

EMBANKMENTS - PERMISSIBLE RATES OF CONSTRUCTION

EMBANKMENTS AT THE FOLLOWING LOCATIONS SHALL BE CONSTRUCTED USING NORMAL RATES OF CONSTRUCTION UP THE TO ELEVATIONS LISTED IN THE TABLE BELOW. ABOVE THESE MAXIMUM ELEVATIONS, THE SPECIFIED RATES OF CONSTRUCTION ARE REQUIRED TO INCREASE SHORT TERM SLOPE STABILITY FACTORS OF SAFETY TO ACCEPTABLE LEVELS:

STATION ANALYZED	MAX EMBANKMENT ELEVATION USING NORMAL CONSTRUCTION RATES (FEET)	PERMISSIBLE CONSTRUCTION RATE (FEET/WEEK)	APPROX. STATION INTERVAL FOR RATE CONSTRUCTION
136+00	548	13	136+25 to 146+00
160+00	578	10.7	148+00 to 162+00
219+00	605	3.2	215+00 to 228+50
293+00	545	5	289+00 to 295+00
322+00	609	3.6	316+00 to 324+00
329+00	590	1.3	324+50 to 332+50
340+00	623	11.2	338+50 to 342+00
371+00	593	4.6	342+00 to 374+00
REINFORCED SLOPES			
198+00	565	6.1	196+75 to 199+87
297+68	549	16.4	296+75 to 298+58
300+81	549	16.3	300+06 to 301+00
377+50	573	8.2	376+60 to 378+34, Ramp 1 376+35 to 377+94

ITEM 203 - EMBANKMENT, AS PER PLAN (TYPE C)

THIS ITEM SHALL CONSIST OF PROVIDING AND PLACEMENT OF THE DRAINAGE LAYER AS SHOWN ON THE CROSS-SECTIONS. THE DRAINAGE LAYER MUST BE CONSTRUCTED TO PREVENT INTERNAL EROSION OR PIPING OF THE EMBANKMENT DURING OR AFTER A FLOOD EVENT. ON-SITE SANDSTONE OR SILTSTONE MAY BE USED IF THE MATERIAL HAS A SLAKE DURABILITY INDEX GREATER THAN 90 PERCENT ACCORDING TO ASTM D 4644-87. MATERIAL DESIGNATED FOR THE DRAINAGE LAYER SHALL BE TESTED PRIOR TO PLACEMENT FOR SLAKE DURABILITY INDEX AT A MINIMUM OF ONE TEST EVERY 20,000 CY OR CHANGE IN MATERIAL, AS DIRECTED BY THE ENGINEER. ITEM 712.09 TYPE A GEOTEXTILE FABRIC WITH AN AOS LESS THAN OR EQUAL TO 0.3 MM SHALL BE PLACED ABOVE THE DRAINAGE LAYER TO ASSIST SEPARATION OF THE EMBANKMENT SOIL FROM THE DRAINAGE MATERIAL. THE DRAINAGE LAYER SHALL BE CONSTRUCTED TO A TOP ELEVATION OF 557 WHERE SHOWN ON THE CROSS-SECTIONS. SEE THE DETAIL BELOW FOR ADDITIONAL INFORMATION REGARDING MATERIAL SIZE AND DRAINAGE LAYER BUILDUP. ROCK SPALLS AND ROCK FINES ARE ACCEPTABLE UP TO AN AVERAGE OF 20% OF THE MATERIAL AS DETERMINED BY VOLUME AND VISUAL INSPECTION. AREAS OF PLACED MATERIALS WITH EXCESS FINES MAY BE REJECTED BY THE ENGINEER. SOIL AND NON-DURABLE ROCK SHALL BE LIMITED TO LESS THAN 5% OF THE MATERIAL AS DETERMINED BY VOLUME AND VISUAL INSPECTION.

