INDEX OF SHEETS									
SHEET NO.	DESCRIPTION								
A01	Title Sheet								
A02 Index Of Sheets Cont'd. & Std. Dwg. Nos.									

DESCHUTES COUNTY ROAD DEPARTMENT

PLANS FOR PROPOSED PROJECT Grading, Drainage, Paving & Signing

NE NEGUS WAY & NE 17TH ST. IMPROVEMENT PROJECT

DESCHUTES COUNTY March 2021





INDEX OF SHEETS, CONT.						
RC	DADWAY DETAILS					
SHEET NO.	DESCRIPTION					
BA01 thru BA03	Typical Sections					
BB01 thru BB04	Details					
ROAD	WAY CONSTRUCTION					
C01 thru C14	General Construction					
TI	RAFFIC CONTROL					
EA01 thru EA03	Traffic Control Details					
EB01	Traffic Staging Plan					
SIGNS & PERM	ANENT PAVEMENT MARKINGS					
LA01	Signing & Striping Legend					
LB01 thru LB05	Signing & Striping Plan					
LC01	Sign Details					
LD01 thru LD03	Sign & Post Data Table					

			SURV	EY CONTROL TABLE
PT. #	NORTHING	EASTING	ELEV.	DESCRIPTION
3	470669.5	3332482.28	2995.86	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
4	470673.2	3333153.65	2997.53	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
5	470907.73	3333455.58	2999.94	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
6	470857.91	3333923.85	3005.21	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
7	470947.39	3334508.93	3010.51	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
8	472072.21	3333920.1	2997.95	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
9	471985.17	3334618.31	3003.45	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
10	472019.67	3335223.32	3001.84	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
11	472924.62	3335494.64	2983.33	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
12	473666.27	3335736.37	3003.41	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
13	474119.78	3335837.32	2986	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
14	474940.08	3335712.7	2986.07	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
15	475388.99	3335380.87	2990.19	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
16	475928.86	3335330.28	2982.49	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
17	476262.14	3335248.75	2988.26	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
18	476640.41	3335299.61	2986.26	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
19	477135.58	3335268.99	2971.44	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
20	477951.4	3335287.74	2962.96	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
21	478598.95	3335164.34	2947.25	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
22	479108.08	3335276.93	2950.76	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
23	479955.03	3335404.67	2946.6	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
24	480612.45	3335348.65	2950.08	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
25	481298.35	3335292.12	2947.66	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
26	481273.96	3334991.54	2946.75	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"
27	481283.98	3335651.09	2951.29	5/8" X 24" REBAR WITH ORANGE PLASTIC CAP "HWA CONTROL"

Standard Drg. Nos.	
RD100	-Mailbox Support
RD101	-Mailbox Installation
RD300	-Trench Backfill, Bedding, Pipe Zone and Multiple Installations
RD316	-Sloped Ends for Metal Pipe
RD380	-Fill Height Tables for Aluminum & Steel Corrugated Pipe
RD615	-Asphalt Concrete Pavement (ACP) Details
RD715	-Approaches and Non-Sidewalk Driveways
RD810	-Barbed and Woven Wire Fences
RD820	-Fence Gates
RD1005	-Check Dams Type 1, 3 and 4
RD1030	-Sediment Barrier Type 2, 3 and 4
TM200	-Sign Installation Details
TM201	-Miscellaneous Sign Placement Details
TM223	-Conventional Roads Directional Sign Layout Street Name Signs
TM500	-Pavement Marking Standard Detail Blocks
TM530	-Intersection Pavement Markings (Crosswalk, Stop Bar, Bike Lane Stencil)
TM560	-Alignment Layout: General
TM561	-Alignment Layout: Left Turn Lane, Centerline & Medians
TM671	-3-Second Gust Wind Speed Map
TM676	-Sign Attachments
TM681	-Perforated Steel Square Tube (PSST) Sign Support Installation
TM688	-Perforated Steel Square Tube (PSST) Slip Base Foundation
TM689	-Temporary PSST Vane Anchor Installation
TM800	-Tables, Abrupt Edge and PCMS Details
TM810	-Temporary Pavement Markings
TM820	-Temporary Barricades
TM821	-Temporary Sign Supports
TM822	-Temporary Sign Supports
TM840	-Closure Details
TM841	-Intersection Work Zone Details
TM850	-2-Lane, 2-Way Roadways



Standard Drawings located on the web at: http://www.oregon.gov/ODOT/HWY/ENGSERVICES/pages/standard drawings home.aspx

ABBREVIATIONS

ACP	Asphalt concrete pavement
Approx.	Approximate
Conc.	Concrete
Conn.	Connection
Const.	Construct
CPPR	Cold plane pavement removal
CY	Cubic yards
Dia.	Diameter
Dwg.	Drawing
Dwy.	Driveway
È	Exposure (curb)
El.	Elevation
Emb.	Embankment fill
Ease	Easement
Exc.	Excavation
Exta.	Existing
FDC	Full Depth Construction
FDR	Full Depth Reclaimation
FI	Flow line
Horiz	Horizontal
Inst	Install
I F	l inear feet
Li lt / Rt	Left / Right
Max	Maximum
Min	Maximum
No / Nos	Number(s)
Nom	Nominal
	Outside diameter
PC	Point from tangent to circular curve
10	Tomit nom tangent to circular curve
PCC	Portland Cement Concrete
PCC Porf	Portland Cement Concrete
PCC Perf. Perp	Portland Cement Concrete Perforated Pernendicular
PCC Perf. Perp. POC	Portland Cement Concrete Perforated Perpendicular Point on borizontal curve
PCC Perf. Perp. POC POT	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent
PCC Perf. Perp. POC POT Prop	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed
PCC Perf. Perp. POC POT Prop. PSST	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Parforated Steel Square Tube
PCC Perf. Perp. POC POT Prop. PSST Pumt	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Pof	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Paferanca
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. P./W	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Piabt of Way
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. Scf.	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Schulder
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Sch	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Sscc	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Sht. SSC St2	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Station
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Shldr. Sht. SSC Sta. Std	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Stainless steel clamp Station
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Shldr. SSC Sta. Std. TCD	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Stainless steel clamp Station Standard Traffic Control Devices
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Shldr. Sht. SSC Sta. Sta. Std. TCD TCM	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Stainless steel clamp Station Standard Traffic Control Devices Traffic Control Measures
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Shldr. Sht. SSC Sta. Std. TCD TCM TCP	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Stainless steel clamp Station Standard Traffic Control Devices Traffic Control Measures
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Shldr. SSC Sta. Std. TCD TCM TCP TCM	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Stainless steel clamp Station Standard Traffic Control Devices Traffic Control Deva
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Shldr. SF Shldr. SSC Sta. Std. TCD TCM TCP Thkn. TSS	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Stainless steel clamp Station Standard Traffic Control Devices Traffic Control Devices Traffic Control Pian Thickness
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Shldr. SF Shldr. SSC Sta. Std. TCD TCM TCP Thkn. TSS	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Stainless steel clamp Station Standard Traffic Control Devices Traffic Control Devices Traffic Control Measures Traffic Control Plan Thickness Temporary sign support
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Shldr. SF Shldr. SSC Sta. Std. TCD TCM TCP Thkn. TSS Typ. Var	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Stainless steel clamp Station Standard Traffic Control Devices Traffic Control Devices Traffic Control Plan Thickness Temporary sign support Typical
PCC Perf. Perp. POC POT Prop. PSST Pvmt. Ref. R/W SI. Sch. SF Shldr. Skl. Sch. SF Shldr. SF Shldr. Sta. Sta. Std. TCD TCM TCP Thkn. TSS Typ. Var.	Portland Cement Concrete Perforated Perpendicular Point on horizontal curve Point on tangent Proposed Perforated Steel Square Tube Pavement Reference Right of Way Slope Schedule Square feet Shoulder Sheet Stainless steel clamp Station Standard Traffic Control Devices Traffic Control Devices Traffic Control Plan Thickness Temporary sign support Typical Varties

ROAD DEPARTMENT

NE NEGUS WAY & NE 17TH ST. IMPROVEMENT PROJECT

SHEET NO. A02











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(4) Maintain & protect extg. culv.

The construction, adjustment, maintenance, and upgrading of these erosion control measures is the responsibility of the contractor for the duration of the project.

Erosion control measures shown on this plan are for anticipated site conditions. Adjust or upgrade these measures for unexpected storm events to ensure that sediment and sediment-laden water does not leave the site.

Develop a revised plan of the erosion control measures shown as required by section 00280, Oregon Standard Specifications for Construction. Implement this plan for all clearing and grading activities and in segments applicable to each staging phase. Construct in such a manner so as to ensure that sediment and sediment-laden water does not enter the roadway or drainage system, or violate applicable water standards.

Install measures within the right of way unless directed otherwise.

Install stabilized construction entrances at the beginning of construction and maintain for the duration of the project. Additional measures may be required to insure that all paved areas are

Construct sediment fence 1.5 meters (5 Feet) downslope from the toe of fill slopes where sediment-laden water has a potential of entering waterways or leaving the R/W.

Protect all inlets during surface grinding, paving, and earthwork operations to prevent pollutants

) 1 C T	10		
DROFESSION NEESO	DAVID EVANS AD ASSOCIATES INC. 530 Center Street N.E., Suite 605 Salem Oregon 97301 Phone: 503.361.8635	ROA DEP	ND ARTMENT
D2PE * F 2021.04.20 15:40:42-07'00' GON ~ T	NE NEGUS WAY IMPROVEME	(& NE 17TH ST. Ent project	
10. NU	Designer: Tai Imamura	Reviewer: Shon Heern	
IMA	Drafter: Ryan Berger	Checker: Terry Wheeler	
6-30-2021	GENERAL CONSTR	UCTION	SHEET NO.
	R	otation: 0^ Scale	: Full Size 1=1

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① See sht. C02, note 2 Remove extg. fence Const. Type 2 fence
2 Relocate extg. utility poles (By others) Maintain & protect relocated utility poles (For details, see sht. BB03)
3 Remove extg. bollards
(4) Remove extg. mailbox support
5 Const. street conn.
6 Const. Type A-1 appr.
7 Inst. multiple mailbox support Const. conc. collar
8 Maintain & protect extg. wood landscape fence
9 Remove extg. tree

() Const. Type A-1 appr.
2 Maintain & protect extg. fence
3 Sta. "A" 156+20.0 to Sta. "A" 167+25.0 Lt. Remove extg. fence Const. Type 1 fence
(4) Maintain & protect extg. utility poles (For details, see sht. BB03)
5 Relocate extg. utility pole (By others) Contractor to perform earthwork prior to pole relocation Maintain & protect relocated utility poles (For details, see sht. BB03)
e GENERAL EROSION CONTROL NOTES on CO1.

