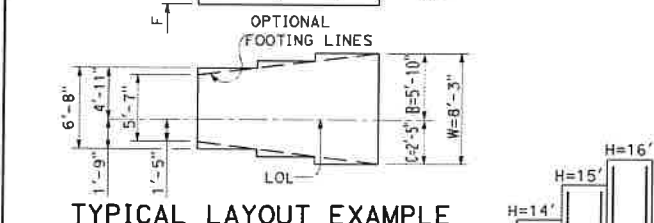
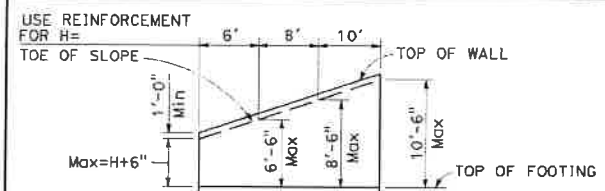
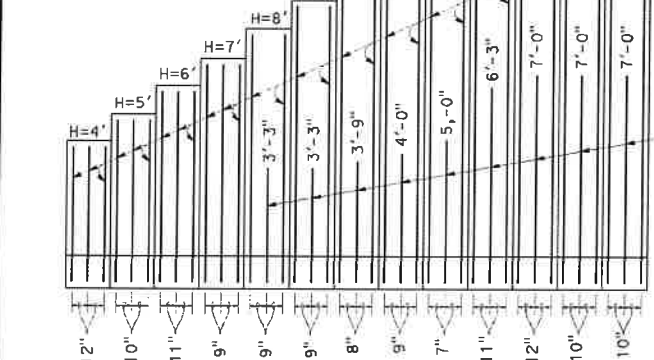


STATE	PROJECT	SHEET NUMBER
CA	FIN/NPS VOSE 500(5) & 918(1) Southside Dr & Bridalveil	T7

COUNTY ROUTE FOOT MILES SHEET TOTAL
 TOTAL PROJECT 300 SHEETS
 REGISTERED CIVIL ENGINEER
 October 19, 2018
 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.



The length of short "c" bars in the figure is from top of footing to upper end of short "c" bars.

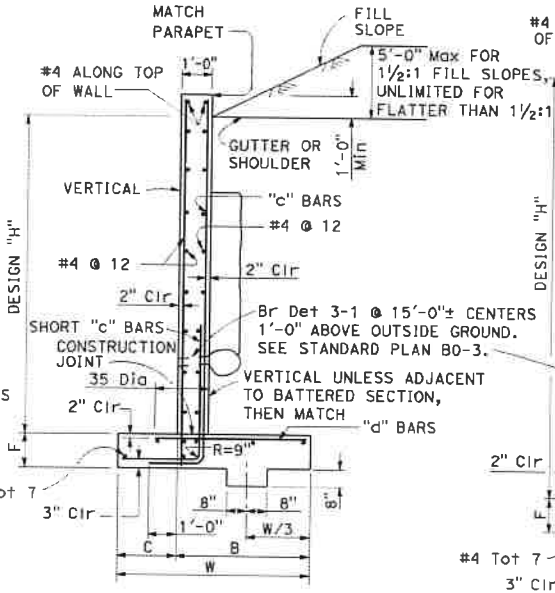


REINFORCED CONCRETE WINGWALLS

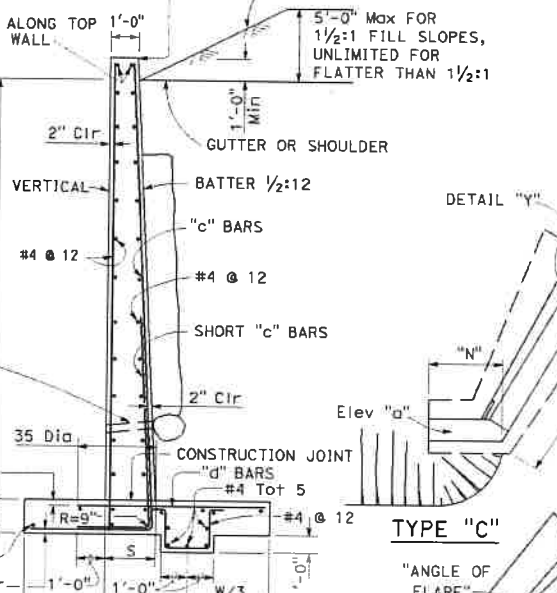
"H"	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'
W	5'-7"	6'-2"	6'-8"	7'-1"	7'-6"	7'-10"	8'-3"	8'-8"	9'-2"	9'-7"	10'-2"	10'-6"	11'-1"
C	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-8"	2'-10"	3'-1"	3'-4"	3'-6"	3'-8"
B	4'-2"	4'-7"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	6'-4"	6'-6"	6'-10"	7'-0"	7'-5"
F	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-3"	1'-5"	1'-5"	1'-6"	1'-6"	1'-8"
BATTER	None												
S	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6 1/2"	1'-7"	1'-7 1/2"	1'-8"
"c" BARS	#4@12	#4@10	#5@11	#5@9	#6@9	#7@9	#7@8	#8@9	#7@7	#8@11	#9@12	#10@10	#10@10
"d" BARS	#5@12	#5@10	#6@11	#6@9	#6@9	#6@8	#7@9	#6@7	#7@11	#8@12	#8@10	#9@10	#9@10
* Conc CY/LF	0.46	0.52	0.58	0.64	0.69	0.74	0.80	0.88	1.00	1.25	1.37	1.45	1.61
* Reinf LB/LF	26	32	41	50	59	70	81	95	102	112	120	156	171
** CASE I (ksf), B' (ft)	3.75, 2.24	3.66, 2.69	3.59, 3.11	3.56, 3.49	3.52, 3.89	3.52, 4.21	3.69, 4.46	3.77, 4.77	3.89, 5.17	3.92, 5.61	3.92, 6.18	4.04, 6.40	4.13, 6.95
** CASE II (ksf), B' (ft)	1.16, 5.58	1.33, 6.13	1.51, 6.55	1.69, 6.86	1.88, 7.16	2.08, 7.33	2.29, 7.60	2.50, 7.86	2.77, 8.14	2.97, 8.47	3.18, 8.93	3.41, 9.05	3.70, 9.43
** CASE III (ksf), B' (ft)	1.26, 5.46	1.36, 5.97	1.49, 6.37	1.64, 6.66	1.79, 6.93	1.95, 7.08	2.11, 7.33	2.28, 7.55	2.50, 7.84	2.66, 8.12	2.81, 8.59	3.00, 8.69	3.22, 9.10

B' = B - (2) eccentricity, B' is the effective footing width.
 * Quantities include 1'-0" extension above the design "H" limit.
 ** Soil bearing pressure shown in the table is the equivalent uniform pressure per AASHTO LRFD - 11.6.3.2

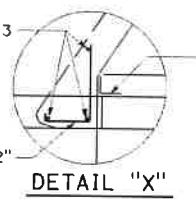
NOTES:
 Unit Stresses: $f'c=3,600$ psi, $f_y=60,000$ psi
 Earth density: 120 pcf
 Equivalent fluid pressure: 36 pcf
 Elevations, length and angle of flare of wings may be varied by the Engineer to suit conditions encountered in the field.
 Dimensions "H", "L", "M", "N", Elevation "a" and "Angle of flare" (as applicable) are shown on the plans.
 Wall height may be exceeded by 6" before going to next greater "H".
 Eliminate cutoff wall if adjacent channel is paved and skew is 20° maximum.
 For wall offset values, see Standard Plan B3-5.



TYPICAL SECTION
H=4' THRU 12'

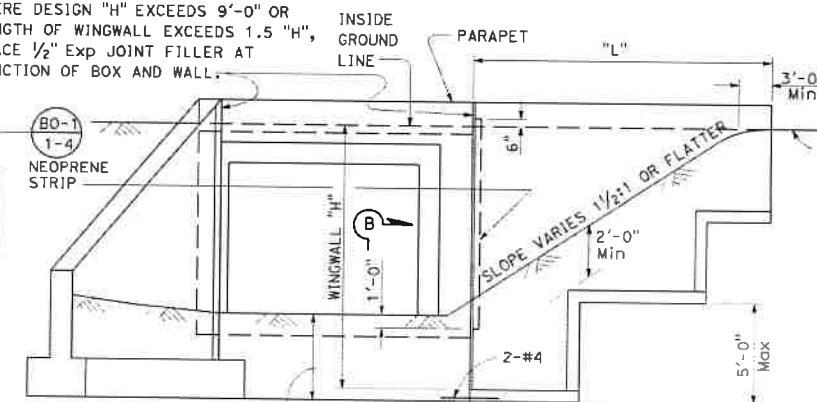


TYPICAL SECTION
H=13' THRU 16'



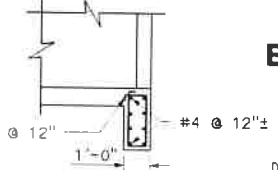
DETAIL "X"

WHERE DESIGN "H" EXCEEDS 9'-0" OR LENGTH OF WINGWALL EXCEEDS 1.5 "H", PLACE 1/2" Exp JOINT FILLER AT JUNCTION OF BOX AND WALL.



END ELEVATION
TYPE "A"

STRAIGHT WINGWALLS

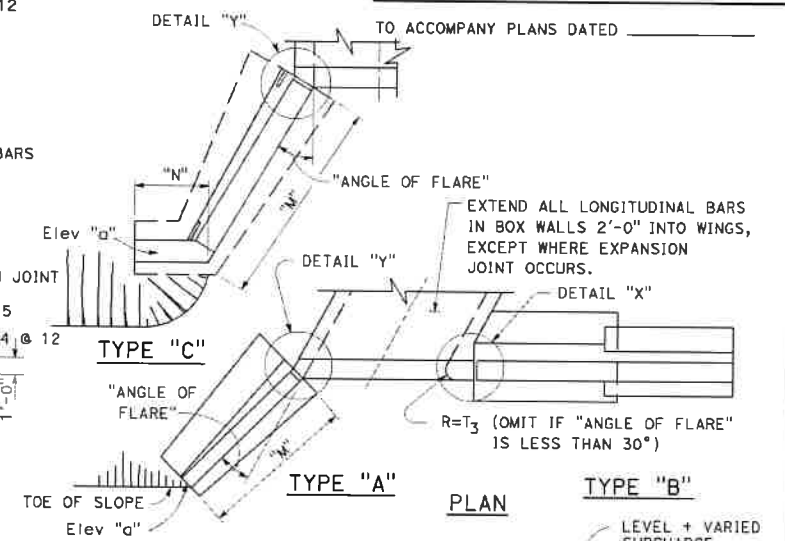


SECTION B-B

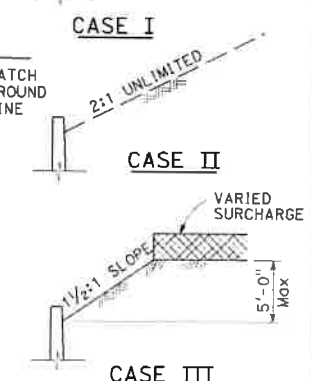
**BOX CULVERT WINGWALLS
TYPES A, B AND C**

NO SCALE
RSP D84 DATED OCTOBER 19, 2018 SUPERSEDES STANDARD PLAN D84 DATED MAY 31, 2018 - PAGE 226 OF THE STANDARD PLANS BOOK DATED 2018.

REVISED STANDARD PLAN RSP D84



DETAIL "Y" TO ACCOMPANY PLANS DATED _____
DETAIL "Z" TO ACCOMPANY PLANS DATED _____



DETAIL OF DESIGN
LOADING CASES

2018 REVISED STANDARD PLAN RSP D84

REGISTERED PROFESSIONAL ENGINEER
 GARY A. FROMM
 No. 050864
 Exp. 9/30/21
 CIVIL
 STATE OF CALIFORNIA

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION
 U.S. CUSTOMARY SPECIAL
**BOX CULVERT WINGWALLS
TYPES A, B AND C**
 SPECIAL
 602-C

NO SCALE

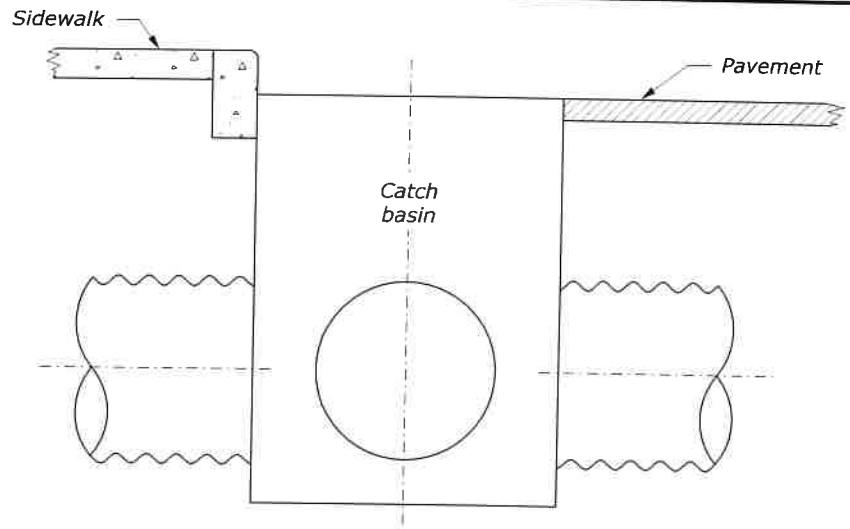
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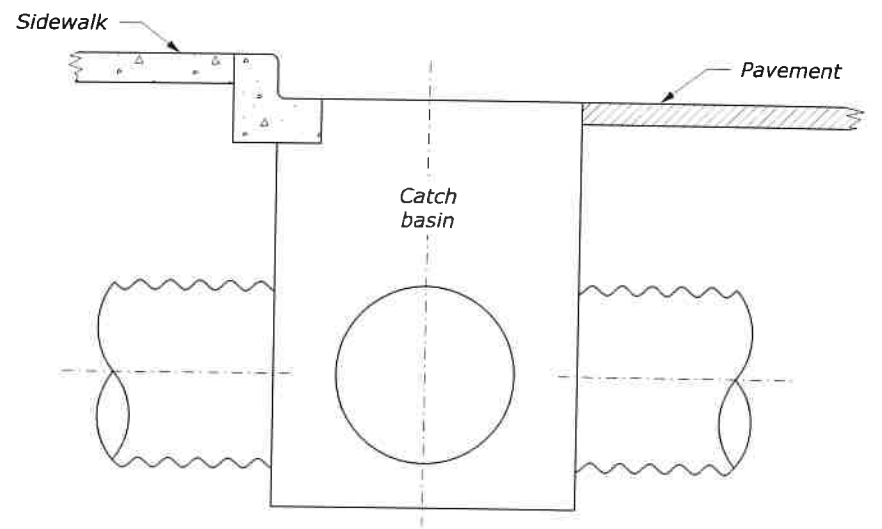
4/11/13 PM

5/4/2010

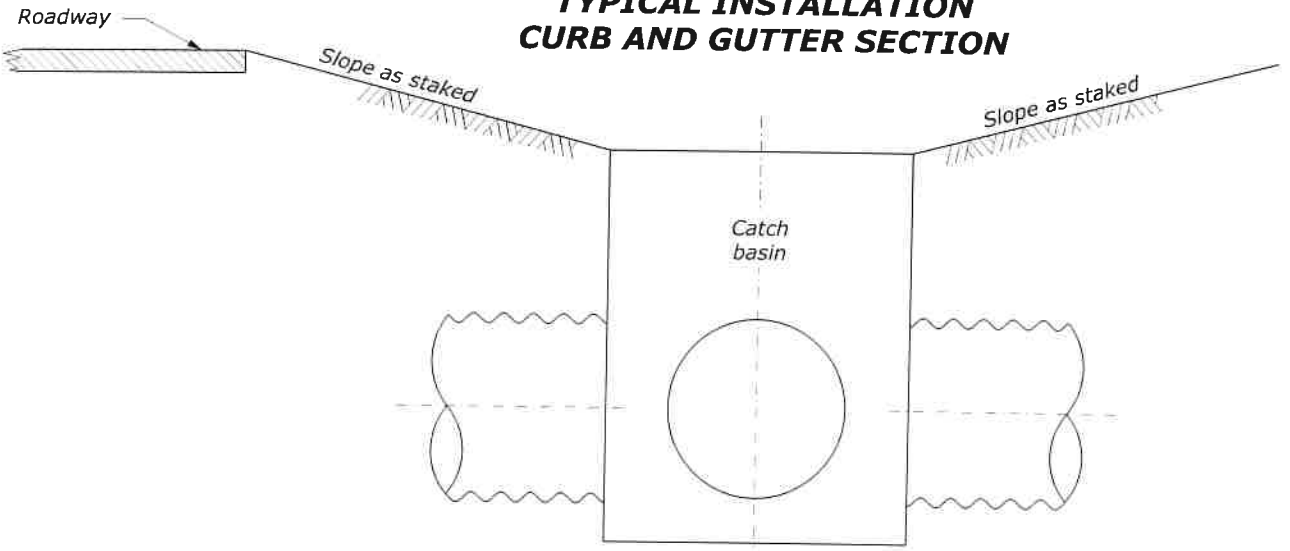
STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	T8



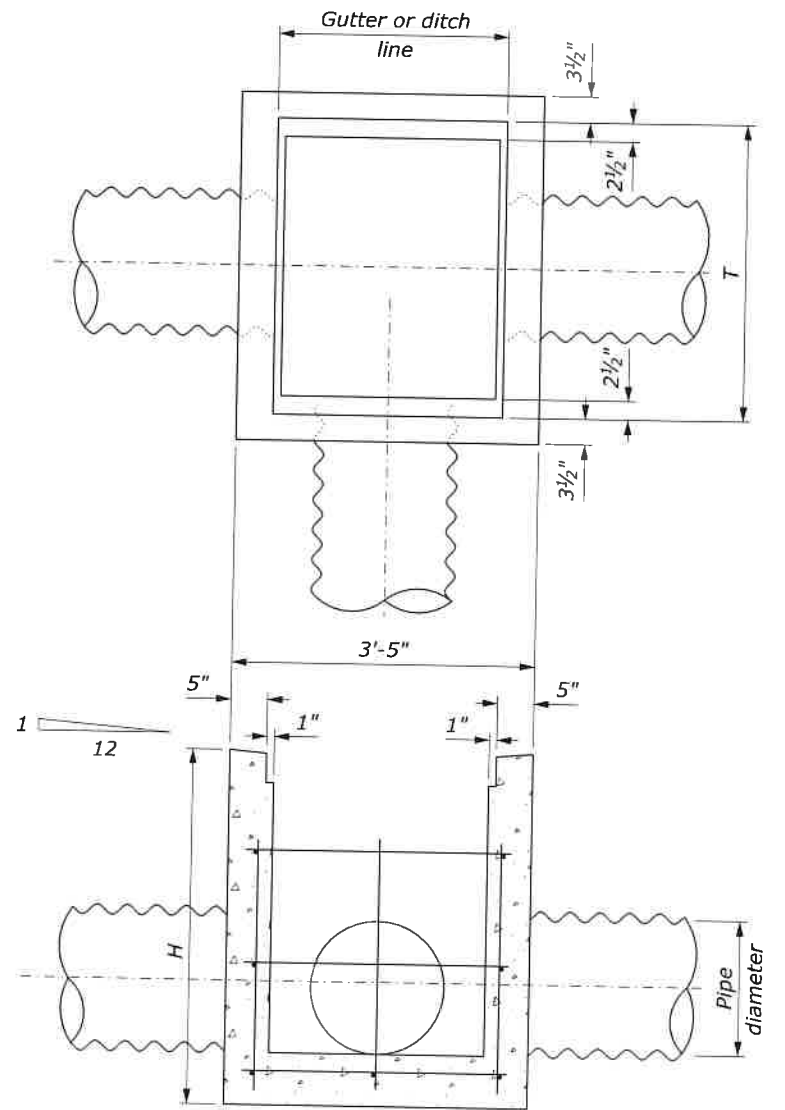
TYPICAL INSTALLATION CURB SECTION



TYPICAL INSTALLATION CURB AND GUTTER SECTION



TYPICAL INSTALLATION DITCH SECTION



INLET DETAIL

NOTE:

1. CONCRETE: Chamfer exposed edges 3/4" unless otherwise shown. Give all concrete surfaces a Class 1 finish.
2. The minimum concrete cover to the face of any bar is 2" unless otherwise shown.
3. See Standard 604-2 for Type A Frame and Grate and Standard 604-3 for Type B Frame and Grate.

PIPE SIZE DIAMETER	DEPTH H	FRAME AND GRATE T	
		TYPE A	TYPE B
12"	3'-0"	2'-6"	2'-6"
18"	3'-0"	2'-6"	2'-6"
24"	4'-0"	3'-3"	3'-4"
30"	4'-0"	4'-0"	4'-2"
36"	4'-6"	4'-9"	5'-0"
42"	5'-0"	5'-6"	5'-5"
48"	5'-6"	6'-3"	6'-3"

PIPE SIZE DIAMETER INCHES	ESTIMATED QUANTITIES			
	CONCRETE CUYD	REINFORCING STEEL LB	FRAME AND GRATE LB	
			TYPE A	TYPE B
12	0.7	54	215	238
18	0.7	54	215	238
24	1.1	81	271	314
30	1.2	92	327	390
36	1.5	101	383	466
42	1.8	131	439	504
48	2.2	151	495	580



NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY OFFICE

U.S. CUSTOMARY STANDARD

CATCH BASIN TYPE 1

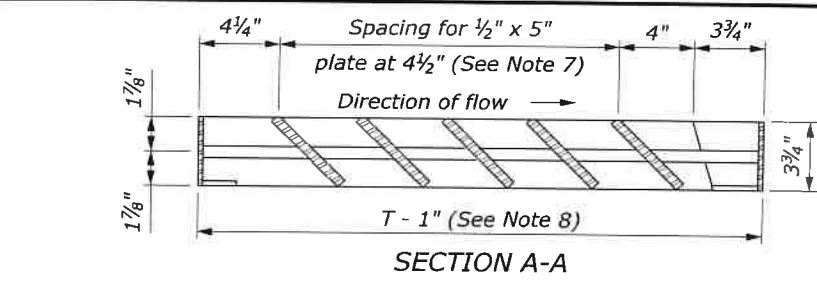
STANDARD APPROVED FOR USE 6/2005

REVISID: STANDARD 604-1

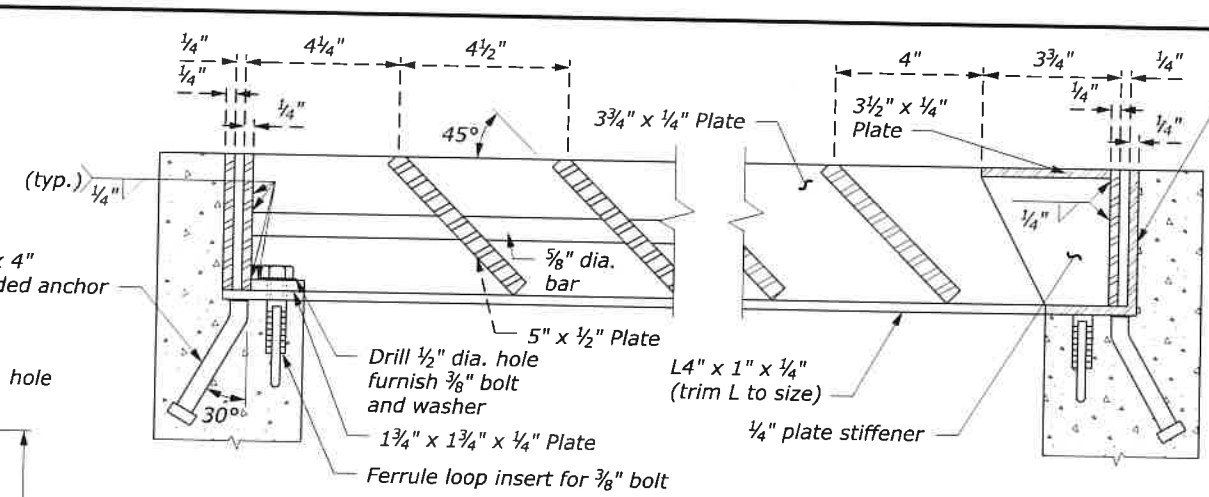
User: Jacobs.CADD

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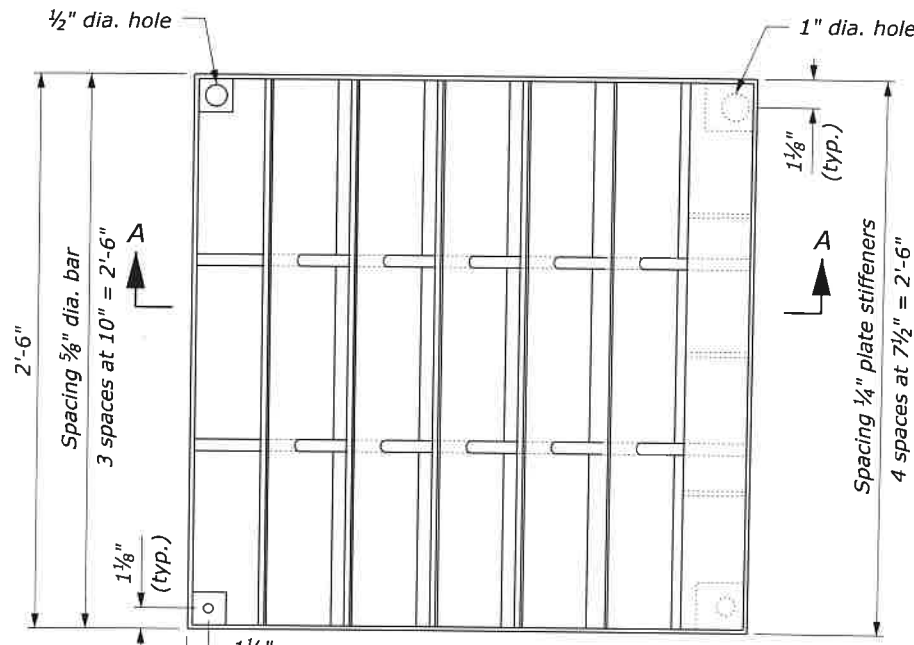
STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	T9



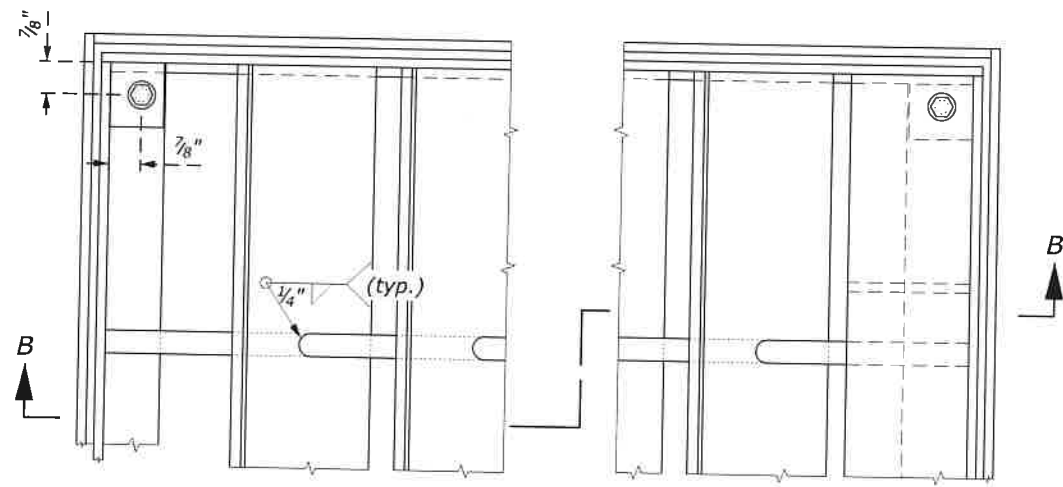
SECTION A-A



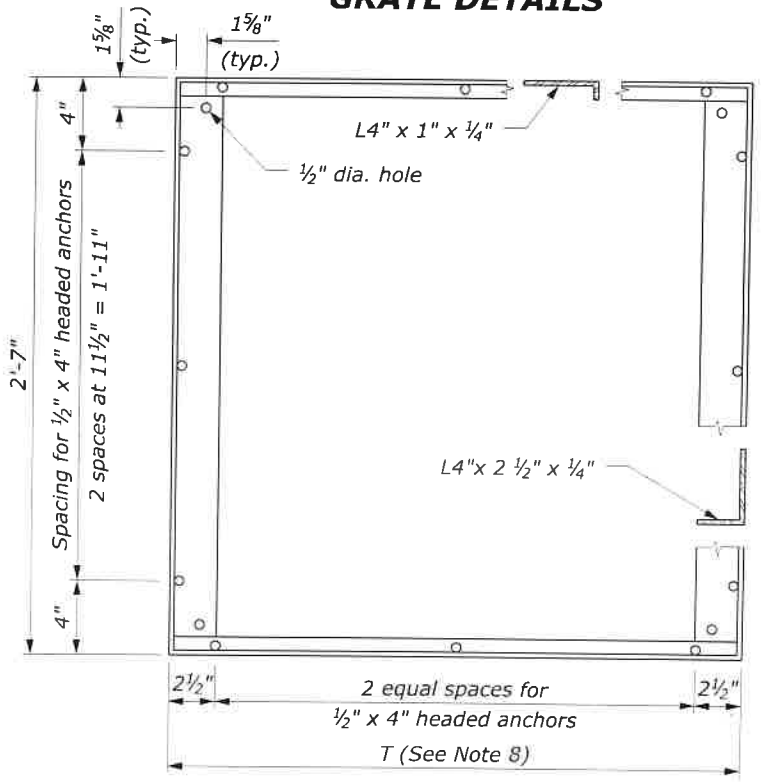
SECTION B-B



GRATE DETAILS



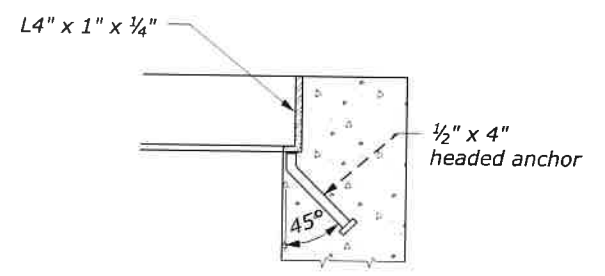
FRAME AND GRATE DETAILS



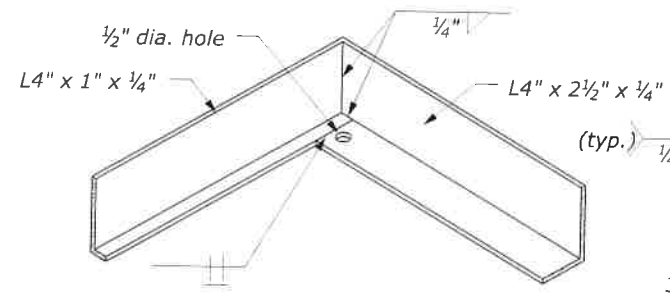
FRAME DETAIL

NOTE:

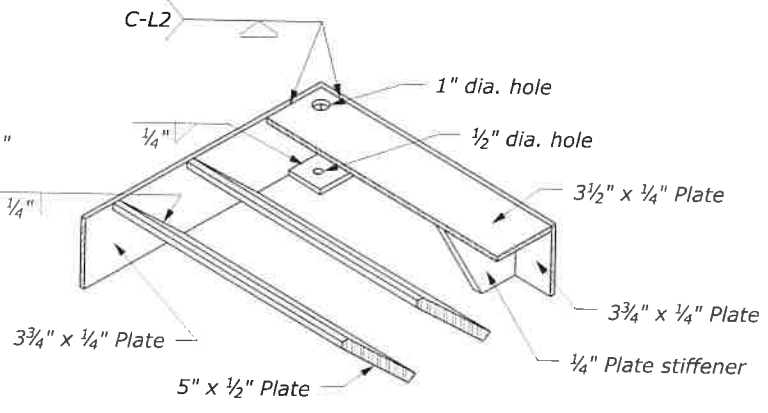
1. STRUCTURAL STEEL: AASHTO M 183 (ASTM A 36M).
2. BOLTS & WASHERS: ASTM A 307, Galvanized.
3. THREADED CONCRETE ANCHORS: Ferrule loop inserts for 3/8" bolt or approved equal.
4. HEADED CONCRETE ANCHORS: Weld to frame with a full penetration butt weld.
5. WELDING: Weld in conformance with the Standard Specifications. Unless otherwise indicated seal weld all joints with a minimum size fillet weld, based on material thickness. Grind smooth all contact surfaces. FINISH: Galvanized after fabrication.
6. Estimated weight, frame and grate (2'-6" x 2'-6") 215 lbs. Increase or decrease weight by 28 lbs for each 4 1/2" increment.
7. Number of plates varies according to pipe diameter. See Standard 604-1.
8. See Standard 604-1 for dimensions of T.



FRAME ANCHOR DETAIL



FRAME CORNER DETAIL



GRATE CORNER DETAIL

NO SCALE



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY OFFICE	
U.S. CUSTOMARY STANDARD METAL FRAME AND GRATE TYPE A	
STANDARD APPROVED FOR USE 6/2005	STANDARD
REVISED:	604-2

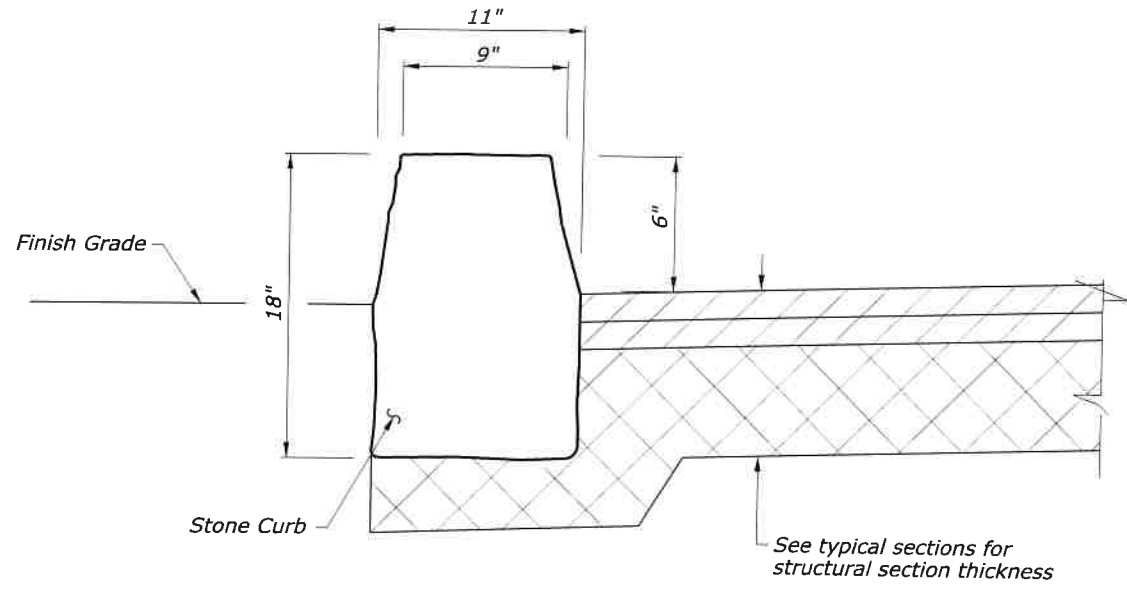
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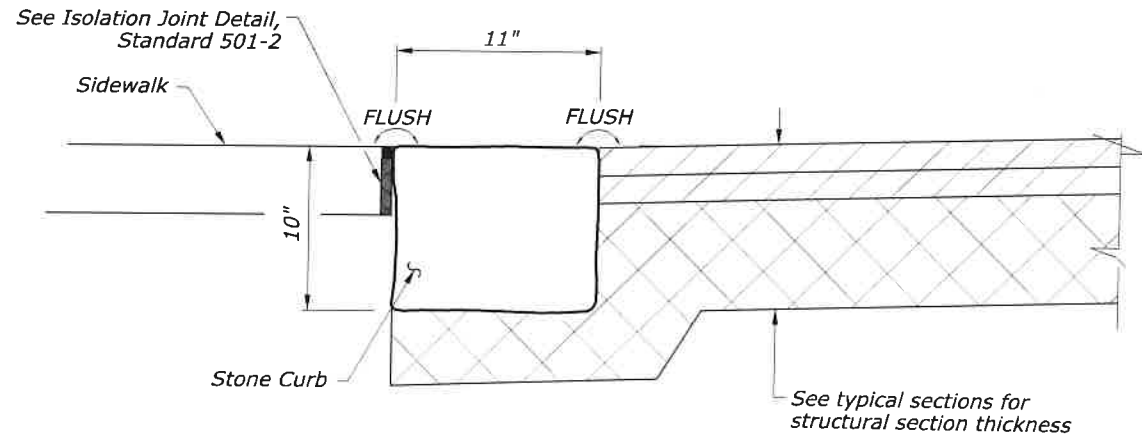
4/8/10 PM

5/4/2010

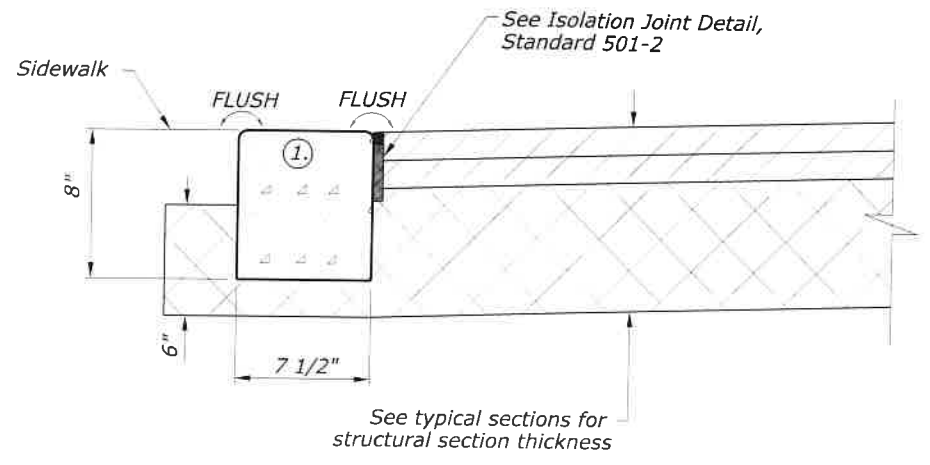
STATE	PROJECT	SHEET NUMBER
CA	FINP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	T11



CURB, STONE, TYPE 1, 18-INCH DEPTH (SOUTHSIDE DRIVE PEDESTRIAN PATH)



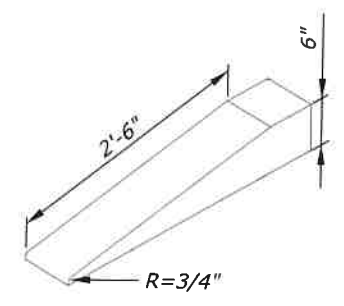
CURB, STONE, TYPE 1, 10-INCH DEPTH (FLUSH)



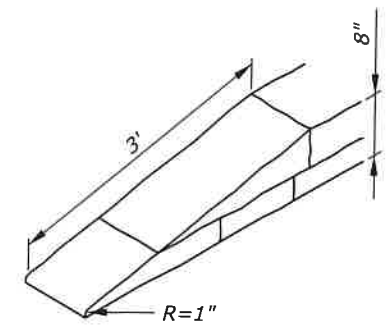
CURB, CONCRETE, 8-INCH DEPTH (FLUSH)

NOTE:

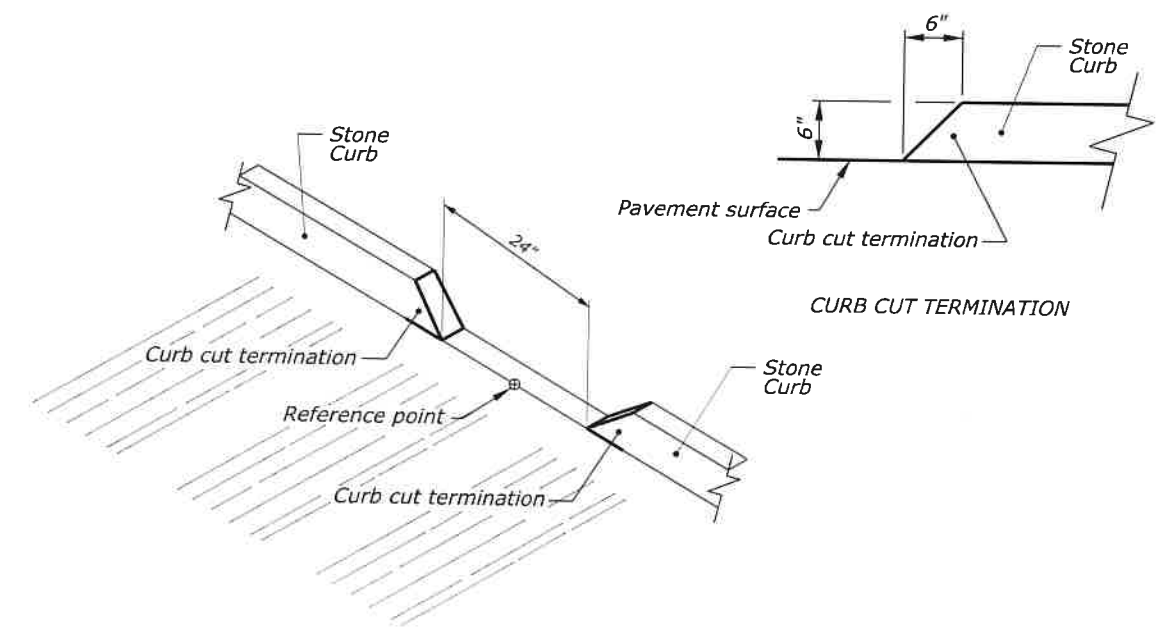
- ① Intergrally color concrete per Subsection 601.04.
- ② Measure Transition Section As Raised Curb



CONCRETE CURB TRANSITION ②



STONE CURB TRANSITION ②



Legend:

- Asphalt Concrete Pavement
- Roadway Aggregate, Method 2

CURB STONE CUT DETAIL



NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL

CURB DETAILS

SPECIAL
609-A

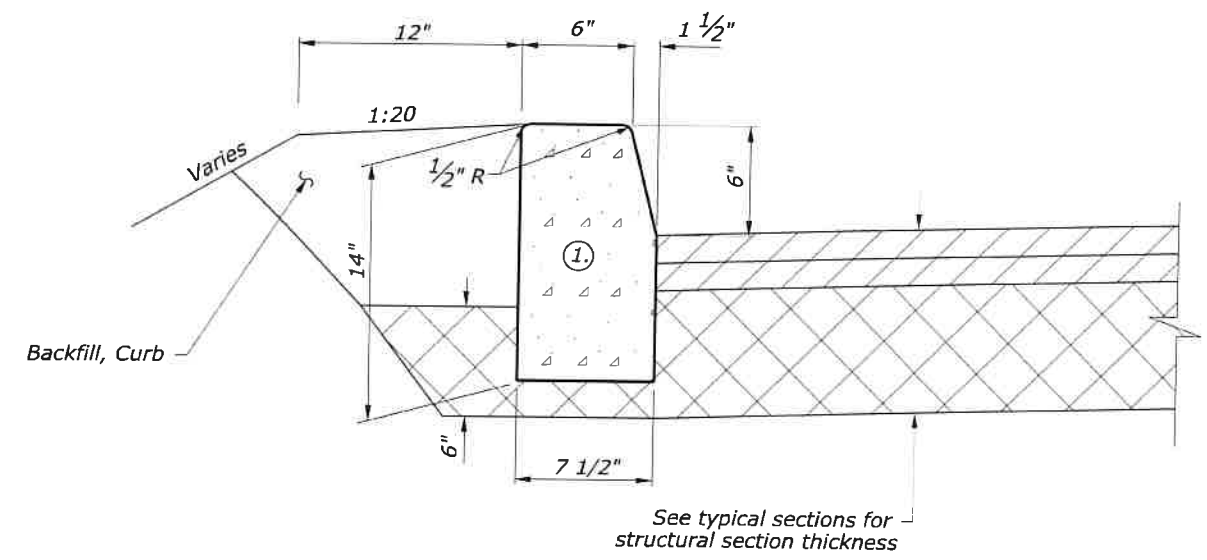
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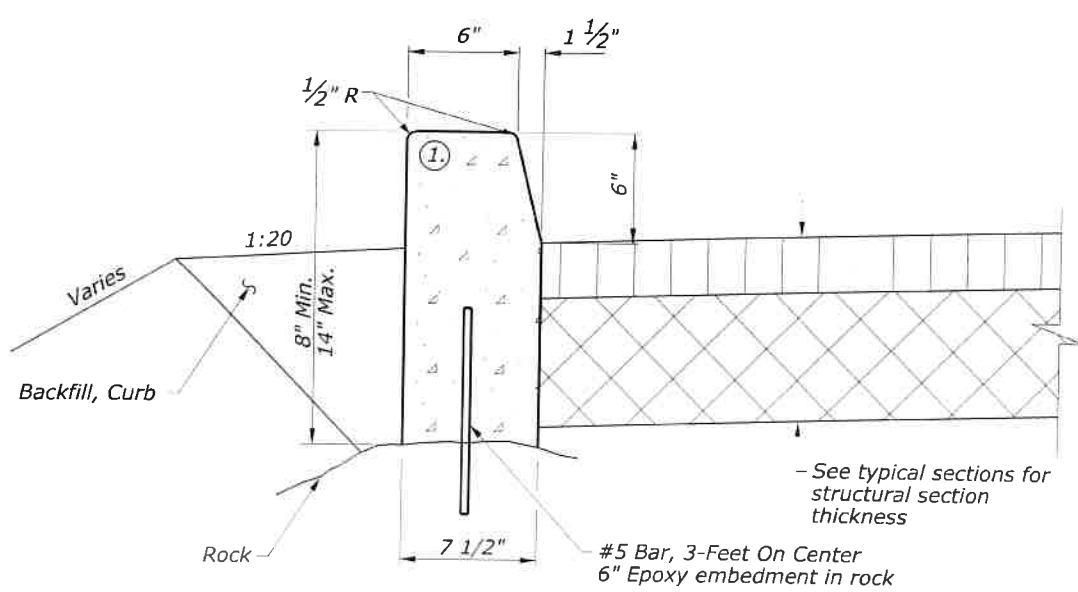
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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	T12



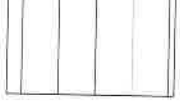


CURB, CONCRETE, 14-INCH DEPTH

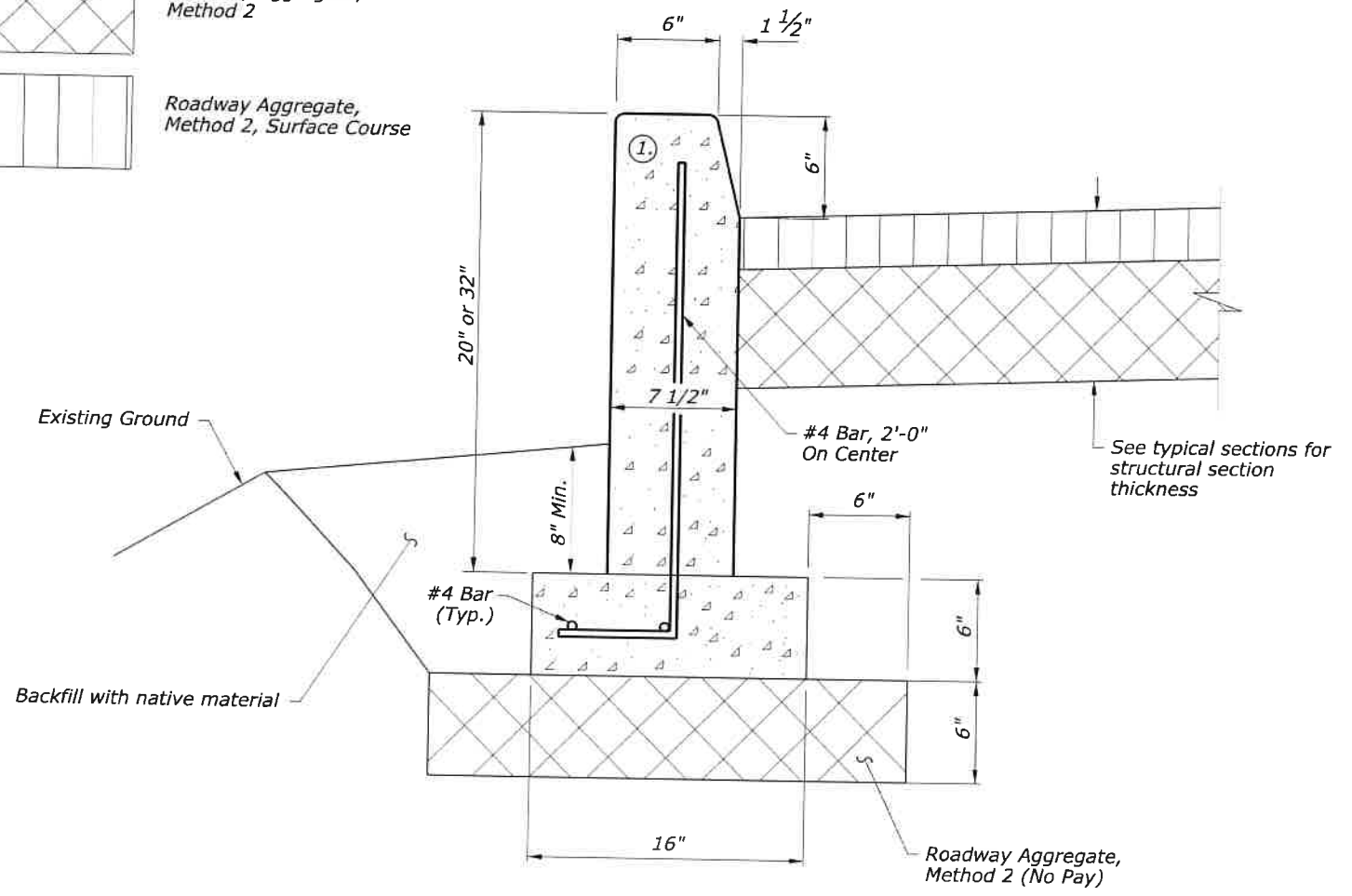


CURB, CONCRETE, 14-INCH DEPTH (DOWELED)
LOCATIONS TO BE DETERMINED IN FIELD

Legend:

-  Asphalt Concrete Pavement
-  Roadway Aggregate, Method 2
-  Roadway Aggregate, Method 2, Surface Course

- NOTE:**
- ① Intergally color concrete per Subsection 601.04.
 - ② Measure transition sections as raised curb.



CURB, CONCRETE (20-INCH DEPTH, REINFORCED)
CURB, CONCRETE (32-INCH DEPTH, REINFORCED)

SOUTHSIDE DRIVE
 1055+00 TO 1056+50, RT - 20-INCH DEPTH
 1058+00 TO 1061+00, RT - 20-INCH DEPTH
 1061+00 TO 1062+00, RT - 32-INCH DEPTH
 1062+00 TO 1062+25, RT - 20-INCH DEPTH



NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL

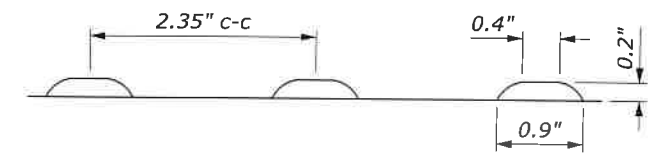
CURB DETAILS

SPECIAL
609-B

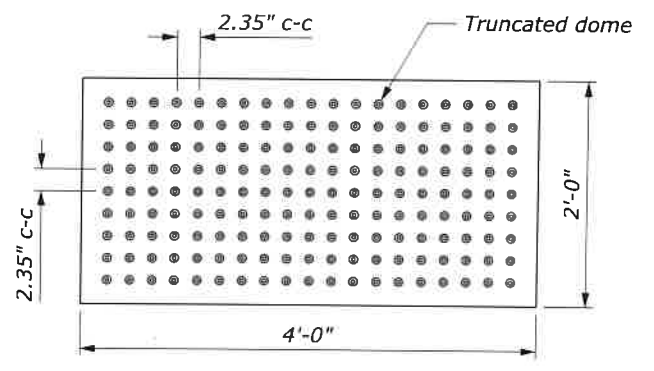
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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	T14

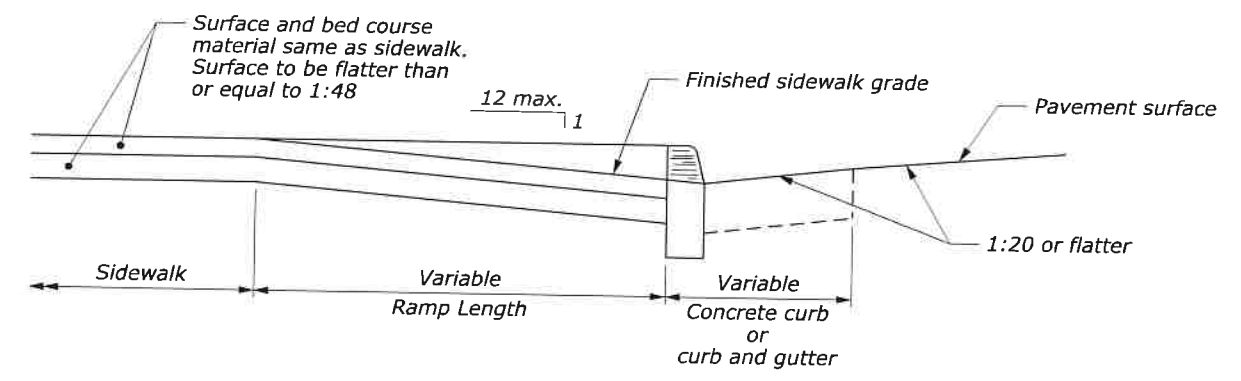


SECTION TRUNCATED DOME



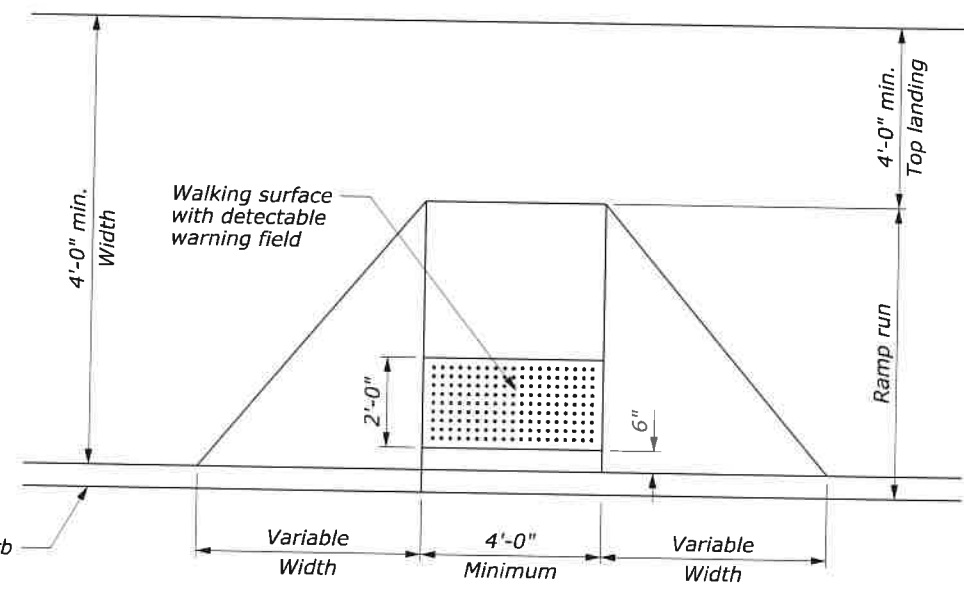
PLAN

DETECTABLE WARNING FIELD WITH TRUNCATED DOMES

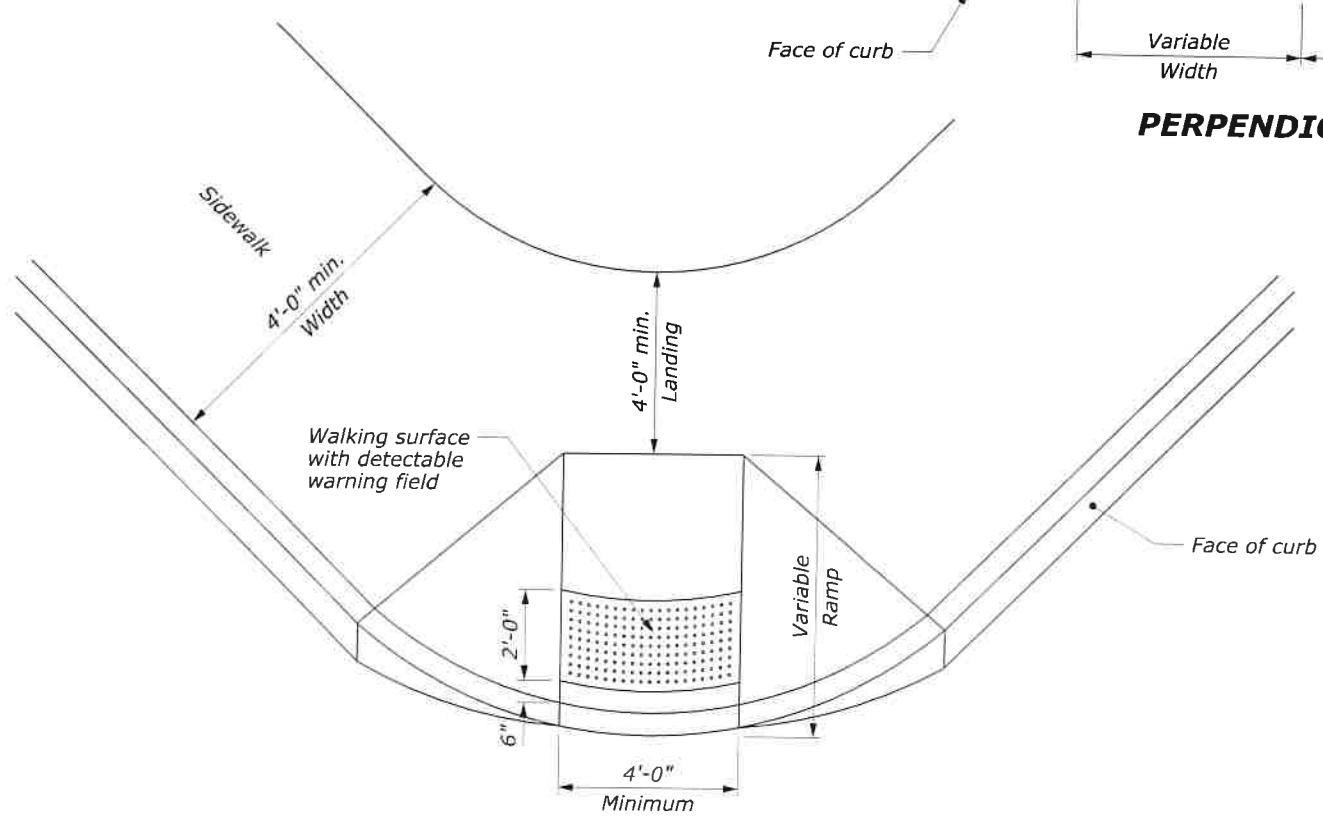


RAMP - TYPICAL SECTION

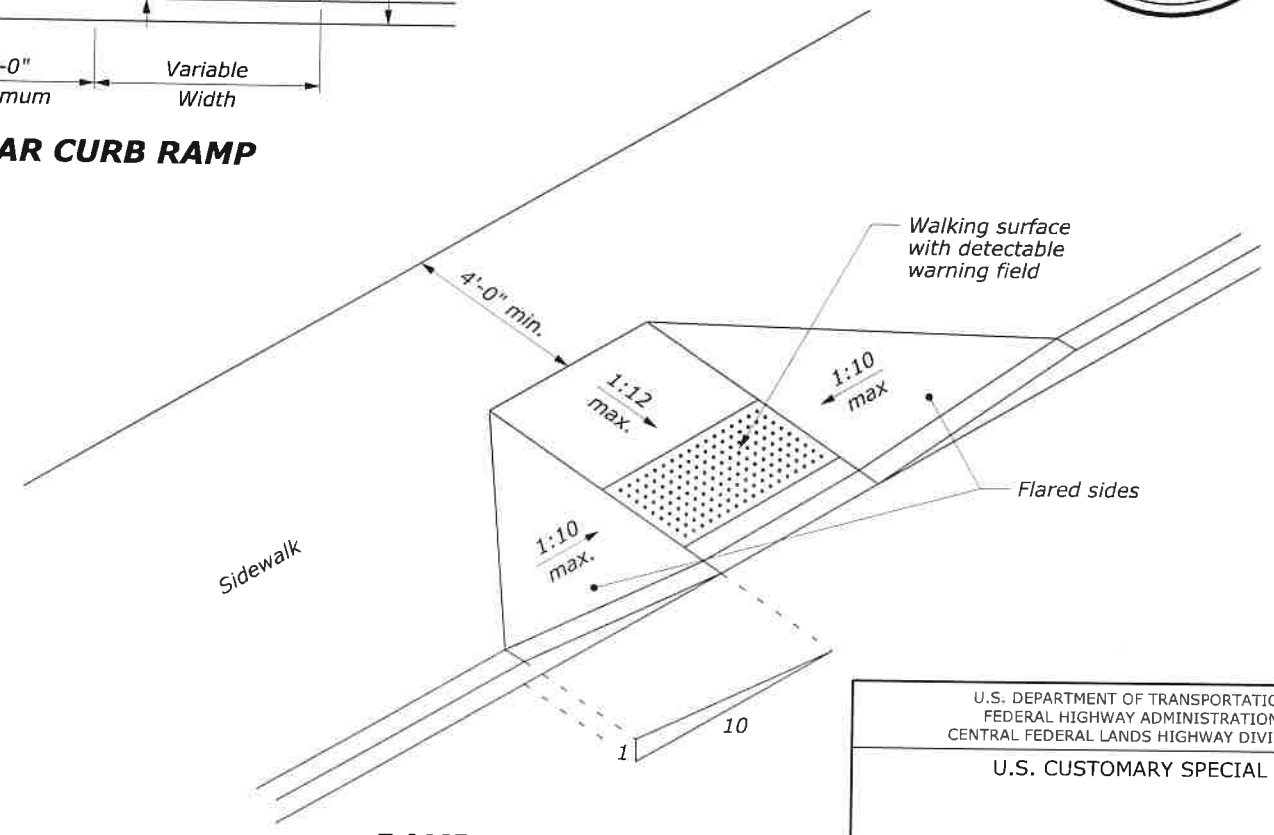
- NOTE:**
1. The maximum cross slopes of ramps must not exceed 2% in any direction.
 2. Use a coarse broom finish running perpendicular to the slope to create a slip resistant surface on concrete ramp surfaces, exclusive of the detectable warning fields.
 3. Construct curb ramp perpendicular to the curb. Avoid skewing the ramp face.
 4. Construct ramp transitions between walks, gutters, or streets that are flush and free of abrupt vertical changes not to exceed 2.5 inches.
 5. Locate drainage inlets and manholes outside of ramp walking surfaces or landings.



PERPENDICULAR CURB RAMP



DIAGONAL CURB RAMP



RAMP - ISOMETRIC

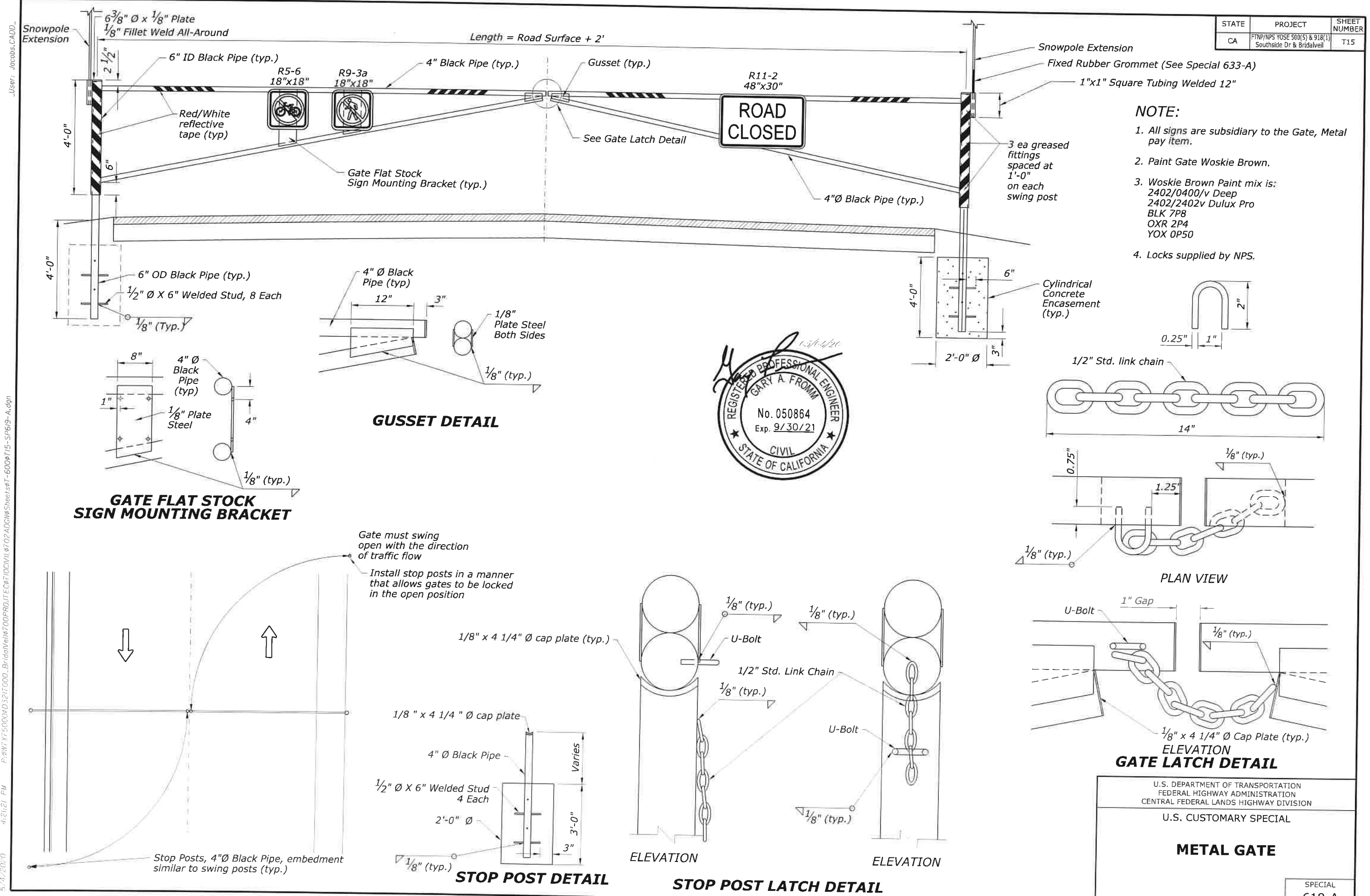


U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

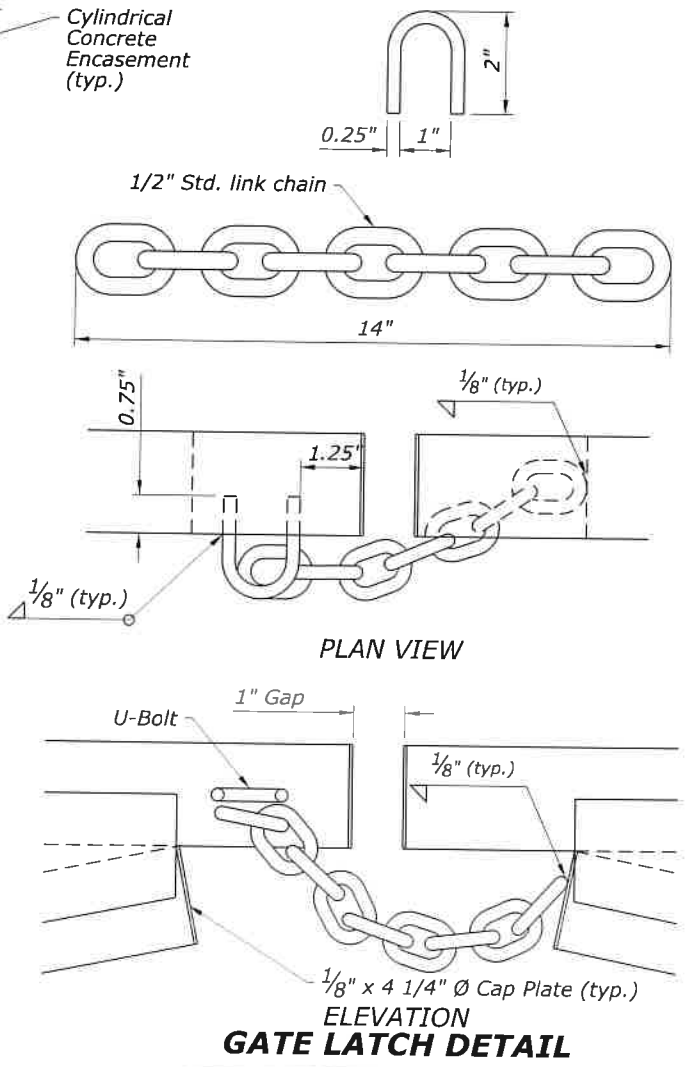
U.S. CUSTOMARY SPECIAL

SPECIAL
615-1

STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	T15



- NOTE:**
- All signs are subsidiary to the Gate, Metal pay item.
 - Paint Gate Woskie Brown.
 - Woskie Brown Paint mix is:
2402/0400/v Deep
2402/2402v Dulux Pro
BLK 7P8
OXR 2P4
YOX 0P50
 - Locks supplied by NPS.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

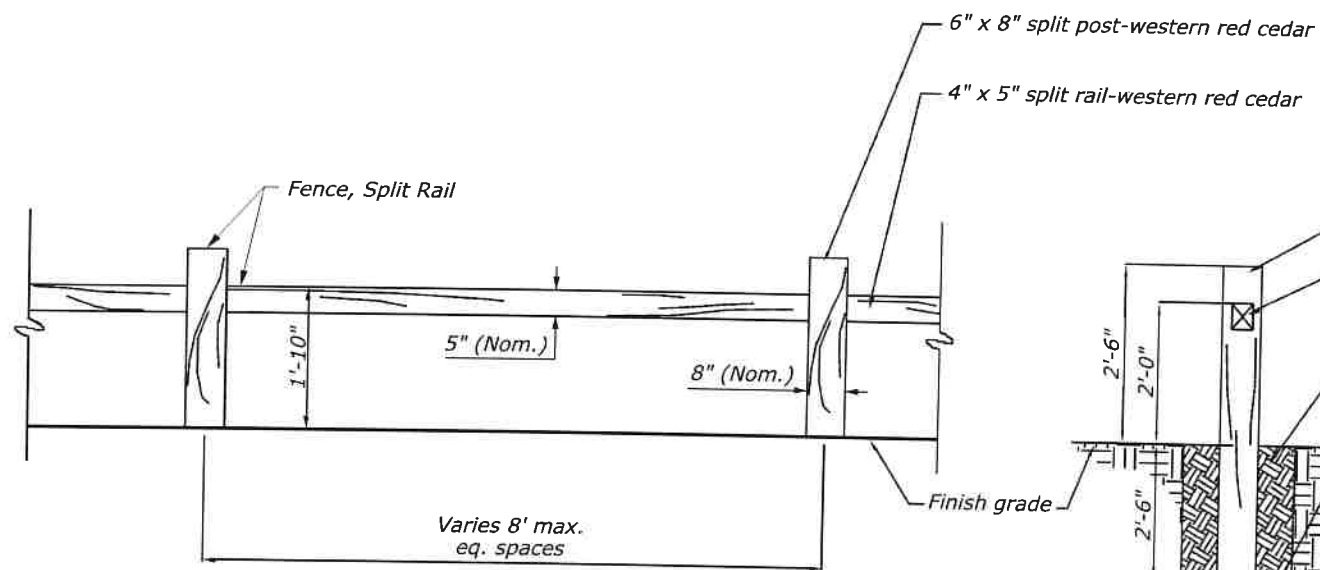
U.S. CUSTOMARY SPECIAL

METAL GATE

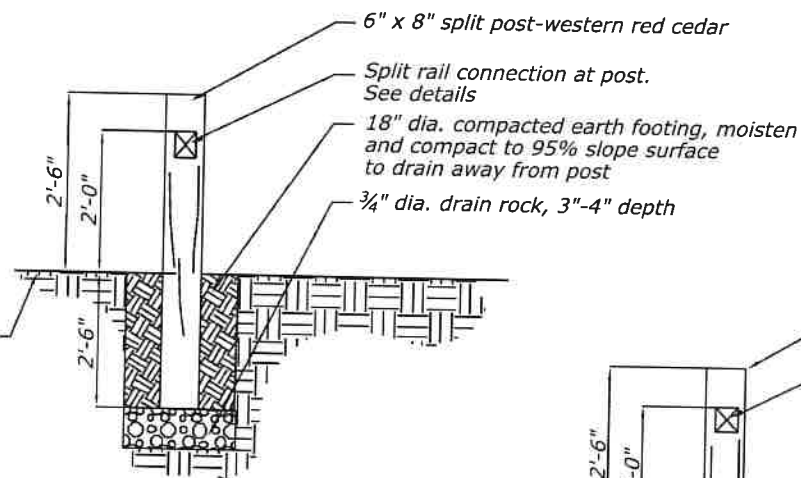
SPECIAL
619-A

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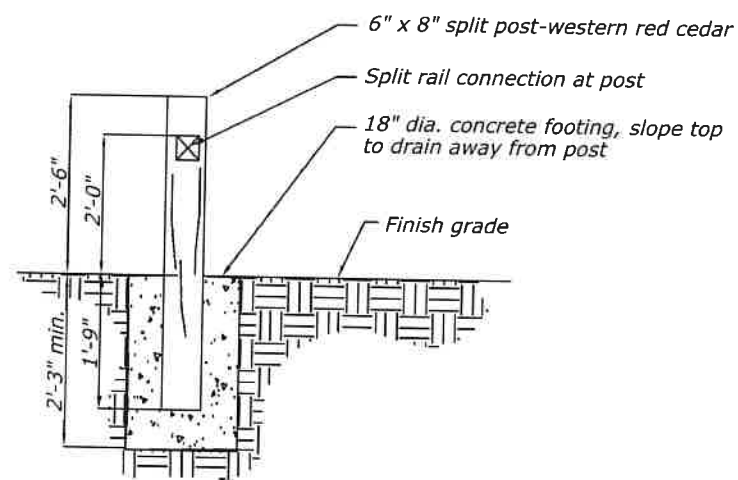
STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	T16



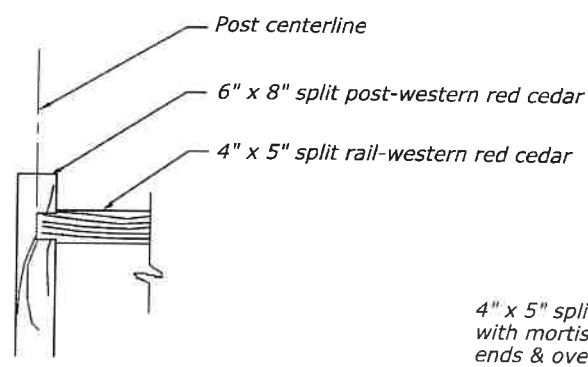
SPLIT RAIL FENCE



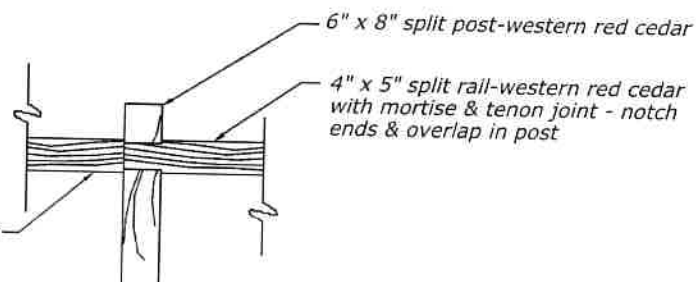
MID SPAN POST



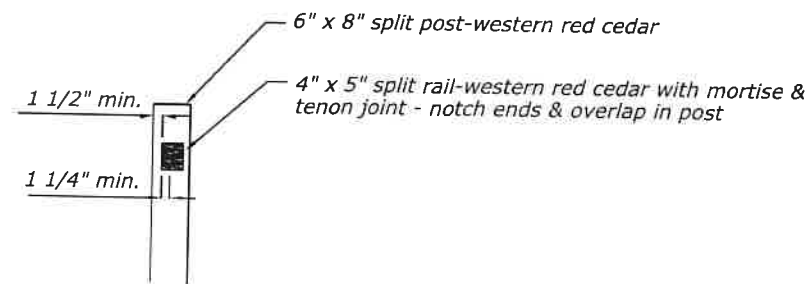
END & CORNER POST



END POST



MID SPAN POST



SPLIT RAIL CONNECTION AT POST



NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL

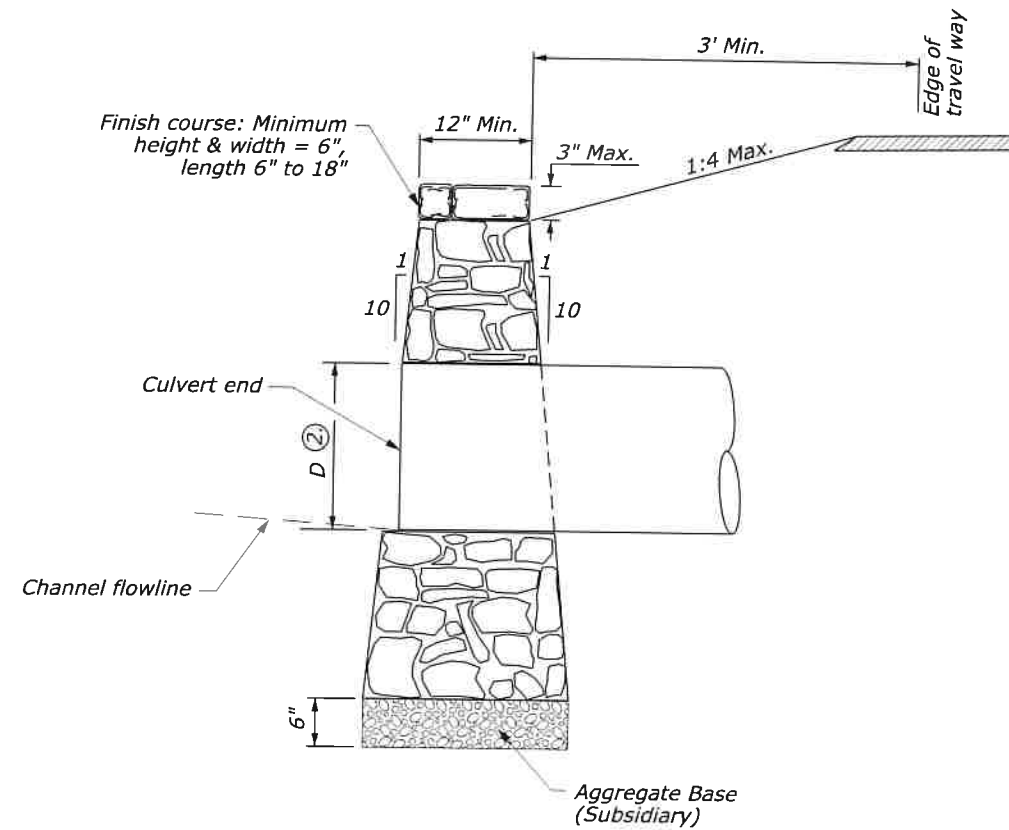
FENCE, SPLIT RAIL

SPECIAL
619-B

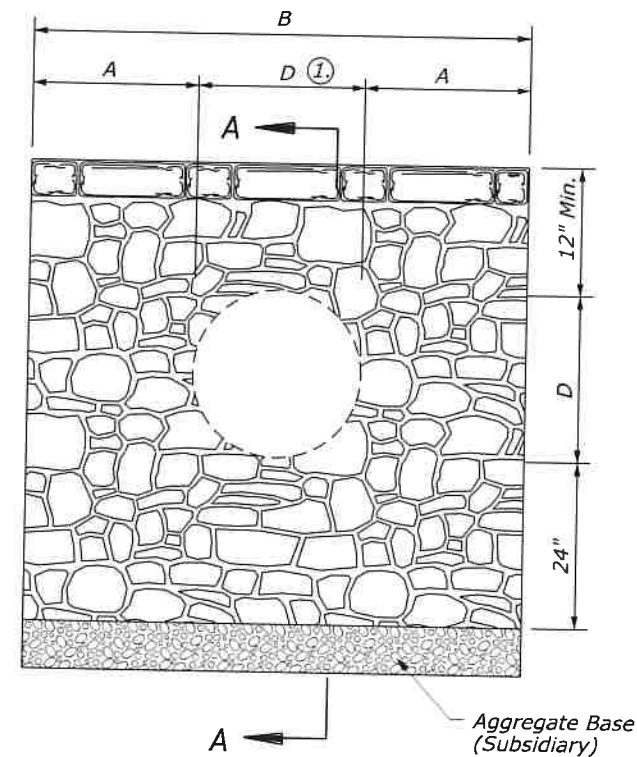
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NOTE:

- ① D = circular diameter or span of elliptical pipe in horizontal dimension.
- ② D = circular diameter or rise of elliptical pipe in vertical dimension.
3. When multiple pipes are constructed in one headwall, the distance between pipes is circular or equivalent diameter.
4. Orient headwalls parallel to roadway centerline unless otherwise directed by the CO. Lengthen headwalls as directed by CO for skewed pipes.
5. If headwall is associated with the replacement of a pipe of the same size, reconstruct the headwall to match existing headwall dimensions.
6. Construct a sample wall prior to performing production work. See Section 620 of the SCRs for additional requirements and information.



