

Nov 12, 2024 - 7:28am J:\Lee Bros - N-20102 Pioneer Rd Widening - Phase 2\AAD_2018\Sheet\007041A\PR OR E-1.dwg				CALCULATED- DESIGNED BY	REVISD BY		
				CHECKED BY	DATE REVISED		



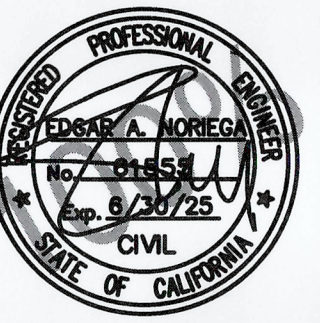
STATE OF CALIFORNIA

CITY OF LOS BANOS
DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE RECONSTRUCTION OF
ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION IMPROVEMENTS
LOS BANOS, CALIFORNIA
PROJECT No. FN-20102

TO BE SUPPLEMENTED BY:
THE CITY OF LOS BANOS IMPROVEMENT STANDARDS AND SPECIFICATIONS
MERCED COUNTY IMPROVEMENT STANDARDS AND SPECIFICATIONS
THE 2023 CALTRANS STANDARD PLANS AND SPECIFICATIONS

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CITY OF LOS BANOS

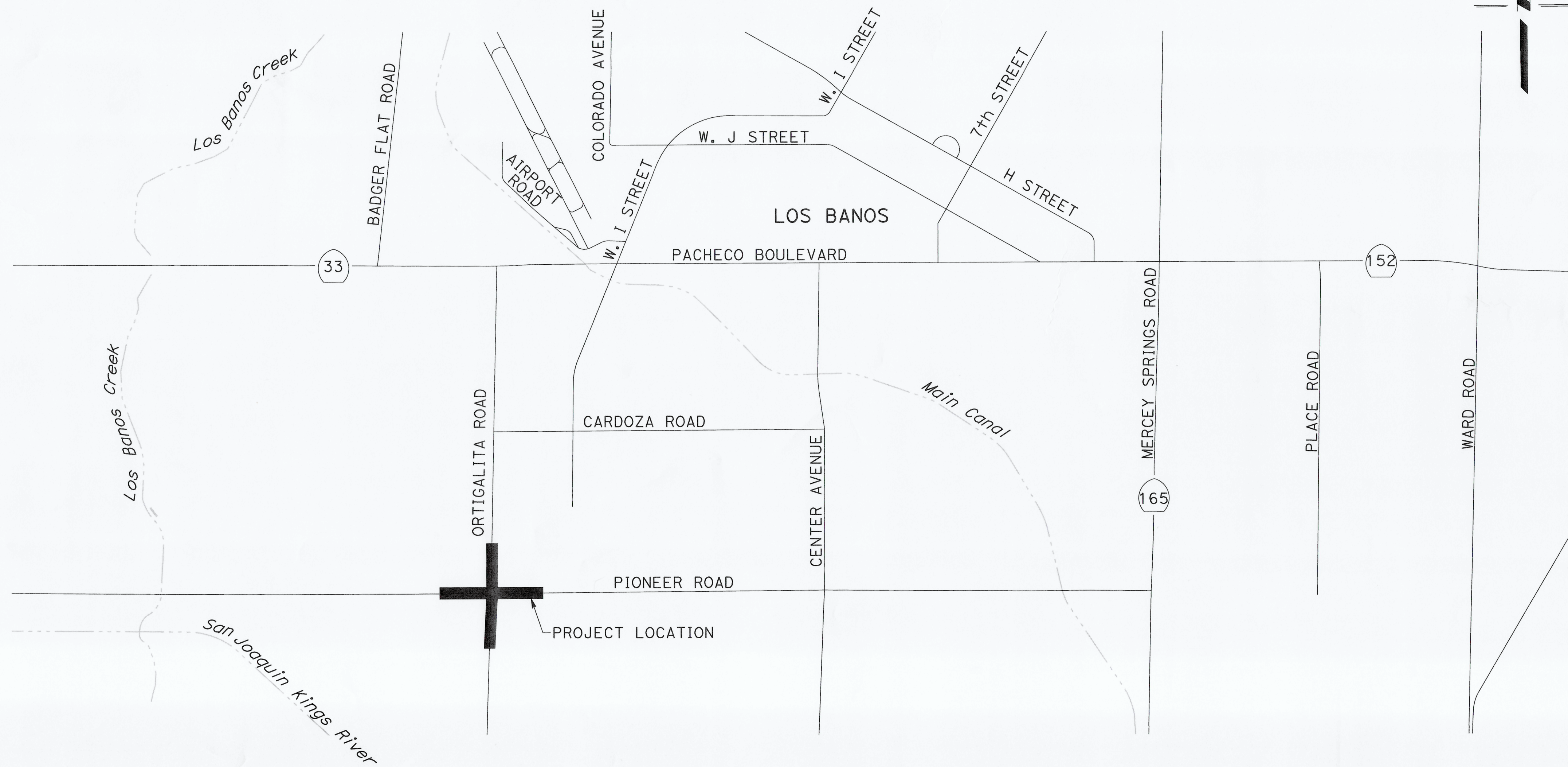
DEPARTMENT OF PUBLIC WORKS
411 MADISON AVENUE
LOS BANOS, CALIFORNIA 93635
(209) 827-7056



IMPROVEMENT PLANS FOR: **ORTIGALITA ROAD AND PIONEER ROAD INTERSECTION PROJECT** LOS BANOS, CALIFORNIA



SHEET NUMBER
1
OF 50 SHEETS



APPROVED BY CITY OF LOS BANOS:

 12 NOV 2024

CHARLES BERGSON, P.E. DATE
PUBLIC WORKS DIRECTOR

APPROVED BY MERCED COUNTY:

Nathan Bray 11/12/24

NATHAN BRAY, P.E. DATE

PUBLIC WORKS DIRECTOR

TITLE
T-1

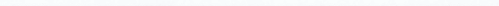


CALL BEFORE YOU DIG

100% SUBMITTAL

PROJECT NUMBER:	FN-20102	PROJECT EA:	10-1M320_	DATE:	11/12/2024
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RELATIVE BORDER SCALE
IS IN INCHES

A horizontal scale bar with markings at 0, 1, 2, and 3 inches. The bar is divided into four equal segments by vertical tick marks. The numbers 0, 1, 2, and 3 are placed above the tick marks. The bar is labeled "RELATIVE BORDER SCALE" and "IS IN INCHES" to its left.

OF 50 SHEETS

- NOTES:**
- FOR IRRIGATION, SWALE, AND DRAINAGE INFORMATION AND LIMITS, SEE DRAINAGE PLAN SHEETS.
 - FOR HMA TRAIL, MEDIAN CURB, AND FENCE INFORMATION AND LIMITS, SEE PLAN AND PROFILE SHEETS. FENCE SHALL BE INSTALLED SUCH THAT THE ENTIRE FENCE FOOTING IS LOCATED OUTSIDE OF THE PUBLIC RIGHT OF WAY.
 - TAPERED EDGE PER CALTRANS Std P76.
 - ALL SWALE AND CONFORM GRADING SHALL BE SLOPED AT 4:1 OR FLATTER, UNLESS CALLED OUT DIFFERENTLY ON THE SECTIONS.
 - ALL HINGE SLOPES SHALL BE SLOPED AT 2%.
 - WHERE REQUIRED FOR STAGE CONSTRUCTION PURPOSES, THE FULL DEPTH HMA SECTION [5] CAN BE USED IN PLACE OF THE CONVENTIONAL SECTION [1]. THIS FULL DEPTH HMA SECTION SHALL ONLY BE UTILIZED WHERE NECESSARY TO MEET STAGING REQUIREMENTS. IN ALL OTHER AREAS, THE CONVENTIONAL SECTION [1] SHALL BE USED. SEE STAGE CONSTRUCTION SHEETS FOR MORE INFORMATION.
 - HYRDOSEED SHALL BE APPLIED TO ALL DISTURBED SOIL AREAS.

PROPOSED SECTIONS:

- [1]

0.50' HMA (TYPE A)
1.55' AB (CLASS 2)
- [2]

0.17' HMA (TYPE A)
0.33' AB (CLASS 2)
- [3]

0.17' DG
- [4]

0.33' MINOR Conc (TEXTURED PAVING)
0.33' AB (CLASS 2)
- [5]

1.20' HMA (TYPE A) (SEE NOTE 6)

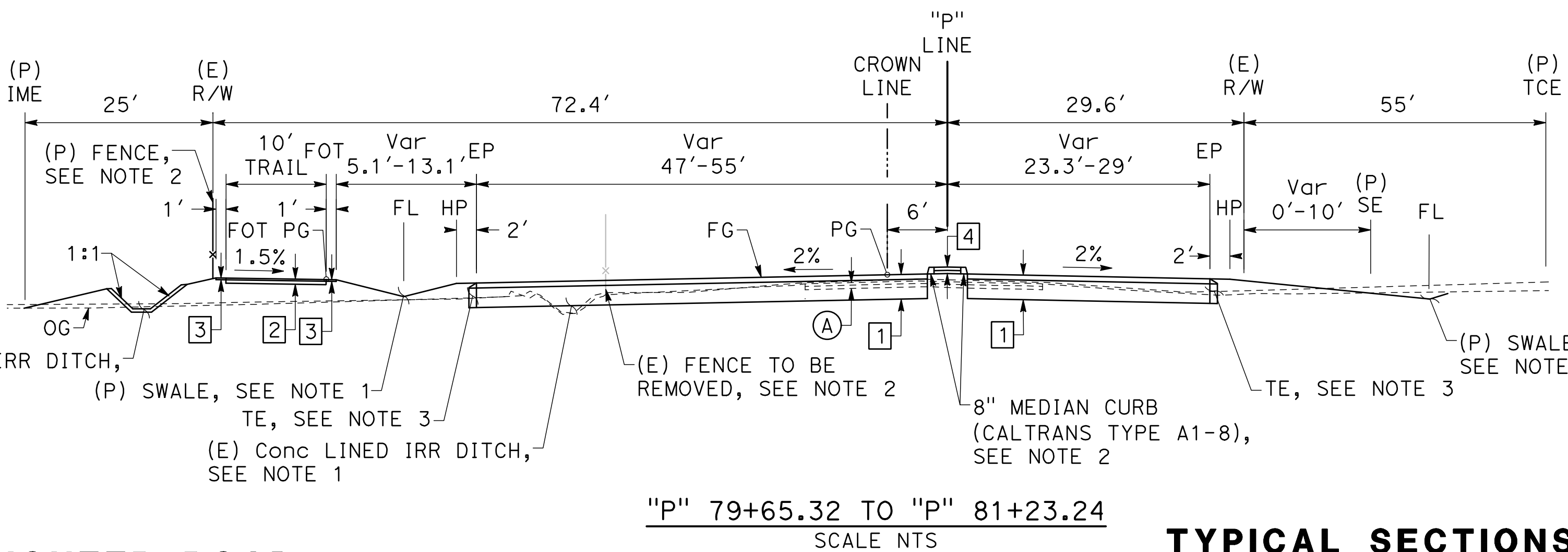
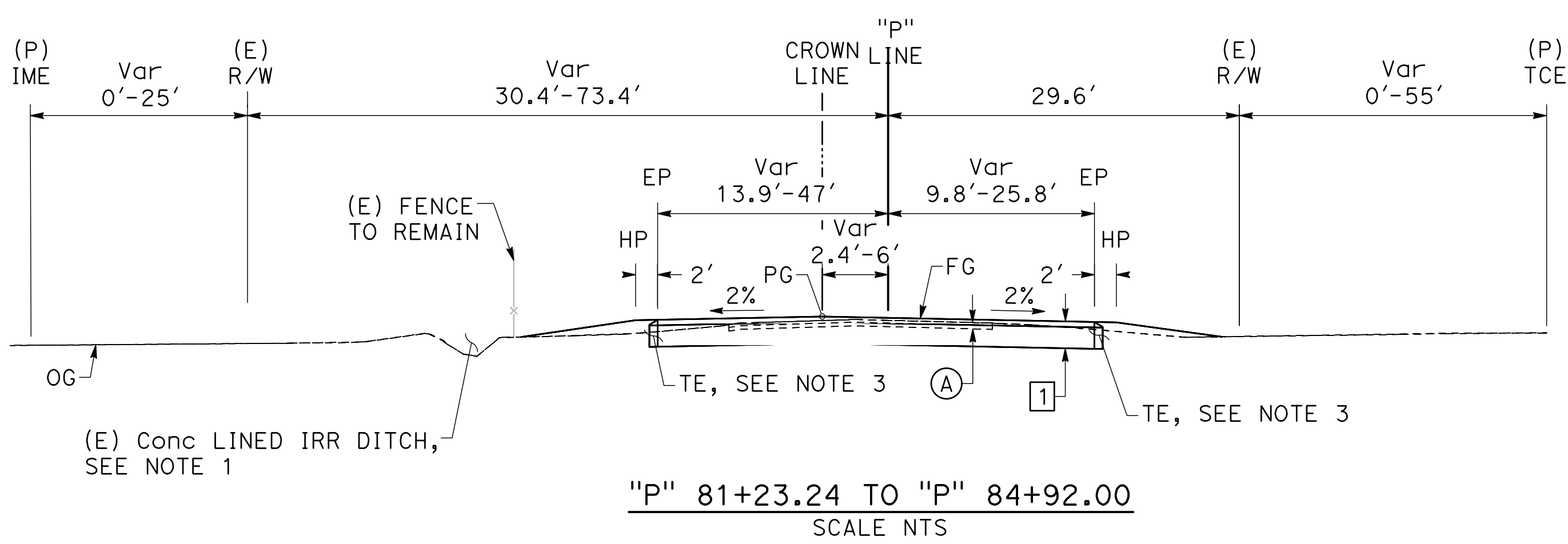
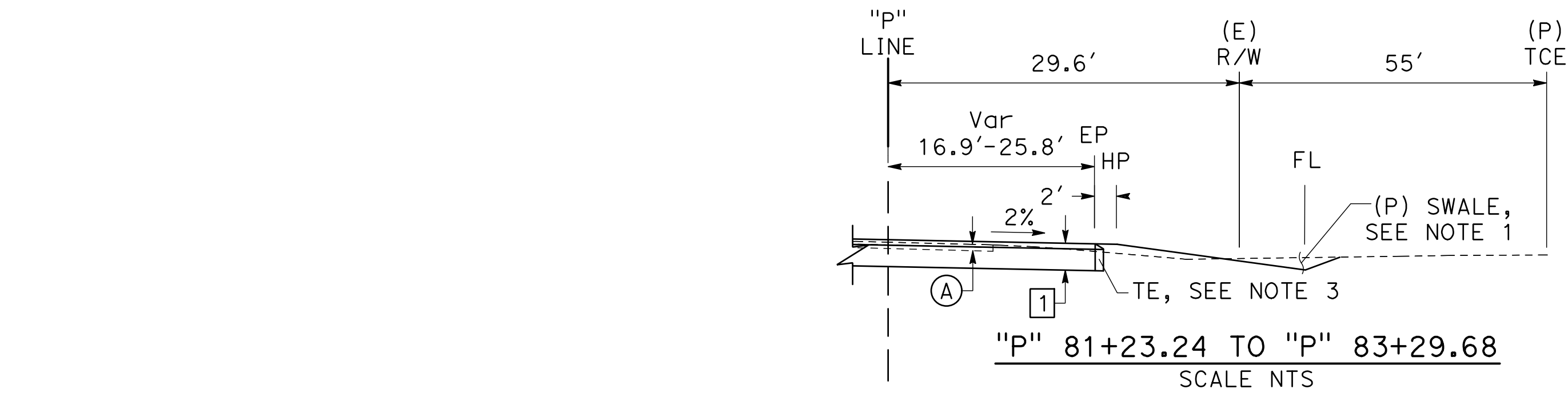
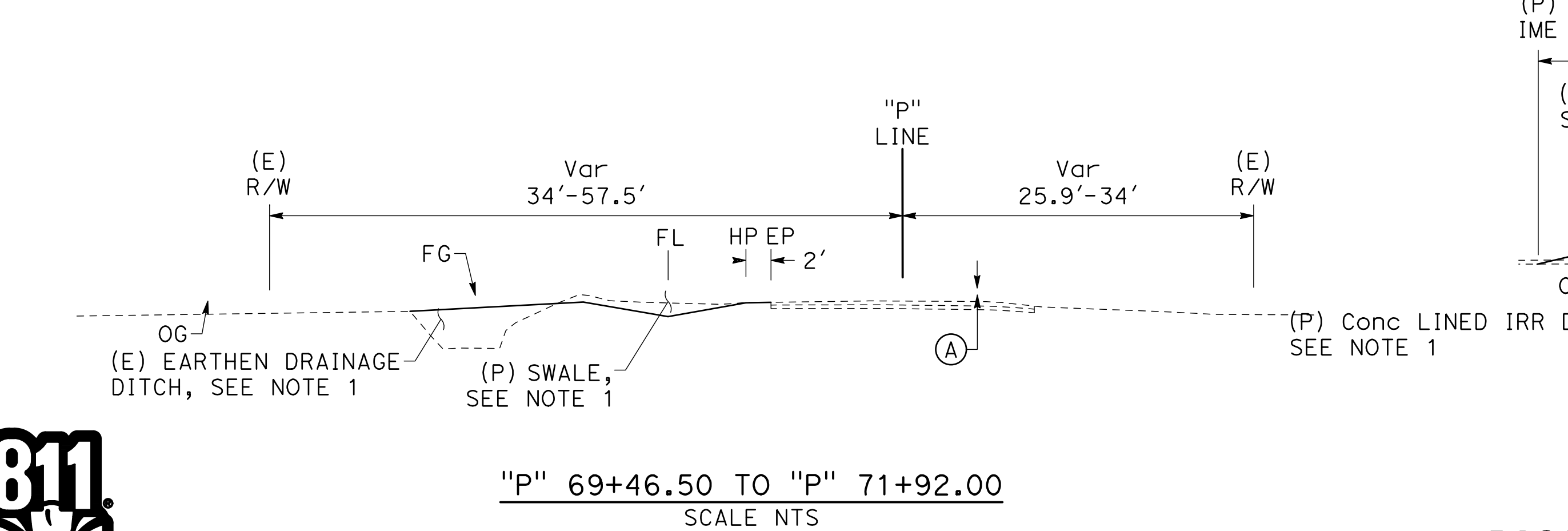
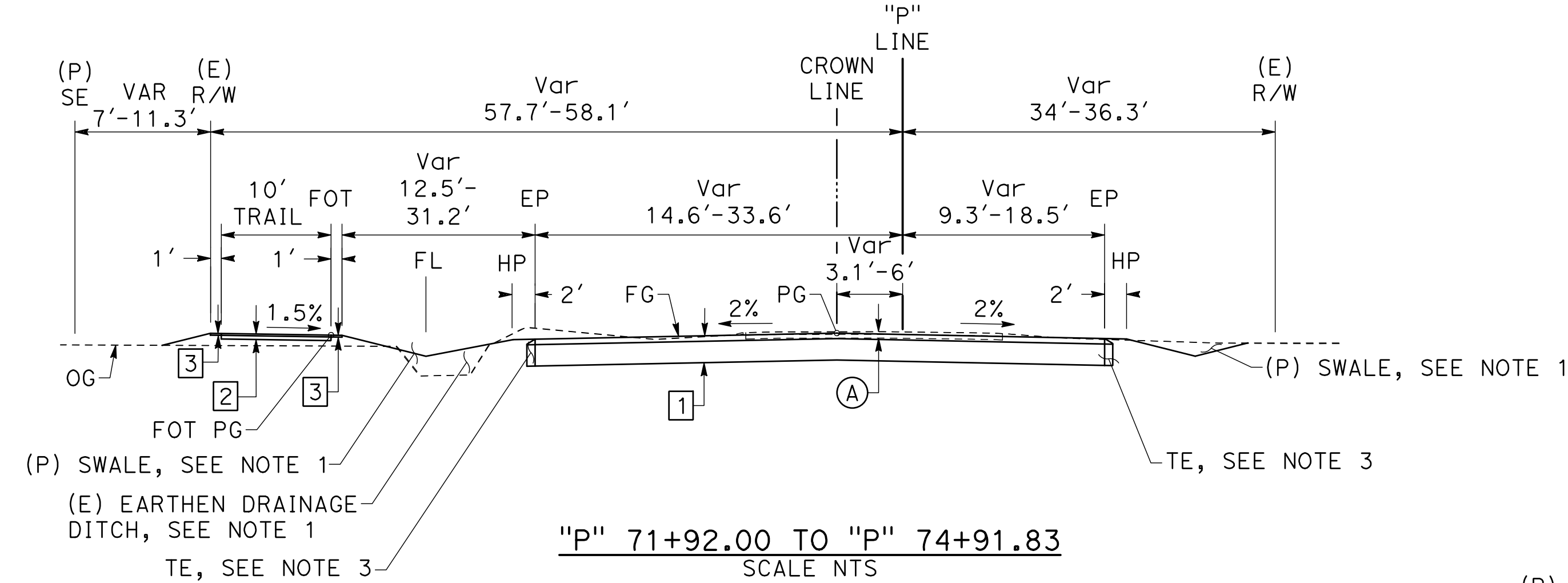
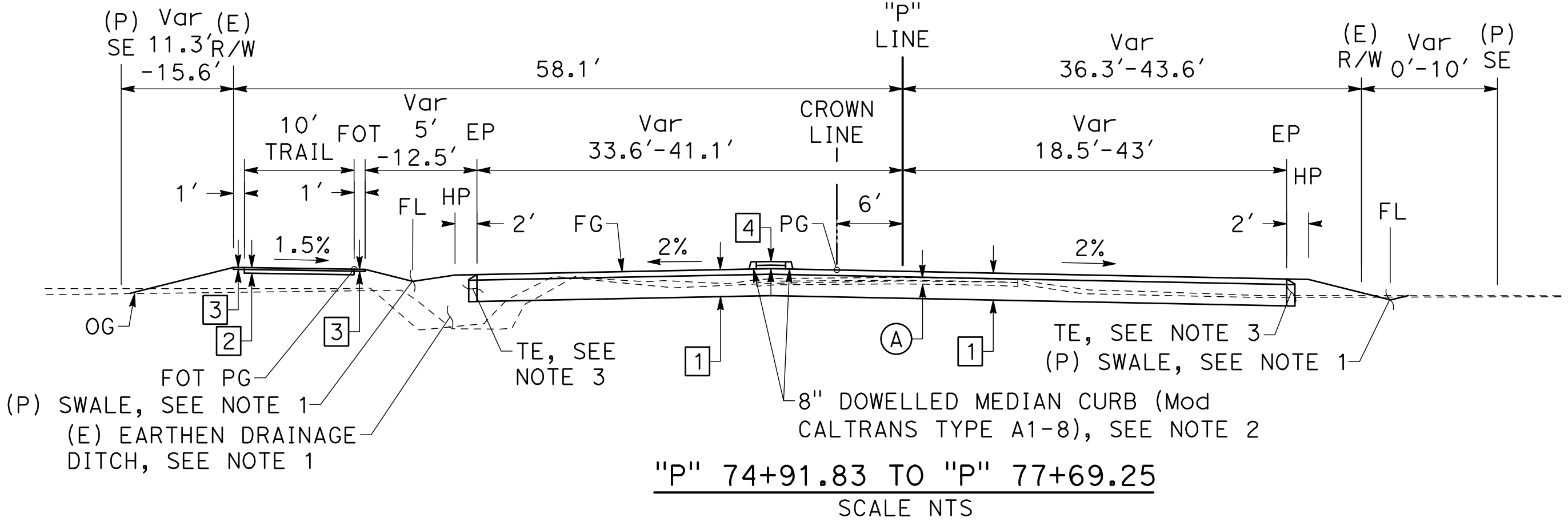
EXISTING SECTIONS:

- (A)

Exist+ 0.25' AC
Exist+ 0.33' AB

DESIGN DESIGNATIONS

STREET NAME	STATION RANGE	TRAFFIC INDEX	"R" VALUE	CONVENTIONAL SECTION		FULL DEPTH HMA SECTION
				HMA	AB	HMA
PIONEER ROAD - "P" LINE	71+92.00 TO 84+92.00	10	20	0.50'	1.55'	1.20' SEE NOTE 6
ORTIGALITA ROAD - "O" LINE	13+85.00 TO 28+55.00	10	20	0.50'	1.55'	-



PIONEER ROAD

**TYPICAL SECTIONS
X-1**

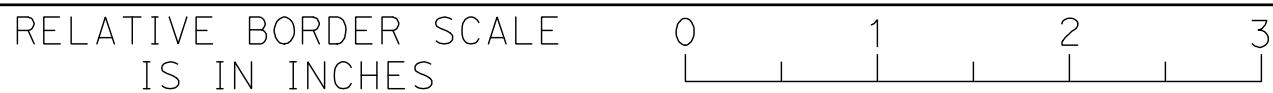
100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA: 10-1M320_

