



# Oregon

Theodore R. Kulongoski, Governor

Department of Transportation  
Technical Services  
Roadway Engineering Section  
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DATE: April 10, 2009

## Addenda No. 8

TO: PLAN HOLDERS

PREPARED BY:   
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Senior Specifications Writer

APPROVED BY:   
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Roadway Unit Manager

SUBJECT: I-405: Fremont Bridge - Marquam Bridge Section  
Stadium Freeway  
Multnomah County  
Paving, Guardrail, signing, Illumination & Ramp Meters 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>
0510	Continuously Reinforced Concrete Pavement Repair	500.00	140.00
1400	Removal of Curbs	2,783.00	2,800.00
1490	19 Inch Asphalt Concrete Pavement Repair	1,000.00	230.00

c. Deleted items:

<u>Number</u>	<u>Item</u>
0500	21 Inch Asphalt Concrete Pavement Repair

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**.

I-405: Fremont Bridge - Marquam Bridge  
Stadium Freeway  
Multnomah County  
Paving, Guardrail, Signing, Illumination and Ramp Meters  
(Bids to be opened and read April 16, 2009)

Addenda 8

**The following changes are made to the Project Plans:**

1. Plan sheets 1A, 2, 2B-2, 2B-3, 2B-6 and 2B-9 are replaced with revised plan sheets 1A, 2, 2B-2, 2B-3, 2B-6 and 2B-9.

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.

FH:MS

Attachments: New Bid Sheets  
Revised Plan Sheets

BID SCHEDULE

CONTRACT ID: 13993

PROJECT: I-405: FREMONT BRIDGE - MARQUAM  
BRIDGE

PROJECT KEY: 13704

ADDENDUM NUMBER: 8

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
SECTION 0001 TEMPORARY FEATURES AND APPURTENANCES				
0010	0100-0101000T TRAINING	2,100.00 HOUR	20.00	42000.00
0020	0210-0100000A MOBILIZATION	ALL LS		
0030	0225-0100000A TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	ALL LS		
0040	0225-0102000J TEMPORARY SIGNS	2,477.00 SQFT		
0050	0225-0105000E TEMPORARY BARRICADES, TYPE III	48.00 EACH		
0060	0225-0126000F TEMPORARY CONCRETE BARRIER, REFLECTORIZED	300.00 FOOT		
0070	0225-0132000F MOVING TEMPORARY CONCRETE BARRIER	320.00 FOOT		
0080	0225-0134000E TEMPORARY IMPACT ATTENUATOR, NARROW SITE SYSTEM	2.00 EACH		
0090	0225-0137000E MOVING TEMPORARY IMPACT ATTENUATORS, NARROW SITE SYSTEM	2.00 EACH		
0100	0225-0138000E TEMPORARY IMPACT ATTENUATOR, TRUCK MOUNTED	2.00 EACH		
0110	0225-0141300E REPAIR TEMPORARY IMPACT ATTENUATOR, NARROW SITE SYSTEM	4.00 EACH		

BID SCHEDULE

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ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0120	0225-0141400E REPAIR TEMPORARY IMPACT ATTENUATOR, TRUCK MOUNTED	EACH 1.00		
0130	0225-0145000E TEMPORARY PLASTIC DRUMS	EACH 459.00		
0140	0225-0149000E TEMPORARY FLEXIBLE PAVEMENT MARKERS	EACH 11,550.00		
0150	0225-0150000F TEMPORARY REMOVABLE TAPE	FOOT 8,400.00		
0160	0225-0153000F TEMPORARY STRIPING	FOOT 165,000.00		
0170	0225-0162000E SEQUENTIAL ARROW SIGNS	EACH 4.00		
0180	0225-0164000E PORTABLE CHANGEABLE MESSAGE SIGNS	EACH 6.00		
0190	0225-0168000T FLAGGERS	HOUR 1,060.00		
0200	0225-0168100T FLAGGER STATION LIGHTING	HOUR 1,060.00		
0210	0225-0169000E TRAFFIC CONTROL SUPERVISOR	EACH 136.00		
0220	0225-0172000T PILOT CARS	HOUR 100.00		
0230	0280-0100000A EROSION CONTROL	LS ALL		
0240	0290-0100000A POLLUTION CONTROL PLAN	LS ALL		

SECTION 0002 ROADWORK

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BRIDGE

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ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0250	0305-0100000A CONSTRUCTION SURVEY WORK	LS ALL		
0260	0310-0106000A REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS ALL		
0270	0310-0113000A REMOVAL OF GUARDRAIL	LS ALL		
0280	0330-9Z90000K GRANULAR BACKFILL	CUYD 930.00		

SECTION 0003 DRAINAGE AND SEWERS

0290	0490-0105000E ADJUSTING INLETS	EACH 127.00		
0300	0490-0120000E MINOR ADJUSTMENT OF MANHOLES	EACH 51.00		

SECTION 0004 BRIDGES

0310	0501-9Z90000A BRIDGE REMOVAL WORK, CANTILEVER SIGN BRIDGE, 1-405 MP 2.72S	LS ALL		
0320	0501-9Z90000A BRIDGE REMOVAL WORK, CANTILEVER SIGN BRIDGE, 16/COUCH	LS ALL		
0330	0501-9Z90000A BRIDGE REMOVAL WORK, CANTILEVER SIGN BRIDGE, HWY 2W, MP 1.13	LS ALL		
0340	0501-9Z90000A BRIDGE REMOVAL WORK, TRUSS SIGN BRIDGE, I-405, MP 0.76N	LS ALL		

BID SCHEDULE

CONTRACT ID: 13993

PROJECT: I-405: FREMONT BRIDGE - MARQUAM BRIDGE

PROJECT KEY: 13704

ADDENDUM NUMBER: 8

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0350	0501-9Z90000A BRIDGE REMOVAL WORK, TRUSS SIGN BRIDGE, I-405, MP 1.30N	LS ALL		
0360	0501-9Z90000A STRUCTURE MOUNT REMOVAL, BR NO 09250	LS ALL		
0370	0501-9Z90000A STRUCTURE MOUNT REMOVAL, BR NO 09161	LS ALL		
0380	0501-9Z90000A STRUCTURE MOUNT REMOVAL, BR NO 09254D	LS ALL		
0390	0501-9Z90000A STRUCTURE MOUNT REMOVAL, BR NO 09276	LS ALL		

SECTION 0005 BASES

0400	0620-0104000J COLD PLANE PAVEMENT REMOVAL, 0 - 2 INCHES DEEP	SQYD 12,000.00		
0410	0620-0118000J COLD PLANE PAVEMENT REMOVAL, 1 INCHES DEEP	SQYD 640.00		
0420	0620-9Z90000J DIAMOND GRIND CONCRETE PAVEMENT, 0 - 1 INCH DEEP	SQYD 2,533.00		
0430	0620-9Z90000J DIAMOND GRIND CONCRETE PAVEMENT, 0.5 INCH DEEP	SQYD 13,500.00		

