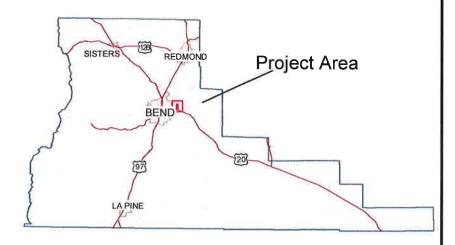
DESCHUTES COUNTY ROAD DEPARTMENT

PLANS FOR

PAVING OF ERICKSON ROAD: US 20 TO DICKEY RD

APRIL 2018





NE NEFF RD NEW TERM LAND BEGIN Project BEAR CREEK RD LOCATION MAP NOT TO SCALE

Road Centerlines

Canals

LEGEND

Section to Overlay

County Routes

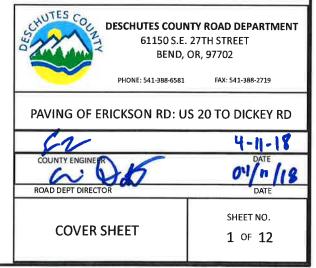
State Highway

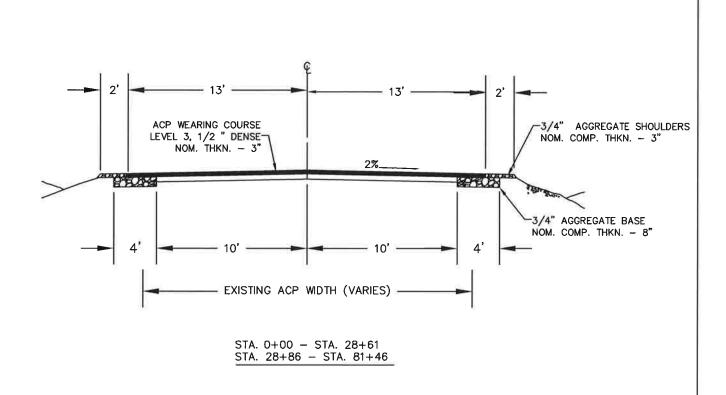
INDEX OF SHEETS

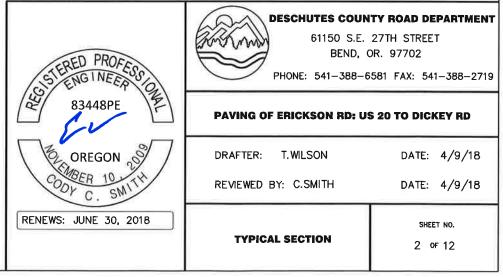
Sheet #	Description	
1	COVER SHEET	
2	TYPICAL SECTION	
3	DETAILS	
4	PLANSta 0+00 To 10+00	
5	PLANSta 10+00 To 20+00	
6	PLANSta 20+00 To 30+00	
7	PLANSta 30+00 To 40+00	
8	PLANSta 40+00 To 50+00	
9	PLANSta 50+00 To 60+00	
10	PLANSta 60+00 To 70+00	
11	PLANSta 70+00 To 80+00	
12	PLANSta 80+00 To 81+46	
OREGON STANDARD DRAWING NO.		
10		

