



Oregon

Theodore R. Kulongoski, Governor


Department of Transportation
Technical Services
Roadway Engineering Section
355 Capitol Street NE, Room 222
Salem, OR 97301-3871
Telephone 503-986-3714
FAX 503-986-3749

DATE: April 9, 2009

Addenda No. 2

TO: PLAN HOLDERS

PREPARED BY: Michelle Wright

APPROVED BY:  P.E.

SUBJECT: US20: Bulger Cr – Riley Jct. Section
Central Oregon Highway
Harney County
Paving Project
(Bids to be opened and read April 16, 2009)

The following changes are made to the Project Bid Booklet:

1. The following changes are made to the Project Bid Items:

a. Quantity changes:

<u>Number</u>	<u>Item</u>	<u>Quantity</u>	
		<u>Original</u>	<u>New</u>
0030	Temporary Signs	1,440	1,500
0050	Temporary Non-Removable Tape	3,100	4,200
0060	Temporary Striping	32,000	74,000
0080	Flaggers	2,200	2,600
0100	Pilot Cars	800	1000

US: Bulger Cr – Riley Jct. Section
 Central Oregon Highway
 Harney County
 Paving Project
 (Bids to be opened and read April 16, 2009)

Addenda No. 2

0230	Cold Plane Pavement Removal, 0 – 2 ½ Inches Deep	2,100	4,600
0240	Aggregate Shoulders	10,000	21,000
0260	Emulsified Asphalt in Fog Coat	135	288
0290	Emulsified Asphalt for Tack Coat	180	270
0300	Emulsified Asphalt Concrete Mixture	39,000	74,000
0310	Emulsified Asphalt in Mixture	2,150	4,070
0320	Choke Aggregate	2,500	4,500
0330	Level 3, 1/2 Inch Dense MHMAC Mixture	2,300	2,700
0340	22 Inch Asphalt Concrete Pavement Repair	2,000	3,600
0350	Extra for Asphalt Approaches	9	31
0420	Delineators, Type 2	400	800
0440	Continuous Rumble Strips	27	60
0490	Type “G” Signs in Place	103.00	129.90

b. Deleted items:

0380 Guardrail Anchors, Type 1

c. Added items:

<u>Number</u>	<u>Item</u>	<u>Unit</u>	<u>Quantity</u>
0530	Subgrade Geotextile	Sq. Yd.	3,800
0540	Guardrail Anchors, Type 1 Modified	Each	2

Make a copy of and use the new attached Bid Sheets. A Bid **not** including these new Bid Sheets **will be rejected as non-responsive**.

The following changes are made to the Project Special Provisions:

1. Subsection **00150.55 Cooperation with Other Contractors** - The following is added to the Contract Name / Estimated Times Table:

US20: Riley Jct – Warm Spr Rd & US395 Chipseal Sec.
Central Oregon, John Day – Burns &
Lakeview – Burns Highways

April 2008 – June 1, 2009

2. Subsection **00195.11(d) Fuel Cost Price Escalation/De-escalation, Fuel Price Adjustment** - The paragraph that begins with the words "Fuel requirements for constructing" is replaced with the following:

Fuel requirements for constructing the Project have been estimated at 88,500 gallons, based on fuel factors shown.

3. Subsection **00225.02 General Requirements** – The first paragraph that begins with the words "Install a type "W8"..." is replaced with the following:

Install a Type "W8" "PUTTING OREGON BACK TO WORK" (CG20-8S-48) sign with a "KEEPING OREGON ON THE MOVE" rider on the Central Oregon and Lakeview - Burns Highways, approximately 500 feet in advance of the "ROAD WORK AHEAD" sign at each end of the Project, facing incoming traffic.

4. Subsection **00225.02 General Requirements** – The second paragraph that begins with the words "Install an "ROAD WORK NEXT 14 MILES"..." is deleted and replaced with the following:

Install an "ROAD WORK NEXT 31 MILES" (CG20-13-36) sign on the Central Oregon Highway, in advance of the "ROAD WORK AHEAD" (W20-1-48) sign on each end of the Project according to sign spacing "A" from the "TCD Spacing Table" shown on the standard drawings.

5. Subsection **00225.02 General Requirements** – The paragraph that begins with the words "Install two sign flag boards..." is deleted.

6. Subsection **00735.40 Season and Weather Limitations** - The first sentence of the paragraph that begins with the words " Place EAC from..." is deleted and replaced with the following:

Place EAC from May 1 to September 15, inclusive, when the pavement temperature is 60 F or above.

US: Bulger Cr – Riley Jct. Section
Central Oregon Highway
Harney County
Paving Project
(Bids to be opened and read April 16, 2009)

Addenda No. 2

The following changes are made to the Project Plans:

1. Plan sheets 1, 1A, 2, 3, S-11145 and S-11146 are replaced with revised plan sheets 1, 1A, 2, 3, S-11145, and S-11146.
2. Plan sheet 2A, 2A-2 and 2A-3 are replaced with plan sheets 2A, 2B, 2B-2 and 2B-3.

These changes will be included in the Contract for this Project. It is understood that your Bid will be submitted accordingly.

Make copies of the new Bid Sheets to replace the Special Provisions Bid Schedule Sheets.

mfw:MJK

Attachments: New Bid Sheets
Revised Plan Sheets
New Plan Sheets

BID SCHEDULE

CONTRACT ID: 14025
PROJECT KEY: 16366

PROJECT: US20: BULGER CREEK - RILEY JCT
ADDENDUM NUMBER: 2

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
SECTION 0001 TEMPORARY FEATURES AND APPURTENANCES				
0010	0210-0100000A MOBILIZATION	LS ALL		
0020	0225-0100000A TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LS ALL		
0030	0225-0102000J TEMPORARY SIGNS	SQFT 1,500.00		
0040	0225-0149000E TEMPORARY FLEXIBLE PAVEMENT MARKERS	EACH 1,800.00		
0050	0225-0151000F TEMPORARY NON-REMOVABLE TAPE	FOOT 4,200.00		
0060	0225-0153000F TEMPORARY STRIPING	FOOT 74,000.00		
0070	0225-0164000E PORTABLE CHANGEABLE MESSAGE SIGNS	EACH 2.00		
0080	0225-0168000T FLAGGERS	HOUR 2,600.00		
0090	0225-0168100E FLAGGER STATION LIGHTING	EACH 3.00		
0100	0225-0172000T PILOT CARS	HOUR 1,000.00		
0110	0280-0100000A EROSION CONTROL	LS ALL		
0120	0290-0100000A POLLUTION CONTROL PLAN	LS ALL		

SECTION 0002 ROADWORK

BID SCHEDULE

CONTRACT ID: 14025
PROJECT KEY: 16366

PROJECT: US20: BULGER CREEK - RILEY JCT
ADDENDUM NUMBER: 2

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0130	0305-0100000A CONSTRUCTION SURVEY WORK	LS ALL		
0140	0310-0106000A REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS ALL		
0150	0330-0105000K GENERAL EXCAVATION	CUYD 2,250.00		
0160	0334-0100000L PREPARATION OF SHOULDERS	MILE 13.50		

SECTION 0003 BRIDGES - 03504A SILVER CREEK IRRIGATION DITCH

0170	0501-0100000A BRIDGE REMOVAL WORK	LS ALL		
0180	0510-9Z90000J BRIDGE DECK COLD PLANE PAVEMENT REMOVAL, 4-6 INCHES DEEP	SQYD 377.00		
0190	0587-0107000A THRIE BEAM STEEL RAIL	LS ALL		
0200	0591-0100000J WARRANTED WATERPROOFING MEMBRANE	SQFT 2,100.00		

SECTION 0004 BRIDGES - 03505A SILVER CREEK

0210	0510-9Z90000J BRIDGE DECK COLD PLANE PAVEMENT REMOVAL, 3-5 INCHES DEEP	SQYD 166.00		
0220	0591-0100000J WARRANTED WATERPROOFING MEMBRANE	SQFT 1,495.00		

