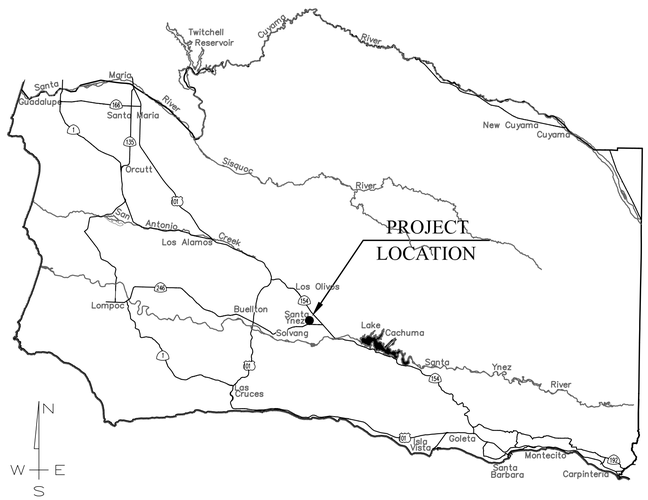
SANTA BARBARA COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

FARADAY STORM DRAIN IMPROVEMENTS PROJECT - CEDAR STREET DRAINAGE

SY8305

IN THE SANTA YNEZ AREA
OF
SANTA BARBARA COUNTY, CALIFORNIA



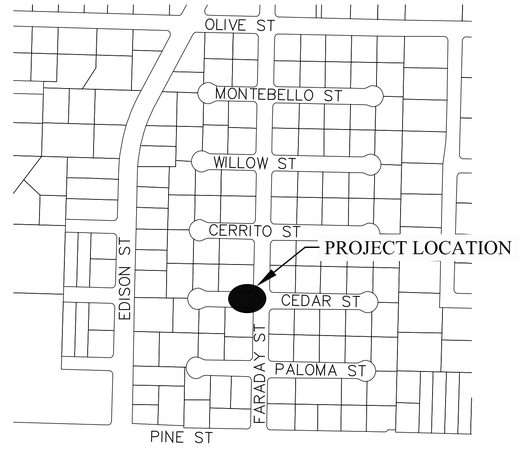
VICINITY MAP
No Scale

DISTRICT BOARD OF DIRECTORS

FIRST DISTRICT	Das Williams
SECOND DISTRICT	Gregg Hart
THIRD DISTRICT	Joan Hartmann
FOURTH DISTRICT	Peter Adam
FIFTH DISTRICT	Steve Lavagnino

CHAIR, BOARD OF DIRECTORS _____
Steve Lavagnino

INDEX TO SHEETS



SITE MAP
No Scale

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

ALL UNDERGROUND UTILITIES AND OVERHEAD UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS AND ARE APPROXIMATE.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION AT 1-800-422-4133.

UNAUTHORIZED CHANGES OR USES:
THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE" ADVERTISING FOR BIDS.

REVISIONS			
NO.	DESCRIPTION	DATE	APR

REGISTERED PROFESSIONAL ENGINEER — MATTHEW G. GRIFFIN — No. C 66822 — Exp. _____ — CIVIL — STATE OF CALIFORNIA

DESIGNED BY:	REVIEWED BY:
FLOOD CONTROL DESIGN ENGINEER DATE	COUNTY SURVEYOR DATE
REVIEWED BY:	REVIEWED BY
FLOOD CONTROL ENGINEERING MANAGER DATE	MAINTENANCE SUPERINTENDENT DATE
REVIEWED BY	REVIEWED BY
FLOOD CONTROL DEPUTY DIRECTOR DATE	ENVIRONMENTAL SERVICES MANAGER DATE

