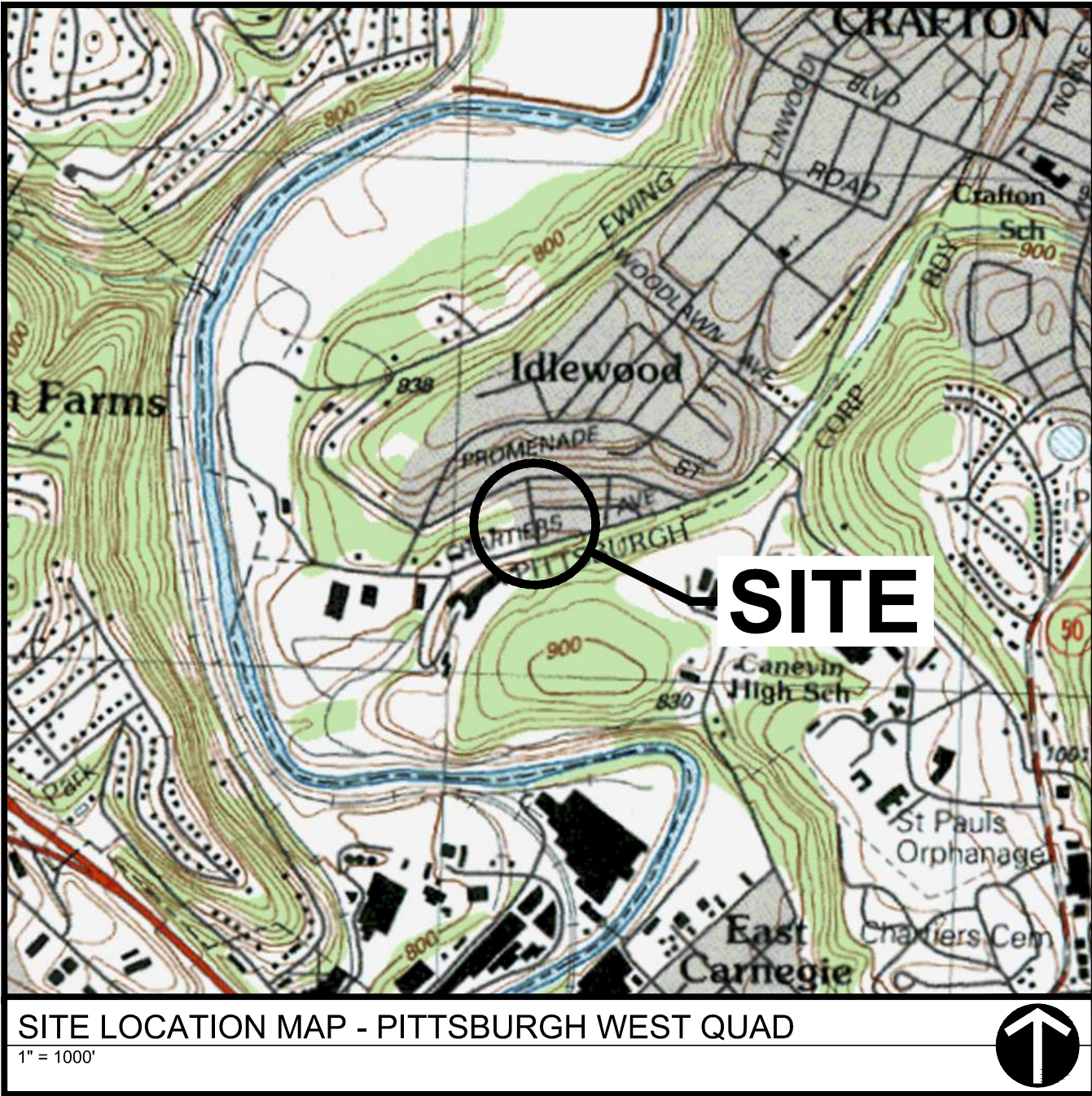


FOUNTAIN SYCAMORE STORM SEWER SEPARATION CONSTRUCTION PLANS

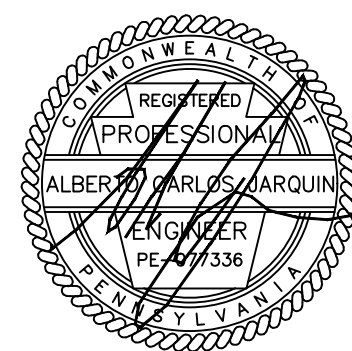
CHARTIERS AVENUE & SYCAMORE STREET
CRAFTON BOROUGH & CITY OF PITTSBURGH, ALLEGHENY COUNTY, PA

PREPARED FOR:

CRAFTON BOROUGH
100 STOTZ AVENUE
CRAFTON, PA 15205



SHEET INDEX	
NO.	TITLE
C000	COVER SHEET
C100	CONSTRUCTION PLANS
C101	CONSTRUCTION DETAILS
C102	CONSTRUCTION DETAILS



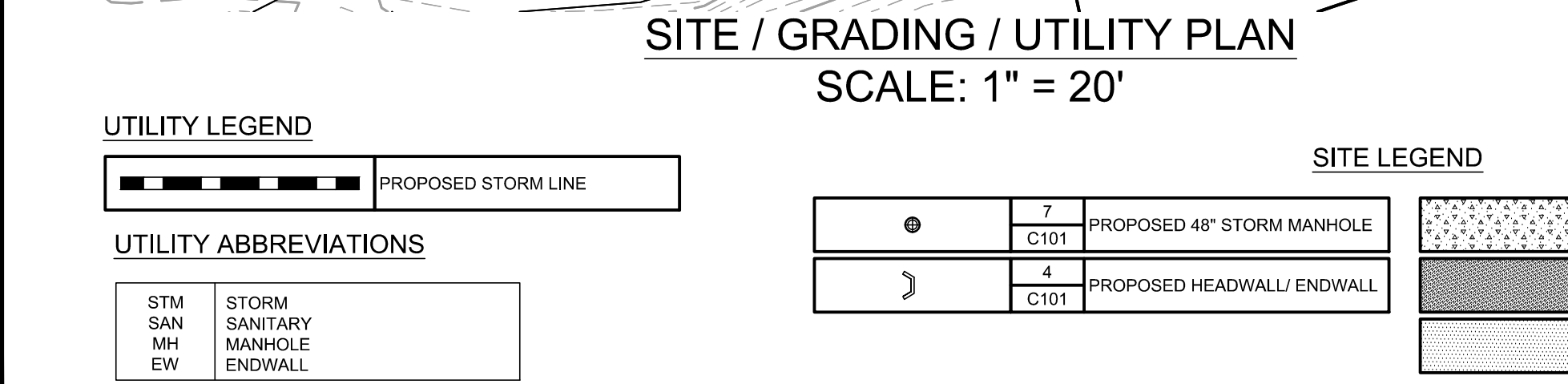
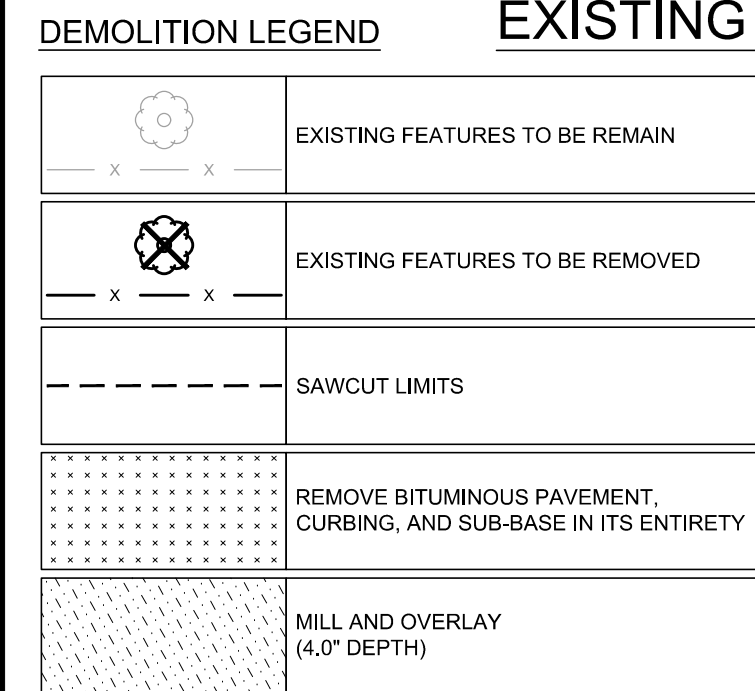
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No	Date
01	2018-04-01
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04	-
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08	-

