



Oregon


Theodore R. Kulongoski, Governor

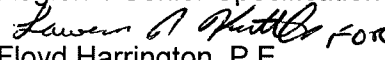
Department of Transportation
Technical Services
Roadway Engineering Section
355 Capitol Street NE, Room 222
Salem, OR 97301-3871
Telephone 503-986-3714
FAX 503-986-3749

DATE: July 8, 2009

Addenda No. 6

TO: PLAN HOLDERS

PREPARED BY:  MaryEllen Stesney
Region 1 Senior Specifications Writer

APPROVED BY:  FOR
Floyd Harrington, P.E.
Roadway Unit Manager

SUBJECT: I-84: Multnomah Falls - Cascade Locks Section
Columbia River Highway
Multnomah & Hood River Counties
Grading, Structures, Paving, Guardrail, Pavement Markings, Signing &
Automatic Traffic Recorder Project

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>
0100	Sequential Arrow Signs	2.00	4.00
0590	Guardrail Anchors, Type 1 Modified	3.00	2.00

b. Added items:

<u>Number</u>	<u>Item</u>	<u>Unit</u>	<u>Quantity</u>
1080	Guardrail Anchors, Type 1 Modified, Weatherized	Each	1.00
1090	Temporary Impact Attenuator, Truck Mounted	Each	4.00
1100	Repair Temporary Impact Attenuator, Truck Mounted	Each	4.00
1110	Flagger Station Lighting	Each	4.00

Columbia River Highway

Multnomah County

Grading, Structures, Paving, Guardrail, Pavement Markings, Signing & Automatic Traffic Recorder

(Bids to be Opened and read July 16, 2009)

c. Name changes:

<u>Number</u>	<u>Item</u>
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0600	Guardrail End Pieces, Type B, Weatherized
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The following changes are made to the Project Special Provisions:

1. Subsection **00195.10(d) Asphalt Cement Price Adjustment** - Replace the table of pay items listed with the following:

PG 70-22ER Asphalt in HMAC
 PG64-22 Asphalt in HMAC
 Emulsified Asphalt for Tack Coat

2. Subsection **00195.11(d) Fuel Price Adjustment** - Replace the table of pay items with the following:

Cold Plane Pavement Removal, ___ Inches Deep	0.04 Gal/Yd ²
Level 4, 1/2 Inch Dense Lime Treated HMAC	2.93 Gal/Ton
Level 3, 1/2 Inch Dense Lime Treated HMAC	2.93 Gal/Ton
Construct PPC Overlay	1.00 Gal/Yd ²

In the paragraph which begins "Fuel requirements for ...", replace "351,771 gallons" with "322,613 gallons".

3. Subsection **00220.03(b) Closures** - Replace the first two bullets with the following bullets:
 - **Lanes** - A minimum of 7 calendar days before a lane or partial ramp closure begins.
 - **Roads** - A minimum of 14 calendar days before road or ramp closure begins. Also notify in writing all affected emergency services, school districts, and US Postal Service a minimum of 14 calendar days before any closure.
4. Subsection **00225.02 General Requirements** - In the paragraph which begins "Install two sign flag boards...", replace "GRIDGE" with "BRIDGE".

Also add the following to the end of this subsection:

Close ramps during ramp reconstruction and reconstruction of touchdown and departure points along I-84 mainline.

5. Subsection **00305.04 Agency Responsibilities** - Delete the third bullet which begins "Provide horizontal...".

Columbia River Highway

Multnomah County

Grading, Structures, Paving, Guardrail, Pavement Markings, Signing & Automatic Traffic Recorder

(Bids to be Opened and read July 16, 2009)

6. Subsection **00310.92 Separate Item Basis** - Add the following phrase to the end of the sentence which begins "Item (g) applies...":

 , except when paid as part of another item
7. Subsection **00557.16(d) Surface Tolerance** - In the first sentence, replace "ore" with "more".
8. Subsection **00557.20 General** - Delete the "ok" which appears at the end of this subsection.
9. Subsection **00557.28(b) Straightedge** - In the only sentence of this subsection, replace "10 feet long" with "12 feet long".
10. Subsection **00557.41(f) Final Surface Preparation** - In the bullet which begins "If in the opinion..." replace "contaminated" with "contaminates".
11. Subsection **00557.90 General** - In the sentence that begins "Item (a)", replace "furnishing" with "finishing". In the sentence that begins "Item (b)", replace "furnishing" with "finishing".
12. **Section 00593 - Powder Coating Metal Structures** - Delete this entire Section.
13. Subsection **00748.20 Equipment** - Replace this subsection, except for the heading, with the following:

 Provide equipment appropriate to perform the work according to Sections 00320, 00330, 00340, 00350, 00620, 00641, 00735 and 00745.
14. Subsection **00748.44 Cold Plane Pavement Removal** - Add this subsection immediately after 00748.43:

 00748.44 Cold Plane Pavement Removal - Remove the existing pavement to the depth, width, grade and cross-section shown or as directed. Perform cold-plane pavement removal according to 00620.40.
15. Subsection **00748.90 Payment** - Replace the sentence that begins with "No separate or ..." with the following sentence:

 No separate or additional payment will be made for excavation, geotextile, stone embankment, cold-plane pavement removal, aggregate or water.
16. Subsection **00810.16 Appurtenances for Weatherized Guardrail** - In the first sentence of this subsection, replace "Section 00593" with "Section 00594".
17. Subsection **00810.16 Appurtenances for Weatherized Guardrail** - Add the following two sentences to the end of this subsection:

I-84: Multnomah Falls - Cascade Locks Section
Columbia River Highway
Multnomah County
Grading, Structures, Paving, Guardrail, Pavement Markings, Signing & Automatic Traffic Recorder
(Bids to be Opened and read July 16, 2009)

Addenda No. 6

Perform coating off-site. Apply field touch-up, using approved materials, to nicks, scratches, bared threads, and other minor damage to the coating that occurs during transportation and installation.

18. Subsection **00810.90 Payment** – Replace the first sentence of this subsection with "Add the following pay items" and add the following below pay item (k):

(l) Guardrail Anchors, Type 1 Modified, Weatherized..... Each

19. Subsection **00820.00 Scope** - Replace this sentence with the following sentence:

This work also includes applying colored coating to barriers identified on the plans as "modified" and all connecting barrier transitions

The following changes are made to the Project Plans:

1. Plan sheets 2C-9, 2C-14, 3, 16, 30, 35A ST, ST-7, ST-8, ST-11, ST-15, ST-16, ST-17, ST-20, ST-22, ST-24, ST-26 and S-11335 are replaced with revised plan sheets 2C-9, 2C-14, 3, 16, 30, 35A, ST, ST-7, ST-8, ST-11, ST-15, ST-16, ST-17, ST-20, ST-22, ST-24, ST-26 and S-11335.

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: 14056

PROJECT: I-84: MULTNOMAH FALLS - CASCADE
LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
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SECTION 0001 TEMPORARY FEATURES AND APPURTENANCES

0010	0100-0101000T TRAINING	2,040.00 HOUR	20.00	40800.00
0020	0210-0100000A MOBILIZATION	ALL LS		
0030	0225-0100000A TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	ALL LS		
0040	0225-0102000J TEMPORARY SIGNS	1,200.00 SQFT		
0050	0225-0105000E TEMPORARY BARRICADES, TYPE III	40.00 EACH		
0060	0225-0145000E TEMPORARY PLASTIC DRUMS	250.00 EACH		
0070	0225-0149000E TEMPORARY FLEXIBLE PAVEMENT MARKERS	40,000.00 EACH		
0080	0225-0153000F TEMPORARY STRIPING	210,000.00 FOOT		
0090	0225-0154000F STRIPE REMOVAL	153,150.00 FOOT		
0100	0225-0162000E SEQUENTIAL ARROW SIGNS	4.00 EACH		
0110	0225-0164000E PORTABLE CHANGEABLE MESSAGE SIGNS	4.00 EACH		
0120	0225-0168000T FLAGGERS	300.00 HOUR		

BID SCHEDULE

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LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0130	0225-0169000E TRAFFIC CONTROL SUPERVISOR	EACH 150.00		
0140	0280-0100000A EROSION CONTROL	LS ALL		
0150	0280-0114000E INLET PROTECTION	EACH 3.00		
0160	0280-0115000F SEDIMENT BARRIER	FOOT 3,615.00		
0170	0290-0100000A POLLUTION CONTROL PLAN	LS ALL		

SECTION 0002 ROADWORK

0180	0310-0101000F REMOVAL OF CURBS	FOOT 210.00		
0190	0310-9Z90000F REMOVAL OF BARRIERS	FOOT 1,037.50		
0200	0310-9Z90000F REMOVAL OF GUARDRAIL	FOOT 5,125.00		
0210	0310-0119000F ASPHALT PAVEMENT SAW CUTTING	FOOT 7,005.00		
0220	0310-9Z90000A EXTRA FOR SALVAGING AND STOCKPILING GUARDRAIL	LS ALL		
0230	0310-9Z90000F REMOVAL OF GUARDRAIL, RAIL ONLY	FOOT 12,437.50		
0240	0330-0105000K GENERAL EXCAVATION	CUYD 6,710.00		

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LOCKS

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ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0250	0331-0109000J 18 INCH SUBGRADE STABILIZATION	75.00 SQYD		

SECTION 0003 EAGLE CREEK VIADUCT VIADUCT BR 09382

0260	0540-9Z90000K FURNISH POLYESTER POLYMER CONCRETE	340.00 CUYD		
0270	0558-0102000J CLASS 2 PREPARATION	1,200.00 SQYD		
0280	0558-9Z90000J CONSTRUCT PPC OVERLAY	12,232.00 SQYD		

SECTION 0004 DODSON EASTBOUND - BR 02176A

0290	0581-0100000E BRIDGE DRAINS	1.00 EACH		
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SECTION 0005 WARRENDALE - BR 08692

0300	0591-0100000J WARRANTED WATERPROOFING MEMBRANE	11,494.00 SQFT		
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SECTION 0006 BONNEVILLE - BR 096924

0310	0591-0100000J WARRANTED WATERPROOFING MEMBRANE	2,593.00 SQFT		
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SECTION 0007 EXIT 44 - BR 08609

0320	0585-0100000A ASPHALTIC PLUG JOINT SEALS	ALL LS		
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LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0330	0591-0100000J WARRANTED WATERPROOFING MEMBRANE	17,641.00 SQFT		

SECTION 0008 MOODY - BR 08610

0340	0585-0100000A ASPHALTIC PLUG JOINT SEALS	ALL LS		
0350	0591-0100000J WARRANTED WATERPROOFING MEMBRANE	8,465.00 SQFT		

SECTION 0009 MOODY - BR 08610W

0360	0585-0100000A ASPHALTIC PLUG JOINT SEALS	ALL LS		
0370	0591-0100000J WARRANTED WATERPROOFING MEMBRANE	8,465.00 SQFT		

SECTION 0010 HAZEL - BR 08611

0380	0591-0100000J WARRANTED WATERPROOFING MEMBRANE	4,645.00 SQFT		
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SECTION 0011 HAZEL - BR 08611W

0390	0591-0100000J WARRANTED WATERPROOFING MEMBRANE	4,645.00 SQFT		
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SECTION 0012 BASES

0400	0610-0103000A RECONDITIONING EXISTING ROADWAY	ALL LS		
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BID SCHEDULE

CONTRACT ID: 14056

PROJECT: I-84: MULTNOMAH FALLS - CASCADE
LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0410	0620-0118000J COLD PLANE PAVEMENT REMOVAL, 1 INCHES DEEP	SQYD 8,670.00		
0420	0620-0120000J COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP	SQYD 437,345.00		
0430	0620-0123000J COLD PLANE PAVEMENT REMOVAL, 4 INCHES DEEP	SQYD 194,640.00		
0440	0641-0102000M AGGREGATE BASE	TON 5,575.00		

SECTION 0013 WEARING SURFACES

0450	0730-0100000M EMULSIFIED ASPHALT FOR TACK COAT	TON 280.00		
0460	0745-0322000M LEVEL 3, 1/2 INCH DENSE LIME TREATED HMA	TON 6,110.00		
0470	0745-0422000M LEVEL 4, 1/2 INCH DENSE LIME TREATED HMA	TON 91,020.00		
0480	0745-0424000M LEVEL 4, 3/4 INCH OPEN LIME TREATED HMA	TON 470.00		
0490	0745-0620000M PG 64-22 ASPHALT IN HMA	TON 370.00		
0500	0745-9Z90000M PG 70-22ER ASPHALT IN HMA	TON 5,490.00		
0510	0748-0103000J 6 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD 7,952.00		
0520	0748-0104000J 8 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD 13,340.00		

BID SCHEDULE

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LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0530	0748-0121000J 42 INCH ASPHALT CONCRETE PAVEMENT REPAIR	75.00 SQYD		
0540	0759-0106000F CONCRETE CURBS, LOW PROFILE MOUNTABLE CURB	210.00 FOOT		

SECTION 0014 PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVICES

0550	0810-0103000F GUARDRAIL, TYPE 2A WEATHERIZED	4,400.00 FOOT		
0560	0810-0104000F GUARDRAIL, TYPE 2A	1,650.00 FOOT		
0570	0810-0106000F GUARDRAIL, TYPE 3 WEATHERIZED	62.50 FOOT		
0580	0810-0107000F GUARDRAIL, TYPE 3	187.50 FOOT		
0590	0810-0120000E GUARDRAIL ANCHORS, TYPE 1 MODIFIED	2.00 EACH		
0600	0810-0122000E GUARDRAIL END PIECES, TYPE B, WEATHERIZED	1.00 EACH		
0610	0810-0126000E GUARDRAIL TRANSITION	15.00 EACH		
0620	0810-0126000E GUARDRAIL TRANSITION, WEATHERIZED	5.00 EACH		
0630	0810-0128000E GUARDRAIL CONNECTIONS	5.00 EACH		
0640	0810-0129000E GUARDRAIL TERMINALS, NON-FLARED	8.00 EACH		