SECTION A - A



ELEVATION VIEW

HEADWALL DIMENSIONS												
D, PIPE CULVERT DIAMETER OR ELLIPTICAL SPAN (INCHES)												
	18"	24"	30"	36"	42"	48"	2-18"	2-24"	2-30"	2-36"	2-42"	2-48"
A	24	24	30	30	30	30	24	24	30	30	30	30
B	66	72	90	96	102	108	102	120	150	162	174	186



NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL
**STONE MASONRY
HEADWALL FOR
PIPE CULVERTS**

SPECIAL
620-A

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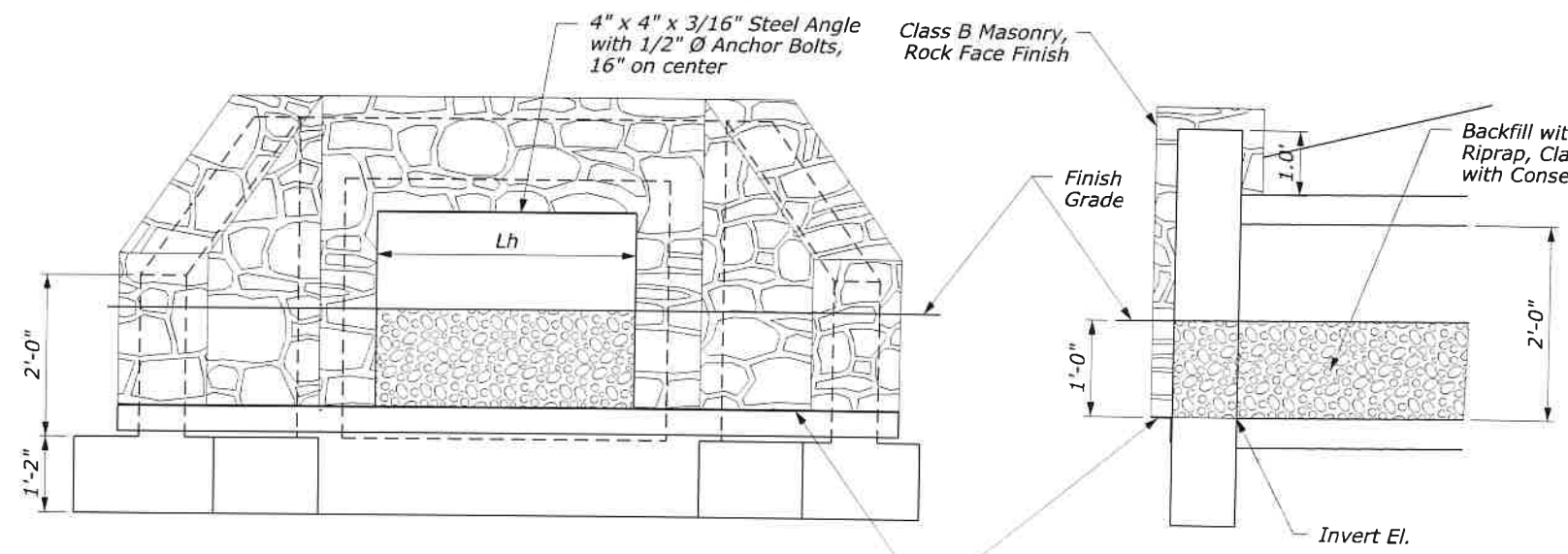
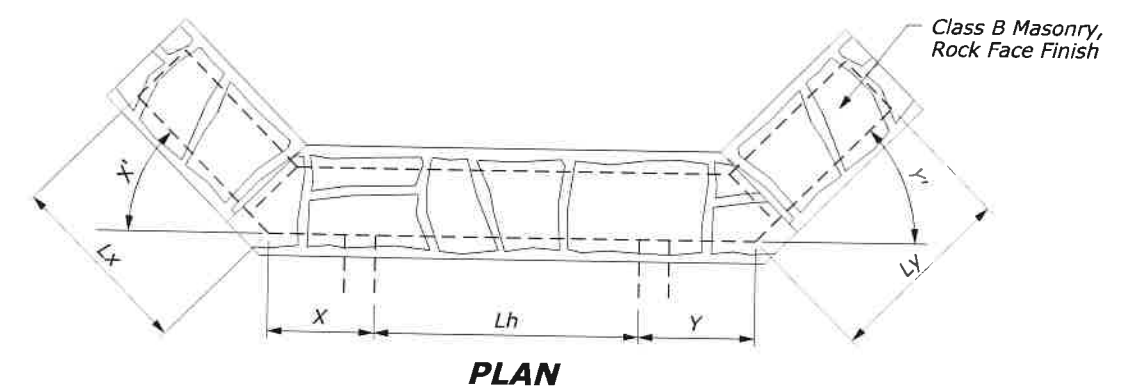
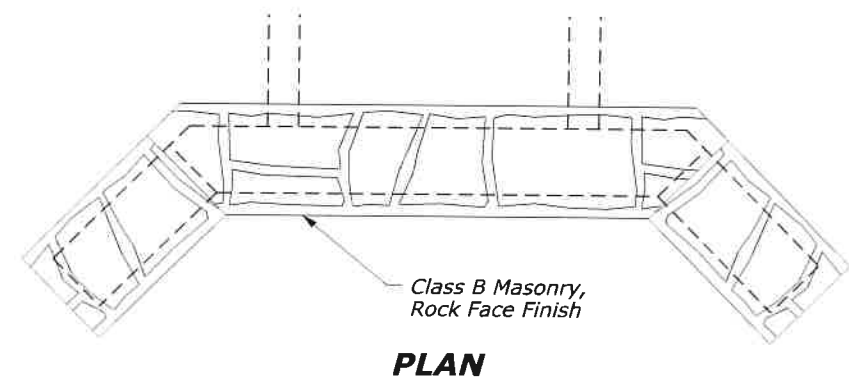
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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	T18

NOTE:

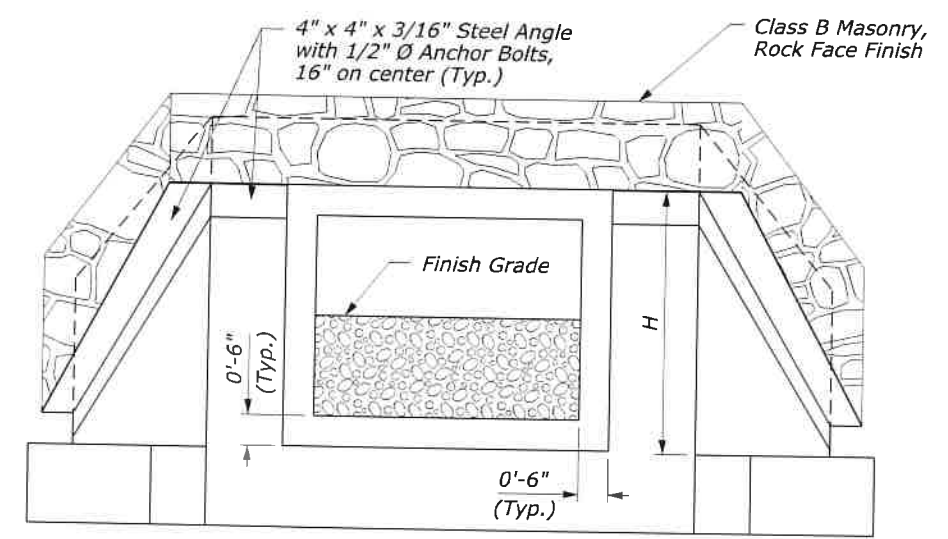
1. See Specials 602-A through 602-C for box culvert & headwall/wingwall requirements
2. Furnish and install dovetail slots and anchors for all vertical surfaces covered by stone masonry.
3. Submit shop drawings to the CO for both dovetail slots/anchors and steel angle assemblies for approval prior to ordering materials.
4. Construct a sample wall prior to performing production work. See Section 620 of the SCRs for additional requirements and information.

CONCRETE (HEADWALL/WINGWALLS), DIMENSIONS										
Culvert	Side	Headwall Skew	Lh (ft)	H (ft)	X (ft)	X'	Lx (ft)	Y (ft)	Y'	Ly (ft)
5	Inlet	25° Lt	4'-4 7/8"	3'-0"	0'-9"	45°	6'-0"	1'-9"	65°	6'-0"
5	Outlet	25° Lt	4'-4 7/8"	3'-0"	1'-3"	85°	5'-0"	1'-6"	45°	7'-0"
6	Intlet	15° Lt	4'-1 3/8"	3'-0"	1'-0"	60°	4'-0"	1'-9"	75°	5'-0"
6	Outlet	35° Rt	4'-10 5/8"	3'-0"	1'-9"	45°	6'-9"	0'-9"	60°	6'-0"



OTHER FACE ELEVATION

SECTION



FILL FACE ELEVATION



NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL
**STONE MASONRY
FACING FOR
BOX CULVERT HEADWALL**

SPECIAL
620-B

User: Jacobus.CADD

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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	T19

Professional Engineer Seal for Gary Wang, No. C58298, Exp. 5-30-18. Date: May 31, 2018.

SYMBOLS:

Ser - service limit state I
 Str - strength limit state I
 Ext - extreme event limit state I
 B' - effective footing width (ft)
 q₀ - net bearing stress (ksf), OG assumed to be FG at toe
 q_o - gross uniform bearing stress (ksf)

DESIGN NOTES:

DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments
 Building Code Requirements for Masonry Structures (TMS 402-08/ACI 530-08/ASCE 5-08)

LS: 240 psf surcharge on level ground surface as limited by Guard Railing location

SEISMIC: k_h = 0.2
k_v = 0.0

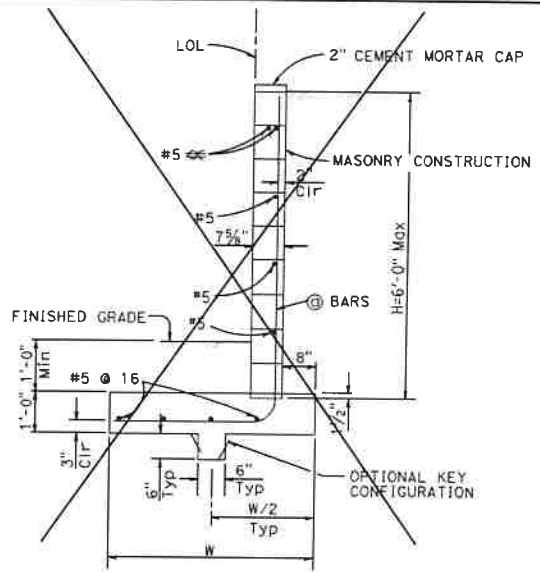
SOIL: φ = 34°
γ = 120 pcf

REINFORCED CONCRETE: f'c = 3,600 psi
fy = 60,000 psi

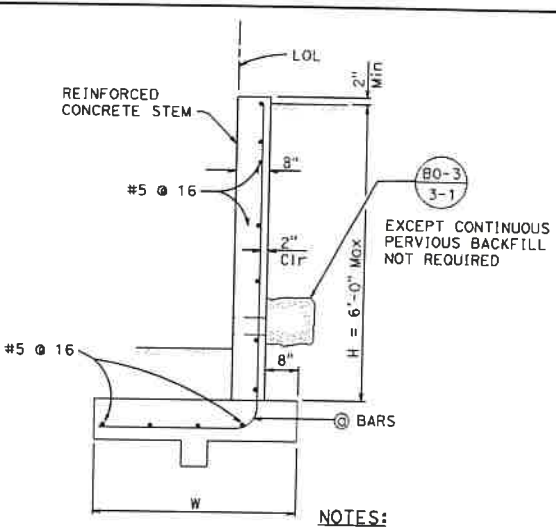
REINFORCED MASONRY: fm' = 1,500 psi
fy = 60,000 psi

LOAD COMBINATIONS AND LIMIT STATES:
 Service I 0 = 1.00DC+1.00EV+1.00EH+1.00LS
 Strength I 0 = αDC+βEV+γEH+1.75LS
 Extreme I 0 = 1.00DC+1.00EV+1.00EH+1.00EOD+1.00EIE

Where:
 O: Force Effects
 α: 1.25 or 0.90, Whichever Controls Design
 β: 1.35 or 1.00, Whichever Controls Design
 γ: 1.50 or 0.90, Whichever Controls Design
 DC: Dead Load of Structure Components
 EH: Horizontal Earth Fill Pressure
 EV: Vertical Earth Pressure from Earth Fill Weight
 LS: Live Load Surcharge
 EOE: Seismic Earth Pressure
 EOD: Soil and Structural and Nonstructural Components Inertia

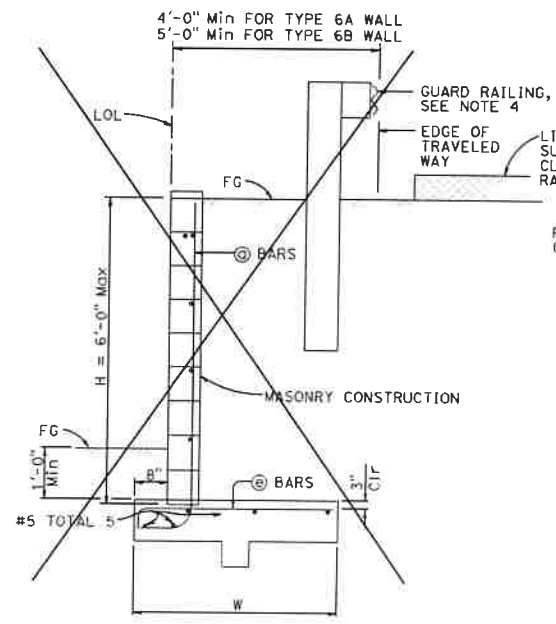


TYPE 6A WALL



NOTES:

- For details not shown at "6B", see "6A", similarly, for details not shown at "6A", see "6B".
- Design loading for both Type "6A" and "6B" is as shown at "6B".
- Type 6 retaining wall shall be limited to use for walls of Design H of 6'-0" or less.
- Where traffic is adjacent to the top of wall, guard railing should be set back from the top front face of wall at least 4'-0" or 5'-0", dependent on wall type.
- For reinforced concrete wall stem joint details, See (B0-3) and (B0-3) 3-3.
- No splices are allowed on @ bars.
- See "Retaining Wall Type 6 Details" sheet for Elevation View and Footing Step Details.



TYPE 6B WALL

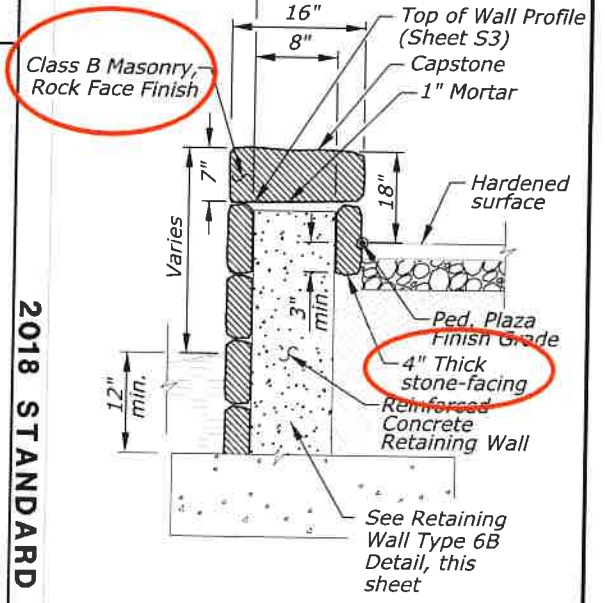
TYPE 6A WALL - TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA

DESIGN H	3'-4"	4'-0"	4'-8"	5'-4"	6'-0"
W	3'-0"	3'-3"	3'-8"	4'-2"	4'-8"
@ BARS	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16
Ser: B', q ₀	2.8, 0.2	3.0, 0.3	3.4, 0.3	3.8, 0.3	4.3, 0.3
Str: B', q _o	2.7, 0.6	2.9, 0.7	3.2, 0.7	3.6, 0.7	3.3, 0.6
Ext: B', q _o	1.7, 0.8	1.6, 0.9	1.7, 1.0	2.0, 1.0	2.1, 1.0

TYPE 6B WALL - TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA

DESIGN H	3'-4"	4'-0"	4'-8"	5'-4"	6'-0"
W	3'-0"	3'-9"	4'-0"	4'-6"	4'-9"
@ BARS	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16
@ BARS	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16
Ser: B', q ₀	2.6, 0.4	3.4, 0.4	2.7, 0.8	3.1, 0.8	3.2, 1.0
Str: B', q _o	2.6, 0.8	3.3, 0.9	1.7, 1.6	2.1, 1.6	2.0, 1.8
Ext: B', q _o	1.5, 1.1	2.0, 1.1	2.0, 1.4	2.2, 1.5	2.1, 1.9

2018 STANDARD PLAN B3-7A



STONE-FACED CONCRETE WALL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
RETAINING WALL TYPE 6 (CASE 1)
 NO SCALE
B3-7A



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION
 U.S. CUSTOMARY SPECIAL
**STONE MASONRY WALL
 (REINFORCED SEATING WALL)**
 SPECIAL 620-C

NO SCALE

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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Brdvalveil	T20

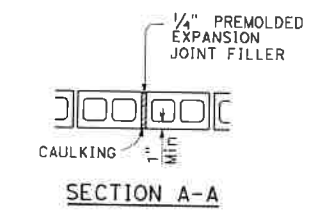
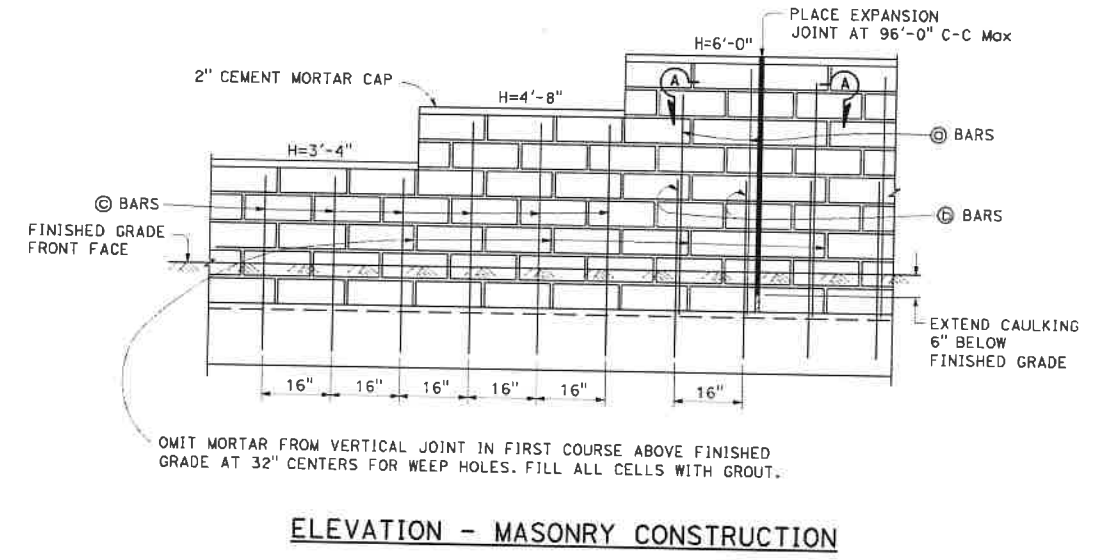
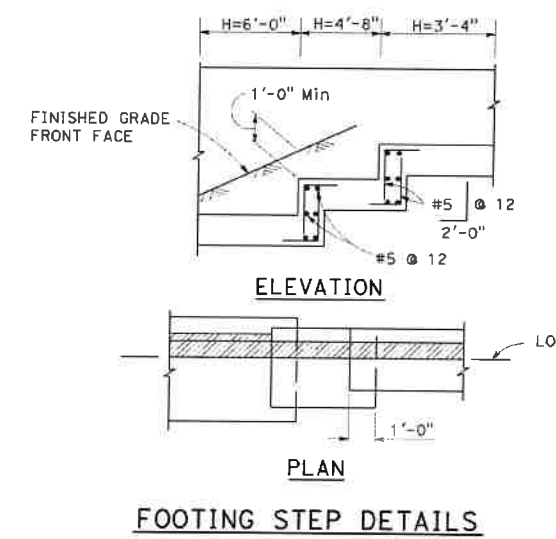
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Gary Wong
REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA BY ITS OFFICERS AND AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE CONTENTS OF THIS PLAN SHEET.

Gary Wong
REGISTERED PROFESSIONAL ENGINEER
No. 050864
Exp. 9/30/21
CIVIL
STATE OF CALIFORNIA



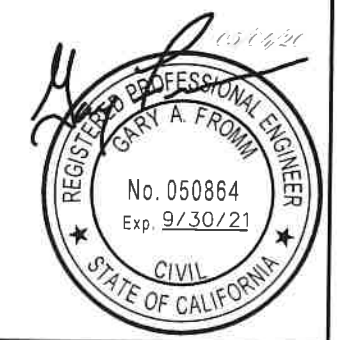
2018 STANDARD PLAN B3-7C

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

RETAINING WALL TYPE 6 DETAILS

NO SCALE

B3-7C



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL

RETAINING WALL TYPE 6 DETAILS

SPECIAL
620-D

NO SCALE

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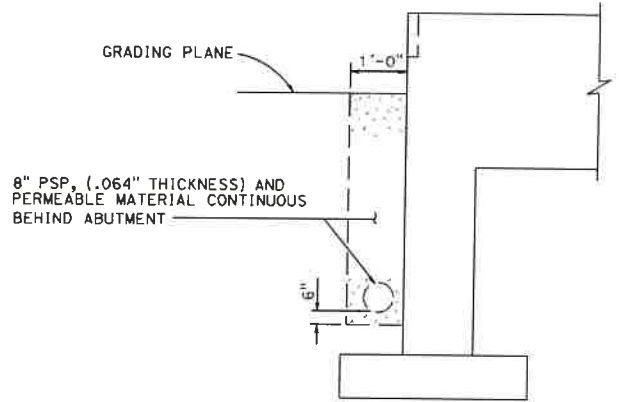
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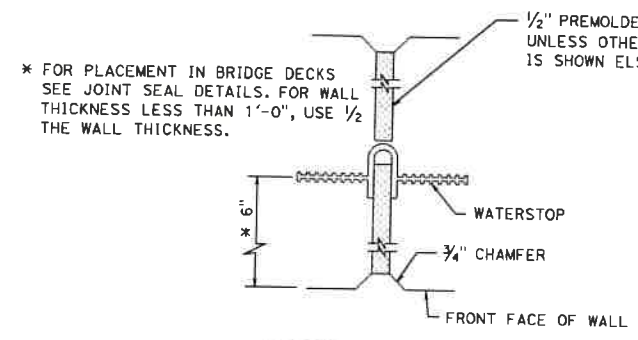
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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	T21

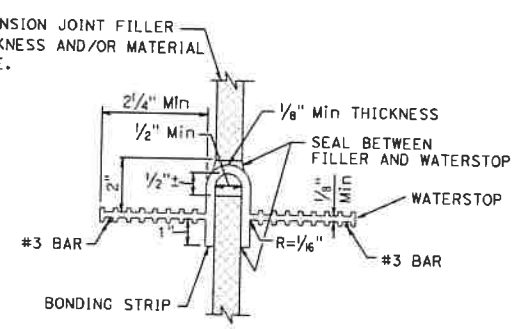
Gary Wong
 REGISTERED PROFESSIONAL ENGINEER
 No. C58218
 Exp. 6-30-18
 May 31, 2018
 PLEASE APPROVAL DATE



BRIDGE DETAIL 3-5
8" PSP AND PERMEABLE MATERIAL

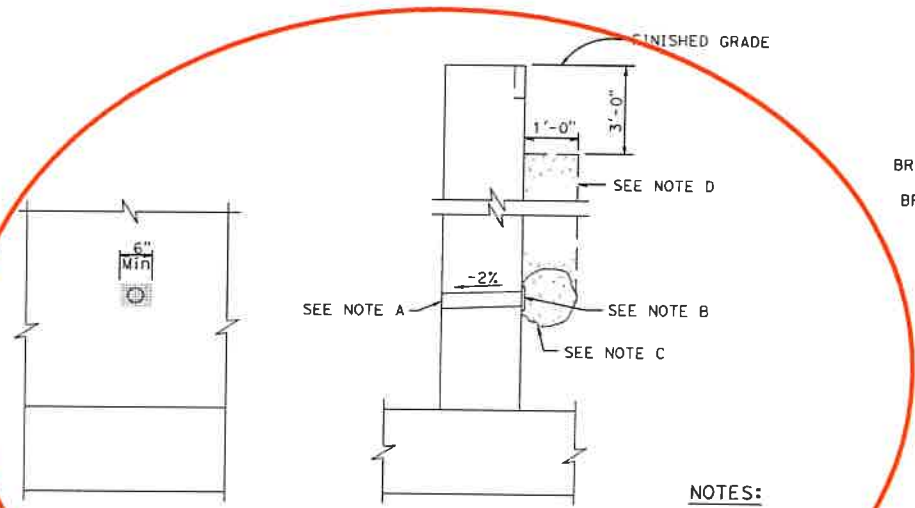


BRIDGE DETAIL 3-4
WALL EXPANSION JOINT



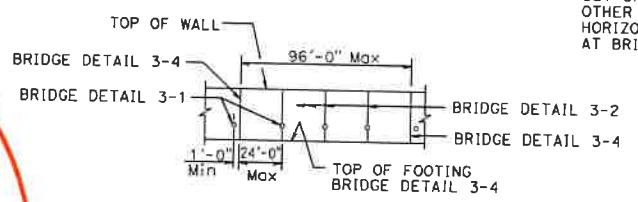
BRIDGE DETAIL 3-6
WATERSTOP

- NOTES:**
- Holes will be permitted in the outer 1/2" of the web for wire, rings, etc. Tie web to #3 reinforcing bars @ 12 maximum intervals to support the waterstop in proper position during concrete placement. Alternative detail may be submitted for approval of the Engineer.
 - Waterstop to have 5 or more pairs of raised ribs to provide 0.1 square inch minimum rib cross-section area on each half of the waterstop.

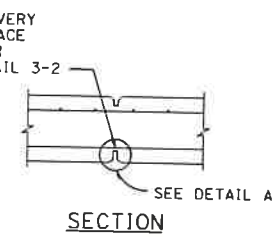


BRIDGE DETAIL 3-1
WEEP HOLE AND PERVIOUS BACKFILL

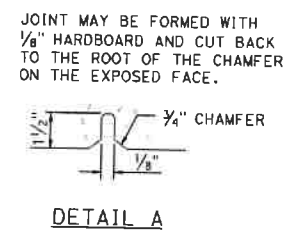
- NOTES:**
- 4" \emptyset Drains @ 2'-0" maximum center to center. For walls adjacent to sidewalks or curbs, provide 4" plastic pipe under the sidewalk to discharge thru curb face. Exposed wall drains shall be located 3"± above finished grade.
 - 6" square aluminum or galvanized steel wire 1/4" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
 - One cubic foot pervious backfill material in a nonwoven filter fabric, securely tied.
 - Pervious backfill material continuous behind retaining wall or abutment.



BRIDGE DETAIL 3-3
WALL EXPANSION JOINTS AND WEAKENED PLANES



SECTION
BRIDGE DETAIL 3-2
WEAKENED PLANES



DETAIL A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE DETAILS
NO SCALE

B0-3

2018 STANDARD PLAN B0-3

GARY A. FROMM
 REGISTERED PROFESSIONAL ENGINEER
 No. 050864
 Exp. 9/30/21
 CIVIL
 STATE OF CALIFORNIA

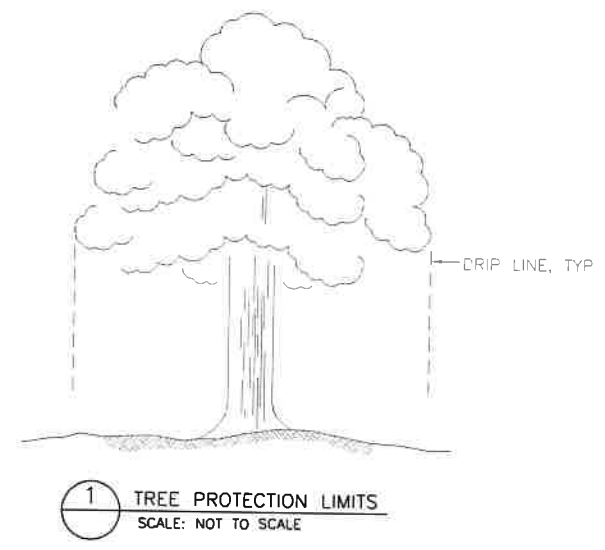
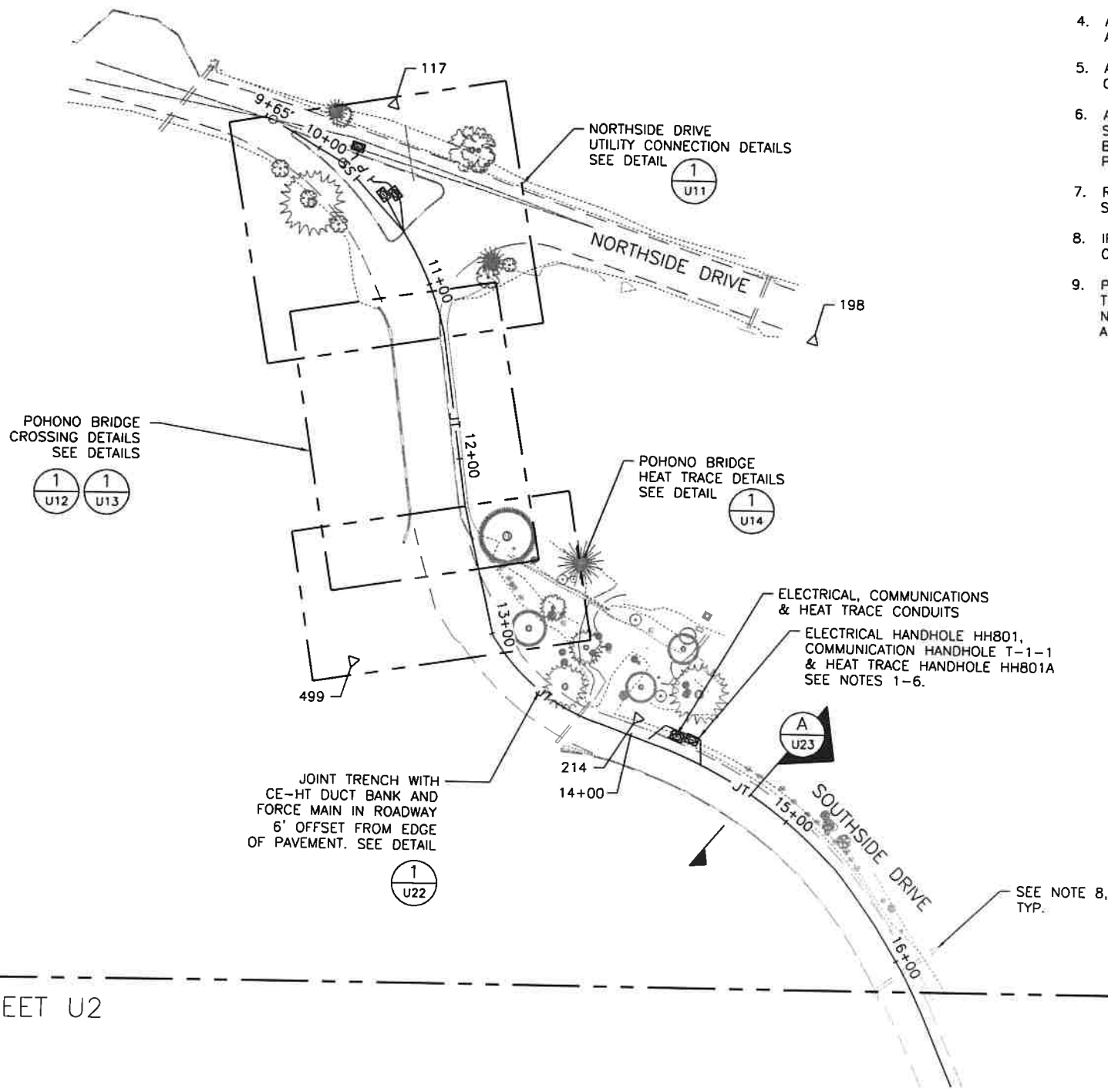
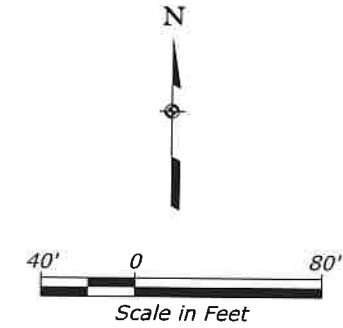
U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION
 U.S. CUSTOMARY SPECIAL
STONE MASONRY WALL
(REINFORCED SEATING WALL)
MISCELLANEOUS DETAILS
 SPECIAL
 620-E

NO SCALE

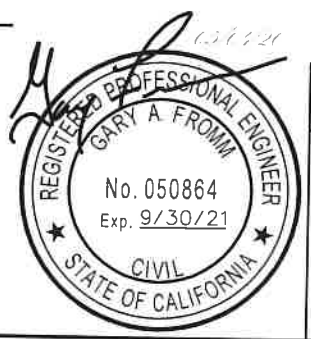
STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U1

NOTES

1. ALL ELECTRICAL, COMMUNICATION, AND HEAT TRACE HANDHOLES SHALL BE INSTALLED PER DETAIL 2, SHEET U25 AND DETAIL 4, SHEET U25 UNLESS OTHERWISE NOTED.
2. HANDHOLE LIDS SHALL BE TYPE 5 INCIDENTAL LIDS PER U26.
3. SEE SHEET U24 FOR HANDHOLE COORDINATES.
4. ALL HANDHOLES ARE TO BE CONSTRUCTED IN A PROTECTIVE SNOW PLOW APRON AS SHOWN ON DETAILS 1 & 2 ON SHEET U23.
5. ALL HEAT TRACE HANDHOLES ARE PER DETAIL 1 ON SHEET U25 & DETAIL 1 ON SHEET U23.
6. ADJUST HANDHOLE LOCATION AS NECESSARY TO MAKE ALL FIT INSIDE OF SHOULDER AREA, GRAVEL AREAS ADJACENT TO THE HANDHOLE LOCATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. OBTAIN CO LOCATION APPROVAL PRIOR TO GROUND DISTURBANCE.
7. REPLACE ALL SNOW STAKES AND CULVERT MARKERS REMOVED FROM ROAD SHOULDERS DURING CONSTRUCTION.
8. IF EXISTING CULVERTS OR END SECTIONS ARE CUT OR DAMAGED DURING CONSTRUCTION REPLACE ENTIRE CULVERT.
9. PROTECT EXISTING TREES AND TREE ROOTS TO THE BEST EXTENT REASONABLE. THE LOCATION OF IMPROVEMENTS SHALL BE VERIFIED AND ADJUSTED IF NECESSARY TO AVOID TREES TO THE GREATEST EXTENT POSSIBLE PENDING APPROVAL BY CONTRACTING OFFICER'S REPRESENTATIVE.



