

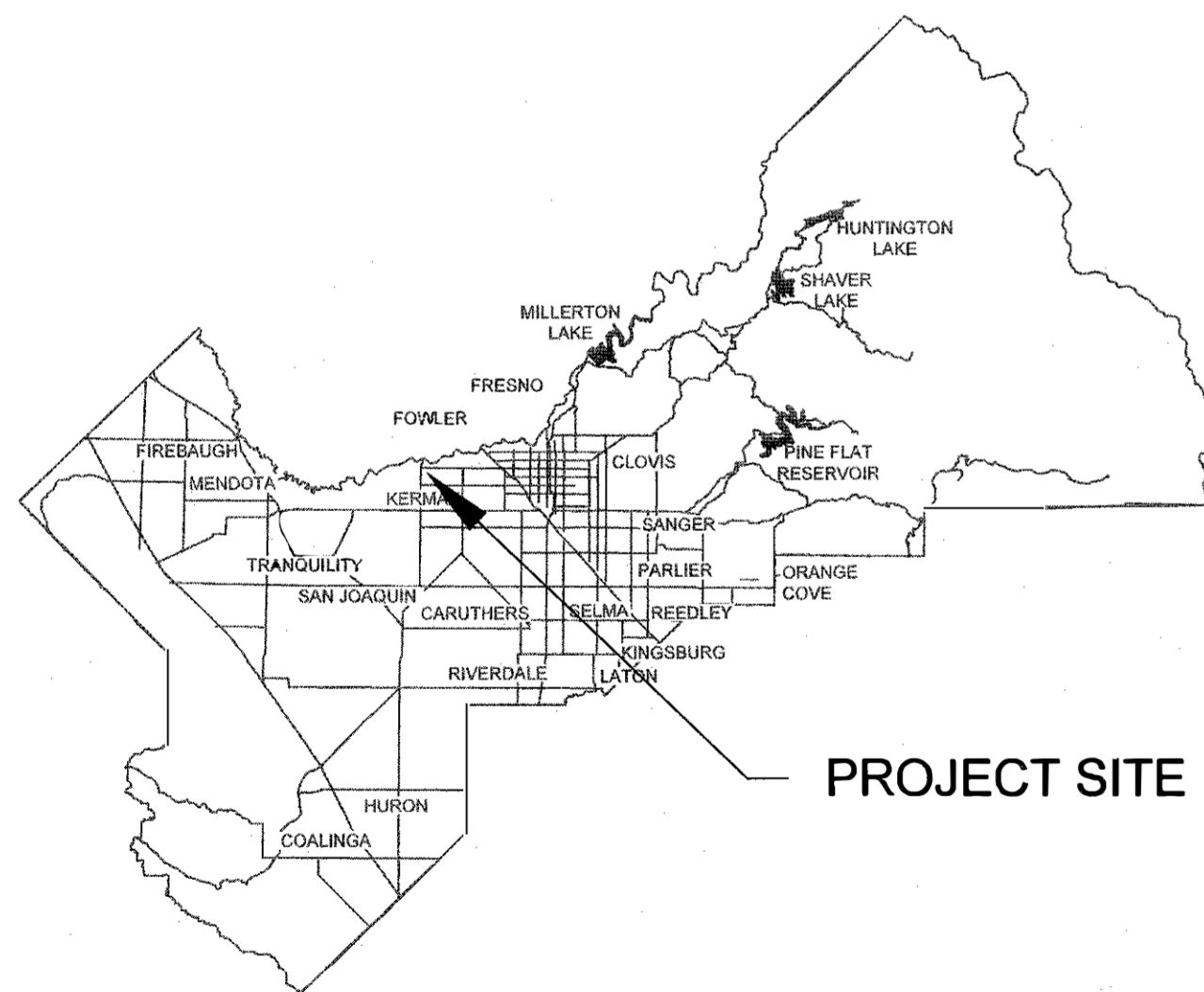
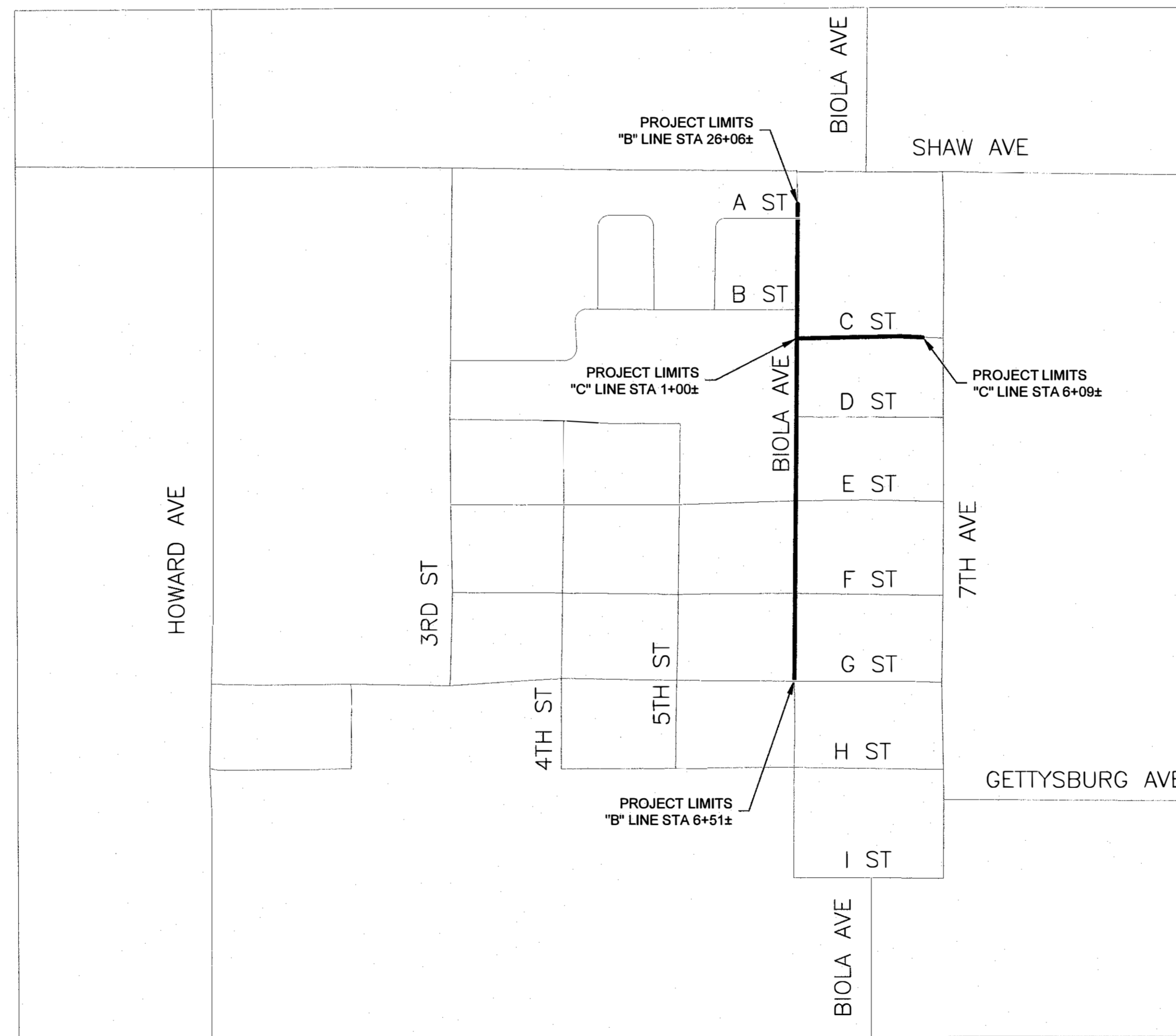
PLANS FOR CONSTRUCTION

BIOLA COMMUNITY SIDEWALK IMPROVEMENTS

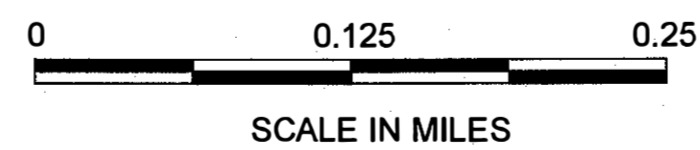
G STREET - SHAW AVE
STATE PROJECT NO. ATPL-5942(303)

INDEX OF SHEETS

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- 2 LEGEND
- 3-4 DEMO PLANS
- 5-9 UTILITY PLANS
- 10-14 PLAN AND PROFILE
- 15-17 DRIVEWAY AND SIDEWALK DETAILS
- 18-19 INTERSECTION DETAILS
- 20-21 STRIPING AND SIGNAGE PLANS
- 22-23 TYPICAL SECTIONS
- 24 CONSTRUCTION DETAILS CG & SIDEWALK
- 25 CONSTRUCTION DETAILS RAMP
- 26 CONSTRUCTION DETAILS INLETS
- 27 CONSTRUCTION DETAILS CJ, TRENCH AND WATER VALVE LID
- 28 CONSTRUCTION DETAILS MANHOLE
- 29 CONSTRUCTION DETAILS FIRE HYDRANT
- 30-31 STREET LIGHTING PLAN
- 32 ELECTRICAL DETAILS



PROJECT SITE



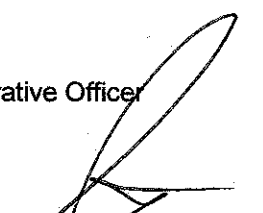
DIVISION	DESIGN	CONST	RMO	RESC
SIGNATURE	<i>MA</i>	<i>MS</i>	<i>AV</i>	
DATE	2/16/24	2-20-24	2-20-24	



DEPARTMENT OF PUBLIC WORKS AND PLANNING

Steve Brandau 2nd District
 Brian Pacheco 1st District
 Sal Quintero 3rd District
 Ernest Buddy Mendes Vice Chairman 4th District
 Nathan Magsig Chairman 5th District

Paul Nerland
 County Administrative Officer

APPROVED 
 Steven E. White, Director
 Department of Public Works and Planning

CALIFORNIA CONTRACTOR'S LICENSES REQUIRED FOR THIS PROJECT					
CLASS A, GENERAL ENGINEERING					
C-12, EARTHWORK AND PAVING					
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
11320	W1250	N/A	23/24	1	32
CONTRACT NO. 23-27-C					

RECORD DRAWING	
DATE ADOPTED	CONTRACTOR
NAME	
ADDRESS	
CITY	STATE ZIP
PHONE	
DATE AWARDED	
DATE STARTED	
DATE COMPLETED	
RESIDENT ENGINEER	
NAME	SIGNATURE
NAME	SIGNATURE

2015 CALTRANS STANDARD PLANS LIST

Table listing applicable plans with checkboxes and descriptions (e.g., A20A PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS).

GENERAL LEGEND

ABBREVIATIONS

Main legend table containing Abbreviations, Construction Symbols, Utility Notes, and Utility Symbols.

CONSTRUCTION SYMBOLS

Table of construction symbols including items like Survey Monument, Adjust Gas Manhole, R&D Bollard, etc.

GENERAL NOTES

- Notes regarding dimensions, construction standards, demolition, utility coordination, and reconstruction timing.

BASIS OF BEARINGS: THE LINE FROM FRESNO COUNTY CONTROL POINT NUMBER 1, A FLUSH SET COTTON SPINDLE AT THE INTERSECTION OF G STREET AND 7TH STREET...

BASIS OF ELEVATION: FRESNO COUNTY BENCHMARK JI 63, A FRESNO COUNTY BRASS CAP MONUMENT, 151.5' NORTH OF THE CENTERLINE OF SHAW AVENUE...

UTILITY NOTES

1. LOCATIONS OF EXISTING UNDERGROUND FACILITIES ARE APPROXIMATE EXACT DEPTH AND LOCATIONS ARE UNKNOWN. FIELD LOCATE PRIOR TO THE START OF CONSTRUCTION.

CALL UNDERGROUND SERVICE ALERT (USA) 811

UTILITY SYMBOLS

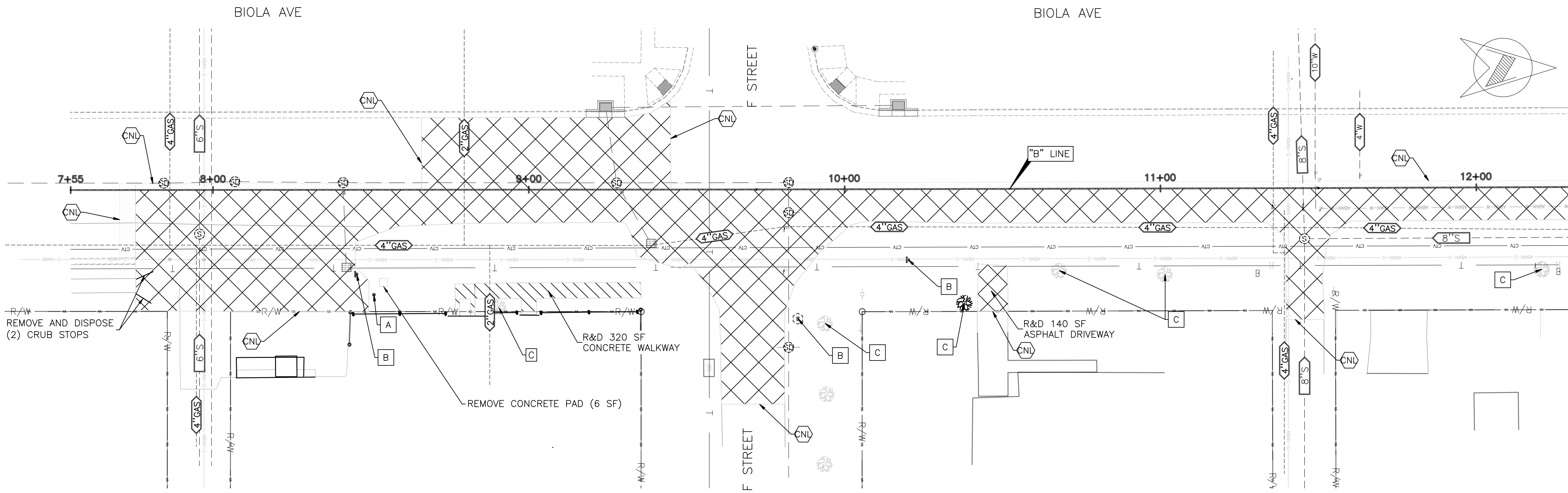
Table of utility symbols for existing and proposed facilities like Stand Pipe, MH-Storm Drain, Gasoline Filler, etc.

Table for Record Drawing with columns for Date, Resident Engineer, and Date.

Scale section with signature, date (2-15-24), and title (SUPERVISING ENGINEER).

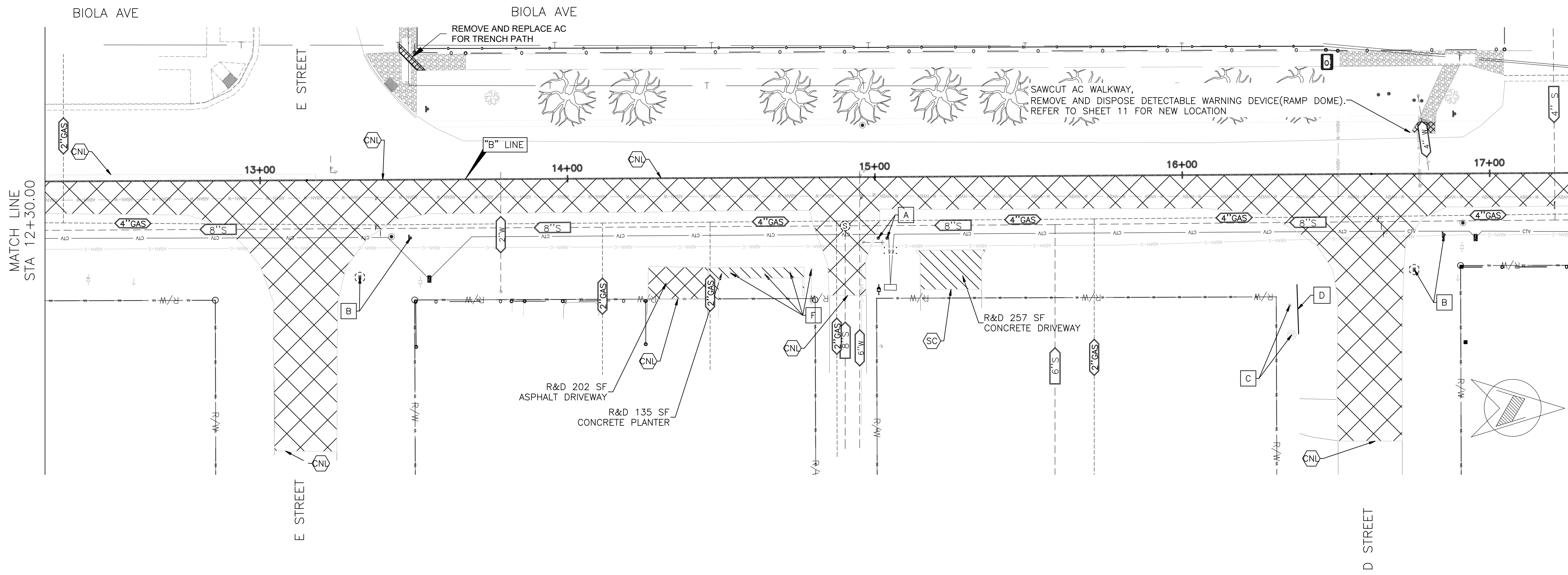
Project information including Biola Community Sidewalk Improvements, G Street - Shaw Ave, and project number W1250.

Department of Public Works and Planning logo and legend information (Drawing No. 11320, Sheet No. 2, Total 32).



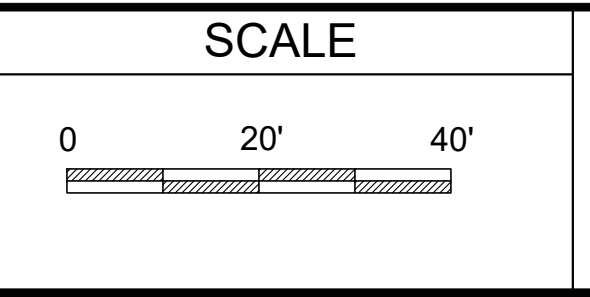
- LEGEND:**
- A REMOVE AND DISPOSE BOLLARDS.
 - B REMOVE AND REPLACE SIGN AND POST. SEE STRIPPING PLAN FOR NEW LOCATION.
 - C REMOVE AND DISPOSE TREES.
 - D REMOVE AND DISPOSE FENCE.
 - E REMOVE AND DISPOSE CONCRETE FOUNDATION PEDESTAL
 - F CLEARING AND GRUBBING
 - CNL CUT NEAT LINE
 - "B" LINE BIOLA AVENUE CENTERLINE ALIGNMENT
 - "C" LINE C STREET CENTERLINE ALIGNMENT
 - DEMO ASPHALT
 - DEMO CONCRETE/FENCE

- NOTES:**
- PROTECT PROPERTY CORNER MONUMENTS.
 - REFER TO UTILITY PLANS, SHEETS 5 THROUGH 9 FOR UTILITIES AFFECTED BY PROJECT.
 - REFER TO PLAN AND PROFILE, SHEETS 10 THROUGH 14 FOR "CNL" STATIONING AND OFFSET.
 - DEMO ASPHALT AREA HATCHED AS DEMO HMA DEPICTS THE SECTION OF EXISTING ROAD TO BE REMOVED. THIS AREA DOES NOT REPRESENT THE AREA TO CALCULATE THE TOTAL VOLUME OF ROADWAY EXCAVATION OF ROADWAY REQUIRED.

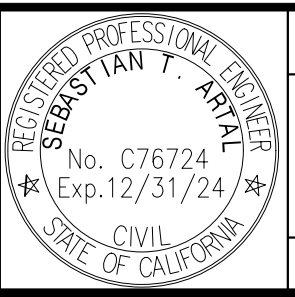


DESIGNED: DK	DATE: 2-15-24
DRAWN: EC	DATE: 2-15-24
CHECKED: S. ARTAL	DATE: 2-15-24

RECORD DRAWING	
DATE	DATE
RESIDENT ENGINEER	



SUPERVISING ENGINEER



PROJECT
BIOLA COMMUNITY SIDEWALK IMPROVEMENTS

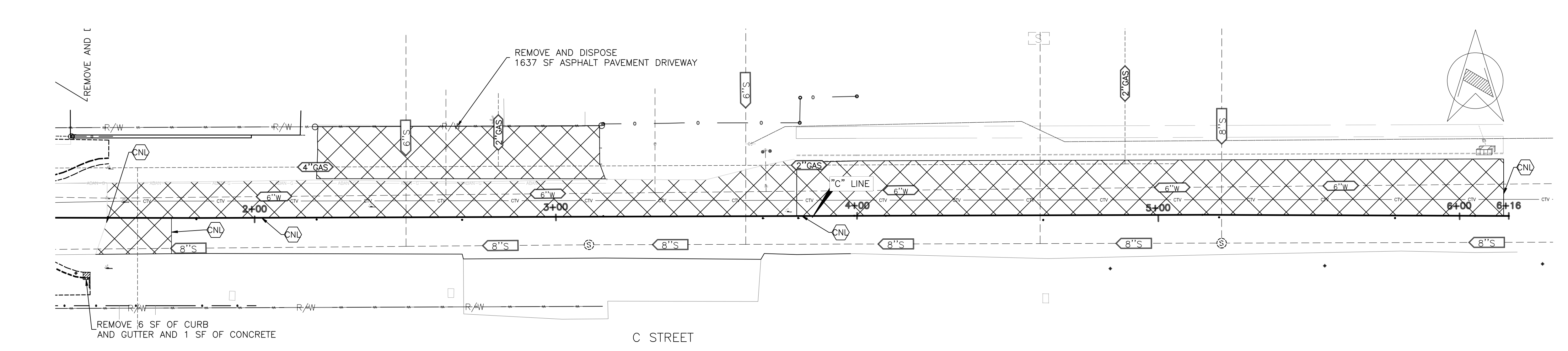
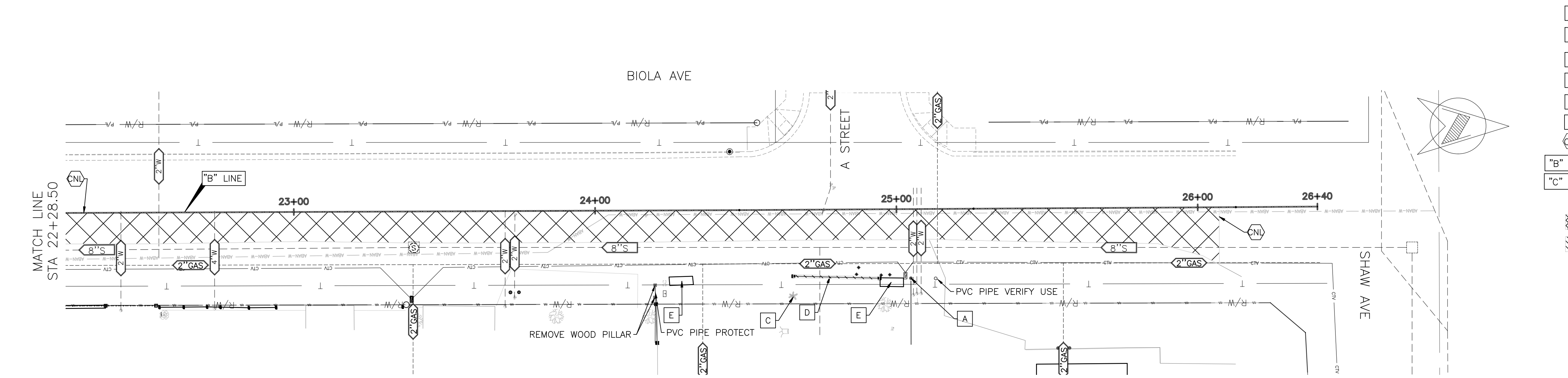
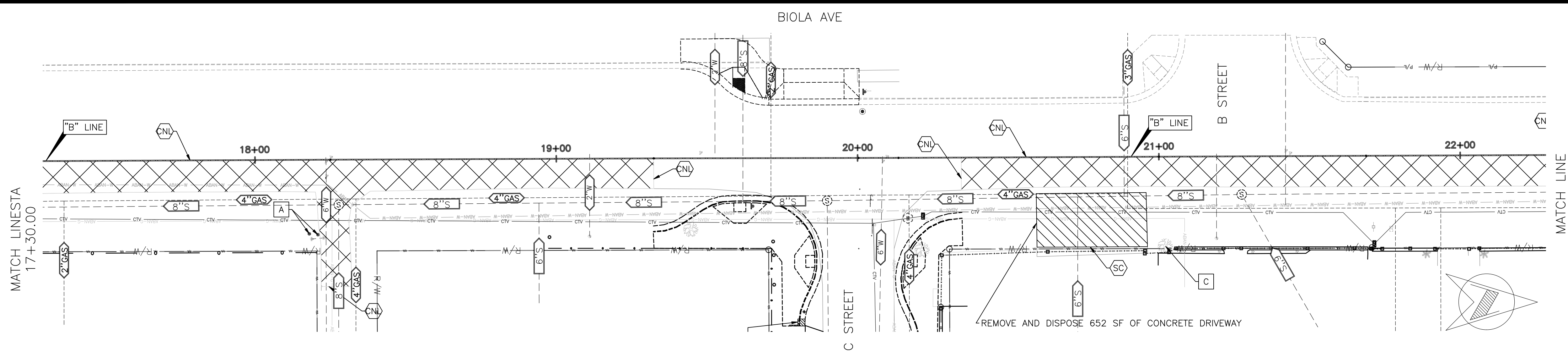
ROAD NO. W1250 BRIDGE NO. N/A



DEPARTMENT OF PUBLIC WORKS AND PLANNING
DEMO PLAN

DRAWING NO. 11320 SHEET NO. 3 TOTAL 32

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



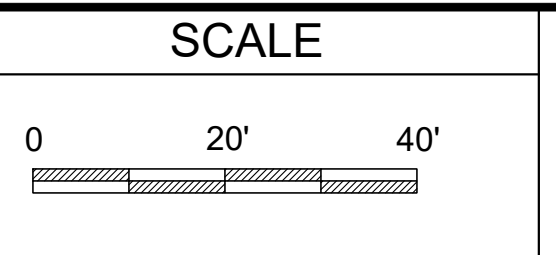
- LEGEND:**
- [A] REMOVE AND DISPOSE BOLLARDS.
 - [B] REMOVE AND REPLACE SIGN AND POST. SEE STRIPPING PLAN FOR NEW LOCATION.
 - [C] REMOVE AND DISPOSE TREES.
 - [D] REMOVE AND DISPOSE FENCE.
 - [E] REMOVE AND DISPOSE CONCRETE FOUNDATION PEDESTAL
 - [F] CLEARING AND GRUBBING
 - [CNL] CUT NEAT LINE
 - ["B" LINE] BIOLA AVENUE CENTERLINE ALIGNMENT
 - ["C" LINE] C STREET CENTERLINE ALIGNMENT

- [Hatched] DEMO ASPHALT
- [Cross-hatched] DEMO CONCRETE/FENCE

- NOTES:**
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DESIGNED: DK	DATE: 2-15-24
DRAWN: EC	DATE: 2-15-24
CHECKED: S. ARTAL	DATE: 2-15-24

RECORD DRAWING	
RESIDENT ENGINEER	DATE



[Signature]
SUPERVISING ENGINEER
DATE: 2-15-24

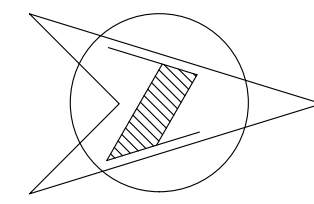


PROJECT
BIOLA COMMUNITY SIDEWALK IMPROVEMENTS
ROAD NO. W1250 BRIDGE NO. N/A



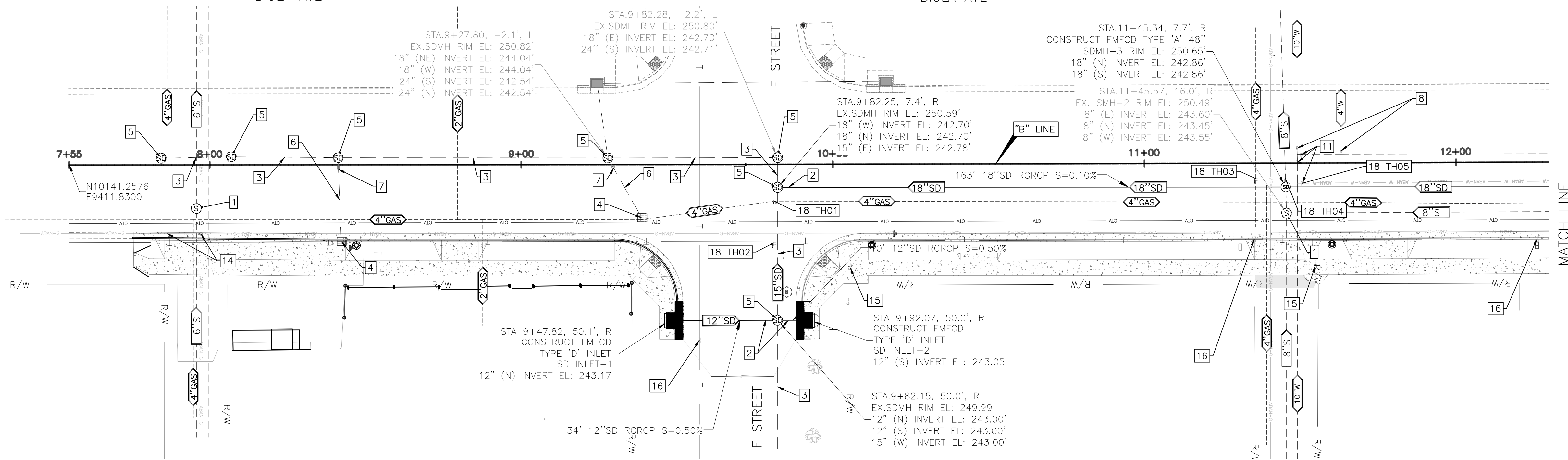
DEPARTMENT OF PUBLIC WORKS AND PLANNING
DEMO PLAN
DRAWING NO. 11320 SHEET NO. 4 TOTAL 32

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

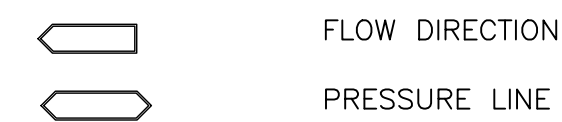


BIOLA AVE

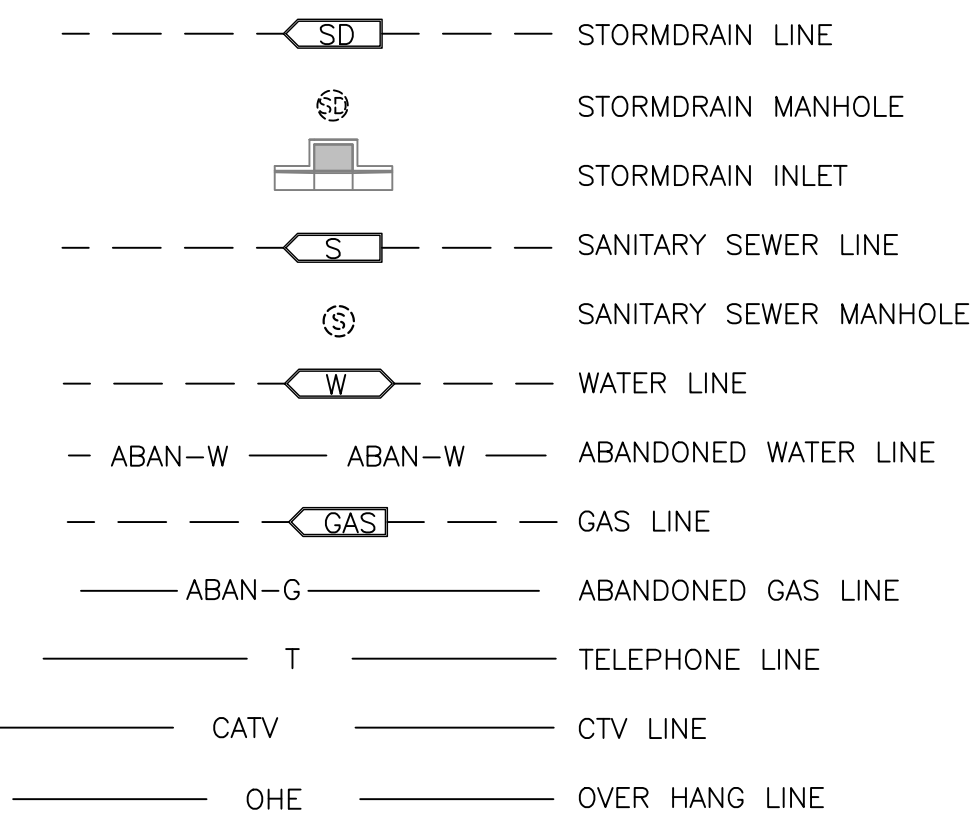
BIOLA AVE



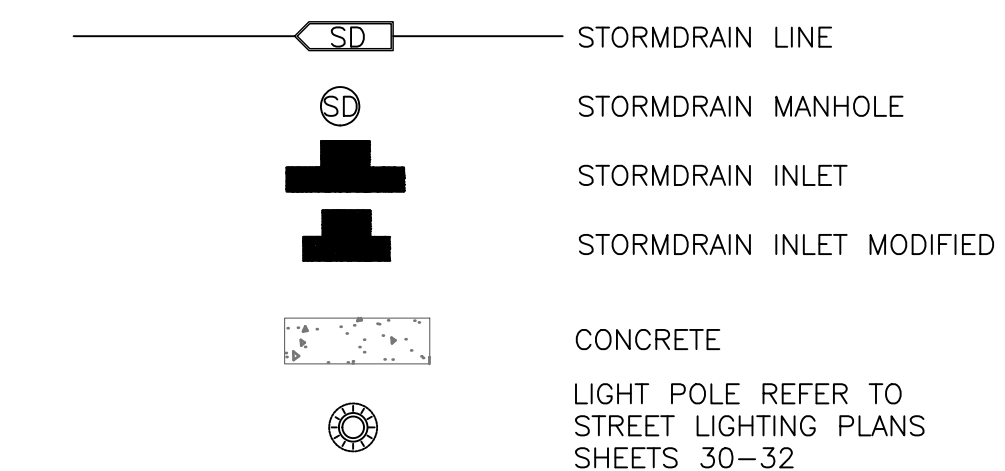
LEGEND:



EXISTING



PROPOSED



NOTES:

ALL STATIONS ON THIS SHEET REFERENCE B LINE

SEWER:

1 ADJUST SEWER MANHOLE LID TO GRADE

STORM DRAIN:

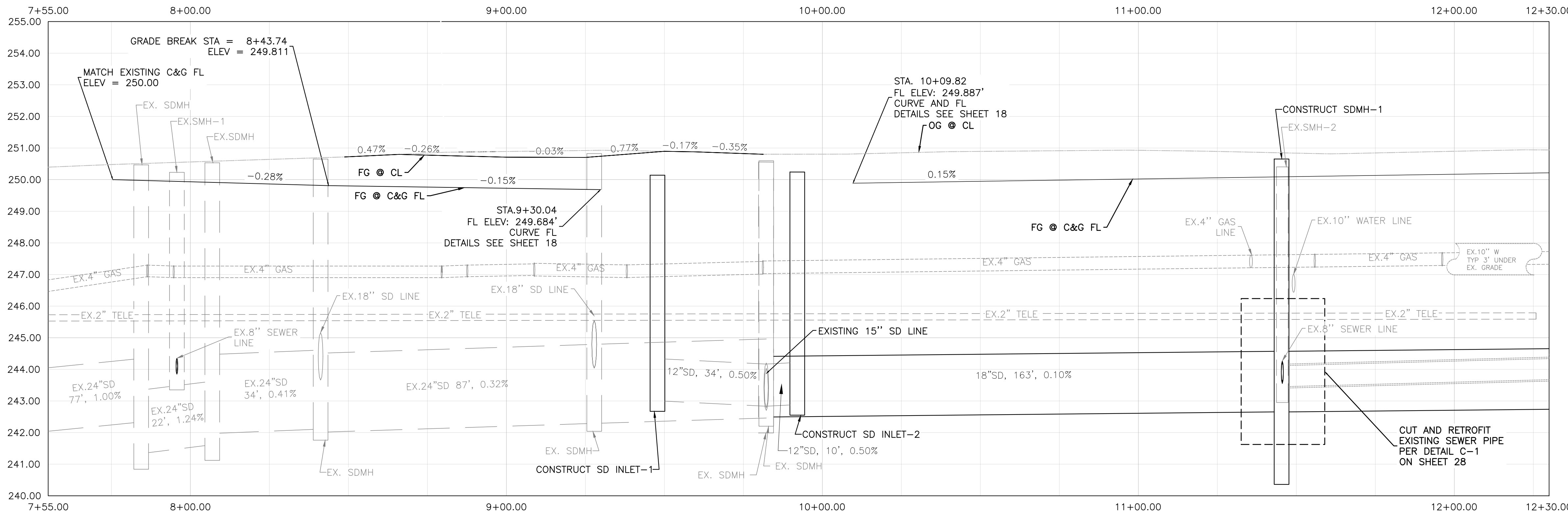
- 2 EX. RCP PIPE STUB OUT, INSTALL CONCRETE COLLAR PER FMFCD SEE G-3 SHEET 27 OF THIS SHEET
3 PROTECT IN PLACE EXISTING STORM DRAIN PIPE REMOVE & DISPOSE STORM DRAIN INLET
4 ADJUST STORM DRAIN MANHOLE LID TO GRADE REMOVE & DISPOSE CONCRETE STORM DRAIN PIPE
5 SAWCUT PIPE AT INLET STRUCTURE AND GROUT END OF PIPE

WATER:

- 8 PROTECT IN PLACE WATER VALVES LID
9 PROTECT IN PLACE HYDRANT
10 RELOCATE HYDRANT REFER TO SHEET 29
11 ADJUST WATER VALVE LID TO GRADE
12 ADJUST WATER METER BOX TO GRADE
13 PROTECT IN PLACE WATER METER BOX

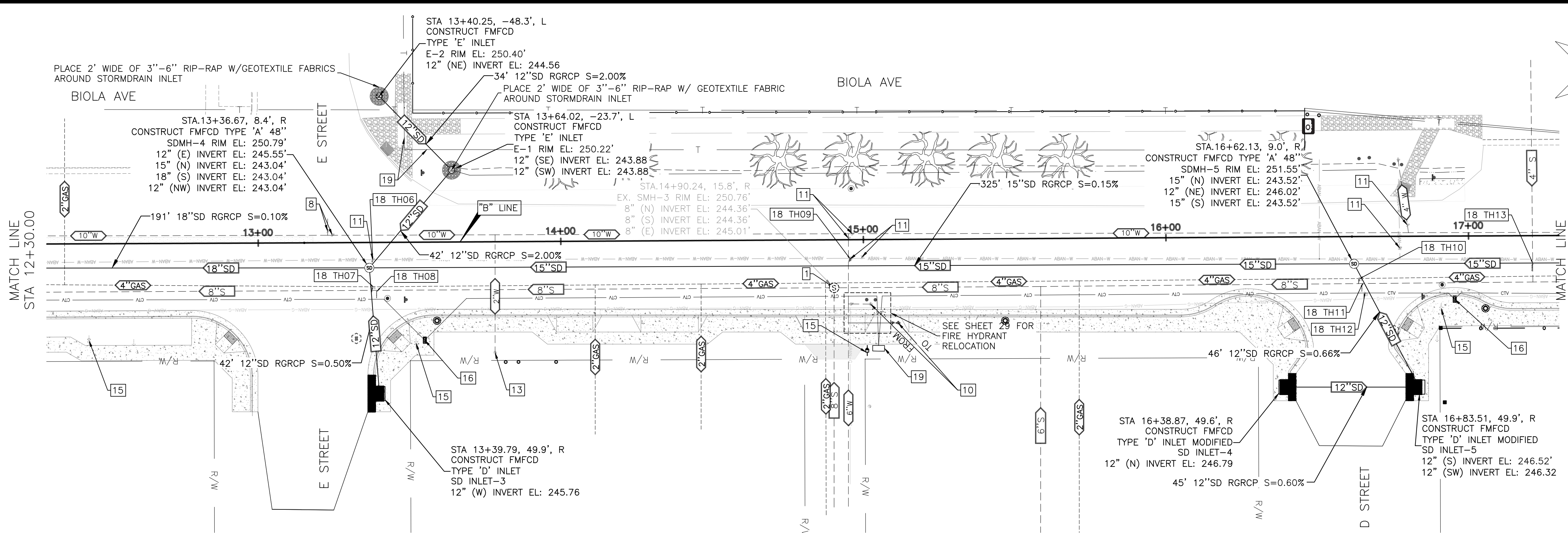
DRY UTILITIES:

- 14 REMOVE AND SALVAGE ABANDON GAS LIDS TO PG&E
15 PROTECT IN PLACE POWER POLE (AND GUY WIRE IF APPLICABLE)
16 ADJUST/RELOCATE BY OTHERS
17 PROTECT IN PLACE UTILITY VAULT
18 THXX REFER TO POTHOLE REPORT - SUPPLEMENTAL INFORMATION
19 PROTECT IN PLACE



LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD LOCATE TO DETERMINE THE EXACT DEPTH AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION.

