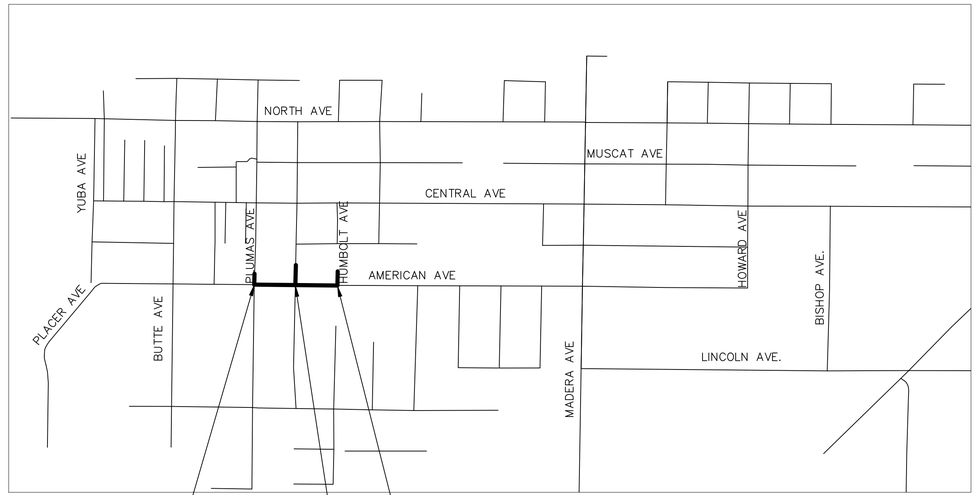
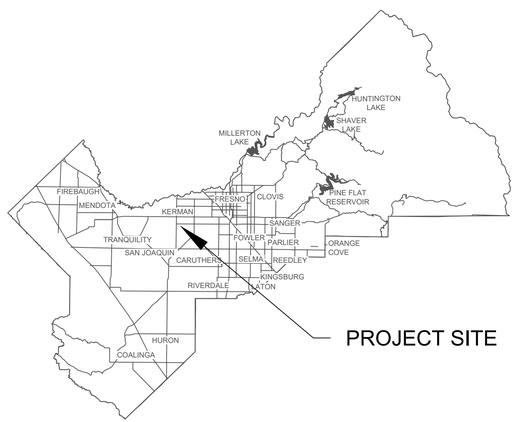
PLANS FOR CONSTRUCTION

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS





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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
11301	S0500	N/A	20/21	1	38
CONTRACT NO. 20-17-C					

RECORD DRAWING		
DATE ADOPTED		
CONTRACTOR		
NAME		
ADDRESS		
CITY	STATE	ZIP
PHONE		
DATE AWARDED		
DATE STARTED		
DATE COMPLETED		
RESIDENT ENGINEER		
NAME	SIGNATURE	
NAME	SIGNATURE	

DEPARTMENT OF PUBLIC WORKS AND PLANNING

2015 CALTRANS STANDARD PLANS LIST

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GENERAL NOTES

1. THE DIMENSIONS SHOWN ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE CALTRANS STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS THERETO.
2. PROJECT WILL BE CONSTRUCTED IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS - 2015 EDITION
3. SAW-CUT AND DEMOLITION AREAS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO DEMOLITION. ANY ADDITIONAL DEMOLITION SHALL BE APPROVED BY THE ENGINEER.
4. THE CONTRACTOR SHALL COORDINATE WITH ANY UTILITY COMPANIES THAT REQUIRE THEIR FACILITIES TO BE ADJUSTED TO GRADE. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING THE SITE AND IDENTIFYING ANY UTILITIES THAT MAY REQUIRE ADJUSTMENT. ANY UNFORESEEN DELAY SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY IN WRITING.
5. APPLY TACK COAT TO EXISTING AC PRIOR TO PAVING, INCLUDING VERTICAL JOINTS.
6. THE TERM "LANDFILL" & "AMERICAN AVE DISPOSAL SITE (AADS)" ARE USED INTERCHANGEABLY IN THIS SET OF PLANS
7. BASIS OF BEARINGS: THE NORTH LINE OF OF THE NORTHWEST QUARTER OF SECTION 6, TOWNSHIP 15 SOUTH, RANGE 17 EAST, M.D.B&M, HAS A WGS84 BEARING OF N89°56'31"E PER GPS OBSERVATIONS.
8. COORDINATE SYSTEM: COORDINATE SYSTEM IS LOCAL, NO PROJECTION, NO DATUM.
9. BASIS OF VERTICAL CONTROL: FRESNO COUNTY BENCHMARK LG1, A FRESNO COUNTY BRASS CAP AT THE INTERSECTION OF AMERICAN AVENUE AND PLACER AVENUE, 27.3' SOUTHEAST OF A GUY POLE, 1.0' EAST OF A POWER POLE, HAS AN NGVD29 ELEVATION OF 172.408 FEET PER COUNTY OF FRESNO BENCHMARK RECORDS.

GENERAL LEGEND

ABBREVIATIONS

AADS	AMERICAN AVE DISPOSAL SITE
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AHD	AHEAD
ALIGN	ALIGNMENT
ALY	ALLEY
AP	ANGLE POINT
APCH	APPROACH
APPROX	APPROXIMATE ± ( )
AS	AGGREGATE SUBBASE
ASSY	ASSEMBLY
AV	AIR RELEASE VALVE
AVE	AVENUE
BB	BEGINNING OF BRIDGE
BC	BEGIN HORIZONTAL CURVE
BCM	BRASS CAP MONUMENT
BCR	BEGIN CURB RETURN
BEG	BEGIN(ING)
BKF	BACKFILL
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCH MARK
BR	BRIDGE
BVC	BEGIN VERTICAL CURVE
BW	BARBED WIRE
CC	CENTER TO CENTER
CF	CUBIC FOOT (FEET)
CFS	CUBIC FEET PER SECOND
C & G	CURB AND GUTTER
CHNL	CHANNEL
CI	CITY
CIDH	CAST-IN DRILLED HOLE
CIP	CAST IRON PIPE
CIPCP	CAST-IN-PLACE CONCRETE PIPE
C/L (℄)	CENTER LINE
CL	CHAIN LINK
CLR	CLEAR (ING), CLEARANCE
CMP	CORRUGATED METAL PIPE
CNL	CUT NEAT LINE
CNS	COMPACTED NATIVE SOIL
CO	COUNTY
COMM	COMMERCIAL
CONC	CONCRETE
CONST	CONSTRUCT (ION)
CONT	CONTINUOUS
CP	CONCRETE PIPE
CR	CURB RAMP
CS	COTTON SPINDLE
CSP	CORRUGATED STEEL PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CA TV	CABLE TELEVISION
CULV	CULVERT
CY (CU YD)	CUBIC YARD(S)
DI	DRAINAGE INLET
DIA	DIAMETER
DIR	DIRECTION
DIST	DISTANCE
DO	DRAINAGE OUTLET
DWY	DRIVEWAY
EA	EACH
EASE	EASEMENT
EB	END OF BRIDGE
E/B	EAST BOUND
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
ED	END DIKE
ELEV	ELEVATION
(ELEV)	EXISTING ELEVATION
EMB	EMBANKMENT
EP	EDGE OF PAVEMENT
EQ	EQUAL
ES	EDGE OF SHOULDER
ETL	EDGE OF TRAVEL LANE
EVC	END VERTICAL CURVE
EW	ENDWALL
EXC	EXCAVATION
EXIST / (E)	EXISTING
EXP JT	EXPANSION JOINT
FCBCM	FRESNO COUNTY BCM
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTIC
FT	FOOT (FEET)
GAL	GALLON (S)
GV	GAS VALVE
GB	GRADE BREAK
GP	GRADING PLANE
GRUB	GRUBBING
GW	GUY WIRE
HORIZ	HORIZONTAL
HP	HINGE POINT
HS	HIGH STRENGTH
HW	HEAD WALL
HWM	HIGH WATER MARK
HWY	HIGHWAY
IB	IMPORTED BORROW
ID	INSIDE DIAMETER
IP	IRON PIPE
IRR	IRRIGATION
IV	IRRIGATION VALVE
JP	JOINT POLE
JT	JOINT
L LINE	LAYOUT LINE
LBS	POUNDS
LF	LINEAR FOOT
LOC	LOCATION
LP	LIMIT OF PAYMENT
LT	LEFT
MAX	MAXIMUM
MB	METAL BEAM
MBGR	METAL BEAM GUARD RAILING
MH	MANHOLE
MI	MILE (S)
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODIFY (IED)
MON	MONUMENT
MP	MILE POST
MTL	MATERIAL
N/A	NOT APPLICABLE
NBL	NORTH BOUND LANE
NO (#)	NUMBER
NS	NATIVE SOIL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
PB	PULL BOX
PBS	PULV BIT SURF
PE	POLYETHYLENE
PCC	PORTLAND CEMENT CONCRETE
PERM	PERMEABLE
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE
POC	POINT OF CONNECTION
POT	POINT ON TANGENT
PP	POWER POLE
PPP	PERFORATED PLASTIC PIPE
PR/W	PROPOSED RIGHT OF WAY
PROT	PROTECT
PSI	POUNDS PER SQUARE INCH
PT	PEDESTAL TELEPHONE
PNT	POINT
PULV	PULVERIZED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
R & D	REMOVE AND DISPOSE
R & R	REMOVE AND REPLACE
REL	RELOCATE
REM	REMOVE
RET	RETAINING
RG	RUBBER GASKET
RLG	ROCK LINED GUTTER
RR	RAILROAD
RT	RIGHT
RTE	ROUTE
RW	RETAINING WALL
R/W	RIGHT OF WAY
S	SLOPE
SALV	SALVAGE
SBL	SOUTH BOUND LANE
SEC	SECTION
SDWK	SIDEWALK
SH	STATE HIGHWAY
SHLDR	SHOULDER
SHT	SHEET
S/L	SECTION LINE
SP	STANDPIPE
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH
ST	STREET
STA	STATION
STD	STANDARD
STRUC	STRUCTURAL
SURF	SURFACING
STP	STEEL PIPE
SWR	SEWER
TAN OFF	TANGENT OFFSET
TBM	TEMPORARY BM
TBR	TIMBER
TCP	TEMPORARY CONST PERMIT
TFC	TOP FACE OF CURB
TOP	TOP OF PAVEMENT
TOT	TOTAL
TP	TELEPHONE POLE
TCB	TRAFFIC CONTROL BOX
TRANS	TRANSVERSE
TS	TRAFFIC SIGNAL
TYP	TYPICAL
TYP SEC	TYPICAL SECTION
UC	UNDERCROSSING
UG	UNDERGROUND
UD	UNDERDRAIN
UDR	UNDERDRAIN RISER
UP	UNDERPASS
VAR	VARIES (ABLE)
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VG	VALLEY GUTTER
VP	VENT PIPE
W/B	WEST BOUND
WM	WATER METER
WP	WEAKENED PLANE
WR	WHEELCHAIR RAMP
WV	WATER VALVE
WW	WINGWALL

CONSTRUCTION SYMBOLS

- A — TYPE "A" CURB
- B3 — TYPE "B3" CURB
- FA — TYPE "FA" CURB
- CE — FA CURB EXTENSION
- CNL — CUT NEAT LINE
- RD — RESIDENTIAL SIDEWALK
- AS STA W — ADJACENT RES SIDEWALK
- HW STA D — CONCRETE HOUSEWALK
- VG STA D — VALLEY GUTTER
- MB STA — MAIL BOX
- W STA D — CONCRETE DRIVEWAY
- W STA D S° — AC DRIVEWAY
- W STA D S° — DIRT DRIVEWAY
- W STA D — MODIFY CONC DRIVEWAY
- "W" — DENOTES WIDTH
- "D" — DENOTES MATCH DISTANCE
- "S°" — DENOTES SKEW ANGLE
- DI TC STA — DRAINAGE INLET
- DO TC STA — DRAINAGE OUTLET
- MH STA OFFSET — INSTALL MANHOLE
- WV STA OFFSET — INSTALL WATER VALVE
- MH — ADJUST MANHOLE
- AV STA OFFSET — ADJUST AIR RELEASE VALVE
- WV — ADJUST WATER VALVE
- DD — 2" AC DEPRESSED DIKE
- ID — 4" AC INTERMEDIATE DIKE
- D — 6" AC DIKE
- R — RADIUS
- "R" — DENOTES RADIUS IN FEET
- SM — SURVEY MONUMENT
- CC — CONCRETE COLLAR
- GM — GRADE MATCH
- SC — SAW CUT
- OD STA L — OVERSIDE DRAIN
- S — MISC TRAFFIC SIGN
- SS — STOP SIGN
- "L" — DENOTES LENGTH IN FEET
- SECTION CORNER
- MA — PLACE AC , MISC AREA
- DIRECTION OF FLOW
- GRADE TO FLOW
- CHAIN LINK FENCE
- WIRE FENCE
- DAYLIGHT LIMIT
- L — GP AND LP ROADWAY EXC
- X / X — DWG. NO. / SHEET NO. — REFERENCE TO STATE STANDARD PLAN DETAIL
- X / X — DWG. NO. / SHEET NO. — REFERENCE TO DETAIL ON DWG. OR DETAIL TITLE
- X / X — DWG. NO. / SHEET NO. — SECTION CUT
- CONCRETE
- NEW HMA
- EXIST OG
- COMPACTED EARTH
- AGGREGATE BASE

EXISTING IMPROVEMENTS

- A — TYPE "A" CURB
- B3 — TYPE "B3" CURB
- FA — TYPE "FA" CURB
- CS — COMM SIDEWALK
- RS — RES SIDEWALK
- VG — VALLEY GUTTER
- SM — SURVEY MON
- MB — MAIL BOX
- x — WIRE FENCE
- o — CHAIN LINK FENCE
- ( ) — METAL FENCE
- [ ] — WOOD FENCE
- I o I — PVC FENCE
- \ I / — MISC LANDSCAPING

UTILITY NOTES

1. LOCATIONS OF EXISTING UNDERGROUND FACILITIES ARE APPROXIMATE EXACT DEPTH AND LOCATIONS ARE UNKNOWN. FIELD LOCATE PRIOR TO THE START OF CONSTRUCTION.

CALL UNDERGROUND SERVICE ALERT (USA) 811

UTILITY SYMBOLS

- STAND PIPE
- IRR UG PIPE FLOW
- IRR UG PIPE CAPPED
- IRR VALVE SCREWGATE
- IRR TOP GATE VALVE
- IRR PIPE 12" VERTICAL
- VENT PIPE
- IRR VALVE - BUBBLER
- IRR VALVE, DRIP SYSTEM
- IRR PIPE 4" VERT OUTLET
- WATER WELL
- WATER WELL PUMP
- WATER STORAGE TANK
- FIRE HYDRANT
- IRR 2"-4" PIPE RISER
- MH-STORM DRAIN
- MH-ELECTRICAL
- MH-FO/CABLE
- MH-GAS
- MH-SANITARY SWR
- MH-TELEPHONE
- MH-WATER
- ELEC METER
- ELECTRIC VAULT
- CHRISTY BOX
- TELEPHONE VAULT
- GAS METER
- GAS VALVE
- WATER METER
- WATER VALVE
- HOSE BIB
- C — UG COPPER CABLE
- D — UG STORM DRAIN LINE
- E — UG ELECTRIC LINE
- FO — UG FIBER OPTIC
- G — UG GAS LINE
- S — UG SANITARY SEWER
- T — UG TELEPHONE LINE
- W — UG WATER LINE
- OHE — OVERHEAD ELEC LINE
- OHT — OVERHEAD TELE LINE
- MH-GASOLINE FILLER
- GASOLINE VENT PIPE
- GASOLINE PUMP
- CLEAN OUT
- BACKFLOW PREVENTER
- SPRINKLER
- STREET LIGHT POLE
- EXISTING SIGNAL POLE
- STORM DRAIN DROP INLET
- STORM DRAIN GRATE
- STEEL DRAIN PIPE
- DOWN DRAIN
- WARNING SIGN
- WARNING SIGN
- WARNING SIGN
- WARNING SIGN
- WARNING SIGN
- WARNING SIGN
- WARNING SIGN
- ELECTRIC PULL BOX
- PEDESTAL-TELEPHONE

EXISTING

- TELEPHONE POLE
- POWER POLE
- JOINT POLE
- JOINT TRANSFORMER POLE
- TRANSFORMER POLE
- GUY POLE
- GUY WIRE

	DATE	RECORD DRAWING		DATE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER		
DRAWN: J. WAGNER	03/19/2021			
CHECKED: S. ARTAL	03/19/2021			

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

SCALE: NOT TO SCALE

SUPERVISING ENGINEER — DATE: 3/29/2021

REGISTERED PROFESSIONAL ENGINEER — SEBASTIAN T. ARTAL — No. C76724 — Exp.12/31/20 — CIVIL — STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE
ENTRANCE IMPROVEMENTS

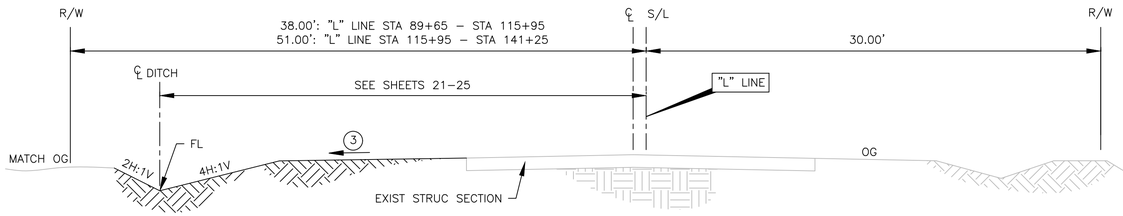
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

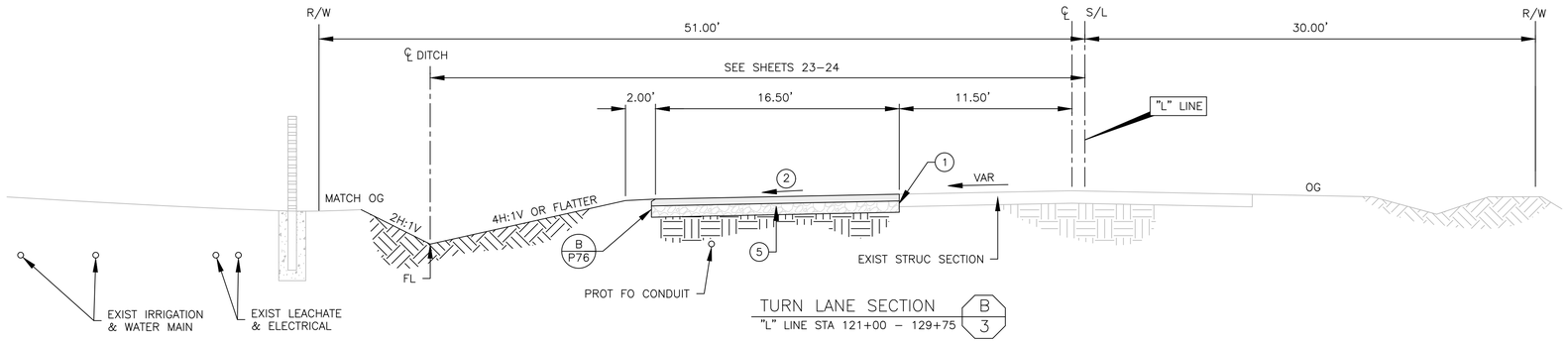
LEGEND

DRAWING NO. 11301 SHEET NO. 2 TOTAL 38



TYPICAL SECTION (A / 3)

"L" LINE STA 89+65± – 115+41
"L" LINE STA 130+95± – 141+56



TURN LANE SECTION (B / 3)

"L" LINE STA 121+00 – 129+75

NORTHING	EASTING	DIRECTION	BEGIN STA	END STA	LENGTH
14968.27	12429.02	N 05°06'30" W	0+20.52	1+63.95	143.43 FT
15111.13	12416.25	N 00°00'00" W	1+63.95	3+75.74	211.79 FT
15322.93	12416.25	N 15°00'00" W	3+75.74	4+00.00	24.26 FT
15346.36	12409.97	N 00°35'05" E	4+00.00	5+21.95	121.95 FT

AADS ENTRANCE "C" LINE DATA (C / 3)

NORTHING	EASTING	DIRECTION	BEGIN STA	END STA	LENGTH
14952.95	9717.41	N 89°56'33" E	89+21.96	115+60.35	2638.38 FT
14955.60	12355.79	N 89°40'07" E	115+60.35	142+25.95	2665.60 FT
14971.01	15021.35	N 89°39'22" E	142+25.95	168+91.34	2665.40 FT

AMERICAN AVE "L" LINE DATA (L / 3)

NOTES:

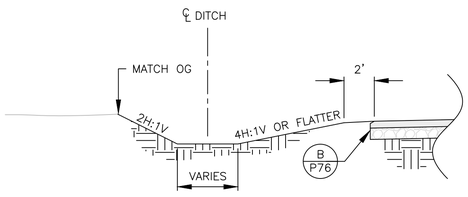
1. CUT NEAT LINE AT 11.5' FROM C/L
2. CROSS SLOPE TO MATCH EXIST TRAVEL LANE CROSS SLOPE
3. GRADE OG 5%
4. N/A
5. STRUCTURAL SECTION 0.55' HMA / 1.45' AB + GEOGRID REINFORCEMENT / 95% CNS
6. GATE ACCESS PAVEMENT 0.25' THICK HMA.

NORTHING	EASTING	DIRECTION	BEGIN STA	END STA	LENGTH
15058.97	10667.01	N 89°52'40" E	0+79.79	1+73.35	93.56 FT
15059.17	10760.57	S 89°57'30" E	1+73.35	6+73.91	500.56 FT
15058.81	11261.13	S 89°58'00" E	6+73.91	11+72.50	498.59 FT
15058.52	11759.72	N 89°41'35" E	11+72.50	13+05.72	133.22 FT
15059.23	11892.93	N 89°47'23" E	13+05.72	15+29.54	223.82 FT
15060.05	12116.75	N 87°48'13" E	15+29.54	16+70.80	141.26 FT
15065.47	12257.91	N 62°46'07" E	16+70.80	17+93.01	122.21 FT

AADS DITCH "M" LINE (M / 3)

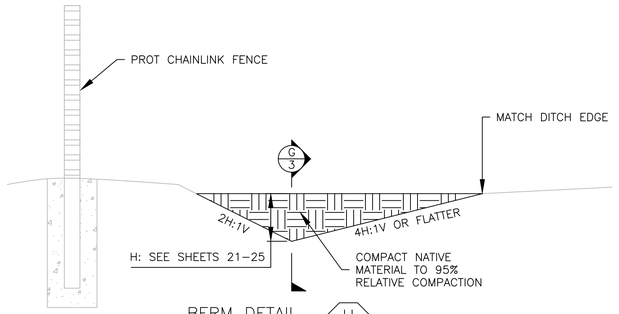
NORTHING	EASTING	DIRECTION	BEGIN STA	END STA	LENGTH
15084.37	12471.23	S 71°16'36 E	19+05.47	19+11.47	6.00 FT
15082.44	12476.92	S 84°46'43" E	19+11.47	19+18.92	7.45 FT
15081.77	12484.34	S 87°08'23" E	19+18.92	19+60.16	41.24 FT

AADS DITCH "N" LINE (N / 3)

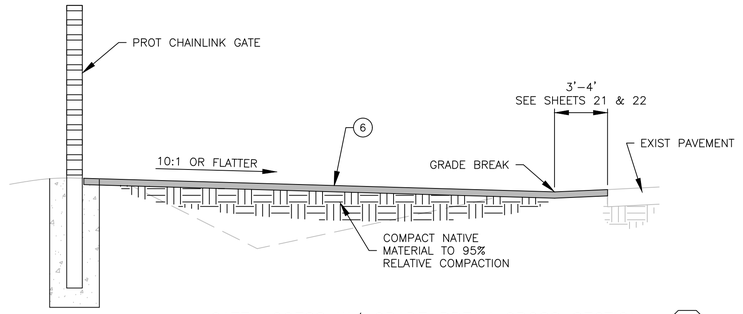


DITCH AT AADS ENTRANCE (K / 3)

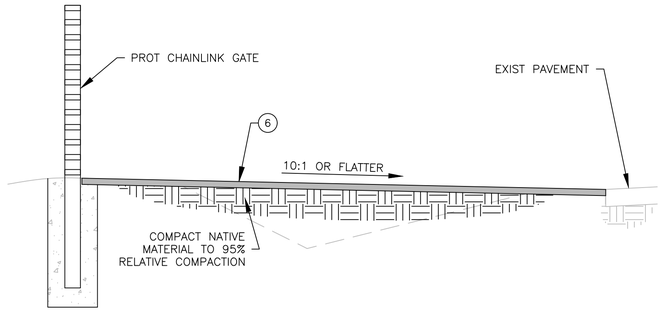
"L" LINE STA 116+90 – 119+00
"L" LINE STA 120+00 – 121+00



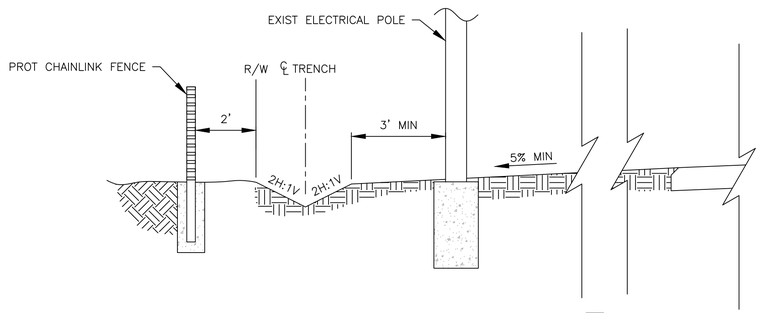
BERM DETAIL (H / 3)



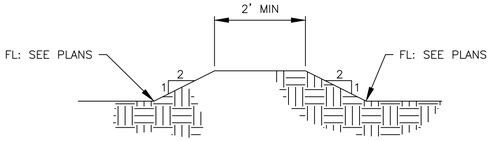
GATE ACCESS W/ GRADE BREAK CROSS SECTION (E / 3)



GATE ACCESS CROSS SECTION (D / 3)



DITCH DETAIL AT POWER POLES (J / 3)



LONGITUDINAL BERM DETAIL (G / 3)

	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	NOT TO SCALE
DRAWN: J. WAGNER	03/19/2021			
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

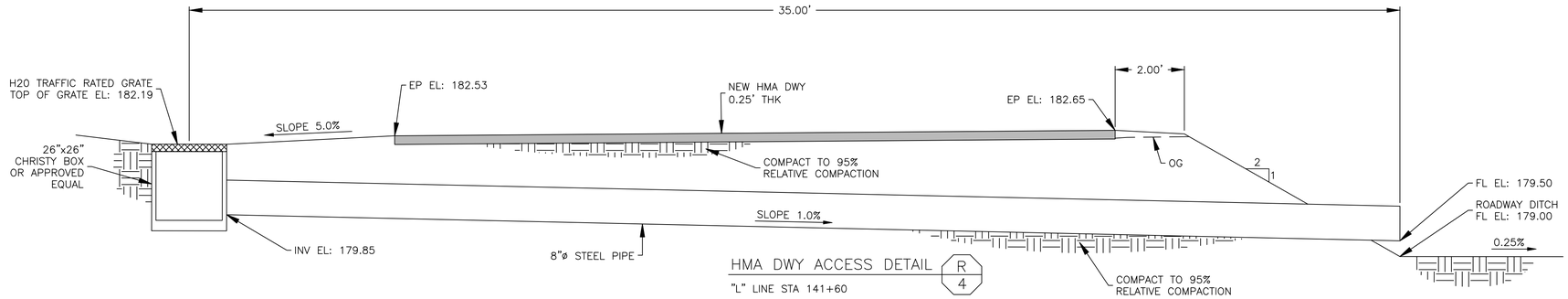
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

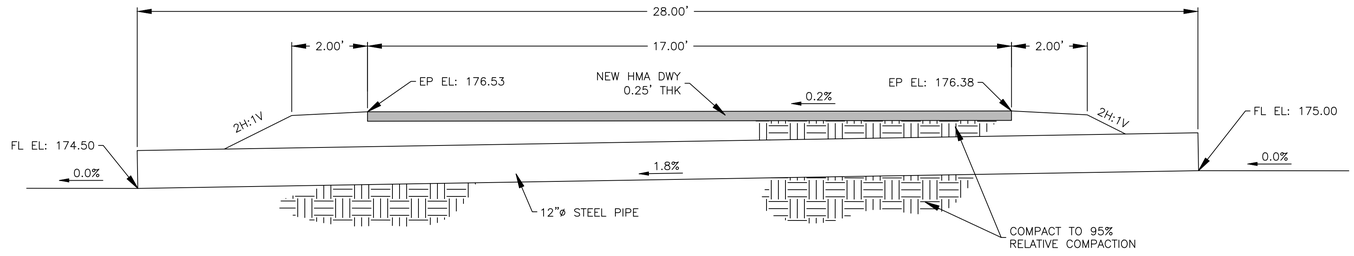
STORAGE LANE & OUTSIDE DITCH DETAILS

DRAWING NO. 11301 SHEET NO. 3 TOTAL 38



HMA DWY ACCESS DETAIL R 4

"L" LINE STA 141+60



GATE ACCESS DETAIL Z 4

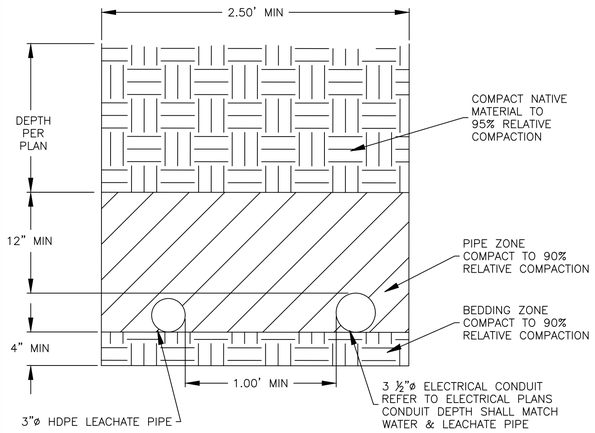
"L" LINE STA 104+00

	DATE	RECORD DRAWING		SCALE			PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	NOT TO SCALE	SUPERVISING ENGINEER	3/29/2021 DATE	AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS	ACCESS DETAILS
DRAWN: J. WAGNER	03/19/2021						----	
CHECKED: S. ARTAL	03/19/2021						ROAD NO. S0500 BRIDGE NO. N/A	DRAWING NO. 11301 SHEET NO. 4 TOTAL 38

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

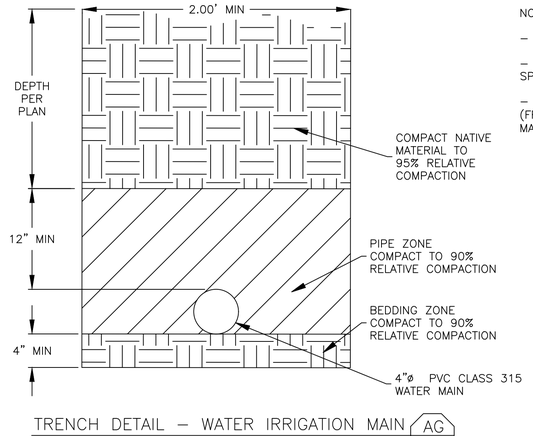
THE COUNTY OF FRESNO

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



TRENCH DETAIL – LEACHATE & ELECTRICAL AH 5

EXCEPT UNDER EXISTING ROAD



TRENCH DETAIL – WATER IRRIGATION MAIN AG 5

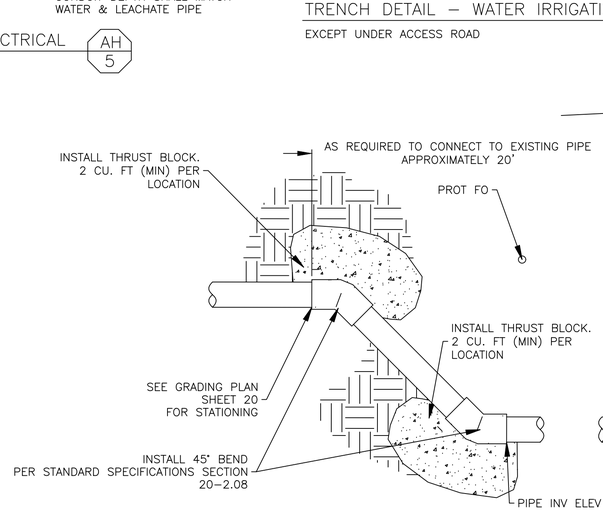
EXCEPT UNDER ACCESS ROAD

NOTES:

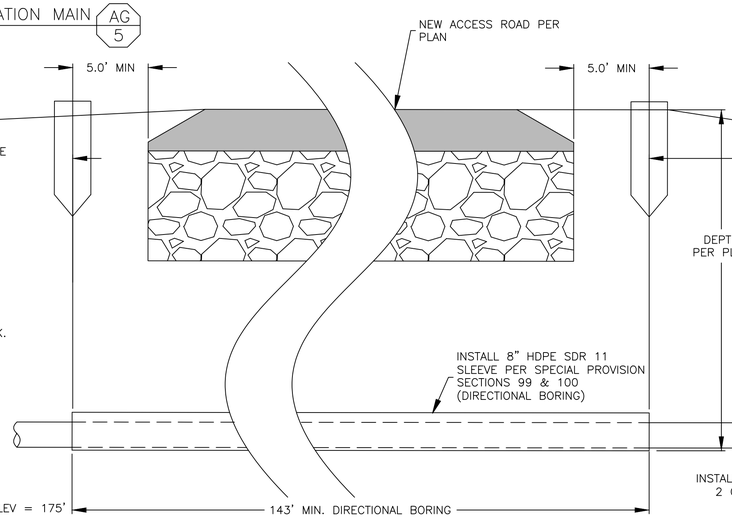
– REFER TO SHEET 20 UTILITIES LOCATION AND POINT OF CONNECTION.

