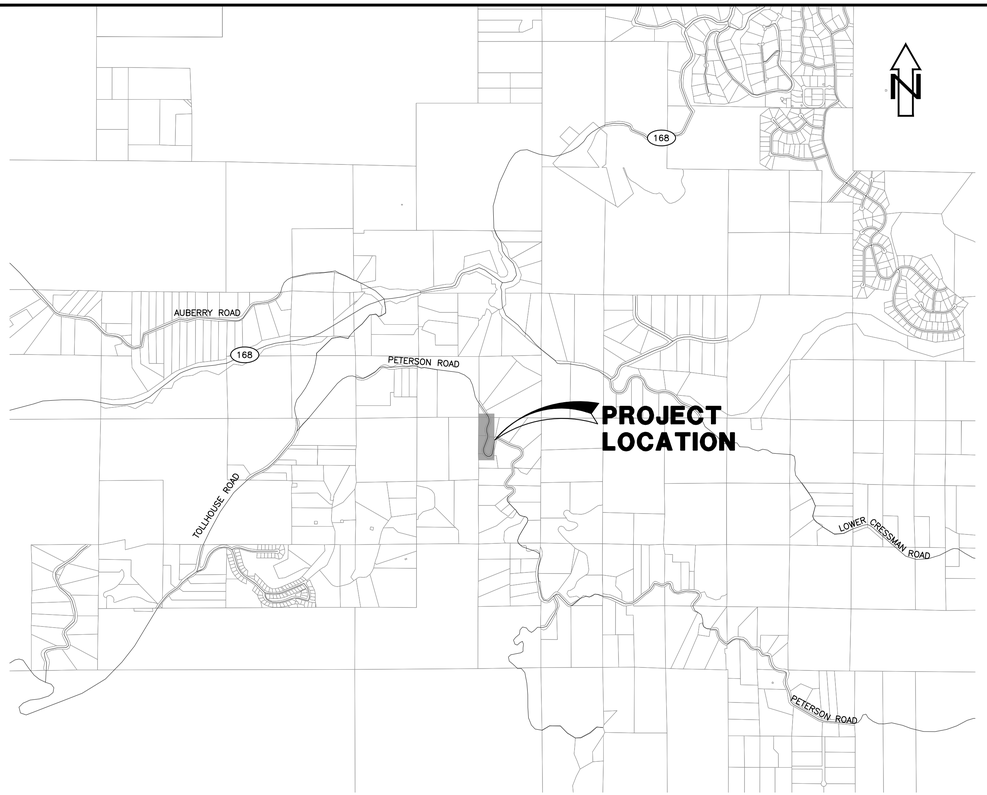
PLANS FOR CONSTRUCTION

PETERSON ROAD
REPAIRS AND IMPROVEMENTS



VICINITY MAP

NOT TO SCALE

SHEET LIST TABLE	
SHEET	SHEET TITLE
1	COVER SHEET AND NOTES
2	LEGEND AND SHEET INDEX MAP
3	TYPICAL SECTIONS AND DETILS
4	ROAD PLAN AND PROFILE – STA 11+00 TO 15+50
5	ROAD PLAN AND PROFILE – STA 15+50 TO 20+00
6	ROAD PLAN AND PROFILE – STA 20+00 TO 22+17.69
7	CROSS SECTIONS

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

Jean M. Rousseau
County Administrative Officer

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

CALIFORNIA CONTRACTOR'S LICENSES REQUIRED FOR THIS PROJECT					
CLASS A, GENERAL ENGINEERING					
C-12, EARTHWORK AND PAVING					
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
XXX	XXXX	N/A	#####	1	##
CONTRACT NO. ##############					

GENERAL NOTES

1. THE WORK EMBRACED HEREIN SHALL BE IN ACCORDANCE WITH THE APPROPRIATE PROVISIONS OF THE SPECIFICATIONS ENTITLED "IMPROVEMENT STANDARDS, COUNTY OF FRESNO, STATE OF CALIFORNIA, OCTOBER, 1966" AND AS AMENDED, INSOFAR AS THE SAME MAY APPLY.
2. ALL WORK INSTALLED SHALL MEET OR EXCEED COUNTY IMPROVEMENT STANDARDS. WHERE WORK PROPOSED IS NOT ADDRESSED WITH THESE STANDARDS, THE CONTRACTOR SHALL DEFER TO THE 2018 STATE STANDARD DRAWINGS AND SPECIFICATIONS AND AMENDMENTS FOR COMPLIANCE.
3. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES IN THE WORK AREA. THE CONTRACTOR SHALL NOTIFY U.S.A. TWO (2) DAYS PRIOR TO BEGINNING ANY EXCAVATION.
4. THE COUNTY WILL COORDINATE WITH PRIVATE PROPERTY OWNERS AS REQUIRED TO OBTAIN ACCESS TO CONSTRUCT IMPROVEMENTS AS REQUIRED.
5. DIRT OR DEBRIS TRACKED ONTO EXISTING COUNTY ROADS FROM THIS PROJECT SHALL BE CLEANED OFF AT THE END OF EACH WORKING DAY TO THE SATISFACTION OF THE COUNTY INSPECTOR.
6. THE COSTS OF ALL INITIAL COMPACTION TESTING REQUIRED FOR ACCEPTANCE OF WORK WILL BE PAID BY THE COUNTY. COSTS FOR SUBSEQUENT TESTS SHALL BE PAID BY THE CONTRACTOR
7. TEMPORARY EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SWPPP.
8. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.
9. PRIOR TO THE LAYING OF THE BASE MATERIAL ON THE ROADWAY, THE COUNTY SHALL APPROVE THE SUBGRADE ELEVATIONS.
10. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS, AND SHALL DO ALL WORK NECESSARY TO CONSTRUCT ALL OF THE PROPOSED IMPROVEMENTS SHOWN OR SPECIFIED ON THE PLANS IN CONFORMANCE WITH THE COUNTY STANDARDS, WITH THE EXCEPTIONS OF EXISTING IMPROVEMENTS (UNLESS DAMAGED BY THE CONTRACTOR) AND THOSE IMPROVEMENTS SPECIFICALLY SHOWN OR SPECIFIED AS "FUTURE" OR AS "BY OTHERS".
11. THE RIGHT-OF-WAY LINES SHOWN ON THE PLANS AND THE PROPERTY CORNER SURVEYING RELATED TO THE CONTROL POINTS WERE PROVIDED BY THE COUNTY.
12. UTILITIES AND COMMUNICATIONS FACILITIES SHOWN ARE TAKEN FROM THE TOPOGRAPHIC BASE, MAPS AND PLAN DRAWINGS PROVIDED BY UTILITY AND COMMUNICATIONS COMPANIES OR AGENCIES, AND/OR FIELD SURVEYS AND INVESTIGATIONS. THEIR DEPICTION IS BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED. HOWEVER, IT IS POSSIBLE THAT OTHER OR ADDITIONAL UTILITIES MAY EXIST THAT WERE NOT REVEALED BY THAT INFORMATION.
13. THE TOPOGRAPHIC AND PHOTOGRAMMETRIC SURVEYS LOCATE SPECIFIC PHYSICAL FEATURES ALONG THE PROJECT AND THEIR ELEVATIONS AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEYS BY THE COUNTY AND AERIAL SURVEYS CONDUCTED BY THE PROJECT ENGINEER.
14. THE CONTRACTOR SHALL REPAIR WITH LIKE MATERIALS ANY EXISTING DRIVEWAYS, CURB, GUTTERS, WALKWAYS, LANDSCAPING, PLANTS, OR OTHER IMPROVEMENTS DAMAGED AS A RESULT OF THE WORK TO AN EXISTING OR BETTER CONDITION.
15. NO TREE ROOTS OR BRANCHES ARE TO BE DISTURBED OR PRUNED DURING CONSTRUCTION ACTIVITIES UNLESS APPROVED BY THE ENGINEER.
9. TWO DAYS BEFORE EXCAVATION, THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT TOLL FREE AT 811.
10. PURSUANT TO SECTION 8771(b) AND 8771(c) OF THE GOVERNMENT CODE, ANY MONUMENTS THAT CONTROL THE LOCATION OF BOUNDARIES, OR OTHERWISE PROVIDE HORIZONTAL OR VERTICAL SURVEY CONTROL WITHIN THE CONSTRUCTION AREA, SHALL BE LOCATED AND REFERENCED PRIOR TO CONSTRUCTION, AND A CORNER RECORD OR RECORD SURVEY OF THE REFERENCES SHALL BE FILED WITH THE COUNTY SURVEYOR.
11. EARTHWORK SHALL CONFORM TO THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT ENTITLED "PROPOSED PETERSON ROAD IMPROVEMENTS, EAST OF TOLLHOUSE ROAD, AUBERRY, CALIFORNIA," BY BSK ASSOCIATES DATED MARCH 17, 2021.

