



Wisconsin Department of Transportation

October 26, 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 #21: 4996-01-58, WISC 2015 144
Taylor Drive, City of Sheboygan
Kohler Memorial Drive – Crocker Avenue
Local Street
Sheboygan County

Letting of November 10, 2015

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

Special Provisions

Revised Special Provisions	
Article No.	Description
3	Revise schedule in Prosecution and Progress to require clearing prior to March 20 to avoid potential adverse impacts to Northern Long-Eared Bats

Schedule of Items

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
505.0615	Bar Steel Reinforcement HS Coated Retaining Walls	LB	43310	610	43920

Plan Sheets

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
273	Structure R-59-27 Section, Note & Quantities(updated quantity for item 505.0615)
278	Structure R-59-27 Panel Details 13 thru 16 (changed number of spaces for panels 14, 15, and 16. 24 spaces should be 27 spaces. Overall dimension was correct as shown.)
279	Structure R-59-27 Panel Details 17 thru 20 (changed number of spaces for panel 17. 24 spaces should be 27 spaces. Overall dimension was correct as shown.)
288	Structure R-59-27 Bill of Bars (revise the number of required bars for vertical bars, horizontal bars, and bar series tables)
290	Structure R-59-32 Section, Notes & Quantities (sleeve for fence post foundation)

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

4996-01-58

October 26, 2015

Special Provisions

3. Prosecution and Progress.

Replace entire article language with the following:

Begin work within ten calendar days after the engineer issues a written notice to do so.

Due to utility relocations, do not begin construction before April 1, 2016. With the exception of the Clearing and associated traffic control for Clearing.

Northern Long-eared Bats (NLEB) have potential to inhabit the project limits.

There shall be no Clearing for this contract, from April 1 to September 1 both dates inclusive, in order to avoid adverse impacts upon the NLEB. Submit a schedule and description of Clearing operations to the department 14 days prior to any Clearing operations. The department will determine, based on schedule and scope of work, what erosion control shall be implemented prior to the start of clearing operations.

Provide the start date to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the approved start date.

The contractor is allowed to present a schedule with work beginning within ten calendar days after the engineer issues a written notice to do so, provided that the contractor coordinates with all utilities having facilities on the project and that there is no additional costs to the project for utility work or coordination from the contractor or utility companies.

To revise the start date, submit a written request to the engineer at least two weeks before the intended start date. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

The contract time for completion is based on simultaneous construction of the Retaining Wall R-59-0027, Boardwalk M-59-0001, Prefabricated Bridges B-59-188 and B-59-189, and the general road construction items.

Fish Spawning

There shall be no instream disturbance of Sheboygan River as a result of construction activity under or for this contract, from March 1 to June 15 both dates inclusive, in order to avoid adverse impacts upon the spawning of fish.

Any change to this limitation will require submitting a written request by the contractor to the engineer, subsequent review and concurrence by the Department of Natural Resources in the request, and final approval by the engineer. The approval will include all conditions to the request as mutually agreed upon by WisDOT and DNR.

Schedule of Items

Attached, dated October 26, 2015, is the revised Schedule of Item Page 4.