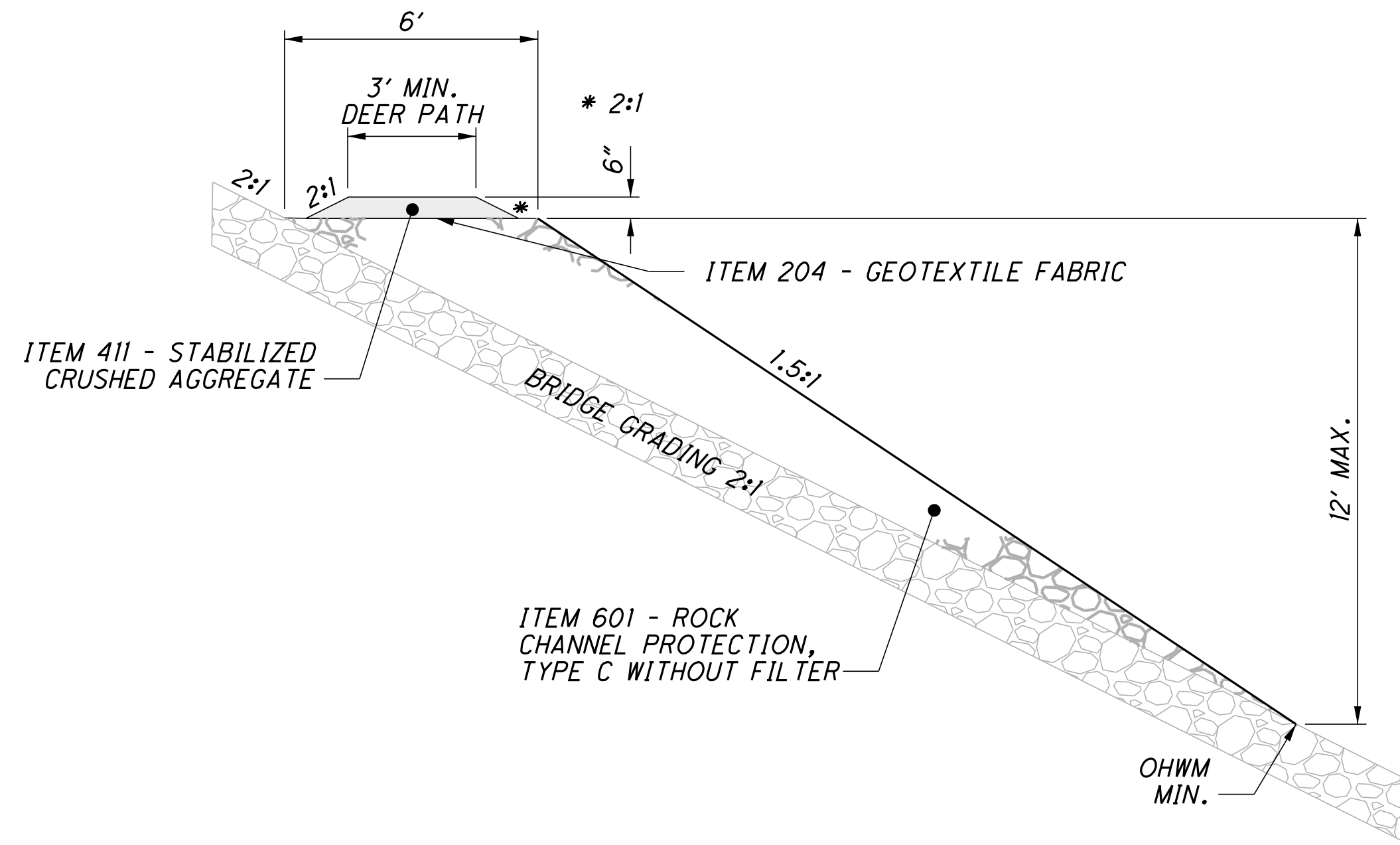
ELEVATION	GEOTEXTILE FABRIC	FILL HEIGHT
557		
555		
550	MATERIAL SHALL CONSIST PREDOMINANTLY OF ROCK CONSISTENT TO THE SIZE OF TYPE C OR D DUMPED ROCK PER 703.19.	MATERIAL PROVIDED SHOULD BE LARGE ENOUGH TO CHOK OFF THE VOIDS IN THE UNDERLYING LAYER AND SMALL ENOUGH TO PROVIDE A SMOOTH SURFACE FOR THE GEOTEXTILE FABRIC.
	MATERIAL SHALL CONSIST PREDOMINANTLY OF ROCK CONSISTENT TO THE SIZE OF TYPE A, B, C OR D DUMPED ROCK PER 703.19.	

