



# Wisconsin Department of Transportation

August 4, 2015

## Division of Transportation Systems Development

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

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### NOTICE TO ALL CONTRACTORS:

**Proposal #04: 1080-13-70, WISC 2015 466**  
**Lake Geneva - Elkhorn**  
**CTH NN Interchange**  
**USH 12**  
**Walworth County**

### Letting of August 11, 2015

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

#### Special Provisions

Revised Special Provisions	
Article No.	Description
3	Prosecution & Progress

Added Special Provisions	
Article No.	Description
49	Breaker Run

#### Schedule of Items

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0165.01	Wall Concrete Panel Mechanically Stabilized Earth LRFD/QMP **P**	SF	6,975	7,738	7,738

## Plan Sheets

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
39	Plan Detail – CTH NN (revised callout for Bray Road turn lane pavement)
495	Structure B-64-186, 45W” Prestressed Girder – 1 (clarified the number of girders)
510 & 511	Structure R-64-18 (revised the top of wall elevations)
515 & 516	Structure R-64-19 (revised the top of wall elevations)

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**

**1080-13-70**

**August 4, 2015**

**Special Provisions**

**3. Prosecution and Progress**

*Replace paragraph 7 with the following:*

The contract time for completion is based on an expedited work schedule and may require extraordinary forces and equipment. The contract time for completion assumes construction stages 1A and 1B are completed in the fall of 2015 and all remaining construction stages are completed in 2016. Due to long term interchange ramp closures being required, stage 2 work, including any bridge work, cannot begin until the spring of 2016. Project staging is based on minimizing the amount of time the interchange ramps are closed and the Elkhorn Area High School is in session.

**49. Breaker Run**

The contractor may substitute 3-inch base conforming to standard spec 305.2 or select crushed material conforming to standard spec 312.2 for breaker run.

**Schedule of Items**

Attached, dated August 4, 2015, is the revised Schedule of Items Page 27.

**Plan Sheets**

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:  
Revised: 39, 495, 510, 511, 515 and 516.