FOUNTAIN SYCAMORE STORM SEWER SEPARATION
CHARTIERS AVENUE & SYCAMORE STREET
CRAFTON BOROUGH & CITY OF PITTSBURGH, ALLEGHENY COUNTY, PA
PREPARED FOR:
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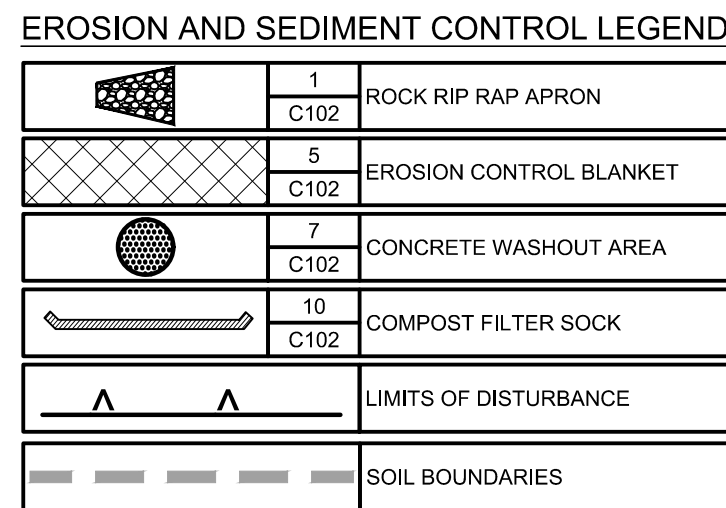
COVER SHEET

Project Number: C-5709-1801
Drawing Scale: N.T.S.
Date Issued: FEB. 2019
Index Number: -
Drawn By: JTD
Checked By: ACJ
Project Manager: ACJ

C000

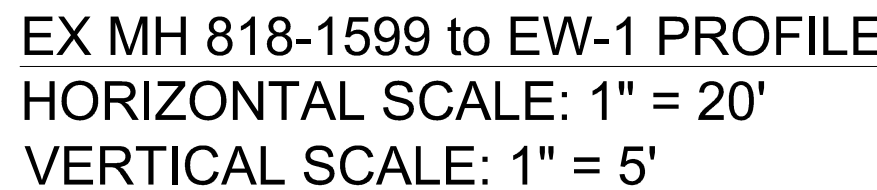


1. THE CONTRACTOR IS RESPONSIBLE FOR ASSURING LOCAL AND STATE PERMITS ARE OBTAINED FOR DEMOLITION WORK HAVE BEEN OBTAINED.
2. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND ADJACENT PROPERTY OWNERS FROM ALL CLAIMS, DAMAGES, LOSSES AND INJURIES AND EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
3. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL IN NATURE AND DO NOT INCLUDE MISCELLANEOUS ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF EXISTING CONDITIONS ARE SIGNIFICANTLY DIFFERENT THAN SHOWN ON THE PLANS.
4. ALL SALVAGEABLE ITEMS MUST BE STORED BY THE CONTRACTOR AND PROTECTED FROM DAMAGED OR DELIVERED TO AN AREA APPROVED BY THE OWNER.
5. UNLESS OTHERWISE NOTED, ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND REGULATIONS.
6. ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
7. CONTRACTOR SHALL AT ALL TIMES PROTECT ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION ACTIVITIES.
8. SAVE OUT ALL PAVEMENT PRIOR TO EXCAVATION, SAVE CUT PAVEMENT FULL DEPTH FROM EXCAVATION, REMOVE ONLY WHERE IT ABUTS PAVEMENT TO REMAIN. PAVEMENT REMOVAL INCLUDES SUBBASE MATERIALS, SAVE CUT AND CONCRETE PAVEMENT TO THE NEXT NEAREST EXISTING JOINT.
9. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER DEMOLITION REQUIREMENTS.
10. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE THOSE ITEMS RESET BY A LICENSED SURVEYOR AT NO CHARGE TO THE CONTRACTOR.
11. DEMOLITION CONTRACTOR SHALL COORDINATE EXISTING FACILITIES UTILITY DISCONNECTS WITH THE OWNER AND THE RESPECTIVE UTILITY PROVIDER A MINIMUM OF 7 DAYS PRIOR TO ANTICIPATED DEMOLITION OF STRUCTURES.
12. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE PENNDOT PUBLICATION 213 "WORK ZONE TRAFFIC CONTROL" AND THE PENNDOT PUBLICATION 214 "TRAFFIC CONTROL WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE THE TRAFFIC CONTROL MEASURES WITH THE LOCAL, STATE, AND FEDERAL AGENCIES ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
13. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
14. EROSION AND SEDIMENT CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE INSTALLED PRIOR TO INITIATION OF DEMOLITION ACTIVITIES. REFER TO EAS PLAN FOR DETAILS.
15. ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY THE LOCAL HEALTH DEPARTMENT OF ANY ASBESTOS OR HAZARDOUS MATERIALS.
16. ALL DISTURBANCES WITHIN PUBLIC AREAS SHALL BE RESTORED TO THE EXISTING CONDITIONS. ALL STREET AND SIDEWALK DISTURBANCES MUST BE RESTORED PER CURRENT MUNICIPAL SPECIFICATIONS AND REGULATIONS.
17. UTILITIES MAY NOT BE PUBLICLY OWNED AND MAINTAINED. THEREFORE IT WILL BE NECESSARY FOR THE CONTRACTOR TO LOCATE PRIVATE UTILITIES IN ADVANCE OF ANY DEMOLITION.
18. CONTRACTOR SHALL HAVE A SUBSURFACE UTILITY INVESTIGATION PERFORMED IN ADVANCE OF ANY EXCAVATIONS IN AREAS OF WORK.



1. ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY THE GATEWAY ENGINEERS, INC., THE CURRENT REQUIREMENTS OF THE MUNICIPALITY, AND THE CURRENT EDITIONS OF THE PENNSYLVANIA CONSTRUCTION SAFETY AND HEALTH REGULATIONS.
2. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH. INCLUDING THE FEDERAL CONSTRUCTION SAFETY ACT (PUBLIC LAW 91-594), FEDERAL REGULATIONS 29 CFR 1926, AND THE PENNSYLVANIA CONSTRUCTION SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, AND SUBSEQUENT PUBLICATIONS UPDATING THESE REGULATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER CONSIDERATION PRIOR TO BEING CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE.
4. BEFORE EXCAVATIONS, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY PENNSYLVANIA ONE CALL SYSTEMS, INC. AT 8-1-1. THE LOCATION OF ALL UTILITIES SHALL BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
5. ALL SLOPES SHALL BE 2:1 (HORIZONTAL: VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
6. ALL AREAS NOT PAVED SHALL BE TOP SOILED, SEEDED, MULCHED OR LANDSCAPED UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS. SITE SPECIFICATIONS OR NOTES SHALL TAKE PRECEDENCE OVER THE PLANS.
7. THE CONTRACTOR SHALL REMOVE ANY EXCESS SOIL AND TOPSOIL OFFSITE TO A P.A.DEP APPROVED WASTE SITE, OR SPREAD UNIFORMLY ON SITE. THE ACQUISITION OF AN APPROVED WASTE SITE IS THE CONTRACTOR'S RESPONSIBILITY.
8. THE CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY MARKERS, AND BENCHMARKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY MARKERS THAT HAVE BEEN DISTURBED BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
9. AN AS-BUILT DRAWING OF THE STORMWATER DETENTION FACILITY PREPARED AND SIGNED BY A PROFESSIONAL LAND SURVEYOR IS REQUIRED TO BE SUBMITTED TO THE PROJECT ENGINEER.

1. CONTRACTOR SHALL PROVIDE ALL LABORS AND MATERIALS FOR THE INSTALLATION OF SIGNAGE AND PAVEMENT MARKINGS AS SHOWN ON THE CONSTRUCTION PLANS.
2. LABELED DIMENSIONS OVERRIDE SCALING DIMENSIONS.
3. ALL NEW MATERIALS AND CONSTRUCTION METHODS MUST MEET PA DOT PUBLICATION 218 48H STANDARD.
4. CONTRACTOR TO WORK AROUND EXISTING UTILITIES. IF ADJUSTMENTS ARE NECESSARY, WORK WILL BE CONSIDERED INCIDENTAL.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE NECESSARY SAFETY MEASURES TO SECURE THE WORK AREA AND PREVENT TRAFFIC ACTIVITIES.
6. THE GATEWAY ENGINEERS, INC. IS NOT RESPONSIBLE TO INSPECT PROJECT SITES TO ENSURE COMPLIANCE WITH OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) STANDARDS.
7. TACK COAT SHALL BE REQUIRED IF PAVING LIFTS ARE NOT COMPLETED WITHIN 3 DAYS OF EACH OTHER. TACK COAT VERTICAL SURFACES ALONG SAW CUT LINES.
8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH PA DOT PUBLICATION 213 "WORK ZONE TRAFFIC CONTROL" (LATEST REVISION), AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN URBAN AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND STATE AGENCIES FOR ALL TRAFFIC CONTROL, EXCEPT AND UNLESS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.



