

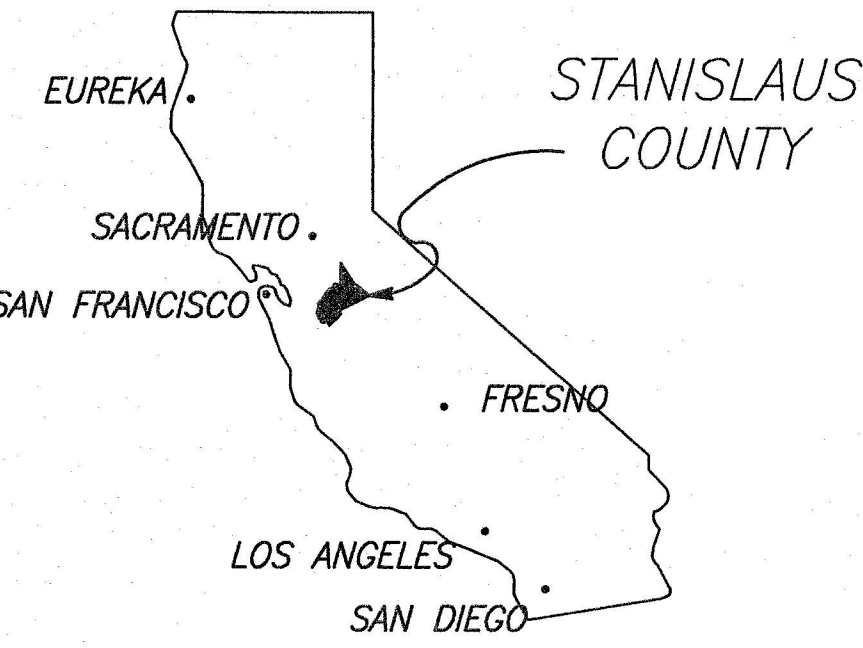
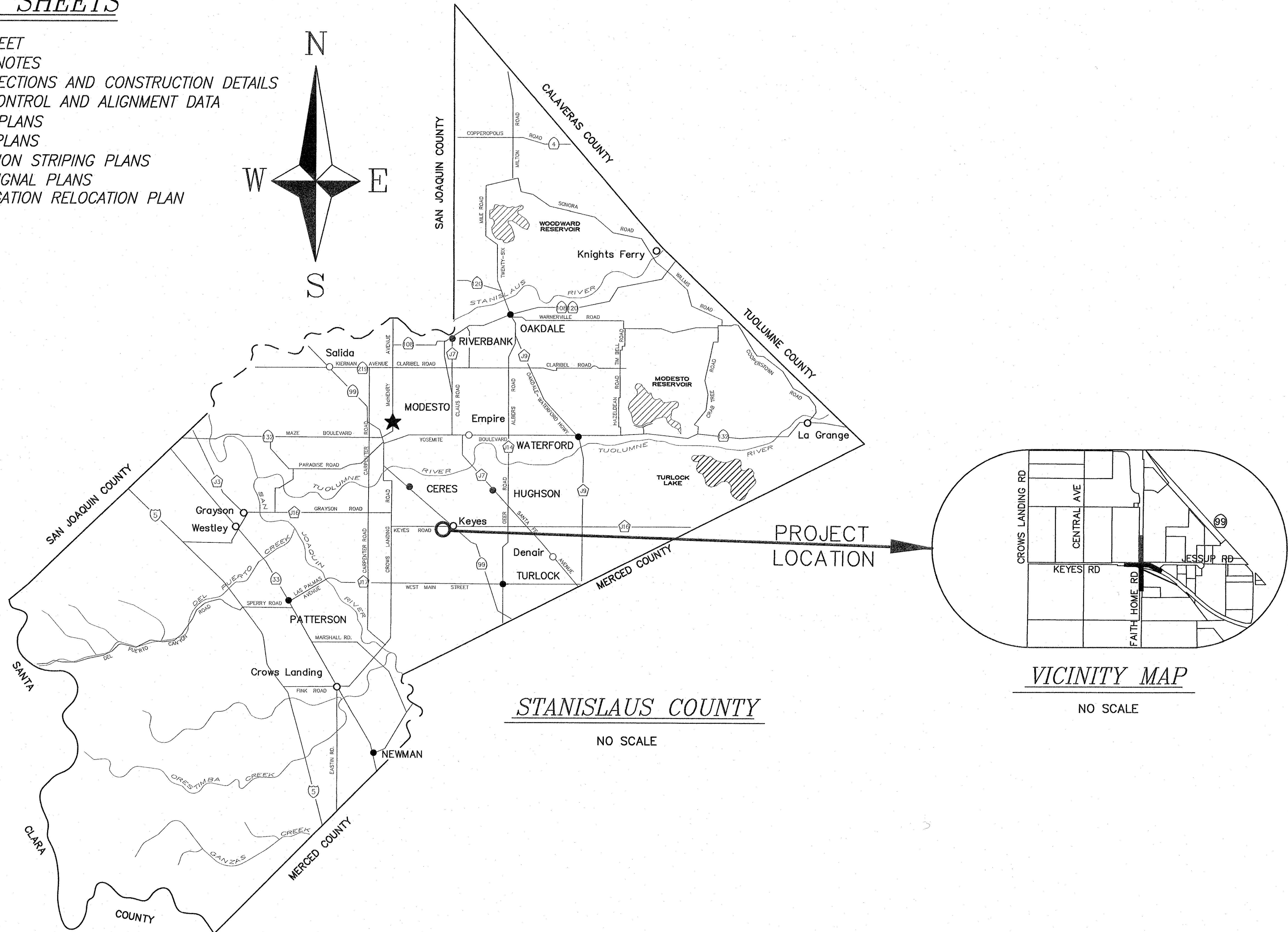
STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
PLANS FOR THE RE-CONSTRUCTION OF

KEYES ROAD & FAITH HOME ROAD
INTERSECTION IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

PROJECT NO. CML-5938(239)

INDEX OF SHEETS

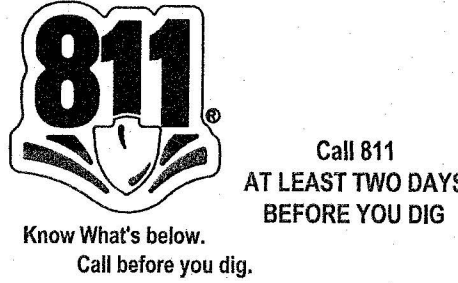
- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-5 TYPICAL SECTIONS AND CONSTRUCTION DETAILS
- 6 SURVEY CONTROL AND ALIGNMENT DATA
- 7-8 REMOVAL PLANS
- 9-10 GRADING PLANS
- 11-12 INTERSECTION STRIPING PLANS
- 13-14 TRAFFIC SIGNAL PLANS
- 15 T.I.D. IRRIGATION RELOCATION PLAN



STATE OF CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
2015 STANDARD PLANS

RSP A20A	RSP A77L1	RSP A77R3	ES-2C	RSP ES-4D	RSP ES-7G	RSP ES-8B
RSP A20B	RSP A77L2	A62DA	RSP ES-2D	ES-4E	RSP ES-7I	RSP ES-11
RSP A20D	A77M1	RSP ES-1A	RSP ES-3C	ES-5C	RSP ES-7M	
A24A	RSP A77N1	RSP ES-1B	ES-4A	ES-6F	RSP ES-7N	
A24B	RSP A77N2	RSP ES-1C	ES-4B	RSP ES-7B	ES-7R	
A24D	A77S1	ES-2A	RSP ES-4C	RSP ES-7E	RSP ES-8A	



GENERAL NOTES

1. THE CONTRACTOR SHALL POSSESS THE LICENSE(S) REQUIRED IN THE INVITATION TO BID & SPECIAL PROVISIONS.
2. ALL MATERIAL AND WORK SHALL CONFORM TO STANISLAUS COUNTY SPECIFICATIONS AND IMPROVEMENT STANDARDS, 2014 EDITION, TO BE SUPPLEMENTED BY CALTRANS STANDARD PLANS, DATED MAY, 2015 AND STANDARD SPECIFICATIONS, DATED MAY, 2015; AND ALL ADDENDA THERETO. ALL IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITIES. THE CONTRACTOR SHALL DO NO EXCAVATION UNTIL ALL UTILITY AGENCIES AND THE STANISLAUS COUNTY DEPARTMENT OF PUBLIC WORKS HAVE BEEN NOTIFIED AND HAVE BEEN GIVEN THE OPPORTUNITY TO MARK THEIR FACILITIES IN THE FIELD. THE CONTRACTOR SHALL CALL U.S.A. (811) AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DOING ANY EXCAVATING.
4. THESE PLANS HAVE BEEN CHECKED BY THE STANISLAUS COUNTY DEPARTMENT OF PUBLIC WORKS AND/OR AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS, OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING COURSE OF CONSTRUCTION.
5. ALL CONSTRUCTION SITE ACTIVITIES SHALL CONFORM TO THE STATE WATER RESOURCES CONTROL BOARD, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY.
6. PRIOR TO INITIATING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL NECESSARY FEDERAL, STATE, AND LOCAL PERMITS HAVE BEEN OBTAINED.
7. CONTACT:

STANISLAUS COUNTY, DEPARTMENT OF PUBLIC WORKS
SHOAIB AHRARY, P.E., (209) 525-4133

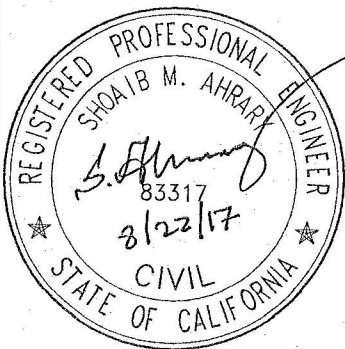
APPROVED BY STANISLAUS COUNTY:

Chris Brady
CHRIS BRADY, P.E.
DEPUTY DIRECTOR OF PUBLIC WORKS
STANISLAUS COUNTY

8/22/17
DATE

Civil Engineering Department Manager
APPROVED BY TURLOCK IRRIGATION DISTRICT
FOR IRRIGATION FACILITIES ONLY.

9-6-17
DATE



NO	REVISIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



COVER SHEET
IMPROVEMENT PLANS FOR:
KEYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO. 9621
DATE 08/12/2017
DR BY STN
CK BY SA
SURVEY CJ
CONST. CB
HOZ. SCALE: NA
VERT. SCALE: NA