Plan Sheets

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

Revised: 273, 278, 279, 288, and 290

END OF ADDENDUM

GENERAL NOTES

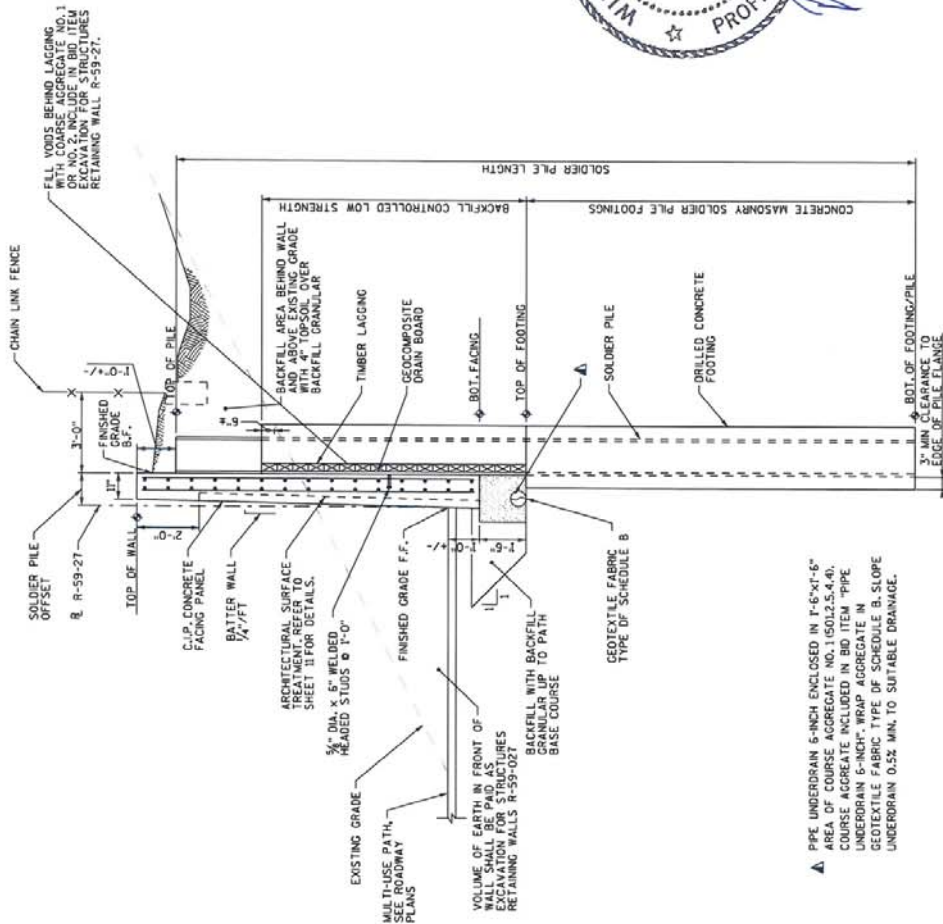
DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
 THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
 THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES RETAINING WALLS (R-59-027).
 ALL STATIONS AND ALL ELEVATIONS ARE IN FEET.

DESIGN DATA

LIVE LOAD SURCHARGE _____ 100 PSF
 ULTIMATE DESIGN STRESSES:
 CONCRETE MASONRY, SOLDIER PILE FOOTINGS — f_c = 3,500 psi
 CONCRETE MASONRY, FACING PANELS — f_c = 4,000 psi
 BACKFILL LEAN-MIX CONCRETE — f_c = 100 TO 200 psi
 HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60,000 psi
 HIGH STRENGTH STRUCTURAL STEEL (ASTM A709, GRADE 50) — f_y = 50,000 psi
 TIMBER LAGGING — F_b = 1200 psi
 E = 1,500,000 psi

DESIGN SOIL PROPERTIES

BACKSLOPE ANGLE _____ 21.8°
 ACTIVE PRESSURE COEFFICIENT K_a _____ 0.436
 DENSITY _____ 136 PCF
 ANGLE OF INTERNAL FRICTION _____ 30°



CROSS SECTION THROUGH WALL

William C. Decker SDR
 10/23/15

TOTAL ESTIMATED QUANTITIES-CAT 0020

ITEM NO.	DESCRIPTION	UNIT	TOTALS
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS (R-59-27)	LS	1
209.0200.5	BACKFILL CONTROLLED LOW STRENGTH	CY	960
210.0100	BACKFILL GRANULAR	CY	350
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	485
505.0605	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	433920
506.0605	STRUCTURAL STEEL HS	LB	456234
612.0106	PIPE UNDERDRAIN 6-INCH	LF	1026
645.0102	GEOTEXTILE FABRIC TYPE OF SCHEDULE B	SY	750
SPV.0035.01	CONCRETE MASONRY SOLDIER PILE FOOTINGS	CY	885
SPV.0060.01	WELDED STUD SHEAR CONNECTORS 3/8x6-INCH	EACH	885
SPV.0090.03	FOUNDATION DRILLING	LF	4640
SPV.0091.01	FENCE CHAIN LINK POLYMER COATED 6-FT	LF	1082
SPV.0105.03	STAINING CONCRETE STRUCTURE R-59-27	LS	1
SPV.0100.01	TIMBER LAGGING	MBM	35.04
SPV.0185.01	ANTI-GRAFFITICOATING (R-59-27)	SF	13150
SPV.0180.01	ARCHITECTURAL SURFACE TREATMENT (R-59-27)	SY	1071
SPV.0180.02	GEOCOMPOSITE DRAIN BOARD	SY	116