UTILITY LINE INSTALLATION REQUIREMENTS

1. GENERAL
 - a. EXPOSED TRENCH EXCAVATIONS HAVE HIGH POTENTIAL FOR ACCELERATED EROSION AND SEDIMENT POLLUTION, AND THESE EXPOSURES ARE USUALLY LOCATED AT LOWER ELEVATIONS ALONG OR ACROSS THE DISTURBANCE SITES. OPEN TRENCHES SERVE TO CONCENTRATE SEDIMENT-LADEN RUNOFF AND CONVEY IT TO SITE BOUNDARIES OR WATERWAYS. THE MOST IMPORTANT EROSION AND SEDIMENT POLLUTION CONTROL MEASURE FOR PROTECTION FOR THE CONSTRUCTION IS THE LIMITING AND SPECIFIC SCHEDULING OF WORK ACTIVITIES.
2. CONSTRUCTION REQUIREMENTS
 - a. OPEN TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY. NO MORE THAN 50 LINEAR FEET OF OPEN TRENCH SHOULD EXIST WHEN PIPE/UTILITY LINE INSTALLATION CEASES AT THE END OF THE WORK DAY.
 - b. WHEN THE TRENCH EXCAVATION AND PIPE INSTALLATION IS THE LINE SHALL BE COMPLETELY REMOVED BY USING A PUMPED WATER FILTER BAG AS SHOWN IN THE CONSTRUCTION DETAIL BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS.
 - c. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES/FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING OF ALL DISTURBED AREAS WILL BE DONE AT THE END OF EACH WEEK.
3. EXCEPTIONS
 - a. IN CERTAIN CASES, TRENCHES CANNOT BE BACKFILLED UNTIL THE PIPE IS HYDROSTATICALLY TESTED, OR ANCHORS AND OTHER PERMANENT FEATURES ARE INSTALLED. IN THESE CASES, ALL OF THE REQUIREMENTS OF THIS SPECIFICATION WILL BE REMAINED IN EFFECT.
 - b. DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR SIX DAYS. ALL PRESSURE TESTING AND THE COMPLETE BACKFILLING OF THE OPEN TRENCH MUST BE COMPLETED BY THE SEVENTH WORKING DAY.
 - c. WHEN THE PIPE/UTILITY LINE IS EXPOSED TO THE ENVIRONMENT, THE TRENCHES WILL BE APPROPRIATE TEMPORARY EROSION AND SEDIMENT CONTROL. BMP'S WILL BE INSTALLED, AND THE AREAS SEEDED AND MULCHED WITHIN THE NEXT TWO CALENDAR DAYS.

AFTER COMPLETION OF PROJECT:

1. ALL COMPOST FILTER SOCK AND INLET PROTECTION MAY BE REMOVED WHEN A MINIMUM UNIFORM 70% PERENNIAL VEGETATION HAS BEEN ESTABLISHED WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION FOR AREAS TRIBUTARY TO THE SOCK.
2. IF A BMP FAILS DURING A RUNOFF EVENT, THE CONTRACTOR SHALL REPLACE/IF THE DAMAGED BMP WITHIN 24 HOURS.
3. WHEN CLEANING EXCESS SEDIMENT FROM THE E&S CONTROL FACILITIES, PLACE SEDIMENTS IN GRASS AREAS WHICH DO NOT ADJACENT TO WATERWAYS. THESE SEDIMENTS ARE CONTROLLED BY BMP'S (WITHIN LIMITS OF DISTURBANCE), THEN SEED OVER AREA USING SEEDING SPECIFICATIONS.

		REVISION RECORD	
Date	No.	REVISED PER ACCD COMMENTS	
2019-04-01	01	REVISED PER PWSA COMMENTS	
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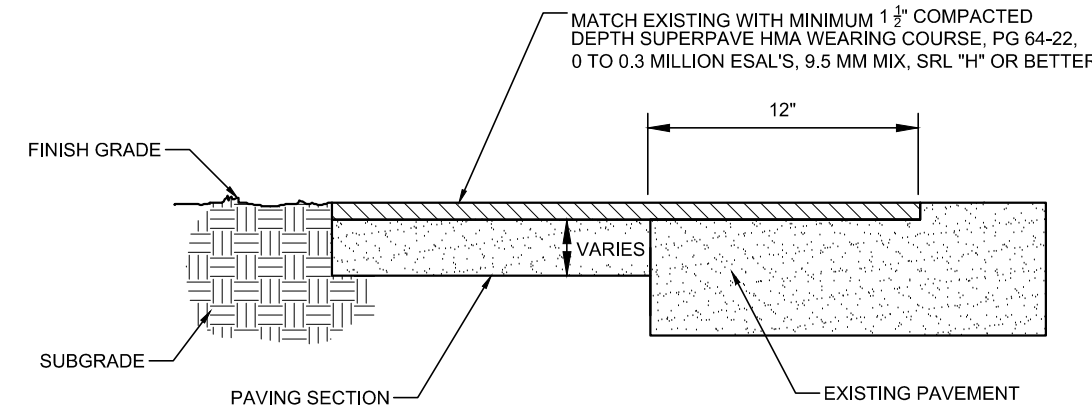
FOUNTAIN SYCAMORE STORM SEWER SEPARATION
 CHARTIERS AVENUE & SYCAMORE STREET
 CRAFTON BOROUGH & CITY OF PITTSBURGH, ALLEGHENY COUNTY, PA

PREPARED FOR:
CRAFTON BOROUGH
 100 STOTZ AVENUE
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CONSTRUCTION
PLANS

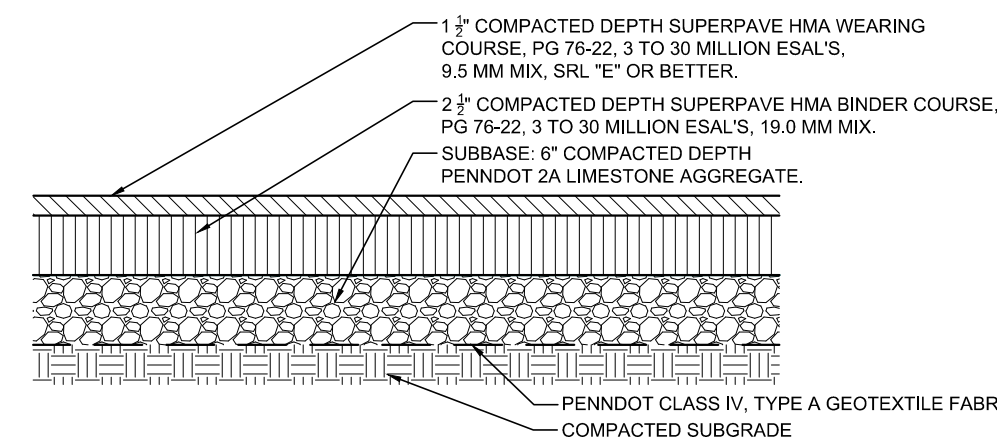
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Project Manager: ACJ

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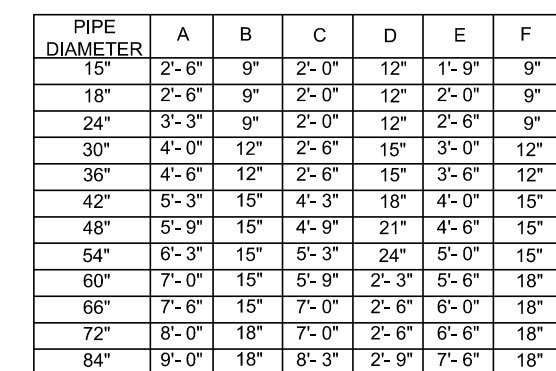
PERMANENT RESTORATION

BITUMINOUS ROADS

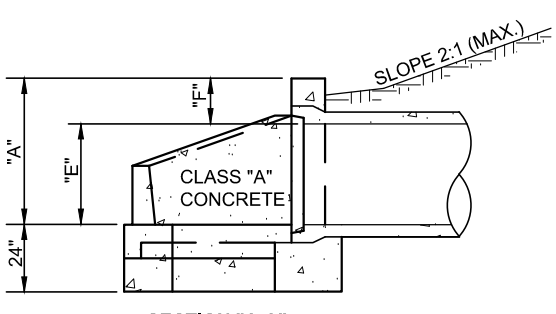


TEMPORARY RESTORATION

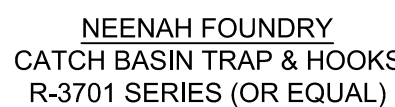
3	STANDARD DUTY ASPHALT
C101	PAVEMENT (SUPERPAVE)



1. CONCRETE END SECTIONS MUST BE SUBMITTED FOR APPROVAL
2. PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 6 AND SECTION 714.
3. ALL ENDWALLS OR HEADWALLS SHALL BE PROVIDED BY PRODUCTS LISTED ON PENNDOT BULLETIN 15 (PUBLICATION 35).