DATE: 11/12/2024

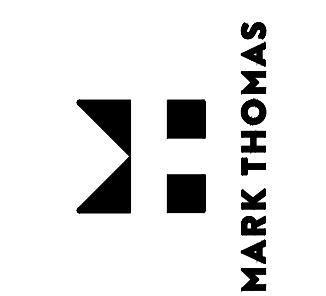
RELATIVE BORDER SCALE
IS IN INCHES



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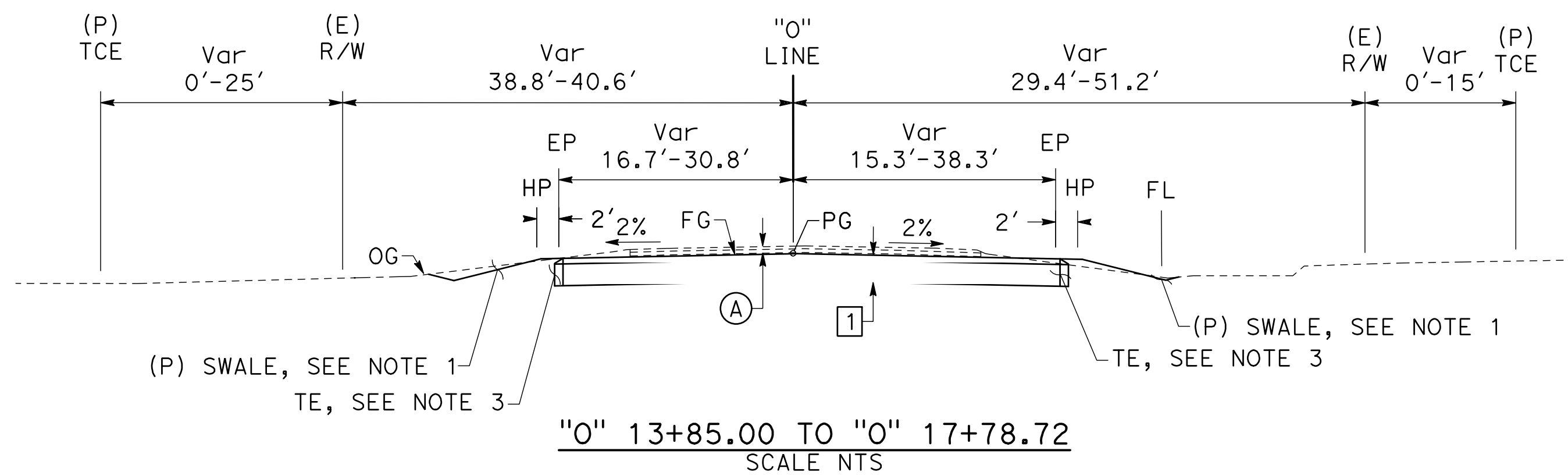
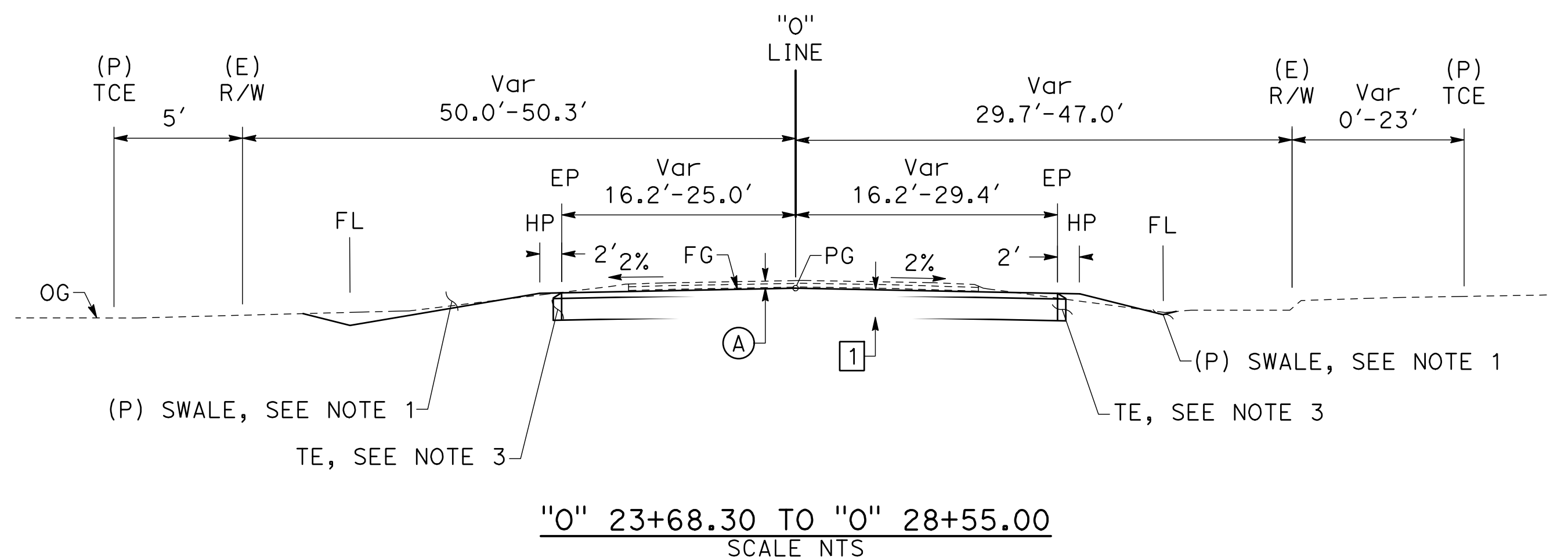
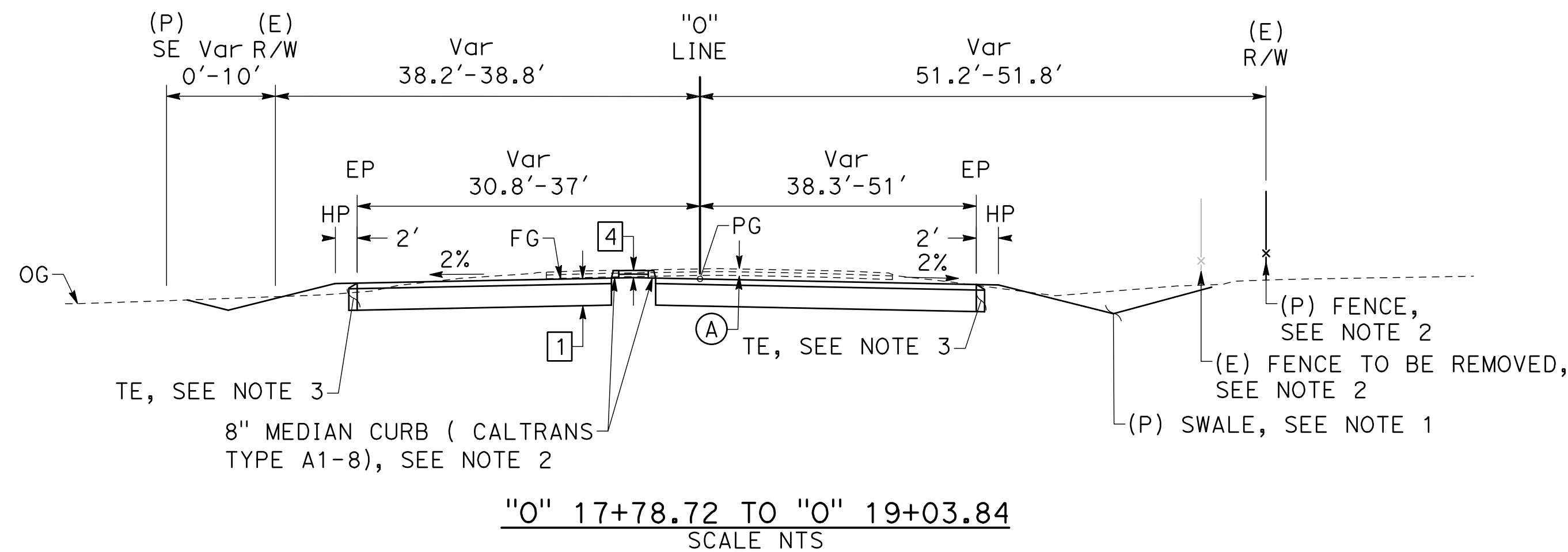
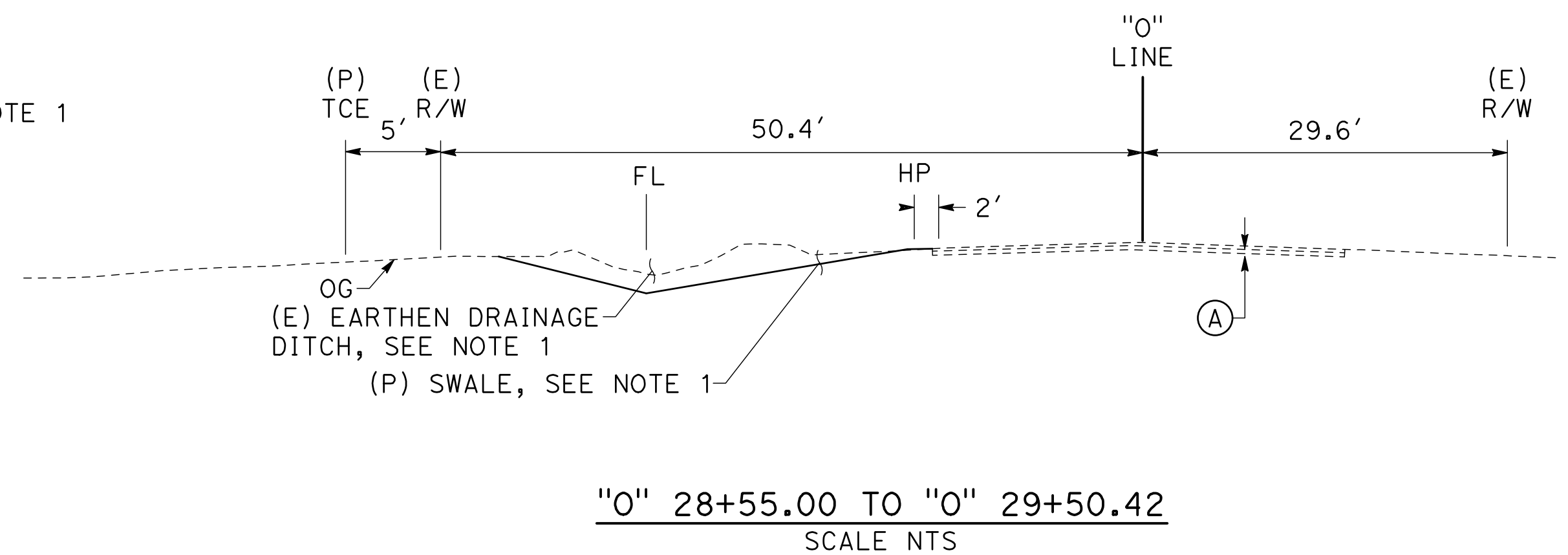
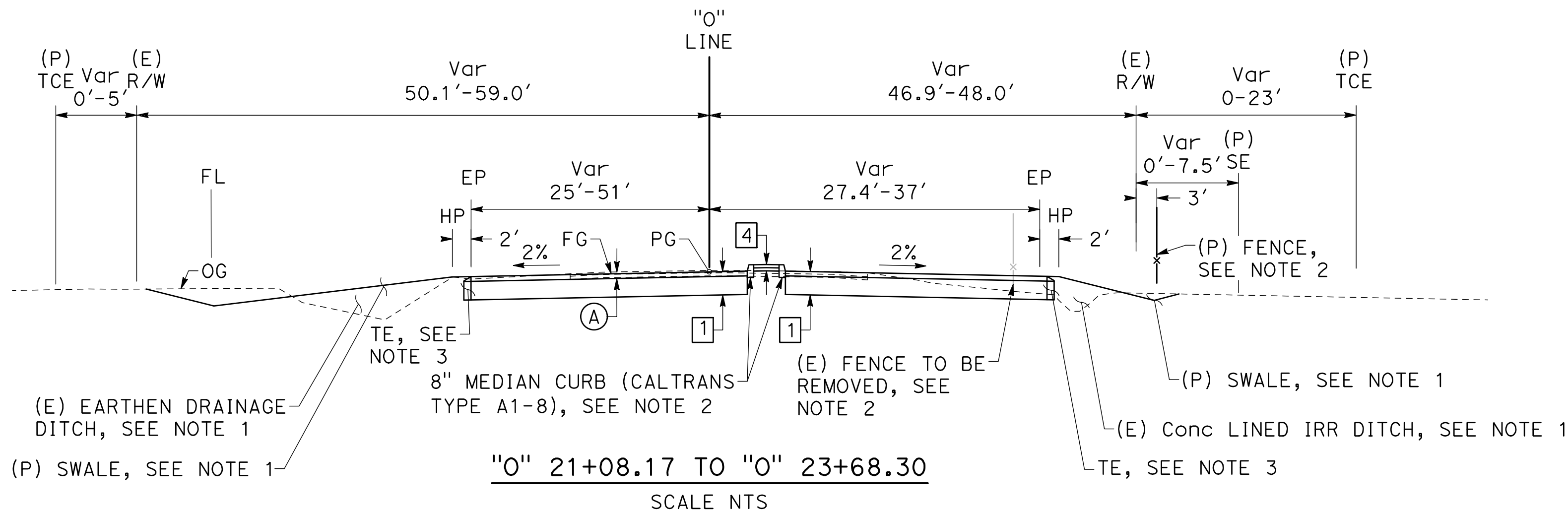


IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER
3
OF 50 SHEETS

Nov 12, 2024 - 2:11pm J:\Los Banos - FH-2002 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR_X-1-2.dwg				
	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



ORTIGALITA ROAD

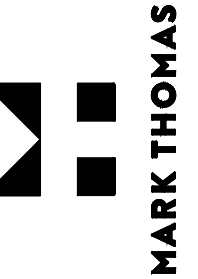
TYPICAL SECTIONS



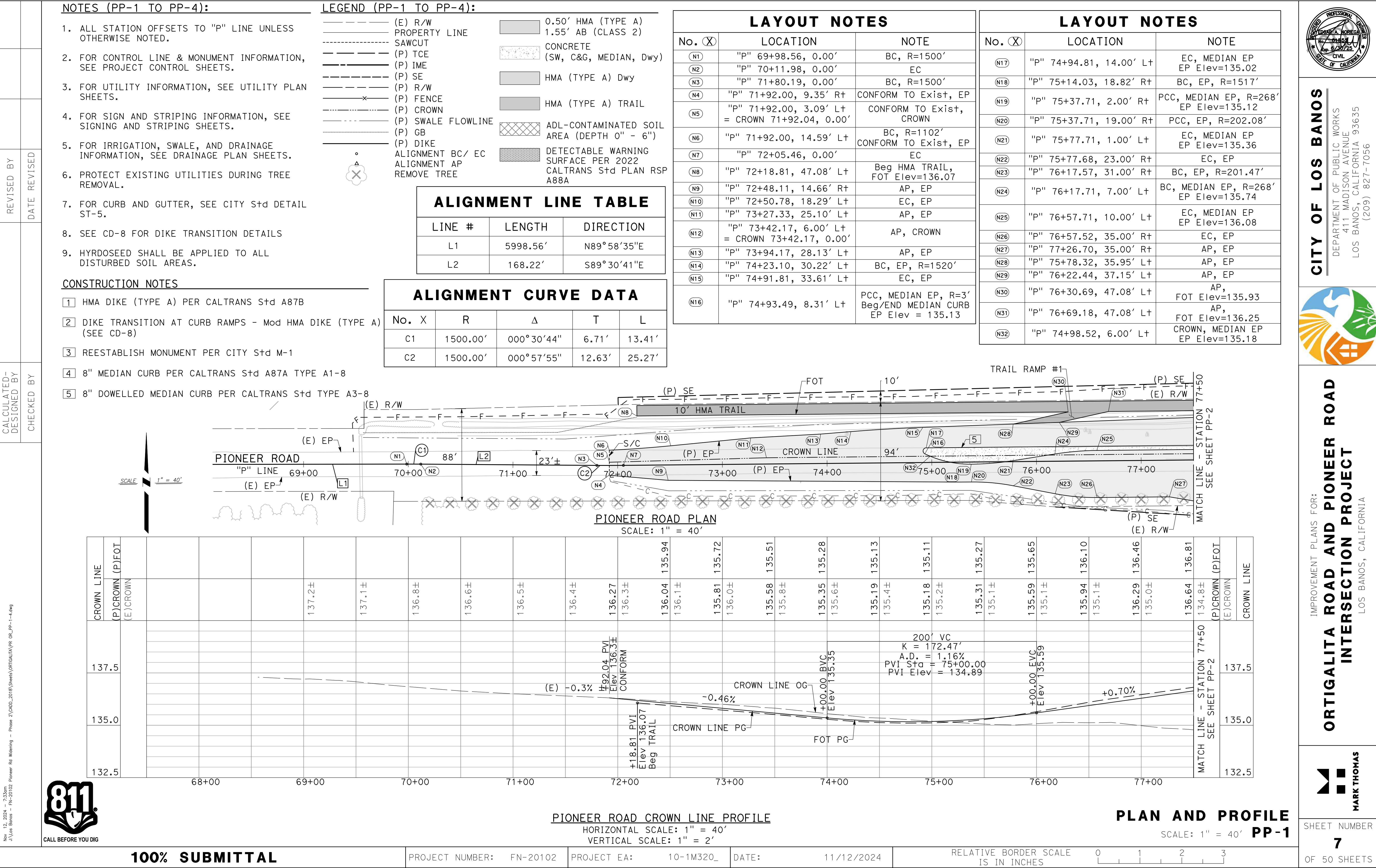
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(209) 827-7056



IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER
4
OF 50 SHEETS





100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA: 10-1M320_

DATE: 11/12/2024

RELATIVE BORDER SCALE
IS IN INCHES

0

1

2

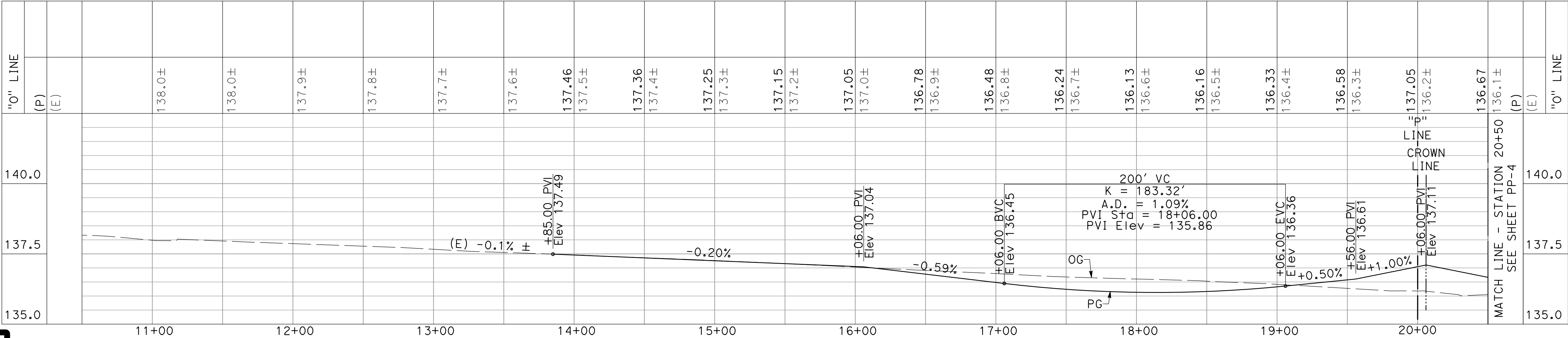
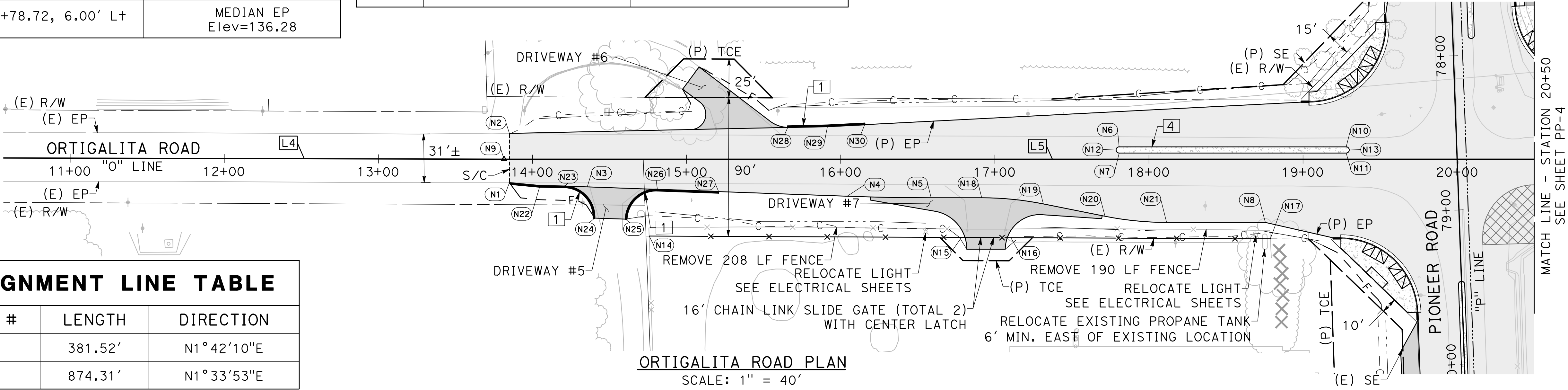
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LAYOUT NOTES		
No. (X)	LOCATION	NOTE
(N1)	"O" 13+85.00, 15.26' R+	CONFORM TO Exist, EP Beg HMA DIKE (TYPE A)
(N2)	"O" 13+85.00, 16.73' L+	CONFORM TO Exist, EP
(N3)	"O" 14+35.54, 17.95' R+	EC, EP
(N4)	"O" 16+04.17, 24.02' R+	BC, EP, R=1517'
(N5)	"O" 16+58.70, 25.00' R+	EC, EP
(N6)	"O" 17+80.72, 8.00' L+	BC, MEDIAN EP, R= 2' Beg/END MEDIAN CURB EP Elev=136.24
(N7)	"O" 17+80.72, 4.00' L+	EC, MEDIAN EP EP Elev=136.24
(N8)	"O" 18+74.55, 41.00' R+	AP, EP
(N9)	"O" 13+81.52, 0.00'	AP
(N10)	"O" 19+28.00, 8.00' L+	EC, MEDIAN EP EP Elev=136.55
(N11)	"O" 19+28.00, 4.00' L+	BC, MEDIAN EP, R=2' EP Elev=136.55
(N12)	"O" 17+78.72, 6.00' L+	MEDIAN EP Elev=136.28

LAYOUT NOTES		
No. (X)	LOCATION	NOTE
(N13)	"O" 19+30.00, 6.00' L+	MEDIAN EP EP Elev=136.58
(N14)	"O" 14+75.73, 50.35' R+	Beg CHAIN LINK FENCE Beg REMOVE (E) FENCE CONNECT TO (E) FENCE
(N15)	"O" 16+78.35, 50.74' R+	END CHAIN LINK FENCE Beg 16' CHAIN LINK ROLLING GATE
(N16)	"O" 17+10.35, 50.88' R+	END 16' CHAIN LINK ROLLING GATE Beg CHAIN LINK FENCE
(N17)	"O" 18+78.83, 51.62' R+	END CHAIN LINK FENCE END REMOVE (E) FENCE CONNECT TO (E) FENCE

LAYOUT NOTES		
No. (X)	LOCATION	NOTE
(N18)	"O" 16+91.51, 25.00' L+	BC, EP, R=206'
(N19)	"O" 17+31.51, 29.00' L+	EC, EP
(N20)	"O" 17+71.51, 37.00' L+	BC, EP, R=206'
(N21)	"O" 18+11.51, 41.00' L+	EC, EP
(N22)	"O" 14+04.86, 17.17' R+	HMA DIKE (TYPE A) AP, EP
(N23)	"O" 14+20.91, 17.50' R+	HMA DIKE (TYPE A) BC, EP
(N24)	"O" 14+40.36, 38.20' R+	END HMA DIKE (TYPE A), EC
(N25)	"O" 14+60.35, 38.87' R+	Beg HMA DIKE (TYPE A), BC
(N26)	"O" 14+81.04, 19.59' R+	HMA DIKE (TYPE A) EC, EP
(N27)	"O" 15+20.76, 21.02' R+	END HMA DIKE (TYPE A), EP
(N28)	"O" 15+65.62, 20.61' L+	Beg HMA DIKE (TYPE A), EP
(N29)	"O" 15+91.41, 21.17' L+	HMA DIKE (TYPE A) AP, EP
(N30)	"O" 16+15.58, 22.39' L+	END HMA DIKE (TYPE A), EP

ALIGNMENT LINE TABLE		
LINE #	LENGTH	DIRECTION
L4	381.52'	N1°42'10"E
L5	874.31'	N1°33'53"E



ORTIGALITA ROAD PROFILE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 2'

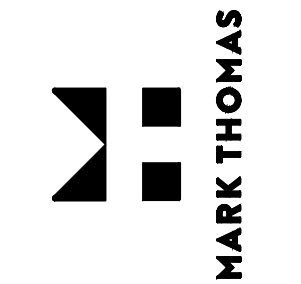
PLAN AND PROFILE
SCALE: 1" = 40' PP-3



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IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



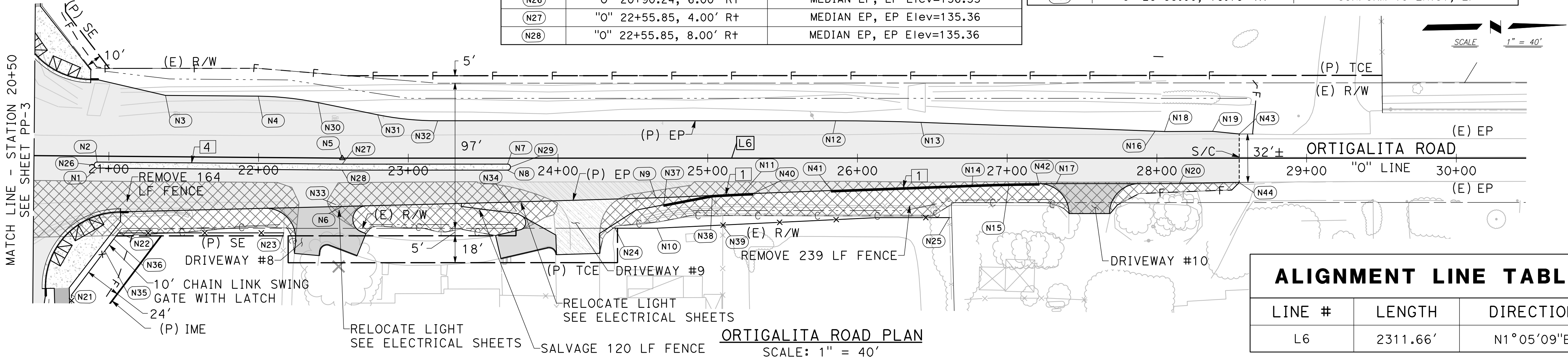
SHEET NUMBER
9
OF 50 SHEETS



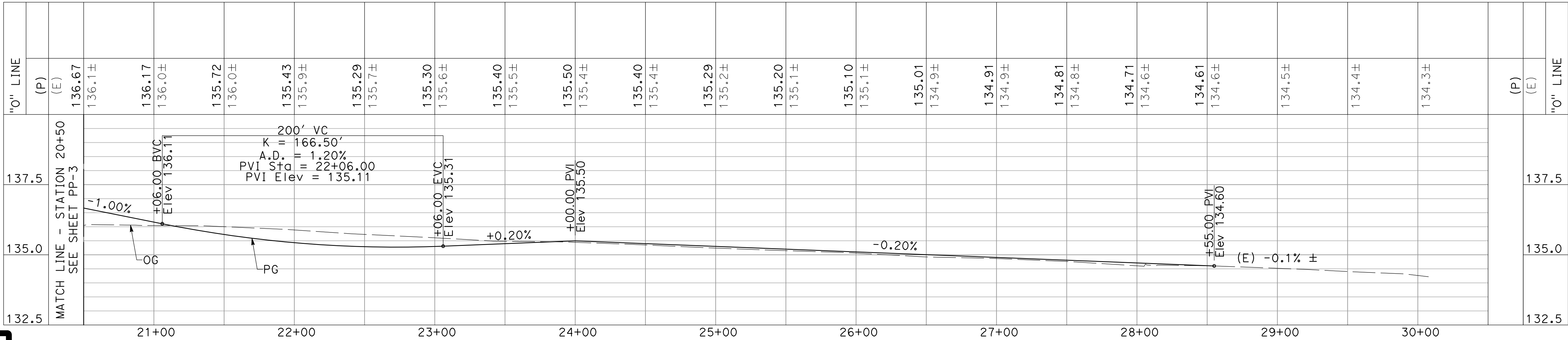
LAYOUT NOTES		
No. X	LOCATION	NOTE
(N1)	"O" 20+92.24, 8.00' R+	BC, MEDIAN EP, R=2' Beg/END MEDIAN CURB EP Elev=136.32
(N2)	"O" 20+92.24, 4.00' R+	EC, MEDIAN EP EP Elev=136.37
(N3)	"O" 21+37.46, 41.00' L+	AP, EP
(N4)	"O" 21.99.44, 41.00' L+	BC, EP, R=215.67'
(N5)	"O" 22+55.83, 0.00'	AP
(N6)	"O" 22+55.83, 32.30' R+	BC, EP, R=25122.60'
(N7)	"O" 23+66.30, 4.00' R+	BC, EP, R=2' EP Elev=135.51
(N8)	"O" 24+66.30, 8.00' R+	EC, MEDIAN EP EP Elev=135.51
(N9)	"O" 24+65.39, 26.47' R+	PCC, EP R=2279.93'
(N10)	"O" 24+66.17, 46.81' R+	CHAIN LINK FENCE AP
(N11)	"O" 25+23.01, 23.91' R+	EC, EP, HMA DIKE (TYPE A) AP
(N12)	"O" 25+85.34, 25.00' L+	BC, EP, R=1517'
(N13)	"O" 26+42.17, 23.92' L+	EC, EP

LAYOUT NOTES		
No. X	LOCATION	NOTE
(N14)	"O" 26+76.46 18.07' R+	BC, EP, R=1483', HMA DIKE (TYPE A)
(N15)	"O" 27+01.19, 17.34' R+	HMA DIKE (TYPE A) EC, EP
(N16)	"O" 27+98.82, 18.03' L+	BC, EP, R=1483'
(N17)	"O" 27+32.80, 17.00' R+	EC, EP
(N18)	"O" 28+05.07, 17.81' L+	EC, EP
(N19)	"O" 28+37.18, 17.95' L+	EP, AP
(N20)	"O" 28+15.00, 17.00' R+	EP, AP
(N21)	"O" 20+75.78, 92.99' R+	AP, CHAIN LINK FENCE
(N22)	"O" 21+06.82, 51.22' R+	AP, CHAIN LINK FENCE
(N23)	"O" 22+17.22, 50.25' R+	Beg CHAIN LINK FENCE Beg REMOVE (E) FENCE CONNECT TO (E) FENCE
(N24)	"O" 24+38.10, 46.83' R+	Beg CHAIN LINK FENCE Beg REMOVE (E) FENCE CONNECT TO (E) FENCE
(N25)	"O" 26+61.37, 39.73' R+	END CHAIN LINK FENCE END REMOVE (E) FENCE CONNECT TO (E) FENCE
(N26)	"O" 20+90.24, 6.00' R+	MEDIAN EP, EP Elev=136.35
(N27)	"O" 22+55.85, 4.00' R+	MEDIAN EP, EP Elev=135.36
(N28)	"O" 22+55.85, 8.00' R+	MEDIAN EP, EP Elev=135.36

LAYOUT NOTES		
No. X	LOCATION	NOTE
(N29)	"O" 23+68.30, 6.00' R+	MEDIAN EP, EP Elev=135.55
(N30)	"O" 22+39.44, 37.00' R+	EC, EP
(N31)	"O" 22+79.61, 29.00' R+	BC, EP, R=202'
(N32)	"O" 23+19.61, 25.00' R+	EC, EP
(N33)	"O" 22+51.77, 31.07' R+	Beg SALVAGE FENCE
(N34)	"O" 23+72.28, 35.42' R+	END SALVAGE FENCE
(N35)	"O" 20+97.82, 63.32' R+	END CHAIN LINK FENCE Beg 10' CHAIN LINK SWING GATE
(N36)	"O" 21+03.79, 55.30' R+	END 10' CHAIN LINK SWING GATE Beg CHAIN LINK FENCE
(N37)	"O" 24+70.66, 31.17' R+	Beg HMA DIKE (TYPE A)
(N38)	"O" 25+03.10, 24.96' R+	HMA DIKE (TYPE A) AP
(N39)	"O" 25+10.05, 45.23' R+	CONNECT TO (E) FENCE
(N40)	"O" 25+30.04, 23.64' R+	END HMA DIKE (TYPE A)
(N41)	"O" 25+82.71, 21.64' R+	Beg HMA DIKE (TYPE A)
(N42)	"O" 27+21.20, 17.30' R+	END HMA DIKE (TYPE A)
(N43)	"O" 28+55.00, 16.16' L+	CONFORM TO Exist, EP
(N44)	"O" 28+55.00, 16.16' R+	CONFORM TO Exist, EP



ALIGNMENT LINE TABLE		
LINE #	LENGTH	DIRECTION
L6	2311.66'	N1°05'09"E



ORTIGALITA ROAD PROFILE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 2'

PLAN AND PROFILE
SCALE: 1" = 40' PP-4

100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA: 10-1M320_

DATE:

11/12/2024

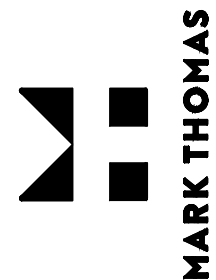
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IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER
10
OF 50 SHEETS

- NOTES:**
- CURB RAMPS SHALL BE CONSTRUCTED PER CITY OF LOS BANOS S+D ST-14.
 - RURAL ASPHALT DRIVEWAY SHALL BE CONSTRUCTED PER MERCED COUNTY S+D DW-04. AGGREGATE BASE QUANTIFIED WITH AGGREGATE BASE (CLASS 2).
 - RURAL Concrete DRIVEWAY SHALL BE CONSTRUCTED PER MERCED COUNTY S+D DW-04A. AGGREGATE BASE QUANTIFIED WITH AGGREGATE BASE (CLASS 2).
 - RAMP SLOPE SHALL NOT EXCEED 8.0% SLOPE. THE FLARED SIDES SHALL NOT EXCEED 10% SLOPE.
 - RADII FOR CURB & GUTTER IS BASED OFF THE FLOWLINE RADIUS.
 - RADII FOR MEDIAN CURB IS BASED OFF THE EDGE OF PAVEMENT.

