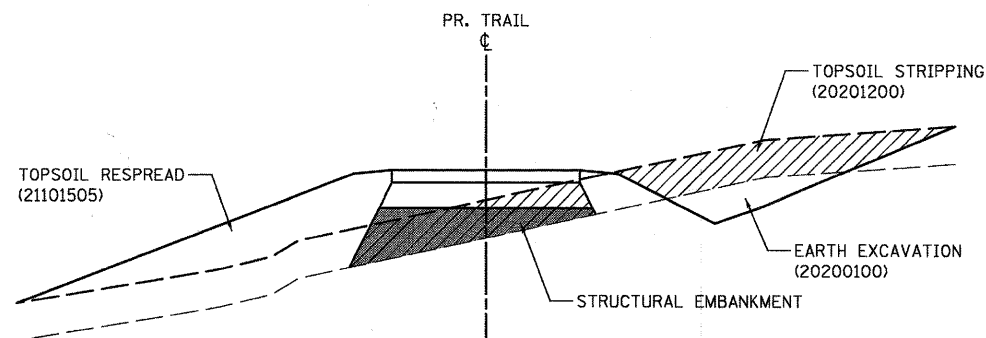


# EARTHWORK SCHEDULE

LOCATION	EARTHWORK					TOPSOIL				SUBGRADE IMPROVEMENT		
	20200100					20201200		21101505		20201200	Z0042002	21001000
	EARTH EXCAVATION (CUT)	ROCK EXCAVATION	EXCAVATION TO BE USED IN FILL WITH SF (15%)	EMBANKMENT STRUCTURAL (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	TOPSOIL TO BE USED FOR TOPSOIL RESPREAD SF (15%)	TOPSOIL EXCAVATION AND PLACEMENT	TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	POROUS GRANULAR EMBANKMENT SUBGRADE	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)
<b>ALIGNMENT A</b>												
STA. 100+00 TO 134+00	3,940	0	3,349	754	2,595	3,757	3,193	1,912	1,281			
<b>ALIGNMENT B</b>												
STA. 200+00 TO 207+00	745	0	633	223	410	733	623	350	273			
<b>ALIGNMENT C</b>												
STA. 50+81.26 TO 54+42.67	46	0	39	30	9	213	181	92	89			
<b>ALIGNMENT D</b>												
STA. 300+28.57 TO 312+00	290	0	247	147	100	1,051	893	198	695			
<b>PARKING LOT AND ENTRANCE</b>												
	500	0	425	141	284	893	759	512	247			
<b>ESTIMATED</b>										200	200	600
<b>TOTAL</b>	<b>5,521</b>	<b>0</b>	<b>4,693</b>	<b>1,295</b>	<b>3,393</b>	<b>6,647</b>	<b>5,649</b>	<b>3,064</b>	<b>2,585</b>	<b>200</b>	<b>200</b>	<b>600</b>
<b>PLAN QUANTITY</b>	<b>5,525</b>					<b>6,850</b>		<b>3,065</b>			<b>200</b>	<b>600</b>
SHRINKAGE FACTORS: EARTH EXCAVATION:		15%										
TOPSOIL EXCAVATION:		15%										



**TYPICAL EARTHWORK CROSS SECTION**

**EARTHWORK GENERAL NOTES**

1. ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS.
2. SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT IS ESTIMATED FOR THE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.
3. A SOILS INVESTIGATION WAS NOT COMPLETED SPECIFICALLY FOR THIS PROJECT. HOWEVER, THERE WAS AN OVERALL GEOTECHNICAL REPORT COMPLETED FOR THE STEARNS ROAD STAGE 2 PROJECT (06-00214-10-BR) WHICH INCLUDED 12-14 MONITORING WELL BORINGS THAT FALL WITHIN THE LIMITS OF THIS PROJECT. INFORMATION CONTAINED IN THESE BORINGS WAS USED IN PREPARATION OF THE EARTHWORK AND RELATED QUANTITY CALCULATIONS. THE BORINGS HAVE BEEN INCLUDED IN THE PLANS FOR REFERENCE ONLY.
4. AS INDICATED IN THE MONITORING WELL BORINGS, THE TOPSOIL THICKNESS WAS ESTIMATED AT 12-24 INCHS. TWELVE (12) INCHES WAS ASSUMED ON THIS PROJECT FOR THE PURPOSE OF CALCULATING TOPSOIL STRIPPING QUANTITIES.
5. IF UNDERCUTS ARE ENCOUNTERED, UNDERCUTS WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. AFTER TOPSOIL STRIPPING AND VEGETATION CLEARING AND PRIOR TO UNDERCUTTING, THE SUBGRADE WILL BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER IN ACORDANCE WITH THE IDOT SUBGRADE STABILITY MANUAL TO DETERMINE REMEDIAL TREATMENT.
6. TESTING OF SUBGRADES AND EMBANKMENTS WILL BE REQUIRED. TESTING REQUIREMENTS WILL BE PER THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SUBGRADE STABILITY MANUAL. IF PROOF ROLLS ARE REQUIRED BY THE ENGINEER, THE COST SHALL BE CONSIDERED INCLUDED IN THE COST OF EXCAVATION.
7. IN ADDITION TO ANY AREAS SHOWN ON THE PLANS, 200 CY OF POROUS GRANULAR EMBANKMENT SUBGRADE HAS BEEN PROVIDED FOR LOCATIONS WHERE SOILS TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE SOILS ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL AND ROLL USING FULL LOAD SEMI), IF UNSUITABLE AND/OR UNSTABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.
8. EARTH EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE FOR REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.

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