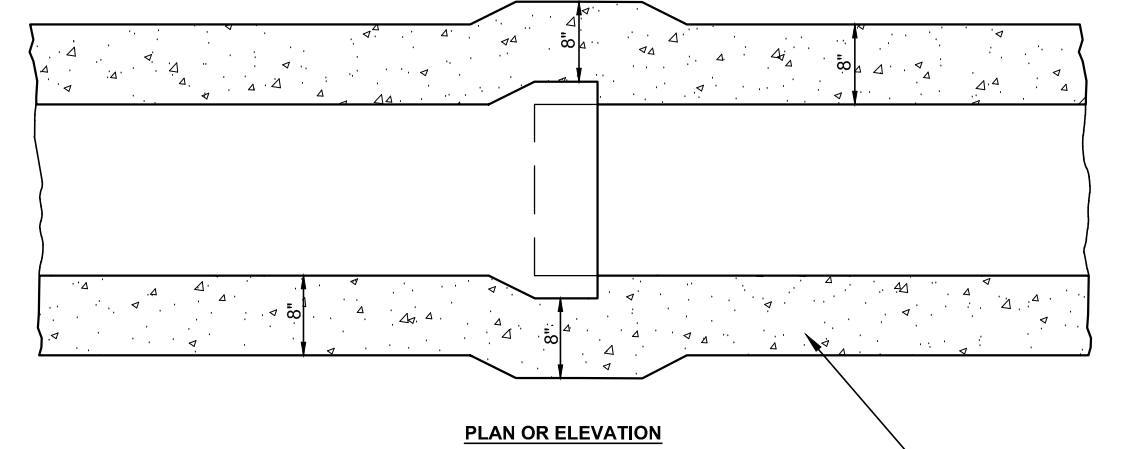
4	ENDWALL OR HEADWALL
C101	



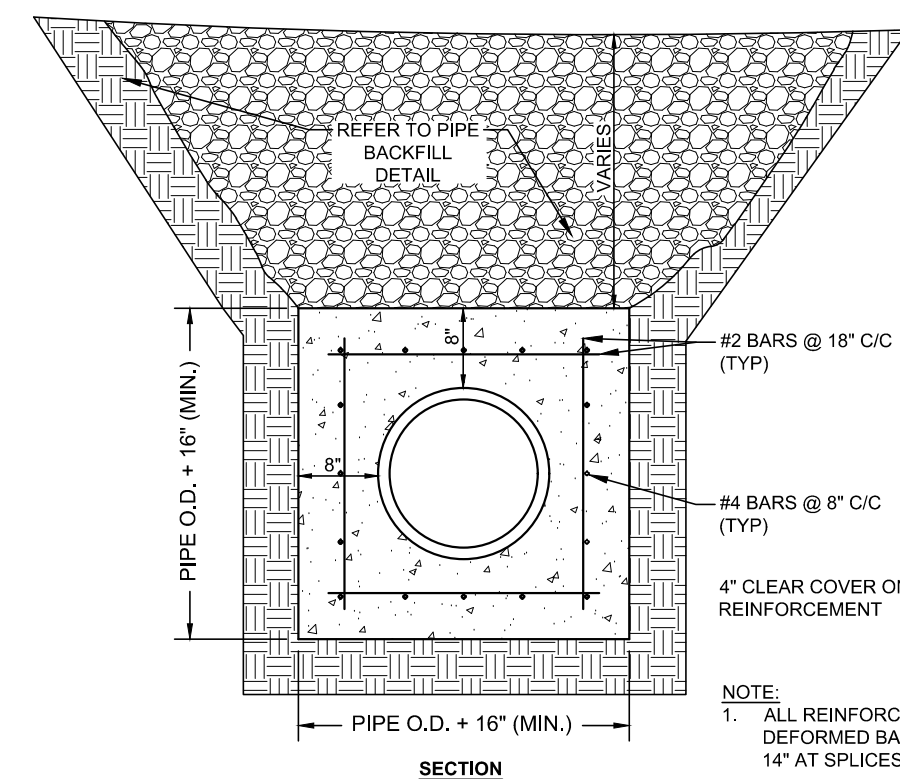
5	WATER QUALITY INLET SNOUT (TO BE INSTALLED IN STM MH-1)
C101	

