STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
PLANS FOR THE RECONSTRUCTION OF

GEER ROAD AND SANTA FE AVENUE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

PROJECT NO. CML-5938 (224)

STATE OF CALIFORNIA

INDEX OF SHEETS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
2015 STANDARD PLANS

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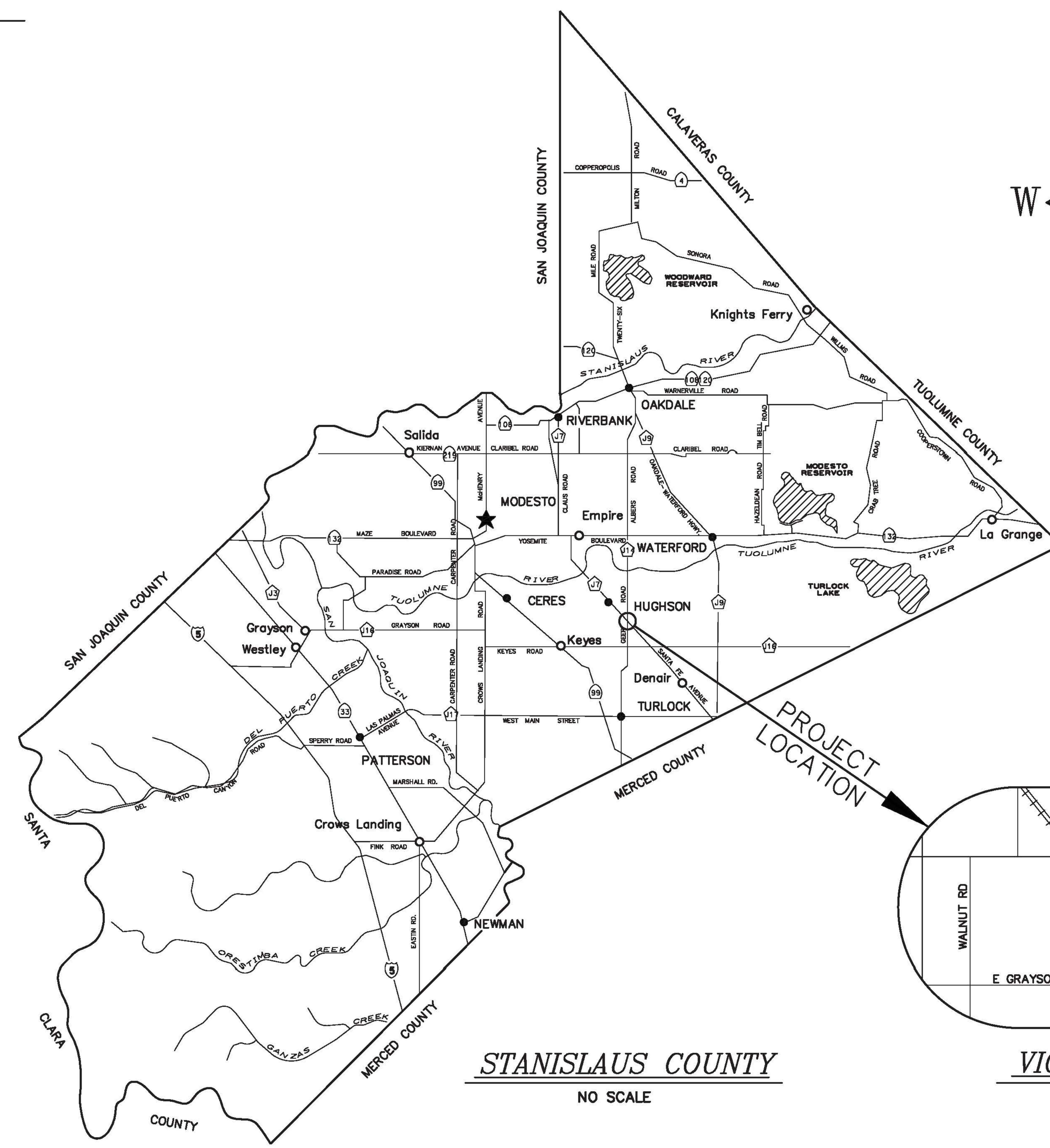
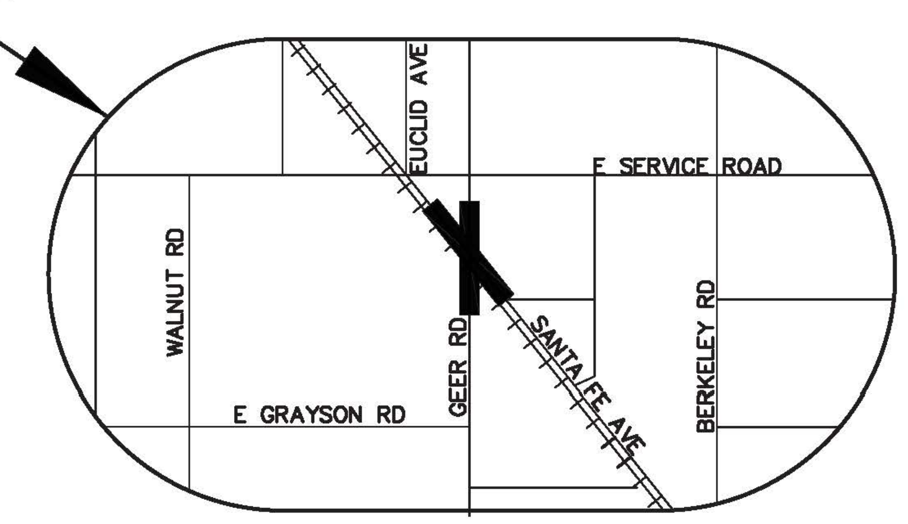


STANISLAUS COUNTY
NO SCALE



VICINITY MAP
NO SCALE

APPROVED BY STANISLAUS COUNTY:

CHRIS BRADY 11/27/17
DEPUTY DIRECTOR OF PUBLIC WORKS
STANISLAUS COUNTY
DATE

APPROVED BY TURLOCK IRRIGATION DISTRICT
FOR IRRIGATION FACILITIES ONLY:

CIVIL ENGINEERING MANAGER 11/20/17
DATE

T.I.D., 333 EAST CANAL DRIVE, TURLOCK, CA 95381 (209) 883-8367

BID SUBMITTAL

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. NOBIGA
61594
6/30/19
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: DATE:

REVISIONS			
NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County
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TITLE SHEET
IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE
INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
DR BY JAR
CK BY JML
SURVEY
CONST.
SCALE NTS

SHEET NUMBER
1
OF 21 SHEETS

PLOT DATE:12/11/2017 9:37:58 AM CAD USER: JREGIER
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PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_G-1.dwg PLOT DATE: 11/13/2017 9:56:01 AM CAD USER: JREGLER

CONTACT INFORMATION

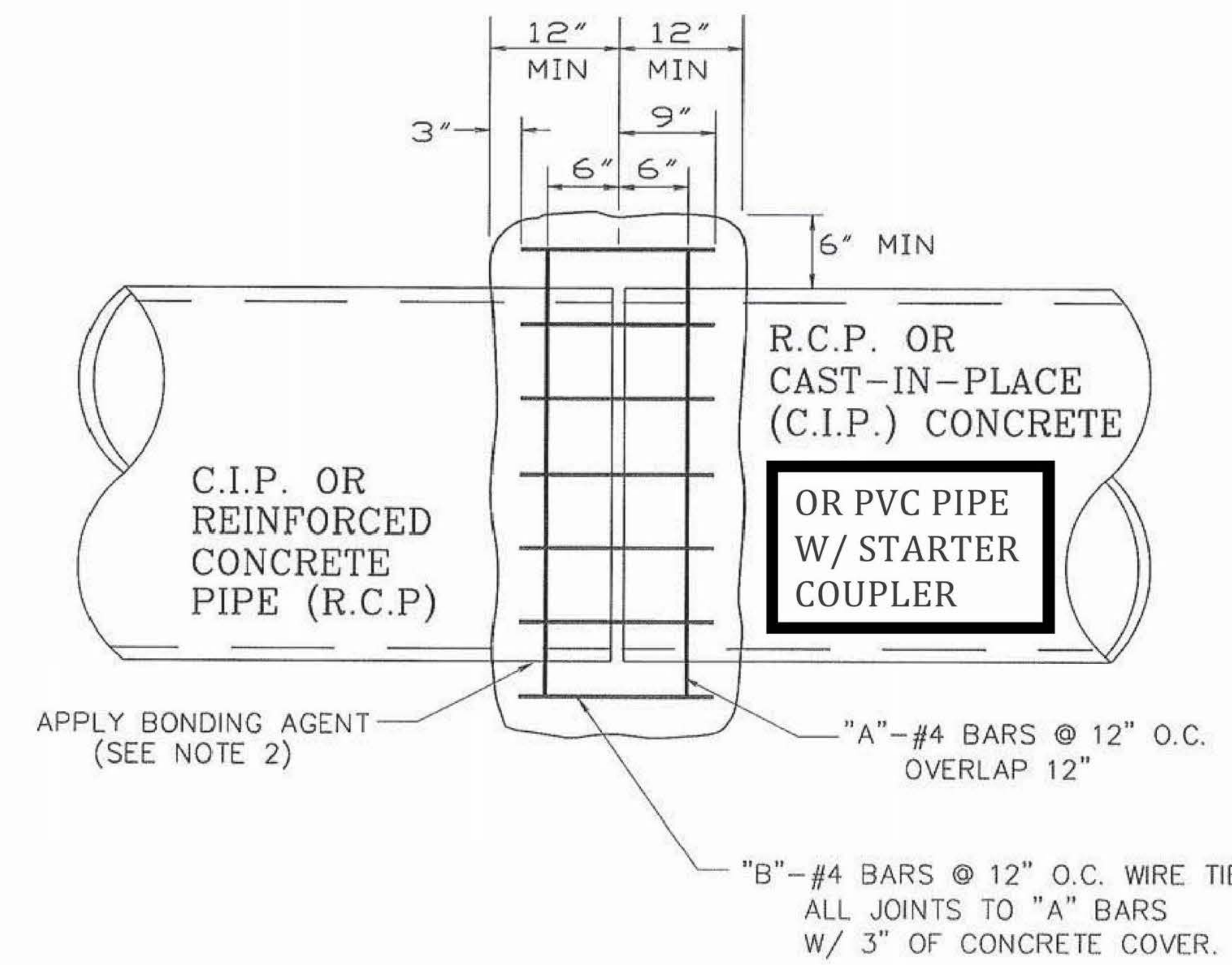
UTILITY	COMPANY	REPRESENTATIVE	TELEPHONE
COUNTY	STANISLAUS COUNTY DEPARTMENT OF PUBLIC WORKS	SHOAIB AHRARY	(209) 525-4133
COMMUNICATION	LEVEL 3	CALEB KING	(918) 547-3395
COMMUNICATION	AT&T	ROBERT KNECHT	(209) 578-7037
COMMUNICATION	CVIN	JOHN PLATH	(559) 554-9114
ELECTRIC / GAS	PG&E	PAUL SENSIBAUGH III	(209) 942-1650
ELECTRIC	TID	DAVID PORATH	(209) 883-8659
IRRIGATION	TID	TODD TROGLIN	(209) 883-8367
RAILROAD	BNSF RAILWAY	TAYLOR SMITH	(909) 386-4474

LEGEND

CENTERLINE		(E) MANHOLE	
R/W LINE		(E) UTILITY BOX	
PROPERTY LINE		(E) WATER VALVE	
FILL LINE	— — —F—	(E) SIGN	
CUT LINE	— — —C—	(E) HYDRANT	
SAWCUT LINE		(E) TREE	
AC GRIND LIMIT		(E) UTILITY POLE	
FLOW ARROW		(E) GUY ANCHOR	
ANGLE POINT		(E) LIGHT STANDARD	
POINT ON CURVE		(E) GAS VALVE	
(E) SD	—sd—sd—	(E) FENCE	—X—X—

ABBREVIATIONS

AB	AGGREGATE BASE	EA	EACH	MH	MANHOLE	STD	STANDARD
Abn	ABANDON	EAA	END ANCHOR ASSEMBLY	MIN	MINIMUM	SW	SIDEWAL
AC	ASPHALT CONCRETE	EC	END CURVE	N	NORTH	TC	TOP OF CURB
AFTS	ALTERNATIVE FLARED END SECTION	EL	ELEVATION	NTS	NOT TO SCALE	TRANS	TRANSITION
AP	ANGLE POINT	ELEC	ELECTRICAL	OG	ORIGINAL GROUND	TYP	TYPICAL
APPROX	APPROXIMATE	EP	EDGE OF PAVEMENT	PCC	PORTLAND CEMENT CONCRETE	V	VERTICAL
AVE	AVENUE	EVC	END VERTICAL CURVE	PG	PROFILE GRADE	VAR	VARIES
BC	BEGIN CURVE	Exist,(E)	EXISTING	PI	POINT OF INTERSECTION	VC	VERTICAL CURVE
Beg	BEGIN	FDR	FULL DEPTH REHABILITATION	P/L	PROPERTY LINE	VG	VALLEY GUTTER
BVC	BEGIN VERTICAL CURVE	FL	FLOW LINE	PRC	POINT OF REVERSING CURVE	VGFL	VALLEY GUTTER FLOW LINE
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY	GB	GRADE BREAK	Prop,(P)	PROPOSED	W	WEST/WATER
		HMA	HOT MIX ASPHALT	PVI	POINT VERTICAL INTERSECTION		
CNS	COMPACTED NATURAL SOIL	HP	HINGE POINT/HIGH POINT	R	RADIUS		
Comm	COMMUNICATION	INV	INVERT	RCP	REINFORCED CONCRETE PIPE		
Conc	CONCRETE	Irr	IRRIGATION	Rt	RIGHT		
CR	CROWN	LF	LINEAR FEET	RW	RIGHT OF WAY		
CY	CUBIC YARD	Lt	LEFT	SAW	SAWCUT		
DWY	DRIVEWAY	MAX	MAXIMUM	SD	STORM DRAIN		
E	EAST	MGS	MIDWEST GUARDRAIL SYSTEM	STA	STATION		



NOTES:

1. IF PIPE JOINT INVOLVES A BEND OR TURN USE A COLLAR WIDTH OF 36" AND A MIN. OF 3 "A" BARS.
2. CLEAN THE PIPE SURFACE THOROUGHLY AND APPLY AN APPROVED BONDING AGENT TO THE PIPES PRIOR TO POURING THE COLLAR.
3. DRYPACK AND BAND INTERIOR PIPE JOINT.
4. IF PVC PIPE IS USED, THE PIPE MATERIAL SHALL CONFORM TO ASTM D1784.
5. ALL PLASTIC CONNECTIONS TO CONCRETE PIPES SHALL BE COMPLETED USING A GALVANIZED STEEL STARTER COUPLER. STARTER COUPLERS MUST BE CUSTOM ORDERED TO FIT EACH SPECIFIC APPLICATION.

TURLOCK IRRIGATION DISTRICT

IRRIGATION CONSTRUCTION STANDARDS

MODIFIED
CONCRETE COLLAR FOR IRRIGATION PIPELINES

REV	DESCRIPTION	INIT	CHK	RV'D	APP	APP	DATE
B	WO and C&M AGM	Keith Cargill					
B	GENERAL REVISION			AWV			7/10
A	WIRE TIE JOINTS	ABO					

SHEET 1 OF 1 | CS 102B | PAGE

MODIFIED TID STANDARD CS 102B

BID SUBMITTAL

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA 61535 Exp. 6/30/19 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: DATE:

NO	DESCRIPTIONS	DATE	APPROVED

REVISIONS

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County Striving to be the best

GENERAL NOTES AND DETAILS

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

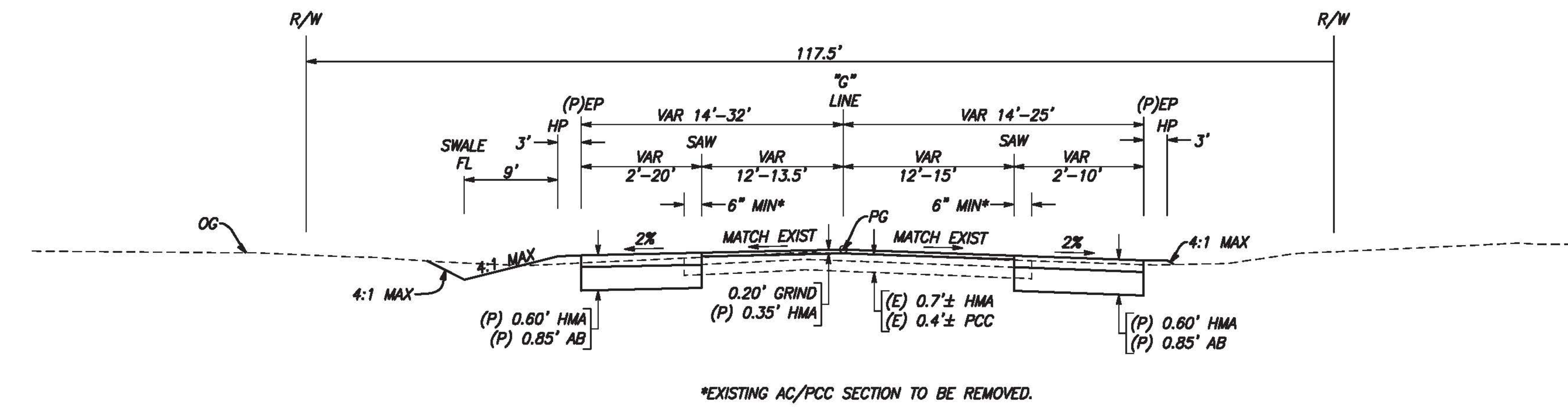
JOB NO FN-15109
DATE 11-13-17
DR BY JAR
CK BY JML
SURVEY
CONST.
SCALE

SHEET NUMBER 2 OF 21 SHEETS

NOTES

1. FOR LIMITS OF SWALES SEE THE PLAN AND PROFILE SHEETS.

DESIGN DESIGNATIONS										
STREET NAME	STATION RANGE	TRAFFIC INDEX	"R" VALUE	MINIMUM HMA GRIND AND OVERLAY		MINIMUM FDR PAVEMENT SECTION		MINIMUM CONVENTIONAL PAVEMENT SECTION	
				GRIND	HMA	HMA	FDR	HMA	AB
GEER ROAD – "G" LINE	103+30.00 TO 113+60.00 115+96.94 TO 121+85.00	12	50	0.20'	0.35'	0.55'	1.00'	0.60'	0.85'
SANTA FE AVENUE – "SF" LINE	15+23.00 TO 22+10.16 25+74.48 TO 31+45.00	12	50			0.55'	1.00'		
INTERSECTION	"G" 112+88.55 TO "G" 115+96.94 "SF" 22+10.16 TO "SF" 25+74.48	12	50			0.55'	1.00'		

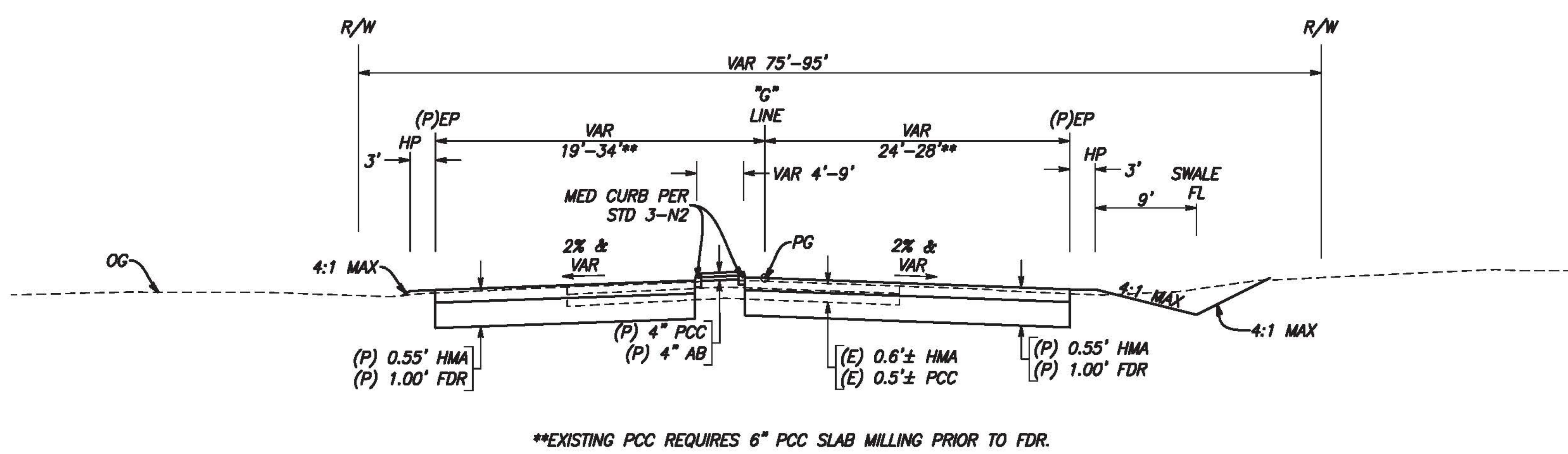


*EXISTING AC/PCC SECTION TO BE REMOVED.