BID SCHEDULE

CONTRACT ID: 14056

PROJECT: I-84:MULTNOMAH FALLS - CASCADE
LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0650	0810-0129000E GUARDRAIL TERMINALS, NON-FLARED, POWDER-COATED, WEATHERIZED	EACH 10.00		
0660	0810-0130000E GUARDRAIL TERMINALS, FLARED	EACH 8.00		
0670	0810-0135000E GUARDRAIL POSTS	EACH 1,300.00		
0680	0810-9Z90000F GUARDRAIL, TYPE 2A, WEATHERIZED, RAIL ONLY	FOOT 12,437.50		
0690	0820-0100000F CONCRETE BARRIER	FOOT 2,012.50		
0700	0820-9Z90000F CONCRETE BARRIER TRANSITION	FOOT 37.50		
0710	0830-9Z90000E IMPACT ATTENUATOR, TYPE L	EACH 1.00		
0720	0840-0100000E DELINEATORS, TYPE 1	EACH 650.00		
0730	0840-0104200E DELINEATORS, TYPE 4 ALTERNATE 2	EACH 550.00		
0740	0840-0105000E DELINEATORS, TYPE 5	EACH 1,500.00		
0750	0840-0106000E MILEPOST MARKER POSTS	EACH 28.00		
0760	0855-0101000E MONO-DIRECTIONAL WHITE TYPE 1AR MARKERS	EACH 215.00		

BID SCHEDULE

CONTRACT ID: 14056

PROJECT: I-84: MULTNOMAH FALLS - CASCADE
LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0770	0855-0106000E MONO-DIRECTIONAL WHITE TYPE 1AR MARKERS, RECESSED	EACH 3,647.00		
0780	0857-0101000L CONTINUOUS RUMBLE STRIPS	MILE 21.30		
0790	0865-0123000F PAVEMENT MARKING TAPE, WET WEATHER PATTERN, GROOVED	FOOT 403,500.00		
0800	0867-0102000E PAVEMENT LEGEND, TYPE A: ARROWS	EACH 9.00		

SECTION 0015 PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS

0810	0905-0100000A REMOVE EXISTING SIGNS	LS ALL		
0820	0905-0101000A REMOVE AND REINSTALL EXISTING SIGNS	LS ALL		
0830	0910-0100000K WOOD SIGN POSTS	FBM 2,404.00		
0840	0920-0100000A SIGN SUPPORT FOOTINGS	LS ALL		
0850	0930-0106000A EXIT NUMBER SIGN MOUNTS	LS ALL		
0860	0930-0110000A SECONDARY SIGN MOUNTS	LS ALL		
0870	0930-0111000A MULTI-POST BREAKAWAY SIGN SUPPORTS	LS ALL		

BID SCHEDULE

CONTRACT ID: 14056

PROJECT: I-84:MULTNOMAH FALLS - CASCADE
LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
0880	0930-0112000A TRIANGULAR BASE BREAKAWAY SIGN SUPPORTS	LS ALL		
0890	0940-0102000J TYPE "B" SIGNS IN PLACE	SQFT 113.00		
0900	0940-0107000J TYPE "C" SIGNS IN PLACE	SQFT 1,650.00		
0910	0940-0109000J TYPE "F" SIGNS IN PLACE	SQFT 72.00		
0920	0940-0113000J TYPE "G" SIGNS IN PLACE	SQFT 1,514.00		
0930	0940-0124000J TYPE "W1" SIGNS IN PLACE	SQFT 559.00		
0940	0940-0127000J TYPE "W4" SIGNS IN PLACE	SQFT 6.00		
0950	0940-0134000J TYPE "Y1" SIGNS IN PLACE	SQFT 234.00		
0960	0940-0136000J TYPE "Y3" SIGNS IN PLACE	SQFT 68.00		
0970	0990-0103000A LOOP DETECTOR INSTALLATION	LS ALL		
0980	0990-0107000A AUTOMATIC TRAFFIC RECORDER INSTALLATION	LS ALL		

SECTION 0016 ADDED BID ITEMS

0990	0867-0144000J PAVEMENT BAR, TYPE A	SQFT 365.00		
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BID SCHEDULE

CONTRACT ID: 14056

PROJECT: I-84:MULTNOMAH FALLS - CASCADE
LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
1000	0620-0103000J COLD PLANE PAVEMENT REMOVAL, 0 - 1 INCHES DEEP	SQYD	845.00	
1010	0620-0104000J COLD PLANE PAVEMENT REMOVAL, 0 - 2 INCHES DEEP	SQYD	2,985.00	
1020	0620-0111000J COLD PLANE PAVEMENT REMOVAL, 1 - 2 INCHES DEEP	SQYD	1,310.00	
1030	0810-0130000E GUARDRAIL TERMINALS, FLARED, POWDER-COATED, WEATHERIZED	EACH	2.00	
1040	0810-9Z90000E GUARDRAIL BLOCKS	EACH	2,600.00	
1050	0620-0112000J COLD PLANE PAVEMENT REMOVAL, 2 - 3 INCHES DEEP	SQYD	750.00	
1060	0620-0106000J COLD PLANE PAVEMENT REMOVAL, 0 - 3 INCHES DEEP	SQYD	445.00	
1070	0305-0100000A CONSTRUCTION SURVEY WORK	LS	ALL	
1080	0810-0120000E GUARDRAIL ANCHORS, TYPE 1 MODIFIED, WEATHERIZED	EACH	1.00	
1090	0225-0138000E TEMPORARY IMPACT ATTENUATOR, TRUCK MOUNTED	EACH	4.00	
1100	0225-0141400E REPAIR TEMPORARY IMPACT ATTENUATOR, TRUCK MOUNTED	EACH	4.00	

BID SCHEDULE

CONTRACT ID: 14056

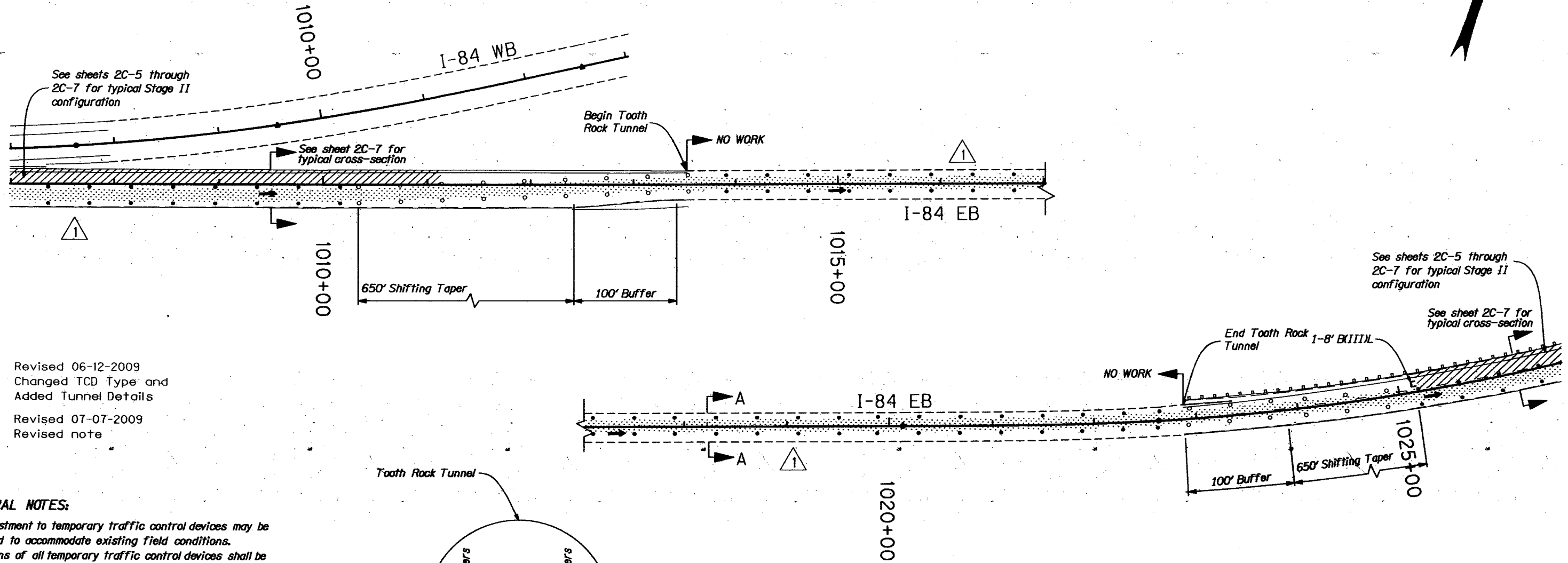
PROJECT: I-84: MULTNOMAH FALLS - CASCADE
LOCKS

PROJECT KEY: 13705

ADDENDUM NUMBER: 6

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE (IN FIGURES)	BID AMOUNT (IN FIGURES)
1110	0225-0168100E FLAGGER STATION LIGHTING	4.00 EACH		
TOTAL BID				

**STAGE II
RESTRICTED HORIZONTAL CLEARANCE
(TUNNEL)**

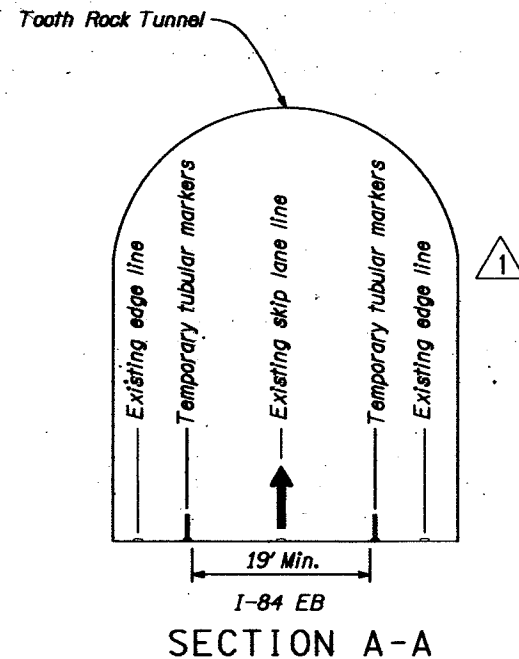


- 1 Revised 06-12-2009
Changed TCD Type and
Added Tunnel Details
- 2 Revised 07-07-2009
Revised note

GENERAL NOTES:

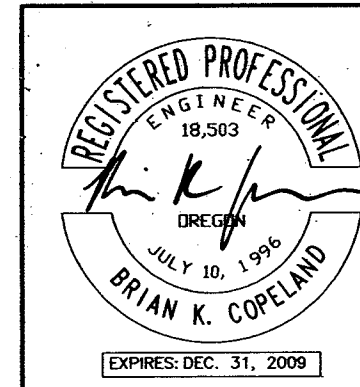
1. Adjustment to temporary traffic control devices may be required to accommodate existing field conditions. Locations of all temporary traffic control devices shall be approved in the field by the Engineer.
2. Remove all conflicting striping by method approved by the Engineer.
3. Refer to Sheet 2C for applicable ODOT Standard Details.
4. All signs shall be type "04" unless otherwise indicated.
5. Work in this stage includes installation of Type 5 delineators on median barrier. See striping plans.
6. Traffic shall be routed through the center of Toothrock Tunnel. Any variations to that configuration must be provided to Motor Carrier Transportation Division (MTCDD) a minimum of 28 days in advance of the closure.

- 1
- 2



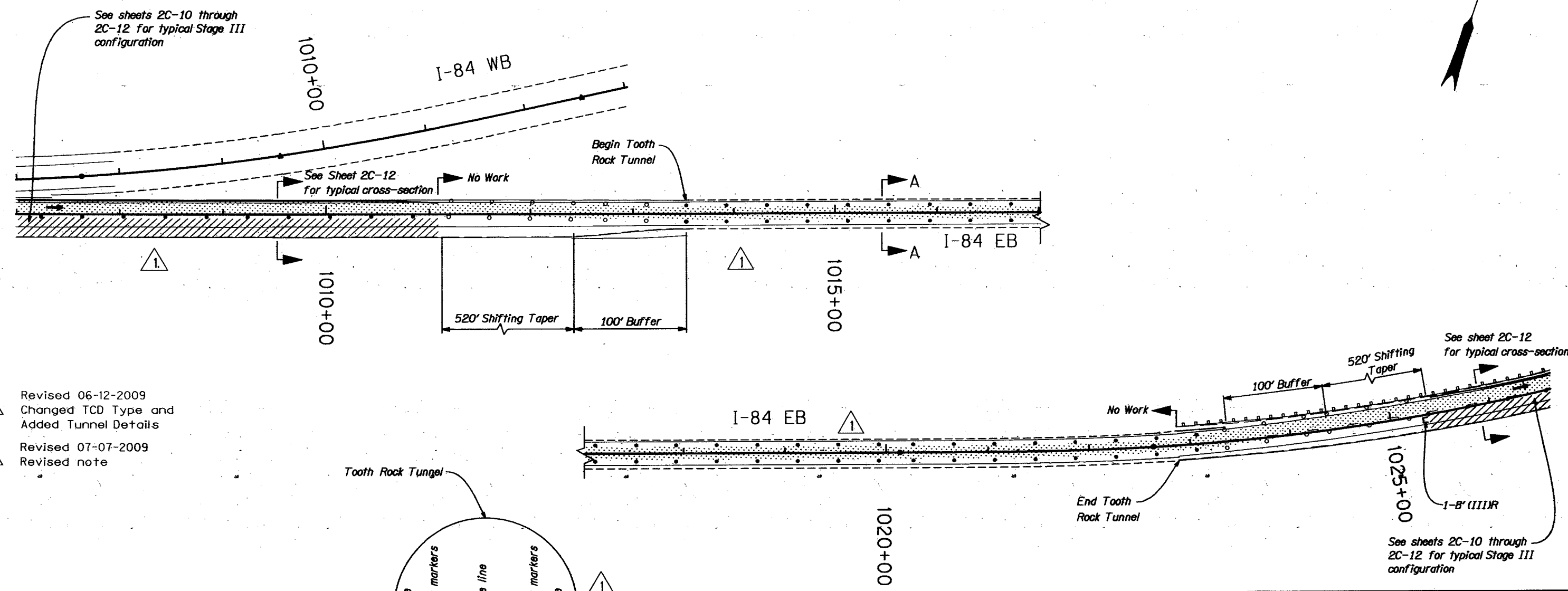
LEGEND

- Stage II under construction
- Under traffic
- Direction of traffic
- 8' B(III) L,R,LR barricade
- Temporary plastic drums (40 feet max. spacing)
- Temporary tubular markers (40 foot max. spacing)

