INDEX OF SHEETS

DRAWING NO.	DESCRIPTION
	ROADWAY
A01	Title Sheet & Index Of Sheets
EC01	Roadway and Sidewalk Transition Details
EC02	Traffic Control Plan - Detour (Day Closure)
EC03	Traffic Control Plan - Detour (Night Closure)
	STRUCTURES
J01	Plan And Elevation
J02	General Notes, Construction Sequence & Conc. Finish Diagram
J03	Reinforced Concrete Bridge End Panel & Joint Details
J04	Rail Details - 1
J05	Rail Details - 2 And Pay Limits Diagram

PLANS FOR PROPOSED PROJECT

END PANEL REPAIR

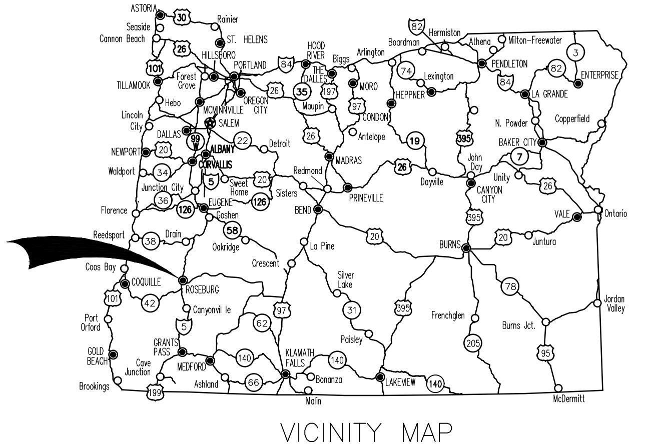
STEWART PARKWAY BRIDGE OVER THE SOUTH UMPQUA RIVER

BRIDGE NO. 26T09

CITY OF ROSEBURG - DOUGLAS COUNTY

MARCH 2021

CITY PROJECT: 19PW10



VICINITY MAP

OVERALL LENGTH OF PROJECT - 0.04 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.)

LET'S ALL WORK TOGETHER TO MAKE THIS JOB SAFE

SAFETY FIRST

ODOT Std. Dwg. Nos.

RD400 - Guardrail And Metal Median Barrier

RD405 - Guardrail And Metal Median Barrier Parts

RD410 - Guardrail Parts (Thrie Beam)

RD415 - Guardrail And Metal Median Barrier Parts

RD451 - Wood Breakaway Posts

TM800 - Tables, Abrupt Edge And PCMS Details

TM820 - Temporary Barricades

TM821 - Temporary Sign Supports

TM822 - Temporary Sign Supports

TM840 - Closure Details

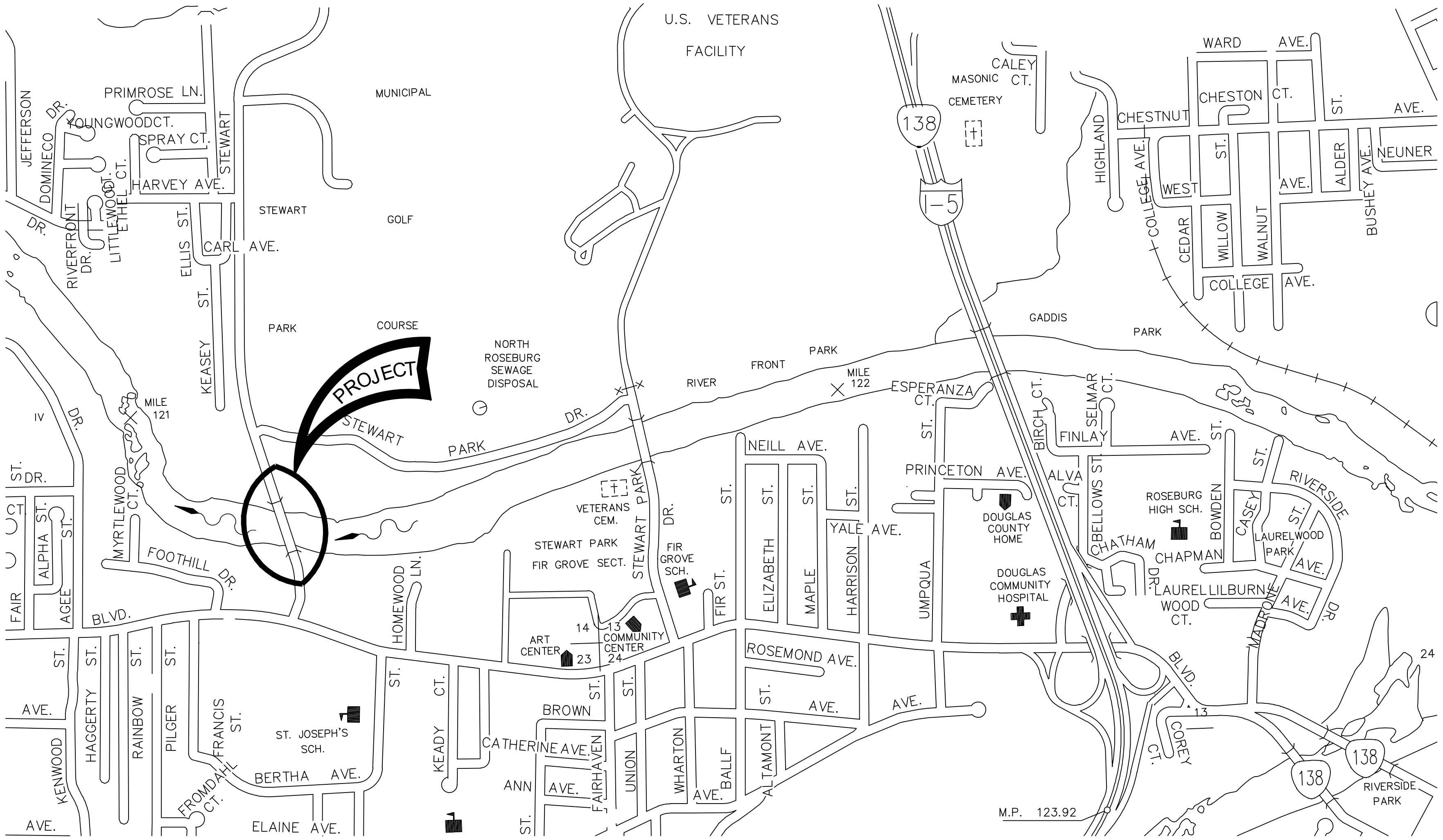
TM843 - Mult-Lane Signalized Intersection Details

TM844 - Temporary Pedestrian Access Routing

BR139 - Expansion Joint With Preformed Compression Seals

BR165 - Bridge End Panel

BR203 - Transition Concrete Bridge Rail To Guardrail



SEC. 14, T.27S, R. 6W W.M.

REGISTERED PROFESSIONAL ENGINEER
85555
Michael McNulty Date: 2021.02.24 13:55:41-08'00'
OREGON
DECEMBER 21, 2011
MICHAEL G. McNULTY
EXPIRES: 12/31/2022

△	DATE	REVISION	BY

ACCOMPANIED BY DRAWINGS:
See Above

SCALE WARNING

If scale bar does not measure one inch, then drawing is not to scale

STEWART PARKWAY BRIDGE END PANEL REPAIR
OVER THE SOUTH UMPQUA RIVER
BRIDGE NO. 26T09 - CITY OF ROSEBURG
DOUGLAS COUNTY

TITLE SHEET AND INDEX OF SHEETS

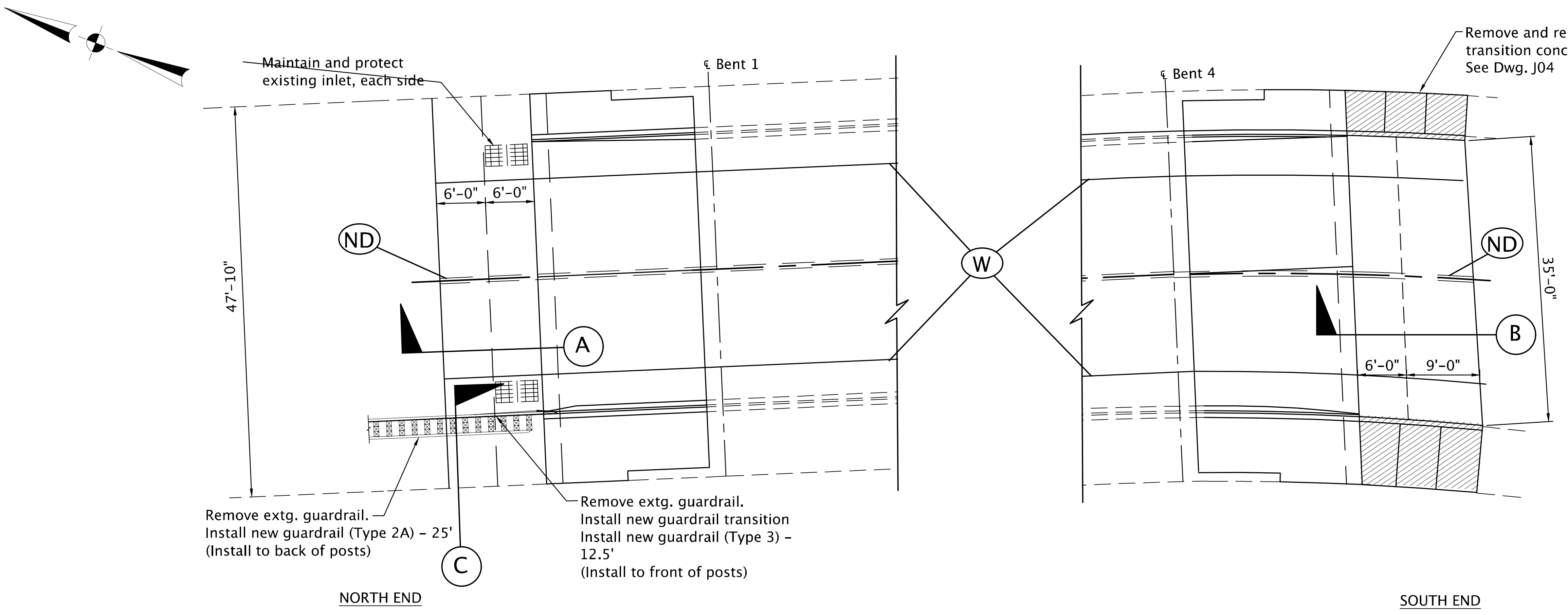
900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 19PW10
PUBLIC WORKS DIRECTOR
NIKKI MESSENGER, P.E.

