

FOR BIDDING PURPOSES ONLY

# WARD DRIVE CLASS II BIKE LANE PROJECT STREET IMPROVEMENT PLANS

## LEGEND

	EXISTING	PROPOSED
SAWCUT		
RIGHT-OF-WAY CENTERLINE		
CURB		
CURB & GUTTER		
FENCE-GENERAL USE		
FLOWLINE		
CONTOURS		
WATER LINE		
SANITARY SEWER LINE		
STORM DRAIN LINE		
GAS LINE		
OVERHEAD WIRES		
GRADE BREAK		
DAYLIGHT MAX 2:1 SLOPE		
AC PAVING (6" FULL DEPTH)		
AC PAVING (6" HMA/ 12" AB)		
DRIVEWAY TRANSITION (6" FULL DEPTH HMA)		
CONCRETE		
SLURRY SEAL		
PROPOSED LANDSCAPE		
EDGE OF PAVEMENT		
DRAINAGE INLET		
WATER METER		
ELECTRIC VAULT		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
GAS VALVE		
SEWER CLEANOUT		
FIRE HYDRANT		
WATER VALVE		
SIGN		
MAILBOX		
BOLLARD		
POWER POLE		
METER WELL		

## ABBREVIATIONS

ASPHALT CONCRETE	AC
BOULDER	Bldr
CENTERLINE	CL
CLEANOUT	CO
ELECTRIC BOX	EB
FINISHED GRADE	FG
FINISHED SURFACE	FS
FLOW LINE	FL
GAS VALVE	GV
GRADE BREAK	GB
HIGH POINT	HP
INVERT	INV
IRRIGATION CONTROL VALVE	ICV
MAILBOX	MBX
PRESSURE CONTROL VALVE	PCV
PROPERTY LINE	PL
PILLAR	PLR
RIGHT-OF-WAY	ROW
TOP OF WALL	TW
TOP OF CURB	TC
TOP OF BERM	TB
TOP OF BOX	TGB
WATER METER	WM
TOP OF GRATE	TG
EXISTING	(E)
NEW OR PROPOSED	(N)
HOT MIX ASPHALT	HMA

## RICK ENGINEERING COMPANY SPECIAL NOTES:

- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.
- NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL FOLLOW THE GUIDELINES AND REGULATIONS AS SET FORTH BY OSHA.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL UTILITIES ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE PERFORMING ANY WORK.
- THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM HIS OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY OWNER. THE CONTRACTOR IS RESPONSIBLE TO ADHERE TO THE PROJECT SWPPP AT ALL TIMES.
- LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
- WHERE TRENCHES ARE WITHIN EASEMENTS OR WITHIN 10' OF ANY BUILDING, A SOILS REPORT SHALL BE SUBMITTED TO THE ENGINEER OF WORK BY A QUALIFIED SOILS ENGINEER OR SPECIAL INSPECTOR WHICH INDICATES THAT TRENCH BACKFILL WAS COMPACTED UNDER THE OBSERVATION OF THE SOILS ENGINEER/SPECIAL INSPECTOR AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ALL FRAMES, COVERS, VALVE BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.

## UTILITY NOTES:

- LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON AVAILABLE INFORMATION PROVIDED BY OTHERS.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATING ALL UTILITIES AND RELATED FACILITIES AND FOR THEIR PROTECTION DURING THE COURSE OF CONSTRUCTION. UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THIS PLAN.
- THE CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICE FUNCTION, DISTURB THE SUPPORT BASE, OR MODIFY ANY FACILITY WITHOUT AUTHORITY FROM UTILITY OWNER.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL POT-HOLE AND VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- EXISTING PIPELINES/UTILITIES THAT CROSS NEW SYSTEM PIPING OR SIMILAR EXCAVATIONS REQUIRED TO CONSTRUCT THE PIPING, SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED. ALL EXISTING PIPELINES/UTILITIES SHALL BE SUPPORTED ACROSS THE EXCAVATION DURING CONSTRUCTION. IN ORDER TO PREVENT SETTLEMENT OF THE UTILITY AFTER INSTALLATION OF THE NEW SYSTEM, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER IF ANY UTILITY IS DISTURBED OR DAMAGED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BEAR THE COSTS OF REPAIR OR REPLACEMENT OF ANY MARKED UTILITY WHERE DAMAGED WAS CAUSED BY THE CONTRACTOR'S ACTIVITIES.

## BENCH MARK:

HORIZONTAL COORDINATE BASIS IS NAD 83 (1991.35) PER THE SAN JOSE CREEK PROJECT CONTROL PER McGEE SURVEYING PROJECT CONTROL POINT NUMBERS 31, 6, 20, 106. CALIFORNIA STATE PLANE COORDINATES SYSTEM ZONE V.

VERTICAL DATUM IS NAVD 88 PER THE SAN JOSE CREEK PROJECT PER McGEE SURVEYING PROJECT CONTROL POINT NUMBERS 31, 6, 20, 106 TIED INTO NGS BENCHMARKS EW3774, EW3785, EW3793.

## CLIENT:

CITY OF GOLETA  
130 CREMONA DRIVE, SUITE B  
GOLETA CA, 93117

PHONE: (805) 961-7563  
FAX: (805) 685-2635  
CONTACT: TERESA LOPES

## ENGINEER:

RICK ENGINEERING COMPANY  
1160 MARSH STREET, SUITE 150  
SAN LUIS OBISPO, CA 93401

PHONE: (805) 544-0707  
CONTACT: JOSEPH E. PATTERSON, P.E.

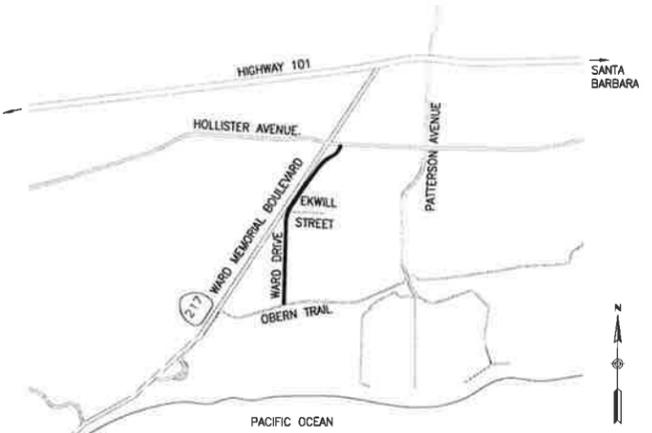
## SURVEYOR:

CARDENAS AND ASSOCIATES SURVEYING, INC.  
201 N. CALLE CESAR CHAVEZ, STE. 100  
SANTA BARBARA, CA 93103

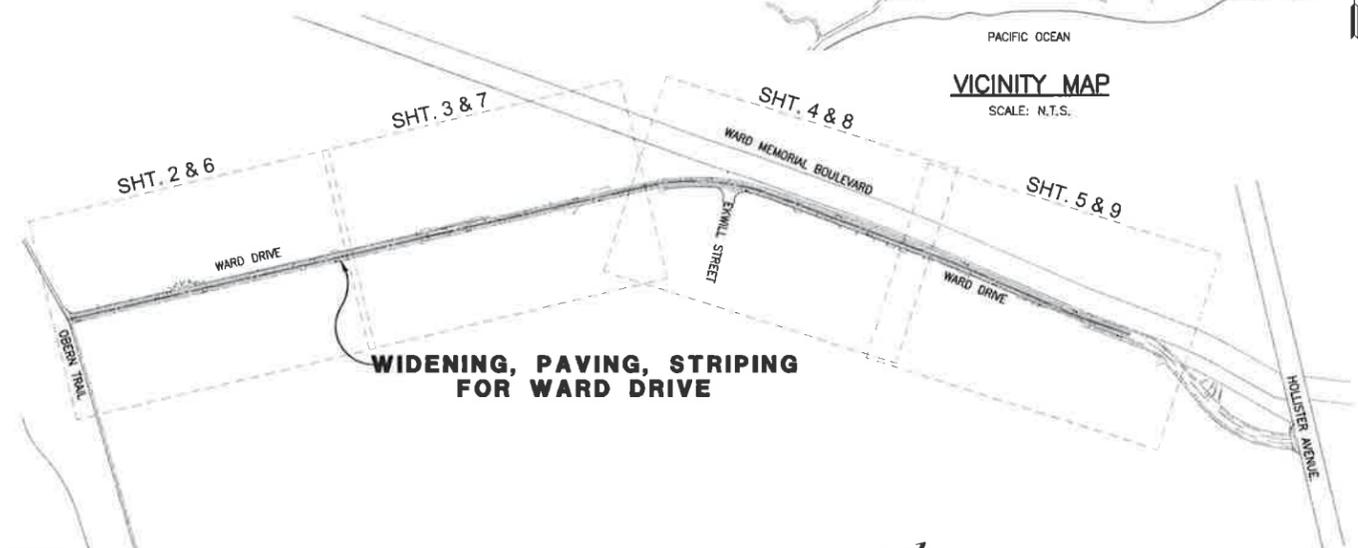
PHONE: (805) 966-3713  
FAX: (805) 966-3271  
CONTACT: JOSE CARDENAS

## GEOTECHNICAL ENGINEER:

TO BE DETERMINED BY THE CITY DURING THE BID PROCESS.



VICINITY MAP  
SCALE: N.T.S.



KEY MAP  
SCALE: 1" = 300' ±

## WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS BELOW:

### STANDARD SPECIFICATIONS:

- STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS (2010)
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2014)
- COUNTY OF SANTA BARBARA STANDARD SPECIFICATIONS (2012)

### STANDARD DRAWINGS:

- COUNTY OF SANTA BARBARA STANDARD CONSTRUCTION DRAWINGS (2012)
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2014)
- STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLAN (2010)
- STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (2012)

## CAUTION!!!

LOCATION OF EXIST UTILITIES ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES & NOTIFY ENGINEER OF WORK OF CHANGED FIELD CONDITIONS PRIOR TO CONSTRUCTION.