Project information block containing:
- Record Drawing title block with fields for Date, Resident Engineer, and Date.
- Scale: H: 0 20' 40', V: 0 2' 4'.
- Signature of Supervising Engineer and Date 2-15-24.
- Project Name: BIOLA COMMUNITY SIDEWALK IMPROVEMENTS.
- Department: DEPARTMENT OF PUBLIC WORKS AND PLANNING.
- Drawing Title: UTILITY & STORM DRAIN PLANS.
- Drawing No. 11320, Sheet No. 5, Total 32.



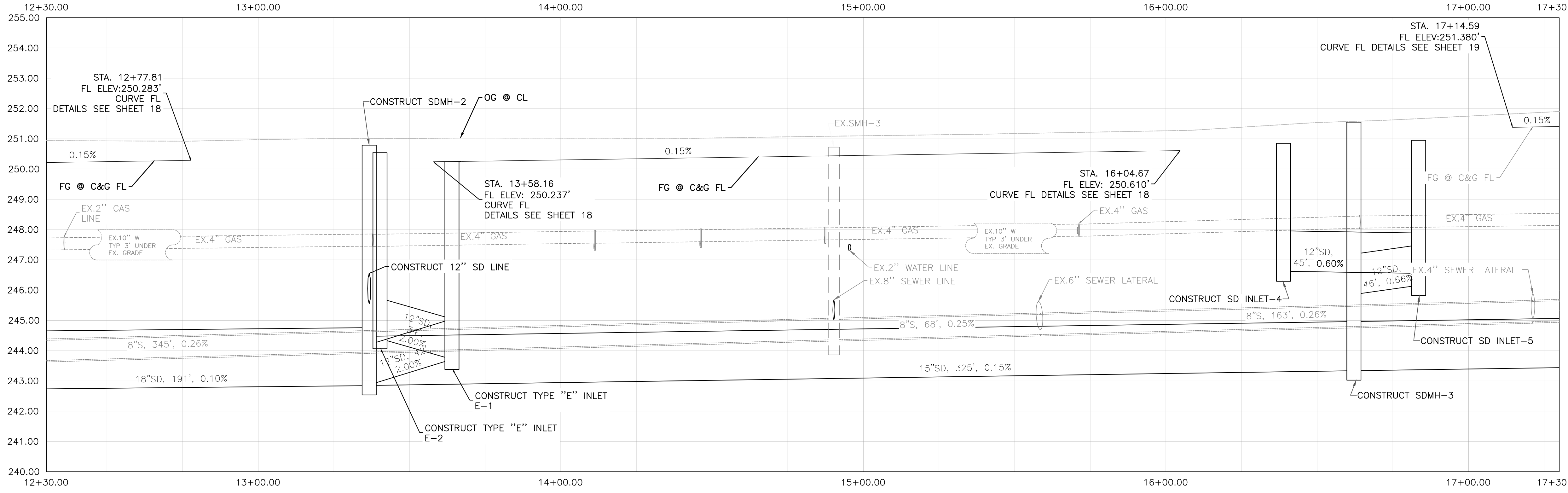
LEGEND:

EXISTING

- FLOW DIRECTION
- PRESSURE LINE
- STORM DRAIN LINE
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- WATER LINE
- ABANDONED WATER LINE
- GAS LINE
- ABANDONED GAS LINE
- TELEPHONE LINE
- CTV LINE
- OVER HANG LINE

PROPOSED

- STORM DRAIN LINE
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- STORM DRAIN INLET MODIFIED
- CONCRETE
- LIGHT POLE REFER TO STREET LIGHTING PLANS SHEETS 30-32



- NOTES:**
- ALL STATIONS ON THIS SHEET REFERENCE B LINE
- SEWER:**
- 1 ADJUST SEWER MANHOLE LID TO GRADE
- STORM DRAIN:**
- 2 EX. RCP PIPE STUB OUT, INSTALL CONCRETE COLLAR PER FMCD SEE G-3 SHEET 27 OF THIS SHEET PROTECT IN PLACE EXISTING STORM DRAIN PIPE
 - 3 REMOVE & DISPOSE STORM DRAIN INLET
 - 4 ADJUST STORM DRAIN MANHOLE LID TO GRADE
 - 5 REMOVE & DISPOSE CONCRETE STORM DRAIN PIPE
 - 6 SAWCUT PIPE AT INLET STRUCTURE AND GROUT END OF PIPE
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 - 18 THXX REFER TO POTHOLE REPORT - SUPPLEMENTAL INFORMATION
 - 19 PROTECT IN PLACE

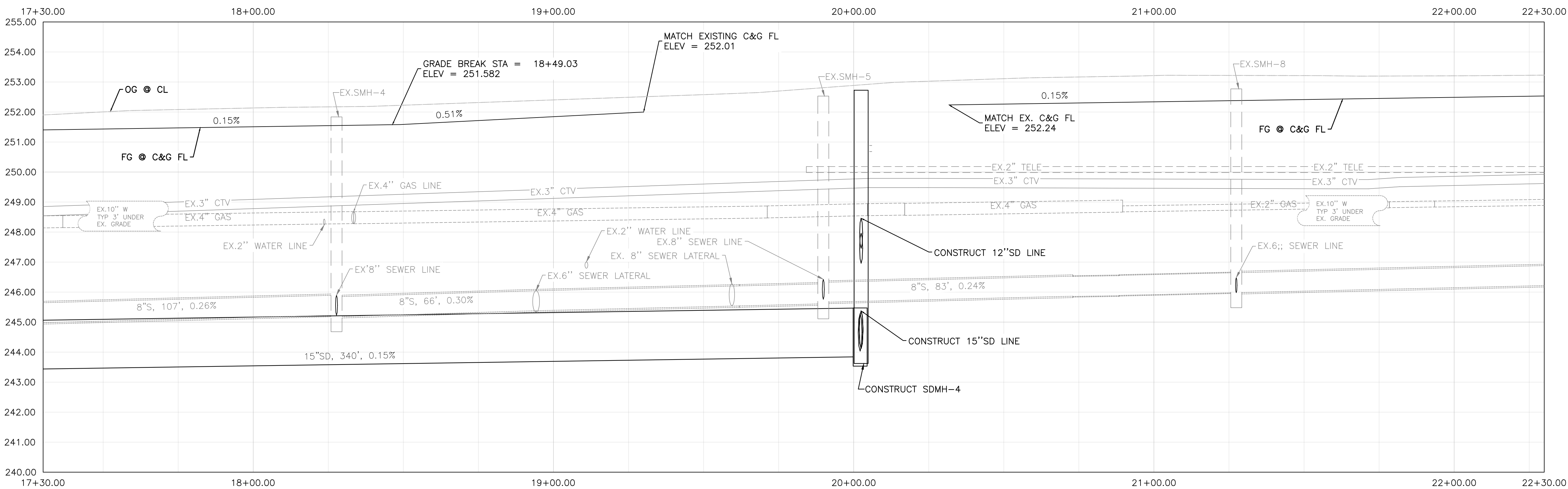
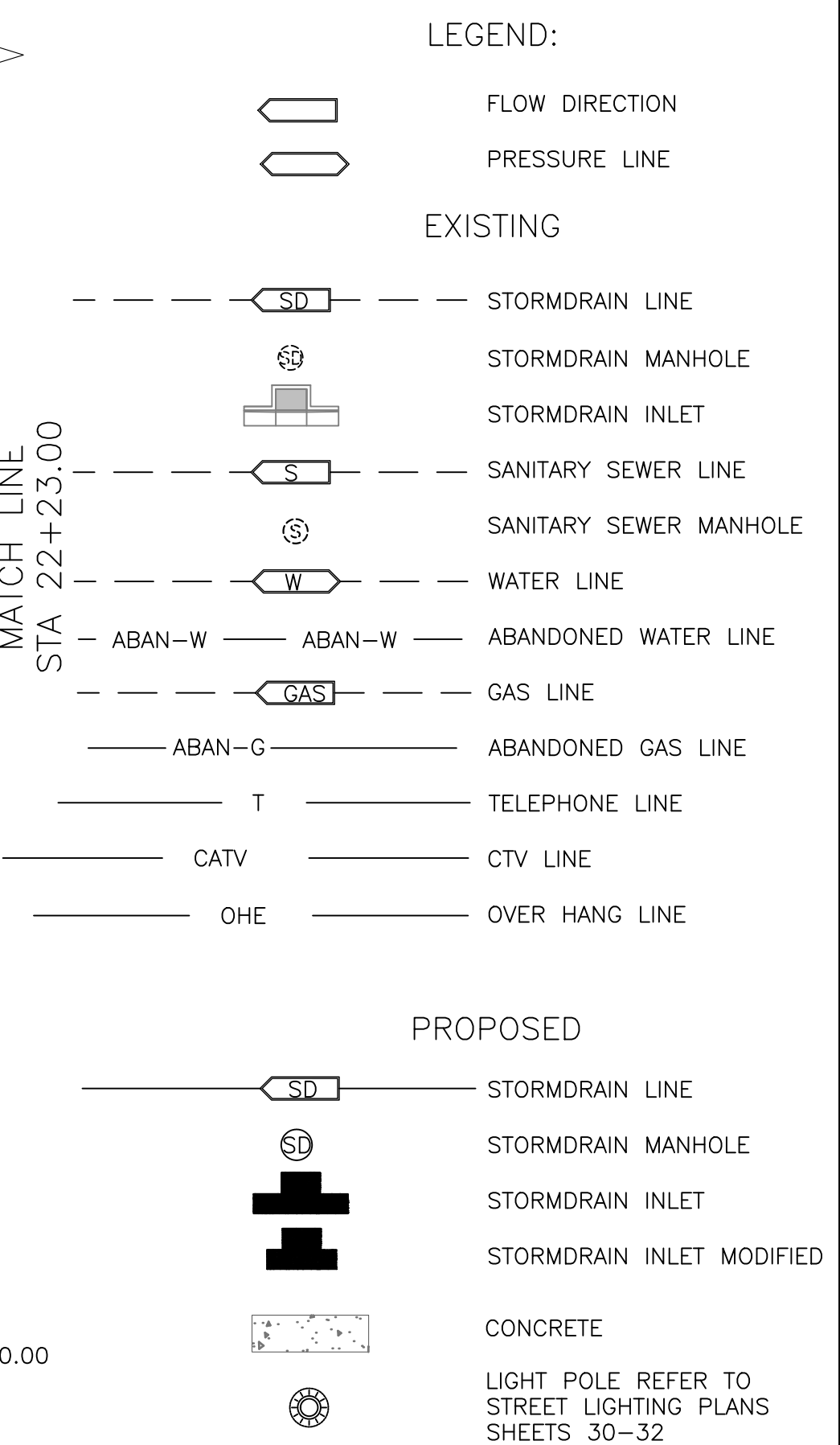
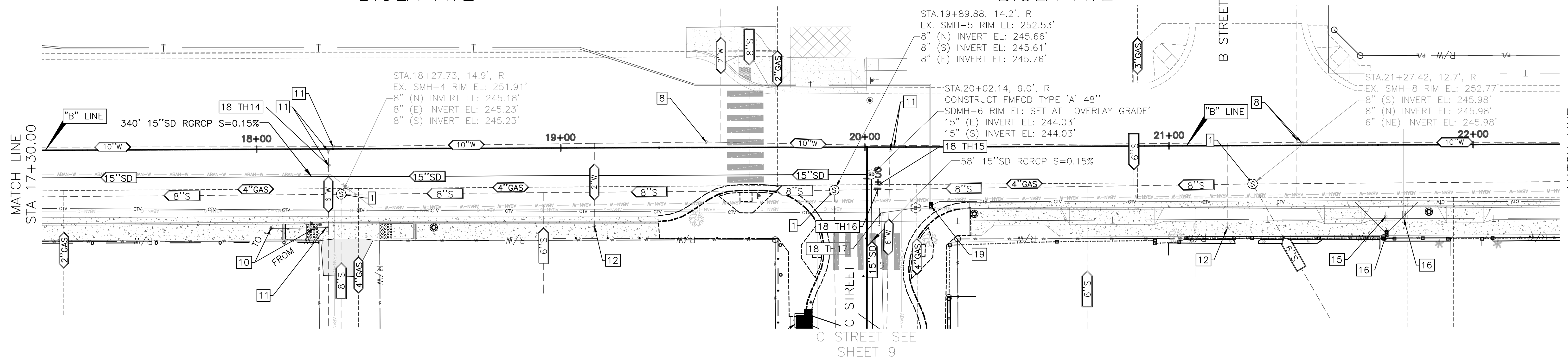
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DESIGNED: DK	DATE: 2-15-24	RECORD DRAWING	SCALE	SUPERVISING ENGINEER	PROJECT BIOLA COMMUNITY SIDEWALK IMPROVEMENTS	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: EC	DATE: 2-15-24	RESIDENT ENGINEER	H: 0 20' 40' V: 0 2' 4'	2-15-24 DATE	ROAD NO. W1250 BRIDGE NO. N/A	UTILITY & STORM DRAIN PLANS
CHECKED: S. ARTAL	DATE: 2-15-24				DRAWING NO. 11320 SHEET NO. 6 TOTAL 32	

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

BIOLA AVE

BIOLA AVE

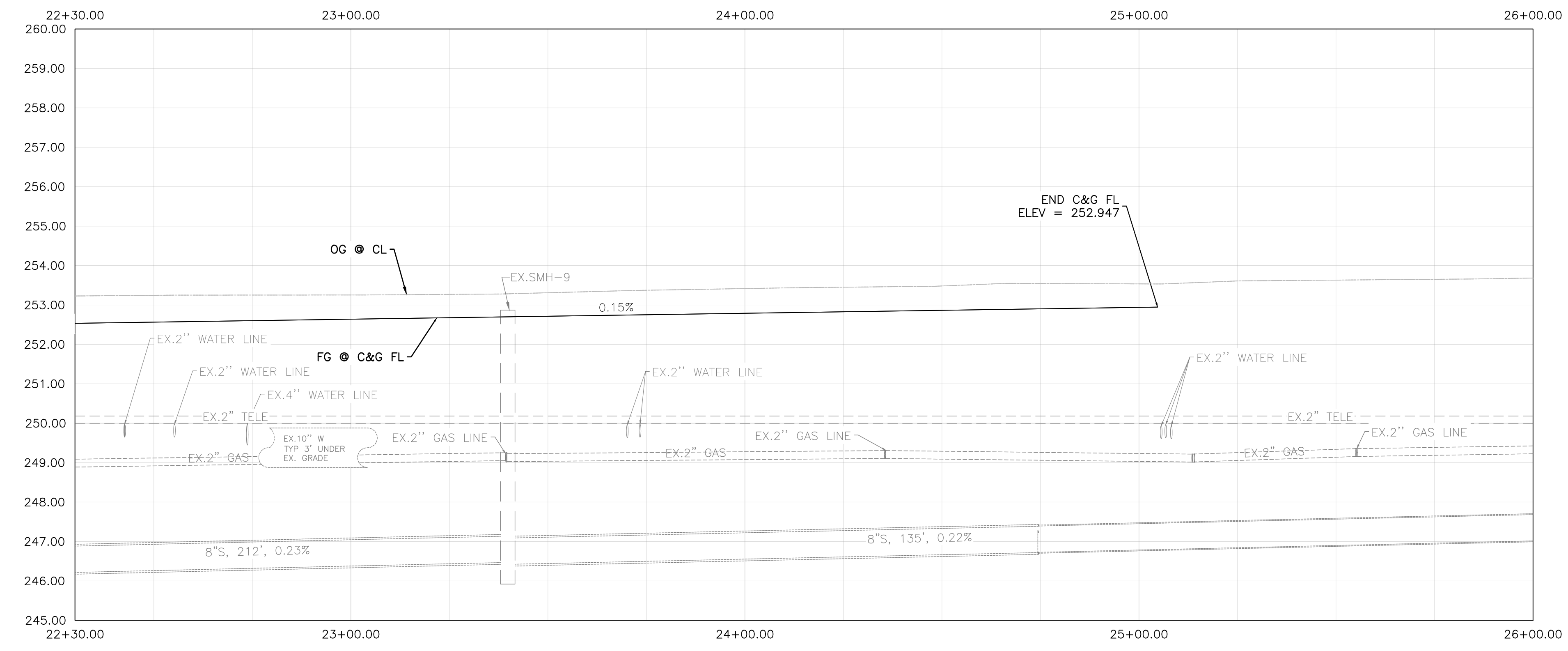
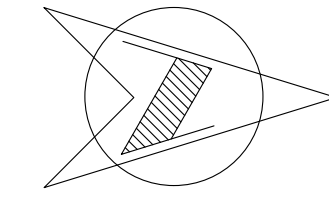
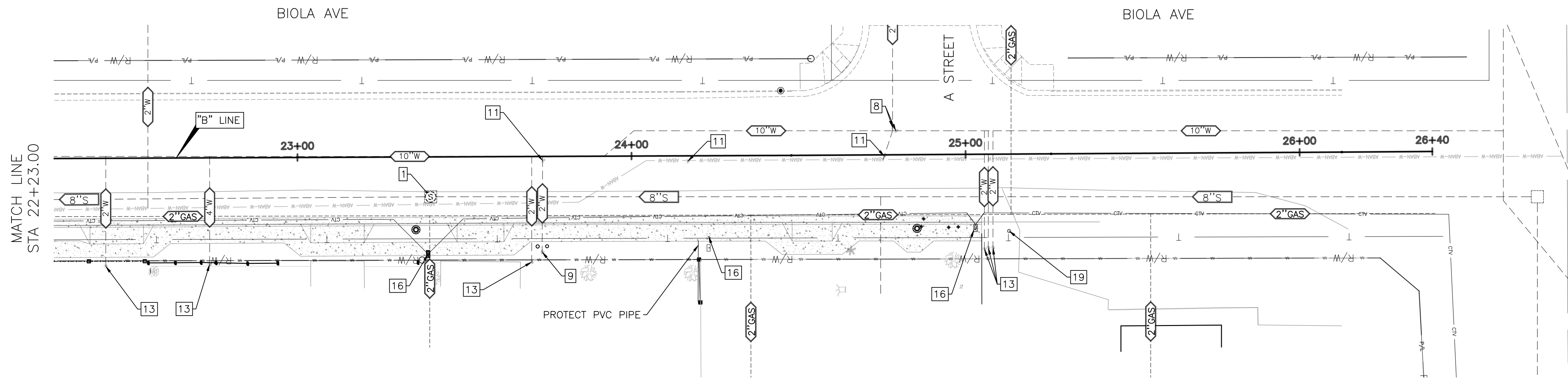


- NOTES:**
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LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD LOCATE TO DETERMINE THE EXACT DEPTH AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION.

DESIGNED: DK		DATE: 2-15-24	RECORD DRAWING		SCALE		 SUPERVISING ENGINEER	 SEBASTIAN T. ARTAL	PROJECT		 CITY OF FRESNO	DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DRAWN: EC		DATE: 2-15-24	RESIDENT ENGINEER		H: 0 20' 40' V: 0 2' 4'				BIOLA COMMUNITY SIDEWALK IMPROVEMENTS			UTILITY & STORM DRAIN PLANS	
CHECKED: S. ARTAL		DATE: 2-15-24							ROAD NO. W1250			BRIDGE NO. N/A	
									DATE: 2-15-24			DRAWING NO. 11320	

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



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NOTES:

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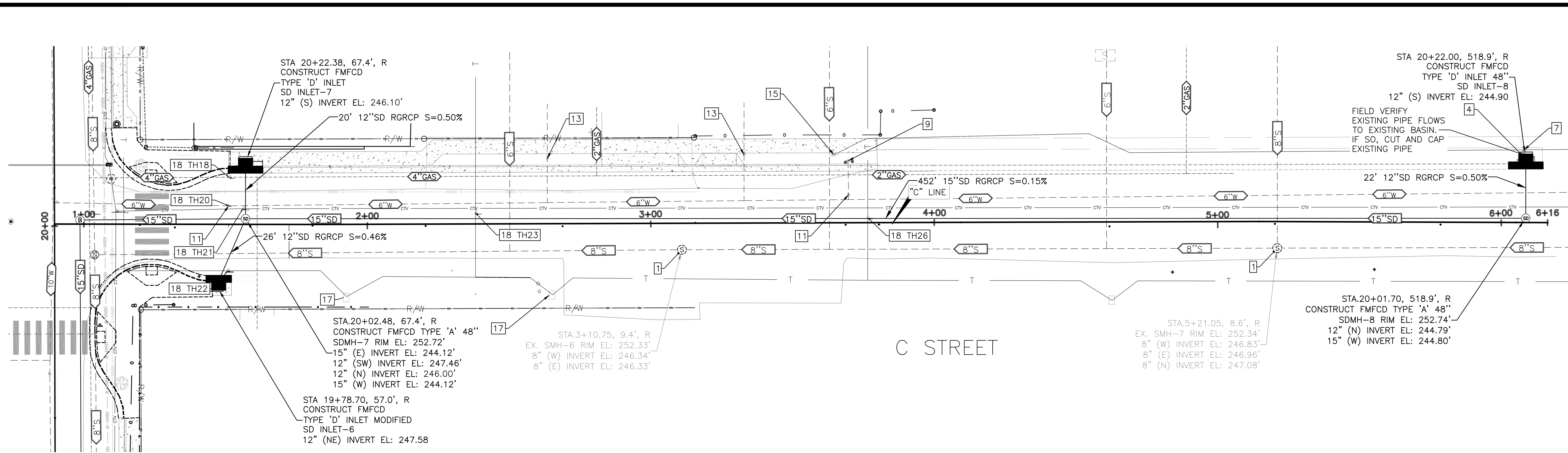
- SEWER:**
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 - 3 PROTECT IN PLACE EXISTING STORMDRAIN PIPE
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LEGEND:

- EXISTING**
- FLOW DIRECTION
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 - STORMDRAIN INLET
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- PROPOSED**
- STORMDRAIN LINE
 - STORMDRAIN MANHOLE
 - STORMDRAIN INLET
 - STORMDRAIN INLET MODIFIED
 - CONCRETE
 - LIGHT POLE REFER TO STREET LIGHTING PLANS SHEETS 30-32

	DATE	RECORD DRAWING	SCALE	SUPERVISING ENGINEER		PROJECT BIOLA COMMUNITY SIDEWALK IMPROVEMENTS		DEPARTMENT OF PUBLIC WORKS AND PLANNING UTILITY & STORM DRAIN PLANS
DESIGNED: DK	2-15-24	RESIDENT ENGINEER	H: 0 20' 40' V: 0 2' 4'	2-15-24		ROAD NO. W1250	BRIDGE NO. N/A	DRAWING NO. 11320
DRAWN: EC	2-15-24			DATE				SHEET NO. 8
CHECKED: S. ARTAL	2-15-24							TOTAL 32

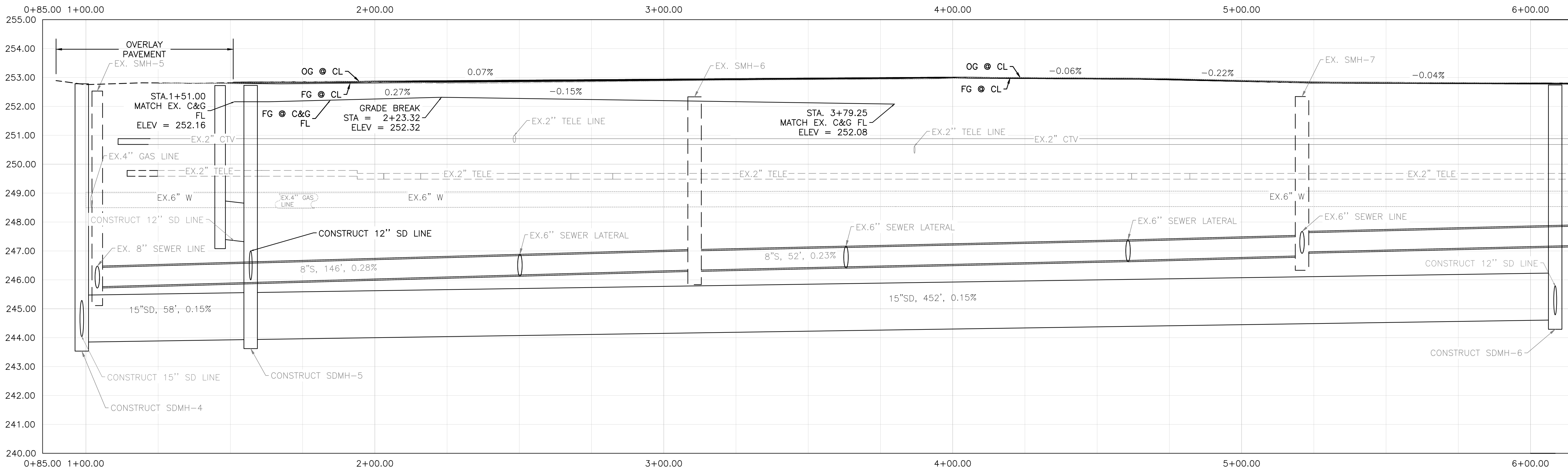
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



- LEGEND:**
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 - STORMDRAIN INLET
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 - STORMDRAIN INLET MODIFIED
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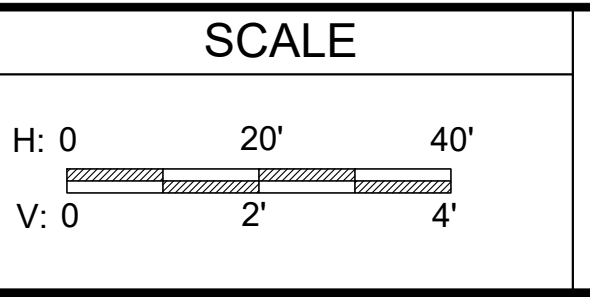
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NOTES:



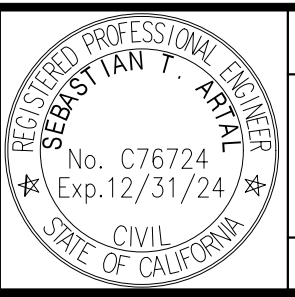
- ALL STATIONS ON THIS SHEET REFERENCE C LINE
- SEWER:**
- 1 ADJUST SEWER MANHOLE LID TO GRADE
 - 2 EX. RCP PIPE STUB OUT, INSTALL CONCRETE COLLAR PER FMFCD SEE G-3 SHEET 27 OF THIS SHEET
 - 3 PROTECT IN PLACE EXISTING STORMDRAIN PIPE
 - 4 REMOVE & DISPOSE STORM DRAIN INLET
 - 5 ADJUST STORM DRAIN MANHOLE LID TO GRADE
 - 6 REMOVE & DISPOSE CONCRETE STORM DRAIN PIPE SAWCUT PIPE AT INLET STRUCTURE AND GROUT END OF PIPE
- WATER:**
- 8 PROTECT IN PLACE WATER VALVES LID
 - 9 PROTECT IN PLACE HYDRANT
 - 10 RELOCATE HYDRANT REFER TO SHEET 29
 - 11 ADJUST WATER VALVE LID TO GRADE
 - 12 ADJUST WATER METER BOX TO GRADE
 - 13 PROTECT IN PLACE WATER METER BOX
- DRY UTILITIES:**
- 14 REMOVE AND SALVAGE ABANDON GAS LIDS TO PG&E
 - 15 PROTECT IN PLACE POWER POLE (AND GUY WIRE IF APPLICABLE)
 - 16 ADJUST/RELOCATE BY OTHERS
 - 17 PROTECT IN PLACE UTILITY VAULT
 - 18 THXX REFER TO POT HOLE REPORT - SUPPLEMENTAL INFORMATION
 - 19 PROTECT IN PLACE

DATE		RECORD DRAWING	
DESIGNED: DK	2-15-24	RESIDENT ENGINEER	DATE
DRAWN: EC	2-15-24		
CHECKED: S. ARTAL	2-15-24		



SUPERVISING ENGINEER

2-15-24 DATE



PROJECT

BIOLA COMMUNITY SIDEWALK IMPROVEMENTS

ROAD NO. W1250 BRIDGE NO. N/A

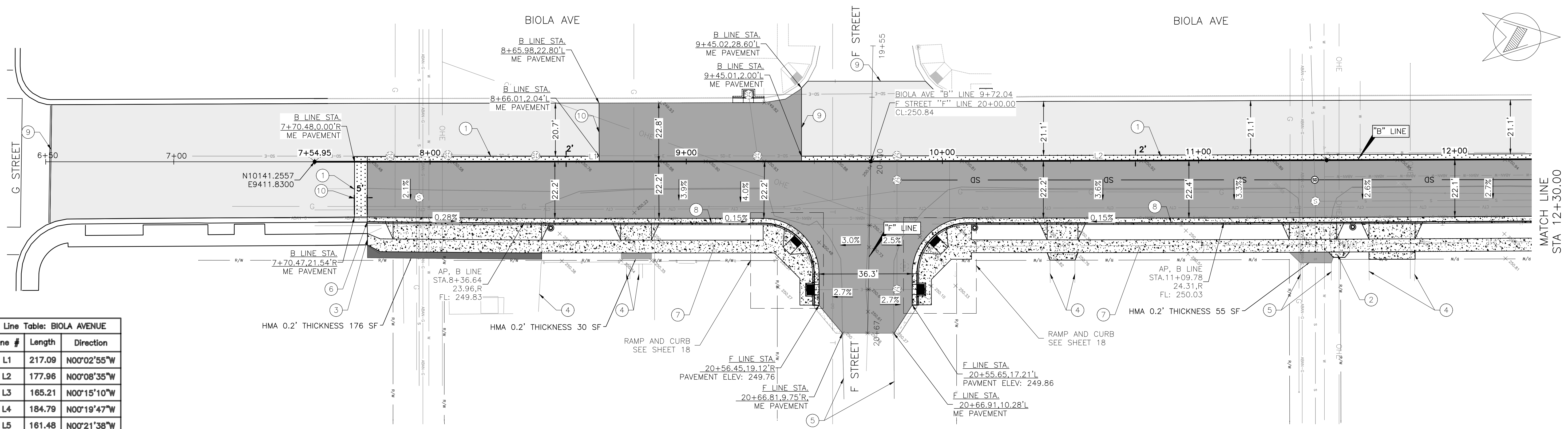


DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY & STORM DRAIN PLANS

DRAWING NO. 11320 SHEET NO. 9 TOTAL 32

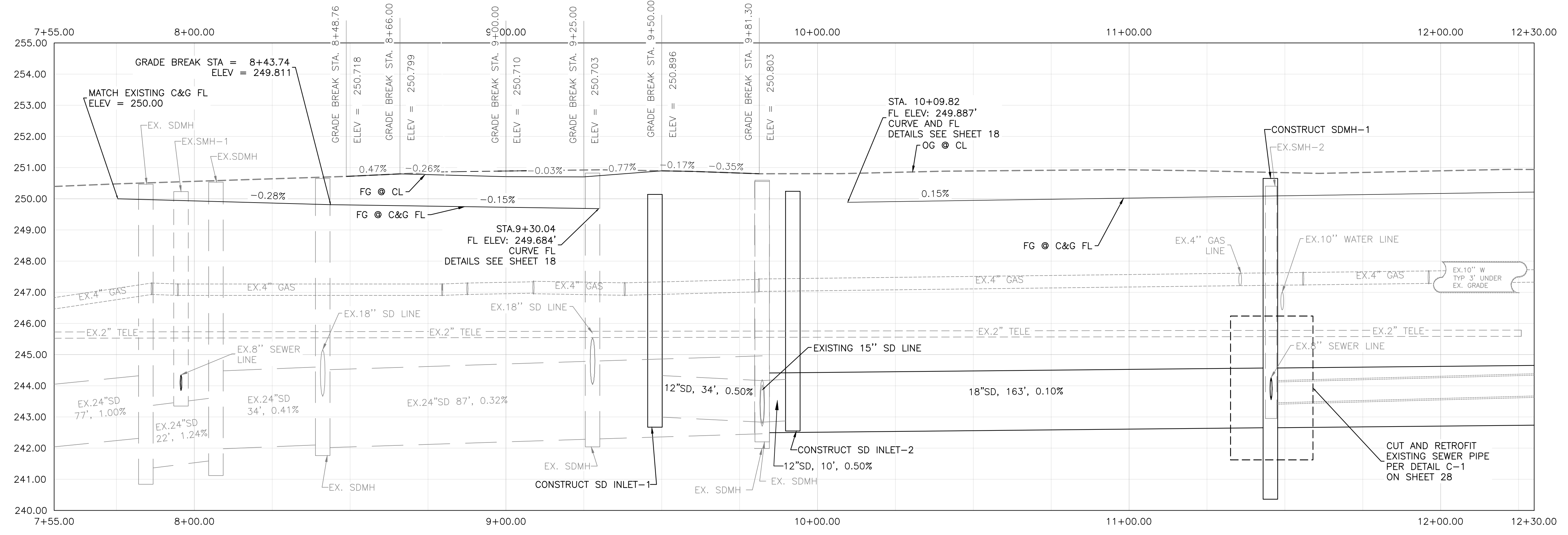
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



Line Table: BIOLA AVENUE

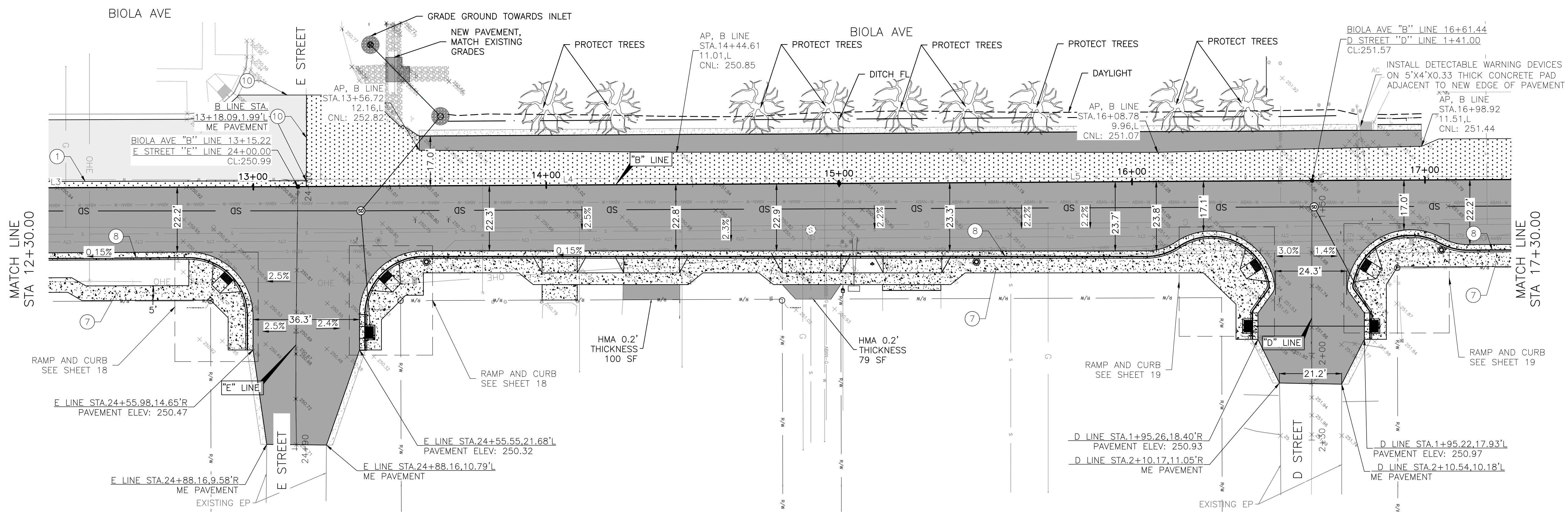
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L1	217.09	N00°02'55"W
L2	177.96	N00°08'35"W
L3	165.21	N00°15'10"W
L4	184.79	N00°19'47"W
L5	161.48	N00°21'38"W
L6	163.52	N00°16'53"W
L7	107.36	N00°14'07"W
L8	81.20	N00°07'15"W
L9	86.43	N00°15'15"W
L10	68.76	N00°15'14"W
L11	279.10	N00°14'26"W
L12	77.75	N00°20'47"W
L13	87.04	N00°20'21"W

