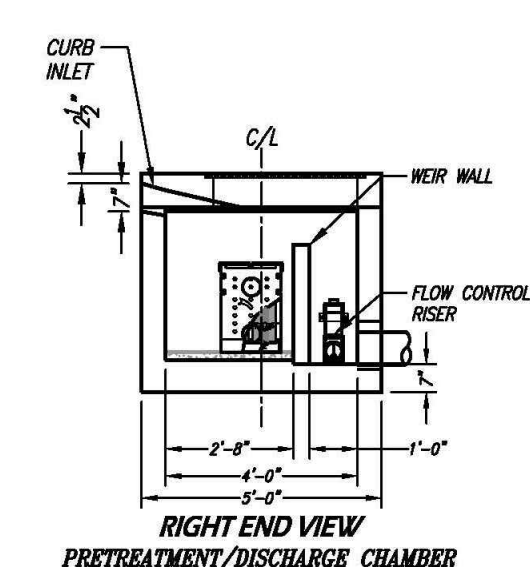
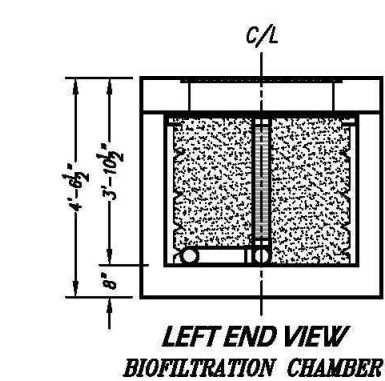
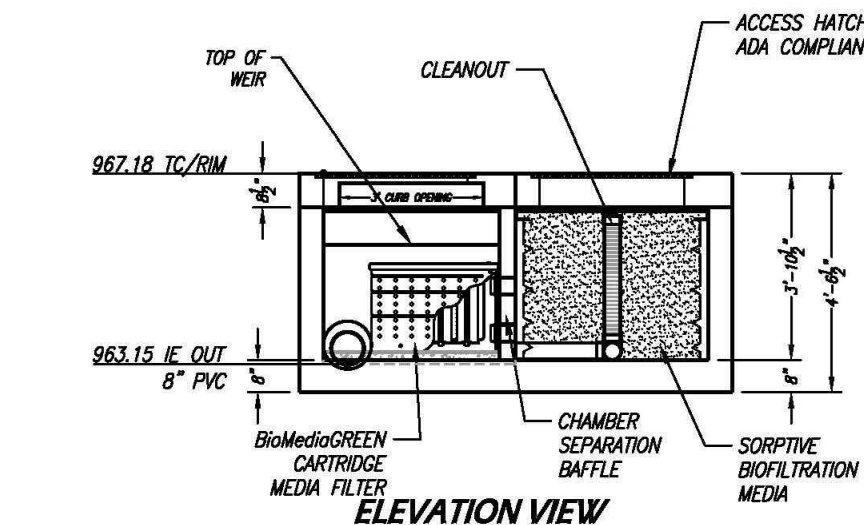
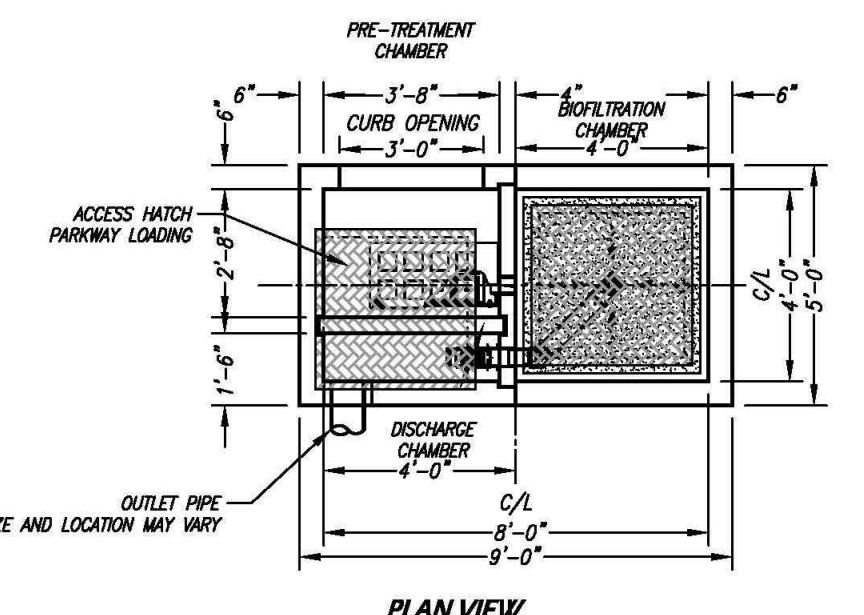
SITE SPECIFIC DATA*			
PROJECT NAME	OAK PARK		
PROJECT LOCATION	VENTURA CA		
STRUCTURE ID	DRAINAGE AREA 7		
PERFORMANCE DATA			
TREATMENT FLOW (CFS)	0.081		
TREATMENT HGL (FT)	2.40		
BYPASS FLOW RATE (CFS)	TBD		
PROJECT PARAMETERS			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	N/A	N/A	N/A
OUTLET PIPE	963.15	PVC	8"
RIM ELEVATION	967.18		
SURFACE LOADING REQUIREMENT		PARKWAY	
FRAME & COVER	PRETREATMENT	BIOFILTRATION	DISCHARGE
	36"x36"	36" x 36"	N/A
WETLANDMEDIA VOLUME (CY)			2.30
MEDIA DELIVERED			TBD
ORIFICE SIZE (DA)			TBD
MAX PICK WEIGHT (LBS)			TBD
NOTES:			
*PER ENGINEER OF RECORD			