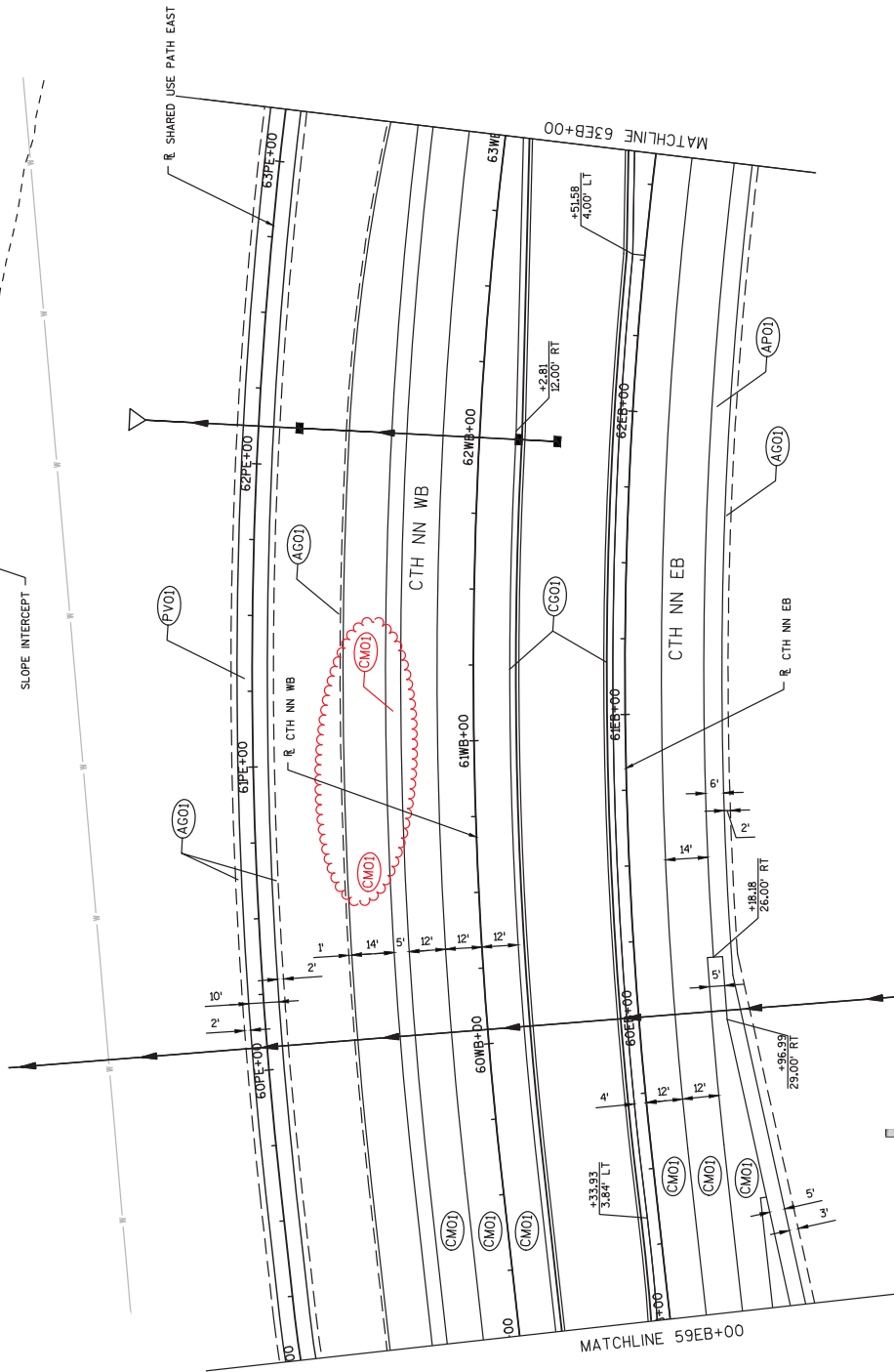
END OF ADDENDUM



Addendum No. 01  
ID 1080-13-70  
Revised Sheet 39  
August 4, 2015

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
CP465	33+56.42	39' BERTINSEN FENO MONUMENT WITH ALUMINUM CAP, SET IN THE MEDIAN OF CTH-NN, APPROXIMATELY 275' WEST OF THE CTH-NN AND STUART DRIVE INTERSECTION.	1012.91
CP466	72+88.96	39' BERTINSEN FENO MONUMENT WITH ALUMINUM CAP, SET IN THE MEDIAN OF CTH-NN, APPROXIMATELY 100' SOUTH-EAST OF THE CTH-NN AND BRAY ROAD INTERSECTION.	1036.10
BM145	47+83.66	FOUND BRIDGE MONUMENT LOCATED AT THE SOUTHWEST CORNER OF THE CTH-NN EASTBOUND BRIDGE OVER USH-12.	1047.40
BM162	51+27.74	FOUND BRIDGE MONUMENT LOCATED AT THE NORTHEAST CORNER OF THE CTH-NN WESTBOUND BRIDGE OVER USH-12.	1052.83

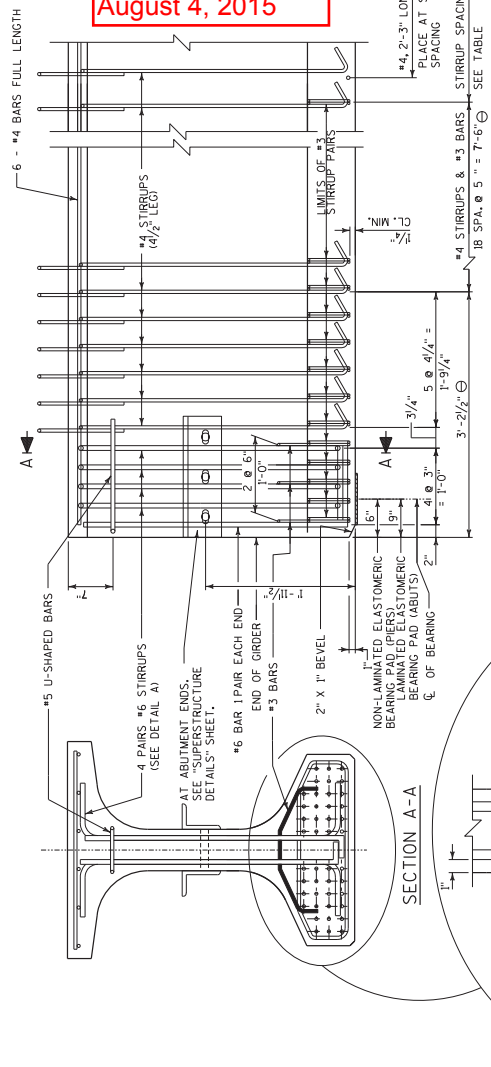


STATE PROJECT NUMBER  
1080-13-70

**GIRDER NOTES**

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.  
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.  
STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH JOINT SEALER. SEALER SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.  
DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.  
TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.  
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.  
AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.  
ALL ITEMS SHOWN SHALL BE INCLUDED IN THE BID ITEM "PRESTRESSED GIRDER TYPE 145W-MCH";  
DETAIL TYPICAL AT EACH END  
FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