SEC. 2, T. 15S, R. 13E, W.M.

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Maintain & protect relocated comm. risers

(16) Sta. "A" 193+89.0 to Sta. "A" 197+38.9, Lt.

100

	0		
ROFESSON	DAVID EVANS AD ASSOCIATES INC. 530 Center Street N.E., Suite 605 Salem Oregon 97301 Phone: 503.361.8635	ROA DEP/	D ARTMENT
2PE 2021.04.20 16:02:24-07'00' SON	NE NEGUS WAY IMPROVEME	V & NE 17TH ST. Ent project	
NN NN	Designer: Tai Imamura	Reviewer: Shon Heern	
MAY	Drafter: Ryan Berger	Checker: Terry Wheeler	
-30-2021	GENERAL CONSTR	UCTION	SHEET NO. C10

(17)	Maintain & protect extg. comm. riser
(18)	Const. 3' Apron A-1 approach (For details, See sht. BB03)
(19)	Inst. 12" ductile iron culv. pipe – 70 LF 5' depth
\sim	

(20) Const. rip rap basin - 4 (For details, See sht. BB03)

See GENERAL EROSION CONTROL NOTES on CO1.

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	() See sht. C10, note Remove extg. fenc Const. Type 1 fenc	e 18 e ce	
	2 See sht. C10, noto Remove extg. fenc Const. Type 2 fenc	e 14 e ce	
	3 Remove extg. tree	s	
	- (4) Remove extg. mail	box support	
	5 Const. street conn	. – 2	
	6 Const. Type A-1 a	ppr. – 2	
	(7) Inst. 12" CMP culv. 5' depth	pipe – 34 LF	
	8 Maintain and prote	ect extg. culvert	
	(9) Remove extg. culv Inst. 12" ductile ind 5' depth	on culv. pipe – 78 LF	
	(10) Sta. "A" 197+96.1 Remove extg. fenc Const. Type 1 fenc	to Sta. "A" 203+53.4, Lt. e ce	
	1) Sta. "A" 201+77.2 Remove extg. fenc Const. Type 1 fenc	to Sta. "A" 203+45.1, Rt. e ce	
	(12) Sta. "A" 203+79.3 Remove extg. fenc Const. Type 1 fenc	to Sta. "A" 204+12.6, Rt. e :e	
	(13) Sta. "A" 203+96.2 Remove extg. fenc Const. Type 1 fenc	to Sta. "A" 208+55.6, Lt. e :e	
	14 Inst. single mailbo	x support	
	(15) Maintain & protect (For details, see sh	extg. utility poles nt. BB03)	
	(16) Relocate extg. con (By others) Maintain & protect	nm. riser relocated comm. risers	
	17) Inst. sediment bar	rier (type 3)	
	18 Inst. check dam (t) (See drg. no. RD10	/pe 3) – 2 005 for details)	
	19 Maintain and prote	ect extg. manhole	
0 10 EET	⁰ See GENERAL	EROSION CONTROL NOTES	on CO1.
PROFESSOR	BAVID EVALUATION AND ASSOCIA	VANS ATES INC. E. Suite 605 97301 11.8635	AD PARTMENT
702PE 7 2021.04.20 ED 2021.04.20 16:07:23-07'00' REGON	NE NE IMF	GUS WAY & NE 17TH ST. PROVEMENT PROJECT	
IMANU'	Designer: Tai Imamura	Reviewer: Shon Heern	
06-30-2021	Drafter: Ryan Berger GENERAL	Checker: Terry Wheeler	SHEET NO.
·			

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Rotation: 0^ Scale: Full Size 1=1

GENERAL CONSTRUCTION

C13

To be accompanied by:

ТМ671, ТМ676, ТМ681, ТМ689, ТМ800, ТМ810, TM820, TM821, TM822, TM840, TM841 & TM850

P:\D\DESX00000117\0400CAD\TT\SHEETS\TT_DESX0117_TC1.dwg 4/15/2021 5:29 PM Corey Spielman

RENEWS: 06-30-2021

16:41:50-07'00'

TRAFFIC STAGING PLAN

Sta. 112+00 to Sta. 230+00 - Shoulder widening and earthwork outside of extg. roadway Sta. 178+00 (Upas Ave) to 230+00 (Oneil Hwy) - FDR and Base Paving (except for sections noted below) Sta. 187+91 to Sta. 189+71 - Bridge approach - full depth const. and base paving sta. 187+91 to Sta. 189+75 - No Work Area - Sta. 189+15 to Sta. 191+30 - Bridge approach - full depth const. and base paving - Sta. 195+95 to Sta. 202+11 - Grade revision - full depth const. and base paving (See sht. EA01) NE 17th St./NE Negus Way. - closed from NE Maple/Negus Way intersection to Oneil Hwy. Position flaggers at ends of road closure/work zone to direct local traffic thru work zone Maintain access for local traffic, school busses, postal service, service providers and emergency services at all times Sta. 112+62 to Sta. 116+66 - Maple Ave./Negus Way Intersection (outside of roadway) - Full depth const. NE 17th St./NE Negus Way - closed from NE Maple/Negus Way intersection to Varnish Ave. Position flaggers at ends of road closure/work zone to direct local traffic thru work zone Maintain access for local traffic, school busses, postal service, service providers and emergency services at all times Sta. 112+62 to Sta. 116+66 - Maple Ave./Negus Way intersection - Complete full-depth const., remove extg. roadway Maintain access for local traffic, school busses, postal service, service providers and emergency services at all times Sta. 110+00 to Sta. 230+00 - Wearing course paving, shoulder rock, permanent signing, permanent striping, other incidental work 2. For standard sign spacings, see "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on dwg. no. TM800. 1200 1200 600 0 FEET DAVID EVANS ЭĬС ROAD PRO ND ASSOCIATES INC 1.1.1 30 Center Street N.E., Suite 605 DEPARTMENT Salem Oregon 97301 Phone: 503.361.8635 GINER 91702PE 2021.04.20

NE NEGUS WAY & NE 17TH ST. **IMPROVEMENT PROJECT**

IMAMURY/ esigner: Tai Imamura Reviewer: Shon Heerr rafter: Ryan Berger Checker: Terry Wheeler

TRAFFIC STAGING PLAN

EB01

SHEET NO.

STRIPING LEGEND

Inst. 12" white stop bar

STRIPING NOTES:

- 1. Match point to extg. striping and station call-outs are approx. and shall be field verified. Exact locations are to be determined in the field.
- 2. All pavement legends and bars shall Thermoplastic, type AB. See Section 00865.00 of the Oregon Standard Specifications for Construction.
- *3. Maintain and protect all extg. striping except as otherwise* shown in plans. Removal of extg. pavement markings shown is approx. and shall be field verified.

SIGNING LEGEND

M = Material Material options:

W = Wood Post

ST = Perforated Steel Square Tube Sign Support

ACCOMPANIED BY DWGS .: TM200, TM500, TM560, TM561, TM570, ТМ671, ТМ676, ТМ681 & ТМ688

SIGNING & STRIPING LEGEND

SIGNING NOTES:

- 1. Signs shall conform to the requirements of the current version of the Manual of Uniform Traffic Control Devices (MUTCD) and the ODOT Sign Policy Guidelines, current edition.
- 2. New signs shall be constructed of sheet aluminum substrate per Section 02910.10 of the Oregon Standard Specifications for Construction, 2021 edition.
- 3. New sign sheeting and legend materials shall conform to Sections 02910.20, 02910.33 and 02910.60 of the Oregon Standard Specifications for Construction.
- 4. Extg. signs not shown are to remain in place unless otherwise directed by the Engineer of Record.
- 5. The locations of sign installations shown are approx. with exact locations to be determined in the field.