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
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3	IMPROVEMENT PLAN - WARD DRIVE
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5	IMPROVEMENT PLAN - WARD DRIVE
6	SEALING & STRIPING PLAN - WARD DRIVE
7	SEALING & STRIPING PLAN - WARD DRIVE
8	SEALING & STRIPING PLAN - WARD DRIVE
9	SEALING & STRIPING PLAN - WARD DRIVE
10	DETAILS - WARD DRIVE
11	DETAILS - WARD DRIVE
12	DETAILS - WARD DRIVE
13	DETAILS - WARD DRIVE

## WARD DRIVE CLASS II BIKE LANE PROJECT

### TITLE

CITY OF GOLETA  
DEPARTMENT OF PUBLIC WORKS

SCALE: N.T.S.	REVIEWED FOR COMPLIANCE BY:	SHEET NO. 1
DATE: 12/21/2016		OF 13 SHEETS
DRAWN BY: KCS	DATE: 12/22/16	DRAWING NO.
CHECKED BY: TEM	SIGNATURE	
JOB NO: 17775	DATE	

**RICK ENGINEERING COMPANY**  
1160 MARSH STREET - SUITE 150  
SAN LUIS OBISPO, CA 93401  
805.544.0707  
(FAX) 805.544.2052

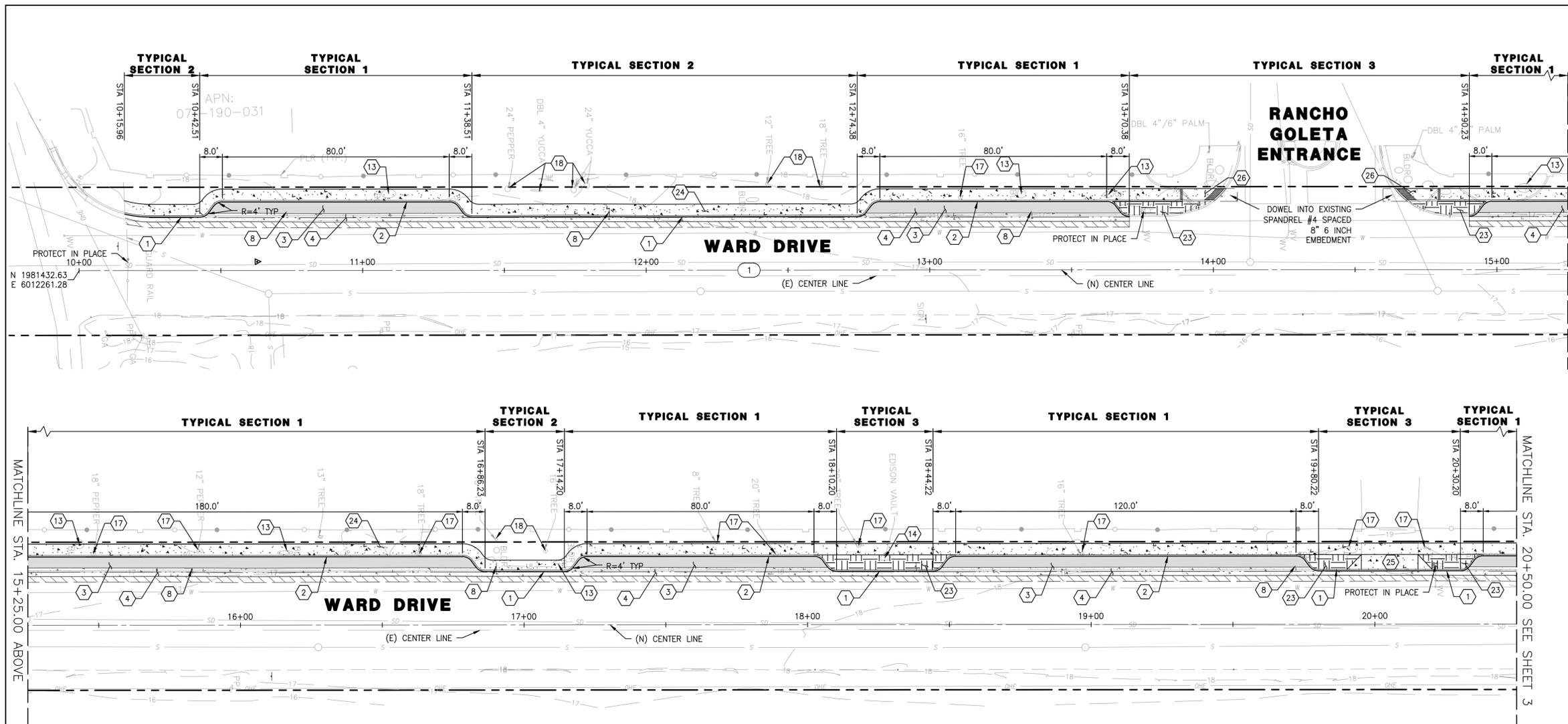
San Luis Obispo San Diego - Denver - Riverside - Orange - Sacramento - Phoenix - Tucson



**REGISTERED PROFESSIONAL ENGINEER**  
No. 8420  
PUBLIC WORKS  
STATE OF CALIFORNIA

PROJECT ENGINEER

FOR BIDDING PURPOSES ONLY



**CONSTRUCTION NOTES**

- 1 CONSTRUCT MODIFIED TYPE A2 CURB PER CALTRANS RSP DTL A87A
- 2 CONSTRUCT TYPE A1-6 CURB PER CALTRANS RSP DTL A87A
- 3 CONSTRUCT 8" FULL DEPTH HMA PER PLAN
- 4 CONSTRUCT CONCRETE CROSS GUTTER PER TYPICAL DTL 8 ON SHEET 10
- 5 ADJUST EXISTING UTILITY TO GRADE
- 6 INSTALL STORM DRAIN INLET "BUBBLER & INFILTRATION BASE" PER DETAIL A, THIS SHEET. CONCRETE GUTTER TRANSITIONS SHALL BE PER MODIFIED COUNTY DETAIL 3-020
- 7 RELOCATE OR ADJUST FIRE HYDRANT (BY OTHERS)
- 8 RELOCATE SIGN/MAIL BOX
- 9 REMOVE AND SALVAGE BOLLARD
- 10 ABANDON EXISTING 24" CMP PIPE
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- 14 ADJUST EDISON VAULT (BY OTHERS)
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- 16 INSTALL BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD DTL A24C
- 17 REMOVE TREE
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- 20 CLEAR & GRUB EXISTING LANDSCAPE PRIOR TO HMA INSTALLATION
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- 23 PROPOSED PARKWAY
- 24 CONSTRUCT SIDEWALK PER COUNTY OF SANTA BARBARA DTL 5-040
- 25 CONSTRUCT DRIVEWAY APPROACH PER CALTRANS STD DTL A87A
- 26 CONSTRUCT CASE F CURB RAMP PER CALTRANS STD DTL RSP A88A

**GENERAL NOTES**

1. CONTRACTOR TO REMOVE EXISTING IRRIGATION TO WITHIN 2' OF NEW EDGE OF PAVEMENT OR BACK OF WALK AND CAP.
2. COUNTY TO OBTAIN OFFSITE GRADING AND DRIVEWAY RECONSTRUCTION APPROVAL PRIOR TO THE START OF CONSTRUCTION.
3. DIMENSIONS ARE REFERENCED FROM (N) CL
4. ELEVATIONS WILL BE PROVIDED IN BID ADDENDUM

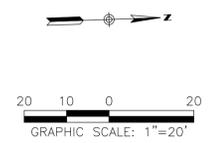
**CAUTION!!!**  
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**APPROXIMATE QUANTITIES (THIS SHEET)**

ITEM	QTY.
1. CONCRETE TYPE A1-6 CONCRETE CURB	662 LF
2. CONCRETE V-GUTTER	640 LF
3. CONCRETE CURB & GUTTER	275 LF
4. PAVEMENT SECTION (8" FULL DEPTH HMA)	4,149 SF
5. CONCRETE SIDEWALK	3,946 SF
6. CONCRETE DRIVEWAY APPROACH	136 SF
7. CONCRETE ADA RAMP	124 SF
8. PARKWAY	749 SF
9. RELOCATE SIGN	6 EA
10. RELOCATE LANDSCAPE BOULDER	6 EA
11. ADJUST EDISON VAULT BY OTHERS	1 EA
12. REMOVE TREE	10

CL ALIGN-WARD DRIVE						
NUMBER	RADIUS	LENGTH	DELTA (Δ)	LINE/CHORD DIRECTION	STATION BEGIN	STATION END
1		1262.77'		N01° 57' 36"E	10+00.00	22+62.77

**RICK ENGINEERING COMPANY**  
 1160 MARSH STREET - SUITE 150  
 SAN LUIS OBISPO, CA 93401  
 805.544.0707  
 (FAX) 805.544.2052  
 San Luis Obispo San Diego - Denver - Riverside - Orange - Sacramento - Phoenix - Tucson



NO.	REVISION DESCRIPTION	REVISED BY	ACCEPT. BY	DATE
1				

**REGISTERED PROFESSIONAL ENGINEER**  
 No. 6422  
 State of California  
*Thomas E. White*  
 PROJECT ENGINEER

**WARD DRIVE CLASS II BIKE LANE PROJECT**  
 IMPROVEMENT PLAN - WARD DRIVE

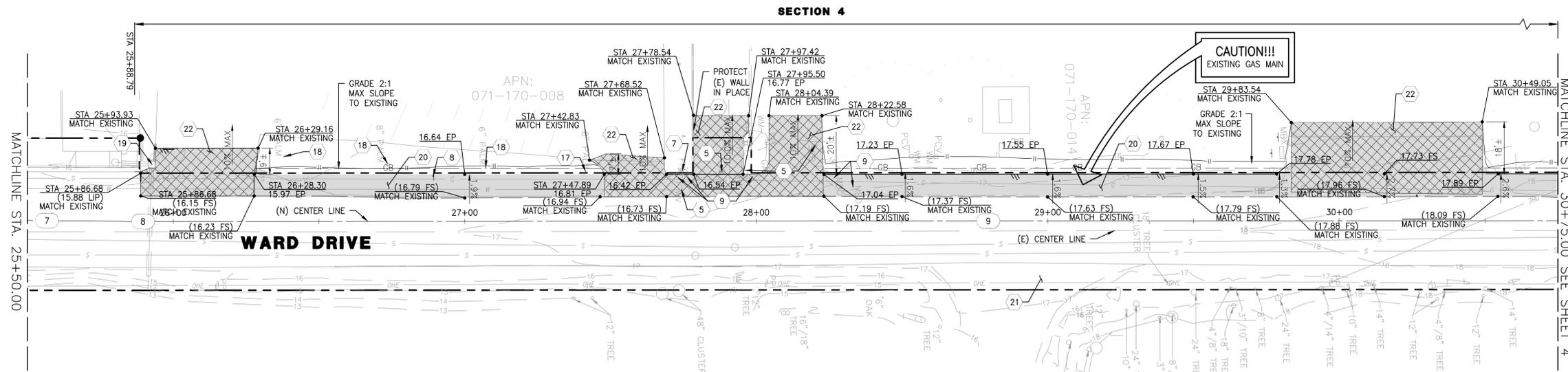
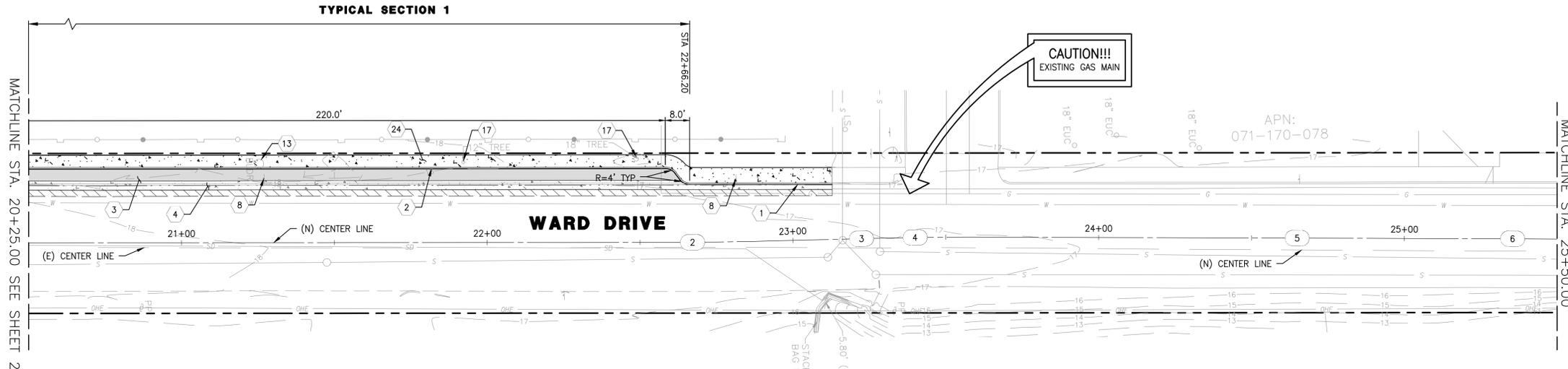
CITY OF GOLETA  
 DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'	REVIEWED FOR COMPLIANCE BY:	SHEET NO. 2
DATE: 12/21/2016	SIGNATURE _____ DATE _____	OF 13 SHEETS
DRAWN BY: KCS	SIGNATURE _____ DATE _____	DRAWING NO.
CHECKED BY: TEM	SIGNATURE _____ DATE _____	
JOB NO: 17775		

