



Wisconsin Department of Transportation

Division of Transportation Systems Development

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

April 4, 2018

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

NOTICE TO ALL CONTRACTORS:

Proposal #06: 1090-30-70, WIS 2018190
Rock Freeway
Crowbar Dr to CTH I
IH 43
Waukesha County

2445-09-70
North Avenue
115th St to Union Pacific RR Bridge
Local Street
Milwaukee County

Letting of April 10, 2018

This is Addendum No. 03, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
75	Survey Project 2445-09-70, Item SPV.0105.0002

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
205.0100	Excavation Common	CY	8,413	-4,029	4,384
SPV.0035.0100	EBS Excavation	CY	421	-202	219
SPV.0035.0101	EBS Backfill	CY	421	-202	219

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
113	Miscellaneous Quantities (revised quantity for Item 205.0100 Excavation Common, SPV.0035.0100 EBS Excavation and SPV.0035.0101 EBS Backfill))
355	Structure R-67-131 – Stability Evaluation Table Updated
361	Structure R-67-132 – Stability Evaluation Table Updated
368	Earthwork Quantities (revised cut and fill quantities)
369	Earthwork Quantities (revised cut and fill quantities)

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. 03
1090-30-70, 2445-09-70
April 4, 2018

Special Provisions

75. Survey Project 2445-09-70, Item SPV.0105.0002.

*Replace entire section titled **A Description** with the following:*

A Description

This special provision describes modifying standard spec 105.6 and 650 to define the requirements for construction staking for this contract. Conform to standard spec 105.6 and 650 except as modified in this special provision.

Replace standard spec 105.6.1(2) with the following:

The department will not perform any construction staking for this contract. Obtain engineer's approval before performing all survey required to lay out and construct the work under this contract.

Replace standard spec 650.1 with the following:

This section describes the contractor-performed construction staking required under individual contract bid items to establish the horizontal and vertical position for all aspects of construction including:

- base
- sidewalk and Curb Ramps
- curb and gutter
- concrete base
- pavement markings (temporary and permanent)
- supplemental control
- traffic control items

Schedule of Items

Attached, dated April 4, 2018, are the revised Schedule of Items Pages 2 and 13.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 113, 355, 361, 368 and 369.

END OF ADDENDUM

EARTHWORK SUMMARY

Division	From/To Station	Location	Common Excavation (1)	SPV.0035.0100 EBS Excavation (CY) (3)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	SPV.0035.0101 EBS Backfill (CY) (6)	Unexpanded Fill	Expanded Fill (7)	Mass Ordinate +/- (8)	Waste	Borrow	Comment:
			Cut (2)				Factor		Factor			Item #208.0100	
Division 1 IH 43	842+90 TO 854+48	Shoulders & MSE	3,350	168	0	3,350	1.68	351	1.25	3,079	3,079	0	
Division 1 Subtotal			3,350	168	0	3,350	1.68	351	439	3,079	3,079	0	
Division 2 Sunnyslope Road	24+33 TO 27+81	Mainline	447	22	0	447	22	30	38	432	432	0	
Division 2 Subtotal			447	22	0	447	22	30	38	432	432	0	
Division 3 Crowbar Drive	16+10 TO 24+00	Mainline	587	29	0	587	29	191	238	378	378	0	
Division 3 Subtotal			587	29	0	587	29	191	238	378	378	0	
Grand Total		Total Common Exc	4,384	219	0	4,384	219	572	715	3,888	3,888	0	

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unusable Pavement Material is included in Cut.
- 3) EBS Excavation SPV.0035.0100 (CY) to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut - Salvaged/Unusable Pavement Material
- 6) EBS Backfill SPV.0035.0101 (CY) - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
- 7) Expanded Fill. Factor = 1.25
Depending on selections:
Or
Or
Or
- 8) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor

Addendum No. 03
ID 1090-30-70
Revised sheet 113
April 4, 2018

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	TOTAL
513.2001.0000	RAILING PIPE R-67-131	LF	192
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	2
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	257
SPV0165-4020	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-131	SF	3,550
NON-BID ITEMS			
	NAME PLATE	EACH	1
	PREFORMED JOINT FILLER	SIZE	3/4"
	NON-BITUMINOUS JOINT SEALER	SIZE	3/4"
	EXPANDED POLYSTYRENE	SIZE	1"

