



**CALIFORNIA  
AMERICAN WATER**

**TRANSMISSION MAINS FOR MONTEREY  
PENINSULA WATER SUPPLY PROJECT (MPWSP)**

**CASTROVILLE PIPELINE**

**DRAWING INDEX No. 1000-9009-G00**

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MECHANICAL	
SHEET NO.	TITLE
9009M00	VALVE TABLES

**CONFORMED**



SEPTEMBER 2019

GENERAL ABBREVIATIONS

A	AMPERE	E	EAST OR EXISTING	L	LENGTH	R	RADIUS, RISER	V, VERT	VERTICAL
AB	AGGREGATE BASE/ANCHOR BOLT	EA	EACH	LB	POUND	RCP	REINFORCED CONCRETE PIPE	VAC	VACUUM
AC	ASPHALT CONCRETE/AESBESTOS	EB	END OF BRIDGE/EAST BOUND	LEV	LEVEL	RC	REINFORCED CONCRETE	VC	VERTICAL CURVE
CEMENT		EC	END CURVE	LT	LEFT	RD	ROAD OR ROOF DRAIN	VCP	VITREOUS CLAY PIPE
ADAS	AUTOMATIC DATA ACQUISITION SYSTEM ADD	EE	EACH END	LONG	LONGITUDINAL	RED	REDUCER	VL	VALVE
	ADDITION(AL)	EF	EACH FACE	LN	LANE	REF	REFERENCE	VOL	VOLUME
AFF	ABOVE FINISHED FLOOR	EG	EXISTING GROUND	LP	LOW POINT, LOW PRESSURE	REINF	REINFORCEMENT	VPI	VERTICAL POINT OF I
ALT	ALTERNATE	EL	ELEVATION	LTG	LIGHTING	REM	REMOVABLE		NTERSECTION
AL	ALUMINUM	ELEC	ELECTRICAL			REQ'D, REQ	REQUIRED	V.I.F.	VERIFY IN FIELD
APPROX	APPROXIMATE	ELL	ELBOW	M, MTR	MOTOR	RPP	REDUCED PRESSURE PRINCIPLE	WB	WEST BOUND
ARCH	ARCHITECTURAL	EP	EDGE OF PAVEMENT	MAN	MANUAL	RT	RIGHT	WEF	WILDLIFE EXCLUSION FENCE
AREMA	AMERICAN RAILWAY ENGINEERING & MAINTENANCE-OF-WAY ASSOCIATION	EOD	EDGE OF DECK	MATL	MATERIAL	RUB	RUBBER	WI	WROUGHT IRON
	AIR RELEASE VALVE	EQ	EQUAL	MAX	MAXIMUM	ROW	RIGHT OF WAY	W/	WITH
ARV	AIR RELEASE VALVE	EQUIP	EQUIPMENT	MB	MACHINE BOLT	RWQCB	REGIONAL WATER QUALITY CONTROL BOARD	W/O	WITHOUT
ASR	AQUIFER STORAGE & RECOVERY	ES	EACH SIDE	MCU	MEASUREMENT CONTROL UNIT	R/W	RIGHT OF WAY	W	WIDTH, WEST, WATER, WIRE
ASSY	ASSEMBLY	ETW	EDGE OF TRAVELED WAY	MCWD	MARINA COAST WATER DISTRICT	RW	RECYCLED WATER	WD	WOOD
ATS	ANODE BED TEST STATION	EW	EACH WAY	MECH	MECHANICAL	S	SLOPE	WHT	WHITE
AV	AIR VALVE	(E)	EXISTING	MFR	MANUFACTURE(R)	SB	SOUTH BOUND	WS	WATER SURFACE
AVG	AVERAGE	EXP	EXPANSION	MH	MANHOLE	SCH	SCHEDULE	WSE	WATER SURFACE EXIST
AVMH	AIR VALVE MANHOLE			MIN	MINIMUM, MINUTE	SD	STORM DRAIN	WSL	WATER SURFACE LEVEL
AUX	AUXILIARY			MISC	MISCELLANEOUS	SDMH	STORM DRAIN MANHOLE	WSP	WELDED STEEL PIPE
				MPWSP	MONTEREY PENINSULA WATER SUPPLY PROJECT	SECT	SECTION	WT	WATER TIGHT, WEIGHT
BC	BEGIN CURVE			MRWMD	MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT	SHT	SHEET	WW	WATER VALVE
BEG	BEGIN(NING)			MRWPCA	MONTEREY REGIONAL WATER POLLUTION CONTROL AGENCY	SIM	SIMILAR	YD	YARD
BF	BLIND FLANGE					SMWS	-----	1d	EMBEDMENT LENGTH
BFV	BUTTERFLY VALVE					SPEC	SPECIFICATION(S)	#	NUMBER
BG	BILLION GALLONS					SQ	SQUARE		
BLDG	BUILDING					SS	SANITARY SEWER/STAINLESS STEEL		
BLK	BLACK					SSMH	SANITARY SEWER MANHOLE		
BLVD	BOULEVARD					STA	STATION		
BO	BLOW OFF					STD	STANDARD		
BOMH	BLOW-OFF MANHOLE					STL	STEEL, STREET LIGHTING		
BOT	BOTTOM					STRUCT	STRUCTURE		
BOF	BOTTOM OF FOOTING					SURF	SURFACE		
BRG	BEARING					SW	SEA WATER		
						SVR	SALINAS VALLEY RETURN		
						SYM ABT	SYMMETRIC ABOUT		
C	CONDUIT					T	TREAD		
CAW	CALIFORNIA AMERICAN WATER					t	THICKNESS		
CAP	CAPACITY					T & B	TOP & BOTTOM		
CB	CATCH BASIN/CIRCUIT BREAKER					TAMC	TRANSPORTATION AGENCY OF MONTEREY COUNTY		
C/C, CC	CENTER TO CENTER					TEL	TELEPHONE/TELECOM		
CCSD	CASTROVILLE COMMUNITY SERVICES DISTRICT					TEMP	TEMPORARY		
℄	CENTER LINE					TO	TOP OF		
CDPH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH					TOC	TOP OF CURB, TOP OF CONCRETE		
						TOT	TOTAL		
CF	CUBIC FEET					TOW	TOP OF WALL		
CFS	CUBIC FEET PER SECOND					TYP	TYPICAL		
CI	CAST IRON					THK	THICK		
CIDH	CAST IN PLACE DRILLED HOLE					THRU	THROUGH		
CIR	CIRCLE					TS	TEST STATION		
CJ	CONSTRUCTION JOINT					TYP	TYPICAL		
CJP	COMPLETE JOINT PENETRATION					UG, U/G	UNDERGROUND		
CKT. NO.	CIRCUIT NUMBER					UGE	UNDERGROUND ELECTRICAL		
OK P	CHECKER PLATE L					UON	UNLESS OTHERWISE NOTED		
CLR	CLEARANCE					U/N, U.O.N.	UNLESS OTHERWISE NOTED		
CLSM	CONTROLLED LOW STRENGTH MATERIAL								
CMP	CORRUGATED METAL PIPE								
CO	CLEAN OUT								
COMM	COMMUNICATION								
CONC	CONCRETE								
CONN	CONNECTION								
COND	CONDUIT								
CONT	CONTINUE/CONTINUOUS								
CONST	CONSTRUCTION								
CPLG	COUPLING								
CSIP	CASTROVILLE SEAWATER INTRUSION PROJECT								
CSUMB	CALIFORNIA STATE UNIVERSITY MONTEREY BAY								
CTE	COAL TAR ENAMEL								
CTEL	CONNECT TO EXISTING LINE								
CTR	CENTER D DEPTH/DIAMETER								
DET	DETAIL								
DFT	DRY FILL THICKNESS								
DI	DRAINAGE INLET/DUCTILE IRON								
DIA, Ø	DIAMETER								
DIP	DUCTILE IRON PIPE								
DIAG	DIAGRAM								
DIM	DIMENSION								
DIP	DUCTILE IRON PIPE								
DN	DOWN								
DR	DRAINAGE, DOOR								
DWG	DRAWING								

CONFORMED



REVISIONS	TRANSMISSION MAINS FOR MPWSP GENERAL CASTROVILLE PIPELINE GENERAL ABBREVIATIONS	
	CALIFORNIA AMERICAN WATER	
	AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	
	DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
	USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	9009G01

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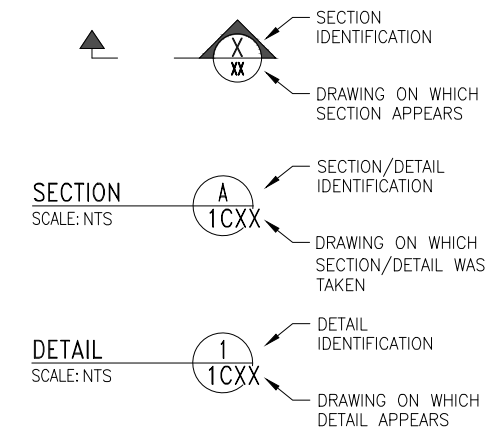
GENERAL LEGEND

	WATER METER
	EXISTING CONTROL POINT
	NEW CONTROL POINT/ ELEVATION POINT
	TEST PITS
	EXPLORATORY BORING
	PIEZOMETERS
	PIPE W/ CAP
	SPOT ELEVATION
	TREE, SHRUB
	WATER LEVEL ELEVATION
	SLOPE GRADIENT (HOR. : VERT.)
	FLOW LINE
	CUT SLOPE
	FILL SLOPE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	GATE POST
	GUY ANCHOR
	POWER POLE, STEEL
	WATER PIPE MANHOLE/AIR RELEASE VALVE
	CHECK VALVE
	REDUCER
	UTILITY POLE
	EXISTING INCLINOMETER
	TELEPHONE POLE
	BFV COVER AND CONCRETE PAD
	GAS VALVE
	TELEPHONE MH OR BOX
	COMMUNICATION BOX
	TRANSMISSION TOWER
	SANITARY SEWER RODDING INLET
	WATER VALVE
	BLOWOFF VALVE
	COMBINATION AIR RELEASE VALVE
	ANODE
	CLEAN-OUT
	RAILROAD SIGNAL

	STORM DRAIN MANHOLE
	SEWER MANHOLE
	EXISTING WATER VALVE
	FIRE HYDRANT
	WATER STRUCTURE
	WELL
	CATCH BASIN
	TRANSFORMER W/PAD
	TRANSFORMER SUBSURFACE
	ELECTRICAL BOX
	STREETLIGHT
	STREETLIGHT AND UTILITY POLE
	MANHOLE ELECTRICAL
	ELECTRIC TEST STATION
	ROCK SURFACE
	NATURAL GROUND OR GRADE
	BACKFILL
	AC BERM
	CONCRETE
	STAGING AREA
	(E) UTILITY REMOVED FROM SERVICE
	(E) UTILITY REMOVED FROM SERVICE AND FILLED WITH CONCRETE SLURRY
	AGGREGATE / BALLAST
	HYDROSEED
	CLEAR & GRUB
	EXISTING TO BE DEMOLISHED
	(N) ASPHALTIC CONCRETE
	AGGREGATE BASE
	(E) ASPHALTIC CONCRETE
	FOUNDATION STONE
	INITIAL BACKFILL
	UNDISTURBED SOIL
	BUILDING

	FENCE
	COASTAL BOUNDARY
	TAMC RIGHT OF WAY
	CALTRANS RIGHT OF WAY
	PARCEL BOUNDARY
	CITY LIMITS
	LIMITS OF WORK
	GAS LINE
	WATER LINE
	NEW WATER LINE
	RECYCLED WATER LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE
	ELECTRICAL LINE
	ELECTRICAL OVERHEAD LINE
	TEL/AT&T LINE
	IRRIGATION LINE
	DRAIN SWALE
	COMCAST UNDERGROUND
	COMCAST OVERHEAD
	SANITARY SEWER FORCED MAIN
	TELEPHONE LINE
	BRINE LINE WASTE WATER
	FIBER OPTIC
	FORCED MAIN
	SANITARY OUTFALL
	TILE DRAIN

TYPICAL SECTION/DETAIL NUMBERING SYSTEM



CONFORMED



REVISIONS	<b>TRANSMISSION MAINS FOR MPWSP GENERAL CASTROVILLE PIPELINE GENERAL LEGEND</b>	
	CALIFORNIA AMERICAN WATER	
	AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	
	DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES		<b>9009G02</b>

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**GENERAL NOTES:**

- DIMENSIONS TAKE PRECEDENCE OVER GENERAL NOTES, TYPICAL DETAILS AND SCALED DETAILS.
- THE UNDERGROUND UTILITIES SHOWN IN PLAN DRAWINGS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES. CONTRACTOR SHALL POTHOLE EXISTING PIPELINES TO VERIFY THE VERTICAL AND HORIZONTAL ALIGNMENT PRIOR TO PERFORMING EARTHWORK ADJACENT TO SAID PIPELINES. CONTACT USA (1-800-227-2600) PRIOR TO CONSTRUCTION.
- THE OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF UTILITY INFORMATION. THE CONTRACTOR SHALL EXERCISE CAUTION WHILE EXCAVATING AND SHALL PROTECT ALL EXISTING SERVICES FROM DAMAGE DUE TO HIS OPERATIONS. SUPPORT EXISTING UTILITIES THAT ARE EXPOSED DUE TO CONSTRUCTION ACTIVITIES.
- UTILITY LATERALS SUCH AS WATER, GAS AND SEWER LATERALS ARE GENERALLY NOT SHOWN. IF THEY ARE DISPLAYED, LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL LOCATE AND PROTECT UTILITY LATERALS.
- A. SEWER LINES BASED ON MAPS PROVIDED BY MRWPCA  
B. UTILITIES IN TAMC ROW ARE FROM CADD PROVIDED BY TAMC, SURVEYED BY TOWILL IN 2005.

**SURVEY NOTES:**

- THE COORDINATES FOR THIS PROJECT ARE DERIVED FROM GPS OBSERVATIONS OVER A TWO MONTH PERIOD FROM NOVEMBER TO DECEMBER OF 2014. EQUIPMENT UTILIZED WAS A LEICA GS-14 GPS ROVER AND LEICA 1200 GPS ROVER. THE MEASUREMENTS WERE OBTAINED USING THE LEICA REAL TIME NETWORK, SMARTNET, AS THE BASE STATION. DATA WAS DOWNLOADED AND POST PROCESSED FOR THE SMARTNET-MONTEREY BASE STATION AND THREE LOCAL CORS STATIONS FOR TWO SEPARATE DAYS. THESE OBSERVATIONS WERE POST PROCESSED TO OBTAIN COORDINATES FOR THE MONTEREY BASE STATION.
- THE COORDINATES WERE PROCESSED FROM THE PUBLISHED DATUM FOR THE CONTROL STATION (NAD 83(2011) EPOCH 2010.00) TO A MORE CURRENT DATUM (NAD 83(2011) EPOCH 2014.25) USING THE HORIZONTAL TIME-DEPENDANT POSITIONING (HTDP) TOOL PROVIDED BY NGS ON THEIR WEB SITE.
- EACH CONTROL POINT IS MEASURED AT LEAST FOUR TIMES AT TWO DIFFERENT TIMES OF DAY TO CAPTURE DIFFERENT SATELLITE CONFIGURATIONS. THE DATA WAS ANALYZED TO BE SURE THAT THE MEAN VALUES OBTAINED USING LEICA SMARTWORK SOFTWARE FOR ALL COORDINATES WERE WITHIN LESS THAN +/-0.035' HORIZONTALLY AND +/-0.05' VERTICALLY.
- ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) AT NATIONAL GEODETIC SURVEY (NGS) BENCHMARK PID GU4116 DESIGNATED 941 3450M TIDAL WITH ELEVATION OF 11.70 FEET.
- BASIS OF BEARING  
BEARINGS ARE BASED ON THE MERIDIAN OF THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 4, NAD 83 (2011), EPOCH 2014.25. THEY ARE DERIVED FROM NATIONAL GEODETIC SURVEY CONTINUOUSLY OPERATING REFERENCE STATIONS (NGS CORS) DATA PROCESSED USING HORIZONTAL TIME-DEPENDANT POSITIONING (HTDP) FROM NAD 83(2011) EPOCH 2010.00 TO NAD 83(2011) EPOCH 2014.25.
- CORS STATIONS UTILIZED WERE ELKHORN SLOUGH (D17526 DESIGNATION - ELKHRNSLGHCN2005 CORS ARP), SANTA LUCIA (DH3876 DESIGNATION - SANTALUCIACN2004 CORS ARP) AND HOPKINS (DN7560 DESIGNATION - HDPKINSSTNCN2006 CORS ARP).

**TOPOGRAPHICAL MAPPING**

- THE TOPOGRAPHIC/PLANIMETRIC MAPPING SHOWN HEREIN WAS COMPILED BY AERIAL PHOTOMAPPING SERVICES USING AERIAL PHOTOGRAPHY DATED 12/23/14 AT THE REQUEST OF URS/AECOM. THE STRIP MAPPING BEGINS AT PACIFIC GROVE TO THE SOUTH AND CONTINUES NORTH WHERE IT ENDS AT THE MRWPCA. CONTROL WAS PROVIDED BY POLARIS CONSULTING, CARMEL VALLEY CA. 831-659-9564.
- AERIAL PHOTOGRAPHY OUTSIDE THE PIPELINE 150 FEET IS FROM U.S. GEOLOGICAL SURVEY, ORTHORECTIFIED BY HJW GEOSPATIAL, INC. 2011. EXCEPT FOR THE GENERAL JIM MOORE BLVD. AREA. DIGITAL GLOBE GEOEYE-1 SATELLITE; ORTHORECTIFIED BY APOLLO IMAGING 2013. 0.5-METER PIXELS.

