						SHEET NUI	M.		1			PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEE T
5	6	7	16	17	19	29						01/S>2/40		EXT	TOTAL			NO.
	-					'											PAVEMENT (CONT.)	
				591								591	609	26000	591	FT	CURB, TYPE 6	
						'											TRAFFIC CONTROL	
					47							47	621	00100	47	EACH	RPM	
					47	 '						47	621	54000	47		RAISED PAVEMENT MARKER REMOVED	
			1			 '						1	625	75401	1		LIGHT POLE REMOVED, AS PER PLAN	4
	-				0.27							3 0.27	626 644	00110 00200	3 0.27		BARRIER REFLECTOR, TYPE 2, (ONE-WAY) LANE LINE, 4"	
					0.17							0.17	644	00300	0.17	MILE	CENTER LINE	
					110	+						110	644	00500	110		STOP LINE	
					228	+						228	644	01500	228		DOTTED LINE, 4"	
					91							91	644	01501	91		DOTTED LINE, 4", AS PER PLAN	4
					2							2	644	01300	2		LANE ARROW	
					227							227	644	00400	227	FT	CHANNELIZING LINE, 8"	
																	RETAINING WALLS (RWI)	
						3						3	SPECIAL	20365000	3		SETTLEMENT PLATFORM	29
						13	\sim		\sim		\sim	YLSY		MIOO	(LSY)	\sim	CONFERNDAMS AND XXXXIVANION BRAICING YYY	
					\ \rac{1}{2}	444						444	512	10001	444	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN	29
						44X		لك		رير		X44X	J 362 X	<u> </u>	X44	USYL	SEALING OF CONCRETE SURFACES XEPOXY YURETHANE) AS PER PLAN	29
						159						159	607	39900	159	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC	
						3,988						3,988	840	20001	3,988	SF	MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN	3
						652						652	840	21000	652		WALL EXCAVATION	
						336						336	840	22001	336	SY	FOUNDATION PREPARATION, AS PER PLAN	29
						323						323	840	25010	323		6" DRAINAGE PIPE, PERFORATED	
						2.5						2.5	840	25020	2.5		6" DRAINAGE PIPE, NON-PERFORATED	
						159						159	840	26000	159	FT	CONCRETE COPING	
						3,988						3,988	840	26050	3,988		AESTHETIC SURFACE TREATMENT	
						5						5	840	27000	5	DAY	ON-SITE ASSISTANCE	
						LS						LS	867	00101	LS		TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN	3
																	STRUCTURE REPAIR (HAM-SR264-10.42)	36
						 '											MAINTENANCE OF TRAFFIC	
		160				+						160	614	11110	160	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
8						1						8	614	12384	8		WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
23												23	614	13310	23	EACH	BARRIER REFLECTOR, TYPE 1, (BI-DIRECTIONAL)	
23						1						23	614	13350	23		OBJECT MARKER, ONE WAY	
23	0.27											0.27	614	20550	0.27	MILE	WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT	
												0.29	614	21200	0.29		WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
												0.17	614	21550	0.17		WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
0.29	0.17											0.69	614	22200	0.69		WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I	
0.29	0.17																	
0.29												980	614	24400	980		WORK ZONE DOTTED LINE, CLASS I, 4", 740.06, TYPE I	
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SEALING OF CONCRETE SURFACES (PERMANENT GRAFFITI PROTECTION):

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO SUPPLEMENT 1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY GRAFFITI COATING IN

ACCORDANSE WITH THE MANUFACTURER'S RRINTED INSTRUCTIONS. PAYMENT FOR THE SEALING OF CONCRETE SURFACES (PERMANENT GRAFFITI PROTECTION) IS PROVIDED IN THE RETAINING WALL QUANTITY ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN

FOUNDATION BEARING RESISTANCE:

THE FOUNDATION BEARING RESISTANCE IS LISTED IN THE TABLE BELOW:

FOUNDATION BEARING RESISTANCE									
WALL NUMBER	WALL L	IMITS	FACTORED BEARING RESISTANCE						
WHEE HOMBEN	FROM STA.	TO STA.							
1	550+58	552+25	5000 PSF						

SEALING OF CONCRETE SURFACES (EPOXY-URETHANE):

THE FINISH COAT COLOR SHALL BE FEDERAL COLOR NO. 595A-26622, LIGHT NEUTRAL.