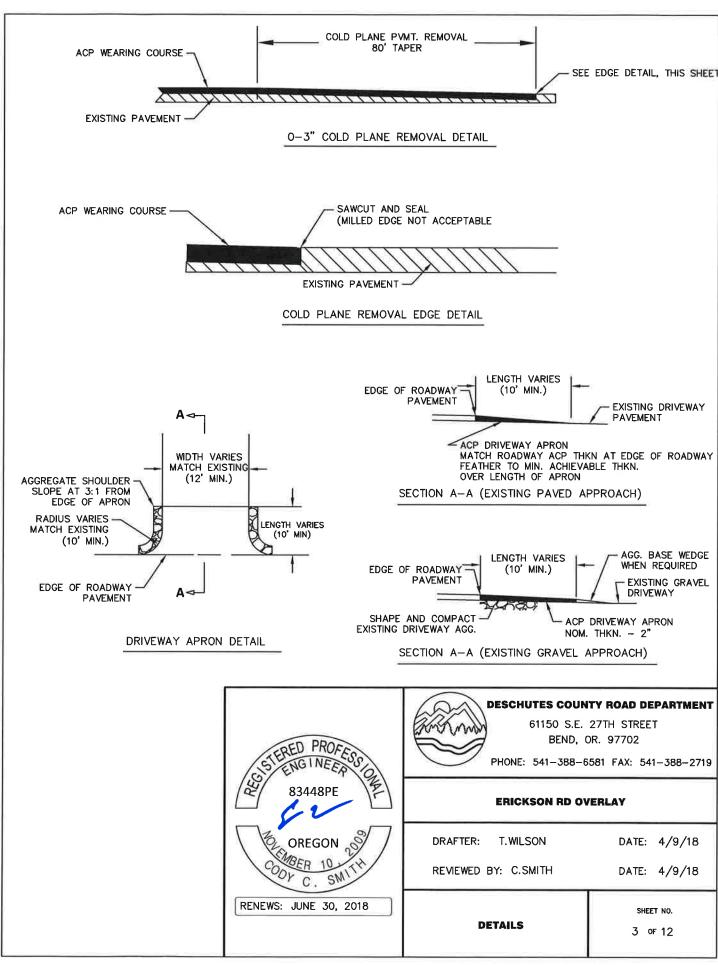
TM800 TABLES, ABRUPT EDGE, AND PCMS DETAILS

TM850 2-LANE, 2-WAY ROADWAYS











LEGEND

3" COLD PLANE REMOVAL



0"-3" COLD PLANE REMOVAL (SEE DETAIL, SHEET 3)



PAVING AREA

(SEE TYPICAL SECTION, SHEET 2)



DRIVEWAY APPROACH (SEE DETAIL, SHEET 3)



DESCHUTES COUNTY ROAD DEPARTMENT61150 S.E. 27TH STREET

BEND, OR, 97702

PHONE: 541-388-6581

FAX: 541-388-2719

PAVING OF ERICKSON RD: US 20 TO DICKEY RD

DRAFTER: R. PINKSTON

DATE: 2/28/18

REVIEWED BY: C. SMITH

PLAN---STA 0+00 TO 10+00

DATE:

SHEET NO.



LEGEND

PAVING AREA
(SEE TYPICAL SECTION, SHEET 2)