- NOTES:
- PROTECT SURVEY MONUMENTS IN PLACE
- SEE SHEETS 15 - 19, AND SHEET 24 FOR DRIVEWAY AND SIDEWALK CONSTRUCTION DETAILS.
- ① GRIND AND OVERLAY 0.15" THICKNESS
 - ② SIDEWALK AROUND POWER POLE PROVIDE 4' MIN WIDTH
 - ③ MATCH EXISTING SIDEWALK
 - ④ EXISTING DRIVEWAY
 - ⑤ EXISTING EP
 - ⑥ MATCH EXISTING CURB AND GUTTER
 - ⑦ CONSTRUCT SIDEWALK PER P-1 SEE SHEET 24
 - ⑧ CONSTRUCT CURB AND GUTTER PER P-5 SEE SHEET 24
 - ⑨ SLURRY SEAL BEGIN
 - ⑩ SLURRY SEAL END
- ▲ ANGLE POINT

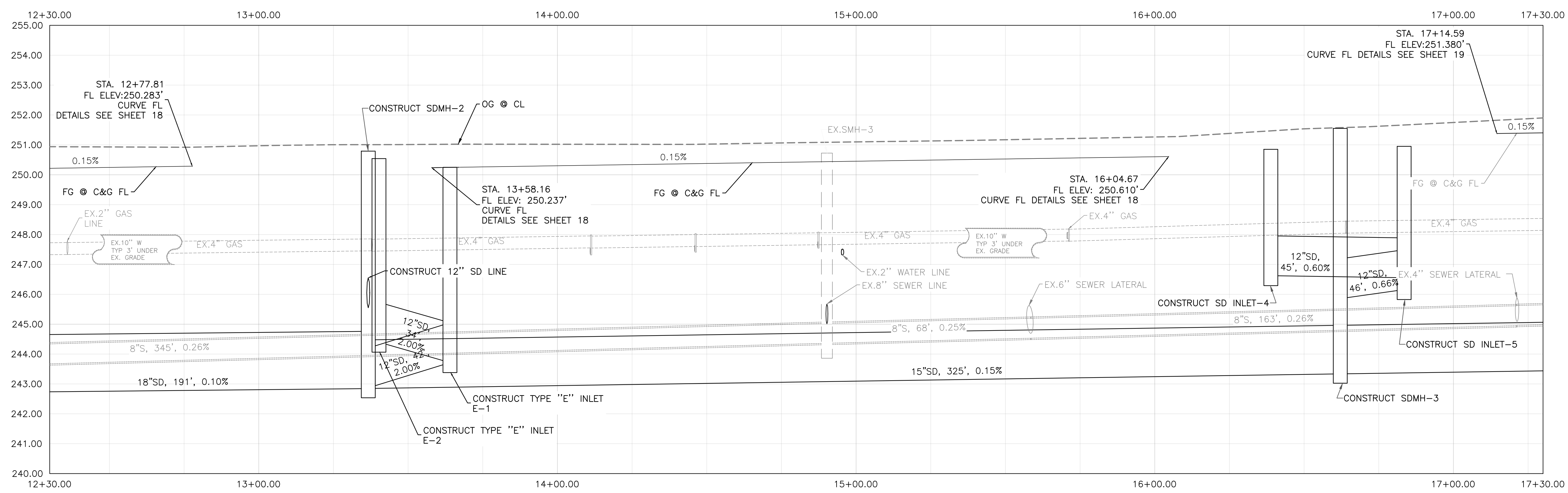


	DATE	RECORD DRAWING	SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING			
DESIGNED: DK	2-15-24	RESIDENT ENGINEER			BIOLA COMMUNITY SIDEWALK IMPROVEMENTS		PLAN AND PROFILE			
DRAWN: EC	2-15-24	DATE					2-15-24	ROAD NO. W1250	BRIDGE NO. N/A	PLAN AND PROFILE
CHECKED: S. ARTAL	2-15-24									DRAWING NO. 11320 SHEET NO. 10 TOTAL 32

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

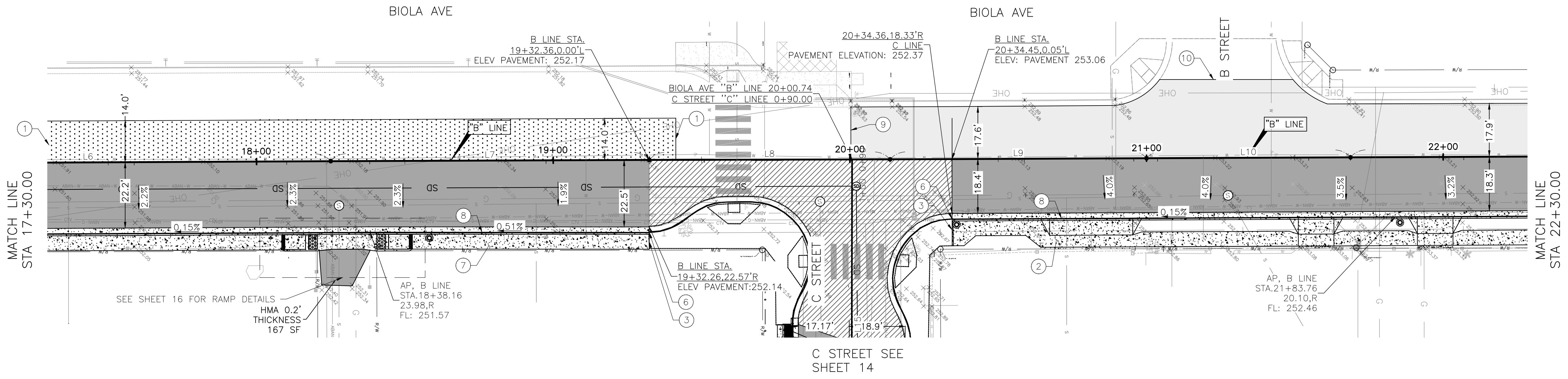


Line Table: BIOLA AVENUE		
Line #	Length	Direction
L1	217.09	N00°02'55"W
L2	177.96	N00°08'35"W
L3	165.21	N00°15'10"W
L4	184.79	N00°19'47"W
L5	161.48	N00°21'38"W
L6	163.52	N00°16'53"W
L7	107.36	N00°14'07"W
L8	81.20	N00°07'15"W
L9	86.43	N00°15'15"W
L10	68.76	N00°15'14"W
L11	279.10	N00°14'26"W
L12	77.75	N00°20'47"W
L13	87.04	N00°20'21"W



- NOTES:
- PROTECT SURVEY MONUMENTS IN PLACE
 - SEE SHEETS 15 - 19, AND SHEET 24 FOR DRIVEWAY AND SIDEWALK CONSTRUCTION DETAILS.
 - ① GRIND AND OVERLAY 0.15" THICKNESS
 - ② SIDEWALK AROUND POWER POLE PROVIDE 4' MIN WIDTH
 - ③ MATCH EXISTING SIDEWALK
 - ④ EXISTING DRIVEWAY
 - ⑤ EXISTING EP
 - ⑥ MATCH EXISTING CURB AND GUTTER
 - ⑦ CONSTRUCT SIDEWALK PER P-1 SEE SHEET 24
 - ⑧ CONSTRUCT CURB AND GUTTER PER P-5 SEE SHEET 24
 - ⑨ SLURRY SEAL BEGIN
 - ⑩ SLURRY SEAL END
 - ▲ ANGLE POINT

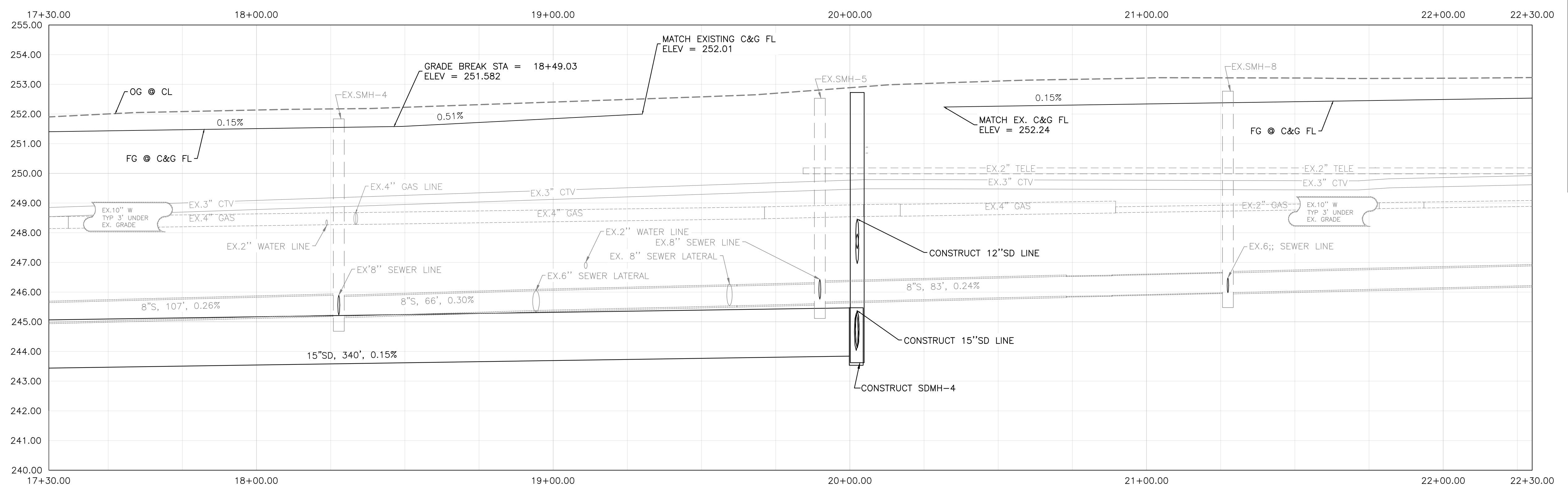
DESIGNED: DK DRAWN: EC CHECKED: S. ARTAL	DATE: 2-15-24 DATE: 2-15-24 DATE: 2-15-24	RECORD DRAWING RESIDENT ENGINEER	DATE:	SCALE H: 0 20' 40' V: 0 2' 4'	 SUPERVISING ENGINEER DATE: 2-15-24	PROJECT BIOLA COMMUNITY SIDEWALK IMPROVEMENTS ROAD NO. W1250 BRIDGE NO. N/A	 DEPARTMENT OF PUBLIC WORKS AND PLANNING PLAN AND PROFILE
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				REGISTERED PROFESSIONAL ENGINEER SEBESTIAN T. ARTAL No. C76724 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA		DRAWING NO. 11320 SHEET NO. 11 TOTAL 32	



Line Table: BIOLA AVENUE

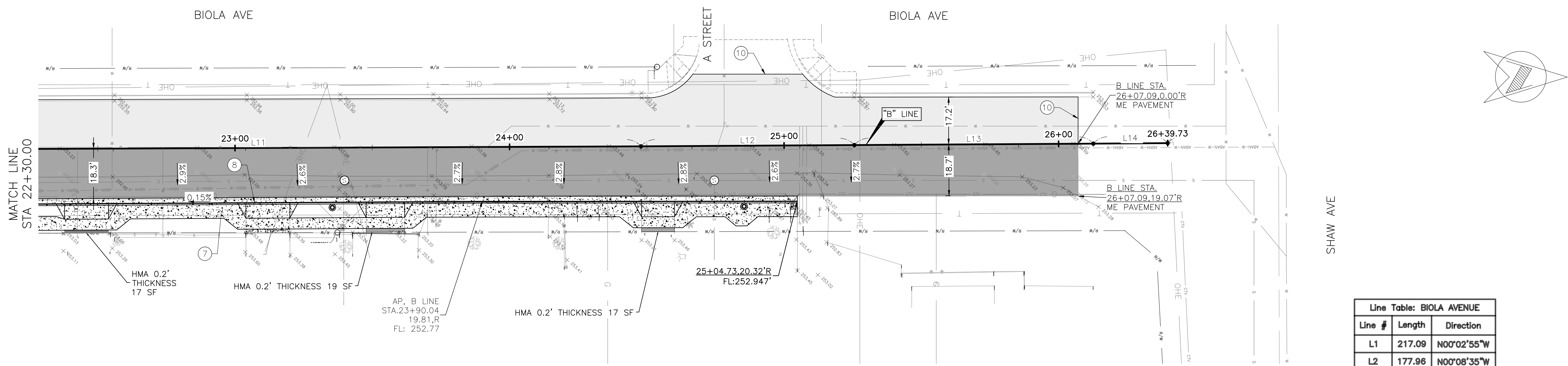
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L2	177.96	N00°08'35"W
L3	165.21	N00°15'10"W
L4	184.79	N00°19'47"W
L5	161.48	N00°21'38"W
L6	163.52	N00°16'53"W
L7	107.36	N00°14'07"W
L8	81.20	N00°07'15"W
L9	86.43	N00°15'15"W
L10	68.76	N00°15'14"W
L11	279.10	N00°14'26"W
L12	77.75	N00°20'47"W
L13	87.04	N00°20'21"W

- NOTES:**
- PROTECT SURVEY MONUMENTS IN PLACE
 - SEE SHEETS 15 - 19, AND SHEET 24 FOR DRIVEWAY AND SIDEWALK CONSTRUCTION DETAILS.
 - ① GRIND AND OVERLAY 0.15" THICKNESS
 - ② SIDEWALK AROUND POWER POLE PROVIDE 4' MIN WIDTH
 - ③ MATCH EXISTING SIDEWALK
 - ④ EXISTING DRIVEWAY
 - ⑤ EXISTING EP
 - ⑥ MATCH EXISTING CURB AND GUTTER
 - ⑦ CONSTRUCT SIDEWALK PER P-1 SEE SHEET 24
 - ⑧ CONSTRUCT CURB AND GUTTER PER P-5 SEE SHEET 24
 - ⑨ SLURRY SEAL BEGIN
 - ⑩ SLURRY SEAL END
 - ∠ ANGLE POINT

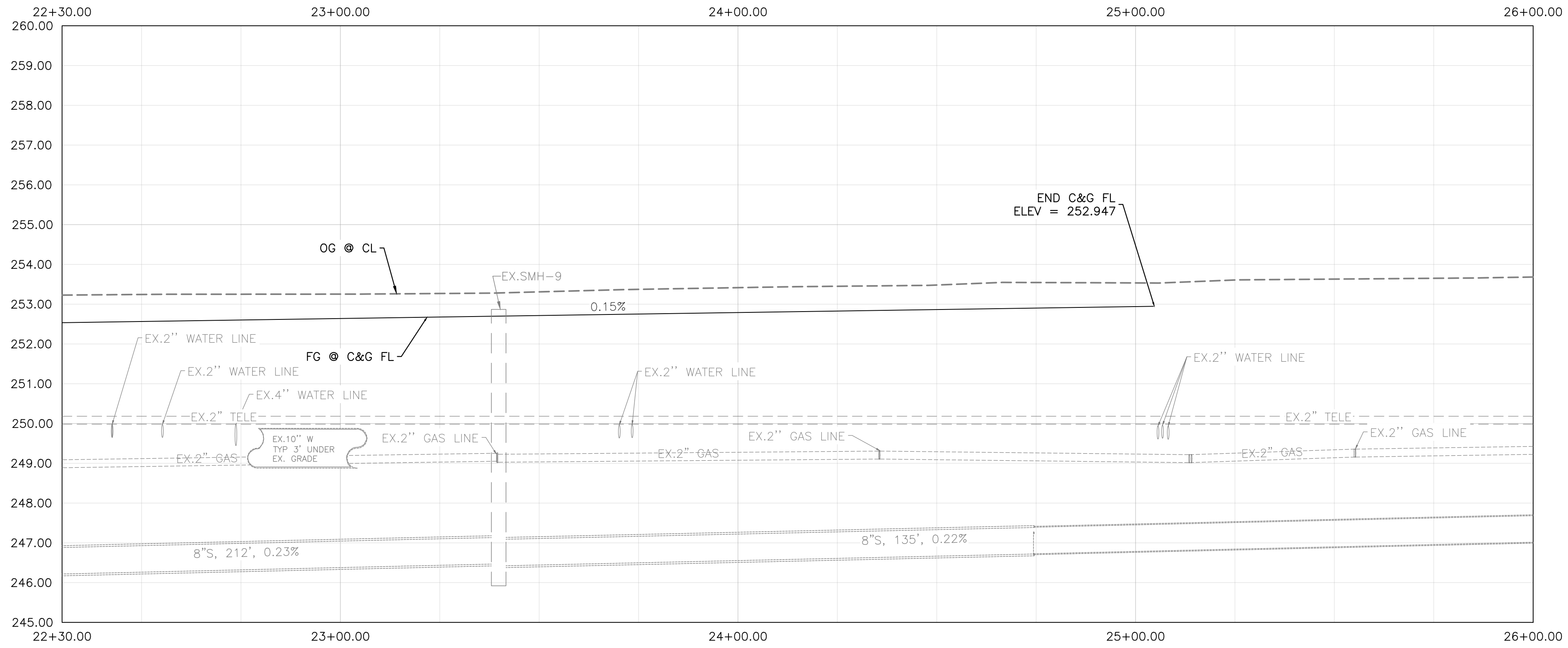


DESIGNED: DK	DATE: 2-15-24	RECORD DRAWING	SCALE	PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: EC	2-15-24	RESIDENT ENGINEER	H: 0 20' 40' V: 0 2' 4'	BIOLA COMMUNITY SIDEWALK IMPROVEMENTS	PLAN AND PROFILE
CHECKED: S. ARTAL	2-15-24		SUPERVISING ENGINEER DATE: 2-15-24	ROAD NO. W1250 BRIDGE NO. N/A	DRAWING NO. 11320 SHEET NO. 12 TOTAL 32

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



Line Table: BIOLA AVENUE		
Line #	Length	Direction
L1	217.09	N00°02'55"W
L2	177.96	N00°08'35"W
L3	165.21	N00°15'10"W
L4	184.79	N00°19'47"W
L5	161.48	N00°21'38"W
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L11	279.10	N00°14'26"W
L12	77.75	N00°20'47"W
L13	87.04	N00°20'21"W

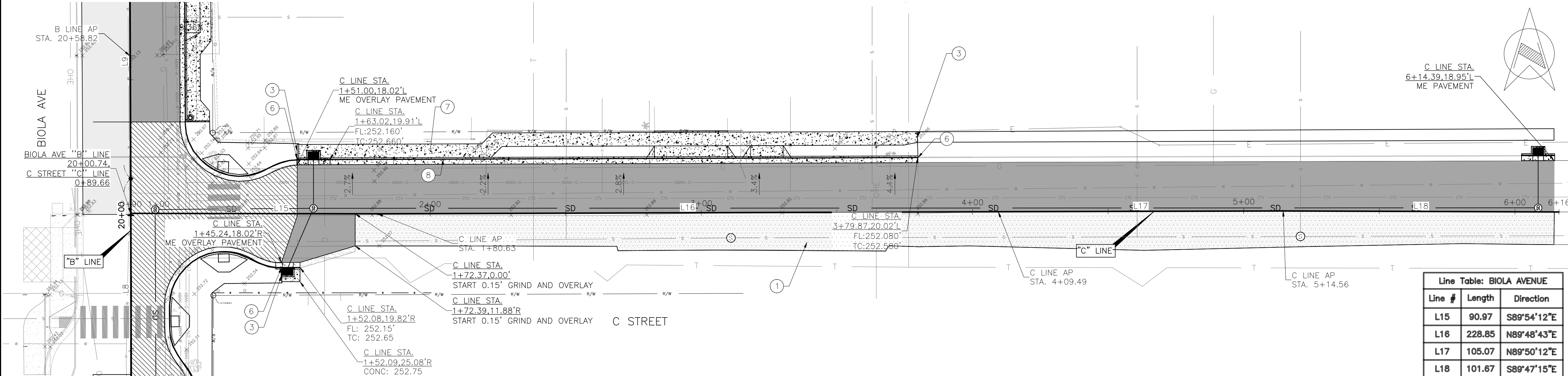


- NOTES:
- PROTECT SURVEY MONUMENTS IN PLACE
 - SEE SHEETS 15 - 19, AND SHEET 24 FOR DRIVEWAY AND SIDEWALK CONSTRUCTION DETAILS.
 - ① GRIND AND OVERLAY 0.15" THICKNESS
 - ② SIDEWALK AROUND POWER POLE PROVIDE 4' MIN WIDTH
 - ③ MATCH EXISTING SIDEWALK
 - ④ EXISTING DRIVEWAY
 - ⑤ EXISTING EP
 - ⑥ MATCH EXISTING CURB AND GUTTER
 - ⑦ CONSTRUCT SIDEWALK PER P-1 SEE SHEET 24
 - ⑧ CONSTRUCT CURB AND GUTTER PER P-5 SEE SHEET 24
 - ⑨ SLURRY SEAL BEGIN
 - ⑩ SLURRY SEAL END
 - ▽ ANGLE POINT

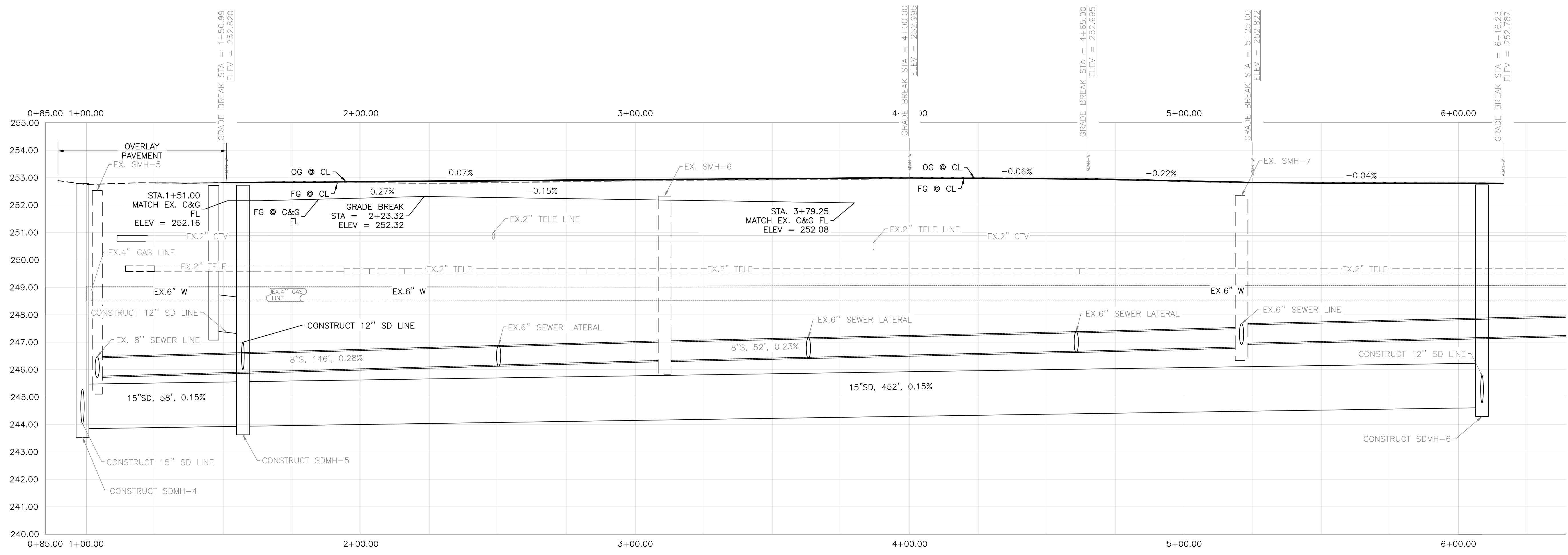
	DATE	RECORD DRAWING	SCALE		PROJECT	
DESIGNED: DK	2-15-24	RESIDENT ENGINEER	H: 0 20' 40'	SUPERVISING ENGINEER DATE 2-15-24	BIOLA COMMUNITY SIDEWALK IMPROVEMENTS ROAD NO. W1250 BRIDGE NO. N/A	DEPARTMENT OF PUBLIC WORKS AND PLANNING PLAN AND PROFILE
DRAWN: EC	2-15-24	V: 0 2' 4'	No. C76724 Exp. 12/31/24 CIVIL ENGINEER STATE OF CALIFORNIA			
CHECKED: S. ARTAL	2-15-24					
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						
				DRAWING NO. 11320 SHEET NO. 13 TOTAL 32		

NOTES:
 SEE SHEETS 15 - 19, AND SHEET 24 FOR DRIVEWAY AND SIDEWALK CONSTRUCTION DETAILS.
 ELEVATIONS AND/OR LOCATION SHALL BE VERIFIED BY CONTRACTOR.

- ① GRIND AND OVERLAY 0.15 THICKNESS
- ② SIDEWALK AROUND POWER POLE PROVIDED MINIMUM 4' MINIMUM WIDTH
- ③ MATCH EXISTING SIDEWALK
- ④ EXISTING DRIVEWAY
- ⑤ EXISTING EP
- ⑥ MATCH EXISTING CURB AND GUTTER
- ⑦ CONSTRUCT SIDEWALK PER DETAIL P-1 SEE SHEET 24
- ⑧ CONSTRUCT CURB AND GUTTER PER DETAIL P-5 SEE SHEET 24
- ⑨ SLURRY SEAL BEGIN
- ⑩ SLURRY SEAL END

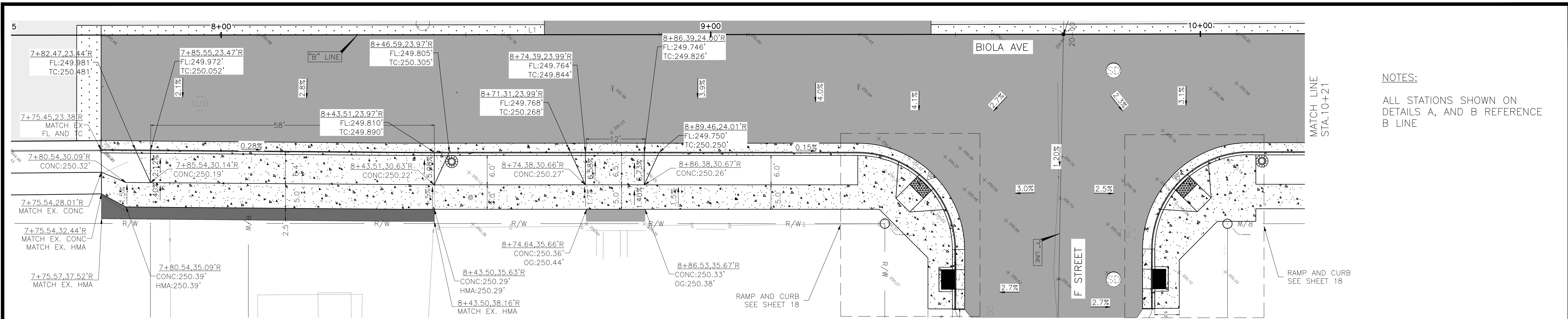


Line Table: BIOLA AVENUE		
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L16	228.85	N89°48'43"E
L17	105.07	N89°50'12"E
L18	101.67	S89°47'15"E



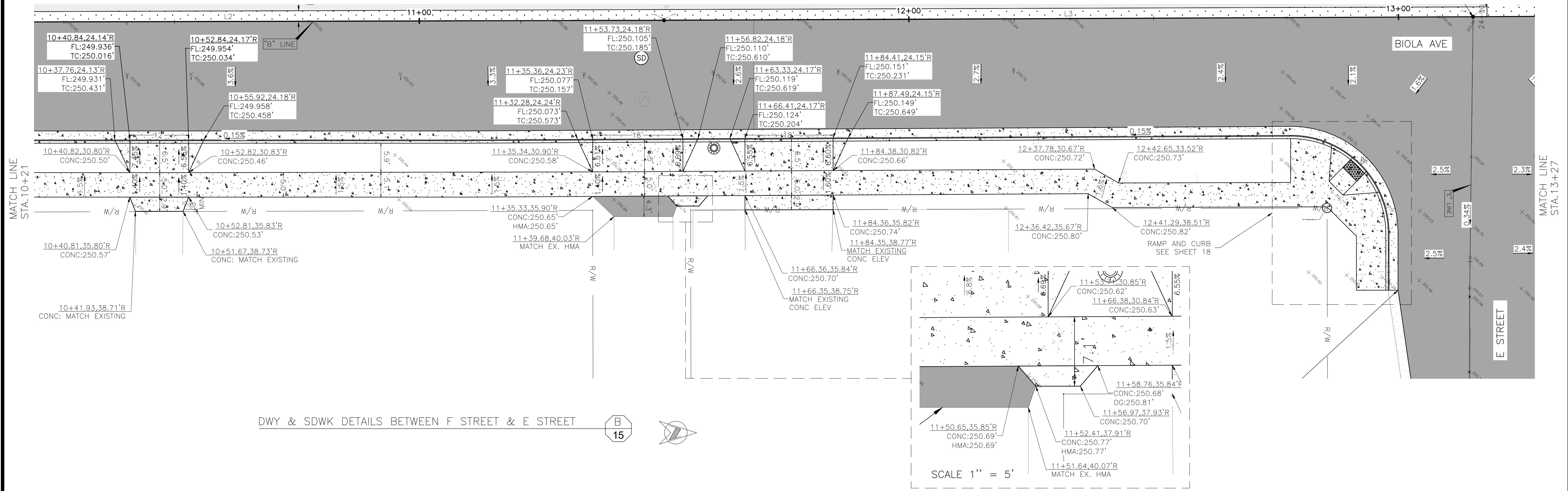
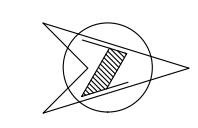
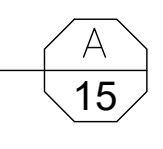
DESIGNED: DK DRAWN: EC CHECKED: S. ARTAL	DATE: 2-15-24 DATE: 2-15-24 DATE: 2-15-24	RECORD DRAWING RESIDENT ENGINEER	SCALE H: 0 20' 40' V: 0 2' 4'	 SUPERVISING ENGINEER DATE: 2-15-24	PROJECT BIOLA COMMUNITY SIDEWALK IMPROVEMENTS ROAD NO. W1250 BRIDGE NO. N/A	 REGISTERED PROFESSIONAL ENGINEER SEBESTIAN T. ARTAL No. C76724 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA	DEPARTMENT OF PUBLIC WORKS AND PLANNING PLAN AND PROFILE DRAWING NO. 11320 SHEET NO. 14 TOTAL 32
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FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

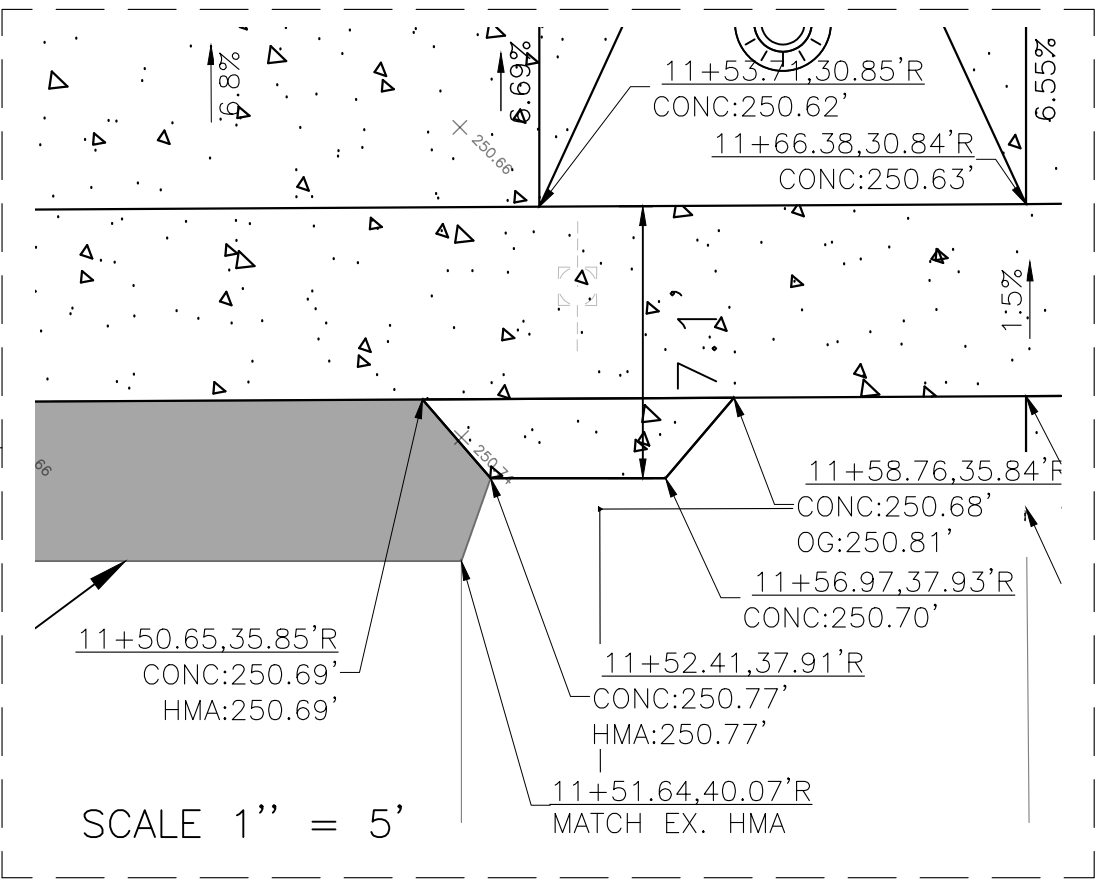
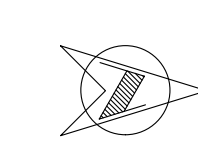
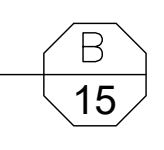


NOTES:
ALL STATIONS SHOWN ON
DETAILS A, AND B REFERENCE
B LINE

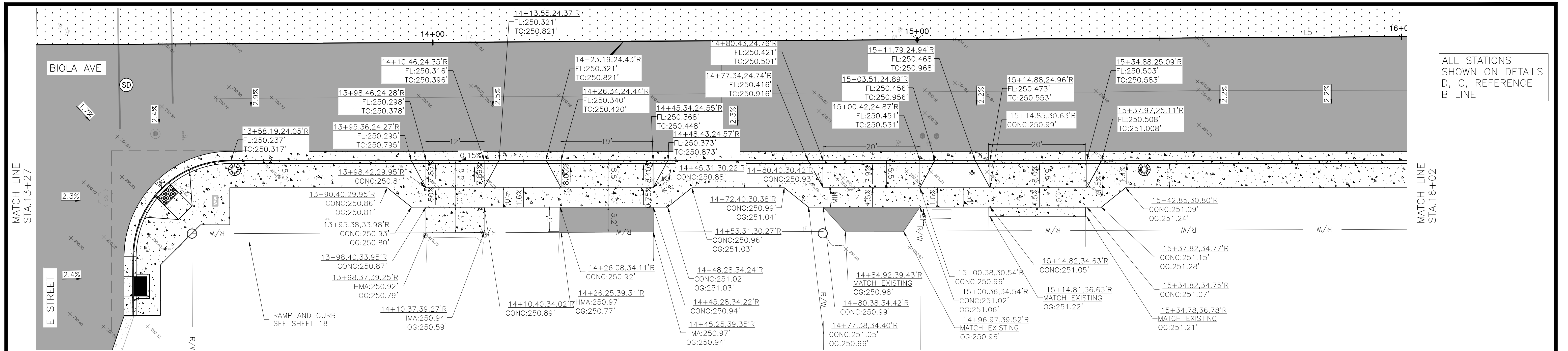
DWY & SDWK DETAILS BETWEEN G STREET & F STREET



DWY & SDWK DETAILS BETWEEN F STREET & E STREET

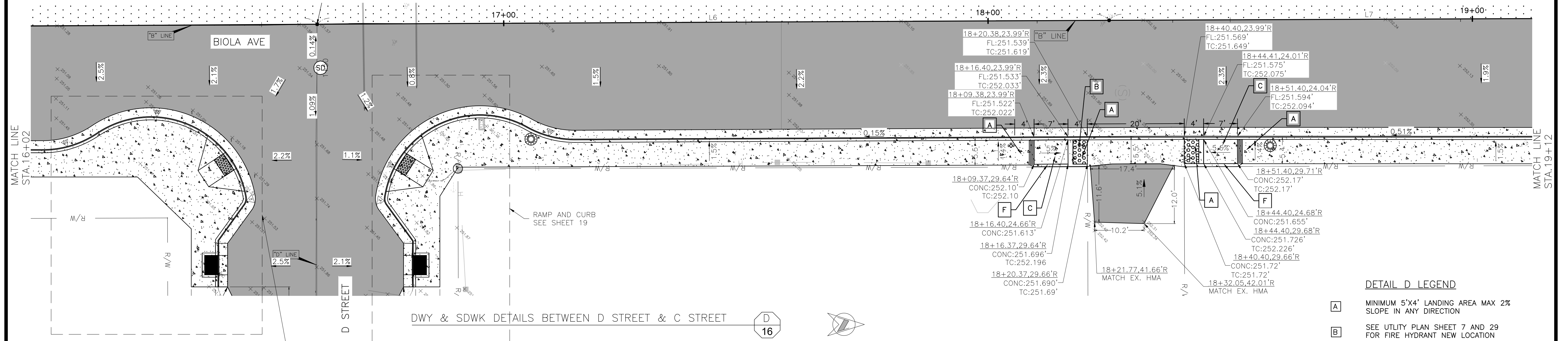
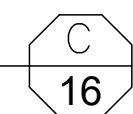


DESIGNED: DK		DATE: 2-15-24	RECORD DRAWING		SCALE			PROJECT				
DRAWN: EC		DATE: 2-15-24	RESIDENT ENGINEER					BIOLA COMMUNITY SIDEWALK IMPROVEMENTS			DEPARTMENT OF PUBLIC WORKS AND PLANNING	
CHECKED: S. ARTAL		DATE: 2-15-24						ROAD NO. W1250			DRAWING NO. 11320	
								BRIDGE NO. N/A			SHEET NO. 15	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.											TOTAL 32	

