

:	STATE	PROJECT	SHEET NUMBER
	CA	FTBL DUMONT DUNES (1)	A1

INDEX TO SHEETS DESCRIPTION

DESCRIPTION
TITLE SHEET
CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS
SURVEY CONTROL
SITE MAP
TYPICAL SECTIONS
SUMMARY OF QUANTITIES
SURFACING SUMMARY
PERMANENT TRAFFIC CONTROL SUMMARIES
MISCELLANEOUS SUMMARIES
PLAN AND PLAN SHEETS
FEE STATION AREA DETAIL
MINOR ROAD ACCESS DETAIL
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PLANS PREPARED BY



FOR

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

CENTRAL FEDERAL LANDS HIGHWAY DIVISION DENVER, COLORADO

APPROVED:

CHIEF OF ENGINEERING CENTRAL FEDERAL LANDS HIGHWAY DIVISION DATE:

ABBREV	IATIONS	
Ę	centerline	
Δ	curve delta	lam.
Ø	diameter	lat.
A abut. ADT	abutment average daily traffic	long.
aggr.	aggregate	LPSM Lt. or L
ĀĦ	aĥead	LW
alt.	alternate	M mag.
appr. asph.	approach asphalt	maint. matl.
B b.f.	both faces	max.
beg.	beginning,begin	min.
BK BM	back bench mark	mon.
BP	balance point	mtn(s).
br.	bridge	NC
brg.	bearing	neg.
C CBC c-c	concrete box culvert center to center	no. or # 0 o.c.
clr.	clear	0.C. 0.f.
СМР	corrugated metal pipe	OD
Co.	county	P PC
col. conc.	column concrete	PCC perf.
constr.	construction	PI
constr. jt.	construction joint	pl.
cont.	continuous	POC
corr. cr.	corrugated creek	POS POT
CS	point of curve to spiral	proj.
ctrs.	centers	psi
CTSM culv.	contingent sum culvert	PT
D decr.	decrement	pvmt.
DHV	design hour volume	Q quant., R R
DI dia ar D	drop inlet diamotor	R.
dia. or D diag.	diameter diagonal	R/W rd.
diaph.	diaphragm	rdwy.
dist.	distance	reconst.
Dist. DLC	district donation land claim	reinf.
dwg(s).	drawing(s)	reqd. res.
ΕΕ	east	Res.
e El 04.064	superelevation rate	ret. wal
El. 94.066 elev.	elevation with number elevation	RH Rt. or R
emb.	embankment	rte.
engr(s).	Engineer(s)	s s
EOP EQ or eq.	edge of pavement equation	SADT
EQ 01 EQ. ER	edge of road	SC sec.
et al	and others	shldr.
et ux EW	and wife	spa.
EW exc.	edge of water excavation	spec. st.
exp. jt.	expansion joint	ST.
ext.	exterior	sta.
F f.f. Fed.	fill face federal	std.
FES	flared end section	stiff. str.
fin.	finish	struc.
ftg.	footing	sym.
G ga. galv.	gage (gauge) galvanized	T
gdr.	girder	<i>T.</i> <i>tan.</i>
H hdwl.	headwall	TBM
HES	homestead entry survey	TCE
hex. horiz.	hexagon horizontal	transv. TS
HW	high water	typ.
hwy.	highway	VV
I ID	inside diameter	vert.
incl. incr.	inclusive,including increment	vph VPI
int.	interior	W W
J jt.	joint	

length of curve lamination latitude longitudinal lump sum left .t. or LT low water magnetic maintenance material maximum minimum monument mountain(s) north normal crown negative number no. or # on centers other face outside diameter point of curve point of compound curve perforate point of intersection plate point on curve point on spiral point on tangent project pounds per square inch point of tangent , pavement quantities quant., Qty radius range right-of-way road roadway reconstruction reinforcement required reservoir Reservation retaining wall et. wall reference hub right Rt. or RT route south seasonal average daily traffic point of spiral to curve section shoulder spacing, Spaces or Spaced specification street point of spiral to tangent . station standard stiffener straight structural symmetrical tangent length township tangent temporary bench mark temporary construction easement trańsverśe point of tangent to spiral typical design speed vertical vehicles per hour vertical point of intersection west

DRAINAGE SYMBOLS

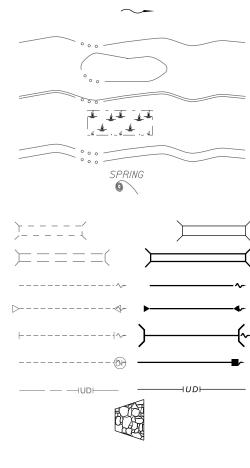


Wetland

Spring

River

Bridge (Existing, Proposed) Box Culvert (Existing, Proposed) Pipe Culvert (Existing, Proposed) With End Sections (Existing, Proposed) With Headwalls (Existing, Proposed) With Drop Inlet (Existing, Proposed) Underdrain (Existing, Proposed) Riprap Apron (Proposed)



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EROSION & SEDIMENT CONTROL SYMBOLS

Bonded Fiber Matrix Mulching	
Check Dam	\boxtimes
Diversion Berm	
Rolled Erosion Control Product	
Riprap	ないない
Fiber Roll (Ditch and/or Cut Slope)	
Silt Fence	BBBB
Temporary Inlet Protection	\bigcirc
Fiber Roll (Slope Protection)	

FENCE & CATTLEGUARD SYMBOLS

Fence (Existing, Proposed) Fence w/ Gate (Existing, Proposed) Cattleguard (Existing, Proposed)

GEOLOGIC SYMBOLS

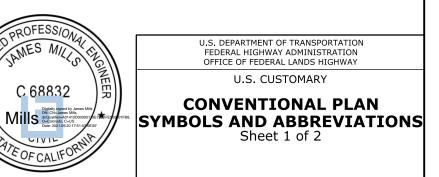
Boring Location (Existing, Proposed)

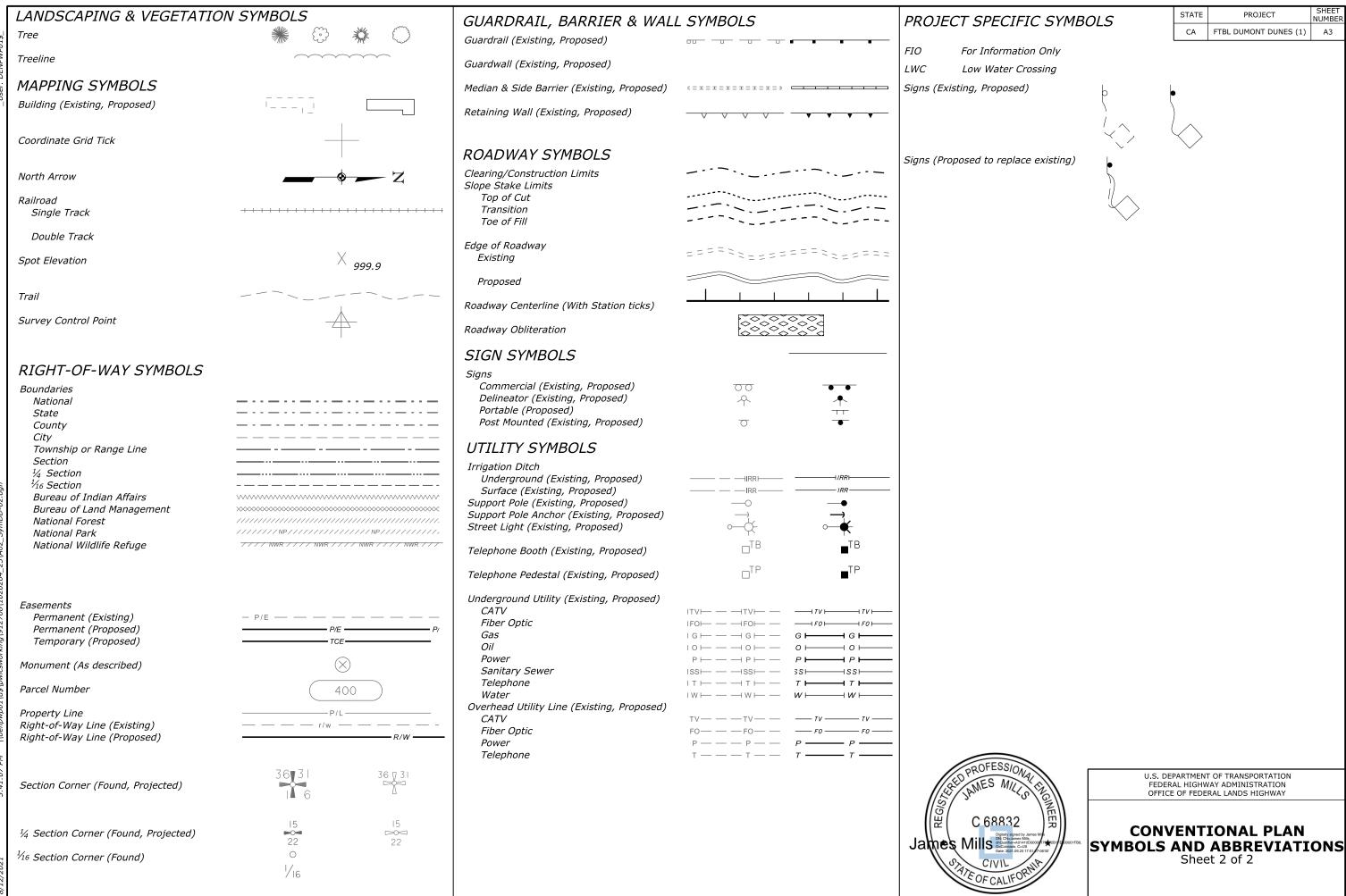
Material Source

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STATE	PROJECT	SHEET NUMBER
CA	FTBL DUMONT DUNES (1)	A2

	INDEX TO SHEETS
ET	DESCRIPTION
	501-2 MINOR CONCRETE PAVEMENT JOINTS
	LOW WATER CROSSING PLAN AND PROFILE
	LOW WATER CROSSING SECTIONS AND DETAIL
	E633-01 SIGN STRUCTURES
	E633-03 BREAKAWAY SIGN SUPPORT WOOD AND STEEL POSTS
	E633-04 SIGN BRACING
	C633-51 DELINEATORS
	C634-50 CENTERLINE STRIPING AND TOP LIFT PAVEMENT JOINT
	634-A PERMANENT RAISED PAVEMENT MARKERS
	635-3 DELINEATION AND SIGNING FOR UNMARKED PAVEMENTS
	635-6 TEMPORARY TRAFFIC CONTROL SINGLE LANE CLOSURE LAYOUT (WITH FLAGGERS)
	635-7 TEMPORARY TRAFFIC CONTROL SINGLE LANE CLOSURE LAYOUT (WITH YIELD SIGN)
)	635-8 TEMPORARY TRAFFIC CONTROL SINGLE LANE CLOSURE LAYOUT (WITH STOP SIGN)
L	635-13 TEMPORARY TRAFFIC CONTROL SINGLE LANE CLOSURE LAYOUT (WITH TEMPORARY BARRIER)
2	635-14 TEMPORARY TRAFFIC CONTROL SIGN INSTALLATION WOOD POSTS





PECIFIC SYMBOLS	STATE	PROJECT	SHEET NUMBER
	CA	FTBL DUMONT DUNES (1)	A3
nformation Only			
Water Crossing			
Proposed)			
to replace existing)			

Project : Dumont Dunes

Date Of Field Work : 10/2020 Date Of Final Adjustment : 11/5/2020

Alignment :

Project Units : US Survey Foot Datum: US State Plane NAD83 Zone: California Zone 5 (0405) Geoid: 18B OPUS Epoch Date : 2010 Vertical Datum : NAVD88

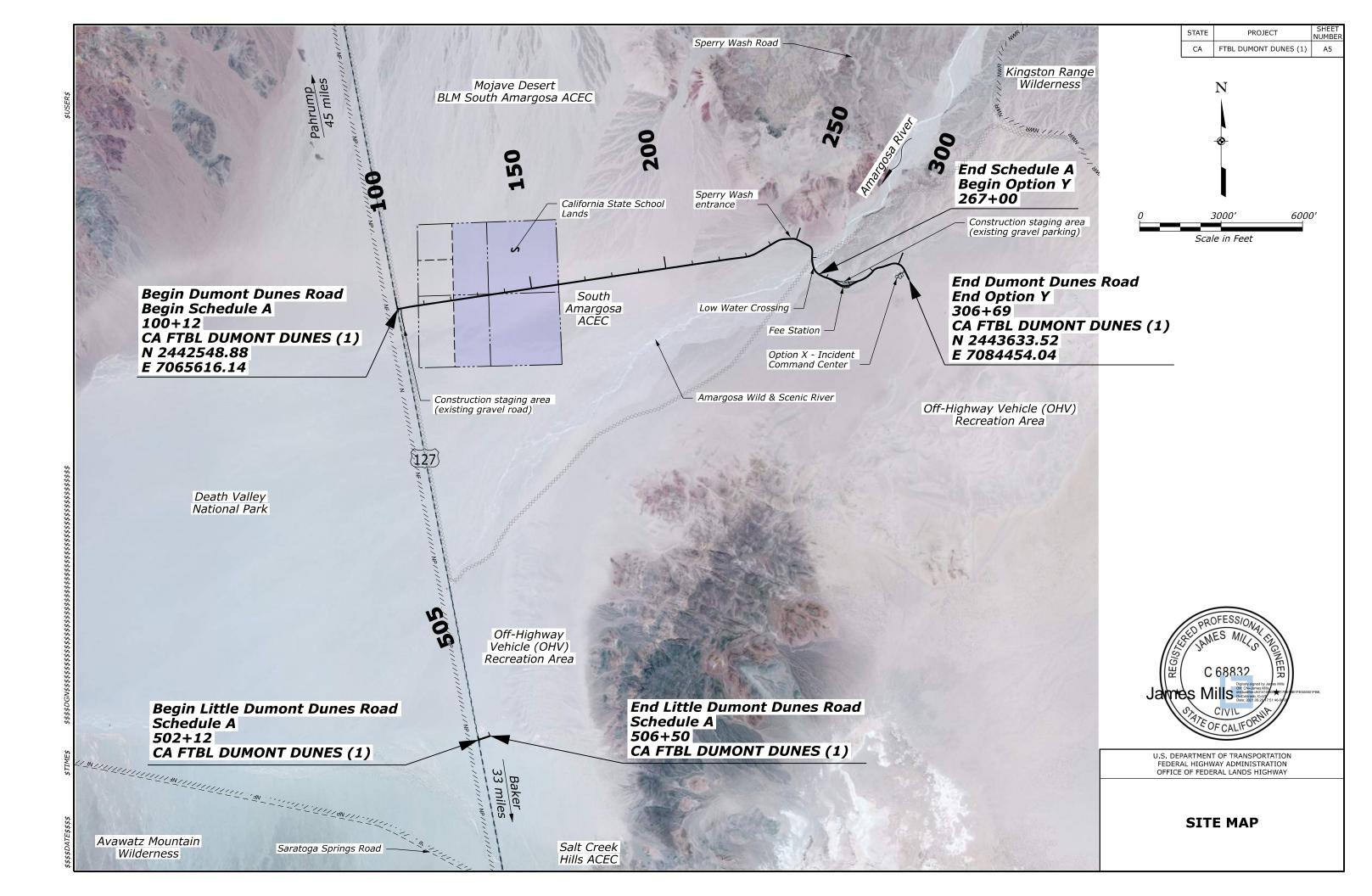
Gpk File Dated : Gpk File Name : Review FP-14, Section 152.05

