PRELIMINARY PLANS
MOUNTAIN HOUSE
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP, LEHIGH COUNTY, PA
AUGUST 26, 2020
LAST REVISED SEPTEMBER 18, 2020

BARRY ISETT & associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS

610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

PROFESSIONAL LAND SURVEYOR'S STATEMENT

I, TIMOTHY J. SHERIDAN , DO HERESY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR, LICENSED AND REGISTERED TO PERFORM LAND SURVEYS IN THE COMMONWEALTH OF PENNSYLVANIA, PURSUANT TO THE PENNSYLVANIA ENGINEER, LAND SURVEYOR AND GEOLOGIST REGISTRATION LAW, ACT OF MAY 23, 1945, P.L. 913, AS AMENDED DECEMBER 16, 1992 FOUND AT 63 P.S. SECTION 148 ET SEA., AND DO HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED FROM A FIELD SURVEY, AND THAT TO THE BEST OF MY KNOWLEDGE THE PLAN COMPLIES WITH THE REQUIREMENTS OF THE SUBDIVISION AND LAND DEVELOPMENT ORDINANCE OF SALISBURY TOWNSHIP.

PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE
TIMOTHY J. SHERIDAN
85 SOUTH ROUTE 100
ALLENTOWN, PA. 18106

PROFESSIONAL ENGINEER'S STATEMENT

I, CHRISTOPHER J. WILLIAMS , DO HEREBY CERTIFY THAT I AM A PROFESSIONAL ENGINEER LICENSED AND REGISTERED TO PRACTICE ENGINEERING IN THE COMMONWEALTH OF PENNSYLVANIA, PURSUANT TO PENNSYLVANIA PROFESSIONAL ENGINEERS REGISTRATION LAW, ACT OF MAY 23, 1945, P.L. 913, AS AMENDED, AS FOUND AT 63 P.S. SECTION 148 ET SEQ., AND THAT THE ENGINEERING ASPECTS OF THE PLAN ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND I DO FURTHER CERTIFY THAT THE PLAN COMPLIES WITH THE REQUIREMENTS OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS OF SALISBURY TOWNSHIP.

PROFESSIONAL ENGINEER'S SIGNATURE DATE
CHRISTOPHER J. WILLIAMS
85 SOUTH ROUTE 100
ALLENTOWN, PA. 18106

PROFESSIONAL LANDSCAPE ARCHITECT'S STATEMENT

I, BRYAN SMITH , DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LANDSCAPE ARCHITECT, LICENSED AND REGISTERED TO PREPARE PLATS IN THE COMMONWEALTH OF PENNSYLVANIA, PURSUANT TO PENNSYLVANIA LANDSCAPE ARCHITECT'S REGISTRATION LAW OF JANUARY 24, 1996 (1965 P.L. 1527, NO. 535), AND HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED FROM A FIELD SURVEY, AND THAT TO THE BEST OF MY KNOWLEDGE THE PLAN COMPLIES WITH THE REQUIREMENTS OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS OF SALISBURY TOWNSHIP.

PROFESSIONAL LANDSCAPE ARCHITECT'S SIGNATURE DATE
BRYAN SMITH
85 SOUTH ROUTE 100
ALLENTOWN, PA. 18106

OWNER'S STATEMENT

I/WE, THE OWNER(S) OF THIS PLAT OF LAND BEING DULY SWORN ACCORDING TO LAW, DEPOSE AND STATE THAT I AM/WE ARE THE SOLE OWNER(S) OF THIS PROPERTY IN PEACEFUL POSSESSION OF IT AND THAT THERE ARE NO SUITS PENDING AFFECTING THE TITLE OF SAME, AND THAT I/WE HEREBY DEDICATE TO THE TOWNSHIP OF SALISBURY FOR PUBLIC USE ALL THE ROAD RIGHTS-OF-WAY, UTILITY EASEMENTS AND RIGHTS-OF-WAY OF PUBLIC IMPROVEMENTS SUCH AS SEWER LINES AND STORM DRAINAGE FACILITIES AS SHOWN ON THIS SUBDIVISION PLAN. I/WE DO FURTHER DEPOSE AND STATE THAT I/WE HAVE COMPLIED WITH ALL THE REQUIREMENTS AND PROVISIONS OF THE SALISBURY TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND SHALL SAVE THE TOWNSHIP HARMLESS AND INDEMNIFY THE TOWNSHIP OF SALISBURY AGAINST ANY LIABILITY OR LOSS RESULTING FROM THE SUBDIVISION OF THIS PLAT FOR WHATEVER REASONS PRESENT OR FUTURE.

OWNER'S SIGNATURE DATE

OWNER'S SIGNATURE DATE

OWNER'S SIGNATURE DATE

SWORN TO AND SUBSCRIBED
BEFORE ME THIS _____
DAY OF _____ 20__.

NOTARY PUBLIC

MY COMMISSION EXPIRES _____

REVIEW/APPROVAL/RECORDING SIGNATURE BLOCKS

REVIEWED BY THE LEHIGH VALLEY PLANNING COMMISSION OF LEHIGH AND NORTHAMPTON COUNTIES.

LVPC STAFF PERSON RESPONSIBLE FOR REVIEW DATE

APPROVED BY THE SALISBURY TOWNSHIP ENGINEER

DATE

RECOMMENDED FOR APPROVAL BY THE SALISBURY TOWNSHIP PLANNING COMMISSION

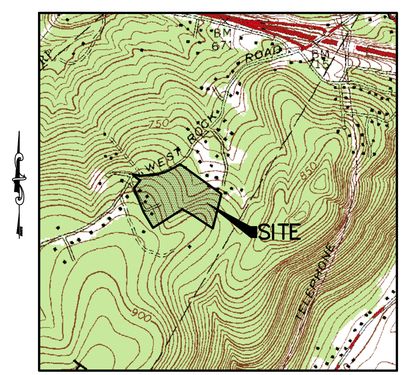
CHAIRMAN SECRETARY DATE

APPROVED BY THE SALISBURY TOWNSHIP BOARD OF COMMISSIONERS

PRESIDENT SECRETARY DATE

RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS LEHIGH COUNTY, PENNSYLVANIA ON _____, 20__, IN MAP BOOK VOLUME _____ PAGE _____.

LEHIGH COUNTY RECORDER OF DEEDS



LOCATION MAP
SCALE: 1"=1000'

PLAN INDEX			
PLAN DESIGNATION	PLAN TITLE	PLAN NO.	LAST REV.
* TS-1	TITLE SHEET	1 of 16	9/18/20
* SP-1	SITE DEVELOPMENT PLAN	2 of 16	9/18/20
EF-1	EXISTING FEATURES PLAN	3 of 16	9/18/20
DM-1	DEMOLITION PLAN	4 of 16	9/18/20
GP-1	GRADING PLAN	5 of 16	9/18/20
UP-1	UTILITY PLAN	6 of 16	9/18/20
PP-1	UTILITY PROFILES	7 of 16	9/18/20
* LA-1	LANDSCAPE PLAN	8 of 16	9/18/20
LI-1	LIGHTING PLAN	9 of 16	9/18/20
* PC-1	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN	10 of 16	9/18/20
* PCD-1	POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS	11 of 16	9/18/20
* PCD-2	POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS	12 of 16	9/18/20
ES-1	EROSION & SEDIMENT CONTROL PLAN	13 of 16	9/18/20
ESD-1	EROSION & SEDIMENT CONTROL DETAILS	14 of 16	9/18/20
ESD-2	EROSION & SEDIMENT CONTROL DETAILS	15 of 16	9/18/20
DE-1	CONSTRUCTION DETAILS	16 of 16	9/18/20
* DENOTES PLANS TO BE RECORDED			

USERS (OWNERS, CONTRACTORS) OF THIS PLAN ARE ADVISED THAT ALL PLANS SHOWN IN THE ABOVE REFERENCED PLAN INDEX SHALL BE UTILIZED WHEN PREPARING ESTIMATES, MANUFACTURING STRUCTURES, AND PERFORMING CONSTRUCTION. CERTAIN PLANS MAY HAVE FEATURES (EXISTING OR PROPOSED) WHICH MAY BE HIDDEN FROM VIEW TO PROVIDE CLARITY FOR THAT PARTICULAR PLAN. ALL DRAWINGS WITHIN THIS PLAN SET SHALL BE REVIEWED AND UTILIZED.

811
Know what's **below.**
Call before you dig.

NOTE:
"PURSUANT TO THE REQUIREMENTS OF PA ACT 287, AS AMENDED, ISETT CONTACTED ONE CALL, INC. FOR A DESIGN PHASE LOCATION REQUEST. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE-GROUND EXAMINATIONS OF THE SITE. COMPLETENESS, ACCURACY, LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. THE CONTRACTORS, AT LEAST THREE (3) DAYS PRIOR TO PERFORMING ANY EXCAVATIONS, SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND FACILITIES LOCATED WITHIN THE VICINITY OF THE WORK SITE IN ACCORDANCE WITH ACT 121. (PA ONE CALL SYSTEM, INC. 1-800-242-1776)."

THE SITE SERIAL NUMBER IS 20192770955.

