

SANTA BARBARA COUNTY  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT

OR8302

IN THE SANTA MARIA AREA  
OF  
SANTA BARBARA COUNTY, CALIFORNIA



DISTRICT BOARD OF DIRECTORS

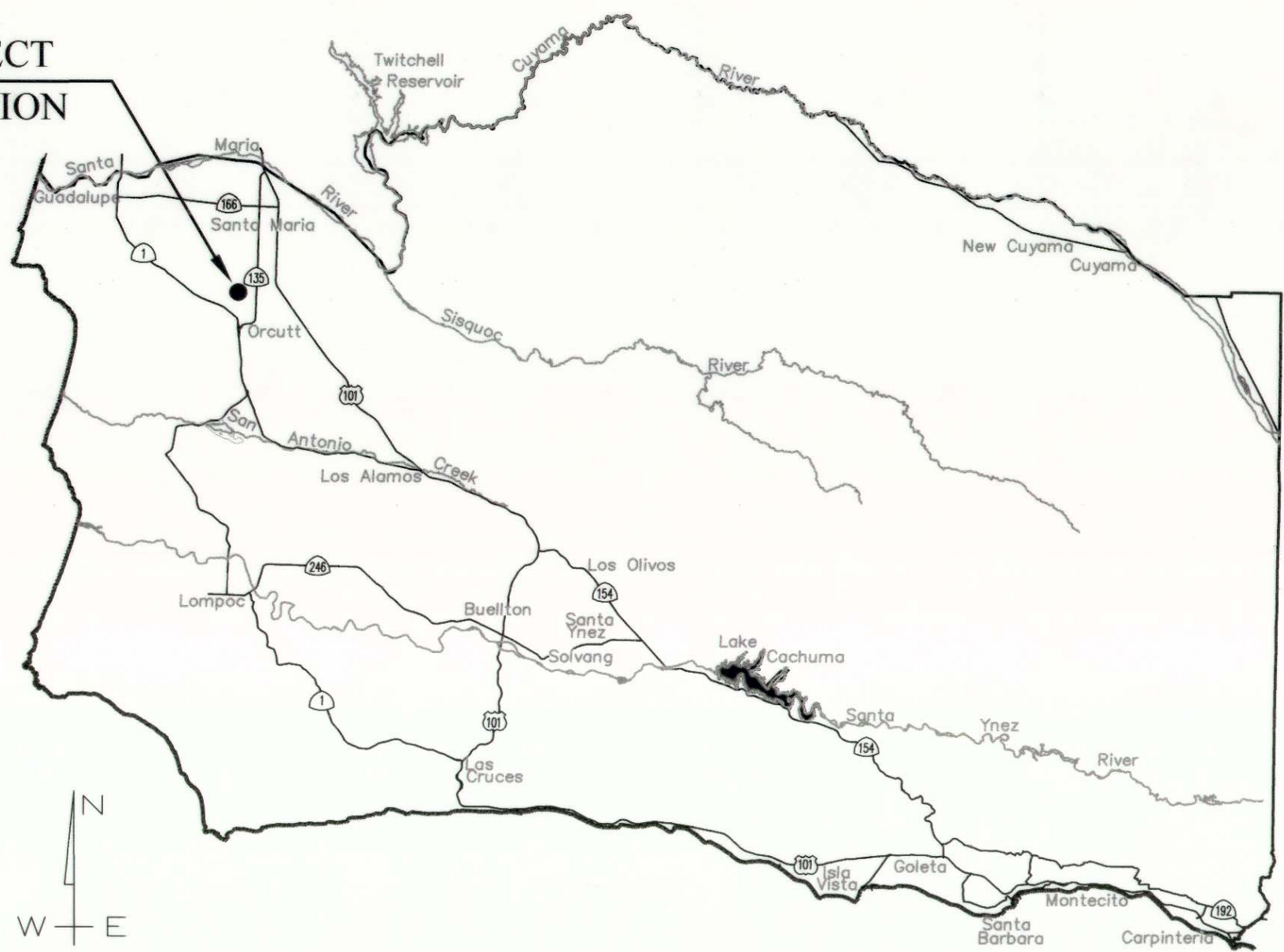
FIRST DISTRICT                      Das Williams  
SECOND DISTRICT                  Janet Wolf  
THIRD DISTRICT, CHAIR          Joan Hartmann  
FOURTH DISTRICT                Peter Adam  
FIFTH DISTRICT                   Steve Lavagnino

CHAIR, BOARD OF DIRECTORS     \_\_\_\_\_  
Joan Hartmann

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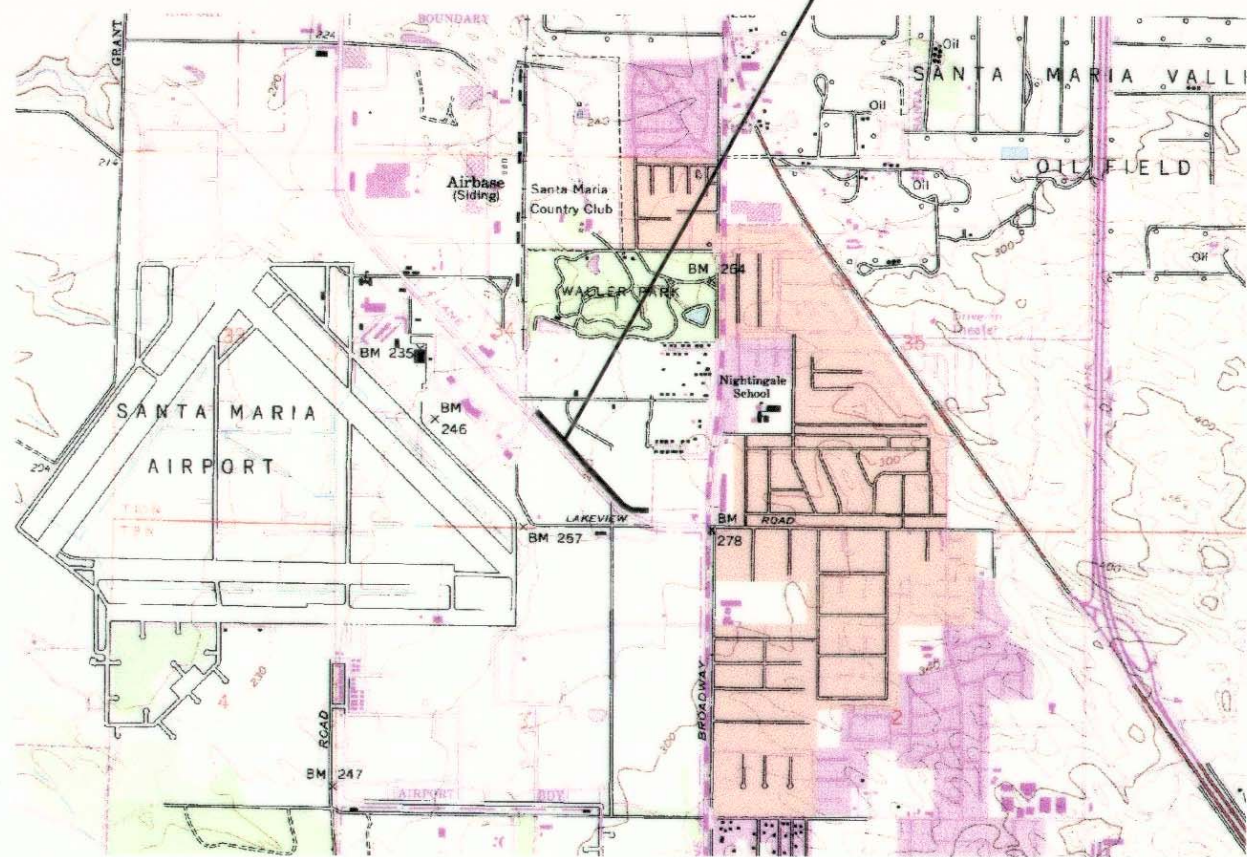
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PROJECT  
LOCATION



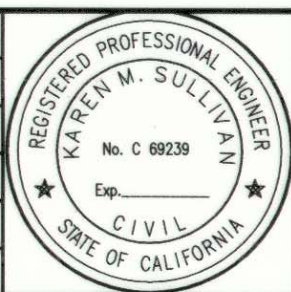
VICINITY MAP  
No Scale

PROJECT  
LIMITS



SITE MAP  
No Scale

REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY: *KM Sullivan* 5-4-17  
FLOOD CONTROL DESIGN ENGINEER DATE  
REVIEWED BY: *John S. Smith* 5-4-17  
FLOOD CONTROL ENGINEERING MANAGER DATE  
REVIEWED BY: *John P. F.* 5-5-17  
FLOOD CONTROL DEPUTY DIRECTOR DATE

REVIEWED BY: *Rob Simpson* 5-4-17  
MAINTENANCE SUPERINTENDENT DATE  
REVIEWED BY: *Maurice Spencer* 5-4-17  
ENVIRONMENTAL SERVICES MANAGER DATE

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



SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

TITLE SHEET

DESIGNED BY: KS  
DRAWN BY: OR  
CHECKED BY: JF  
O-1133  
SHEET 1 OF 22  
Filename: AIRPORT\_DITCH-master\_design.dwg



SYMBOL LEGEND					
CONTROL POINT		EX. ROCK		EX. TREE	
EX. CABLE TV BOX		EX. SEWER CLEANOUT		EX. TREE - EUCALYPTUS	
EX. CABLE TV VAULT		EX. SEWER MANHOLE		EX. TREE - LEMON	
EX. ELECTRIC BOX		EX. SIGNAGE		EX. TREE - PALM	
EX. ELECTRIC GUY WIRE		EX. STORM DRAIN GRATE		EX. TREE - PINE	
EX. ELECTRIC MANHOLE		EX. STORM DRAIN MANHOLE		EX. TREE - STUMP	
EX. ELECTRIC METER		EX. STRUCTURE BENCH		EX. TREE - SYCAMORE	
EX. FIRE HYDRANT		EX. STRUCTURE BOLLARD/POST		EX. TREE - WILLOW	
EX. GAS METER		EX. TELEPHONE BOX		EX. TREE - YUCCA	
EX. GAS VALVE		EX. TELEPHONE MANHOLE		EX. WATER METER	
EX. IRRIGATION SPRINKLER		EX. TELEPHONE POLE		EX. WATER SPIGOT	
EX. LUMINARY		EX. TELEPHONE VAULT		EX. WATER VALVE	
EX. MAILBOX		EX. BUSH/HEDGE		EX. WATER WELL	
EX. MONUMENT		EX. CACTUS		EX. WATER AIR VACUUM	
EX. POWER & TELEPHONE POLE		EX. SHRUB		EX. WATER PUMP	

LINETYPE LEGEND	
BOUNDARY EASEMENT LINE	
BOUNDARY RIGHT OF WAY LINE	
BOUNDARY PROPERTY LINE	
CENTERLINE	
CONTOUR LINE—MAJOR	
CONTOUR LINE—MINOR	
EX. AC EDGE OF PAVEMENT	
EX. BARBED WIRE FENCE	
EX. BRUSH	
EX. BUILDING	
EX. CABLE TV	
EX. CHAINLINK FENCE	
EX. DRAINAGE	
EX. ELECTRIC	
EX. ELECTRIC OVERHEAD	
EX. FACILITIES	
EX. FLOWLINE	
EX. GAS	
EX. GUARDRAIL	
EX. SEWER	
EX. SIDEWALK	
EX. STORM DRAIN	
EX. STRUCTURE CONCRETE	
EX. STRUCTURE WALL	
EX. TELEPHONE	
EX. WATER	
EX. WOOD RAIL FENCE	
PROPOSED FACILITIES	
PROPOSED STORM DRAIN	
RETAINING WALL GUTTER	
TEMP. CONSTRUCTION FENCE	
PROPOSED GRADING LIMITS	

<u>EXISTING UTILITY INFORMATION</u>	<u>UTILITY DISPOSITION NOTE SYMBOLS:</u>
<p>ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN. NOTE THAT INDIVIDUAL SERVICE LATERALS AND CONNECTIONS ARE NOT PLOTTED ON THE PROFILE.</p> <p>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 @ 1-800-422-4133.</p>	<p>⬡ FACILITIES TO BE REMOVED BY OTHERS</p> <p>⬢<sub>RO</sub> FACILITIES TO BE RE-LOCATED BY OTHERS TO A LOCATION IN CLOSE PROXIMITY TO THE WORK. NEW FACILITY TO BE PROTECTED IN PLACE BY THE CONTRACTOR.</p> <p>⬡ FACILITIES TO BE RELOCATED BY CONTRACTOR</p> <p>⬢ PROTECT EXISTING UTILITY IN PLACE, EXACT HORIZONTAL AND VERTICAL LOCATION UNKNOWN</p> <p>⬢ ABANDONED UTILITY IN PLACE, INTERFERING PORTIONS TO BE REMOVED BY CONTRACTORS</p>

*The Standard Plan sheets applicable to this contract include, but are not limited to those indicated below.*

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

3-080     STORM DRAIN MANHOLE

A10A	ABBREVIATIONS
A10B	ACRONYMS
A10C	SYMBOLS
RSP A10D	LINES AND SYMBOLS
RSP A10E	LINES AND SYMBOLS
B11-47	CABLE RAILING
RSP D77A	GRATE DETAILS NO.1
RSP D86A	BOX CULVERT WARPED WINGWALL
D90	PIPE CULVERT HEADWALLS, ENDWALLS AND WINGWALLS TYPES A, B AND C
RSP B3-5	RETAINING WALL DETAILS NO.1

310-3	CATCH BASIN FACE PLATE ASSEMBLY AND PROTECTION BAR
320-2	MANHOLE - PIPE TO PIPE (MAIN LINE ID=36" OR LARGER)
322-2	MANHOLE PIPE-TO-PIPE (LARGE SIDE INLET)
323-2	MANHOLE - CONCRETE BOX STORM DRAIN
324-2	MANHOLE SHAFT WITH ECCENTRIC REDUCER
331-3	JUNCTION STRUCTURE - PIPE TO PIPE INLET ID>24" (600 mm) OR OD $\geq \frac{1}{2}$ MA
380-4	CONCRETE COLLAR FOR RCP 12" (300 mm) THROUGH 72" (1800 mm)
630-3	24" (610 mm) MANHOLE FRAME AND COVER
636-2	POLYPROPYLENE - PLASTIC STEP

MS-12 BOLLARD DETAIL  
RD-11 CURB AND GUTTER AND/OR SIDEWALK  
WA-12 WATER MAIN-VALVE FITTING ARRANGEMENT  
WA-13 THRUST BLOCK DETAILS  
WA-21B VALVE BOX AND RISER  
WA-22A VALVE STEM EXTENSION  
WA-28A WATERLINE LOWERING DETAIL

APN	ASSESSORS PARCEL NUMBER	IN	INCH
APWA	AMERICAN PUBLIC WORKS ASSOC.	MJ	MECHANICAL JOINT
AT	ARCHITRCTURAL TEXTURE	n	MANNING'S COEFFICIENT
BW	BOTH WAYS	N	NORTH OR NORTHING
CFS	CUBIC FEET PER SECOND	OC	ON CENTER
CL or C/L	CENTER LINE	(P)	PROPOSED
CALTRANS	STATE OF CALIFORNIA	PK	PK NAIL
	DEPARTMENT OF TRANSPORTATION	Q	FLOW VELOCITY
COUNTY	COUNTY OF SANTA BARBARA	R1	RECORD PER BOOK M
CP	CONTROL POINT		PAGE NN OF MAPS
DI	DUCTILE IRON OR DROP INLET	S	SEWER OR SLOPE OR
DW	DRIVEWAY	SDMH	STORM DRAIN MANHO
(E)	EXISTING	SH	SHINER
E	EAST OR EASTING	SPK	SPIKE
EG	EXISTING GROUND	S/W	SIDEWALK
EGL	ENERGY GRADE LINE	tw or tw	TOP OF WALL
EL	ELEVATION	TCE	TEMPORARY CONSTRU
EP	EDGE OF PAVEMENT		EASEMENT
ELEC	ELECTRIC	TCBM	TIE CONCRETE BLOCK
FD	FOUND	TBM	TEMPORARY BENCH M
FT	FEET	TOB	TOP OF CHANNEL BA
G	GAS LINE	TOE	TOE OF CHANNEL BA
GB	GRADE BREAK	TSW	TOP OF SIDEWALK
HDPE	HIGH DENSITY POLYETHYLENE	TP	TOP OF PAVEMENT
HGL	HYDRAULIC GRADE LINE	W or WL	WATER LINE
IP	IRON PIPE	WF	WALL FACE
		WWF	WELDED WIRE FABRIC
		V	VELOCITY
		VB	VALVE BOX

<u>CONTROL POINT TABLE</u>					
<u>CONTROL POINT#</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>ELEVATION</u>	<u>DESCRIPTION</u>	<u>RECORD</u>
CP1008	2156748.33	5830361.36	272.57	2 1/2 INCH BRASS CAP IN MON WELL SANTA MARIA CITY NETWORK MONUMENT	RS 147/57-61

<u>MONUMENT#</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>ELEVATION</u>	<u>DESCRIPTION</u>	<u>RECORD</u>
MON53	2158647.592	5828795.618	252.20	FOUND MAG NAIL AND SHINER AERIAL PANEL	NO RECORD
MON200	2158586.371	5828551.105	253.71	FOUND 3/4" PIPE OPEN	RS 82/67
MON201	2157781.097	5830390.937	272.04	FOUND PIPE WITH 2" BRASS CAP STAMPED, "G"	RS 82/67
MON202	2156866.315	5830367.483	269.91	3/4" PIPE WITH TAG MARKED, "LS 3166"	RS 82/67
MON203	2159476.951	5828577.645	240.11	FOUND PIPE WITH 2" BRASS CAP STAMPED, "G"	RS 82/67
MON204	2158629.245	5830411.969	268.13	FOUND 1-1/4" PIPE WITH COPPER DISC, "0+00 SBCO"	RS 67/42
MON205	2159324.947	5830430.523	265.20	FOUND 3/4" PIPE OPEN	PM 40/27
MON206	2157470.285	5830383.005	272.073	3/4 PLASTIC CAP LS 4597	PM 44/72
MON207	2157426.837	5830381.860	271.782	3/4 PLASTIC CAP LS 4597	PM 44/72
MON208	2157389.734	5830383.477	271.236	FOUND 3/4 PLASTIC CAP LS 4597	PM 44/72
MON209	2156888.597	5830394.950	270.694	FOUND NAIL & TAG IN SIDEWALK LS 4597	PM 44/72
MON210	2157174.641	5830404.073	271.796	FOUND 3/4 IN PIPE PLASTIC PLUG MARKED LS 4597	PM 44/72

Horizontal positions were derived from GPS-RTK observation holding base station at CP1008 fixed as shown as Station 1008 on Record of Survey recorded in book 147 pages 57-61 in the office of the County Surveyors Recorder

Horizontal datum of the network is NAD 83 (1992) based on California Coordinate System 1983 (CCS83) Zone 5. Vertical datum of the network is NAVD 88.

*Elevations (orthometric heights) were derived by GPS-RTK observation and converted to the North American Vertical Datum 1988 (NAVD88) using the National Geodetic Survey's program GEOID99 holding base station at CP1008 fixed.*

*All coordinate values shown are grid values. All distances are based on the U.S. Survey Foot  
(one survey foot = 1200/3937 meters).*

The contour interval is shown at 1 foot intervals with majors at every 5 feet



*The Basis of Bearings for Station 1008 coordinates shown on Record of Survey Book 147 pages 57-61 were established using HPGN stations "Grassy", "HPGN CA 05 05", and "HPGN CA 05 04".*

**(R#) REPAIR OR ALTERATION OF EXISTING STRUCTURES NOTES**

⑤ STORM DRAIN PIPE CONSTRU

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

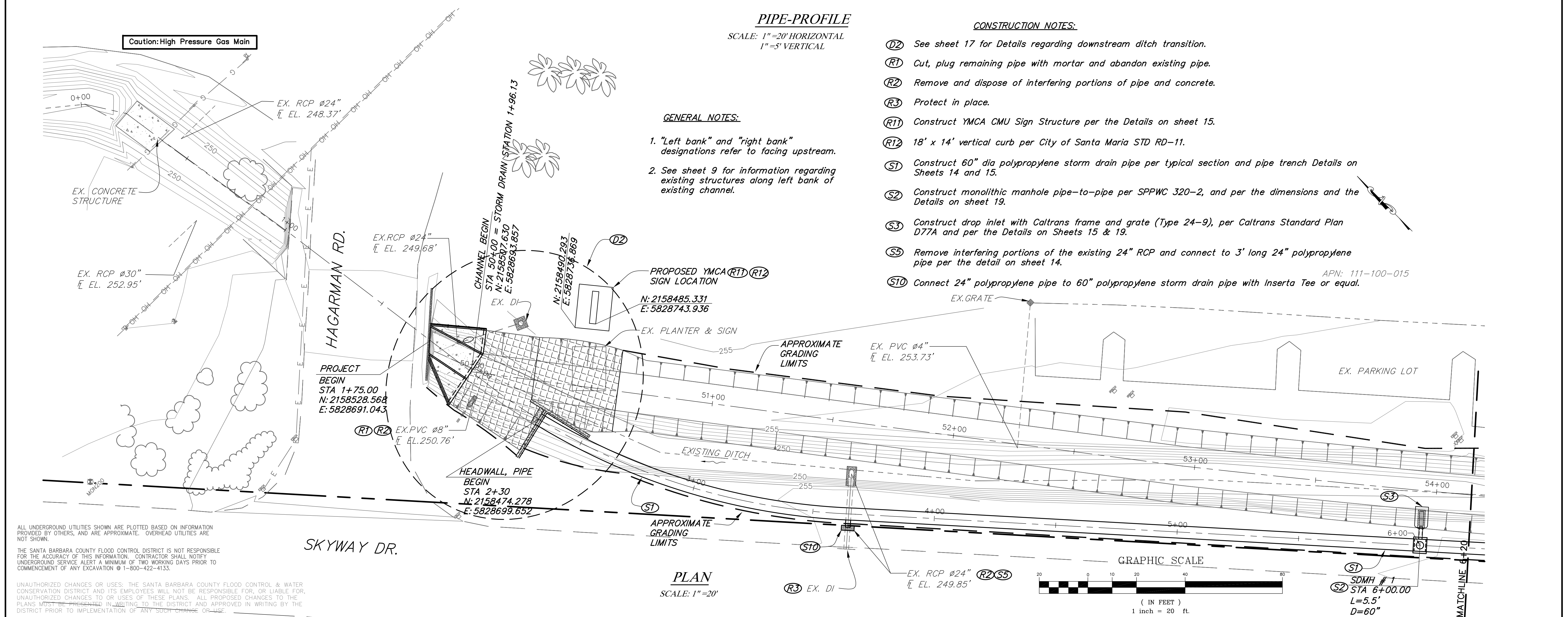
UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY  
FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS  
EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR,  
UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL  
PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN  
WRITING TO THE DISTRICT AND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

REVISIONS					DESIGNED BY: <u>Km Sullivan</u> 05-05-2017	<p>SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440</p>		<p>SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA</p>	<p>GENERAL INFORMATION</p>	DESIGNED BY: KS	<p>O-1133</p> <hr/> <p>SHEET 2 OF 22</p> <p>Filename: AIRPORT_DITCH_master_design.dwg</p>
NO.	DESCRIPTION	DATE	APR		FLOOD CONTROL DESIGN ENGINEER DATE					DRAWN BY: OR	
										CHECKED BY: SB/JF	









REVISIONS NO. DESCRIPTION DATE APR					DESIGNED BY: <i>Km Sullivan</i> 05-05-2017 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		SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	<h1>STORM DRAIN PIPE PLAN AND PROFILE</h1>	DESIGNED BY: KS	<h1>O-1133</h1>
					DRAWN BY: OR					SHEET 4 OF 22 <small>Filename: AIRPORT_DITCH_master_design.dwg</small>	
					CHECKED BY: JF						