**Addendum No. 01**  
**ID 1080-13-70**  
**Revised Sheet 495**  
**August 4, 2015**



**GIRDER DATA**

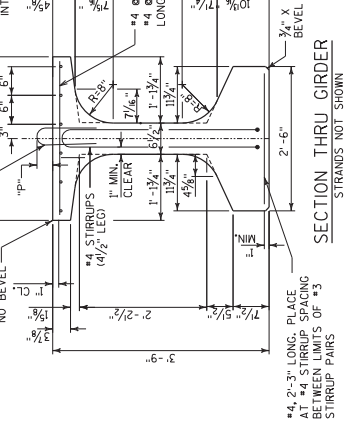
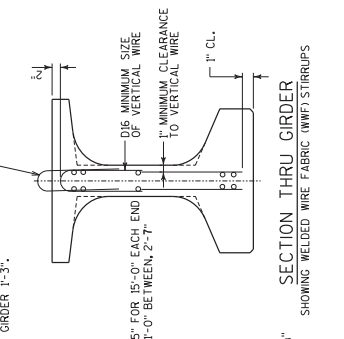
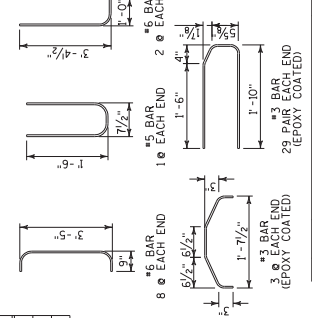
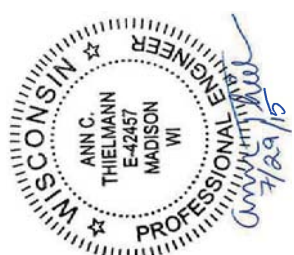
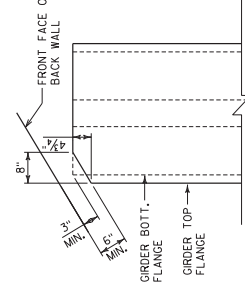
SPAN NO.	GIRDER LENGTH (IN.)	DEAD LOAD DEF. (IN.)				CONC. STRENGTH (PSI)	DIA. OF STRAND (IN.)	TOTAL NO. OF STRANDS	DRAPED PATTERN						
		1/10	2/10	3/10	4/10				5/10	F <sub>ci</sub> (MIN.)	F <sub>ci</sub> (MAX.)	F <sub>ci</sub> (C)			
1	87'-9"	0.3	0.6	0.9	1.0	1.1	8000	7	0.6	28	6000	41	13.25	16.25	4
2	87'-9"	0.4	0.8	1.1	1.3	1.3	8000	7	0.6	28	6000	41	13.25	16.25	4
3	87'-9"	0.3	0.6	0.9	1.0	1.1	8000	7	0.6	28	6000	41	13.25	16.25	4
4	87'-9"	0.3	0.6	0.9	1.0	1.1	8000	7	0.6	28	6000	41	13.25	16.25	4

\* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

**STIRRUP SPACING**

SPAN	LOCATION	BAR SIZE	MAX. SPACING
1 & 4	FROM END TO 10'-8 1/2"	AS SHOWN	AS SHOWN
	FROM 10'-8 1/2" TO 29'-3"	#4	8"
2 & 3	FROM 10'-8 1/2" TO 29'-3"	AS SHOWN	AS SHOWN
	FROM 29'-3" TO MIDSPAN	#4	10"