SECTION 0006 WEARING SURFACES

0440	0730-0100000M EMULSIFIED ASPHALT FOR TACK COAT	TON 75.00		
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BRIDGE

PROJECT KEY: 13704

ADDENDUM NUMBER: 8

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0450	0745-0402000M LEVEL 4, 1/2 INCH DENSE HMAC	TON 4,300.00		
0460	0745-0403000M LEVEL 4, 3/8 INCH DENSE HMAC	TON 3,300.00		
0470	0745-0640000M PG 70-22 ASPHALT IN HMAC	TON 870.00		
0480	0745-0640000M PG 70-22ER ASPHALT IN LEVEL 4, 1/2 INCH LIME-TREATED SMA	TON 360.00		
0490	0745-9Z90000M LEVEL 4, 1/2 INCH LIME-TREATED SMA	TON 6,300.00		
0500	0000-0100000A DELETED BID ITEM	LS ALL	0.00	0.00
0510	0758-0100000J CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR	SQYD 140.00		
0520	0759-0128000J CONCRETE WALKS	SQFT 630.00		
0530	0759-0138000J 4 INCH CONCRETE SURFACING	SQFT 1,200.00		

SECTION 0007 PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVICES

0540	0810-0104000F GUARDRAIL, TYPE 2A	FOOT 2,312.50		
0550	0810-0120000E GUARDRAIL ANCHORS, TYPE 1 MODIFIED	EACH 4.00		

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BRIDGE

PROJECT KEY: 13704

ADDENDUM NUMBER: 8

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0560	0810-0122000E GUARDRAIL END PIECES, TYPE B	EACH 4.00		
0570	0810-0129000E GUARDRAIL TERMINALS, NON-FLARED	EACH 7.00		
0580	0840-0100000E DELINEATORS, TYPE 1	EACH 230.00		
0590	0840-0106000E MILEPOST MARKER POSTS	EACH 4.00		
0600	0865-0103000F THERMOPLASTIC, PROFILE, 120 MILS, EXTRUDED	FOOT 96,000.00		
0610	0867-0103000E PAVEMENT LEGEND, TYPE B: ARROWS	EACH 6.00		
0620	0867-0145000J PAVEMENT BAR, TYPE B	SQFT 530.00		

SECTION 0008 PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS

0630	0905-0100000A REMOVE EXISTING SIGNS	LS ALL		
0640	0905-0101000A REMOVE AND REINSTALL EXISTING SIGNS	LS ALL		
0650	0910-0100000K WOOD SIGN POSTS	FBM 1,680.00		
0660	0920-0100000A SIGN SUPPORT FOOTINGS I-405 AT MP 0.76N	LS ALL		
0670	0920-0100000A SIGN SUPPORT FOOTINGS I-405 AT MP 1.3 N	LS ALL		

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CONTRACT ID: 13993

PROJECT: I-405: FREMONT BRIDGE - MARQUAM  
BRIDGE

PROJECT KEY: 13704

ADDENDUM NUMBER: 8

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0680	0930-0101000A TRUSS SIGN BRIDGE, (I-405) AT MP 0.76N	LS ALL		
0690	0930-0101000A TRUSS SIGN BRIDGE, (I-405) AT MP 1.30N	LS ALL		
0700	0930-0104000A MONOTUBE CANTILEVER SIGN STRUCTURES, I-405 AT MP 2.72S	LS ALL		
0710	0930-0104000A MONOTUBE CANTILEVER SIGN STRUCTURES, US 30 AT MP 1.13	LS ALL		
0720	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 11 (NW EVERETT NB)	LS ALL		
0730	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 151 (BURNSIDE NB)	LS ALL		
0740	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 21 (14TH NB)	LS ALL		
0750	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 23 (SW YAMHILL NB)	LS ALL		
0760	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 23 (SW YAMHILL SB)	LS ALL		
0770	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 34 (SW JEFFERSON NB)	LS ALL		
0780	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 37 (MARKET NB)	LS ALL		

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ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0790	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 6 (NW GLISAN NB)	LS ALL		
0800	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 6 (NW GLISAN SB)	LS ALL		
0810	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 98 (ALDER NB)	LS ALL		
0820	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 98 (ALDER SB)	LS ALL		
0830	0930-0105000A BRIDGE STRUCTURE MOUNTS, STRUCTURE NO. 09156	LS ALL		
0840	0930-0105000A BRIDGE STRUCTURE MOUNTS, STRUCTURE NO. 09159	LS ALL		
0850	0930-0105000A BRIDGE STRUCTURE MOUNTS, STRUCTURE NO. 09161	LS ALL		
0860	0930-0105000A BRIDGE STRUCTURE MOUNTS, STRUCTURE NO. 09250	LS ALL		
0870	0930-0105000A BRIDGE STRUCTURE MOUNTS, STRUCTURE NO. 09254D	LS ALL		
0880	0930-0105000A BRIDGE STRUCTURE MOUNTS, STRUCTURE NO. 09254G	LS ALL		
0890	0930-0105000A BRIDGE STRUCTURE MOUNTS, SIGN NO 166 (NW GLISAN NB)	LS ALL		
0900	0000-0100000A DELETED BID ITEM	LS ALL	0.00	0.00
0910	0930-0106000A EXIT NUMBER SIGN MOUNTS	LS ALL		

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ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0920	0930-0107000A SIGNAL POLE MOUNTS	LS ALL		
0930	0930-0112000A TRIANGULAR BASE BREAKAWAY SIGN SUPPORTS	LS ALL		
0940	0930-0117000A SQUARE TUBE SIGN SUPPORTS	LS ALL		
0950	0930-9Z90000A SIGN BRIDGE SUPPORT ON BRIDGE STRUCTURE, I-405 AT MP 2.72S	LS ALL		
0960	0930-9Z90000A SIGN BRIDGE SUPPORT ON BRIDGE STRUCTURE, US 30 AT MP 1.13	LS ALL		
0970	0930-9Z90000A SIGN MOUNT ON EXISTING SIGN BRIDGE, I-405 AT MP 2.59	LS ALL		
0980	0930-9Z90000A SIGN MOUNT ON EXISTING SIGN BRIDGE, I-405 AT MP 2.72N	LS ALL		
0990	0930-9Z90000A SIGN SUPPORT ON BRIDGE STRUCTURE, I-405 AT MP 2. 59	LS ALL		
1000	0940-0102000J TYPE "B" SIGNS IN PLACE	SQFT 100.00		
1010	0940-0104000J TYPE "B2" SIGNS IN PLACE	SQFT 27.00		
1020	0940-0109000J TYPE "F" SIGNS IN PLACE	SQFT 65.00		
1030	0940-0109100J TYPE "F1" SIGNS IN PLACE	SQFT 30.00		