BASIS OF VERTICAL CONTROL

ELEVATIONS ARE BASED ON REFERENCE STATION "DOND" HAVING A NAVD88 ORTHOMETRIC HEIGHT OF 2283.836 US SURVEY FEET (EPOCH OF ADJUSTMENT 2017.5) PER CENTRAL VALLEY SPATIAL REFERENCE NETWORK RECORDS. THE PROJECT ELEVATION OF CONTROL POINT #300 (4082.763) WAS DETERMINED THROUGH REAL TIME KINEMATIC GPS OBSERVATIONS USING THE CENTRAL VALLEY SPATIAL REFERENCE NETWORK TIED TO REFERENCE STATION "DOND" AND USING NATIONAL GEODETIC SURVEY GEOID MODEL GEOID12B.

BASIS OF COORDINATES

THE COORDINATE SYSTEM FOR THIS PROJECT IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 4, AND IS TIED TO CENTRAL VALLEY SPATIAL REFERENCE NETWORK STATION "DOND". STATION "DOND" HAS CCS83 ZONE 4 COORDINATES OF N2344103.796, E6360832.595, US SURVEY FEET, AT EPOCH 2017.50 PER CALIFORNIA DEPARTMENT OF TRANSPORTATION RECORDS.

CONTROL POINTS:

POINT#	NORTHING	EASTING	POINT ELEVATION	DESCRIPTION
300	2266019.2470'	6457128.2390'	4082.763'	FD. 1" IP W/TAG LS 2931 DN. 8"
301	2266077.0230'	6456979.3690'	4085.806'	FD. 1" IP W/TAG LS 2737 DN. 6"
305	2266427.0680'	6457212.0820'	4076.642'	FD. 1" IP W/TAG LS 2737 UP. 4"

GRID TO GROUND CONVERSION

MULTIPLY DISTANCES MEASURED IN THIS PROJECT BY A COMBINED SCALE FACTOR OF 1.0002234 FOR APPROXIMATE GROUND DISTANCES.

811 Know what's below. Call before you dig.

CAUTION
WATCH FOR OVERHEAD POWER LINES

THIS DRAWING SET IS PROVIDED FOR REFERENCE TO SHOW THE GUARDRAIL LIMITS AND GENERAL COMPONENT LOCATIONS ONLY.

DATE SIGNED: 4/30/2021

	DATE		
DESIGNED: XXXX	XX/XX/20XX	RESIDENT ENGINEER	DATE
DRAWN: XXXX	XX/XX/20XX		
CHECKED: XXXX	XX/XX/20XX		

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

SCALE: AS NOTED

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY J. FLYNN — No. 61,604 — CIVIL — STATE OF CALIFORNIA

PROJECT: PETERSON ROAD REPAIRS AND IMPROVEMENTS

ROAD NO. — BRIDGE NO.

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

COVER SHEET AND NOTES

DRAWING NO. — SHEET NO. 1 — TOTAL 7

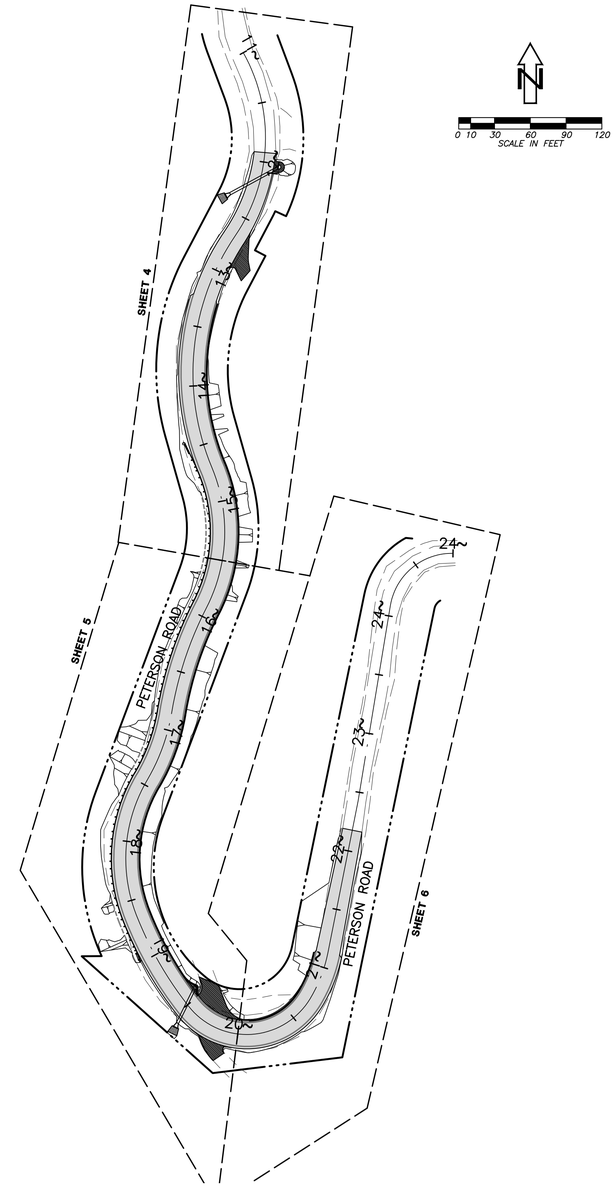
Drawing: P:\1220-1082\Site Production\Drawings\1220082_cr01.dwg, 1 COVER SHEET AND NOTES BCF.ctb
Plot By: pxhaz May 05, 2021 - 9:11am

