

				FOUND MONUMENT TABLE		IOTES
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION		WN ON THESE PLANS TO BE PERFORMED LINDER CONTRACT SHALL
100	403137.32	3309127.22	3411.63	5/8" IR	BE CONSTRUCT	ED IN ACCORDANCE WITH THE CONTRACT SPECIAL PROVISIONS AN
101	403094.33	3309127.04	3412.59	HELD - 5/8" IR DOWN 0.75' IN PAVEMENT	REVISED 2021.	TATE "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION,"
102	403175.60	3308794.25	3413.45	R/R SPIKE		AND DESCRIPTIONS OF FYISTING LITH ITIES SHOWN ARE COMPILED
103	403141.42	3308463.74	3411.69	1" PIPE DOWN 0.5'	FROM AVAILAB	LE RECORDS AND/OR FIELD SURVEYS. THE COUNTY AND UTILITY
104	403081.20	3308628.00	3411.75	5/8" IR WITH YPC INSCRIBED "BAXTER"	COMPANIES DO) NOT GUARANTEE THE ACCURACY NOR THE COMPLETENESS OF 5. LOCATIONS SHOWN ARE APPROXIMATE AND TO BE VERIFIED BY
105	403084.74	3308178.91	3416.07	1/2" IR	THE CONTRACT	OR PRIOR TO CONSTRUCTION. ADDITIONAL UNDERGROUND
106	403219.09	3308103.29	3414.65	1/2" IR		EXIST WHICH ARE NOT SHOWN HEREIN.
107	403085.44	3307803.96	3413.06	1/2" IR	3. ATTENTION: OF	REGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE
108	403272.47	3307757.54	3410.40	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"	952-001-0010	HROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES B
109	403280.13	3307748.38	3410.17	5/8" IR W/ YPC - ILLEGIBLE	- CALLING THE C OREGON UTILIT	ENTER. (NOTE: THE ADMINISTRATIVE TELEPHONE NUMBER FOR THE Y NOTIFICATION CENTER IS (503) 232-1987; WEBSITE IS
110	403272.62	3307817.58	3410.16	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"	callbeforeyoud	ig.org/oregon).
111	403145.49	3307631.22	3413.40	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"	4. PROVISIONS SH	ALL BE MADE BY THE CONTRACTOR TO KEEP ALL EXISTING UTILITIES
112	403145.17	3307560.96	3413.97	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"	IN SERVICE AND NECESSARY.	PROTECT THEM DURING CONSTRUCTION BY ANY MEANS
113	403085.04	3307560.01	3413.94	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"		
114	403156.11	3307173.01	3414.50	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"	PLACE SHALL BI	E REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO
115	403096.06	3307171.32	3415.06	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"	ACCOMPLISH T	HE WORK. THE CONTRACTOR SHALL FILL COMPLETELY THE RTION(S) OF ABANDONED UTILITIES WITH CONTROLLED
117	403165.12	3307173.74	3414.19	5/8" IR W/YPC INSCRIBED "HIGH DESERT ENG LS 540"	LOW-STRENGTI	H MATERIALS (CLSM) OR GROUT, PER COUNTY REQUIREMENTS.
119	403090.63	3306903.19	3412.04	5/8" IR W/YPC INSCRIBED "HIGH DESERT ENG LS 540"	6. TOPOGRAPHIC	SURVEY BY HARPER HOUF PETERSON RIGHELLIS, INC. DATED
120	403044.90	3306857.68	3412.88	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"	DECEMBER 7, 2	021. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO
121	402999.76	3306896.83	3414.54	1/2" IR		v.
122	402999.23	3306896.61	3414.64	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"	2 7. CONTRACTOR I CONSTRUCTION	S RESPONSIBLE FOR SITE SAFETY, WAYS, MEANS, AND METHODS OF N.
125	403753.76	3307756.76	N/A	5/8" IR W/ YPC INSCRIBED "LS 2527"		
126	403803.73	3307756.62	, 3410,70	5/8" IR W/ YPC INSCRIBED "LS 2527"	CONDITIONS BI	FORE START OF WORK. THE CONTRACTOR SHALL TAKE ALL
127	404084.48	3307756.11	3407.60	5/8" IR W/ YPC INSCRIBED "LS 2527"	NECESSARY FIE EXISTING CONS	LD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND TRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLAN:
128	404389.04	3307819.04	3406.76	1.5" ALUMINUM CAP INSCRIBED "DESCHUTES CO REF MON"	SHOULD ANY E	RRORS OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT
129	404415.50	3307755.52	3406.74	5/8" IR W/ 2" ALUMINUM CAP INSCRIBED "DESCHUTES COUNTY ENGINEERING R/W LS2390"	WRITING FOR C	CLARIFICATION OR CORRECTION.
131	403253.70	3308793.81	3412.25	1/2" IR	9. THE CONTRACT	OR SHALL CONFINE ALL CONSTRUCTION ACTIVITIES TO THE PUBLIC
132	403144.03	3308103.03	3416.51	1/2" IR	RIGHT-OF-WAY	AND EASEMENTS IDENTIFIED ON THE PLANS UNLESS WRITTEN
133	403168.65	3308152.94	3414.52	1/2" IR		OBTAINED FROM THE PROPERTY OWNER.
134	403143.76	3308152.80	3414.90	1/2" IR	10. THE CONTRACT	OR SHALL NOTIFY RESIDENTS WITHIN THE PROJECT AREA A WO BUSINESS DAYS PRIOR TO STARTING WORK. PROVIDING DOOR
135	403141.69	3308461.29	3412.04	1/2" IR	HANGERS LISTI	NG THE CONTRACTOR'S CONTACT INFORMATION.
136	403102.15	3307778.57	3413.42	2.5" ALUMINUM CAP INSCRIBED "DESCHUTES RESET" IN MONUMENT BOX	11. ALL SURVEY MO	DNUMENTS ON THE SUBJECT SITE, OR THAT MAY BE SUBJECT TO
137	403116.10	3307787.81	3414.65	2" ALUMINUM CAP - ILLEGIBLE - IN MONUMENT BOX	- DISTURBANCE V OFF-SITE IMPRO	WITHIN THE CONSTRUCTION AREA, OR THE CONSTRUCTION OF ANY OVEMENTS SHALL BE ADEQUATELY REFERENCED AND PROTECTED
138	404415.57	3307794.19	3406.92	1/2" HOLE IN STEEL PLATE DOWN 0.7' IN PAVEMENT - UNDERLYING MONUMENT NOT TIED	PRIOR TO COM	MENCEMENT OF ANY CONSTRUCTION ACTIVITY. IF THE SURVEY
139	404396.76	3307756.91	3406.24	1.5" ALUMINUM CAP INSCRIBED "DESCHUTES CO REF MON"	OF ANY CONST	RUCTION, THE PROJECT SHALL, AT IT'S COST, RETAIN THE SERVICES
140	404458.48	3307758.76	3405.23	5/8" IR DOWN 0.5'	OF A PROFESSION RESTORE THE N	ONAL LAND SURVEYOR REGISTERED IN THE STATE OF OREGON TO MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY
141	404511.85	3307806.06	3405.66	1.5" ALUMINUM CAP INSCRIBED "DESCHUTES CO REF MON"	SURVEYS AS RE	QUIRED BY OREGON STATE LAW. A COPY OF ANY RECORDED
400	403090.15	3306466.33	3414.10	5/8" IR W/YPC INSCRIBED "HIGH DESERT ENG LS 540"		DE SUDIVITTED TO COUNTESTAFF.
401	403139.73	3308745.49	3412.83	5/8" IR - DISTURBED	12. DEMO & REMO	VE EXISTING TREES AND VEGETATION WHERE IT IS IN CONFLICT PACTED BY PROPOSED IMPROVEMENTS.
402	403139.46	3308793.62	3414.15	5/8" IR - DISTURBED		A #
420	401763.95	3307803.01	3424.10	1/2" IR]	10
	TESA		-	DESIGNED:	- Harper	
CHU	00				Houf Deterson	GENERAL

RAL NOTES

- **VSTRUCTED IN ACCORDANCE WITH THE CONTRACT SPECIAL PROVISIONS AND** REGON STATE "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION," D 2021. CATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ARE COMPILED AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE COUNTY AND UTILITY ANIES DO NOT GUARANTEE THE ACCURACY NOR THE COMPLETENESS OF RECORDS. LOCATIONS SHOWN ARE APPROXIMATE AND TO BE VERIFIED BY ONTRACTOR PRIOR TO CONSTRUCTION. ADDITIONAL UNDERGROUND IES MAY EXIST WHICH ARE NOT SHOWN HEREIN. TION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE ON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 1-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY IG THE CENTER. (NOTE: THE ADMINISTRATIVE TELEPHONE NUMBER FOR THE ON UTILITY NOTIFICATION CENTER IS (503) 232-1987; WEBSITE IS oreyoudig.org/oregon). SIONS SHALL BE MADE BY THE CONTRACTOR TO KEEP ALL EXISTING UTILITIES VICE AND PROTECT THEM DURING CONSTRUCTION BY ANY MEANS SARY. ES, OR INTERFERING PORTIONS OF UTILITIES, THAT ARE ABANDONED IN SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO MPLISH THE WORK. THE CONTRACTOR SHALL FILL COMPLETELY THE NING PORTION(S) OF ABANDONED UTILITIES WITH CONTROLLED TRENGTH MATERIALS (CLSM) OR GROUT, PER COUNTY REQUIREMENTS. RAPHIC SURVEY BY HARPER HOUF PETERSON RIGHELLIS, INC. DATED IBER 7. 2021. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO FRUCTION. ACTOR IS RESPONSIBLE FOR SITE SAFETY, WAYS, MEANS, AND METHODS OF RUCTION. E CONTRACTOR'S RESPONSIBILITY TO VISIT AND VERIFY ALL EXISTING TIONS BEFORE START OF WORK. THE CONTRACTOR SHALL TAKE ALL SARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND NG CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLANS. LD ANY ERRORS OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT ED WITH THE WORK AFFECTED UNTIL REPORTED TO THE ENGINEER IN NG FOR CLARIFICATION OR CORRECTION. INTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITIES TO THE PUBLIC -OF-WAY AND EASEMENTS IDENTIFIED ON THE PLANS UNLESS WRITTEN SSION IS OBTAINED FROM THE PROPERTY OWNER. NTRACTOR SHALL NOTIFY RESIDENTS WITHIN THE PROJECT AREA A UM OF TWO BUSINESS DAYS PRIOR TO STARTING WORK, PROVIDING DOOR RS LISTING THE CONTRACTOR'S CONTACT INFORMATION. RVEY MONUMENTS ON THE SUBJECT SITE, OR THAT MAY BE SUBJECT TO RBANCE WITHIN THE CONSTRUCTION AREA. OR THE CONSTRUCTION OF ANY TE IMPROVEMENTS SHALL BE ADEQUATELY REFERENCED AND PROTECTED FO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. IF THE SURVEY
- MENTS ARE DISTURBED, MOVED, RELOCATED, OR DESTROYED AS A RESULT CONSTRUCTION, THE PROJECT SHALL, AT IT'S COST, RETAIN THE SERVICES ROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF OREGON TO RE THE MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY YS AS REQUIRED BY OREGON STATE LAW. A COPY OF ANY RECORDED Y SHALL BE SUBMITTED TO COUNTY STAFF.
- & REMOVE EXISTING TREES AND VEGETATION WHERE IT IS IN CONFLICT OR IS IMPACTED BY PROPOSED IMPROVEMENTS.