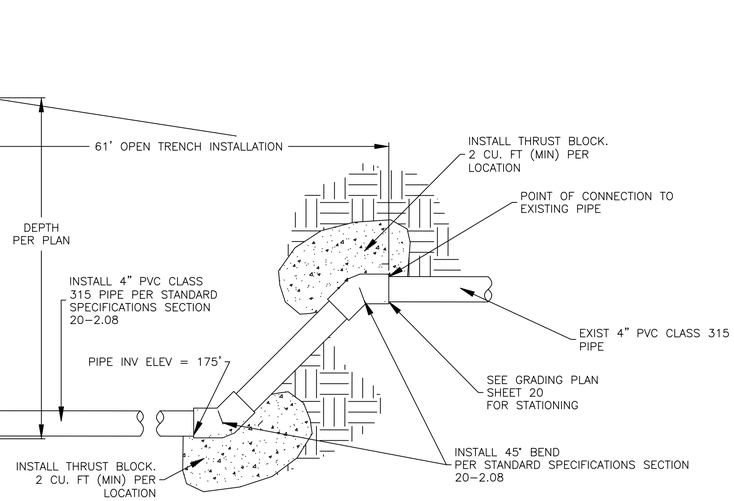
– CONTRACTOR IS REQUIRED TO INSTALL UTILITIES WITH DIRECTIONAL BORING AT THE SPECIFIED LOCATION AND LENGTH

– CONTRACTOR MAY USE SELECT NATIVE MATERIAL IF IT MEETS SECTION 64–2.02B (FREE OF LUMPS LARGER THAN 2") FOR BEDDING & PIPE ZONE. OTHERWISE IMPORT MATERIAL MEETING THIS GRADATION.

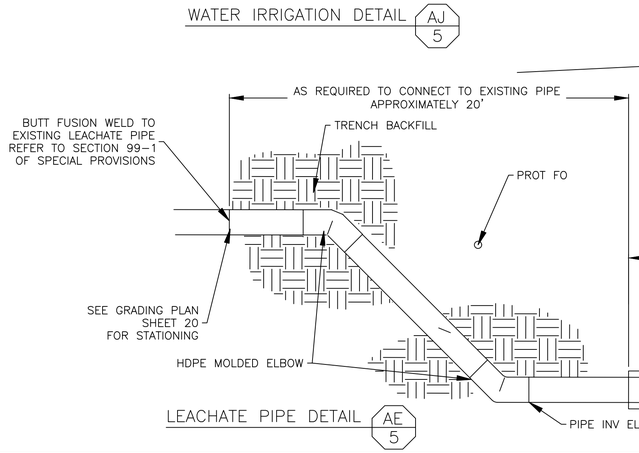


WATER IRRIGATION DETAIL AJ 5

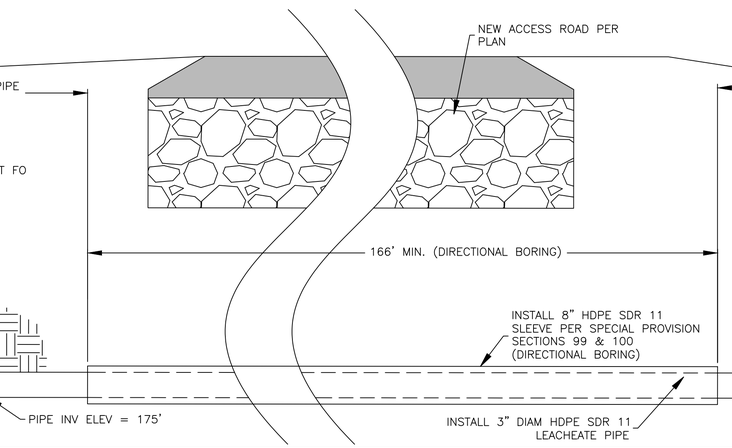


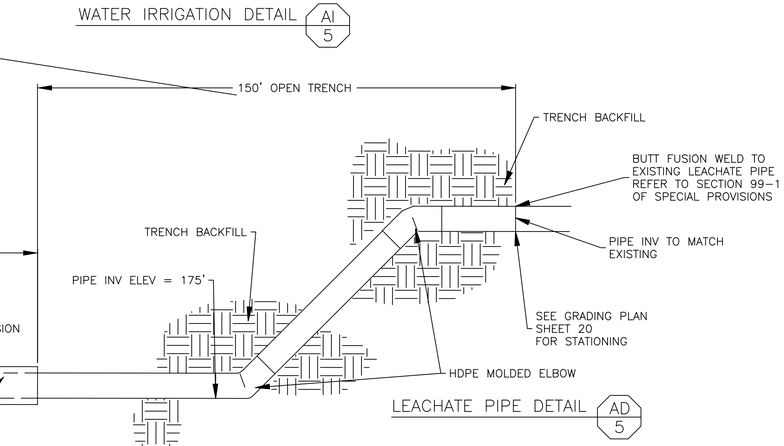


WATER IRRIGATION DETAIL AI 5



LEACHATE PIPE DETAIL AE 5





LEACHATE PIPE DETAIL AD 5

	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	NOT TO SCALE
DRAWN: J. WAGNER	03/19/2021			
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

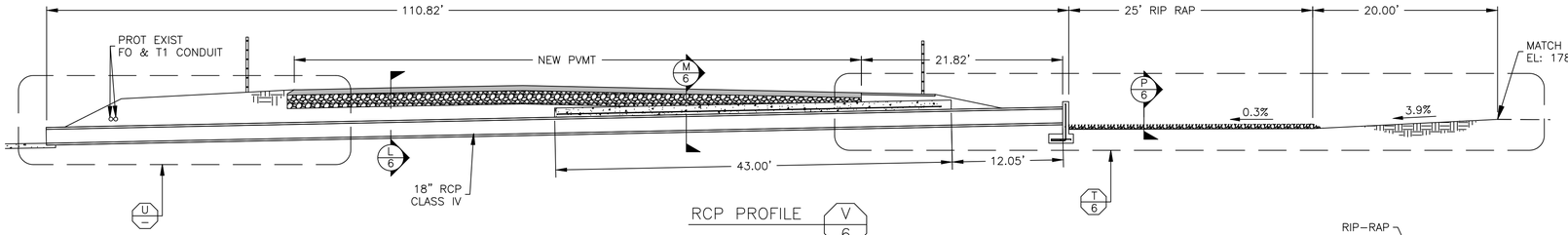
AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

ROAD NO. S0500 BRIDGE NO. N/A

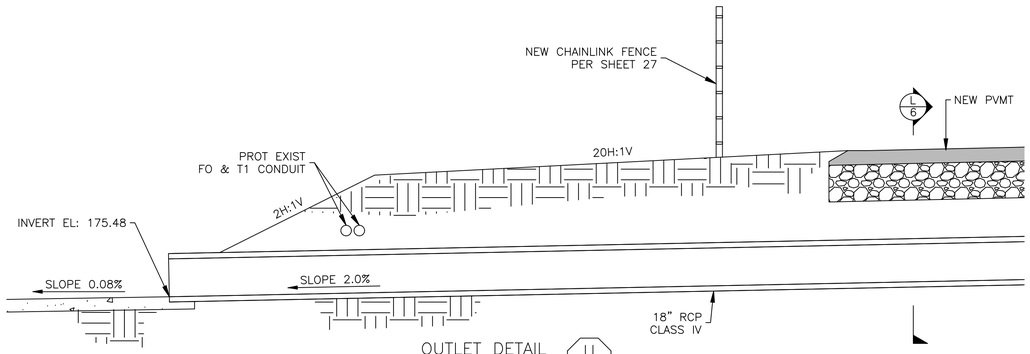
DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY DETAILS

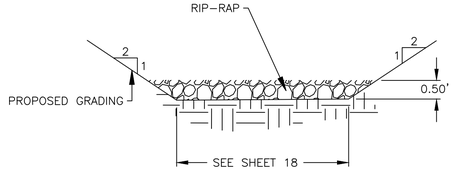
DRAWING NO. 11301 SHEET NO. 5 TOTAL 38



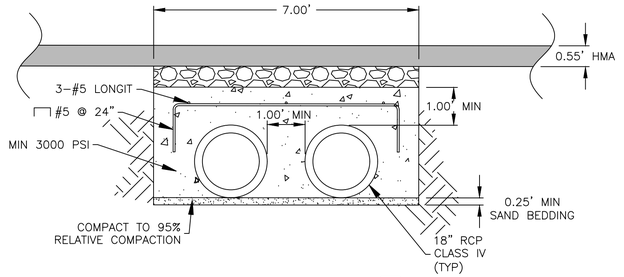
RCP PROFILE V 6



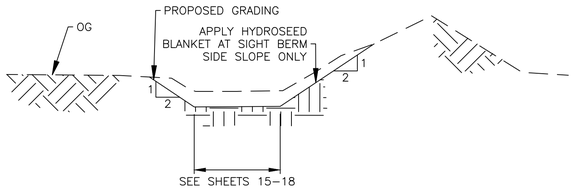
OUTLET DETAIL U 6



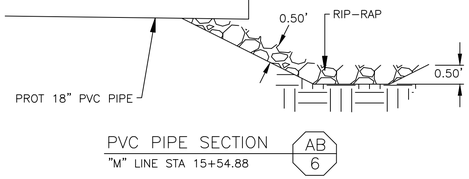
RIP RAP SECTION P 6



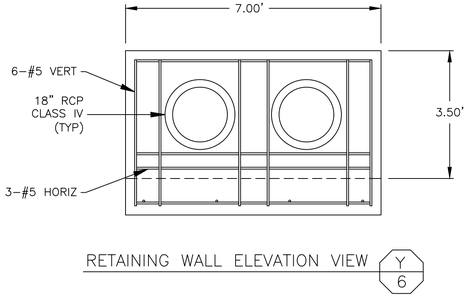
RCP CROSS SECTION M 6



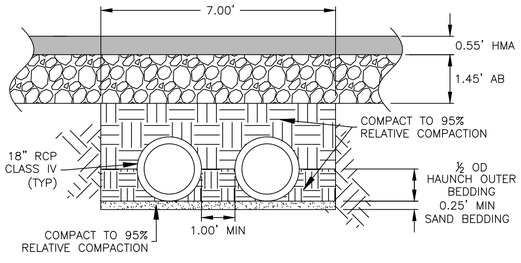
TYPICAL LANDFILL PERIMETER DITCH N 6



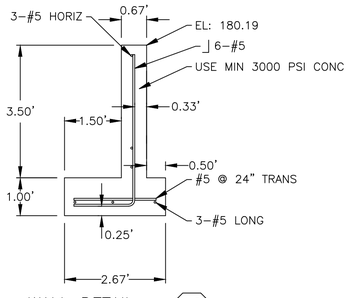
PVC PIPE SECTION AB 6
"M" LINE STA 15+54.88



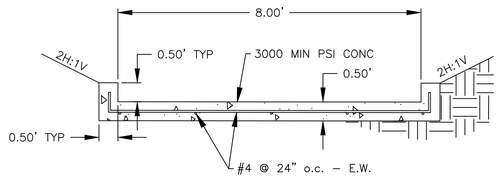
RETAINING WALL ELEVATION VIEW Y 6



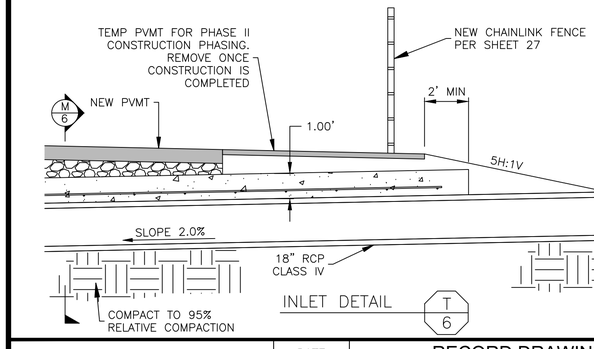
RCP CROSS SECTION L 6

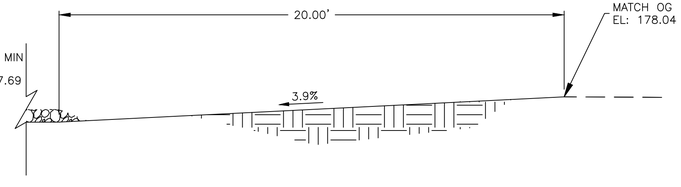


WALL DETAIL AC 6

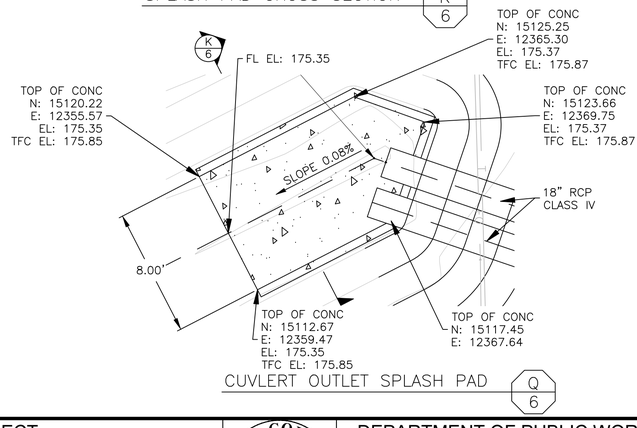


SPLASH PAD CROSS SECTION K 6





INLET DETAIL T 6



CUVLERT OUTLET SPLASH PAD Q 6

	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	NOT TO SCALE
DRAWN: J. WAGNER	03/19/2021			
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

ROAD NO. S0500 BRIDGE NO. N/A

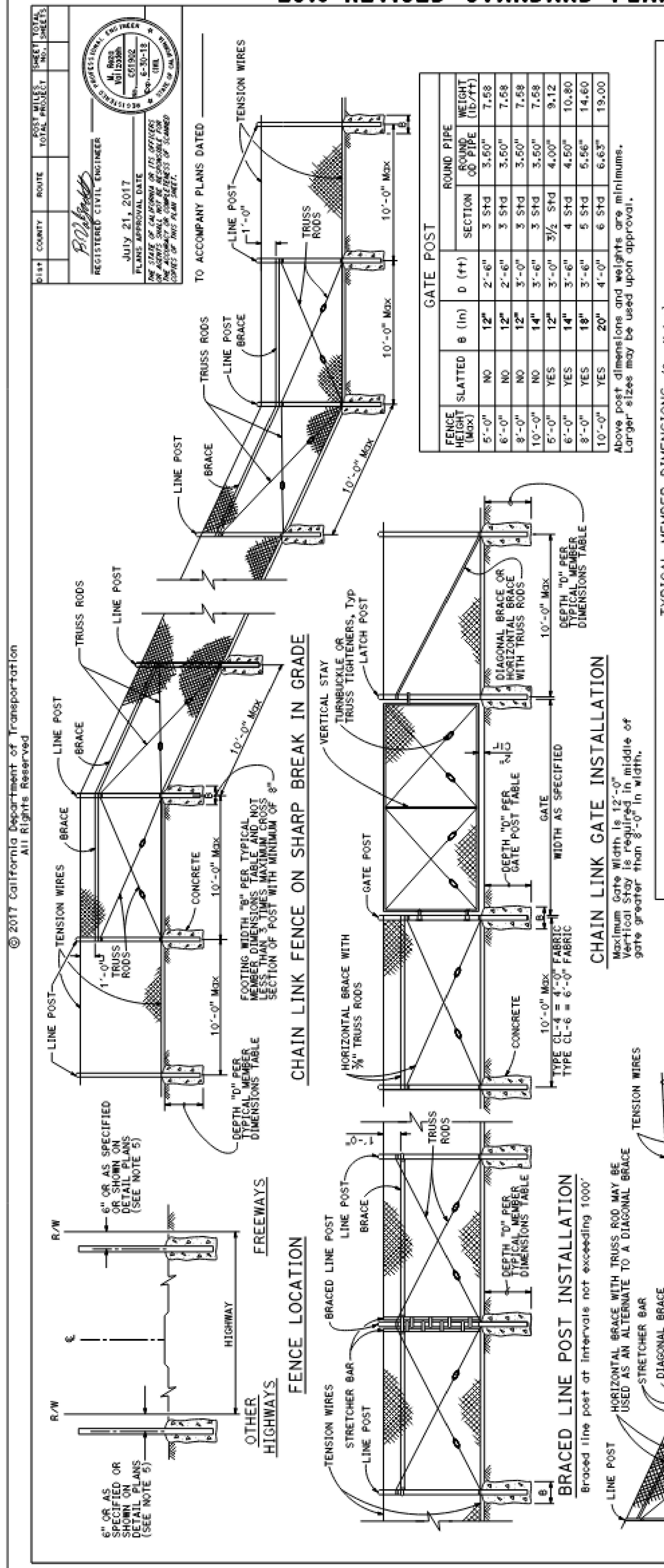
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ENTRANCE CULVERT DETAILS

DRAWING NO. 11301 SHEET NO. 6 TOTAL 38

2015 REVISED STANDARD PLAN RSP A85



GATE POST						
FENCE HEIGHT (Max)	SLATTED	B (in)	D (ft)	ROUND PIPE		
				SECTION	ROUND OD PIPE	WEIGHT (lb/ft)
5'-0"	NO	12"	2'-6"	3 Std	3.50"	7.58
6'-0"	NO	12"	2'-6"	3 Std	3.50"	7.58
8'-0"	NO	12"	3'-0"	3 Std	3.50"	7.58
10'-0"	NO	14"	3'-6"	3 Std	3.50"	7.58
5'-0"	YES	12"	3'-0"	3½ Std	4.00"	9.12
6'-0"	YES	14"	3'-6"	4 Std	4.50"	10.80
8'-0"	YES	18"	3'-6"	5 Std	5.56"	14.60
10'-0"	YES	20"	4'-0"	6 Std	6.63"	19.00

Above post dimensions and weights are minimums.
Larger sizes may be used upon approval.

TYPICAL MEMBER DIMENSIONS (See Notes)													
FENCE HEIGHT (Max)	SLATTED	B (in)	D (ft)	LINE POSTS					BRACES				
				ROUND PIPE			ROLL FORMED		ROUND PIPE			ROLL FORMED	
				SECTION	ROUND OD PIPE	WEIGHT (lb/ft)	SECTION	WEIGHT (lb/ft)	SECTION	ROUND OD PIPE	WEIGHT (lb/ft)	SECTION	WEIGHT (lb/ft)
5'-0"	NO	8"	2'-6"	1½ Std	1.90"	2.72	1.875" x 1.625"	1.85	1½" Std	1.90"	2.72	1.625" x 1.250"	1.35
6'-0"	NO	10"	2'-6"	2 Std	2.38"	3.66	1.875" x 1.625"	2.40	2 Std	2.38"	3.66	1.625" x 1.250"	1.35
8'-0"	NO	12"	3'-0"	2½ Std	2.88"	5.80	3.250" x 2.500"	4.50	2 Std	2.38"	3.66	1.625" x 1.250"	1.35
10'-0"	NO	14"	3'-6"	3 Std	3.50"	7.58	3.250" x 2.500"	4.50	2½ Std	2.88"	5.80	1.625" x 1.250"	1.35
5'-0"	YES	12"	3'-0"	3½ Std	4.00"	9.12	N/A	-	2 Std	2.38"	3.66	N/A	-
6'-0"	YES	14"	3'-0"	4 Std	4.50"	10.80	N/A	-	2 Std	2.38"	3.66	N/A	-
8'-0"	YES	18"	3'-6"	5 Std	5.56"	14.60	N/A	-	2 Std	2.38"	3.66	N/A	-
10'-0"	YES	20"	4'-0"	6 Std	6.63"	19.00	N/A	-	2½ Std	2.88"	5.80	N/A	-

NOTES:

1. The table to the right shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
2. Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
3. Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
4. Options exercised shall be uniform on any one project.
5. Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
6. See Standard Plan A85B for Brace, Stretcher Bar, and Truss Tightener Details.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
July 21, 2017
PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
TO ACCOMPANY PLANS DATED

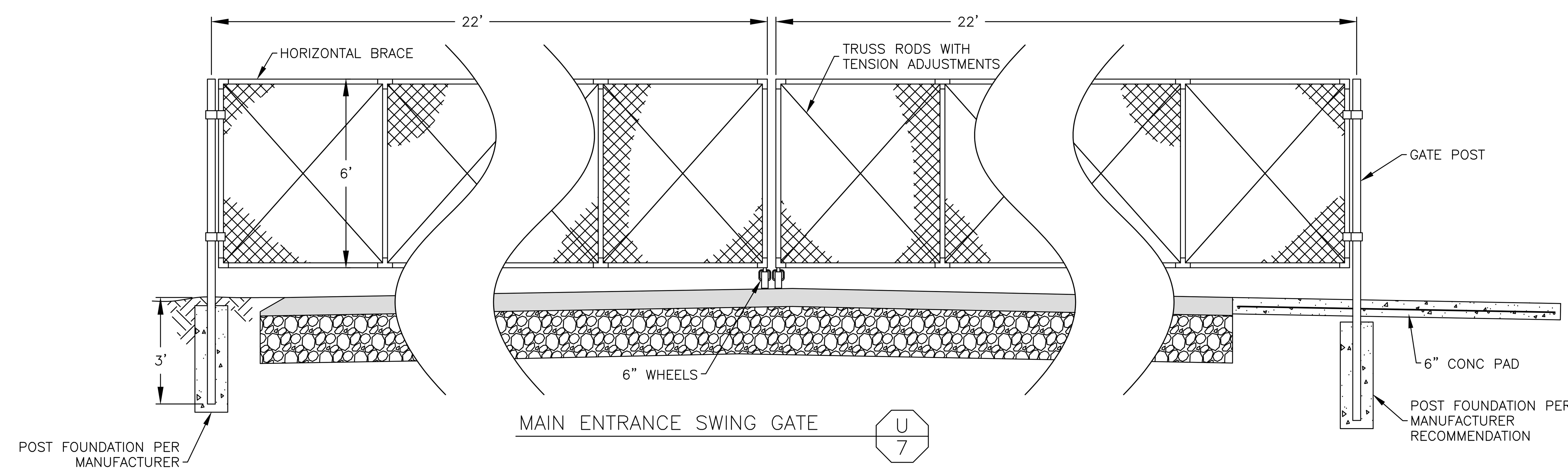
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE

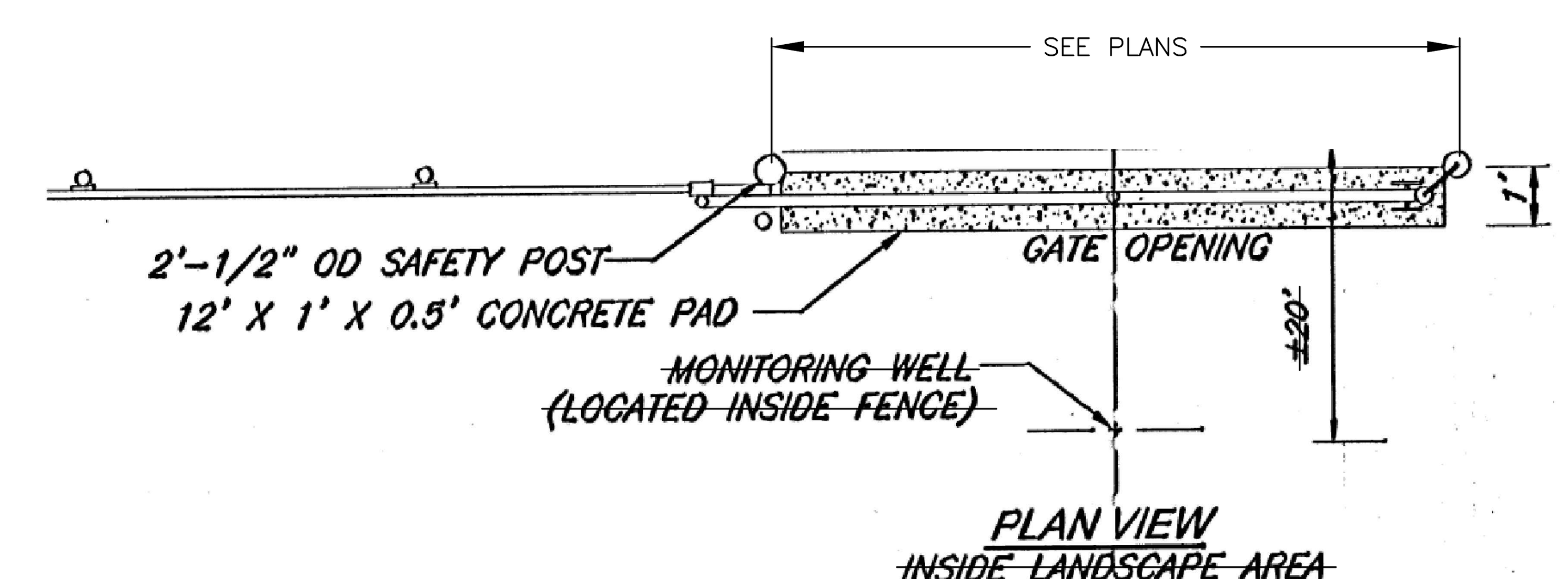
NO SCALE

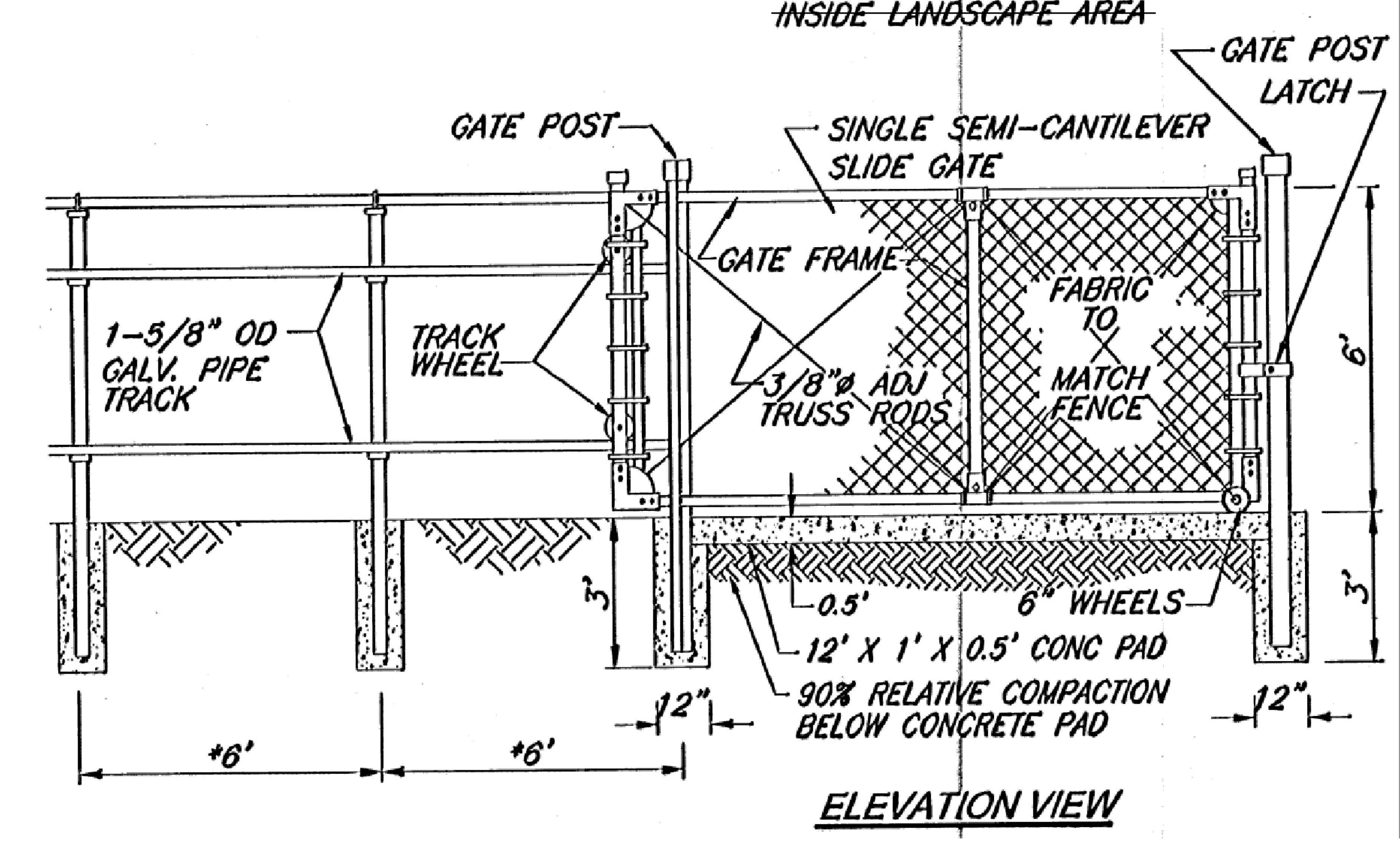
RSP A85 DATED JULY 21, 2017 SUPERSEDES RSP A85 DATED JANUARY 20, 2017 AND RSP A85 DATED JULY 15, 2016 AND STANDARD PLAN A85 DATED OCTOBER 30, 2015 - PAGE 117 OF THE STANDARD PLANS BOOK DATED 2015.