DOWL
4275 Commercial St. SE, Ste. 100
Salem, Oregon 97302
503-589-4100
WWW.DOWL.COM

DESIGNER: Pavan Patel, E.I.T.	REVIEWER: Jared Trowbridge, P.E.
CHECKER: Michael G. McNulty, P.E.	DRAFTER: DOWL CAD

DATE	STRUCTURE NO.	CALC. BOOK	SHEET	DRAWING NO.
February 2021	26T09	N/A	1 OF 4	A01



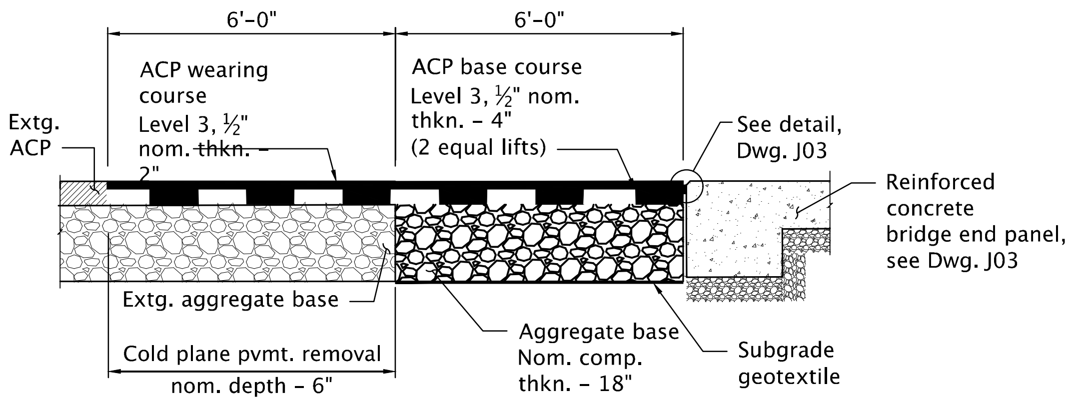
PERMANENT STRIPING

(W) Inst. 4" white line

(ND) Inst. 4" yellow narrow double no-pass line

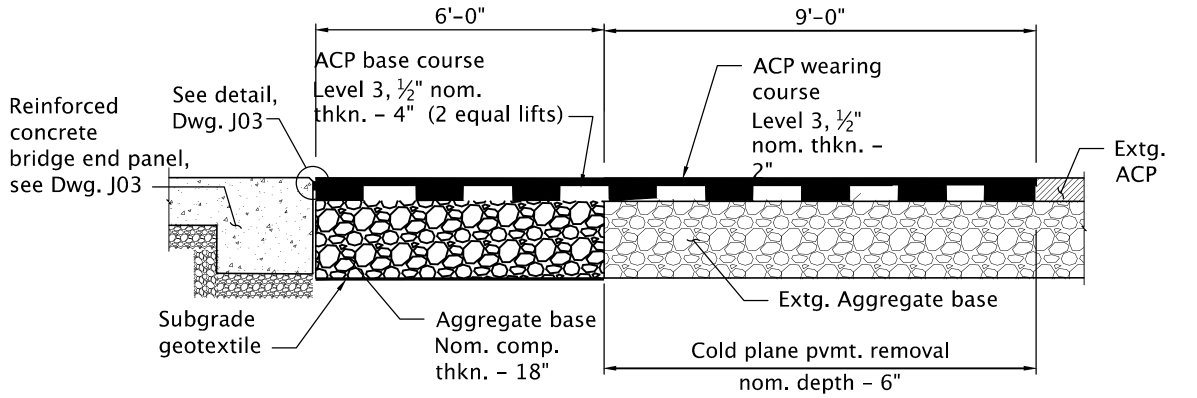
PLAN - END PANEL PAVEMENT TRANSITION AND SIDEWALK REPLACEMENT

SCALE: 1/16" = 1'-0"



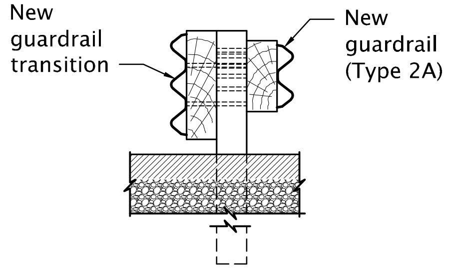
SECTION A

SCALE: 1/4" = 1'-0"



SECTION B

SCALE: 1/4" = 1'-0"



SECTION C

SCALE: 1/4" = 1'-0"

70925
STANLEY ANGELOFF PETROFF
JUNE 14, 2007
Digitally Signed Date: 2021.02.20 13:24:10-08'00'

EXPIRES: 12/31/2022

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 19PW10
PUBLIC WORKS DIRECTOR
NIKKI MESSENGER, P.E.

△	DATE	REVISION	BY

ACCOMPANIED BY DRAWINGS:
See Sheet A01

SCALE WARNING
If scale bar does not measure one inch, then drawing is not to scale

STEWART PARKWAY BRIDGE END PANEL REPAIR
OVER THE SOUTH UMPQUA RIVER
BRIDGE NO. 26T09 - CITY OF ROSEBURG
DOUGLAS COUNTY

ROADWAY AND SIDEWALK TRANSITION DETAILS

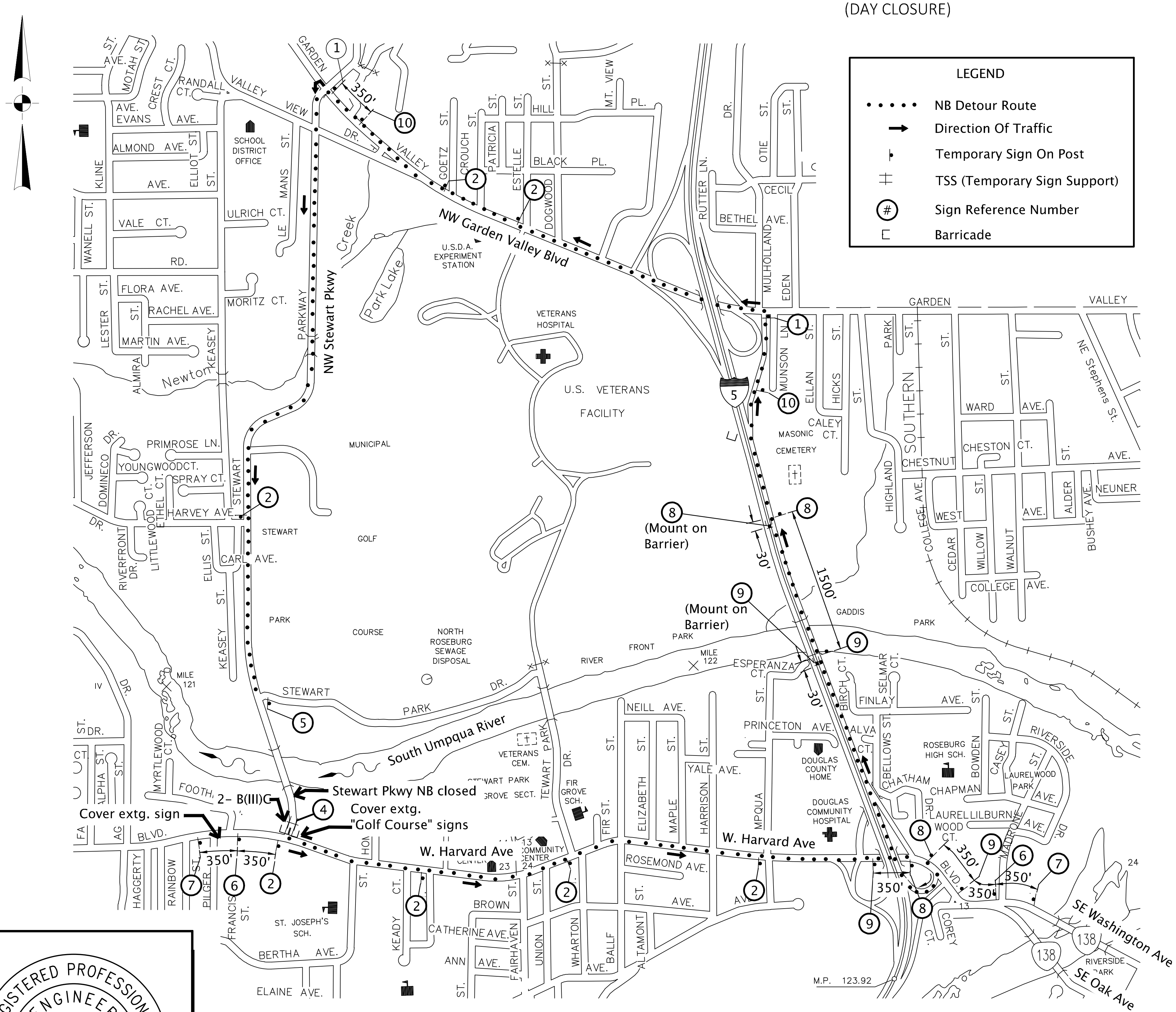
DOWL
4275 Commercial St. SE, Ste. 100
Salem, Oregon 97302
503-589-4100
WWW.DOWL.COM

DESIGNER: Colton Fisher, E.I.T.	REVIEWER: Stan Petroff, P.E.
CHECKER: Mike Sweeney	DRAFTER: DOWL CAD