Addendum No. 01
 ID 4996-01-58
 Revised Sheet 273
 October 26, 2015

SECTION, NOTES & QUANTITIES
 SHEET 10 OF 25
 273



William C. Decker SDR
10/23/15

BILL OF BARS

COATED: 16350 LBS
UNCOATED: 0 LBS

BAR MARK	COAT	NUMBER REQUIRED	LENGTH	BAR SERIES	BENT	LOCATION
V401	X	20	5'-4"	X		VERTICAL PANEL 1
V402	X	56	6'-7"	X		VERTICAL PANEL 2
V403	X	56	9'-2"	X		VERTICAL PANEL 3
V404	X	56	10'-11"	X		VERTICAL PANEL 4
V405	X	56	11'-2"	X		VERTICAL PANEL 5
V406	X	56	11'-6"	X		VERTICAL PANEL 6
V407	X	56	11'-10"	X		VERTICAL PANEL 7
V408	X	56	12'-1"	X		VERTICAL PANEL 8
V409	X	56	12'-4"	X		VERTICAL PANEL 9
V410	X	56	12'-7"	X		VERTICAL PANEL 10
V411	X	56	12'-9"	X		VERTICAL PANEL 11
V412	X	56	12'-11"	X		VERTICAL PANEL 12
V413	X	56	13'-3"	X		VERTICAL PANEL 13
V414	X	56	13'-5"	X		VERTICAL PANEL 14
V415	X	56	13'-2"	X		VERTICAL PANEL 15
V416	X	56	13'-1"	X		VERTICAL PANEL 16
V417	X	56	12'-11"	X		VERTICAL PANEL 17
V418	X	56	12'-8"	X		VERTICAL PANEL 18
V419	X	56	12'-5"	X		VERTICAL PANEL 19
V420	X	56	12'-2"	X		VERTICAL PANEL 20
V421	X	56	12'-2"	X		VERTICAL PANEL 21
V422	X	56	12'-2"	X		VERTICAL PANEL 22
V423	X	56	12'-2"	X		VERTICAL PANEL 23
V424	X	56	12'-9"	X		VERTICAL PANEL 24
V425	X	56	12'-3"	X		VERTICAL PANEL 25
V426	X	56	12'-3"	X		VERTICAL PANEL 26
V427	X	56	12'-3"	X		VERTICAL PANEL 27
V428	X	56	12'-3"	X		VERTICAL PANEL 28
V429	X	56	12'-0"	X		VERTICAL PANEL 29
V430	X	56	11'-9"	X		VERTICAL PANEL 30
V431	X	56	11'-5"	X		VERTICAL PANEL 31
V432	X	56	11'-1"	X		VERTICAL PANEL 32
V433	X	56	10'-6"	X		VERTICAL PANEL 33
V434	X	56	9'-10"	X		VERTICAL PANEL 34
V435	X	56	9'-10"	X		VERTICAL PANEL 35
V436	X	56	8'-3"	X		VERTICAL PANEL 36
V437	X	56	8'-3"	X		VERTICAL PANEL 37
V438	X	56	7'-4"	X		VERTICAL PANEL 38
V439	X	42	6'-6"	X		VERTICAL PANEL 39
V440	X	26	5'-11"	X		VERTICAL PANEL 40