SITE DATA:

RECORD OWNER:	GREAT VALLEY GIRL SCOUT COUNCIL
OWNER ADDRESS:	2638 W. ROCK ROAD ALLENTOWN, PA 18103
PARCEL ID:	640543637357 1
DOC. ID:	D.B.V. 1185, PG. 713;
SITE ADDRESS:	2648 W. ROCK ROAD ALLENTOWN, PA 18103
ASSESSMENT AREA	1.48 AC.
PARCEL ID:	640553129150 1
DOC. ID:	D.B.V. 1005, PG. 134; D.B.V. 953, PG. 368; D.B.V.. 861, PG. 63 TRIANGLE 1; D.B.V. 614, PG. 352; D.B.V. 610, PG. 262 TRACT 1; D.B.V. 843, PG. 311
SITE ADDRESS:	2638 W. ROCK ROAD ALLENTOWN, PA 18103
ASSESSMENT AREA:	13.89 AC.
NUMBER OF LOTS:	TWO (2-EXISTING), ONE (1-PROPOSED)
SEWER:	ON LOT
WATER:	ON LOT
OWNER:	USGS

ZONING DATA:

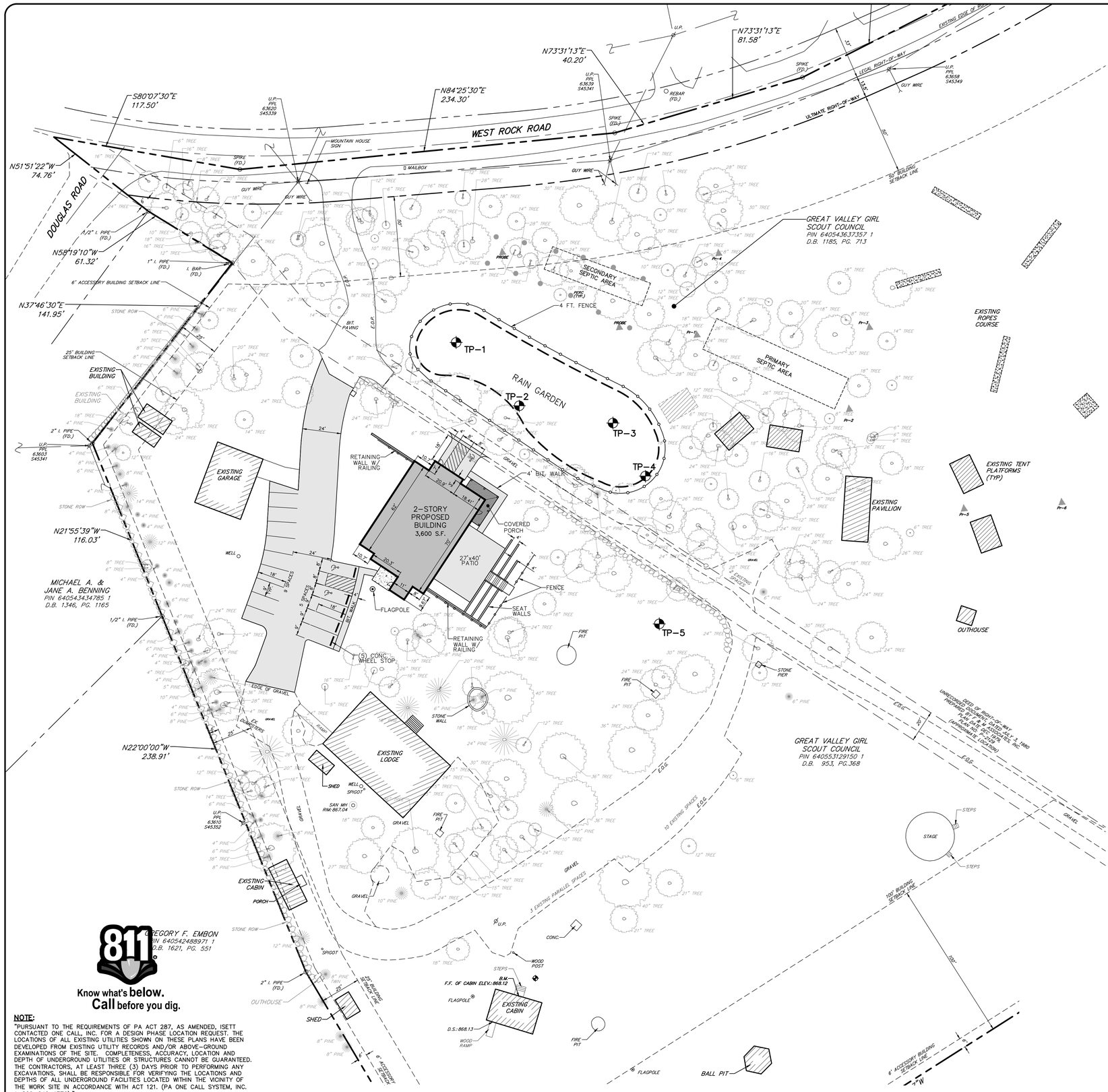
PROPOSED USE:	NON-PROFIT, PRIVATE RECREATION AREA
DISTRICT:	CR; CONSERVATION-RESIDENTIAL DISTRICT
MINIMUM LOT AREA:	2 ACRES
MINIMUM LOT WIDTH:	200 FT. 25 FT. (AT STREET RIGHT-OF-WAY LINE, AFTER DEVELOPMENT)
MINIMUM WIDTH & LENGTH OF DWELLING:	20 FT.
MINIMUM YARDS:	
FRONT:	50 FT.
SIDE:	25 FT. (EACH OF 2 SIDES)
REAR:	100 FT.
ADJACENT TO A PUBLIC STREET:	50 FT.
PERMITTED NONRESIDENTIAL PRINCIPAL STRUCTURE TO A LOT LINE OF A "RESIDENTIAL LOT LINE":	50 FT.
DRIVEWAYS FROM A LOT LINE OF AN EXISTING ABUTTING SINGLE FAMILY-DETACHED DWELLING:	6 FT.
MINIMUM YARDS ACCESSORY STRUCTURE:	
FRONT:	WITHIN REQUIRED MINIMUM FRONT YARD BUILDING SETBACK OF A PRINCIPAL BUILDING – NOT PERMITTED
SIDE:	6 FT.
REAR:	6 FT.
SIDE OR REAR ABUTTING A PUBLIC STREET:	20 FT.
MAXIMUM PRINCIPAL BLDG. HEIGHT:	45 FT.
MAXIMUM PRINCIPAL BLDG. STORIES:	2 1/2
MAXIMUM ACCESSORY BLDG. HEIGHT:	22 FT.
MAXIMUM ACCESSORY BLDG. STORIES:	1
MAXIMUM BLDG. COVERAGE:	10%
MAXIMUM IMPERVIOUS COVERAGE:	15%
EXISTING BLDG COVERAGE:	7,020 S.F.
PROPOSED BLDG. COVERAGE:	10,620 S.F.
EXISTING IMPERVIOUS COVERAGE:	0.92 AC. (6%)
PROPOSED IMPERVIOUS COVERAGE:	1.11 AC. (7%)

PARKING REQUIREMENTS:

55 SCOUTS/3	= 19 SPACES
10 EMPLOYEES/1.2	= 9 SPACES
TOTAL REQUIRED	= 28 SPACES
PAVED PROVIDED	= 14 SPACES
GRAVEL PROVIDED	= 18 SPACES
TOTAL PROVIDED	= 32 SPACES

NOTE: UP TO 50% OF REQUIRED PARKING MAY BE ON NON-PAVED SURFACES, THEREFORE, 14 PAVED AND 14 GRAVEL MEET THE REQUIREMENT OF 28 TOTAL SPACES.

ZONING NOTE:
ZONING DATA PROVIDED IS BASED ON AN INTERPRETATION OF THE ZONING ORDINANCE BY THE PLAN PREPARER AND IS SUBJECT TO CONFIRMATION BY THE APPROPRIATE MUNICIPAL OFFICIAL.



LOCATION MAP

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OWNER:	USGS

PARCEL "A" (EXISTING):	1.4853 ACRES
PARCEL "B" (EXISTING):	14.1650 ACRES
TOTAL LOT CONSOLIDATED AREA :	15.6503 ACRES (GROSS)

TOTAL LOT CONSOLIDATED AREA :	15.6503 ACRES (GROSS)
LESS ULTIMATE R/W AREA :	-0.4375 ACRES
TOTAL LOT CONSOLIDATED AREA :	15.2128 ACRES (NET)

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LEGEND

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
LOT LINE		
LEGAL RIGHT-OF-WAY		
ULTIMATE RIGHT-OF-WAY		
BUILDING SETBACK		
EASEMENT		
CURBING	DEPRESSED CURB	
BUILDING	EXIST. BUILDING	PROP. BUILDING
PAVEMENT		
CONCRETE WALKWAY		
SOIL BOUNDARY		
UTILITY POLE	U.P.	
OVERHEAD WIRES	O/L	
WATER MAIN & VALVE	W.V. W	
FIRE HYDRANT	F.H.	
GAS MAIN & VALVE	G.V. G	
SANITARY LINE, MANHOLE, & CLEANOUT	EXIST. MH SAN	C.O.
STORM LINE, MANHOLE, & INLET	EXIST. MH EXIST. INLET	PROP. MH PROP. INLET
CHAIN-LINK FENCE	CHAIN-LINK FENCE	
POST/SPLIT RAIL FENCE	POST/SPLIT RAIL FENCE	
WOOD FENCE	WOOD FENCE	
SIGN		
DECIDUOUS TREE	6" MAPLE	1 AR
EVERGREEN TREE	6" PINE	1 PS
TREE ROW		
CONTOUR	590	590
SPOT ELEVATION	×590.53	×590.53
EDGE OF PAVEMENT	E.O.P.	E.O.P.
EDGE OF GRAVEL	E.O.G.	E.O.G.
BITUMINOUS	BIT.	BIT.
TYPICAL	(TYP.)	(TYP.)
FINISHED FLOOR	F.F.	F.F.
DOOR SILL	D.S.	D.S.
TO BE REMOVED		(T.B.R.)

NOTE:
VERTICAL TEXT INDICATES PROPOSED FEATURES
SLANTED TEXT INDICATES EXISTING FEATURES

0 30' 60' 90'
SCALE: 1"=30'

Know what's **below.**
Call before you dig.

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THE SITE SERIAL NUMBER IS 20192770955.

PRELIMINARY PLANS

SITE DEVELOPMENT PLAN
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

BARRY ISETT & associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

DATE: 8/26/2020	DSGN: CJW
SCALE: 1"=30'	CHK: CJW
DRAWN: JAZ	APPRD: CJW
JOB: 1064119.000	P MGR: CJW

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SHEET: 2 OF 16

SP-1

FILENAME: \\Pdrives.com\work\Projects\2019\1064119.002_GSEP-Clubhouse\WORK_PRODUCT\LAND\CAD_Production\02_D064119_SitePlan_v2018.dwg - September 17, 2020 2:37 PM

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THE SITE SERIAL NUMBER IS 20192770955.