AESTHETIC SURFACE TREATMENT:

ALL MSE PANELS SHALL HAVE A "FRACTURED FIN"
FINISH WITH A MINIMUM RELIEF OF 1.5". THE MANUFACTURER
SHALL FABRICATE AND THE CONTRACTOR SHALL INSTALL THE
PANELS SUCH THAT THE VERITCAL FINS AND VALLEYS
IN THE FRACTURED FIN AESTHETIC TREATMENT ALIGN
VERTICALLY ACROSS ADJACENT PANELS FROM THE
BOTTOM OF THE WALL TO THE TOP.

ITEM 840 - FOUNDATION PREPARATION, AS PER PLANS

PROVIDE GRANULAR MATERIAL TYPE C CONSISTING OF
CRUSHED CARBONATE STONE MEETING FOR ALL WORK
ASSOCIATED WITH THEM 840 FOUNDATION PREPARATION
AFTER THE FOUNDATION HAS BEEN ACCEPTED, SPREAD, PLACE
AND COMPACT 24 INCHES OF GRANULAR MATERIAL TYPE C
ACCORDING TO THE REQUIREMENTS OF 204.07.

ITEM 840 - SELECT GRANULAR BACKFILL

PAYMENT FOR SELECT GRANULAR BACKFILL FOR THE MSE WALL IS PROVIDED IN THE ROADWAY QUANTITY, ITEM 203 -EMBANKMENT. AS PER PLAN

ITEM 867 - SELECT GRANULAR BACKFILL

PAYMENT FOR SELECT GRANULAR BACKFILL FOR THE TEMPORARY MSE WALL IS PROVIDED IN THE ROADWAY QUANTITY, ITEM 203 - EMBANKMENT, AS PER PLAN.

ITEM 840 - NATURAL SOIL

PAYMENT FOR NATURAL SOIL FOR THE MSE WALL IS PROVIDED IN THE ROADWAY QUANTITY, ITEM 203 -EMBANKMENT

MINIMUM SOIL REINFORCEMENT LENGTHS

BASED ON THE EXTERNAL STABILITY ANALYSIS OF THE MECHANICALLY STABILIZED EARTH WALLS, THE FOLLOWING MINIMUM LENGTHS ARE AS FOLLOWS:
STRAP LENGTH SHALL BE 70% OF THE WALL HEIGHT.
AT NO CASE SHALL THE MINIMUM SOIL REINFORCEMENT BE LESS THAN 8 FEET.

H= THE WALL HEIGHT AS DETERMINED ACCORDING TO THE SUPPLEMENTAL SPECIFICATION 840.04

ITEM SPECIAL - SETTLEMENT PLATFORM

DESCRIPTION: THIS ITEM CONSISTS OF FURNISHING
CONSTRUCTING, AND MAINTAINING SETTLEMENT PLATFORMS AND
OBTAINING SETTLEMENT READINGS AS REQUIRED BY THE PLANS OR
AS DIRECTED BY THE ENGINEER. AT THE OPTION AND EXPENSE OF
THE CONTRACTOR, ADDITIONAL SETTLEMENT PLATFORMS MAY BE
INSTALLED AT LOCATIONS APPROVED BY THE ENGINEER.
SETTLEMENT READINGS SHALL BE TAKEN WEEKL Y DURING
CONSTRUCTION AND DURING ANY SPECIFIED WAITING PERIOD. THE
READINGS SHALL BE PLOTTED ON GRAPH PAPER PRESENTING
DEFORMATION (ON THE NEGATIVE Y-AXIS) AND FILL HEIGHT (ON
THE POSITIVE Y-AXIS) VERSUS TIME (ON THE X-AXIS). IN ORDER
TO CREATE THE GRAPH, USE THE SETTLEMENT PLATFORM
SPREADSHEET LOCATED AT:
hftps://www.dof.state.oh.us/Divisions/

Engineering/Geotechnical/geotechnical_documents/
Blank_Settlement_Reading_Plots-English.xls
IN THE OGE WEBSITE PUBLICATIONS AND DOCUMENTS SECTION.
PREPARE A SEPARATE GRAPH IN THE SPREADSHEET FOR EACH
SETTLEMENT PLATFORM. PROVIDE THE SETTLEMENT PLATFORM
DESIGNATION NUMBER, STATION, AND OFFSET ON EACH TAB IN
THE SPREADSHEET. A COPY OF EACH CUMULATIVE PLOT SHALL BE
SENT TO THE ENGINEER AND THE DISTRICT GEOTECHNICAL
ENGINEER AFTER EACH SETTLEMENT READING IS RECORDED.