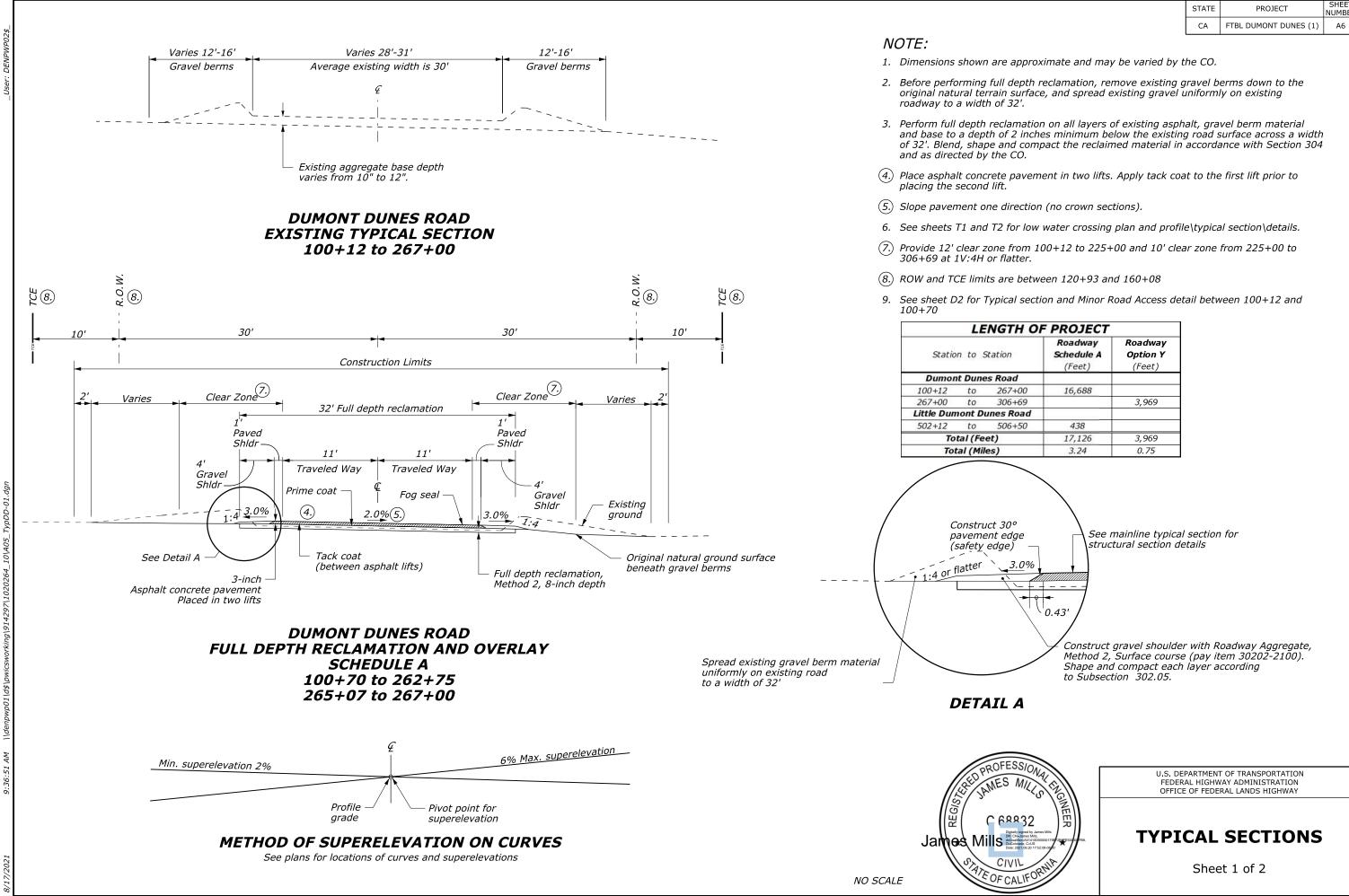
	STATE	PLANE COORDINA	TES	G	EO COORDINATES]				
POINT NUMBER	NORTH	EAST	ELEVATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT	MAPPING ANGLE	COMBINED FACTOR	STATION	OFFSET	
3001	2442659.56	7065705.84	486.90	N35°41'33.29633"	W116°18'09.58388"	387.71	0°58'03.0"	1.00003851	101+20.58	-92.2	2.5" ALUMIN
3002	2444127.48	7080831.06	628.74	N35°41'45.24693"	W116°15'05.94932"	529.78	0°59'47.7"	1.00003267	262+99.41	98.5	2.5" ALUMIN
3003	2443640.40	7081472.05	643.06	N35°41'40.32066"	W116°14'58.28280"	544.10	0°59'52.1"	1.00003159	270+86.64	21.3	2.5" ALUMIN
3004	2445222.64	7080149.29	653.97	N35°41'56.19259"	W116°15'13.98245"	555.04	0°59'43.1"	1.00003234	248+47.12	-82.2	2.5" ALUMIN
AMARGOSA	2444787.81	7065250.36	536.56	N35°41'54.41565"	W116°18'14.66932"	437.44	0°58'00.1"	1.00003782	100+65.47	-2268.0	NGS BR
JRH 13	2444749.87	7065256.15	535.97	N35°41'54.03960"	W116°18'14.60696"	436.84	0°58'00.1"	1.00003782	100+64.16	-2229.6	NGS BRASS

PROJECT AVERAGES = 1.00003513

	STATE	PROJECT	SHEET NUMBER
	СА	FTBL DUMONT DUNES (1)	
DESCRIPTION			
INUM CAP SET ATOP 4' NUMBER 5 REBAR. "F ADMINISTRATION LAKEWOOD, CO CFLI		HIGHWAY	
INUM CAP SET ATOP 4' NUMBER 5 REBAR. "F ADMINISTRATION LAKEWOOD, CO CFLI		HIGHWAY	
INUM CAP SET ATOP 4' NUMBER 5 REBAR. "F ADMINISTRATION LAKEWOOD, CO CFLI		HIGHWAY	
INUM CAP SET ATOP 4' NUMBER 5 REBAR. "F ADMINISTRATION LAKEWOOD, CO CFLI		HIGHWAY	
RASS DISK SET IN CONCRETE COLLAR "AMA	RGOSA	1952"	
S DISK SET IN CONCRETE COLLAR "U.S. GEC BENCH MARK, JRH13, 1947	LOGICA	L SURVEY,	
	l	ARON D WILLIS * 8881	
FEDER	AL HIGHW	OF TRANSPORTATION	
OFFICE	OF FEDE	RAL LANDS HIGHWAY	

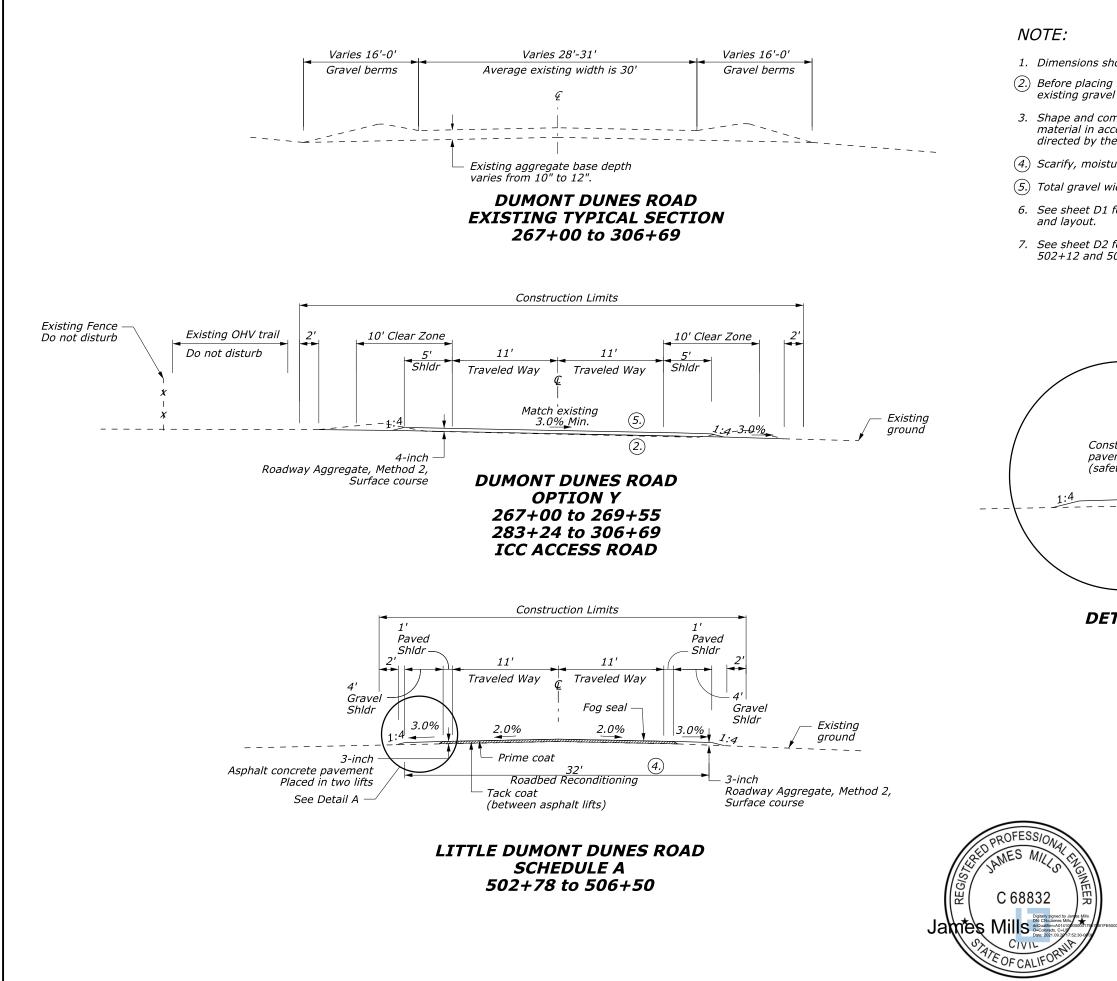
SURVEY CONTROL





STATE	PROJECT	SHEET NUMBER
CA	FTBL DUMONT DUNES (1)	A6

tion	Roadway Schedule A	Roadway Option Y
	(Feet)	(Feet)
Road		
267+00	16,688	
306+69		3,969
es Road		
506+50	438	
	17,126	3,969
)	3.24	0.75



		STATE	PROJECT	SHEET NUMBER
		CA	FTBL DUMONT DUNES (1)	A7
s shown are approxima	ate and may be va	aried by	the CO.	
cing Roadway Aggrega avel berms on existing	te, Method 2, Sur roadway.	face col	ırse, spread	
compact the Roadway accordance with the 1 the CO.	[,] Aggregate, Meth Typical Sections, S	od 2, S Section .	urface course 302, and as	
oisture condition and c	ompact in place to	o a depi	th of 6-inch.	
el width for ICC Access	Road is 24 feet.	See she	et C4.	
D1 for Fee station area	a (269+55 to 283	+24) ty	pical sections	
D2 for Typical section . nd 502+78	and Minor Road A	ccess d	etail between	
\sim				
	\backslash			
Construct 30°				
avement edge	See mainline	e typical ection de	section for	
safety edge)		ction ac	land	
<u> </u>	24			
0.43'	/			
	truct around about	ldor with	h Roadway Acaract	
Meth	od 2, Surface cou	rse (pa	h Roadway Aggregate y item 30202-2100).	<i>'</i>
Shap DETAIL A to Su	e and compact ea ubsection 302.05.	ich laye	r according	
LIAIL A				
			F OF TRANSPORTATION	
\mathbf{A}			/AY ADMINISTRATION RAL LANDS HIGHWAY	
]]	TVD	TCAI	SECTIONS	
7B1FE500001FB8,	IYP.		SECTIONS	
NO SCALE		Shee	et 2 of 2	

SUMMARY OF QUANTITIES - Schedule A

Ą							Estimated Quantities			
N N	Line	Doviltom			B5	B6-B7	B8	В9	0	Estimated Quantities
E N D	Item No.	Pay Item Number	Pay Item Description	Unit	Surfacing Summary	Permanent Traffic Control Summaries	TTC Summaries	Miscellaneous Summaries	Allowance	Bid Schedule
	A2000	15101-0000	MOBILIZATION	LPSM						ALL
	A2020	15215-3000	SURVEY AND STAKING, DRAINAGE							
			STRUCTURE	EACH				1		1
	A2040	15216-3000	SURVEY AND STAKING, TEMPLATE							
			CONTROL	MILE				3.244		3.244
	A2060	15301-0000	CONTRACTOR QUALITY CONTROL	LPSM						ALL
	A2080	15401-0000	CONTRACTOR TESTING	LPSM						ALL
	A2100	15501-0000	CONSTRUCTION SCHEDULE	LPSM						ALL
	A2120	15701-0000	SOIL EROSION CONTROL	LPSM						ALL
	A2140	15720-0000	STORM WATER POLLUTION							
			PREVENTION PLAN	LPSM						ALL
	A2160	15802-0000	WATERING FOR DUST CONTROL	LPSM						ALL
	A2180	20301-2400	REMOVAL OF SIGN	EACH		8			1	9
	A2200	20303-2300	REMOVAL OF PAVEMENT, CONCRETE	SQYD						575
	A2220	25101-2300	PLACED RIPRAP, METHOD B,							
			CLASS 3	CUYD				400	20	420
	A2240	30202-2100	ROADWAY AGGREGATE, METHOD 2,							
			SURFACE COURSE	TON	3,126				154	3,280
	A2260	30302-4000	ROADBED RECONDITIONING	LNFT	372				13	385
	A2280	30401-5500	FULL DEPTH RECLAMATION,							
			METHOD 2, 8-INCH DEPTH	MILE	3.106					3.106
	A2300	40301-0100	ASPHALT CONCRETE PAVEMENT,							
			TYPE 1	TON	7,824				276	8,100
	A2320	40601-0000	FOG SEAL	TON	19				1	20
	A2340	41102-1000	PRIME COAT, METHOD 1	SQYD	45,707				2,243	47,950
	A2360	41105-0000	BLOTTER	TON	337				13	350
	A2380	41201-0000	ТАСК СОАТ	TON	19				1	20
	A2400	55201-0200	STRUCTURAL CONCRETE, CLASS A							
			(AE)	CUYD				257	8	265
	A2420	55401-2000	REINFORCING STEEL, EPOXY							
			COATED	LB				15,562	438	16,000
	A2440	62201-0200	DUMP TRUCK, 8 CUBIC YARD							
			MINIMUM CAPACITY	HOUR						40
	A2460	62201-0850	WHEEL LOADER, 1 CUBIC YARD							
			MINIMUM RATED CAPACITY	HOUR						40
	A2480	62201-2050	ROLLER	HOUR						40
	A2500	62201-2750	MOTOR GRADER	HOUR						40
1	A2520	62301-0000	GENERAL LABOR	HOUR	1					40
1			SPECIAL LABOR, HIRED							
			TECHNICAL SERVICES	HOUR						40

Date Completed: 08/17/21 Report Date: 08/17/21

STATE	PROJECT	SHEET NUMBER
CA	FTBL DUMONT DUNES (1)	B1

s	
	Remarks and/or Determination of Estimated Quantity
	Paved section and Low water crossing section
	C 68832
	20 20022 H
	CIVIL VIE OF CALIFORN

SUMMARY OF QUANTITIES - Schedule A

~						9	Sheet and Descriptior	1		Estimated Quantities	
M	Line	Development			B5	B6-B7	B8	В9	0	Estimated Quantities	
E N D	Item No.	Pay Item Number	Pay Item Description	Unit	Surfacing Summary	Permanent Traffic Control Summaries	TTC Summaries	Miscellaneous Summaries	Allowance	Bid Schedule	Remarks and/or Determination of Estimated Quantity
	A2560	62302-1100	SPECIAL LABOR, HIRED SURVEY								
			SERVICES	HOUR				8		8	
	A2580	62303-1000	SPECIAL LABOR, HIRED								Authorized tortoise biologist
			TECHNICAL SERVICES (Biologist)	LPSM						ALL	
	A2600	63301-0000	SIGN SYSTEM	EACH		12			1	13	
	A2620	63309-0000	DELINEATOR	EACH				21		21	
	A2640	63401-1500	PAVEMENT MARKINGS, TYPE H,								
			SOLID (White)	LNFT		34,420			80	34,500	
	A2660	63401-1500	PAVEMENT MARKINGS, TYPE H,								
			SOLID (Yellow)	LNFT		8,600			150	8,750	
	A2680	63401-1600	PAVEMENT MARKINGS, TYPE H,								
			BROKEN (Yellow)	LNFT		12,786			384	13,170	
	A2700	63406-0000	RAISED PAVEMENT MARKER	EACH		1,880			120	2,000	Centerline and speed strip clusters
	A2720	63501-0000	TEMPORARY TRAFFIC CONTROL	LPSM			All			ALL	

MileStone: 100% Design Date Completed: 08/17/21 Report Date: 08/17/21

STATE	PROJECT	SHEET NUMBER
СА	FTBL DUMONT DUNES (1)	B2



SUMMARY OF QUANTITIES - Option X

						S	heet and Description			Estimated Quantities		
A M	Line	Davida			B5	B6-B7	B8	B9	0	Estimated Quantities		
E N D	Item No.	Pay Item Number	Pay Item Description	Unit	Surfacing Summary	Permanent Traffic Control Summaries	TTC Summaries	Miscellaneous Summaries	Allowance	Bid Schedule	Remarks and/or Determination of Estimated Quantity	
	X2000	15101-0000	MOBILIZATION	LPSM						ALL		
	X2020	15301-0000	CONTRACTOR QUALITY CONTROL	LPSM						ALL		
	X2040	15401-0000	CONTRACTOR TESTING	LPSM						ALL		
	X2060	15802-0000	WATERING FOR DUST CONTROL	LPSM						ALL		
	X2080	30202-2100	ROADWAY AGGREGATE, METHOD 2,									
			SURFACE COURSE	TON	421				19	440		
	X2100	62201-0200	DUMP TRUCK, 8 CUBIC YARD									
			MINIMUM CAPACITY	HOUR						4		
	X2120	62201-0850	WHEEL LOADER, 1 CUBIC YARD									
			MINIMUM RATED CAPACITY	HOUR						4		
	X2140	62201-2050	ROLLER	HOUR						4		
	X2160	62201-2750	MOTOR GRADER	HOUR						4		
	X2180	62301-0000	GENERAL LABOR	HOUR						4		