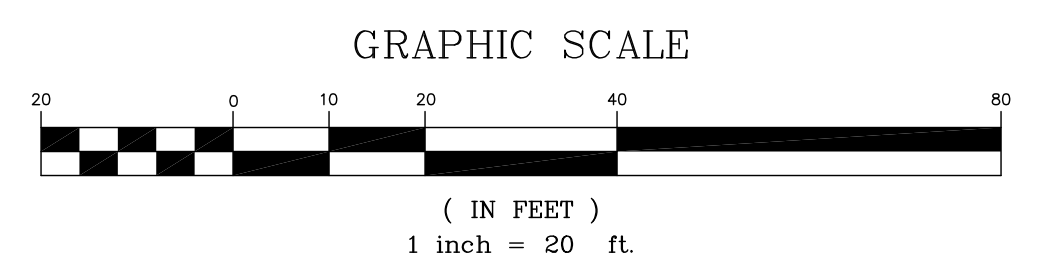
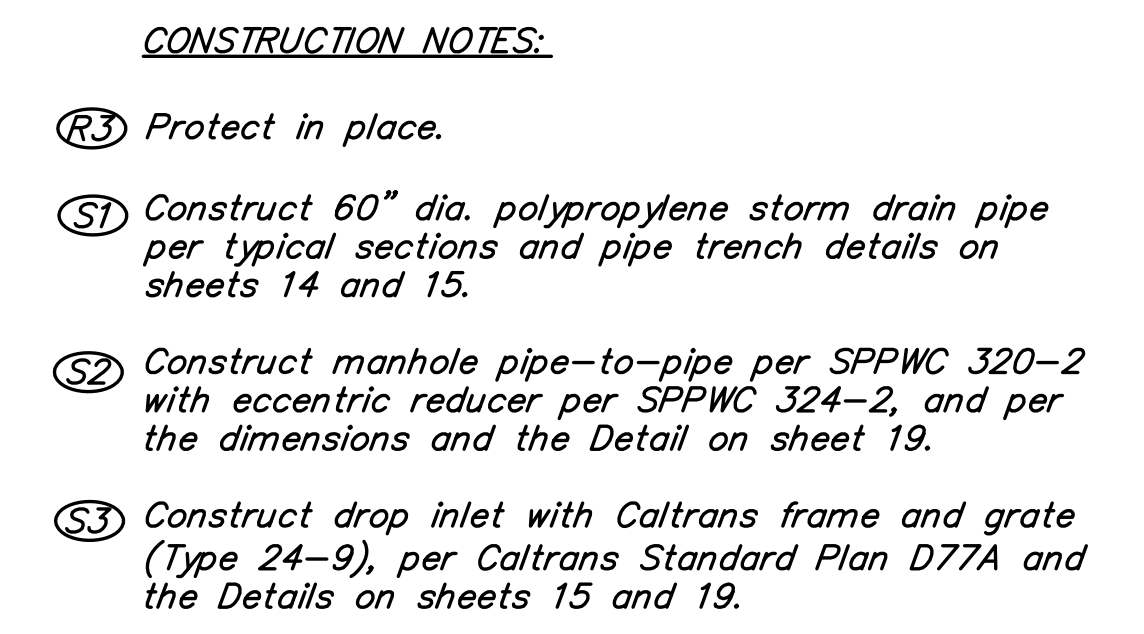






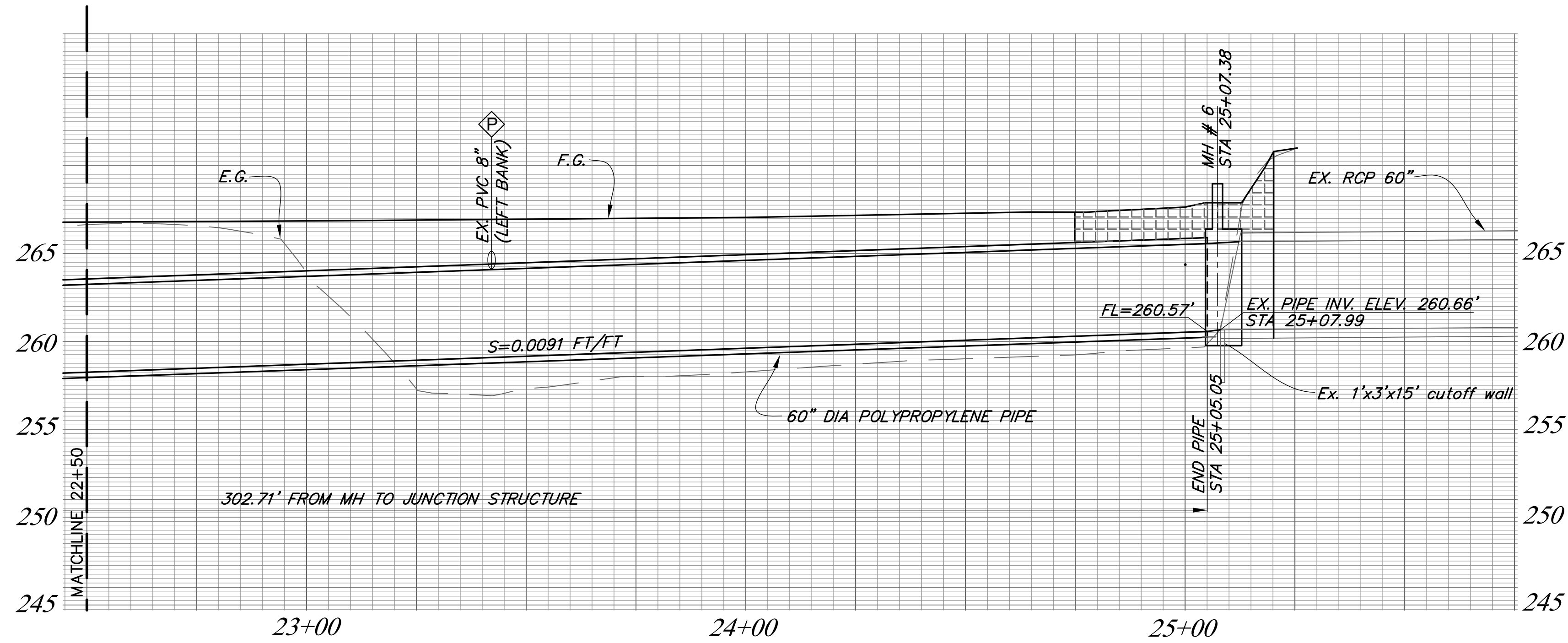






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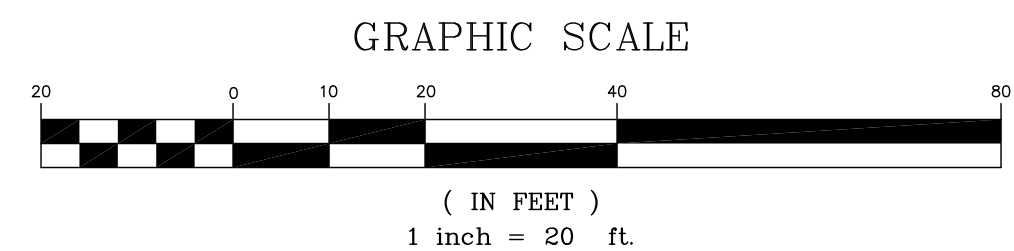
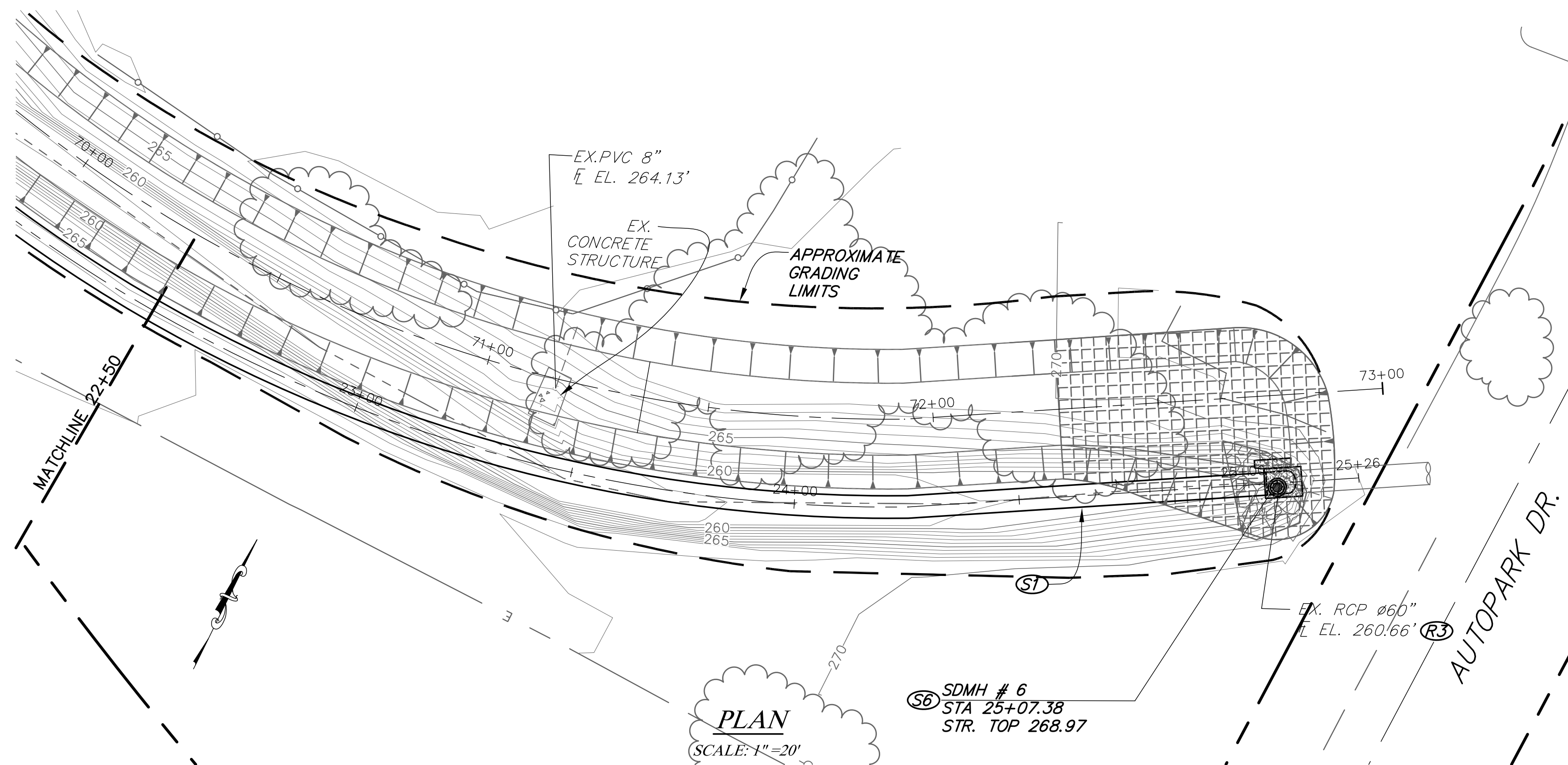




**PIPE-PROFILE**  
SCALE: 1" = 20' HORIZONTAL  
1" = 5' VERTICAL

- CONSTRUCTION NOTES:**
- (R3) Protect in place.
  - (S1) Construct 60" dia. polypropylene storm drain pipe per typical sections and pipe trench details on Sheets 14 and 15..
  - (S6) Construct manhole pipe-to-pipe per SPPWC 322-2, side opening per SPPWC-310-3 and per the Detail on sheet 16.

- GENERAL NOTES:**
- "Left bank" and "right bank" designations refer to facing upstream.
  - See sheet 13 for information regarding existing structures along left bank of existing channel.



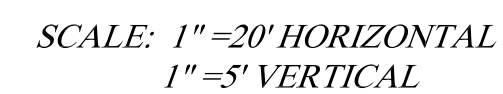
ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

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 @ 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.

REVISIONS					DESIGNED BY: <i>Km Sullivan</i> FLOOD CONTROL DESIGN ENGINEER	DATE: 05-05-2017	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440		SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT  AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	STORM DRAIN PIPE PLAN AND PROFILE		DESIGNED BY:	O-1133	
NO.	DESCRIPTION	DATE	APR									KS		
												DRAWN BY:		
												OR		
												CHECKED BY:		
												JF	SHEET 8 OF 22	Filename: AIRPORT_DITCH_master_design.dwg





(R3) *Protect in place.*

(R4) *Remove and dispose of existing vertical curb, concrete stem wall and CMU wall. Salvage metal sign attached to CMU wall. Cut & cap existing electrical wiring, conduit and equipment.*

(D1) *Construct 16' wide x 2.5' high earthen ditch with 3H:1V side slopes.*

(D2) *See sheet 17 for Details regarding downstream ditch transition.*

(D3) *Trim existing 4" PVC pipe flush with proposed ditch slope per the Detail on sheet 15.*

1. "Left bank" and "right bank" designations refer to facing upstream.
2. See sheet 4 for information regarding existing structures along right bank of existing channel.



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05-05-2017

## OPEN CHANNEL PLAN AND PROFILE

O-1133

SHEET 9 OF 22

Filename: AIRPORT\_DITCH\_master\_design.dwg



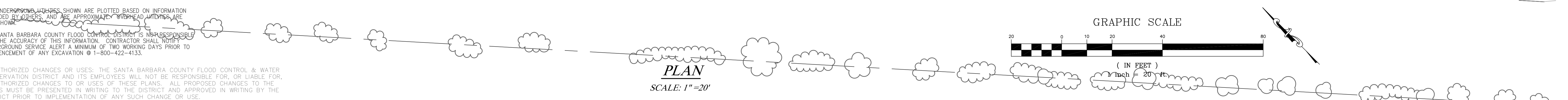




SCALE: 1"=20' HORIZONTAL  
1"=5' VERTICAL

①1 Construct 16' wide x 2.5' high earthen ditch with 3H:1V side slopes.

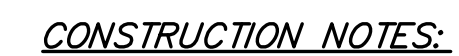
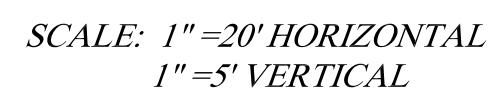
①6 Conform to existing swale.



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.

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NO.	DESCRIPTION	DATE	APR		FLOOD CONTROL DESIGN ENGINEER						DATE		DRAWN BY: OR	SHEET 11 OF 22
													CHECKED BY: JF	Filename: AIRPORT_DITCH_master_design.dwg

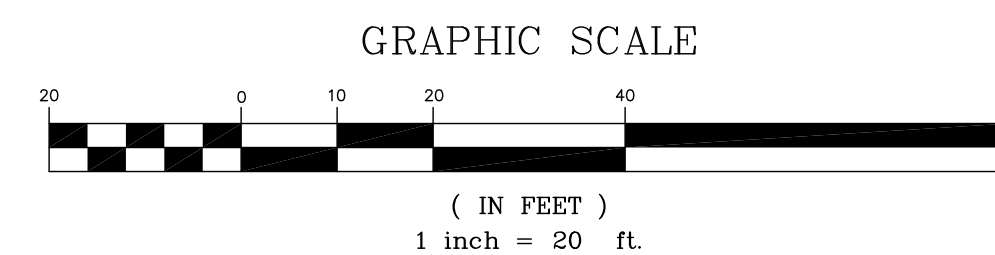




- (R3) *Protect in place.*
- (R7) *Remove and replace chain link fence.*
- (D1) *Construct 16' wide x 2.5' high earthen ditch with 3H:1V side slopes.*
- (D6) *Conform to existing swale.*

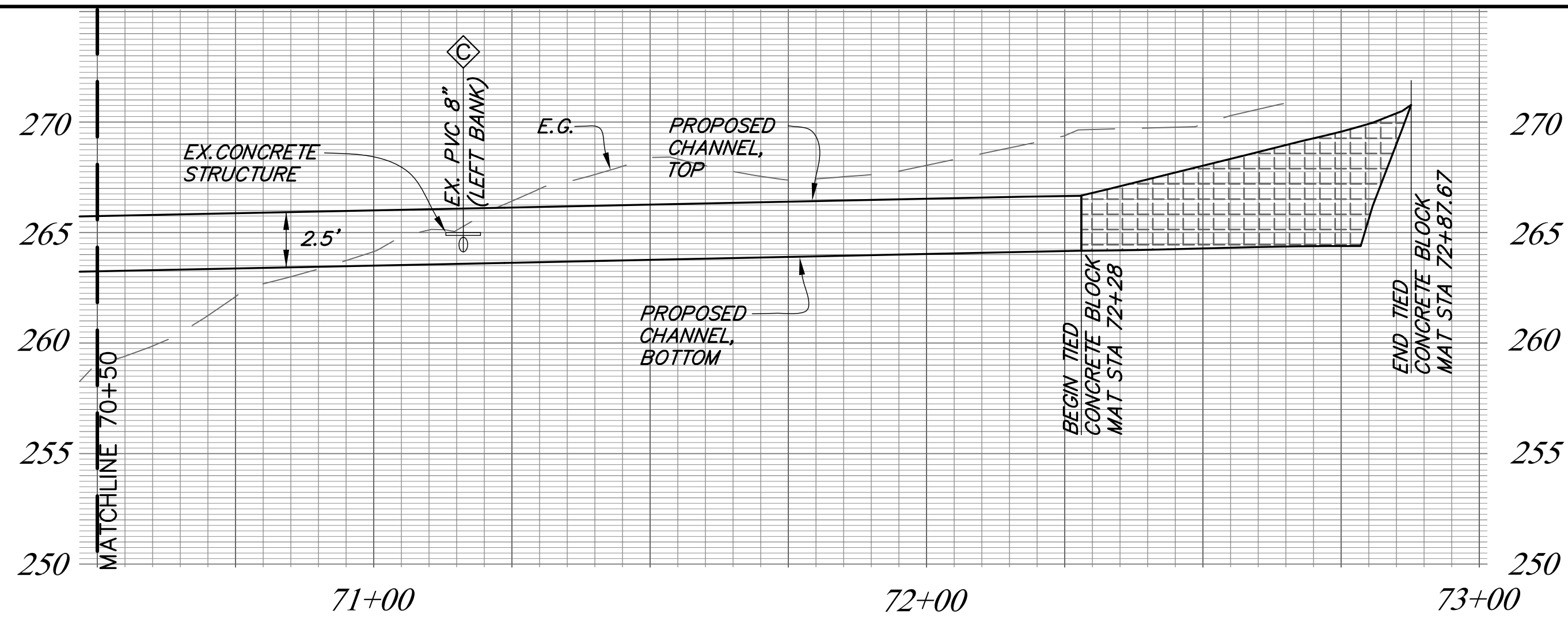
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PLAN  
SCALE: 1"=20'

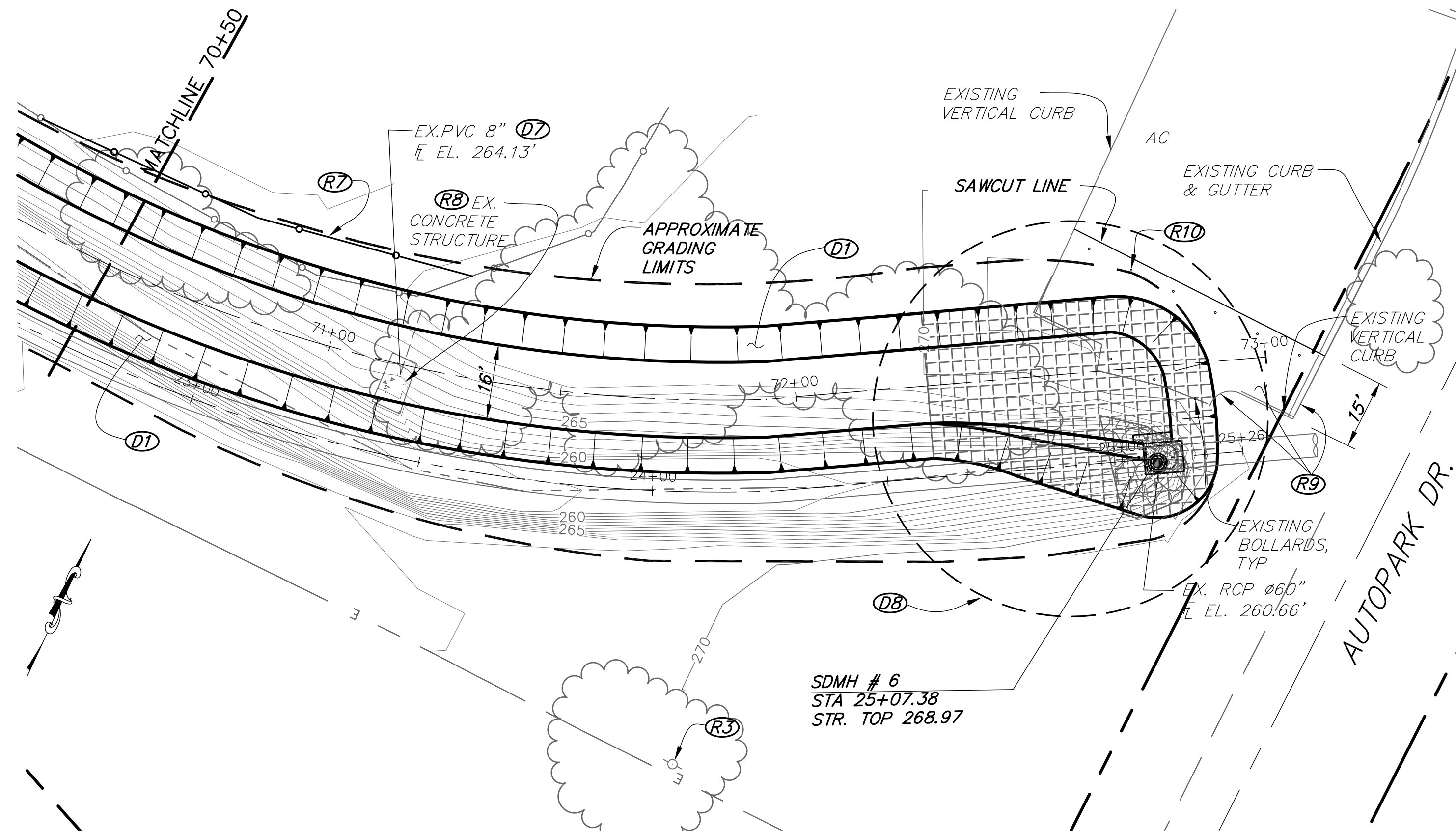


REVISIONS					DESIGNED BY: <u>Km Sullivan</u>	05-05-2017		SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	OPEN CHANNEL PLAN AND PROFILE	DESIGNED BY: KS	O-1133	
NO.	DESCRIPTION	DATE	APR		FLOOD CONTROL DESIGN ENGINEER	DATE				DRAWN BY: OR		SHEET 12 OF 22
										Filename: AIRPORT_DITCH_master_design.dwg		





**CHANNEL PROFILE**  
SCALE: 1"=20' HORIZONTAL  
1"=5' VERTICAL

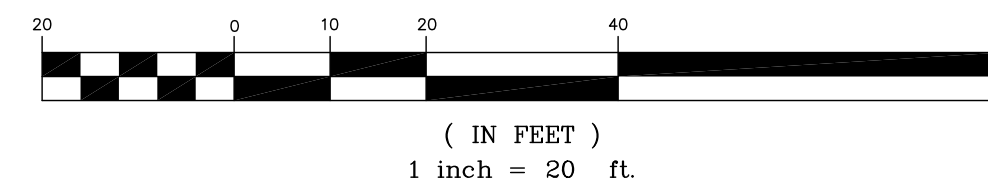


**PLAN**  
SCALE: 1"=20'

**CONSTRUCTION NOTES:**

- (R3) Protect in place.
- (R7) Remove and replace chain link fence.
- (R8) Remove and dispose of existing concrete structure.
- (R9) Sawcut & remove vertical curb, curb and gutter, bollards and AC pavement to the limits shown.
- (R10) Place 6 bollards @ 10' on center per City of Santa Maria Standard Plan MS-12.
- (D1) Construct 16' wide x 2.5' high earthen ditch with 3H:1V side slopes.
- (D7) Trim 8" PVC pipe, flush with proposed ditch slope per the Details on sheet 15.
- (D8) See sheet 16 for Details, Upstream ditch transition.