TOPOGRAPHIC LEGEND:

- EDGE OF ASPHALT CONCRETE PAVEMENT
- EDGE OF DIRT
- EDGE OF GRAVEL
- EXISTING RIGHT-OF-WAY

ABBREVIATIONS AND CONSTRUCTION LEGEND

AP	ANGLE POINT
APPROX	APPROXIMATE
BC	BEGIN CURVE
BEG	BEGIN
BVC	BEGIN VERTICAL CURVE
CMP	CORRUGATED METAL PIPE
EC	END CURVE
EG	EXISTING GROUND
EVC	END VERTICAL CURVE
EXIST	EXISTING
FG	FINISHED GRADE
HMA	HOT MIX ASPHALT
MGR	MIDWEST GUARDRAIL
MIN	MINIMUM
PG	PROFILE GRADE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
SHLDR	SHOULDER
STA	STATION
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
TRANS	TRANSITION
VAR	VARIES
	PAVEMENT STRUCTURAL SECTION PER DETAIL C/3
	3" HOT MIX ASPHALT OVER NATIVE SOIL COMPACTED TO 95% RELATIVE COMPACTION PER CALIFORNIA TEST METHOD NO. 216
	APPROXIMATE LIMITS OF EROSION CONTROL BLANKET; SEE NOTE ON SHEET 3



STREET PLAN SHEET INDEX MAP

NOT TO SCALE

DATE SIGNED: 4/30/2021

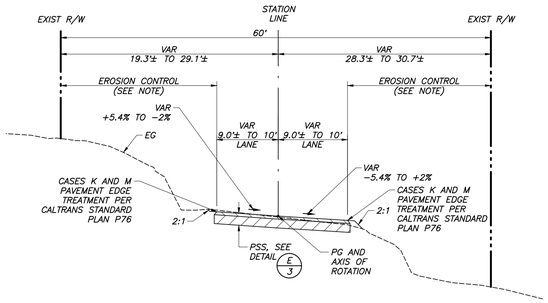
	DATE			SCALE			PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: XXXX	XX/XX/20XX	RESIDENT ENGINEER	DATE	AS NOTED	SUPERVISING ENGINEER	DATE	PETERSON ROAD REPAIRS AND IMPROVEMENTS		LEGEND AND SHEET INDEX MAP
DRAWN: XXXX	XX/XX/20XX						ROAD NO.	BRIDGE NO.	DRAWING NO. / SHEET NO. 2 / TOTAL 7
CHECKED: XXXX	XX/XX/20XX								

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

REGISTERED PROFESSIONAL ENGINEER TIMOTHY J. FLYNN No. 61,604 CIVIL STATE OF CALIFORNIA

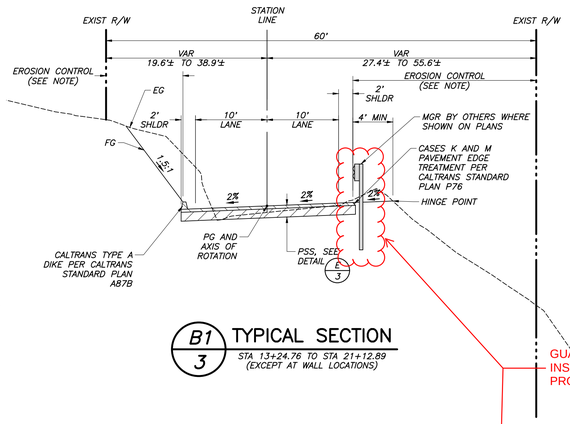
THE COUNTY OF FRESNO 1856

Drawing: P:\320-0382\Det\Production\Drawing\320382_0203.dwg, 2 LEGEND AND SHEET INDEX MAP - BC7.ctb
Plot by: jschoe May 05, 2021 - 9:11am



A/3 TYPICAL SECTION

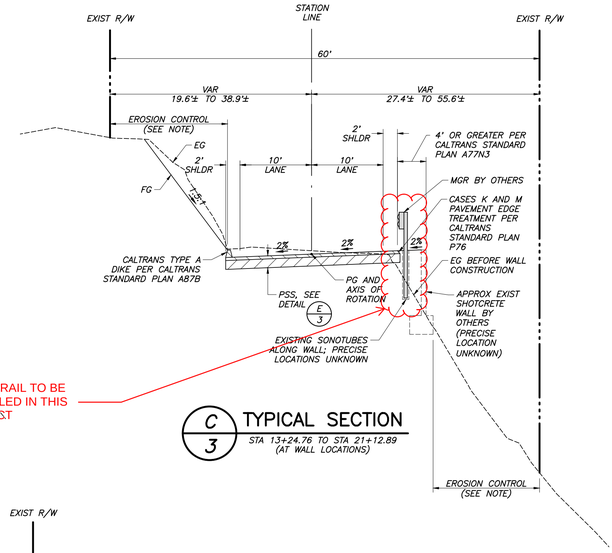
STA 11+92 TO STA 13+24.76



B1/3 TYPICAL SECTION

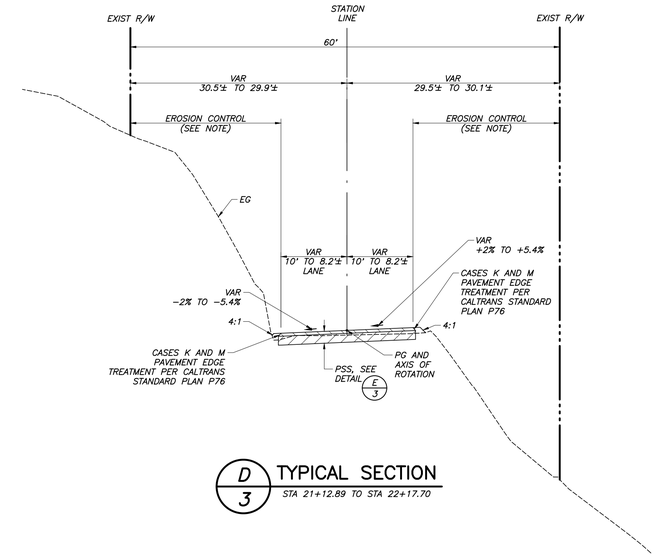
STA 13+24.76 TO STA 21+12.89
(EXCEPT AT WALL LOCATIONS)