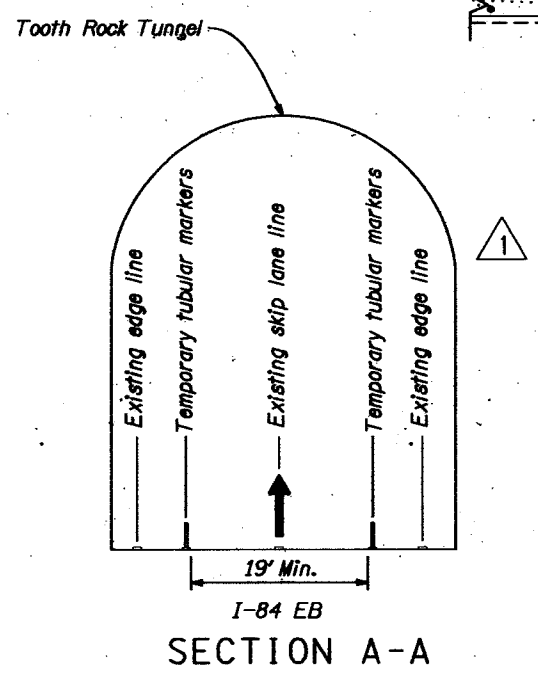


OREGON DEPARTMENT OF TRANSPORTATION	
DKS Associates TRANSPORTATION SOLUTIONS	1400 SW Fifth Avenue, Suite 500 Portland, Oregon 97201-5502 Telephone: (503) 243-3500 Fax: (503) 243-1984
I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC. COLUMBIA RIVER HIGHWAY MULTNOMAH & HOOD RIVER COUNTIES	
Design Team Leader - Brian K. Copeland Designed By - Nate N. Schroeder Drafted By - DKS CAD	
TRAFFIC CONTROL PLAN	SHEET NO. 2C-9

STAGE III
RESTRICTED HORIZONTAL CLEARANCE
(TUNNEL)

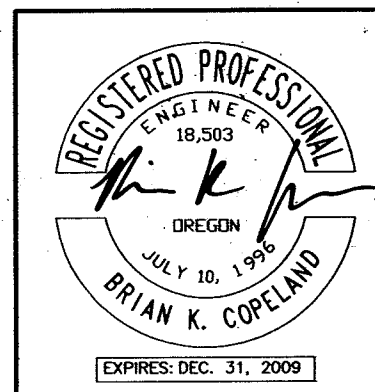


- 1 Revised 06-12-2009
Changed TCD Type and
Added Tunnel Details
- 2 Revised 07-07-2009
Revised note



- LEGEND**
- Stage III under construction
 - Under traffic
 - Direction of traffic
 - 8' B(III) L,R,LR barricade
 - Temporary plastic drums (40 ft. max. spacing)
 - Temporary tubular markers (40 foot max. spacing)

- GENERAL NOTES:**
1. Adjustment to temporary traffic control devices may be required to accommodate existing field conditions. Locations of all temporary traffic control devices shall be approved in the field by the Engineer.
 2. Remove all conflicting striping by method approved by the Engineer.
 3. All signs shall be type "04" unless otherwise indicated.
 4. Traffic shall be routed through the center of Toothrock Tunnel. Any variations to that configuration must be provided to Motor Carrier Transportation Division (MTCDD) a minimum of 28 days in advance of the closure.



OREGON DEPARTMENT OF TRANSPORTATION

DKS Associates 1400 SW Fifth Avenue, Suite 500 Telephone: (503) 243-9500
 TRANSPORTATION SOLUTIONS Portland, Oregon 97201-5502 Fax: (503) 243-1994

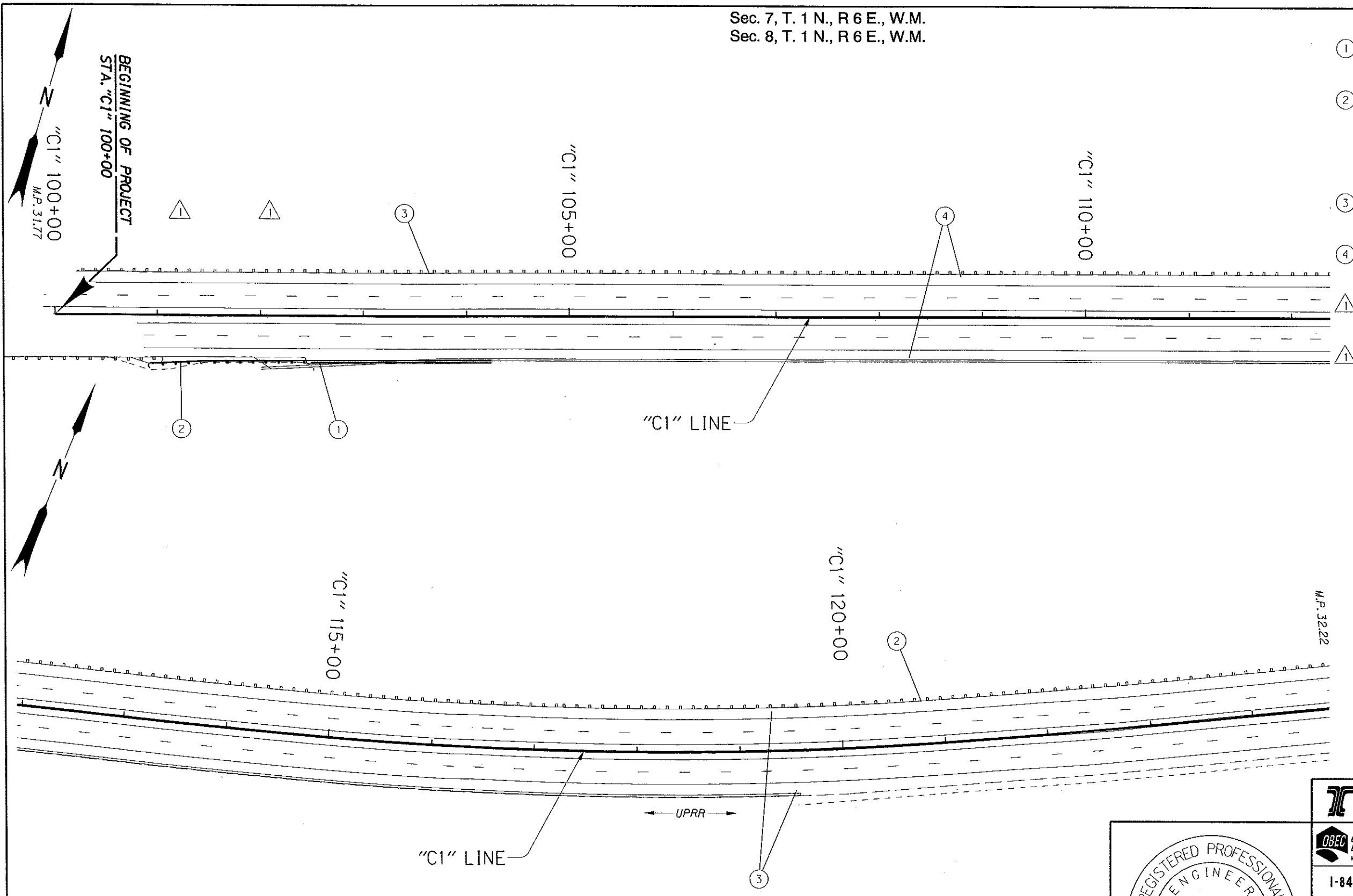
I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Brian K. Copeland
 Designed By - Nate N. Schroeder
 Drafted By - DKS CAD

TRAFFIC CONTROL PLAN SHEET NO. 2C-14

Sec. 7, T. 1 N., R 6 E., W.M.
 Sec. 8, T. 1 N., R 6 E., W.M.

42V-125



- ① Sta. "C1" 102+48.8 to Sta. "C1" 104+23. Rt. move extg. conc. shldr. barrier - 175' (See drg. nos. RD500 & RD516)
- ② Sta. "C1" 101+68.2 to Sta. "C1" 102+48.8 Const. guardrail - 12.5' (Type 3) W=4', E=0' Const. guardrail to conc. barrier connection Const. guardrail terminal, non-flared - 50' Test level 3 (See drg. nos. RD400, RD405, RD415, RD420 & RD530)
- ③ Sta. "C1" 100+00 to Sta. "C1" 274+93.7, Lt. Inst. guardrail posts - 280 (As directed by Engineer)
- ④ Sta. "C1" 100+00 to Sta. "C1" 418+11.6 Const. continuous rumble strips - 10.26 miles (For details, see sht. 2B-3)

REVISIONS	
△	Revised 7-8-2009
	Removed Note

OREGON DEPARTMENT OF TRANSPORTATION

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1-84: MULTNOMAH FALLS - CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
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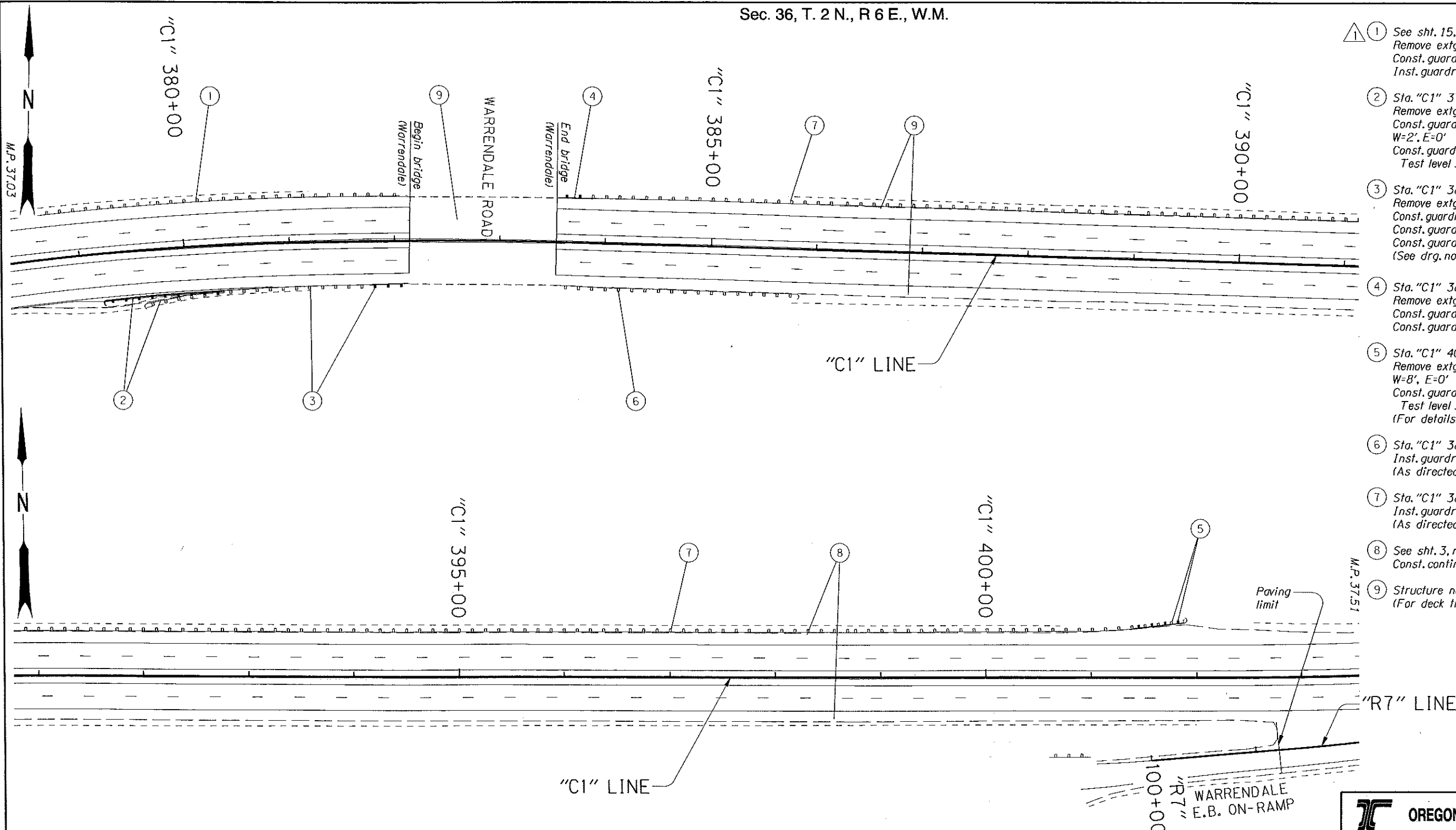
Design Team Leader - Terry Song
 Designed By - Jason Rahm
 Drafted By - Andrew Sager

ALIGNMENT AND GENERAL CONSTRUCTION

SHEET NO. 3

REGISTERED PROFESSIONAL ENGINEER
 15704
 OREGON
 NOV. 19, 1991
 TERENCE R. SONG
 EXPIRES: 06/30/10

ATTENTION: POSSIBLE UNKNOWN UTILITY CONFLICTS
 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.)



