



Wisconsin Department of Transportation

Division of Transportation Systems Development

Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

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

December 14, 2020

NOTICE TO ALL CONTRACTORS:

**Proposal #24: 4616-03-71, WISC 2021 092
T Wrightstown, CTH ZZ
Clay Street – Mallard Road
CTH ZZ
Brown County**

Letting of January 12, 2021

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

Special Provisions:

Added Special Provisions	
Article No.	Description
30	Crack and damage Survey, Item 999.1500.S

Schedule of Items:

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
999.1500.S	Crack and Damage Survey	LS	0	1	1

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
81	Wall Details R-5-306 Sheet 3 of 12 – removed note with incorrect section modulus.

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

4616-03-71

December 14, 2020

Special Provisions

30. Crack and Damage Survey, Item 999.1500.S.

A Description

This special provision describes conducting a crack and damage survey of the residences and business located at:

75 Washington St
101 Washington St
291 Washington St
293 Washington St
297 Washington St
299 Washington St
305 Washington St
307 Washington St
311 Washington St
313 Washington St
315 Washington St
319 Washington St
323 Washington St
339 Washington St
341 Washington St
345 Washington St
349 Washington St
405 Washington St

This Crack and Damage Survey shall consist of two parts. The first part, performed before construction activities, shall include a visual inspection, digital images, and a written report describing the existing defects in the building(s) being inspected. The second part, performed after the construction activities, shall also include a visual inspection, digital images, and written report describing any change in the building's condition.

B (Vacant)

C Construction

Before any construction activities, thoroughly inspect the building structures for existing defects, including interior and exterior walls. Electronically submit a written report with the inspector's name, date of inspection, descriptions and locations of defects, and digital images. The intent of the written report and digital images is to procure a record of the general physical condition of the building's interior and exterior walls and foundation.

Use a digital camera capable of producing sharp, grain free, high-contrast colored digital images with good shadow details. Label each digital image with the following information:

ID: _____
Building Location: _____
View looking: _____
Date: _____
Photographer: _____

Before the start of any construction activities related to this survey, submit a copy of the written report and digital images to the engineer electronically.

After the construction activities are complete, conduct another survey in the same manner, take digital images, and submit another written report to the engineer electronically.

Instead of digital images, a digital video camera capable of producing sharp, high contrast, colored digital video with good shadow detail may be used to perform this work.

D Measurement

The department will measure Crack and Damage Survey as single complete lump sum unit of work, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
999.1500.S	Crack and Damage Survey	LS

Payment is full compensation for providing the before and after written reports, and for photographs or video.

stp-999-010 (20170615)

Schedule of Items

Attached, dated December 14, 2020, are the revised Schedule of Items Page 6.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 81

END OF ADDENDUM

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
EXCAVATION FOR STRUCTURES INCLUDES ORGANIC MATERIAL AND TOP SOIL (ASSUMED TO BE 1' DEEP) FROM THE SHEET PILE WALL TO THE LIMIT OF STRUCTURE BACKFILL AREA AS SHOWN ON SHEET 5. SEE ROADWAY CROSS SECTIONS FOR BACKFILL LIMITS.
LENGTH OF RETAINING WALL IS MEASURED ALONG THE FRONT FACE AT THE REFERENCE LINE.
ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH SHEET PILE WALL BACKFILL AS SHOWN IN THE PLANS.
ALL RETAINING WALL STATIONS AND OFFSETS ARE MEASURED ALONG THE REFERENCE LINE FOR CTH ZZ.
OFFSETTS ARE MEASURED TO THE FRONT FACE OF RETAINING WALLS.
APPX. PROTECTIVE SURFACE TREATMENT TO TOP AND INSIDE FACES OF PARAPET THAT ARE NOT STAINED.
BEVEL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE NOTED.
BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.
ALL BAR STEEL IS TO BE EPOXY COATED.
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK INDICATE THE SIZE OF BAR.
THE QUANTITY OF CONCRETE MASONRY FOR THE CAST-IN-PLACE ANCHOR SLAB AND PARAPETS IS INCLUDED IN THE BID ITEM "CONCRETE MASONRY RETAINING WALLS".