INSTALLATION NOTES

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
- MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
- INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
- ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.

GENERAL NOTES

- MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.



MWS UNIT DESIGN DATA	
TREATMENT CAPACITY (CFS)	0.081
OPERATING HEAD (FT)	2.4
PRETREATMENT LOADING RATE (GPM/SF)	1.4
WETLAND LOADING RATE (GPM/SF)	1.0

MWS-L-4-8-UG-C
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

SITE 7 - 4'x8' LINEAR MODULAR WETLAND CURB UNIT

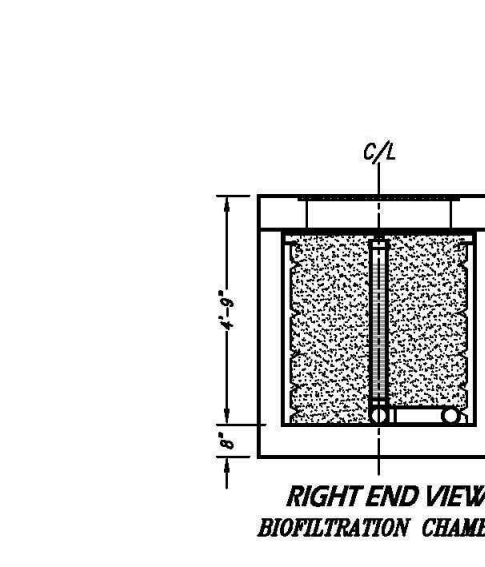
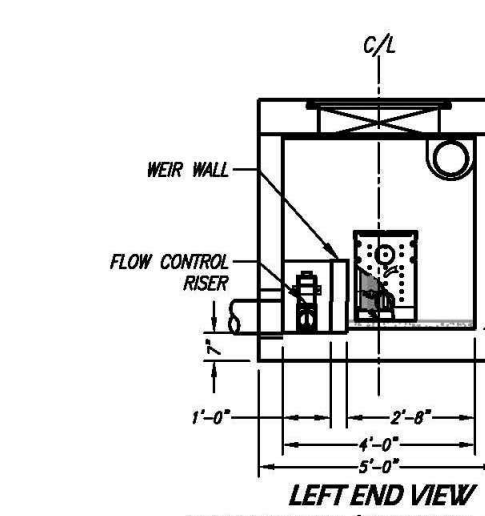
