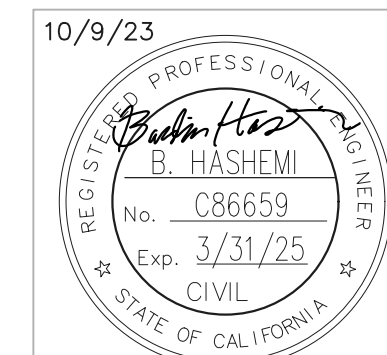




FINAL SUBMITTAL
SEPTEMBER 2023

BOARD OF DIRECTORS
CHRISTY GUERIN - President
MATTHEW R. HAHN - Vice President
NEAL MEYERS - Treasurer
LAWRENCE A. WATT - Secretary
MARCO SAN ANTONIO - Director

DATE _____



UNIT A - RANCHO SANTA FE ROAD POTABLE WATER
PIPELINE REPLACEMENT

**SANTA FE ROAD
LINE REPLACEMENT
COVER SHEET**

SHEET	DRAWING
1 OF 9	G-1



PARSONS®

OLIVENHAIN
Municipal Water District
1966 Olivenhain Road
San Diego, CA 92124 (760) 579-1000

5252 B STREET
SAN DIEGO, CA 92101
PH (619) 515-5100
FAX (619) 515-5101

MARK	DATE	BY	REVISIONS
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GENERAL NOTES

1. APPLICABLE LAWS:
CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE GOVERNMENTAL AND LOCAL LAWS, REGULATIONS, AND ORDINANCES WITH REGARD TO TRAFFIC SAFETY, WORK HOURS, OPERATING HOURS, NOISE AND AIR POLLUTION, AND SANITARY CONDITIONS.
2. DIMENSIONS AND ELEVATIONS:
LOCATION, DIMENSION, AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK OF THIS CONTRACT SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK OR PROCUREMENT. ALL DISCREPANCIES SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE WITHIN 48HOURS.
3. SAFETY:
A. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT IS NOT LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE DISTRICT AND THE ENGINEERING HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THIS WORK, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT OR THE ENGINEER.
B. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF LOCAL, CITY, STATE, AND FEDERAL REGULATIONS CONCERNING CONFINED SPACE ENTRY.
4. JOB-SITE CONDITIONS:
A. UPON COMPLETION OF EACH DAY'S WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE WORK AREA SECURE AND FREE OF HAZARDS. THE CONTRACTOR SHALL PROVIDE NECESSARY TEMPORARY SIGNS, WARNING DEVICES, AND BARRICADES. TEMPORARY ACCESS SHALL BE PROVIDED TO ALL ADJACENT ACTIVITIES DURING NON-CONSTRUCTION HOURS.
B. THE EXISTING FACILITIES MUST REMAIN IN OPERATION FOR THE DURATION OF THE WORK. THE CONTRACTOR SHALL COORDINATE ALL ON-SITE ACTIVITIES WITH THE DISTRICT'S OPERATIONS STAFF. ACCESS SHALL BE PROVIDED FOR OPERATIONS AND MAINTENANCE PURPOSES. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 01043 FOR CONSTRUCTION SEQUENCING AND MAINTENANCE OF OPERATION.
C. THE CONTRACTOR SHALL PROTECT ALL EXPOSED AREAS OF THE SITE DURING THE CONSTRUCTION PERIOD AGAINST DAMAGE, AND ANY AND ALL SITE DAMAGE FROM THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE DISTRICT.
D. CONTRACTOR SHALL PROVIDE MINIMUM TWO WEEKS NOTICE TO THE OWNERS PROJECT MANAGER FOR ANY TIE-INS OR SHUT-DOWNS REQUIRED FOR EXECUTION OF WORK.
E. CONTRACTOR SHALL NOT BLOCK OR IMPEDE ACCESS.
F. ELEVATIONS SHOWN THROUGHOUT DRAWINGS MATCH RECORD DRAWING INFORMATION. ACTUAL ELEVATIONS AND DIMENSIONS SHALL BE CONFIRMED AS NECESSARY BY THE CONTRACTOR.
5. RECORD DRAWINGS:
A. THE CONTRACTOR SHALL MAINTAIN CURRENT BLACKLINE DRAWINGS DURING CONSTRUCTION NEATLY MARKED IN RED INK TO REFLECT THE RECORD CONDITIONS. CONTRACTOR SHALL MAKE UPDATES TO THE RECORD DRAWINGS ON A DAILY BASIS. RECORD DOCUMENTS SHALL BE MAINTAINED ON SITE AT ALL TIMES.
B. RECORD DRAWINGS SHALL INCLUDE ANY DEVIATION FROM PLANS INCLUDING PIPELINE LINE AND GRADE AND SUB-GRADE UTILITY LOCATIONS AND SIZE.
C. CURRENT RECORD DRAWINGS SHALL BE A CONDITION OF MONTHLY PROGRESS PAYMENT. CONTRACTOR SHALL REVIEW RECORD DRAWINGS WITH THE DISTRICT PRIOR TO SUBMITTING PROGRESS PAYMENT REQUEST.
D. RECORD DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL PRIOR TO RELEASE OF RETENTION.

ABBREVIATIONS

AML	APPROVED MATERIALS LIST	MIN	MINIMUM
CMLC	CEMENT MORTAR LINED AND COATED	MJ	MECHANICAL JOINT
COMB	COMBINATION	N/A	NOT APPLICABLE
CONC	CONCRETE	OMWD	OLIVENHAIN MUNICIPAL WATER DISTRICT
DI	DUCTILE IRON	SDRSD	SAN DIEGO REGIONAL STANDARD
DWG	DRAWING		DRAWINGS
ELEC	ELECTRIC	STD	STANDARD
ENC	ENCASEMENT	PROP	PROPOSED
EXIST	EXISTING	PVC	POLYVINYL CHLORIDE
FT	FEET	R/W	RIGHT-OF-WAY
IE	INVERT	RCP	REINFORCED CONCRETE PIPE
IN	INCHES	RW	RECLAIMED WATER
LT	LEFT	STA	STATION
MAX	MAXIMUM		

REFERENCE DRAWINGS

DRAWING NUMBER	DRAWING TITLE
A-1.1	2-INCH BLOW-OFF ASSEMBLY WORKING PRESSURE 0-300 PSI (NON-TRAFFIC)
A-2.1	2-INCH MANUAL AIR RELEASE ASSEMBLY WORKING PRESSURE 0-300 PSI (NON-TRAFFIC)
C-1.1	FIRE HYDRANT ASSEMBLY WORKING PRESSURE 0-150 PSI
D-3.3	THRUST BLOCK FOR TEES OR CAPS WORKING PRESSURE 0-150 PSI
D-3.5	THRUST BLOCK FOR PIPE BENDS WORKING PRESSURE 0-150 PSI
G-1	2-WIRE CATHODIC TEST STATION (CTS)
G-2	AT-GRADE TEST BOX
G-3	POST-MOUNTED TEST BOX
G-5	PIPE JOINT BONDING
G-6	MECHANICAL JOINT BONDING

CITY OF CARLSBAD	DRAWING TITLE
DRAWING NUMBER	
W-2	TYPICAL TRENCH SECTION
GS-25	TRENCH RESURFACING ASPHALT CONCRETE PAVEMENT FOR TRENCH WIDTHS LESS THAN 25'
GS-28	NOTES FOR ASPHALT CONCRETE TRENCH RESURFACING

DRAWING NUMBER	DRAWING TITLE
G-2	CURB AND GUTTER - COMBINED
G-7	SIDEWALK - TYPICAL SECTIONS
G-12	CROSS GUTTER

OMWD RECORD DRAWINGS REFERENCES

DWG 380-1K
DWG 3897-1
DWG 331-2

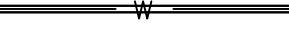




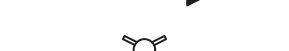










GENERAL POTABLE WATER SYSTEM NOTES

- POTABLE WATER MATERIALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND MATERIALS AS SPECIFIED IN THE MOST RECENT EDITION OF THE OLIVENHAIN MUNICIPAL WATER DISTRICT (DISTRICT) STANDARD SPECIFICATIONS AND DRAWINGS FOR THE CONSTRUCTION OF WATER MAINS AND FACILITIES, INCLUDING ALL AMENDMENTS ADOPTED PRIOR TO THE DISTRICT APPROVAL DATE ON THESE PLANS. CONTRACTOR SHALL HAVE A COPY OF THE STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
2. THE SUBMISSION AND REVIEW OF ALL SUBMITTALS (SHOP DRAWINGS, ONE ELECTRONIC SET) AS REQUIRED BY THE STANDARD SPECIFICATIONS ARE TO BE ACCOMPLISHED PRIOR TO THE PRE-CONSTRUCTION MEETING WITH THE DISTRICT'S INSPECTOR.
3. UNLESS OTHERWISE NOTED, CONNECTIONS TO EXISTING MAINS SHALL BE MADE DRY. THE TIME AND DURATION OF ANY SHUTDOWNS OF EXISTING MAINS SHALL BE SUBJECT TO APPROVAL BY THE DISTRICT. DISTRICT SHALL BE NOTIFIED TWO WEEKS MINIMUM IN ADVANCE OF ANY SHUTDOWN.
4. CONTRACTOR SHALL REVIEW ALL PROPOSED TRENCH WORK WITH CAL/OSHA. A COPY OF EXEMPTION LETTER OR TRENCHING PERMIT, IF REQUIRED, SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL COORDINATE WITH DISTRICT ALL ARRANGEMENTS FOR SHUTDOWN OF PIPELINES PRIOR TO SHUTDOWNS. NO SHUTDOWNS WILL BE SCHEDULED ON A MONDAY OR FRIDAY.
6. NO WORK MAY BEGIN OR PROCEED WITHOUT DIRECTION OF DISTRICT'S INSPECTOR. CONTRACTOR SHALL NOTIFY THE DISTRICT INSPECTIONS DEPARTMENT 48 HOURS PRIOR TO THE BEGINNING OF WORK TO ARRANGE FOR INSPECTION OF THE PROJECT.
7. THE CONTRACTOR MUST CALL "DIG ALERT OF SOUTHERN CALIFORNIA" TO HAVE UNDERGROUND SERVICE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THIS CALL WILL BE MADE AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY WORK BEING PERFORMED IN PUBLIC RIGHT-OF-WAY. (DIG ALERT PHONE: 800-227-2600)
8. ALL EXISTING FACILITIES WHICH MAY AFFECT PROJECT CONSTRUCTION, I.E., LINE CROSSINGS, LINE PARALLELING, OR PROPOSED CONNECTIONS SHALL BE FIELD VERIFIED BEFORE ANY CONSTRUCTION BEGINS.
9. THE CONTRACTOR SHALL FURNISH AND INSTALL PER THE STANDARD SPECIFICATIONS THE APPROPRIATE BURIED UTILITY WARNING AND IDENTIFICATION TAPE ABOVE ALL PUBLIC WATER LINES INCLUDING WATER LATERALS LOCATED IN PUBLIC RIGHT-OF-WAY.
10. WHERE ELEVATIONS AND GRADES ARE NOT SHOWN ON THE WATER MAIN PROFILE, TOP OF PIPE PROFILE IS 48-INCHES BELOW CENTERLINE OF FINISH GRADE OF STREET.
11. ALL DEFLECTIONS (HORIZONTAL AND VERTICAL) SHALL BE MADE BY USE OF JOINT COUPLINGS WITH 4" MAXIMUM DEFLECTION PER COUPLING (2" PER JOINT). NO BENDING (CURVING) OF PIPE SHALL BE PERMITTED.
12. MANUAL AIR RELEASES SHALL BE INSTALLED AT ALL HIGH POINTS AND BLOW-OFFS AT ALL LOW POINTS IN THE WATER MAIN PROFILE. PLACE MANUAL AIR RELEASES AND BLOW-OFFS WITHIN METER BOX AND LOCATED BEHIND CURB UNLESS OTHERWISE APPROVED BY DISTRICT'S REPRESENTATIVE. FIRE HYDRANTS MAY BE USED IN LIEU OF A MANUAL AIR RELEASE OR BLOW-OFF WHEN LOCATED AT OR NEAR HIGH OR LOW POINTS, AS APPROVED BY THE DISTRICT'S REPRESENTATIVE.
13. INSTALL A MINIMUM 1-INCH WATER SERVICE TO EACH LOT. METER TO BE LOCATED 5- FEET FROM A SIDE LOT LINE. A 3/4-INCH HIGH LETTER "W" SHALL BE CHISELED IN TOP OF EXISTING CURB OR IMPRINTED IN NEW CURB AT ALL WATER SERVICE CROSSINGS.
14. METER BOXES SHALL NOT BE PLACED WITHIN DRIVEWAYS OR SIDEWALKS WITHOUT THE DISTRICT'S PRIOR WRITTEN CONSENT.
15. ALL WATER SERVICES FOR IRRIGATION, MULTIPLE RESIDENTIAL COMPLEXES, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL HAVE APPROVED BACKFLOW PREVENTION DEVICE ON CUSTOMER'S SIDE OF WATER METER.
16. CONTRACTOR SHALL TIE OFF ALL VALVE LOCATIONS AND PROVIDE WRITTEN DIMENSIONS TO INSPECTOR IMMEDIATELY UPON INSTALLATION OF VALVES.
17. LINE VALVES, WHERE REQUIRED AT STREET INTERSECTIONS SHALL BE LOCATED AT THE TEE WHENEVER POSSIBLE.
18. FIRE HYDRANTS, AS APPROVED BY THE APPROPRIATE FIRE DISTRICT AND MEETING THE DISTRICT'S STANDARD SPECIFICATIONS, ARE TO BE INSTALLED AT LOCATIONS SPECIFIED BY THE FIRE DISTRICT.
19. ALL DESIGN CHANGES TO THE WATER SYSTEM SHALL BE APPROVED BY THE DISTRICT REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION AND ACCEPTANCE OF THE CHANGE.
20. THE WATER SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE PROCEDURES IN THE OMWD STANDARD SPECIFICATIONS. THE CLASS OF PIPE SHALL BE USED AS THE DESIGNATED WORKING PRESSURE FOR TESTING ALL PIPE, VALVES (CLOSED) AND APPURTENANCES.
21. PIPELINE AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 15141 OF THE OMWD STANDARD SPECIFICATIONS PRIOR TO TIE-IN OR CONNECTION TO EXISTING SYSTEM FACILITIES. BACTERIOLOGIC QUALITY TEST RESULT SHALL CONFORM TO THE CRITERIA SPECIFIED IN THAT SPECIFICATION.
22. CONTRACTOR RECORD DRAWINGS MUST BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF WORK. THE PLANS MUST PROVIDE POST CONSTRUCTION VERIFICATION OF THE LOCATION AND ELEVATION OF PIPES AND APPURTENANCES.
23. CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF TWO (2) YEARS AFTER THE DATE OF ACCEPTANCE FOR THE PROJECT. CONTRACTOR SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE ONE-YEAR PERIOD FROM THE DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE DISTRICT, ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLECT EXCEPTED.
24. ALL IRRIGATION METERS SHALL BE SERVED WITH RECYCLED WATER UNLESS PREVIOUSLY APPROVED IN WRITING BY THE DISTRICT.
25. ALL BURIED FITTINGS AND VALVES SHALL BE WAX TAPE WRAPPED IN ACCORDANCE WITH OMWD STANDARD SPECIFICATIONS.

SHEET INDEX

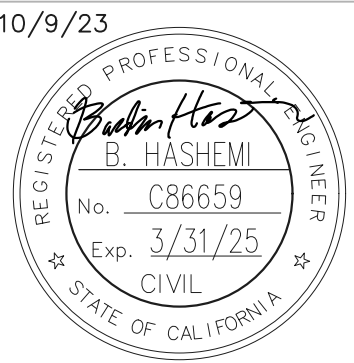
SHEET	DWG	TITLE
1	G-1	COVER SHEET
2	G-2	GENERAL NOTES, DRAWING LIST, SYMBOL LEGEND, AND ABBREVIATIONS
3	G-3	SHEET INDEX
4	C-1	WATER REPLACEMENT STA 1+00.00 TO 9+00.00
5	C-2	WATER REPLACEMENT STA 9+00.00 TO 17+05.60
6	C-3	LATERALS PROFILES
7	C-4	DETAILS 1
8	C-5	DETAILS 2
9	C-6	PHASING PLAN
TC-1	TC-1	TRAFFIC CONTROL COVER SHEET
TC-2	TC-2	RANCHO SANTA FE RD. - OLIVENHAIN RD. TO LAS OLAS CT. - PHASE 1
TC-3	TC-3	RANCHO SANTA FE RD. - LAS OLAS CT. TO CALLE ACERVO - PHASE 2
TC-4	TC-4	RANCHO SANTA FE RD. - LAS OLAS CT. TO CALLE ACERVO - PHASE 2
TC-5	TC-5	RANCHO SANTA FE RD. - LAS OLAS CT. TO AVENIDA LA CIMA - PHASE 3
TC-6	TC-6	RANCHO SANTA FE RD. AND AVENIDA LA CIMA INTERSECTION - PHASE 1
TC-7	TC-7	RANCHO SANTA FE RD. AND AVENIDA LA CIMA INTERSECTION - PHASE 2
TC-8	TC-8	RANCHO SANTA FE ROAD - LATERAL TYPICAL DETAIL

LEGEND

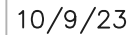
	PROP PVC WATER
	GATE VALVE
	2" BLOWOFF VALVE
	MANUAL AIR RELEASE VALVE
	COMB AIR VACUUM AIR RELEASE VALVE
	PROPOSED FIRE HYDRANT
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING STORM DRAIN MANHOLE
	EXISTING STORM DRAIN
	EXISTING SEWER
	EXISTING RECLAIMED WATER
	EXISTING POTABLE WATER
	EXISTING DRAIN
	EXISTING BURIED ELECTRIC
	RIGHT-OF-WAY

CONSTRUCTION NOTES:

- (1) INSTALL 12" C900 PVC PIPE PER OMWD STANDARD SPECIFICATION SECTION 15292, REMOVE EXISTING 12" CML&C STEEL AS NEEDED TO INSTALL THE NEW PIPELINE. FILL REMAINING WITH SLURRY AND ABANDON IN PLACE.
- (2) TIE INTO EXISTING 12" 45° FLANGED DI BEND WITH 12" FLANGED BY MJ GATE VALVE PER AML. SEE DETAIL 1, SHEET C-4.
- (3) PROPOSED 12"x8" FLANGED TEE WITH (2) 12" FLANGED BY MJ GATE VALVE PER AML AND (1) 8" FLANGED BY MJ GATE VALVE WITH THRUST BLOCK PER OMWD STD DWG D-3.3. SEE DETAIL 2, SHEET C-4.
- (4) PROPOSED 12"x8" FLANGED TEE WITH (2) 12" FLANGED BY MJ GATE VALVE AND (1) 8" FLANGED GATE. SEE DETAIL 3, SHEET C-4.
- (5) CONNECT PROPOSED (1) 12" FLANGED GATE VALVE TO EXISTING 12"x12" CROSS. SEE DETAIL 4, SHEET C-4.
- (6) PROPOSED 8" 22.5° DI BEND WITH THRUST BLOCK PER OMWD STD DWG D-3.5.
- (7) TIE INTO EXISTING 8" PVC WITH 8" CLOSURE/REPAIR COUPLING PER THE AML. SEE DETAIL 2, SHEET C-4.
- (8) TIE INTO EXISTING 8" PVC WITH CLOSURE/REPAIR COUPLING PER THE AML. SEE DETAIL 3, SHEET C-4.
- (9) PROPOSED 12"x6" FIRE HYDRANT ASSEMBLY PER OMWD STD DWG C-1.1. REMOVE EXISTING FIRE HYDRANT AND 6" PIPE.
- (10) EXISTING RETAINING WALL BEHIND FIRE HYDRANT TO BE PROTECTED IN PLACE.
- (11) PROPOSED 12" 45° DI BEND PER OMWD STANDARD SPECIFICATION SECTION 15068 WITH THRUST BLOCK PER OMWD STD D-3.5.
- (12) PROPOSED 8" C900 PVC WATER PER OMWD STANDARD SPECIFICATION SECTION 15292, SEE PROFILE A, SHEET C-3.
- (13) PROPOSED 8" C900 PVC WATER PER OMWD STANDARD SPECIFICATIONS SECTION 15292, SEE PROFILE B, SHEET C-3.
- (14) PROPOSED 8" 45° DI BEND PER OMWD STANDARD SPECIFICATION SECTION 15068 WITH THRUST BLOCK PER OMWD STD D-3.5.
- (15) PROPOSED 2" BLOWOFF VALVE PER OMWD STD DWG A-1.1.
- (16) ABANDON SLURRY AND FILL EXISTING 12"x8" TEE AND 8" PVC PIPE, SEE DETAIL 3, SHEET C-4.
- (17) PROPOSED 2" MANUAL AIR RELEASE PER OMWD STD DWG A-2.1.
- (18) TRENCH RESURFACING, ASPHALT RESURFACING, MEDIAN REPLACEMENT, CURB AND GUTTER, SIDEWALK, AND CROSS-GUTTER REPLACEMENT PER APPLICABLE AGENCY STANDARD DRAWINGS, SEE SHEETS C-4 AND C-5.
- (19) 12" MJ GATE VALVE.
- (20) TWO NO. 2 AWG HMWPE STRUCTURE NEGATIVE LEADS SHALL BE INSTALLED ON THE EXISTING STEEL CROSS AND TRENCHED TO THE EXISTING RECTIFIER LOCATED ON AVENIDA LA POSTA.