MileStone: 100% Design Date Completed: 08/17/21 Report Date: 08/17/21

STATE	PROJECT	SHEET NUMBER
СА	FTBL DUMONT DUNES (1)	В3



SUMMARY OF QUANTITIES - Option Y

~							Sheet and Descriptior	 ו		Estimated Quantities
A M	Line	Pay Item			B5	B6-B7	B8	В9	0	Estimated Quantities
E N D	Item No.	Number	Pay Item Description		Surfacing Summary	Permanent Traffic Control Summaries	TTC Summaries	Miscellaneous Summaries	Allowance	Bid Schedule
	Y2000	15101-0000	MOBILIZATION	LPSM						ALL
	Y2020	15210-3000	CENTERLINE, VERIFICATION AND							
			STAKING	MILE				0.752		0.752
	Y2040	15301-0000	CONTRACTOR QUALITY CONTROL	LPSM						ALL
	Y2060	15401-0000	CONTRACTOR TESTING	LPSM						ALL
	Y2080	15501-0000	CONSTRUCTION SCHEDULE	LPSM						ALL
	Y2100	15701-0000	SOIL EROSION CONTROL	LPSM						ALL
	Y2120	15802-0000	WATERING FOR DUST CONTROL	LPSM						ALL
	Y2140	20301-2400	REMOVAL OF SIGN	EACH		11			1	12
	Y2160	30202-2100	ROADWAY AGGREGATE, METHOD 2,							
			SURFACE COURSE	TON	4,598				202	4,800
	Y2180	62201-0200	DUMP TRUCK, 8 CUBIC YARD							
			MINIMUM CAPACITY	HOUR						10
	Y2200	62201-0850	WHEEL LOADER, 1 CUBIC YARD							
			MINIMUM RATED CAPACITY	HOUR						10
	Y2220	62201-2050	ROLLER	HOUR						10
	Y2240	62201-2750	MOTOR GRADER	HOUR						10
	Y2260	62301-0000	GENERAL LABOR	HOUR						10
	Y2280	62302-1100	SPECIAL LABOR, HIRED SURVEY							
			SERVICES	HOUR				8		8
	Y2300	63301-0000	SIGN SYSTEM	EACH		10			1	11
	Y2320	63309-0000	DELINEATOR	EACH				27		27
	Y2340	63316-1000	REMOVE AND RESET SIGN	EACH		2				2
	Y2360	63501-0000	TEMPORARY TRAFFIC CONTROL	LPSM			All			ALL

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S Remarks and/or Determination of Estimated Quantity Image:		
Remarks and/or Determination of Estimated Quantity	s	
		Remarks and/or Determination of Estimated Quantity



					SU	RFACING S	SUMMARY				
		Item Number	30202-2100	30302-4000	30401-5500	40301-0100	40601-0000	41105-0000	41102-1000	41201-0000	
I	Locatio	n	ROADWAY AGGREGATE, METHOD 2, SURFACE COURSE	ROADBED RECONDITIONING	FULL DEPTH RECLAMATION, METHOD 2, 8-INCH DEPTH	ASPHALT CONCRETE PAVEMENT, TYPE 1	FOG SEAL	BLOTTER	PRIME COAT, METHOD 1	TACK COAT	Remarks
Station	to	Station	TON	LNFT	MILE	TON	TON	TON	SQYD	TON	
				-	Schedule	Α	·	·	·		
Dumor	nt Dune	s Road									
100+12	-	100+70	223			112	0.2	3	441	0.2	
100+70	-	158+00	852		1.085	2,590	6.4	113	15,280	6.4	
158+00	-	216+00	863		1.098	2,622	6.4	114	15,467	6.4	
216+00	-	262+75	695		0.885	2,113	5.2	92	12,467	5.2	
262+75	-	265+07	172								Low water crossing
265+07	-	267+00	29		0.036	87	0.2	4	514	0.2	
Little Dun	nont Du	ines Road									
502+12	-	502+78	236			119	0.2	3	467	0.2	
502+78	-	506+50	55	372		181	0.4	8	1,071	0.4	Includes pullout at kiosk
S	Schedul	e A TOTALS	3,126	372	3.106	7,824	19.0	337	45,707	19.0	
					Option	Y					
Dumor	nt Dune	s Road									
267+00	-	306+69	4,190								Fee station area
Parking	g at Fee	e station	305								
IC	C Acce	ess	103								As needed to provide a uniform level surface and match finish grade at existing concrete pads
	Optio	n Y TOTALS	4,598	0	0	0	0	0	0	0	
					Option 2	X					
ncident Con	nmand	Center (ICC)	421								
	Optio	n X TOTALS	421	0	0	0	0	0	0	0	

SURFACING APPLICA	TIONS RATES A	ND WEIGHTS
Aggregate Base =	139 lb/ft3	2000 lb/ton
Asphalt Concrete Pavement =	145.2 lb/ft3	2000 lb/ton
Fog seal =	0.10 gal/yd2	240 gal/ton
Blotter =	14.75 lb/yd2	2000 lb/ton
Prime Coat =	0.27 gal/yd2	240 gal/ton
Tack Coat =	0.10 gal/yd2	240 gal/ton

_User: DENPW

/17/2021

STATE	PROJECT	SHEET NUMBER	
CA	FTBL DUMONT DUNES (1)	В5	



FHWA, OFFICE OF FEDERAL LANDS HIGHWAY

SURFACING SUMMARY

		Item Number			20301-2400	63301-0000	63316-1000	
SIGN Number	MUTCD Number	Description	Panel size	Background Color	REMOVAL OF SIGN	SIGN SYSTEM	REMOVE AND RESET SIGN	Remarks
	Number	-		Color	EACH	EACH	EACH	
		Schedu	le A					
Dumont D	unes Road			1	1			
1		STOP	30"x30"	Red	1	1		
2		SPEED LIMIT	24"x30"	White	1	1		25 mph
3		NO PARKING ANY TIME	12"x18"	White	1	1		Bi-directional
4		SPEED LIMIT	24"x30"	White	1	1		25 mph
5		SPEED LIMIT	24"x30"	White	1	1		25 mph
6	R2-1	SPEED LIMIT	24"x30"	White	1	1		25 mph
7	R2-1	SPEED LIMIT	24"x30"	White	1			25 mph
7a	R2-1	SPEED LIMIT	24"x30"	White		1		25 mph
8	R2-1	SPEED LIMIT	24"x30"	White	1	1		25 mph
9	R2-1	SPEED LIMIT	24"x30"	White		1		15 mph
10	W8-18	ROAD MAY FLOOD	36"x36"	Yellow		1		
10a	W8-18	ROAD MAY FLOOD	36"x36"	Yellow		1		
ittle Dum	ont Dunes I	Road						
23	R1-1	STOP	30"x30"	Red		1		
				le A TOTALS	8	12		
		Optio						
Dumont D	unes Road							
11		PEDESTRIAN	24"x24"	Yellow	1	1		
11a	W16-9P		18"x12"	Yellow				Mounted on the same pos W11-2
12		5 MPH/PREPARE TO STOP		White	1			
12a		SPEED LIMIT	24"x30"	White			1	5 mph
12b	SPECIAL	PREPARE TO STOP	24"x18"	White				Mounted on the same pos R2-1
12c	EXISTING	PURCHASE PASS LANES		Brown				Mounted on the same pos R2-1
13	R5-1	DO NOT ENTER	30"x30"	Red	1	1		
13a		PARK TO BUY PASS		Brown			1	
13b		PAY HERE		Brown				Mounted on the same pop PARK TO BUY PASS
14	W11-2	PEDESTRIAN	24"x24"	Yellow	1	1		
14a	W16-9P	AHEAD	18"x12"	Yellow				Mounted on the same po W11-2
15	R2-1	SPEED LIMIT	24"x30"	White	1	1		15 mph
16		CAUTION/ SPEED BUMPS AHEAD		Yellow	1			
17	W8-1	BUMP	30"x30"	Yellow		1		
17a	W16-9P	AHEAD	18"x12"					Mounted on the same po W11-2
18	W11-2	PEDESTRIAN	30"x30"	Yellow	1	1		
19		PEDESTRIAN	30"x30"	Yellow	1	1		
20		PEDESTRIAN	30"x30"	Yellow	1	1		
21		PEDESTRIAN	30"x30"	Yellow	1	1		
22		DO NOT ENTER	30"x30"	Red	1	1		
				on Y TOTALS		10	2	

1. Use U-channel posts.

		STATE	PROJECT	SHEET
		CA	FTBL DUMONT DUNES (1)	NUMBER B6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	SPECIAL SIGN DET	TAIL		
	Ja	mes	ED PROFESSION MILES MILES OF C 688832 MILES DE CONSTRUCTION C 668832 MILES DE CONSTRUCTION DE	
	FHWA, OFFICE OF FED PERMANEN CONTROL S Sheet		RAFFIC MARIES	

				PAVE	MENT	MARKINGS	SUM	1ARY			
Ite	em Num	bers	63401-1500	FI	$\mathbf{D}(1)$	63401-1500	FIO(1)	63401-1600		63406-0000	
Stat	ion to S	tation	PAVEMENT MARKINGS, TYPE H, SOLID (White)	Stop Bar Striping	White lines	PAVEMENT MARKINGS, TYPE H, SOLID (Yellow)	Double Center Line	PAVEMENT MARKINGS, TYPE H, BROKEN (Yellow)	Center Line	RAISED PAVEMENT MARKER	
				White	White		Yellow		Yellow		
			LNFT	LNFT	LNFT	LNFT	LNFT	LNFT	LNFT	EACH	
						Schedule A					
Dumo	nt Dun	es Road									
100+12	to	267+00	33376		33376						
100+32			77	77							S
100+32	to	100+82				100	100				
100+82	to	225+00						12,418	12,418	320	R
225+00	to	267+00				8,400	8,400			420	R
Little Du	mont D	unes Road									
502+12	to	506+50	876		876						
502+32			92	92							S
502+32	to	502+82				100	100				
502+32	to	506+50						368	368		
		Schedule A TOTALS	34,420			8,600		12,786		740	

FIO = For information only
 FIO = For information only
 For line widths other than 4 inches, the measured length of line is adjusted in the ratio of the required width to 4 inches.
 Use Raised Pavement Markers in center line. See Special 634-A for details.

		STATE	PROJECT	SHEET
		CA	FTBL DUMONT DUNES (1)	NUMBER B7
	l			
	1			
Remarks				
	_			
	4			
	-			
Stop Bar 12" wide	1			
Nop Dui 12 Wide	1			
RPMs centerline				
RPMs centerline				
Stop Bar 12" wide	-			
	-			
	1			
			DROFESS/OA	
			ED MES MIL	1
		24	JAM SA	//
		<u> </u> ğ	LED PROFESSION AL	
			Digitally signed by James Mile	
	Jar	nks	Digitally signed by James Mils DN: CN=James Mils, dnCualifier=A01410D00000175 O=Colorado, C=US Date: 2021.09.20 17:55/02-06'00'	72B FE500001FB8,
			Date: 2021.09.20 17:55 02-06'00'	/
			STATE OF CALIFORNIA	

FHWA, OFFICE OF FEDERAL LANDS HIGHWAY



[
		S	URVEY AND	STAKING	SUMMARIE	S	
	Ite	em Number	15210-3000	15215-3000	15216-3000	62302-1100	
Location		CENTERLINE, VERIFICATION AND STAKING	SURVEY AND STAKING, DRAINAGE STRUCTURE	SURVEY AND STAKING, TEMPLATE CONTROL	SPECIAL LABOR, HIRED SURVEY SERVICES	Remarks	
Station	to	Station	MILE	EACH	MILE	HOUR	
			Sched	ule A			
Dumont Du	unes Road						
100+12	-	267+00		1	3.161		
Little Dum	ont Dunes	Road					
502+12	-	506+50			0.083		
As	directed by	CO				8	
	Schedule	A TOTALS		1	3.244	8	
			Optio	on Y			
Dumont Du	unes Road						
267+00	-	306+69	0.752	-	-		
As	directed by	CO				8	
	Option	Y TOTALS	0.752	-	-	8	

		LOW WA	TER CROSSING	G SUMMARY	
Item Number 25101-2300		55201-0200	55401-2000		
Location		PLACED RIPRAP, METHOD B, CLASS 3	STRUCTURAL CONCRETE, CLASS A (AE)	REINFORCING STEEL, EPOXY COATED	Remarks
to	Station	CUYD	CUYD	LBS	
		Schedul	e A		
Dunes Ro	bad				
-	265+07	400	257	15,562	Low water crossing
hedule A	TOTALS	400	257	15,562	
	Location to Dunes Ro	Location to Station Dunes Road - 265+07	Item Number 25101-2300 Location PLACED RIPRAP, METHOD B, CLASS 3 to Station CUYD Schedule Dunes Road - 265+07 400 - 100	Item Number25101-230055201-0200LocationPLACED RIPRAP, METHOD B, CLASS 3STRUCTURAL CONCRETE, CLASS A (AE)toStationCUYDCUYDSchedule ADunes Rote-265+07400257-265+07400257	LocationPLACED RIPRAP, METHOD B, CLASS 3STRUCTURAL CONCRETE, CLASS A (AE)REINFORCING STEEL, EPOXY COATEDtoStationCUYDLBSSchedule ADunes Road-265+0740025715,56215,562

Note: 1. Use geotextile filter, class 2, Type C non-woven. See subsection 714.01 (a).

	DELII	NEATOR	S SUMMAR	Y
	Ite	m Number	63309-0000	
	Location		DELINEATOR	Remarks
Station	to	Station	EACH	
	Sch	edule A		
Dumont Du	unes Road			
221+50	-	242+50	13	
Little Dum	ont Dunes	Road		
503+00	-	506+00	8	
	Schedule	A TOTALS	21	
	Ol	otion Y		
Dumont Du	unes Road			
273+00	-	278+00	27	
	Option	Y TOTALS	27	
NOTE:				
1 Elevitele	-1 - 1 * 1 -	111 T		

1. Flexible delineator with Type 2 retroflective sheeting.

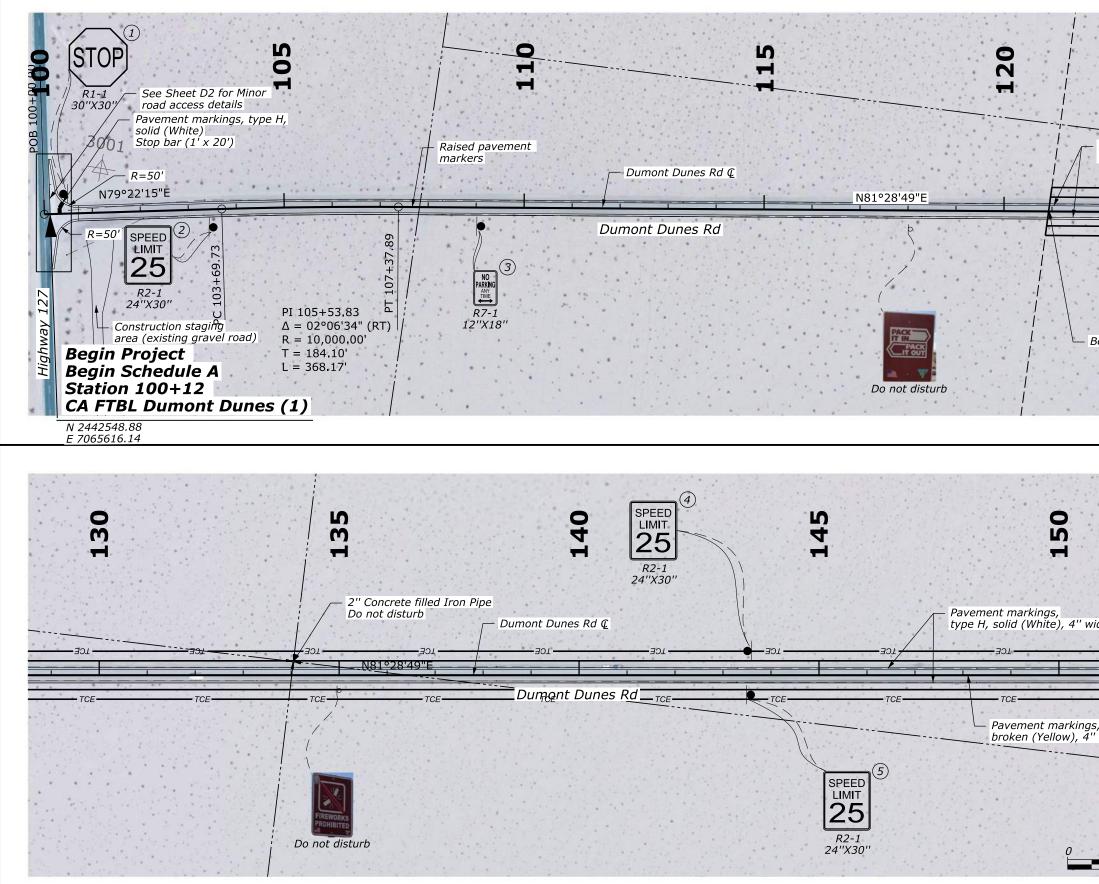
STATE	PROJECT	SHEET NUMBER
CA	FTBL DUMONT DUNES (1)	B8
	•	