DESCHUTES COUNTY ROAD DEPARTMENT

61150 S.E. 27TH STREET BEND, OR, 97702

PHONE: 541-388-6581

FAX: 541-388-2719

PAVING OF ERICKSON RD: US 20 TO DICKEY RD

DRAFTER: R. PINKSTON

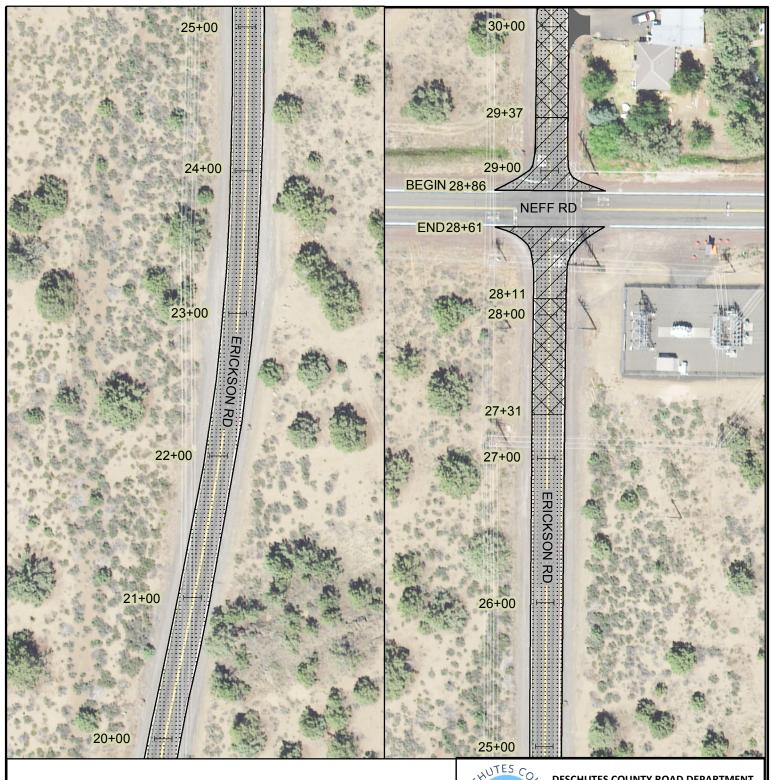
DATE: 2/28/18

REVIEWED BY: C. SMITH

DATE:

PLAN---STA 10+00 TO 20+00

SHEET NO. **5** OF **12**



LEGEND

3" COLD PLANE REMOVAL

0"-3" COLD PLANE REMOVAL (SEE DETAIL, SHEET 3)

PAVING AREA

(SEE TYPICAL SECTION, SHEET 2)



DRIVEWAY APPROACH (SEE DETAIL, SHEET 3)



DESCHUTES COUNTY ROAD DEPARTMENT

61150 S.E. 27TH STREET BEND, OR, 97702

PHONE: 541-388-6581

FAX: 541-388-2719

PAVING OF ERICKSON RD: US 20 TO DICKEY RD

DRAFTER: R. PINKSTON

DATE: 2/28/18

REVIEWED BY: C. SMITH

DATE:

PLAN---STA 20+00 TO 30+00

SHEET NO.



<u>PLAN</u> NOT TO SCALE

LEGEND

0"-3" COLD PLANE REMOVAL (SEE DETAIL, SHEET 3) PAVING AREA

(SEE TYPICAL SECTION, SHEET 2)

DRIVEWAY APPROACH (SEE DETAIL, SHEET 3)



DESCHUTES COUNTY ROAD DEPARTMENT

61150 S.E. 27TH STREET BEND, OR, 97702

PHONE: 541-388-6581

FAX: 541-388-2719

PAVING OF ERICKSON RD: US 20 TO DICKEY RD

DRAFTER: R. PINKSTON

DATE: 2/28/18

REVIEWED BY: C. SMITH

DATE:

PLAN---STA 30+00 TO 40+00

SHEET NO. 7 OF 12



<u>LEGEND</u>

PAVING AREA

(SEE TYPICAL SECTION, SHEET 2)



DRIVEWAY APPROACH (SEE DETAIL, SHEET 3)



DESCHUTES COUNTY ROAD DEPARTMENT

61150 S.E. 27TH STREET BEND, OR, 97702

PHONE: 541-388-6581

FAX: 541-388-2719

PAVING OF ERICKSON RD: US 20 TO DICKEY RD

DRAFTER: R. PINKSTON

DATE: 2/28/18

REVIEWED BY: C. SMITH

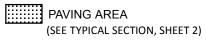
DATE:

PLAN---STA 40+00 TO 50+00

SHEET NO.



LEGEND





DRIVEWAY APPROACH (SEE DETAIL, SHEET 3)



DESCHUTES COUNTY ROAD DEPARTMENT

61150 S.E. 27TH STREET BEND, OR, 97702

PHONE: 541-388-6581

FAX: 541-388-2719

PAVING OF ERICKSON RD: US 20 TO DICKEY RD

DRAFTER: R. PINKSTON

DATE: 2/28/18

REVIEWED BY: C. SMITH

DATE:

PLAN---STA 50+00 TO 60+00

SHEET NO.



<u>LEGEND</u>

PAVING AREA

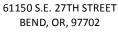
(SEE TYPICAL SECTION, SHEET 2)



DRIVEWAY APPROACH (SEE DETAIL, SHEET 3)



DESCHUTES COUNTY ROAD DEPARTMENT



PHONE: 541-388-6581

FAX: 541-388-2719

PAVING OF ERICKSON RD: US 20 TO DICKEY RD

DRAFTER: R. PINKSTON

DATE: 2/28/18

REVIEWED BY: C. SMITH

DATE:

PLAN---STA 60+00 TO 70+00

SHEET NO.