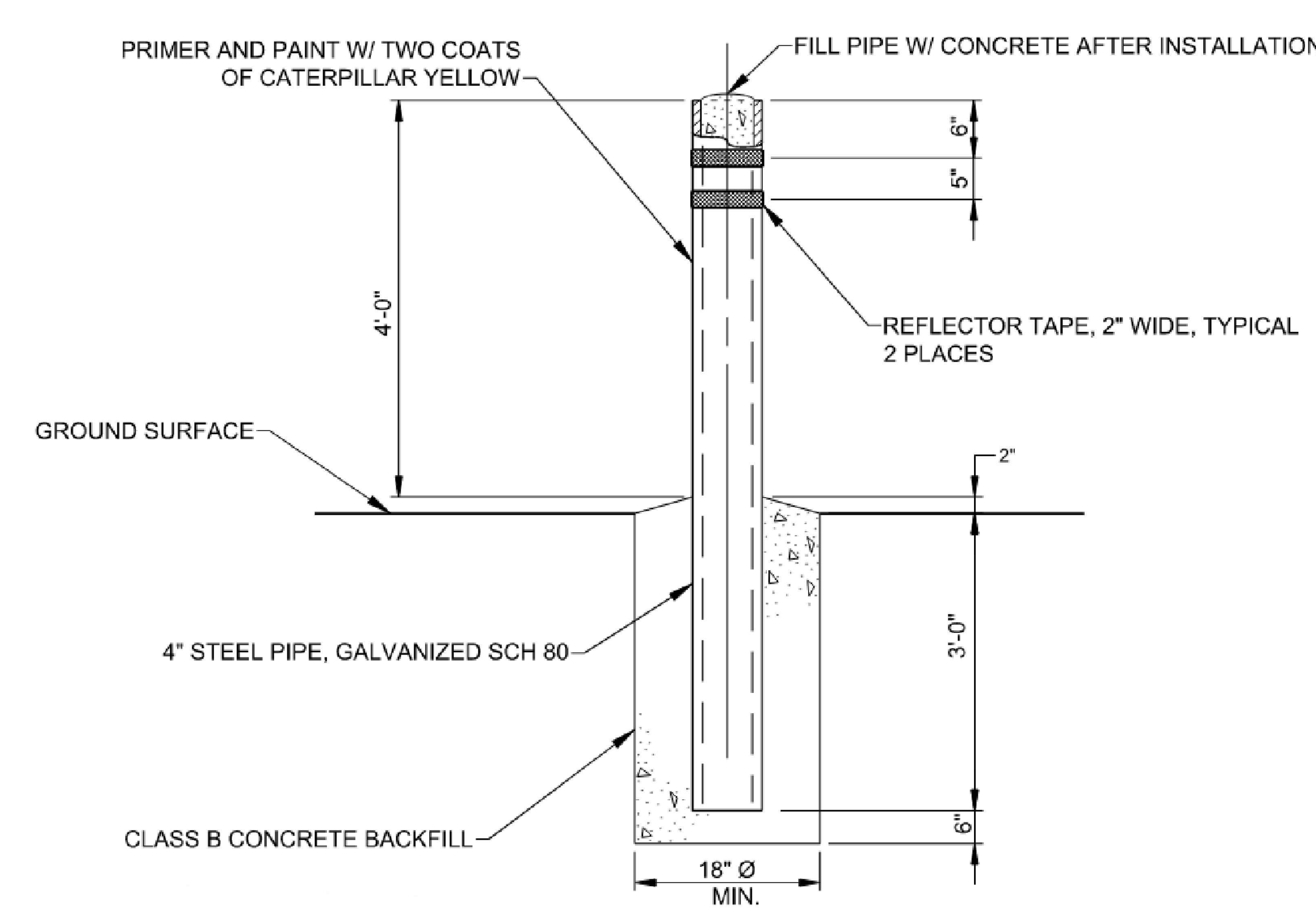
REVISED STANDARD PLAN RSP A85



MAIN ENTRANCE SWING GATE (U/7)







BOLLARD DETAIL (V/7)

CHAIN LINK SLIDE GATE DETAIL (T/7)

	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	NOT TO SCALE
DRAWN: J. WAGNER	03/19/2021			
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

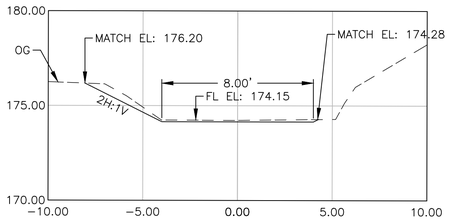
REGISTERED PROFESSIONAL ENGINEER — SEBASTIAN T. ARTAL — No. C76724 — Exp.12/31/20 — CIVIL — STATE OF CALIFORNIA

PROJECT
AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

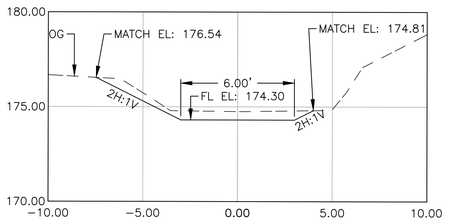
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO 1856

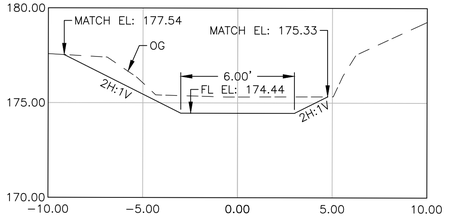
DEPARTMENT OF PUBLIC WORKS AND PLANNING
FENCING DETAILS
DRAWING NO. 11301 SHEET NO. 7 TOTAL 38



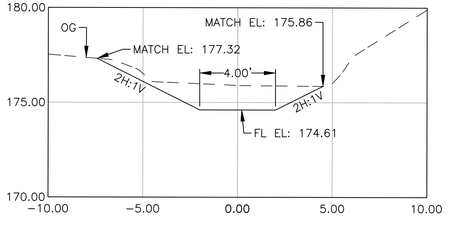
CROSS SECTION "M" LINE STA 2+00 AA 8



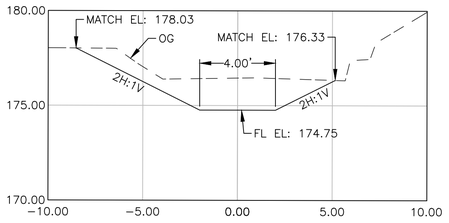
CROSS SECTION "M" LINE STA 4+00 AB 8



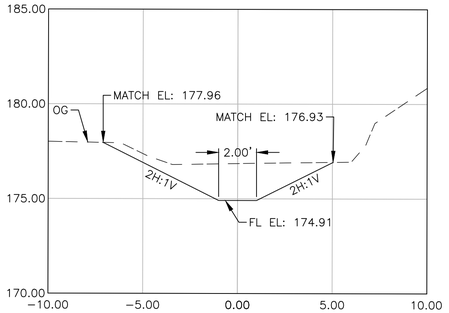
CROSS SECTION "M" LINE STA 6+00 AC 8



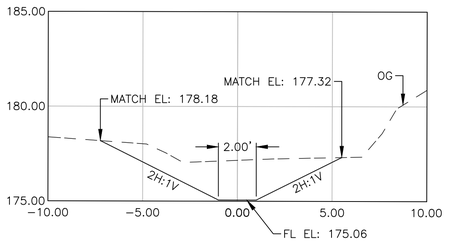
CROSS SECTION "M" LINE STA 8+00 AD 8



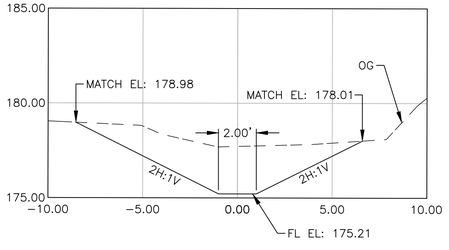
CROSS SECTION "M" LINE STA 10+00 AE 8



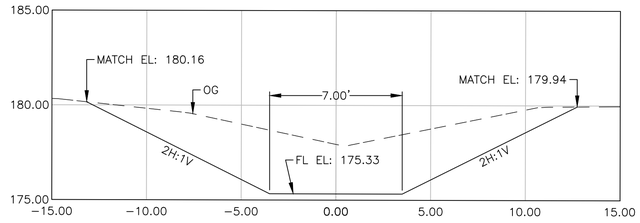
CROSS SECTION "M" LINE STA 12+00 AF 8



CROSS SECTION "M" LINE STA 14+00 AG 8



CROSS SECTION "M" LINE STA 16+00 AH 8



CROSS SECTION "M" LINE STA 17+50 AI 8

	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	HORIZ 0 4' 8'
DRAWN: J. WAGNER	03/19/2021			VERT 0 4' 8'
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

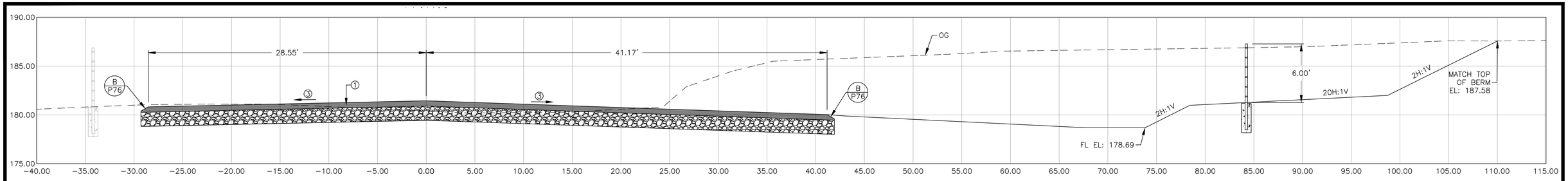
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

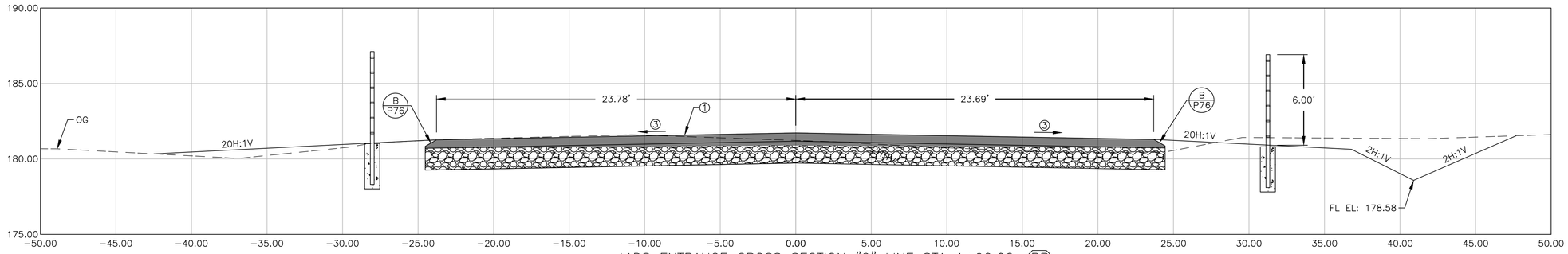
DEPARTMENT OF PUBLIC WORKS AND PLANNING

AADS DITCH CROSS SECTIONS

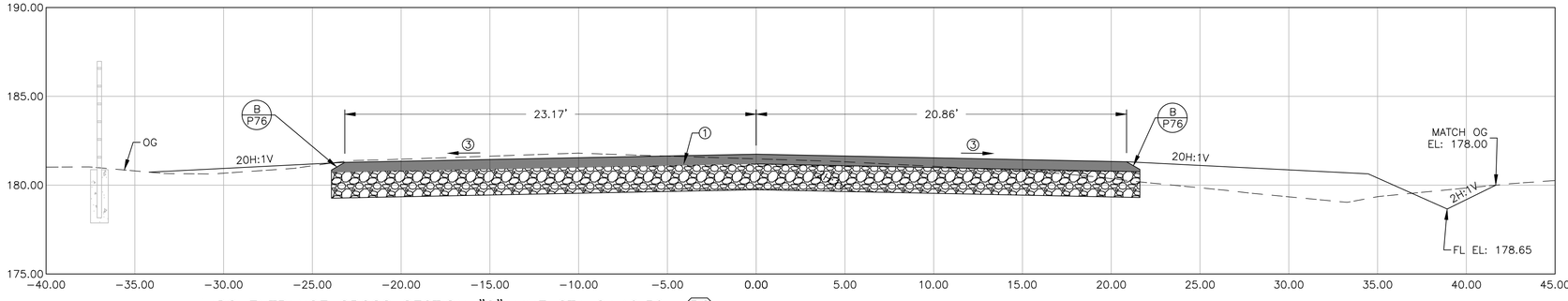
DRAWING NO. 11301 SHEET NO. 8 TOTAL 38



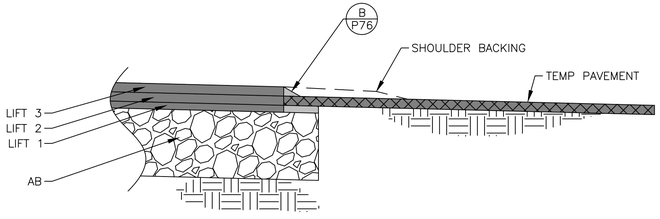
AADS ENTRANCE CROSS SECTION "C" LINE STA 1+05.00 BA 9



AADS ENTRANCE CROSS SECTION "C" LINE STA 1+90.00 BB 9



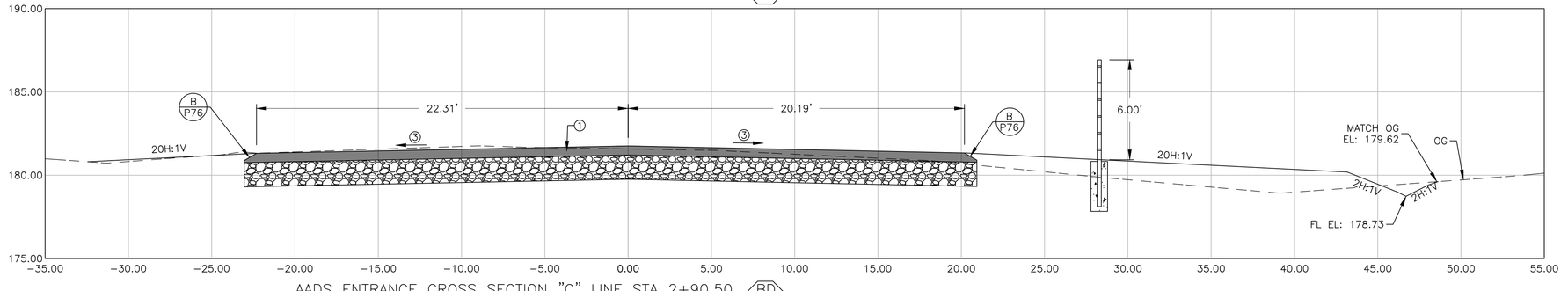
AADS ENTRANCE CROSS SECTION "C" LINE STA 2+40.50 BC 9



AADS ENTRANCE TEMPORARY PAVEMENT DETAIL

ORDER OF CONSTRUCTION
1. CONSTRUCT AB, TWO LIFTS (0.15' & 0.20') AND TEMP PAVEMENT
2. R&D TEMP PAVEMENT
3. CONSTRUCT FINAL LIFT (LIFT 3) WITH SAFETY EDGE AND SHOULDER BACKING AS SHOWN ON SHEETS 9 & 10

NOTES:
1. STRUC SECTION 0.55' HMA / 1.45' AB + GEOGRID REINFORCEMENT / 95% CNS
2. CUT NEAT LINE
3. CROSS SLOPE PER PLAN
4. SEE SHEET 9 FOR TEMPORARY PAVEMENT DETAILS



AADS ENTRANCE CROSS SECTION "C" LINE STA 2+90.50 BD 9

	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	NOT TO SCALE
DRAWN: J. WAGNER	03/19/2021			
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

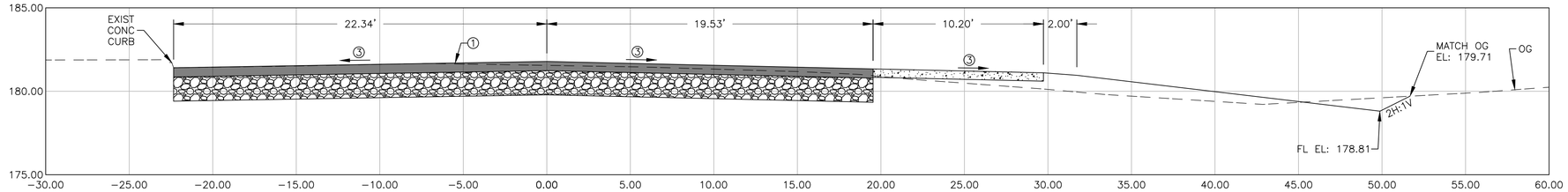
PROJECT
AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

ROAD NO. S0500 BRIDGE NO. N/A

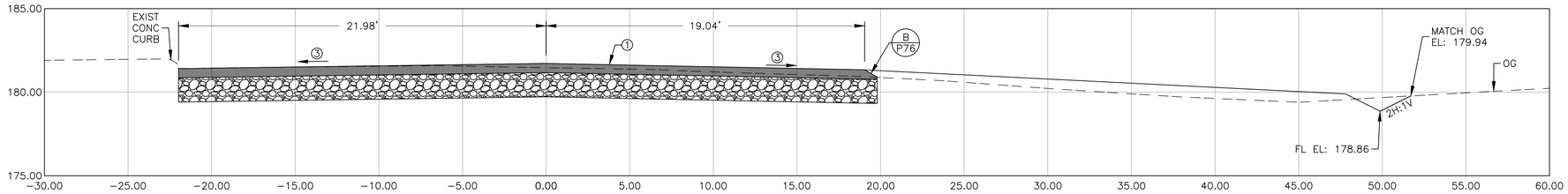
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING
AADS ENTRANCE CROSS SECTIONS
DRAWING NO. 11301 SHEET NO. 9 TOTAL 38

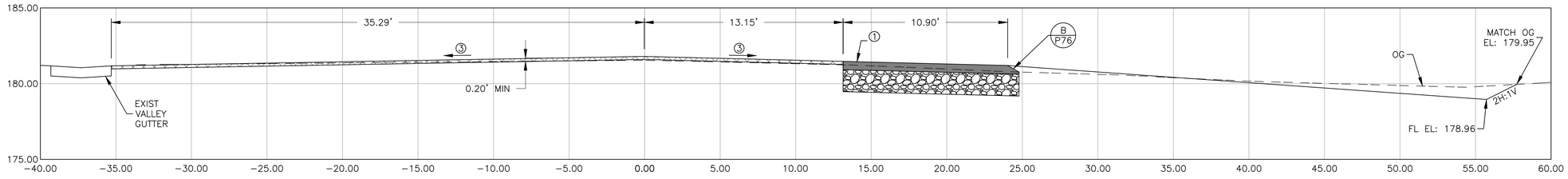
NOTES:
1. STRUC SECTION 0.55' HMA / 1.45' AB + GEOGRID REINFORCEMENT / 95% CNS
2. CUT NEAT LINE
3. CROSS SLOPE PER PLAN
4. SEE SHEET 9 FOR TEMPORARY PAVEMENT DETAILS



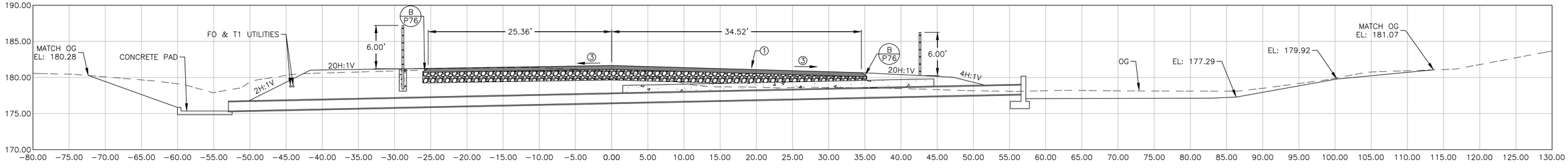
AADS ENTRANCE CROSS SECTION "C" LINE STA 3+39.50 BE 10



AADS ENTRANCE CROSS SECTION "C" LINE STA 3+75.74 BF 10



AADS ENTRANCE CROSS SECTION "C" LINE STA 4+41.50 BG 10



AADS ENTRANCE CROSS SECTION "C" LINE STA 1+58.00 BH 10

	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	NOT TO SCALE
DRAWN: J. WAGNER	03/19/2021			
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT
AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

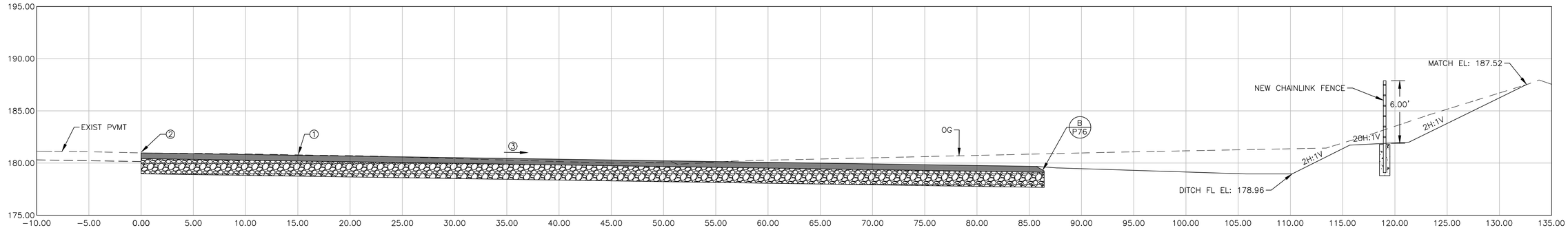
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING
AADS ENTRANCE CROSS SECTIONS
DRAWING NO. 11301 SHEET NO. 10 TOTAL 38

NOTE:

1. STRUCTURAL SECTION 0.55' HMA / 1.45' AB + GEOGRID REINFORCEMENT / 95% CNS
2. CUT NEAT LINE
3. CROSS SLOPE PER PLAN



AADS ENTRANCE CROSS SECTION "C" LINE STA 0+25.52 (BI 11)

	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	HORIZ 0 5' 10'
DRAWN: J. WAGNER	03/19/2021			VERT 0 5' 10'
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN Y. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

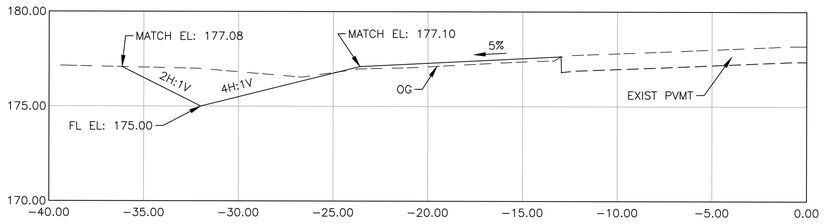
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

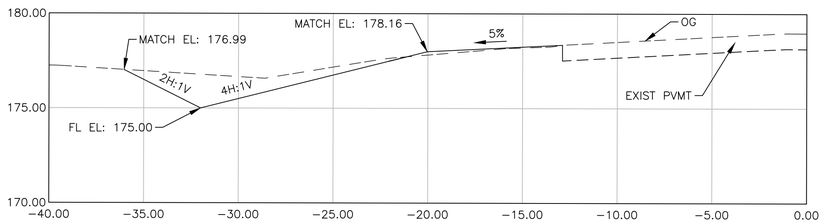
DEPARTMENT OF PUBLIC WORKS AND PLANNING

AADS ENTRANCE CROSS SECTIONS

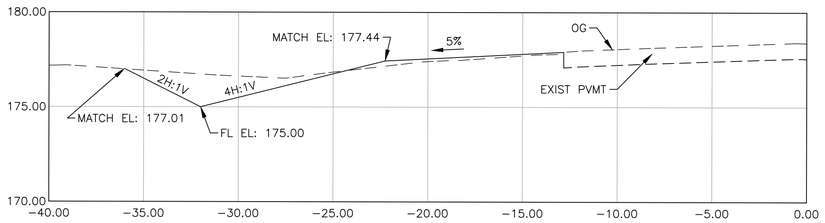
DRAWING NO. 11301 SHEET NO. 11 TOTAL 38



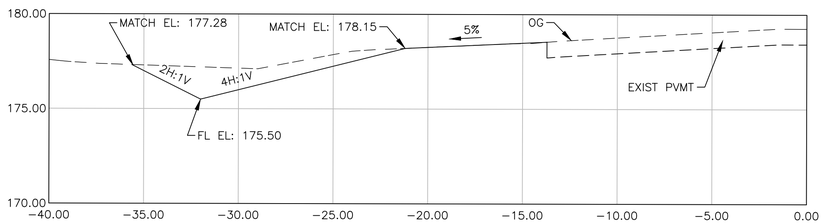
CROSS SECTION "L" LINE STA 90+00 CA 12



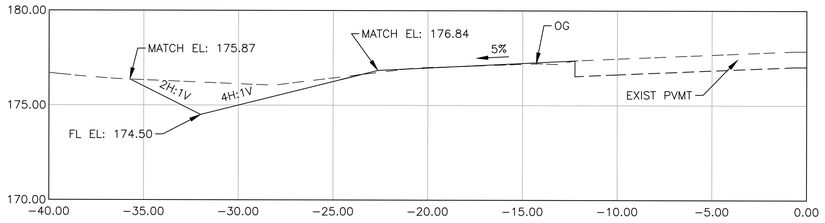
CROSS SECTION "L" LINE STA 107+00 CE 12



CROSS SECTION "L" LINE STA 97+00 CB 12



CROSS SECTION "L" LINE STA 109+00 CF 12



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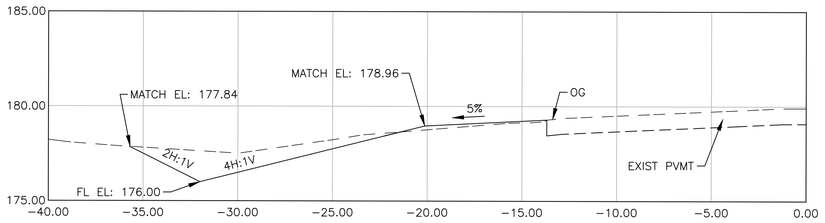
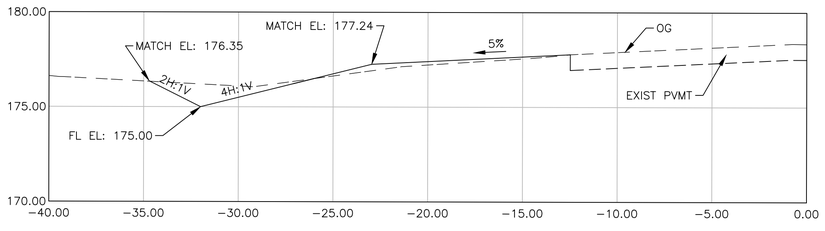
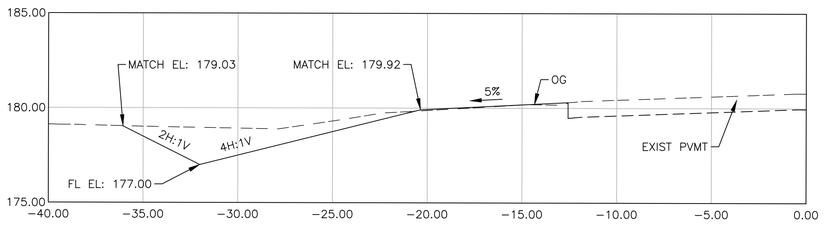


CROSS SECTION "L" LINE STA 111+00 CG 12



CROSS SECTION "L" LINE STA 105+00 CD 12



CROSS SECTION "L" LINE STA 114+00 CH 12

	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 4' 8'

VERT 0 4' 8'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

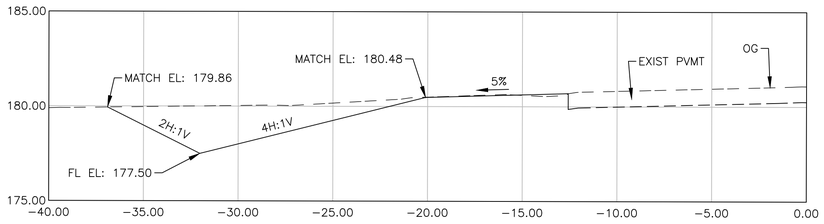
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

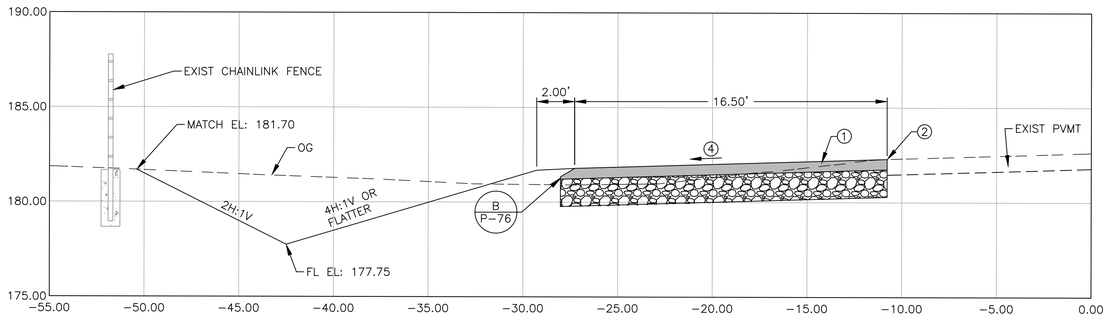
DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROADWAY DITCH SECTIONS