SECTION 0005 BASES

BID SCHEDULE

CONTRACT ID: 14025
PROJECT KEY: 16366

PROJECT: US20: BULGER CREEK - RILEY JCT
ADDENDUM NUMBER: 2

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0230	0620-0105000J COLD PLANE PAVEMENT REMOVAL, 0 - 2-1/2 INCHES DEEP	SQYD 4,600.00		
0240	0640-0101000M AGGREGATE SHOULDERS	TON 21,000.00		
0250	0641-0102000M AGGREGATE BASE	TON 4,400.00		

SECTION 0006 WEARING SURFACES

0260	0705-0101000M EMULSIFIED ASPHALT IN FOG COAT	TON 288.00		
0270	0710-0100000K AGGREGATE IN EMULSIFIED ASPHALT SURFACE TREATMENT	CUYD 3,800.00		
0280	0710-0102000M ASPHALT IN EMULSIFIED ASPHALT SURFACE TREATMENT	TON 600.00		
0290	0730-0100000M EMULSIFIED ASPHALT FOR TACK COAT	TON 270.00		
0300	0735-0100000M EMULSIFIED ASPHALT CONCRETE MIXTURE	TON 74,000.00		
0310	0735-0101000M EMULSIFIED ASPHALT IN MIXTURE	TON 4,070.00		
0320	0735-0102000K CHOKER AGGREGATE	CUYD 4,500.00		
0330	0744-0302000M LEVEL 3, 1/2 INCH DENSE MHMAC MIXTURE	TON 2,700.00		

BID SCHEDULE

CONTRACT ID: 14025
PROJECT KEY: 16366

PROJECT: US20: BULGER CREEK - RILEY JCT
ADDENDUM NUMBER: 2

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0340	0748-0113000J 22 INCH ASPHALT CONCRETE PAVEMENT REPAIR	3,600.00 SQYD		
0350	0749-0100000E EXTRA FOR ASPHALT APPROACHES	31.00 EACH		

SECTION 0007 PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVICES

0360	0810-0104000F GUARDRAIL, TYPE 2A	250.00 FOOT		
0370	0810-0107000F GUARDRAIL, TYPE 3	50.00 FOOT		
0380	0000-0100000A DELETED BID ITEM	ALL LS	0.00	0.00
0390	0810-0122000E GUARDRAIL END PIECES, TYPE B	1.00 EACH		
0400	0810-0126000E GUARDRAIL TRANSITION	4.00 EACH		
0410	0810-0129000E GUARDRAIL TERMINALS, NON-FLARED	7.00 EACH		
0420	0840-0102000E DELINEATORS, TYPE 2	800.00 EACH		
0430	0840-0106000E MILEPOST MARKER POSTS	13.00 EACH		
0440	0857-0101000L CONTINUOUS RUMBLE STRIPS	60.00 MILE		
0450	0860-0200000F LONGITUDINAL PAVEMENT MARKINGS - PAINT	190,000.00 FOOT		

SECTION 0008 PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS

BID SCHEDULE

CONTRACT ID: 14025
PROJECT KEY: 16366

PROJECT: US20: BULGER CREEK - RILEY JCT
ADDENDUM NUMBER: 2

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0460	0905-0100000A REMOVE EXISTING SIGNS	LS ALL		
0470	0910-0100000K WOOD SIGN POSTS	FBM 500.00		
0480	0940-0107000J TYPE "C" SIGNS IN PLACE	SQFT 24.00		
0490	0940-0113000J TYPE "G" SIGNS IN PLACE	SQFT 129.90		
0500	0940-0121000J TYPE "R" SIGNS IN PLACE	SQFT 18.00		
0510	0940-0124000J TYPE "W1" SIGNS IN PLACE	SQFT 6.20		
0520	0940-0134000J TYPE "Y1" SIGNS IN PLACE	SQFT 11.30		
SECTION 0009 ADDED BID ITEMS				
0530	0350-0105000J SUBGRADE GEOTEXTILE	SQYD 3,800.00		
0540	0810-0120000E GUARDRAIL ANCHORS, TYPE 1 MODIFIED	EACH 2.00		
	TOTAL BID			

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	Title Sheet
1A	Index Of Sheets Cont'd. & Std. Drg. Nos.

STATE OF OREGON
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED PROJECT

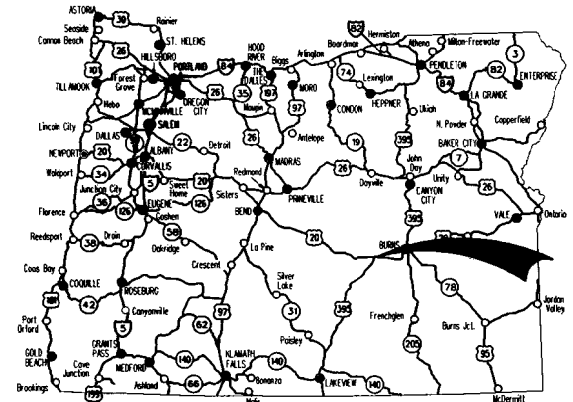
PAVING

US20: BULGER CR - RILEY JCT. SEC.