SHEET
NUMBER
1
OF 15 SHEETS

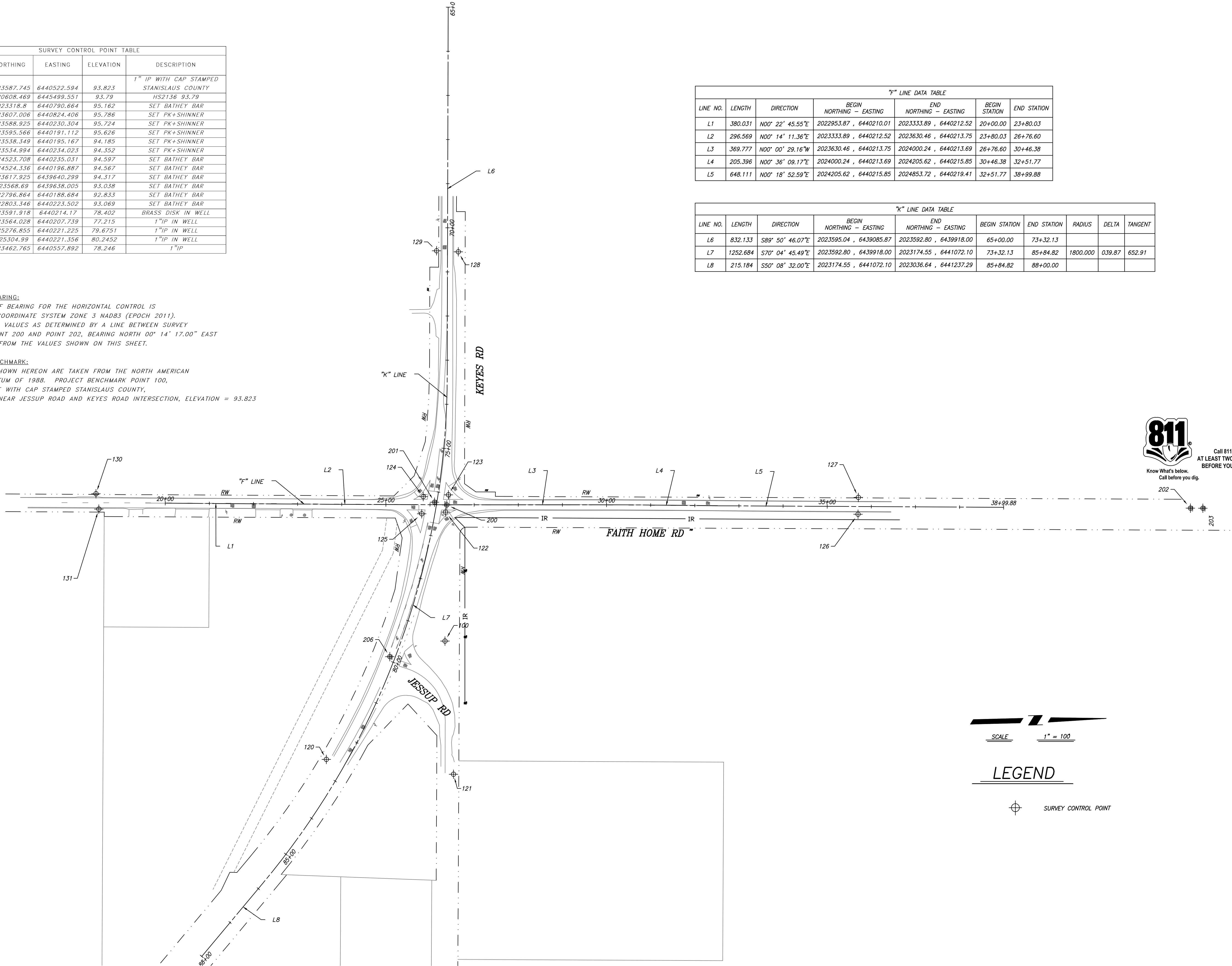
SURVEY CONTROL POINT TABLE				
CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	2023587.745	6440522.594	93.823	1" IP WITH CAP STAMPED STANISLAUS COUNTY
103	2020608.469	6445499.551	93.79	HS2136 93.79
120	2023318.8	6440790.664	95.162	SET BATHEY BAR
121	2023607.006	6440824.406	95.786	SET PK+SHINNER
122	2023588.925	6440230.304	95.724	SET PK+SHINNER
123	2023595.566	6440191.112	95.626	SET PK+SHINNER
124	2023538.349	6440195.167	94.185	SET PK+SHINNER
125	2023534.994	6440234.023	94.352	SET PK+SHINNER
126	2024523.708	6440235.031	94.597	SET BATHEY BAR
127	2024524.336	6440196.887	94.567	SET BATHEY BAR
128	2023617.925	6439640.299	94.317	SET BATHEY BAR
129	2023568.69	6439638.005	93.038	SET BATHEY BAR
130	2022796.864	6440188.684	92.833	SET BATHEY BAR
131	2022803.346	6440223.502	93.069	SET BATHEY BAR
200	2023591.918	6440214.17	78.402	BRASS DISK IN WELL
201	2023564.028	6440207.739	77.215	1"IP IN WELL
202	2025276.855	6440221.225	79.6751	1"IP IN WELL
203	2025304.99	6440221.356	80.2452	1"IP IN WELL
206	2023462.765	6440557.892	78.246	1"IP

BASIS OF BEARING:
THE BASIS OF BEARING FOR THE HORIZONTAL CONTROL IS CALIFORNIA COORDINATE SYSTEM ZONE 3 NAD83 (EPOCH 2011). HOLDING THE VALUES AS DETERMINED BY A LINE BETWEEN SURVEY CONTROL POINT 200 AND POINT 202, BEARING NORTH 00° 14' 17.00" EAST AS DERIVED FROM THE VALUES SHOWN ON THIS SHEET.

PROJECT BENCHMARK:
ELEVATION SHOWN HEREON ARE TAKEN FROM THE NORTH AMERICAN VERTICAL DATUM OF 1988. PROJECT BENCHMARK POINT 100, 1" IRON PIPE WITH CAP STAMPED STANISLAUS COUNTY, IS LOCATED NEAR JESSUP ROAD AND KEYES ROAD INTERSECTION, ELEVATION = 93.823

"F" LINE DATA TABLE						
LINE NO.	LENGTH	DIRECTION	BEGIN NORTHING - EASTING	END NORTHING - EASTING	BEGIN STATION	END STATION
L1	380.031	N00° 22' 45.55"E	2022953.87 , 6440210.01	2023333.89 , 6440212.52	20+00.00	23+80.03
L2	296.569	N00° 14' 11.36"E	2023333.89 , 6440212.52	2023630.46 , 6440213.75	23+80.03	26+76.60
L3	369.777	N00° 00' 29.16"W	2023630.46 , 6440213.75	2024000.24 , 6440213.69	26+76.60	30+46.38
L4	205.396	N00° 36' 09.17"E	2024000.24 , 6440213.69	2024205.62 , 6440215.85	30+46.38	32+51.77
L5	648.111	N00° 18' 52.59"E	2024205.62 , 6440215.85	2024853.72 , 6440219.41	32+51.77	38+99.88

"K" LINE DATA TABLE								
LINE NO.	LENGTH	DIRECTION	BEGIN NORTHING - EASTING	END NORTHING - EASTING	BEGIN STATION	END STATION	RADIUS	DELTA
L6	832.133	S89° 50' 46.07"E	2023595.04 , 6439085.87	2023592.80 , 6439918.00	65+00.00	73+32.13		
L7	1252.684	S70° 04' 45.49"E	2023592.80 , 6439918.00	2023174.55 , 6441072.10	73+32.13	85+84.82	1800.000	039.87
L8	215.184	S50° 08' 32.00"E	2023174.55 , 6441072.10	2023036.64 , 6441237.29	85+84.82	88+00.00		



SCALE

1" = 100'

LEGEND

SURVEY CONTROL POINT



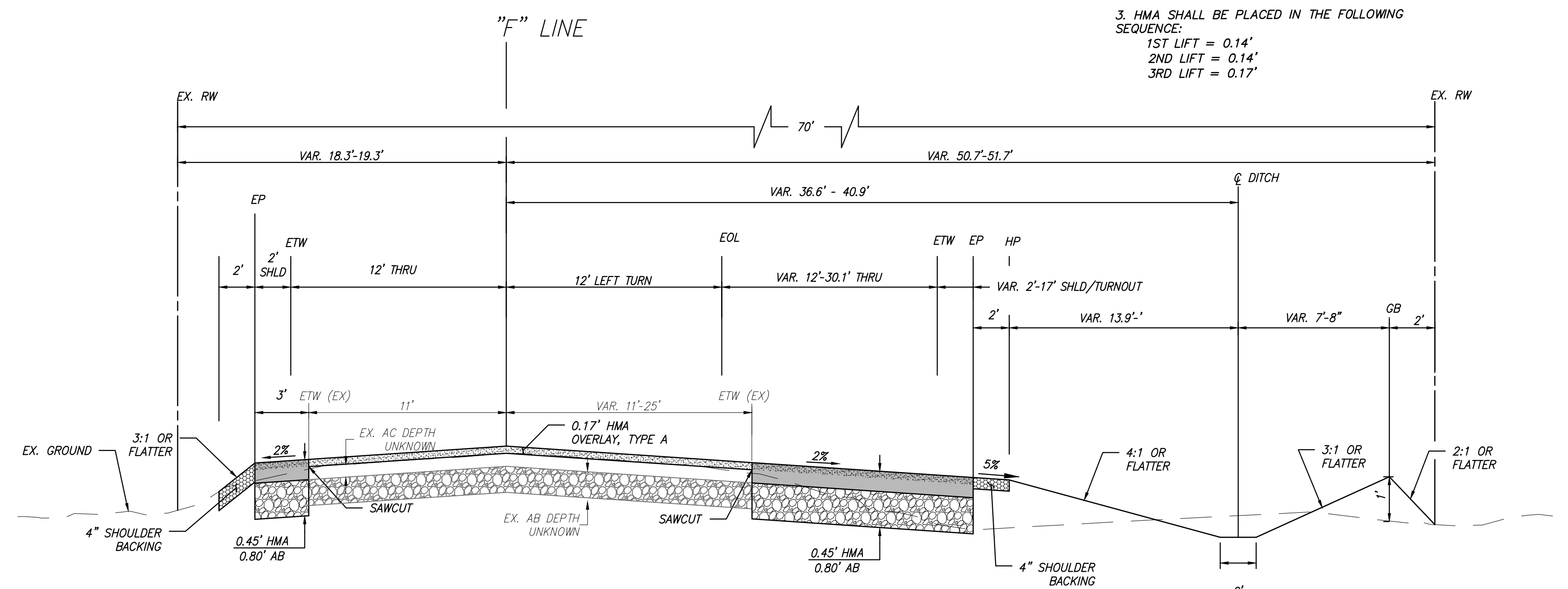
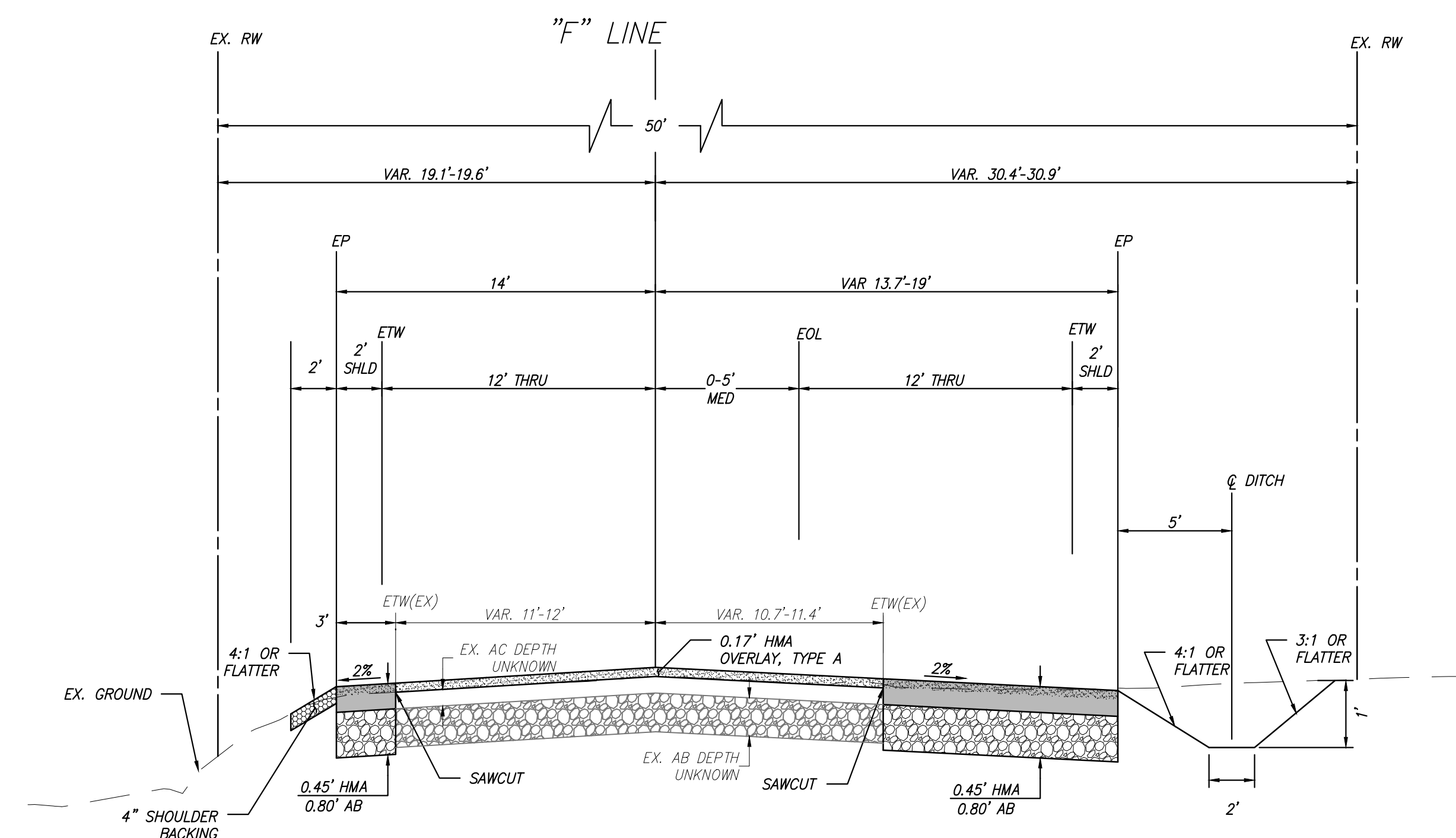
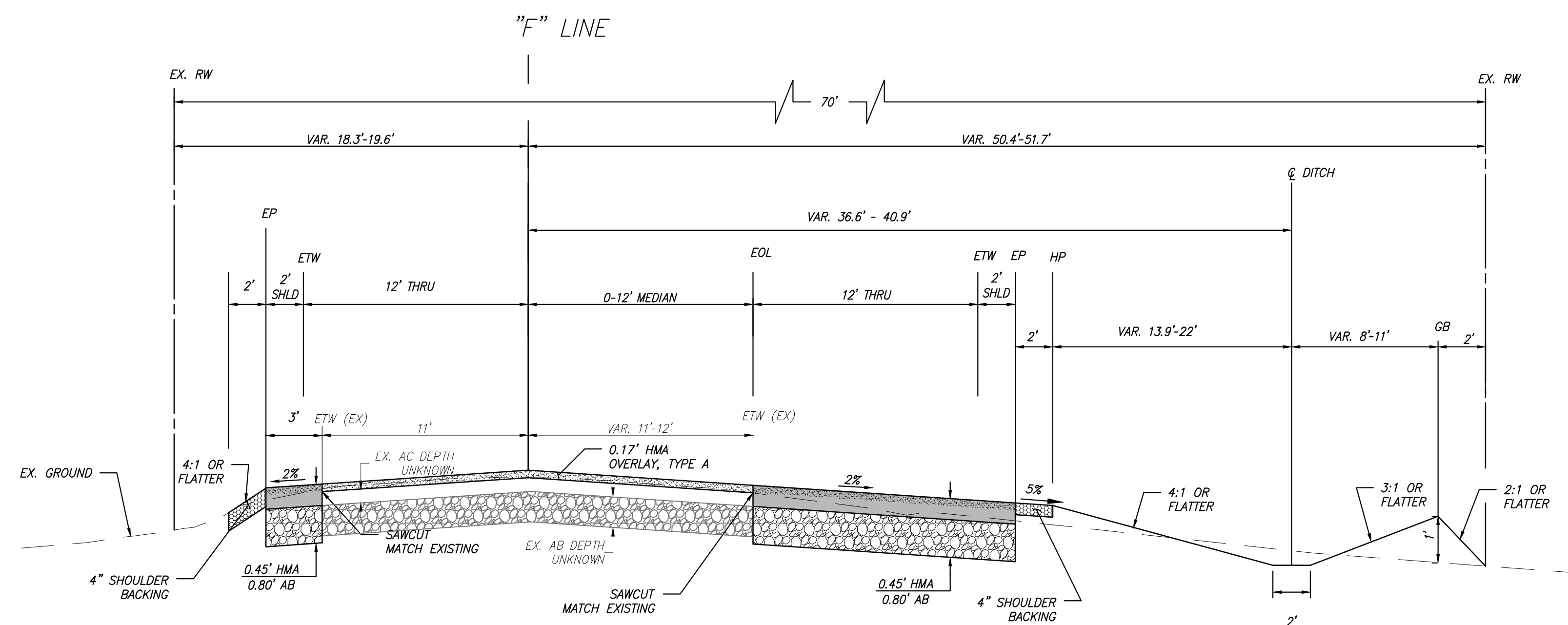
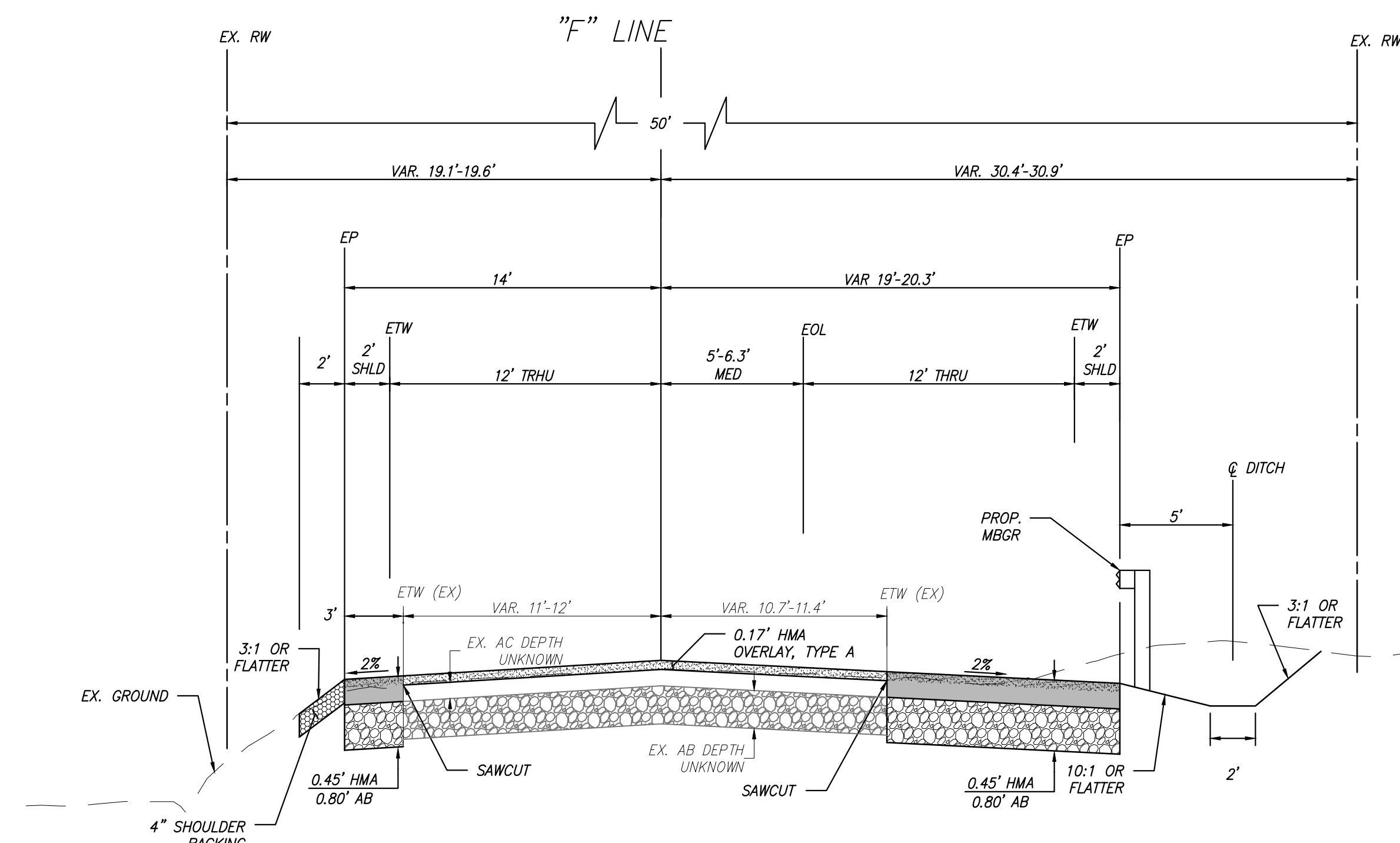
REVISIONS		DATE	APPROVED
NO	DESCRIPTIONS		