SITE SOIL TYPES:									
SYMBOL	DESCRIPTION	SLOPE	LIMITATIONS	REMEDIAL ACTIONS					
AI	ATKINS SILT LOAM	0% - 3%	LIMITATIONS INCLUDE CUTBANKS CAVE, CORROSIVE TO CONCRETE AND STEEL, FLOODING, SEASONAL HIGH GROUNDWATER TABLE, HYDRIC INCLUSIONS, LANDSLIDE PRONE, SLOW PERCOLATION, PIPE, POOR SOURCE OF TOPSOIL, FROST ACTION, AND WETNESS	<div><div><div><u>SOILS SUSCEPTIBLE TO HIGH WATER TABLES AND/OR PIPING AND SEEPING:</u></div><div><ul style="list-style-type: none">• PROVIDE ANCHORING OR RETAINING SYSTEMS• PROVIDE BENCHING TO CATCH FALLING DEBRIS• PROVIDE TRENCH BOXES FOR UTILITY INSTALLATION• SOILS CORROSIVE TO CONCRETE/STEEL• MINIMIZE THE AMOUNT OF SOIL DISTURBANCE• PROVIDE PROTECTIVE COATING TO CONCRETE AND STEEL• PROVIDE EXTRA CONCRETE AND STEEL THICKNESS• SOILS SUSCEPTIBLE TO MODERATE OR HIGH EROSION POTENTIAL• LIMIT TIME OF EXPOSURE• UTILIZE EROSION CONTROL BLANKETS• SELECT SEED MIXTURES WITH RAPIDLY GERMINATING SPECIES• SODDING• USE OF SPECIAL STABILIZATION PRODUCTS (CELLULAR GRIDS, INTERLOCKING CONCRETE BLOCKS, ETC.)</div><div><u>SOILS SUSCEPTIBLE TO FROST ACTION:</u></div><div><ul style="list-style-type: none">• MINIMIZE AMOUNT OF SOIL EXPOSURE• PROVIDE EFFECTIVE DRAINAGE• CONTROL DEPTH OF FROST PENETRATION• REPLACE AND/OR MODIFY FROST-SUSCEPTIBLE SOILS THAT ARE SUBJECT TO SHRINK/SWELL OR POTENTIAL SINK HOLE</div><div><u>SOILS THAT ARE SUSCEPTIBLE TO DROUGHTY CONDITIONS:</u></div><div><ul style="list-style-type: none">• PROVIDE IRRIGATION• UTILIZE EROSION CONTROL BLANKETS</div></div></div> <div><div><div><u>SOILS SUSCEPTIBLE TO SLIPS AND LANDSLIDES:</u></div><div><ul style="list-style-type: none">• PREVENT SATURATION OF SLOPES• PROVIDE ANCHORING OR RETAINING SYSTEMS• PROVIDE BENCHING TO CATCH FALLING DEBRIS</div><div><u>SOILS WITH SLOW PERCOLATION RATES:</u></div><div><ul style="list-style-type: none">• SHOULD INFILTRATION FACILITIES BE USED AT THE SITE. INFILTRATION TESTS SHALL BE PERFORMED TO DETERMINE PROPER PERCOLATION RATES• SOIL WILL BE AMENDED ACCORDINGLY BASED ON THE RESULTS OF THE TESTING• SOILS THAT ARE POOR SOURCES OF TOPSOIL</div><div><u>PERFORM SOIL TESTS TO DETERMINE PROPER APPLICATION OF SOIL AMENDMENTS AND TO DETERMINE THE PROPER MOISTURE CONTENT FOR PROPOSED VEGETATIVE COVER</u></div><div><ul style="list-style-type: none">• IMPORT TOPSOIL AS NEEDED</div></div></div> <tr><td>URC</td><td>URBAN LAND - RAINSBORO COMPLEX</td><td>SLOPING</td><td>LIMITATIONS INCLUDE CUTBANKS CAVE, CORROSIVE TO CONCRETE AND STEEL, EASILY ERODIBLE, SEASONAL HIGH GROUNDWATER TABLE, HYDRIC INCLUSIONS, LANDSLIDE PRONE, SLOW PERCOLATION, AND FROST ACTION</td><td><div><div><div><u>SOILS SUSCEPTIBLE TO HIGH WATER TABLES AND/OR PIPING AND SEEPING:</u></div><div><ul style="list-style-type: none">• PROVIDE ANCHORING OR RETAINING SYSTEMS• PROVIDE BENCHING TO CATCH FALLING DEBRIS• PROVIDE TRENCH BOXES FOR UTILITY INSTALLATION• SOILS CORROSIVE TO CONCRETE/STEEL• MINIMIZE THE AMOUNT OF SOIL DISTURBANCE• PROVIDE PROTECTIVE COATING TO CONCRETE AND STEEL• PROVIDE EXTRA CONCRETE AND STEEL THICKNESS• SOILS SUSCEPTIBLE TO MODERATE OR HIGH EROSION POTENTIAL• LIMIT TIME OF EXPOSURE• UTILIZE EROSION CONTROL BLANKETS• SELECT SEED MIXTURES WITH RAPIDLY GERMINATING SPECIES• SODDING• USE OF SPECIAL STABILIZATION PRODUCTS (CELLULAR GRIDS, INTERLOCKING CONCRETE BLOCKS, ETC.)</div><div><u>SOILS SUSCEPTIBLE TO FROST ACTION:</u></div><div><ul style="list-style-type: none">• MINIMIZE AMOUNT OF SOIL EXPOSURE• PROVIDE EFFECTIVE DRAINAGE• CONTROL DEPTH OF FROST PENETRATION• REPLACE AND/OR MODIFY FROST-SUSCEPTIBLE SOILS THAT ARE SUBJECT TO SHRINK/SWELL OR POTENTIAL SINK HOLE</div><div><u>SOILS THAT ARE SUSCEPTIBLE TO DROUGHTY CONDITIONS:</u></div><div><ul style="list-style-type: none">• PROVIDE IRRIGATION• UTILIZE EROSION CONTROL BLANKETS</div></div></div><div><div><div><u>SOILS SUSCEPTIBLE TO SLIPS AND LANDSLIDES:</u></div><div><ul style="list-style-type: none">• PREVENT SATURATION OF SLOPES• PROVIDE ANCHORING OR RETAINING SYSTEMS• PROVIDE BENCHING TO CATCH FALLING DEBRIS</div><div><u>SOILS WITH SLOW PERCOLATION RATES:</u></div><div><ul style="list-style-type: none">• SHOULD INFILTRATION FACILITIES BE USED AT THE SITE. 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INFILTRATION TESTS SHALL BE PERFORMED TO DETERMINE PROPER PERCOLATION RATES• SOIL WILL BE AMENDED ACCORDINGLY BASED ON THE RESULTS OF THE TESTING• SOILS THAT ARE POOR SOURCES OF TOPSOIL</div><div><u>PERFORM SOIL TESTS TO DETERMINE PROPER APPLICATION OF SOIL AMENDMENTS AND TO DETERMINE THE PROPER MOISTURE CONTENT FOR PROPOSED VEGETATIVE COVER</u></div><div><ul style="list-style-type: none">• IMPORT TOPSOIL AS NEEDED</div></div></div> <div><div>NOTE:</div><div>A GEOTECHNICAL ENGINEER WILL REVIEW THE SOIL CAPABILITY OF THE SITE AND MAKE RECOMMENDATIONS TO THE CLIENT. SOILS HAVING UNSTABLE COMPOSITION, SLIP AND LANDSLIDE POTENTIAL ARE NOT TO BE USED AS FILL MATERIAL AT AREAS HAVING 2:1 SLOPES OR NEAR PROXIMITY TO SUCH SLOPES. LOADING PLANES OF SUCH PLACED FILLS SHALL BEAR ON SUITABLE SOILS KEYED INTO VIRGIN SOILS. REFER TO CUTFILL DETAILS ON PLANS. ALL CUT SITUATIONS THAT EXPOSE SUCH SOILS TO UNSUPPORTED BEARING BASE REQUIRES THOSE SOILS TO BE EXCAVATED AND REPLACED WITH SUITABLE SOILS THAT DO NOT HAVE THE MENTIONED CHARACTERISTICS.</div></div>
URC	URBAN LAND - RAINSBORO COMPLEX	SLOPING	LIMITATIONS INCLUDE CUTBANKS CAVE, CORROSIVE TO CONCRETE AND STEEL, EASILY ERODIBLE, SEASONAL HIGH GROUNDWATER TABLE, HYDRIC INCLUSIONS, LANDSLIDE PRONE, SLOW PERCOLATION, AND FROST ACTION	<div><div><div><u>SOILS SUSCEPTIBLE TO HIGH WATER TABLES AND/OR PIPING AND SEEPING:</u></div><div><ul style="list-style-type: none">• PROVIDE ANCHORING OR RETAINING SYSTEMS• PROVIDE BENCHING TO CATCH FALLING DEBRIS• PROVIDE TRENCH BOXES FOR UTILITY INSTALLATION• SOILS CORROSIVE TO CONCRETE/STEEL• MINIMIZE THE AMOUNT OF SOIL DISTURBANCE• PROVIDE PROTECTIVE COATING TO CONCRETE AND STEEL• PROVIDE EXTRA CONCRETE AND STEEL THICKNESS• SOILS SUSCEPTIBLE TO MODERATE OR HIGH EROSION POTENTIAL• LIMIT TIME OF EXPOSURE• UTILIZE EROSION CONTROL BLANKETS• SELECT SEED MIXTURES WITH RAPIDLY GERMINATING SPECIES• SODDING• USE OF SPECIAL STABILIZATION PRODUCTS (CELLULAR GRIDS, INTERLOCKING CONCRETE BLOCKS, ETC.)</div><div><u>SOILS SUSCEPTIBLE TO FROST ACTION:</u></div><div><ul style="list-style-type: none">• MINIMIZE AMOUNT OF SOIL EXPOSURE• PROVIDE EFFECTIVE DRAINAGE• CONTROL DEPTH OF FROST PENETRATION• REPLACE AND/OR MODIFY FROST-SUSCEPTIBLE SOILS THAT ARE SUBJECT TO SHRINK/SWELL OR POTENTIAL SINK HOLE</div><div><u>SOILS THAT ARE SUSCEPTIBLE TO DROUGHTY CONDITIONS:</u></div><div><ul style="list-style-type: none">• PROVIDE IRRIGATION• UTILIZE EROSION CONTROL BLANKETS</div></div></div> <div><div><div><u>SOILS SUSCEPTIBLE TO SLIPS AND LANDSLIDES:</u></div><div><ul style="list-style-type: none">• PREVENT SATURATION OF SLOPES• PROVIDE ANCHORING OR RETAINING SYSTEMS• PROVIDE BENCHING TO CATCH FALLING DEBRIS</div><div><u>SOILS WITH SLOW PERCOLATION RATES:</u></div><div><ul style="list-style-type: none">• SHOULD INFILTRATION FACILITIES BE USED AT THE SITE. INFILTRATION TESTS SHALL BE PERFORMED TO DETERMINE PROPER PERCOLATION RATES• SOIL WILL BE AMENDED ACCORDINGLY BASED ON THE RESULTS OF THE TESTING• SOILS THAT ARE POOR SOURCES OF TOPSOIL</div><div><u>PERFORM SOIL TESTS TO DETERMINE PROPER APPLICATION OF SOIL AMENDMENTS AND TO DETERMINE THE PROPER MOISTURE CONTENT FOR PROPOSED VEGETATIVE COVER</u></div><div><ul style="list-style-type: none">• IMPORT TOPSOIL AS NEEDED</div></div></div> <div><div>NOTE:</div><div>A GEOTECHNICAL ENGINEER WILL REVIEW THE SOIL CAPABILITY OF THE SITE AND MAKE RECOMMENDATIONS TO THE CLIENT. SOILS HAVING UNSTABLE COMPOSITION, SLIP AND LANDSLIDE POTENTIAL ARE NOT TO BE USED AS FILL MATERIAL AT AREAS HAVING 2:1 SLOPES OR NEAR PROXIMITY TO SUCH SLOPES. LOADING PLANES OF SUCH PLACED FILLS SHALL BEAR ON SUITABLE SOILS KEYED INTO VIRGIN SOILS. REFER TO CUTFILL DETAILS ON PLANS. ALL CUT SITUATIONS THAT EXPOSE SUCH SOILS TO UNSUPPORTED BEARING BASE REQUIRES THOSE SOILS TO BE EXCAVATED AND REPLACED WITH SUITABLE SOILS THAT DO NOT HAVE THE MENTIONED CHARACTERISTICS.</div></div>					

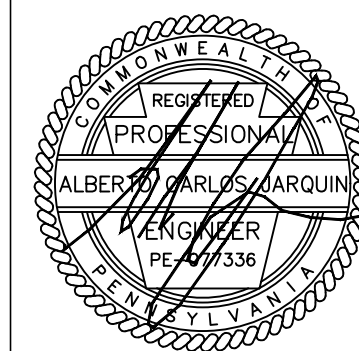
8	SITE SOIL LIMITATIONS AND RESOLUTIONS
C101	



9	CONCRETE ENCASEMENT
C101	



7	48" DIAMETER PRECAST CONCRETE MANHOLE
C101	



REVISION RECORD	
Date	No
2019-04-01	01
	REVISED PER ACOD COMMENTS
2020-05-29	02
	REVISED PER PWISA COMMENTS
-	03
-	04
-	05
-	06
-	07

FOUNTAIN SYCAMORE STORM SEWER SEPARATION
CHARTIERS AVENUE & SYCAMORE STREET
CRAFTON BOROUGH & CITY OF PITTSBURGH, ALLEGHENY COUNTY, PA

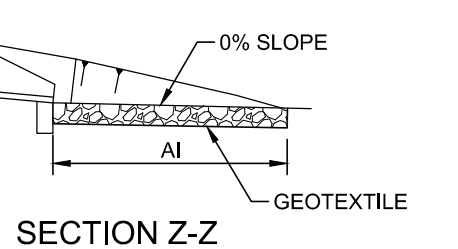
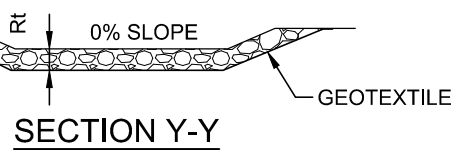
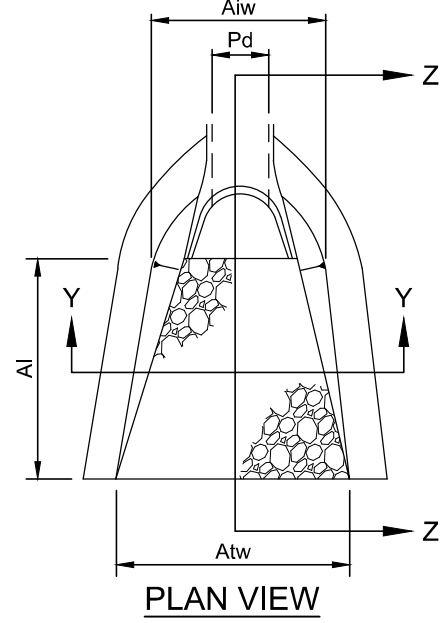
PREPARED FOR:
CRAFTON BOROUGH
100 STOTZ AVENUE
CRAFTON, PA 15205

