

BID ITEM: 0060
DESCRIPTION: MATTING, TYPE A
SPEC: 280

ORGANIZED BY BID ITEM

ODOT STANDARD SPECIFICATIONS (2024)

SUB-SECTION	DESCRIPTION	REQUIREMENT	REF.	NOTES
280.14E	Erosion Prevention Materials: Slope and Channel Liner Matting	<p>Slope and Channel Liner Matting - Furnish matting from the QPL that meets the following performance criteria categories:</p> <ul style="list-style-type: none"> ➤ Type A - Slope protection mat, fully biodegradable, for Clay Soil Slopes 1V:3H or flatter. <p>Where shown, furnish rolled slope protection matting or hydraulically applied bonded fiber matrix slope protection matting that consists of fully biodegradable long fiber strands held together by a water resistant bonding agent. Channel liner mattings, types F, G and H may be installed as permanent features and are not required to be fully biodegradable.</p> <p>Furnish check slot and anchor trench material and fasteners for matting meeting the following requirements:</p> <p>(1) Check Slot and Anchor Trench:</p> <ul style="list-style-type: none"> • Class 50 Riprap - Class 50 riprap meeting the requirements of Section 00390. • Soil - Soil meeting the requirements of 00330.13. <p>(2) Fasteners - U-shaped wire staples or pins as follows:</p> <ul style="list-style-type: none"> • Staples - 1/8-inch diameter steel wire staples. 1-inch "U" width with a length of 9 inches minimum for cohesive Soils, and 1/2-inch "U" width with a length of 12 inches minimum for non-cohesive Soils. • Pins - 3/16-inch diameter steel pin with a 2-inch diameter steel washer secured at the head of the pin with a length of 18 inches minimum for cohesive Soils and 24 inches minimum for non-cohesive Soils. 	330.13 390	

NON-TESTED MATERIAL ACCEPTANCE GUIDE (2021)

SUB-SECTION	DESCRIPTION	REQUIREMENT	REF.	NOTES
280	Slope and Channel Liner Matting – Bonded Fiber Matrix 00280.14(e)	<p>Engineer must ensure specified Materials and measures for Erosion and Sediment Control are used and documentation provided as required in this guide. For temporary items under 00280, Engineer must verify items are as required by Contract Documents and functioning as intended.</p> <p>For permanent items under 00280, Engineer must acquire and retain the required documentation.</p>	280.14E	F, QPL (TO BE SUBMITTED BY ODOT)

E – Equipment Lists and Drawings / Procedures
L – ODOT Central Materials Laboratory Report
I – ODOT Structure Services Inspection Report
W – Warranty (Manufacture or Workmanship)
E – Equipment Lists and Drawings / Procedures
L – ODOT Central Materials Laboratory Report

I – ODOT Structure Services Inspection Report
W – Warranty (Manufacture or Workmanship)
P – Proof of License/Certification or Apprentice Application
M – Manufacturer’s Field Representative Report
F – Field Inspection Report (FIR)

O – Certificate of Materials Origin (CMO)
BG – Blue and Green Sheets (see Sec. 00960, 00970 or 00990)
R – Field Report
P/R – DEQ Permit or Compost Producer Registration
Q - Quality Compliance
T – Test Results Certificate

FIELD TESTED MATERIAL ACCEPTANCE GUIDE (2023)

N/A

LINKS TO THE RESOURCES

QUALIFIED PRODUCTS (01/2024)