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



SURVEY CONTROL POINTS & ALIGNMENT DATA	IMPROVEMENT PLANS FOR: KEYES ROAD AT FAITH HOME ROAD INTERSECTION IMPROVEMENTS STANISLAUS COUNTY, CALIFORNIA
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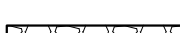
JOB NO. 9621
DATE 09-05-2017
DR BY STN
CK BY SA
SURVEY RA
CONST. CB
HOZ. SCALE: NA
VERT. SCALE: NA



LEGEND



**Call 811
AT LEAST TWO DAY
BEFORE YOU DIG**

	LANE/SHOULDER WIDENING, HMA PAVEMENT, TYPE A
	0.17" HMA OVERLAY, TYPE A
	SHOULDER BACKING
	AGGREGATE BASE

CONSTRUCTION NOTES:

1. SEE SHEET NO. 9 & 10 FOR DITCH FLOWLINE EXACT LOCATIONS & ELEVATION
2. LANE/SHOULDER WIDENING PAVEMENT SECTION DEPTH INCLUDES 0.17" HMA OVERLAY TYPE A
3. HMA SHALL BE PLACED IN THE FOLLOWING SEQUENCE:
 1ST LIFT = 0.14'
 2ND LIFT = 0.14'
 3RD LIFT = 0.17'

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358

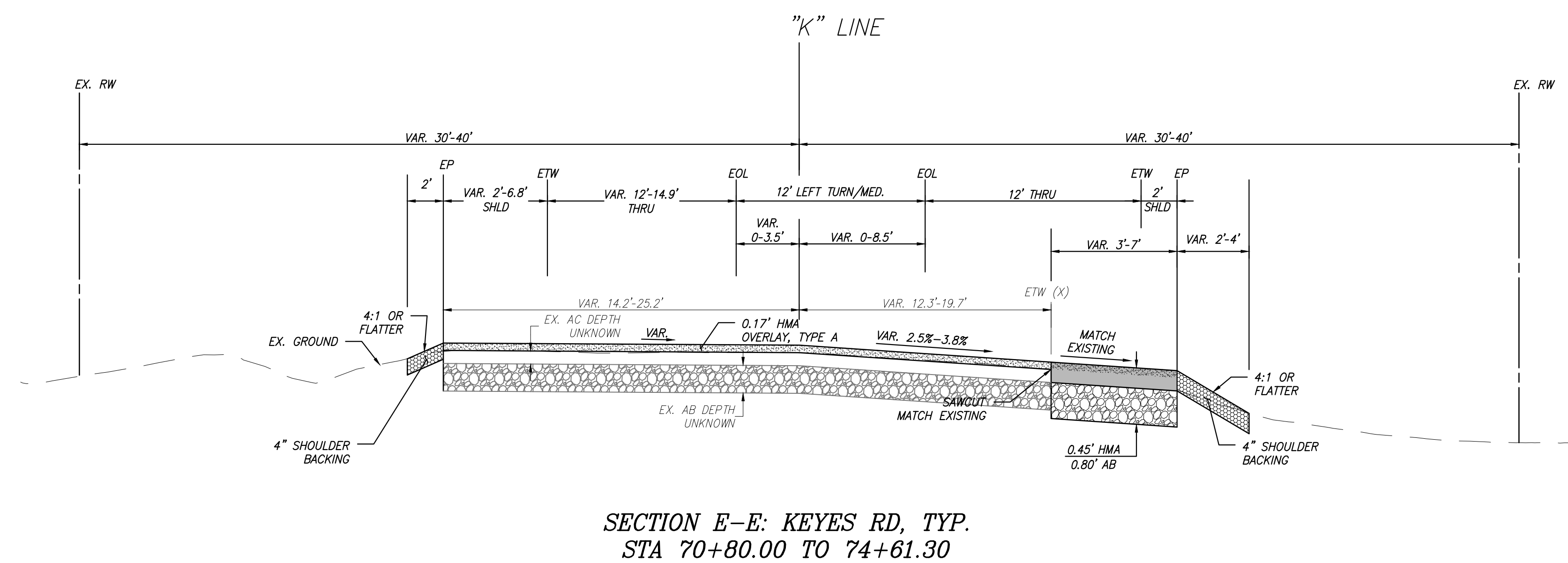
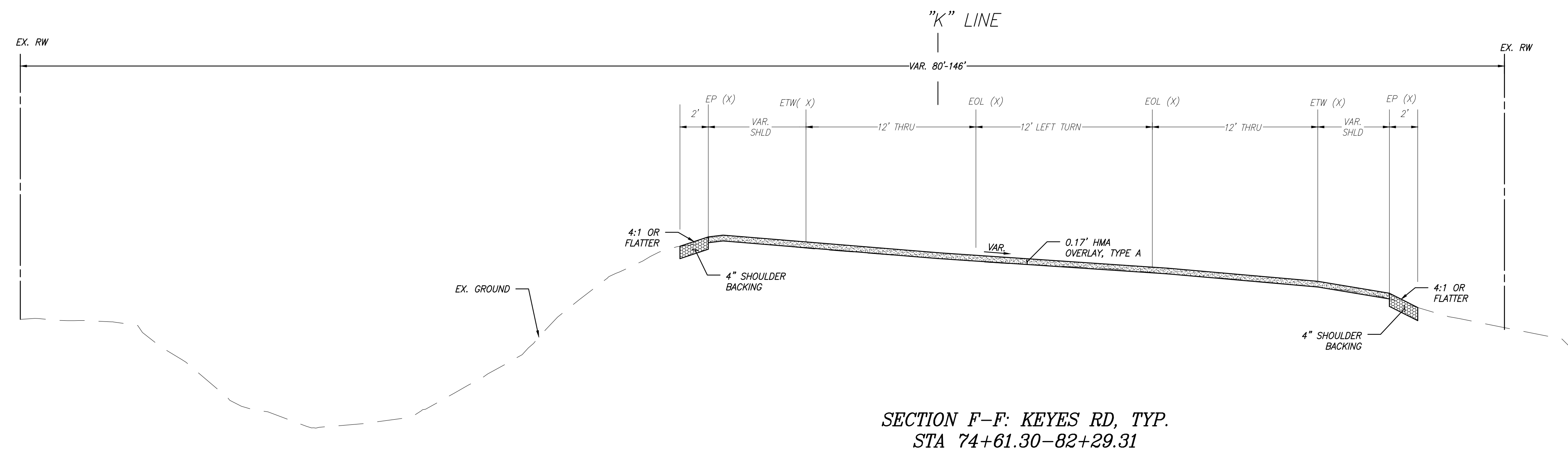


