



Wisconsin Department of Transportation

February 3, 2016

Division of Transportation Systems Development

Bureau of Project Development
 4802 Sheboygan Avenue, Rm 601
 P O Box 7916
 Madison, WI 53707-7916

Telephone: (608) 266-1631
 Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #18: 4140-20-73, WISC 2016 022
Green Bay Road, City of Sturgeon Bay
Michigan Street – Egg Harbor Road
STH 42/57
Door County

Letting of February 9, 2016

This is Addendum No. 02, which provides for the following:

Special Provisions

Revised Special Provisions	
Article No.	Description
3	Prosecution and Progress
4	Traffic

Schedule of Items

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.0100	Removing Pavement	SY	33,875	100	33,975
204.0120	Removing Asphaltic Surface Milling	SY	6,700	17,805	24,505
204.0150	Removing Curb and Gutter	LF	1,290	54	1,344
204.0165	Removing Guardrail	LF	129	1,778	1,907
305.0110	Base Aggregate Dense ¾-Inch	Ton	1,694	560	2,254
305.0120	Base Aggregate Dense 1 ¼-Inch	Ton	34,049	29	34,078
440.4410	Incentive IRI Ride	Dol	4,130.3	4,103.7	8,234
455.0105	Asphaltic Material PG58-28	Ton	189	178	367
455.0605	Tack Coat	Gal	301	1536	1,837
460.1101	HMA Pavement Type E-1	Ton	1,807	126	1,933
460.2000	Incentive Density HMA Pavement	Dol	2,120	2,060	4,180
601.0409	Concrete Curb and Gutter 30-Inch Type A	LF	5,270	54	5,324
611.8115	Adjusting Inlet Covers	EA	2	3	5
620.0300	Concrete Median Sloped Nose	SF	1,694	70	1,764
628.1504	Silt Fence	LF	11,350	2,540	13,890
628.7015	Inlet Protection Type C	EA	62	15	77
646.0106	Pavement Marking Epoxy 4-Inch	LF	46,970	25,684	72,654

646.0126	Pavement Marking Epoxy 8-Inch	LF	2,035	907	2,942
647.0456	Pavement Marking Curb Epoxy	LF	75	70	145
647.0606	Pavement Marking Island Nose Epoxy	EA	9	7	16
647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	535	150	685
690.0150	Sawing Asphalt	LF	466	181	647
690.0250	Sawing Concrete	LF	92	521	613

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.0105	Removing Pavement Butt Joints	SY	---	15	15
204.0115	Removing Asphaltic Surface Butt Joints	SY	---	42	42
211.0100	Prepare Foundation for Asphaltic Paving 4140-20-73	LS	---	1	1
305.0500	Shaping Shoulders	Sta	---	40	40
416.0610	Drilled Tie Bars	EA	---	16	16
460.1103	HMA Pavement Type E-3	Ton	---	3,105	3,105
614.0010	Barrier System Grading Shaping Finishing	EA	---	4	4
614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	---	245	245
614.2300	MGS Guardrail 3	LF	---	1537.5	1537.5
614.2500	MGS Thrie Beam Transition	LF	---	156	156
614.2610	MGS Guardrail Terminal EAT	EA	---	4	4
628.7570	Rock Bags	EA	---	48	48
650.8000	Construction Staking Resurfacing Reference	LF	---	5469	5469

Plan Sheets

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
145, 152-155, 159	Miscellaneous Quantity Sheets – Note added to specify quantities found elsewhere.

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
8A-B	Existing Typical Sections – Additional work areas
18A-C	Proposed Typical Sections – Additional work areas
25A-B	Construction Details – Butt Joints and Adjusting Inlet Details
34A-K	Plan Details – Additional work areas
114A-K	Pavement Marking Details – Additional Work areas
174A-E	Miscellaneous Quantity Sheets – Additional work areas
249A-N	Standard Detail Drawings for Guardrail Items
499A-R	Cross Sections – Beam guard replacement in additional work areas

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

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PROJECT ID 4140-20-73
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Special Provisions

3. Prosecution and Progress.

*Add the following under the section titled **Stage 2**:*

STH 42/57 Gap Paving Sections

As part of this contract, maintenance work will be completed on sections of STH 42/57 between County U/Clay Banks Road and the south abutment of the Bayview Bridge, and between the north abutment of the Bayview Bridge and the south reconstruction limits of the project (station XXXX). Complete all work in these segments as called out in the plans and as directed by the engineer. All work shall be completed while STH 42/57 is closed to through traffic and detoured. Coordinate this work with the work on the Bayview Bridge project (Project ID 4430-16-60) as referenced in the "Other Contracts" article of the special provisions.

4. Traffic.

*Add the following under the section titled **Stage 2**:*

STH 42/57 Gap Paving Sections

These sections of STH 42/57 are under a closed and detoured roadway condition during this stage. Maintain access across the highway at Utah Street. Maintain access to the Bayview Bridge for work operations being completed under Project ID 4430-16-60 as referenced in the "Other Contracts" article of the special provisions.

Schedule of Items

Attached, dated February 3, 2016, are the revised Schedule of Items Pages 1 – 20.

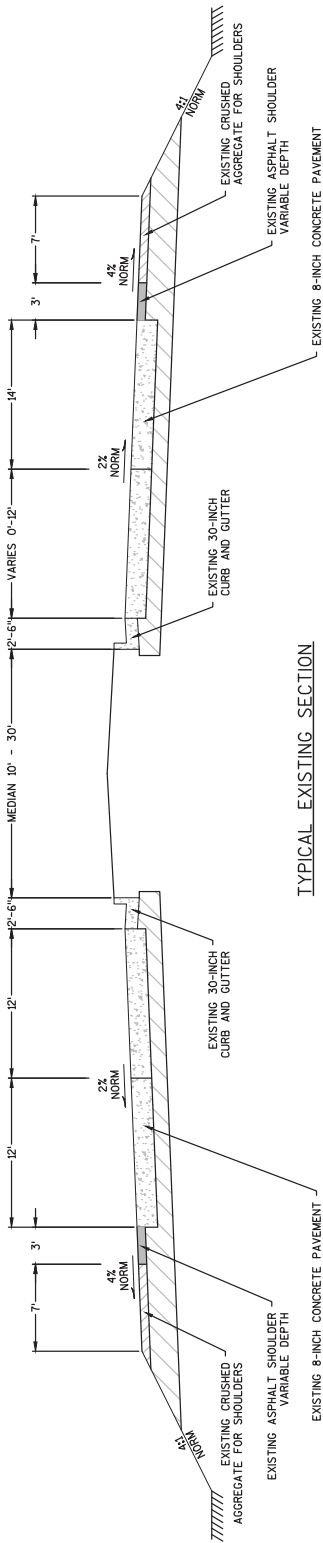
Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 145, 152, 153, 154, 155, 159

Added: 8A-B, 18A-C, 25A-B, 34A-K, 114A-K, 174A-E, 249A-N, and 249A-N

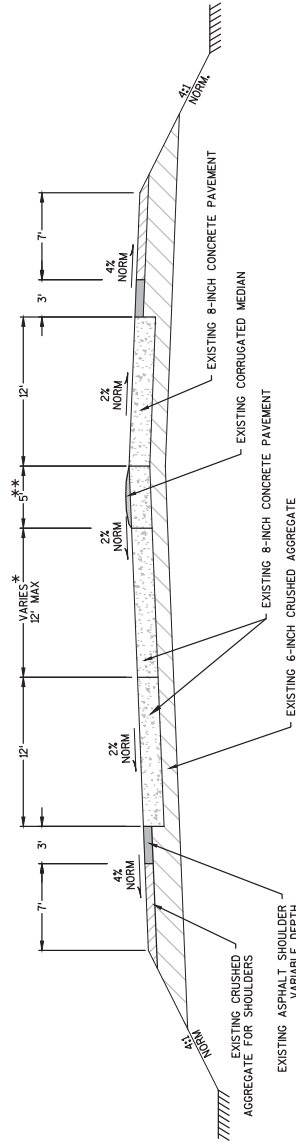
END OF ADDENDUM



TYPICAL EXISTING SECTION

STA 1160+00 TO STA 1165+85

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ID 4140-20-73
Added Sheet 8A
February 3, 2016

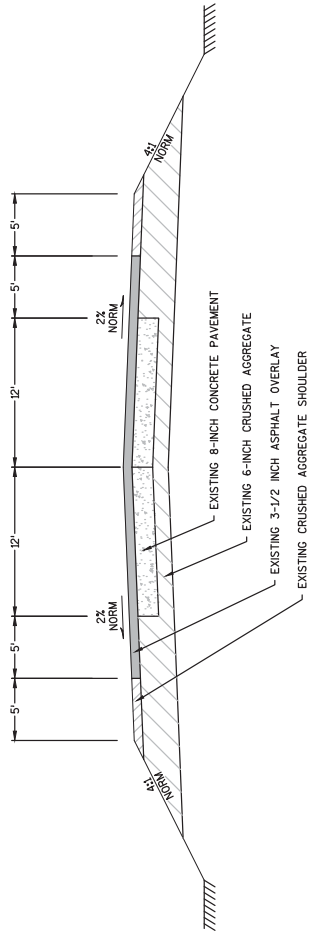


TYPICAL EXISTING SECTION

STA 1177+45 (BRIDGE OVER STURGEON BAY)

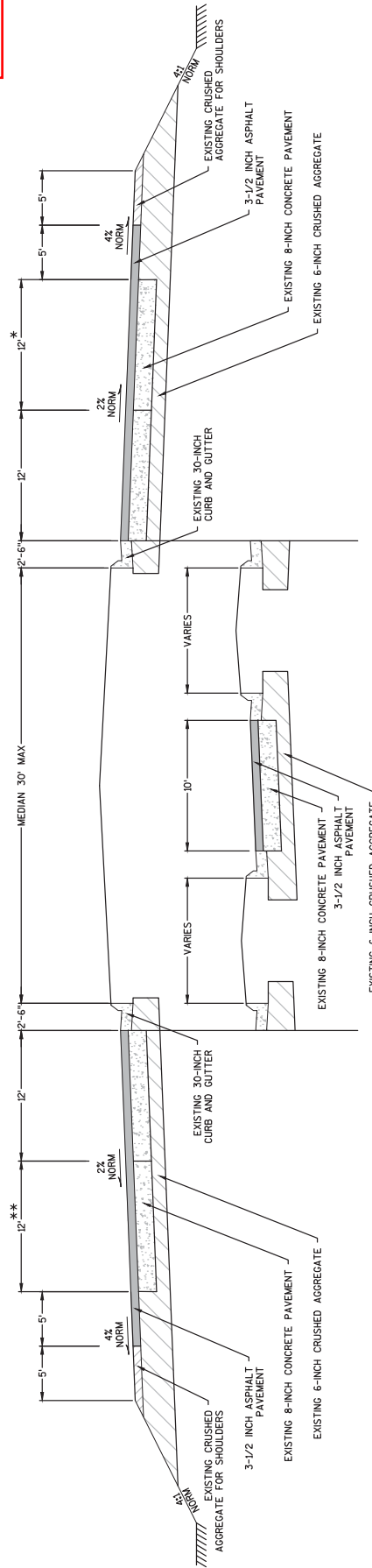
*LANE ENDS AT STA 1169+75
** CORRUGATED MEDIAN ENDS AT STA 1167+70

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TYPICAL EXISTING SECTION

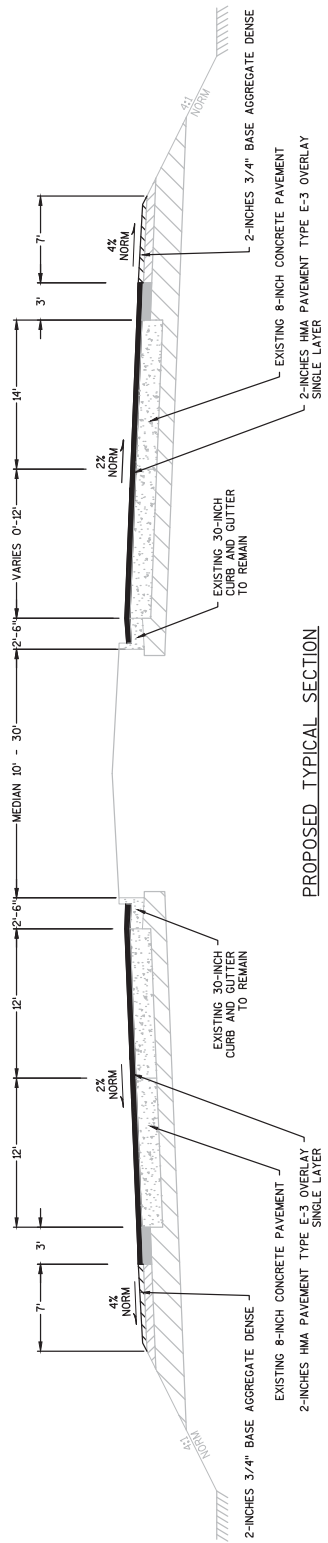
STA 1794+75 (BRIDGE OVER STURGEON BAY) TO STA 1806+15
 STA 1826+25 TO STA 1832+00



TURN LANES TO WB/EB UTAH STREET
 STA 1814+00 TO STA 1815+75
 STA 1816+80 TO STA 1818+50

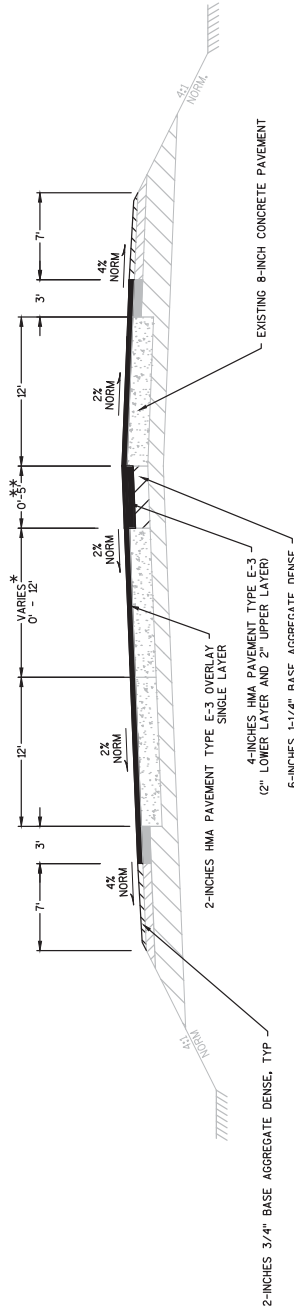
TYPICAL EXISTING SECTION
 STA 1806+15 TO 1826+25

* TURN LANE FOR NB 42/57 TO EB UTAH STREET
 STA 1812+00 TO 1816+25
 ** TURN LANE FOR SB 42/57 TO WB UTAH STREET
 STA 1817+30 TO 1820+50



PROPOSED TYPICAL SECTION
STA 1160+00 TO STA 1165+85

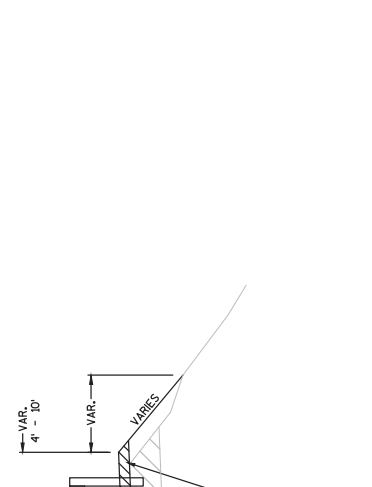
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PROPOSED TYPICAL SECTION
STA 1165+85 TO STA 1170+75

*LANE ENDS AT STA 1169+75
** CORRUGATED MEDIAN ENDS AT STA 1167+70

PROJECT NO: 4140-20-73	COUNTY: DOOR	SHEET 18A	E
HWY: STH 42	PROPOSED TYPICAL SECTIONS		
FILE NAME : N:\VPOS\C3D\41402002\SHEETS\PLAN\020401-TS.DWG	PLOT DATE : 1/28/2016 2:40 PM	PLOT SCALE : 1:10	WSDOT/CADD'S SHEET 42
LAYOUT NAME - 020401-TS - 020301-TS	PLOT BY : ROSEMEYER, ANDREW D		

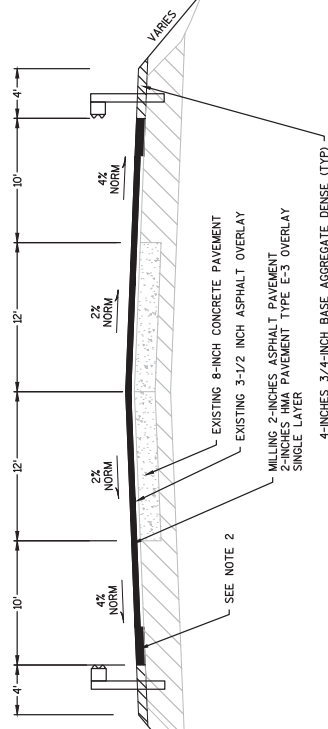


PROPOSED TYPICAL SECTION
STA 1770+75 TO STA 1777+45

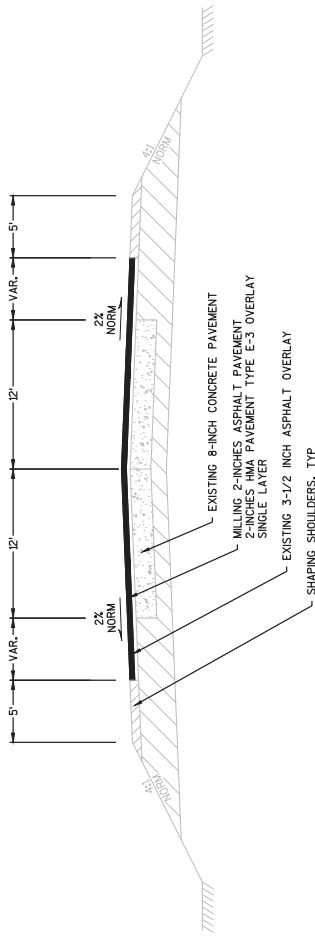
- NOTES:
- MILL THE EXISTING ASPHALT AND AGGREGATE SHOULDER 2-INCHES TO THE PROPOSED SHOULDER EDGE LIMITS AS SHOWN IN THE PLAN DETAILS. PAVE TWO LIFTS OF TWO INCHES E-3 HMA PAVEMENT
 - BETWEEN EDGE OF EXISTING ASPHALT SHOULDER AND PROPOSED EDGE OF PAVED SHOULDER, MILL 4-INCHES EXISTING AGGREGATE AND PLACE FOUR INCHES HMA PAVEMENT IN TWO 2-INCH LIFTS.

* WIDER SHOULDERS REQUIRED AT BEAMGUARD SECTIONS. SEE PLAN DETAILS

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Added Sheet 18B
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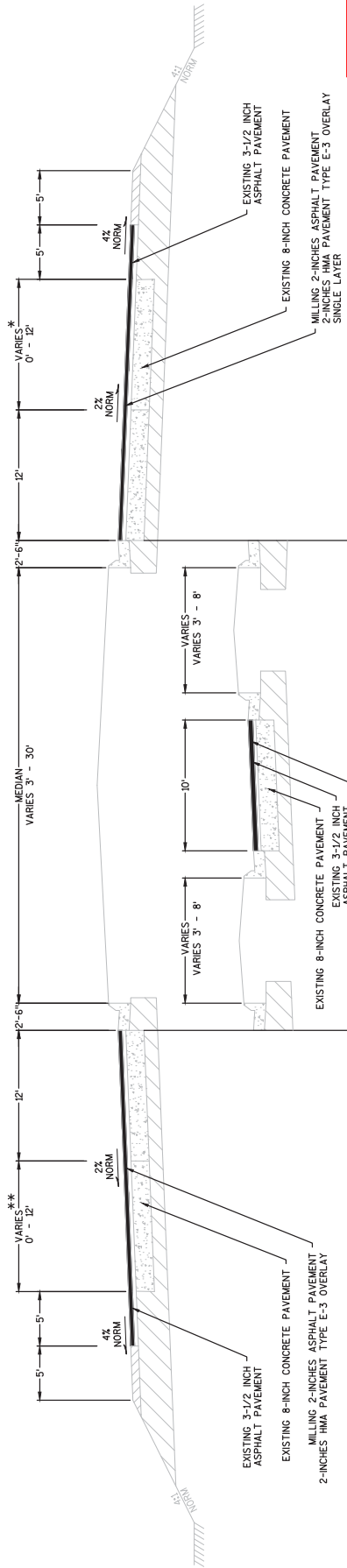


PROPOSED TYPICAL SECTION
STA 1794+75 TO STA 1801+25 LEFT



PROPOSED TYPICAL SECTION

STA 1799+00 RIGHT TO STA 1806+15
 STA 1801+25 LEFT
 STA 1826+25 TO STA 1832+00



**Addendum No. 02
 ID 4140-20-73
 Added Sheet 18C
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PROPOSED TYPICAL SECTION
 STA 1806+15 TO 1826+25

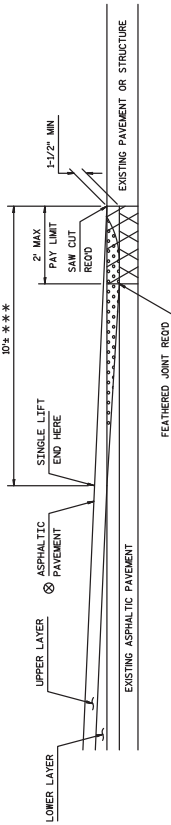
TURN LANES TO WB/EB UTAH STREET
 STA 1844+00 TO STA 1855+75
 STA 1816+80 TO STA 1818+50

TURN LANE FOR WB 42/57 TO EB UTAH STREET
 STA 1824+00 TO 1816+25

TURN LANE FOR SB 42/57 TO WB UTAH STREET
 STA 1817+30 TO 1820+50

PROJECT NO: 4140-20-73	COUNTY: DOOR	PROPOSED TYPICAL SECTIONS	SHEET 18C	E
HWY: STH 42				
FILE NAME : N:\PDS\3D\4140202\SHEETS\PLAN\020401-TS.DWG	LAYOUT NAME - 020401-TS - 020303-TS	DATE : 1/28/2016 2:40 PM	PLOT BY : ROSEMEYER, ANDREW D	PLOT NAME : PLOT SCALE : 1:10

50' **
20' ** **
10' ** ** **



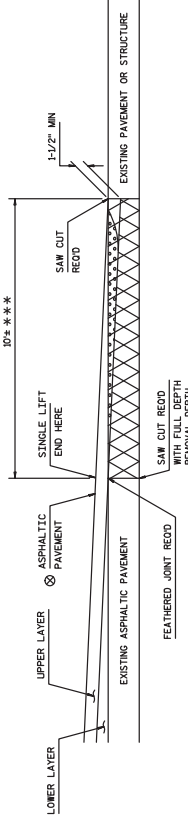
- ⊗ SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS
- ▨ REMOVING ASPHALTIC SURFACE, MILLING
- ▧ REMOVING ASPHALTIC SURFACE, BUTT JOINTS (FULL DEPTH REMOVAL OPTIONAL)
- ▩ ASPHALTIC WEDGING (FULL DEPTH REMOVAL OPTION)

BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENTS

- ** MAINLINE
- ** SIDERoadS
- *** PRIVATE ENTRANCES

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 ID 4140-20-73
 Added Sheet 25A
 February 3, 2016

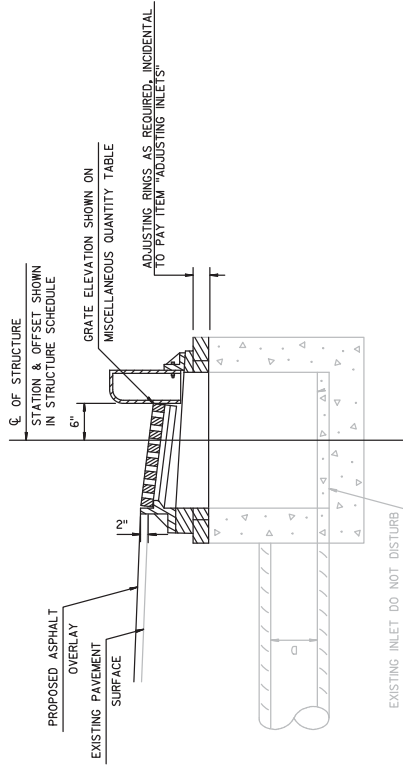
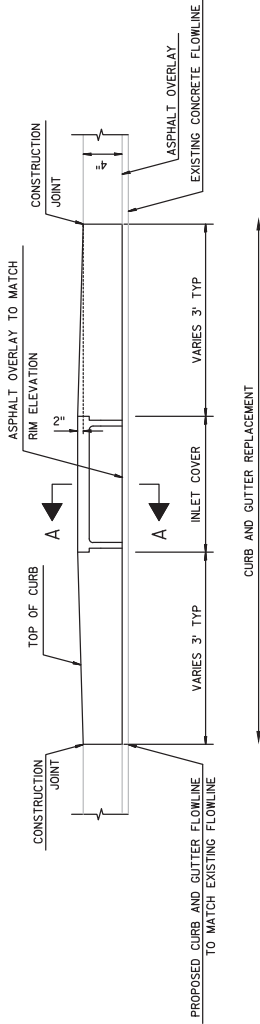
50' **
20' ** **
10' ** ** **



- ⊗ SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS
- ▨ REMOVING ASPHALTIC SURFACE, BUTT JOINTS (FULL DEPTH REMOVAL OPTIONAL)
- ▧ ASPHALTIC WEDGING (FULL DEPTH REMOVAL OPTION)
- ▩ REMOVING ASPHALTIC SURFACE, BUTT JOINTS (MILLING OPTION)

BUTT JOINT DETAIL FOR NON-MILLED ASPHALTIC PAVEMENTS

- ** MAINLINE
- ** SIDERoadS
- *** PRIVATE ENTRANCES



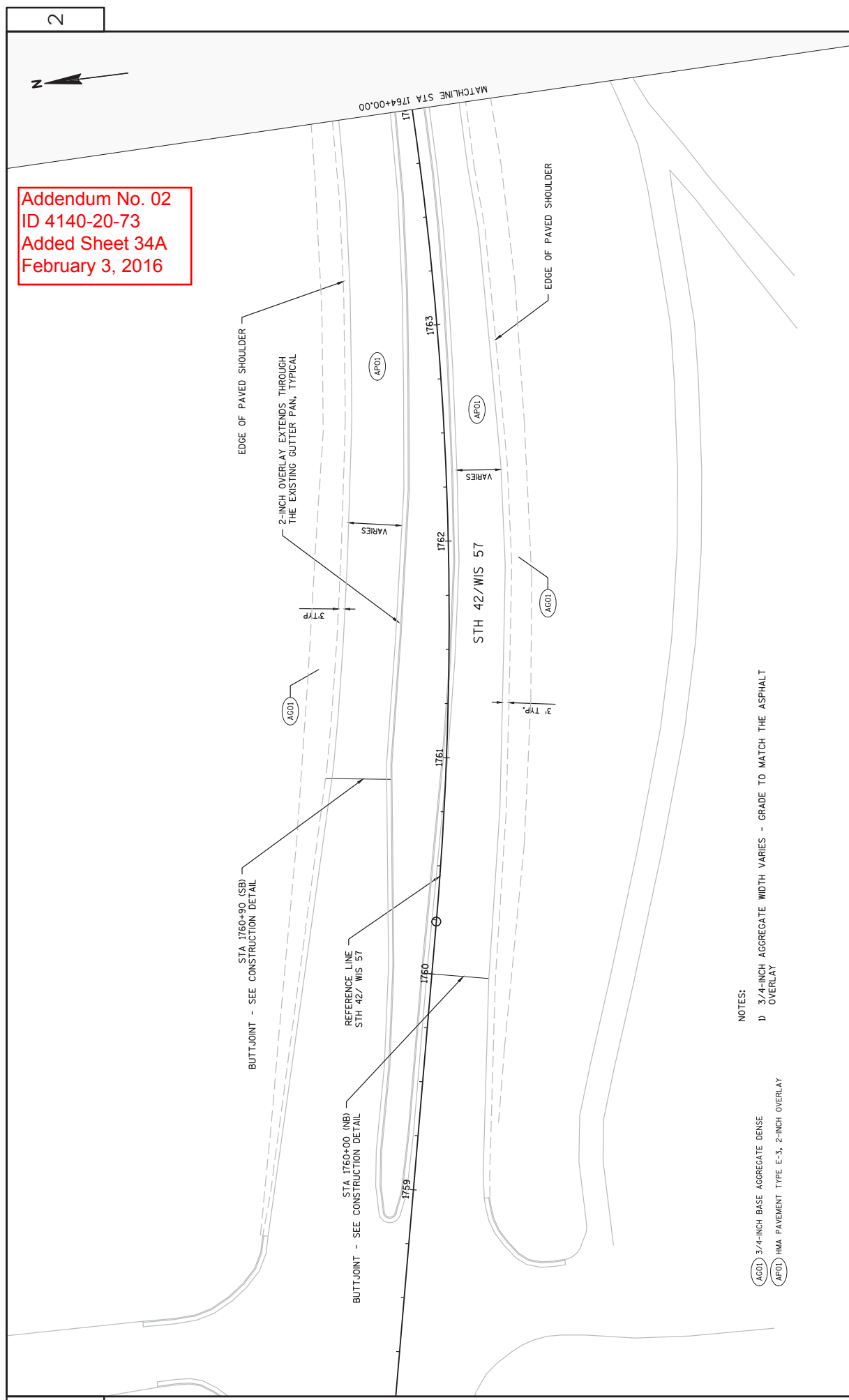
SECTION A-A

ADJUSTING INLETS FOR ASPHALT OVERLAY

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 ID 4140-20-73
 Added Sheet 25B
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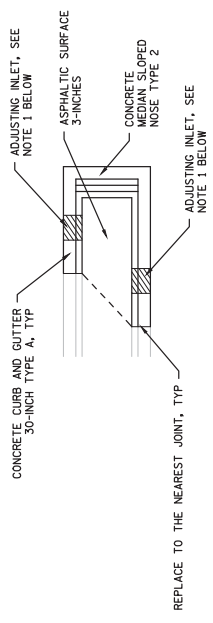
PROJECT NO: 4140-20-73	COUNTY: DOOR	CONSTRUCTION DETAILS	SHEET 25B	E
FILE NAME : N:\PDS\330\4140202\SHEETS\PLAN\021001_CD.DWG LAYOUT NAME - 021001_CD - 021002_CD	HWY: STH 42	PLOT DATE : 1/28/2016 3:07 PM	PLOT BY : ROSEMEYER, ANDREW D	PLOT NAME :
				PLOT SCALE : 1:10