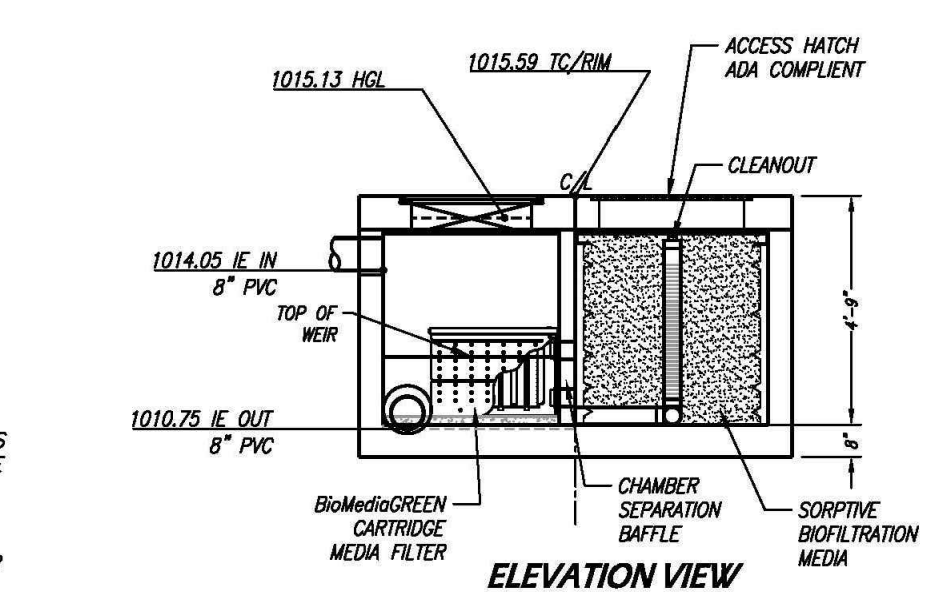
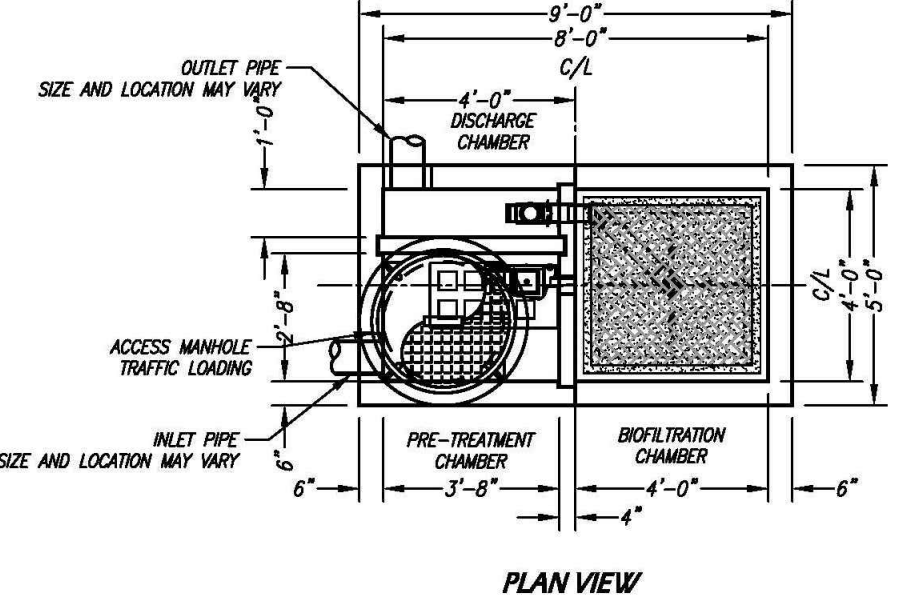
SITE SPECIFIC DATA*			
PROJECT NAME	OAK PARK		
PROJECT LOCATION	VENTURA, CA		
STRUCTURE ID	DRAINAGE AREA 8		
PERFORMANCE DATA			
TREATMENT FLOW (CFS)	0.067		
TREATMENT HGL (FT)	2.0		
BYPASS FLOW RATE (CFS)	DVERT		
PROJECT PARAMETERS			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	1014.05	PVC	8"
OUTLET PIPE	1010.75	PVC	8"
RIM ELEVATION	1015.59		1015.59
SURFACE LOADING REQUIREMENT		PARKWAY	
FRAME & COVER	PRETREATMENT	BIOFILTRATION	DISCHARGE
	30"	36" x 36"	N/A
WETLAND/MEDIA VOLUME (CY)		2.37	
MEDIA DELIVERED		SUPER BAGS	
ORIFICE SIZE (DIA)		1.53"	
MAX PICK WEIGHT (LBS)		TBD	
NOTES:			
*PER ENGINEER OF RECORD			