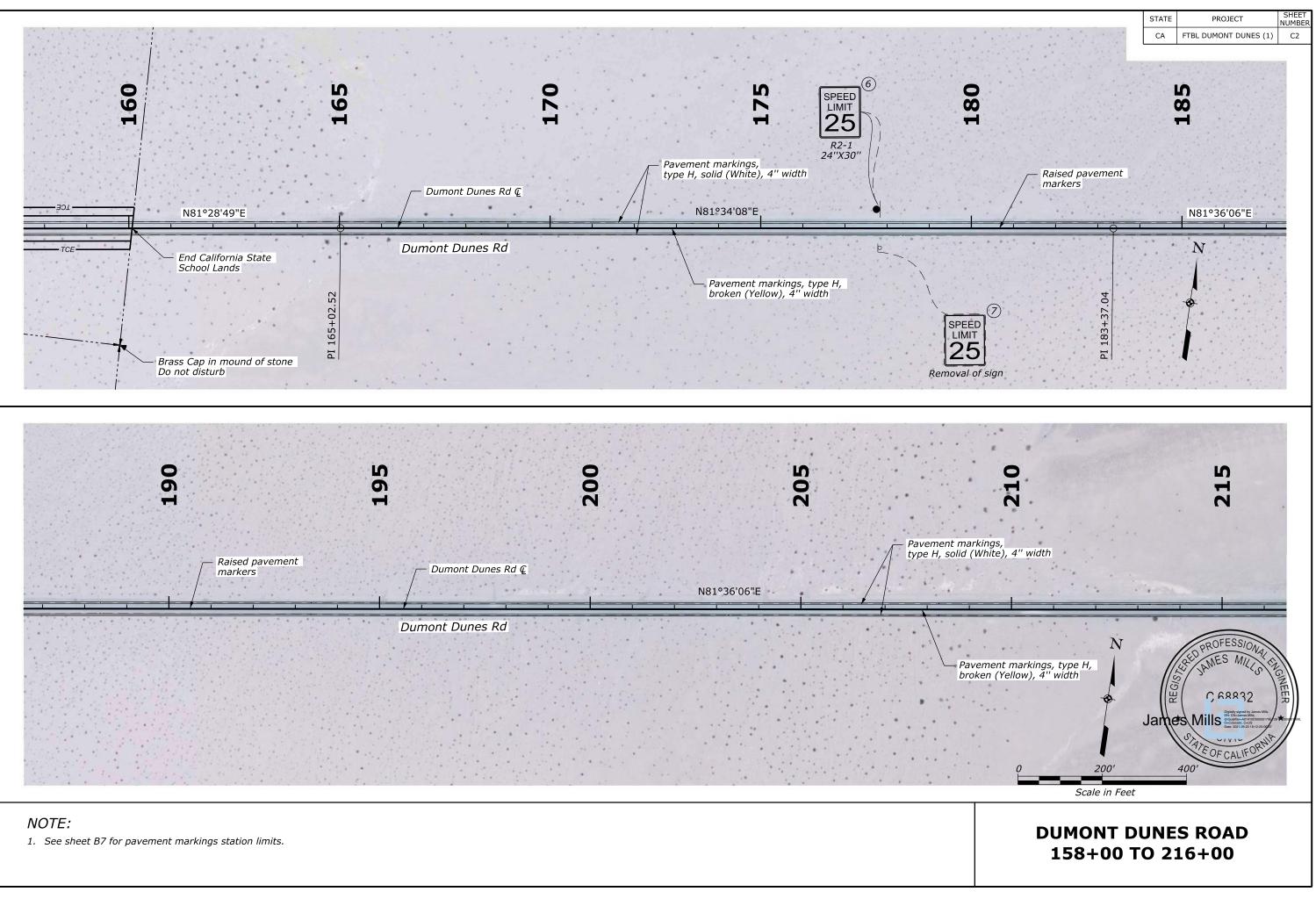
FHWA, OFFICE OF FEDERAL LANDS HIGHWAY

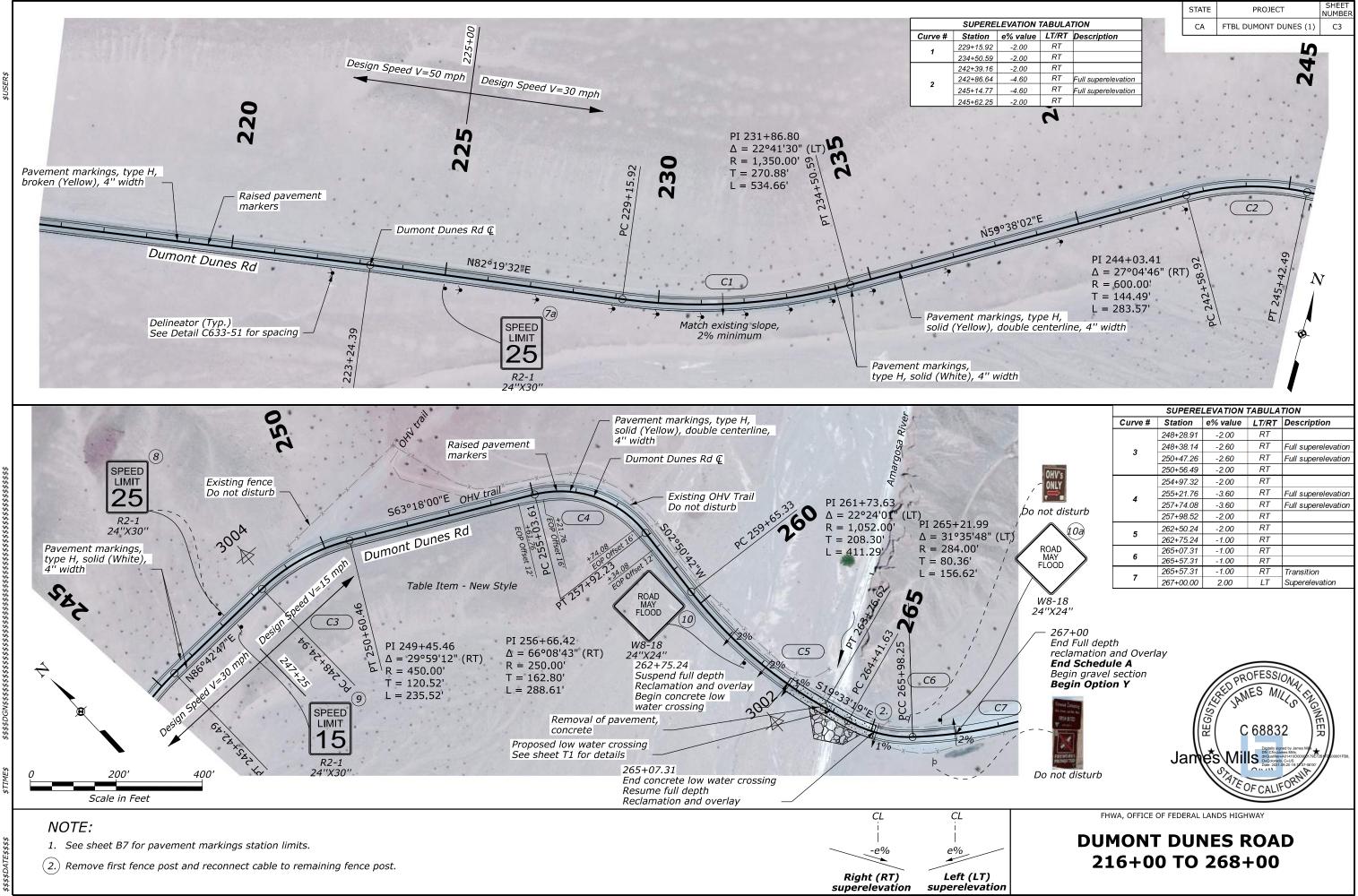
MISCELLANEOUS SUMMARIES



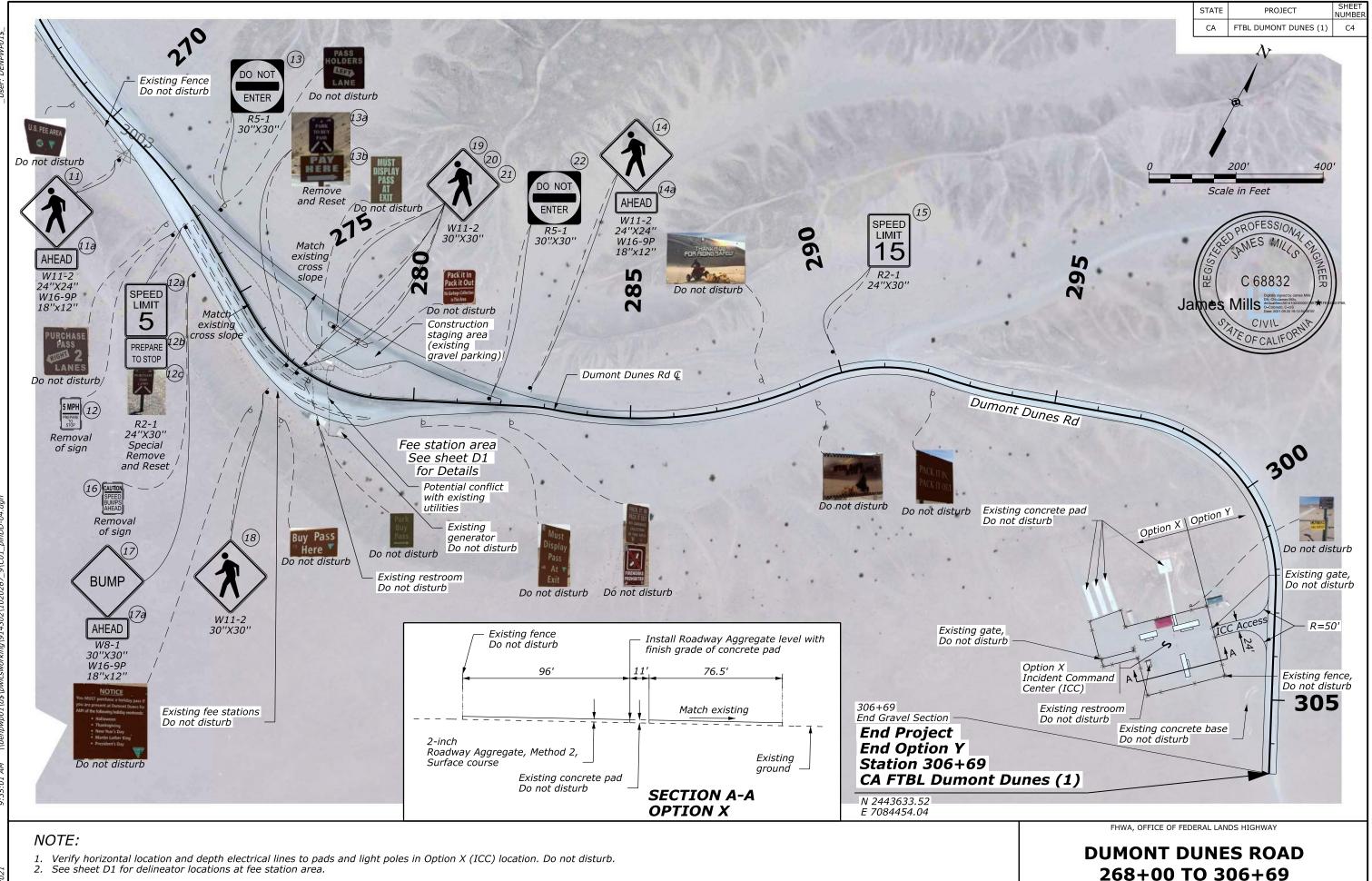
1. See sheet B7 for pavement markings station limits.

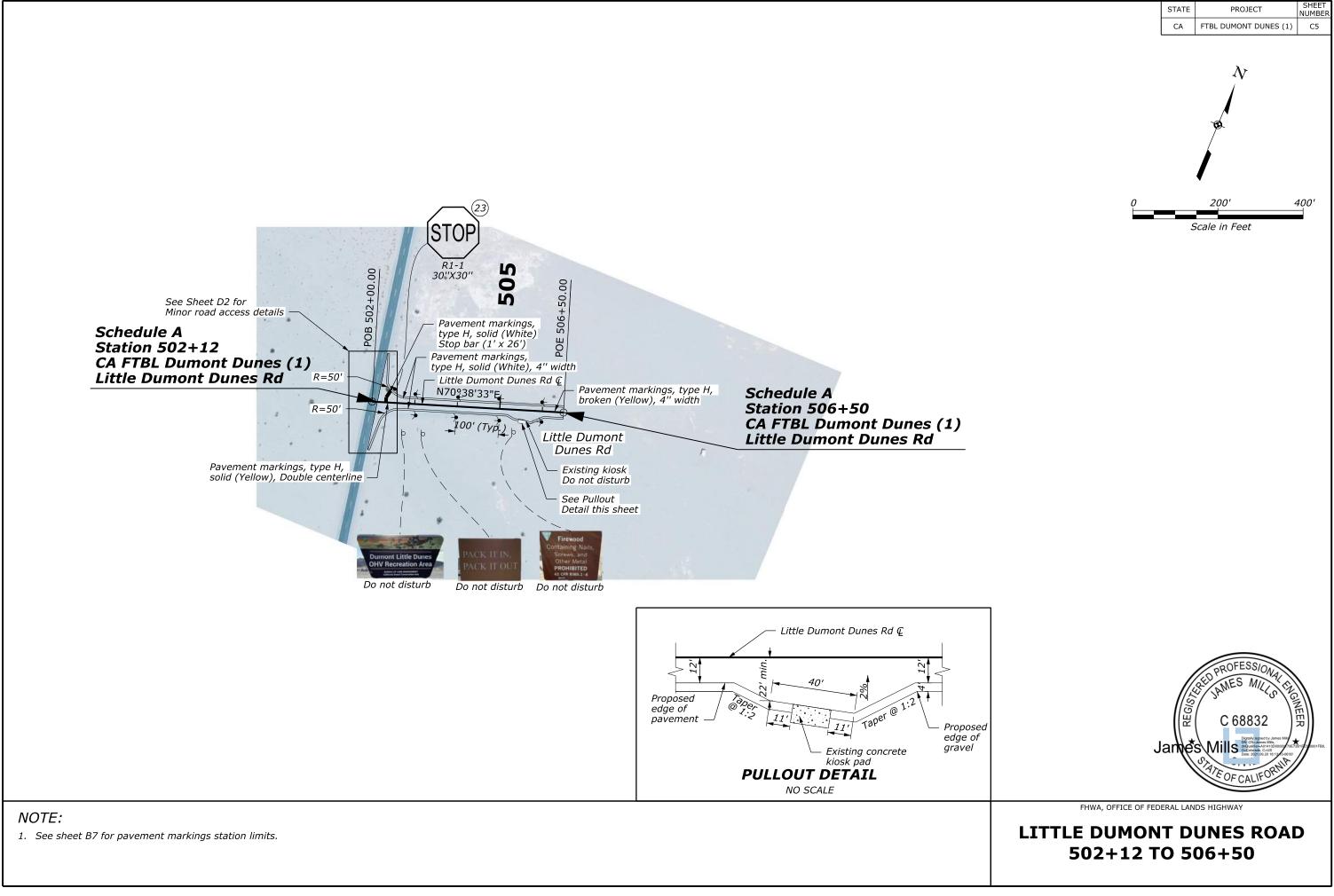
	STATE	PROJECT	SHEET NUMBER
	СА	FTBL DUMONT DUNES (1)	C1
<u>م</u>			
ĥ			
न			
Pavement markings,			1. 1. 1.
type H, solid (White), 4" width			
	14	ЭЭТ —	·=C
		TCE	- 7
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Pavement markings, type H, broken (Yellow), 4" width		IN I	2.1
broken (renow), r whath		· · · · · · · · · · · · · · · · · · ·	
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dth / Raised pavement markers	1.1.		(1.*
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TCE TCE		TCE	- T(
N		TCE-	- / (
s, type H, width			*
	1	RED PROFESSIONAL	
•	710	SAMES MILLS PL	
	REG	C 68832	
Were the state of the	. 11 .	Digitally signed by James Mils DN: CN-James Mils DN: CN-James Mils	
200' 400'	Jante	O-Colorado, C-US Date: 2021.09.20 18:11:5-06'00'	IFECODO1FB8,
Scale in Feet	1	YTE OF CALIFORNIE	
DUMONT D			
100+00 T	01	58+00	