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 ID 4140-20-73
 Added Sheet 34A
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- NOTES:
- (AC01) 3/4-INCH BASE AGGREGATE DENSE
 - (AP01) HMA PAVEMENT TYPE E-3, 2-INCH OVERLAY
 - 1) 3/4-INCH AGGREGATE WIDTH VARIES - GRADE TO MATCH THE ASPHALT OVERLAY

PROJECT NO: 4140-20-73	HWY: STH 42	COUNTY: DOOR	PLAN DETAILS	SHEET 34A	E
FILE NAME : N:\VPOS\C3D\41402020\SHEETS\PLAN\021201_PD.DWG					
LAYOUT NAME - 021201_PD - 021201_PD					
PLOT DATE : 1/28/2016 1:29 PM					
PLOT BY : ROSEMEYER, ANDREW D					
PLOT NAME : 1 IN:40 FT					
PLOT SCALE : 1 IN:40 FT					
WSDOT/CADD SHEET 42					

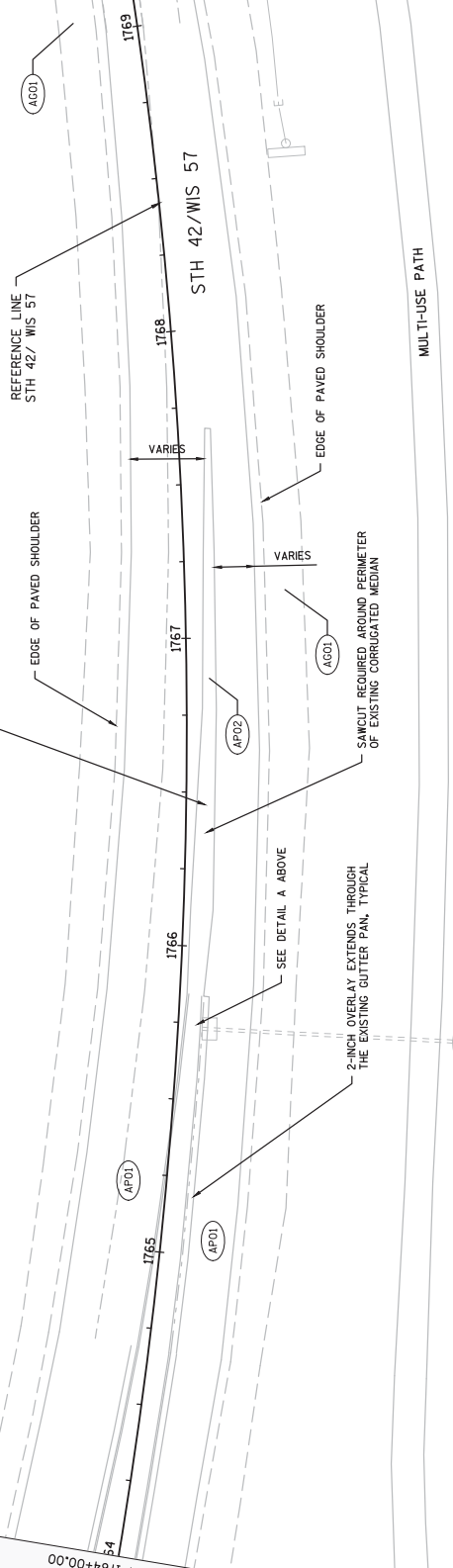


DETAIL A: SLOPED MEDIAN NOSE & INLETS

APPROX. STA. 1765+84 TO 1767+68
REMOVE EXISTING CORRUGATED MEDIAN
PLACE 6-INCHES 1-1/4" AGGREGATE
PAVE 4-INCHES HMA PAVEMENT E-3

MATCHLINE STA 1769+50.00

MATCHLINE STA 1764+00.00



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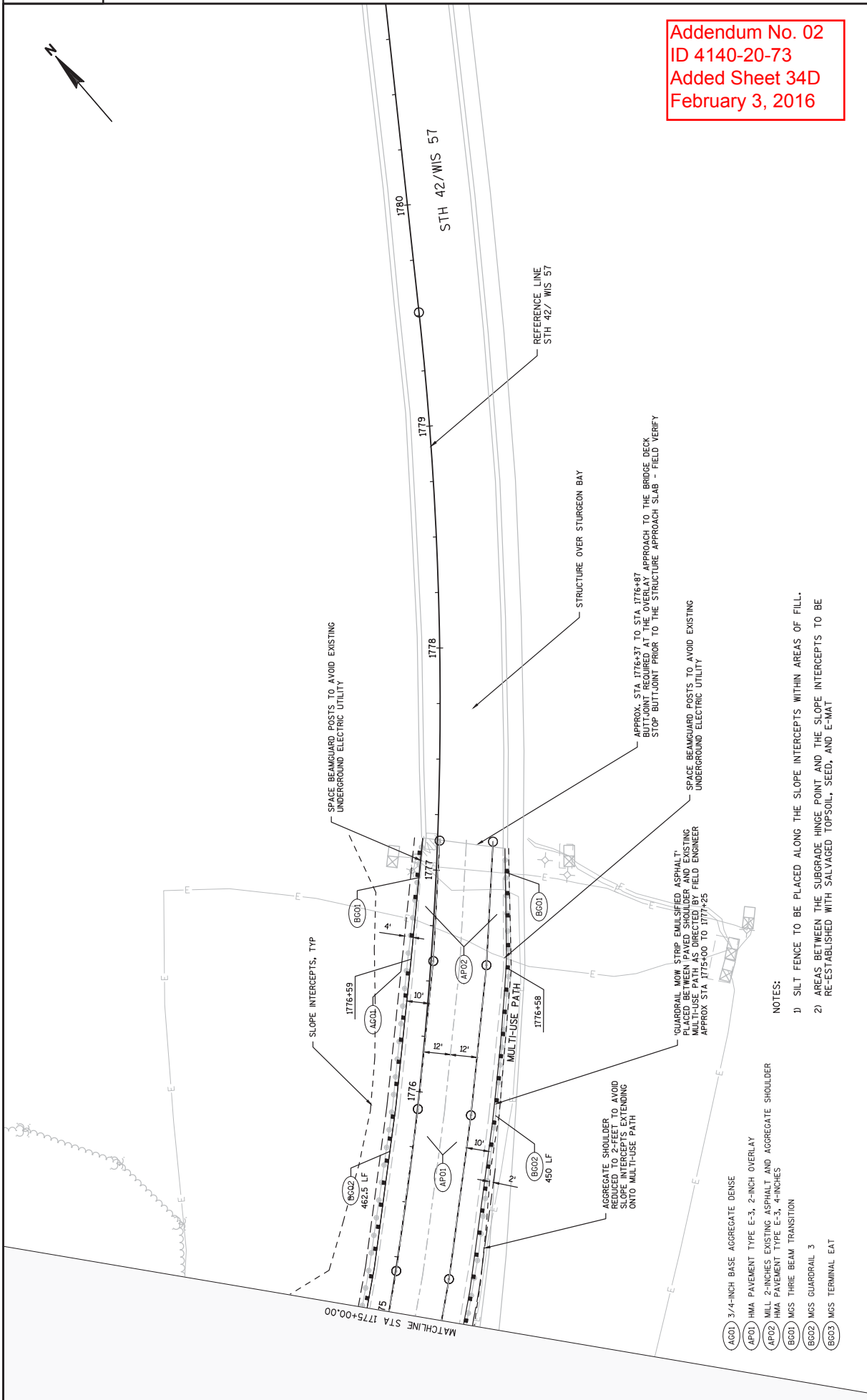
NOTES:

- 1) ADJUST INLET CASTING 2-INCHES ABOVE THE CURB AND GUTTER. ENSURE PROPER DRAINAGE TO INLETS FOLLOWING ASPHALT OVERLAY.
- 2) VERIFY EXISTING CONCRETE CORRUGATED MEDIAN DEPTH PRIOR TO PLACING 1-1/4" BASE AGGREGATE. AGGREGATE DEPTH MAY VARY, 5-INCHES ASPHALT PAVEMENT WITHIN DRIVEWAY.
- 3) 3/4-INCH AGGREGATE WIDTH VARIES - GRADE TO MATCH THE ASPHALT OVERLAY

- (AG01) 3/4-INCH BASE AGGREGATE DENISE
- (AP01) HMA PAVEMENT TYPE E-3, 2-INCH OVERLAY



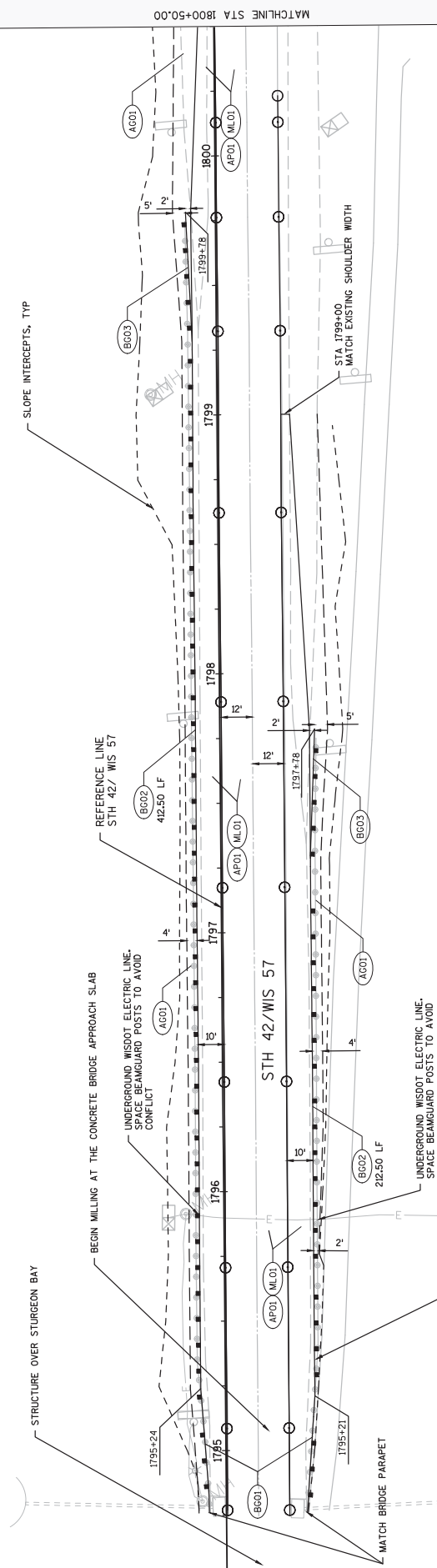
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 Added Sheet 34D
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NOTES:

- 1) SILT FENCE TO BE PLACED ALONG THE SLOPE INTERCEPTS WITHIN AREAS OF FILL.
- 2) AREAS BETWEEN THE SUBGRADE HINGE POINT AND THE SLOPE INTERCEPTS TO BE RE-ESTABLISHED WITH SALVAGED TOPSOIL, SEED, AND E-MAT

- (AC01) 3/4-INCH BASE AGGREGATE DENSE
- (AP01) HMA PAVEMENT TYPE E-3, 2-INCH OVERLAY
- (AP02) MILL 2-INCHES EXISTING ASPHALT AND AGGREGATE SHOULDER
- (AP03) HMA PAVEMENT TYPE E-3, 4-INCHES
- (BC01) MGS THREE BEAM TRANSITION
- (BC02) MGS GUARDRAIL 3
- (BC03) MGS TERMINAL EAT



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- (AG01) 3/4-INCH BASE AGGREGATE DENSE
- (AP01) HMA PAVEMENT TYPE E-3, 2-INCH OVERLAY
- (BC00) WGS THREE BEAM TRANSITION
- (BC02) WGS GUARDRAIL 3
- (BC03) WGS TERMINAL EAT
- (ML01) ASPHALT PAVEMENT MILLING 2-INCHES

NOTES:

- 1) 'SHAPING SHOULDERS' FROM STA 1799+00 TO STA 1832+23 RIGHT AS DIRECTED BY THE FIELD ENGINEER
- 2) SILT FENCE TO BE PLACED ALONG THE SLOPE INTERCEPTS WITHIN AREAS OF FILL.
- 3) AREAS BETWEEN THE SUBGRADE HINGE POINT AND THE SLOPE INTERCEPTS TO BE RE-ESTABLISHED WITH SALVAGED TOPSOIL, SEED, AND E-MAT

* GUARDRAIL MOW STRIP EMULSIFIED ASPHALT PLACED BETWEEN PAVED SHOULDER AND EXISTING MULTI-USE PATH AS DIRECTED BY FIELD ENGINEER APPROX STA 1794+75 TO 1796+00

PROJECT NO: 4140-20-73

HWY: STH 42

COUNTY: DOOR

PLAN DETAILS

SHEET 34E

E

FILE NAME : N:\VPOS\C3D\41402020\SHEETS\PLAN\021201_PD.DWG
 LAYOUT NAME - 021201_PD - 021205_PD

PLOT DATE : 1/28/2016 1:29 PM
 PLOT BY : ROSEMEYER, ANDREW D PLOT NAME :

PLOT SCALE : 1 IN=40 FT

WISDOT/CADD SHEET 42



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 ID 4140-20-73
 Added Sheet 34G
 February 3, 2016

NOTES:
 1) 'SHAPING SHOULDERS' FROM STA 1799+00 TO STA 1832+23, RIGHT AS DIRECTED BY THE FIELD ENGINEER
 2) 'SHAPING SHOULDERS' FROM STA 1801+25 TO STA 1832+23, LEFT AS DIRECTED BY THE FIELD ENGINEER
 3) MILLING AND OVERLAY LIMITS EXTEND THROUGH THE EXISTING SHOULDERS

(AP01) HMA PAVEMENT TYPE E-3, 2-INCH OVERLAY
 (ML01) ASPHALT PAVEMENT MILLING 2-INCHES



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 Added Sheet 34H
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(AP01) HMA PAVEMENT TYPE E-3, 2-INCH OVERLAY
 (MLO1) ASPHALT PAVEMENT MILLING 2-INCHES

NOTES:
 1) 'SHAPING SHOULDERS' FROM STA 1799+00 TO STA 1832+25, RIGHT AS DIRECTED BY THE FIELD ENGINEER
 2) 'SHAPING SHOULDERS' FROM STA 1804+25 TO STA 1832+23, LEFT AS DIRECTED BY THE FIELD ENGINEER
 3) MILLING AND OVERLAY LIMITS EXTEND THROUGH THE EXISTING SHOULDERS



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 ID 4140-20-73
 Added Sheet 34I
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- NOTES:
- 1) 'SHAPING SHOULDERS' FROM STA 1799+00 TO STA 1832+23, RIGHT AS DIRECTED BY THE FIELD ENGINEER
 - 2) 'SHAPING SHOULDERS' FROM STA 1801+95 TO STA 1832+23, LEFT AS DIRECTED BY THE FIELD ENGINEER
 - 3) MILLING AND OVERLAY LIMITS EXTEND THROUGH THE EXISTING SHOULDERS

- (AFOI) HMA PAVEMENT TYPE E-3, 2-INCH OVERLAY
- (MLOI) ASPHALT PAVEMENT MILLING 2-INCHES



PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 PLAN DETAILS
 SHEET 34J
 E

FILE NAME : N:\PDS\C3D\41402002\SHEETS\PLAN\021201_PD.DWG
 LAYOUT NAME - 021201_PD - 021210_PD
 PLOT DATE : 1/28/2016 1:30 PM
 PLOT BY : ROSEMEYER, ANDREW D PLOT NAME :

NOTES:
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 2) 'SHAPING SHOULDERS' FROM STA 1804+25 TO STA 1832+23, LEFT AS DIRECTED BY THE FIELD ENGINEER
 3) MILLING AND OVERLAY LIMITS EXTEND THROUGH THE EXISTING SHOULDERS

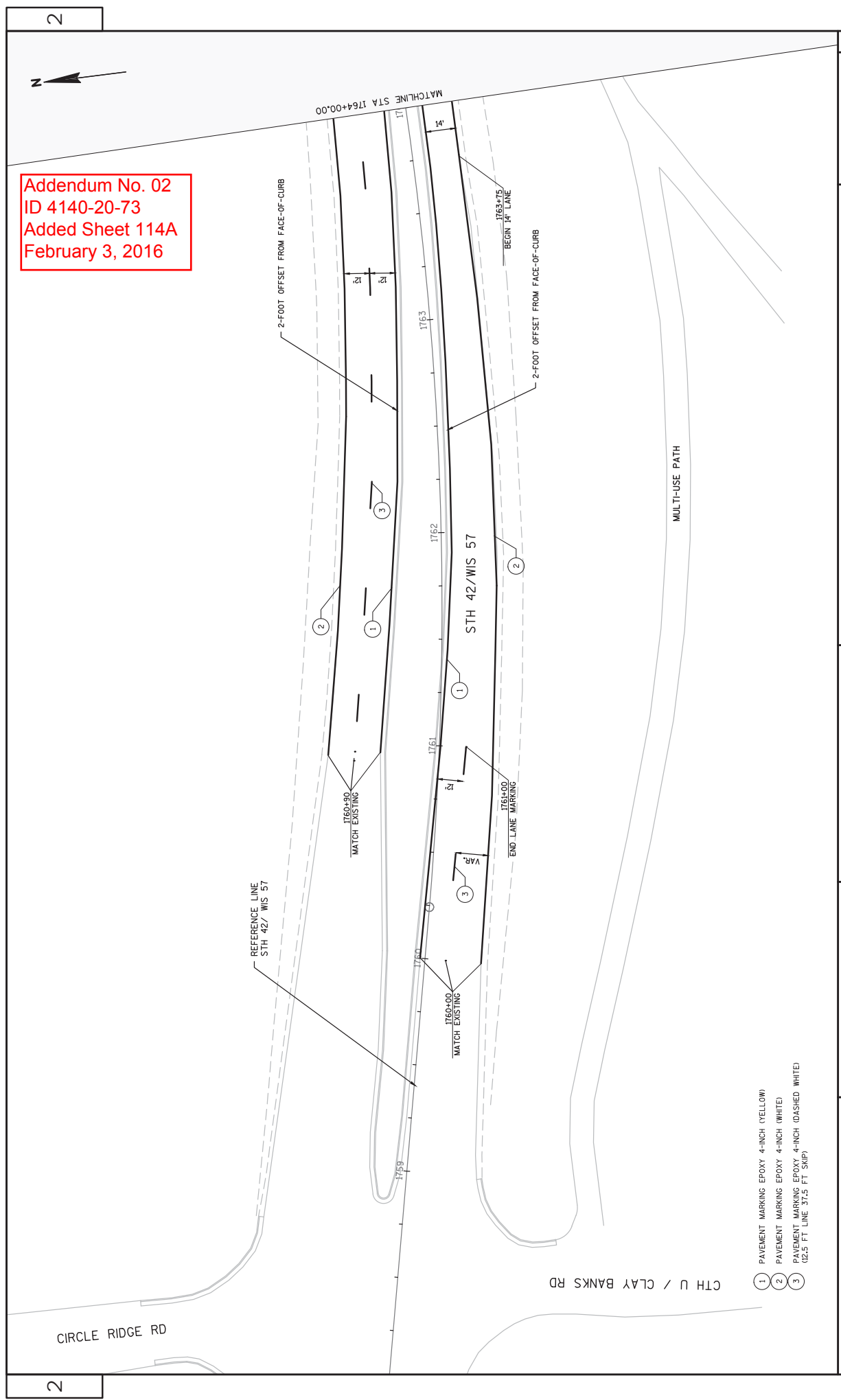
(AFOD) HMA PAVEMENT TYPE E-3, 2-INCH OVERLAY
 (MLOI) ASPHALT PAVEMENT MILLING 2-INCHES



NOTES:

- 1) 'SHAPING SHOULDERS' FROM STA 1798+00 TO STA 1832+23, RIGHT AS DIRECTED BY THE FIELD ENGINEER
- 2) 'SHAPING SHOULDERS' FROM STA 1801+25 TO STA 1832+23, LEFT AS DIRECTED BY THE FIELD ENGINEER
- 3) MILLING AND OVERLAY LIMITS EXTEND THROUGH THE EXISTING SHOULDERS

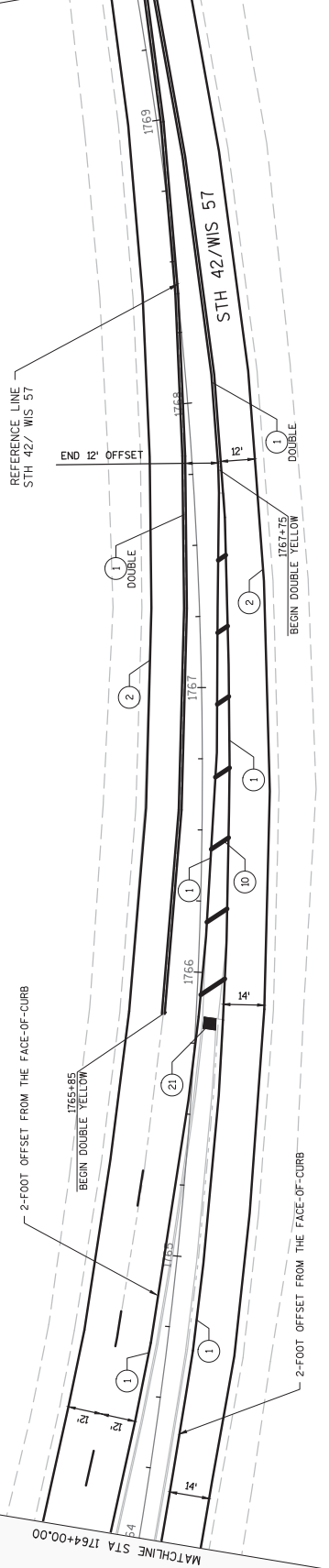
Addendum No. 02
 ID 4140-20-73
 Added Sheet 114A
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- 1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- 2 PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- 3 PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)
12.5 FT. LINE 3/15 FT. SKIP



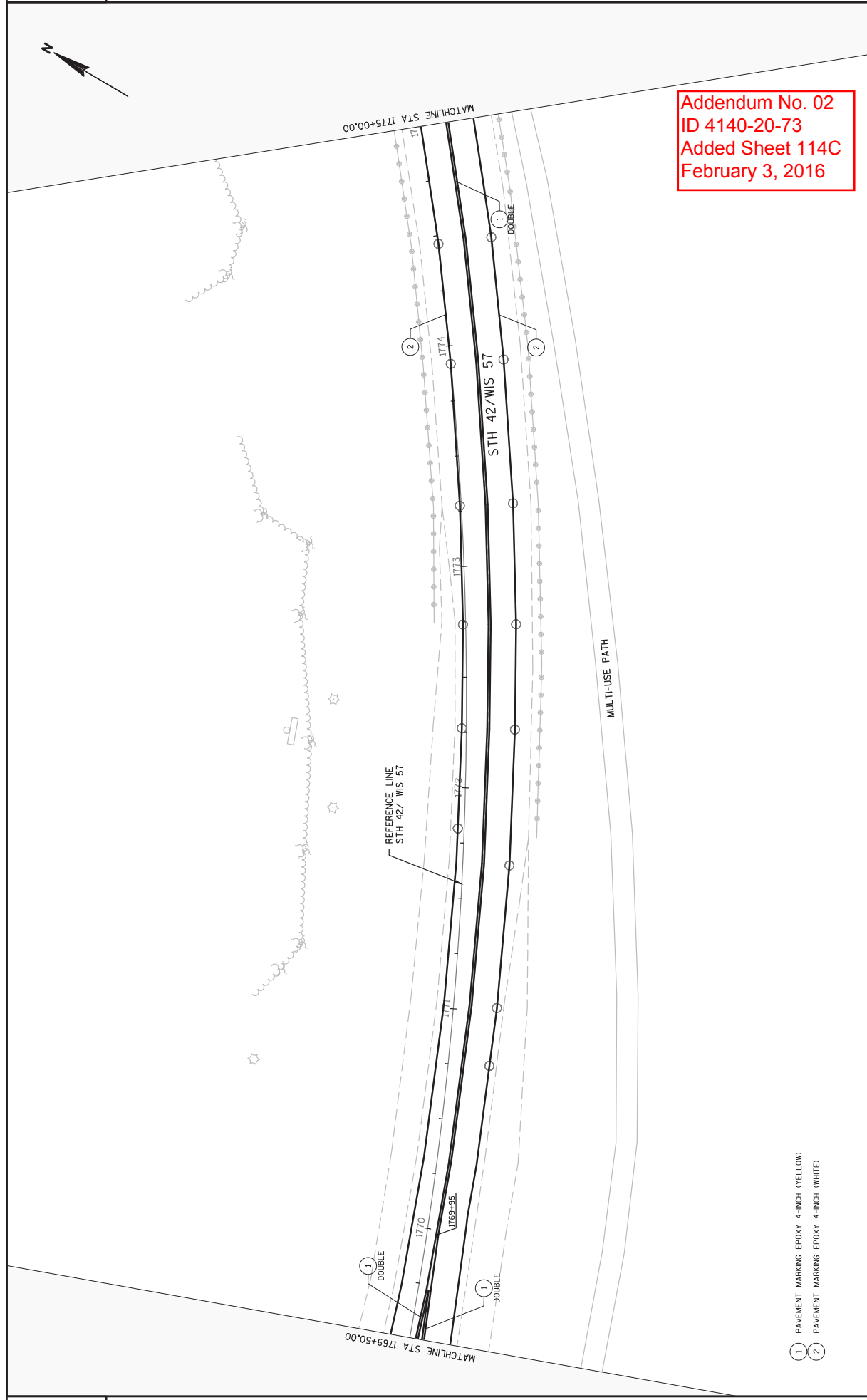
MATCHLINE STA 1769+50.00



MULTI-USE PATH

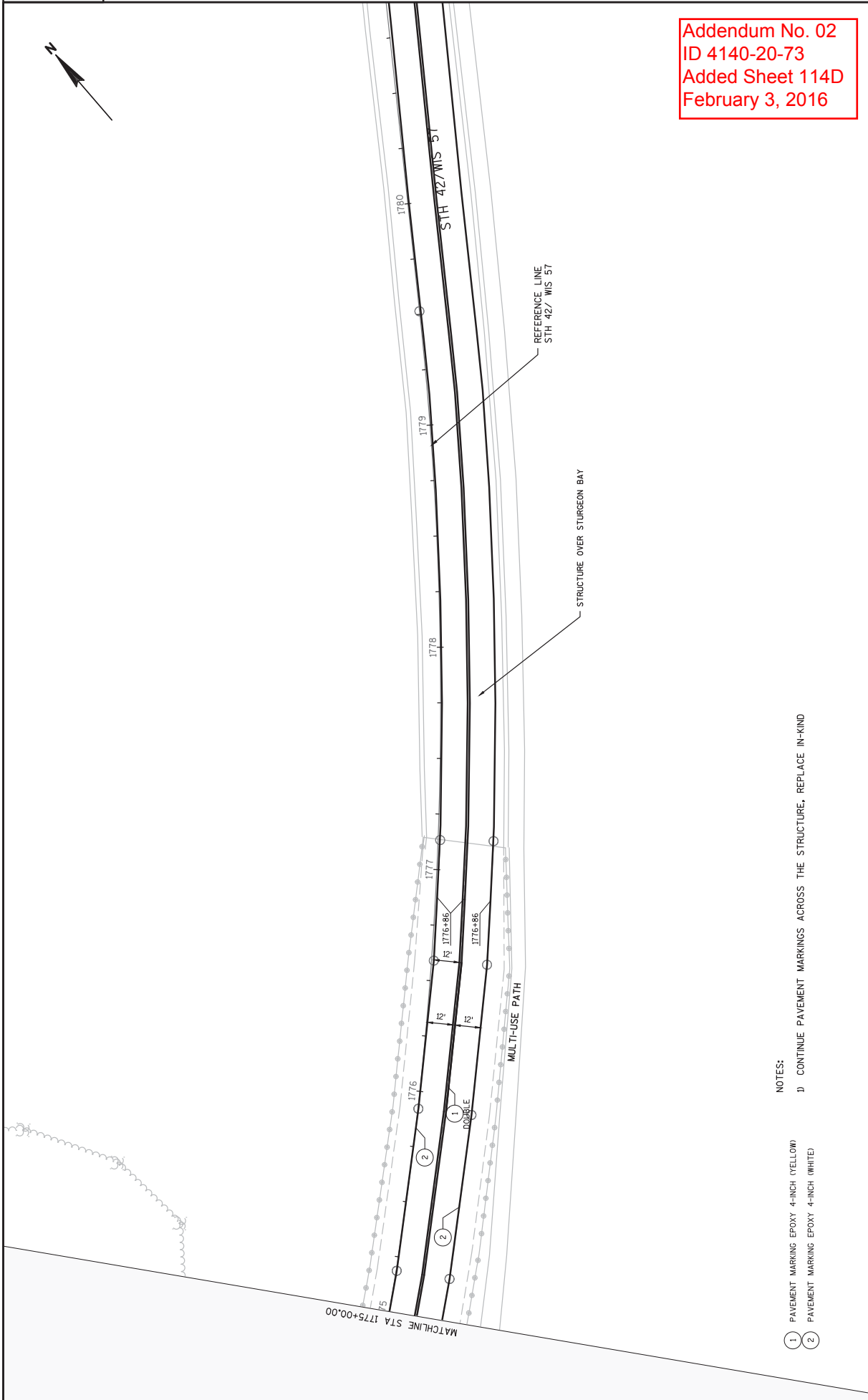
Addendum No. 02
 ID 4140-20-73
 Added Sheet 114B
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- 1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- 2 PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- 10 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- 21 PAVEMENT MARKING ISLAND NOSE EPOXY