SANTA BARBARA COUNTY
FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440

FARADAY STORM DRAIN IMPROVEMENTS PROJECT
-CEDAR STREET DRAINAGE
AREA OF SANTA YNEZ
SANTA BARBARA COUNTY, CALIFORNIA

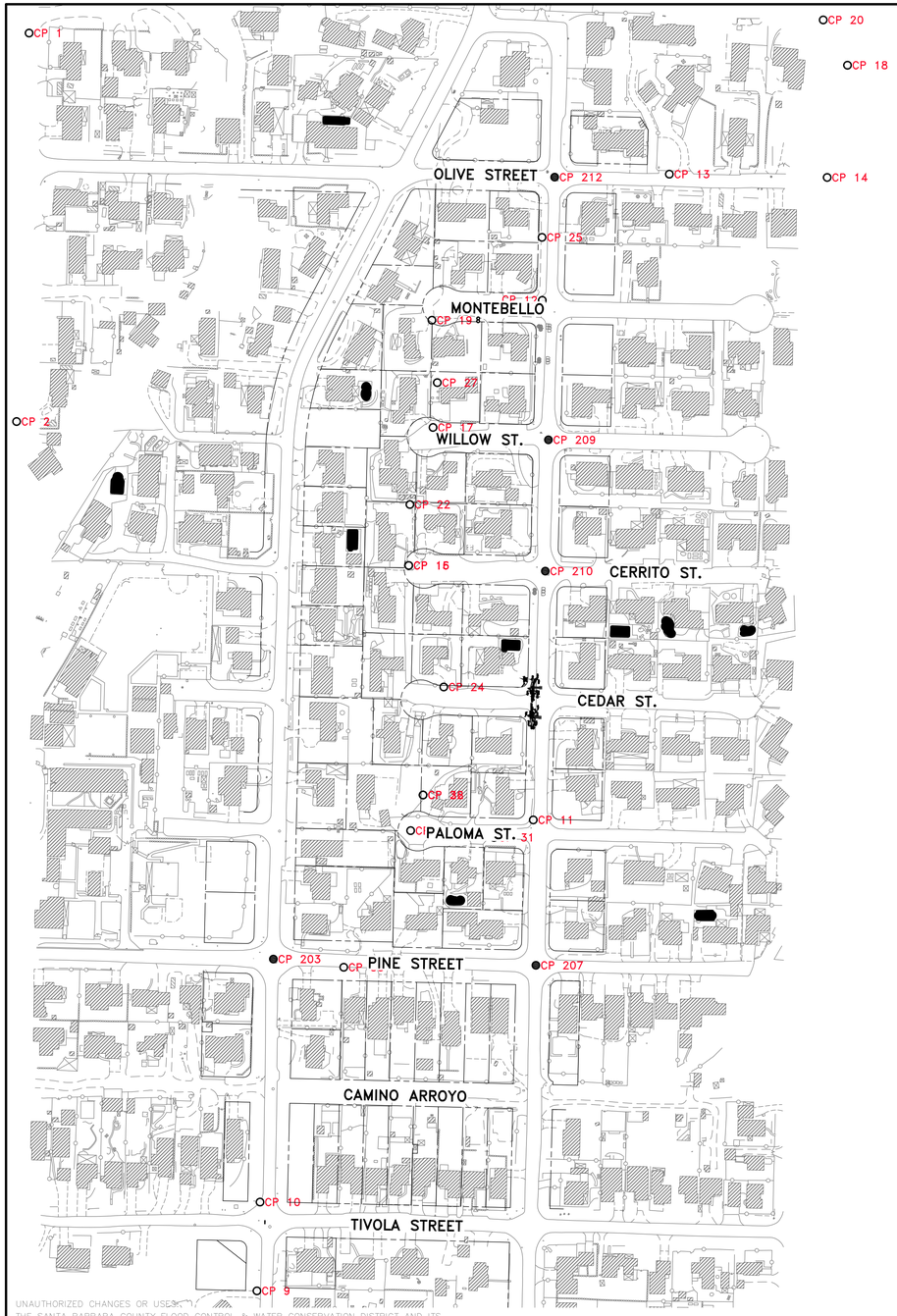
TITLE SHEET

DESIGNED BY: MG
DRAWN BY: JM
CHECKED BY: JF

O-1146

SHEET 1 OF 4

Filename: Faraday-Cedar2.dwg



UNAUTHORIZED CHANGES OR USES:
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CONTROL POINT LISTING

HORIZONTAL: NAD83 1991.35, US SURVEY FEET
VERTICAL: NAVD88, US SURVEY FEET

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2,054,825.41	5,934,877.83	639.464	SET MAG NAIL & TIN
2	2,054,041.82	5,934,852.58	625.488	SET MAG NAIL & TIN
3	2,051,893.44	5,934,796.20	570.161	SET MAG NAIL & TIN
4	2,051,893.92	5,936,609.14	589.208	SET MAG NAIL & TIN
5	2,052,928.46	5,936,674.00	613.060	SET COTTON SPINDLE
6	2,054,993.97	5,936,503.49	612.757	SET COTTON SPINDLE
7	2,052,467.41	5,935,343.64	584.798	SET MAG NAIL & TIN
8	2,052,288.38	5,935,337.40	588.408	SET MAG NAIL & TIN
9	2,053,238.28	5,935,894.91	618.292	SET MAG NAIL & TIN
10	2,054,286.31	5,935,913.04	635.598	SET MAG NAIL & TIN
11	2,054,540.78	5,936,169.39	637.126	SET MAG NAIL & TIN
12	2,054,534.14	5,936,487.73	609.816	SET MAG NAIL & TIN
13	2,054,760.57	5,936,528.68	606.420	SET ½" IRON PIPE & PLUG
14	2,054,851.92	5,936,479.72	613.115	SET ½" IRON PIPE & PLUG
15	2,053,751.49	5,935,643.67	614.495	SET COTTON SPINDLE
16	2,053,874.45	5,935,646.06	619.289	SET SPIKE
17	2,054,029.83	5,935,692.65	619.773	SET SCRIBED X
18	2,054,120.33	5,935,701.22	622.199	SET SPIKE
19	2,054,246.14	5,935,690.43	628.353	SET SPIKE
20	2,053,202.84	5,935,815.63	620.493	SET MAG & TIN AC
21	2,053,216.63	5,935,647.54	605.535	SET MAG & TIN
22	2,053,288.53	5,935,672.57	603.791	SET 60D NAIL
23	2,053,506.41	5,935,714.34	609.886	SET 60D NAIL
24	2,052,941.02	5,935,512.50	598.726	SET 60D NAIL
25	2,054,413.26	5,935,912.56	632.603	SET 60D NAIL
200	2,050,420.38	5,936,971.78	666.459	FOUND 2 ½" IN BRASS CAP, DOWN 0.5' PER 147 RS 98
201	2,063,994.94	5,930,736.83	740.565	FOUND 2" BRASS CAP PER 147 RS 98
202	2,052,957.53	5,935,370.52	604.008	FOUND MAG & TAG 'SBCO SURVEYOR' PER CR 4634
203	2,052,944.99	5,935,900.19	594.653	FOUND ¾" IRON PIPE WITH ILLEGIBLE TAG, ACCEPTED IN LIEU OF TAG 'SBCO SURV.' PER 57 MB 61
204	2,053,474.91	5,935,912.74	616.935	FOUND 2" BRASS CAP DOWN 0.3' PER 57 MB 61
205	2,054,004.94	5,935,925.41	633.906	FOUND 2" BRASS CAP DOWN 0.2' PER CR 2476
206	2,053,740.04	5,935,919.11	620.620	FOUND ¾" IRON PIPE WITH NO TAG DOWN 0.2', IN LIEU OF BRASS CAP PER 57 MB 61
207	2,054,534.80	5,935,938.02	631.356	FOUND LEAD AND TAG LS4427 DOWN 0.4' PER 147 RS 33
209	2,054,373.05	5,935,948.95	633.284	FOUND 2" IRON PIPE
8115	2,053,453.88	5,935,888.78	616.414	SET SPIKE

CP 29

ABBREVIATION LEGEND

AB	AGGREGATE BASE
APN	ASSESSORS PARCEL NUMBER
BEG	BEGINNING
BOV	BLOW OFF VALVE
CCWA	CENTRAL COAST WATER AUTHORITY
CFS	CUBIC FEET PER SECOND
CL	CENTER LINE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
DIA	DIAMETER
EBOX	ELECTRICAL BOX
EGL	ENERGY GRADE LINE
EL	ELEVATION
EM	ELECTRICAL METER
EX	EXISTING
FH	FIRE HYDRANT
FL	FLOW LINE
FT	FEET
FOC	FIBER OPTIC CABLE
G	GAS
GWE	GUY WIRE ELECTRIC
IN.	INCH
INV	INVERT
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
MB	METER BOX
MON	MONUMENT
OHW	OVERHEAD WIRE
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
PP	POWER POLE
PROP.	PROPOSED
PVC	POLYVINYL CHLORIDE
Qdes	DESIGN FLOW RATE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
S	SLOPE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SMH	SEWER MANHOLE
STA	STATION
TCE	TEMPORARY CONSTRUCTION EASEMENT
TP	TELEPHONE POLE
TYP	TYPICAL
W	WATER
WV	WATER VALVE
TCL	TEMPORARY CONSTRUCTION LIMIT

SURVEYOR'S NOTES

1. MAPPING

AERIAL TOPOGRAPHY
TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=20', WITH A 1 FOOT CONTOUR INTERVAL, USING STANDARD PHOTOGRAMMETRIC METHODS AND PROCEDURES BY VERTICAL MAPPING RESOURCES FROM AERIAL PHOTOGRAPHY OCTOBER 13, 2016.
MAPPING IS SUPPLEMENTED BY DATA COLLECTED FROM A FIELD SURVEY USING CONVENTIONAL EQUIPMENT AND PROCEDURES IN OCTOBER 10, 2016.