- LEGEND:**
- 0.50' HMA (TYPE A)

1.55' AB (CLASS 2)

DETECTABLE WARNING SURFACE PER CALTRANS S+D PLAN A88A

ConcRETE (SW, C&G, MEDIAN, Dwy)

HMA (TYPE A) Dwy

HMA (TYPE A) TRAIL

REMOVE ConcRETE
- (P) CROWN

(E) R/W

FILL

CUT

(P) R/W

(P) TCE

(P) IME

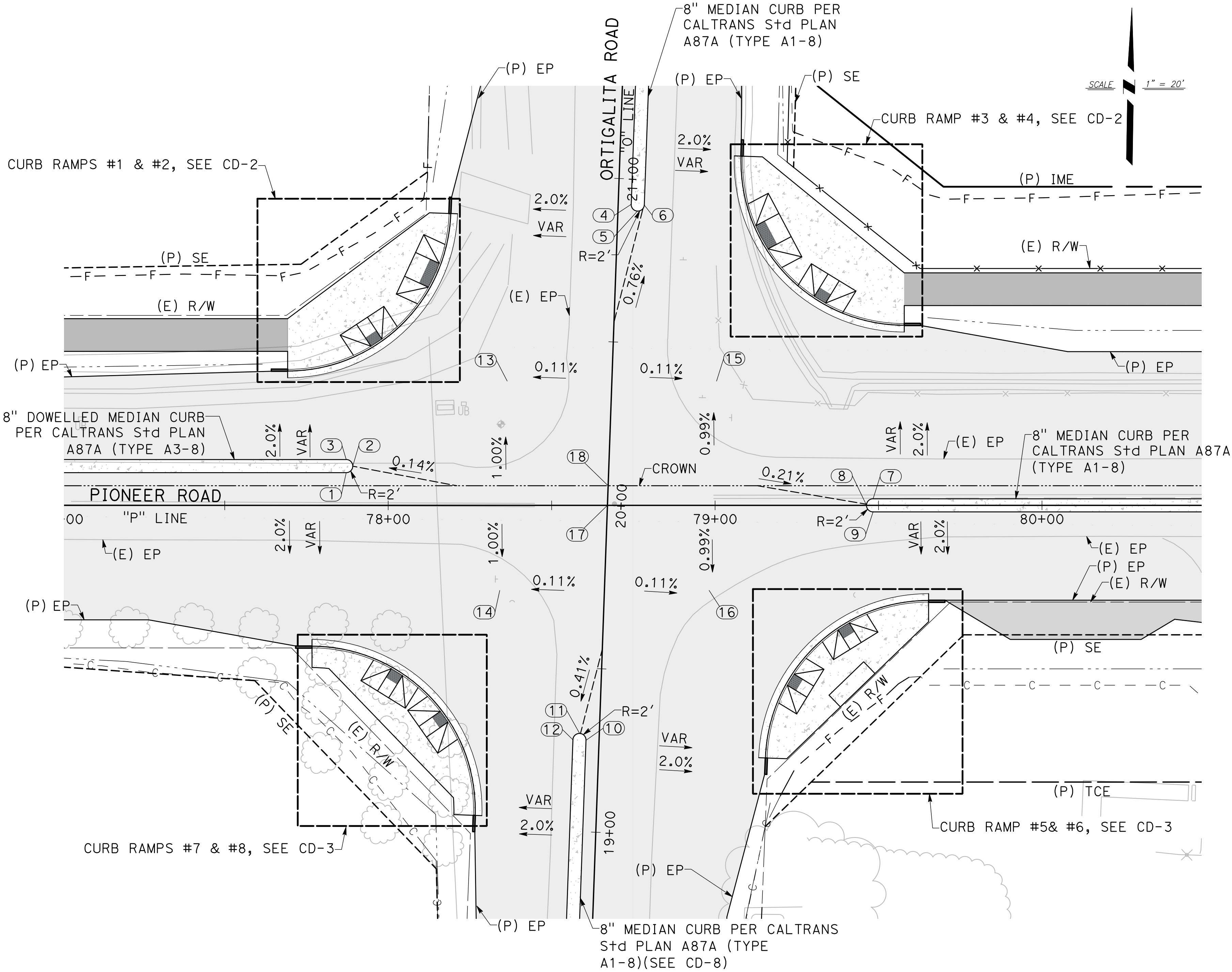
(P) GRADE BREAK

(P) SWALE FLOWLINE

(P) SE

(P) FENCE

LAYOUT NOTES		
No. (X)	LOCATION	NOTES
①	"P" 77+87.15, 10.00' L+	EC, MEDIAN EP, ELEV=136.97
②	"P" 77+89.15, 12.00' L+	MEDIAN EP, ELEV=137.00
③	"P" 77+87.15, 14.00' L+	BC, MEDIAN EP, ELEV=136.97
④	"O" 20+92.24, 4.00' R+	EC, MEDIAN EP, ELEV=136.32
⑤	"O" 20+90.24, 6.00' R+	MEDIAN EP, ELEV=136.35
⑥	"O" 20+92.24, 8.00' R+	BC, MEDIAN EP, ELEV=136.32
⑦	"P" 79+48.32, 2.00' L+	EC, MEDIAN EP, ELEV=136.94
⑧	"P" 79+46.32, 0.00'	MEDIAN EP, ELEV=136.97
⑨	"P" 79+48.32, 2.00' R+	BC, MEDIAN EP, ELEV=136.94
⑩	"O" 19+28.00, 4.00' L+	BC, MEDIAN EP, ELEV=136.55
⑪	"O" 19+30.00, 6.00' L+	MEDIAN EP, ELEV=135.58
⑫	"O" 19+28.00, 8.00' L+	EC, MEDIAN EP, ELEV=136.55
⑬	"P" 78+36.40, 38.00' L+	GB, ELEV=136.65
⑭	"P" 78+34.12, 26.00' R+	GB, ELEV=136.75
⑮	"P" 79+00.44, 38.00' L+	GB, ELEV=136.60
⑯	"P" 78+98.16, 26.00' R+	GB, ELEV=136.80
⑰	"O" 20+00.00 POT="P" 78+67.07	ELEV=137.05
⑱	"O" 20+06.00, 0.00'="P" 78+67.28, 6.00' L+= PIONEER CROWN	GB, ELEV=137.11



PIONEER ROAD & ORTIGALITA ROAD INTERSECTION GRADING

SCALE: 1" = 20'

CONSTRUCTION DETAILS

SCALE: 1" = 20' CD-1

100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA: 10-1M320_

DATE:

11/12/2024

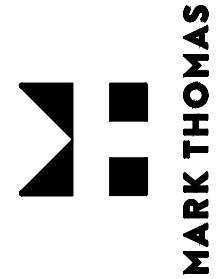
RELATIVE BORDER SCALE
IS IN INCHES



CITY OF LOS BANOS
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411 MADISON AVENUE
LOS BANOS, CALIFORNIA 93635
(209) 827-7056



IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA

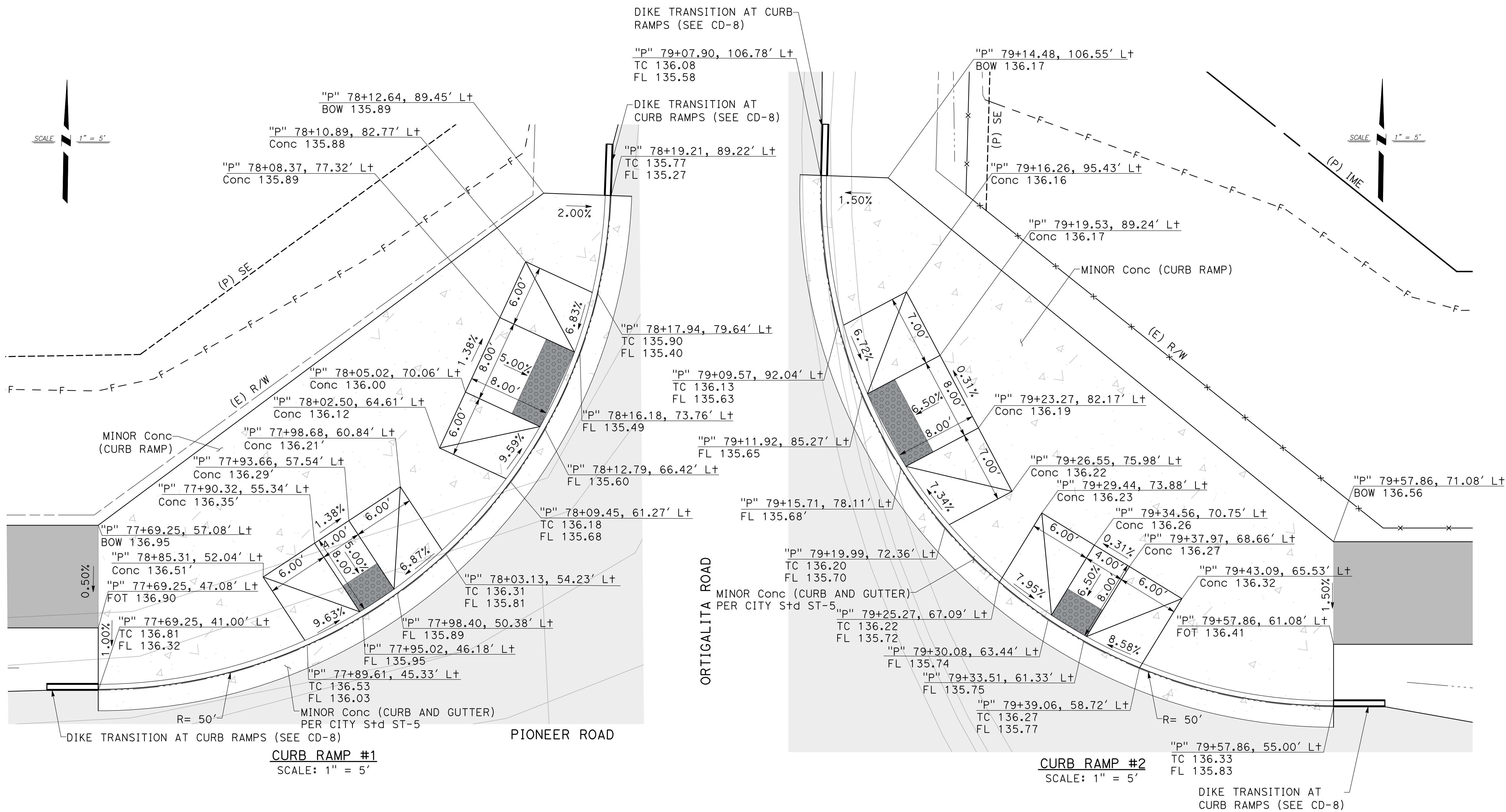


SHEET NUMBER

11

OF 50 SHEETS

Nov 12, 2024 - 2:35pm J:\Los Banos - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR_CD-1-1.dwg				
	CALCULATED- DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



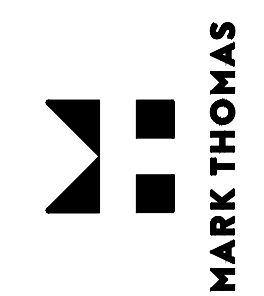
CONSTRUCTION DETAILS

SCALE: 1" = 5' **CD-2**

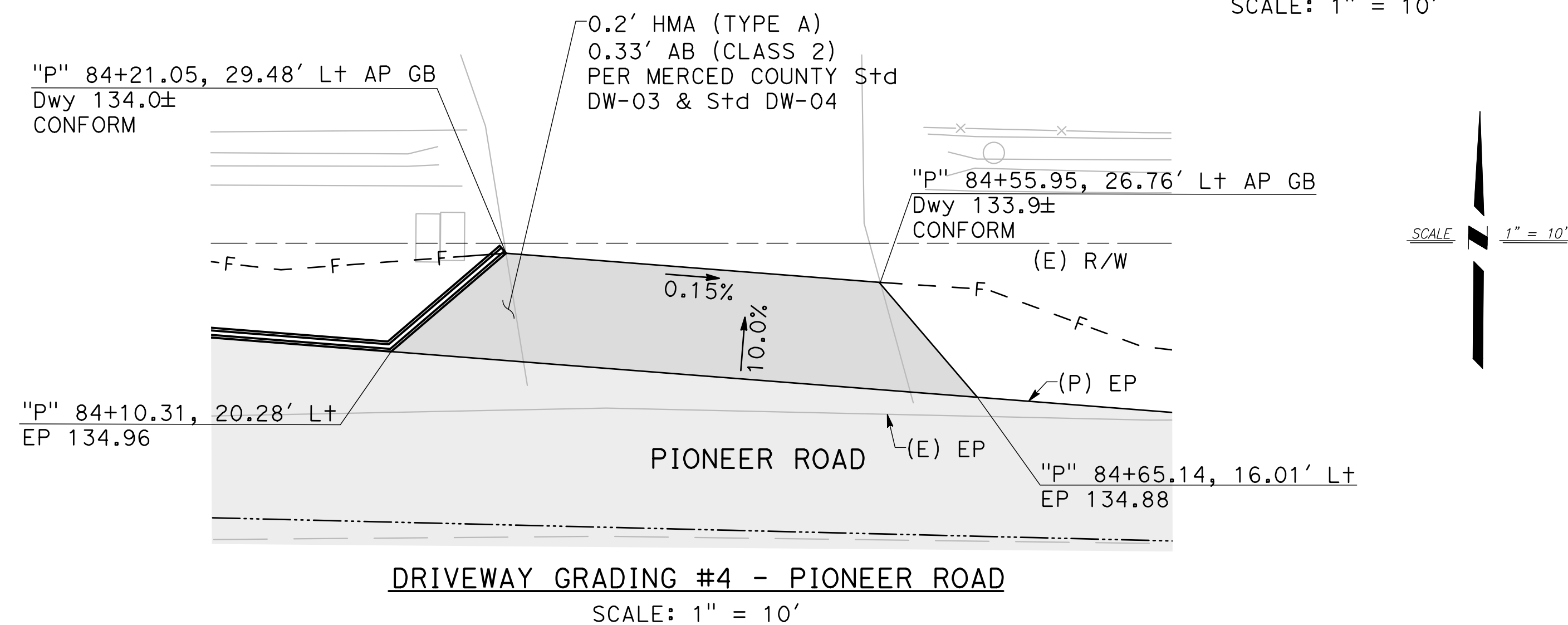
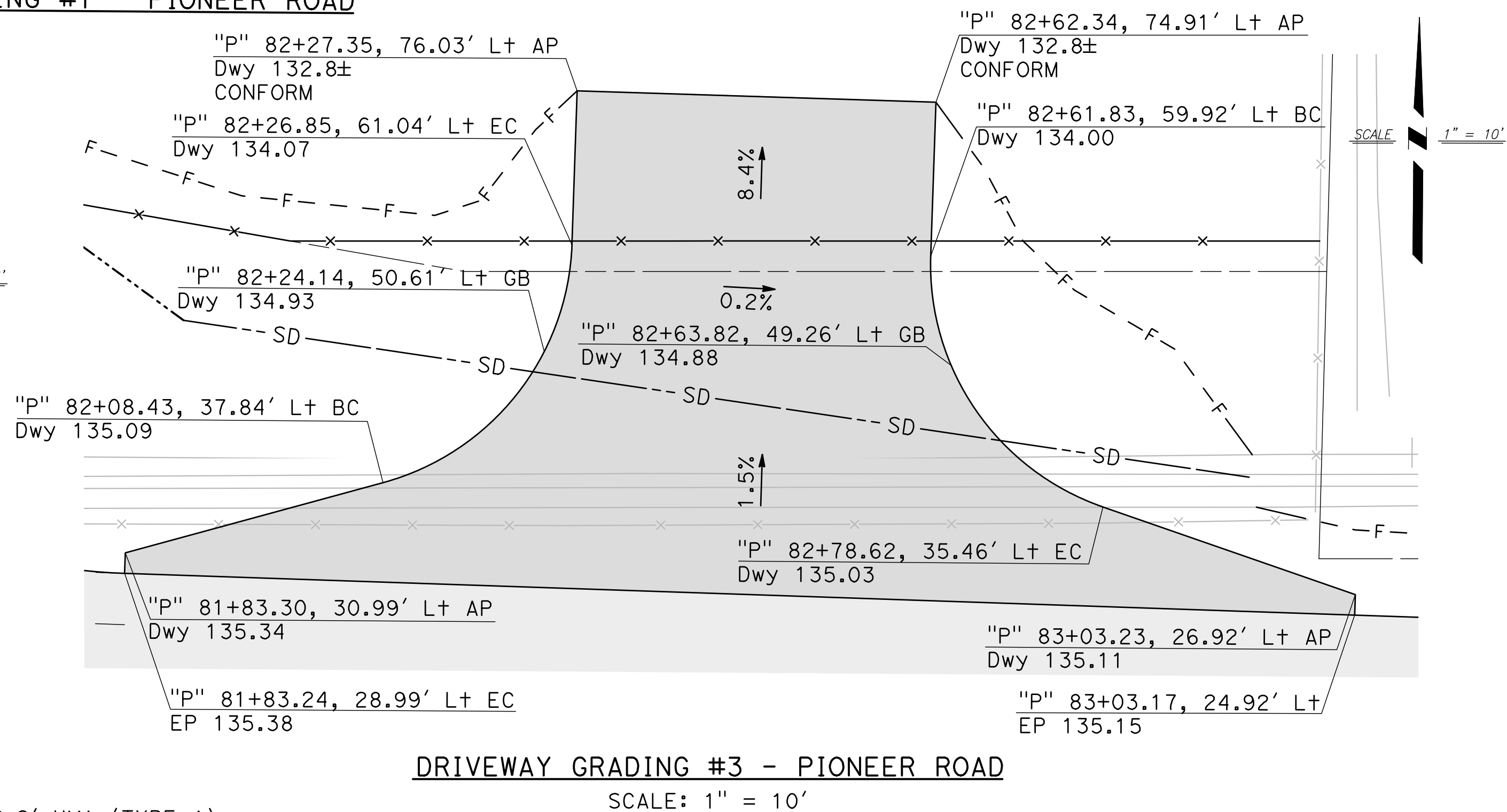
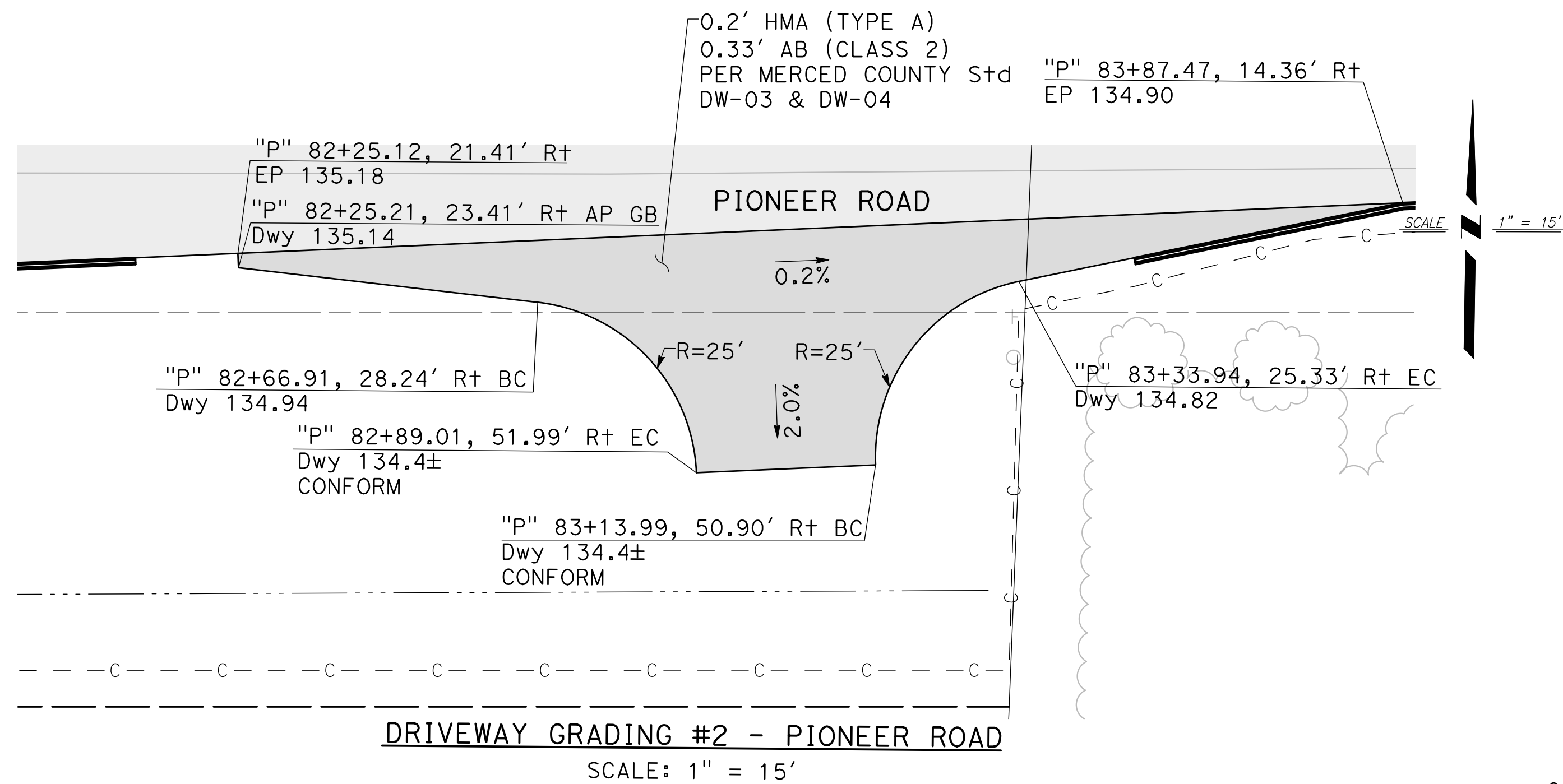
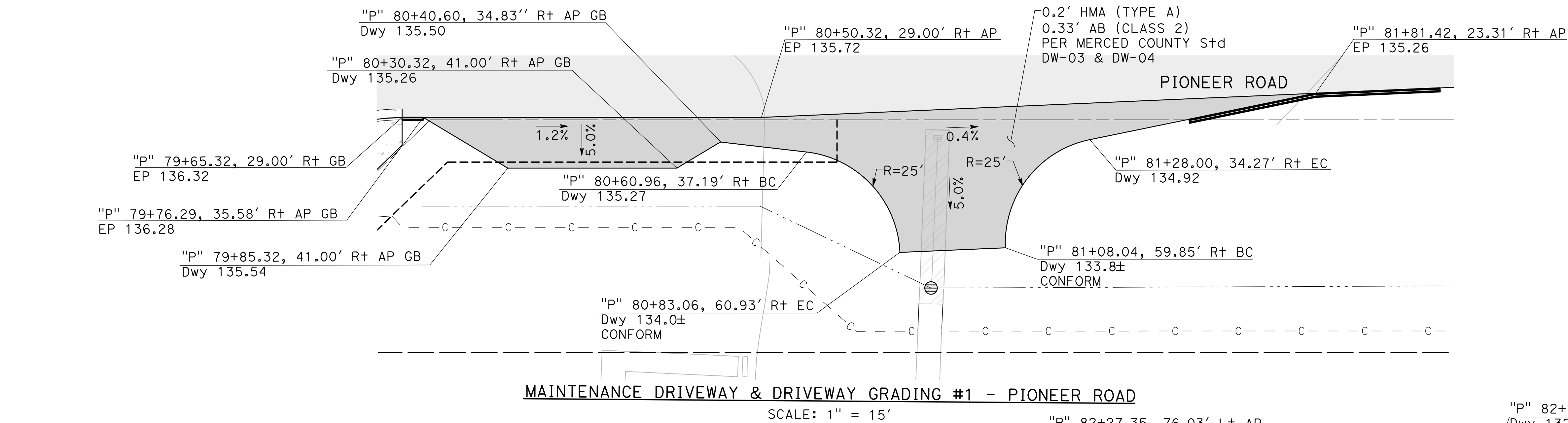
CITY OF LOS BANOS
DEPARTMENT OF PUBLIC WORKS
411 MADISON AVENUE
LOS BANOS, CALIFORNIA 93635
(209) 827-7056



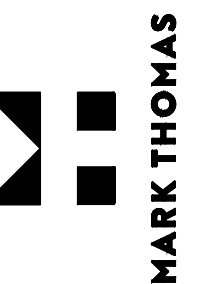
IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



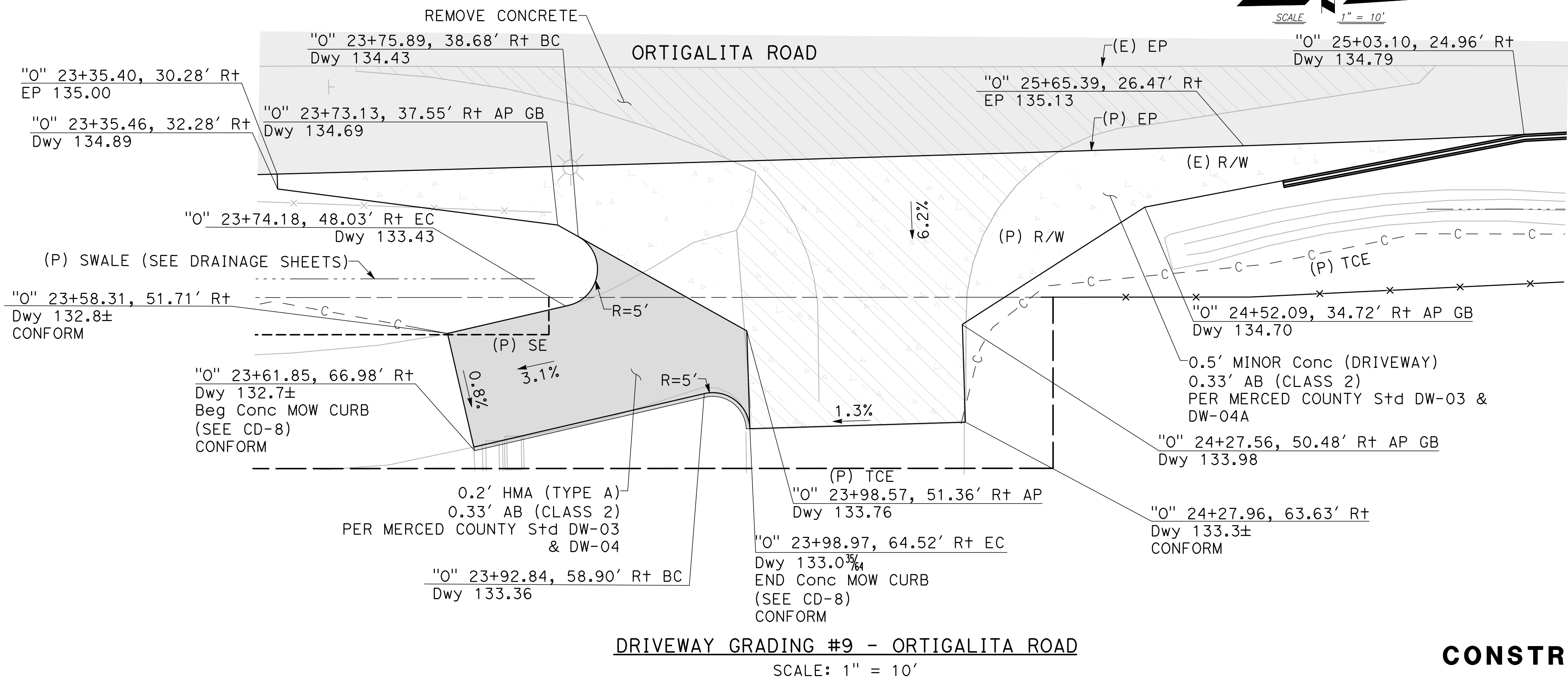
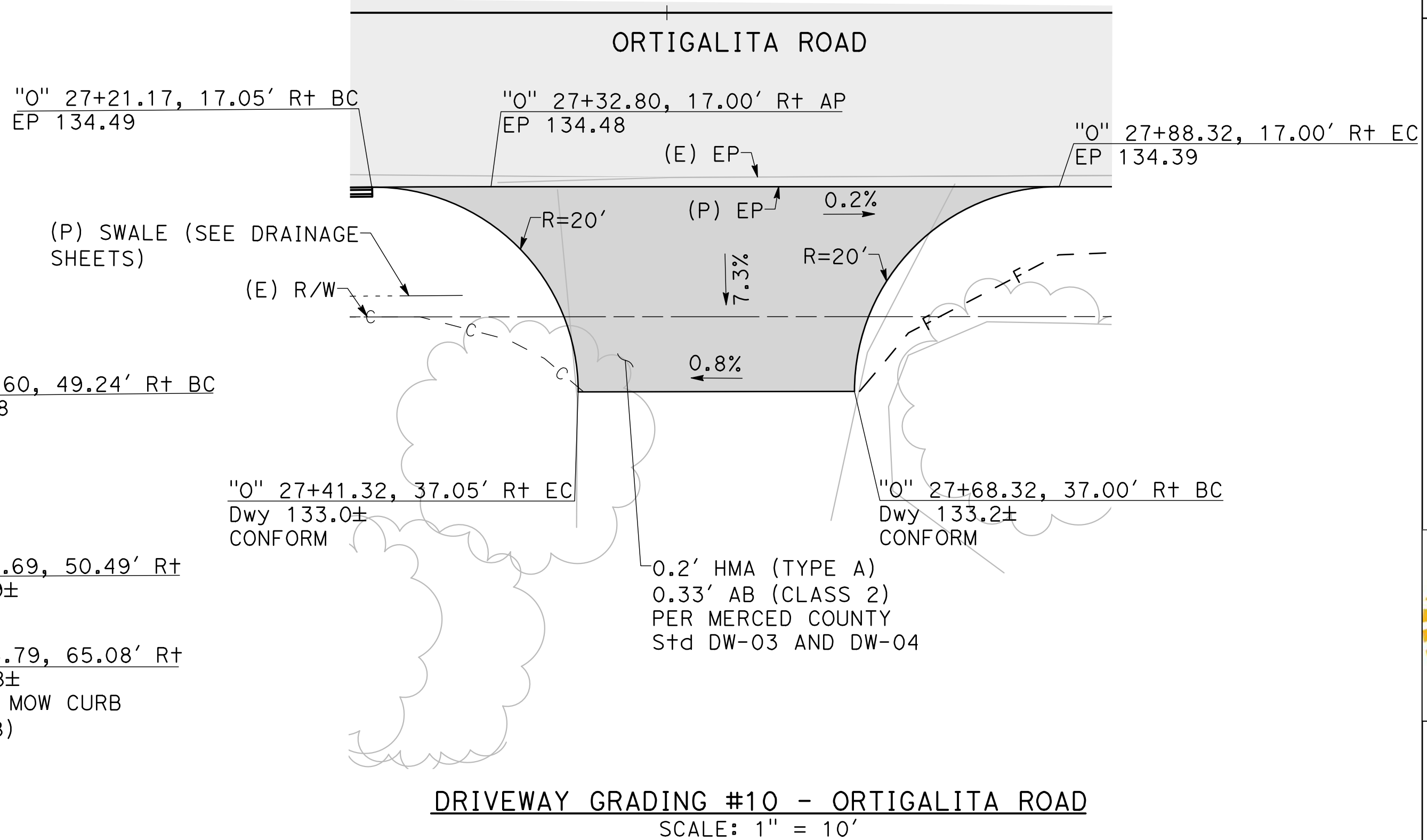
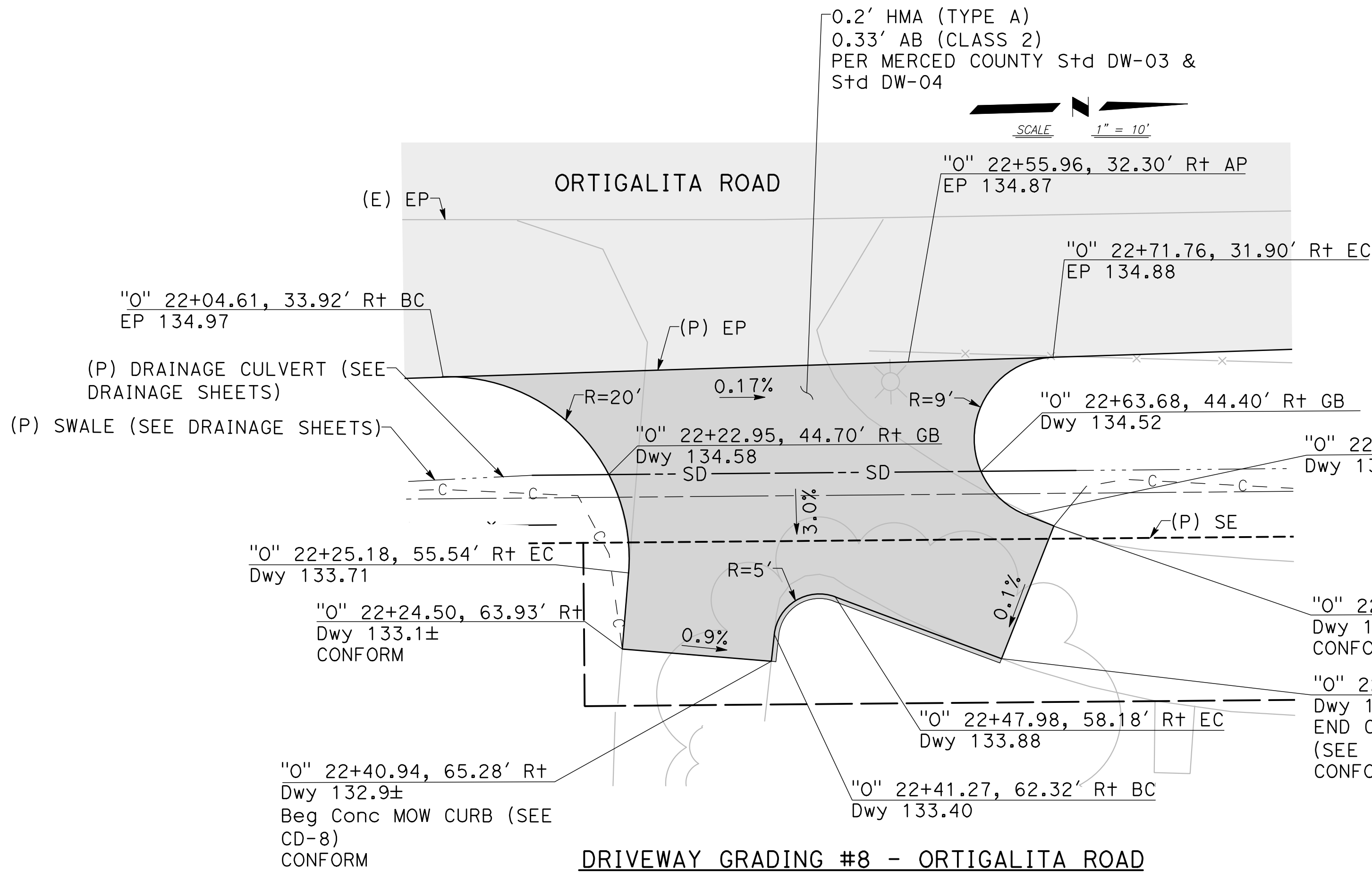
Nov 12, 2024 - 2:35pm J:\Los Banos - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR_CD--4-dwg				
	CALCULATED- DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