13/17775 Ward Drive Class II Bike Lane(17775-02) 2016-12-21 4:13PM - 100

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**CONSTRUCTION NOTES**

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**GENERAL NOTES**

1. CONTRACTOR TO REMOVE EXISTING IRRIGATION TO WITHIN 2' OF NEW EDGE OF PAVEMENT OR BACK OF WALK AND CAP.
2. COUNTY TO OBTAIN OFFSITE GRADING AND DRIVEWAY RECONSTRUCTION APPROVAL PRIOR TO THE START OF CONSTRUCTION.
3. DIMENSIONS ARE REFERENCED FROM (N) CL
4. ELEVATIONS WILL BE PROVIDED IN BID ADDENDUM

**APPROXIMATE QUANTITIES (THIS SHEET)**

ITEM	QTY.	UNIT
1. CONCRETE V-GUTTER	216	LF
2. CALTRANS TYPE A1-6 CONCRETE CURB	216	LF
3. CONCRETE CURB AND GUTTER	47	LF
4. PAVEMENT SECTION (8" FULL DEPTH HMA)	525	SF
5. PAVEMENT WIDENING (6" HMA/12" AB)	2,400	SF
6. DRIVEWAY TRANSITION (6" FULL DEPTH HMA)	3,635	SF
7. CONCRETE SIDEWALK	1,055	SF
8. RELOCATE SIGN	3	EA
9. MODIFY DRAINAGE INLET PER PLAN	1	EA
10. RELOCATE FIRE HYDRANT BY OTHERS	1	EA
11. ADJUST UTILITY TO GRADE	3	EA
12. REMOVE AND SALVAGE BOLLARD	5	EA
13. REMOVE TREE	2	EA
14. RELOCATE LANDSCAPE BOULDER	1	EA

**CAUTION!!!**  
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CL ALIGN-WARD DRIVE						
NUMBER	RADIUS	LENGTH	DELTA (Δ)	LINE/CHORD DIRECTION	STATION BEGIN	STATION END
2	1000.00'	23.93'	1'22'16"	N01° 16' 28"E	22+62.77	22+86.71
3		43.74'		N00° 35' 20"E	22+86.71	23+30.44
4	1000.00'	27.66'	1'35'06"	N01° 22' 53"E	23+30.44	23+58.11
5		177.22'		N02° 10' 26"E	23+58.11	25+35.32
6	1000.00'	6.23'	0'21'24"	N02° 21' 08"E	25+35.32	25+41.55
7		42.02'		N02° 31' 51"E	25+41.55	25+83.57
8	1000.00'	9.74'	0'33'28"	N02° 15' 07"E	25+83.57	25+93.30
9		579.17'		N01° 58' 22"E	25+93.30	31+72.47

**RICK ENGINEERING COMPANY**  
 1160 MARSH STREET - SUITE 150  
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 San Luis Obispo San Diego - Denver - Riverside - Orange - Sacramento - Phoenix - Tucson



NO.	REVISION DESCRIPTION	REVISED BY	ACCEPT. BY	DATE
1				



**REGISTERED PROFESSIONAL ENGINEER**  
 PUBLIC UTILITIES  
 No. 6422  
 State of California  
 Thomas E. White  
 PROJECT ENGINEER

**WARD DRIVE CLASS II BIKE LANE PROJECT**  
 IMPROVEMENT PLAN - WARD DRIVE  
 CITY OF GOLETA  
 DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'  
 DATE: 12/21/2016  
 DRAWN BY: KCS  
 CHECKED BY: TEM  
 JOB NO: 17775

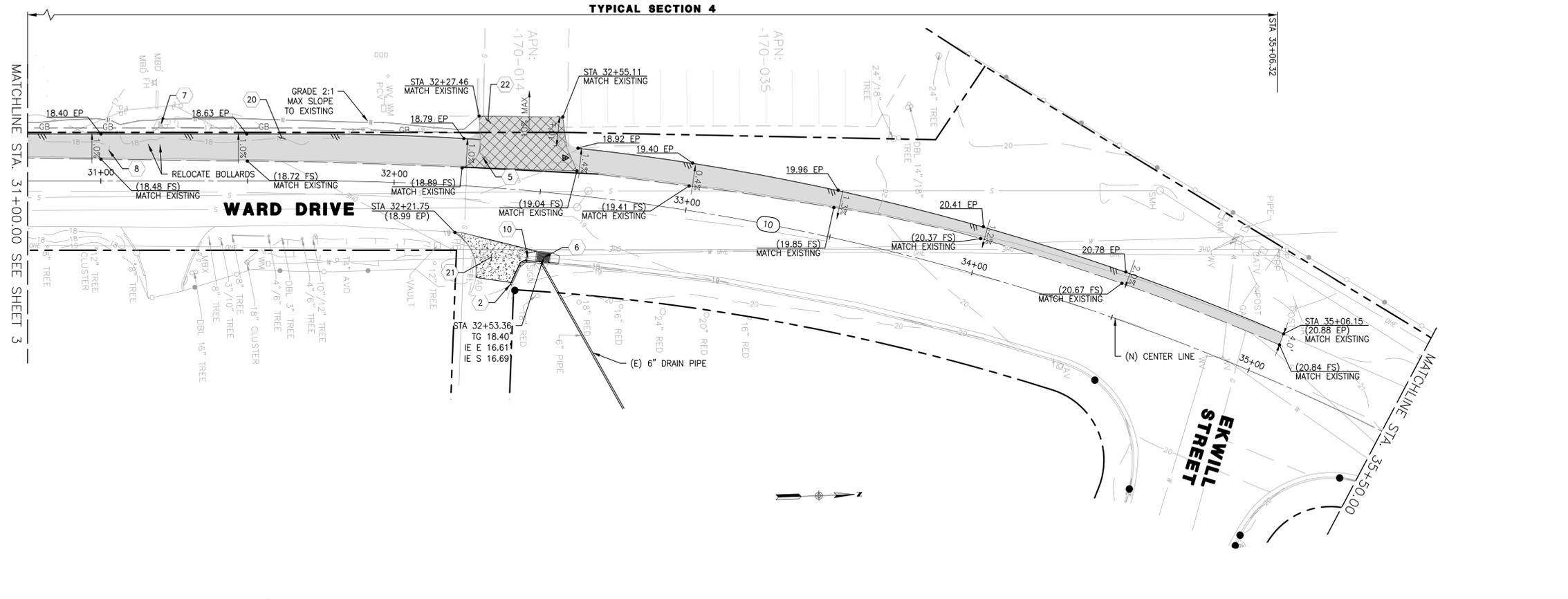
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SHEET NO. **3**  
 OF 13 SHEETS  
 DRAWING NO. \_\_\_\_\_

2016 Rick Engineering Company

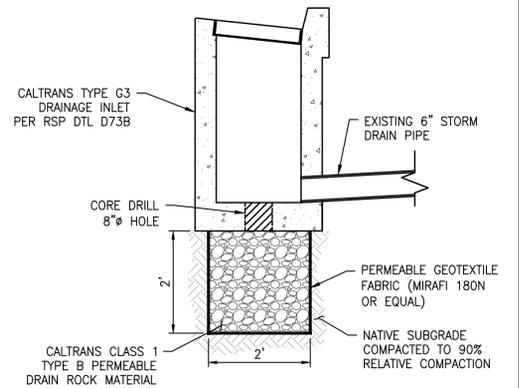
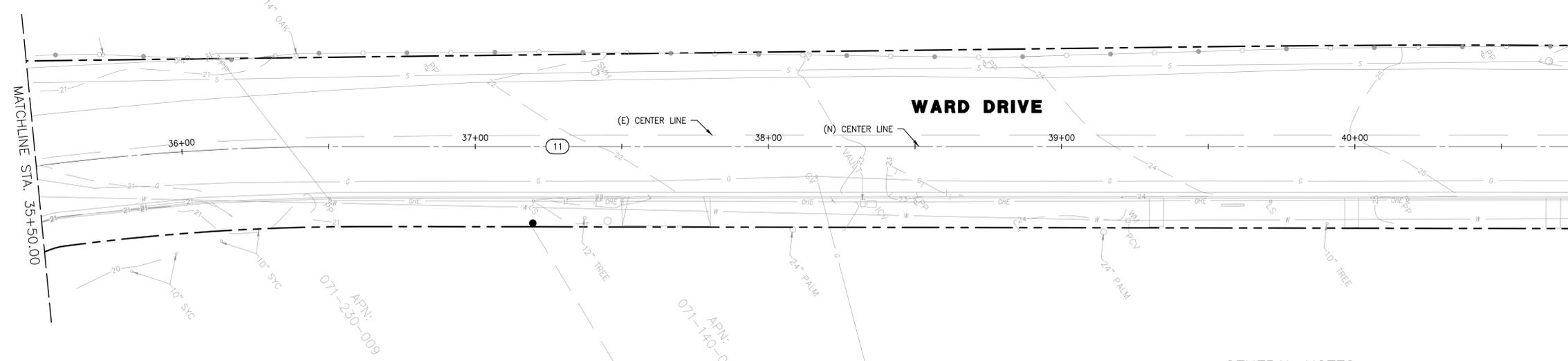
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**TYPICAL SECTION 4**



**CONSTRUCTION NOTES**

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**A BUBBLER & INFILTRATION BASE**  
N.T.S.