				DESIGNED:	
S CO.					MD
~ 2				DRAWN:	
T					MD
AL LUD				CHECKED:	NS
\sim	DATE	NO.	DESCRIPTION	DATE	
			R E V I S I O N S	DATE.	01.30.2023





VERTICAL DATUM

ELEVATION DATUM: NGVD29 BASED ON MULTIPLE AVERAGED GPS OBSERVATIONS UTILIZING THE OREGON REAL TIME GPS NETWORK (ORGN)

HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD83 (ADJUSTMENT 1991) EXPRESSED AS CENTRAL OREGON COORDINATE SYSTEM (COCS), ESTABLISHED FROM MULTIPLE AVERAGED GPS OBSERVATIONS.

BASIS OF BEARINGS

CENTRAL OREGON COORDINATE SYSTEM

CONSTRUCTION ACCESS & TRAFFIC CONTROL NOTES

- 1. CONTRACTOR SHALL PREPARE AND SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS FOR COUNTY REVIEW AND APPROVAL PRIOR TO THE START OF WORK. ALL TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE 2009 EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND OREGON SUPPLEMENT, AND 2011 OTTCH.
- THE CONTRACTOR SHALL KEEP THE WORK AREAS IN A NEAT AND SIGHTLY 2. CONDITION FREE OF DEBRIS AND LITTER FOR THE DURATION OF THE PROJECT.
- 3. ALL DISTURBED AREAS INCLUDING ROADS AND ACCESS ROUTES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AT NO COST TO OWNER.
- 4. CONTRACTOR SHALL MONITOR TEMPORARY TRAFFIC CONTROL DEVICES AND REVISE BASED ON ON-SITE WORK CONDITIONS, OR AS DIRECTED BY THE ENGINEER OR COUNTY.
- 5. CONTRACTOR SHALL PROVIDE NOTIFICATION TO EMERGENCY SERVICES AND AFFECTED RESIDENCES PRIOR TO CHANGES IN TRAFFIC PATTERNS.
- 6. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.
- 7. CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

SHEET INDEX

- CO.0 COVER SHEET CO.1 - NOTES
- CO.2 SHEET INDEX
- **C1.0 TYPICAL SECTIONS**
- C1.1 CONSTRUCTION DETAILS
- C1.2 WATER DETAILS
- C1.3 WATER DETAILS
- C2.0 EXISTING CONDITIONS & DEMO PLAN
- C3.0 GEOMETRY PLAN
- C4.0 PLAN & PROFILE WEST LEG
- C4.1 PLAN & PROFILE NORTH LEG
- C4.2 PLAN & PROFILE EAST LEG
- C4.3 PLAN & PROFILE NORTHWEST FLOWLINE
- C4.4 PLAN & PROFILE SOUTH FLOWLINE
- C4.5 PLAN & PROFILE EAST FLOWLINE
- C5.0 OVERALL GRADING & ESC PLAN
- C6.0 GRADING DETAILS SITE MAP
- C6.1 WEST LEG GRADING DETAILS SPLITTER ISLAND
- C6.3 NORTH LEG GRADING DETAILS SPLITTER ISLAND
- C6.5 EAST LEG GRADING DETAILS SPLITTER ISLAND
- C6.7 INNER CIRCLE GRADING DETAILS
- L1.0 LANDSCAPE PLAN

SS-1 - SIGNING AND STRIPING LEGEND SS-2 - SIGNING AND STRIPING PLAN SS-3 - SIGNING AND STRIPING PLAN SS-4 - EXISTING SIGN DETAILS SS-5 - PROPOSED SIGN DETAILS SS-6 - SIGN & POST DATA TABLE SS-7 - SIGN & POST DATA TABLE IL-1 - ILLUMINATION LEGEND IL-2 - ILLUMINATION PLAN IL-3 - ILLUMINATION PLAN TC-1 - STAGE I CONSTRUCTION TC-2 - STAGE II CONSTRUCTION

- TC-3 STAGE III (PHASE 1) CONSTRUCTION
- TC-4 STAGE III (PHASE 2) CONSTRUCTION
- TC-5 STAGE II & III CONSTRUCTION DETOUR

ODOT RD300 -	TRENCH BACKFILL, BEDDING, PIPE ZONE & MULTIPLE
ODOT RD364 -	CONCRETE INLETS
ODOT RD365 -	INLET FRAMES & GRATES
ODOT RD810 -	BARBED & WOVEN WIRE FENCES
ODOT RD1010 -	INLET PROTECTION
ODOT RD1032 -	SEDIMENT BARRIER, TYPE 8
ODOT RD1040 -	SEDIMENT FENCE
ODOT TM200 -	SIGN INSTALLATION DETAILS
ODOT TM211 -	SIGNING DETAILS (US & INTERSTATE ROUTE SHIELDS)
ODOT TM300 -	ILLUMINATION CONTROL CABINETS
ODOT TM471 -	TRENCHING & CONDUIT INSTALLATION
ODOT TM472 -	JUNCTION BOXES & HAND HOLES
ODOT TM482 -	CONTROLLER CABINET & SERVICE CABINET FOUNDAT
ODOT TM500 -	PAVEMENT MARKING STANDARD DETAIL BLOCKS
ODOT TM501 -	PAVEMENT MARKING STANDARD DETAIL BLOCKS
ODOT TM503 -	PAVEMENT MARKING STANDARD DETAIL BLOCKS
ODOT TM530 -	INTERSECTION PAVEMENT MARKINGS (CROSSWALK,
ODOT TM600 -	MULTIPOST BREAKAWAY SIGN SUPPORTS NOTES
ODOT TM601 -	MULTIPOST BREAKAWAY SIGN SUPPORTS DETAILS
ODOT TM602 -	TRIANGULAR BASE BREAKAWAY MULTIDIRECTIONAL
ODOT TM635 -	BREAKAWAY SIGN & LUMINAIRE SUPPORTS - SUPPOR
ODOT TM671 -	3 SECOND GUST WIND SPEED MAP
ODOT TM676 -	SIGN ATTACHMENTS
ODOT TM681 -	PERFORATED STEEL SQUARE TUBE (PSST) SIGN SUPPO
ODOT TM688 -	PERFORATED STEEL SQUARE TUBE (PSST) SLIP BASE F
ODOT TM800 -	TABLES, ABRUPT EDGE & PCMS DETAILS
ODOT TM820 -	TEMPORARY BARRICADES
ODOT TM821 -	TEMPORARY SIGN SUPPORTS
ODOT TM822 -	TEMPORARY SIGN SUPPORTS
ODOT TM841 -	INTERSECTION WORK ZONE DETAILS



SIGNED ITES MD RAWN: MD CHECKED: NS DATE NO. DESCRIPTION DATE 01.30.2023 R E V I S I O N S

Harper **HHPR** Houf Peterson Righellis Inc. 250 NW Fanklin Ave, Suite 404, Bend, OR 97703 phone: 541.318.1161 www.hhpr.com fax: 541.318.1141

SHEET INDEX DESCHUTES MARKET RD / HAMEHOOK RD INTERSECTION IMPROVEMENT DESCHUTES COUNTY, OREGON

ODOT TM850 - 2-LANE, 2-WAY ROADWAYS

ORT INSTALLATION OUNDATION

SLIP BASE DESIGN RT LOCATION GUIDELINES

, STOP BAR & BIKE LANE STENCIL)

FION DETAILS

INSTALLATIONS





RESTRAINED	LENGTH FOR DUCTILE RON PIPE			
HORIZONTAL BENDS MIN. RESTRAINED LENGTH FROM END OF BEND				
3" - 45°	5'			
4" - 45°	7'			
4" - 90°	15'			
8" - 90°	27'			
12" - 11.25°	4'			
12" - 22.5°	8'			

RESTRAINED	LENGTH FOR RON PIPE
REDUCERS	MIN RESTRAINED LENGTH
8" x 3"	50'
8" x 4"	45'

8" x 3"	50'				
8" x 4"	45'				
12" x 4"	76'				
ESTRAINED	LENGTH FOR				
DUCTILE IRON PIPE					

RESTRAIN	ED LENGTH FOR DUC	TILE IRON PIPE	
VERTICAL BENDS	MIN RESTRAINED LENGTH UPPER SIDE (LU)	MIN RESTRAINED LENGTH LOWER SIDE (LL)	++ <u>,</u>
12" - 45°	37'	8'	

RESTRAINED LENGTH FOR DUCTILE IRON PIPE								
TEES	MIN RESTRAINED LENGTH ALONG RUN (LR)**	MIN RESTRAINED LENGTH ALONG BRANCH (LB)						
12" x 4" 2' 2'								
12" x 8" 6' 13'								
12" x 12" 12' 22'								

UTES CO				DESIGNED:
2				DRAWN:
×				CHECKED:
	DATE	NO.	DESCRIPTION R E V I S I O N S	DATE: 01

POWER METER BOXES, WATER

METER BOXES AND SECURITY

BOLLARDS; PROTECT IN PLACE

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: 1" = 80

☆

TAX LOT 171214BD00100

DESCHUTES COUNTY, OREGON

CONSTRUCTION NOTES:

	1	CONSTRU SECTION	CT AC PAVEMEI DETAILS ON SHE	NT SECTIO	ON PER TYPIC DEPTH VARIE	AL S.
	2	CONSTRU CONCRET * <u>NOTE:</u> T	CT LOW-PROFIL E CURB PER DET RUCK APRON, 0'	E MOUN ⁻ AIL ON S ' LIP.	TABLE HEET C1.1.	
R PIPE.	3	CONSTRU CURB PEF	CT HIGH-STREN	GTH CON ET C1.1.	CRETE	
RKET RD) AIN. ALL 1 - 4" 90° BEND ³ ;	4	CONSTRU PER DETA C6.1 FOR	CT CONCRETE S IL ON SHEET C1. DETAILED GRAD	PLITTER I 1. SEE SH DING PLAN	SLAND IEET N.	
ONNECTION. RKET RD)	5	CONSTRU PER TYPIC SHEET C1	CT AGGREGATE CAL SECTION DE .0. WIDTH NOTE	SHOULD FAILS ON D ON PL	ER AN.	
NORTH LEG; ENTION WEST.	6	CONSTRU MOUNTA SECTION	CT 8" STAMPED BLE TRUCK APRO DETAIL ON SHEE	CONCRE ON PER T T C1.0.	TE YPICAL	
(KET RD)	7	CONSTRU	CT LANDSCAPEI T L1.0 FOR LANE	D CENTER DSCAPING	ISLAND. PLAN.	
ARKET RD) 45° BENDS ³ ; 7 LF	8	PROPOSE C4.3-C4.5	D CATCH BASIN. FOR MORE INF	SEE SHEI ORMATIC	ETS IN.	
STING 3" WATER NTRACTOR TO ICE)	9	CONSTRU PER DETA 6.1-6.3 FC	CT CONCRETE B IL ON SHEET C1. DR DETAILED GR	ICYCLE RA 1. SEE SH ADING PL	AMP IEETS .AN.	
RKET RD) CEED	10	CONSTRU SWALE PE SHEET C5	CT WATER QUA R DETAIL ON SH .0 FOR MORE IN	LITY DRA IEET C1.1 FORMAT	INAGE . SEE ION.	
RKET RD) RKET RD)	(11)	CONSTRU	CT AC DRIVEWA	Y APRON	I. ADING PLAN.	
" 45° VERTICAL BENDS; STING 12" WATER MAIN.	(12)	CONSTRU	CT BARBED WIR C1.1. STA 7+73	E FENCE	PER DETAIL A 10+00.00	
URING COID CANAL CT TO EXSITING 12" " WATER PIPE.	13	CONSTRU PER DETA	CT CURB CUT A IL ON SHEET C1.	T LOWPO 1.	INT	
ARKET RD) ARKET RD)	N	DTES:			-	
IARKET RD) =))		CONSTRU STANDAR CONTRAC	CTED PER AVIO DS AND SPECIFI TOR TO COORD	N WATER CATIONS.	COMPANY	
EMBLIES; NORTH. FAST.		SHUT-OFF		ATER CO	MPANY.	
	2. 3.	3. RESTRAIN FITTINGS PER TABLE ON SHEET C1.2.				
			10	ED PRO	Fr	
——— W ——— (P) W	ATER/	MAIN	GISTER N		ESSION	
——— W ——— (E) W	'ATER	MAIN		94,828	N F	
	O WA	TER MAIN		OREGOI		
			NICOL	¹ / _{15,2}	PERO	
% SUBMI	ΓT	AL	EXPIR	ES: 06	/30/24	
EST LEG				SHEET NO.		
)N I	MPRO	VEMENT		54.0	
, OREGON				JOB NO.	DC0-02	