															SIGN	& P(OST	DAT	ΓA Τ	ABLE								
N SIGN LOCATION			SUB-		COL	OR <u>1</u> /			SIGN						ΤY	PE OF S	SUPPOR	۲۲						POST		FOO	TING	REMARKS
4_/ (TM200-TM201, TM635)			STRATE		ROUND	LEGE ≥ ≝	END		' NO. - 2_/	TM676) F (TM671, -TM689)	EAKAWAY	.КАWAY -М601)	MP (SSC)		MOUNT	TERFLY	506- M620)			SURE 40)	OUNTS CTURES	SECON (TM67)	NDARY SIGN 6 & TM678)	SIZE	LENGTH	LOCATION	MIN. DEPTH 5_/	
	WIDTH	HEIGHT	PLYWOOD SHEET ALUMINUM EXTRIDED ALLIM (T	ASTM TYPE III OR TY	ASTM TYPE IX	ASTM TYPE III OR TY ASTM TYPE IX	NON-REFLECTIVE	PERMANENT REMOVABLE	(CCZIMII - 0CZIMII)	WOOD POST (TM670-TM671, SQ. TUBE SIGN SUPPOR TM676, TM681, TM687	TRIANGULAR BASE BR (TM602)	H – FRAME MULTI–POST BREA (TM220, TM600–T	STAINLESS STEEL CLA (TM677)	SIGNAL POLE MOU (TM680)	MAST AKIM SIGN F (TM679) BRIDGE STRUCTURE	(TM677) CANTILEVER / BUT (TM622-TM627)	SIGN BRIDGE (TM TM612, TM614-T	TM220, TM225)	(TM678)	MILEFUST MARKE (TM221-TM222) CROSSWALK CLOS BARRICADE (TM24	VERTICAL SIGN M ON EXISTING STRU	CUSTOM VARIABLE S C 4X5.4 C 4X7.25	LENGTH	(BASED ON ESTIMATED LENGT	(MUST BE FIELD VERIFIED)			
"A" 111+60.0, Rt.	36"	36"	~	Y			Bk	v	1	 ✓ 														2 ½" – 12 ga	14'-0"	11.0'	3'-0"	(Slip base)
*	18"	18"	✓	Y			Bk	✓	1 <i>a</i>																			Mount below Sign No. 1
"A" 112+04.0, Lt.	36"	36"	v	Y			Bk	v	2	✓														2 ½" – 10 ga	15'-0"	9.5'	3'-0"	(Slip base)
*	18"	18"	~	Y			Bk	1	2a																			Mount below Sign No. 2
"H" 20+37.0, Lt.	36"	36"	✓	R		W		v	3	✓						_								(2) 2 ½" – 12 ga	15'-6"	16.0'	3'-0"	(Slip base)
"F" 20+34.0, Lt.	36"	36"	✓	R		W		✓		 ✓ 		_												(2) 2 ½" – 12 ga	14'-6"	20.5'	3'-0"	(Slip base)
"A" 183+95.0, Rt.	36"	36"	✓	R		W		✓		 ✓ 		_												2 ½" – 12 ga	13'-6"	9.0'	3'-0"	(Slip base)
"D" 20+27.5, Lt.	36"	36"	✓	R		W		 ✓ 		✓		_												2 ½" – 10 ga	14'-0"	8.0'	3'-0"	(Slip base)
"A" 192+12.0, Rt.	36"	36"	✓	R		W		✓		✓		_												2 ½" – 10 ga	14'-6"	11.0'	3'-0"	(Slip base)
"A" 203+51.0, Lt.	36"	36"	✓	R		W		✓		✓		_												2 ½" – 12 ga	13'-6"	18.0'	3'-0"	(Slip base)
"A" 203+90.0, Rt.	36"	36"	✓	R		W		 ✓ 		✓		_				_								$\frac{2 \frac{1}{2}" - 10 \text{ ga}}{2 \frac{1}{2}" - 10 \text{ ga}}$	14'-0"	11.5'	3'-0"	(Slip base)
"A" 229+72.0, Rt.	(36)	(36)								✓														2 ½" – 10 ga	14'-6"	9.0'	3'-0"	(Slip base)
"H" 20+37.0. Lt.	4'-0"	1'-3"	v	G	5	5W		1	4							_												Mount above Sign Nos. 5 & 6. perpendicular
"H" 20+37.0. Lt.	4'-0"	1'-3"	<u> </u>	G	5	5W		<u> </u>				-																Mount above Sign Nos. 5 & 6. perpendicular
"H" 20+37.0, Lt.	5'-6"	2'-3"	✓	G	5	5W		√	5																			Mount above Sign No. 3, facing same direction
"H" 20+37.0, Lt.	5'-6"	2'-3"	✓	G	S	SW		√	6																			Mount above Sign No. 3, facing opposite direction
																								2 1/ 11 - 22		12.01	24.2%	
"A" 119+54.0, Lt.	36"	36"	✓	Y			BK	√	/	✓		_												2 ½" – 12 ga	14'-6"	13.0	3'-0"	(Slip base)
^	18	18	√	Ŷ			BK	√	/a			_																Mount below Sign No. 7
"A" 120 / 10 0 Bt	20"	20"		V			D/r	,	0			_									+			21/11 12	121 6"	12 51	21.0"	(Clip hogo)
A 120+10.0, Kt.	30	30	× ×	r			BK DL		0 0 0 0 0	×						_	+ +				+	+		2 72 – 12 ga	13-0	12.5	5-0	(Silp Dase) Mount balow Sign No. 9
	10	10	v	r			DK	v	Od																			
"A" 130+88.0. Rt.	36"	36"	v	Y			Bk	v	9	1		-												2 ½" – 12 aa	14'-0"	12.5'	3'-0"	(Slip base)
1 *	18"	18"	✓	Y			Bk	1	9a																			Mount below Sign No. 9
		2.6"	+++																						1 =1 = ="	12.01	21.0"	
$A^{*} 131 + 20.0, Lt.$	36"	36"		Y			BK	√	10								+ +				+			$(2) 2 \frac{1}{2} - 10 ga$	15'-6"	12.0	3'-0"	(SIIP Dase)
"a *	18"	18"		Y			BK	√	10a							_	+					+++						Mount below Sign No. 10

1/ BK=BLACK
 BL=BLUE
 BR=BROWN
 FY=FLUORESCENT YELLOW
 G=GREEN
 O=ORANGE
 R=RED
 RB=RED-BLUE
 SW=SILVER-WHITE
 W=WHITE
 Y=YELLOW

YG=YELLOW-GREEN

- 2_/ NOTE: L,C,R ARE LOCATIONS OF POSTS FACING THE SIGN. L=LEFT POST
 - C=CENTER POST R=RIGHT POST
- 3_/ DISTANCE FROM EDGE OF PAVEMENT, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM601, TM602 AND TM635.
- 4_/ NOTE: THE LOCATIONS SHOWN ARE APPROXIMATE EXCEPT FOR SPEED ZONES, SCHOOL ZONES, OBJECT MARKERS AND MILEPOST MARKERS. EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.
- 5_/ MINIMUM DEPTH OF FOOTING FOR TRIANGULAR BASE BREAKAWAY AND MULTI-POST BREAKAWAY INSTALLATIONS IS FOR A 2' DIAMETER FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM601 AND TM602.