GEER ROAD

"G" LINE - STA 117+00.00 TO 121+85.00

SCALE NTS

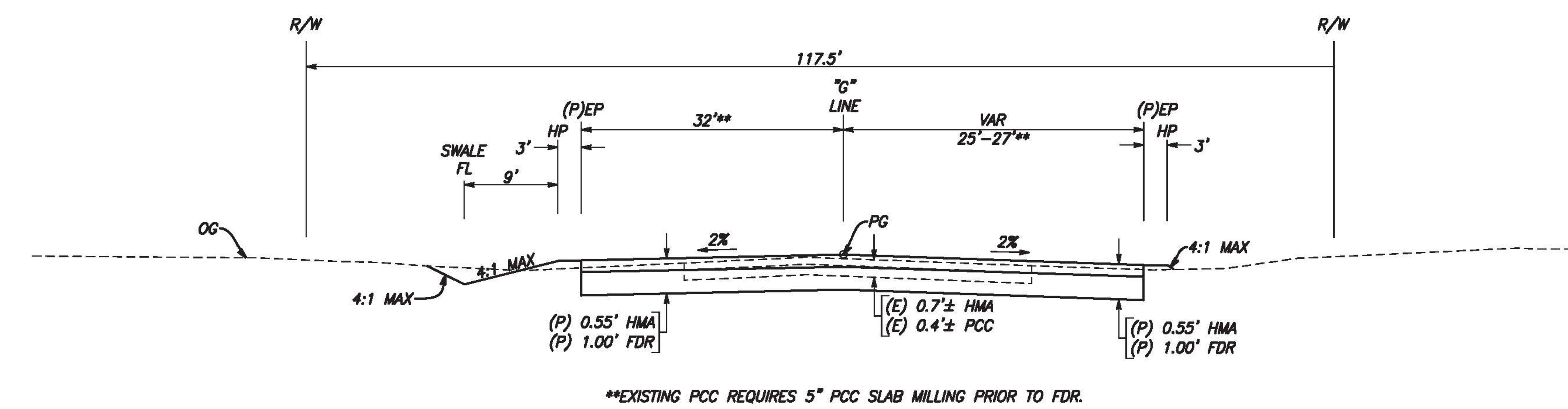


**EXISTING PCC REQUIRES 6" PCC SLAB MILLING PRIOR TO FDR.

GEER ROAD

"G" LINE - STA 108+35.00 TO 112+00.00

SCALE NTS

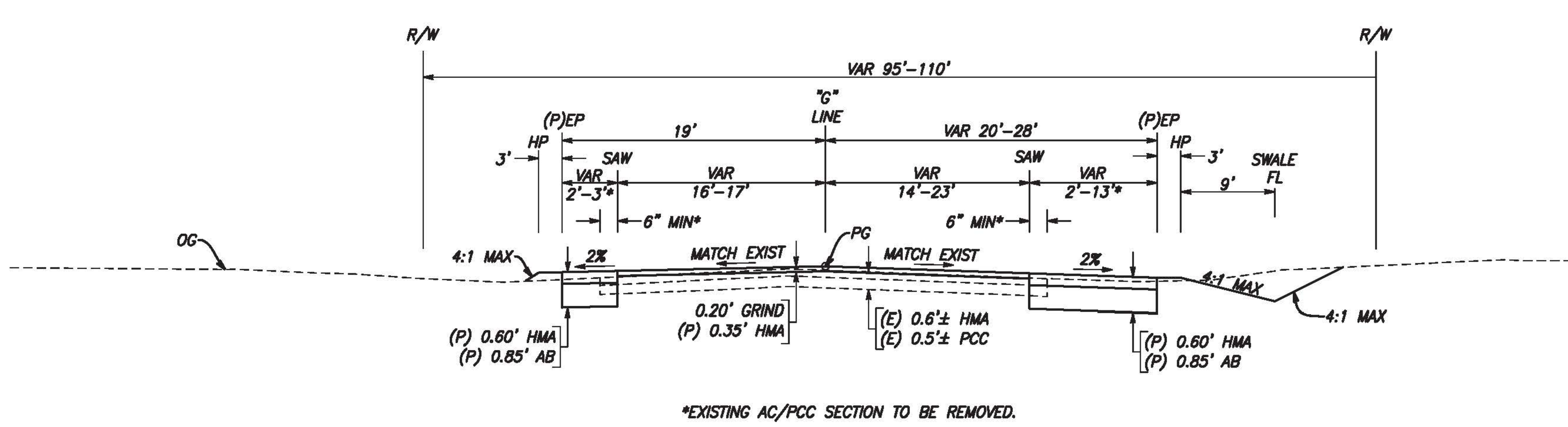


**EXISTING PCC REQUIRES 5" PCC SLAB MILLING PRIOR TO FDR.

GEER ROAD

"G" LINE - STA 115+96.94 TO 117+00.00

SCALE NTS

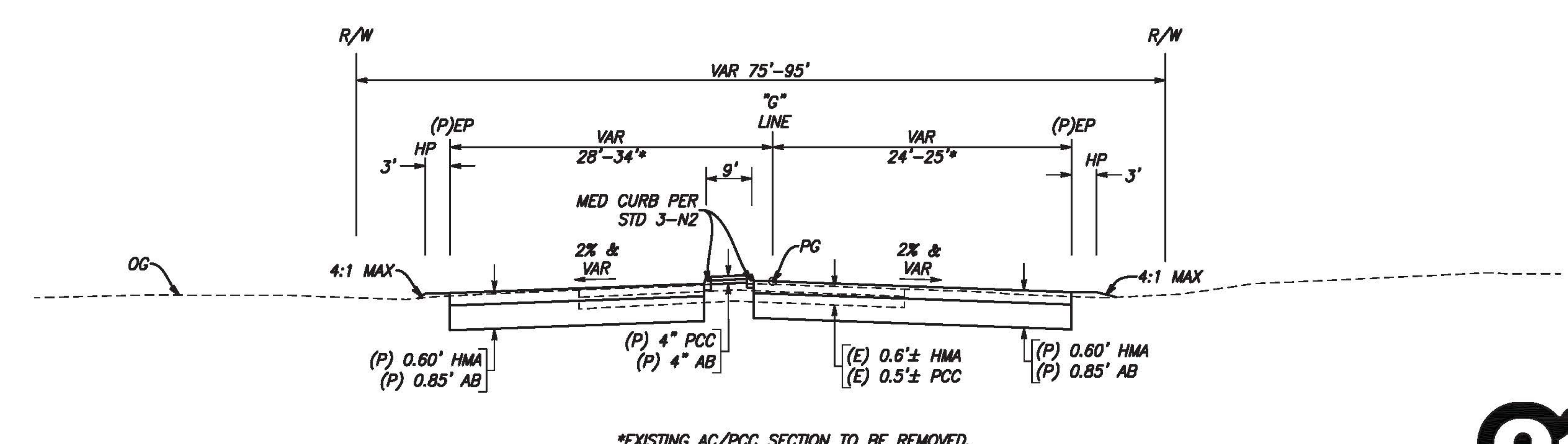


*EXISTING AC/PCC SECTION TO BE REMOVED.

GEER ROAD

"G" LINE - STA 103+30.00 TO 108+35.00

SCALE NTS



*EXISTING AC/PCC SECTION TO BE REMOVED.

GEER ROAD

"G" LINE - STA 112+00.00 TO 113+60.00

SCALE NTS

BID SUBMITTAL

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA 61... 6/30/19 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: DATE:

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REVISIONS			

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

Stanislaus County — Striving to be the best

TYPICAL SECTIONS

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE
INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
DR BY JAR
CK BY JML
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SHEET NUMBER 3 OF 21 SHEETS

CAD USER: JREGIER PLOT DATE:1/30/2018 11:54:26 AM

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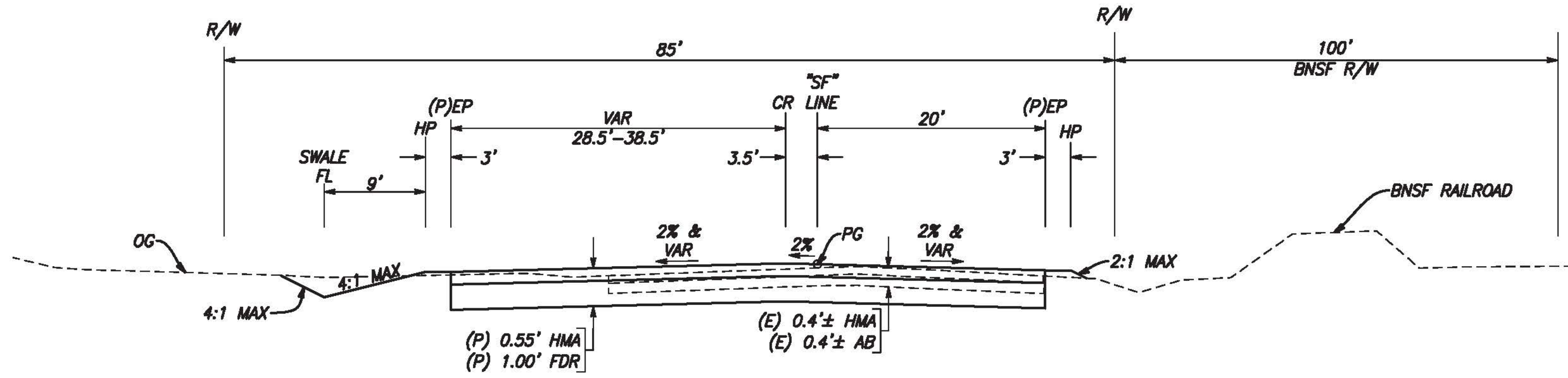
NOTES

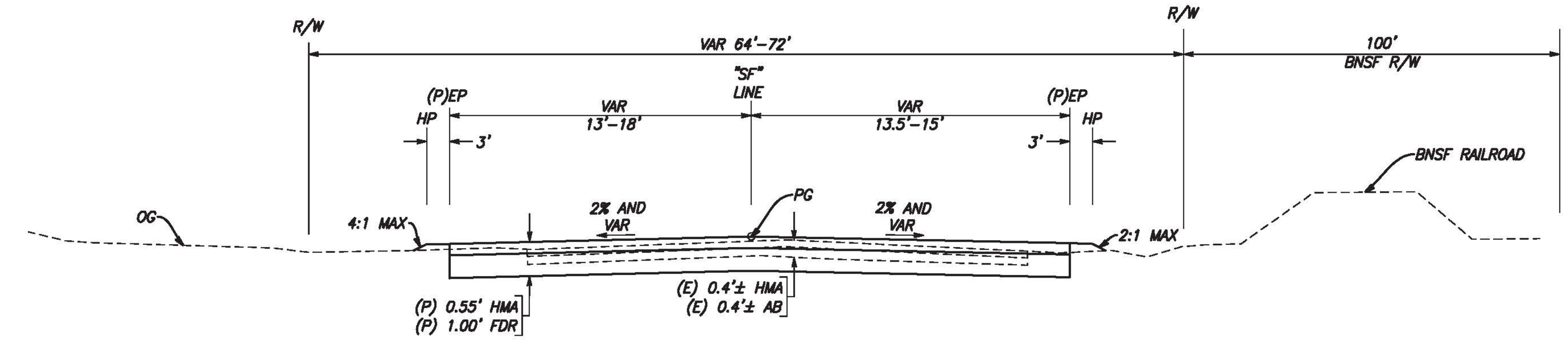
1. FOR LIMITS OF SWALES SEE THE PLAN AND PROFILE SHEETS.



SANTA FE AVENUE

"SF" LINE - STA 19+60.85 TO 22+10.16

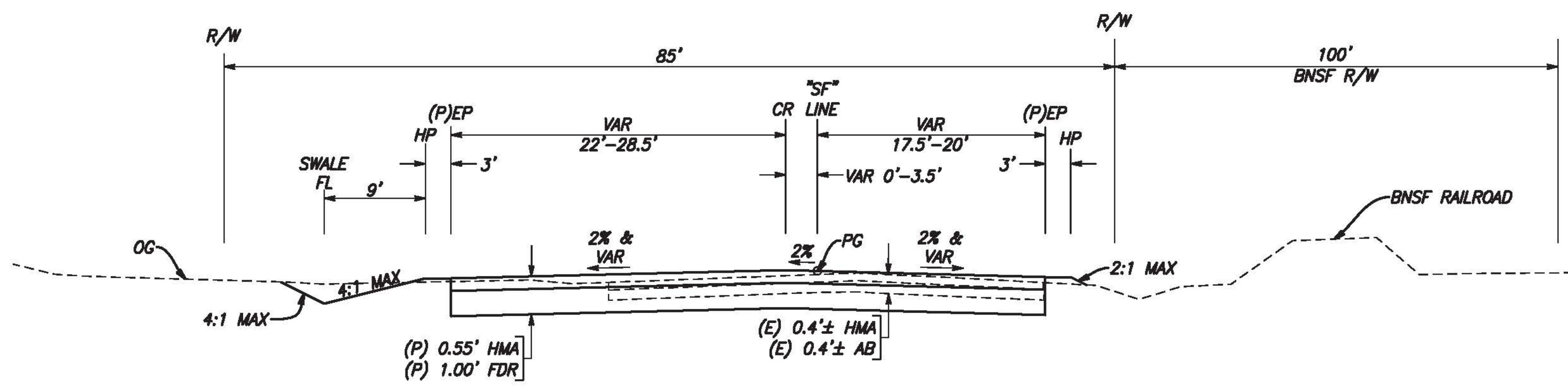
SCALE NTS



SANTA FE AVENUE

"SF" LINE - STA 29+88.24 TO 31+45.00

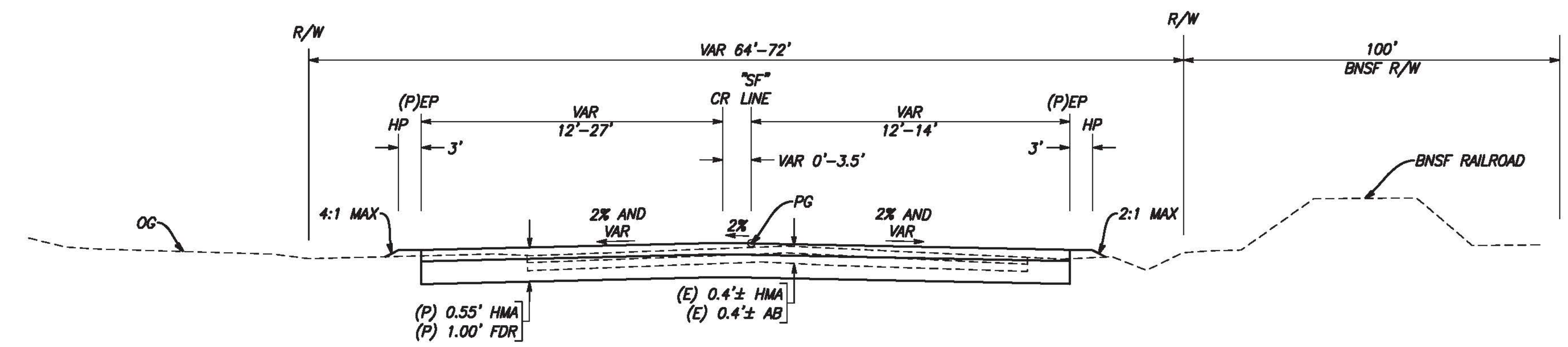
SCALE NTS



SANTA FE AVENUE

"SF" LINE - STA 17+62.76 TO 19+60.85

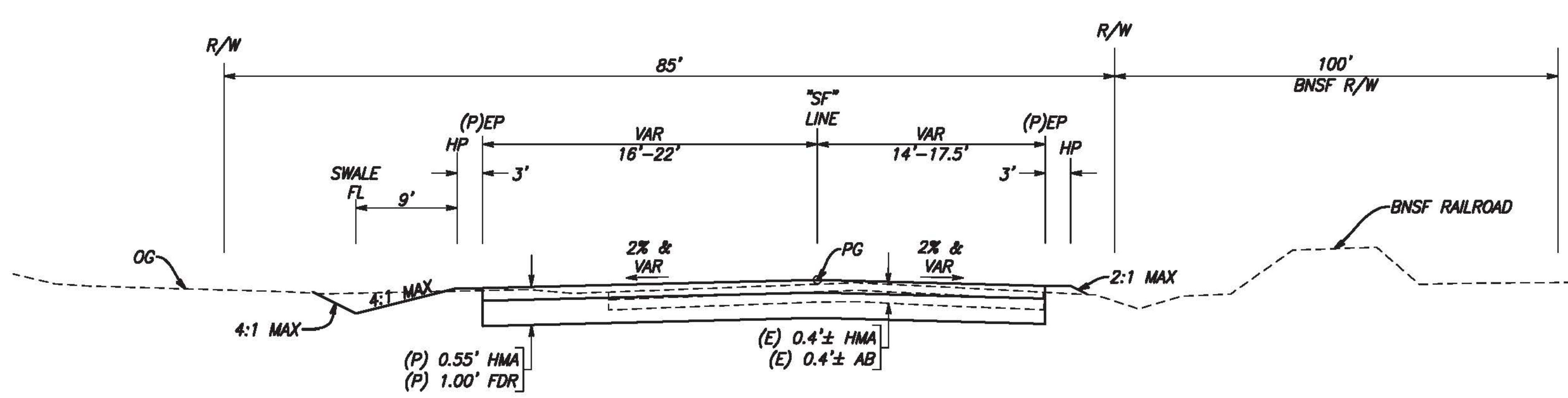
SCALE NTS



SANTA FE AVENUE

"SF" LINE - STA 26+87.43 TO 29+88.24

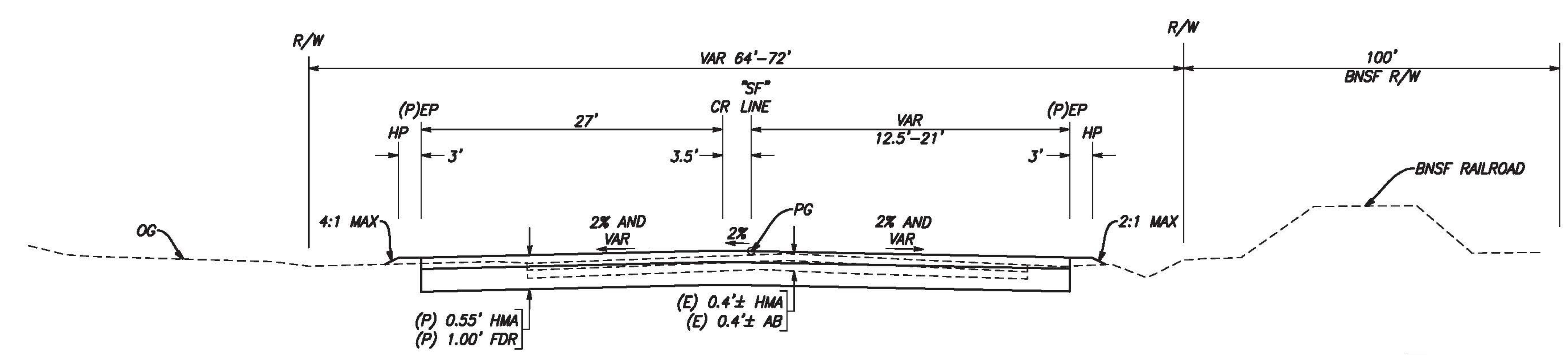
SCALE NTS



SANTA FE AVENUE

"SF" LINE - STA 15+23.00 TO 17+62.76

SCALE NTS



SANTA FE AVENUE

"SF" LINE - STA 25+74.48 TO 26+87.43

SCALE NTS

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REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA 61526 6/30/19 CIVIL STATE OF CALIFORNIA

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STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

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TYPICAL SECTIONS

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE
INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
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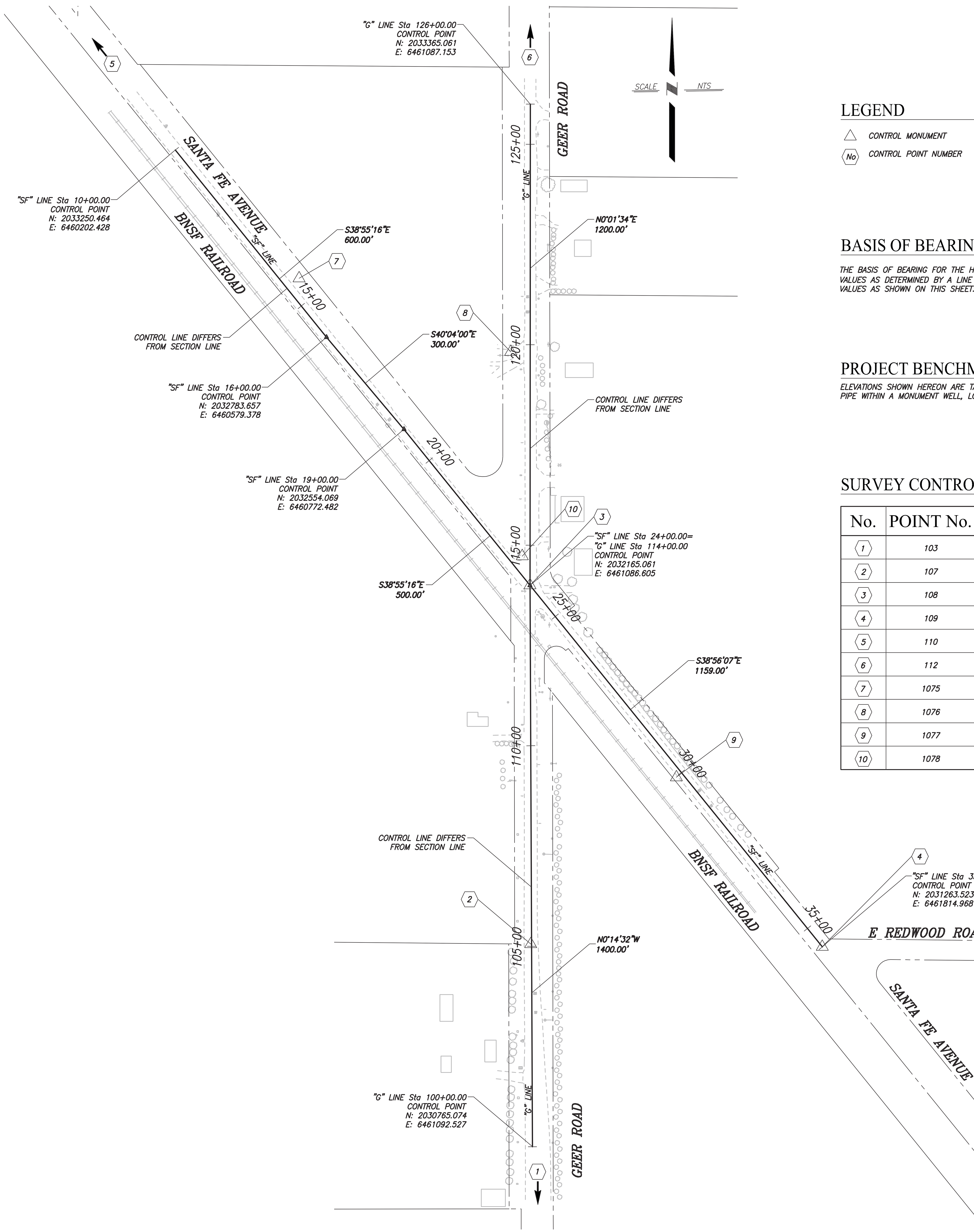
SHEET NUMBER 4 OF 21 SHEETS



LEGEND

△ CONTROL MONUMENT

⟨No⟩ CONTROL POINT NUMBER

BASIS OF BEARING

THE BASIS OF BEARING FOR THE HORIZONTAL CONTROL IS CALIFORNIA COORDINATE SYSTEM, ZONE 3 NAD 83 (EPOCH 2010). HOLDING THE VALUES AS DETERMINED BY A LINE BETWEEN SURVEY CONTROL '108' AND '109', BEARING SOUTH 38°56'07" EAST AS DERIVED FROM VALUES AS SHOWN ON THIS SHEET.