Spec No.	Product Name	Category	Manufacturer
00280.14E	AIRTROL GEOBINDER	MATTING - TYPE A	USG CORPORATION 916/417-5048
00280.14E	BIONET S75BN	MATTING - TYPE A	WESTERN GREEN 800/582-4005
00280.14E	EARTHGUARD FIBER MATRIX	MATTING - TYPE A	LSC ENVIRONMENTAL PRODUCTS
00280.14E	ENVIRO-SHIELD BONDED FIBER MTX	MATTING - TYPE A	USG CORPORATION 916/417-5048
00280.14E	EROSION CONTROL BLANKET	MATTING - TYPE A	EROSION CONTROL BLANKET
00280.14E	EROSION CONTROL BLANKET	MATTING - TYPE A	EROSION CONTROL BLANKET
00280.14E	EROSION CONTROL BLANKET	MATTING - TYPE A	EROSION CONTROL BLANKET
00280.14E	EROSION CONTROL BLANKET	MATTING - TYPE A	EROSION CONTROL BLANKET
00280.14E	EXCEL CS-3 ALL NATURAL	MATTING - TYPE A	WESTERN EXCELSIOR 800/967-4009
00280.14E	FLEXTERRA HP-FGM	MATTING - TYPE A	PROFILE PRODUCTS 847/215-1144
00280.14E	FUSION	MATTING - TYPE A	LSC ENVIRONMENTAL PRODUCTS
00280.14E	GEOJUTE	MATTING - TYPE A	BELTON INDUSTRIES 800/225-4099
00280.14E	HYDRA CX2	MATTING - TYPE A	NORTH AMERICAN GREEN
00280.14E	HYDROSTRAW BONDED FIBER MATRIX	MATTING - TYPE A	HYDROSTRAW 800/545-1755
00280.14E	KANSAS EROSION KEP-C100 NATURA	MATTING - TYPE A	KANSAS EROSION 919/480-5616
00280.14E	KANSAS EROSION KEP-S2 NATURAL	MATTING - TYPE A	KANSAS EROSION 919/480-5616
00280.14E	KANSAS EROSION KEP-SC2 NATURAL	MATTING - TYPE A	KANSAS EROSION 919/480-5616
00280.14E	NORTH AMERICAN GREEN S150BN	MATTING - TYPE A	NORTH AMERICAN GREEN
00280.14E	NORTH AMERICAN GREEN S75BN	MATTING - TYPE A	NORTH AMERICAN GREEN
00280.14E	SOIL GUARD	MATTING - TYPE A	MAT, INC. 888/477-3028
00280.14E	BINDEX BFM	MATTING - TYPE A	AMERICAN EXCELSIOR
00280.14E	FLEXTERRA FGM	MATTING - TYPE A	PROFILE PRODUCTS 847/215-1144
00280.14E	PROMATRIX ENGINEERED	MATTING - TYPE A	PROFILE PRODUCTS, LLC

STANDARD DRAWINGS

RD1055 Slope and Channel Matting

MISC./APPLICABLE PROJECT PLANS

EC

LINKS TO THE REFERENCED DRAWINGS

THEY CAN ALSO BE ADDED IN THE DOCUMENT

BID ITEM: 0560
DESCRIPTION: STRUCTURE EXCAVATION
SPEC: 00510

ODOT STANDARD SPECIFICATIONS (2024)

SUB-SECTION	DESCRIPTION	REQUIREMENT	REF.	NOTES
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N/A

NON-TESTED MATERIAL ACCEPTANCE GUIDE (2021)

SUB-SECTION	DESCRIPTION	REQUIREMENT	REF.	NOTES
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N/A

FIELD TESTED MATERIAL ACCEPTANCE GUIDE (2023)

N/A*

* There may be requirements for subgrade. See sections 00330 & 00510 for specifications applicable to your work.

SMALL QUANTITY ACCEPTANCE:
 00510 Structure Excavation and Backfill 500 Ton

APPLICABLE SMALL QUANTITY LIMITS

QUALIFIED PRODUCTS (01/2024)

N/A

STANDARD DRAWINGS

MISC./APPLICABLE PROJECT PLANS

N/A

JC02, JC03

OPTIONAL CONTRACT DRAWING REFERENCES/LINKS/ ATTACHMENTS

SPECIAL PROVISIONS

SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL

Comply with Section 00510 of the Standard Specifications modified as follows:

00510.04(a) Defined Shoring Systems - Add the following to the end of this subsection:

Construct shoring at the location(s) listed below:

STA 568+54, 42' L

00510.80(b)(1) Lump Sum - Add the following to the end of this subsection:

The estimated quantity of Structure excavation is:

Location (Cubic Yard)	Structure Excavation
MILL CREEK BRIDGE	87 CY

SPECIAL PROVISIONS CAN BE INCLUDED MULTIPLE WAYS

ODOT STANDARD SPECIFICATIONS, 2024

SUB-SECTION	DESCRIPTION	REQUIREMENT	REF.	NOTES
510.13	Granular Structure Backfill	<p>Furnish granular structure backfill meeting the requirements of 02630.10 and the following:</p> <ol style="list-style-type: none"> Material Passing No. 200 Sieve - The amount of Materials passing the No. 200 sieve shall not exceed 15 percent by weight. Plasticity Index - The plasticity index of the Material passing the No. 40 sieve shall not exceed 6. Test according to AASHTO T 90. 	02630.10	<p>02630.10 Dense-Graded Aggregate:</p> <p>(a) Grading - Dense-graded base Aggregate shall be crushed Rock, including Sand. Uniformly grade the Aggregates from coarse to fine. Sieve analysis shall be determined according to AASHTO T 27. The Aggregates shall conform to one of the grading requirements of Table 02630-1 as identified in the Special Provisions or indicated by the Pay Items in the Contract Schedule of Items.</p> <p>(b) Fracture Of Rounded Rock - Fracture of rounded Rock shall be determined according to AASHTO T 335. Provide at least one fractured face based on the following percentage of particles retained on the 1/4 inch sieve for the designated size:</p> <p>Minimum Percent of Fractured Particles (by Weight of Material)/Designated Size Retained on 1/4 inch Sieve</p> <ol style="list-style-type: none"> 1 1/2" - 0 and larger -----50 % Smaller than 1 1/2" - 0 ----70 % <p>(c) Durability - Dense-graded Aggregate shall meet the following durability requirements:</p> <p>Test Method Requirements</p> <ol style="list-style-type: none"> Abrasion AASHTO T 96 35.0% maximum Degradation (coarse Aggregate) Passing No. 20 sieve ODOT TM 208 30.0% maximum Sediment Height ODOT TM 208 3.0" maximum <p>(d) Sand Equivalent - Dense-graded Aggregate shall be tested according to AASHTO T 176 and shall have a Sand equivalent of not less than 30.</p>

**Table 02630-1
Grading Requirements for Dense-Graded Aggregate
Separated Sizes**

Sieve Size	2 1/2" - 0	2" - 0	1 1/2" - 0	1" - 0	3/4" - 0
Percent Passing (by Weight)					
3"	100				
2 1/2"	95 - 100	100			
2"	-	95 - 100	100		
1 1/2"	-	-	95 - 100	100	
1 1/4"	55 - 75	-	-	-	
1"	-	55 - 75	-	90 - 100	100
3/4"	-	-	55 - 75	-	90 - 100
1/2"	-	-	-	55 - 75	-
3/8"	-	-	-	-	55 - 75
1/4"	30 - 45	30 - 45	35 - 50	40 - 55	40 - 60
No. 4 ¹	-	-	-	-	-
No. 10	2	2	2	2	2

¹ Report percent passing sieve when no grading requirements are listed

² Of the fraction passing the 1/4 inch sieve, 40 percent to 60 percent shall pass the No. 10 sieve

NON-TESTED MATERIAL ACCEPTANCE GUIDE (2021)

N/A

FIELD TESTED MATERIAL ACCEPTANCE GUIDE

SUB-SECTION	DESCRIPTION	TEST	ODOT	WAQTC	AASHTO	FORM	QC FREQUENCY	QA FREQUENCY	
510.13	Source Compliance	<p>Sampling: The Contractor or supplier's certified technician shall obtain two 50 lbs. samples of each aggregate product size for testing at the frequency listed below. The technician shall sample the material, properly bag and label it, see Section 4(C) "Laboratory Samples". Fill out the Sample Data Sheet form 734-4000; see Section 3, "Report Forms," for examples. Deliver the material to the Project Manager for review and submittal to the Central Materials Laboratory.</p> <p>Sampling and Testing Frequency: AGGREGATE PRODUCTS - except Asphalt Aggregates: For aggregates which require product compliance testing, sample and submit for testing each separated size of aggregate produced at least once every 12 months. This includes but not limited to concrete aggregate, base aggregate, shoulder aggregate, and riprap aggregate. Sampling frequency varies from one sample per 5,000 Ton to one sample per 20,000 Ton each product produced. Sources not listed in the tables shall be sampled and tested once per 5,000 Ton for each product produced. The ODOT Pavements Section will determine when the sampling frequency can be changed.</p>							
		Sampling Aggregates (See Section 02630.10)			R 90		REQUIRED QC & QA TESTING, FORMS, AND FREQUENCIES		
		Reducing Aggregates			R 76				
		Sieve Analysis Perform a minimum of 3 tests QL's required (STAT SPEC)			T 27			1/Sublot (Minimum 1/Project)	
		Fracture (Method 1)			T 335	1792			
		Sand Equivalent			T 176				
		Abrasion T 96			T 96	4000		See Section 4C 1/Source	<ul style="list-style-type: none"> Submit to Lab Minimum 1/Project or 1/Source
		Degradation TM 208	TM208						
		Plasticity Index T 90			T 90				
		Sieve Analysis			T 11				
		Establishing Maximum Density	Density Curve			T 99 Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	3468	1/Soil type or Aggregate Gradation	
			Specific Gravity of Coarse Aggregates			T 85			
			Coarse Particle Correction			T 99			