THE DEPARTMENT WILL CONSIDER VIBRATING WIRE SETTLEMENT MONITORING PLATFORMS IN LIEU OF THE CONVENTIONAL SETTLEMENT PLATFORMS. THE CONTRACTOR SHOULD PROVIDE DETAILS OF THE PROPOSED VIBRATING WIRE SETTLEMENT PLATFORMS AS WELL AS DESIGN DRAWINGS OF THE PROPOSED PLATFORM AND CABLING LAYOUT TO THE ENGINEER AT LEAST 5 DAYS PRIOR TO CONSTRUCTION. THE DEPARTMENT WILL REQUIRE 10 WORKING DAYS FOR REVIEW AND APPROVAL. THE DESIGN DRAWINGS SHOULD ILLUSTRATE THE PROPOSED VIBRATING WIRE SETTLEMENT PLATFORM LOCATIONS WITH ALL EXISTING AND PROPOSED SITE FEATURES TO VERIFY THE PROPOSED CABLING WILL NOT CONFLICT WITH EXISTING FACILITIES, PROPOSED FACILITIES, OR UTILITIES. NO ADDITIONAL PAYMENT WILL BE PROVIDED IF THE CONTRACTOR ELECTS TO UTILIZE VIBRATING WIRE SETTLEMENT PLATFORMS.

MATERIALS: SOUND LUMBER SUCH AS 3/4" EXTERIOR GRADE PLYWOOD SHALL BE USED FOR THE BASE. THE PIPE SHALL BE 2 1/2" STANDARD BLACK PIPE WITH THREADED FITTINGS AS SHOWN ON THE PLANS. A STEEL PLA TE (36" x 36" x 1/8") MAY BE SUBSTITUTED FOR THE LUMBER FOR THE PLATFORMS, AT THE CONTRACTOR'S OPTION.

THE CONTRACTOR MAY UTILIZE VIBRATING WIRE SETTLEMENT MONITOR DEVICES IN LIEU OF THE SETTLEMENT PLA TFORMS A T NO ADDITIONAL COST TO THE PROJECT. THE CONTRACTOR MUST SUBMIT THE PROPOSED VIBRATING WIRE SETTLEMENT MONITORING EQUIPMENT AND METHODS TO THE DISTRICT GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS OR FIELD INSTALLATION.

CONSTRUCTION METHODS: THE PLATFORM SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS. THE PLATFORM SHALL BE SET ON A LEVEL SURFACE. PLACE THE SETTLEMENT PLATFORMS AT THE BOTTOM OF THE GRANULAR MATERIAL, TYPE C USED IN THE ITEM 840 - FOUNDATION PREPARATION WORK. FIRMLY SECURE THE SETTLEMENT PLATFORM ON THE SS840 SUBGRADE BY DRIVING NO. 4 REINFORCING BAR STAKES WITH A 90 DEGREE BEND AT EACH CORNER OF THE SETTLEMENT PLATFORM. THE PIPE SHALL BE FIRMLY SECURED TO THE PLATFORM AND SHALL BE MAINTAINED IN A PLUMB POSITION DURING THE PLACEMENT OF THE EMBANKMENT. THE PIPE SHALL BE MARKED AT 1 FOOT INTERVALS WITH PROJECT ELEVATIONS TO FACILITATE MEASUREMENT OF THE DEPTH AND ELEVATION OF FILL. THE CONTRACTOR SHALL STOP WORK IN ANY LOCATION WHERE THE SETTLEMENT PLATFORM HAS BEEN DISTURBED OR DAMAGED. PLATFORMS OR PIPES DAMAGED OR DISPLACED DURING

CONSTRUCTION SHALL BE RESTORED TO THEIR PROPER CONDITION AT THE CONTRACTOR'S EXPENSE.

- 1. NEW SECTIONS OF PIPE SHALL BE ADDED TO THE TOP OF THE PIPE AS THE EMBANKMENT HEIGHT RISES. IN THIS CASE, THE INCREASE IN THE LENGTH OF THE RISER PIPE SHALL BE DETERMINED AND RECORDED AS WELL AS THE DATE IN WHICH THIS OPERATION WAS PERFORMED. DOCUMENT THE DATE OF PIPE INCREASE ON THE SETTLEMENT GRAPH.
- 2. THE RISER PIPE SHALL HAVE GUARD STAKES OR BE MARKED WITH HIGH-VISIBILITY FLAGS OR RIBBONS IN ORDER TO PROTECT IT FROM CONSTRUCTION EQUIPMENT. SETTLEMENT PLATFORMS MAY BE PLACED BEYOND THE EDGE OF PAVEMENT BUT INSIDE THE BREAK OF THE SLOPE IN ORDER TO BE OUT OF THE WAY AS MUCH AS POSSIBLE.
- 3. IF THE PLATFORM OR PIPE IS DISTURBED OR DAMAGED, WORK SHALL BE STOPPED IN THAT LOCATION UNTIL THE CONTRACTOR RESTORES THE SETTLEMENT PLATFORM AND RISER PIPE TO THEIR PROPER CONDITION. DAMAGED SETTLEMENT PLATFORMS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 4. PRIOR TO PAVING, THE RISER PIPE SHALL BE CUT OFF 2
 FEET BELOW THE TOP OF THE FINISHED SURFACE OF THE
 SUBGRADE OR THE FINISHED GROUND SURFACE, WHICHEVER I
 APPLICABLE.