CONSTRUCTION DETAILS



Nov 12, 2024 - 2:17pm J:\Los Banos - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR_CD--4-dwg				
	CALCULATED- DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		

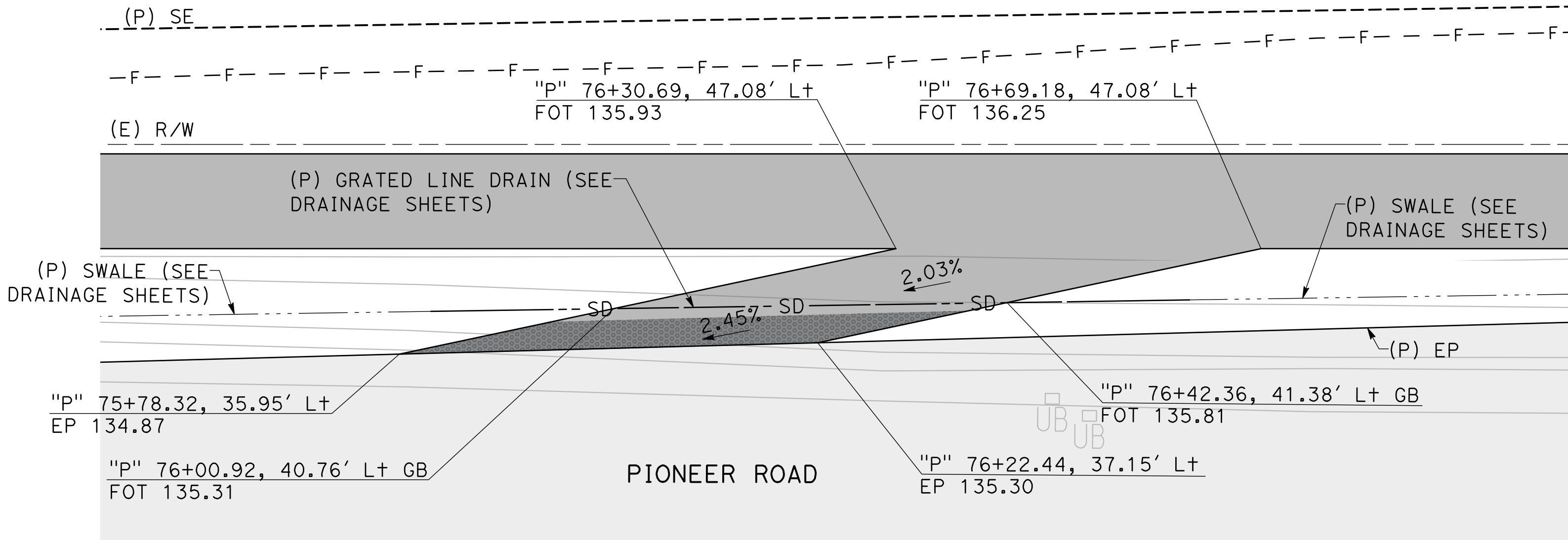


CONSTRUCTION DETAILS

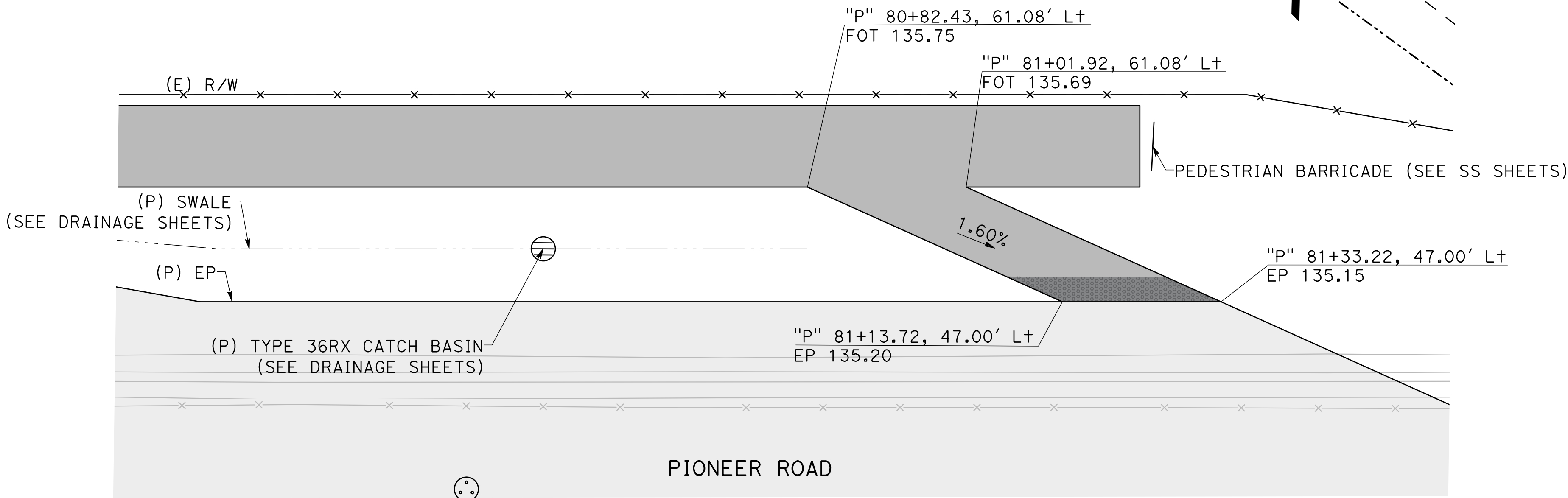
SCALE: 1" = 10' **CD-6**



	REVISED BY		DATE	REVISED	
	CALCULATED- DESIGNED BY		CHECKED BY		
Nov. 12, 2024 - 7:37pm U:\Los Banos - FN-20102 Pioneer Rd Widening - Phase 2\OOD_2018\Sheets\ORTIGALITA PR OR_CD-4-8.dwg					



TRAIL RAMP #1 - PIONEER ROAD
SCALE: 1" = 10'



TRAIL RAMP #2 - PIONEER ROAD
SCALE: 1" = 10'

CONSTRUCTION DETAILS
CD-7

SCALE: 1" = 10'

100% SUBMITTAL

PROJECT NUMBER: FN-20102

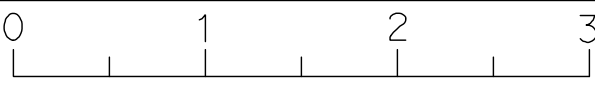
PROJECT EA:

10-1M320_

DATE:

11/12/2024

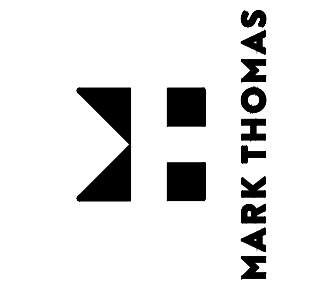
RELATIVE BORDER SCALE
IS IN INCHES



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(209) 827-7056



IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER
17
OF 50 SHEETS

Nov 12, 2024 - 2:35pm J:\Los Barrios - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PA OR D-1-3.dwg				
	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		

NOTES:

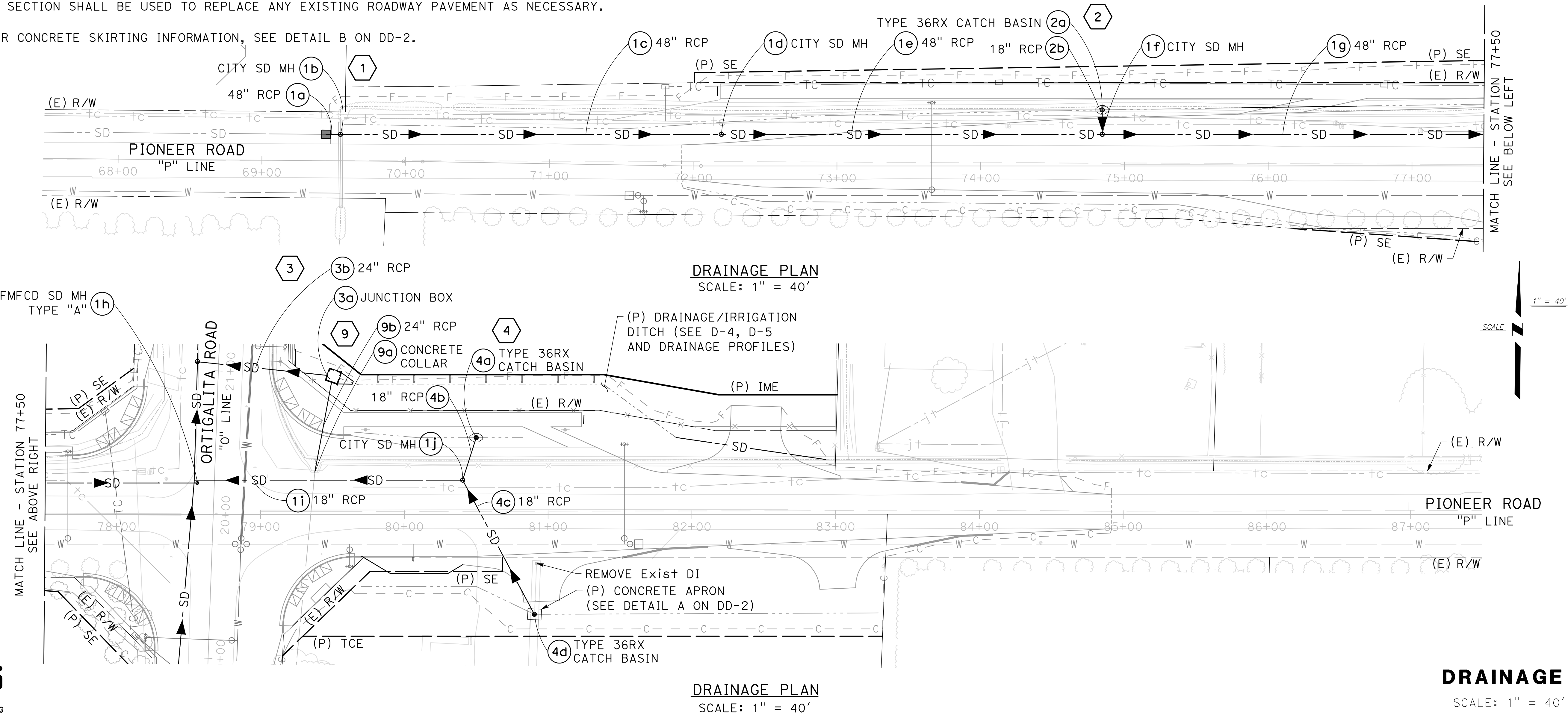
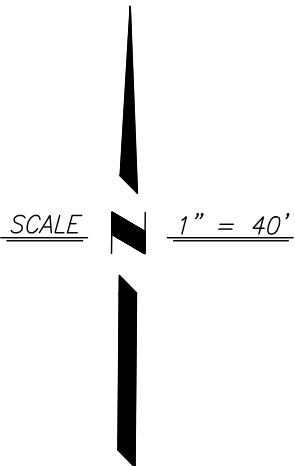
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES 48 HOURS PRIOR TO WORKING AROUND ANY OF THEIR UNDERGROUND UTILITIES FOR VERIFICATION AT THE SITE OF ANY POSSIBLE CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
2. THE TYPES, LOCATIONS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. THE CITY OF LOS ANGELES AND ITS CONSULTANT, MARK THOMAS & COMPANY INC., CAN NOT ASSUME THE RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UTILITIES NOR THE EXISTENCE OF OTHER BURIED OBJECTS OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS.
3. THE CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS PRIOR TO INSTALLATION.
4. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
5. FOR WATER SYSTEM INFORMATION, SEE WATER SHEETS.
6. FOR SWALE INFORMATION, SEE D-4 AND D-5.
7. OVERHEAD UTILITIES NOT SHOWN FOR CLARITY PURPOSES.
8. TRENCHING AND BACKFILL SHALL CONFORM TO CITY STD BF-1, BF-2, BF-3, AND SD-6
9. PER MERCED COUNTY STD SD-06, THE GRATE ELEVATION OF THE TYPE 36RX CATCH BASIN SHALL BE DEPRESSED 3" FROM THE SWALE FLOWLINE.
10. WHERE STORM DRAIN TRENCHING IS REQUIRED OUTSIDE OF THE INTERSECTION RECONSTRUCTION LIMITS, A 1.20' THICK HMA (TYPE A) SECTION SHALL BE USED TO REPLACE ANY EXISTING ROADWAY PAVEMENT AS NECESSARY.
11. FOR CONCRETE SKIRTING INFORMATION, SEE DETAIL B ON DD-2.

LEGEND:

---	JT	(P) JOINT COMM/ELEC UG
---	j+	(E) JOINT COMM/ELEC UG
---	o	(P) MANHOLE
---	+o+	(P) HYDRANT
---	o	(P) WATER VALVE
---	⬡	DRAINAGE SYSTEM NUMBER
---	⊗	DRAINAGE SYSTEM UNIT
---	---	(P) SWALE
---	▶	(P) DRAINAGE FLOW DIRECTION

---	R/W	(P) R/W
---	SE	(P) SE
---	TCE	(P) TCE
---	IME	(P) IME
---	PROPERTY LINE	PROPERTY LINE
---	SAWCUT	SAWCUT
---	GRADE BREAK	GRADE BREAK
---	AT&T UG FIBER OPTIC	AT&T UG FIBER OPTIC
---	AT&T UG TELECOMMUNICATION	AT&T UG TELECOMMUNICATION
---	(P) AT&T UG TELECOMMUNICATION	(P) AT&T UG TELECOMMUNICATION
---	PG&E GAS	PG&E GAS
---	CITY OF LOS BANOS WATER	CITY OF LOS BANOS WATER
---	CITY OF LOS BANOS STORM DRAIN	CITY OF LOS BANOS STORM DRAIN
---	CCID UG IRRIGATION	CCID UG IRRIGATION
---	CCID DRAINAGE DITCH FLOWLINE	CCID DRAINAGE DITCH FLOWLINE
---	(P) CCID IRRIGATION DITCH	(P) CCID IRRIGATION DITCH
---	FUTURE CITY OF LOS BANOS MASTER PLAN WATER	FUTURE CITY OF LOS BANOS MASTER PLAN WATER
---	FUTURE CITY OF LOS BANOS MASTER PLAN DRAINAGE	FUTURE CITY OF LOS BANOS MASTER PLAN DRAINAGE
---	(P) CITY OF LOS BANOS WATER	(P) CITY OF LOS BANOS WATER
---	(P) CITY OF LOS BANOS DRAINAGE	(P) CITY OF LOS BANOS DRAINAGE
---	(P) STORM DRAIN CAP FOR FUTURE EXTENSION (SEE DD-2)	(P) STORM DRAIN CAP FOR FUTURE EXTENSION (SEE DD-2)
---	(P) DRAINAGE INLET WITH CONCRETE SKIRTING	(P) DRAINAGE INLET WITH CONCRETE SKIRTING
---	(P) 1.20' HMA (TYPE A) - EXISTING PAVEMENT	(P) 1.20' HMA (TYPE A) - EXISTING PAVEMENT
---	REPLACEMENT FOR SD TRENCH	REPLACEMENT FOR SD TRENCH

---	SCALE	1" = 40'
-----	-------	----------



CALL BEFORE YOU DIG

100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA:

10-1M320_

DATE:

11/12/2024

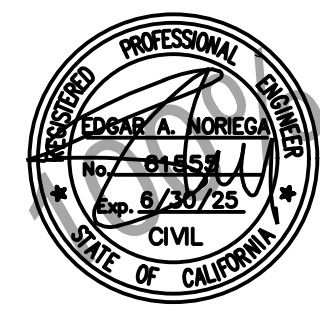
RELATIVE BORDER SCALE
IS IN INCHES

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DRAINAGE PLAN

SCALE: 1" = 40'

D-1



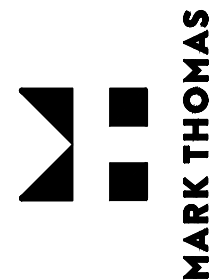
CITY OF LOS BANOS

DEPARTMENT OF PUBLIC WORKS
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LOS BANOS, CALIFORNIA 93635
(209) 827-7056



IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**

IMPROVEMENT PLANS FOR ROAD AND PAVEMENT SECTION PROJECTS

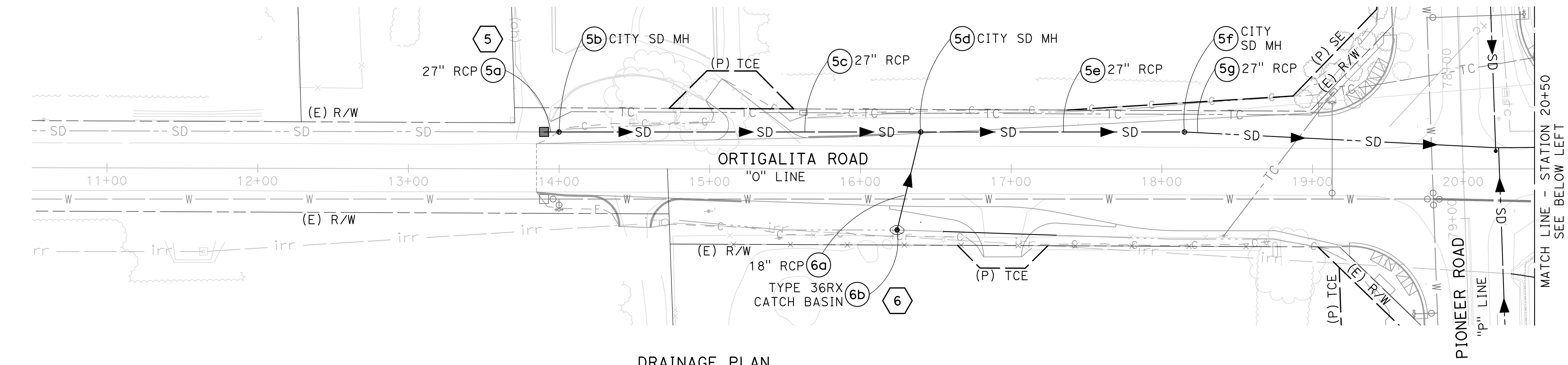


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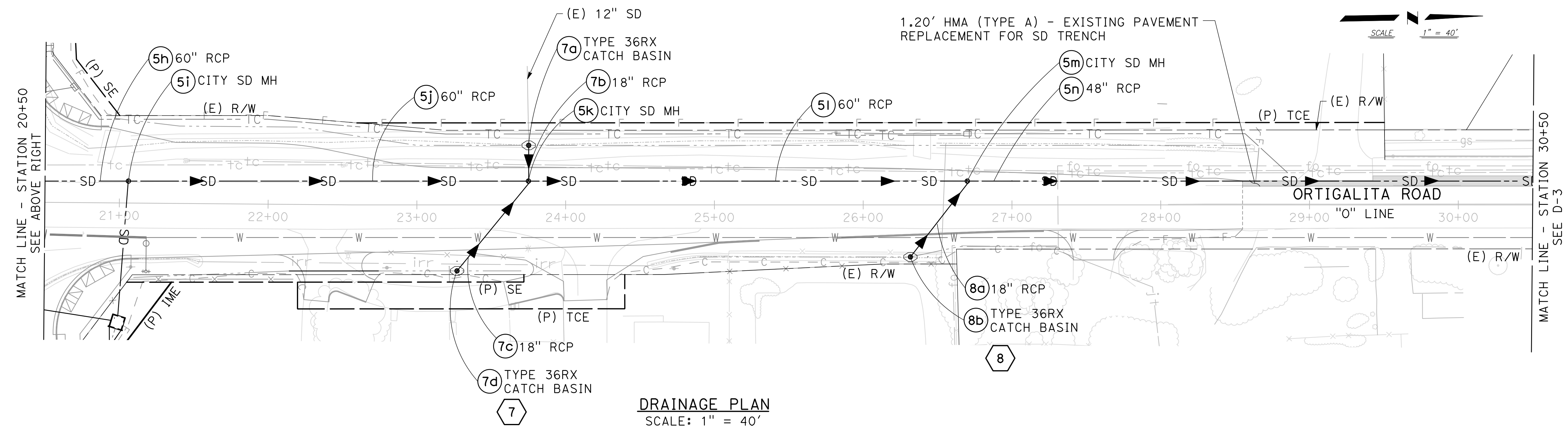
19

OF 50 SHEETS

Nov 12, 2024 - 2:55pm J:\Los Barrios - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PA OR D-1-3.dwg	CALCULATED- DESIGNED BY	REVISED BY	
	CHECKED BY	DATE REVISED	



DRAINAGE PLAN
SCALE: 1" = 40'

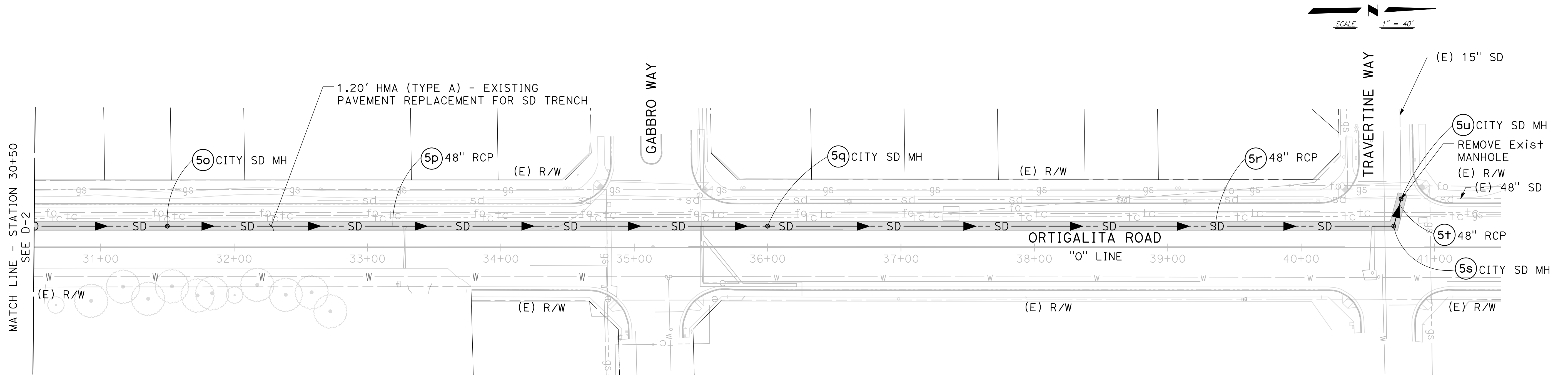


DRAINAGE PLAN
SCALE: 1" = 40'

DRAINAGE PLAN
SCALE: 1" = 40' **D-2**



Nov 12, 2024 - 7:39am J:\Los Bonos - RN-20102 Pioneer Rd Widening - Phase 2\CADD\2018\Sheets\CRITICAL\TA\PR OR_D-1--3.dwg				
	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



DRAINAGE PLAN
SCALE: 1" = 40'



DRAINAGE PLAN

SCALE: 1" = 40'

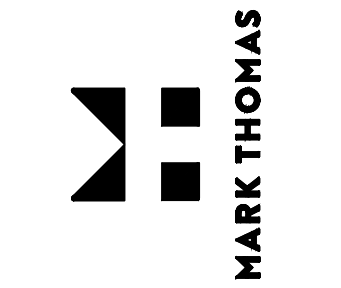
D-3



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(209) 827-7056



IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER
21
OF 50 SHEETS

[illegible]

