



Wisconsin Department of Transportation

Division of Transportation Systems Development

Bureau of Project Development
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December 5, 2019

NOTICE TO ALL CONTRACTORS:

**Proposal #37: 7540-01-72, WISC 2019 759
Fairchild – Black River Falls
Allen Creek B-27-0170
USH 12
Jackson County**

Letting of December 10, 2019

This is Addendum No. 01, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
6	Utilities

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
550.0020	Pre-Boring Rock or Consolidated Materials	LF	220	176	396

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
79, 80	Structure B-27-170 (Pre-Boring quantity change)

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

ADDENDUM NO. 01

7540-01-72

December 5, 2019

Special Provisions

6. Utilities

*Replace the paragraph beginning with **CenturyLink** with the following:*

CenturyLink has existing overhead utilities on shared poles that run parallel to USH 12 along the east side of the roadway within the right of way. CenturyLink will relocate these facilities after clearing and grubbing operations, but prior to construction by boring their utilities close to the eastern right of way. Additional coordination is required after clearing and grubbing operations are complete. Centurylink anticipates up to 15 working days to complete their relocation after clearing and grubbing is complete.

Schedule of Items

Attached, dated December 5, 2019, are the revised Schedule of Items Page 3.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 79 and 80.

END OF ADDENDUM

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS-20
INVENTORY RATING FACTOR: RF = 1.15
OPERATING RATING FACTOR: RF = 1.78
WISCONSIN STANDARD PERMIT VEHICLE (WS-SPV): 250 (KIPS)
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE: MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — $f_c = 4000$ P.S.I.
ALL OTHER — $f_c = 3500$ P.S.I.

BAR STEEL REINFORCEMENT:
STAINLESS- GRADE 60 $f_y = 60,000$ P.S.I.
STEEL — $f_y = 60,000$ P.S.I.