TYPICAL SECTION

IMPROVEMENT PLANS FOR:
KEYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO.	9621
DATE	09-05-2017
DR BY	STN
CK BY	SA
SURVEY	CJ
CONST.	PS
HOZ. SCALE:	NA
VERT. SCALE:	NA

SHEET
NUMBER
4
OF 15 SHEETS



LEGEND

- | | |
|---|---|
|  | LANE/SHOULDER WIDENING,
HMA PAVEMENT, TYPE A |
|  | 0.17" HMA OVERLAY,
TYPE A |
|  | SHOULDER BACKING |
|  | AGGREGATE BASE |



Call 811
AT LEAST TWO DAYS
BEFORE YOU DIG

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358



TYPICAL SECTION

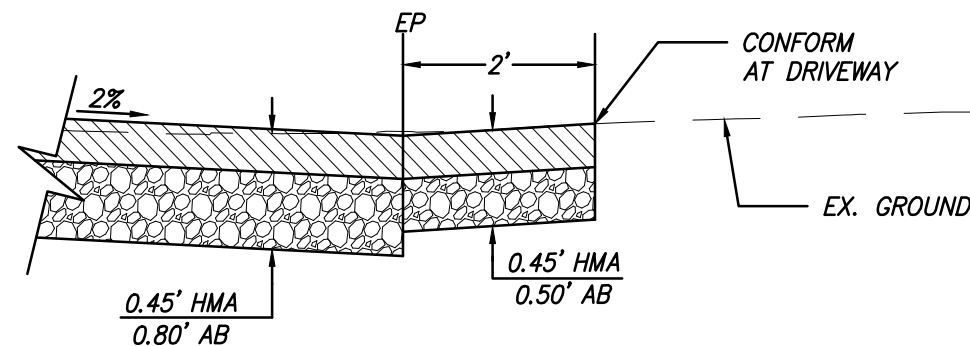
IMPROVEMENT PLANS FOR:

KEYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

OB NO.	9621
DATE	09-05-2017
CR BY	STN
CK BY	SA
SURVEY	CJ
CONST.	PS
HOZ. SCALE:	NA
VERT. SCALE:	NA

SHEET
NUMBER
5
OF 15 SHEETS

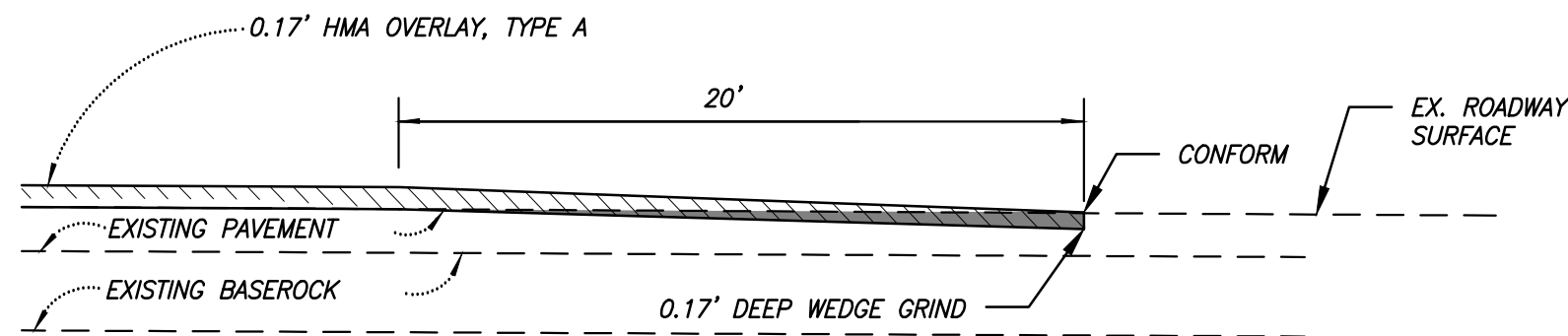
See: 01, 2017 - 100000
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DRIVEWAY CONFORM DETAIL