ALL ITEMS ARE CATEGORY 3000

Addendum No. 03
ID 1090-30-70
Revised Sheet 355
April 4, 2018



GENERAL NOTES

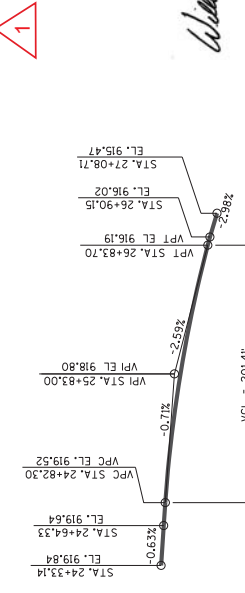
DRAWINGS SHALL NOT BE SCALED.
BEVEL EXPOSED EDGES OF CONCRETE 3/4", UNLESS NOTED OTHERWISE.
COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WAUKESHA COUNTY ZONE, NAD 83 (2011), ALL STATIONS, AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 COGZ.
THESE PLANS ARE FOR A PRECAST CONCRETE PANEL MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL.
THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS, AND MATERIALS LIST FOR THE WALL AND BACKFILL WITHIN THE TECHNICAL ASSIGNMENT TO THE RETAINING WALL MANUFACTURER. THE CONTRACTOR SHALL PROVIDE TECHNICAL ASSIGNMENT TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-131".
THE DESIGN OF THE WALL SHALL ASSUME 2'-0" MAXIMUM OF FUTURE EXCAVATION BELOW THE FINISHED GRADE IN FRONT OF THE WALL FOR MAINTENANCE.
THE DESIGN OF THE WALL IN FRONT OF THE ABUTMENT SHALL INCLUDE THE HORIZONTAL EARTH LOADS AND 240 PSF LIVE LOAD SURCHARGE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS.
THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 1.
DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN ON SHEET 3 AND ROADWAY CROSS SECTIONS.
THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-131".
THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-131".
ALL DIMENSIONS ARE ALONG THE FRONT FACE OF WALL, UNLESS SHOWN OTHERWISE.
ONLY WALL CONCRETE PANEL MSE WALL SYSTEMS THAT USE STRIP TYPE SOIL REINFORCEMENT THAT ARE HINGED AT THE PANEL CONNECTION CAN BE USED FOR THIS PROJECT.
SOIL REINFORCEMENT MAY BE PLACED UP TO A MAXIMUM OF 15" FROM PERPENDICULAR IF NECESSARY TO AVOID THE PILE SLEEVES.
BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER, UNLESS SHOWN OTHERWISE.
ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE TO BE EPOXY COATED.
THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF WALL R-67-131 WITH THE NORTH ABUTMENT OF BRIDGE B-67-359.
THE QUANTITIES OF CONCRETE MASONRY AND BAR STEEL REINFORCEMENT FOR CAST-IN-PLACE COPING ARE INCLUDED ON THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-131".
THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-131" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 3'-0" BELOW FINISHED GRADE.
PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE THE GENERAL CONCEPTS AND LOCATIONS OF THE WALL SYSTEM. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.
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.
THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES LABELED AS PROPOSED MAY BE INSTALLED BY OTHERS PRIOR TO THIS CONTRACT.
SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.
CONTRACTOR SHALL SUPPLY AND INSTALL A NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS.
PROVIDE A RUBBERED SURFACE TREATMENT IN ACCORDANCE WITH SECTION 502.3.7.3 TO ALL EXPOSED SURFACES OF THE COPING.

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS	EVALUATED LOCATIONS
WALL HEIGHT (FEET, INCLUDES EMBEDMENT) (H)	17
EXPOSED WALL HEIGHT (FEET)	14
MINIMUM LENGTH OF REINFORCEMENT/H RATIO UNDER BRIDGE DECK**	1.1
MINIMUM LENGTH OF REINFORCEMENT/H RATIO OUTSIDE OF BRIDGE DECK**	0.7
WALL STATION	11+11.94
BORING USED	B-2
CAPACITY TO DEMAND RATIO (CDR)▲	
SOIL CONDITION	
UNDRAINED	
SLIDING (CDR)▲	1.27
ECCENTRICITY (CDR)▲	1.01
OVERALL STABILITY (CDR)▲	3.33
BEARING RESISTANCE (CDR)▲	1.30
FACTORED BEARING RESISTANCE (PSF)	9,750

** MINIMUM LENGTH OF REINFORCEMENT/H SHALL BE AS STATED IN ABOVE TABLE OR 8 FEET. THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM MANUAL. THESE DESIGNED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGNED LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNED LOCATIONS.