Slopes Table

Number	Minimum Slope	Maximum Slope	Area	Color
1	8.00%	12.00%	327996.63	
2	12.00%	15.00%	125332.41	
3	15.00%	25.00%	37959.29	
4	25.00%	100.00%	11077.73	

LEGEND

PROPERTY BOUNDARY
LOT LINE
BUILDING SETBACK
EASEMENT
CURBING — DEPRESSED CURB
BUILDING — EXIST. BUILDING
SOIL BOUNDARY
UTILITY POLE — U.P.
OVERHEAD WIRES — O/A
WATER MAIN & VALVE — W.V. — W
FIRE HYDRANT — F.H.
GAS MAIN & VALVE — G.V. — G
SANITARY LINE, MANHOLE, & CLEANOUT — EXIST. MH — SAN — C.O.
STORM LINE, MANHOLE, & INLET — EXIST. MH — EXIST. INLET
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SIGN
DECIDUOUS TREE — 6" MAPLE
EVERGREEN TREE — 6" PINE
TREE ROW
CONTOUR — 590
SPOT ELEVATION — x 590.53
SOIL TEST PIT — TP-1
EDGE OF PAVEMENT — E.O.P.
BITUMINOUS — BIT.
TYPICAL — (TYP.)
FINISHED FLOOR — F.F.

0 50' 100' 150'
SCALE: 1"=50'

PRELIMINARY PLANS

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

CHRISTOPHER JEFFREY WILLIAMS
PROFESSIONAL ENGINEER
PENNSYLVANIA
REGISTERED

BARRY ISETT & associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

EXISTING FEATURES PLAN
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
SCALE: 1"=50'	CHK: CJW
DRAWN: JAZ	APPRD: CJW
JOB: 1064119.000	P MGR: CJW

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SHEET: 3 OF 16

EF-1

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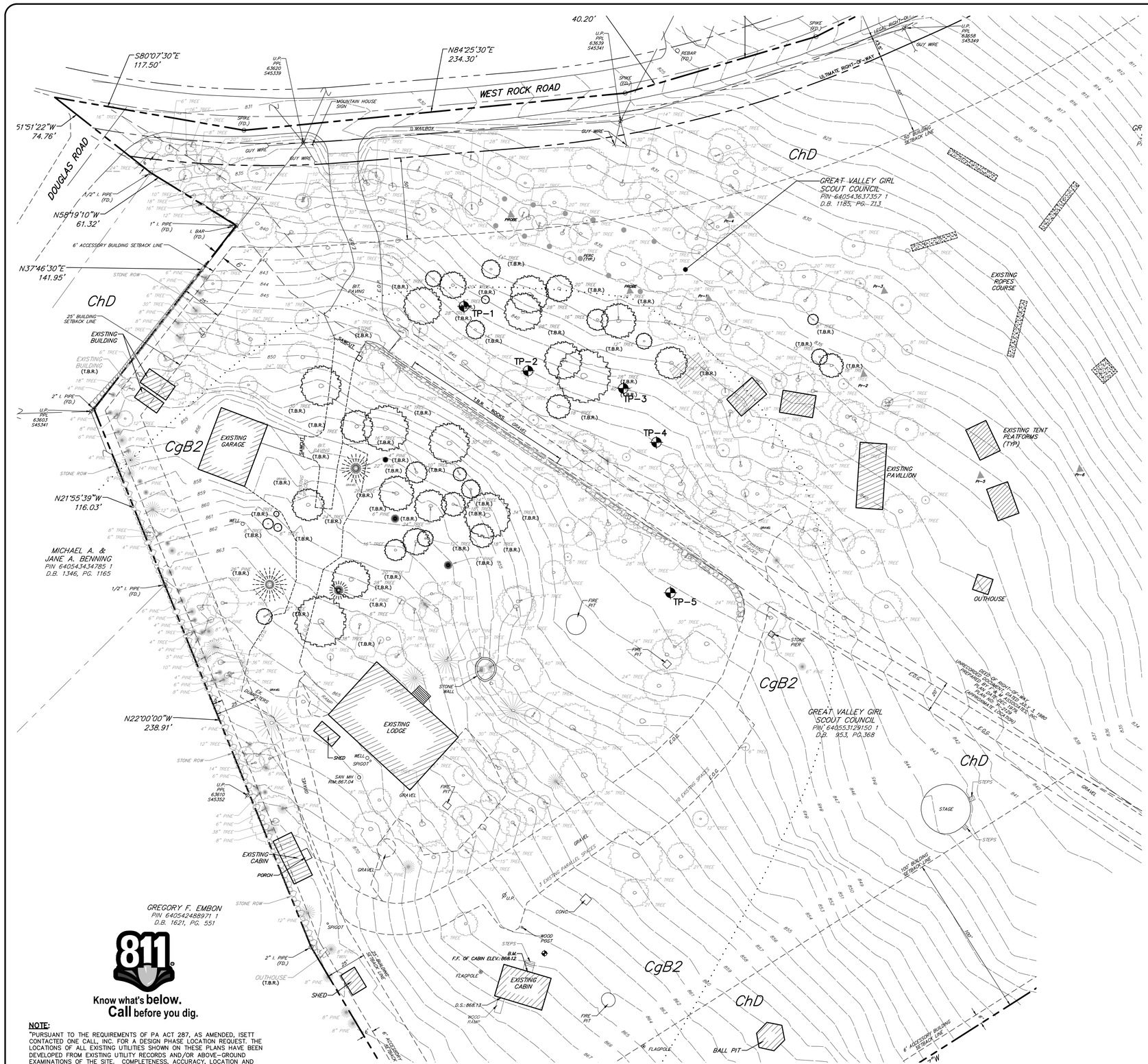

811 Know what's below. Call before you dig.

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ULTIMATE RIGHT-OF-WAY		
BUILDING SETBACK		
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CURBING	DEPRESSED CURB	
BUILDING	EXIST. BUILDING	PROP. BUILDING
PAVEMENT		
CONCRETE WALKWAY		
SOIL BOUNDARY		
UTILITY POLE	U.P.	
OVERHEAD WIRES	O/L	
WATER MAIN & VALVE	W.V. W	W
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CHAIN-LINK FENCE	CHAIN-LINK FENCE	
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SIGN		
DECIDUOUS TREE	6" MAPLE	1 AR
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TREE ROW		
CONTOUR	590	590
SPOT ELEVATION	×590.53	×590.53
EDGE OF PAVEMENT	E.O.P.	E.O.P.
EDGE OF GRAVEL	E.O.G.	E.O.G.
BITUMINOUS	BIT.	BIT.
TYPICAL	(TYP.)	(TYP.)
FINISHED FLOOR	F.F.	F.F.
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DEMOLITION PLAN
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2638 W. ROCK ROAD
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LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
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DRAWN: JAZ	APPRD: CJW
JOB: 1064119.000	P MGR: CJW

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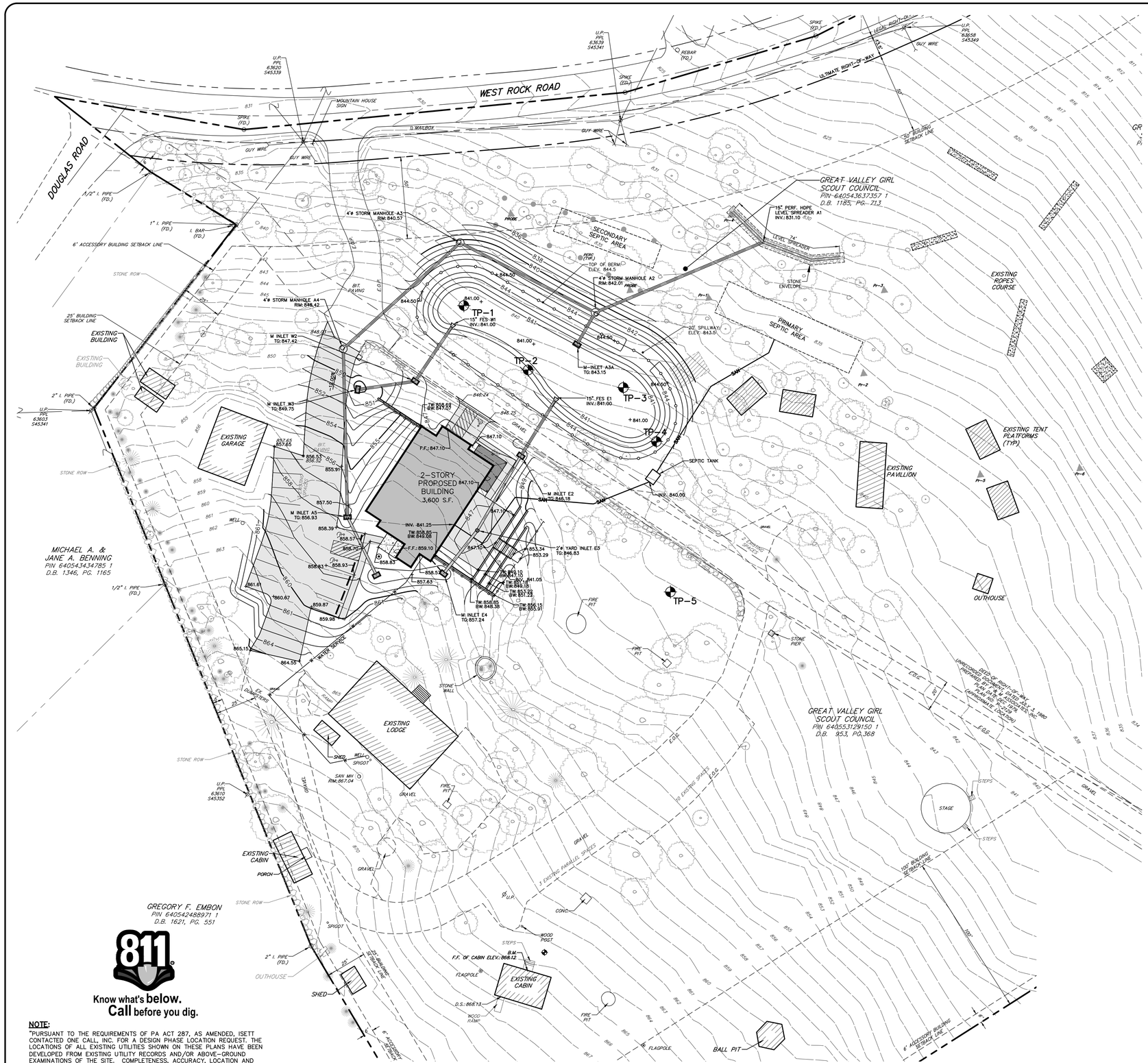
DM-1

FILENAME: \\barryisett.com\work\Projects\2019\1064119.000_GSEP-Clubhouse\WORK_PRODUCT\LAND\CAD_Production\03_1064119_ExistFeaturesPlan_v2018.dwg - September 17, 2020 2:39 PM



811

Know what's **below.**
Call before you dig.