NTS

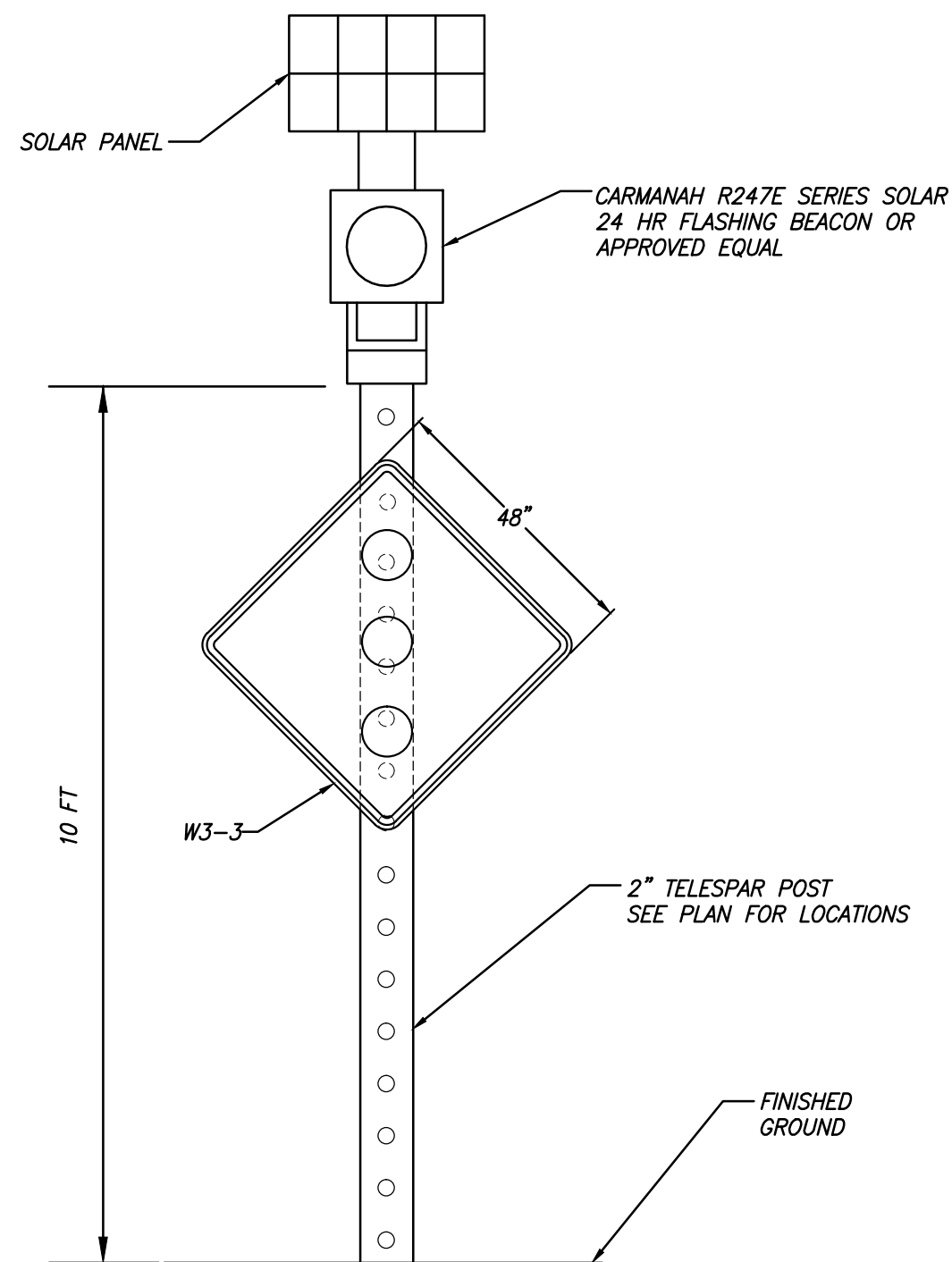
A
6



CONFORM GRIND DETAIL

NTS

B
6



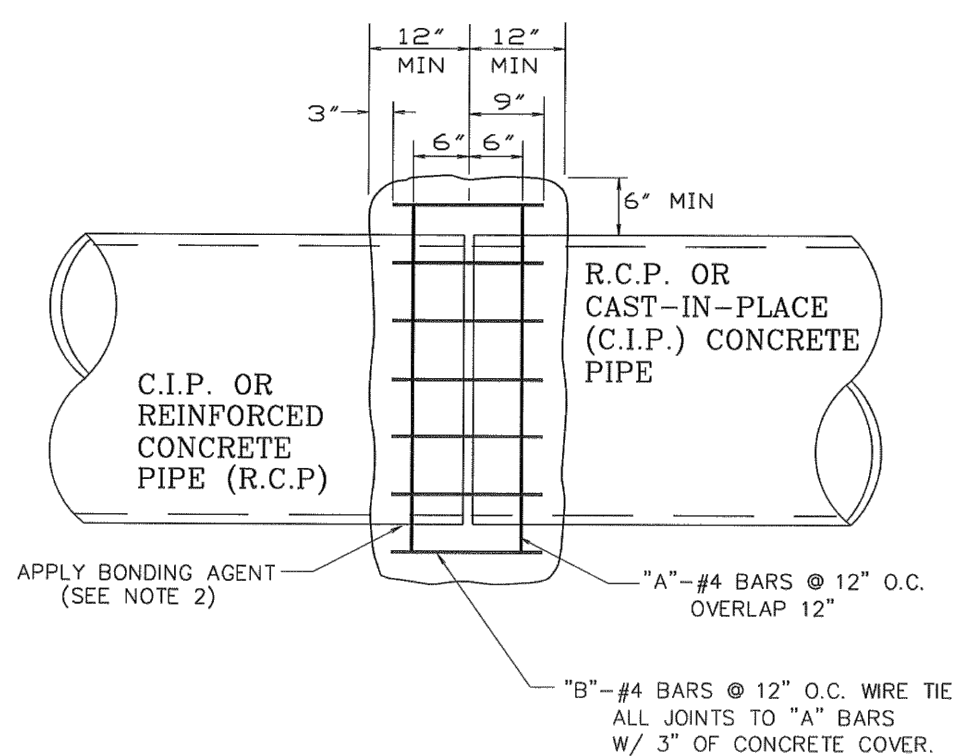
SOLAR FLASHING BEACON DETAIL

NTS

C
6



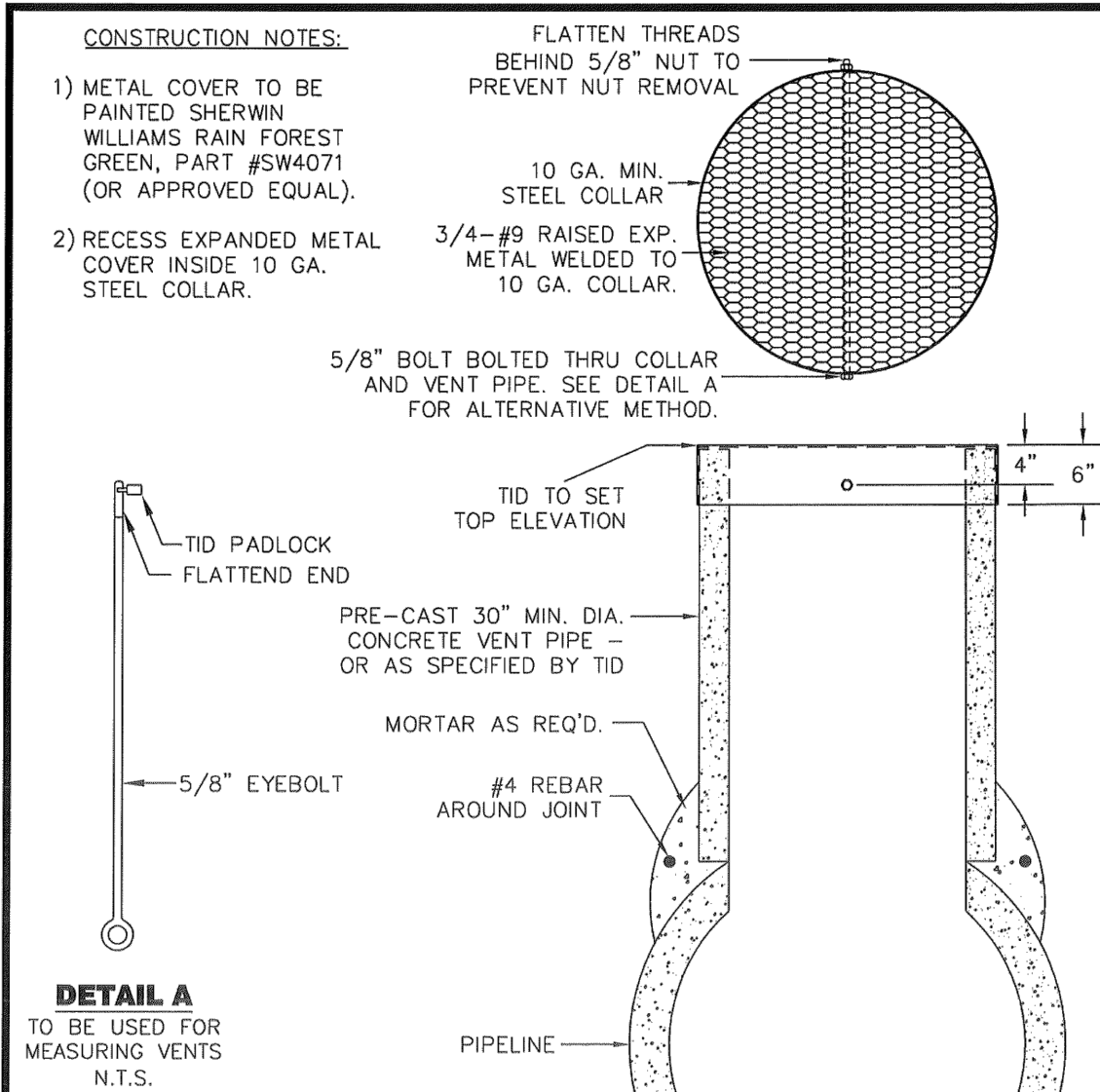
Call 811
AT LEAST TWO DAYS
BEFORE YOU DIG



T.I.D. IRRIGATION CS 102B DETAIL

NTS

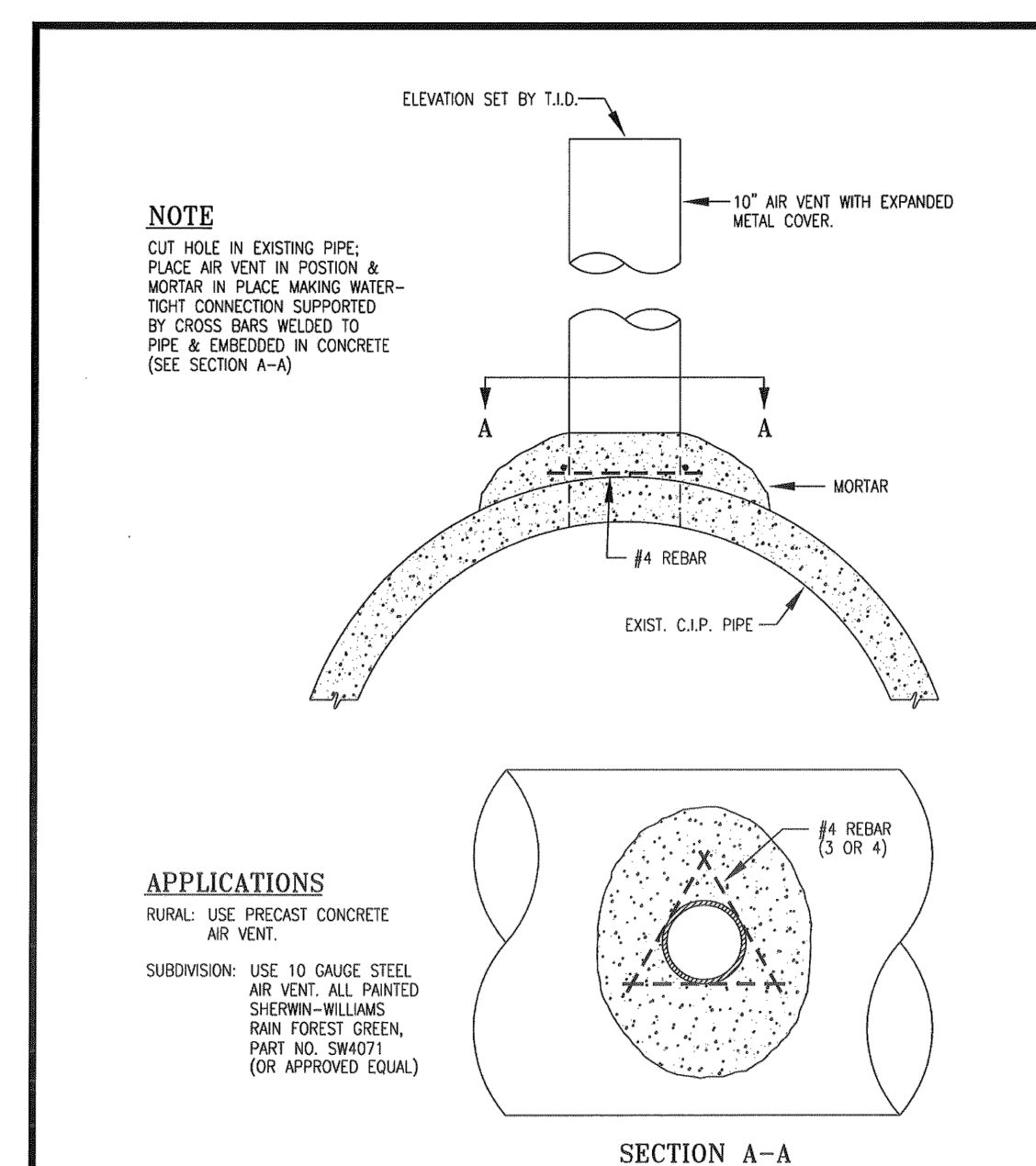
D
6



T.I.D. IRRIGATION CS 107C DETAIL

NTS

E
6



T.I.D. IRRIGATION CS144B DETAIL

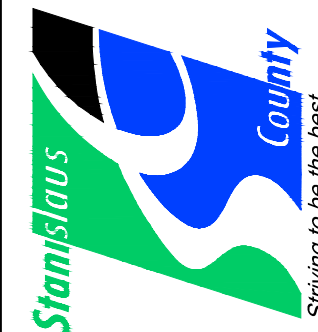
NTS

F
6



NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

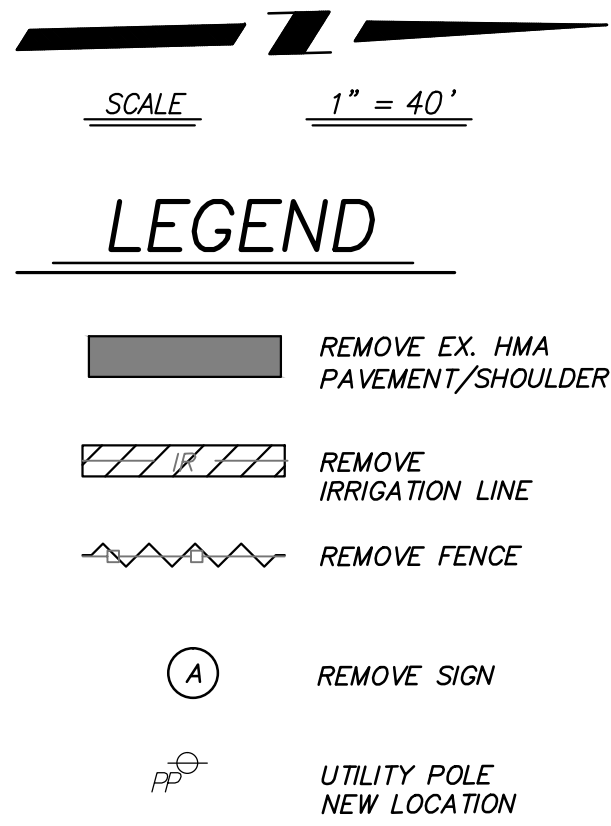


CONSTRUCTION DETAILS

IMPROVEMENT PLANS FOR:
KEYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO. 9621
DATE 09-05-2017
DR BY STN
CK BY SA
SURVEY CJ
CONST. PS
HOZ. SCALE: NA
VERT. SCALE: NA

SHEET NUMBER
6
OF 15 SHEETS



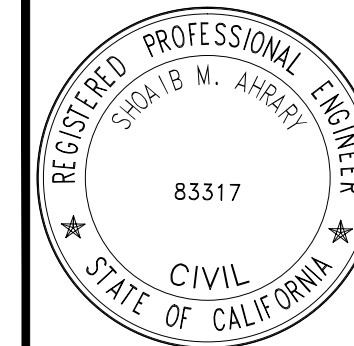
CONSTRUCTION NOTES:

- 1. STATION AND OFFSET ARE FROM "F" LINE AND "K" LINE.**
- 2. CONTRACTOR TO REMOVE ALL STRIPING, MARKINGS, MARKERS WITHIN THE PROJECT LIMITS PRIOR TO PAVING.**
- 3. FLASHING BEACON ASSEMBLY TO BE SALVAGED AND DELIVERED TO THE COUNTY PUBLIC WORKS:**

1716 MORGAN ROAD
MODESTO, CA 95358
- 4. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER TO INSTALL MAILBOX AT NEW LOCATION OR DIRECTED BY THE FIELD ENGINEER.**



**Call 811
AT LEAST TWO DAYS
BEFORE YOU DIG**

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
17116 MORGAN ROAD - WODESTO, CA 95358



REMOVAL PLAN

IMPROVEMENT PLANS FOR:
KEYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

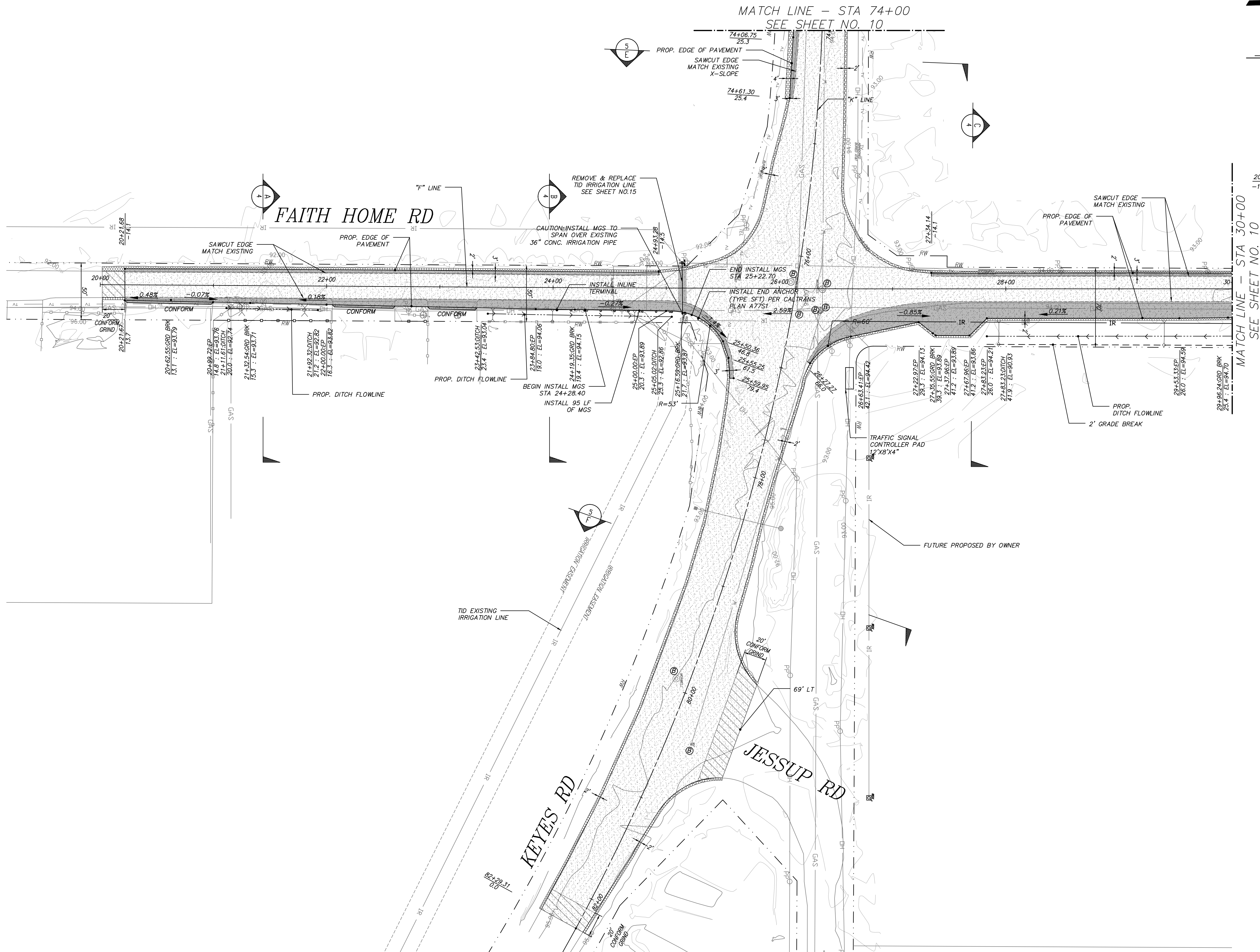
JOB NO. 9621
DATE 09-05-2017
DR BY STN
CK BY SA
SURVEY CJ
CONST. CB
HOZ. SCALE: NA
VERT. SCALE: NA