SOIL PARAMETERS

Table 1: Soil Parameters - Sheet Pile Walls

Soil Description	Fiction Angle (Degrees)	Cohesion (Psi)	Unit Weight (PCF)
Soil Behind Wall in Short and Long Term Condition	40	0	150
Anchor Slab and Base Course - Within the Wall in the Reinforcing Zone.			
Granular Structural Backfill: Required along entire wall from Bottom of Anchor Slab Base Course to Finished Grade Line.	36	0	120
Natural Existing Clay: Beneath Backfill at Finished Grade Line to Depth of Sheeting.	0	600	130
Soil in Front of Wall in Short and Long Term Condition			
River Muck: Toe of Wall to 2.0 ft depth.	0	200	120
Natural Existing Clay: Beneath Backfill at Finished Grade Line to Depth of Sheeting.	0	600	130

SHEET PILE WALL ANALYSIS

Table 2: Results of Sheet Pile Wall External Stability Evaluation

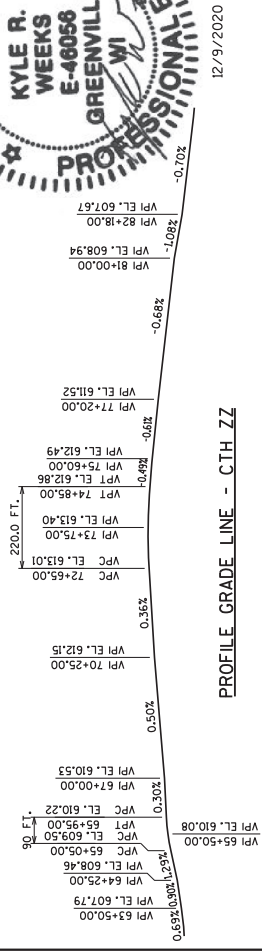
Soil Parameter	Term Condition	Short & Long	Structural		
Maximum Exposed Wall Height (feet)		6.0	15.0	16.0	17.0
Required Wall Embedment (feet)		5.4	12.0	18.1	30.4
Factored Wall Embedment (feet) ¹		6.5	15.0	21.7	36.5
Embedment (CDR > 1.0) ²		1.00	1.00	1.00	1.00
Global Stability, South Wall (FS _{stab} > 1.5) ³		3.0		2.00	
Global Stability, North Wall (FS _{stab} > 1.5) ³		3.0		2.81	
Design Results					
Max Factored Bending Moment (Lb.-ft)	4,949	23,002	34,104	52,603	
Section Modulus Required (in. ³ /ft)	1.32	6.13	9.09	14	
Wall Deflection (in./ft) ⁴	1/4	1/2	3/4	2	
Tieback Force (Lb/ft)	N/A	7,303	8,640	10,518	

1. Since the wall embedment depth uses the Simplified Method with continuous vertical elements, a 20% increase in embedment will be included.
2. CDR (Capacity to Demand Ratio) given in Chapter 14 of the WisDOT Bridge Manual.
3. FS_{stab} (Safety Factor Required) determined from Wis50601 program.
4. Wall Deflection using moment of inertia of 184.20 in⁴/ft, property of E227 sheet pile.