AERIAL PHOTOGRAPHY
THE AERIAL PHOTOGRAPHY USED AS THE BACKGROUND FOR THIS MAP WAS OBTAINED ON OCTOBER 13, 2016 BY VERTICAL MAPPING RESOURCES. THE PHOTOGRAPHY HAS BEEN CONVERTED INTO A DIGITAL FORMAT AND CORRECTED FOR HORIZONTAL AND VERTICAL DISTORTION USING STANDARD PHOTOGRAMMETRIC METHODS.

2. BASIS OF BEARINGS AND COORDINATES

BEARINGS SHOWN ON THIS MAP ARE REFERENCED TO THE CALIFORNIA COORDINATE SYSTEM, NAD 83, ZONE 5 GRID (EPOCH 1991.35). THIS SURVEY TIED TO FOUND MONUMENTS, CONTROL POINTS 200 (1016) AND 201 (1143) AS SHOWN ON RECORD OF SURVEY FILED IN BOOK 147 PAGE 98, COUNTY OF SANTA BARBARA.
ALL DISTANCES AND COORDINATES ARE REFERENCED TO SAID CALIFORNIA COORDINATE SYSTEM AND ARE EXPRESSED IN US SURVEY FOOT UNITS.
SEE CONTROL POINT LISTING

3. ELEVATIONS

ELEVATIONS SHOWN HEREON ARE EXPRESSED IN U.S. SURVEY FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), NO ADJUSTMENT DATE OR DETAILS SPECIFIED IN SAID RECORD OF SURVEY.
BENCHMARK IS CONTROL POINT 200, ELEVATION = 666.459' AS SPECIFIED IN SAID RECORD OF SURVEY.
SEE CONTROL POINT LISTING

4. BOUNDARY AND RIGHT-OF-WAY

THE PARCEL AND RIGHT-OF-WAY LINES SHOWN HEREON ARE COMPILED FROM THE MAP OF THE TOWN OF SANTA YNEZ (1 MB 41) AND TRACT 10,210 (57 MB 57). THIS SURVEY TIED TO SEVERAL MONUMENTS OF RECORD PER THESE MAPS. SEE CONTROL DESCRIPTIONS FOR SPECIFICS.

REFERENCED STANDARD PLANS

1. STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION: 309-2 (CATCH BASIN REINFORCEMENT), 340-2 (TRANSITION STRUCTURE PIPE TO PIPE).
2. COUNTY OF SANTA BARBARA, DEPT. OF PUBLIC WORKS STANDARD PLAN: 3-050 (TYPE C DROP INLET).
3. CALTRANS STANDARD PLAN, 2010 EDITION: A73A (OBJECT MARKERS), A87B (HOT MIX ASPHALT DIKES), D75B (CONCRETE PIPE INLETS), D75C (PIPE INLETS LADDER AND TRASH RACK DETAILS).

SYMBOL LEGEND

- BOUNDARY EASEMENT LINE
- EXISTING BUILDING
- EXISTING ELECTRIC LINE
- EXISTING SEWER LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING OVERHEAD WIRES
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING STORM DRAIN LINE
- EXISTING FENCE
- EXISTING FLOW LINE
- EXISTING PROPERTY LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED SAWCUT
- TEMP. CONSTRUCTION EASEMENT (TCE)
- EXISTING EDGE OF PAVEMENT
- HGL
- EGL

- CONTROL POINT
- EXISTING MAILBOX
- EXISTING MONUMENT
- EXISTING SIGNAGE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING BLOW OFF VALVE
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POWER POLE
- EXISTING SEWER MANHOLE
- EXISTING TREE
- EXISTING GATE
- EXISTING STORM WATER CULVERT
- VALVE FROM AERIAL TOPOGRAPHIC MAPPING