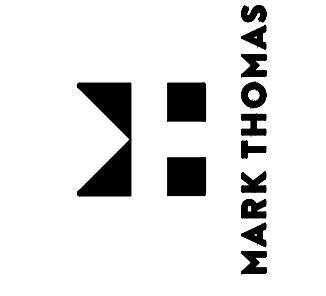


PROJECT NUMBER:	FN-20102	PROJECT EA:	10-1M320_	DATE:	11/12/2024
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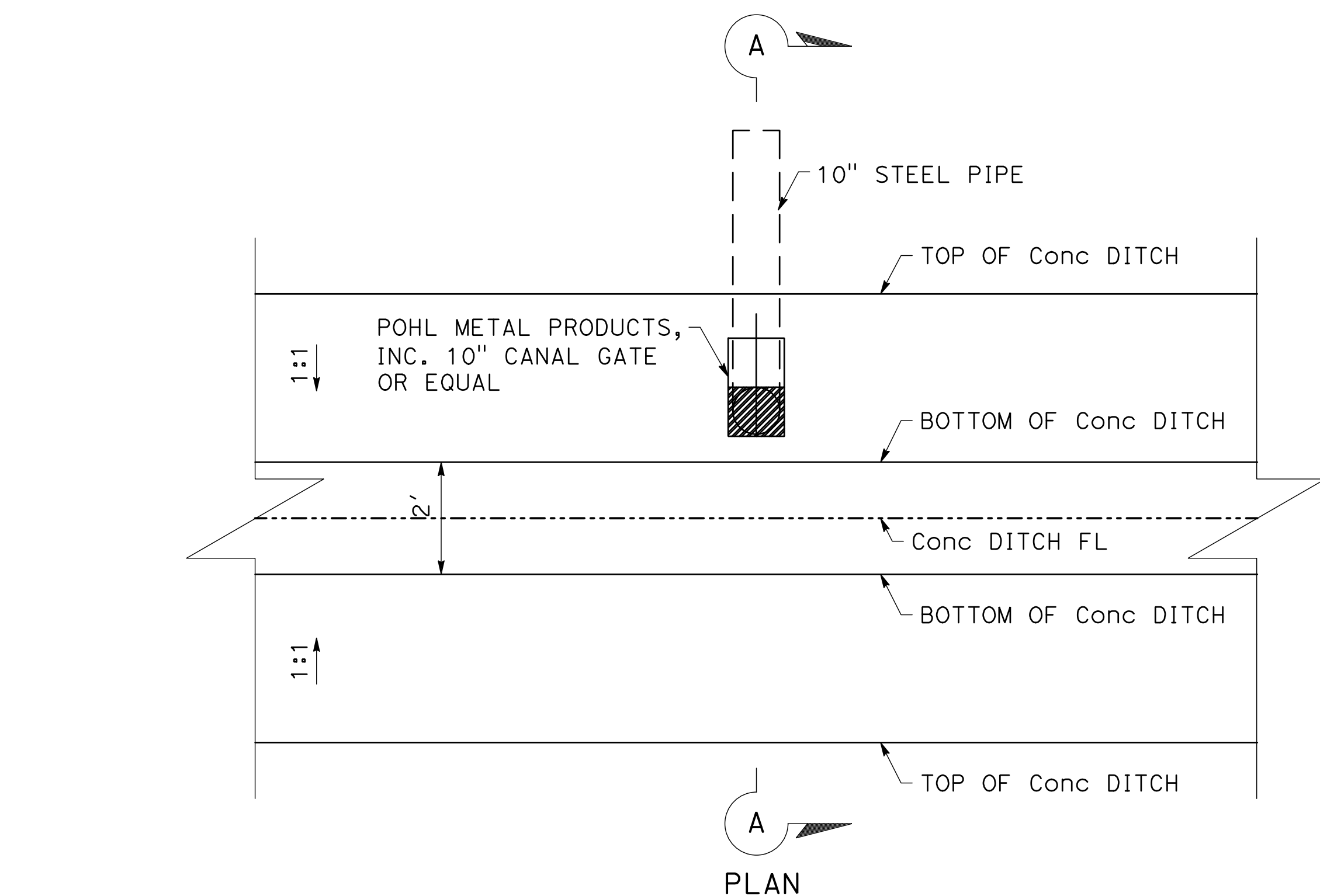
RELATIVE BORDER SCALE
IS IN INCHES



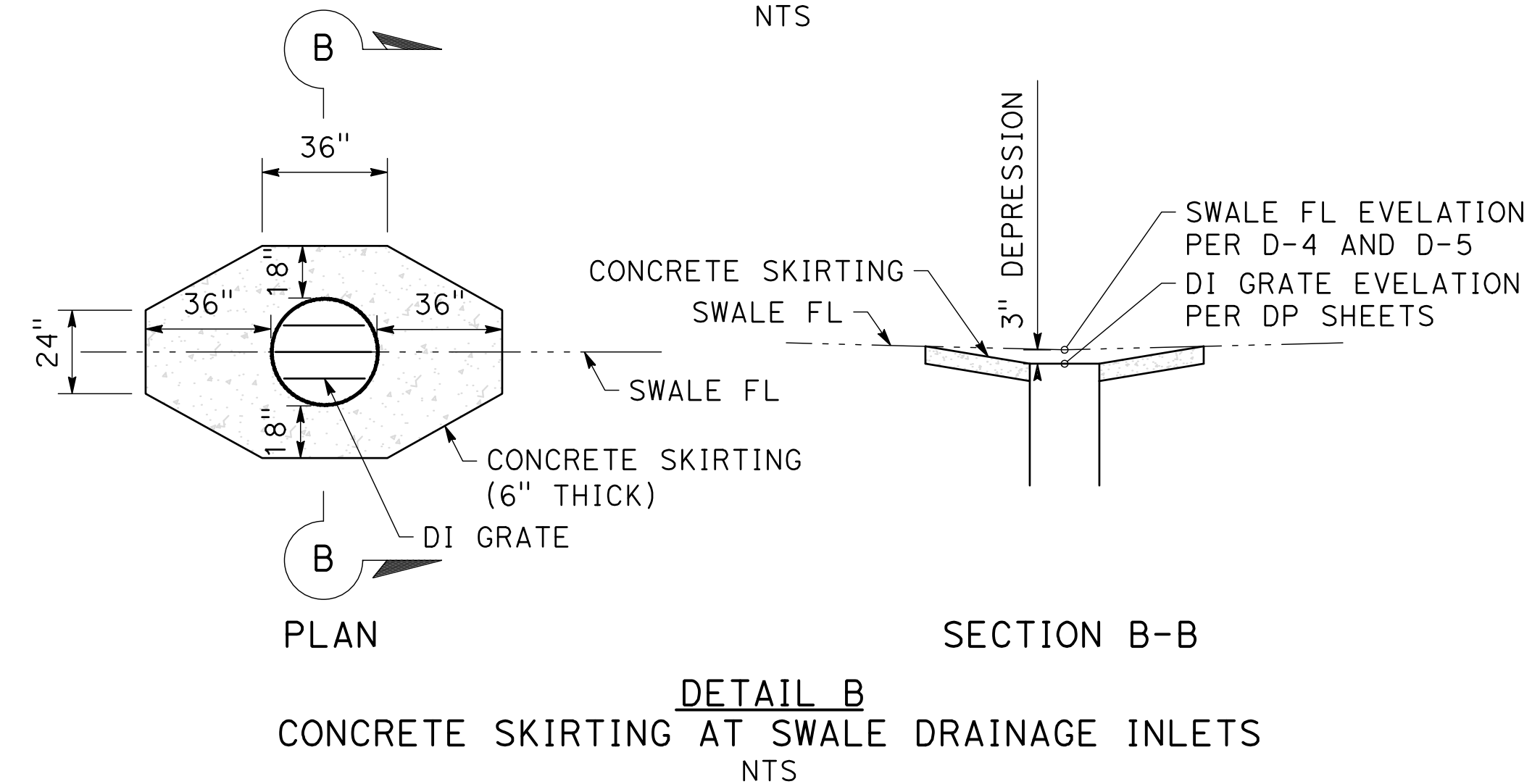
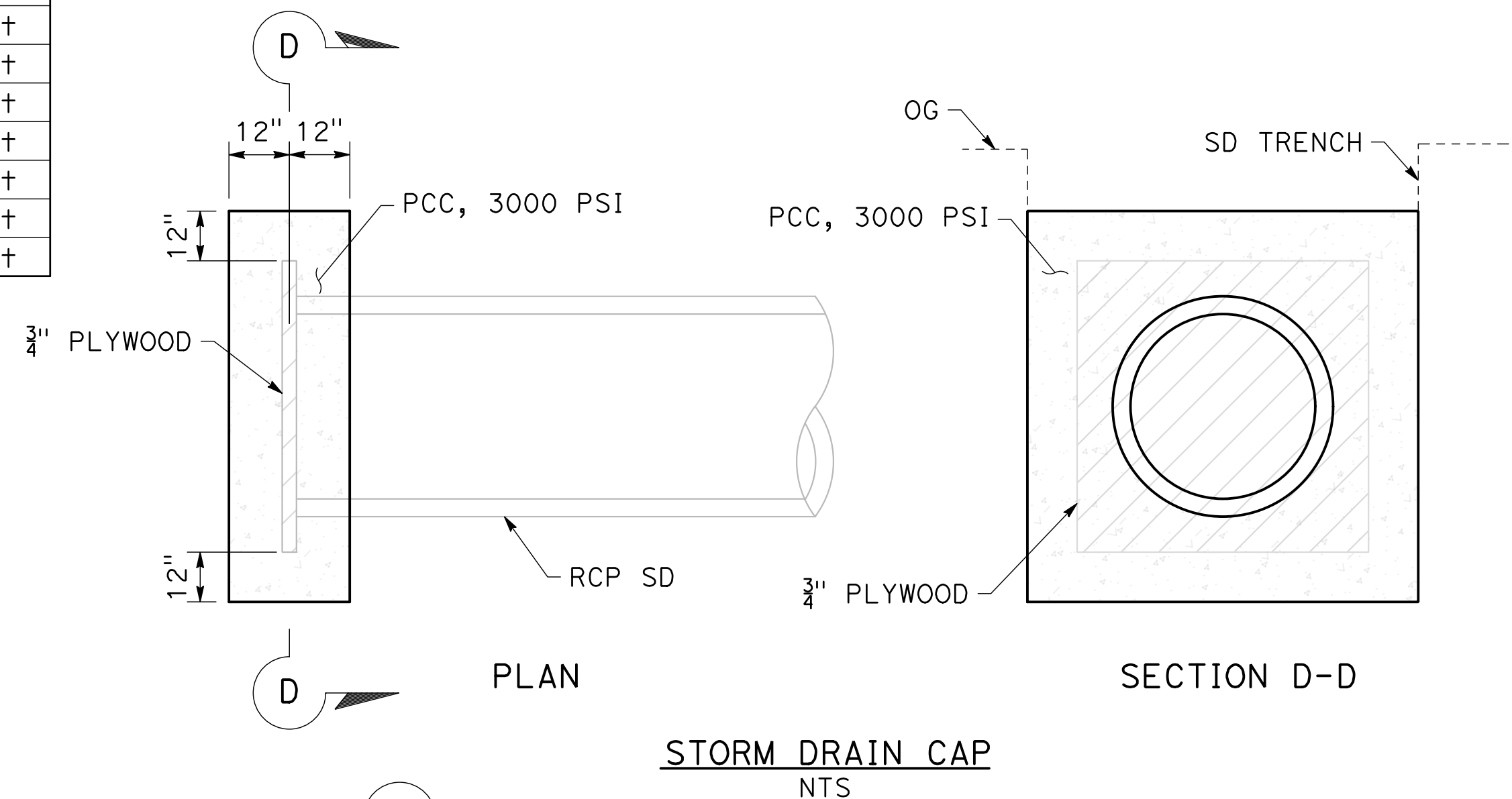
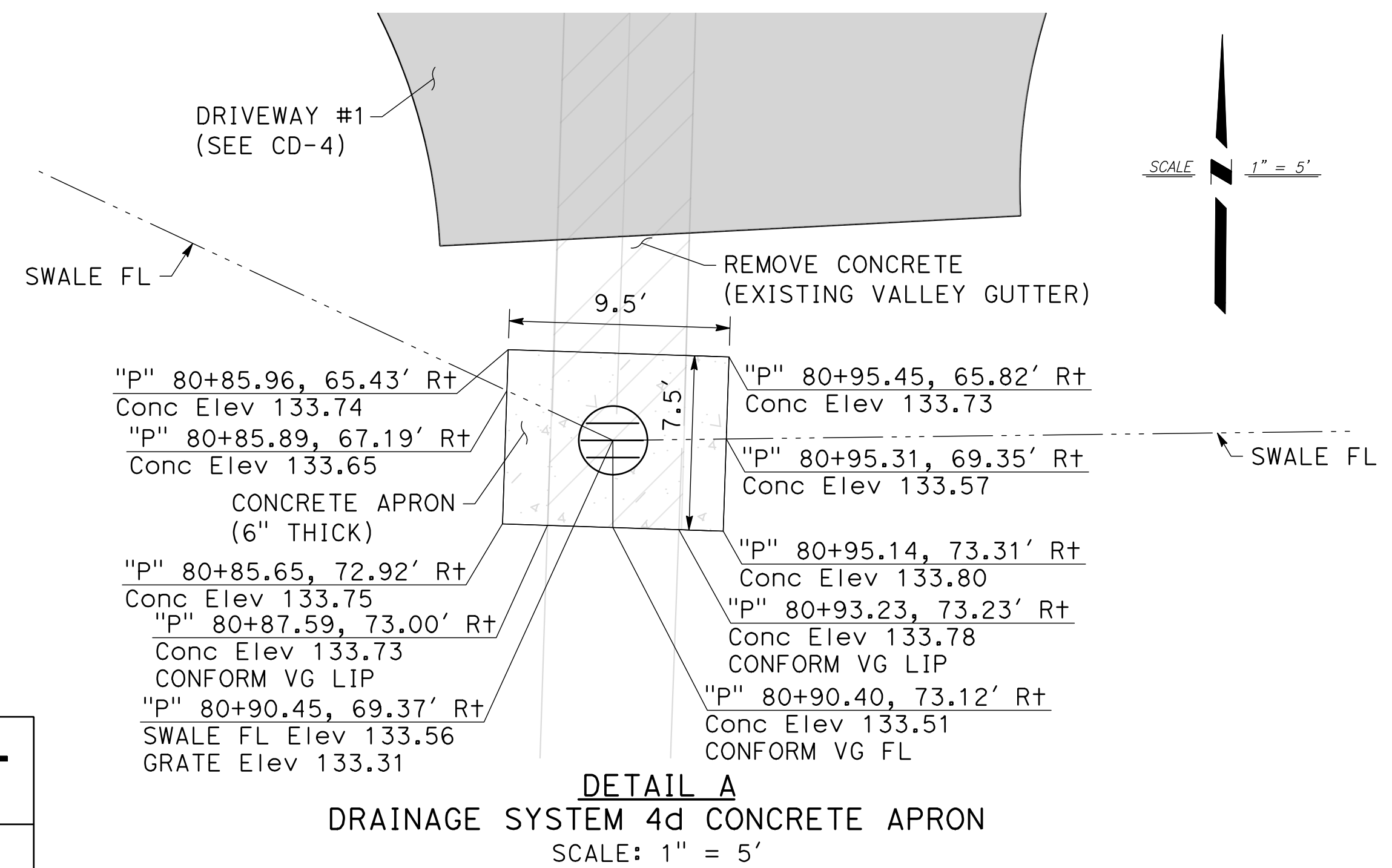
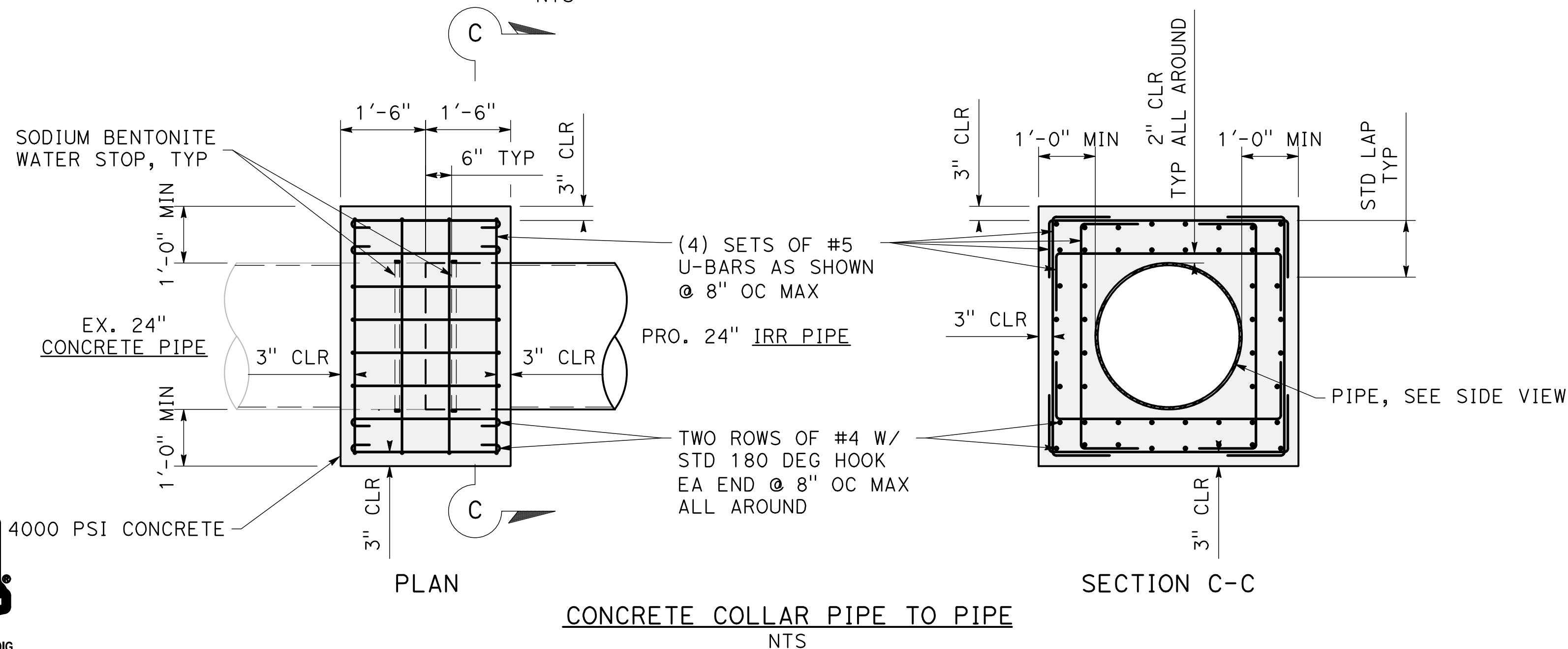
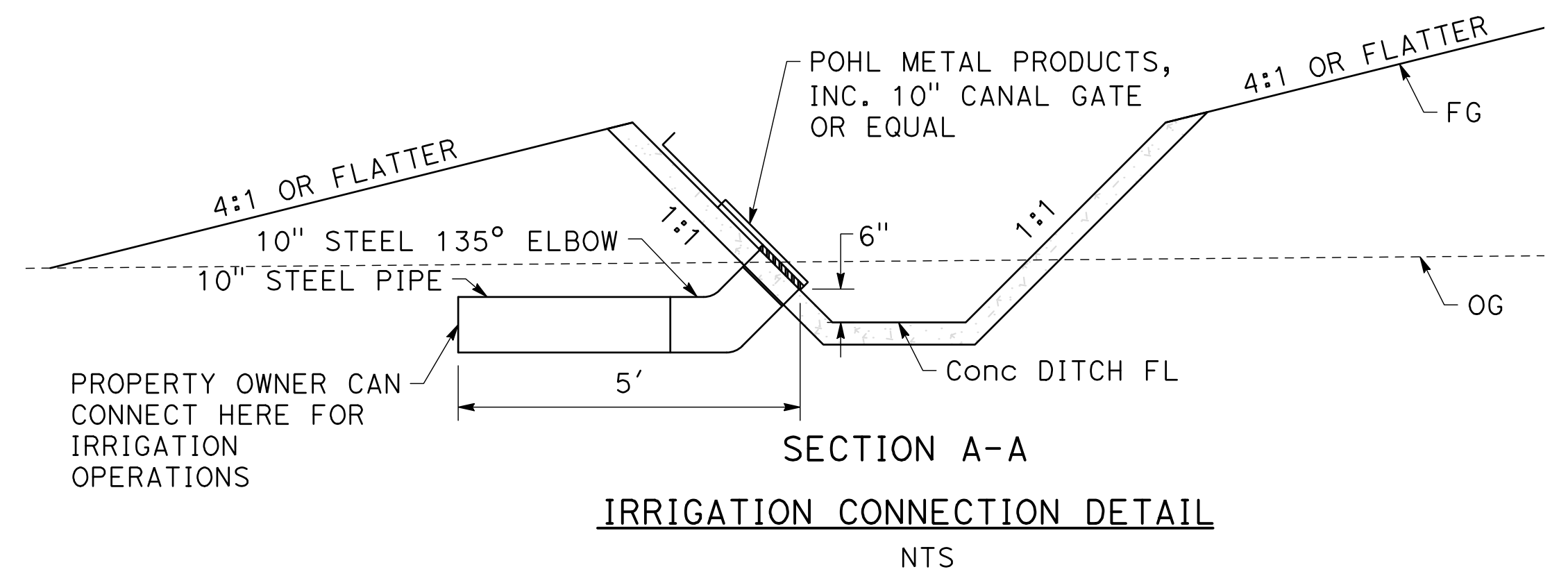
SHEET NUMBER
27
OF 50 SHEETS



Nov 12, 2024 - 7:45am J:\Los Banos - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR_DD--1-2.dwg				
	CALCULATED- DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



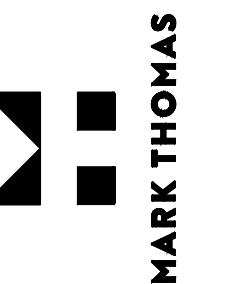
IRRIGATION EQUIPMENT	
DESCRIPTION	LOCATION
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IRR CONNECTION	"P" 80+06.83, 92.12' L+
IRR CONNECTION	"P" 80+31.83, 92.12' L+
IRR CONNECTION	"P" 80+56.83, 92.12' L+
IRR CONNECTION	"P" 80+81.83, 92.12' L+
IRR CONNECTION	"P" 81+06.83, 92.12' L+
IRR CONNECTION	"P" 81+31.83, 92.12' L+



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(209) 827-7056



IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



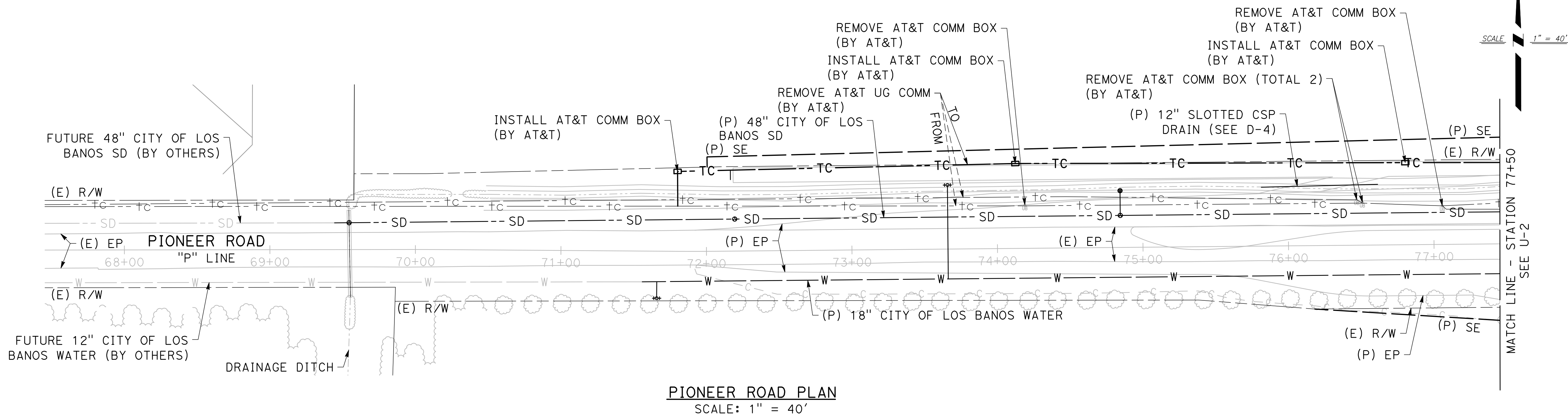
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	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES FOR VERIFICATION AT THE SITE OF ANY POSSIBLE CONFLICTS WITH THEIR UNDERGROUND UTILITIES AND THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES 48 HOURS PRIOR TO WORKING AROUND ANY POSSIBLE CONFLICTS WITH THEIR UNDERGROUND UTILITIES AND THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. THE TYPES, LOCATIONS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. THE CITY OF LOS BANOS AND ITS CONSULTANTS, MARK THOMAS & COMPANY INC., CAN NOT ASSUME THE RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UTILITIES NOR THE EXISTENCE OF OTHER BURIED OBJECTS OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS.
4. FOR UTILITY CONTACT INFORMATION, SEE GENERAL NOTES SHEET.
5. CONTRACTOR SHALL ADJUST THE GRADE OF THE PIPELINES AS NECESSARY TO MEET MINIMUM COVER AND AVOID UTILITY CONFLICTS. IF THE CONTRACTOR CANNOT MAINTAIN THE MINIMUM COVER, THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
6. FOR IRRIGATION, SWALE, AND DRAINAGE INFORMATION, SEE DRAINAGE PLAN SHEETS.
7. FOR WATER SYSTEM INFORMATION, SEE WATER SHEETS.

LEGEND:

_____	(E) R/W
_____	(P) R/W
_____	(P) SE
_____	(P) TCE
=====	(P) IME
_____	(E) PROPERTY LINE
_____ +c _____ (oh) _____	(E) AT&T OH COMM
_____ -- +c _____	(E) AT&T UG COMM
_____ fo _____	(E) AT&T UG FIBER
_____ e _____ (oh) _____	(E) PG&E OH ELEC
_____ --- gs _____	(E) PG&E GAS
_____ irr _____	(E) CCID UG Irr
_____	(E) CCID IRR DITCH
_____ j + _____ (oh) _____	(E) JOINT COMM/ELEC OH
_____ sd _____	(E) CITY OF LOS BANOS SD
_____ -- j + _____	(E) JOINT COMM/ELEC UG
_____ w _____	(E) CITY OF LOS BANOS WATER
_____	(P) CCID Irr DITCH
_____ -- SD _____	(P) CITY OF LOS BANOS SD
_____ w _____	(P) CITY OF LOS BANOS WATER
_____ E _____ (OH) _____	(P) OH ELEC
_____ TC _____ (OH) _____	(P) OH COMM
_____ JT _____ (OH) _____	(P) JOINT COMM/ELEC OH
_____ -- SD _____	FUTURE CITY OF LOS BANOS SD
_____ w _____	FUTURE CITY OF LOS BANOS WATER
_____ -- JT _____	(P) JOINT COMM/ELEC UG
⊙	(P) DRAINAGE INLET (SEE DRAINAGE SHEETS)
⊙	(P) MANHOLE (SEE DRAINAGE SHEETS)
+O+	(P) HYDRANT (SEE WATER SHEETS)



UTILITY PLAN

SCALE: 1" = 40'



CALL BEFORE YOU DIG

100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA:

10-1M320_

DATE:

11/12/2024

RELATIVE BORDER SCALE
IS IN INCHES



CITY OF LOS BANOS

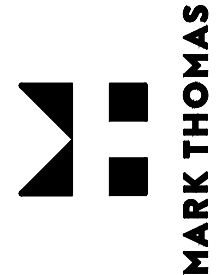
DEPARTMENT OF PUBLIC WORKS
411 MADISON AVENUE
LOS BANOS, CALIFORNIA 93635
(209) 827-7056



IMPROVEMENT PLANS FOR: ORTIGALITA ROAD AND PIONEER ROAD INTERSECTION PROJECT

IMPROVEMENT PLANS FOR:

OS BANOS, CALIFORNIA

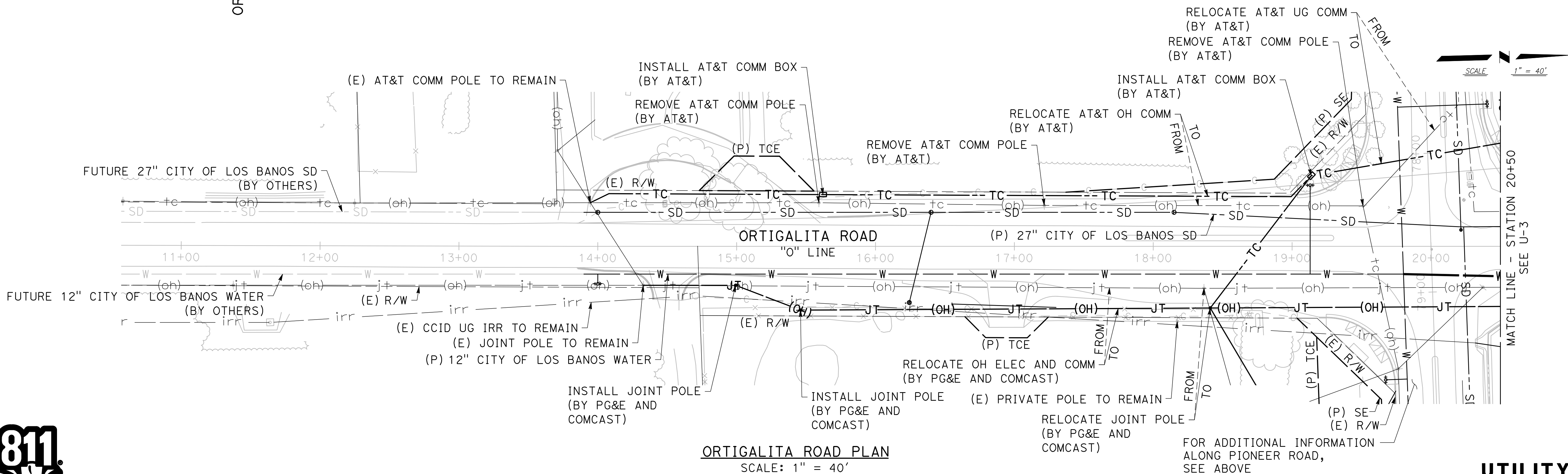
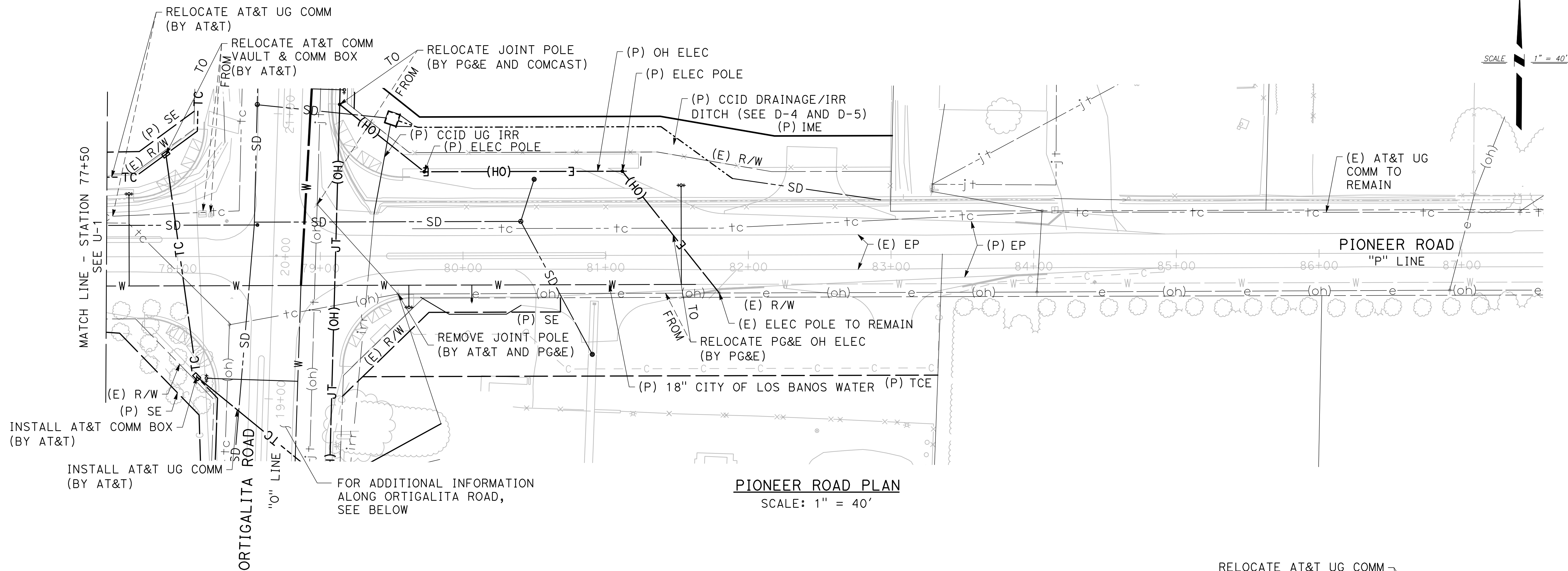