PROJECT BENCHMARK

ELEVATIONS SHOWN HEREON ARE TAKEN FROM THE NORTH AMERICAN VERTICAL DATUM OF 1988. BASED LOCALLY UPON A FOUND 2 INCH IRON PIPE WITHIN A MONUMENT WELL, LOCATED AT THE INTERSECTION OF GEER ROAD AND SANTA FE AVENUE. ELEVATION = 124.151 FEET.

SURVEY CONTROL TABLE

No.	POINT No.	NORTHING	EASTING	ELEVATION	DESCRIPTION	APPROX. LOCATION
1	103	2028631.127	6461092.455	123.639	1 1/2" IRON PIPE, SE COR. SEC. 22, 4/10	INTERSECTION OF GEER ROAD AND GRAYSON ROAD
2	107	2031270.417	6461088.377	121.507	1 1/2" IRON PIPE, E QTR. COR. SEC. 22, 4/10	903 FEET SOUTH OF SANTA FE AVENUE ON GEER ROAD
3	108	2032165.061	6461086.605	124.151	2" IRON PIPE, (PROJECT BENCHMARK)	INTERSECTION OF SANTA FE AVENUE AND GEER ROAD
4	109	2031263.523	6461814.968	121.762	CONCRETE MONUMENT	INTERSECTION OF SANTA FE AVENUE AND E REDWOOD ROAD
5	110	2033920.000	6459663.061	123.131	TEE BAR	INTERSECTION OF SANTA FE AVENUE AND SERVICE ROAD
6	112	2033909.618	6461083.971	124.643	2" IRON PIPE, NE COR. SEC. 22, 4/10	INTERSECTION OF GEER ROAD AND SERVICE ROAD
7	1075	2032930.611	6460510.779	121.519	NAIL AND SHINER	960 FEET NORTHWEST OF GEER ROAD ON SANTA FE AVENUE
8	1076	2032746.972	6461038.521	122.070	NAIL AND SHINER	580 FEET NORTH OF SANTA FE AVENUE ON GEER ROAD
9	1077	2031686.217	6461451.3250	120.840	NAIL AND SHINER	602 FEET SOUTHEAST OF GEER ROAD ON SANTA FE AVENUE
10	1078	2032237.563	6461067.171	123.149	NAIL AND SHINER	INTERSECTION OF SANTA FE AVENUE AND GEER ROAD (NW CORNER)

BID SUBMITTAL

811 CALL BEFORE YOU DIG

LICENSED LAND SURVEYOR GREGORY RICE Exp. 03-31-19 No. 8201 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: DATE:

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STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

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PROJECT CONTROL

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE
INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
DR BY JAR
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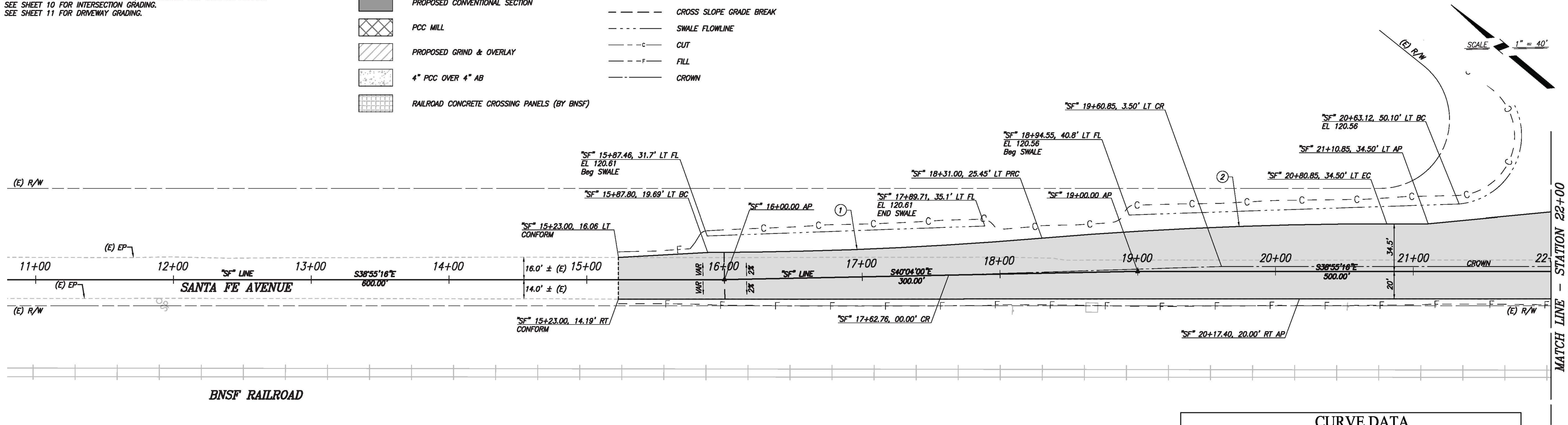
SURVEY
CONST.
SCALE NTS

GENERAL NOTES

1. ALL STATION OFFSETS TO EP UNLESS OTHERWISE NOTED.
2. FOR CONTROL LINE & MONUMENT INFORMATION, SEE PROJECT CONTROL SHEET.
3. FOR UTILITY INFORMATION, SEE UTILITY PLAN SHEETS.
4. FOR SIGN AND STRIPING INFORMATION, SEE SIGNING AND STRIPING SHEETS.
5. SEE SHEET 10 FOR INTERSECTION GRADING.
6. SEE SHEET 11 FOR DRIVEWAY GRADING.

LEGEND

- PROPOSED FDR PAVEMENT SECTION
- PROPOSED CONVENTIONAL SECTION
- PCC MILL
- PROPOSED GRIND & OVERLAY
- 4" PCC OVER 4" AB
- RAILROAD CONCRETE CROSSING PANELS (BY BNSF)
- EXISTING TREE TO BE REMOVED
- SAWCUT
- CROSS SLOPE GRADE BREAK
- SWALE FLOWLINE
- CUT
- FILL
- CROWN

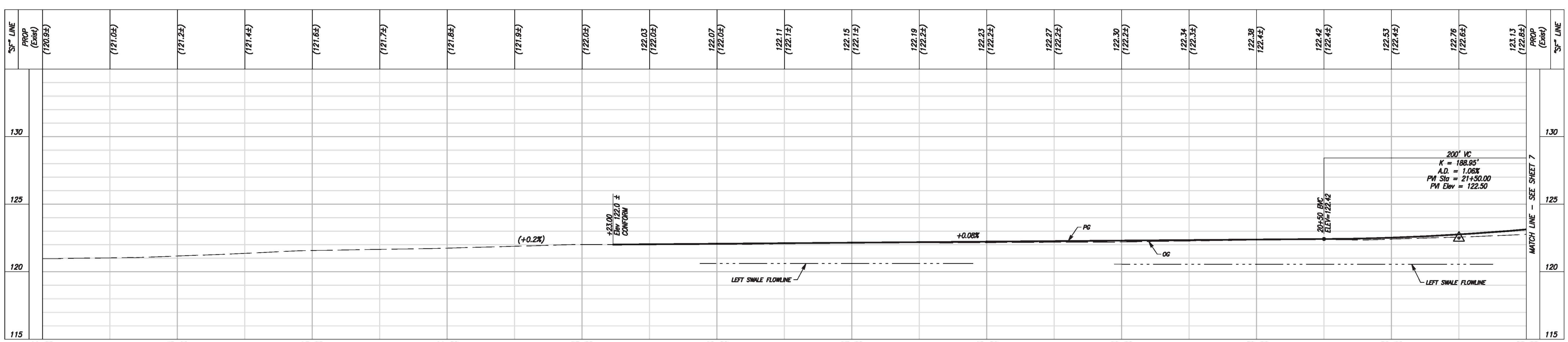


CURVE DATA

CURVE NUMBER	R	Δ	T	L
1	2992.00'	04° 39' 07"	121.53'	242.93'
2	3008.00'	04° 46' 26"	125.39'	250.63'

SANTA FE AVENUE PLAN

SCALE: 1" = 40'



SANTA FE AVENUE PROFILE

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

BID SUBMITTAL

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. NORIEGA
61360
EXP. 6/30/19
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ______ DATE: ______

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STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County
Striving to be the best

PLAN AND PROFILE

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
DR BY JAR
CK BY JML
SURVEY
CONST.
SCALE 1"=40'

GENERAL NOTES

1. ALL STATION OFFSETS TO EP UNLESS OTHERWISE NOTED.
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LEGEND

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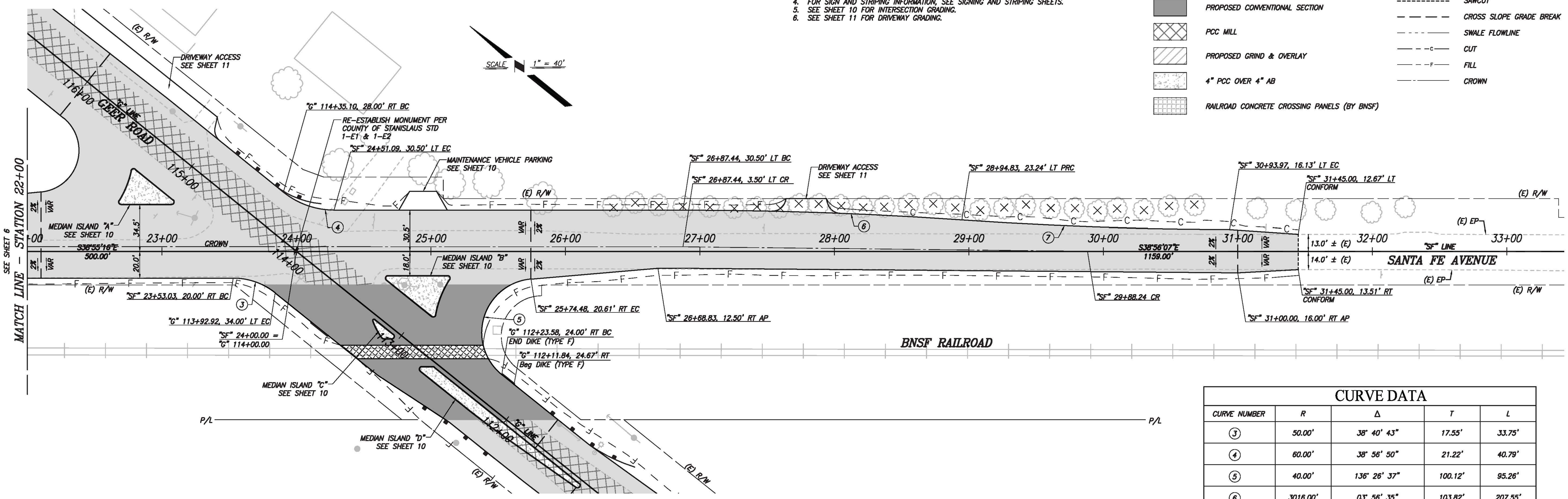
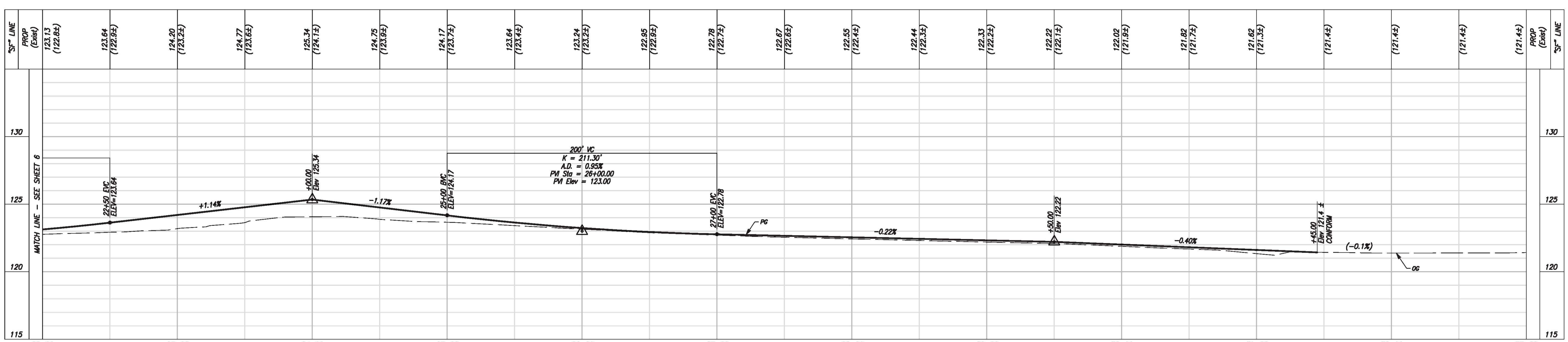


SANTA FE AVENUE PLAN

SCALE: 1" = 40'

CURVE DATA

CURVE NUMBER	R	Δ	T	L
3	50.00'	38° 40' 43"	17.55'	33.75'
4	60.00'	38° 56' 50"	21.22'	40.79'
5	40.00'	136° 26' 37"	100.12'	95.26'
6	3016.00'	03° 56' 35"	103.82'	207.55'
7	2984.00'	03° 49' 37"	99.69'	199.30'



SANTA FE AVENUE PROFILE

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

BID SUBMITTAL

811 CALL BEFORE YOU DIG

PLOT DATE: 1/30/2018 9:37:37 AM CAD USER: JREGIER

PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_PP-1-PP-5.dwg

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 61535 Exp. 6/30/19 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ______ DATE: ______

NO	DESCRIPTIONS	DATE	APPROVED
REVISIONS			

STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County — Striving to be the best

PLAN AND PROFILE

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
DR BY JAR
CK BY JML
SURVEY
CONST.
SCALE 1"=40'

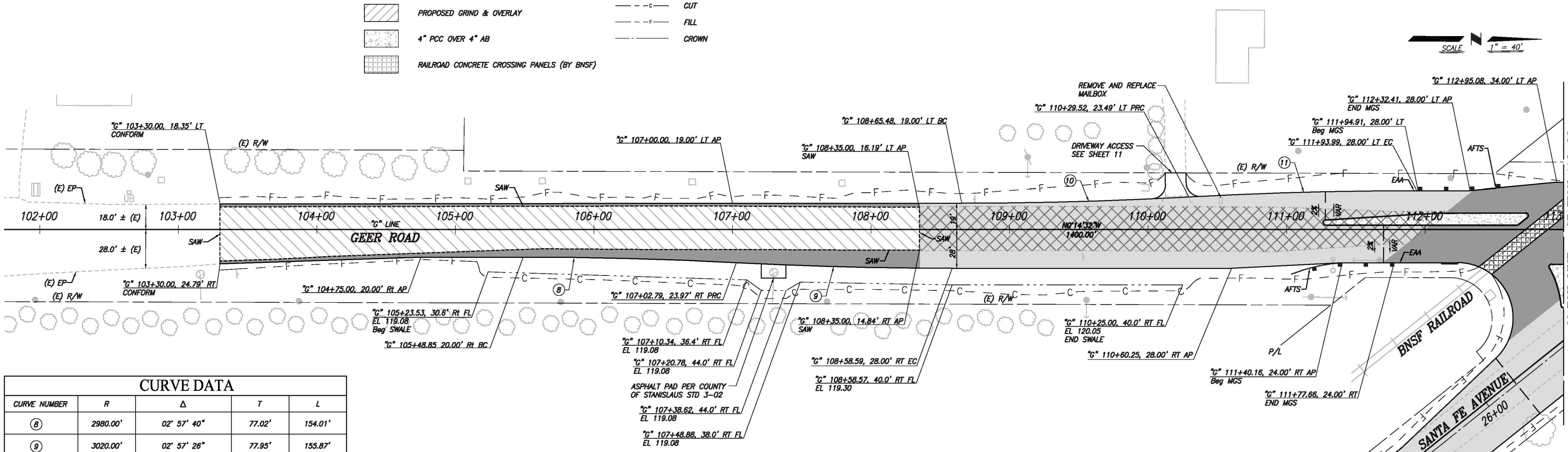
SHEET NUMBER 7 OF 21 SHEETS

GENERAL NOTES

1. ALL STATION OFFSETS TO EP UNLESS OTHERWISE NOTED.
2. FOR CONTROL LINE & MONUMENT INFORMATION, SEE PROJECT CONTROL SHEET.
3. FOR UTILITY INFORMATION, SEE UTILITY PLAN SHEETS.
4. FOR SIGN AND STRIPING INFORMATION, SEE SIGNING AND STRIPING SHEETS.
5. SEE SHEET 10 FOR INTERSECTION GRADING.
6. SEE SHEET 11 FOR DRIVEWAY GRADING.