BID SCHEDULE

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PROJECT KEY: 13704

ADDENDUM NUMBER: 8

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
1040	0940-0113000J TYPE "G" SIGNS IN PLACE	SQFT 442.00		
1050	0940-0114000J TYPE "G1" SIGNS IN PLACE	SQFT 6,156.00		
1060	0940-0124000J TYPE "W1" SIGNS IN PLACE	SQFT 165.00		
1070	0940-0130000J TYPE "W7" SIGNS IN PLACE	SQFT 115.00		
1080	0940-0134000J TYPE "Y1" SIGNS IN PLACE	SQFT 330.00		
1090	0940-0136000J TYPE "Y3" SIGNS IN PLACE	SQFT 600.00		
1100	0950-0101000A REMOVAL OF ELECTRICAL SYSTEMS, PERMANENT SIGNING	LS ALL		
1110	0950-0101000A REMOVAL OF ELECTRICAL SYSTEMS, 16TH AVENUE TUNNEL	LS ALL		
1120	0950-0101000A REMOVAL OF ELECTRICAL SYSTEMS, I-405 AND US26	LS ALL		
1130	0950-0101000A REMOVAL OF ELECTRICAL SYSTEMS, TAYLOR ST TUNNEL	LS ALL		
1140	0950-0101000A REMOVAL OF ELECTRICAL SYSTEMS, US26 TO I-405 NB TUNNEL	LS ALL		
1150	0970-0100000A POLE FOUNDATIONS, I-405 AND US 26	LS ALL		

BID SCHEDULE

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BRIDGE

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ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
1160	0970-0100000A POLE FOUNDATIONS, US 26 TO I-405 NB TUNNEL	LS ALL		
1170	0970-0100000A POLE FOUNDATIONS, WALL MOUNT, I-405 AND US 26	LS ALL		
1180	0970-0101000A LIGHTING POLES, FIXED BASE, I-405 AND US 26	LS ALL		
1190	0970-0102000A LIGHTING POLES, SLIP BASE, I-405 AND US 26	LS ALL		
1200	0970-0102000A LIGHTING POLES, SLIP BASE, US 26 TO I-405 NB TUNNEL	LS ALL		
1210	0970-0103000A LIGHTING POLE ARMS, I-405 AND US 26	LS ALL		
1220	0970-0103000A LIGHTING POLE ARMS, US 26 TO I-405 NB TUNNEL	LS ALL		
1230	0970-0104000A LUMINAIRES, LAMPS, AND BALLASTS, 16TH AVENUE TUNNEL	LS ALL		
1240	0970-0104000A LUMINAIRES, LAMPS, AND BALLASTS, I-405 AND US 26	LS ALL		
1250	0970-0104000A LUMINAIRES, LAMPS, AND BALLASTS, TAYLOR ST TUNNEL	LS ALL		
1260	0970-0104000A LUMINAIRES, LAMPS, AND BALLASTS, US 26 TO I-405 NB TUNNEL	LS ALL		
1270	0970-0105000A SWITCHING, CONDUIT, AND WIRING, I-405 AND US 26	LS ALL		

BID SCHEDULE

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ADDENDUM NUMBER: 8

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
1280	0970-0105000A SWITCHING, CONDUIT, AND WIRING, TAYLOR ST TUNNEL	LS	ALL	
1290	0970-0105000A SWITCHING, CONDUIT, AND WIRING, 16TH AVENUE TUNNEL	LS	ALL	
1300	0970-0105000A SWITCHING, WIRING, AND CONDUIT, US 26 TO I-405 NB TUNNEL	LS	ALL	
1310	0990-0103000A LOOP DETECTOR INSTALLATION, I-405 @ BROADWAY AVE SB RAMP	LS	ALL	
1320	0990-0103000A LOOP DETECTOR INSTALLATION, I-405 @ COUCH ST NB RAMP	LS	ALL	
1330	0990-0103000A LOOP DETECTOR INSTALLATION, I-405 @ EVERETT ST SB RAMP	LS	ALL	
1340	0990-0103000A LOOP DETECTOR INSTALLATION, I-405 @ GLISAN ST NB RAMP	LS	ALL	
1350	0990-0103000A LOOP DETECTOR INSTALLATION, I-405 @ MONTGOMERY ST SB RAMP	LS	ALL	
1360	0990-0103000A LOOP DETECTOR INSTALLATION, I-405 @ TAYLOR ST SB RAMP	LS	ALL	
1370	0990-0103000A LOOP DETECTOR INSTALLATION, I-405 @ SW FIFTH AVENUE SB RAMP	LS	ALL	
1380	0990-0107000A AUTOMATIC TRAFFIC RECORDER INSTALLATION	LS	ALL	

SECTION 0009 ADDED BID ITEMS

BID SCHEDULE

CONTRACT ID: 13993

PROJECT: I-405: FREMONT BRIDGE - MARQUAM  
BRIDGE

PROJECT KEY: 13704

ADDENDUM NUMBER: 8

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
1390	0280-0114000E INLET PROTECTION	EACH 127.00		
1400	0310-0101000F REMOVAL OF CURBS	FOOT 2,800.00		
1410	0310-0102000J REMOVAL OF WALKS AND DRIVEWAYS	SQYD 70.00		
1420	0490-0100000E ADJUSTING BOXES	EACH 2.00		
1430	0620-0116000J COLD PLANE PAVEMENT REMOVAL, 1/2 INCHES DEEP	SQYD 4,000.00		
1440	0620-0118000J COLD PLANE PAVEMENT REMOVAL, 1 INCHES DEEP	SQYD 640.00		
1450	0620-0120000J COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP	SQYD 5,300.00		
1460	0620-0121000J COLD PLANE PAVEMENT REMOVAL, 2-1/2 INCHES DEEP	SQYD 6,200.00		
1470	0620-0122000J COLD PLANE PAVEMENT REMOVAL, 3 INCHES DEEP	SQYD 28,500.00		
1480	0745-0302000M LEVEL 3, 1/2 INCH DENSE HMAC	TON 7,400.00		
1490	0748-0111000J 19 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD 230.00		
1500	0759-0110000F CONCRETE CURBS, STANDARD CURB	FOOT 120.00		

BID SCHEDULE

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1510	0759-0106000F CONCRETE CURBS, LOW PROFILE MOUNTABLE CURB	2,783.00 FOOT		
1520	0810-0126000E GUARDRAIL TRANSITION	3.00 EACH		
1530	0840-0104100E DELINEATORS, TYPE 4 ALTERNATE 1	30.00 EACH		
1540	0840-0105000E DELINEATORS, TYPE 5	20.00 EACH		
1550	0501-9Z90000A STRUCTURE MOUNT REMOVAL, BR NO 09252	ALL LS		
1560	0501-9Z90000A STRUCTURE MOUNT REMOVAL, BR NO 09284	ALL LS		
1570	0501-9Z90000A STRUCTURE MOUNT REMOVAL, BR NO 09282A	ALL LS		
1580	0503-0101000J BRIDGE DECK COLD PLANE PAVEMENT REMOVAL, 0-2 INCHES DEEP	594.00 SQYD		
1590	0584-0100000F ELASTOMERIC CONCRETE NOSING	71.00 FOOT		
1600	0585-0106000A POURED JOINT SEALS	ALL LS		
1610	0851-0101000F PAVEMENT LINE REMOVAL	70,000.00 FOOT		
	TOTAL BID			

INDEX OF SHEETS, CONT'D.