NOTE:
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THE SITE SERIAL NUMBER IS 20192770955.

LEGEND

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
LOT LINE		
LEGAL RIGHT-OF-WAY		
ULTIMATE RIGHT-OF-WAY		
BUILDING SETBACK		
EASEMENT		
CURBING	DEPRESSED CURB	
BUILDING	EXIST. BUILDING	PROP. BUILDING
PAVEMENT		
CONCRETE WALKWAY		
SOIL BOUNDARY		
UTILITY POLE	U.P.	
OVERHEAD WIRES	O/L	
WATER MAIN & VALVE	W.V. W	
FIRE HYDRANT	F.H.	
GAS MAIN & VALVE	G.V. G	
SANITARY LINE, MANHOLE, & CLEANOUT	EXIST. MH SAN C.O.	
STORM LINE, MANHOLE, & INLET	EXIST. MH EXIST. INLET	PROP. MH PROP. INLET
CHAIN-LINK FENCE	CHAIN-LINK FENCE	
POST/SPLIT RAIL FENCE	POST/SPLIT RAIL FENCE	
WOOD FENCE	WOOD FENCE	
SIGN		
DECIDUOUS TREE	6" MAPLE	1 AR
EVERGREEN TREE	6" PINE	1 PS
TREE ROW		
CONTOUR	590	590
SPOT ELEVATION	×590.53	×590.53
EDGE OF PAVEMENT	E.O.P.	E.O.P.
EDGE OF GRAVEL	E.O.G.	E.O.G.
BITUMINOUS	BIT.	BIT.
TYPICAL	(TYP.)	(TYP.)
FINISHED FLOOR	F.F.	F.F.
DOOR SILL	D.S.	D.S.
TO BE REMOVED		(T.B.R.)

NOTE:
VERTICAL TEXT INDICATES PROPOSED FEATURES
SLANTED TEXT INDICATES EXISTING FEATURES

0 30' 60' 90'
SCALE: 1"=30'

PRELIMINARY PLANS

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

BARRY ISETT & associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

GRADING PLAN
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
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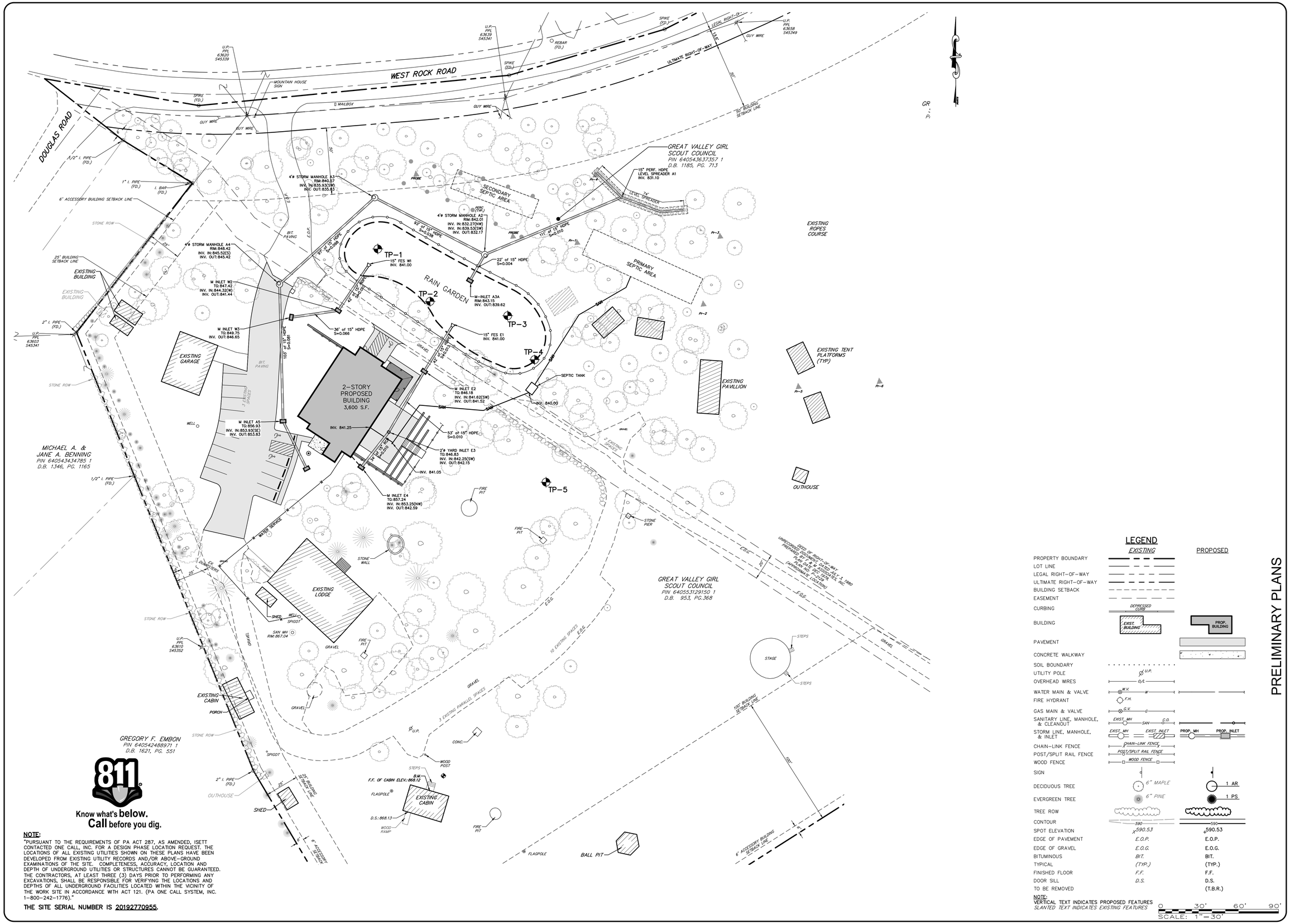

LEGEND

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
LOT LINE		
LEGAL RIGHT-OF-WAY		
ULTIMATE RIGHT-OF-WAY		
BUILDING SETBACK		
EASEMENT		
CURBING	DEPRESSED CURB	
BUILDING	EXIST. BUILDING	PROP. BUILDING
PAVEMENT		
CONCRETE WALKWAY		
SOIL BOUNDARY		
UTILITY POLE	U.P.	
OVERHEAD WIRES	O/A	
WATER MAIN & VALVE	W.V. W	
FIRE HYDRANT	F.H.	
GAS MAIN & VALVE	G.V. G	
SANITARY LINE, MANHOLE, & CLEANOUT	EXIST. MH SAN C.O.	
STORM LINE, MANHOLE, & INLET	EXIST. MH EXIST. INLET	PROP. MH PROP. INLET
CHAIN-LINK FENCE	CHAIN-LINK FENCE	
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THE SITE SERIAL NUMBER IS 20192770955.