▲ CDR ASSUMES GRANULAR BACKFILL MATERIAL BEHIND WALL IN A FULLY DRAINED CONDITION.
● A REDUCTION FACTOR OF 0.75 FOR THE WALL SUPPORTING NO STRUCTURAL COMPONENT.

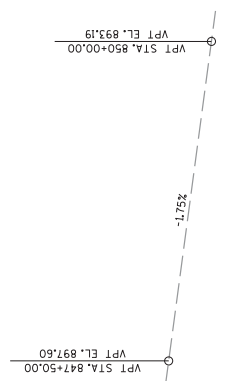


PROFILE GRADE LINE - SUNNYSLOPE ROAD

SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	SHORT-TERM (UNDRAINED)		LONG-TERM (DRAINED)	
		FRICTION ANGLE (DEGREES)	COHESION (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	---	30	---
COHESIONLESS FILL	125	30	---	30	---
EL. 898.00 - EL. 893.00	125	30	---	30	---
STIFF TO VERY STIFF LEAN CLAY	130	---	3,000	30	---
EL. 878.00 - EL. 875.00	130	32	---	32	---

* DESIGN WALL FOR THESE VALUES



PROFILE GRADE LINE - IH 43 SB

STATE PROJECT NUMBER
1090-30-70

NO. DATE
1 4/4/18

STABILITY EVALUATION TABLE
WAR

REVISION
BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-67-131

BY SRK
DATE: JSR

QUANTITIES, GENERAL NOTES & PROFILES

SHEET 2 OF 6

355

PLOT SCALE: 1" = 8'-00.0000"

PLOT NAME: #FILES

PLOT BY: GRAEF

FILE NAME: L:\Jobs2015\20150143\CAD\Structural\qgn\00\R_01\QgnR131L080104.qgn

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	TOTAL
513.2001.0020	RAILING PIPE R-67-132	LF	204
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	2
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	20
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	254
SPV.085.4030	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-132	SF	4,000
NON-BID ITEMS			
	NAME PLATE	EACH	1
	PREFORMED JOINT FILLER	SIZE 3/4"	
	NON-BITUMINOUS JOINT SEALER	SIZE 3/4"	
	EXPANDED POLYSTYRENE	SIZE 1"	

ALL ITEMS ARE CATEGORY 3010

Addendum No. 03
ID 1090-30-70
Revised Sheet 361
April 4, 2018



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.
COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 88 (2011).
THESE PLANS ARE FOR A PRECAST CONCRETE PANEL MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL.
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 DESIGNER TO VERIFY THAT THE WALL DESIGN IS MECHANICALLY STABILIZED EARTH R-67-132. THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-132" INCLUDES THE DESIGN OF THE WALL, SHALL ASSUME 2'-0" MAXIMUM OF FUTURE EXCAVATION BELOW THE FINISHED GRADE IN FRONT OF THE WALL FOR MAINTENANCE.
DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN ON SHEET "3" AND ROADWAY CROSS SECTIONS.
THE DESIGN OF THE WALL IN FRONT OF THE ABUTMENT SHALL INCLUDE THE HORIZONTAL BEAM SEATS.
THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 1.
THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-67-132".
THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER MECHANICALLY STABILIZED EARTH R-67-132".
ALL DIMENSIONS ARE ALONG THE FRONT FACE OF WALL, UNLESS SHOWN OTHERWISE.
ONLY WALL CONCRETE PANEL MSE WALL SYSTEMS THAT USE STRIP TYPE SOIL NAILS AND ANCHORS THAT ARE HINGED AT THE PANEL CONNECTION CAN BE USED FOR THIS PROJECT.
SOIL REINFORCEMENT MAY BE PLACED UP TO A MAXIMUM OF 15" FROM PERPENDICULAR IF NECESSARY TO AVOID THE PALE SLEEVES.
BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER, UNLESS SHOWN OTHERWISE.
ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE TO BE EPOXY COATED.
THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF WALL R-67-132 WITH THE SOUTH ABUTMENT OF BRIDGE B-67-359.
THE QUANTITIES OF CONCRETE MASONRY AND BAR STEEL REINFORCEMENT FOR CAST-IN-PLACE CONCRETE ARE INCLUDED ON THE ITEM "WALL CONCRETE PANEL, MECHANICALLY STABILIZED EARTH R-67-132".
THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL, MECHANICALLY STABILIZED EARTH R-67-132" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 3'-0" BELOW FINISHED GRADE.
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 MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED SOIL SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.
THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE. UTILITIES LABELED AS PROPOSED MAY BE INSTALLED BY OTHERS PRIOR TO THIS CONTRACT.
SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.
CONTRACTOR SHALL SUPPLY AND INSTALL A NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS.
PROVIDE A RUBBERED SURFACE TREATMENT IN ACCORDANCE WITH SECTION 502.3.7.3 TO ALL EXPOSED SURFACES OF THE COPING.