REVISIONS			
NO.	DESCRIPTION	DATE	APR

REGISTERED PROFESSIONAL ENGINEER — MATTHEW G. GRIFFIN — No. C 66822 — Exp. _____ — CIVIL — STATE OF CALIFORNIA

DESIGNED BY: Matt Griffin 10/16/2019
FLOOD CONTROL DESIGN ENGINEER DATE

SANTA BARBARA COUNTY
FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440

FARADAY STORM DRAIN
IMPROVEMENTS PROJECT
-CEDAR STREET DRAINAGE
AREA OF SANTA YNEZ
SANTA BARBARA COUNTY, CALIFORNIA

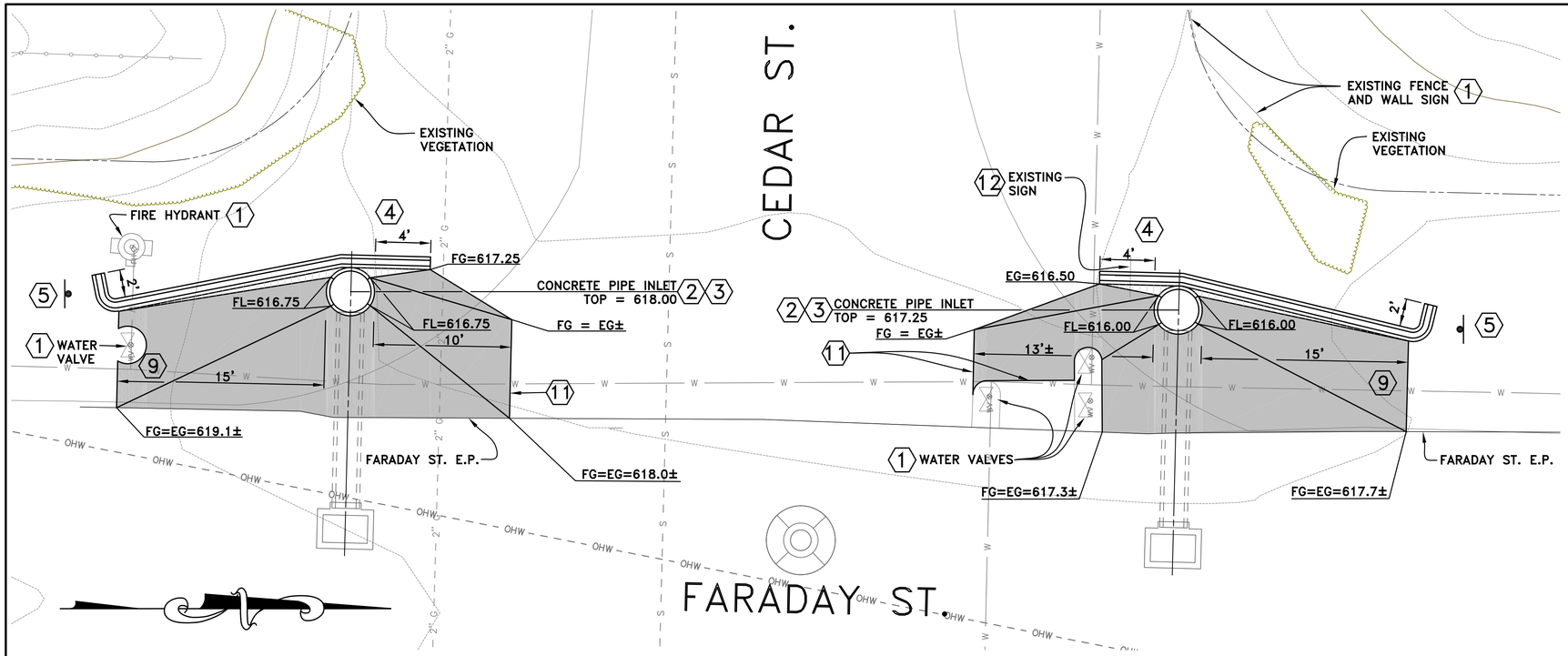
GENERAL INFORMATION

DESIGNED BY: MG
DRAWN BY: JM
CHECKED BY: JF

O-1146

SHEET 2 OF 4

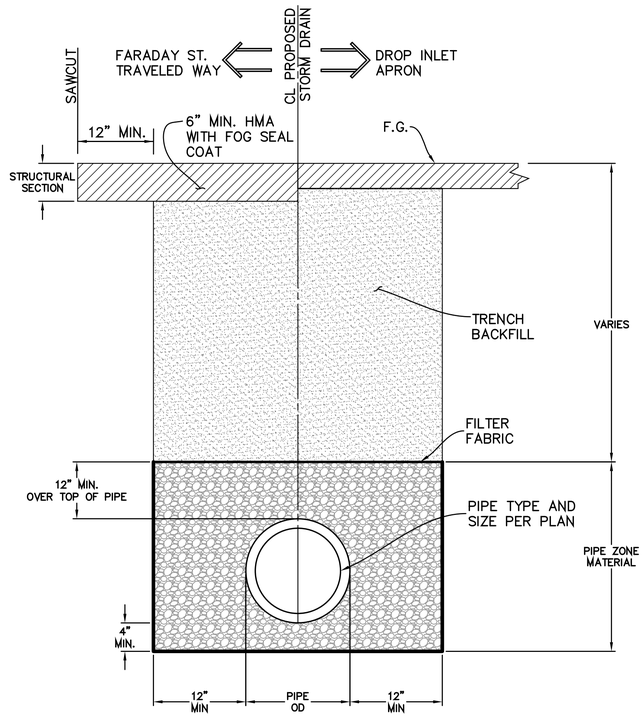
Filename: Faraday-Cedar2.dwg



PLAN
SCALE: 1" = 5'

CONSTRUCTION NOTES

1. Protect in place.
2. Construct concrete pipe inlet, connector pipe, and transition structure, per details on Sheet 4.
3. Construct drop inlet apron per County of Santa Barbara, Dept. of Public Works Std. Detail 3–050, modified as shown on this sheet.
4. Taper AC dike from H = 6" to H = 2".
5. Install object marker, Type L–1, per Caltrans A73A.
9. Conform HMA drop inlet apron to existing drainage ditch.
11. Sawcut and remove existing HMA beyond Faraday St. E.P. (Cedar St.), as needed to construct proposed improvements.
12. Relocate street sign.



PIPE TRENCH DETAIL
NOT TO SCALE

PIPE TRENCH DETAIL NOTES

1. Temporary excavation support, sloping or benching required as described in the Special Provisions.
2. Increase trench as necessary to accommodate shoring system and compaction operations.
3. Pipe zone material must be 3/4" gravel and conform to the requirements listed in the Special Provisions. Compact to a minimum of 95% relative compaction.
4. Trench backfill must be slurry cement backfill.
5. Compaction by flooding, ponding, or jetting shall not be permitted.
6. Unsuitable bottom of trench conditions may require additional subgrade overexcavation as directed by the engineer.
7. See construction note 3 for structural section beyond Faraday St. EP (i.e. Drop Inlet Apron).