	C5	10+89.12	5.2'L	3414.1	6 PT]
	C6	10+99.13	3.4'L	3414.0	3 PC		
	C7	11+00.26	4.2'L	3413.9	8 PRC	2	
	C8	11+17.46	3.0'L	3413.5	0 РСС	2	
	С9	12+30.58	3.0'L	3410.7	0 PRC	2	
	C10	12+33.58	0.0'	3410.7	3 MI	OPOINT	
	C11	12+30.58	3.0'R	3410.7	2 PCC	2	
	C12	11+98.43	3.0'R	3411.2	7 PT		
	C13	11+60.96	5.9'R	3412.2	2 PC		
· /	C14	11+06.99	4.7'R	3413.8	9 PRC		
	C15	10+98.73	3.6'R	3414.1	5 PRC		
	C16	10+97.84	2.4'R	3414.1	5 PT		
	C17	10+87.66	2.9'R	3414.3	0 PC		
==	C18	10+86.77	3.7'R	3414.3	3 PRC	2	
	C19	10+74.97	5.8'R	3414.6	9 PRC]
·		ABBREVIATIO	NS				
	GUT	GUTTER (BOTT	OM OF CL	JRB)			
IUTES	тс	ТОР ВАСК	OF CURB				
ELKD	FG	FINISHEE) GRADE				
<u> </u>	EG	EXISTING	GRADE				
	CL	CENTE	RLINE				
	ТР	TOP OF PA	AVEMENT				
	MATCH	MATCH E	EXISTING				
		_					
% S		10 20 ALE: 1" = 20'		ELCON MICON MICON	ED PR(94,828 0 MEGO 1/ 15, 7 4S G.	DFESSION P P P P P P P P P P P P P	
- SPLIT D INTE	TER ISL	and TION IMP	ROVE	MENT	SHEET NO.	C6.3	
, OREC	GON				JOB NO.	DC0-02	
					!		