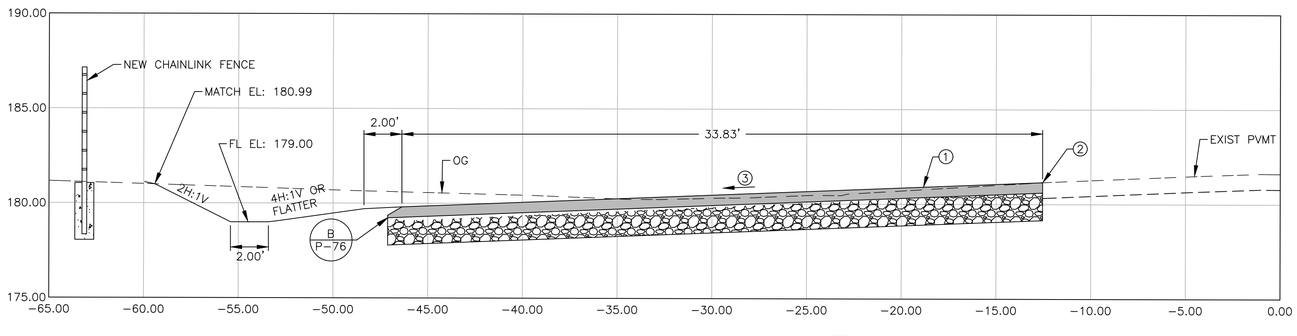
DRAWING NO. 11301 SHEET NO. 12 TOTAL 38



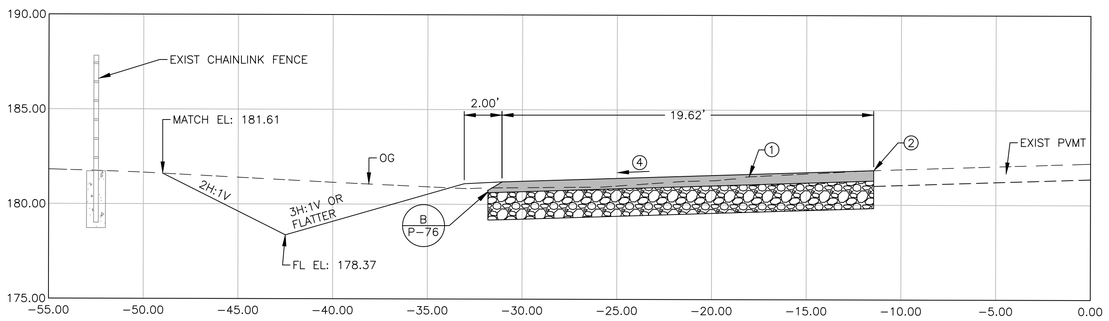
CROSS SECTION "L" LINE STA 115+25 CI 13



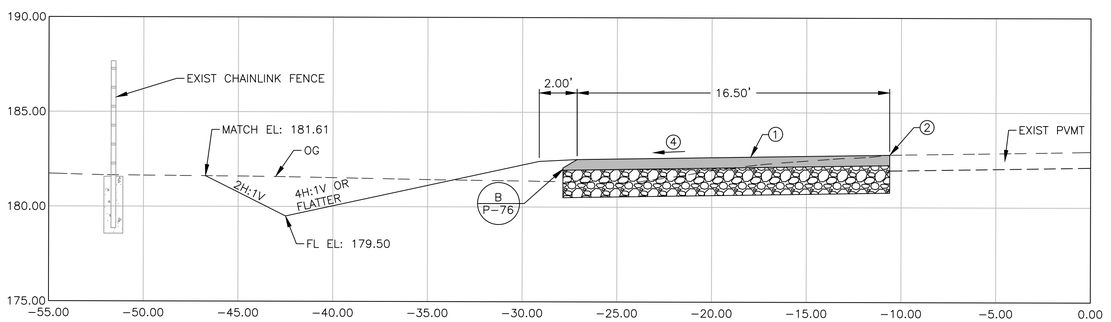
CROSS SECTION "L" LINE STA 123+00 CL 13



CROSS SECTION "L" LINE STA 118+00 CJ 13



CROSS SECTION "L" LINE STA 120+50 CK 13



CROSS SECTION "L" LINE STA 126+00 CM 13

NOTE:

1. STRUC SECTION 0.55' HMA / 1.45' AB + GEOGRID REINFORCEMENT / 95% CNS
2. CUT NEAT LINE
3. CROSS SLOPE PER PLAN
4. NEW PAVEMENT TO MATCH ROADWAY CROSS SLOPE

	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 4' 8'

VERT 0 4' 8'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

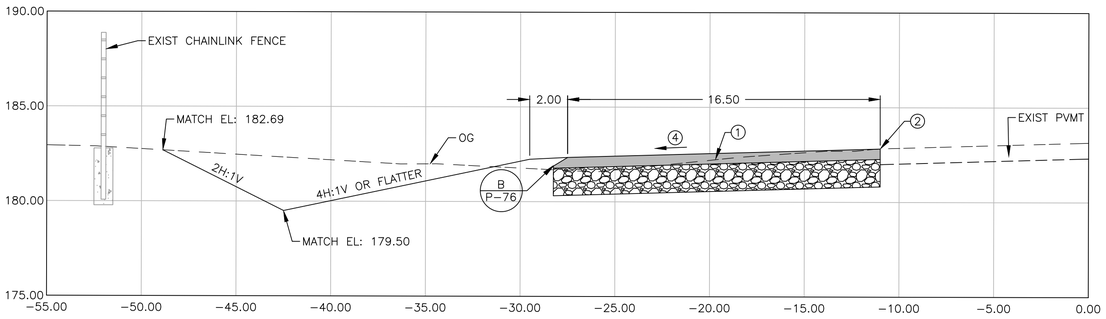
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

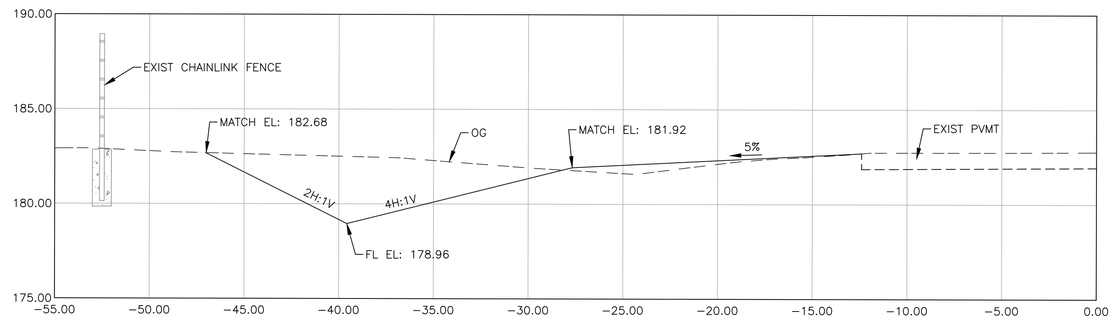
DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROADWAY DITCH SECTIONS

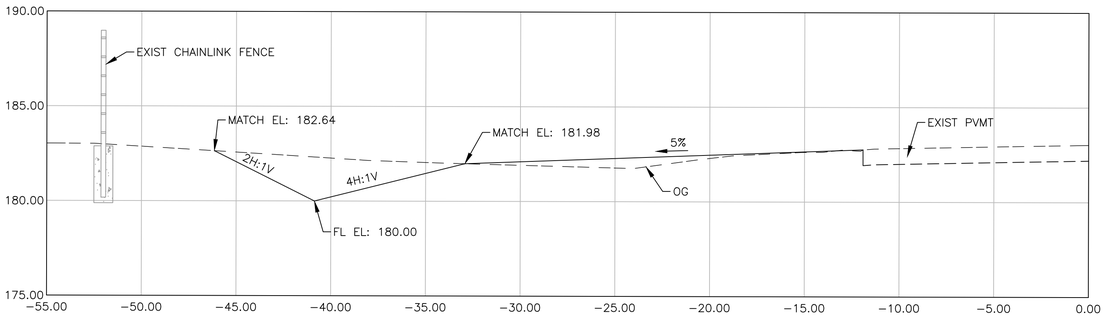
DRAWING NO. 11301 SHEET NO. 13 TOTAL 38



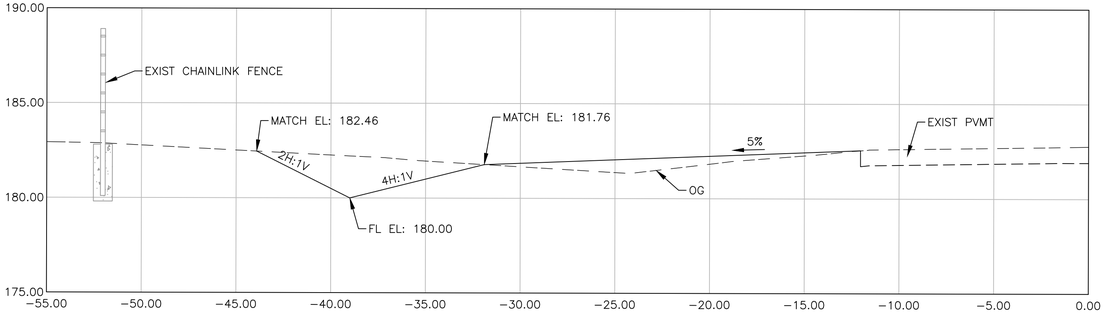
CROSS SECTION "L" LINE STA 129+50 CN 14



CROSS SECTION "L" LINE STA 140+50 CQ 14



CROSS SECTION "L" LINE STA 132+00 CO 14



CROSS SECTION "L" LINE STA 136+00 CP 14

NOTE:

1. STRUC SECTION 0.55' HMA / 1.45' AB + GEOGRID REINFORCEMENT / 95% CNS
2. CUT NEAT LINE
3. CROSS SLOPE PER PLAN
4. NEW PAVEMENT TO MATCH ROADWAY CROSS SLOPE

	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 4' 8'

VERT 0 4' 8'

SUPERVISING ENGINEER

3/29/2021
DATE

REGISTERED PROFESSIONAL ENGINEER
SEBASTIAN Y. ARTAL
No. C76724
Exp.12/31/20
CIVIL
STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

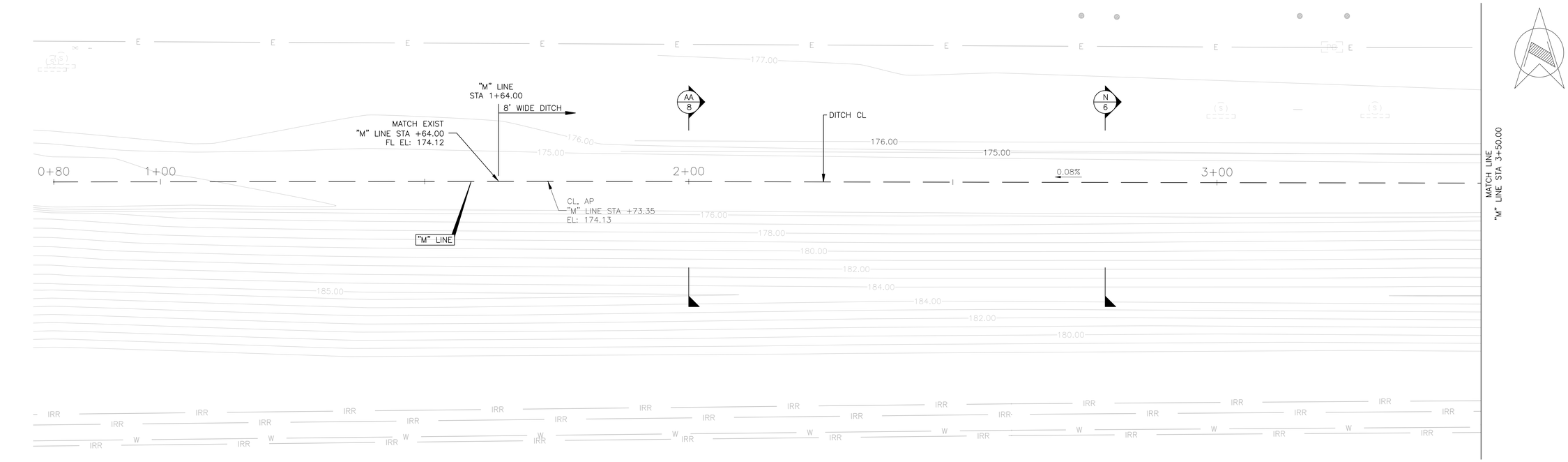
ROAD NO. S0500 BRIDGE NO. N/A

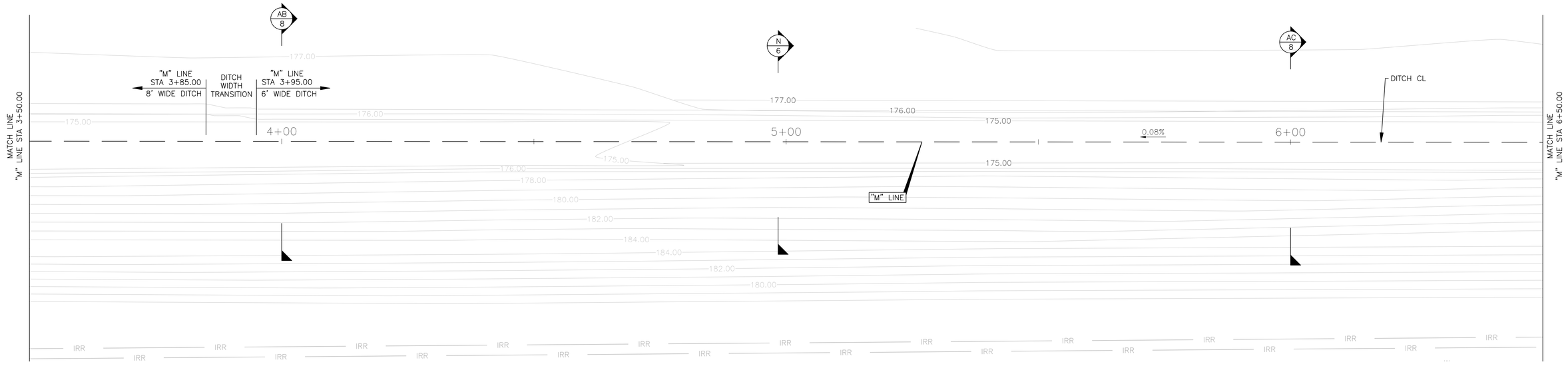
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROADWAY DITCH SECTIONS

DRAWING NO. 11301 SHEET NO. 14 TOTAL 38





	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	HORIZ 0 10' 20'
DRAWN: J. WAGNER	03/19/2021			VERT 0 1' 2'
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER
SEBASTIAN T. ARTAL
No. C76724
Exp.12/31/20
CIVIL
STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

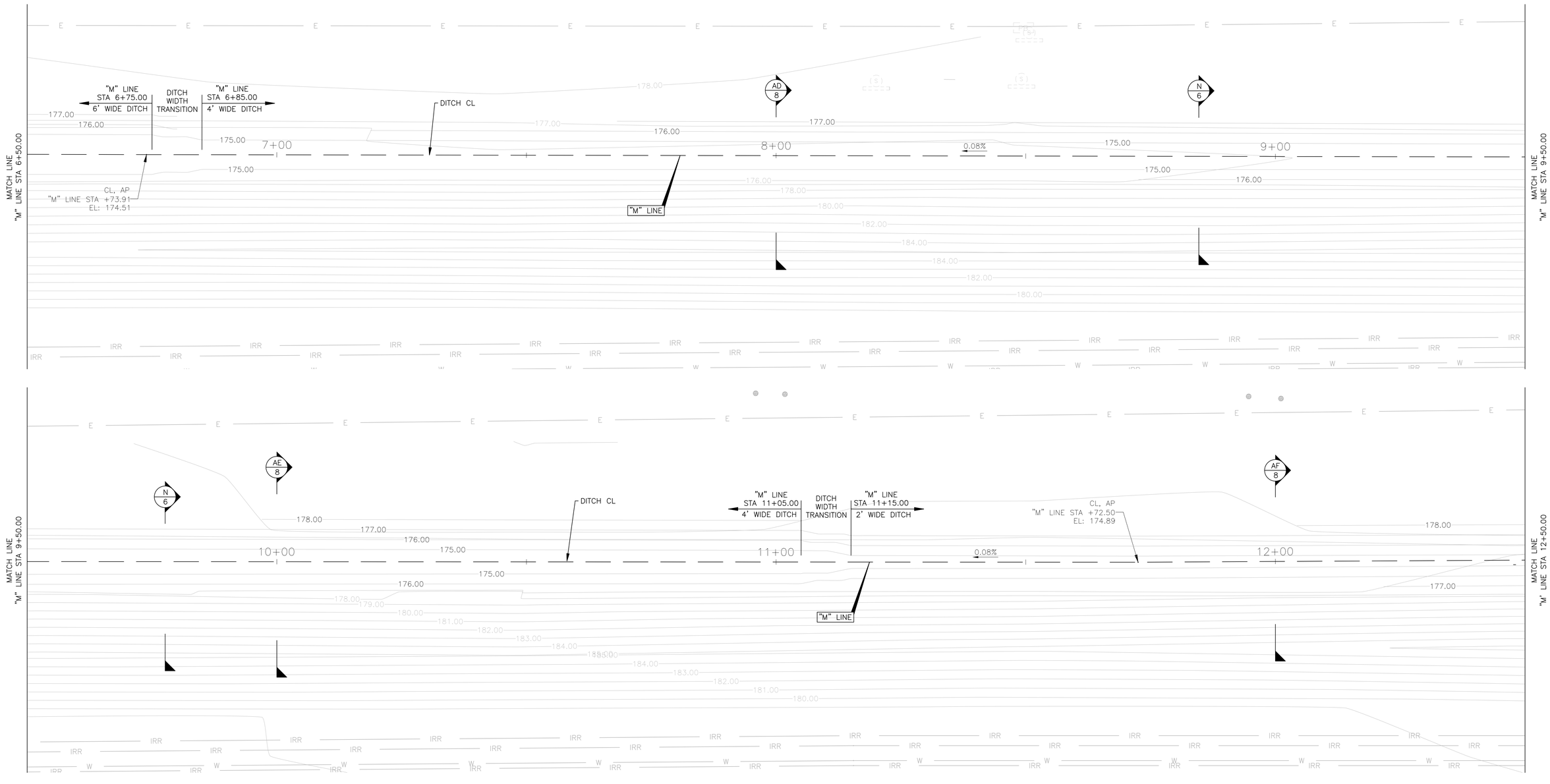
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

AADS DITCH GRADING PLAN - OUTLET

DRAWING NO. 11301 SHEET NO. 15 TOTAL 38



	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	HORIZ 0 10' 20'
DRAWN: J. WAGNER	03/19/2021			VERT 0 1' 2'
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

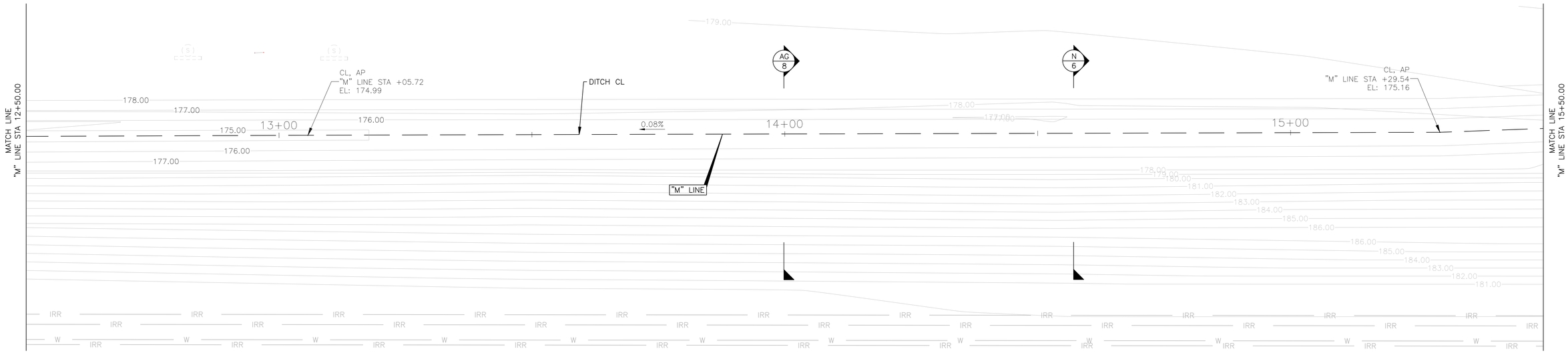
ROAD NO. S0500 BRIDGE NO. N/A

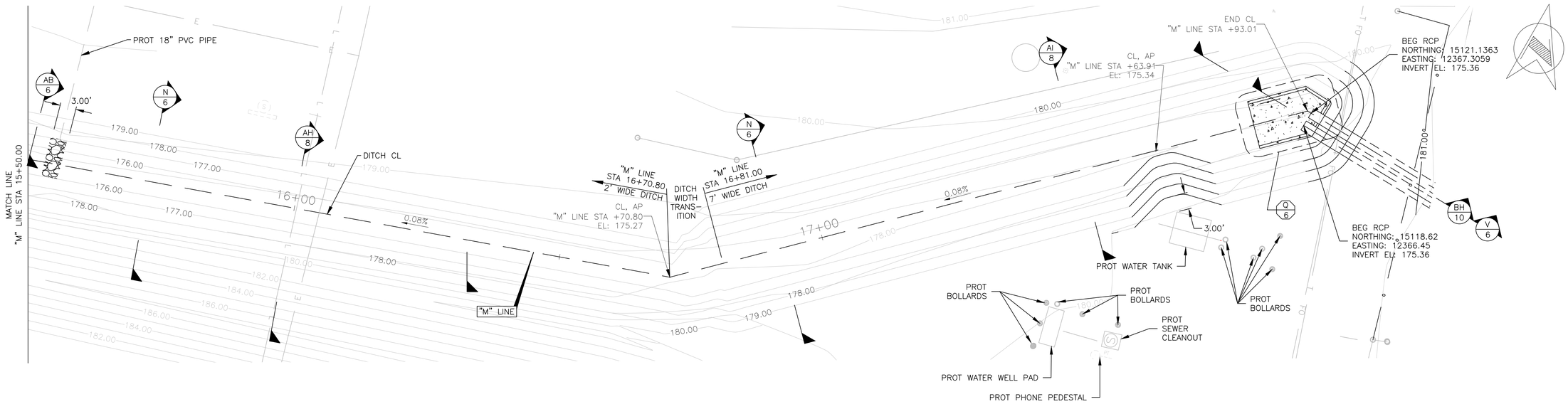
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

AADS DITCH GRADING PLAN - OUTLET

DRAWING NO. 11301 SHEET NO. 16 TOTAL 38





	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	HORIZ 0 10' 20'
DRAWN: J. WAGNER	03/19/2021			VERT 0 1' 2'
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER
SEBASTIAN T. ARTAL
No. C76724
Exp.12/31/20
CIVIL
STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

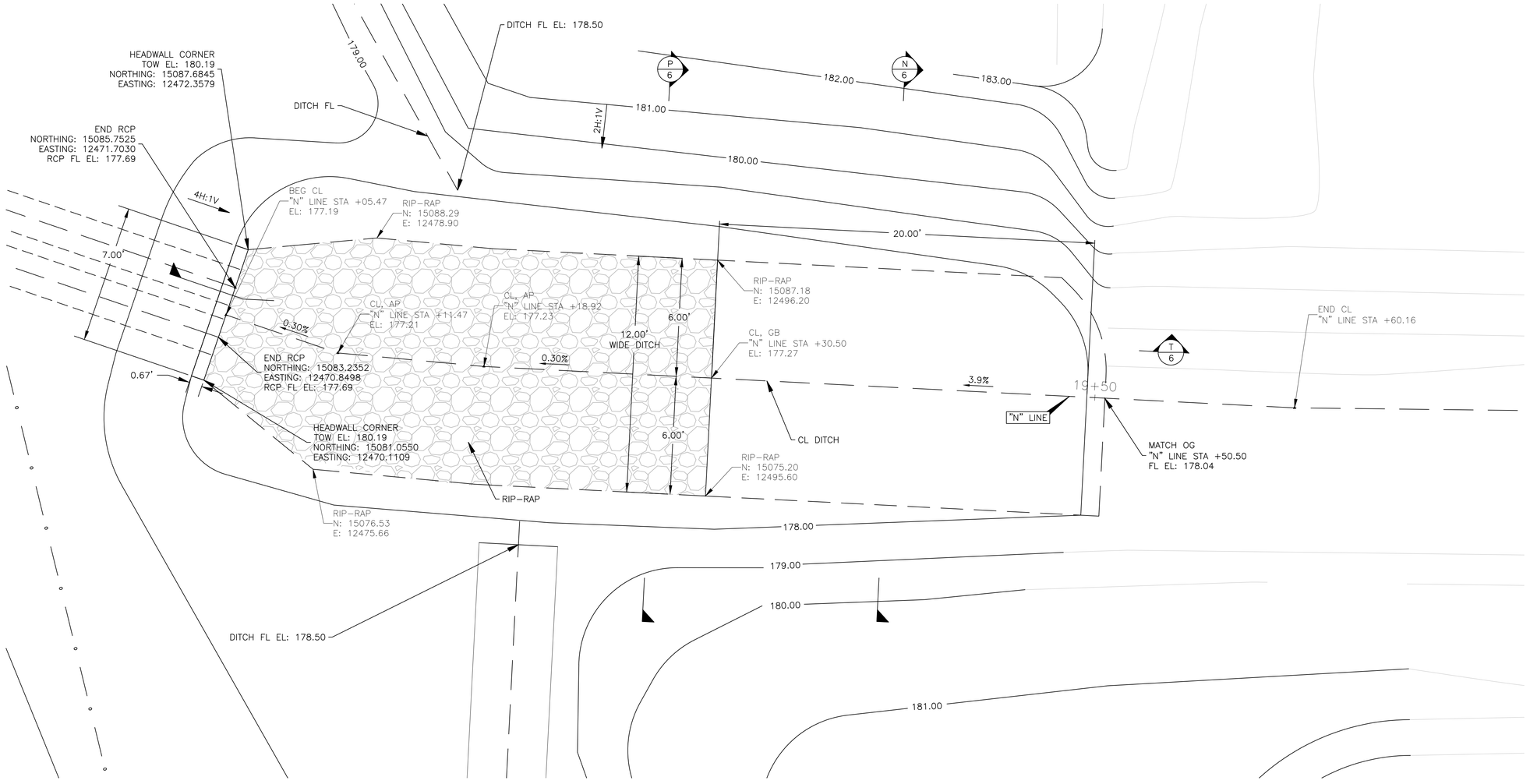
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

AADS DITCH GRADING PLAN - OUTLET

DRAWING NO. 11301 SHEET NO. 17 TOTAL 38



	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 3' 6'

VERT 0 1' 2'

SUPERVISING ENGINEER

3/29/2021
DATE

REGISTERED PROFESSIONAL ENGINEER
SEBASTIAN T. ARTAL
No. C76724
Exp.12/31/20
CIVIL
STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

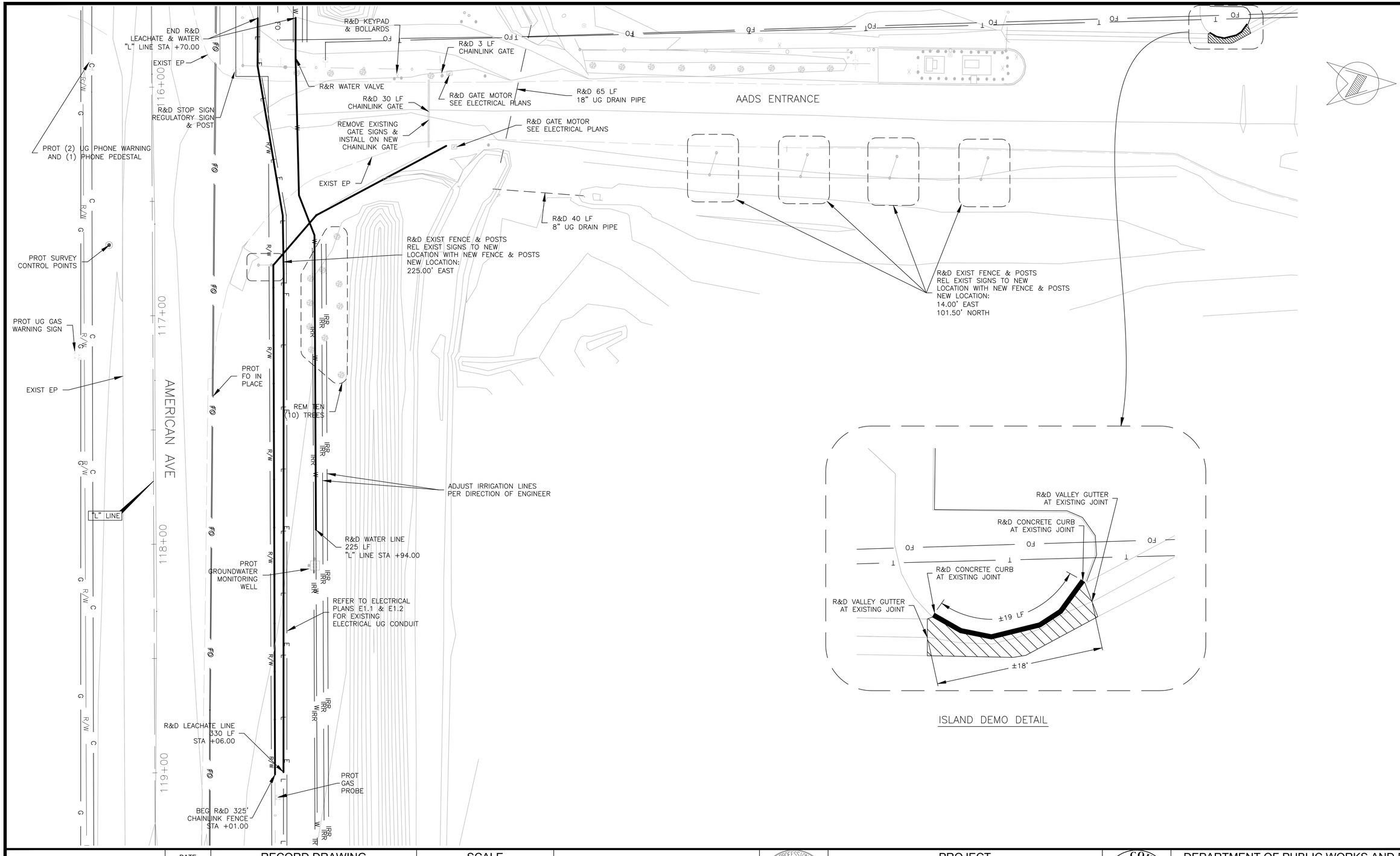
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

AADS DITCH GRADING PLAN - INLET

DRAWING NO. 11301 SHEET NO. 18 TOTAL 38



ISLAND DEMO DETAIL

	DATE
DESIGNED: J.WAGNER	03/19/2021
DRAWN: J. WAGNER	03/19/2021
CHECKED: S. ARTAL	03/19/2021

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

RECORD DRAWING

RESIDENT ENGINEER	DATE

SCALE

HORIZ 0 20' 40'

VERT 0 1' 2'