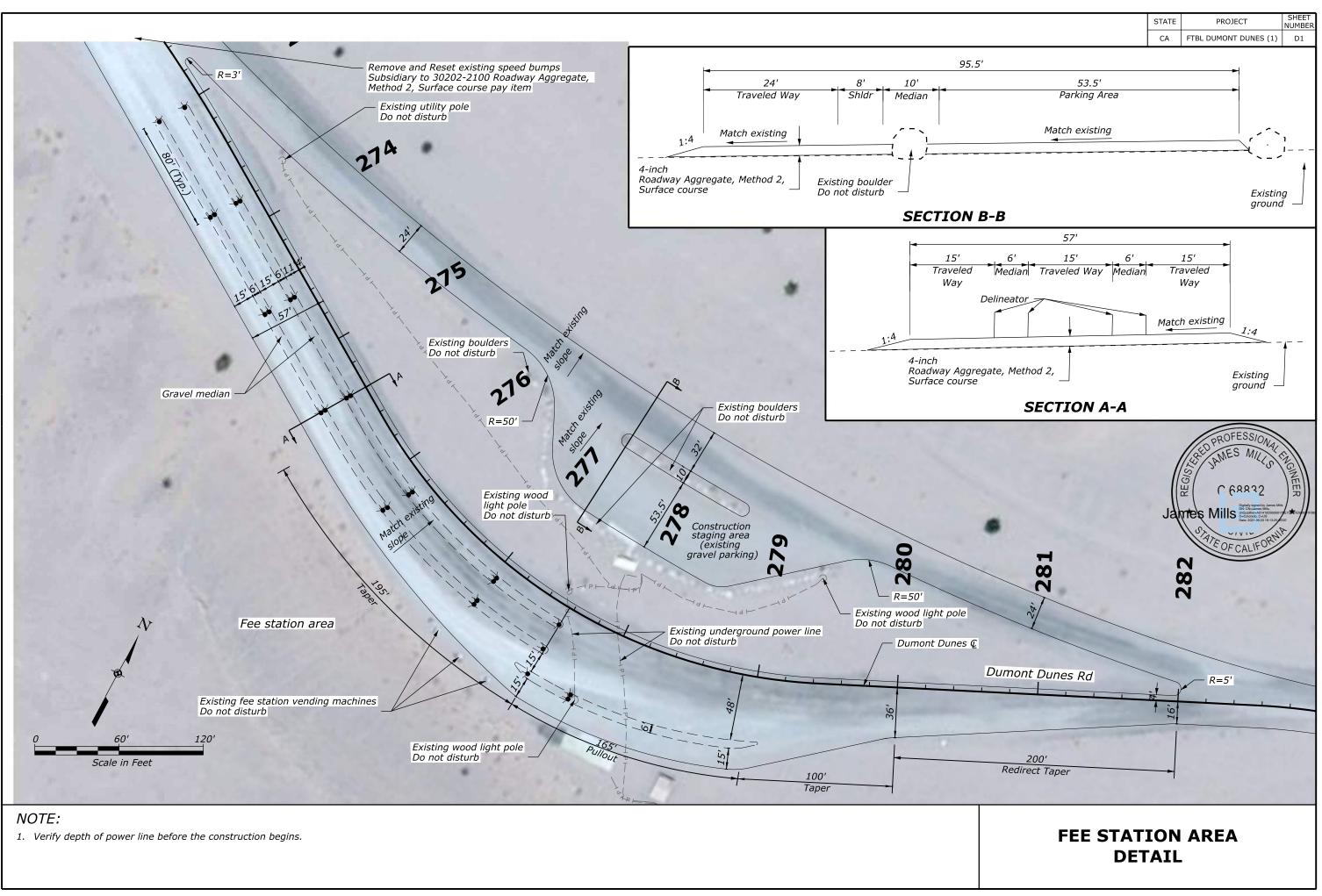


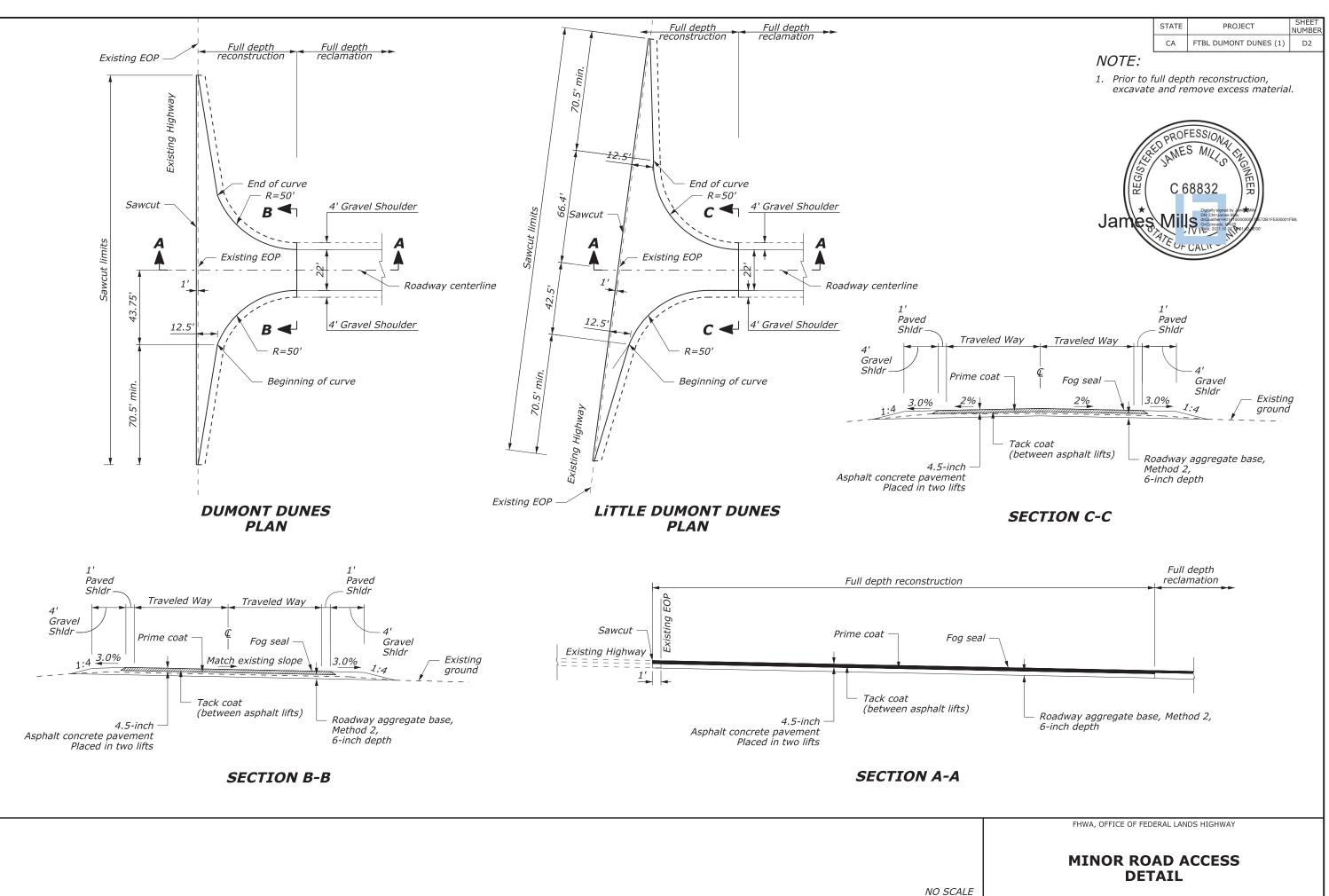


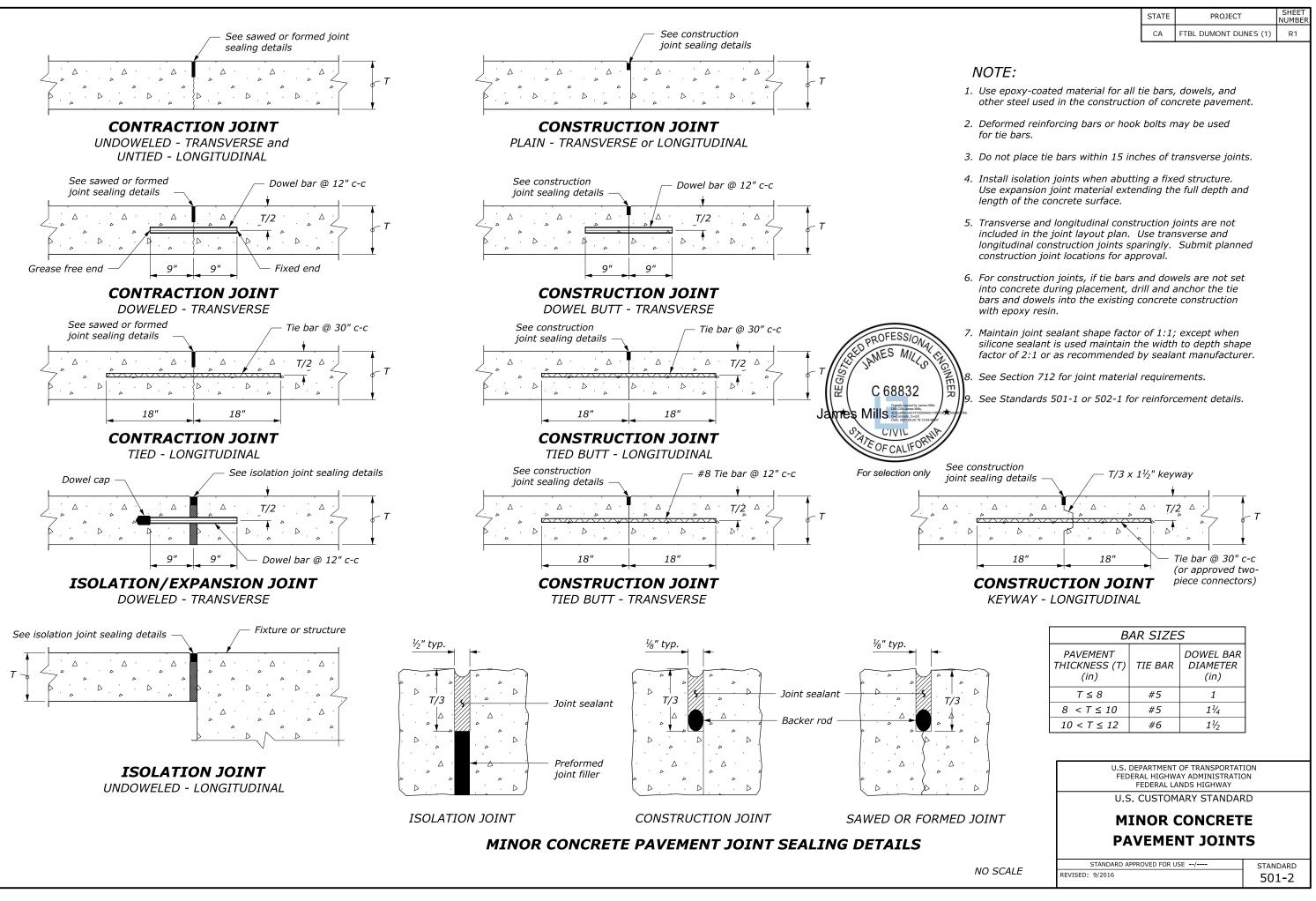
a second		SUPERE	LEVATION	TABULA	TION
	Curve #	Station	e% value	LT/RT	Description
		248+28.91	-2.00	RT	
A		248+38.14	-2.60	RT	Full superelevation
100	3	250+47.26	-2.60	RT	Full superelevation
OHNER		250+56.49	-2.00	RT	
ONLY		254+97.32	-2.00	RT	
		255+21.76	-3.60	RT	Full superelevation
	4	257+74.08	-3.60	RT	Full superelevation
,Do not disturb		257+98.52	-2.00	RT	
	_	262+50.24	-2.00	RT	
(LT)	5	262+75.24	-1.00	RT	
/ ROAD		265+07.31	-1.00	RT	
/ MAY	6	265+57.31	-1.00	RT	
/	7	265+57.31	-1.00	RT	Transition
<i>'</i>		267+00.00	2.00	LT	Superelevation
C7 C7 Do not disturb		Jan	(e [*] s∖Mil	Digitally sig	09.20 18:12:37-06'00'
FH FH	WA, OFFICE	OF FEDERAL			
DUI	MON1 L6+0		NES F	ROA	D