STATE PROJECT NUMBER
1090-30-70

WALL EXTERNAL & OVERALL STABILITY EVALUATION

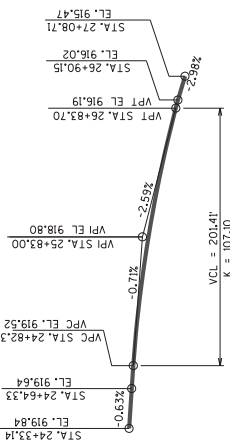
DIMENSIONS	EVALUATED LOCATIONS
WALL HEIGHT (FEET, INCLUDES EMBEDMENT) (H)	18
EXPOSED WALL HEIGHT (FEET)	15
MINIMUM LENGTH OF REINFORCEMENT/H RATIO UNDER BRIDGE DECK **	1.0
MINIMUM LENGTH OF REINFORCEMENT/H RATIO OUTSIDE OF BRIDGE DECK **	0.7
WALL STATION	11-35.27
BORING USED	B-1
CAPACITY TO DEMAND RATIO (CDR) ▲	
SOIL CONDITION	UNDRAINED
SLIDING (CDR) 1.0	1.08
ECCENTRICITY (CDR) 1.0	1.09
OVERALL STABILITY (CDR) 1.0	3.53
BEARING RESISTANCE (CDR) 1.0	1.11
FACTORED BEARING RESISTANCE (PSF)	9,750
	9,750

** MINIMUM LENGTH OF REINFORCEMENT/H SHALL BE AS STATED IN ABOVE TABLE OR 8 FEET LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM. LOCATIONS WHERE THESE DESIGNED LOCATIONS REPRESENT A CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGNED LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNED LOCATIONS.
▲ CDR ASSUMES GRANULAR BACKFILL MATERIAL BEHIND WALL IN A FULLY DRAINED CONDITION.
● A REDUCTION FACTOR OF 0.75 FOR THE WALL SUPPORTING NO STRUCTURAL COMPONENT.

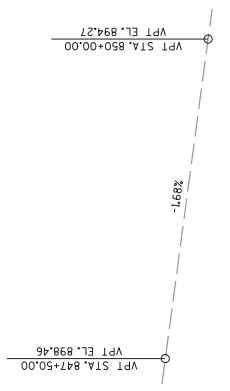
SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	SHORT-TERM (UNDRAINED)		LONG-TERM (DRAINED)	
		FRICTION ANGLE (DEGREES)	COHESION (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	---	30	---
COHESIVE FILL RETAINED SOIL *	125	---	2,000	30	---
COHESIVE FILL	125	---	2,000	30	---
STIFF TO VERY STIFF, LEAN CLAY	130	---	3,000	30	---
EL. 895.00 - EL. 875.00					
EL. 895.00 - EL. 875.00					

* DESIGN WALL FOR THESE VALUES



PROFILE GRADE LINE - SUNNYSLOPE ROAD



PROFILE GRADE LINE - IH 43 NB

William C. DeLuca
04/04/18

QUANTITIES, GENERAL NOTES & PROFILES 361

1	4/4/18	STABILITY EVALUATION TABLE	WAR
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE R-67-132			
BY	SRK	DATE	JSR
BY	CCO	DATE	JSR

Division 2 Sunnyslope Road

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate	
			Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut		Expanded Fill
							Note 1	Note 2	Note 3	Note 1	1.25	Note 5	Note 8
24+33	2432.87	0.00	66.68	0.00	0.53	0.00	0	0	0	0	0	0	0.00
24+50	2450.00	17.13	71.09	0.00	7.69	0.00	44	0	3	44	3	0	40.43
24+67	2466.57	16.57	86.22	0.00	0.00	0.00	48	0	2	92	6	0	85.77
24+75	2475.00	8.43	830.51	0.00	0.32	0.00	143	0	0	235	6	0	228.75
27+00	2700.00	0.00	135.19	0.00	2.99	0.00	0	0	0	235	6	0	228.75
27+03	2703.37	3.37	16.91	0.00	4.61	0.00	9	0	0	245	7	0	237.65
27+18	2717.90	14.52	68.44	0.00	18.36	0.00	23	0	6	267	15	0	252.89
27+25	2725.00	7.10	68.22	0.00	13.25	0.00	18	0	4	285	20	0	265.67
27+50	2750.00	25.00	79.84	0.00	10.95	0.00	69	0	11	354	34	0	320.21
27+58	2758.14	8.14	82.72	0.00	2.16	0.00	24	0	2	378	36	0	342.24
27+75	2775.00	16.86	81.23	0.00	0.85	0.00	51	0	1	430	37	0	392.26
27+81	2780.86	5.86	79.32	0.00	1.10	0.00	17	0	0	447	38	0	409.41
Column Totals							447	0	30	0			