ISLAND - C

OFFSET

2.5'R

9.9'L

10.9'L

6.4'L

#

C1

C2

C3

C4

STATION¹

10+71.27

10+71.74

10+73.15

10+88.35

GUTTER ELEVATION

3414.69

3414.54

3414.46

3414.16 PRC

DESCRIPTION

PRC

PRC

PRC

bok RD D9 4+45.65 3.0'L 3414.71 BC; PRC D10 4+48.65 0.0' 3414.85 BC; CL D11 4+45.65 3.0'R 3414.88 BC; PRC D12 4+00.00 3.0'R 3414.48 BC; PRC D13 3+55.36 9.2'R 3414.48 BC; PRC D14 3+35.74 13.5'R 3414.39 BC; LOW POINT D15 2+97.95 13.7'R 3415.03 BC; PCC D16 2+97.12 12.6'R 3415.05 BC; PT D17 2+87.52 13.2'R 3415.21 BC; PC D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D19 2+73.90 100 0F PAVEMENT MATCH MATCH EXISTING D10 0F PAVEMENT D15 00 0F PAV	$\frac{D9}{D10} \frac{4+45.65}{4+48.65} \frac{3.0'l}{3.0'R} \frac{3414.71}{3414.85} \frac{BC; PRC}{D10} \frac{1}{4+45.65} \frac{3.0'R}{3.0'R} \frac{3414.85}{3414.85} \frac{BC; PRC}{D11} \frac{1}{4+45.65} \frac{3.0'R}{3.0'R} \frac{3414.88}{3414.88} \frac{BC; PRC}{D12} \frac{1}{21} \frac{4+00.00}{3.0'R} \frac{3414.48}{3414.39} \frac{BC; LOW POINT}{D13} \frac{1}{3+55.36} \frac{9.2'R}{3414.48} \frac{3414.39}{BC; LOW POINT} \frac{1}{D15} \frac{2+97.95}{2+97.95} \frac{13.7'R}{3415.03} \frac{3414.39}{BC; LOW POINT} \frac{1}{D15} \frac{2+97.95}{2+97.95} \frac{13.7'R}{3415.03} \frac{3415.03}{BC; PCC} \frac{D16}{D16} \frac{2+97.12}{2+97.95} \frac{12.6'R}{3415.21} \frac{3415.21}{BC; PC} \frac{BC; PT}{D17} \frac{1}{2+87.52} \frac{13.2'R}{3415.23} \frac{3415.23}{BC; PRC} \frac{BC; PRC}{D19} \frac{1}{2+73.79} \frac{16.5'R}{3415.46} \frac{3415.46}{BC; PRC} \frac{C}{D19} \frac{1}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{D19} \frac{1}{2+73.79} \frac{1}{16.5'R} \frac{1}{3415.46} \frac{1}{BC; PRC} \frac{1}{D19} \frac{1}{2+73.79} \frac{1}{15.5'R} \frac{1}{2} \frac$							
$\frac{D10}{P} + 448.65 0.0' 3414.85 BC; CL D11 4445.65 3.0'R 3414.88 BC; PRC D12 4400.00 3.0'R 3414.88 BC; PRC D13 3+55.36 9.2'R 3414.48 BC; PRC D14 3+35.74 13.5'R 3414.39 BC; LOW POINT D15 2+97.95 13.7'R 3415.03 BC; PCC D16 2+97.12 12.6'R 3415.05 BC; PT D17 2+87.52 13.2'R 3415.21 BC; PC D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D10 2+73.79 16.5'R 3415$	$ \frac{D10}{P} \frac{4+48.65}{P} \frac{0.0'}{3414.85} \frac{3414.85}{P} \frac{BC; CL}{PC} \frac{D11}{P} \frac{4+45.65}{P} \frac{3.0'R}{P} \frac{3414.88}{P} \frac{BC; PC}{P} \frac{D12}{P} \frac{4+00.00}{P} \frac{3.0'R}{P} \frac{3414.48}{P} \frac{BC; PRC}{P} \frac{D13}{P} \frac{3+55.36}{P} \frac{9.2'R}{P} \frac{3414.48}{P} \frac{BC; PRC}{P} \frac{D14}{P} \frac{3+35.74}{P} \frac{13.5'R}{P} \frac{3414.39}{P} \frac{BC; LOW POINT}{D15} \frac{2+97.95}{P} \frac{13.7'R}{P} \frac{3415.03}{P} \frac{BC; PC}{P} \frac{D16}{P} \frac{2+97.12}{P} \frac{12.6'R}{P} \frac{3415.03}{P} \frac{BC; PC}{P} \frac{D16}{P} \frac{2+97.12}{P} \frac{12.6'R}{P} \frac{3415.23}{P} \frac{BC; PC}{P} \frac{D17}{P} \frac{2+87.52}{P} \frac{13.2'R}{P} \frac{3415.23}{P} \frac{BC; PC}{P} \frac{D19}{P} \frac{2+73.79}{P} \frac{16.5'R}{P} \frac{3415.46}{P} \frac{BC; PRC}{P} \frac{D19}{P} \frac{2+73.79}{P} \frac{16.5'R}{P} \frac{16.5'R}{P} \frac{3415.46}{P} \frac{BC; PRC}{P} \frac{D19}{P} \frac{16.5'R}{P} \frac{16.5'R}{P$		D9	4+45.65	3.0'L	34	14.71	BC; PRC
$\frac{D11}{2} \frac{4+45.65}{3.0'R} \frac{3414.88}{3414.88} \frac{BC; PCC}{BC} \frac{D12}{D12} \frac{4+00.00}{3.0'R} \frac{3414.68}{3414.48} \frac{BC; PRC}{BC} \frac{D13}{D13} \frac{3+55.36}{3+55.36} \frac{9.2'R}{9.2'R} \frac{3414.48}{3414.39} \frac{BC; LOW POINT}{D15} \frac{D14}{2+97.12} \frac{12.6'R}{13.5'R} \frac{3415.03}{3415.03} \frac{BC; PCC}{D16} \frac{D16}{2+97.12} \frac{12.6'R}{13.2'R} \frac{3415.05}{3415.05} \frac{BC; PT}{D17} \frac{D17}{2+87.52} \frac{13.2'R}{13.2'R} \frac{3415.21}{3415.23} \frac{BC; PCC}{D19} \frac{D17}{2+87.52} \frac{13.2'R}{3415.23} \frac{3415.23}{BC; PCC} \frac{D19}{D19} \frac{2+73.79}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{D19} \frac{D19}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{D19} \frac{D19}{2+73.79} \frac{ABBREVIATIONS}{16.5'R} \frac{BC}{2415.46} \frac{BC; PRC}{D19} \frac{D19}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{D19} \frac{D19}{2+73.79} \frac{D16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{D19} \frac{D19}{2+73.79} \frac{D10}{16.5'R} \frac{D10}{2415.46} \frac{D19}{2} \frac{D19}{2} \frac{D19}{2} \frac{D10}{2} D$	$\frac{D11}{2} \frac{4+45.65}{3.0'R} \frac{3414.88}{3414.68} \frac{BC; PCC}{BC} \\ \frac{D12}{D12} \frac{4+00.00}{3.0'R} \frac{3414.68}{3414.48} \frac{BC; PRC}{BC} \\ \frac{D13}{D13} \frac{3+55.36}{3+55.36} \frac{9.2'R}{9.2'R} \frac{3414.48}{3414.39} \frac{BC; LOW POINT}{D15} \\ \frac{D14}{2+97.95} \frac{13.7'R}{13.5'R} \frac{3415.03}{3415.03} \frac{BC; PCC}{D16} \\ \frac{D16}{2+97.12} \frac{12.6'R}{12.6'R} \frac{3415.05}{3415.23} \frac{BC; PC}{D17} \\ \frac{D17}{2+87.52} \frac{13.2'R}{13.2'R} \frac{3415.23}{3415.23} \frac{BC; PCC}{D19} \\ \frac{D18}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{D19} \\ \frac{D19}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{D19} \\ \frac{ABBREVIATIONS}{TC} \frac{FG}{FINISHED} \frac{FG}{FINISHED} \frac{FINISHED GRADE}{FG} \frac{EG}{EXISTING GRADE} \\ \frac{EG}{EXISTING GRADE} \frac{EG}{CL} \frac{EXISTING GRADE}{CL} \frac{FF}{FG} \frac{FINISHED GRADE}{FG} \frac{FINISHED GRADE}{FINISHED} \frac{FINISHED GRADE}{FG} \frac{FINISHED GRADE}{FINISHED} \frac{FINISHED GRADE}{FG} \frac{FINISHED GRADE}{FINISHED} \frac{FINISHED GRADE}{FINISHED} \frac{FINISHED GRADE}{FINISHED} FINISHED GRA$		D10	4+48.65	0.0'	34	14.85	BC; CL
D12 4+00.00 3.0'R 3414.68 BC; PRC D13 3+55.36 9.2'R 3414.48 BC; PRC D14 3+35.74 13.5'R 3414.39 BC; LOW POINT D15 2+97.95 13.7'R 3415.03 BC; PCC D16 2+97.12 12.6'R 3415.05 BC; PT D17 2+87.52 13.2'R 3415.21 BC; PC D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D19 2+73.79 16.5'R 3415.40 BC; PRC D10 2-48 C, 9 FF D10 2-48	$\frac{D12}{C} \frac{4+00.00}{3.0'R} \frac{3414.68}{3414.68} \frac{BC; PRC}{D13} \frac{D12}{3+55.36} \frac{9.2'R}{9.2'R} \frac{3414.48}{3414.39} \frac{BC; LOW POINT}{D13} \frac{D12}{2+97.95} \frac{13.5'R}{3415.03} \frac{3414.39}{BC; LOW POINT} \frac{D15}{D15} \frac{2+97.95}{2+97.95} \frac{13.7'R}{3415.03} \frac{3415.03}{BC; PCC} \frac{D16}{D16} \frac{2+97.12}{2+87.52} \frac{13.2'R}{3415.23} \frac{3415.21}{BC; PC} \frac{D17}{D17} \frac{2+87.52}{2+87.52} \frac{13.2'R}{3415.23} \frac{3415.23}{BC; PCC} \frac{D19}{D19} \frac{2+73.79}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{BC; PRC} \frac{D19}{D19} \frac{2+73.79}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{2} \frac{BC; PRC}{D19} \frac{D19}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{2} \frac{BC; PRC}{D19} \frac{D19}{2+73.79} \frac{16.5'R}{16.5'R} \frac{16.5'R}{2} \frac{16}{2} \frac{16}{2} \frac{16}{2} \frac{17}{2} $	1	D11	4+45.65	3.0'R	34	14.88	BC; PCC
$\frac{D13}{3} \frac{3+55.36}{9.2'R} \frac{3414.48}{3414.48} \frac{BC; PRC}{D14}$ $\frac{D14}{3+35.74} \frac{13.5'R}{13.5'R} \frac{3414.48}{3415.03} \frac{BC; LOW POINT}{D15}$ $\frac{D15}{2+97.95} \frac{13.7'R}{3415.03} \frac{3415.05}{BC; PT}$ $\frac{D16}{2+97.12} \frac{12.6'R}{12.6'R} \frac{3415.05}{3415.23} \frac{BC; PC}{D19}$ $\frac{D17}{2+87.52} \frac{13.2'R}{3415.23} \frac{3415.21}{BC; PC}$ $\frac{D18}{D19} \frac{3+86.66}{2+73.79} \frac{16.5'R}{3415.46} \frac{3415.46}{BC; PRC}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{ABBREVIATIONS}{TC}$ $\frac{ABBREVIATIONS}{FG}$ $\frac{FG}{FINISHED GRADE}$ $\frac{CL}{CENTERLINE}$ $\frac{CL}{TOP BACK OF CURB}$ $\frac{FG}{FG}$ $\frac{FINISHED GRADE}{CL}$ $\frac{CL}{CENTERLINE}$ $\frac{FG}{T}$ $\frac{FINISHED GRADE}{CL}$ $\frac{FG}{FG}$ $\frac{FINISHED GRADE}{FG}$ $\frac{FG}{FINISHED GRADE}$ $\frac{FG}{FIN$	$\frac{D13}{3+55.36} \frac{9.2'R}{9.2'R} \frac{3414.48}{3414.48} \frac{BC; PRC}{D14}$ $\frac{D14}{3+35.74} \frac{13.5'R}{13.5'R} \frac{3414.39}{3415.03} \frac{BC; LOW POINT}{D15}$ $\frac{D15}{2+97.95} \frac{13.7'R}{3415.03} \frac{3415.05}{BC; PT}$ $\frac{D16}{2+97.12} \frac{12.6'R}{12.6'R} \frac{3415.05}{3415.23} \frac{BC; PC}{D1}$ $\frac{D17}{2+87.52} \frac{13.2'R}{3415.23} \frac{3415.23}{BC; PRC}$ $\frac{D19}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{D19}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{GUT}{GUTTER} (BOTTOM OF CURB)}{TC}$ $\frac{ABBREVIATIONS}{TC}$ $\frac{GUT}{GUTTER} (BOTTOM OF CURB)}{GC}$ $\frac{GUT}{GUTTER} (BOTTOM OF CURB)}{TC}$ $\frac{GG}{GU}$ $\frac{GUT}{GUTTER} (BOTTOM OF CURB)}{GUT}$ $\frac{GG}{GU}$ $\frac{GG}{$		D12	4+00.00	3.0'R	34	14.68	BC; PRC
D14 3+35.74 13.5'R 3414.39 BC; LOW POINT D15 2+97.95 13.7'R 3415.03 BC; PCC D16 2+97.12 12.6'R 3415.05 BC; PT D17 2+87.52 13.2'R 3415.21 BC; PC D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D19 2+73.79 16.5'R 3415.40 BC; PRC D10 2+73.79 16.5'R 3415.4	$\frac{D14}{D15} \frac{3+35.74}{2+97.95} \frac{13.5'R}{13.7'R} \frac{3414.39}{3415.03} \frac{BC; LOW POINT}{BC; PC}$ $\frac{D15}{D15} \frac{2+97.95}{2+97.12} \frac{12.6'R}{13.2'R} \frac{3415.05}{3415.05} \frac{BC; PT}{D17}$ $\frac{D17}{2+87.52} \frac{13.2'R}{13.2'R} \frac{3415.21}{3415.23} \frac{BC; PC}{D19}$ $\frac{D18}{2+73.79} \frac{16.5'R}{16.5'R} \frac{3415.46}{3415.46} \frac{BC; PRC}{D19}$ $\frac{ABBREVIATIONS}{GUT}$ $\frac{GUT}{GUTTER (BOTTOM OF CURB)}$ $\frac{FG}{FG} \frac{FINISHED GRADE}{EG}$ $\frac{CL}{CENTERLINE}$ $\frac{FG}{FF} \frac{FINISHED GRADE}{CL}$ $\frac{CL}{CENTERLINE}$ $\frac{FG}{TP} \frac{TOP OF PAVEMENT}{MATCH EXISTING}$ $\frac{FG}{SUBMITTAL}$ $\frac{FFD}{SALE 1'' = 20'}$ $\frac{FG}{SUBMITTAL}$ $\frac{FFD}{SOURCE} \frac{FG}{SUBMITTAL}$ $\frac{FFD}{SOURCE} \frac{FG}{SOURCE} \frac{FFC}{SOURCE}$ $\frac{FG}{SUBMITTAL}$ $\frac{FFD}{SOURCE} \frac{FG}{SOURCE} \frac{FFC}{SOURCE}$ $\frac{FG}{SUBMITTAL}$		D13	3+55.36	9.2'R	34	14.48	BC; PRC
$\frac{D15}{2+97.95} \frac{13.7'R}{3415.03} \frac{3415.03}{BC; PCC}$ $D16 \frac{2+97.12}{12.6'R} \frac{13415.05}{3415.21} \frac{BC; PC}{D17}$ $D17 \frac{2+87.52}{2+87.52} \frac{13.2'R}{3415.23} \frac{3415.21}{BC; PC}$ $D18 \frac{3+86.66}{14.2'R} \frac{14.2'R}{3415.23} \frac{3415.23}{BC; PRC}$ $D19 \frac{2+73.79}{16.5'R} \frac{15.5'R}{3415.46} \frac{3415.46}{BC; PRC}$ $\frac{ABBREVIATIONS}{GUT} \frac{GUTTER (BOTTOM OF CURB)}{TC} TOP BACK OF CURB}$ $FG FINISHED GRADE$ $EG EXISTING GRADE$ $CL CENTERLINE$ $TP TOP OF PAVEMENT$ $MATCH MATCH EXISTING$ $MATCH MATCH EXIST MATCH EXI$	D15 2+97.95 13.7'R 3415.03 BC; PCC D16 2+97.12 12.6'R 3415.05 BC; PT D17 2+87.52 13.2'R 3415.21 BC; PC D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D19 2+73.79 16.5'R 3415.40 BC; PRC D10 5 0,024 D10		D14	3+35.74	13.5'R	34	14.39	BC; LOW POINT
D16 2+97.12 12.6'R 3415.05 BC; PT D17 2+87.52 13.2'R 3415.21 BC; PC D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC C TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING D10 FAULT AND SCALE: 1" = 20' K SUBMITTAL SPLITTER ISLAND DINTERSECTION IMPROVEMENT C 66.5 () OREGON	D16 2+97.12 12.6'R 3415.05 BC; PT D17 2+87.52 13.2'R 3415.21 BC; PC D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC $\frac{ABBREVIATIONS}{GUT}$ GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING SCALE: 1" = 20' C SUBMITTAL SPLITTER ISLAND DINTERSECTION IMPROVEMENT T, OREGON DEVELOPMENT C G6.5		D15	2+97.95	13.7'R	34	15.03	BC; PCC
DIT 2+87.52 13.2'R 3415.21 BC; PC D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC U19 2+73.79 16.5'R 3415.46 BC; PRC U	D17 2+87.52 13.2'R 3415.21 BC; PC D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC U19 2+73.79 16.5'R 3415.46 BC; PRC U10 GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING U10 $U10$ $U10$ $U10$ $U10$ $U20$ $U10$ $U10$ $U20$ $U10$ $U10$ $U20$ $U10$ $U10$ $U20$ $U10$	/ 	D16	2+97.12	12.6'R	34	15.05	BC; PT
D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC ABBREVIATIONS GUT GUT ER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING MATCH EXISTING SCALE: 1" = 20' TOP OF PAVEMENT MATCH MATCH EXISTING SCALE: 1" = 20' CALE: 0 CONTEGON SCALE: 1" = 20' MATCH MATCH SCALE: 1" = 20' CALE: 0	D18 3+86.66 14.2'R 3415.23 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC D19 2+73.79 16.5'R 3415.46 BC; PRC ABBREVIATIONS GUT GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING SCALE: 1" = 20' CALE: 1" = 20' CALE: 1" = 20' CALE: 1" = 20' CL CENTERSECTION IMPROVEMENT TO OF DAVEMENT CG.55 CG.55 DEC DEC DEC DEC DEC DEC DEC DEC DEC DEC		D17	2+87.52	13.2'R	34	15.21	BC; PC
D19 2+73.79 16.5'R 3415.46 BC; PRC ABBREVIATIONS GUT GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OK RD SCALE: 1" = 20' K SUBMITTAL SPLITTER ISLAND C OREGON	D19 2+73.79 16.5'R 3415.46 BC; PRC ABBREVIATIONS GUT GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OKEGON SCALE: 1" = 20 CL SUBMITTAL SPLITTER ISLAND C OREGON C OREGON MOKEGON C OREGON C OREGON MOKEGON	·	D18	3+86.66	14.2'R	34	15.23	BC; PRC
ABBREVIATIONS GUT GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OK RD OK	ABBREVIATIONS GUT GUT GUT GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING MATCH MATCH EXISTING OREGON SCALE: 1" = 20 C SCALE: 1" = 20 C C C C C C C C C C C C C		D19	2+73.79	16.5'R	34	15.46	BC; PRC
ABBREVIATIONS GUT GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING CL CENTERLINE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OKRD CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OKRD CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OKRD CL CENTERLINE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OKREGON SCALE: 1" = 20' CL CENTERLINE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OKREGON SCALE: 1" = 20' MATCH CENTERLINE CL CENTERLINE CL CENTERLINE CL CENTERLINE CL CENTERLINE CL CENTERLINE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OKREGON MATCH CENTERLINE CL CENTERLINE MATCH MATCH EXISTING	ABBREVIATIONS GUT GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OREGON SCALE: 1" = 20' MOREGON F, OREGON MO	·]
GUT GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING MATCH MATCH EXISTING OK RD Image: Content of the second	GUT GUTTER (BOTTOM OF CURB) TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OK RD CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING OK BUBMITTAL SCALE: 1" = 20'		 	ABBREVIATIO	NS			
TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING	TC TOP BACK OF CURB FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING MATCH MATCH EXISTING OK RD Image: Classical strength of the strengt of the strength of the strengt of the strength of the s		GUT	GUTTER (BOTT	OM OF CL	JRB)		
FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING MATCH MATCH EXIST MAT	FG FINISHED GRADE EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING MATCH MATCH EXIST MAT		TC	TOP BACK	OF CURB			
EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING DOK RD Image: Contract of the state of the	EG EXISTING GRADE CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING DOK RD Image: Contract of the pavement of the paveme		FG	FINISHED	O GRADE			
CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING SPLITTER ISLAND MATCH EXISTING MATCH MATCH EXISTING	CL CENTERLINE TP TOP OF PAVEMENT MATCH MATCH EXISTING SPLITTER ISLAND MATCH EXISTING MATCH MATCH EXISTING	— -	EG	EXISTING	GRADE			
TP TOP OF PAVEMENT MATCH MATCH EXISTING DOK RD Imatch MATCH MATCH EXISTING Imatch MATCH EXISTING Imatch Imatch	Image: match Image: match <td< th=""><th></th><th>CL</th><th>CENTE</th><th>RLINE</th><th></th><th></th><th></th></td<>		CL	CENTE	RLINE			
MATCH MATCH EXISTING MATCH EX	MATCH MATCH EXISTING MATCH EX		TP	TOP OF PA	AVEMENT			
SPLITTER ISLAND () OREGON () OREGON	SPLITTER ISLAND () OREGON () OR	DOK RD	MATCH	MATCH E	EXISTING			
SPLITTER ISLAND DINTERSECTION IMPROVEMENT ', OREGON	SPLITTER ISLAND DINTERSECTION IMPROVEMENT 7, OREGON JOB NO. DCO-02	% SI	scal UBN	10 20 E: 1" = 20'		E OIN BEGIC	ERED Str C Str C A S C A S C A S C A S C A S S S S S S S S S S S S S	PROFESS ,828 EGON 5, 20 ¹⁹ G. SPERO 06/30/24
■ 1)(1)-(1)/		SPLITT) INTE 7, OREG	ER ISLA RSEC	AND TION IMP	ROVE	MEI		C6.5