Addendum No. 02
 ID 4140-20-73
 Added Sheet 114C
 February 3, 2016

- ① PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- ② PAVEMENT MARKING EPOXY 4-INCH (WHITE)



Addendum No. 02
 ID 4140-20-73
 Added Sheet 114D
 February 3, 2016

- NOTES:
- 1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
 - 2 PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- 1) CONTINUE PAVEMENT MARKINGS ACROSS THE STRUCTURE, REPLACE IN-KIND

PROJECT NO: 4140-20-73	HWY: STH 42	COUNTY: DOOR	PAVEMENT MARKINGS	SHEET 114D	E
FILE NAME : N:\PDS\C3D\4140202\SHEETS\PLAN\024501_P1.DWG					
LAYOUT NAME : 024501_P1					
PLOT DATE : 1/28/2016 1:23 PM					
PLOT BY : ROSEMEYER, ANDREW D PLOT NAME :					
PLOT SCALE : 1 IN=40 FT					
WISDOT/CADD SHEET 42					



REFERENCE LINE
STH 42/WIS 57

MATCHLINE STA 1800+00.00

1794

1795

1796

1797

1798

1799

1800

1801

1802

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STRUCTURE OVER
STURGEON BAY

DOUBLE
①

②

STH 42/WIS 57

MULTI-USE TRAIL

BEGIN MARKINGS
STA 1795+00

CONTINUE PAVEMENT MARKINGS
ACROSS THE STRUCTURE

Addendum No. 02
ID 4140-20-73
Added Sheet 114E
February 3, 2016

- ① PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- ② PAVEMENT MARKING EPOXY 4-INCH (WHITE)

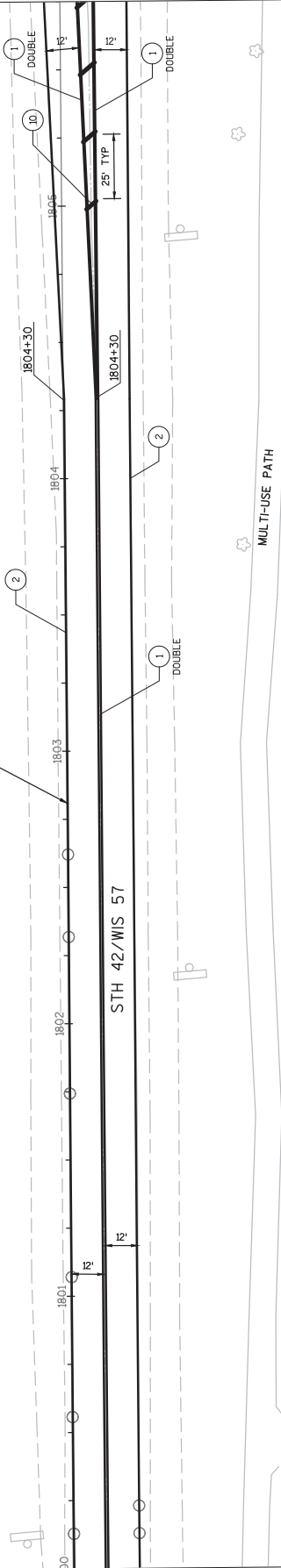
PROJECT NO: 4140-20-73	COUNTY: DOOR	PAVEMENT MARKINGS	SHEET 114E	E
FILE NAME : N:\PDS\330\4140202\3SHEETS\PLAN\024501_P.M.DWG	HWY: STH 42	PLOT BY : ROSEMEYER, ANDREW D	PLOT SCALE : 1 IN:40 FT	WSDOT/CADD SHEET 42
LAYOUT NAME - 024505_P.M		PLOT DATE : 1/28/2016 1:23 PM		



REFERENCE LINE
STH 42/WIS 57

MATCHLINE STA 1800+00.00

MATCHLINE STA 1805+75.00



Addendum No. 02
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 Added Sheet 114F
 February 3, 2016

- ① PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- ② PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- ⑩ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)



MATCHLINE STA 1805+75.00

MATCHLINE STA 1811+50.00

- ① PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- ② PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- ⑩ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- ⑪ PAVEMENT MARKING ISLAND NOSE EPOXY

PROJECT NO: 4140-20-73

HWY: STH 42

COUNTY: DOOR

PAVEMENT MARKINGS

SHEET 114G

E

FILE NAME : N:\VPOS\C3D\41402002\SHEETSP\LAN\024501_PM.DWG
LAYOUT NAME - 024507_PM

PLOT DATE : 1/28/2016 1:23 PM
PLOT BY : ROSEMEYER, ANDREW D

PLOT SCALE : 1 IN:40 FT

WISDOT/CADD SHEET 42



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- NOTES:
 1. VARIOUS LOCATIONS WITHIN THE UTAH STREET INTERSECTION REQUIRE CURB EPOXY. LIMITS TO BE DIRECTED BY THE FIELD ENGINEER.
- 1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
 - 2 PAVEMENT MARKING EPOXY 4-INCH (WHITE)
 - 5 PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
 - 6 PAVEMENT MARKING EPOXY 8-INCH (WHITE)
 - 21 PAVEMENT MARKING ISLAND NOSE EPOXY



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 ID 4140-20-73
 Added Sheet 114J
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- ① PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- ② PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- ⑩ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- ⑳ PAVEMENT MARKING ISLAND NOSE EPOXY

**REMOVALS
REMOVING PAVEMENT**

LOCATION	STATION TO	STATION	REMOVING PAVEMENT SY	REMOVING CONCRETE BASES EA	REMOVING ASPHALTIC SURFACE MILLING SY	REMOVING CURB & GUTTER LF	REMOVING CONCRETE SIDEWALK SY	REMOVING GUARDRAIL LF	REMOVING DELINEATORS AND MARKERS EACH	SAWING ASPHALT LF	SAWING CONCRETE LF	REMOVE TRAFFIC SIGNAL LS
STH 42/57 RL	827+00	840+00	6,434	13	---	---	490	---	5	10	24	1
	840+00	855+00	5,393	---	---	---	130	---	1	---	---	---
	855+00	870+00	4,000	---	---	---	---	---	---	---	---	---
	870+00	885+00	4,000	---	---	---	---	---	---	---	---	---
	885+00	900+00	5,533	---	---	---	---	---	---	---	---	---
MICHIGAN STREET	900+00	915+21	5,769	---	---	---	---	129	---	6	24	---
	113+08	118+45	---	---	---	371	11	---	---	70	20	---
	120+24	124+61	---	---	---	213	---	---	---	54	---	---
	218+00	218+73	---	---	---	213	---	---	---	29	---	---
ALABAMA STREET	220+22	222+05	---	---	---	218	---	---	---	23	---	---
	315+50	320+71	2,746	---	---	---	---	---	1	20	24	---
	402+00	406+82	---	---	---	---	---	---	---	12	---	---
BAYVIEW ROAD	17+75	22+75	---	---	---	275	104	---	---	---	---	---
	1901+50	1921+50	---	---	6,700	---	---	---	---	242	---	---
PROJECT 4140-20-73 TOTALS (0010)			33,875	13	6,700	1,290	735	129	7	466	92	1

* - Additional Quantities Elsewhere

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214.0100

LOCATION	STATION TO	STATION	OBLITERATING OLD ROAD STA
BAYVIEW ROAD	402+20	405+80	3.6
EGG HARBOR CONNECTOR	1902+55	1904+15	1.6
	1921+00	1923+10	2.1
PROJECT 4140-20-73 TOTALS (0010)			7.3

UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

STORM SEWER PIPES AND ENDWALLS

LOCATION STRUCTURE FROM NO.	INLET ELEV. FT	OUTLET ELEV. FT	SLOPE	APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH	CULVERT PIPE CORRUGATED POLYETHYLENE 24-INCH	MARKERS CULVERT END	CONSTRUCTION STAKING STORM SEWER
2.3	624.54	624.39	0.89%	1	17	1	1

PROJECT 4140-20-73 TOTALS (0010)

* - ADDITIONAL QUANTITIES ELSEWHERE

ADJUSTING STRUCTURES

ROADWAY	STRUCTURE	MANHOLE COVERS EACH	ADJUSTING INLET COVERS EACH
MICHIGAN STREET	2.1	--	1
MICHIGAN STREET	2.2	1	--
MICHIGAN STREET	2.3	--	1

PROJECT 4140-20-73 TOTALS (0010)

1

2

* - Additional Quantities Elsewhere

*
611.8110
611.8115

STORM SEWER NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF MANHOLE STRUCTURES AND THE APRON END OF ENDWALLS.
2. STATIONS AND OFFSETS ARE TO THE FLOWLINE OF INLET STRUCTURES.
3. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES.
4. RIM ELEVATIONS ARE GIVEN AT THE FLOW LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES
5. STR DEPTH = RIM ELEV - INLET ELEV - CASTING HEIGHT ADJUSTMENT
6. OFFSETS TO STORM SEWER ENDWALLS ARE SHOWN ON THE STORM SEWER PLANS.
7. JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL CONCRETE APRON ENDWALLS IN ACCORDANCE TO SDD "JOINT TIES FOR CONCRETE PIPE".
THE COST OF THESE TIES SHALL BE INCIDENTAL TO THE COST OF THE PIPE.

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UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

BASE AGGREGATE DENSE

HMA PAVEMENT

ASPHALTIC SURFACE

305.0110 * 305.0120 * 465.0105 * 455.0605 * 460.1100 * 460.1101 * 465.0105 * 465.0125

STATION TO STATION	LOCATION	BASE AGGREGATE DENSE			TACK COAT	PAVEMENT TYPE E-0.3		PAVEMENT TYPE E-1	ASPHALTIC SURFACE	DRIVEWAYS AND FIELD ENTRANCES		TEMPORARY
		3/4 - INCH	1 1/4 - INCH	ASPHALTIC MATERIAL PG58-28		TON	GAL			TON	TON	
827+00	838+00	189	3,433	10	---	---	174	---	---	---	---	---
839+65	840+00	0	130	---	---	---	---	---	---	---	---	---
840+00	855+00	278	4,443	14	---	---	254	---	---	---	---	---
855+00	870+00	313	4,101	16	---	---	280	---	---	---	---	---
870+00	885+00	313	4,521	16	---	---	280	---	---	---	---	---
885+00	900+00	276	5,660	12	---	---	206	---	---	---	---	---
900+00	905+62	75	1,968	4	---	---	62	---	---	---	---	---
907+32	915+21	119	2,427	6	---	---	100	---	---	---	---	---
113+08	118+74	---	654	---	---	---	---	---	---	---	---	---
120+65	124+69	17	503	4	---	---	65	---	---	---	---	---
500+00	503+80	---	1,043	---	---	---	---	---	---	---	---	---
402+00	406+82	45	1,283	25	---	---	60	---	---	---	---	---
218+00	219+56	12	661	16	---	---	36	---	---	---	---	---
220+20	222+05	12	647	16	---	---	38	---	---	---	---	---
315+50	320+07	35	1,262	5	---	---	81	---	---	---	---	---
600+00	603+80	---	953	---	---	---	---	---	---	---	---	---
17+75	22+75	---	276	---	---	---	---	---	---	---	---	---
1900+00	1925+00	10	---	45	---	---	---	---	---	---	---	---
PROJECT ID 4140-20-73 SUBTOTALS (0010)		1,694	33,965	189	301	---	1,502	1,807	22	30	---	77
113+08	115+60	---	84	---	---	---	---	---	---	---	---	---
PROJECT ID 4140-20-73 SUBTOTALS (0020)		0	84	0	0	0	0	0	0	0	0	0
PROJECT ID 4140-20-73 TOTALS		1,694	34,049	189	301	---	1,502	1,807	22	30	---	77

* - Additional Quantities Elsewhere

DUST CONTROL AND WATER

ROADWAY	STATION -	STATION	DESCRIPTION	MGAL
			624.0100 WATER	
STH 42/57 AND SIDE ROADS	827+00	915+21	EXCAVATION	80
	827+00	915+21	BASE AGGREGATE	75
	827+00	915+21	SEEDING	1,645
PROJECT 4140-20-73 TOTALS (0010)				1,800

APPLICATION RATES:

2 GAL / TON BASE COURSE CARC
 2 GAL / CY COMMON EXCAVATION OR BORROW
 5.5 GAL / SY SEEDING * 4 WEEKS

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UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

EROSION CONTROL ITEMS

STATION TO	STATION	OFFSET	RIPRAP MEDIUM CY	SILT FENCE LF	SILT FENCE MAINTENANCE LF	INLET PROTECTION TYPE A EACH	INLET PROTECTION TYPE C EACH	TEMPORARY DITCH LF	CULVERT PIPE CHECKS EACH	TRACKING PADS EACH	GEOTEXTILE FABRIC TYPE HR SY
STAGE 1											
UTAH STREET	17+75	22+75	RT	200	200	---	5	---	---	---	---
STAGE 2											
STH 421/57	827+00	840+00	LT	---	---	11	11	60	12	1	34
	827+00	840+00	RT	140	140	3	3	48	---	---	34
	840+00	855+00	LT	---	---	1	1	84	---	---	12
	840+00	855+00	RT	1,320	1,320	---	---	12	---	---	---
	855+00	870+00	LT	---	---	---	---	60	9	---	---
	855+00	870+00	RT	1,130	1,130	---	---	24	---	---	---
	870+00	885+00	LT	1,040	1,040	2	2	18	---	---	---
	870+00	885+00	RT	1,520	1,520	2	2	---	---	---	24
	885+00	900+00	LT	690	690	1	1	60	---	---	24
	885+00	900+00	RT	210	210	9	9	60	---	---	46
	900+00	914+94	LT	670	670	9	9	48	---	1	22
	900+00	914+94	RT	---	---	8	8	72	9	---	70
MICHIGAN STREET											
	115+60	RAB	LT	290	290	8	7	12	12	---	---
	115+60	RAB	RT	250	250	1	1	24	---	---	36
	RAB	124+50	LT	100	100	---	---	24	6	1	34
	RAB	124+50	RT	110	110	---	---	36	4	---	34
BAYVIEW ROAD											
	402+00	406+82	LT	---	---	---	---	36	---	---	---
	402+00	406+82	RT	500	500	---	---	---	6	---	---
ALABAMA STREET											
	218+00	219+56	LT	---	---	---	---	12	---	---	22
	218+00	219+56	RT	---	---	---	---	12	---	---	22
	220+20	222+05	LT	---	---	---	---	12	9	1	48
	220+20	222+05	RT	40	40	---	---	12	---	---	63
EGG HARBOR ROAD											
	315+50	RAB	LT	520	520	1	1	---	---	1	22
	315+50	RAB	RT	350	350	2	2	12	---	---	46
STAGE 3											
EGG HARBOR CONNECTOR											
	1900+00	1925+00	LT	---	---	---	---	60	4	---	---
	1900+00	1925+00	RT	---	---	---	---	36	---	---	---
UNDISTRIBUTED											
				37	2,270	2,270	---	190	26	---	150
PROJECT ID 4140-20-73 TOTAL (0010)											
				173	11,350	11,350	58	1,030	115	5	743

TRACKING PADS TO BE LOCATED IN THE FIELD BY CONTRACTOR.

* - Additional Quantities Elsewhere

EROSION CONTROL ITEMS

STAGE	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
1	1	1
2	1	3
3	1	2
TOTAL (0010)		
	3	6

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UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

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PAVEMENT MARKING

STATION TO	STATION LOCATION	PAVEMENT MARKING											
		EPOXY 4-INCH (WHITE) LF	EPOXY 4-INCH (YELLOW) LF	EPOXY 6-INCH (WHITE) LF	EPOXY 8-INCH (WHITE) LF	ARROWS BIKE LANE EPOXY EACH	BIKE LANE EPOXY EACH	SYMBOLS BIKE LANE EPOXY EACH	CURB EPOXY LF	STOP LINE EPOXY 18-INCH LF	ISLAND NOSE EPOXY EACH	DIAGONAL EPOXY 12-INCH (YELLOW) LF	
STH 42/57													
827+00	RT/LT	2,070	2,290	225	250	---	---	---	---	---	1	80	
840+00	RT/LT	2,950	3,005	---	---	---	---	---	---	---	1	105	
855+00	RT/LT	3,000	3,000	---	---	---	---	---	---	---	---	---	
870+00	RT/LT	3,000	3,000	---	---	---	---	---	---	---	1	175	
885+00	RT/LT	2,670	2,850	---	1,595	---	---	---	---	---	---	---	
900+00	RT/LT	2,415	2,640	225	190	---	---	---	---	---	1	85	
STH 42/57 TOTAL		16,105	16,785	450	2,035	---	---	---	---	---	4	445	
MICHIGAN STREET													
115+60	RT/LT	1,105	1,325	135	---	2	2	---	---	---	2	30	
MICHIGAN STREET TOTAL		1,105	1,325	135	---	2	2	---	---	---	2	30	
BAYVIEW ROAD													
402+00	RT/LT	---	850	---	---	---	---	---	---	---	---	---	
BAYVIEW ROAD TOTAL		---	850	---	---	---	---	---	---	---	---	---	
ALABAMA STREET													
218+00	RT/LT	---	470	---	---	---	---	---	42	---	2	---	
ALABAMA STREET TOTAL		---	470	---	---	---	---	---	42	---	2	---	
EGG HARBOR ROAD													
311+50	RT/LT	1,635	1,675	70	---	---	---	---	---	---	1	60	
EGG HARBOR ROAD TOTAL		1,635	1,675	70	---	---	---	---	---	---	1	60	
UTAH STREET													
17+75	RT/LT	---	630	---	---	---	---	75	---	---	---	---	
UTAH STREET TOTAL		---	630	---	---	---	---	75	---	---	---	---	
EGG HARBOR CONNECTOR													
1900+00	RT/LT	3,960	2,430	---	---	---	---	---	---	---	---	---	
EGG HARBOR CONNECTOR TOTAL		3,960	2,430	---	---	---	---	---	---	---	---	---	
ALL ROADS SUBTOTAL		22,805	24,165	655	2,035	2	2	75	42	9	535		
PROJECT 4140-20-73 TOTALS (0010)		46,970	655	2,035	2,035	2	2	75	42	9	535		

* - Additional Quantities Elsewhere

NOTE: ADDITIONAL PAVEMENT MARKING QUANTITIES SHOWN ON NEXT SHEET.

*UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

REMOVING PAVEMENT

STATION TO	STATION	LOCATION	SY	REMARKS
204.0100				
<u>SOUTH SEGMENT</u>	1765+84 -	1767+68	STH 42	Corrugated Median, Taper Pvmnt, & Sloped Nose
<u>TOTAL</u>			100	
*ADDITIONAL QUANTITIES ELSEWHERE				

BUTT JOINTS

STATION	LOCATION	SY	REMARKS
204.0105			
204.0115			
REMOVING ASPHALTIC SURFACE BUTT JOINTS			
<u>SOUTH SEGMENT</u>	1760+00	5	SOUTH LIMITS, NB LANES
	1760+89	5	SOUTH LIMITS, SB LANES
	1776+87	5	NORTH LIMITS**
<u>SOUTH TOTAL</u>		15	
<u>NORTH SEGMENT</u>	1795+14	---	SOUTH LIMITS**
	1815+70	---	UTAH STREET WEST
	1816+96	---	UTAH STREET EAST
	1832+31	---	NORTH LIMITS
<u>NORTH TOTAL</u>		0	
<u>TOTAL</u>		15	

**BUTT JOINTS SHOULD BORDER APPROACH SLABS. DO NOT MILL OR SAW CUT INTO APPROACH SLABS

REMOVING ASPHALTIC SURFACE MILLING

STATION TO	STATION	LOCATION	SY	REMARKS
204.0120				
<u>SOUTH SEGMENT</u>	1770+75 -	1777+15	STH 42	
<u>NORTH SEGMENT</u>	1794+76 -	1832+31	STH 42	
<u>TOTAL</u>			17,805	
*ADDITIONAL QUANTITIES ELSEWHERE				

REMOVING CURB & GUTTER

STATION TO	STATION	LOCATION	LF	REMARKS
204.0150				
<u>SOUTH SEGMENT</u>	1762+00 -	1762+22	STH 42 NB LANES	20
	1765+62 -	1765+84	STH 42 NB LANES	20
	1765+70 -	1765+84	STH 42 SB LANES	14
<u>TOTAL</u>			54	
*ADDITIONAL QUANTITIES ELSEWHERE				

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February 3, 2016

REMOVING GUARDRAIL

204,0165
LF

STATION TO	STATION	LOCATION	REMARKS
* 204,0165 LF			
SOUTH SEGMENT			
1771+79 -	1777+11	STH 42 RT	SE QUAD BAYVIEW BRIDGE
1772+75 -	1777+14	STH 42 LT	SW QUAD BAYVIEW BRIDGE
		SOUTH TOTAL	980
NORTH SEGMENT			
1794+76 -	1797+75	STH 42 RT	NE QUAD BAYVIEW BRIDGE
1794+76 -	1799+75	STH 42 LT	SW QUAD BAYVIEW BRIDGE
		NORTH TOTAL	798
		TOTAL	1778

*ADDITIONAL QUANTITIES ELSEWHERE

STATION TO	STATION	LOCATION	LS	REMARKS
1760+00 -	1832+31	STH 42	1	THROUGHOUT PROJECT

PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT)

211,0100

STATION TO	STATION	LOCATION	LS	REMARKS
1760+00 -	1832+31	STH 42	1	THROUGHOUT PROJECT

BASE AGGREGATE & SHAPING SHOULDERS

STATION TO	STATION	LOCATION	TON	TON	TON	STA	REMARKS
SOUTH SEGMENT							
1760+00 -	1777+14	STH 42 LT & RT	328	---	---	---	SHOULDERING
1765+84 -	1767+68	STH 42	---	29	---	---	REMOVAL CORRUGATED MEDIAN
NORTH SEGMENT							
1794+76	1832+31	STH 42 LT & RT	232	---	---	40	
TOTAL			560	29	---	40	

*ADDITIONAL QUANTITIES ELSEWHERE

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ASPHALTIC MATERIAL PG58-28

STATION TO	STATION	LOCATION	GAL	TACK COAT	HMA TYPE E-1	HMA TYPE E-3	TON
SOUTH SEGMENT							
1760+00	-	1777+14	63	494	---	---	1147
NORTH SEGMENT							
1794+85	-	1832+31	108	979	---	---	1958
1815+12	-	1816+67	4	36	72	---	---
1816+22	-	1817+46	3	27	55	---	---
NORTH TOTAL			115	1042	126	---	1958
TOTAL			178	1536	126	---	3105

*ADDITIONAL QUANTITIES ELSEWHERE

CURB AND GUTTER AND ADJUSTING INLETS

STATION TO	STATION	LOCATION	DRILLED TIE BARS EACH	CONCRETE	ADJUSTING INLET COVERS EACH
SOUTH SEGMENT					
1762+00	-	1762+22	6	20	1
1765+62	-	1765+84	6	20	1
1765+70	-	1765+84	4	14	1
TOTAL			16	54	3

*ADDITIONAL QUANTITIES ELSEWHERE

BARRIER SYSTEM SHAPING GRADING AND FINISHING

STATION TO	STATION	LOCATION	614.0010 EACH	BORROW CY	SALVAGED TOPSOIL SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 30 LB	SEEDING TEMPORARY LB	REMARKS
SOUTH SEGMENT									
1770+50	-	1777+14	1	253	1210	0.8	22	16	SW QUAD BAYVIEW BRIDGE
1770+76	-	1777+11	1	20	122	0.1	2	2	SE QUAD BAYVIEW BRIDGE
SOUTH TOTAL			2	273	1332	0.9	24	18	
NORTH SEGMENT									
1794+76	-	1801+27	1	53	624	0.4	11	8	NW QUAD BAYVIEW BRIDGE
1794+76	-	1799+00	1	11	124	0.1	2	2	NE QUAD BAYVIEW BRIDGE
NORTH TOTAL			2	64	748	0.5	13	10	
TOTAL			4	337	2080	1.4	37	28	

** ITEMS AND QUANTITIES FOR BLD INFORMATION ONLY

Addendum No. 02
 ID 4140-20-73
 Added Sheet 174C
 February 3, 2016

GUARDRAIL ITEMS

STATION TO	STATION	LOCATION	SY	LF	LF	EACH
1771+58	-	STH 42 LT	---	462.5	39	1
1771+82	-	STH 42 RT	125	450.0	39	1
SOUTH TOTAL						
1794+76	-	STH 42 LT	---	412.5	39	1
1794+76	-	STH 42 RT	120	212.5	39	1
NORTH TOTAL						
TOTALS						
				245	1537.5	156
						4

614. 0397 614. 2300 614. 2500 614. 2610
 GUARDRAIL MGS THRI E
 MOW STRIP BEAM
 EMULSIFIED ASPHALT GUARDRAIL 3 TRANSITION TERMINAL EAT