DATE	STRUCTURE NO.	CALC. BOOK	SHEET	DRAWING NO.
February 2021	26T09	N/A	2 OF 4	EC01

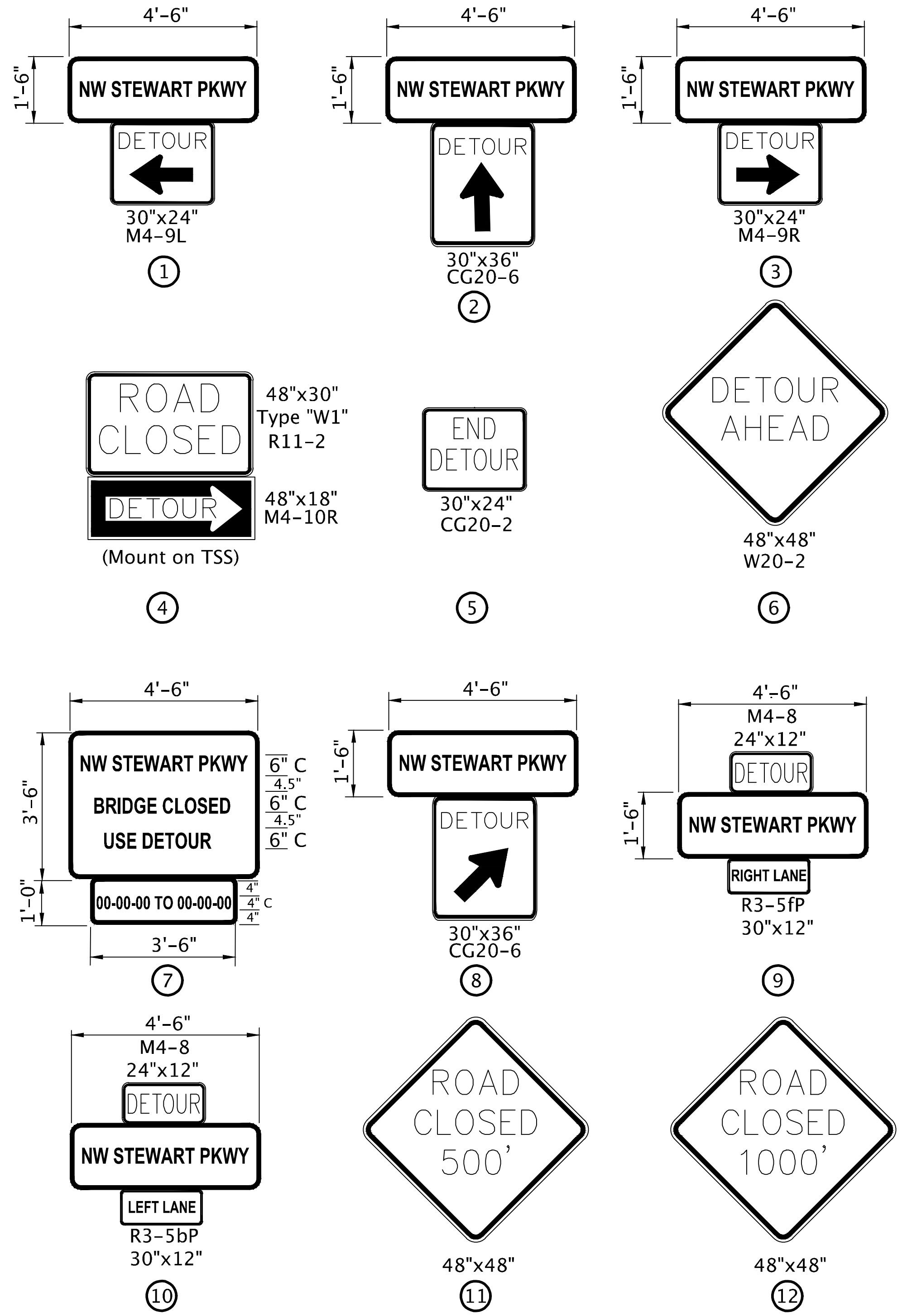
C:\DOWL_PW\D0389593\0051-0012_02_ROADWAY AND SIDEWALK.DWG 2021/02/17 09:33

DETOUR
(DAY CLOSURE)



LEGEND

• • • • •	NB Detour Route
→	Direction Of Traffic
⊢	Temporary Sign On Post
‡	TSS (Temporary Sign Support)
(#)	Sign Reference Number
⊏	Barricade



STEWART PKWY BR CLOSED	USE DETOUR EXIT 125

PORTABLE CHANGEABLE MESSAGE SIGN A
(SUGGESTED MESSAGE AS Directed By Engineer)
(Place Sign At I-5 NB M.P. 123.5))

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 19PW10
PUBLIC WORKS DIRECTOR
NIKKI MESSENGER, P.E.

REGISTERED PROFESSIONAL ENGINEER
70925
Digitally Signed Date: 2021.02.20 13:25:19-08'00'
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/2022

△	DATE	REVISION	BY

ACCOMPANIED BY DRAWINGS:
See Sheet A01

SCALE WARNING
If scale bar does not measure one inch, then drawing is not to scale

STEWART PARKWAY BRIDGE END PANEL REPAIR OVER THE SOUTH UMPQUA RIVER
BRIDGE NO. 26T09 - CITY OF ROSEBURG
DOUGLAS COUNTY

TRAFFIC CONTROL PLAN - DETOUR (DAY CLOSURE)

DOWL
4275 Commercial St. SE, Ste. 100
Salem, Oregon 97302
503-589-4100
WWW.DOWL.COM

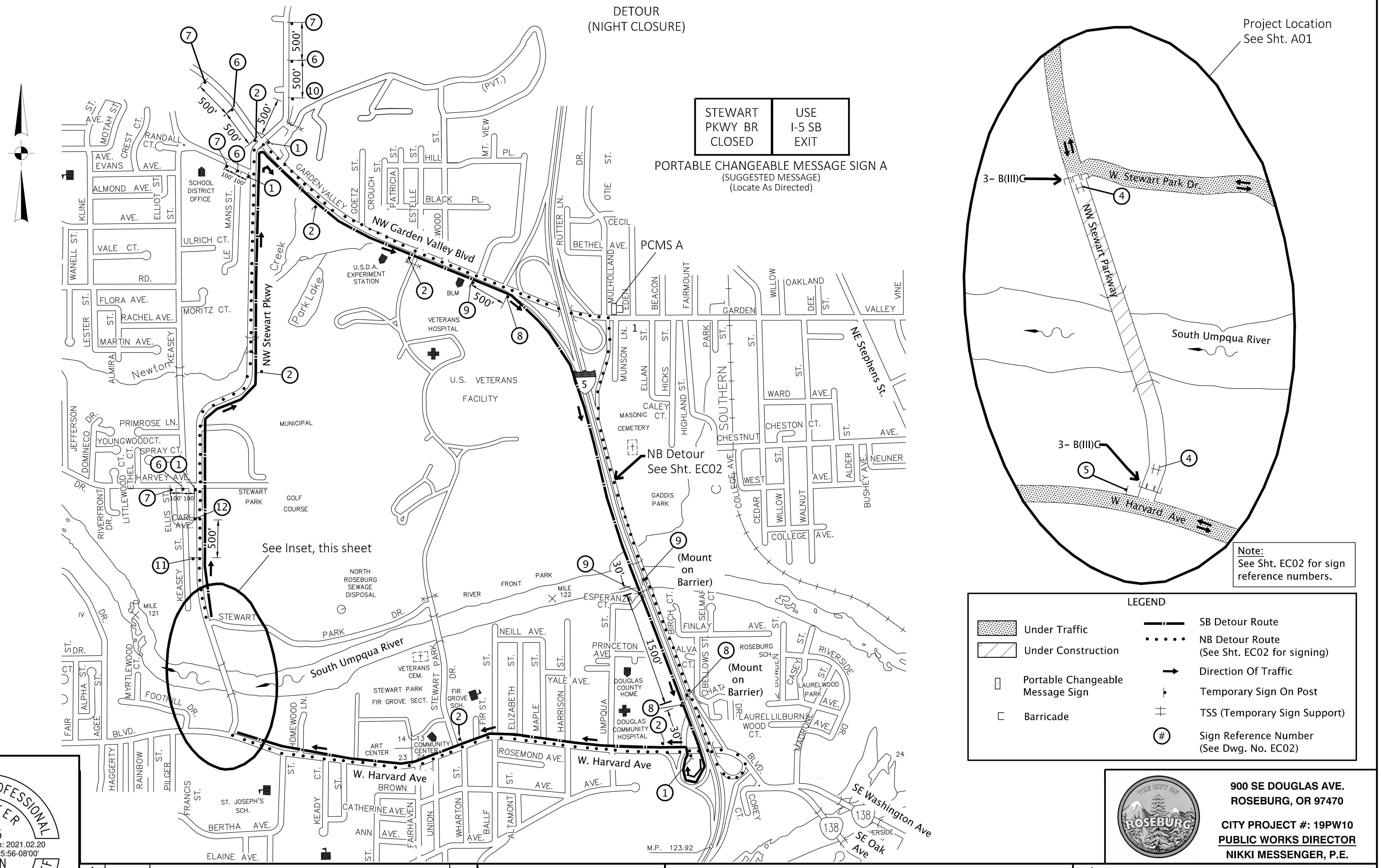
DESIGNER: Colton Fisher, E.I.T.	REVIEWER: Stan Petroff, P.E.
CHECKER: Mike Sweeney	DRAFTER: DOWL CAD

DATE	STRUCTURE NO.	CALC. BOOK	SHEET	DRAWING NO.
February 2021	26T09	N/A	3 OF **4**	EC02

DETOUR
(NIGHT CLOSURE)

STEWART PKWY BR CLOSED	USE I-5 SB EXIT

PORTABLE CHANGEABLE MESSAGE SIGN A
(SUGGESTED MESSAGE)
(Locate As Directed)



Note:
See Sht. EC02 for sign reference numbers.