10 of 12



LEGEND

PAVING AREA
(SEE TYPICAL SECTION, SHEET 2)



DRIVEWAY APPROACH (SEE DETAIL, SHEET 3)



DESCHUTES COUNTY ROAD DEPARTMENT

61150 S.E. 27TH STREET BEND, OR, 97702

PHONE: 541-388-6581

FAX: 541-388-2719

PAVING OF ERICKSON RD: US 20 TO DICKEY RD

DRAFTER: R. PINKSTON

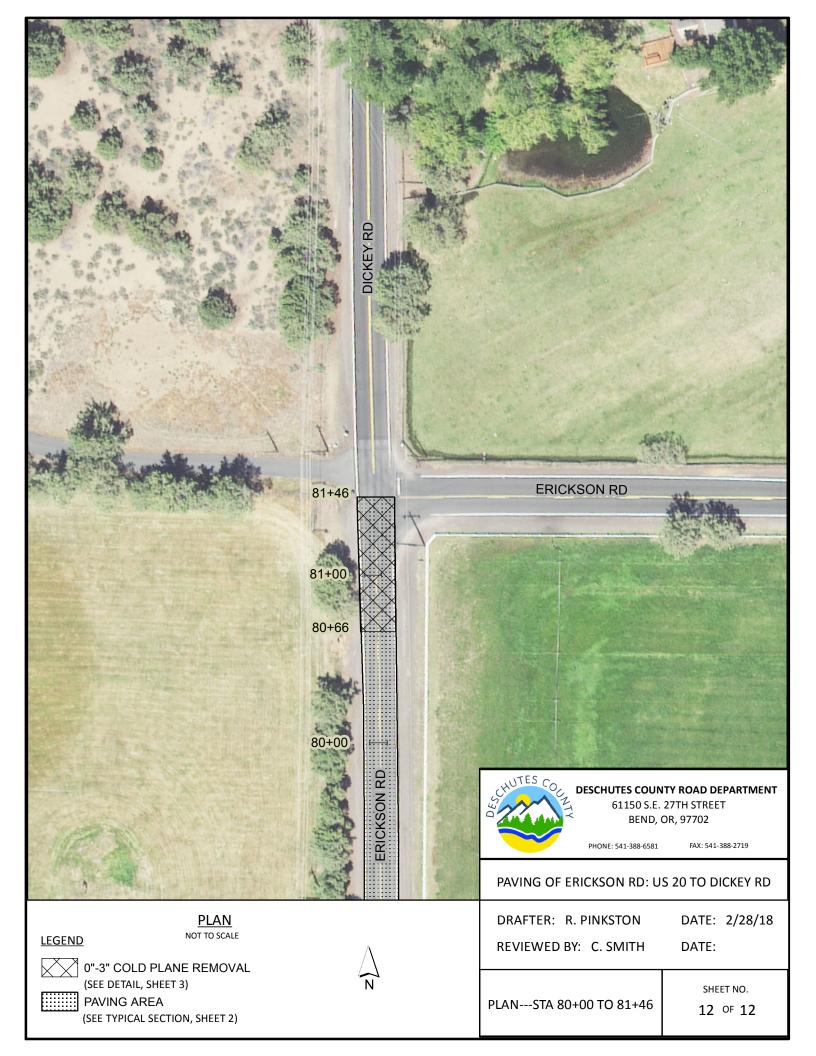
DATE: 2/28/18

REVIEWED BY: C. SMITH

DATE:

PLAN---STA 70+00 TO 80+00

SHEET NO. **11** OF **12**



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:

CONCRETE BARRIER FLARE RATE TABLE			
★ SPEED (mph)	MINIMUM FLARE RATE		
≤ 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		

M I I	NIMU	M L	ENGT	HS	TABLE
"L" VALUE FOR TAPERS (ft)					
W = Lane or Shoulder Width being closed or shifted				BUFFER "B" (ft)	
★ SPEED (mph)	W ≤ 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'.