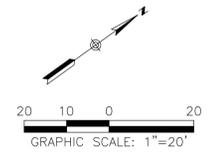
**GENERAL NOTES**

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3. DIMENSIONS ARE REFERENCED FROM (N) CL
4. ELEVATIONS WILL BE PROVIDED IN BID ADDENDUM

**APPROXIMATE QUANTITIES (THIS SHEET)**

ITEM	QTY.	
1. PAVEMENT WIDENING (6" HMA/12" AB)	2,800	SF
2. DRIVEWAY TRANSITION (6" FULL DEPTH HMA)	560	SF
3. DRIVEWAY TRANSITION (AGGREGATE)	231	SF
4. RELOCATE SIGN	1	EA
5. RELOCATE FIRE HYDRANT BY OTHERS	1	EA
6. ADJUST UTILITY WILL TO GRADE	1	EA
7. BUBBLER AND INFILTRATION BASE	1	EA
8. RELOCATE BOLLARDS	2	EA

**CAUTION!!!**  
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NO.	REVISION DESCRIPTION	REVISED BY	ACCEPT. BY	DATE
1				



CL ALIGN-WARD DRIVE						
NUMBER	RADIUS	LENGTH	DELTA (Δ)	LINE/CHORD DIRECTION	STATION BEGIN	STATION END
10	825.00'	482.15'	33°29'05"	N18° 42' 55"E	31+72.47	36+54.62
11		661.16'		N35° 27' 28"E	36+54.62	43+15.78

**WARD DRIVE CLASS II BIKE LANE PROJECT**  
IMPROVEMENT PLAN - WARD DRIVE

CITY OF GOLETA  
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'  
DATE: 12/21/2016  
DRAWN BY: KCS  
CHECKED BY: TEM  
JOB NO: 17775

REVIEWED FOR COMPLIANCE BY:  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

SHEET NO. **4**  
OF 13 SHEETS  
DRAWING NO.

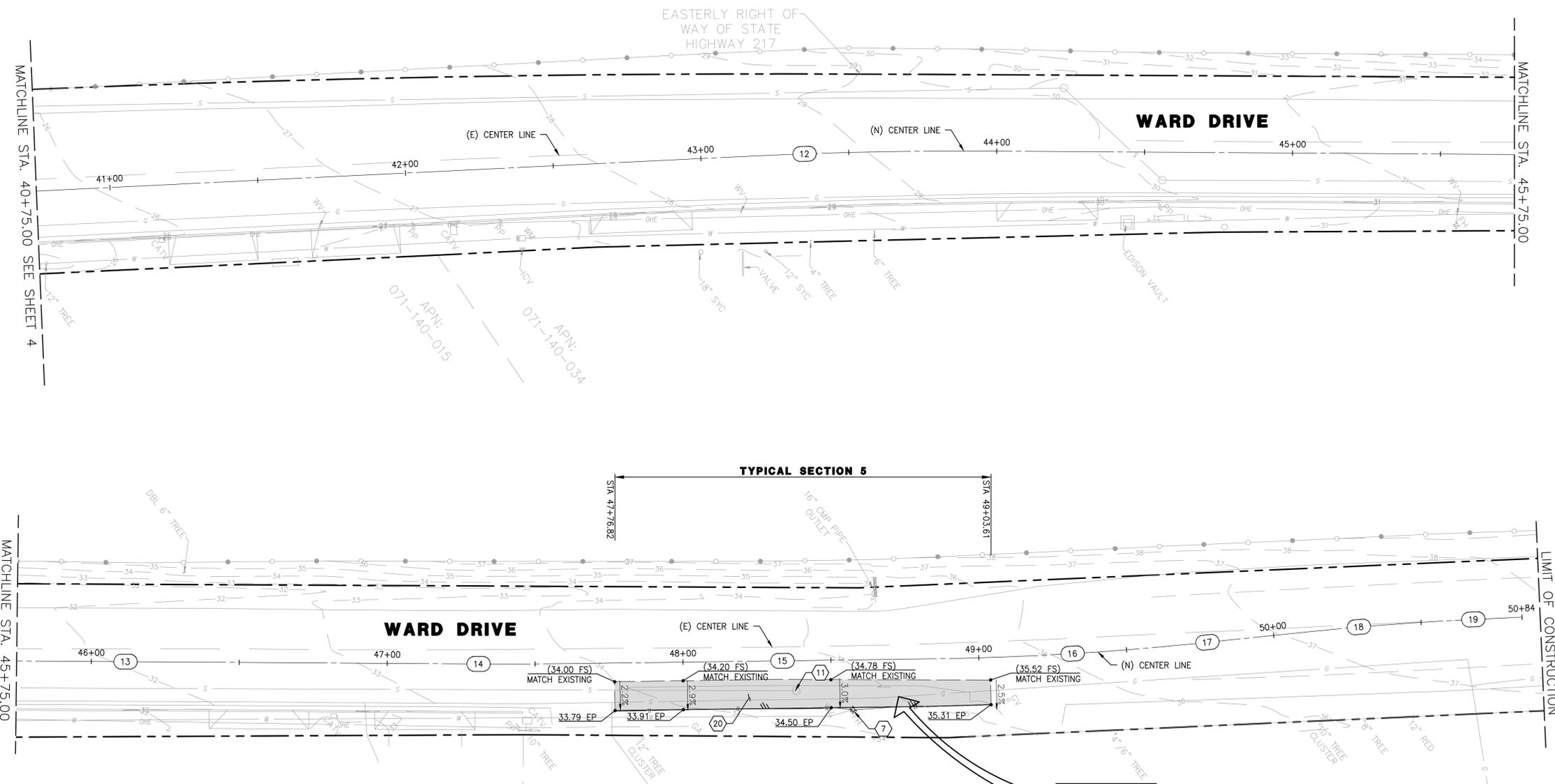
PROJECT ENGINEER: *Thomas E. White*

**RICK ENGINEERING COMPANY**  
1160 MARSH STREET - SUITE 150  
SAN LUIS OBISPO, CA 93401  
805.544.0707  
(FAX) 805.544.2052

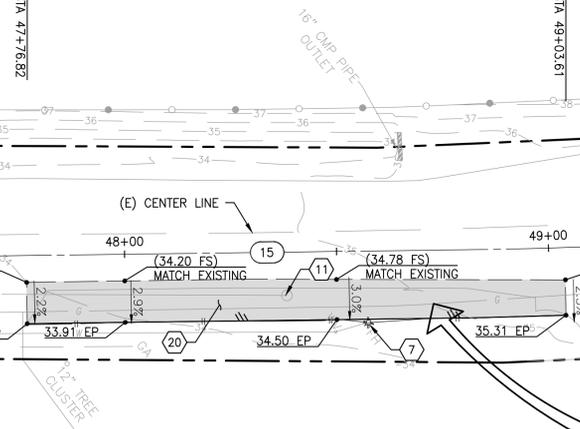
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**TYPICAL SECTION 5**



**CAUTION!!!**  
EXISTING GAS MAIN

**CONSTRUCTION NOTES**

- 1 CONSTRUCT MODIFIED TYPE A2 CURB PER CALTRANS RSP DTL A87A
- 2 CONSTRUCT TYPE A1-6 CURB PER CALTRANS RSP DTL A87A
- 3 CONSTRUCT 8" FULL DEPTH HMA PER PLAN
- 4 CONSTRUCT CONCRETE CROSS GUTTER PER TYPICAL DTL 8 ON SHEET 10
- 5 ADJUST EXISTING UTILITY TO GRADE
- 6 INSTALL STORM DRAIN INLET "BUBBLER & INFILTRATION BASE" PER DETAIL A, THIS SHEET. CONCRETE GUTTER TRANSITIONS SHALL BE PER MODIFIED COUNTY DETAIL 3-020
- 7 RELOCATE OR ADJUST FIRE HYDRANT (BY OTHERS)
- 8 RELOCATE SIGN/MAIL BOX
- 9 REMOVE AND SALVAGE BOLLARD
- 10 ABANDON EXISTING 24" CMP PIPE
- 11 ADJUST SEWER MANHOLE TO GRADE PER SPPWC DTL 205-2
- 12 TYPE 2 SLURRY SEAL
- 13 RELOCATE LANDSCAPE BOULDER
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- 15 INSTALL BIKE LANE ARROW PER CALTRANS STD DTL A24A
- 16 INSTALL BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD DTL A24C
- 17 REMOVE TREE
- 18 PROTECT EXISTING TREE IN PLACE
- 19 MODIFY EXISTING DRAINAGE INLET PER DETAIL 9 ON SHEET 11
- 20 CLEAR & GRUB EXISTING LANDSCAPE PRIOR TO HMA INSTALLATION
- 21 FINISH GRADE AGGREGATE DRIVEWAY TO CREATE SMOOTH TRANSITION
- 22 DRIVEWAY TRANSITION PER DTL 8 ON SHT 10. CONTRACTOR SHALL FIELD VERIFY LENGTH OF TRANSITION BASED ON ACTUAL GRADES.
- 23 PROPOSED PARKWAY
- 24 CONSTRUCT SIDEWALK PER COUNTY OF SANTA BARBARA DTL 5-040
- 25 CONSTRUCT DRIVEWAY APPROACH PER CALTRANS STD DTL A87A
- 26 CONSTRUCT CASE F CURB RAMP PER CALTRANS STD DTL RSP A88A

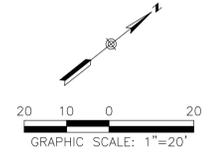
**GENERAL NOTES**

1. CONTRACTOR TO REMOVE EXISTING IRRIGATION TO WITHIN 2' OF NEW EDGE OF PAVEMENT OR BACK OF WALK AND CAP.
2. COUNTY TO OBTAIN OFFSITE GRADING AND DRIVEWAY RECONSTRUCTION APPROVAL PRIOR TO THE START OF CONSTRUCTION.
3. DIMENSIONS ARE REFERENCED FROM (N) CL
4. ELEVATIONS WILL BE PROVIDED IN BID ADDENDUM

**APPROXIMATE QUANTITIES (THIS SHEET)**

ITEM	QTY.
1. PAVEMENT WIDENING (6" HMA/12" AB)	1,200 SF
2. RELOCATE FIRE HYDRANT BY OTHERS	1 EA
3. ADJUST SEWER MANHOLE TO GRADE	1 EA

**CAUTION!!!**  
LOCATION OF EXIST UTILITIES ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES & NOTIFY ENGINEER OF WORK OF CHANGED FIELD CONDITIONS PRIOR TO CONSTRUCTION.