LEGEND

Symbol	Description
▨	Under Traffic
▧	Under Construction
▯	Portable Changeable Message Sign
⊏	Barricade
━ · ━	SB Detour Route
• • • •	NB Detour Route (See Sht. EC02 for signing)
→	Direction Of Traffic
⊢	Temporary Sign On Post
‡	TSS (Temporary Sign Support)
(#)	Sign Reference Number (See Dwg. No. EC02)

REGISTERED PROFESSIONAL ENGINEER
70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
Digitally Signed Date: 2021.02.20 13:25:56-08'00'
EXPIRES: 12/31/2022

	DATE	REVISION	BY

ACCOMPANIED BY DRAWINGS:
See Sheet A01

SCALE WARNING
If scale bar does not measure one inch, then drawing is not to scale

STEWART PARKWAY BRIDGE END PANEL REPAIR OVER THE SOUTH UMPQUA RIVER
BRIDGE NO. 26T09 - CITY OF ROSEBURG
DOUGLAS COUNTY

TRAFFIC CONTROL PLAN - DETOUR (NIGHT CLOSURE)

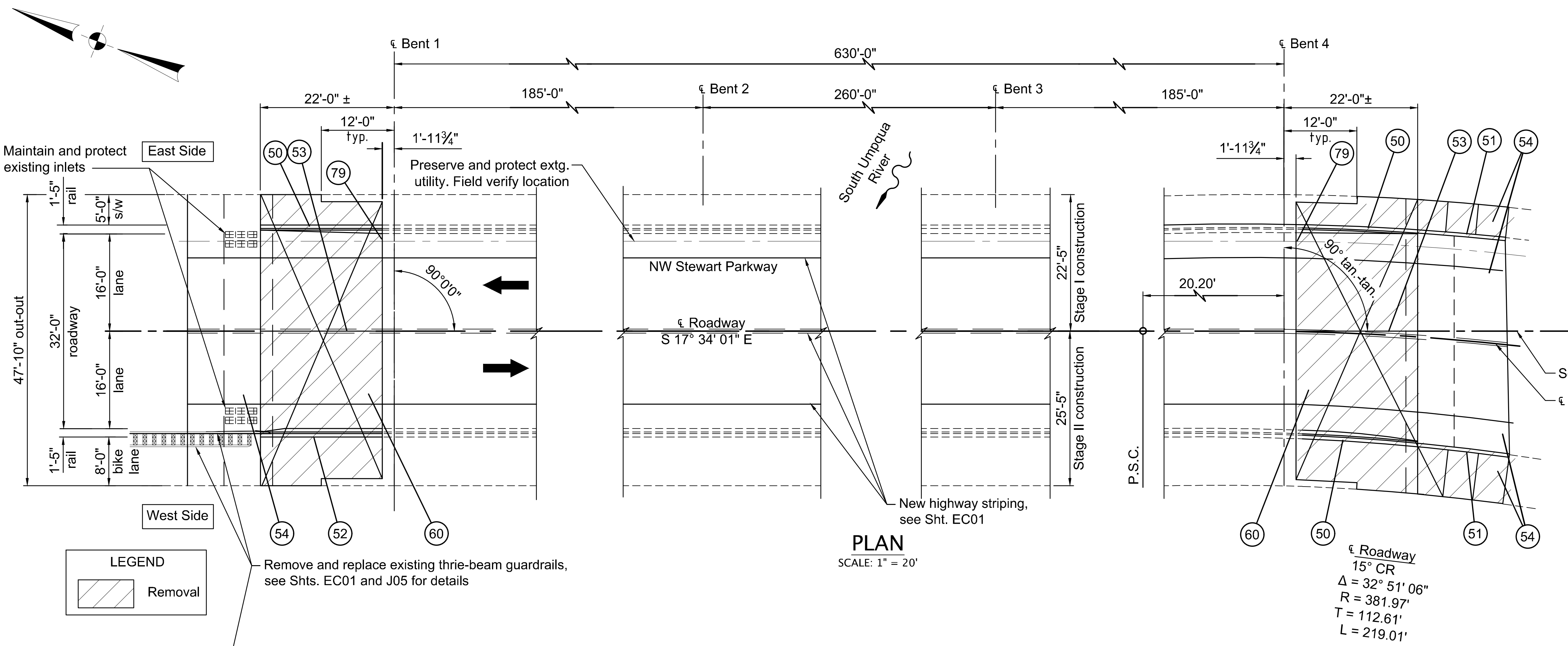
900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 19PW10
PUBLIC WORKS DIRECTOR
NIKKI MESSENGER, P.E.

DOWL
4275 Commercial St. SE, Ste. 100
Salem, Oregon 97302
503-589-4100
WWW.DOWL.COM

DESIGNER:	Colton Fisher, E.I.T.	REVIEWER:	Stan Petroff, P.E.
CHECKER:	Mike Sweeney	DRAFTER:	DOWL CAD

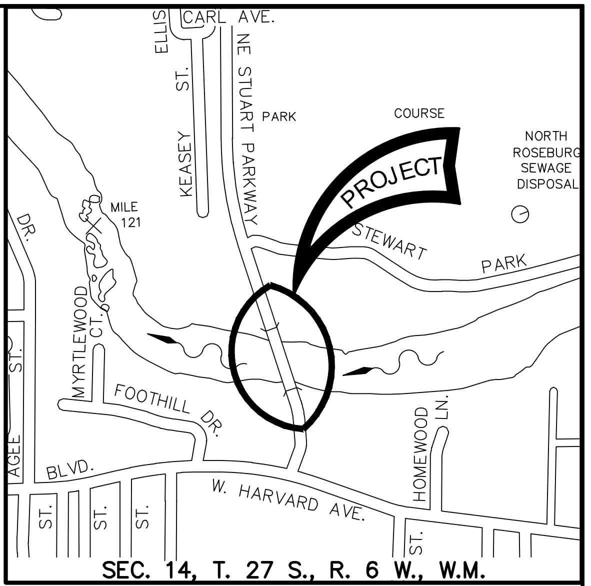
DATE	STRUCTURE NO.	CALC. BOOK	SHEET	DRAWING NO.
February 2021	26T09	N/A	4 OF 4	EC03



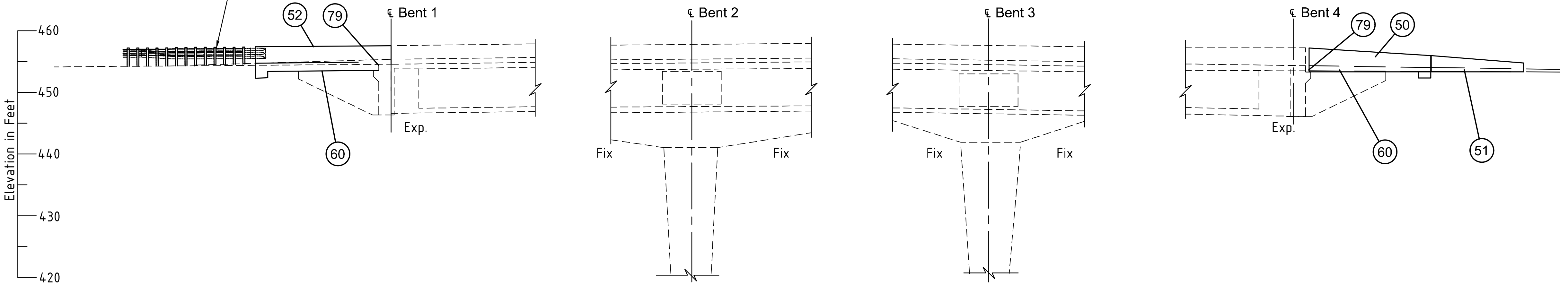
LEGEND

▨	Removal

PLAN
SCALE: 1" = 20'



LOCATION MAP
No Scale



DEVELOPED ELEVATION
SCALE: 1" = 20'

Detail Reference Numbers:

(50)	Replacement Type "F" concrete rail transition, modified, see Dwg. J04.
(51)	Replacement monolithic curb and sidewalk, modified, see Dwg. J04.
(52)	Replacement Type "F" concrete rail, modified, see Dwg. J05.
(53)	Longitudinal joint connecting staged bridge end panels, see Dwg. J03.
(54)	End panel pavement transition, see Dwg. EC01.
(60)	Stage constructed 20'-0" reinforced concrete bridge end panel with longitudinal joint, sleeper slab, see Dwg. J03.
(79)	Compression seals, see Dwg. J03.

Note:
Elevations shown are based on North American Vertical Datum (1988)

85555
Michael McNulty Date: 2021.02.24 13:55:27-08'00'
DECEMBER 21, 2011
MICHAEL G. McNULTY
EXPIRES: 12/31/2022

△	DATE	REVISION	BY

ACCOMPANIED BY DRAWINGS:
See Sheet A01

SCALE WARNING
If scale bar does not measure one inch, then drawing is not to scale

STEWART PARKWAY BRIDGE END PANEL REPAIR OVER THE SOUTH UMPQUA RIVER
BRIDGE NO. 26T09 - CITY OF ROSEBURG
DOUGLAS COUNTY

PLAN AND ELEVATION

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 19PW10
PUBLIC WORKS DIRECTOR
NIKKI MESSENGER, P.E.

4275 Commercial St. SE, Ste. 100
Salem, Oregon 97302
503-589-4100
WWW.DOWL.COM

DESIGNER: Pavan Patel, E.I.T.
REVIEWER: Jared Trowbridge, P.E.
CHECKER: Michael G. McNulty, P.E.
DRAFTER: DOWL CAD

DATE	STRUCTURE NO.	CALC. BOOK	SHEET	DRAWING NO.
February 2021	26T09	N/A	1 OF 5	J01

GENERAL NOTES:

Provide all materials and perform all work according to the Oregon Standard Specifications for Construction 2018.

Bridge repairs are designed in accordance with the 2017 edition of the AASHTO LRFD Bridge Design Specifications with an allowance of 25 psf for future wearing surface and all the following Live Loads:

Service and Strength I Limit States:
HL-93: Design truck (or trucks per LRFD 3.6.1.3) or the design tandems and the design lane load.

Provide all reinforcing steel according to ASTM Specification A706 or AASHTO M31 (ASTM A615) Grade 60. Use the following splice lengths unless shown otherwise:

Reinforcing Splice Lengths (Class B) Grade 60 f'_c = 3.3 ksi, λ_{rc} = 0.4, 2" min. concrete clear cover										
Bar Size	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14 & #18
Uncoated	1'-4"	1'-9"	2'-2"	2'-7"	3'-0"	3'-5"	3'-10"	4'-4"	4'-10"	Not permitted

Increase all splice lengths 30% for horizontal or nearly horizontal bars so placed that more than 1'-0" of fresh concrete is cast below the bar.

Splice reinforcing steel at alternate bars, staggered at least one splice length or as far as possible, unless shown otherwise.