**GRAPHIC SCALE**



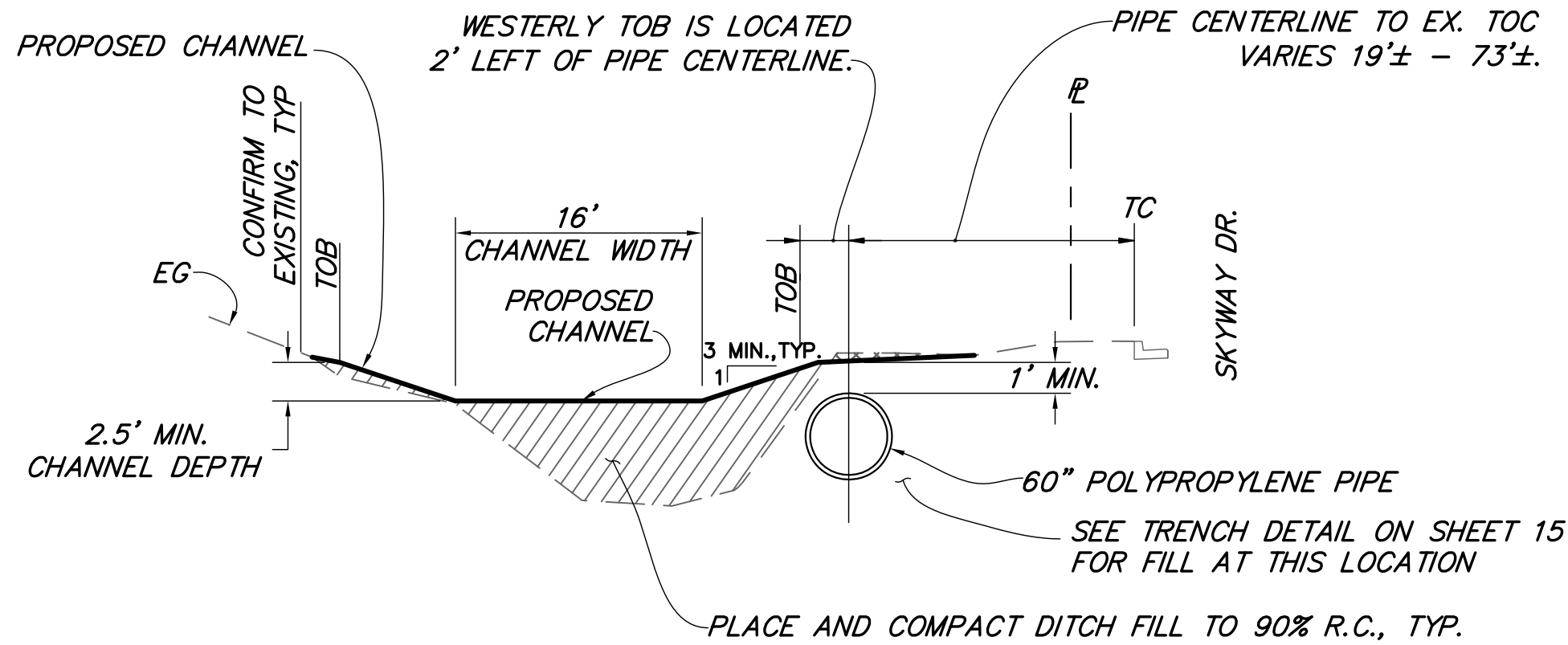
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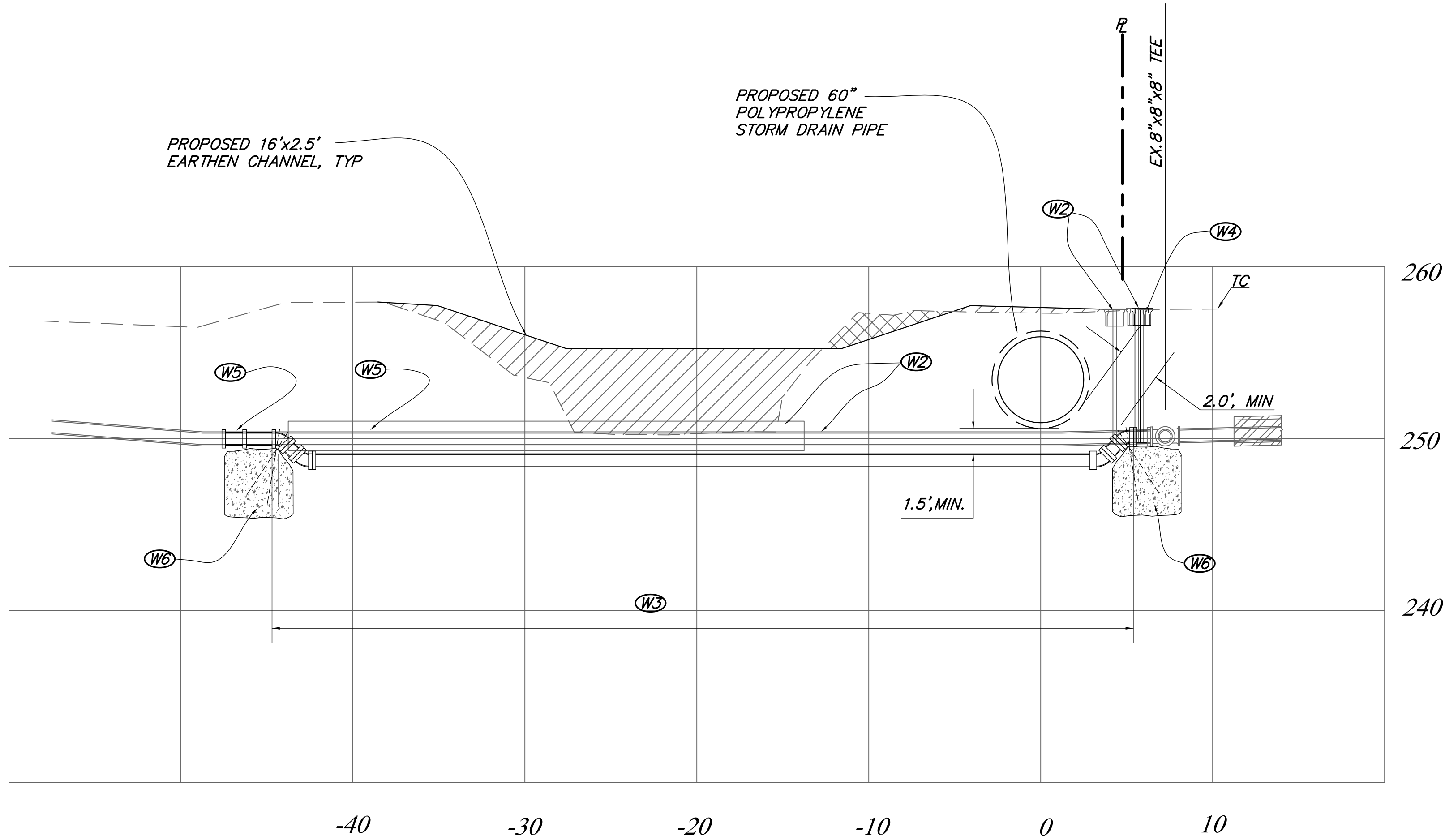
UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED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

REVISIONS				DESIGNED BY: <i>Karen M. Sullivan</i> FLOOD CONTROL DESIGN ENGINEER 05-05-2017 DATE	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440		SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	OPEN CHANNEL PLAN AND PROFILE	DESIGNED BY:	O-1133
NO.	DESCRIPTION	DATE	APR						KS	
									DRAWN BY:	
									OR	
									CHECKED BY:	
									JF	SHEET 13 OF 22
										Filename: AIRPORT_DITCH_master_design.dwg



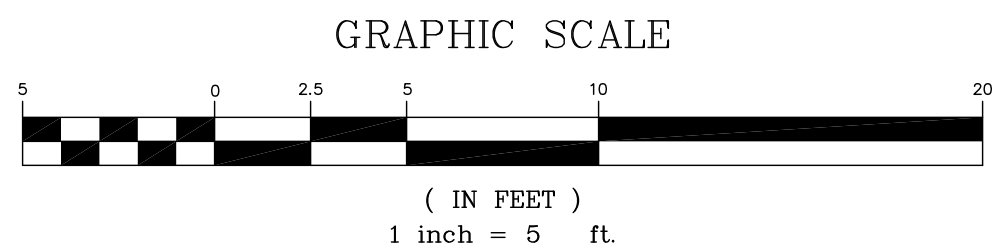


**PROPOSED TYPICAL SECTION**  
**PIPE STA 2+30± TO STA 7+00±**  
**NTS**



**STA 6+93.03**  
**water line lowering**

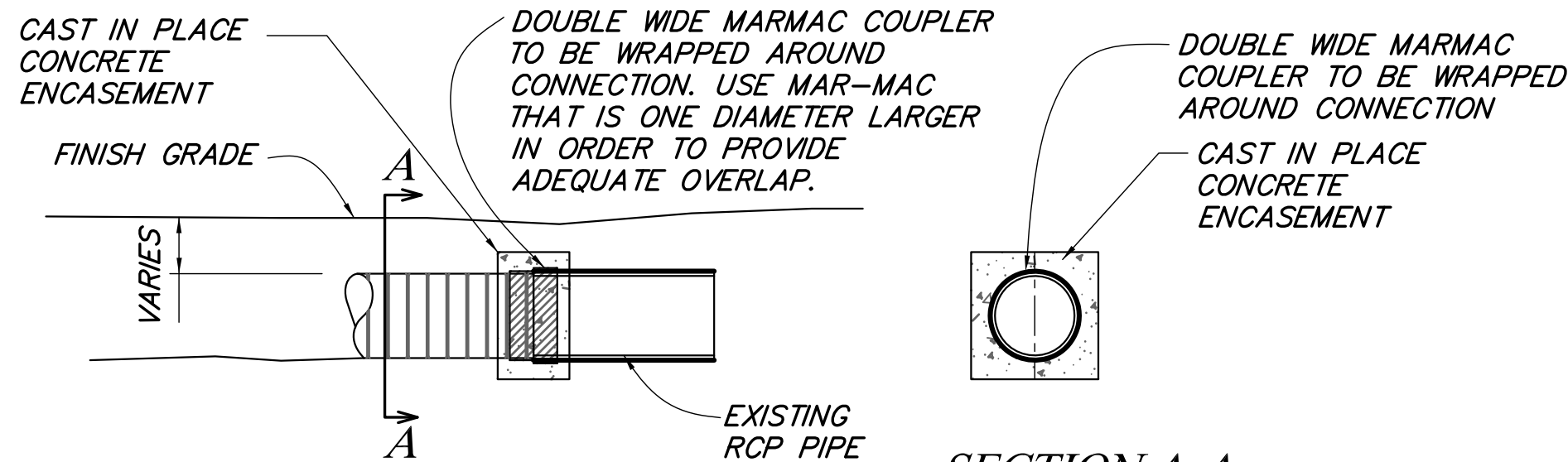
SCALE: 1" = 5' HORIZONTAL  
1" = 5' VERTICAL



**CONSTRUCTION NOTES:**

**STA 6+93.03**

- W2 Remove and dispose of existing gate valves, interfering portions AC pipe, steel sleeve and fittings.
- W3 8" ductile iron water main lowering per City of Santa Maria Standard Drawing WA-28A.
- W4 Install 8" resilient wedge gate valve, box, riser and valve stem extension per City of Santa Maria Standard Drawings WA-12A, WA-21B and WA-22A. Connect to existing tee.
- W5 Install 8" ductile iron to AC transition coupling, Romac, Mueller, JCM or approved equal.
- W6 Thrust block per City of Santa Maria Standard Drawing WA-13.



**SECTION A-A**  
**NTS**

**PROPOSED "HP TO RCP CONNECTION DETAIL" NOTES:**

1. An internal cylinder may be welded to the pipe to be inserted into the ID of the existing pipe and minimize joint movement. However, an internal cylinder is not recommended for downstream connections.

**POLYPROPYLENE TO RCP CONNECTION DETAIL**  
**NTS**

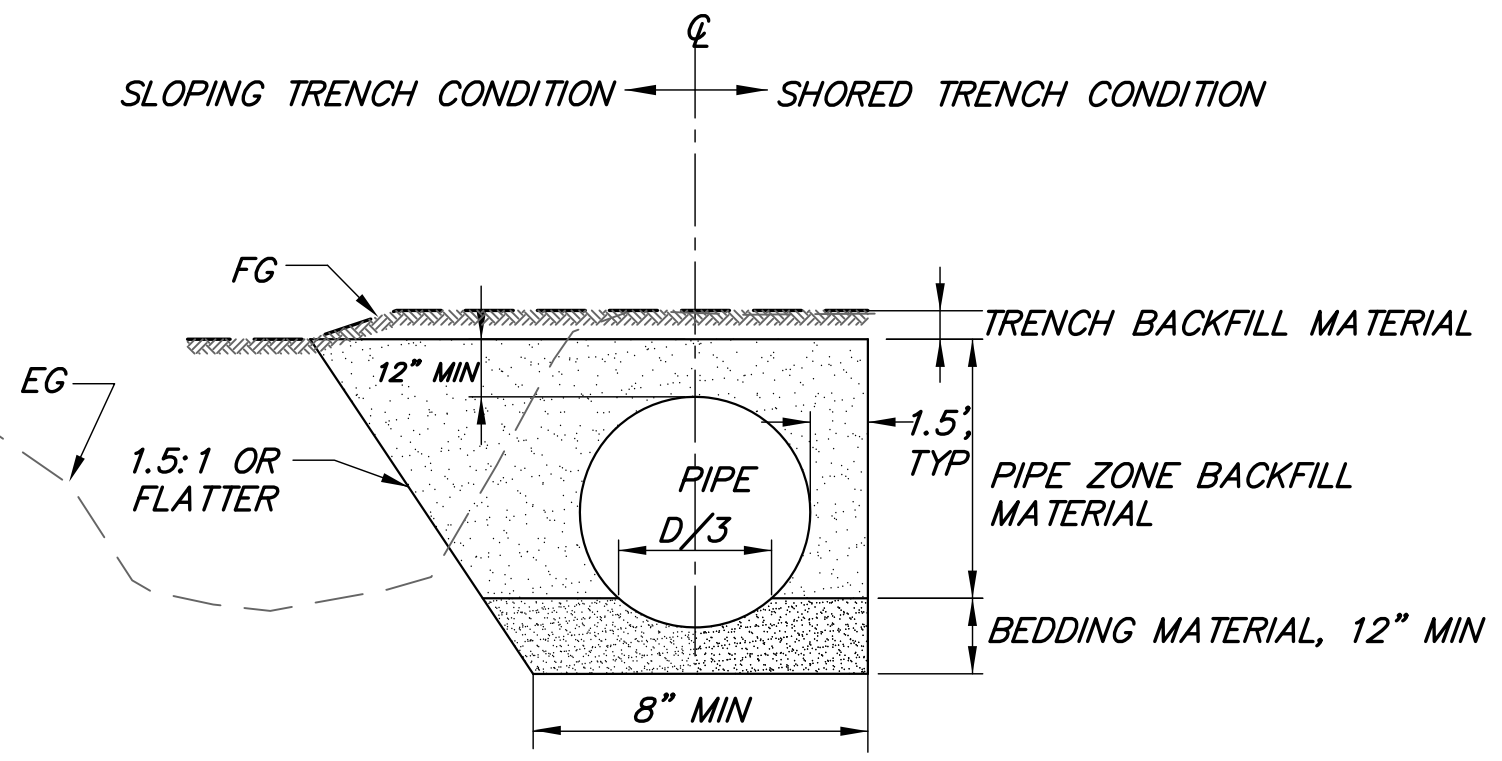
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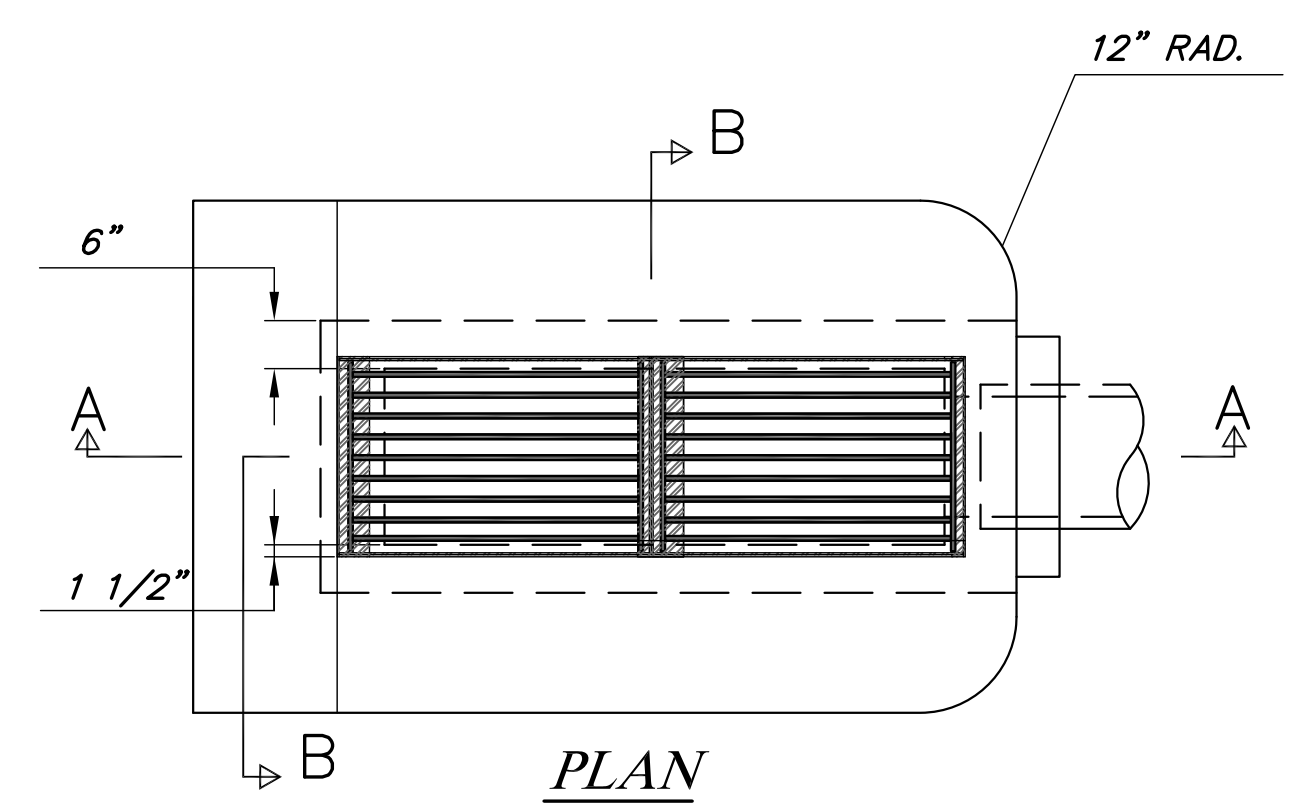
REVISIONS					 FLOOD CONTROL DESIGN ENGINEER	05-05-2017 DATE		SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440		SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	TYPICAL CHANNEL-SECTIONS AND PIPE TRENCH DETAILS	DESIGNED BY:	O-1133
NO.	DESCRIPTION	DATE	APR									KS	
												DRAWN BY:	
												OR	
												CHECKED BY:	
												JF	SHEET 14 OF 22
												Filename: AIRPORT_DITCH-master_design.dwg	



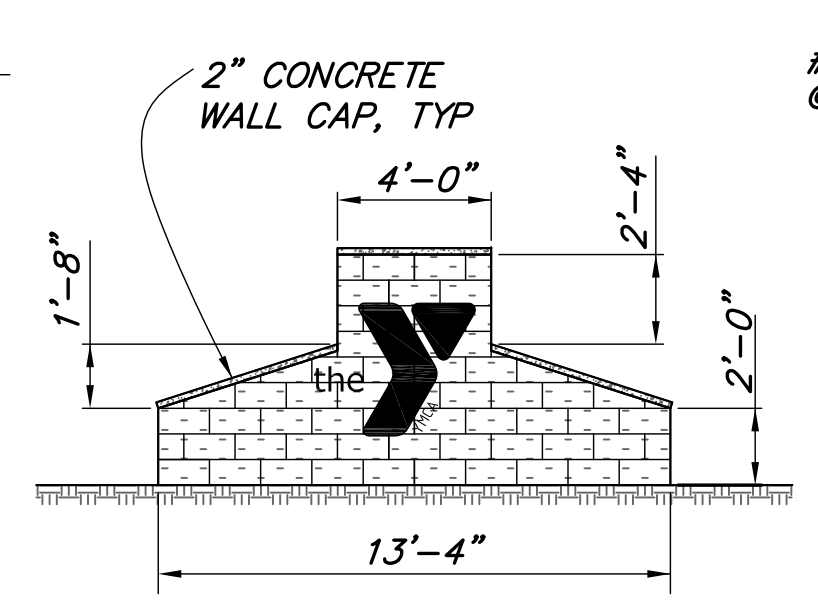


PIPE TRENCH DETAIL  
NTS

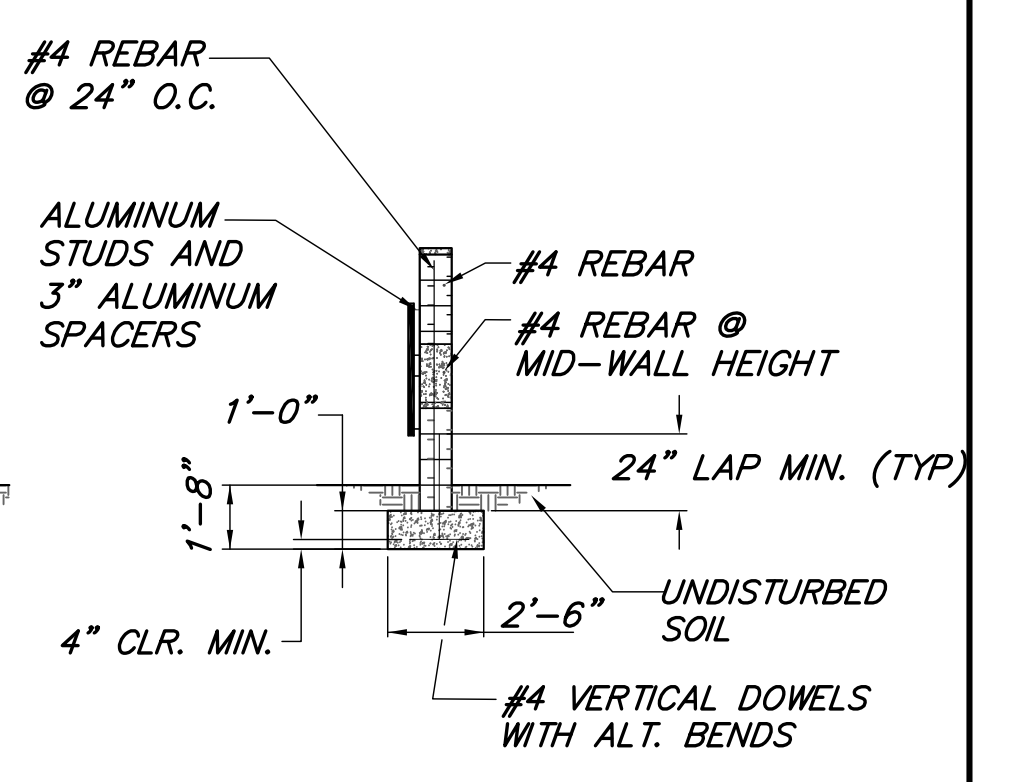
DROP INLET I.D.	d	c
DI 1 STA 6+00	0.83'	0.25'
DI 2 STA 10+65.59	0.82'	1.15'
DI 3 STA 14+00	0.89'	1.06'
DI 4 STA 18+00	0.89'	1.12'
DI 5 STA 22+00	0.80'	1.62'



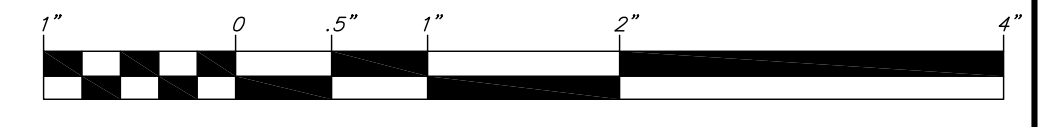
PLAN  
Scale: 1"=2'