UNIT A - RANCHO SANTA FE ROAD POTABLE WATER PIPELINE REPLACEMENT		GENERAL NOTES, DRAWINGS LIST, SYMBOL LEGEND, AND ABBREVIATIONS	
SHEET	DRAWING		
2 OF 9	G-2		



SHEET
3 OF 5

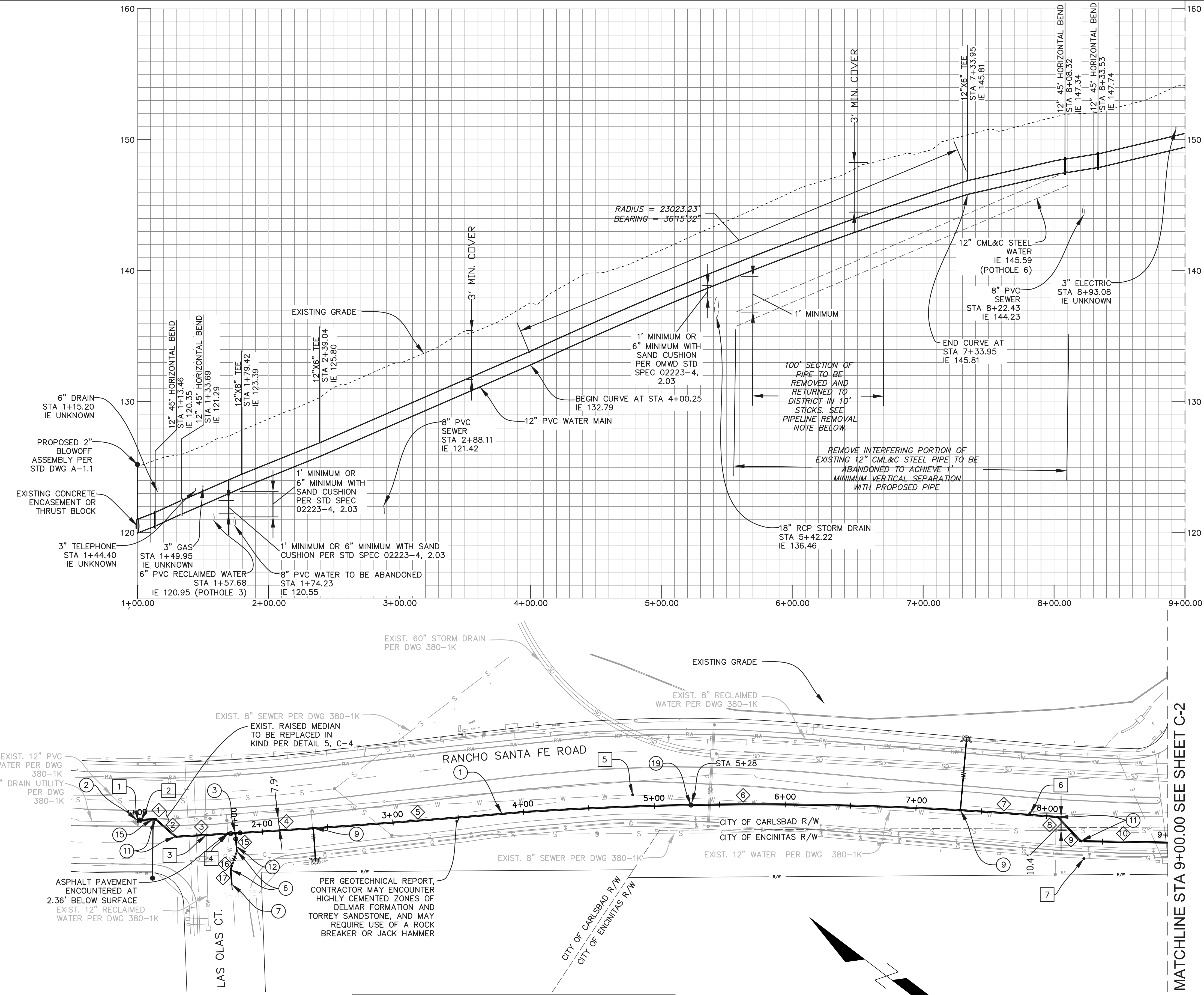
DRAWN

G—

OLIVENHAIN

Municipal Water District
1966 Olivenhain Road
Encinitas CA 92024 (760)753-6466

	DATE	DRAWN BY	CHECKED BY	REVISIONS
DESIGN				
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NOTE:
FIELD VERIFY ALL CONNECTION POINT DEPTHS, SLOPES, AND O.D. PRIOR TO ORDERING MATERIALS.

NOTE:
SUBSURFACE ASPHALT ENCOUNTERED DURING POTHOLING, SEE POTHOLE TABLE. CONTRACTOR TO DEMO ANY EXISTING SUBSURFACE ASPHALT ENCOUNTERED AS PART OF PIPELINE INSTALLATION, AS REQUIRED.

CONSTRUCTION NOTES:

1. INSTALL 12" C900 PVC PIPE PER OMWD STANDARD SPECIFICATION SECTION 15292. REMOVE EXISTING 12" CML&C STEEL AS NEEDED TO INSTALL THE NEW PIPELINE. FILL REMAINING WITH SLURRY AND ABANDON IN PLACE.
2. TIE INTO EXISTING 12" 45° FLANGED DI BEND WITH 12" FLANGED BY MJ GATE VALVE AND PER AML. SEE DETAIL 1, SHEET C-4.
3. PROPOSED 12"x8" FLANGED TEE WITH (2) 12" FLANGED BY MJ GATE VALVE AND (1) 8" FLANGED BY MJ GATE VALVE PER AML WITH THRUST BLOCK PER OMWD STD DWG D-3.3. SEE DETAIL 2, SHEET C-4.
4. NOT USED ON THIS SHEET
5. NOT USED ON THIS SHEET
6. PROPOSED 8" 22.5° DI BEND WITH THRUST BLOCK PER OMWD STD DWG D-3.5.
7. TIE INTO EXISTING 8" PVC WITH 8" CLOSURE/REPAIR COUPLING PER THE AML. SEE DETAIL 2, SHEET C-4.
8. NOT USED ON THIS SHEET
9. PROPOSED 12"x6" FIRE HYDRANT ASSEMBLY PER OMWD STD DWG C-1.1. REMOVE EXISTING FIRE HYDRANT AND 6" PIPE.
10. NOT USED ON THIS SHEET
11. PROPOSED 12" 45° DI BEND PER OMWD STANDARD SPECIFICATION SECTION 15068 WITH THRUST BLOCK PER OMWD STD D-3.5.
12. PROPOSED 8" C900 PVC WATER PER OMWD STANDARD SPECIFICATION SECTION 15292, SEE PROFILE A, SHEET C-3.
13. NOT USED ON THIS SHEET
14. NOT USED ON THIS SHEET
15. PROPOSED 2" BLOWOFF VALVE PER OMWD STD DWG A-1.1.
16. NOT USED ON THIS SHEET
17. NOT USED ON THIS SHEET
18. TRENCH RESURFACING, ASPHALT RESURFACING, MEDIAN REPLACEMENT, CURB AND GUTTER, SIDEWALK, AND CROSS-GUTTER REPLACEMENT PER APPLICABLE AGENCY STANDARD DRAWINGS, SEE SHEETS C-4 AND C-5.
19. 12" MJ GATE VALVE
20. NOT USED ON THIS SHEET

PIPELINE REMOVAL NOTE: FOR PORTIONS OF EXISTING 12" STEEL PIPELINE REMOVED, CONTRACTOR TO TAG/LABEL PIPE STICKS WITH STATIONING BEGINNING AT STA 5+70 SO DISTRICT CAN IDENTIFY WHERE IT WAS REMOVED FROM.

WATER DATA

NUMBER	DELTA OR BEARING	RADIUS (FT)	LENGTH (FT)	REMARKS
1	S39°41'48"E	---	13.46	12" PVC - C900
2	S05°17'48"W	---	20.23	12" PVC - C900
3	00°16'02"	9803.20	45.73	12" PVC - C900
4	00°12'23"	16547.90	59.62	12" PVC - C900
5	01°04'57"	8532.37	161.21	12" PVC - C900
6	07°01'44"	2720.20	333.70	12" PVC - C900
7	01°04'24"	3589.71	67.24	12" PVC - C900
8	S32°21'49"E	---	7.14	12" PVC - C900
9	S10°44'52"W	---	25.21	12" PVC - C900
10	S35°06'40"E	---	90.80	12" PVC - C900
11	S49°33'25"W	---	14.27	8" PVC - C900
12	S72°05'10"W	---	14.97	8" PVC - C900
13	S49°35'05"W	---	10.51	8" PVC - C900

POTHOLE DATA

NUMBER	UTILITY	SIZE (IN)	MATERIAL	TOP DEPTH (FT)
1	THRUST BLOCK	8	CONCRETE	7.54
2	DRAIN	6	PLASTIC	2.50
3	RECLAIMED WATER	6	PVC	5.04
4	WATER	8	UNKNOWN	2.36*
5	WATER	12	CML&C	7.12
6	WATER	12	CML&C	4.80
7	ELEC & CABLE	UNKNOWN	CONC ENC	4.26**

* ENCOUNTERED ASPHALT PAVEMENT AT THIS DEPTH
** (2) UTILITIES IN CONCRETE ENCASEMENT

10/9/23



UNIT A - RANCHO SANTA FE ROAD POTABLE WATER PIPELINE REPLACEMENT

SHEET 4 OF 9

WATER REPLACEMENT STA 1+00.00 TO 9+00.00

DRAWING C-1

MARK DATE BY REVISIONS

NOT FOR CONSTRUCTION



NUMBER	DELTA OR BEARING	RADIUS (FT)	LENGTH (FT)	REMARKS
⑩	S35°06'40"E	---	90.80	12" PVC - C900
⑪	00°15'48"	60789.57	279.49	12" PVC - C900
⑫	03°04'49"	4435.19	238.43	12" PVC - C900
⑬	15°49'28"	601.11	166.02	12" PVC - C900
⑭	00°31'31"	10614.65	97.33	12" PVC - C900

NUMBER	DELTA OR BEARING	RADIUS (FT)	LENGTH (FT)	REMARKS
18	N53°39'01"E	---	91.08	8" PVC - C900
19	N08°17'25"E	---	9.71	8" PVC - C900
20	N54°13'11"E	---	10.27	8" PVC - C900

NUMBER	UTILITY	SIZE (IN)	MATERIAL	TOP DEPTH (FT)
8	RECLAIMED WATER	8	PVC	6.94
9	DRY HOLE	N/A	N/A	11.04
10	ELEC & CABLE	UNKNOWN	ENCASEMENT	5.32*
11	WATER	12	CML&C	6.86

* (2) UTILITIES IN CONCRETE ENCASEMENT

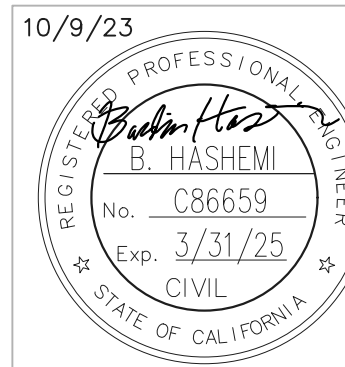
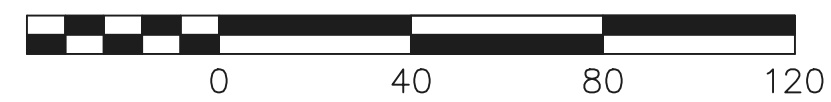
- ① INSTALL 12" C900 PVC PIPE PER OMWD STANDARD SPECIFICATION SECTION 15292. REMOVE EXISTING 12" CML&C STEEL AS NEEDED TO INSTALL THE NEW PIPELINE. FILL REMAINING WITH SLURRY AND ABANDON IN PLACE.
- ② NOT USED ON THIS SHEET
- ③ NOT USED ON THIS SHEET
- ④ PROPOSED 12"x8" FLANGED TEE WITH (2) 12" FLANGED BY MJ GATE VALVE AND (1) 8" FLANGED GATE. SEE DETAIL 3, SHEET C-4.
- ⑤ CONNECT PROPOSED (1) 12" FLANGED GATE VALVE TO EXISTING 12"x12" CROSS. SEE DETAIL 4, SHEET C-4.
- ⑥ NOT USED ON THIS SHEET
- ⑦ NOT USED ON THIS SHEET
- ⑧ TIE INTO EXISTING 8" PVC WITH CLOSURE/REPAIR COUPLING PER THE AML. SEE DETAIL 3, SHEET C-4.
- ⑨ PROPOSED 12"x6" FIRE HYDRANT ASSEMBLY PER OMWD STD DWG C-1.1. REMOVE EXISTING FIRE HYDRANT AND 6" PIPE.
- ⑩ EXISTING RETAINING WALL BEHIND FIRE HYDRANT TO BE PROTECTED IN PLACE.
- ⑪ NOT USED ON THIS SHEET
- ⑫ NOT USED ON THIS SHEET
- ⑬ PROPOSED 8" C900 PVC WATER PER OMWD STANDARD SPECIFICATIONS SECTION 15292, SEE PROFILE B, SHEET C-3.
- ⑭ PROPOSED 8" 45' DI BEND PER OMWD STANDARD SPECIFICATION SECTION 15068 WITH THRUST BLOCK PER OMWD STD D-3.5.
- ⑮ PROPOSED 2" BLOWOFF VALVE PER OMWD STD DWG A-1.1.
- ⑯ ABANDON SLURRY AND FILL EXISTING 12"x8" TEE AND 8" PVC PIPE, SEE DETAIL 3, SHEET C-4.
- ⑰ PROPOSED 2" MANUAL AIR RELEASE PER OMWD STD DWG A-2.1.
- ⑱ TRENCH RESURFACING, ASPHALT RESURFACING, MEDIAN REPLACEMENT, CURB AND GUTTER, SIDEWALK, AND CROSS-GUTTER REPLACEMENT PER APPLICABLE AGENCY STANDARD DRAWINGS, SEE SHEETS C-4 AND C-5.
- ⑲ NOT USED ON THIS SHEET
- ⑳ TWO NO. 2 AWG HMWPE STRUCTURE NEGATIVE LEADS SHALL BE INSTALLED ON THE EXISTING STEEL CROSS AND TRENCHED TO THE EXISTING RECTIFIER LOCATED ON AVENIDA LA POSTA.

NOTE:
NEW 2-WIRE TEST STATION AT THE PVC/STEEL PIPE INTERFACE (AT OR NEAR THE EXISTING CROSS) SHALL BE INSTALLED PER OMWD STD G-1. THE TEST STATION SHALL BE POST MOUNTED PER OMWD STD G-3, OR AS SPECIFIED BY OWNER. A TEST BOX FOR THE 2-WIRE TEST STATION SHALL BE LOCATED NEXT TO THE MANUAL AIR RELEASE AT STA 16+99.07 AT THE SIDE OF THE ROAD (TEST LEADS SHALL BE IN THE SAME TRENCH AS THE AIR RELEASE PIPING)

NOTE:
FIELD VERIFY ALL CONNECTION POINT DEPTHS, SLOPES, AND O.D. PRIOR TO ORDERING MATERIALS.

NOTE:
SUBSURFACE ASPHALT ENCOUNTERED DURING
POTHOLING, SEE POTHOLE TABLE. CONTRACTOR
TO DEMO ANY EXISTING SUBSURFACE ASPHALT
ENCOUNTERED AS PART OF PIPELINE
INSTALLATION, AS REQUIRED.

NOTE:
EXISTING CROSS AND ANY OTHER
NON-WELDED PIPE CONNECTIONS SHALL BE
BONDED PER OMWD STD G-5 AND G-6. A
DISTRICT CORROSION TECHNICIAN OR A
DISTRICT CORROSION REPRESENTATIVE
SHALL BE ON SIGHT FOR INSPECTION
DURING BONDING AND SHALL VERIFY
ELECTRICAL CONTINUITY PRIOR TO
BACKFILLING.



DESIGN

DESIGN



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FAX (619) 515-5101



OLIVENHAIN

Municipal Water District
1966 Olivenhain Road
itas.CA 92024 (760)753-

1900 CLEVELAND ROAD
ENCINITAS, CA 92024 (760)753-6466

UNIT A - RANCHO SANTA FE ROAD POTABLE WATER
PIPELINE REPLACEMENT

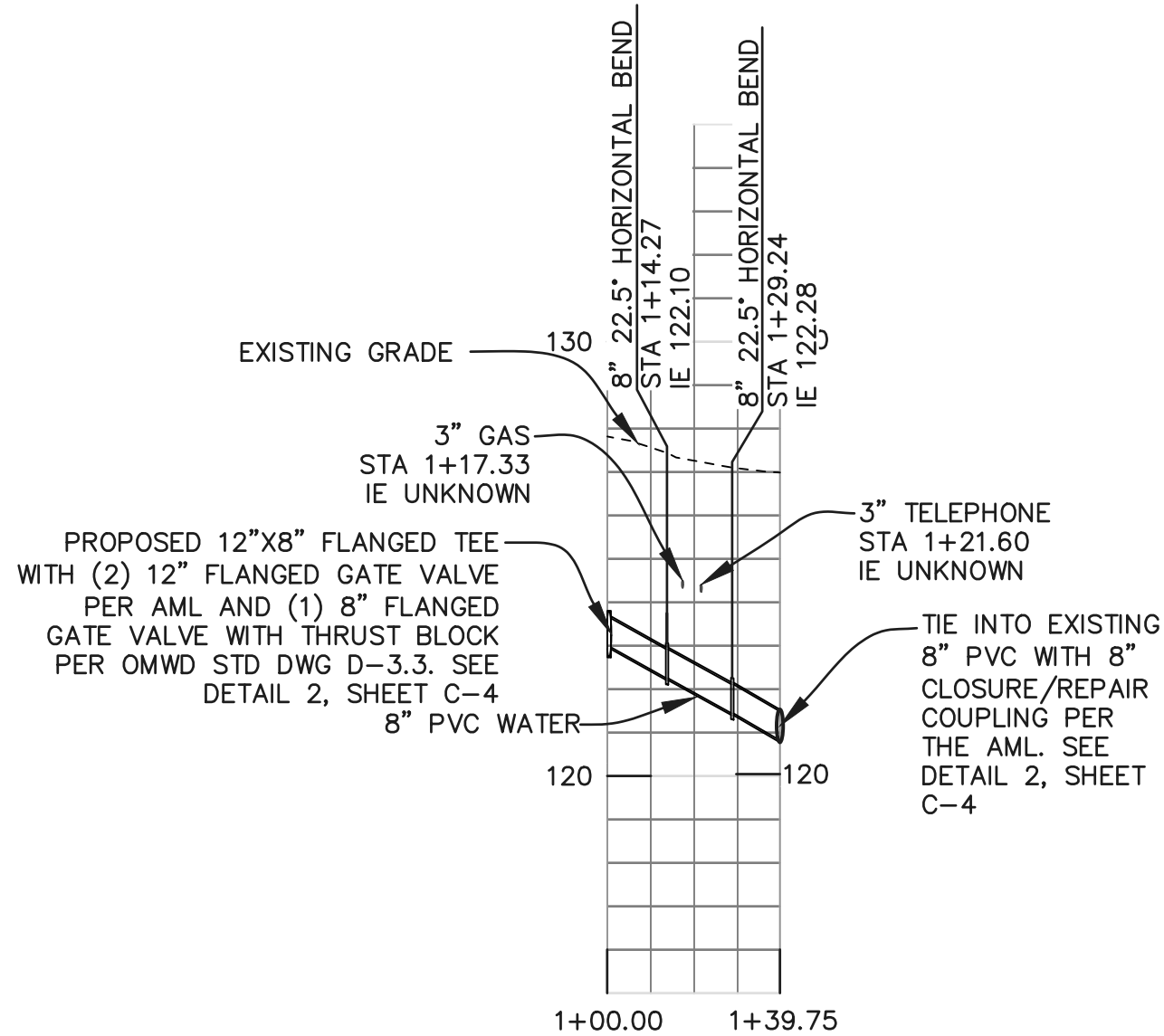
WATER REPLACEMENT STA 9+00.00 TO 17+05.60