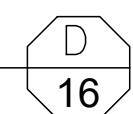


ALL STATIONS SHOWN ON DETAILS D, C, REFERENCE B LINE

DWY & SDWK DETAILS BETWEEN E STREET & D STREET



DWY & SDWK DETAILS BETWEEN D STREET & C STREET

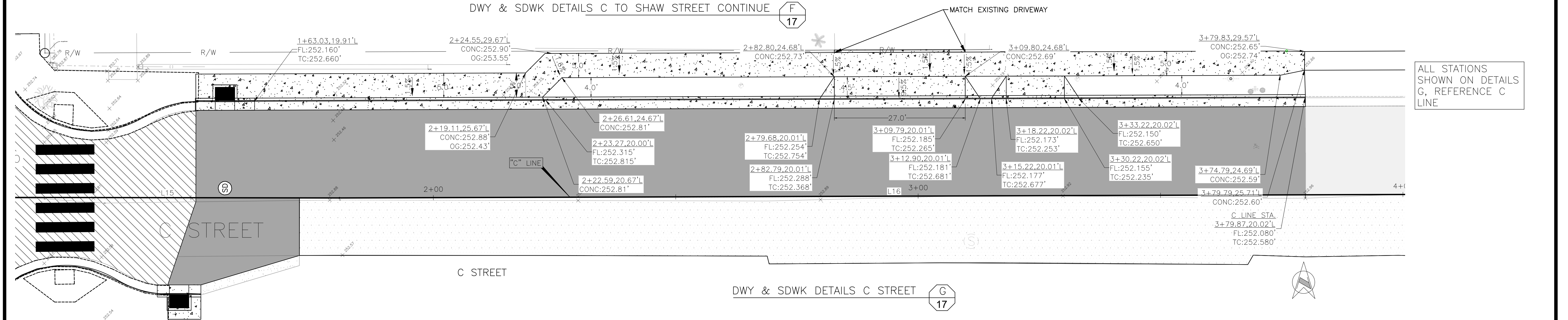
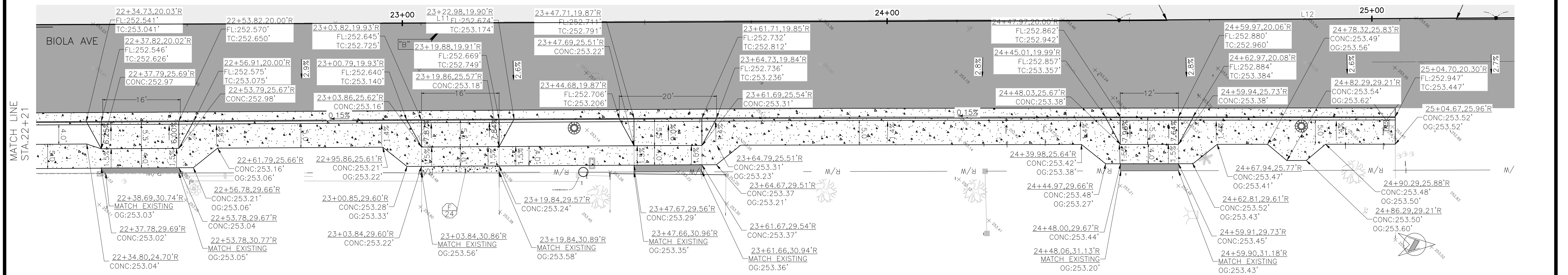
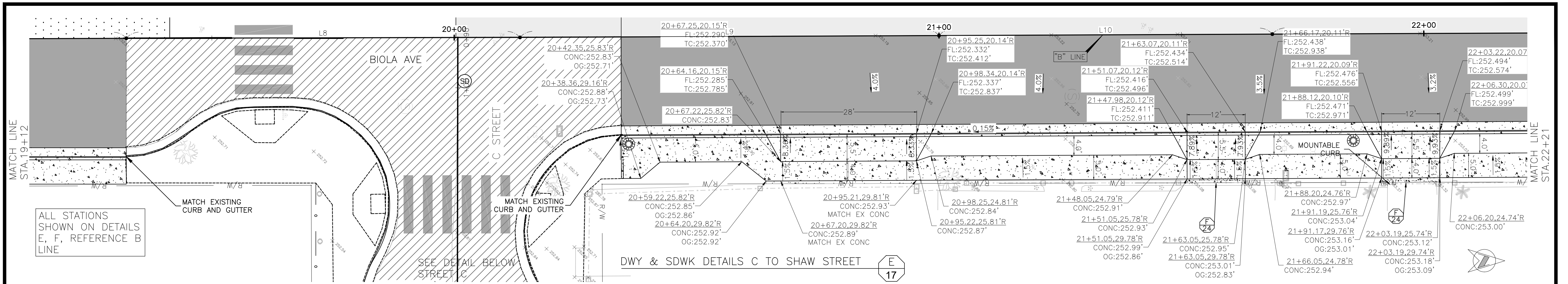


DETAIL D LEGEND

- [A] MINIMUM 5'x4' LANDING AREA MAX SLOPE IN ANY DIRECTION
- [B] SEE UTILITY PLAN SHEET 7 AND 29 FOR FIRE HYDRANT NEW LOCATION
- [C] ADA RAMP MAX RUNNING SLOPE 5.5%
- [F] RETAINING CURB
- CONC
- DETECTABLE WARNING SURFACE PER P-32 SHEET 25

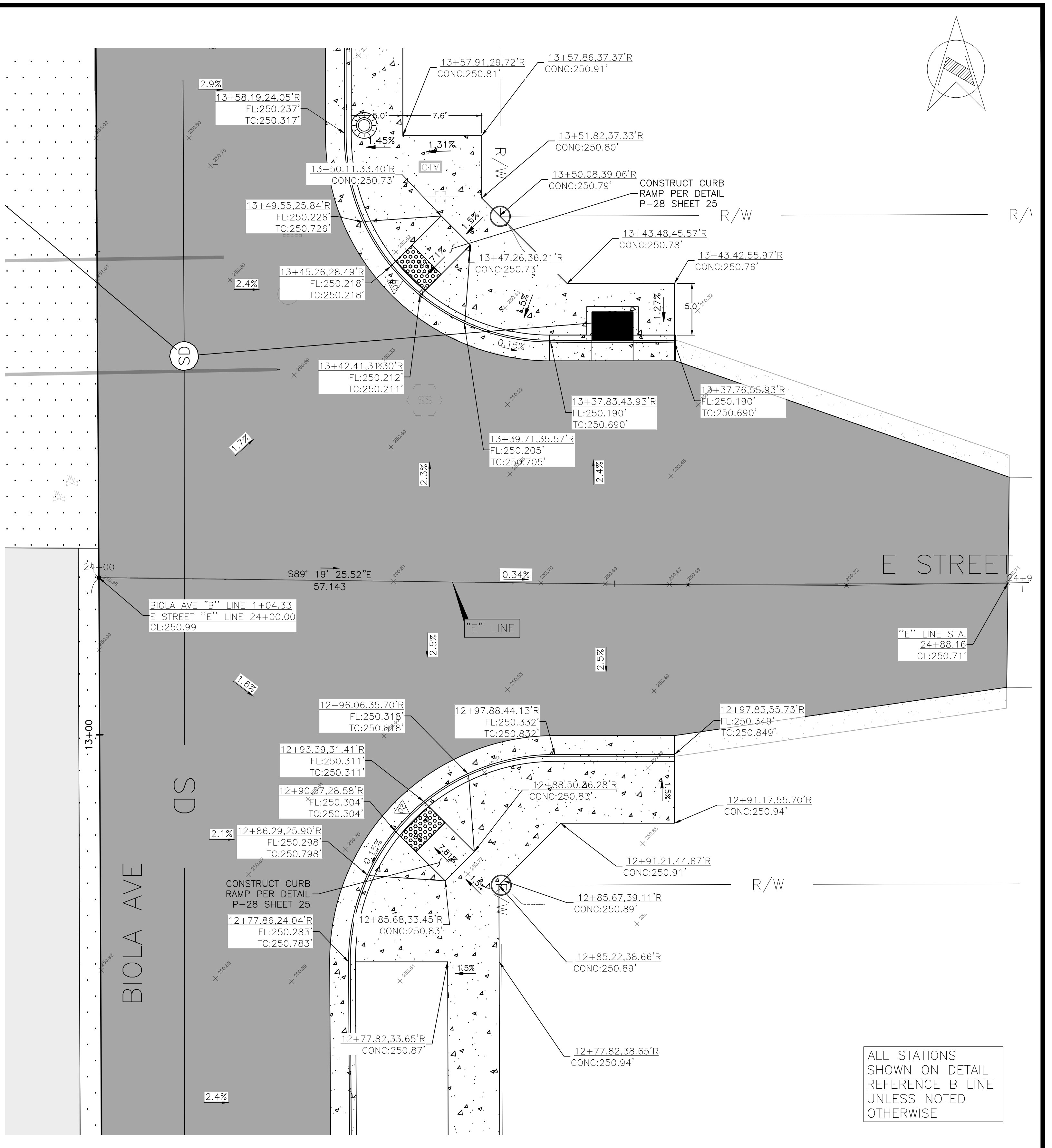
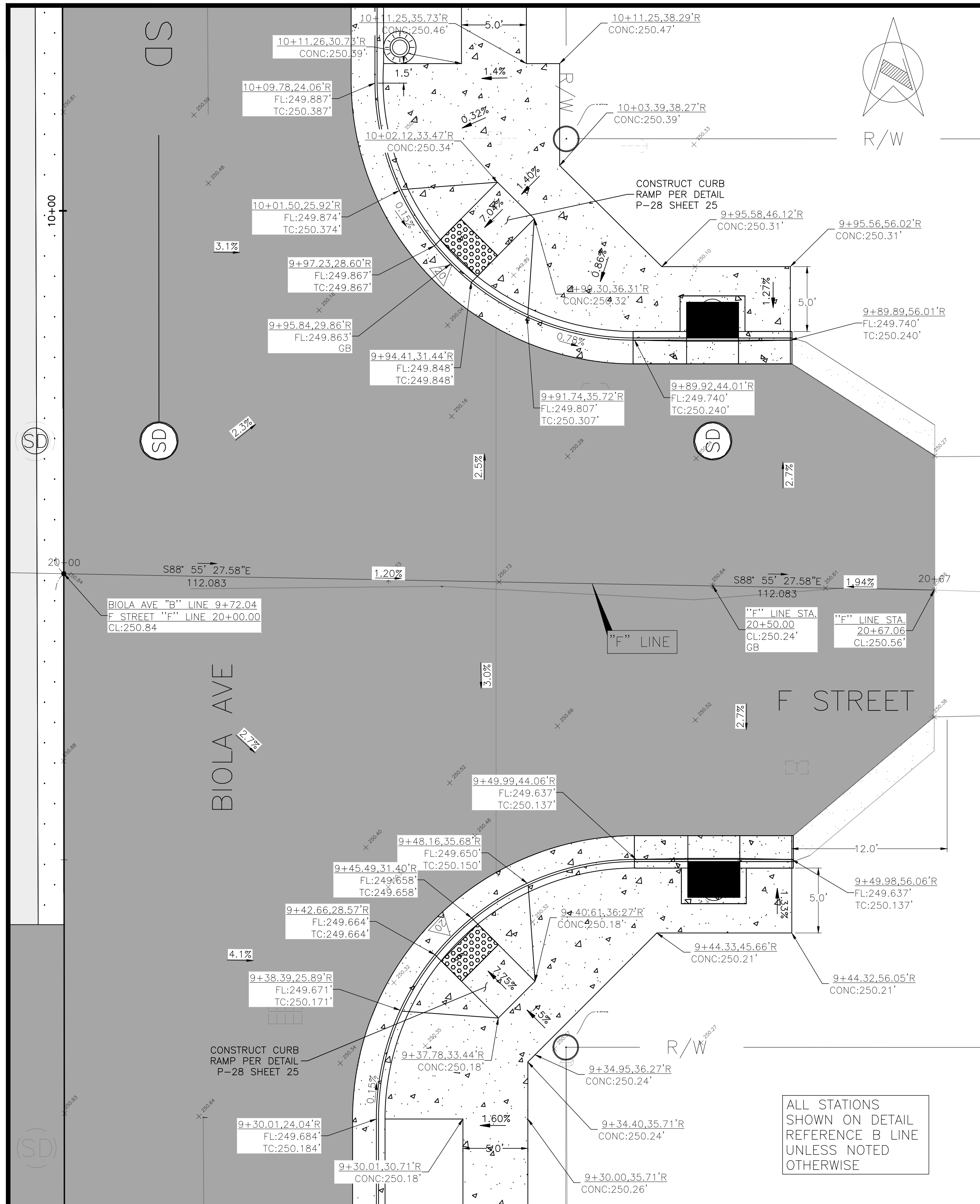
DESIGNED: DK	DATE: 2-15-24	RECORD DRAWING		SCALE: 0 10' 20'	 SUPERVISING ENGINEER	 No. C76724 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA	PROJECT: BIOLA COMMUNITY SIDEWALK IMPROVEMENTS	 DEPARTMENT OF PUBLIC WORKS AND PLANNING DRIVEWAY DETAILS (3)
DRAWN: EC	DATE: 2-15-24	RESIDENT ENGINEER	DATE	ROAD NO. W1250			BRIDGE NO. N/A	
CHECKED: S. ARTAL	DATE: 2-15-24			DRAWING NO. 11320			SHEET NO. 16	


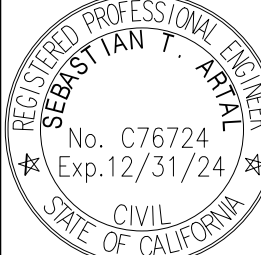

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



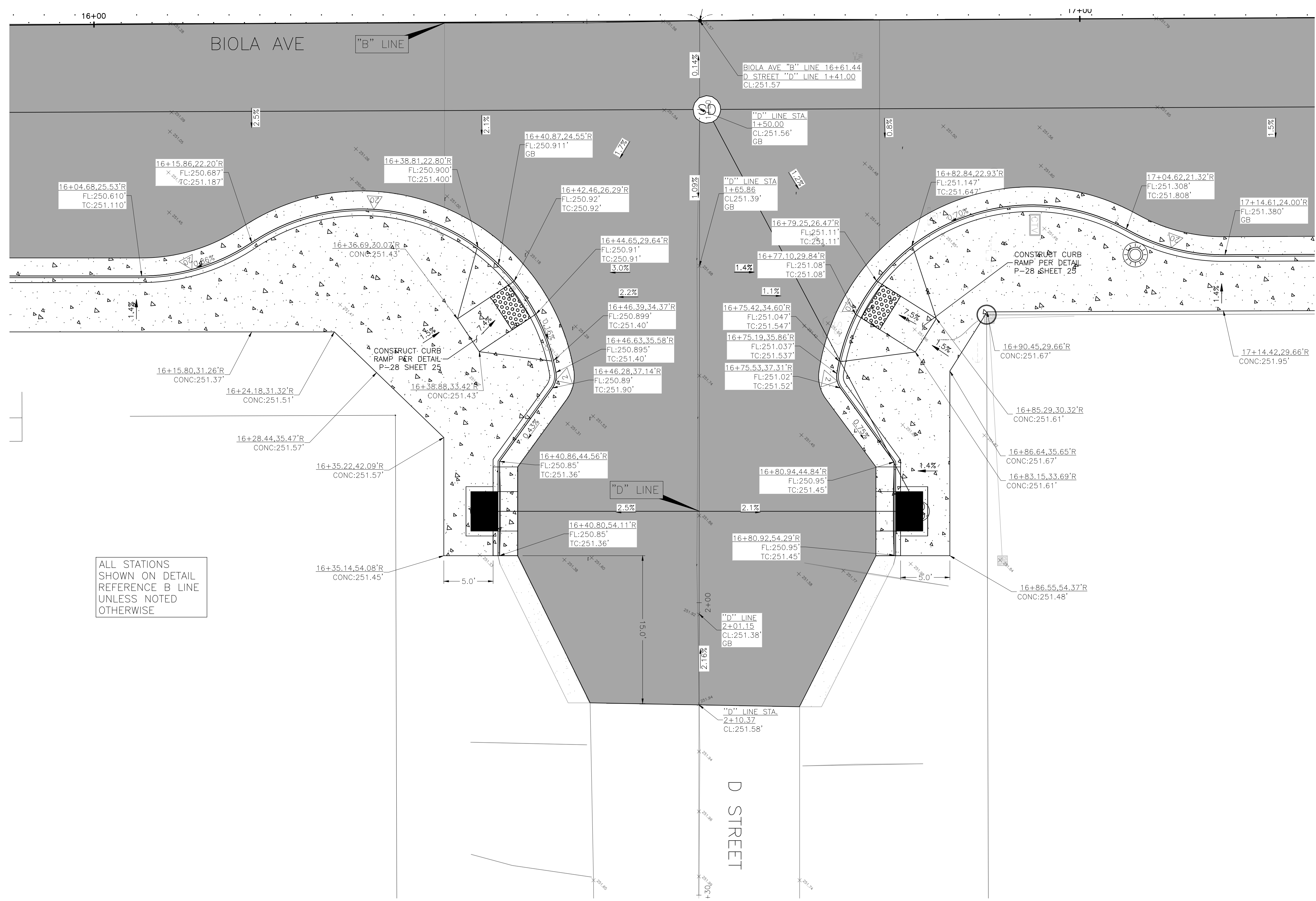
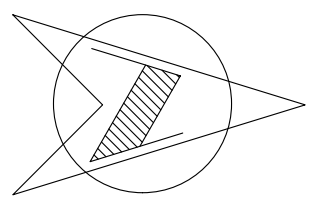
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DRAWN: EC	DATE: 2-15-24	RESIDENT ENGINEER	DATE	0 10' 20'			BIOLA COMMUNITY SIDEWALK IMPROVEMENTS		DRIVEWAY DETAILS
CHECKED: S. ARTAL	DATE: 2-15-24						ROAD NO. W1250		BRIDGE NO. N/A




FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



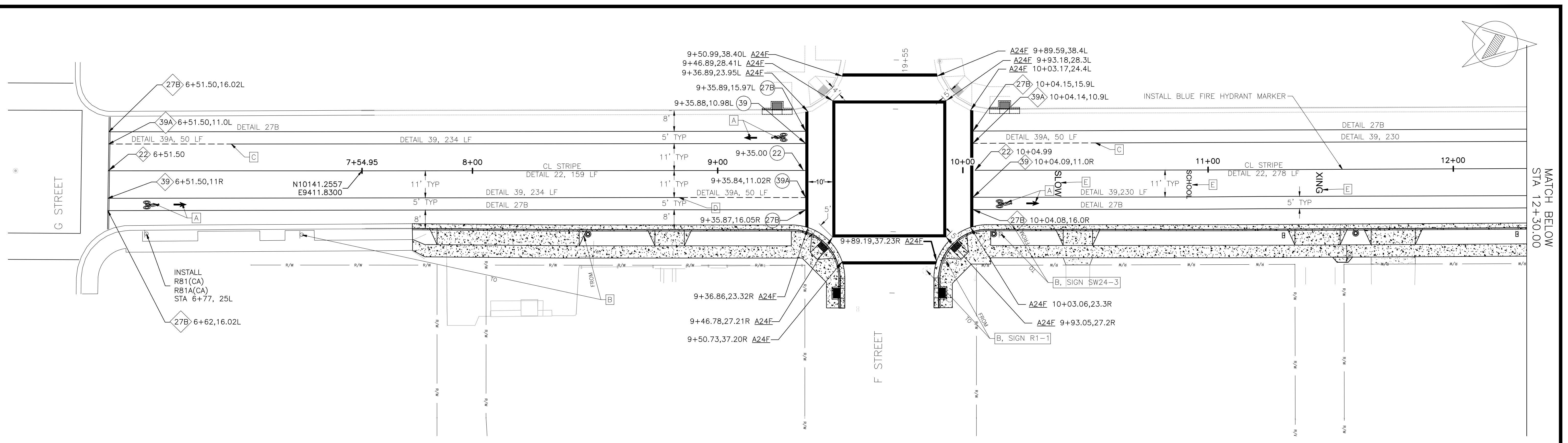
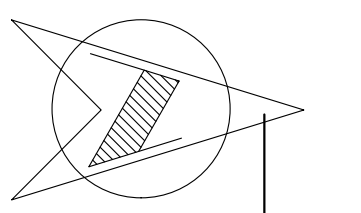
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DRAWN: EC	DATE: 2-15-24	RESIDENT ENGINEER	DATE	ROAD NO. W1250							BRIDGE NO. N/A
CHECKED: S. ARTAL	DATE: 2-15-24			DRAWING NO. 11320							SHEET NO. 18

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

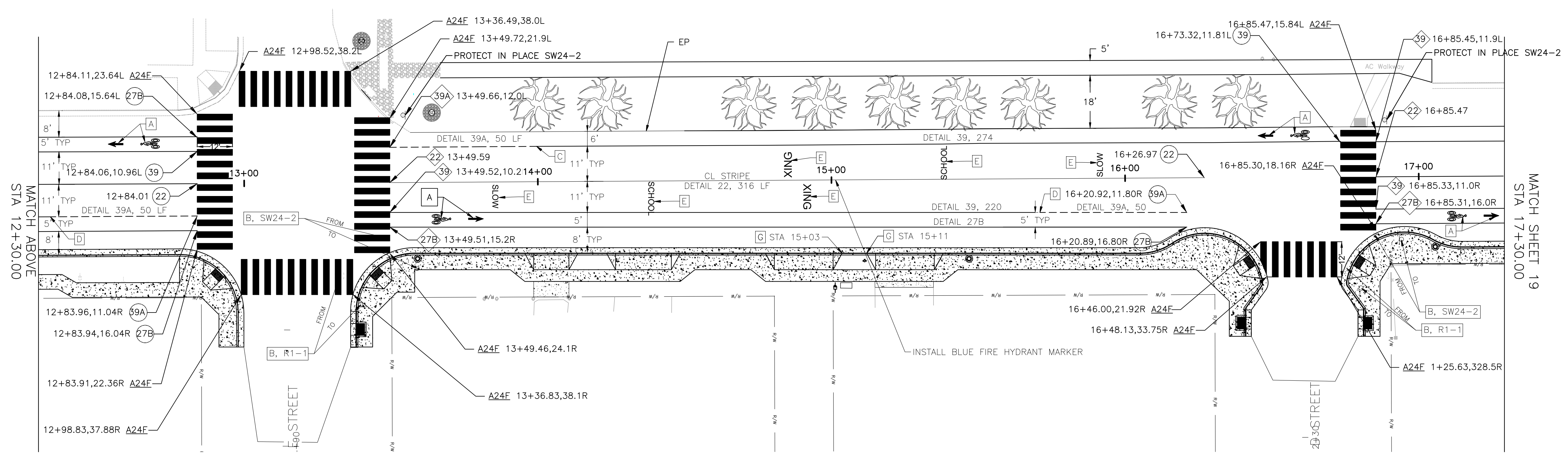


DESIGNED: DK	DATE: 2-15-24	RECORD DRAWING		SCALE: 0 5' 10'	 SUPERVISING ENGINEER DATE: 2-15-24		PROJECT: BIOLA COMMUNITY SIDEWALK IMPROVEMENTS		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: EC	DATE: 2-15-24	RESIDENT ENGINEER	DATE:	ROAD NO. W1250			BRIDGE NO. N/A		INTERSECTION DETAILS D
CHECKED: S. ARTAL	DATE: 2-15-24			DRAWING NO. 11320			SHEET NO. 19		TOTAL 32

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



MATCH BELOW
STA 12+30.00

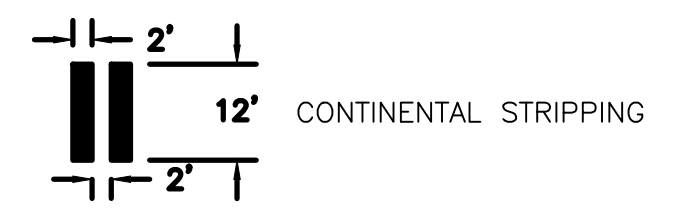


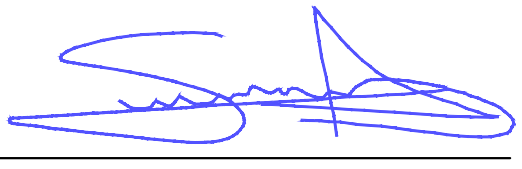

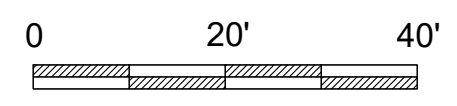
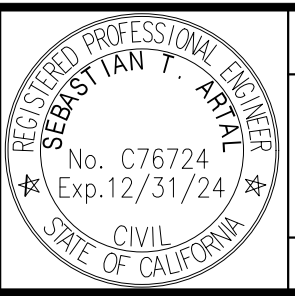
MATCH ABOVE
STA 12+30.00

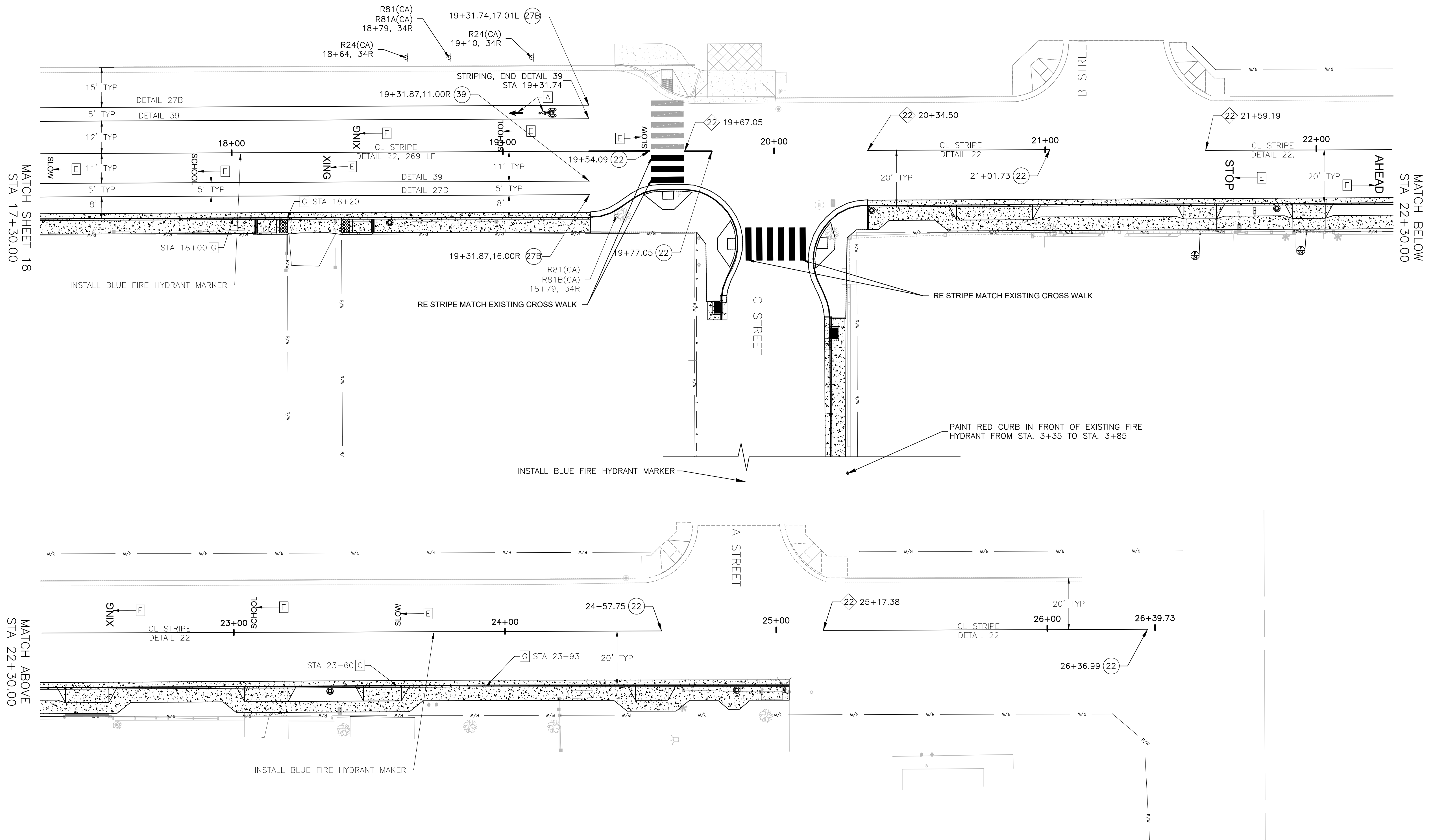
MATCH SHEET 19
STA 17+30.00

LEGEND

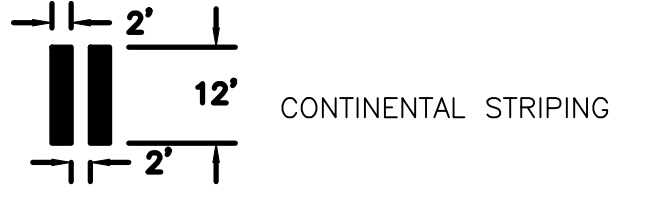
- [A] STRIPE PER CALTRANS STANDARD A24C, BIKE LANE SYMBOL WITH PERSON AND A24A, BIKE LANE ARROW
- [B] REMOVE AND REPLACE SIGN
- [C] DETAIL 39A END, DETAIL 39 BEGIN
- [D] DETAIL 39 END, DETAIL 39A BEGIN
- [E] STRIPE PER CALTRANS STANDARD A24D
- [G] STRIPE RED CURB
- ◇22 BEGIN STRIPE PER CALTRANS STANDARD A20A, DETAIL 22
- ◇27B BEGIN STRIPE PER CALTRANS STANDARD A20A, DETAIL 27B
- ◇39 BEGIN STRIPE PER CALTRANS STANDARD A20A, DETAIL 39
- ◇39A BEGIN STRIPE PER CALTRANS STANDARD A20A, DETAIL 39A
- 22 END STRIPE DETAIL 22
- 27B END STRIPE DETAIL 27B
- 39 END STRIPE DETAIL 39
- 39A END STRIPE DETAIL 39A
- A24F STRIPE CROSSWALK PER CALTRANS A24F, AS DEPICTED IN PLANS YELLOW COLOR



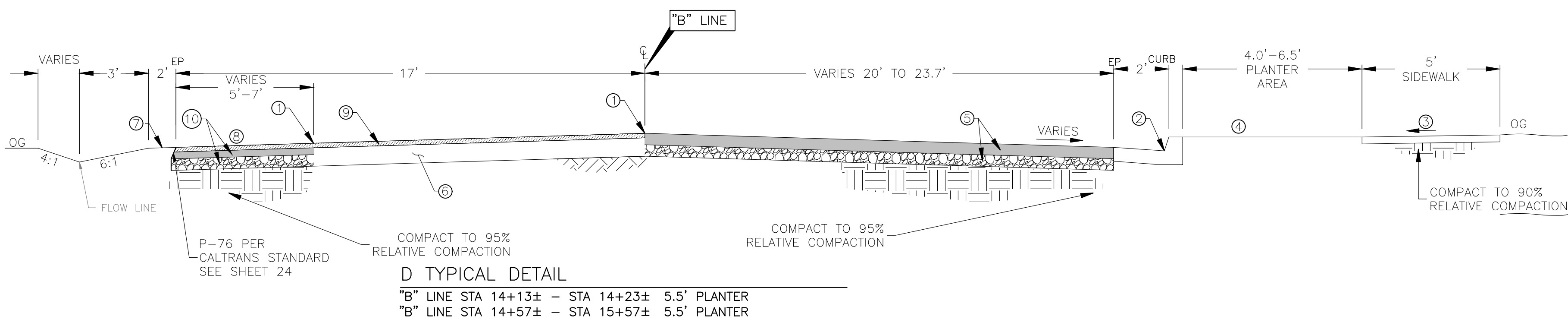
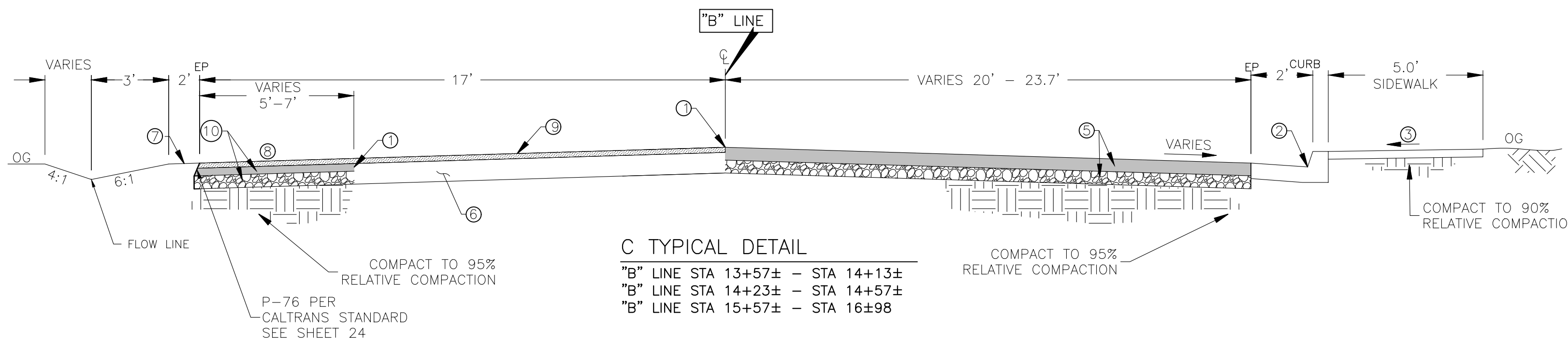
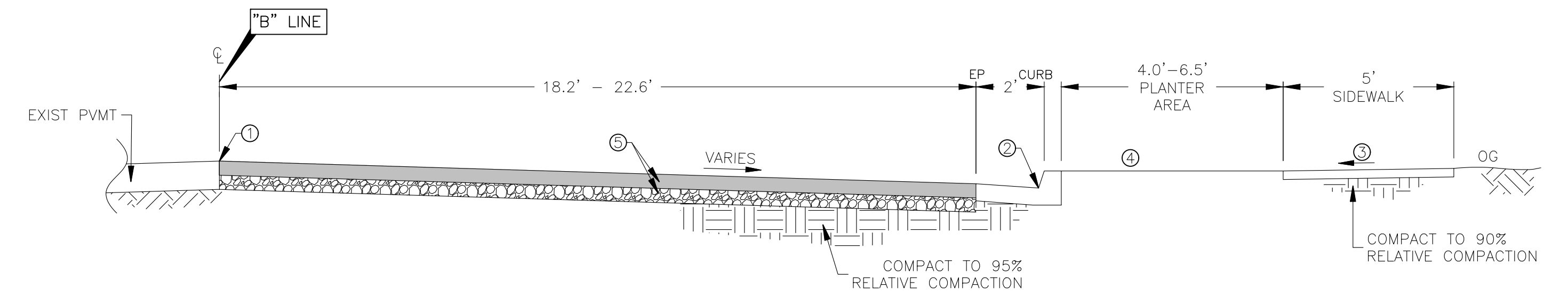
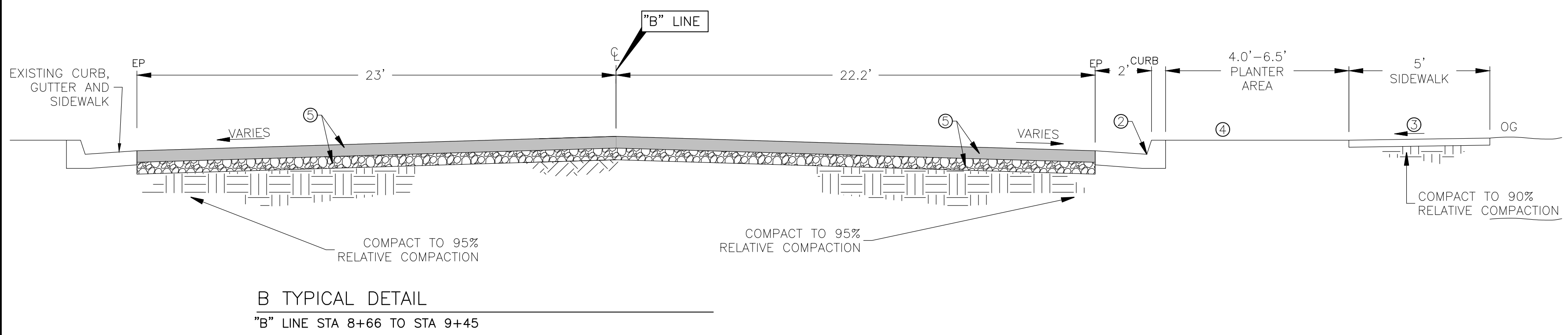
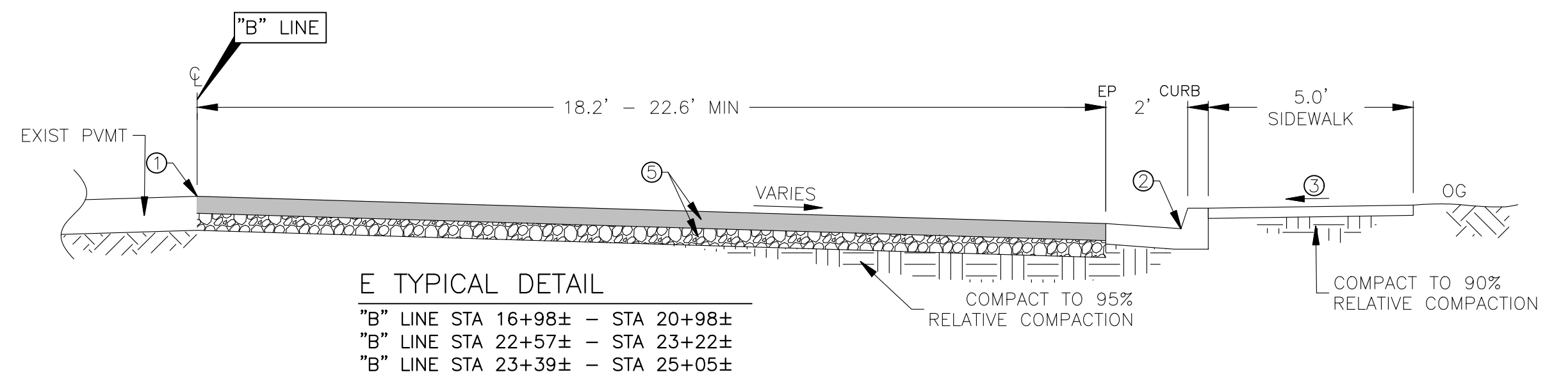
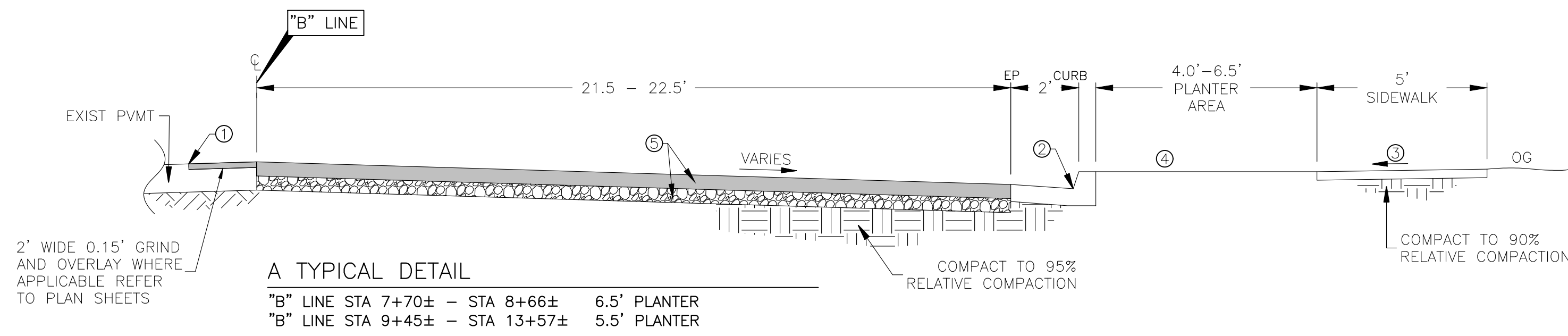
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DRAWN: EC	DATE: 2-15-24	RESIDENT ENGINEER	DATE			 No. C76724 Exp. 12/31/24 CIVIL ENGINEER STATE OF CALIFORNIA		ROAD NO. W1250
CHECKED: S. ARTAL	DATE: 2-15-24					DATE: 2-15-24		BRIDGE NO. N/A
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.								DRAWING NO. 11320
						SHEET NO. 20	TOTAL 32	