CONCRETE MEDIAN SLOPED NOSE

SOUTH SEGMENT	STATION TO	STATION	LOCATION	SF
	1765+83	-	1765+90	STH 42
				TOTAL
				70

* ADDITIONAL QUANTITIES ELSEWHERE

620. 0300

SILT FENCE AND ROCK BAGS

LOCATION	LF	ROCK BAGS EACH	REMARKS
SW QUAD BAYVIEW BRIDGE	700	12	USE BAGS FOR SF RELIEF
SE QUAD BAYVIEW BRIDGE	670	12	
SOUTH TOTAL		24	
NW QUAD BAYVIEW BRIDGE	700	12	
NE QUAD BAYVIEW BRIDGE	470	12	
NORTH TOTAL		24	
TOTAL		48	

* ADDITIONAL QUANTITIES ELSEWHERE

628. 1504 628. 7570

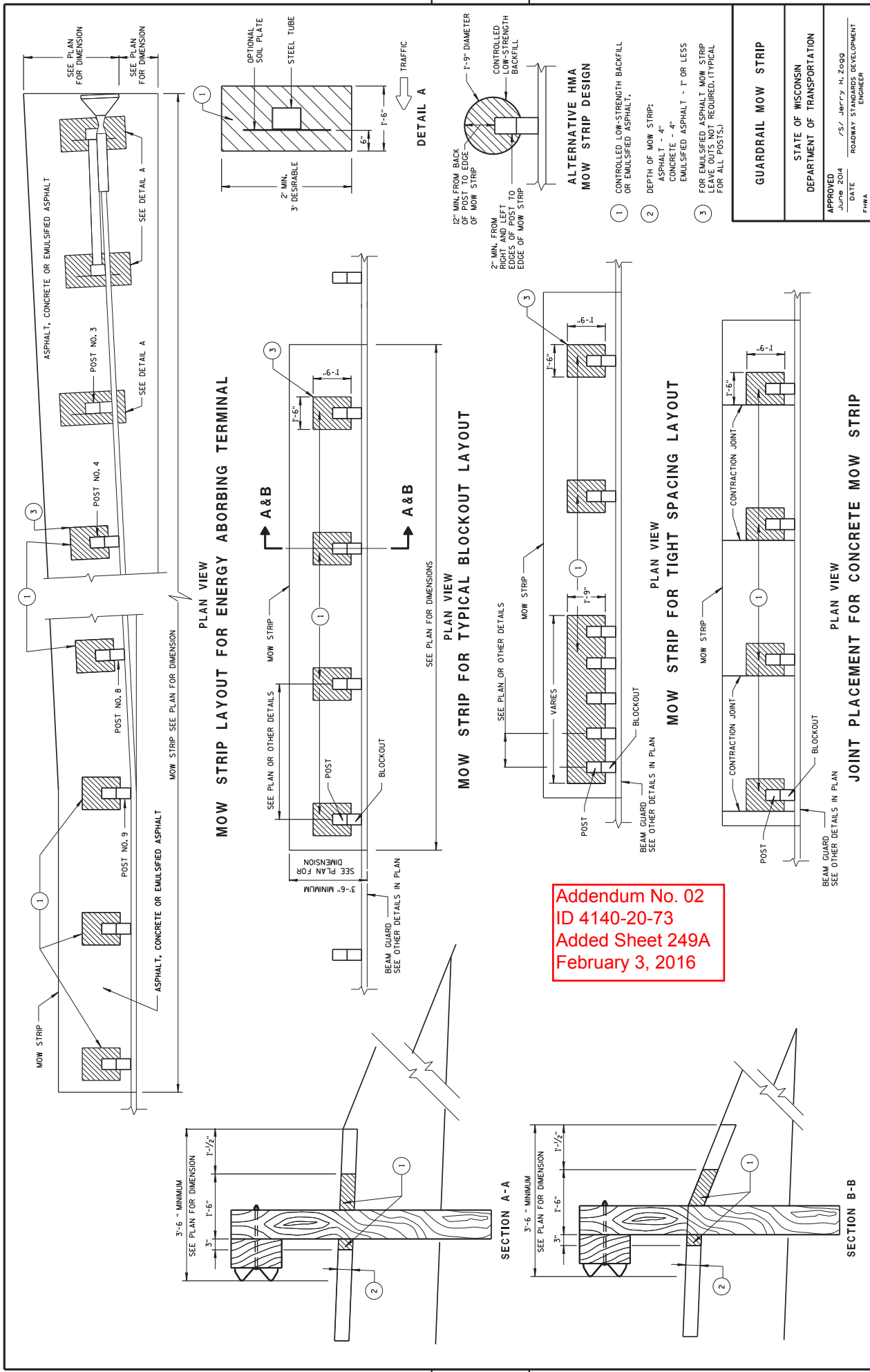
INLET PROTECTION TYPE C

SOUTH SEGMENT	STATION	LOCATION	EACH
	1762+11	STH 42	1
	1765+72	STH 42	1
	1765+81	STH 42	1
	1777+00	STH 42 LT	1
SOUTH TOTAL			4
NORTH SEGMENT			
	1394+90	STH 42 LT & RT	2
	1811+75	STH 42	1
	1812+20	STH 42	1
	1813+90	STH 42	2
	1814+10	STH 42	1
	1817+20	STH 42	2
	1820+50	STH 42	2
NORTH TOTAL			11
TOTAL			
15			

* ADDITIONAL QUANTITIES ELSEWHERE

628. 7015

Addendum No. 02
 ID 4140-20-73
 Added Sheet 174D
 February 3, 2016

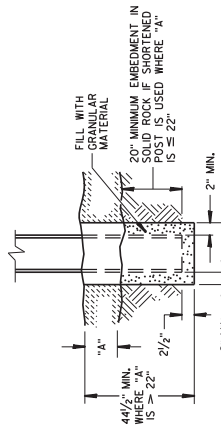


Addendum No. 02
 ID 4140-20-73
 Added Sheet 249A
 February 3, 2016

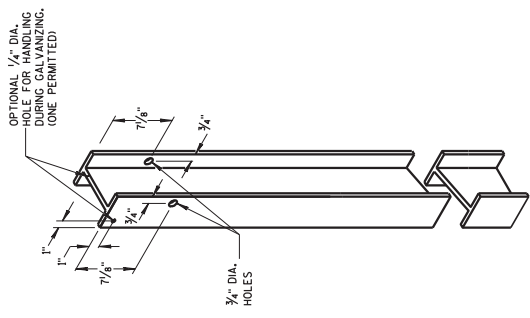
GUARDRAIL MOW STRIP
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED June 2014 DATE /S/ JERRY H. ZOGG ROADWAY STANDARDS DEVELOPMENT ENGINEER P.W.A.

GENERAL NOTES

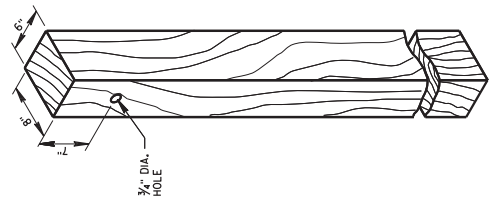
- 1 WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- 2 USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF WOOD OR WOOD BLOCKOUTS SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- 3 IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2 INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS TO THE LENGTH AND INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- 5 FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 2 1/4" TO 3 1/2".
- 6 WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



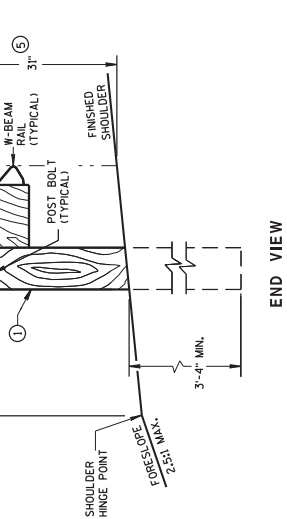
SETTING STEEL OR WOOD POST IN ROCK



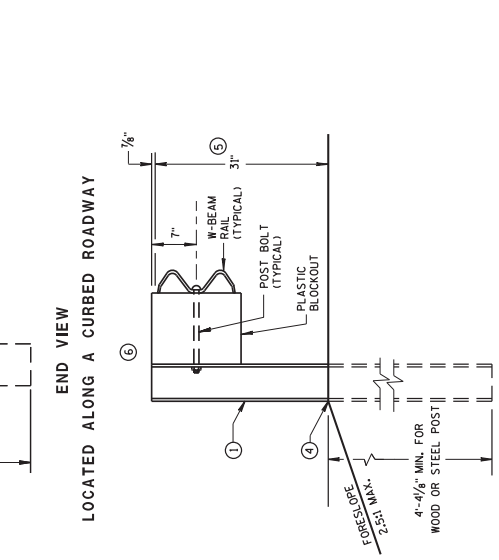
STEEL POST & HOLE PUNCHING DETAIL
(W6X9)



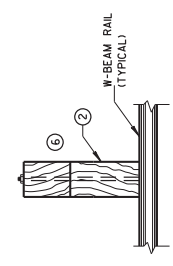
WOOD POST
(6" X 8") NOMINAL



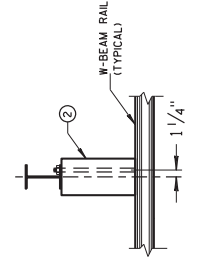
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



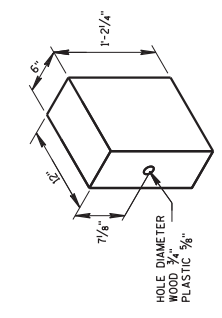
END VIEW
LOCATED ALONG A CURBED ROADWAY



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
PLASTIC BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT

END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)

PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

Addendum No. 02
ID 4140-20-73
Added Sheet 249B
February 3, 2016

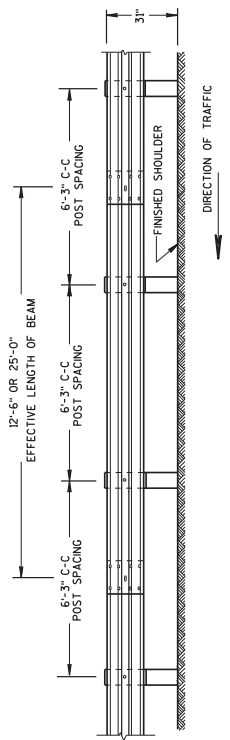
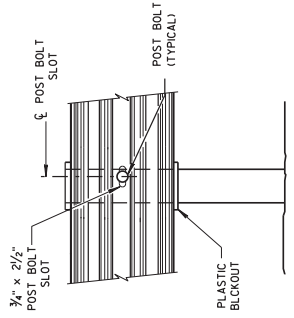
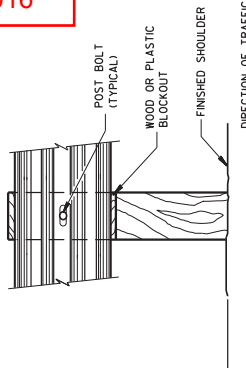
MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

249B

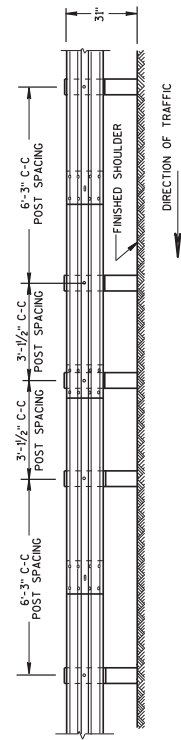
Addendum No. 02
 ID 4140-20-73
 Added Sheet 249C
 February 3, 2016

GENERAL NOTES

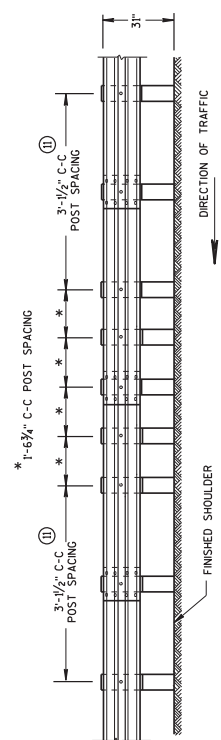
- ⑦ PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.
 - ⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL RAIL. SPICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
 - ⑨ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
 - ⑩ PROVIDE AN ANGLE OF BEND OF $90^\circ \pm 1^\circ$ FOR TWO-SIDED REFLECTORS.
 - ⑪ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.
- POST BOLTS ARE A $\frac{3}{8}$ " DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES $\frac{3}{4}$ " DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND $\frac{3}{8}$ " DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.
- GUARD RAIL SPICE BOLTS ARE A $\frac{3}{8}$ " DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPICE BOLT REQUIRES $\frac{3}{8}$ " DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



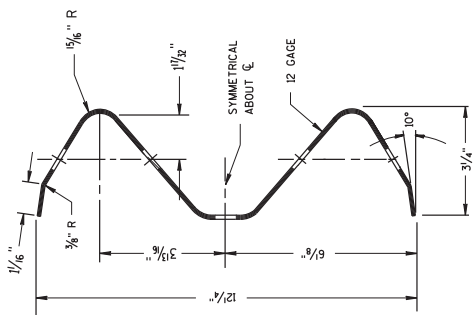
POST SPACING STANDARD INSTALLATION



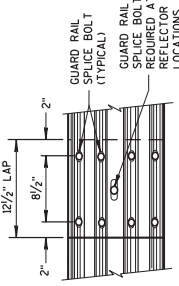
**HALF POST SPACING WITH LONGER POSTS (H) AND
 HALF POST SPACING WITH LONGER POSTS (K)**



QUARTER POST SPACING (QS)

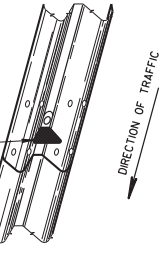
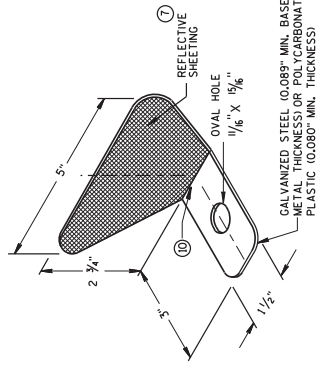


SECTION THRU W-BEAM RAIL



FRONT VIEW

MID-SPAN BEAM SPICE



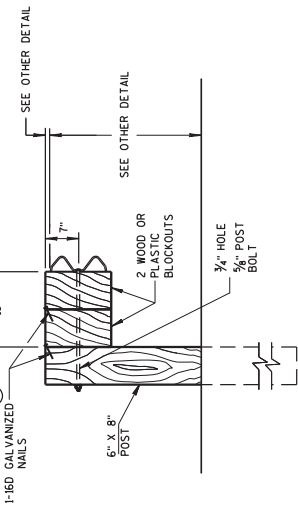
REFLECTOR SPACING

BEAM GUARD RAIL LENGTH	REFLECTOR NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
< 200'	50° C-C	1
> 200'	100° C-C	3
< 200'	25° C-C	1
> 200'	50° C-C	6
< 200'	50° C-C	2
> 200'	100° C-C	3

ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

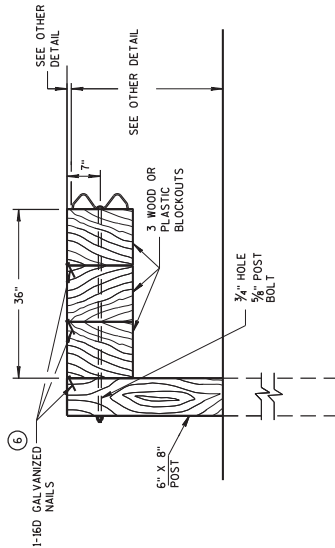
MIDWEST GUARDRAIL SYSTEM
 (MGS) GUARDRAIL

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION



DETAIL FOR 16" BLOCKOUT DEPTH

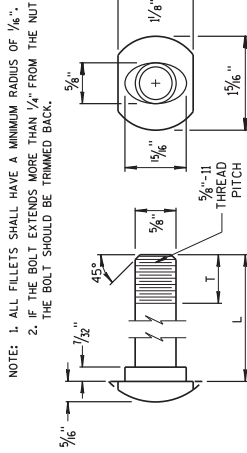
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES; THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

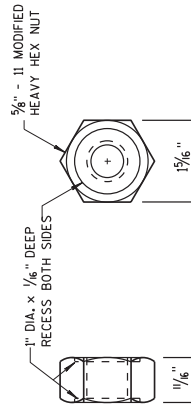
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



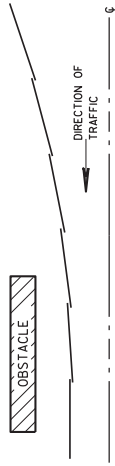
POST BOLT TABLE

L	T (MIN.)
1/4"	1/8"
2"	1 3/4"
10"	4"
14"	4 1/2"
18"	4"
21"	4 1/6"
25"	4"

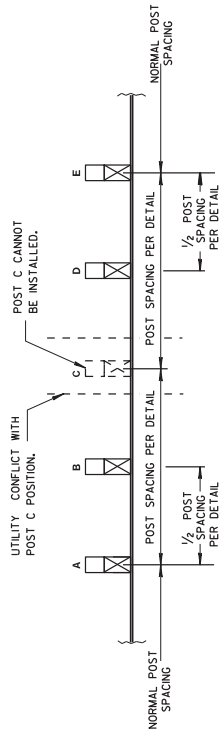
ALTERNATE BOLT HEAD



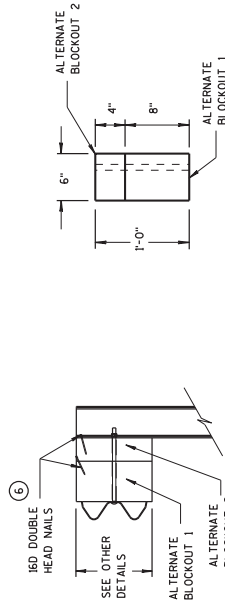
POST BOLT AND RECESS NUT



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW TOP VIEW ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED: _____
DATE: June 2014
BY: JERRY H. ZOGG
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

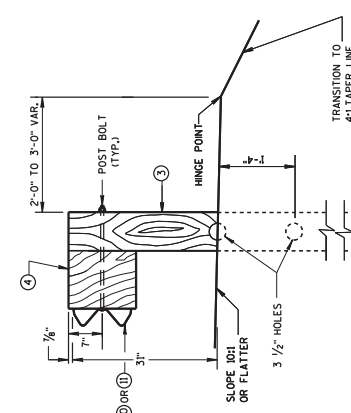
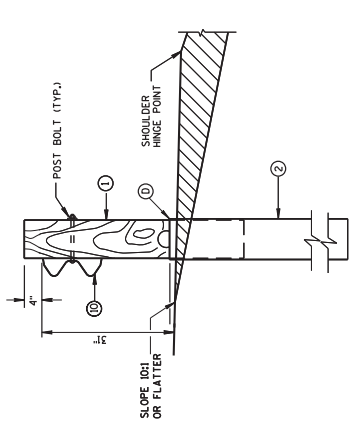
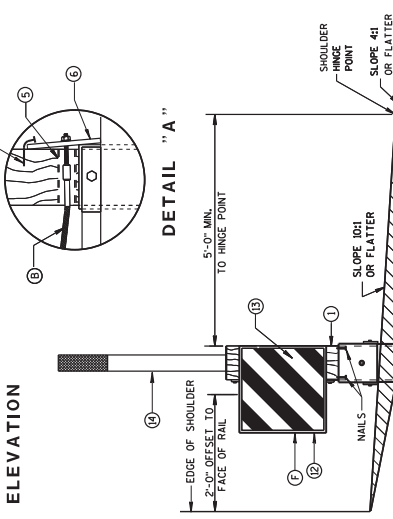
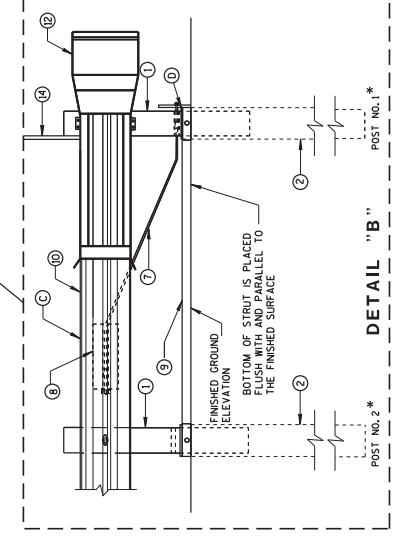
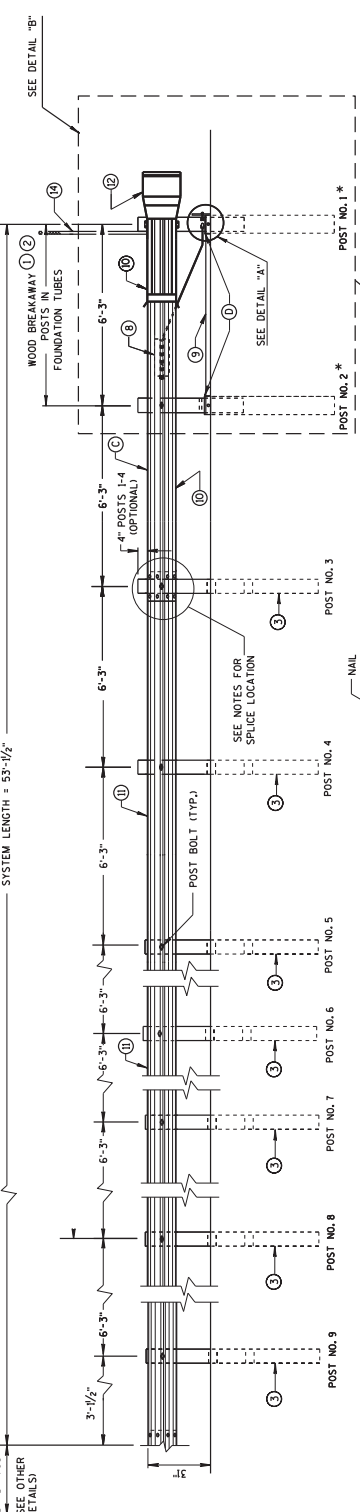
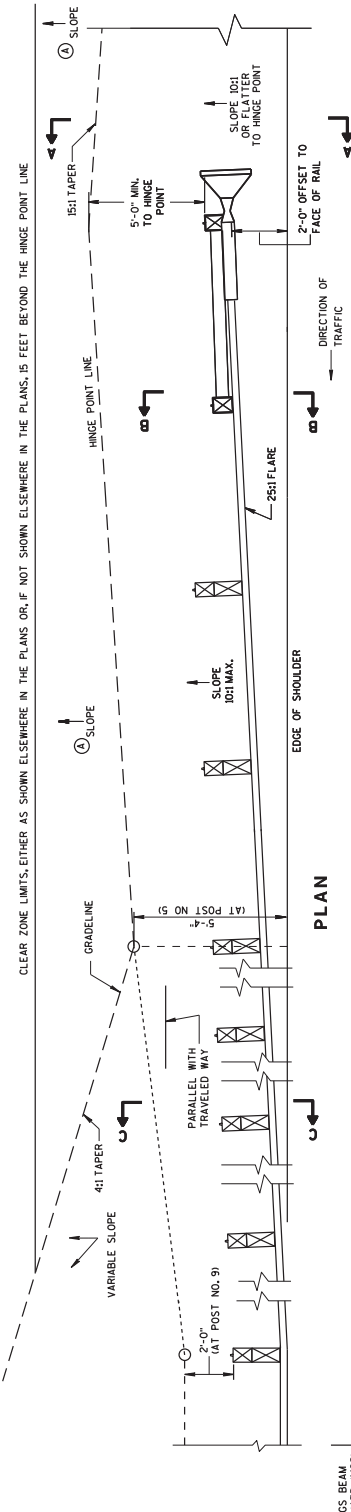
Addendum No. 02
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Added Sheet 249D
February 3, 2016

CLEAR ZONE LIMITS, EITHER AS SHOWN ELSEWHERE IN THE PLANS OR, IF NOT SHOWN ELSEWHERE IN THE PLANS, IS FEET BEYOND THE HINGE POINT LINE

GENERAL NOTES

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.
- (C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.
- (D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.
- (E) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS, ONE SCREW PER CORNER.
- (F) 1/2" DIAMETER X 3" LONG LAG BOLT AND WASHER.
- (G) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURERS, SEE MANUFACTURER'S DRAWING FOR INFORMATION.
- (H) DIMENSIONS MAY VARY. SEE MANUFACTURER'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.
 * DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.
 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
 W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.
 THE CENTER OF THE UPPER 3/2" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2' ABOVE GROUND ELEVATION.



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 Added Sheet 249E
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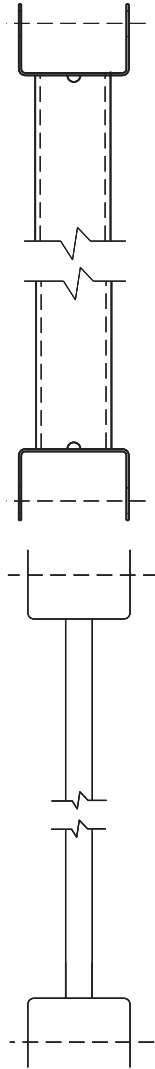
MIDWEST GUARDRAIL SYSTEM
 ENERGY ABSORBING TERMINAL
 (MGS)

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

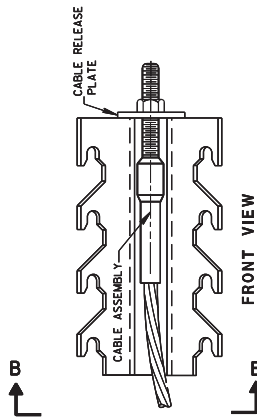
249E

BILL OF MATERIALS

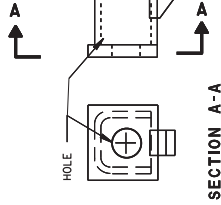
PART NO.	DESCRIPTION
1	MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
2	WOOD BREAKAWAY POST
3	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
4	WOOD CRT
5	WOOD BLOCKOUT
6	PIPE SLEEVE
7	BEARING PLATE
8	BCT CABLE ASSEMBLY
9	ANCHOR CABLE BOX
10	GROUND STRUT
11	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG. STANDARD W-BEAM RAIL, MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
13	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



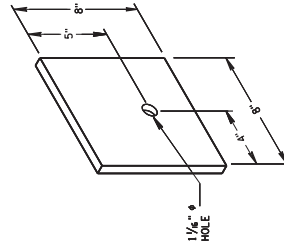
⑨ ⑭
GENERIC GROUND STRUT



SECTION B-B



⑧ ⑨ ⑩
GENERIC ANCHOR CABLE BOX



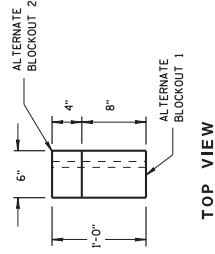
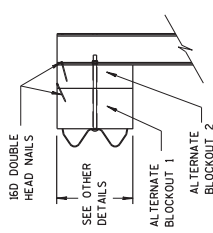
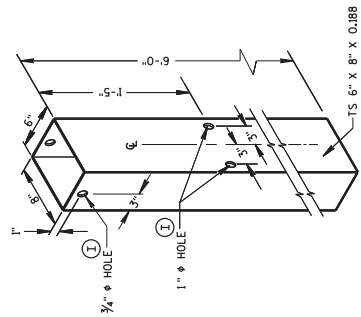
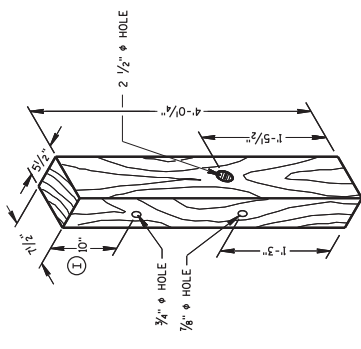
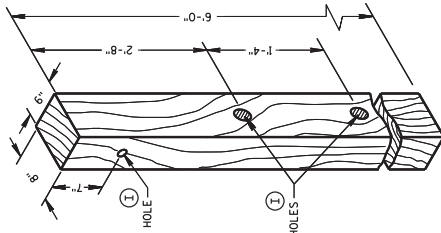
⑥
BEARING PLATE

Addendum No. 02
ID 4140-20-73
Added Sheet 249F
February 3, 2016

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Addendum No. 02
 ID 4140-20-73
 Added Sheet 249G
 February 3, 2016

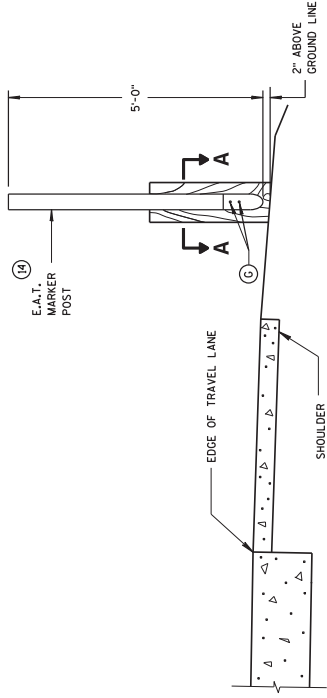
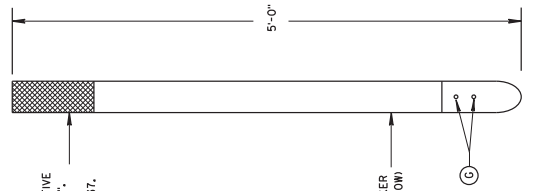
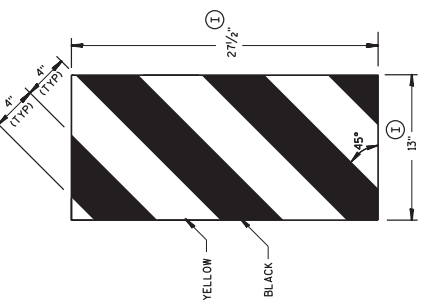
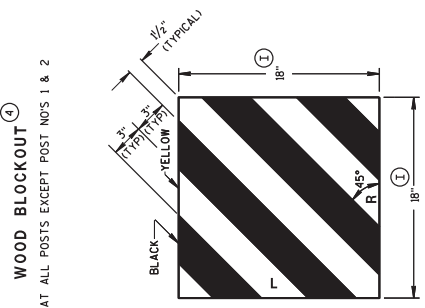
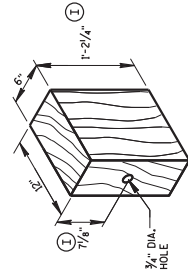


**ALTERNATE WOOD
 BLOCKOUT DETAIL**

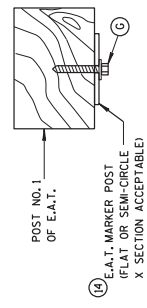
WOOD BREAKAWAY POST

FOUNDATION TUBE

WOOD CRT POST



**TYPICAL INSTALLATION OF E.A.T.
 MARKER POST BACKSIDE OF POST NO. 1**
 (E.A.T. AND RAIL REMOVED FOR CLARITY)



E.A.T. MARKER POST

GENERIC REFLECTIVE SHEETING

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED /S/ JERRY H. ZOGG DATE June 2014 ROADWAY STANDARDS DEVELOPMENT ENGINEER

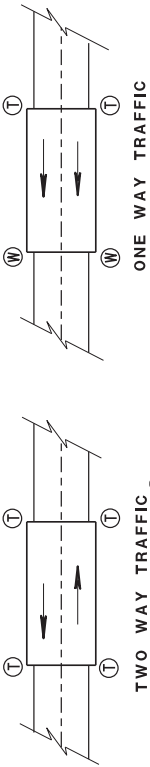
GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS. TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING M B 42 FOR MORE INFORMATION.

① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

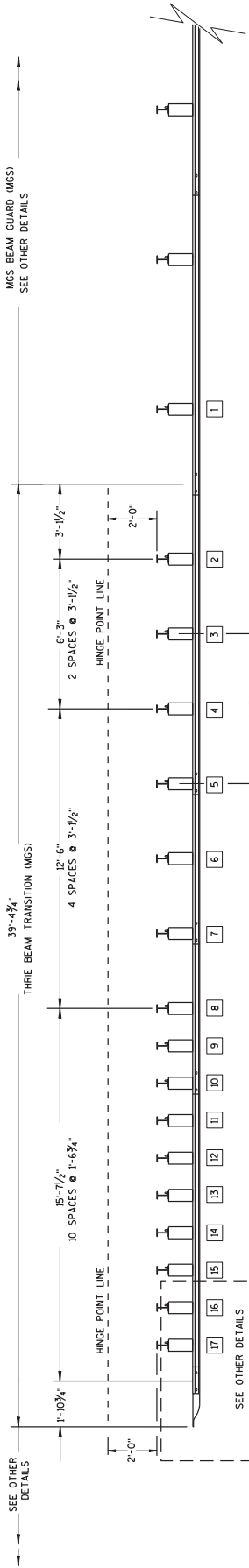
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.



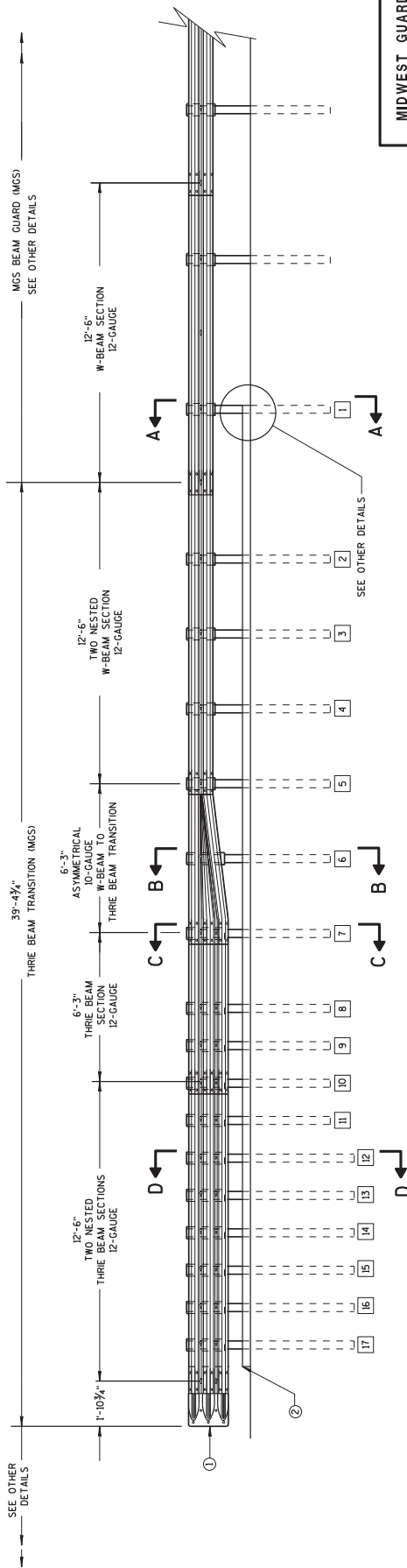
TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

① THRIE BEAM CONNECTION

② W-BEAM CONNECTION WHEN REQUIRED



PLAN VIEW



ELEVATION VIEW

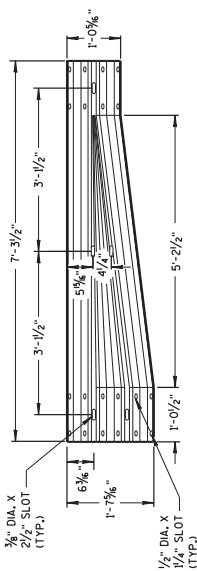
Addendum No. 02
ID 4140-20-73
Added Sheet 249H
February 3, 2016

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

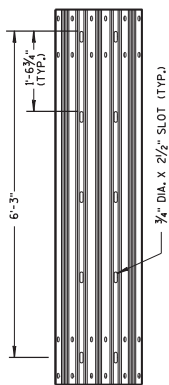
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

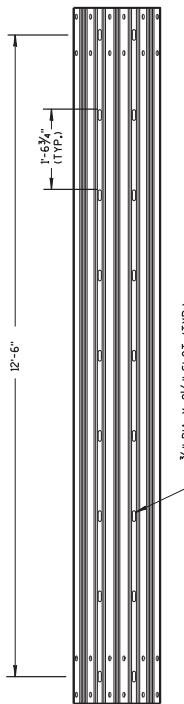
249H



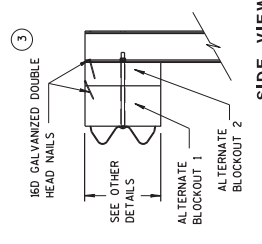
W-BEAM TO THRIE BEAM TRANSITION SECTION



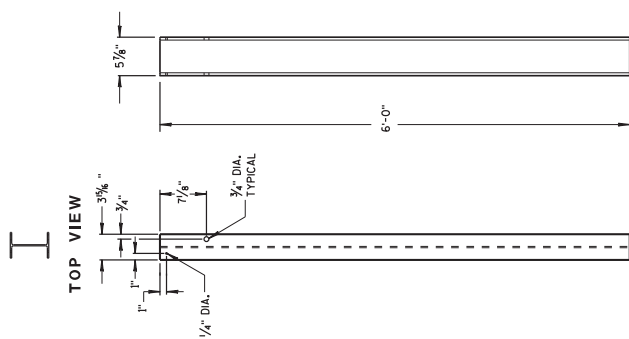
6'-3\"/>



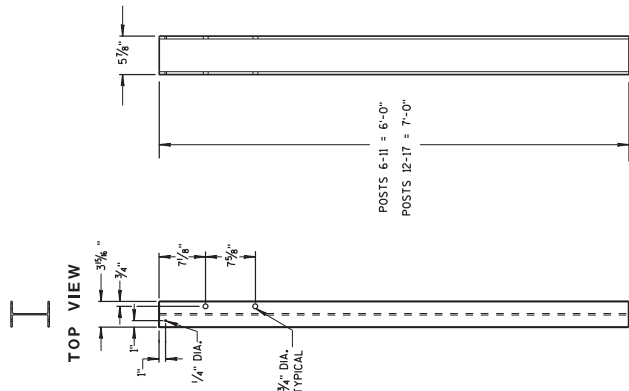
12'-6\"/>



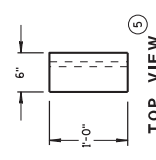
ALTERNATE WOOD BLOCKOUT DETAIL



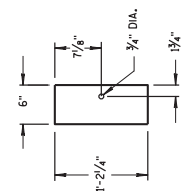
**FRONT VIEW
STEEL POSTS 1-5**



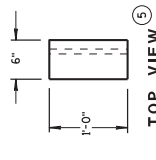
**FRONT VIEW
STEEL POSTS 6-17**



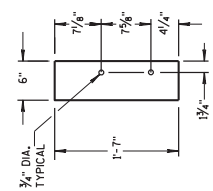
TOP VIEW



**FRONT VIEW
BLOCKOUT
POSTS 1-5**



TOP VIEW



**FRONT VIEW
BLOCKOUT
POSTS 6-17**

GENERAL NOTES

- STEEL POSTS ARE W6X9 OR W6X8.5.
- BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.
- WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

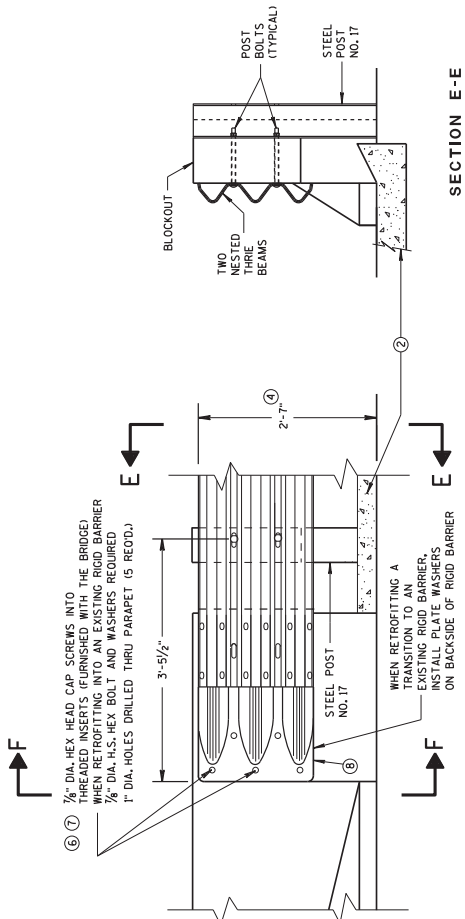
Addendum No. 02
ID 4140-20-73
Added Sheet 249J
February 3, 2016

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

249J

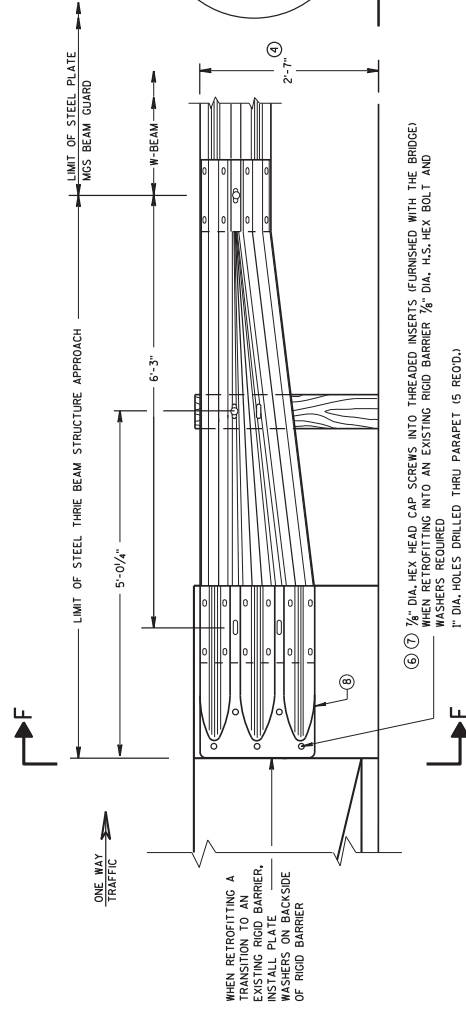
GENERAL NOTES

- ① THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSITION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.
- ② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- ③ TOLERANCE FOR TOP OF BEAM IS ± 1".
- ④ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- ⑤ BOLTS MAY BE L30S BOLTS OR A499 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THREE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THREE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- ⑥ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

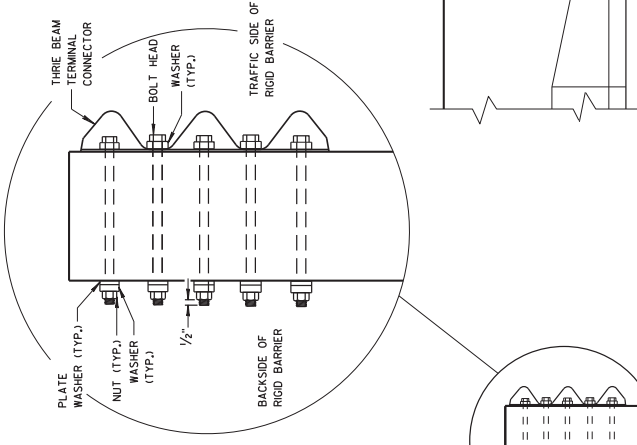


SECTION E-E
THREE BEAM CONNECTION TO BRIDGE
PARAPET WITH SQUARE ENDS

FRONT VIEW



FRONT VIEW
W BEAM TRANSITION AND CONNECTION TO
BRIDGE PARAPETS WITH SQUARE ENDS
 (USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



SECTION F-F
DRILL HOLE LOCATION

Addendum No. 02
 ID 4140-20-73
 Added Sheet 249K
 February 3, 2016

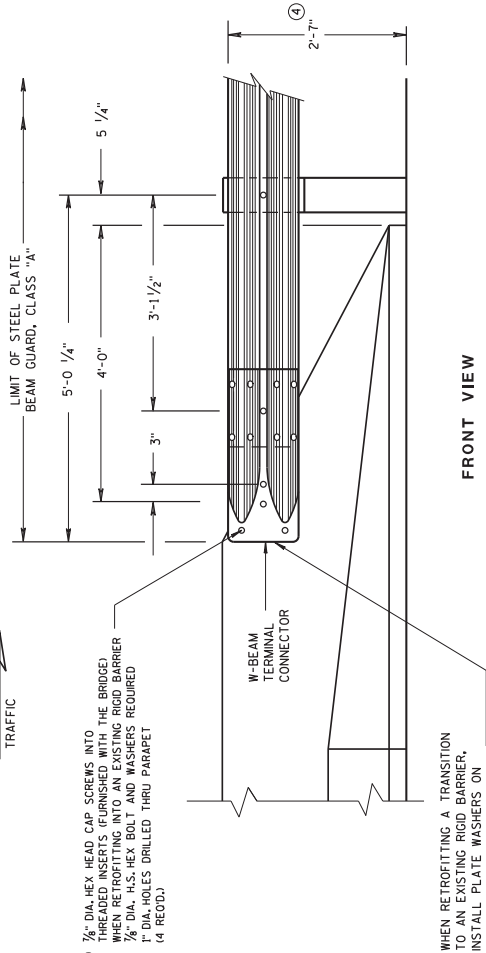
S. D. D. 14 B 45-44
MIDWEST GUARDRAIL SYSTEM THREE BEAM TRANSITION (MGS)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED JUNE, 2005
DATE /S/ JEFFY H. ZOGG ROADWAY STANDARDS DEVELOPMENT ENGINEER
P.W.A.

249K

6

6

ONE WAY TRAFFIC



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

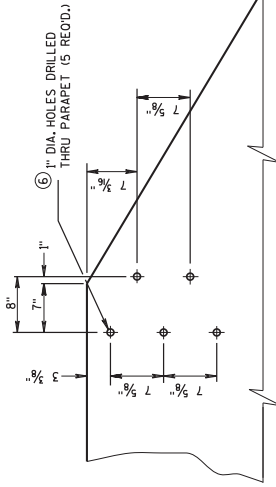
(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

WHEN RETROFITTING A TRANSITION TO AN EXISTING RIGID BARRIER, INSTALL PLATE WASHERS ON BACKSIDE OF RIGID BARRIER.

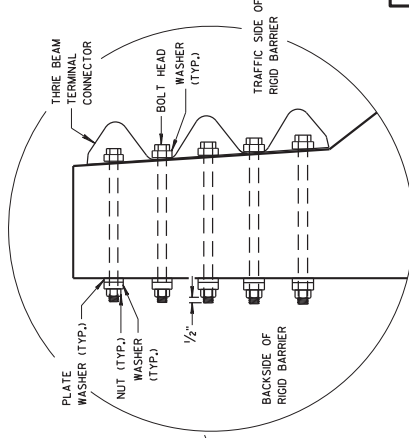
⑥ 7/8" DIA. HEX HEAD CAP SCREWS INTO PRELAME INSETS (FURNISHED WITH THE BRIDGE). WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER 7/8" DIA. H.S. HEX BOLT AND WASHERS REQUIRED 1" DIA. HOLES DRILLED THRU PARAPET (5 REOD.)

GENERAL NOTES

- ② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- ④ TOLERANCE FOR TOP OF BEAM IS ± 1".
- ⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- ⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTION PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE ONE ROUND STEEL WASHER THAT IS 2" O.D. X 3/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



SECTION I-I

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

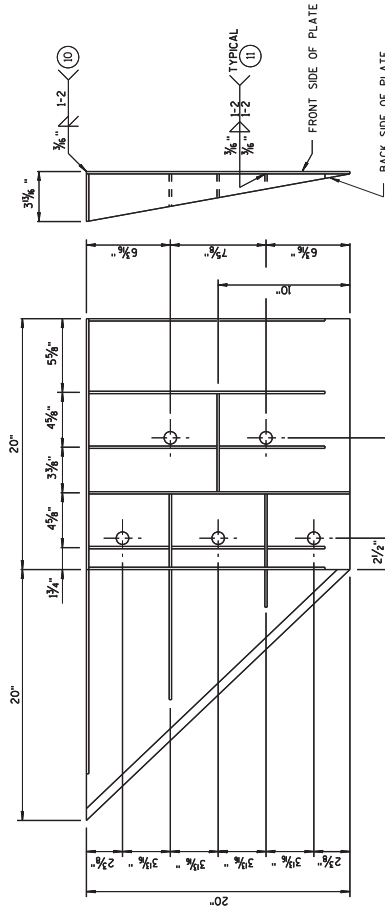
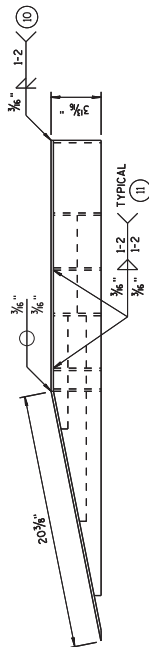
Addendum No. 02
ID 4140-20-73
Added Sheet 249L
February 3, 2016

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED June 8, 2015
DATE June 8, 2015
BY Jeffrey H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FWHA

GENERAL NOTES

- COVER PLATE PANELS ARE 3/8" THICK.
- ALL STIFFENERS ARE 1/4" THICK.
- CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.
- FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.
- ALL HOLE DIAMETERS SHALL BE 1".
- FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

- (10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/8" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.
- (11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/8" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

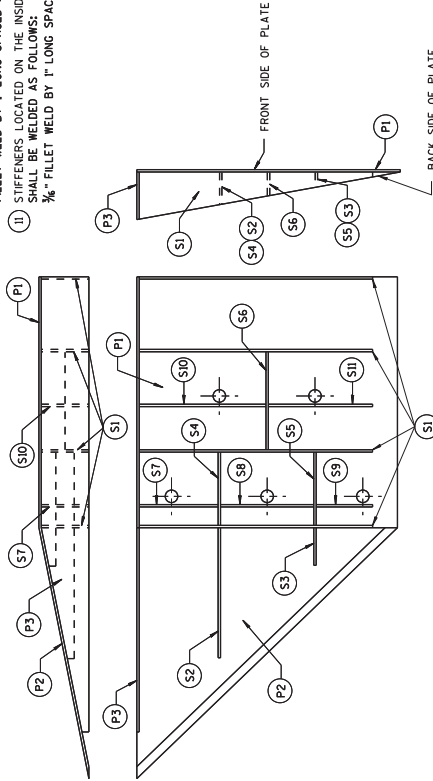


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)			
PLATE QUANTITY	SHAPE	SIZE (A X B X C X D)	THICKNESS
P1	1	20" x 20"	3/8"
P2	1	20" x 20" x 28 3/4"	3/8"
P3	1	39" x 3 1/2" x 20" x 19 3/4"	3/8"
S1	4	18 1/2" x 3 3/8" x 18 3/4"	1/4"
S2	1	10 1/4" x 2 1/8" x 10 3/8" x 1 1/2"	1/4"
S3	1	3" x 3 1/8" x 3 1/4" x 1/2"	1/4"
S4	1	6 1/8" x 2 1/8"	1/4"
S5	1	6 1/8" x 1 1/4"	1/4"
S6	1	7 3/4" x 1 3/4"	1/4"
S7	1	2 3/8" x 6" x 3 3/8" x 5 3/4"	1/4"
S8	1	1 3/8" x 7 1/2" x 2 1/2" x 1 7/8"	1/4"
S9	1	6 1/8" x 6 3/8" x 1 3/8"	1/4"
S10	1	1 1/8" x 9 1/2" x 3 3/8" x 9 1/8"	1/4"
S11	1	8 1/2" x 8 3/4" x 1 1/8"	1/4"

SINGLE SLOPE CONNECTION PLATE

Addendum No. 02
ID 4140-20-73
Added Sheet 249M
February 3, 2016

MIDWEST GUARDRAIL SYSTEM
THREE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE

/s/ Jerry H. Zoog
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

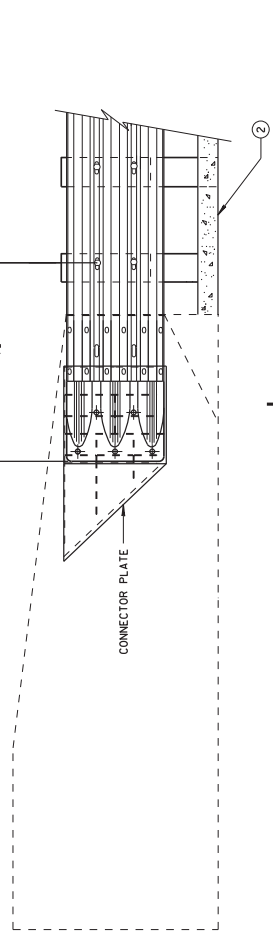
FWHA

GENERAL NOTES

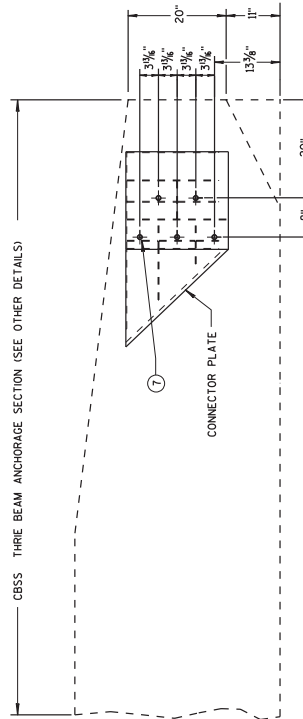
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② OPTIONAL CURB AND CUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

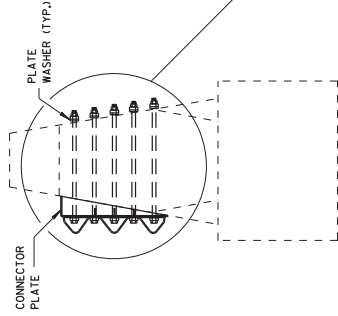
① BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A THREE BEAM CONNECTION. THE BOLT LENGTH AND THREADING LENGTH OF THE CONNECTOR PLATE SHALL BE VERIFIED BY THE CONTRACTOR. THE BOLT LENGTH AND THREADING LENGTH OF THE CONNECTOR PLATE SHALL BE VERIFIED BY THE CONTRACTOR. THE BOLT LENGTH AND THREADING LENGTH OF THE CONNECTOR PLATE SHALL BE VERIFIED BY THE CONTRACTOR. THE BOLT LENGTH AND THREADING LENGTH OF THE CONNECTOR PLATE SHALL BE VERIFIED BY THE CONTRACTOR.