3/29/2021

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

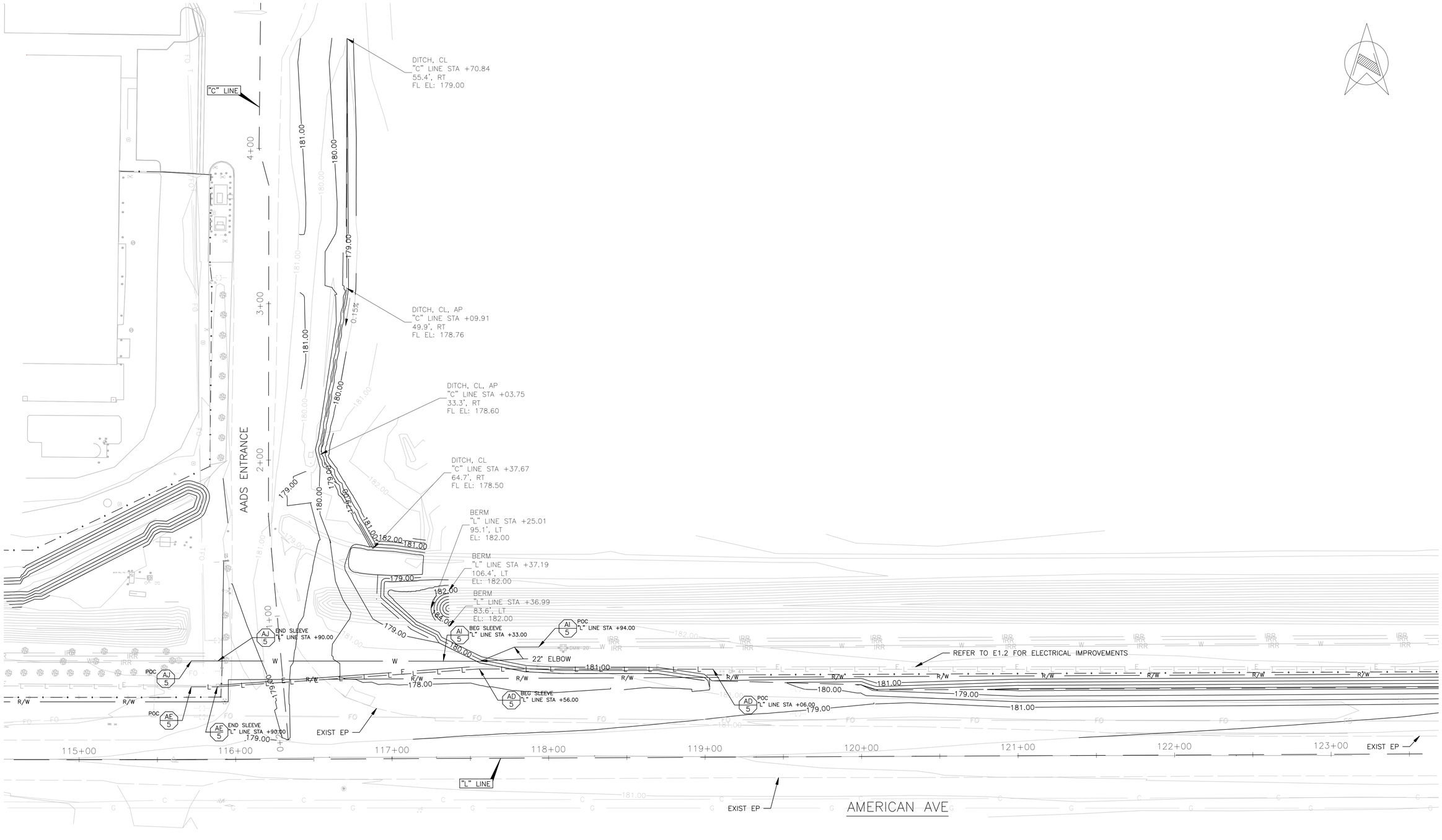
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DEMOLITION PLAN

DRAWING NO. 11301 SHEET NO. 19 TOTAL 38



	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 30' 60'

VERT 0 1' 2'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

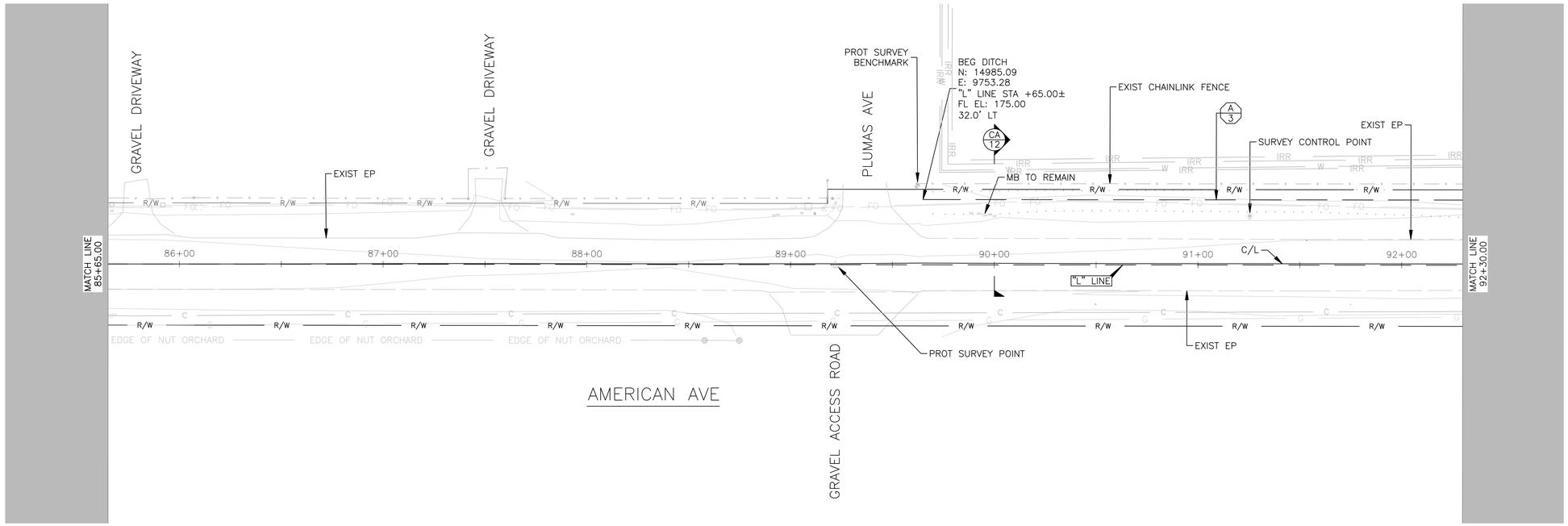
ROAD NO. S0500 BRIDGE NO. N/A

COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

AMERICAN AVE ENTRANCE GRADING & UTILITIES PLAN

DRAWING NO. 11301 SHEET NO. 20 TOTAL 38



	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 30' 60'

VERT 0 1' 2'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN Y. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

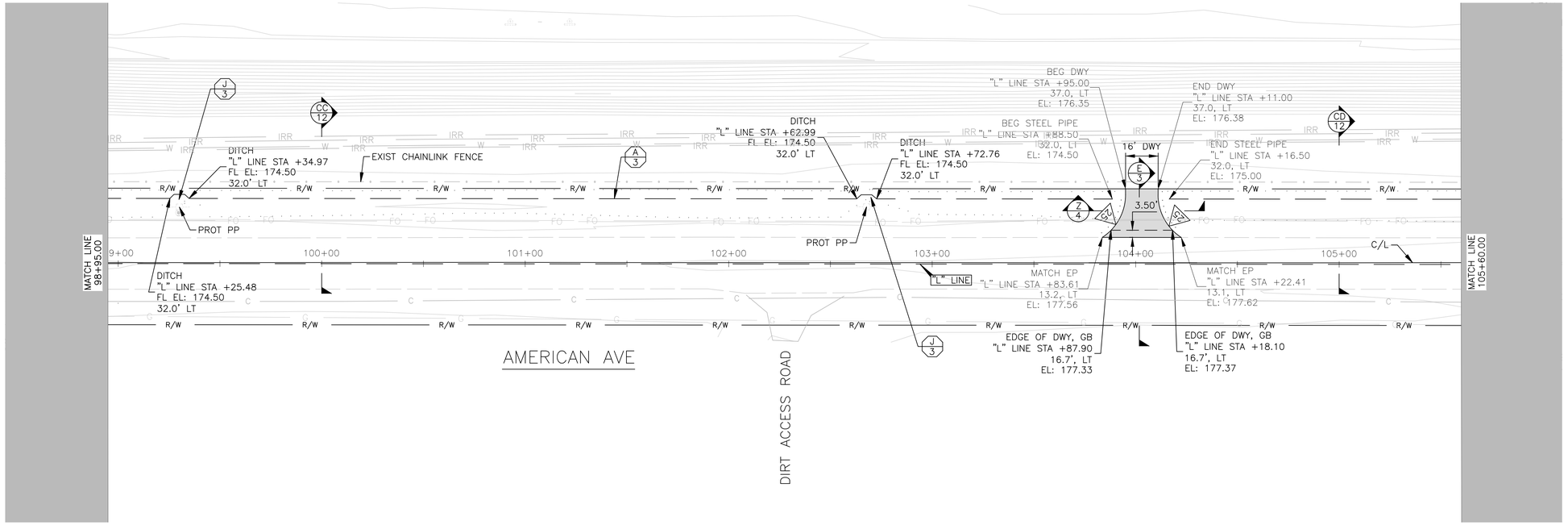
ROAD NO. S0500 BRIDGE NO. N/A

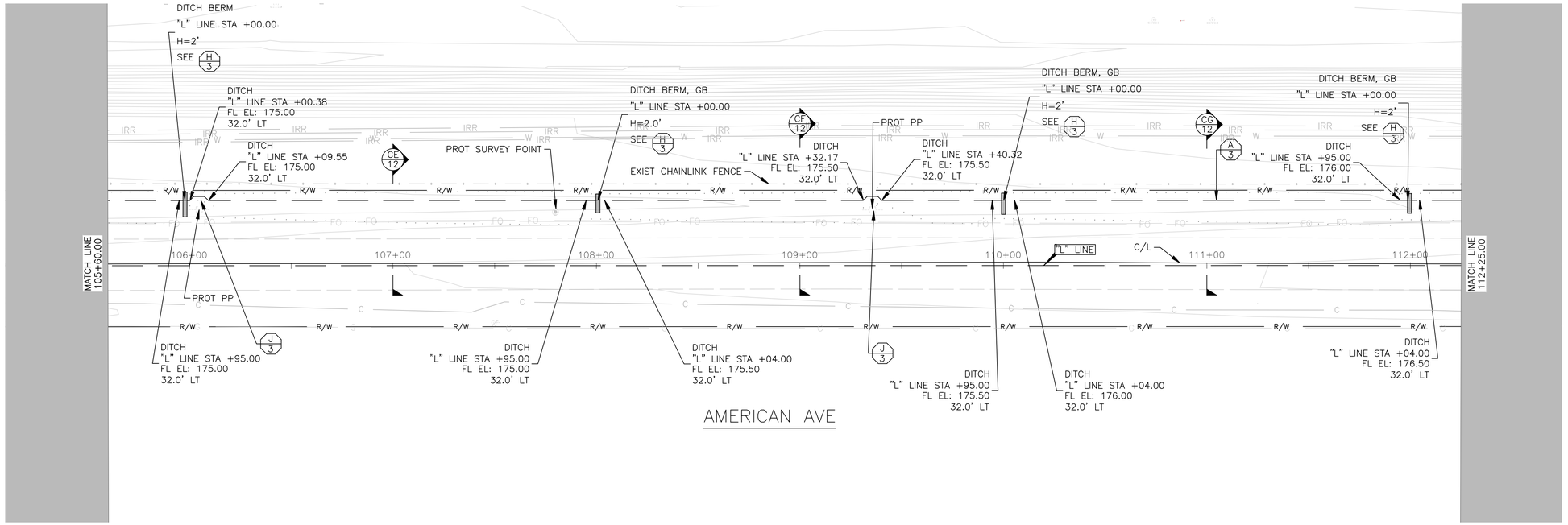
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROADWAY IMPROVEMENTS

DRAWING NO. 11301 SHEET NO. 21 TOTAL 38





	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 30' 60'

VERT 0 1' 2'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

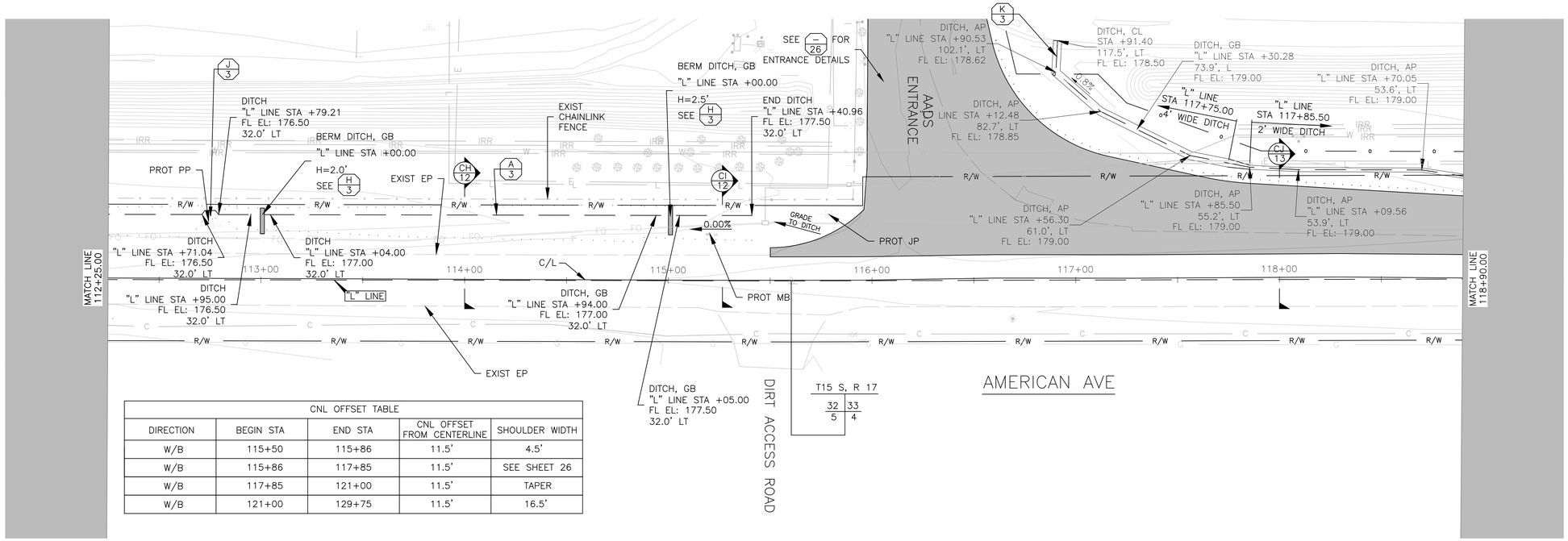
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

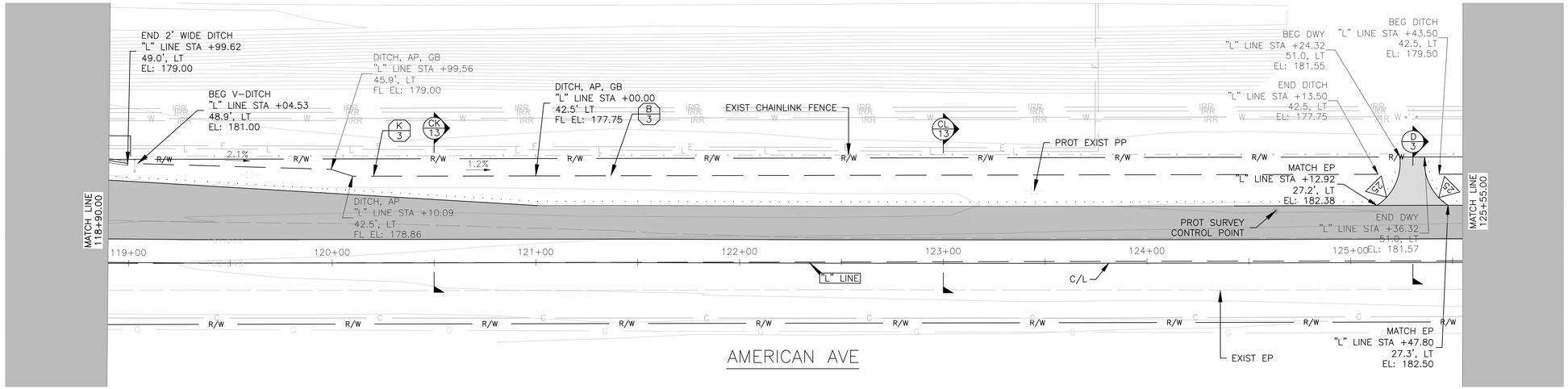
DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROADWAY IMPROVEMENTS

DRAWING NO. 11301 SHEET NO. 22 TOTAL 38



CNL OFFSET TABLE				
DIRECTION	BEGIN STA	END STA	CNL OFFSET FROM CENTERLINE	SHOULDER WIDTH
W/B	115+50	115+86	11.5'	4.5'
W/B	115+86	117+85	11.5'	SEE SHEET 26
W/B	117+85	121+00	11.5'	TAPER
W/B	121+00	129+75	11.5'	16.5'



	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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SCALE

HORIZ 0 30' 60'

VERT 0 1' 2'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

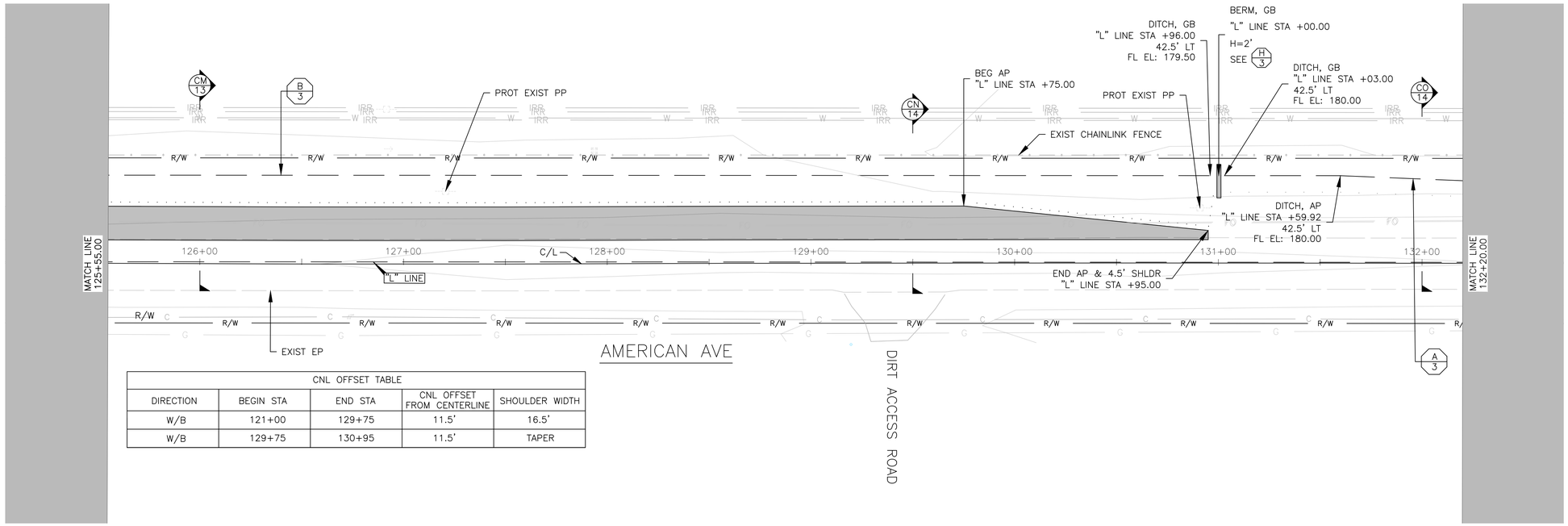
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

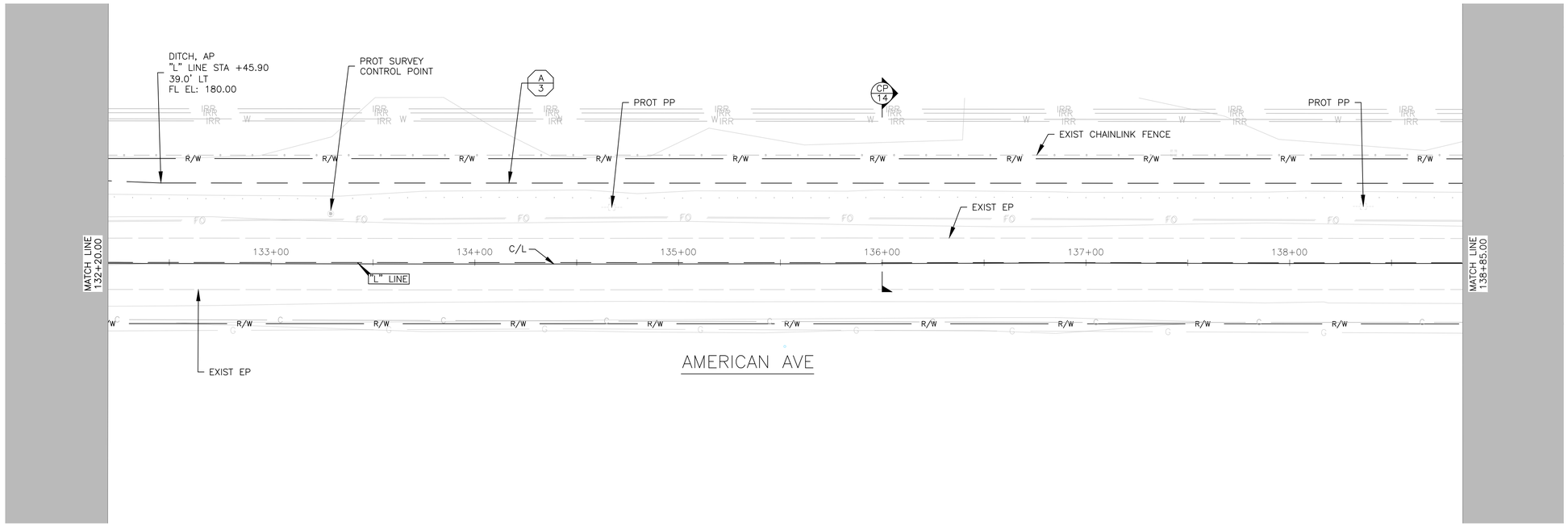
DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROADWAY IMPROVEMENTS

DRAWING NO. 11301 SHEET NO. 23 TOTAL 38



CNL OFFSET TABLE				
DIRECTION	BEGIN STA	END STA	CNL OFFSET FROM CENTERLINE	SHOULDER WIDTH
W/B	121+00	129+75	11.5'	16.5'
W/B	129+75	130+95	11.5'	TAPER



	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 30' 60'

VERT 0 1' 2'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

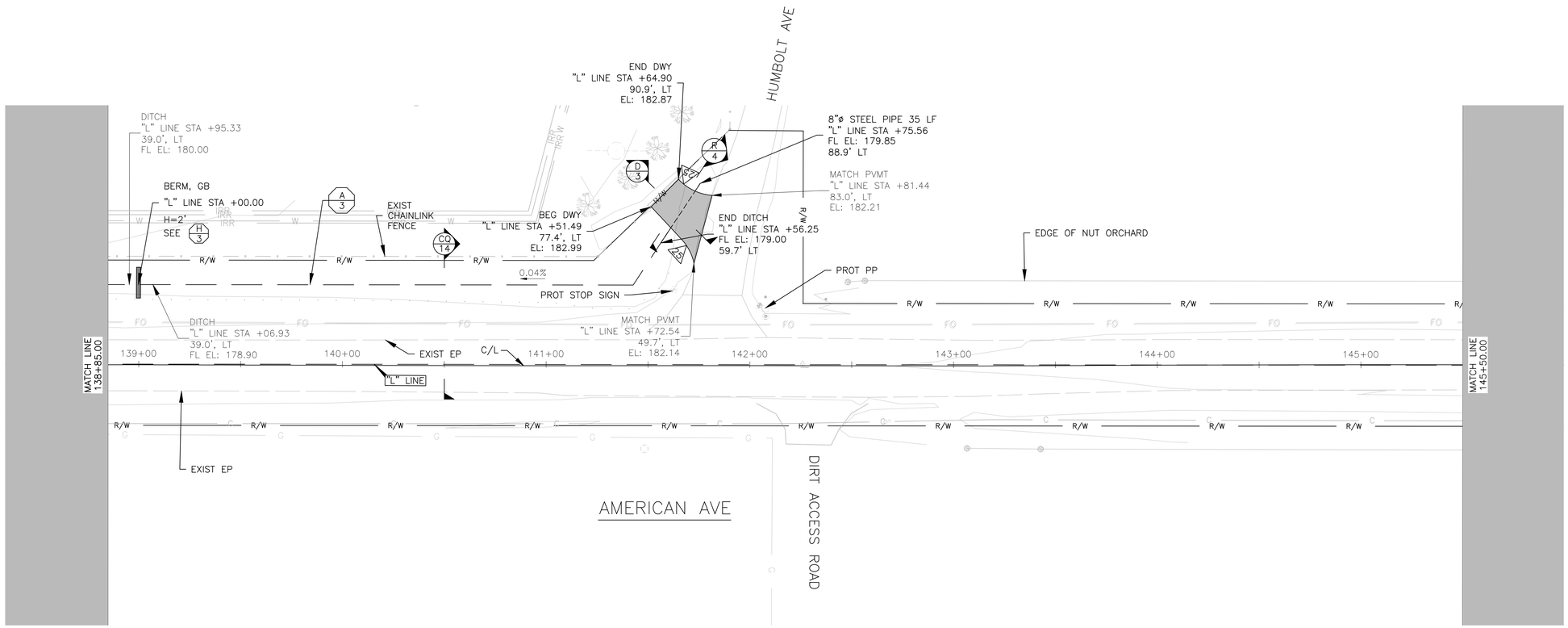
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROADWAY IMPROVEMENTS

DRAWING NO. 11301 SHEET NO. 24 TOTAL 38



	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 30' 60'

VERT 0 1' 2'

SUPERVISING ENGINEER

3/29/2021
DATE

REGISTERED PROFESSIONAL ENGINEER
SEBASTIAN T. ARTAL
No. C76724
Exp.12/31/20
CIVIL
STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

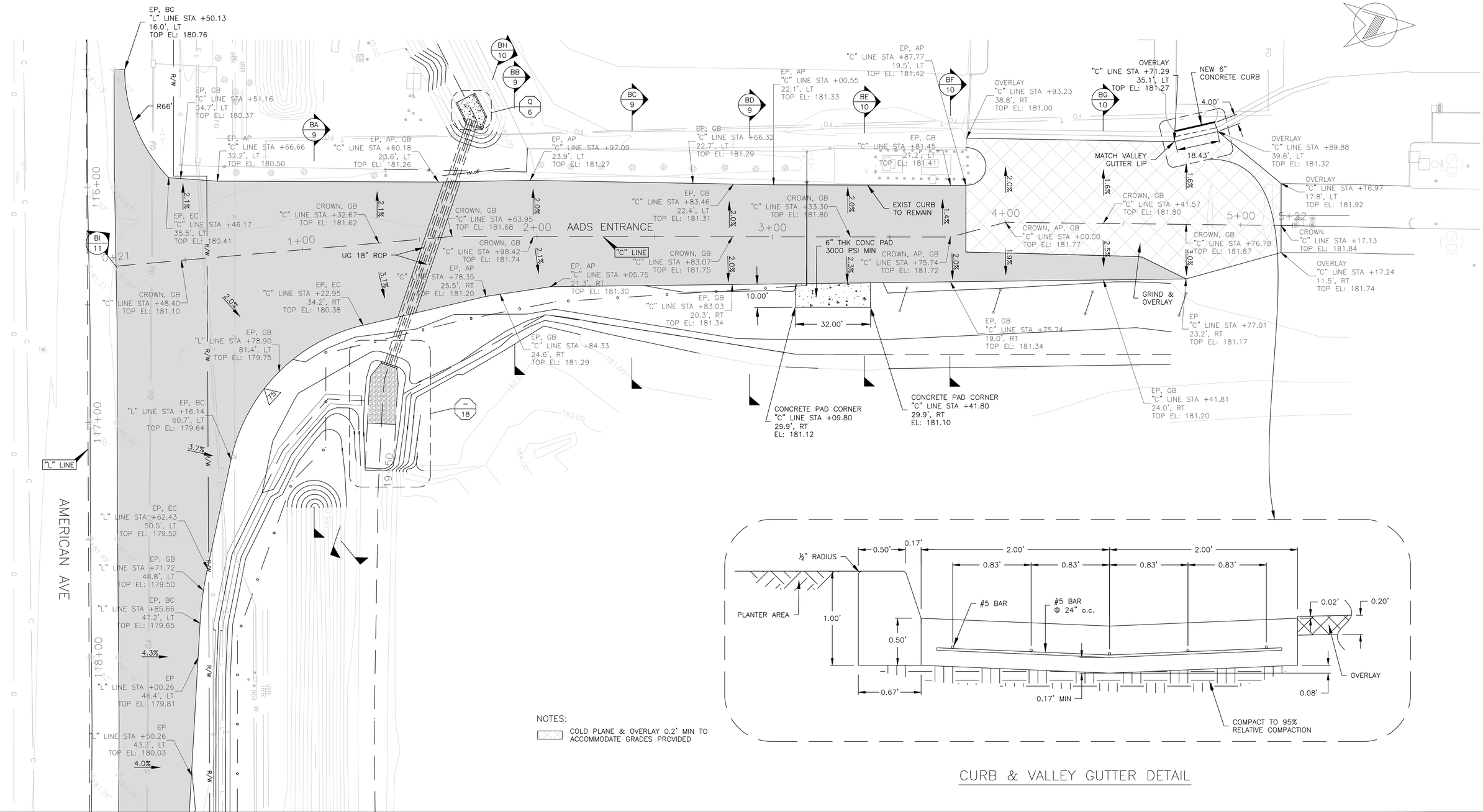
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROADWAY IMPROVEMENTS

DRAWING NO. 11301 SHEET NO. 25 TOTAL 38



NOTES:

COLD PLANE & OVERLAY 0.2' MIN TO ACCOMMODATE GRADES PROVIDED

CURB & VALLEY GUTTER DETAIL

	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	HORIZ 0 20' 40'
DRAWN: J. WAGNER	03/19/2021			VERT 0 1' 2'
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER
SEBASTIAN T ARTAL
No. C76724
Exp.12/31/20
CIVIL
STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