- LEGEND**
- [A] STRIPE PER CALTRANS STANDARD A24C, BIKE LANE SYMBOL WITH PERSON AND A24A, BIKE LANE ARROW
 - [B] REMOVE AND REPLACE SIGN
 - [C] DETAIL 39A END
DETAIL 39 BEGIN
 - [D] DETAIL 39 END
DETAIL 39A BEGIN
 - [E] STRIPE PER CALTRANS STANDARD A24D
 - [G] STRIP RED CURB
 - ◇22 BEGIN STRIPE PER CALTRANS STANDARD A20A, DETAIL 22
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 - 22 END STRIPE DETAIL 22
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 - 39 END STRIPE DETAIL 39
 - 39A END STRIPE DETAIL 39A
 - A24F STRIPE CROSSWALK PER CALTRANS A24F, AS DEPICTED IN PLANS YELLOW COLOR



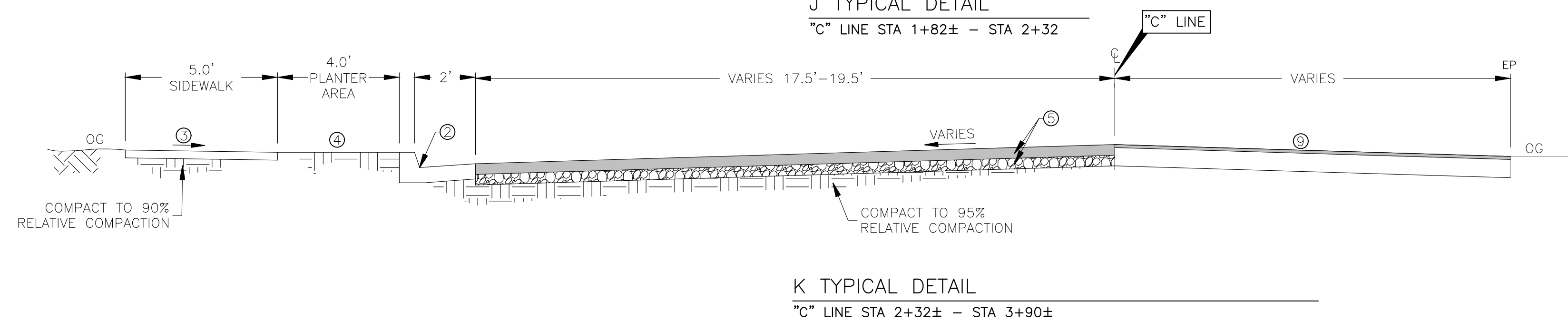
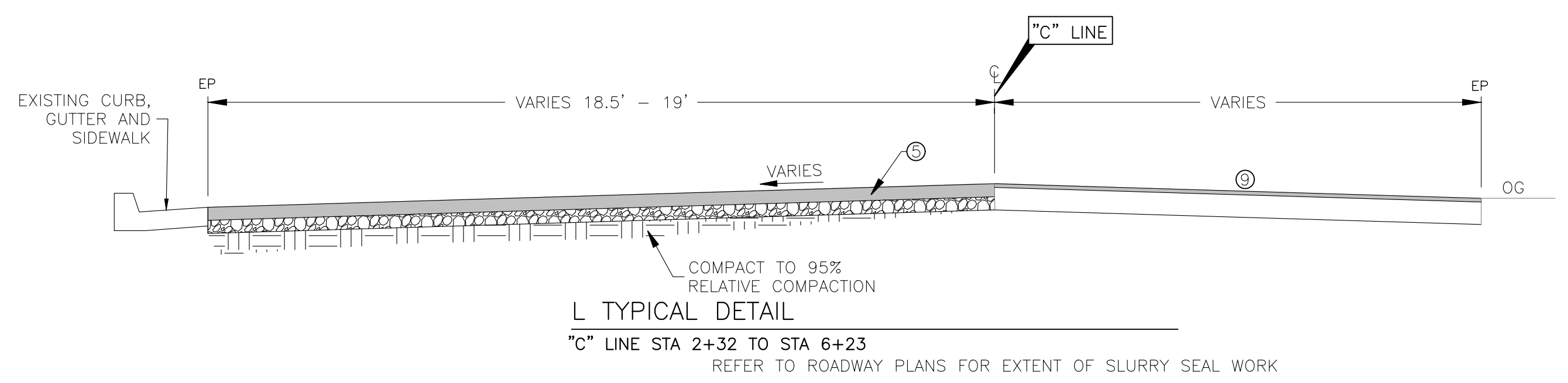
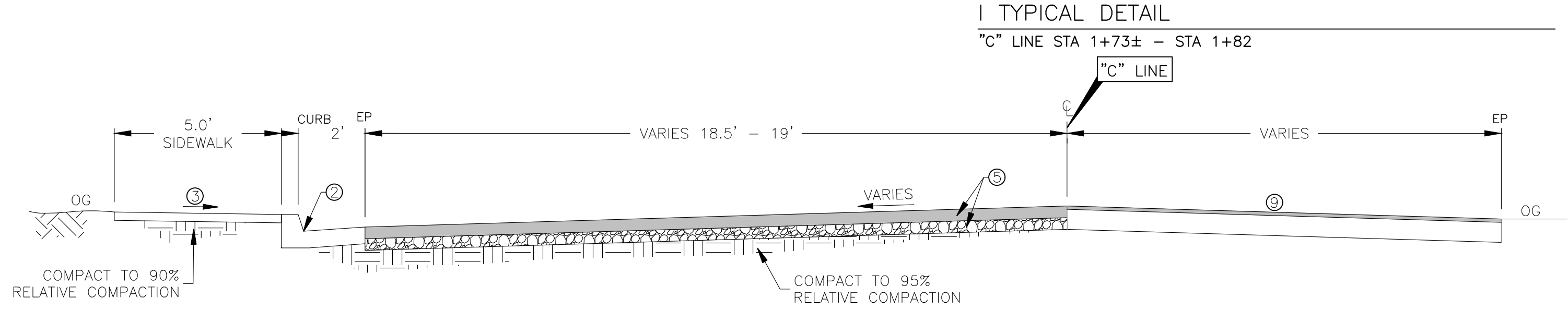
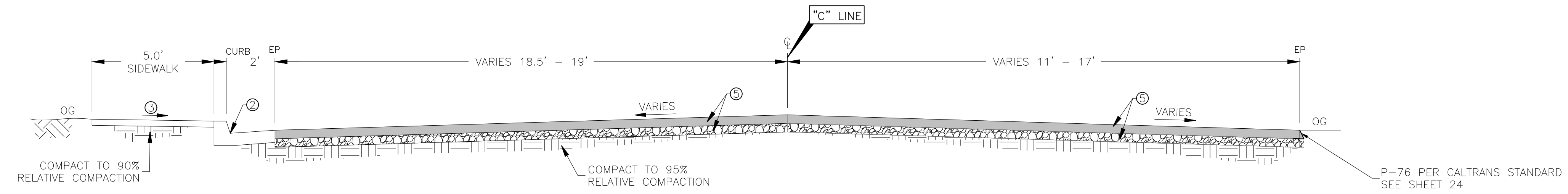
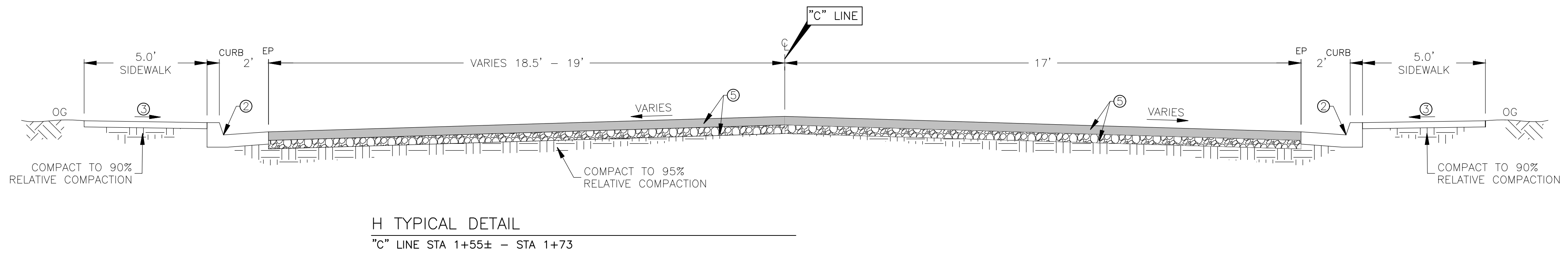
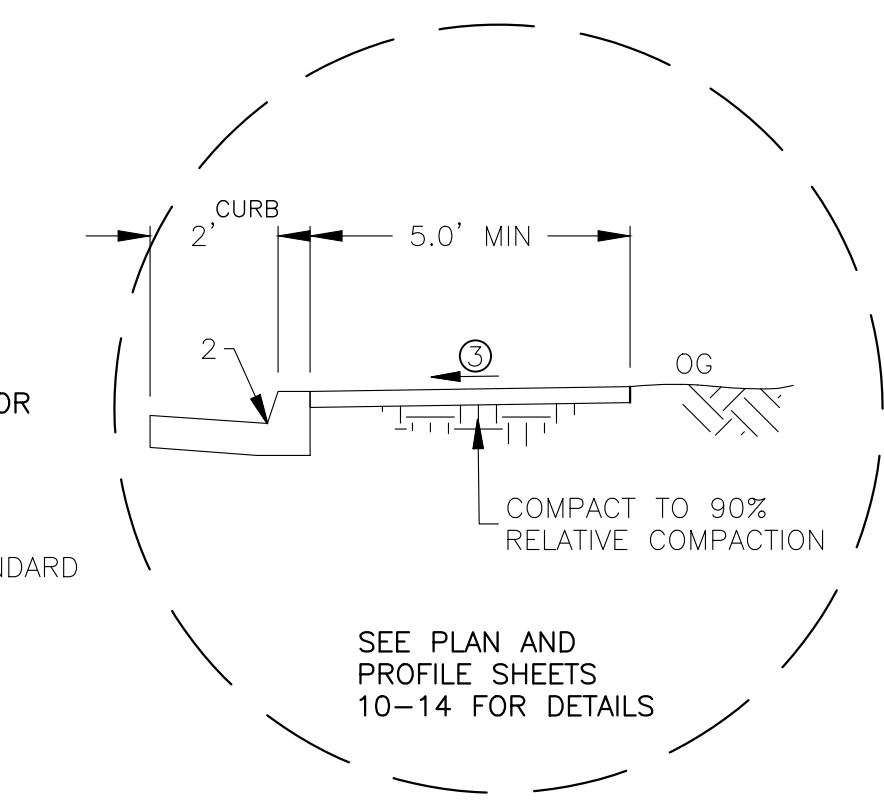
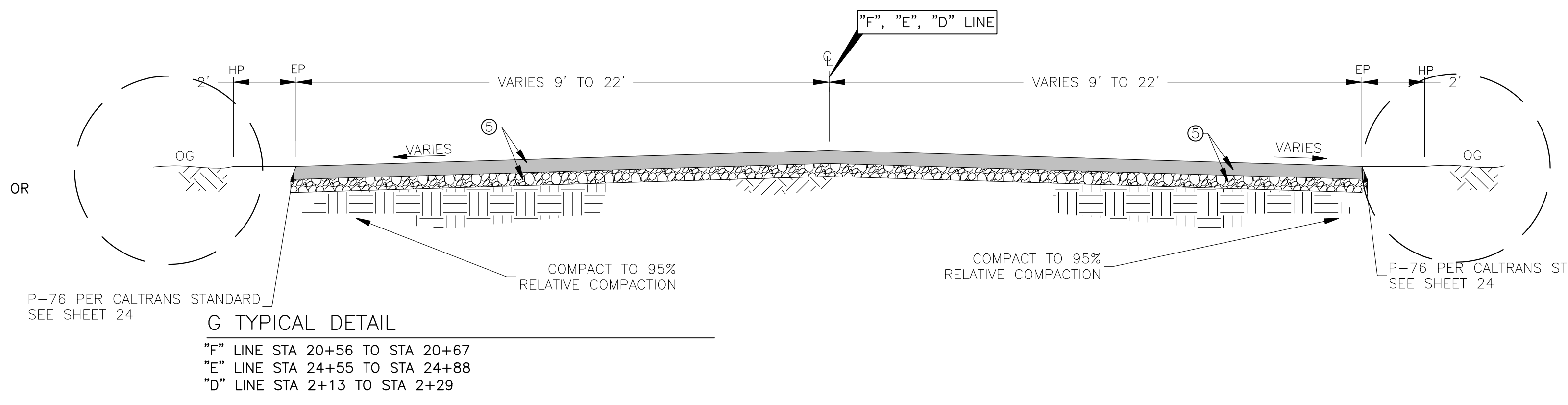
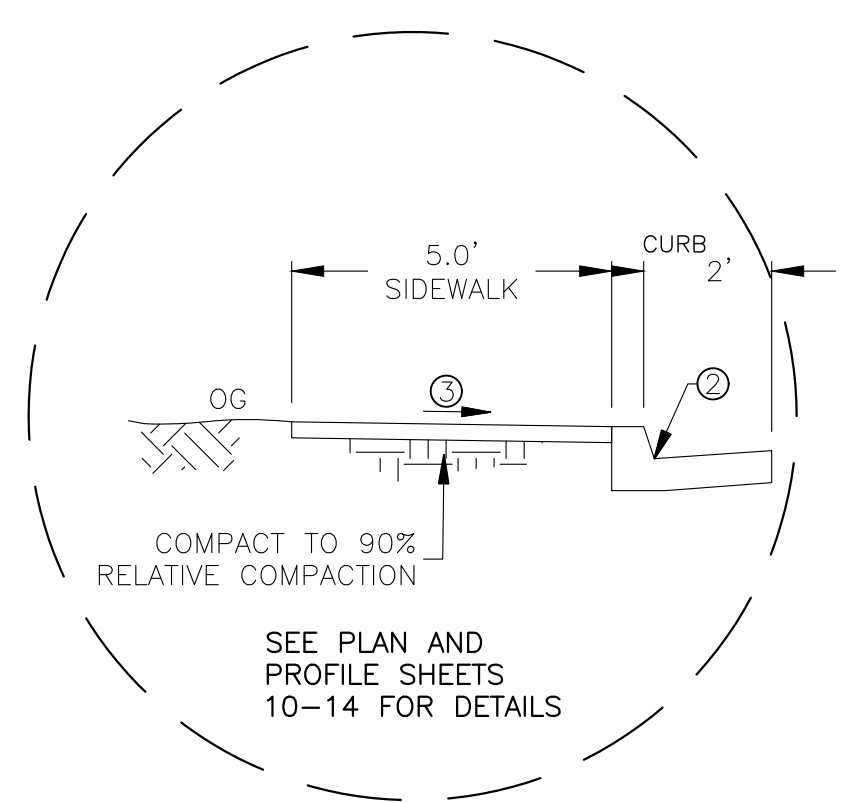
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DRAWN: EC	2-15-24	RESIDENT ENGINEER	0 20' 40'	 SUPERVISING ENGINEER	BIOLA COMMUNITY SIDEWALK IMPROVEMENTS	
CHECKED: S. ARTAL	2-15-24					
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				2-15-24 DATE	No. C76724 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA	DRAWING NO. 11320 SHEET NO. 21 TOTAL 32



- NOTES:
- REFER TO ROADWAY PLANS FOR EXTENT OF SLURRY SEAL WORK
 - ① CUT NEAT LINE AT CENTERLINE UNLESS OTHERWISE NOTED
 - ② CURB AND GUTTER PER CITY OF FRESNO STANDARD P-5. SEE SHEET 20 FOR CONCRETE CURB, GUTTER & SIDEWALK DETAILS
 - ③ 3.5" THICK SIDEWALK PER CITY OF FRESNO STANDARD P-5 CROSS SLOPE PER DESIGN (2.0% MAX - 1% MIN CROSS SLOPE)
 - ④ PLANTER AREA SHALL HAVE ZERO (0) PERCENT SLOPE
 - ⑤ PAVEMENT STRUCTURAL SECTION 0.35' HMA / 0.35' AB / 0.50' CNS
 - ⑥ EXISTING PAVEMENT STRUCTURE
 - ⑦ SHOULDER MAX SLOPE 5%, 2' WIDE
 - ⑧ CROSS SLOPE TO MATCH EXISTING TRAVEL LANE SLOPE
 - ⑨ GRIND 0.15' AND OVERLAY, MATCH TO EXISTING EP
 - ⑩ PAVEMENT STRUCTURAL SECTION 0.20' HMA / 0.35' AB / 0.50' CNS

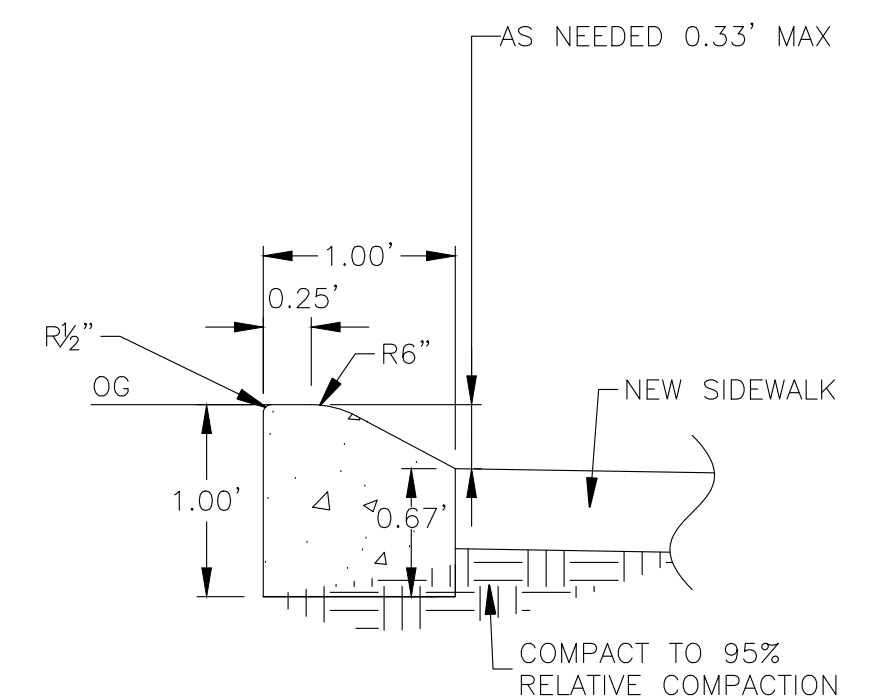
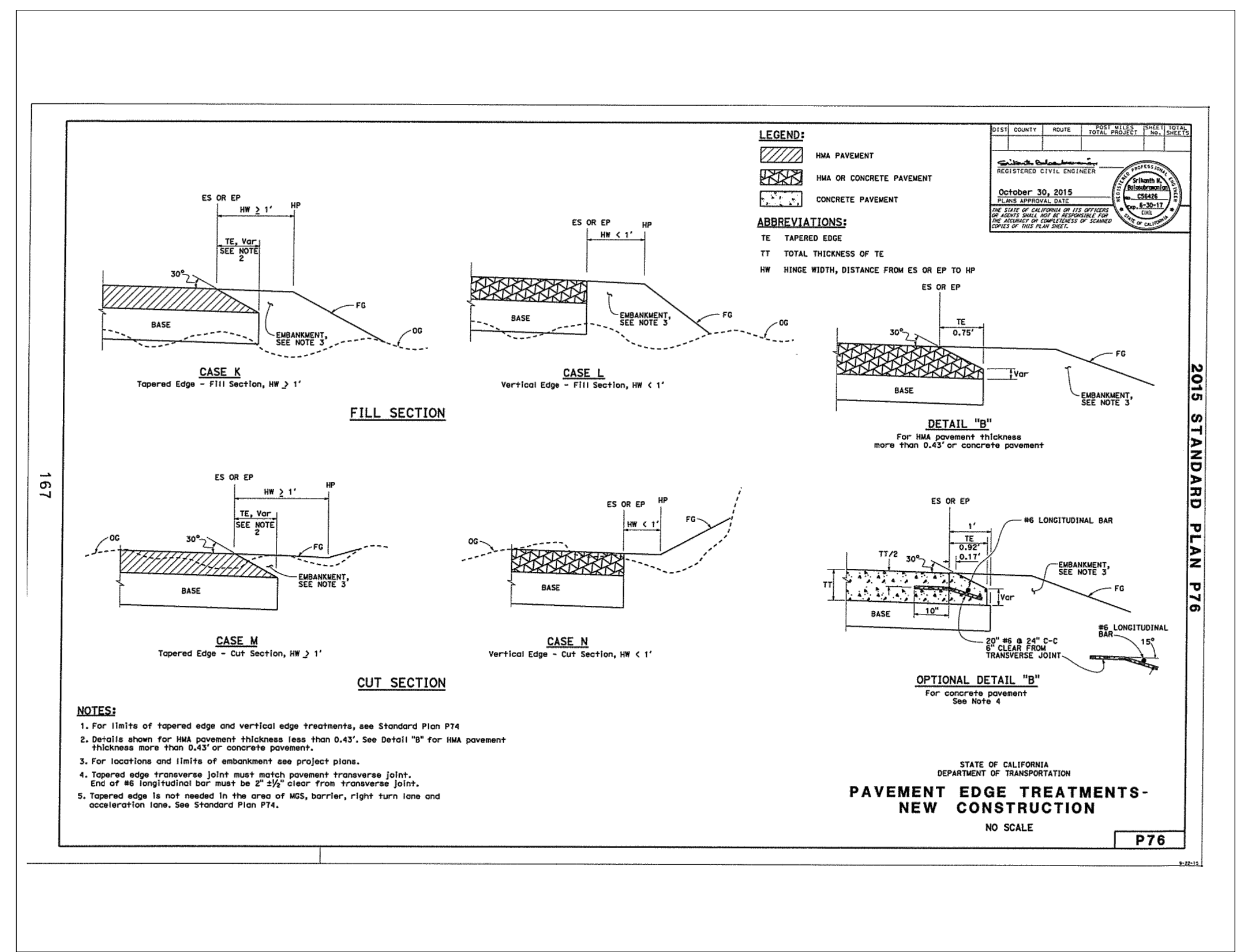
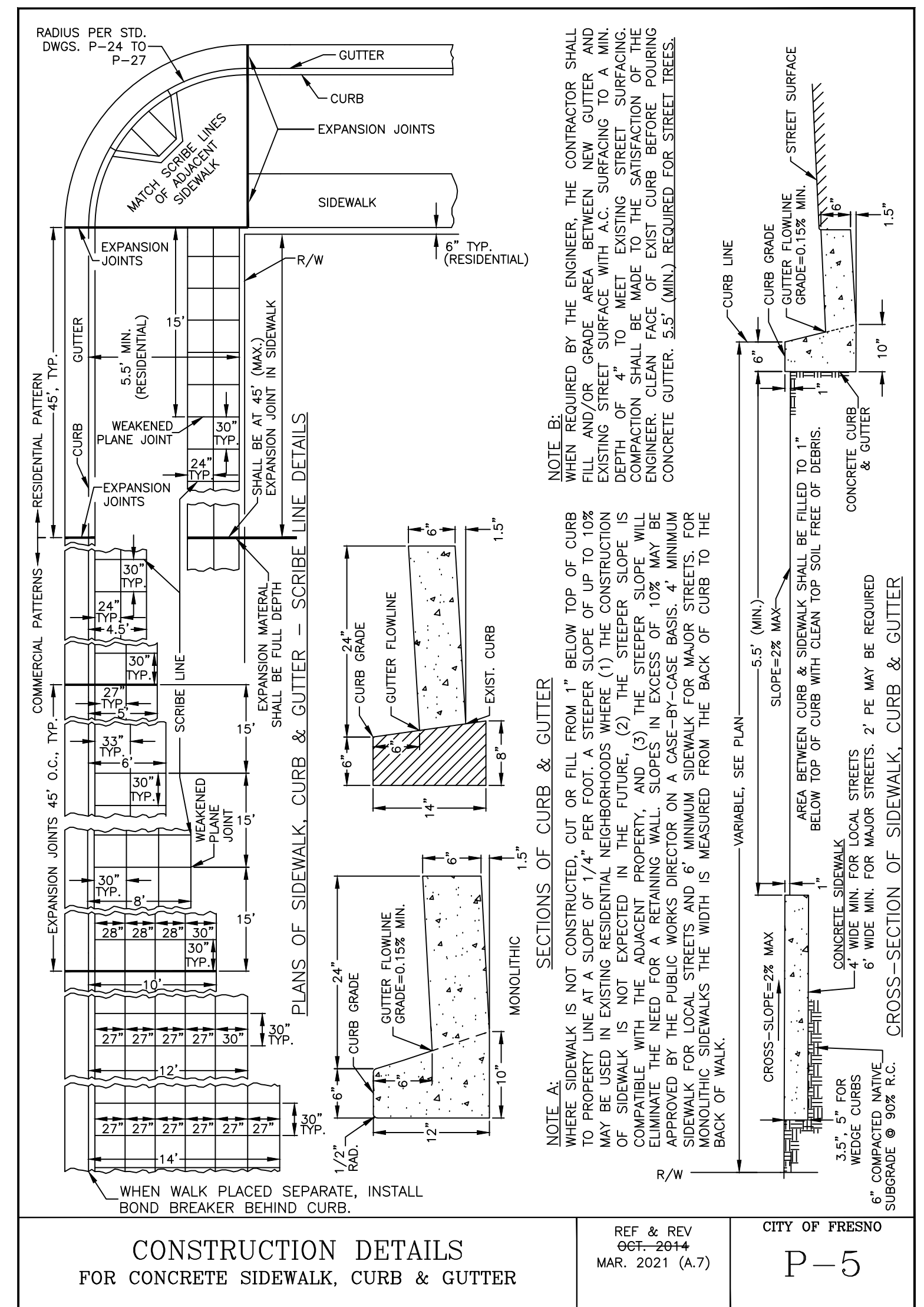
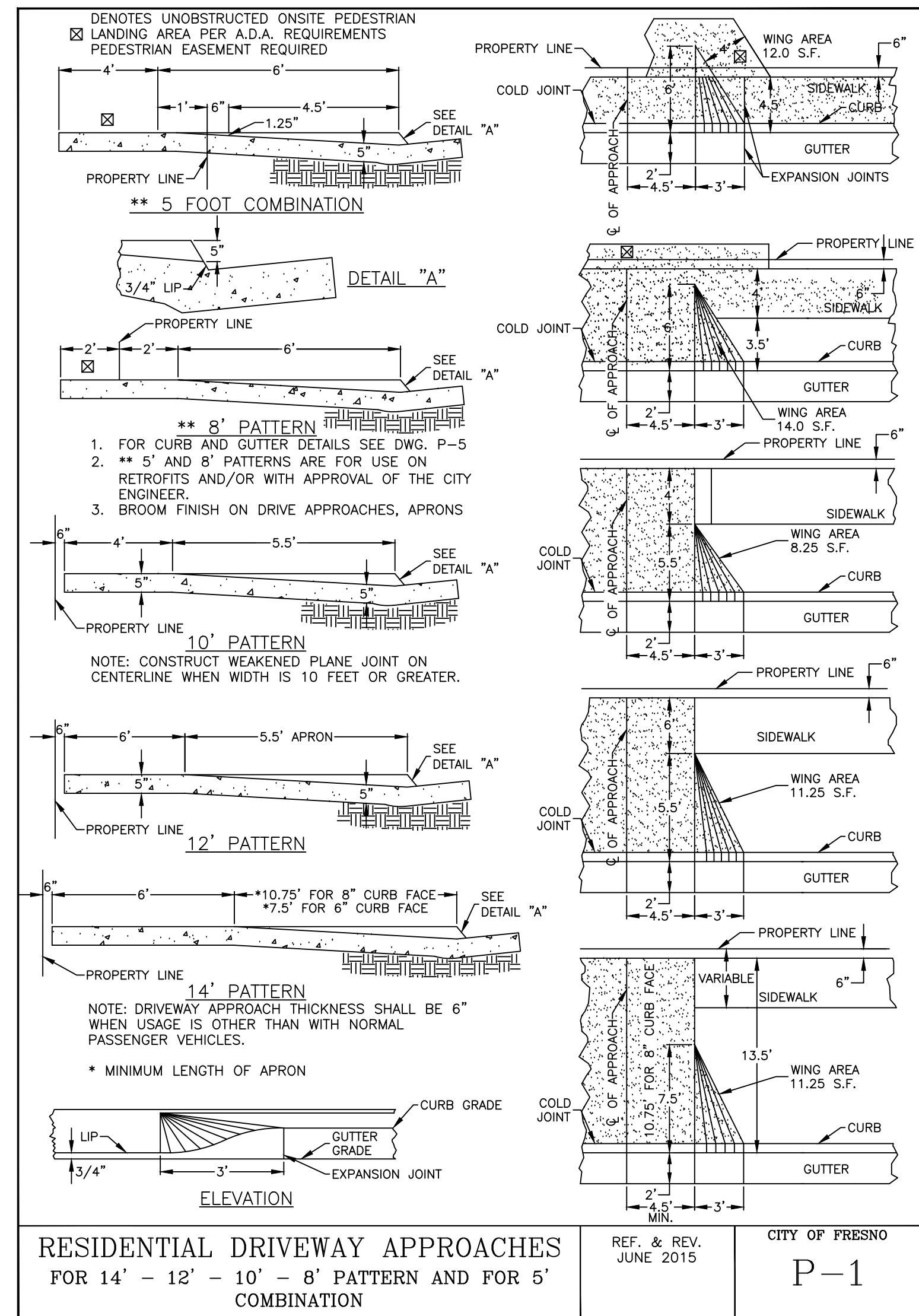
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DRAWN: EC	DATE: 2-15-24	RESIDENT ENGINEER	DATE				
CHECKED: S. ARTAL	DATE: 2-15-24						

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



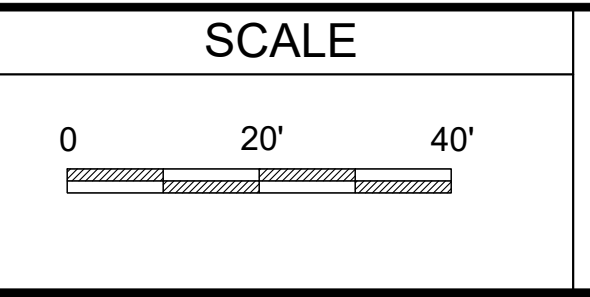
- ① CUT NEAT LINE AT CENTERLINE UNLESS OTHERWISE NOTED
- ② CURB AND GUTTER PER CITY OF FRESNO STANDARD P-5. SEE SHEET 20 FOR CONCRETE CURB, GUTTER & SIDEWALK DETAILS
- ③ 3.5" THICK SIDEWALK PER CITY OF FRESNO STANDARD P-5 CROSS SLOPE PER DESIGN(2.0% MAX - 1% MIN CROSS SLOPE)
- ④ PLANTER AREA SHALL HAVE ZERO (0) PERCENT SLOPE
- ⑤ PAVEMENT STRUCTURAL SECTION 0.35' HMA / 0.35' AB / 0.50' CNS
- ⑥ EXISTING PAVEMENT STRUCTURE
- ⑦ SHOULDER MAX SLOPE 5%, 2' WIDE
- ⑧ CROSS SLOPE TO MATCH EXISTING TRAVEL LANE SLOPE
- ⑨ GRIND 0.15' AND OVERLAY, MATCH TO EXISTING EP

DESIGNED: DK		DATE: 2-15-24	RECORD DRAWING		SCALE			PROJECT			DEPARTMENT OF PUBLIC WORKS AND PLANNING		
DRAWN: EC		DATE: 2-15-24	RESIDENT ENGINEER		0 20' 40'			BIOLA COMMUNITY SIDEWALK IMPROVEMENTS			CONSTRUCTION DETAILS (2)		
CHECKED: S. ARTAL		DATE: 2-15-24	DATE		SUPERVISING ENGINEER			ROAD NO. W1250			DRAWING NO. 11320		
			DATE		DATE			BRIDGE NO. N/A			SHEET NO. 23		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.												TOTAL 32	

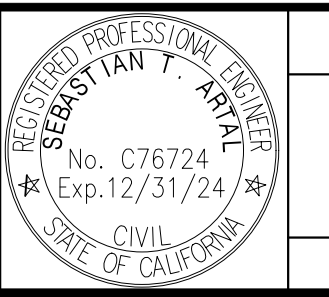


MOUNTABLE CURB BEHIND SIDEWALK
SHEETS 12, 13 & 17

DESIGNED: DK	DATE: 2-15-24	RECORD DRAWING	DATE
DRAWN: EC	2-15-24	RESIDENT ENGINEER	
CHECKED: S. ARTAL	2-15-24		



[Signature]
SUPERVISING ENGINEER
DATE: 2-15-24



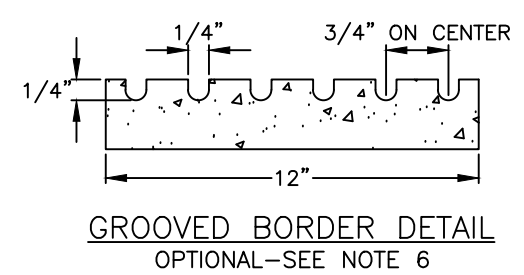
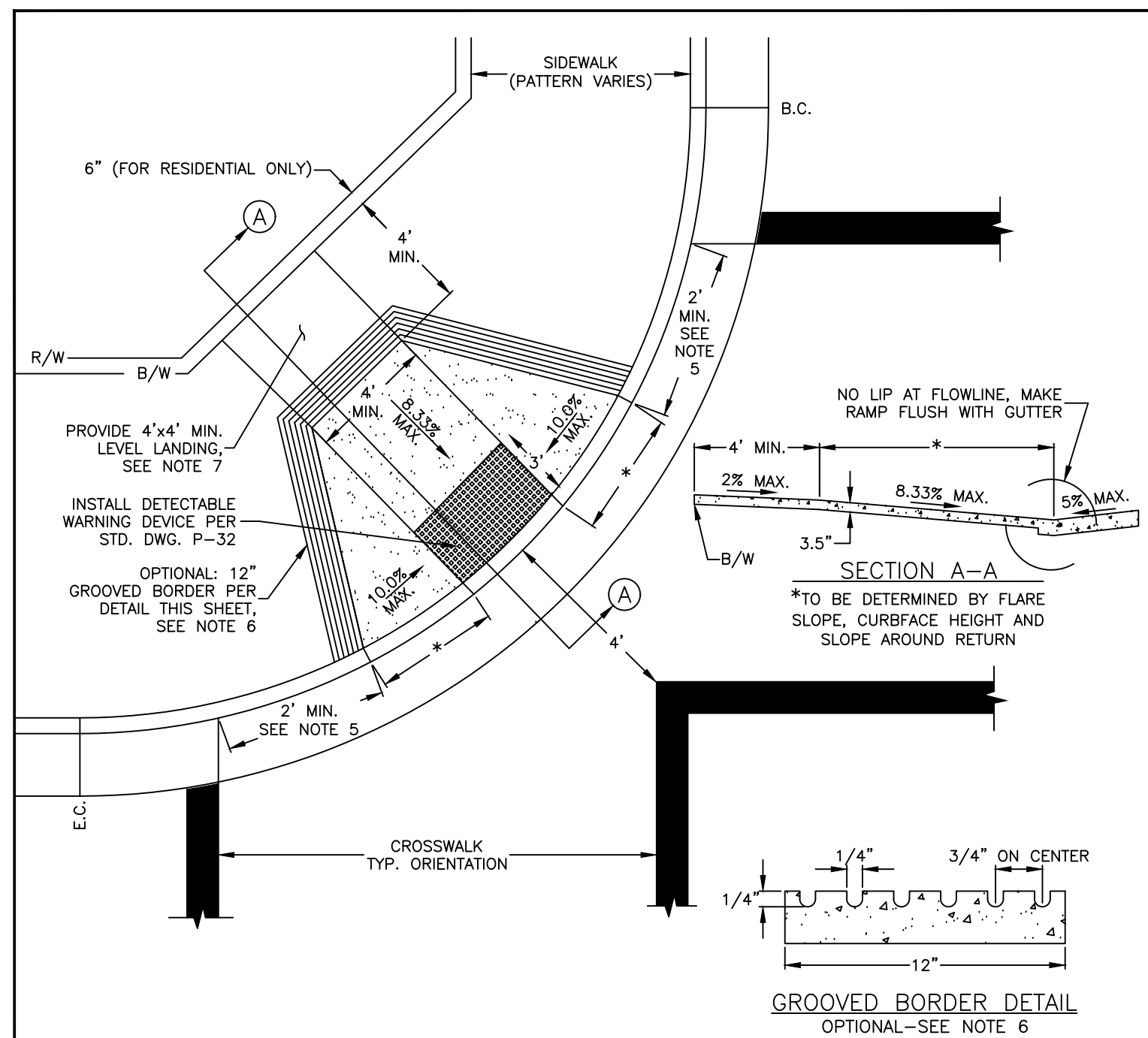
PROJECT
BIOLA COMMUNITY SIDEWALK IMPROVEMENTS

ROAD NO. W1250 BRIDGE NO. N/A



DEPARTMENT OF PUBLIC WORKS AND PLANNING
CONSTRUCTION DETAIL CG & SDWK

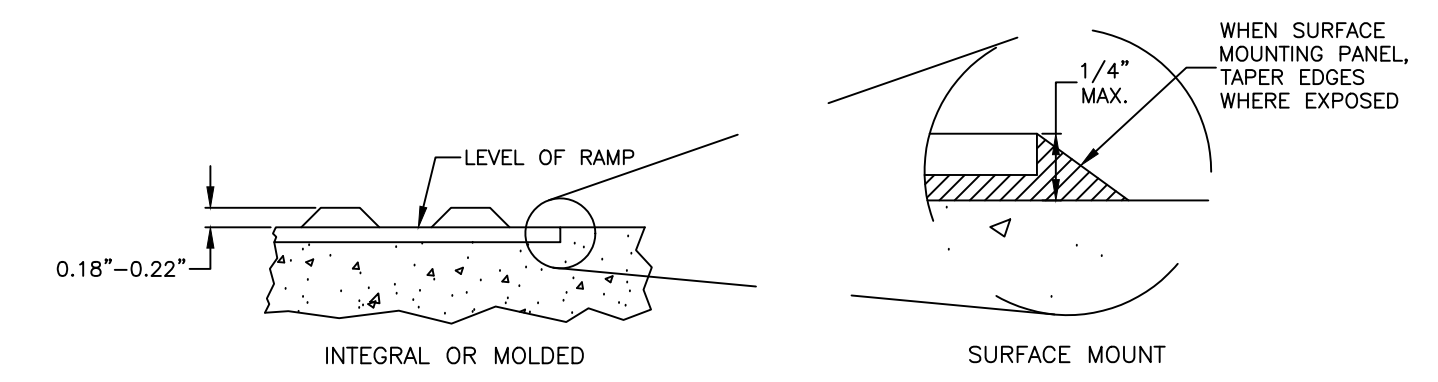
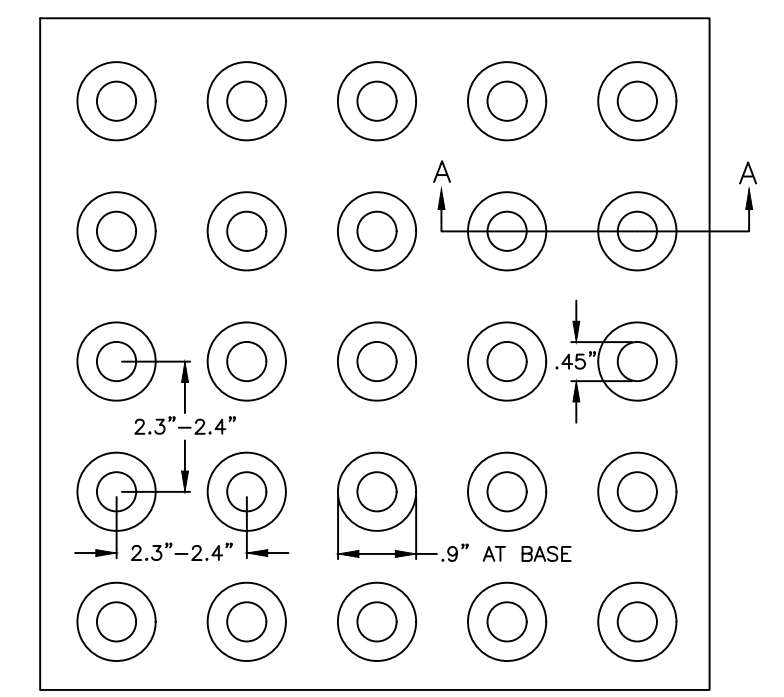
DRAWING NO. 11320 SHEET NO. 24 TOTAL 32



- NOTES:**
1. TRANSITIONS FROM RAMPS AND LANDING TO WALK, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
 2. SURFACE OF CURB RAMP AND FLARED SIDES SHALL HAVE A MEDIUM BROOM FINISH TRANSVERSE TO PATH OF TRAVEL AND SHALL BE OF CONTRASTING FINISH TO THAT OF ADJACENT SIDEWALK.
 3. RAMP SLOPE SHALL NEVER EXCEED 8.33% AND THE FLARED SIDES SHALL NOT EXCEED 10%.
 4. THE SLOPE OF ADJOINING GUTTERS, ROAD SURFACE OR ACCESSIBLE ROUTE WITHIN 4' OF THE BOTTOM OF THE RAMP SHALL NOT EXCEED 5% SLOPE.
 5. THERE SHALL BE A SEGMENT OF STRAIGHT CURB, AT LEAST 2.0' FEET LONG, ON EACH SIDE OF THE CURB RAMP, AS MEASURED FROM WITHIN THE MARKED CROSSWALK.
 6. (OPTIONAL) PROVIDE A 12" WIDE, GROOVED, BORDER AT THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP OF THE RAMP AND EACH FLARE. GROOVES SHALL BE APPROX. 1/4" DEEP, 1/4" WIDE AND SPACED 3/4" ON CENTER.
 7. PROVIDE A MINIMUM 4' DEEP LEVEL LANDING ON UPPER END AND OVER FULL WIDTH OF RAMP. MAINTAIN A 2% MAX. SLOPE, ANY DIRECTION.
 8. THE 4' CLEAR SPACE AT BOTTOM OF RAMP SHALL BE WITHIN THE MARKED CROSSINGS.
 9. RAMP SHALL BE MINIMUM OF 4' WIDE AND SHALL LIE GENERALLY IN A SINGLE SLOPED PLANE WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.
 10. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.