REVISIONS			
NO.	DESCRIPTION	DATE	APR

REGISTERED PROFESSIONAL ENGINEER — MATTHEW G. GRIFFIN — No. C 66822 — Exp. ____ — CIVIL — STATE OF CALIFORNIA

DESIGNED BY: Matt Griffin 10/16/2019
FLOOD CONTROL DESIGN ENGINEER — DATE

SANTA BARBARA COUNTY
FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440

FARADAY STORM DRAIN IMPROVEMENTS PROJECT
-CEDAR STREET DRAINAGE
AREA OF SANTA YNEZ
SANTA BARBARA COUNTY, CALIFORNIA

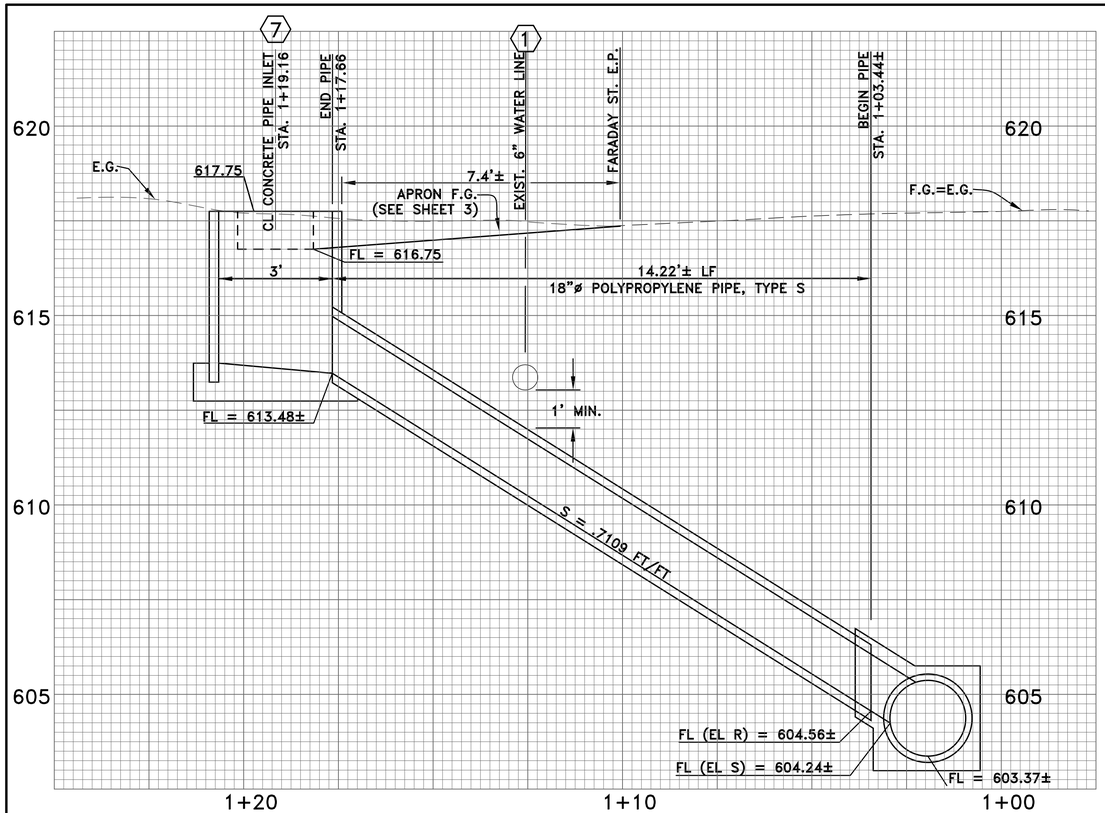
PAVEMENT PLAN & DETAILS

DESIGNED BY: MG
DRAWN BY: JM
CHECKED BY: JF

O-1146

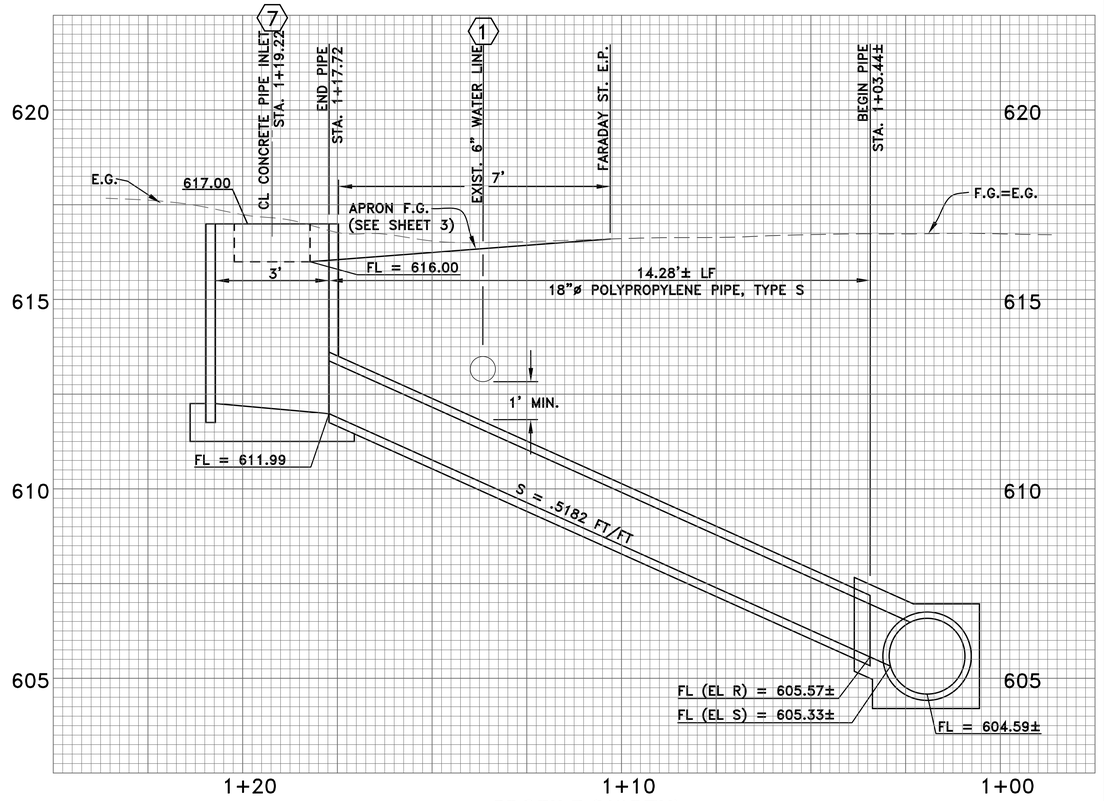
SHEET 3 OF 4

Filename: Faraday–Cedar2.dwg



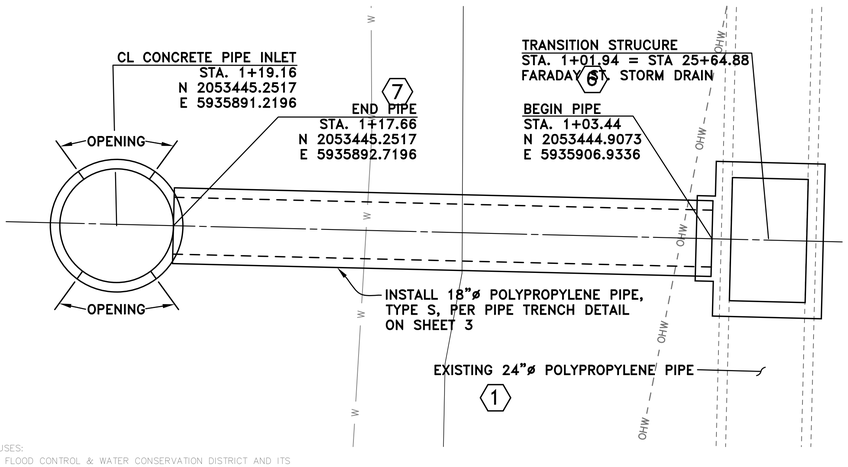
PROFILE (SOUTH)

SCALE: 1" = 2'
VERTICAL & HORIZONTAL



PROFILE (NORTH)