**UTILITY CONTACTS FOR PROJECT AREA**

AGENCY	TYPE	CONTACT	TITLE	PHONE	EMAIL
AT&T	COMMUNICATIONS	JANICE COMASKEY	ADMIN MANAGER CONSTRUCTION & ENGINEERING	(408) 635-8781	jc4363@att.com
CALIFORNIA AMERICAN WATER	WATER	DON MONETTE	ASSISTANT ENGINEERING MANAGER	(831) 646-3290	donald.monette@amwater.com
COMCAST	COMMUNICATIONS	MARK ROSE	CABLE CONTRACTOR	(831) 633-2392	mark.rose@cablecomllc.net
CASTROVILLE COMMUNITY SERVICES DISTRICT	WATER	ERIC TYNAN	GENERAL MANAGER	(831) 633-2560	eric@castrovillecsd.org
DOLE FRESH VEGETABLES 315 NEPONSET ROAD, SALINAS CA.	COMMERCIAL PROPERTY OWNER	JAMES WILKINSON	AG. MANAGER	(831) 682-8980	james.wilksn@dole.com
PG&E	GAS AND ELECTRIC	WEIDONG TAN	ENGINEERING & PLANNING DIV.	(831) 784-3510	wtk@pge.com
MONTEREY REGIONAL WATER POLLUTION CONTROL AGENCY	SEWER AND RECYCLED WATER	JENNIFER GONZALES	ENGINEERING MANAGER	(831) 883-6172	jennifer@mrwpc.com
MONTEREY COUNTY WATER RESOURCES AGENCY-O&M	RECYCLED WATER	MARK FOXWORTHY	ASSOCIATE ENGINEER	(813) 755-8984	foxworthyme1@monterey.ca.us
TAMC	RAILROAD	RICH DEAL	PRINCIPAL ENGINEER	(831) 775-4413	rich@tamcmonterey.org
TAMC AGENCY LEASES	RAILROAD	DAVE DELFINO	LEASE MANAGER	(831) 775-4408	
POLARIS	SURVEYORS	LYNN KOVACH	PROFESSIONAL LAND SURVEYOR	(831) 659-9564	lynn@polarislandsurveying.net

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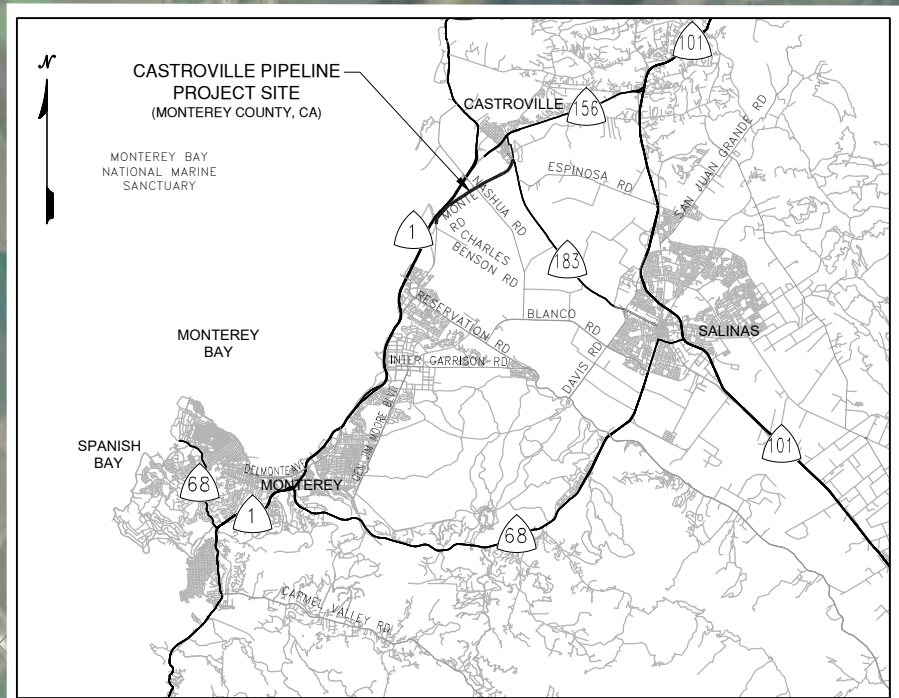
**CONFORMED**

REVISIONS	<b>TRANSMISSION MAINS FOR MPWSP GENERAL CASTROVILLE PIPELINE GENERAL NOTES</b>	
	CALIFORNIA AMERICAN WATER	
	AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	
	DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES		9009G03

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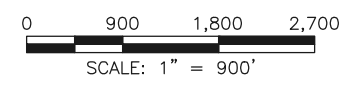


**KEY MAP**  
1"=900'



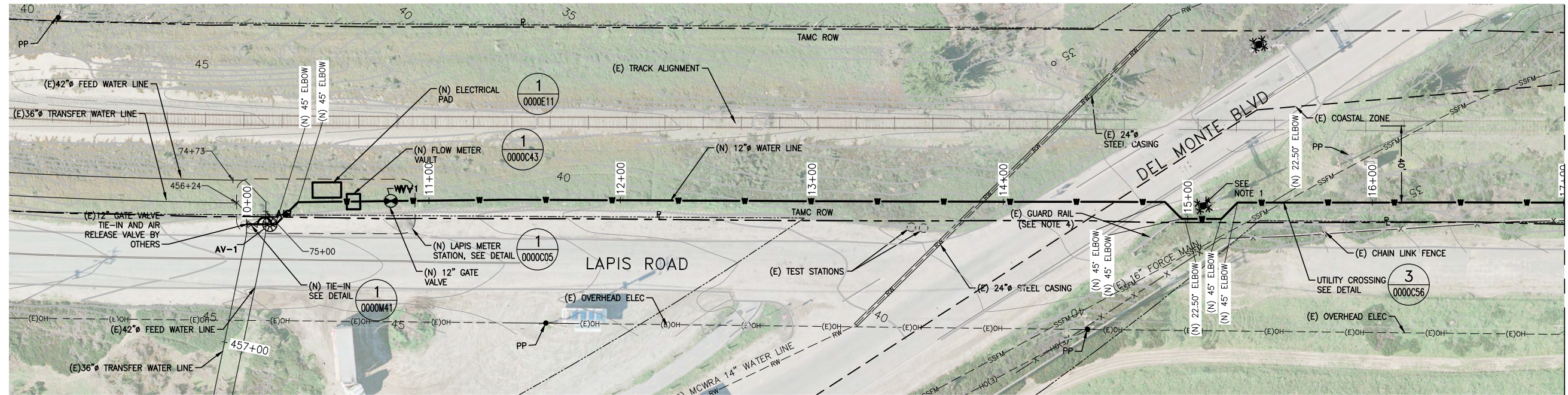
**SITE LOCATION MAP**  
NTS

**CONFORMED**

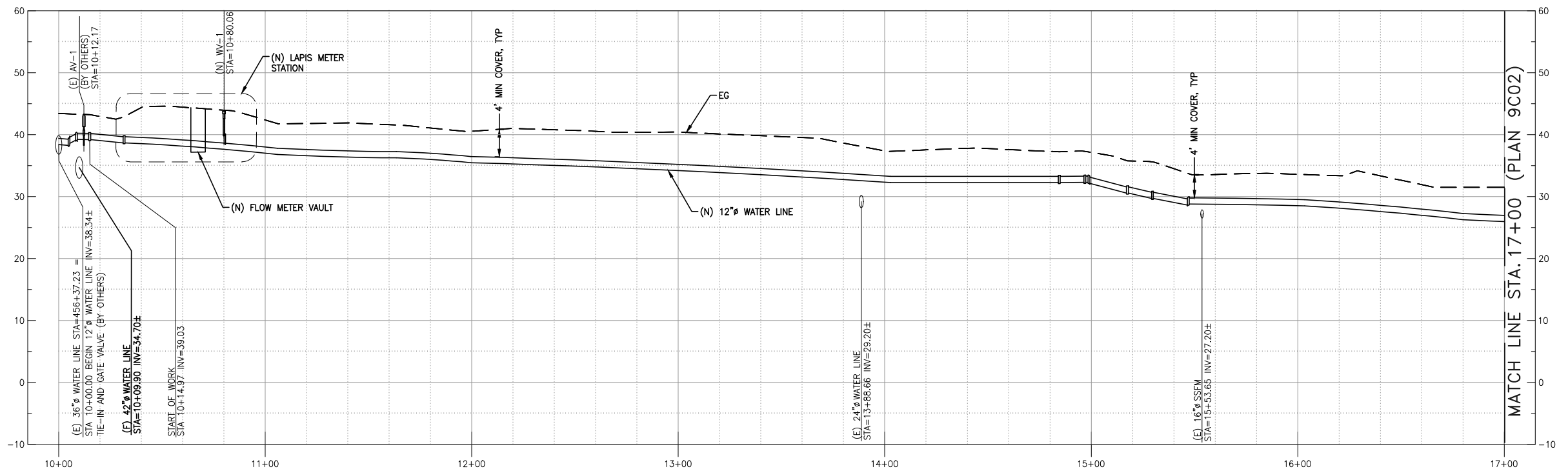


<p>REVISIONS</p>	<p><b>TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE KEY PLAN</b></p>	
	<p>CALIFORNIA AMERICAN WATER</p>	
	<p>AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612</p>	<p><b>AECOM</b> CALIFORNIA AMERICAN WATER</p>
	<p>DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH</p>	<p>DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN</p>
<p>USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES</p>		<p><b>9009C00</b></p>

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PLAN  
1"=30'

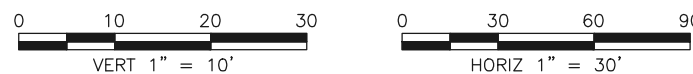


PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

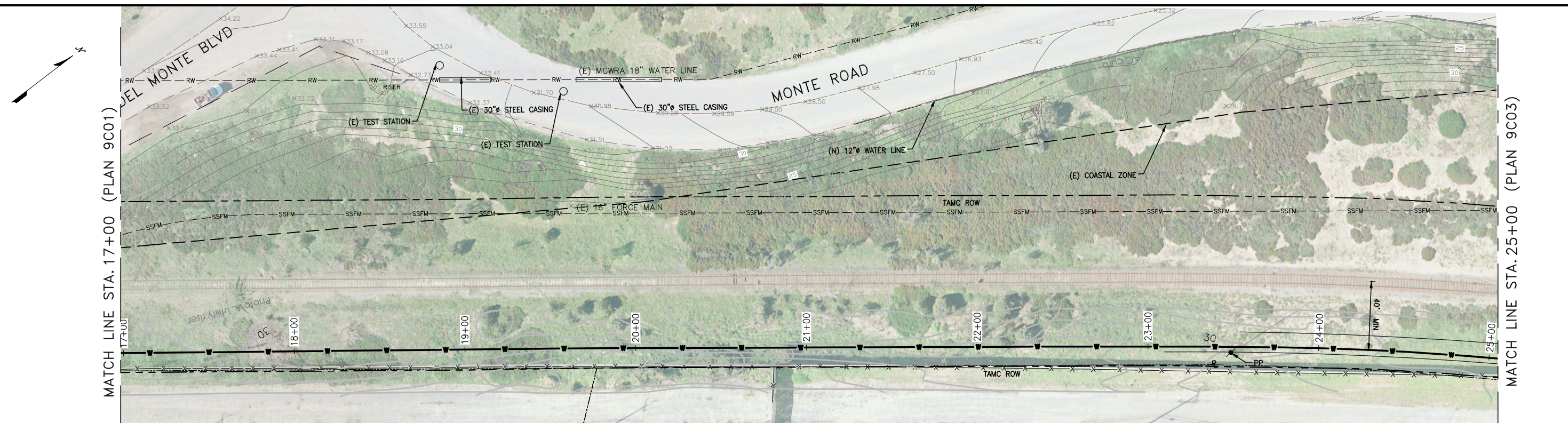
1. INSTALL PIPE MINIMUM 3 FEET FROM RAILROAD SIGNAL. PROTECT IN PLACE.
2. FOR INITIAL TIE IN, CLOSE 12" GATE VALVE, REMOVE 12" CAP FROM (E) LINE AND BEGIN PIPE INSTALLATION. PER DETAIL 0000M41.
3. INSTALL WV-1 MINIMUM 5 PIPE DIAMETERS AWAY FROM FLOW METER AND IN ACCORDANCE WITH FLOW METER MANUFACTURER RECOMMENDATIONS.
4. FOR GUARD RAIL, PROTECT IN PLACE OR REMOVE AND REPLACE IN KIND WITH NEW MATERIALS PER COUNTY AND TAMC STANDARDS.

**CONFORMED**

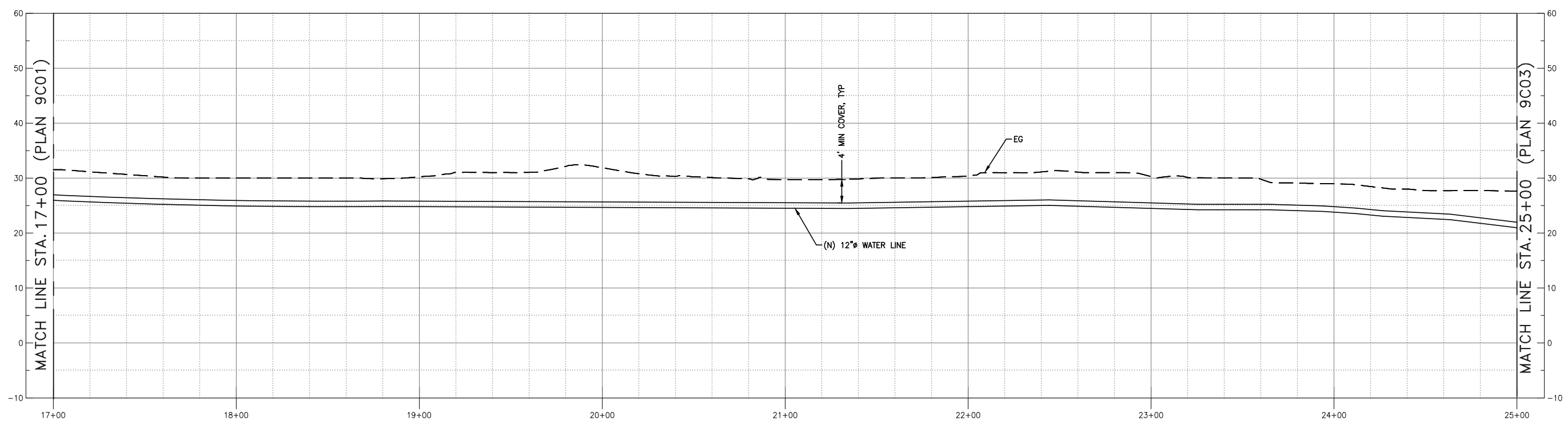


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 10+00 TO STA 17+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	<b>AECOM</b> CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C01</b>

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PLAN  
1"=30'



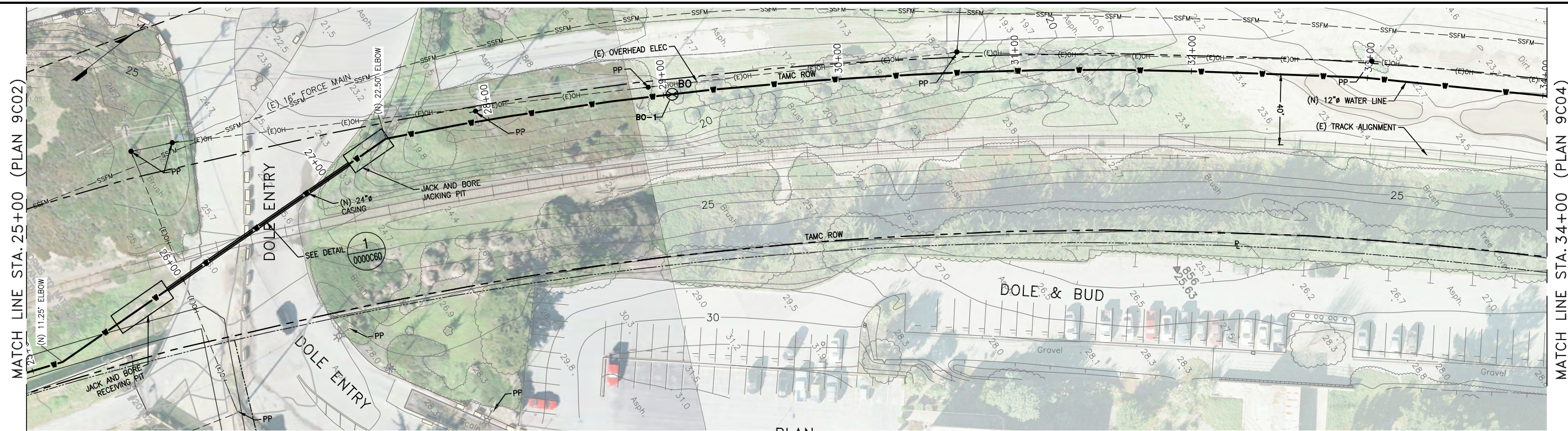
PROFILE  
HORIZ 1"=30', VERT 1"=10'

**CONFORMED**

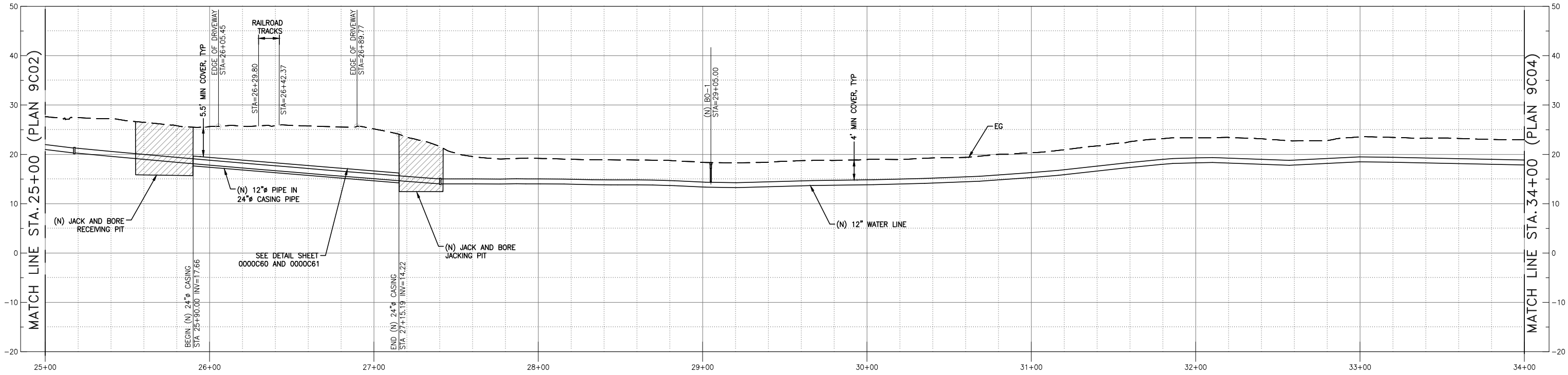


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 17+00 TO STA 25+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	<b>AECOM</b> CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C02</b>

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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

- SEE JACK AND BORE DETAILS SHEETS 0000C60 AND 0000C61. CONTRACTOR MAY REVERSE LAUNCH / RECEIVING PITS. CASING PIPE SHALL EXTEND ABOUT 10 FEET BEYOND EDGE OF DRIVEWAY. MAINTAIN MINIMUM 5.5 FEET COVER FOR A MINIMUM 40 FEET ON EACH SIDE OF CENTER LINE OF RAILROAD TRACKS.
- MAINTAIN CONTINUOUS DRIVEWAY ACCESS FOR DOLE.
- THE PIPELINE ALIGNMENT THIS SHEET IS USED BY DOLE CONTRACTOR /DRIVERS. COORDINATE PROTECTION OF WORK AND STAGING AREA WITH DOLE.
- JACK AND BORE SHALL COMPLY WITH AREMA STANDARDS.