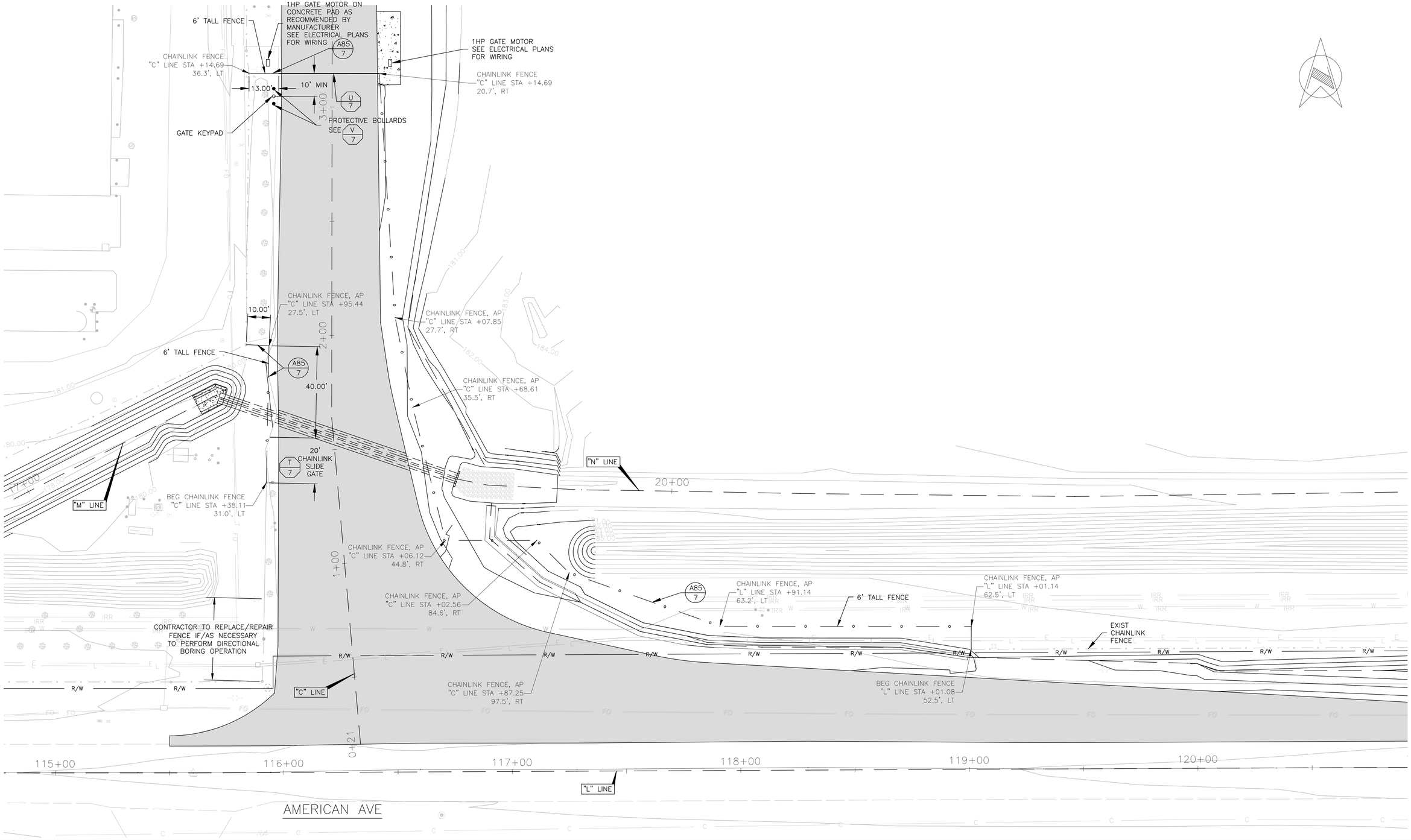
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

LANDFILL ENTRANCE PLAN

DRAWING NO. 11301 SHEET NO. 26 TOTAL 38



	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 20' 40'

VERT 0 1' 2'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

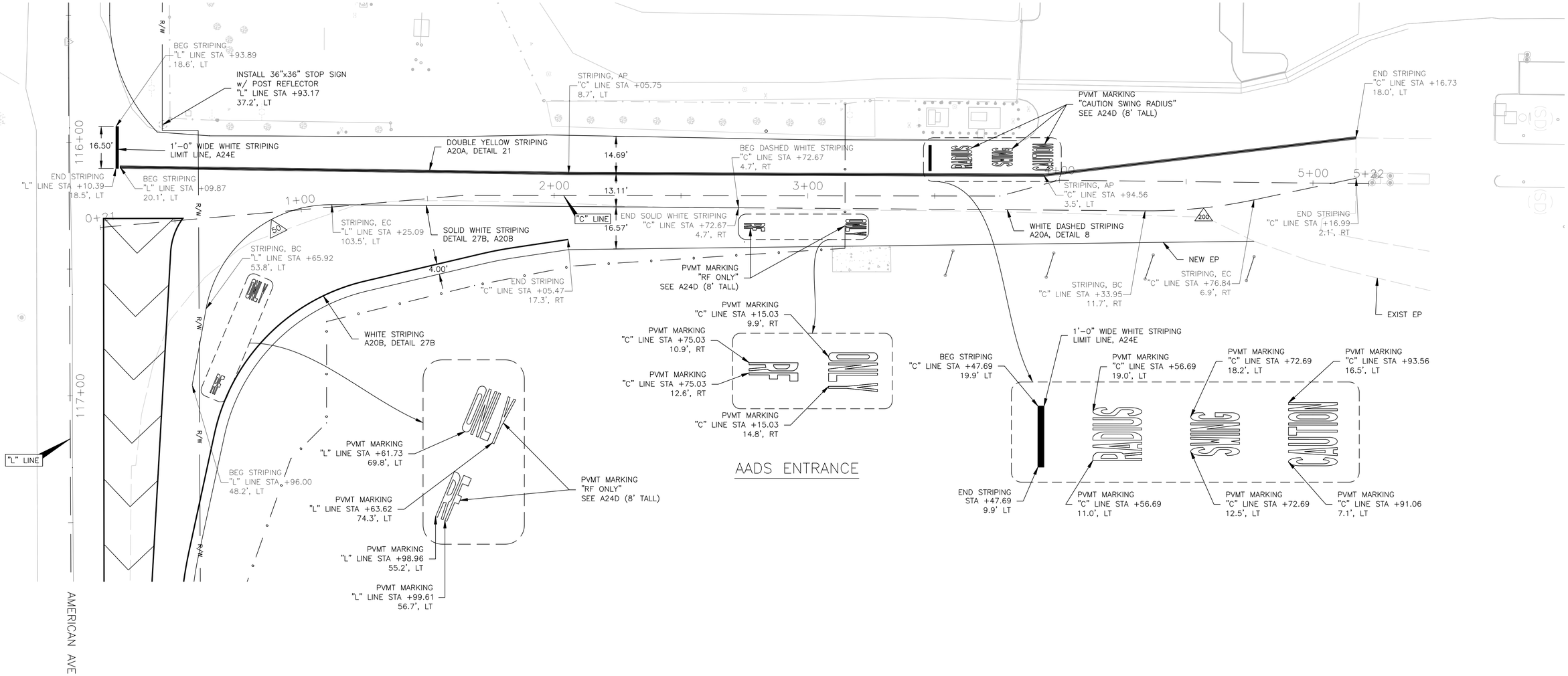
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

AADS FENCING PLAN

DRAWING NO. 11301 SHEET NO. 27 TOTAL 38



	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 20' 40'

VERT 0 1' 2'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

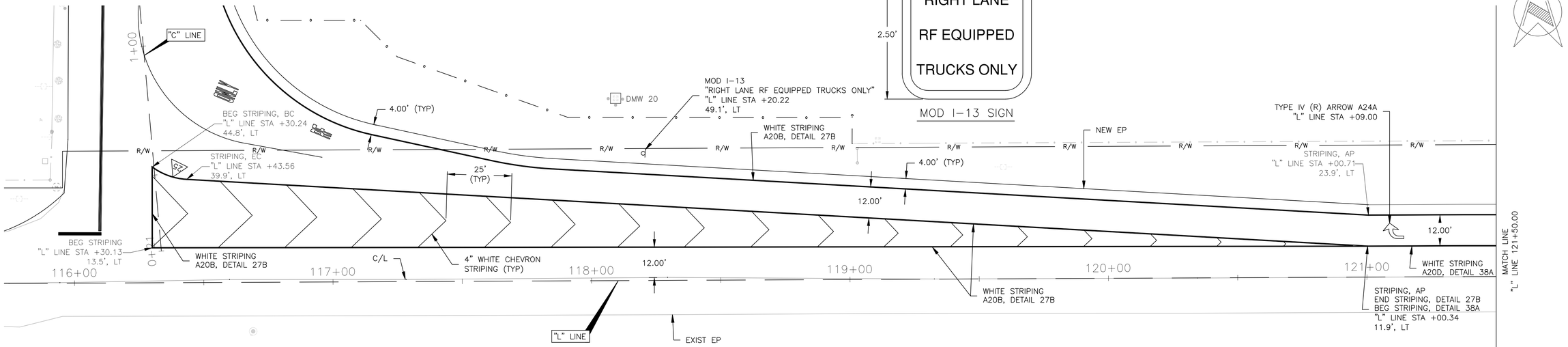
ROAD NO. S0500 BRIDGE NO. N/A

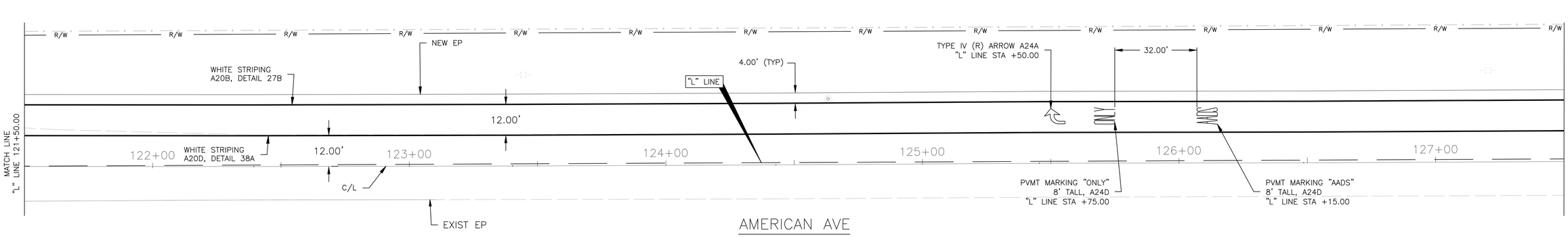
THE COUNTY OF FRESNO

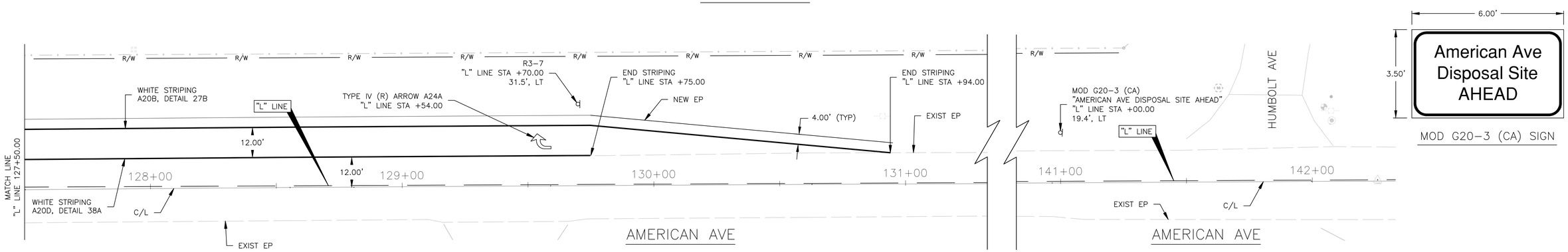
DEPARTMENT OF PUBLIC WORKS AND PLANNING

AADS ENTRANCE STRIPING PLAN

DRAWING NO. 11301 SHEET NO. 28 TOTAL 38







	DATE	RECORD DRAWING		SCALE
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE	HORIZ 0 20' 40'
DRAWN: J. WAGNER	03/19/2021			VERT 0 1' 2'
CHECKED: S. ARTAL	03/19/2021			

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

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER
SEBASTIAN T. ARTAL
No. C76724
Exp.12/31/20
CIVIL
STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

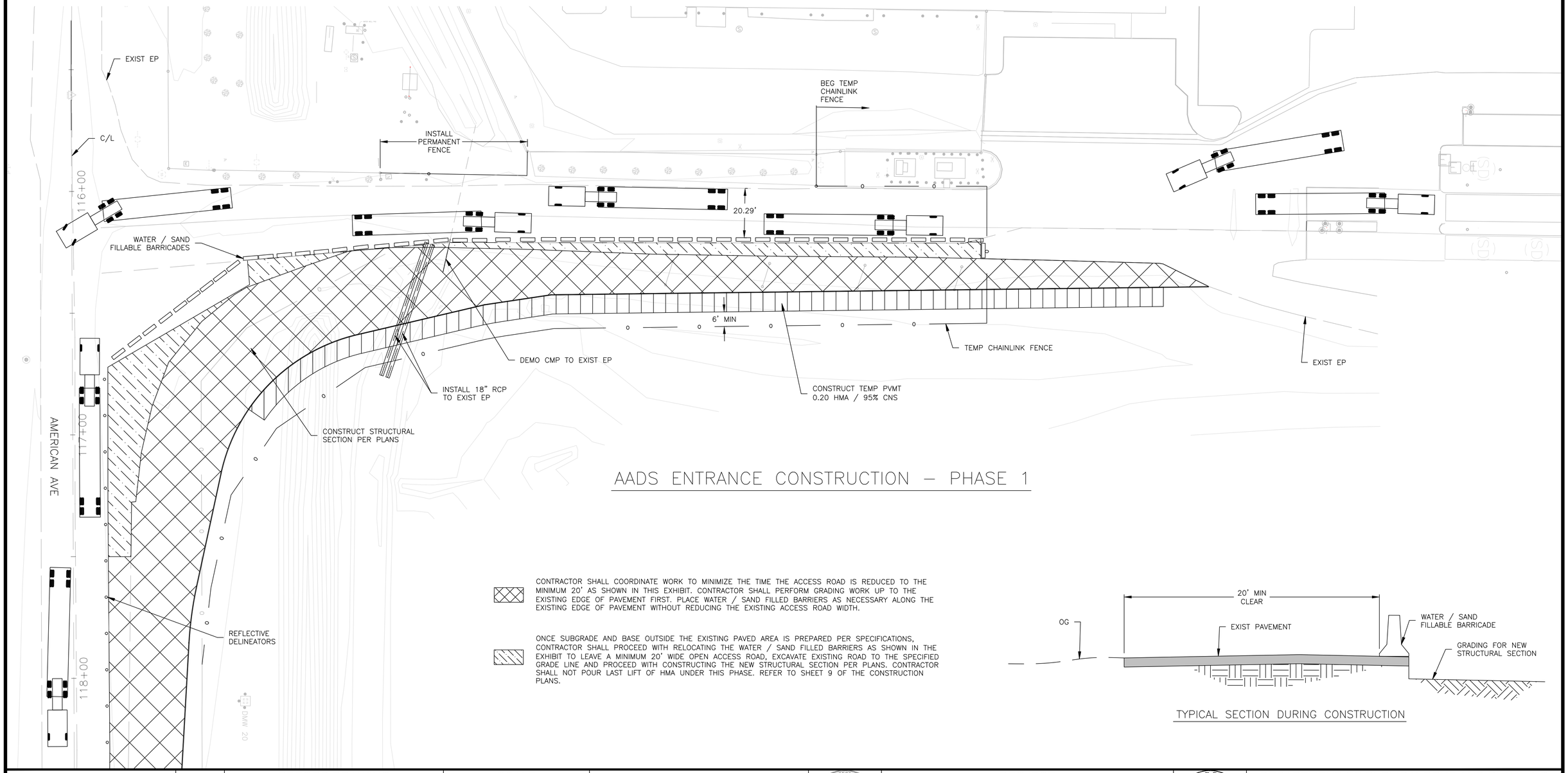
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROADWAY STRIPING PLAN

DRAWING NO. 11301 SHEET NO. 29 TOTAL 38



AADS ENTRANCE CONSTRUCTION – PHASE 1

CONTRACTOR SHALL COORDINATE WORK TO MINIMIZE THE TIME THE ACCESS ROAD IS REDUCED TO THE MINIMUM 20' AS SHOWN IN THIS EXHIBIT. CONTRACTOR SHALL PERFORM GRADING WORK UP TO THE EXISTING EDGE OF PAVEMENT FIRST. PLACE WATER / SAND FILLED BARRIERS AS NECESSARY ALONG THE EXISTING EDGE OF PAVEMENT WITHOUT REDUCING THE EXISTING ACCESS ROAD WIDTH.

ONCE SUBGRADE AND BASE OUTSIDE THE EXISTING PAVED AREA IS PREPARED PER SPECIFICATIONS, CONTRACTOR SHALL PROCEED WITH RELOCATING THE WATER / SAND FILLED BARRIERS AS SHOWN IN THE EXHIBIT TO LEAVE A MINIMUM 20' WIDE OPEN ACCESS ROAD, EXCAVATE EXISTING ROAD TO THE SPECIFIED GRADE LINE AND PROCEED WITH CONSTRUCTING THE NEW STRUCTURAL SECTION PER PLANS. CONTRACTOR SHALL NOT POUR LAST LIFT OF HMA UNDER THIS PHASE. REFER TO SHEET 9 OF THE CONSTRUCTION PLANS.

TYPICAL SECTION DURING CONSTRUCTION

	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 20' 40'

VERT 0 1' 2'

SUPERVISING ENGINEER — 3/29/2021 DATE

REGISTERED PROFESSIONAL ENGINEER SEBASTIAN T. ARTAL No. C76724 Exp.12/31/20 CIVIL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

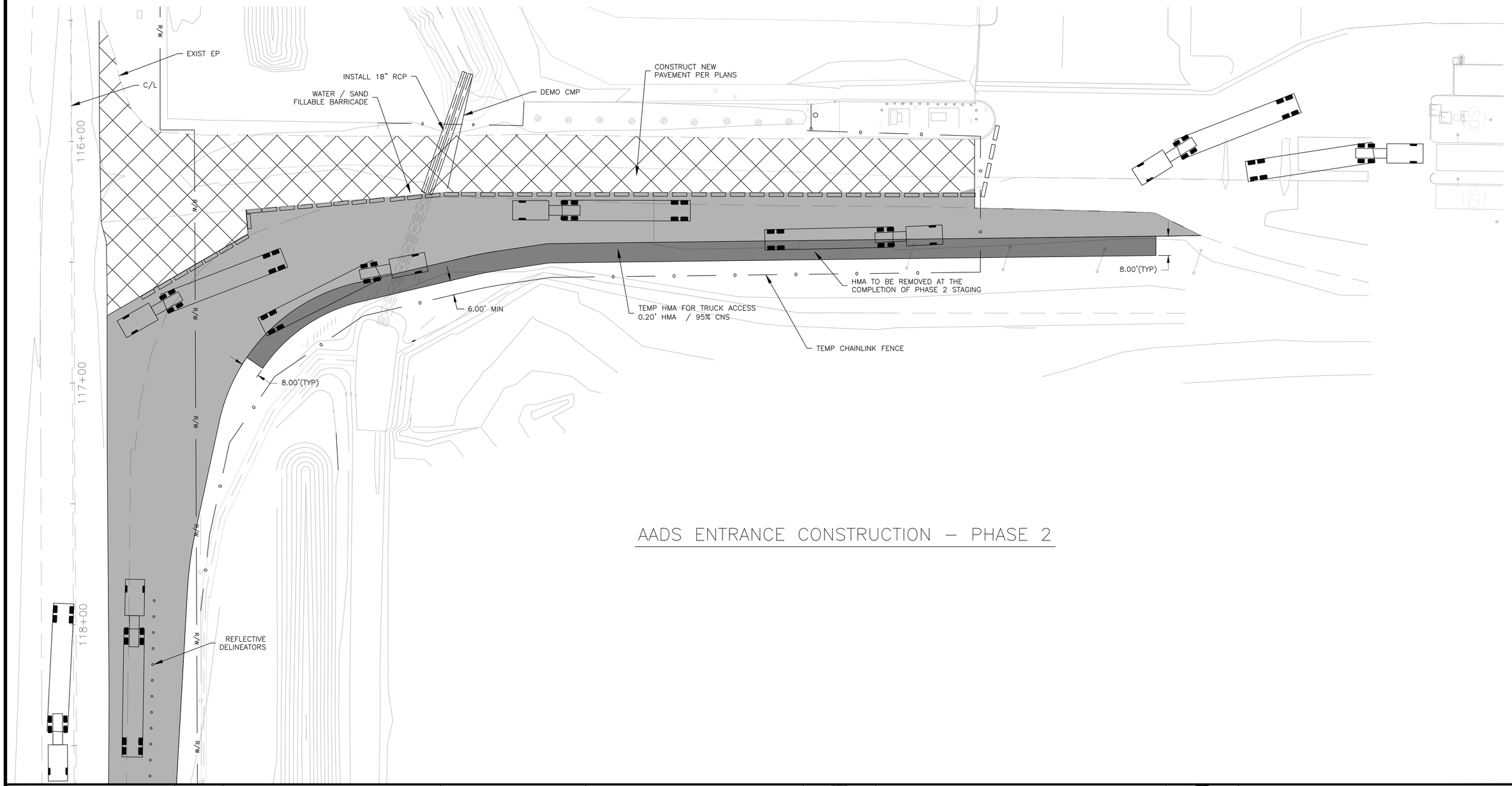
ROAD NO. S0500 BRIDGE NO. N/A

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION PHASING PLAN

DRAWING NO. 11301 SHEET NO. 30 TOTAL 38



AADS ENTRANCE CONSTRUCTION – PHASE 2

	DATE	RECORD DRAWING	
DESIGNED: J.WAGNER	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN: J. WAGNER	03/19/2021		
CHECKED: S. ARTAL	03/19/2021		

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

SCALE

HORIZ 0 20' 40'

VERT 0 1' 2'

SUPERVISING ENGINEER

3/29/2021
DATE

REGISTERED PROFESSIONAL ENGINEER
SEBASTIAN T. ARTAL
No. C76724
Exp.12/31/20
CIVIL
STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE ENTRANCE IMPROVEMENTS

ROAD NO. S0500 BRIDGE NO. N/A

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION PHASING PLAN

DRAWING NO. 11301 SHEET NO. 31 TOTAL 38

SYMBOLS AND LEGEND

———————	=	CONDUIT, EXPOSED; OR CONCEALED IN WALL OR CEILING
—— ——— ——	=	CONDUIT, UNDERGROUND
—— · ——— · ——	=	CONDUIT, EXISTING
——— – – ———	=	GROUND WIRE
▭	=	PANEL
X	=	POINT OF INTERCEPTION
AFF	=	ABOVE FINISH FLOOR
AFG	=	ABOVE FINISHED GRADE
CKT	=	CIRCUIT
DIA	=	DIAMETER
FBO	=	FURNISHED BY OR OTHERS
GFI	=	GROUND FAULT INTERRUPTER ON OUTLET OR CIRCUIT
IEC	=	INSTALLED BY ELECTRICAL CONTRACTOR
MAX	=	MAXIMUM
MIN	=	MINIMUM
PB	=	PULLBOX
MH	=	MANHOLE
N/O	=	NORMALLY OPEN CONTACT
N/C	=	NORMALLY CLOSED CONTACT
QTY	=	QUANTITY
WP	=	INDICATES WEATHERPROOF DEVICE
WPIUC	=	WEATHERPROOF WITH IN USE COVER
U.O.N.	=	UNLESS OTHERWISE NOTED
(N)	=	NEW
(E)	=	EXISTING
(EM)	=	EMERGENCY
(R)	=	EXISTING TO BE REMOVED

IN GENERAL - DASHED SYMBOLS DENOTE EXISTING

SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

BASIC ELECTRICAL SCOPE OF WORK

AMERICAN AVE DISPOSAL SITE ENTRANCE GATE CONNECTION AND CONDUIT RELOCATION.

LOCATION:
18950 W AMERICAN AVE
KERMAN CA 93630

ELECTRICAL SHEET INDEX

E0.1	LEGEND AND SHEET INDEX
E1.2	DEMO SITE PLAN
E1.2	NEW SITE PLAN
E2.1	ORIGINAL CONSTRUCTION PLANS
E2.2	ORIGINAL CONSTRUCTION PLANS
E2.3	ORIGINAL CONSTRUCTION PLANS
E2.4	ORIGINAL CONSTRUCTION PLANS

JOE PREVENDAR P.E. CA EE 16581 joe@epsfresno.com
GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: FC1740.05 | DATE: SEP 2020
FILE: FCPW17040_05 E0_1 LEGEND
PLOT: 9/11/2020 10:50 AM / 0.3869:1
DSGN: VCM | DRWN: WCH

ELECTRICAL POWER SYSTEMS INC.
PROFESSIONAL AND CONSULTING ELECTRICAL ENGINEERING
4049 N FRESNO ST, FRESNO , CA 93726
P: (559) 221-7230 F: (559) 221-0507

	DATE	RECORD DRAWING		SCALE
DESIGNED:		RESIDENT ENGINEER	DATE	0 40' 80'
DRAWN:				
CHECKED:				

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

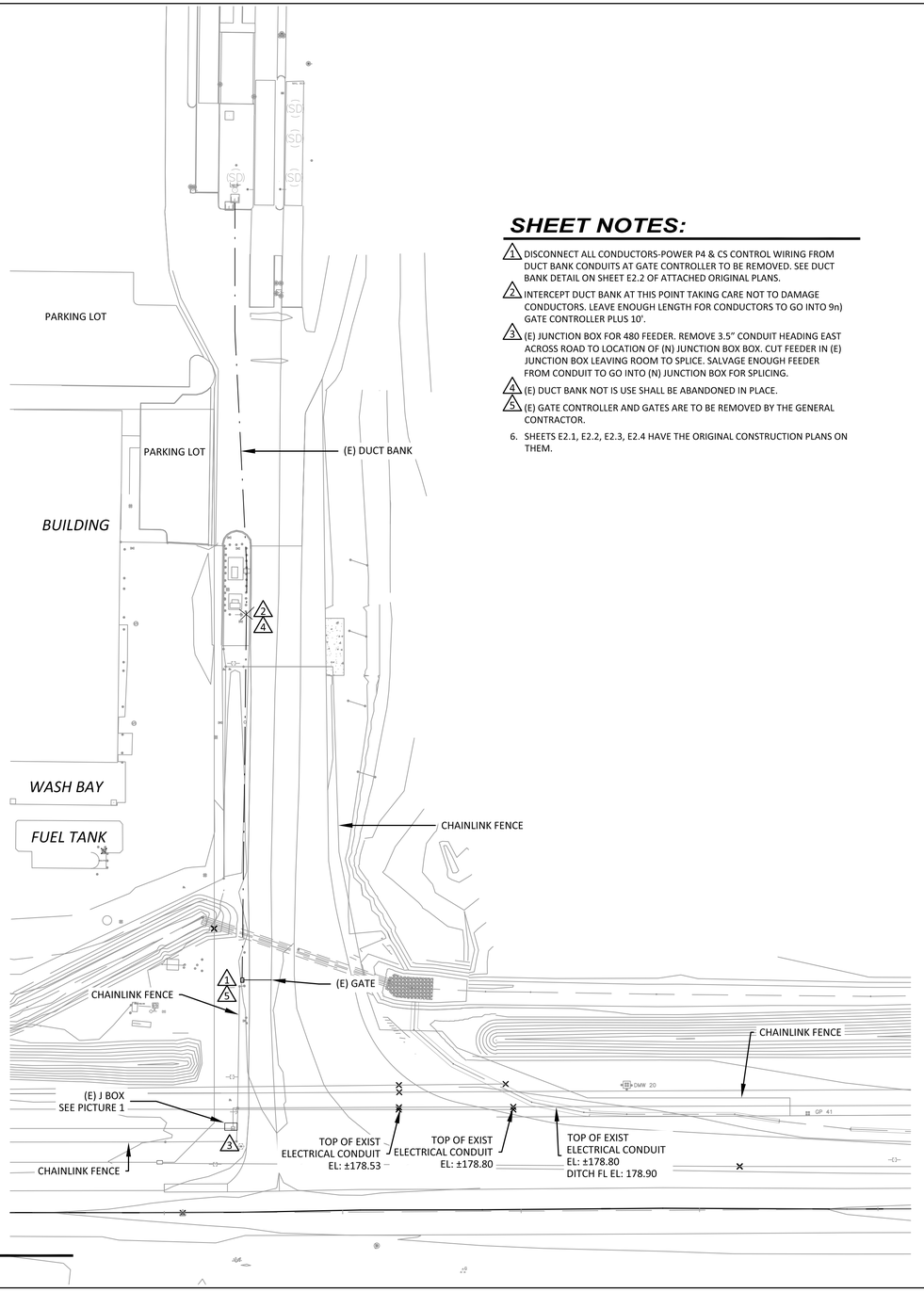
SUPERVISING ENGINEER _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER JOSEPH P. PREVENDAR No. 16581 ELECTRICAL STATE OF CALIFORNIA

PROJECT
AMERICAN AVE DISPOSAL SITE
ROAD NO. #### BRIDGE NO. ####

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING
LEGEND AND SHEET INDEX
DRAWING NO. SHEET NO. E0.1 TOTAL 38



0 20'-0" 40'-0" 80'-0"

SITE PLAN

SCALE: 1' = 40'

SHEET NOTES:

1. DISCONNECT ALL CONDUCTORS-POWER P4 & CS CONTROL WIRING FROM DUCT BANK CONDUITS AT GATE CONTROLLER TO BE REMOVED. SEE DUCT BANK DETAIL ON SHEET E2.2 OF ATTACHED ORIGINAL PLANS.
2. INTERCEPT DUCT BANK AT THIS POINT TAKING CARE NOT TO DAMAGE CONDUCTORS. LEAVE ENOUGH LENGTH FOR CONDUCTORS TO GO INTO 9n) GATE CONTROLLER PLUS 10'.
3. (E) JUNCTION BOX FOR 480 FEEDER. REMOVE 3.5" CONDUIT HEADING EAST ACROSS ROAD TO LOCATION OF (N) JUNCTION BOX BOX. CUT FEEDER IN (E) JUNCTION BOX LEAVING ROOM TO SPLICE. SALVAGE ENOUGH FEEDER FROM CONDUIT TO GO INTO (N) JUNCTION BOX FOR SPLICING.
4. (E) DUCT BANK NOT IS USE SHALL BE ABANDONED IN PLACE.
5. (E) GATE CONTROLLER AND GATES ARE TO BE REMOVED BY THE GENERAL CONTRACTOR.
6. SHEETS E2.1, E2.2, E2.3, E2.4 HAVE THE ORIGINAL CONSTRUCTION PLANS ON THEM.

PICTURE 1

3

WARNING
POWER LINES
OVERHEAD

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

JOE PREVENDAR P.E. CA EE 16581 joe@epsfresno.com
GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: FC1740.05	DATE: SEP 2020
FILE: FCPW17040_05 E1_1 DEMO SITE PLAN	
PLOT: 9/11/2020 10:50 AM / 0.3869:1	
DSGN: VCM	DRWN: WCH

EPS IS RESPONSIBLE FOR ELECTRICAL SYSTEMS DESIGN ONLY. EPS IS NOT RESPONSIBLE FOR ELECTRICAL SAFETY WORK PROCEDURES AND/OR USE OF REQUIRED PERSONAL PROTECTIVE EQUIPMENT, SEE NFPA 70E "STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE" AND OSHA 29 CFR. CONTRACTOR MUST READ SPECIFICATIONS AND INSTALL MATERIAL AS PER SPECIFICATIONS AND/OR PLANS OR AS PER E.P.S. APPROVAL. PLANS AND SPECIFICATIONS ONLY APPLY TO THE PROJECT FOR WHICH THEY WERE CREATED.