SHEET
5 OF

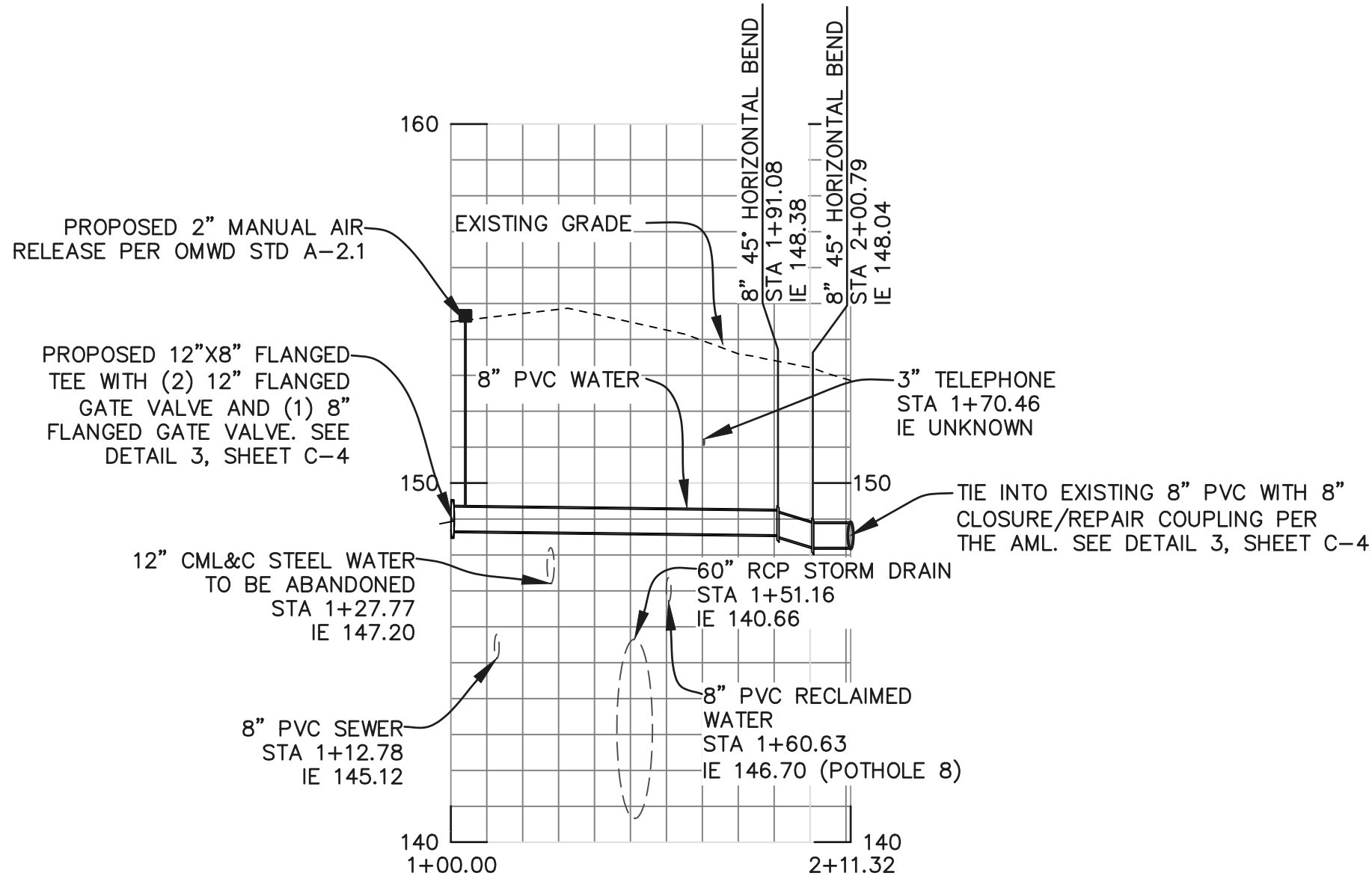
DRAWING
C-2

MARK	DATE	BY	REVISIONS
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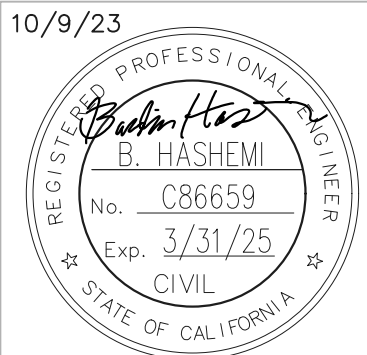
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PROFILE A:
CONNECTION AT LAS OLAS CT. = STA 1+79.42 ON MAIN



PROFILE B:
CONNECTION AT AVENIDA LA CIMA = STA 9+24.33 ON MAIN



**PARSONS**

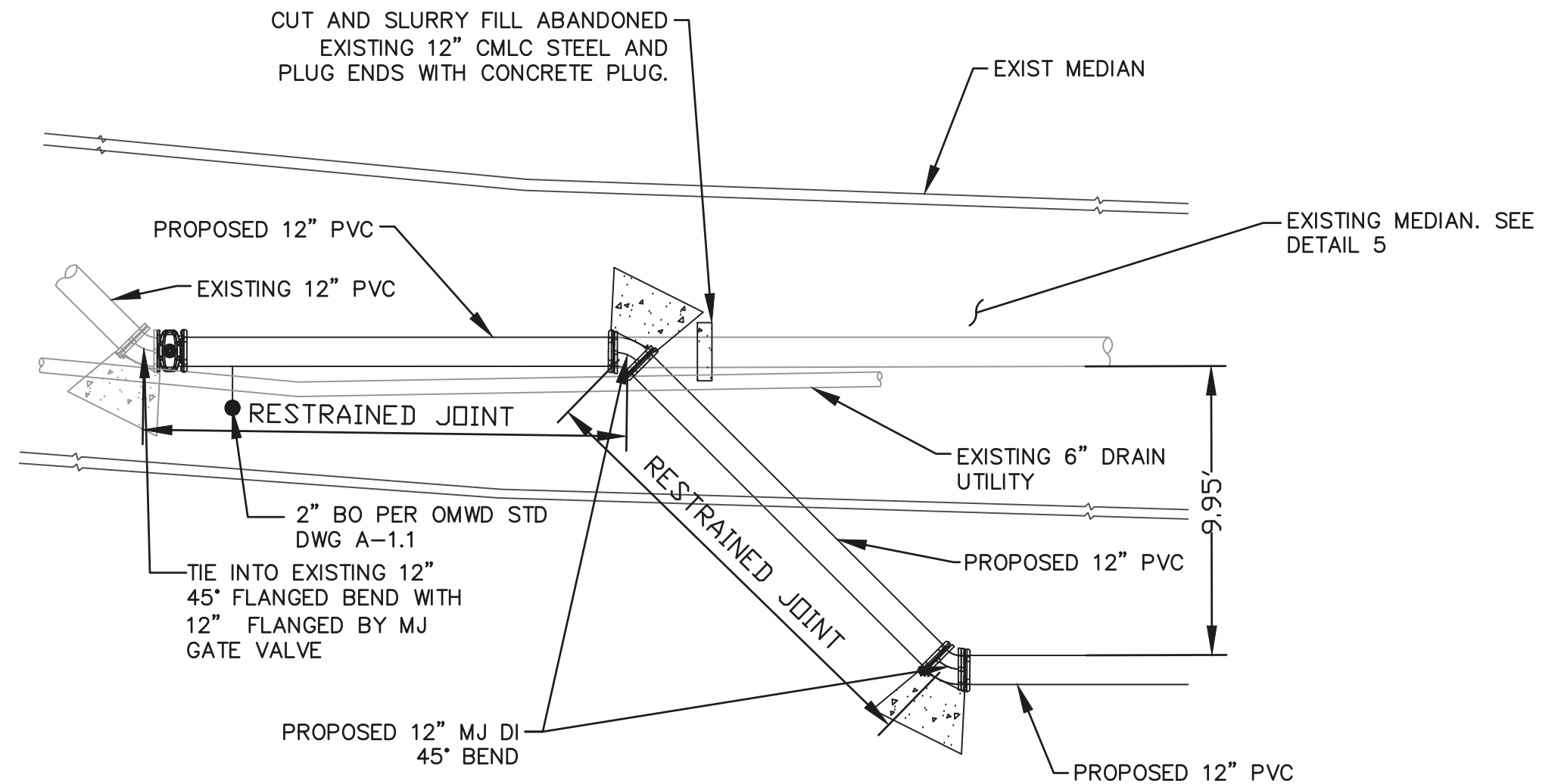
**OLIVENHAIN**
Municipal Water District
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Encinitas, CA 92024 (760)753-6466

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UNIT A - RANCHO SANTA FE ROAD POTABLE WATER PIPELINE REPLACEMENT	
LATERALS PROFILES	
SHEET 6 OF 9	DRAWING C-3

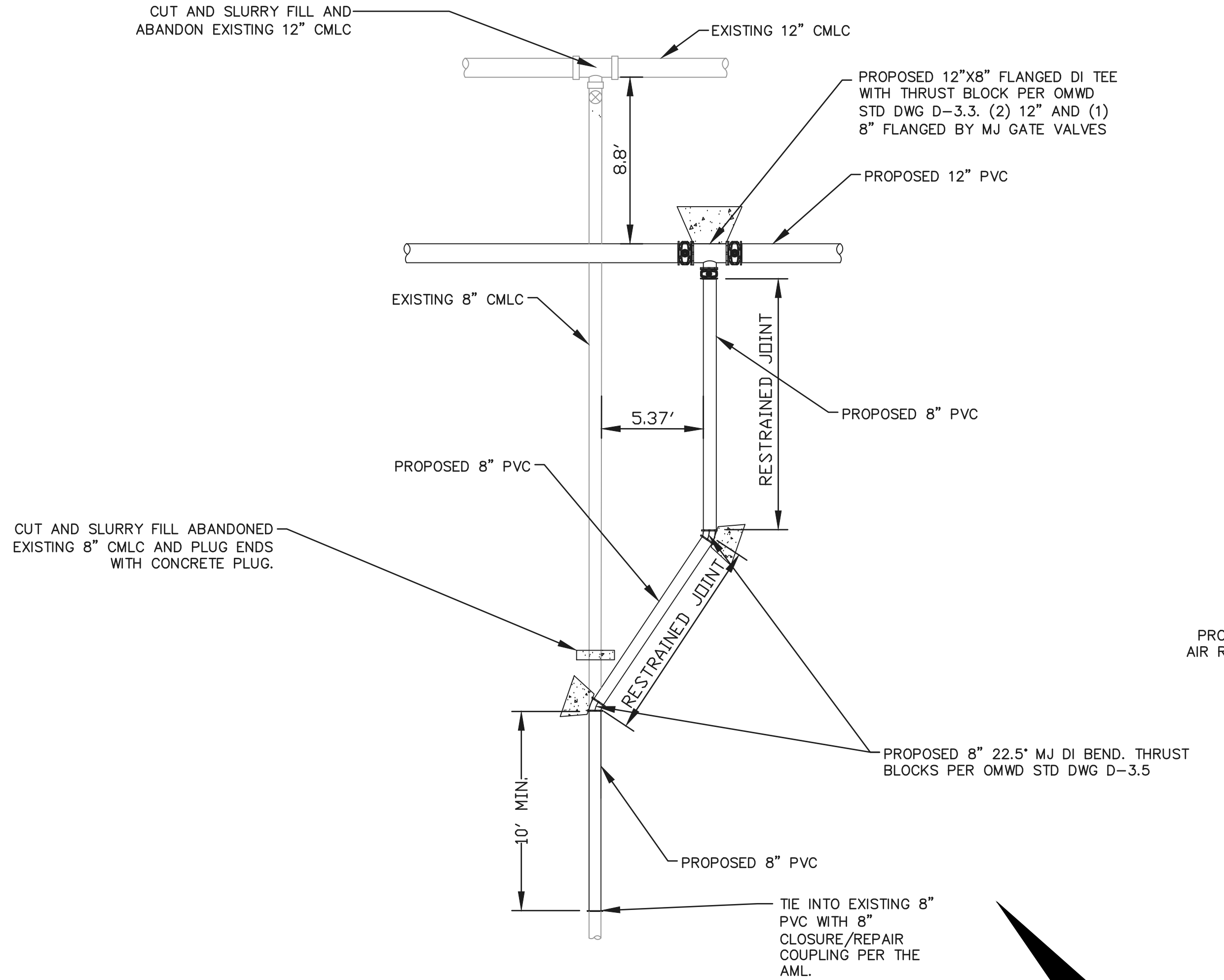
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CONNECTION AT STA 01+00.00

SCALE: 1"=5'

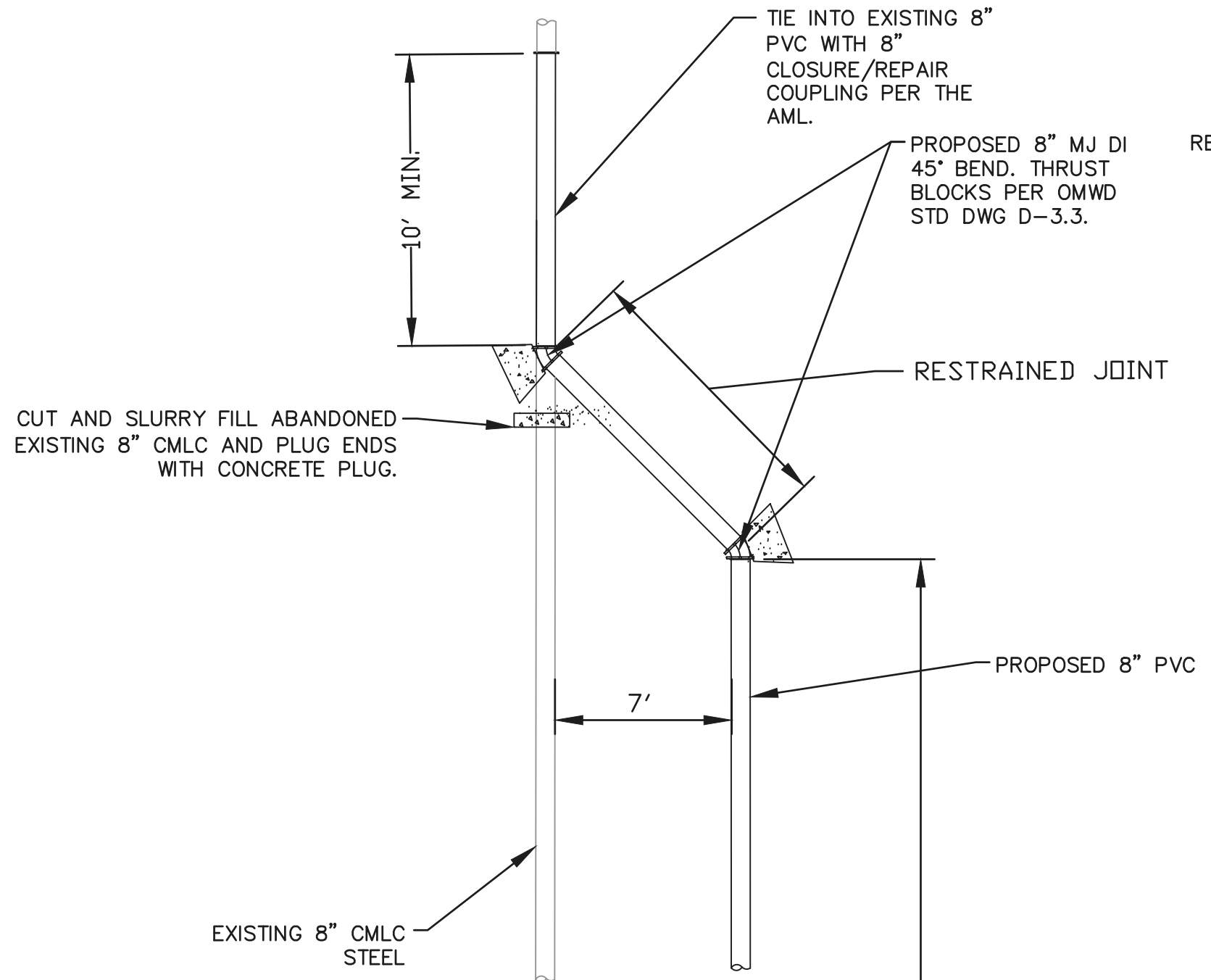
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CONNECTION AT LAS OLAS CT.

SCALE: 1"=5'

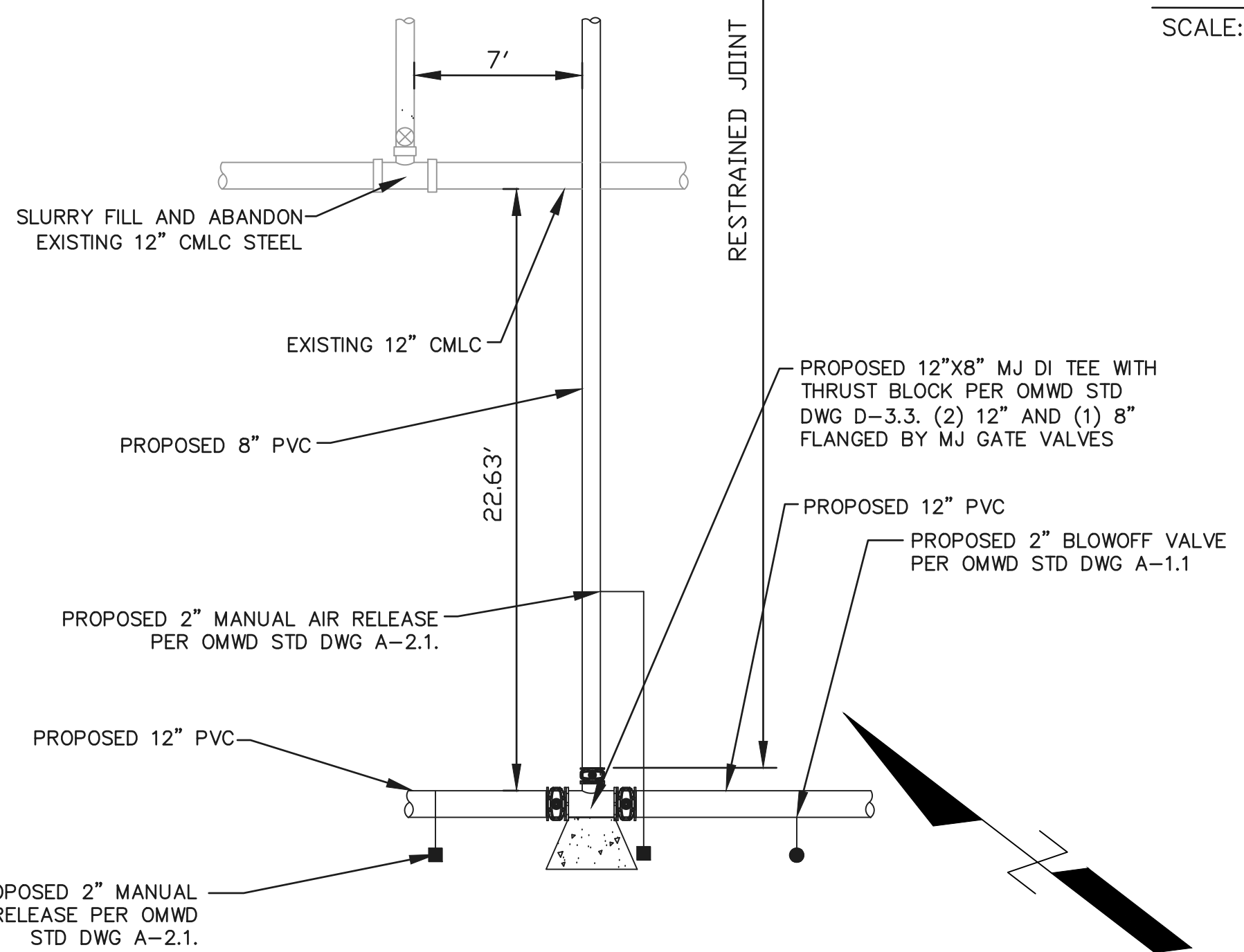
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CONNECTION AT AVENIDA LA CIMA

SCALE: 1"=5'