MATCH LINE SEE SHEET U2



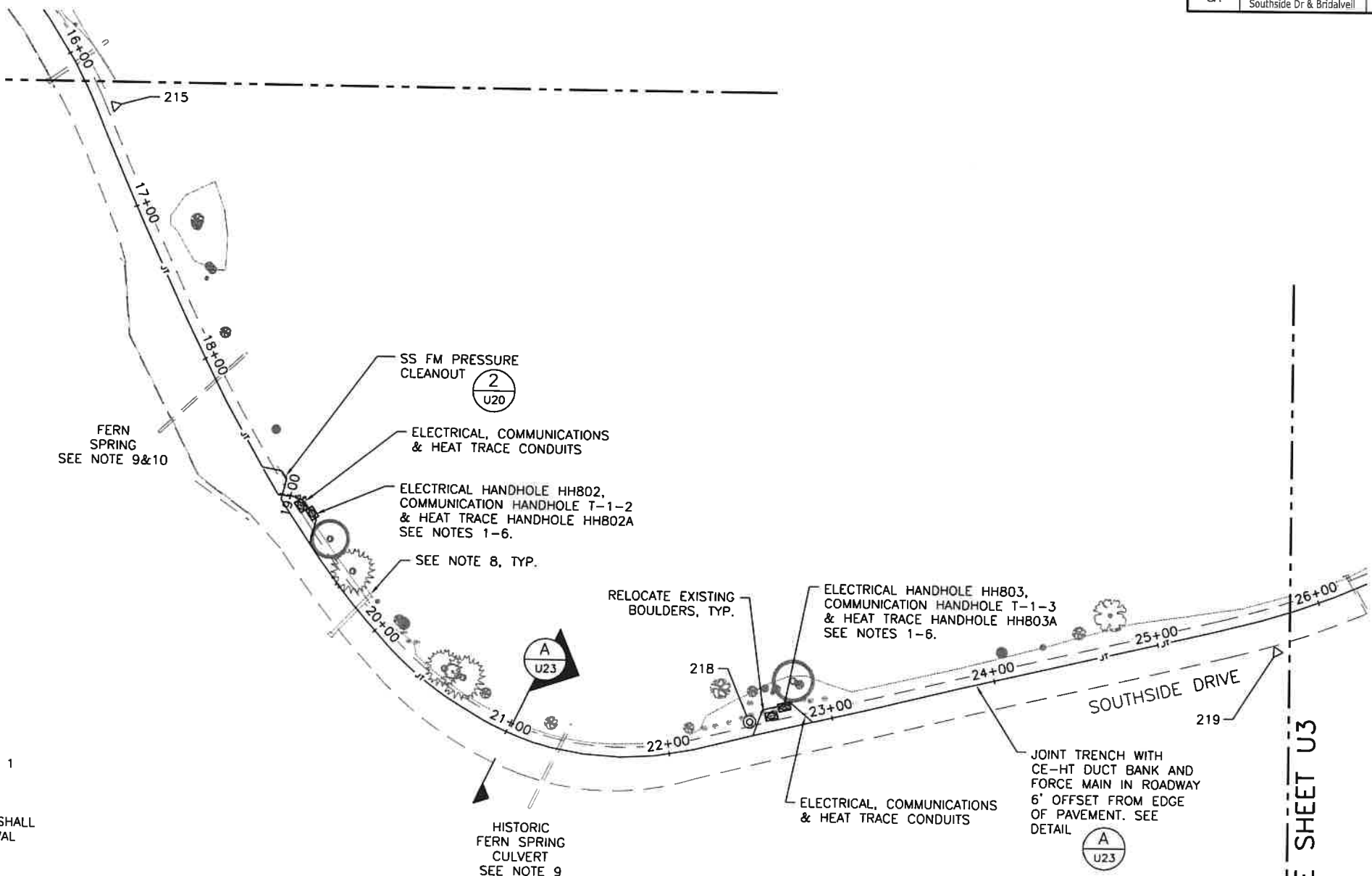
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SOUTHSIDE DRIVE
UTILITY PLAN**

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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U2

MATCH LINE SEE SHEET U1



NOTES

- ALL ELECTRICAL, COMMUNICATION, AND HEAT TRACE HANDHOLES SHALL BE INSTALLED PER DETAIL 2, SHEET U25 AND DETAIL 4, SHEET U25 UNLESS OTHERWISE NOTED.
- HANDHOLE LIDS SHALL BE TYPE 5 INCIDENTAL LIDS PER U26.
- SEE SHEET U24 FOR HANDHOLE COORDINATES.
- ALL HANDHOLES ARE TO BE CONSTRUCTED IN A PROTECTIVE SNOW PLOW APRON AS SHOWN ON DETAILS 1 & 2 ON SHEET U23.
- ALL HEAT TRACE HANDHOLES ARE PER DETAIL 1 ON SHEET U25 & DETAIL 1 ON SHEET U23.
- ADJUST HANDHOLE LOCATION AS NECESSARY TO MAKE ALL FIT INSIDE OF SHOULDER AREA, GRAVEL AREAS ADJACENT TO THE HANDHOLE LOCATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. OBTAIN CO LOCATION APPROVAL PRIOR TO GROUND DISTURBANCE.
- REPLACE ALL SNOW STAKES AND CULVERT MARKERS REMOVED FROM ROAD SHOULDERS DURING CONSTRUCTION.
- IF EXISTING CULVERTS OR END SECTIONS ARE CUT OR DAMAGED DURING CONSTRUCTION REPLACE ENTIRE CULVERT.
- FERN SPRING FORMAL ROADSIDE TURN-OUT LOCATED GENERALLY BETWEEN STATIONS 17+00 AND 19+00 AND INFORMAL ROADSIDE PARKING AREA GENERALLY LOCATED ON SOUTH SIDE OF THE ROAD BETWEEN STATION 20+00 AND 22+00 SHALL REMAIN OPEN DURING CONSTRUCTION AND SHALL NOT BE USED AS CONTRACTOR STAGING AREA.
- SHALLOW GROUND WATER CONDITIONS MAY EXIST NEAR FERN SPRING. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL POT HOLE BETWEEN STATIONS 17+00 AND 19+00 AND PREPARE A DEWATERING PLAN IF SHALLOW GROUND WATER CONDITIONS EXIST, TO THE SATISFACTION OF THE COR.
- PROTECT EXISTING TREES AND TREE ROOTS TO THE BEST EXTENT REASONABLE. THE LOCATION OF IMPROVEMENTS SHALL BE VERIFIED AND ADJUSTED IF NECESSARY TO AVOID TREES TO THE GREATEST EXTENT POSSIBLE PENDING APPROVAL BY CONTRACTING OFFICER'S REPRESENTATIVE.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SOUTHSIDE DRIVE
UTILITY PLAN**

MATCH LINE SEE SHEET U3

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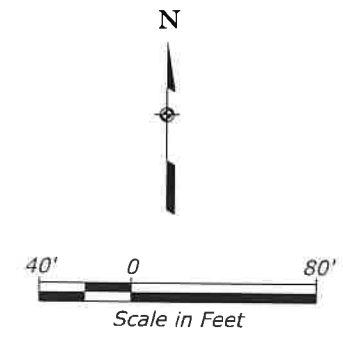
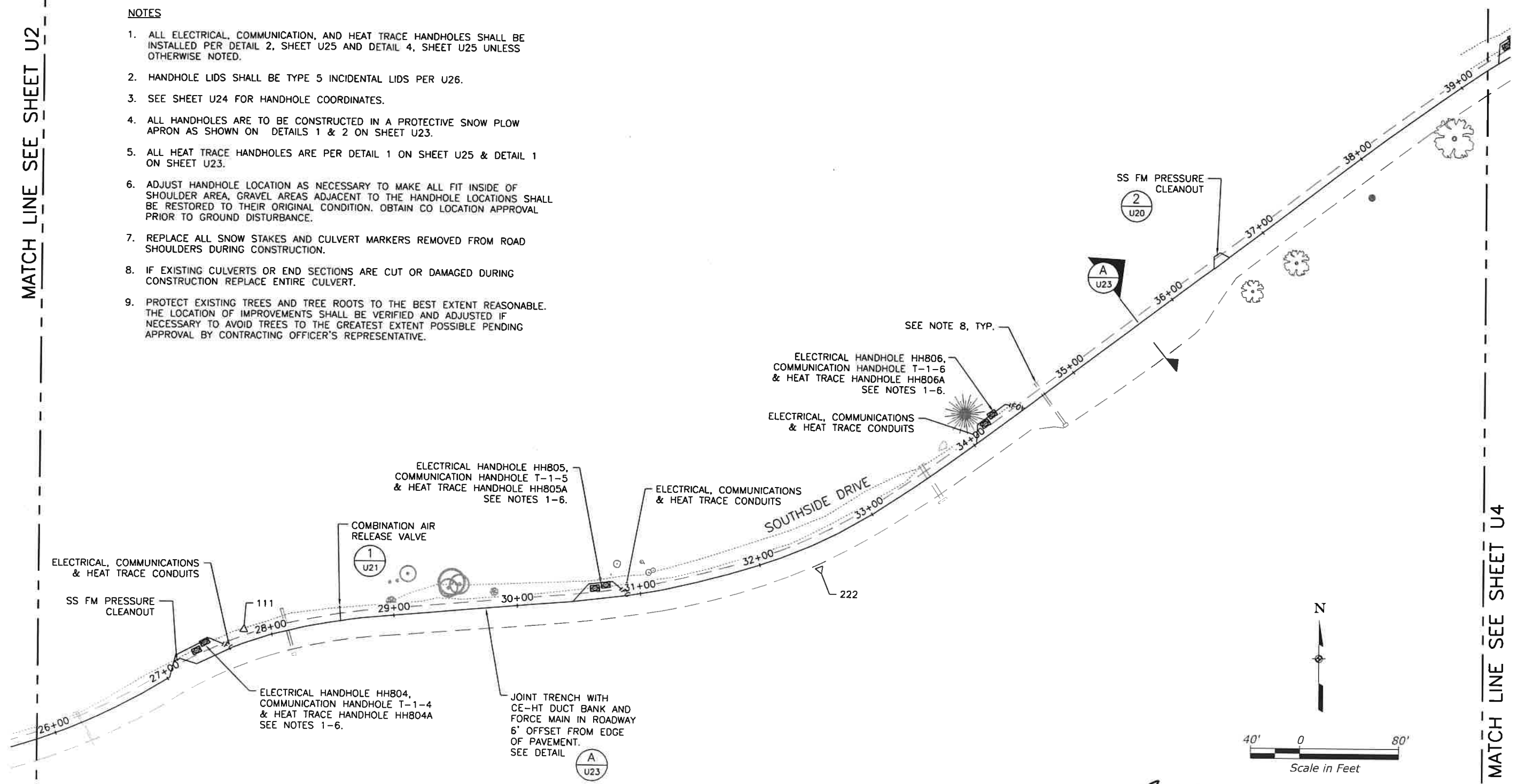
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STATE	PROJECT	SHEET NUMBER
CA	FTMP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U3

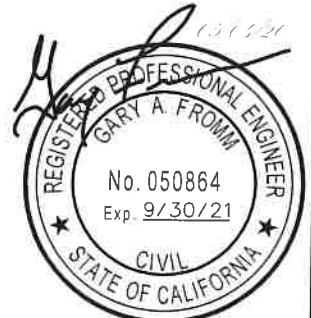
MATCH LINE SEE SHEET U2

NOTES

1. ALL ELECTRICAL, COMMUNICATION, AND HEAT TRACE HANDHOLES SHALL BE INSTALLED PER DETAIL 2, SHEET U25 AND DETAIL 4, SHEET U25 UNLESS OTHERWISE NOTED.
2. HANDHOLE LIDS SHALL BE TYPE 5 INCIDENTAL LIDS PER U26.
3. SEE SHEET U24 FOR HANDHOLE COORDINATES.
4. ALL HANDHOLES ARE TO BE CONSTRUCTED IN A PROTECTIVE SNOW PLOW APRON AS SHOWN ON DETAILS 1 & 2 ON SHEET U23.
5. ALL HEAT TRACE HANDHOLES ARE PER DETAIL 1 ON SHEET U25 & DETAIL 1 ON SHEET U23.
6. ADJUST HANDHOLE LOCATION AS NECESSARY TO MAKE ALL FIT INSIDE OF SHOULDER AREA, GRAVEL AREAS ADJACENT TO THE HANDHOLE LOCATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. OBTAIN CO LOCATION APPROVAL PRIOR TO GROUND DISTURBANCE.
7. REPLACE ALL SNOW STAKES AND CULVERT MARKERS REMOVED FROM ROAD SHOULDERS DURING CONSTRUCTION.
8. IF EXISTING CULVERTS OR END SECTIONS ARE CUT OR DAMAGED DURING CONSTRUCTION REPLACE ENTIRE CULVERT.
9. PROTECT EXISTING TREES AND TREE ROOTS TO THE BEST EXTENT REASONABLE. THE LOCATION OF IMPROVEMENTS SHALL BE VERIFIED AND ADJUSTED IF NECESSARY TO AVOID TREES TO THE GREATEST EXTENT POSSIBLE PENDING APPROVAL BY CONTRACTING OFFICER'S REPRESENTATIVE.



MATCH LINE SEE SHEET U4



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SOUTHSIDE DRIVE
UTILITY PLAN**

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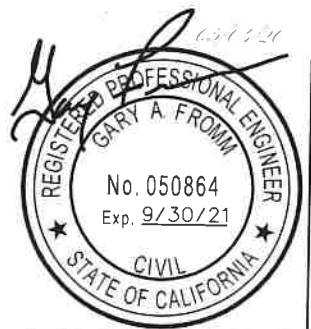
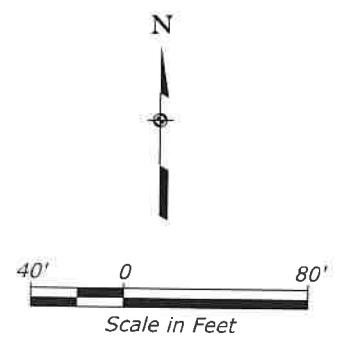
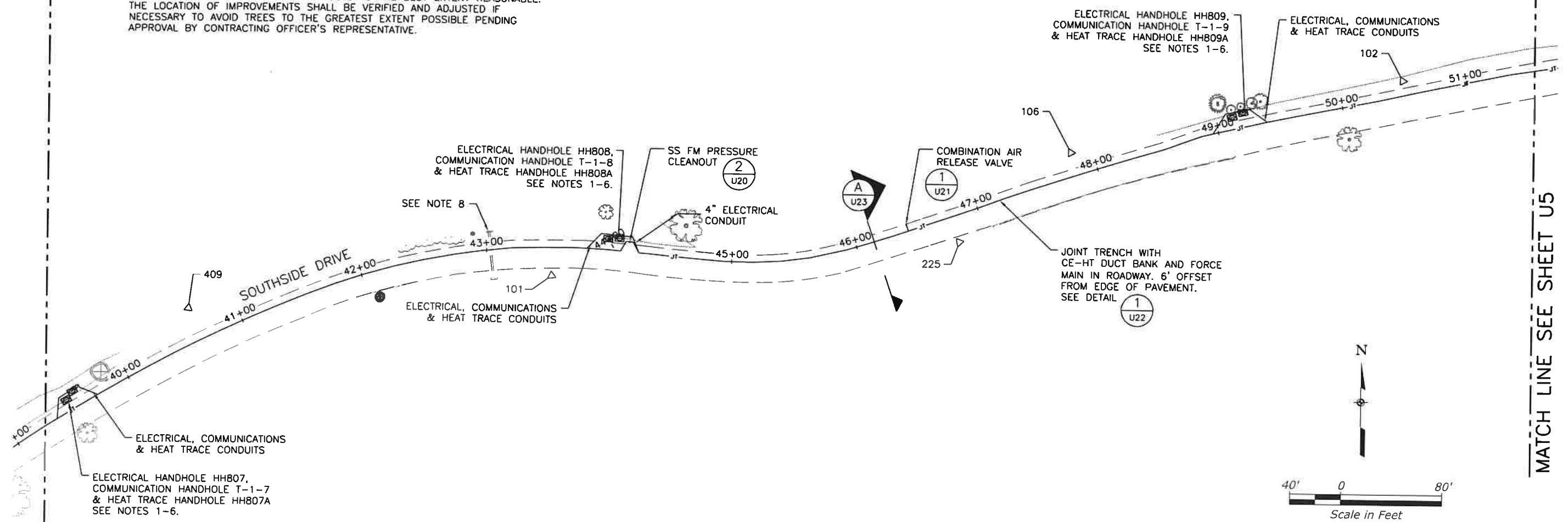
STATE	PROJECT	SHEET NUMBER
CA	FTWP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U4

NOTES

1. ALL ELECTRICAL, COMMUNICATION, AND HEAT TRACE HANDHOLES SHALL BE INSTALLED PER DETAIL 2, SHEET U25 AND DETAIL 4, SHEET U25 UNLESS OTHERWISE NOTED.
2. HANDHOLE LIDS SHALL BE TYPE 5 INCIDENTAL LIDS PER U26.
3. SEE SHEET U24 FOR HANDHOLE COORDINATES.
4. ALL HANDHOLES ARE TO BE CONSTRUCTED IN A PROTECTIVE SNOW PLOW APRON AS SHOWN ON DETAILS 1 & 2 ON SHEET U23.
5. ALL HEAT TRACE HANDHOLES ARE PER DETAIL 1 ON SHEET U25 & DETAIL 1 ON SHEET U23.
6. ADJUST HANDHOLE LOCATION AS NECESSARY TO MAKE ALL FIT INSIDE OF SHOULDER AREA, GRAVEL AREAS ADJACENT TO THE HANDHOLE LOCATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. OBTAIN CO LOCATION APPROVAL PRIOR TO GROUND DISTURBANCE.
7. REPLACE ALL SNOW STAKES AND CULVERT MARKERS REMOVED FROM ROAD SHOULDERS DURING CONSTRUCTION.
8. IF EXISTING CULVERTS OR END SECTIONS ARE CUT OR DAMAGED DURING CONSTRUCTION REPLACE ENTIRE CULVERT.
9. PROTECT EXISTING TREES AND TREE ROOTS TO THE BEST EXTENT REASONABLE. THE LOCATION OF IMPROVEMENTS SHALL BE VERIFIED AND ADJUSTED IF NECESSARY TO AVOID TREES TO THE GREATEST EXTENT POSSIBLE PENDING APPROVAL BY CONTRACTING OFFICER'S REPRESENTATIVE.

MATCH LINE SEE SHEET U3

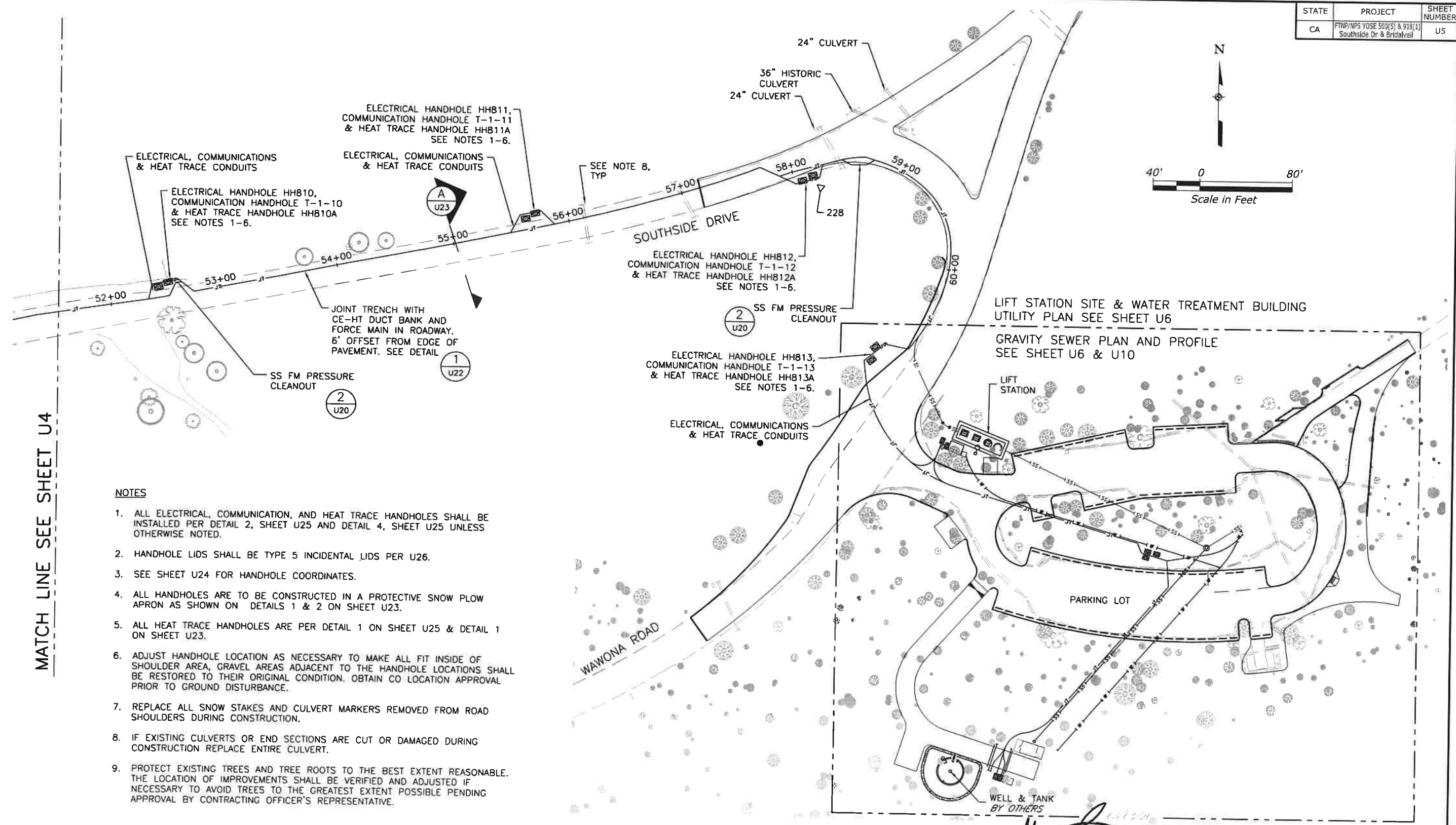
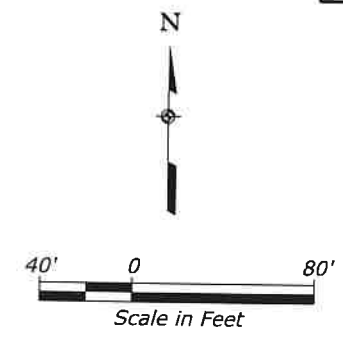
MATCH LINE SEE SHEET U5



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SOUTHSIDE DRIVE
 UTILITY PLAN**

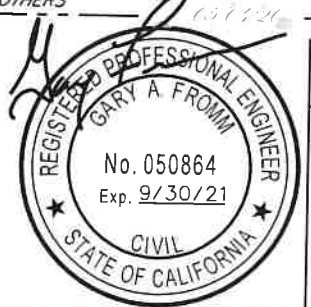
STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U5



MATCH LINE SEE SHEET U4

NOTES

1. ALL ELECTRICAL, COMMUNICATION, AND HEAT TRACE HANDHOLES SHALL BE INSTALLED PER DETAIL 2, SHEET U25 AND DETAIL 4, SHEET U25 UNLESS OTHERWISE NOTED.
2. HANDHOLE LIDS SHALL BE TYPE 5 INCIDENTAL LIDS PER U26.
3. SEE SHEET U24 FOR HANDHOLE COORDINATES.
4. ALL HANDHOLES ARE TO BE CONSTRUCTED IN A PROTECTIVE SNOW PLOW APRON AS SHOWN ON DETAILS 1 & 2 ON SHEET U23.
5. ALL HEAT TRACE HANDHOLES ARE PER DETAIL 1 ON SHEET U25 & DETAIL 1 ON SHEET U23.
6. ADJUST HANDHOLE LOCATION AS NECESSARY TO MAKE ALL FIT INSIDE OF SHOULDER AREA, GRAVEL AREAS ADJACENT TO THE HANDHOLE LOCATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. OBTAIN CO LOCATION APPROVAL PRIOR TO GROUND DISTURBANCE.
7. REPLACE ALL SNOW STAKES AND CULVERT MARKERS REMOVED FROM ROAD SHOULDERS DURING CONSTRUCTION.
8. IF EXISTING CULVERTS OR END SECTIONS ARE CUT OR DAMAGED DURING CONSTRUCTION REPLACE ENTIRE CULVERT.
9. PROTECT EXISTING TREES AND TREE ROOTS TO THE BEST EXTENT REASONABLE. THE LOCATION OF IMPROVEMENTS SHALL BE VERIFIED AND ADJUSTED IF NECESSARY TO AVOID TREES TO THE GREATEST EXTENT POSSIBLE PENDING APPROVAL BY CONTRACTING OFFICER'S REPRESENTATIVE.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SOUTHSIDE DRIVE
UTILITY PLAN**

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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U6

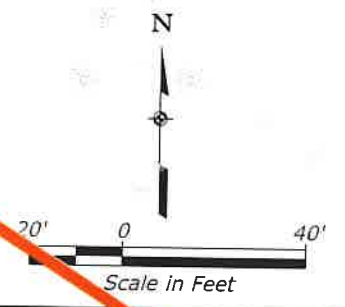


NOTE:
Identify alignment and location of all proposed trenches, vaults, and equipment to the CO prior to any ground disturbance. Adjustments to minimize/avoid trees and roots are acceptable.

POINT TABLE			
Point	Northing	Easting	Description
1	2084593.17	6806958.90	Sewer Line
2	2084496.80	6807172.97	Sewer Line
3	2084329.83	6807028.63	Sewer Line
4	2084322.70	6807048.90	Water Line End
5	2084480.23	6807185.08	Water Line Tee
6	2084317.30	6806991.76	Sleeve
7	2084314.43	6807000.86	Joint Trench
8	2084312.40	6807007.28	Sleeve
9	2084515.60	6807202.52	Sewer Line End
10	2084512.23	6807202.67	Water Line End
11	2084508.46	6807203.77	Joint Trench End
12	2084304.05	6806991.69	Comm. Line End
13	2084323.12	6807009.30	Electric Line End
14	2084327.07	6806996.79	Comm. Line End
15	2084304.67	6806989.72	Comm. Line End

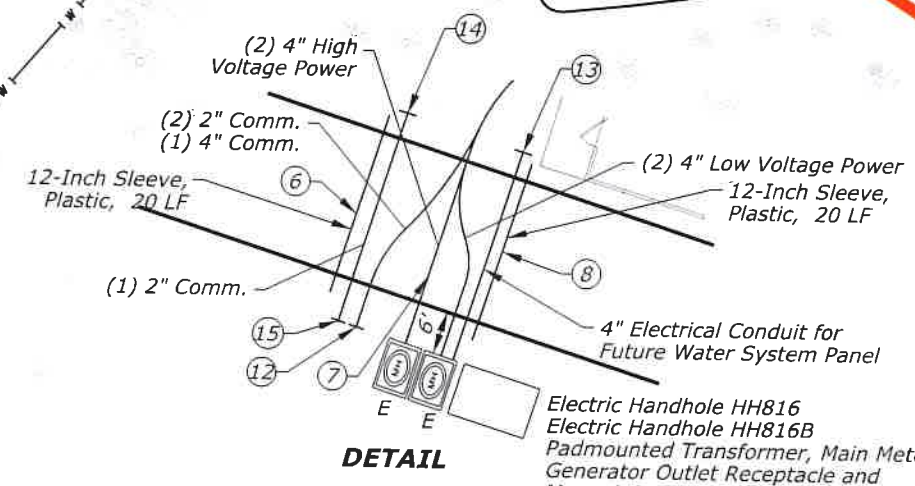
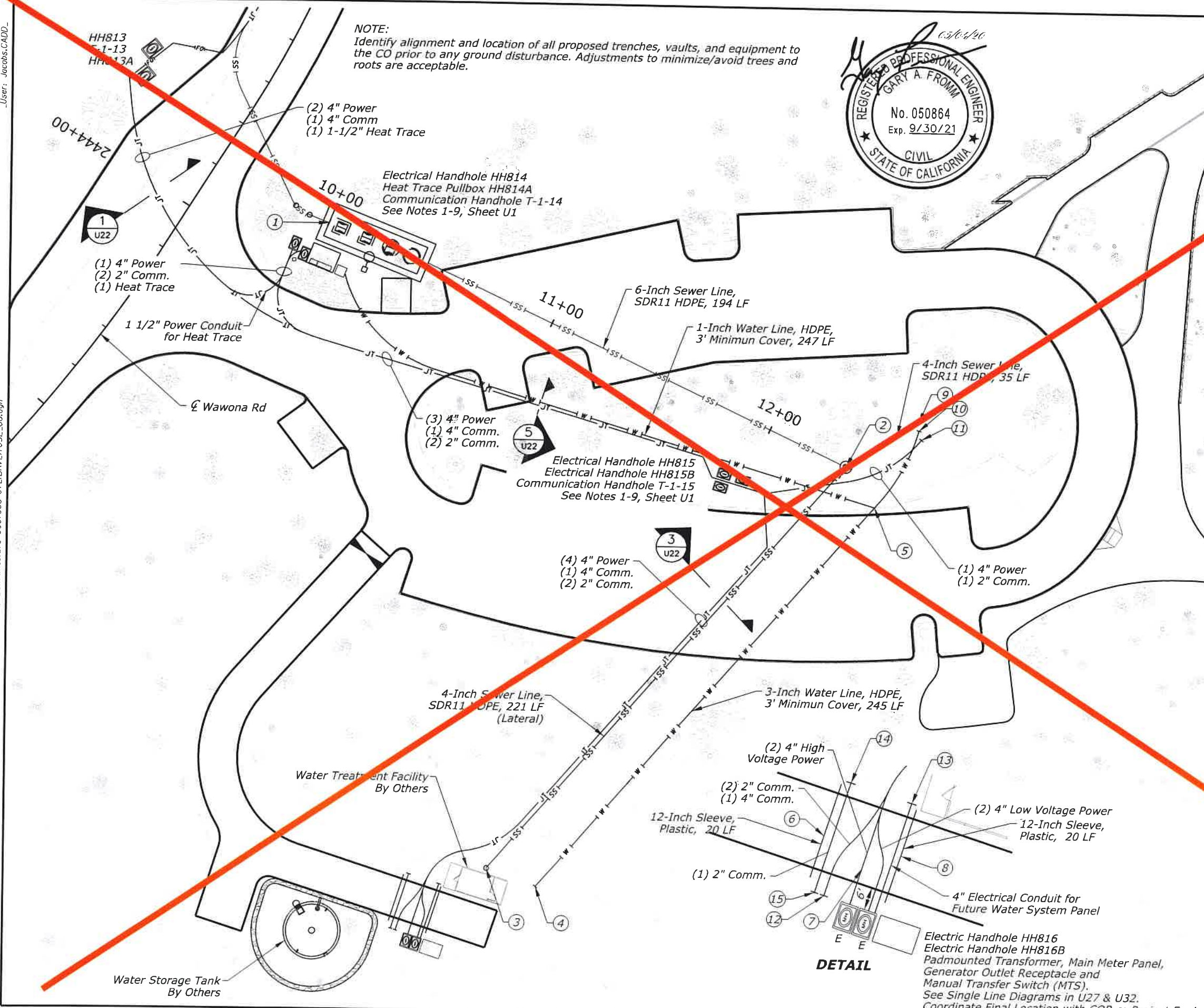
NOTE:

- Cap all conduit and waterline ends that do not terminate in a vault per Detail 1, Sheet U31.
- Terminate sewer ends with clean out per Detail 5, Sheet U10.
- Coordinate with COR final location of all stub-outs, ends, vaults and pullboxes.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**UTILITY LAYOUT
BRIDALVEIL
PARKING LOT**



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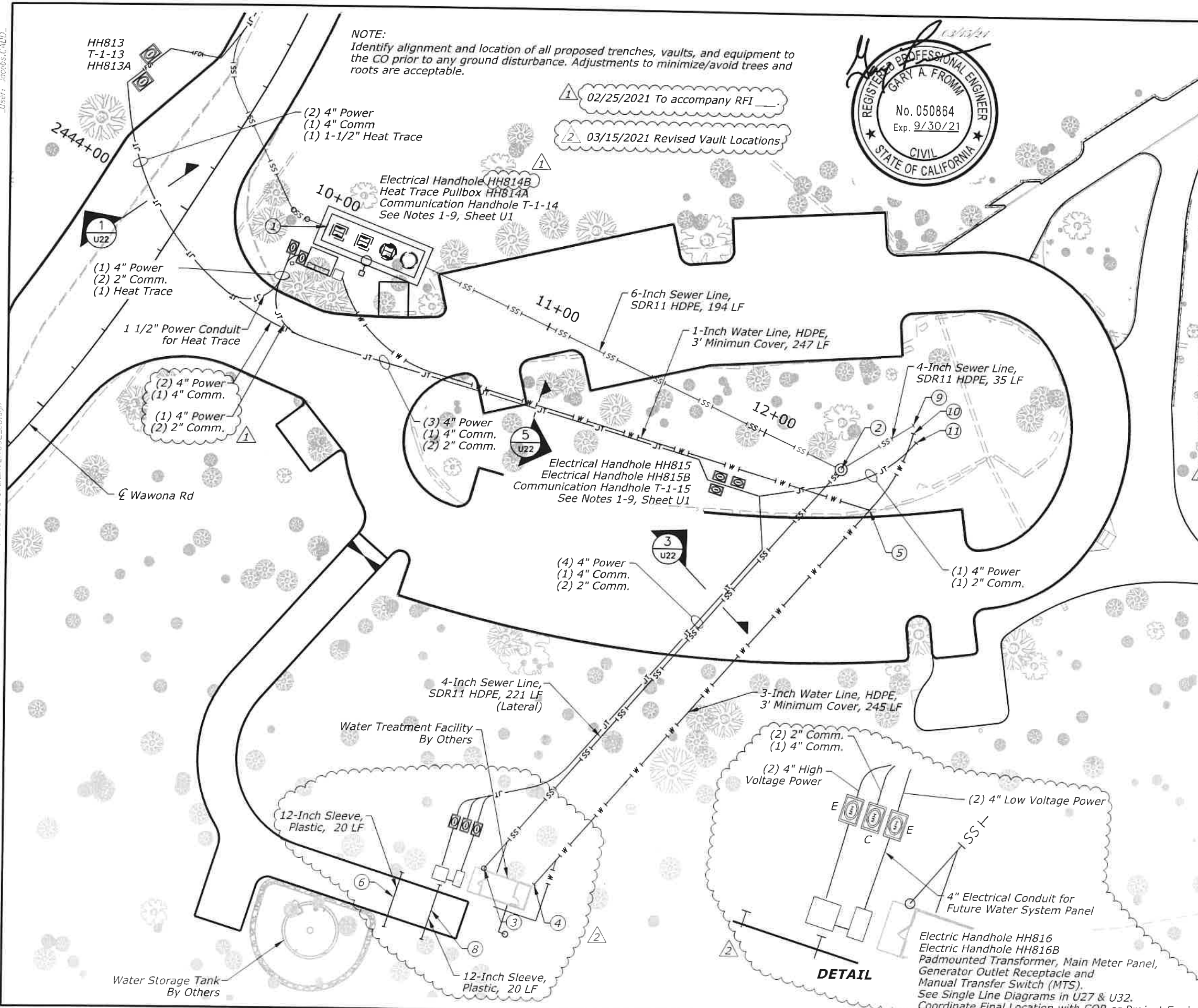
STATE	PROJECT	SHEET NUMBER
CA	FTMP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U6



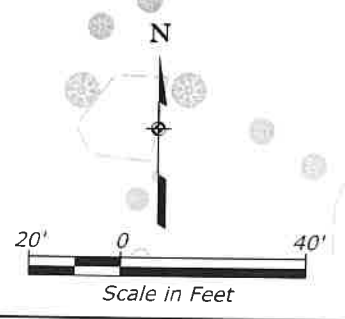
NOTE:
Identify alignment and location of all proposed trenches, vaults, and equipment to the CO prior to any ground disturbance. Adjustments to minimize/avoid trees and roots are acceptable.

- 1 02/25/2021 To accompany RFI
- 2 03/15/2021 Revised Vault Locations

Point	Northing	Easting	Description
1	2084593.17	6806958.90	Sewer Line
2	2084496.80	6807172.97	Sewer Line
3	2084329.83	6807028.63	Sewer Line
4	2084322.70	6807048.90	Water Line End
5	2084480.23	6807185.08	Water Line Tee
6	2084317.30	6806991.76	Sleeve
7			
8	2084312.40	6807007.28	Sleeve
9	2084515.60	6807202.52	Sewer Line End
10	2084512.23	6807202.67	Water Line End
11	2084508.46	6807203.77	Joint Trench End

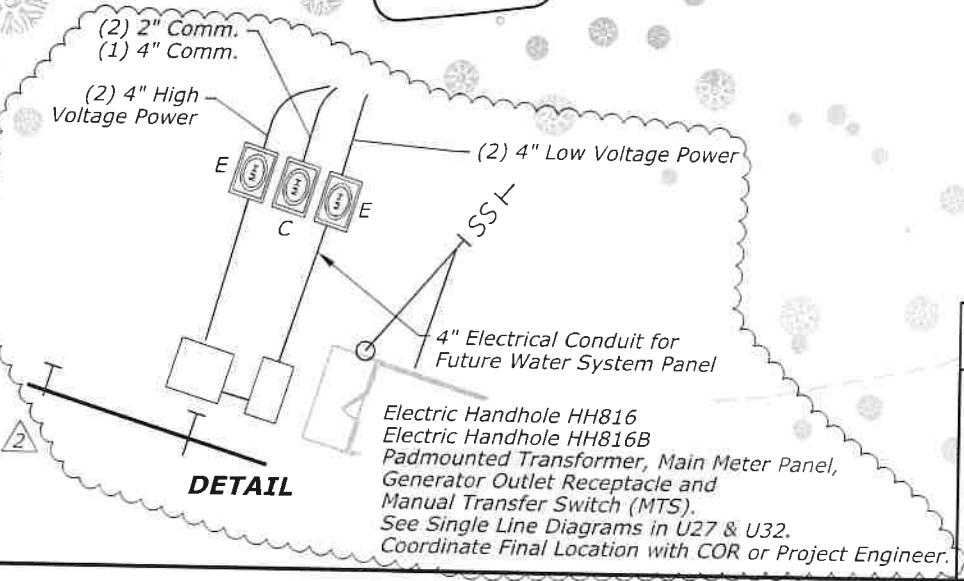


- NOTE:**
- Cap all conduit and waterline ends that do not terminate in a vault per Detail 1, Sheet U31.
 - Terminate sewer ends with clean out per Detail 5, Sheet U10.
 - Coordinate with COR final location of all stub-outs, ends, vaults and pullboxes.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**UTILITY LAYOUT
BRIDALVEIL
PARKING LOT**

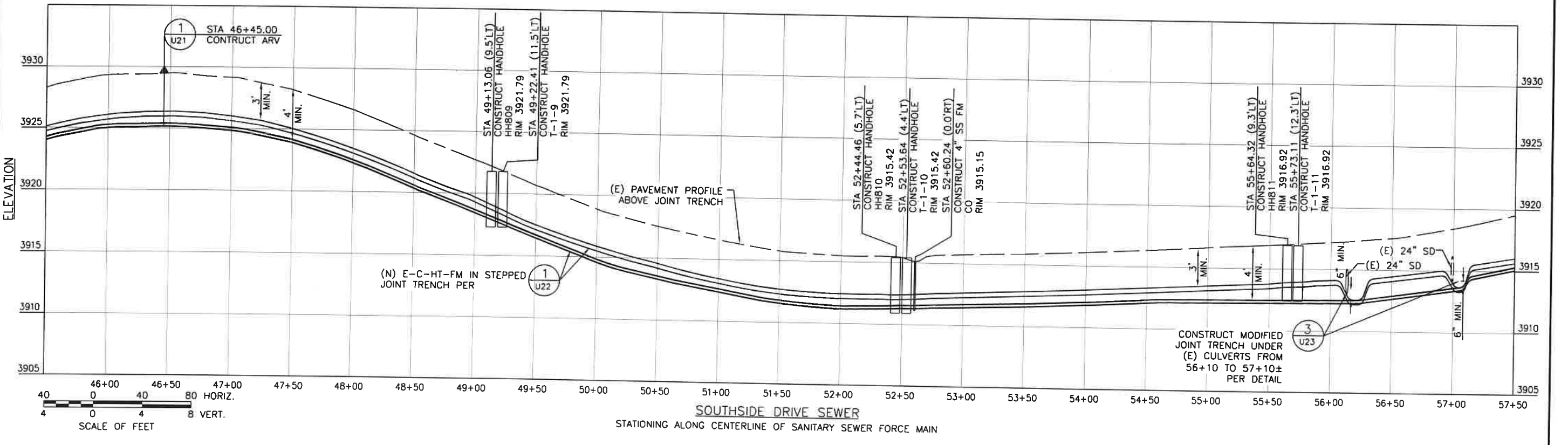
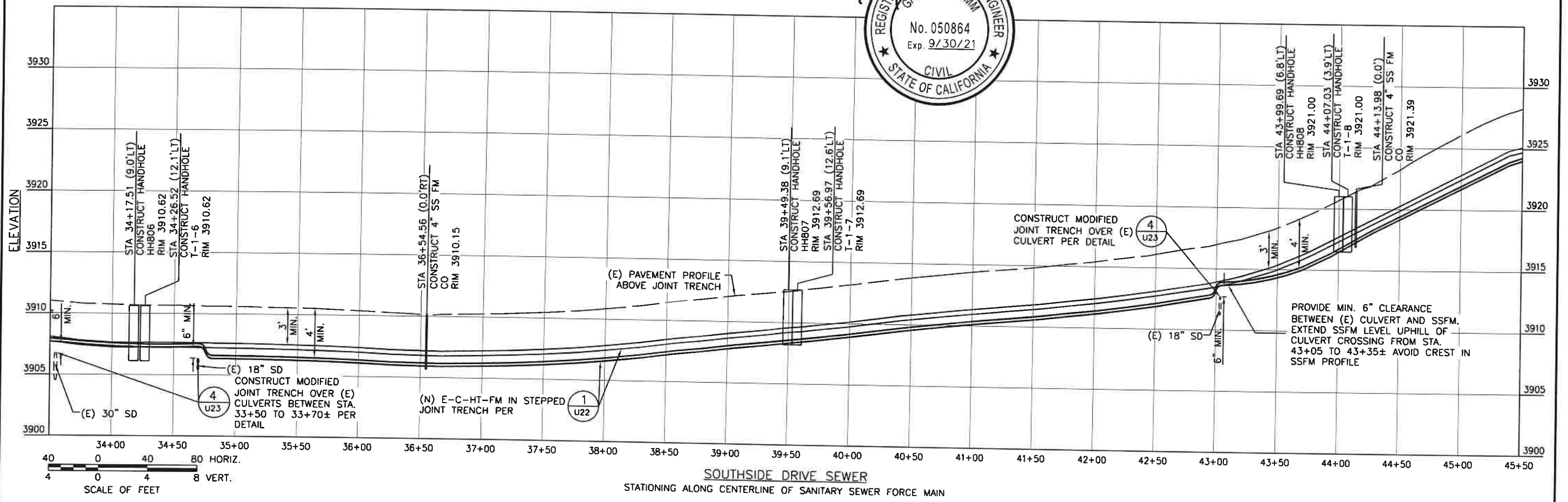


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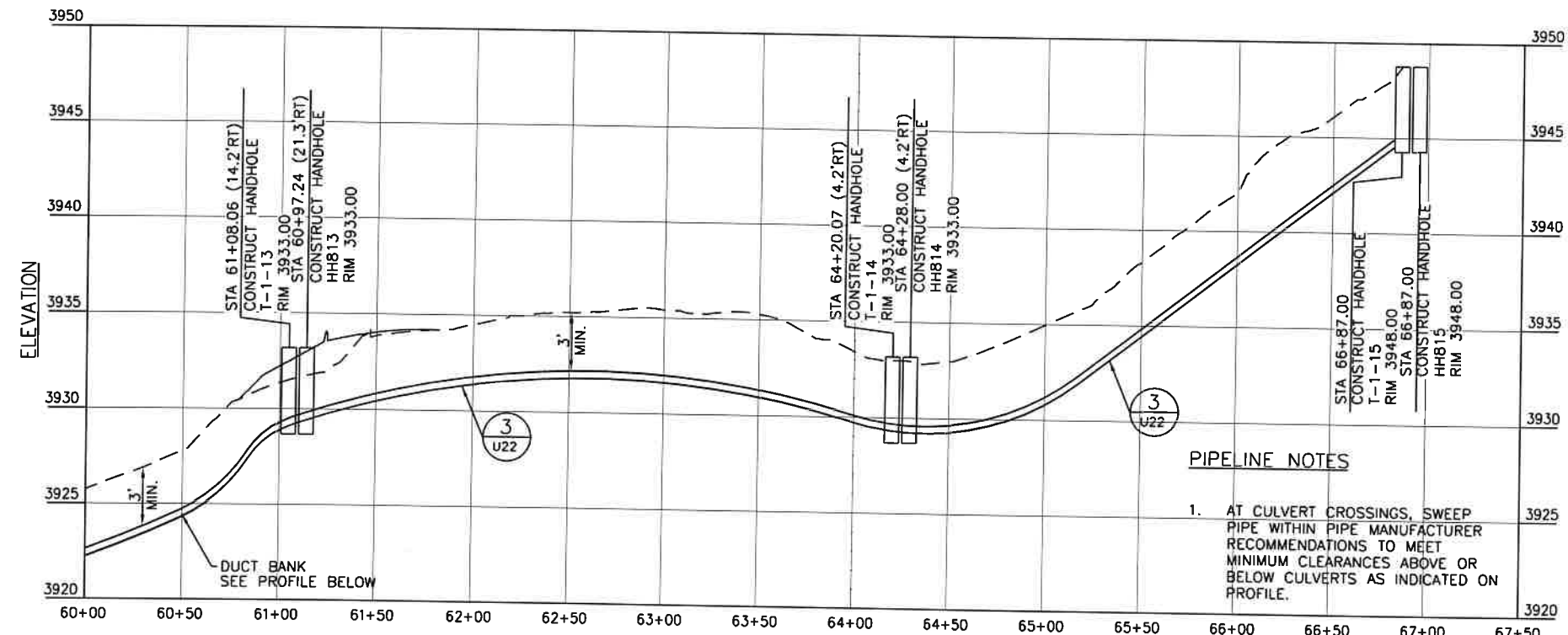
PIPELINE NOTES

1. AT CULVERT CROSSINGS, SWEEP PIPE WITHIN PIPE MANUFACTURER RECOMMENDATIONS TO MEET MINIMUM CLEARANCES ABOVE OR BELOW CULVERTS AS INDICATED ON PROFILE.