Addendum No. 03
ID 1090-30-70
Revised sheet 368
April 4, 2018

Notes:
 1 - Cut
 2 - Salvaged/Unusable Pavement Material
 3 - Fill
 4 - Expanded EBS
 5 - EBS Backfill
 6 - Mass Ordinate

Cut includes Salvaged/Unusable Pavement material
 This does not show up in cross sections nor is it shown in these sheets. Refer to Summary Table for this roadway's quantity.
 Does not include Unusable Pavement Exc volume
 Will be backfilled with Borrow
 This is to be filled with Select Borrow material. EBS Backfill Factor = 1.0. Item number 208.1100
 If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor)]

Division 3 Crowbar Drive

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate					
			Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cut		Expanded Fill	EBS Backfill			
			Note 1	Note 2	Note 3	Note 1	Note 2	Note 3	Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7	Note 8	
16+10	1609.95	0.00	16.12	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0.00	8.79	
16+25	1625.00	15.05	15.44	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	23.27	23.27	
16+50	1650.00	25.00	15.83	0.00	0.00	0.00	0.00	14	0	0	0	0	0	0	38.21	38.21	
16+75	1675.00	25.00	16.47	0.00	0.00	0.02	0.00	15	0	0	0	0	0	0	47.11	47.11	
16+83	1683.19	8.19	42.64	0.00	0.00	0.34	0.00	9	0	0	0	0	0	0	69.95	69.95	
17+00	1700.00	16.81	36.11	0.00	0.00	3.96	0.00	25	0	1	0	0	0	0	101.83	101.83	
17+25	1725.00	25.00	34.24	0.00	0.00	13.24	0.00	33	0	8	0	0	0	0	108.47	108.47	
17+40	1739.91	14.91	34.25	0.00	0.00	14.71	0.00	19	0	8	0	0	0	0	128.55	128.55	
17+50	1750.00	10.09	32.55	0.00	0.00	10.30	0.00	12	0	5	0	0	0	0	167.69	167.69	
17+75	1775.00	25.00	29.09	0.00	0.00	4.32	0.00	29	0	7	0	0	0	0	224.35	224.35	
18+00	1800.00	25.00	61.61	0.00	0.00	0.60	0.00	42	0	2	0	0	0	0	154.71	154.71	
18+25	1825.00	25.00	62.52	0.00	0.00	0.79	0.00	57	0	1	0	0	0	0	168.04	168.04	
18+50	1850.00	25.00	59.13	0.00	0.00	216.85	0.00	56	0	101	0	0	0	0	175.30	175.30	
18+57	1856.76	6.76	56.03	0.00	0.00	6.18	0.00	14	0	28	0	0	0	0	185.76	185.76	
18+76	1876.47	19.71	49.69	0.00	0.00	4.28	0.00	39	0	4	0	0	0	0	189.73	189.73	
18+81	1881.04	4.57	41.50	0.00	0.00	0.10	0.00	8	0	0	0	0	0	0	189.46	189.46	
18+90	1890.21	9.17	21.67	0.00	0.00	1.17	0.00	11	0	0	0	0	0	0	189.44	189.44	
19+00	1900.00	9.79	6.57	0.00	0.00	3.90	0.00	5	0	1	0	0	0	0	198.78	198.78	
19+04	1903.67	3.67	0.28	0.00	0.00	4.70	0.00	0	0	1	0	0	0	0	205.68	205.68	
22+98	2298.38	0.00	0.49	0.00	0.00	2.04	0.00	0	0	0	0	0	0	0	219.60	219.60	
23+00	2300.00	1.62	3.38	0.00	0.00	1.66	0.00	0	0	0	0	0	0	0	235.94	235.94	
23+16	2316.34	16.34	32.82	0.00	0.00	2.61	0.00	11	0	1	0	0	0	0	292.41	292.41	
23+25	2325.00	8.66	52.86	0.00	0.00	31.50	0.00	14	0	5	0	0	0	0	348.26	348.26	
23+41	2340.52	15.52	56.20	0.00	0.00	16.99	0.00	31	0	14	0	0	0	0			
23+50	2350.00	9.48	58.81	0.00	0.00	0.58	0.00	20	0	3	0	0	0	0			
23+75	2375.00	25.00	64.34	0.00	0.00	0.35	0.00	57	0	0	0	0	0	0			
24+00	2400.00	25.00	56.98	0.00	0.00	0.20	0.00	56	0	0	0	0	0	0			
Column Totals			587	0	191	0	0	587	0	191	0	0	0	0	0	0	0