SHEET NO.	DESCRIPTION
2, 2A Thru 2A-19	Typical Sections
2B Thru 2B-10	Details
2C Thru 2C-28	Traffic Control
3 Thru 11, Incl. 7A	General Construction
<b>PERMANENT SIGNING</b>	
S-11034 Thru S-11045	Sign Installation Plan
S-11046 Thru S-11057	Sign Details
S-11058 Thru S-11066	Sign and Post Data Table
<b>ILLUMINATION</b>	
I-1532	Tunnel Illumination Legend
I-1533 Thru I-1535	Tunnel Luminaire Table
I-1536 Thru I-1540	Tunnel Illumination Plan
I-1541 Thru I-1546	Tunnel Illumination Details
I-1547	Illumination Legend
I-1548 Thru I-1551	Luminaire Table
I-1552 Thru I-1559	I-405 Illumination Plan
I-1560 Thru I-1567	I-405 Illumination Removal Plan
I-1568 Thru I-1572	Illumination Details
<b>TRAFFIC SIGNALS</b>	
15146	Ramp Meter Legend
15147 Thru 15155	Ramp Meter Plan
26-00501	NB Traffic Recorder Plan Legend
26-00503A	SB Traffic Recorder Plan Legend
<b>MONOTUBE CANTILEVER SIGN SUPPORT @ MP 1.13 US 30</b>	
81281	Elevation
81282	Mounting Plate and Corbel Details
<b>SIGN BRIDGE @ MP 0.76 NB</b>	
S-11031	Plan and Elevation
<b>STRUCTURE MOUNT @ MP 1.00 NB</b>	
81284	Plan and Elevation
81285	Sign Mount Details
<b>STRUCTURE MOUNT @ MP 1.10 NB</b>	
81286	Plan and Elevation
81287	Sign Mount Details
<b>STRUCTURE MOUNT @ MP 1.18 NB</b>	
81288	Plan and Elevation
81289	Sign Mount Details
<b>SIGN BRIDGE @ MP 1.30 NB</b>	
S-11032	Plan and Elevation
S-11033	Foundation Details

INDEX OF SHEETS, CONT'D.

SHEET NO.	DESCRIPTION
<b>STRUCTURE MOUNT @ MP 1.60 SB</b>	
81292	Plan and Elevation
81293 & 81294	Sign Mount Details
<b>STRUCTURE MOUNT @ MP 1.62 NB</b>	
81295	Plan and Elevation
81296 & 81297	Sign Mount Details
<b>STRUCTURE MOUNT @ MP 1.92 NB</b>	
81298	Plan and Elevation
81299	Sign Mount Details
<b>SIGN TRUSS BRIDGE, HWY 61 @ MP 2.59</b>	
81300	Plan and Elevation
81301	Corbel Details
81302	Sign Support Details
<b>MONOTUBE CANTILEVER SIGN SUPPORT @ MP 2.72 SB</b>	
81303	Elevation
81304	Corbel and Sign Mounting Details
<b>LUMINAIRE FOUNDATION DETAILS (Sta. 409+00 to Sta. 495+00)</b>	
81305 - 81306	Luminaire Structural Details
<b>SIGN MOUNTS</b>	
81445	Structure Mount Details
<b>STRUCTURE MOUNT @ MP 2.20</b>	
81449	Plan and Elevation
81450	Sign Mount Details
<b>STRUCTURE MOUNT @ MP 2.45 NB</b>	
81452	Plan, Elevation & Details
<b>BRIDGE NO. 09254G</b>	
81676	Deck Overlay & Joint Repair

Standard Drg. Nos.

BR140	- Expansion Joints
BR203	- Standard Transition Concrete Bridge Rail To Guardrail
RD200	- Roadway Cross Slopes Superelevated Sections
RD360	- Manhole Frame Adjustment
RD376	- Miscellaneous Drainage Structures
RD400, RD405, RD415, RD420, RD450	- Guardrail
RD535	- Concrete Barrier (Modified) Around Median Obstacle
RD600	- Portland Cement Concrete Pavement
RD610	- Asphalt Pavement Details
RD700	- Curbs
RD755	- Sidewalk Ramp Details
RD759	- Truncated Dome Details And Locations
RD1010	- Inlet Protection
TM200	- Sign Installation Details
TM201	- Miscellaneous Sign Placement Details
TM211	- Signing Details
TM220	- Multi-Post Installations
TM221, TM222	- Milepost Marker Details
TM224	- Directional Sign Layout
TM225	- Exit Number & Gore Signing Details
TM230, TM231, TM232, TM233	- Mounting Details For Removable Legend
TM302	- Pad-Mount Illumination Control Cabinet

Standard Drg. Nos. Cont.

TM472	- Traffic Signal Junction Boxes
TM475	- Loop Details
TM480	- Loop Entrance Details
TM482	- Controller Cabinet And Foundation Details
TM497	- Ramp Meter Layout And Details
TM499	- Maintenance Pad Details
TM500, TM501, TM502, TM503	- Pavement Marking Standard Details
TM520	- Durable Pavement Markings
TM525	- Turn Arrow Marking Details
TM530	- Intersection Pavement Markings
TM547	- Freeway Entrance Ramp Pavement Markings
TM551	- Freeway Exit Ramp Pavement Markings
TM570	- Traffic Delineators
TM571	- Traffic Delineators Steel Post Details
TM575, TM576, TM577	- Traffic Delineator Installation
TM602	- Triangular Base Breakaway Multi-Direction Slip Base
TM614, TM615, TM616, TM617, TM618	- Standard Truss Type Sign Bridge
TM622, TM625	- Standard Monotube Cantilever Sign Support
TM635	- Breakaway Sign & Luminaire Supports
TM670	- Perm. Signing Wood Post Supports Sizing Charts
TM671	- 3 Second Gust Wind Speed Isotach
TM675	- Extruded Aluminum Panels
TM676	- Sign Attachments
TM677	- Sign Mounts
TM678	- Secondary Sign Mounting Details
TM680	- Signal Pole Mounts
TM681, TM684	- Square Tube Sign Supports
TM700	- Tables, Abrupt Edge And PCMS Details
TM705	- Intersection Work Zone Details
TM720, TM725, TM730	- Freeway Sections
TM750	- Temporary Barricades
TM765	- Signalized Intersection Details
TM775	- Temporary Sign Supports
TM780	- Closure Details

No R/W Map

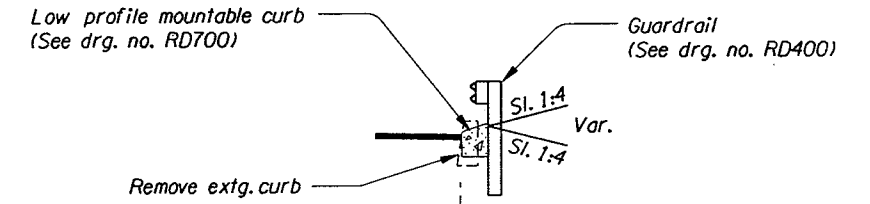
1 Added bridge drawing. Updated standard drawings. 3/09 S.F.