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ALLENTOWN, PA 18106

UTILITY PLAN
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
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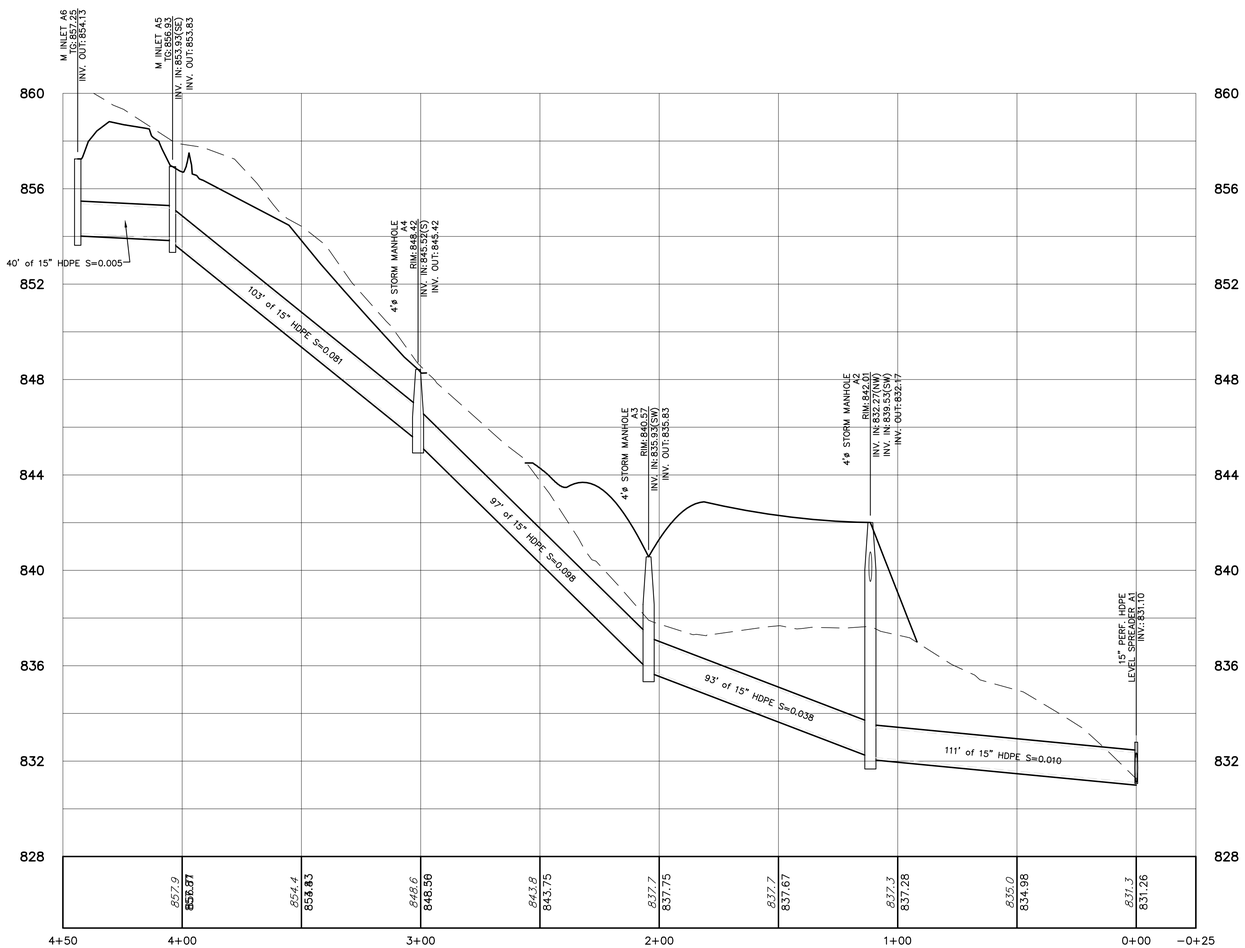
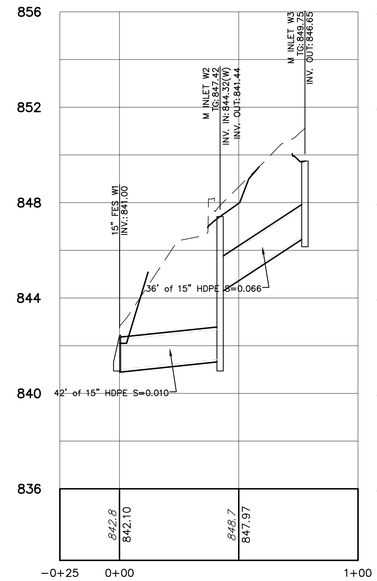


Bypass Storm

SCALE: 1"=30'(H), 1"=3'(V)



Western Storm

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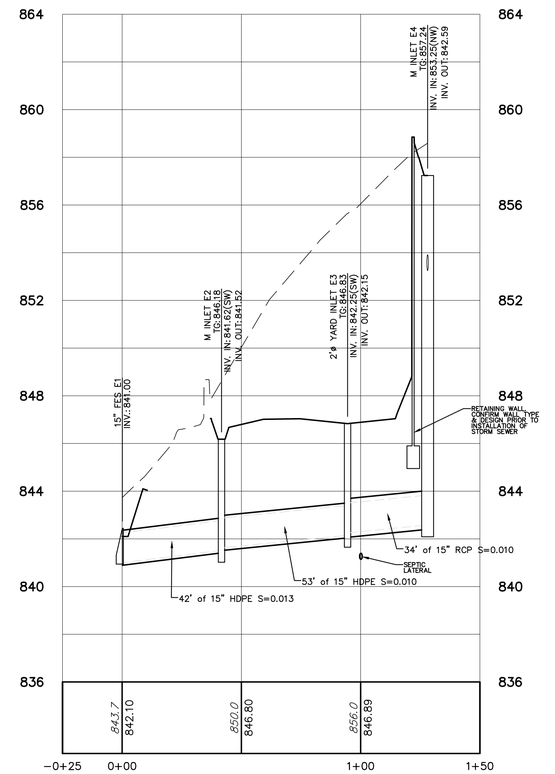
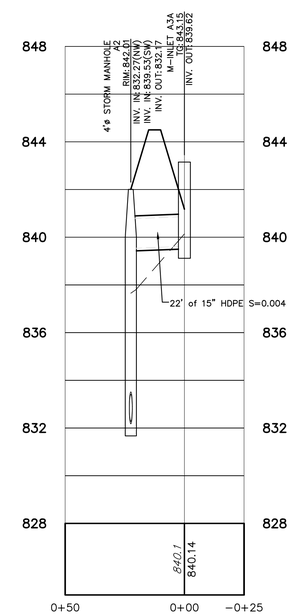


Eastern Storm

SCALE: 1"=30'(H), 1"=3'(V)



Rain Garden Discharge

SCALE: 1"=30'(H), 1"=3'(V)

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UTILITY PROFILES

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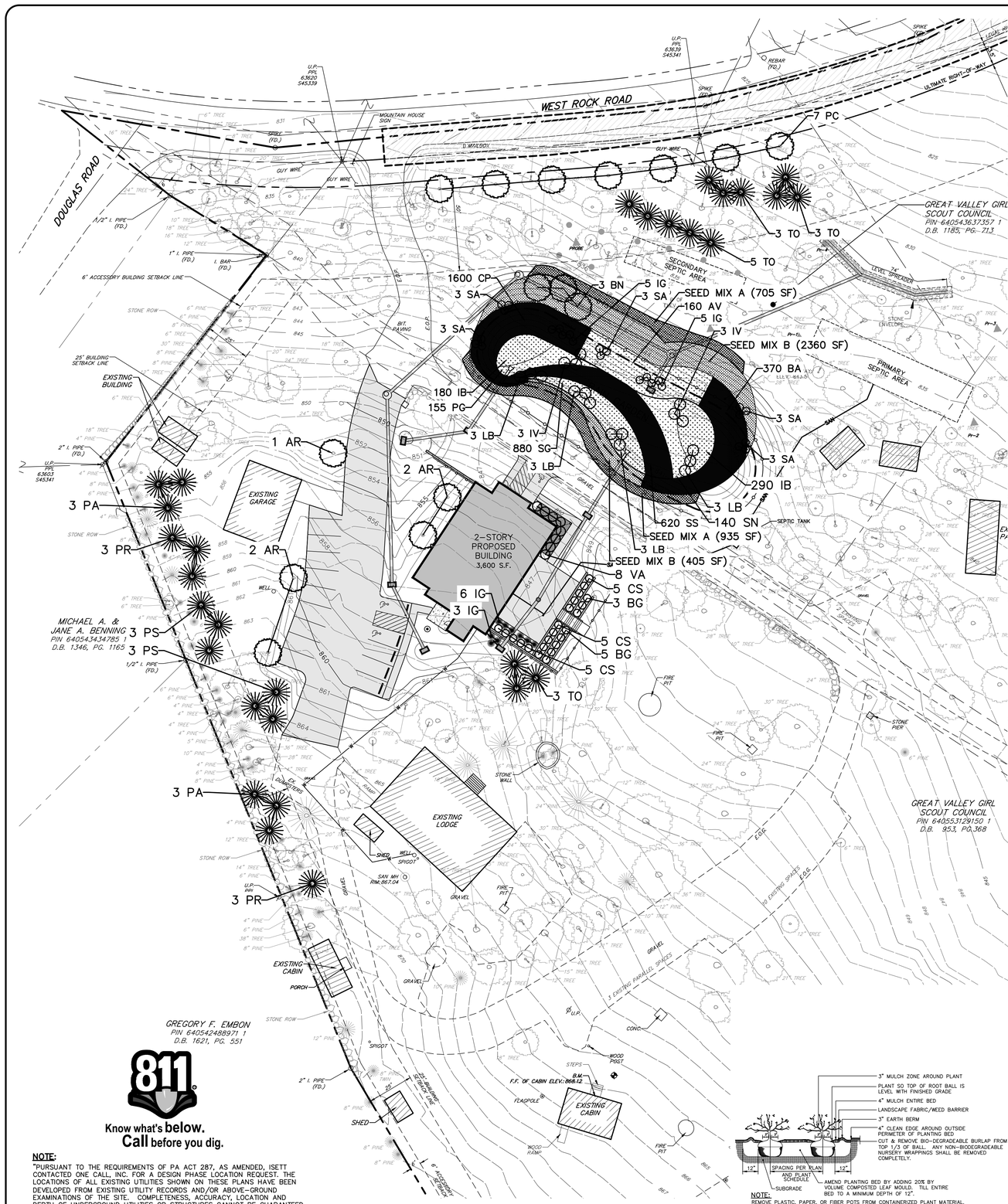


PLANTING NOTES

GENERAL

1. PROTECTION. DURING CONSTRUCTION, PROTECT ALL EXISTING VEGETATION, SITE FEATURES AND IMPROVEMENTS, STRUCTURES, AND UTILITIES. CLEAN UP ANY MATERIALS SPILLED ON ANY PAVED SURFACE AT THE END OF EACH WORKING DAY. THE GENERAL CONTRACTOR, AT THE SITE CONTRACTOR'S EXPENSE, SHALL REPAIR ANY DAMAGES CAUSED BY THE SITE CONTRACTOR.
2. UTILITIES. THE SITE CONTRACTOR SHALL VERIFY, LOCATE, AND MARK ALL UNDERGROUND UTILITY LINES IN WORK AREA PRIOR TO STARTING WORK. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM PERFORMANCE OF SITE WORK. UTILITY LOCATIONS ON PLANS ARE APPROXIMATE AND SHALL NOT BE USED TO MARK SITE UTILITIES. CONTACT PA ONE CALL BEFORE WORK START.
3. SOIL TESTS. A MINIMUM OF THREE SOIL TESTS SHALL BE PREFORMED AT THREE DIFFERENT AREAS ON THE SITE. THE SITE CONTRACTOR SHALL SUBMIT A SOIL TEST ANALYSIS REPORT FROM A SOIL TESTING LABORATORY APPROVED BY THE LANDSCAPE ARCHITECT, FOR REVIEW. TEST POINTS SHALL BE LOCATED ON A PLAN AND SUBMITTED WITH RESULTS.
4. SAMPLES. THE SITE CONTRACTOR SHALL SUBMIT SAMPLES AND COPIES OF THE MANUFACTURER'S AND/OR SOURCE DATA FOR ALL MATERIALS SPECIFIED, INCLUDING TOPSOIL, LIME, SULFUR, FERTILIZER, SAND, SOIL MIXES, HERBICIDES, SEED, MULCHES, AND ORGANIC MATERIALS.