BILL OF BARS

COATED: 27570 LBS
UNCOATED: 0 LBS

BAR MARK	COAT	NUMBER REQUIRED	LENGTH	BAR SERIES	BENT	LOCATION
H501	X	12	11'-4"			HORIZONTAL PANEL 1
H502	X	14	27'-8"			HORIZONTAL PANEL 2
H503	X	22	27'-8"			HORIZONTAL PANEL 3
H504	X	24	27'-8"			HORIZONTAL PANEL 4
H505	X	24	27'-8"			HORIZONTAL PANEL 5
H506	X	26	27'-8"			HORIZONTAL PANEL 6
H507	X	26	27'-8"			HORIZONTAL PANEL 7
H508	X	26	27'-8"			HORIZONTAL PANEL 8
H509	X	28	27'-8"			HORIZONTAL PANEL 9
H510	X	28	27'-8"			HORIZONTAL PANEL 10
H511	X	28	27'-8"			HORIZONTAL PANEL 11
H512	X	28	27'-8"			HORIZONTAL PANEL 12
H513	X	28	27'-8"			HORIZONTAL PANEL 13
H514	X	28	27'-8"			HORIZONTAL PANEL 14
H515	X	28	27'-8"			HORIZONTAL PANEL 15
H516	X	28	27'-8"			HORIZONTAL PANEL 16
H517	X	28	27'-8"			HORIZONTAL PANEL 17
H518	X	28	27'-8"			HORIZONTAL PANEL 18
H519	X	26	27'-8"			HORIZONTAL PANEL 19
H520	X	26	27'-8"			HORIZONTAL PANEL 20
H521	X	26	27'-8"			HORIZONTAL PANEL 21
H522	X	26	27'-8"			HORIZONTAL PANEL 22
H523	X	26	27'-8"			HORIZONTAL PANEL 23
H524	X	26	27'-8"			HORIZONTAL PANEL 24
H525	X	26	27'-8"			HORIZONTAL PANEL 25
H526	X	26	27'-8"			HORIZONTAL PANEL 26
H527	X	26	27'-8"			HORIZONTAL PANEL 27
H528	X	26	27'-8"			HORIZONTAL PANEL 28
H529	X	26	27'-8"			HORIZONTAL PANEL 29
H530	X	26	27'-8"			HORIZONTAL PANEL 30
H531	X	26	27'-8"			HORIZONTAL PANEL 31
H532	X	26	27'-8"			HORIZONTAL PANEL 32
H533	X	24	27'-8"			HORIZONTAL PANEL 33
H534	X	24	27'-8"			HORIZONTAL PANEL 34
H535	X	22	27'-8"			HORIZONTAL PANEL 35
H536	X	22	27'-8"			HORIZONTAL PANEL 36
H537	X	20	27'-8"			HORIZONTAL PANEL 37
H538	X	14	27'-8"			HORIZONTAL PANEL 38
H539	X	16	20'-8"			HORIZONTAL PANEL 39
H540	X	14	13'-8"			HORIZONTAL PANEL 40