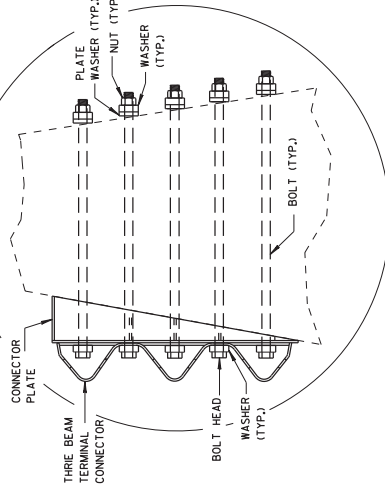
THREE BEAM CONNECTION TO SINGLE SLOPE BARRIER



SINGLE SLOPE CONNECTION PLATE PLACEMENT



SECTION N-N

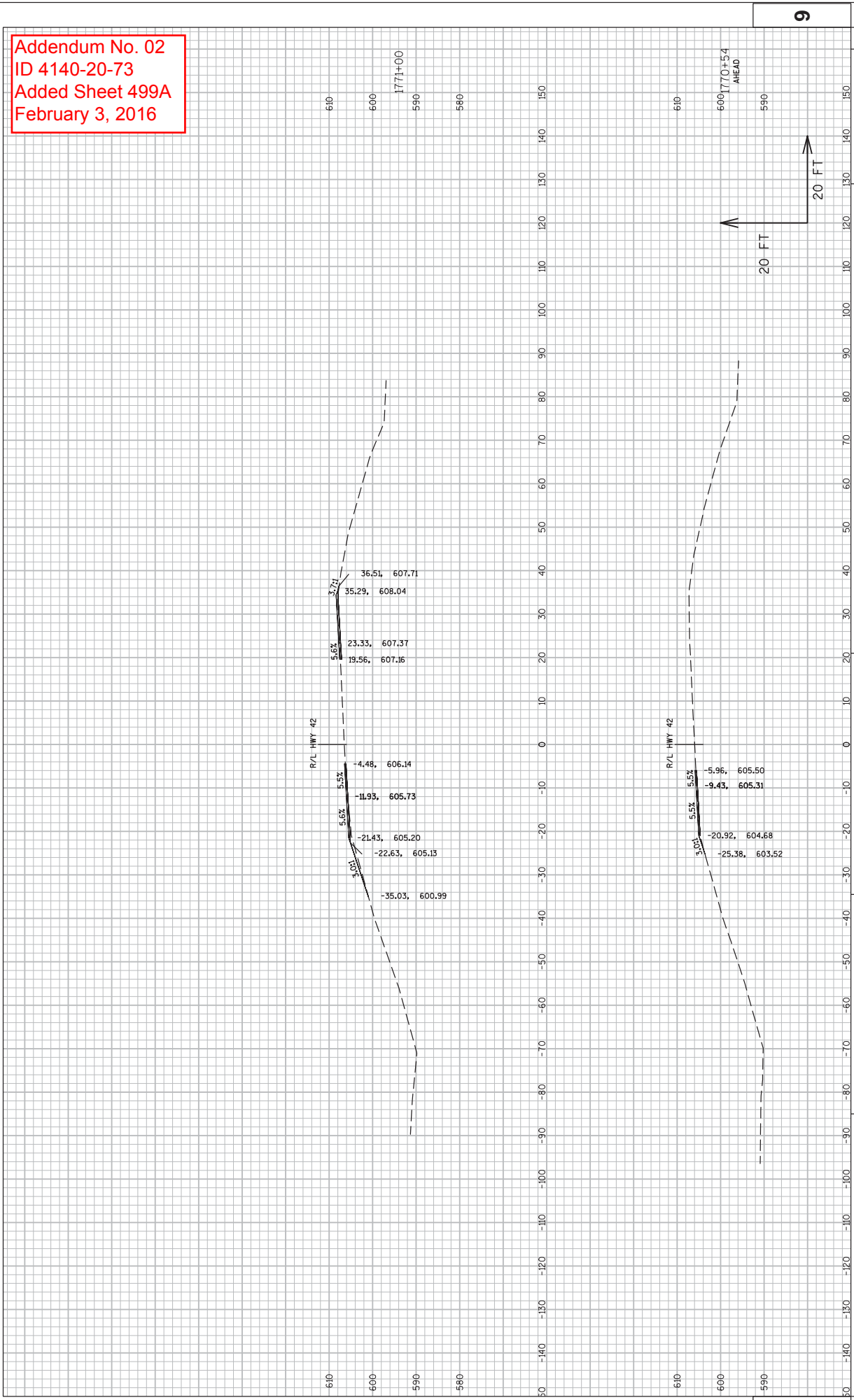


Addendum No. 02
ID 4140-20-73
Added Sheet 249N
February 3, 2016

MIDWEST GUARDRAIL SYSTEM THREE BEAM TRANSITION (MGS)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED June, 2015
DATE /S/ Jeffrey H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FWHA

249N

Addendum No. 02
 ID 4140-20-73
 Added Sheet 499A
 February 3, 2016



9

20 FT 20 FT

610 600 590 580

1771+00

610 600 590 580

600+770+54
AHEAD

SHEET **499A** **E**

CROSS SECTIONS: CROSS SECTIONS:

COUNTY: DOOR

HWY: STH 42

PROJECT NO: 4140-20-73

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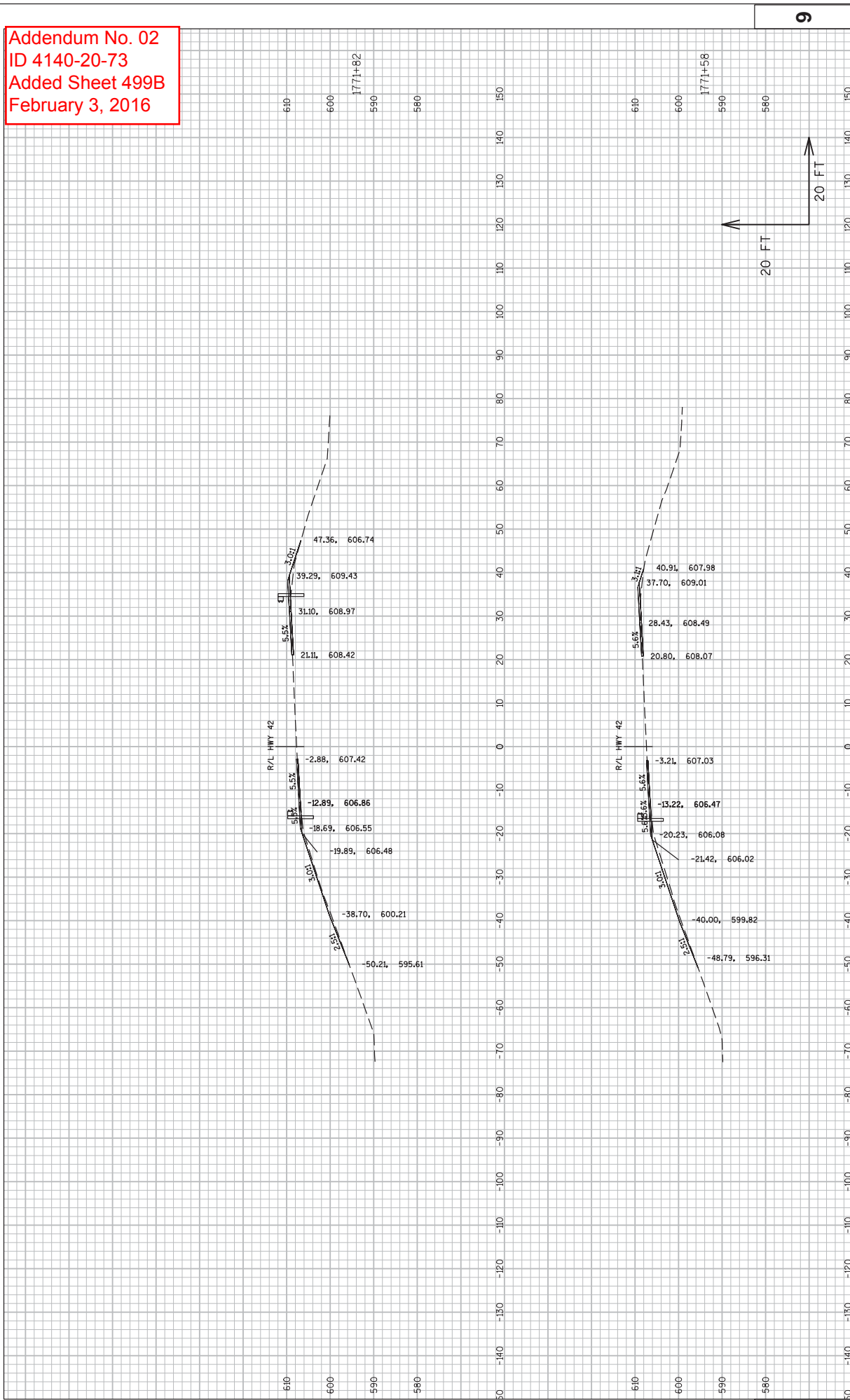
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WISDOT/CADD SHEET 49

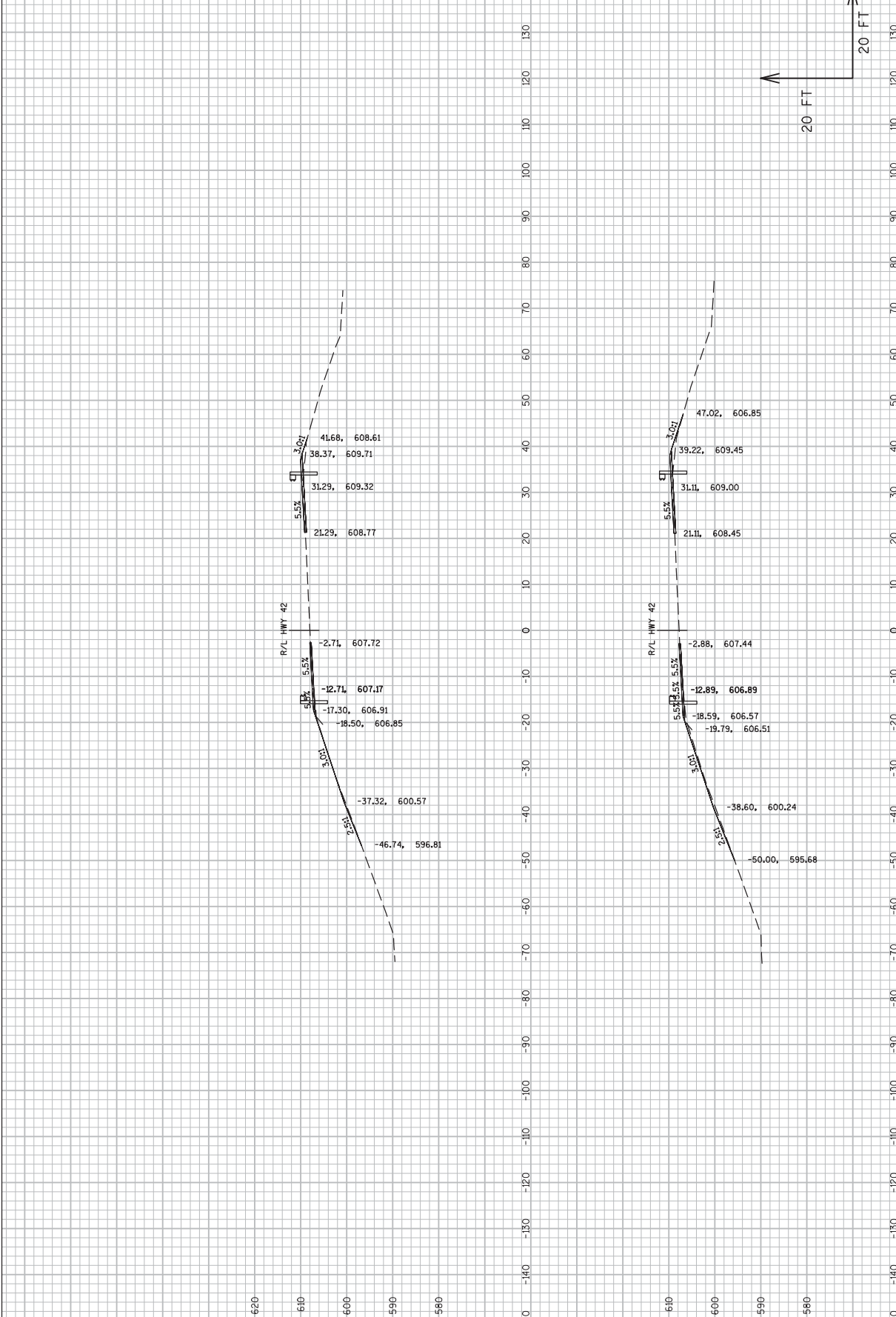
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Addendum No. 02
 ID 4140-20-73
 Added Sheet 499B
 February 3, 2016



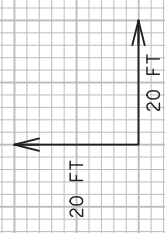
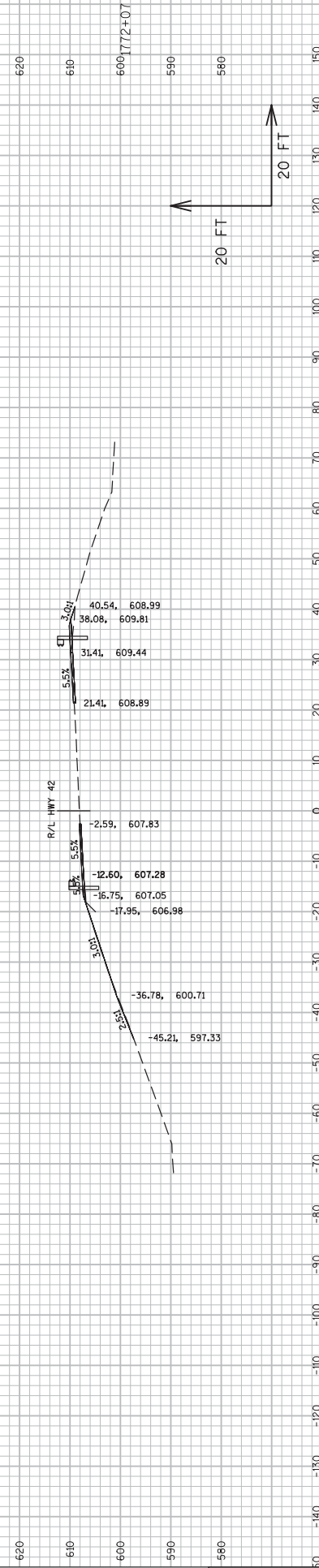
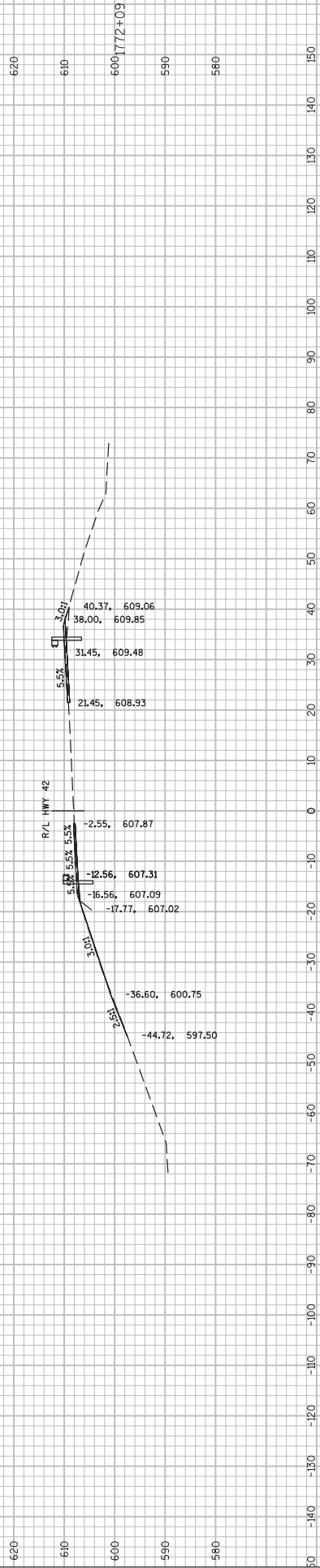
Addendum No. 02
 ID 4140-20-73
 Added Sheet 499C
 February 3, 2016



PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 SOUTH
 SHEET 499C
 E

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 WISDOT/CADD SHEET 49

Addendum No. 02
 ID 4140-20-73
 Added Sheet 499D
 February 3, 2016



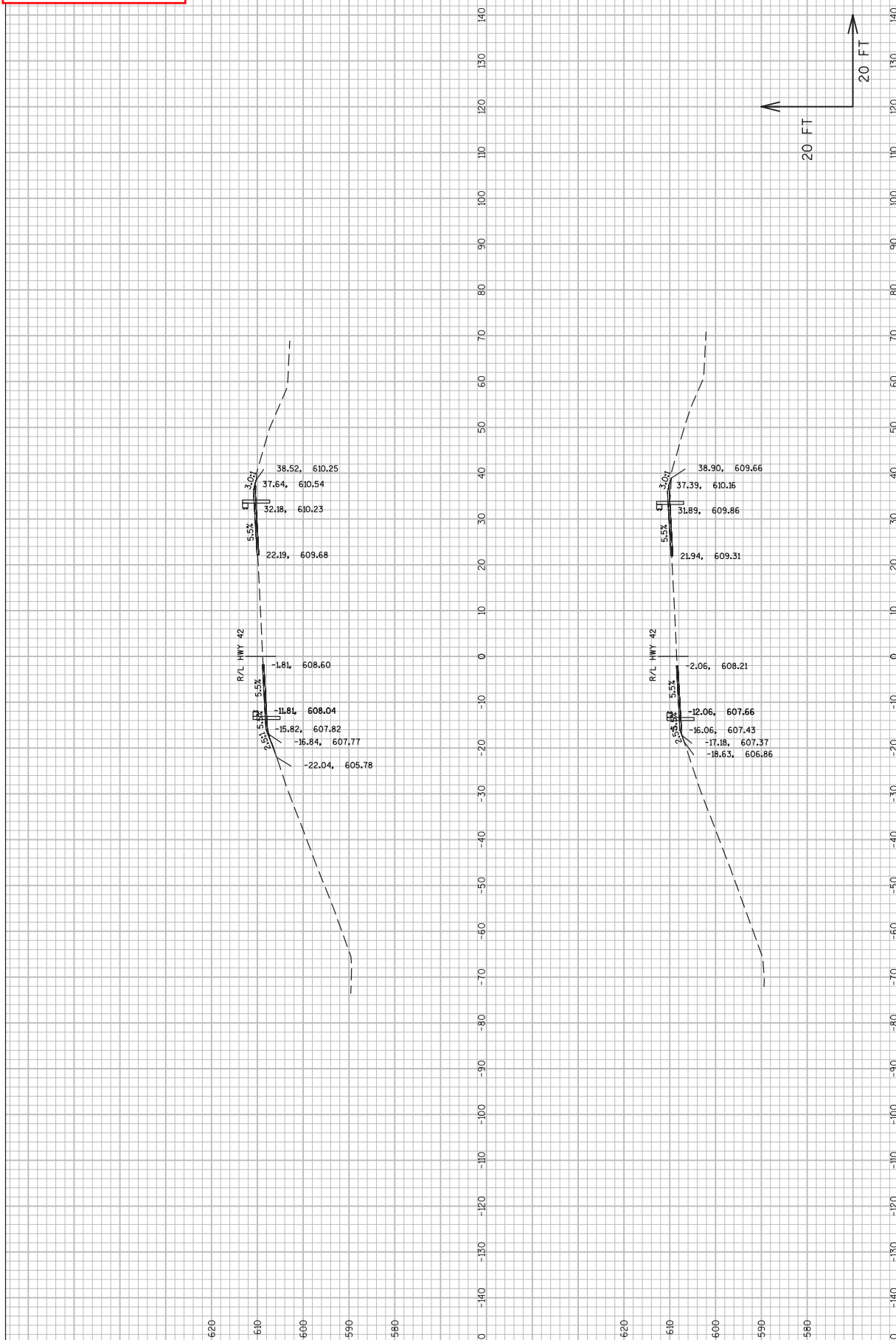
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PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 SOUTH
 SHEET 499D
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 WISDOT/CADD SHEET 49

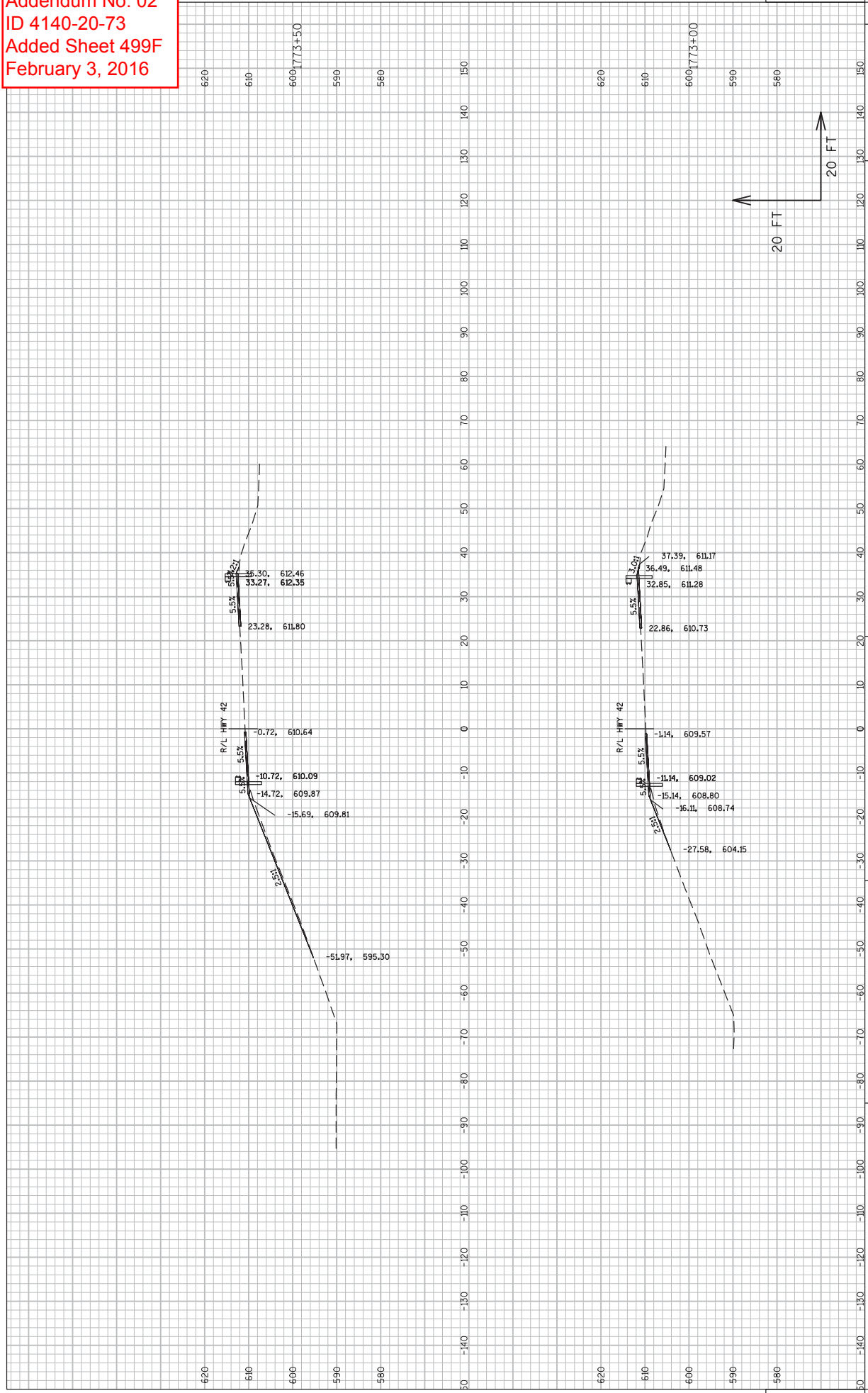
Addendum No. 02
 ID 4140-20-73
 Added Sheet 499E
 February 3, 2016



PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 SOUTH
 SHEET 499E
 E

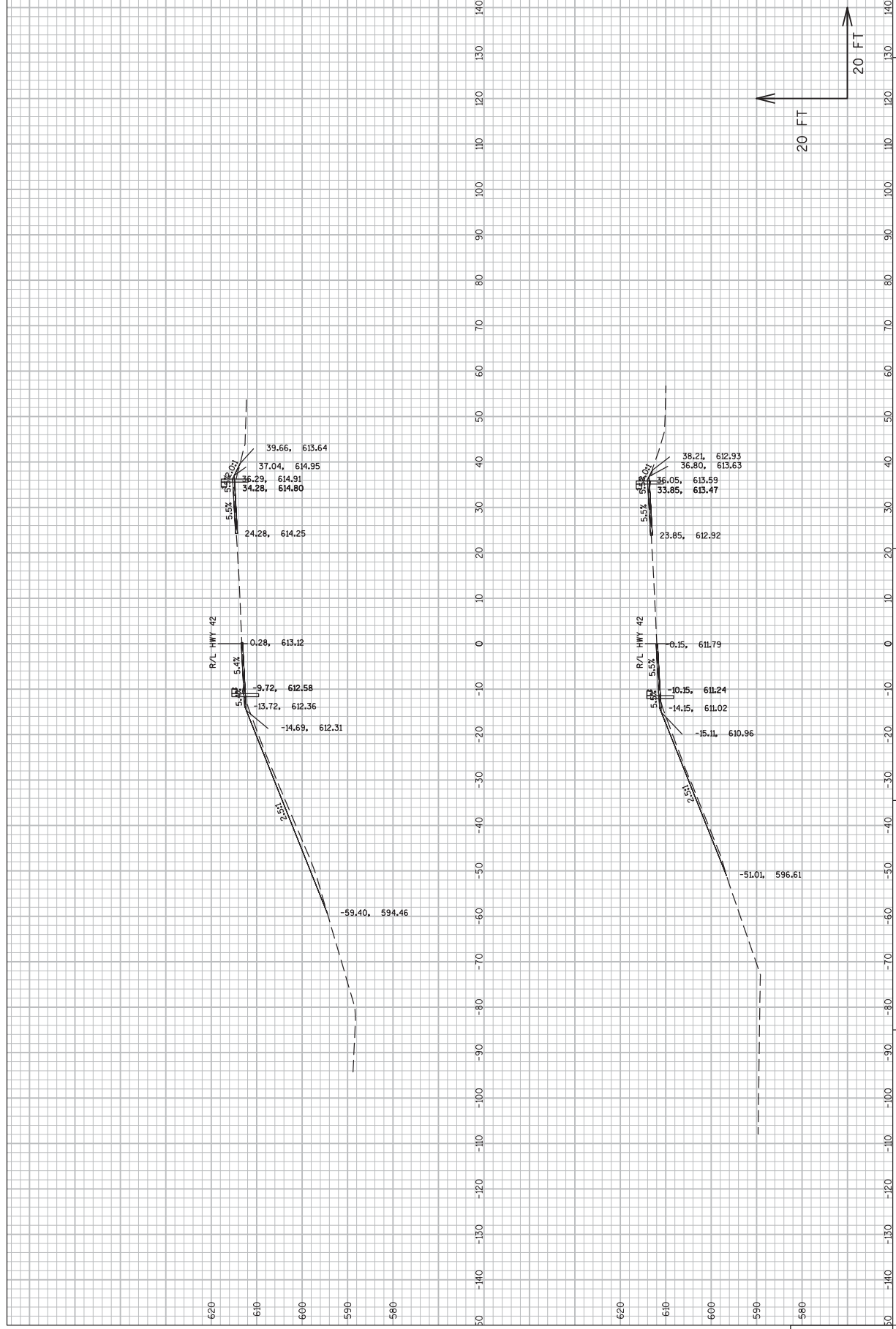
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 WISDOT/CADD SHEET 49

Addendum No. 02
 ID 4140-20-73
 Added Sheet 499F
 February 3, 2016



PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 SOUTH
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 WISDOT/CADD SHEET 49

Addendum No. 02
 ID 4140-20-73
 Added Sheet 499G
 February 3, 2016



PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 SOUTH
 SHEET 499G
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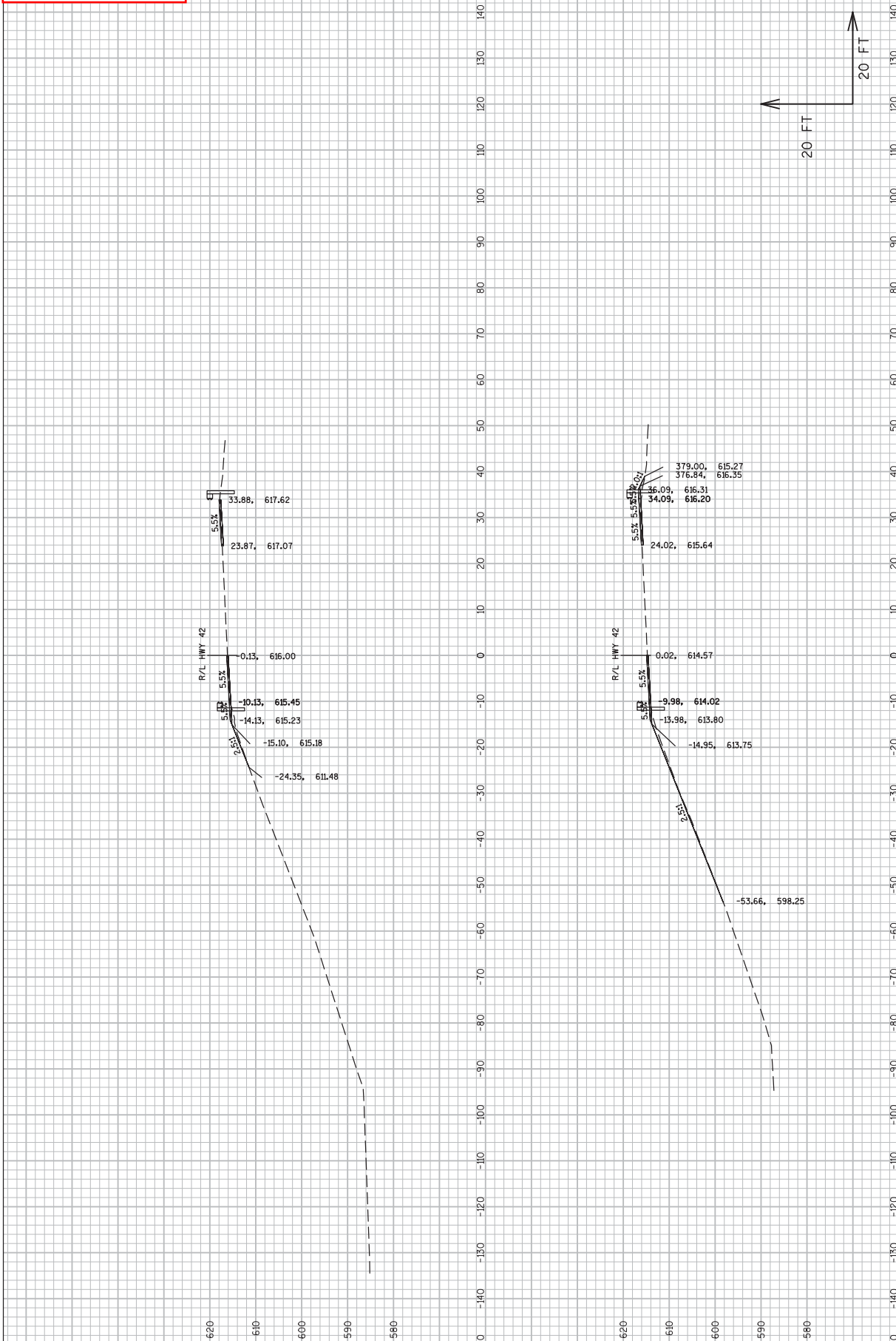
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WISDOT/CADD SHEET 49