PAYMENT FOR THE ABOVE WORK INCLUDING ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE PAID FOR AT THE CONTRACT PRICE PER CUBIC YARD OF ITEM 203 - EMBANKMENT, AS PER PLAN (TYPE C).

CONSTRUCTED DEER PATH

THE CONTRACTOR IS TO CONSTRUCT A PROPOSED DEER PATH AT THE LOCATIONS LISTED IN THE TABLE BELOW AND ACCORDING TO THE DETAIL BELOW. THE PATH HAS NOT BEEN SHOWN IN IT'S ENTIRETY IN THE PLANS, BUT QUANTITIES HAVE BEEN INCLUDED TO PROVIDE A DEER PATH THAT EXTENDS TO THE LIMITS OF THE ROCK CHANNEL PROTECTION AT THE BRIDGE ABUTMENTS AND TRANSITIONED DOWN TO NATURAL GROUND.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO COMPLETE THIS WORK.



DEER PASSAGE THROUGH RCP

LOCATION	LENGTH	TOP OF ROCK CHANNEL PROTECTION ELEVATION	204	411	601
			GEOTEXTILE FABRIC SY	STABILIZED CRUSHED AGGREGATE CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER CY
S.R. 7 - BRIDGE LAW-7-0711P REAR ABUTMENT	200	561	111.11	14.81	266.67
S.R. 7 - BRIDGE LAW-7-0711P FORWARD ABUTMENT	157	561	87.22	11.63	209.33
S.R. 7 - BRIDGE LAW-7-0713L/R REAR ABUTMENT	248	561	137.78	18.37	330.67
S.R. 7 - BRIDGE LAW-7-0713L/R FORWARD ABUTMENT	330	561	183.33	24.44	440.00
TOTALS			519.44	69.26	1246.67
TOTALS CARRIED TO GENERAL SUMMARY			520	70	1247

EMBANKMENTS - REINFORCED SOIL SLOPES

CONSTRUCT REINFORCED SOIL SLOPE ACCORDING TO SUPPLEMENTAL SPECIFICATION 863 WITH THE EXCEPTION THAT NON-DURABLE SHALE (AS DEFINED IN CMS 703.16D) IS ANTICIPATED AND ALLOWED FOR USE. MATERIALS OTHER THAN NON-DURABLE SHALE BUT MEETING SS 863 MAY BE PERMITTED AT THE DISCRETION OF THE ENGINEER, HOWEVER, ADJUSTMENTS TO THE REINFORCEMENT SPACINGS AND LENGTHS MAY BE NECESSARY.

PRIMARY REINFORCEMENT TO BE ITEM 863 UNIAXIAL OR BIAXIAL GEOGRID TYPE P1 AND P3. SECONDARY REINFORCEMENT TO BE ITEM 863 BIAXIAL GEOGRID TYPE S1. SECONDARY REINFORCEMENT SPACING OF 1 FOOT AND WIDTH OF 6 FEET. REINFORCEMENT NOT WRAPPED AT SLOPE FACE.

ESTIMATED GEOGRID QUANTITIES WERE BASED ON THE MAXIMUM FILL SECTION. GEOGRID LAYERS CAN BE DISCONTINUED WHEN EXITING GROUND IS HIGHER THAN THE GEOGRID LAYER ELEVATION. ACTUAL GEOGRID QUANTITIES WILL DEPEND ON THE AMOUNT OF UNDERCUTTING, BENCHING, AND SURFACE PREPARATION PERFORMED.

EMBANKMENTS AT THE FOLLOWING LOCATIONS SHALL BE REINFORCED WITH GEOGRID AS INDICATED IN THE FOLLOWING TABLES.