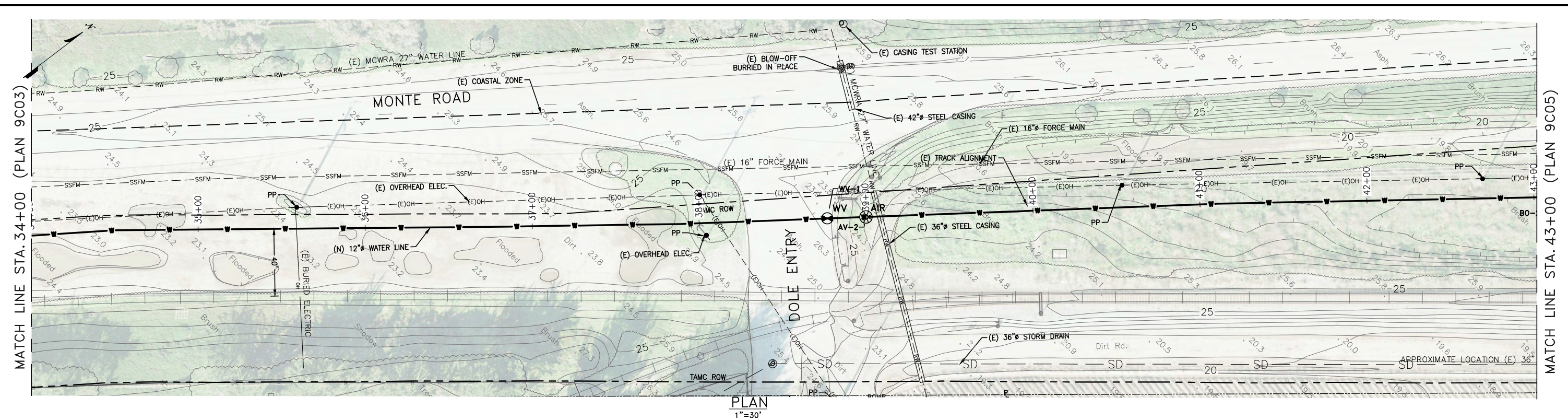
**CONFORMED**



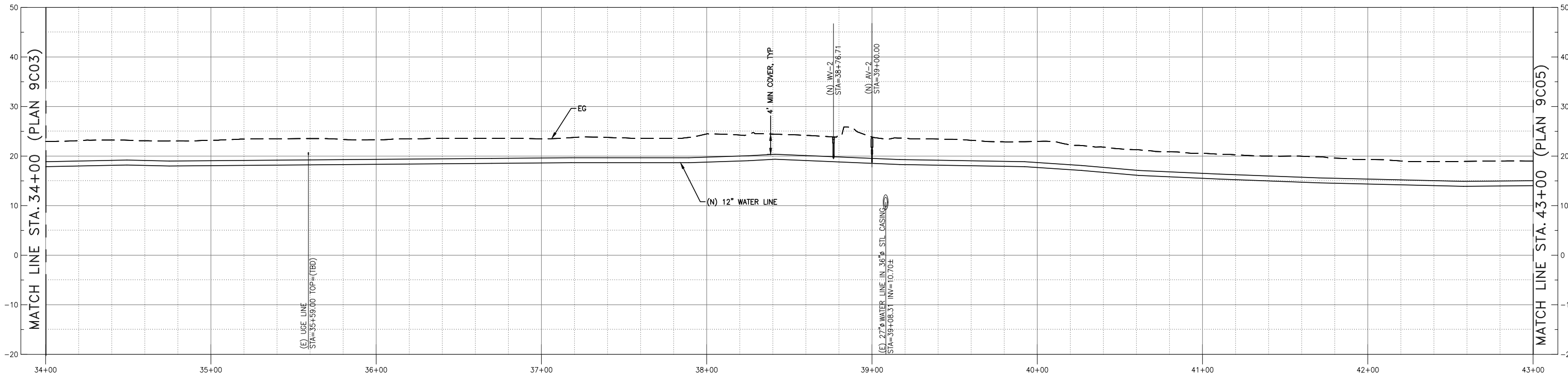
REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 25+00 TO STA 34+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	AECOM CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE PROJECT MARCH 2018 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	9009C03



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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

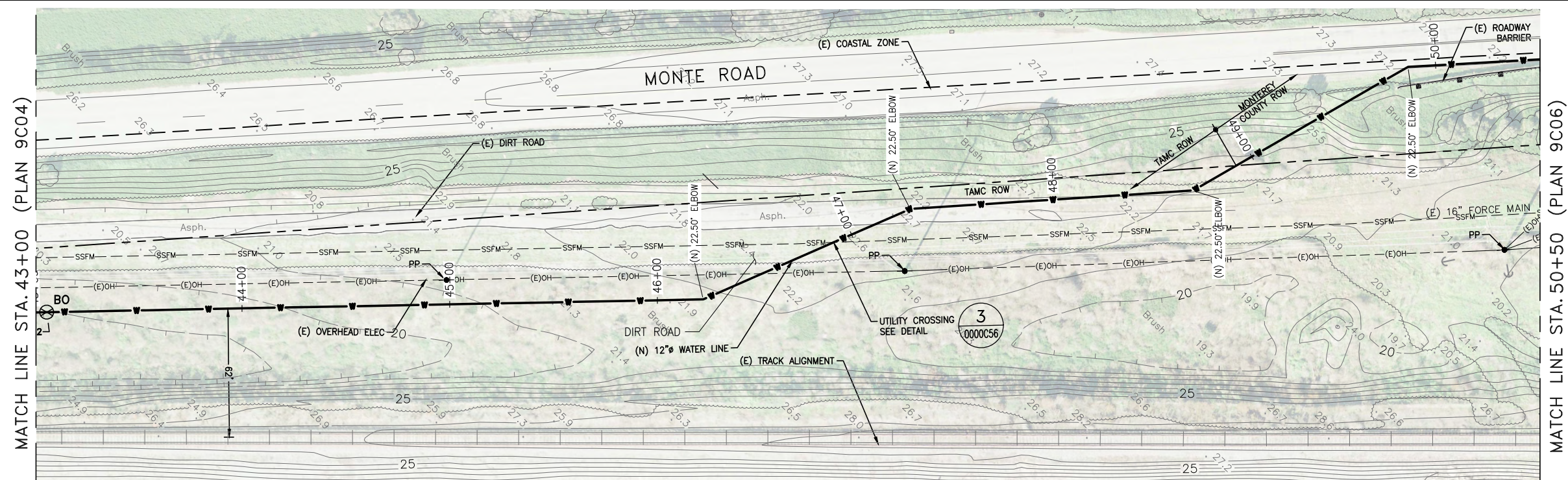
- NOTE:**
- COORDINATE TRENCHING THROUGH DOLE DRIVEWAY WITH DOLE AND OWNER.
  - THE PIPELINE ALIGNMENT THIS SHEET IS USED BY DOLE CONTRACTOR /DRIVERS. COORDINATE PROTECTION OF WORK AND STAGING AREA WITH DOLE.

**CONFORMED**

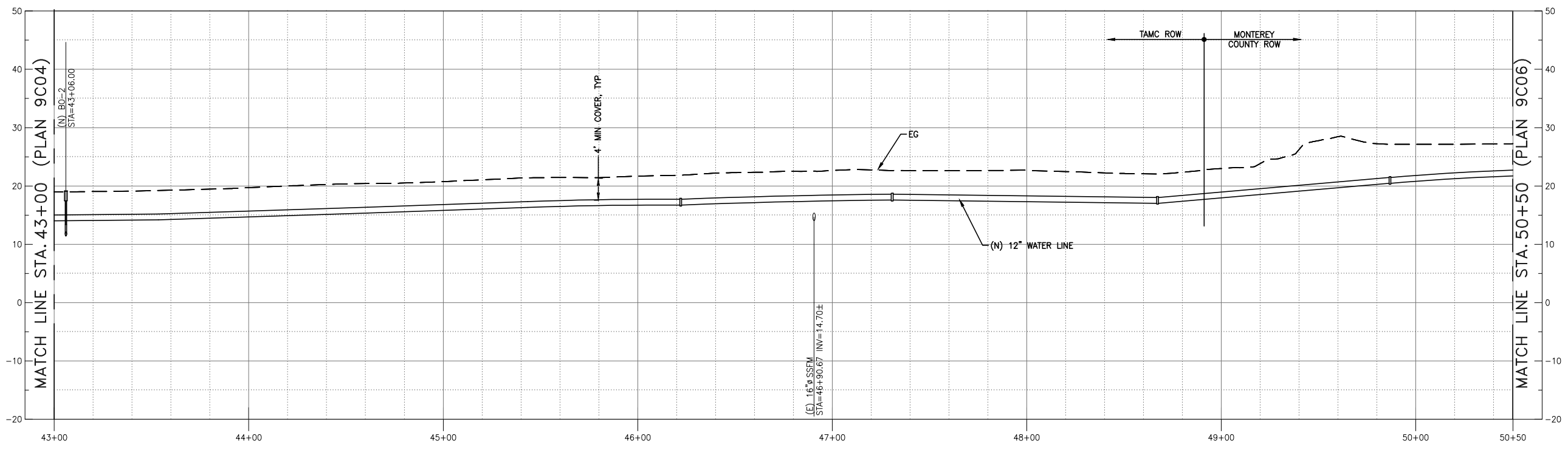


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 34+00 TO STA 43+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	 
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C04</b>

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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

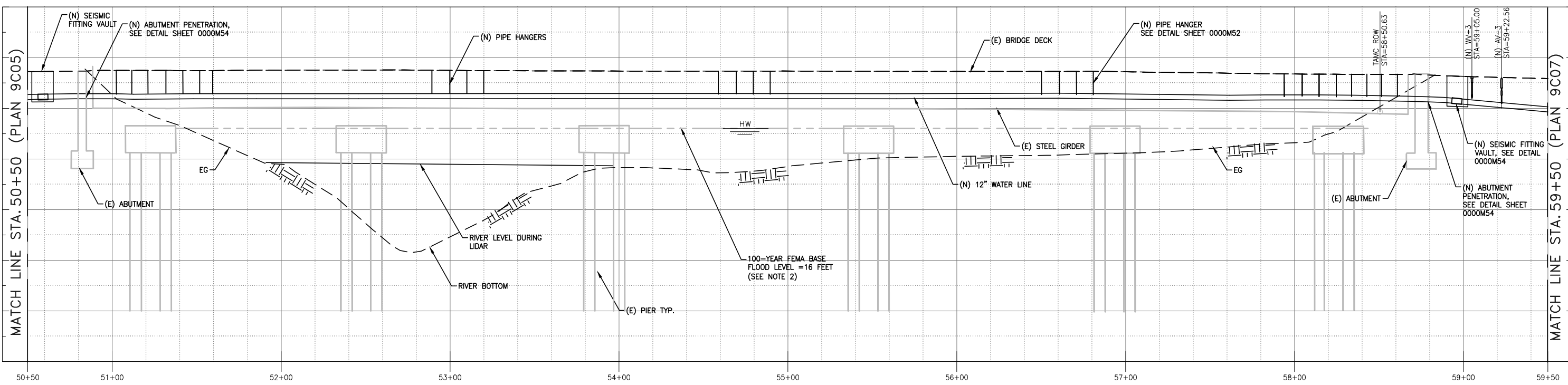
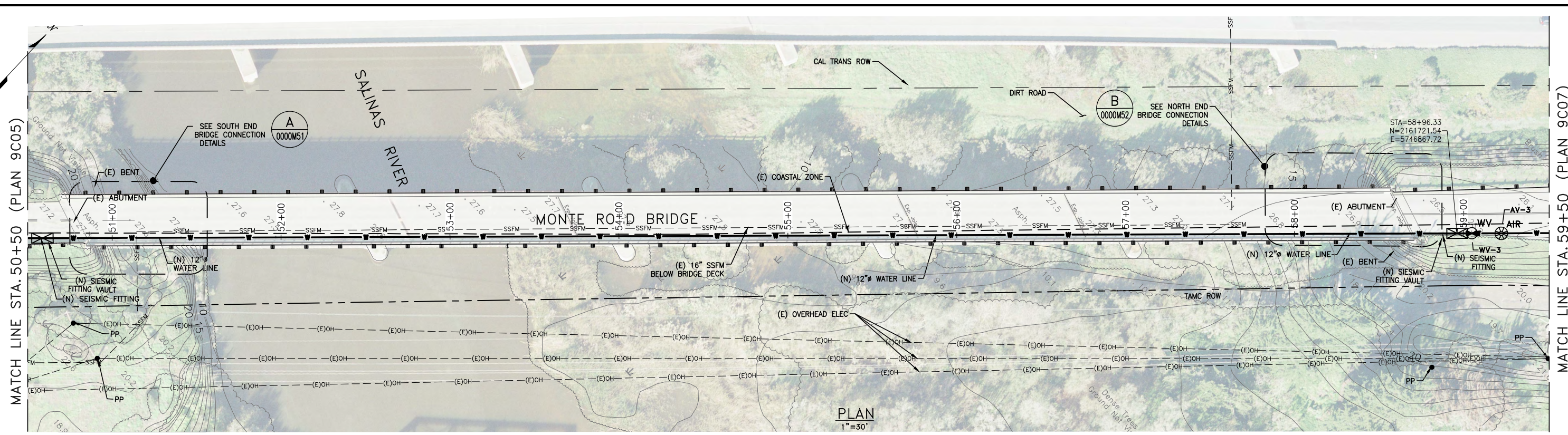
1. MAINTAIN 10-FT SEPARATION EDGE TO EDGE BETWEEN NEW WATER AND EXISTING SANITARY SEWER.
2. SEE DETAILS SHEET M51 AND M52 FOR HANGING NEW WATER PIPE UNDER MONTE RD BRIDGE OWNED BY MONTEREY COUNTY.
3. THE PROFILE SHOWN IS FOR WATERLINE ALONG ALT-1 ALIGNMENT. THE ALT-2 ALIGNMENT SHOWN ON THE PLANS IS FOR REFERENCE ONLY.

**CONFORMED**



REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 43+00 TO STA 50+50	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	 
		DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C05</b>

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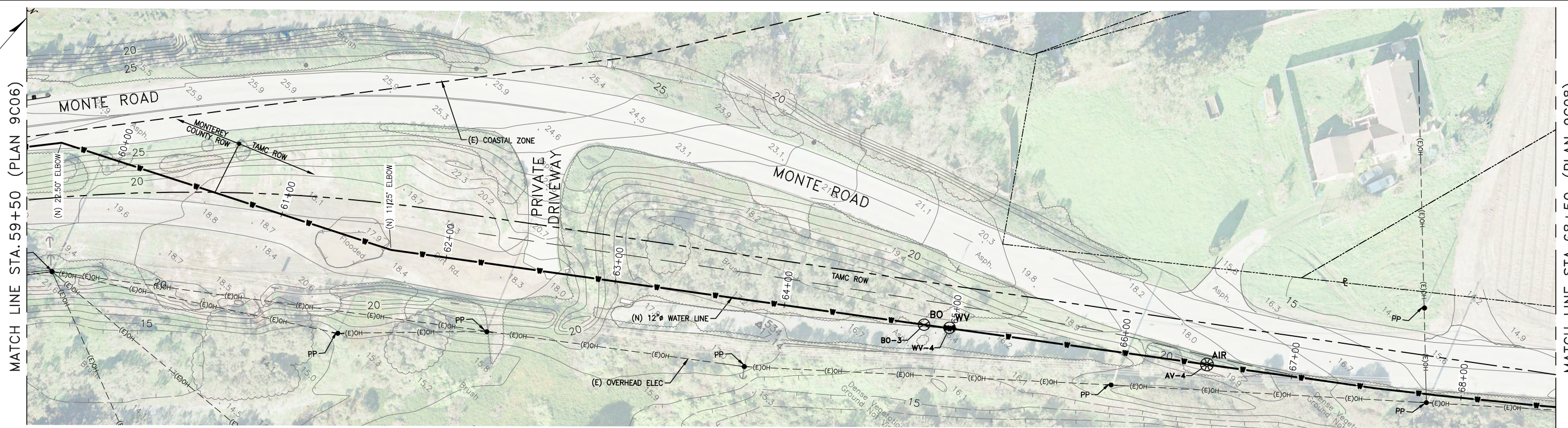
**CONFORMED**  
 HORIZ 1"=30', VERT 1"=10'  
 9/11/19

- NOTES:**
- HANG PIPELINE UNDER BRIDGE PER DETAIL DRAWINGS 0000M51-0000M54 AND SPECIFICATIONS.
  - CONTRACTOR IS PROHIBITED FROM ENTERING THE AREAS BELOW THE HIGH WATER LINE (16FT ELEV.) AND WEST OF THE BRIDGE (COASTAL ZONE AND CALTRANS). AS SHOWN ON DETAIL SHEET 0000M51.
  - INSTALL PIPE UNDER BRIDGE, IN BRIDGE APPROACH AND IN MONTEREY COUNTY ROW IN COMPLIANCE WITH ALL APPLICABLE PERMIT CONDITIONS.