SPACING IS SYMMETRIC ABOUT MIDSPAN OF GIRDER



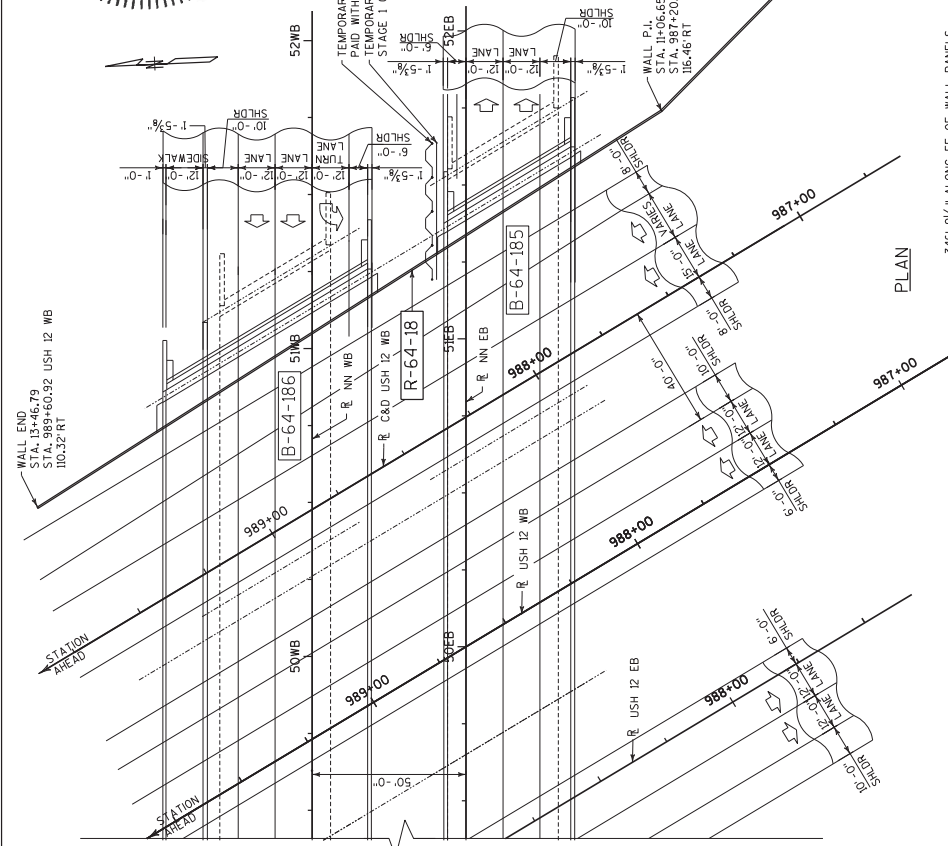
*William C. Decker*  
SDR  
07/30/2015

FORM OUT TOP FLANGE  
DETAIL @ ABUTMENT ENDS

STATE PROJECT NUMBER  
1080-13-70

**GENERAL NOTES**

- DRAWINGS SHALL NOT BE SCALED.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
- ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.
- BEVEL ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP".
- PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.
- THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN IN THE GEOMETRY TABLE ON SHEET 2.
- THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.
- JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, FOR IIIOR A.A.S.H.T.O. DESIGNATION M 213.
- THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE LEVELING PAD TO THE TOP OF WALL. THE TOP OF LEVELING PAD IS ASSUMED TO BE A CONSTANT 3'-0" BELOW FINISHED GRADE.
- THE CONTRACTOR MUST COORDINATE CONSTRUCTION OF THIS WALL WITH CONSTRUCTION OF THE EAST ABUTMENTS OF BRIDGES B-64-189 AND B-64-186.
- ALL WALL STATIONS ARE ALONG THE R FOR R-64-18 ALONG THE FRONT FACE OF WALL (UNLESS SHOWN OTHERWISE).
- ROADWAY STATION AND OFFSET DATA REFERENCES THE USH 12 WB ALIGNMENT.
- THE EXISTING GROUND LINE IS THE UPPER LIMIT OF EXCAVATION OF STRUCTURES.