STA. 134+56 TO STA. 136+25, RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH FT	863	
			GEOGRID, TYPE P1 SY	GEOGRID, TYPE S1 SY
525	P1	90	5280	
526	P1	90	5280	
527	P1	90	5280	
528	P1	85	4987	
529	P1	85	4987	
530	S1	6		352
531	S1	6		352
532	P1	50	2933	
533	S1	6		352
534	S1	6		352
535	P1	50	2933	
536	S1	6		352
537	S1	6		352
538	P1	50	2933	
539	S1	6		352
540	S1	6		352
541	P1	50	2933	
542	S1	6		352
543	S1	6		352
544	S1	6		352
545	S1	6		352
546	S1	6		352
547	P1	40	2347	
548	S1	6		352
549	S1	6		352
550	S1	6		352
551	S1	6		352
552	S1	6		352
553	P1	40	2347	
554	S1	6		352
555	S1	6		352
556	S1	6		352
557	S1	6		352
558	S1	6		352
559	P1	40	2347	
560	S1	6		352
561	S1	6		352
562	S1	6		352
563	S1	6		352
TOTALS CARRIED TO SHEET			44587	9504

GENERAL NOTES

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SHEET NUM.																PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
34	35	36	37	38	41	72	73	74	78	79	82	83	84	629	629A	1041	01/NHS/01	EXT	TOTAL				
ROADWAY																							
LS																	LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	34
	141					1											1	202	20010	1	EACH	HEADWALL REMOVED	
						1,229	871				27,852	14,596	5,369				50,306	202	23000	50,306	SY	PAVEMENT REMOVED	
						1,955	307										2,536	202	35100	2,536	FT	PIPE REMOVED, 24" AND UNDER	
						855	130										1,033	202	35200	1,033	FT	PIPE REMOVED, OVER 24"	
						3,881	2,619										6,500	202	38000	6,500	FT	GUARDRAIL REMOVED	
						2											2	202	58000	2	EACH	MANHOLE REMOVED	
						6											6	202	58100	6	EACH	CATCH BASIN REMOVED	
					3												3	SPECIAL	20264000	3	EACH	PLUGGING AND VENTING GAS AND/OR OIL WELL	41
	99																99	SPECIAL	20270000	99	FT	FILL AND PLUG EXISTING CONDUIT, 21" AND 36"	35
						4,965	1,834										6,799	202	75000	6,799	FT	FENCE REMOVED	
						381	291	4,923,784	267	1,101							1	202	75250		EACH	GATE REMOVED	
						334	291	4,523,577	1,932	195							4,929,886	203	10000	4,929,886	CY	EXCAVATION	
								582,155									4,531,419	203	20000	45,344	CY	EMBANKMENT	
								582,155									582,155	203	20001	582,155	CY	EMBANKMENT, AS PER PLAN (TYPE C)	38
								7,459									7,459	203	22000	7,459	CY	EMBANKMENT, USING NATURAL SOILS, 703.16.A	
12								68,291			201,919	34,615	21,411	1,826	376		12	SPECIAL	20307500	12	EACH	PNEUMATIC PIEZOMETER	34
								16,878									328,438	204	10000	328,438	SY	SUBGRADE COMPACTION	
								16,878									16,878	204	13000	16,878	CY	EXCAVATION OF SUBGRADE	
								16,878									16,878	204	30010	16,878	CY	GRANULAR MATERIAL, TYPE B	
110				520				68,055									110	204	45000	110	hour	PROOF ROLLING	
			LS														68,575	204	50000	68,575	SY	GEOTEXTILE FABRIC	
			LS														LS	208	10000	LS		PRE-BLAST CONDITION SURVEY	
			LS														LS	208	12000	LS		BLASTING CONSULTANT	
			LS														LS	208	13000	LS		AIR BLAST AND NOISE CONTROL	
			LS														LS	208	14000	LS		VIBRATION CONTROL AND MONITORING	
			LS														LS	208	16000	LS		HYDROLOGIST	
		258															258	209	60201	258	STA	LINEAR GRADING, AS PER PLAN	36
						18,840.9	1,420.3										20,261.2	606	15050	20,261.2	FT	GUARDRAIL, TYPE MGS	
						1,037.5	5,100										6,137.5	606	15100	6,137.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
															137.5		137.5	606	15200	137.5	FT	GUARDRAIL, TYPE MGS HALF POST SPACING WITH LONG POSTS	
						137.5	237.5										375	606	15550	375	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS	
						100	50										150	606	17350	150	FT	GUARDRAIL, TYPE MGS, 25' LONG-SPAN	
						24	12										36	606	26150	36	EACH	ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016)	
						15	6								1		22	606	26550	22	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
						24	7										31	606	35002	31	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
						3	2										5	606	35102	5	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
						2											2	606	60012	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	
						1											1	606	60022	1	EACH	IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL), (55 MPH, 69" HAZARD WIDTH)	
									1								1	606	60028	1	EACH	IMPACT ATTENUATOR, TYPE 2 (BIDIRECTIONAL), (30 MPH, 24" WIDE HAZARD)	
																43,587	43,587	607	15000	43,587	FT	FENCE, TYPE 47	
																15,174	15,174	607	23000	15,174	FT	FENCE, TYPE CLT	
							4										4	607	98100	4	EACH	FENCE, MISC.: GATE, AS PER PLAN	37
						6,989	1,087			34							34	622	10121	34	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN	37A
																	8,076	622	10160	8,076	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
									1								1	622	24840	1	EACH	CONCRETE BARRIER END SECTION, TYPE B	
						3	1										4	622	25050	4	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
																	3	623	38500	3	EACH	MONUMENT ASSEMBLY, TYPE C	
																	106	623	40500	106	EACH	REFERENCE MONUMENT, TYPE A	
																	30	623	40900	30	EACH	MONUMENT, MISC.: RIGHT-OF-WAY MONUMENT RESET	34
																	LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
																	LS	623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
																4	4	625	32000	4	EACH	GROUND ROD	
														3			4	SPECIAL	69050350	4	EACH	MAILBOX REMOVED AND RESET	37A
					482,309												482,309	863	00100	482,309	SY	GEOGRID, TYPE PI	