SIGN LOCATION SIGN DIMENSIONS SUB- COLOR $\frac{1}{2}$									SIGN			_		TYPE (OF SUPPC	RT					POST		FOOT	ΓING	REMARKS
4_/ (TM200-TM201, TM635)		IENSIONS	STRAT	E BACKGROU	JND L ≥	LEGEND) L		NO. 2_/	M676) TM671, M689) .KAWAY	AWAY 1601)	Ļ	DUNT		06- 1620)	DUNT	AME	POST IRE UNTS UNTS	SEC (TM	CONDARY SIGN 1676 & TM678)	SIZE	LENGTH	LOCATION	MIN. DEPTH	
(660)	WIDTH	HEIGHT	PLYWOOD SHEET ALUMINUM	EXIRUDED ALUM. (IMC ASTM TYPE III OR TYPE ASTM TYDE IV	ASTM TYPE IX ASTM TYPE III OR TYPE	ASTM TYPE IX	NON-REFLECTIVE	PERMANENT REMOVABLE (TM230 – TM233)		WOOD POST (TM670-TM671, Tr SQ. TUBE SIGN SUPPORT (TM676, TM681, TM687-1 TRIANGULAR BASE BREA (TM602)	H – FRAME MULTI-POST BREAK (TM220, TM600-TN STAINI FSS STEFL (LAMI	(TM677) SIGNAL POLE MOUN (TM680)	MAST ARM SIGN MC (TM679)	BRIDGE STRUCTURE M (TM677) CANTHEVED / DITTE	TM622-TM627) SIGN BRIDGE (TM60 TM612 TM614-TM	EXIT NUMBER SIGN MC (TM220, TM225)	ROUTE MARKER FR/ (TM678)	MILEPOST MARKER (TM221-TM222) CROSSWALK CLOSU BARRICADE (TM240 VERTICAL SIGN MO ON EXISTING STRUCT	C 4X5.4	LENGTH	(BASED ON ESTIMATED LENGTH	(MUST BE FIELD VERIFIED)		<u>5</u> /	
"A" 145+00.0, Rt.	30"	36"	✓	W			Bk 🕔	√	11	✓											2 ½" & 2 ½" – 12 ga	11'-6"	12.0'	3'-0"	(Slip base)
"A" 185+78.0, Lt.	30"	36"	✓	W			Bk •	√		✓											2 ½ "& 2 ½" - 12 ga	12'-0"	14.5'	3'-0"	(Slip base)
"A" 185+81.0, Rt.	30"	36"	✓	W			Bk •	√		✓											2 ½ "& 2 ½" – 12 ga	11'-0"	11.5'	3'-0"	(Slip base)
"A" 227+73.0, Lt.	30"	36"	_ √	W			Bk 、	✓		✓											2 ½" & 2 ½" – 12 ga	11'-6"	13.0'	3'-0"	(Slip base)
"A" 155+15.0, Rt.	(12")	(18")							12	✓											2 ½" & 2 ½" – 12 ga	10'-6"	10.0'	3'-0"	(Slip base) Reinstall extg. sign on new post
"A" 164+20.0 Rt	36"	36"	- <u>/</u>	YG	R		Rk .	1	13												$2\frac{1}{2}$ $\frac{1}{2}$ $\frac{8}{2}\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2$	14'-6"	12.0'	3'-0"	(Slin hase)
"A" 178+39.8, Rt.	36"	36"	√	YG	R		Bk ·	√ ✓		✓ ✓											$2 \frac{1}{2} \frac{42}{2} \frac{1}{2} - 12 ga$	12'-6"	13.0'	3'-0"	(Slip base)
"F" 20+34.0, Lt.	3'-6"	1'-3"		G	SW	/		✓	14																Mount above Sign No. 3, perpendicular
"F" 20+34.0, Lt.	3'-6"	1'-3"	1	G	SN	/		√																	Mount above Sign No. 3, perpendicular
"F" 20+34.0, Lt.	5'-3"	2'-3"	~	G	SW	/		ا	15																Mount above Sign No. 14, facing 17th St.
"F" 20+34.0, Lt.	5'-3"	2'-3"	~	G	SW	/		✓	16																Mount above Sign No. 14, facing Upas Ave.
"A" 183+95.0. Rt.	3'-3"	1'-0"	v	G	SW	/		x	17																Mount above Sign No. 18. facing 17th St.
"A" 183+95.0, Rt.	3'-3"	1'-0"	v 1	G	SW	/		√ √																	Mount above Sign No. 18, facing Varnish Ave.
"D" 20+27.5, Lt.	3'-3"	1'-0"	~	G	SW	/		√																	Mount above Sign No. 19, facing 17th St.
"D" 20+27.5, Lt.	3'-3"	1'-0"	~	G	SW	/		√																	Mount above Sign No. 19, facing King Way
"A" 192+12.0, Rt.	3'-3"	1'-0"	~	G	SW	/		√																	Mount above Sign No. 20, facing 17th St.
"A" 192+12.0, Rt.	3'-3"	1'-0"	\checkmark	G	SW	/		√																	Mount above Sign No. 20, facing Walnut Dr.
"A" 203+51.0, Lt.	3'-3"	1'-0"	\checkmark	G	SW	/		√																	Mount above Sign No. 21, facing 17th St.
"A" 203+51.0, Lt.	3'-3"	1'-0"	\checkmark	G	SW	/		√																	Mount above Sign No. 21, facing Yucca Ave. (West)
"A" 203+90.0, Rt.	3'-3"	1'-0"	\checkmark	G	SW	/		√																	Mount above Sign No. 21, facing 17th St.
"A" 203+90.0, Rt.	3'-3"	1'-0"	\checkmark	G	SW	/		√																	Mount above Sign No. 21, facing Yucca Ave. (East)
"A" 229+83.0, Rt.	(3'-3")	(1'-0")																							Mount above Sign No. 26, facing Oneil Hwy. (East)
"A" 229+83.0, Rt.	(3'-3")	(1'-0")																							Mount above Sign No. 26, facing Oneil Hwy. (West)
"A" 183+95.0. Rt	4'-6"	1'-0"		G	รม		-+	<u>_</u>	18																Mount above Sign No. 3, perpendicular
"A" 183+95.0. Rt.	4'-6"	1'-0"	- -	G	SN		-+	$\frac{1}{\sqrt{2}}$																	Mount above Sign No. 3, perpendicular
								-																	
	(TM200-TM201, TM635) "A" 145+00.0, Rt. "A" 185+78.0, Lt. "A" 185+81.0, Rt. "A" 227+73.0, Lt. "A" 155+15.0, Rt. "A" 164+20.0, Rt. "F" 20+34.0, Lt. "F" 20+34.0, Lt. "F" 20+34.0, Lt. "F" 20+34.0, Lt. "F" 20+34.0, Lt. "F" 20+34.0, Lt. "A" 183+95.0, Rt. "A" 183+95.0, Rt. "A" 192+12.0, Rt. "A" 203+51.0, Lt. "A" 203+51.0, Lt. "A" 203+51.0, Lt. "A" 203+90.0, Rt. "A" 229+83.0, Rt. "A" 183+95.0, Rt. "A" 183+95.0, Rt. "A" 183+95.0, Rt. "A" 183+95.0, Rt.	(TM200-TM201, TM635) WIDTH "A" 145+00.0, Rt. 30" "A" 185+78.0, Lt. 30" "A" 185+78.0, Lt. 30" "A" 185+81.0, Rt. 30" "A" 155+15.0, Rt. (12") "A" 164+20.0, Rt. 36" "A" 178+39.8, Rt. 36" "F" 20+34.0, Lt. 3'-6" "F" 20+34.0, Lt. 3'-6" "F" 20+34.0, Lt. 5'-3" "TD" 20+27.5, Lt. 3'-3" "D" 20+27.5, Lt. 3'-3" "A" 192+12.0, Rt. 3'-3" "A" 203+51.0, Lt. 3'-3" "A" 203+51.0, Lt. 3'-3" "A" 203+90.0, Rt. 3'-3" "A" 203+90.0, Rt. 3'-3"	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	(TM200-TM201, TM635) WIDTH HEIGHT WINTH "A" 145+00.0, Rt. 30" 36" ✓ "A" 185+78.0, Lt. 30" 36" ✓ "A" 185+81.0, Rt. 30" 36" ✓ "A" 155+15.0, Rt. (12") (18") ✓ "A" 164+20.0, Rt. 36" ✓ ✓ "A" 164+20.0, Rt. 36" ✓ ✓ "A" 178+39.8, Rt. 36" ✓ ✓ "F" 20+34.0, Lt. 3'-6" 1'-3" ✓ "F" 20+34.0, Lt. 3'-6" 1'-3" ✓ "F" 20+34.0, Lt. 5'-3" 2'-3" ✓ "F" 20+34.0, Lt. 5'-3" 1'-0" ✓ "F" 20+34.0, Lt. 5'-3" 1'-0" ✓ "F" 20+34.0, Lt. 5'-3" 1'-0" ✓ "A" 183+95.0, Rt. 3'-3" 1'-0" ✓ "A" 183+95.0, Rt. 3'-3"	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c} (\text{TM200-TM201}, \\ \text{TM635}) \\ \text{WIDTH} \\ \text{HEIGHT} \\ \begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	(TM200-TM201, TM635) WIDTH HEICHT (S.S.W. MIDTH A AL 10 (S.S.W. MIDTH A AL 10 (S.S.W. MIDTH MIDTH MIDTH A AL 10	(TM200-TM201), TM635) wDTH HEIGHT (Comparing the second sec	TM0200-TM201, TM035) width width	TMM2001/TX001, TM635) Image: Signed and Si	TMM200-TM201, TM635) wDMTH HEICHT HEICH	TM200-TM201, TM635) Image: Standard St	TM200-TM201, TM635) Image: Second	TM200-TM201. TM3635) TM20-TM201. TM20-TM201. TM20-TM201. TM200-TM201. TM20-TM201. TM20-TM201. TM20-TM201. TM20. TM200-TM201. TM20-TM201. TM20-TM201. TM20. TM20. TM20. TM200-TM201. TM20-TM201. TM20. TM20. TM20. TM20. TM20. TM200-TM201. TM20. TM20.	TM200-TM201. TM TM <thtm< th=""> TM TM</thtm<>	TM200-TM201, TM633) MDTH HERCH Set 2 <	CHU200-TM2001, TM033D WOTH HELT NUMPH HELT NUMPH	CTM200-TM201, TM6539 WIDH HECKT August 1 August 1	CHARGON-MACH, THO-SHO, MACH, TAGE 300, MACH, MACH	CHURDON-TMOON WDTH HEGGS Solution <

1/ BK=BLACK
 BL=BLUE
 BR=BROWN
 FY=FLUORESCENT YELLOW
 G=GREEN
 O=ORANGE
 R=RED
 RB=RED-BLUE
 SW=SILVER-WHITE
 W=WHITE
 Y=YELLOW
 YG=YELLOW-GREEN

2_/ NOTE: L,C,R ARE LOCATIONS OF POSTS FACING THE SIGN. L=LEFT POST

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- 3_/ DISTANCE FROM EDGE OF PAVEMENT, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM601, TM602 AND TM635.
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															S	GN	& POS	T D	ATA	ТАВ	LE								
ЗN	SIGN LOCATION			SUB-		COLO)r <u>1</u> /			SIGN						ТҮР	e of Sup	PORT							POST		FOO	TING	REMARKS
).	<u>4</u> /			STRATE	BACKGF	ROUND	LEGEN	1D			(6) 9)	AY	7	ΰ	F	Ļ	7	<u> </u>		H	S S	SEC (TM	ONDARY S 676 & TM6	5IGN 678)	SIZE	LENGTH	LOCATION	MIN.	
	(TM200–TM201, TM635)	WIDTH	HEIGHT	PLYWOOD SHEET ALUMINUM FXTRIDED ALUM. (TM675)	ASTM TYPE III OR TYPE IV	ASTM TYPE IX ASTM TYPE III OR TYPE IV	ASTM TYPE IX	NON-REFLECTIVE	PERMANENT REMOVABLE (TM230 – TM233)		WOOD POST (TM670-TM671, TM67 SQ. TUBE SIGN SUPPORT (TM67 TM676, TM681, TM687-TM68	TRIANGULAR BASE BREAKAW (TM602)	H – FRAME MULTI-POST BREAKAWA (TM220, TM600-TM601	STAINLESS STEEL CLAMP (SS (TM677)	SIGNAL POLE MOUNT (TM680) MAST ARM SIGN MOUN	(TM679) BRIDGE STRUCTURE MOUN (TM677)	CANTILEVER / BUTTERFL (TM622-TM627) SIGN BRIDGE (TM606-	TM612, TM614-TM620 EXIT NUMBER SIGN MOUNT	(TM620, TM220) ROUTE MARKER FRAME (TM678)	(TM02.0) MILEPOST MARKER POS (TM221-TM222)	CROSSWALK CLOSUKE BARRICADE (TM240) VERTICAL SIGN MOUNT ON FXISTING STRUCTURE	CUSTOM VARIABLE SUPPOR C 4X5.4		ТН	(BASED ON ESTIMATED LENGTH)	(MUST BE FIELD VERIFIED)	3_/	DEPTH 5_/	
	"D" 20+27.5, Lt.	3'-6"	1'-3"	~	G	SV	N		~	19					· · ·														Mount above Sign No. 3, perpendicular
	"D" 20+27.5, Lt.	3'-6"	1'-3"	✓	G	SV	N		√																				Mount above Sign No. 3, perpendicular
+	"A" 102 / 12 0 Bt	41 01	11.0"		6					20						_			_										Manutahan Cinn Na 2 namandiadan
+	A 192+12.0, Rt.	4'-0	1-0	V	6	50	N N		V	20		-							_										Mount above Sign No. 3, perpendicular
+	A 192+12.0, Rt.	4'-0"	1-0		6		///		√																				Mount above Sign No. 3, perpendicular
+	"A" 203+51 0 1t	4'_3"	1'-0"	<u></u>	G	SI	N		<u> </u>	21						_						$\left \right $							Mount above Sign No. 3 perpendicular
+	"A" 203+51.0.1t.	4'-3"	1'-0"	v	G	SI	N		v																				Mount above Sign No. 3, perpendicular
	"A" 203+90.0. Rt.	4'-3"	1'-0"	- 	G	SI	N		v																				Mount above Sign No. 3, perpendicular
	"A" 203+90.0. Rt.	4'-3"	1'-0"	v	G	SI	N		v V																				Mount above Sign No. 3, perpendicular
	,																												
	"A" 225+26.0, Rt.	36"	36"	1	YG	R	?	Bk	\checkmark	22	✓														2 ½" & 2 ½" - 12 ga	12'-6"	13.5'	3'-0"	(Slip base)
	"A" 123+44.0, Lt.	24"	30"	 ✓ 	Y			Bk	✓	23																			
	"A" 124+51.0, Lt.	24"	30"	 ✓ 	Y			Bk	✓																				
	"A" 125+31.0, Lt.	24"	30"	 ✓ 	Y			Bk	✓																				
_	"A" 126+11.0, Lt.	24"	30"	 ✓ 	Y		_	Bk	✓														_						
_	"A" 126+91.0, Lt.	24"	30"	 ✓ 	Y			Bk	✓																				
	"A" 135+88.0, Rt.	24"	30"	 ✓ 	Y			Bk	√		√					_			_						2" – 12 ga	11'-6"	14.5'	3'-0"	(Slip base)
	"A" 136+68.0, Rt.	24"	30"	√	Y			Bk	✓ 		√														2" – 12 ga	11'-6"	15.5'	3'-0"	(Slip base)
+	"A" 137+48.0, Rt.	24"	30"	✓	Y			BK	✓		√							_							2" – 12 ga	1/'-6"	14.5'	3'-0"	(Slip base)
+	"A" 123+44 0 lt	24"	30"	<u> </u>	Y				1	24						_									2" – 12 ga	12'-6"	8.0'	3'-0"	(Slip base)
┥	"A" 124+51.0. Lt.	24"	30"		Υ ·			Bk	· ·	+ - +															2" - 12 ga	13'-0"	11.5'	3'-0"	(Slip base)
+	"A" 125+31.0. Lt.	24"	30"		Υ ·			Bk	· ·		· ·								-						2" - 12 ga	13'-0"	11.0'	3'-0"	(Slip base)
+	"A" 126+11.0, Lt.	24"	30"		Y			Bk	√		· ·														2" - 12 ga	13'-0"	11.5'	3'-0"	(Slip base)
+	"A" 126+91.0, Lt.	24"	30"	v	Y			Bk	✓		 ✓														2" - 12 ga	12'-6"	12.0'	3'-0"	(Slip base)
1	"A" 135+88.0, Rt.	24"	30"	1	Y			Bk	√																				
1	"A" 136+68.0, Rt.	24"	30"	1	Y			Bk	√																				
	"A" 137+48.0, Rt.	24"	30"	1	Y			Bk	\checkmark																				
5	"A" 229+72.0, Rt.	3'-6"	1'-3"	 ✓ 	G	SV	N		✓	26																			Mount above Sign No. 3
	"A" 229+72.0, Rt.	3'-6"	1'-3"	 ✓ 	G	SV	N		✓							_			_										Mount above Sign No. 3, facing hwy.
+							_										+											-	
+					+ +		_			+ +							+	_				+ +							