Addendum No. 03
ID 1090-30-70
Revised sheet 369
April 4, 2018

Notes:
1 - Cut
2 - Salvaged/Unusable Pavement Material
3 - Fill
4 - Expanded EBS
5 - EBS Backfill
6 - Mass Ordinate

Cut includes Salvaged/Unusable Pavement material
This does not show up in cross sections nor is it shown in these sheets. Refer to Summary Table for this roadway's quantity.
Does not include Unusable Pavement Exc volume
Will be backfilled with Borrow
This is to be filled with Select Borrow material. EBS Backfill Factor = 1.0. Item number 208.1100
If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]



Proposal Schedule of Items

Proposal ID: 20180410006 Project(s): 1090-30-70, 2445-09-70

Federal ID(s): WISC 2018190, N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	204.0175 Removing Concrete Slope Paving	1,281.000 SY	_____.	_____.
0034	204.0220 Removing Inlets	6.000 EACH	_____.	_____.
0036	204.0245 Removing Storm Sewer (size) 0001. 12-INCH	340.000 LF	_____.	_____.
0038	204.0245 Removing Storm Sewer (size) 0002. 30-INCH	19.000 LF	_____.	_____.
0040	204.0245 Removing Storm Sewer (size) 0003. 42-INCH	183.000 LF	_____.	_____.
0042	204.9060.S Removing (item description) 1001. LUMINAIRES	156.000 EACH	_____.	_____.
0044	204.9060.S Removing (item description) 1002. SIGN LIGHTING	1.000 EACH	_____.	_____.
0046	205.0100 Excavation Common	4,384.000 CY	_____.	_____.
0048	206.1000 Excavation for Structures Bridges (structure) 0010. B-67-114	LS	LUMP SUM	_____.
0050	206.1000 Excavation for Structures Bridges (structure) 0020. B-67-359	LS	LUMP SUM	_____.
0052	208.0100 Borrow	425.000 CY	_____.	_____.
0054	210.1500 Backfill Structure Type A	632.000 TON	_____.	_____.
0056	213.0100 Finishing Roadway (project) 0001. 1090-30-70	1.000 EACH	_____.	_____.
0058	213.0100 Finishing Roadway (project) 0002. 2445-09-70	1.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180410006 Project(s): 1090-30-70, 2445-09-70

Federal ID(s): WISC 2018190, N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0374	646.8120 Marking Curb Epoxy	150.000 LF	_____	_____
0376	646.8220 Marking Island Nose Epoxy	4.000 EACH	_____	_____
0378	646.9000 Marking Removal Line 4-Inch	23,656.000 LF	_____	_____
0380	649.0105 Temporary Marking Line Paint 4-Inch	11,308.000 LF	_____	_____
0382	649.0150 Temporary Marking Line Removable Tape 4-Inch	28,474.000 LF	_____	_____
0384	659.1125 Luminaires Utility LED C	81.000 EACH	_____	_____
0386	659.1130 Luminaires Utility LED D	73.000 EACH	_____	_____
0388	659.1215 Luminaires Underdeck LED C	16.000 EACH	_____	_____
0390	690.0150 Sawing Asphalt	4,152.000 LF	_____	_____
0392	690.0250 Sawing Concrete	1,086.000 LF	_____	_____
0394	715.0415 Incentive Strength Concrete Pavement	500.000 DOL	1.00000	500.00
0396	715.0502 Incentive Strength Concrete Structures	4,896.000 DOL	1.00000	4,896.00
0398	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	6,000.000 HRS	5.00000	30,000.00
0400	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	9,000.000 HRS	5.00000	45,000.00
0402	SPV.0035 Special 0100. EBS EXCAVATION	219.000 CY	_____	_____
0404	SPV.0035 Special 0101. EBS BACKFILL	219.000 CY	_____	_____