SHEET
NUMBER
7
OF 15 SHEETS



OF 15 SHEETS

Sep 21, 2017 1:10pm
LA:RMS:9621 - Keyes Road-Faith Home Intersection(Design)DWG:9621-PLAN-GRADING.dwg



SCALE 1" = 40'

LEGEND

- LANE/SHOULDER HMA PAVEMENT WIDENING & 0.17' HMA OVERLAY TYPE A
- 0.17' DEEP COLD PLANE & HMA OVERLAY, TYPE A
- 0.17' HMA OVERLAY, TYPE A
- 4" SHOULDER BACKING

20+00:EP -14.0: EL=99.00 STATION: EDGE OF PAVEMENT OFFSET, FINISHED ELEVATION

Ⓟ ADJUST SURVEY MONUMENT & UTILITY VALVE TO GRADE

CONSTRUCTION NOTES:

- SEE SHEET 15 FOR T.I.D. IRRIGATION LINE REMOVE & REPLACE CONSTRUCTION.
- STATION & OFFSET ARE FROM "F" LINE AND "K" LINE
- COVER AND PROTECT ALL UTILITIES VALVES, COVER, & SURVEY MONUMENTS
- GRD BRK = GRADE BREAK
DITCH = DITCH LOCATION & FLOWLINE
EP = EDGE OF PAVEMENT
EL = FINISHED ELEVATION
R = RADIUS



Call 811
AT LEAST TWO DAYS
BEFORE YOU DIG



NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

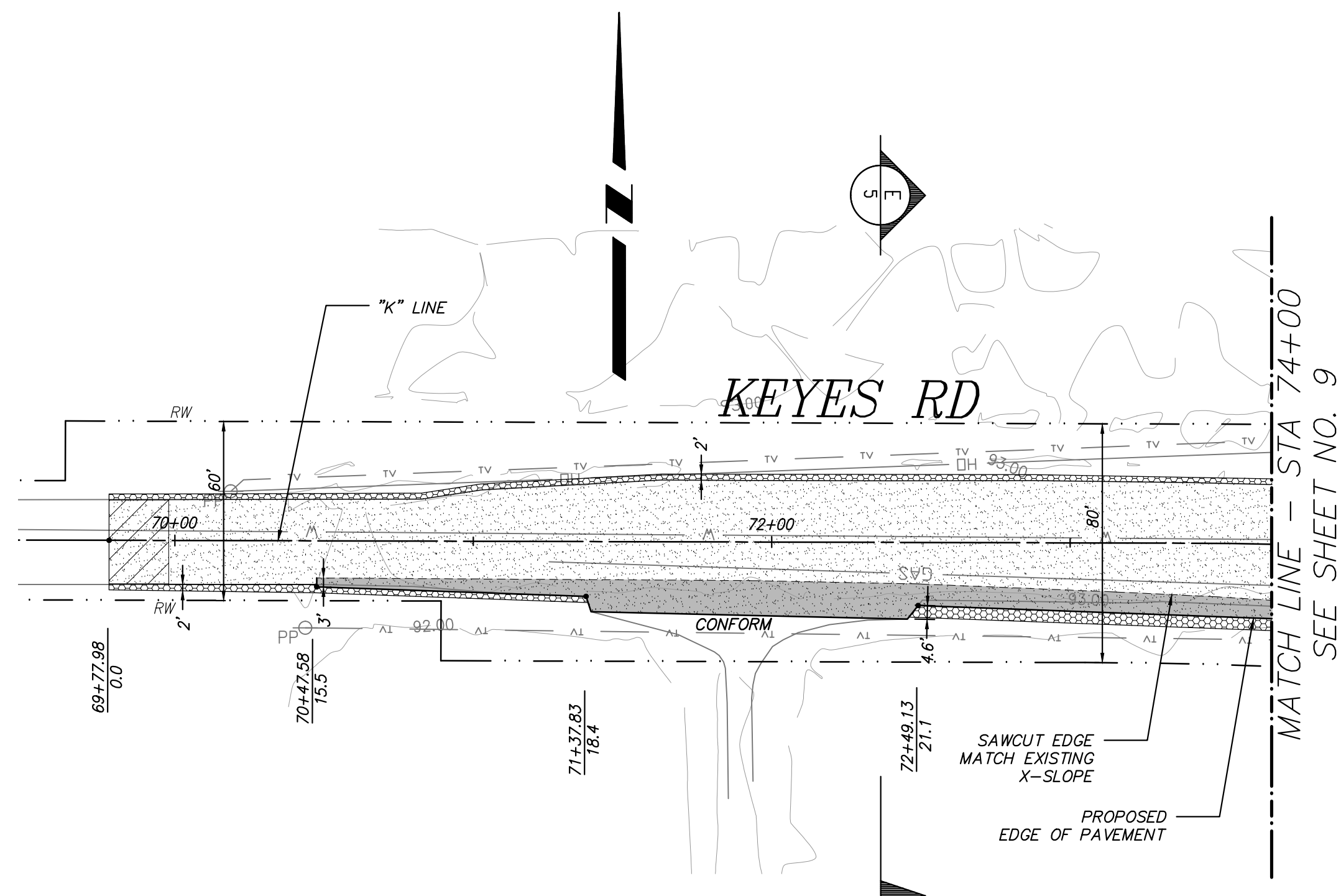
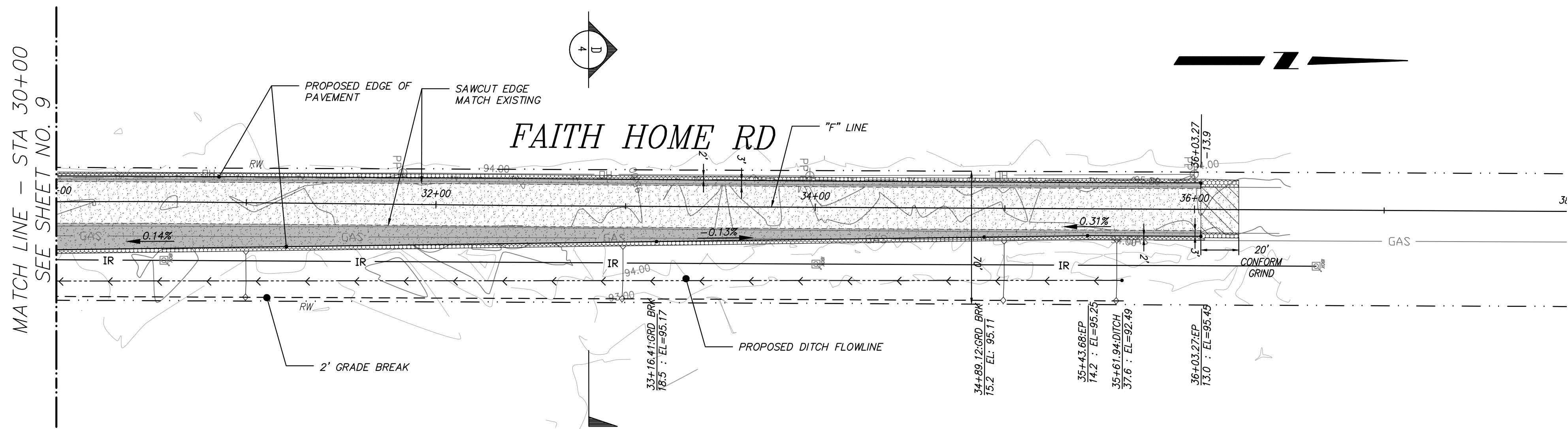


GRADING PLAN

IMPROVEMENT PLANS FOR:
KEYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO. 9621
DATE 09-05-2017
DR BY STN
CK BY SA
SURVEY CJ
CONST. PS
HOZ. SCALE: NA
VERT. SCALE: NA

SHEET NUMBER
9
OF 15 SHEETS



SCALE 1" = 40'

LEGEND

- LANE/SHOULDER HMA PAVEMENT WIDENING & 0.17' HMA OVERLAY, TYPE A
- 0.17" DEEP COLD PLANE & HMA OVERLAY, TYPE A
- 0.17" HMA OVERLAY, TYPE A
- 4" SHOULDER BACKING

20+00:EP
-14.0: EL=99.00

STATION: EDGE OF PAVEMENT
OFFSET, FINISHED ELEVATION

- CONSTRUCTION NOTES:
1. STATION & OFFSET ARE FROM "F" LINE AND "K" LINE
 2. GRD BRK = GRADE BREAK
DITCH = DITCH LOCATION & FLOWLINE
EP = EDGE OF PAVEMENT
EL = FINISHED ELEVATION
R = RADIUS



NO	DESCRIPTIONS	REVISIONS	
		DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



GRADING PLAN	IMPROVEMENT PLANS FOR: KEYES ROAD AT FAITH HOME ROAD INTERSECTION IMPROVEMENTS STANISLAUS COUNTY, CALIFORNIA
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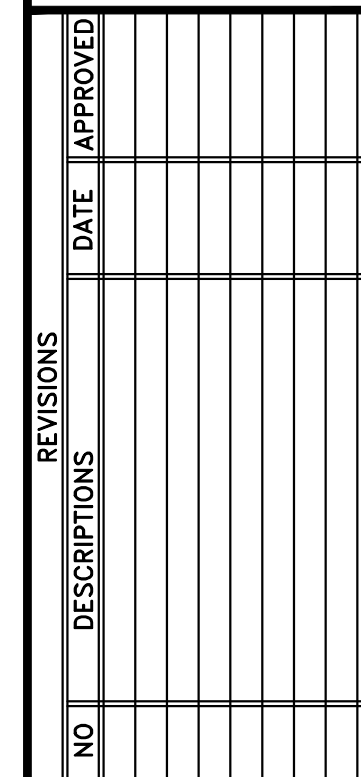
JOB NO. 9621
DATE: 09-05-2017
DR BY: STN
OK BY: SA
SURVEY: CJ
CONST: PS
HOZ. SCALE: NA
VERT. SCALE: NA