BAR SERIES TABLE

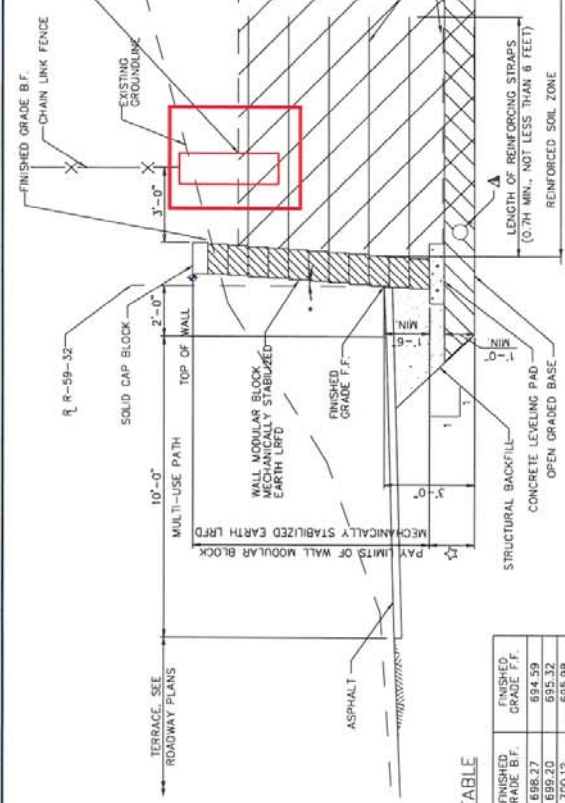
BAR MARK	NO. REOD.	LENGTH
V401	2 SERIES OF 10	5'-1" TO 5'-7"
V402	2 SERIES OF 28	5'-7" TO 7'-7"
V403	2 SERIES OF 28	7'-7" TO 10'-9"
V404	2 SERIES OF 28	10'-9" TO 11'-4"
V405	2 SERIES OF 28	11'-4" TO 11'-8"
V406	2 SERIES OF 28	11'-8" TO 11'-11"
V407	2 SERIES OF 28	11'-11" TO 12'-3"
V408	2 SERIES OF 28	12'-3" TO 12'-5"
V409	2 SERIES OF 28	12'-5" TO 12'-8"
V410	2 SERIES OF 28	12'-8" TO 13'-1"
V411	2 SERIES OF 28	13'-1" TO 13'-5"
V412	2 SERIES OF 28	13'-5" TO 11'-7"
V413	2 SERIES OF 28	11'-7" TO 11'-11"
V414	2 SERIES OF 28	11'-11" TO 11'-5"
V415	2 SERIES OF 28	10'-9" TO 10'-9"
V416	2 SERIES OF 28	10'-9" TO 10'-9"
V417	2 SERIES OF 28	9'-6" TO 10'-2"
V418	2 SERIES OF 28	8'-8" TO 9'-6"
V419	2 SERIES OF 28	7'-9" TO 8'-8"
V420	2 SERIES OF 28	6'-9" TO 7'-9"
V421	2 SERIES OF 21	6'-2" TO 6'-10"
V422	2 SERIES OF 13	5'-7" TO 6'-2"

Addendum No. 01
ID 4996-01-58
Revised Sheet 288
October 26, 2015

1	10/21/15	REVISED BILL OF BARS	TLK
NO. DATE	REVISION	BY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE R-59-27			
DRAWN BY	DATE	PLANS CXC.	PUE
BILL OF BARS			SHEET 25 OF 25
			288

STATE PROJECT NUMBER
4996-01-58

PROVIDE SLEEVE FOR FENCE FOUNDATION. COORDINATE MATERIAL AND SIZE OF SLEEVE WITH FENCE. SLEEVE INCIDENTAL TO WALL. MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD R-59-32



CROSS SECTION THROUGH WALL

- ▲ PIPE UNDERDRAIN WRAPPED 6-INCH SLOPE 0.5% MIN. TO SUITABLE DRAINAGE.
- GEOTEXTILE FABRIC TYPE OF SCHEDULE B. PLACE BETWEEN REINFORCED SOIL ZONE AND OPEN GRADED BASE.
- WALL FRONT FACE BATTER VARIES BY MANUFACTURER.
- ☆ LIMITS FOR EXCAVATION FOR STRUCTURES.

TOTAL ESTIMATED QUANTITIES--CAT 0070

ITEM NO.	BID ITEMS	UNIT	TOTALS
205.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS (R-59-32)	LS	1
310.0115	BASE AGGREGATE OPEN GRADED	CY	186
210.0100	BACKFILL STRUCTURE	CY	1065
SPV.0163.04	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD R-59-32	SF	1825
617.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	260
645.0112	GEOTEXTILE FABRIC TYPE OF SCHEDULE B	SY	528
SPV.0090.01	FENCE CHAIN LINK POLYMER-COATED 6-FT	LF	250

THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED A FINAL DESIGN. REINFORCEMENT LENGTHS SHALL BE ADJUSTED TO EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
GRANULAR BACKFILL (REINFORCED ZONE)	120	30	-
GRANULAR BACKFILL (RETAINED SOIL)	120	30	-
LEAN CLAY (FOUNDATION SOIL)	136	0	2,600