 $\frac{1}{}$ BK=BLACK BL=BLUE BR=BROWN FY=FLUORESCENT YELLOW G=GREEN O=ORANGE R=RED RB=RED-BLUE SW=SILVER-WHITE W=WHITE Y=YELLOW

YG=YELLOW-GREEN

2_/ NOTE: L,C,R ARE LOCATIONS OF POSTS FACING THE SIGN. L=LEFT POST

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- ³/ DISTANCE FROM EDGE OF PAVEMENT, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM601, TM602 AND TM635.
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RD101

Effective Date: June 1, 2021 - November 30, 2021

Finish grade Surfacing-match existing material Topsoil or Ε Top of subgrade as directed 0 ا2" Base materia 0 0 0 Class D, pit or bar-run material (3" max.) (As directed) 0 Class B, 1"-0 or ¾"-0 crushed rock 0 Class A Excavated native material Class E CLSM backfill ar Class C clean sand (¼" max.) rench 3808;5053 0<u>808;3498</u>, "D" Table / – Tracer wire (See general note 4) Nom. "B" "B" Pipe diameter "A" "C" Pipe bedding, ັບ see Table A Trench foundation stabilization, as required 24" m**i**n.

TABLE A

"A" (in)	"B" (in)	"C" (in)	"D" (in)
4	10	4	8
6	10	4	8
8	10	6	10
10	10	6	10
12	12	6	10
15	12	6	10
18	16	6	12
21	16	6	12
24	18	6	12
30	18	6	12
36	24	6	14
42	24	6	14
48	24	6	14
54	24	6	14
60	24	6	14
66	24	6	14
72	24	6	14

For pipes over 72" diameter, see general note 3.

DIA Up 48"

- diameter.

- CALC. BOOK NO.

The selection Standard D signed in a generally a ing principl is the sole l the user an used without Registered gineer.

20-JUL-2020

d300.dgn

MULTIPLE INSTALLATIONS										
METER	MIN. SPACE BETWEEN PIPES									
to 48"	24"									
to 72"	One half ($\frac{1}{2}$) dia. of pipe									

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Surfacing of paved areas shall comply with street cut Std. Dwg. RD302.

2. For pipe installation in embankment areas where the trench method will not be used and the pipe is \geq 36" diameter, increase dimension "B" to nominal pipe

3. Pipes over 72" diameter are structures, and are not applicable to this drawing.

4. See Std. Dwg. RD336 for tracer wire details (When required).

<u>N/A</u>	SDR DATE14-JUL-2014
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de-	OREGON STANDARD DRAWINGS
ccordance with ccepted engineer– les and practices, responsibility of d should not be	TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS 2021
ut consulting a Professional En-	DATE REVISION DESCRIPTION

RD316

	ELL		AL F	'IPE										
COR	RUGAT	ED STRI	JCTUR.	AL PLA	TE (Dim	nens i or	n in <mark>i</mark> nc	hes)						
D1				ALTER	NATE -	1		ALTE	RNATE	- 2				
DI			Х		X & Y									
SLOPES	5		SLOPES	5	5		SLOPE	S						
1:2	1.3	1.1.5	1:2	1.3	1:1.5	1:2	1:3	1:1.5	1:2	1:3				
72	96	5	11	13	7	13	15	6	12	15				
72	96	7	15	17	11	16	18	10	16	17				
96	144	11	13	11	13	13	13	12	12	12				
72	144	13	20	15	17	22	16	16	22	16				
96	144	17	17	17	19	19	19	18	18	18				
96	144	19	20	20	23	22	22	22	22	22				
96	192	15	23	16	17	25	17	16	24	17				
96	168	18	26	23	20	29	24	19	28	23				
96	168	20	29	25	23	31	26	22	30	26				
168	168	23	15	29	26	16	30	25	28	29				
168	216	26	17	23	29	19	25	28	18	24				
168	216	30	20	26	32	22	28	31	22	28				
168	216	17	23	29	19	25	31	18	24	30				
192	288	19	20	20	23	22	22	22	22	22				
144	240	23	35	31	25	37	32	24	36	32				
192	288	25	26	26	29	28	28	28	28	28				
192	288	29	29	29	31	31	31	30	30	30				
192	288	31	32	32	35	34	34	34	34	34				
168	264	26	41	40	29	43	41	28	42	40				
168	288	30	44	39	32	46	40	31	46	40				
192	288	42	41	41	43	43	43	42	42	42				

For elliptical pipe increase X and Y dimensions by percent of ellipse.

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. All dimensions are subject to necessary tolerances to meet manufacturer's

requirements for plate arrangements.

2. See Std. Dwgs. RD300 or RD304 for installation details.

3. All embankment slopes to be warped where required to provide end projections as shown. 4. Minimum elevation of top of riprap at inlet and outlet is one diameter (D) or one foot higher than design headwater or tailwater elevation respectively whichever is greater.

5. Slope protection required for hydraulic installations. See Table A on Std. Dwg. RD317.

6. $\frac{H}{15}$ and $\frac{H_1}{15}$ only applicable for non-hydraulic applications.

7. Open ends of pipes normally require a site specific design, and may require special treament (Slope ends, culvert embankment protection, paved end slopes, safety end sections, or other measures).

See special details or Standard Drawings as called for on plans.

8. Cross-sectional dimensions may vary with different materials.

9. Full bevel cuts are not recommended for multiple radius shaped pipes.

10. For pipes with skew no.'s 50, 70, 110 or 130, omit the top step (Y).

(For skew diagram, see Std. Dwg. RD319).