2 Added RD535. 4/09 S.F.

**I-405: FREMONT BRIDGE - MARQUAM BRIDGE SEC.**  
STADIUM FREEWAY  
MULTNOMAH COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	IM-S061(009)	1A

Standard Drawings located on the web at:  
[http://www.oregon.gov/ODOT/HWY/ENGSERVICES/standard\\_drawings\\_home.shtml](http://www.oregon.gov/ODOT/HWY/ENGSERVICES/standard_drawings_home.shtml)



STA. "L" 397+15 To STA. "L" 399+25

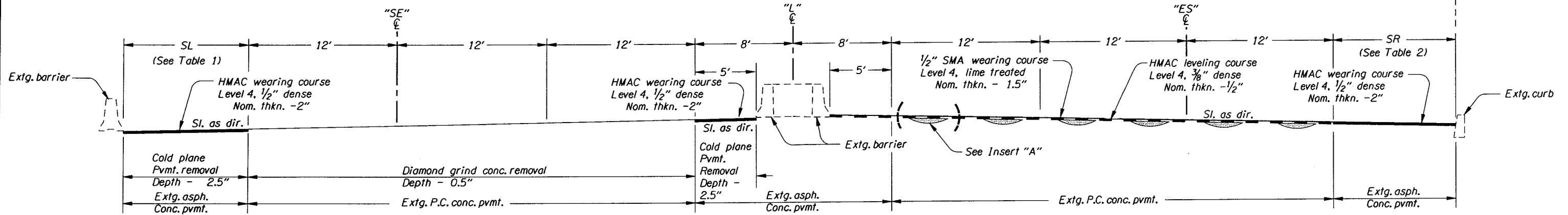


TABLE 1

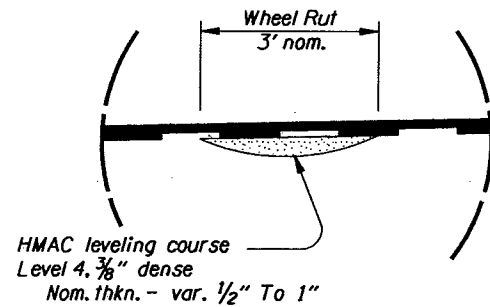
STA. To STA.	SL (FT.)
"SE" 395+56 "L" 396+79	24 To 27
"L" 396+79 "L" 403+10	10

STA. "SE" 395+56.00 To STA. "SE" 395+82.72  
 "L" 396+24.08 To "L" 403+10.00

TABLE 2

STA. To STA.	SR (FT.)
"SE" 395+56 "L" 396+58	40 To 44
"L" 396+58 "L" 403+10	10

- NOTE:
1. Side-slopes are shown as vert. to horiz.
  2. For standard superelevation, see drg. no. RD200.
  3. Curb paving detail, see sht. 2B-2.
  4. Pavement transition details, see shts. 2B, 2B6, 2B7 & 2B-8.



INSERT "A"  
Travel Lanes

REVISIONS

Sheet redrawn, 3/09 S.F.



RENEWAL DATE: 6-30-2009

**OREGON DEPARTMENT OF TRANSPORTATION**

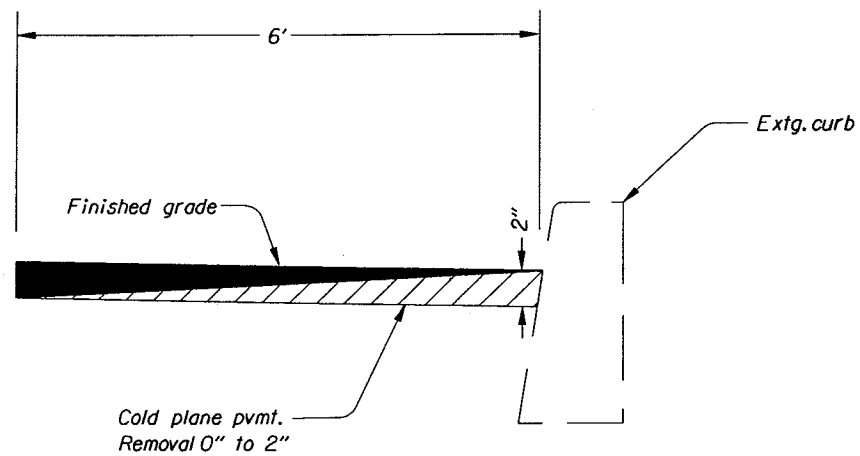
REGION 1 - ROADWAY ENGINEERING SECTION

**I-405: FREMONT BRIDGE - MARQUAM BRIDGE SEC.**  
STADIUM FREEWAY  
MULTNOMAH COUNTY

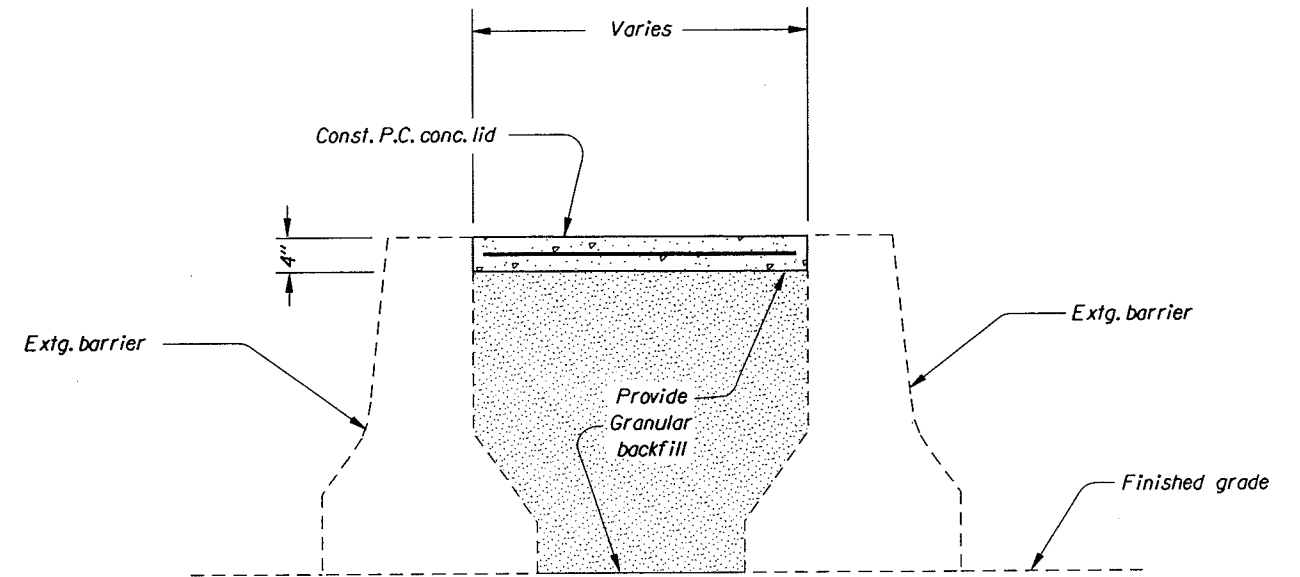
Design Team Leader - Larry Kretzler  
Designed By - Rene Renteria & Vidal Francis  
Drafted By - Marco Singer & Scott Falmezger