SHEET NUMBER

32

OF 50 SHEETS

Nov 12, 2024 - 7:44am J:\Los Banos - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR U-1-3.dwg				
	CALCULATED- DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



UTILITY PLAN

U-2

SCALE: 1" = 40'



100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA:

10-1M320_

DATE:

11/12/2024

RELATIVE BORDER SCALE
IS IN INCHES



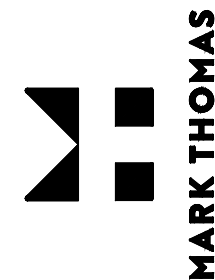
CITY OF LOS BANOS

DEPARTMENT OF PUBLIC WORKS
411 MADISON AVENUE
LOS BANOS, CALIFORNIA 93635
(209) 827-7056



IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**

LOS BANOS, CALIFORNIA

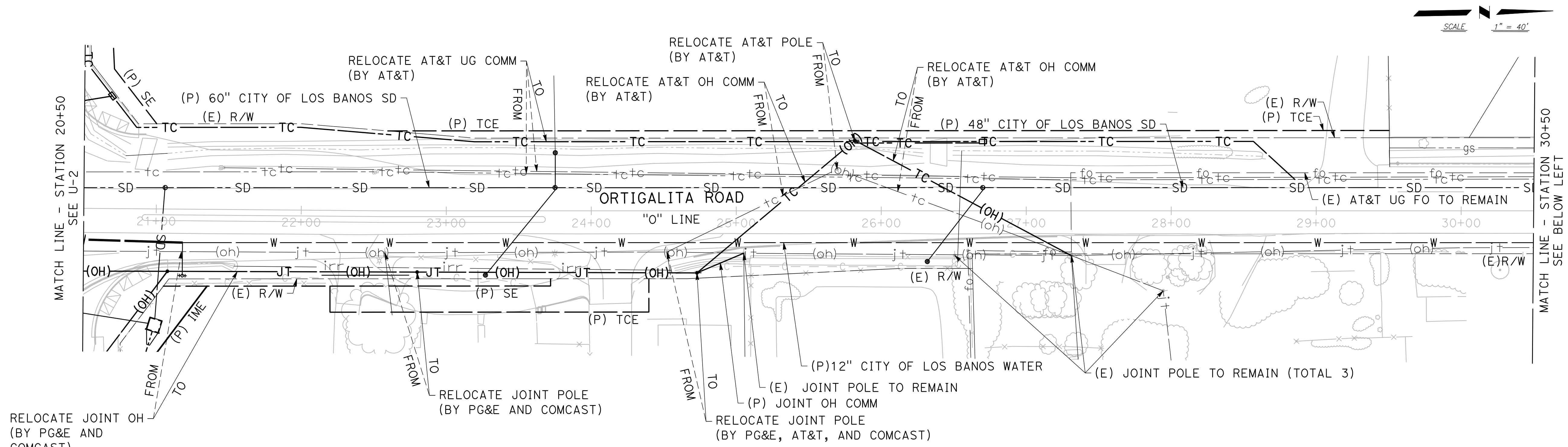


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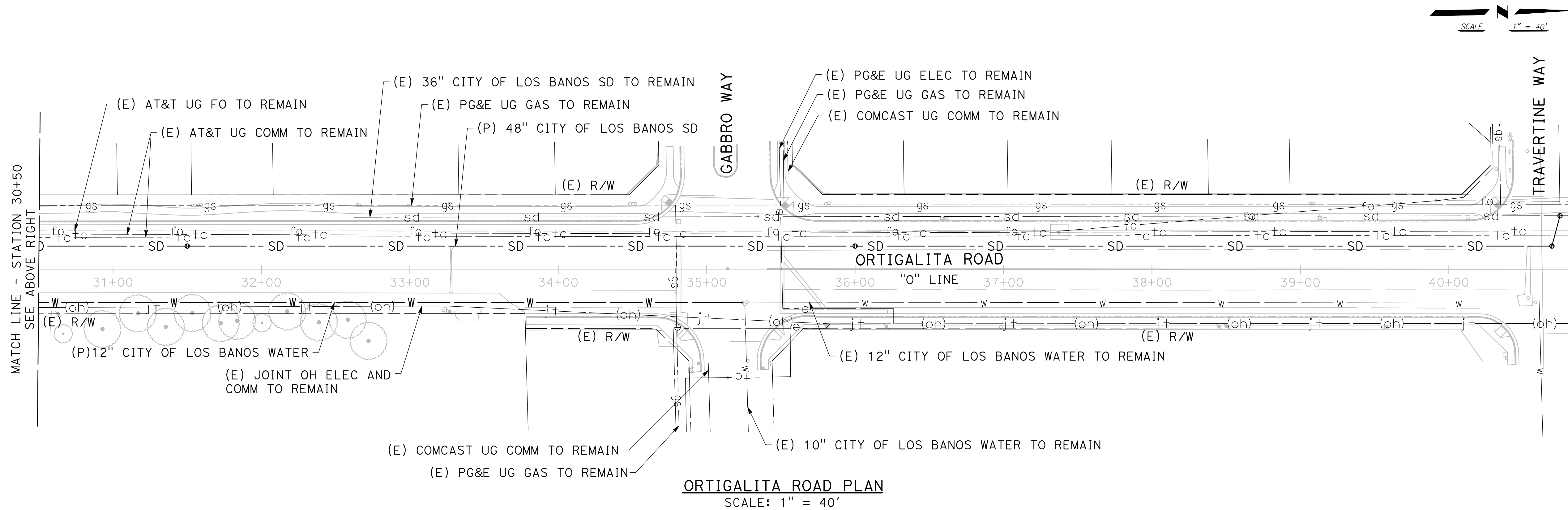
33

OF 50 SHEETS

Nov 12, 2024 - 7:44am J:\Los Esmos - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR U-1-3.dwg				
	CALCULATED- DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



ORTIGALITA ROAD PLAN
SCALE: 1" = 40'



ORTIGALITA ROAD PLAN
SCALE: 1" = 40'

UTILITY PLAN
SCALE: 1" = 40' **U-3**

SCALE: 1" = 40'

100% SUBMITTAL

PROJECT NUMBER: FN-20102

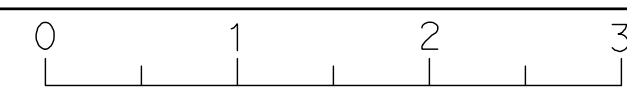
PROJECT EA:

10-1M320_

DATE:

11/12/2024

RELATIVE BORDER SCALE
IS IN INCHES



SHEET NUMBER

34

OF 50 SHEETS



CITY OF LOS BANOS

DEPARTMENT OF PUBLIC WORKS
411 MADISON AVENUE
LOS BANOS, CALIFORNIA 93635
(209) 827-7056



IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**

LOS BANOS, CALIFORNIA



MARK THOMAS

SHEET NUMBER

34

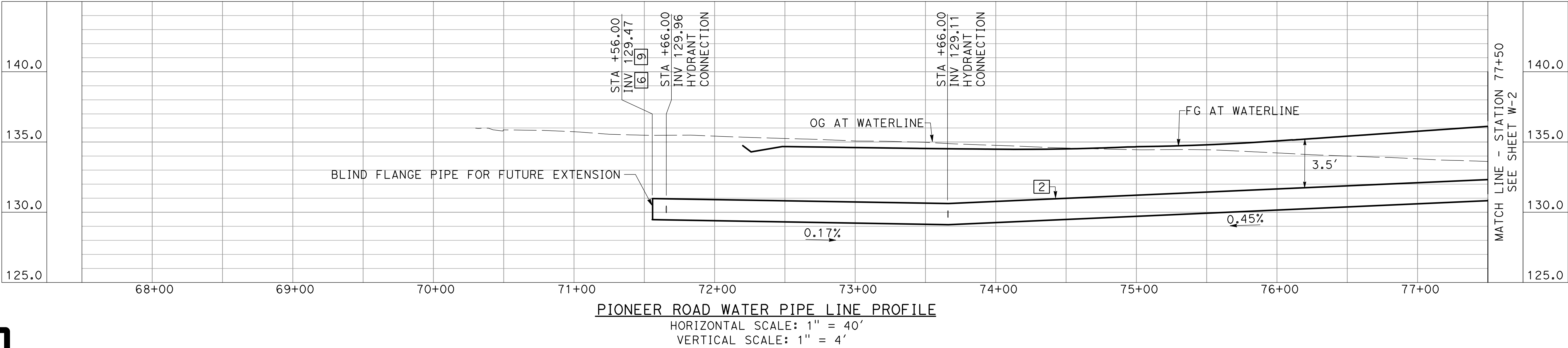
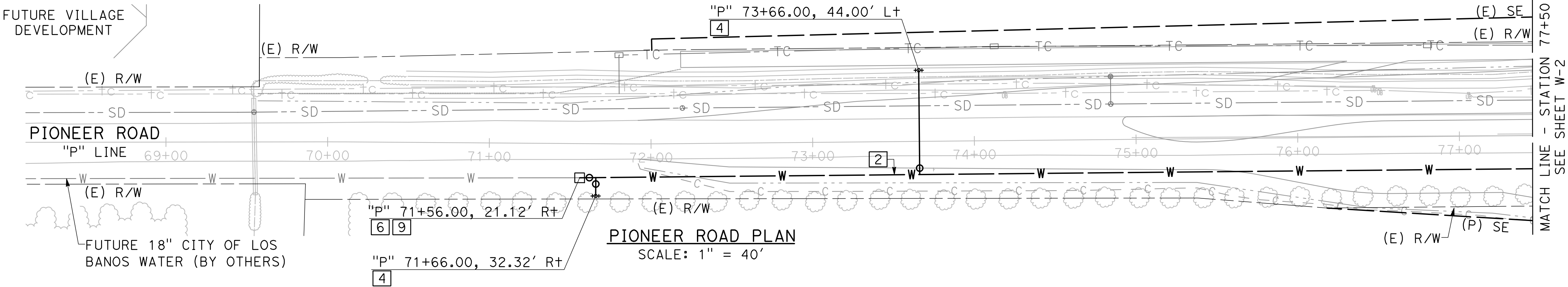
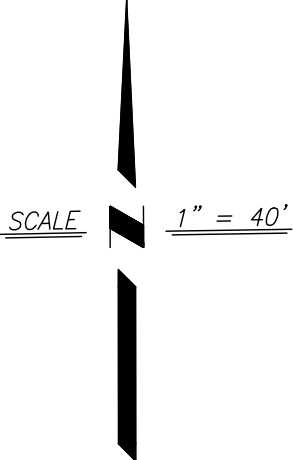
OF 50 SHEETS

REVISED BY		DATE	REVISED		
CALCULATED-DESIGNED BY		CHECKED BY			
Nov. 12, 2024 - 7:46am J:\Los Banos - FN-20102 Pioneer Rd Widening - Phase 2\OOD_2018\Sheets\ORTIGALITA PR OR_W-1-5.dwg					

- NOTES (W-1 TO W-5):**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES 48 HOURS PRIOR TO WORKING AROUND ANY OF THEIR UNDERGROUND UTILITIES FOR VERIFICATION AT THE SITE OF ANY POSSIBLE CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
 2. THE TYPES, LOCATIONS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. THE CITY OF LOS BANOS AND ITS CONSULTANT, MARK THOMAS & COMPANY INC., CAN NOT ASSUME THE RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UTILITIES NOR THE EXISTENCE OF OTHER BURIED OBJECTS OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS.
 3. THE CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS PRIOR TO INSTALLATION.
 4. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
 5. FOR IRRIGATION, SWALE, AND DRAINAGE INFORMATION, SEE DRAINAGE PLAN SHEETS.
 6. OVERHEAD UTILITIES NOT SHOWN FOR CLARITY PURPOSES.
 7. TRENCHING AND BACKFILL SHALL CONFORM TO CITY OF LOS BANOS STANDARD DRAWINGS BF-1, BF-2, AND BF-3.

- LEGEND (W-1 TO W-5):**
- | | |
|-----------|---|
| ----- | (E) R/W |
| ----- | (P) R/W |
| ----- | (P) SE |
| ----- | (P) TCE |
| ----- | (P) IME |
| ----- | (E) PROPERTY LINE |
| ---+c--- | (E) AT&T UG COMM |
| ---fo--- | (E) AT&T UG FIBER |
| ---gs--- | (E) PG&E GAS |
| ---irr--- | (E) CCID UG Irr |
| ----- | (E) CCID IRR DITCH |
| ---sd--- | (E) CITY OF LOS BANOS SD |
| ---jt--- | (E) JOINT COMM/ELEC UG |
| ----- | (E) CITY OF LOS BANOS WATER |
| ----- | (P) CCID Irr DITCH |
| ---SD--- | (P) CITY OF LOS BANOS SD |
| ---W--- | (P) CITY OF LOS BANOS WATER |
| ---SD--- | FUTURE CITY OF LOS BANOS SD |
| ---W--- | FUTURE CITY OF LOS BANOS WATER |
| ---JT--- | (P) JOINT COMM/ELEC UG |
| ⊙ | (P) DRAINAGE INLET (SEE DRAINAGE SHEETS) |
| ⊕ | (P) MANHOLE (SEE DRAINAGE SHEETS) |
| ⊕+ | (P) HYDRANT (SEE WATER SHEETS) |
| ○ | (P) WATER VALVE PER CITY OF LOS BANOS S+d W-3 |
| █ | (P) 1.20' HMA (TYPE A) - EXISTING PAVEMENT REPLACEMENT FOR WATER TRENCH |

- CONSTRUCTION NOTES (W-1 TO W-5, WD-1):**
1. INSTALL 12" C-900 DR-14 PVC PIPE
 2. INSTALL 18" C-900 DR-14 PVC PIPE
 3. INSTALL 12" DUCTILE IRON FLANGE COUPLING
 4. INSTALL FIRE HYDRANT PER CITY OF LOS BANOS S+d W-2
 5. INSTALL 2" WATER SERVICE PER CITY OF LOS BANOS S+d W-1
 6. INSTALL 18" DUCTILE IRON BLIND FLANGE
 7. INSTALL 18"x12" DUCTILE IRON MECHANICAL JOINT CROSS
 8. INSTALL 12" DUCTILE IRON BLIND FLANGE
 9. INSTALL THRUST BLOCK PER MERCED COUNTY S+d SU-14
 10. INSTALL 12" DUCTILE IRON PIPE 45° ELBOW
 11. INSTALL 18" DUCTILE IRON PIPE 45° ELBOW



WATER MAIN PLAN AND PROFILE
SCALE: 1" = 40' **W-1**

100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA: 10-1M320_

DATE:

11/12/2024

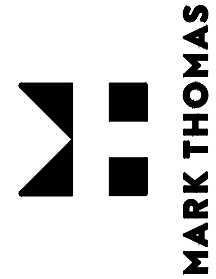
RELATIVE BORDER SCALE
IS IN INCHES



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(209) 827-7056

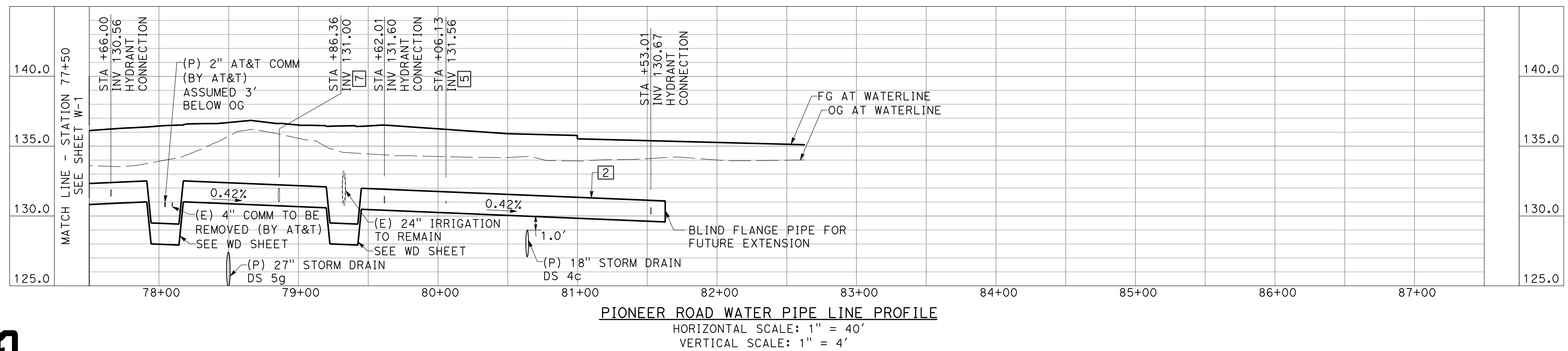
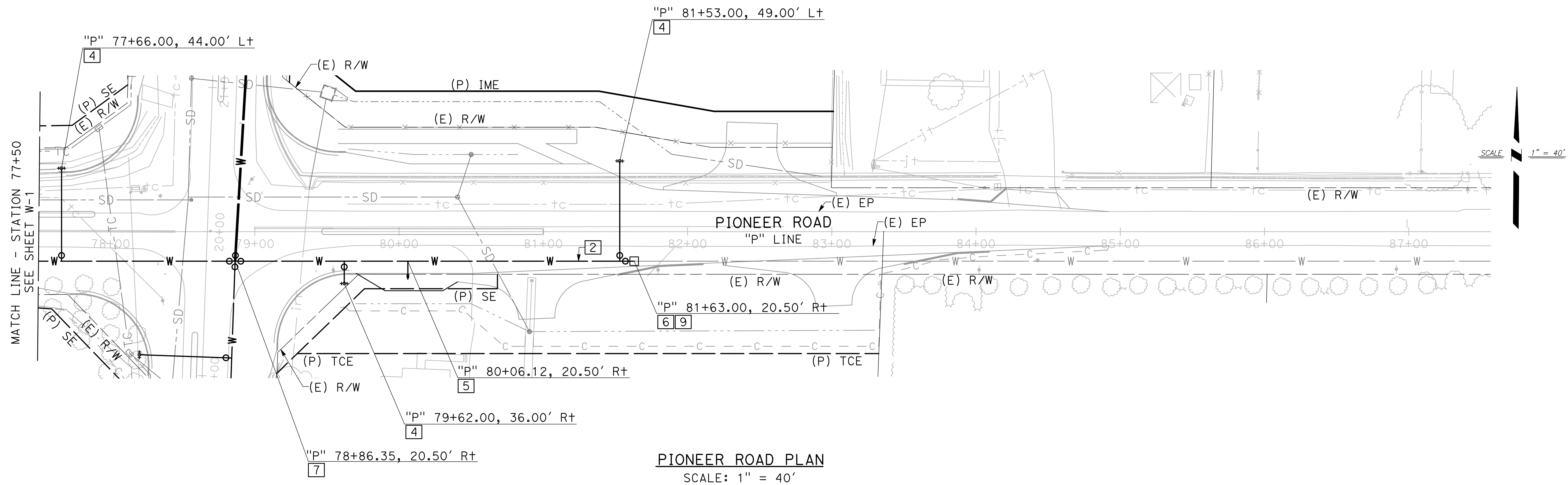


IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER
35
OF 50 SHEETS

Nov 12, 2024 - 7:45am J:\Los Barrios - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PA OR_W-1-5.dwg				
	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		

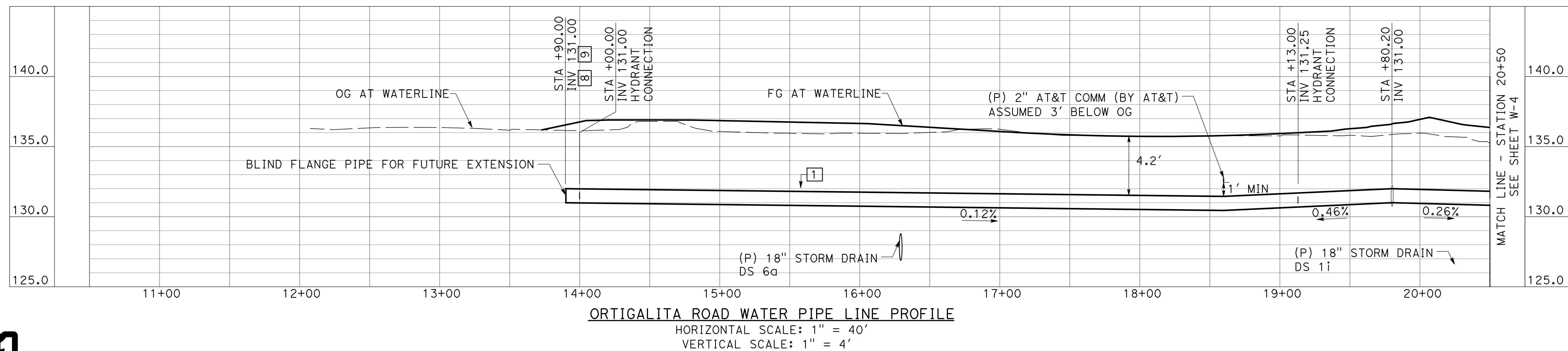
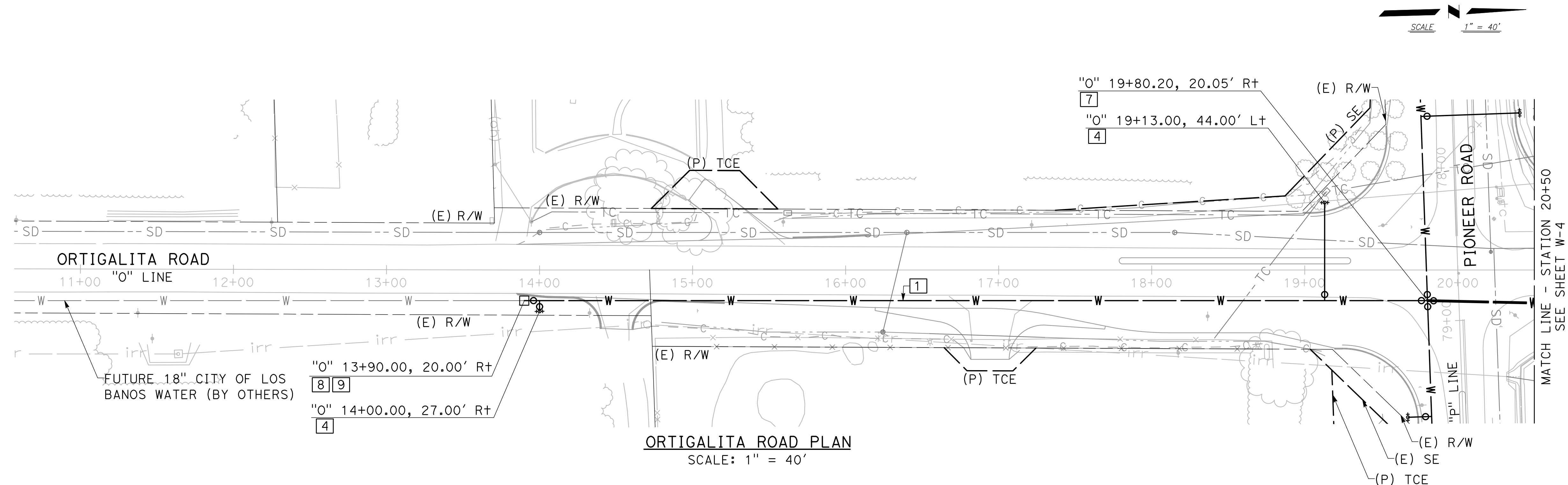


WATER MAIN PLAN AND PROFILE

SCALE: 1" = 40' **W-2**



Nov 12, 2024 - 7:47am J:\Los Banos - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR_W-1-5.dwg				
	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



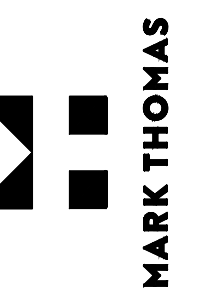
WATER MAIN PLAN AND PROFILE



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411 MADISON AVENUE
LOS BANOS, CALIFORNIA 93635
(209) 827-7056

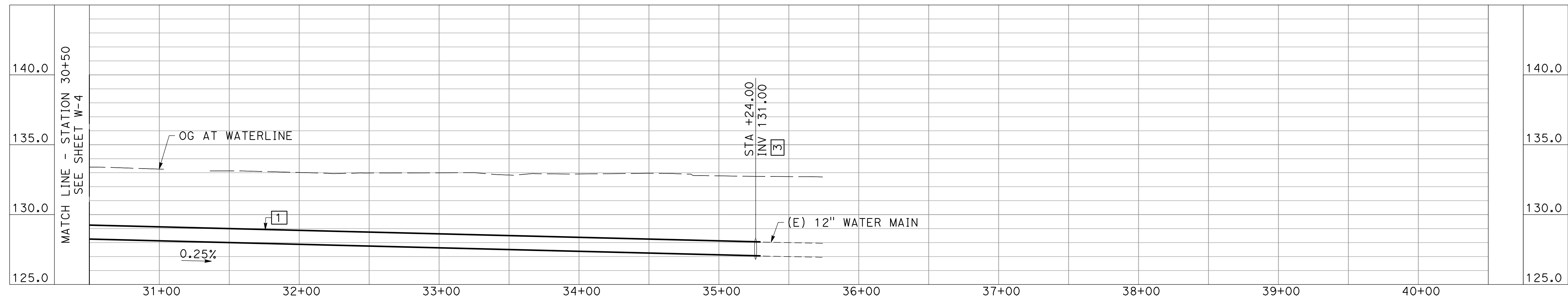
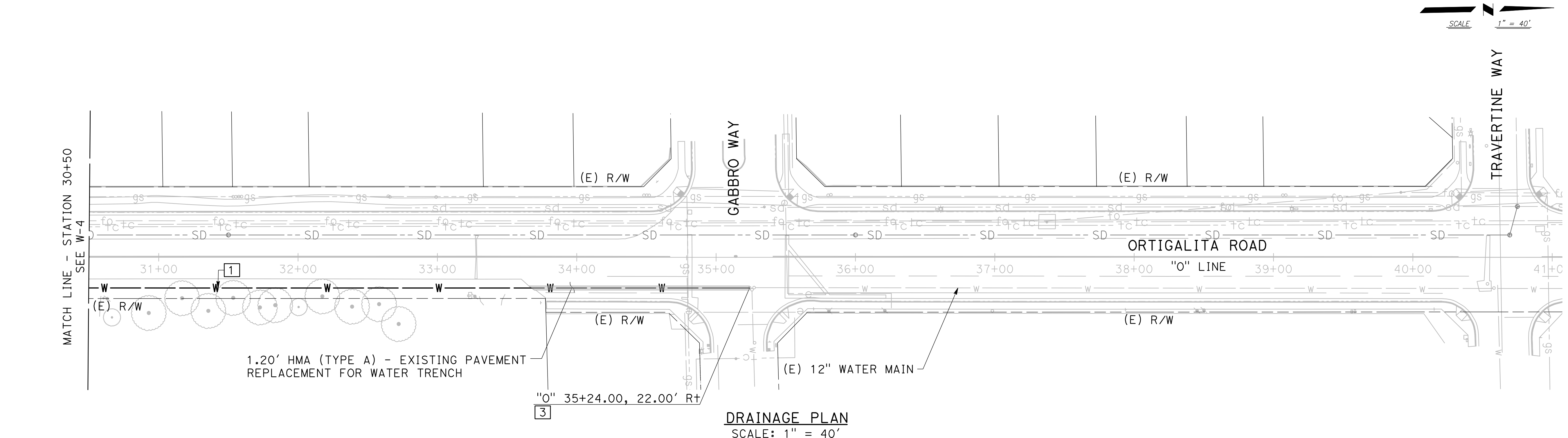


IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



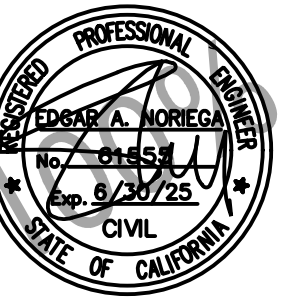
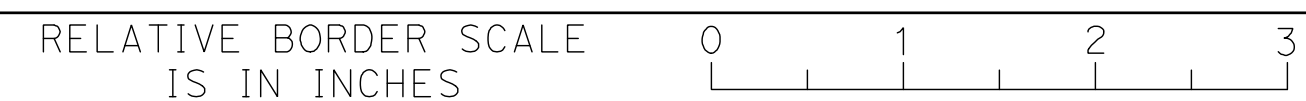
SHEET NUMBER
37
OF 50 SHEETS