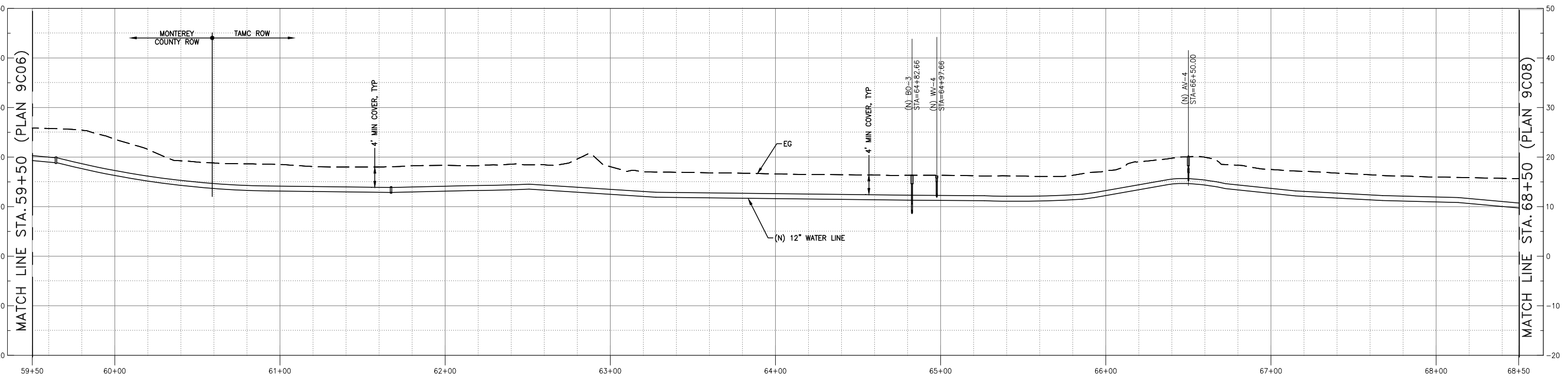


REVISIONS	TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 50+50 TO STA 59+50	
	CALIFORNIA AMERICAN WATER	
	AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	
	DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	
	DATE MARCH 2018 PROJECT 60489016	
	USE DIMENSIONS ONLY SCALE AS SHOWN	
	<b>USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES</b>	
	<b>9009C06</b>	

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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

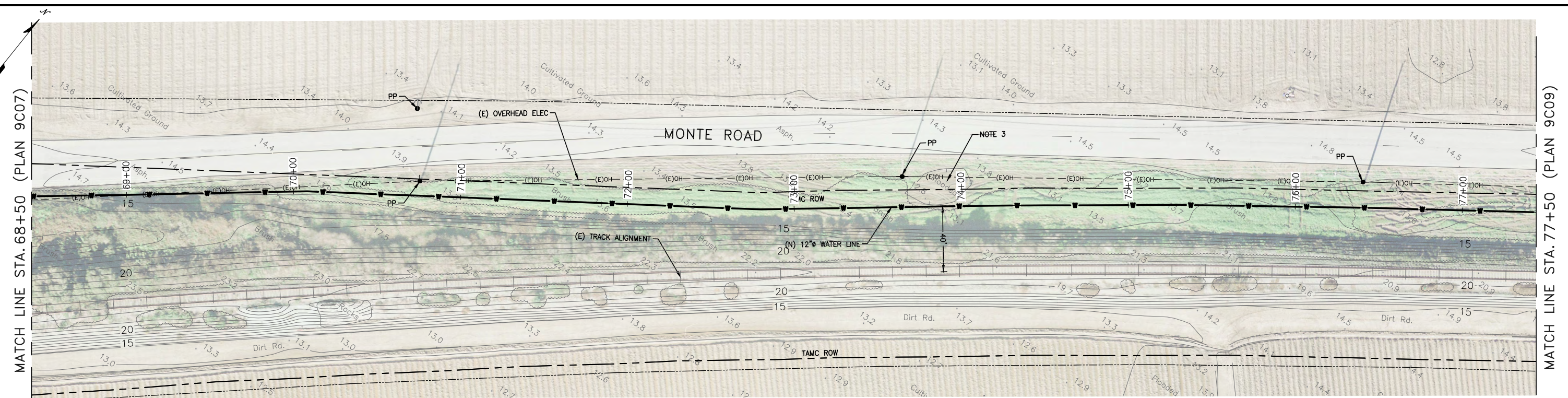
- NOTES:**
1. MAINTAIN ACCESS TO PRIVATE RESIDENTIAL DRIVEWAY AT ALL TIMES. COORDINATE ANY ACCESS RESTRICTIONS WITH MONTEREY COUNTY PUBLIC WORKS.

**CONFORMED**

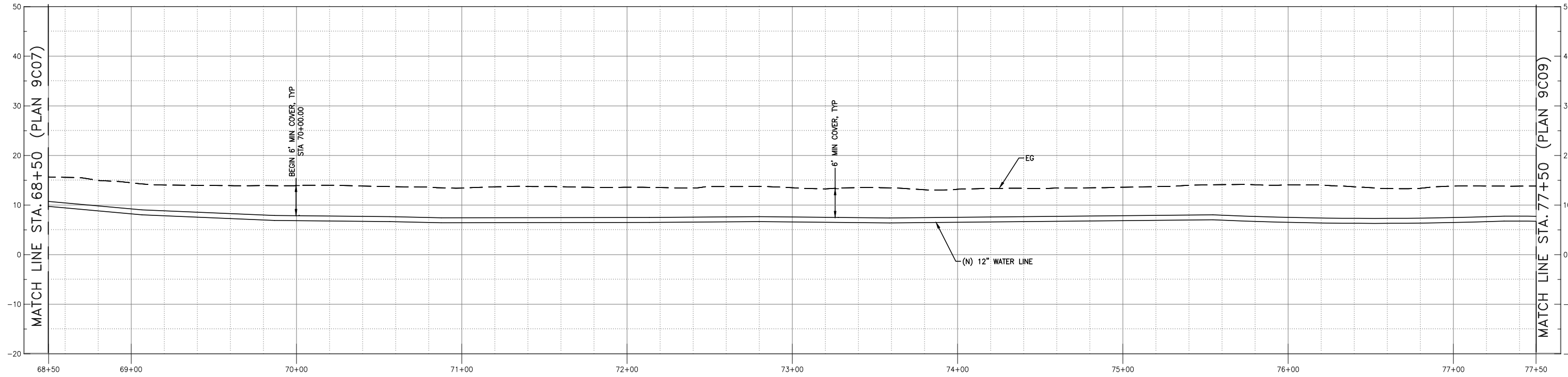


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 59+50 TO STA 68+50	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	<b>AECOM</b> CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C07</b>

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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

- NOTES:**
1. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
  2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
  3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.
  4. PROTECT POWER POLES. POWER POLE GUY WIRES MAY BE IN THE WAY OF CONSTRUCTION.

**CONFORMED**



REVISIONS	

**TRANSMISSION MAINS FOR MPWSP  
CIVIL  
CASTROVILLE PIPELINE  
PLAN AND PROFILE STA 68+50 TO STA 77+50**

CALIFORNIA  
AMERICAN WATER

AECOM  
 300 LAKESIDE, SUITE 400  
 OAKLAND, CALIFORNIA 94612

**AECOM**

CALIFORNIA  
**AMERICAN WATER**

DRAWN BY E. MEEKS  
 PROJECT ENGR J. HYMAN  
 APPROVED C. SMITH

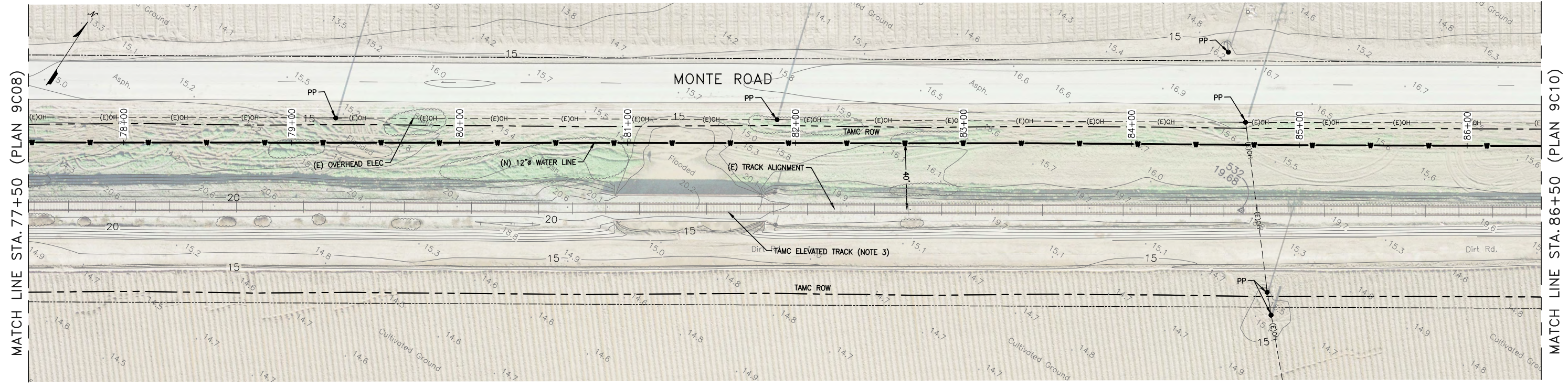
DATE MARCH 2018  
 PROJECT 60489016

USE DIMENSIONS ONLY  
 SCALE AS SHOWN

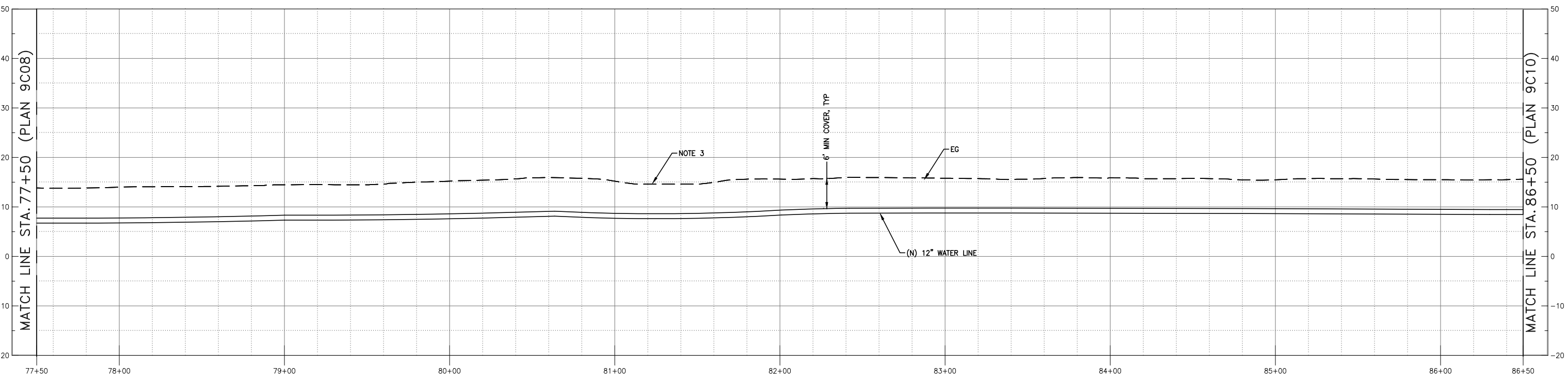
USE APPROVED DRAWINGS ONLY  
 FOR CONSTRUCTION PURPOSES

**9009C08**

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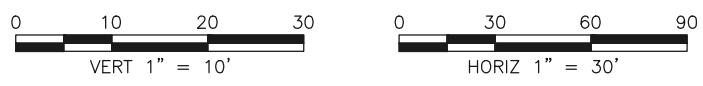
PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

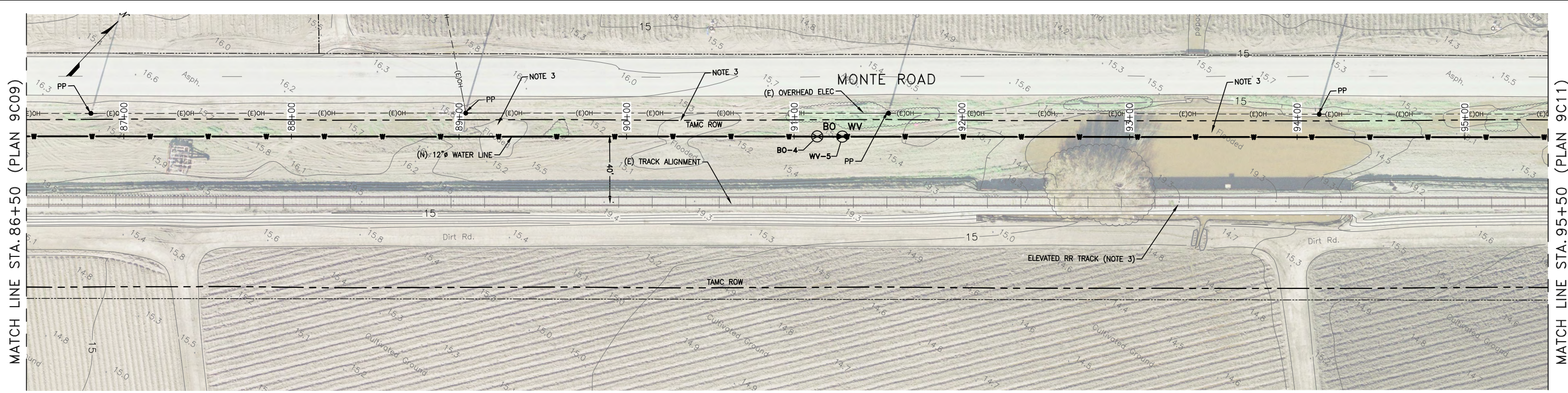
- NOTES:**
1. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
  2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
  3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.
  4. PROTECT POWER POLES. POWER POLE GUY WIRES MAY BE IN THE WAY OF CONSTRUCTION.

**CONFORMED**

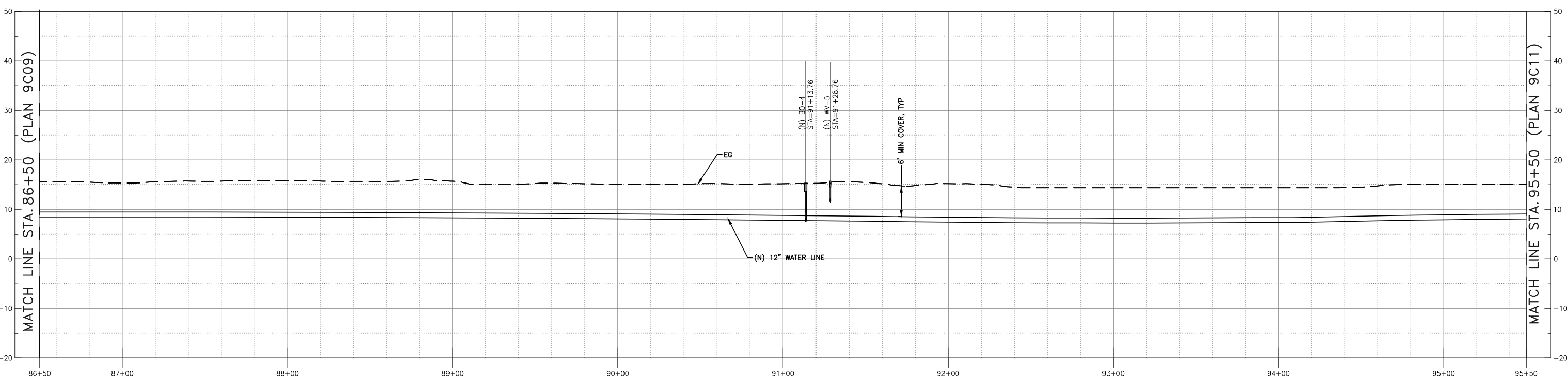


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 77+50 TO STA 86+50	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	<b>AECOM</b> CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C09</b>

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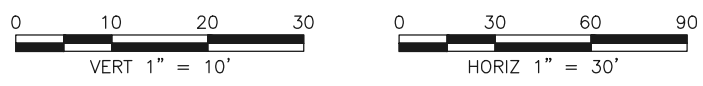
PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

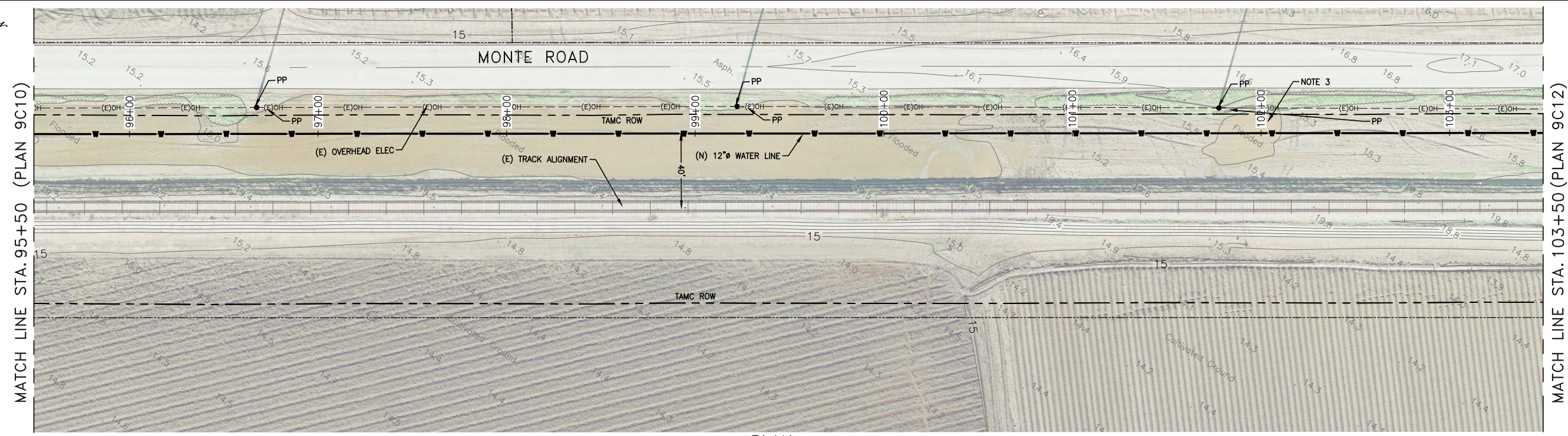
- NOTES:**
1. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
  2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
  3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.
  4. PROTECT POWER POLES. POWER POLE GUY WIRES MAY BE IN THE WAY OF CONSTRUCTION.