GEOMETRY TABLE

WALL STATION	TOP OF WALL	FINISHED GRADE F.F.	FINISHED GRADE F.F.	EVALUATED LOCATIONS
1231+25	698.77	688.37	684.59	6.5 6.2 5.9
1231+50	699.70	689.30	685.52	4.5 4.2 3.9
1231+75	700.62	700.12	695.96	6.0 6.0 6.0
1232+00	701.50	701.00	696.53	9-1 8-2 8-3
1232+25	702.48	701.98	697.09	2.200 2.200 2.200
1232+50	703.19	702.69	697.68	1.7 1.8 1.7
1232+75	703.51	703.01	698.25	3.0 3.4 3.4
1233+00	703.84	703.34	698.86	4.1 - -
1233+25	704.17	703.67	699.26	1.4 1.4 1.5
1233+50	704.41	703.91	700.29	<1.2 <1.3 <1.2
1233+75	704.48	703.98	700.68	

DIMENSIONS	EVALUATED LOCATIONS
WALL HEIGHT (FEET)	6.5 6.2 5.9
EXPOSED WALL HEIGHT (FEET)	4.5 4.2 3.9
MINIMUM LENGTH OF REINFORCEMENT (FEET)	6.0 6.0 6.0
WALL STATION	1230+46 1231+96 1233+75
BORING USED	9-1 8-2 8-3
FACTORED BEARING RESISTANCE (PSF)	2,200 2,200 2,200
CAPACITY TO DEMAND RATIO (CDR)	
SLIDING (CDR>1.0)	1.7 1.8 1.7
ECCENTRICITY (CDR>1.0)	3.0 3.4 3.4
OVERALL STABILITY (CDR>1.0)	4.1 - -
BEARING RESISTANCE (CDR>1.0)	1.4 1.4 1.5
SETTLEMENT (INCHES)	<1.2 <1.3 <1.2

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE F.F.
ALL STATIONS AND ALL ELEVATIONS ARE IN FEET. WALL STATIONS AND ELEVATIONS ARE LISTED IN THE GEOMETRY TABLE ON THIS SHEET.
ALL STATIONS ARE ALONG THE R/L FOR R-59-32.
EXCAVATION BEHIND REINFORCED SOIL ZONE IS INCLUDED IN BID ITEM "BACKFILL STRUCTURE".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR FOR THE MOST ECONOMICAL DESIGN. THE COST OF TURNING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD".
PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. 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 PROVIDED IN THE GEOMETRY TABLE ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

THE RETAINING WALL BLOCKS SHALL BE STRAIGHT FACE. COLOR SHALL BE SELECTED BY THE ENGINEER.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 PSF.

FINAL DESIGN FOR INTERNAL STABILITY AND EXTERNAL SLIDING AND ECCENTRICITY IS THE RESPONSIBILITY OF THE WALL DESIGNER.

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.

ULTIMATE DESIGN STRESSES:
CONCRETE MASONRY $f_c = 3,500$ psi
HIGH STRENGTH BAR STEEL REINFORCEMENT $f_y = 60,000$ psi



William C. Decker
SDR
10/23/15

Addendum No. 01
ID 4996-01-58
Revised Sheet 290
October 26, 2015

1 10/22/15 SLEEVE FOR FENCE FOUNDATION TLK
NO. DATE REVISION BY
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURE R-59-32
BRN. KAG. P.E.
SECTION, NOTES & QUANTITIES
SHEET 2 OF 3
290

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20151110021PROJECT(S):
4996-01-58FEDERAL ID(S):
WISC 2015144

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0310	465.0105 Asphaltic Surface	2,559.000 TON	.	.	.	.
0320	502.0100 Concrete Masonry Bridges	322.000 CY	.	.	.	.
0330	504.0500 Concrete Masonry Retaining Walls	485.000 CY	.	.	.	.
0340	505.0405 Bar Steel Reinforcement HS Bridges	9,960.000 LB	.	.	.	.
0350	505.0605 Bar Steel Reinforcement HS Coated Bridges	53,320.000 LB	.	.	.	.
0360	505.0615 Bar Steel Reinforcement HS Coated Retaining Walls	43,920.000 LB	.	.	.	.
0370	506.0605 Structural Steel HS	456,234.000 LB	.	.	.	.
0380	516.0500 Rubberized Membrane Waterproofing	60.000 SY	.	.	.	.
0390	520.8000 Concrete Collars for Pipe	1.000 EACH	.	.	.	.
0400	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	1.000 EACH	.	.	.	.