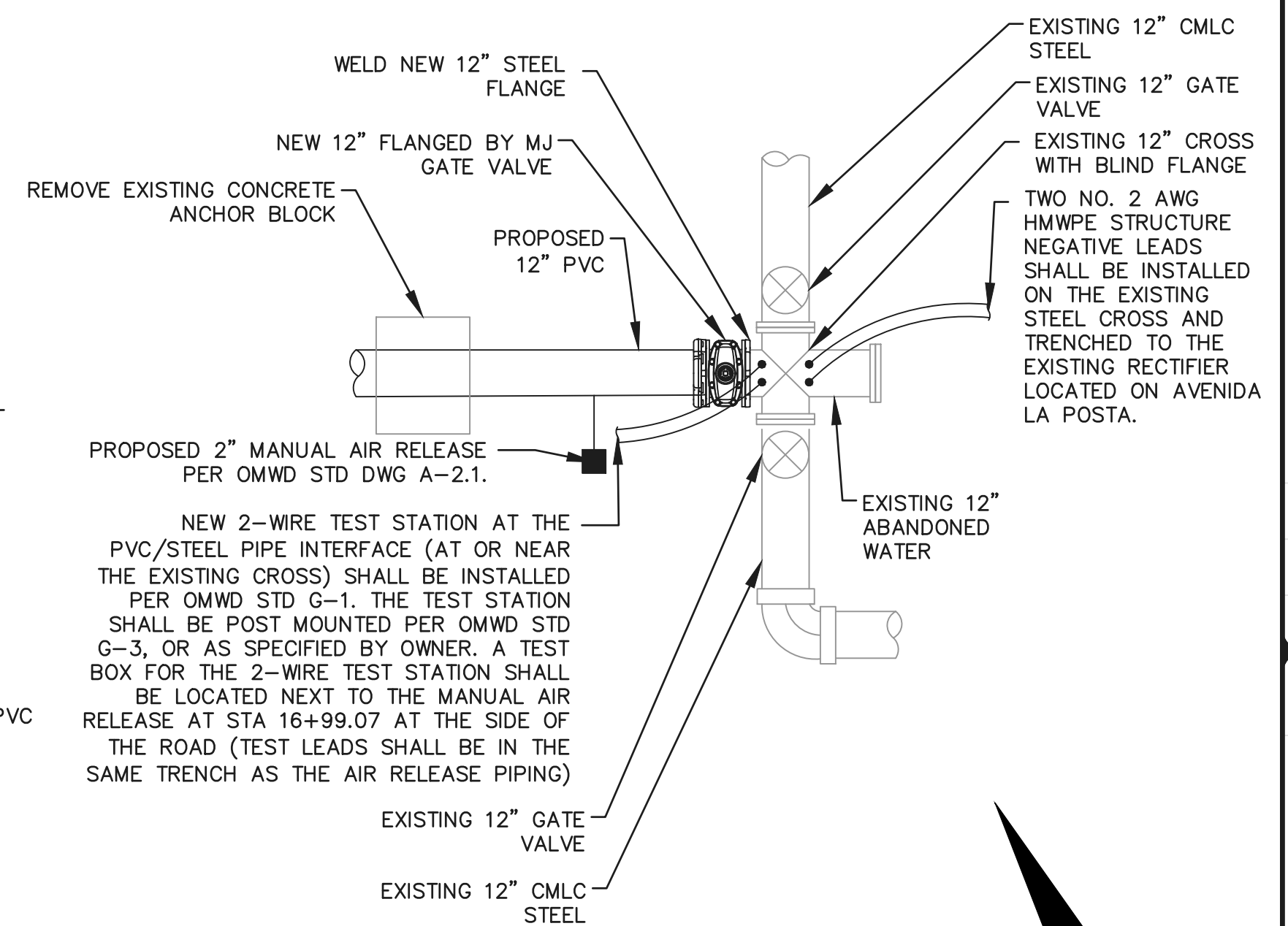
3



CONNECTION AT STA 17+05.60

SCALE: 1"=3'

4



MEDIAN CONCRETE & PLANTER

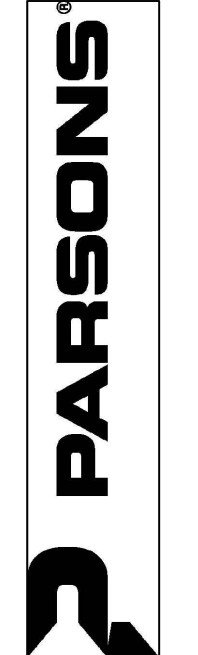
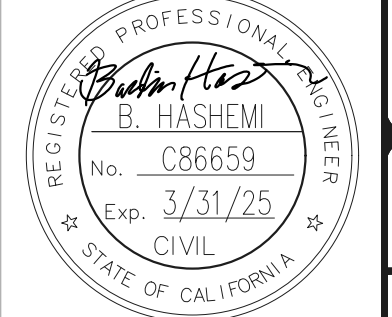
SCALE: 1"=8'

5

MEDIAN CONCRETE NOTES:

1. CONCRETE COLOR AND PATTERNS SHALL BE AS SPECIFIED UNDER "ARTERIAL STREETSCAPE THEMES" (PER APPENDIX C.1 OF THE CARLSBAD LANDSCAPE MANUAL) AND SHALL MATCH EXISTING AND AS SPECIFIED.
2. CONCRETE SHALL BE A MINIMUM OF 560-C-3250 WITH 6X6 - 10X10 WELDED WIRE MESH.

10/9/23



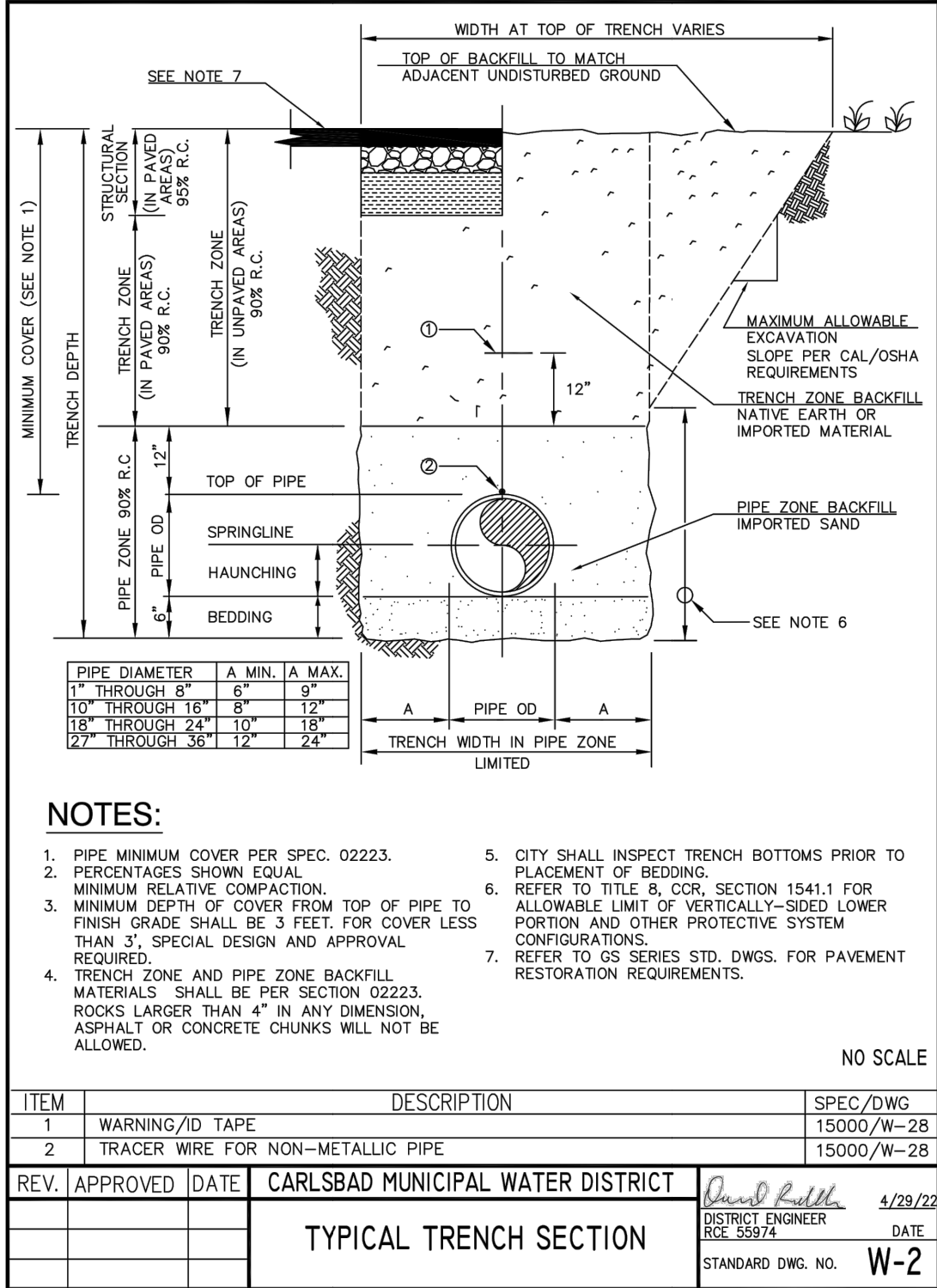
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UNIT A - RANCHO SANTA FE ROAD POTABLE WATER
PIPELINE REPLACEMENT

SHEET 7 OF 9
DRAWING C-4

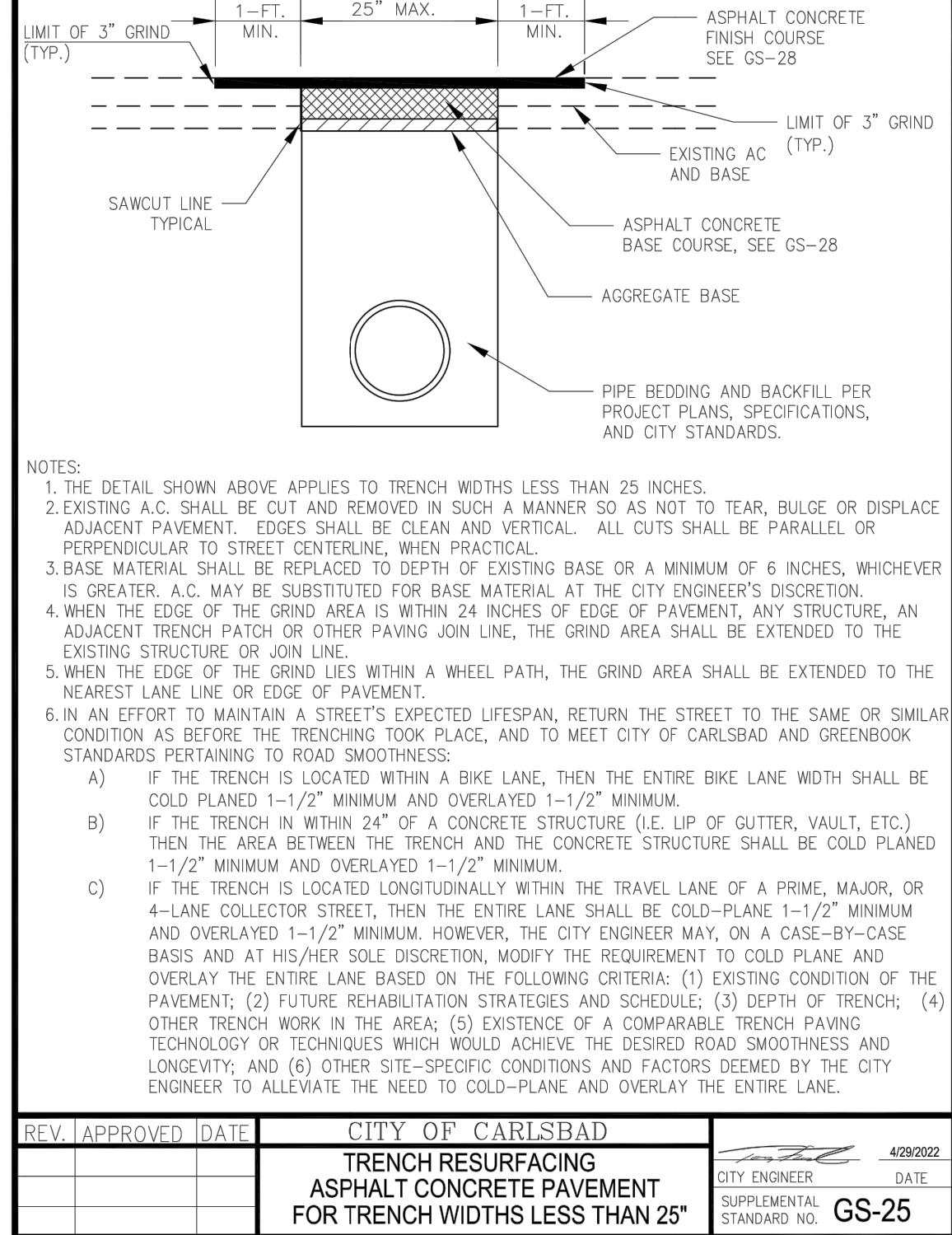
DETAILS 1

MARK DATE BY REVISIONS



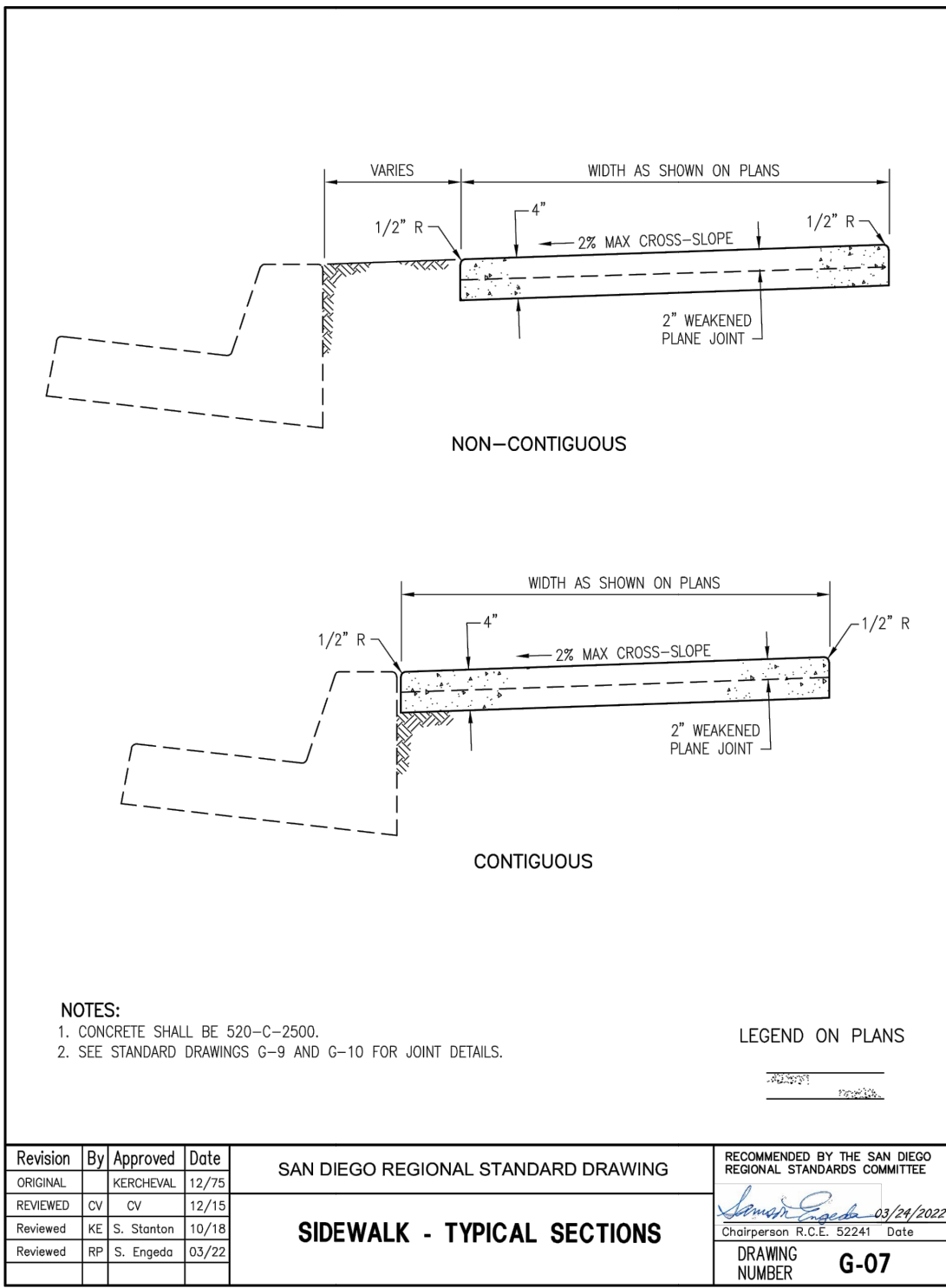
TYPICAL TRENCH SECTION

NOT TO SCALE



TRENCH RESURFACING ASPHALT CONCRETE PAVEMENT FOR TRENCH WIDTHS LESS THAN 25"

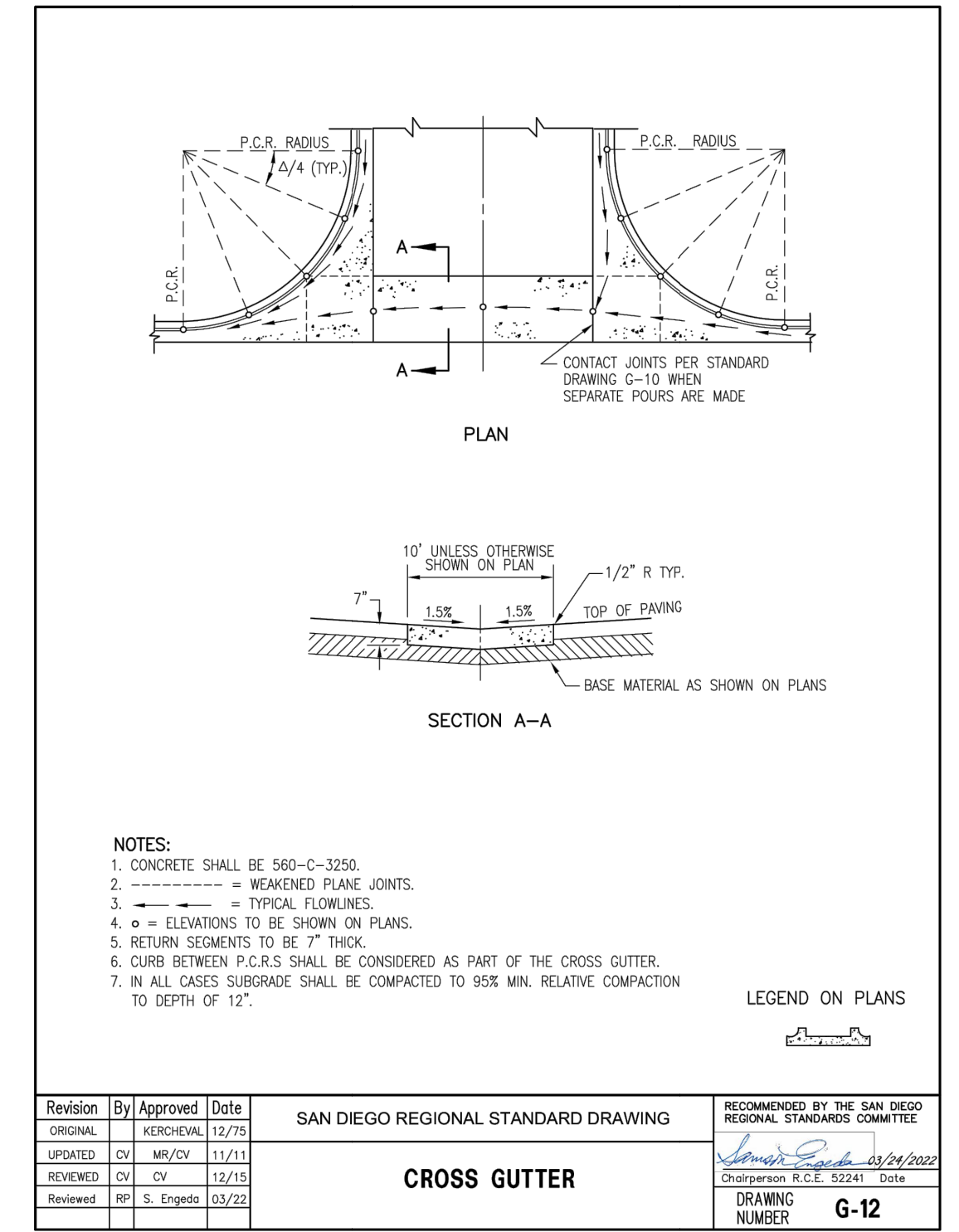
NOT TO SCALE



SIDEWALK - TYPICAL SECTIONS

NOT TO SCALE

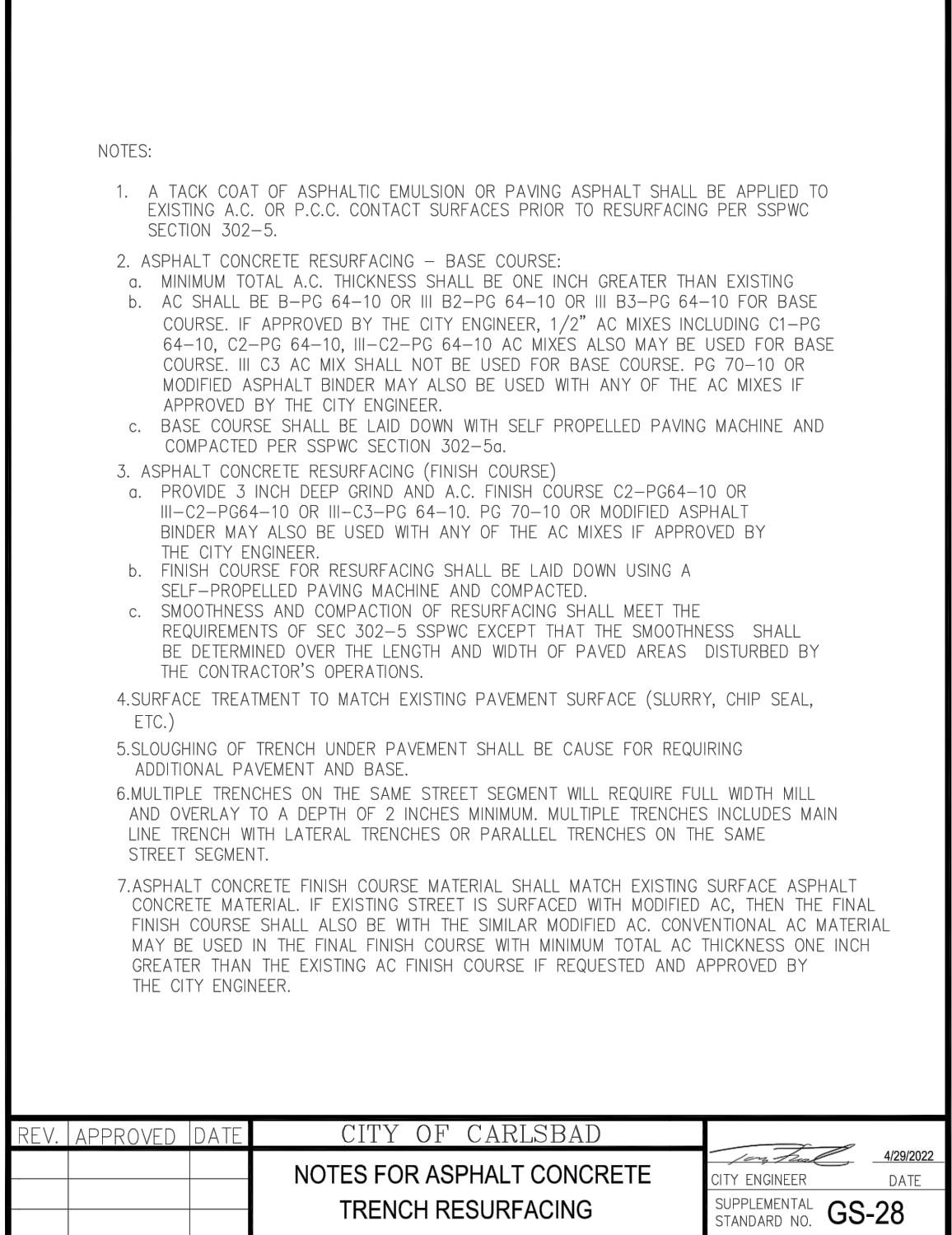
NOTE: UNDER NO CIRCUMSTANCES SHALL THE FINISHED CROSS-SLOPE BE GREATER THAN 2.0% (INCLUDING CONSTRUCTION TOLERANCE).



