

GENERAL NOTES

EROSION CONTROL/DRAINAGE

GENERAL CONSTRUCTION SEQUENCE FOR EROSION PROTECTION

THE CONTRACTOR SHALL TAKE ALL REASONABLE EFFORTS TO MINIMIZE SOIL EROSION. HE SHALL COVER ALL EXPOSED SOIL WITHIN ONE WEEK (SEVEN CALENDAR DAYS) OF EXPOSURE USING EITHER THE TEMPORARY OR PERMANENT EROSION PROTECTION ITEMS. THE ONLY AREAS WHERE THIS MAY BE OMITTED ARE THOSE ACTIVELY BEING WORKED ON AS DETERMINED BY THE ENGINEER. WHENEVER THIS PROVISION IS NOT MET, LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07 SHALL BE ASSESSED FOR EACH DAY BEYOND THE SEVEN DAY LIMIT. PERMANENT SLOPE EROSION PROTECTION SHALL NOT BE PLACED ON TOP OF SUCCESSFULLY GROWING TEMPORARY SLOPE EROSION. THE TEMPORARY SLOPE EROSION PROTECTION QUANTITY IS SUFFICIENT TO DO THE ENTIRE PROJECT. THE PERMANENT SLOPE EROSION PROTECTION QUANTITY HAS BEEN CALCULATED AT 25 PERCENT OF THE TOTAL AREA, AND IS SUBJECT TO NON-PERFORMANCE AND SHALL NOT BE PAID FOR TO COVER VEGETATED AREAS.

SEED MIXTURES

THE FOLLOWING SEEDING MIXTURE SHALL BE USED FOR BOTH THE TEMPORARY AND PERMANENT SEEDED AREAS:

SLOPES STEEPER THAN 3:1.

33% PERENNIAL RYEGRASS
33% ALSIKE CLOVER
34% CROWN VETCH

ALL OTHER AREAS AND ALL AREAS SHALL BE SEEDED AS PER 659.09.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

ALL 207 ITEMS SHALL BE PLACED AS SOON AS POSSIBLE AFTER EARTHWORK OPERATIONS HAVE BEGUN. WHEREVER POSSIBLE THE FILTER FABRIC FENCE AND STRAW OR HAY BALES SHALL BE PLACED WITHIN 24 HOURS OF EARTHWORK CONSTRUCTION.

ITEM 207 - TEMPORARY EROSION CONTROL, MISC., TEMPORARY SLOPE EROSION PROTECTION SHALL BE IN CONFORMANCE WITH ITEM 670 - SLOPE EROSION PROTECTION, AS PER PLAN (MOST OF THIS ITEM PLACED WILL BECOME THE FINAL SLOPE EROSION PROTECTION).

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

207 - TEMPORARY EROSION CONTROL, MISC., TEMPORARY SLOPE EROSION PROTECTION	5,900	SO. YD.
207 - FILTER FABRIC FENCE	500	LIN. FT.
207 - STRAW OR HAY BALES	100	EACH
659 - COMMERCIAL FERTILIZER	0.67	TON
659 - AGRICULTURAL LIMING	1.53	TON

WATERING SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR PERMANENT SEEDED AREAS PER 659.09.

659 - WATER	16	M. GAL.
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EROSION CONTROL

ITEMS 601, 670, AND 673 ARE PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS AND TURF OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE 670 OR 673. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THESE ITEMS SHALL MEET THE REQUIREMENT OF 108.04.

ITEM 670 - SLOPE EROSION PROTECTION, AS PER PLAN

THIS ITEM SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT OF WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT OF WAY LINES COVERED BY WORK AGREEMENT OR EASEMENT. A BONDED FIBER MATRIX (BFM) AS SPECIFIED ELSEWHERE SHALL BE USED AS AN ALTERNATIVE TO THE MATERIALS LISTED IN THE SPECIFICATION. THE SEEDING MIXTURES SPECIFIED ELSEWHERE SHALL BE USED FOR THIS ITEM OF WORK.