GUARDRAIL TO BE INSTALLED IN THIS PROJECT



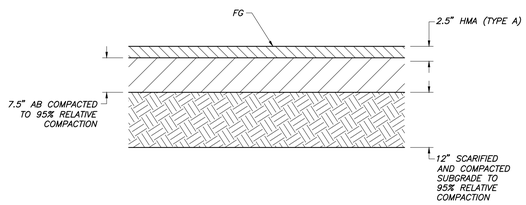
C/3 TYPICAL SECTION

STA 13+24.76 TO STA 21+12.89
(AT WALL LOCATIONS)

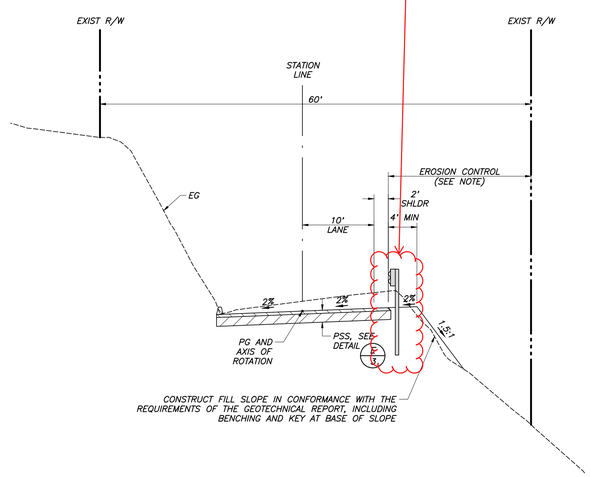


D/3 TYPICAL SECTION

STA 21+12.89 TO STA 22+17.70



E/3 PAVEMENT STRUCTURAL SECTION (PSS)

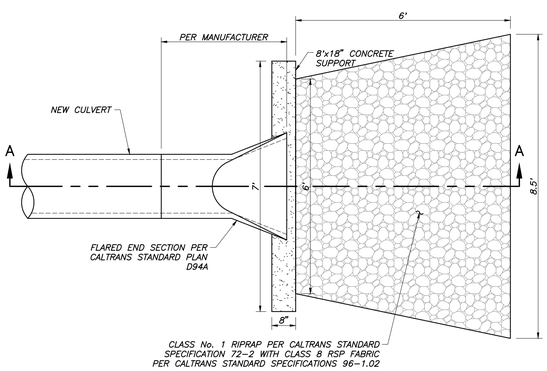


B2/3 TYPICAL SECTION (AT FILL SECTIONS)

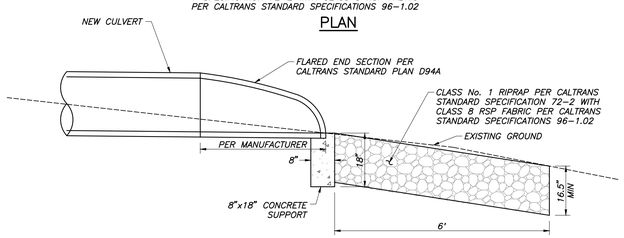
STA 13+24.76 TO STA 21+12.89
(EXCEPT AT WALL LOCATIONS)

EROSION CONTROL NOTE:

PERMANENT EROSION CONTROL SHALL BE APPLIED TO ALL NON-PAVED AREAS BETWEEN THE RIGHT-OF-WAY LINES ALONG THE PROJECT LIMITS PER THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP). AT A MINIMUM, AN EROSION CONTROL BLANKET (ECB) SHALL BE APPLIED TO ALL SLOPES 3:1 OR STEEPER, STRAW WATTLES SHALL BE INSTALLED ON ALL OTHER AREAS, AND ALL AREAS SHALL BE HYDROSEEDED. APPROXIMATE LIMITS OF AREAS REQUIRING ECB ARE SHOWN ON THE PLANS.



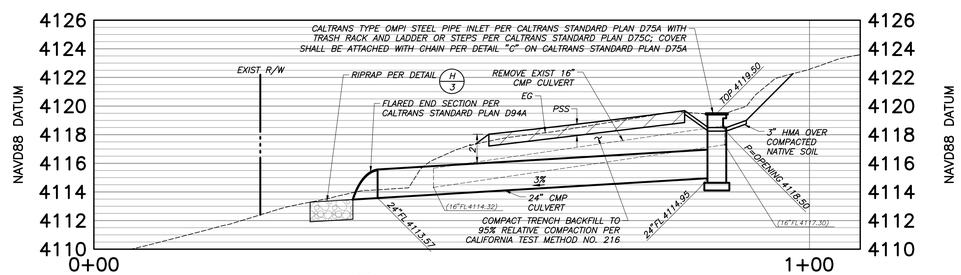
PLAN



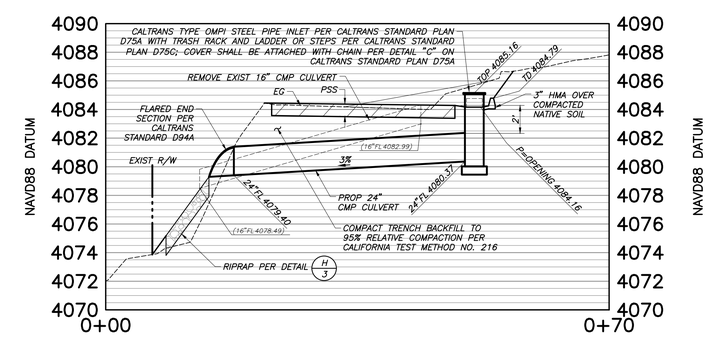
SECTION A–A

H/3 RIPRAP DETAIL

NOT TO SCALE



F/3 24" CULVERT (NORTH)



G/3 24" CULVERT (SOUTH)

DATE SIGNED: 4/30/2021

	DATE		
DESIGNED: XXXX	XX/XX/20XX	RESIDENT ENGINEER	DATE
DRAWN: XXXX	XX/XX/20XX		
CHECKED: XXXX	XX/XX/20XX		

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

SCALE: AS NOTED

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER TIMOTHY J. FLYNN No. 61,604 CIVIL STATE OF CALIFORNIA

PROJECT: PETERSON ROAD REPAIRS AND IMPROVEMENTS

ROAD NO. — BRIDGE NO.

COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

TYPICAL SECTIONS AND DETAILS

DRAWING NO. — SHEET NO. 3 — TOTAL 7

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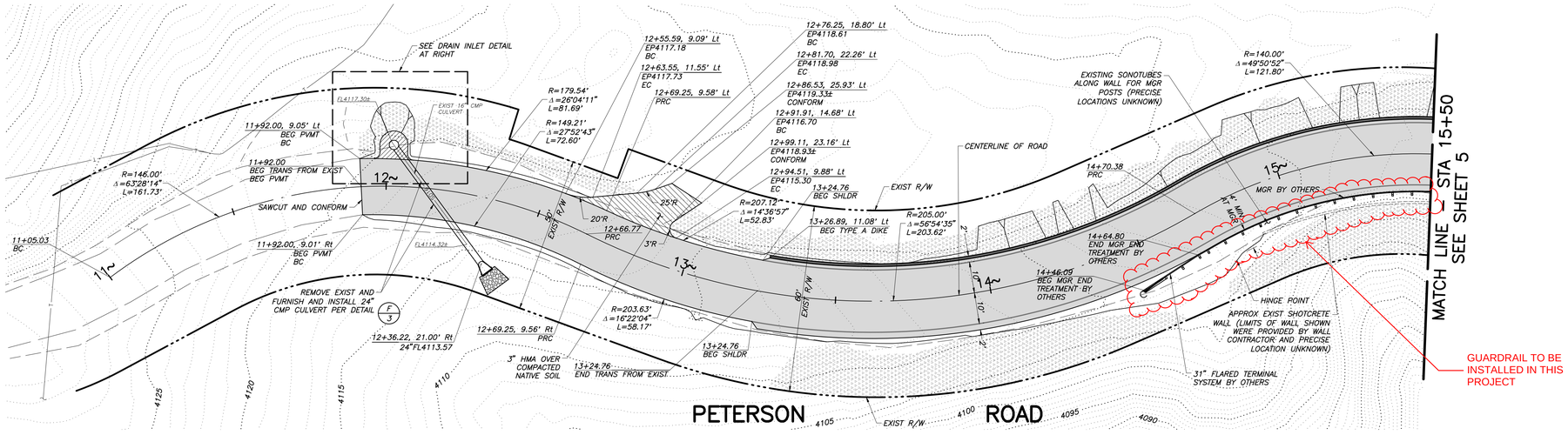
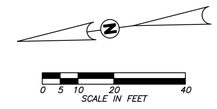
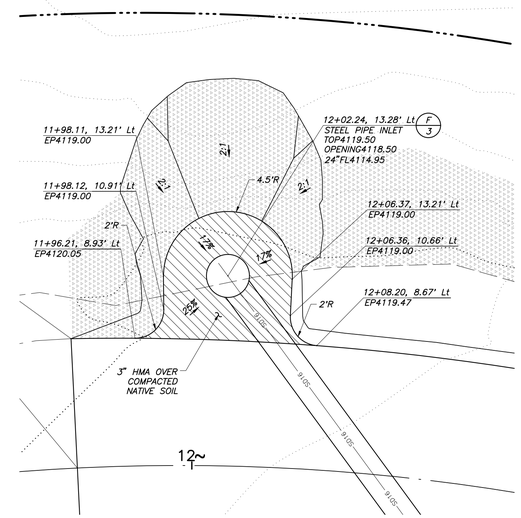
Plot by: jsanchez May 05, 2021 - 9:12am



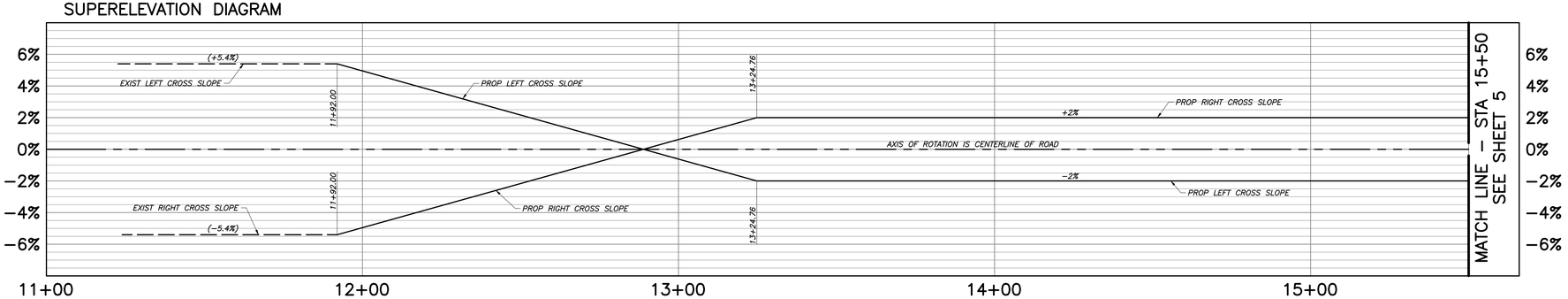




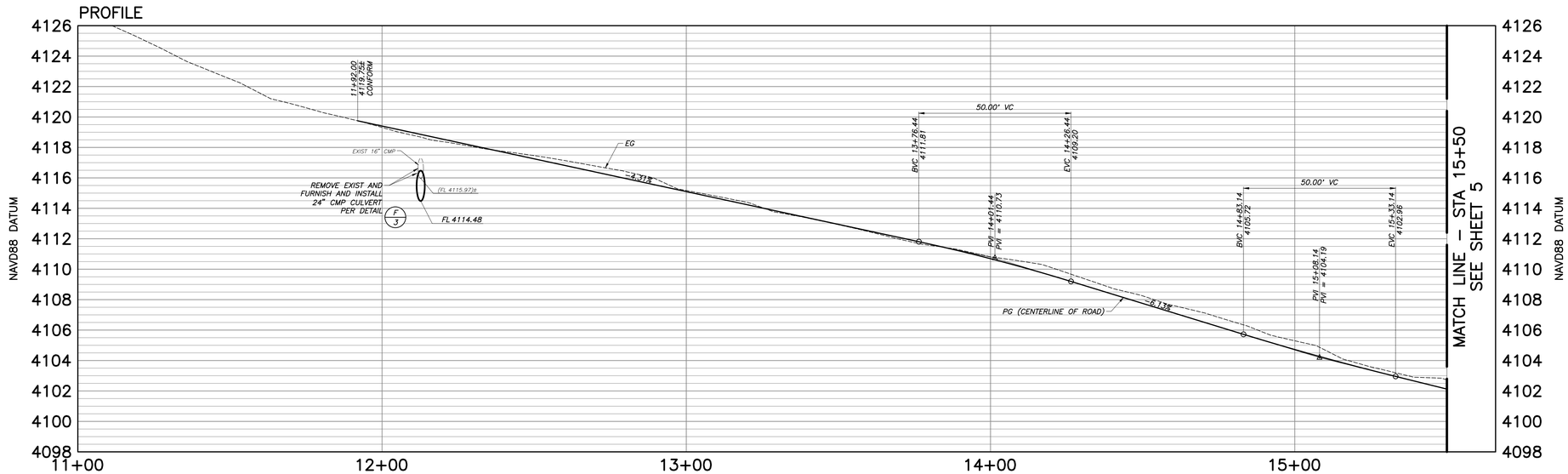
DRAIN INLET DETAIL

SCALE: 1"=5'