**Addendum No. 01**  
**ID 1080-13-70**  
**Revised Sheet 510**  
**August 4, 2015**

*William C. Decker SDR*  
07/31/2015

**LIST OF DRAWINGS:**

- GENERAL PLAN & ELEVATION
- GEOMETRY TABLE, CROSS SECTION & QUANTITIES
- WALL DETAILS
- RAILING PIPE DETAIL
- SUBSURFACE EXPLORATION

**LEGEND**

☉ EXPANSION JOINT IN COPING

**TRAFFIC DATA:**

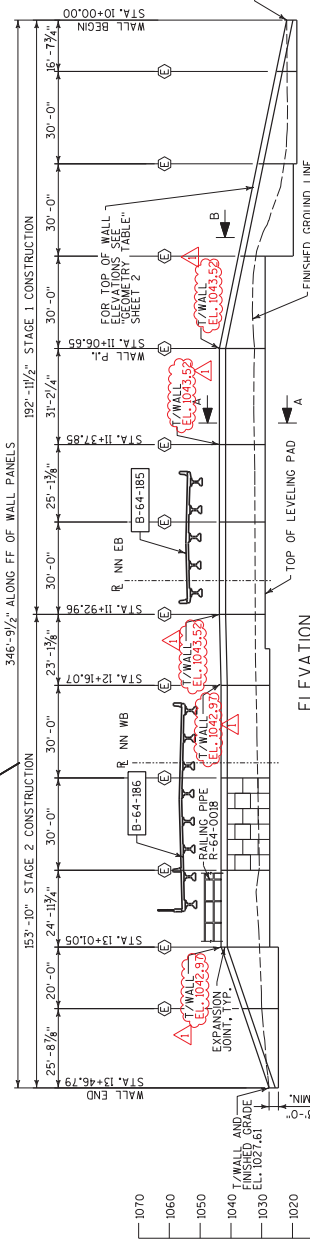
**USH 12**  
A.D.T. = 16600 (2015)  
A.D.T. = 23500 (2035)  
R.D.S. = 70 MP-H,  
**CTH NN**  
A.D.T. = 8100 (2015)  
A.D.T. = 9200 (2035)  
R.D.S. = 60 MP-H.

**DESIGN DATA**

LIVE LOAD  
LIVE LOAD SURCHARGE = 240 P.S.F.  
MATERIAL PROPERTIES  
CONCRETE MASONRY COPING  $f'_c = 3,500$  PSI  
PRECAST CONCRETE WALL PANELS  $f'_c = 4,000$  PSI  
BAR STEEL REINFORCEMENT  $f_y = 60,000$  PSI  
DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN, AND ANY EARTH LOAD SURCHARGES NOT CARRIED BY THE ABUTMENTS.

**PLAN**

346'-9 1/2" ALONG FF OF WALL PANELS



**ELEVATION**

LOOKING EAST AT FRONT FACE OF WALL  
(SEE SHEET 3 FOR CROSS SECTIONS A-A & B-B)

NO.	DATE	TOP OF WALL ELEVATIONS	REVISION	BY	ACT
1	7/30/15				

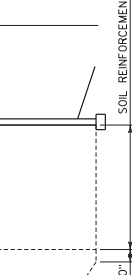
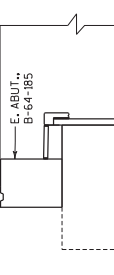
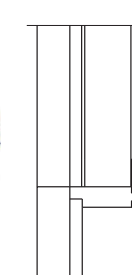
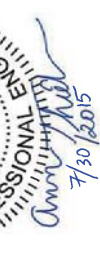
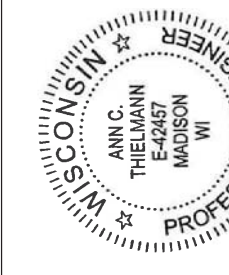
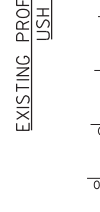
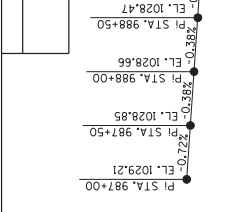
DESIGNER:	DAAR ENGINEERING, INC.
DESIGN SPEC:	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS
DESIGNED BY:	WILLIAM C. DECKER
ACT. ELEV.	SUB. BY: PLANS
TEW. SUG.	TEW. SUG.
STRUCTURE R-64-0018	
COUNTY:	WALNORTH
VILLAGE:	GENEVA
DEPARTMENT:	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
ACCEPTED:	CHIEF STRUCTURES DESIGN ENGINEER DATE

**DESIGN CONTACTS**

BUREAU OF STRUCTURES:  
WILLIAM DREHER  
(608) 266-8489  
CONSULTANT CONTACT:  
ANN C. THEILMANN  
(608) 225-4441

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STATE PROJECT NUMBER  
**1080-13-70**