GENERAL SUMMARY

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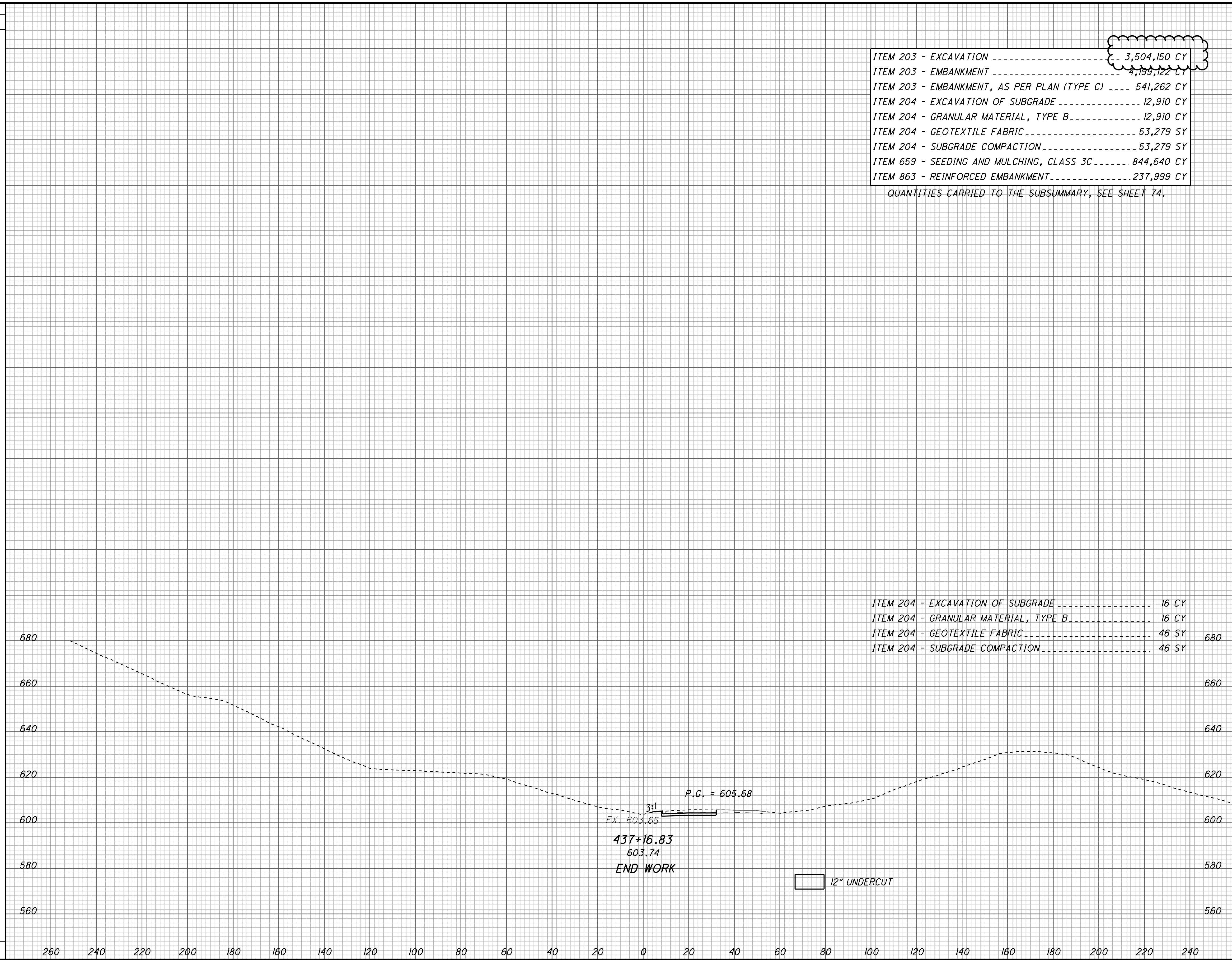
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SHEET NO.	STATION		SIDE	203				204				304	601			602	605	611		659	670	863
	FROM	TO		EXCAVATION CY	EMBANKMENT CY	EMBANKMENT, AS PER PLAN (TYPE C) CY	EMBANKMENT, USING NATURAL SOILS, 703.16A CY	EXCAVATION OF SUBGRADE CY	GRANULAR MATERIAL, TYPE B CY	GEOTEXTILE FABRIC SY	SUBGRADE COMPACTION SY	AGGREGATE BASE SY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER CY	DETENTION BASIN FILTER SY	CONCRETE MASONRY CY	6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN FT	CATCH BASIN, NO. 2-3, AS PER PLAN EACH	15" CONDUIT, TYPE C FT	SEEDING AND MULCHING, CLASS 3C SY	SLOPE EROSION PROTECTION SY	REINFORCED EMBANKMENT CY
418	114+30.42	S.R. 7 437+16.83	RT/LT	3504150	4199122	541262		12910	12910	53279	53279								844640		237999	
424	116+33.24	RAMP C 123+68.17	RT/LT	1696	4746														6325			
430	115+19.00	RAMP D 120+82.54	RT/LT	14984	52			1206	1206	1188	1188								6501			
436	373+63.81	RAMP I 380+81.60	RT/LT		94784														6040		50807	
441	387+15.12	RAMP J 391+15.81	RT/LT	82404	198			187	187	1087	1087								11456			
456	384+99.45	RAMP K 397+51.56	RT/LT	600221	2027			789	789	4549	4549								59627			
464	379+89.28	RAMP L 389+81.39	RT/LT	139	5052														16975		102171	
501	11+00.00	S.R. 243 21+54.00	RT/LT	242716	2913			513	513	2799	2799								31648			