1. See Std. Dwg. RD317 for culvert embankment protection and riprap pads (When reqd.).

<u>N/A</u>	SDR DA	ΤΕ <u>15-JAN-2016</u>
	NOTE:	All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de-	OF	EGON STANDARD DRAWINGS
ccordance with ccepted engineer– les and practices, responsibility of Id should not be		SLOPED ENDS FOR METAL PIPE
ut conculting o		2021
n consuling a Professional En-		REVISION DESCRIPTION

PIPE							ŀ		1INUM									PIPF	STEEL												
		1½"x¼					2⅔"x	<u>いここ</u> が"					3	"×1"						1½"x¼"			2 ² /	;" x ⅓	"			3"x1" and 5"x1"			-
		LOCK	SEAM			LO		EAM					LO	CK SE/	AM					LOCK SEAM		WEL	DED OF		CK SEAM		1	WEL	DED OR LOC	K SEAM	
DIAMETER		PECIFIED TH	ICKNESS (In.)	мілімим	s	PECIFIE	D THIC	KNESS	(In.)	MINIMUM		A S	PECIFIED		NESS (I	1.)	мілімим	DIAMETER	MINIMUN	SPECIFIED THICKNESS (In.)	MINIMUM	SPE	CIFIED TH	IICKNE	SS (In.)		MINIMUM	SPECIF	IED THICKNESS (n.) MINIMU	ім
(ln.)	(Ft.)	.060	0.075	COVER (Ft.)	.060	.075	5 .105	5.135	5 .164	COVER (Ft.)	COVER (Ft.)	.060	.075	.105	.135	.164	COVER (Ft.)	(In.)	COVER (Ft.)	.064	COVER (Ft.)	.064	.079	109	.138 .168	COVER (Ft.)	COVER (Ft.)	.064 .07	9 .109 .138	.168 COVER	۲
		MAXIMUM (COVER (Ft.)			MAX		COVER	(Ft.)	-			MAXIMU	IM COVE	R (Ft.)					MAXIMUM COVER (Ft.)			MAXIMUM	COVE	R (Ft.)	-		MAXI	UM COVER (Ft.)	-
6	1.0	100	100															6	1.0	100										, 	-
8	1.0	100	100															8	1.0	100											
10	1.0	100	100								1							10	1.0	100							1				
12				1.0	100	100) 100)		1.0	1							12			1.0	100	100 1	00							
15				1.0	100	100) 100)		1.0	1							15			1.0	100	100 1	00			1				
18				1.0	84	100) 100)		1.0								18			1.0	100	100 1	00							
21				1.0	72	90	100)		1.0								21			1.0	100	100 1	00							
24				1.0	63	78	100) 100	0 100	1.0								24			1.0	100	100 1	00							
30				1.0		63	88	100	0 100	1.0	1.0	57	72	100	100		1.0	30			1.0	83	100 1	00							
36				1.0		52	73	94	100	1.0	1.5	48	60	84	100		1.0	36			1.0	69	86 1	00	100 100	1.0	1.0	79 99	100	1.0	
42				1.5			63	81	99	1.0	1.5	41	52	72	97		1.0	42			1.5	59	74 1	00	100 100	1.0	1.0	68 85	100	1.0	
48				1.5			55	71	86	1.0	1.5	36	45	63	84	100	1.0	48			1.5	52	65	91	100 100	1.0	1.5	59 74	100 100	1.0	
54				1.5			48	63	77	1.0	1.5	32	40	56	75	88	1.0	54			1.5		57	80	100 100	1.0	1.5	53 66	93 100	1.0	_
60				1.5				52	65	1.0	1.5	28	36	50	67	80	1.0	60						72	93 100	1.0	1.5	47 59	83 100	1.0	_
66				1.5				_	53	1.5	1.5	26	33	46	61	72	1.0	66						_	85 100	1.0	1.5	43 54	76 98	1.0	_
72				1.5		_			43	1.5	1.5	24	30	42	56	66	1.0	72							78 95	1.0		39 49	69 89	100 1.0	_
/8						_			_		1.5		28	39	52	61	1.0	78							84	1.0	1.5	36 45	64 82	100 1.0	_
84						_			_		1.5	_		36	48	57	1.0	84							/3	1.0		34 42	59 77	94 1.0	_
90											1.5	_		33	45	53	1.0	90									1.5	31 39	55 71	88 1.0	_ t
96					<u> </u>	_					1.5	_		31	42	50	1.5	96									1.5	31	52 67	82 1.0	
102								_			1.5				39	47	1.5	102								_		35	49 63		- ŭ
108					<u> </u>	_		_	_		1.5				37	44	1.5	108											46 59	73 1.5	_ `
114					<u> </u>			_	_		1.5					40	1.5	114											44 56	69 1.5	_
120					<u> </u>	_		_	_		1.5					36	1.5	120											41 53	66 1.5	
						_		_	_									126									2.0		51	62 2.0	_
							_	_	_									132									2.0		49	60 2.0	
					-	_		_	_									138									2.0		46	57 2.0	_
																		144									2.0			55 2.0	

RD380

GENERAL NOTES FOR ALL TABLES ON THIS SHEET:

- 1. Maximum height of cover is greatest vertical distance from top of pipe to finish grade.
- 2. Minimum height of cover is least vertical distance from top of pipe to subgrade.
- 3. For ODOT, pipes with diameters greater than 72" must be reviewed by the Geo-Environmental Section.
- 4. For ODOT, pipes with maximum cover greater than those shown in the Tables shall be approved by the Senior Standards Engineer.
- 5. For multiple pipe installations, see Std. Dwg. RD300.
- 6. Heavy solid line denotes boundary between minimum cover requirements.

- 7. Open ends of pipes normally require a site specific design, and may require special treatment (Sloped ends, culvert embankment protection, paved end slopes, safety end sections, or other measures). See special details or Standard Drawings as called for on plans.
- 8. For minimum thickness, see AASHTO M197, M218, and M274.
- 9. 5"x1" corrugation can be used as an alternate for 3"x1" corrugation. Maximum fill height for 3"x1" can be increased by up to 12% over values shown for pipe size 54" and larger.

FILL HEIGHT TABLE FOR CORRUGATED CIRCULAR PIPE

CALC. BOOK NO <u>RD07-01</u>	SDR DATE08-JUL-2013
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
The selection and use of this Standard Drawing, while de- signed in accordance with generally accepted engineer- ing principles and practices, is the sole responsibility of	OREGON STANDARD DRAWINGS FILL HEIGHT TABLES FOR ALUMINUM & STEEL CORRUGATED PIPE
the user and should not be	2021
used without consulting a Registered Professional En-	DATE REVISION DESCRIPTION
gineer.	

<u>N/A</u>	SDR DATE25-JUL-2017
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this Prawing, while de-	OREGON STANDARD DRAWINGS
ccordance with ccepted engineer- les and practices, responsibility of nd should not be	ASPHALT CONCRETE PAVEMENT (ACP) DETAILS 2021
ut consulting a Professional En-	DATE REVISION DESCRIPTION
1 November	RD615

<u>N/A</u>	SDR DATE 21-JUN-2019
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de-	OREGON STANDARD DRAWINGS
ccordance with ccepted engineer- es and practices, responsibility of	APPROACHES AND NON-SIDEWALK DRIVEWAYS
d should not be	2021
ut consulting a	DATE REVISION DESCRIPTION
Professional En-	

TABLE A

		K (ft)												
W	x	5	6	8	10									
(ft)	(ft)		W ₁ (ft)											
12		15	15	15	15									
14		17	17	17	17									
16	3	19	19	19	19									
18		21	21	21	21									
20		23	23	23	23									
22		27	28	29	30									
24		29	30	31	32									
26	4	31	32	33	34									
28		33	34	35	36									
30		35	36	37	38									
32		41	42	44	46									
34	5	43	44	46	48									
36		45	46	48	50									

Where a travel lane is constructed adjacent to the curb line, use 16' W min. for residence and 30' W min. for light commercial, add 5' to W_1 for both. Do not add the 5' to W_1 when 4' min. shidr. or bikeway is included in the typical.

		IADLL	. J		
	WOOD			METAL	
* ROUND SQU				WEICHT	
DIAMETER OF SMALL END (in)		SIZE nominal	SHAPE PER (ft) no nominal		SIZE nominal
minmax.	min avg.	(in)			
3" to 4"	3"	[†] 3"x3"	Tee Channel ⓐ or U-bar	1.33 lb	ASTM A-702
3½"	4"	4"~4"	Tubular	b	1½" +/− O.D.
to 5½"	4	4 X 4	(a) Angle	3.19 lb	2"x2"x¼"
4" to 7"	E	[‡] 5"x5"	Tubular	b	2¾" O.D.
4 10 7	5		(a) Angle	4.1 I b	2½"x2½"x¼"

<u>N/A</u> _	SDR DATE13-JAN-2020		
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications		
on and use of this Drawing, while de-	OREGON STANDARD DRAWINGS		
ccepted engineer- les and practices, responsibility of ad should not be	BARBED AND WOVEN WIRE FENCES		
ut consulting a	DATE REVISION DESCRIPTION		
Professional En-			

GATE COMPONENTS						GATE POSTS 12							
								WOOD				ST	EL
GATE O	PENING ft)	SCHEDULE 40 GALV. SCHEDULE 40 GALV.			TRUSS	* ROUND			SQUARE	SCHEDULE STEEL	40 GALV. PIPE		
(BODS	DIA. OF SMALL END (in)		NOM SIZE	NOM DIA	MIN WT		
SINGLE GATE	DOUBLE GATE	NOM. DIA. (in)	MIN. W I. (lb/ft)	NUMBER	NOM. DIA. (in)	MIN. W I. (Ib/ft)	110D0	Min.	Max.	Min. Avg.	(in)	(in)	(lb/ft)
UP thru 6	UP thru 12	1	1.68	-	-	_	-	5	7	6	6x6	21⁄2	5.79
7 thru 11	13 thru 22	11/4	2.27	1	1	1.68	1	5	7	6	6x6	31/2	9.11
12 thru 16	23 thru 32	1½	2.72	2	11/4	2.27	2	7	9	8	8x8	6	18.97
17 thru 20	33 thru 40	2	3.65	2	11/4	2.27	2	9	11	10	10x10	6	18.97

(1) Gate posts on each side of a gate opening to be the same size. At a double gate installation with unequal width gates, size of both posts to be as indicated for single gate installation of the wider gate width.

(2) For length, setting and bracing details see end posts, Std. Dwg. RD810.