DIAGONAL CURB RAMP
(USE ONLY WHEN NECESSARY)

REF. & REV. AUG-2019 MAR. 2021 (A.7)
CITY OF FRESNO
P-28

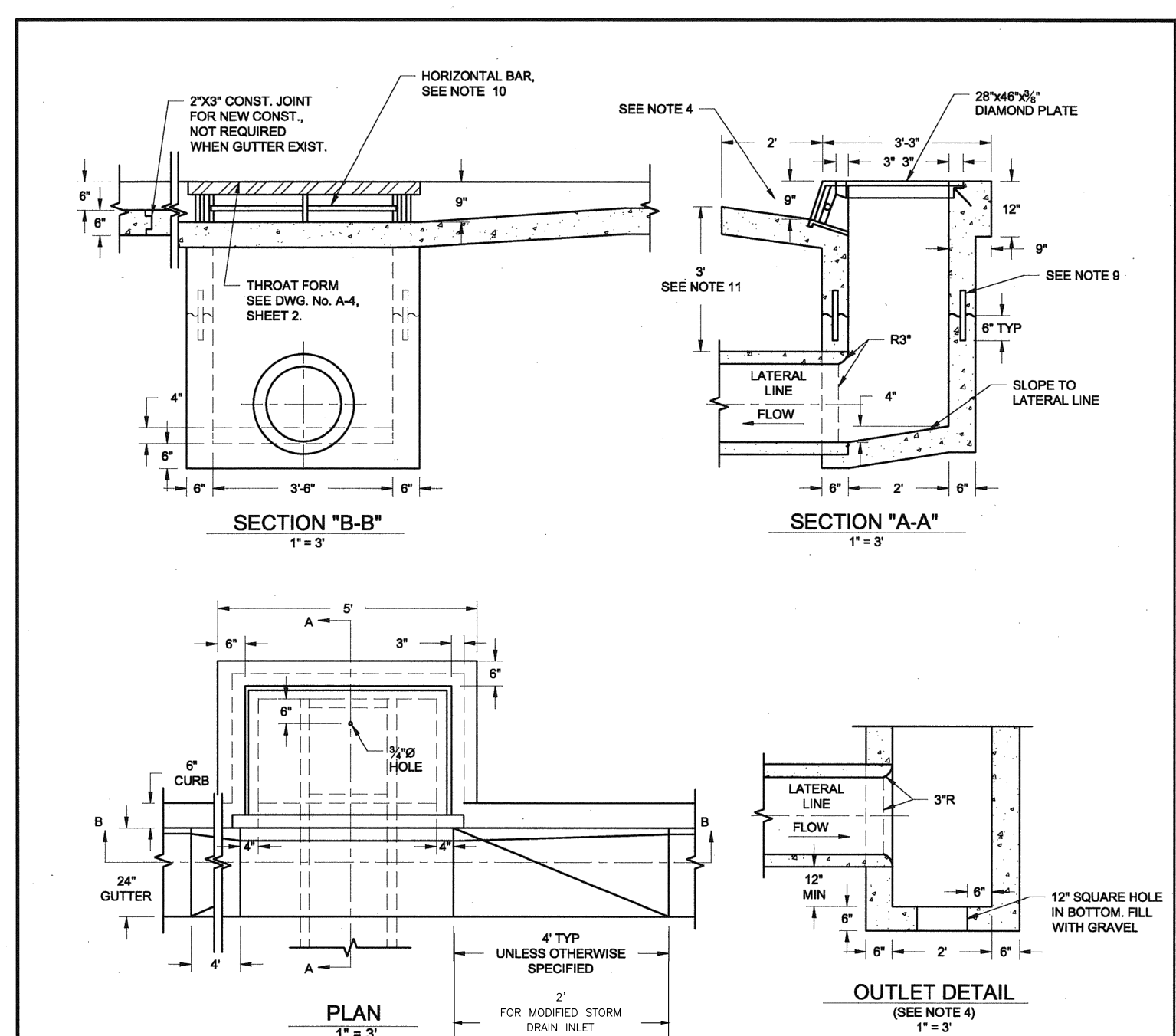


- NOTES:**
1. THE DETECTABLE WARNING SHALL VISUALLY CONTRAST PER THE CALIFORNIA BUILDING CODE, LATEST REVISION. THE MATERIAL USED SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. THE COLOR SHALL BE YELLOW AND APPROXIMATE FS 33538 OF SAE AMS-STD-595A.
 2. THE DOMES MAY BE CONSTRUCTED IN A VARIETY OF METHODS INCLUDING CAST-IN-PLACE OR STAMPED. IT MAY ALSO BE PART OF A PREFABRICATED SURFACE TREATMENT, SEE SURFACE MOUNT DETAIL.
 3. ONLY APPROVED DSA/AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, ARTICLES 2, 3 AND 4. REFER TO CCR TITLE 24, PART 12, CHAPTER 12-11A AND B FOR BUILDING FACILITY ACCESS SPECIFICATIONS FOR PRODUCT APPROVAL FOR DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES.
 4. DETECTABLE WARNING PRODUCTS AND DETECTABLE SURFACES SHALL BE EVALUATED BY AN INDEPENDENT ENTITY, SELECTED BY THE DEPARTMENT OF GENERAL SERVICES, DIVISION OF THE STATE ARCHITECT-ACCESS COMPLIANCE FOR ALL OCCUPANCIES, INCLUDING TRANSPORTATION AND OTHER OUTDOOR ENVIRONMENTS. SEE GOVERNMENT CODE SECTION 4460.

DETECTABLE WARNING DEVICES

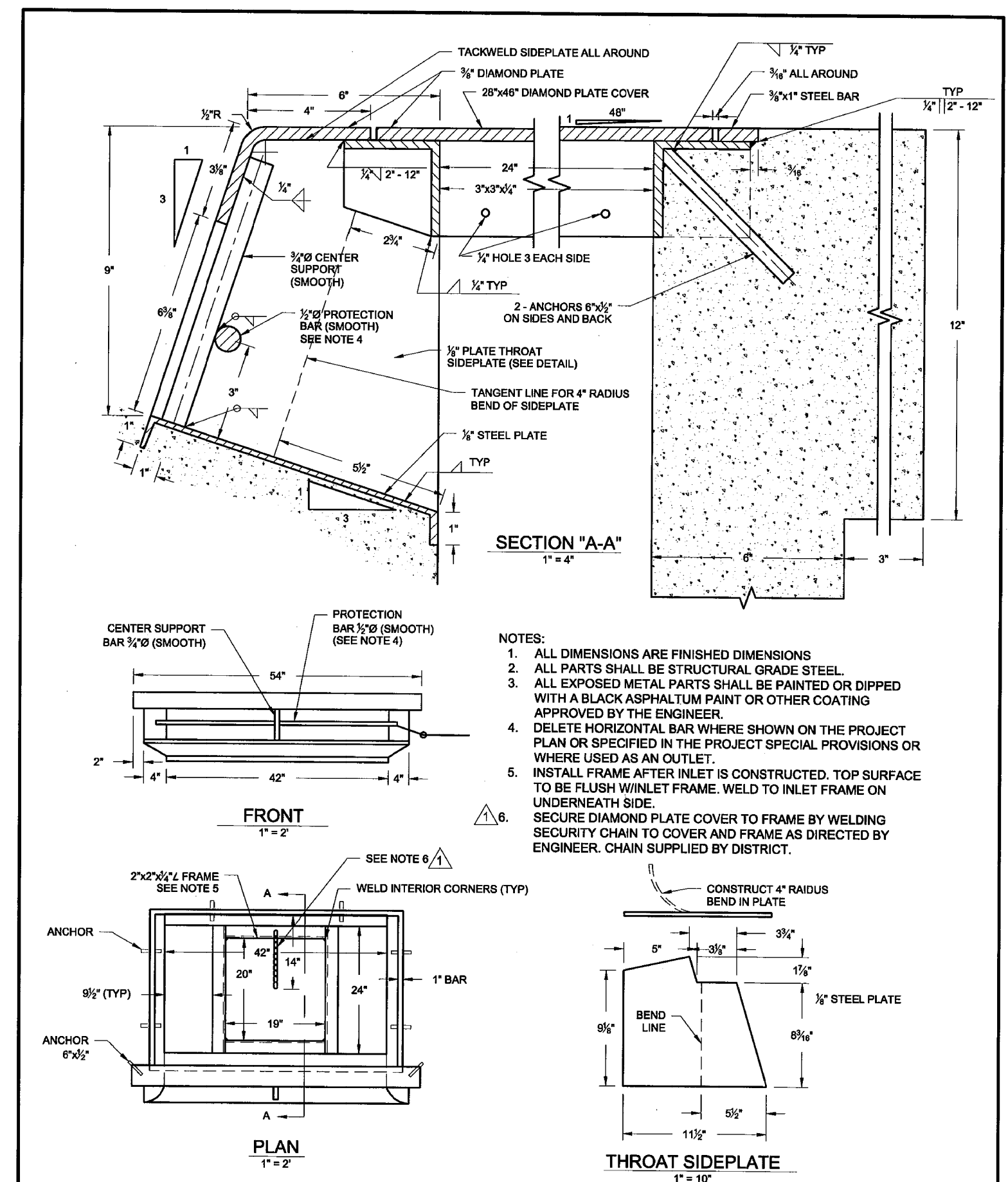
REF. & REV. AUG-2019 JUNE 2014 MAR-2021 (A.7) JAN. 2023 (A.8)
CITY OF FRESNO
P-32

DESIGNED: DK	DATE: 2-15-24	RECORD DRAWING: RESIDENT ENGINEER	SCALE: 0 20' 40'	 SUPERVISING ENGINEER DATE: 2-15-24	PROJECT: BIOLA COMMUNITY SIDEWALK IMPROVEMENTS ROAD NO. W1250 BRIDGE NO. N/A	 DEPARTMENT OF PUBLIC WORKS AND PLANNING CONSTRUCTION DETAIL RAMPS
DRAWN: EC	DATE: 2-15-24					
CHECKED: S. ARTAL	DATE: 2-15-24					
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						DRAWING NO. 11320 SHEET NO. 25 TOTAL 32



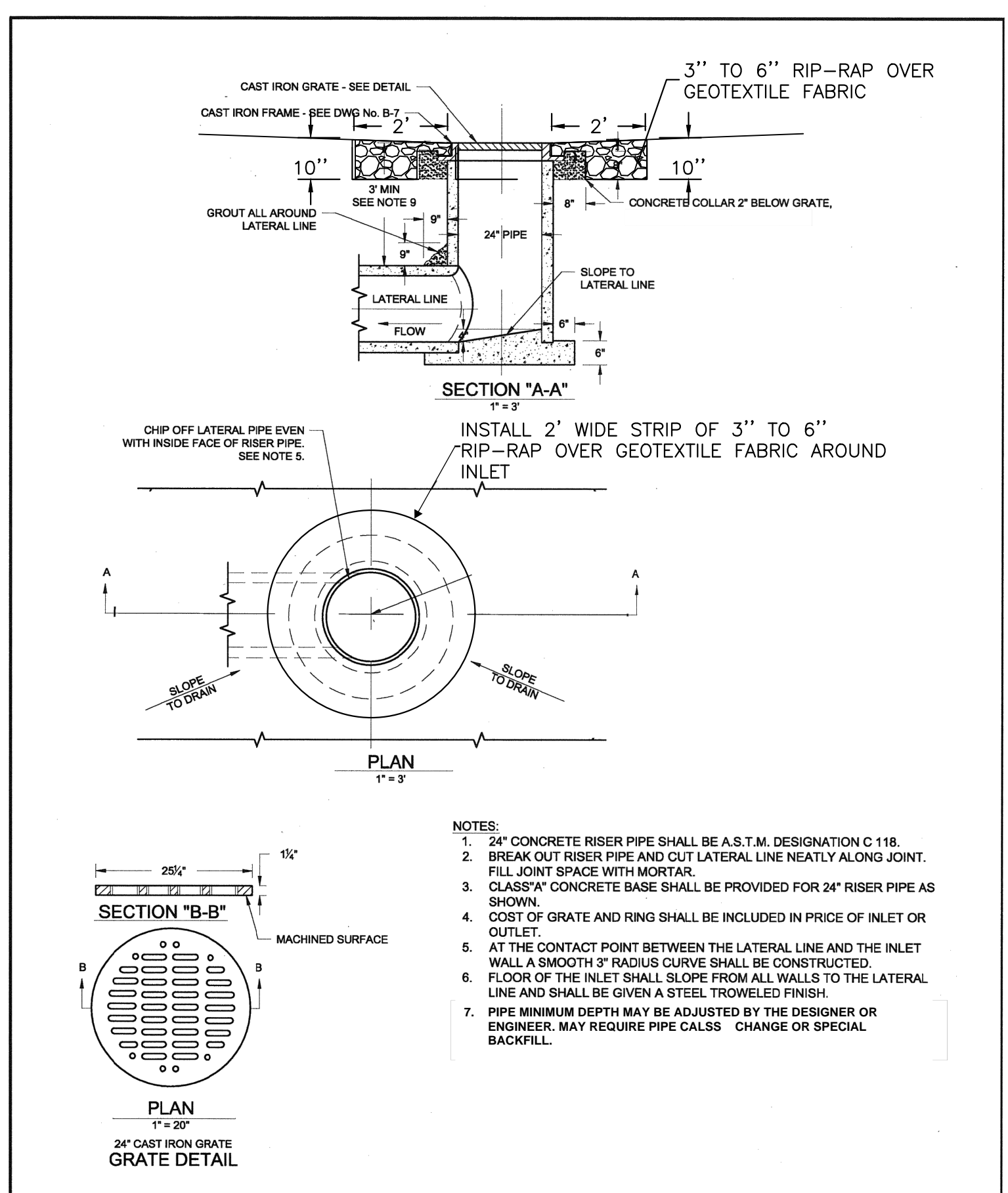
- NOTES:
1. THE INLET MAY BE MODIFIED SLIGHTLY TO MATCH EXISTING IMPROVEMENTS, AS DIRECTED BY THE ENGINEER.
 2. STRUCTURE SHALL BE CLASS 'A' CONCRETE. EXPOSED SURFACES SHALL BE FINISHED AS PER CURB SPECIFICATIONS.
 3. COST OF FRAME AND GRATE AND THROAT FORM SHALL BE INCLUDED IN PRICE OF INLET OR OUTLET.
 4. WHEN EMPLOYED AS OUTLET, PLACE GUTTER CONCRETE TO 6" BELOW TOP OF CURB GRADE.
 5. 4" CURB AND GUTTER WINGS SHALL BE INCLUDED IN THE PRICE OF THE INLET/OUTLET.
 6. ADDITIONAL CURB AND GUTTER SHALL BE CONSTRUCTED OR RECONSTRUCTED ON EACH SIDE OF BOX AS INDICATED ON THE PLANS AND COST THEREOF SHALL BE INCLUDED IN PRICE OF INLET OR OUTLET.
 7. FLOOR OF THE INLET SHALL SLOPE FROM ALL WALLS TO THE LATERAL LINE AND SHALL BE GIVEN A STEEL TROWELED FINISH. AT THE CONTACT POINT BETWEEN THE LATERAL LINE AND THE INLET WALL A SMOOTH 3" RADIUS CURVE SHALL BE CONSTRUCTED.
 8. IF INLET IS CONSTRUCTED IN A TWO STAGE POUR, PROVIDE A ROUGHENED CONSTRUCTION JOINT AND PLACE ONE No. 4 BAR 12" LONG IN EACH OF THE FOUR WALLS, AS SHOWN.
 9. DELETE HORIZONTAL BAR WHERE SHOWN ON THE PROJECT PLANS OR SPECIFIED IN THE PROJECT SPECIAL PROVISIONS, OR WHERE USED AS AN OUTLET.
 10. PIPE MINIMUM DEPTH MAY BE ADJUSTED BY THE DESIGNER OR ENGINEER. MAY REQUIRE PIPE CLASS CHANGE OR SPECIAL BACKFILL.

REVISIONS			FRESNO METROPOLITAN FLOOD CONTROL DISTRICT		TYPE "D" INLET/OUTLET FOR 6" CURB & GUTTER	
MARK	DATE	DESCRIPTION	APPROVED BY:	SCALE	DRAWING No.	
ADOPTED	4/1/2011		<i>[Signature]</i> DISTRICT ENGINEER	AS SHOWN	A-4	1 OF 2



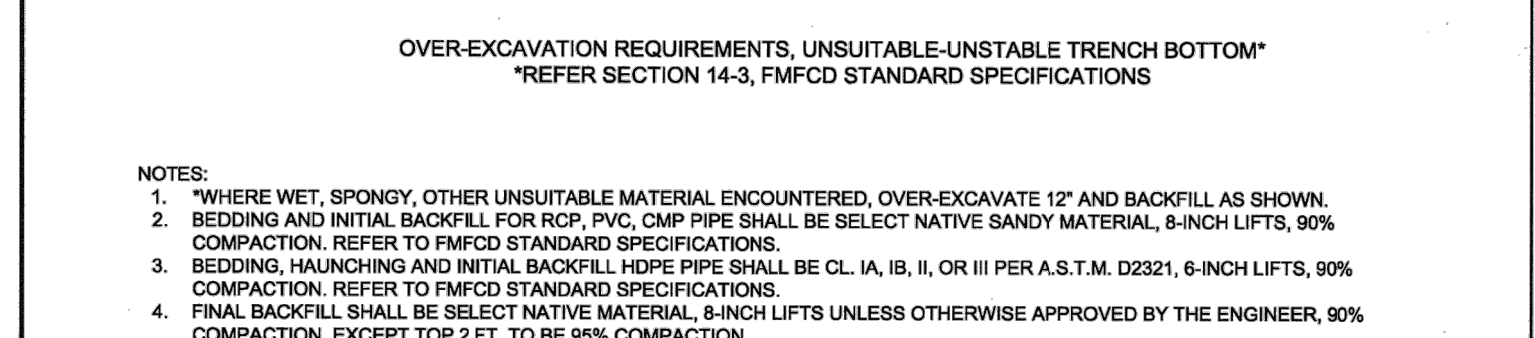
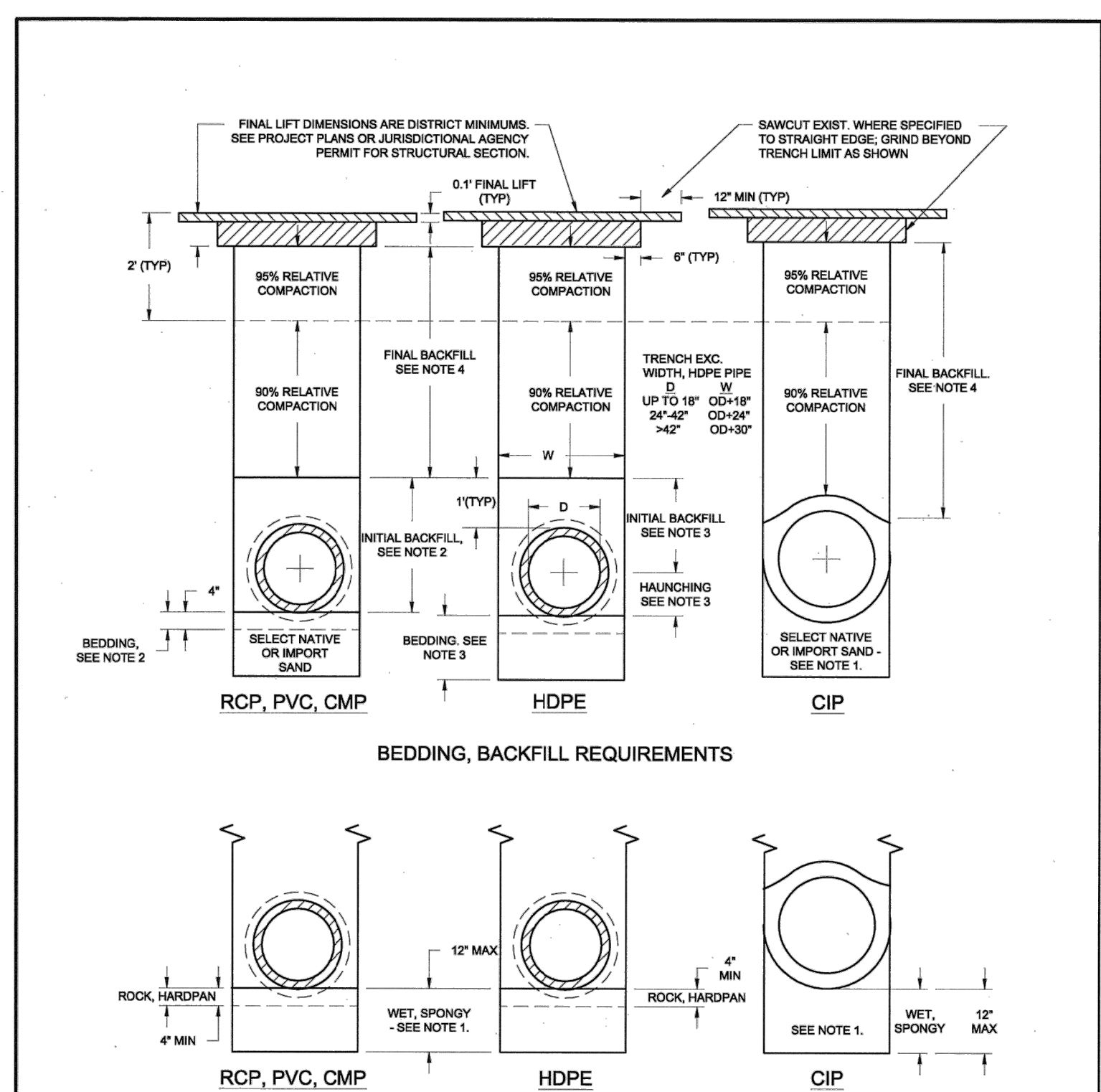
- NOTES:
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS
 2. ALL PARTS SHALL BE STRUCTURAL GRADE STEEL.
 3. ALL EXPOSED METAL PARTS SHALL BE PAINTED OR DIPPED WITH A BLACK ASPHALTUM PAINT OR OTHER COATING APPROVED BY THE ENGINEER.
 4. DELETE HORIZONTAL BAR WHERE SHOWN ON THE PROJECT PLAN OR SPECIFIED IN THE PROJECT SPECIAL PROVISIONS OR WHERE USED AS AN OUTLET.
 5. INSTALL FRAME AFTER INLET IS CONSTRUCTED. TOP SURFACE TO BE FLUSH WITH INLET FRAME. WELD TO INLET FRAME ON UNDERGATH SIDE.
 6. SECURE DIAMOND PLATE COVER TO FRAME BY WELDING SECURITY CHAIN TO COVER AND FRAME AS DIRECTED BY ENGINEER. CHAIN SUPPLIED BY DISTRICT.

REVISIONS			FRESNO METROPOLITAN FLOOD CONTROL DISTRICT		TYPE "D" INLET THROAT FORM & FRAME FOR 6" CURB & GUTTER	
MARK	DATE	DESCRIPTION	APPROVED BY:	SCALE	DRAWING No.	
ADOPTED	4/1/2011		<i>[Signature]</i> DISTRICT ENGINEER	AS SHOWN	A-4	2 OF 2



- NOTES:
1. 24" CONCRETE RISER PIPE SHALL BE A.S.T.M. DESIGNATION C 118.
 2. BREAK OUT RISER PIPE AND CUT LATERAL LINE NEATLY ALONG JOINT. FILL JOINT SPACE WITH MORTAR.
 3. CLASS 'A' CONCRETE BASE SHALL BE PROVIDED FOR 24" RISER PIPE AS SHOWN.
 4. COST OF GRATE AND RING SHALL BE INCLUDED IN PRICE OF INLET OR OUTLET.
 5. AT THE CONTACT POINT BETWEEN THE LATERAL LINE AND THE INLET WALL A SMOOTH 3" RADIUS CURVE SHALL BE CONSTRUCTED.
 6. FLOOR OF THE INLET SHALL SLOPE FROM ALL WALLS TO THE LATERAL LINE AND SHALL BE GIVEN A STEEL TROWELED FINISH.
 7. PIPE MINIMUM DEPTH MAY BE ADJUSTED BY THE DESIGNER OR ENGINEER. MAY REQUIRE PIPE CLASS CHANGE OR SPECIAL BACKFILL.

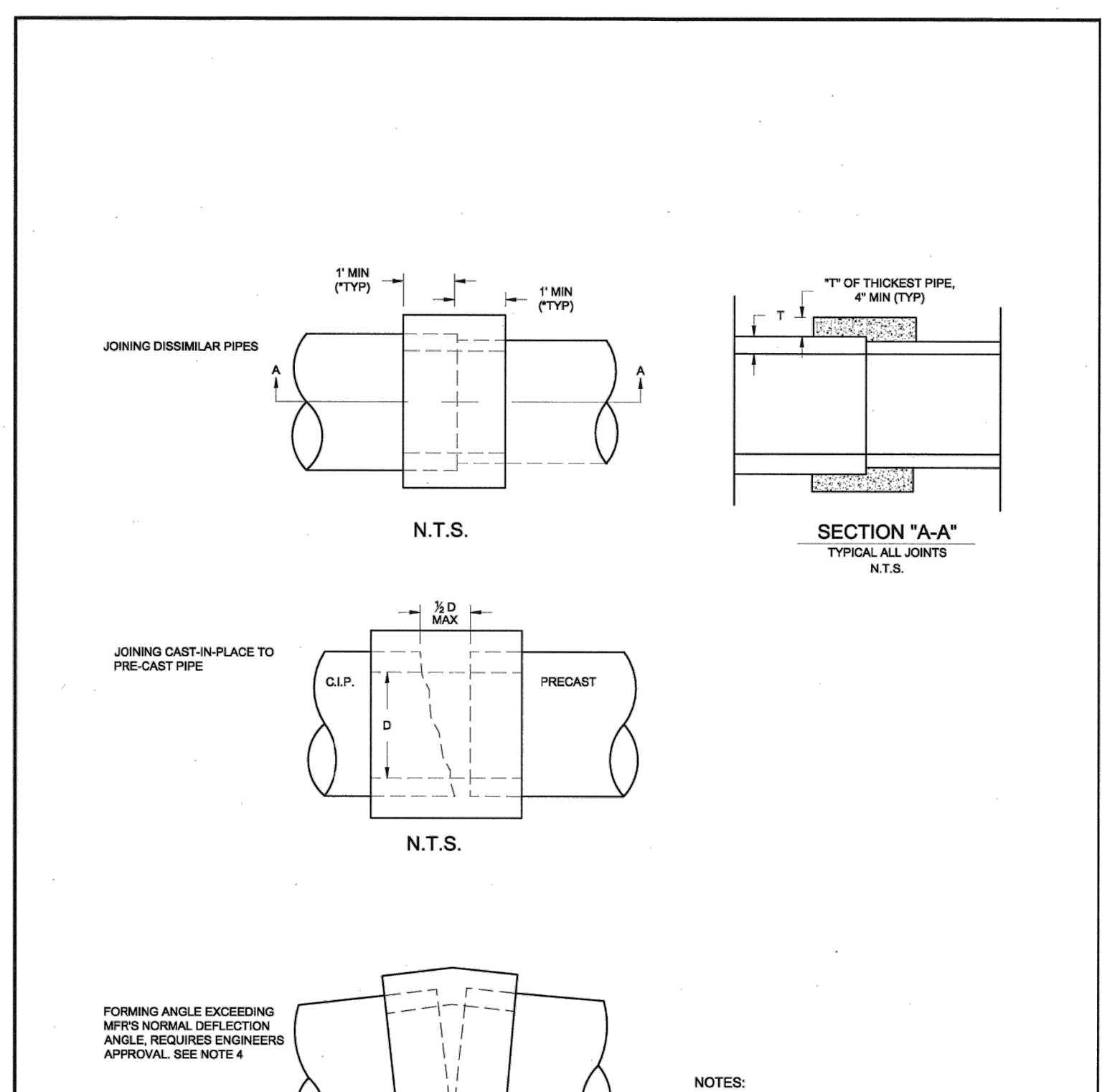
REVISIONS			FRESNO METROPOLITAN FLOOD CONTROL DISTRICT		TYPE "E" INLET TEMPORARY, WITH SLOTTED GRATE	
MARK	DATE	DESCRIPTION	APPROVED BY:	SCALE	DRAWING No.	
ADOPTED	4/1/2011		<i>[Signature]</i> DISTRICT ENGINEER	AS SHOWN	A-6	1 OF 1



REVISIONS			FRESNO METROPOLITAN FLOOD CONTROL DISTRICT	TRENCH EXCAVATION, BACKFILL, SURFACE RESTORATION
MARK	DATE	DESCRIPTION		
ADOPTED	4/1/2011			

APPROVED BY: *[Signature]* DATE: 4-1-11

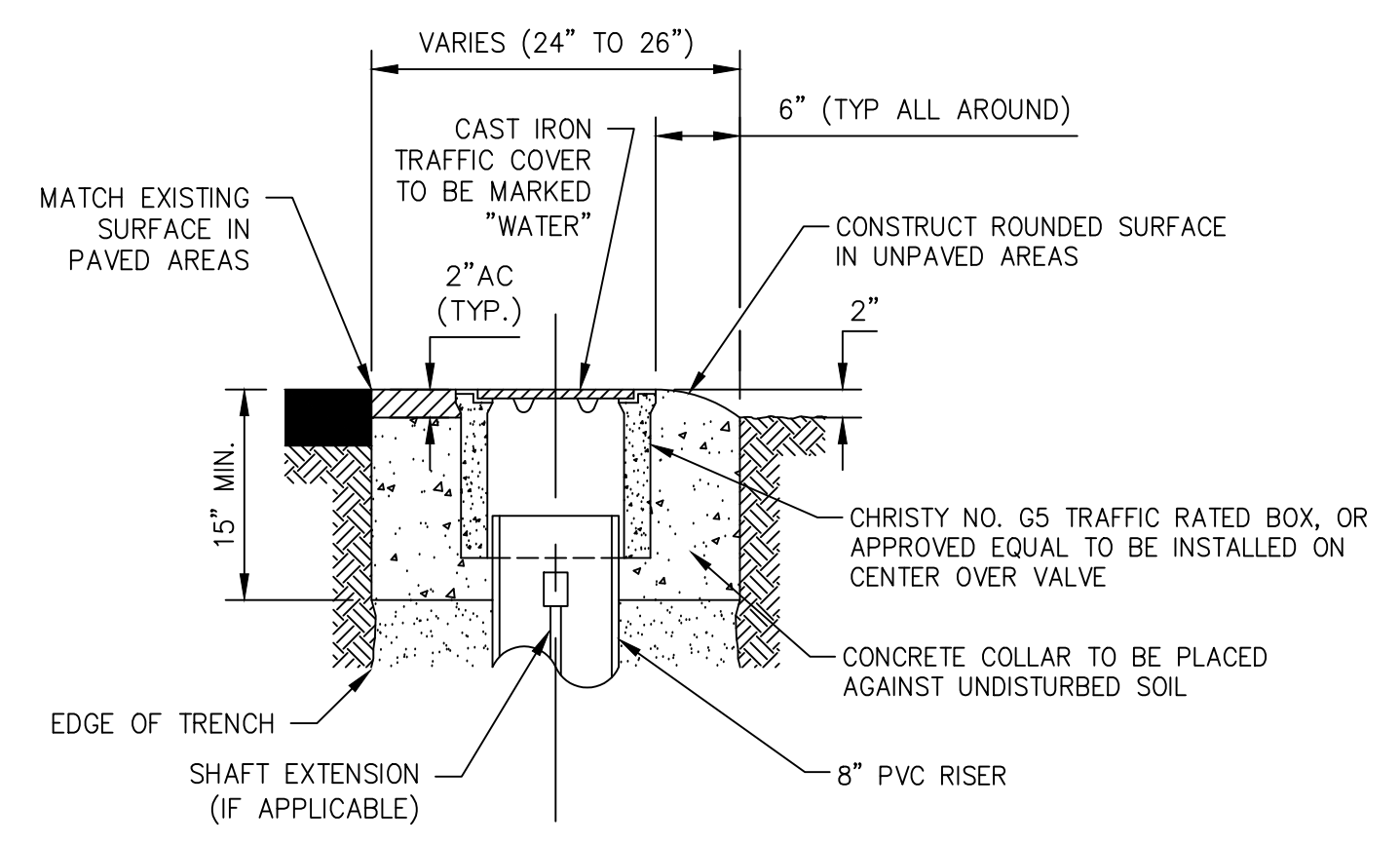
SCALE AS SHOWN DRAWING No. G-1 SHEET 1 OF 1