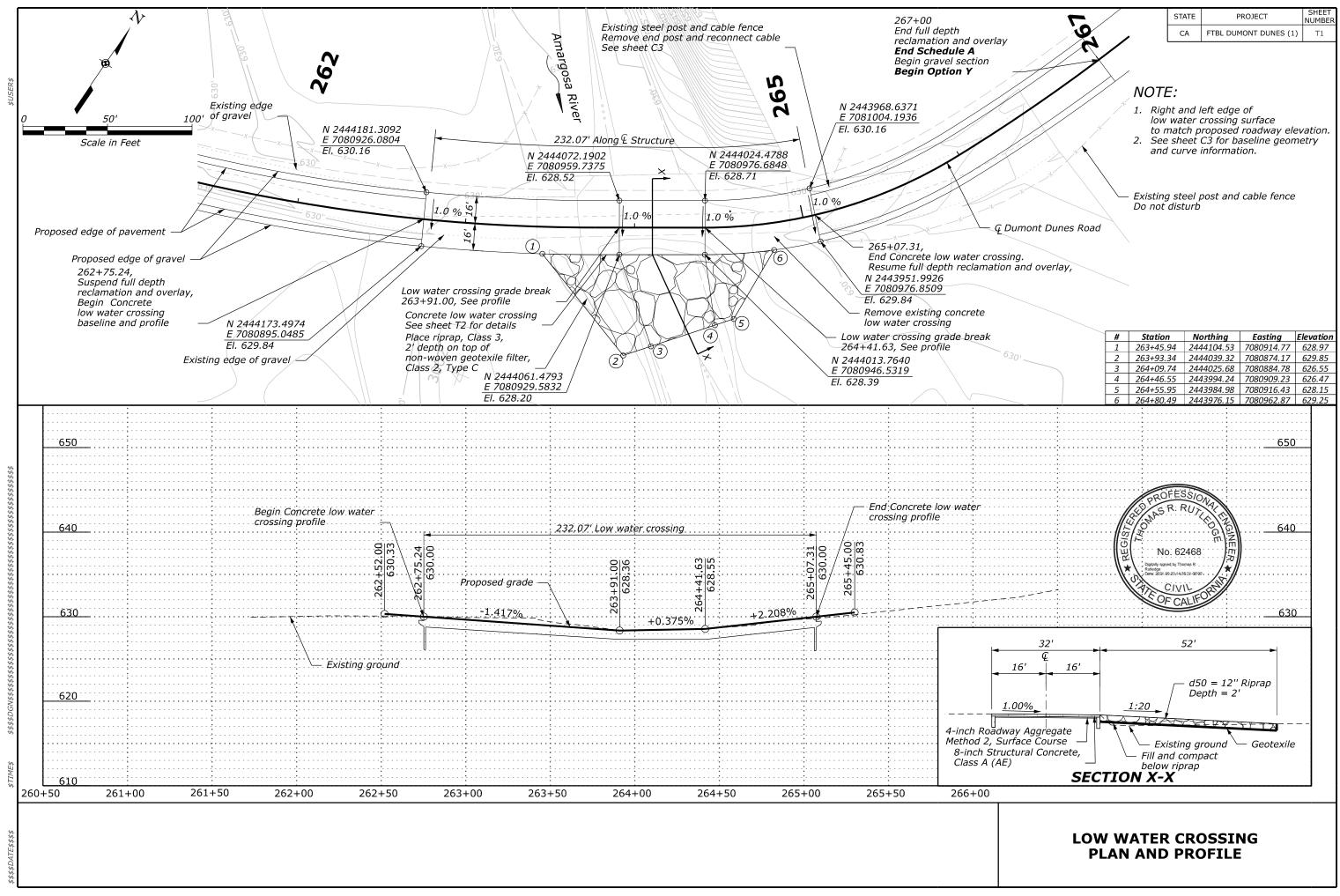


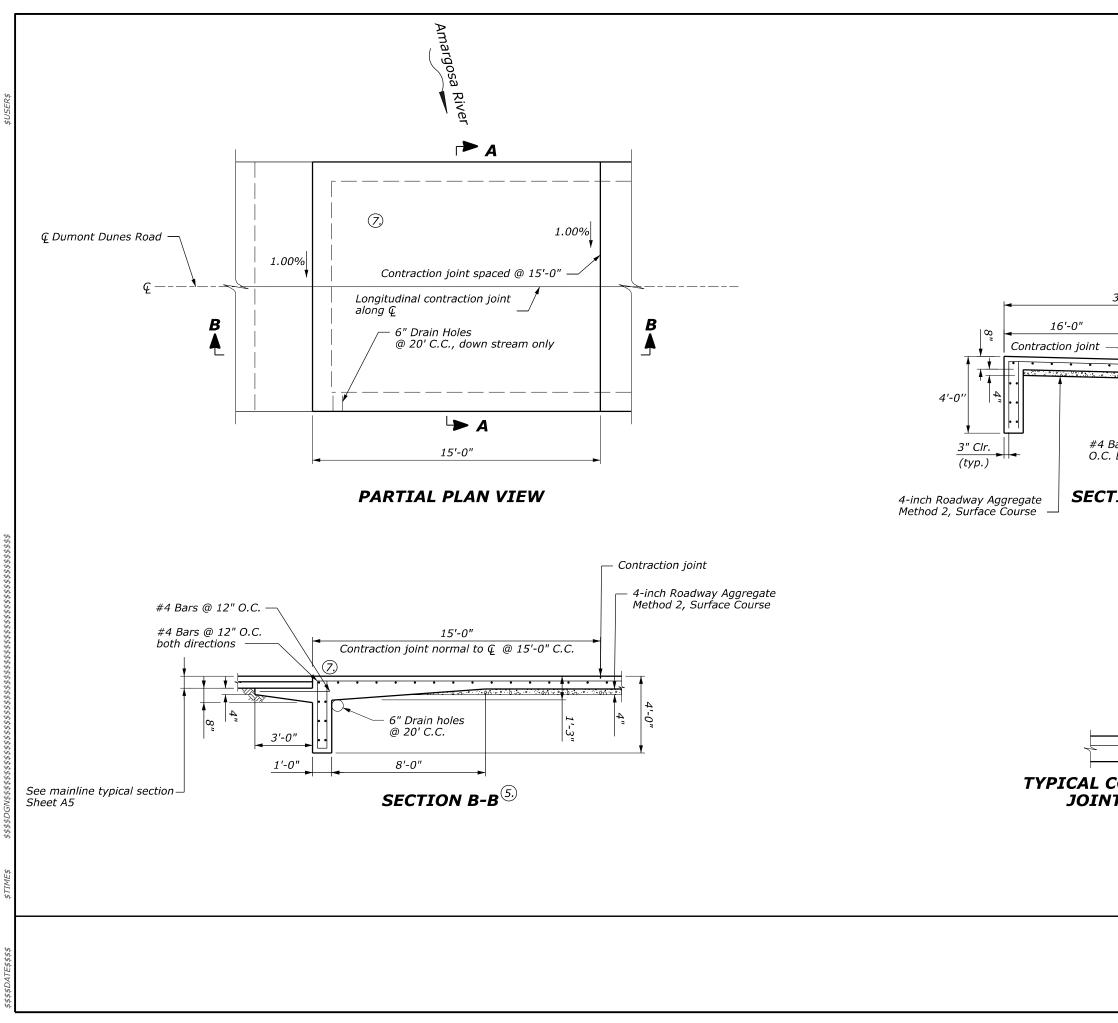




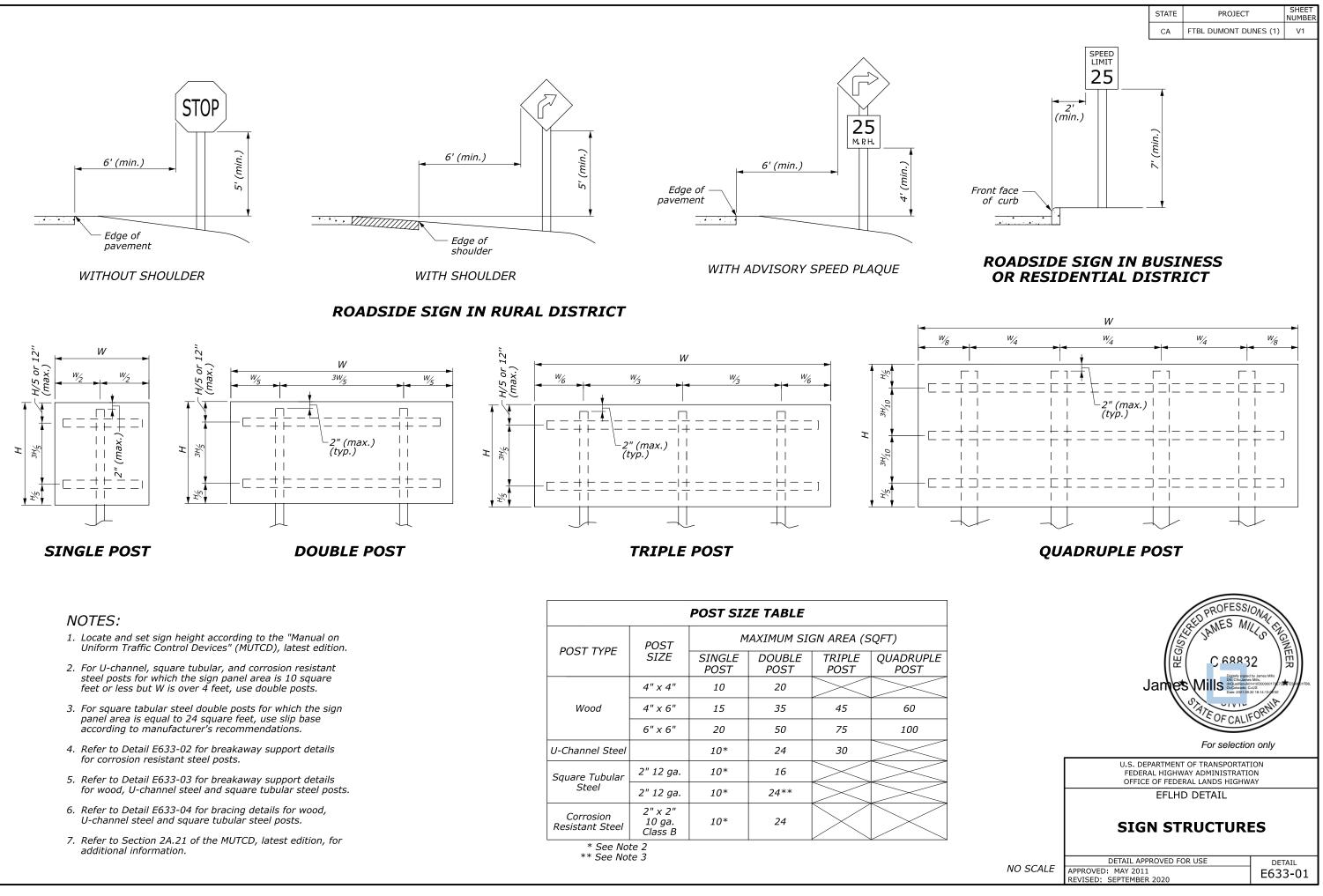


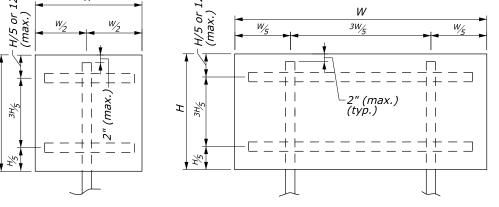




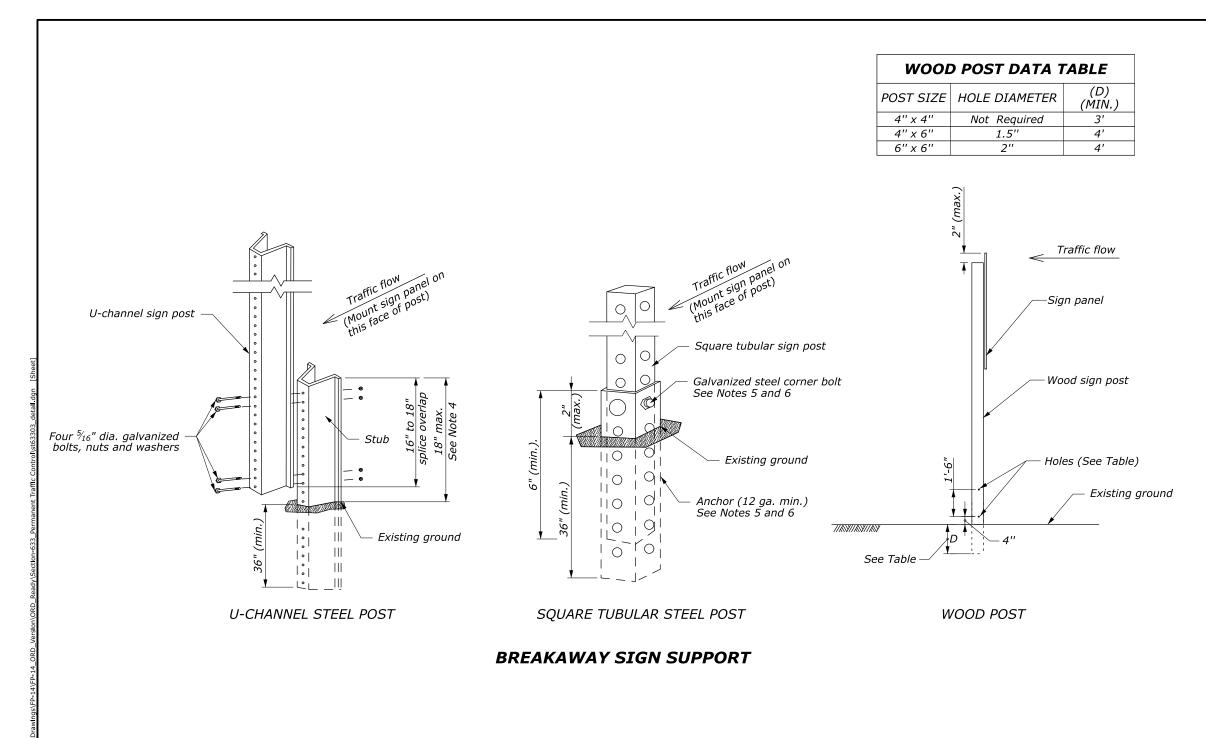


	STATE	PROJECT	SHEET NUMBER
	СА	FTBL DUMONT DUNES (1)	
 NOTE: Use Class A (AE) structural con Use Type II low alkali cement a approval. Use epoxy-coated reinforcing si Screen 6" drain holes to prever under low water crossing. Section B-B detail applies to bo concrete low water crossing. For contraction joints, see Stan Provide a grooved finish accord 	nd subr teel. It mater th ends dard De	rial loss of etail 501-2.	
2'-0" <u>C</u> 16'-0" <u>1.00%</u> (7) <u>1.00%</u> (7)	in holes C.C.		
Contraction joint 3/8" x 1 1/2" (sawed)	× RECIS	PROFESSION CERARD ANT C 63296 EXP. 06/30/22 09/22/21 CIVIL OF CALFORNIA	
ONTRACTION DETAIL		No. 62468	
FHWA, OFFICE OF FED	R CR	OSSING	





POST SIZE TABLE								
POST TYPE	POST	MAXIMUM SIGN AREA (SQFT)						
	SIZE	SINGLE POST	DOUBLE POST	TRIPLE POST	QUADRUPLE POST			
	4" x 4"	10	20	\geq	\geq			
Wood	4" x 6"	15	35	45	60			
	6" x 6"	20	50	75	100			
U-Channel Steel		10*	24	30	\geq			
Square Tubular	2" 12 ga.	10*	16	\geq	\geq			
' Steel	2" 12 ga.	10*	24**	\geq	\geq			
<i>Corrosion Resistant Steel</i>	2" x 2" 10 ga. Class B	10*	24					



CA FTBL DUMONT DUNES (1) V2	STATE	PROJECT	SHEET NUMBER
	CA	FTBL DUMONT DUNES (1)	V2

- 1. Breakaway sign support is not required for signs placed behind protective barriers.
- 2. Signs requiring 6-inch by 6-inch wood posts are considered to be non-breakaway if multiple posts are required and posts cannot be spaced a minimum of 7 feet apart.
- 3. Place non-breakaway signs outside the clear zone or shield with approved barrier. Do not place holes in posts of non-breakaway signs.
- 4. Position splice overlap on U-channel steel posts entirely between the ground line and 18 inches above the ground line. Do not place more than one splice per post.
- 5. Attach the square tubular steel post to the anchor with a corner bolt according to the manufacturer's recommendations. Size the anchor according to the manufacturer's recommendations to accept the post size specified.
- 6. Maintain the post assembly in a plumb position.
- For sign punching details, see the blank standards in the "Standard Highway Signs and Markings" as specified in the latest edition of the MUTCD.
- 8. Refer to Detail E633-01 for sign mounting details.
- 9. Refer to Detail E633-04 for sign bracing details.
- 10. Refer to Section 2A.21 of the MUTCD, latest edition, for additional information.



For selection only

DETAIL

E633-03

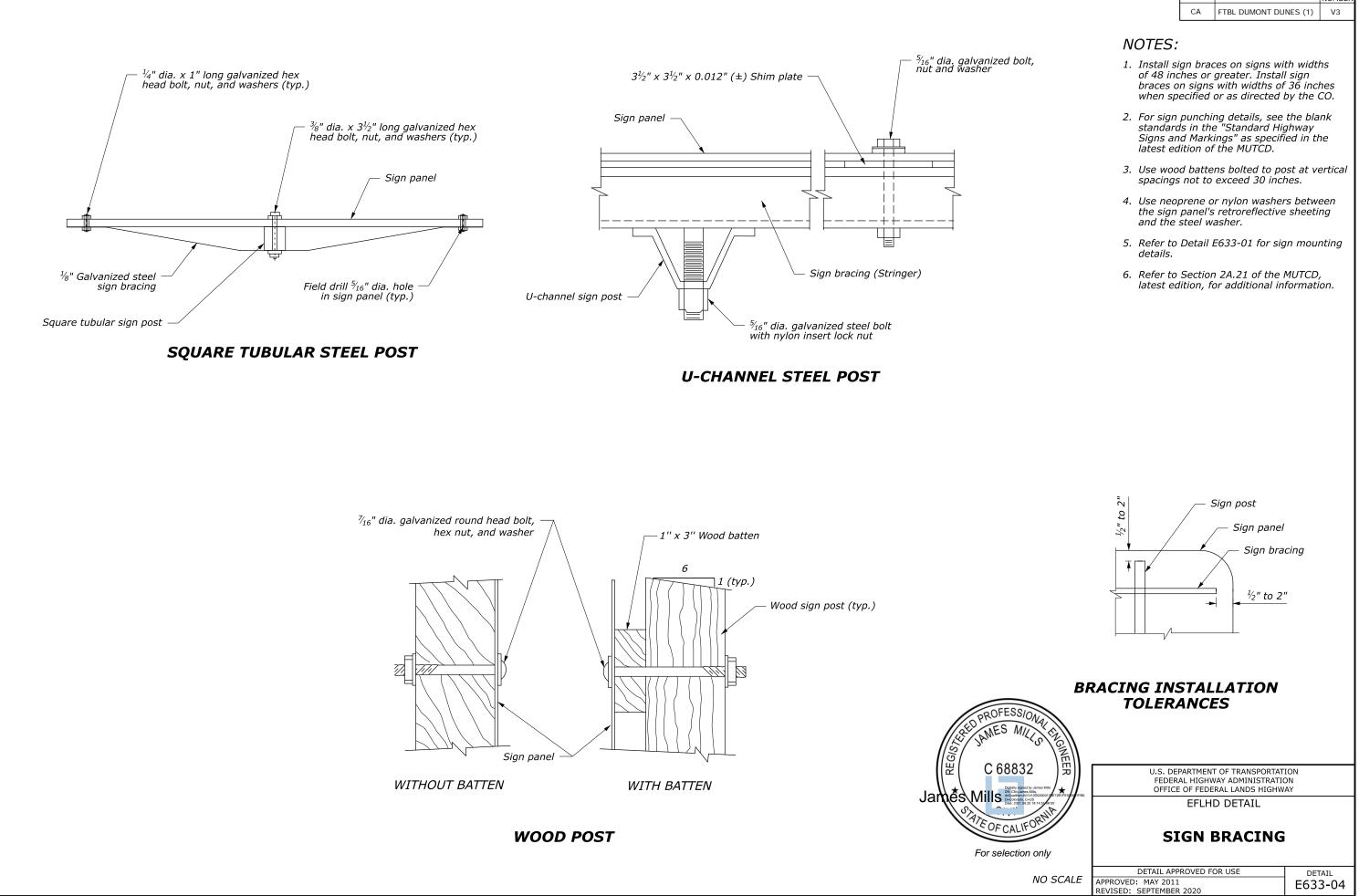
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION OFFICE OF FEDERAL LANDS HIGHWAY EFLHD DETAIL