SUPERELEVATION DIAGRAM



PROFILE



DATE SIGNED: 4/30/2021

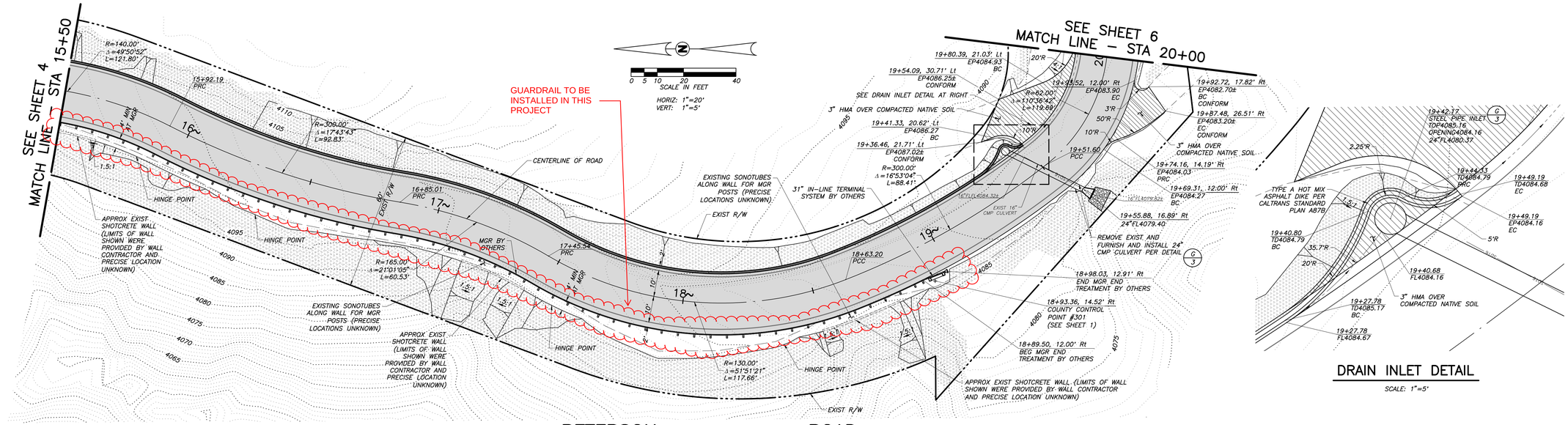
	DATE			SCALE		PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: XXXX	XX/XX/20XX	RESIDENT ENGINEER	DATE	AS NOTED	SUPERVISING ENGINEER DATE	PETERSON ROAD REPAIRS AND IMPROVEMENTS	ROAD PLAN AND PROFILE - STA 11+00 TO 15+50
DRAWN: XXXX	XX/XX/20XX					ROAD NO. BRIDGE NO.	DRAWING NO. SHEET NO. 4 TOTAL 7
CHECKED: XXXX	XX/XX/20XX						

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

REGISTERED PROFESSIONAL ENGINEER TIMOTHY J. FLYNN No. 61,604 CIVIL STATE OF CALIFORNIA

THE COUNTY OF FRESNO

Drawing: P:\220-0382\Civil\Production\Drawings\220382_PR01.dwg, 5 ROAD PLAN AND PROFILE – STA XX+XX TO XX+XX BCF.DB
Plot by: jaxhick May 05, 2021 – 9:12am