LEGEND

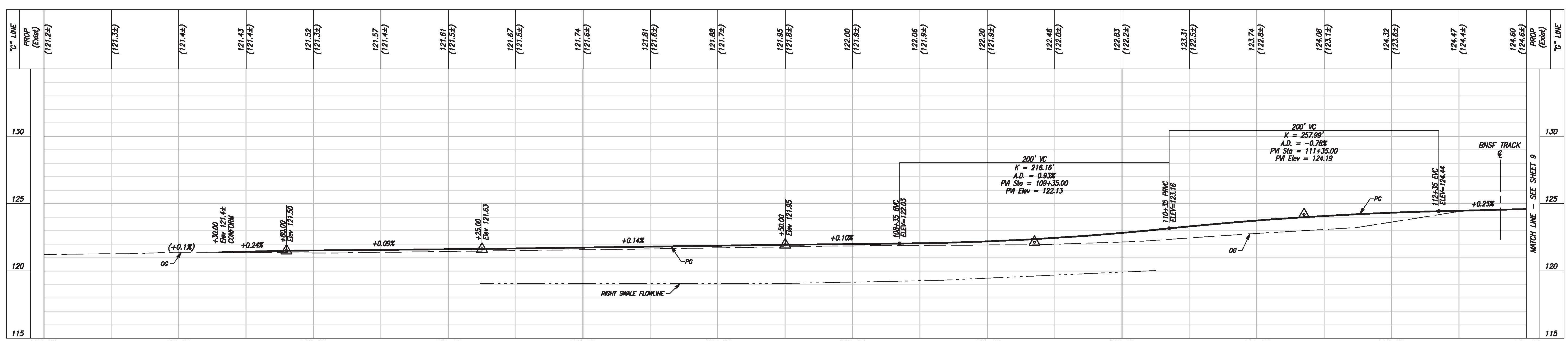
- PROPOSED FDR PAVEMENT SECTION
- PROPOSED CONVENTIONAL SECTION
- PCC MILL
- PROPOSED GRIND & OVERLAY
- 4" PCC OVER 4" AB
- RAILROAD CONCRETE CROSSING PANELS (BY BNSF)
- EXISTING TREE TO BE REMOVED
- SAWCUT
- CROSS SLOPE GRADE BREAK
- SWALE FLOWLINE
- CUT
- FILL
- CROWN



GEER ROAD PLAN

SCALE: 1" = 40'

CURVE DATA				
CURVE NUMBER	R	Δ	T	L
8	2980.00'	02° 57' 40"	77.02'	154.01'
9	3020.00'	02° 57' 26"	77.95'	155.87'
10	2996.00'	03° 08' 19"	82.08'	164.12'
11	3004.00'	03° 08' 19"	82.30'	164.56'



GEER ROAD PROFILE

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

BID SUBMITTAL

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. NORIEGA
61330
6/30/19
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ______ DATE: ______

REVISIONS			
NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County
Striving to be the best

PLAN AND PROFILE

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE
INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO	FN-15109
DATE	11-13-17
DR BY	JAR
CK BY	JML
SURVEY	
CONST.	
SCALE	1"=40'

SHEET NUMBER 8 OF 21 SHEETS

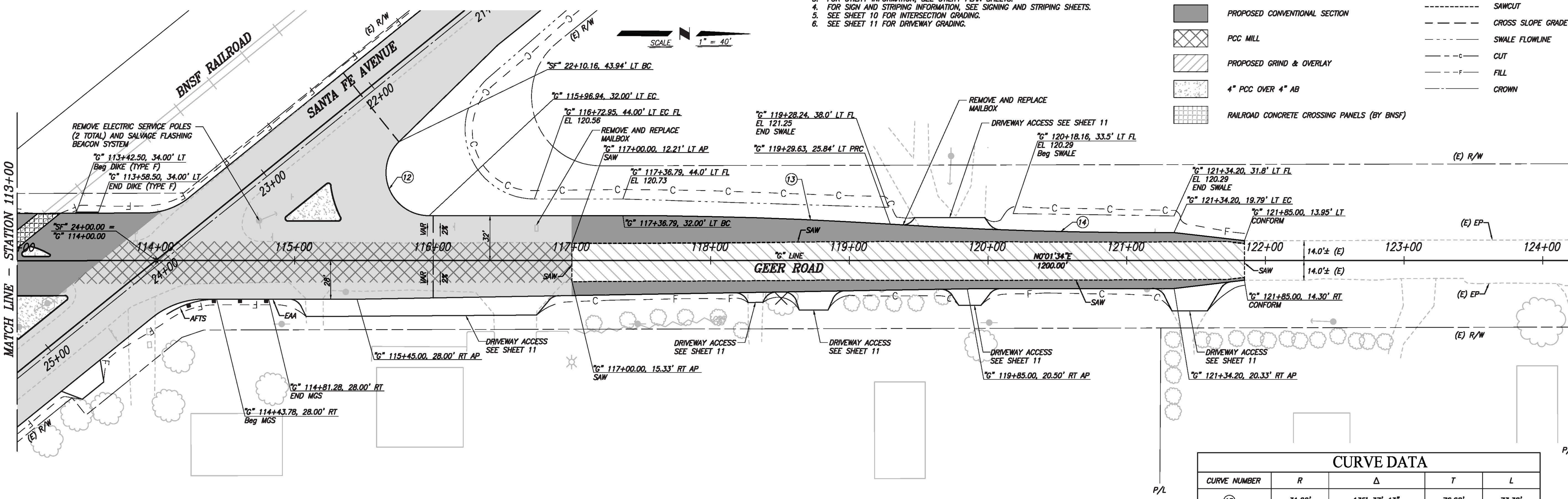
CAD USER: JREGLER
PLOT DATE: 1/30/2018 9:38:20 AM
PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_PP-1-PP-5.dwg

GENERAL NOTES

1. ALL STATION OFFSETS TO EP UNLESS OTHERWISE NOTED.
2. FOR CONTROL LINE & MONUMENT INFORMATION, SEE PROJECT CONTROL SHEET.
3. FOR UTILITY INFORMATION, SEE UTILITY PLAN SHEETS.
4. FOR SIGN AND STRIPING INFORMATION, SEE SIGNING AND STRIPING SHEETS.
5. SEE SHEET 10 FOR INTERSECTION GRADING.
6. SEE SHEET 11 FOR DRIVEWAY GRADING.

LEGEND

PROPOSED FDR PAVEMENT SECTION
PROPOSED CONVENTIONAL SECTION
PCC MILL
PROPOSED GRIND & OVERLAY
4" PCC OVER 4" AB
RAILROAD CONCRETE CROSSING PANELS (BY BNSF)
EXISTING TREE TO BE REMOVED
SAWCUT
CROSS SLOPE GRADE BREAK
SWALE FLOWLINE
CUT
FILL
CROWN

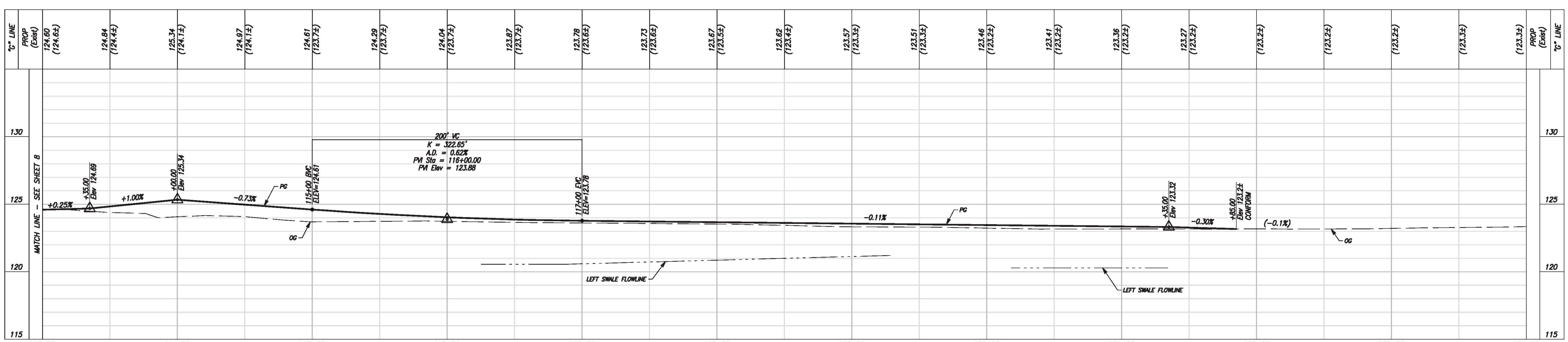


GEER ROAD PLAN

SCALE: 1" = 40'

CURVE DATA

CURVE NUMBER	R	Δ	T	L
12	31.00'	135° 37' 43"	76.02'	73.38'
13	3020.00'	03° 39' 40"	96.52'	192.97'
14	2980.00'	03° 56' 09"	102.39'	204.70'



GEER ROAD PROFILE

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

BID SUBMITTAL

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. NORIEGA
No. 61535
Exp. 6/30/19
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ______ DATE: ______

REVISIONS			
NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County — Striving to be the best

PLAN AND PROFILE

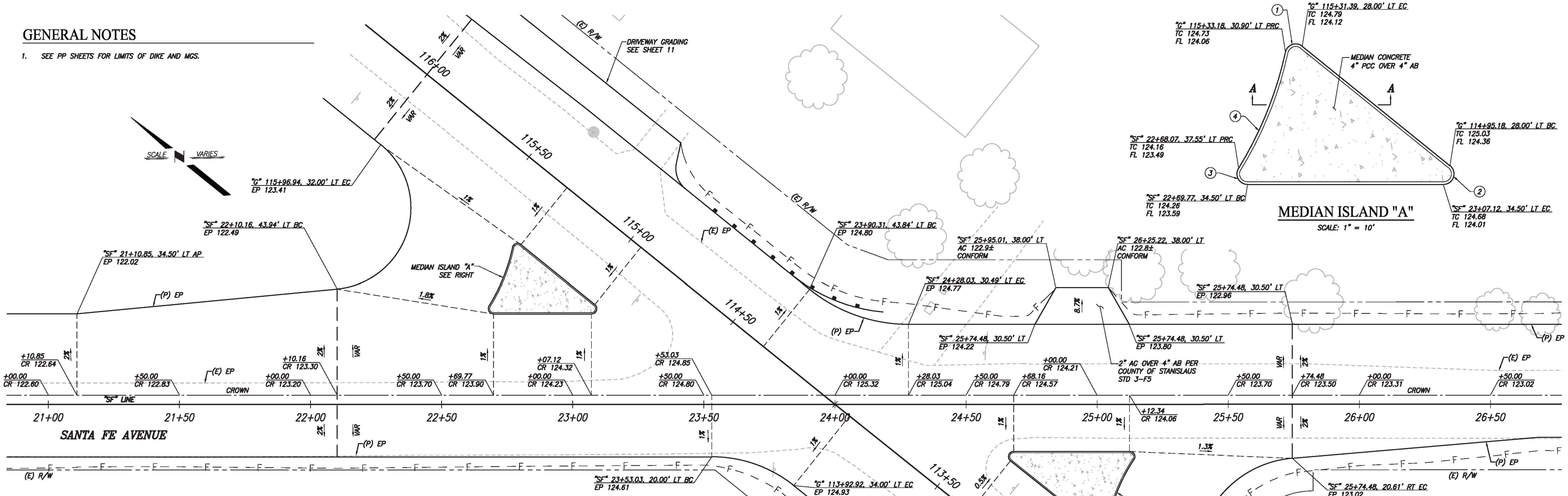
IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO	FN-15109
DATE	11-13-17
DR BY	JAR
CK BY	JML
SURVEY	
CONST.	
SCALE	1"=40'

CAD USER: JREGLER
PLOT DATE: 1/30/2018 9:39:04 AM
PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_PP-1-PP-5.dwg

GENERAL NOTES

1. SEE PP SHEETS FOR LIMITS OF DIKE AND MGS.

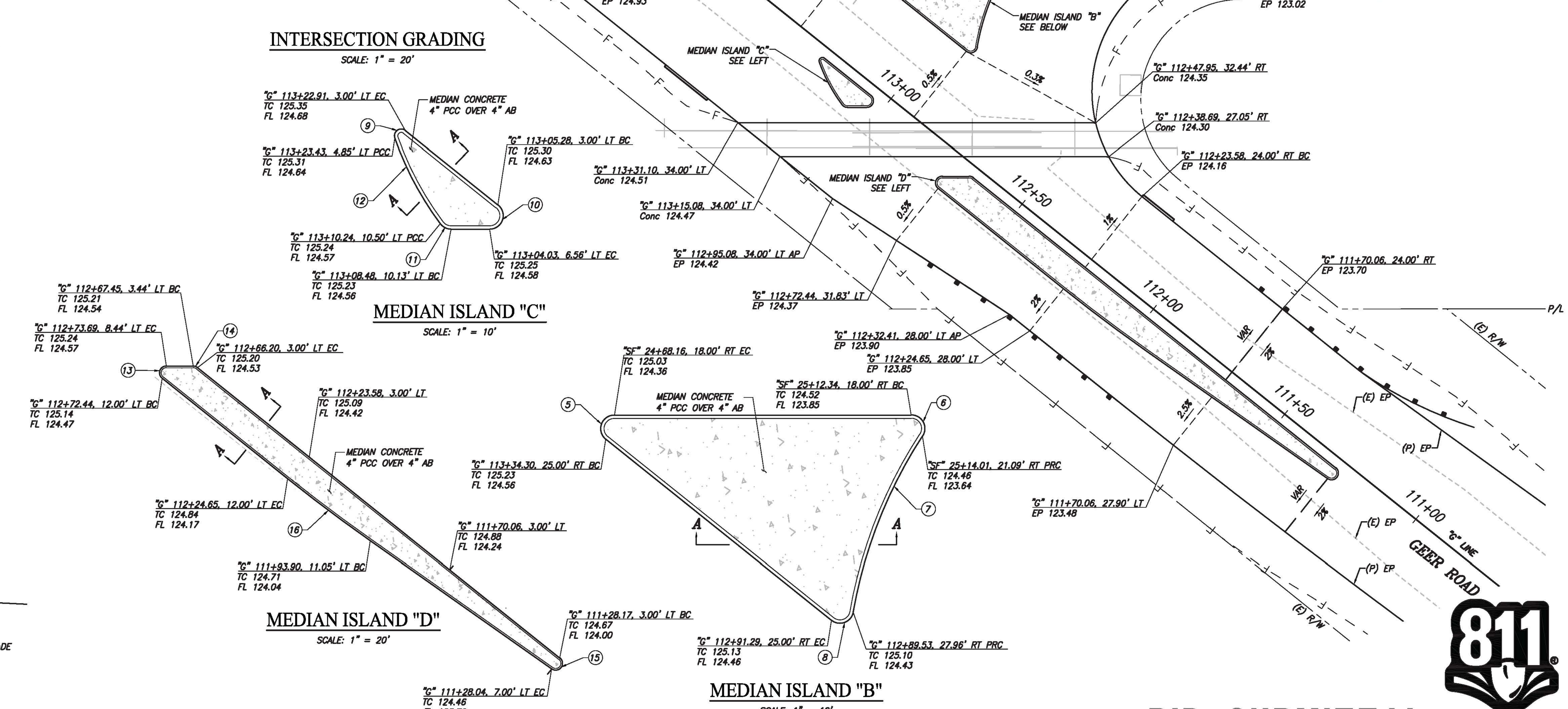


MEDIAN ISLAND "A"

SCALE: 1" = 10'

INTERSECTION GRADING

SCALE: 1" = 20'



MEDIAN ISLAND "C"

SCALE: 1" = 10'

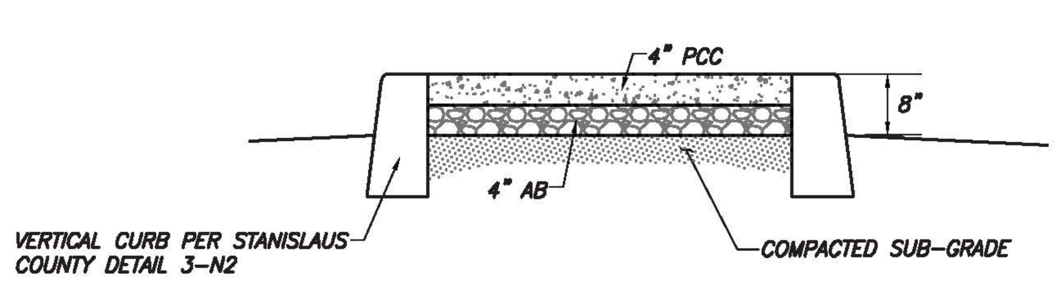
MEDIAN ISLAND "D"

SCALE: 1" = 20'

MEDIAN ISLAND "B"

SCALE: 1" = 10'

CURVE DATA				
CURVE NUMBER	R	Δ	T	L
1	2.00'	116°38'45"	3.24	4.07'
2	2.00'	141°03'10"	5.66	4.92'
3	2.00'	121°39'24"	3.58	4.25'
4	71.00'	19°21'20"	12.11	23.98'
5	2.00'	141°18'26"	5.70	4.93'
6	2.00'	123°06'48"	3.69	4.30'
7	70.00'	23°09'31"	14.34	28.29'
8	2.00'	118°44'17"	3.38	4.14'
9	1.00'	148°12'32"	3.51	2.59'
10	2.00'	141°18'26"	5.70	4.93'
11	2.00'	53°16'50"	1.00	1.86'
12	48.00'	17°12'13"	7.26	14.41'
13	2.00'	141°18'26"	5.70	4.93'
14	2.00'	38°49'16"	0.70	1.36'
15	2.00'	176°28'28"	64.99	6.16'
16	500.00'	3°31'32"	15.39	30.77'



SECTION A - A

NOT TO SCALE

BID SUBMITTAL

811 CALL BEFORE YOU DIG

PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_CD-1-CD-2.dwg
PLOT DATE: 12/8/2017 5:42:19 PM
CAD USER: JREGIER

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA 61589 9/30/19 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ____ DATE: ____

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

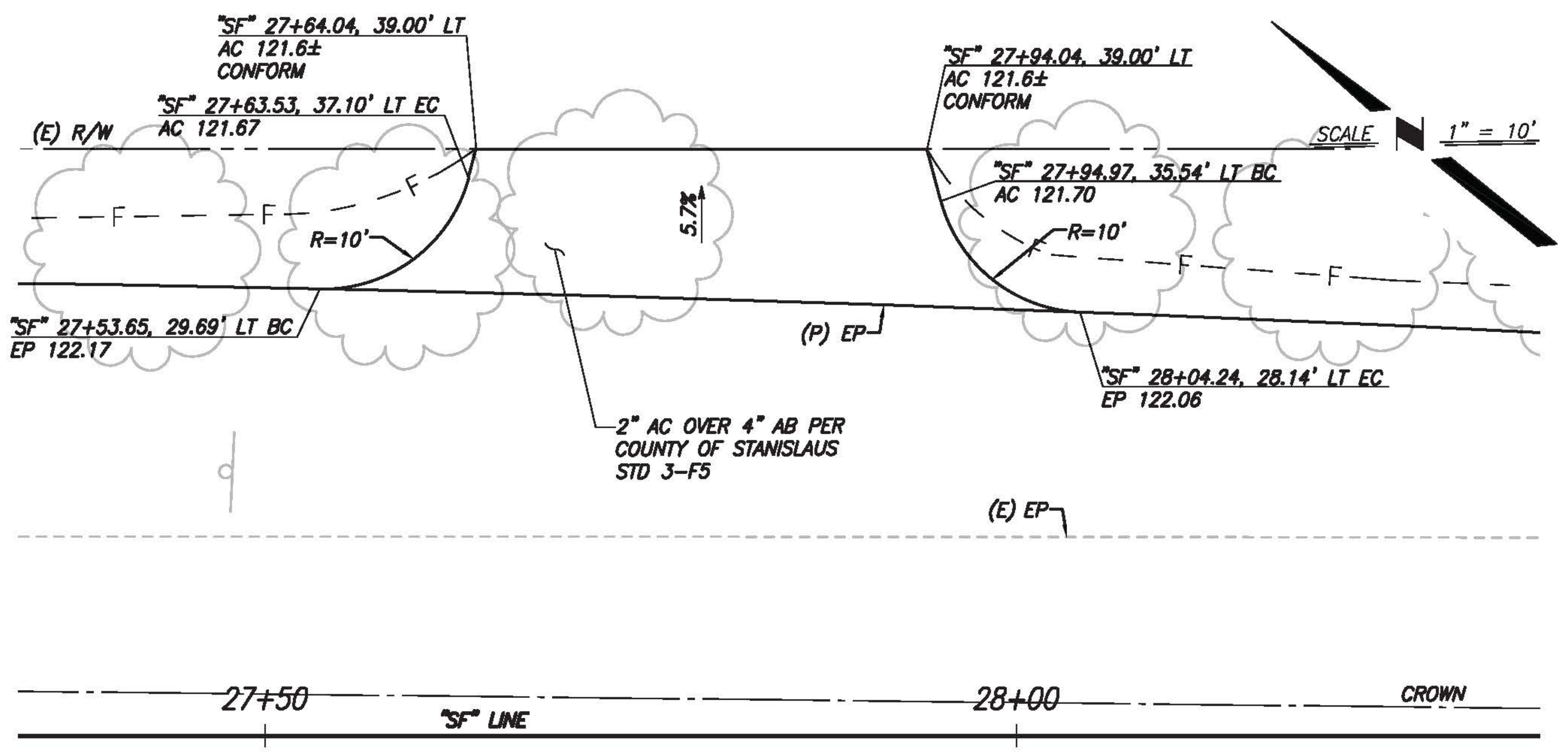
Stanislaus County Striving to be the best