BREAKAWAY SIGN SUPPORT WOOD AND STEEL POSTS

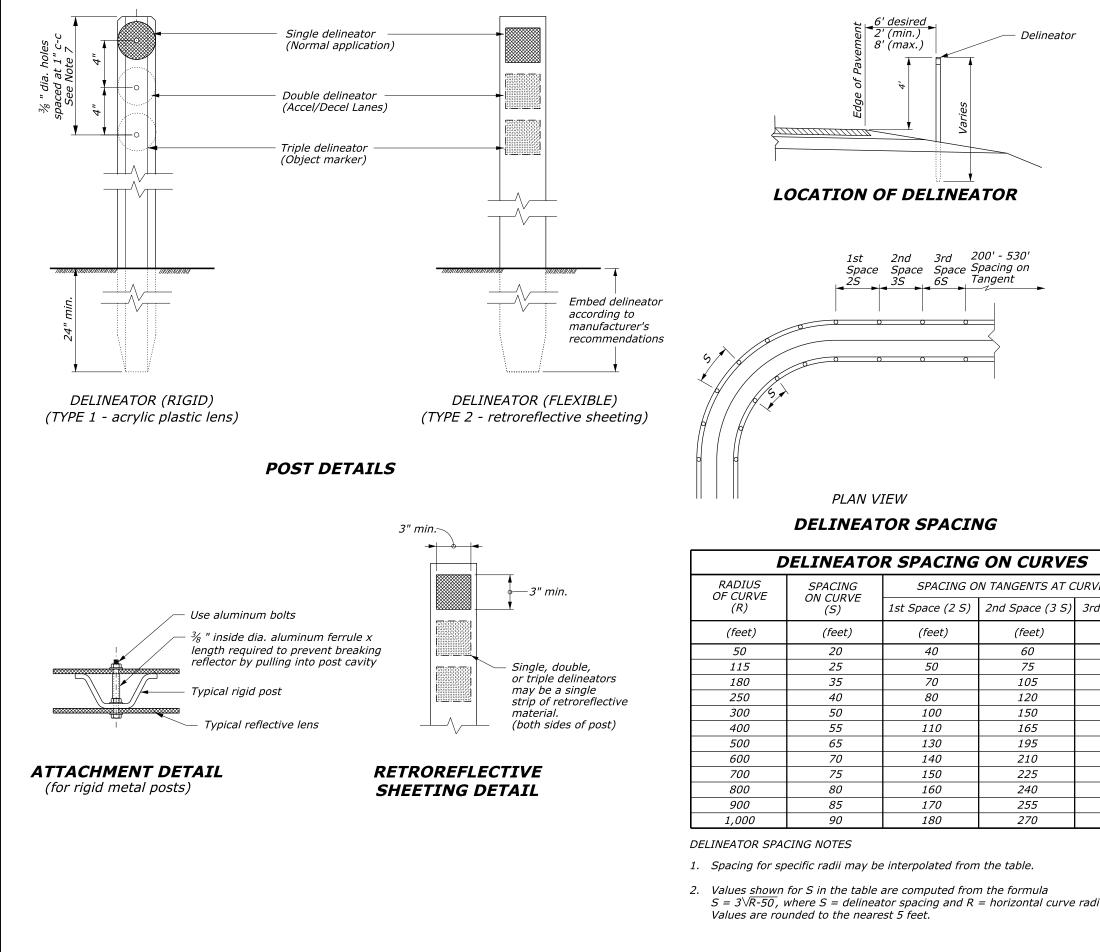
DETAIL APPROVED FOR USE

APPROVED: MAY 2011

REVISED: SEPTEMBER 2020



			STATE	PROJECT	SHEET NUMBER
			СА	FTBL DUMONT DUNES (1)	
	N	OTES:	,		
,	1.	of 48 ind braces o	ches or on signs	ces on signs with wid greater. Install sign with widths of 36 ind or as directed by the	ches
	2.	standaro Signs ar	ds in the nd Mark	ng details, see the bl e "Standard Highway ings" as specified in t the MUTCD.	
	3.			ns bolted to post at v exceed 30 inches.	ertical/
	4.	<i>Use neo</i> the sign and the	panel's	r nylon washers betv retroreflective sheet asher.	veen ting
	5.	Refer to details.	Detail I	E633-01 for sign mou	unting
	6.	Refer to latest er	Sectior	n 2A.21 of the MUTCL or additional informat), tion
	½" to 2"		s	Sign post	
	1/2 "	/		/— Sign panel	
	¥ ▼		 	Sign bracing	
				¹ / ₂ " to 2"	



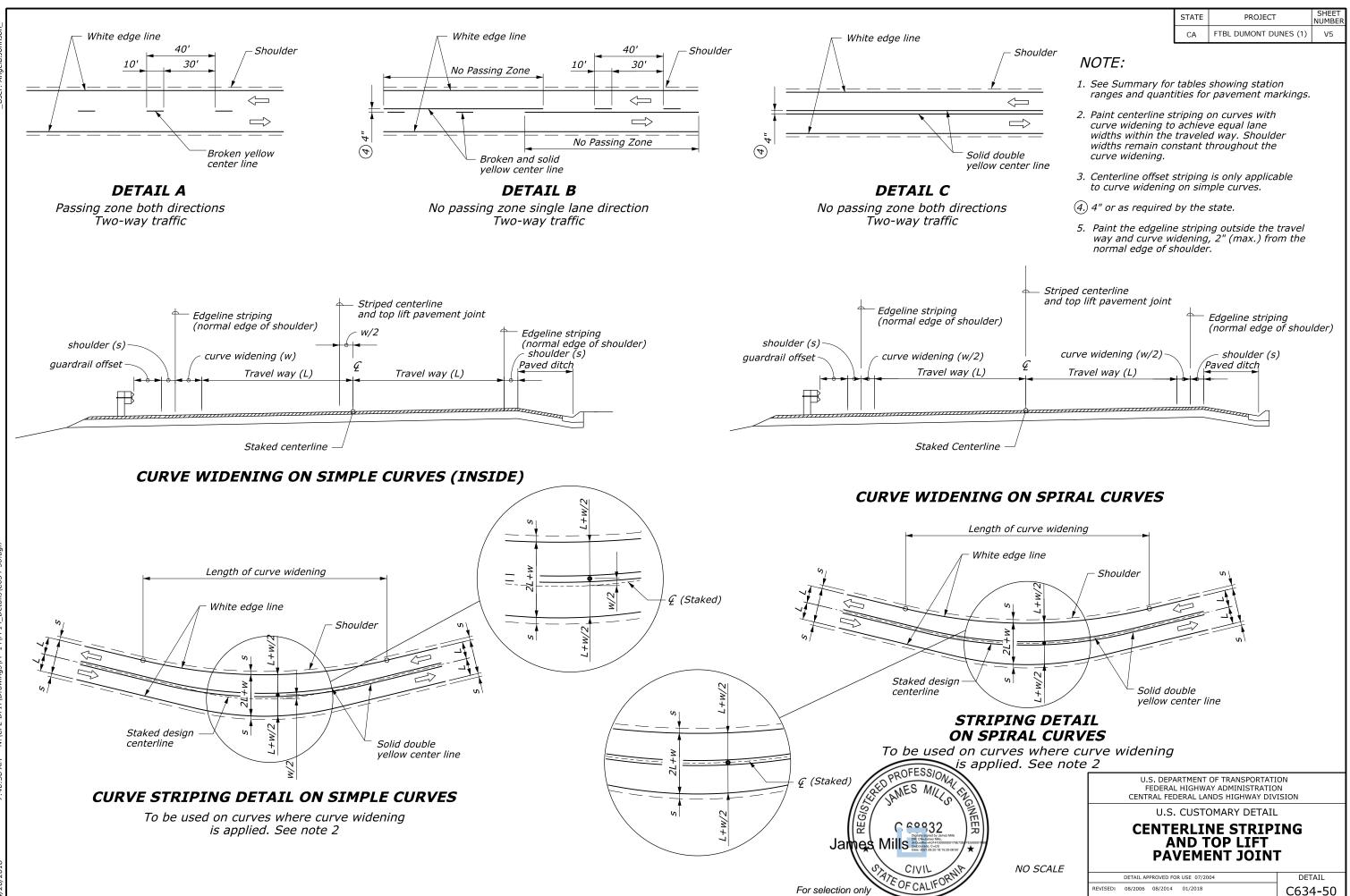
/22/2014

STATE	PROJECT	SHEET NUMBER
CA	FTBL DUMONT DUNES (1)	V4

NOTE:

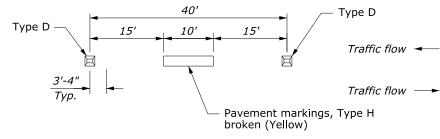
- 1. Match the color of the reflective element with the edge line.
- 2. Use yellow reflective elements for triple delineators installed to mark obstructions.
- *3. Install double delineators on 100-foot spacing for acceleration and deceleration lanes or to mark changes in width.*
- *4. Install reflective elements according to the manufacturer's recommendations.*
- 5. Alternate delineator types may be used with approval of the CO. Provide delineators conforming to the MUTCD and install according to the manufacturer's recommendations.
- 6. Place delineators at a constant distance from the edge of the pavement. Where guardrail intrudes into the space between the edge of pavement and the delineator offset, locate the delineator immediately behind the guardrail.
- 7. A minimum of 12 holes spaced on 1" centers are required for all rigid posts. See Subsection 718.04.
- 8. Furnish anti-theft hardware for mounting retroreflectors as required.
- 9. See Subsection 718.05 for rigid post requirements.

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d Space (6 S)			
(feet)			
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150		PROFESS/	ONA
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300		STALE OF CALIN	118-15-00 OF THE
300		EOFCALI	Oh
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		U.S. DEPARTMENT OF TRANSPORTATI FEDERAL HIGHWAY ADMINISTRATIO CENTRAL FEDERAL LANDS HIGHWAY DIV	N
		U.S. CUSTOMARY DETAIL	-
ius		DELINEATORS	
		DETAIL APPROVED FOR USE 03/2011	DETAIL
NO SCA	4 <i>LE</i>	REVISED: 08/2014	C633-51

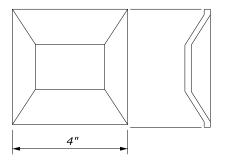


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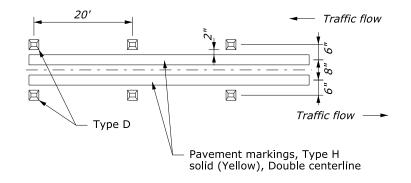
4/26/2018



BROKEN YELLOW LINE Passing zone both directions two-way traffic



REFLECTIVE MARKER Type D - two way yellow reflective marker



DOUBLE SOLID YELLOW LINE

No passing zone both directions two-way traffic

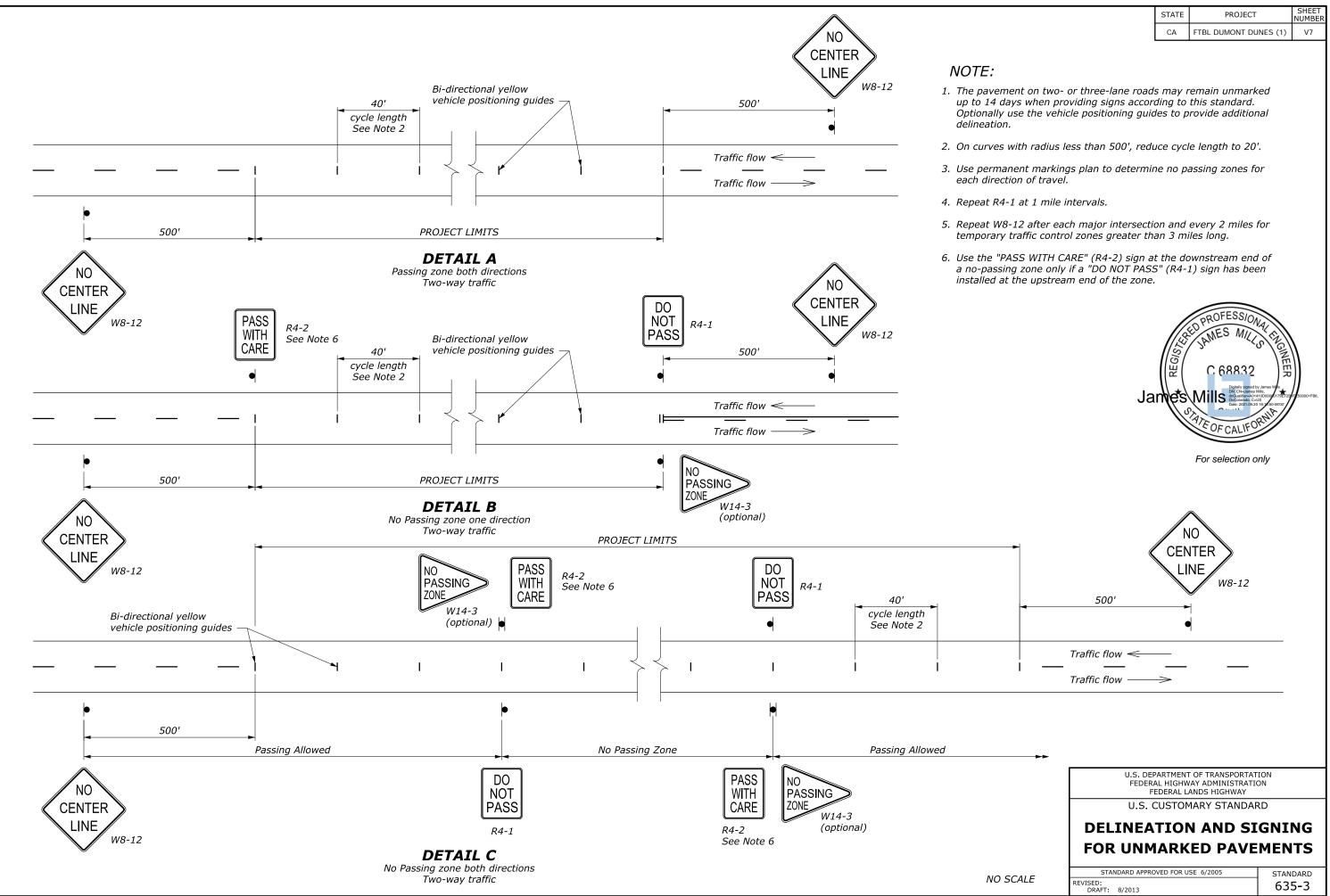


	NUMBER
CA FTBL DUMONT DUNES (1)	V6

NOTE:

- 1. Dimensions not labeled are in inches.
- 2. Marker patterns based on NDOT Standard Plan. T-37.1.1(633), adopted 2/79 revised 5/09.

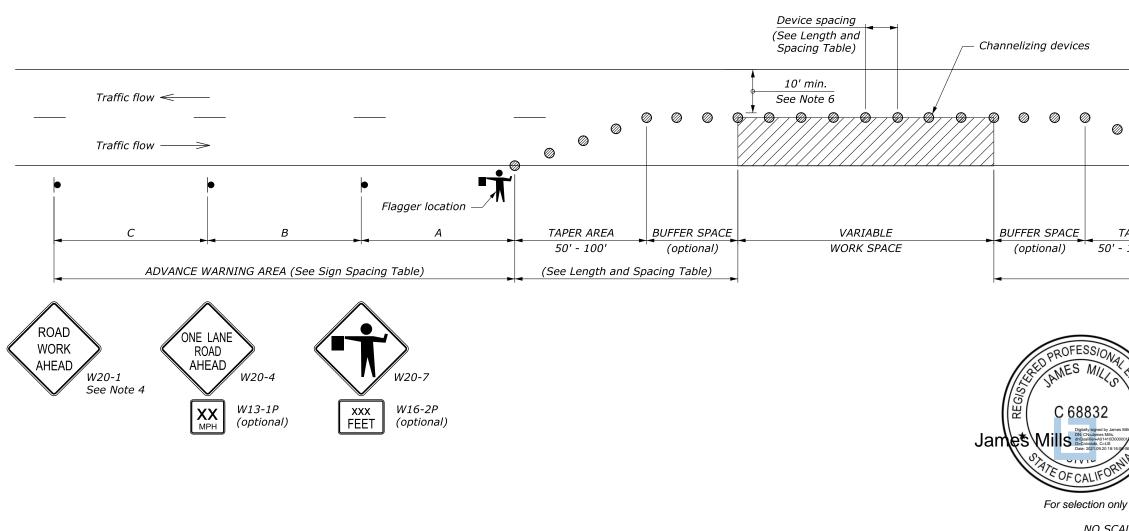
A LE CON	U.S. DEPARTMENT OF TRANSPORTATI FEDERAL HIGHWAY ADMINISTRATIO CENTRAL FEDERAL LANDS HIGHWAY DIV	N
ER	U.S. CUSTOMARY SPECIA	L
James Ma la, 000000179572517500001FB8, 8 x2 x5 - 0000	PERMANENT RAISI PAVEMENT MARKE	
		SPECIAL
NO SCALE		634-A



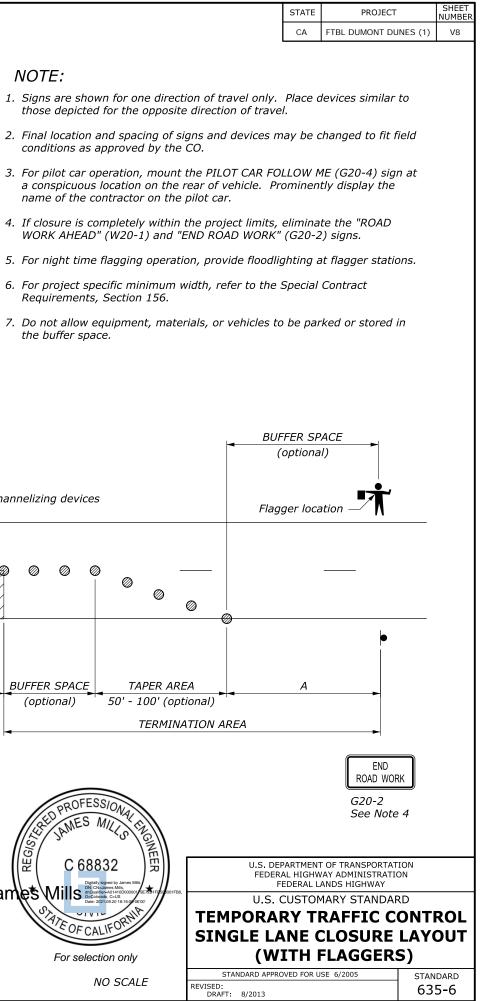
LENGTH AND SPACING TABLE							
APPROACH	BUFFER SPACE	CHANI	VELIZING D	EVICE			
SPEED*	LENGTH	TAPER	BUFFER	WORK			
МРН	FEET	AREA	SPACE	SPACE			
		SPA	SPACING IN FEET				
20	115	20	40	40			
25	155	20	50	50			
30	200	20	60	60			
35	250	20	70	70			
40	305	20	80	80			
45	360	20	90	90			
50	425	20	100	100			
55	495	20	110	110			
60	570	20	120	120			
65	645	20	130	130			
70	730	20	140	140			