CENTRAL OREGON HIGHWAY

HARNEY COUNTY

APRIL 2009

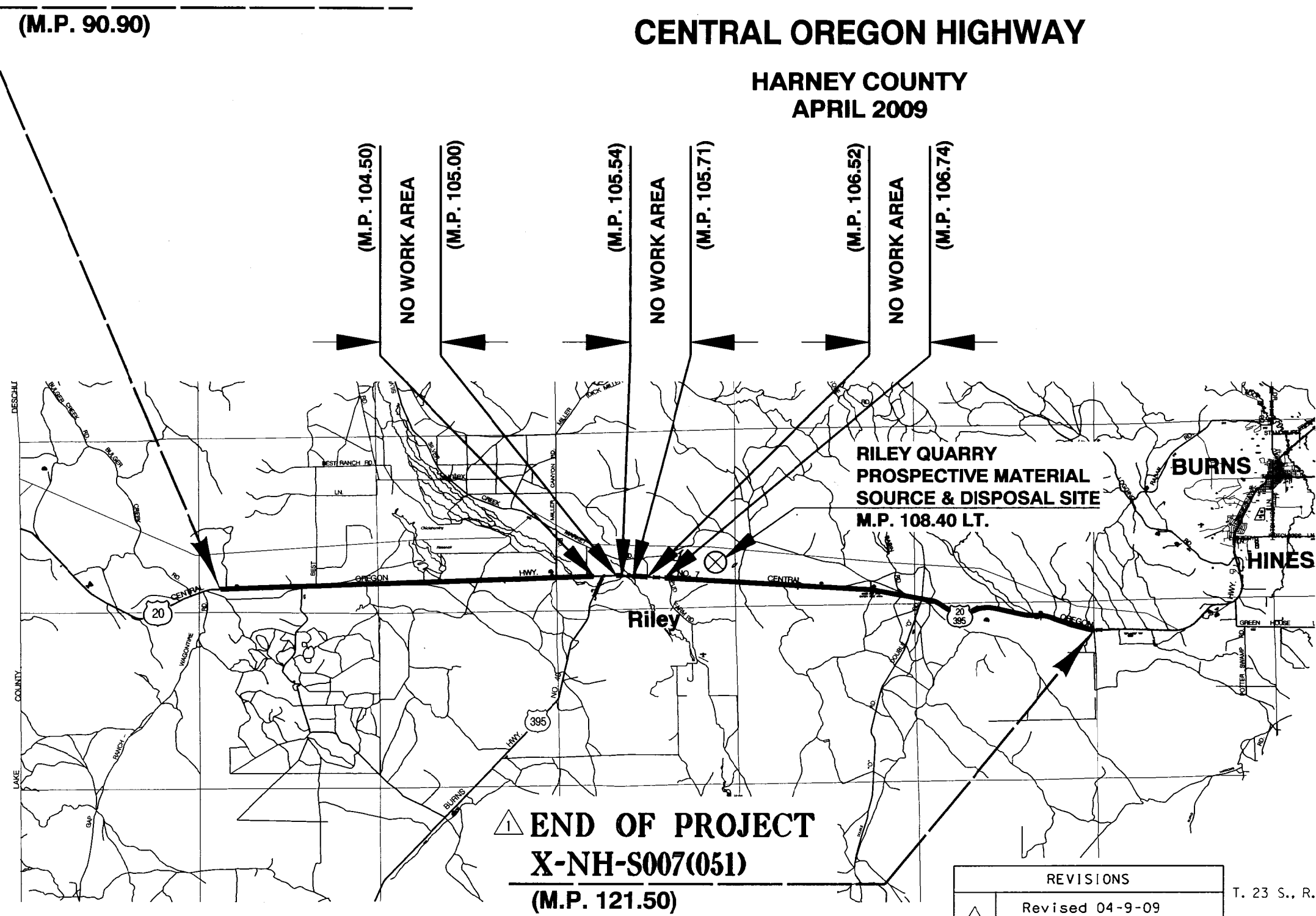


Overall Length Of Project - 29.71 Miles

ATTENTION:
Oregon Law Requires You To Follow Rules Adopted By The Oregon Utility Notification Center. Those Rules Are Set Forth In OAR 952-001-0010 Through OAR 952-001-0090. You May Obtain Copies Of The Rules By Calling The Center. (Note: The Telephone Number For The Oregon Utility Center is (503) 232-1987.)



BEGINNING OF PROJECT
X-NH-S007(051)
(M.P. 90.90)



REVISIONS	
1	Revised 04-9-09 Revised End of Project Location

T. 23 S., R. 25-27 E., W.M.

OREGON TRANSPORTATION COMMISSION

- Gail Achterman CHAIR
- Michael Nelson VICE-CHAIR
- Janice Wilson COMMISSIONER
- Alan Brown COMMISSIONER
- David Lohman COMMISSIONER
- Matthew L. Garrett DIRECTOR OF TRANSPORTATION

These plans were developed using ODOT design standards. Exceptions to these standards, if any, have been submitted and approved by the ODOT Chief Engineer or their delegated authority.

Approving Authority: *Steven A. Davis*
Steven A. Davis, Reg 5 Tech Center Mgr.

B. Johnson
Concurrence by ODOT Chief Engineer

US20: BULGER CR - RILEY JCT. SEC.
CENTRAL OREGON HIGHWAY
HARNEY COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	X-NH-S007(051)	1

FY09SP05

Standard Drg. Nos.

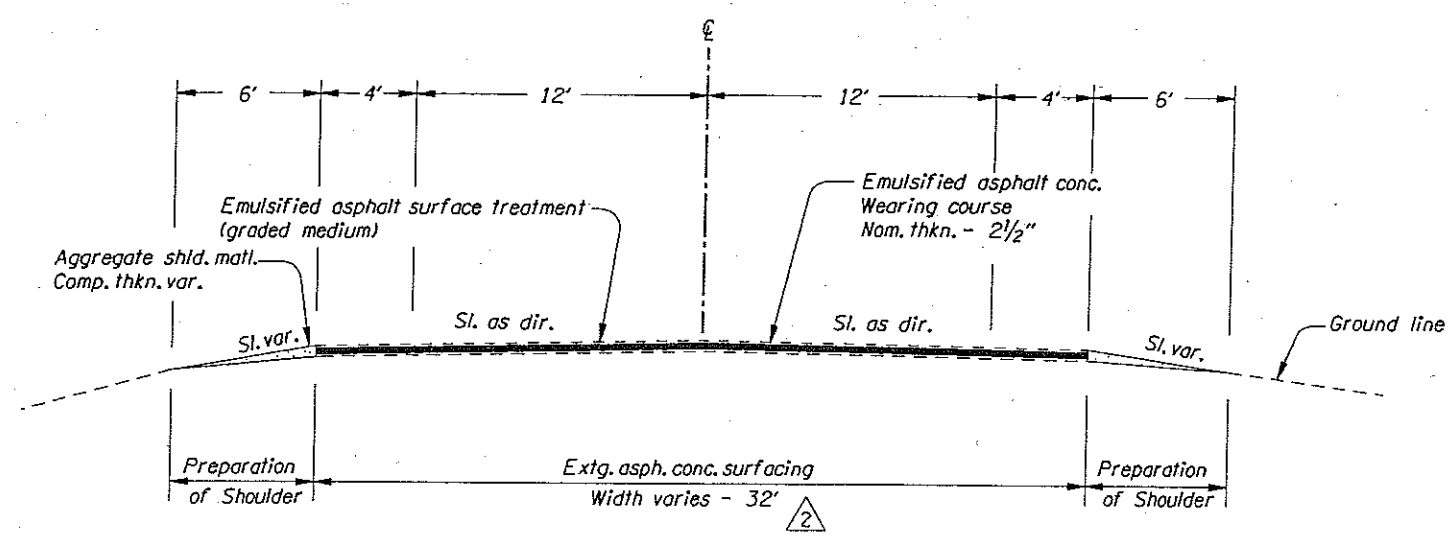
INDEX OF SHEETS, CONT'D.	
SHEET NO.	DESCRIPTION
2 & 2A	Typical Sections
2B Thru. 2B-3 Incl.	Details
3	General Construction
GEO/HYDRO/ENVIRO	
GM Thru. GM-2 Incl.	Prospective Material Source & Disposal Site
DRAWING NO.	DESCRIPTION
BRIDGE No. #3504A	
81623	Plan & Details
BRIDGE No. #3505A	
81624	Plan & Details
SHEET NO.	DESCRIPTION
PERMANENT SIGNING	
S-11142 Thru. S-11143 Incl.	Signing Plan
S-11144	Details
S-11145 Thru. S-11146 Incl.	Sign & Post Data Table

- ① RD400, RD405, RD410, RD415, RD420, RD450, RD470
 - RD610
 - BR233
 - TM200
 - TM201
 - TM204
 - TM221, TM222
 - TM223
 - TM570
 - TM576
 - TM670
 - TM671
 - TM676
 - TM700
 - TM710
 - TM740
 - TM775
- Guardrail
 - Asphalt Pavement Details
 - Standard Three-Beam Rail
 - Sign Installation Details
 - Miscellaneous Sign Placement Details
 - Flag Board Mounting Details
 - Milepost Marker Details
 - Directional Sign Layout
 - Traffic Delineators
 - Traffic Delineator Installation
 - Perm. Signing Wood Post Supports Sizing Charts
 - 3 Second Gust Wind Speed Isotach
 - Sign Attachments
 - Tables, Abrupt Edge And PCMS Details
 - 2-Lane, 2-Way Roadways
 - Blasting Zones
 - Temporary Sign Supports