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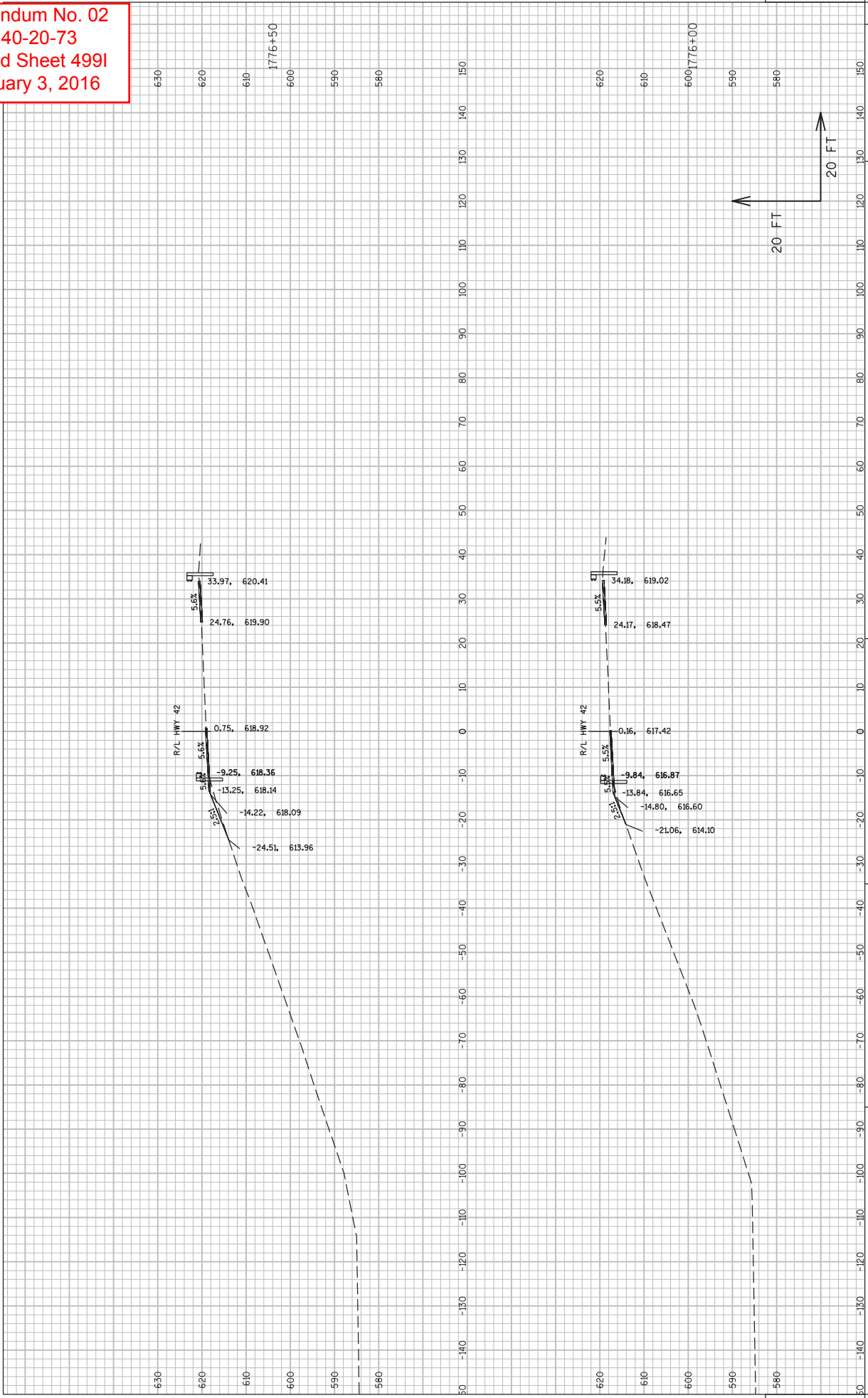
Addendum No. 02
 ID 4140-20-73
 Added Sheet 499H
 February 3, 2016



PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 SOUTH
 SHEET 499H
 E

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Addendum No. 02
 ID 4140-20-73
 Added Sheet 499I
 February 3, 2016



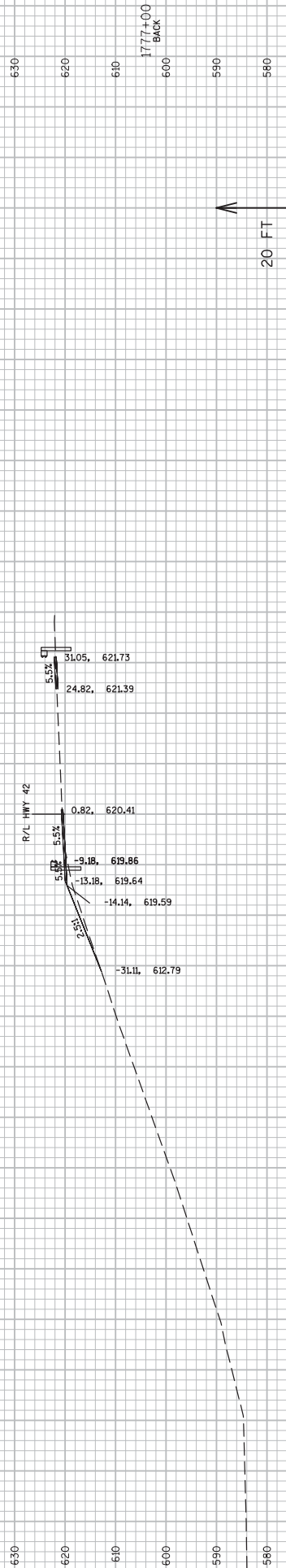
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 CROSS SECTIONS: STH 42 & 57 SOUTH
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Addendum No. 02
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 February 3, 2016



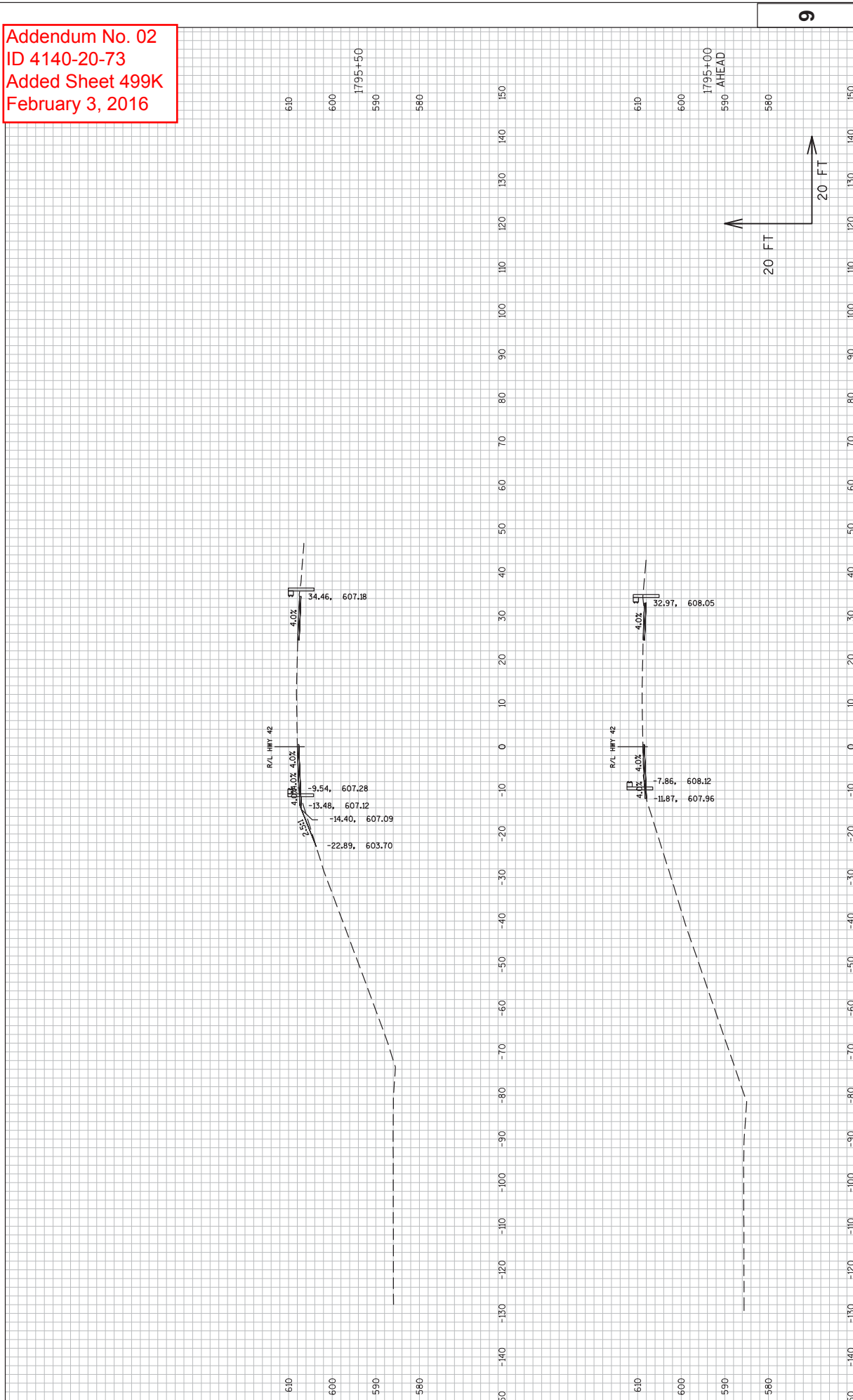
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PROJECT NO: 4140-20-73
 HWY: STH 42
 COUNTY: DOOR
 CROSS SECTIONS: STH 42 & 57 SOUTH
 SHEET 499J
 E

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 PLOT NAME :
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 WISDOT/CADD SHEET 49

Addendum No. 02
 ID 4140-20-73
 Added Sheet 499K
 February 3, 2016



PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 NORTH
 SHEET 499K
 E

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 PLOT NAME :

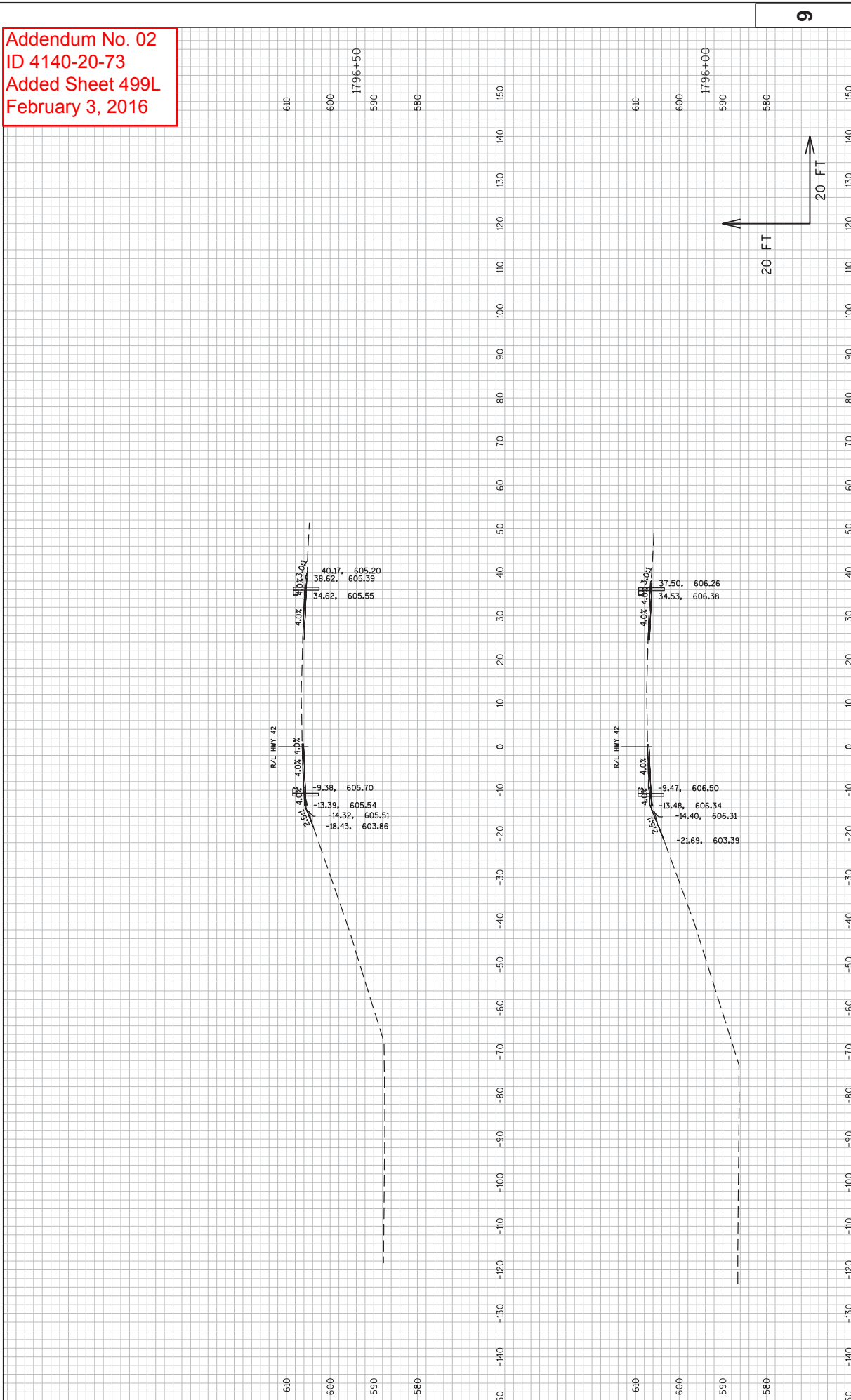
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WISDOT/CADD SHEET 49

9

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Addendum No. 02
 ID 4140-20-73
 Added Sheet 499L
 February 3, 2016



9

PROJECT NO: 4140-20-73

HWY: STH 42

COUNTY: DOOR

CROSS SECTIONS: STH 42 & 57 NORTH

SHEET 499L

E

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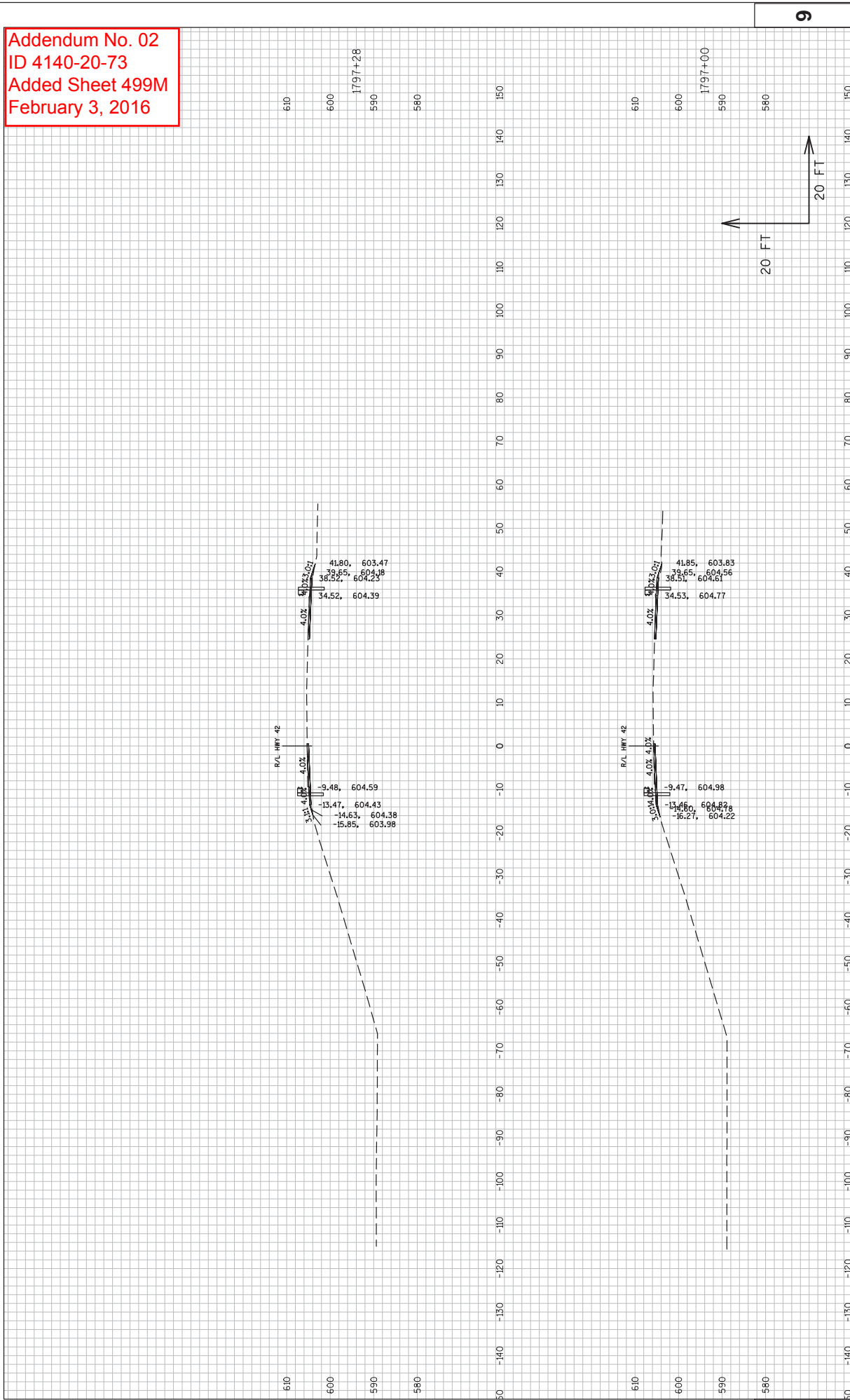
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PLOT NAME :

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WISDOT/CADD SHEET 49

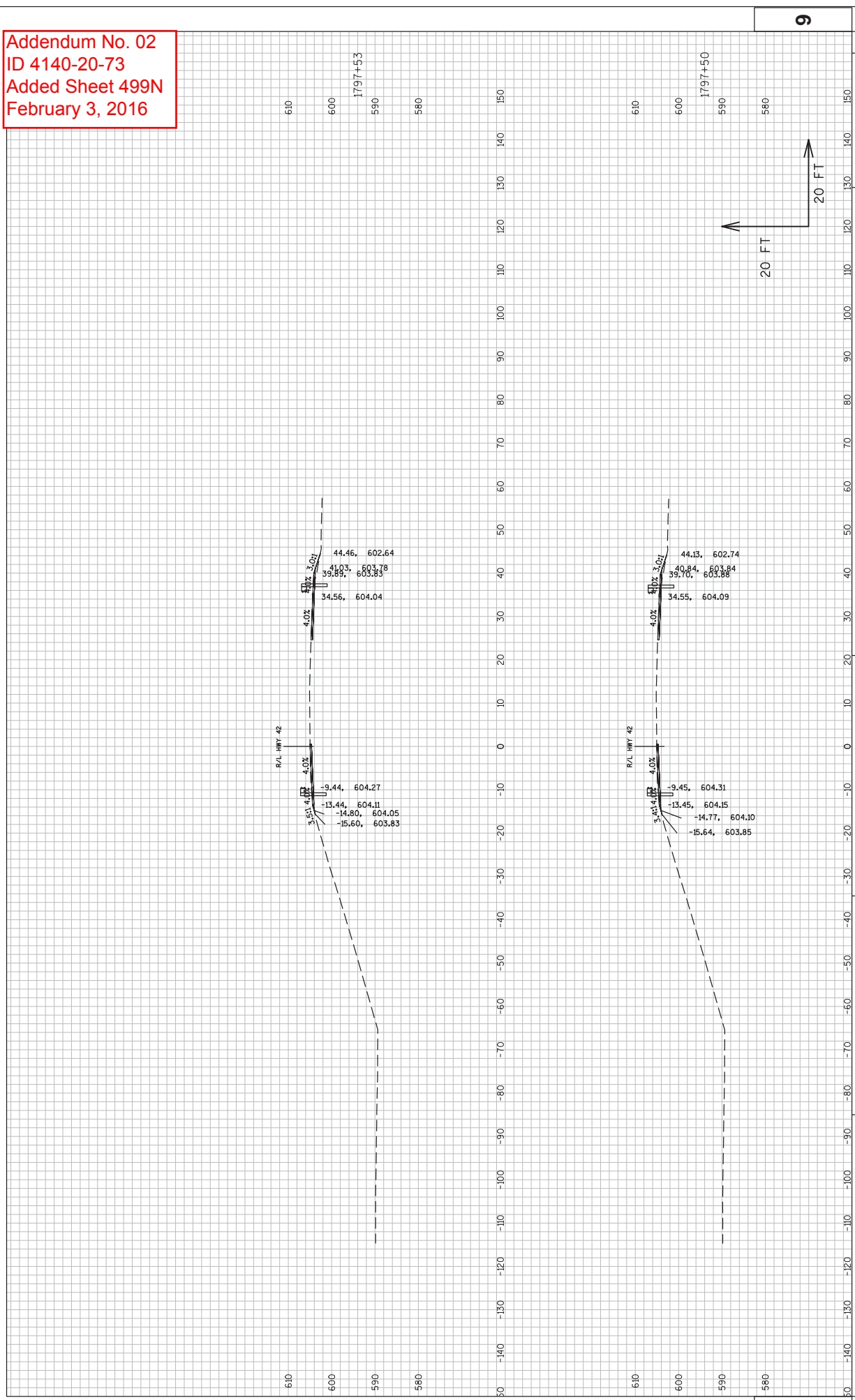
Addendum No. 02
 ID 4140-20-73
 Added Sheet 499M
 February 3, 2016



PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 NORTH
 SHEET 499M
 E

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 WISDOT/CADD SHEET 49

Addendum No. 02
 ID 4140-20-73
 Added Sheet 499N
 February 3, 2016



9

20 FT

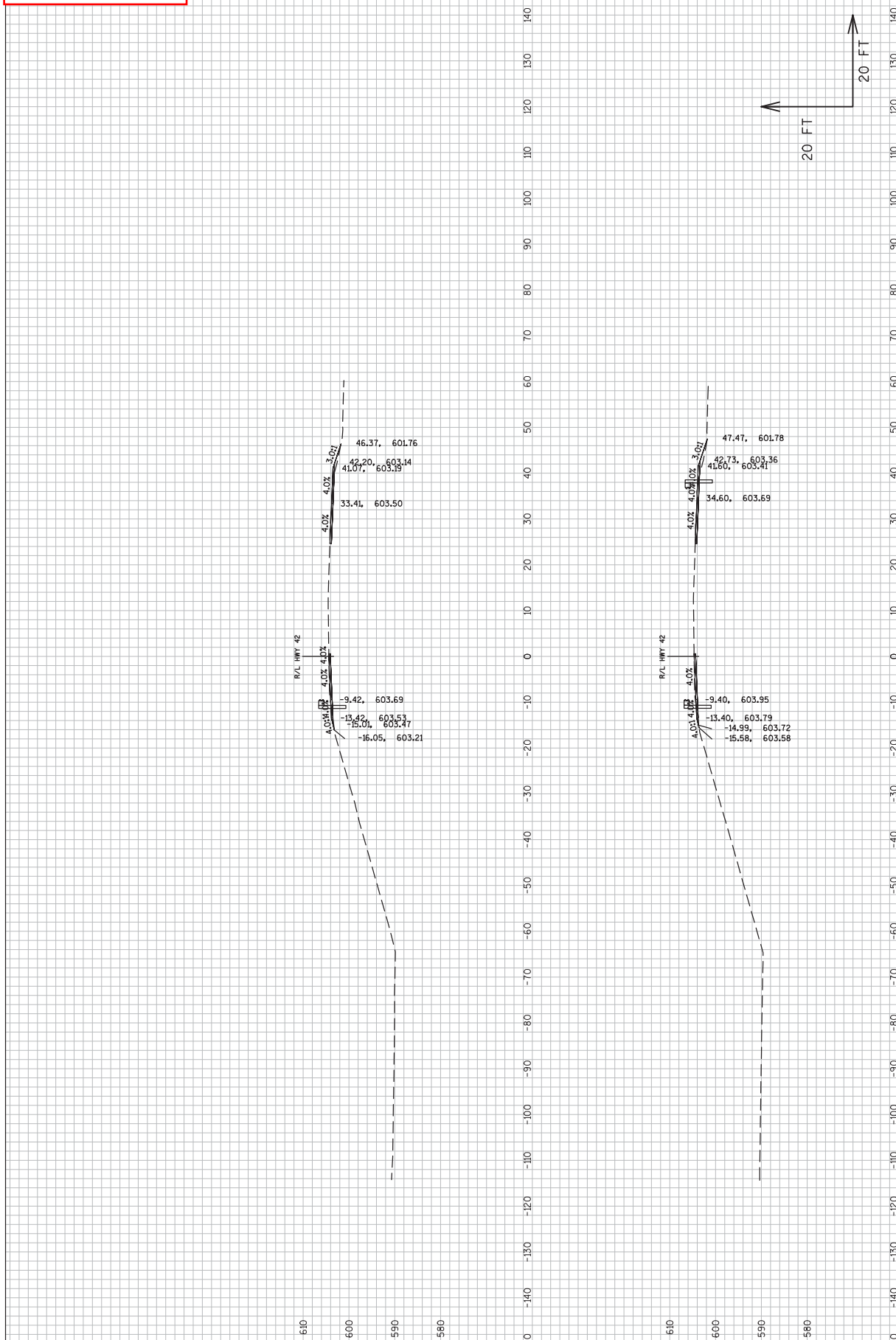
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PROJECT NO: 4140-20-73
 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 NORTH
 SHEET 499N
 E