- ① See sht. 15, note 4
Remove extg. guardrail (Rail only)
Const. guardrail (Rail only) (Type 2A, weatherized)
Inst. guardrail posts
- ② Sta. "C1" 379+21.7 to Sta. "C1" 380+81.9, Rt.
Remove extg. guardrail - 112.5'
Const. guardrail - 275' (Type 2A, weatherized)
W=2', E=0'
Const. guardrail terminal, non-flared, weatherized - 50'
Test level 3
- ③ Sta. "C1" 380+81.9 to Sta. "C1" 382+12.6, Rt.
Remove extg. guardrail (rail only) - 100'
Const. guardrail (Rail only) - 100' (Type 2A, weatherized)
Const. guardrail - 12.5' (Type 3, weatherized)
Const. guardrail to bridge transition, weatherized
(See drg. no. BR203)
- ④ Sta. "C1" 383+57 to Sta. "C1" 383+88, Lt.
Remove extg. guardrail - 33'
Const. guardrail - 12.5' (Type 3)
Const. guardrail to bridge transition
- ⑤ Sta. "C1" 401+05.3 to Sta. "C1" 402+30.6, Lt.
Remove extg. guardrail - 37.5'
W=8', E=0'
Const. guardrail terminal, flared - 37.5'
Test level 3
(For details, see sht. 2B)
- ⑥ Sta. "C1" 383+55 to Sta. "C1" 385+82, Rt.
Inst. guardrail posts - 4
(As directed by Engineer)
- ⑦ Sta. "C1" 383+88 to Sta. "C1" 401+05, Lt.
Inst. guardrail posts - 28
(As directed by Engineer)
- ⑧ See sht. 3, note 4
Const. continuous rumble strips
- ⑨ Structure no. 08692
(For deck treatment, see sht. 2A)

REVISIONS	
①	Revised 7-8-2009
	Revised Note

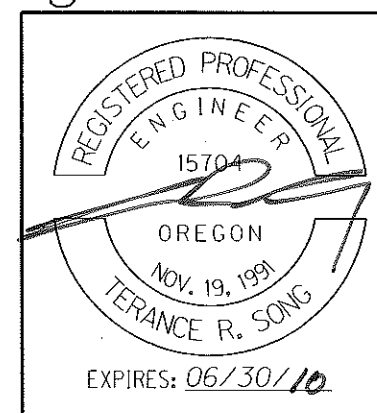
OREGON DEPARTMENT OF TRANSPORTATION

Corporate Office: 820 COUNTRY CLUB ROAD, SUITE 1008 EUGENE, OREGON 97401-6089
 5005 SW MEADOWS ROAD, SUITE 120 LAKE OSWEGO, OREGON 97035-4288
 2235 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1295
 831 CHARE PARKWAY MEDFORD, OREGON 97504-4005

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I-84: MULTNOMAH FALLS - CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES

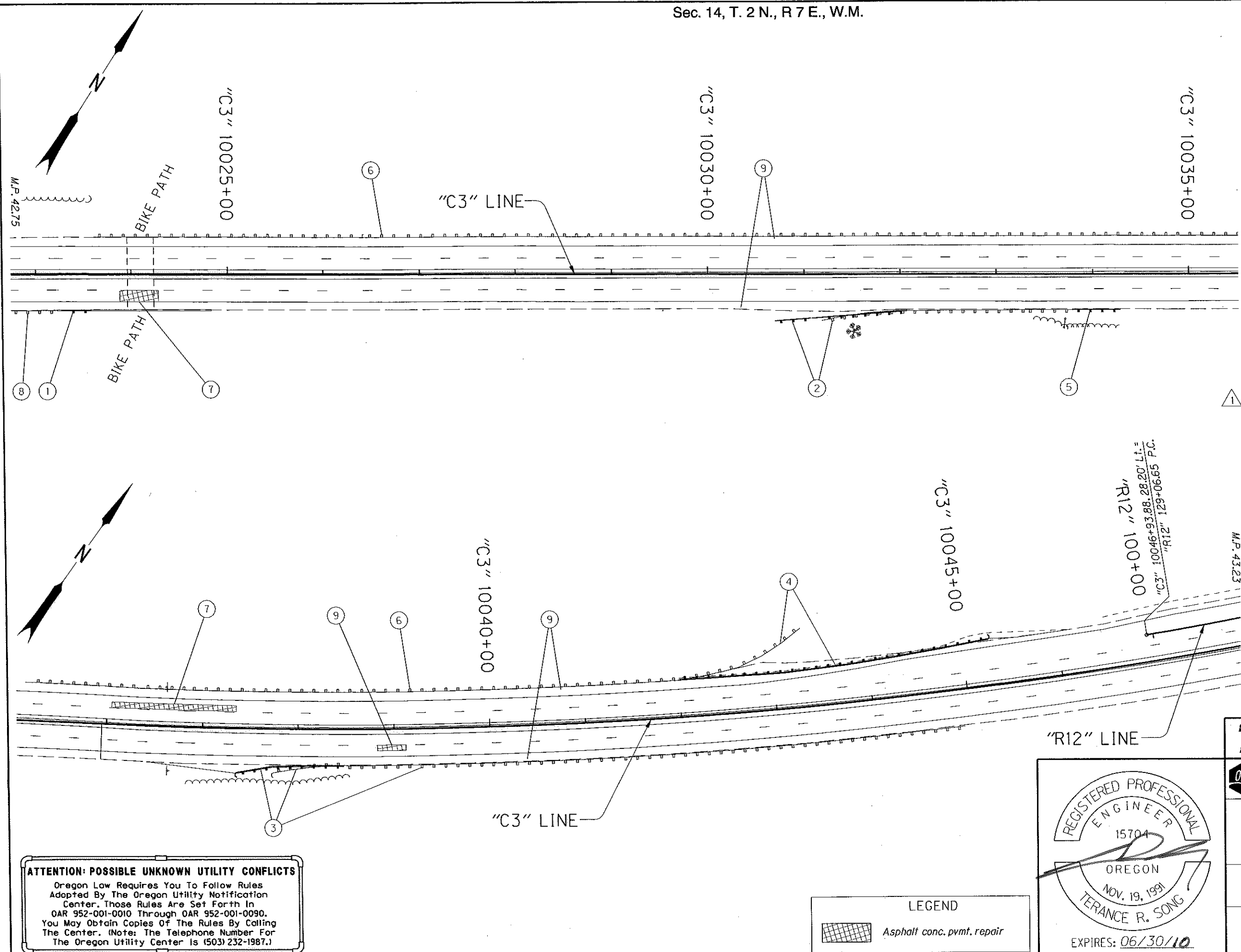
Design Team Leader - Terry Song
 Designed By - Jason Rahm
 Drafted By - Andrew Sager



ALIGNMENT AND GENERAL CONSTRUCTION

SHEET NO. 16

ATTENTION: POSSIBLE UNKNOWN UTILITY CONFLICTS
 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.)

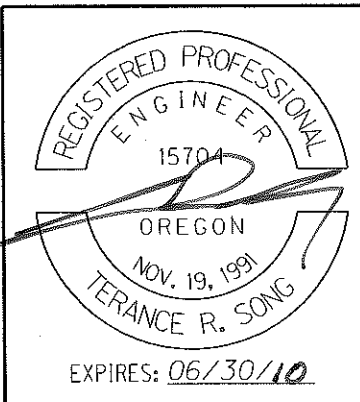


- ① Sta. "C3" 10023+27.3 to Sta. "C3" 10023+58.3, Rt.
Remove extg. guardrail - 33'
Const. guardrail - 12.5' (Type 3)
Const. guardrail to bridge rail transition
- ② Sta. "C3" 10030+70.1 to Sta. "C3" 10032+07.2, Rt.
Remove extg. guardrail - 87.5'
Const. guardrail - 137.5' (Type 2A, weatherized)
W=12', E=0'
Const. anchor (Type 1, modified)
Bury guardrail in back slope
(For details, see sht. 2A)
(See drg. nos. RD435 & RD450)
- ③ Sta. "C3" 10037+35.7 to Sta. "C3" 10044+97.7, Rt.
Remove extg. guardrail - 75'
Const. guardrail - 75' (Type 2A)
W=8', E=0'
Const. guardrail terminal, flared - 37.5'
Test level 3
(For details, see sht. 2B)
- ④ Sta. "C3" 10042+00.4 to Sta. "C3" 10045+27.7, Lt.
Remove extg. guardrail - 150'
Const. guardrail - 275' (Type 2A, weatherized)
W=2', E=0'
Const. guardrail terminal, non-flared, weatherized - 50'
Test level 3
(For details, see sht. 2B)
- ⚠️ ⑤ Sta. "C3" 10031+23.1 to Sta. "C3" 10034+28.9, Rt.
Const. guardrail - 50' (Type 2A, weatherized)
Const. anchor (Type 1 modified, weatherized)
Inst. end piece (Type B, weatherized)
E=0'
Inst. guardrail posts - 5
(As directed by Engineer)
- ⑥ Sta. "C3" 10023+61.1 to Sta. "C3" 10042+00, Lt.
Remove extg. guardrail (Rail only) - 1850'
Const. guardrail (Rail only) - 1850' (Type 2A, weatherized)
Inst. guardrail posts - 30
(As directed by Engineer)
- ⑦ 6" asphalt conc. pvmt. repair - 160 sq. yd.
(For details, see sht. 2B-3)
- ⑧ See sht. 29, note 5
Inst. guardrail posts
- ⑨ See sht. 29, note 8
Const. continuous rumble strips

REVISIONS	
⚠️	Revised 7-8-2009 Revised Note

ATTENTION: POSSIBLE UNKNOWN UTILITY CONFLICTS
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.)

LEGEND
 Asphalt conc. pvmt. repair



OREGON DEPARTMENT OF TRANSPORTATION

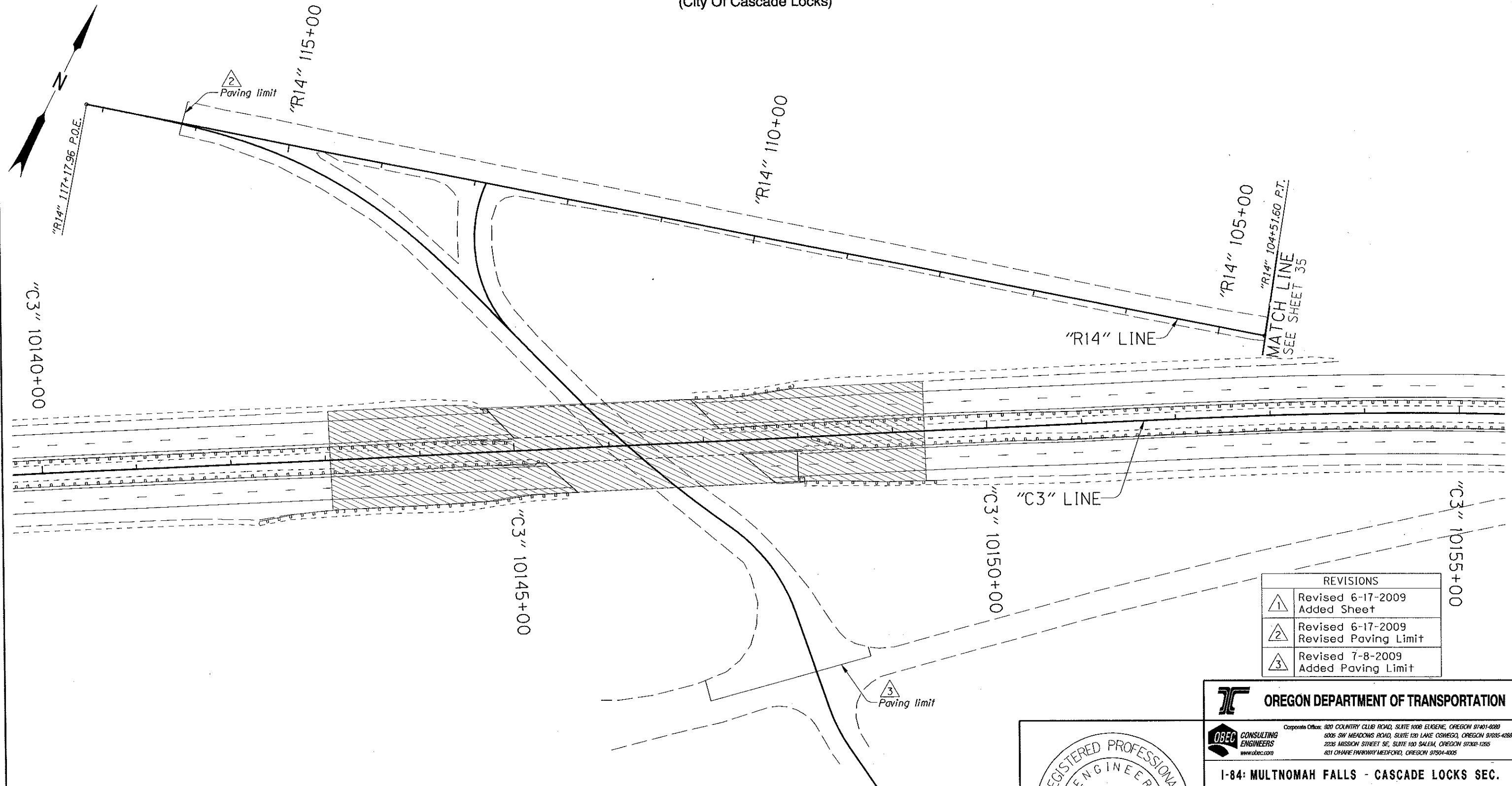
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I-84: MULTNOMAH FALLS - CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Terry Song
 Designed By - Jason Rahm
 Drafted By - Andrew Sager