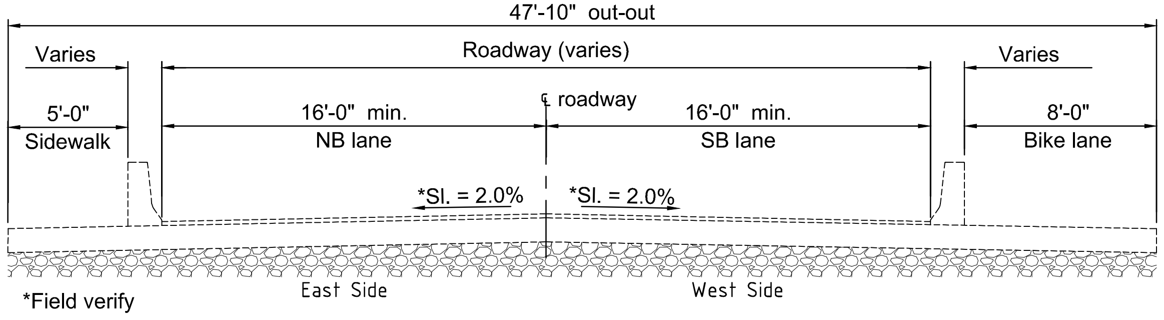
Support the bottom mat reinforcing steel from the forms with precast mortar blocks at 2'-0" maximum centers each way. Support the top mat of reinforcing steel from the bottom mat of reinforcing steel with wire bar supports as shown in Chapter 3 of the CRSI Manual of Standard Practice (SBU, BBU, CHCU). Place wire bar supports at 2'-0" maximum centers.

Place bars 2" clear of the nearest face of concrete unless shown otherwise.

Furnish Class HPC4500 for concrete end panels and sleeper slabs.

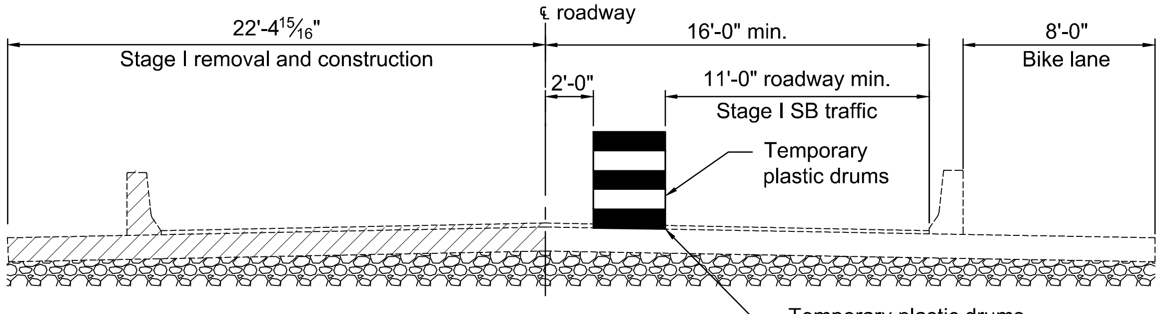
Furnish Class 3300 1 ½", 1" or ¾" structural concrete for other concrete.

Oregon law requires the rules adopted by the Oregon Utilities Notification Center be observed. these rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. Copies of these rules may be obtained from the center or by calling 1-800-322-2344 or 811.

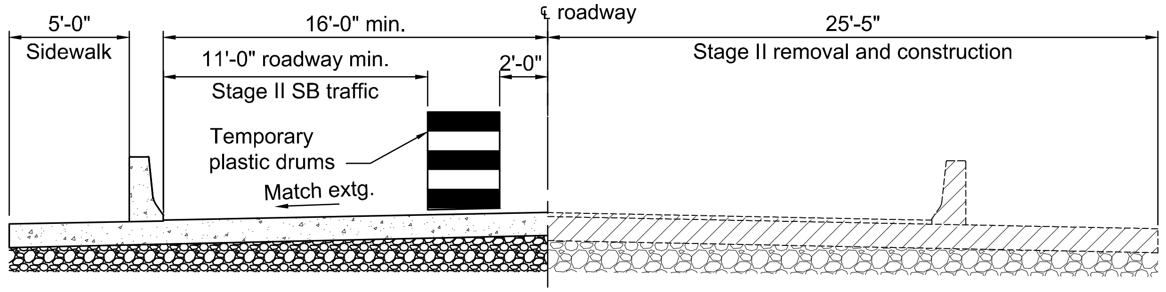


*Field verify

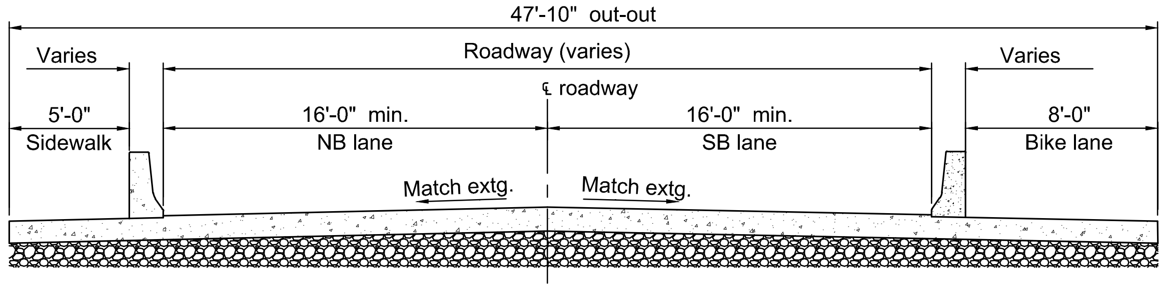
EXISTING BRIDGE END PANEL AND SIDEWALKS



STAGE I



STAGE II



COMPLETED STRUCTURE AND TYPICAL SECTION

CONSTRUCTION SEQUENCE

SCALE: 1/8" = 1'-0"

CONSTRUCTION SEQUENCE NOTES:

Stage I:

1. Remove existing transition bridge rails, transition concrete barriers, sidewalks and partially remove existing end panels at east side of bridge as shown.
2. Construct east sides of new reinforced concrete bridge end panels and elastomeric concrete nosing.
3. Construct Type "F" concrete rail transition, modified, and monolithic curbs and sidewalks on east side.

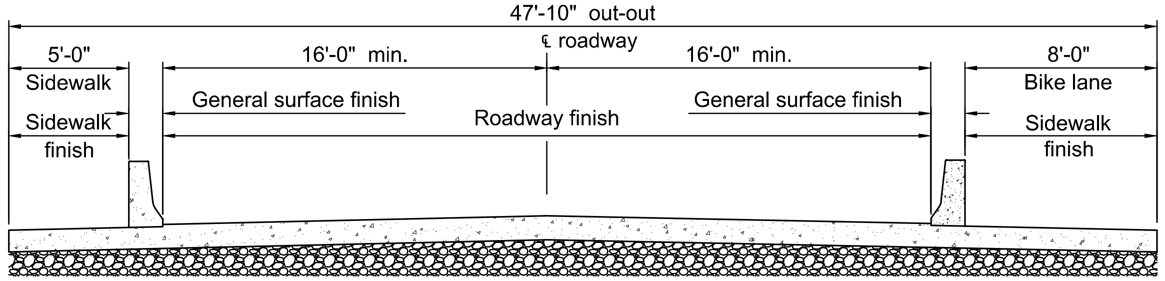
Stage II:

1. Remove existing transition bridge rails, transition bridge rail to thrie-beam guardrail, transition concrete barrier, sidewalks, and remaining portions of end panels at west side of bridge as shown.
2. Construct remainders of new reinforced concrete bridge end panels and elastomeric concrete nosing on west side.
3. Construct Type "F" concrete rail, modified, Type "F" concrete rail transition, modified, and monolithic curbs and sidewalks on west side. Reattach existing guardrail to new Type "F" concrete rail, modified.

Install compression seal joints, full 47'-10" out-out end panel width.

LEGEND

▨ Removal



CONCRETE FINISH DIAGRAM

SCALE: 1/8" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
85555
Michael McNulty Date: 2021.02.24 13:55:10-08'00'
OREGON
DECEMBER 21, 2011
MICHAEL G. McNULTY
EXPIRES: 12/31/2022

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 19PW10
PUBLIC WORKS DIRECTOR
NIKKI MESSENGER, P.E.

△	DATE	REVISION	BY

ACCOMPANIED BY DRAWINGS:
See Sheet A01

SCALE WARNING
If scale bar does not measure one inch, then drawing is not to scale

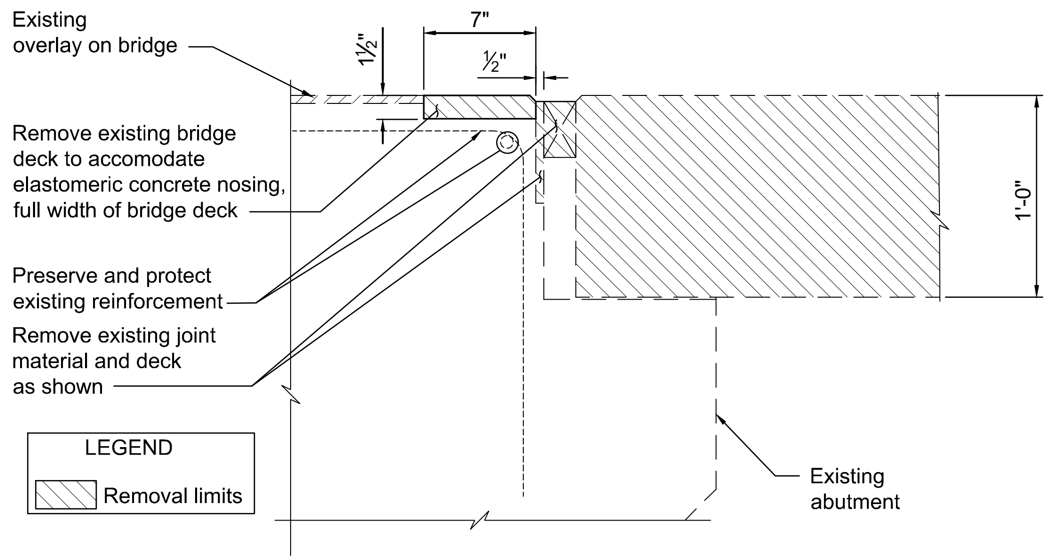
STEWART PARKWAY BRIDGE END PANEL REPAIR
OVER THE SOUTH UMPQUA RIVER
BRIDGE NO. 26T09 - CITY OF ROSEBURG
DOUGLAS COUNTY

GENERAL NOTES, CONSTRUCTION SEQUENCE & CONC. FINISH DIAGRAM

DOWL
4275 Commercial St. SE, Ste. 100
Salem, Oregon 97302
503-589-4100
WWW.DOWL.COM