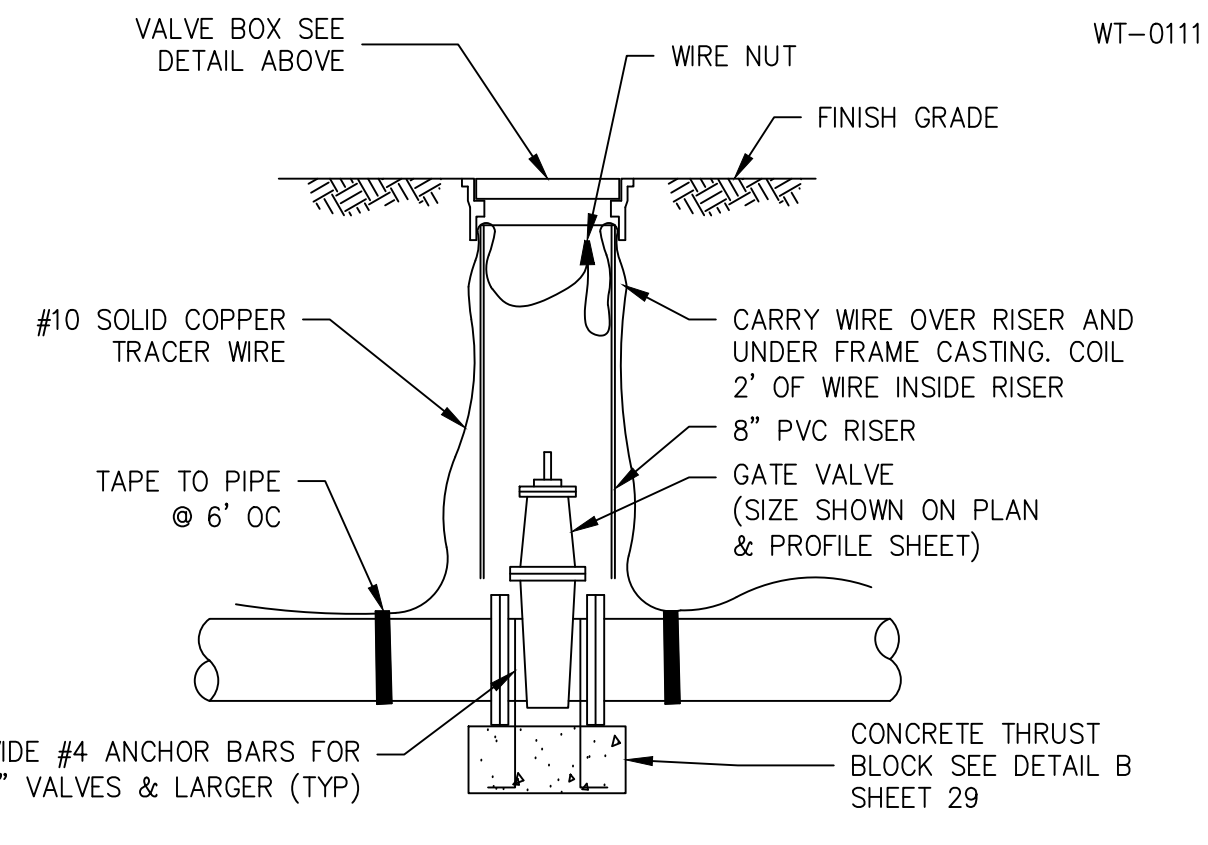
REVISIONS			FRESNO METROPOLITAN FLOOD CONTROL DISTRICT	CONSTRUCTION JOINT CONCRETE FIELD COLLAR
MARK	DATE	DESCRIPTION		
ADOPTED	4/1/2011			

APPROVED BY: *[Signature]* DATE: 4-1-11

SCALE AS SHOWN DRAWING No. G-3 SHEET 1 OF 1

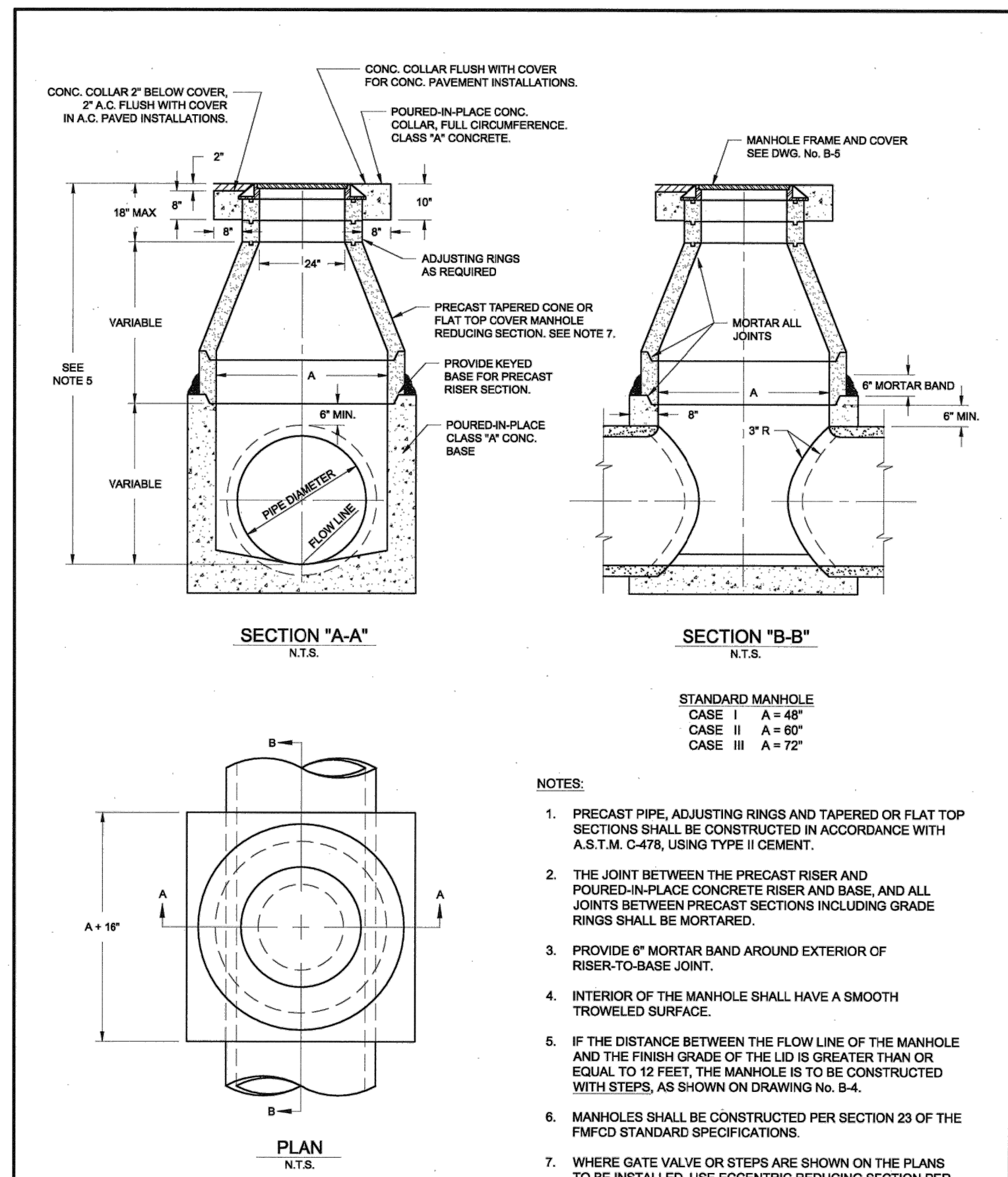


- NOTES:
- ADJUST VALVE BOX AND COVER TO FINISHED GRADE.
 - CONCRETE COLLAR SHALL BE CONSTRUCTED USING CLASS "A" CONCRETE.
 - APPLY PAINT BINDER TO EXPOSED SIDE OF VALVE BOX PRIOR TO PAVING.



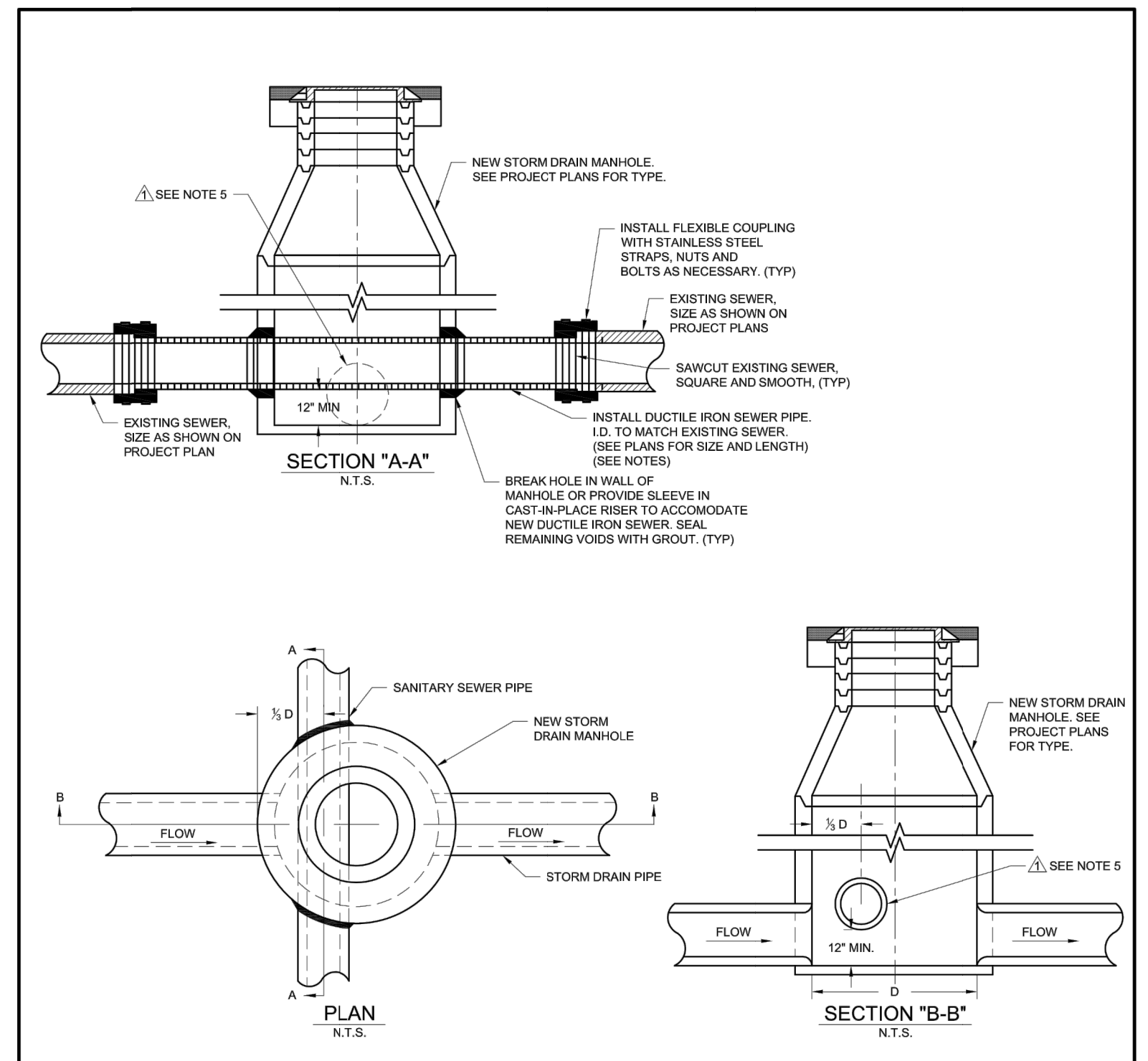
- NOTES:
- EXTENSION ROD REQUIRED WHEN DISTANCE FROM FINISHED GRADE IS GREATER THAN 36" CONSTRUCT CONCRETE COLLAR.
 - PROVIDE AT LEAST 6" OF OVERLAP BETWEEN RISER PIPES.
 - THRUST BLOCK ANCHORAGE REQUIRED FOR NON-FLANGED FITTINGS. ASSUME DEAD END CONDITION WITH #4 REBAR.
 - THRUST BLOCK SHALL EXTEND A MINIMUM OF 6" BEYOND THE EDGE OF THE VALVE BODY ON EACH SIDE.
- NOT TO SCALE

VALVE & VALVE BOX INSTALLATION | W-7



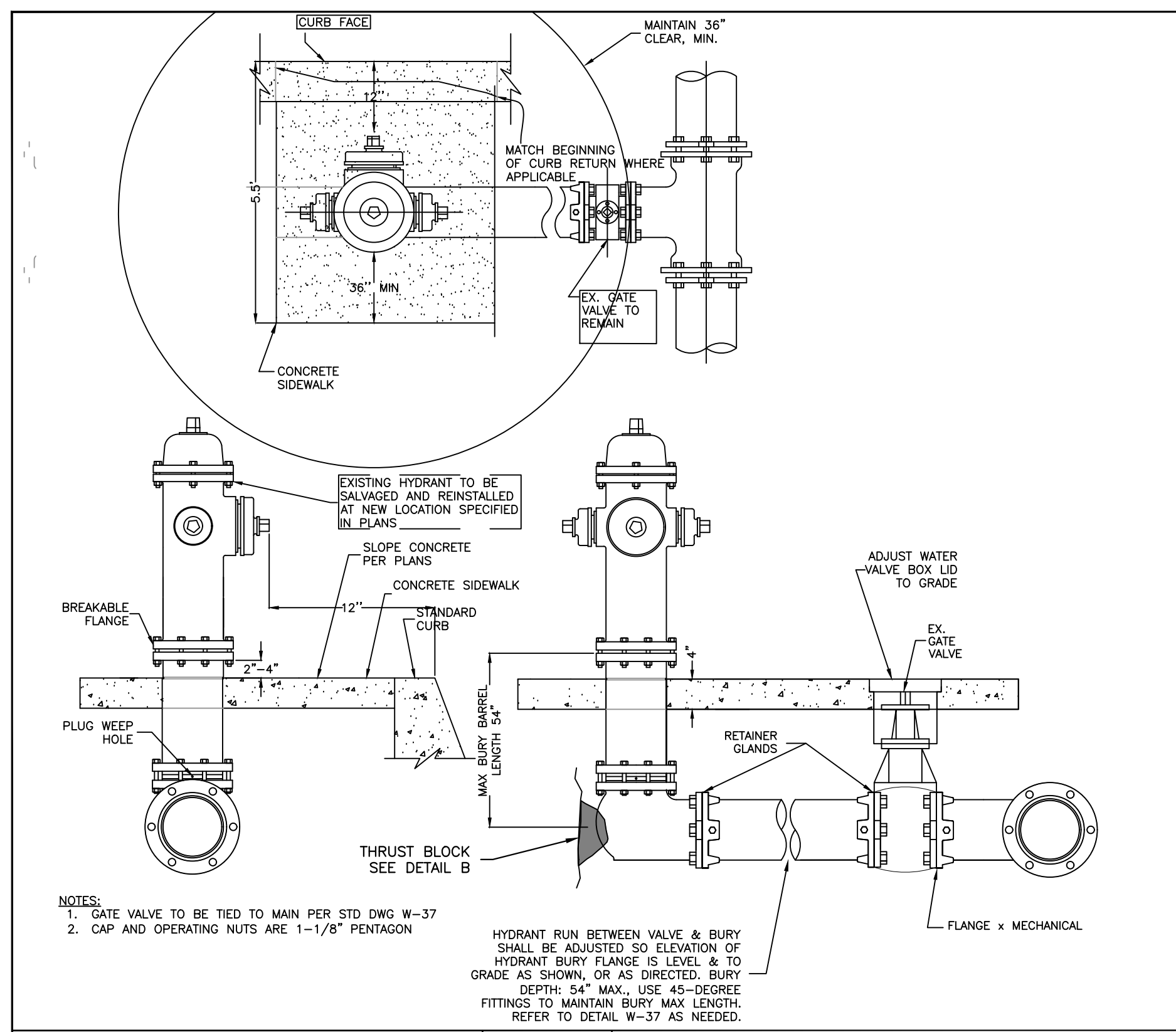
- STANDARD MANHOLE CASE**
CASE I A = 48"
CASE II A = 60"
CASE III A = 72"
- NOTES:**
1. PRECAST PIPE, ADJUSTING RINGS AND TAPERED OR FLAT TOP SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH A.S.T.M. C-478, USING TYPE II CEMENT.
 2. THE JOINT BETWEEN THE PRECAST RISER AND POURED-IN-PLACE CONCRETE RISER AND BASE, AND ALL JOINTS BETWEEN PRECAST SECTIONS INCLUDING GRADE RINGS SHALL BE MORTARED.
 3. PROVIDE 6" MORTAR BAND AROUND EXTERIOR OF RISER-TO-BASE JOINT.
 4. INTERIOR OF THE MANHOLE SHALL HAVE A SMOOTH TROWELED SURFACE.
 5. IF THE DISTANCE BETWEEN THE FLOW LINE OF THE MANHOLE AND THE FINISH GRADE OF THE LID IS GREATER THAN OR EQUAL TO 12 FEET, THE MANHOLE IS TO BE CONSTRUCTED WITH STEPS, AS SHOWN ON DRAWING No. B-4.
 6. MANHOLES SHALL BE CONSTRUCTED PER SECTION 23 OF THE FMCD STANDARD SPECIFICATIONS.
 7. WHERE GATE VALVE OR STEPS ARE SHOWN ON THE PLANS TO BE INSTALLED, USE ECCENTRIC REDUCING SECTION PER DRAWING No. B-4 OR G-5, SHT 2.

REVISIONS			FRESNO METROPOLITAN FLOOD CONTROL DISTRICT		TYPE "A" MANHOLE CASE I, II & III	
MARK	DATE	DESCRIPTION	APPROVED BY:		SCALE	DRAWING No.
ADOPTED	4/1/2011		[Signature]		AS SHOWN	B-1
			DISTRICT ENGINEER			SHEET 1 OF 3



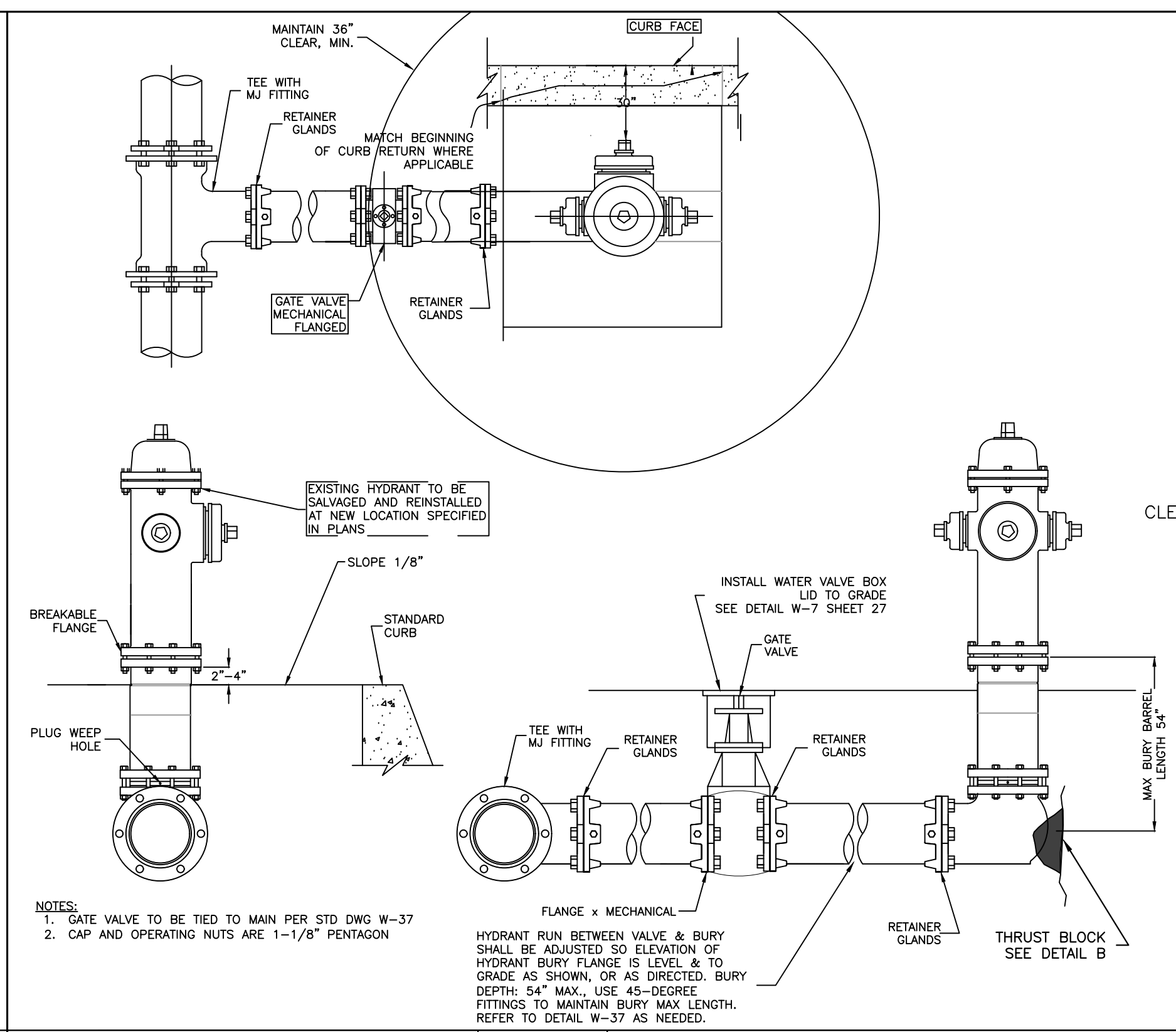
- NOTES:**
1. DUCTILE IRON (DI) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AWWA C150 OR BETTER. THE PIPE SHALL BE MANUFACTURED WITH STANDARD CAST IRON PIPE OUTSIDE DIAMETERS, AND THE NOMINAL LAYING LENGTH OF EACH JOINT SHALL BE 18 FEET.
 2. THE INTERIOR SURFACE OF DI PIPE SHALL BE LINED WITH A FACTORY-APPLIED LINING OF EITHER:
A. PROTECTO 401 CERAMIC EPOXY LINING, A PRODUCT OF INDURON COATINGS, INC., AND HAVING A NOMINAL THICKNESS NO LESS THAN 40 MILS; OR
B. POLYBOND PLUS COMPOSITE FUSION-BONDED EPOXY AND POLYETHYLENE LINING, A PRODUCT OF AMERICAN CAST IRON PIPE COMPANY, AND HAVING A NOMINAL THICKNESS NO LESS THAN 60 MILS; OR
C. APPROVED EQUAL FACTORY APPLICATION OF THE LINING, AND ANY NECESSARY FIELD APPLICATIONS FOR REPAIRS, SHALL CONFORM TO THE RECOMMENDATIONS OF THE LINING MANUFACTURER AND THE PIPE MANUFACTURER.
 3. THE PIPE EXTERIOR SHALL HAVE A STANDARD ASPHALTIC COATING, AND WRAPPED WITH A GREEN, 8-MIL POLYETHYLENE WRAP CONFORMING TO THE PROVISIONS IN AWWA/ANSI C105/A21.5. THE POLYETHYLENE WRAP SHALL BE MARKED WITH THE WORDS "CAUTION: RAW SEWAGE."
 4. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMIT FROM THE JURISDICTION AGENCY BEFORE INTERRUPTING SEWER FLOW OR CUTTING SEWER PIPE.
 5. THE SEWER PIPE CONFLICT SHALL LIE WITHIN THE UPPER 1/3 OF THE STORM DRAIN PIPE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

REVISIONS			FRESNO METROPOLITAN FLOOD CONTROL DISTRICT		SANITARY SEWER THROUGH STORM DRAIN MANHOLE	
MARK	DATE	DESCRIPTION	APPROVED BY:		SCALE	DRAWING No.
Δ	1-1-2012	NOTE ADDED	[Signature]		AS SHOWN	C-1
ADOPTED	4/1/2011		DISTRICT ENGINEER			SHEET 1 OF 1



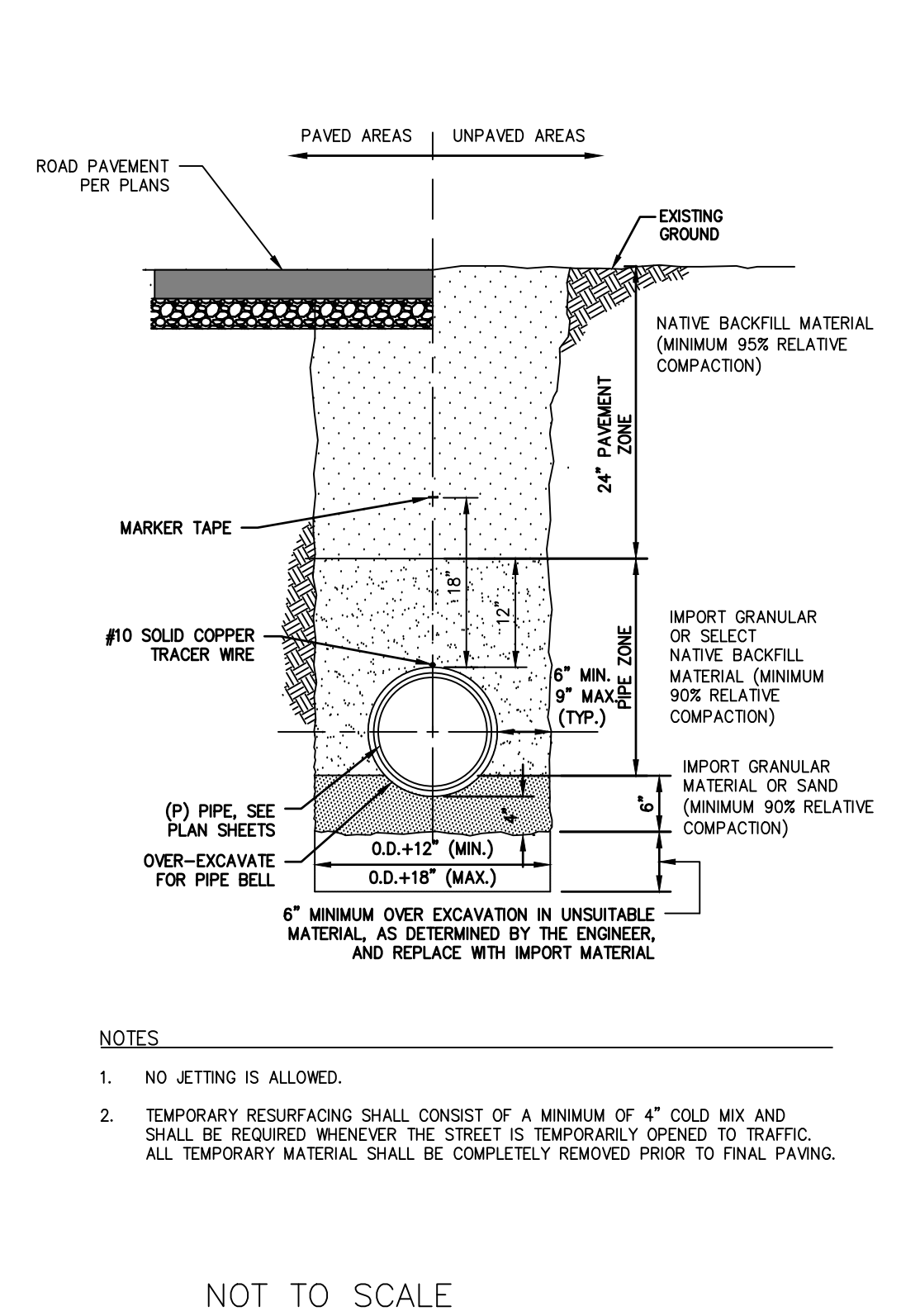
FIRE HYDRANT INSTALLATION

W-3A



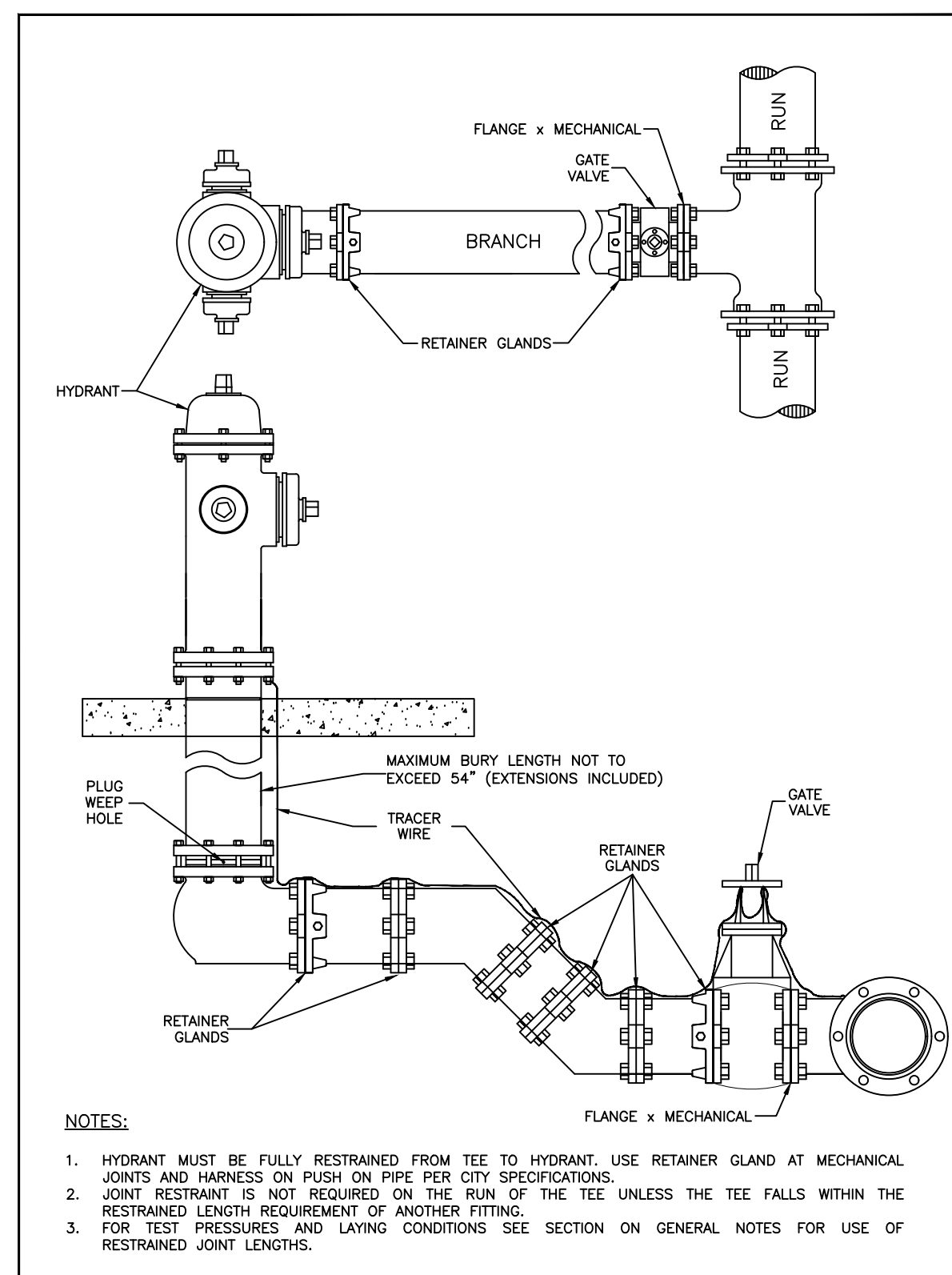
FIRE HYDRANT INSTALLATION

W-3B



PIPE BEDDING AND TRENCH BACKFILL

W-29



HYDRANT RUN TEE RESTRAINT FOR PVC OR DUCTILE IRON PIPE

REF. & REV. SHEET: 2009 MAR. 2021 (A-7) CITY OF FRESNO W-37

ALL FITTINGS TO BE WRAPPED IN 4 MIL VISQUEEN

AREA OF CONCRETE BEARING AGAINST UNDISTURBED SOIL SQUARE FEET

PIPE SIZE	DEAD END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	1.8	2.5	1.4	0.7	0.3
8	3.1	4.4	2.4	1.2	0.6
10	4.9	6.9	3.8	1.9	1.0
12	7.0	10.0	5.4	2.8	1.4
14	9.5	13.6	7.4	3.8	1.9

BASED ON 2000 P.S.F. SOIL BEARING CAPACITY AND 125 P.S.I. STATIC PRESSURE - SPECIAL DESIGN REQUIRED FOR SOIL LESS THAN 2000 P.S.F. CONCRETE TO HAVE ULTIMATE STRENGTH OF 2500 P.S.I. @ 28 DAYS.

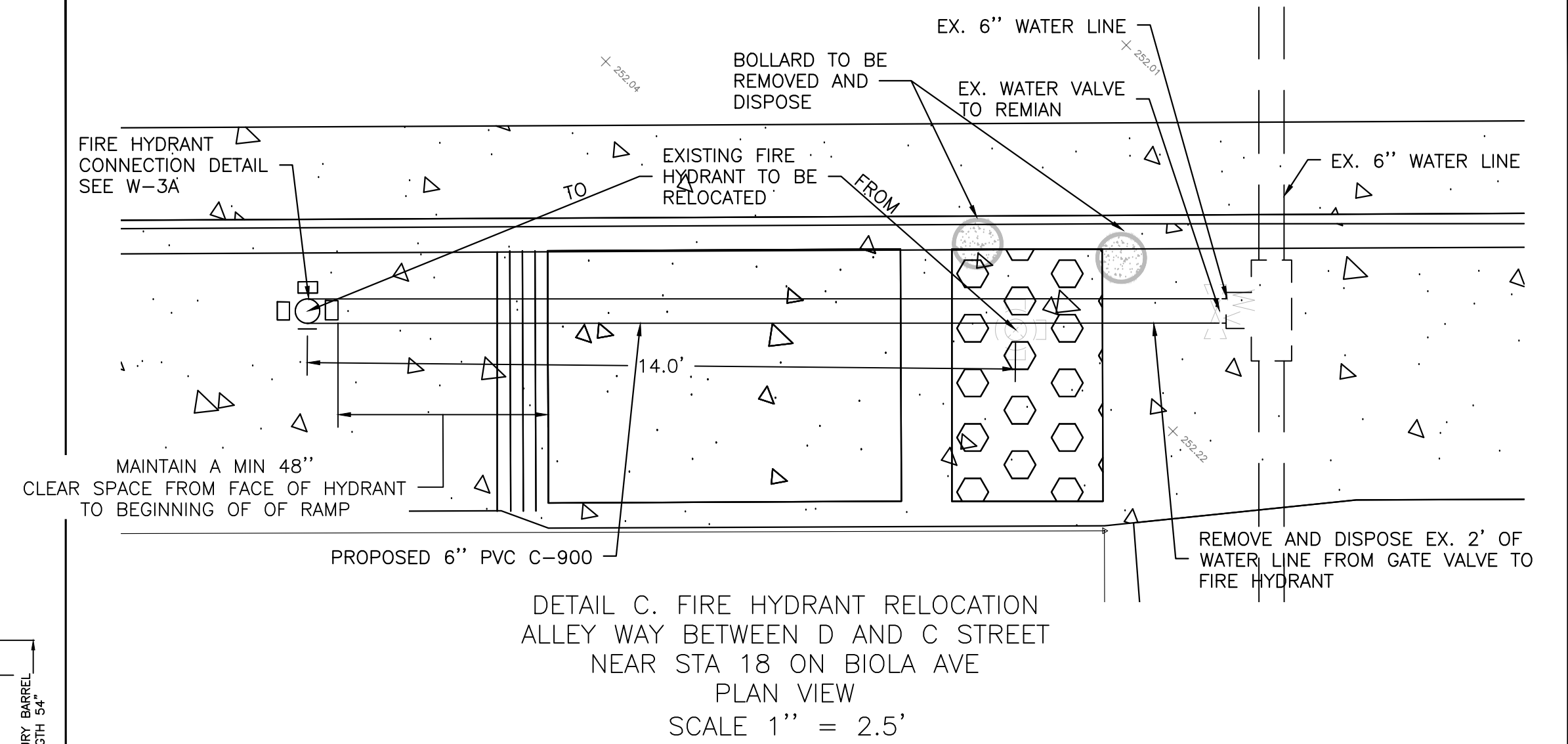
TABLE MUST BE RECALCULATED FOR EACH PROJECT BASED ON ASAE STANDARD S376-1

NOT TO SCALE

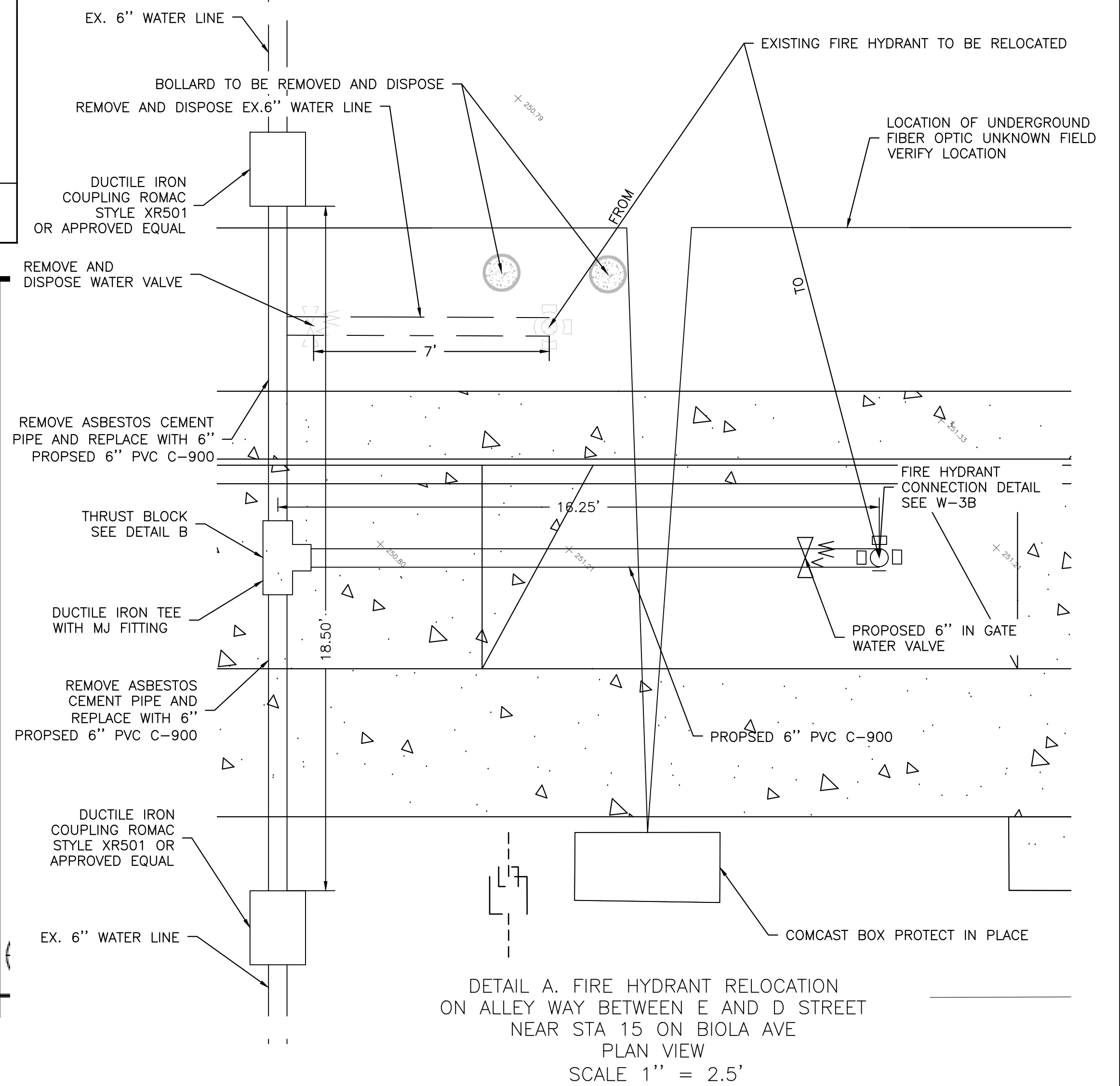
11305

DETAIL B. THRUST BLOCK

NOT TO SCALE



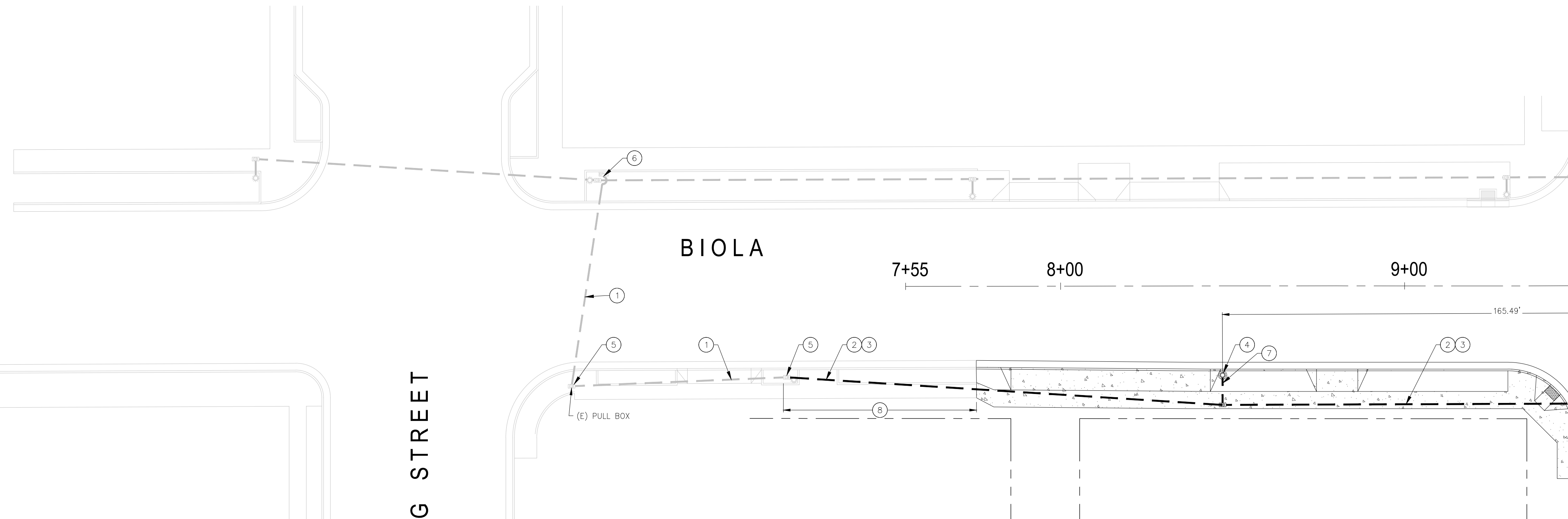
DETAIL C. FIRE HYDRANT RELOCATION ALLEY WAY BETWEEN D AND C STREET NEAR STA 18 ON BIOLA AVE PLAN VIEW SCALE 1" = 2.5'