SCALE: 1" = 2'
VERTICAL & HORIZONTAL

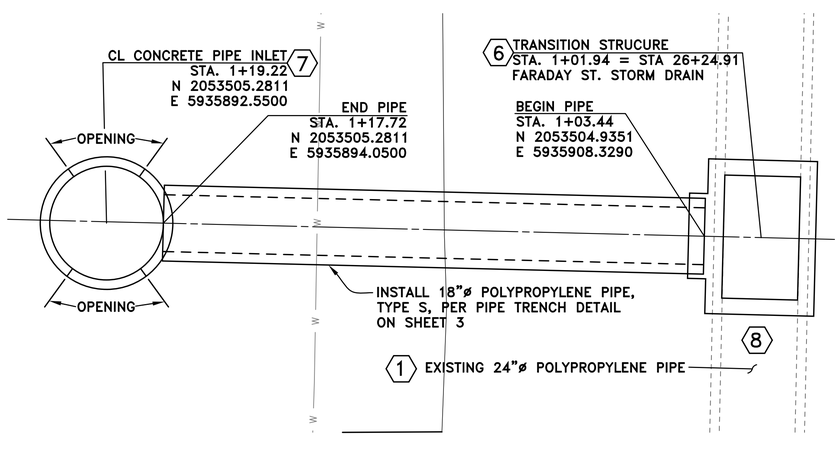


PLAN (SOUTH)

SCALE: 1" = 2'

CONSTRUCTION NOTES

1. Protect in place.
6. Construct Transition Structure (Pipe to Pipe) Per SPPWC 340-2, C = 6".
7. Construct Concrete Pipe Inlet per Caltrans Std. Plan D75B (Type OCPI). Two windows, northerly and southerly faces, with trash racks, steel cover.
8. Cleanly cut and remove existing 24"ø polypropylene pipe as needed to construct transition structure.



PLAN (NORTH)

SCALE: 1" = 2'

REVISIONS			
NO.	DESCRIPTION	DATE	APR

REGISTERED PROFESSIONAL ENGINEER
MATTHEW C. GRIFFIN
No. C 66822
Exp.
CIVIL
STATE OF CALIFORNIA

DESIGNED BY: Matt Griffin 10/16/2019
FLOOD CONTROL DESIGN ENGINEER DATE

SANTA BARBARA COUNTY
FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
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FARADAY STORM DRAIN
IMPROVEMENTS PROJECT
-CEDAR STREET DRAINAGE
AREA OF SANTA YNEZ
SANTA BARBARA COUNTY, CALIFORNIA

DRAINAGE PLAN, PROFILE, & DETAILS

DESIGNED BY: MG
DRAWN BY: JM
CHECKED BY: JF

O-1146

SHEET 4 OF 4

Filename: Faraday-Cedar2.dwg

SANTA BARBARA COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

SPECIAL PROVISIONS

FOR

Faraday Storm Drain Improvements Project – Cedar St. Drainage

FIN PROJECT NO. SY8305

SPECIAL PROVISIONS

FOR

Faraday Storm Drain Improvements Project – Cedar St. Drainage

FIN PROJECT NO. SY8305

The special provisions contained herein have been prepared under the direction of the following Registered Persons.

REGISTERED CIVIL ENGINEER	DATE 10-21-2019
PROJECT MANAGER	DATE 10-21-2019
APPROVAL RECOMMENDED - ENGINEERING MANAGER	DATE
APPROVED BY DEPUTY DIRECTOR OF PUBLIC WORKS, WATER RESOURCES	DATE

COPY OF BID ITEM LIST

Item No.	F[1]	Description	Unit	Quantity	Unit Price	Item Total
1		Traffic Control System	LS	1	$	$
2		Job Site Management	LS	1	$	$
3		Reset Street Sign	EA	1	$	$
4		Transition Structure (SPPWC 340-2)	EA	2	$	$
5		Concrete Pipe Inlet (D75B, Type OCPI) & Apron	EA	2	$	$
6		18-inch Plastic Pipe (Polypropylene Pipe, Type S)	LF	36	$	$
7		Object Marker (Type L-2)	EA	2	$	$
8		Mobilization	LS	1	$	$
					TOTAL BID	

[1] "F" denotes Final Pay Item

Select LF quantities for one or both of the pipe options given. The sum of the selected quantities of both options must equal the quantity shown for the bid item.

SPECIAL PROVISIONS

The work provided herein must be performed in accordance with the Caltrans Standard Specifications 2010 edition (Standard Specifications), and the latest edition of the 2010 Revised Standard. The Standard Specifications and the RSS are incorporated herein by reference.

MODIFICATIONS TO STANDARD SPECIFICATIONS

Replace section 3-1.05 with:

3-1.05 CONTRACT BONDS (PUB CONT CODE §§ 10221 AND 10222)

The successful bidder must furnish 2 bonds:

1. Payment bond to secure the claim payments of laborers, workers, mechanics, or materialmen providing goods, labor, or services under the Contract. This bond must be equal to at least 100 percent of the total bid. The payment bond must also contain provisions which automatically increase amounts thereof and/or time of completion or both for all change orders, extensions and additions to the work provided pursuant to this Agreement.
2. Performance bond to guarantee the faithful performance of the Contract. This bond must be equal to at least 100 percent of the total bid.

You may provide alternative securities for monies withheld to ensure performance per the terms of Public Contract Code § 22300.

The District furnishes the successful bidder with bond forms.

Both the payment and performance bonds must be executed by one and only one surety. That Surety must be admitted and listed in the Insurance Organizations Authorized By The Insurance Commissioner To Transact Business Of Insurance In The State Of California for the current year, and must be further authorized by the commissioner to issue surety insurance.

^^

5 CONTROL OF WORK

Add to section 5-1.20B(1):

The County of Santa Barbara Public Works Department, Transportation Division, will be issuing an encroachment permit for this project. You must comply with the general permit requirements.

Replace section 5-1.26 with:

5-1.26 CONSTRUCTION SURVEYS

The District will place stakes and marks for construction of the proposed improvements, at the points shown on the plans.

Revise section 5-1.32 to read:

Occupy the County Road right of way only for purposes necessary to perform the work.

Add to section 5-1.36D:

You must provide the regional notification center “Inquiry Identification” number to the District prior to the commencement of excavation or other work close to any underground facility. You are responsible for keeping the Inquiry Identification number valid throughout the duration of the construction contract.

The locations of all public and private utilities shown on the plans are approximate.

The utilities shown in the following table will not be rearranged. The utilities may interfere with substructure construction. You must protect these utilities in place. Your proposed methods of protection must be to the satisfaction of the utility owner.

Utilities Not Rearranged for Substructure Construction

Utility	Location
Santa Ynez River Water Conservation District ID#1– Eric Tambini (805) 688-6015.	Faraday Street: 6” Water line

^^

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Add section 7-1.03A:

7-1.03A STANDARD NOTIFICATIONS

You must deliver notices to each residence adjacent to the Work (all residences on Cedar St west of Faraday and the four corner residences at the Faraday St./Cedar St. Intersection). The notice must be distributed 2 days prior to the start of work. The format and content of each notice must be approved by the Engineer (see example below).