ELECTRICAL POWER SYSTEMS INC.
PROFESSIONAL AND CONSULTING ELECTRICAL ENGINEERING
4049 N FRESNO ST, FRESNO , CA 93726
P: (559) 221-7230 F: (559) 221-0507

	DATE	RECORD DRAWING	DATE
DESIGNED:		RESIDENT ENGINEER	
DRAWN:			
CHECKED:			

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

SCALE: 0 40' 80'

SUPERVISING ENGINEER ____ DATE ____

REGISTERED PROFESSIONAL ENGINEER JOSEPH P. PREVENDAR No. 16581 ELECTRICAL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE

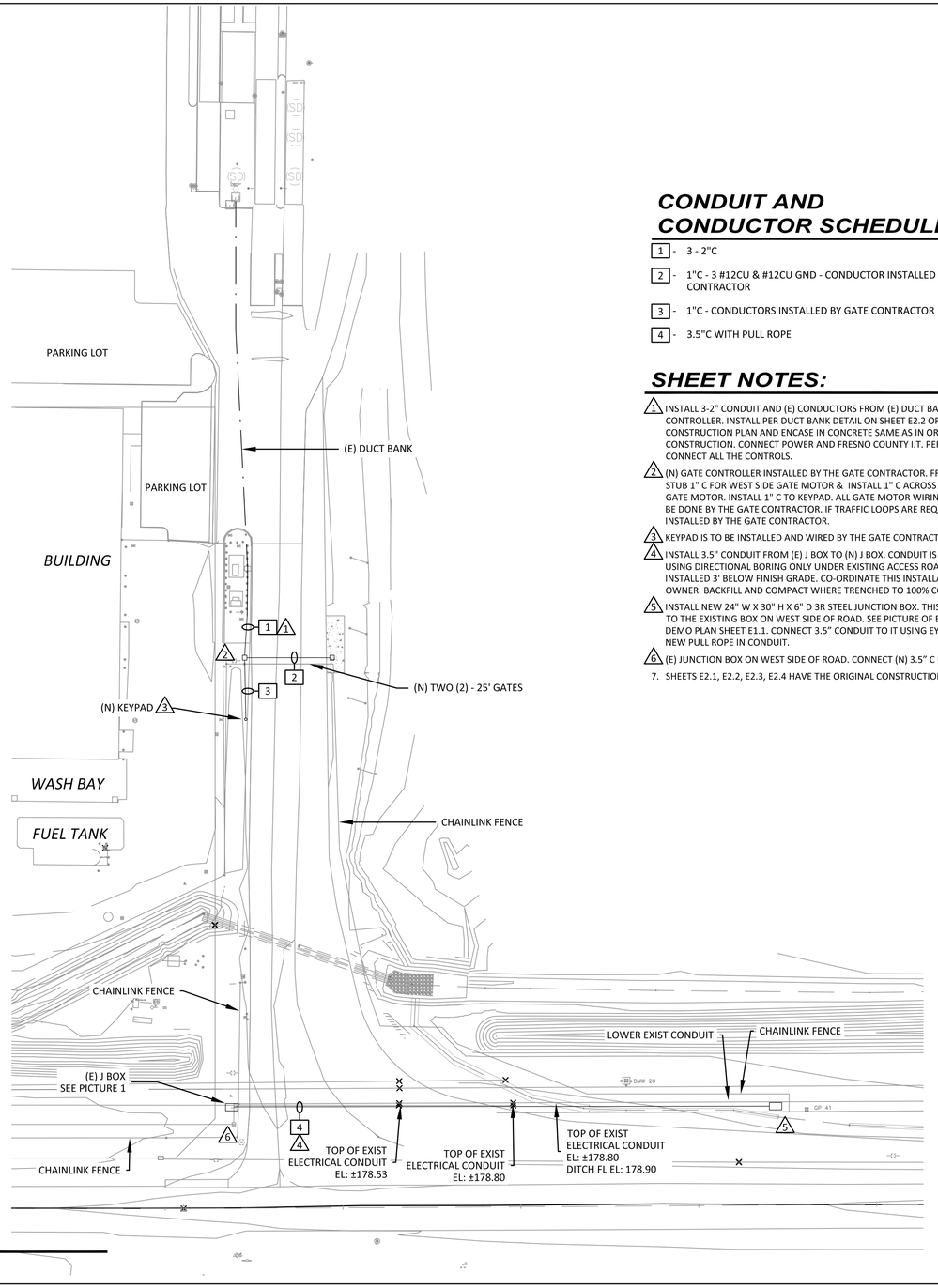
ROAD NO. #### BRIDGE NO. ####

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DEMO SITE PLAN

DRAWING NO. SHEET NO. E1.1 TOTAL 38



0 20'-0" 40'-0" 80'-0"

SITE PLAN

SCALE: 1' = 40'

CONDUIT AND CONDUCTOR SCHEDULE:

1 - 3 - 2"C

2 - 1"C - 3 #12CU & #12CU GND - CONDUCTOR INSTALLED BY GATE CONTRACTOR

3 - 1"C - CONDUCTORS INSTALLED BY GATE CONTRACTOR

4 - 3.5"C WITH PULL ROPE

SHEET NOTES:

1. INSTALL 3-2" CONDUIT AND (E) CONDUCTORS FROM (E) DUCT BANK INTO NEW GATE CONTROLLER. INSTALL PER DUCT BANK DETAIL ON SHEET E2.2 ORIGINAL CONSTRUCTION PLAN AND ENCASE IN CONCRETE SAME AS IN ORIGINAL CONSTRUCTION. CONNECT POWER AND FRESNO COUNTY I.T. PERSONNEL WILL CONNECT ALL THE CONTROLS.
2. (N) GATE CONTROLLER INSTALLED BY THE GATE CONTRACTOR. FROM CONTROLLER STUB 1" C FOR WEST SIDE GATE MOTOR & INSTALL 1" C ACROSS ROAD TO EAST SIDE GATE MOTOR. INSTALL 1" C TO KEYPAD. ALL GATE MOTOR WIRING CONNECTIONS WILL BE DONE BY THE GATE CONTRACTOR. IF TRAFFIC LOOPS ARE REQUIRED THEY WILL BE INSTALLED BY THE GATE CONTRACTOR.
3. KEYPAD IS TO BE INSTALLED AND WIRED BY THE GATE CONTRACTOR.
4. INSTALL 3.5" CONDUIT FROM (E) J BOX TO (N) J BOX. CONDUIT IS TO BE INSTALLED USING DIRECTIONAL BORING ONLY UNDER EXISTING ACCESS ROAD. CONDUIT IS TO BE INSTALLED 3' BELOW FINISH GRADE. CO-ORDINATE THIS INSTALLATION WITH THE OWNER. BACKFILL AND COMPACT WHERE TRENCHED TO 100% COMPACTION.
5. INSTALL NEW 24" W X 30" H X 6" D 3R STEEL JUNCTION BOX. THIS BOX IS TO BE SIMILAR TO THE EXISTING BOX ON WEST SIDE OF ROAD. SEE PICTURE OF EXISTING BOX ON DEMO PLAN SHEET E1.1. CONNECT 3.5" CONDUIT TO IT USING EYS SEALOFFS. INSTALL NEW PULL ROPE IN CONDUIT.
6. (E) JUNCTION BOX ON WEST SIDE OF ROAD. CONNECT (N) 3.5" C USING EYS SEALOFF.
7. SHEETS E2.1, E2.2, E2.3, E2.4 HAVE THE ORIGINAL CONSTRUCTION PLANS ON THEM.

WARNING
POWER LINES
OVERHEAD

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GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: FC1740.05	DATE: SEP 2020
FILE: FCPW17040_05 E1_2 NEW SITE PLAN	
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SUPERVISING ENGINEER DATE

PROJECT

AMERICAN AVE DISPOSAL SITE

ROAD NO. #### BRIDGE NO. ####

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

NEW SITE PLAN

DRAWING NO. SHEET NO. E1.2 TOTAL 38

ONE-LINE DIAGRAM LEGEND

- TRANSFORMER WITH PRIMARY AND SECONDARY VOLTAGE, AND KVA RATING AS NOTED
- 1500KVA 2.4KV ∆ – 480Y/277 3∅ 60HZ
- 20 — 22: 3#8,#10G,2" — CIRCUIT NO.22 WITH #8 INSULATED CONDUCTORS, 1#10 BARE GROUND WIRE ALL IN 2" CONDUIT TO 20 HP MOTOR.
- 15 — AUXILIARY ITEMS MAY NOT BE SHOWN COMPLETELY — ONE-LINE SHOWING POWER AND CONTROL TO A PACKAGE UNIT, AS FOR EXAMPLE A STEAM GENERATOR OR AN AIR HANDLING UNIT, SHALL IMPLY THAT ANY AND ALL ASSOCIATED EQUIPMENT SHALL ALSO BE INSTALLED AND WIRED AS REQUIRED BY THE EQUIPMENT FURNISHED.
- INDICATES THAT ALL OR PART OF CIRCUIT MAY BE ROUTED IN DUCT BANK OR UNDERGROUND. CONDUIT SIZE SHOWN ON ONE-LINE IS ABOVE GROUND AND/OR INSIDE OF STRUCTURE. SEE DUCT BANK SCHEDULE AND SECTIONS FOR CONDUIT SIZE OF UNDERGROUND PORTION OF CIRCUIT.
- HIGH VOLTAGE DRAWOUT AIR OR VACUUM CIRCUIT BREAKER
- 3P-20 — LOW VOLTAGE AIR CIRCUIT BREAKER, 3 POLE, 20 AMPERE
- S4 — SIZE 4 COMBINATION MAGNETIC MOTOR STARTER
- LOW VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- HIGH VOLTAGE DRAWOUT CONTACTOR
- FUSE AND DISCONNECT SWITCH

CONDUIT & WIRING INSTALLATION LEGEND

- CONDUIT EXPOSED
- CONDUIT CONCEALED
- CONDUIT TURNING UP. CONDUIT TURNING DOWN.
- CONDUIT PLUGGED FLUSH. CONDUIT CAPPED.
- SHORT DASH FOR EACH PHASE CONDUCTOR. LONG DASH FOR NEUTRAL CONDUCTOR. CIRCULAR DASH FOR GROUND WIRE.
- L2-5 — TYPICAL FOR HOME RUN TO BE ROUTED TO LIGHTING PANEL L2 & CONNECTED TO CIRCUIT #5
- A — LIGHTING FIXTURE. REFER TO NUMBER OR LETTER IN FIXTURE SCHEDULE
- 6 — DIRECTION INDICATED FOR DIRECTIONAL FIXTURE
- FLUORESCENT FIXTURE. REFER TO NUMBER OR LETTER IN FIXTURE SCHEDULE.
- E — UNDERGROUND CONCRETE ENCASED ELECTRICAL DUCT BANK
- UNDERGROUND CONCRETE ENCASED ELECTRICAL BANK ROUTED BENEATH SLAB-ON-GRADE
- EE — DIRECT BURIED CONDUIT
- GROUND CONDUCTOR

SWITCH & OUTLET SYMBOLS

S	SINGLE POLE SWITCH		DUPLEX RECEPTACLE 120 VOLT
S2	TWO POLE SWITCH		SIMPLEX RECEPTACLE
S3	THREE-WAY SWITCH		RANGE RECEPTACLE
S4	FOUR-WAY SWITCH		TWISTLOCK RECEPTACLE
SM	MOMENTARY SWITCH	30	240V ①] RECEPTACLE, TYPICAL AMPERE RATING NOTED
SWP	WEATHERPROOF SWITCH	60	480V ③] WELDING RECEPTACLE, TYPICAL AMPERE RATING NOTED
SP	SWITCH WITH PILOT LIGHT		120 VOLT DUPLEX RECEPTACLE (UPS)
SK	KEY OPERATED SWITCH		DUPLEX FLOOR OUTLET
SH	HAZARDOUS AREA SWITCH		TELEPHONE OUTLET
SD	DIMMER SWITCH		TELEPHONE FLOOR OUTLET
		CX	COAXIAL CABLE OUTLET

SCHEMATIC SYMBOLS

- WIRE CONNECTION POINT
- EXTERNAL CONNECTION POINT
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- STARTER, CONTACTOR OR RELAY COIL
- NORMALLY OPEN PUSH BUTTON
- NORMALLY CLOSED PUSH BUTTON
- MAINTAINED PUSH BUTTON
- NORMALLY CLOSED GEARED LIMIT SWITCH
- NORMALLY OPEN GEARED LIMIT SWITCH
- INDICATING LIGHT
- FUSE
- POTENTIOMETER
- CAPACITOR
- DIODE
- RESISTOR
- CONTROL POWER TRANSFORMER
- SWITCH
- MS — MANUAL STARTER
- OVERLOAD
- ELECTRODE
- FLOAT SWITCH (CLOSING ON RISING LEVEL)
- FLOAT SWITCH (OPENING ON RISING LEVEL)
- PRESSURE SWITCH (CLOSING ON RISING PRESSURE)
- PRESSURE SWITCH (OPENING ON RISING PRESSURE)
- VACUUM SWITCH (CLOSING ON INCREASING VACUUM)
- VACUUM SWITCH (OPENING ON INCREASING VACUUM)
- TEMPERATURE SWITCH (CLOSING ON RISING TEMPERATURE)
- TEMPERATURE SWITCH (OPENING ON RISING TEMPERATURE)
- FLOW ACTUATED SWITCH (CLOSING ON INCREASE IN FLOW)
- FLOW ACTUATED SWITCH (OPENING ON INCREASE IN FLOW)
- ON TIME DELAY SWITCH (NORMALLY OPEN WITH TIME DELAY CLOSING AFTER COIL IS ENERGIZED)
- ON TIME DELAY SWITCH (NORMALLY CLOSED WITH TIME DELAY OPENING AFTER COIL IS ENERGIZED)
- OFF TIME DELAY SWITCH (NORMALLY OPEN WITH TIME DELAY OPENING AFTER COIL IS DE-ENERGIZED)
- OFF TIME DELAY SWITCH (NORMALLY CLOSED WITH TIME DELAY CLOSING AFTER COIL IS DE-ENERGIZED)
- TORQUE SWITCH (NORMALLY OPEN)
- TORQUE SWITCH (NORMALLY CLOSED)
- LIMIT SWITCH (NORMALLY OPEN)
- LIMIT SWITCH (NORMALLY OPEN, HELD CLOSED)
- LIMIT SWITCH (NORMALLY CLOSED)
- LIMIT SWITCH (NORMALLY CLOSED, HELD OPEN)
- DIFFERENTIAL PRESSURE SWITCH (NORMALLY OPEN, CLOSING ON INCREASING DIFF.)
- DIFFERENTIAL PRESSURE SWITCH (NORMALLY CLOSED, OPENING ON INCREASING DIFF.)

COMMUNICATION SYMBOLS

- HORN SPEAKER
- DUAL HORN SPEAKER
- WALL MOUNTED CONE SPEAKER
- SK — CEILING MOUNTED CONE SPEAKER
- VC — VOLUME CONTROL
- WS (WP) — WALL STATION
- DS — DESK TOP STATION
- FP (WP) — FLUSH PANEL STATION
- RH (WP) — REMOTE HANDSET
- SA — SPEAKER AMPLIFIER
- LB — LINE BALANCE ASSEMBLY
- TG — TONE GENERATOR
- TI — TELEPHONE INTERFACE
- IA — INTERFACE AMPLIFIER
- IJB — INTERCOM JUNCTION BOX

NOTE: WP=WEATHERPROOF H=HAZARDOUS AREA

- A — INTERCOM CABLE

A = 16/C, 1" CONDUIT
B = 8/C, 1" CONDUIT
C = 2/C, 3/4" CONDUIT

MISCELLANEOUS SYMBOLS

- BELL
- HORN
- BUZZER
- UNIT HEATER
- THERMOSTAT
- J — JUNCTION BOX
- GROUND ROD
- GROUND CONNECTION
- DISCONNECT SWITCH
- COMBINATION STARTER
- POWER PANEL
- LIGHTING PANEL
- MISCELLANEOUS PANEL
- LIGHTING CONTACTOR

FIRE ALARM SYSTEM LEGEND

- HD — HEAT DETECTOR
- SD — SMOKE DETECTOR
- H L — AUDIO/VISUAL UNIT
- FS — FLOW SWITCH
- EOL — END-OF-LINE DEVICE
- F — FIRE ALARM PULL STATION

ABBREVIATIONS

A	AMBER, AMPERE, ALARM
AC	ALTERNATING CURRENT
ACB	AIR CIRCUIT BREAKER
AFD	ADJUSTABLE FREQUENCY DRIVE
AM	AMMETER
ANN	ANNUNCIATOR
AR	ALARM RELAY
AS	AMMETER SWITCH
AWG	AMERICAN WIRE GAGE
BC	BATTERY CHARGER
BR	BRAKE
BT	BEARING TEMPERATURE
C	CLOSE, COUNTER OR CONTACTOR
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CB"A"	CIRCUIT BREAKER AUXILIARY CONTACT (OPEN WHEN BREAKER IS OPEN OR TRIPPED CLOSED WHEN BREAKER IS CLOSED)
CB"B"	CIRCUIT BREAKER AUXILIARY CONTACT (CLOSED WHEN BREAKER IS OPEN OR TRIPPED OPEN WHEN BREAKER IS CLOSED)
CI	CELL INTERLOCK
CKT	CIRCUIT
CL2	CHLORINE
COS	CABLE OPERATED SWITCH
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CR	CURRENT OR CONTROL RELAY
CS	CONTROL STATION
CT	CYCLE TIMER OR CURRENT TRANSFORMER
CTC	CYCLE TIMER CLUTCH
CTM	CYCLE TIMER MOTOR
2/C	2 CONDUCTOR
4"C	4" CONDUIT
DC	DIRECT CURRENT
DI	DOOR INTERLOCK
DM	DAMPER MOTOR OR DEMAND METER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DPR	DIFFERENTIAL PRESSURE REGULATOR
DPS	DIFFERENTIAL PRESSURE SWITCH
DS	DISCONNECT SWITCH
DVLS	DISCHARGE VALVE LIMIT SWITCH
EC	EMPTY CONDUIT
EL	ELEVATION OR EMERGENCY LIGHT
EMH	ELECTRICAL MANHOLE
ER	ELECTRODE RELAY
ES	END SWITCH
ETM	ELAPSED TIME METER
EX	EXISTING
F	FORWARD
FS	FLOW SWITCH
G	GREEN OR GROUND
GD	GROUND DETECTOR
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GLS	GEARED LIMIT SWITCH
#6G	#6 GROUND WIRE
H	HIGH OR HUMIDISTAT
HC	HOT CIRCUIT
HH	HANDHOLE
HMT	HIGH MOTOR TEMPERATURE
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
HP	HORSEPOWER
HWCO	HIGH WATER CUTOFF
HZ	HERTZ (CYCLE)
I/O	INPUT/OUTPUT
INST	INSTANTANEOUS
J	JUNCTION BOX
JB	JUNCTION BOX
K	KEY INTERLOCK
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVAR
KW	KILOWATT
KWH	KILOWATT HOUR
L	LOW, LEVEL
LA	LIGHTNING ARRESTER
LC	LIGHTING CONTACTOR
LOR	LOCAL-OFF-REMOTE
LS	LIMIT OR LEVEL SWITCH
LWCO	LOW WATER CUTOFF
1-1PR#16S	ONE, SINGLE PAIR, TWISTED, SHIELDED #16 CABLE
3-7/C#14	THREE, SINGLE, SEVEN CONDUCTOR #14 MULTICONDUCTOR CONTROL CABLES
M	MAGNETIC MOTOR STARTER
MA	MILLIAMPERE
MCC	MOTOR CONTROL CENTER
MCLU	MOTOR CONTROL LINEUP
MCM	THOUSAND CIRCULAR MIL
MD	MOISTURE DETECTOR
MFM	MAGNETIC FLOW METER
MFR	MANUFACTURER
MH	MANHOLE OR MOUNTING HEIGHT
MOV	MOTOR OPERATED VALVE
MS	MANUAL MOTOR STARTER
MSH	MOTOR SPACE HEATER
MV	MILLIVOLT
MVA	MEGA VOLT AMPERE
N	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN, NUMBER
O	OPEN
OCB	OIL CIRCUIT BREAKER
OL	OVERLOAD
P	PRIMARY
PB	PUSH BUTTON OR PULL BOX
PC	PROGRAMMABLE CONTROLLER
PF	POWER FACTOR METER
PH	PHASE, CHEMICAL TERM
PRS	PROXIMITY SWITCH
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER, PROGRAM TIMER
2P	2 POLE
R	RED, RAISE, RELAY OR REVERSE
RECP	RECEPTACLE
RES	RESISTOR
RT	REPEATING TIMER
RTD	RESISTANCE TYPE TEMP DETECTOR
RTU	REMOTE TERMINAL UNIT
S2	SIZE 2 STARTER
SH	SPACE HEATER
SN	SOLID NEUTRAL
SO	SOLENOID OILER
SP	SINGLE POLE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SS	SELECTOR SWITCH
SUPV	SUPERVISORY CONTROL
SV	SOLENOID VALVE
SWGR	SWITCHGEAR
T	THERMOSTAT, TIMER, OR TOTALIZER
TACH	TACHOMETER
TB	TERMINAL BLOCK
TC	TIMER CLUTCH
TD	TIME DELAY RELAY
TEMP	TEMPERATURE
TM	TIMER MOTOR
TQ	TORQUE
TTB	TELEPHONE TERMINAL BOX
UG	UNDERGROUND
UV	UNDER VOLTAGE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERE
VAR	VARMETER
VLS	VALVE LIMIT SWITCH
VM	VOLTMETER
VPI	VALVE POSITION INDICATOR
VS	VOLTMETER SWITCH
W	WHITE OR WATTS
WH	WATTHOUR METER
WM	WATT METER
WP	WEATHERPROOF
X	AUXILIARY RELAY
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	YELLOW
Z	AUXILIARY RELAY
ZS	POSITION SWITCH

AREA DESIGNATIONS

THE SPECIAL AREA DESIGNATION BOXES, AS DEFINED BELOW, ARE LOCATED ON THE PLAN DRAWINGS TO DEFINE ELECTRICAL INSTALLATION REQUIREMENTS. DESIGNATION BOXES ARE LOCATED WITHIN ROOM OR BELOW ROOM NUMBER. ALL INDOOR AREAS NOT INDICATED OTHERWISE ARE AREA TYPE 1 AND MINIMUM NEMA TYPE 1 ENCLOSURES.

- AREA TYPE 1A — CORROSIVE CHEMICAL FEED AND STORAGE ROOMS. CONDUIT SYSTEM SHALL BE EXPOSED PVC RIGID NON-METALLIC CONDUIT WITH PVC FITTINGS, BOXES, AND ACCESSORIES.
- AREA TYPE 4 — INDOOR WET LOCATIONS SUCH AS VAULTS, HOSEDOWN AREAS, BASEMENTS, ETC. MINIMUM NEMA TYPE 4 ENCLOSURE FOR EQUIPMENT AND GASKETED FITTINGS IN A CONDUIT SYSTEM.
- AREA TYPE 7A — CLASS 1, DIVISION 1 AREA AS DEFINED BY NEC. ALL EQUIPMENT AND CONDUIT SYSTEMS SHALL BE RATED FOR USE IN THIS AREA.
- AREA TYPE 7B — CLASS 1, DIVISION 2, GROUP C AND D (METHANE, GASOLINE) AS DEFINED BY NEC. EQUIPMENT AND CONDUITS SYSTEMS SHALL BE RATED FOR USE IN THIS AREA.
- AREA TYPE 12 — INDOOR, DRY, DIRTY AREA. REQUIRES MINIMUM NEMA TYPE 12 GASKETED ENCLOSURES FOR ALL EQUIPMENT AND GASKETED FITTINGS IN CONDUIT SYSTEMS.

GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS NOT SHOWN ON THE PLANS. THIS SHALL INCLUDE ALL CONDUITS SHOWN ON THE ONE-LINES AND HOME-RUNS SHOWN ON THE PLAN DRAWINGS. CONDUITS SHALL BE ROUTED AS DEFINED IN THE SPECIFICATIONS.
2. SPARE WIRES SHALL BE TAPED AND COILED.
3. IF EQUIPMENT SUPPLIED BY MANUFACTURER HAS A LARGER LOAD THAN VALUE SHOWN, THE CABLE CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE ENLARGED, AS REQUIRED, TO ACCOMMODATE THE HIGHER VALUE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPERLY SIZED STARTER OVERLOADS FOR EQUIPMENT FURNISHED.
5. LIGHTING AND RECEPTACLE CIRCUITS SHOWN ON THE FLOOR PLANS ARE NOT SHOWN ON THE ONE-LINES.
6. IN AREAS WHERE THERE ARE OVERHEAD BRIDGE CRANES, HOISTS, ETC., NO CONDUITS SHALL BE RUN OVERHEAD THAT WILL INTERFERE WITH THE OPERATION OF THE EQUIPMENT.

GENERAL NOTES

1. SOLID LINES (———) INDICATE NEW WORK OR EQUIPMENT.
2. SCREENED LINES (▒▒▒) INDICATE EXISTING WORK OR EQUIPMENT.
3. DASHED LINES (— —) INDICATE FUTURE WORK OR EQUIPMENT.
4. REFER TO THE FOLLOWING DRAWING(S) FOR EQUIPMENT DESIGNATION LEGEND:
5. REFER TO THE FOLLOWING DRAWING(S) FOR INSTRUMENTATION LEGEND:
6. THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED ON THIS SPECIFIC PROJECT.
7. INFORMATION RELATED TO CIRCUIT IDENTIFICATION, WIRE & CONDUIT SIZES, AND ROUTING, IS ON THE FOLLOWING DRAWING TYPES.
   - A. ONE-LINE DIAGRAMS SHOW CIRCUIT IDENTIFICATION, WIRE QUANTITY AND SIZES, AND CONDUIT SIZE WITHIN STRUCTURES. ONE-LINE DIAGRAMS ALSO INDICATE ORIGIN AND DESTINATION OF CIRCUITS, AND IDENTIFY CIRCUITS ROUTED UNDERGROUND.
   - B. FOR CIRCUITS WITHOUT UNDERGROUND PORTIONS, BUILDING FLOOR PLANS SHOW LOCATION OF EQUIPMENT FOR DETERMINING CIRCUIT LENGTH WITHIN THE STRUCTURE. FOR CIRCUITS WITH UNDERGROUND PORTIONS, ANTICIPATED PENETRATION OF UNDERGROUND CONDUITS ARE SHOWN ON STRUCTURE PLANS FOR DETERMINING THE LENGTH OF THE IN-STRUCTURE PORTIONS OF CIRCUITS. BUILDING FLOOR PLANS MAY ALSO SHOW HOME RUNS FOR LIGHTING, RECEPTACLE, AND OTHER MISCELLANEOUS EQUIPMENT CIRCUITS.
   - C. SITE PLANS INDICATE THE GENERAL ROUTING OF UNDERGROUND CONDUITS AND DUCT BANKS. CIRCUITS ROUTED IN UNDERGROUND CONDUITS OR DUCT BANKS ARE INDICATED IN DUCT BANK SECTIONS REFERENCED ON THE SITE PLAN.
   - D. DUCT BANK SECTIONS AND SCHEDULES IDENTIFY CONDUIT SIZE, CONDUIT MATERIAL, ARRANGEMENT OF THE UNDERGROUND CONDUITS, AND CIRCUITS ROUTED IN EACH UNDERGROUND CONDUIT.