Addendum No. 01  
ID 1080-13-70  
Revised Sheet 511  
August 4, 2015

WALL EXTERNAL STABILITY EVALUATION	
DIMENSIONS	EVALUATED LOCATION
WALL STA.	12+93.99
BORING USED	S-11
WALL HEIGHT (FEET)	14.93
EXPOSED WALL HEIGHT (FEET)	11.93
MINIMUM LENGTH OF REINFORCEMENT (FEET)	20
LENGTH OF REIN. / WALL HEIGHT	1.34
SLIDING (CDR>LO)	1.02
ECCENTRICITY (CDR>LO)	1.30
OVERALL STABILITY (CDR>LO)	1.01
BEARING RESISTANCE (CDR>LO)	1.07
FACTORED BEARING RESISTANCE (PSF)	6000

NOTES:  
 1. WALL HEIGHT SHOWS ONLY THE CONTROLLING SECTION AND INCLUDES MIN. 3.0 FEET OF EMBEDMENT.  
 2. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH FOR THE CONTROLLING SECTION.

FINAL DESIGN FOR INTERNAL STABILITY, EXTERNAL SLIDING & ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTORS WALL DESIGNER.

TOTAL ESTIMATED QUANTITIES		
BID - ITEM	UNITS	QUANTITY
513.2050.5 RAILING PIPE	LF	347
516.0500 RUBBERIZED MEMBRANE WATERPROOFING	SF	8
*612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	60
612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH	LF	347
SPV.0165.01 WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP	SF	4586
SPV.0165.02 TEMPORARY WALL WIRE FACE MECHANICALLY STABILIZED EARTH LRFD/OMP	SF	709
NON BID - ITEM		
PREFORMED FILLER	SIZE 3/4" & 1"	
EXPANDED POLYSTYRENE	SIZE 1"	

\* UNPERFORATED PIPE SHOULD BE USED BEYOND THE WALL LIMITS

BENCH MARKS		
NO.	DESCRIPTION	ELEVATION
BM 145	BRIDGE MONUMENT AT THE SOUTHWEST CORNER OF THE EASTBOUND CTH 'NNY' BRIDGE	1047.44
BM 162	BRIDGE MONUMENT AT THE NORTHEAST CORNER OF THE WESTBOUND CTH 'NNY' BRIDGE	1052.85

SOIL PARAMETERS			
SOIL ZONE AND ELEVATION	SOIL DESCRIPTION	MOIST. SH. UNIT WEIGHT (PCF)	INTERNAL ANGLE OF FRICTION (DEGREES)
RETAINED FILL TOW EL. 1043.11	SANDS AND SILTY CLAYS (FILL)	120	29
FOUNDATION SOILS FOOTING EL. 1026.54-1027.68	SILTY SANDS (FILL)	125	34

GEOMETRY TABLE		
WALL STATION	OFFSET TO TOP OF WALL	FINISHED GROUND
10+00.00	986-17.57	1022.68
11+06.65	987-20.86	106.46 RT
11+37.84	987-52.05	104.52 RT
11+92.96	988-07.14	104.52 RT
12+16.07	988-30.25	104.91 RT
13+01.05	989-15.20	104.91 RT
13+46.79	989-60.92	110.32 RT
		1027.61