NO	DESCRIPTIONS	DATE	APPROVED
	REVISIONS		

CONSTRUCTION DETAILS

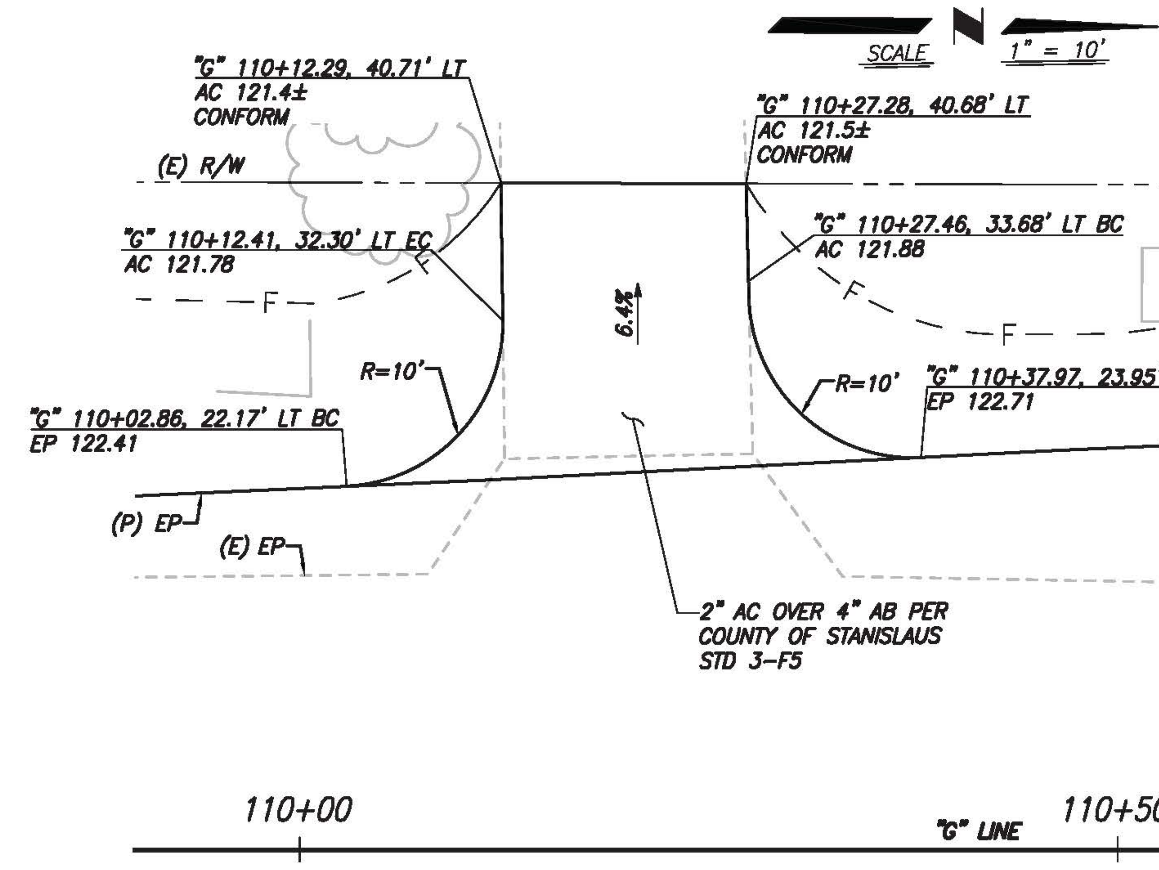
IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO	FN-15109
DATE	11-13-17
DR BY	JAR
CK BY	JML
SURVEY	
CONST.	
SCALE	



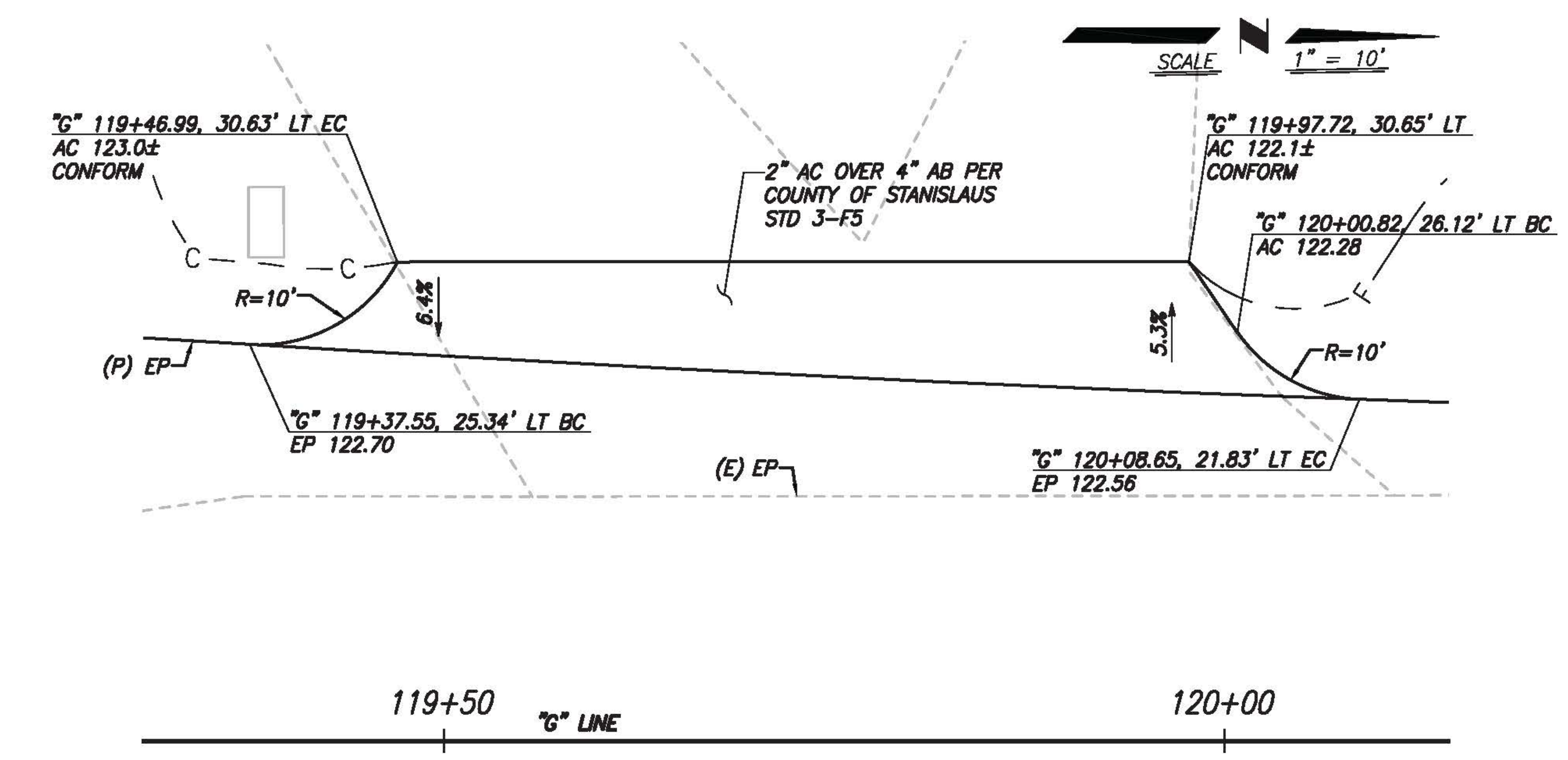
DRIVEWAY GRADING - SANTA FE AVENUE

SCALE: 1" = 10'



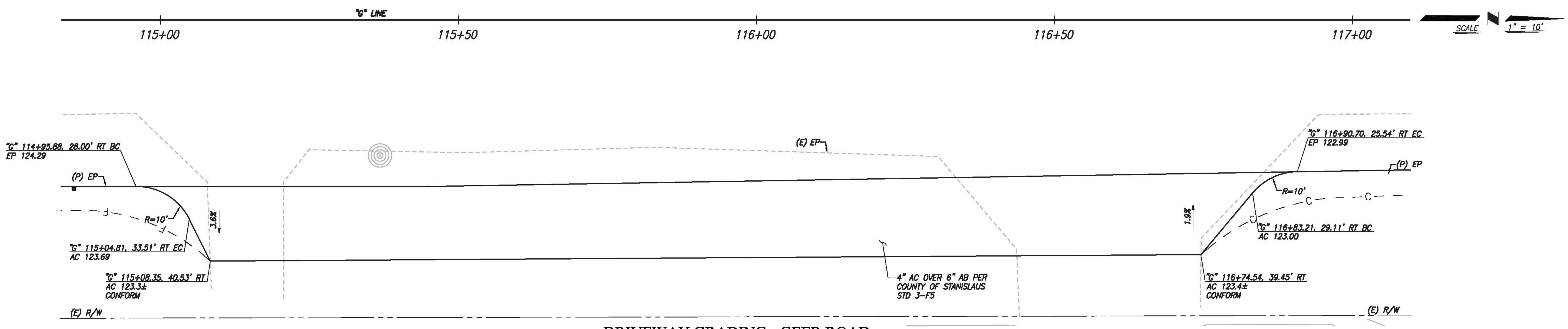
DRIVEWAY GRADING - GEER ROAD

SCALE: 1" = 10'



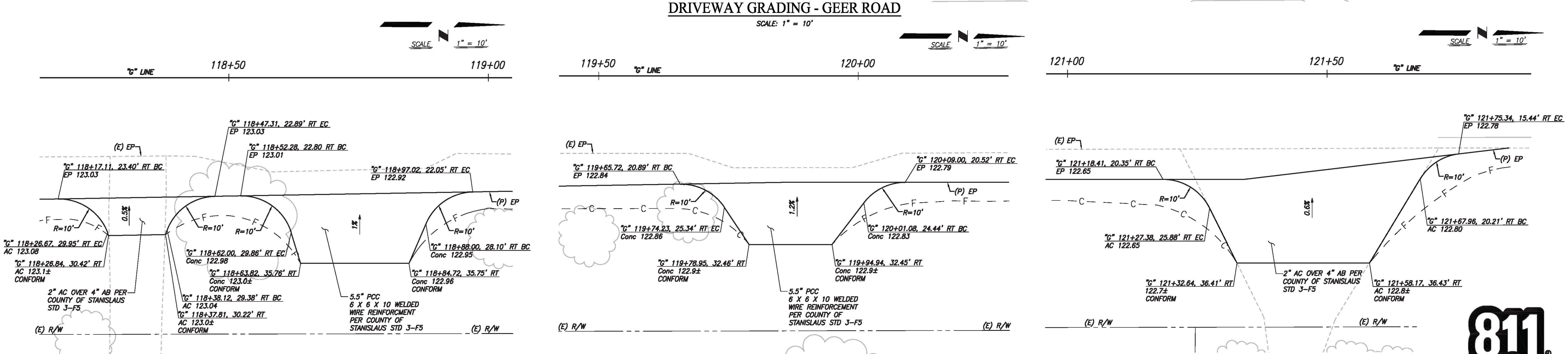
DRIVEWAY GRADING - GEER ROAD

SCALE: 1" = 10'



DRIVEWAY GRADING - GEER ROAD

SCALE: 1" = 10'



DRIVEWAY GRADING - GEER ROAD

SCALE: 1" = 10'

BID SUBMITTAL

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. NORIEGA
61594
6/30/19
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ______ DATE: ______

REVISIONS			
NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County
Striving to be the best

CONSTRUCTION DETAILS

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE
INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO	FN-15109
DATE	11-13-17
DR BY	JAR
CK BY	JML
SURVEY	
CONST.	
SCALE	

SHEET NUMBER
11
OF 21 SHEETS

PATH:J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_CD-1-CD-2.dwg PLOT DATE:11/28/2017 5:04:31 PM CAD USER: JREGLER

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 COUNTY OF STANISLAUS 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 BE RESPONSIBLE FOR ALL COORDINATION WITH TURLOCK IRRIGATION DISTRICT FOR IRRIGATION FACILITY IMPROVEMENTS PER TID STD CS 050C.
4. THE CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS PRIOR TO INSTALLATION.
5. FOR UTILITY CONTACT INFORMATION SEE SHEET 2.

ABBREVIATIONS:

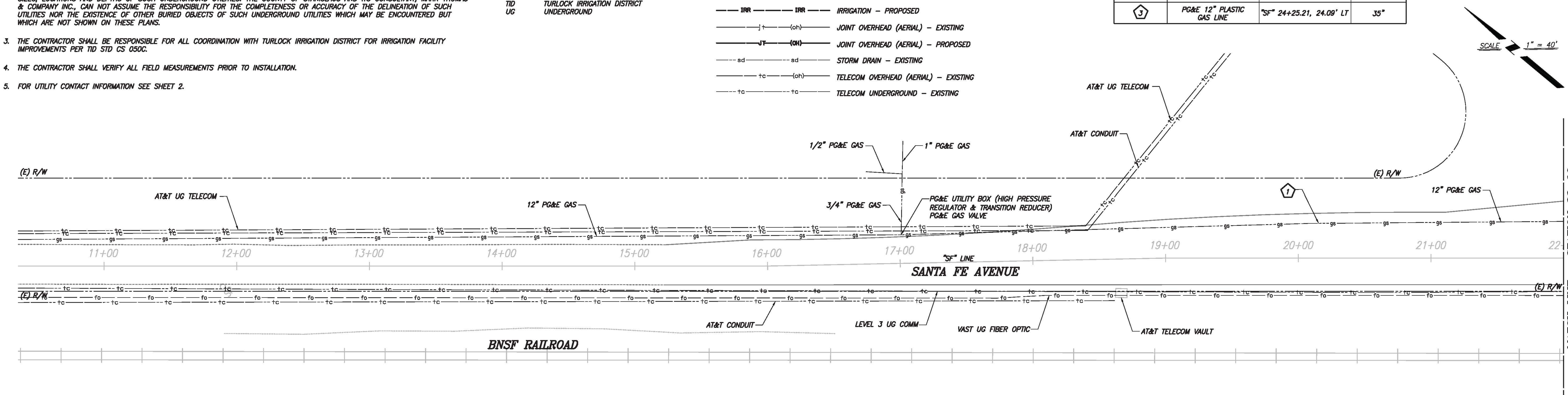
AT&T	AMERICAN TELEPHONE & TELEGRAPH
CVIN	CENTRAL VALLEY INDEPENDENT NETWORK
ETS	ELECTROLYSIS TEST STATION
MH	MANHOLE
OH	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC
TELECOM	TELECOMMUNICATIONS
TID	TURLOCK IRRIGATION DISTRICT
UG	UNDERGROUND

LEGEND:

e (oh)	ELECTRIC OVERHEAD (AERIAL) – EXISTING
fo fo	FIBER OPTIC UNDERGROUND – EXISTING
gs gs	GAS – EXISTING
irr irr	IRRIGATION – EXISTING
IRR IRR	IRRIGATION – PROPOSED
jt (oh)	JOINT OVERHEAD (AERIAL) – EXISTING
JT (OH)	JOINT OVERHEAD (AERIAL) – PROPOSED
sd sd	STORM DRAIN – EXISTING
tc (oh)	TELECOM OVERHEAD (AERIAL) – EXISTING
tc tc	TELECOM UNDERGROUND – EXISTING

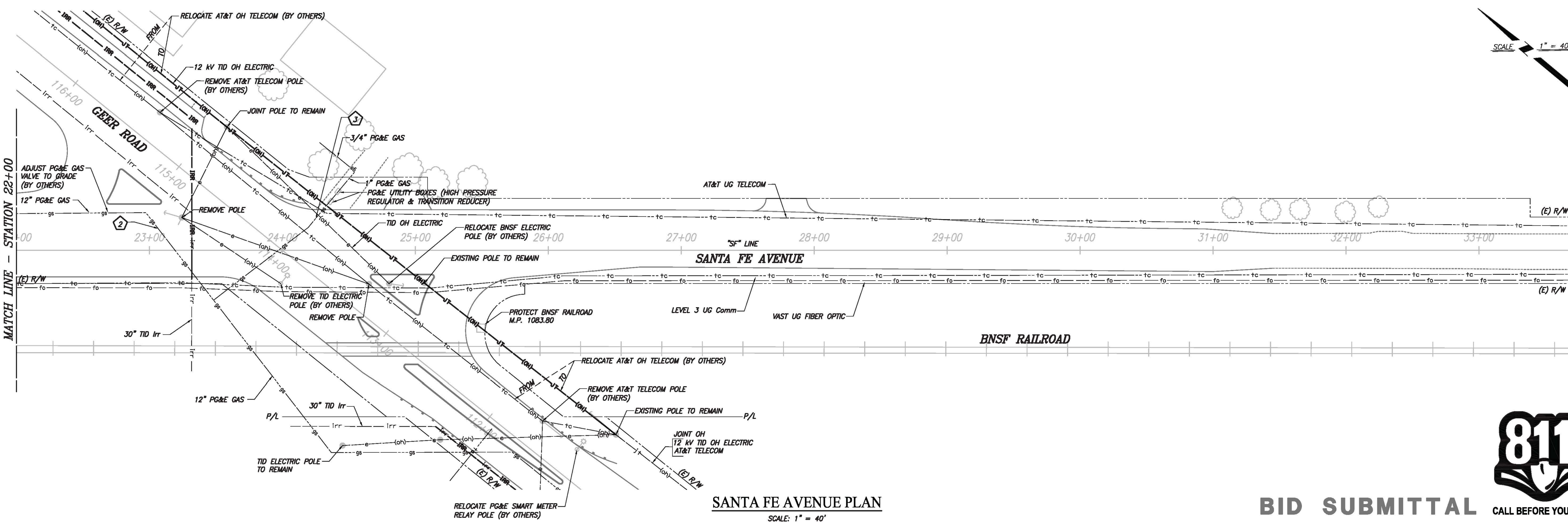
POTHOLING INFORMATION

No. #	UTILITY	LOCATION	DEPTH
1	PG&E 12" PLASTIC GAS TRANSMISSION LINE	"SF" 20+15.44, 26.16' LT	65"
2	PG&E 12" PLASTIC GAS TRANSMISSION LINE	"SF" 23+06.61, 16.38' LT	105"
3	PG&E 12" PLASTIC GAS LINE	"SF" 24+25.21, 24.09' LT	35"



SANTA FE AVENUE PLAN

SCALE: 1" = 40'



SANTA FE AVENUE PLAN

SCALE: 1" = 40'

BID SUBMITTAL

811 CALL BEFORE YOU DIG

PREPARED UNDER THE DIRECTION OF: DATE:

NO	DESCRIPTIONS	DATE	APPROVED
	REVISIONS		

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

Stanislaus County Striving to be the best

UTILITY PLAN

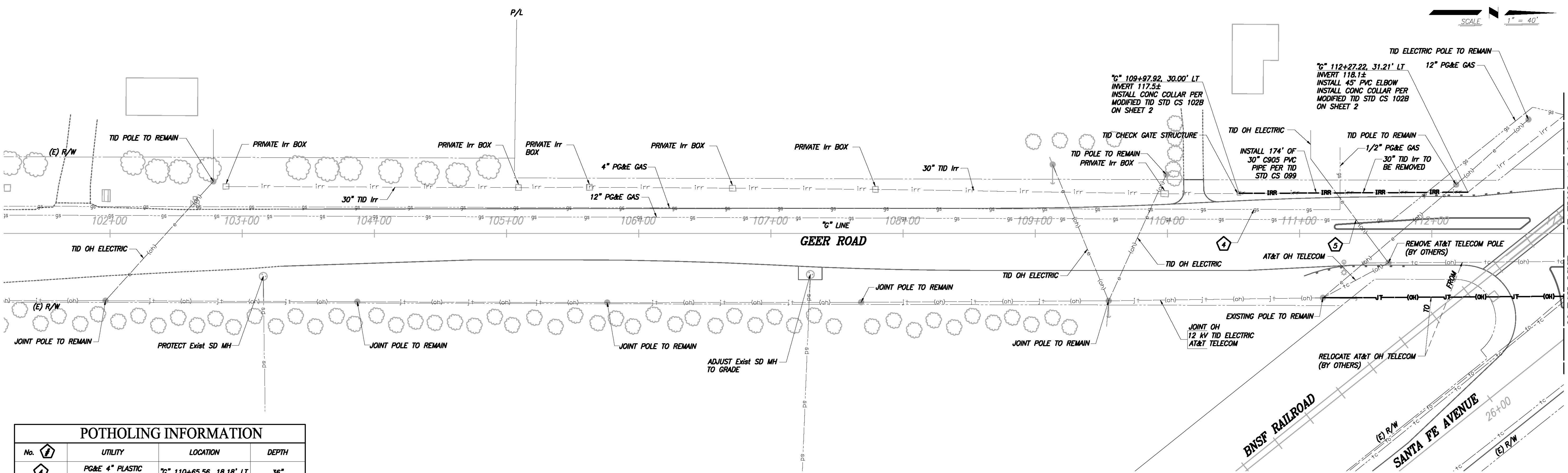
IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
DR BY JAR
CK BY JML
SURVEY
CONST.
SCALE