STATE	PROJECT	SHEET NUMBER
CA	FTNR/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U8



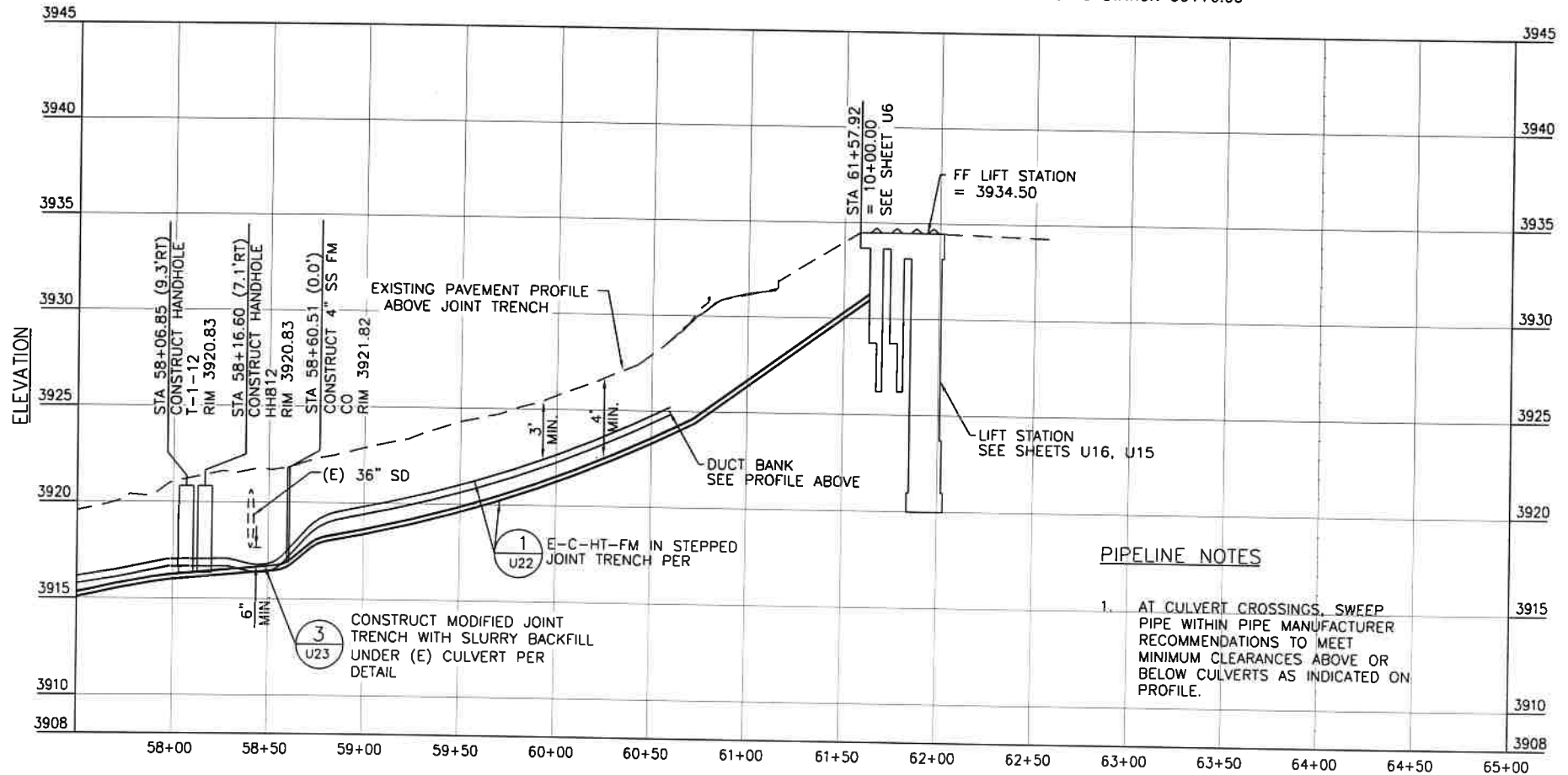
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CA	FTNF/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U9



PIPELINE NOTES

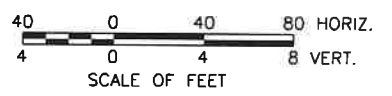
1. AT CULVERT CROSSINGS, SWEEP PIPE WITHIN PIPE MANUFACTURER RECOMMENDATIONS TO MEET MINIMUM CLEARANCES ABOVE OR BELOW CULVERTS AS INDICATED ON PROFILE.

SOUTHSIDE DRIVE DUCT BANK
STATIONING ALONG CENTERLINE OF DUCT BANK FROM STATION 60+00.00 TO STATION 66+70.00



PIPELINE NOTES

1. AT CULVERT CROSSINGS, SWEEP PIPE WITHIN PIPE MANUFACTURER RECOMMENDATIONS TO MEET MINIMUM CLEARANCES ABOVE OR BELOW CULVERTS AS INDICATED ON PROFILE.



SOUTHSIDE DRIVE SEWER
STATIONING ALONG CENTERLINE OF SANITARY SEWER FORCE MAIN TO STATION 60+97.71



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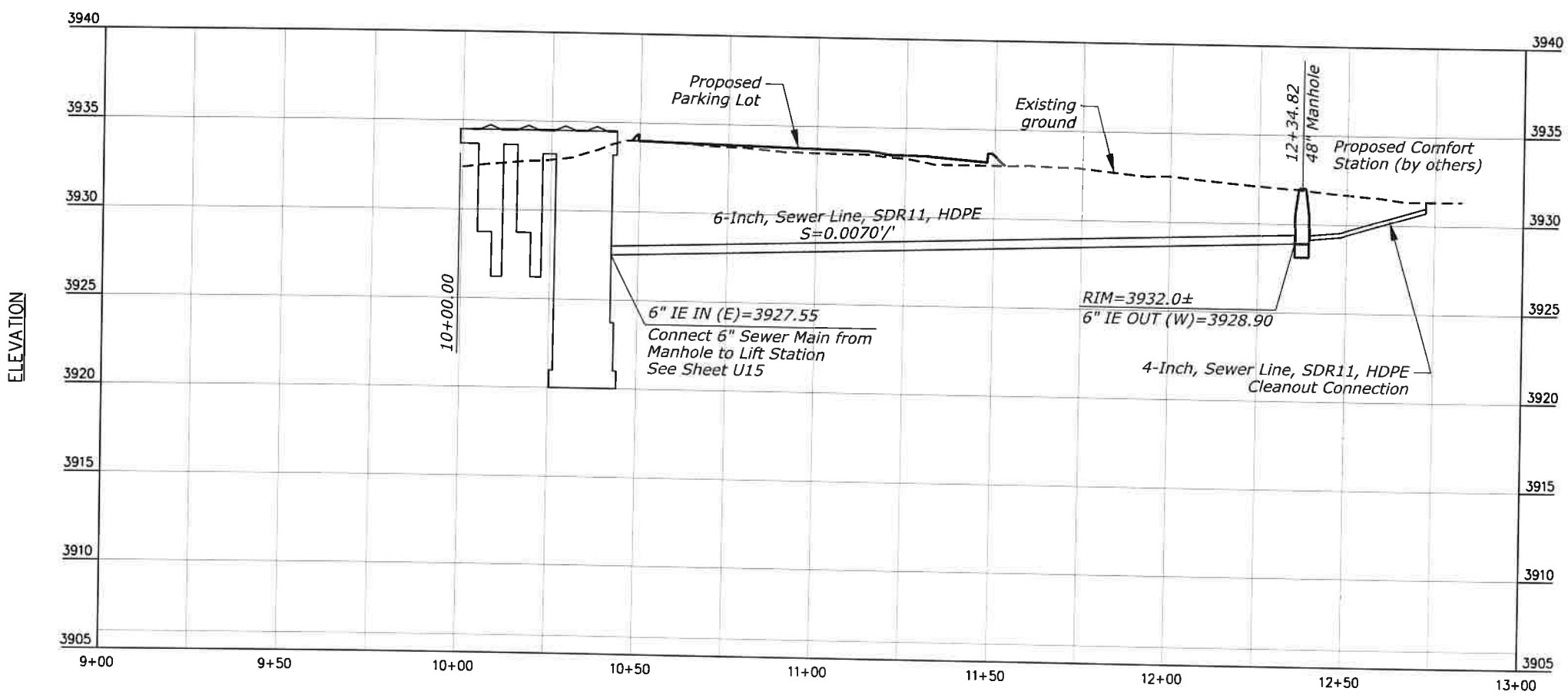
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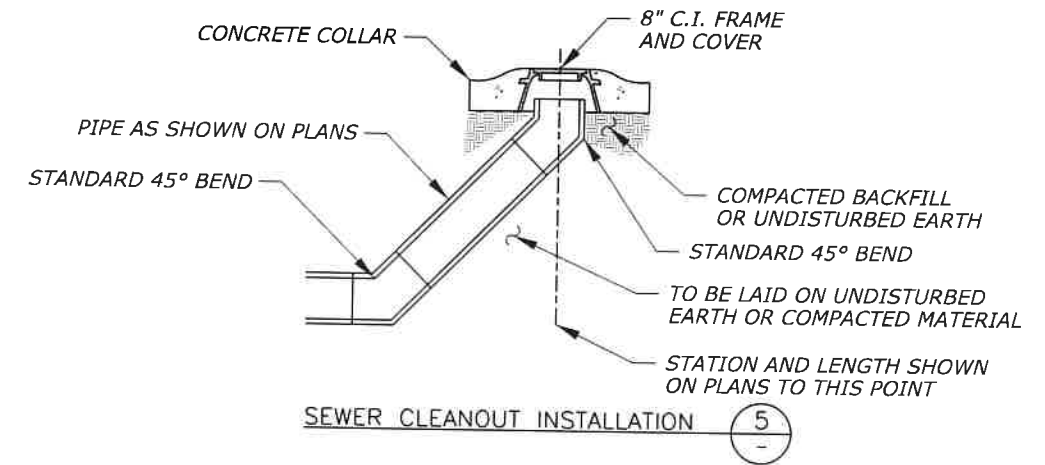
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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U10

NOTE:
See Sheets U15 to U34 for utility details.



GRAVITY SEWER LINE
STATIONING ALONG CENTERLINE OF SANITARY SEWER



STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U11

NOTES

- EXISTING HANDHOLE HAS BEEN PAVED OVER. LOCATE AND REMOVE AC COVERING. APPROXIMATE LOCATION N 2084610.57, E 6802800.86. ADJUST TO GRADE AND INSTALL HEAVY TRAFFIC RATED LID AND PATCH PAVING AS NECESSARY.
- CONTRACTOR SHALL VERIFY SIZE AND CONDITION OF THE EXISTING HANDHOLE AND REPLACE HANDHOLE IF 3-WAY JUNCTION DOES NOT FIT AT NO ADDITIONAL COST TO THE GOVERNMENT.
- ALL HANDHOLES ARE TO BE CONFIGURED IN SNOW PLOW APRON AS SHOWN ON DETAILS 1 & 2 ON SHEET U23.
- SEE SHEET U24 FOR MANHOLE AND HANDHOLE COORDINATES.
- ELECTRICAL AND COMMUNICATION HANDHOLES ARE PER DETAIL 2 SHEET U25 AND DETAIL 4 SHEET U25.
- HANDHOLE LIDS ARE TYPE 5 INCIDENTAL LIDS PER U26.

EXISTING 16" VCP SEWER AND DUCT BANK ILLUSTRATED BASED ON RECORD PLANS. AS FIRST ORDER OF WORK, CONTRACTOR SHALL DETERMINE LOCATIONS AND ADVISE COR OF ANY CONFLICTS WITH DESIGN INTENT OF THESE PLANS.

EXPOSE AND CONNECT TO EXISTING HANDHOLE PB-30 SEE NOTES 1-4

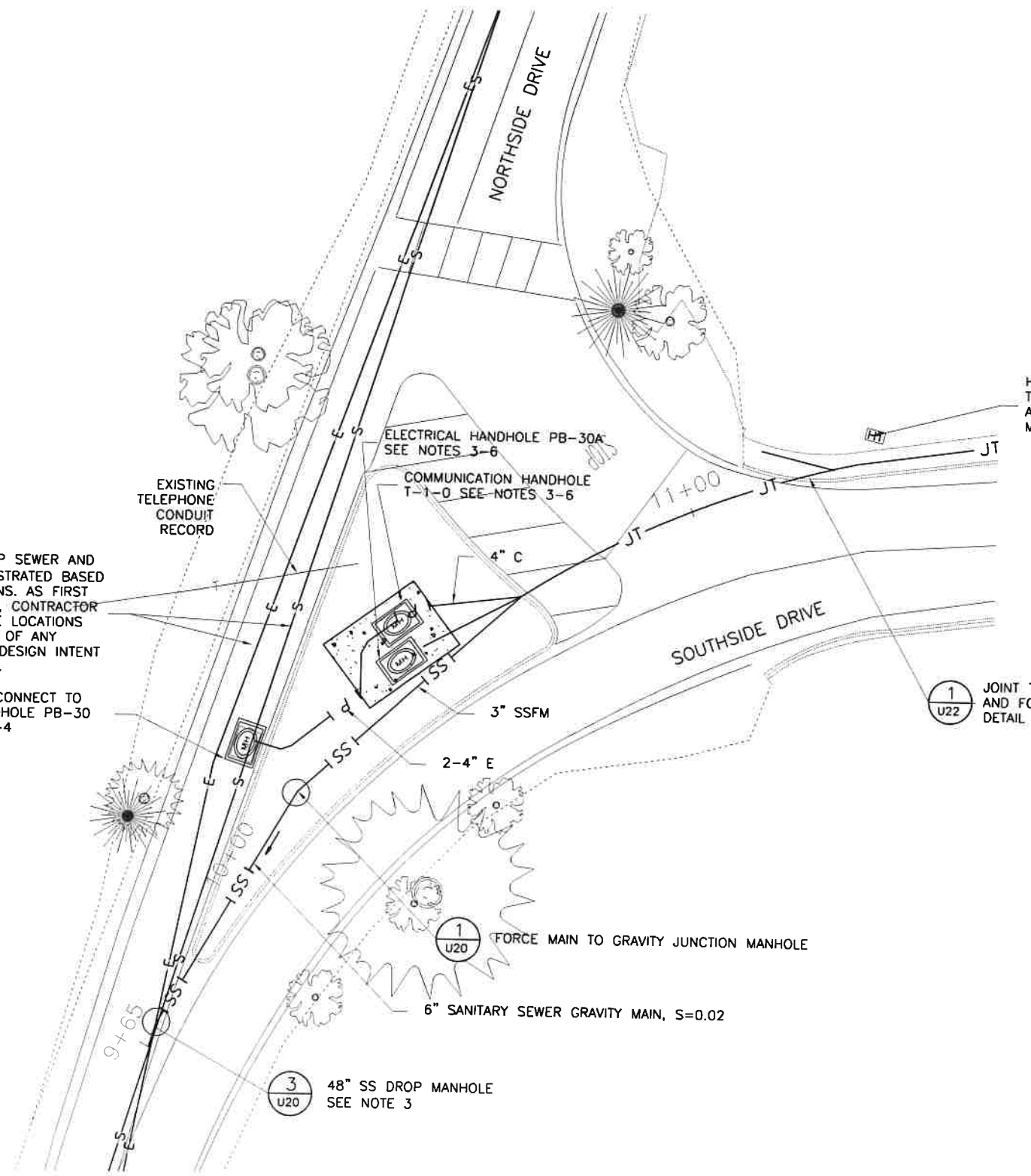
HEAT TRACE HANDHOLE WITH HEAT TRACE END OF CIRCUIT LIGHT ASSEMBLY INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

1 U22 JOINT TRENCH WITH CE-HT DUCT BANK AND FORCE MAIN IN ROADWAY. SEE DETAIL

1 U20 FORCE MAIN TO GRAVITY JUNCTION MANHOLE

3 U20 48" SS DROP MANHOLE SEE NOTE 3

1 U11 POHONO BRIDGE SITE PLAN



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**NORTHSIDE DRIVE
UTILITY CONNECTION
DETAILS**

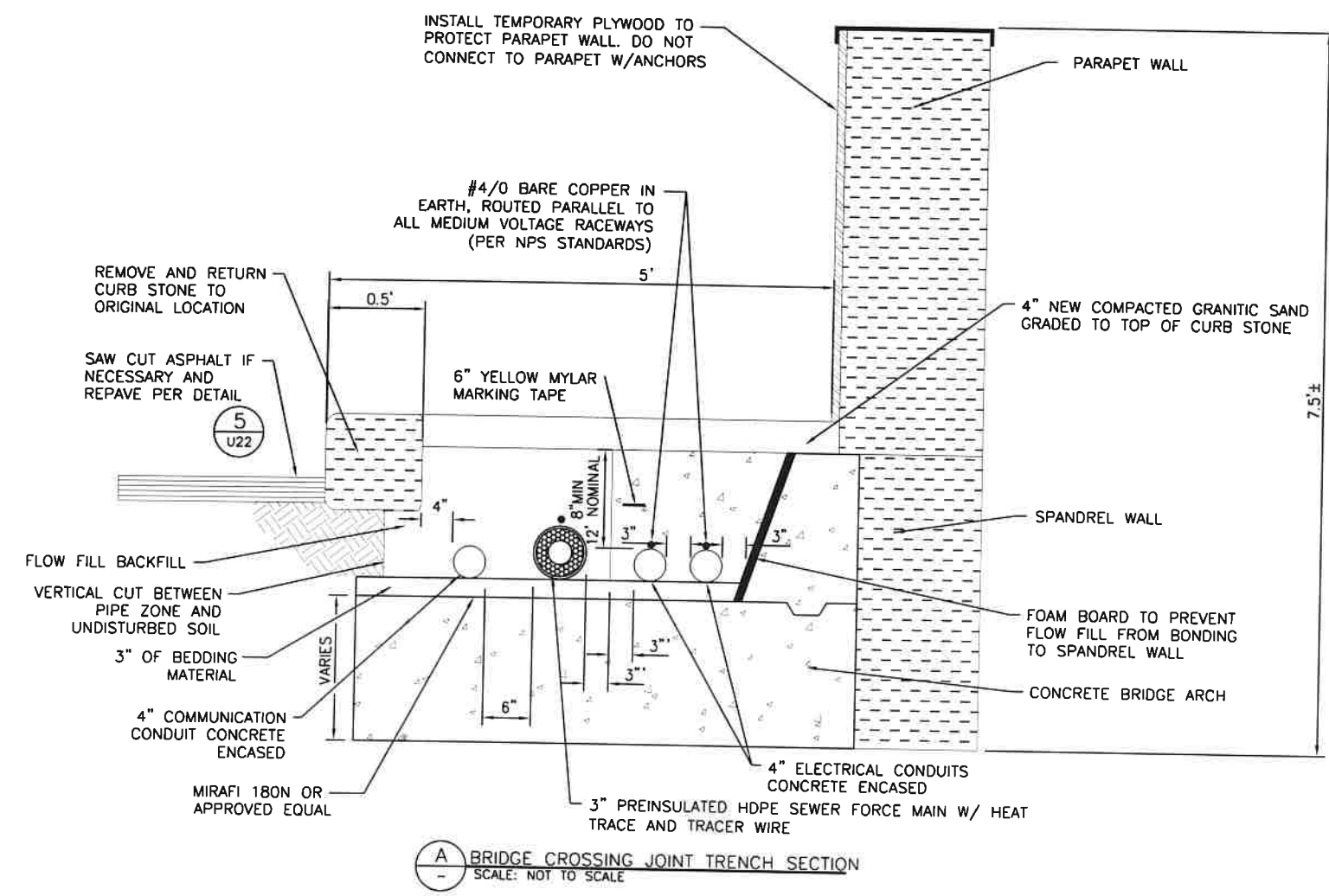
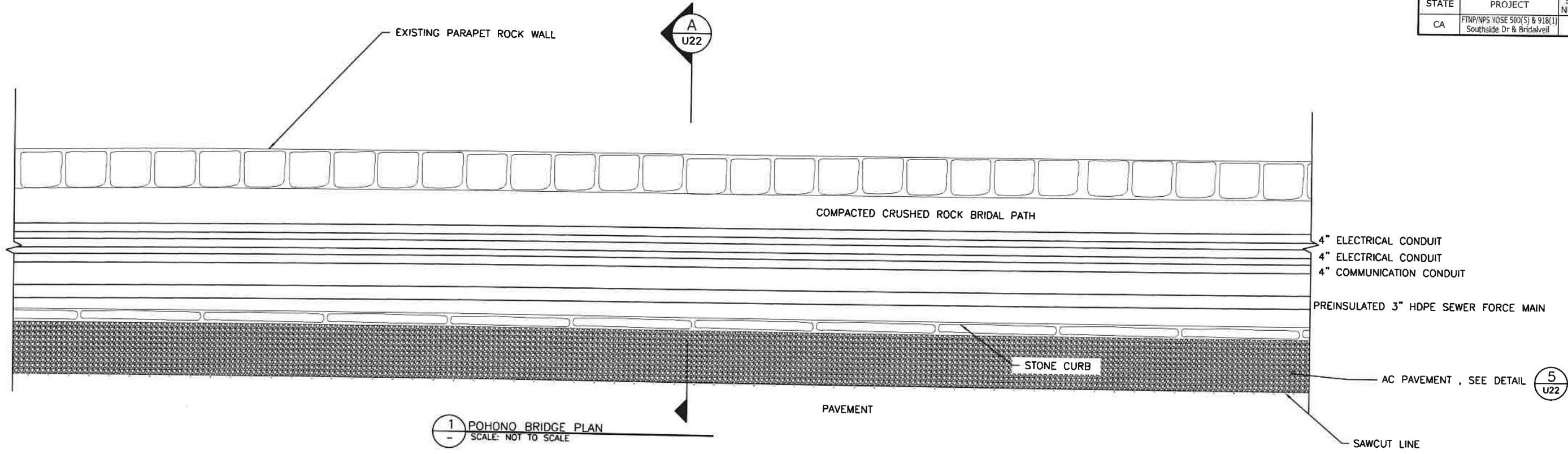
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5/11/2020

STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U12



NOTES:

- 20'-0" SECTIONS OF FUSED HDPE SHALL BE CENTERED LONGITUDINALLY OVER THE MIDDLE OF THE CONCRETE ARCHES.
- ONLY INSTALL INSULATED HDPE WITH HEAT TRACE, WHEN TOP OF PIPE IS LESS THAN 3 FT MINIMUM TRENCH COVER.
- SEE SHEETS U1 AND U7 FOR SSFM PROFILES. SSFM SHOWN ON THIS SHEET FOR CLARITY ONLY.
- INSULATE EXPOSED PIPE IN VAULT WITH 2-1/2" PRE-FORMED INSULATION.
- SEE ELECTRICAL PLANS FOR HEAT TRACE WIRE INSTALLATION.



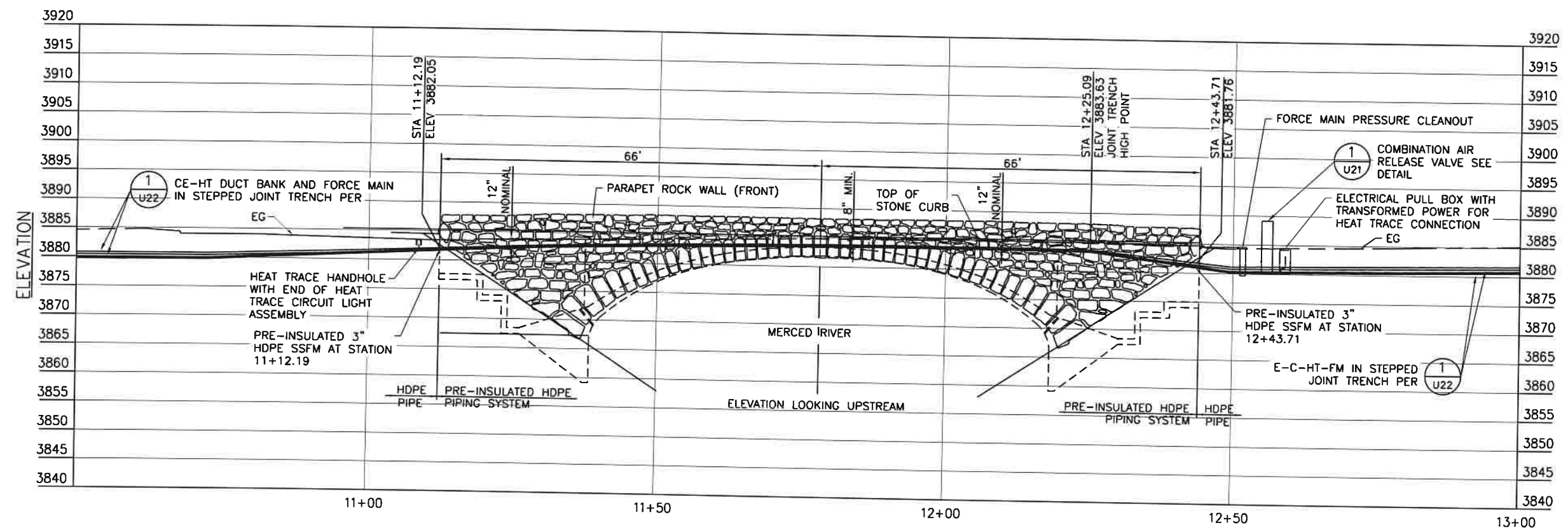
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**POHONO BRIDGE CROSSING
PLAN AND DETAILS**

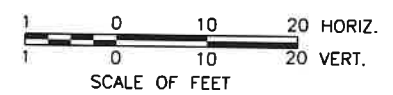
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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U13



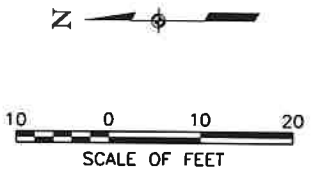
1 POHONO BRIDGE ELEVATION



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

POHONO BRIDGE CROSSING PROFILE

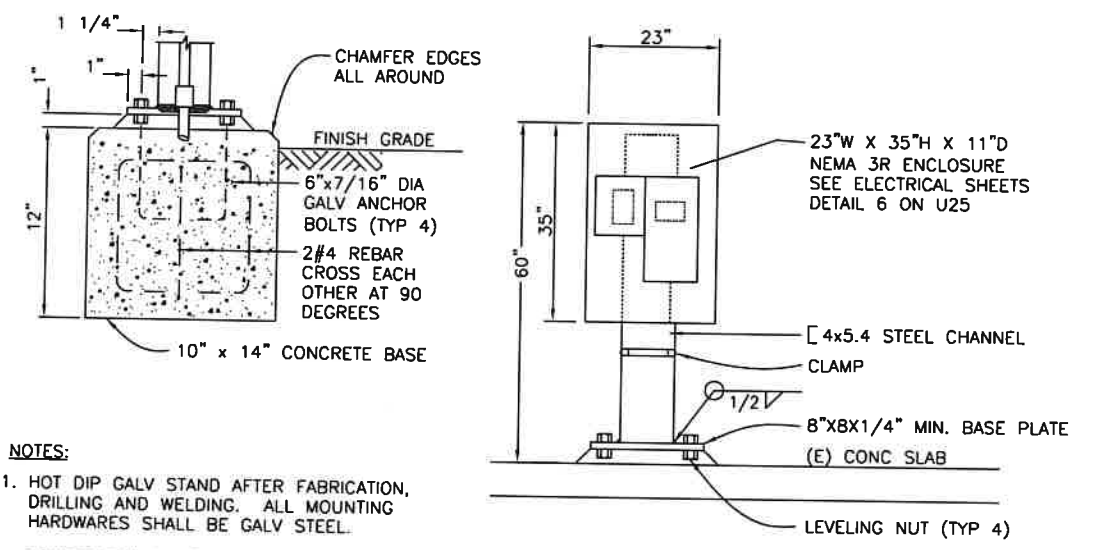
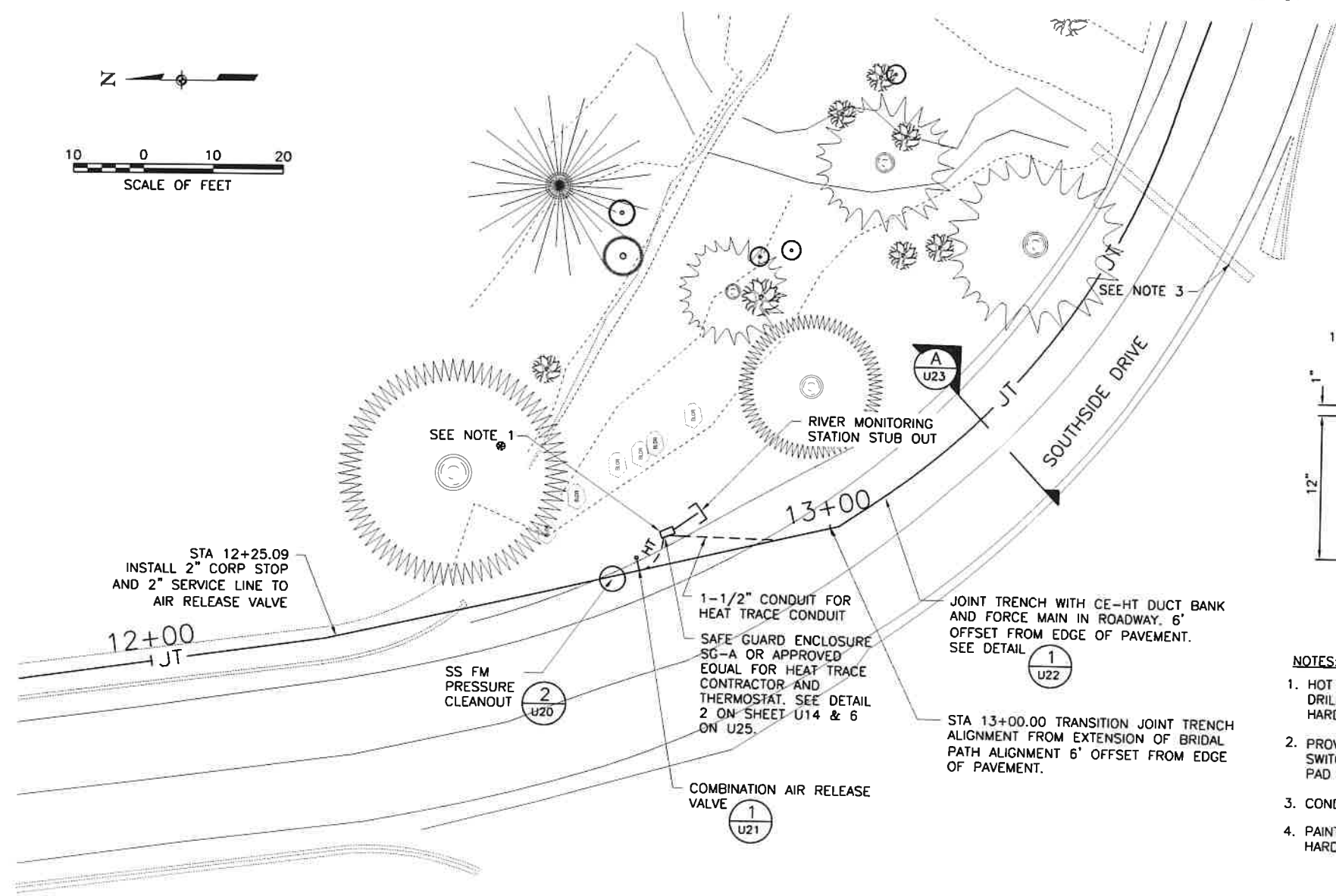
STATE	PROJECT	SHEET NUMBER
CA	FINP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U14



SEE SHEET U1

NOTES

1. SEE SHEET U24 FOR SAFE GUARD CONTROL ENCLOSURE COORDINATES.
2. REPLACE ALL SNOW STAKES AND CULVERT MARKERS REMOVED FROM ROAD SHOULDERS DURING CONSTRUCTION.
3. IF EXISTING CULVERTS OR END SECTIONS ARE CUT OR DAMAGED DURING CONSTRUCTION REPLACE ENTIRE CULVERT.



NOTES:

1. HOT DIP GALV STAND AFTER FABRICATION, DRILLING AND WELDING. ALL MOUNTING HARDWARES SHALL BE GALV STEEL.
2. PROVIDE 2#10, 1#10G BETWEEN DISCONNECT SWITCH AND CONTROLLER. SWITCH SHALL BE PAD LOCKABLE.
3. CONDUIT PER PLAN VIEW.
4. PAINT ALL EXPOSED EQUIPMENT, STEEL, HARDWARE WOSKIE/SEAL SKIN BROWN.

2 HEAT TRACE CONTROL BOX MOUNTING DETAIL

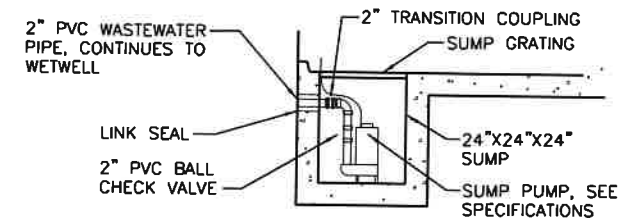
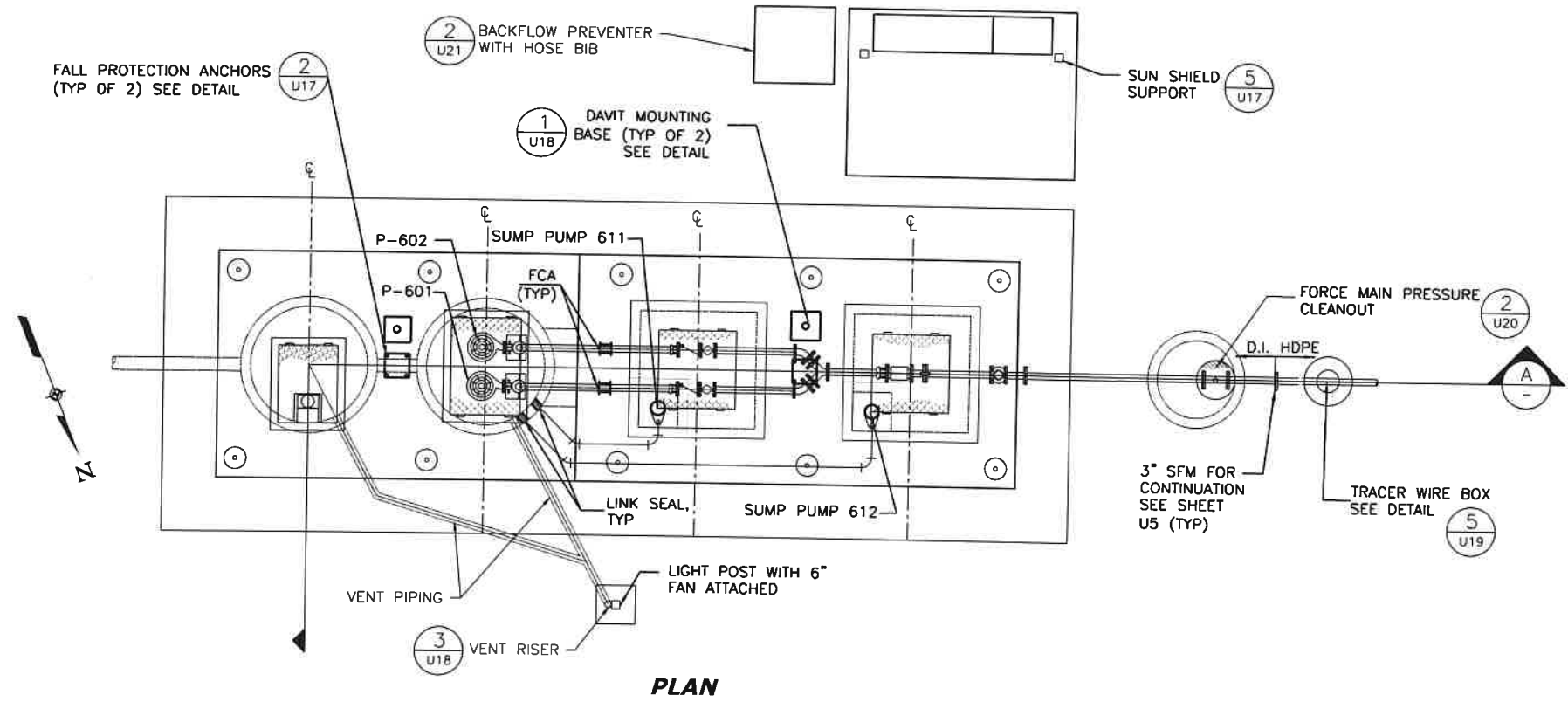
1 POHONO BRIDGE HEAT TRACE DETAILS



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**POHONO BRIDGE
HEAT TRACE DETAILS**

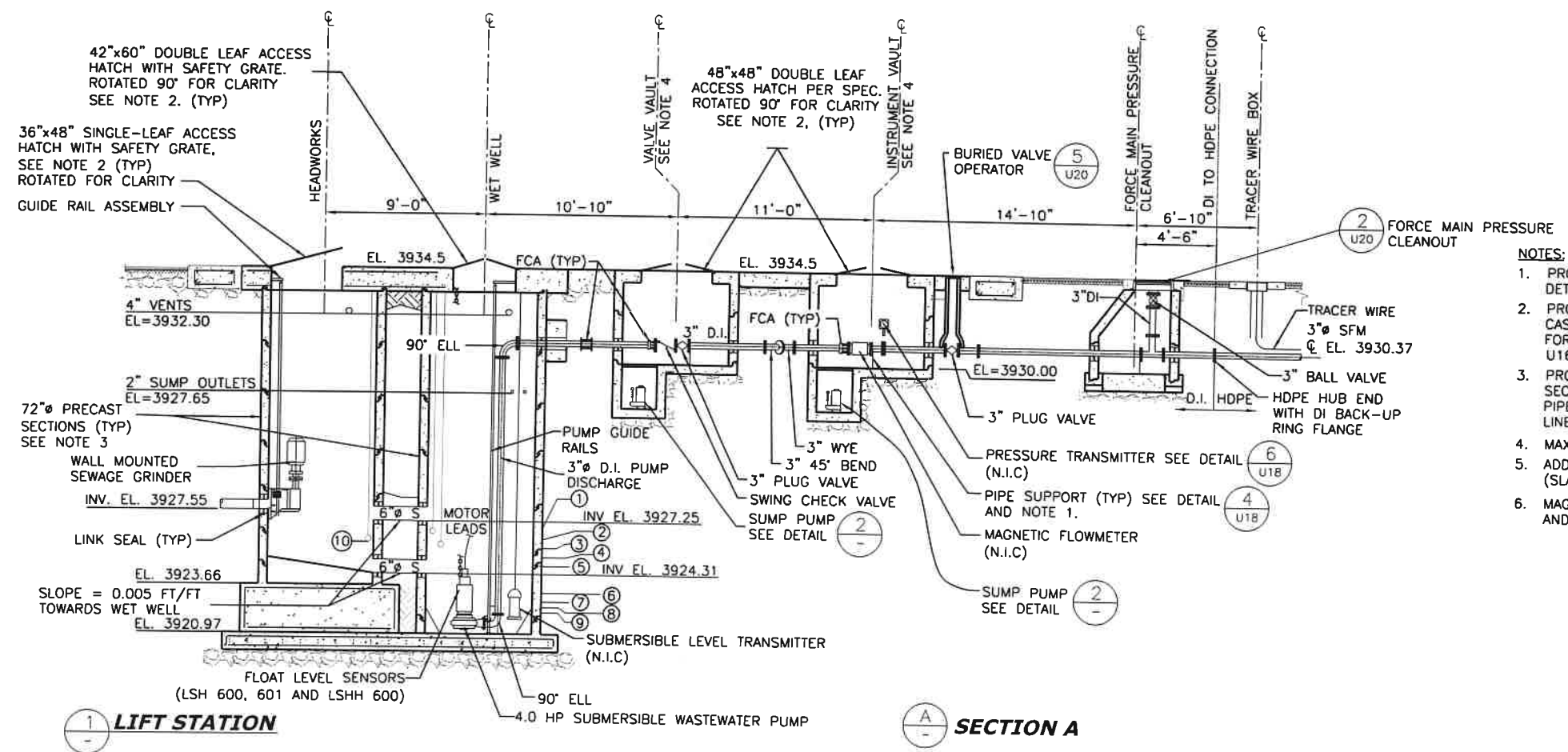
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NOTE:
FOR SUMP STRUCTURAL AND GRATING DESIGN, SEE DRAWING U16.