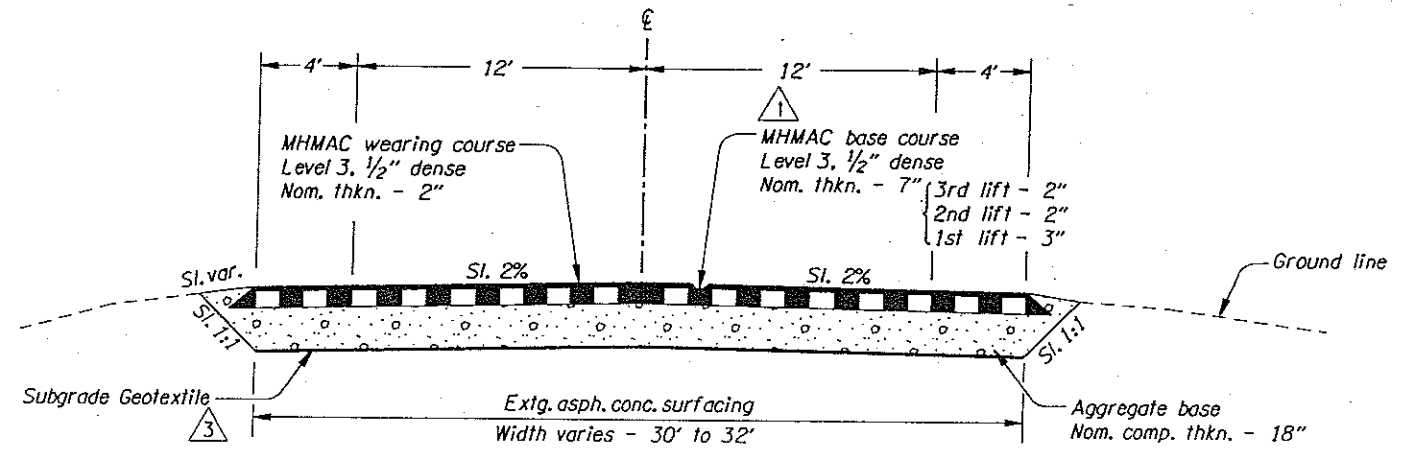
R/W Map No. 3B-25-27

REVISIONS		US20: BULGER CR - RILEY JCT. SEC. CENTRAL OREGON HIGHWAY HARNEY COUNTY		
①	4/9/2009 Added Standard Drg. Nos. RD420 & RD450	FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
②	4/9/2009 Change Index of sheets table	OREGON DIVISION	X-NH-S007(051)	1A

Standard Drawings located on the web at:
http://www.oregon.gov/ODOT/HWY/ENGSERVICES/standard_drawings_home.shtml



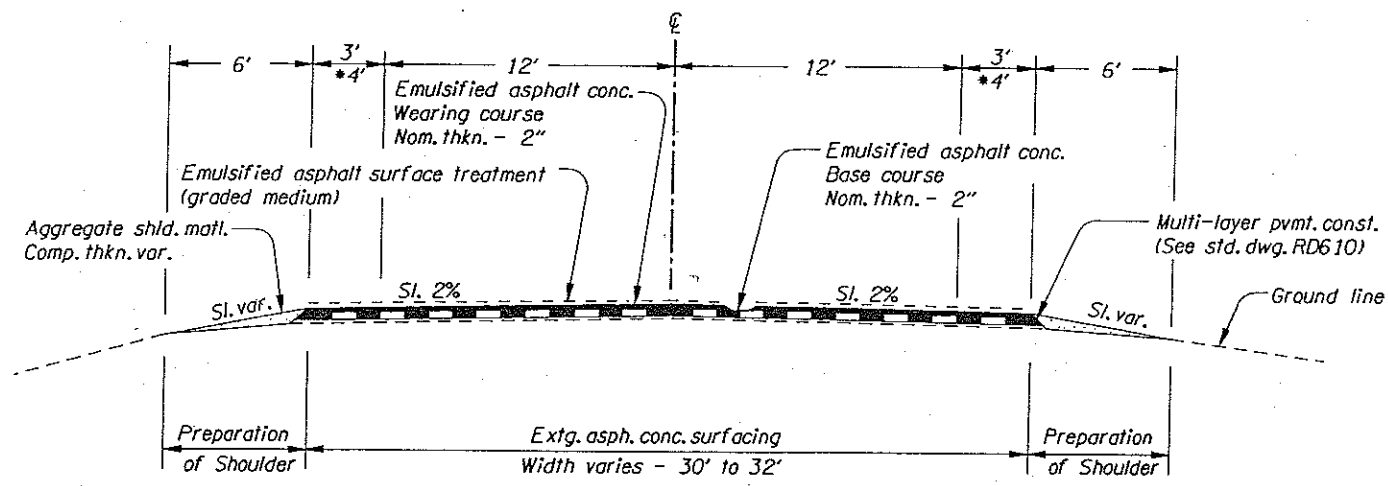
M.P. 90.900 To M.P. 94.950



M.P. 103.603 To M.P. 103.660
 103.660 To 103.680 (Structure)
 103.680 To 103.737

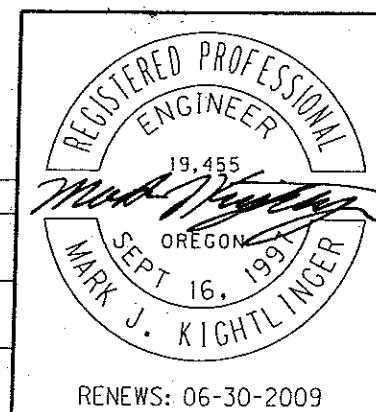
104.188 To 104.226
 104.226 To 104.234 (Structure)
 104.234 To 104.272

- NOTE:
 1. For AC pavement match at project ends, see drg. no. RD610
 2. Side-Slopes Are Shown As Vert. To Horiz.



M.P. *94.950 To M.P. 101.200
 101.200 To 103.603
 103.737 To 104.188
 104.272 To 104.500

REVISIONS	
△1	4/9/2009 Change Level 2 to Level 3
△2	4/9/2009 Change extg. pvmt. width
△3	4/9/2009 Added Subgrade Geotextile