**TYPICAL SECTIONS**

SHEET NO.  
**2**



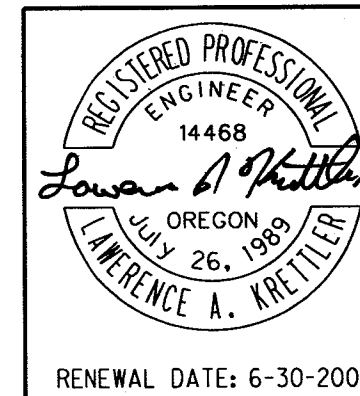
CURB PAVING DETAIL



BARRIER BACKFILL  
 STA. "L" 471+80 TO STA. "L" 496+40  
 (For details not shown, see drg. no. RD535)

REVISIONS

- 1 6' width added to curb detail.  
Changed barrier backfill. 3/09 S.F.
- 2 Added standard drawing reference. Removed  
exposed aggregate label. 4/09 S.F.



**OREGON DEPARTMENT OF TRANSPORTATION**

REGION 1 - ROADWAY ENGINEERING SECTION

**I-405: FREMONT BRIDGE - MARQUAM BRIDGE SEC.**  
 STADIUM FREEWAY  
 MULTNOMAH COUNTY

Design Team Leader - Larry Krettlar  
 Designed By - Vicki Taylor & Scott Failmezger  
 Drafted By - Marco Singer & Scott Failmezger

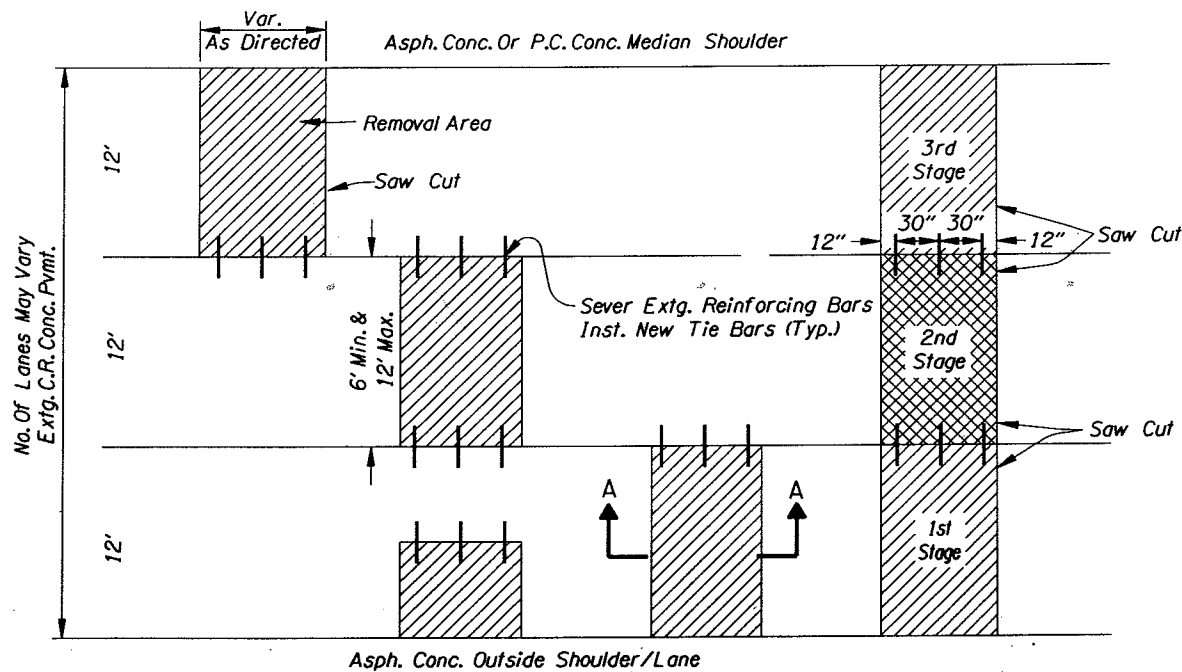
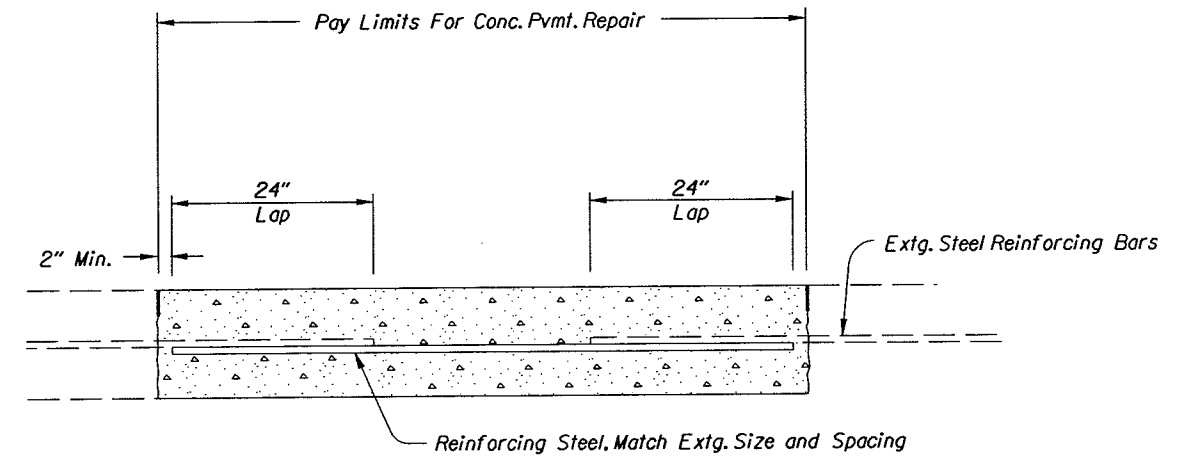
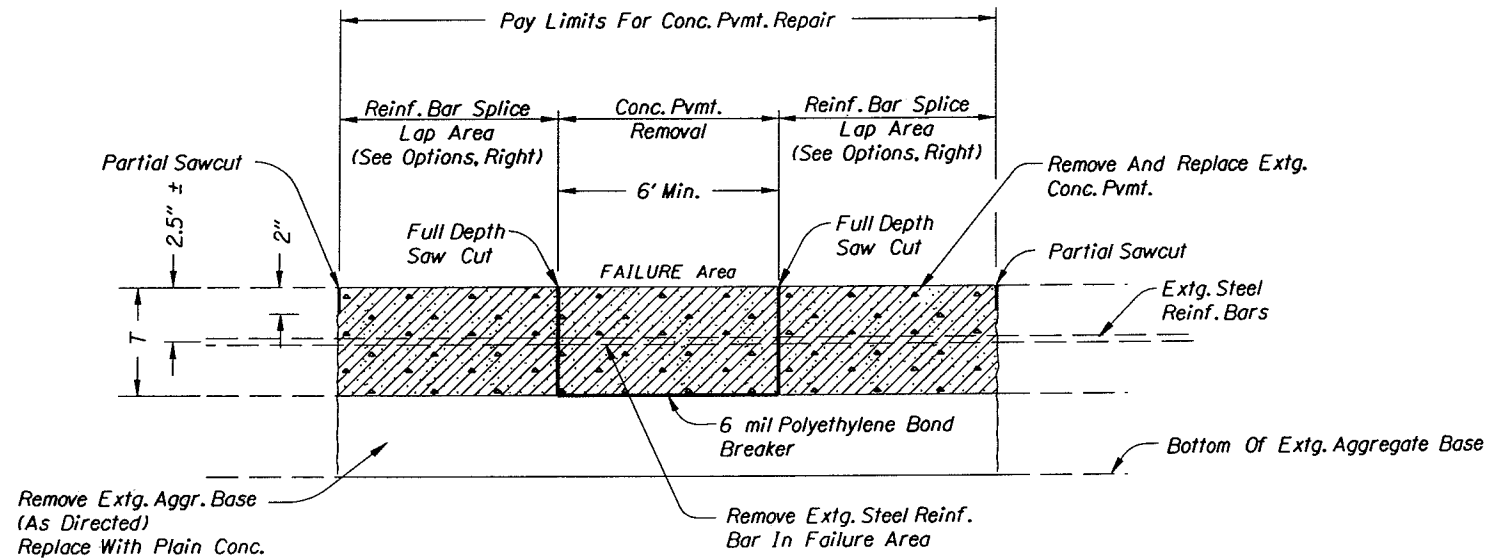
**DETAILS**