YMCA CMU SIGN STRUCTURE  
NTS



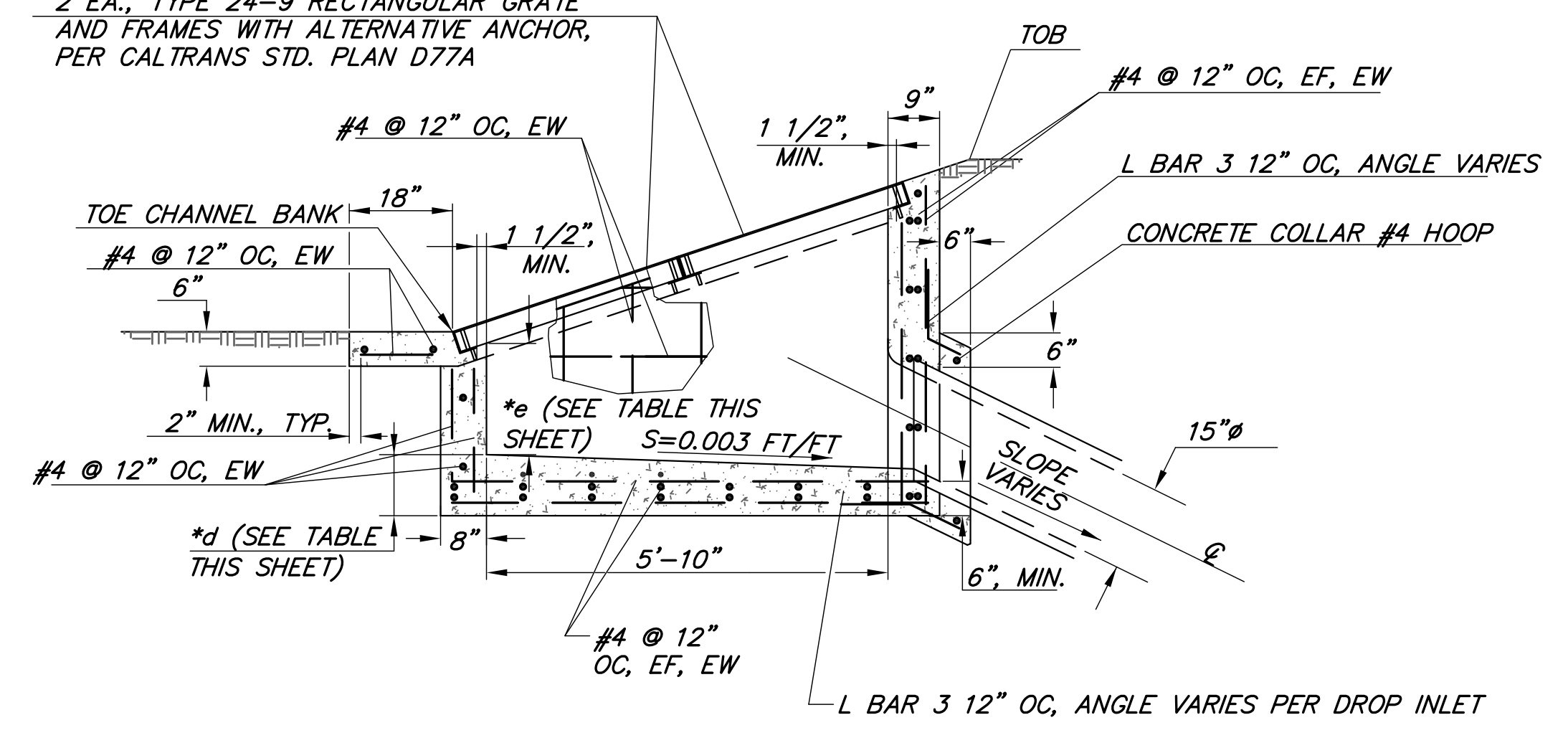
SECTION B-B  
Scale: 1"=2'  
GRAPHIC SCALE



PIPE TRENCH DETAIL NOTES

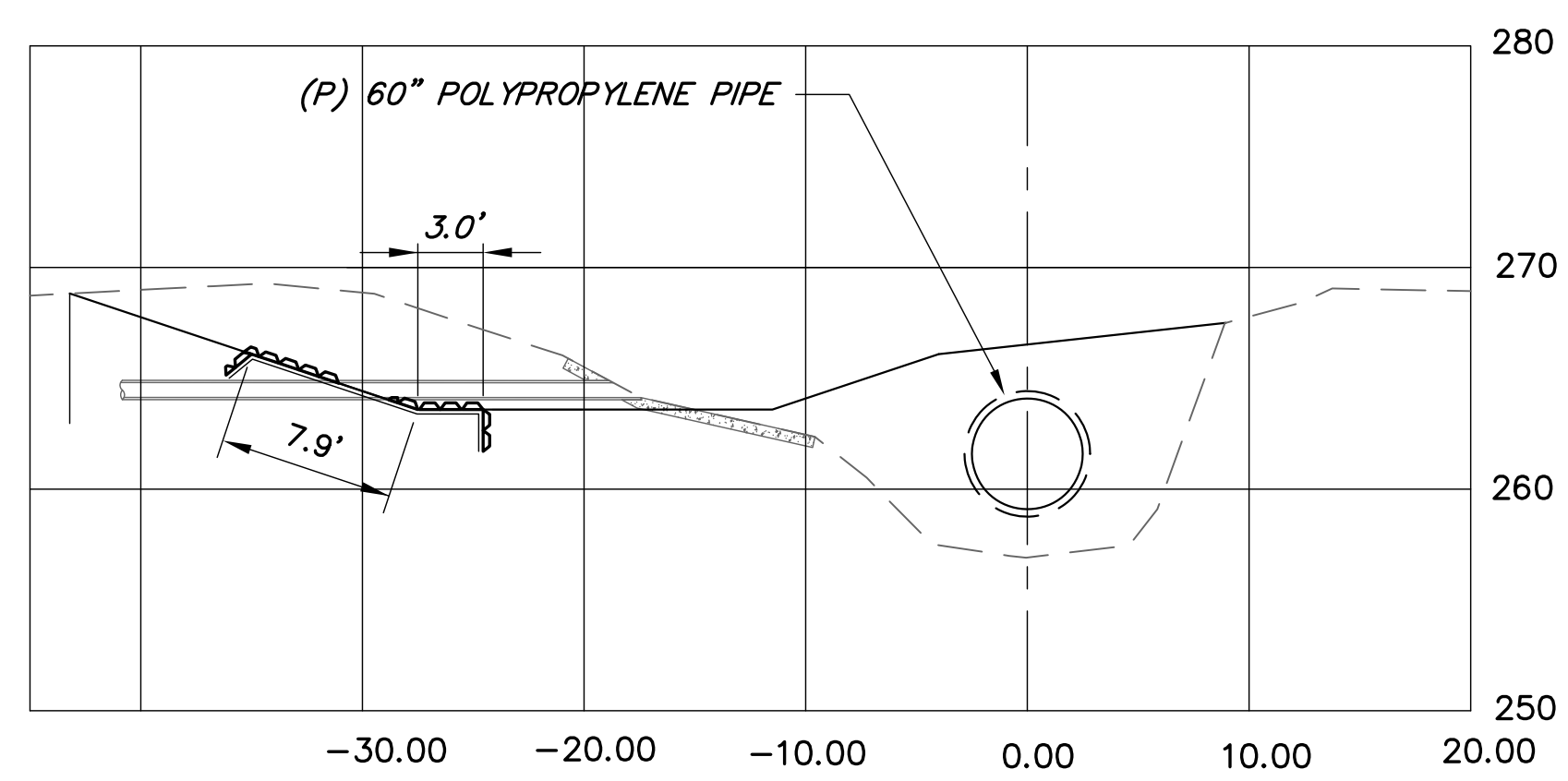
- Where depth between F.G. and top of pipe  $\geq 2'$ , bedding and pipe zone material shall conform to Greenbook Section 306-1.2.1, with a sand equivalent of at  $\geq 30$ , and a moisture contest within 2% of optimum.
- Where depth between F.G. and top of pipe  $< 2'$ , bedding and pipe zone material shall consist of Class 1 material (crushed angular rock) conforming to ASTM D2321.
- Where wet or yielding soil conditions are encountered at the bottom of the trench excavation, the subgrade shall be stabilized prior to placing bedding according to the recommendations of the Special Provisions.
- Trench backfill must be free of organics, debris or rocks  $> 3"$ , must contain  $< 15\%$  material  $\geq 2"$ , must have a moderate to low expansion potential ( $E1 \leq 50$ ), a sand equivalent of  $\geq 20$  and a moisture content within 2% of optimum.
- All material shall be placed in loose lift thickness  $\leq 8"$  and mechanically compacted to  $\geq 90\%$  RC as determined by ASTM D1557.
- Trenches 5' or deeper require a protection system considering of benching, sloping or shoring per OSHA Standard.

2 EA., TYPE 24-9 RECTANGULAR GRATE AND FRAMES WITH ALTERNATIVE ANCHOR, PER CALTRANS STD. PLAN D77A

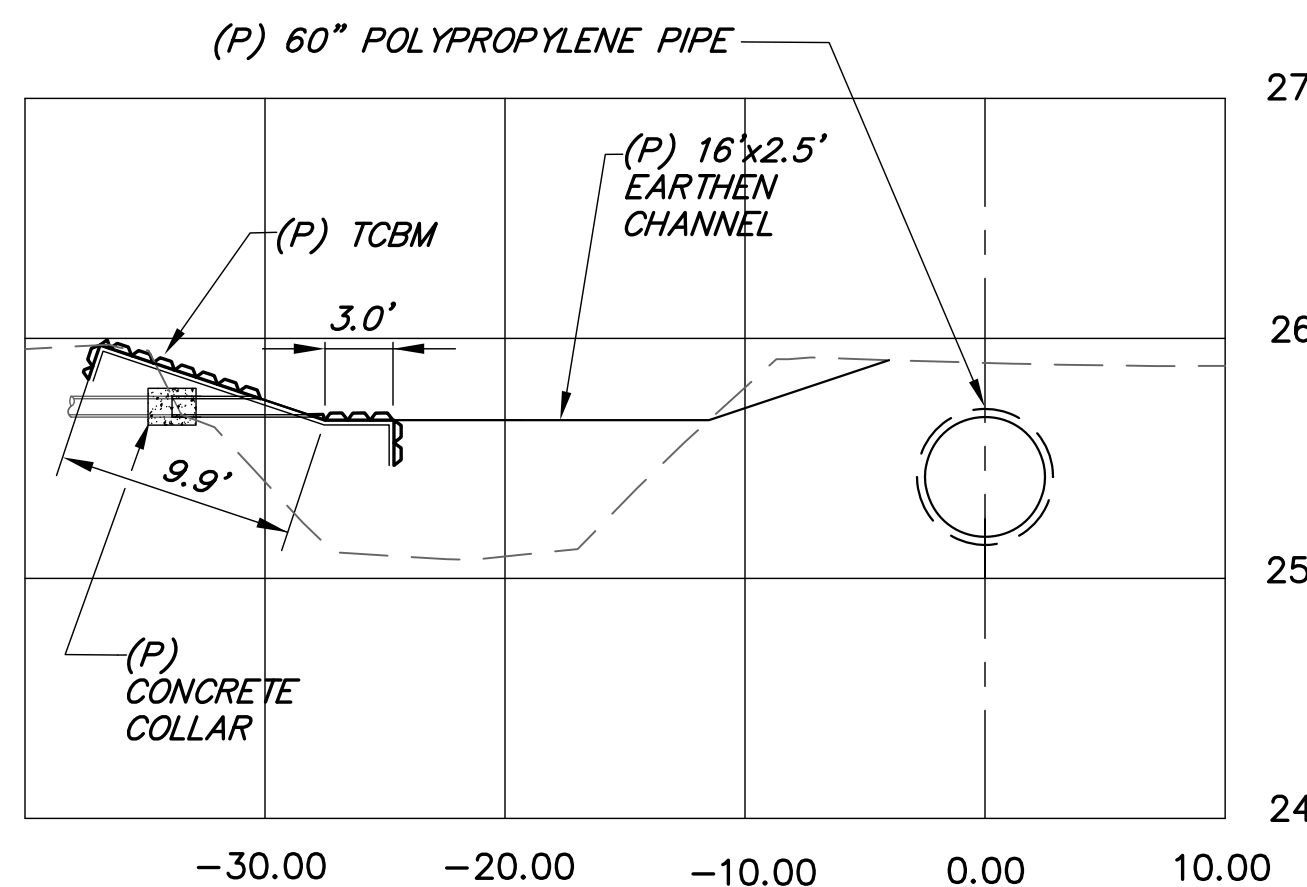


SECTION A-A  
Scale: 1"=2'

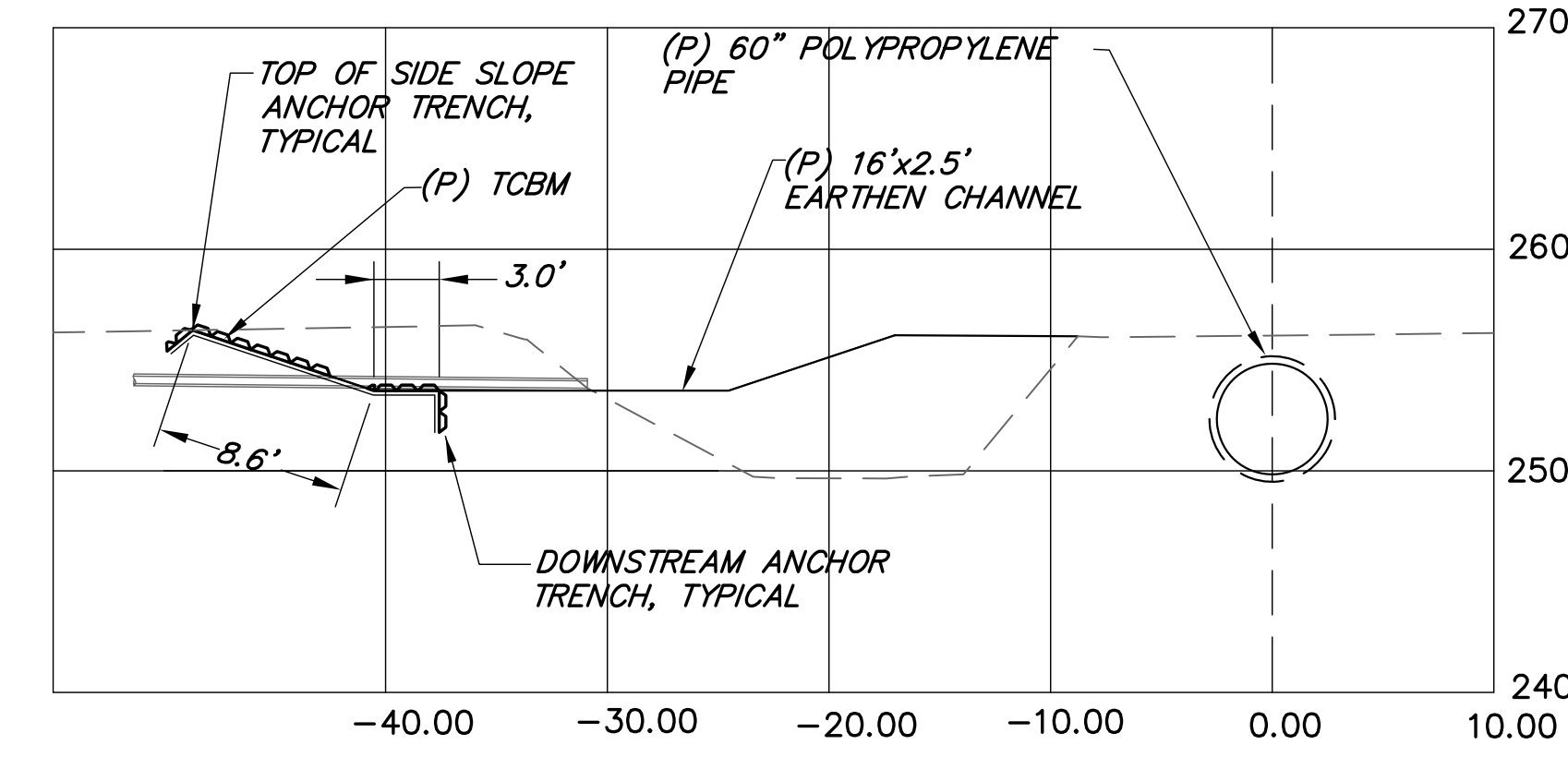
DROP INLET DETAIL  
NTS



(E) 8"Ø STORM DRAIN PIPE  
DITCH STA 71+16.16  
NTS



(E) 8"Ø STORM DRAIN PIPE  
DITCH STA 57+07.98  
NTS



(E) 4"Ø STORM DRAIN PIPE  
DITCH STA 52+26.74  
NTS

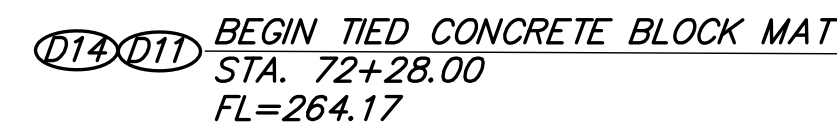
- Notes:
- Construct Tied Concrete Block Mat (TCBM) per details on sheet 18 and the manufacturers recommendations.
  - For upstream and downstream trench for pipes shown on this sheet, contractor may utilize 18" L anchors instead of cross plate percussion anchors.
  - Extend existing pipes to outlet at proposed channel with new pipe of same diameter and material. Construct minor concrete collar connection per SPPWC STD 380-4.
  - Trim exposed pipe flush with TCBM. Outlet Anchor trench detail does not apply.
  - TCBM width = 3.0', min.

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REVISIONS					Km Sullivan FLOOD CONTROL DESIGN ENGINEER	05-05-2017 DATE	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440		SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	DETAILS	DESIGNED BY:	O-1133
NO.	DESCRIPTION	DATE	APR								KS	
											DRAWN BY:	
											OR	
											CHECKED BY:	
				JF	SHEET 15 OF 22		Filename: AIRPORT_DITCH_master design.DWG					

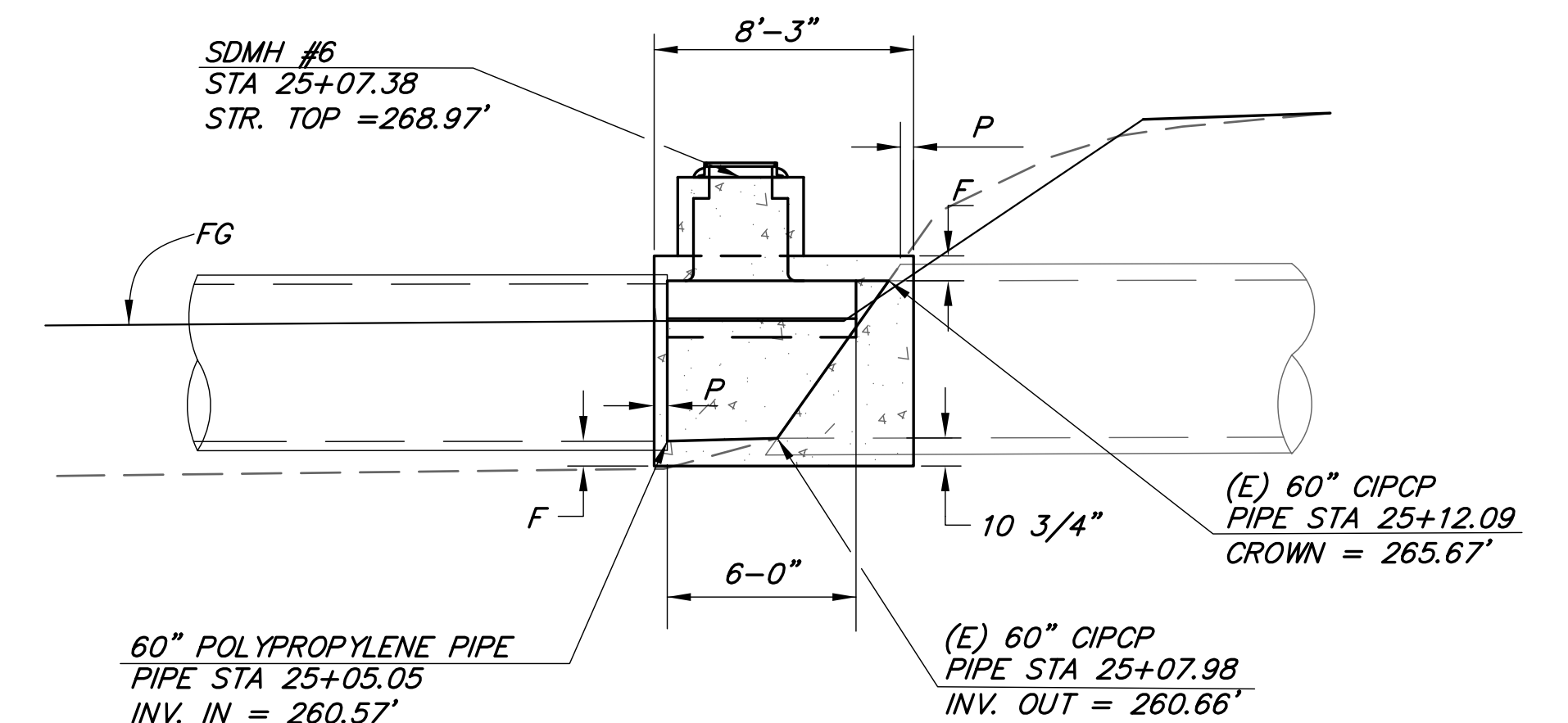




*Scale: 1"=5'*



*TCBM*



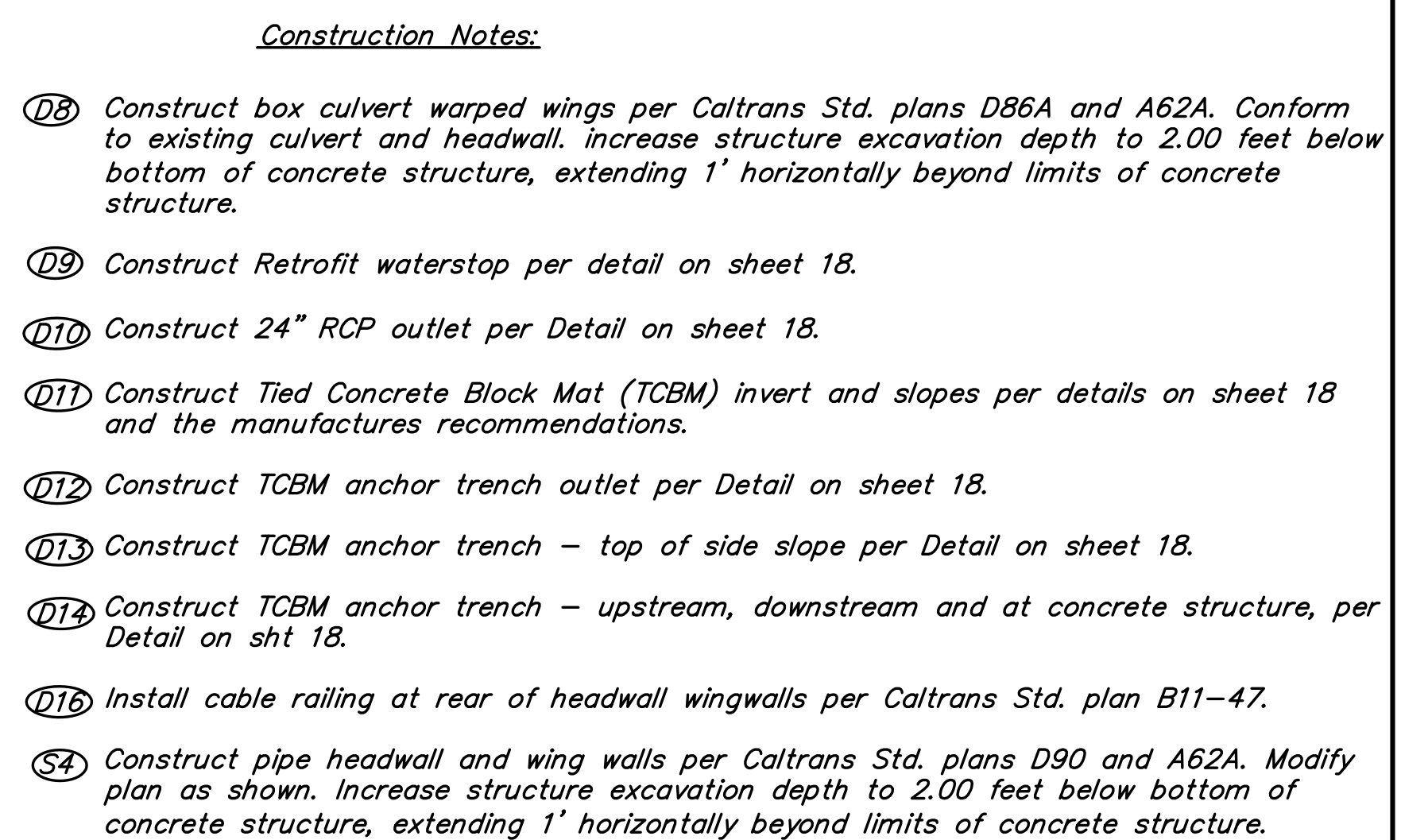
GRAPHIC SCALE

( IN FEET )  
1 inch = 5 ft.