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REGISTERED PROFESSIONAL ENGINEER JOSEPH P. PREVENDAR No. 16581 ELECTRICAL STATE OF CALIFORNIA

PROJECT

AMERICAN AVE DISPOSAL SITE

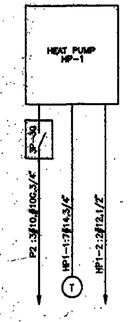
ROAD NO. #### BRIDGE NO. ####

THE COUNTY OF FRESNO 1856

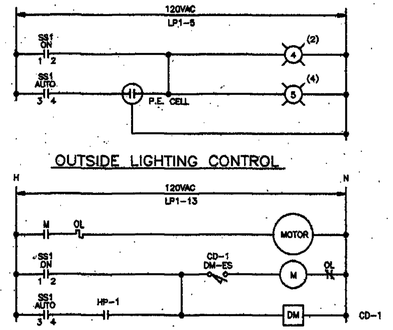
DEPARTMENT OF PUBLIC WORKS AND PLANNING

ORIGINAL CONSTRUCTION PLANS

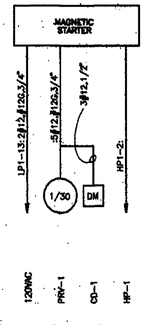
DRAWING NO. SHEET NO. E2.1 TOTAL 38



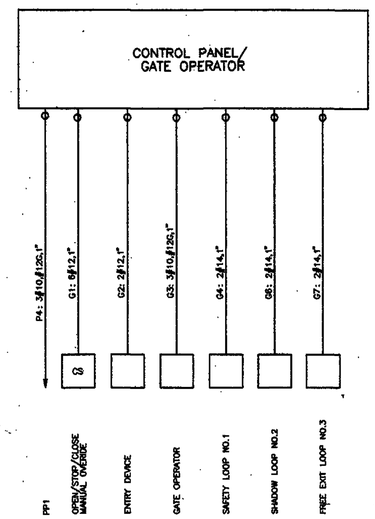
HP-1
ONE-LINE



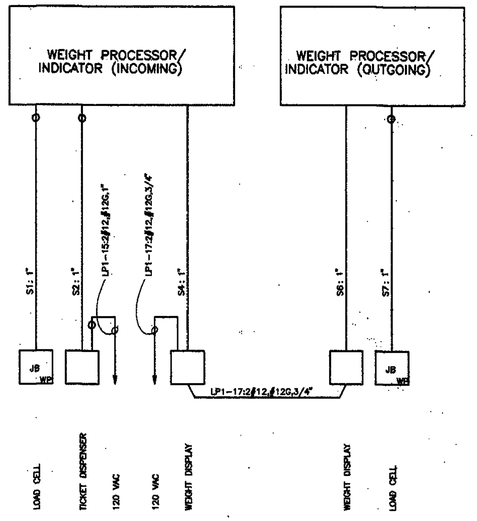
OUTSIDE LIGHTING CONTROL



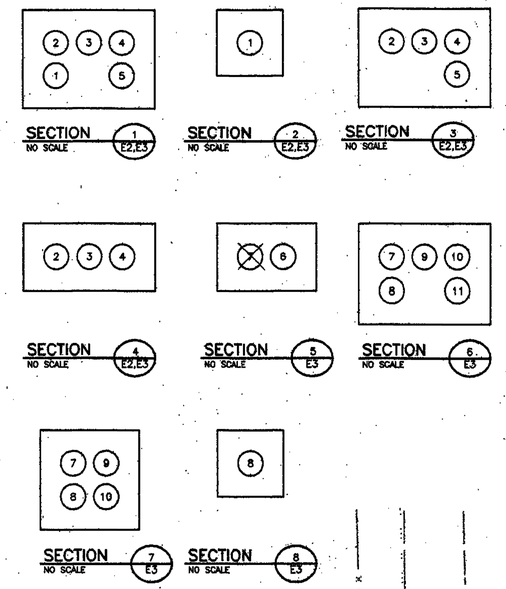
PRV-1



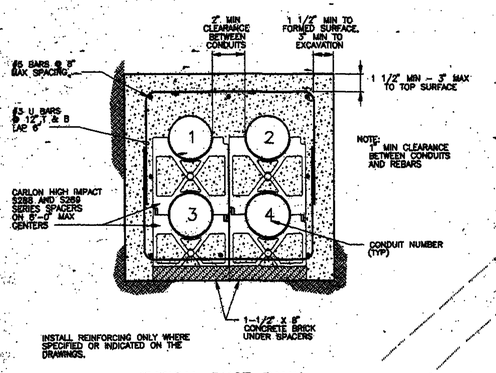
GATE ONE-LINE DIAGRAM



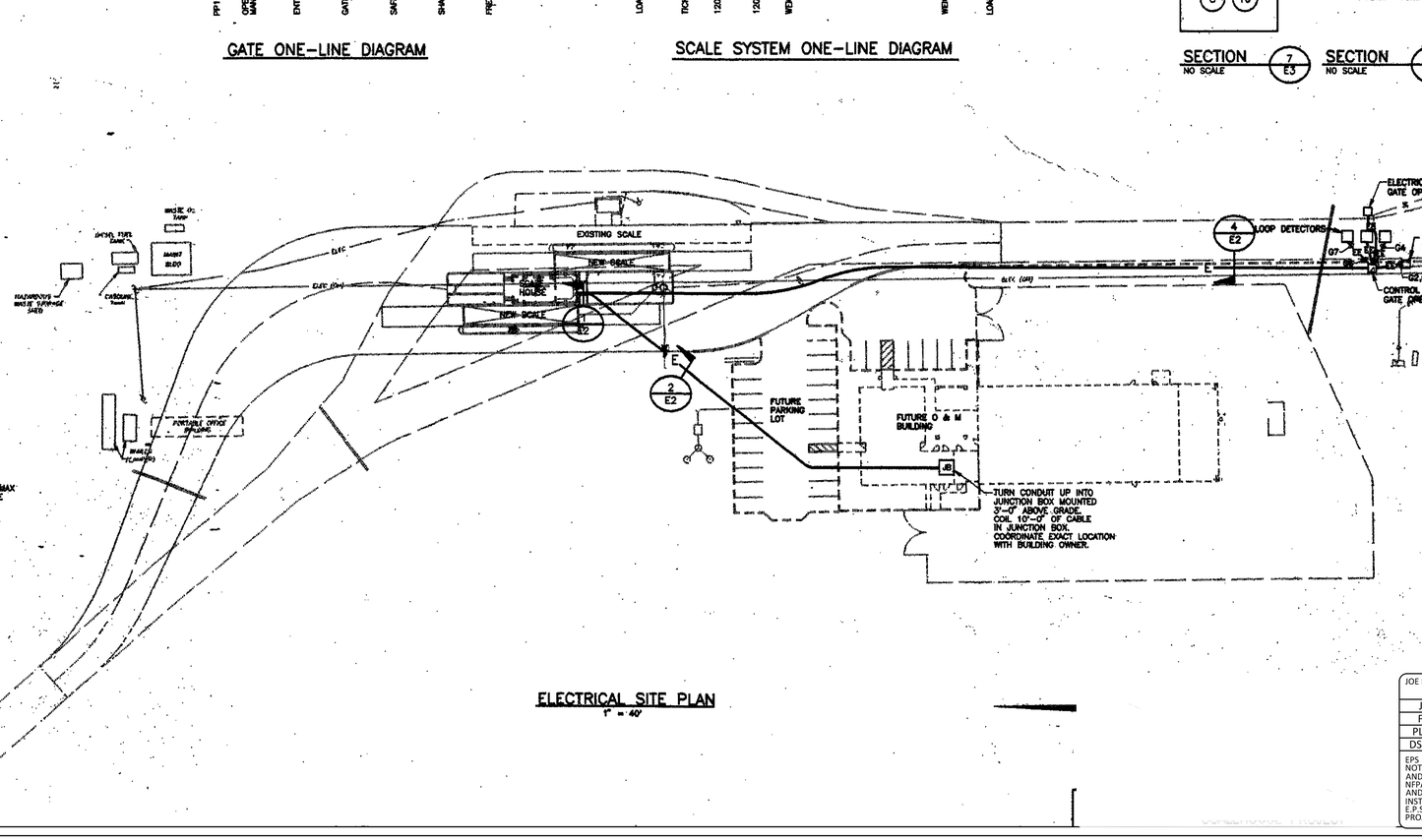
SCALE SYSTEM ONE-LINE DIAGRAM



DUCT BANK SCHEDULE			
COND NO.	SIZE	CIRCUIT NUMBER	REMARKS
1	2"	P1	SPARE
2	2"	G1	
3	2"	EC	
4	2"	P4	
5	2"	LP1-24,26	
6	2"	S7	
~~7~~	~~2"~~	~~LP1-25~~	
8	2"	S8 (EXISTING LOAD CELL)	
9	2"	S2	
10	2"	LP1-15	
11	2"	S1	



TYPICAL DUCT BANK
SECTION
NO SCALE



ELECTRICAL SITE PLAN
1" = 40'

JOE PREVENDAR P.E. CA EE 16581
joe@epsfresno.com
GARY OLSEN P.E. CA EE 8283
gary@epsfresno.com

JOB: FC1740.05	DATE: SEP 2020
FILE: FCPW17040_05 E2_2 ORGINAL PLANS	
PLOT: 9/11/2020 11:52 AM / 0.3869:1	
DSGN: VCM	DRWN: WCH

ELECTRICAL POWER SYSTEMS INC.
PROFESSIONAL AND CONSULTING ELECTRICAL ENGINEERING
4049 N FRESNO ST, FRESNO , CA 93726
P: (559) 221-7230 F: (559) 221-0507

	DATE	RECORD DRAWING		SCALE
DESIGNED:		RESIDENT ENGINEER	DATE	0 40' 80'
DRAWN:				
CHECKED:				

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

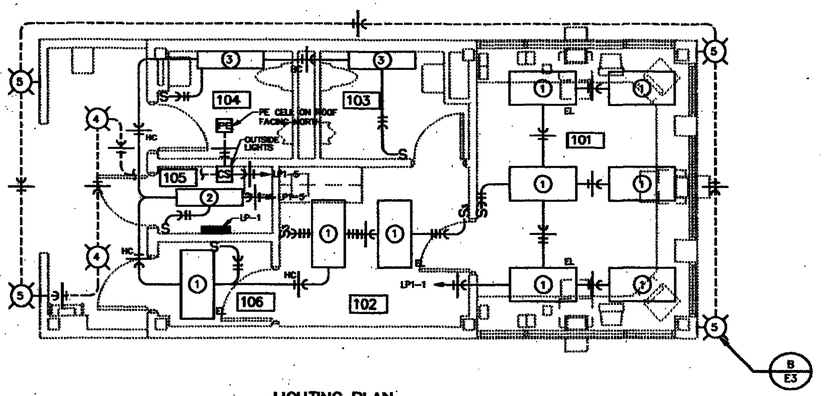
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSEPH P. PREVENDAR No. 16581 ELECTRICAL STATE OF CALIFORNIA

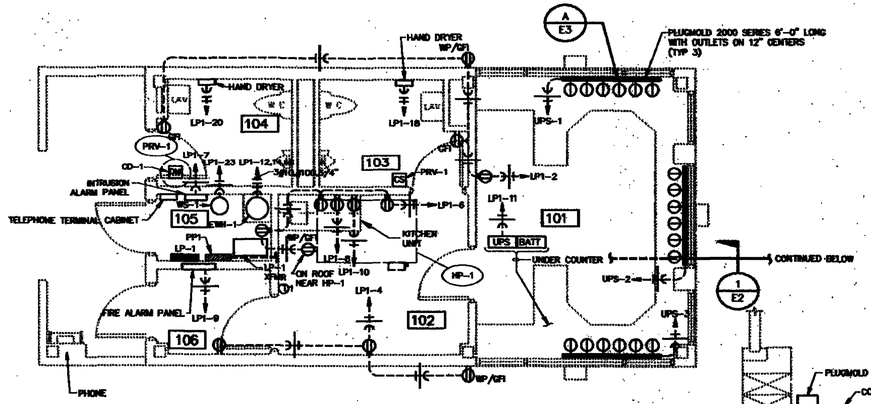
PROJECT
AMERICAN AVE DISPOSAL SITE
ROAD NO. #### BRIDGE NO. ####

COUNTY OF FRESNO 1856

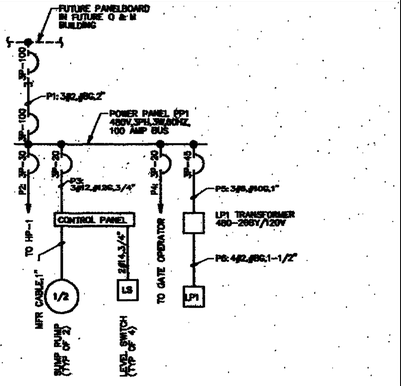
DEPARTMENT OF PUBLIC WORKS AND PLANNING
ORIGINAL CONSTRUCTION PLANS
DRAWING NO. SHEET NO. E2.2 TOTAL 38



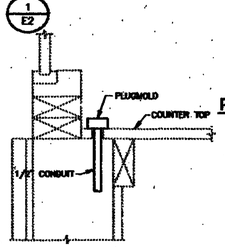
LIGHTING PLAN
1/4"=1'-0"



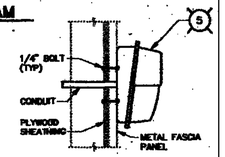
POWER PLAN
1/4"=1'-0"



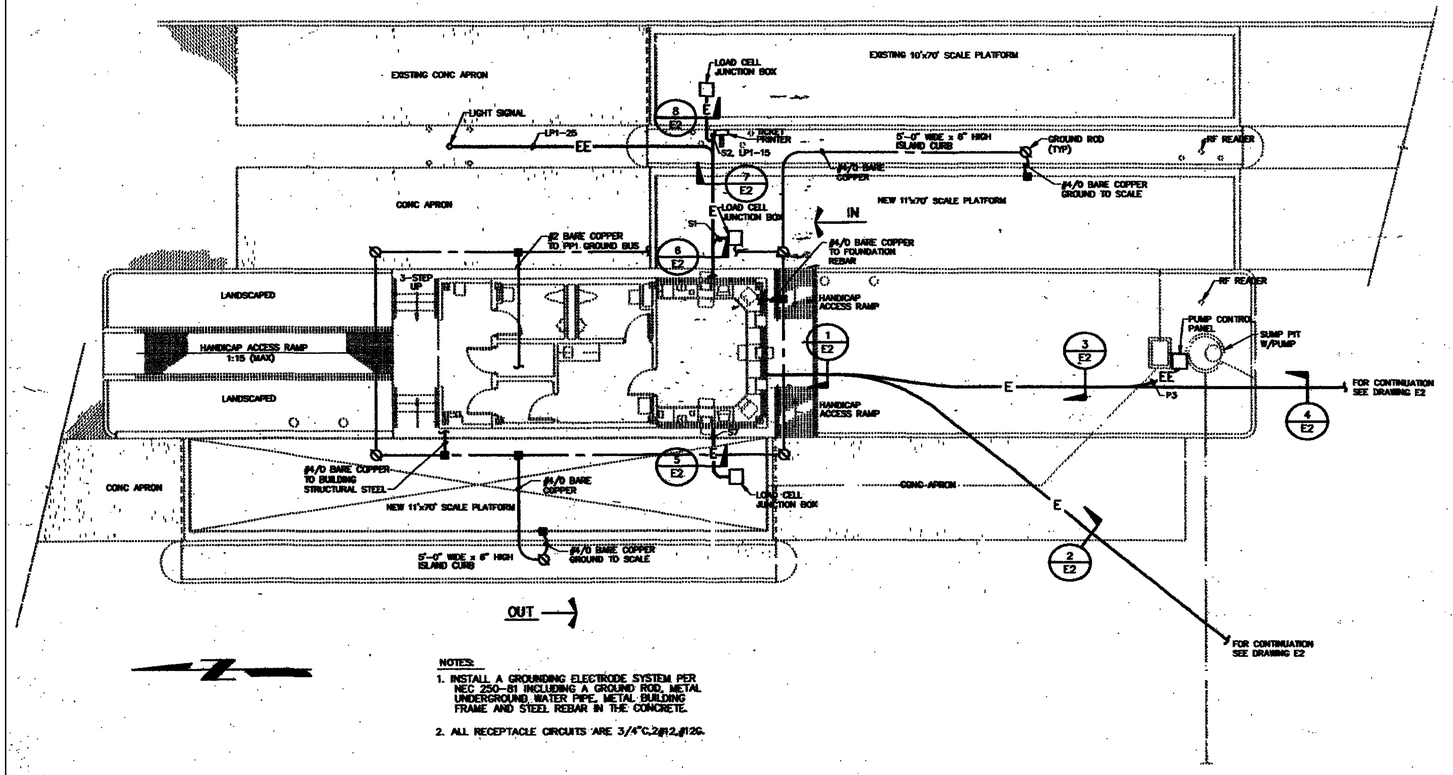
POWER RISER DIAGRAM



DETAIL A
NO SCALE



DETAIL B
NO SCALE



NOTES:

1. INSTALL A GROUNDING ELECTRODE SYSTEM PER NEC 250-81 INCLUDING A GROUND ROD, METAL UNDERGROUND WATER PIPE, METAL BUILDING FRAME AND STEEL REBAR IN THE CONCRETE.
2. ALL RECEPTACLE CIRCUITS ARE 3/4"C.2#12,#12G.

LIGHTING FIXTURE SCHEDULE

SYMBOL	LAMP	MTG HGT	DESCRIPTION	MANUFACTURER
(1)	F32T8/SP35/RS 2850 LUMENS	CEILING MOUNTED-RECESSED	2'x2', 2-LAMP FLUORESCENT STATIC TROFFER FOR LAY-IN GRID CEILING, WHITE STEEL FRAME & ACRYLIC LENS. 120V.	LITHONIA 2SPG232A12120GEB
(2)	F32T8/SP35/RS 2850 LUMENS	CEILING MOUNTED-SURFACE	2-LAMP INDUSTRIAL FLUORESCENT, 100% UPLIGHT WITH PORCELAIN REFLECTOR, PENDANT MOUNT. 120V.	LITHONIA AF102321200GEB
(3)	F32T8/SP35/RS 2850 LUMENS	7'-6" ABOVE FLOOR	2-LAMP FLUORESCENT COMMERCIAL WALL BRACKET WITH UP AND DOWN LIGHT. 120V.	LITHONIA WB232A120GEB
(4)	LU50 4000 LUMENS	CEILING MOUNTED-SURFACE	50W HIGH PRESSURE SODIUM FIXTURE WITH CLEAR PRISMATIC POLYCARBONATE DIFFUSER. DARK BRONZE FINISH. 120V.	LITHONIA VR3C50S120
(5)	LU50 4000 LUMENS	8'-0" ABOVE GRADE	50W HIGH PRESSURE SODIUM WALL-PACK, DARK BRONZE DIE-CAST ALUMINUM HOUSING, PRISMATIC GLASS REFRACTOR. 120V.	LITHONIA TWH50S120

NOTE: FLUORESCENT FIXTURES MARKED WITH "EL" SHALL BE EQUIPPED WITH EMERGENCY BATTERY PACK.

PANELBOARD: LP1			BUS: COPPER			MAINS: 3P-100A MAIN BREAKER		
SERVICE: 120/208V,3PH,4W,S/N			RATING: 225A			LOCATION: SCALE HOUSE ROOM 105		
MOUNTING: SURFACE								
LOAD	P	BKR	CKT#	BKR	P	LOAD		
LIGHTS – RM 101	1	20	1	2	20	1	RECP – RM 101,103,104 & OUTSIDE	
LIGHTS – RM 102,103,104,105 & 106	1	20	3	4	20	1	RECP – RM 102,106 & OUTSIDE	
LIGHTS – OUTSIDE	1	20	5	6	20	1	RECP – RM 102 & 105	
INTRUSION ALARM SYSTEM	1	20	7	8	20	1	RECP – RM 102 (REFRIGERATOR)	
FIRE ALARM PANEL	1	20	9	10	20	1	RECP – RM 102 (MICROWAVE)	
UPS	1	20	11	12	25	3	EWH-1	
PRV-1	1	20	13	14	---	--	---	
TICKET DISPENSER	1	20	15	16	---	--	---	
WEIGHT DISPLAY	1	20	17	18	30	1	HAND DRYER RM 103	
SPARE	1	20	19	20	30	3	HAND DRYER RM 104	
SPARE	1	20	21	22	20	1	SPARE	
WS-1	1	20	23	24	20	1	SPARE	
SIGNAL LIGHTS	1	20	25	26	20	1	SPARE	
SPARE	1	20	27	28	20	1	SPARE	
SPARE	1	20	29	30	20	1	SPARE	

NOTES:

1. SEE DRAWING E-1 FOR ELECTRICAL LEGEND & ABBREVIATIONS AND GENERAL REQUIREMENTS.

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GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: FC1740.05 | DATE: SEP 2020
FILE: FCPW17040_05 E2_3 ORIGINAL PLANS
PLOT: 9/11/2020 12:55 PM / 0.3869:1
DSGN: VCM | DRWN: WCH

ELECTRICAL POWER SYSTEMS INC.
PROFESSIONAL AND CONSULTING ELECTRICAL ENGINEERING
4049 N FRESNO ST, FRESNO , CA 93726
P: (559) 221-7230 F: (559) 221-0507

	DATE	RECORD DRAWING		DATE
DESIGNED:		RESIDENT ENGINEER		
DRAWN:				
CHECKED:				

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

SCALE: 0 40' 80'

SUPERVISING ENGINEER ____ DATE ____

REGISTERED PROFESSIONAL ENGINEER JOSEPH P. PREVENDAR No. 16581 ELECTRICAL STATE OF CALIFORNIA

PROJECT
AMERICAN AVE DISPOSAL SITE
ROAD NO. #### BRIDGE NO. ####

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING
ORIGINAL CONSTRUCTION PLANS
DRAWING NO. SHEET NO. E2.3 TOTAL 38

SYMBOL SCHEDULE

SYMBOL	DEFINITION
SAP	SECURITY ALARM PANEL. MOUNT AT MAIN EQUIPMENT BACKGROUND, OR AS SHOWN.
MCP	METHANE DETECTION CONTROL PANEL. MOUNT AT MAIN EQUIPMENT BACKBOARD, OR AS SHOWN
ECP	EVACUATION CONTROL PANEL. MOUNT AT MAIN EQUIPMENT BACKBOARD, OR AS SHOWN.
H	EVACUATION SIGNAL HORN. MOUNT OVER A SINGLE GANG BOX AT 80" A.F.F.
HV	EVACUATION SIGNAL W/ VISUAL STROBE. MOUNT OVER A SINGLE GANG BOX AT 80" A.F.F.
M	METHANE DETECTOR. MOUNT ON CEILING, OVER A 4" SQUARE BOX / UTILITY COVER. PAINT COVER TO MATCH ADJACENT AREA.
G	BREAK-GLASS DETECTOR. MOUNT ON CEILING OVER A SINGLE GANG BOX.
MD	MOTION DETECTOR. WALL MOUNT AT 7'-6" A.F.F., WITH SWIVEL MOUNT OVER A SINGLE GANG BOX. LINE DENOTES DIRECTION OF FOCUS.
MD	LONG RANGE MOTION DETECTOR. MOUNT AT 10'-0" OVER A 4" SQUARE BOX WITH COVER. LINE DENOTES DIRECTION OF FOCUS.
DC	FLUSH MOUNT, MAN-DOOR MAGNETIC DOOR CONTACT. MOUNT AT LEADING TOP EDGE OF DOOR / FRAME.
DC D	ROLL DOOR CONTACT. MOUNTS AT BOTTOM OF DOOR / FLOOR. ARMORED CABLE TERMINATES IN A SINGLE GANG JUNCTION BOX NEAR FLOOR.
K	INTRUSION SYSTEM KEY PAD. MOUNT OVER A SINGLE GANG BOX IN FINISHED AREAS, MOUNT OVER 2 GANG BOX IN SHOP AREA. MOUNT AT 5'-0" A.F.F. SUFFIX 'W' DENOTES REQUIREMENT FOR A NEMA RAIN TIGHT ENCLOSURE.
B	INTRUSION SYSTEM ALARM SIGNAL. MOUNT AT 10'-0" A.F.G. OVER A SINGLE GANG BOX.
F	MANUAL EVACUATION STATION. MOUNT OVER A TWO GANG BOX WITH A SINGLE GANG RING AT 4'-0" A.F.F. TO TOP OF STATION.
S	ION DETECTOR. CEILING MOUNT OVER A 4" SQUARE BOX.
N	EVACUATION SYSTEM REMOTE ANNUNCIATOR. WALL MOUNT AT 5'-0" A.F.F. IN SPECIAL BACK BOX.
C	CEILING MOUNTED SURVEILLANCE TELEVISION CAMERA. MOUNT OVER A SINGLE GANG BOX.
	POLE MOUNTED SURVEILLANCE TELEVISION CAMERA. REGER TO DETAIL FOR MOUNTING.
VC	CONTROLLER / MONITOR FOR POLE MOUNTED CAMERAS. COUNTER MOUNT.
— — —	DENOTES FUTURE EQUIPMENT WHICH WILL MATCH AND ATTACH TO EXISTING EQUIPMENT. OR DENOTES CONDUIT UNDER SLAB / UNDER GROUND.
	ELECTRICAL GUTTER. 6" x 6" x 18"
Z#	INSTANT ALARM INITIATION ZONE RELATING TO THE MASTER TO WHICH THE DEVICE IS CONNECTED.
DZ#	ENTRY-EXIT DELAY ALARM ZONE RELATING TO THE MASTER TO WHICH THE DEVICE IS CONNECTED.
N.T.S.	NOT TO SCALE
F.F.	FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
F.G.	FINISHED GRADE
A.F.G.	ABOVE FINISHED GRADE

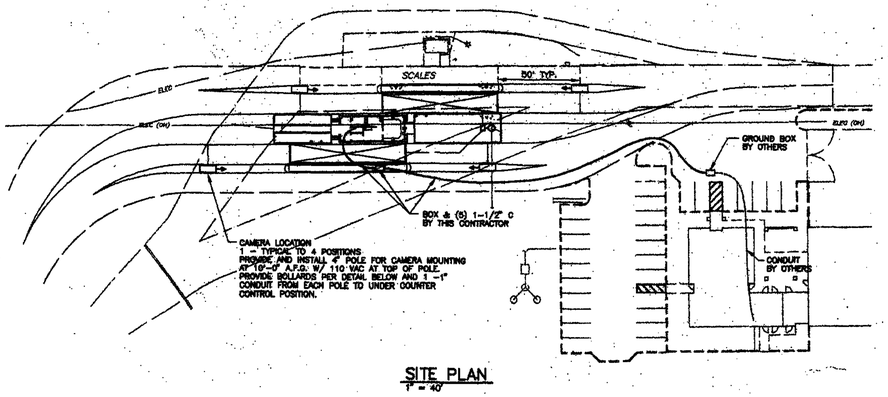
NOTE: METHANE DETECTORS AND MOTION SENSORS ARE POSITIONED ON THE INSTALLATION DRAWINGS DENOTING THE REQUIREMENT FOR INSTALLATION, HOWEVER, AND IN ALL CASES, DETECTORS MUST BE PLACED AWAY FROM THE DIRECT FLOW OF DISCHARGE AIR PRODUCED BY ALL AIR HANDLING REGISTERS, WHETHER FROM AIR CONDITIONING, FORCE AIR HEATING, OR FROM SWAMP COOLING. METHANE DETECTORS MUST, IN ALL CASES, BE PLACED AT HIGH POINTS IN ANY SPACE.

WIRE AND CABLE SCHEDULE

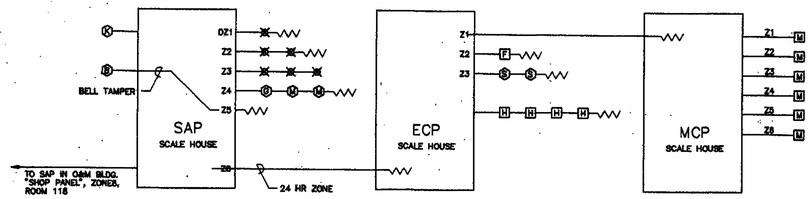
USE	DESCRIPTION
CAMERA COAXIAL:	WEST PENN NO. Q841, RG-6/U, O.D. .180", 18 GA. SOLID, 6.5 OHMS/M'.
CAMERA POWER SUPPLY:	WEST PENN NO. 295, 14/2, STRANDED--SHIELDED, O.D. .248", 2.7 OHMS/M'.
PAN-TILT CONTROL:	WEST PENN NO. 294, 18/2, STRANDED--SHIELDED, O.D. .192", 4.4 OHMS/M'.
INTRUSION KEY PAD / DETECTOR	WEST PENN NO. 241 22/4 STRANDED, O.D. .163", 17 OHMS/M'.
INTRUSTION DETECTOR POWER	WEST PENN NO. 224, 18/2 STRANDED, O.D. .165", 6.2 OHMS/M'.
METHANE DETECTOR:	WEST PENN NO. 244, 18/4 STRANDED, O.D. .201", 6.2 OHMS/M'.
SMOKE DETECTOR / MANUAL STATION:	WEST PENN NO. 980, 18/2 SOLID, O.D. .156", 6.5 OHMS/M'.
METHANE / INTRUSION SIGNAL:	WEST PENN NO. 995, 14/2 SOLID, O.D. .211", 2.6 OHMS/M'.
DIGITAL COMMUNICATOR:	TELEPHONE CABLE BY TELEPHONE CONTRACTOR. REPORTING FEES BY OWNER.

CONDUIT SCHEDULE

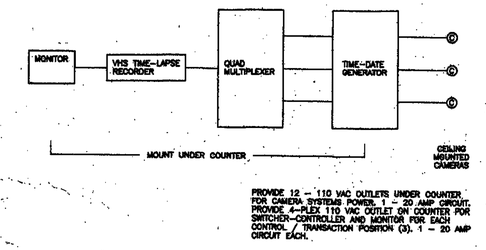
OFFICE AREA:	3/4" STUB FROM WALL MOUNTED DEVICE TO ACCESSIBLE ATTIC.
EXTERNAL SIGNAL DEVICE:	1/2" CONDUIT FROM MAN-DOOR TO ACCESSIBLE ATTIC, SEE DETAIL.
SHOP AREA:	3/4" CONDUIT TO MAIN EQUIPMENT BACKBOARD.
METHANE DETECTORS:	1/2" CONDUIT FOR ALL DOOR CONTACTS, JUNCTION W/ 3/4" HOME RUNS.
KEY PADS:	3/4" CONDUIT.
POLE MOUNTED CAMERAS:	3/4" CONDUIT.
SITE CONDUIT:	1" CONDUIT. 1 1/2" CONDUIT OR AS NOTED.
DEFINITION:	CONDUIT; INTERNAL CONVEYANCES SHALL BE EMT (ELECTRICAL METALLIC TUBING), MINIMUM, SITE CONDUIT SHALL BE SCHEDULE 80 PVC, MINIMUM, OR AS DIRECTED BY THE ELECTRICAL ENGINEER. CONDUIT AND POWER BY ELECTRICAL CONTRACTOR.



SITE PLAN
1" = 40'

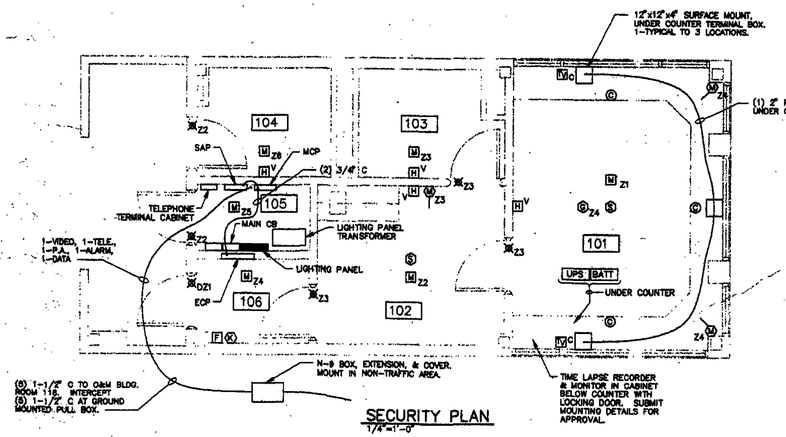


PANEL BOARD PLAN
N.T.S.

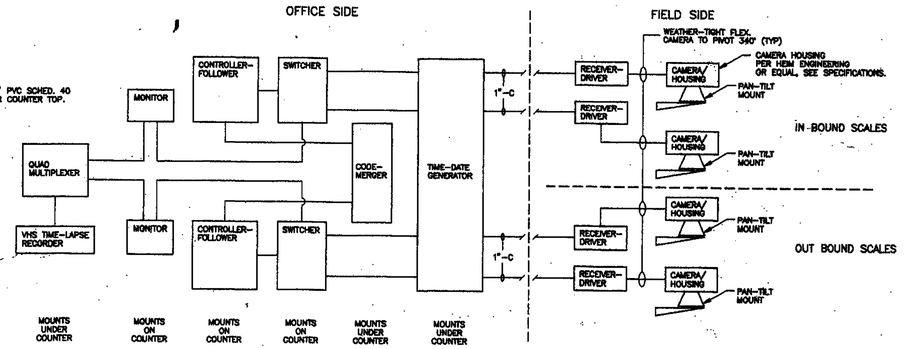


PROVIDE 12 - 110 VAC OUTLETS UNDER COUNTER FOR CAMERA SYSTEMS POWER, 1 - 20 AMP CIRCUIT. PROVIDE 4-PLEX 110 VAC OUTLET ON COUNTER FOR SWITCHER-CONTROLLER AND MONITOR FOR EACH CONTROL / TRANSACTION POSITION (3). 1 - 20 AMP CIRCUIT EACH.

TRANSACTION CAMERA SYSTEM
RISER DIAGRAM
N.T.S.



SECURITY PLAN
1/4"=1'-0"



RECEIVER DRIVERS MOUNT ON MOUNTING POLE IN HOUSING ENCLOSURE. PROVIDE 110 VAC AT RECEIVER-DRIVER LOCATION. SECURITY CONTRACTOR TO CONNECT.

TRUCK OBSERVATION CAMERA SYSTEM
RISER DIAGRAM
N.T.S.

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GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: FC1740.05	DATE: SEP 2020
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DRAWN:			
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FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 40' 80'

SUPERVISING ENGINEER ____ DATE

REGISTERED PROFESSIONAL ENGINEER JOSEPH P. PREVENDAR No. 16581 ELECTRICIAN STATE OF CALIFORNIA

PROJECT
AMERICAN AVE DISPOSAL SITE
ROAD NO. #### BRIDGE NO. ####

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING
ORIGINAL CONSTRUCTION PLANS
DRAWING NO. SHEET NO. E2.4 TOTAL 38