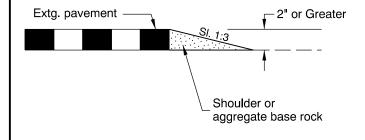
• For Shoulder closures where W < 10', use "L" value for W = 10' or calculate "L" using formula, for Speeds \geq 45: L = WS, Speeds < 45: L = S²W/60, S = Speed, W=Width

TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE				
★ SPEED (mph)	Sig	ın Spacing	Max. Channelizing	
(1 /	Α	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

- 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 paved 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.



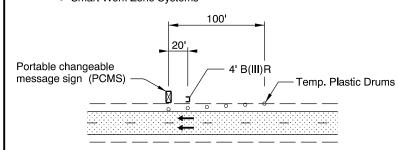
EXCAVATION ABRUPT EDGE

NOTES:

- Install PCMS beyond the outside shoulder, when possible.
- Use the appropriate type of barricade panels for PCMS location. Right shoulder, use Type B(III)R Left shoulder, use Type B(III)L
- Use six drums in shoulder taper on 20' spacing. The drums and barricade may be omitted when PCMS is placed behind a roadside barrier.
- Detail as shown is used for trailered and non-crashworthy components of:
- Portable Traffic Signals

CW21-9

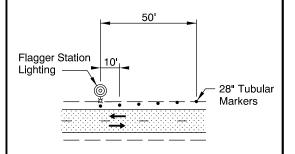
Smart Work Zone Systems



PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) INSTALLATION

NOTES:

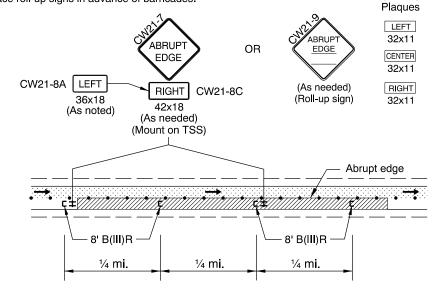
- Install Flagger Station Lighting beyond the outside shoulder, where practical.
- Use six tubular markers in shoulder taper on 10' spacing.
- Place cart / generator / power supply off of the shoulder, as far as practical.



FLAGGER STATION LIGHTING DELINEATION

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) plagues to the sign face using hook and loop fasteners. Place roll-up signs in advance of barricades.



TYPICAL ABRUPT EDGE DELINEATION

GENERAL NOTES FOR ALL TCP DRAWINGS:

- Signs and other Traffic Control Devices (TCD) shown are the minimum required.
- Place a barricade approx. 20' ahead of all sequential arrow boards.
- Arrows shown in roadway are directional arrows to indicate traffic movements.
- All signs are 48" x 48" unless otherwise shown. Use flourescent orange sheeting for the background of all temporary warning signs.

TM09-01

CALC. BOOK NO. _

- o o Temp. Plastic Drums See TCD Spacing Table for max. spacing.
- • 28" Tubular Markers See TCD Spacing Table for max spacing

UNDER TRAFFIC

BASELINE REPORT DATE

UNDER CONSTRUCTION

- All diamond shaped warning signs mounted on barrier sign supports shall be 36" by 36". All other signs mounted on barrier sign supports shall not exceed 12 sq. ft. in total sign area.
- Low speed highways have a pre-construction posted speed of 40 mph or less. High speed highways have a pre-construction posted speed of > 40 mph.
- Do not locate sign supports in locations designated for bicycle or pedestrian traffic.
- Combine drawing details to complete temporary traffic control for each work activity.

To be accompanied by Drg. Nos. TM820 & TM821

01-JUL-2017

	NOTE: All material and workmanship shall be in accordance wi the current Oregon Standard Specifications
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole respon-	OREGON STANDARD DRAWINGS
	TABLES, ABRUPT EDGE AND PCMS DETAILS
sibility of the user and should not	2018
be used without consulting a	DATE REVISION DESCRIPTION
Registered Professional Engineer.	