NO.	REVISION DESCRIPTION	REVISED BY	ACCEPT. BY	DATE
1				



CL ALIGN-WARD DRIVE						
NUMBER	RADIUS	LENGTH	DELTA (Δ)	LINE/CHORD DIRECTION	STATION BEGIN	STATION END
12	1500.00'	82.77'	3°09'41"	N37° 02' 18"E	43+15.78	43+98.55
13		332.34'		N38° 37' 09"E	43+98.55	47+30.89
14	1500.00'	29.36'	1°07'17"	N38° 03' 30"E	47+30.89	47+60.24
15		123.80'		N37° 29' 52"E	47+60.24	48+84.04
16	1000.00'	90.18'	5°10'01"	N34° 54' 51"E	48+84.04	49+74.22
17		36.67'		N32° 19' 51"E	49+74.22	50+10.89
18	1000.00'	56.49'	3°14'12"	N33° 56' 57"E	50+10.89	50+67.38
19		16.79'		N35° 34' 03"E	50+67.38	50+84.17

**WARD DRIVE CLASS II BIKE LANE PROJECT**  
IMPROVEMENT PLAN - WARD DRIVE

CITY OF GOLETA  
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'  
DATE: 12/21/2016  
DRAWN BY: KCS  
CHECKED BY: TEM  
JOB NO: 17775

REVIEWED FOR COMPLIANCE BY:  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT ENGINEER  
*Thomas E. White*

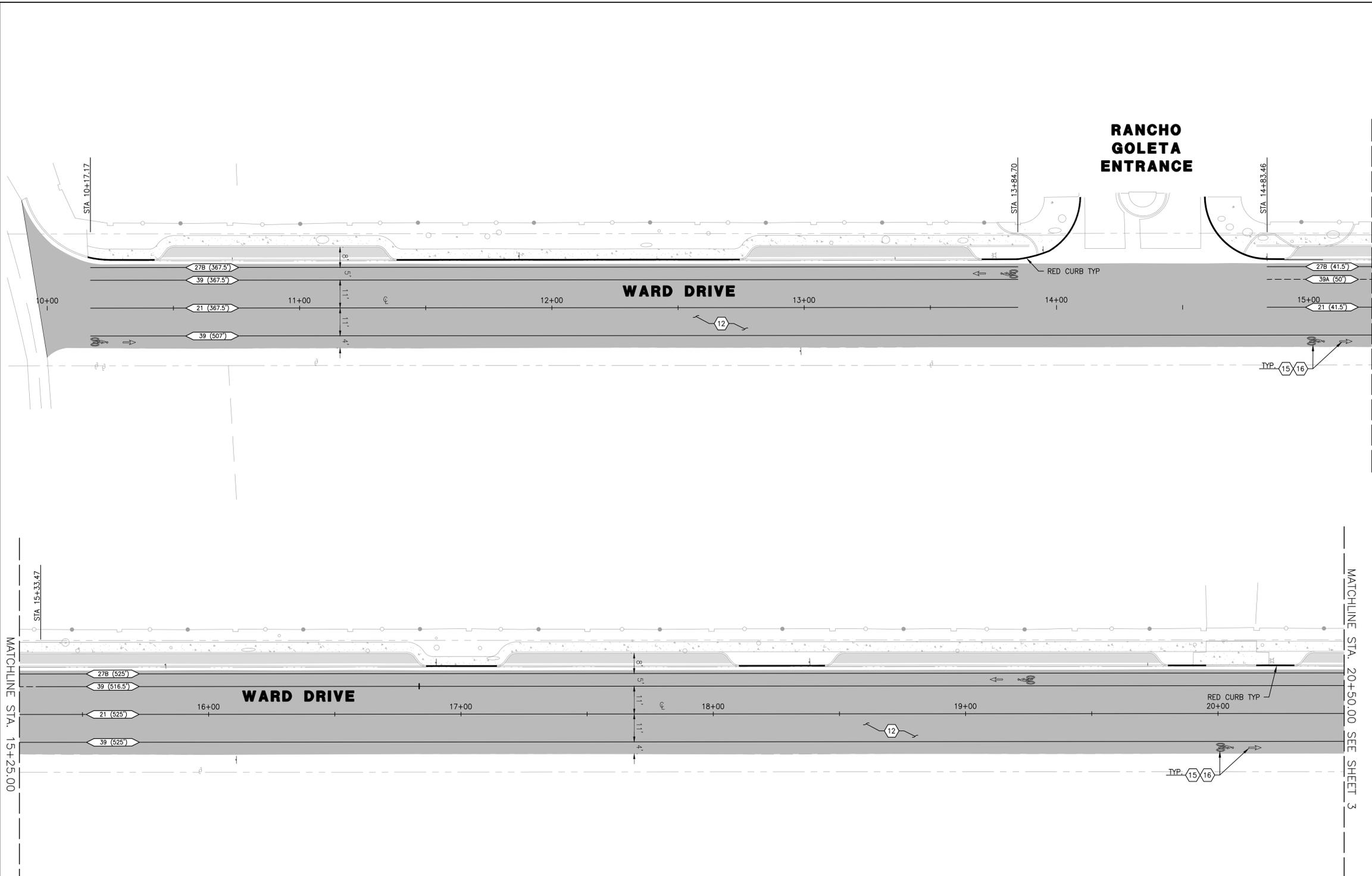
SHEET NO. **5**  
OF **13** SHEETS  
DRAWING NO. \_\_\_\_\_

**RICK ENGINEERING COMPANY**  
1160 MARSH STREET - SUITE 150  
SAN LUIS OBISPO, CA 93401  
805.544.0707  
(FAX) 805.544.2052  
San Luis Obispo San Diego - Denver - Riverside - Orange - Sacramento - Phoenix - Tucson

13/17775 Ward Drive Class II Bike Lane(2)012117775-0-0000.dwg 2016-12-21 4:11PM - Auto

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**CONSTRUCTION NOTES**

- 1 CONSTRUCT MODIFIED TYPE A2 CURB PER CALTRANS RSP DTL A87A
- 2 CONSTRUCT TYPE A1-6 CURB PER CALTRANS RSP DTL A87A
- 3 CONSTRUCT 8" FULL DEPTH HMA PER PLAN
- 4 CONSTRUCT CONCRETE CROSS GUTTER PER TYPICAL DTL 8 ON SHEET 10
- 5 ADJUST EXISTING UTILITY TO GRADE
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- 8 RELOCATE SIGN/MAIL BOX
- 9 REMOVE AND SALVAGE BOLLARD
- 10 ABANDON EXISTING 24" CMP PIPE
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- 23 PROPOSED PARKWAY
- 24 CONSTRUCT SIDEWALK PER COUNTY OF SANTA BARBARA DTL 5-040
- 25 CONSTRUCT DRIVEWAY APPROACH PER CALTRANS STD DTL A87A
- 26 CONSTRUCT CASE F CURB RAMP PER CALTRANS STD DTL RSP A88A

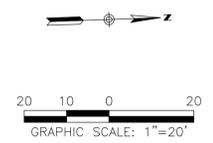
**STRIPING NOTES**

1. FOR CENTER LINE ALIGNMENT SEE SHEETS 2-5.
2. STRIPING LAYOUT TO BE MEASURED IN REFERENCE TO NEW CENTER LINE ALIGNMENT.

**APPROXIMATE QUANTITIES (THIS SHEET)**

ITEM	QTY.	
1. CALTRANS STRIPING DETAIL 21	893	LF
2. CALTRANS STRIPING DETAIL 27B	934	LF
3. CALTRANS STRIPING DETAIL 39	1,916	LF
4. CALTRANS STRIPING DETAIL 39A	50	LF
5. CALTRANS BIKE LANE SYMBOL WITH PERSON	5	EA
6. CALTRANS BIKE LANE ARROW	5	EA
7. TYPE II SLURRY SEAL	34,767	SF
8. RED PAINT	343	LF

**RICK ENGINEERING COMPANY**  
 1160 MARSH STREET - SUITE 150  
 SAN LUIS OBISPO, CA 93401  
 805.544.0707  
 (FAX) 805.544.2052  
 San Luis Obispo San Diego - Denver - Riverside - Orange - Sacramento - Phoenix - Tucson



NO.	REVISION DESCRIPTION	REVISED BY	ACCEPT. BY	DATE
△	-	-	-	-



**REGISTERED PROFESSIONAL ENGINEER**  
 PUBLIC UTILITIES  
 No. 6422  
 STATE OF CALIFORNIA  
 PROJECT ENGINEER  
*Thomas E. White*

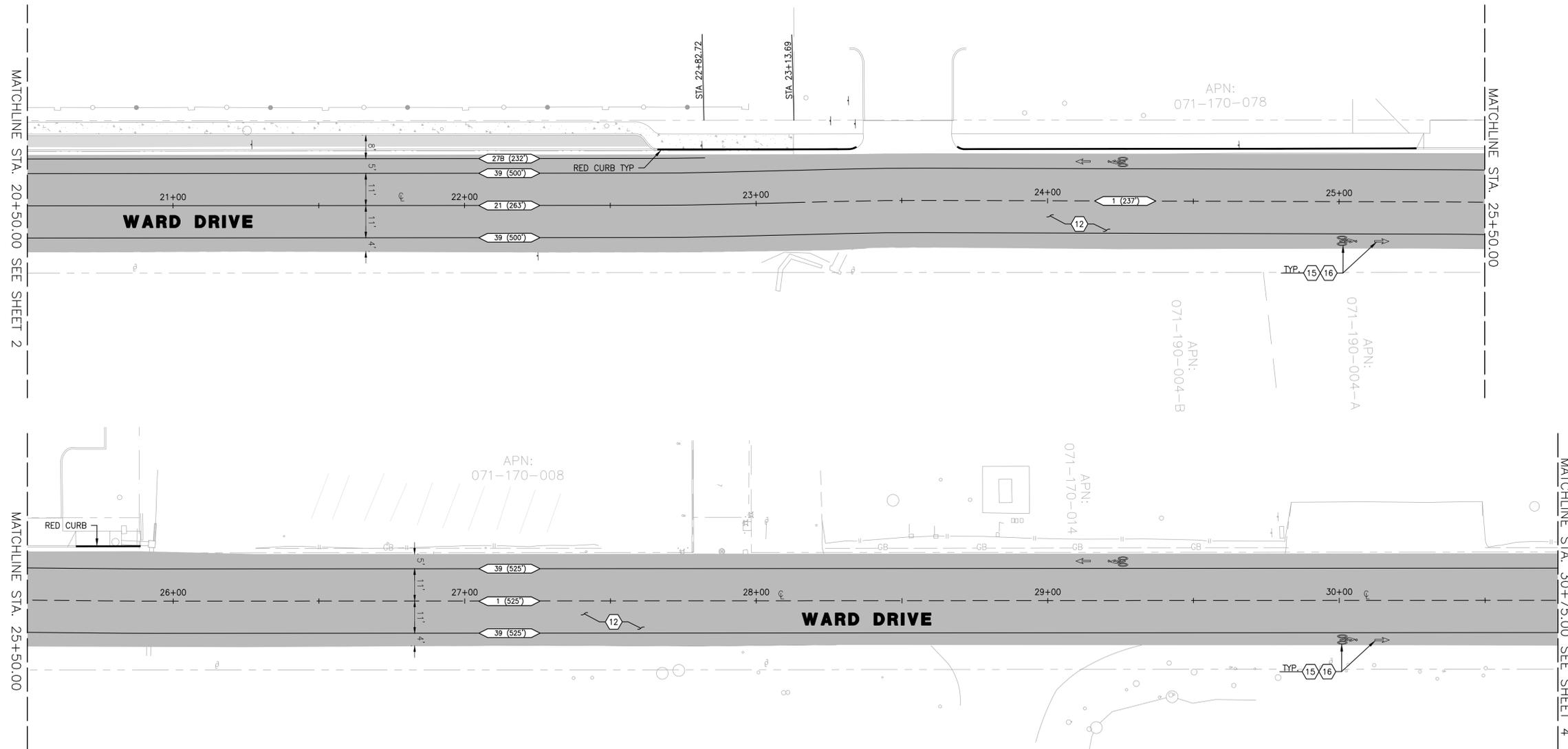
**WARD DRIVE CLASS II BIKE LANE PROJECT**  
**SEALING & STRIPING PLAN - WARD DRIVE**  
 CITY OF GOLETA  
 DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'	REVIEWED FOR COMPLIANCE BY:	SHEET NO. 6
DATE: 12/21/2016	SIGNATURE _____ DATE _____	OF 13 SHEETS
DRAWN BY: KCS	SIGNATURE _____ DATE _____	DRAWING NO.
CHECKED BY: TEM	SIGNATURE _____ DATE _____	
JOB NO: 17775		