45W PRESTRESSED ORDERS:
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

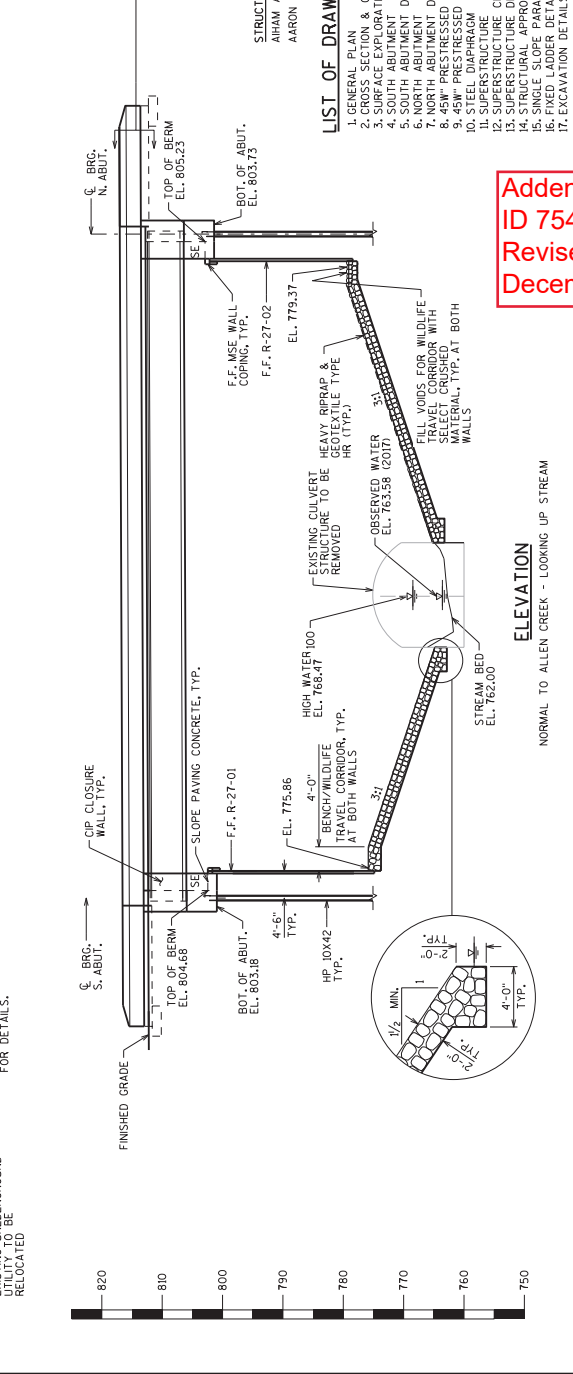
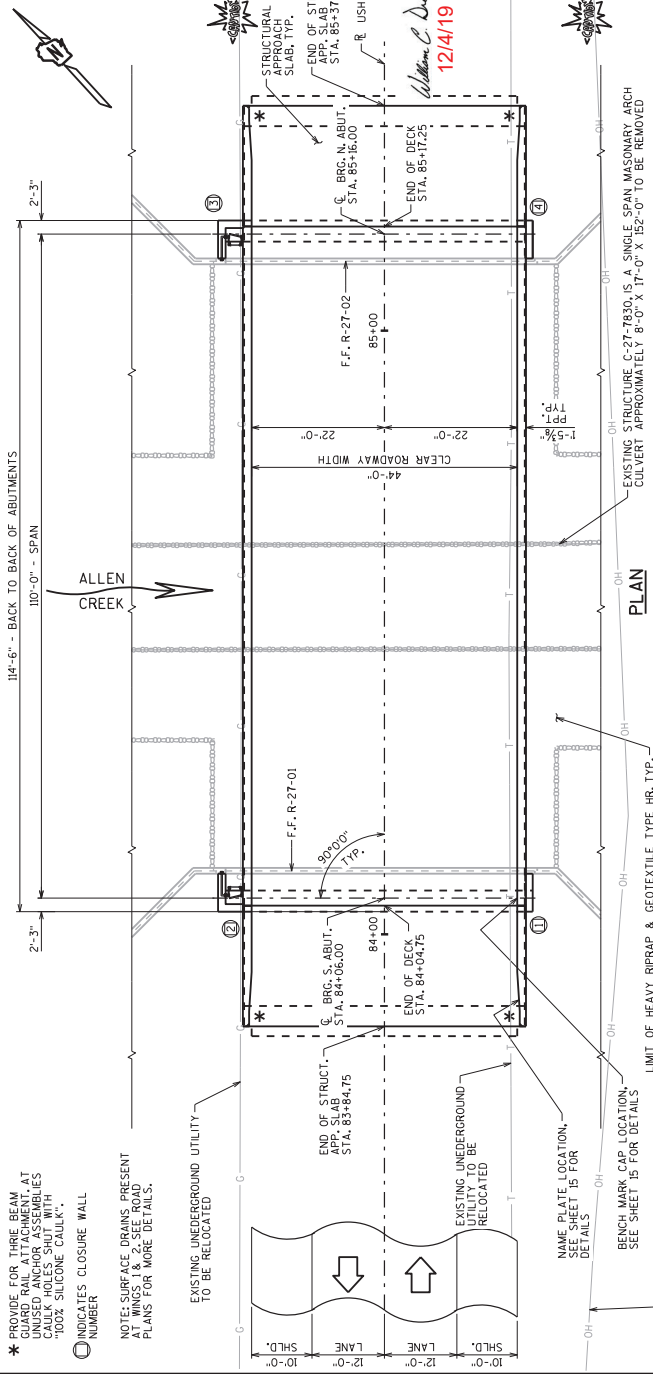
ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 PILING PREPARED TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE. PILING TO BE DRIVEN TO A MINIMUM OF 10 FEET BELOW ESTIMATED 95 FT. LONG AT BOTH ABUTMENTS. PREBORING ESTIMATED 10" AT EACH PILE AT SOUTH ABUTMENT AND 26" AT ABUTMENTS. MINIMUM OF 10" INTO SOUND BEDROCK. ** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN SHALL BE BASED ON THE RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

HYDRAULIC DATA

100 YEAR FREQUENCY
OBS = 740 C.F.S.
VEL₁₀₀ = 5.3 F.P.S.
HW₁₀₀ = EL. 768.47
WATERWAY AREA = 140 SQ. FT.
DRAINAGE AREA = 10 SQ. MI.
SCOUR CRITICAL CODE = IV/A
SCOUR CRITICAL CODE = 8

TRAFFIC VOLUME

USH 12
ADT = 5,600 (2040)
R.D.S. = 60 M.P.H.