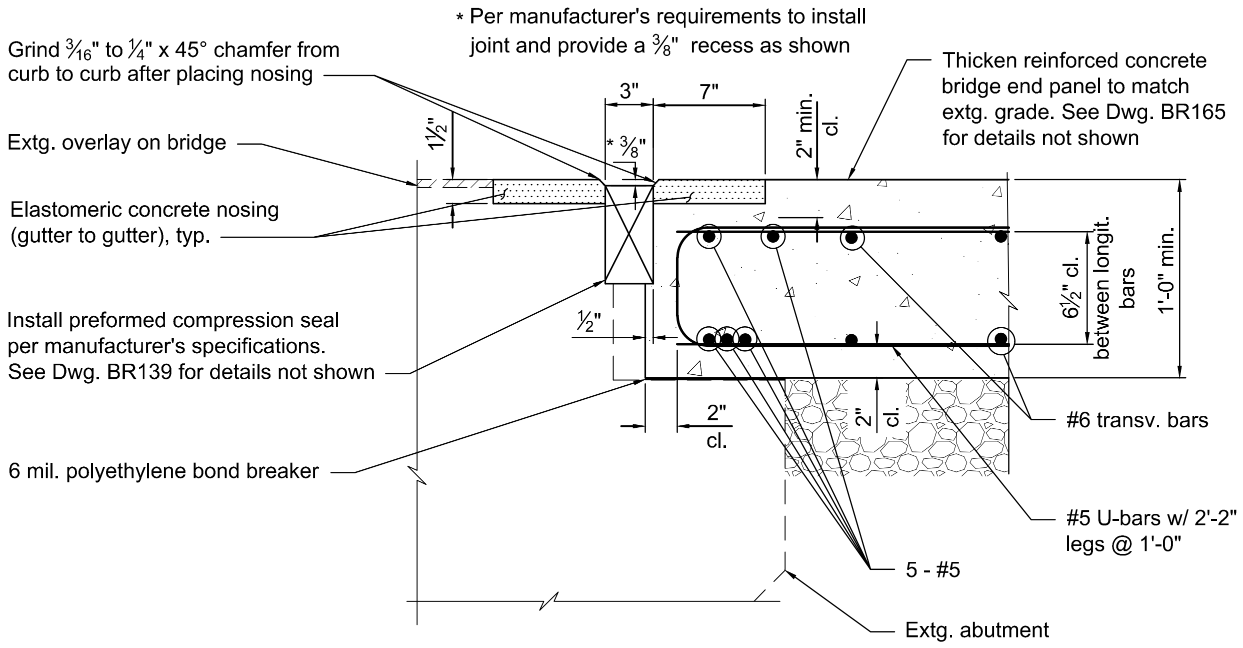
DESIGNER: Pavan Patel, E.I.T.
REVIEWER: Jared Trowbridge, P.E.
CHECKER: Michael G. McNulty, P.E.
DRAFTER: DOWL CAD

DATE	STRUCTURE NO.	CALC. BOOK	SHEET	DRAWING NO.
February 2021	26T09	N/A	2 OF 5	J02



REMOVAL LIMITS (BENTS 1 & 4)

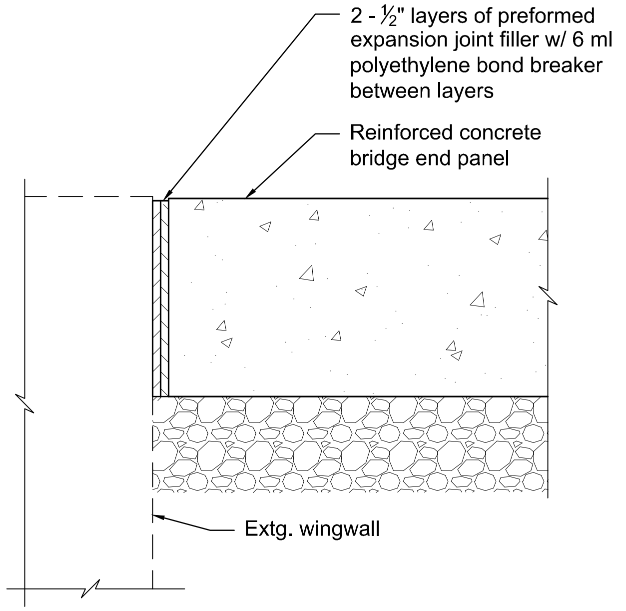
SCALE: 1" = 1'-0"



Joint Setting Note:
Decrease joint setting ¼" for every 10° F of structure temperature above 52° F.
Increase joint setting ¼" for every 10° F of structure temperature below 52° F.

COMPRESSION SEAL

SCALE: 1" = 1'-0"

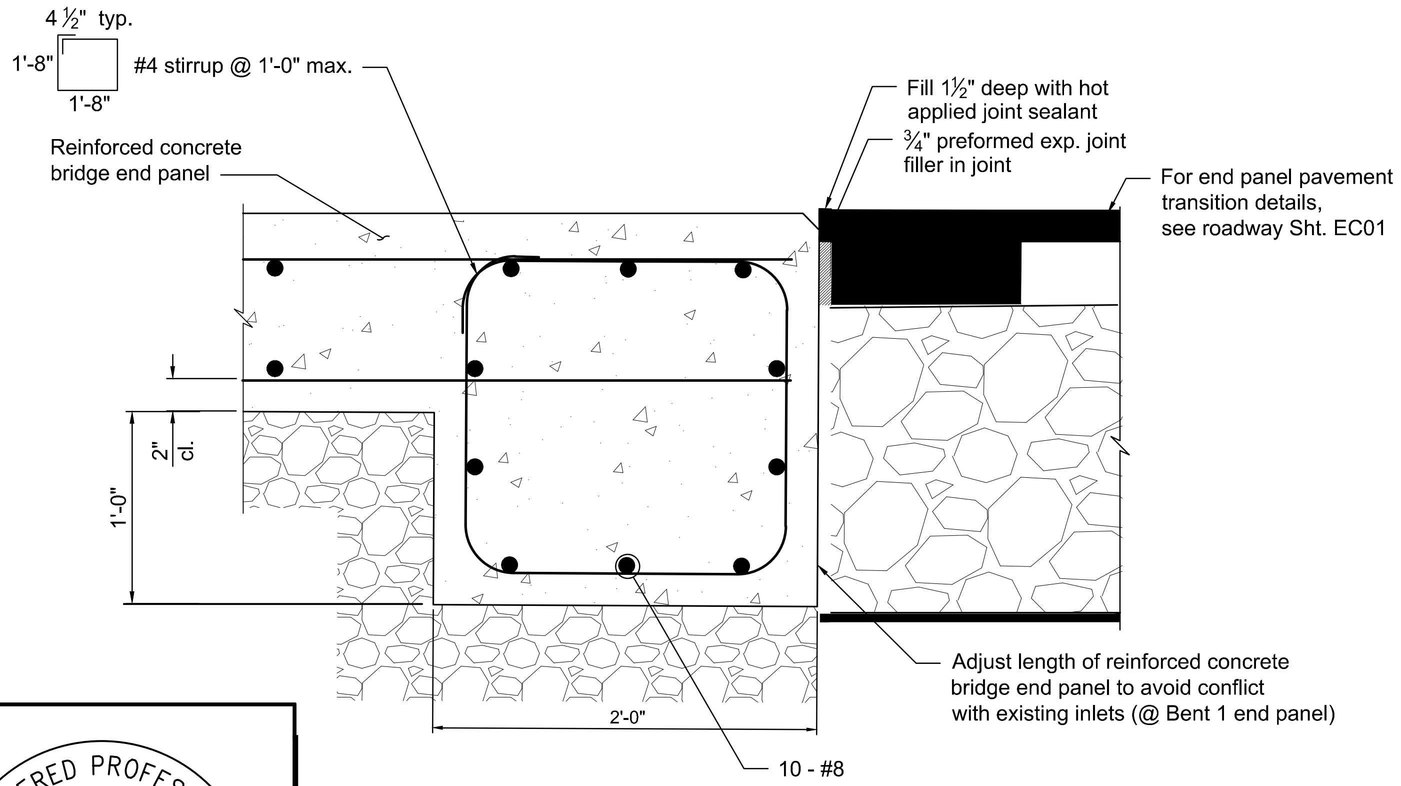


REINFORCED CONCRETE END BRIDGE PANEL AND EXISTING WINGWALL INTERFACE

SCALE: 1" = 1'-0"

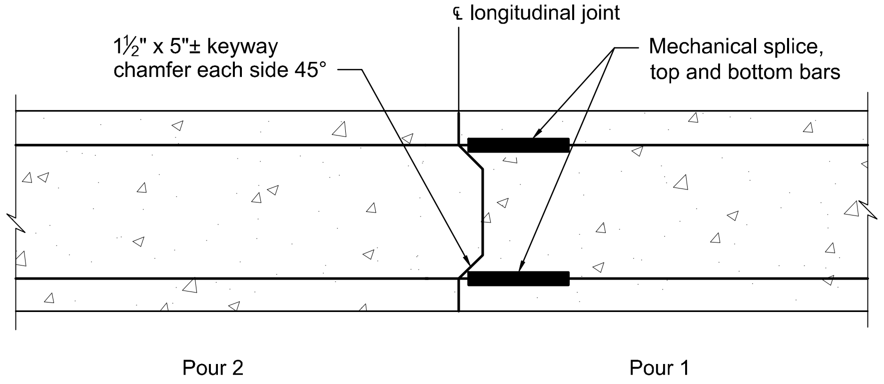
Preformed Compression Seal Joints Table

Total Movement Range	Nominal Size		Joint Width		Minimum Installation Width
	Width	Height	Min.	Max.	
2 ⅜"	5"	5"	$1\frac{15}{16}$"	4¼"	3"



END PANEL SLEEPER DETAILS

SCALE: 1" = 1'-0"



LONGITUDINAL JOINT DETAIL

SCALE: 1" = 1'-0"

85555
Michael McNulty
Date: 2021.02.24 13:54:55-08'00'
OREGON
DECEMBER 21, 2011
MICHAEL G. McNULTY
EXPIRES: 12/31/2022

△	DATE	REVISION	BY

ACCOMPANIED BY DRAWINGS:
See Sheet A01

SCALE WARNING
If scale bar does not measure one inch, then drawing is not to scale