13/1775 Ward Drive Class II Bike Lane Seal & Striping Plan 12/21/2016 12:21 - 4:10PM - 100

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**CONSTRUCTION NOTES**

- 1 CONSTRUCT MODIFIED TYPE A2 CURB PER CALTRANS RSP DTL A87A
- 2 CONSTRUCT TYPE A1-6 CURB PER CALTRANS RSP DTL A87A
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- 25 CONSTRUCT DRIVEWAY APPROACH PER CALTRANS STD DTL A87A
- 26 CONSTRUCT CASE F CURB RAMP PER CALTRANS STD DTL RSP A88A

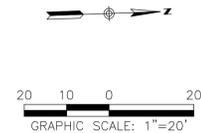
**STRIPING NOTES**

1. FOR CENTER LINE ALIGNMENT SEE SHEETS 2-5.
2. STRIPING LAYOUT TO BE MEASURED IN REFERENCE TO NEW CENTER LINE ALIGNMENT.

**APPROXIMATE QUANTITIES (THIS SHEET)**

ITEM	QTY.	LF	EA	SF	LF
1. CALTRANS STRIPING DETAIL 1	762	LF			
2. CALTRANS STRIPING DETAIL 21	263	LF			
3. CALTRANS STRIPING DETAIL 27B	232	LF			
4. CALTRANS STRIPING DETAIL 39	2,050	LF			
5. CALTRANS BIKE LANE SYMBOL WITH PERSON	4	EA			
6. CALTRANS BIKE LANE ARROW	4	EA			
7. TYPE II SLURRY SEAL	34,767	SF			
8. PAINT RED CURB	247	LF			

**RICK ENGINEERING COMPANY**  
 1160 MARSH STREET - SUITE 150  
 SAN LUIS OBISPO, CA 93401  
 805.544.0707  
 (FAX) 805.544.2052  
 San Diego - Denver - Riverside - Orange - Sacramento - Phoenix - Tucson



NO.	REVISION DESCRIPTION	REVISED BY	ACCEPT. BY	DATE
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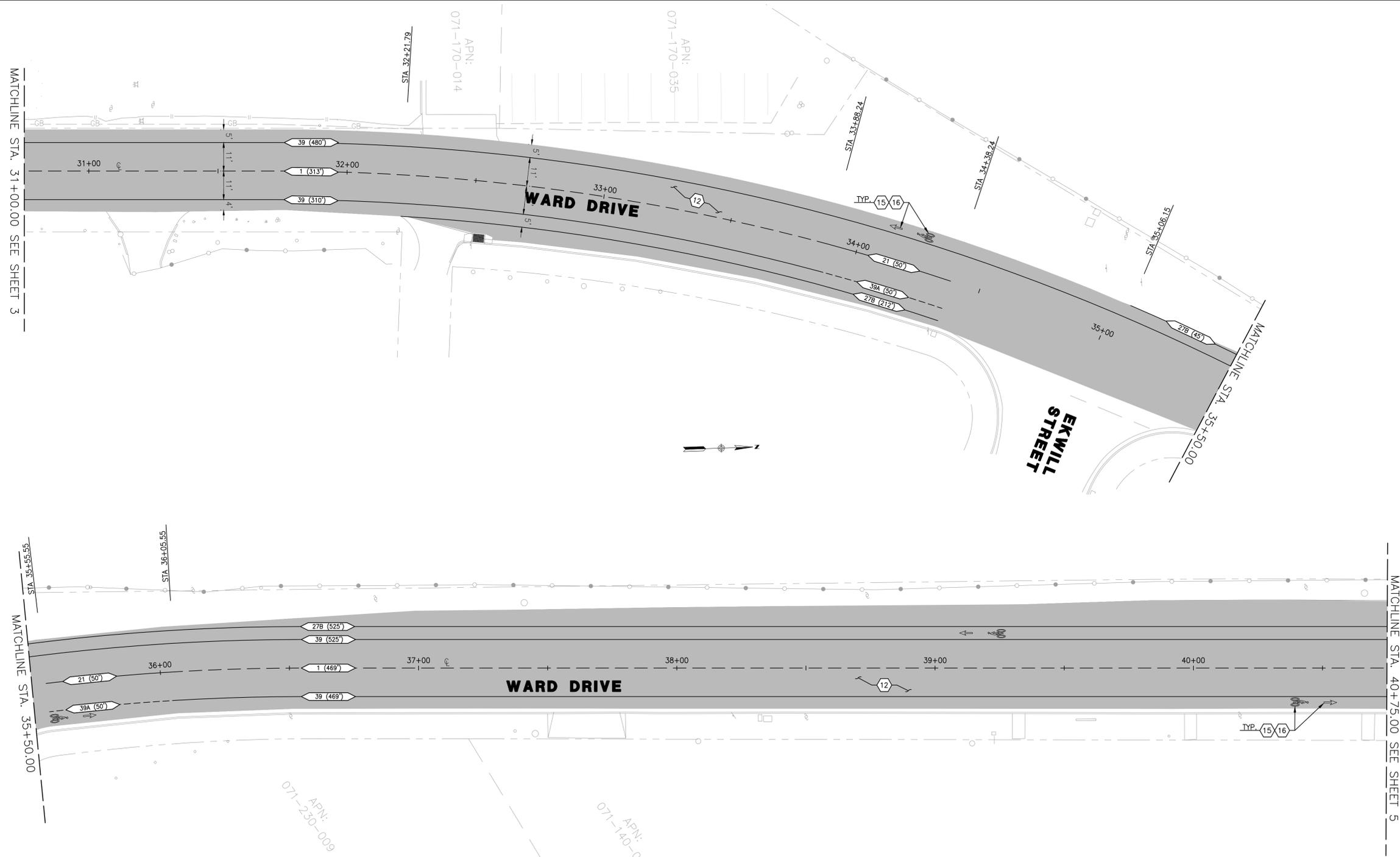
**REGISTERED PROFESSIONAL ENGINEER**  
 PUBLIC UTILITIES  
 No. 6422  
 STATE OF CALIFORNIA  
*Thomas E. White*  
 PROJECT ENGINEER

WARD DRIVE CLASS II BIKE LANE PROJECT			
SEALING & STRIPING PLAN - WARD DRIVE			
CITY OF GOLETA DEPARTMENT OF PUBLIC WORKS			
SCALE: 1"=20'	REVIEWED FOR COMPLIANCE BY:	SHEET NO. 7	
DATE: 12/21/2016	SIGNATURE _____ DATE _____	OF 13 SHEETS	
DRAWN BY: KCS	SIGNATURE _____ DATE _____	DRAWING NO.	
CHECKED BY: TEM	SIGNATURE _____ DATE _____		
JOB NO: 17775			

17775\_RWD\_Bike\_Lane\_Sealing\_Striping\_Plan\_2016-12-21 - 411904 - 000

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**CONSTRUCTION NOTES**

- 1 CONSTRUCT MODIFIED TYPE A2 CURB PER CALTRANS RSP DTL A87A
- 2 CONSTRUCT TYPE A1-6 CURB PER CALTRANS RSP DTL A87A
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- 24 CONSTRUCT SIDEWALK PER COUNTY OF SANTA BARBARA DTL 5-040
- 25 CONSTRUCT DRIVEWAY APPROACH PER CALTRANS STD DTL A87A
- 26 CONSTRUCT CASE F CURB RAMP PER CALTRANS STD DTL RSP A88A

**STRIPING NOTES**

1. FOR CENTER LINE ALIGNMENT SEE SHEETS 2-5.
2. STRIPING LAYOUT TO BE MEASURED IN REFERENCE TO NEW CENTER LINE ALIGNMENT.

**APPROXIMATE QUANTITIES (THIS SHEET)**

ITEM	QTY.	LF	EA	SF
1. CALTRANS STRIPING DETAIL 1	782	LF		
2. CALTRANS STRIPING DETAIL 21	100	LF		
3. CALTRANS STRIPING DETAIL 27B	782	LF		
4. CALTRANS STRIPING DETAIL 39	1,734	LF		
5. CALTRANS STRIPING DETAIL 39A	100	LF		
4. CALTRANS BIKE LANE SYMBOL WITH PERSON	4	EA		
5. CALTRANS BIKE LANE ARROW	4	EA		
6. TYPE II SLURRY SEAL	35,441	SF		

**RICK ENGINEERING COMPANY**  
 1160 MARSH STREET - SUITE 150  
 SAN LUIS OBISPO, CA 93401  
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**REGISTERED PROFESSIONAL ENGINEER**  
 PUBLIC UTILITIES  
 No. 6422  
 STATE OF CALIFORNIA  
*Thomas E. White*  
 PROJECT ENGINEER

**WARD DRIVE CLASS II BIKE LANE PROJECT**

**SEALING & STRIPING PLAN - WARD DRIVE**

CITY OF GOLETA DEPARTMENT OF PUBLIC WORKS		SHEET NO. <b>8</b>
SCALE: 1"=20'	REVIEWED FOR COMPLIANCE BY:	OF <b>13</b> SHEETS
DATE: 12/21/2016	SIGNATURE _____ DATE _____	DRAWING NO.
DRAWN BY: KCS	SIGNATURE _____ DATE _____	
CHECKED BY: TEM		
JOB NO: 17775		

13/17775 - Ward Drive - Class II Bike Lane (Public Utilities) 12/21/2016 - 4/1/2016 - 100%

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**CONSTRUCTION NOTES**

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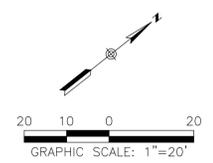
**STRIPING NOTES**

1. FOR CENTER LINE ALIGNMENT SEE SHEETS 2-5.
2. STRIPING LAYOUT TO BE MEASURED IN REFERENCE TO NEW CENTER LINE ALIGNMENT.