FIELD TESTED MATERIAL ACCEPTANCE GUIDE (CONTINUED)

SUB-SECTION	DESCRIPTION	TEST	ODOT	WAQTC	AASHTO	FORM	QC FREQUENCY	QA FREQUENCY
510.13	Compaction	Nuclear Density Soils/Aggregates			T 310	1793 B	1/100 yd 3 minimum 1/project	

SEE APPENDIX A FOR LIST OF AGGREGATE SOURCES WITH CURRENT SOURCE & PRODUCT COMPLIANCE IN WASHINGTON COUNTY

SMALL QUANTITY ACCEPTANCE:
00510 Structure Excavation and Backfill 500 Ton

QUALIFIED PRODUCTS (01/2024)

N/A

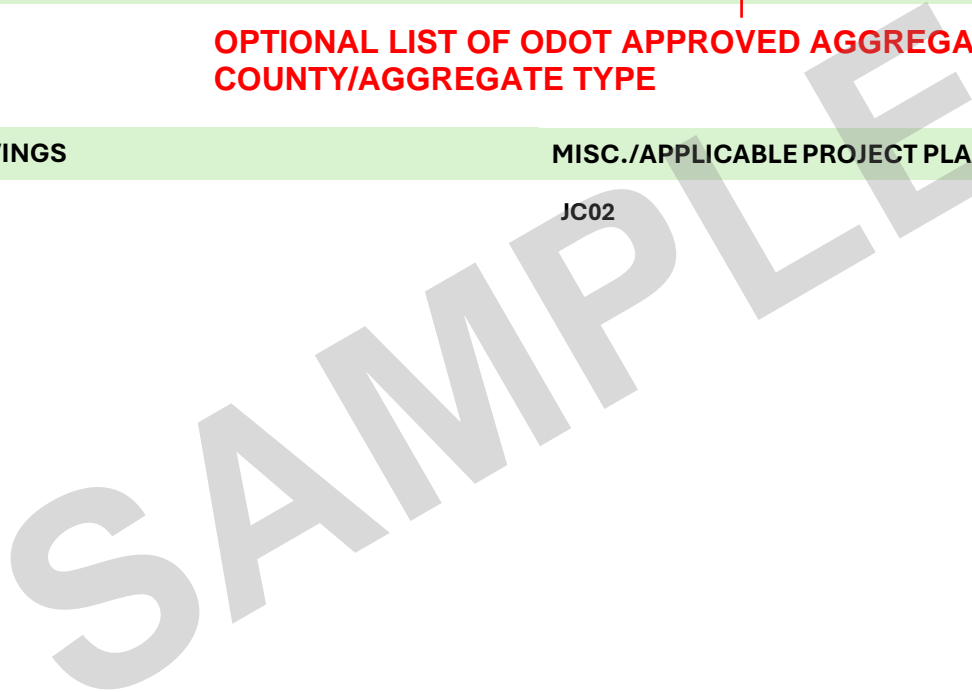
OPTIONAL LIST OF ODOT APPROVED AGGREGATE SOURCES PER COUNTY/AGGREGATE TYPE

STANDARD DRAWINGS

MISC./APPLICABLE PROJECT PLANS

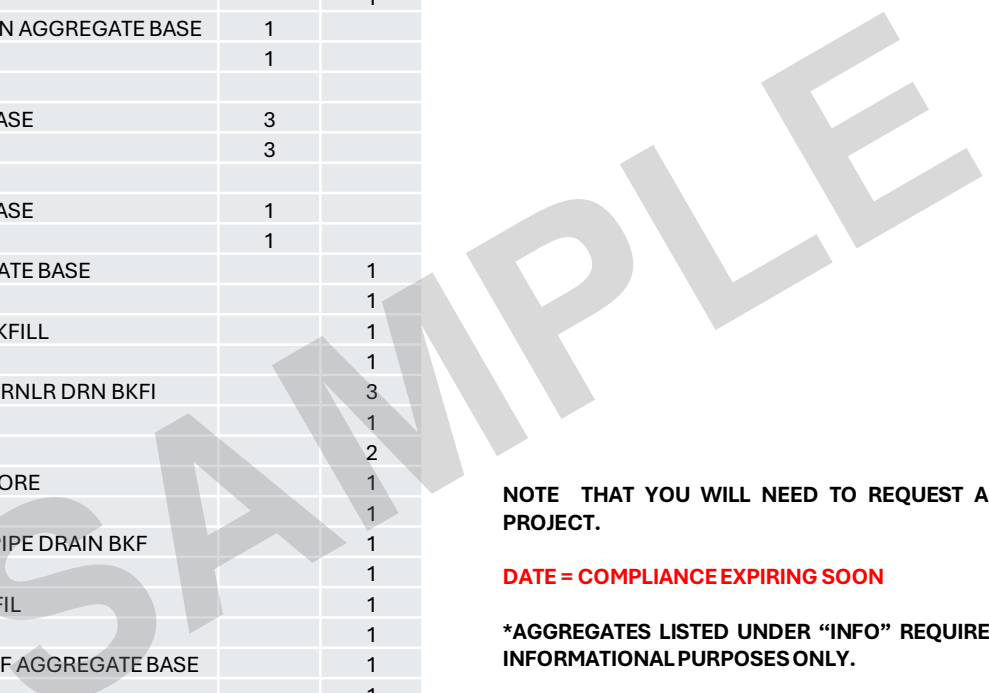
N/A

JC02



ODOT AGGREGATE SOURCE NO. SAMPLE DATE	*INFO	PASS
34-080-1		
AGGREGATE BASE	1	
3/1/2023	1	
BASE/TRENCH AGGREGATE BASE		1
4/14/2023		1
CIP WALL BAC STRUCT BACKFIL		1
4/14/2023		1
CIP WALL GRNLR DRN BKFI		1
11/2/2023		1