SHEET
NUMBER
10
OF 15 SHEETS



LEGEND

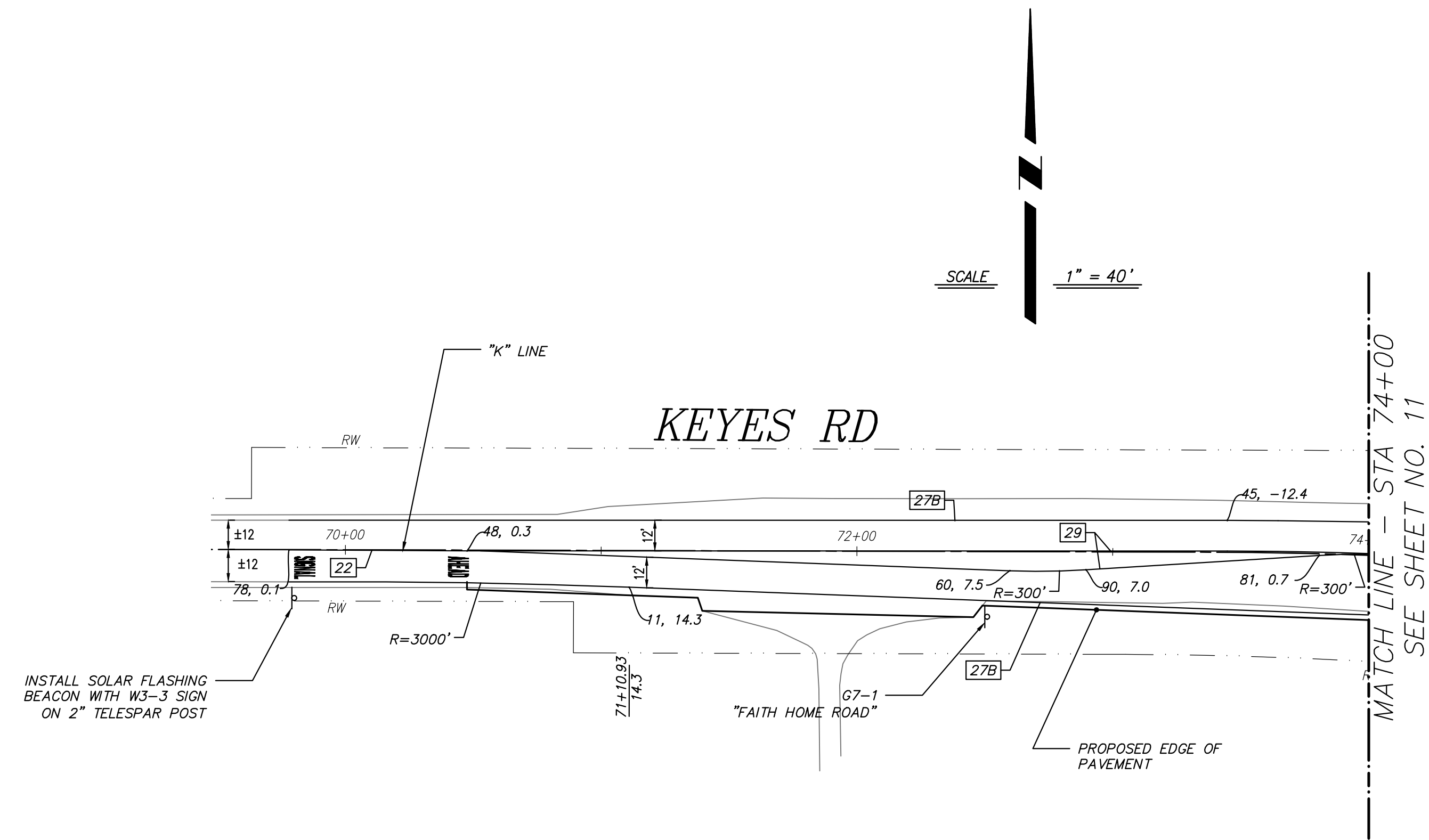
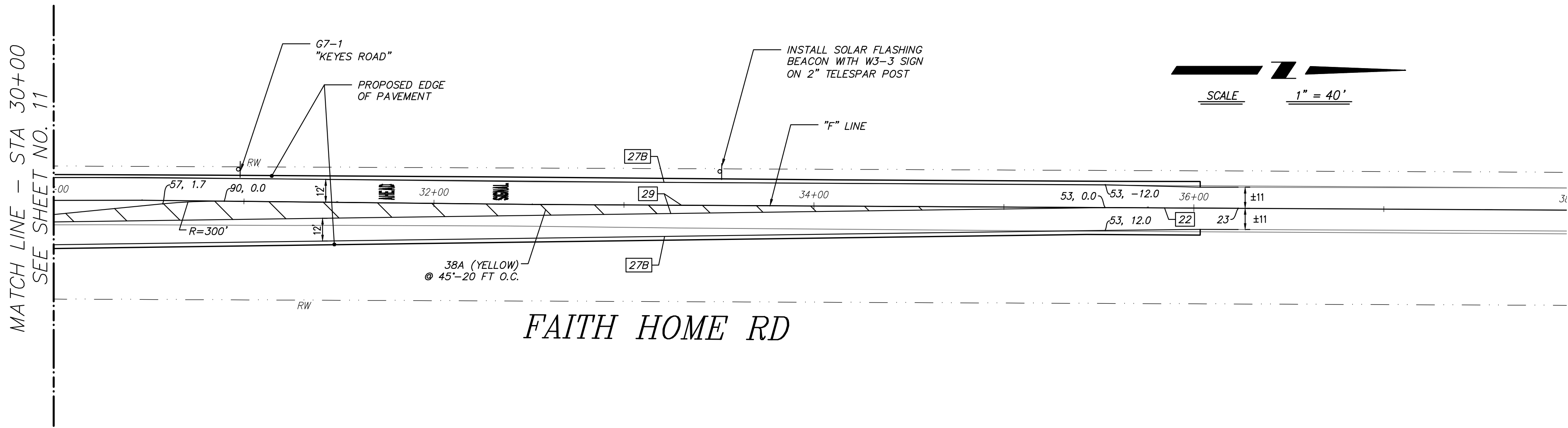
- CONSTRUCTION NOTES:
1. STATION & OFFSET ARE FROM "F" LINE AND "K" LINE.



STRIPING PLAN

JOB NO. 9621
DATE 09-05-2017
DR BY STN
CK BY SA
SURVEY CJ
CONST. DL
HOZ. SCALE: NA
VERT. SCALE: NA

SHEET
NUMBER
11
OF 15 SHEETS



LEGEND

- PROPOSED
ROADWAY SIGN
- CALTRANS STRIPING DETAIL NO.
- STATION, REGION, OFFSET
DISTANCE
- 12" WIDE WHITE LIMIT LINE
- TYPE III (L) ARROW PER
CALTRANS STD PLAN A24B
- CALTRANS STD PLAN A24D

CONSTRUCTION NOTES:
1. STATION & OFFSET ARE FROM "F"
LINE AND "K" LINE.



NO	DESCRIPTIONS	REVISIONS	
		DATE	APPROVED

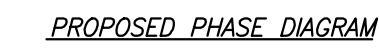
STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



STRIPING PLAN
IMPROVEMENT PLANS FOR:
KEYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO. 9621
DATE: 09-05-2017
DR BY: STN
OK BY: SA
SURVEY: CJ
CONST: DL
HOZ. SCALE: NA
VERT. SCALE: NA

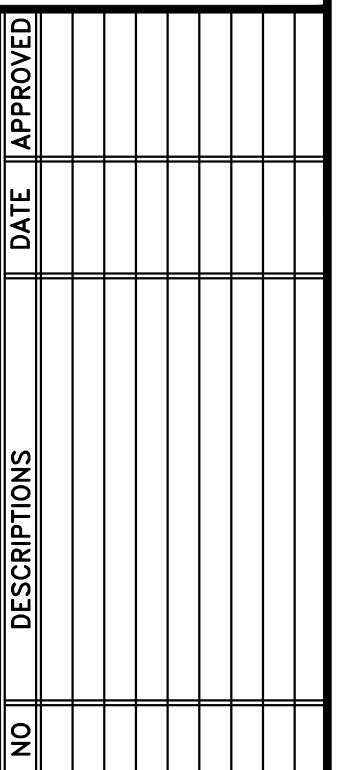
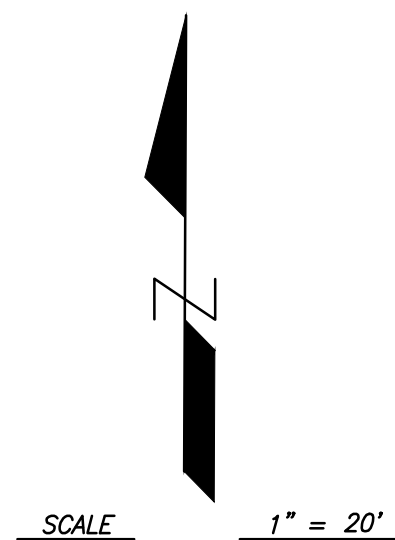
SHEET
NUMBER
12
OF 15 SHEETS


$$\begin{aligned} EVA &= \phi 2 + \phi 5 \\ EVB &= \phi 7 \\ EVC &= \phi 1 + \phi 6 \\ EVD &= \phi 8 \end{aligned}$$


- | | |
|----|--|
| 1 | FURNISH & INSTALL NEW TYPE 332L CABINET WITH GROUNDING ROD PER CALTRANS STD PLAN ES-3C. FRONT DOOR SHALL FACE EAST |
| 2 | FURNISH & INSTALL NEW SERVICE CABINET TESCO MODEL 27-22 METERED PANEL WITH BBS OR APPROVED EQUAL PER CALTRANS STD PLAN ES-2D. PROVIDE ITEMS 1-8,10,15-17,20,22 AND 23. DOOR OF CABINET SHALL FACE EAST |
| 3 | PLACE 12'x8'x4" CONCRETE PAD FOR CONTROLLER ASSEMBLY AND SERVICE EQUIPMENT PER CALTRANS STD PLAN ES-3C. CONCRETE PAD SHALL EXTEND 30" AROUND ALL CABINETS |
| 4 | INSTALL R73-3(CA) SIGN ON SIGNAL MAST ARM |
| 5 | INSTALL STREET NAME SIGN ON SIGNAL MAST ARM |
| 6 | SALVAGE FLASHING BEACONS AND DELIVER TO STANISLAUS COUNTY CORPORATION YARD AT 1716 MORGAN ROAD |
| 7 | RADAR TRIP LINES TO BE FIELD VERIFIED BY ENGINEER PRIOR TO TURN ON |
| 8 | POE PTZ IP CAMERA MOUNTING TO BE DETERMINED IN FIELD WITH ENGINEER |
| 9 | INSTALL 3 WIRE PHOTO ELECTRIC UNIT (PEU) ON POLE CAP |
| 10 | INSTALL 4-SECTION HEAD. SEE SHEET 14 FOR EQUIPMENT MOUNTING |

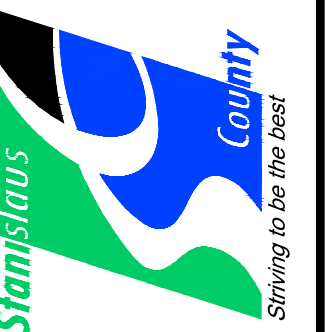
	EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT
	HYBRID RADAR/VIDEO DETECTOR
	IP PTZ CAMERA (*)
	MAST ARM MOUNTED SIGN

(*) IP PTZ CAMERA SHALL BE PELCO BRAND MODEL SPECTRA 1080P S5230-SERIES NETWORK DOME POSITIONING CAMERA OR APPROVED EQUAL



STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358



TRAFFIC SIGNAL PLAN

KEYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO. 9621
 DATE 09-05-2017
 DR BY STN
 CK BY SA
 SURVEY RA
 CONST. DL
 HOZ. SCALE: NA
 VERT. SCALE: NA



**Call 811
AT LEAST TWO DAYS
BEFORE YOU DIG**

SHEET
NUMBER
13
OF 15 SHEETS

CONDUCTOR SCHEDULE

AWG SIZE OR CABLE SIZE	POLE	PHASES	CONDUIT SIZE AND RUN NUMBER													
			△1 2-4"	△2 2-4"	△3 3"	△4 4"	△5 3"	△6 4"	△7 4"	△8 3"	△9 4"	△10 3"	△11 2"	△12 2"	△13 2"	
VEH. 5' CSC	(A) 05, 06		2	2												
	(B) 02, 05		3	3					3							
	(C) 07		1	1					1	1						
	(D) 01, 02		2	2					2	2	2					
	(E) 01, 06		2	2	2	2	2									
	(F) 07, 08		2	2	2	2										
	(G) 08		1	1	1											
		TOTAL CABLES	13	13	5	4	2	6	3	2						
#2	SERVICE										3		3			
#4	SIGNAL POWER															
#8	SAFETY LIGHTING		2	2	2		2	2	2			2		2		
#8	GROUNDING WIRE	1	1	1	1	1	1	1	1	1	1		1	1		
#14	PHOTOELECTRIC CONTROL	3	3													
	EMERGENCY VEHICLE PREEMPTION	4	4	2	1	1	2	1								
	CAT 5e (SHIELDED)	2	2	1			1									
	(SAMESEX COAX/3#16) VIDEO DETECTION	4	4	2	1	1	2	1								

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD				VEH. SIG. MTG		PED. SIGNAL	PPB	LUMINAIRE *	SNS **	NOTES (SEE SHEET NO. 13)
	TYPE	SIG. M.A.	"F" DIST	LUM M.A.	MAST ARM	POLE	MOUNTING	Ø			
(A)	15TS			15'	MAS	SV-2-TA		X X	250		9
(B)	29-5-100	50'	15'	15'	MAS	SV-2-TD		X X	250	FAITH HOME RD 6000	4578
(C)	23-4-100	45'	15'		MAS	SV-1-T		X X		KEYES ROAD 4000	457
(D)	21TS			15'	MAS	SV-2-TA		X X	310		
(E)	23-4-100	45'	15'		MAS	SV-1-T		X X		FAITH HOME RD 6000	457
(F)	15TS			15'	MAS	SV-2-TA		X X	250		
(G)	24-3-100	25'	15'	15'	MAS-4B	SV-1-T		X X	250	KEYES ROAD 4000	57

* LUMINAIRES SHALL BE LED TYPE:
250: LEOTEK GCM2-40H-MV-NW-3R-GY-950-PCR7-CR W/SC & RPB OR APPROVED EQUAL
310: LEOTEK GCL1-80G-MV-NW-4-GY-700-PCR7-CR W/SC & RPB OR APPROVED EQUAL

** INSTALL D3 STREET NAME SIGN (STREET NAME SPECIFIED IN TABLE) SNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND, 12" UPPERCASE, SERIES "D" TEXT ON XI DIAMOND GRADE SHEETING, 3M TYPE XI DG3 OR APPROVED EQUAL.