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 WISDOT/CADD SHEET 49

Addendum No. 02
 ID 4140-20-73
 Added Sheet 4990
 February 3, 2016



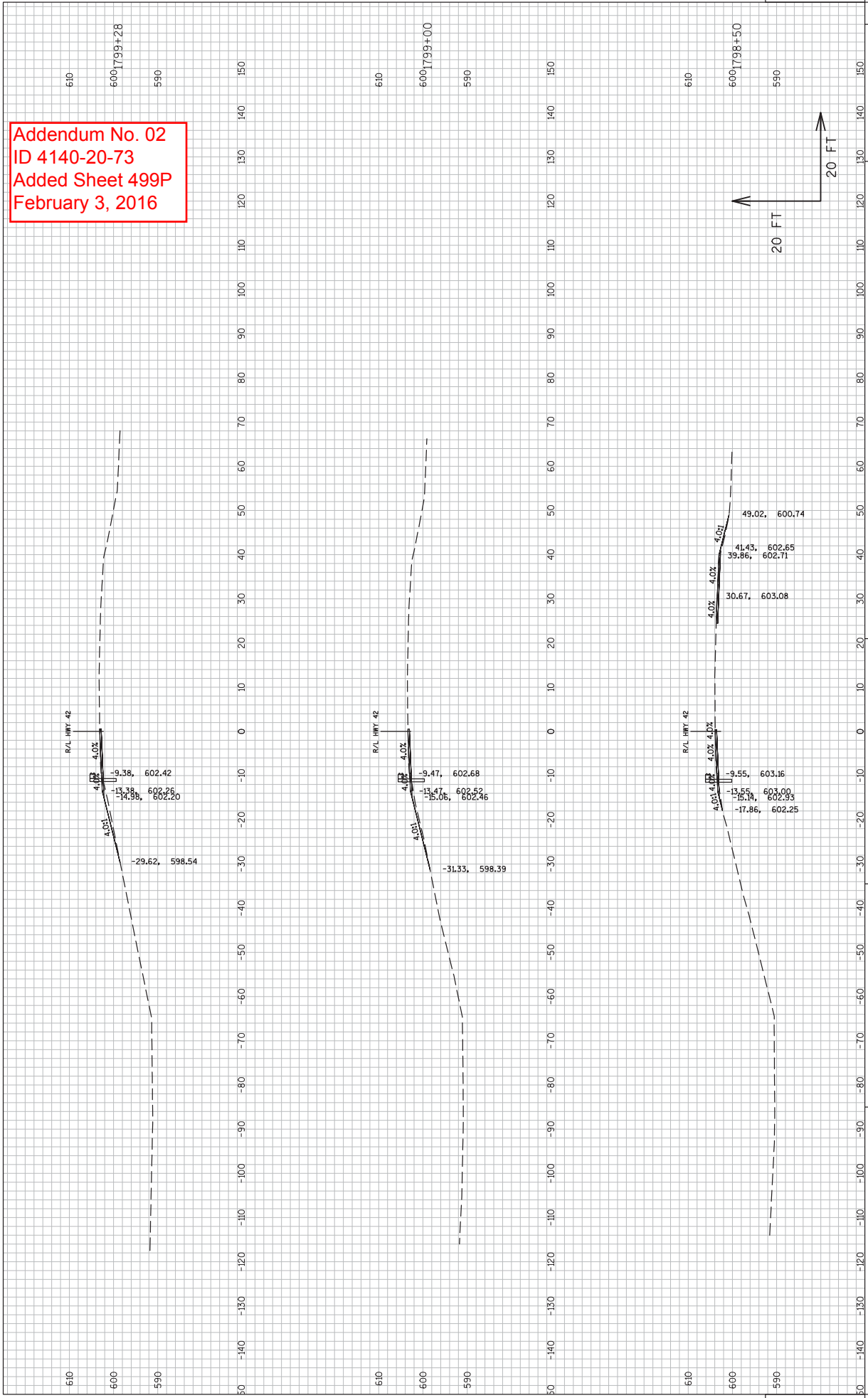
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 COUNTY: DOOR
 HWY: STH 42
 CROSS SECTIONS: STH 42 & 57 NORTH
 SHEET 4990
 E

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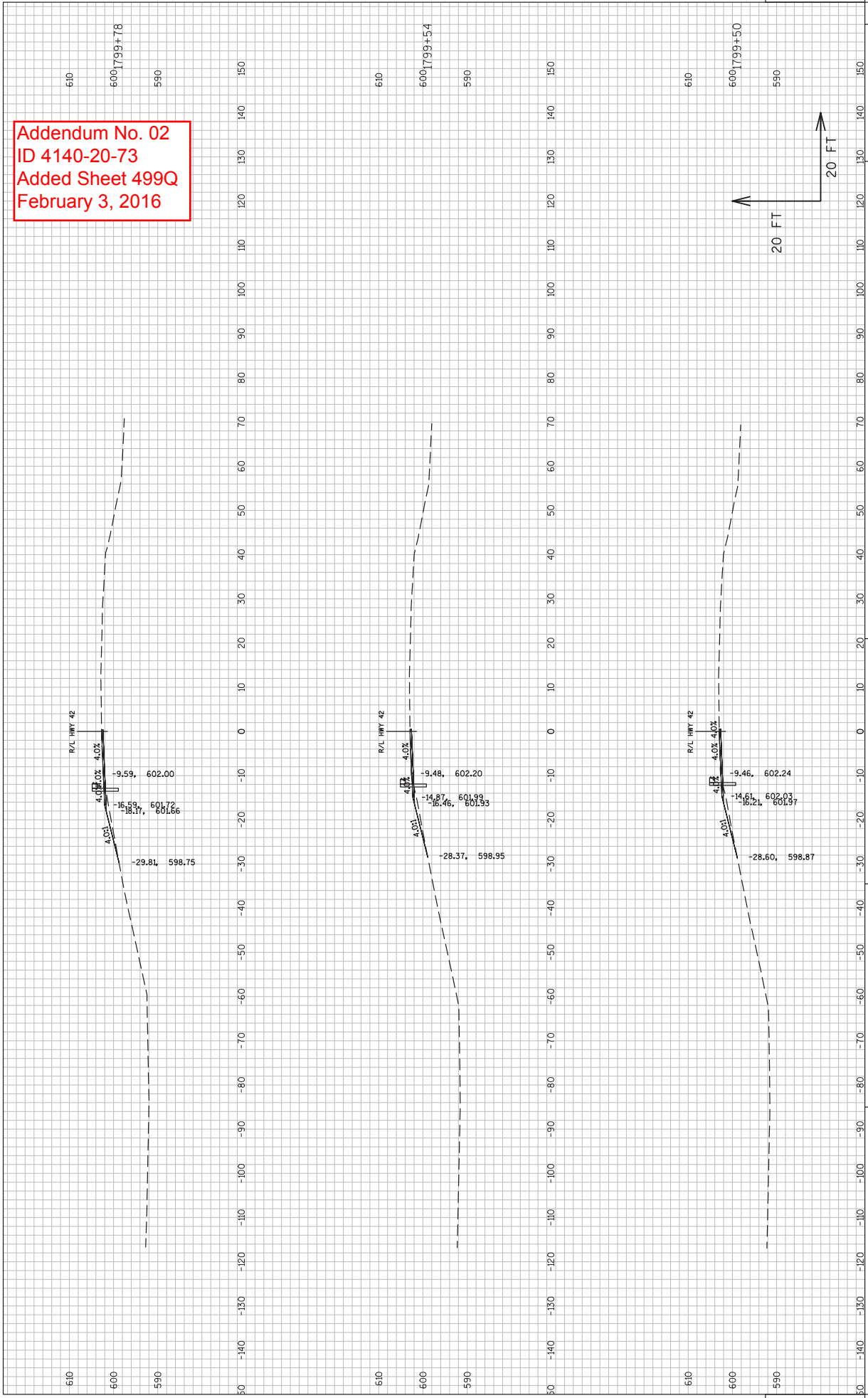
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Addendum No. 02
 ID 4140-20-73
 Added Sheet 499P
 February 3, 2016



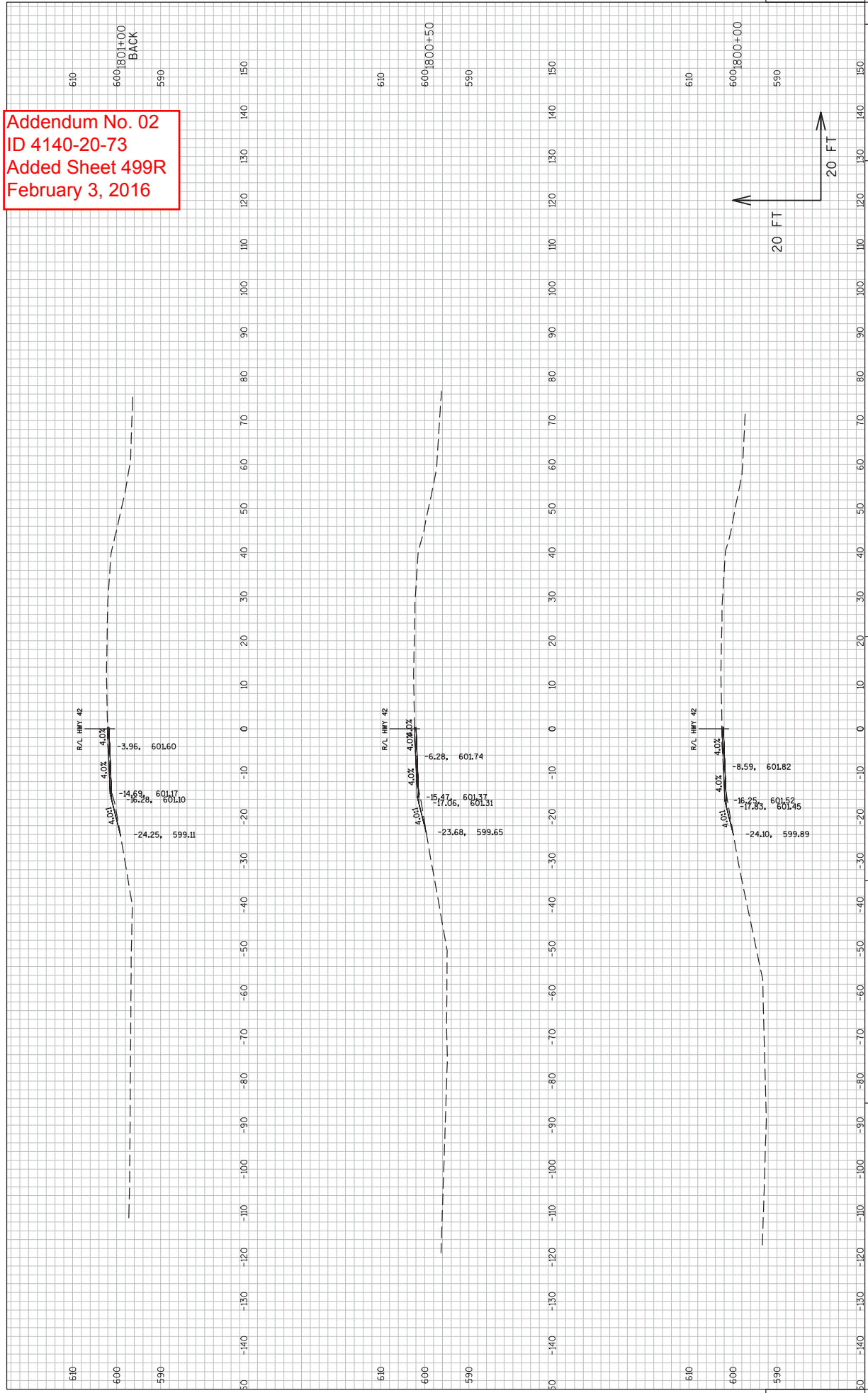
Addendum No. 02
 ID 4140-20-73
 Added Sheet 499Q
 February 3, 2016



9

9

Addendum No. 02
 ID 4140-20-73
 Added Sheet 499R
 February 3, 2016



9

9

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018

PROJECT(S):
4140-20-73

FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 Contract Items

0010	203.0100 Removing Small Pipe Culverts	10.000 EACH	.	.	.	.
0020	204.0100 Removing Pavement	33,975.000 SY	.	.	.	.
0030	204.0120 Removing Asphaltic Surface Milling	24,505.000 SY	.	.	.	.
0040	204.0150 Removing Curb & Gutter	1,344.000 LF	.	.	.	.
0050	204.0155 Removing Concrete Sidewalk	735.000 SY	.	.	.	.
0060	204.0165 Removing Guardrail	1,907.000 LF	.	.	.	.
0070	204.0180 Removing Delineators and Markers	7.000 EACH	.	.	.	.
0080	204.0195 Removing Concrete Bases	13.000 EACH	.	.	.	.
0090	204.0220 Removing Inlets	10.000 EACH	.	.	.	.
0100	204.0245 Removing Storm Sewer (size) 01. 12-INCH	132.000 LF	.	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	204.0245 Removing Storm Sewer (size) 02. 18-INCH	164.000 LF	.	.	.	.
0120	204.9060.S Removing (item description) 01. Removing Endwall 24-INCH	2.000 EACH	.	.	.	.
0130	204.9060.S Removing (item description) 02. Removing Endwall 36-INCH	1.000 EACH	.	.	.	.
0140	205.0100 Excavation Common	40,979.000 CY	.	.	.	.
0150	213.0100 Finishing Roadway (project) 01. 4140-20-73	1.000 EACH	.	.	.	.
0160	214.0100 Obliterating Old Road	7.300 STA	.	.	.	.
0170	305.0110 Base Aggregate Dense 3/4-Inch	2,254.000 TON	.	.	.	.
0180	305.0120 Base Aggregate Dense 1 1/4-Inch	34,078.000 TON	.	.	.	.
0190	405.0100 Coloring Concrete Red	480.000 CY	.	.	.	.
0200	415.0090 Concrete Pavement 9-Inch	43,685.000 SY	.	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0210	415.0210 Concrete Pavement Gaps	2.000 EACH	.		.	
0220	415.1090 Concrete Pavement HES 9-Inch	295.000 SY	.		.	
0230	416.0160 Concrete Driveway 6-Inch	108.000 SY	.		.	
0240	416.0512 Concrete Roundabout Truck Apron 12-Inch	864.000 SY	.		.	
0250	416.0610 Drilled Tie Bars	34.000 EACH	.		.	
0260	416.0620 Drilled Dowel Bars	48.000 EACH	.		.	
0270	416.1010 Concrete Surface Drains	31.000 CY	.		.	
0280	416.1110 Concrete Shoulder Rumble Strips	14,208.000 LF	.		.	
0290	440.4410 Incentive IRI Ride	8,234.000 DOL	1.00000		8234.00	
0300	455.0105 Asphaltic Material PG58-28	367.000 TON	.		.	
0310	455.0605 Tack Coat	1,837.000 GAL	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0320	460.1100 HMA Pavement Type E-0.3	1,502.000 TON	.	.	.	.
0330	460.1101 HMA Pavement Type E-1	1,933.000 TON	.	.	.	.
0340	460.2000 Incentive Density HMA Pavement	4,180.000 DOL	1.00000	.	4180.00	.
0350	465.0105 Asphaltic Surface	22.000 TON	.	.	.	.
0360	465.0120 Asphaltic Surface Driveways and Field Entrances	30.000 TON	.	.	.	.
0370	465.0125 Asphaltic Surface Temporary	77.000 TON	.	.	.	.
0380	521.1012 Apron Endwalls for Culvert Pipe Steel 12-Inch	1.000 EACH	.	.	.	.
0390	521.1015 Apron Endwalls for Culvert Pipe Steel 15-Inch	1.000 EACH	.	.	.	.
0400	521.1024 Apron Endwalls for Culvert Pipe Steel 24-Inch	1.000 EACH	.	.	.	.
0410	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	16.000 EACH	.	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0420	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH 5.000	.		.	
0430	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH 1.000	.		.	
0440	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH 6.000	.		.	
0450	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH 3.000	.		.	
0460	530.0124 Culvert Pipe Corrugated Polyethylene 24-Inch	LF 17.000	.		.	
0470	601.0405 Concrete Curb & Gutter 18-Inch Type A	LF 560.000	.		.	
0480	601.0409 Concrete Curb & Gutter 30-Inch Type A	LF 5,324.000	.		.	
0490	601.0415 Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF 435.000	.		.	
0500	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF 6,660.000	.		.	
0510	601.0557 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF 330.000	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0520	601.0580 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	740.000 LF	.	.	.	.
0530	601.0600 Concrete Curb Pedestrian	440.000 LF	.	.	.	.
0540	602.0410 Concrete Sidewalk 5-Inch	35,720.000 SF	.	.	.	.
0550	602.0515 Curb Ramp Detectable Warning Field Natural Patina	448.000 SF	.	.	.	.
0560	606.0200 Riprap Medium	173.000 CY	.	.	.	.
0570	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	1,796.000 LF	.	.	.	.
0580	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	177.000 LF	.	.	.	.
0590	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	34.000 LF	.	.	.	.
0600	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	139.000 LF	.	.	.	.
0610	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	163.000 LF	.	.	.	.
0620	611.0600 Inlet Covers Type A	6.000 EACH	.	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0630	611.0624 Inlet Covers Type H	23.000 EACH	.		.	
0640	611.0627 Inlet Covers Type HM	20.000 EACH	.		.	
0650	611.0630 Inlet Covers Type HM-GJ	1.000 EACH	.		.	
0660	611.0652 Inlet Covers Type T	4.000 EACH	.		.	
0670	611.0666 Inlet Covers Type Z	4.000 EACH	.		.	
0680	611.1006 Catch Basins 6-FT Diameter	1.000 EACH	.		.	
0690	611.3003 Inlets 3-FT Diameter	10.000 EACH	.		.	
0700	611.3004 Inlets 4-FT Diameter	18.000 EACH	.		.	
0710	611.3230 Inlets 2x3-FT	25.000 EACH	.		.	
0720	611.8110 Adjusting Manhole Covers	1.000 EACH	.		.	
0730	611.8115 Adjusting Inlet Covers	5.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0740	618.0100 Maintenance And Repair of Haul Roads (project) 01. 4140-20-73	1.000 EACH	.		.	
0750	619.1000 Mobilization	1.000 EACH	.		.	
0760	620.0100 Concrete Corrugated Median	2,000.000 SF	.		.	
0770	620.0300 Concrete Median Sloped Nose	1,764.000 SF	.		.	
0780	624.0100 Water	1,800.000 MGAL	.		.	
0790	625.0100 Topsoil	45,825.000 SY	.		.	
0800	625.0500 Salvaged Topsoil	27,395.000 SY	.		.	
0810	627.0200 Mulching	62,460.000 SY	.		.	
0820	628.1504 Silt Fence	13,890.000 LF	.		.	
0830	628.1520 Silt Fence Maintenance	11,350.000 LF	.		.	
0840	628.1905 Mobilizations Erosion Control	3.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0850	628.1910 Mobilizations Emergency Erosion Control	6.000 EACH	.	.	.	.
0860	628.2004 Erosion Mat Class I Type B	240.000 SY	.	.	.	.
0870	628.2008 Erosion Mat Urban Class I Type B	10,520.000 SY	.	.	.	.
0880	628.7005 Inlet Protection Type A	58.000 EACH	.	.	.	.
0890	628.7015 Inlet Protection Type C	77.000 EACH	.	.	.	.
0900	628.7504 Temporary Ditch Checks	1,030.000 LF	.	.	.	.
0910	628.7555 Culvert Pipe Checks	115.000 EACH	.	.	.	.
0920	628.7560 Tracking Pads	5.000 EACH	.	.	.	.
0930	629.0210 Fertilizer Type B	55.100 CWT	.	.	.	.
0940	630.0110 Seeding Mixture No. 10	510.000 LB	.	.	.	.
0950	630.0130 Seeding Mixture No. 30	875.000 LB	.	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0960	630.0140 Seeding Mixture No. 40	5.000 LB	.	.	.	.
0970	630.0200 Seeding Temporary	2,330.000 LB	.	.	.	.
0980	632.0101 Trees (species) (size) (root) 01. Crabapple, Prairifire, B&B, 2" Cal.	12.000 EACH	.	.	.	.
0990	632.0201 Shrubs (species) (size) (root) 01. Spirea, Anthony Waterer, CG, 1.5' Ht	76.000 EACH	.	.	.	.
1000	632.9101 Landscape Planting Surveillance and Care Cycles	20.000 EACH	.	.	.	.
1010	633.1100 Delineators Temporary	80.000 EACH	.	.	.	.
1020	633.5200 Markers Culvert End	38.000 EACH	.	.	.	.
1030	634.0614 Posts Wood 4x6-Inch X 14-FT	92.000 EACH	.	.	.	.
1040	634.0616 Posts Wood 4x6-Inch X 16-FT	58.000 EACH	.	.	.	.
1050	634.0618 Posts Wood 4x6-Inch X 18-FT	4.000 EACH	.	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1060	637.2210 Signs Type II Reflective H	1,575.190 SF	.	.	.	.
1070	637.2230 Signs Type II Reflective F	131.750 SF	.	.	.	.
1080	638.2601 Removing Signs Type I	1.000 EACH	.	.	.	.
1090	638.2602 Removing Signs Type II	99.000 EACH	.	.	.	.
1100	638.3000 Removing Small Sign Supports	105.000 EACH	.	.	.	.
1110	641.8100 Overhead Sign Support (structure) 01. S-15-15	LUMP	LUMP	.	.	.
1120	641.8100 Overhead Sign Support (structure) 02. S-15-16	LUMP	LUMP	.	.	.
1130	641.8100 Overhead Sign Support (structure) 03. S-15-17	LUMP	LUMP	.	.	.
1140	641.8100 Overhead Sign Support (structure) 04. S-15-18	LUMP	LUMP	.	.	.
1150	642.5401 Field Office Type D	1.000 EACH	.	.	.	.
1160	643.0100 Traffic Control (project) 01. 4140-20-73	1.000 EACH	.	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1170	643.0300 Traffic Control Drums	15,135.000 DAY	.	.	.	.
1180	643.0420 Traffic Control Barricades Type III	8,112.000 DAY	.	.	.	.
1190	643.0705 Traffic Control Warning Lights Type A	10,464.000 DAY	.	.	.	.
1200	643.0715 Traffic Control Warning Lights Type C	4,620.000 DAY	.	.	.	.
1210	643.0900 Traffic Control Signs	6,281.000 DAY	.	.	.	.
1220	643.0920 Traffic Control Covering Signs Type II	4.000 EACH	.	.	.	.
1230	643.1050 Traffic Control Signs PCMS	21.000 DAY	.	.	.	.
1240	645.0120 Geotextile Fabric Type HR	743.000 SY	.	.	.	.
1250	646.0106 Pavement Marking Epoxy 4-Inch	72,654.000 LF	.	.	.	.
1260	646.0116 Pavement Marking Epoxy 6-Inch	655.000 LF	.	.	.	.
1270	646.0126 Pavement Marking Epoxy 8-Inch	2,942.000 LF	.	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1280	646.0600 Removing Pavement Markings	950.000 LF	.	.	.	.
1290	646.0841.S Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	495.000 LF	.	.	.	.
1300	646.0843.S Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	1,565.000 LF	.	.	.	.
1310	647.0206 Pavement Marking Arrows Bike Lane Epoxy	2.000 EACH	.	.	.	.
1320	647.0306 Pavement Marking Symbols Bike Lane Epoxy	2.000 EACH	.	.	.	.
1330	647.0456 Pavement Marking Curb Epoxy	145.000 LF	.	.	.	.
1340	647.0566 Pavement Marking Stop Line Epoxy 18-Inch	42.000 LF	.	.	.	.
1350	647.0606 Pavement Marking Island Nose Epoxy	16.000 EACH	.	.	.	.
1360	647.0726 Pavement Marking Diagonal Epoxy 12-Inch	685.000 LF	.	.	.	.
1370	648.0100 Locating No-Passing Zones	0.890 MI	.	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1380	649.0400 Temporary Pavement Marking Removable Tape 4-Inch	2,200.000 LF	.		.	
1390	649.0403 Temporary Pavement Marking Epoxy 4-Inch	8,250.000 LF	.		.	
1400	649.2100 Temporary Raised Pavement Markers	45.000 EACH	.		.	
1410	650.4000 Construction Staking Storm Sewer	91.000 EACH	.		.	
1420	650.4500 Construction Staking Subgrade	11,720.000 LF	.		.	
1430	650.5000 Construction Staking Base	1,299.000 LF	.		.	
1440	650.5500 Construction Staking Curb Gutter and Curb & Gutter	765.000 LF	.		.	
1450	650.7000 Construction Staking Concrete Pavement	10,421.000 LF	.		.	
1460	650.8500 Construction Staking Electrical Installations (project) 01. 4140-20-73	LUMP	LUMP		.	
1470	650.9910 Construction Staking Supplemental Control (project) 01. 4140-20-73	LUMP	LUMP		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1480	650.9920 Construction Staking Slope Stakes	10,460.000 LF	.	.	.	.
1490	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	2,190.000 LF	.	.	.	.
1500	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	60.000 LF	.	.	.	.
1510	653.0140 Pull Boxes Steel 24x42-Inch	20.000 EACH	.	.	.	.
1520	654.0105 Concrete Bases Type 5	19.000 EACH	.	.	.	.
1530	654.0224 Concrete Control Cabinet Bases Type L24	2.000 EACH	.	.	.	.
1540	655.0610 Electrical Wire Lighting 12 AWG	2,850.000 LF	.	.	.	.
1550	655.0615 Electrical Wire Lighting 10 AWG	12,390.000 LF	.	.	.	.
1560	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. STH 42/57 & Michigan St.	LUMP	LUMP	.	.	.
1570	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. STH 42/57 & Egg Harbor	LUMP	LUMP	.	.	.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1580	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	19.000 EACH	.		.	
1590	657.0322 Poles Type 5-Aluminum	19.000 EACH	.		.	
1600	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	19.000 EACH	.		.	
1610	659.1115 Luminaires Utility LED A	19.000 EACH	.		.	
1620	659.2124 Lighting Control Cabinets 120/240 24-Inch	2.000 EACH	.		.	
1630	690.0150 Sawing Asphalt	647.000 LF	.		.	
1640	690.0250 Sawing Concrete	613.000 LF	.		.	
1650	715.0415 Incentive Strength Concrete Pavement	13,105.000 DOL	1.00000		13105.00	
1660	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	2,400.000 HRS	5.00000		12000.00	
1670	ASP.1T0G On-the-Job Training Graduate at \$5. 00/HR	2,100.000 HRS	5.00000		10500.00	
1680	SPV.0035 Special 01. Coloring Concrete Tan	62.000 CY	.		.	

SCHEDULE OF ITEMS

REVISED:

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WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1690	SPV.0035 Special 02. Planting Soil Mix	240.000 CY	.		.	
1700	SPV.0060 Special 01. Pavement Marking Grooved Preformed Thermoplastic Words	8.000 EACH	.		.	
1710	SPV.0060 Special 02. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 1	7.000 EACH	.		.	
1720	SPV.0060 Special 03. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 2	1.000 EACH	.		.	
1730	SPV.0060 Special 04. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 3	7.000 EACH	.		.	
1740	SPV.0060 Special 05. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 3R	3.000 EACH	.		.	
1750	SPV.0060 Special 06. Inlets Type 2x2.5-FT Special	2.000 EACH	.		.	
1760	SPV.0060 Special 07. Inlets Type 4-FT Diameter Special	2.000 EACH	.		.	
1770	SPV.0060 Special 08. Adjusting Water Valve Box	3.000 EACH	.		.	
1780	SPV.0060 Special 09. Panel Base	20.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018PROJECT(S):
4140-20-73FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1790	SPV.0060 Special 10. Decorative Panel A	2.000 EACH	.		.	
1800	SPV.0060 Special 11. Decorative Panel B	4.000 EACH	.		.	
1810	SPV.0060 Special 12. Decorative Panel C	4.000 EACH	.		.	
1820	SPV.0060 Special 13. Perennial, Coneflower, Purple	322.000 EACH	.		.	
1830	SPV.0060 Special 14. Perennial, Switch Grass	144.000 EACH	.		.	
1840	SPV.0060 Special 15. Perennial, Prairie Dropseed	814.000 EACH	.		.	
1850	SPV.0075 Special 01. Street Sweeping	40.000 HRS	.		.	
1860	SPV.0090 Special 01. Pavement Marking Grooved Preformed Thermoplastic Yield Line 18-INCH	160.000 LF	.		.	
1870	SPV.0090 Special 02. Ditch Cleaning	240.000 LF	.		.	
1880	SPV.0105 Special 01. Removing Cantilever Sign Support S-15-02	LUMP		LUMP	.	
1890	SPV.0105 Special 02. Remove Traffic Signal	LUMP		LUMP	.	

SCHEDULE OF ITEMS

REVISED:

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1900	SPV.0105 Special 03. Concrete Pavement Joint Layout	LUMP	LUMP			.
1910	SPV.0165 Special 01. Stamping Concrete	4,022.000 SF		.		.
1920	SPV.0180 Special 01. Stone Mulch	188.000 SY		.		.
1930	204.0105 Removing Pavement Butt Joints	15.000 SY		.		.
1940	204.0115 Removing Asphaltic Surface Butt Joints	42.000 SY		.		.
1950	211.0100 Prepare Foundation for Asphaltic Paving (project) 01. 4140-20-73	LUMP	LUMP			.
1960	305.0500 Shaping Shoulders	40.000 STA		.		.
1970	416.0610 Drilled Tie Bars	16.000 EACH		.		.
1980	460.1103 HMA Pavement Type E-3	3,105.000 TON		.		.
1990	614.0010 Barrier System Grading Shaping Finishing	4.000 EACH		.		.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209018

PROJECT(S):
4140-20-73

FEDERAL ID(S):
WISC 2016022

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2000	614.0397 Guardrail Mow Strip Emulsified Asphalt	245.000 SY	.		.	
2010	614.2300 MGS Guardrail 3	1,537.500 LF	.		.	
2020	614.2500 MGS Thrie Beam Transition	156.000 LF	.		.	
2030	614.2610 MGS Guardrail Terminal EAT	4.000 EACH	.		.	
2040	628.7570 Rock Bags	48.000 EACH	.		.	
2050	650.8000 Construction Staking Resurfacing Reference	5,469.000 LF	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	