1. Manhole pipe-to-pipe per SPPWC 322-2.  $F = 9\frac{1}{2}"$ ;  $P = 5\frac{1}{2}"$ , Min.
2. Face Plate Assembly and Protection Bar per SPPWC 310-3, as modified per the dimensions as shown in Detail C.
3. Ductile iron bolted manhole with locking grate, with grate slots located parallel to channel.
4. Install Tied Concrete Block Mat (TCBM) per the Details on sheet 18.

REVISIONS					<b>Km Sullivan</b> FLOOD CONTROL DESIGN ENGINEER	05-05-2017 DATE			SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	<b>UPSTREAM DITCH TRANSITION</b>	DESIGNED BY:	<b>O-1133</b>  SHEET 16 OF 22  Filename: AIRPORT_DITCH_master design.DWG
NO.	DESCRIPTION	DATE	APR								KS	
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											OR	
											CHECKED BY:	
											JF	





O-1133

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SHEET 17 OF 22

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Filename: AIRPORT\_DITCH-master\_design.DWG





Retrofit Waterstop Notes:

1. *Construct Retrofit waterstop between warped wing invert and existing culvert cutoff wall. Omit sealant on bottom side of invert.*
2. *Retrofit waterstop shall be "JP320L", manufactured by JP specialties (551 Birch St., Lake Elsinore, CA 92530), or approved equal. Follow manufacturer's recommendations for installation procedure.*



24" RCP outlet Notes:

1. Warped wingwall reinforcing steel not shown for clarity.
2. Saw cut RCP 3" from face of warped wingwall and construct 3" min concrete radius edge.
3. Construct modified catch basin connection (side connection), between 24" RCP and warped wingwall, per SPPWC 308-2.
4. Trim or adjust warped wingwall reinforcement to accommodate RCP outlet.

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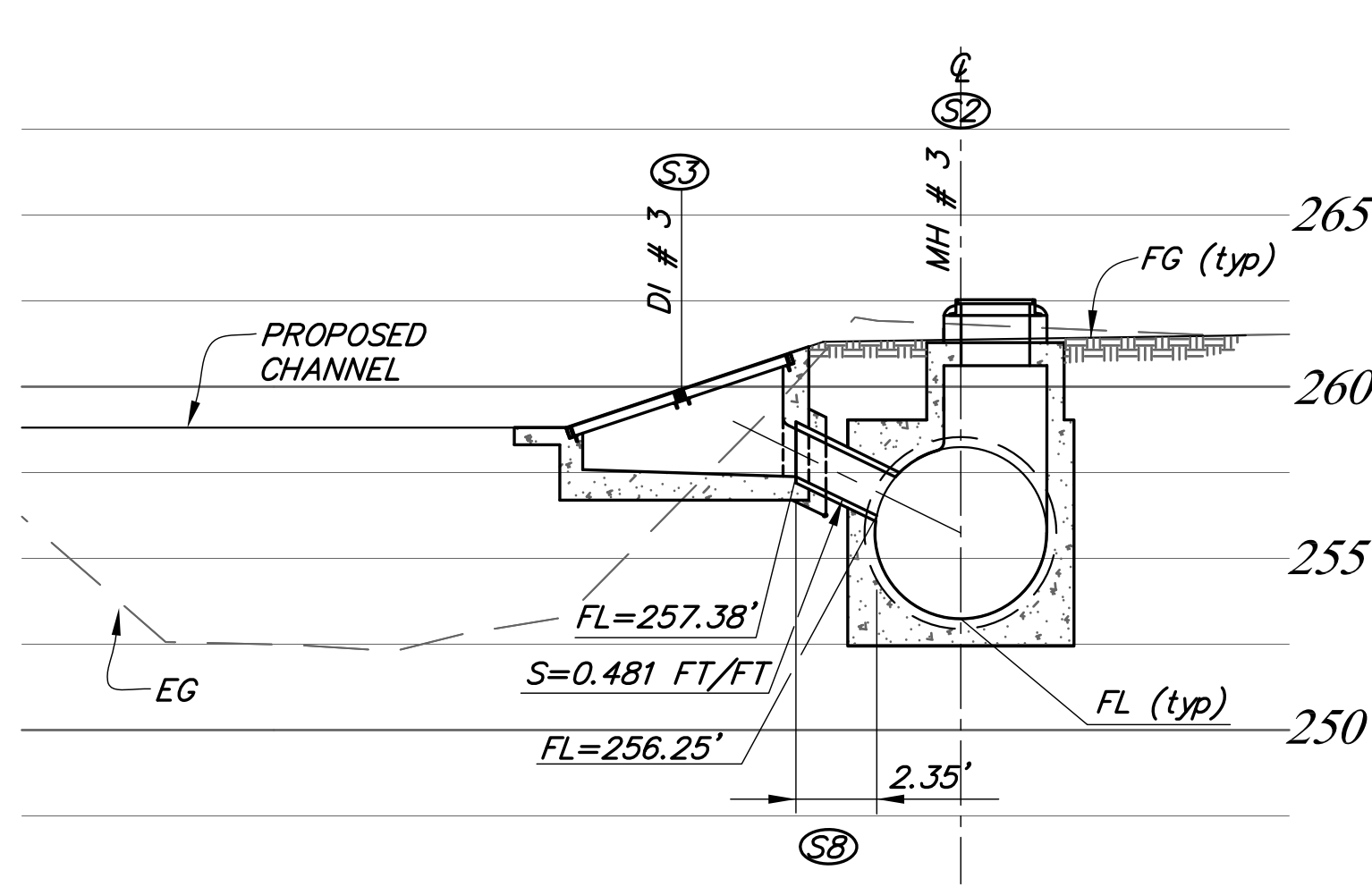


TCBM Notes:

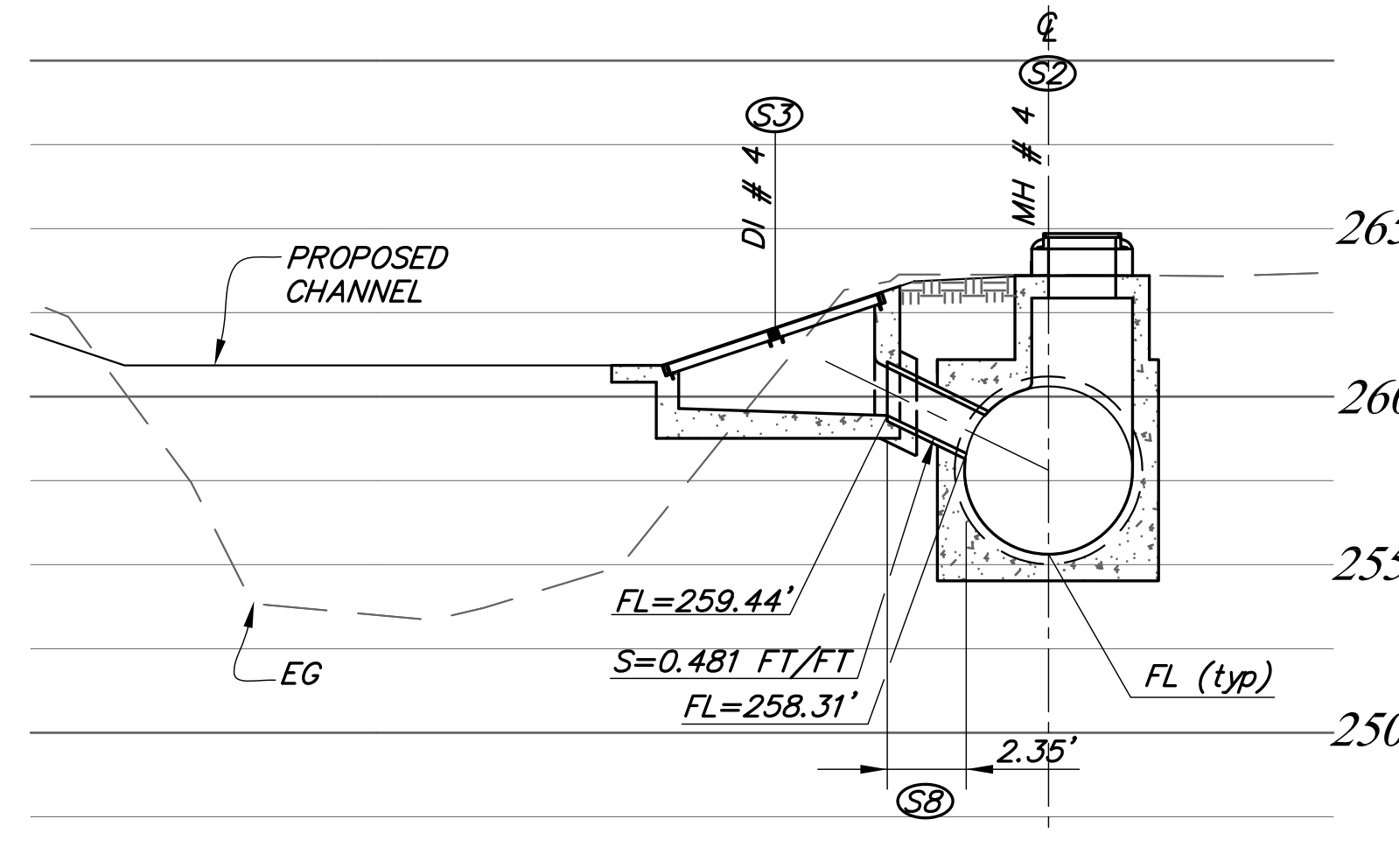
1. *Subgrade must be stable, uniformly graded, free of rocks, roots, and other debris.*
2. *Construct TCBM per manufacturer's recommendations. TCBM Details shown hereon are minimum requirements and are superceded by any manufacturer recommendations that are more stringent.*
3. *TCBM overlaps must conform to the details hereon.*
4. *TCBM constructed on side slopes with a slope steeper than 2:1 must be installed with Earth percussion anchors 3' center, max.*
5. *TCBM must be installed on rock slope protection fabric in accordance with the manufacturer's recommendations.*

REVISIONS					DESIGNED BY:		SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	DITCH TRANSITION DETAILS	DESIGNED BY:	O-1133			
NO.	DESCRIPTION	DATE	APR		<i>KM Sullivan</i>				KS/MG				
					FLOOD CONTROL DESIGN ENGINEER				05-05-2017		DRAWN BY:	OR	
									DATE		CHECKED BY:	JF	SHEET 18 OF 22
													Filename: AIRPORT_DITCH_MASTER.DWG

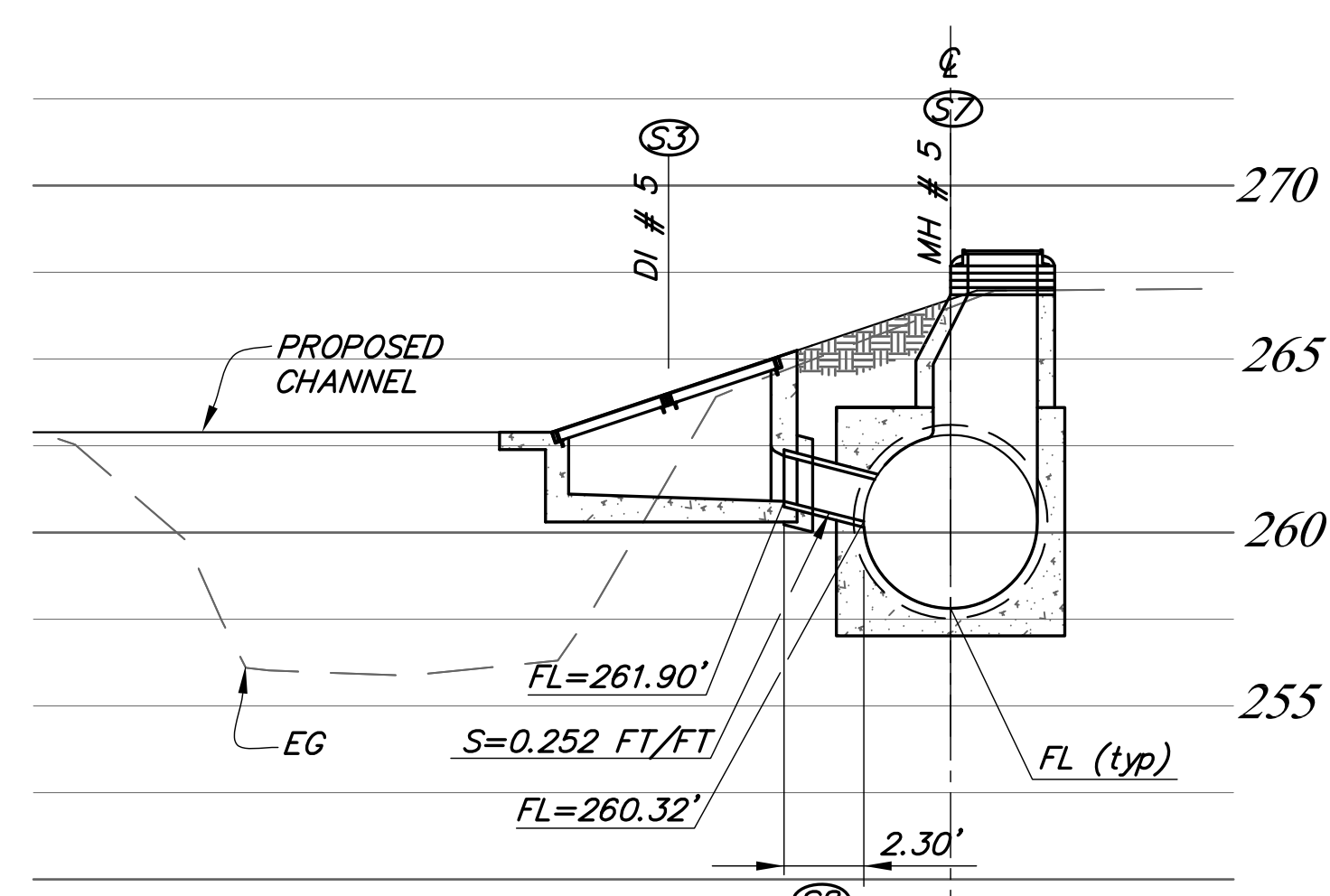




**STORM DRAIN MANHOLE # 3  
AND DROP INLET # 3,  
STA 14+00**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL

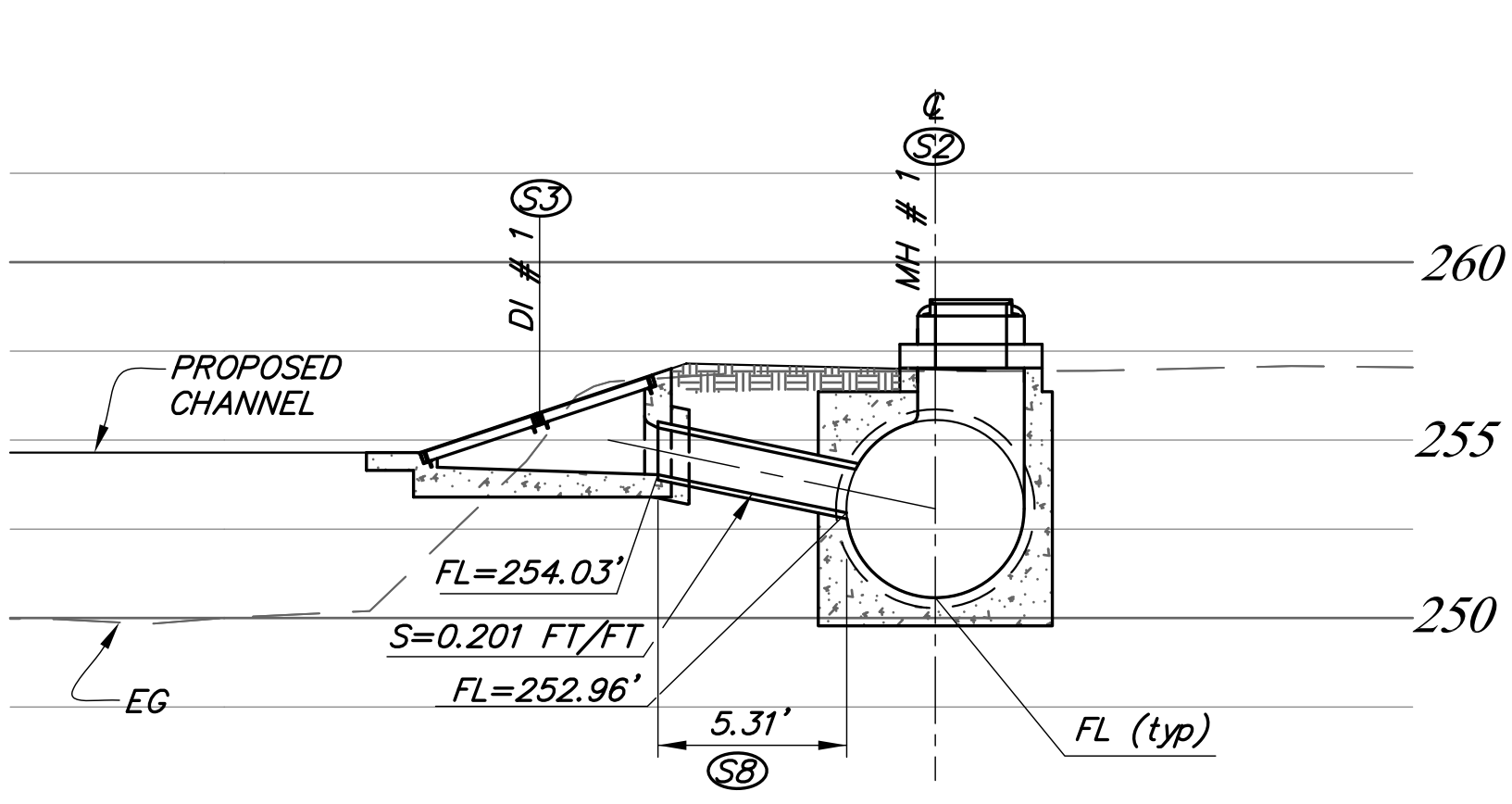


**STORM DRAIN MANHOLE # 4  
AND DROP INLET # 4,  
STA 18+00**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL

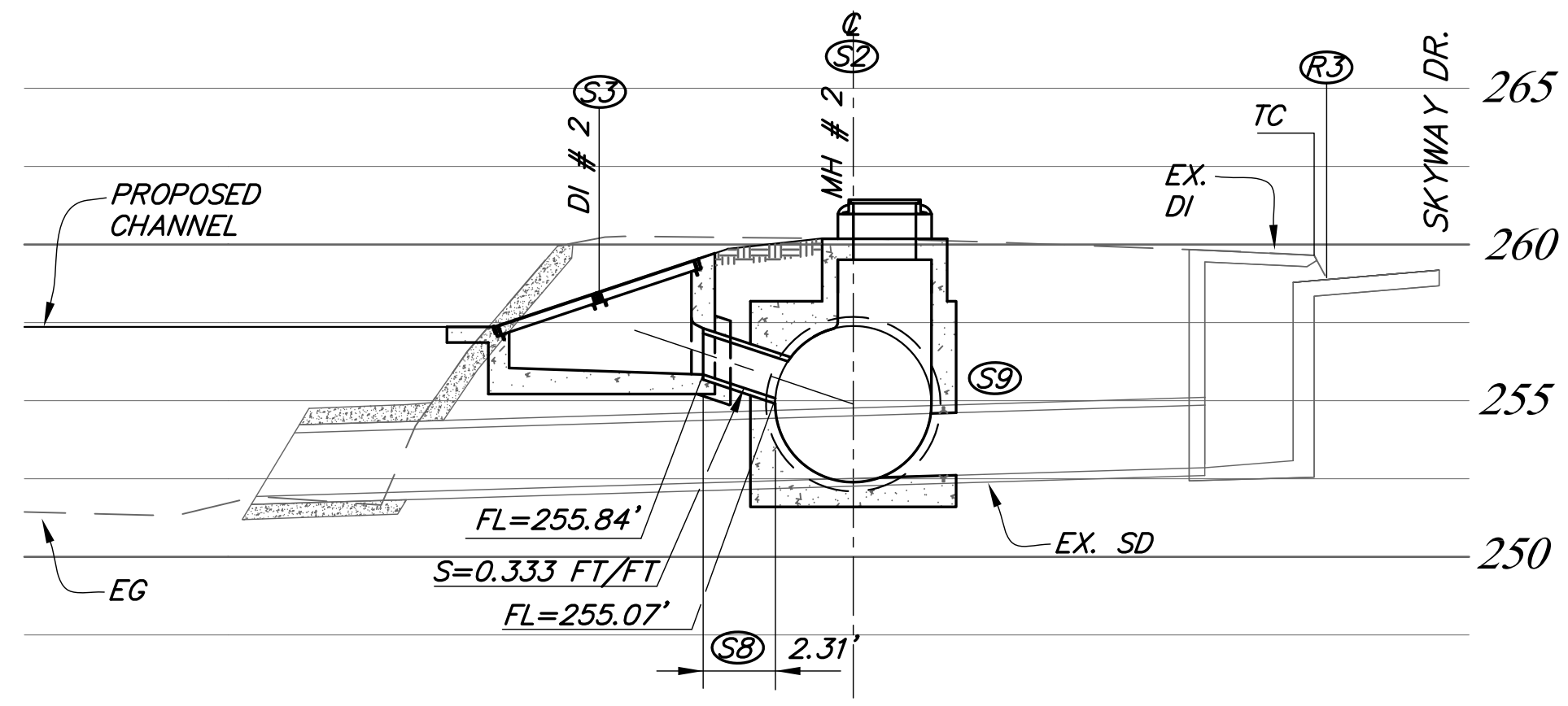


**STORM DRAIN MANHOLE # 5  
AND DROP INLET # 5,  
STA 22+00**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL

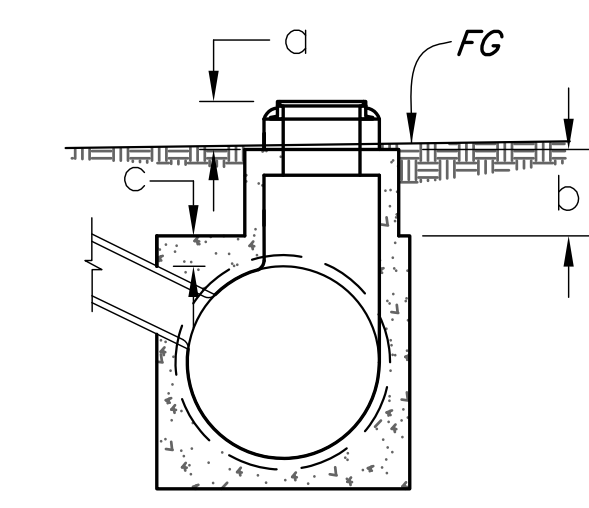
- CONSTRUCTION NOTES:**
- ⑤2 Construct Monolithic Manhole Pipe to Pipe per SPPWC 320-2, and per the dimensions and the Detail on this sheet.
  - ⑤7 Construct Manhole Pipe to Pipe per SPPWC 320-2, with eccentric reducer per SPPWC 324-2, and per the dimensions and the Detail on this sheet.
  - ⑤3 Construct Drop Inlet with Caltrans frame and Grate Type 24-9 per Caltrans Standard Plan D77A and Details on this sheet.
  - ⑤8 Install 15" Dia. Polypropylene Pipe per Typical Trench Detail on this sheet.
  - ⑤9 Cut existing RCP, flush with opening and install watertight pipe-to-manhole connector conforming to ASTM C-923. Seal with non-shrink grout.
  - Ⓜ3 Protect in place.