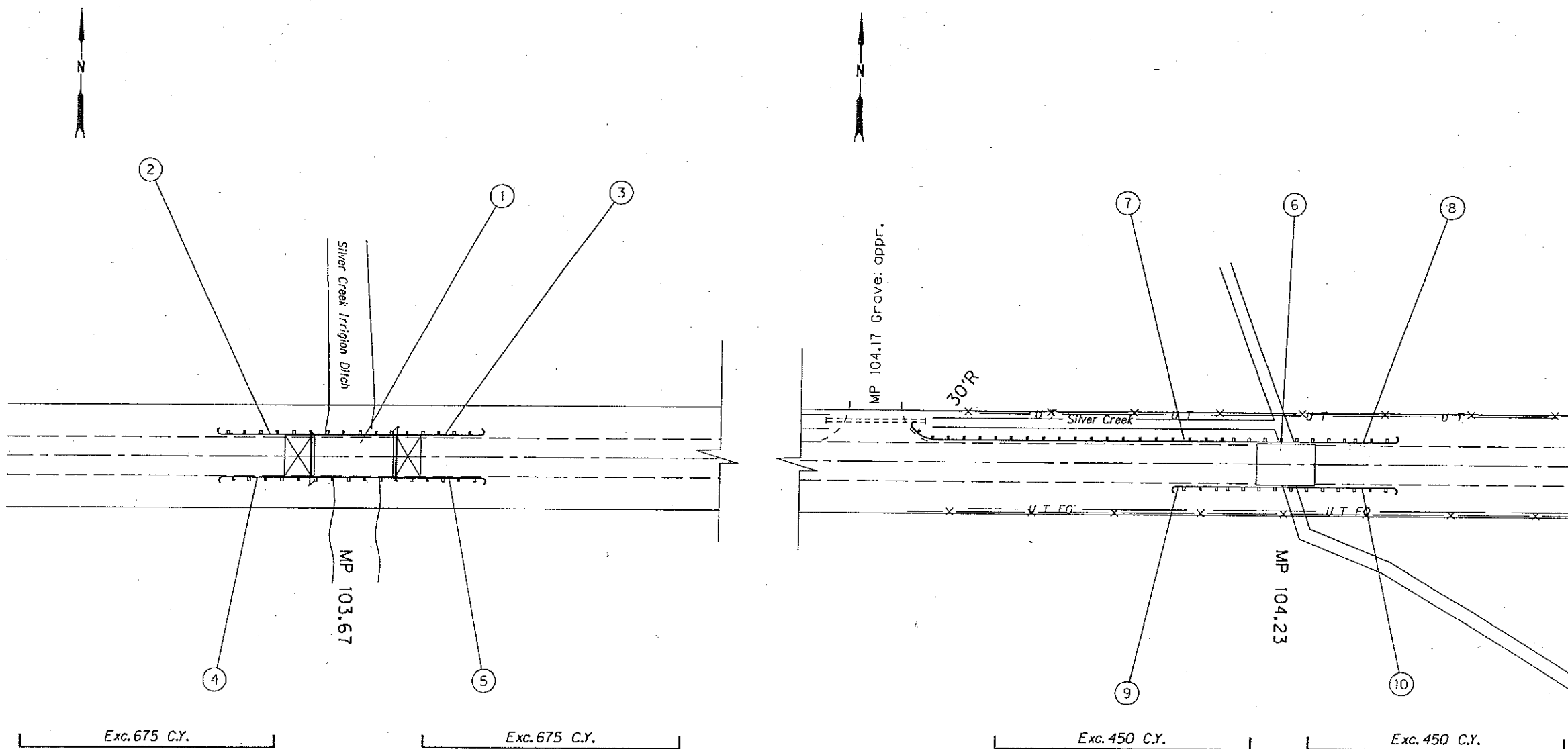
OREGON DEPARTMENT OF TRANSPORTATION

Region 5 Tech Center
 3012 Island Ave
 La Grande, OR 97850
 (541) 963-3177

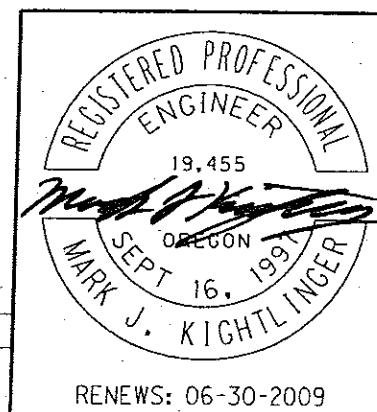
US20: BULGER CR - RILEY JCT. SEC.
 CENTRAL OREGON HIGHWAY
 HARNEY COUNTY

Design Team Leader - Thomas Glen Wallace
 Designed By - Mark J. Kightlinger
 Drafted By - Mark J. Kightlinger

TYPICAL SECTIONS	SHEET NO. 2
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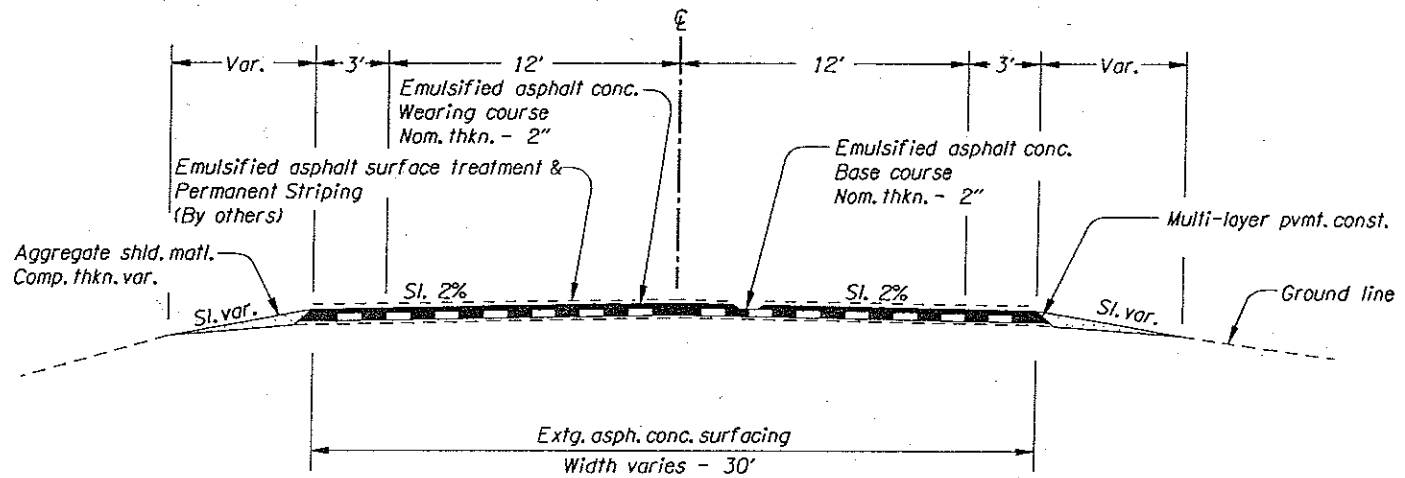
- ① MP 103.67
Structure no. 3504A
Install new bridge rail
Install waterproof membrane
(For drg. nos., see sht. 1A)
- ② Remove extg. guardrail - 62.5'
Const. guardrail - 12.5' (Type 3)
Const. guardrail transition
Const. guardrail terminal, non-flared
W=1', E=1'
(See drg. nos. RD400, RD405, RD410, RD415, RD420 & BR233)
- ③ Remove extg. guardrail - 62.5'
Const. guardrail - 12.5' (Type 3)
Const. guardrail transition
Const. guardrail terminal, non-flared
W=1', E=1'
- ④ Remove extg. guardrail - 62.5'
Const. guardrail - 12.5' (Type 3)
Const. guardrail transition
Const. guardrail terminal, non-flared
W=1', E=1'
- ⑤ Remove extg. guardrail - 62.5'
Const. guardrail - 12.5' (Type 3)
Const. guardrail transition
Const. guardrail terminal, non-flared
W=1', E=1'
- ⑥ MP 104.23
Structure no. 3505A
Install waterproof membrane
(For drg. nos., see sht. 1A)
- ⑦ Remove extg. guardrail - 37.5'
Const. guardrail 250' (Type 2A)
E=1'
Const. anchor - 2 (Type 1 Mod.)
Install end piece, Type B
(See drg. no RD450)
(For details, see sht. 2B-2) ⚠
- ⑧ Remove extg. guardrail - 37.5'
Const. guardrail terminal, non-flared
W=1', E=1'
(For details, see sht. 2B-2) ⚠
- ⑨ Remove extg. guardrail - 37.5'
Const. guardrail terminal, non-flared
W=1', E=1'
(For details, see sht. 2B-2) ⚠
- ⑩ Remove extg. guardrail - 37.5'
Const. guardrail terminal, non-flared
W=1', E=1'
(For details, see sht. 2B-2) ⚠



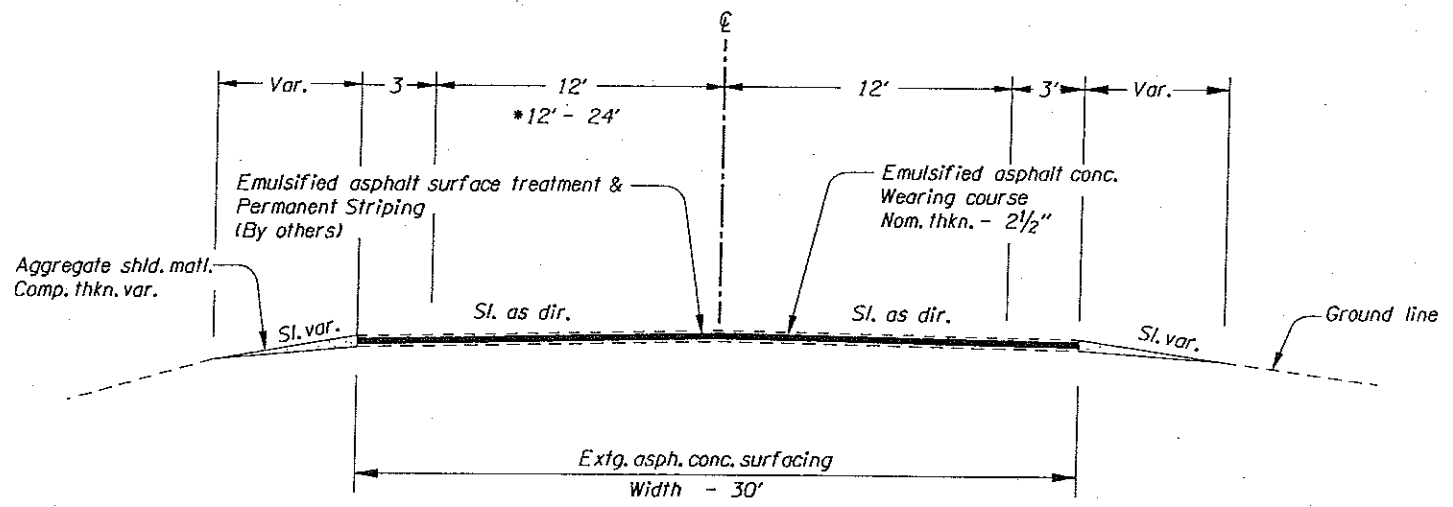
REVISIONS	
⚠	4/9/2009 Modified construction note