SHEET  
 NO.  
**2B-2**

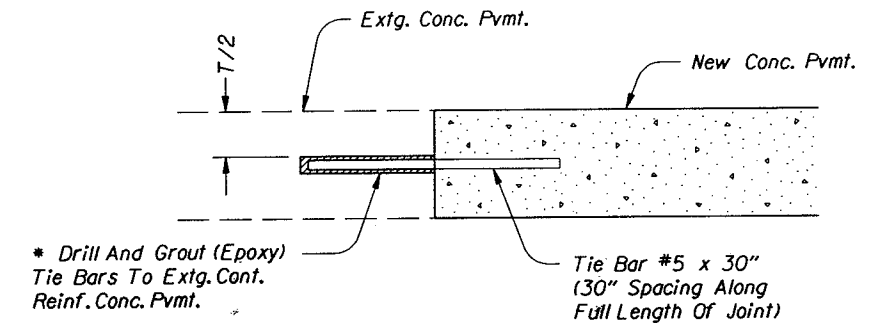
# CONCRETE PAVEMENT REPAIR

42V-53

(Exact location to be field verified total area approx. 230 sq.yd. ±)  
(For details not shown, see drg. no. RD600)



PLAN  
(For details not shown, see sht. 2B-3)



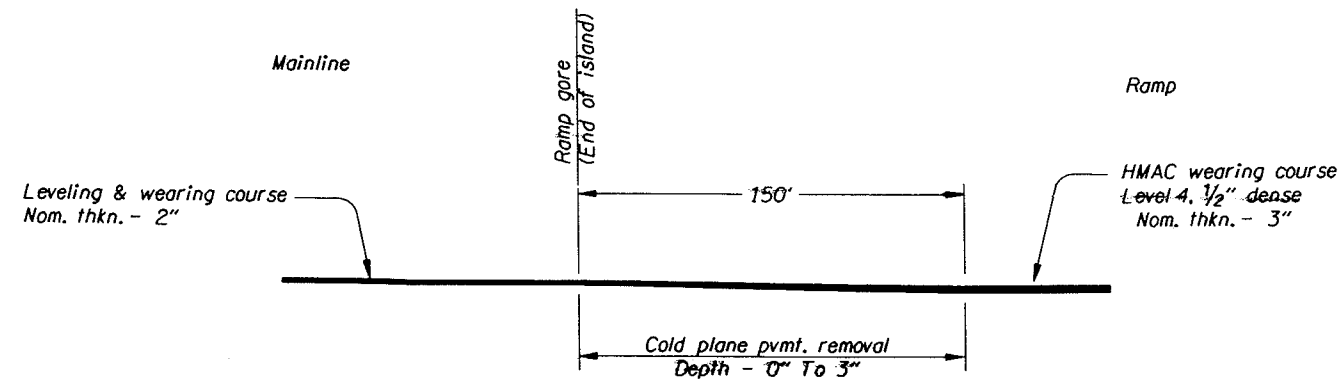
\* Hole Diameter And Embedment As Per Manufacturer's Specifications.  
(Use Materials From The Approved Qualified Products List Section 02080.10 Or 02080.20)

- REVISIONS
- ① Sheet redrawn. 3/09 S.F.
  - ② Changed quantity. 4/09 S.F.



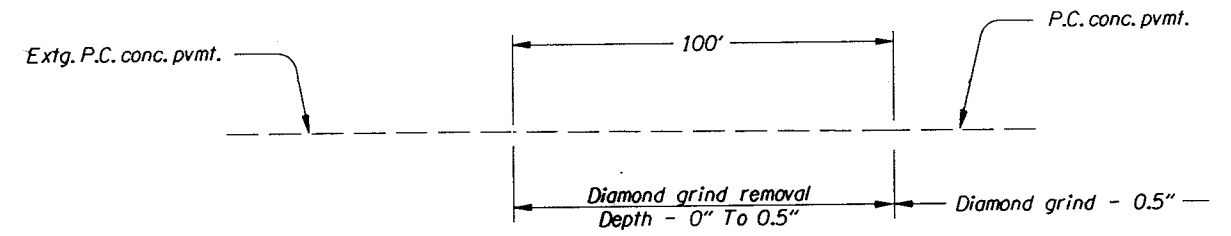
RENEWAL DATE: 6-30-2009

<b>OREGON DEPARTMENT OF TRANSPORTATION</b>	
REGION 1 - ROADWAY ENGINEERING SECTION	
<b>I-405: FREMONT BRIDGE - MARQUAM BRIDGE SEC.</b> STADIUM FREEWAY MULTNOMAH COUNTY	
Design Team Leader - Larry Kretzler Designed By - Vidal Francis & Rene' Renteria Drafted By - Scott Falmeizger	
<b>DETAILS</b>	SHEET NO. <b>2B-3</b>