NOTES:

1. ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY OVERHEAD AND UNDERGROUND UTILITY CLEARANCE PRIOR TO ORDERING EQUIPMENT AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS. CONTRACTOR SHALL ARRANGE FOR UTILITY RELOCATION AS NECESSARY WITH APPROVAL OF ENGINEER.
3. ALL INDICATIONS SHALL BE 12" LED MODULES.

CONSTRUCTION NOTES:

- ① WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS, THESE DRAWINGS, THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2015 EDITION, AND THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), SIGNAL POLES/STANDARDS SHALL BE PER 2015 CALTRANS STANDARD PLANS ES-7A, ES-7B, ES-7E, ES-7F, ES-7G FOR SIGNAL POLES.
- ② THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
- ③ 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), BY CALLING 811, AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.
- ④ CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING OR DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.
- ⑤ CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.
- ⑥ ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS, AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO VERIFY THE MARKED LOCATIONS.
- ⑦ PULL BOXES SHALL BE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL.
- ⑧ ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1)-FOOT-WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, ALL CONDUIT ENTRIES INTO ADVANCED DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
- ⑨ ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY-IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
- ⑩ CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE RESIDENT ENGINEER.
- ⑪ ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
- ⑫ TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. VIDEO, HYBRID DETECTION, AND POWER CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND DETECTOR.
- ⑬ SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
- ⑭ ALL VEHICLE SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" (300 MM) DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.
- ⑮ THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPTICOM (GTT) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (711 TWO DIRECTION DETECTION, SINGLE CHANNEL) IN ACCORDANCE WITH THE SPECIAL PROVISIONS. EVP DETECTOR UNITS SHALL BE INSTALLED ON SIGNAL MAST ARMS AS SHOWN ON THE PLAN, CENTERED OVER THE NUMBER ONE THROUGH LANE, WITH BRACKETS APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR.
- ⑯ TONEABLE CONDUIT SHALL BE CHECKED FOR CONTINUITY AND BONDED TO EARTH GROUND.
- ⑰ CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.
- ⑱ ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.
- ⑲ ALL LUMINAIRE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE POLE HAND HOLE AT EACH POLE (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).
- ⑳ CAT 5E CABLES SHALL BE SHIELDED TYPE, REFER TO PROJECT SPECIAL PROVISIONS.

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358



TRAFFIC SIGNAL PLAN

IMPROVEMENT PLANS FOR:
EYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

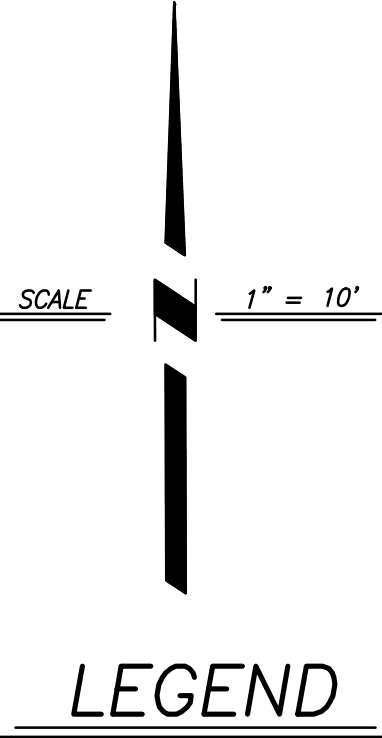
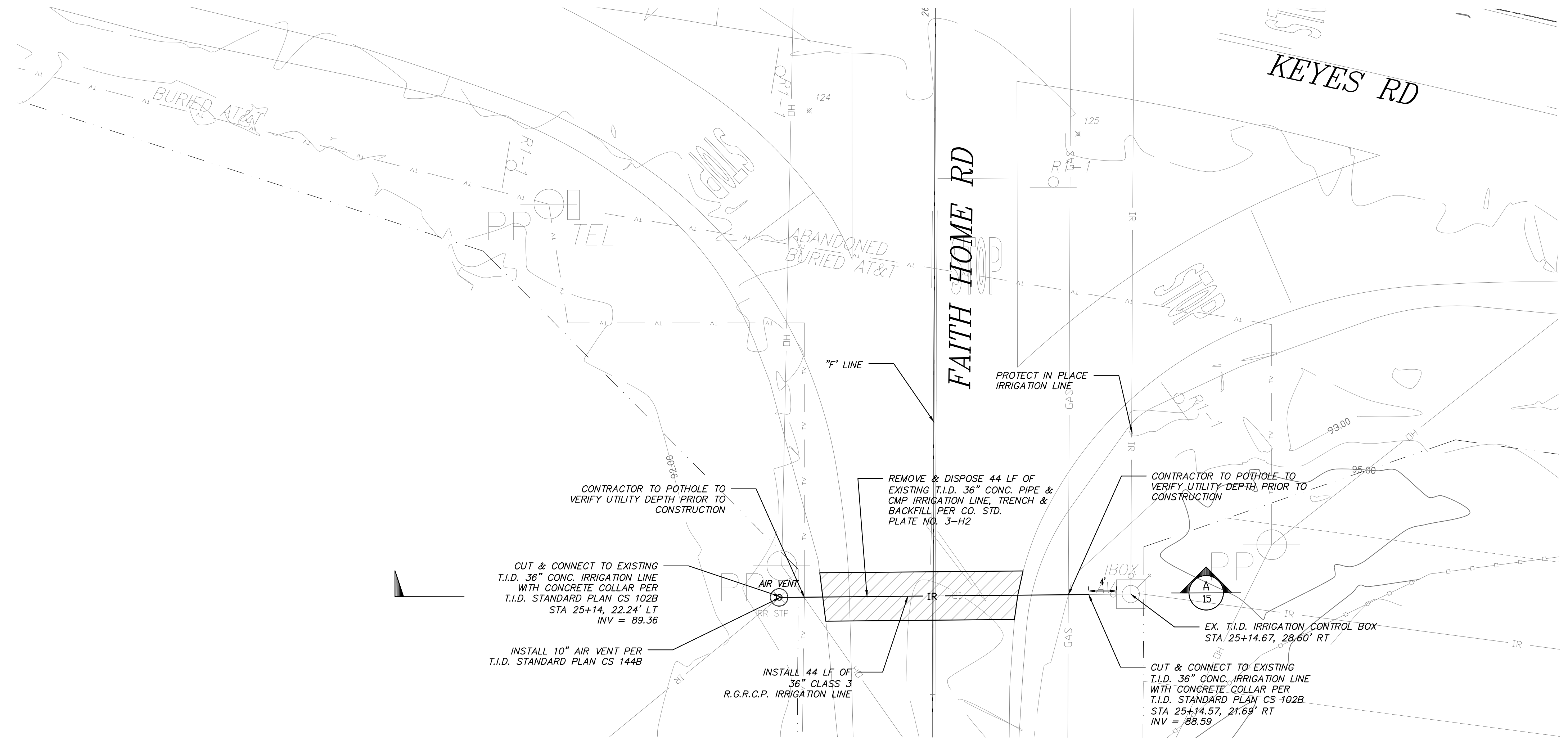
JOB NO. 9621
DATE 09-05-2017
DR BY STN
CK BY SA
SURVEY RA
CONST. DL
HOZ. SCALE: NA
VERT. SCALE: NA

SHEET
NUMBER
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OF 15 SHEETS

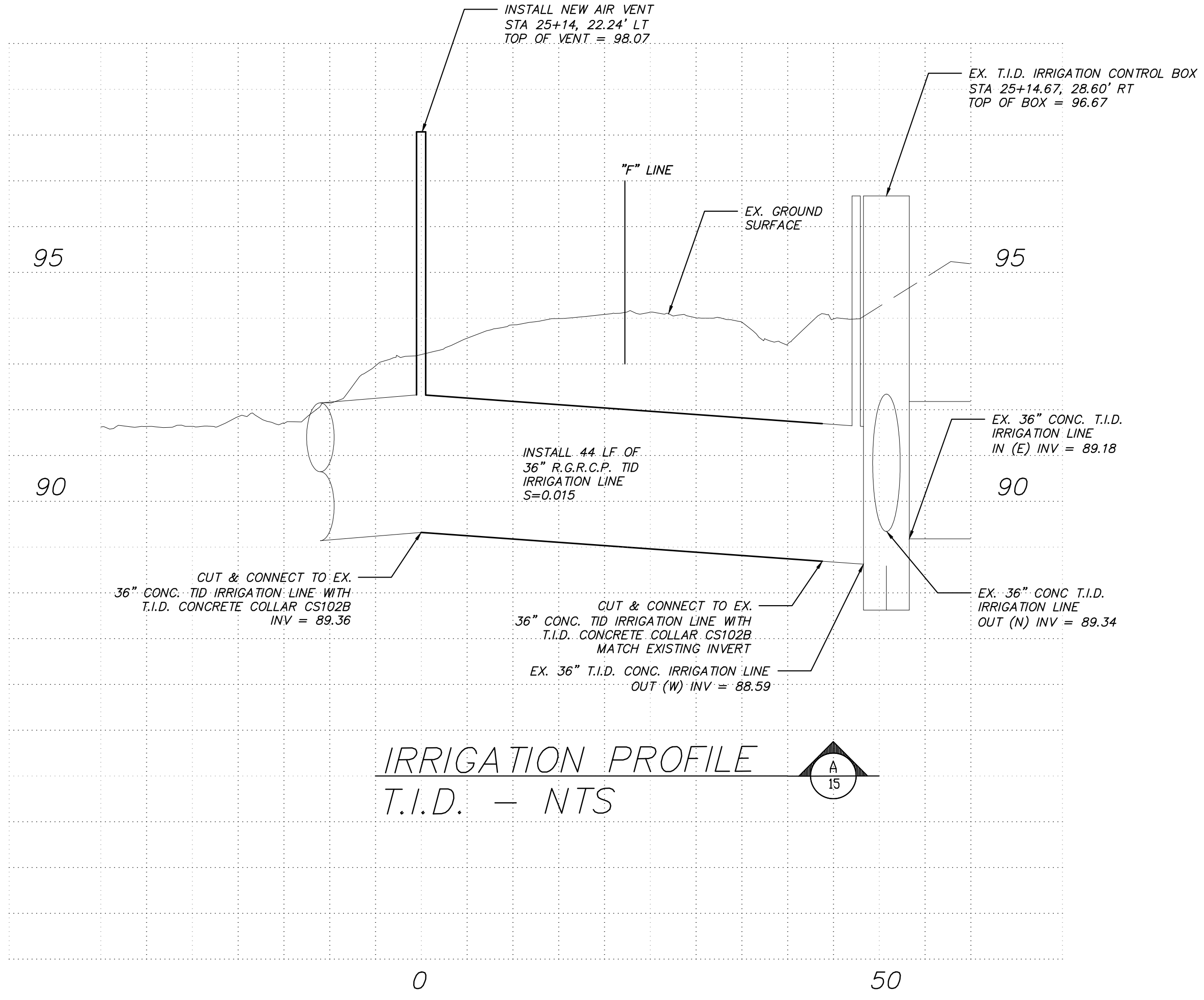


Know What's below.
Call before you dig.

**Call 811
AT LEAST TWO DAYS
BEFORE YOU DIG**



IRRIGATION LINE
TRENCH PATCH AREA



IRRIGATION PROFILE
T.I.D. - NTS



NO	REVISIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



T.I.D. IRRIGATION RELOCATION PLAN
IMPROVEMENT PLANS FOR:
KEYES ROAD AT FAITH HOME ROAD INTERSECTION
IMPROVEMENTS
STANISLAUS COUNTY, CALIFORNIA

JOB NO. 9621
DATE 09-05-2017
DR BY STN
CK BY SA
SURVEY RA
CONST. CB
HOZ. SCALE: NA
VERT. SCALE: NA

SHEET
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OF 15 SHEETS