RENEWS: 06-30-2009

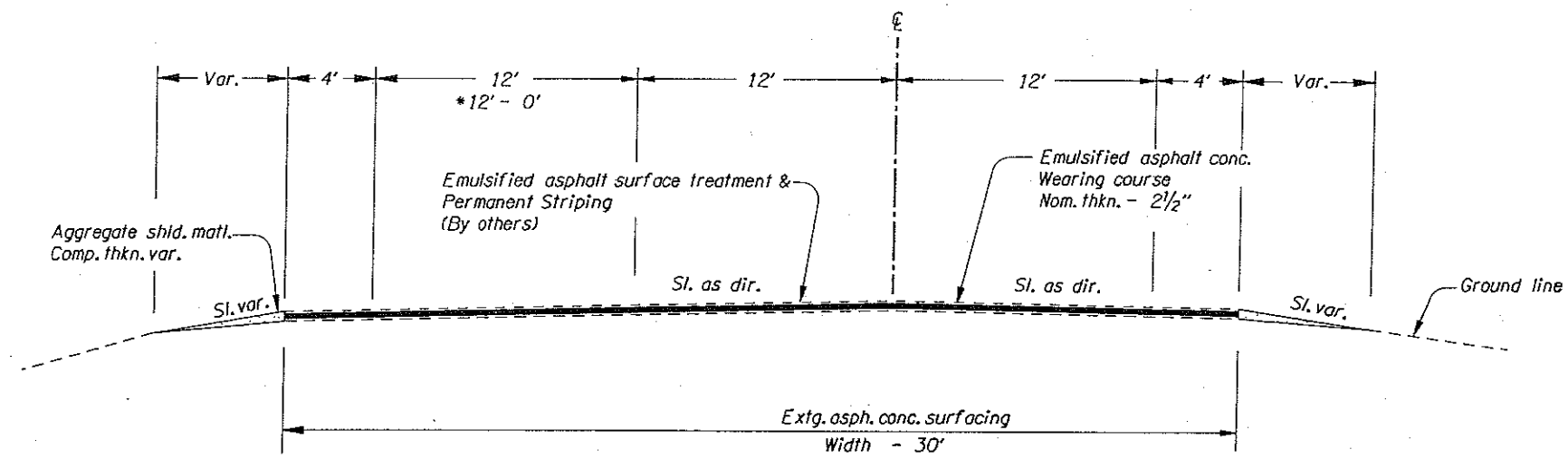
OREGON DEPARTMENT OF TRANSPORTATION	
 Region 5 Tech Center 3012 Island Ave La Grande, OR 97850 (541) 963-3177	
US20: BULGER CR - RILEY JCT. SEC. CENTRAL OREGON HIGHWAY HARNEY COUNTY	
Design Team Leader - Thomas Glen Wallace Designed By - Mark J. Kightlinger Drafted By - Mark J. Kightlinger	
GENERAL CONSTRUCTION	SHEET NO. 3



M.P. 105.000 To M.P. 105.540
 105.540 To 105.710 (No Work)
 105.710 To 106.520
 106.520 To 106.740 (No Work)



M.P. 106.740 To M.P. 115.48
 *115.480 To 115.550 (Taper Section)
 116.520 To 121.500



M.P. 115.550 To M.P. 116.520
 *116.520 To 116.520 (Taper Section)

NOTE:
 1. For AC pavement match at project ends, see drg. no. RD610
 2. All emulsified asphalt surface treatment & permanent striping will be by others between MP 105.00 To MP 121.50

OREGON DEPARTMENT OF TRANSPORTATION
 Region 5 Tech Center
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 La Grange, OR 97850
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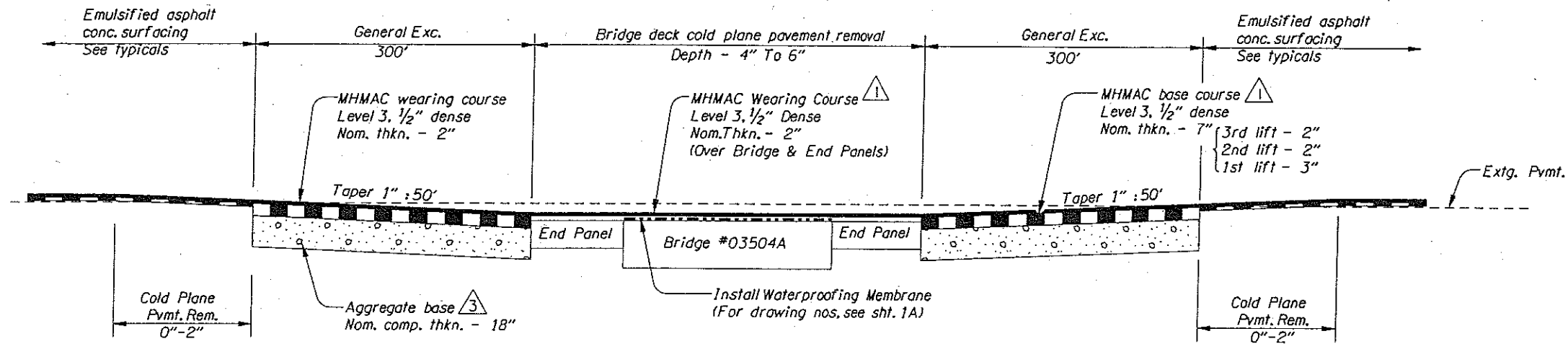
REGISTERED PROFESSIONAL ENGINEER
 19,455
 MARK J. KIGHTLINGER
 SEPT 16, 1991
 OREGON

US20: BULGER CR - RILEY JCT. SEC.
 CENTRAL OREGON HIGHWAY
 HARNEY COUNTY
 Design Team Leader - Thomas Glen Wallace
 Designed By - Mark J. Kightlinger
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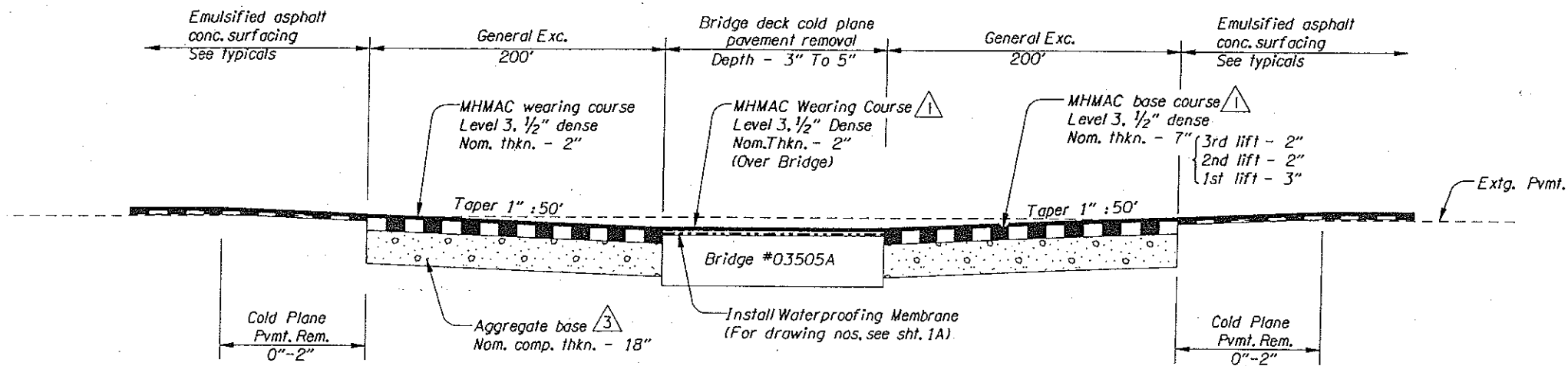
REVISIONS	
1	4/9/2009 New sheet added to plans