GUTTER ELEVATION STATION¹ OFFSET DESCRIPTION # D1 2+70.30 13.1'R 3415.57 BC; PRC D2 2+71.10 7.8'L 3415.41 BC; PRC BC; PRC D3 2+72.45 8.8'L 3415.40 BC; PRC D4 2+87.90 5.0'L 3415.04 BC; PT D5 2+88.73 4.0'L 3415.04 BC; PC D6 2+98.72 2.1'L 3414.90 D7 2+99.73 3.0'L 3414.87 BC; PRC BC; LOW POINT D8 3+53.11 3.0'L 3414.23

ISLAND - D

		ABBREVIATIONS
	GUT	GUTTER (BOTTOM OF CURB)
	TC	TOP BACK OF CURB
	FG	FINISHED GRADE
0 2.5 5 10	EG	EXISTING GRADE
SCALE: 1" = 10'	CL	CENTERLINE
	ТР	TOP OF PAVEMENT
	MATCH	MATCH EXISTING
% SUBMITTAL	BEA.	OREGON 44,828 000 00 00 00 00 00 00 00 00
S - BIKE RAMPS D INTERSECTION IMPR(OVEM	ENT C6.6
(, OREGON		JOB NO. DC0-02

l	NNER CIR	CLE (4	" MOUN	TABLE CURB) - E
	STATION ¹	OFFSET	GUTTER ELEVATION	DESCRIPTION
L	10+35.29	35.4'L	3414.70	LOW POINT
2	10+50.00	0.0'	3415.10	CL DESCHUTES MARKET RD
3	10+35.38	35.3'R	3415.49	
1	10+00.00	50.0'R	3415.88	CL HAMEHOOK RD
5	9+90.87	49.2'R	3415.97	HIGH POINT
5	9+64.64	35.4'R	3415.85	
7	9+50.00	0.0'	3415.68	CL DESCHUTES MARKET RD
3	9+77.96	44.9'L	3415.45	GRADE BREAK

			•	,
-	STATION ¹	OFFSET	GUTTER ELEVATION	DESCRIPTION
L	10+23.29	23.4'L	3415.28	LOW POINT
2	10+33.00	0.0'	3415.67	CL DESCHUTES MARKET RD
3	10+23.35	23.3'R	3416.06	
1	10+00.00	33.0'R	3416.46	CL HAMEHOOK RD
5	9+93.97	32.4'R	3416.55	HIGH POINT
5	9+76.67	23.3'R	3416.42	
7	9+67.00	0.0'	3416.26	CL DESCHUTES MARKET RD
3	9+85.45	29.6'L	3416.02	GRADE BREAK

	ABBREVIATIONS
Γ	GUTTER (BOTTOM OF CURB)
	TOP BACK OF CURB
	FINISHED GRADE
	EXISTING GRADE
	CENTERLINE
	TOP OF PAVEMENT
СН	MATCH EXISTING

OB NO.

DC0-02

2. 3" MOUNTABLE CURB FOR TRUCK APRON WITH 0" LIP. SEE DETAIL ON SHEET C1.1.

3. 7" HIGH-STRENGTH CURB. SEE DETAIL ON SHEET C1.1

100% SUBMITTAL

CHUTES COL				 DESIGNED: DRAWN:	KAI TEAM			SIGNING AND STRIPIN
	DATE NO	R E V	DESCRIPTION	 CHECKED: DATE:	KAI TEAM	& ASSOCIATES	DE	ESCHUTES MARKET RD / HAMEHOOK R DESCHUTES COUNT

SIGNING AND STRIPING LEGEND DESCHUTES MARKET RD/HAMEHOOK RD IMPROVEMENTS

1. All signage and pavement marking shall conform to the requirements and specifications of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.) latest edition, the Oregon supplement of the M.U.T.C.D., the Oregon Standard Specifiations for Construction,

2. All pre-markings for pavement markings and striping, as well as signs locations shall be approved by the Engineer prior to final

Varies - See Table on Plan Sheet

CHUTES COCE		DESIGNED: KAI TEAM DRAWN: KAI TEAM CHECKED: KAI TEAM	KITTELSON & ASSOCIATES	SIGNING AND STRIPI
\checkmark	DATE NO. DESCRIPTION R E V I S I O N S	DATE: 12.1.2022	ASSOCIATES	DESCHUTES COUNTY

Spe	ed Reduction Transverse Bar Space	cing
Leg	Station	Spacing
Deschutes	4+10 to 6+10	25'
Market Rd	6+10 to 7+10	20'
west Leg	7+10 to 8+10	15'
Deschutes	12+33 to 13+33	15'
Market Rd	13+33 to 14+33	20'
North Leg	14+33 to 16+83	25'
	4+48 to 5+48	15'
Hamehook Rd East Leg	5+48 to 6+48	20'
-	6+48 to 8+48	25'

Sign 9

Sign 6

DESIGNED: KAI TEAM EXISTING SIGN DETAILS DRAWN: KITTELSON & ASSOCIATES KAI TEAM **DESCHUTES MARKET RD / HAMEHOOK RD INTERSECTION IMPROVEMENT** CHECKED: KAI TEAM DATE NO. DESCRIPTION DESCHUTES COUNTY, OREGON DATE: 12.1.2022 REVISIONS