2 SUMP PUMP DETAIL

BRIDALVEIL LIFT STATION CONTROL SETPOINTS			
CONTROL PT. NO.	CONTROL POINTS	DEVICE TAG	CONTROL ELEV.
(N.I.C)	① HIGH HIGH LEVEL ALARM	LSHH 600	3927.35
(N.I.C)	② HIGH LEVEL ALARM	LSH 600	3926.95
	③ HIGH LEVEL ALARM	LIT 600	3927.6
	④ STANDBY PUMP ON	LIT 600	3927.1
	⑤ LEAD PUMP ON	LIT 600	3926.6
	⑥ STANDBY PUMP OFF	LIT 600	3923.3
	⑦ LEAD PUMP OFF	LIT 600	3922.8
	⑧ LOW LEVEL ALARM	LIT 600	3922.5
	⑨ LOW LOW LEVEL ALARM	LIT 600	3922.2
(N.I.C)	⑩ INFLUENT LEVEL FLOAT	LSH 601	3927.15



NOTES:

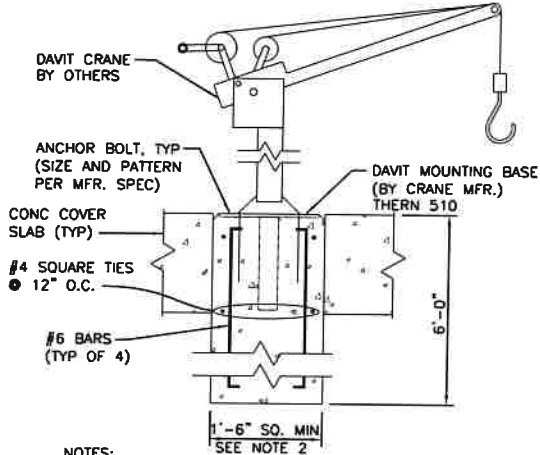
1. PROVIDE PIPE SUPPORTS AT FLANGED VALVE AND EQUIPMENT INSTALLATIONS. SEE DETAIL 4 ON SHEET U18.
2. PROVIDE H-20 RATED ACCESS HATCHES AND LIDS WITH FRAMES EMBEDDED INTO CAST-IN-PLACE COVER SLAB IN ACCORDANCE WITH SCRS APPENDIX A SEC. 08 11 00. FOR ADDITIONAL REINFORCEMENT AT ACCESS HATCHES, SEE PLAN VIEW ON SHEET U16. ALL FRAMES SHALL HAVE GASKETS.
3. PROVIDE AND INSTALL A NEW 72-INCH PRE-CAST MANHOLE PER SCRS APPENDIX A SEC. 33 39 13. COORDINATE LOCATION AND ORIENTATION OF NEW INFLUENT PIPE, GRINDER, AND ACCESS HATCH AT HEADWORKS MANHOLE WITH NEW SEWER LINE LOCATION.
4. MAXIMUM VALVE AND INSTRUMENT VAULT DEPTH SHALL BE 5'-0".
5. ADD COLOR TO ALL CAST IN PLACE CONCRETE TO PROVIDE BLACK CONCRETE (SLABS, APRONS, COVERS, ETC.)
6. MAGNETIC FLOW METER, PRESSURE TRANSMITTER, LEVEL TRANSMITTER AND LEVEL SENSORS ARE NOT INCLUDED IN CONTRACT (N.I.C).



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

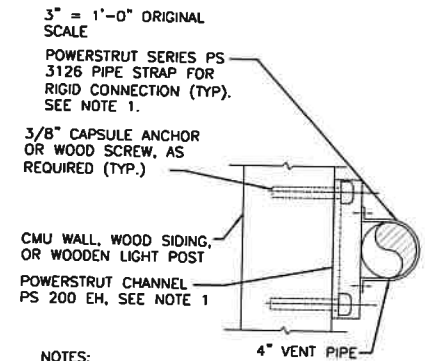
LIFT STATION PLAN AND SECTION

STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U18



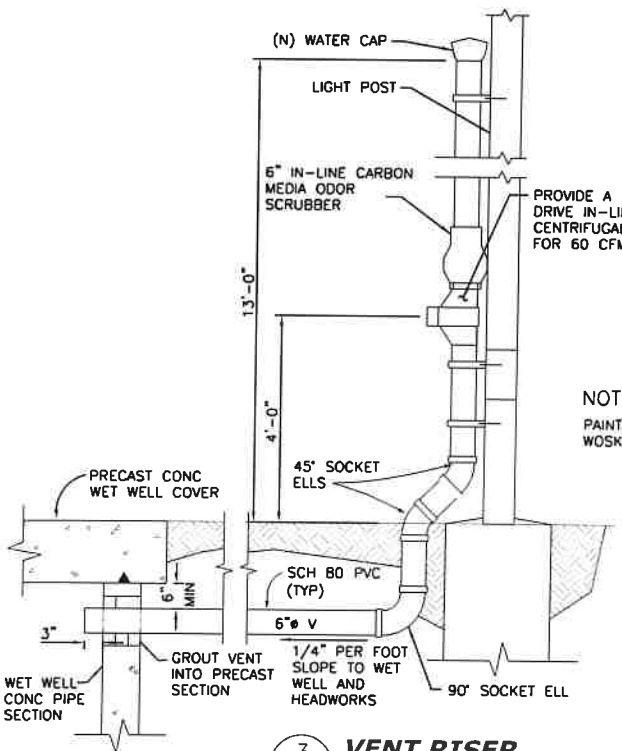
- NOTES:**
1. INSTALL CONCRETE BASE LEVEL WITH FINE BROOM FINISH. SET TOP OF BASE FLUSH WITH TOP OF COVER SLAB.
 2. INCREASE BASE FOOTPRINT IN ORDER TO ACCOMMODATE BOLT PATTERN AND MINIMUM BOLT CLEARANCE NOTED.

1 **DAVIT MOUNTING BASE DETAIL**



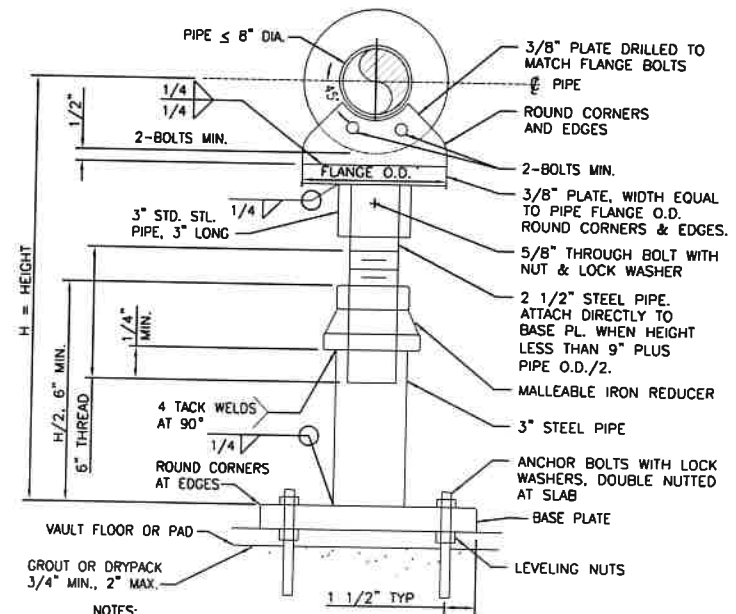
- NOTES:**
1. OR EQUIVALENT PRODUCT BY B-LINE; OR EQUAL.
 2. THE CENTER OF THE LIGHT POST AT BRIDALVEIL LIFT STATION CONTAINS CONDUIT. COORDINATE INSTALLATION WITH ELECTRICAL WORK.

2 **TYPICAL VENT RISER SUPPORT DETAIL**



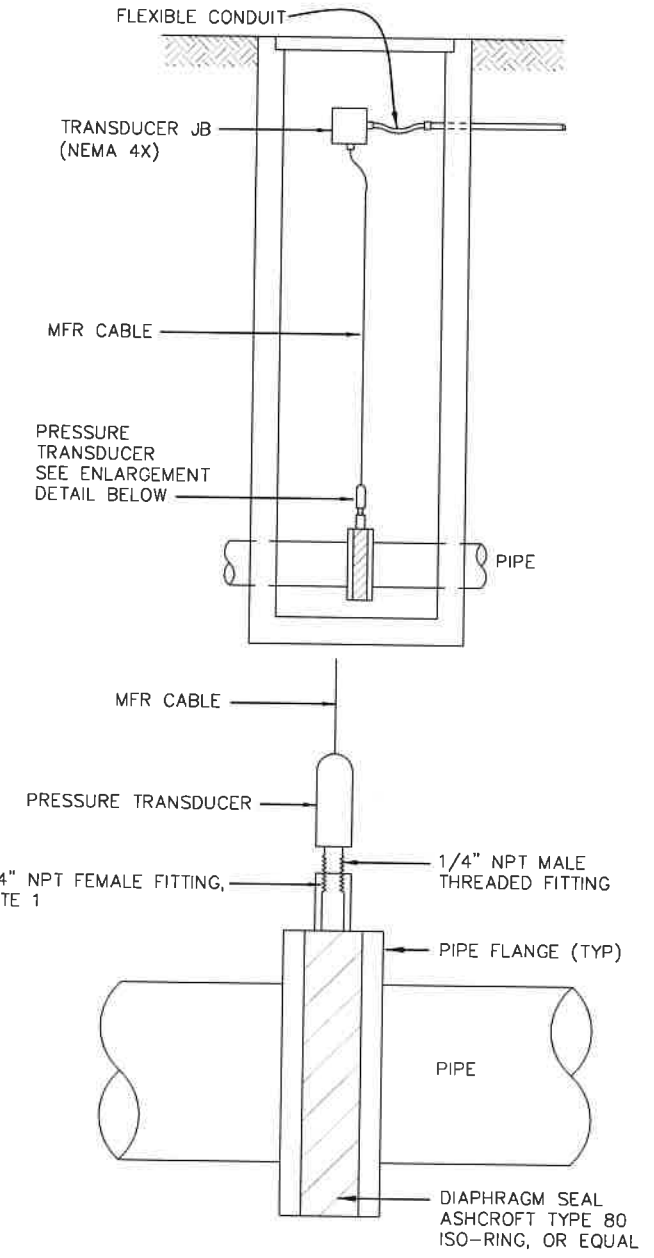
NOTE:
PAINT ALL EXPOSED PIPE AND FIXTURES WOSKIE/SEAL SKIN BROWN.

3 **VENT RISER**



- NOTES:**
1. AS AN ALTERNATE, IF ADJUSTMENT IS NOT NECESSARY, DELETE 2 1/2" PIPE AND REDUCER AND WELD 3" STEEL PIPE DIRECTLY TO 3/8" PLATE ATTACHED TO PIPE FLANGE.
 2. DO NOT CUT OR WELD AFTER GALVANIZING.
 3. PIPE SUPPORT MAY BE ORIENTATED IN ANY DIRECTION.

4 **PIPE SUPPORT**



6 **PRESSURE TRANSMITTER**

- GENERAL NOTES**
1. INSTALL ALL PIPING TO AVOID STRUCTURAL MEMBERS, DUCTS, FIXTURES AND OTHER OBSTRUCTIONS.
 2. THERE SHALL BE NO DIRECT CONTACT BETWEEN PIPES AND HANGER STRAPS OR BUILDING CONSTRUCTION USING HAIR FLET OF NO LESS THAN 1/2" THICKNESS.
 3. INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH LOCALLY RECOGNIZED PLUMBING CODES.
 4. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRIAL STANDARDS.

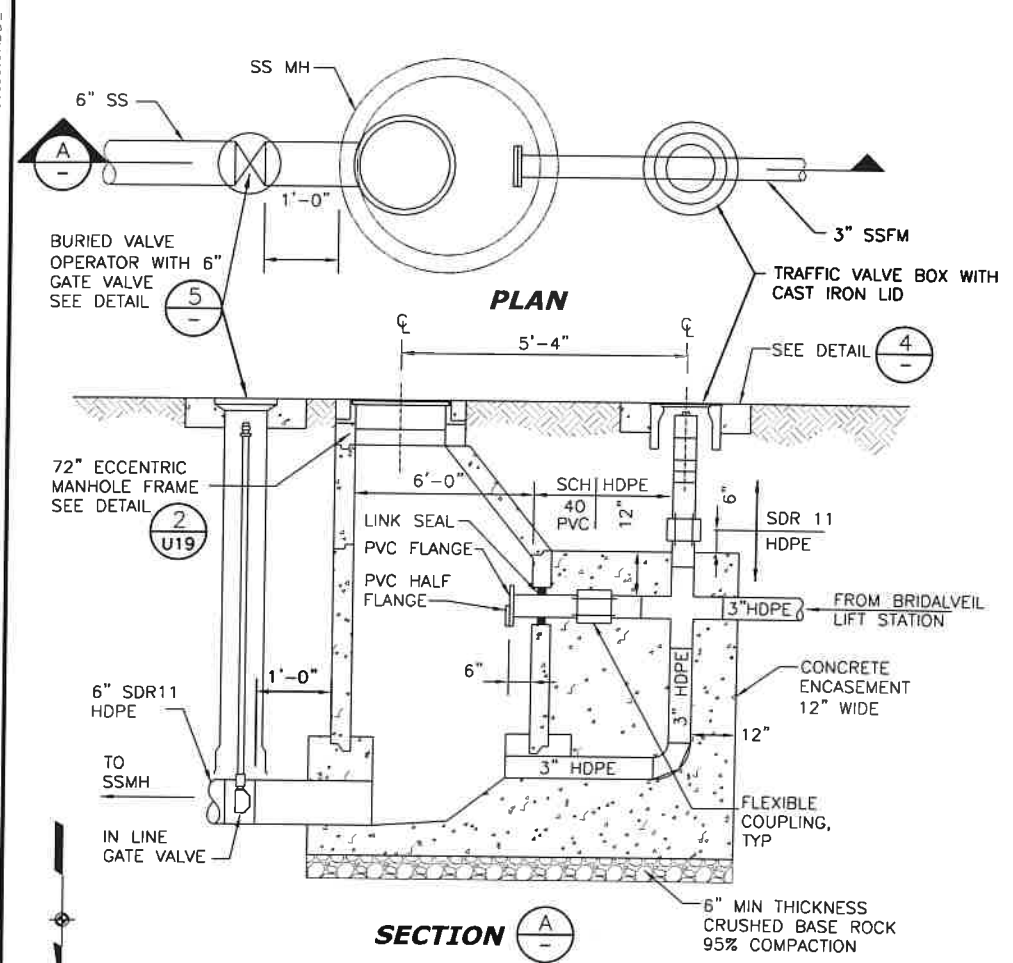
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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

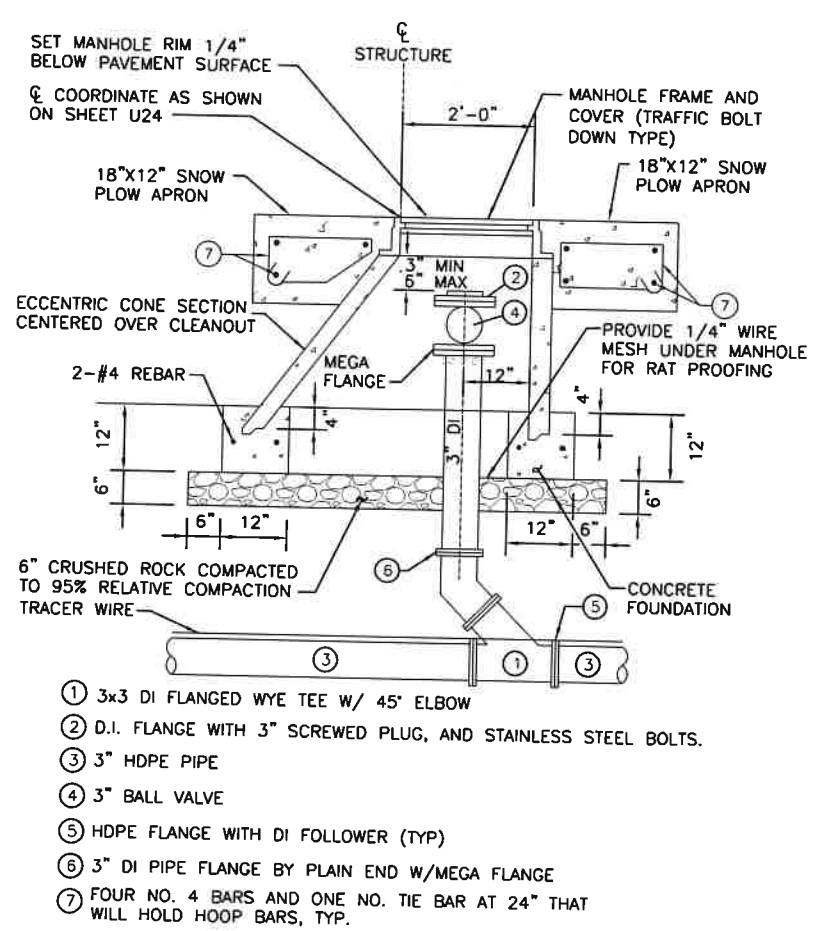
**LIFT STATION
MECHANICAL DETAILS**

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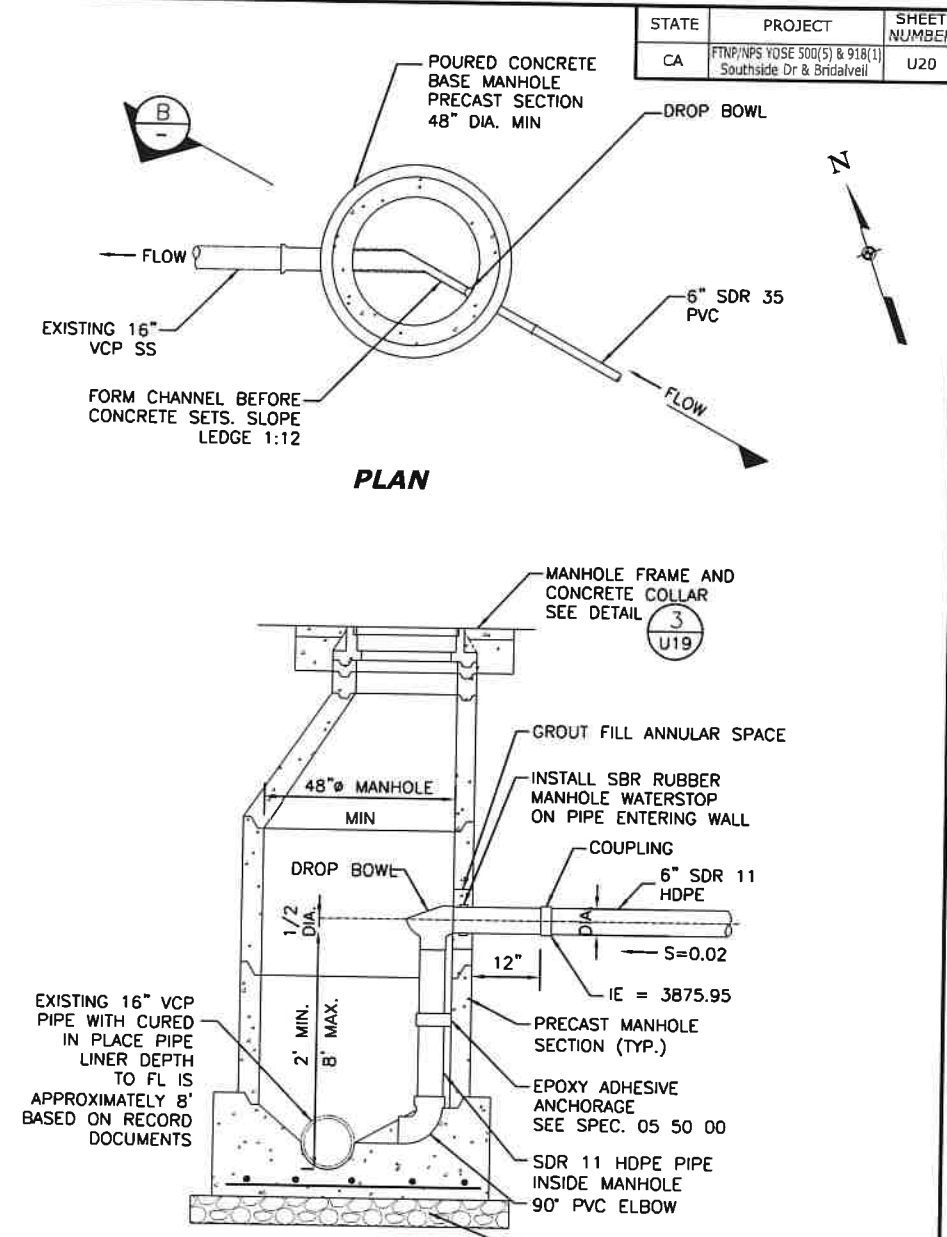
STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U20



1 - MANHOLE JUNCTION OF FORCE MAIN AND GRAVITY MAIN

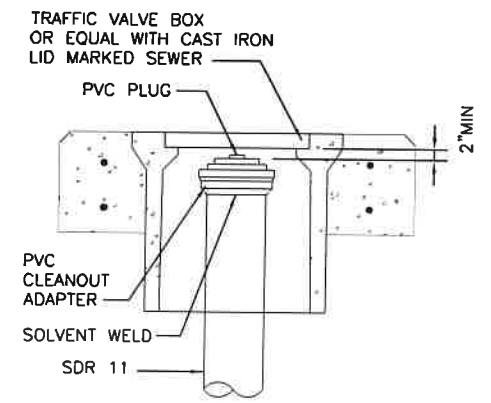


2 - SEWER FORCE MAIN PRESSURE CLEANOUT

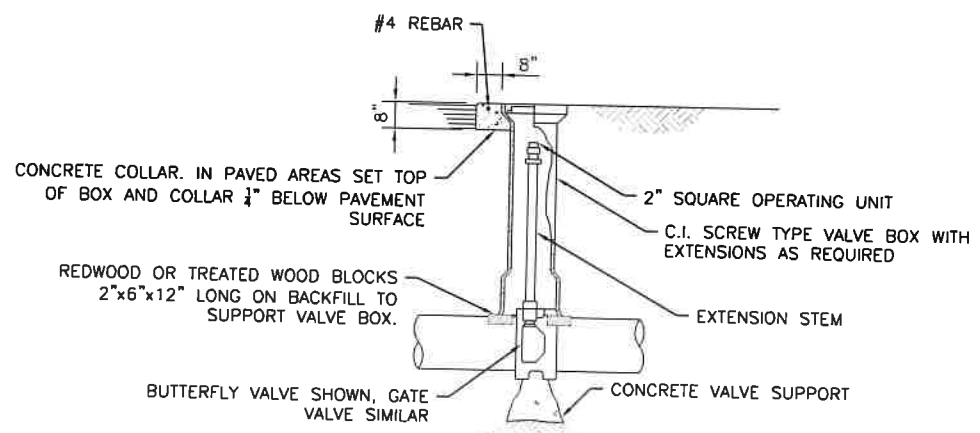


- NOTES: SECTION B
- CONSTRUCT NEW INSIDE DROP MANHOLE OVER EXISTING 16" VCP SEWER MAIN
 - USE 1/4" THICK SBR RUBBER GASKET, TO SEAL BETWEEN CONCRETE AND FLANGE OF DROP BOWL.
 - USE STAINLESS STEEL CLAMPING BRACKETS EVERY 2 FEET PROVIDED BY BOWL MANUFACTURER TO MOUNT DOWN TUBE TO WALL.
 - USE PVC SDR 35 WITH GLUE JOINTS FOR PVC PIPE AND ELBOW WITHIN MANHOLE.

3 - INSIDE DROP MANHOLE



4 - CLEANOUT FRAME AND COVER



5 - BURIED VALVE OPERATOR DETAIL



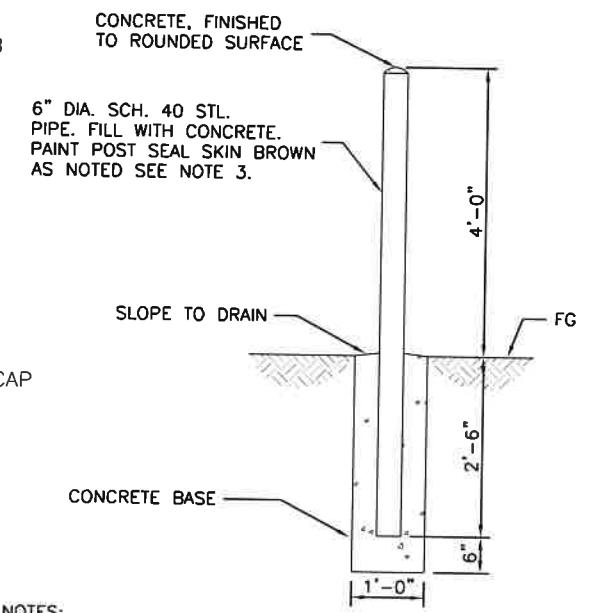
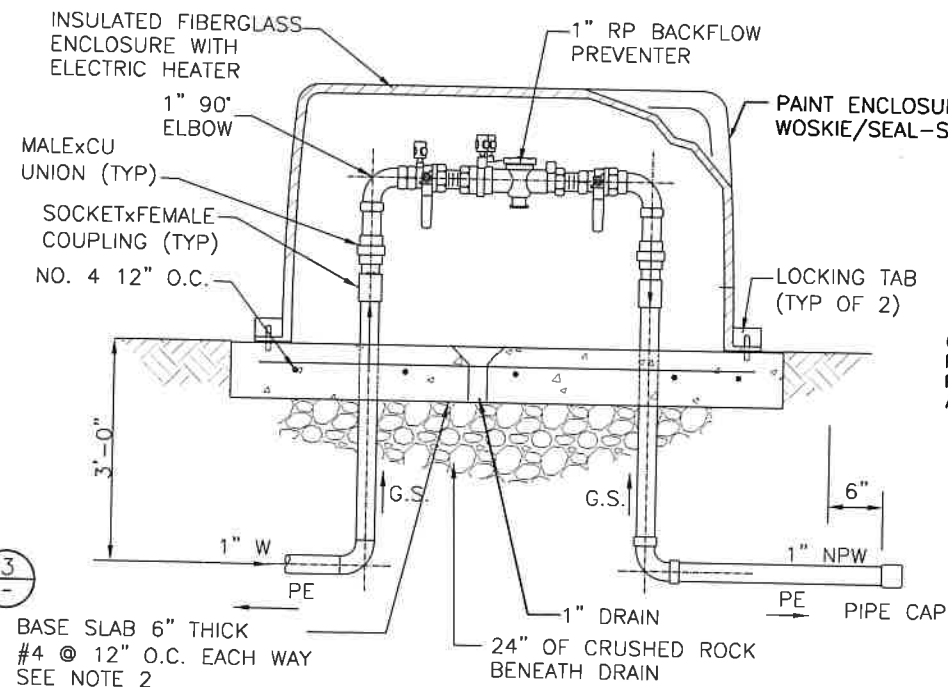
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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SEWER DETAILS
SHEET 2**

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AIR RELEASE VALVE PARTS LIST			
①	SERVICE SADDLE, DOUBLE STRAP, BRONZE	⑧	13"x24" METER BOX RATED FOR H2O LOADING WITH CAST IRON LID
②	2" SCHEDULE 40 GALVANIZED STEEL	⑨	NOT USED
③	2" CLASS 150 GALV. IRON 90° ELBOW W/ 1" SCH 40 GALVANIZED STEEL PIPE BETWEEN ELLS	⑩	2" BALL VALVE
④	2" CLASS 150 GALV IRON 90° ELBOW	⑪	1" CLASS 150 GALV. IRON 90° ELBOW
⑤	CORP STOP VALVE, BRONZE, LEFT IN OPEN POSITION	⑫	1" GALV. STEEL PIPE
⑥	CLASS 150 GALVANIZED IRON UNION		
⑦	1" COMBINATION SEWAGE VALVE APCO SERIES B01A OR ENGINEER APPROVED EQUIVALENT		

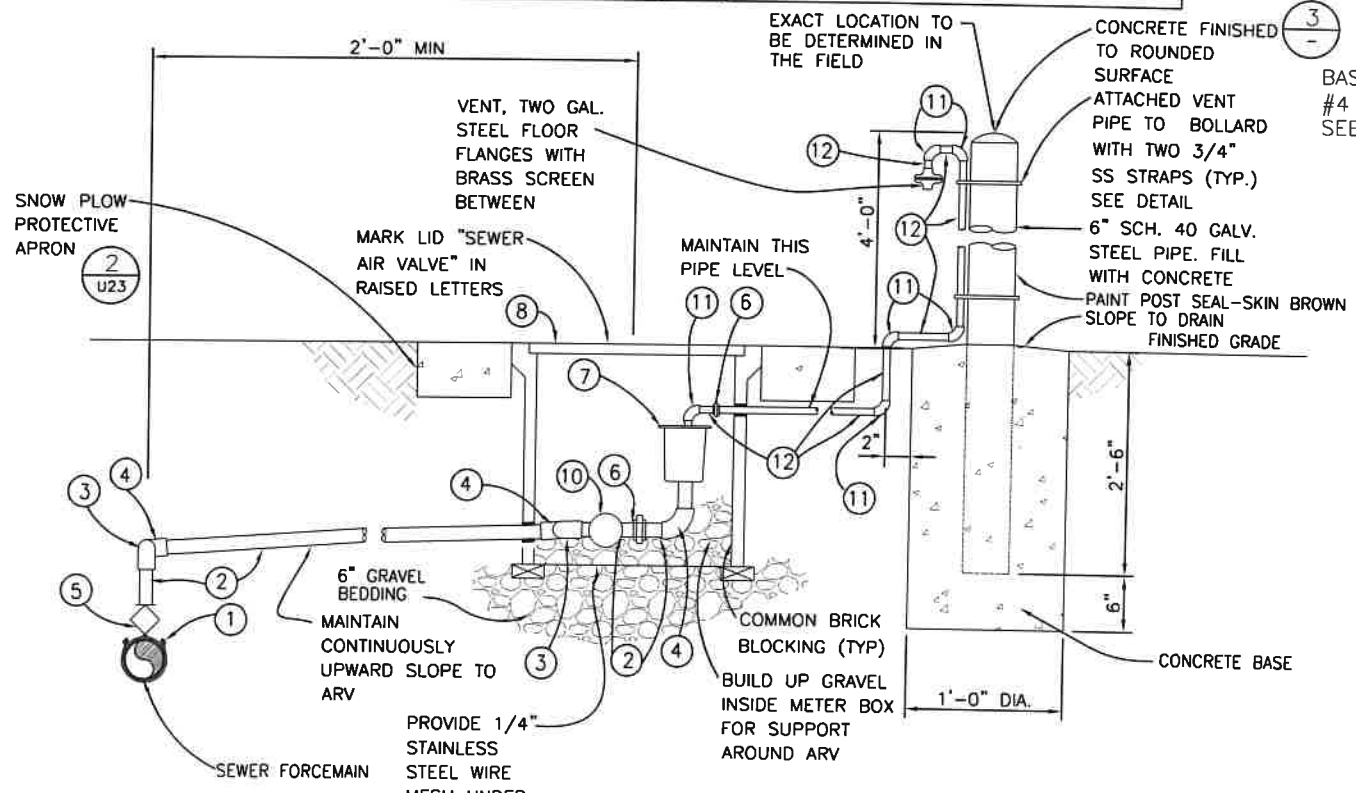


- NOTES:
1. PROVIDE ADDITIONAL ENCLOSURE ON THE SAME CONCRETE SLAB AND 50' LENGTH OF 1" HOSE, STORED INSIDE OF ADDITIONAL ENCLOSURE.
 2. SLAB FOOTPRINT DIMENSION IS 48"x48".

- NOTES:
1. INSTALL POST SO THAT IT IS VERTICAL AND FIRMLY EMBEDDED.
 2. LOCATE MARKER POSTS OFF OF LEVEL ROADS.
 3. PAINT WITH 2.5 MILS URETHANE ZINC PRIMER AND 2 COATS OF 4 MILS EACH LUSTERLESS ALKYD ENAMEL. PAINT SEAL-SKIN BROWN.

② **BACKFLOW PREVENTOR WITH HOSE BIB**

③ **BOLLARD**



- NOTE:
1. GROUT PIPE PENETRATIONS OF METER BOX W/ NON-SHRINK GROUT
 2. INSTALL SNOW PLOW APRON.
 3. SERVICE SADDLE SHALL BE RATED FOR USE WITH HDPE PIPE, PE340B, DR13.5, IPS.

① **AIR RELEASE VALVE**



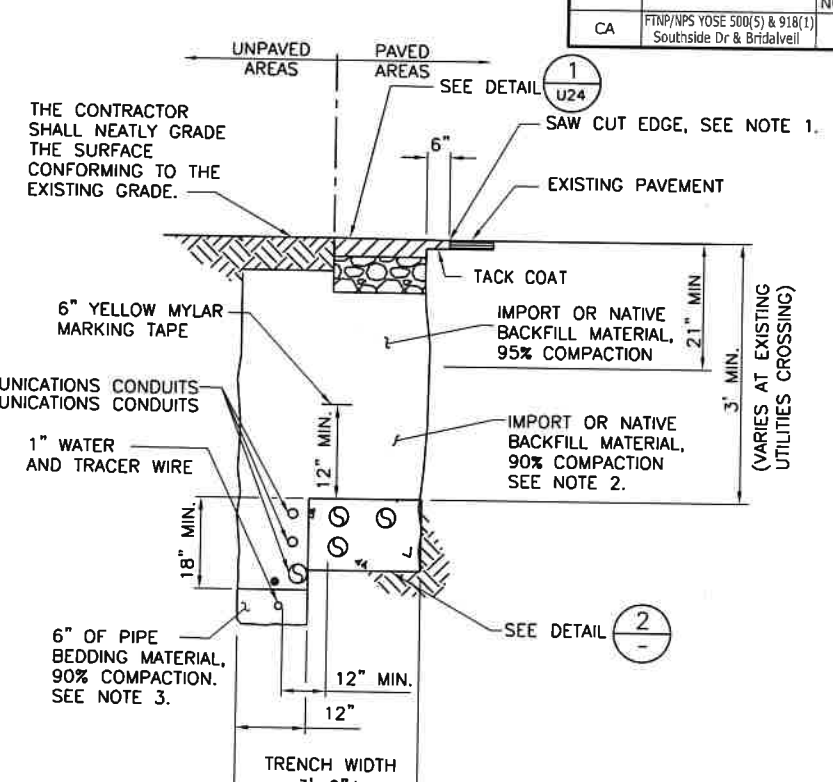
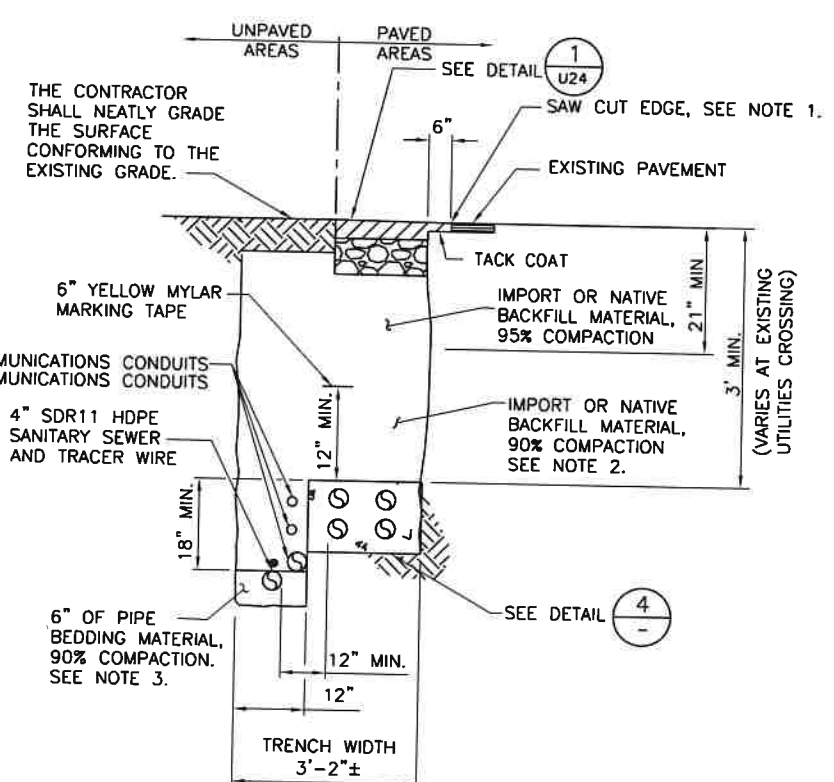
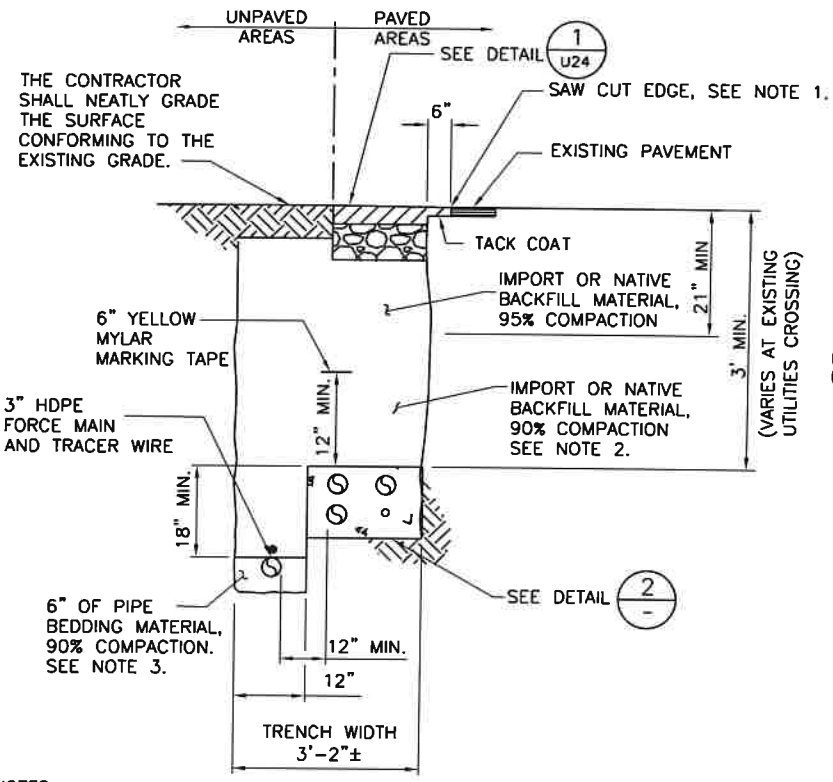
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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SEWER DETAILS
SHEET 3**

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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U22



NOTES:

1. TRENCH RESURFACING PAVEMENT SHALL NOT EXTEND BEYOND THE EXISTING EDGE OF PAVEMENT.
2. TYPICAL DEPTH TO TOP OF DUCT BANK IS 36". DEPTH WILL VARY AT EXISTING UTILITY CROSSINGS, SEE PROFILE SHEETS AND CORRESPONDING DETAILS 3 AND 4 ON THIS SHEET.
3. PLACE PIPE BEDDING MATERIAL UP TO TOP OF FORCE MAIN LINE.