**APPROXIMATE QUANTITIES (THIS SHEET)**

ITEM	QTY.	
1. CALTRANS STRIPING DETAIL 1	1,009	LF
2. CALTRANS STRIPING DETAIL 27B	795	LF
3. CALTRANS STRIPING DETAIL 39	2,018	LF
4. CALTRANS BIKE LANE SYMBOL WITH PERSON	4	EA
5. CALTRANS BIKE LANE ARROW	4	EA
6. TYPE II SLURRY SEAL	36,441	SF

**RICK ENGINEERING COMPANY**  
 1160 MARSH STREET - SUITE 150  
 SAN LUIS OBISPO, CA 93401  
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**REGISTERED PROFESSIONAL ENGINEER**  
 No. 6422  
 State of California  
 PUBLIC UTILITIES  
*Thomas E. White*  
 PROJECT ENGINEER

**WARD DRIVE CLASS II BIKE LANE PROJECT**

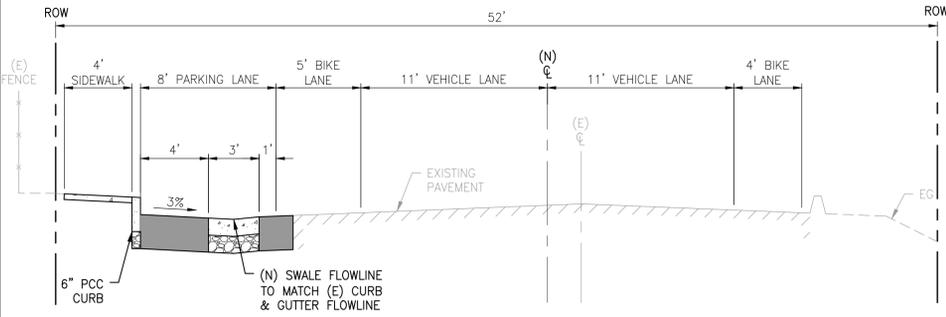
**SEALING & STRIPING PLAN - WARD DRIVE**

CITY OF GOLETA DEPARTMENT OF PUBLIC WORKS		SHEET NO. <b>9</b>
SCALE: 1"=20'	REVIEWED FOR COMPLIANCE BY:	OF <b>13</b> SHEETS
DATE: 12/21/2016	SIGNATURE _____ DATE _____	DRAWING NO.
DRAWN BY: KCS	SIGNATURE _____ DATE _____	
CHECKED BY: TEM		
JOB NO: 17775		

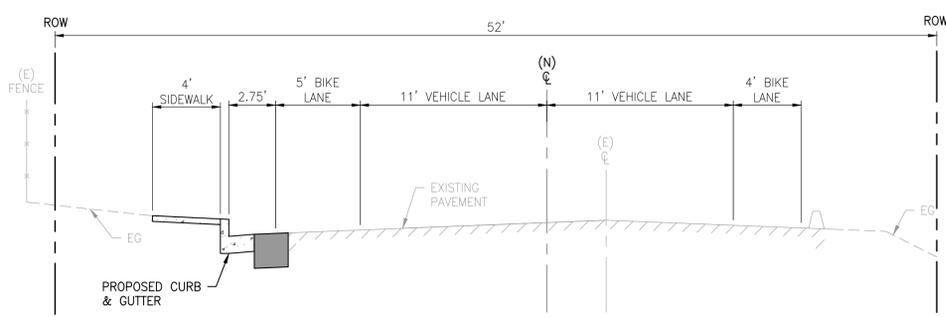
13/17775 Ward Drive Class II Bike Lane Seal & Striping (17775-01) 12/21/2016 - 4:00PM - Auto

2016 Rick Engineering Company

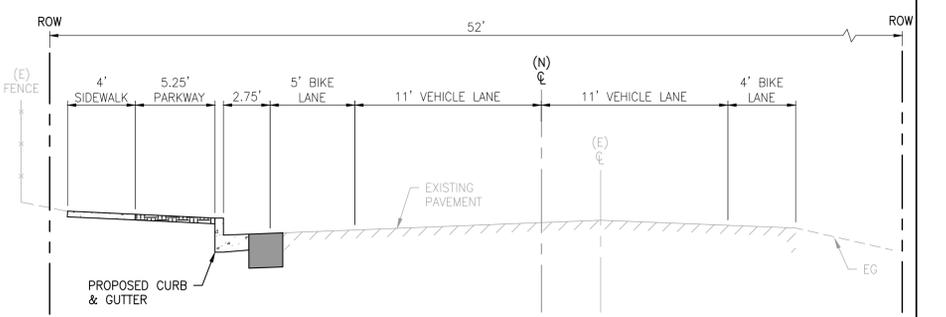
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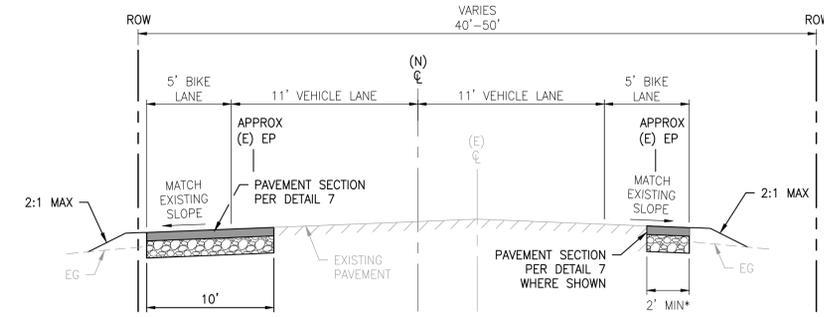
1 TYPICAL SECTION 1  
N.T.S.



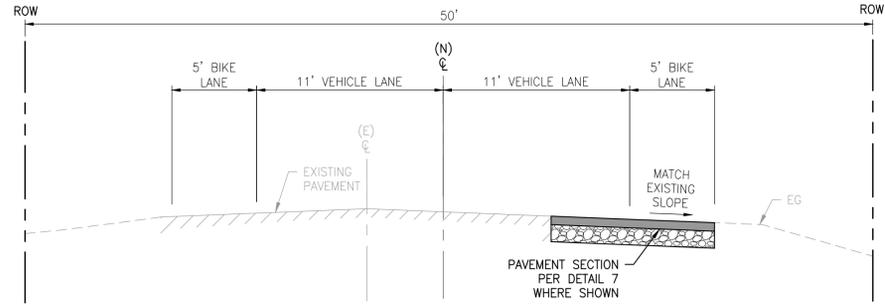
2 TYPICAL SECTION 2  
N.T.S.



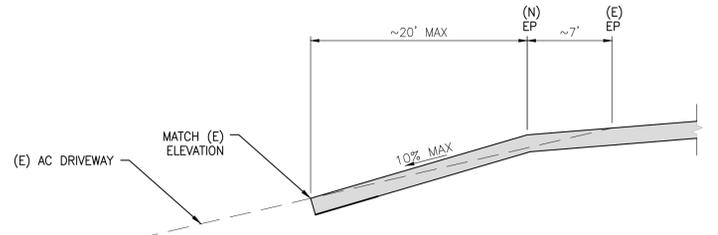
3 TYPICAL SECTION 3  
N.T.S.



4 TYPICAL SECTION 4  
N.T.S.

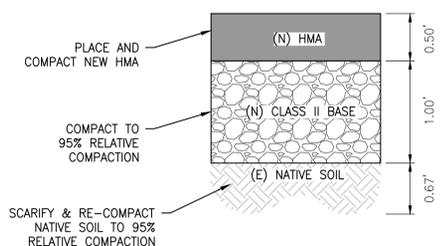
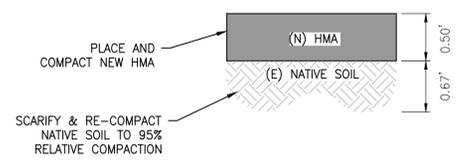
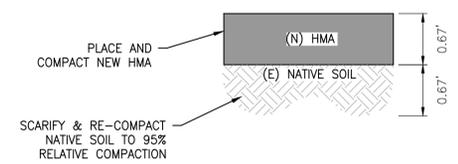


5 TYPICAL SECTION 5  
N.T.S.



6 DRIVEWAY TRANSITION  
N.T.S.

\*CONTRACTOR TO SAWCUT (E) AC AND INSTALL (N) HMA. ALTERNATIVELY, CONTRACTOR MAY GRIND MIN 4" WIDTH AND REPLACE WITH (N) HMA AT NO ADDITIONAL COST TO THE CITY.



7

TYPICAL PAVEMENT SECTIONS  
N.T.S.

\*PRELIMINARY SECTION BASED ON ASSUMED CONDITIONS. FINAL SECTION TO BE DETERMINED DURING THE BID PROCESS BY GEOTECHNICAL ENGINEER

NO.	REVISION DESCRIPTION	REVISED BY	ACCEPT. BY	DATE
△	-	-	-	-



**WARD DRIVE CLASS II BIKE LANE PROJECT**

DETAILS – WARD DRIVE

CITY OF GOLETA  
DEPARTMENT OF PUBLIC WORKS

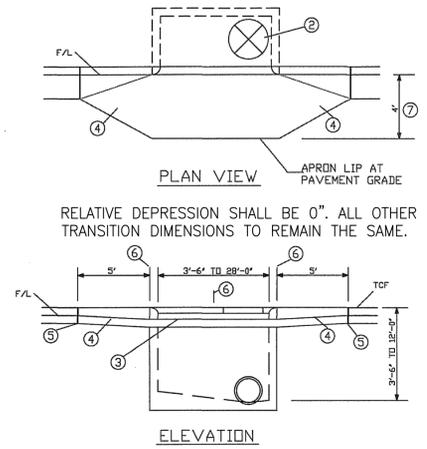
SCALE: N.T.S.	REVIEWED FOR COMPLIANCE BY:	SHEET NO. 10
DATE: 12/21/2016	SIGNATURE _____ DATE _____	OF 13 SHEETS
DRAWN BY: KCS	SIGNATURE _____ DATE _____	DRAWING NO.
CHECKED BY: TEM	SIGNATURE _____ DATE _____	
JOB NO: 17775		

13/17775 - Ward Drive - Class II Bike Lane - Details - 12/21/2016 - 4:00PM - Auto