STEWART PARKWAY BRIDGE END PANEL REPAIR
OVER THE SOUTH UMPQUA RIVER
BRIDGE NO. 26T09 - CITY OF ROSEBURG
DOUGLAS COUNTY

REINFORCED CONCRETE BRIDGE END PANEL AND JOINT DETAILS

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

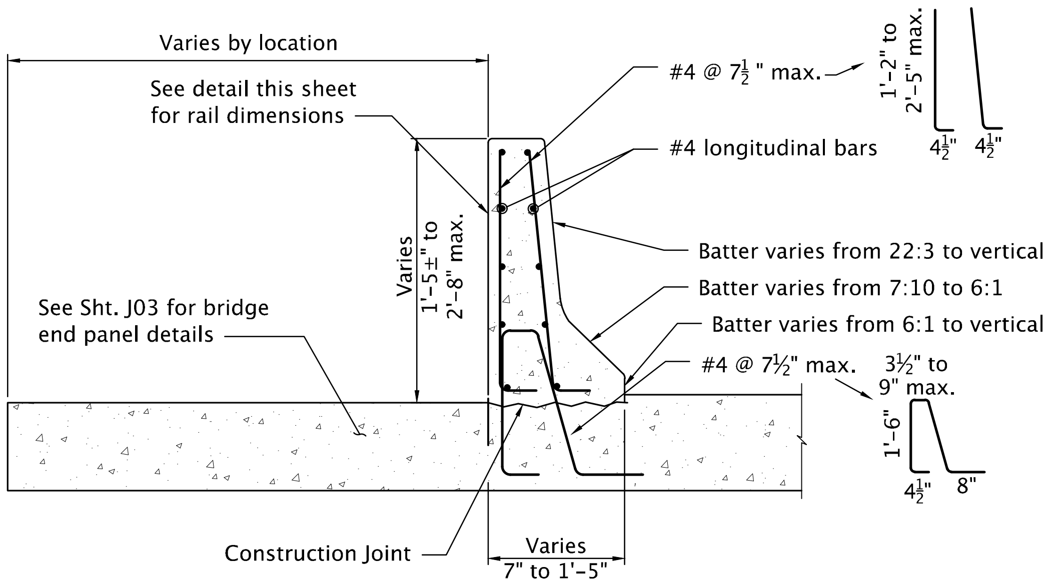
CITY PROJECT #: 19PW10
PUBLIC WORKS DIRECTOR
NIKKI MESSENGER, P.E.

DOWL
4275 Commercial St. SE, Ste. 100
Salem, Oregon 97302
503-589-4100
WWW.DOWL.COM

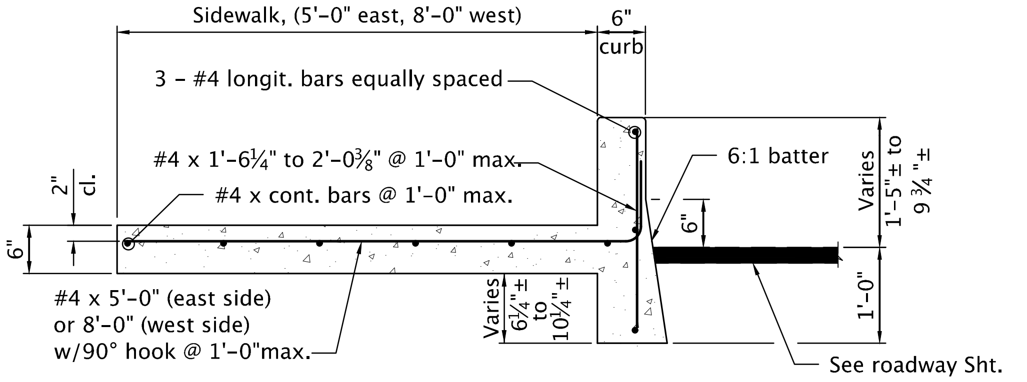
DESIGNER: Pavan Patel, E.I.T.	REVIEWER: Jared Trowbridge, P.E.
CHECKER: Michael G. McNulty, P.E.	DRAFTER: DOWL CAD

DATE	STRUCTURE NO.	CALC. BOOK	SHEET	DRAWING NO.
February 2021	26T09	N/A	3 OF 5	J03

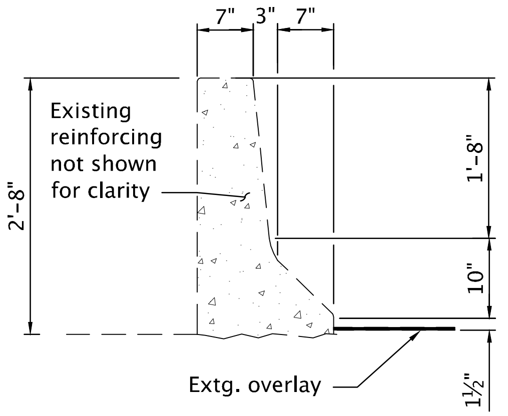
C:\DOWL_PW\D03895593\0051-0012_08_DETAILS-1.DWG 2021/02/17 09:10



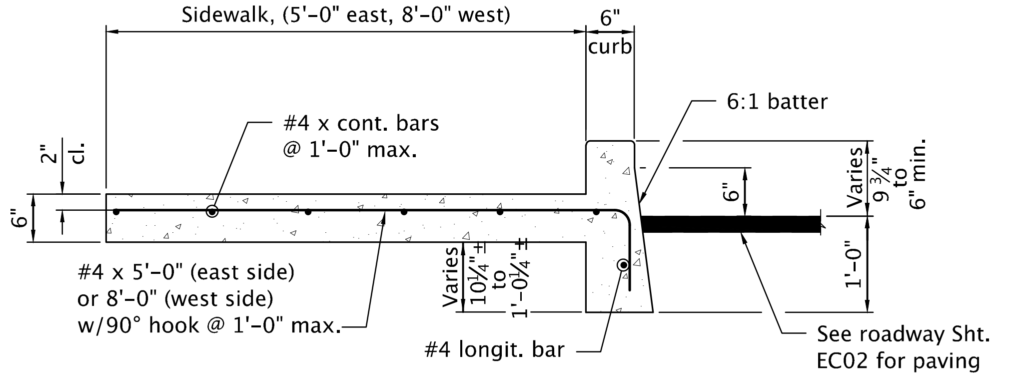
SECTION A
SCALE: 1/2" = 1'-0"



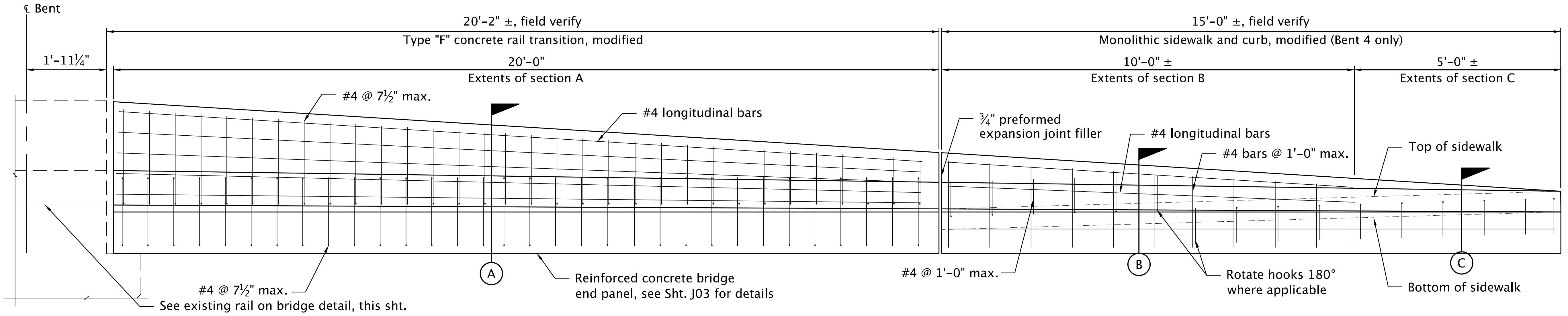
SECTION B
SCALE: 1/2" = 1'-0"



EXISTING RAIL ON BRIDGE
SCALE: 1/2" = 1'-0"



SECTION C
SCALE: 1/2" = 1'-0"



BENT 4 EAST TRANSITION RAIL AND BARRIER REPLACEMENTS (BENT 1 EAST AND BENT 4 WEST SIMILAR)
SCALE: 3/8" = 1'-0"

85555
Michael McNulty
Date: 2021.02.24
13:54:36-08'00'
OREGON
DECEMBER 21, 2011
MICHAEL G. McNULTY
EXPIRES: 12/31/2022

△	DATE	REVISION	BY

ACCOMPANIED BY DRAWINGS:
See Sheet A01

SCALE WARNING
If scale bar does not measure one inch, then drawing is not to scale