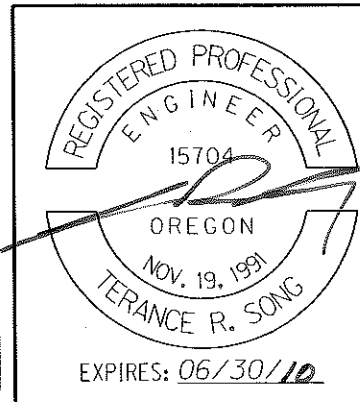
ALIGNMENT AND GENERAL CONSTRUCTION

SHEET NO. **30**



REVISIONS	
①	Revised 6-17-2009 Added Sheet
②	Revised 6-17-2009 Revised Paving Limit
③	Revised 7-8-2009 Added Paving Limit

LEGEND
 No work area (OTIA Bundle 208 E.B. & W.B. Hwy 100 Connector Bridge Replacements)



OREGON DEPARTMENT OF TRANSPORTATION

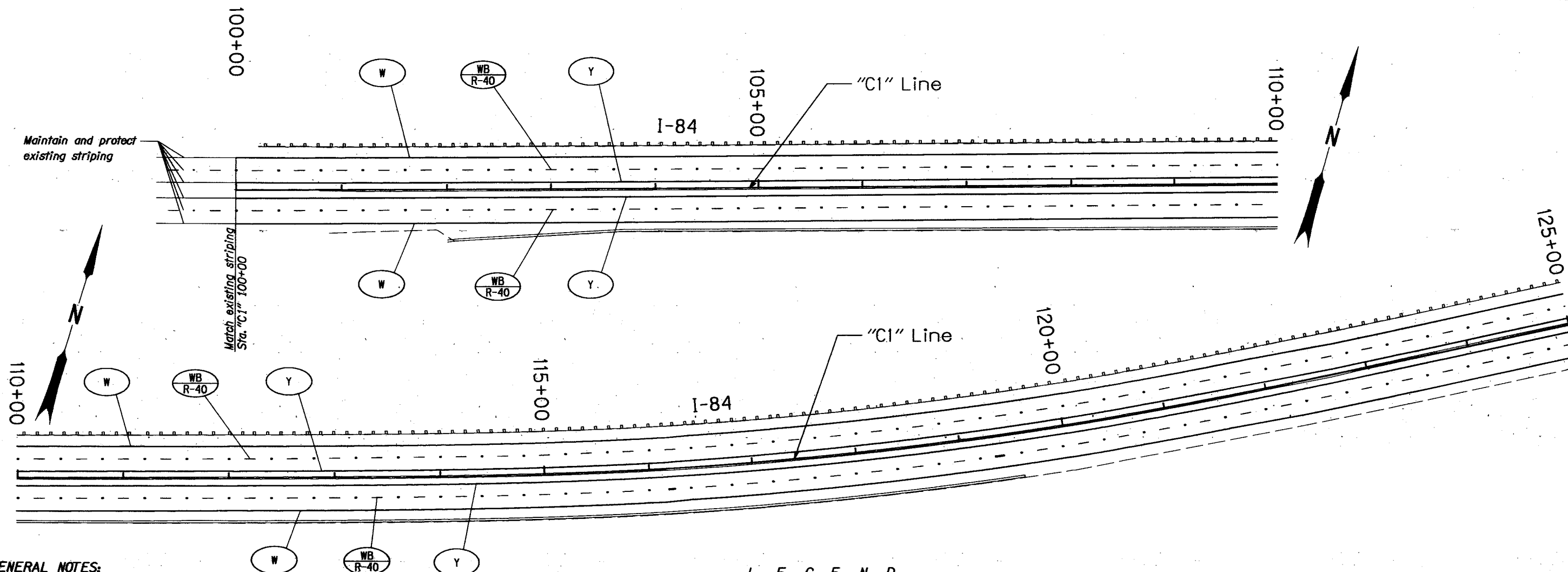
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I-84: MULTNOMAH FALLS - CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Terry Song
 Designed By - Jason Rahm
 Drafted By - Andrew Sager

ALIGNMENT AND GENERAL CONSTRUCTION




SHEET NO. **35A**





GENERAL NOTES:

1. This plan is accurate for striping only.
2. To be accompanied by Dwg. Nos. TM500, TM501, TM502, TM503, TM515, TM516, TM517, TM547, TM522, TM525, TM530, TM551, TM570, TM571, and TM575.
3. All pavement markings shall be approved in the field by the Engineer prior to installation.
4. Contractor is responsible for temporary striping during construction.
5. Remove all existing striping that conflicts with these plans.
6. Remove existing delineators along entire project length and install delineators per TM570, TM571, and TM575. Type 1 delineators shall be offset 4 feet from edge of pavement.
 - * Type 1 (650)
 - * Type 4 Alternate 2 (550)
 - * Type 5 (1500)
7. Method "G" protected inlaid tape shall be used for all striping on this project with a groove depth of 130 to 150 mils. All reflectors in the center skip lines shall be recessed (WB-a/R-40) except as noted on some bridges where raised pavement markers shall be installed (WB-a/R-40). All pavement legend markings on ramps (e.g. stop bars and arrows) shall be Type A (Liquid/Hot-Laid Thermoplastic Material).
8. Replace all striping per pre-construction layout unless otherwise noted. If lane widths are less than 12' wide, contact the Project Engineer for approval before striping.
9. Coordinate with Engineer to obtain pavement marking layout in vicinity of entrance ramps as indicated in plans. DO NOT stripe these areas until an approved design has been provided by the Engineer.

LEGEND

-  Inst. 4" yellow line
-  Inst. 4" white line
-  Inst. 4" white broken line with recessed pavement markers

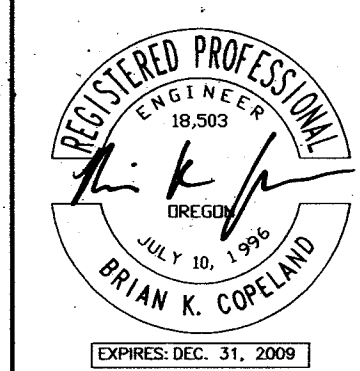
-  Revised 06-12-2009 Revised General Notes
-  Revised 07-07-2009 Revised note

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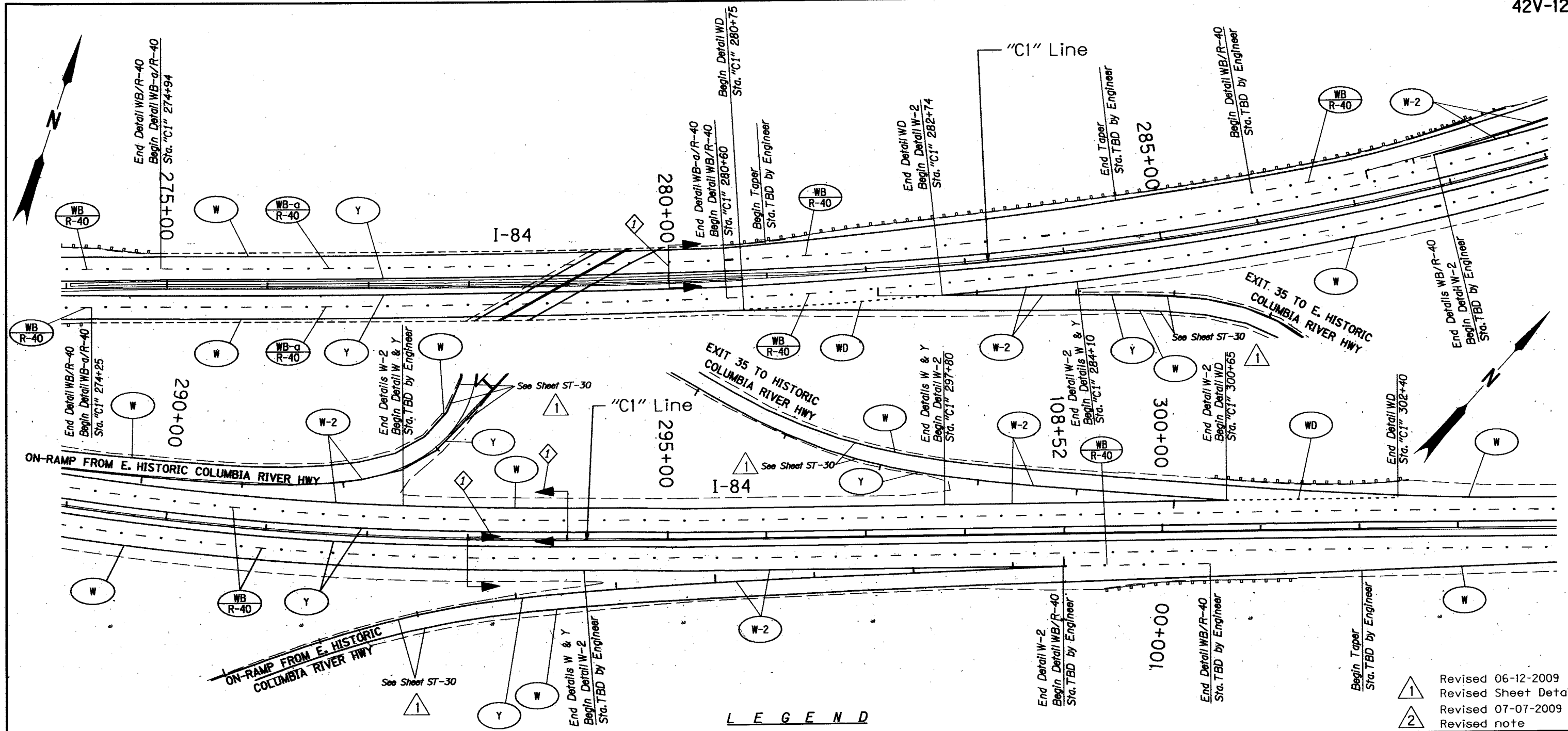
I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Brian K. Copeland
 Designed By - Jennifer L. Bachman
 Drafted By - DKS CAD



STRIPING PLAN

SHEET NO. ST



CONSTRUCTION NOTES:

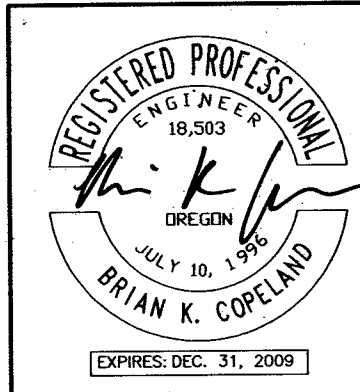
- 1 Coordinate with Engineer to obtain striping details prior to construction. DO NOT stripe between the following stations until an approved design has been provided by the Engineer.
- * WB Sta "C1" 280+00 to 294+00
- * EB Sta "C1" 293+00 to 310+00



LEGEND

- Y Inst. 4" yellow line
- W Inst. 4" white line
- WB R-40 Inst. 4" white broken line with recessed pavement markers
- WD Inst. 4" white dotted line
- W-2 Inst. 8" white line
- WB-a R-40 Inst. 4" white broken line with raised pavement markers

- 1 Revised 06-12-2009 Revised Sheet Details
- 2 Revised 07-07-2009 Revised note



OREGON DEPARTMENT OF TRANSPORTATION

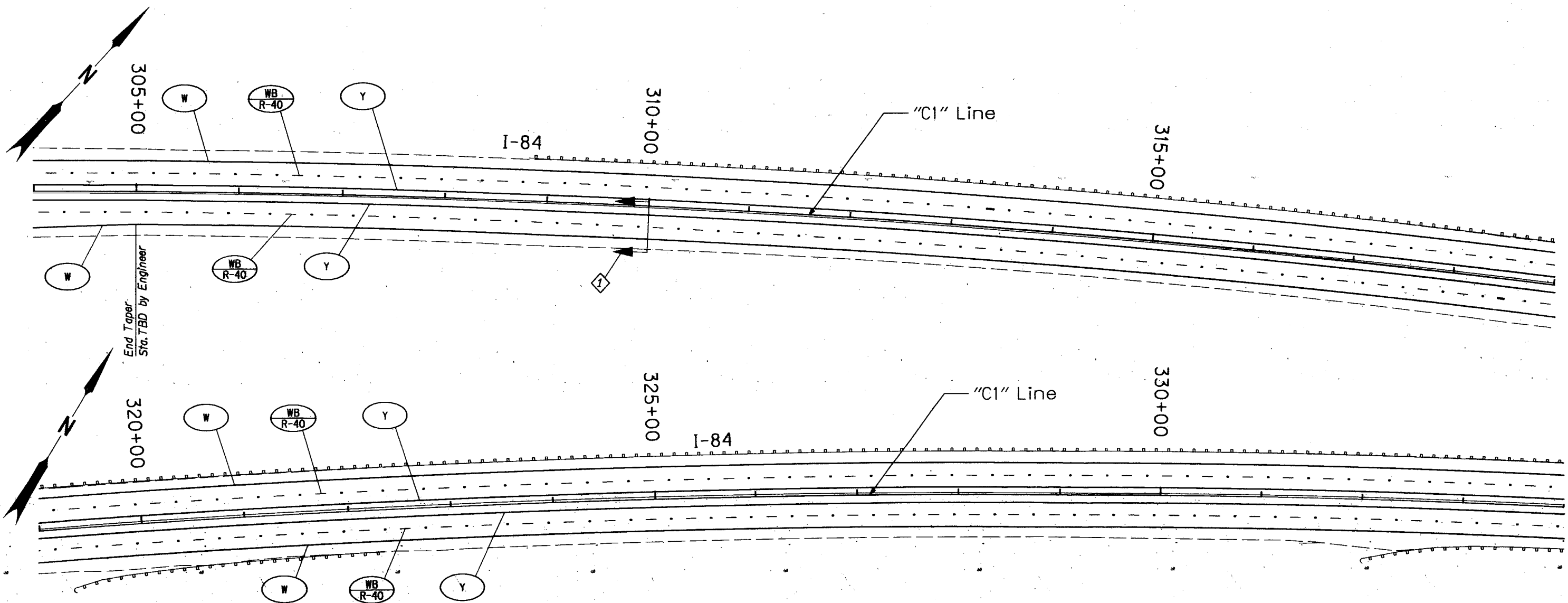
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I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES




Design Team Leader - Brian K. Copeland
 Designed By - Jennifer L. Bachman
 Drafted By - DKS CAD


STRIPING PLAN

SHEET NO.
ST-7





LEGEND

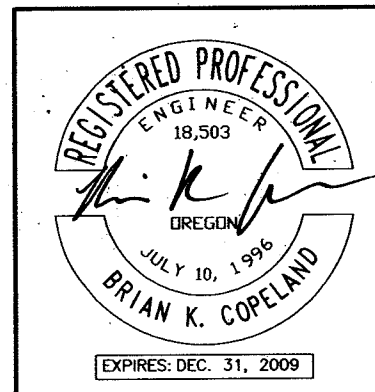
-  Inst. 4" yellow line
-  Inst. 4" white line
-  Inst. 4" white broken line with recessed pavement markers

 Revised 07-07-2009
Revised note

CONSTRUCTION NOTES:

 Coordinate with Engineer to obtain striping details prior to construction. DO NOT stripe between the following stations until an approved design has been provided by the Engineer.