WAITING PERIOD: THE WAITING PERIOD SHALL NOT BE CONSIDERED TO BEGIN UNTIL ALL FILL LOADING HAS BEEN PLACED TO THE DESIGN SUBGRADE LEVEL FOR BRIDGE APPROACHES OR FINAL EMBANKMENT LEVEL IN AREAS BEYOND THE BRIDGE APPROACH. THE ANTICIPATED WAITING PERIOD IS SUMMARIZED BELOW FOR EACH SETTLEMENT PLATFORM. INCLUDE SPECIFIC ACTIVITIES IN THE CONSTRUCTION SCHEDULE FOR THE SETTLEMENT WAITING PERIOD.

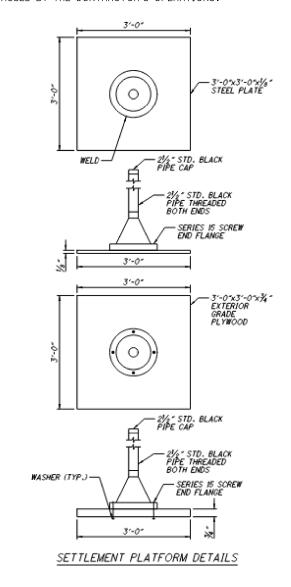
WAITING PERIOD = 30 DAYS

NO CONSTRUCTION ABOVE THE TOP SOIL REINFORCEMENT LAYER (INCLUDING WALL COPING OR CONCRETE RAILING AND MOMENT SLAB ABOVE THE WALLS) OR PAVING SUPPORTED BY EMBANKMENT BEHIND THE WALL SHALL BEGIN UNTIL SETTLEMENT WAITING PERIOD HAS BEEN TERMINATED BY THE ENGINEER.

ITEM SPECIAL - SETTLEMENT PLATFORM (CONT.)

METHOD OF MEASUREMENT: THE NUMBER OF SETTLEMENT PLATFORMS TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF SETTLEMENT PLATFORMS COMPLETED, MAINTAINED, AND ACCEPTED BY THE ENGINEER.

BASIS OF PAYMENT: PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE EACH FOR ITEM SPECIAL - SETTLEMENT PLATFORM WHICH IS COMPENSATION FOR CONSTRUCTING, MAINTAINING, AND MONITORING THE SETTLEMENT PLATFORMS INCLUDING FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. PAYMENT SHALL NOT BE MADE FOR SETTLEMENT PLATFORMS WHICH BECOME USELESS DUE TO DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS.



	ESTIMATED MSE WALL QUANTITIES									
	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION					
	Y20X	68008		YEAY	SPECYALY- SKTIKEMKNI PLANFORMY					
Y	512	10001	444	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN					
V	\512\	NAMIN	14AV	くとく	SKALING DE KONÈRETE DREACED (EROXX-UNTHINE), AS PER PLAN					
	607	39900	159	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC					
	840	20000	3988	SF	MECHANICALLY STABILIZED EARTH WALL					
	840	21000	652	CY	WALL EXCAVATION					
	840	22001	336	SY	FOUNDATION PREPARATION, AS PER PLAN					
	840	25010	323	FT	6" DRAINAGE PIPE, PERFORATED					
	840	25020	2.5	FT	6" DRAINAGE PIPE, NON-PERFORATED					
	840	26000	159	FT	CONCRETE COPING					
	840	26050	3988	SF	AESTHETIC SURFACE TREATMENT					
	840	27000	5	DAYS	ON-SITE ASSISTANCE					
	867	00100	L UMP		TEMPORARY WIRE FACED MECHANICALLY STABILIZED					

HAM-SR264-10,42 PID No. 25349

8

WALL

29 44