SHEET NUMBER 12 OF 21 SHEETS

PLOT DATE:12/8/2017 5:45:19 PM CAD USER: JREGLER

PATH:J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_U-1-U-3.dwg

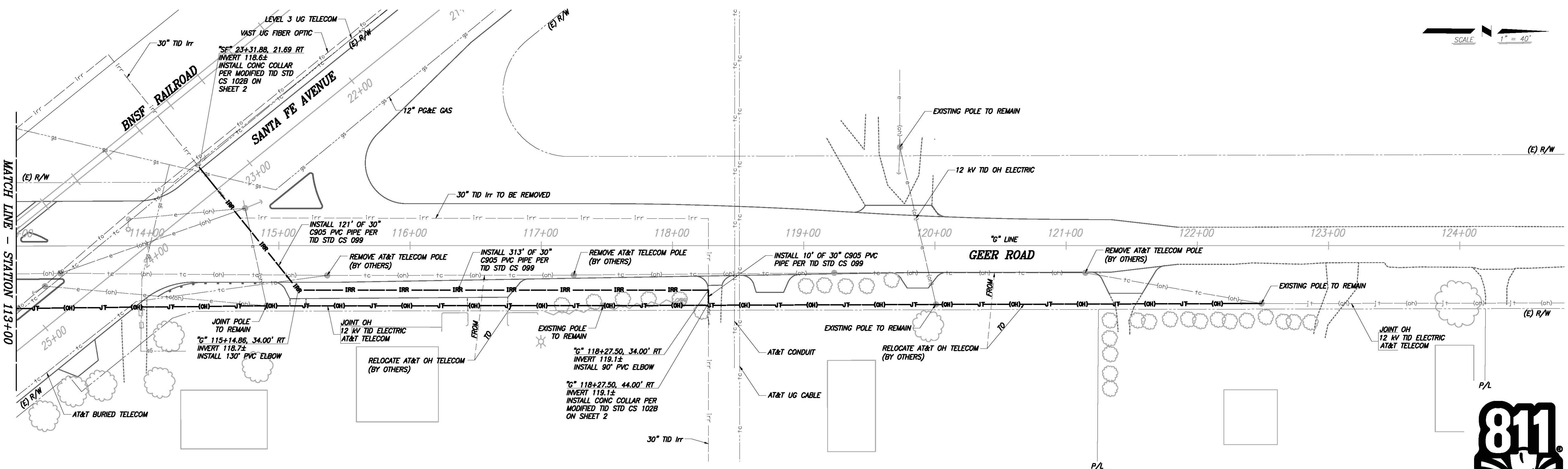


POTHOLING INFORMATION

No.	UTILITY	LOCATION	DEPTH
4	PG&E 4" PLASTIC GAS LINE	"G" 110+65.56, 18.18' LT	36"
5	PG&E 12" PLASTIC GAS TRANSMISSION LINE	"G" 111+42.73, 10.40' LT	61"

GEER ROAD PLAN

SCALE: 1" = 40'



GEER ROAD PLAN

SCALE: 1" = 40'

BID SUBMITTAL

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA 61599 6/30/19 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ______ DATE: ______

NO	DESCRIPTIONS	DATE	APPROVED
	REVISIONS		

STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

Stanislaus County Striving to be the best

UTILITY PLAN

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO	FN-15109
DATE	11-13-17
DR BY	JAR
CK BY	JML
SURVEY	
CONST.	
SCALE	

SHEET NUMBER 13 OF 21 SHEETS

CAD USER: JREGLER PLOT DATE: 12/14/2017 8:34:46 AM

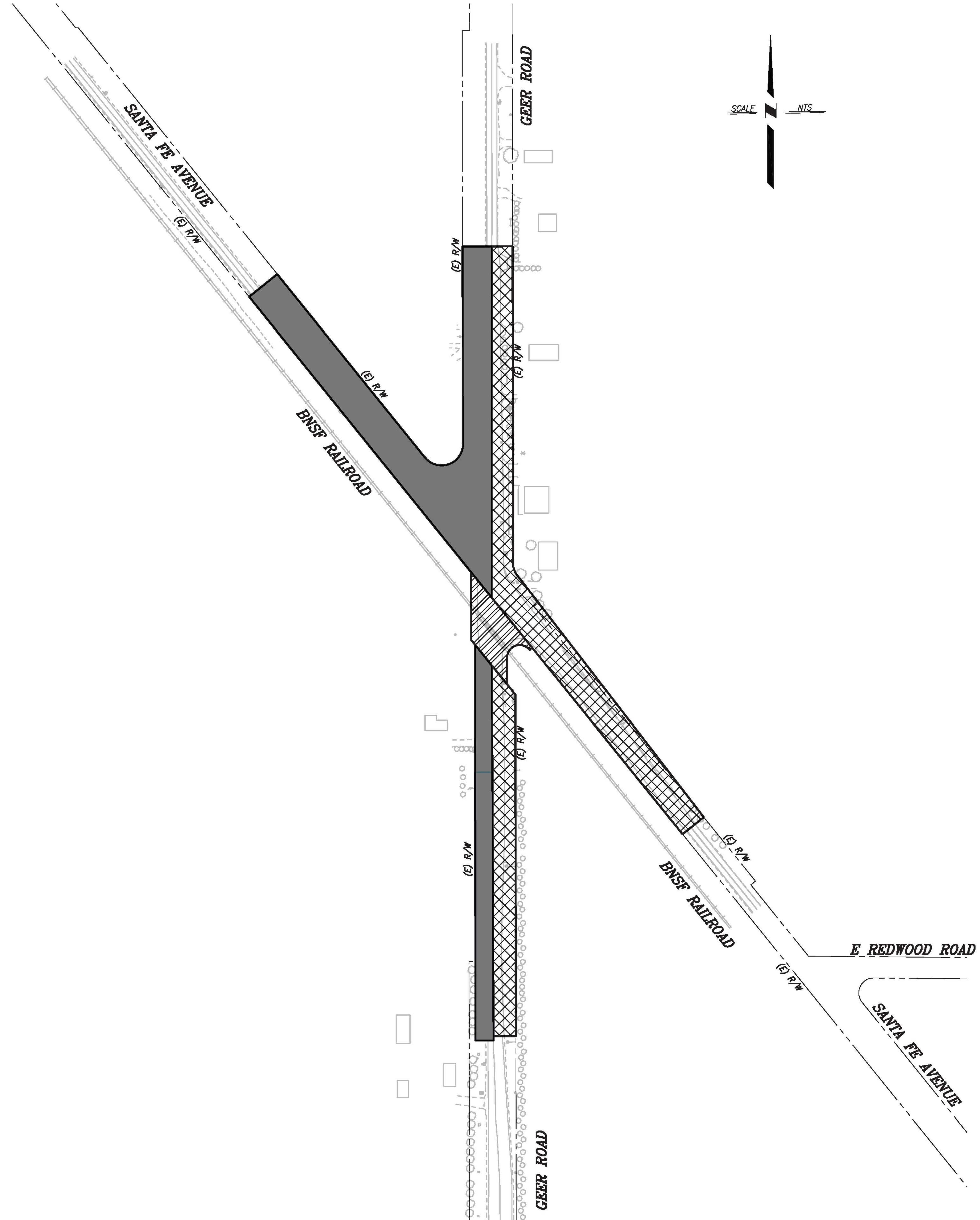
PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_U-1-U-3.dwg

GENERAL NOTES

1. TRAFFIC CONTROL SHOWN ON PLANS, INCLUDING LOCATIONS OF CONSTRUCTION AREA SIGNS, ARE APPROXIMATE AND INTENDED TO BE UTILIZED FOR STAGING PURPOSES ONLY. ALL TRAFFIC CONTROL SHALL BE APPROVED BY STANISLAUS COUNTY DEPARTMENT OF PUBLIC WORKS PRIOR TO CONSTRUCTION. ALL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. CONTRACTOR SHALL COORDINATE WITH BNSF RAILROAD DURING ALL PHASES OF CONSTRUCTION.
3. ALL TRAFFIC CONTROL SHALL CONFORM WITH THE MOST RECENT CALTRANS STANDARD PLANS AND THE CALIFORNIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. SEE SHEET 15 FOR CONSTRUCTION AREA SIGNS.
5. MEASURE L FUNDING SIGNS SHALL BE INSTALLED DURING CONSTRUCTION. LOCATIONS OF MEASURE L FUNDING SIGNS SHALL BE APPROVED BY THE ENGINEER. SEE SHEET 16 FOR MEASURE L FUNDING SIGN DETAILS.

LEGEND

- PHASE 1: COMPLETE PAVEMENT WORK ON WESTERN PROJECT LIMITS. USE TEMPORARY PAVEMENT TO ACCOMMODATE 2 LANES OF TRAFFIC ON GEER.
- PHASE 2: COMPLETE PAVEMENT WORK ON EASTERN PROJECT LIMITS. USE TEMPORARY PAVEMENT TO ACCOMMODATE 2 LANES OF TRAFFIC ON GEER ROAD.
- PHASE 3: FULL CLOSURE OF SOUTH LEG OF GEER ROAD TO BE COMPLETED WITH BNSF TRACK WORK. COMPLETE ELECTRICAL ITEMS. CONSTRUCT RAISED MEDIANS IN INTERSECTION.



STAGE CONSTRUCTION - PHASE PLAN

SCALE: NTS

BID SUBMITTAL

811 CALL BEFORE YOU DIG

PREPARED UNDER THE DIRECTION OF: ______ DATE: ______

NO	DESCRIPTIONS	DATE	APPROVED
	REVISIONS		

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County — Striving to be the best

STAGE CONSTRUCTION PLAN

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
DR BY JAR
CK BY JML
SURVEY
CONST.
SCALE

SHEET NUMBER 14 OF 21 SHEETS

PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_TH-1-TH-4.dwg PLOT DATE: 1/30/2018 7:55:01 AM CAD USER: JLOY

GENERAL NOTES

1. CONSTRUCTION AREA SIGNS SHOWN ON THIS SHEET IS TO BE IMPLEMENTED FOR PHASE 1 AND PHASE 2 OF CONSTRUCTION. CONTRACTOR TO COORDINATE AND RECEIVE APPROVAL FOR APPROPRIATE SIGNAGE FOR PHASE 3 FROM BNSF AND COUNTY OF STANISLAUS PRIOR TO PHASE 3. ALL SIGNAGE SHALL BE APPROVED BY THE ENGINEER.
2. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. ALL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL TRAFFIC CONTROL SHALL CONFORM WITH THE MOST RECENT CALTRANS STANDARD PLANS AND THE CALIFORNIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED TWO WEEKS PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO PROVIDE REASONABLE MEANS FOR PROPERTY OWNERS ADJACENT CONSTRUCTION TO ACCESS PROPERTIES AT ALL TIMES.
6. CONTRACTOR TO COORDINATE ANY DRIVEWAY CLOSURES WITH PROPERTY OWNERS BEFORE REMOVING ACCESS.

LEGEND

- PROJECT CONSTRUCTION AREA
- CONSTRUCTION AREA SIGN SINGLE POST
- TRAFFIC AREA DIRECTION
- CHANGEABLE MESSAGE SIGN (CMS)

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	EACH [N]
A	M4-8A	24"x18"	END DETOUR	2
B	M4-9(L)	30"x24"	DETOUR WITH ARROW (LEFT)	7
C	M4-9(R)	30"x24"	DETOUR WITH ARROW (RIGHT)	3
D	M4-10(R)	48"x18"	DETOUR ARROW (RIGHT)	2
E	M4-10(L)	48"x18"	DETOUR ARROW (LEFT)	1
F	R3-1	24"x24"	NO RIGHT TURN SYMBOL	2
G	R3-2	24"x24"	NO LEFT TURN SYMBOL	1
H	R11-2	48"x30"	ROAD CLOSED	2
I	R11-4	60"x30"	ROAD CLOSED TO THRU TRAFFIC	4
J	SC3(CA)	36"x12"	DETOUR WITH ARROW (STRAIGHT)	12
K	W20-1	36"x36"	ROAD WORK AHEAD	4
L	W20-2	36"x36"	DETOUR AHEAD	6
M	W20-3	36"x36"	ROAD CLOSED AHEAD	2
N	W24-1	36"x36"	CURVE AHEAD	2
O	W13-1P	24"x24"	25 MPH	2
P	CUSTOM	54"x36"	SB SANTA FE AVENUE CLOSED FOLLOW DETOUR	2
Q	CUSTOM	54"x36"	NB SANTA FE AVENUE CLOSED FOLLOW DETOUR	2
TOTAL				56

[N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

DETOUR CONSTRUCTION AREA SIGNS

SCALE: NTS

EDGAR A. NORIEGA No. 61535 Exp. 6/30/19 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: DATE:

REVISIONS			
NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

Stanislaus County Striving to be the best

CONSTRUCTION AREA SIGNS

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
DR BY JAR
CK BY JML
SURVEY
CONST.
SCALE

811 CALL BEFORE YOU DIG

BID SUBMITTAL

DESIGN NOTES:

1. THE BORDER OF THE SIGN SHALL BE BLACK.
2. MAIN TEXT USE 3" SERIES C TEXT.
3. DISPLAY MEASURE L LOGO AND STANISLAUS COUNTY LOGO WILL BE SUPPLIED TO THE MANUFACTURER UPON REQUEST. MEASURE L LOGO SIZE SHALL BE 27" X 13". COUNTY LOGO SIZE SHALL BE 9" X 10".
4. OVERALL SIGN SIZE SHALL NOT EXCEED 48" X 48".

FABRICATION NOTES:

1. COMPLY WITH ASTM TYPE II RETROFLECTIVE SHEETING (OR HIGHER GRADE) FOR ALL COLORS EXCEPT BLACK.
2. LEGEND AND ARTWORK MAY BE TRANSPARENT FILM, INK, OR APPLIED DECALS.
3. OVERLAY ENTIRE SIGN WITH PREMIUM GRADE GRAFFITI FILM.
4. COMPLY WITH RETROREFLECTIVE SHEETING MANUFACTURER'S RECOMMENDATIONS FOR TRANSPARENT FILM, INK, APPLIED DECALS, AND GRAFFITI FILM.

MEASURE L FUNDING SIGN

NTS

BID SUBMITTAL

811 CALL BEFORE YOU DIG

PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_TH-1-TH-4.dwg PLOT DATE: 11/13/2017 10:13:49 AM CAD USER: JREGIER

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 61555 Exp. 6/30/19 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ____ DATE: ____

REVISIONS			
NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

Stanislaus County Striving to be the best

MEASURE L FUNDING SIGN

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE
INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
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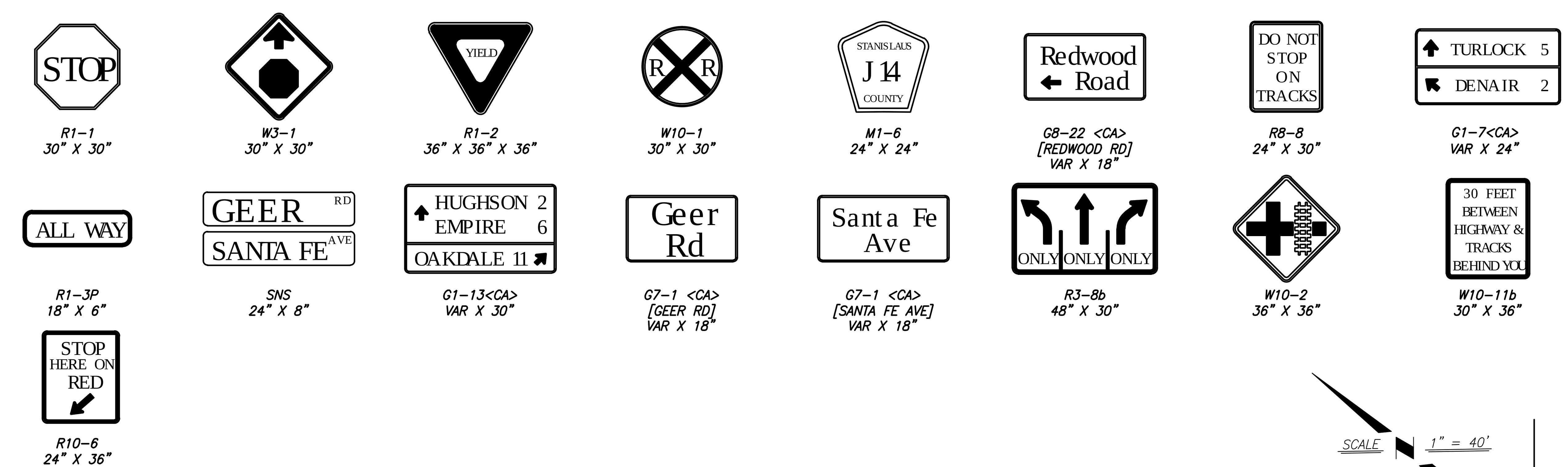
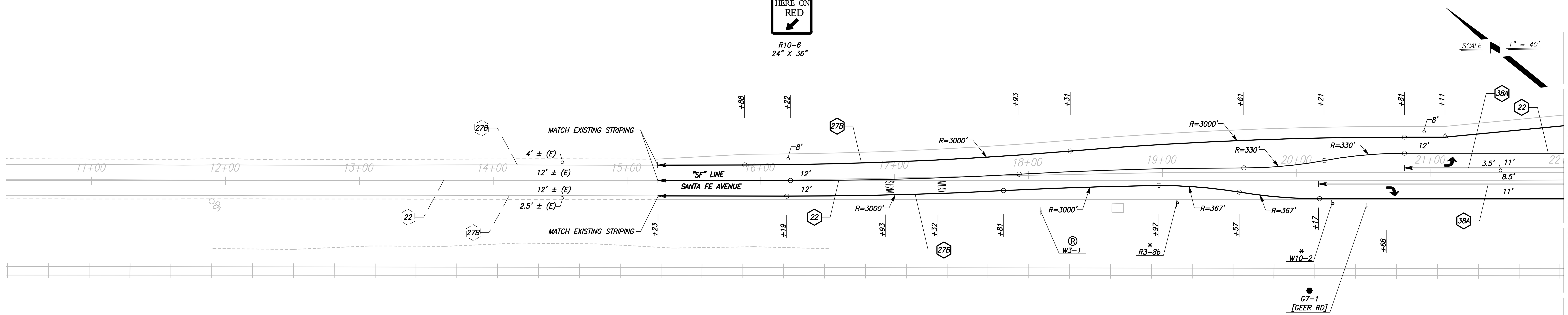
LEGEND

(LL)	12" WIDE WHITE LIMIT LINE
(YL)	YIELD LINE PER CALTRANS STD PLAN A24E
(#)	DENOTES PROPOSED DETAIL NUMBER PER CALTRANS STD PLANS
(#)	DENOTES EXISTING DETAIL NUMBER PER CALTRANS STD PLANS
	CHANGE IN TRAFFIC STRIPE
	TYPE IV (L) ARROW PER CALTRANS STD PLAN A24A
	TYPE IV (R) ARROW PER CALTRANS STD PLAN A24A
	RAILROAD CROSSING SYMBOL PER CLATRANS STD PLAN A24B
SNS	STREET NAME SIGN
	EXISTING ROADSIDE SIGN
	PROPOSED ROADSIDE SIGN
///	REMOVE EXISTING STRIPING AND MARKING (HAZARDOUS MATERIAL)
AHEAD	"AHEAD" MARKING PER CALTRANS STD PLAN A24D
SIGNAL	"SIGNAL" MARKING PER CALTRANS STD PLAN A24D
▲	EXISTING SIGN TO BE SALVAGED AND REPLACED
⬢	EXISTING SIGN TO REMAIN
■	EXISTING SIGN TO BE RESET
®	EXISTING SIGN TO BE REMOVED AND SALVAGED
*	INSTALL ROADSIDE SIGN

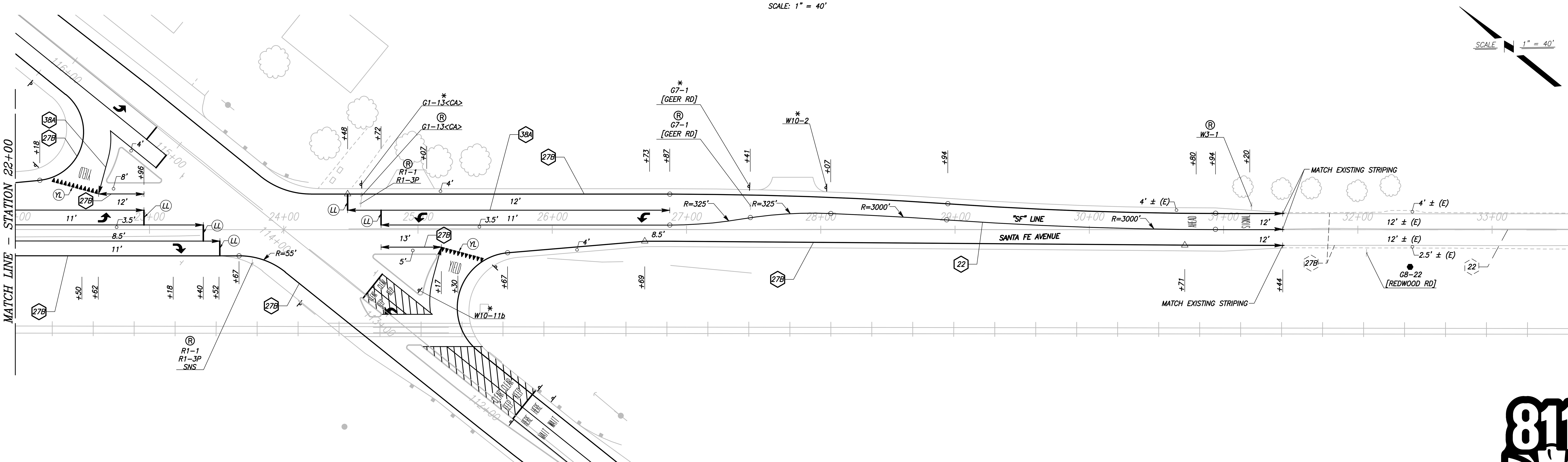
SIGN LEGEND





SANTA FE AVENUE PLAN

SCALE: 1" = 40'



SANTA FE AVENUE PLAN

SCALE: 1" = 40'