**CONSTRUCTION
DETAILS**

Project Number: C-5709-1801
 Drawing Scale: N.T.S.
 Date Issued: FEB. 2019
 Index Number: -
 Drawn By: JTD
 Checked By: ACJ
 Project Manager: ACJ

C101

E:\P\H & Filenames\Projects\00005709 consent order\2018-1901 charters ave sewer separation\Drawings\Sheet C100 - Site Utility Grading Plan and Details.dwg
User: S. Baker
Plot Date: 2/28/2020 12:22 AM
Sheet: 1 of 2



OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP		APRON INITIAL WIDTH Aw (FT)	TERMINAL WIDTH Atw (FT)
		SIZE R ₁	THICK. R ₁ (IN)	LENGTH AL (FT)	
ENDWALL-1	18	4	18	8.0	12.5

- NOTES:
- ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
 - ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

1 C102	RIPRAP APRON AT PIPE OUTLET - N.T.S.
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TEMPORARY SEEDING SPECIFICATIONS:

LIMESTONE	RAW, GROUND AGRICULTURAL LIMESTONE CONTAINING MORE THAN 90 PERCENT CALCIUM CARBONATES (ADJUST PH LEVELS TO 6.5 TO 7.0). APPLY AT A RATE OF 1 TON/AC (40 LB/1000 SF).
COMMERCIAL FERTILIZER	IN ABSENCE OF A SOIL TEST, USE 500 LB/AC OF 10-10-10 (12.5 LB/1000 SF) MIXED INTO SEEDBED PRIOR TO SEEDING, OR IN A TANK WITH SEED WHEN HYDROSEEDING.
MULCH	CLEAN OAT OR WHEAT STRAW SHALL BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT 1947. APPLY AT A RATE OF 3 TONS/AC (140 LB/1000 SF). PRECAUTION SHALL BE TAKEN TO STABILIZE THE MULCH UNTIL THE VEGETATIVE COVER IS ESTABLISHED.
SEED MIXTURE	SEED MIXTURE SHALL BEAR A GUARANTEED STATEMENT OF ANALYSIS AND SHALL BE COMPOSED OF THE FOLLOWING VARIETIES AND MIXED IN THE PROPORTIONS SPECIFIED.

TEMPORARY LAWN SEED MIXTURE	PROPORTION BY WEIGHT	MINIMUM PURITY
LOLIUM PERENNE PERENNIAL RYEGRASS	100%	95%

THREE PERCENT REDTOP MAY BE ADDED TO THE LAWN MIXTURE ON SLOPE AREAS OR FOR LATE SPRING OR LATE FALL SEEDING.

TEMPORARY SEEDING	TEMPORARY SEEDING SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET.
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ALL AREAS TO BE SEEDDED SHALL BE LOOSENEED TO A DEPTH OF AT LEAST TWO INCHES BY MECHANICAL MEANS AS APPROVED BY THE LANDSCAPE ARCHITECT.

MULCH SEEDDED AREAS IMMEDIATELY AFTER SEEDING.

PLACE LIME AT RATE OF 6 TON/AC AND 5-10-10 FERTILIZER AT 300 LB/AC.

SEEDING	SEED ALL DISTURBED AREAS WITH THE TEMPORARY SEED MIXTURE EXCEPT THOSE AREAS SHOWN TO BE SEEDDED WITH STEEP SLOPE SEED MIX, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
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PERMANENT SEEDING SPECIFICATIONS:

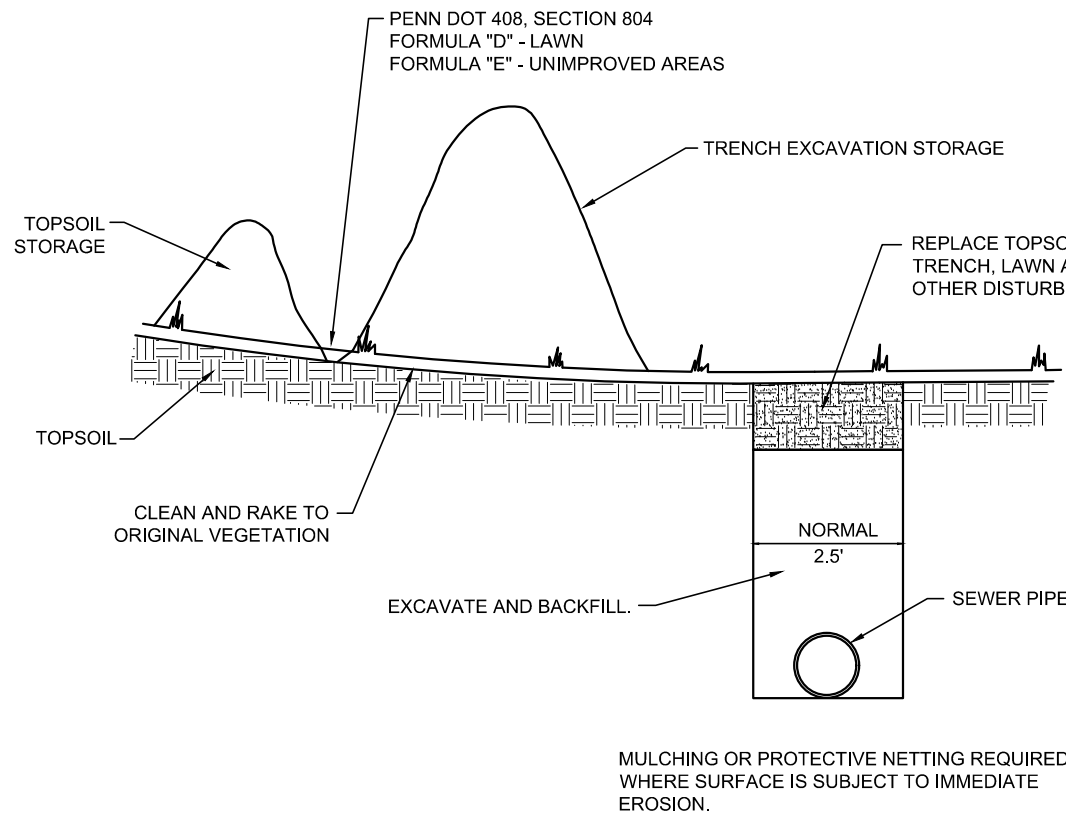
TOPSOIL	6" (MINIMUM) TOPSOIL SHALL BE REQUIRED ON ALL LAWN AREAS.
LIMESTONE	RAW, GROUND AGRICULTURAL LIMESTONE CONTAINING MORE THAN 90 PERCENT CALCIUM CARBONATES (ADJUST PH LEVELS TO 6.5 TO 7.0). APPLY AT A RATE OF 6 TON/AC (240 LB/1,000 SF).
COMMERCIAL FERTILIZER	IN THE ABSENCE OF A SOIL TEST, USE 1000 LB/AC OF 10-20-20 (25 LB/1000 SF) MIXED INTO SEEDBED PRIOR TO SEEDING, OR IN A TANK WITH SEED WHEN HYDROSEEDING.
INOCULANT	INOCULANT FOR TREATING LEGUMINOUS SEEDS SHALL BE A STANDARD COMMERCIAL PRODUCT CONSISTING OF A SUITABLE CARRIER CONTAINING A CULTURE OF NITROGEN FIXING BACTERIA SPECIFIC FOR SEEDS TO BE INOCULATED. INOCULANT SHALL NOT BE USED LATER THAN DATE INDICATED ON THE CONTAINER.
MULCH	CLEAN OAT OR WHEAT STRAW SHALL BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT 1947. APPLY AT A RATE OF 140 POUNDS/1,000 SQUARE FEET (3 TONS PER ACRE). PRECAUTIONS SHALL BE TAKEN TO STABILIZE MULCH UNTIL THE VEGETATIVE COVER IS ESTABLISHED.
SEED MIXTURE	SEED MIXTURE SHALL BEAR A GUARANTEED STATEMENT OF ANALYSIS AND SHALL BE COMPOSED OF THE FOLLOWING VARIETIES AND MIXED IN PROPORTIONS SPECIFIED.

PERMANENT SEED MIXTURE	PROPORTION BY WEIGHT	MINIMUM PURITY
POA PRATENSIS KENTUCKY BLUEGRASS (COLUMBIA OR EQUAL) LOLIUM PERENNE	50%	95%
TURF-TYPE PERENNIAL RYEGRASS PERENNIAL RYEGRASS CITATION II PERENNIAL RYEGRASS	25%	98%

PERMANENT SEEDING	PERMANENT SEEDING SHALL BE APPLIED AT A RATE OF FOUR (4) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET.
PREPARATION OF SEEDING	GRADE AS NECESSARY TO BRING SUBGRADE TO A TRUE, SMOOTH SLOPE PARALLEL TO AND FOUR INCHES BELOW FINISH GRADE. PLACE TOPSOIL OVER SPECIFIED AREAS TO A DEPTH SUFFICIENTLY GREATER THAN SIX (6) INCHES SO THAT AFTER SETTLEMENT AND LIGHT ROLLING THE COMPLETE WORK WILL CONFORM TO LINES, GRADES AND ELEVATIONS SHOWN.