STRUCTURE R-64-0018	
NO. DATE	REVISION & QUANTITY
ACT	BY

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

GEOMETRY TABLE, CROSS-SECTION, & QUANTITIES

SHEET 2 OF 5

511

17.30.2015

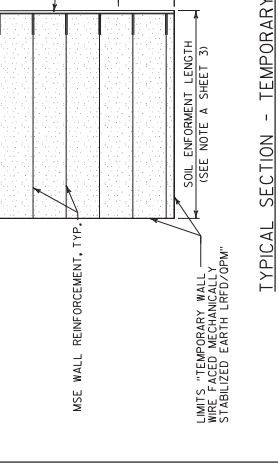
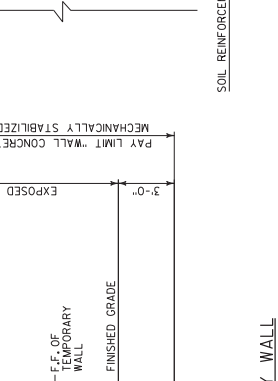
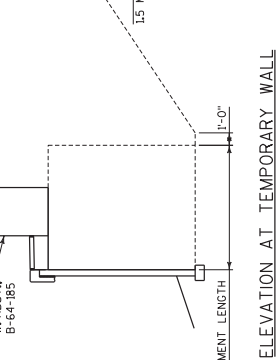
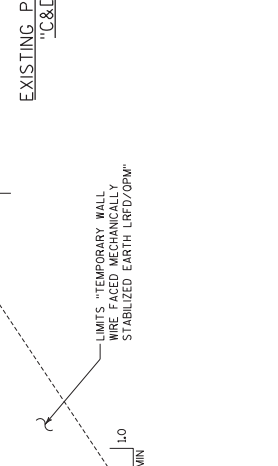
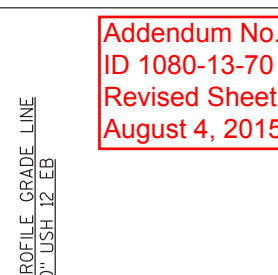
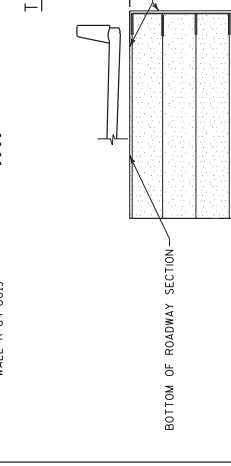
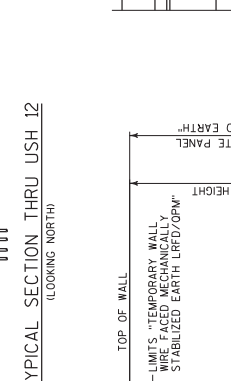
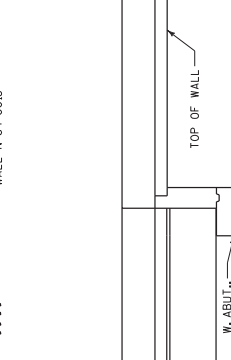
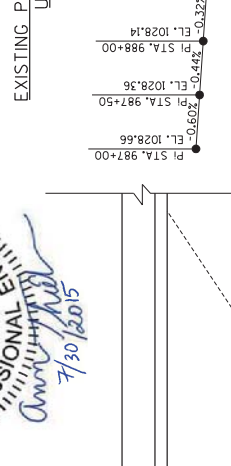
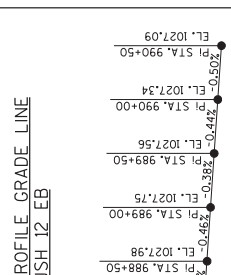
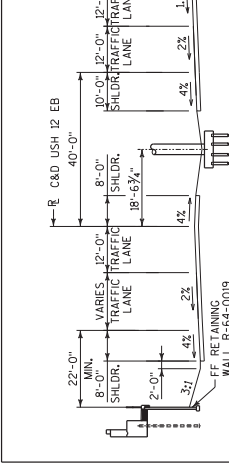
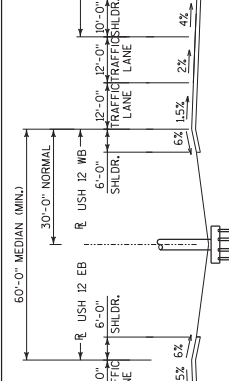
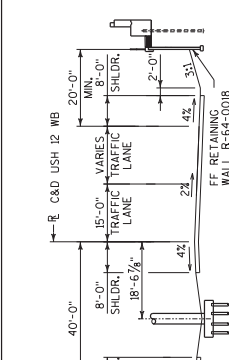




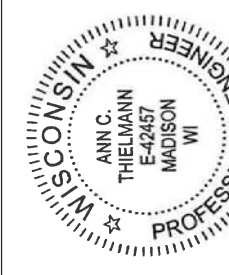
STATE PROJECT NUMBER  
1080-13-70

EXISTING PROFILE GRADE LINE  
USH 12 EB

EXISTING PROFILE GRADE LINE  
"C&D" USH 12 EB



Addendum No. 01  
ID 1080-13-70  
Revised Sheet 516  
August 4, 2015



SOIL ZONE AND ELEVATION (FT)	SOIL DESCRIPTION	MOIST. SOIL UNIT WEIGHT (PCF)	COHESION, C (PSF)	INTERNAL ANGLE OF FRICTION (DEGREES)
RETAINED FILL TOW EL. 1040.56	SANDS AND LEAN CLAYS (FILL)	120	0	29
FOUNDATION SOILS FOOTING EL. 1023.94-1030.12	LEAN CLAYS (FILL)	125	250	32