ITEM 673 - SEEDING AND EROSION CONTROL BLANKET, TYPE C

THIS ITEM OF WORK SHALL CONSIST OF PLACING AN EROSION CONTROL BLANKET ALONG THE SLOPES AS FOLLOWS: EASTBOUND FROM STA. 536+50 TO STA 538+70 AND WESTBOUND FROM STA. 536+86 TO STA. 539+70. THE EROSION CONTROL BLANKET SHALL BE PLACED AS SHOWN ON THE CROSS SECTIONS. THIS ITEM OF WORK SHALL ALSO BE USED TO LINE EXISTING AND PROPOSED DITCHES NOT OTHERWISE PROTECTED.

THE SEEDING MIXTURES SPECIFIED ELSEWHERE SHALL BE USED FOR THIS ITEM OF WORK.

SPRINGS

DUE TO THE POSSIBILITY THAT SPRINGS MAY BE ENCOUNTERED DURING CONSTRUCTION, THE FOLLOWING ESTIMATED QUANTITIES ARE CONTINGENCY QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAIN FOR SPRINGS	200	LIN. FT.
ITEM 605 - AGGREGATE DRAIN FOR SPRINGS	100	LIN. FT.

UNDERDRAINS & OUTLETS

ITEM 603 - 6" CONDUIT, TYPE F, 707.33

THE PREFABRICATED EDGE UNDERDRAIN OUTLETS SHALL BE PLACED AS SHOWN IN THE UNDERDRAIN OUTLET DETAIL ON SHEET 15. THE TRENCH SHALL BE 1' TALL AND THE WIDTH OF THE TRENCH SHALL BE AS PER 603.03. ANIMAL GUARDS SHALL BE INSTALLED AS PER MG-4.

THE UNDERDRAIN LOCATIONS AND DEPTHS ARE APPROXIMATE. THE EXACT LOCATIONS AND DEPTH OF UNDERDRAINS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL COSTS ASSOCIATED WITH THIS ITEM OF WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 603 - 6" CONDUIT, TYPE F, 707.33.

ITEM 605 - PREFABRICATED EDGE DRAIN, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF INSTALLING PREFABRICATED EDGE DRAINS WITH A FABRIC WRAP WITHIN A 2' WIDE TRENCH AS PER THE UNDERDRAIN DETAIL ON SHEET 15.

THE UNDERDRAIN LOCATIONS AND DEPTHS ARE APPROXIMATE. THE EXACT LOCATIONS AND DEPTH OF UNDERDRAINS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL COSTS ASSOCIATED WITH THIS ITEM OF WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 605 - PREFABRICATED EDGE DRAIN, AS PER PLAN.

ITEM SPECIAL - GEOTEXTILE FABRIC, TYPE D

THIS MATERIAL SHALL BE INSTALLED ON THE SUBGRADE AS PER THE MANUFACTURER'S INSTRUCTIONS PRIOR TO PLACEMENT OF THE DUMP ROCK FILL MAT AS SHOWN IN THE UNDERDRAIN OUTLET DETAIL ON SHEET 15.

PAVEMENT RUNOFF

DURING EXCAVATION AND EMBANKMENT CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BUILD A DIRT DIKE TO DIVERT SURFACE RUNOFF AWAY FROM THE EXPOSED SLOPE FACES. THE DIKES SHALL REMAIN IN PLACE UNTIL EITHER CURBS ARE INSTALLED OR THE TEMPORARY SLOPE EROSION PROTECTION IS ESTABLISHED. THE CONTRACTOR SHALL PREVENT THE DIVERTED WATER FROM SPREADING INTO THE TRAVELED LANE.

PAYMENT FOR SUCH WORK REQUIRED WILL BE CONSIDERED AS INCIDENTAL AND INCLUDED UNDER ITEM 203 - EMBANKMENT.

GENERAL NOTES

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