FERTILIZER AND AGRICULTURAL LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE SOIL BY ROTOTILLING OR OTHER METHOD TO A MINIMUM DEPTH OF FOUR (4) INCHES. THE ENTIRE SURFACE SHALL THEN BE REGRADDED AND ROLLED. AREAS TO BE SEEDDED SHALL THEN BE LOOSENEED TO A DEPTH OF TWO INCHES. SEEDING SHALL BE DONE IN TWO SEPARATE OPERATIONS. THE SECOND SEEDING SHALL BE DONE IMMEDIATELY AFTER THE FIRST AND AT RIGHT ANGLES TO THE FIRST SEEDING AND LIGHTLY RAKED INTO THE SOIL. MULCH SEEDDED AREAS IMMEDIATELY AFTER SEEDING.

8 C102	SEEDING SPECIFICATIONS
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2 C102	EROSION CONTROL FOR SEWER TRENCHES
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RECYCLING/DISPOSAL OF WASTE

UPON COMPLETION OF THE PROJECT, RECYCLING OR DISPOSAL OF ALL WASTE MATERIALS SHALL BE THE RESPONSIBILITY OF THE EARTHMOVING CONTRACTOR. CONSTRUCTION WASTE INCLUDES, BUT IS NOT LIMITED TO, EXCESS SOIL MATERIALS, SILT REMOVED FROM EROSION CONTROL FACILITIES, EXCESS BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, AND OBSOLETE EROSION CONTROL MATERIALS (SILT FENCE, SILT SACKS, ETC.).

SILT REMOVED FROM SEDIMENT CONTROL FACILITIES SHALL BE SPREAD ON THE TOPSOIL STOCKPILE, OR IN LAWN OR LANDSCAPE AREAS. OBSOLETE EROSION CONTROL MATERIALS AND EXCESS BUILDING MATERIALS MUST BE DISPOSED OF AT A DEP APPROVED SITE.

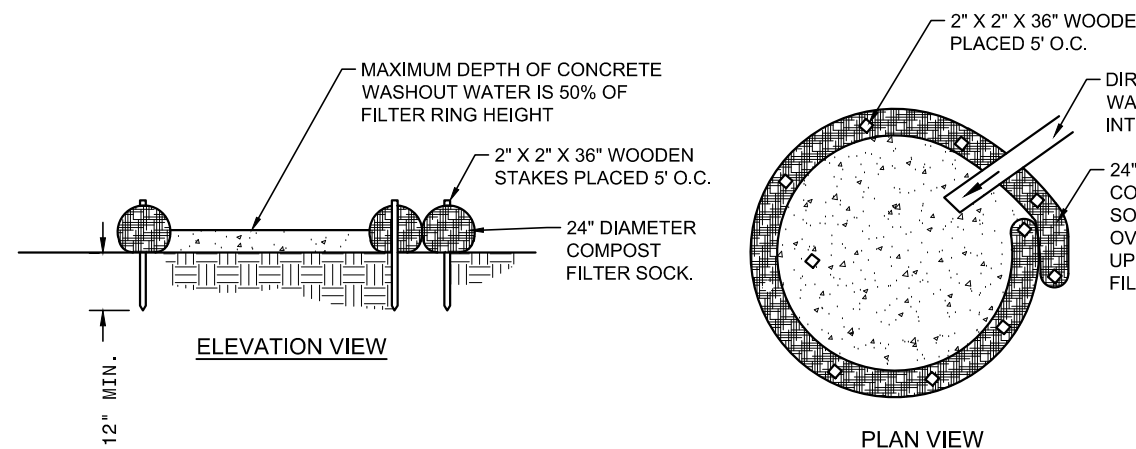
3 C102	RECYCLING / DISPOSALS OF WASTE
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MAINTENANCE AND INSPECTION SCHEDULE

CONTROL MEASURE	INSPECT	PROBLEMS TO LOOK FOR	POSSIBLE REMEDIES
VEGETATION	WEEKLY AND AFTER EVERY RUNOFF EVENT	SEDIMENT AT TOE OF SLOPE RILLS AND GULLIES FORMING BARE SOIL PATCHES	CHECK FOR TOP-OF-SLOPE DIVERSION AND INSTALL IF NEEDED. FILL RILLS AND REGRADE GULLIES. RESEED, FERTILIZE, AND MULCH BARE AREAS.
COMPOST FILTER SOCK	WEEKLY AND AFTER EVERY RUNOFF EVENT	SEDIMENT ACCUMULATION ON UPSTREAM SIDE PONDING WATER TEARING OR RIPPING OF FABRIC	REMOVE SEDIMENT WHEN LEVEL REACHES HALF OF THE EFFECTIVE HEIGHT. REMOVE SEDIMENT OR ADD ADDITIONAL SILT SOCKS TO REDUCE SLOPE LENGTH. REPLACE RIPPED SECTION WITH NEW SILT SOCK.
CONCRETE WASHOUT FACILITY	DAILY	DAMAGED OR LEAKING WASHOUT ACCUMULATION OF MATERIALS (50% CAPACITY)	DEACTIVATED AND REPAIRED OR REPLACED AS NECESSARY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING.

- ALL MAINTENANCE INSPECTIONS SHALL BE LOGGED ONTO DEP FORM # 3150-FM-BWEW0083, DATED 2/2012, AND KEPT ON THE SITE AT ALL TIMES.
- ALL REPAIRS TO BE COMPLETED WITHIN 24 HOURS OF DISCOVERY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY CONTROL MEASURES DURING CONSTRUCTION.
- ALL DEVICES SHOULD BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF EVENT. IF DURING THESE INSPECTIONS, ANY DEVICE IS FOUND TO BE CLOGGED, DAMAGED, HALF-FULL OF SILT, OR NOT FULLY OPERATIONAL, THE DEVICE(S) SHALL BE CLEANED OF ALL DEBRIS.
- UPON COMPLETION OF THE PROJECT, RECYCLING OR DISPOSAL OF ALL TEMPORARY EROSION CONTROL MATERIALS SHALL BE THE RESPONSIBILITY OF THE EARTHMOVING CONTRACTOR.
- CONSTRUCTION WASTE INCLUDES, BUT IS NOT LIMITED TO, EXCESS SOIL MATERIALS, SILT REMOVED FROM EROSION CONTROL FACILITIES, EXCESS BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, AND OBSOLETE EROSION CONTROL MATERIALS (SILT FENCE, SILT SACKS, ETC.). OBSOLETE EROSION CONTROL MATERIALS AND EXCESS BUILDING MATERIALS MUST BE DISPOSED OF AT A DEP APPROVED SITE.
- SILT REMOVED FROM SEDIMENT CONTROL FACILITIES SHALL BE SPREAD ON THE TOPSOIL STOCKPILE, OR IN LAWN OR LANDSCAPE AREAS.

6 C102	MAINTENANCE AND INSPECTION SCHEDULE
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- NOTES:
- INSTALL ON FLAT GRADE FOR OPTIMAL PERFORMANCE.
 - 16" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
 - A SUITABLE IMPERVIOUS GEOMEMBRANE LINER SHALL BE PLACED AT THE LOCATION PRIOR TO THE INSTALLING THE SOCKS.

7 C102	CONCRETE WASHOUT AREA
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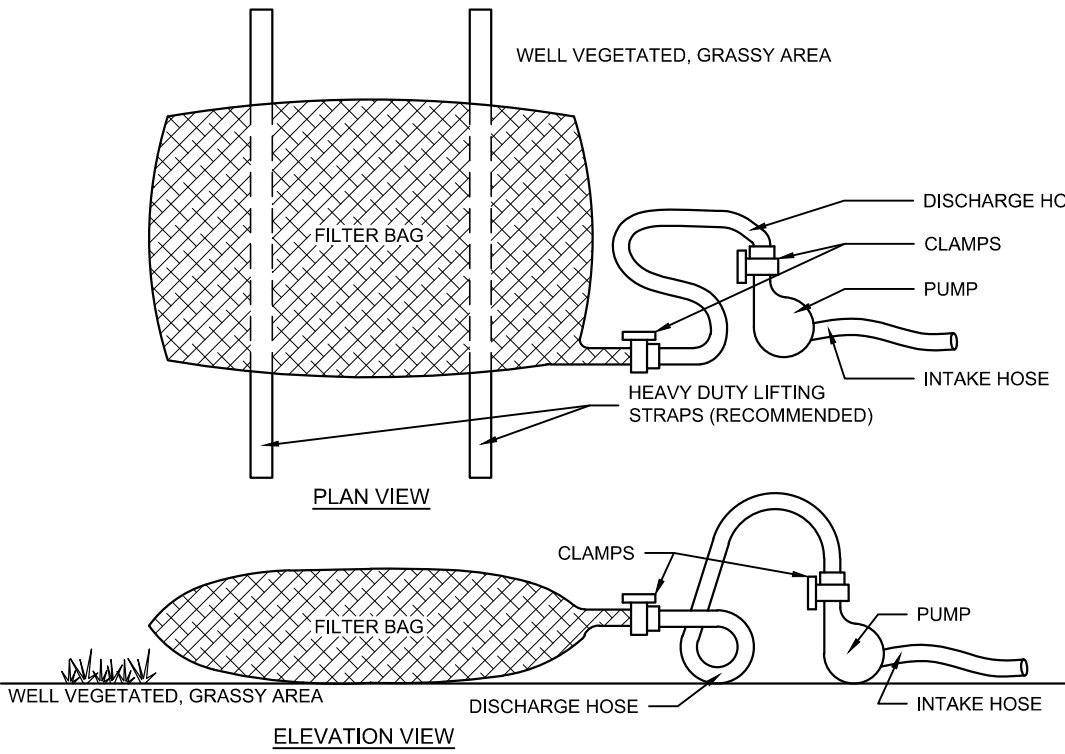
CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE:

IF THE SITE WILL NEED TO HAVE FILL IMPORTED FROM AN OFF SITE LOCATION, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL WILL RESIDE WITH THE CONTRACTOR RESPONSIBLE FOR EARTHMOVING OPERATIONS.