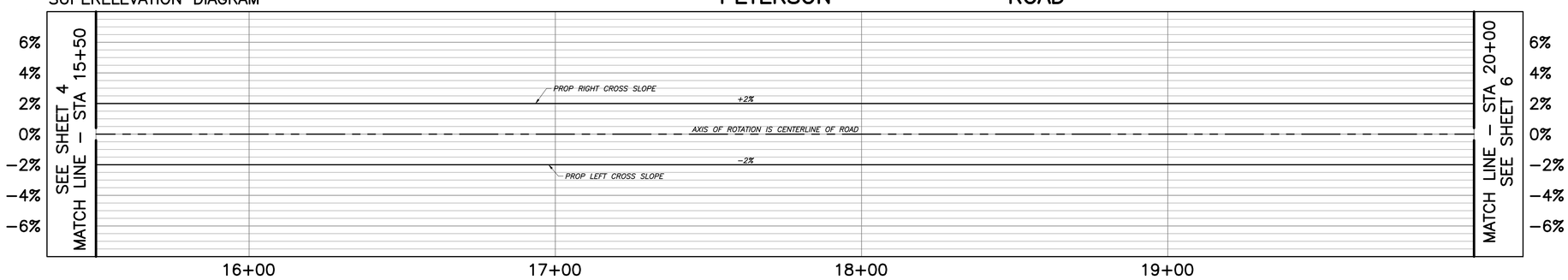


DRAIN INLET DETAIL

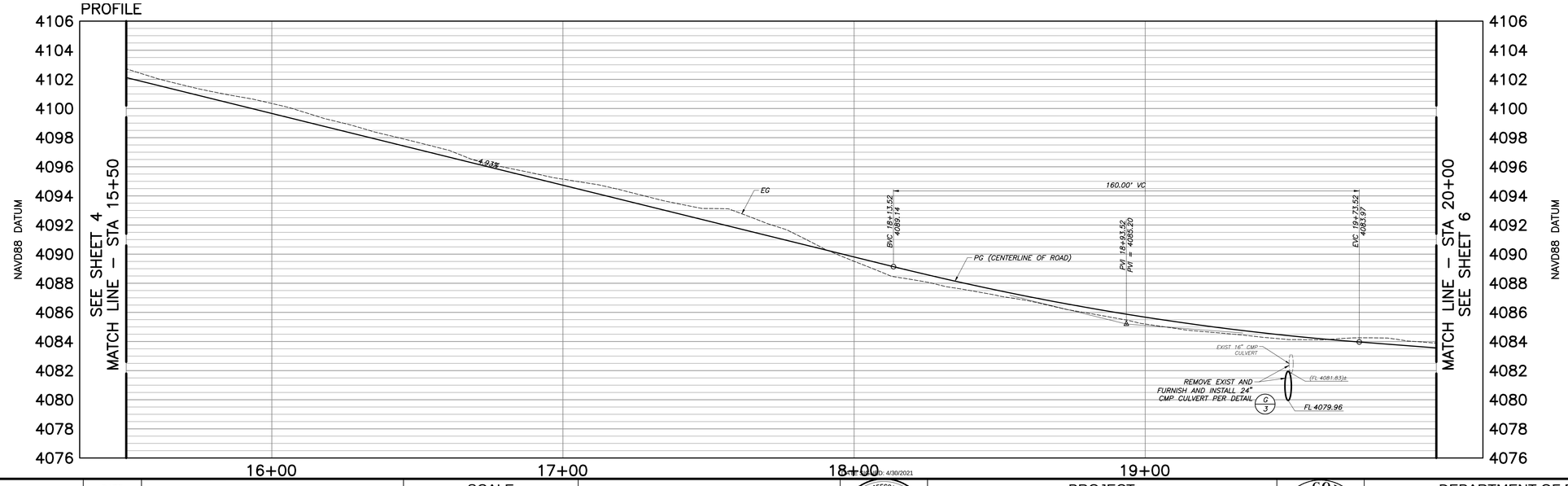
SCALE: 1"=5'

SUPERELEVATION DIAGRAM

PETERSON ROAD



PROFILE



Plotted on: Wed 4/30/2021

	DATE		
DESIGNED: XXXX	XX/XX/20XX	RESIDENT ENGINEER	DATE
DRAWN: XXXX	XX/XX/20XX		
CHECKED: XXXX	XX/XX/20XX		

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

SCALE: AS NOTED

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER TIMOTHY J. FLYNN No. 61,604 CIVIL STATE OF CALIFORNIA

PROJECT: PETERSON ROAD REPAIRS AND IMPROVEMENTS

ROAD NO. — BRIDGE NO.

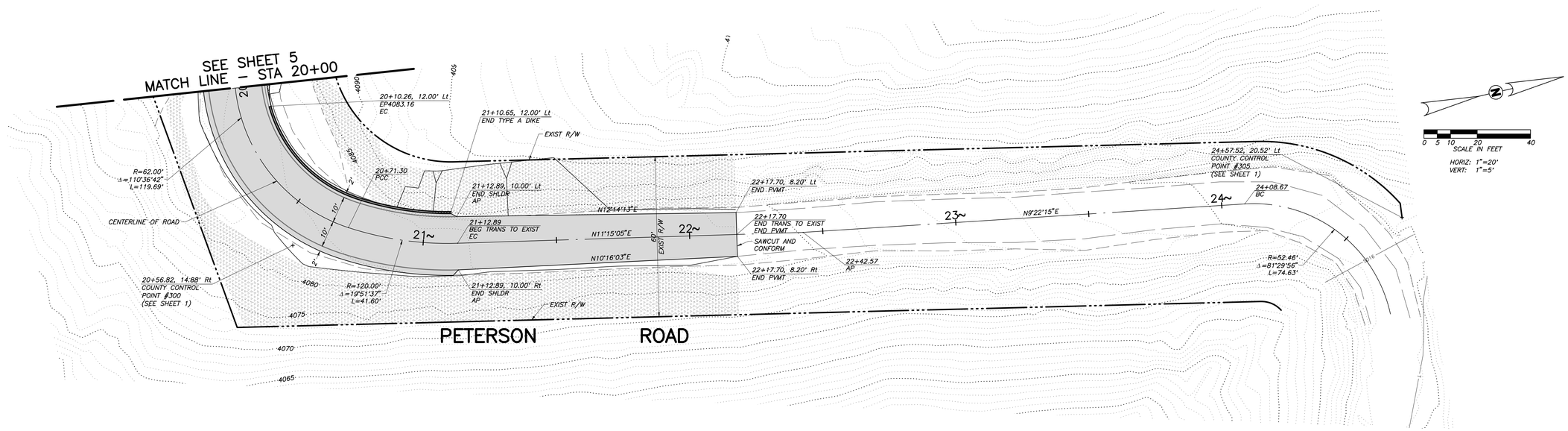
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

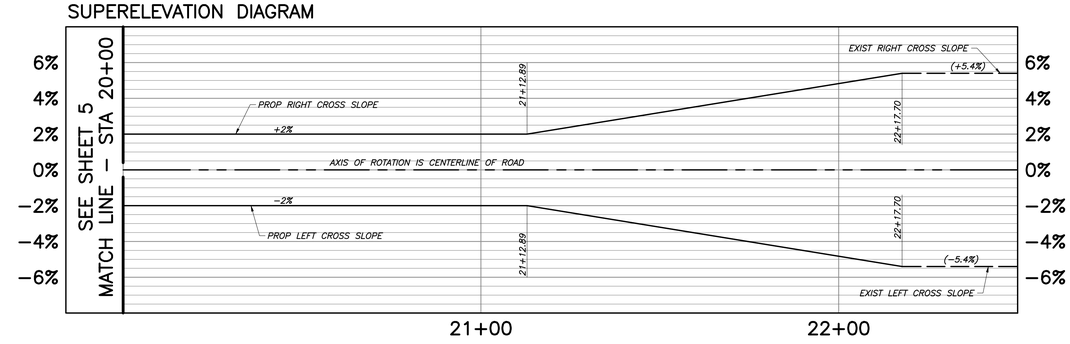
ROAD PLAN AND PROFILE - STA 15+50 TO 20+00

DRAWING NO. — SHEET NO. 5 — TOTAL 7

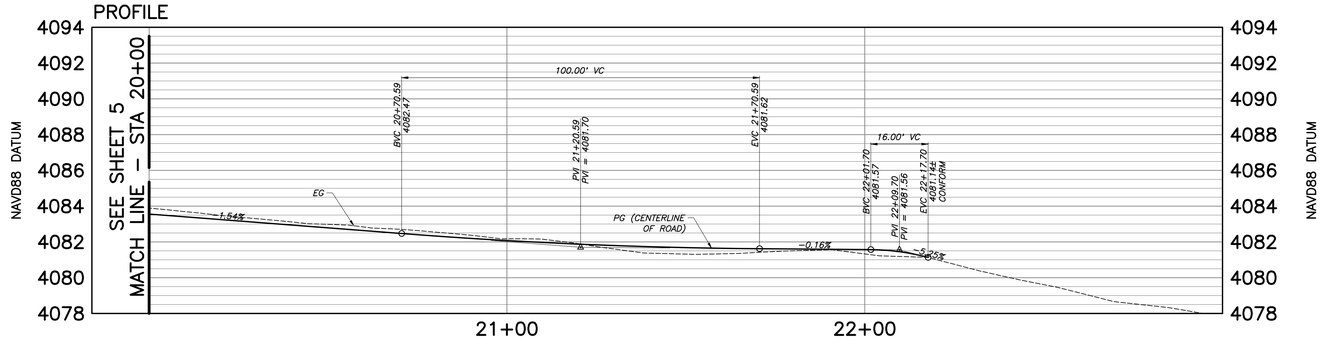
Drawing: P:\1220-1083\Plans\Drawings\1220108Z_PP02.dwg, 6 ROAD PLAN AND PROFILE - STA XX+XX TO XX+XX - BCF.tab
Plot by: jsalazar May 05, 2021 - 9:15am