Nov 12, 2024 - 7:47am J:\Los Banos - FH-2012 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR_W-1-5.dwg				
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	CHECKED BY	DATE REVISED		



ORTIGALITA ROAD WATER PIPE LINE PROFILE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

WATER MAIN PLAN AND PROFILE



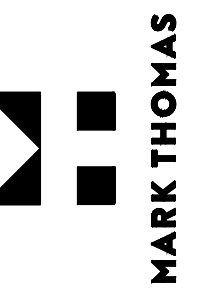
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(209) 827-7056



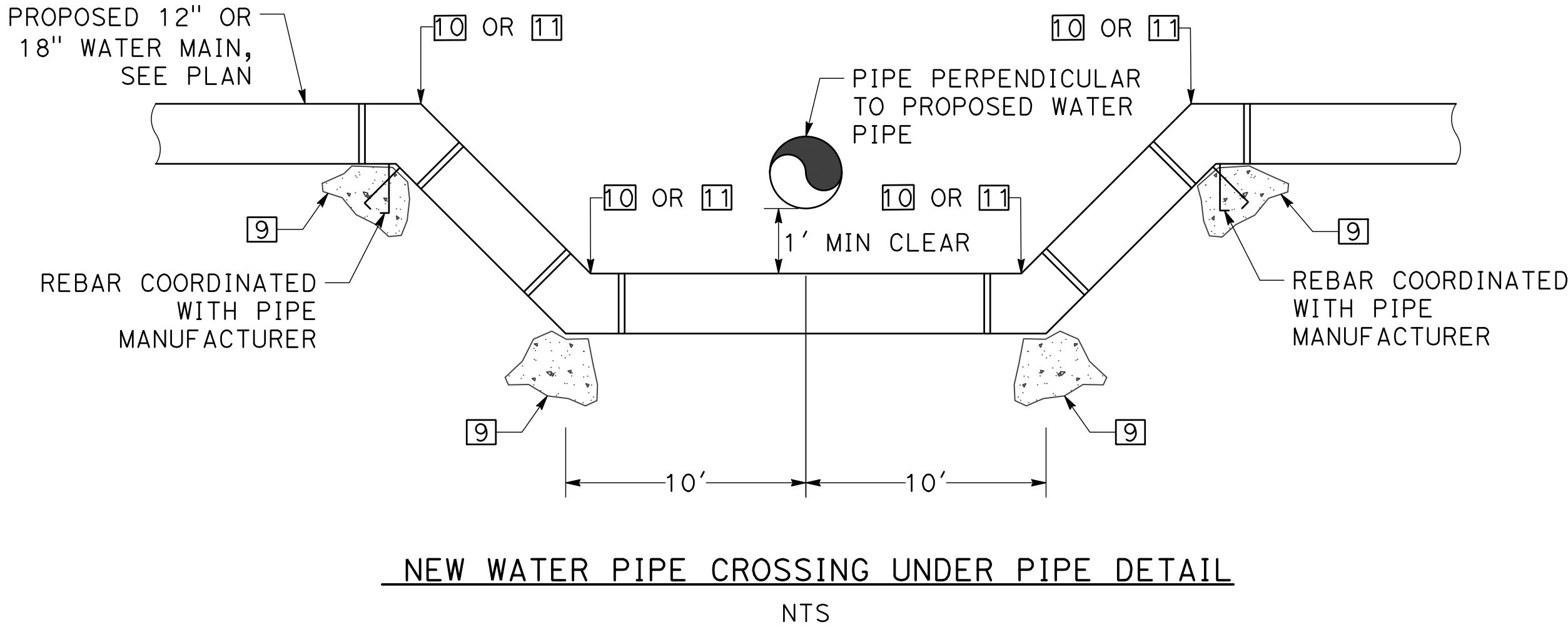
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**

LOS BANOS, CALIFORNIA



SHEET NUMBER
39
OF 50 SHEETS

PIPE CROSSING LOCATION	9	10	11
	THRUST BLOCKS EA	12" DIP 45° ELBOW EA	18" DIP 45° ELBOW EA
"P" 78+04.48, 20.50' R+	4		4
"P" 79+32.93, 20.50' R+	4		4
"O" 21+03.27, 22.75' R+	4	4	
"O" 27+31.10, 21.96' R+	4	4	
TOTAL	16	8	8



WATER DETAIL
WD-1

REVISED BY

DATE REVISED

CALCULATED-DESIGNED BY

CHECKED BY

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. ALL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

2. ALL TRAFFIC CONTROL SHALL CONFORM WITH THE MOST RECENT CALTRANS STANDARD PLANS AND THE CALIFORNIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

3. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED TWO WEEKS PRIOR TO CONSTRUCTION.

4. CONTRACTOR TO PROVIDE REASONABLE MEANS FOR PROPERTY OWNERS THAT ARE ADJACENT CONSTRUCTION, TO ACCESS PROPERTIES AT ALL TIMES.

5. CONTRACTOR TO COORDINATE ANY DRIVEWAY CLOSURES WITH PROPERTY OWNERS BEFORE REMOVING ACCESS.

6. DURING DETOUR PHASES, THE CHANGEABLE MESSAGE SIGN IDENTIFIED SHALL BE MODIFIED AS SHOWN ON THE DE SHEETS. WHEN THE DETOURS ARE NOT IN PLACE, CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AS SHOWN ON THIS SHEET.

LEGEND:

CONSTRUCTION AREA SIGN - SINGLE POST

CHANGEABLE MESSAGE SIGN

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	(N) EACH
A	W20-1	36"x36"	ROAD WORK AHEAD	4
B	W3-5	36"x36"	REDUCED SPEED LIMIT AHEAD (40)	2
C	G20-5aP R2-1	24"x18" 24"x30"	WORK ZONE SPEED LIMIT 40	2
D	R2-12	24"x36"	END WORK ZONE SPEED LIMIT	4
E	W3-5	36"x36"	REDUCED SPEED LIMIT AHEAD (35)	2
F	G20-5aP R2-1	24"x18" 24"x30"	WORK ZONE SPEED LIMIT 35	2

811

CALL BEFORE YOU DIG

SEE NOTE 6

35 ZONE AHEAD

WILL BE ENFORCED

CARDOZA ROAD

SEE NOTE 6

40 ZONE AHEAD

WILL BE ENFORCED

SEE NOTE 6

40 ZONE AHEAD

WILL BE ENFORCED

SEE NOTE 6

35 ZONE AHEAD

WILL BE ENFORCED

ORTIGALITA ROAD

SCALE

1" = 400'

CITY OF LOS BANOS

DEPARTMENT OF PUBLIC WORKS

411 MADISON AVENUE

LOS BANOS, CALIFORNIA 93635

(209) 827-7056

IMPROVEMENT PLANS FOR:

ORTIGALITA ROAD AND PIONEER ROAD

INTERSECTION PROJECT

LOS BANOS, CALIFORNIA

MARK THOMAS

CONSTRUCTION AREA SIGNS

SCALE: 1" = 400'

CS-1

100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA: 10-1M320_

DATE: 11/12/2024

RELATIVE BORDER SCALE

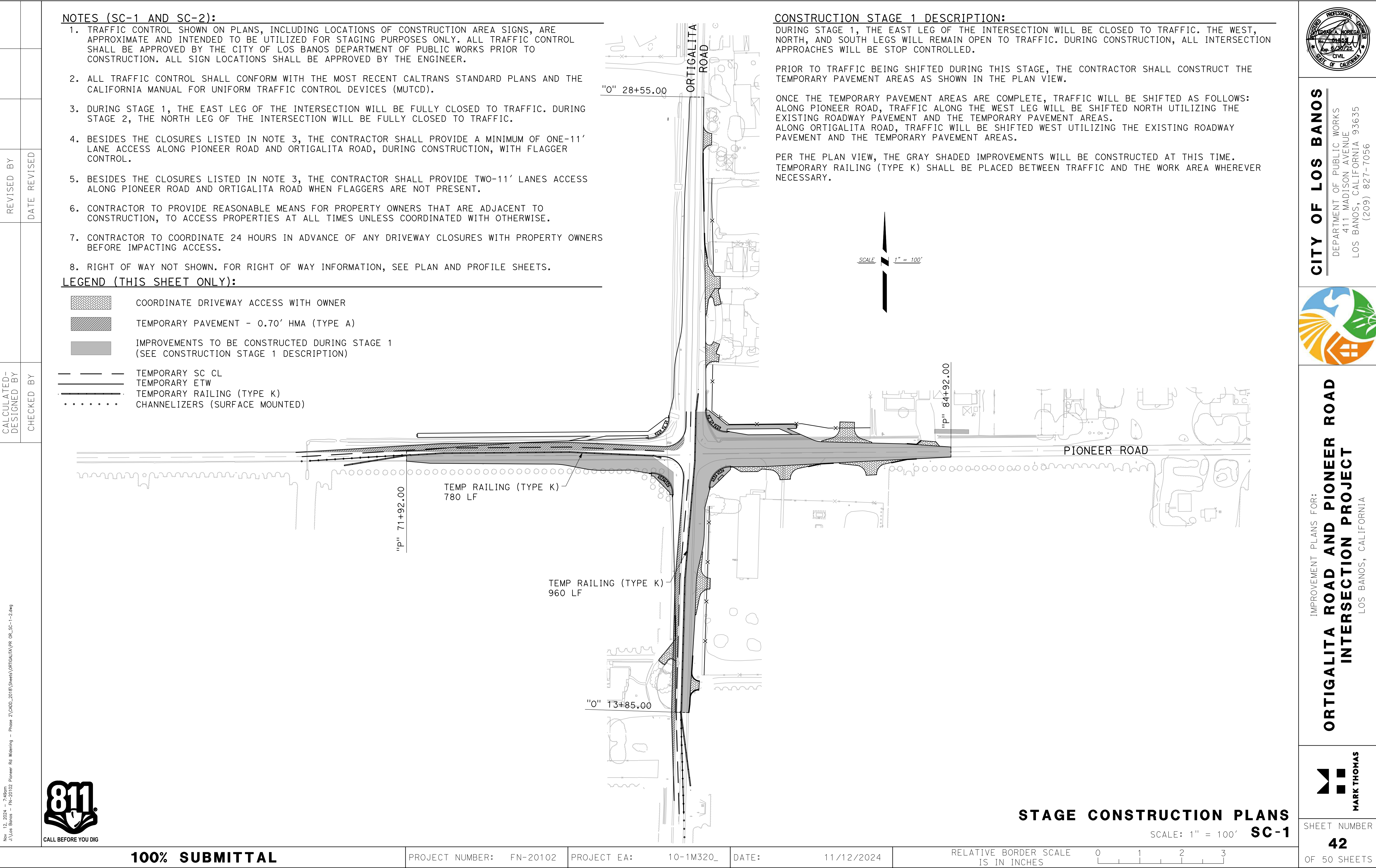
IS IN INCHES

0 1 2 3

SHEET NUMBER

41

OF 50 SHEETS



Nov 12, 2024 - 7:45am J:\Los Banos - FH-20102 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\OFFICIAL\TA\PR_01R_SC+-2.dwg				
	CALCULATED- DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		

LEGEND (THIS SHEET ONLY):

- | | |
|---|---|
|  | COORDINATE DRIVEWAY ACCESS WITH OWNER |
|  | IMPROVEMENTS COMPLETED DURING STAGE 1 |
|  | IMPROVEMENTS TO BE CONSTRUCTED DURING STAGE 2
(SEE CONSTRUCTION STAGE 2 DESCRIPTION) |
|  | FULL DEPTH HMA - 1.20' HMA (TYPE A) |
|  | TEMPORARY SC CL |
|  | TEMPORARY ETW |
|  | TEMPORARY RAILING (TYPE K) |
|  | CHANNELIZERS (SURFACE MOUNTED) |

CONSTRUCTION STAGE 2 DESCRIPTION:

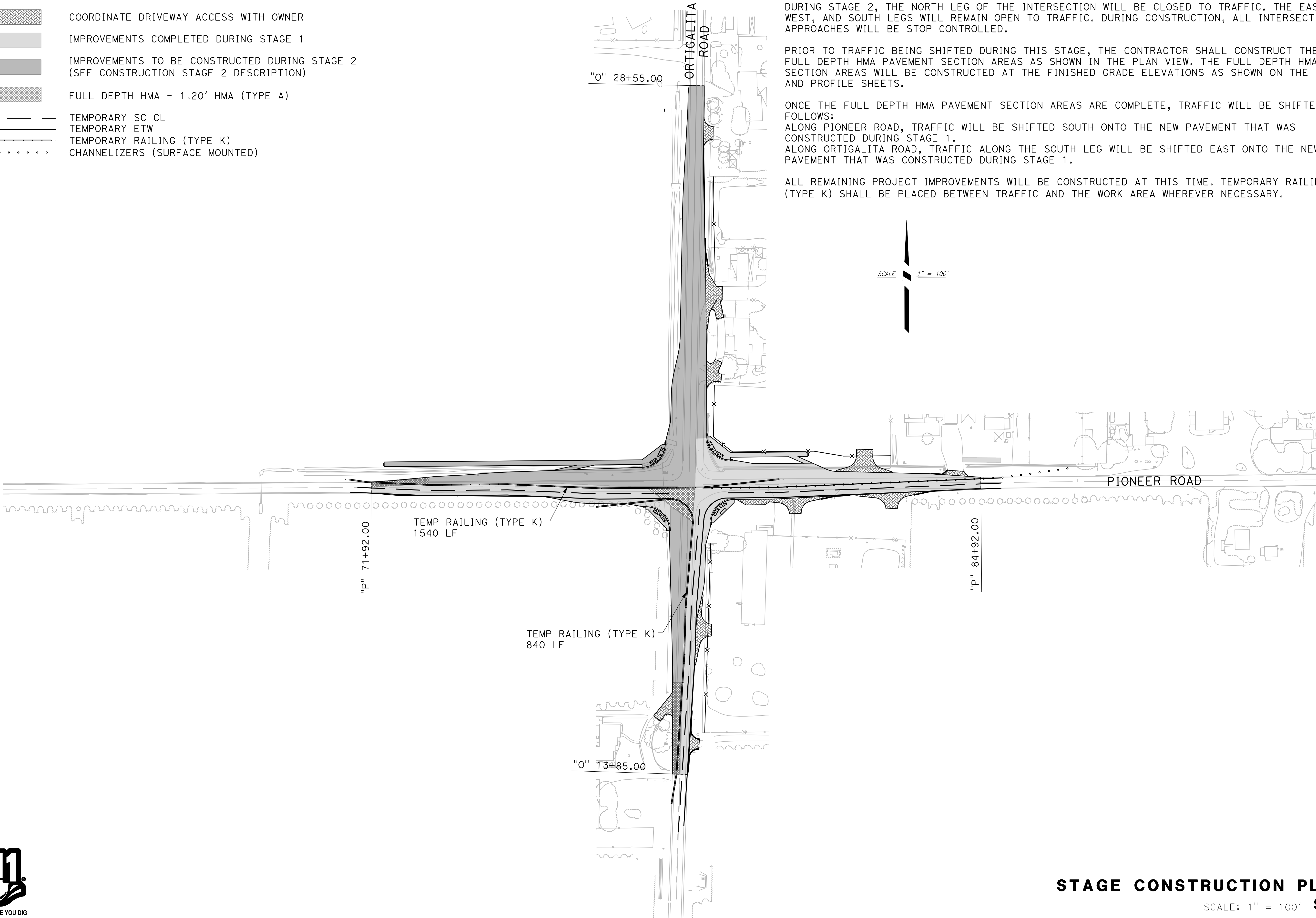
DURING STAGE 2, THE NORTH LEG OF THE INTERSECTION WILL BE CLOSED TO TRAFFIC. THE EAST, WEST, AND SOUTH LEGS WILL REMAIN OPEN TO TRAFFIC. DURING CONSTRUCTION, ALL INTERSECTION APPROACHES WILL BE STOP CONTROLLED.

PRIOR TO TRAFFIC BEING SHIFTED DURING THIS STAGE, THE CONTRACTOR SHALL CONSTRUCT THE FULL DEPTH HMA PAVEMENT SECTION AREAS AS SHOWN IN THE PLAN VIEW. THE FULL DEPTH HMA SECTION AREAS WILL BE CONSTRUCTED AT THE FINISHED GRADE ELEVATIONS AS SHOWN ON THE PLAN AND PROFILE SHEETS.

ONCE THE FULL DEPTH HMA PAVEMENT SECTION AREAS ARE COMPLETE, TRAFFIC WILL BE SHIFTED AS FOLLOWS:

- ALONG PIONEER ROAD, TRAFFIC WILL BE SHIFTED SOUTH ONTO THE NEW PAVEMENT THAT WAS CONSTRUCTED DURING STAGE 1.
- ALONG ORTIGALITA ROAD, TRAFFIC ALONG THE SOUTH LEG WILL BE SHIFTED EAST ONTO THE NEW PAVEMENT THAT WAS CONSTRUCTED DURING STAGE 1.

ALL REMAINING PROJECT IMPROVEMENTS WILL BE CONSTRUCTED AT THIS TIME. TEMPORARY RAILING (TYPE K) SHALL BE PLACED BETWEEN TRAFFIC AND THE WORK AREA WHEREVER NECESSARY.



STAGE CONSTRUCTION PLANS

SCALE: 1" = 100' **SC-2**



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IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



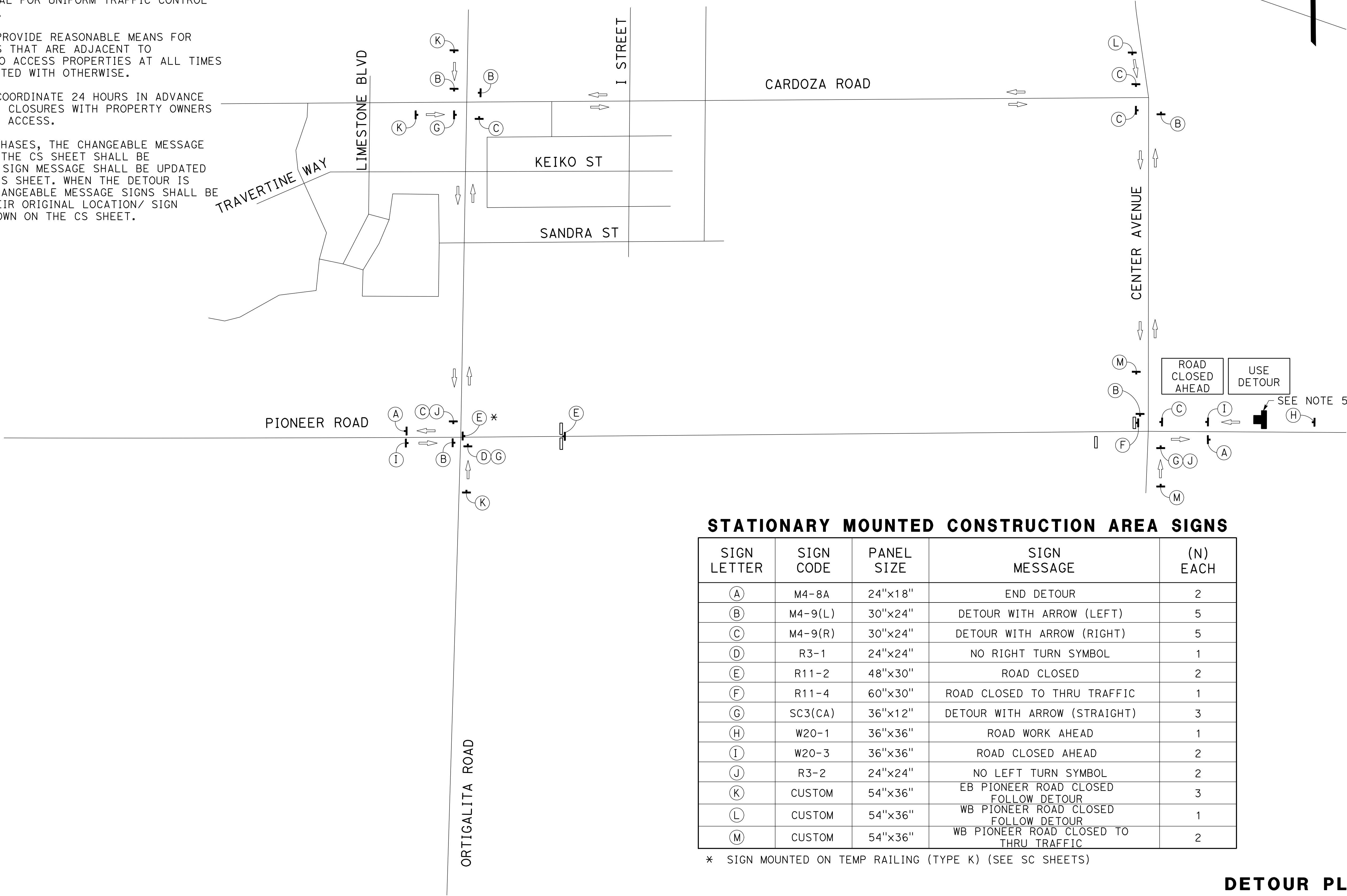
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	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		

NOTES (DE-1 AND DE-2):

1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. ALL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. ALL TRAFFIC CONTROL SHALL CONFORM WITH THE MOST RECENT CALTRANS STANDARD PLANS AND THE CALIFORNIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. CONTRACTOR TO PROVIDE REASONABLE MEANS FOR PROPERTY OWNERS THAT ARE ADJACENT TO CONSTRUCTION, TO ACCESS PROPERTIES AT ALL TIMES UNLESS COORDINATED WITH OTHERWISE.
4. CONTRACTOR TO COORDINATE 24 HOURS IN ADVANCE OF ANY DRIVEWAY CLOSURES WITH PROPERTY OWNERS BEFORE REMOVING ACCESS.
5. DURING DETOUR PHASES, THE CHANGEABLE MESSAGE SIGNS SHOWN ON THE CS SHEET SHALL BE RELOCATED/ THE SIGN MESSAGE SHALL BE UPDATED AS SHOWN ON THIS SHEET. WHEN THE DETOUR IS REMOVED, THE CHANGEABLE MESSAGE SIGNS SHALL BE RETURNED TO THEIR ORIGINAL LOCATION/ SIGN MESSAGES AS SHOWN ON THE CS SHEET.

LEGEND (DE-1 AND DE-2):

- | | |
|---|--------------------------------------|
|  | CONSTRUCTION AREA SIGN |
|  | TYPE III BARRICADE |
|  | CHANGEABLE MESSAGE SIGN (SEE NOTE 5) |



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS				
SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	(N) EACH
(A)	M4-8A	24"x18"	END DETOUR	2
(B)	M4-9(L)	30"x24"	DETOUR WITH ARROW (LEFT)	5
(C)	M4-9(R)	30"x24"	DETOUR WITH ARROW (RIGHT)	5
(D)	R3-1	24"x24"	NO RIGHT TURN SYMBOL	1
(E)	R11-2	48"x30"	ROAD CLOSED	2
(F)	R11-4	60"x30"	ROAD CLOSED TO THRU TRAFFIC	1
(G)	SC3(CA)	36"x12"	DETOUR WITH ARROW (STRAIGHT)	3
(H)	W20-1	36"x36"	ROAD WORK AHEAD	1
(I)	W20-3	36"x36"	ROAD CLOSED AHEAD	2
(J)	R3-2	24"x24"	NO LEFT TURN SYMBOL	2
(K)	CUSTOM	54"x36"	EB PIONEER ROAD CLOSED FOLLOW DETOUR	3
(L)	CUSTOM	54"x36"	WB PIONEER ROAD CLOSED FOLLOW DETOUR	1
(M)	CUSTOM	54"x36"	WB PIONEER ROAD CLOSED TO THRU TRAFFIC	2

* SIGN MOUNTED ON TEMP RAILING (TYPE K) (SEE SC SHEETS)

DETOUR PLAN

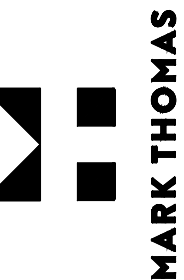
SCALE: 1" = 400' DE-1

SCALE: 1" = 400'

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DEPARTMENT OF PUBLIC WORKS
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(209) 827-7056



IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER
44
OF 50 SHEETS

100% SUBMITTAL

PROJECT NUMBER: FN-20102

PROJECT EA:

10-1M320_

DATE:

11/12/2024

RELATIVE BORDER SCALE
IS IN INCHES

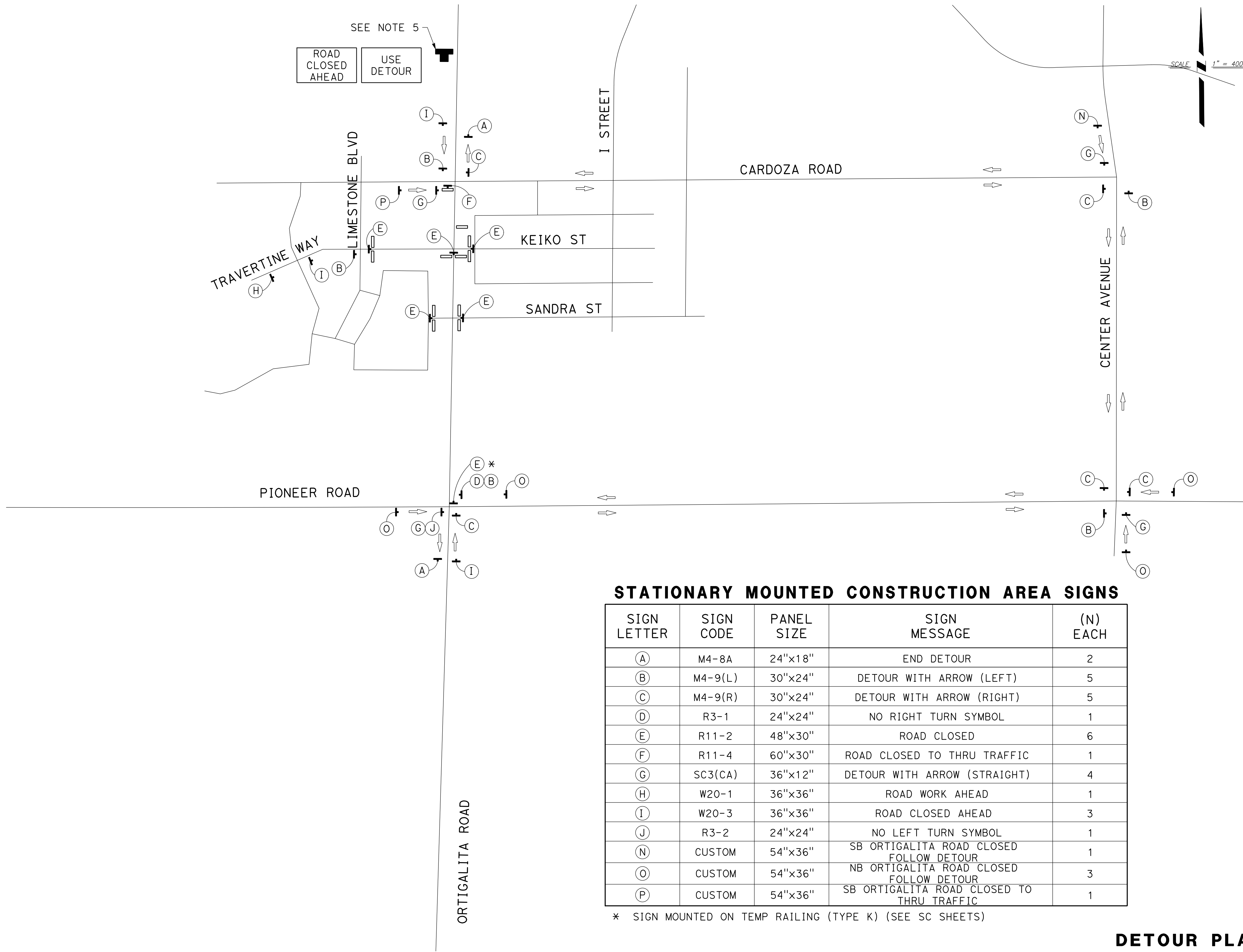


Nov 12, 2024 - 7:49am
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	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	(N) EACH
(A)	M4-8A	24"x18"	END DETOUR	2
(B)	M4-9(L)	30"x24"	DETOUR WITH ARROW (LEFT)	5
(C)	M4-9(R)	30"x24"	DETOUR WITH ARROW (RIGHT)	5
(D)	R3-1	24"x24"	NO RIGHT TURN SYMBOL	1
(E)	R11-2	48"x30"	ROAD CLOSED	6
(F)	R11-4	60"x30"	ROAD CLOSED TO THRU TRAFFIC	1
(G)	SC3(CA)	36"x12"	DETOUR WITH ARROW (STRAIGHT)	4
(H)	W20-1	36"x36"	ROAD WORK AHEAD	1
(I)	W20-3	36"x36"	ROAD CLOSED AHEAD	3
(J)	R3-2	24"x24"	NO LEFT TURN SYMBOL	1
(N)	CUSTOM	54"x36"	SB ORTIGALITA ROAD CLOSED FOLLOW DETOUR	1
(O)	CUSTOM	54"x36"	NB ORTIGALITA ROAD CLOSED FOLLOW DETOUR	3
(P)	CUSTOM	54"x36"	SB ORTIGALITA ROAD CLOSED TO THRU TRAFFIC	1

* SIGN MOUNTED ON TEMP RAILING (TYPE K) (SEE SC SHEETS)

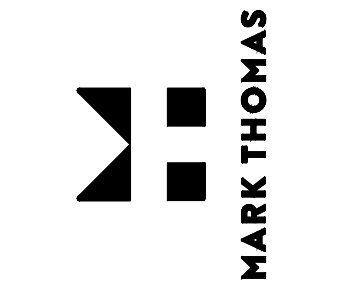
DETOUR PLAN

SCALE: 1" = 400' DE-2

CITY OF LOS BANOS
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IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER
45
OF 50 SHEETS