Such notice must at minimum give the name of the Project, the duration of the Contract period, daily work hours for the proposed work, typical parking and access restrictions anticipated for the work (Note to contractor, specific parking and access restrictions require additional notifications as specified below), the Contractor's representative and phone number, the County representative and phone number, along with any other information requested by the Engineer. All notices must be approved by the Engineer for content and delivery schedule prior to actual delivery.

All notices must be in the format of door hangers (14 inches by 4 inches, 110 Springhill Index or approved equal) and be hung at the main door of each residence or business affected.

The following is an example of language required:

NOTICE

TO AREA RESIDENTS

The Santa Barbara County Flood Control District hereby informs you that (Contractor) will be constructing the Name of Project. The contract period is from (date) to (date).

Work on the Project will typically be performed between the hours of 7:00 AM and 4:30 PM.

We appreciate your patience and cooperation during this Project. If you have any questions, or require additional information please contact the following:

Contractor, Contact's Name and Telephone Number

Santa Barbara County Flood Control District, Contact's Name and Telephone Number

Replace section 7-1.06 with:

7-1.06 INSURANCE

7-1.06A General

You must procure and maintain for the duration of this Agreement insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of your work, your agents, representatives, employees or subcontractors.

7-1.06B Minimum Scope and Limit of Insurance

Coverage shall be at least as broad as:

1. **Commercial General Liability (CGL):** Insurance Services Office (ISO) Form CG 00 01 covering CGL on an "occurrence" basis, including products-completed operations, personal & advertising injury, with limits no less than $1,000,000 per occurrence and $2,000,000 in the aggregate.
2. **Automobile Liability**: ISO Form Number CA 00 01 covering any auto (Code 1), with limit no less than $2,000,000 per accident for bodily injury and property damage.
3. **Workers' Compensation**: as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than $1,000,000 per accident for bodily injury or disease.

If you maintain higher limits than the minimums shown above, the County of Santa Barbara and the Santa Barbara County Flood Control District (County) requires and shall be entitled to coverage for the higher limits you maintain. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the County.

7-1.06C Other Insurance Provisions

The insurance policies must contain, or be endorsed to contain, the following provisions:

1. **Additional Insured –** County, its officers, officials, employees, agents and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by you or on your behalf including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to your insurance at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10 and CG 20 37 if a later edition is used).

Any failure, actual or alleged, on the part of County to monitor or enforce compliance with any of the insurance and indemnification requirements will not be deemed as a waiver of any rights on the part of County.

^^^

8 PROSECUTION AND PROGRESS

Replace the 1st paragraph of section 8-1.05 with:

Complete the work within 15 (fifteen) working days. Contract time starts on the day specified in the Notice to Proceed regardless of when you start job site activities.

^^^

DIVISION II GENERAL CONSTRUCTION

12 TEMPORARY TRAFFIC CONTROL

Add to section 12-1.01:

Traffic Control System includes the development of a Traffic Control Plan and maintaining traffic in accordance with Section 12-4.

Add section 12-1.01A:

12-1.01A SUBMITTALS

Submit your Traffic Control Plan at least 7 days prior to implementation. If the Engineer requests changes amend and resubmit the Traffic Control Plan at least 3 days prior to implementation. Include the following in the Traffic Control Plan:

1. Traffic Control Systems each shoulder closure and lane closure, including sign placement, and construction area signs.

Replace section 12-1.03 with:

12-1.03 FLAGGING COSTS

You must pay for all costs associated with flagging.

Add to section 12-1.04:

Road and Lane Closures must be in accordance with the Road Encroachment Permit.

You must comply with Sections 7-1.03, Public Convenience, and 7-1.04, Public Safety.

Pedestrian and bike access must be provided for at all times.

Driveway access from public streets must be maintained for all residences at all times.

You must install temporary steel plate bridging as necessary to maintain full two-way traffic on public roads during non-working hours. Temporary steel plate bridging must conform with Section 602.1 of the Caltrans Encroachment Permit Manual, available online at:

http://www.dot.ca.gov/trafficops/ep/docs/Chapter_6.pdf

You may restrict parking on public streets and alleys. Parking restrictions must be limited to no more than two streets and two alley ways at one time. Parking restrictions must comply with section 12-1.04A.

Add section 12-1.04A:

12-1.04A PARKING RESTRICTIONS AND POSTING FOR TOW AWAY

"No Parking" signs must be posted 72 hours in advance. Signs must be removed after construction is completed or postponed. You must promptly replace signs that are damaged or missing for the duration of the construction. Failure to post "No Parking" signs in accordance with these special provisions may result in a street closure or start of construction delay, which will be considered an avoidable delay.

The day of the week shall be written out or properly abbreviated with three to four letters; date or dates of restriction shall be listed completely; the beginning and ending times shall be clearly listed on the sign. The Contractor's name and telephone number shall also be printed on the sign.

Signs must be mounted such that the words "No Parking" are at an elevation at least three feet and not more than seven feet above the adjacent flowline. Signs may be tied with string to trees and power poles, taped to existing sign poles, or mounted to stakes or barricades that you provide. They must be placed as needed to control the parking of cars within the construction zone; signs must be placed at intervals of 50 feet or less along each side of the roadway. The Engineer may direct where to place signs. Allow utility owners access to the work and schedule around interference by utility owners performing concurrent work.

You must post and maintain signs for a period of 72 hours prior to the restrictions becoming effective. If it is not possible to work on the day posted, you must remove signs and post new signs no less than 72 hours prior to the restrictions. Upon completion of the work, all signs, stakes, and barricades shall be promptly and completely removed and disposed of.

You must be fully responsible for the adequate removal of all parked cars. All vehicle removals must be coordinated by the Contractor with local law enforcement. You must notify local law enforcement upon posting of the parking restrictions. For removal of parked vehicles, you must notify local law enforcement not less than two hours prior to the needed removal with the address nearest the parked vehicle, make, model, color and license number. The Santa Barbara County Flood Control District will not be responsible for any delay or additional cost associated with the removal of parked cars which obstruct the construction operation.

If a vehicle owner successfully contests a towing citation in court, and the citation is dismissed for causes related to the Contractor's failure to perform the requirements of this section, you must reimburse the Agency for the cost of any claims associated with the towing citation.

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13 WATER POLLUTION CONTROL

Add section 13-1.03A(1):

13-1.03A(1) Drainage Control

The proposed project is located within urbanized residential streets. You are fully responsible for continually accepting and discharging water from any source in a manner that causes no damage to existing or partially completed proposed improvements, in a manner that causes no ponded water to accumulate at low points, and in a manner which poses no potential hazard to persons or property and is in conformance with all permits required for this project. Damage to existing or partially completed proposed improvements caused by lack of drainage control shall be repaired, or removed and replaced, at your expense.