MATERIALS

5. AMENDMENTS. THE SITE CONTRACTOR SHALL ADD SOIL AMENDMENTS RECOMMENDED BY THE SOIL TEST REPORT AT THE TIME OF SPREADING AND/OR GRADING AT NO ADDITIONAL CHARGE TO OWNER.
6. MULCH. MULCH SHALL BE DOUBLE SHREDDED HARDWOOD MULCH UNIFORM IN SIZE, AND FREE OF FOREIGN MATTER. SUBMIT SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT.
7. ORGANIC MATTER: LEAF MOULD COMPOSTED SUFFICIENTLY TO BREAK DOWN ALL WOODY FIBERS AND LEAF STRUCTURES, AND FREE OF TOXIC AND NON-ORGANIC MATTER SHALL BE COMMERCIALLY PREPARED. SUBMIT A 1 LB SAMPLE AND SUPPLIERS LITERATURE FOR APPROVAL BY LANDSCAPE ARCHITECT.
8. PLANTS. SITE CONTRACTOR SHALL PROVIDE ALL PLANTING AS SHOWN ON THE DRAWINGS. PLANTS SHALL BE TRUE TO SPECIES AND SIZE SPECIFIED. PLANTS ARE TO BE NURSERY-GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY (WITHIN 200 MILES) OF THE PROJECT FOR AT LEAST TWO YEARS. ALL PLANTS SHALL BE LABELED BY PLANT NAME AND SECURELY FASTENED TO ALL PLANTS WHEN DELIVERED. PLANTS SHALL BE SUBJECT TO INSPECTION FOR CONFORMITY TO SPECIFICATION REQUIREMENTS AND APPROVAL BY THE LANDSCAPE ARCHITECT. NO PLANTS WILL BE ACCEPTED WITH UNHEALED WOUNDS, BROKEN BRANCHES OR SEVERELY ROOT BOUND. ALL PLANT MATERIAL SHALL CONFORM TO AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS, AND A300, AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1, AND HORTUS THIRD.
9. SUBSTITUTIONS. SUBSTITUTIONS OF PLANT MATERIALS WILL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE LANDSCAPE ARCHITECT. IF PROOF IS SUBMITTED IN WRITING THAT A PLANT SPECIFIED IS NOT OBTAINABLE, CONSIDERATION WILL BE GIVEN TO THE NEAREST AVAILABLE SIZE OR SIMILAR VARIETY. THE PLANT LIST IS FOR THE SITE CONTRACTOR'S INFORMATION ONLY, AND NO GUARANTEE IS EXPRESSED OR IMPLIED THAT QUANTITIES THEREIN ARE CORRECT OR THAT THE LIST IS COMPLETE. CONTRACTOR IS RESPONSIBLE FOR THE PLANTS LOCATED ON THE PLAN.

PLANTING SEASON

10. PLANTING SHALL BE DONE WITHIN THE FOLLOWING DATES UNLESS OTHERWISE NOTED: SEPTEMBER 15 TO NOVEMBER 15 AND MARCH 15 TO MAY 15. OWNER AND SITE CONTRACTOR SHALL AGREE IN WRITING IF PLANTING OUTSIDE THESE DATES.

FINE GRADING

11. ALL FINE GRADING SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING, MULCHING, SODDING, OR SEEDING. SITE CONTRACTOR SHALL CLEAN TOPSOIL OF ROOTS, PLANTS, STONES, CLAY LUMPS AND OTHER EXTRANEOUS MATERIALS HARMFUL OR TOXIC TO PLANT GROWTH. SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL SAMPLE TEST SHALL BE TILLED INTO THE TOP 6" OF TOPSOIL.

PLANTING BEDS

12. SITE CONTRACTOR SHALL STAKEOUT LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED. APPROVAL OF THE STAKEOUT BY THE LANDSCAPE ARCHITECT IS REQUIRED BEFORE EXCAVATION BEGINS. BEFORE PLANTING, EXISTING WEEDS/UNDESIRED PLANTS IN AN AREA TO BE PLANTED SHALL BE ELIMINATED USING "ROUND-UP" OR APPROVED HERBICIDE AND REMOVED OF EXISTING GROWTH.
13. PREPARATION OF PLANTING SOIL. TREE, SHRUB, AND GROUNDCOVER BEDS ARE TO BE EXCAVATED TO THE DEPTH AND WIDTHS INDICATED ON THE DRAWINGS. SITE CONTRACTOR SHALL CLEAN TOPSOIL OF ROOTS, PLANTS, STONES, CLAY LUMPS AND OTHER EXTRANEOUS MATERIALS HARMFUL OR TOXIC TO PLANT GROWTH.
14. AMEND TOPSOIL AS PER SOIL TEST RESULTS AND DETAIL NOTES.

PLANTING OPERATIONS

15. INSTALL PLANT MATERIAL AS PER PLANTING DETAILS. ALL PLANTS SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
16. ALL NON-BIODEGRADABLE NURSERY WRAPPINGS AROUND THE ROOTS MUST BE REMOVED COMPLETELY.
17. THOROUGHLY WATER ALL PLANTS TWICE WITHIN THE FIRST 24 HOURS IMMEDIATELY AFTER PLANTING. APPLY WATER BY HOSE DIRECTLY TO THE ROOT BALL AND THE ADJACENT SOIL.
18. STAKE A TREE ONLY WHEN NECESSARY AS DETERMINED BY THE SITE CONTRACTOR AND WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.
19. MULCH ALL TREES, SHRUBS, AND PLANTING BEDS WITH MULCH PREVIOUSLY APPROVED BY THE LANDSCAPE ARCHITECT. MULCH MUST NOT BE PLACED WITHIN 3 IN. OF THE TRUNKS OF TREES OR SHRUBS.
20. ALL DISTURBED AREAS (INCLUDING UNDISTURBED AREAS TO BE ESTABLISHED AS LAWN) NOT INDICATED AS PAVING OR PLANTING SHALL BE PREPARED AS DESCRIBED IN FINE GRADING AND SEEDED WITH PERMANENT SEED MIXTURE AS PER SEEDING SCHEDULE.

MAINTENANCE PERIOD

21. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND CONTINUE UNTIL THE LANDSCAPE ARCHITECT HAS CONFIRMED ITS ACCEPTANCE.
22. MAINTENANCE SHALL CONSIST OF PRUNING, WATERING, CULTIVATING, WEEDING, MULCHING, TIGHTENING AND REPAIRING GUYS AND STAKES, RESETTING PLANTS TO PROPER GRADES OR UPRIGHT POSITION, RESTORING OF THE PLANTING SAUCER, AND FURNISHING AND APPLYING SUCH SPRAYS OR OTHER MATERIALS AS NECESSARY TO KEEP PLANTINGS FREE OF INSECTS AND DISEASES AND IN VIGOROUS CONDITION.

ACCEPTANCE

23. THE LANDSCAPE ARCHITECT SHALL INSPECT ALL WORK FOR ACCEPTANCE UPON WRITTEN REQUEST OF THE SITE CONTRACTOR.
24. ACCEPTANCE OF PLANT MATERIAL SHALL BE FOR GENERAL CONFORMANCE TO SPECIFIED SIZE, CHARACTER, AND QUALITY AND SHALL NOT RELIEVE THE SITE CONTRACTOR OF RESPONSIBILITY FOR FULL CONFORMANCE TO THE CONTRACT DOCUMENTS, INCLUDING CORRECT SPECIES.
25. UPON COMPLETION AND RE-INSPECTION OF ALL REPAIRS OR RENEWALS NECESSARY IN THE JUDGMENT OF THE LANDSCAPE ARCHITECT, THE LANDSCAPE ARCHITECT SHALL CERTIFY IN WRITING THAT THE WORK HAS BEEN ACCEPTED.

EIGHTEEN (18) MONTH GUARANTEE PERIOD AND REPLACEMENTS

26. THE SITE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL TO BE IN HEALTHY AND FLOURISHING CONDITION FOR A PERIOD OF EIGHTEEN MONTHS FROM THE DATE OF ACCEPTANCE.
27. THE SITE CONTRACTOR SHALL REPLACE, WITHOUT COST, AS SOON AS WEATHER CONDITIONS PERMIT, AND WITHIN A SPECIFIED PLANTING PERIOD, ALL PLANTS DETERMINED BY THE LANDSCAPE ARCHITECT TO BE DEAD OR IN AN UNACCEPTABLE CONDITION DURING AND AT THE END OF THE GUARANTEE PERIOD. TO BE CONSIDERED ACCEPTABLE, PLANTS SHALL BE FREE OF DEAD OR DYING BRANCHES AND BRANCH TIPS AND SHALL BEAR FOLIAGE OF NORMAL DENSITY, SIZE, AND COLOR. REPLACEMENTS SHALL CLOSELY MATCH ADJACENT SPECIMENS OF THE SAME SPECIES. REPLACEMENTS SHALL BE SUBJECT TO ALL REQUIREMENTS STATED IN THESE NOTES.
28. THE GUARANTEE OF ALL REPLACEMENT PLANTS SHALL EXTEND FOR AN ADDITIONAL PERIOD OF EIGHTEEN MONTHS FROM THE DATE OF THEIR ACCEPTANCE AFTER REPLACEMENT. IN THE EVENT THAT A REPLACEMENT PLANT IS NOT ACCEPTABLE DURING OR AT THE END OF SAID EXTENDED GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT MAY ELECT SUBSEQUENT REPLACEMENT OR CREDIT FOR THAT ITEM.
29. CLAIMS BY THE CONTRACTOR THAT THE OWNER'S MAINTENANCE PRACTICES OR LACK OF MAINTENANCE RESULTED IN DEAD OR DYING PLANTS WILL NOT BE CONSIDERED IF THE CONTRACTOR HAS NOT DOCUMENTED SUCH CLAIMS DURING THE GUARANTEE PERIOD.