INSTALLATION NOTES

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MWS UNIT DESIGN DATA	
TREATMENT CAPACITY (CFS)	0.115
OPERATING HEAD (FT)	3.4
PRETREATMENT LOADING RATE (GPM/SF)	2.0
WETLAND LOADING RATE (GPM/SF)	1.0

MWS-L-4-8-UG-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

SITE 8 - 4'x8' LINEAR MODULAR WETLAND VAULT UNIT

3/19/2015 5:13 PM

SAVE DATE: 3/3/15 GJMUSSER

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Penfield & Smith
Engineering • Surveying • Planning
• Construction Management •

GREGORY J. MUSSER
PROJECT ENGINEER

DATE: 77,627

R.C.E.

21456.01

12/15/2014

P&S W.O.

PLAN DATE

GJM
DESIGNED

PM
DRAWN

GJM
CHECKED

PROJECT MANAGER

DEPUTY DIRECTOR

DISTRICT DIRECTOR

DATE

DATE



COUNTY OF VENTURA
PUBLIC WORKS AGENCY
WATERSHED PROTECTION DISTRICT

SPEC. NO.
WP15-12

PROJ. NO.
40540

OAK PARK GREEN STREETS URBAN RETROFIT

CONSTRUCTION DETAILS - MODULAR WETLANDS

SHEET 11

OF 20

DRAWING NO.

Y-4-94

SITE SPECIFIC DATA*

PROJECT NAME	OAK PARK
PROJECT LOCATION	VENTURA, CA
STRUCTURE ID	DRAINAGE AREA 9

PERFORMANCE DATA

TREATMENT VOLUME (CF)	0.125
TREATMENT HGL (FT)	2.95
BYPASS FLOW RATE (CFS)	DIVERT

PROJECT PARAMETERS

PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
OUTLET PIPE 1	997.11	PVC	8"
RIM ELEVATION	1002.09		1001.86
SURFACE LOADING REQUIREMENT			PARKWAY

FRAME & COVER	PRETREATMENT	BIOFILTRATION	DISCHARGE
	30	CLOSED	24

WETLANDMEDIA VOLUME (CY)	3.45
MEDIA DELIVERED	SUPER BAGS
ORIFICE SIZE (IN)	1.70"
MAX PICK WEIGHT (LBS)	TBD

NOTES:
*PER ENGINEER OF RECORD

PLAN VIEW

LEFT END VIEW

RIGHT END VIEW

ELEVATION VIEW

INSTALLATION NOTES

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GENERAL NOTES

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THE PRODUCT DESCRIBED MAY BE PATENTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
7,616,816
7,616,817
7,616,818
7,616,819
7,616,820
7,616,821
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PROPRIETARY AND CONFIDENTIAL:
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MODULAR WETLANDS SYSTEMS, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MODULAR WETLANDS SYSTEMS, INC. IS PROHIBITED.