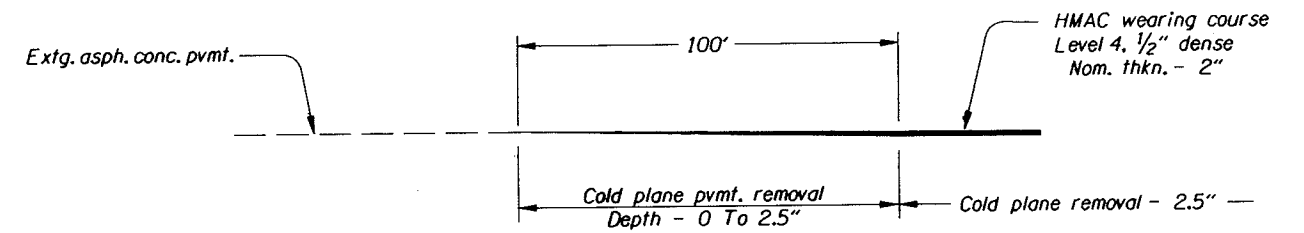


**GORE PAVEMENT TRANSITION**  
 "14thON", "15thOFF", "14thOFF", "14thBOFF",  
 "T", "SC", "FB" & "FL" LINES

Note:  
 "14thON" cold plane work begins at AC/P.C. conc. joint

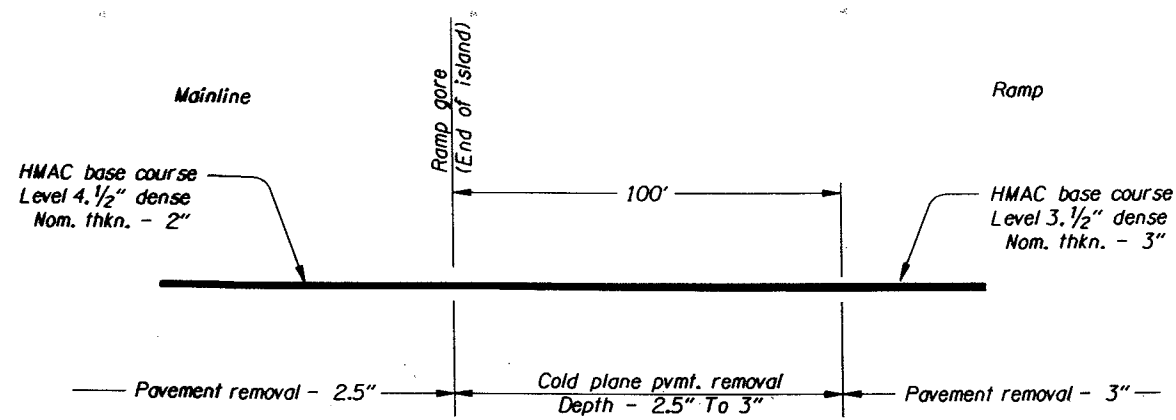


**P.C. Concrete Section (Travel Lanes)**



**Asphalt Concrete Section (Shoulders)**

**PAVEMENT TRANSITION**  
**PROJECT ENDS**



**GORE PAVEMENT TRANSITION**  
 "BF" & "FS" LINES

REVISIONS

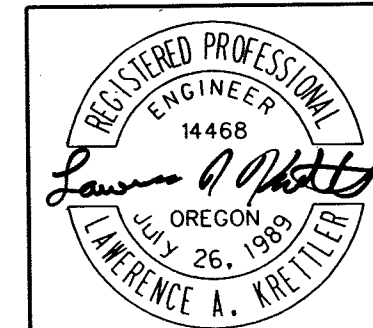
1 New sheet to for ramp paving. 3/09 S.F.

**OREGON DEPARTMENT OF TRANSPORTATION**

**REGION 1 - ROADWAY ENGINEERING SECTION**

**I-405: FREMONT BRIDGE - MARQUAM BRIDGE SEC.**  
 STADIUM FREEWAY  
 MULTNOMAH COUNTY

Design Team Leader - Larry Krettlar  
 Designed By - Vidal Francis & Rene Renteria  
 Drafted By - Scott Falmezger

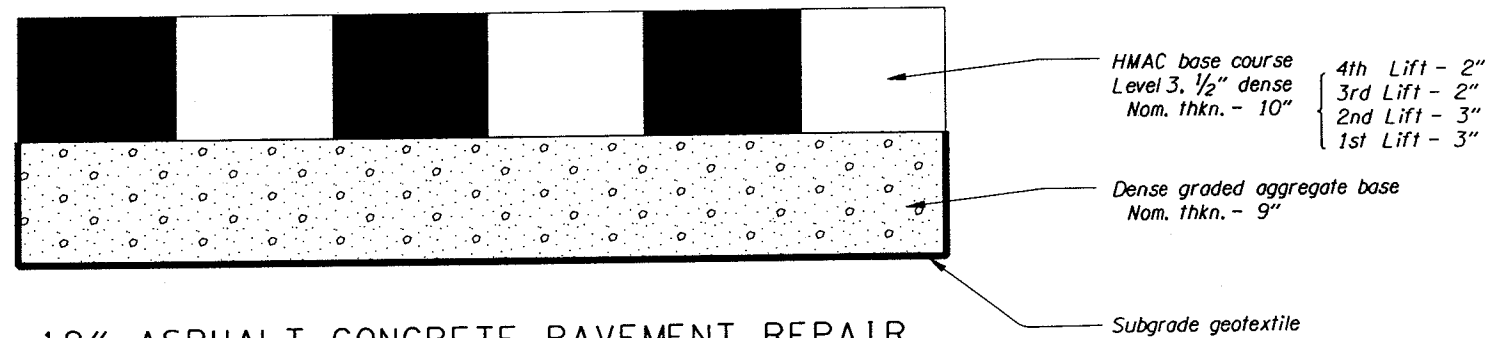


RENEWAL DATE: 6-30-2009

**DETAILS**

SHEET NO.

2B-6



**19" ASPHALT CONCRETE PAVEMENT REPAIR**  
(Exact location to be field verified total area aprox. 140 sq.yd. ±)

REVISIONS

- 1 New sheet to for asphalt conc. repairs. 3/09 S.F.
- 2 Removed 21" asphalt concrete repair. Changed the quantity. Changed the title. 4/09 S.F.



<b>OREGON DEPARTMENT OF TRANSPORTATION</b>	
<b>REGION 1 - ROADWAY ENGINEERING SECTION</b>	
<b>I-405: FREMONT BRIDGE - MARQUAM BRIDGE SEC.</b> STADIUM FREEWAY MULTNOMAH COUNTY	
Design Team Leader - Larry Krettlar Designed By - Vidal Francis & Rene' Renteria Drafted By - Scott Failmezger	
<b>DETAILS</b>	SHEET NO. <b>2B-9</b>