FINAL INSPECTION AND FINAL ACCEPTANCE

30. AT THE END OF THE GUARANTEE PERIOD AND UPON WRITTEN REQUEST OF THE SITE CONTRACTOR, THE LANDSCAPE ARCHITECT WILL INSPECT ALL GUARANTEED WORK FOR FINAL ACCEPTANCE. UPON COMPLETION AND RE-INSPECTION OF ALL REPAIRS OR RENEWALS NECESSARY IN THE JUDGMENT OF THE LANDSCAPE ARCHITECT AT THAT TIME, THE LANDSCAPE ARCHITECT SHALL CERTIFY, IN WRITING, THAT THE PROJECT HAS RECEIVED FINAL ACCEPTANCE.
31. STREET TREES, SCREEN BUFFERS, SOFTENING BUFFERS AND OTHER REQUIRED PLANT MATERIAL SHALL BE PLANTED PRIOR TO THE ISSUANCE OF A USE AND OCCUPANCY PERMIT. IN LIEU OF PLANTING DUE TO SEASONAL CONSTRAINTS, THE LOCATION OF TREES SHALL BE STAKED AND THE DEVELOPER SHALL BE REQUIRED TO SUBMIT TO THE TOWNSHIP A MEMORANDUM SIGNED BY THE PURCHASER AT THE TIME OF SETTLEMENT. THIS MEMORANDUM SHALL INDICATE THAT THE PURCHASER UNDERSTANDS AND ACKNOWLEDGES THAT THE STAKES INDICATE THE LOCATION OF TREES TO BE PLANTED AND THAT THE TREES WILL BE PLANTED BY THE DEVELOPER.
32. DEVELOPER SHALL CONTACT THE TOWNSHIP IN WRITING TO REQUEST A FINAL INSPECTION FOR ACCEPTANCE AT THE END OF THE ONE YEAR GUARANTEE PERIOD.

PLANTING SCHEDULE

SYMBOL	QTY.	SCIENTIFIC NAME	COMMON NAME	ROOT	SIZE	NOTES
TREES						
* AR	5	ACER RUBRUM	RED MAPLE	B&B	2" CAL	SINGLE LEADER, FULL BRANCHING
PC	7	PRUNUS SARGENTII COLUMNARIS	RANCHO COLUMNAR SARGENT CHERRY	B&B	3.5" CAL.	SINGLE LEADER, FULL BRANCHING
PA	6	PICEA ABIES	NORWAY SPRUCE	B&B	7' HT. MIN.	SINGLE LEADER, FULL BRANCHING
* PR	4	PINUS RIGIDA	PITCH PINE	B&B	7' HT. MIN.	SINGLE LEADER, FULL BRANCHING
* PS	6	PINUS STROBUS	EASTERN WHITE PINE	B&B	7' HT. MIN.	SINGLE LEADER, FULL BRANCHING
* TO	14	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	B&B	7' HT. MIN	SINGLE LEADER, FULL BRANCHING
SHRUBS						
BG	8	BUXUS X 'GREEN GEM'	GREEN GEM BOXWOOD	CONT.	#3	DENSE, FULL BRANCHING
CS	8	CORNICE SERICEA 'ARCTIC FIRE'	RED TWIG DOGWOOD 'ARCTIC FIRE'	CONT.	#3	DENSE, FULL BRANCHING
IG	9	ILEX GLABRA	INKBERRY HOLLY	CONT.	#3	DENSE, FULL BRANCHING
VA	8	VIBURNUM ACERIFOLUM	MAPLELEAF VIBURNUM	CONT.	#3	DENSE, FULL BRANCHING
RAIN GARDEN						
TREES						
* BN	3	BETULA NIGRA	RIVER BIRCH	B&B	3.5" CAL.	MULTI-LEADER, FULL BRANCHING
SHRUBS						
LB	12	LINDERA BENZOIN	SPICEBUSH	CONT.	#3	DENSE, FULL BRANCHING
IV	6	ILEX VERTICILLATA	WINTERBERRY	CONT.	#3	DENSE, FULL BRANCHING
IG	10	ILEX GLABRA	INKBERRY HOLLY	CONT.	#3	DENSE, FULL BRANCHING
SA	15	SPIREA ALBA 'LATIFOLIA'	MEADOWSWEET	CONT.	#3	DENSE, FULL BRANCHING
PERENNIALS						
IB	470	IRIS VERSICOLOR	BLUE FLAG IRIS	PLUG	2"X5"	FULLY ESTABLISHED ROOT SYSTEM, 18"-24" SPACING
PG	155	PACKERA AUREA	GOLDEN RAGWORT	PLUG	2"X5"	FULLY ESTABLISHED ROOT SYSTEM, 18"-24" SPACING
SG	880	SOLIDAGO	GOLDENROD	PLUG	2"X5"	FULLY ESTABLISHED ROOT SYSTEM, 12"-18" SPACING
SN	140	SYMPHYOTRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER	PLUG	2"X5"	FULLY ESTABLISHED ROOT SYSTEM, 12"-36" SPACING
SS	620	SCHIZARCHYRIUM SCORPARIUM	LITTLE BLUESTEM	PLUG	2"X5"	FULLY ESTABLISHED ROOT SYSTEM, 18"-24" SPACING
CP	1600	COREOPSIS	COREOPSIS	PLUG	2"X5"	FULLY ESTABLISHED ROOT SYSTEM, 12"-18" SPACING
BA	370	BAPTISIA AUSTRALIS	BLUE FALSE INDIGO	PLUG	2"X5"	FULLY ESTABLISHED ROOT SYSTEM, 24"-36" SPACING
AV	160	ANDROPOGON VIRGINICUS	BROOMSEDGE	PLUG	2"X5"	FULLY ESTABLISHED ROOT SYSTEM, 36"-48" SPACING

* INDICATES NATIVE PLANT SELECTION TO BE USED FOR REVEGETATE/REFOREST BMP VOLUME CREDIT.

SEEDING MIX A - LOW GROW/NO MOW
APPLICATION RATE: 5 LBS PER 1,000 SF

SPECIES	MIX
HARD FESCUE	60%
CREPPING RED FESCUE	20%
CHEWINGS RED FESCUE	20%

SEEDING MIX B - ERNST SEED MIX 178
APPLICATION RATE: 20 LBS PER 1,000 SF

SPECIES	MIX
RIPARIAN BUFFER MIX	

TRIUMPH LOW GROW FESCUE SEED MIX
FM BROWN SONS SEED MIX, SINKING SPRING PA

SALISBURY TOWNSHIP LANDSCAPE REQUIREMENTS

LANDSCAPE IMPROVEMENTS	QTY.	UNIT	NO. PER	REQ.	PROVIDED
22-1016 (3.) (A.) SHADE AND TREET TREES	1	TREE	PER 30' LF	7 TREES	7 TREES
27-603 (8.) (D.) (1.) DESIGN STANDARDS FOR OFF STREET PARKING	1	TREE (DEC.)	PER 3000 SF	5 TREES	5 TREES
27-807 (2.) (A). (3.) BUFFER YARDS	30	FT	BUFFER WIDTH	30'	30'

LEGEND

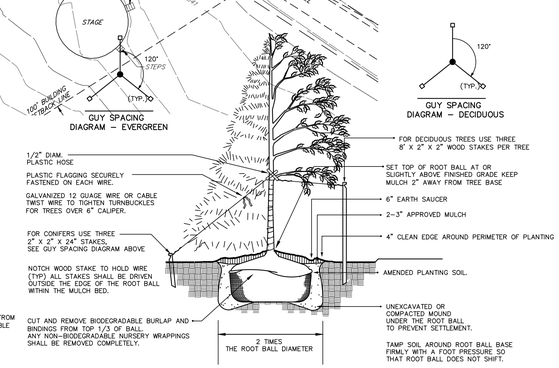
	EXISTING	PROPOSED
PROPERTY BOUNDARY		
LOT LINE		
LEGAL RIGHT-OF-WAY		
ULTIMATE RIGHT-OF-WAY		
BUILDING SETBACK		
EASEMENT		
CURBING	DEPRESSED CURB	
BUILDING	EXIST. BUILDING	PROP. BUILDING
PAVEMENT		
CONCRETE WALKWAY		
SOIL BOUNDARY		
UTILITY POLE	U.P.	
OVERHEAD WIRES	O/A	
WATER MAIN & VALVE	W.V. W	
FIRE HYDRANT	F.H.	
GAS MAIN & VALVE	G.V. G	
SANITARY LINE, MANHOLE, & CLEANOUT	EXIST. MH SAN C.O.	
STORM LINE, MANHOLE, & INLET	EXIST. MH EXIST. INLET	PROP. MH PROP. INLET
CHAIN-LINK FENCE	CHAIN-LINK FENCE	
POST/SPLIT RAIL FENCE	POST/SPLIT RAIL FENCE	
WOOD FENCE	WOOD FENCE	
SIGN		
DECIDUOUS TREE	6" MAPLE	1 AR
EVERGREEN TREE	6" PINE	1 PS
TREE ROW		
CONTOUR	590	590
SPOT ELEVATION	×590.53	×590.53
EDGE OF PAVEMENT	E.O.P.	E.O.P.
EDGE OF GRAVEL	E.O.G.	E.O.G.
BITUMINOUS	BIT.	BIT.
TYPICAL	(TYP.)	(TYP.)
FINISHED FLOOR	F.F.	F.F.
DOOR SILL	D.S.	D.S.
TO BE REMOVED		(T.B.R.)

NOTE:
VERTICAL TEXT INDICATES PROPOSED FEATURES
SLANTED TEXT INDICATES EXISTING FEATURES

0 30' 60' 90'
SCALE: 1"=30'

NOTE:
REMOVE PLASTIC, PAPER, OR FIBER POTS FROM CONTAINERIZED PLANT MATERIAL. PULL ROOTS OUT OF THE ROOT MAT, AND CUT CIRCLING ROOTS WITH A SHARP KNIFE. IMMEDIATELY AFTER REMOVING THE CONTAINER, INSTALL THE PLANT SUCH THT THE ROOTS DO NOT DRY OUT. PACK SOIL AROUND THE EXPOSED ROOTS WHILE PLANTING. WATER THOROUGHLY.