Sign 3

EXISTING SIGN DETAILS DESCHUTES MARKET RD / HAMEHOOK RD INTERSECTION IMPROVEMENTS

SIGN & POST DATA TABLE DESCHUTES MARKET RD / HAMEHOOK RD INTERSECTION IMPROVEMENTS

SIGN &	POST	DATA	TARIE	

			SIGN & FOST DATA TABLE																															
SIGN	SIGN LOCATION		(FUELONIE	SU	B-		COLO	DR 1/			SIGN								TYP	OF SU	PPORT	Г								POST		FOOT	ING	REMARKS
NO.	(TM200-TM201,	SIGN DIN	IENSIONS	STRA	ATE BA	CKGROUND	D	LEGEN	ID	LEGEND	NO.		8)	~		-									н		SI (T	ECON M67	NDARY SIGN 6 & TM678)	SIZE	LENGTH	LOCATION 3/	MIN. DEPTH	
	TM635)	WIDTH	HEIGHT	PLYWOOD SHEFT ALIJIMINIJM	EXTRUDED ALUM.	ASTM TYPE III OF TYPE IV ASTM TYPE IX OR TYPE XI	ASTM TYPE III OF TYPE IV	ASTM TYPE IX OR TYPE XI	NON-REFLECTIVE	PERMANENT DEMOUNTABLE	2/ [1M230-1M233]	WOOD POST (TM670-TM671,TM676)	5Q. 1UBE 5IGN 5UPPORI (1M6. TM676, TM681, TM687-TM68	TRIANGULAR BASE BREAKAWA (TM602) H - FRAME (TM602)	MULTI-POST BREAKAWAY (TM220, TM600-TM601)	STAINLESS STEEL CLAMP (SSC) (TM677)	SIGNAL POLE MOUNT (TM680)	MAST ARM SIGN MOUNT (TM679)	BRIDGE STRUCTURE MOUNT (Refer to Bridge Drawing)	CANTILEVER \ BUTTERFLY (Refer to Bridge Drawing)	SIGN BRIDGE (Refer to Bridge Drawing)	EXIT NUMBER SIGN SUPPORT (TM220, TM225)	ROUTE MARKER FRAME (TM678)	MILE POST MARKER POST (TM221-TM222)	CROSSWALK CLOSURE SUPPOR (TM240)	VERTICAL SIGN MOUNTS ON EXISTING STRUCTURES	CUSTOM VARIABLE SUPPORT	C 4X7.25	LENGTH	(BASED ON ESTIMATED LENGTH)	(MUST BE FIELD VERIFIED)	<u></u>	<u>5</u> /	
6	"DM" 13+58.32	(24")	(30")								6		~																	2 1/2" x 12GA	20'		3'-0"	Anchor: TS 3" x 3" (7GA) 3'
	-																																	Re-install Existing Sign on Post
8a	"H" 6+07.23	(24")	(24")								8a		~																	2 1/2" x 12GA	16'		3'-0"	Anchor: TS 3" x 3" (7GA) 3'
8b	-	(24")	(18")								8b								_															Mount Below Sign #8a
	-																																	
101	"DM" 9+70.74	30"	24"	1	1	N			BK	1	101		1																	2 1/2" x 12GA	18'		3'-0"	Anchor: TS 3" x 3" (7GA) 3', Solar Powered LED Border
	-																																	
101	"DM" 10+19.18	30"	24"	1	1	N			BK	1	101		~																	2 1/2" x 12GA	18'		3'-0"	Anchor: TS 3" x 3" (7GA) 3', Solar Powered LED Border
	-																																	
101	"DM" 10+23.64	30"	24"	1	()	N			BK	~	101		1																	2 1/2" x 12GA	18'		3'-0"	Anchor: TS 3" x 3" (7GA) 3', Solar Powered LED Border
	-																																	
102	"DM" 9+18.35	36"	31.2"	1	e	R		W		~	102		~																	2 1/2" x 12GA	19'		3'-0"	Anchor: TS 3" x 3" (7GA) 3'
	-																																	
102	"DM" 9+25.07	36"	31.2"	1		R	-	W	+ +	1	102		1											-						2 1/2" x 12GA	19'		3'-0"	Anchor: TS 3" x 3" (7GA) 3'
	-			++			+													-				<u> </u>	<u> </u>		\vdash	+						
102	"DM" 10+76 34	36"	31.2"			R	-	W	+ +	1	102		1							-				-						2 1/2" x 12GA	19'		3'-0"	Anchor: TS 3" x 3" (7CA) 3'
102	-	50	5112				+				102		-												<u> </u>		\vdash	+		L I/L A ILGA			5 0	
102	"DM" 10+92 24	26"	21.2"	1		D	-	14/	+ +	1	102		1											-						21/2" × 120 4	10'		2'-0"	Anchor: TS 2" x 2" (7CA) 2'
102	DM 10+ 32.34	30	51.2				-	vv	+ +		102														-					21/2 X 120A	15		3-0	Alciol: 13 3 X 3 (70A) 3
102	"H" 3 L PC CC	26"	21.2"				_	14/			102															-				21/2" × 120	10'		2' 0"	Anchor: TS 2" x 2" (7CA) 2
102	H 2+00.00	20	51.2		++	ĸ	_	vv	+ +	×	102		*											<u> </u>			\vdash	+		2 1/2 X 120A	19		5-0	AIICIUI. 15 5 X 5 (7GA) 5
	-					_	_		+ +															-	-								al all	
102	"H" 2+76.53	36"	31.2"			R	_	W		~	102		1											<u> </u>	<u> </u>		\vdash	+ +		2 1/2" x 12GA	19'		3'-0"	Anchor: TS 3" x 3" (7GA) 3'
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103	"DM" 5+00.00	30"	30"	1		Y		_	BK	~	103		~																	2 1/2" x 12GA	20'		3'-0"	Anchor: TS 3" x 3" (7GA) 3'
112	-	30"	8"			_		_			112											-						+			_			Mount Below Sign #103
	-																																	
103	"DM" 15+00.00	30"	30"	1		Y			BK	~	103		~																	2 1/2" x 12GA	20'		3'-0"	Anchor: TS 3" x 3" (7GA) 3'
112	-	30"	8"								112																							Mount Below Sign #103
	-																																	
103	"H" 6+00.00	30"	30"	1	1	Y			BK	~	103		~																	2 1/2" x 12GA	20'		3'-0"	Anchor: TS 3" x 3" (7GA) 3'
111	-	36"	8"								111																							Mount Below Sign #103
	-																																	
104	"DM" 12+33.33	7'-2"	3'-0"	*		5	W	V		~	104			1																TS 5x5x3/16	12.08'		4'-6"	
	-																																	
105	"DM" 7+00.00	7'-2"	3'-0"	1	(5	W	V		~	105			~																TS 5x5x3/16	12.08		4'-6"	
105a		24"	12"	~	1	N			BK	~	105a																							Mount Below Sign #105
105b		24"	12"	1	1	N			BK	1	105b																\vdash	+						Mount Below Sign #105a
105c		24"	24"	~	1	N			BK	~	105c																	+						Mount Below Sign #105b
105d		21"	15"	1	1	N	-		BK	1	105d													<u> </u>	<u> </u>		\vdash							Mount Below Sign #105c
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1/ BK=BLACK BL=BLUE BR=BROWN

G=GREEN

O=ORANGE

P=PURPLE

W=WHITE Y=YELLOW

RB=RED-BLUE

YG=FLOURESCENT YELLOW-GREEN

R=RED

FY=FLUORESCENT YELLOW

3/ DISTANCE FROM EDGE OF TRAVEL LANE, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM600, TM602, AND TM635

NOTE: L,C,R ARE LOCATIONS

OF POSTS FACING THE SIGN.

2/

L = LEFT POST

C = CENTER POST

R = RIGHT POST

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 & POST DATA TABLE DESCHUTES MARKET RD / HAMEHOOK RD INTERSECTION IMPROVEMENTS REMARKS

SIGN & POST DATA TABLE

												SIGILATOST DATA TABLE																						
SIGN	SIGN LOCATION			SUB	-		COLO	R <u>1</u> /			SIG	N							TY	PE OF S	UPPOR	т								POST		FOO	TING	
NO.	<u>4</u> / (TM200-TM201,	SIGN DIM	MENSIONS	STRA	TE BA	ACKGROUN	ND	LEGEN	ID	LEG	END NC		,11,	V.		_									КТ			SEC C	NDARY SIGN 76 & TM678)	SIZE	LENGTH	LOCATION 3/	MIN. DEPTH	
	TM635)	WIDTH	HEIGHT	PLYWOOD SHEET ALUMINUM	EXTRUDED ALUM.	ASTM TYPE III OF TYPE IV ASTM TYPE IX OR TYPE XI	ASTM TYPE III OF TYPE IV	ASTM TYPE IX OR TYPE XI	NON-REFLECTIVE	PERMANENT	DEMOUNTABLE (TM230-TM233)	WOOD POST	(I.Mo.VU-I.Mo.VI,I.Mo.Vo) SQ, TUBE SIGN SUPPORT (TM6: TM6.76 TM6.81 TM6.87_TM6.8	TRIANGULAR BASE BREAKAWA (TM602)	H - FRAME (TM602) MULTI-POST BREAKAWAY (TM220 TM600-TM601)	STAINLESS STEEL CLAMP (SSC) (TM677)	SIGNAL POLE MOUNT (TM680)	MAST ARM SIGN MOUNT (TM679)	BRIDGE STRUCTURE MOUNT (Refer to Bridge Drawing)	CANTILEVER \ BUTTERFLY (Refer to Bridge Drawing)	SIGN BRIDGE (Refer to Bridge Drawing)	EXIT NUMBER SIGN SUPPORT (TM220, TM225)	ROUTE MARKER FRAME (TM678)	MILE POST MARKER POST	CROSSWALK CLOSURE SUPPOR	(TM240) VERTICAL SIGN MOUNTS	ON EXISTING STRUCTURES CUSTOM VARIABLE SUPPORT	C 4X5.4 C 4X7 25	LENGTH	(BASED ON ESTIMATED LENGTH)	(MUST BE FIELD VERIFIED)		<u>5</u> /	
106	"H" 4+51.40	5'-0"	3'-0"	1		G	W			1	10	6		1																TS 5x5x3/16	12.08'		4'-6"	
106a		24"	24"	1	1	BL	W			1	106	ā																						Mount Below Sign #106
106b		21"	15"	1	1	W			BK	~	106	5b																						Mount Below Sign #106a
106c		24"	12"	~	1	W			BK	1	100	5C																						Mount Below Sign #106
106d		24"	12"	1	1	W			BK	1	106	id																						Mount Below Sign #106c
106e		24"	24"	1	1	W			BK	~	106	ie																						Mount Below Sign #106d
106f		21"	15"	1	1	W			BK	~	100	ōf																						Mount Below Sign #106e
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107	"H" 2+74.73	6-'6"	1'-6"	1	1	G	W			~	10	7	1											_	_		_			2 1/2" x 12GA	17'		3'-0"	Anchor: TS 3" x 3" (7GA)
100	"DM" 0 . 00 07	71.6"	21 6"			_		_			10	_				-	-					-			_	_	_	\vdash	_	2.1.(2)	2.71		21 01	Angle To all and (Total)
108	DM 9+23.27	7-6	10	~		G	W		_	~	10	8	~			-	-	-	-					_	_	_	_			21/2 X 126A	17		3'-0"	Anchor: 15 3 X 3 (/GA)
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108	DM 10+75.01	7-0	1-0			6	VV	_	-	~	10	•	~	_		-	-	-	-			-		-	-	-	-		-	2 1/2 X 120A	17		5-0	ATICHOF. 15 5 X 5 (7GA)
109	"DM" 8+71 48	48"	24"	1		v			RK	1	10	•	1		$\left \right $	+	-						<u> </u>	+	+		+	\vdash		21/2" × 12CA	17'		3'-0"	Anchor: TS 3" x 3" (7CA)
105	-	40	24						DI		10	-				+	-						<u> </u>	-	-		+	\vdash	-	21/2 11204	17		3-0	AICIOI. 133 X 3 (70A)
110	"DM" 8+33.62	24"	30"	1	1	w	-	+	BK	1	11	0	~		+	+	-	-				-		-	+	-	+	\vdash		2 1/2" x 12GA	18'		3'-0"	Anchor: TS 3" x 3" (7GA)
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110	"DM" 12+30.31	24"	30"	1		w	-	+	BK	1	11	0	1			+	+	1	1			-		+	+	+	+	\vdash		2 1/2" x 12GA	18'		3'-0"	Anchor: TS 3" x 3" (7GA)
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110	"H" 4+44.88	24"	30"	1	1	W			BK	~	11	0	1																	2 1/2" x 12GA	18'		3'-0"	Anchor: TS 3" x 3" (7GA)
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BK=BLACK

BL=BLUE BR=BROWN FY=FLUORESCENT YELLOW G=GREEN O=ORANGE P=PURPLE R=RED RB=RED-BLUE W=WHITE Y=YELLOW YG=FLOURESCENT YELLOW-GREEN

2/

3/

L = LEFT POST

C = CENTER POST

R = RIGHT POST

DISTANCE FROM EDGE OF TRAVEL LANE, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM600, TM602, AND TM635

NOTE: L, C, R ARE LOCATIONS

OF POSTS FACING THE SIGN.

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.

LEGEND

(FDN) Install street light sleeve for embedded street light pole

 $\begin{pmatrix} JB \\ 1 \end{pmatrix}$ Install 17"x10"x12" (min. dimension) precast concrete junction box. Cover to be marked "Street Lights".

Install CEC-furnished street light pole number (N). Shall be HAPCO embedded aluminum alloy light pole (Model No. RTA25C7BEM18) or approved equal. Install CEC-furnished American Electric Lighting street light (Model: ATB0 SERIES LED 1300MA TYPE 3 3000K CCT) or approved equal. See "Street Light Pole Schedule."

PL Install poly pull line (500# minimum strength).

(s) Install (S) inch electrical grade sch 40 PVC conduit.

(PS) 2 Power source for 120/240 volt, single phase.