MODULAR WETLANDS

SITE 9 - 4 X15 LINEAR MODULAR WETLAND CURB UNIT

MWS UNIT DESIGN DATA	
TREATMENT CAPACITY (CFS)	0.144
OPERATING HEAD (FT)	3.4
PRETREATMENT LOADING RATE (GPM/SF)	2.0
WETLAND LOADING RATE (GPM/SF)	1.0

MWS-L-4-13-UG-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

SITE SPECIFIC DATA*

PROJECT NAME	OAK PARK
PROJECT LOCATION	VENTURA, CA
STRUCTURE ID	DRAINAGE AREA 10

PERFORMANCE DATA

TREATMENT FLOW (CFS)	0.158
TREATMENT HGL (FT)	3.10
BYPASS FLOW RATE (CFS)	FLOW BY

PROJECT PARAMETERS

PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	N/A	N/A	N/A
OUTLET PIPE 1	996.26	PVC	8"
RIM ELEVATION	1001.16		1001.50
SURFACE LOADING REQUIREMENT			PARKWAY
FRAME & COVER	PRETREATMENT BIOFILTRATION DISCHARGE		
	30	CLOSED	24
WETLANDMEDIA VOLUME (CY)			4.16
MEDIA DELIVERED			SUPERBAGS
ORIFICE SIZE (IN)			1.80"
MAX PICK WEIGHT (LBS)			TBD

NOTES:

*PER ENGINEER OF RECORD

PLAN VIEW

LEFT END VIEW

INSTALLATION NOTES

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ELEVATION VIEW

RIGHT END VIEW

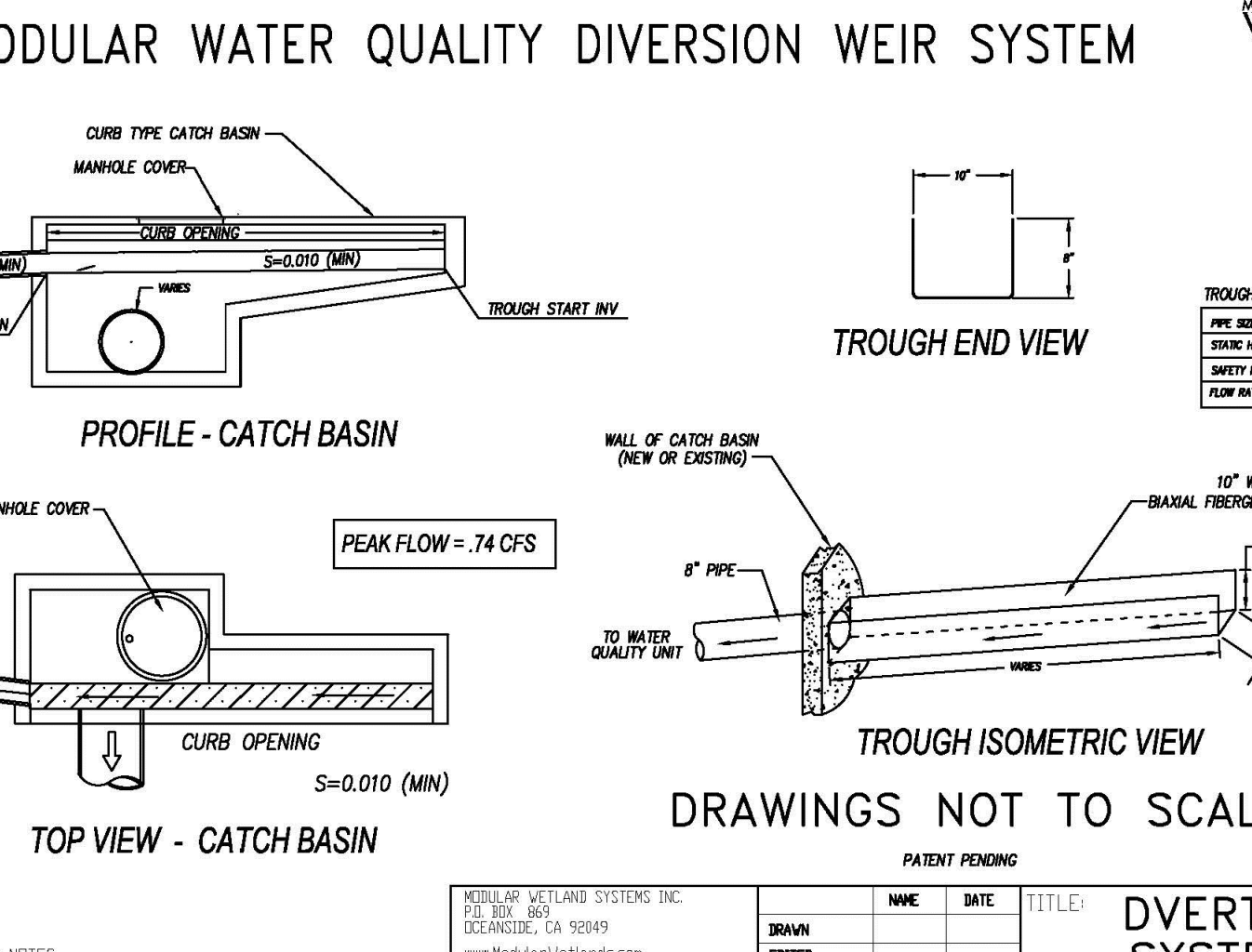
THE PRODUCT DESCRIBED MAY BE PROVIDED BY ONE OR MORE OF THE FOLLOWING US PATENTS:

US 8,111,111 B2
US 8,111,112 B2
US 8,111,113 B2
US 8,111,114 B2
US 8,111,115 B2
US 8,111,116 B2
US 8,111,117 B2
US 8,111,118 B2
US 8,111,119 B2
US 8,111,120 B2
US 8,111,121 B2
US 8,111,122 B2
US 8,111,123 B2
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US 8,11

DVERT™

MODULAR WATER QUALITY DIVERSION WEIR SYSTEM





PROFILE - CATCH BASIN

TOP VIEW - CATCH BASIN

TROUGH END VIEW

TROUGH ISOMETRIC VIEW

DRAWINGS NOT TO SCALE

PATENT PENDING

PIPE SIZE DIA. (Inches)	Q
6"	8
8"	12
SAFETY FACTOR	2
FLOW RATE (MG)	24

INSTALLATION NOTES:

1. TROUGH IS TO BE CONNECTED TO CONCRETE BELOW CURB OPENING USING 1/2" x 4-8" x 20" STAINLESS STEEL SPIKE W/SHOWN HEAD ABOVE INCHES SPACED 12" ON CENTER
2. USE DAP CONCRETE WATERPROOF FILLER & SEALANT TO SEAL SEAM BETWEEN FIBERGLASS WEIR & CONCRETE WALL OF CATCH BASIN.

DATE	NAME	VALUE
	DRAWN	
	ENTERED	
	COMMENTS	

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**MODULAR WETLAND SYSTEMS - LINEAR 2.0
FLUSH WITH CURB DETAIL**

SECTION B-B

SECTION A-A

ELEVATION VIEW

LEGEND: STANDARD CURB AND GUTTER BY CONTRACTOR

NOTES:

- ELEVATIONS ARE TYPICAL AND MAY VARY BY PROJECT. REFER TO APPROVED CIVIL PLANS FOR ALL LOCAL DEPRESSION ELEVATIONS AND DETAILS.
- MWS UNIT CONFIGURATION MAY VARY. REFER TO PROJECT SPECIFIC MWS DETAILS FOR ALL MWS INTERNAL CONFIGURATIONS.
- CONTRACTOR RESPONSIBLE TO CONNECT ALL CURB AND GUTTER TO MWS UNIT FOR ALL AGENCY STANDARDS AND APPROVED CIVIL.

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DATE	NAME	REVIEW	DATE	NAME	REVIEW

TITLE: MWS LINEAR 2.0
FLUSH WITH CURB DETAIL

SCALE: MWS UNITS = 1/4"=1'-0"

SHEET 1 OF 1

**SECTION VIEW
STANDARD MODULAR WETLAND CURB OPENING**

**FRONT VIEW
STANDARD MODULAR WETLAND CURB OPENING**

MODULAR WETLAND SYSTEMS INC. P.O. BOX 969 DOLANSVILLE, GA 30049 www.ModularWetlands.com PROPRIETARY AND CONFIDENTIAL			DRAWN JOHN	DATE 5/3/13	TITLE: MWS LINEAR 2.0 CURB INLET DETAILS
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			SCALE NTS UNITS - INCHES SHEET 1 OF 1		