CROSS GUTTER

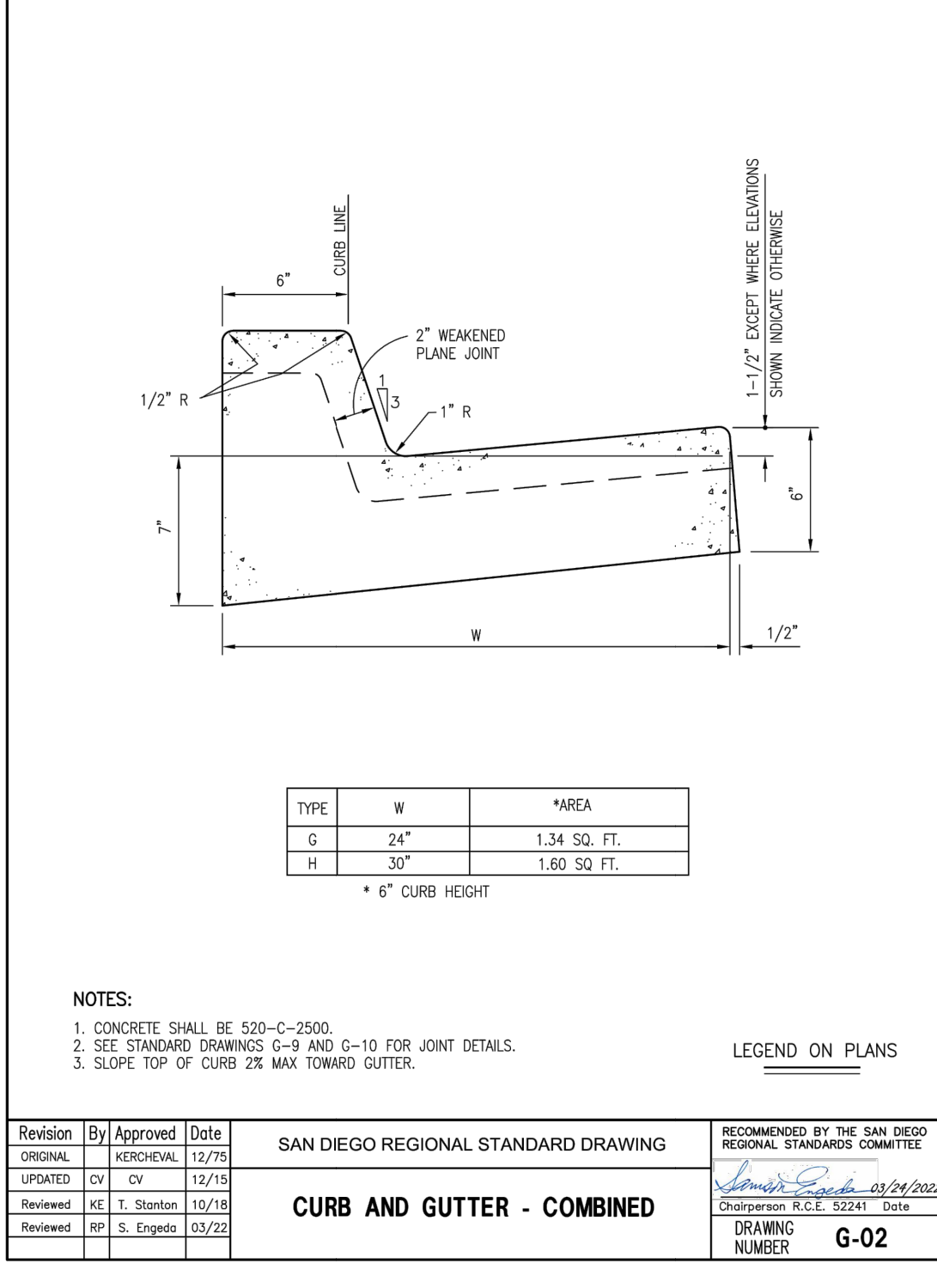
NOT TO SCALE

NOTE: UNDER NO CIRCUMSTANCES SHALL THE FINISHED CROSS-SLOPE BE GREATER THAN 2.0% (INCLUDING CONSTRUCTION TOLERANCE).



NOTES FOR ASPHALT CONCRETE TRENCH RESURFACING

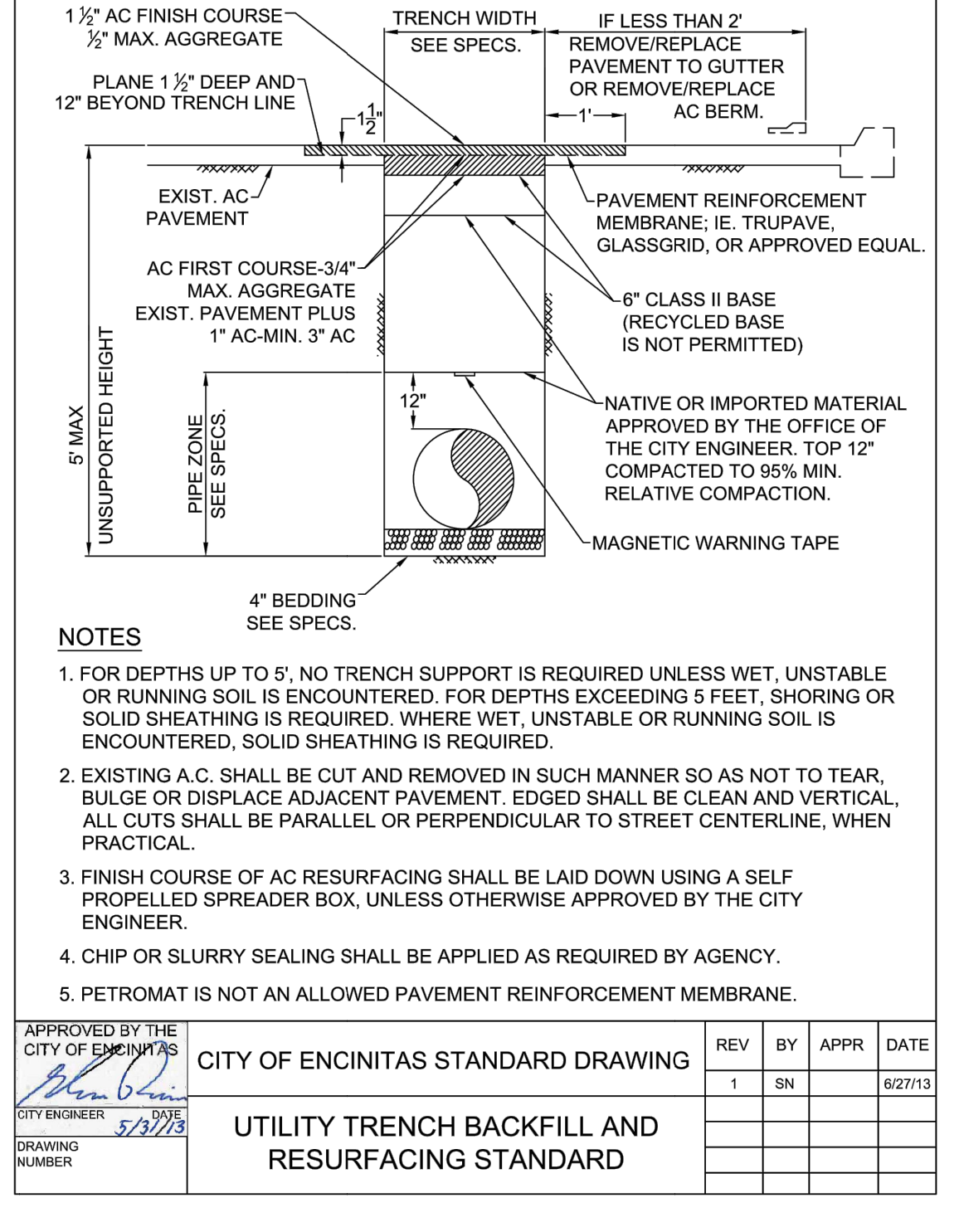
NOT TO SCALE



CURB AND GUTTER - COMBINED

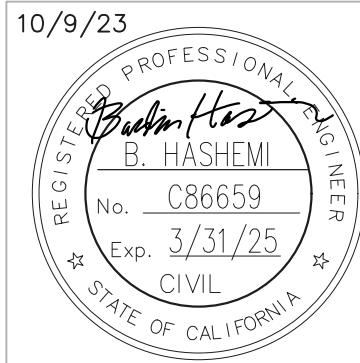
NOT TO SCALE

NOTE: UNDER NO CIRCUMSTANCES SHALL THE FINISHED CROSS-SLOPE BE GREATER THAN 2.0% (INCLUDING CONSTRUCTION TOLERANCE).



UTILITY TRENCH BACKFILL AND RESURFACING STANDARD

NOT TO SCALE



UNIT A - RANCHO SANTA FE ROAD POTABLE WATER PIPELINE REPLACEMENT

SHEET 8 OF 9

DRAWING C-5

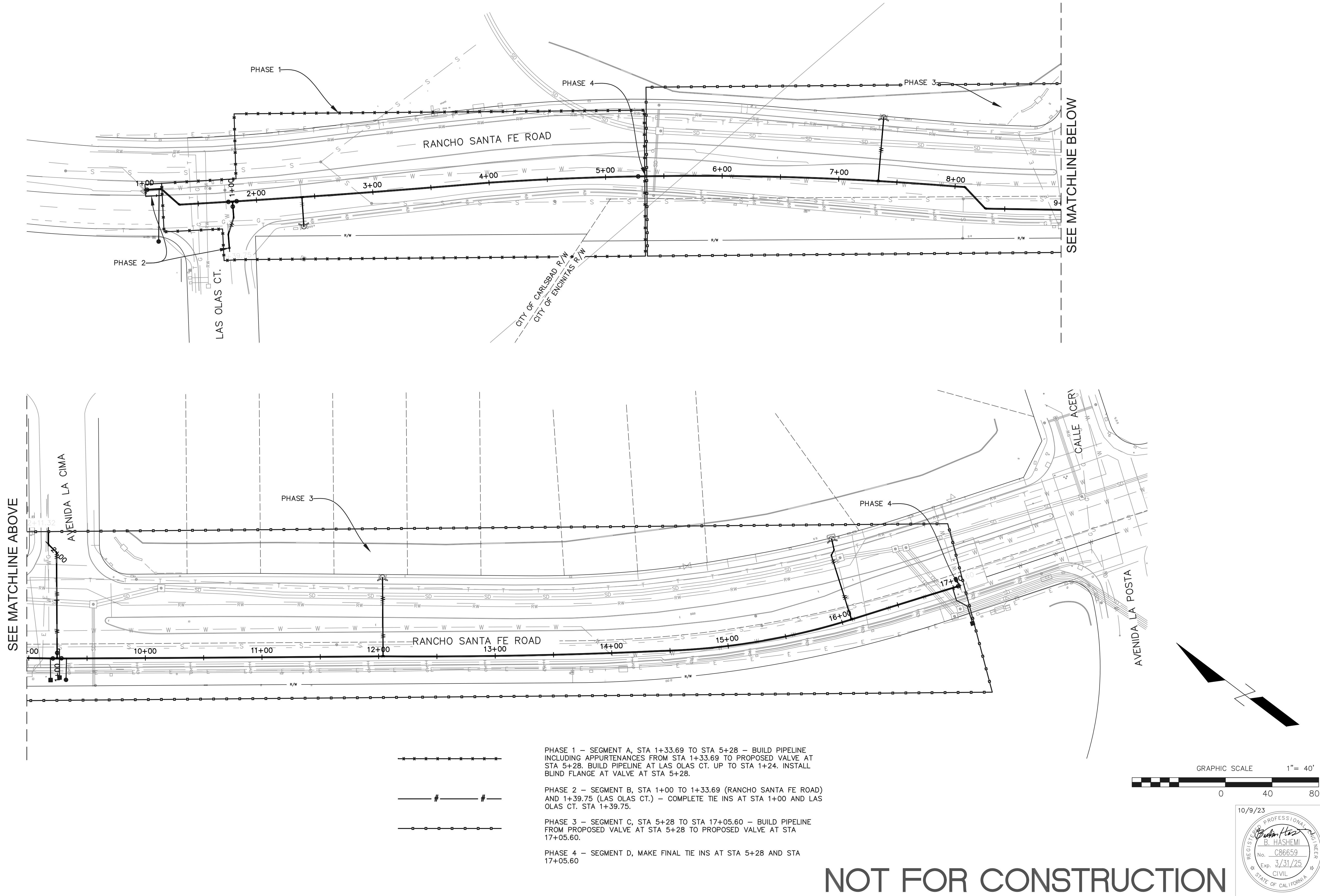
DETAILS 2

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UNIT A - RANCHO SANTA FE ROAD POTABLE WATER PIPELINE REPLACEMENT

SHEET 9 OF 9

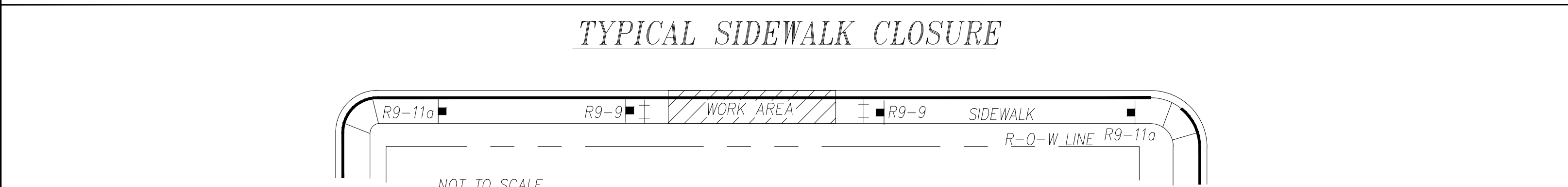
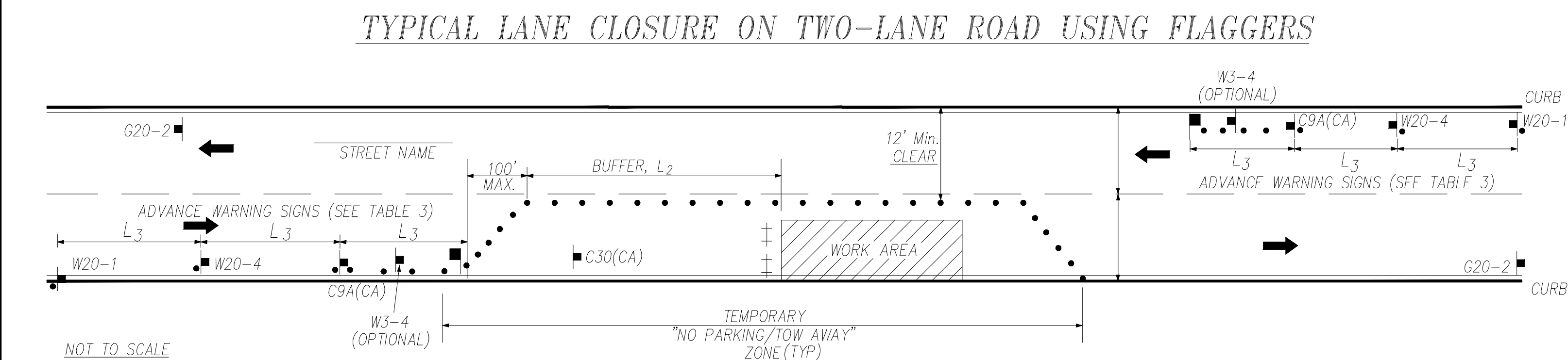
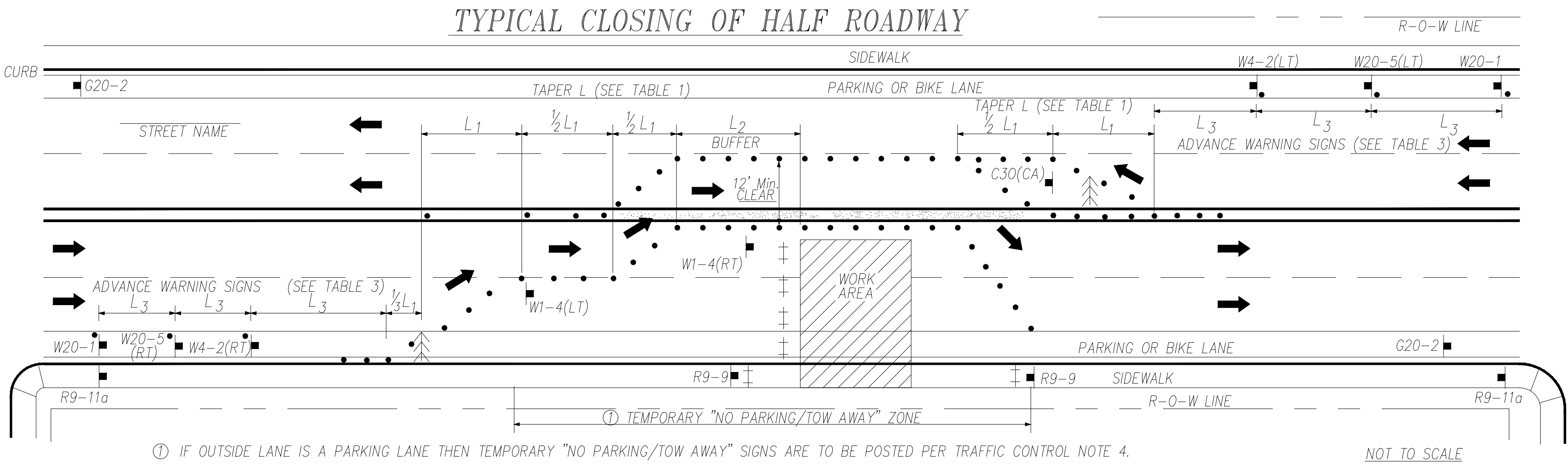
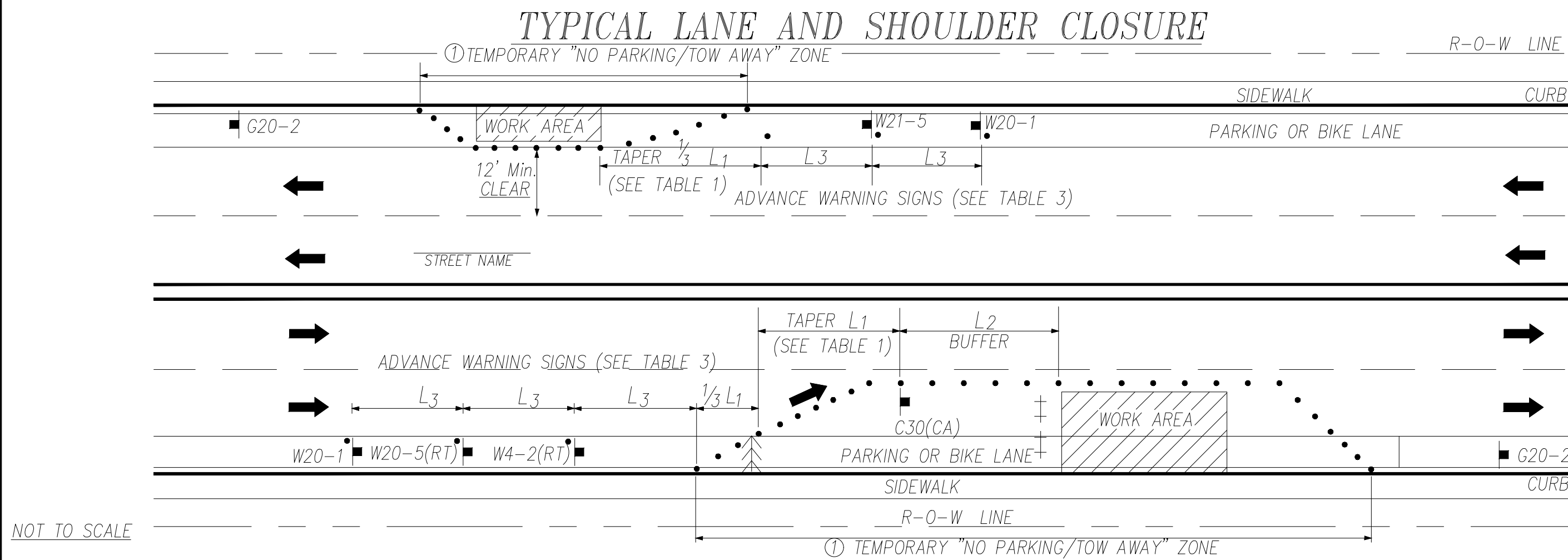
PHASING PLAN