**CONFORMED**

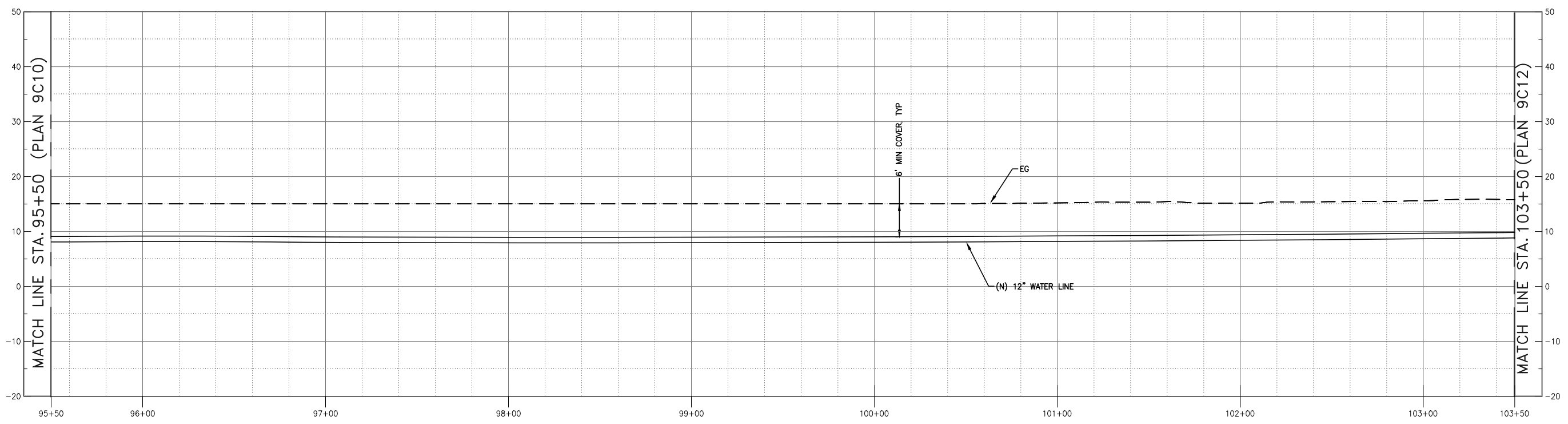


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 86+50 TO STA 95+50	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	<b>AECOM</b> CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C10</b>

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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

NOTES:

1. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.
4. PROTECT POWER POLES. POWER POLE GUY WIRES MAY BE IN THE WAY OF CONSTRUCTION.

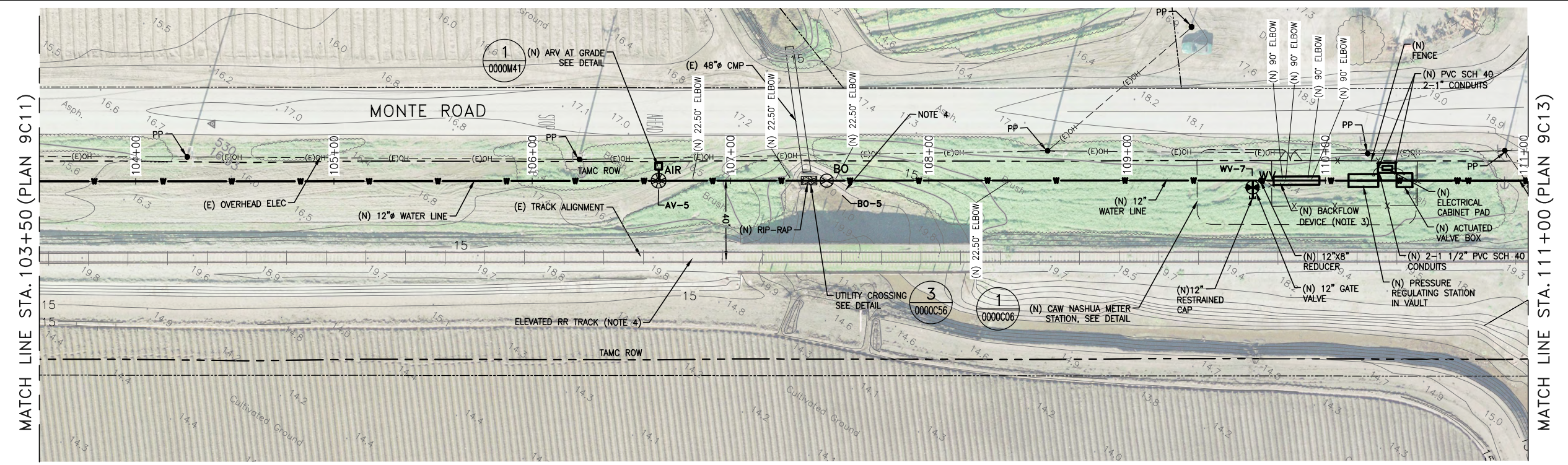
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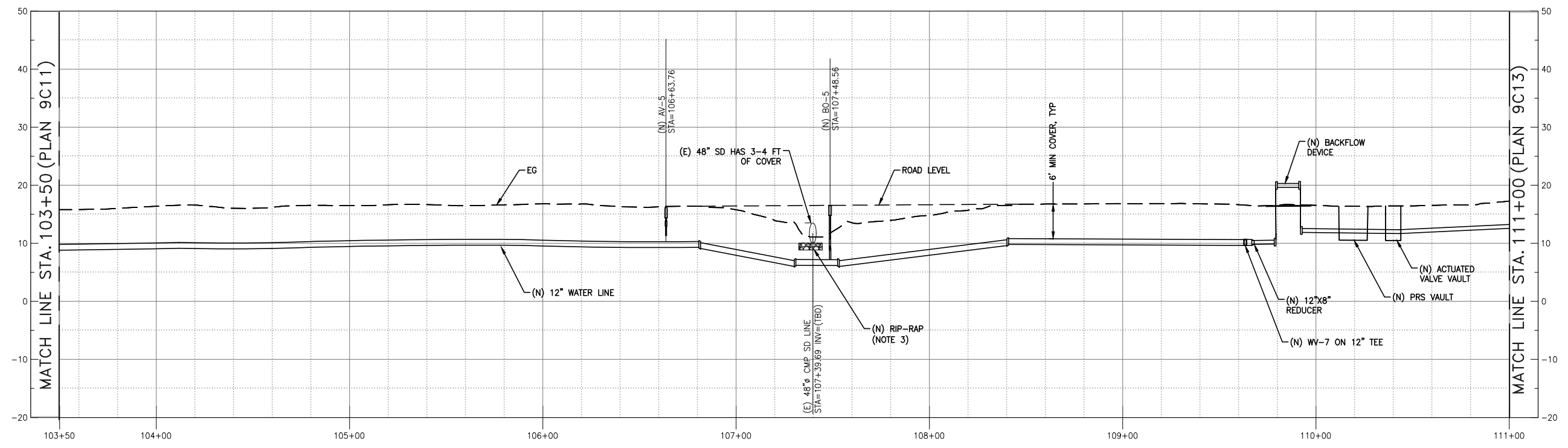
REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 95+50 TO STA 103+50	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	 
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	9009C11



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PLAN  
1"=30'

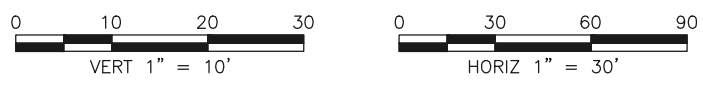


PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

- INSTALL NEW WATER IN SHOULDER OF MONTE RD. MINIMUM 5-FT FROM OVERHEAD ELECTRICAL POLES.
- THE PROFILE SHOWN IS FOR WATERLINE ALONG ALT-1 ALIGNMENT. THE ALT-2 ALIGNMENT SHOWN ON THE PLANS IS FOR REFERENCE ONLY.
- INSTALL WATER LINE UNDER THE DITCH IN FRONT OF THE CULVERT. INSTALL 4'X6'X2' OF 6" RIP-RAP OVER PIPE IN FRONT OF CULVERT TO PREVENT EROSION OF PIPE COVER.
- AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.

- THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
- THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
- PROTECT POWER POLES. POWER POLE GUY WIRES MAY BE IN THE WAY OF CONSTRUCTION.

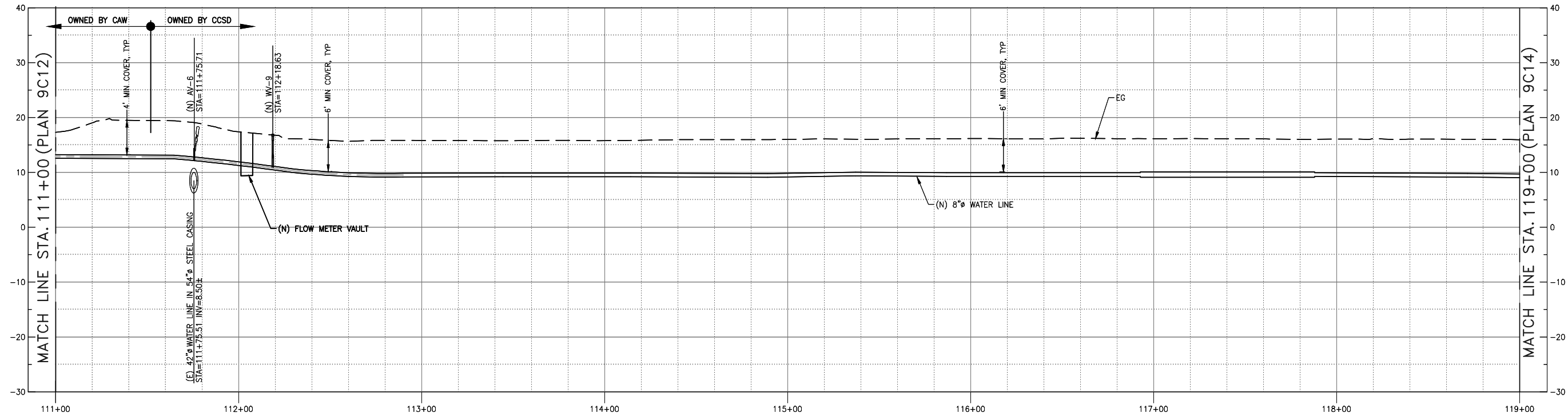
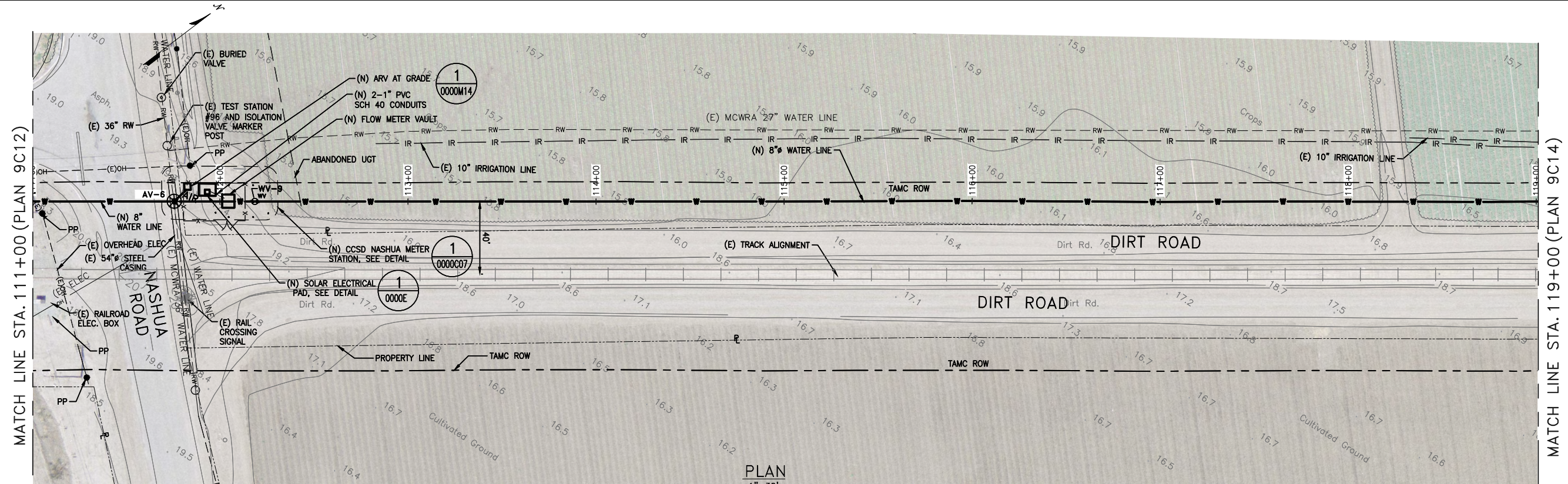


**CONFORMED**



REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 113+50 TO STA 111+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	 
		DRAWN BY E. MEEKES PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C12</b>

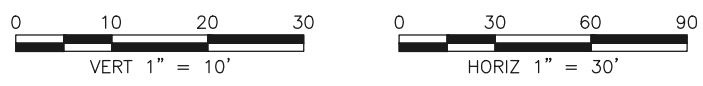
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- NOTES:**
- SEE DETAIL DRAWING FOR CCSD NASHUA METER STATION ON SHEET 0000C07.
  - INSTALL WATER VALVES MINIMUM 5 PIPE DIAMETERS AWAY FROM FLOW METER AND IN ACCORDANCE WITH FLOW METER MANUFACTURER RECOMMENDATIONS.
  - THE DIRT ROADS IN THE TAMC ROW NORTH OF NASHUA ROAD ARE USED FOR FARMING ACCESS. MAINTAIN FARMING ACCESS AT ALL TIMES.
  - DURING WET TIMES OF THESE DIRT ROADS ARE VERY MUDDY AND OCCASIONALLY SATURATED. AVOID WORK DURING THESE TIMES. RESTORE THESE ROADS TO ORIGINAL CONDITION. THESE ARE NOT SHOWN ON THE DRAWINGS.
  - POWER POLES ALONG PIPELINE ALIGNMENT MAY HAVE GUY WIRES NEAR OR IN THE PIPELINE ALIGNMENT. CONTRACTOR TO PROTECT ALL UTILITY EQUIPMENT INCLUDING POWER POLES AND GUY WIRES.

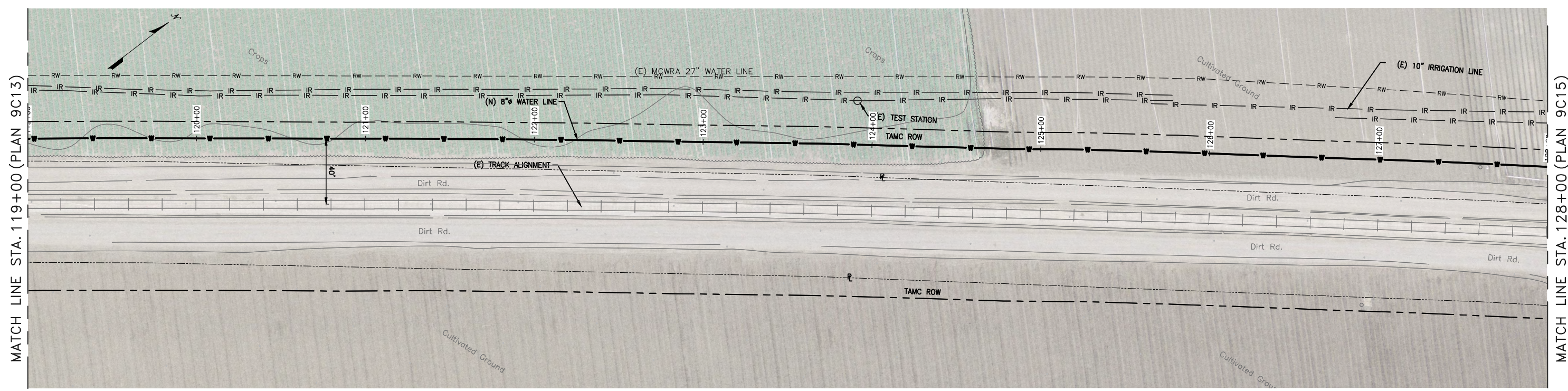
6. CONTRACTOR TO PROTECT OR REMOVE AND REPLACE POWER POLE GUY WIRES, AS NECESSARY.

**CONFORMED**

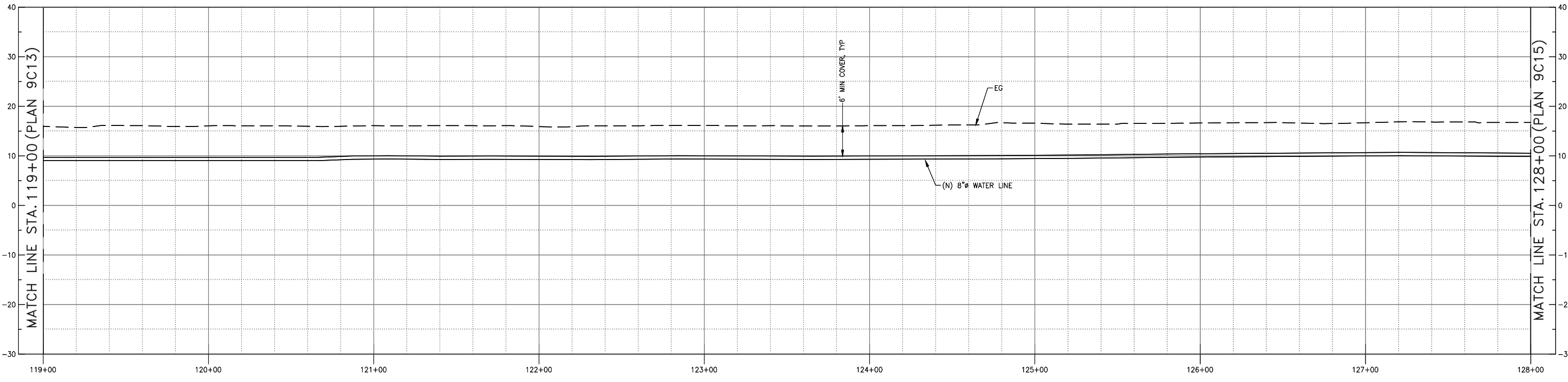


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 110+00 TO STA 119+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	<b>AECOM</b> CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C13</b>

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PLAN  
1"=30'

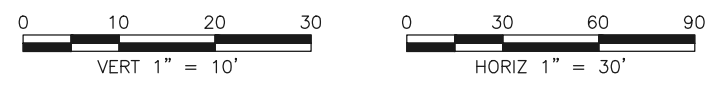


PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

1. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.

