

ITEM 862 - EXCAVATION

REMOVAL OF ALL WASTE MATERIAL INCLUDING SCALED AND TRIM BLASTED MATERIAL, TALUS DEBRIS (SOIL AND ROCK) BETWEEN BASE OF CUT SLOPES, AND ROADWAY AS DETERMINED BY THE ENGINEER. IN PLACE BEDROCK SHALL NOT BE REMOVED. LIMITS ARE DETERMINED FOR ESTIMATING PURPOSES AND WILL BE ADJUSTED BASED ON FIELD CONDITIONS. LARGE DIMENSION BLOCKS MAY BE PRESENT WHICH WILL REQUIRE BEING BROKEN INTO SMALLER PARTICLES TO FACILITATE REMOVAL.

THE EXCAVATION QUANTITY WILL BE DETERMINED BY THE MEASURED "IN VEHICLE" METHOD, PER SS862.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO EXCAVATE AND DISPOSE OF THE MATERIAL AND ASSOCIATED DEBRIS. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD OF ITEM 862 - EXCAVATION. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED FOR EXCAVATION FROM STA. ±673+15 TO STA. ±698+74 AND SHALL BE CARRIED TO THE GENERAL SUMMARY.

ITEM 862 - EXCAVATION	1800 CY
(FOR INFORMATION ONLY)	
EXISTING ROCK AND TALUS	850 CY
SCALED ROCK	500 CY
TRIM BLASTED ROCK	450 CY

ITEM 862 - SCALING

SLOPES ARE TO BE HAND SCALED AND MECHANICALLY SCALED. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED FOR SCALING WITHIN THE LIMITS OF THE PROJECT AND SHALL BE CARRIED TO THE GENERAL SUMMARY. REVIEW TRIM BLASTING AREAS FOR ADDITIONAL SCALING POST TRIM BLASTING OPERATION.

ITEM 862 - SCALING	380 HOURS
(FOR INFORMATION ONLY)	
HAND SCALING	300 HOURS
MECHANICAL SCALING	80 HOURS

ITEM 862 - TRIM BLASTING

SLOPES ARE TO BE TRIM BLASTED TO REMOVE OVERHANG OR OTHER LARGE BLOCKS AS DIRECTED BY THE ENGINEER. APPROXIMATE LOCATIONS, AND PHOTOS CAN BE FOUND ON P.28 - P.31 BUT ARE NOT ALL INCLUSIVE TO THE PROJECT. THE FOLLOWING ESTIMATED QUANTITY FOR TRIM BLASTING SHALL BE CARRIED TO THE GENERAL SUMMARY:

ITEM 862 - TRIM BLASTING	4,000 SF
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ITEM 862 - SLOPE DRAPE, AS PER PLAN

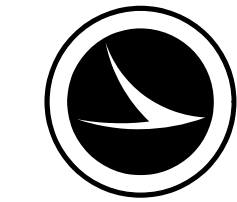
THE ROCKFALL PROTECTION SYSTEM SHALL BE DESIGNED TO RETAIN LARGE, DETACHED MASSES COMPRISED OF EITHER SINGLE OR MULTIPLE LARGE BLOCKS AND/OR SMALLER TALUS MATERIALS. THE SYSTEM SHALL BE DESIGNED FOR A MAXIMUM ROCKFALL BLOCK SIZE OF 12 CY (APPROXIMATELY 8’X8’X5’) AND BE ABLE TO RETAIN THE MAXIMUM ROCKFALL DEBRIS OF 15 CY (APPROXIMATELY 9’X9’X5’) PER SINGLE EVENT. AN AVERAGE ROCKFALL DEBRIS OF 3.75 CY IS ASSUMED. SYSTEM SHALL ALSO BE ABLE TO RETAIN SMALLER ROCKS THAT ARE GREATER THAN 4 INCHES IN DIAMETER. SYSTEM DESIGN SHALL NOT ASSUME THAT ITEM 862 SCALING AND ITEM 862 TRIM BLASTING WILL REDUCE THE MAXIMUM DESIGN PARAMETERS LISTED ABOVE.