2016 Rick Engineering Company



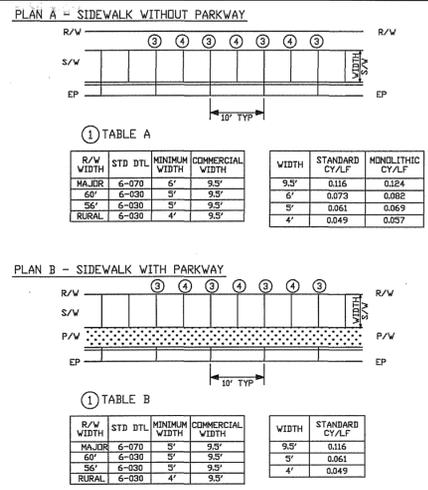
- NOTES: (REFER TO 3-010 FOR ADDITIONAL NOTES)
- FOR AN OPEN CURB DROP INLET OF THE SIZE INDICATED, THE APWA STANDARD PLAN 313 CASE 4" SHALL BE FOLLOWED WITHOUT GRATE. FOR OTHER SIZES, REFER TO THE PROJECT PLANS.
  - STANDARD MANHOLE COVERS 24" OR LARGER SHALL BE PLACED NEAR THE OUTLET AND OVER A SERIES OF STEPS PER APWA STANDARD PLANS SECTION 3.
  - THE FLOWLINE AT THE CURB OPENING SHALL BE DEPRESSED 3" AND SET BACK 1" FROM THE FLOWLINE TO MATCH CURB STANDARD 4-030.
  - GUTTER TRANSITIONS ON EACH SIDE OF THE INLET SHALL DEPRESS THE FLOWLINE ELEVATION AS NEEDED OVER A LENGTH OF 5'. THE TRANSITIONS SHALL ALSO TAPER FROM THE GUTTER LIP TO THE APRON LIP 4" MIN OUT FROM THE FLOW LINE.
  - EXPANSION JOINTS 1/4" THICK SHALL BE PLACED AT THE OUTSIDE ENDS OF THE TRANSITION CURBS. THE JOINTS SHALL EXTEND ACROSS THE SIDEWALK, CURB, AND GUTTER.
  - WEAKENED-PLANE JOINTS 1-1/2" DEEP SHALL BE PLACED IN THE TOP SLAB AT THE ENDS OF THE BASIN AND AT 10' INTERVALS ALONG THE LENGTH OF THE BASIN. THE JOINTS SHALL EXTEND ACROSS THE SIDEWALK, CURB, AND GUTTER.
  - THE GUTTER APRON SHALL BE SLOPED TO DAYLIGHT AT STREET GRADE 4" MIN FROM THE FLOWLINE FOR THE ENTIRE LENGTH SHOWN.



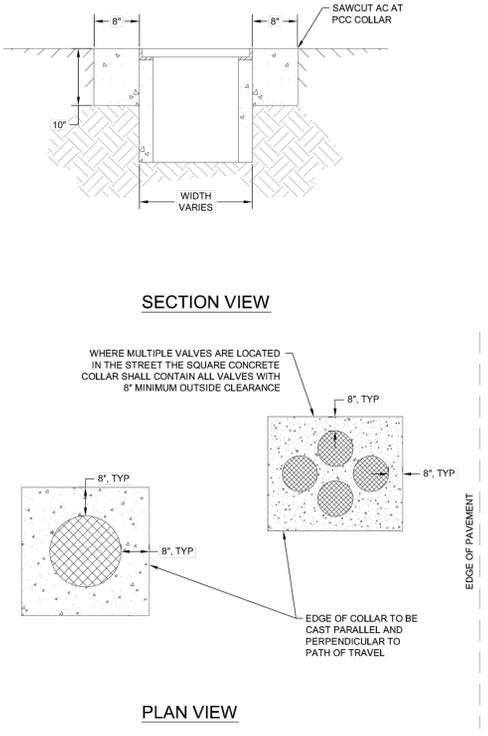
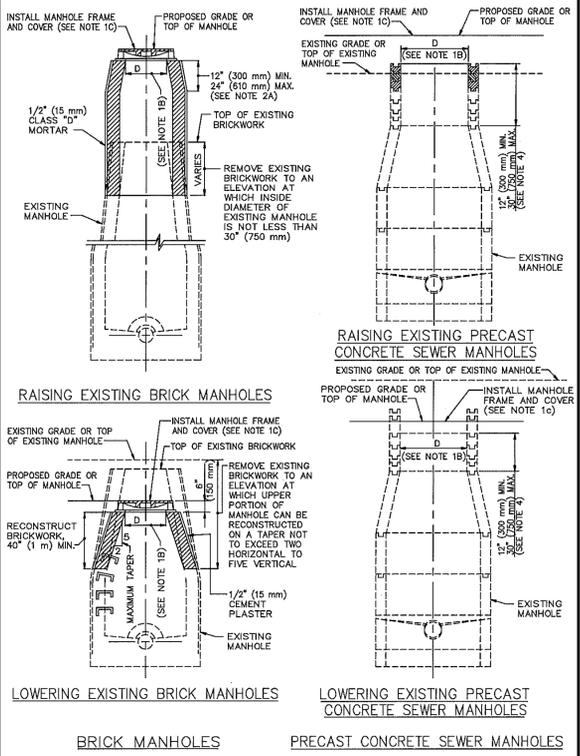
- (REFER TO 1-010 FOR ADDITIONAL NOTES)
- CONCRETE FOR SIDEWALKS AND CURB RAMPS SHALL BE CALTRANS CLASS 3 OR BETTER WITH 25% FLY-ASH IN THE MIX DESIGN. WHEN CONCRETE IS ALSO BEING USED FOR DRIVEWAYS AND GUTTERS, IT SHALL BE CLASS 2 OR BETTER.
  - THICKNESS OF SIDEWALKS SHALL BE 4" MINIMUM, AND THE TRANSVERSE SLOPE SHALL BE 2% MAX DRAINING TOWARD THE CURB. MINIMUM WIDTH SHALL BE 4'. REFER TO TABLES IN 5-040.
  - SUBGRADE MATERIAL SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY FOR A 0.50' DEPTH. IN EXPANSIVE SOILS AND SOILS WHICH CANNOT REACH 90% RELATIVE COMPACTION, A 0.35' LAYER OF CALTRANS CLASS 4 BASE OR BETTER SHALL BE PLACED AND COMPACTED TO 90% RELATIVE COMPACTION.
  - ADA COMPATIBLE SLOPES, DETECTABLE WARNING SURFACES, AND GROOVED BORDERS AT GRADE BREAKS SHALL BE PROVIDED WHERE REQUIRED BY ALL CURRENT REGULATIONS.
  - EXPANSION JOINTS SHALL BE MADE WITH 1/2" EXPANSION PAPER AND PLACED AT THE BEGINNING AND END OF EACH CURB RETURN, ON EACH SIDE OF DRAINAGE STRUCTURES SUCH AS DRAIN INLETS, AT UTILITY VAULTS AND POLES, EVERY 200' OF LENGTH, AND AT OTHER PLACES AS DIRECTED BY THE COUNTY ENGINEER.
  - WEAKENED-PLANE JOINTS SHALL BE TOOLED 1-1/2" DEEP ON SIDEWALKS, CURBS AND GUTTERS AT INTERVALS OF NO MORE THAN 10', AND AT BOTH SIDES OF METER BOXES AND PULL BOXES. JOINTS IN ADJACENT CURBS AND SIDEWALKS SHALL BE ALIGNED.
  - SCORELINES SHALL BE TOOLED 1/4" DEEP ON SIDEWALKS MIDWAY BETWEEN WEAKENED-PLANE JOINTS. IN CURB RETURNS, THEY SHALL BE PLACED SO AS TO CONTINUE THE CURB LINE THROUGH THE RAMP.
  - UTILITY BOXES AND VAULTS SHALL NOT BE LOCATED IN SIDEWALKS WHERE POSSIBLE. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE AROUND ANY SIGNS, POLES, OR OTHER OBSTRUCTIONS.

COUNTY OF SANTA BARBARA, CA - DEPARTMENT OF PUBLIC WORKS - TRANSPORTATION  
 5-010 GENERAL SIDEWALK NOTES  
 APPROVED BY: *[Signature]* 4/1/2011  
 DIRECTOR OF PUBLIC WORKS DATE

- NOTES: (REFER TO 5-010 FOR ADDITIONAL NOTES)
- THE WIDTH OF THE SIDEWALKS (NOT INCLUDING THE CURB) SHALL BE AS SHOWN IN TABLE A OR B. SIDEWALKS FRONTING COMMERCIAL DEVELOPMENTS SHALL EXTEND FROM THE BACK OF THE CURB TO 6' FROM THE RIGHT-OF-WAY LINE.
  - TRANSVERSE EXPANSION JOINTS SHOULD CONTINUE THROUGH THE ADJACENT CURB AND GUTTER.
  - WEAKENED-PLANE JOINTS SHALL BE PROVIDED AT INTERVALS OF NOT MORE THAN 10' ON SIDEWALKS AND CURB/GUTTERS. WHERE SIDEWALKS ABUT THE CURB, THE WEAKENED-PLANE JOINT SHALL BE CONTINUOUS THROUGH BOTH.
  - A SCORELINE SHALL BE PLACED MIDWAY BETWEEN WEAKENED-PLANE JOINTS, WHERE THE SIDEWALK WIDTH EXCEEDS 6'. A LONGITUDINAL SCORELINE SHALL BE TOOLED AT THE SIDEWALK CENTERLINE.
  - ADDITIONAL SIDEWALK WIDTH MAY BE NEEDED TO MAINTAIN A MINIMUM OF 4' CLEAR SIDEWALK AROUND EXISTING OBSTRUCTIONS SUCH AS UTILITY POLES.



COUNTY OF SANTA BARBARA, CA - DEPARTMENT OF PUBLIC WORKS - TRANSPORTATION  
 5-040 SIDEWALK DETAILS  
 APPROVED BY: *[Signature]* 4/1/2011  
 DIRECTOR OF PUBLIC WORKS DATE



10 UTILITY VALVE CONCRETE COLLAR  
 SCALE NTS

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION  
 PREPARED BY THE PUBLIC WORKS STANDARD, INC. GRADING COMMITTEE 1984 REV. 1995, 2009  
**SEWER MANHOLE ADJUSTMENT** STANDARD PLAN 205-2  
 USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SHEET 1 OF 3

**RICK ENGINEERING COMPANY**  
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 SAN LUIS OBISPO, CA 93401  
 805.544.0707  
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 San Diego - Denver - Riverside - Orange - Sacramento - Phoenix - Tucson



NO.	REVISION DESCRIPTION	REVISED BY	ACCEPT. BY	DATE
△	-	-	-	-

REGISTERED PROFESSIONAL ENGINEER  
 PUBLIC WORKS  
 No. 6422  
 STATE OF CALIFORNIA  
*Thomas E. White*  
 PROJECT ENGINEER

**WARD DRIVE CLASS II BIKE LANE PROJECT**  
 DETAILS - WARD DRIVE  
 CITY OF GOLETA  
 DEPARTMENT OF PUBLIC WORKS  
 SCALE: N.T.S.  
 DATE: 12/21/2016  
 DRAWN BY: KCS  
 CHECKED BY: TEM  
 JOB NO: 17775  
 REVIEWED FOR COMPLIANCE BY:  
 SIGNATURE DATE  
 SIGNATURE DATE  
 SHEET NO. 12  
 OF 13 SHEETS  
 DRAWING NO.