BID SUBMITTAL

811 CALL BEFORE YOU DIG

PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_SS-1-SS-3.dwg

PLOT DATE: 12/14/2017 8:48:15 AM CAD USER: JREGLER

PREPARED UNDER THE DIRECTION OF: DATE:

NO	DESCRIPTIONS	DATE	APPROVED
	REVISIONS		

EDGAR A. NORIEGA 61510 6/30/19 CIVIL — STATE OF CALIFORNIA — REGISTERED PROFESSIONAL ENGINEER

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County — Striving to be the best

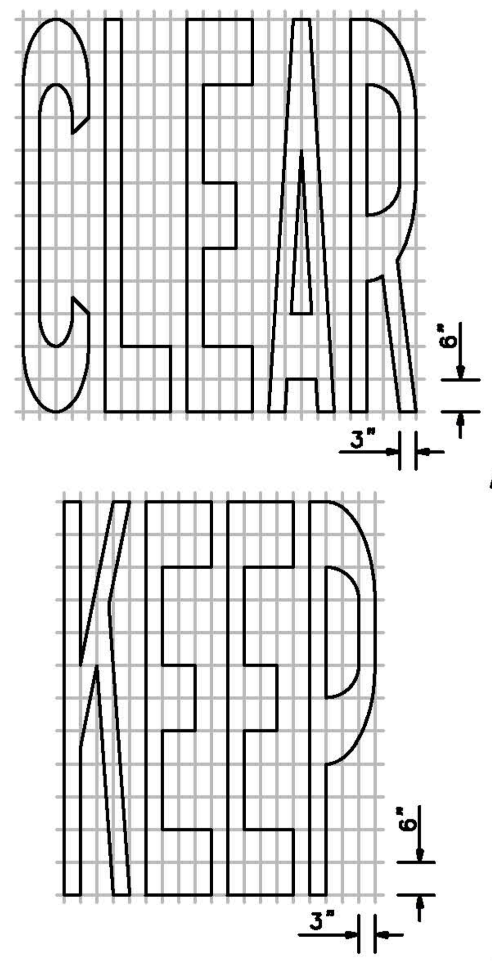
SIGNING AND STRIPING

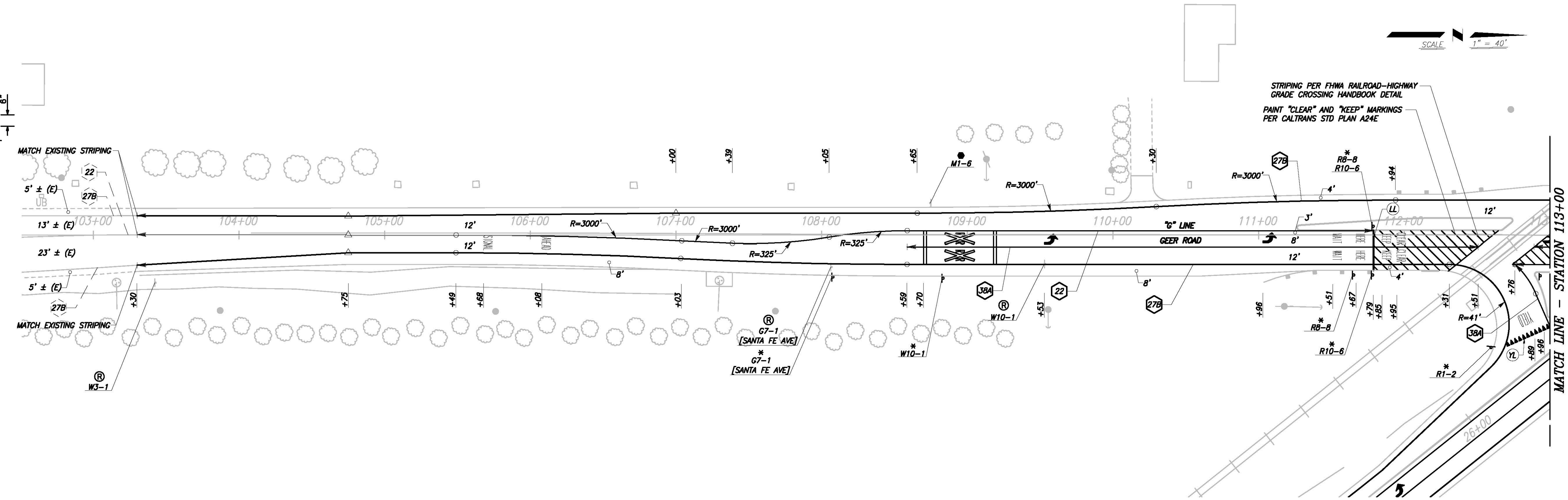
IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO	FN-15109
DATE	11-13-17
DR BY	JAR
CK BY	JML
SURVEY	
CONST.	
SCALE	

SHEET NUMBER 17 OF 21 SHEETS

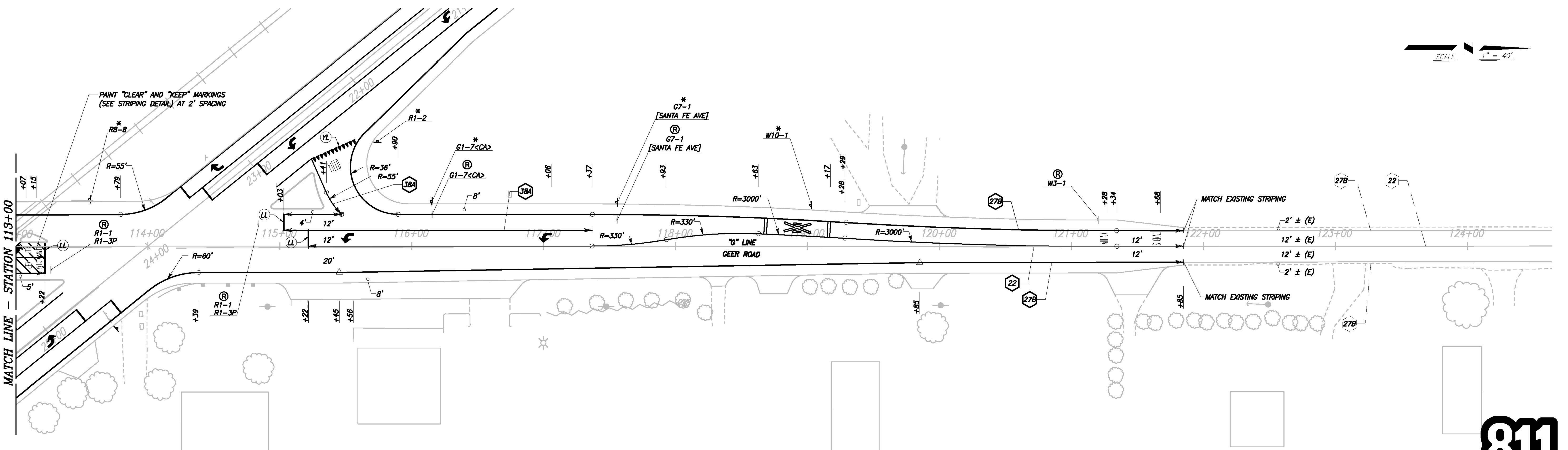
STRIPING DETAILS





GEER ROAD PLAN

SCALE: 1" = 40'



GEER ROAD PLAN

SCALE: 1" = 40'

BID SUBMITTAL

811 CALL BEFORE YOU DIG

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County — Striving to be the best

PREPARED UNDER THE DIRECTION OF:

DATE:

NO	DESCRIPTIONS	REVISIONS	DATE	APPROVED

SIGNING AND STRIPING

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO	FN-15109
DATE	11-13-17
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SURVEY	
CONST.	
SCALE	

SHEET NUMBER 18 OF 21 SHEETS

PATH: J:\Stanislaus County-FN-15109-CMAQ Geer and Santa Fe\CADD\Sheets\GSF_SS-1-SS-3.dwg
PLOT DATE: 12/14/2017 8:47:50 AM
CAD USER: JREGLER

TRAFFIC STRIPES AND PAVEMENT MARKINGS

LOCATION/STATION	DIRECTION	DETAIL No.	6" THERMOPLASTIC STRIPE WHITE SOLID	6" THERMOPLASTIC STRIPE YELLOW SOLID	8" WHITE SOLID THERMOPLASTIC STRIPE	THERMOPLASTIC PAVEMENT MARKING	DESCRIPTION/COMMENTS
			LF	LF	LF	SQFT	
"G" 103+30.00 TO 113+79.48	SB	27B	1050				
"G" 103+30.00 TO 111+78.82		22		837			
"G" 103+30.00 TO 112+30.88	NB	27B	902				
"G" 108+58.64 TO 112+50.84	NB	38A			392		
"G" 112+89.24 TO 113+22.08	NB	38A			33		
"G" 112+30.88 TO "SF" 25+66.65		27B	98				CHANNELIZED RIGHT TURN STRIPING
"G" 112+76.05 TO "SF" 25+17.31		38A			50		CHANNELIZED RIGHT TURN STRIPING
"G" 112+81.47, 115+43.51						48	2 YIELD PAVEMENT MARKINGS
"G" 112+76.05 TO 113+22.08	NB	27B	46				
"G" 111+78.82	NB	LL				27	
"G" 113+22.07	NB	LL				23	
"G" 114+38.63 TO 121+85.00	NB	27B	745				
"G" 115+21.64 TO 121+85.00		22		665			
"G" 115+02.93 TO 117+36.79	SB	38A			234		
"G" 115+02.93 TO 115+46.69	SB	27B	44				
"G" 115+21.62	SB	LL				12	
"G" 115+02.93	SB	LL				12	
"G" 115+89.58 TO "SF" 22+18.25		27B	86				CHANNELIZED RIGHT TURN STRIPING
"G" 115+46.69 TO "SF" 22+62.08		38A			49		CHANNELIZED RIGHT TURN STRIPING
"G" 115+89.58 TO 121+85.00	SB	27B	596				
"G" 113+79.48 TO "SF" 23+66.65		27B	37				
"G" 114+38.63 TO "SF" 24+20.25		27B	41				
"G" 109+52.91, 111+02.92, 112+96.00	NB					45	3 TYPE IV (L) ARROWS
"G" 115+55.70, 117+05.70	SB					30	2 TYPE IV (L) ARROWS
"G" 108+69.94	NB					232	2 RAILROAD CROSSING SYMBOLS
"G" 119+17.11	SB					118	RAILROAD CROSSING SYMBOL
"G" 106+07.95, 121+27.71						62	2 AHEAD PAVEMENT MARKINGS
"G" 105+67.91, 121+67.80						64	2 SIGNAL PAVEMENT MARKINGS
"G" 111+84.82, 113+07.07	NB					96	4 KEEP PAVEMENT MARKINGS
"G" 111+94.99, 113+15.07	NB					108	4 CLEAR PAVEMENT MARKINGS
"G" 111+66.92	NB					52	2 HERE PAVEMENT MARKING
"G" 111+50.92	NB					38	2 WAIT PAVEMENT MARKING
"G" 111+65.82 TO 113+22.07	NB					288	RAILROAD CROSSING STRIPING
"SF" 15+30.00 TO 22+18.25	NB	27B	697				
"SF" 15+30.00 TO 22+95.85		22		774			
"SF" 15+30.00 TO 23+66.65	SB	27B	845				
"SF" 20+80.85 TO 23+40.02	SB	38A			259		
"SF" 20+17.40 TO 23+52.40	SB	38A			335		
"SF" 22+62.08 TO 22+95.85	NB	27B	34				
"SF" 22+95.85	SB	LL				11	
"SF" 23+40.02	SB	LL				12	
"SF" 23+52.40	SB	LL				11	
"SF" 24+20.25 TO 31+45.00	NB	27B	725				
"SF" 24+47.53 TO 26+87.43	NB	38A			240		
"SF" 24+47.53	NB	LL				12	
"SF" 24+72.43	NB	LL				11	
"SF" 24+72.43 TO 31+45.00		22		674			
"SF" 24+72.43 TO 25+17.31	SB	27B	45				
"SF" 25+66.65 TO 31+45.00	SB	27B	579				
"SF" 21+10.85, 22+61.80	SB					30	2 TYPE IV (L) ARROWS
"SF" 25+06.78, 26+72.47	NB					30	2 TYPE IV (L) ARROWS
"SF" 20+67.62, 23+17.62	SB					30	2 TYPE IV (R) ARROWS
"SF" 17+32.06, 30+79.56						62	2 AHEAD PAVEMENT MARKINGS
"SF" 16+93.09, 31+19.60						64	2 SIGNAL PAVEMENT MARKINGS
"SF" 22+27.31 TO 22+61.12						36	YIELD LINE
"SF" 25+17.79 TO 25+48.70						33	YIELD LINE

MIDWEST GUARDRAIL SYSTEM

STATION	SIDE	MGS (METAL POST)	ALTERNATIVE FLARED TERMINAL SYSTEM (AFTS)	END ANCHOR ASSEMBLY (EAA)
		LF	EA	EA
"G" 111+40.16 TO 111+77.66	Rt	37.5	1	1
"G" 111+93.99 TO 112+32.41	Lt	37.5	1	1

MINOR CONCRETE

STATION	STAN COUNTY VERTICAL CURB	STAN COUNTY DRIVEWAY APPROACH	MEDIAN ISLAND PAVING
	CY	CY	CY
"SF" 22+68.03 TO 23+09.10	3		7
"SF" 24+66.27 TO 25+14.10	4		9
"G" 111+26.17 TO 112+74.40	9		12
"G" 113+03.36 TO 113+23.87	1		1
"G" 118+52.35 TO 118+96.90		6	
"G" 119+65.72 TO 120+09.00		6	

SHOULDER BACKING

STATION	SIDE	SHOULDER BACKING
		LF
"G" 103+30.00 TO 111+15.17	Rt	786
"G" 103+30.00 TO 109+99.79	Lt	670
"G" 110+41.05 TO 111+85.91	Lt	145
"G" 115+99.94 TO 119+34.56	Lt	335
"G" 116+93.07 TO 118+14.24	Rt	122
"G" 118+99.90 TO 119+62.72	Rt	63
"G" 120+11.65 TO 121+85.00	Lt	174
"G" 120+12.00 TO 121+15.41	Rt	104
"SF" 15+23.00 TO 22+07.18	Lt	686
"SF" 15+23.00 TO 23+57.05	Rt	827
"SF" 24+31.03 TO 24+73.25	Lt	43
"SF" 25+15.25 TO 27+50.65	Lt	236
"SF" 28+07.24 TO 31+45.00	Lt	338
"SF" 25+77.46 TO 31+45.00	Rt	568

ROADWAY QUANTITIES

STATION	HMA (TYPE A)	AB (CLASS II)	FDR
	TON	CY	SQFT
"G" 103+30.00 TO 108+35.00	654	138	
"G" 108+35.00 TO 112+00.00	763		17,887
"G" 112+00.00 TO 113+60.00	428	290	
"G" 113+60.00 TO 115+96.94 "SF" 22+10.17 TO 25+74.48	1279		30,005
"G" 115+96.94 TO 117+00.00	256		6,004
"G" 117+00.00 TO 121+85.00	799	297	
"SF" 15+23.00 TO 22+10.17	1340		31,440
"SF" 25+74.48 TO 31+45.00	939		22,029

IRRIGATION QUANTITIES

STATION	SIDE	30" C905 PVC PIPE	CONC COLLAR PER TID STD CS102B	PVC ELBOW	
		LF	EA	90°	130°
"SF" 23+31.88 TO "G" 115+14.86	Rt	121	1		1
"G" 115+14.86 TO 118+27.50	Rt	313		1	
"G" 118+27.50	Rt	10	1		
"G" 109+97.92 TO 112+27.22	Lt	174	2		

BID SUBMITTAL

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. NORIEGA
No. 61555
Exp. 6/30/19
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ____ DATE: ____

REVISIONS			
NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

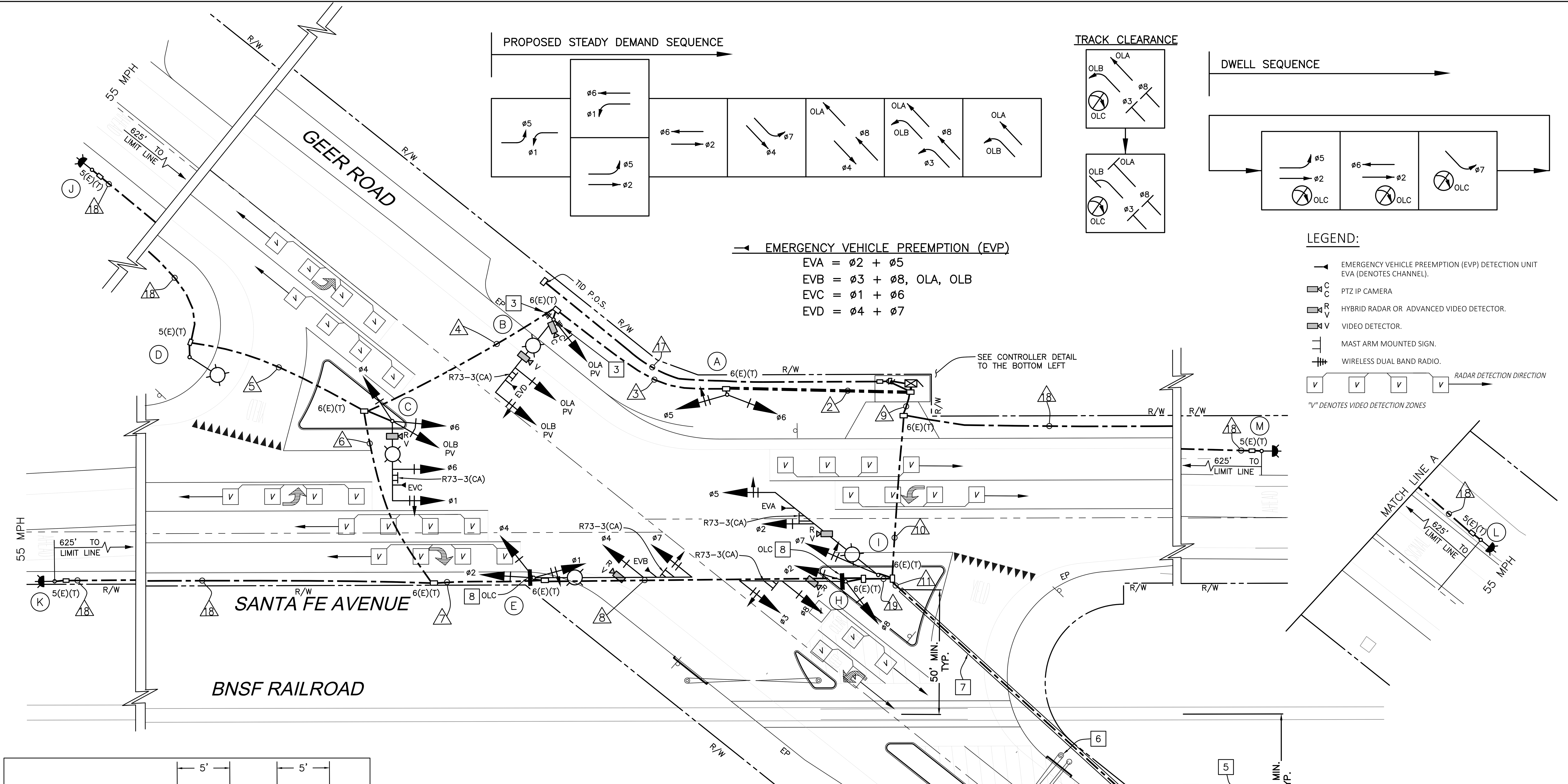
Stanislaus County
Striving to be the best