RENEWS: 06-30-2009

TYPICAL SECTIONS
 SHEET NO. 2A

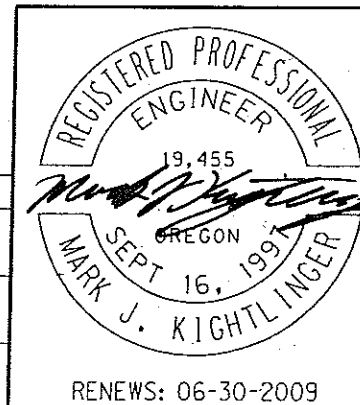


MP 103.603 To MP 103.737



MP 104.188 To MP 104.272

REVISIONS	
1	4/9/2009 Change Level 2 to Level 3
2	4/9/2009 Change sheet no. from 2A to 2B
3	4/9/2009 Added depth of base rock



OREGON DEPARTMENT OF TRANSPORTATION

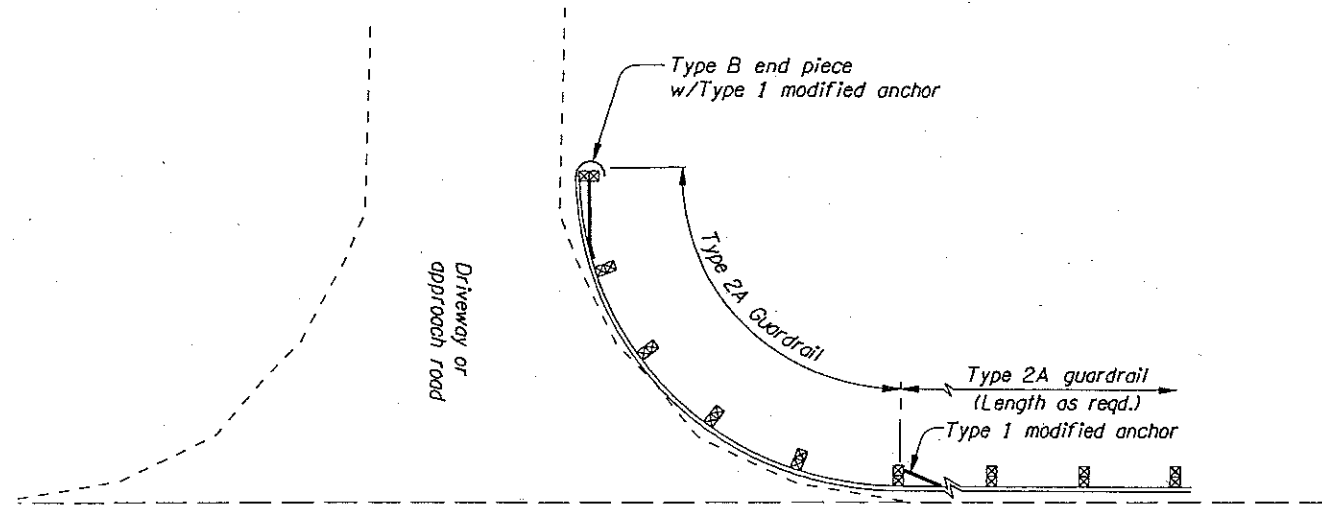
Region 5 Tech Center
3012 Island Ave
La Grande, OR 97850
(541) 963-3177

US20: BULGER CR - RILEY JCT. SEC.
CENTRAL OREGON HIGHWAY
HARNEY COUNTY

Design Team Leader - Thomas Glen Wallace
Designed By - Mark J. Kightlinger
Drafted By - Mark J. Kightlinger

DETAILS

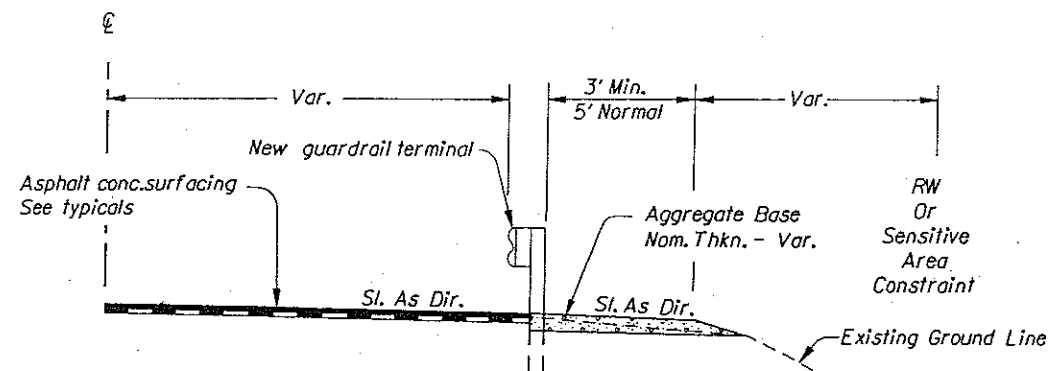
SHEET NO. 2B



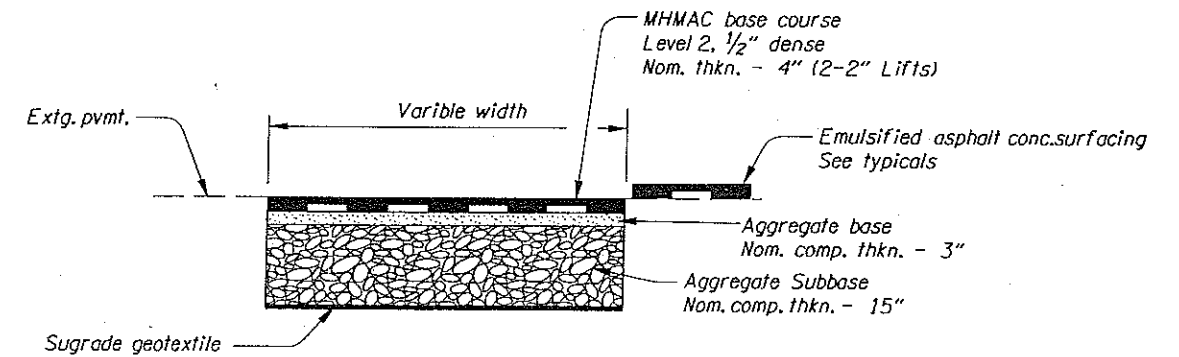
RADIUS RAIL DETAIL

M.P.	DESCRIPTION
MP 91.280 Rt.	Public Road, 42' wide x 8' deep
MP 94.660 Rt.	Public Road, 90' wide x 8' deep.
MP 95.055 Lt.	Public Road, 17' wide x 20' deep
MP 96.037 Rt.	Existing gravel turnout, 150' long x 15' wide
MP 99.127 Lt.	Public Road, 25' wide x 15' deep
MP 101.095 Lt.	ODOT Access Road, 10' wide x 15' deep
MP 102.256 Rt.	Existing gravel turnout, 400' long x 15' wide
MP 103.021 Lt.	Existing gravel turnout, 340' long x 20' wide
MP 103.148 Lt.	Public Road, 30' wide x 20' deep
MP 106.180 Lt.	Market Road.
MP 106.890 Rt.	Spud Road.
MP 108.180 Rt.	Public Road.
MP 108.270 Lt.	ODOT Quarry Road
MP 114.110 Rt.	Rest Area
MP 114.110 Lt.	Turnout, 300' long x 15' wide
MP 115.020 Lt.	Public Road.
MP 115.440 Lt.	Double O Ranch Road
MP 115.440 Rt.	Double O Ranch Road
MP 115.740 Rt.	Public Road.
MP 116.140 Lt.	Public Road.
MP 118.720 Lt.	Public Road.
MP 121.440 Rt.	Public Road.