* Max. taper 1" in 4'

RD820

Effective Date: June 1, 2021 - November 30, 2021

<u>N/A</u>	SDR DATE	<u>13-JAN-2020</u>
	NOTE: All mate the curre	rial and workmanship shall be in accordance with ent Oregon Standard Specifications
on and use of this rawing, while de- ccordance with	OREGO	N STANDARD DRAWINGS
ccepted engineer- les and practices, responsibility of		FENCE GATES
nd should not be		2021
ut consulting a Professional En-	DATE	REVISION DESCRIPTION
		2020

RD1005

rd1005.dgn

01-20-2021

Effective Date: June 1, 2021 - November 30, 2021

01-20-2021 rd1030.dgn

PLAN

SECTION A-A

BIOFILTER BAG / SAND BAG BARRIER - TYPE 2 AND 4 NOT TO SCALE

NOTES:

- 1. For Type 2 barrier, drive stakes flush with top of bag and into undisturbed ground a min. of 12". Omit stakes if bags are placed on paved surface.
- 2. For Type 2 and Type 4 barriers, space bags (L) so that the elevation of point "A" is less than or equal to the elevation of point "B".
- Type 2 Biofilter bags Type 3 – Wattles Type 4 – Sand bags

BARRIER SPACING						
INSTALL PARALLE	L ALONG CONTOURS	S AS FOLLOWS				
% SLOPE	% SLOPE	MAXIMUM SPACING ON SLOPE				
10% Flatter	1:10 or Flatter	300'				
10 > % <u>></u> 15	10 > X <u>></u> 7.5	150'				
15 > % <u>></u> 20	7.5 > X ≥ 5	100'				
20 > % <u>></u> 30	5 > X <u>></u> 3	50'				
Steeper than 30%	Steeper than 1:3	25'				

Stagger joints 1 Flow Α

Effective Date: June 1, 2021 - November 30, 2021

1-3-2017

TM200.dgn

TM200

- a. Signing details shown on this sheet are intended to convey "typical" conditions only. Individual locations may require installation different from those shown.
- For guidance regarding unique installations or exceptions call the Project Sign Designer or Region Traffic Section.
- b. Locate breakaway supports away from ditches to avoid problems with erosion, corrosion, debris, maintenance and breakaway performance. See Dwg. No. TM635 for more information.
- c. For wood post support details see Dwg. No. TM670.
- d. For perforated steelsquare tube support details see Dwg. No. TM681.
- e. For triangular base breakaway support details see Dwg. No. TM602.
- f. For multi-post breakaway support details see Dwg. No. TM600.
- g. Mounting heights should not be more than 3 inches more than the minimum heights shown, where practical.
- h. 2" vertical spacing between all signs.

Notes:

- 1). 6' minimum if behind barrier.
- 2). 2' minimum if restricted R/W.
- 3) 20 for ramp terminals.
- 4). 8' minimum if bicycle path underneath.
- 5). 8' minimum if secondary signs attached.
- 6). 5' minimum if outside clearzone, in rural areas and no pedestrians underneath.
- 7). For multi-post installations measure distance from post closest to roadway.

N/A	SDR DATE 01/08/2018
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de- ccordance with ccepted engineer- les and practices, responsibility of	OREGON STANDARD DRAWINGS SIGN INSTALLATION DETAILS
d should not be	2021
it consulting a	DATE REVISION DESCRIPTION
Professional En-	

TM200

Effective Date: June 1, 2021 - November 30, 2021

TM201

Effective Date: June 1, 2021 - November 30, 2021

2017

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dan

TM223.(

TM223

	SERIES (FONT)						
	B		С	D	E		
S	.531	Н	.625 H	.836 H	1.00 H		

N/A	SDR DATE
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de-	OREGON STANDARD DRAWINGS
ccordance with	CONVENTIONAL ROADS
ccepted engineer-	DIRECTIONAL SIGN LAYOUT
les and practices, responsibility of	STREET NAME SIGNS
d should not be	2021
ut consulting a	DATE REVISION DESCRIPTION
Professional Fn-	11/23/20 Added type XI sheeting to notes
i loicosionai En	

TM223

Effective Date: June 1, 2021 - November 30, 2021

TM500

1.) Use control points to make continous narrow guideline as specified.

* Control points are placed along the lane line for all longitudinal lines except the following:

ND For center A control point layout 4" offset from the lane line is required for a ND line when used as a center line.

anied by Standard D	wg. Nos. TM500 thru TM504
N/A	SDR DATE07/01/2020
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.
on and use of this rawing, while de- ccordance with	OREGON STANDARD DRAWINGS
ccepted engineer- les and practices, responsibility of	ALIGNMENT LAYOUT: GENERAL
d should not be	2021
ut consulting a	DATE REVISION DESCRIPTION
Professional En-	07/2020 Extended accompanied by drawings to include TM504

Nee TMEOO three TMEOA

TM671

1. The wind velocity map as shown is adapted from AASHTO 2001 4th Edition -"Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals", Appendix C, Figure C-3 and Section 3, Figure 3-2. It uses the wind speed map shown in Figure 1609 of the 2007 Oregon Structural Code to account for locations in the State with special wind regions.

2. The wind velocities shown above are 3-Second Gust wind velocities.

3. The Exposure Catagory is C.

4. The mean recurrence interval is 50-Years.

5. Mountanious terrain, gorges, and ocean promontories are classified as special wind regions and shall be examined for unusual wind conditions. 6. The Interval Height (Kz) is 30 ft.

7. All areas with full exposure to ocean winds shall be designated 110 mph areas. 8. Areas in Multnomah and Hood River counties with full exposure to Columbia River Gorge winds shall be designated 110 mph areas.

9. Localities may have adopted wind speed higher that shown on this map. Those higher wind speed shall be used.

	SDR DATE06-JAN-2012
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de- ccordance with	OREGON STANDARD DRAWINGS
ccepted engineer- les and practices, responsibility of	3 SECOND GUST WIND SPEED MAP
nd should not be	2021
ut consulting a	DATE REVISION DESCRIPTION
Professional En-	

Effective Date: June 1, 2021 - November 30, 2021

SIGN ATTACHMENT DETAIL

CALC. BOOK NO.

The selection Standard D signed in a generally a ing principl is the sole i the user and used without Registered gineer.

10-JUL-2020

tm676.dgn

Note: This optional detail is to be used only when specified on a project.

OPTIONAL WOOD POST LAG SCREW DETAIL

	SDR DATE10_JUL-2020
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de- ccordance with	OREGON STANDARD DRAWINGS
ccepted engineer- les and practices, responsibility of	SIGN ATTACHMENTS
d should not be	2021
ut consulting a	DATE REVISION DESCRIPTION
Professional En-	07/20 Added optional lag screw detail.

Effective Date: June 1, 2021 – November 30, 2021

SINGLE POST ELEVATION

TWO POST ELEVATION No scale

No scale

	(X * Y * Z) in ft ³ – Maximum								
	3 Second Gust Wind Speed (TM671)								
	85 MPH 95 MPH 105 or 110 MPH								1PH
	Nu	mber of Po	osts	Number of Posts			Number of Posts		
Square Tube Size	1	2	3	1	2	3	1	2	3
2"-12 ga.	79	158	237	63	126	189	57	114	171
2½″−12 ga.	136	272	408	109	218	327	98	196	294
2½″−10 ga.	165	330	495	132	264	396	119	238	357
2¼4" & 2½"-12 ģa.	231	462	693	185	370	555	167	334	501

PERMANENT PERFORATED STEEL SQUARE TUBE TABLE

	(X * Y * Z) in ft ³ – Maximum								
		3 Second Gust Wind Speed (TM671)							
		85 MPH 95 MPH 105 or 110 MPH							
	Number of Posts Number of Posts Number of				mber of Po	^F Posts			
Square Tube Size	1	2	3	1	2	3	1	2	3
2"-12 ga.	125	250	375	100	200	300	90	180	270
2½"-12 ga.	215	430	645	172	344	516	155	310	465
2½″−10 ga.	261	522	783	209	418	627	189	378	567
2¼4" & 2½"-12 ĝa.	364	728	1092	292	584	876	263	526	789

TEMPORARY PERFORATED STEEL SQUARE TUBE TABLE

	Number of Posts				
Square Tube Size	1	2	3		
2"-12 ga.	Anchor	Anchor	N/A		
2½″−12 ga.	Anchor	Slip	Slip		
2½″−10 ga.	Slip	Slip	Slip		
2¼4" & 2½"-12 ģ́a.	Slip	Slip	Slip		

1. Anchor – See Drawing TM687 for PSST anchor foundation details. 2. Slip – See Drawing TM688 for PSST slip base

foundation details.

3. N/A – Do not use this option.

THREE POST ELEVATION

No scale

BASE REQUIREMENTS

* - See 2¹/₄" & 2¹/₂" - 12 ga. detail.

GENERAL NOTES:

TM671.

Accompanied by

CALC. BOOK NO.

The selection Standard D signed in a generally a ing principl is the sole the user and used without Registered gineer.

1.Perforated Steel Square Supports are designed in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals 4th Edition, 2001, 2002, 2003, and 2006 interim revisions. 2. The design basic wind speed (3 second gust) shall be according to the wind map shown on

3. Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.

4.Use 7_{16} diameter holes at 1" spacing on each of the 4 sides.

5.Steel post shall have a minimum yield stress of 50 ksi.

6.Steel shall be galvanized according to ASTM A653 with coating designation G90. 7.General design parameters are Kz = 0.87, Cd (sign) = 1.20, and G = 1.14.

8.Permanent signing uses an Ir = 0.71 for a recurrence interval of 10 years. 9. Temporary signing uses an Ir = 0.45 for a recurrence interval of 1.5 years.

10. The sign width to sign height or sign height to sign width ratio shall not exceed 5.0.

11.For horizontal and vertical clearances of permanent signs refer to TM200 and of temporary signs refer to TM822.

12.Posts protected by barrier or guardrail do not require slip bases.

 $2\frac{1}{4}$ " – 12 ga. PSST to extend entire length inside of the $2\frac{1}{2}$ " – 12 ga. PSST.

- II -	&	21/2"	_	12	GA.	DETAIL
			Nc	scale	9	

durac	TM200	TM671	TMC07	TNACOO	TMCOO	TMODD
uwys.	1111200,	11071,	110007,	110000,	110009,	TIMOZZ

5752	SDR DATE10_JUL_2017					
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications					
on and use of this rawing, while de-	OREGON STANDARD DRAWINGS					
ccordance with ccepted engineer– les and practices, responsibility of	PERFORATED STEEL SQUARE TUBE (PSST) SIGN SUPPORT INSTALLATION					
d should not be	2021					
ut consulting a	DATE REVISION DESCRIPTION					
Professional En-						

Effective Date: June 1, 2021 - November 30, 2021

10-JUL-2020 tm688.dgn

SLIP BASE ELEVATION

No scale

SLIP BASE EXPLODED VIEW

No scale

General Notes:

CALC. BOOK NO.