WALL STA.	EVALUATED LOCATION
BORING USED	10+68.91
WALL HEIGHT (FEET)	5-7
EXPOSED WALL HEIGHT (FEET)	9.94
MINIMUM LENGTH OF REINFORCEMENT (FEET)	6.94
LENGTH OF REIN. / WALL HEIGHT	2.01
CAPACITY TO DEMAND RATIO (CDR)	
SLIDING (CDR>1.0)	1.13
ECCENTRICITY (CDR>1.0)	2.08
OVERALL STABILITY (CDR>1.0)	1.01
BEARING RESISTANCE (CDR>1.0)	1.16
FACTORED BEARING RESISTANCE (PSF)	5000

BID - ITEM	UNITS	QUANTITY
513.2050.5 RAILING PIPE	LF	324
516.0500 RUBBERIZED MEMBRANE WATERPROOFING	SY	8
*612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	60
612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH	LF	324
SPV.0185.01 WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP	SF	362
SPV.0185.02 TEMPORARY WALL WIRE FACE MECHANICALLY STABILIZED EARTH LRFD/OMP	SF	324
NON BID - ITEM	SIZE	3/4" x 1"
EXPANDED POLYSTYRENE	SIZE	1"

WALL STATION	OFFSET TO F.F. WALL	TOP OF WALL	FINISHED GROUND
10+00.00	114.24 LT	1030.26	1030.26
10+35.16	989-26.38	1040.40	1033.44
10+89.62	989-80.84	1040.40	1033.91
11+12.46	990-03.68	1049.67	1033.97
11+96.42	990-87.65	1035.67	1034.44
13+23.07	992+14.24	1023.32	1023.85

WALL STATION	OFFSET TO F.F. WALL	TOP OF WALL	FINISHED GROUND
10+00.00	114.24 LT	1030.26	1030.26
10+35.16	989-26.38	1040.40	1033.44
10+89.62	989-80.84	1040.40	1033.91
11+12.46	990-03.68	1049.67	1033.97
11+96.42	990-87.65	1035.67	1034.44
13+23.07	992+14.24	1023.32	1023.85

NO.	DESCRIPTION	ELEVATION
BM 145	BRIDGE MONUMENT AT THE SOUTHWEST CORNER OF THE EASTBOUND CTH "NN" BRIDGE	1047.44
BM 162	BRIDGE MONUMENT AT THE NORTHEAST CORNER OF THE WESTBOUND CTH "NN" BRIDGE	1052.85

NO.	DATE	REVISION	BY
1	7/30/15	TOP OF WALL ELEVATION & QUANTITY	ACT

NO.	DATE	REVISION	BY
1	7/30/15	TOP OF WALL ELEVATION & QUANTITY	ACT

NO.	DESCRIPTION	ELEVATION
BM 145	BRIDGE MONUMENT AT THE SOUTHWEST CORNER OF THE EASTBOUND CTH "NN" BRIDGE	1047.44
BM 162	BRIDGE MONUMENT AT THE NORTHEAST CORNER OF THE WESTBOUND CTH "NN" BRIDGE	1052.85

NO.	DATE	REVISION	BY
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## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20150811004PROJECT(S):  
1080-13-70FEDERAL ID(S):  
WISC 2015466

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2750	SPV.0060 Special 06. SAND BAGS	500.000 EACH	.		.	
2760	SPV.0090 Special 01. GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH	160.000 LF	.		.	
2770	SPV.0090 Special 02. GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH	195.000 LF	.		.	
2780	SPV.0090 Special 03. REMOVING EXISTING TIMBER PILING	2,320.000 LF	.		.	
2790	SPV.0090 Special 04. HEAVY DUTY SILT FENCE	1,600.000 LF	.		.	
2800	SPV.0090 Special 05. TEMPORARY PAVEMENT MARKING NON-REFLECTIVE BLACK TAPE 6-INCH	500.000 LF	.		.	
2810	SPV.0105 Special 01. CONCRETE PAVEMENT JOINT LAYOUT	LUMP	LUMP		.	
2820	SPV.0165 Special 01. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP **P**	7,738.000 SF	.		.	
2830	SPV.0165 Special 02. TEMP WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP **P**	1,033.000 SF	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	