Addendum No. 01
ID 4616-03-71
Revised Sheet 81
December 14, 2020



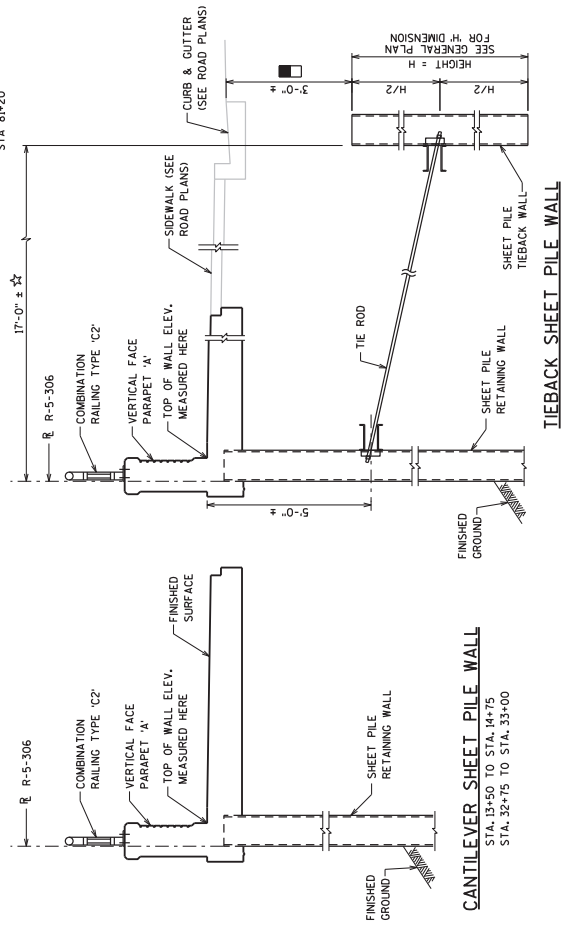
12/10/20
SJR



☆ REDUCE OFFSET FROM STA. 14+75 TO STA. 15+00 TO AVOID CONFLICT WITH STORM SEWER.
TO ACCOMMODATE PROPOSED STORM SEWER CATCH BASIN, INSTALL TIEBACK WALLS TO DEPTH OF 6'-0" BELOW PROPOSED ROADWAY SURFACE FOR MIN. LATERAL DISTANCE OF 3'-0" BOTH UP-STATION AND DOWN-STATION OF CATCH BASIN. TIEBACK WALL WATER PERMITTED TO REMAIN CONTINUOUS AND LEVEL.
REQUIRED AT ROADWAY STATIONS: STA 66+60 STA 66+75 STA 68+20 STA 70+00 STA 71+63.50 STA 75+94.40 STA 78+96.50 STA 81+20

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
14	84+46, 10 RT	HYDRANT TAG BOLT AT HOUSE #75	605.78
15	74+55, 35 RT	HYD TAG BOLT SW COR WM TREATMENT	614.74
16	63+23, 23 LT	HYDRANT TAG BOLT SW QUAD CLAY ST	609.39



TOTAL ESTIMATED QUANTITIES

BID ITEMS	QUANTITY	UNIT
EXCAVATION FOR STRUCTURES RETAINING WALLS R-5-306	1	LS
CONCRETE MASONRY RETAINING WALLS	370	CY
BAR STEEL REINFORCEMENT HS COATED STRUCTURES	944	LB
STRUCTURAL STEEL HS COATED STRUCTURES	100,990	LB
STRUCTURAL STEEL HS	256,284	LB
STRUCTURAL STEEL CS	23,370	LB
PIPING STEEL SHEET PERMANENT DELIVERED	67,856	SF
PIPING STEEL SHEET PERMANENT DRIVEN	38,550	SF
RAILING STEEL TYPE C2 R-5-306	1,950	LF
CONCRETE STAINING R-5-306	956	SF
CONCRETE STAINING MULTI-COLOR R-5-306	3,276	SF
ARCHITECTURAL SURFACE TREATMENT R-5-306	5,219	SF
GEOTECHILE TYPE SAS	14,770	TON
SHEET PILE WALL BACKFILL		
NON-BID ITEMS		
PREFORMED JOINT FILLER, 1-INCH		



Proposal Schedule of Items

Proposal ID: 20210112024 Project(s): 4616-03-71

Federal ID(s): WISC 2021092

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0162	650.5500 Construction Staking Curb Gutter and Curb & Gutter	2,875.000 LF	_____.	_____.
0164	650.6500 Construction Staking Structure Layout (structure) 01. R-5-306	LS	LUMP SUM	_____.
0166	650.9910 Construction Staking Supplemental Control (project) 01. 4616-03-71	LS	LUMP SUM	_____.
0168	650.9920 Construction Staking Slope Stakes	2,075.000 LF	_____.	_____.
0170	690.0150 Sawing Asphalt	236.000 LF	_____.	_____.
0172	690.0250 Sawing Concrete	84.000 LF	_____.	_____.
0174	715.0502 Incentive Strength Concrete Structures	5,664.000 DOL	1.00000	5,664.00
0176	SPV.0060 Special 01. Adjusting Sanitary Manhole Covers	7.000 EACH	_____.	_____.
0178	SPV.0060 Special 03. Adjusting Water Valve Box	8.000 EACH	_____.	_____.
0180	SPV.0090 Special 02. Concrete Curb and Gutter Special 24-Inch	25.000 LF	_____.	_____.
0182	SPV.0165 Special 01. Insulation Board 4-Inch	100.000 SF	_____.	_____.
0184	SPV.0195 Special 01. Sheet Pile Wall Backfill	14,770.000 TON	_____.	_____.
0186	999.1500.S Crack and Damage Survey	LS	LUMP SUM	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