12/24/19 PRE-BIDDING QUANTITY CHANGE AA
NO. DATE REVISION BY

BUREAU OF STRUCTURES
ACCEPTED *William C. Decker* 9/12/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-27-170
COUNTY JACKSON TOWN
USH 12 OVER ALLEN CREEK
DESIGN SPEC. WASHO LIFT BRIDGE DESIGN SPECIFICATIONS
BY: ADAMS
APPROVED: SEM BROWN
AA: KCD, SEW

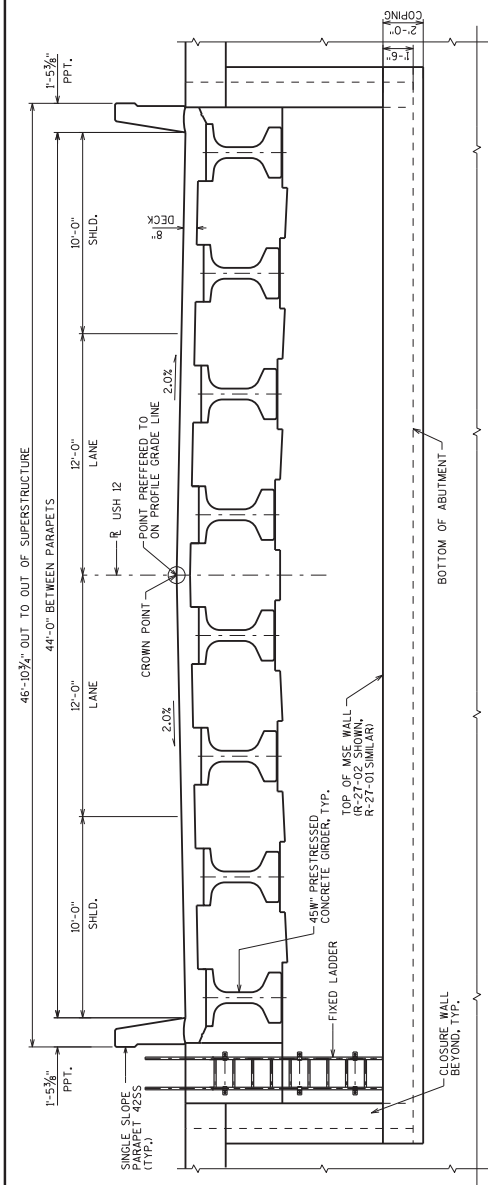
GENERAL PLAN
SHEET 1 OF 17
79

- STRUCTURE DESIGN CONTACTS:
AHAM ALSIF (608) 261-613
AARON BINK (608) 261-0261
- LIST OF DRAWINGS**
- GENERAL PLAN
 - CROSS-SECTION & QUANTITIES
 - SURFACE ELEVATION
 - SOUTH ABUTMENT DETAILS
 - NORTH ABUTMENT DETAILS
 - 45W PRESTRESSED GIRDER DETAILS 1
 - STEEL RIPRAP
 - SUPERSTRUCTURE CROSS SECTION
 - SUPERSTRUCTURE DETAILS
 - STRUCTURAL APPROACH SLABS
 - FIXED LADDER DETAILS
 - EXCAVATION DETAILS

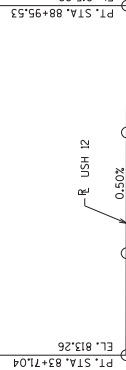
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GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
- BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
- THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-27-170" SHALL BE THE EXISTING GROUNDLINE.
- AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.
- EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL.
- THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENT. "BACKFILL STRUCTURE TYPE B" REQUIRED BEHIND STRUCTURES. QUANTITY QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.
- ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.
- PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND PARAPETS ON CHUTE AND APPROACHES. THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTED AT ABUTMENT DIAPHRAGMS.
- PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.
- THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "45W" PRESTRESSED STRUCTURE. C-27-7830. IS A SINGLE SPAN MASONRY ARCH CULVERT TO BE REMOVED.
- THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF B-27-170 WITH RETAINING WALLS R-27-01 AND R-27-02.
- THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.
- THE COST OF FURNISHING AND PLACING THE SIZE 2 COARSE AGGREGATE SHALL BE PAID FOR UNDER THE BID ITEM "SLOPE PAVING CONCRETE".