DRAWING C-6

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DESIGN
DRAWN
CHECK

MARK DATE BY REVISIONS



TRAFFIC CONTROL NOTES

- WORK HOURS TO BE RESTRICTED TO **8:30 AM** TO **3:30 PM** UNLESS APPROVED OTHERWISE.
- PEDESTRIAN CONTROLS WILL BE PROVIDED AS SHOWN.
- PEDESTRIANS SHALL BE PROTECTED FROM ENTERING THE EXCAVATION BY PHYSICAL BARRIERS DESIGNED, INSTALLED, AND MAINTAINED TO THE SATISFACTION OF THE CITY ENGINEER.
- TEMPORARY "NO PARKING/TOW AWAY" SIGNS STATING THE DATE AND TIME OF PROHIBITION WILL BE POSTED 72 HOURS PRIOR TO COMMENCING WORK. CALL CARLSBAD POLICE DISPATCH AT (760)931-2197 TO VALIDATE POSTING.
- ACCESS WILL BE MAINTAINED TO ALL DRIVEWAYS UNLESS OTHER ARRANGEMENTS ARE MADE.
- TRENCHES MUST BE BACKFILLED OR PLATED DURING NON-WORKING HOURS UNLESS K-RAIL BARRIERS ARE PROVIDED. K-RAIL IS APPROVED ONLY WHEN SPECIFICALLY SHOWN ON THE APPROVED TRAFFIC CONTROL PLAN. PLATES SHALL HAVE CLEATS AND COLD MIX AT THE EDGES AS APPROVED BY THE CITY INSPECTOR.
- EXISTING STRIPING, CROSSWALKS, LEGENDS AND/OR PAVEMENT MARKERS SHALL BE REPLACED BY THE CONTRACTOR WITHIN 24 HOURS, IF REMOVED OR DAMAGED.
- WORK THAT DISTURBS NORMAL TRAFFIC SIGNAL TIMING OPERATIONS SHALL BE COORDINATED WITH THE CITY OF CARLSBAD, 72 HOURS PRIOR TO COMMENCING WORK.
- TRAFFIC SIGNALS SHALL REMAIN FULLY ACTUATED AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE CITY TRAFFIC ENGINEER OR HIS REPRESENTATIVE. IF TRAFFIC SIGNAL LOOP DETECTORS ARE RENDERED INOPERATIVE BY THE PROPOSED WORK, VIDEO DETECTION SHALL BE USED TO PROVIDE ACTUATION.
- FLAGGERS SHALL BE EQUIPPED WITH A WHITE HARD HAT, AN ORANGE VEST, AND A "STOP/SLOW" PADDLE ON A 5 FOOT STAFF.
- ALL TRAFFIC CONTROL DEVICES MUST BE MAINTAINED 24 HOURS A DAY, 7 DAYS PER WEEK, BY THE CONTRACTOR.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD, LATEST EDITION).
- TRAFFIC CONTROL PLAN SUBMITTALS ARE REQUIRED FOR EACH PHASE OF THE WORK IN THE DETAIL, FORMAT, AND QUALITY ILLUSTRATED ON THIS SHEET.
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM VIEW OR COVERED WHEN NOT IN USE.
- THE CITY TRAFFIC ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO INSURE PUBLIC SAFETY.
- ALL WORK AFFECTING BUS STOPS SHALL BE COORDINATED WITH NORTH COUNTY TRANSIT DISTRICT. CONTRACTOR SHALL CALL NCTD AT (760) 967-2828 AT LEAST 72 HOURS IN ADVANCE OF STARTING WORK.
- CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF TRAFFIC CONTROL ON MAJOR AND PRIME ARTERIALS, UNLESS OTHERWISE APPROVED. THESE SIGNS SHALL BE SHOWN ON THE TRAFFIC CONTROL PLAN.

SIGNAGE NOTES

- AT LEAST ONE PERSON SHALL BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON ALL NIGHT LANE CLOSURES.
- ALL WARNING SIGNS FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED OR REFLECTORIZED AS SPECIFIED IN THE SPECIFICATIONS.
- ALL ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES OF ALL MAJOR AND PRIME ARTERIALS. FLASHING BEACONS SHALL BE USED DURING NIGHT LANE CLOSURES.
- A G20-2 "END ROAD WORK" SIGN SHALL BE PLACED AT THE END OF THE LANE CLOSURE UNLESS THE END OF THE WORK AREA IS OBVIOUS, OR ENDS WITHIN A LARGER PROJECT LIMITS.
- ALL CONES USED FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED TRAFFIC CONES OR FITTED WITH 13" REFLECTIVE SLEEVES.
- FLASHING ARROW SIGNS SHALL BE USED PER THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD, LATEST EDITION).
- SILENT TYPE SHALL BE USED IN RESIDENTIAL AREAS.
- THE MAXIMUM SPACING BETWEEN CONES IN A TAPER OR A TANGENT SHALL BE APPROXIMATELY AS SHOWN IN TABLE 1.
- ADDITIONAL ADVANCE FLAGGERS SHALL BE REQUIRED WHEN TRAFFIC QUEUES DEVELOP. FLAGGER STATIONS FOR WORK AT NIGHT SHALL BE ILLUMINATED AS NOTED IN SECTION 66.20 OF THE MUTCD.
- PLACE C30 (CA) "LANE CLOSED" SIGN AT 500'-1000' INTERVALS THROUGHOUT EXTENDED WORK AREAS.
- ALL REQUIRED SIGNS THAT ARE TO BE LEFT IN PLACE OVER A WEEKEND OR HOLIDAY SHALL BE POST MOUNTED USING SQUARE PERFORATED STEEL TUBING WITH BREAKAWAY BASE PER SORSO M-45.
- CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL MEET THE PROVISIONS OF SECTION 12 OF THE MOST RECENT EDITION OF THE CALTRANS STANDARD SPECIFICATIONS.

SIGNS

DETOUR AHEAD W20-2

RIGHT LANE CLOSED AHEAD W20-5(RT)

LEFT LANE CLOSED AHEAD W20-5(LT)

BIKE LANE CLOSED AHEAD W20-5(BIKE)

ROAD WORK AHEAD W20-1

ONE LANE ROAD AHEAD W20-4

SHOULDER WORK W21-5

BE PREPARED TO STOP W3-4

W4-2(RT)

END WORK G20-2

SIDEWALK CLOSED R9-9

SIDEWALK CLOSED CROSS HERE R9-11a

XX MPH SPEED ZONE AHEAD W3-5A

C9A(CA)

LANE CLOSED C30(CA)

SHOULDER CLOSED C30A(CA)

BIKE LANE CLOSED C30(BIKE)

R3-2

DETOUR M4-10(U-TURN)

SC3(CA)

SIDEWALK CLOSED USE OTHER SIDE R9-10

BIKE MAY USE FULL LANE R4-11

SHARE THE ROAD W16-1

END WORK ZONE SPEED LIMIT R2-12

PEDESTRIAN CROSSWALK R9-8

R3-18

TABLE 3: SIGN SPACING, L₃

APPROACH SPEED (M.P.H.)	MINIMUM DISTANCE IN FEET L ₃	
	BETWEEN SIGNS *	FROM LAST * SIGN TO TAPER
LESS THAN 25	100'	100'
25 TO 40	350'	350'
GREATER THAN 40	500'	500'

* EXACT SPACING MAY VARY DUE TO FIELD CONDITIONS

LEGEND

- ➔ DIRECTION OF TRAVEL
- PORTABLE SIGN
- TRAFFIC CONE/DELINEATOR
- ⊕ TYPE II BARRICADE
- FLAGGER
- Y FLAG TREE
- ⏏ FLASHING ARROW SIGN
- ✱ PORTABLE FLASHING BEACON (SEE SIGNAGE NOTE #3)
- ▬ K-RAIL (TYPE 50 CONCRETE BARRIER)
- CMS CHANGEABLE MESSAGE SIGN
- ▨ PROPOSED WORK AREA

TABLE 1: TAPER LENGTHS, L₁

APPROACH SPEED (M.P.H.)	MINIMUM TAPER LENGTH L ₁ *	MINIMUM NUMBER OF CONES FOR TAPER *	MAXIMUM SPACING OF CONES ALONG TAPER (FEET) ±	MAXIMUM SPACING OF CONES ALONG TANGENT (FEET) ±
25	125	6	25	50
30	180	7	30	60
35	245	8	35	70
40	320	9	40	80
45	540	13	45	90
50	600	13	50	100
55	660	13	55	110
60	720	13	60	120

BASED ON 12 FOOT WIDE LANE. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

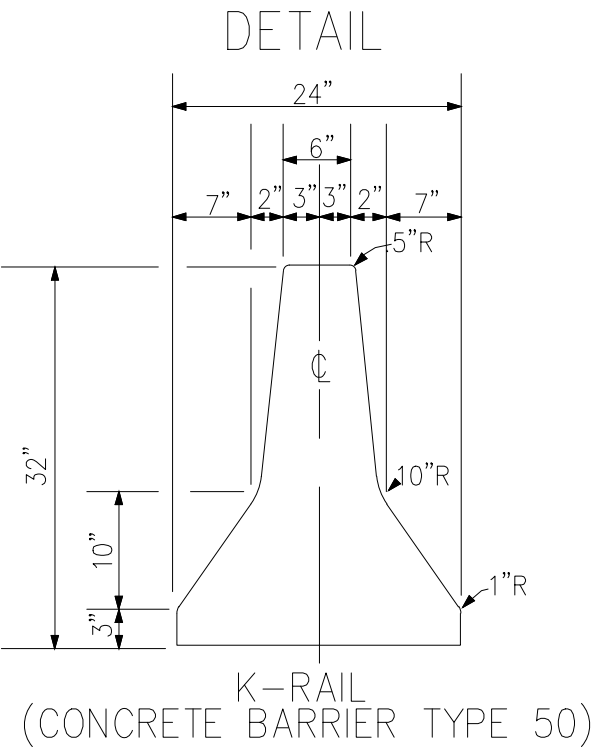
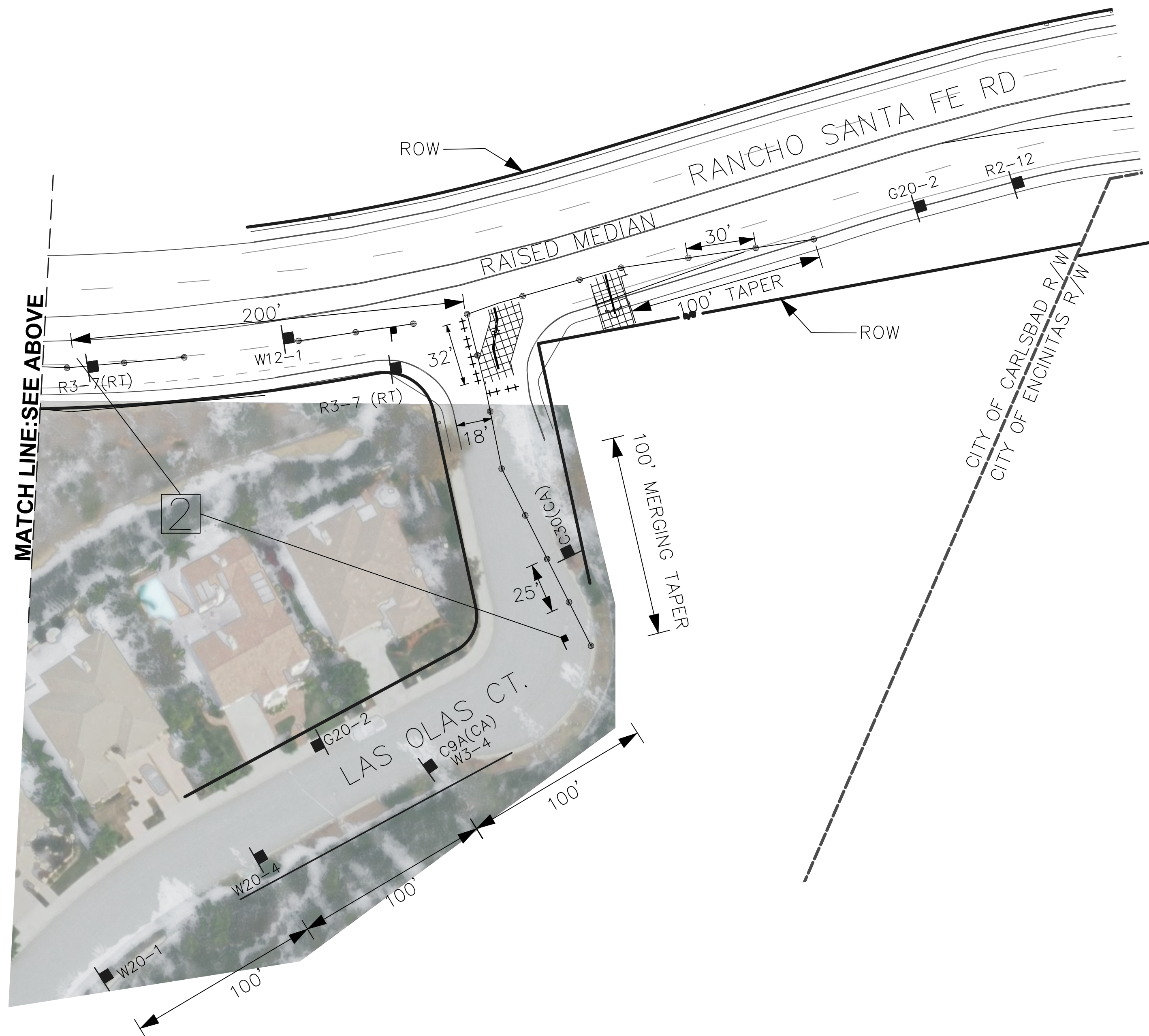


TABLE 2: BUFFER SPACE, L₂

APPROACH SPEED (M.P.H.)	LONGITUDINAL BUFFER SPACE L ₂ (FEET) ± *
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570

* SEE CA MUTCD TABLE 6E-101(CA) FOR SUSTAINED DOWNGRADES STEEPER THAN 3% AND LONGER THAN 1 MILE.

ENGINEERS SEAL 10/09/23 REGISTERED PROFESSIONAL ENGINEER B. HASHEMI No. C86659 Exp. 3/31/25 CIVIL STATE OF CALIFORNIA		DRAWN BY: _____ DATE: _____ RCE: _____ EXP: _____	
CITY OF CARLSBAD APPROVED for TRAFFIC ENGINEER DATE		SHEET TC01 CITY OF CARLSBAD ENGINEERING DEPARTMENT SHEETS 8 TRAFFIC CONTROL PLAN FOR: OLIVENHAIN MUNICIPAL WATER DISTRICT RANCHO SANTA FE ROAD POTABLE WATER PIPELINE REPLACEMENT APPROVED: ROBERT T. JOHNSON JR. CITY ENGINEER PE 28515 EXPIRES 6/30/10 DATE DWN BY: _____ PROJECT NO. _____ CHKD BY: _____ DRAWING NO. _____ RVWD BY: _____	



WORK HOURS:
8: 30AM – 3: 30PM

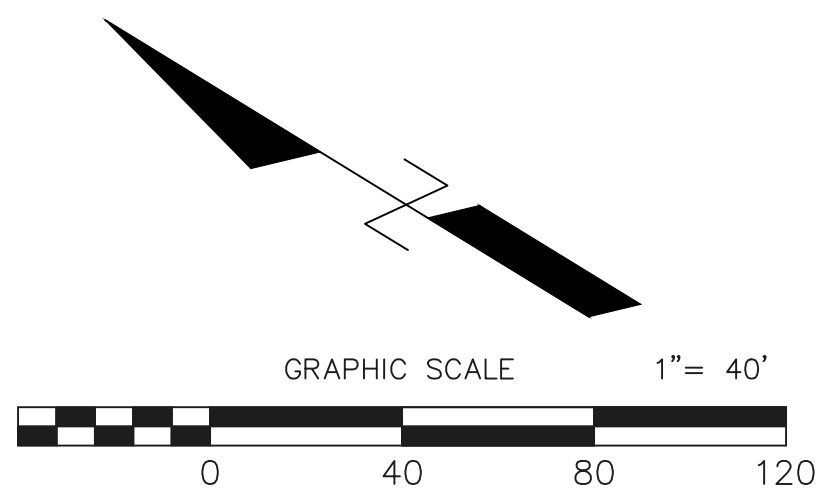
TRAFFIC CONTROL PLAN DESIGN SPEED:
RANCHO SANTA FE RD: 35 MPH
LAS OLAS CT: 25 MPH

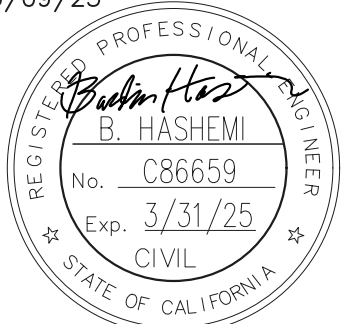
- NOTES:
- 1. CONTRACTOR TO NOTIFY ALL RESIDENTS PRIOR TO START OF WORK
 - 2. CONTRACTOR WILL PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES.
 - 3. CONTRACTOR TO COORDINATE ALL WORK WITH NCTD (BUS STOPS) FIVE DAYS PRIOR TO START OF WORK.