579	45+42.93	S.R. 775 70+75.00	RT/LT	97045	81378			435	435	1544	1544								42055		133410	
472	13+40.00	BRENTWOOD EMERGENCY ACCESS 22+85.54	RT/LT	748	9222	10209													5396			
475	10+00.00	HENSON HOLLOW EMERGENCY ACCESS 12+60.04	RT/LT	143	2425														1834			
478	12+00.00	C.R. 104 17+03.97	RT/LT	2123	3986														3792			
481	10+00.00	C.R. 32 15+00.00	RT/LT	2164	1951														2511			
485	10+10.00	LYNN LANE 13+90.68	RT/LT	2259	838			308	308	909	909								3046			
489	10+05.78	DOGWOOD LANE EXTENSION 13+46.62	RT/LT	690	233														1369			
546	9+90.51	C.R. 69 56+73.01	RT/LT	269898	113092	23726		422	422	2465	2465								91495			
552	10+18.30	C.R. 118 14+76.01	RT/LT	51044	913	6958		108	108	235	235								13375			
558	10+18.28	C.R. 2 17+58.28	RT/LT	26942	645														12099			
670		DETENTION BASIN #1	RT/LT	364.98		762.87				57.32	12.74	260.12	12.78	553.42	0.75	46	1	39	1258.80	510.37		
671		DETENTION BASIN #2	RT/LT	1106.54		9.75				110.79	24.62	204.01	4.44	345.88	0.75	57	1	62	245.67	474.60		
672		DETENTION BASIN #3	RT/LT	2864.02		5781.23				67.53	15.01	254.89	25.00	580.91	0.75	51	1	56	2917.14	1629.53		
673		DETENTION BASIN #4	RT/LT	20081.62		904.64						427.87	114.67	676.04	0.75	61	1	62	1340.25	2313.09		
TOTALS				4923783.16	4523577	582155	7458.49	16878	16878	68055	68290.64	52.37	1146.89	156.89	2156.25	3.00	215	4	219	1165945.86	4927.59	524387
TOTALS CARRIED TO GENERAL SUMMARY				4923784	4523577	582155	7459	16878	16878	68055	68291	53	1147	157	2157	3	215	4	219	1165946	4928	524387