Pave Guardrail Flares As Directed

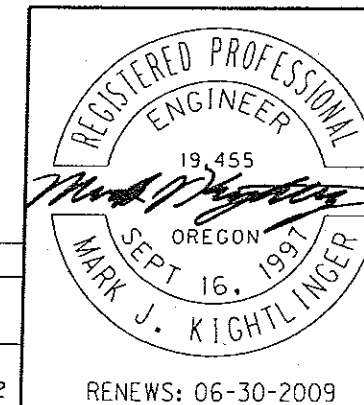


GUARDRAIL TERMINALS FLARES
(As Shown or Directed)



ASPHALT CONCRETE PAVEMENT REPAIR
Locations As Dir.

REVISIONS	
1	4/9/2009 Modified Approaches List
2	4/9/2009 Change sheet no. from 2A-2 to 2B-2



OREGON DEPARTMENT OF TRANSPORTATION

Region 5 Tech Center
3012 Island Ave
La Grande, OR 97850
15411963-3177

US20: BULGER CR - RILEY JCT. SEC.
CENTRAL OREGON HIGHWAY
HARNEY COUNTY

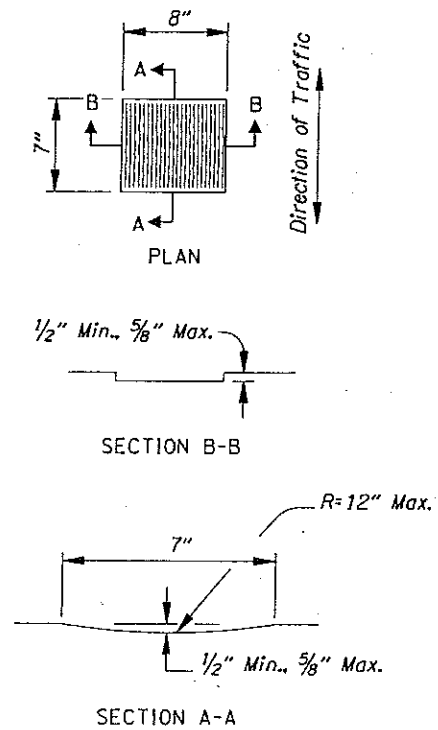
Design Team Leader - Thomas Glen Wallace
Designed By - Mark J. Kightlinger
Drafted By - Mark J. Kightlinger

DETAILS

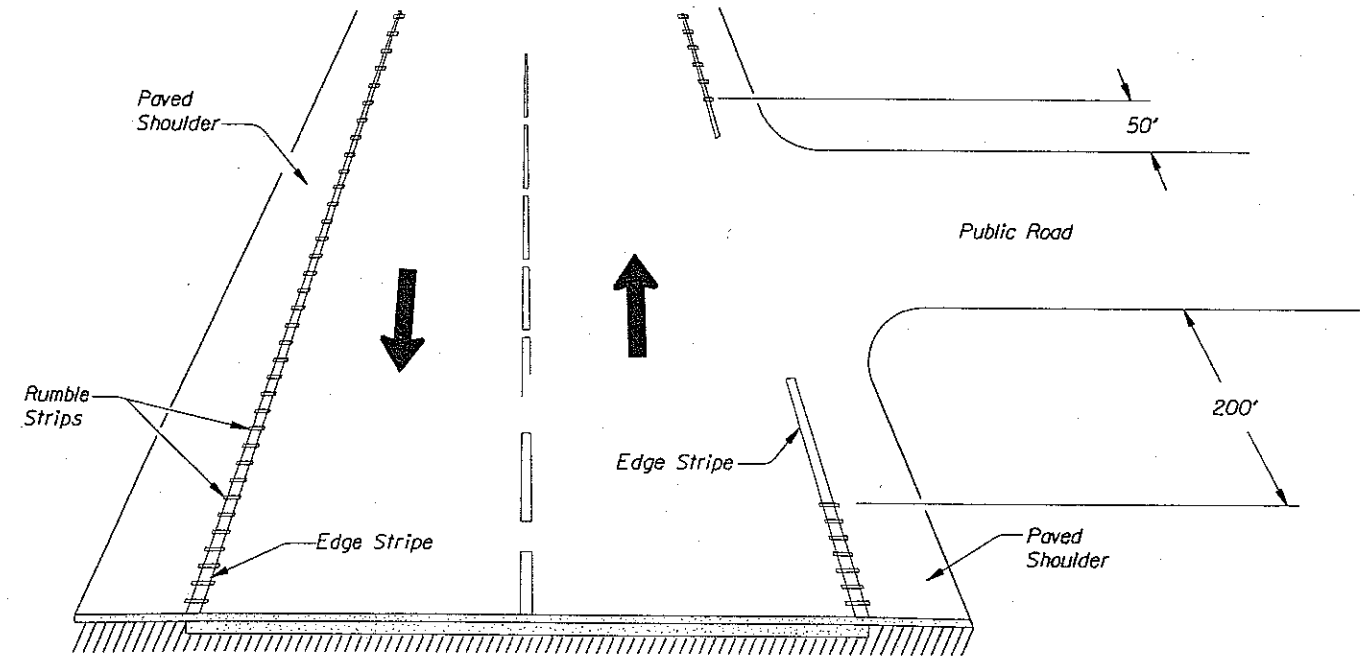
SHEET NO. **2B-2**

CONTINUOUS SHOULDER RUMBLE STRIPS

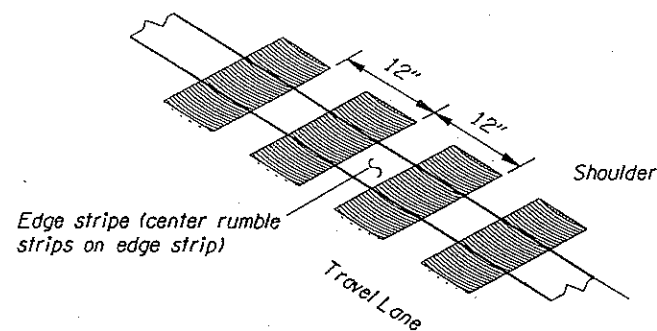
42V-98



RUMBLE STRIP GROOVE DETAIL



GENERAL VIEW



TYPICAL EDGE LINE INSTALLATION

General Note:

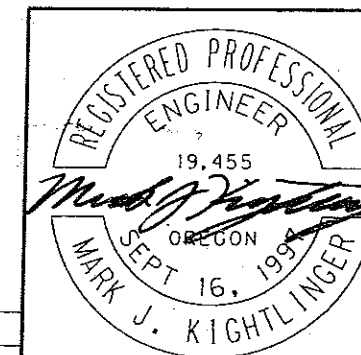
1. Do not install milled rumble strips within 200' in advance of an intersection with a public road or 50' after the intersection as shown.
2. Do not install rumble strips on bridge decks.
3. Const. rumble strip before applying emulsified asphalt surface treatment.

OREGON DEPARTMENT OF TRANSPORTATION

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Design Team Leader - Thomas Glen Wallace
Designed By - Mark J. Kightlinger
Drafted By - Mark J. Kightlinger



RENEWS: 06-30-2009

REVISIONS	
4/9/2009	Change sheet no. from 2A-3 to 2B-3

DETAILS

SHEET NO.
2B-3