GRAN STRUC B STRUCT BACKFIL		1
4/14/2023		1
GRNLR DRN BKFI	1	
2/22/2023	1	
MOD BLK CORE GRNLR DRN BKFI		1
10/27/2023		1
MSE BACKFILL		1
11/2/2023		1
RECYCLED CON AGGREGATE BASE	1	
2/22/2023	1	
34-089-2		
AGGREGATE BASE	3	
3/20/2023	3	
34-098-2		
AGGREGATE BASE	1	
2/15/2023	1	
BASE AGGREGATE BASE		1
3/14/2023		1
CIP WALL BACKFILL		1
4/21/2023		1
DRAIN ROCK GRNLR DRN BKFI		3
3/14/2023		1
3/15/2023		2
MOD BLOCK CORE		1
3/20/2023		1
PIPE DRAIN B PIPE DRAIN BKF		1
3/20/2023		1
STRUCT BACKFIL		1
4/21/2023		1
TRENCH BACHF AGGREGATE BASE		1
4/21/2023		1

CLICK ON ITEM DESCRIPTION FOR PRODUCT COMPLIANCE REPORT.



NOTE THAT YOU WILL NEED TO REQUEST A TRANSFER TO YOUR PROJECT.

DATE = COMPLIANCE EXPIRING SOON

***AGGREGATES LISTED UNDER "INFO" REQUIRE TESTING AND IS FOR INFORMATIONAL PURPOSES ONLY.**

Bookmark Summary

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- LINKS TO EACH BID ITEM.**