CALCULATED	SLP
CHECKED	ALB
SUBSUMMARY	
LAW - 7 - 2.17	
74	
1247	

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SEEDING	
END WIDTH	SO. YDS.
14	
III	
III	



ITEM 204 - EXCAVATION OF SUBGRADE	16 CY	
ITEM 204 - GRANULAR MATERIAL, TYPE B	16 CY	
ITEM 204 - GEOTEXTILE FABRIC	46 SY	680
ITEM 204 - SUBGRADE COMPACTION	46 SY	

ITEM 203 - EXCAVATION	3,504,150 CY
ITEM 203 - EMBANKMENT	4,199,122 CY
ITEM 203 - EMBANKMENT, AS PER PLAN (TYPE C)	541,262 CY
ITEM 204 - EXCAVATION OF SUBGRADE	12,910 CY
ITEM 204 - GRANULAR MATERIAL, TYPE B	12,910 CY
ITEM 204 - GEOTEXTILE FABRIC	53,279 SY
ITEM 204 - SUBGRADE COMPACTION	53,279 SY
ITEM 659 - SEEDING AND MULCHING, CLASS 3C	844,640 CY
ITEM 863 - REINFORCED EMBANKMENT	237,999 CY

QUANTITIES CARRIED TO THE SUBSUMMARY, SEE SHEET 74.

END AREA		VOLUME		CALCULATED SLP	CHECKED ALB
CUT	FILL	CUT	FILL		
9	1	47	1		
		47	1		

CROSS SECTIONS S.R. 7
STA. 437+16.83

LAW - 7 - 2.17

418
1247

ESTIMATED QUANTITIES (PARTICIPATION CODE 02/NHS/08)

CALCULATED BY: EDA 3/7/2018
CHECKED BY: ALH 3/7/2018

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	GEN.	SEE SHEET
203	10000	3124	CY	EXCAVATION	3124	
503	21100	949	CY	UNCLASSIFIED EXCAVATION	949	
509	10000	51501	LB	EPOXY COATED REINFORCING STEEL	51501	
511	46010	173	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	173	
511	46510	219	CY	CLASS QC1 CONCRETE, FOOTING	219	
512	10100	180	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	180	
512	33300	2868	SY	TYPE A WATERPROOFING	2868	
518	21200	74	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	74	
518	40000	74	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	74	
518	40010	30	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	30	
601	11001	108	SY	RIPRAP, TYPE D, AS PER PLAN	108	2/9
601	32104	321	CY	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC	321	
601	34200	782	CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	782	
611	97400	452	FT	CONDUIT, MISC.: 22' DIA., TYPE A, 707.03	452	

GENERAL NOTES

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2014, INCLUDING 2015 AND 2016 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

DESIGN DATA:

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 K.S.I.
(SUBSTRUCTURE)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 K.S.I.