NOTES:

1. TRENCH RESURFACING PAVEMENT SHALL NOT EXTEND BEYOND THE EXISTING EDGE OF PAVEMENT.
2. TYPICAL DEPTH TO TOP OF DUCT BANK IS 36". DEPTH WILL VARY AT EXISTING UTILITY CROSSINGS, SEE PROFILE SHEETS AND CORRESPONDING DETAILS 3 AND 4 ON THIS SHEET.
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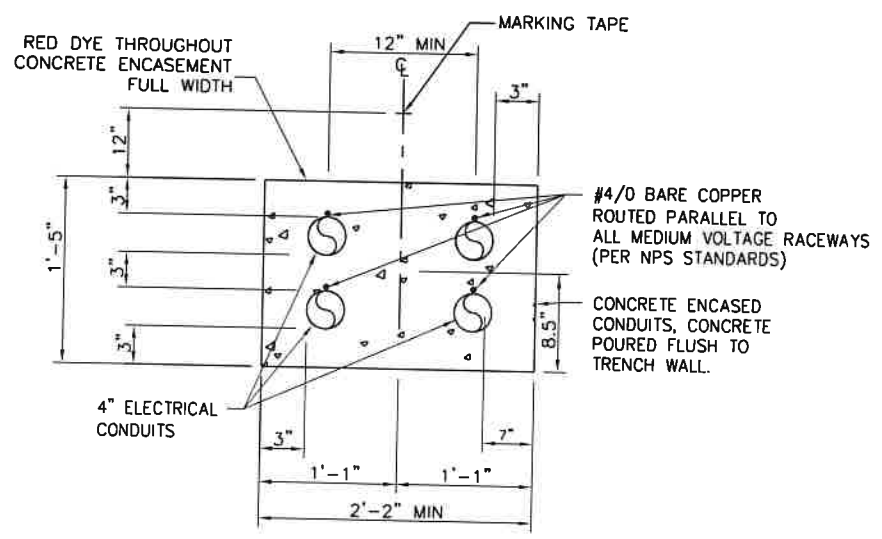
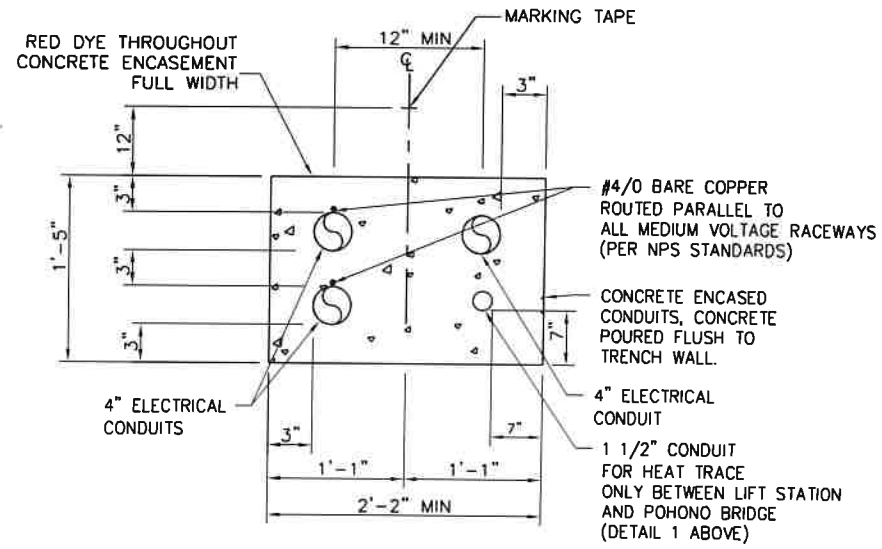
NOTES:

1. TRENCH RESURFACING PAVEMENT SHALL NOT EXTEND BEYOND THE EXISTING EDGE OF PAVEMENT.
2. TYPICAL DEPTH TO TOP OF DUCT BANK IS 36". DEPTH WILL VARY AT EXISTING UTILITY CROSSINGS, SEE PROFILE SHEETS AND CORRESPONDING DETAILS 3 AND 4 ON THIS SHEET.
3. PLACE PIPE BEDDING MATERIAL UP TO TOP OF FORCE MAIN LINE.

1
ELECTRICAL, COMMUNICATION AND FORCE MAIN JOINT TRENCH SECTION
SCALE: NOT TO SCALE

3
ELECTRICAL, COMMUNICATION AND FORCE MAIN JOINT TRENCH SECTION
SCALE: NOT TO SCALE

5
ELECTRICAL, COMMUNICATION AND FORCE MAIN JOINT TRENCH SECTION
SCALE: NOT TO SCALE



2
COMMUNICATION AND ELECTRICAL DUCT DETAIL
SCALE: NOT TO SCALE

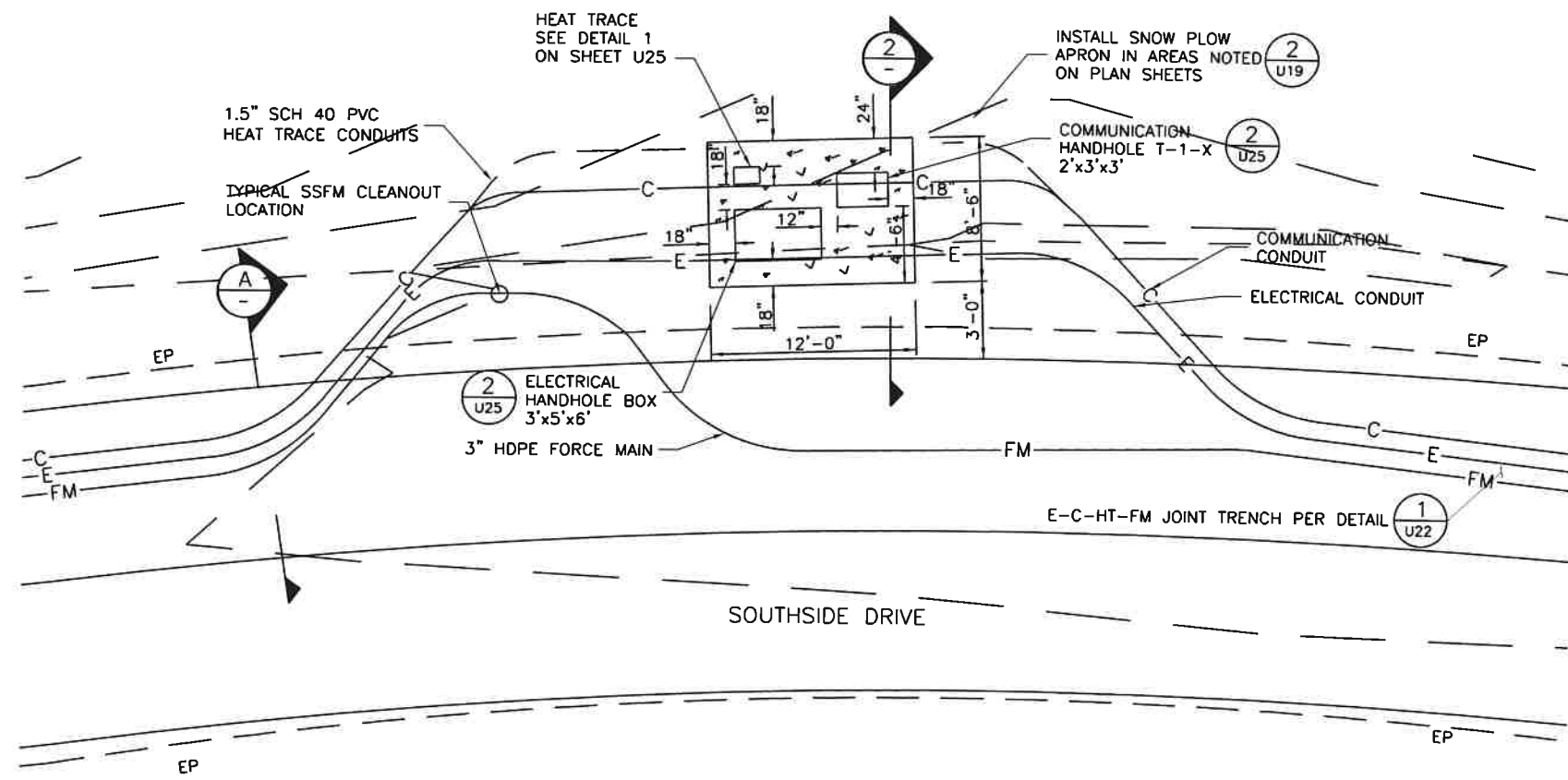
4
COMMUNICATION AND ELECTRICAL DUCT DETAIL
SCALE: NOT TO SCALE



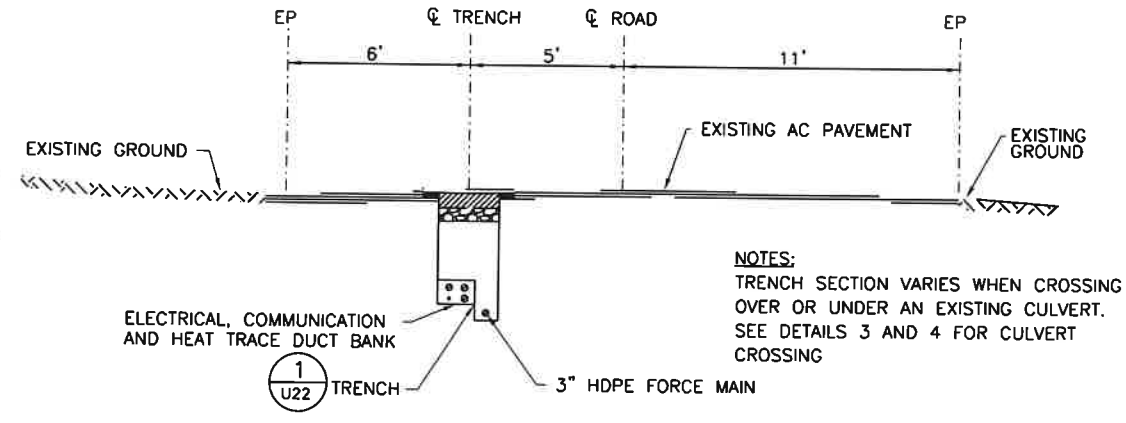
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**UTILITY TRENCH
DETAILS 1**

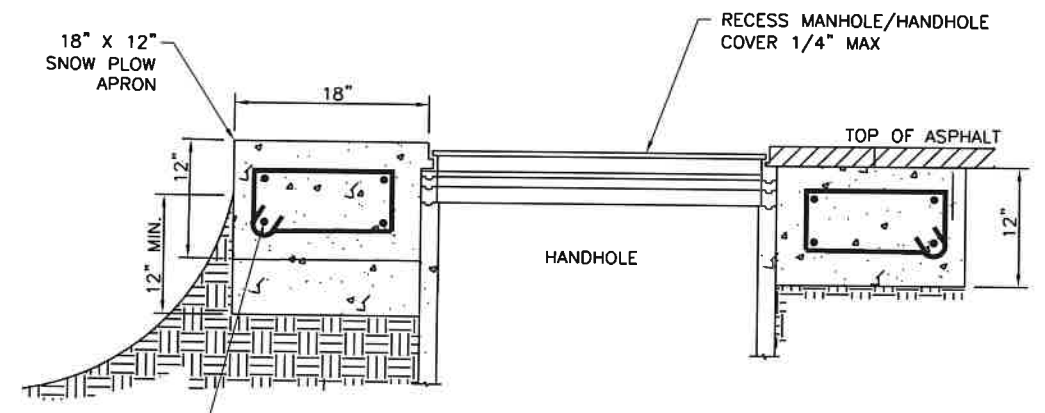
STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U23



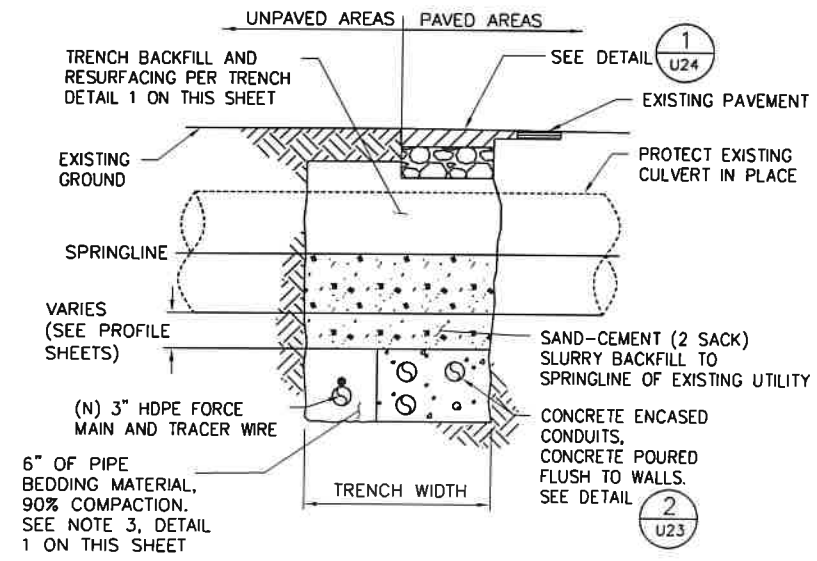
1 TYPICAL HANDHOLE LOCATION PLAN
SCALE: NOT TO SCALE



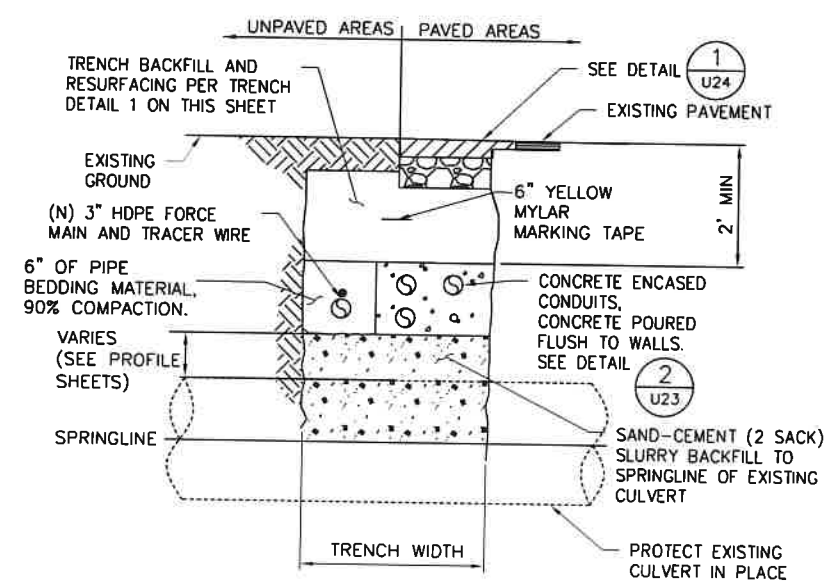
A CROSS SECTION ALONG CENTERLINE OF THE TRENCH
SCALE: NOT TO SCALE



2 SNOW PLOW APRON HANDHOLE INSTALLATION
SCALE: NOT TO SCALE



3 CEMENT SLURRY UTILITY CROSSING UNDER CULVERT
SCALE: NOT TO SCALE



4 CEMENT SLURRY UTILITY CROSSING OVER CULVERT
SCALE: NOT TO SCALE



U.S. DEPARTMENT OF TRANSPORTATION
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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**UTILITY TRENCH
DETAILS 2**

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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalvalley	U24

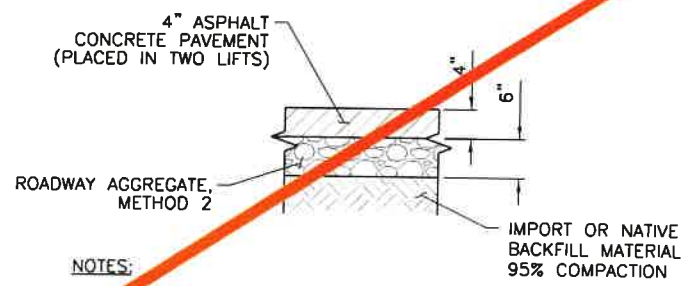
ELECTRICAL HANDHOLES				
HANDHOLE NO.	NORTHING	EASTING	SHEET	SNOW PLOW APRON
PB-30	2084607.90	6802799.74	U11	YES
PB-30A	2084581.30	6802814.41	U11	YES
HH801	2084280.16	6802885.80	U1	YES
HH802	2083889.38	6803254.73	U2	YES
HH803	2083766.00	6803538.76	U2	YES
HH804	2083906.72	6803978.63	U3	YES
HH805	2083960.50	6804300.00	U3	YES
HH806	2084098.54	6804614.92	U3	YES
HH807	2084408.43	6805036.75	U4	YES
HH808	2084540.00	6805460.53	U4	YES
HH809	2084643.55	6805952.19	U4	YES
HH810	2084705.46	6806275.49	U5	YES
HH811	2084767.68	6806585.07	U5	YES
HH812	2084804.00	6806821.24	U5	YES
HH813	2084664.08	6806886.12	U5	YES
HH814	2084487.50	6807121.50	U5	YES
HH815	2084492.89	6807123.03	U6	NO
HH815B	2084490.68	6807130.64	U6	NO
HH816	2084299.70	6806996.20	U6	NO
HH816B	2084298.50	6807000.10	U6	NO

COMMUNICATION HANDHOLES				
HANDHOLE NO.	NORTHING	EASTING	SHEET	SNOW PLOW APRON
T-1-0	2084581.30	6802814.41	U11	YES
T-1-1	2084278.67	68022994.68	U1	YES
T-1-2	2083884.78	6803261.99	U2	YES
T-1-3	2083773.29	6803546.16	U2	YES
T-1-4	2083913.92	6803985.05	U3	YES
T-1-5	2083963.41	6804308.69	U3	YES
T-1-6	2084106.47	6804620.18	U3	YES
T-1-7	2084415.45	6805041.83	U4	YES
T-1-8	2084540.61	6805469.91	U4	YES
T-1-9	2084648.28	6805961.08	U4	YES
T-1-10	2084705.46	6806283.19	U5	YES
T-1-11	2084772.29	6806592.87	U5	YES
T-1-12	2084809.07	6806829.34	U5	YES
T-1-13	2084652.53	6806883.24	U5	YES
T-1-14	2084584.61	6806945.30	U5	YES
T-1-15	2084487.21	6807121.21	U6	NO

HEAT TRACE SAFE GUARD CABINET				
NAME	NORTHING	EASTING	SHEET	SNOW PLOW APRON
HEAT TRACE CABINET	2084375.26	6802875.91	U14	NO

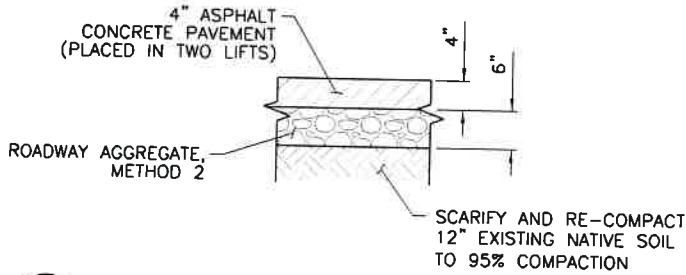
SANITARY SEWER MANHOLES				
MANHOLE NO.	NORTHING	EASTING	SHEET	SNOW PLOW APRON
FM TO GRAVITY MH	2084599.03	6802791.32	U11	YES
SS DROP MH	2084616.01	6802761.89	U11	YES
CS TO LS SSMH	2084437.63	6806000.19	U10	NO

SEWER FORCE MAIN PRESSURE CLEANOUTS				
NAME	NORTHING	EASTING	SHEET	SNOW PLOW APRON
SS FM CO #1	2084382.89	6802869.16	U14	YES
SS FM CO #2	2083906.44	6803245.23	U2	YES
SS FM CO #3	2083899.09	6803963.30	U3	YES
SS FM CO #4	2084237.55	6804801.80	U3	YES
SS FM CO #5	2084537.73	6805477.43	U4	YES
SS FM CO #6	2084709.13	6806291.13	U5	YES
SS FM CO #7	2084818.76	6806870.21	U5	YES

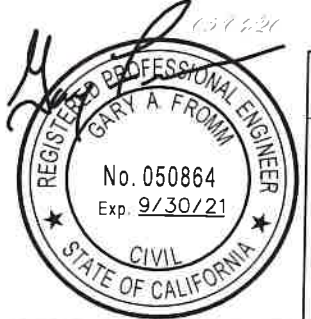


- NOTES:**
1. 4" IS A MINIMUM THICKNESS. MATCH ADJACENT PAVEMENT THICKNESS IF GREATER.
 2. REPAVE SIDEWALKS TO TOP OF CURB STONE BACK FACE.

1 TRENCH RESURFACING ASPHALT SECTION
SCALE: NOT TO SCALE



2 NEW ACCESS ROAD ASPHALT SECTION
SCALE: NOT TO SCALE



U.S. DEPARTMENT OF TRANSPORTATION
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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SOUTHSIDE DRIVE
COORDINATE TABLE**

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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U24

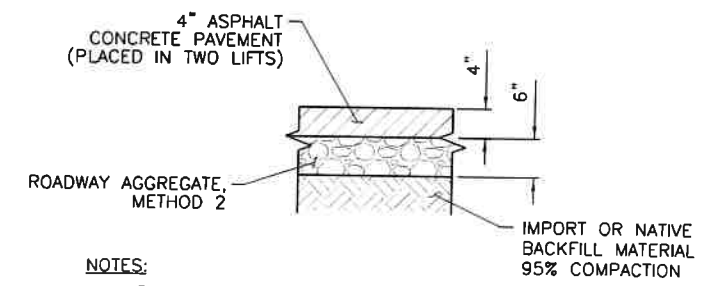
ELECTRICAL HANDHOLES				
HANDHOLE NO.	NORTHING	EASTING	SHEET	SNOW PLOW APRON
PB-30	2084607.90	6802799.74	U11	YES
PB-30A	2084581.30	6802814.41	U11	YES
HH801	2084280.16	6802885.80	U1	YES
HH802	2083889.38	6803254.73	U2	YES
HH803	2083768.40	6803538.76	U2	YES
HH804	2083906.72	6803978.63	U3	YES
HH805	2083960.50	6804300.11	U3	YES
HH806	2084098.54	6804614.92	U3	YES
HH807	2084408.43	6805036.75	U4	YES
HH808	2084540.00	6805460.53	U4	YES
HH809	2084643.55	6805952.19	U4	YES
HH810	2084705.46	6806275.49	U5	YES
HH811	2084767.68	6806585.07	U5	YES
HH812	2084804.00	6806821.24	U5	YES
HH813	2084664.08	6806886.12	U5	YES
HH814	2084487.50	6807121.50	U5	YES
HH815	2084492.89	6807123.03	U6	NO
HH815B	2084490.68	6807130.64	U6	NO
HH816	2084348.76	6807016.42	U6	NO
HH816B	2084346.44	6807025.08	U6	NO

COMMUNICATION HANDHOLES				
HANDHOLE NO.	NORTHING	EASTING	SHEET	SNOW PLOW APRON
T-1-0	2084581.30	6802814.41	U11	YES
T-1-1	2084278.67	68022994.68	U1	YES
T-1-2	2083884.78	6803261.99	U2	YES
T-1-3	2083773.29	6803546.16	U2	YES
T-1-4	2083913.92	6803985.05	U3	YES
T-1-5	2083963.41	6804308.69	U3	YES
T-1-6	2084106.47	6804620.18	U3	YES
T-1-7	2084415.45	6805041.83	U4	YES
T-1-8	2084540.61	6805469.91	U4	YES
T-1-9	2084648.28	6805961.08	U4	YES
T-1-10	2084705.46	6806283.19	U5	YES
T-1-11	2084772.29	6806592.87	U5	YES
T-1-12	2084809.07	6806829.34	U5	YES
T-1-13	2084652.53	6806883.24	U5	YES
T-1-14	2084584.61	6806945.30	U5	YES
T-1-15	2084487.21	6807121.21	U6	NO
T-1-16	2084348.44	6807021.00	U6	NO

HEAT TRACE SAFE GUARD CABINET				
NAME	NORTHING	EASTING	SHEET	SNOW PLOW APRON
HEAT TRACE CABINET	2084375.26	6802875.91	U14	NO

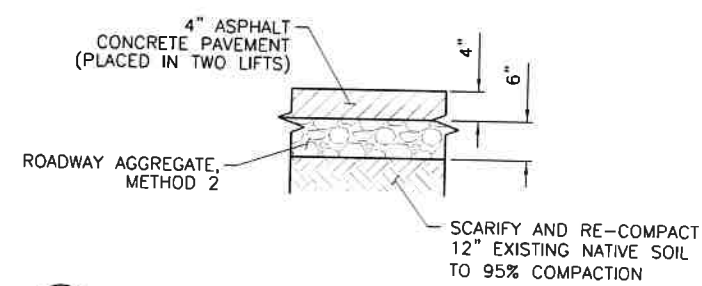
SANITARY SEWER MANHOLES				
MANHOLE NO.	NORTHING	EASTING	SHEET	SNOW PLOW APRON
FM TO GRAVITY MH	2084599.03	6802791.32	U11	YES
SS DROP MH	2084616.01	6802761.89	U11	YES
CS TO LS SSMH	2084437.63	6806935.19	U10	NO

SEWER FORCE MAIN PRESSURE CLEANOUTS				
NAME	NORTHING	EASTING	SHEET	SNOW PLOW APRON
SS FM CO #1	2084382.89	6802869.16	U14	YES
SS FM CO #2	2083906.44	6803245.23	U2	YES
SS FM CO #3	2083899.09	6803963.30	U3	YES
SS FM CO #4	2084237.55	6804801.80	U3	YES
SS FM CO #5	2084537.73	6805477.43	U4	YES
SS FM CO #6	2084709.13	6806291.13	U5	YES
SS FM CO #7	2084818.76	6806870.21	U5	YES



- NOTES:**
- 4" IS A MINIMUM THICKNESS. MATCH ADJACENT PAVEMENT THICKNESS IF GREATER.
 - REPAVE SIDEWALKS TO TOP OF CURB STONE BACK FACE.

1 TRENCH RESURFACING ASPHALT SECTION
SCALE: NOT TO SCALE



2 NEW ACCESS ROAD ASPHALT SECTION
SCALE: NOT TO SCALE

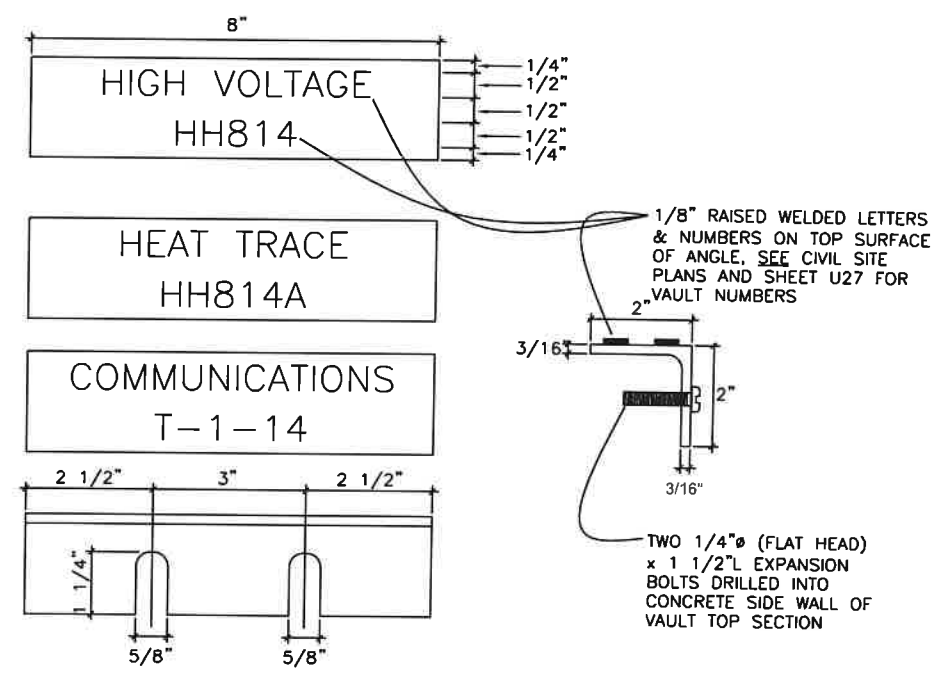


U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SOUTHSIDE DRIVE
COORDINATE TABLE**

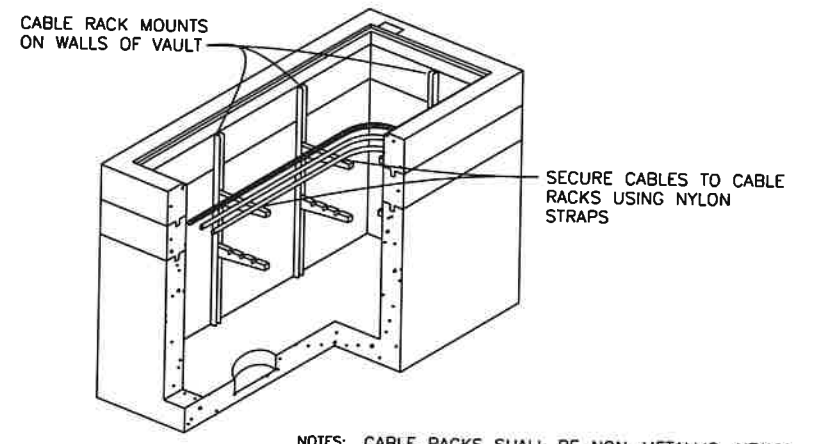
1 03/15/2021 Revised Vault Locations

STATE	PROJECT	SHEET NUMBER
CA	FINP/NPS YOSE 500(S) & 918(L) Southside Dr & Bridalveil	U25



TYPICAL IDENTIFICATION PLATE FOR VAULT COVERS
SCALE: NONE

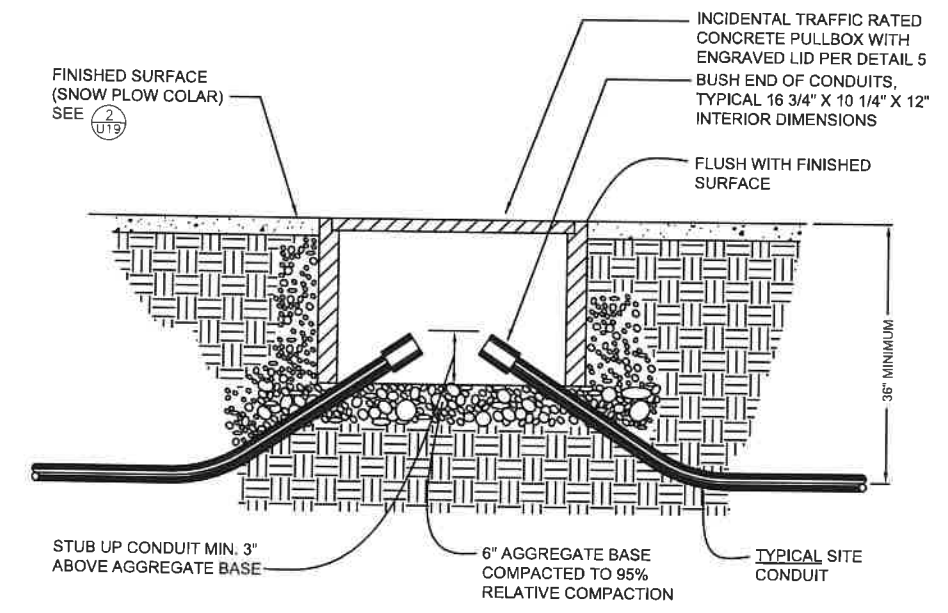
5



NOTES: CABLE RACKS SHALL BE NON-METALLIC, HEAVY DUTY, ADJUSTABLE ARM, UNDERGROUND DEVICES INC. #CR36 WITH #RA08 OR #RA14; ARMS AS REQUIRED, OR APPROVED EQUAL.

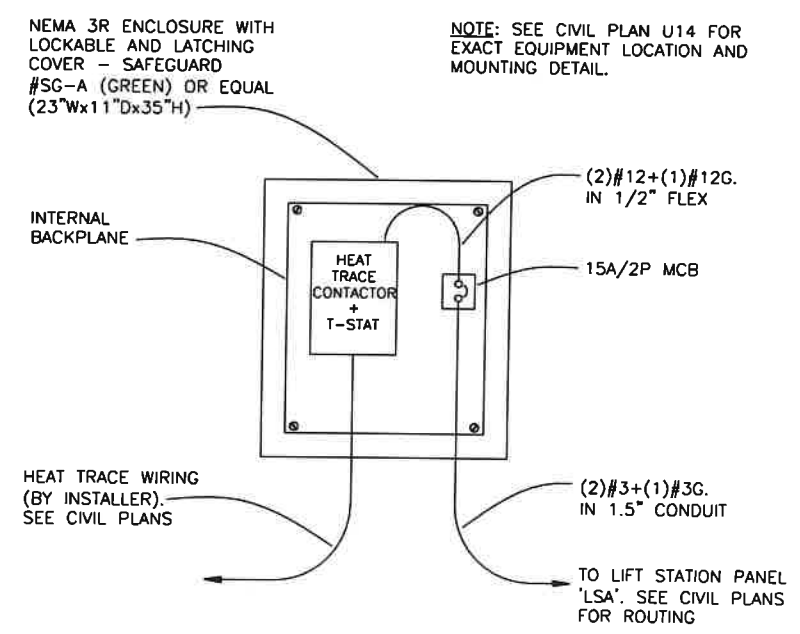
TYPICAL CABLE RACKING IN VAULTS
SCALE: NONE

3



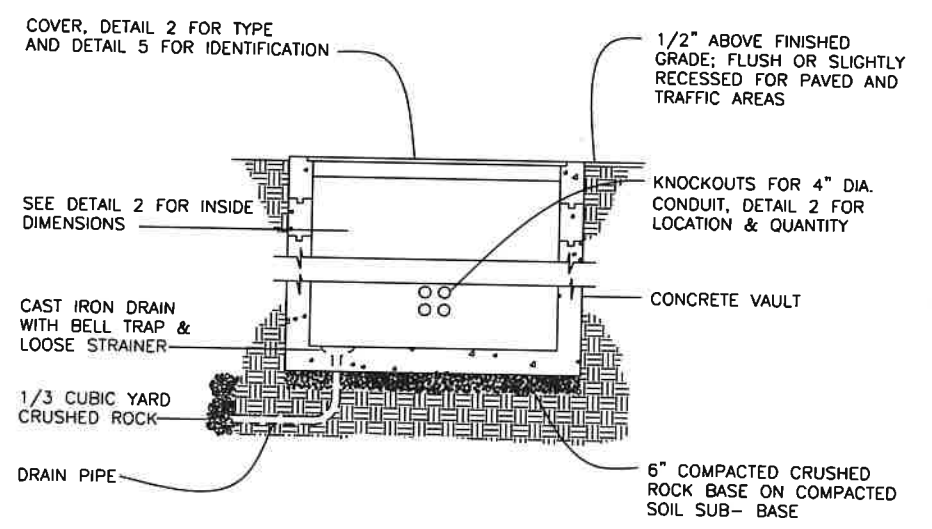
HEAT TRACE PULLBOX DETAIL
SCALE: NONE

1



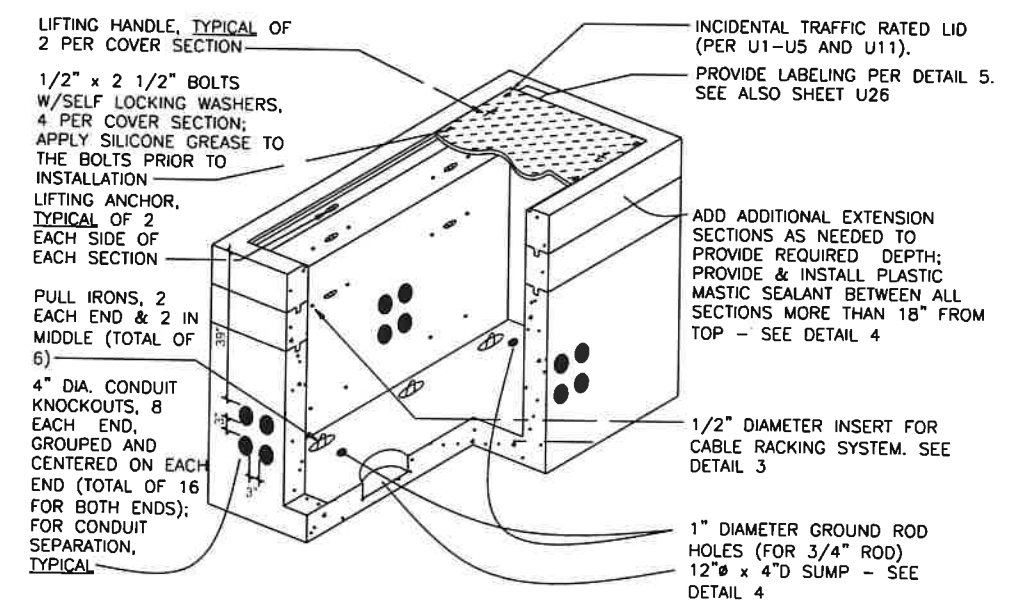
HEAT TRACE CABINET DETAIL
SCALE: NOT TO SCALE

6



TYPICAL VAULT INSTALLATION
SCALE: NONE

4



NOTES: TYPICAL ELECTRICAL NOMINAL CONCRETE MANHOLE DIMENSIONS: 3'-0"W x 5'-0"L x 6'-0"D WITH A TOTAL OF (24) 4" CONDUIT KNOCKOUTS, WITH EXTENSION SECTIONS AS REQUIRED.

TYPICAL COMMUNICATION NOMINAL CONCRETE MANHOLE DIMENSIONS: 2'-0"W x 3'-0"L x 3'-0"D WITH A TOTAL OF (24) 4" CONDUIT KNOCKOUTS, WITH EXTENSION SECTIONS AS REQUIRED.