ENVIRONMENTAL DUE DILIGENCE MEANS PERFORMING INVESTIGATIVE TECHNIQUES FOR THE IMPORTED MATERIAL. THIS INCLUDES, BUT IS NOT LIMITED TO: VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTIONS SCREENS, ANALYTICAL TESTING, AND ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) POLICY. MANAGEMENT OF FILL. FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEP MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA CODE, CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)

9 C102	CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE
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NOTES:

1. FLOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS MAY BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 lb/in
GRAB TENSILE	ASTM D-4832	200 lb
PUNCTURE	ASTM D-4833	110 lb
MULLEN BURST	ASTM D-3786	350 psi
UV RESISTANCE	ASTM D-4353	350 psi
AOS % RETAINED	ASTM D-4751	80 Sieve

2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY HAVE BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. IT IS RECOMMENDED THAT BAGS BE PLACED ON STRAPS TO FACILITATE REMOVAL.

3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS, WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

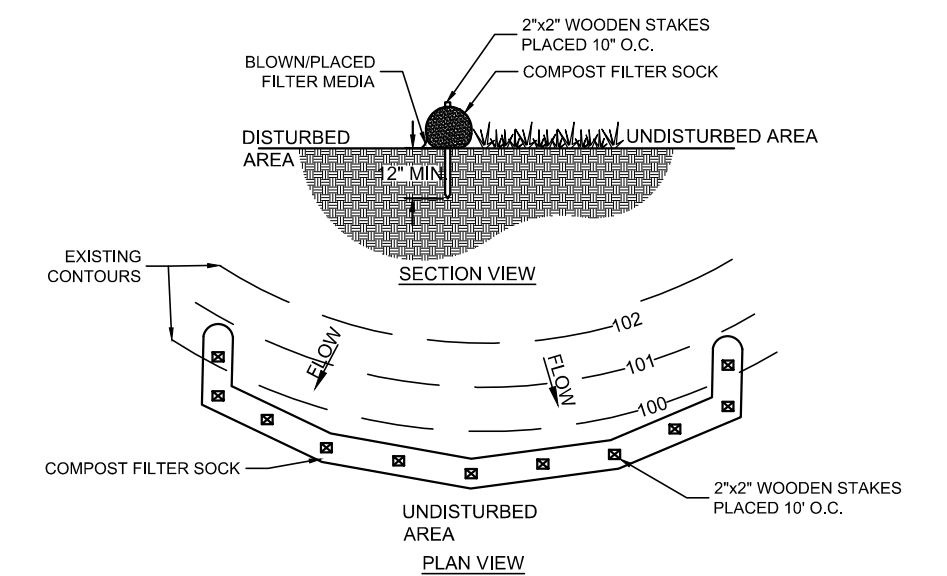
4. NO DOWN SLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHOULD BE INSTALLED BELOW BAGS LOCATED WITHIN 50' OF RECEIVING STREAM OR WHERE GRASSY AREA IS NOT AVAILABLE. A COMPOST BERM OR COMPOST FILTER SOCK SHALL BE PLACED BELOW ANY BAG DISCHARGING TO A SPECIAL PROTECTION SURFACE WATER.

5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

4 C102	PUMPED WATER FILTER BAG
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NOTES:

1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 6" UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 4.2. SEE TABLE BELOW.

2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

4. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

5. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

6. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

7. SILT SOCK FABRIC MATERIAL SHALL BE MULTIFILAMENT POLYPROPYLENE (MFPP), MINIMUM FUNCTIONAL LONGEVITY 1 YEAR.

8. SLOPE LENGTH TABLE FROM FIGURE 4.2, PADEP BMP MANUAL.

SILT SOCK DIAMETER	1:1 SLOPE	2:1 SLOPE
12"	12'	25'
16"	16'	33'
24"	24'	50'
36"	36'	75'

TABLE 4.1

MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTIFILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTIFILAMENT POLYPROPYLENE (HOMPP)
	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	80% DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12", 16", 24"	12", 16", 24"	12", 16", 24"	12", 16", 24"	12", 16", 24"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	3/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY (% ORG. STRENGTH ASTM G-55)	23% AT 1000 HR.	23% AT 1000 HR.	23% AT 1000 HR.	100% AT 1000 HR.	100% AT 1000 HR.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS

TWO-LAYER SYSTEMS		HOPE BIKAXIAL NET
INNER CONTAINMENT NETTING		CONTINUOUSLY WOUND
		FUSION-WELDED JUNCTURES
		1/2" X 3/4" MAX. APERTURE SIZE
OUTER FILTRATION MESH		COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAMINATE AND NON-WOVEN FLEECE MECHANICALLY FUSED WITH NEEDLE PUNCH)
		SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.

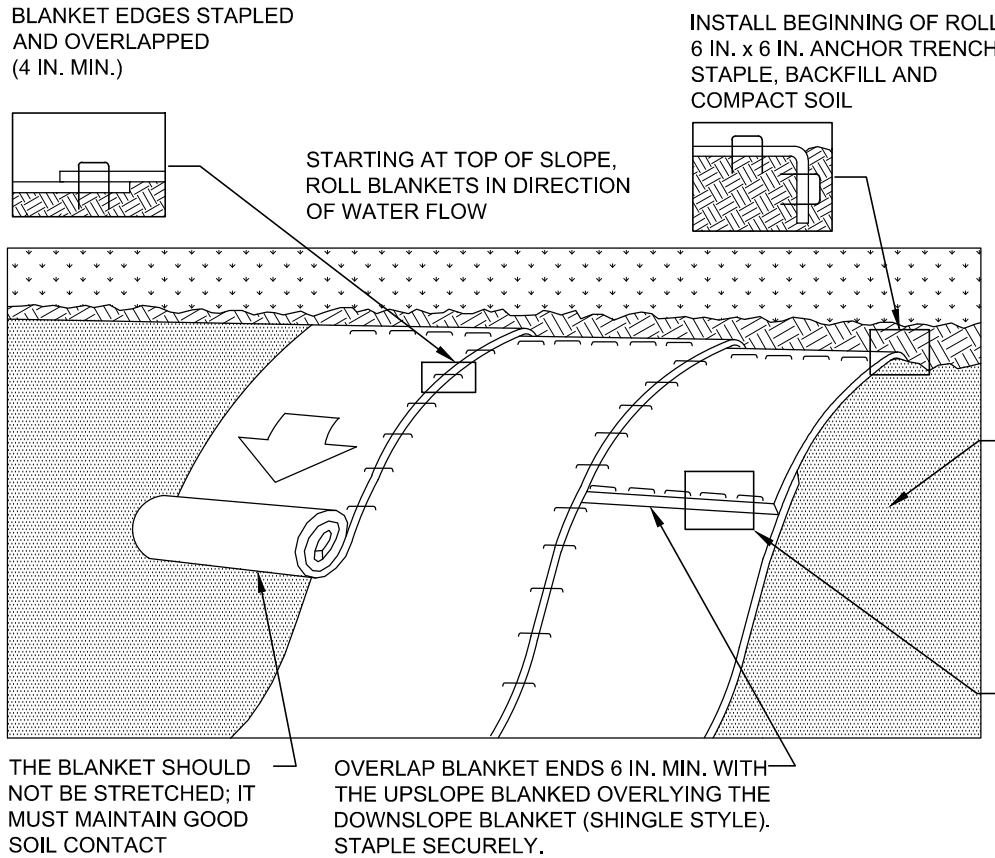
TABLE 4.2

ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
Ph	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30%-60% PASS THRU 3/8" SIEVE

COMPOST FILTER SOCK SUMMARY TABLE

FILTER SOCK #	DIAMETER (IN)	SLOPE ABOVE (%)	SLOPE LENGTH (FT)
1	12	12.5	8
2	24	20.0	5

10 C102	COMPOST FILTER SOCK DETAIL
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NOTES:

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOE OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

5 C102	EROSION CONTROL BLANKET
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STANDARD EROSION AND SEDIMENT CONTROL PLAN NOTES

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO A PRE-CONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSABLE BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE THAT QUALIFIES AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- VEHICLES AND EQUIPMENT MAY NEVER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE ONTO PUBLIC ROADS.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RETENING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- ALOG SHOWING DATAS THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SOIARDED TO A MINIMUM OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. REFER TO GEOTECHNICAL REPORT AND CROSS SECTIONS.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING EROSION DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISCOVERED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
- CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIALS/WASTES.
- EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
- FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 10' LAYERED LIFTS AT 90% DENSITY.

11 C102	STANDARD EROSION AND SEDIMENT CONTROL NOTES
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