DESIGN LOADING:

HL-93
FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/FT²

FOUNDATION BEARING RESISTANCE:

HEADWALL FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 3.021 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 4.256 KIPS PER SQUARE FOOT. THE BEARING RESISTANCE IS 3.025 KIPS PER SQUARE FOOT FOR SERVICE AND 5.5 KIPS PER SQUARE FOOT FOR STRENGTH.

ITEM 511 CLASS QC1 CONC. MISC. PAVED INLET:

THE ITEM INCLUDES ALL MATERIAL, LABOR, AND ACCESSORIES NECESSARY TO FURNISH AND PLACE THE PAVED CONCRETE INLET AND CUTOFF WALLS.

ITEM 601 RIPRAP, TYPE D, AS PER PLAN:

CONSTRUCT A RIPRAP CUTOFF WALL AS DETAILED ON SHEET [5/9].

ITEM 611 22'-0" CONDUIT, TYPE A:

WORK SHALL CONFORM TO ITEM 611 PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES. STEEL STRUCTURAL PLATE (707.03) WITH MINIMUM 8 GA. THICKNESS PER ODOT DURABILITY DESIGN SPREAD SHEET, THE PAVED INVERT SPECIFIED BY THE DURABILITY DESIGN SPREADSHEET SHALL BE OMITTED AS THE CULVERT INVERT IS FILLED WITH TYPE C ROCK CHANNEL PROTECTION.

ANCHOR BOLTS FOR ANCHORING BOTH ENDS OF THE METAL PIPE, MEETING ASTM A307 AND GALVANIZED ACCORDING TO ASTM A153, SHALL BE INCLUDED IN THE PRICE BID PER FOOT OF ITEM 611 22'-0" CONDUIT, TYPE A, 707.03, AS PER PLAN.

ABBREVIATIONS:

- APPROX. - APPROXIMATELY
- ABUT. - ABUTMENTS
- BF - BACK FACE
- B/ - BOTTOM OF
- BRG. - BEARINGS
- ℄ - CENTERLINE
- CJ - CONSTRUCTION JOINT
- CLR. - CLEAR
- CONC. - CONCRETE
- CONST. - CONSTRUCTION
- CONT. - CONTINUED
- DIA. - DIAMETER
- DWG. - DRAWING
- EF - EACH FACE
- EL. - ELEVATION
- EQ. - EQUAL
- EXIST. - EXISTING
- ℄ - FLOW LINE
- FF - FRONT FACE
- GFRP - GLASS FIBER REINFORCED POLYMER
- H.W. - HIGH WATER
- LT - LEFT
- MAX. - MAXIMUM
- M.C. - MECHANICAL CONNECTOR
- MISC. - MISCELLANEOUS
- NO. - NUMBER
- NPCPP - NON-PERFORATED CORRUGATED PLASTIC PIPE
- OHWM - ORDINARY HIGH WATER MARK
- PCPP - PERFORATED CORRUGATED PLASTIC PIPE
- RCP - ROCK CHANNEL PROTECTION
- RT. - RIGHT
- SPA. - SPACE
- SP - SETTLEMENT PLATFORM
- STA. - STATION
- STD. - STANDARD
- STR - STRAIGHT
- T/ - TOP OF
- T&B - TOP AND BOTTOM
- TYP. - TYPICAL
- U.N.O. - UNLESS NOTED OTHERWISE
- YR. - YEAR

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DESIGN AGENCY:  Stantec
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 DATE: 2/2024
 REVIEWED: BSM
 STRUCTURE FILE NUMBER: 4400348
 DRAWN: JWS
 REVISIONS:
 DESIGNED: EDA
 CHECKED: MRS
 GENERAL NOTES & ESTIMATED QUANTITIES
 LAW-7-0510
 S.R. 7 OVER BENT CREEK
 LAW-7-2.17
 PID No. 75923
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