Post Install post mounted type B control cabinet (See TM 300)

			STRE	EET LIGHT POLE	SCHEDULE				
POLE NO.	STREET	STATION	OFFSET FROM ROADWAY CENTERLINE	OFFSET FROM EDGE OF PAVEMENT	LUMINAIRE ARM LENGTH (FT)	LAMP	LUMINAIRE MOUNTING HEIGHT (FT)	TYPE	NOTES
1	Deschutes Market Rd	6+63.00	24.57' Rt.	5.3'	8'	LED	30'	III	126 Watts
2	Deschutes Market Rd	8+12.00	35.00' Lt.	12.6'	8'	LED	30'	III	126 Watts
3	Deschutes Market Rd	8+89.33	43.08' Rt.	14.0'	8'	LED	30'	III	126 Watts
4	Deschutes Market Rd	9+11.93	52.58' Lt.	14.0'	8'	LED	30'	III	126 Watts
5	Hamehook Rd	2+71.33	55.28' Rt.	14.0'	8'	LED	30'	III	126 Watts
6	Deschutes Market Rd	10+26.56	79.69' Lt.	14.0'	8'	LED	30'	III	126 Watts
7	Hamehook Rd	3+02.60	39.37' Lt.	14.0'	8'	LED	30'	III	126 Watts
8	Deschutes Market Rd	11+04.23	40.05' Lt.	14.0'	8'	LED	30'	III	126 Watts
9	Deschutes Market Rd	10+76.51	43.05' Rt.	14.0'	8'	LED	30'	III	126 Watts
10	Deschutes Market Rd	13+43.12	25.08' Lt.	9.9'	8'	LED	30'	III	126 Watts
11	Deschutes Market Rd	12+16.78	26.55' Rt.	5.5'	8'	LED	30'	III	126 Watts
12	Hamehook Rd	4+26.32	26.53' Rt.	5.5'	8'	LED	30'	III	126 Watts
13	Hamehook Rd	5+38.14	23.38' Lt.	5.5'	8'	LED	30'	III	126 Watts

INTERSECTION LIGHT LEVEL SUMMARY

INTERSECTION	CLASSIFICATION		LIGHT LEVEL (fc)	UNIFORMITY (avg/min)	LIGHT LOSS FACTOR	BUG RATING
Deschutes Market Road/	Major/Collector	Target	<u>></u> 1.4 fc	≤ 3.0 : 1	0.95	
Hamehook Road	inajor/collector	Design	1.7 fc	1.7 : 1	0.85	B2 00 G2

Note: Target Values based on Table 12-4, Chapter 12 - ANSI/IES RP8-18

ROADWAY LIGHT LEVEL SUMMARY						
ROADWAY	CLASSIFICATION, PEDESTRIAN CONFLICT		LIGHT LEVEL	AVERAGE UNIFORMITY	LIGHT LOSS FACTOR	BUG RATING
Deschutes Market Rd- West Leg	Major, Low	Target	<u>≥</u> 0.8 fc	≤ 5.5 : 1	0.85	B2 U0 G2
		Design	1.2 fc	3.0 : 1	0.85	B2 U0 G2
Deschutes Market Rd- North Leg	Major, Low	Target	<u>></u> 0.8 fc	≤ 5.5 : 1	0.85	B2 U0 G2
		Design	1.3 fc	2.1:1	0.85	B2 U0 G2
Hamehook Rd-	Collector Low	Target	<u>></u> 0.8 fc	≤ 5.5 : 1	0.85	B2 U0 G2
East Leg	Collector, Low	Design	1.2 fc	2.9:1	0.85	B2 U0 G2

Note: Target Values based on Table 11-1, Chapter 11 & Section 3.2, Chapter 3 - ANSI/IES RP8-18

SCHUTES COLLET	DATE	NO.		DESIGNED: DRAWN: CHECKED: DATE:	KAI TEAM KAI TEAM KAI TEAM	KITTELSON & ASSOCIATES	ILLUMINATION LE DESCHUTES MARKET RD / HAMEHOOK R DESCHUTES COUNT
			REVISIONS	DATE.	12.1.2022		

GENERAL NOTES

- conduit in same trench as other conduits whenever possible.
- 4. All proposed pole bases, poles, luminaires, and wiring to be supplied by CEC and installed by contractor.
- 5. Final light pole location(s) shall be approved in the field by the engineer prior to foundation installation.
- bends, elbows shall be fiberglass.
- Christy Ward (cward@cec.coop // 541.312.7778) OR Juan Tovar (jtovar@cec.coop // 541.419.7708).
- and sleeve details.
- 10. All conduit runs shall be approved by Central Electric Cooperative (CEC) before backfill.
- 11. Cover and protect all new light pole foundations.
- applicable Deschutes County and ODOT Standards.

ILLUMINATION LEGEND DESCHUTES MARKET RD/HAMEHOOK RD IMPROVEMENTS

1. All illumination related work other than pole foundation shall be paid for at the contract price for "Switching, conduit, and wiring - Lump Sum."

2. Foundations, junction boxes, and conduit shall be installed at locations shown on plans. If conflicts arise, foundation, junction box, and conduit locations may be modified in the field per engineer's approval. All lighting equipment must be placed within the right-of-way. Place

3. Location of all existing utilities shall be verified prior to beginning any work. Coordinate all work with utility companies to eliminate conflicts.

6. This illumination plans set is accompanied by Oregon Department of Transportation (ODOT) Standard Drawing TM471, TM472, & TM482.

7. All conduit elbows shall be factory made and be long radius 36". For conduit runs longer than 150' or containing more than 270 degrees of

8. Contractor to coordinate with Central Electric Cooperative (CEC) ten (10) business days in advance of commencing illumination work. Contact

9. Contract to coordinate with Juan Tovar (jtovar@ccc.coop // 541.419.7708) at Central Electric Cooperative (CEC) to get necessary foundation

12. Light levels are based on ANSI/IES RP-8-18, Design and Maintenance of Roadway and Parking Facility Lighting criteria and the most recent

13. Conduit runs and junction box locations shown are schematic. Place junction boxes in a flat area (<2%), accessible to maintenance personnel.

12" DR TER BY VC SLEEVE T LIGHT ALLATION RK MRC RK MRC MRC MRC RK MRC MRC MRC RK MRC MRC MRC M	Digitally Signed Jan 19 2023 2:47 PM OREGON COREGON COREGON COREGON COREGON COREGON COREGON COREGON
51-210 1	EXPIRES: 06/30/24
GEND D INTERSECTION IMPRO	VEMENT
(, OREGON	JOB NO. DC0-02

SCHUTES COL				DESIGNED:	KAI TEAM	KITTELSON	ILLUMINATION F
				CHECKED:	και τεαν	& ASSOCIATES	DESCHUTES MARKET RD / HAMEHOUK R
\sim	DATE	NO.	DESCRIPTION R E V I S I O N S	DATE:	12.1.2022		DESCHUTES COUNTY

ILLUMINATION PLAN DESCHUTES MARKET RD / HAMEHOOK RD INTERSECTION IMPROVEMENTS

Finish grade Surfacing-match existing material Topsoil or Ξ Top of subgrade as directed 0 12" Base materia .0 0 Class D, pit or bar-run material (3" max.) (As directed) Class B, 1"–0 or ¾"–0 crushed rock 0 Class A Excavated native material Class E CLSM a Class C clean sand (¼" max.) backfill Jch STRATE STRATES 3<u>8089</u>262 3<u>8089</u>2223c ◄ "D" Table / Tracer wire (See general note 4) Nom. "B" "B" Pipe diameter "A" Ū "C" Pipe bedding, see Table A Trench foundation stabilization, as required 24" min.

TABLE A

20-JUL-2020

rd300.dgn

"A"	"B"	"C"	"D"
(in)	(in)	(in)	(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

Up 48"

- diameter.
- CALC. BOOK NO.

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

MULTIPLE INSTALLATIONS					
DIAMETER	MIN. SPACE BETWEEN PIPES				
Up to 48"	24"				
48" 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).

N/A	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 of should not be ut consulting a Professional En-	TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS
	DATE REVISION DESCRIPTION

Effective Date: December 1, 2022 - May 31, 2023

Effective Date: December 1, 2022 - May 31, 2023

Effective Date: December 1, 2022 - May 31, 2023

	TABLE 3					
	WOOD			METAL		
* ROU	ND	SQUARE		WEIGUT		
DIAMETER OF SMALL END (in)		SIZE nominal	SHAPE	PER (ft) 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	ⓐ Angle	3.19 lb	2"x2"x¼"	
4" to 7"	5"	[‡] 5"×5"	Tubular	b	2¾" O.D.	
4 10 7			(a) Angle	4.1 lb	2 ¹ ⁄ ₂ "x2 ¹ ⁄ ₂ "x ¹ ⁄ ₄ "	

<u>N/A</u>	SDR DATE13-JAN-2020
on and use of this rawing, while de- ccordance with ccepted engineer- les and practices, responsibility of	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
	OREGON STANDARD DRAWINGS
	BARBED AND WOVEN WIRE FENCES
nd should not be	2021
ut consulting a Professional En-	DATE REVISION DESCRIPTION

RD1010

Effective Date: December 1, 2022 - May 31, 2023

Top of slope 250' max. per sock . ((((**())**(/12" min. joint Compost sock see table overlap typ. for size and spacing Stagger joints typ. 5'-0" to 10'-0" 2"x2"x36" min. wooden stake typ., see Alternative 1 and Alternative 2 staking details. See alternative sock connection detail **SLOPE APPLICATION - PERSPECTIVE VIEW** 2"x2"x36" wooden stake Compost filter sock Compost blanket, see plans for applicability Flow 2" Min. **ALTERNATIVE 2 (Staking)** January, 2021 SDR DATE . _ _ _ _ NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications The selection and use of this **OREGON STANDARD DRAWINGS** Standard Drawing, while designed in accordance with **SEDIMENT BARRIER** generally accepted engineer-TYPE 8 ing principles and practices, is the sole responsibility of the user and should not be 2021 used without consulting a REVISION DESCRIPTION DATE Jan 2021 Removed Calc book numbers Registered Professional En-

Effective Date: December 1, 2022 - May 31, 2023

RD1040

FENCE SPACING FOR GENERAL APPLICATION TABLE

INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS

GRADE	MAXIMUM SPACING ON GRADE
<i>Grade < 10%</i>	300'
1 <i>0% <u><</u> Grade < 15%</i>	150'
1 <i>5% <u><</u> Grade < 20%</i>	100'
20%	50'
<i>30% ≤ Grade</i>	25'

Sediment Fence with Geotextile elongation less than 50% 4' Sediment Fence with Geotextile elongation 50% or more

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	SEDIMENT FENCE
d should not be	2021
ut consulting a	DATE REVISION DESCRIPTION
Professional Fn-	Jan 2021 Removed Calc book numbers
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Effective Date: December 1, 2022 - May 31, 2023

- 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						
	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						
cepted engineer- es and practices, responsibility of	SIGN INSTALLATION DETAILS						
a shoula hot be	2021						
ut consulting a	DATE REVISION DESCRIPTION						
Professional En-	1/07/22 Edited elevation text in Mounting Height details						

TM200

Effective Date: December 1, 2022 - May 31, 2023

gineer.