TYPICAL NEW FLUSH IN-GRADE VAULT
SCALE: NONE

2



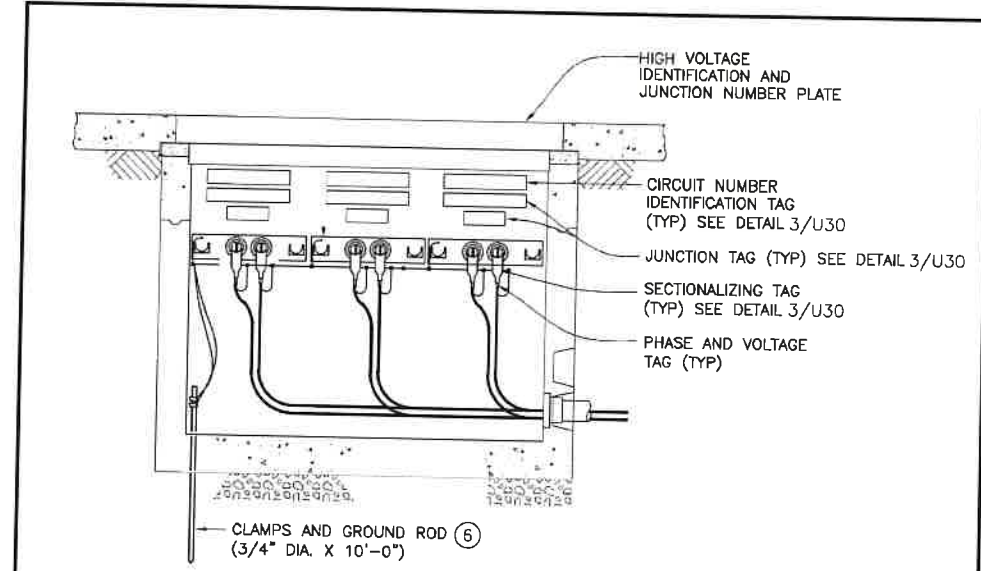
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

UTILITY VAULT DETAILS

STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	U30

NUMBERED SHEET NOTES

- ① PROVIDE A CIRCUIT NUMBER IDENTIFICATION TAG, FABRICATED FROM ULTRAVIOLET RESISTANT YELLOW VINYL PLASTIC. IDENTIFICATION TAG SHALL BE OF THE SAME MATERIAL AND HAVE SIMILAR LETTERING HEIGHT AS THE JUNCTION IDENTIFICATION TAG. TAG SHALL SHOW THE CIRCUIT NUMBER OF THE CABLES TERMINATED AT THE JUNCTION; EXAMPLE: "CKT 1102".
- ② PROVIDE A JUNCTION TAG TO IDENTIFY THE JUNCTION NUMBER OF EACH PRIMARY JUNCTION INSTALLED.
- ③ PROVIDE PHASE IDENTIFICATION TAG FOR EACH PRIMARY JUNCTION. INSTALLED TAGS SHALL IDENTIFY PHASES AS #1, #2, #3.
- ④ DISTANCE TO NEXT SECTIONALIZING POINT.
- ⑤ PROVIDE FAULT INDICATOR MOUNTED ON A LOADBREAK ELBOW AT EACH LOADBREAK JUNCTION. PROVIDE INDICATORS ON SOURCE CABLES AT JUNCTIONS. INSTALL SOURCE CABLES ON OUTSIDE BUSHING OF JUNCTION GROUP TO FACILITATE FAULT INDICATOR INSTALLATION AND REMOVAL.
- ⑥ PROVIDE A 3-WAY 200A LOAD BREAKER JUNCTION ASSEMBLY WHERE SHOWN ON DRAWINGS.
- ⑦ BOND ALL COPPER EQUIPMENT GROUNDING CONDUCTORS AT EACH PULLBOX VAULT TO THE VAULT GROUNDING ELECTRODE SYSTEM.

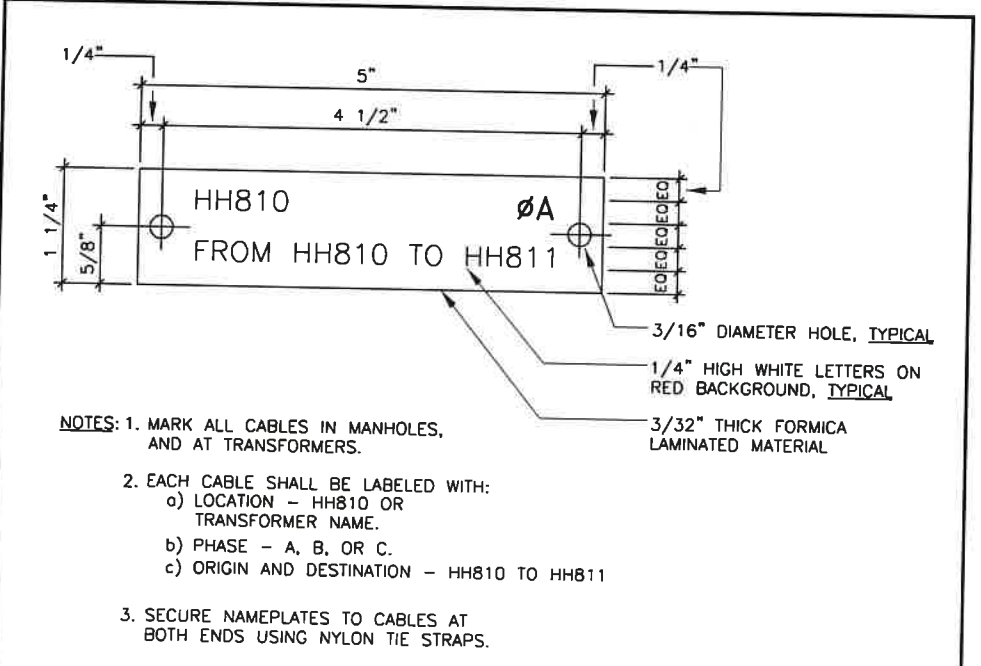


GENERAL NOTES:

1. ALL EQUIPMENT, INCLUDING PRIMARY CABLES, JUNCTIONS, TERMINATION, SWITCHES, BOXES AND TRANSFORMERS SHALL BE PROVIDED WITH EQUIPMENT IDENTIFICATION TAGS.
2. CONTRACTOR SHALL FURNISH ALL MATERIALS AND STENCIL MACHINE FOR MAKING STAINLESS STEEL LABELS.

TYPICAL IDENTIFICATION TAGS DETAILS FOR PRIMARY JUNCTIONS AND CABLING
SCALE: NONE

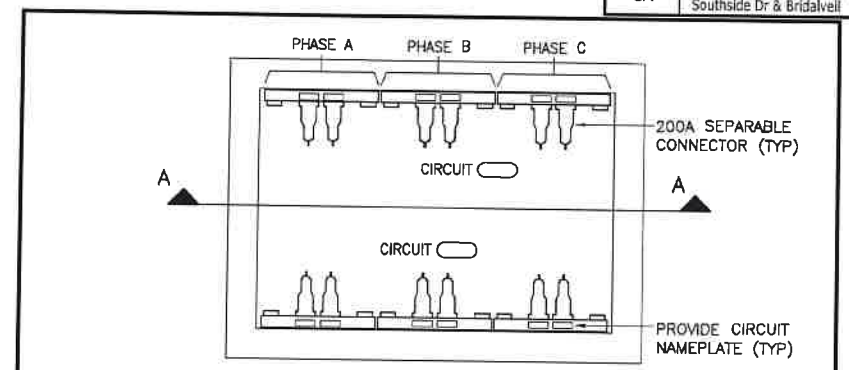
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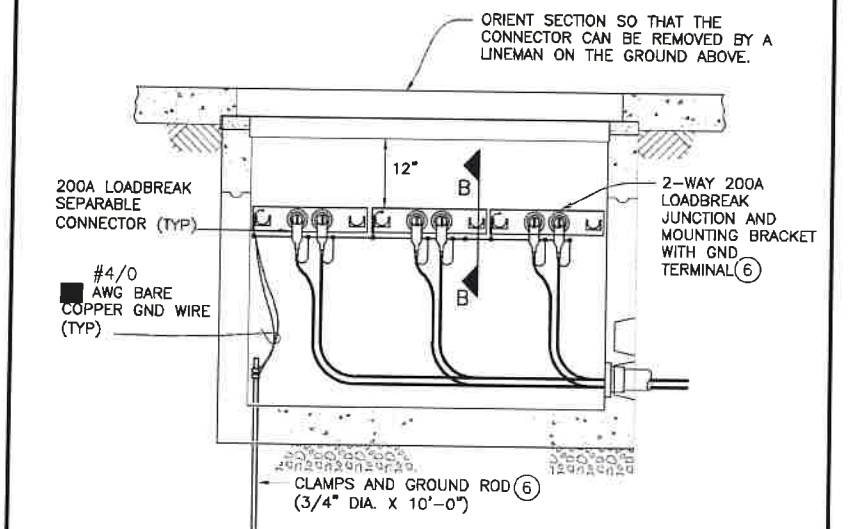
- NOTES:**
1. MARK ALL CABLES IN MANHOLES, AND AT TRANSFORMERS.
 2. EACH CABLE SHALL BE LABELED WITH:
 - a) LOCATION - HH810 OR TRANSFORMER NAME.
 - b) PHASE - A, B, OR C.
 - c) ORIGIN AND DESTINATION - HH810 TO HH811
 3. SECURE NAMEPLATES TO CABLES AT BOTH ENDS USING NYLON TIE STRAPS.

TYPICAL CABLE IDENTIFICATION NAMEPLATE
SCALE: NONE

③

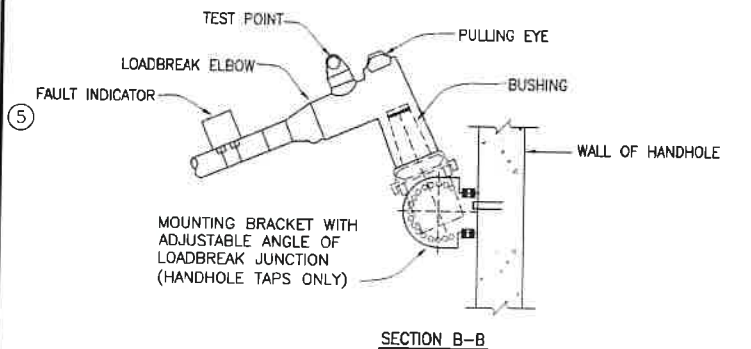


PLAN VIEW



SECTION A-A

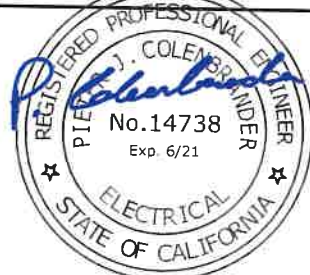
- NOTES:**
1. MINIMUM CABLE BENDING RADIUS = 30 DEGREE
 2. LEAVE SLACK TO PERMIT REMOVAL FROM BUSHING ON 2-WAY JUNCTION.



SECTION B-B

TYPICAL LOADBREAK JUNCTION DETAIL
SCALE: NONE

①

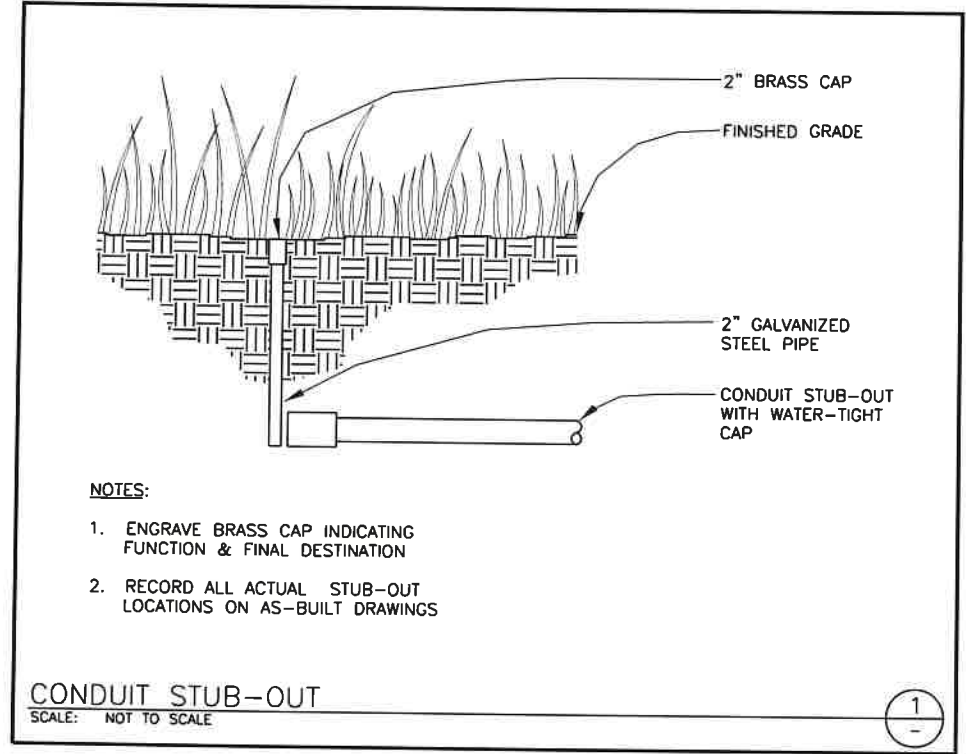


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FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

UTILITY DETAILS

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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U31



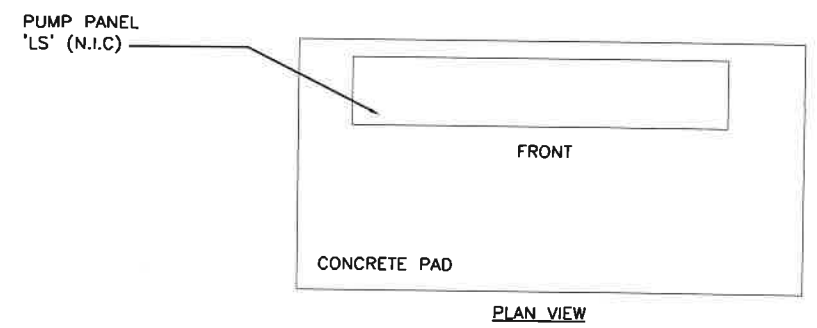
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

UTILITY DETAILS

User: Jacobs.CADD

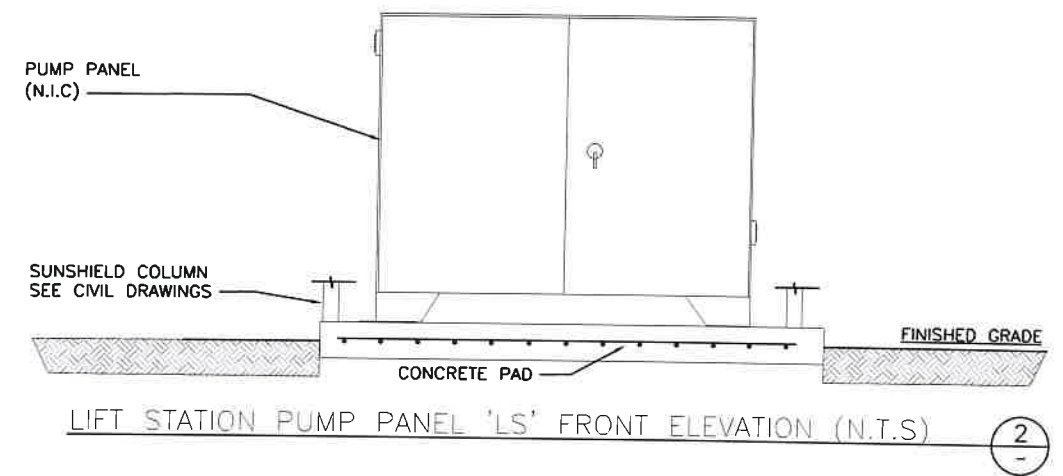
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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	U33

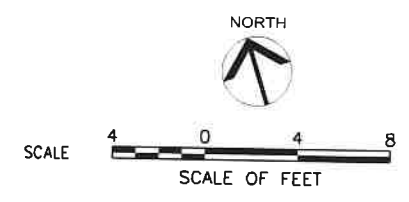
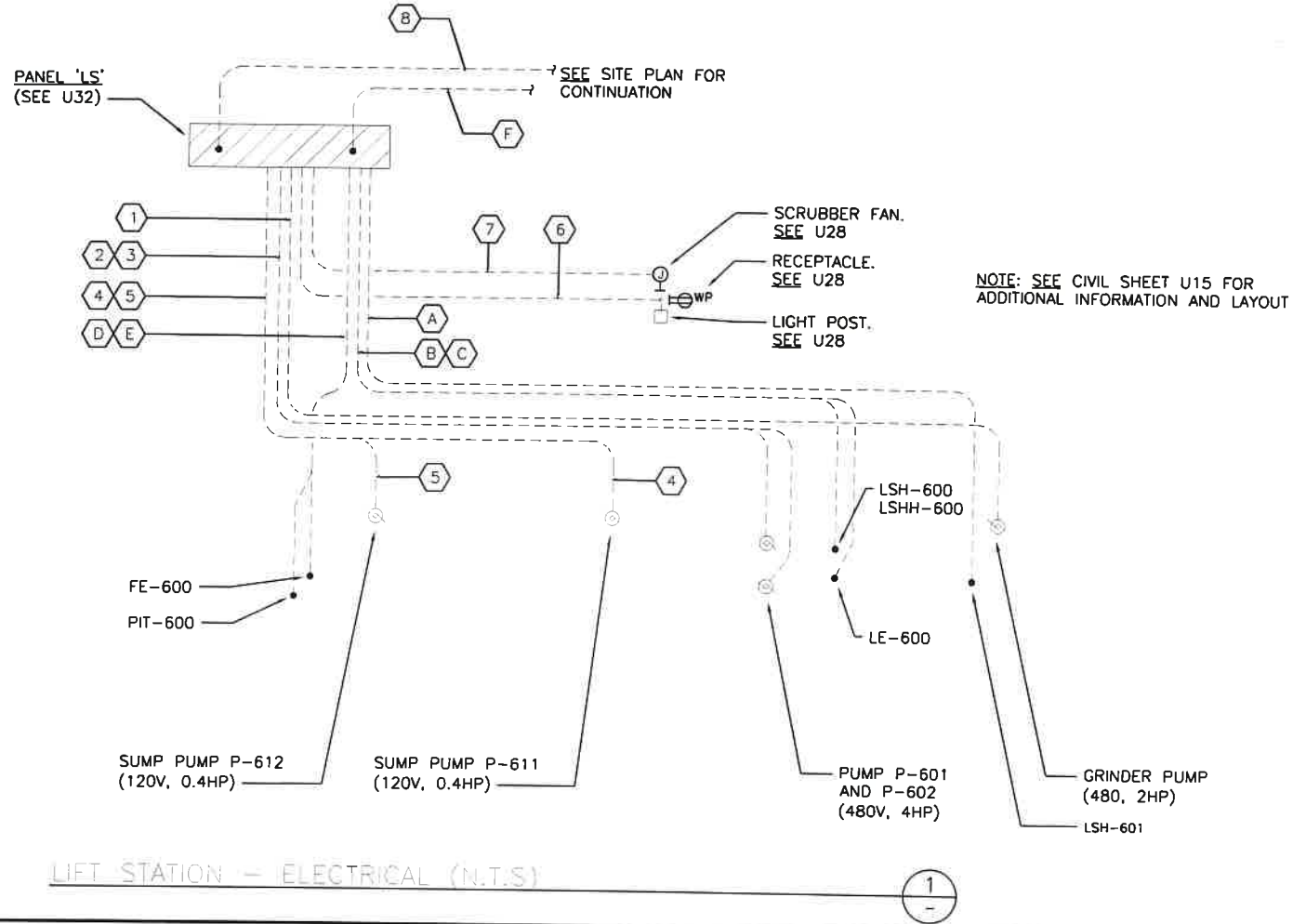


- GENERAL LIFT STATION ELECTRICAL NOTES:**
- LIFT STATION PANEL WORK SHOWN HERE IS FOR GENERAL POWER DISTRIBUTION AND CONTROLS CONDUITS AND CONDUCTORS BETWEEN EQUIPMENT.
 - PANEL IS NOT INCLUDED IN THIS CONTRACT.
 - CONTRACTOR TO PROVIDE AND INSTALL CONDUITS AS SHOWN.
 - REFER TO THE FOLLOWING DIVISION 33 SPECIFICATIONS FOR RELATED CONTROL AND SYSTEM SPECIFICATIONS:
 33 13 17 SUBMERSIBLE WASTEWATER PUMPS
 33 13 18 SUMP PUMPS
 33 31 15 SEWAGE GRINDER

LOW VOLTAGE WIRING/CONTROLS	
(A)	LSH-601; 3/4" C. W/ (2)#14.
(B)	LSH/LSHH-600; 2" C. W/ (10)#14.
(C)	LE-600; 1" C. W/ MANUFACTURERS CABLE.
(D)	FE-600; 3/4" W/ MANUFACTURERS CABLE.
(E)	PIT-600; 3/4" W/ (1) TWST/SHLD PAIR.
(F)	SITE COMM; 4" C. W/ PULL STRING.



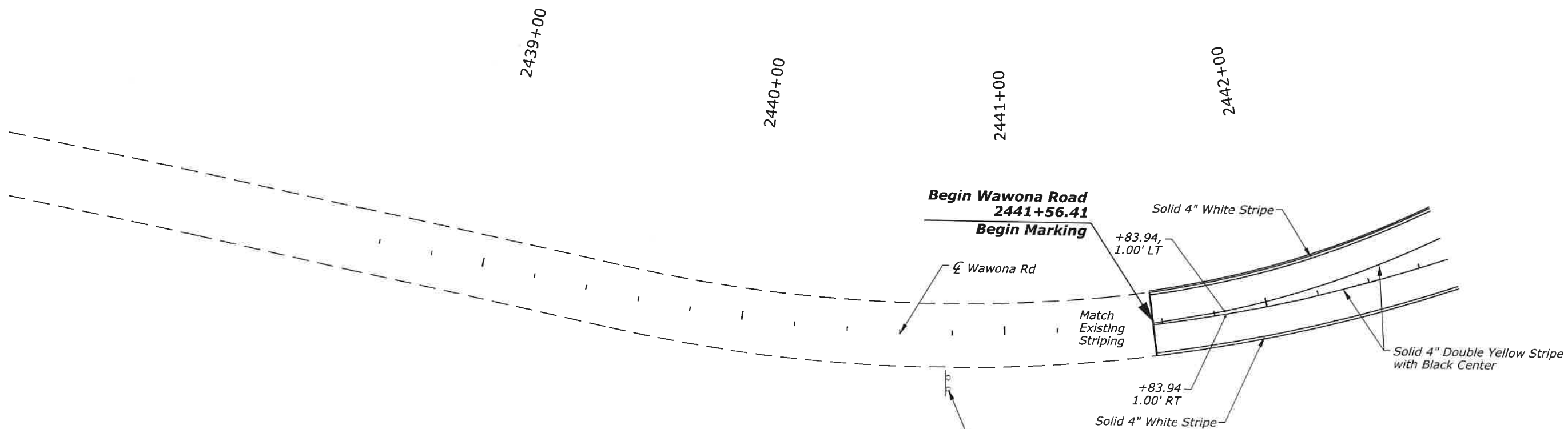
POWER WIRING	
(1)	GRINDER PUMP; 3/4" C. W/(3)#12 + (1)#12G.
(2)	PUMP P-601; 3/4" C. W/ (3)#12 + (1)#12G. + 3/4" C. W/ (4)#14 CONTROL WIRING.
(3)	PUMP P-602; 3/4" C. W/ (3)#12 + (1)#12G. 3/4" C. W/ (4)#14 CONTROL WIRING.
(4)	SUMP PUMP P-611; 3/4" C. W/ (2)#12 + (1)#12G.
(5)	SUMP PUMP P-612; 3/4" C. W/ (2)#12 + (1)#12G.
(6)	LIGHT RECEPTACLE; 1" C. W/ (5)#12 + (1)#12G.
(7)	SCRUBBER FAN; 3/4" C. W/ (2)#12 + (1)#12G.
(8)	PANEL 'LF'; 2" C. W/ (3)#2.



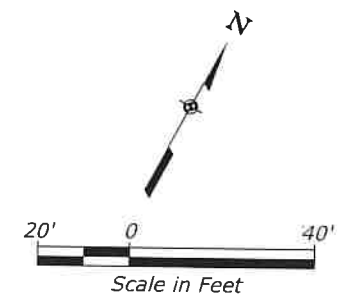
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**UTILITY DETAILS
LIFT STATION
ELECTRICAL**

STATE	PROJECT	SHEET NUMBER
CA	FTN2/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	V1



2440+79, RT
To Remain

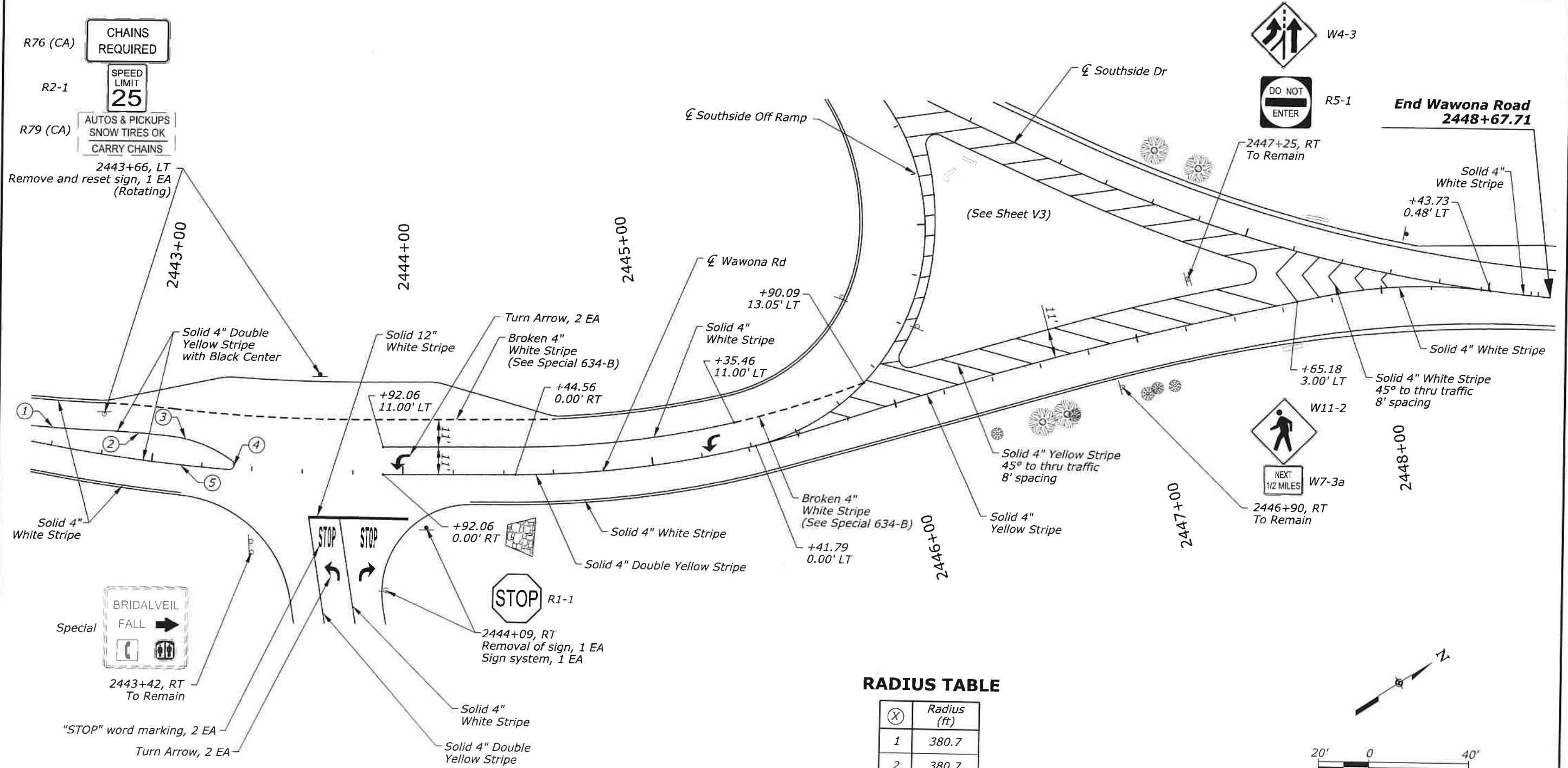


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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SIGNING AND
MARKING SHEET
WAWONA ROAD
2437+91.91 TO 2442+60**

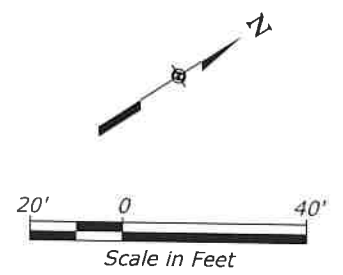
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CA	FINP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	V2

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RADIUS TABLE

(X)	Radius (ft)
1	380.7
2	380.7
3	52.4
4	2.0
5	605.0

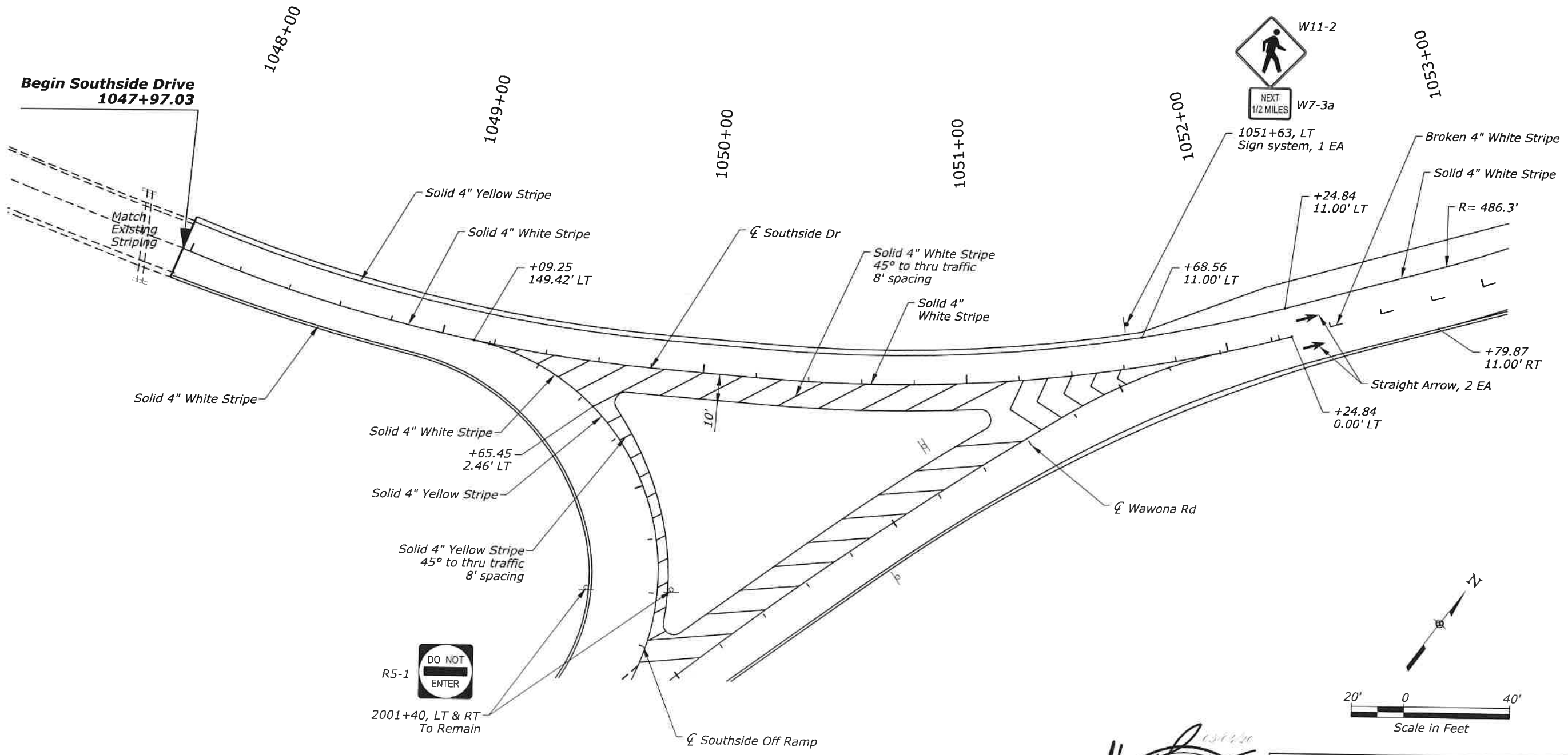



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 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

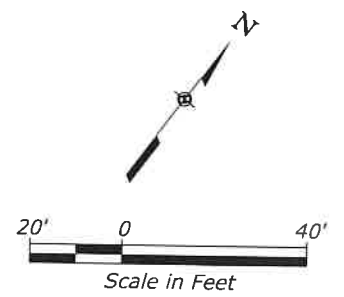
SIGNING AND MARKING SHEET
WAWONA ROAD
2442+60 TO 2448+67.71

STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	V3

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R5-1

 2001+40, LT & RT
 To Remain



REGISTERED PROFESSIONAL ENGINEER
 GARY A. FROMM
 No. 050864
 Exp. 9/30/21
 CIVIL
 STATE OF CALIFORNIA

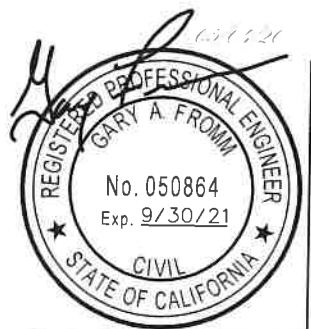
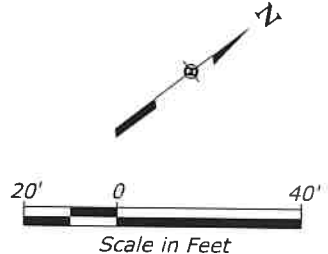
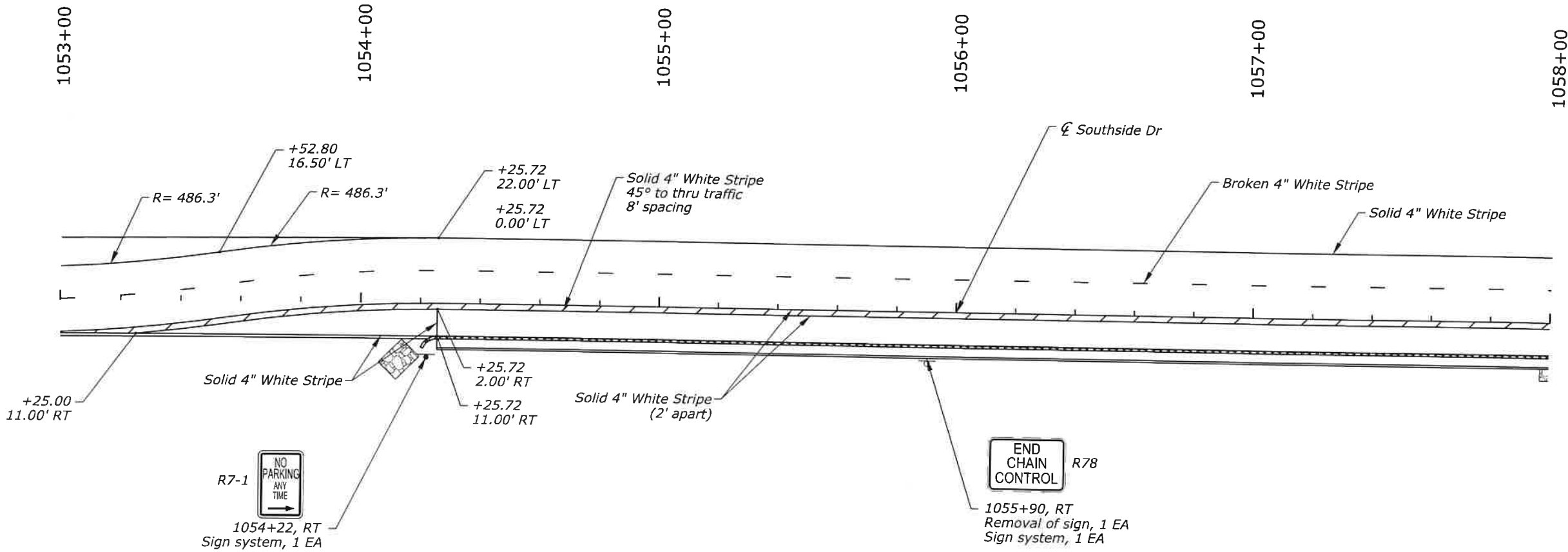
U.S. DEPARTMENT OF TRANSPORTATION
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 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SIGNING AND MARKING SHEET
SOUTHSIDE DRIVE
1047+97.03 TO 1053+00

User: Jacobs.CADD

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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(5) & 918(1) Southside Dr & Bridalveil	V4



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 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

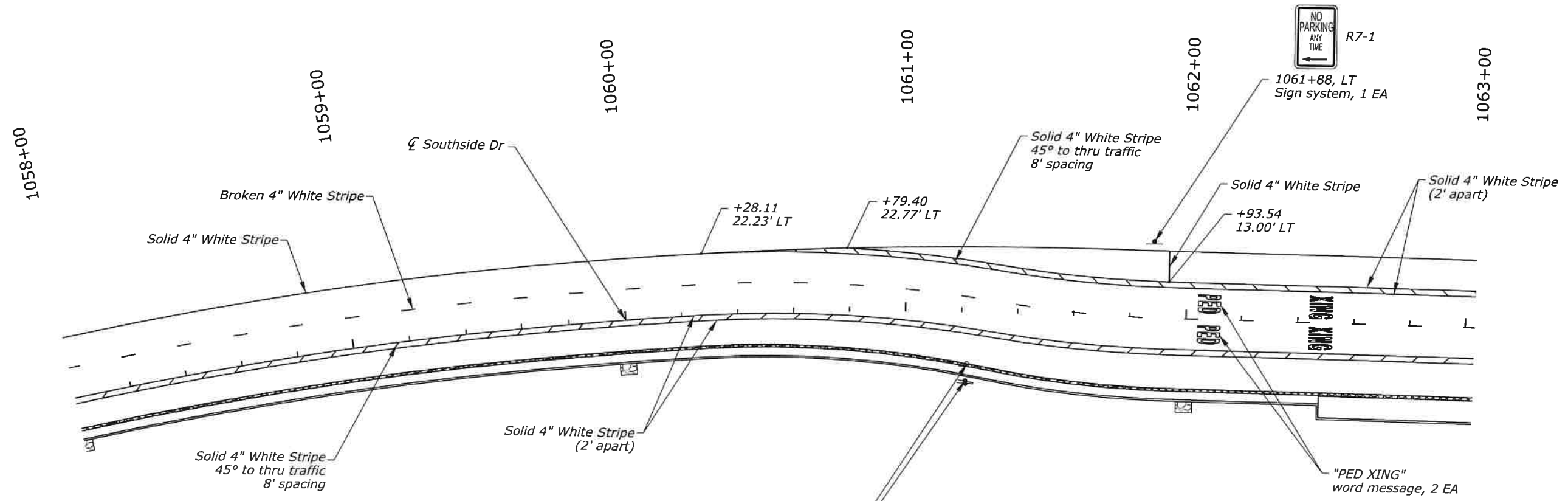
SIGNING AND MARKING SHEET
SOUTHSIDE DRIVE
1053+00 TO 1058+00

User: Jacobs.CADD

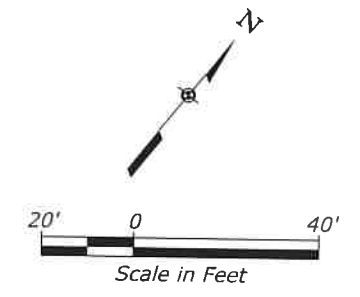
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STATE	PROJECT	SHEET NUMBER
CA	FTNP/NPS YOSE 500(S) & 918(1) Southside Dr & Bridalveil	V5



R76 CHAINS REQUIRED
 R2-1 SPEED LIMIT 25
 R79 (CA) AUTOS & PICKUPS
 SNOW TIRES OK
 CARRY CHAINS
 1061+22, RT
 Remove and reset sign, 1 EA
 (Rotating)



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SIGNING AND MARKING SHEET
SOUTHSIDE DRIVE
1058+00 TO 1063+00