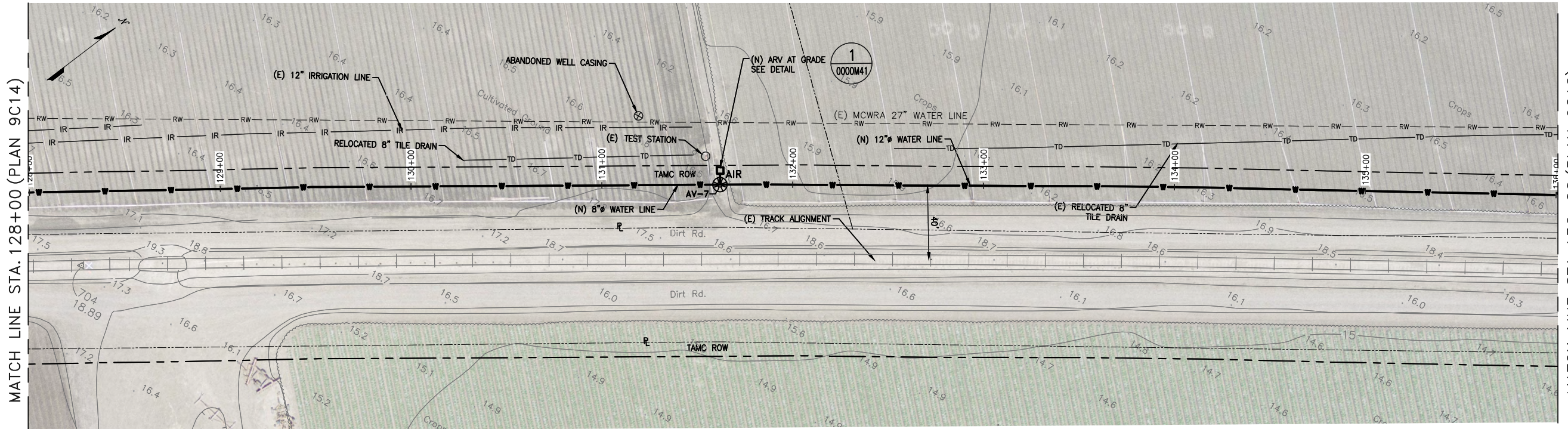
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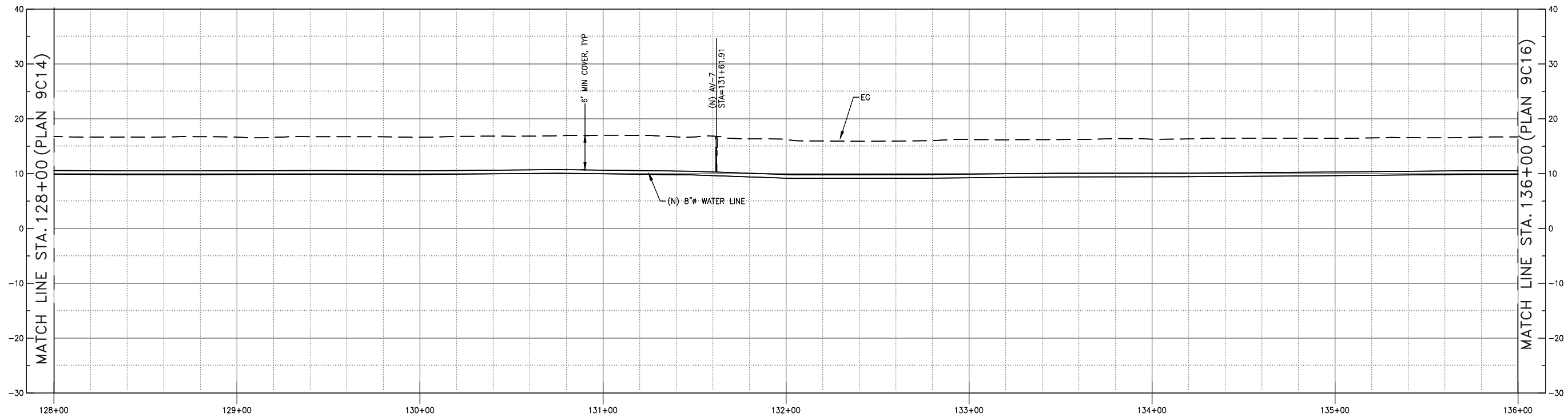
9/11/19

REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 119+00 TO STA 128+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	 
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C14</b>

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PLAN  
1"=30'

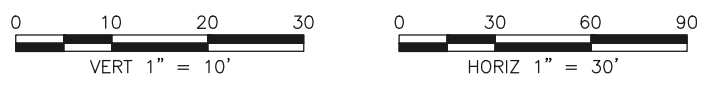


PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

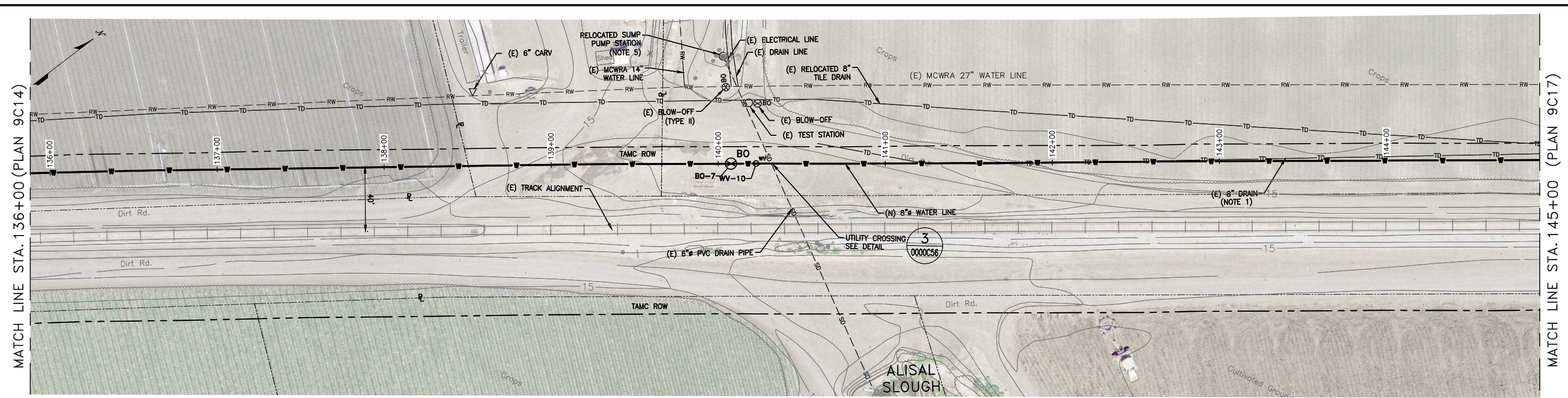
1. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.

**CONFORMED**

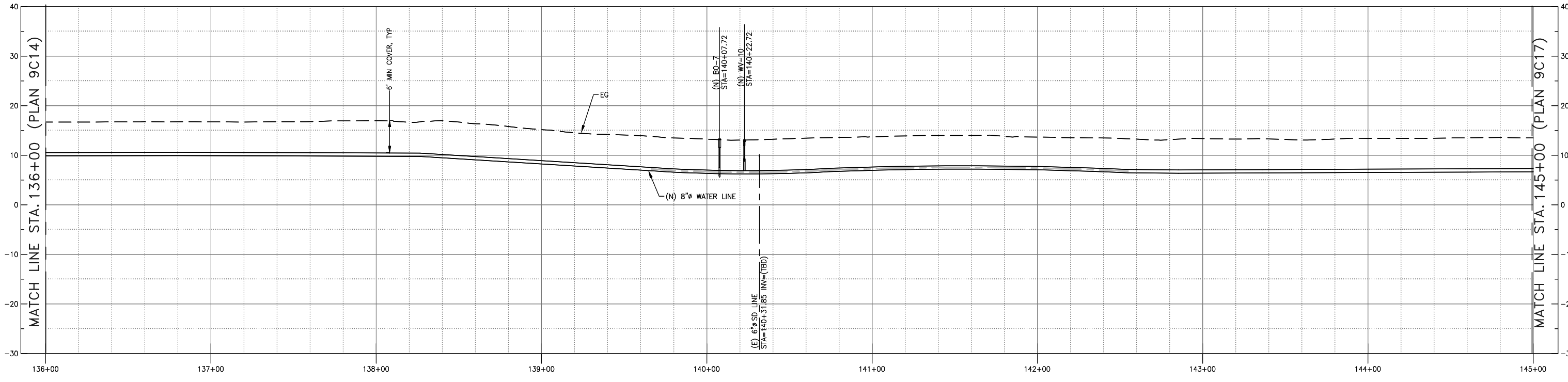


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 128+00 TO STA 136+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	<b>AECOM</b> CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C15</b>

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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

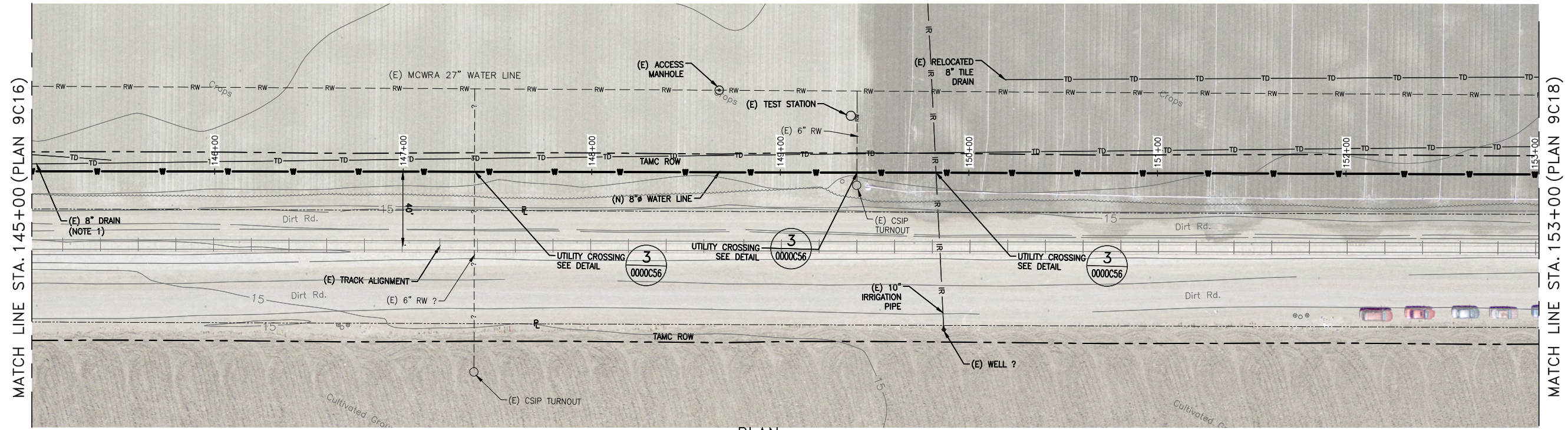
- NOTES:**
1. PROTECT THE DRAIN (TD) IN PLACE.
  2. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
  3. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
  4. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.
  5. THE PRIVATE SUMP/PUMP STATION PUMPS WATER TO ALISAL SLOUGH.

**CONFORMED**

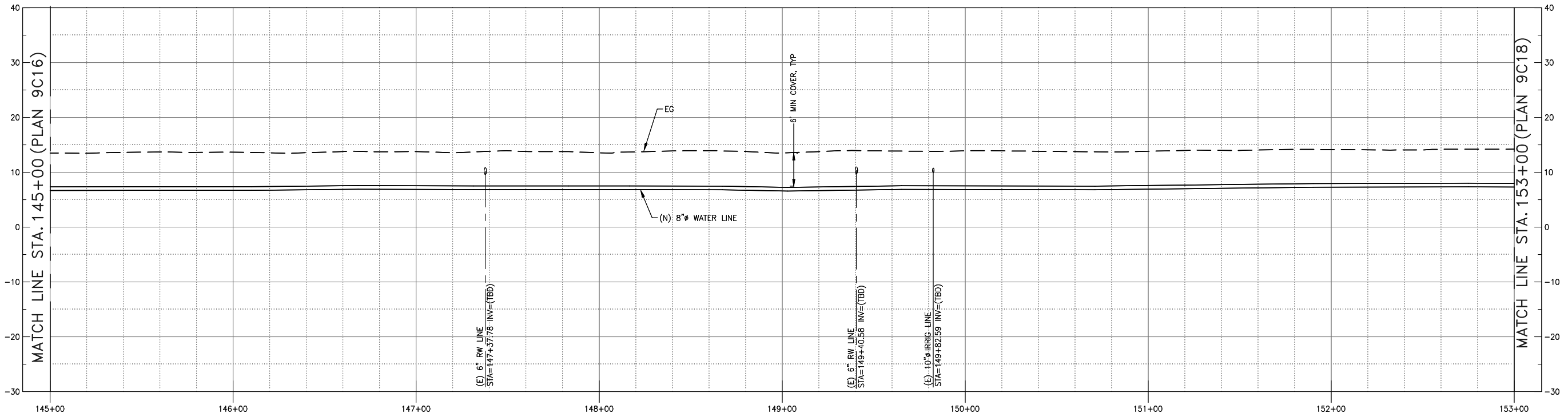


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 136+00 TO STA 145+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	<b>AECOM</b> CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKES PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C16</b>

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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

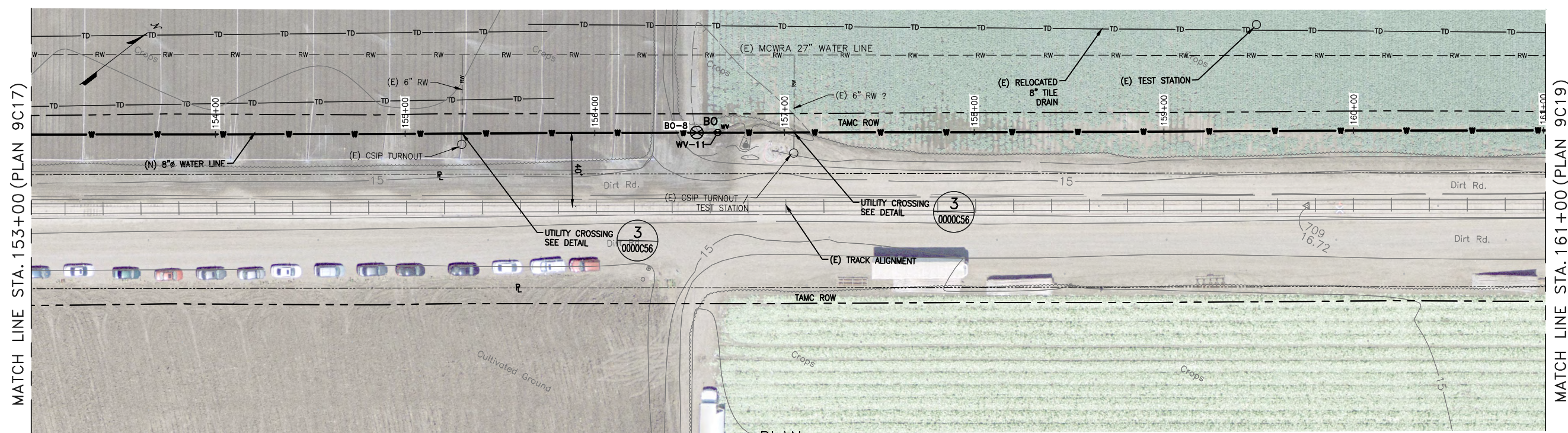
1. PROTECT THE DRAIN (TD) IN PLACE.
2. THE AREA IN THE TMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TMC REPRESENTATIVE.
3. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
4. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.

**CONFORMED**

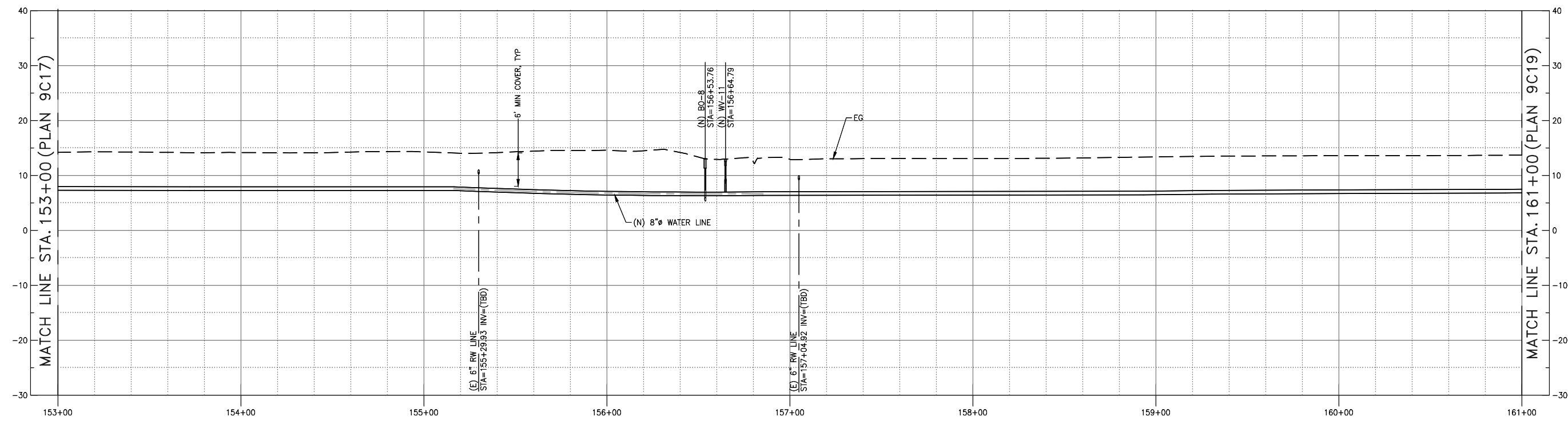


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 145+00 TO STA 153+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	 
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C17</b>

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PLAN  
1"=30'

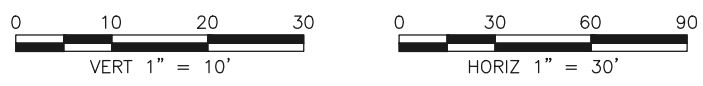


PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

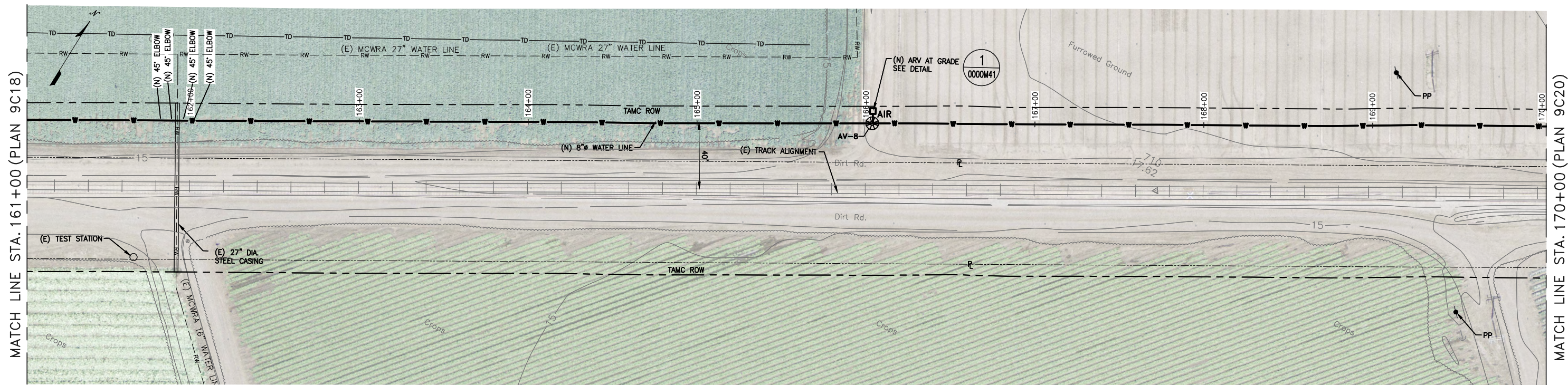
1. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.