**STORM DRAIN MANHOLE # 1  
AND DROP INLET # 1,  
STA 6+00**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL



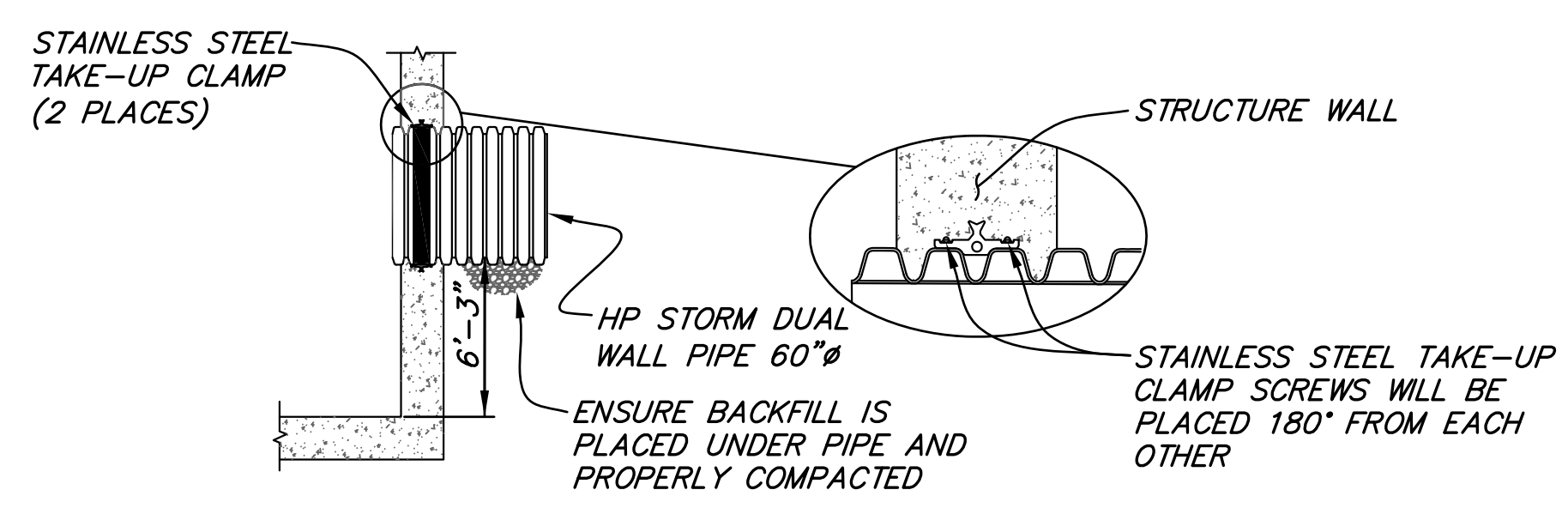
**STORM DRAIN MANHOLE # 2  
AND DROP INLET # 2,  
STA 10+65.59**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL



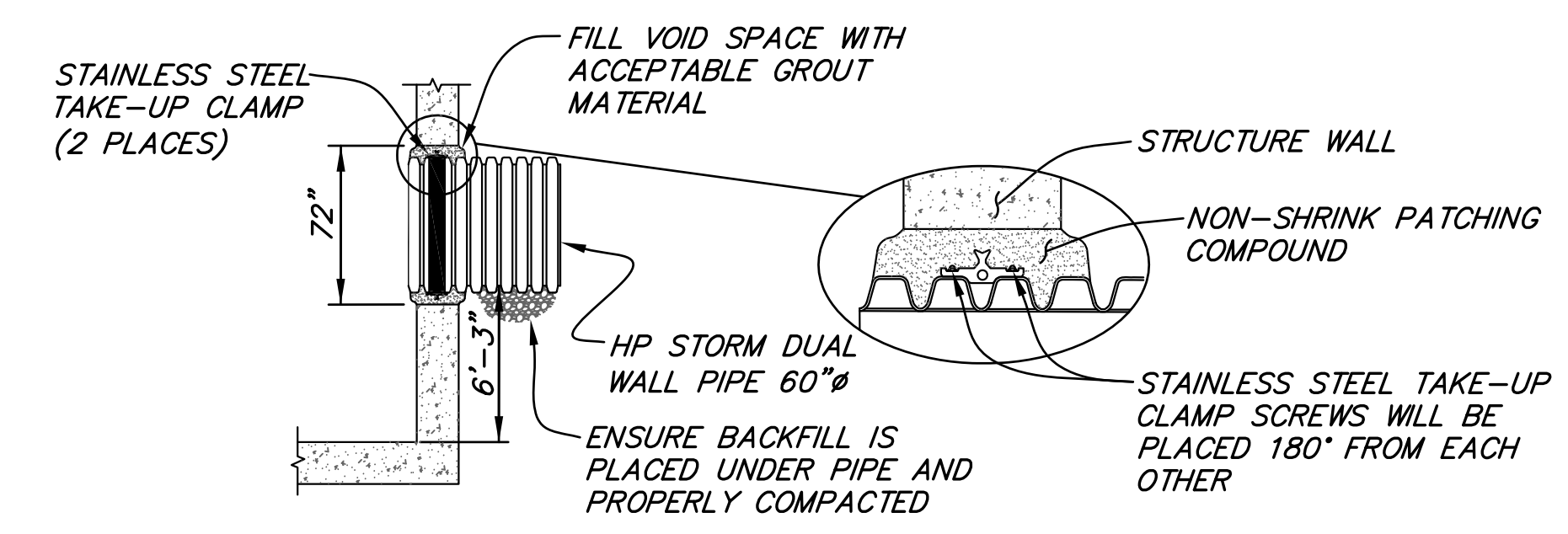
**MANHOLE COMPONENT DIMENSIONS**

Manhole I.D.	STA	a	b	c
MH # 1	6+00	15"	16"	9½"
MH # 2	10+65.59	15"	2'-0"	9½"
MH # 3	14+00	15"	2'-3"	9½"
MH # 4	18+00	15"	2'-6"	9½"
MH # 5	22+00	15½"	3'-3"	9½"

**MANHOLE COMPONENT  
DETAIL**  
NTS



**60" POLYPROPYLENE (HP) WATERSTOP  
CAST-IN-PLACE MANHOLE CONNECTION**  
NTS



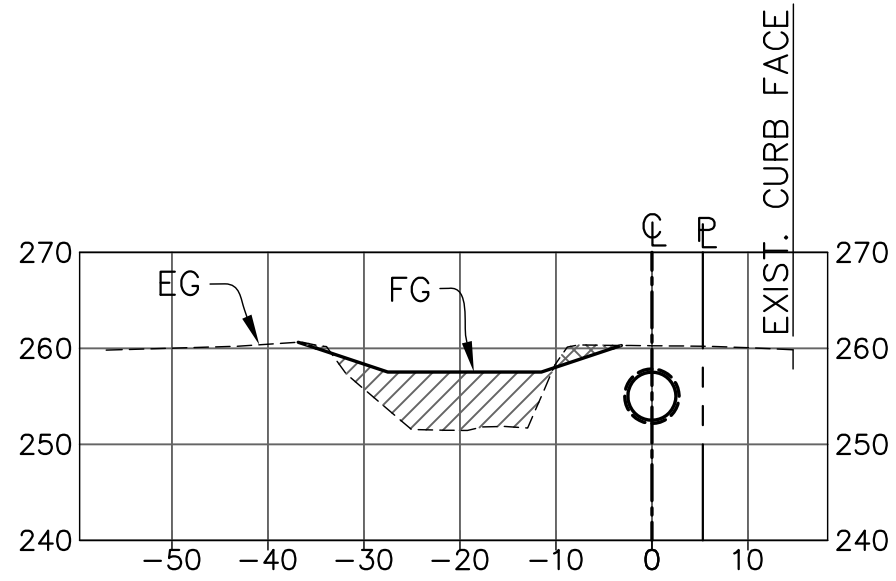
**60" POLYPROPYLENE (HP) WATERSTOP  
PRE-CAST GROUTED MANHOLE CONNECTION**  
NTS

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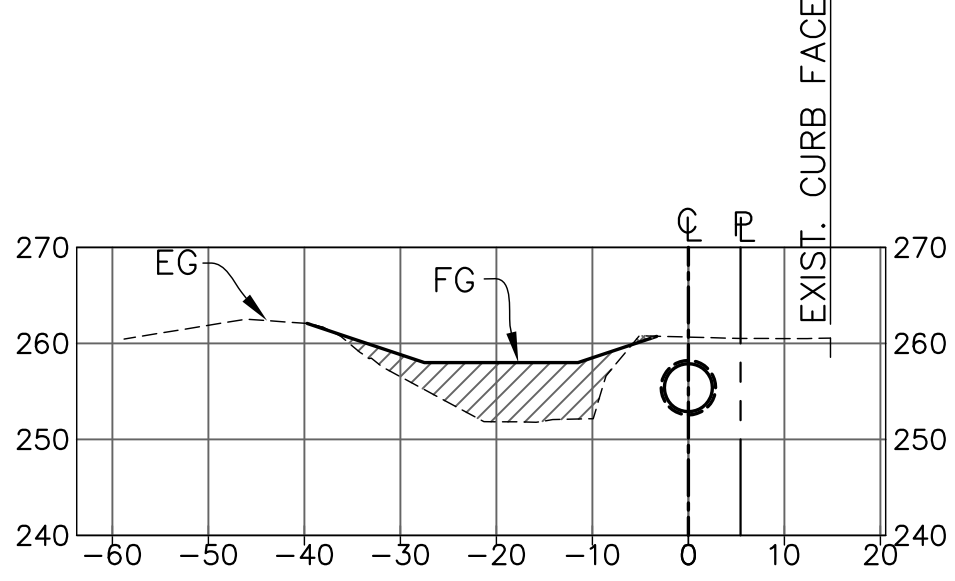
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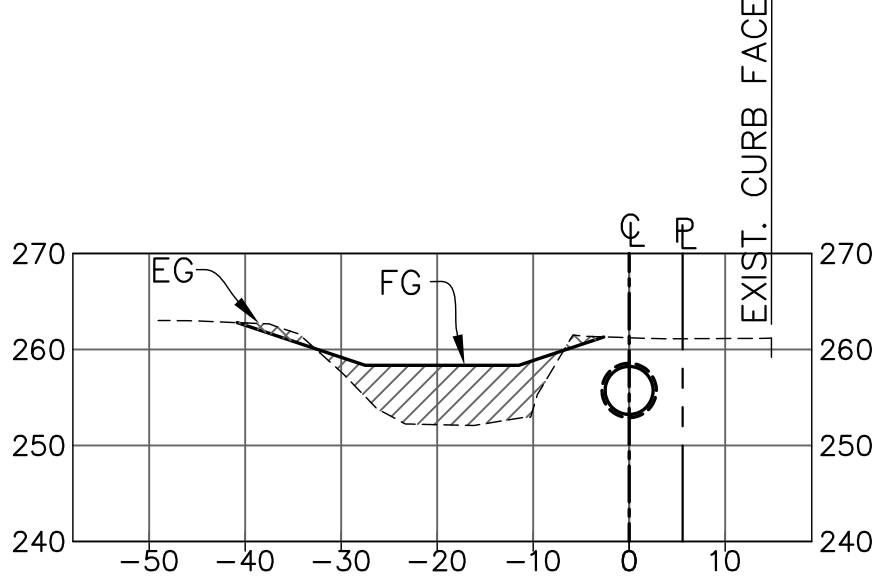




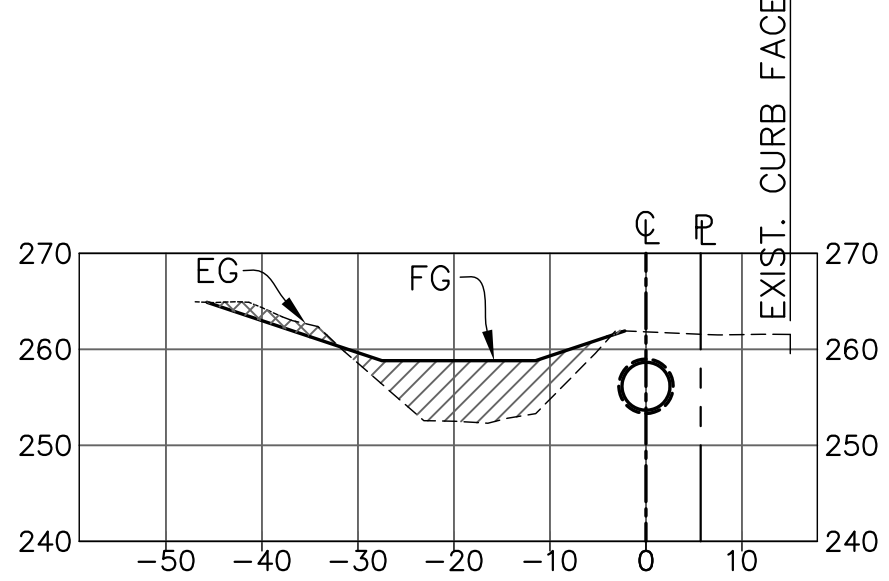