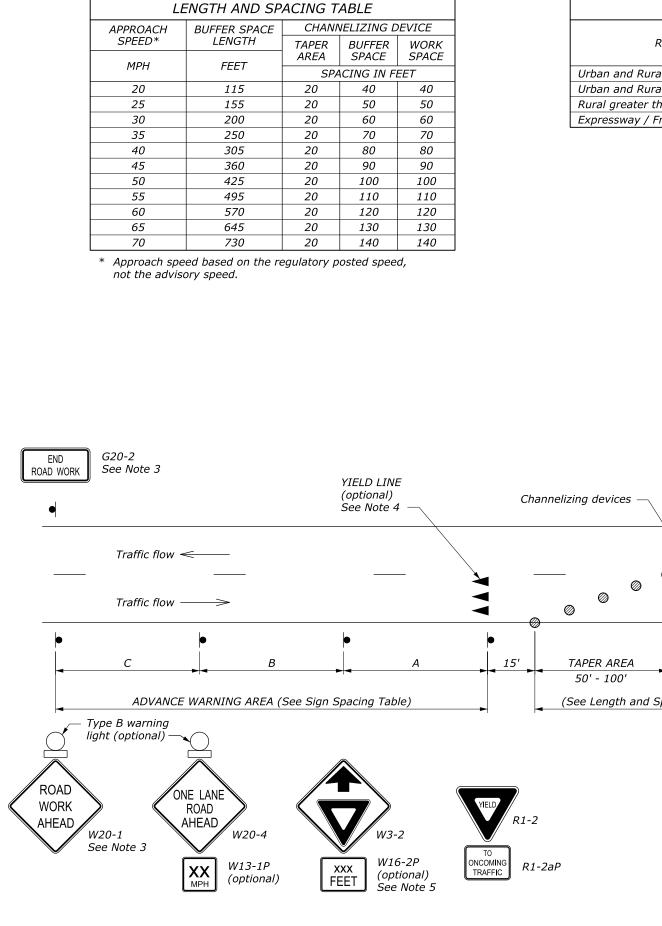
SIGN SPACING TABLE						
ROAD TYPE	DISTANCE BETWEEN SIGNS IN FEET					
	A	В	С			
Urban and Rural 30 MPH and less	100	100	100			
Urban and Rural 35 MPH to 50 MPH	350	350	350			
Rural greater than 50 MPH	500	500	500			
Expressway / Freeway	1000	1500	2640			

- Requirements, Section 156.
- the buffer space.



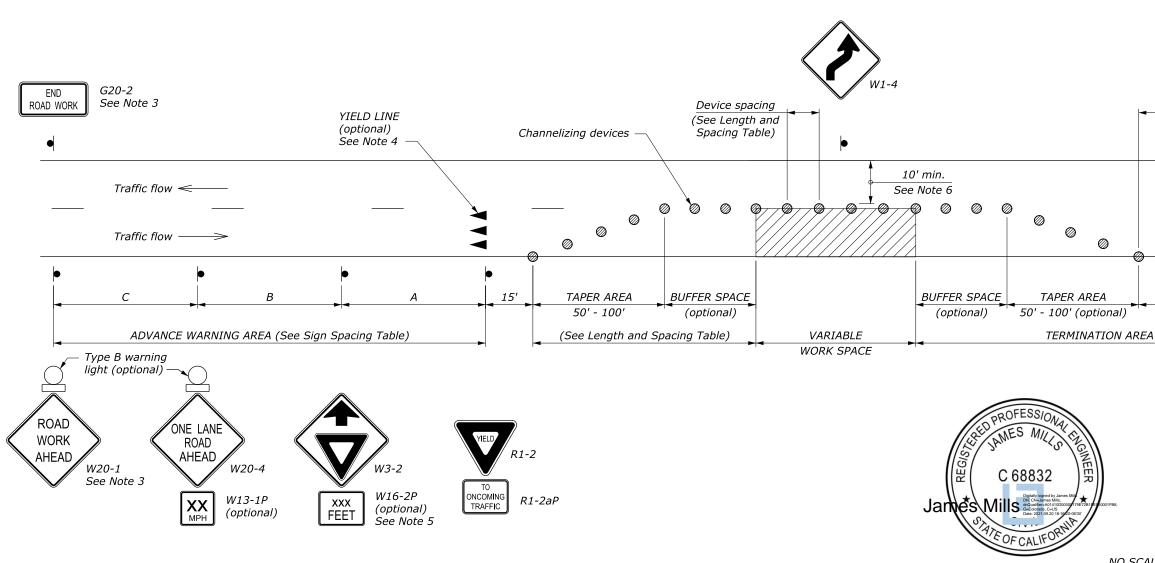
* Approach speed based on the regulatory posted speed, not the advisory speed.



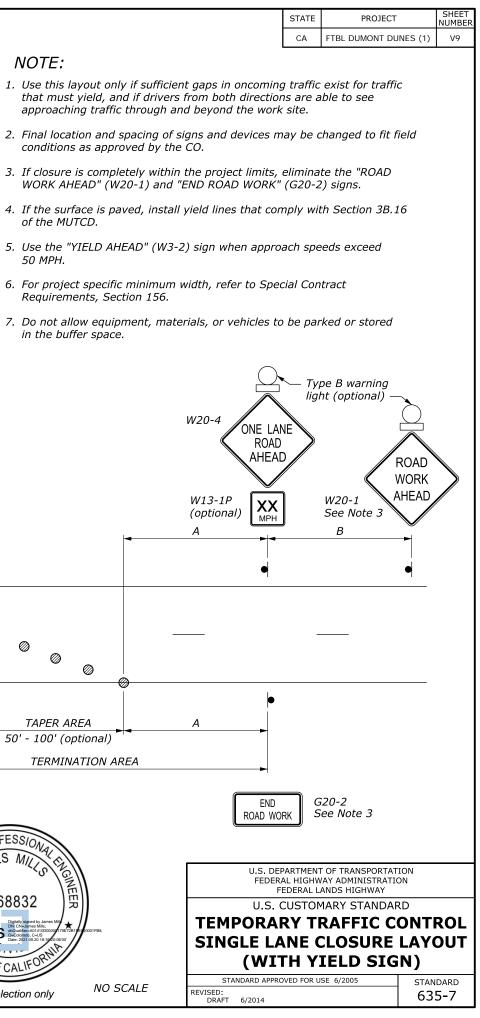


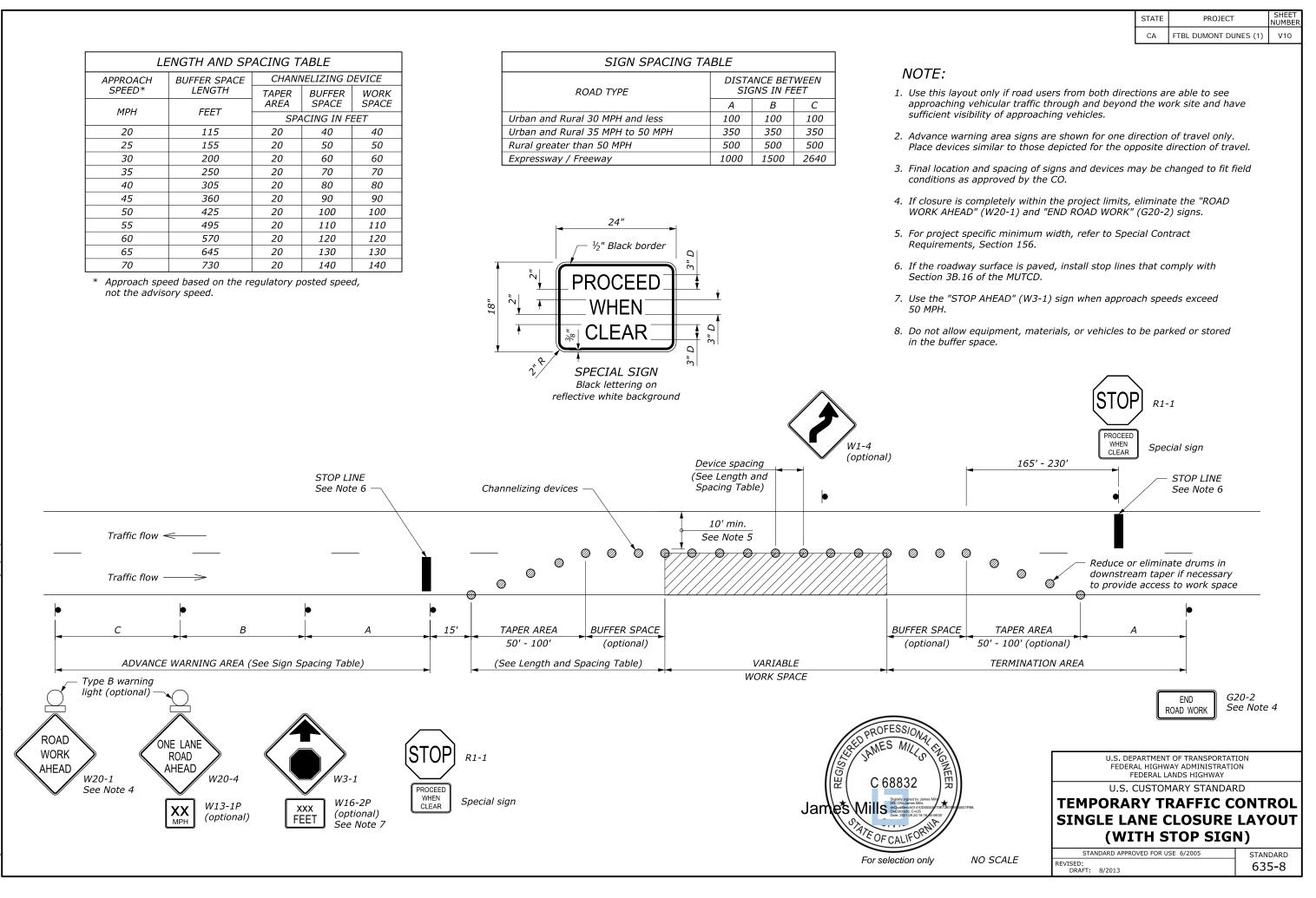
SIGN SPACING TABLE						
ROAD TYPE	DISTANCE BETWEEN SIGNS IN FEET					
	A	В	С			
Urban and Rural 30 MPH and less	100	100	100			
Urban and Rural 35 MPH to 50 MPH	350	350	350			
Rural greater than 50 MPH	500	500	500			
Expressway / Freeway	ay / Freeway 1000 1500 26					

- of the MUTCD.
- 50 MPH.
- Requirements, Section 156.
- in the buffer space.



For selection only

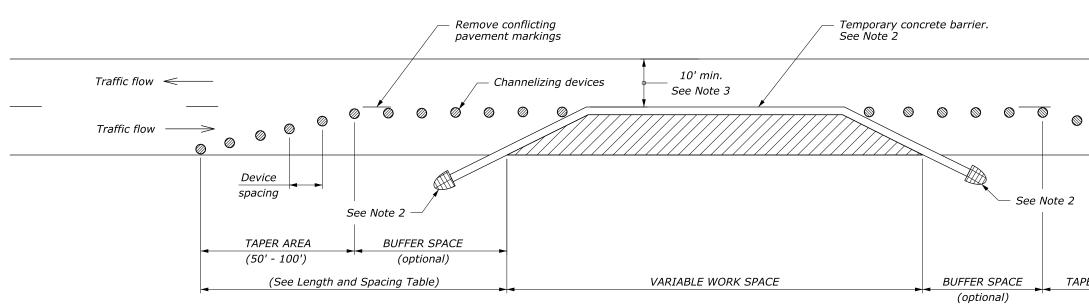




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	LENGTH AND SPACING TABLE							
APPROACH	BUFFER SPACE	CHANI	VELIZING D	DEVICE	CONCRETE	WORK ZONE		
SPEED*	LENGTH	TAPER AREA	BUFFER SPACE	WORK SPACE	BARRIER FLARE	CLEAR ZONE WIDTH		
MPH	FEET	SPA	CING IN F	EET	RATE	FEET		
20	115	20	40	40	1:8	10		
25	155	20	50	50	1:8	10		
30	200	20	60	60	1:8	10		
35	250	20	70	70	1:9	10		
40	305	20	80	80	1:10	15		
45	360	20	90	90	1:12	20		
50	425	20	100	100	1:14	20		
55	495	20	110	110	1:16	20		
60	570	20	120	120	1:16	30		
65	645	20	130	130	1:16	30		
70	730	20	140	140	1:16	30		

* Approach speed based on the regulatory posted speed, not the advisory speed.

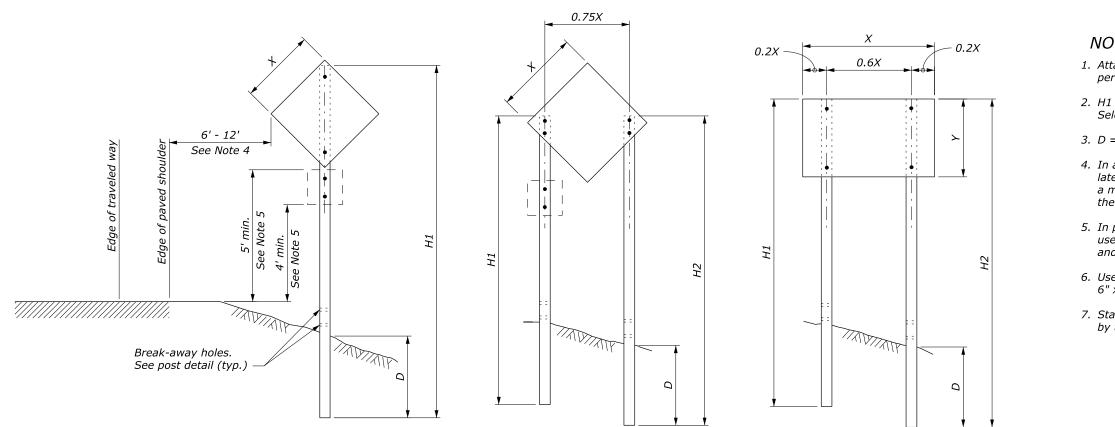




NOTE:

- Install signs and Standard 635-6, devices may be c
- 2. Place barrier acc barrier ends outs with a crash cusl
- 3. For project specil Section 156.
- 4. Place channelizin when access is n
- 5. Do not allow equ the buffer space.
- 6. Reduce or elimin to provide access

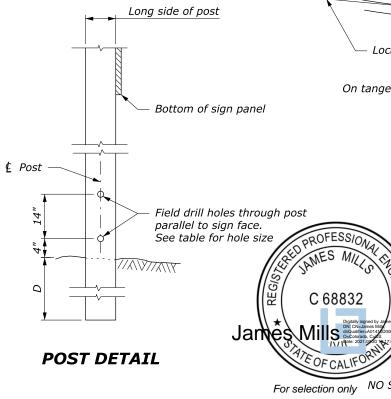
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		CA	FTBL DUMONT DU	NES (1)	NUMBER V11
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7, 8, or 9. Fil	nal location and sp	acing o	f signs and		
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SINGLE POST SIGN

TWO POST SIGN

WOOD POST SELECTION TABLE								
WIDTH "X"	AREA (SQFT)	NUMBER OF POSTS	POST SIZE (INCH)	D (INCH)	HOLE SIZE (INCH)			
Diamond ≤ 36"	< 10	1	4 x 4	36	0			
Other Shapes $\leq 48''$		1	4 x 6	48	1.5			
Diamond ≤ 48"	10 - 20	1	6 x 6	48	2			
Diamond ≤ 48"	10 - 20	2	4 x 4	36	0			
Other Shapes $\leq 12'$	20 - 50	2	4 x 6	48	1.5			
> 13'	50 - 65	2	6 x 6	48	2			
12' - 16'	50 - 65	3	4 x 6	48	1.5			
> 17'	65 - 95	4	4 x 6	48	1.5			
> 30'	65 - 95	3	6 x 6	48	2			



STATE PHOREU NUMBER CA FTBL DUMONT DURUES (1) V12 CPE: tack high panels with a minimum of 2 - ¼" dia. bolts and H2 = Overall post length. elect post lengths to fit field conditions. = Post embedment depth for average soil conditions. and H2 = Overall post length. areas where lateral distance is limited, a minimum teral distance of 1' behind the face of e curb may be used. In areas with obstructed views, siminum mounting height for main sign of 6' minimum mounting height for secondary sign. apdestrina locations, or in areas with obstructed views, see 7' minimum spacing between posts for sign posts 'x 6' or larger. be view of larger. be used as an alternative if approved view of the CO. Post tangent may be used as an alternative if approved view of the CO. Department of transportation page transport of the CO. Department of transport of the CO. U.S. DEPARTMENT of transport of transport of transport of transport of the CO. Department of transport of transport of transport of tra					CUEFT
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