The selection Standard D signed in a generally a ing principl is the sole the user an used without Registered gineer.

1. Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.

2. Slip base steel shall be hot dipped galvanized or approved equal.

3. Footing concrete shall be Commercial Grade Concrete (fc = 3000 psi) per Specification 00440. The CGC mixture may be accepted at the site of placement according to 00440.14.

4. Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing. 5. All slip bases shall be pre-assembled by the manufacturer and shall be installed according

to the manufacturer's instructions.

6. Use slip bases listed on the ODOT Qualified products list or submit crash testing data, installation instructions, and unstamped working drawings according to 00150.35.

7. Slip base details shown are not for a specific manufacturer and are only shown to convey general pieces of a slip base system. Specific slip base material will be acccording to the manufacturer's documentation.

Accompanied by dwgs. TM681, TM687

5752	SDR DATE06-JAN-2012
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de-	OREGON STANDARD DRAWINGS
ccordance with ccepted engineer- les and practices, responsibility of	PERFORATED STEEL SQUARE TUBE (PSST) SLIP BASE FOUNDATION
d should not be	2021
ut consulting a	DATE REVISION DESCRIPTION
Professional En-	

Effective Date: June 1, 2021 - November 30, 2021

1. Reference TM681, TM687, and TM688 for additional PSST details. 3. PSST Vane anchor design in accordance with the 5th Edition 2009 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic

4. Use the 3 second gust wind speeds shown on TM671 for the site specific sign location. General design parameters are Kz = 0.87, Cd (sign) = 1.20, G = 1.14, and Ir = 0.45 for

6. The PSST Vane anchor shall not remain permanently in place.

7. The temporary PSST vane anchor shall be hot-dip galvanized after fabrication.

1. Excavate the hole to 6" deeper than the required depth and backfill the bottom 6" with well compacted granular material meeting the requirements of 00330.14. 2. Align the vane anchor in the hole to a vertical position. The space around the vane anchor shall be backfilled to finished ground surface. Backfill with selected general backfill meeting the requirements of 00330.13.

Solidly ram and tamp the layers into the excavation area around the post.

Dampen during placement if too dry to compact properly.

8. Replace and finish the surface around the vane anchor to match the surrounding surface.

Size	d
	2'-6"
	3'-0"
	3'-0"
ga.	3'-6"

installed in the 3" x 3" x 7 ga. anchor.

DEPTH REQUIREMENTS

dwgs. TM200, TM671, ⁻	TM681, TM687, TM688, TM822
6634	SDR DATE06_JAN_2017
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de- ccordance with	OREGON STANDARD DRAWINGS
ccepted engineer- les and practices, responsibility of	TEMPORARY PSST VANE ANCHOR INSTALLATION
d should not be	2021
ut consulting a	DATE REVISION DESCRIPTION
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Effective Date: June 1, 2021 - November 30, 2021

TAPER TYPES & FORMULAS					
TAPER	FORMULA				
Merging (Lane Closure)	"L"				
Shifting	"L"/2 or ½"L"				
Shoulder Closure	"L"/3 or ½"L"				
Flagging (See Drg. TM850)	50' – 100'				
Downstream (Termination)	Varies (See Drawings)				

★ Use Pre-Construction Posted Speed to select the Speed from the Tables below:

TEMPORARY BARRIER FLARE RATE TABLE				
★SPEED (mph)	MINIMUM FLARE RATE			
<u>≤</u> 30	8:1			
35	9:1			
40	10:1			
45	12:1			
50	14:1			
55	16:1			
60	18:1			
65	19:1			
70	20:1			

MI	ΝΙΜΙ	JM L	ENG	ГΗЅ	TABLE
"L					
	W = Lane o	r Shoulder Wic	Ith being close	d or shifted	BOFFER "B" (ft)
T SPEED (mph)	$W \leq 10$	W = 12	W = 14	W = 16	
25	105	125	145	165	75
30	150	180	210	240	100
35	205	245	285	325	125
40	265	320	375	430	150
45	450	540	630	720	180
50	500	600	700	800	210
55	550	660	770	880	250
60	600	720	840	960	285
65	650	780	910	1000	325
70	700	840	980	1000	365
		F	REEWAYS	5	
55	1000	1000	1000	1000	250
60	1000	1000	1000	1000	285
65	1000	1000	1000	1000	325
70	1000	1000	1000	1000	365
NOTES;					

• For Lane closures where W < 10', use "L" value for W = 10'.

• For Shoulder closures where W < 10', use "L" value for W = 10' or calculate "L" using formula, for Speeds \ge 45: L = WS, Speeds < 45: L = S²W/60, S = Speed, W=Width

TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE				
SPEED (mph)	Sign Spacing (ft)			Max. Channelizing
	А	В	С	Device Spacing (ft)
20 – 30	100	100	100	20
35 - 40	350	350	350	20
45 - 55	500	500	500	40
60 - 70	700	700	700	40
Freeway	1000	1500	2640	40

NOTES:

TM800

• Place traffic control devices on 10 ft. spacing for intersection and access radii. • When necessary, sign spacing may be adjusted to fit site conditions.

Limit spacing adjustments to 30% of the "A" dimension for all speeds.

NOTES:	
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- When payed shoulders adjacent to excavations are less than • four feet wide protect longitudinal abrupt edge as shown.
- Use aggregate wedge when abrupt edge is 2 inches or greater.

EXCAVATION ABRUPT EDGE

NOTES:

- Abrupt edges may be created by paving, operations, excavations • or other roadway work. Use abrupt edge signing for longitudinal abrupt edges of 1 inch or greater.
- If the excavation is located on left side of traffic, replace the 8' B(III)R barricades with 8' B(III)L barricades and replace the "RIGHT" (CW21-8C) riders with "LEFT" (CW21-8A) riders.
- Continue signing and other traffic control devices throughout excavation area at spacings shown.
- If roll-up signs are used, attach the correct (CW21-9) . plaques to the sign face using hook and loop fasteners. Place roll-up signs in advance of barricades.

8' B(III)R

1⁄4 mi.

NOTES:

- ٠ Right shoulder, use Type B(III)R
- •
- Portable Traffic Signals

Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

TYPICAL ABRUPT EDGE DELINEATION

1/4 mi.

8' B(III)R

¼ mi.

	2021
DATE	REVISION DESCRIPTION

Effective Date: June 1, 2021 - November 30, 2021

ive rs	Temp. reflective or flexible pvmt. markers 40'			
		LAYOUT "D" (Simulated broken lines)		
	TYPICAL APPLIC During staging HMAC interme Emulsified asp pavement mar	TIONS: on finished/existing surfaces. iate surfaces. alt surface treatments (chip seals) where permanent ings cannot be placed within two weeks.		
e	 GENERAL NOTES FOR ALL DETAILS: When using Supplemented or Simulated lines: Yellow Bi-Directional Pavement Markers are required for Two-Way Traffic. White Mono-Directional Pavement Markers are required for one-way traffic or edge lines. Supplemented lines are painted lines enhanced with Reflective Pavement Markers. Simulated lines are Reflective Pavement Markers placed in a pattern to substitute for a painted line. Pavement marking colors shall conform to the MUTCD. 			
	N/A	SDR DATE	-	
		NOTE: All material and workmanship shall be in accordance win the current Oregon Standard Specifications	th	
on and use of this rawing, while de- ccordance with ccepted engineer- les and practices, responsibility of d should not be ut consulting a		OREGON STANDARD DRAWINGS TEMPORARY PAVEMENT MARKINGS 2021 Date Revision Description		
Profi	essional En-			

GENERAL	NOTES	FOR	ALL	DETAILS:
GENERO (E	110125	1.010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DEI/ GES.

• San may	dbags (approximately 25 lb sack filled with sand) / be placed on lower frame to provide additional ballast.		
 Ball fror 	ast shall not extend above bottom rail or be suspended n barricade.		
• For	• For rails less than 36" long, 4" wide stripes shall be used.		
• Rail	s must be 8" min. to 12" max. in height.		
• Use	barricades from ODOT Qualified Products List (QPL).		
• Use spa	4' Type III barricades where horizontal ce is limited.		
 Do faci 	not block bike lanes or shoulders unless the lity is properly closed and signed.		
 Do clos is si 	not place barricades in sidewalks unless sidewalk is ed and a temporary pedestrian accessible route (TPAR) igned according to the TCP. See Dwg. No. TM844.		
	Barricade Barricade type Indicates barricade placement on the roadway B(III)R BARRICADE NOTATION		
<i>F</i>	SDR DATE01_JUL-2020		
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications		
of this ile de-	OREGON STANDARD DRAWINGS		
with gineer– ctices,	TEMPORARY BARRICADES		

or		
be		2021
7	DATE	REVISION DESCRIPTION
n_		

TM820

Effective Date: June 1, 2021 - November 30, 2021

NOTES:

- Do not block bicycle lanes, sidewalks, or TPAR's with sign supports. Maintain minimum widths for these facilities according TCP Design Manual, MUTCD, ADA, or as directed.
- To be accompanied by Dwg. Nos. TM670, TM671, TM687, TM688 & TM689.

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01-JUL-2020

tm822.dgn

NOTES:

- Drill additional holes so sign can be rotated 90 degrees and pinned when not in use.
- All structural steel shall conform to ASTM A36.
- Support fits both 32" and 42" tall "F" barrier.
- Use for supporting a maximum 12 sq. ft. of total sign area.
- Place support at connection between two concrete barrier sections.
- Weld steel according to American Welding Society (AWS) D.1.1.
- Do not use clipped signs.
- Follow manufacturer recommendation when installing signs on barrier other than concrete.

CONCRETE BARRIER SIGN SUPPORT

N/A	SDR DATE				
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications				
on and use of this rawing, while de- ccordance with	OREGON STANDARD DRAWINGS				
ccepted engineer- les and practices, responsibility of	TEMPORARY SIGN SUPPORTS				
d should not be	2021				
ut consulting a	DATE REVISION DESCRIPTION				
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TM822

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