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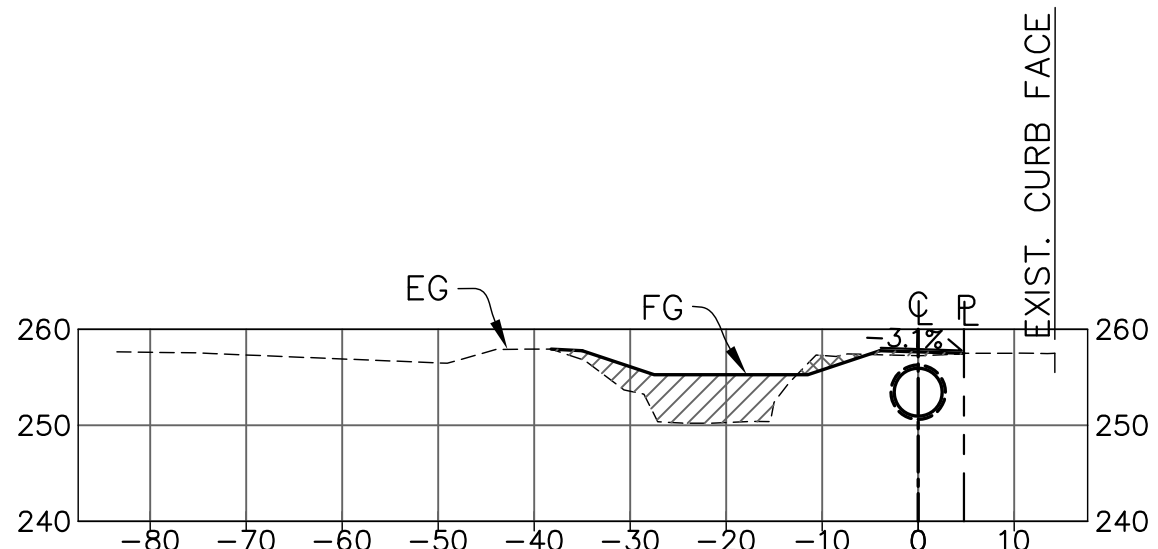
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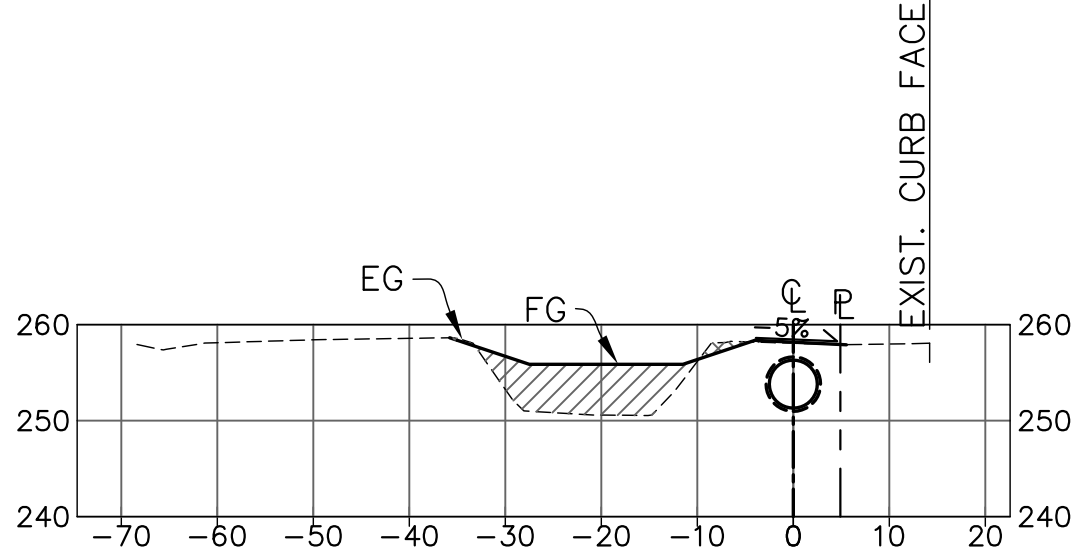
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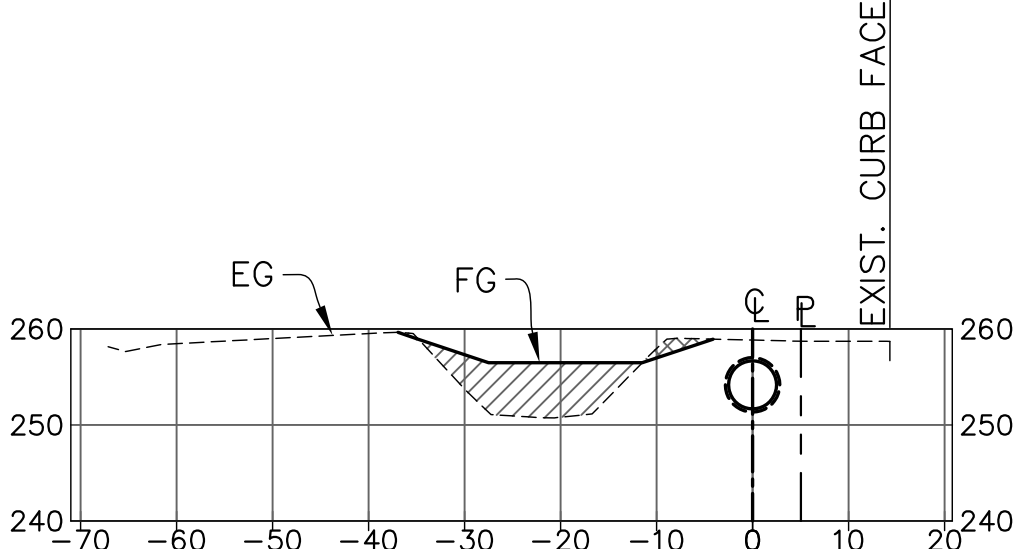
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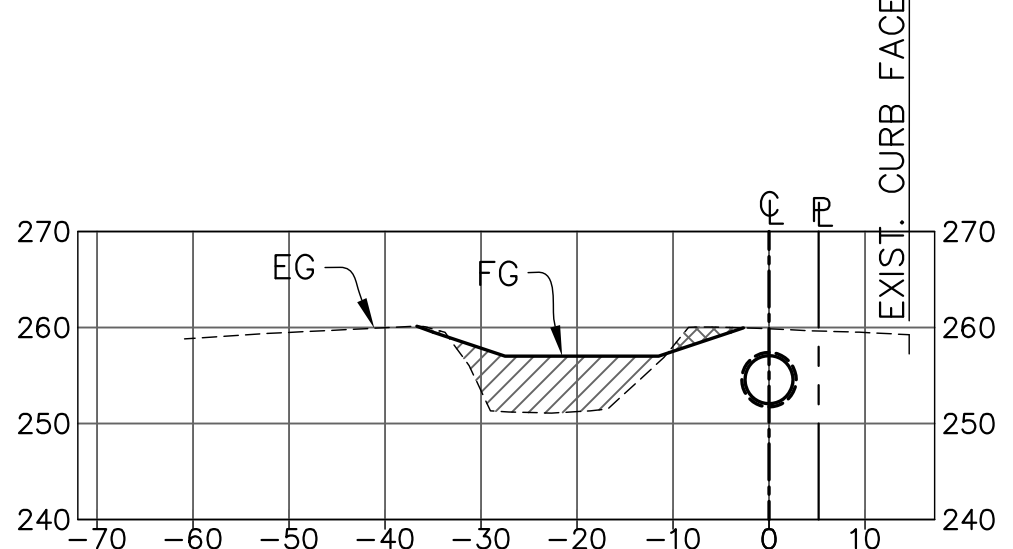
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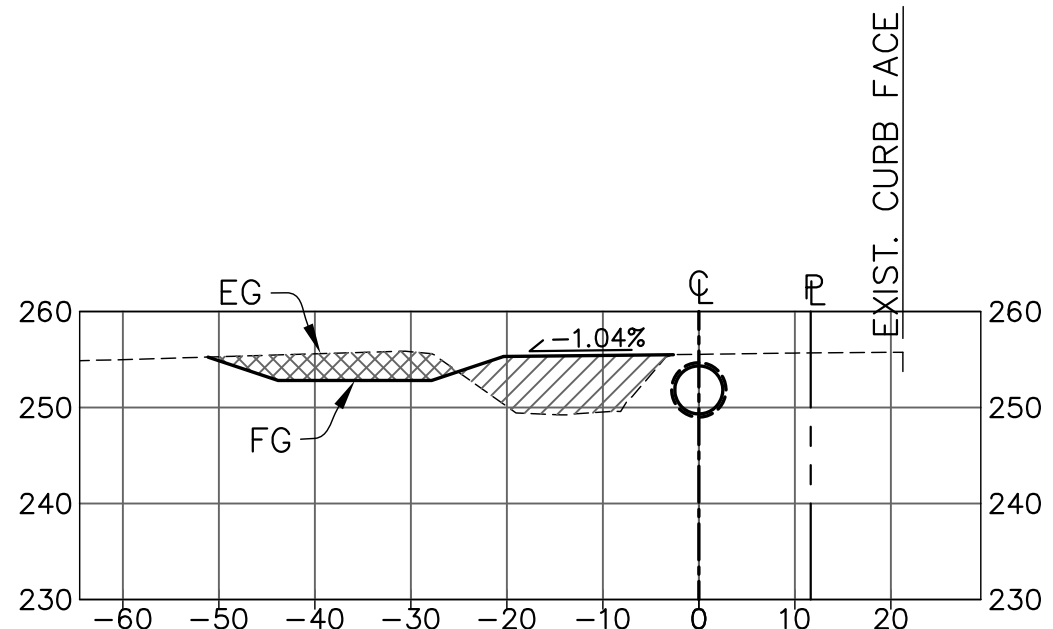
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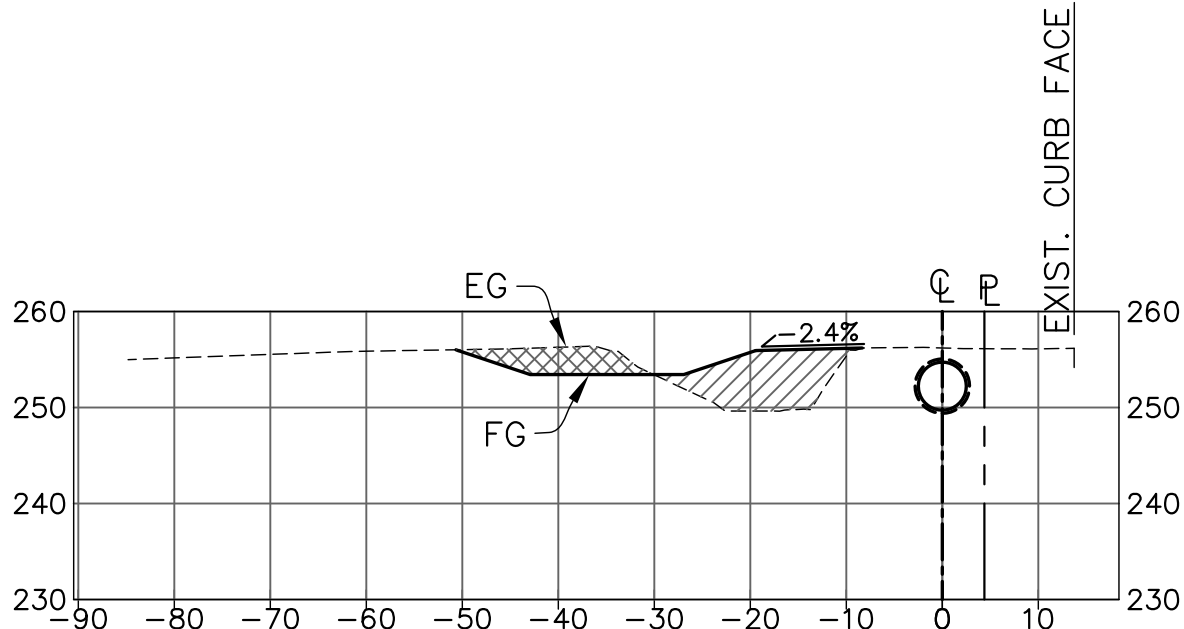
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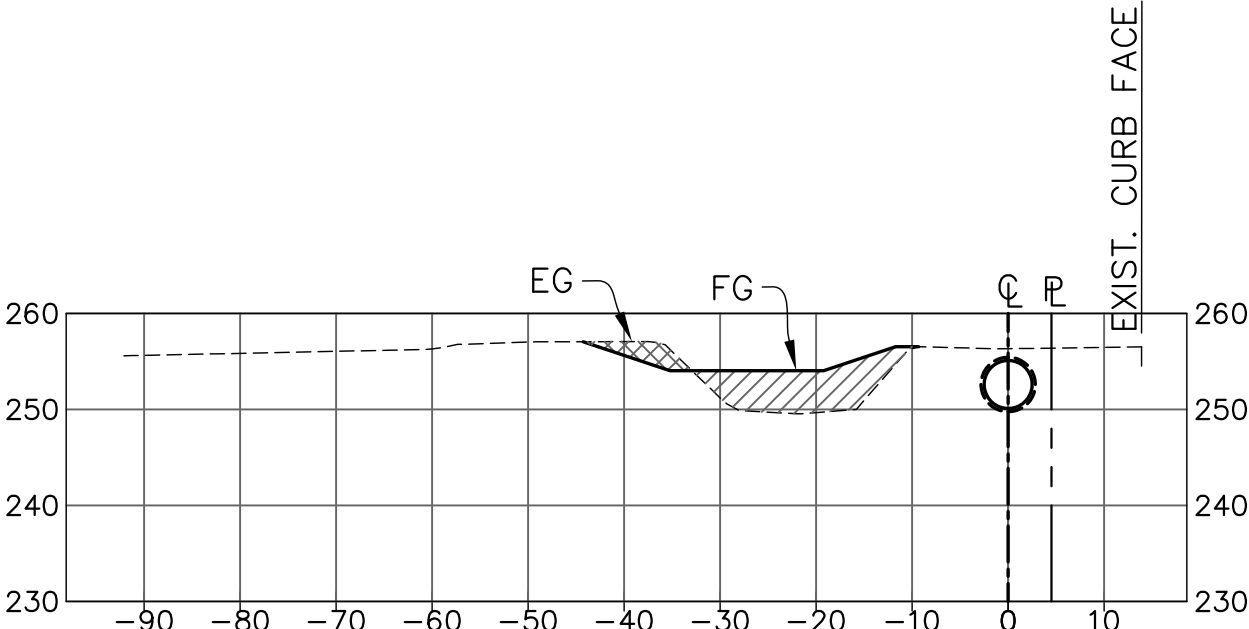
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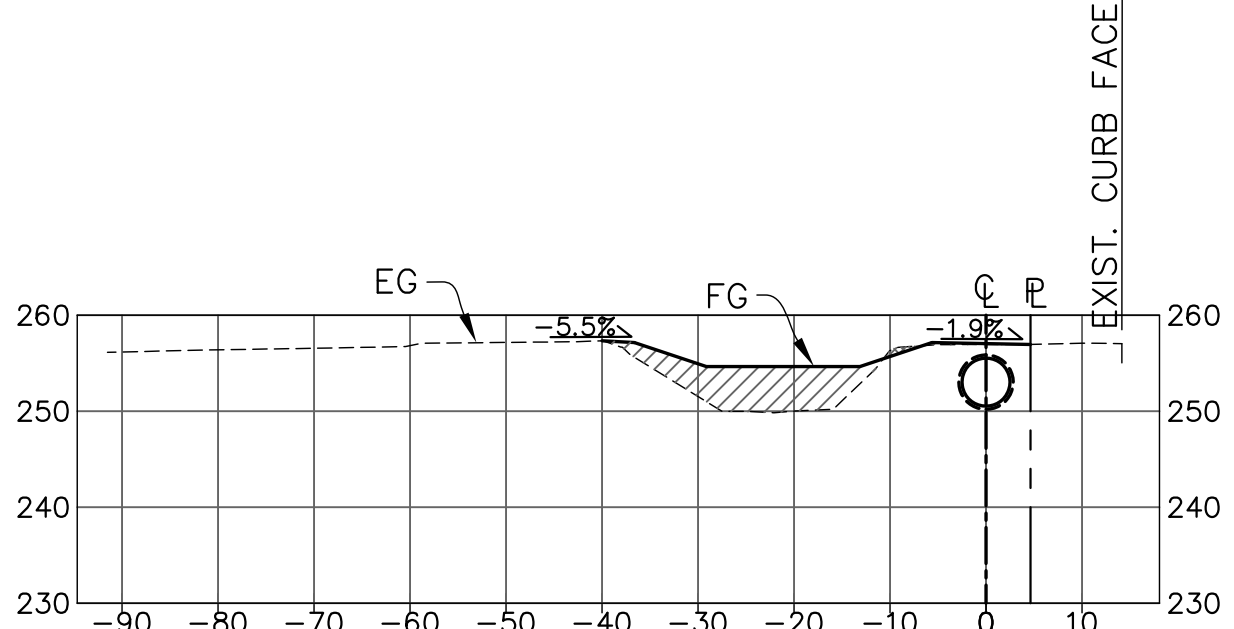
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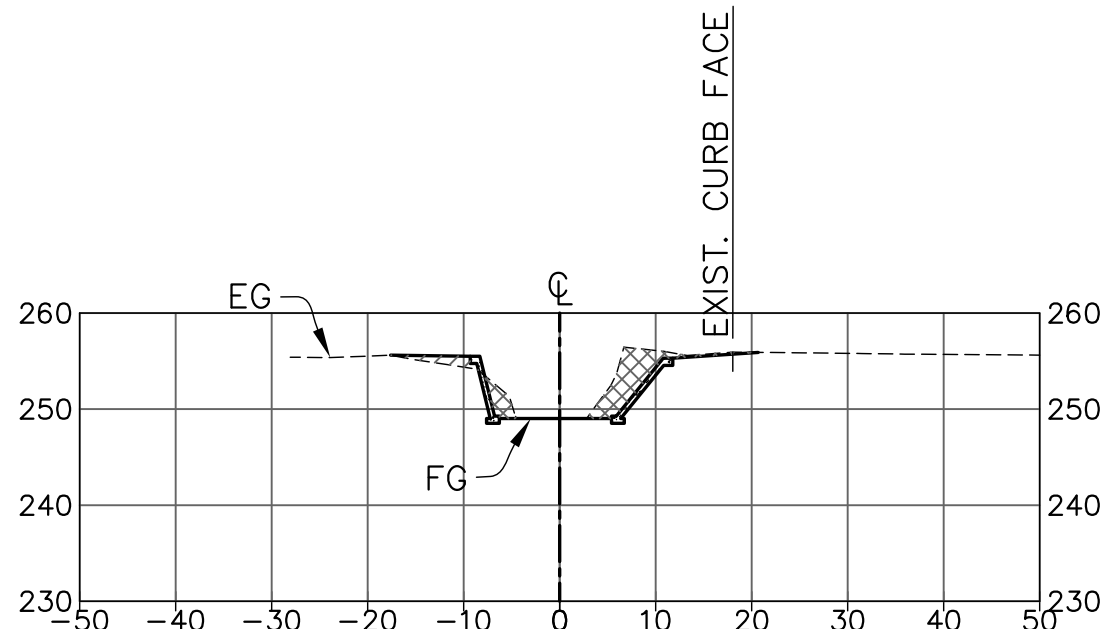
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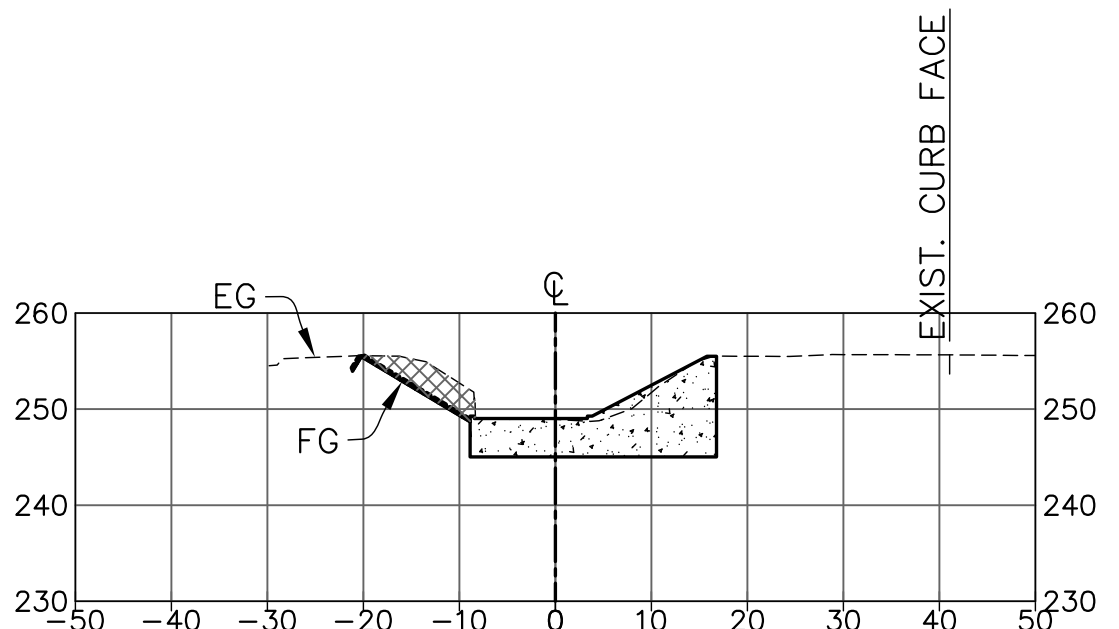
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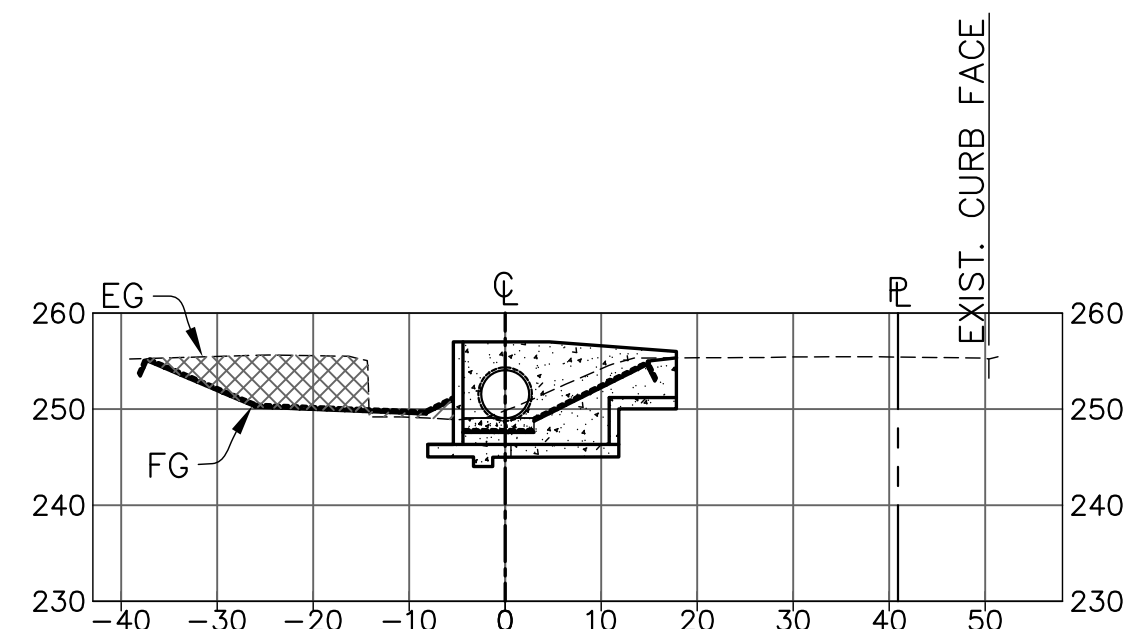
6+00.00