CROSS SECTION THRU ROADWAY LOOKING NORTH

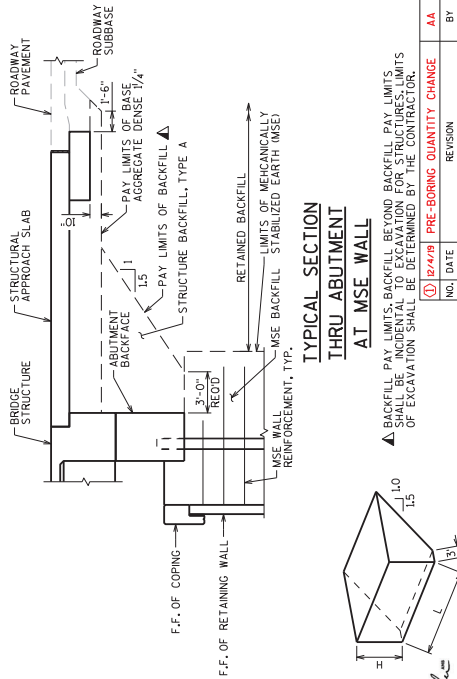


PROFILE GRADE LINE - RUSH 12

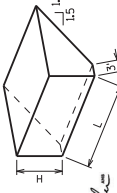
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TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH APPROACH	NORTH ABUT.	NORTH APPROACH	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 84+56.00	LS	---	---	---	---	---
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-27-170	LS	---	---	---	---	---
210.1500	BACKFILL STRUCTURE TYPE A	TON	---	191	191	382	
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	---	145	145	290	
502.0100	CONCRETE MASONRY BRIDGES	CY	231	64	39	64	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	575	100	100	775	
502.3210	PIGMENTED SURFACE SEALER	SY	111	20	20	151	
503.0146	PRESTRESSED GIRDER TYPE 145W-INCH	LF	888	---	---	888	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	---	2,965	2,965	5,930	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	34,300	735	735	57,320	
505.0600.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	---	---	---	---	
506-2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	16	---	---	16	
506-4000	STEEL DIAPHRAGMS B-27-170	EACH	14	---	---	14	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---	13	13	26	
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	---	110	110	220	
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	---	605	605	1,210	
604.0400	SLOPE PAVING CONCRETE	SY	---	16	16	32	
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4	---	---	4	
SPV0060	FIXED LADDER-B27-170	EACH	---	1	1	2	
	NON-BID ITEMS						
	FILLER	SIZE					1/2", 3/4", 1 1/2"



TYPICAL SECTION THRU ABUTMENT AT MSE WALL



ABUTMENT BACKFILL DIAGRAM

- L = OUT TO OUT OF ABUTMENT INCLUDING WINGS (FT)
- H = AVERAGE ABUTMENT FILL HEIGHT (FT)
- EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS)
- V_{CF} = (L x H x EF) / 27
- V_{TON} = V_{CF} (1.20)

12/24/19
William C. Decker

NO. DATE REVISION BY

12/24/19 PRE-BORING QUANTITY CHANGE AA

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-27-170

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Signature]

CROSS SECTION & QUANTITIES
SHEET 2 OF 80



Proposal Schedule of Items

Proposal ID: 20191210037 Project(s): 7540-01-72

Federal ID(s): WISC 2019759

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0062	513.2001 Railing Pipe 01. R-27-01	49.000 LF	_____.	_____.
0064	513.2001 Railing Pipe 02. R-27-02	49.000 LF	_____.	_____.
0066	516.0500 Rubberized Membrane Waterproofing	32.000 SY	_____.	_____.
0068	521.1012 Apron Endwalls for Culvert Pipe Steel 12-Inch	2.000 EACH	_____.	_____.
0070	521.1018 Apron Endwalls for Culvert Pipe Steel 18-Inch	2.000 EACH	_____.	_____.
0072	521.3118 Culvert Pipe Corrugated Steel 18-Inch	58.000 LF	_____.	_____.
0074	522.0548 Culvert Pipe Reinforced Concrete Class V 48-Inch	208.000 LF	_____.	_____.
0076	522.1048 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	2.000 EACH	_____.	_____.
0078	550.0020 Pre-Boring Rock or Consolidated Materials	396.000 LF	_____.	_____.
0080	550.1100 Piling Steel HP 10-Inch X 42 Lb	1,210.000 LF	_____.	_____.
0082	604.0400 Slope Paving Concrete	32.000 SY	_____.	_____.
0084	606.0300 Riprap Heavy	1,143.000 CY	_____.	_____.
0086	612.0212 Pipe Underdrain Unperforated 12-Inch	188.000 LF	_____.	_____.
0088	612.0406 Pipe Underdrain Wrapped 6-Inch	460.000 LF	_____.	_____.
0090	614.0150 Anchor Assemblies for Steel Plate Beam Guard	4.000 EACH	_____.	_____.