STEWART PARKWAY BRIDGE END PANEL REPAIR
OVER THE SOUTH UMPQUA RIVER
BRIDGE NO. 26T09 - CITY OF ROSEBURG
DOUGLAS COUNTY

RAIL DETAILS - 1

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

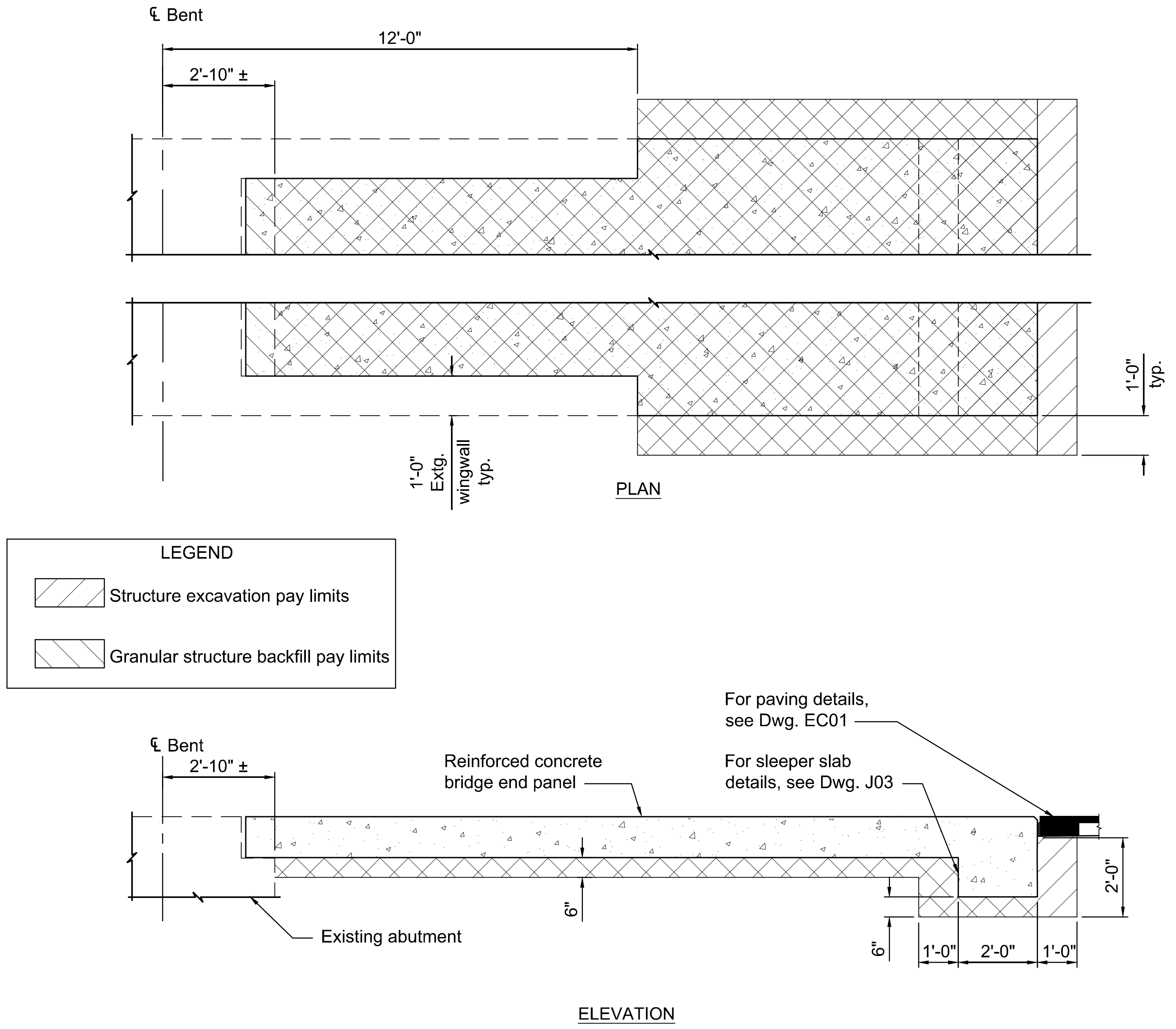
CITY PROJECT #: 19PW10
PUBLIC WORKS DIRECTOR
NIKKI MESSENGER, P.E.

DOWL
4275 Commercial St. SE, Ste. 100
Salem, Oregon 97302
503-589-4100
WWW.DOWL.COM

DESIGNER: Pavan Patel, E.I.T.
REVIEWER: Jared Trowbridge, P.E.
CHECKER: Michael G. McNulty, P.E.
DRAFTER: DOWL CAD

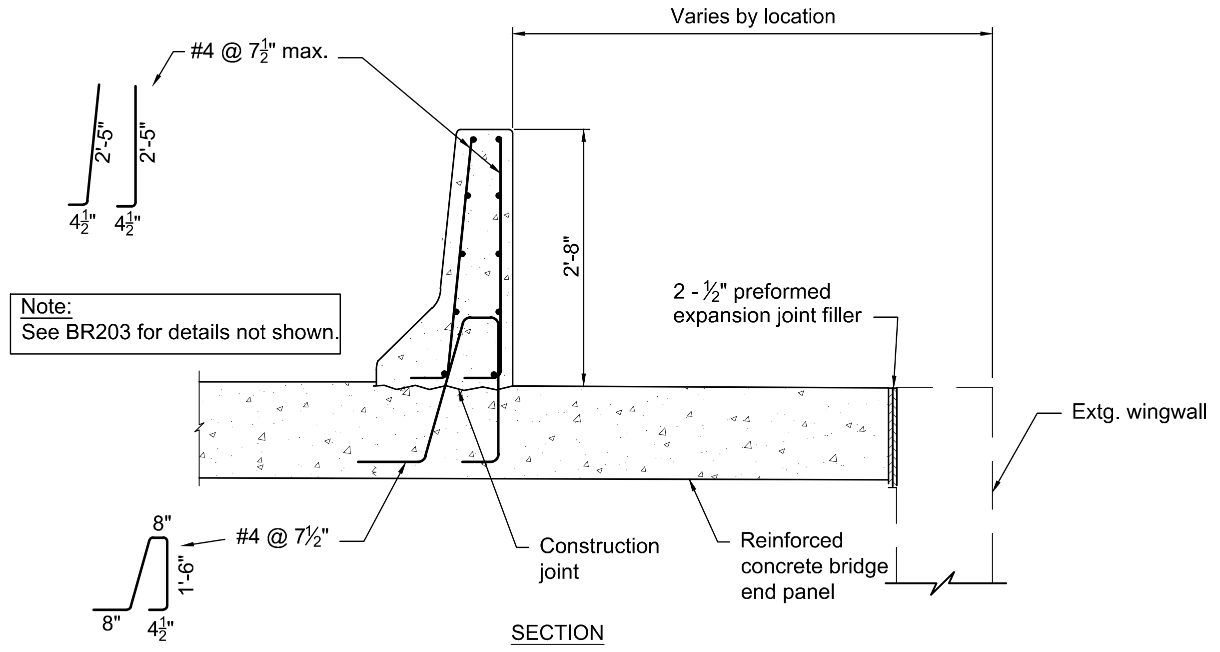
DATE	STRUCTURE NO.	CALC. BOOK	SHEET	DRAWING NO.
February 2021	26T09	N/A	4 OF 5	J04

C:\DOWL_PW\D0389593\0051-0012_09_ DETAILS - 2.DWG 2021/02/17 09:10



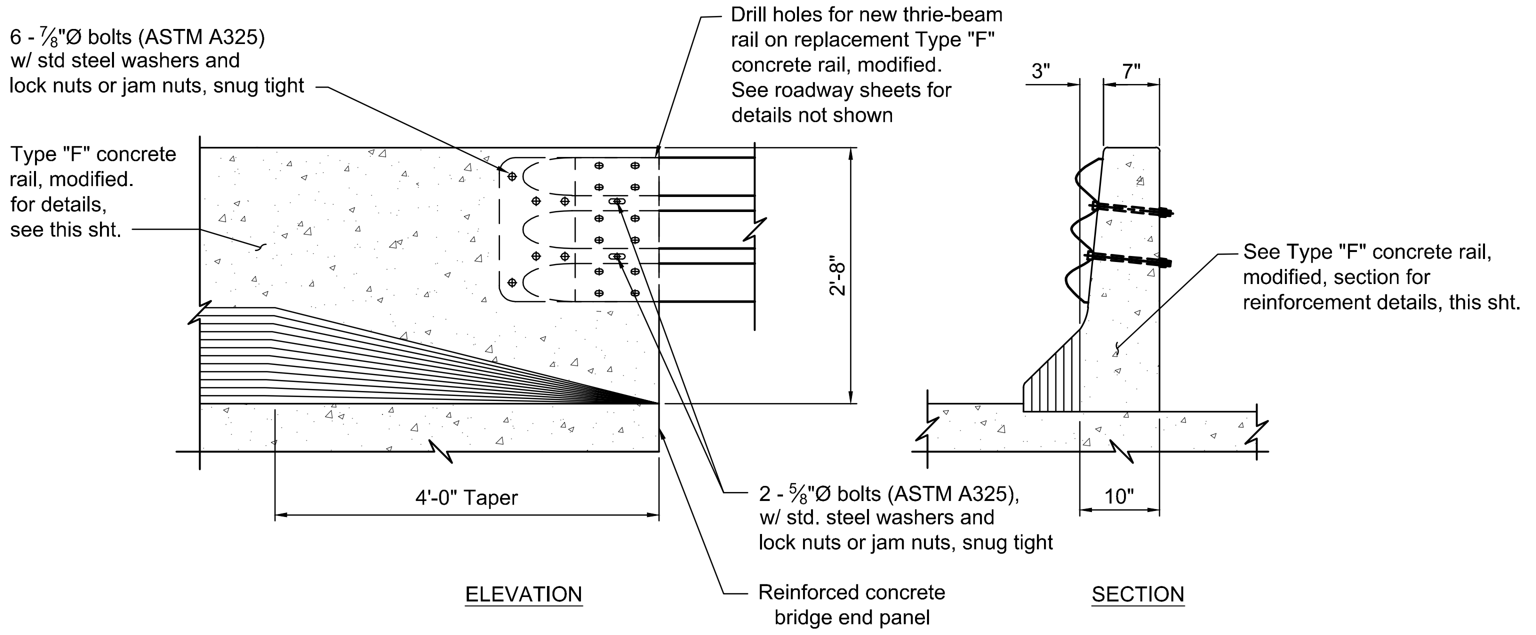
STRUCTURAL EXCAVATION AND BACKFILL PAY LIMITS DIAGRAM

SCALE: 1/4" = 10'



TYPE "F" CONCRETE RAIL, MODIFIED (BENT 1 WEST)

SCALE: 1/2" = 10'



TYPE "F" CONCRETE RAIL TO THRIE-BEAM GUARDRAIL END DETAIL (BENT 1 WEST)

SCALE: 1/2" = 10'

85555
Michael McNulty Date: 2021.02.24 13:54:17-08'00'
OREGON
DECEMBER 21, 2011
MICHAEL G. McNULTY
EXPIRES: 12/31/2022

△	DATE	REVISION	BY

ACCOMPANIED BY DRAWINGS:
See Sheet A01

SCALE WARNING
If scale bar does not measure one inch, then drawing is not to scale

STEWART PARKWAY BRIDGE END PANEL REPAIR
OVER THE SOUTH UMPQUA RIVER
BRIDGE NO. 26T09 - CITY OF ROSEBURG
DOUGLAS COUNTY

RAIL DETAILS - 2 AND PAY LIMITS DIAGRAM

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 19PW10
PUBLIC WORKS DIRECTOR
NIKKI MESSENGER, P.E.

DOWL
4275 Commercial St. SE, Ste. 100
Salem, Oregon 97302
503-589-4100
WWW.DOWL.COM

DESIGNER: Pavan Patel, E.I.T.
REVIEWER: Jared Trowbridge, P.E.
CHECKER: Michael G. McNulty, P.E.
DRAFTER: DOWL CAD

DATE	STRUCTURE NO.	CALC. BOOK	SHEET	DRAWING NO.
February 2021	26T09	N/A	5 OF 5	J05

C:\DOWL_PW\D0389593\0051-0012_10_DETAILS - 3.DWG 2021/02/17 09:11