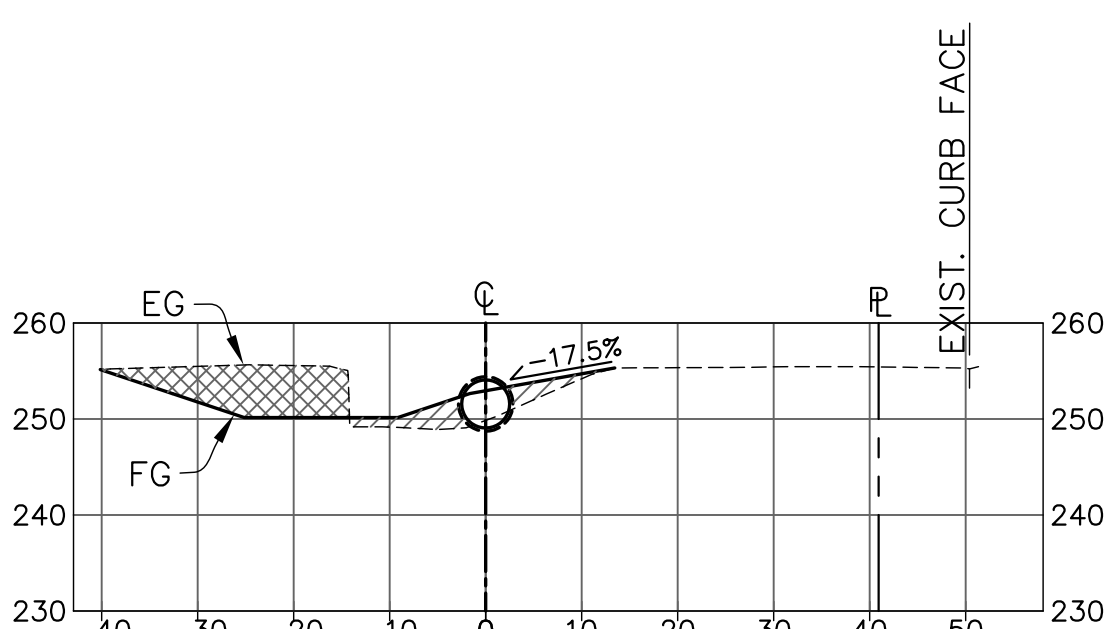
1+79.00



1+96.13



2+30.00



2+30.00

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**SECTIONS**  
**USING PIPE ALIGNMENT STATIONING**

SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

EXCAVATION  
COMPACTED DITCH FILL



REVISIONS			
NO.	DESCRIPTION	DATE	APR



**Km Sullivan**  
FLOOD CONTROL DESIGN ENGINEER  
05-05-2017  
DATE

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



SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

**CROSS SECTIONS**

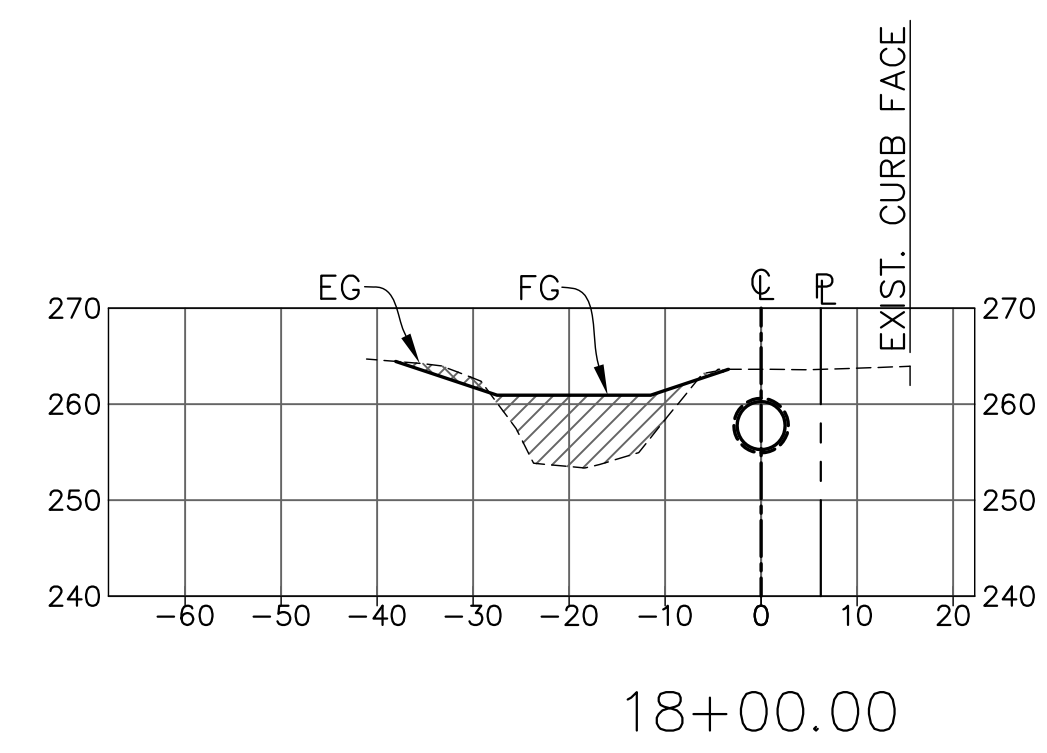
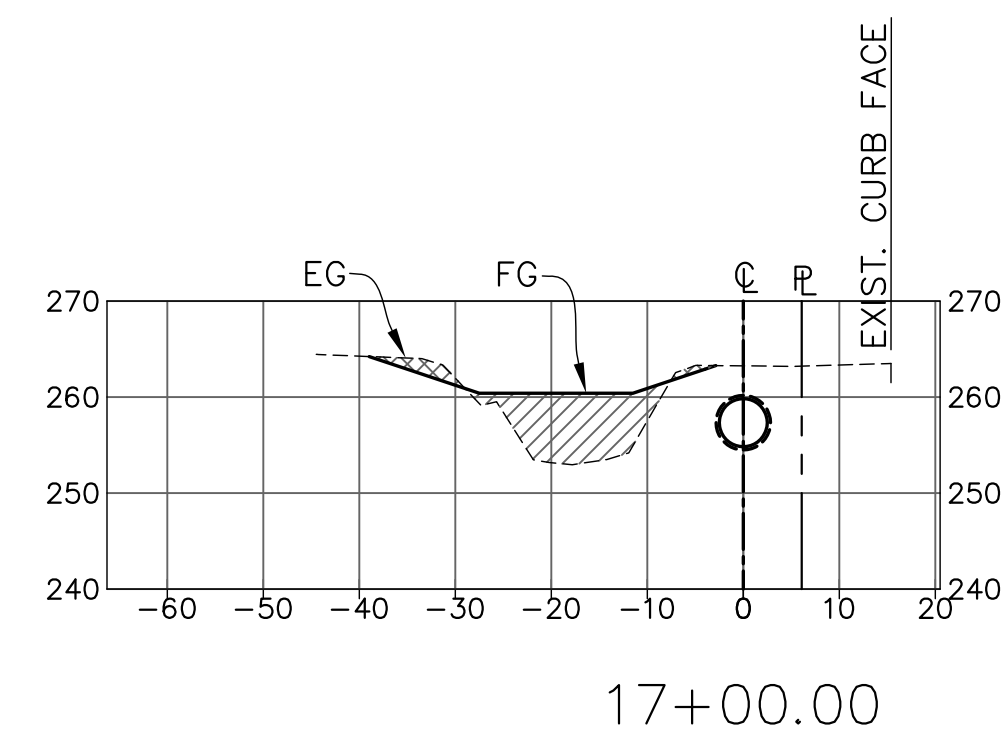
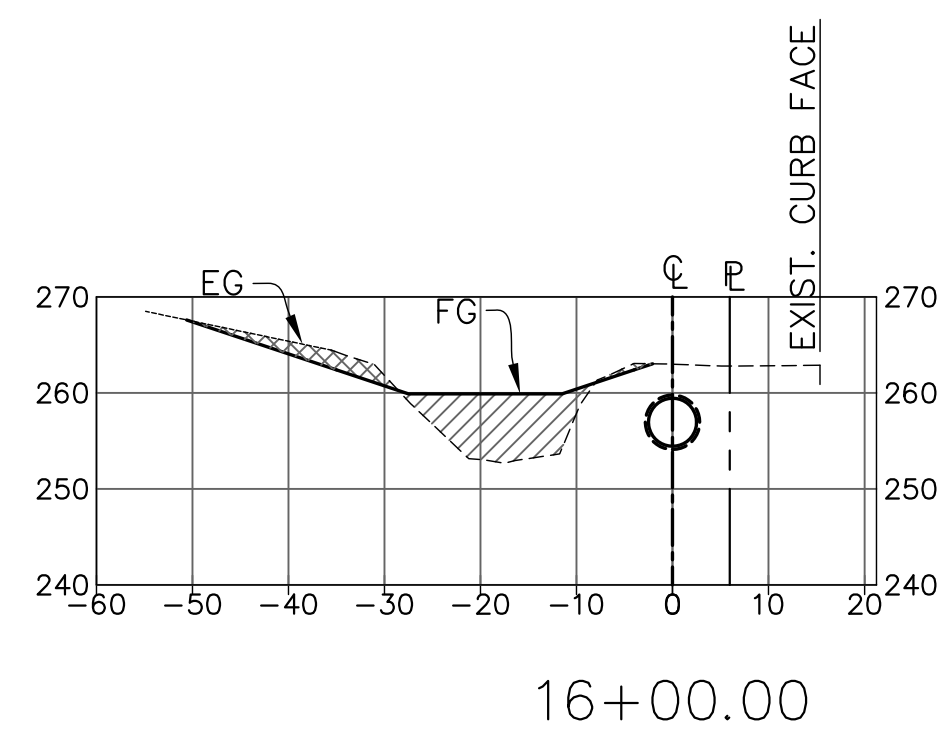
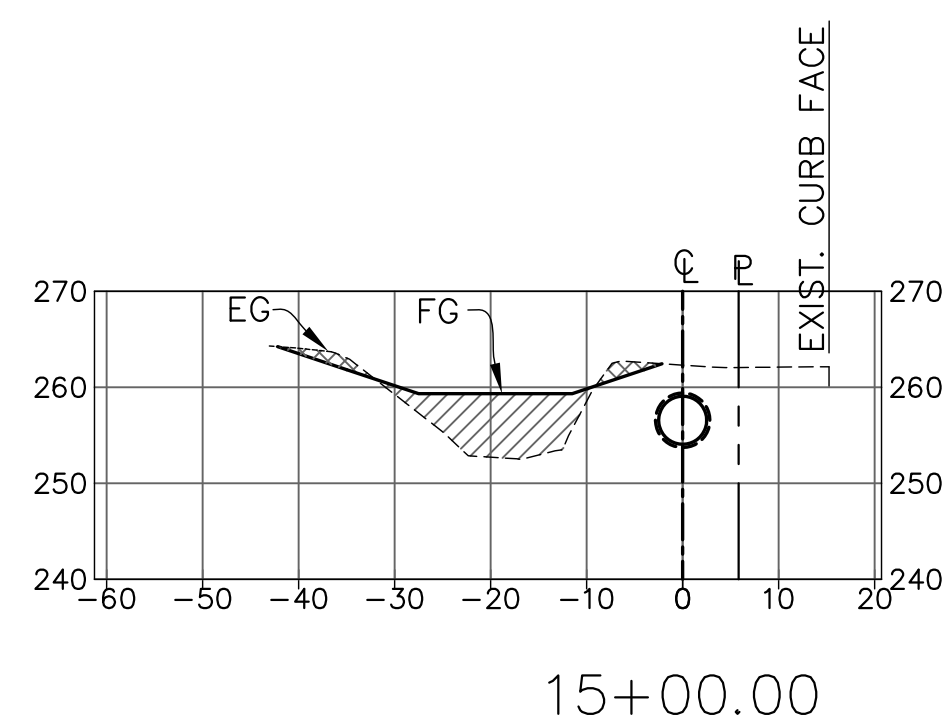
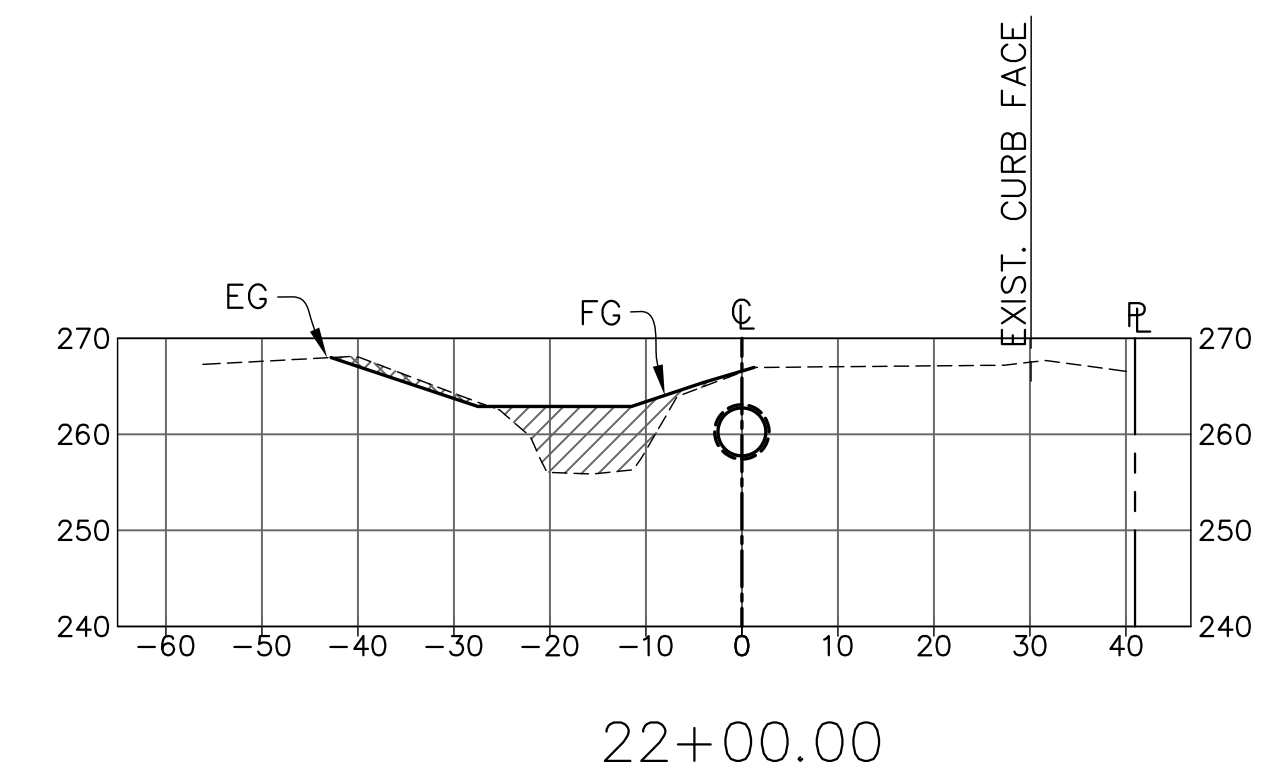
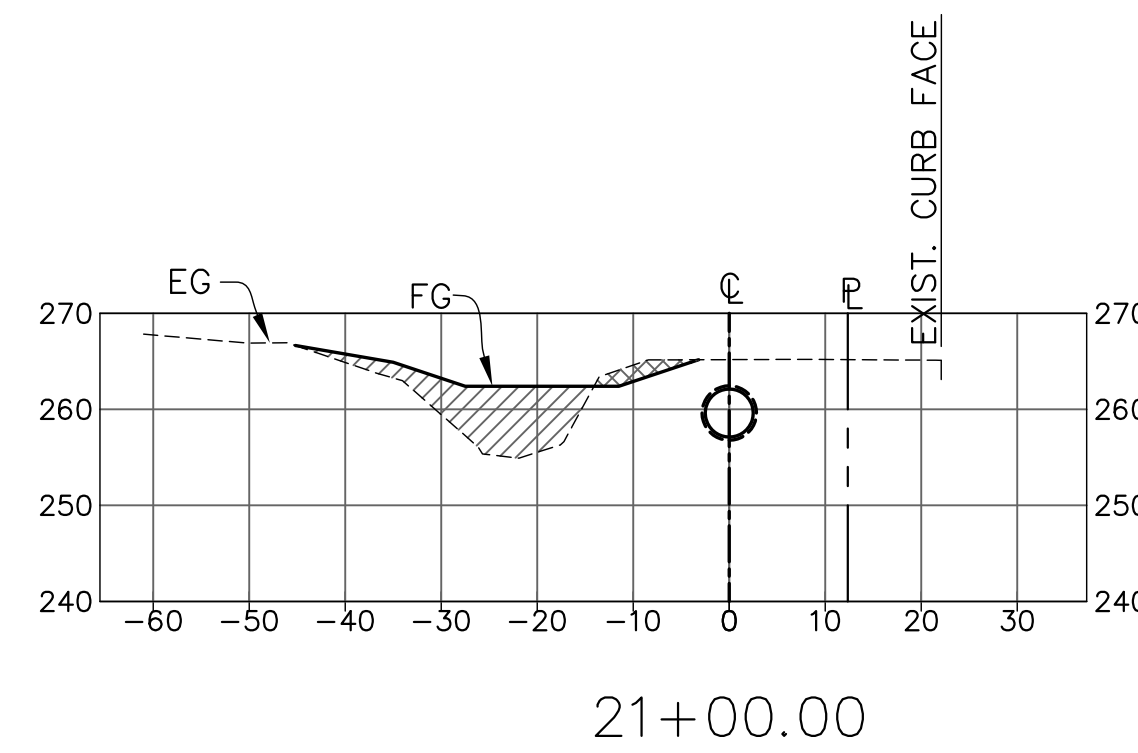
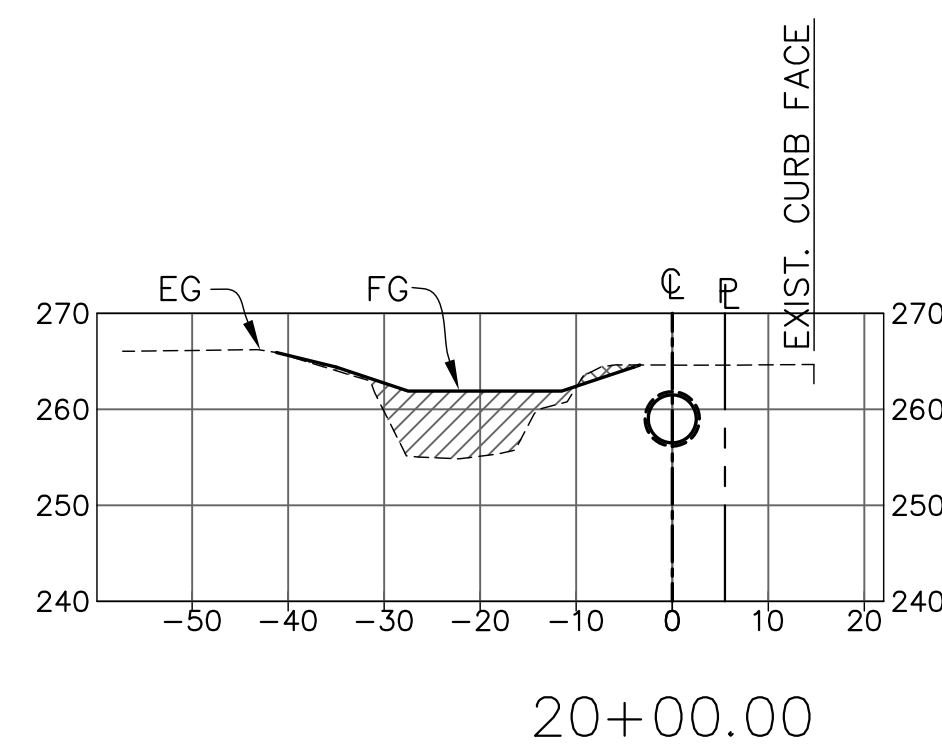
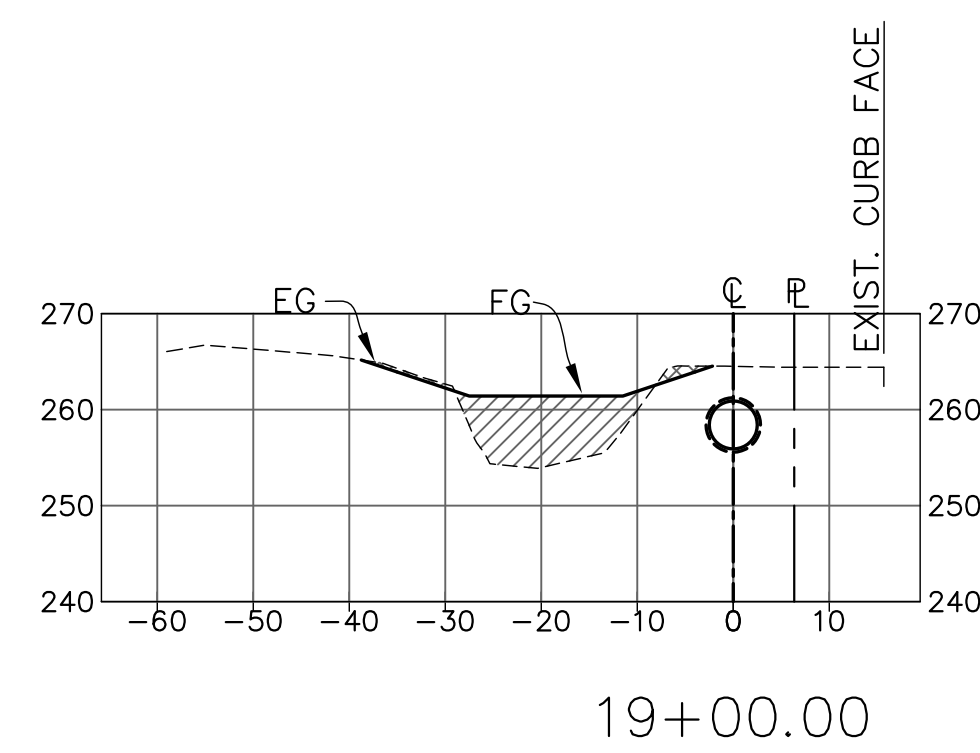
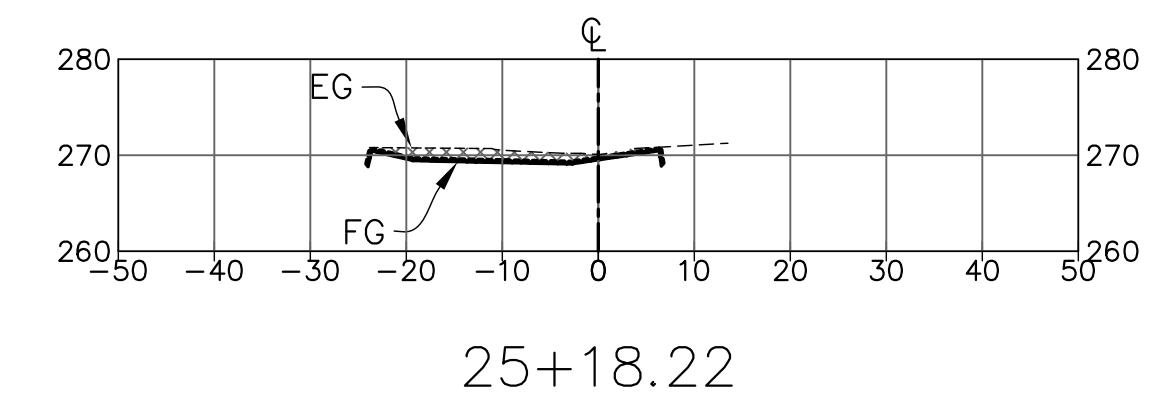
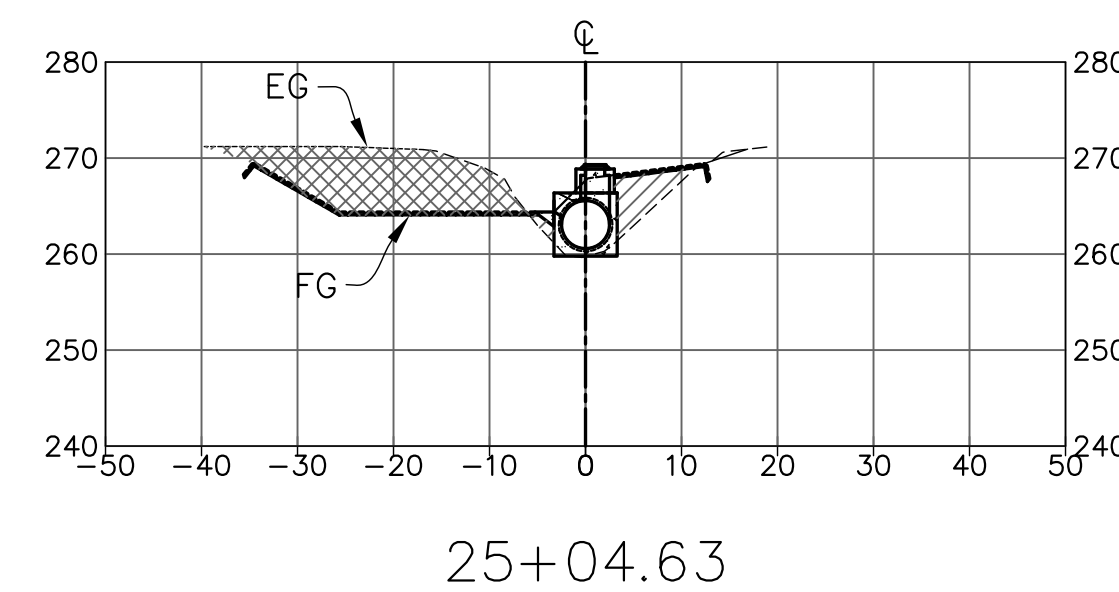
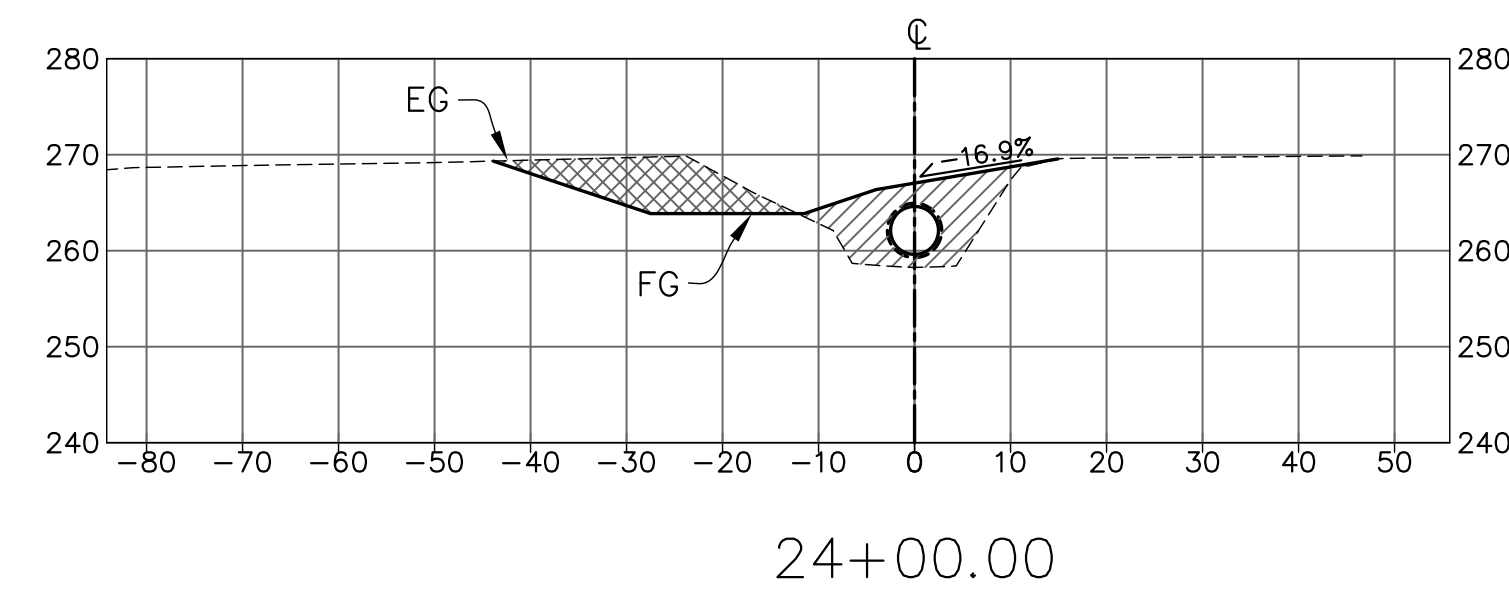
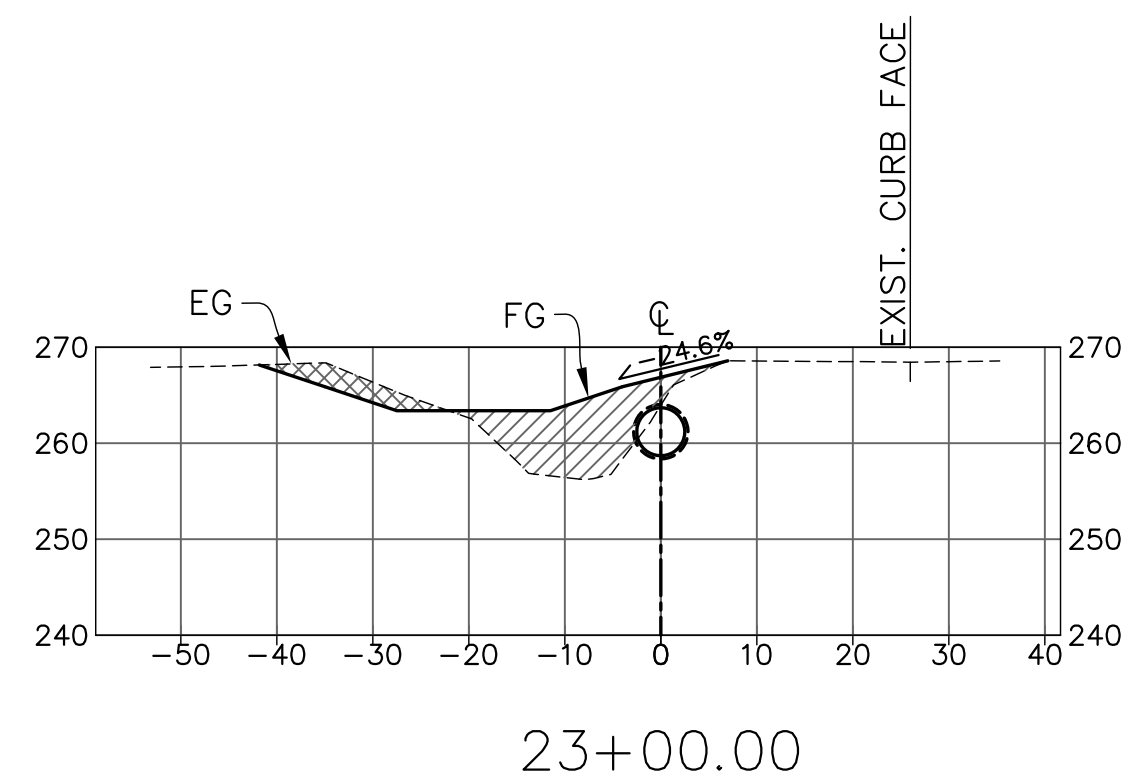
DESIGNED BY:  
KS  
DRAWN BY:  
OR/JM  
CHECKED BY:  
JF

**O-1133**

SHEET 20 OF 22

Filename: Airport Ditch Sections.DWG





## SECTIONS

### *USING PIPE ALIGNMENT STATIONING*

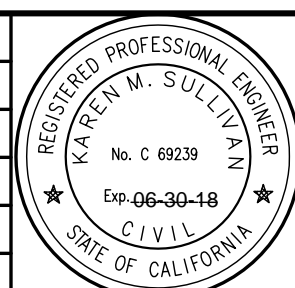
SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

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 @ 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.

REVISIONS			
NO.	DESCRIPTION	DATE	APR



Km Sullivan  
FLOOD CONTROL DESIGN ENGINEER

05-05-2017  
DATE

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



SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

## CROSS SECTIONS

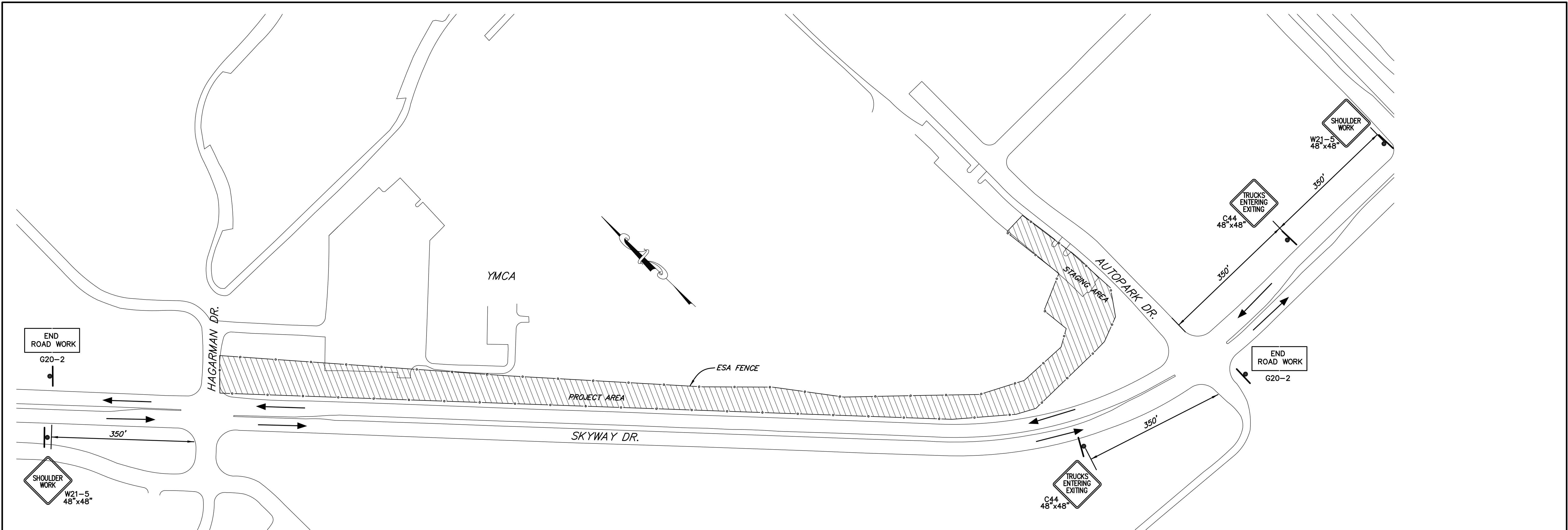
DESIGNED BY:	KS
DRAWN BY:	OR/JM
CHECKED BY:	JF

O-1133

SHEET 21 OF 22

Filename: Airport Ditch Sections.DWG





SITE MAP  
N.T.S.

NOTES:

- 1. Traffic Control shall conform to the latest revision to the California MUTCD Edition
- 2. Sign locations shown are approximate. Exact location shall be determined in the field in conformance with the MUTCD and as approved by Engineer.
- 3. Construction area signs not applicable to the current stage of work shall be removed or covered.
- 4. All missing, broken & bent signs must be replaced.
- 5. Directional arrows illustrate direction of traffic.
- 6. Place temporary fencing, type ESA (Environmentally Sensitive Area).

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.

REVISIONS					DESIGNED BY: <i>Km Sullivan</i> FLOOD CONTROL DESIGN ENGINEER	05-05-2017 DATE		SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440		ORCUTT AIRPORT DITCH  AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	CONSTRUCTION AREA SIGNS AND ESA FENCING	DESIGNED BY:	O-1133
NO.	DESCRIPTION	DATE	APR									KS	
												DRAWN BY:	
												OR	
												CHECKED BY:	
												JF	SHEET 22 OF 22

Filename: AIRPORT\_DITCH\_area\_traffic\_control.DWG