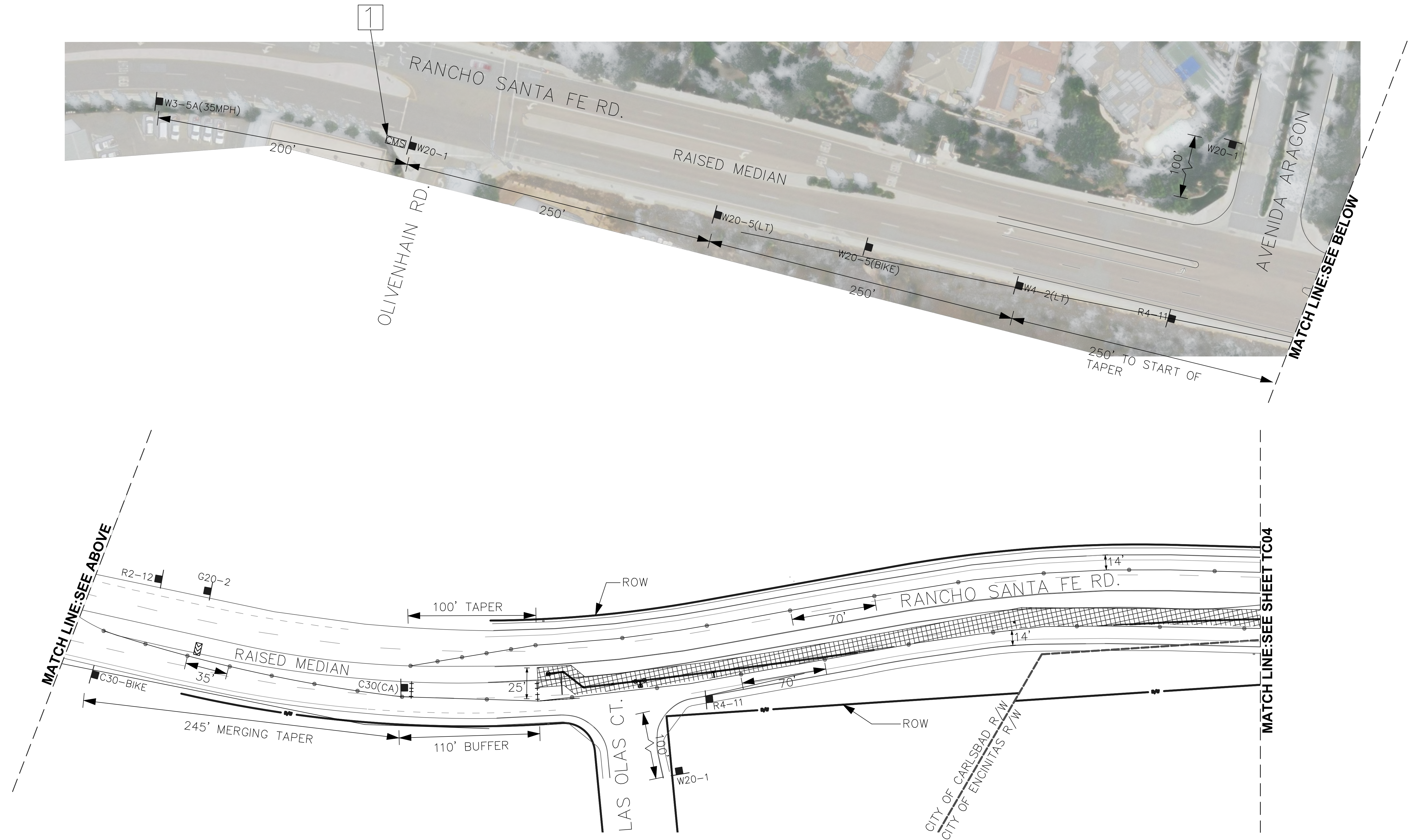
TRAFFIC VOLUMES:
RANCHO SANTA FE RD: 15,258 ADT

SPECIAL NOTES:

- 1 CMS SIGN TO READ: "SPEED REDUCTION 35 MPH"
- 2 TRAFFIC CONTROL FLAGGER



<div>ENGINEERS SEAL</div> <div>10/09/23</div> <div></div> <div>CITY OF CARLSBAD APPROVED</div> <div>or TRAFFIC DIVISION DATE</div>		<div>DRAWN BY: _____</div> <div>DATE: _____</div> <div>RCE: _____ EXP. _____</div> <div><div>SHEET TC02</div><div>CITY OF CARLSBAD ENGINEERING DEPARTMENT</div><div>SHEETS 8</div></div> <div>RANCHO SANTA FE RD. – OLIVENHAIN RD. TO LAS OLAS CT.</div> <div><div>APPROVED</div><div>_____ DATE</div></div> <div><div>DWN BY: _____</div><div>CHKD BY: _____</div><div>RVWD BY: _____</div></div> <div><div>EXPIRES</div><div>PROJECT NO.</div></div> <div><div>DATE</div><div>DRAWING NO.</div></div>
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SPECIAL NOTES:

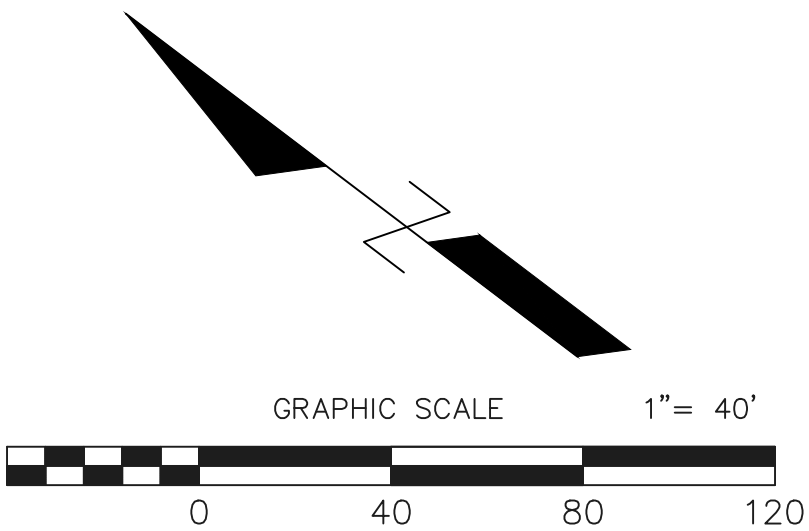
1 CMS SIGN TO READ: "SPEED REDUCTION 35 MPH"

WORK HOURS:
8: 30AM – 3: 30PM

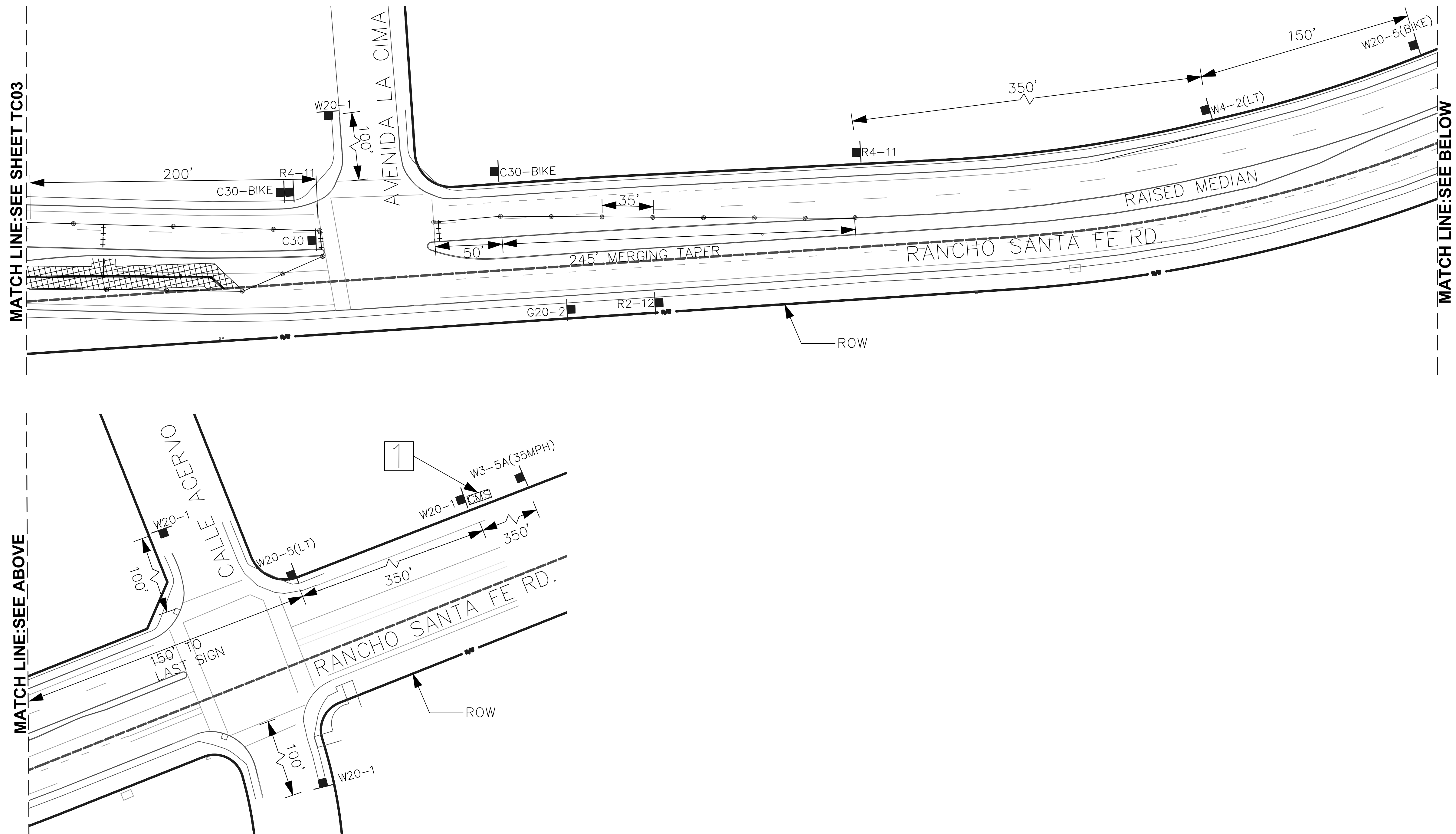
- NOTES:
- 1. CONTRACTOR TO NOTIFY ALL RESIDENTS PRIOR TO START OF WORK
 - 2. CONTRACTOR WILL PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES.
 - 3. CONTRACTOR TO COORDINATE ALL WORK WITH NCTD (BUS STOPS) FIVE DAYS PRIOR TO START OF WORK.

TRAFFIC CONTROL PLAN DESIGN SPEED:
RANCHO SANTA FE RD: 35 MPH

TRAFFIC VOLUMES:
RANCHO SANTA FE RD: 15,258 ADT



ENGINEERS SEAL 10/09/23 CITY OF CARLSBAD APPROVED		DRAWN BY: _____ DATE: _____ RCE: _____ EXP. _____	
SHEET TC03		SHEETS 8	
CITY OF CARLSBAD ENGINEERING DEPARTMENT			
RANCHO SANTA FE RD. – LAS OLAS CT. TO CALLE ACERVO			
APPROVED _____ DATE _____			
DWN BY: _____ CHKD BY: _____ RVWD BY: _____		EXPIRES _____ PROJECT NO. _____ DRAWING NO. _____	



WORK HOURS:
8:30AM — 3:30PM

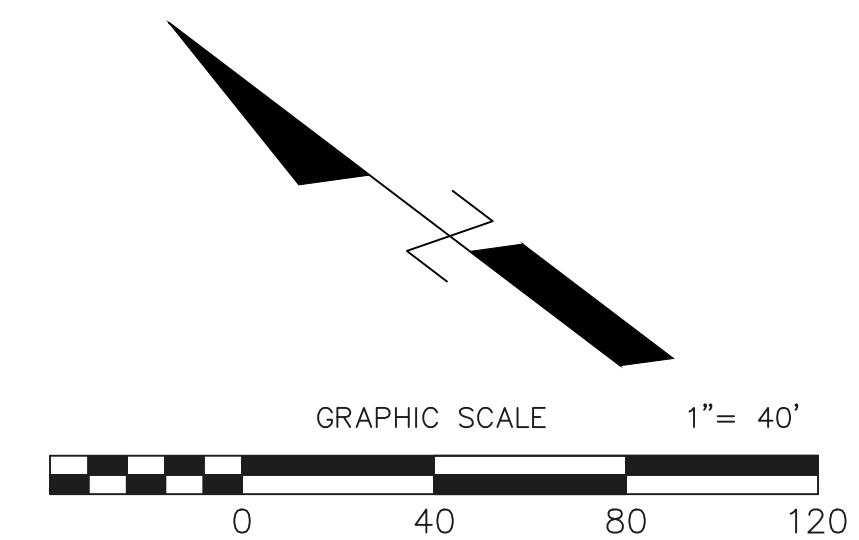
- NOTES:
1. CONTRACTOR TO NOTIFY ALL RESIDENTS PRIOR TO START OF WORK
 2. CONTRACTOR WILL PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES.
 3. CONTRACTOR TO COORDINATE ALL WORK WITH NCTD (BUS STOPS) FIVE DAYS PRIOR TO START OF WORK.

SPECIAL NOTES:

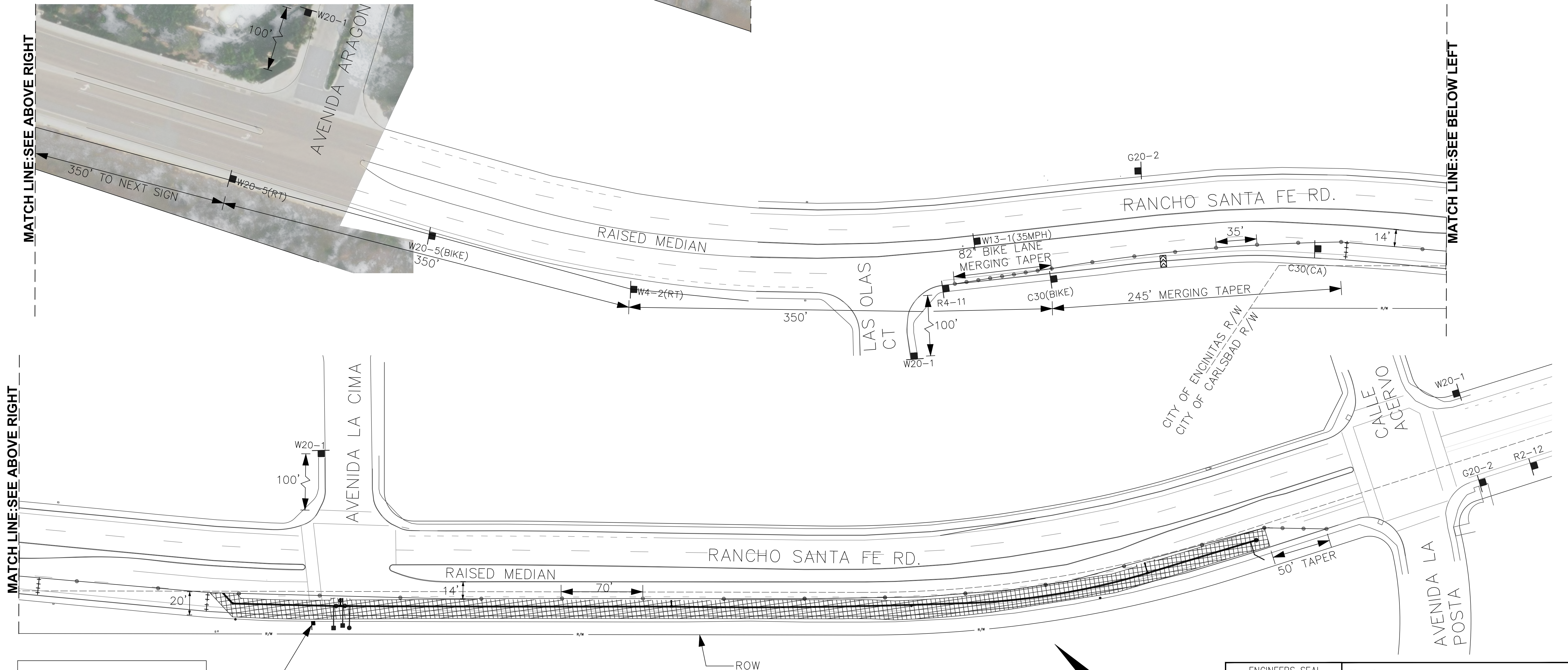
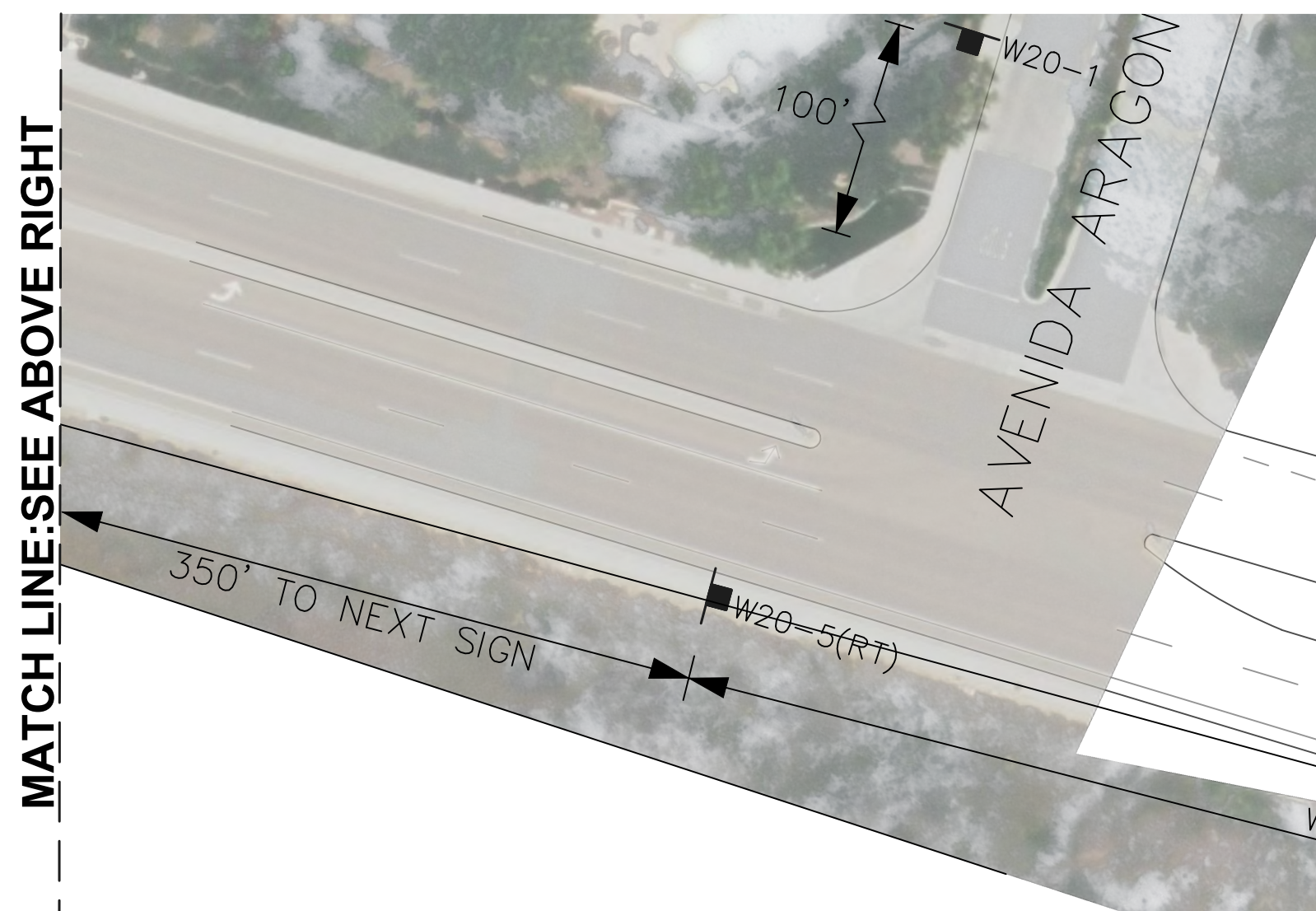
1 CMS SIGN TO READ: "SPEED REDUCTION 35 MPH"

TRAFFIC CONTROL PLAN DESIGN SPEED:
RANCHO SANTA FE RD: 35 MPH

TRAFFIC VOLUMES:
RANCHO SANTA FE RD: 15,258 ADT



ENGINEERS SEAL 10/09/23 CITY OF CARLSBAD APPROVED		DRAWN BY: _____ DATE: _____ RCE: _____ EXP. _____	
SHEET TC04		CITY OF CARLSBAD ENGINEERING DEPARTMENT	
RANCHO SANTA FE RD. — LAS OLAS CT. TO CALLE ACERVO		SHEETS 8	
APPROVED _____ DATE		EXPIRES _____ DATE	
DWN BY: _____ CHKD BY: _____ RVWD BY: _____		PROJECT NO. _____ DRAWING NO. _____	



WORK HOURS:
8: 30AM-3: 30PM

TRAFFIC CONTROL PLAN DESIGN SPEED:
RANCHO SANTA FE RD: 35 MPH

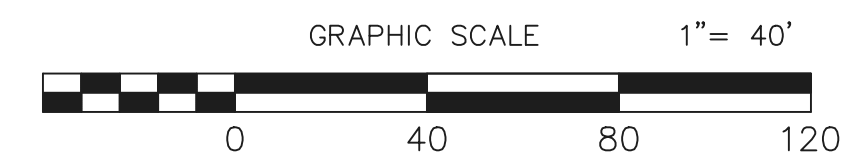
TRAFFIC VOLUMES:
RANCHO SANTA FE RD: 15,258 ADT

SPECIAL NOTES:

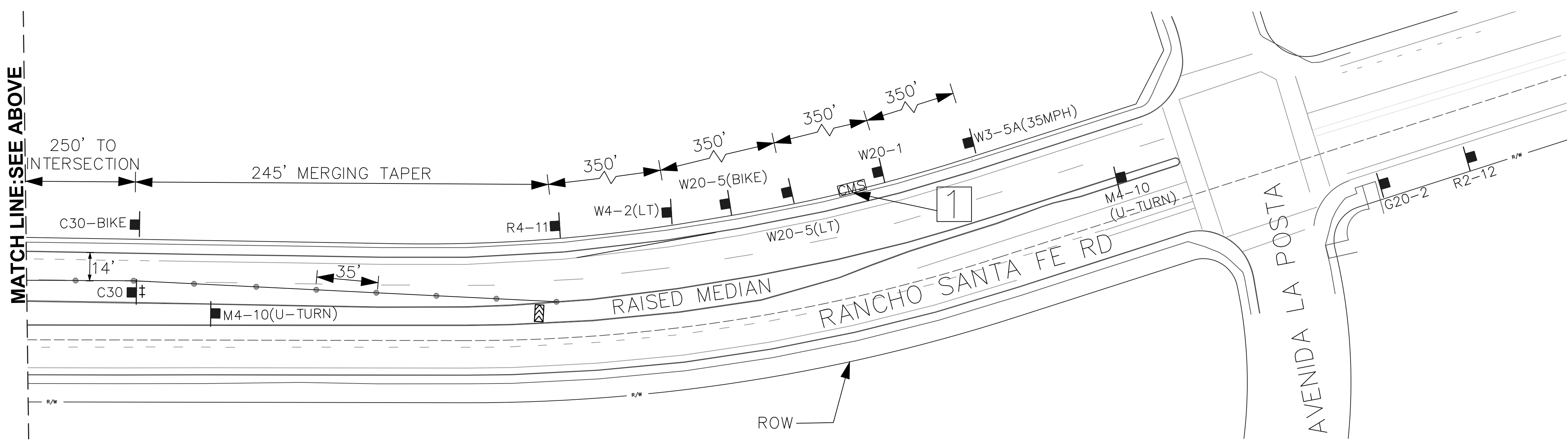
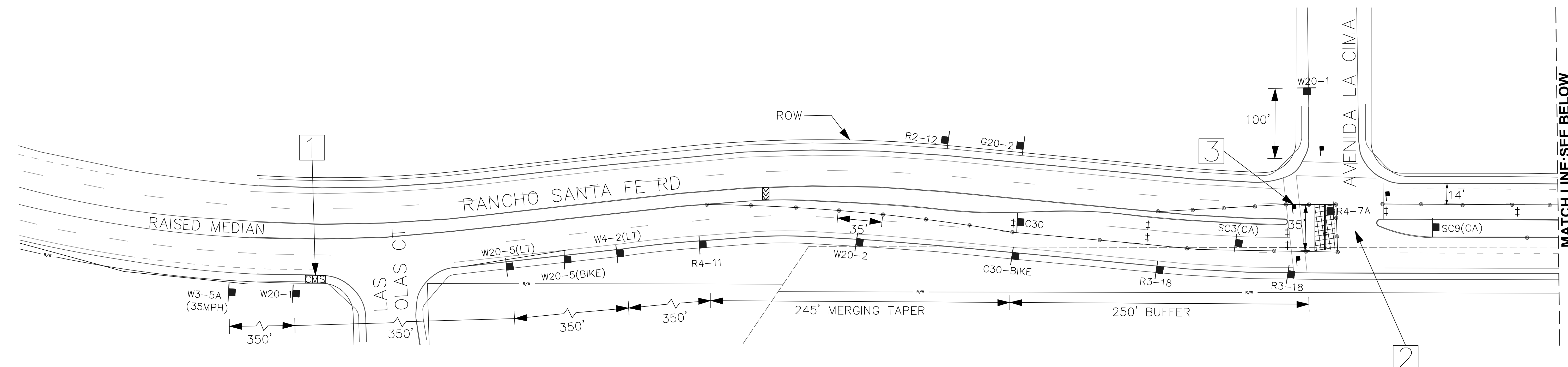
- 1 CMS SIGN TO READ: "SPEED REDUCTION 35 MPH"
- 2 FLAGGER TO ASSIST PEDESTRIANS THROUGH WORK AREA

NOTES:

1. CONTRACTOR TO NOTIFY ALL RESIDENTS PRIOR TO START OF WORK
2. CONTRACTOR WILL PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES.
3. CONTRACTOR TO COORDINATE ALL WORK WITH NCTD (BUS STOPS) FIVE DAYS PRIOR TO START OF WORK.



ENGINEERS SEAL 10/09/23 CITY OF CARLSBAD APPROVED		DRAWN BY: _____ DATE: _____ RCE: _____ EXP. _____	
SHEET TC05		CITY OF CARLSBAD ENGINEERING DEPARTMENT	
RANCHO SANTA FE RD. - LAS OLAS CT. TO AVENIDA LA CIMA		SHEETS 8	
APPROVED _____ DATE		EXPIRES _____ DATE	
DWN BY: _____ CHKD BY: _____ RVWD BY: _____		PROJECT NO. _____ DRAWING NO. _____	



WORK THAT DISTURBS NORMAL TRAFFIC SIGNAL TIMING OPERATIONS SHALL BE COORDINATED WITH THE CITY OF CARLSBAD, 72 HOURS PRIOR TO COMMENCING WORK.

JIM MILTON
jim.milton@carlsbadca.gov

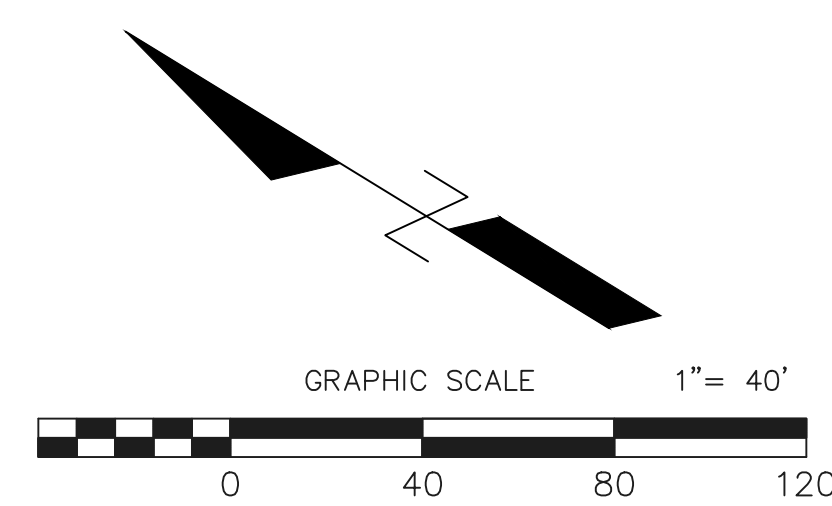
- NOTES:
- 1. CONTRACTOR TO NOTIFY ALL RESIDENTS PRIOR TO START OF WORK
 - 2. CONTRACTOR WILL PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES.
 - 3. CONTRACTOR TO COORDINATE ALL WORK WITH NCTD (BUS STOPS) FIVE DAYS PRIOR TO START OF WORK.

- SPECIAL NOTES:
- 1 CMS SIGN TO READ: "SPEED REDUCTION 35 MPH"
 - 2 TRAFFIC SIGNAL TO BE SET TO FLASH. CONTRACTOR WILL MAINTAIN TRAFFIC WITH FLAGGERS AT EACH LEG OF INTERSECTION.
 - 3 FLAGGER TO ASSIST PEDESTRIANS THROUGH WORK AREA

WORK HOURS:
8:30AM - 3:30PM

TRAFFIC CONTROL PLAN DESIGN SPEED:
RANCHO SANTA FE RD: 35 MPH

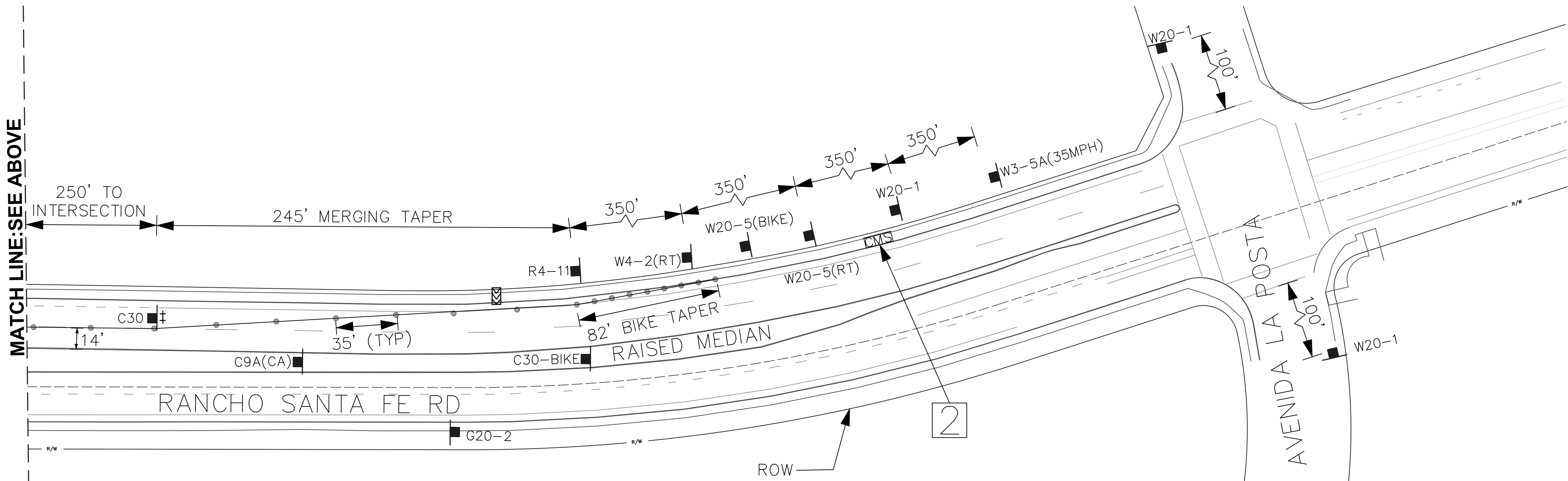
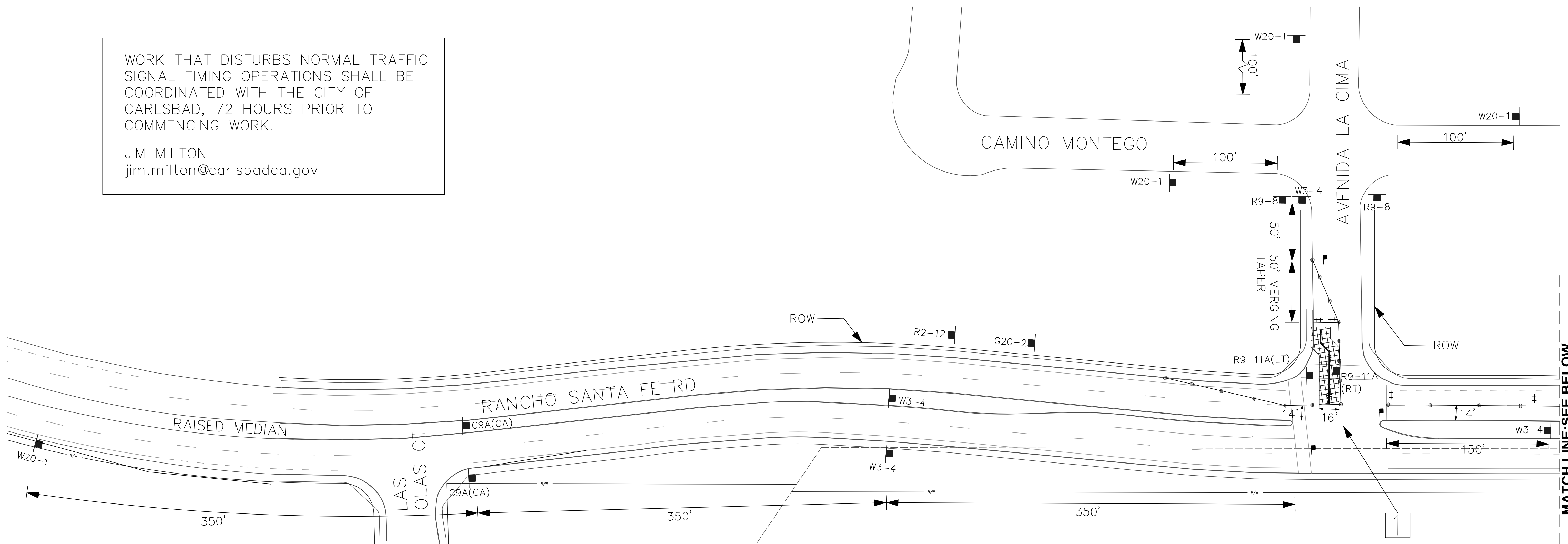
TRAFFIC VOLUMES:
RANCHO SANTA FE RD: 15,258 ADT



ENGINEERS SEAL 10/09/23 CITY OF CARLSBAD APPROVED		DRAWN BY: _____ DATE: _____ RCE: _____ EXP. _____	
SHEET TC06		SHEETS 8	
RANCHO SANTA FE RD. AND AVENIDA LA CIMA INTERSECTION			
APPROVED _____ DATE		EXPIRES _____ DATE	
DWN BY: _____ CHKD BY: _____ RVWD BY: _____		PROJECT NO. _____ DRAWING NO. _____	

WORK THAT DISTURBS NORMAL TRAFFIC SIGNAL TIMING OPERATIONS SHALL BE COORDINATED WITH THE CITY OF CARLSBAD, 72 HOURS PRIOR TO COMMENCING WORK.

JIM MILTON
jim.milton@carlsbadca.gov



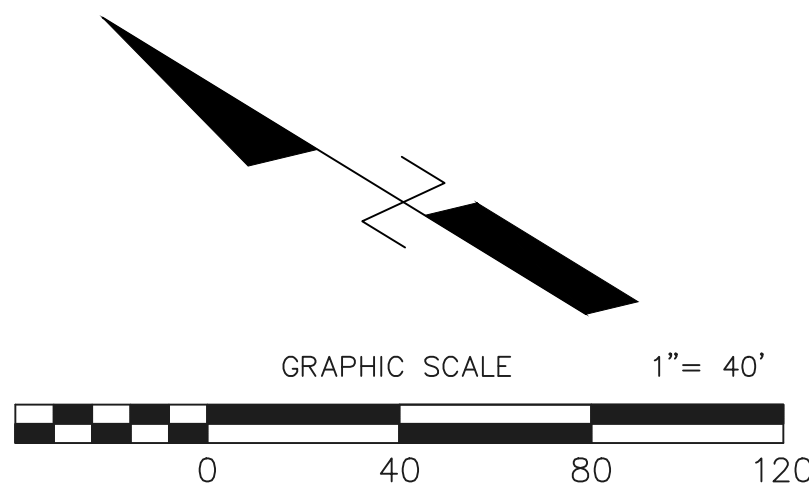
- NOTES:
1. CONTRACTOR TO NOTIFY ALL RESIDENTS PRIOR TO START OF WORK
 2. CONTRACTOR WILL PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES.
 3. CONTRACTOR TO COORDINATE ALL WORK WITH NCTD (BUS STOPS) FIVE DAYS PRIOR TO START OF WORK.

WORK HOURS:
8: 30AM – 3: 30PM

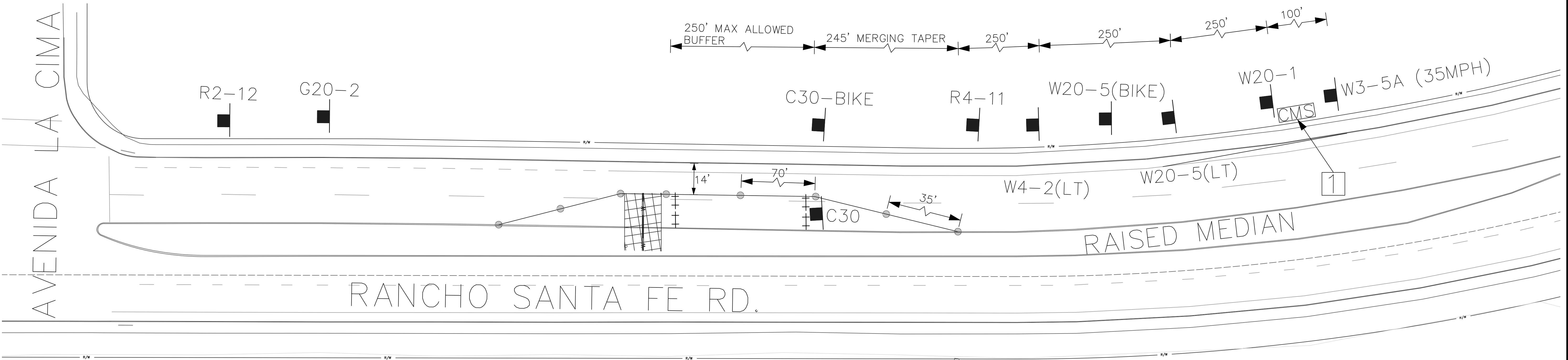
TRAFFIC CONTROL PLAN DESIGN SPEED
RANCHO SANTA FE RD: 35 MPH
AVENIDA LA CIMA: 25 MPH

TRAFFIC VOLUMES:
RANCHO SANTA FE RD: 15,258 ADT

- SPECIAL NOTES:
1. TRAFFIC SIGNAL TO BE SET TO FLASH. CONTRACTOR WILL MAINTAIN TRAFFIC WITH FLAGGERS AT EACH LEG OF INTERSECTION.
 2. CMS SIGN TO READ: "SPEED REDUCTION 35 MPH"



ENGINEERS SEAL 10/09/23 CITY OF CARLSBAD APPROVED		DRAWN BY: _____ DATE: _____ RCE: _____ EXP. _____	
SHEET TC07		CITY OF CARLSBAD ENGINEERING DEPARTMENT	
RANCHO SANTA FE RD. AND AVENIDA LA CIMA INTERSECTION		SHEETS 8	
APPROVED _____ DATE		EXPIRES _____ DATE	
DWN BY: _____ CHKD BY: _____ RVWD BY: _____		PROJECT NO. _____ DRAWING NO. _____	



SEWER LATERAL TYPICAL CLOSURE DETAIL

NOTE:
THIS TYPICAL DETAIL WILL BE USED FOR ALL LATERAL TRENCHING
ACROSS RANCHO SANTA FE RD NOT SHOWN ON PREVIOUS SHEETS. IF
WORK OCCURS ON OTHER LANE OR SIDE OF THE STREET, TRAFFIC
CONTROL WILL BE MIRRORED TO REFLECT ACCORDINGLY.

WORK HOURS:
8: 30AM – 3: 30PM

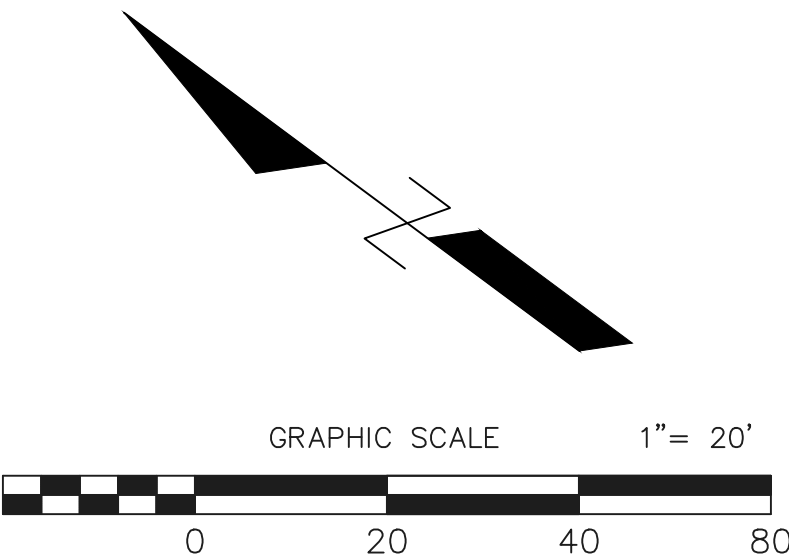
- NOTES:
- 1. CONTRACTOR TO NOTIFY ALL RESIDENTS PRIOR TO START OF WORK
 - 2. CONTRACTOR WILL PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES.
 - 3. CONTRACTOR TO COORDINATE ALL WORK WITH NCTD (BUS STOPS)
FIVE DAYS PRIOR TO START OF WORK.

TRAFFIC CONTROL PLAN DESIGN SPEED:
RANCHO SANTA FE RD: 35 MPH

SPECIAL NOTES:

1 CMS SIGN TO READ: "SPEED REDUCTION 35 MPH"

TRAFFIC VOLUMES:
RANCHO SANTA FE RD: 15,258 ADT



ENGINEERS SEAL 10/09/23 		DRAWN BY: _____ DATE: _____ RCE: _____ EXP. _____	
SHEET TC08	CITY OF CARLSBAD ENGINEERING DEPARTMENT		SHEETS 8
RANCHO SANTA FE ROAD – LATERAL TYPICAL DETAIL			
APPROVED _____ CITY OF CARLSBAD APPROVED		EXPIRES _____ DATE _____	
DWN BY: _____ CHKD BY: _____ RVWD BY: _____		PROJECT NO. _____	DRAWING NO. _____
or TRAFFIC DIVISION _____ DATE _____			