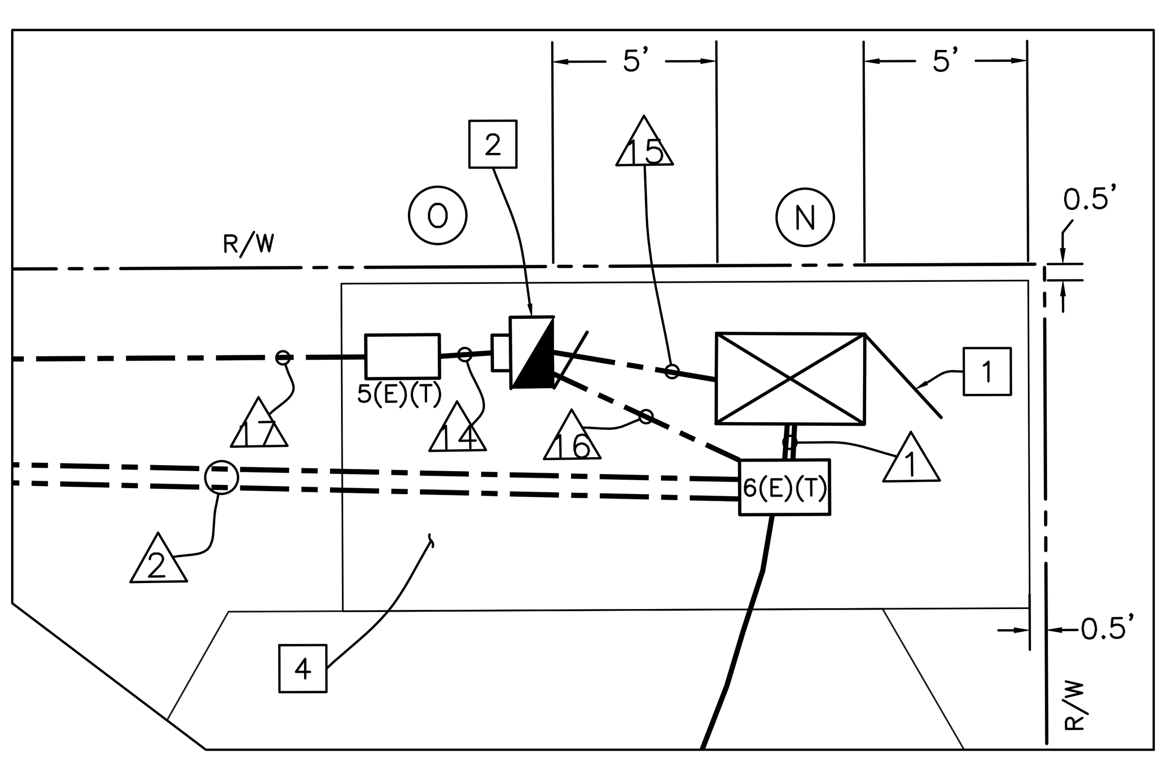
SUMMARY OF QUANTITIES

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE
INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 11-13-17
DR BY JAR
CK BY JML
SURVEY
CONST.
SCALE NTS

SHEET NUMBER 19 OF 21 SHEETS



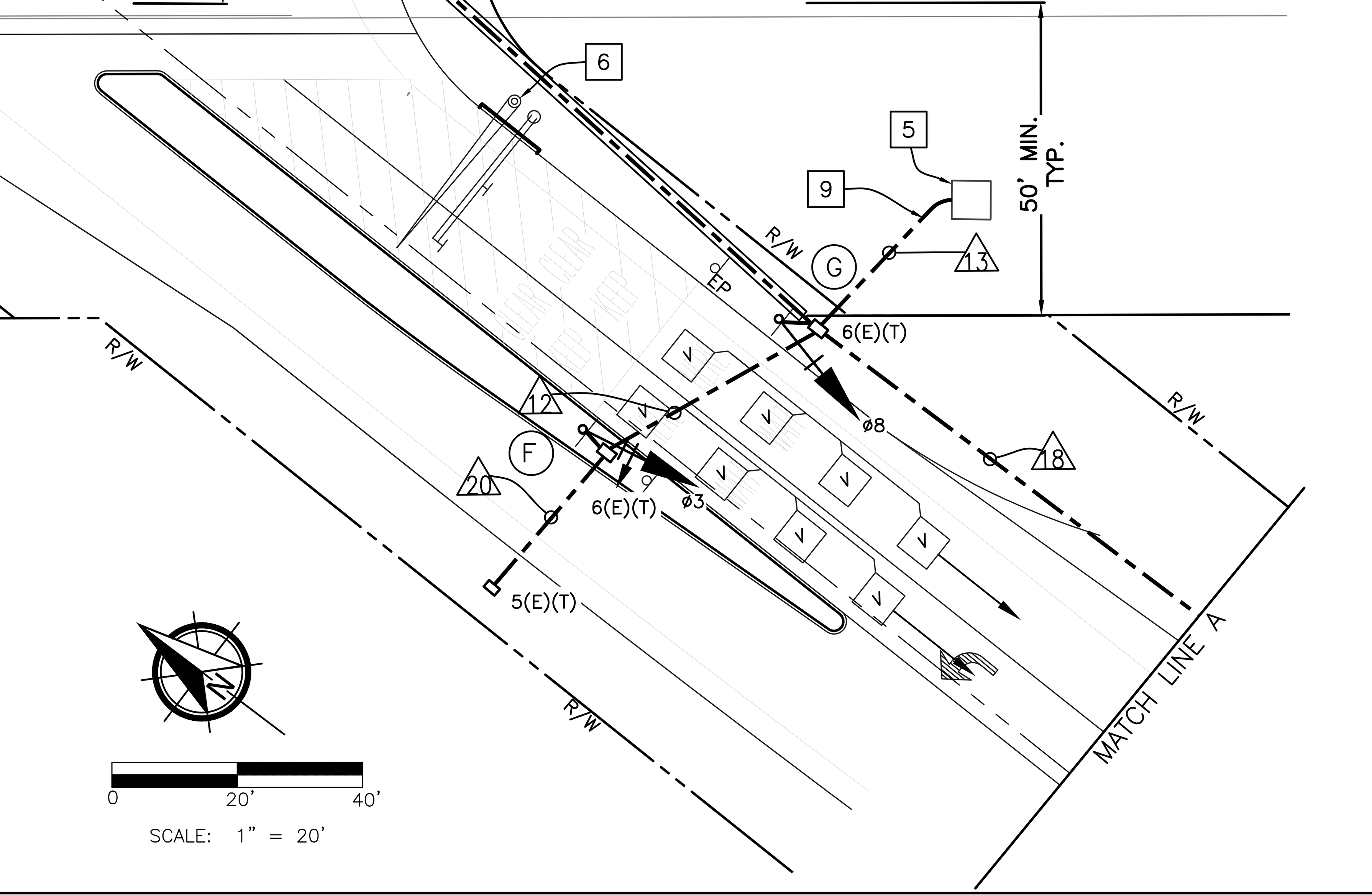


CONTROLLER DETAIL

NOT TO SCALE

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL TYPE 332L CONTROLLER CABINET. FRONT DOORS SHALL FACE SOUTH-EAST.
2. INSTALL TYPE III-AF SERVICE ENCLOSURE AND INTEGRATED PHOTOELECTRIC SENSOR UNIT. (BBS SERVICE TESCO 27-22 OR APPROVED EQUAL). FRONT DOOR SHALL FACE EAST.
3. MOUNT BROADBAND DUAL RADIO UNIT ON TOP OF POLE.
4. INSTALL 21' x 10' x 4": CONCRETE PAD FOR CONTROLLER ASSEMBLY AND SERVICE EQUIPMENT ENCLOSURE.
5. PROPOSED RAILROAD INSTRUMENT HOUSE BY OTHERS.
6. PROPOSED RAILROAD GATE BY OTHERS.
7. FURNISH AND INSTALL 3" TYPE I CONDUIT IN 4" GALVANIZED STEEL RIGID METALLIC CASING PER BNSF RAILWAY STANDARDS AND SPECIFICATIONS. CASING SHALL BE A MINIMUM OF 30 FEET FROM THE CENTERLINE OF THE TRACK IN A CROSS SECTION VIEW OF THE TRACKS. CASING SHALL BE INSTALLED NO LESS THAN 5.5 FEET BELOW THE TIE OF THE RAIL AND SHALL BE INSTALLED USING JACKING OR DRILLING METHODS ONLY.
8. FURNISH AND INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN.
9. TERMINATE CONDUIT 3 FEET WEST OF RAILROAD CONTROLLER. COORDINATE WITH BNSF TO CONNECT CONDUIT AND CABLING TO RAILROAD CONTROLLER.



SCALE: 1" = 20'

CALL BEFORE YOU DIG

PLOT DATE: 12/13/2017 4:47:32 PM

CAD USER: AMIAO

PATH: Z:\01 Projects\022 Stanislaus County\022-003 Geer at Santa Fe\102% Submittal\Santa Fe 12062017.dwg

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp: 06/30/18 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: DATE:

NO	DESCRIPTIONS	DATE	APPROVED
	REVISIONS		

STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

Stanislaus County — Striving to be the best

JLB Traffic Engineering, Inc.
Traffic Engineering, Transportation Planning & Parking Solutions
1300 E. SHAW AVE., STE. 103
FRESNO, CA 93710
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

IMPROVEMENT PLANS FOR:

GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS

STANISLAUS COUNTY, CALIFORNIA

JOB NO	FN–15109
DATE	12/13/17
DR BY	JR/AM
CK BY	JLB
SURVEY	
CONST.	
SCALE	1"=20'

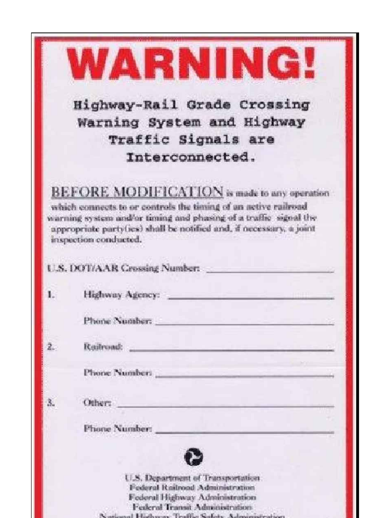
CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE: 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			2-4"	2-4"	4"	4"	2"	4"	4"	4"	4"	4"	3"	3"	2"	2"	2"	2"	3"	2"	4"	4"
CONDUIT FILL			15%	10%	17%	14%	9%	8%	7%	1%	15%	15%	9%	3%	7%	10%	8%	9%	6%	5%	6%	1%
5 COND. CABLE (VEH.) *	A	5,6 / -	2	2																		
	B	OLA OLB / -	2	2	2																	
	C	1,4,6 OLB / -	4	4	4	4																
	E	1,2,4,7 OLC / -	5	5	5	5		5	5													
	F	3 / -	1								1	1	1	1								
	G	8 / -	1								1	1	1									
3 COND. CABLE (PED.) *	H	2,3,8 OLC / -	4								4	4									4	
	I	2,5,7 / -	3								3	3										
TOTAL			22	13	11	9		5	5		9	9	2	1							4	
# 2	SERVICE																		3			
# 4	SIGNALS															3	2					
# 8	BEACON			2	2	2	2	2			2	2	2					2		2		
# 8	SAFETY LIGHTS			2	2	2	2	2	2		2	2						2				
# 8	GROUND		1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1
6-PAIR SIC	RR INTERCONNECT		1								1	1	1		1							
EVP CABLE 3#20	EVA (E/B)		1								1	1										
	EVB (S/B)		1	1	1	1		1	1													
	EVC (W/B)		1	1	1	1																
	EVD (N/B)		1	1	1																	
SIAMESE COAX/3#16			5	2	2	1				1	3	3									2	
SHIELDED CAT6			2	2	2																	

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL CONDUCTORS ARE NEW UNLESS OTHERWISE INDICATED WITH "( )".

GENERAL NOTES:

1. SHEETS 20 AND 21 ARE ACCURATE FOR ELECTRICAL WORK ONLY.
2. SCHEDULING OF WORK SHALL CONFORM TO THE PROVISIONS IN SECTION 86-1.07, "SCHEDULING OF WORK" OF THE STATE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. PARTICULAR ATTENTION SHALL BE DIRECTED TO "NO ABOVE GROUND WORK, EXCEPT SERVICE EQUIPMENT SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT."
3. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL ESTABLISH THE LOCATIONS OF ALL TRAFFIC SIGNAL RELATED FACILITIES, INCLUDING TRAFFIC SIGNAL POLES. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL ARRANGE FOR THE RESIDENT ENGINEER TO VERIFY THAT THE LOCATIONS OF THE TRAFFIC SIGNAL POLES MATCH THOSE INDICATED ON THE PLANS AND TO APPROVE LOCATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS AND SHALL PROVIDE PROTECTION PRIOR TO, DURING, AND AFTER TRENCHING, JACKING AND/OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), TOLL FREE AT 811, AT LEAST 2 WORKING DAYS BEFORE BEGINNING WORK.
5. CONDUIT INSTALLATION ACROSS EXISTING ROADWAYS SHALL BE BY JACKING AND DIRECTIONAL DRILLING METHODS.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, AND CONDUITS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST 2 WORKING DAYS PRIOR TO COMMENCING WORK TO VERIFY THE MARKED LOCATIONS. THE CONTRACTOR SHALL COORDINATE WITH COUNTY AND RAILROAD PRIOR TO INSTALLATION.
7. PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A 1 FOOT WIDE BY 6" THICK CONCRETE COLLAR.
8. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
10. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES.
11. SEAL CONDUITS WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
12. CONTRACTOR SHALL ADJUST NEW TRAFFIC SIGNAL POLES AND VEHICLE INDICATIONS TO AVOID BLOCKING ANY RAILROAD FLASHING SIGNALS. CONTRACTOR SHALL BE RESPONSIBLE FOR AND TO RAILROAD TO ENSURE THE PRE-SIGNAL EQUIPMENT DOES NOT CONFLICT WITH THAT OF BNSF. FIELD CONFIRM WITH RAILROAD STAFF PRIOR TO INSTALLATION.
13. THE ADVANCED PREEMPTION INTERCONNECTION SHALL BE CONFIGURED AS A "SUPERVISED" CIRCUIT. A SIMULTANEOUS PREEMPTION INTERCONNECTION CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. CONTRACTOR SHALL WORK WITH RAILROAD, AND BE RESPONSIBLE FOR APPROVAL, TO CONNECT TO THE SIMULTANEOUS PREEMPTION CIRCUIT. A "GATE-DOWN" CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. THE RAILROAD WILL PROVIDE THE GATE DOWN CIRCUIT FOR CONNECTION TO THE TRAFFIC SIGNAL CONTROLLER AS PART OF THE RAILROAD'S STANDARD DESIGN. A TRAFFIC SIGNAL HEALTH CIRCUIT SHALL BE IMPLEMENTED INTO THE SIGNAL CONTROLLER. CONTRACTOR SHALL COORDINATE WITH BNSF RAILWAY TO DETERMINE THE VOLTAGE REQUIRED FOR EACH OF THESE CIRCUITS PRIOR TO FINALIZING SUBMITTALS FOR THE SIGNAL CONTROLLER CABINET EQUIPMENT.
14. CONTRACTOR SHALL INSTALL THE FOLLOWING WARNING LABEL WITHIN THE TRAFFIC SIGNAL CONTROLLER CABINET:
    - IF THE TRAFFIC SIGNAL ENTERS FLASHING MODE, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF ROADWAY USERS OVER THE GRADE CROSSING.
    - IF THE TRAFFIC SIGNAL LOSES POWER OR ALL OF THE SIGNALS ARE DARK, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF THE ROADWAY USERS OVER THE GRADE CROSSING.
    - NOTIFY THE RAILROAD ONCE THE SIGNAL SYSTEM HAS BEEN RESTORED TO NORMAL OPERATION.
    - IF SIGNAL MAINTENANCE IS REQUIRED TO PERFORM A JOINT TEST OF THE PREEMPTION SYSTEM, NOTIFY THE RAILROAD.
15. CONTRACTOR SHALL INSTALL WARNING LABEL WITHIN CONTROLLER CABINET AS RECOMMENDED IN THE USDOT HIGHWAY RAIL GRADE CROSSING TECHNICAL WORKING GROUP RECOMMENDATIONS TO ALERT TRAFFIC SIGNAL TECHNICIANS TO THE PRESENCE OF THE INTERCONNECTION WITH THE RAILROAD. SEE SAMPLE TO THE RIGHT.



EQUIPMENT SCHEDULE

No.	STANDARD: Type	Sig. M.A.	Lum.M.A.	VEH SIG MTG: Mast Arm	Pole	PED SIGNAL: Ø	MTG	PPB: Ø	ARROW	HPS EQUIV. LUMINAIRE WATTAGE	EV PREEMPT	SPECIAL REQUIREMENTS
A	1-A (10')	–	–	–	TV-2-T	–	–	–	–	–	–	
B	24-3-100	35'	12'	MAS MAS	SV-1-T	–	–	–	–	250W	EVB	INSTALL D3 "SANTA FE AVE" SIGN ON SIGNAL MAST ARM. 2 5 6 11
C	19-3-100	30'	12'	MAS MAS	SV-3-TB	–	–	–	–	250W	EVA	INSTALL D3 "GEER RD" SIGN ON SIGNAL MAST ARM. 2 5 9
D	15	–	–	–	–	–	–	–	–	250W	–	
E	61-5-100	60'	12'	MAS MAS	SV-1-T SV-3-T	–	–	–	–	250W	EVD	INSTALL D3 "SANTA FE AVE" SIGN ON SIGNAL MAST ARM. 2 5 6 10
F	1-A (10')	–	–	–	TV-1-T	–	–	–	–	–	–	
G	1-A (10')	–	–	–	TV-1-T	–	–	–	–	–	–	
H	27-4-100	40'	–	MAS MAS	SV-1-T SV-2-T	–	–	–	–	–	–	10
I	29-5-100	50'	12'	MAS MAS	SV-1-T	–	–	–	–	250W	EVC	INSTALL D3 "GEER RD" SIGN ON SIGNAL MAST ARM. 2 5
J	15-FBS	–	–	–	SV SV	–	–	–	–	–	–	8
K	15-FBS	–	–	–	SV SV	–	–	–	–	–	–	8
L	15-FBS	–	–	–	SV SV	–	–	–	–	–	–	8
M	15-FBS	–	–	–	SV SV	–	–	–	–	–	–	8
N	FURNISH AND INSTALL TYPE 332L CABINET AND PAD, AND ASSOCIATED EQUIPMENT. FRONT DOOR SHALL OPEN TO THE SOUTHEAST. REFER TO STATE STANDARD PLAN ES-3C FOR FOUNDATION DETAIL. COUNTY TO FURNISH ATC CONTROLLER 3											
O	FURNISH AND INSTALL SERVICE ENCLOSURE, TESCO TYPE 27-22 METERED PANEL WITH BBS SYSTEM OR APPROVED EQUAL 18" ABOVE FINISHED PAD. REFER TO STATE STANDARD PLAN ES-2D FOR EQUIPMENT LEGEND AND WIRING DIAGRAM. PROVIDE ITEMS 1-8, 10, 15-17, 20, 22, 23 1 4											

NOTES:
1. ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
2. ALL INDICATIONS SHALL BE 12" LED MODULES.
3. LUMINAIRES SHALL LED TYPE IN THE HPS EQUIVALENT WATTAGE SPECIFIED.
4. STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND 12" UPPERCASE 9" LOWERCASE, 4" BLOCK NUMBERS, 4" WIDE ARROWS, SERIES "D" TEXT ON TYPE XI DIAMOND GRADE SHEETING, 3M TYPE XI DG3 OR APPROVED EQUAL.
5. SERVICE POINT IS LOCATED APPROXIMATELY 220 FEET NORTHWEST OF THE CONTROLLER CABINET LOCATION. CONTRACTOR TO INSTALL CONDUIT SWEEP 18" ABOVE FINISHED GRADE AT POLE LOCATION. TID TO INSTALL SERVICE CONDUCTORS FROM SERVICE LOCATION TO TRAFFIC SIGNAL METER LOCATION.

LEGEND:

1 INSTALL 3" CONDUIT TO SERVICE POINT. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL COSTS AND APPLICATIONS ASSOCIATED WITH SERVICE INSTALLATION. COORDINATE INSTALLATION WITH TID. PULL BOXES SHALL BE MARKED "SIGNAL SERVICE".

2 INSTALL 2-EYE OPTICAL DETECTOR, TYPE 721 OR APPROVE EQUAL. INSTALL 6 FEET FROM END OF MAST ARM.

3 INSTALL ITERIS EDGE CONNECT OR APPROVED EQUAL VIDEO COMPRESSION AND COMMUNICATIONS DEVICE.

4 INSTALL INTEGRATED PHOTOELECTRIC SENSOR UNIT .

5 INSTALL R73-3(CA) SIGN ON SIGNAL MAST ARM.

6 INSTALL PROGRAMMABLE VISIBILITY HEADS ON THE MAST ARM MOUNTED SIGNAL HEADS TO ENSURE THAT VEHICLE SIGNAL HEADS ARE ONLY VISIBLE TO THE TRAFFIC ITS INTENDED FOR.

7 NOT USED.

8 INSTALL TYPE 15-FBS WITH W3-3 SIGN (36" x 36"), SIGN LIGHTING FIXTURE AND FLASHING BEACON CONTROL ASSEMBLY ON A SLIP BASE PER CALTRANS STANDARD ES-7J.

9 INSTALL PROGRAMMABLE VISIBILITY HEADS ON ALL OVERLAP PHASE SIGNAL HEADS TO ENSURE THAT VEHICLE SIGNAL HEADS ARE ONLY VISIBLE TO THE TRAFFIC ITS INTENDED FOR.

10 INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN.

11 INSTALL BROADBAND DUAL RADIO UNIT ON TOP OF POLE

CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/18 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: ______ DATE: ______

NO	REVISIONS: DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

Stanislaus County Striving to be the best

JLB Traffic Engineering, Inc.
1300 E. SHAW AVE., STE. 103
FRESNO, CA 93710
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

IMPROVEMENT PLANS FOR:
GEER RD AND SANTA FE AVE INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO FN-15109
DATE 12/13/17
DR BY JR/AM
CK BY JLB
SURVEY
CONST.
SCALE 1"=20'

CAD USER: AMIAO
PLOT DATE:12/13/2017 4:47:35 PM
PATH: Z:\01 Projects\022 Stanislaus County\022-003 Geer at Santa Fe\102% Submittal\Santa Fe 12062017.dwg