INTERSTATE ROUTE MARKERS

of s	Height	Width	А	в	с	D	Е	F	G	н	Ι
	18	18	111⁄4	11¼	3 ¾	3/8	1½	1 7/8C	3⁄4	4 1/8	6
	18	221/2	12¾	18	3 ¾	3/8	11/2	1 7/8C	3⁄4	4 1/8	6

Effective Date: December 1, 2022 - May 31, 2023

Effective Date: December 1, 2022 - May 31, 2023^{1:1200 - 001} TM 300

I M47

Effective Date: December 01, 2022 - May 31, 2023

TM500

Effective Date: December 01, 2022 - May 31, 2023

Effective Date: December 01, 2022 - May 31, 2023

Effective Date: December 1, 2022 - May 31, 2023

Effective Date: December 1, 2022 – May 31, 2023

1. Sign supports are designed in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals 1994. Use a wind velocity with a 25-year mean recourrence interval. 2. All concrete shall be Commercial Grade Concrete (f'c = 3000 psi). 3. All reinforcing steel shall conform to AASHTO Specification M31 (ASTM A615), Grade 60 or A706. 4. The following splice lengths shall be used unless otherwise shown: 5. All structural steel shall conform to ASTM Specification A572, Grade 50 unless shown otherwise. 6. Shims shall be fabricated from brass shim stock conforming to ASTM B36. 7. All bolts shall be high strength bolts conforming to ASTM Specification A325 (AASHTO M164). Nuts for high strength bolts shall be well lubricated heavy hexagon nuts conforming to ASTM Specification A563, (AASHTO M291), Grade DH. Compressible direct tension indicator washers shall conform to ASTM Specification F959. Hardened steel washers shall conform to ASTM Specification 8. Steel sheet for keepers shall conform to ASTM Specification A653. 9. Hinge and base plate holes shall be sub-drilled and reamed to size. Hinge and base plate slots shall be saw cut or machine guided flame cut. 10. Direct tension indicator washers shall be mechanically galvanized to ASTM B695. 11.Keeper plate shall be galvanized in accordance with ASTM A653, Coating G165. 12. All other steel including fasteners shall be hot-dip galvanized after fabrication. Remove galvanizing runs and beads on all slip surfaces. Nuts for high strength bolts may be retapped after galvanizing. 13. The use of a post larger than required by design is not permitted. 14. Tightening of base plate bolts shall be done with a state inspector present.

1. Assemble post to stub as shown in Base Assembly Detail. 2. Shim as required to plumb post. ($\pm \frac{1}{16}$ " / vert. 12") (2 shims maximum per bolt) 3. Tighten bolts in a systematic order to the "T1" torque prescribed in the Base Plate Data Table. 4. Loosen and retighten bolts to the "T2" torque prescribed in the Base Plate Data Table. Use the same order as the intitial tightening and DO NOT OVER TIGHTEN! 5. Burr threads at junction with nut using a center punch.

1. Shop assemble post sections as shown. (D.T.I. bumps toward bolt head) 2. Tighten each nut in a systematic order until the gap between the bolt head and direct tension indicator washer is in the 0.005" to 0.010" range. 3. Further tighten each nut in the same order until a nil gap between the bolt head

dwgs. IM220, TM601, ⁻	IM635, IM675					
1493	SDR DATE09-JAN-2015					
	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	MULTI-POST BREAKAWAY SIGN SUPPORTS NOTES					
a snoula_not be	2021					
ut consulting a	DATE REVISION DESCRIPTION					
Professional En-						

10-JUL-2020 dgn tm601

TN601

Notes.

- 1. See TM635 for placement of signs.
- 2. See TM600 for Additional details and bolting procedures.

Accompanied by dwgs. TM220, TM600, TM635, TM675

1493	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-	OREGON STANDARD DRAWINGS						
ccordance with ccepted engineer- les and practices, responsibility of	MULTI-POST BREAKAWAY SIGN SUPPORT DETAILS						
d should not be	2021						
ut consulting a	DATE REVISION DESCRIPTION						
Professional En-							

TM601

Effective Date: December 1, 2022 – May 31, 2023

Effective Date: December 1, 2022 - May 31, 2023

1. Sign supports are designed in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals 1994. Use a wind velocity with a 10-year mean reccurrence

2. All concrete shall be Commercial Grade Concrete (f'c = 3000 psi) 3. All reinforcing steel shall conform to AASHTO Specification M31, Grade 60,

4. The following splice lengths shall be used unless otherwise shown. Bar Size #4 #5 Splice Length (mm) 1'-1" 1'-5"

5. Structural steel shall conform to AASHTO M223 (ASTM A572) Grade 50. unless shown otherwise

6. Structural tubing shall conform to ASTM Specification A500, Grade B, or A501. 7. Shims shall be fabricated from brass shim stock conforming to ASTM B36. 8. All bolts shall be high strength bolts conforming to to ASTM Specification A325 (AASHTO M164). Nuts for high strength bolts shall be well lubricated heavy hexagon nuts conforming to ASTM Specification A563, (AASHTO M291), Grade DH. Hardened steel washers shall conform to ASTM Specification F436 (AASHTO M293). 9. Steel sheet for keepers shall conform to ASTM Specification A653.

10. Base plate holes shall be sub-drilled and reamed to size. Base plate slot shall be saw cut or machine guided flame cut.

11. Keeper sheet metal shall be galvanized in accordance with ASTM A653, Coating G165. All other steel including fasteners shall be hot-dip galvanized after fabrication. Remove galvanizing runs and beads on all slip surfaces. Nuts for high strength bolts may be retapped after

12. The use of post larger than required by design will not be permitted. 13. See Dwg. TM675 for sign and sign mounting details.

BASE PLATE BOLTING PRODEDURE:

1. Assemble post to stub as shown in Base Assembly Detail. 2. Shim as required to plumb post. ($\pm \frac{1}{16}$ "/vert. 12") (2 shims maximum per bolt)

3. Tighten bolts in a systematic order to the "T1" ft-lbs torque. 4. Loosen and retighten bolts to the "T2" ft-lbs torque. Use the same order as the intitial tightening and DO NOT OVER TIGHTEN!

5. Burr threads at junction with nut using a center punch.

Accompanied by dwgs. TM200, TM201, TM635, TM675

1493	SDR DATE09-JAN-2015						
	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	TRIANGULAR BASE BREAKAWAY MULTI-DIRECTIONAL SLIP BASE DESIGN						
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ut consulting a	DATE REVISION DESCRIPTION						
Professional En-							

m635.dgn 10-JUL-2020

TM635

PLACEMENT OF UNPROTECTED BREAKAWAY SUPPORTS:

The location of unprotected breakaway supports with respect to the travel lane(s) and the roadside terrain and other geometric conditions over which the vehicle travels before impacting the support will affect the support's breakaway performance.

- Breakaway supports located in gore areas are particularly vulnerable to vehicle impacts. Breakaway supports located across tee intersections, at the end of lane drop or on the outside of horizontal curves are also likely to be struck. Locating breakaway supports in these areas should be avoided if possible. If the breakaway support must be located in these areas, locate them to produce an impact situation that is as forgiving as possible while assuring adequate recovery space beyond the support(s).
- Breakaway supports placed up on cut slopes generally result in a safer impact situation than for those placed down on fill slopes. The support placed on a cut slope will be lighter than a support placed on fill slope. The momentum of a vehicle traversing a cut slope will generally be less than that for a vehicle traversing a fill slope. A vehicle going up a cut slope is generally more stable and more easily redirected than a vehicle going down a fill slope.
- Placement of breakaway supports in or near ditches should be avoided. Breakaway supports should not be located near raised curbs or near the hinge point ot the fill slope.
- Where possible, supports should be located behind established barriers.
- The guidelines contained herein should be used if possible. However, adjustments to the guidelines may be necessary because of right-of-way and/or other constraints.
- See TM200 requirements when signs are mounted on unprotected Breakaway Supports.

	SDR DATE06-JUL-2015						
	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	BREAKAWAY SIGN & LUMINAIRE SUPPORTS - SUPPORT LOCATION GUIDELINES						
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Effective Date: December 1, 2022 – May 31, 2023

Effective Date: December 1, 2022 – May 31, 2023

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 Prawing, 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 Professional En-	DATE REVISION DESCRIPTION						

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-	OREGON STANDARD DRAWINGS						
ccordance with 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.						
i i oressional Ell							

Effective Date: December 1, 2022 – May 31, 2023

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							
	Number of Posts Number of Posts Number of Posts						osts		
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 ĝa.	231 462 693 185 370 555 167 334 501								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 Posts						osts		
Square Tube Size	ube 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 S					

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.

TM671.

<u>2¼</u>

Accompanied by

CALC. BOOK NO.

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

GENERAL NOTES:

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.

′ '' 1	&	2½"	_	12	GA.	DETAIL	
			Nc	o scale	9		

dwgs.	TM200,	TM671,	TM687,	TM688,	TM689,	TM822

5752	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 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: December 1, 2022 – May 31, 2023

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SLIP BASE ELEVATION

No scale

SLIP BASE EXPLODED VIEW

No scale

General Notes:

- to the manufacturer's instructions.

CALC. BOOK NO.

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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

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-	

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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 BARR	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		

MINIMUM LENGTHS TABLE						
"L" VALUE FOR TAPERS (ft)						
	W = Lane o	r Shoulder Wid	d or shifted	BUFFER "B" (ft)		
SPEED (mpn)	$W \leq 10$	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	
	FREEWAYS					
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)	Sig	n Spacing (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:

• 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:

- 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.

TYPICAL ABRUPT EDGE DELINEATION

NOTES:

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

- CALC. BOOK NO.

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TM800

	SDR DATE01_JUL-2022
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
ion and use of this Drawing, while de-	OREGON STANDARD DRAWINGS
ccordance with ccepted engineer- les and practices, responsibility of	TABLES, ABRUPT EDGE AND PCMS DETAILS
nd should not be	2021
ut consulting a	DATE REVISION DESCRIPTION
Professional Fn-	07/01/22 Added a note for TPARs.
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GENERAL NOTES FOR ALL DETAILS:

● S r	andbags (ap nay be place	oproxima ed on low	ately 25 I b s ver frame to	ack filled provide a	with sand additional) ballast.
● E f	allast shall rom barrica	not exter de.	nd above bo	ottom rail	or be sus	pended
● F	or rails less	than 36'	" long, 4" w	ide stripes	s shall be	used.
● F	ails must b	e 8" min.	to 12" max	. in heigh	t.	
• l	Jse barricad	es from (ODOT Quali	fied Prodເ	ucts List (C	QPL).
● L s	lse 4' Type I pace is limit	III barrica ted.	des where	horizontal	ļ	
● [f	o not block) acility is pro	bike lan perly clo	es or shoul sed and sig	ders unles ned.	ss the	
• E c i	 Do not place barricades in sidewalks unless sidewalk is closed and a temporary pedestrian accessible route (TPAR) is signed according to the TCP. See Dwg. No. TM844. 					
	BAF	Bar J J III)R RRICA	ricade arricade typ Indicates b on the roac	ie arricade p Iway FATION	lacement	
/A	_ SDR DA	ATE		01JL	JL-2020_	
	NOTE:	All mater the curren	ial and workm nt Oregon Stan	ianship shall dard Specifio	be in accor cations	rdance with
e of this chile de- e with ngineer- ractices, pility of				IGS S		
not be			2	021		
ting a nal Fr_	DATE		REV	SION DESCRI	PTION	
nai LII-						

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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.

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.

TM822

01-JUL-2020

tm822.dgn

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- 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.

- 36" x 36" sign (or, max. 12 sq. ft. of total sign area)

2" Sch. 40 pipe

2½" Sch. 40 pipe

Conc. Barrier

- 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 DATE01_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	TEMPORARY SIGN SUPPORTS				
d should not be	2021				
ut consulting a Professional Fn-	DATE REVISION DESCRIPTION				

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