* EB Sta "C1" 293+00 to 310+00 



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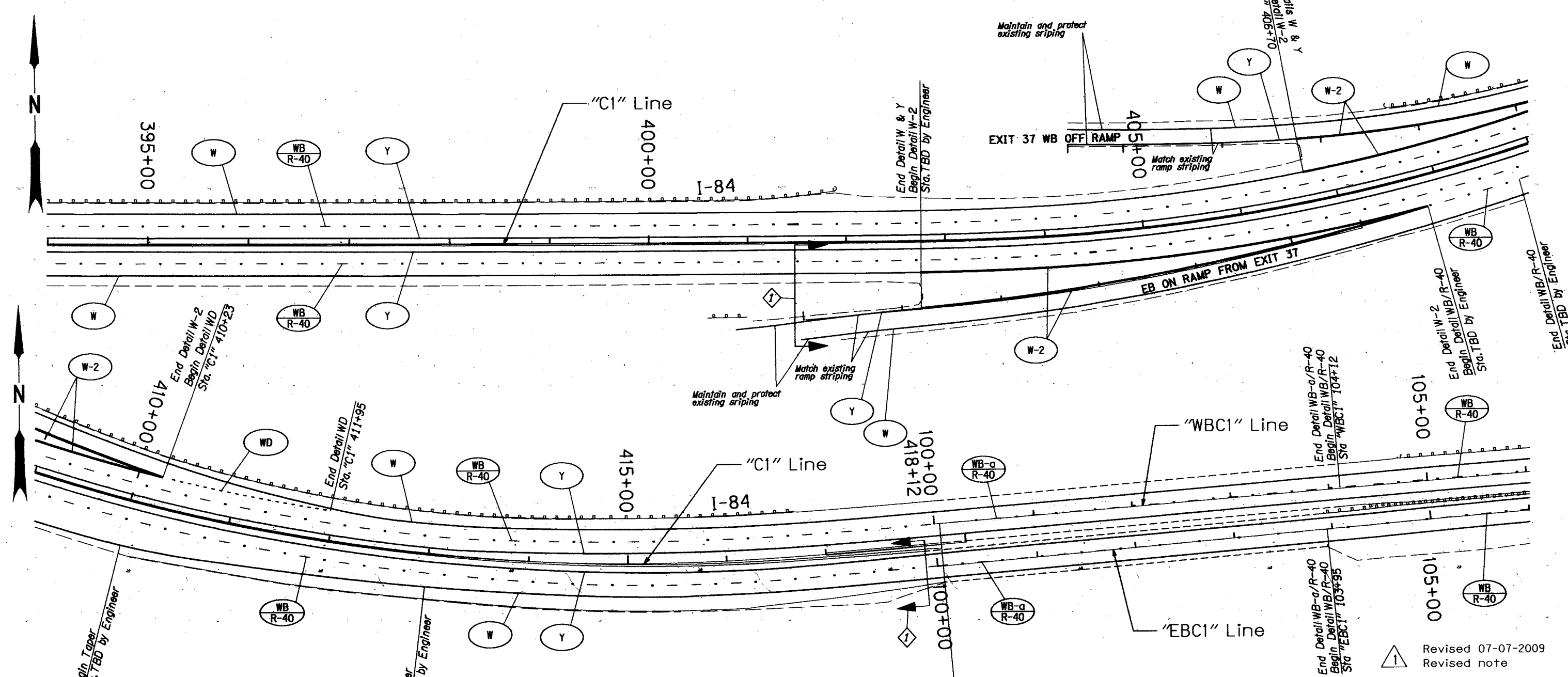
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I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Brian K. Copeland
 Designed By - Jennifer L. Bachman
 Drafted By - DKS CAD

STRIPING PLAN

SHEET NO.
ST-8



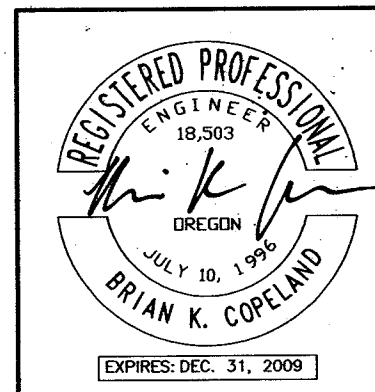
LEGEND

- Inst. 4" yellow line
- Inst. 4" white line
- Inst. 4" white broken line with recessed pavement markers
- Inst. 4" white dotted line
- Inst. 8" white line
- Inst. 4" white broken line with raised pavement markers

CONSTRUCTION NOTES:

1 Coordinate with Engineer to obtain striping details prior to construction. DO NOT stripe between the following stations until an approved design has been provided by the Engineer.
 * EB Sta "C1" 401+50 to 418+00

Revised 07-07-2009
 Revised note



OREGON DEPARTMENT OF TRANSPORTATION

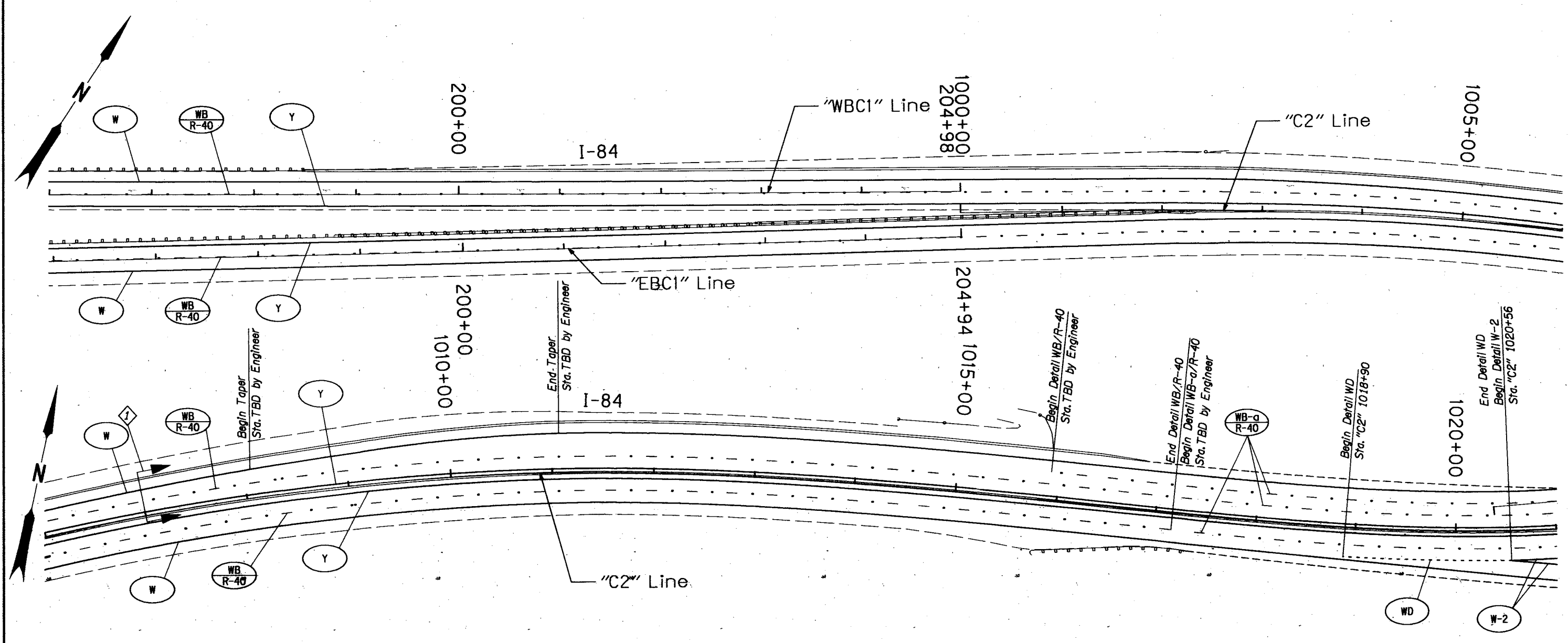
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I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Brian K. Copeland
 Designed By - Jennifer L. Bachman
 Drafted By - DKS CAD

STRIPING PLAN

SHEET NO. ST-11



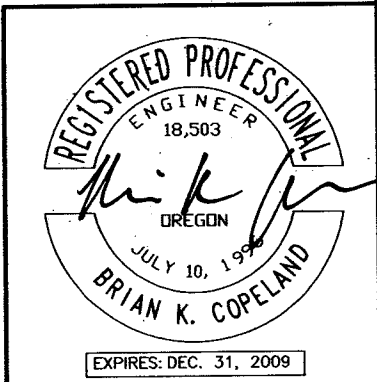
CONSTRUCTION NOTES:

1 Coordinate with Engineer to obtain striping details prior to construction. DO NOT stripe between the following stations until an approved design has been provided by the Engineer.
 * WB Sta "C2" 1007+00 to Sta "C2" 1024+00

LEGEND

- Y Inst. 4" yellow line
- W Inst. 4" white line
- WB R-40 Inst. 4" white broken line with recessed pavement markers
- WD Inst. 4" white dotted line
- W-2 Inst. 8" white line
- WB-a R-40 Inst. 4" white broken line with raised pavement markers

1 Revised 07-07-2009
 Revised note



OREGON DEPARTMENT OF TRANSPORTATION

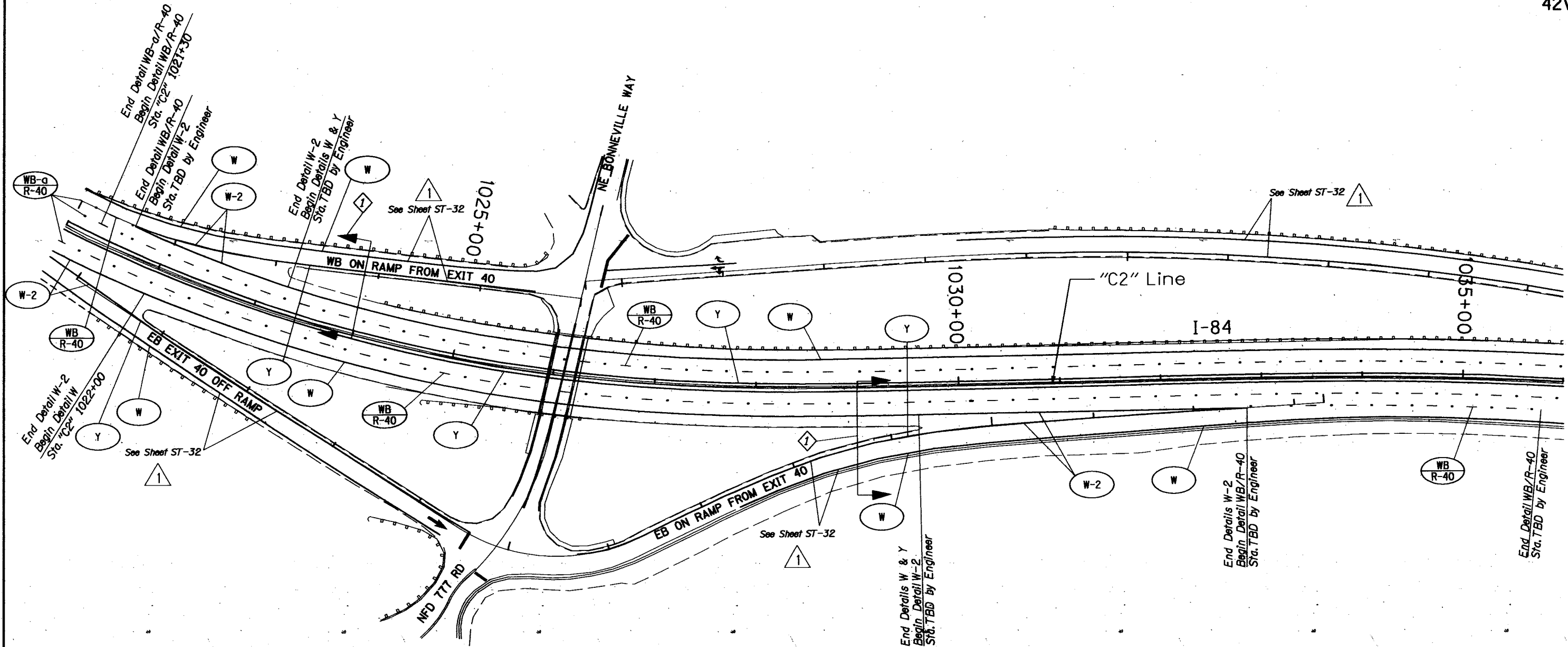
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I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Brian K. Copeland
 Designed By - Jennifer L. Bachman
 Drafted By - DKS CAD