It shall be understood and agreed that you must hold the Owner and the Engineer harmless from legal action taken by any third party with respect to construction and operation of temporary drainage control works.

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15 EXISTING FACILITIES

Add to section 15-2.01:

Reset Street sign as directed buy the Engineer.

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DIVISION III GRADING

19 EARTHWORK

Add to section 19-2.01A:

Structure excavation includes the removal of existing asphalt concrete pavement. Removal of existing asphalt concrete pavement must comply with Section 15-2.02B.

Structure backfill includes trench backfill, pipe zone material, and ¾" rock for structure foundations.

Add to section 19-3.01A(1):

Pipe Zone material for Polypropylene, HDPE and Reinforced Concrete Pipe must conform to the gradation for

¾-inch, crushed rock in Table 200-1.2 of the Greenbook (latest edition).

Gravel, crushed rock or open graded backfill material must have a layer of filter fabric (Mirafi 180N, US Fabrics 205NW, or approved equal) be placed on top of the gravel prior to placement of trench backfill. The filter fabric must comply with Section 88-1.02B.

Add to section 19-3.02B:

Trench backfill for plastic pipe within the Faraday St. traveled way and structural backfill for transition structures must consist of slurry cement backfill to the HMA grading plane.

Trench backfill for plastic pipe beyond the Faraday St. traveled way and structural backfill for Concrete Inlet Pipes may consist of slurry cement backfill or on-site excavated materials screened of clay soils, oversize material, debris, and other deleterious materials and must not contain rocks, boulders, cobbles, or clumps larger than 3 inches in maximum dimension. On site materials used as trench backfill must not have more than 15 percent of material larger than 2 inches and must be compacted to 90% relative compaction.

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DIVISION V SURFACINGS AND PAVEMENTS

37 BITUMINOUS SEALS

Add to section 37-2.03F(1) of this RSS:

Emulsion must be applied a minimum of 1 foot beyond the new HMA Pavement placed in Faraday St.

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DIVISION V SURFACINGS AND PAVEMENTS

39 HOT MIX ASPHALT

Add to section 39-7.01D(1) of this RSS:

HMA for concrete pipe inlet aprons includes dikes.

Apply emulsion in accordance with section 37.

Add to section 39-7.01D(1) of this RSS:

Method Process compaction shall be used.

Replace section 39-7.02A of this RSS with:

The aggregate for the minor HMA must comply with the 1/2-inch grading.

Replace section 39-7.02C of this RSS with:

The grade of asphalt binder for minor HMA must be PG-64-10.

Replace section 39-7.03 of this RSS with:

Place and compact minor HMA in two lifts.

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DIVISION VI STRUCTURES

51 CONCRETE STRUCTURES

Add to section 51-7.01A:

Concrete Pipe Inlets & Aprons and Transition Structures are minor structures.

Earthwork must comply with section 19-3.

Cleanly cut and remove existing plastic pipe storm drains as needed to construct proposed transition structures. Removal of existing pipe must comply with Section 15-2.02K.

HMA aprons for concrete inlets must comply with section 39.

Replace existing Faraday St. traveled way HMA for transition structures in accordance Section 39 and the details shown on the plans.

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DIVISION VII DRAINAGE

64 PLASTIC PIPE

64-1.01 GENERAL

64-1.01A Summary

Section 64-1 includes general specifications for furnishing, installing, and testing, complete and in place, Type S Polypropylene pipe and fittings in accordance with the Project Documents.

Replace the 1st paragraph of section 64-1.02A with:

Plastic pipe must be Type S corrugated polypropylene pipe, Class 1.

Add section 64-1.02C(1):

64-1.02C(1) CORRUGATED POLYPROPYLENE PIPE

18-inch Corrugated polypropylene pipe must have a smooth interior and annular exterior corrugations and meet or exceed ASTM F2736 and AASHTO M330.

Polypropylene compound for pipe and fitting production must be impact modified copolymer meeting the material requirements of ASTM F2736, Section 4, ASTM F2881, Section 5, and AASTHO M330, Section 6.1, for the respective diameters.

Add to Section 64-1.02E:

For corrugated polypropylene pipe:

1. Pipe must be joined with a gasketed integral bell and spigot joint meeting the requirements of ASTM F2736 or F2881, for respective diameters.
2. 12- through 60 inch shall be watertight according to the requirements of ASTM D3212. Spigots shall have gaskets meeting the requirements of ASTM F477. Gasket must be installed by the pipe manufacturer

and covered with a removable, protective wrap to ensure the gasket is free from debris. A joint lubricant as recommended by the manufacturer must be used on the gasket and bell during assembly.
3. 12- through 60-inch diameters must have a reinforced bell with a polymer composite band installed by the manufacturer.

Replace section 64-1.03A with:

64-1.03A GENERAL

Install Type S corrugated polypropylene pipe as shown on the plans.

Rubber gaskets or water stops supplied by the polypropylene pipe manufacturer must be placed around the exterior of the polypropylene pipe where connecting to concrete structures. Rubber gaskets or water stops shall be on the type or kind that ensures the connection between the concrete structure and the polypropylene pipe meets the requirements for watertight joints.

Excavation, backfill and shaped bedding must comply with section 19-3.

Replace existing Faraday St. traveled way and shoulder HMA in accordance Section 39 and the details shown on the plans.

68 SUBSURFACE DRAINS

Add to section 68-1.03B:

Filter Fabric must be Mirafi 180N, US Fabrics 205NW, or approved equal.

STANDARD DETAILS AND PLANS LIST

Description	Standard Number

SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS – TRANSPORTATION DIVISION STANDARD DETAILS

The Construction Standard Detail sheets (dated September 2011) applicable to this contract include, but are not limited to those indicated below.

Type C Drop Inlet	3-050

STATE DEPARTMENT OF TRANSPORTATION

The Standard Plan sheets (dated 2010) applicable to this contract include, but are not limited to those indicated below.

Abbreviations	A10A - A10B
Symbols	A10C - A10E
Object Markers	A73A
Hot Mix Asphalt Dikes	A87B
Concrete Pipe Inlets	D75B & D75C

APWA STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)

The Standard Plan sheets (2012 Edition) applicable to this contract include, but are not limited to those indicated below.

Transition Structure – Pipe to Pipe	340-2

SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS – ROAD DIVISION PERMIT OFFICE

Requirements for Road Division Encroachment Permit