**CONFORMED**

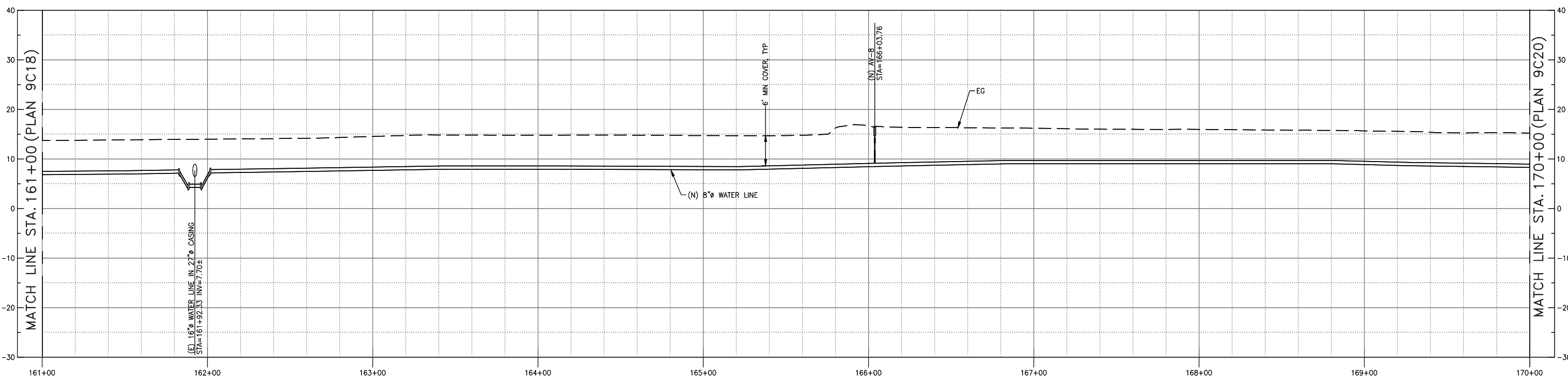


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 153+00 TO STA 161+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	AECOM CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	9009C18

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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

1. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.

**CONFORMED**



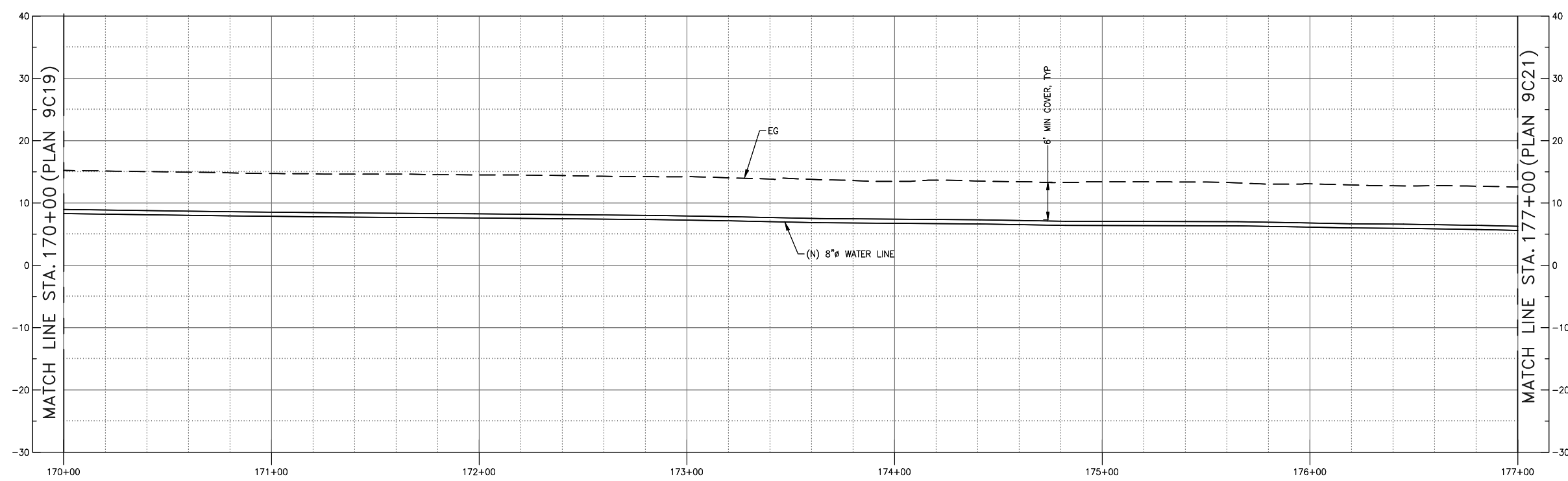
REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 161+00 TO STA 170+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	<b>AECOM</b> CALIFORNIA AMERICAN WATER
		DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES		9009C19	



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PLAN  
1"=30'

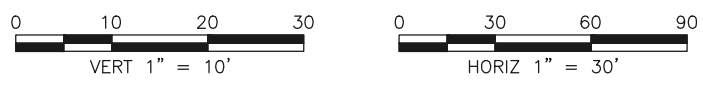


PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

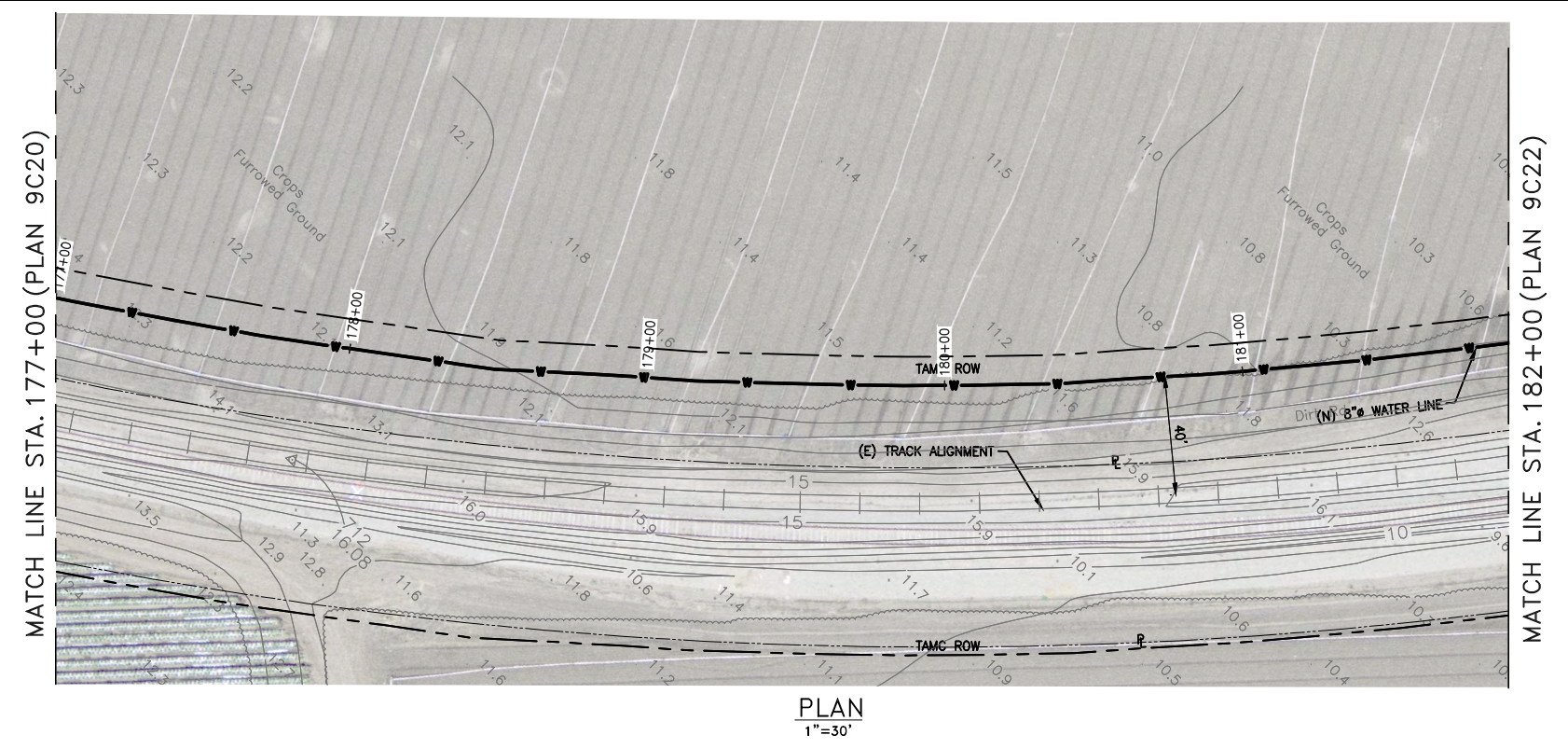
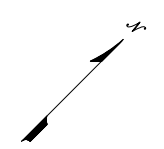
1. THE AREA IN THE TANC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TANC REPRESENTATIVE.
2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TANC ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.

**CONFORMED**

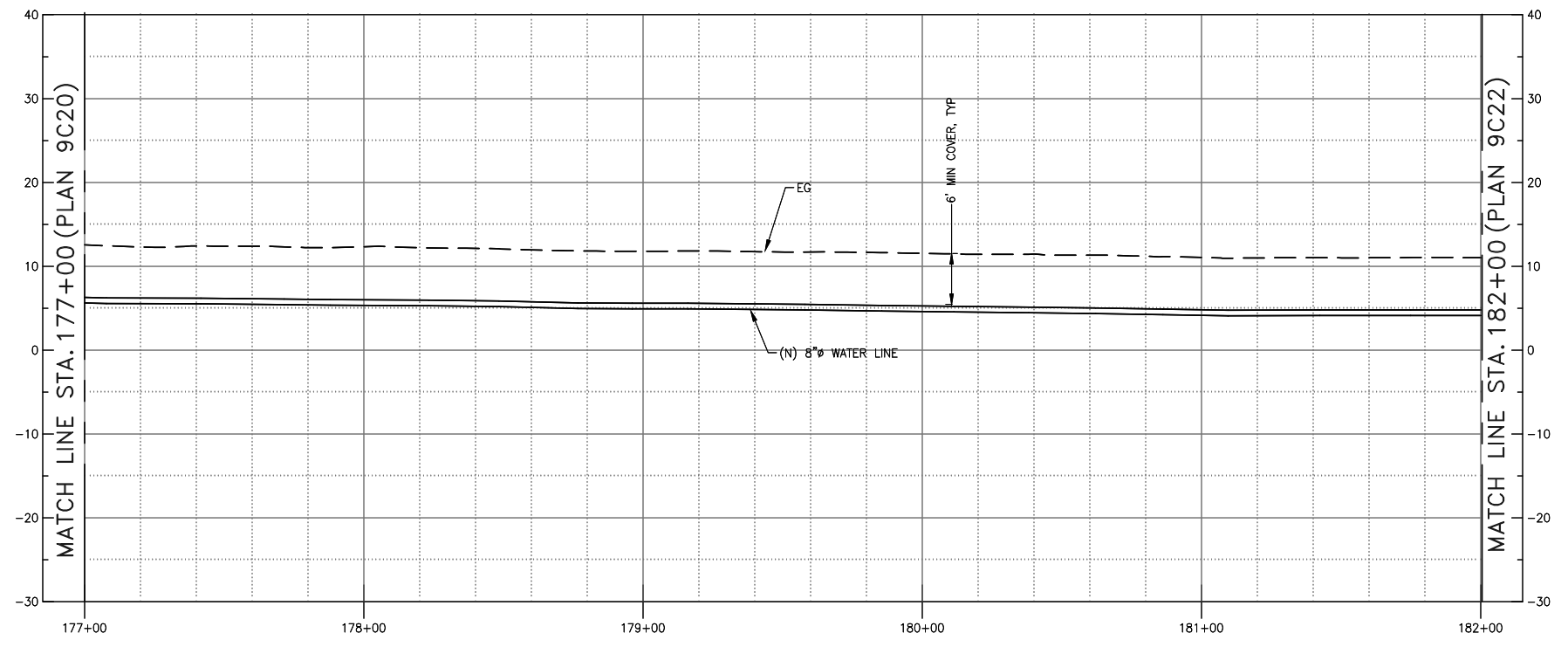


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 170+00 TO STA 177+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C20</b>

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PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

**NOTES:**

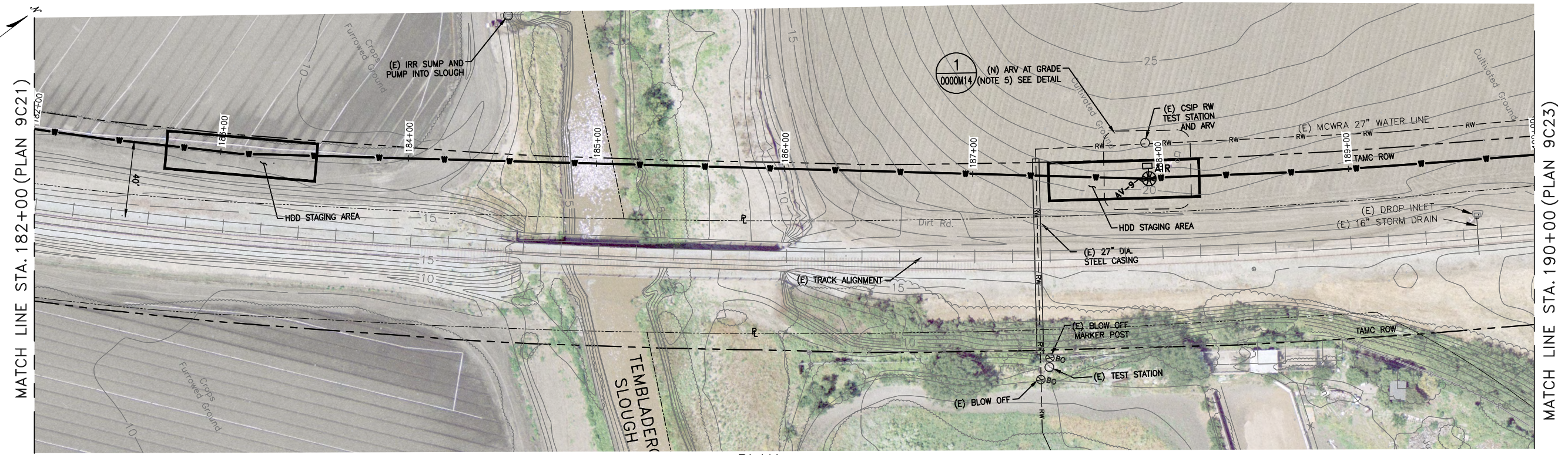
1. THE AREA IN THE TAMP ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMP REPRESENTATIVE.
2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
3. AT SOME TIMES OF THE YEAR, LOW LYING AREAS IN THE TAMP ALIGNMENT HAVE STANDING WATER. AVOID WORK DURING THESE TIMES.