SUBMIT A SCALING WORK PLAN AND SLOPE DRAPE INSTALLATION PLAN AS A COMBINED SUBMITTAL.

AN ESTIMATED QUANTITY OF **10130 SQUARE YARDS**, WHICH INCLUDES A 10% INCREASE DUE TO IRREGULARITY OF SLOPE, SHALL BE CARRIED TO THE GENERAL SUMMARY. MANUFACTURER SPECIFIED COMPONENTS ARE CONSIDERED INCIDENTAL TO THE SYSTEM.

GENERAL NOTES

DESIGN AGENCY



DESIGNER

GBS

REVIEWER

JPB 05/13/25

PROJECT ID

115101

SHEET

P.04

TOTAL

37

MODEL: Sheet_SurfF1 PAPER SIZE: 34x22 (in.) DATE: 7/22/2026 TIME: 9:44:32 AM PLTDRY: CHDOT_PDF.pltgr WORKSPACE: CHDOTCv02 WORKSET: 115101 PRODUCT: OpenRoads Designer 24.00.00.2005
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SHEET NUMBER												PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
	P.03	P.04				P.09						01/NHS							
																		ROADWAY	
	LS											LS	201	11001	LS			CLEARING AND GRUBBING, AS PER PLAN	P.03
						1,046						1,046	202	23000	1,046	SY		PAVEMENT REMOVED	
						34						34	202	30701	34	FT		CONCRETE BARRIER REMOVED, AS PER PLAN	P.03
						19						19	202	32000	19	FT		CURB REMOVED	
						2,274						2,274	202	38000	2,274	FT		GUARDRAIL REMOVED	
						2,178						2,178	202	75000	2,178	FT		FENCE REMOVED	
						1,100						1,100	203	10000	1,100	CY		EXCAVATION	
						2,159						2,159	204	10000	2,159	SY		SUBGRADE COMPACTION	
						37.5						37.5	606	15050	37.5	FT		GUARDRAIL, TYPE MGS	
						1						1	606	26150	1	EACH		ANCHOR ASSEMBLY, MGS TYPE E	
						1						1	606	35002	1	EACH		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
						2,095						2,095	622	10161	2,095	FT		CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	P.03
						1						1	622	10201	1	EACH		BARRIER TRANSITION, AS PER PLAN	P.03
						1						1	622	25000	1	EACH		CONCRETE BARRIER END SECTION, TYPE D	
		380										380	862	00500	380	HOVR		SCALING	
		10,130										10,130	862	00601	10,130	SY		SLOPE DRAPE, AS PER PLAN	P.04
		1,800										1,800	862	00610	1,800	CY		EXCAVATION	
		4,000										4,000	862	00700	4,000	SF		TRIM BLASTING	
																		EROSION CONTROL	
						28						28	601	21050	28	SY		TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
	3,847											3,847	659	10001	3,847	SY		SEEDING AND MULCHING, AS PER PLAN	P.03
												8,000	832	30000	8,000	EACH		EROSION CONTROL	
																		DRAINAGE	
						5						5	611	99115	5	EACH		INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN	P.03
																		PAVEMENT	
						984						984	254	01000	984	SY		PAVEMENT PLANING, ASPHALT CONCRETE (1 1/2")	
						270						270	301	56000	270	CY		ASPHALT CONCRETE BASE, PG64-22, (449)	
						361						361	304	20000	361	CY		AGGREGATE BASE	
						196						196	407	10000	196	GAL		TACK COAT	
						95						95	441	70100	95	CY		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M	
						19						19	609	24511	19	FT		CURB, TYPE 4-C, AS PER PLAN	P.03
						2,214						2,214	618	40100	2,214	FT		RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER
GBC

REVIEWER

JPB 05/13/25

PROJECT ID
115101

SHEET	TOTAL
P.07	3