SUPERELEVATION DIAGRAM



PROFILE



DATE SIGNED: 4/30/2021

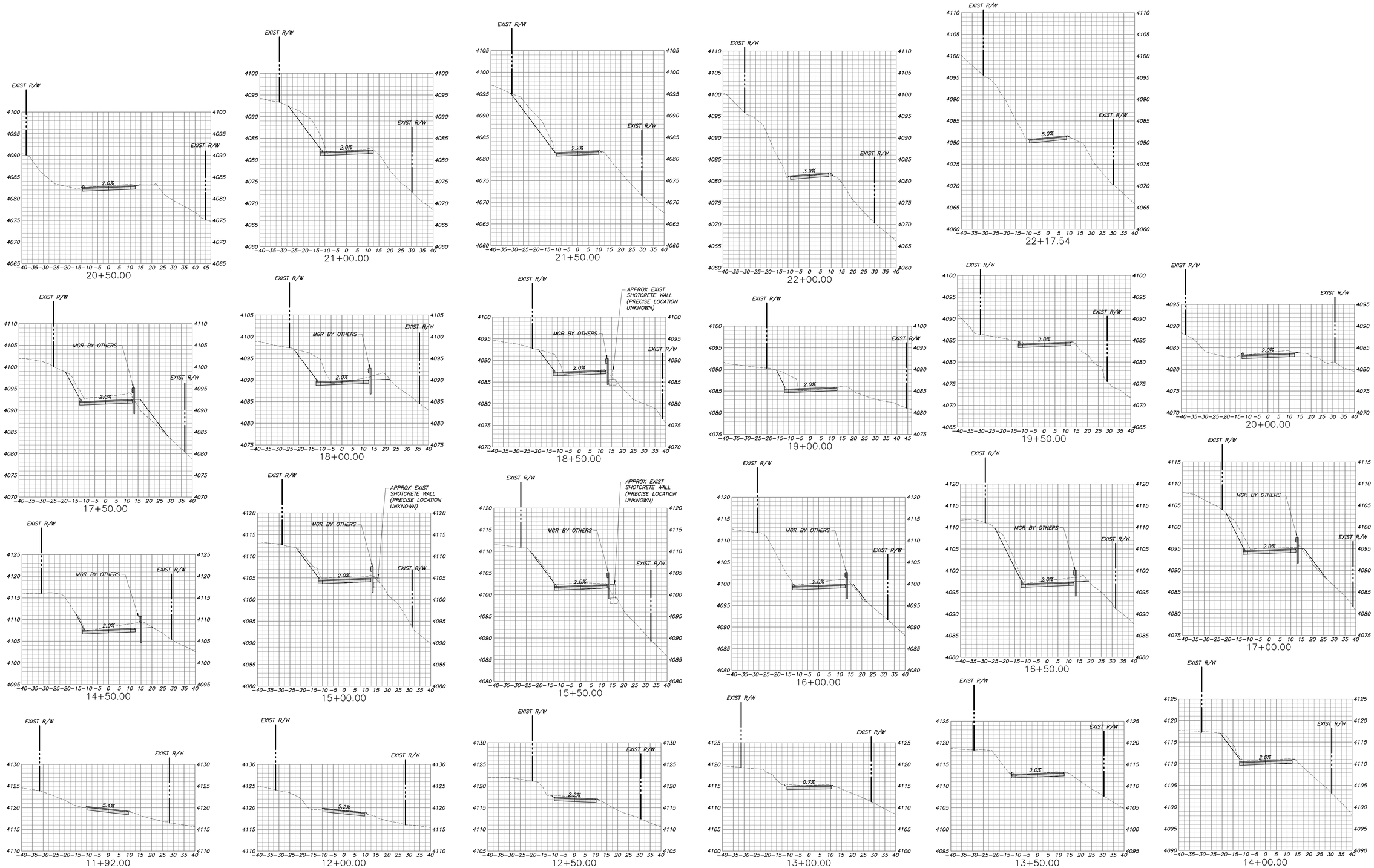
	DATE			SCALE		PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: XXXX	XX/XX/20XX	RESIDENT ENGINEER	DATE	AS NOTED	SUPERVISING ENGINEER / DATE	PETERSON ROAD REPAIRS AND IMPROVEMENTS	ROAD PLAN AND PROFILE - STA 20+00 TO 22+17.69
DRAWN: XXXX	XX/XX/20XX					ROAD NO. / BRIDGE NO.	DRAWING NO. / SHEET NO. 6 / TOTAL 7
CHECKED: XXXX	XX/XX/20XX						

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

REGISTERED PROFESSIONAL ENGINEER TIMOTHY J. FLYNN No. 61,604 CIVIL STATE OF CALIFORNIA

THE COUNTY OF FRESNO

Drawn by: FLYNN—CMED SVN P:\Projects\Peterson\2210352_PROD.dwg, 7 ROAD PLAN AND PROFILE – STA 20+00 TO 22+17.69 – BCF.ctb
Plot by: jjohns May 05, 2021 – 9:14am



SCALES: 1"=20' HORIZONTAL
1"=10' VERTICAL

DATE SIGNED: 4/30/2021

	DATE		
DESIGNED: XXXX	XX/XX/20XX	RESIDENT ENGINEER	DATE
DRAWN: XXXX	XX/XX/20XX		
CHECKED: XXXX	XX/XX/20XX		

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

SCALE

AS NOTED

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER TIMOTHY J. LYNN No. 61,604 CIVIL STATE OF CALIFORNIA

PROJECT

PETERSON ROAD
REPAIRS AND IMPROVEMENTS

ROAD NO. — BRIDGE NO.

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CROSS SECTIONS

DRAWING NO. — SHEET NO. 7 — TOTAL 7

Drawing: P:\1220-0820 Site Photos\drawings\1220820_0707.dwg, Layout: 1 - 8x5.ctb
Plot by: pjaquez May 05, 2021 - 9:14am