DETAIL A. FIRE HYDRANT RELOCATION ON ALLEY WAY BETWEEN E AND D STREET NEAR STA 15 ON BIOLA AVE PLAN VIEW SCALE 1" = 2.5'

DESIGNED: DK	DATE: 2-15-24	RESIDENT ENGINEER	DATE:				PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: EC	DATE: 2-15-24						BIOLA COMMUNITY SIDEWALK IMPROVEMENTS		CONSTRUCTION DETAIL FIRE HYDRANT
CHECKED: S. ARTAL	DATE: 2-15-24						ROAD NO. W1250		BRIDGE NO. N/A

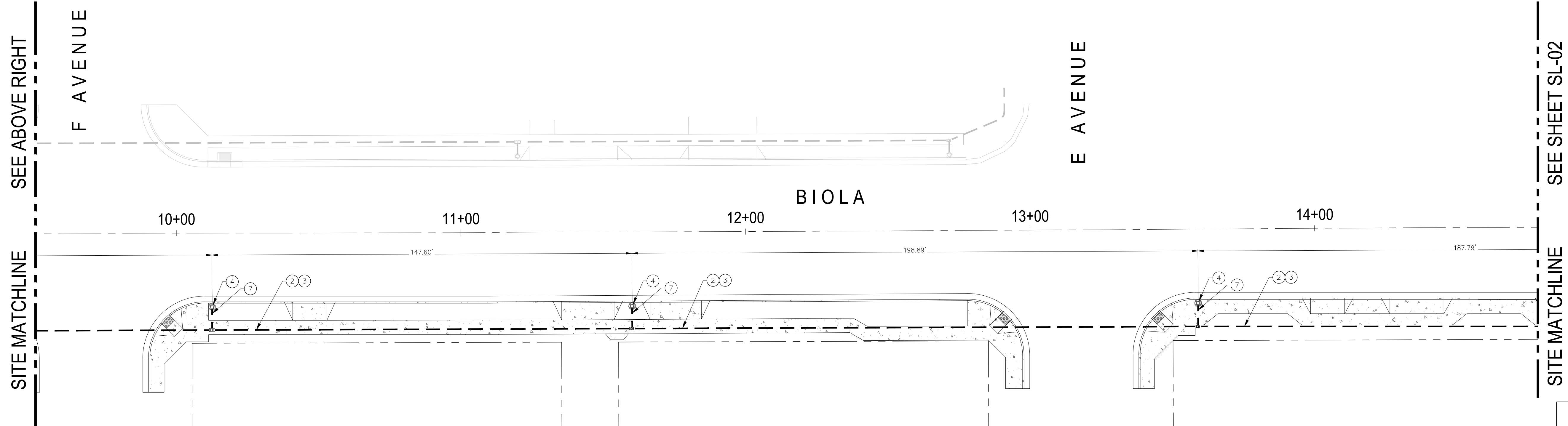
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



N. BIOLA AVENUE

NOTE: STATIONING IS ALONG EXISTING STREET CENTERLINE

- CONSTRUCTION NOTES:**
- 1 FURNISH AND INSTALL 3 #6, & 1 #8 GROUND ON (E) SPARE 1-1/2" C.
 - 2 FURNISH AND INSTALL 1 1/2" C, 3 #6, 1 #8 GROUND, SEE DETAIL 6.
 - 3 FURNISH AND INSTALL 1 1/2" C, FOR FUTURE, SEE DETAIL 6.
 - 4 FURNISH AND INSTALL STREET LIGHT, CONCRETE BASE & PULL BOX, SEE DETAILS 1, 2 & 4.
 - 5 REMOVE CAST IN PLACE LID & REPLACE WHEN DONE.
 - 6 PROVIDE AND INSTALL 4 POLE, 20 A RELAY IN EXISTING SERVICE PEDESTAL. CONNECT RELAY CONTROLS TO EXISTING PHOTOCELL OUTPUT. CONNECT 2 RELAY CONTACTS TO SPARE CIRCUIT BREAKERS. CONNECT NEW STREET LIGHT CIRCUIT TO CONTACTS. SEE DETAIL 3.
 - 7 FURNISH AND INSTALL 1 1/2" C, 2 #6, 1 #8 GROUND.
 - 8 CONTRACTOR SHALL PERFORM DIRECTIONAL DRILLING UNDERNEATH EXISTING SIDEWALK.



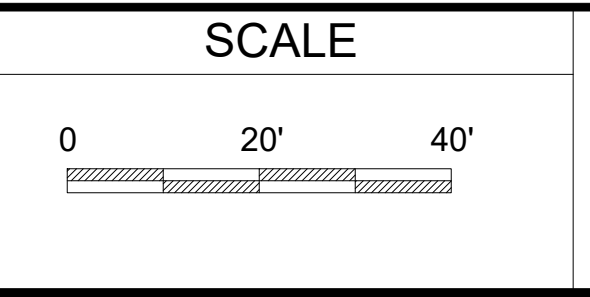
N. BIOLA AVENUE

NOTE: STATIONING IS ALONG EXISTING STREET CENTERLINE



am Consulting Engineers
 5150 N. SIXTH ST SUITE 124, FRESNO, CA
 P.559.473.1371 F.559.513.8449

DESIGNED:	DATE	RECORD DRAWING	
A. MANRIQUE	12/20/23	RESIDENT ENGINEER	DATE
DRAWN: L. ALANIZ	12/21/23		
CHECKED: A. MANRIQUE	12/22/23		



SUPERVISING ENGINEER _____ DATE _____



PROJECT
BIOLA SHOULDER & SIDEWALK IMPROVEMENTS

ROAD NO. W1250 BRIDGE NO. N/A



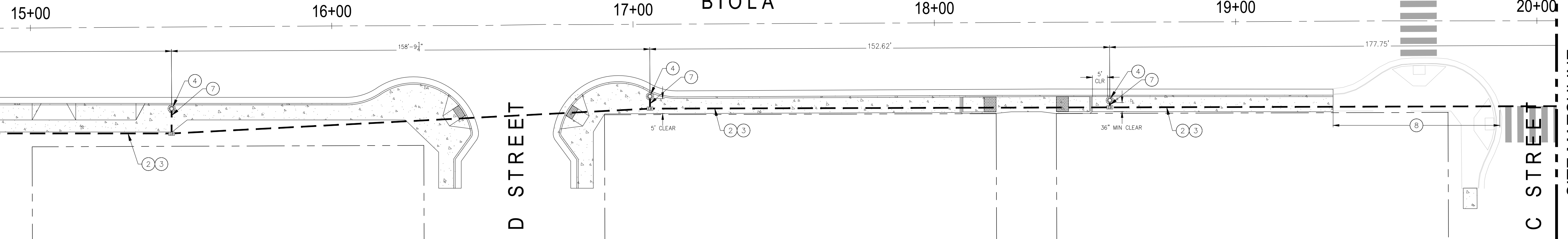
DEPARTMENT OF PUBLIC WORKS AND PLANNING
STREET LIGHTING PLAN (1 OF 2)

DRAWING NO. 11320 SHEET NO. 30 TOTAL 32

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SEE SHEET SL-01

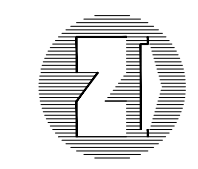
SITE MATCHLINE



N. BIOLA AVENUE

NOTE: STATIONING IS ALONG EXISTING STREET CENTERLINE

- CONSTRUCTION NOTES:**
- 1 FURNISH AND INSTALL 3 #6, & 1 #8 GROUND ON (E) SPARE 1-1/2" C.
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NORTH
SCALE: 1" = 20'

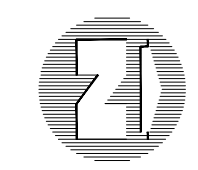
SEE ABOVE RIGHT

SITE MATCHLINE



N. BIOLA AVENUE

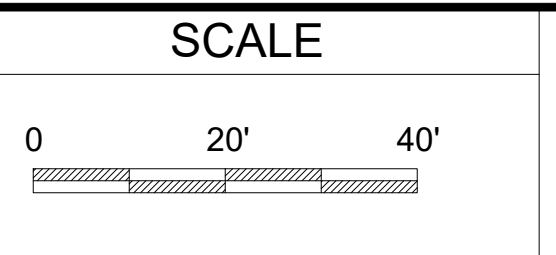
NOTE: STATIONING IS ALONG EXISTING STREET CENTERLINE



NORTH
SCALE: 1" = 20'

am Consulting Engineers
5150 N. SIXTH ST SUITE 124, FRESNO, CA
P.559.473.1371 F.559.513.8449

DESIGNED:	DATE	RECORD DRAWING	
A. MANRIQUE	12/20/23	RESIDENT ENGINEER	DATE
DRAWN: L. ALANIZ	12/21/23		
CHECKED: A. MANRIQUE	12/22/23		



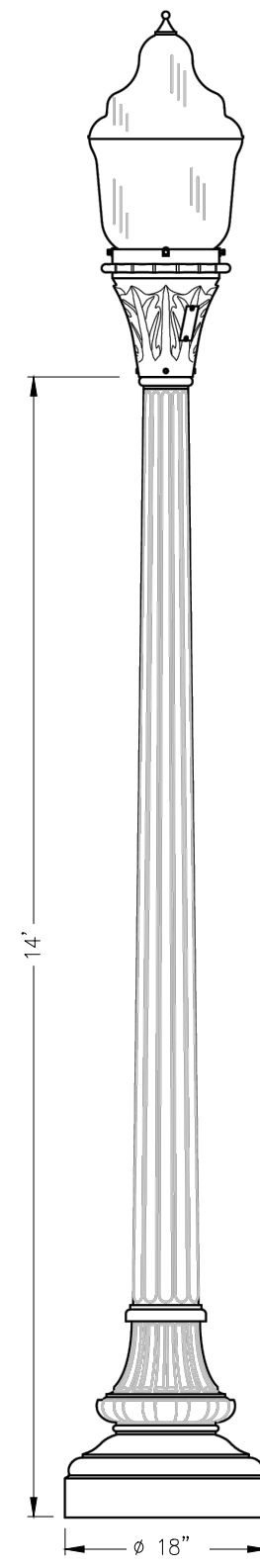
SUPERVISING ENGINEER _____ DATE _____



PROJECT
BIOLA SHOULDER & SIDEWALK IMPROVEMENTS

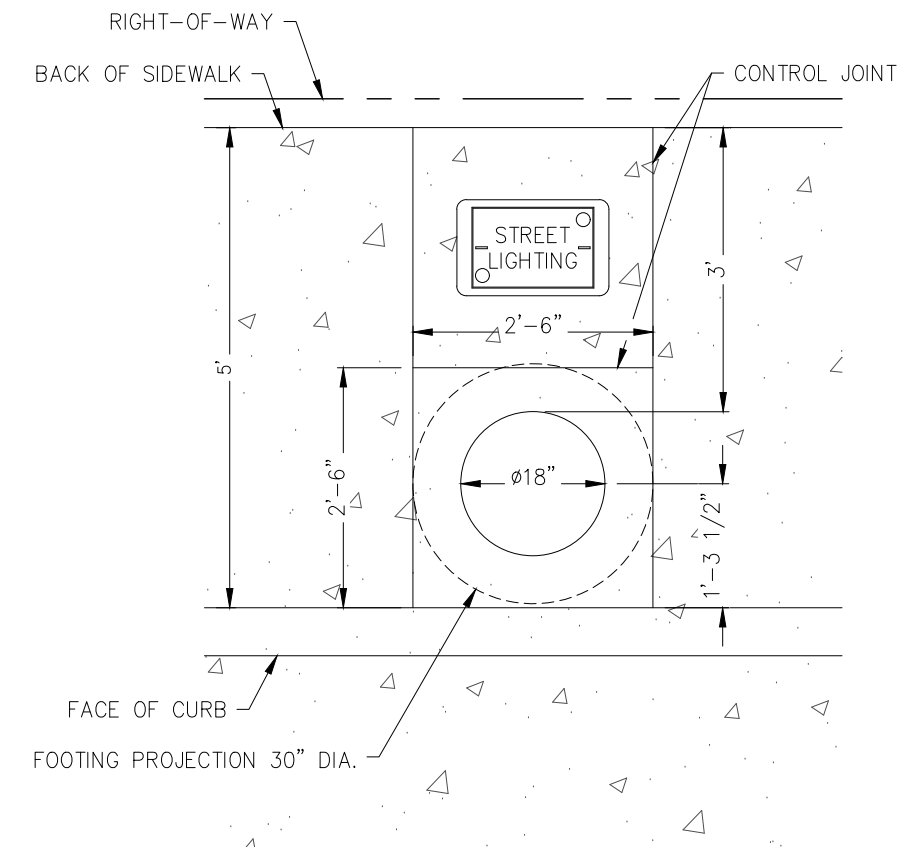


DEPARTMENT OF PUBLIC WORKS AND PLANNING
STREET LIGHTING PLAN (2 OF 2)

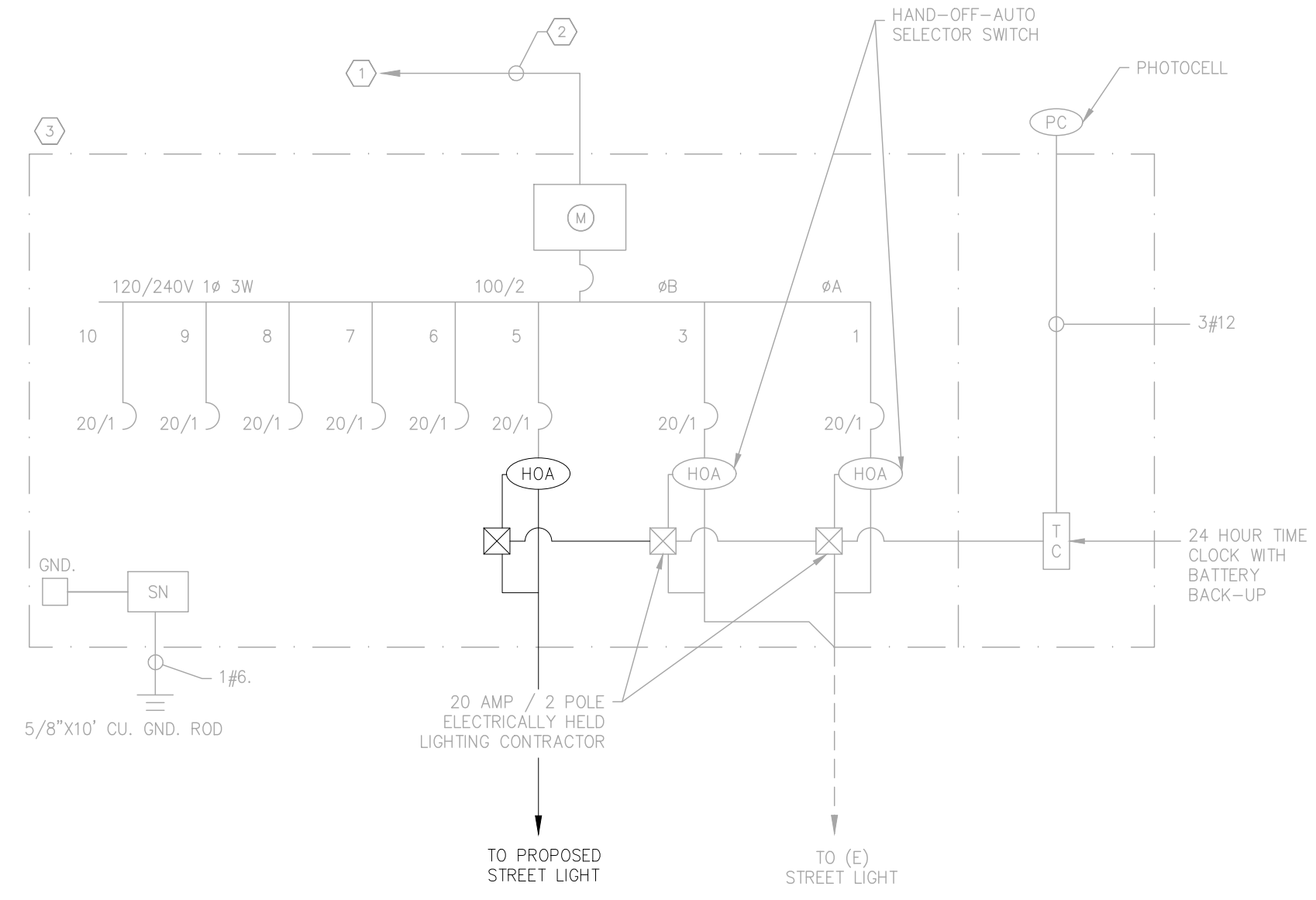


NOTES:
STREET LIGHT FIXTURE & POLE SHALL MATCH EXISTING LIGHTS. EXISTING FIXTURES ARE MANUFACTURED BY HCLOPHANE LIGHTING AS FOLLOWS:
FIXTURE: GVD3 P30 40K MVOLT MS GL3LU BK RB ST TBK PR7 PCLL CHA 14 F4C

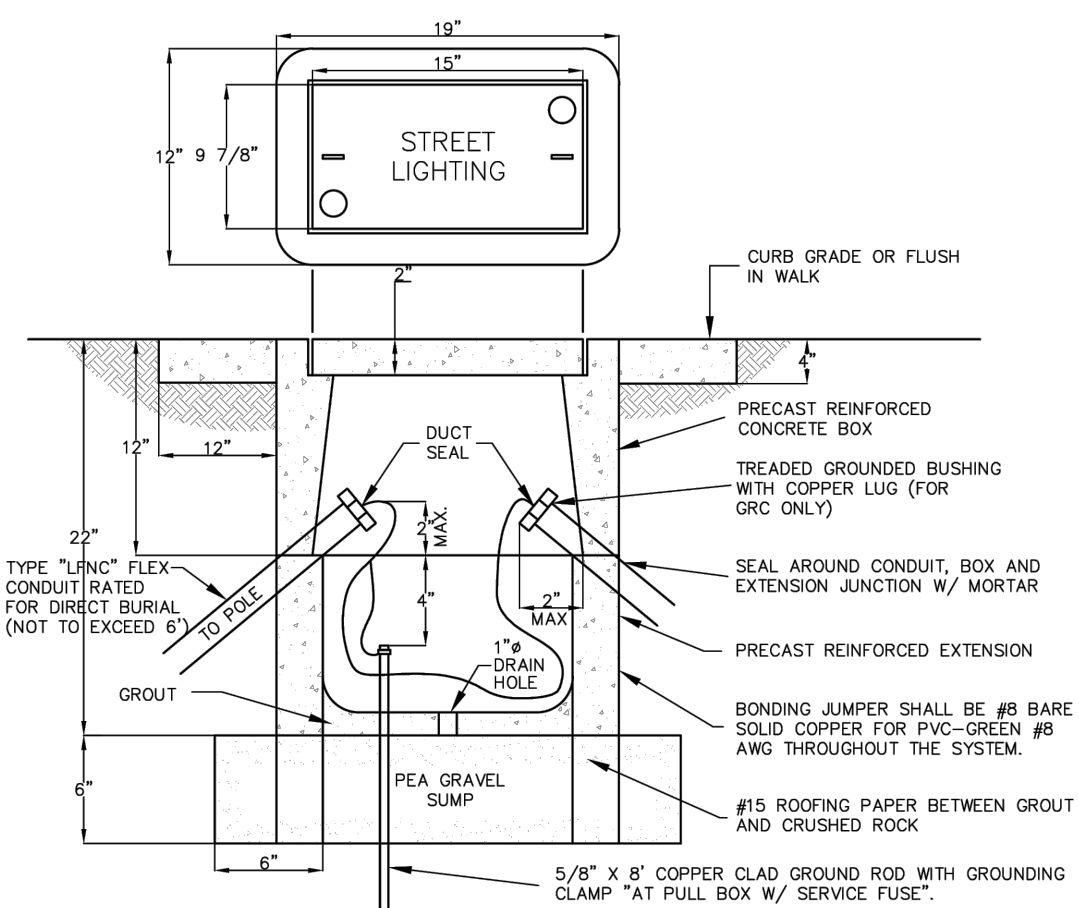
1 DECORATIVE STREETLIGHT
SCALE: N.T.S.



2 LIGHT POLE BASE
SCALE: N.T.S.

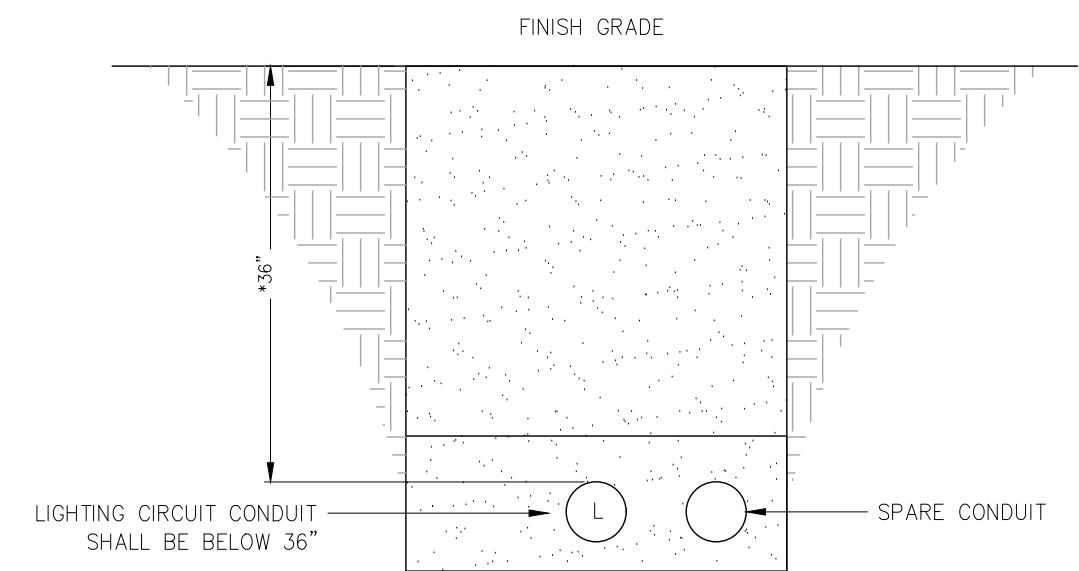


3 PANEL LINE DIAGRAM
SCALE: N.T.S.

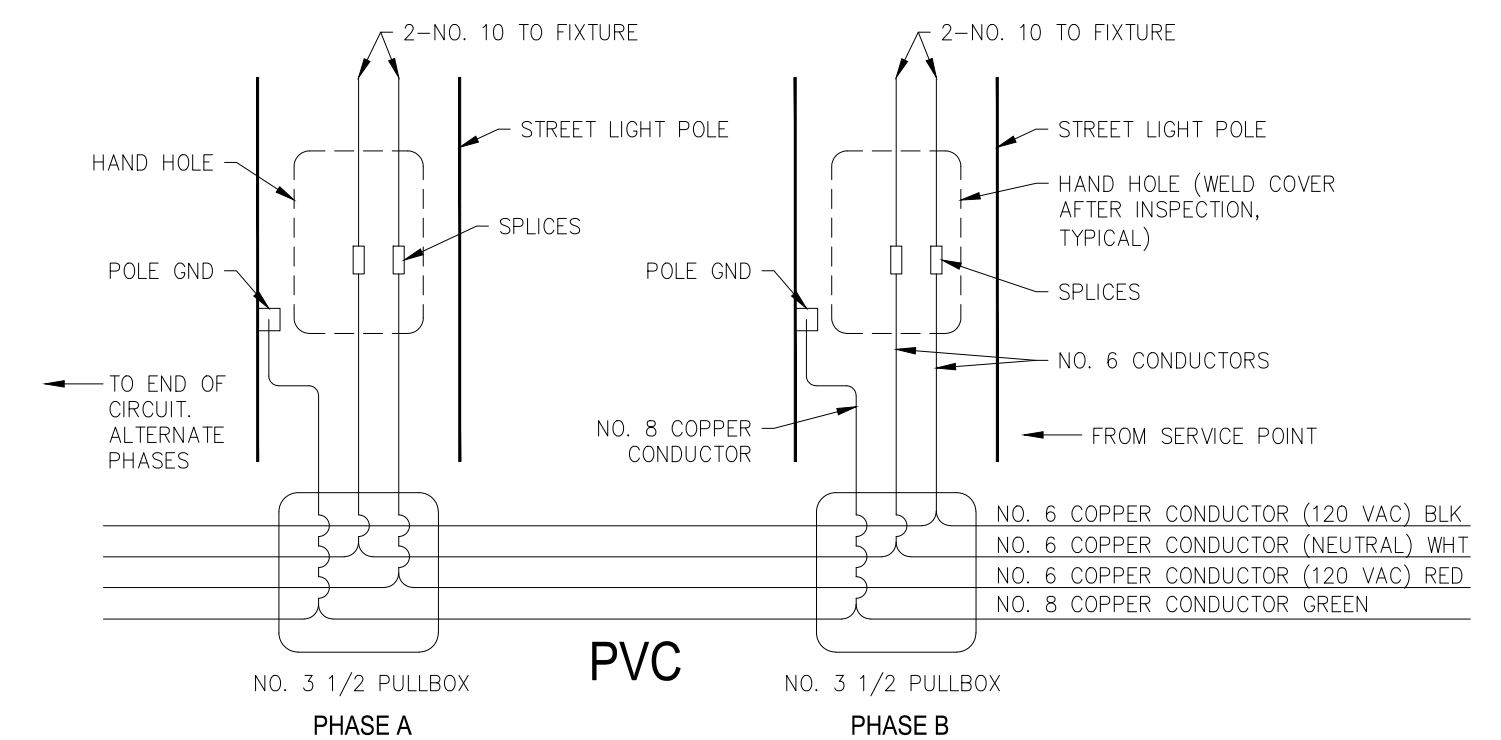


- GENERAL NOTES:
- PULL BOXES SHALL BE #3 1/2 AS PER CAL TRANS STANDARD SPECIFICATION OR CHRISTY N-9 OR APPROVED EQUAL. LIDS SHALL HAVE HOLD DOWN BOLTS.
 - PULL BOXES SHALL BE GROUTED PRIOR TO INSTALLATION OF CONDUCTORS, SLOPED TOWARD THE DRAIN HOLE. PLACE A LAYER OF ROOFING PAPER BETWEEN THE CRUSHING ROCK AND THE GROUT.
 - PULL LIDS BEFORE POURING CONCRETE AROUND PULL BOXES.
 - WRAP PULL BOX WITH ROOFING PAPER BEFORE BACKFILLING.
 - FUSE AT POINT OF SERVICE SHALL BE 60A IF #6 CONDUCTOR AND 40A IF #8 CONDUCTOR AND SHALL HAVE A TRON TYPE FUSE HOLDER (SINGLE POLE).
 - INSTALL A ONE-FOOT RING OF CONCRETE, FOUR INCHES DEEP, AROUND THE WRAPPED PULL BOXES INSTALLED IN DIRT AREAS. SLOPED TO DRAIN AWAY FROM THE PULL BOX.
 - WHEN PULL BOXES ARE LOCATED ADJACENT TO STREET LIGHT, EXTEND CONCRETE RING TO INCLUDE 12" CIRCUMFERENCE AROUND POLE.
 - PULL BOXES TO BE INSTALLED PARALLEL TO STREET AND/OR CURB OR GUTTER.
 - EACH PULL BOX WILL HAVE A LOCKABLE CAST IRON CHRISTY BOX LID.

4 STREETLIGHT PULLBOX
SCALE: N.T.S.



5 TRENCH SECTION
SCALE: N.T.S.



6 STREETLIGHT CONNECTION DIAGRAM
SCALE: N.T.S.

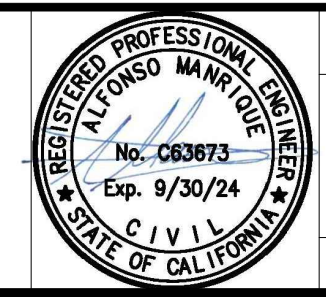
- GENERAL NOTES:
- ALL WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENSION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR SHALL FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ECT. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED. NOTHING IN THESE PLANS OR SPECIFICATIONS MAY BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO ANY CONSTRUCTION CODES.
 - ALL EQUIPMENT SHALL HAVE TESTING LABORATORY LABEL ATTACHED (U.L. C.S.A. ETC.) AS PER N.E.C. 110. PROOF OF TESTING LABELS REQUIRED WITH ALL SUBMITTALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THESE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PURCHASING, IF ANY OF THE SPECIFIED MATERIAL FAILED THESE REQUIREMENTS. WHERE A FIELD CERTIFIED PRODUCT MAY BE REQUIRED FOR FIELD ASSEMBLED COMPONENT, PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENCY ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION. INCLUDED ALL TESTING FEES IN BID.
 - THE ENGINEERING SERVICES ARE LIMITED TO PREPARATION OF PLANS AND SPECIFICATIONS. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES ONLY AND NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENSION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY SCOPE OF WORK WITH GENERAL CONTRACTOR/OWNER SINCE THE ENGINEER IS NOT SUPERVISING THE JOB. THE ENGINEER WILL PROVIDE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS, BUT SUPERVISION IS UNDER THE RESPONSIBILITY OF THE OWNER OR HIS APPOINTEE.
 - WORKING CLEARANCE SHALL BE MAINTAINED AS PER N.E.C. FOR ALL PANEL(S), SERVICE EQUIPMENT, DISCONNECT SWITCH, ECT. LOCAL UTILITY COMPANY WORKING CLEARANCE REQUIREMENT SHALL ALSO BE OBSERVED. POWER EQUIPMENT MANUFACTURER'S PRODUCT MAY VARY IN DIMENSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORKING CLEARANCE REQUIREMENT WHEN LAYING OUT THE ELECTRICAL EQUIPMENT.
 - THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT AGAINST SHOP DRAWINGS BEFORE STUBBING UP CONDUITS OR PENETRATING EXTERIOR WALL(S) OF BUILDING(S).
 - IN CASE OF INTERFERENCE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE PROCEEDING.
 - ALL OUTDOOR DEVICES SHALL BE WEATHER PROOF.
 - CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO COMPLETE INSTALLATION, CHECKOUT AND INITIAL OPERATION.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GENERAL ARRANGEMENT OF EQUIPMENT SHOWN AND SHALL SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO PURCHASE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE AND SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL CHECK ALL THE CONDITIONS WHICH MAY AFFECT HIS WORK. THE SITE VISIT SHALL BE MADE PRIOR TO SUBMITTING THE BID. BIDDERS SHALL BE PREARRANGED A SITE VISIT WITH THE OWNER/ENGINEER.
 - CONDUCTORS SHALL BE COPPER, TYPE THWN OR SIZE NO. 6 AWG. AND SMALLER.
 - CONDUIT SHALL BE PVC SCHEDULE 80 EXCEPT PVC COATED 40 GALVANIZED RIGID STEEL CONDUIT FOR STREET CROSSINGS. PROVIDE PULL ROPE IN ALL CONDUIT RUNS.
 - ALL WIRING AND RACEWAY SHOWN ARE DIAGRAMMATIC. EXACT ROUTING TO BE GOVERNED BY STRUCTURE AND SITE CONDITIONS.

- TRENCHING AND EXCAVATION NOTES:
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CALL UNDERGROUND SERVICE ALERT "USA" BEFORE THE COMMENCEMENT OF ANY EXCAVATION. EACH CONTRACTOR SHALL HAVE THEIR OWN USA TICKET NUMBER FOR EACH PROJECT LOCATION AND SHALL NOT RIDE ON ANY OTHER CONTRACTORS TICKET. CONTRACTOR SHALL NOTIFY THE OWNER 72 HOURS PRIOR TO EXCAVATION.
 - THIS CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF EQUIPMENT AND MATERIALS. ALL PATCHING SHALL ACCURATELY MATCH THE ADJOINING WORK.
 - THIS CONTRACTOR SHALL DO EXCAVATING REQUIRED FOR THE INSTALLATION OF THE WORK. UNDERGROUND LINES OUTSIDE THE BUILDINGS SHALL BE INSTALLED WITH A MINIMUM OF 36" OF COVER, EXCEPT DEPTH OF UTILITY SERVICES SHALL COMPLY WITH RESPECTIVE UTILITY COMPANY REQUIREMENTS.
 - BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTEN CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
 - STRUCTURES, BUILDING SLABS, WALKWAYS, AND STEPS: COMPACT TOP 6" OF SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 92% MAXIMUM RELATIVE COMPACTION.
 - COMPACT TOP 6" OF SUBGRADE MATERIAL AT 85% RELATIVE COMPACTION IN PLANTERS.
 - COMPACT TOP 24" OF SUBGRADE IMMEDIATELY BENEATH THE BASE COARSE AT 95% MINIMUM RELATIVE COMPACTION IN STREET AREAS.
 - ANY SURPLUS EXCAVATION RESULTING FROM THESE EXCAVATIONS SHALL BE HAULED OFF.
 - AFTER ALL TRENCHES HAVE BEEN TAMPED IN, RAKE OUT ALL HIGH AND LOW AREAS ALONG THE TRENCH LINE. ALL CLODS AND SOLID ROCKS EXPOSED ON THE SURFACE AS A RESULT OF THE EXCAVATION SHALL BE BROKEN DOWN AND OR CLEANED UP. ALL TRENCH LINES SHALL BE RAKED LEVEL WITH EXISTING GRADE.
 - ELECTRICAL, NETWORK, OR DATA CONDUIT SHALL NOT BE RUN IN EXCAVATIONS PROVIDED FOR PLUMBING OR HEATING PIPES, UNLESS SEPARATED BY A MINIMUM OF 12 INCHES.
 - PATCH ALL TRENCHED AREAS TO MATCH EXISTING.
 - HAND EXCAVATE IN AREAS WHERE TRENCHING IS DIFFICULT DUE TO STRUCTURAL OBSTRUCTIONS OR EXISTING UNDERGROUND CONDUIT.
 - THE CONTRACTOR SHALL WALK THE SITE WITH THE DISTRICT TO IDENTIFY ALL EXISTING CONDUITS AND PIPES.
 - UNDERGROUND ELECTRICAL CONDUIT SHALL HAVE MINIMUM 36" COVER. SAND FILL 4" ABOVE AND BELOW CONDUIT IF NATURE SOIL IS NOT ACCEPTABLE FOR BACKFILL. COMPACTION AND TEST REQUIRED AS PER GENERAL CONDITION SPECIFICATIONS OF EARTH WORK SECTION OR MINIMUM OF 95% COMPACTION REQUIRED.

7 GENERAL NOTES
SCALE: N.T.S.

am
Consulting Engineers
5150 N. SIXTH ST SUITE 124, FRESNO, CA
P.559.473.1371 F.559.513.8449

DESIGNED: A. MANRIQUE	DATE: 12/20/23	RECORD DRAWING	RESIDENT ENGINEER	DATE:	SCALE:	PROJECT	BIOLA SHOULDER & SIDEWALK IMPROVEMENTS	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: L. ALANIZ	DATE: 12/21/23					ROAD NO. W1250	BRIDGE NO. N/A	ELECTRICAL DETAILS
CHECKED: A. MANRIQUE	DATE: 12/22/23							DRAWING NO. 11320 SHEET NO. 32 TOTAL 32



FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.