STRIPING PLAN

SHEET NO.
ST-15



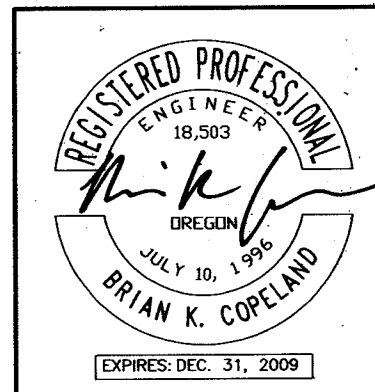
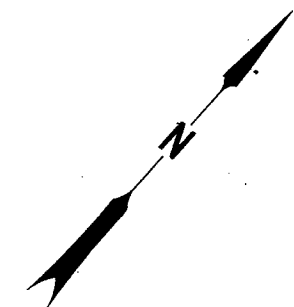
- 1 Revised 06-12-2009
Revised Sheet Details
- 2 Revised 07-07-2009
Revised note

LEGEND

- Y Inst. 4" yellow line
- W Inst. 4" white line
- WB R-40 Inst. 4" white broken line with recessed pavement markers
- W-2 Inst. 8" white line
- WB-R-40 Inst. 4" white broken line with raised pavement markers

CONSTRUCTION NOTES:

- 1 Coordinate with Engineer to obtain striping details prior to construction. DO NOT stripe between the following stations until an approved design has been provided by the Engineer.
 - * WB Sta "C2" 1007+00 to 1024+00
 - * EB Sta "C2" 1029+00 to 1045+00



OREGON DEPARTMENT OF TRANSPORTATION

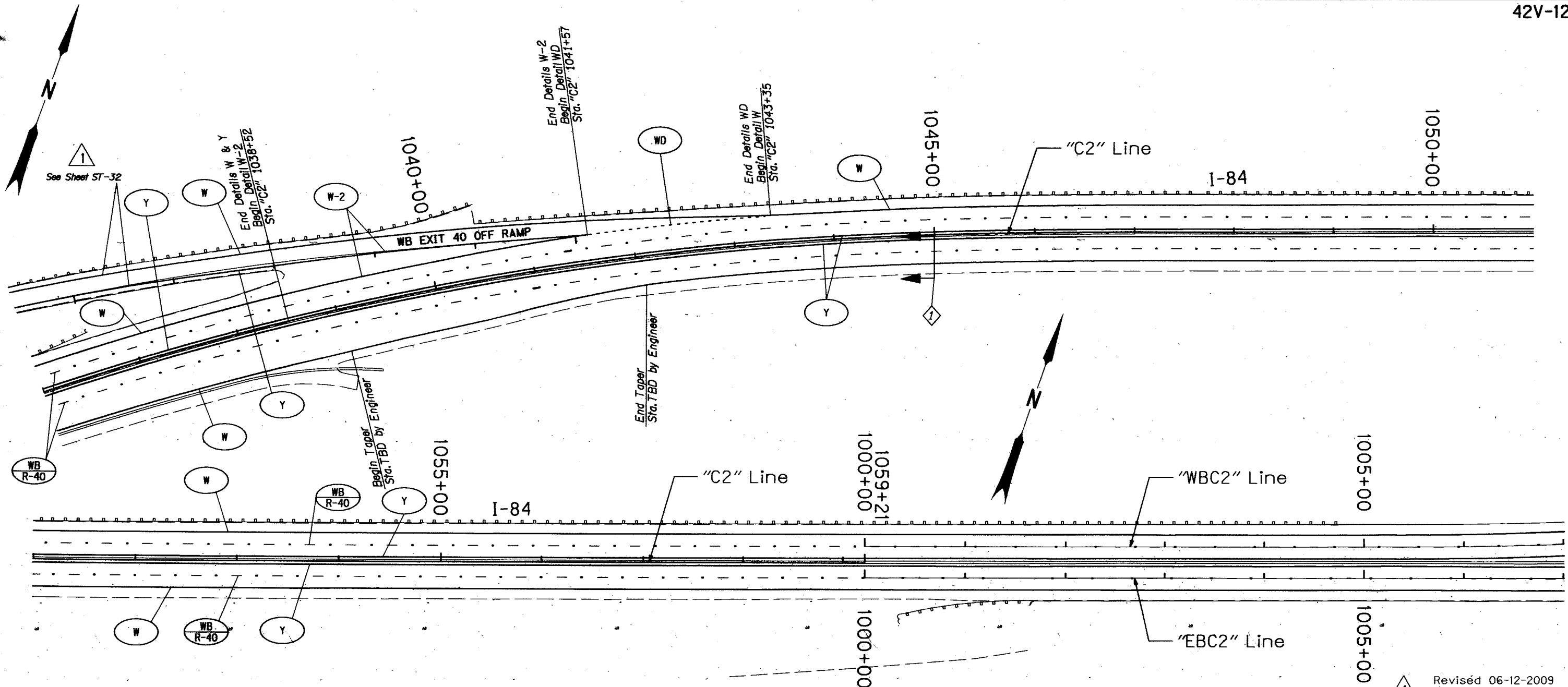
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I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
COLUMBIA RIVER HIGHWAY
MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader: - Brian K. Copeland
Designed By: - Jennifer L. Bachman
Drafted By: - DKS CAD

STRIPING PLAN

SHEET NO.
ST-16

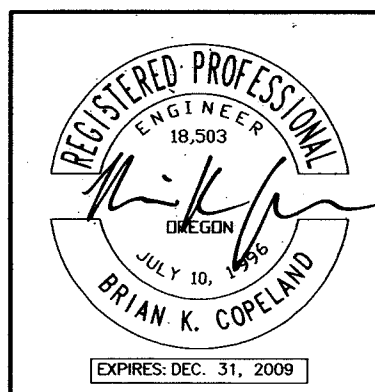


- 1 Revised 06-12-2009
Revised Sheet Details
- 2 Revised 07-07-2009
Revised note

CONSTRUCTION NOTES:

1 Coordinate with Engineer to obtain striping details prior to construction. DO NOT stripe between the following stations until an approved design has been provided by the Engineer.
* EB Sta "C2" 1029+00 to 1045+00

- L E G E N D**
- Y Inst. 4" yellow line
 - W Inst. 4" white line
 - WB R-40 Inst. 4" white broken line with recessed pavement markers
 - WD Inst. 4" white dotted line
 - W-2 Inst. 8" white line



OREGON DEPARTMENT OF TRANSPORTATION

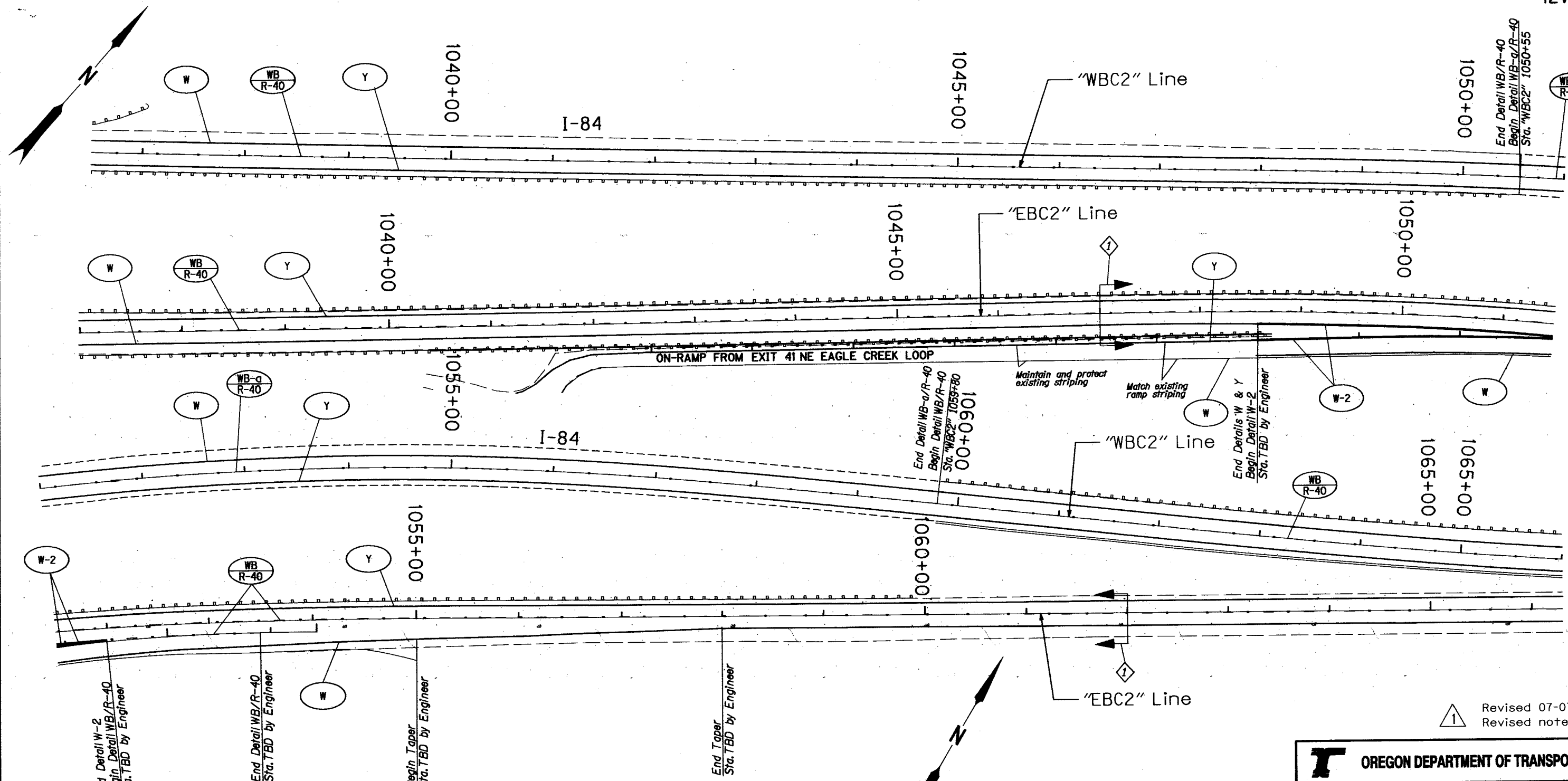
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I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
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


Design Team Leader - Brian K. Copeland
Designed By - Jennifer L. Bachman
Drafted By - DKS CAD

STRIPING PLAN


SHEET NO. **ST-17**




LEGEND

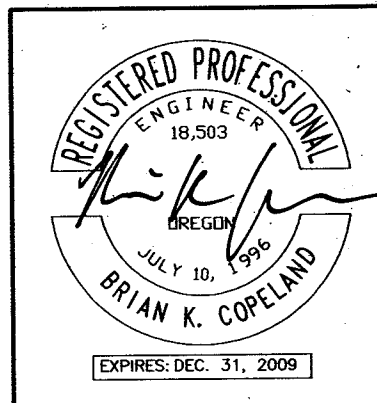
-  Inst. 4" yellow line
-  Inst. 4" white line
-  Inst. 8" white line
-  Inst. 4" white broken line with recessed pavement markers
-  Inst. 4" white broken line with raised pavement markers

CONSTRUCTION NOTES:

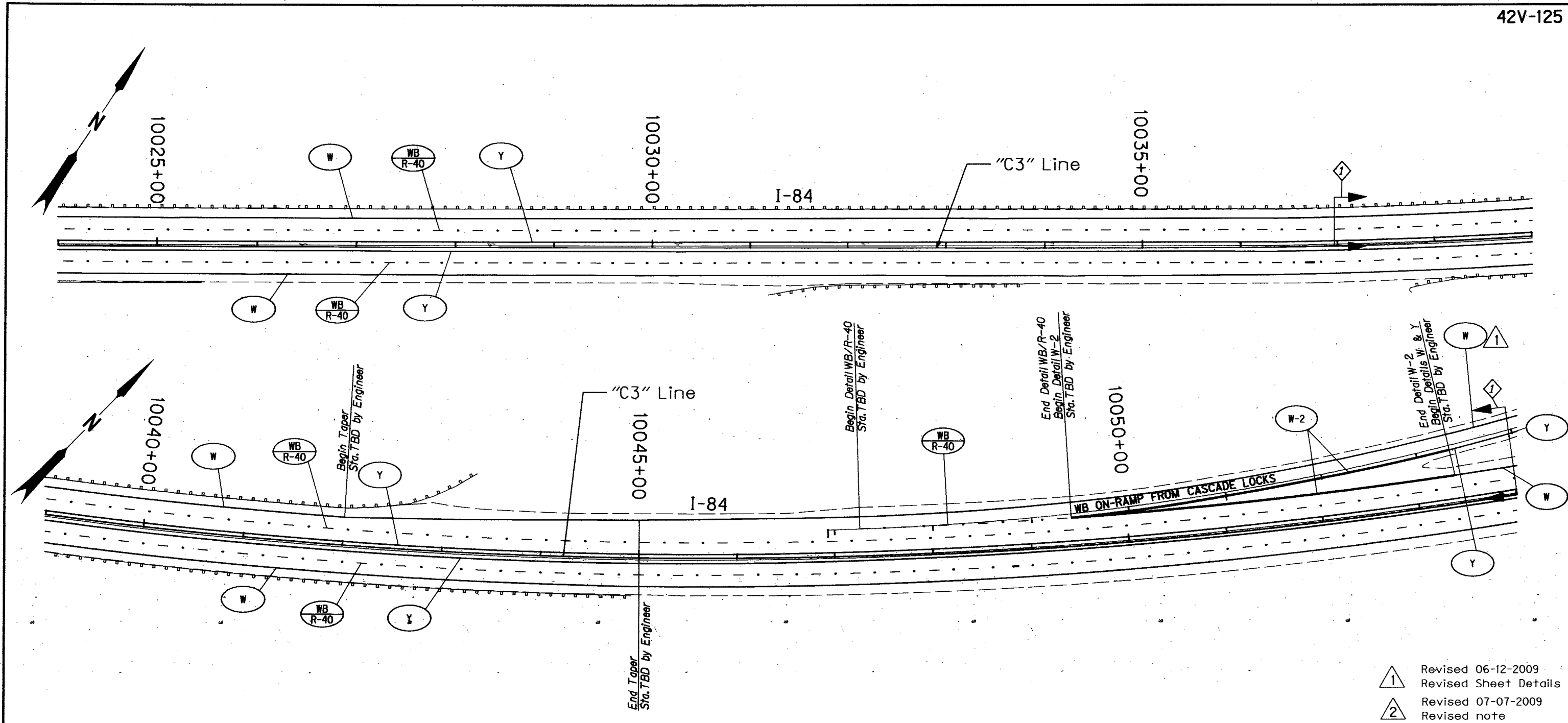
 Coordinate with Engineer to obtain striping details prior to construction. DO NOT stripe between the following stations until an approved design has been provided by the Engineer.
 * EB Sta "C2" 1047+00 to 1062+00



 Revised 07-07-2009
 Revised note



OREGON DEPARTMENT OF TRANSPORTATION	
DKS Associates TRANSPORTATION SOLUTIONS	1400 SW Fifth Avenue, Suite 500 Portland, Oregon 97201-5502 Telephone: (503) 243-3500 Fac: (503) 243-1994
I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC. COLUMBIA RIVER HIGHWAY MULTNOMAH & HOOD RIVER COUNTIES	
Design Team Leader - Brian K. Copeland Designed By - Jennifer L. Bachman Drafted By - DKS CAD	
STRIPING PLAN	SHEET NO. ST-20



- 1 Revised 06-12-2009
Revised Sheet Details
- 2 Revised 07-07-2009
Revised note

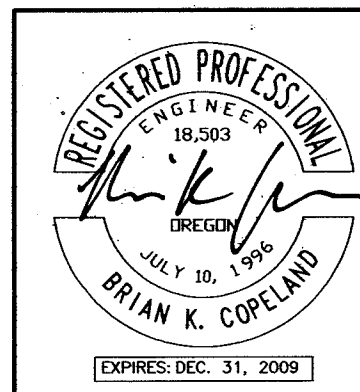
CONSTRUCTION NOTES:

1 Coordinate with Engineer to obtain striping details prior to construction. DO NOT stripe between the following stations until an approved design has been provided by the Engineer.
* WB Sta "C3" 10037+00 to 10054+00



LEGEND

- Y Inst. 4" yellow line
- W Inst. 4" white line
- W-2 Inst. 8" white line
- WB R-40 Inst. 4" white broken line with recessed pavement markers



OREGON DEPARTMENT OF TRANSPORTATION

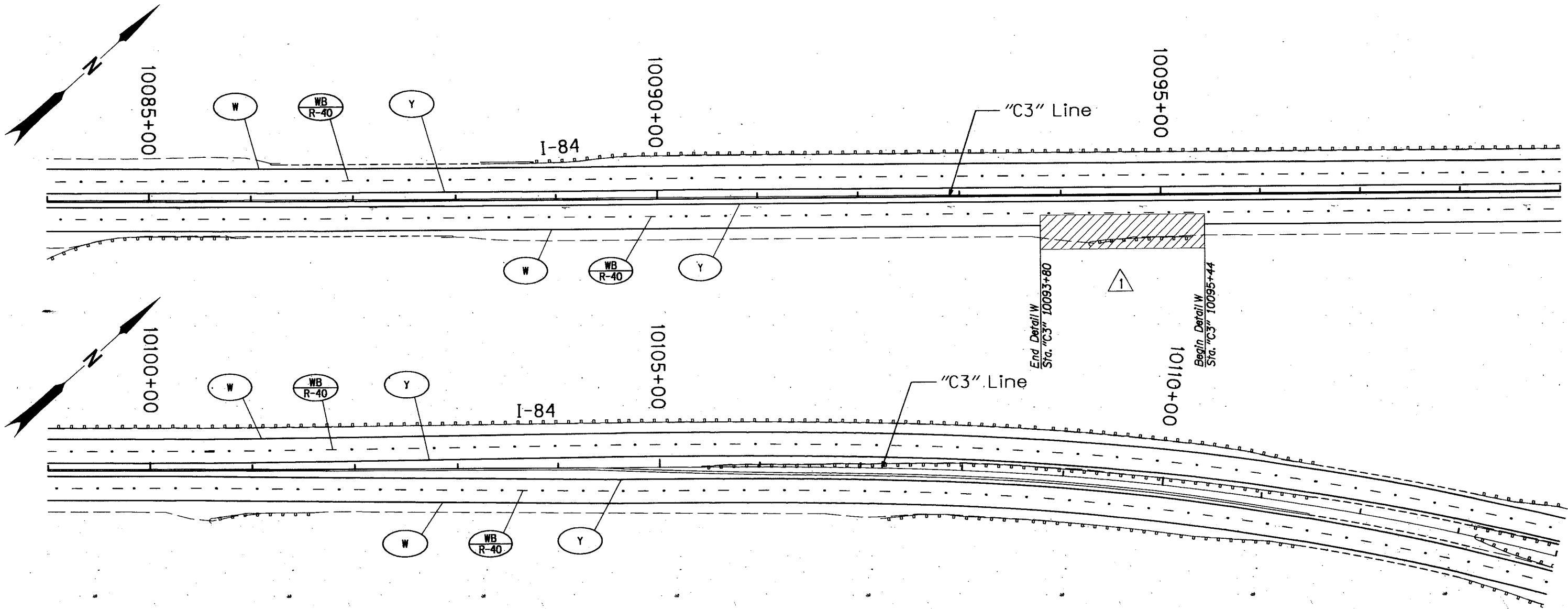
DKS Associates 1400 SW Fifth Avenue, Suite 500 Telephone: (503) 243-3500
TRANSPORTATION SOLUTIONS Portland, Oregon 97201-5502 Fax: (503) 243-1994

I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
COLUMBIA RIVER HIGHWAY
MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Brian K. Copeland
Designed By - Jennifer L. Bachman
Drafted By - DKS CAD

STRIPING PLAN

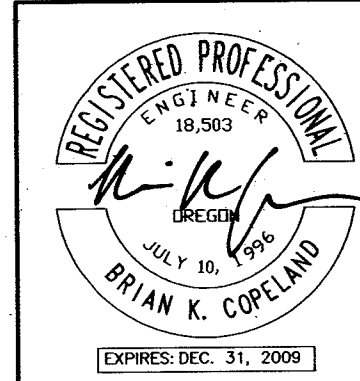
SHEET NO.
ST-22



LEGEND

- Inst. 4" yellow line
- Inst. 4" white line
- Inst. 4" white broken line with recessed pavement markers
- No Work Zone
Sta. "C3" 10093+80 to Sta. "C3" 10095+44

Revised 07-07-2009
Added No Work Zone



OREGON DEPARTMENT OF TRANSPORTATION

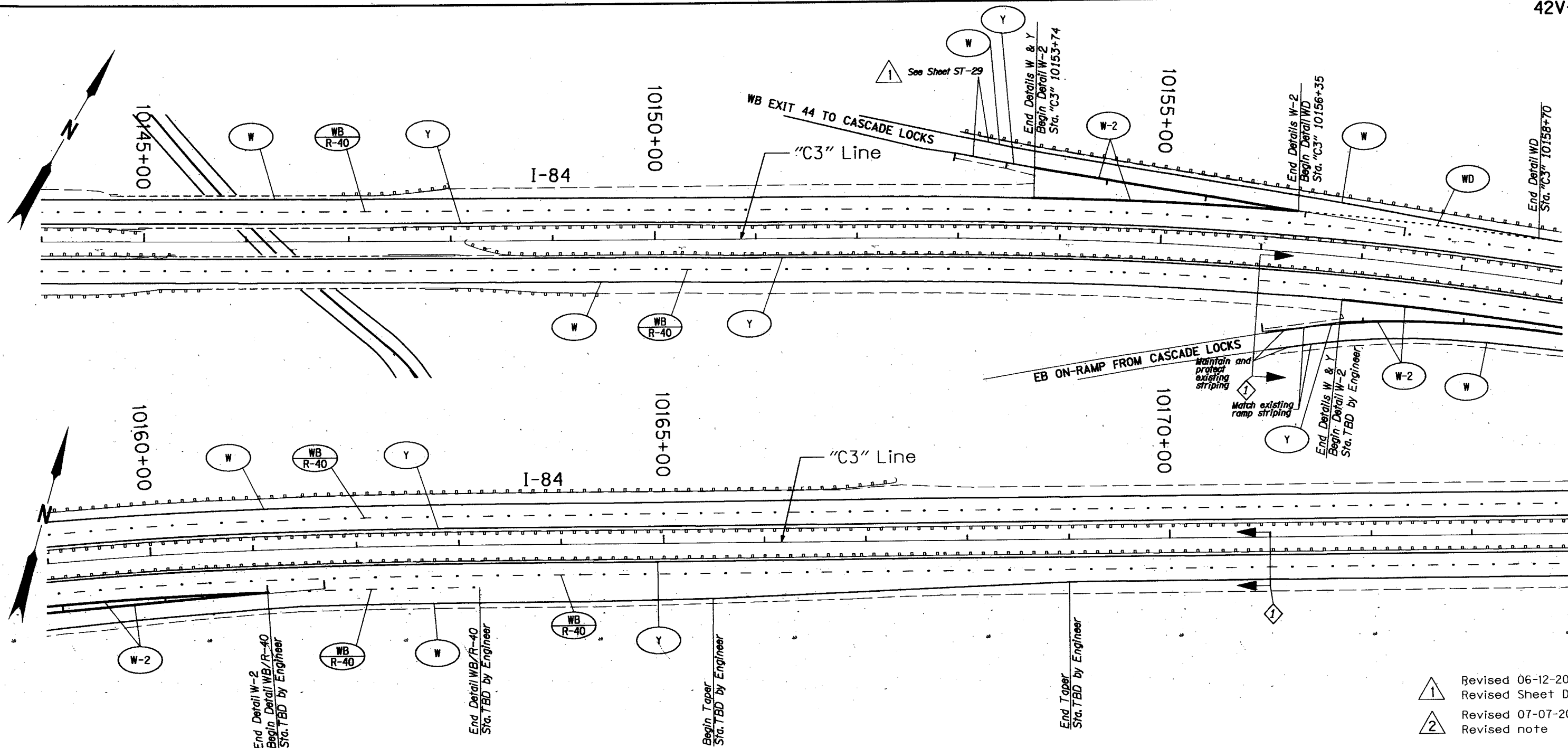
DKS Associates 1400 SW Fifth Avenue, Suite 500 Telephone: (503) 243-3600
TRANSPORTATION SOLUTIONS Portland, Oregon 97201-6502 Fax: (503) 243-1934

I-84: MULTNOMAH FALLS-CASCADE LOCKS' SEC.
COLUMBIA RIVER HIGHWAY
MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Brian K. Copeland
Designed By - Jennifer L. Bachman
Drafted By - DKS CAD

STRIPING PLAN

SHEET NO.
ST-24



- 1 Revised 06-12-2009
Revised Sheet Details
- 2 Revised 07-07-2009
Revised note

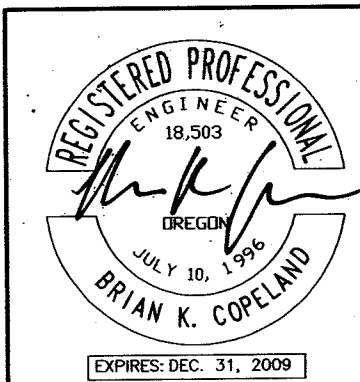
CONSTRUCTION NOTES:

1 Coordinate with Engineer to obtain striping details prior to construction. DO NOT stripe between the following stations until an approved design has been provided by the Engineer.

* EB Sta "C3" 10156+00 to 10171+00

LEGEND

- Y Inst. 4" yellow line
- W Inst. 4" white line
- WB R-40 Inst. 4" white broken line with recessed pavement markers
- WD Inst. 4" white dotted line
- W-2 Inst. 8" white line



OREGON DEPARTMENT OF TRANSPORTATION

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I-84: MULTNOMAH FALLS-CASCADE LOCKS SEC.
 COLUMBIA RIVER HIGHWAY
 MULTNOMAH & HOOD RIVER COUNTIES

Design Team Leader - Brian K. Copeland
 Designed By - Jennifer L. Bachman
 Drafted By - DKS CAD

STRIPING PLAN SHEET NO. **ST-26**