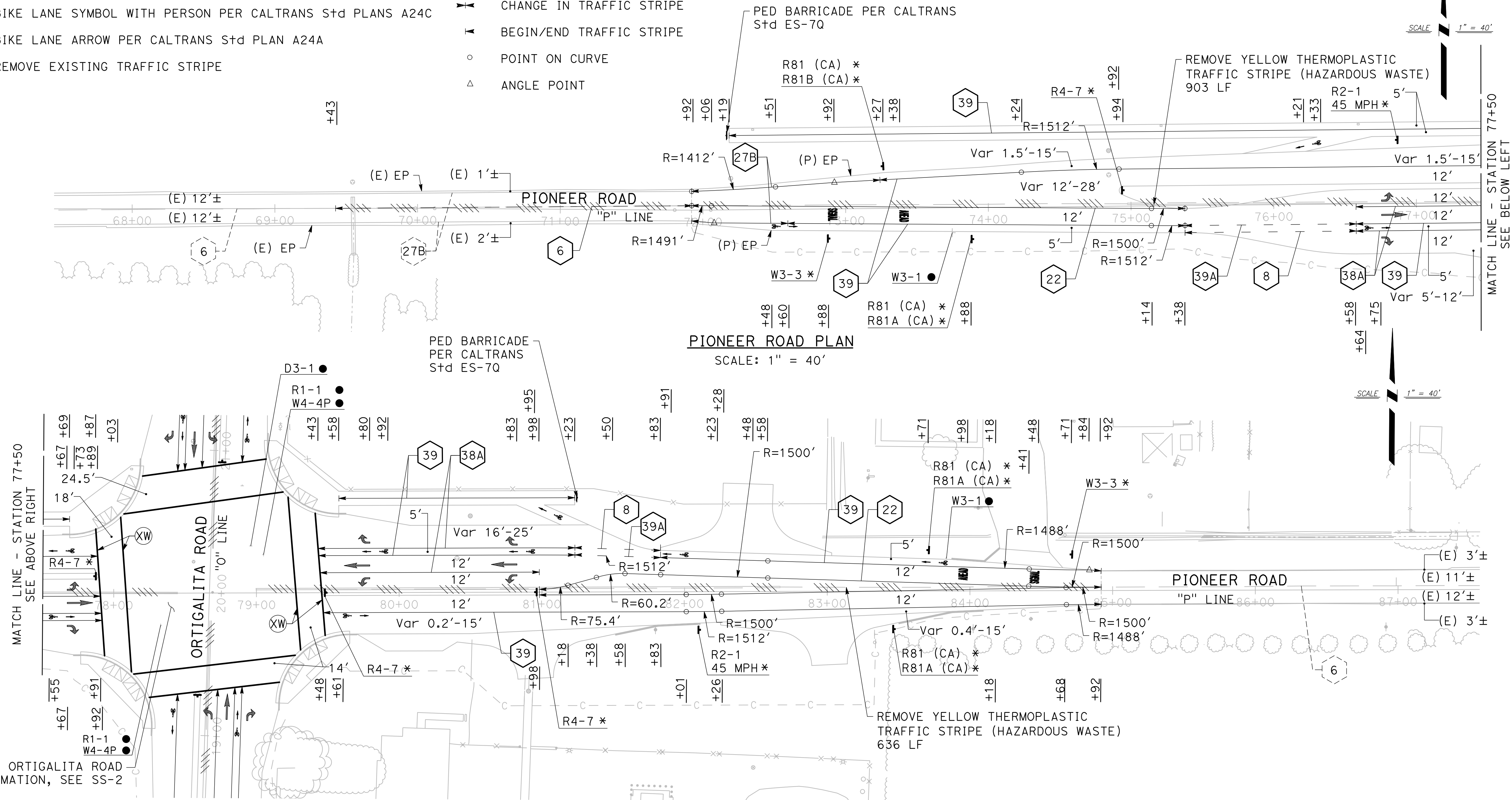
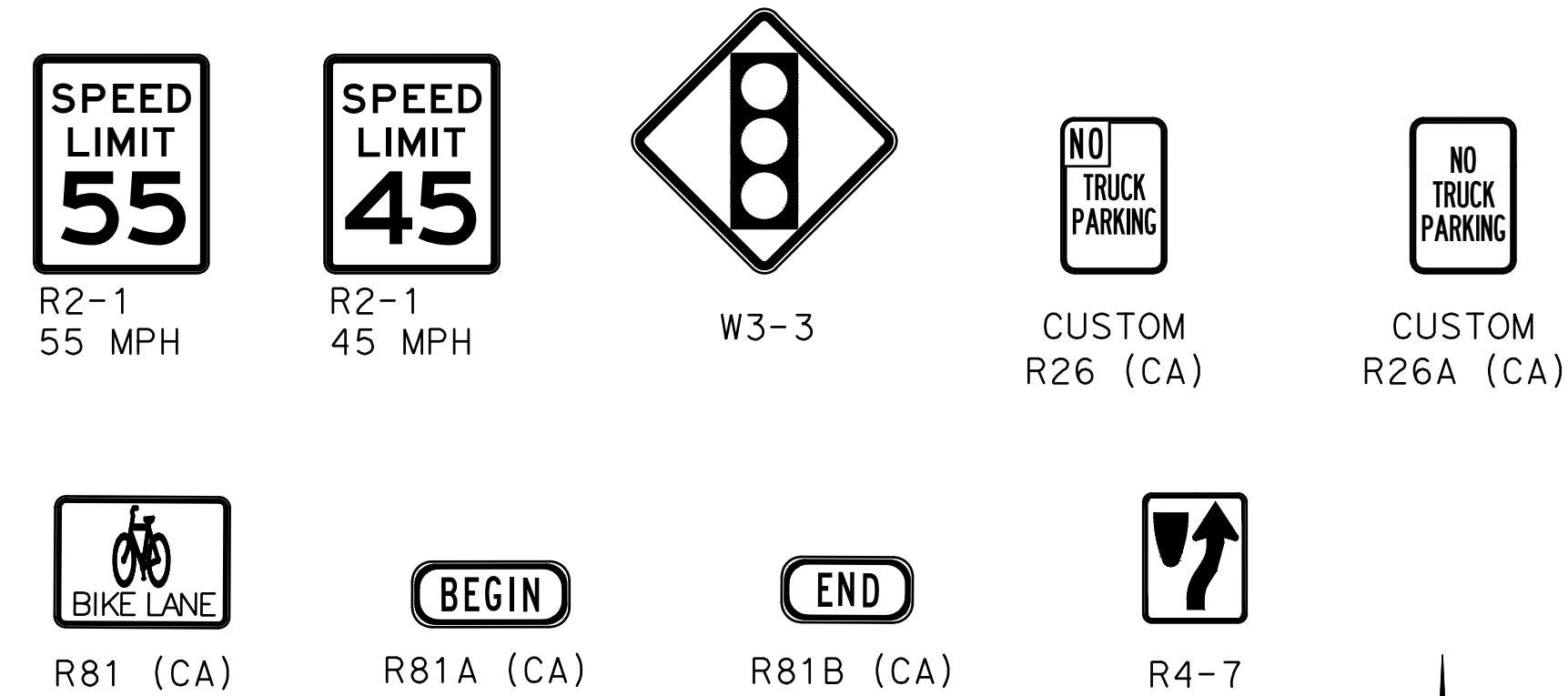
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	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		

LEGEND:

- | | |
|---|--|
|  | EXISTING DETAIL NUMBER PER CALTRANS S+d PLANS |
|  | PROPOSED DETAIL NUMBER PER CALTRANS S+d PLANS |
|  | "AHEAD" MARKING PER CALTRANS S+d PLAN A24D |
|  | "SIGNAL" MARKING PER CALTRANS S+d PLAN A24D |
|  | TYPE VII(R) ARROW PER CALTRANS S+d PLAN A24A |
|  | TYPE IV(L) ARROW PER CALTRANS S+d PLAN A24A |
|  | TYPE IV(R) ARROW PER CALTRANS S+d PLAN A24A |
|  | TYPE I 18'-0" ARROW PER CALTRANS S+d PLAN A24A |
|  | BIKE LANE SYMBOL WITH PERSON PER CALTRANS S+d PLANS A24C |
|  | BIKE LANE ARROW PER CALTRANS S+d PLAN A24A |
|  | REMOVE EXISTING TRAFFIC STRIPE |

- | | | |
|---|---|--|
|  | CROSSWALK-MARKINGS PER CALTRANS S+d PLAN A24F | |
|  | LIMIT LINES PER CALTRANS S+d PLAN A24G | |
|  | PEDESTRIAN BARRICADE PER CALTRANS S+d ES-7Q | |
|  | EXISTING SINGLE POST ROADSIDE SIGN | |
|  | PROPOSED SINGLE POST ROADSIDE SIGN | |
|  | EXISTING SIGN TO BE RELOCATED | |
|  | EXISTING SIGN TO REMAIN | |
|  | EXISTING SIGN TO BE REMOVED | |
|  | INSTALL ROADSIDE SIGN | |
|  | CHANGE IN TRAFFIC STRIPE | |
|  | BEGIN/END TRAFFIC STRIPE | |
|  | POINT ON CURVE | |
|  | ANGLE POINT | |
- PED BARRICADE
S+d ES-7Q
- R81 (CA)
R81B (CA)

SIGN LEGEND:



SIGNAGE AND STRIPING

SCALE: 1" = 40' **SS-1**

100% SUBMITTAL

PROJECT NUMBER: FN-20102

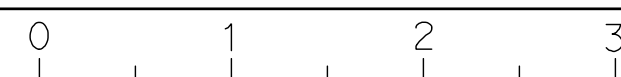
PROJECT EA:

10-1M320_

DATE:

11/12/2024

RELATIVE BORDER SCALE
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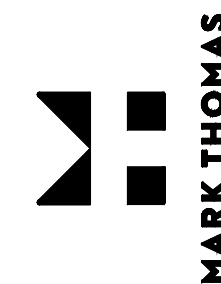
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(209) 827-7056



IMPROVEMENT PLANS FOR: ORTIGALITA ROAD AND PIONEER ROAD INTERSECTION PROJECT

IMPROVEMENT PLANS FOR:
**ROAD AND PAVEMENT
SECTION PROJECTS**
LOS BANOS, CALIFORNIA

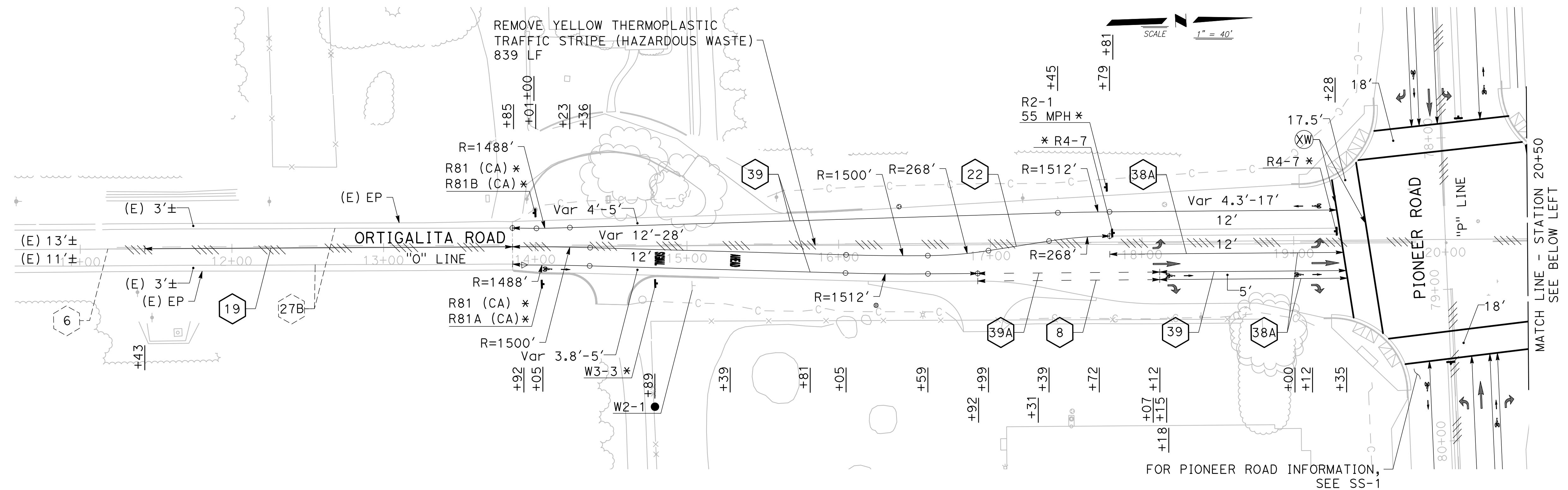


SHEET NUMBER

46

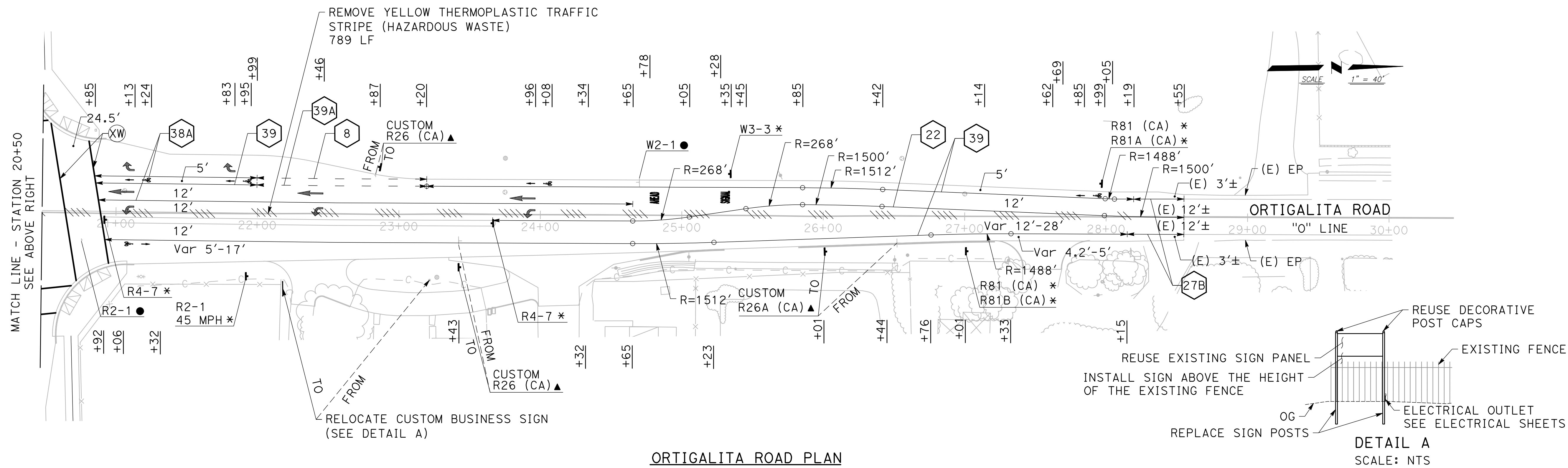
OF 50 SHEETS

Nov 12, 2024 - 2:51pm J:\Los Banos - FW-20102 Pioneer Rd Widening - Phase 2\CADD_2018\Sheets\ORIGINAL\PR OR_SS-1-2.dwg				
	CALCULATED-DESIGNED BY	REVISED BY		
	CHECKED BY	DATE REVISED		



MORTIGALITA ROAD PLAN

SCALE: 1" = 40'



ORTIGALITA ROAD PLAN

SCALE: 1" = 40'

SIGNAGE AND STRIPING

SCALE: 1" = 40' **SS-2**

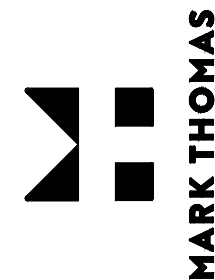


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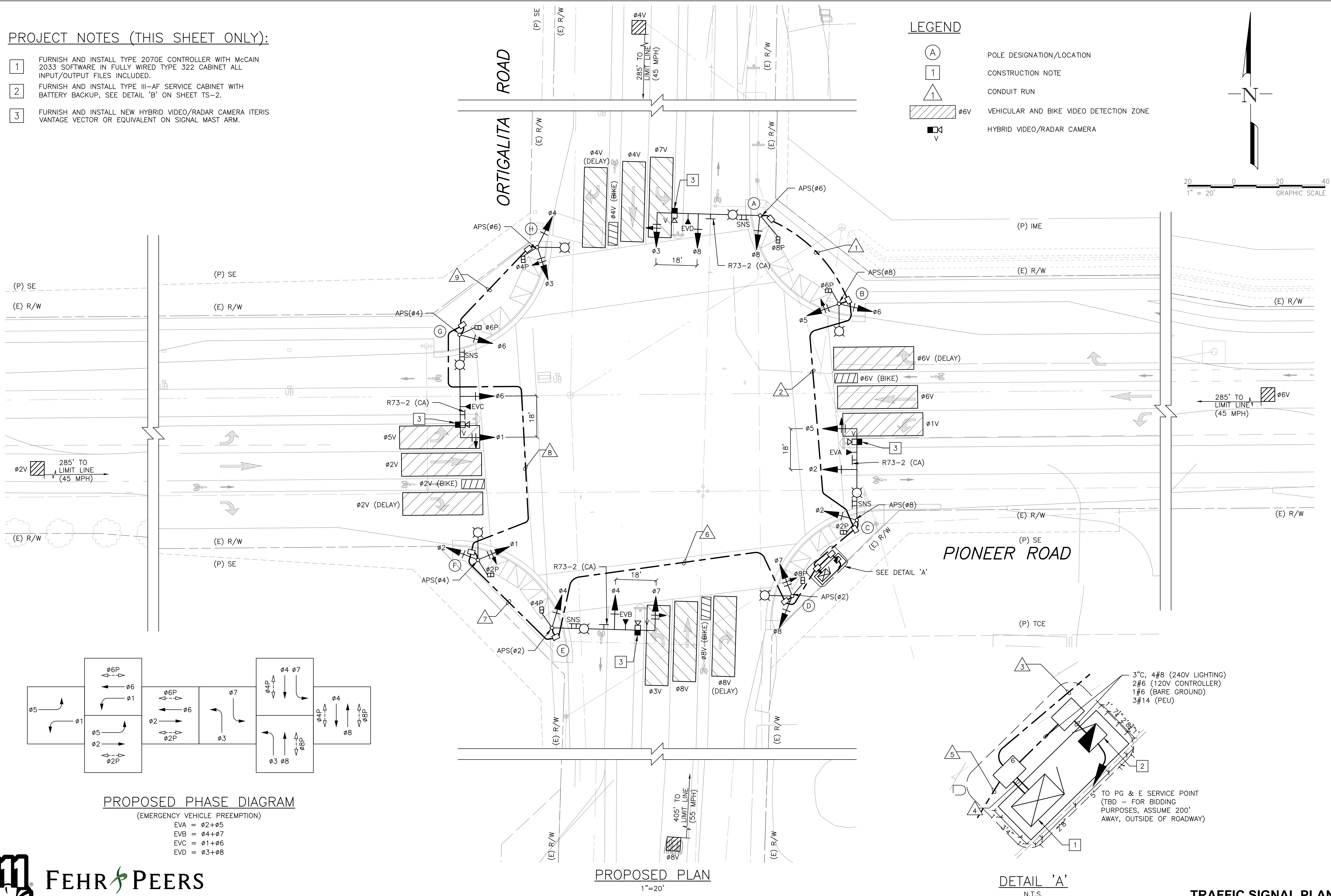
IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER
47
OF 50 SHEETS



1	FURNISH AND INSTALL TYPE 2070E CONTROLLER WITH McCAIN 2033 SOFTWARE IN FULLY WIRED TYPE 322 CABINET ALL INPUT/OUTPUT FILES INCLUDED.
2	FURNISH AND INSTALL TYPE III-AF SERVICE CABINET WITH BATTERY BACKUP, SEE DETAIL 'B' ON SHEET TS-2.
3	FURNISH AND INSTALL NEW HYBRID VIDEO/RADAR CAMERA ITERIS VANTAGE VECTOR OR EQUIVALENT ON SIGNAL MASTER ARMA.



Nov 07, 2024 - 10:17am
W:\Walnut Creek N Drive\PROJECTS\WC20-WC20-3693.01-Los Bonos_Pioneer_Road_Ortigalita_Signal\CAD\100.02_Light_Submittal\3693-TS_Sl.dwg



CALL BEFORE YOU DIG

FEHR & PEERS

100 Pringle Avenue Walnut Creek, CA 94596
Suite 600 (925) 930-7100

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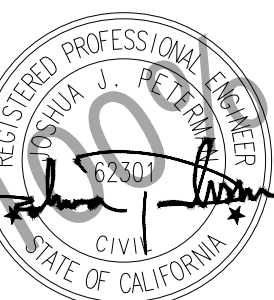
11/07/2024

RELATIVE BORDER SCALE
IS IN INCHES

A horizontal number line with arrows at both ends. It has major tick marks labeled 0, 1, 2, and 3. Between each major tick mark, there is a smaller tick mark, representing the midpoint (e.g., 0.5, 1.5, 2.5).

TRAFFIC SIGNAL PLAN

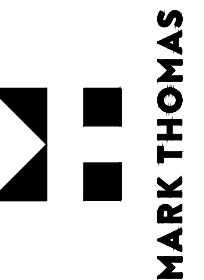
TS-1



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IMPROVEMENT PLANS FOR:
**ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT**
LOS BANOS, CALIFORNIA



SHEET NUMBER

48

OF **50** SHEETS

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Nov 07, 2024 -- 10:17am
W:\Walnut Creek N Drive\PROJECTS_WC20\WC20-3693.01_Los Banos_Pioneer_Road_Originals_Signal\CAD\100.02_Light_Submittal\3693-TS.dwg



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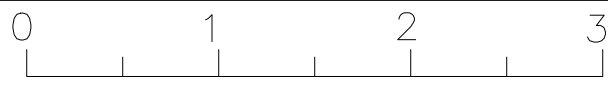
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PROJECT NUMBER: FN-20102

PROJECT EA: 10-1M320_

DATE: 11/07/2024

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CONDUCTOR AND POLE SCHEDULE
TS-2

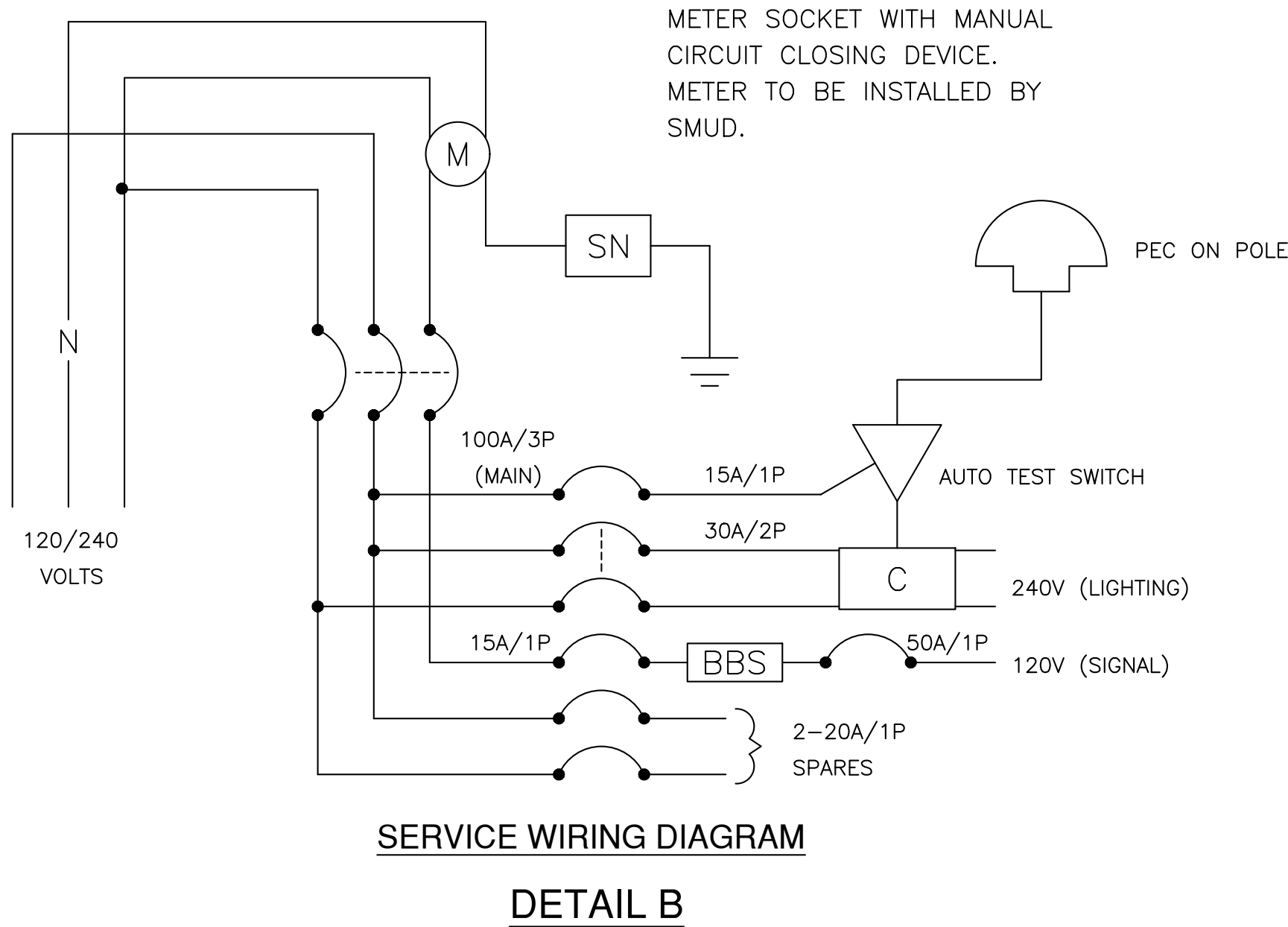
SHEET NUMBER
49
OF 50 SHEETS

AWG OR CABLE	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS								
		RUN NUMBERS								
		1	2	3	4	5	6	7	8	9
NO. 14	Ø1				3	3	3	3	3	
	Ø2			3	6	3	3	3		
	Ø3	3	3	3	6	3	3	3	3	3
	Ø4				3	3	3	3	3	3
	Ø5		3	3	3					
	Ø6		3	3	6	3	3	3	3	
	Ø7				3	3	3			
	Ø8	3	3	3	6	3				
	Ø2P			2	4	2	2	2		
	Ø4P				2	2	2	2	2	2
	Ø6P		2	2	4	2	2	2	2	
	Ø8P	2	2	2	4	2				
	APS (Ø2P)				2	2	2			
	APS (Ø4P)				2	2	2	2	2	
	APS (Ø6P)	2	2	2	4	2	2	2	2	2
	APS (Ø8P)		2	2	2					
	APS COMMON	1	1	1	2	1	1	1	1	1
	PHOTOELECTRIC UNIT (120 V)					3				
	SPARES									
	TOTAL NO. 14	11	21	26	62	39	31	26	21	11
NO. 8	LUMINAIRES (240 V)	2	2	2		2	2	2	2	2
	SIGNAL COMMON	1	1	1	2	1	1	1	1	1
	TOTAL NO. 8	3	3	3	2	3	3	3	3	3
NO. 6	SIGNAL (120V)				2					
VIDEO DETECTION COAX CABLE	Ø3+Ø8 (NB)	1	1	1	1					
	Ø2+Ø5 (EB)			1	1					
	Ø4+Ø7 (SB)				1	1	1			
	Ø1+Ø6 (WB)				1	1	1	1	1	
	TOTAL DETECTOR CABLES	1	1	2	4	2	2	1	1	
EMERGENCY VEHICLE PREEMPTION CABLE (EVP)	EVA			1	1					
	EVB				1	1	1			
	EVC				1	1	1	1	1	
	EVD	1	1	1	1					
	TOTAL EVP CABLES	1	1	2	4	2	2	1	1	
	CONDUIT SIZE	3	3	3	2-3	3	3	3	3	3
	PERCENT FILL	8%	10%	14%	16%	18%	15%	12%	10%	6%

POLE AND EQUIPMENT SCHEDULE											
	STANDARD			VEH SIG MTG		PED SIGNAL MTG	PPB		LED LUM WATTAGE	SPECIAL REQUIREMENTS	
	TYPE	SIG MA	LUM ARM	MAST	POLE		ø	ARROW			
(A)	26-4-100	45'	12'	MAS MAS	SV-1-T	SP-1-T	6	←	180	INSTALL R73-2 (CA) ON MAST ARM PER CITY STANDARDS.	
(B)	15TS	-	15'	-	SV-2-TA	SP-1-T	8	→	180	-	
(C)	26-4-100	40'	12'	MAS MAS	SV-1-T	SP-1-T	8	←	180	INSTALL R73-2 (CA) ON MAST ARM PER CITY STANDARDS.	
(D)	15TS	-	15'	-	SV-2-TA	SP-1-T	2	→	180	-	
(E)	26-4-100	45'	12'	MAS MAS	SV-1-T	SP-1-T	2	←	180	INSTALL R73-2 (CA) ON MAST ARM PER CITY STANDARDS.	
(F)	15TS	-	15'	-	SV-2-TA	SP-1-T	4	→	180	-	
(G)	26-4-100	45'	12'	MAS MAS	SV-1-T	SP-1-T	4	←	180	INSTALL R73-2 (CA) ON MAST ARM PER CITY STANDARDS.	
(H)	15TS	-	15'	-	SV-2-TA	SP-1-T	6	→	180	-	

NOTES:

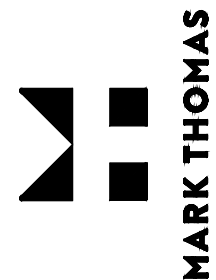
ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED.



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IMPROVEMENT PLANS FOR:
ORTIGALITA ROAD AND PIONEER ROAD
INTERSECTION PROJECT
LOS BANOS, CALIFORNIA



SHEET NUMBER
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LIGHTING MODIFICATION PLAN
SL-1

PROJECT NUMBER:	FN-20102	PROJECT EA:	10-1M320_	DATE:	11/07/2024
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RELATIVE BORDER SCALE
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MARK THOMAS

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