**CONFORMED**

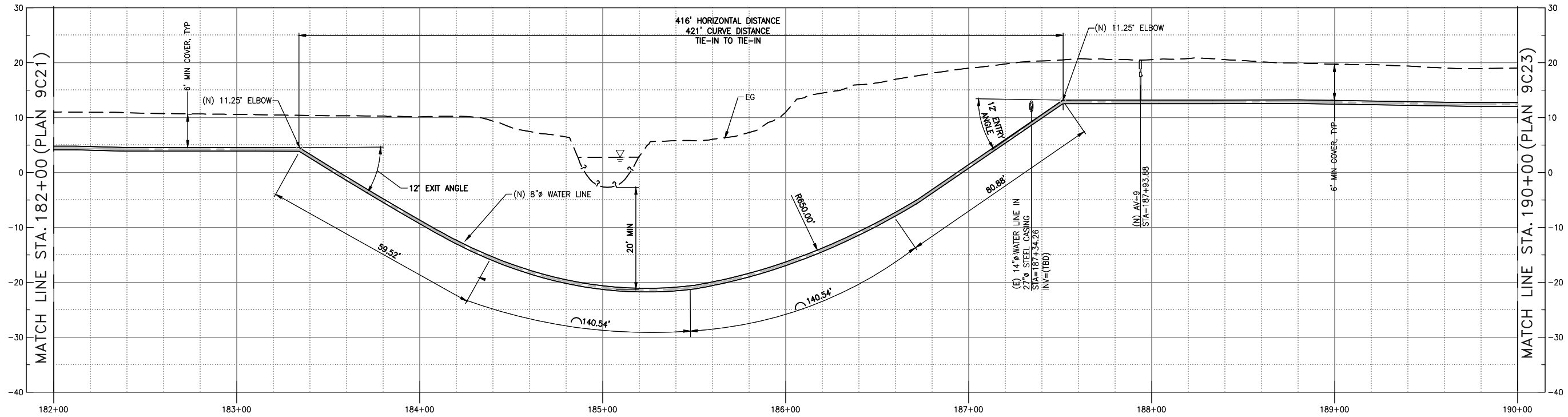


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 177+00 TO STA 182+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	
		DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	9009C21

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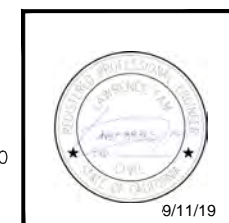
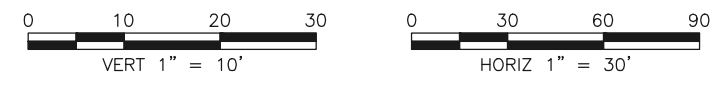
PLAN  
1"=30'



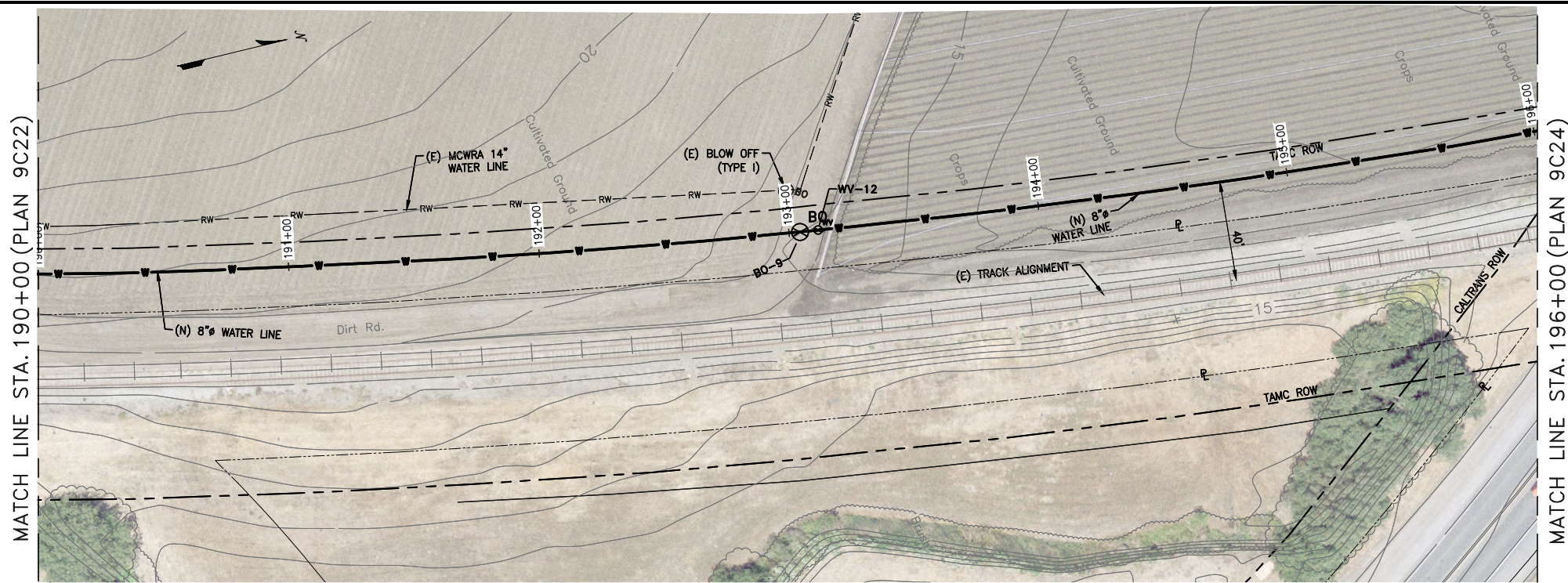
PROFILE  
HORIZ 1"=30', VERT 1"=10'

- NOTE:**
1. INSTALL PIPE UNDER TEMBLADERO SLOUGH BY HDD. SEE RELEVANT HDD SPECIFICATIONS.
  2. STAGING AREAS MAY BE ADJUSTED AS NECESSARY TO FACILITATE HDD INSTALLATION. THE ENTIRE TAMC RAILROAD ROW IS AVAILABLE FOR STAGING, PIPE LAYOUT AND FUSING. CONTRACTOR SHALL NOT ENTER VEGETATED AREAS ADJACENT TO SLOUGH OR AREAS OUTSIDE TAMC RIGHT-OF-WAY. TO THE EXTENT POSSIBLE, CONTRACTOR SHALL MINIMIZE IMPACTS TO FARMED FIELDS.
  3. CONTRACTOR MAY REVERSE HDD ENTRY AND EXIT.
  4. CONTRACTOR TO CONFIRM DEPTH OF SLOUGH PRIOR TO CONFIRMING HDD DESIGN.
  5. ARV IS LOCATED HERE TO BE OUT OF THE WAY OF THE FARMING ACTIVITIES AND CO-LOCATE WITH (E) CSIP EQUIPMENT. EXACT LOCATION TO BE DETERMINED BY OWNER AFTER CONSULTING WITH PROPERTY OWNER AND LESEE.

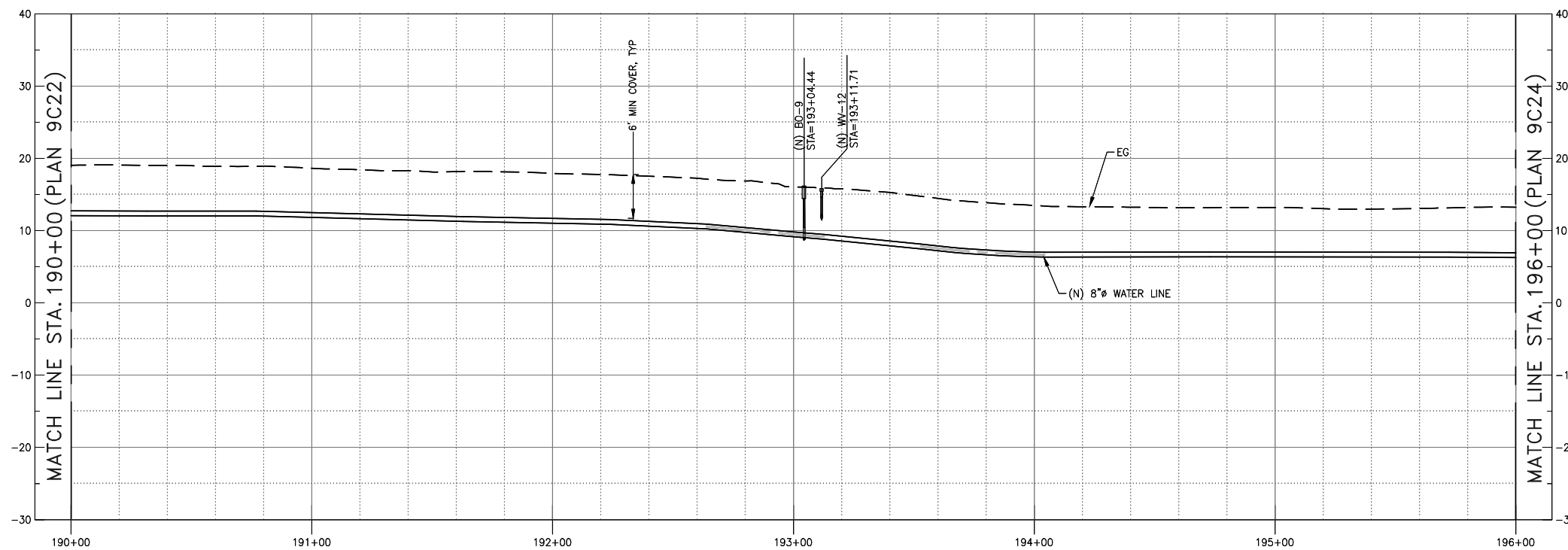
**CONFORMED**



REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 182+00 TO STA 190+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612	 
		DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	9009C22



PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

NOTES:

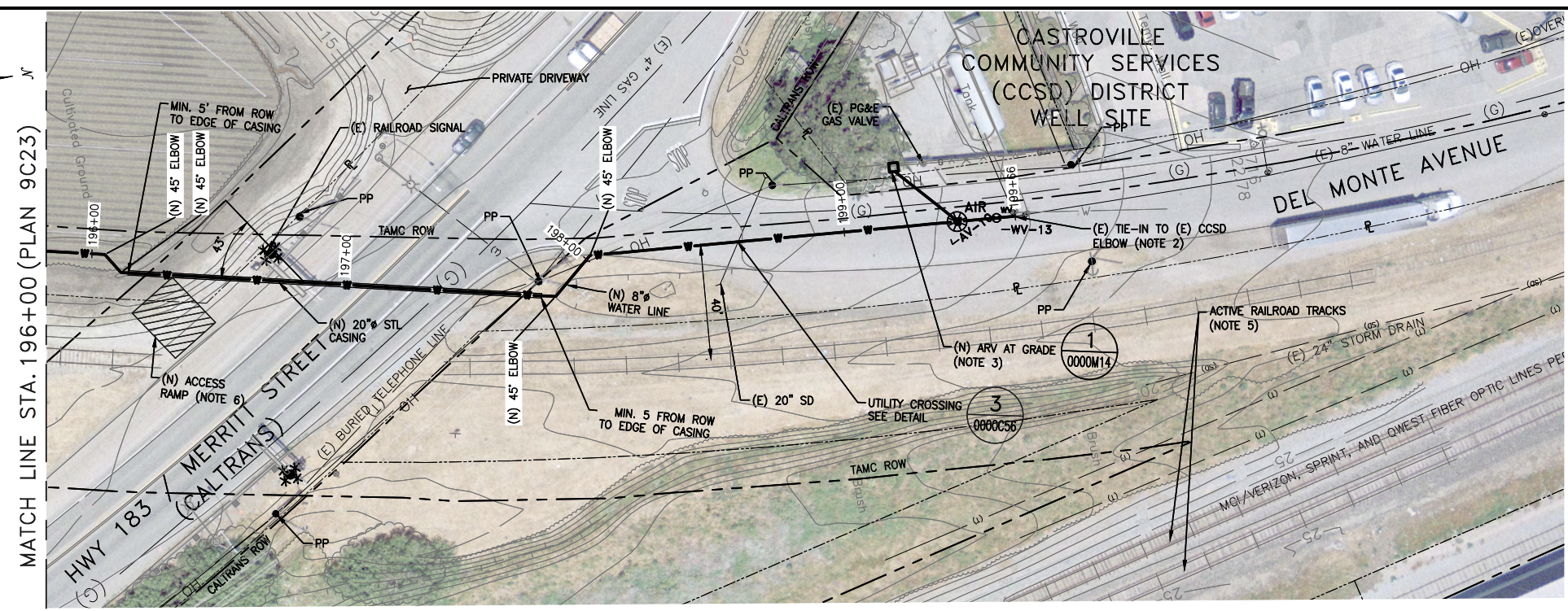
1. THE AREA IN THE TAMC ROW FROM STA 70+00 TO STA 196+50 IS LEASED TO ADJACENT FARMS FOR AGRICULTURAL PURPOSES. COORDINATE CONSTRUCTION ACTIVITIES WITH TAMC REPRESENTATIVE.
2. THE AREA FROM STA 70+00 TO 196+50 IS KNOWN TO HAVE IRRIGATION LINES AND FIELD DRAINS. NO RECORDS EXIST. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND.
3. PLACE TALL BOLLARDS AROUND ARV'S.

**CONFORMED**

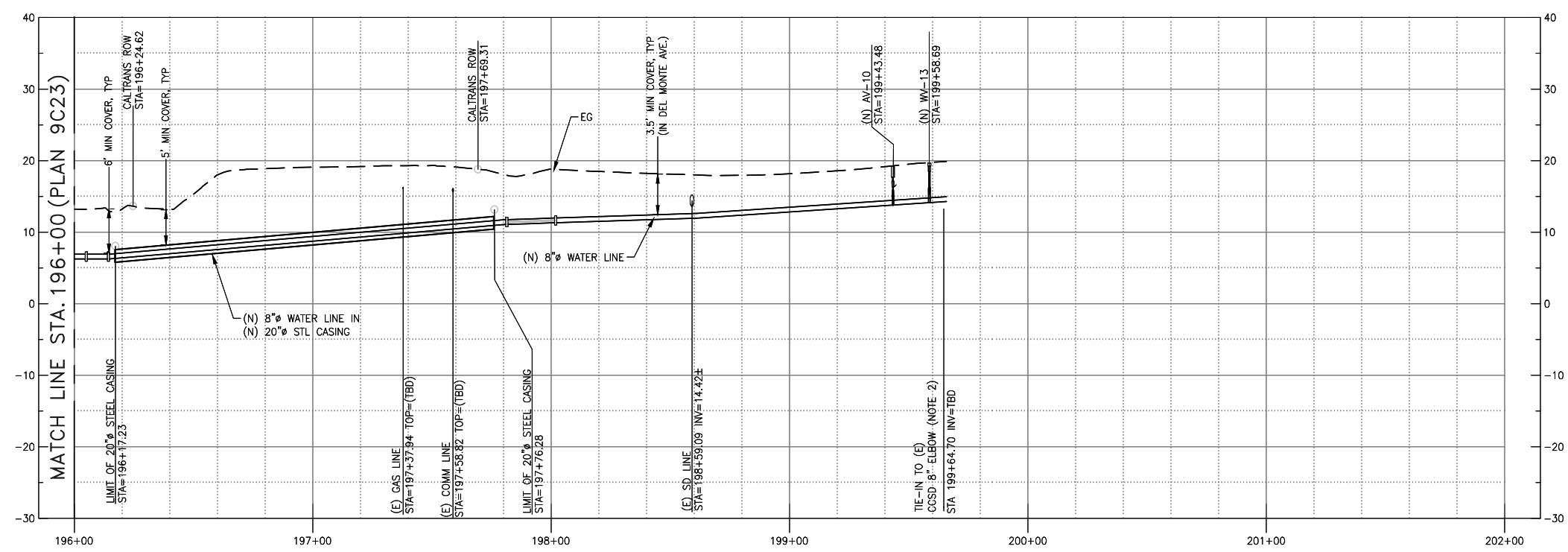


REVISIONS		TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 190+00 TO STA 196+00	
		CALIFORNIA AMERICAN WATER	
		AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612 CALIFORNIA AMERICAN WATER	
		DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED	DATE MARCH 2018 PROJECT 60489016 USE DIMENSIONS ONLY SCALE AS SHOWN
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	<b>9009C23</b>

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 Aug 16, 2018 - 8:07am



PLAN  
1"=30'



PROFILE  
HORIZ 1"=30', VERT 1"=10'

NOTES:

- INSTALL 8" PIPE IN 20" CASING TO 2 FEET BEYOND CALTRANS RIGHT-OF-WAY. MAINTAIN 5 FEET CLEAR BETWEEN EDGE OF CASING PIPE AND RAILROAD SIGNAL AND POWER POLE. COMPLY WITH CALTRANS PERMIT CONDITIONS FOR INSTALLATION. ASSUME INSTALLATION BY TRENCHING AT NIGHT.
- TIE-IN AT (E)CCSD 90 DEGREE ELBOW TO BE POTHOLED AND PROPOSED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- INSTALL ARV ABOVE GRADE AT SURFACE PER DETAIL 0000M14. OBTAIN CCSD APPROVAL OF ARV LOCATION PRIOR TO INSTALLATION.
- THE EAST SIDE OF DEL MONTE AVENUE IS AN ACTIVE TRUCK PARKING AREA. COORDINATE ANY WORK IN OR STAGING THIS AREA WITH THE CITY, LOCAL BUSINESS OWNERS, AND CCSD.
- STAY OFF ROW FOR ACTIVE RAILROAD TRACKS.
- CONTRACTOR TO RE-GRADE (N) RAMP TO ACCESS TAMC ROW FROM MERRITT STREET/HWY 183.

**CONFORMED**



REVISIONS	

<b>TRANSMISSION MAINS FOR MPWSP CIVIL CASTROVILLE PIPELINE PLAN AND PROFILE STA 196+00 TO STA 202+00</b>		
CALIFORNIA AMERICAN WATER		
AECOM 300 LAKESIDE, SUITE 400 OAKLAND, CALIFORNIA 94612		
DRAWN BY E. MEEKS PROJECT ENGR J. HYMAN APPROVED C. SMITH	DATE MARCH 2018 PROJECT 60489016	USE DIMENSIONS ONLY SCALE AS SHOWN
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES		<b>9009C24</b>

CASTROVILLE VALVE TABLES

WATER VALVE		
ID NO.	STA NO.	DIAMETER
WV-1	10+80	12"
WV-2	38+77	12"
WV-3	59+05	12"
WV-4	64+98	12"
WV-5	91+28	12"
WV-7	ON TEE AT 110+10	12"
WV-9	112+27	8"
WV-10	140+22	8"
WV-11	156+64	8"
WV-12	193+11	8"
WV-13	199+56	8"

BLOW-OFF VALVES	
ID NO.	STA NO.
BO-1	29+05
BO-2	43+06
BO-3	64+83
BO-4	91+13
BO-5	107+48
BO-7	140+07
BO-8	156+53
BO-9	193+03

COMBINATION AIR RELEASE VALVES		
ID NO.	STA NO.	ARV TYPE
AV-1	10+12	AG (BY OTHERS)
AV-2	39+00	AG
AV-3	59+23	AG
AV-4	66+50	AG
AV-5	106+64	AG
AV-6	111+76	AG
AV-7	131+62	AG
AV-8	166+04	AG
AV-9	187+94	AG
AV-10	199+43	AG

AG = ABOVE GRADE  
BG = BELOW GRADE

NOTE:

1. THIS LIST OF VALVES EXCLUDES VALVES IN OR ASSOCIATED WITH PRESSURE REGULATING STATION AND BACKFLOW PROTECTION DEVICE.
2. THERE IS NO WV-8 OR BO-6

**CONFORMED**



REVISIONS	<b>TRANSMISSION MAINS FOR MPWSP MECHANICAL CASTROVILLE PIPELINE VALVE TABLE</b>	
	CALIFORNIA AMERICAN WATER	
	AECOM 300 LAKESIDE DR. SUITE 400 OAKLAND, CALIFORNIA 94612	
	DRAWN BY E. MEEKS PROJECT ENG'R J. HYMAN APPROVED C. SMITH	
	DATE JANUARY 2016 PROJECT 60489016	USE DIMENSIONS ONLY SCALE AS SHOWN
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES		<b>9009M01</b>

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