SHRUB BED
N.T.S.



NOTES:
1. TREE STAKING - (ONLY IF IT IS EXPECTED BY THE CONTRACTOR OR FOUND BY THE LANDSCAPE ARCHITECT THAT THE TREE WILL NOT SUPPORT ITSELF) TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 1.5" OF GROWTH AND BUFFER ALL BRANCHES FROM THE WIRE. TUCK ANY LOOSE ENDS OF THE WIRE CABLE INTO THE WIRE WRAP SO THAT NO SHARP WIRE ENDS ARE EXPOSED. ASSURE THAT THE BEARING SURFACE OF THE PROTECTIVE COVERING OF THE WIRE OR CABLE AGAINST THE TREE TRUNK REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS (USUALLY AFTER ONE GROWING SEASON) PROVIDE AND MAINTAIN WARNING FLAGS ON ALL WIRES.
2. REMOVE PLASTIC, PAPER, OR FIBER POTS FROM CONTAINERIZED PLANT MATERIAL. PULL ROOTS OUT OF THE ROOT MAT, AND CUT CIRCLING ROOTS WITH A SHARP KNIFE LOOSEN THE POTTING MEDIUM AND SHAKE AWAY FROM THE ROOT MAT. IMMEDIATELY AFTER REMOVING THE CONTAINER, INSTALL THE PLANT SUCH THAT THE ROOTS DO NOT DRY OUT. PACK PLANTING MIX AROUND THE EXPOSED ROOTS WHILE PLANTING. WATER THOROUGHLY.
3. TREE AND SHRUB MASSINGS SHALL BE ENCOMPASSED BY ONE LARGE MULCHED BED.

TREE PLANTING
N.T.S.

811
Know what's **below.**
Call before you dig.

NOTE:
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THE SITE SERIAL NUMBER IS 20192770955.

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

BARRY ISETT & Associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

PRELIMINARY PLANS

LANDSCAPE PLAN
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
SCALE: 1"=30'	CHK: CJW
DRAWN: JAZ	APPRD: CJW
JOB: 1064119.000	P MGR: CJW

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SHEET: 8 OF 16

LA-1

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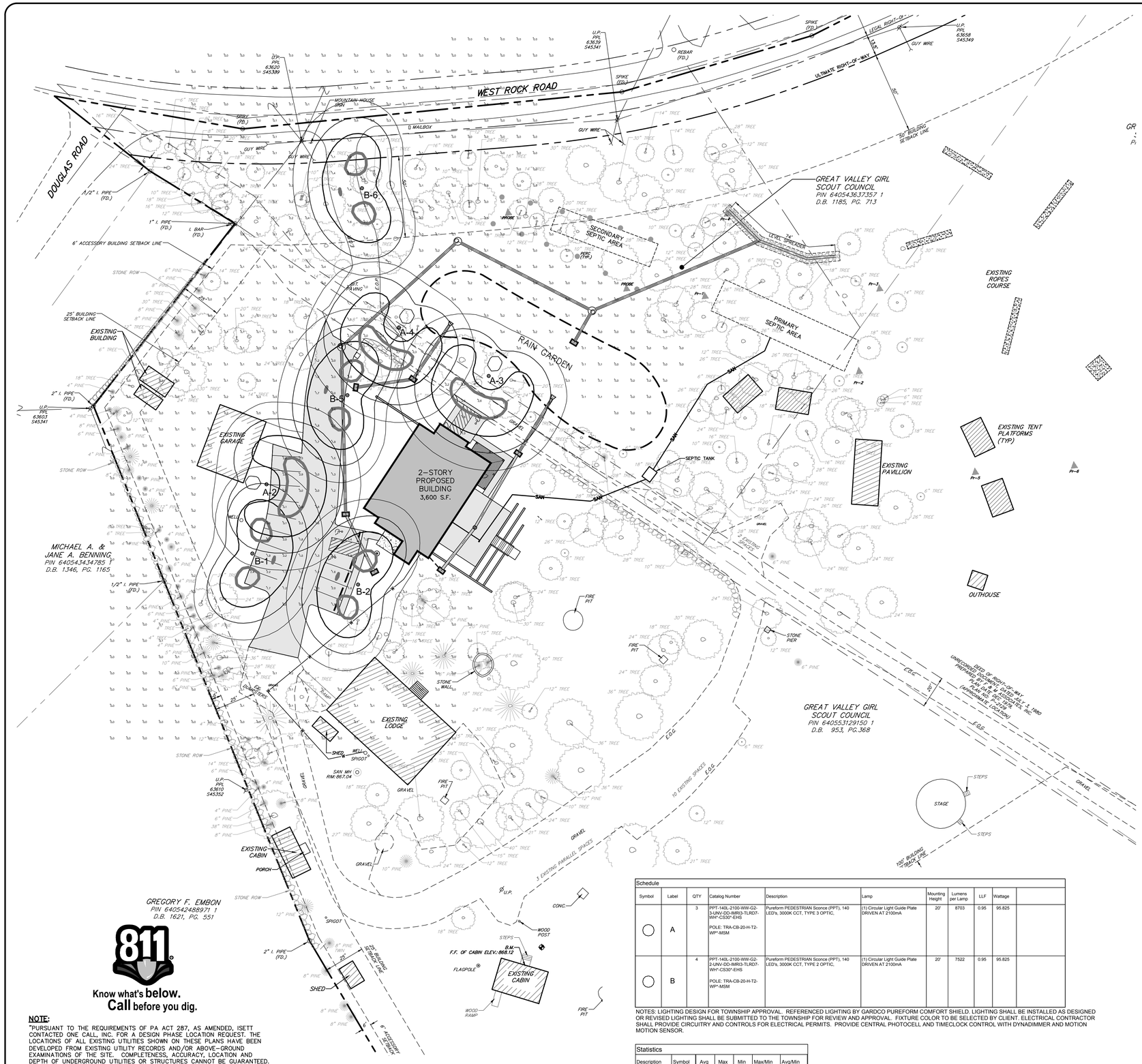

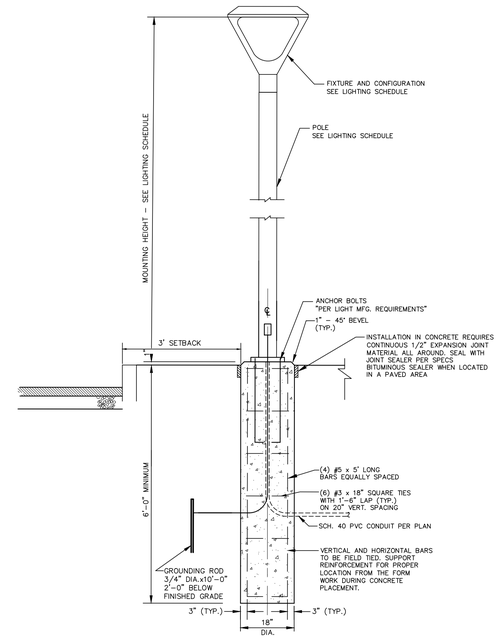

NOTES:
1. 3500 PSI MIN 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 REINFORCING STEEL.

LIGHT STANDARD DETAIL
N.T.S.

Schedule

Symbol	Label	QTY	Catalog Number	Description	Lamp	Mounting Height	Lumens per Lamp	LLF	Wattage	
	A	3	PPT-140L-2100-WW-G2-3-UNV-DD-IMR3-TLRD7-WH*-CS30*-EHS POLE: TRA-CB-20-H-T2-WP*-MSM	Pureform PEDESTRIAN Sconce (PPT), 140 LED's, 3000K CCT, TYPE 3 OPTIC,	(1) Circular Light Guide Plate DRIVEN AT 2100mA	20'	8703	0.95	95.825	
	B	4	PPT-140L-2100-WW-G2-2-UNV-DD-IMR3-TLRD7-WH*-CS30*-EHS POLE: TRA-CB-20-H-T2-WP*-MSM	Pureform PEDESTRIAN Sconce (PPT), 140 LED's, 3000K CCT, TYPE 2 OPTIC,	(1) Circular Light Guide Plate DRIVEN AT 2100mA	20'	7522	0.95	95.825	

NOTES: LIGHTING DESIGN FOR TOWNSHIP APPROVAL. REFERENCED LIGHTING BY GARDCO PUREFORM COMFORT SHIELD. LIGHTING SHALL BE INSTALLED AS DESIGNED OR REVISED LIGHTING SHALL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL. FIXTURE COLOR TO BE SELECTED BY CLIENT. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITRY AND CONTROLS FOR ELECTRICAL PERMITS. PROVIDE CENTRAL PHOTOCELL AND TIMECLOCK CONTROL WITH DYNADIMMER AND MOTION MOTION SENSOR.

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot	+	1.9 fc	3.6 fc	0.8 fc	4.5:1	2.4:1
ADA Lot	+	1.7 fc	3.0 fc	0.7 fc	4.3:1	2.4:1
Perimeter	+	0.1 fc	0.7 fc	0.0 fc	N/A	N/A

LEGEND

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
LOT LINE		
LEGAL RIGHT-OF-WAY		
ULTIMATE RIGHT-OF-WAY		
BUILDING SETBACK		
EASEMENT		
CURBING	DEPRESSED CURB	
BUILDING	EXIST. BUILDING	PROP. BUILDING
PAVEMENT		
CONCRETE WALKWAY		
SOIL BOUNDARY		
UTILITY POLE	U.P.	
OVERHEAD WIRES	O/A	
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CHAIN-LINK FENCE	CHAIN-LINK FENCE	
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THE SITE SERIAL NUMBER IS 20192770955.

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

CHRISTOPHER JEFFREY WILLIAMS
PROFESSIONAL ENGINEER
REGISTERED
COMMONWEALTH OF PENNSYLVANIA

BARRY ISETT & associates INC.
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

PRELIMINARY PLANS

LIGHTING PLAN
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
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JOB: 1064119.000	P MGR: CJW

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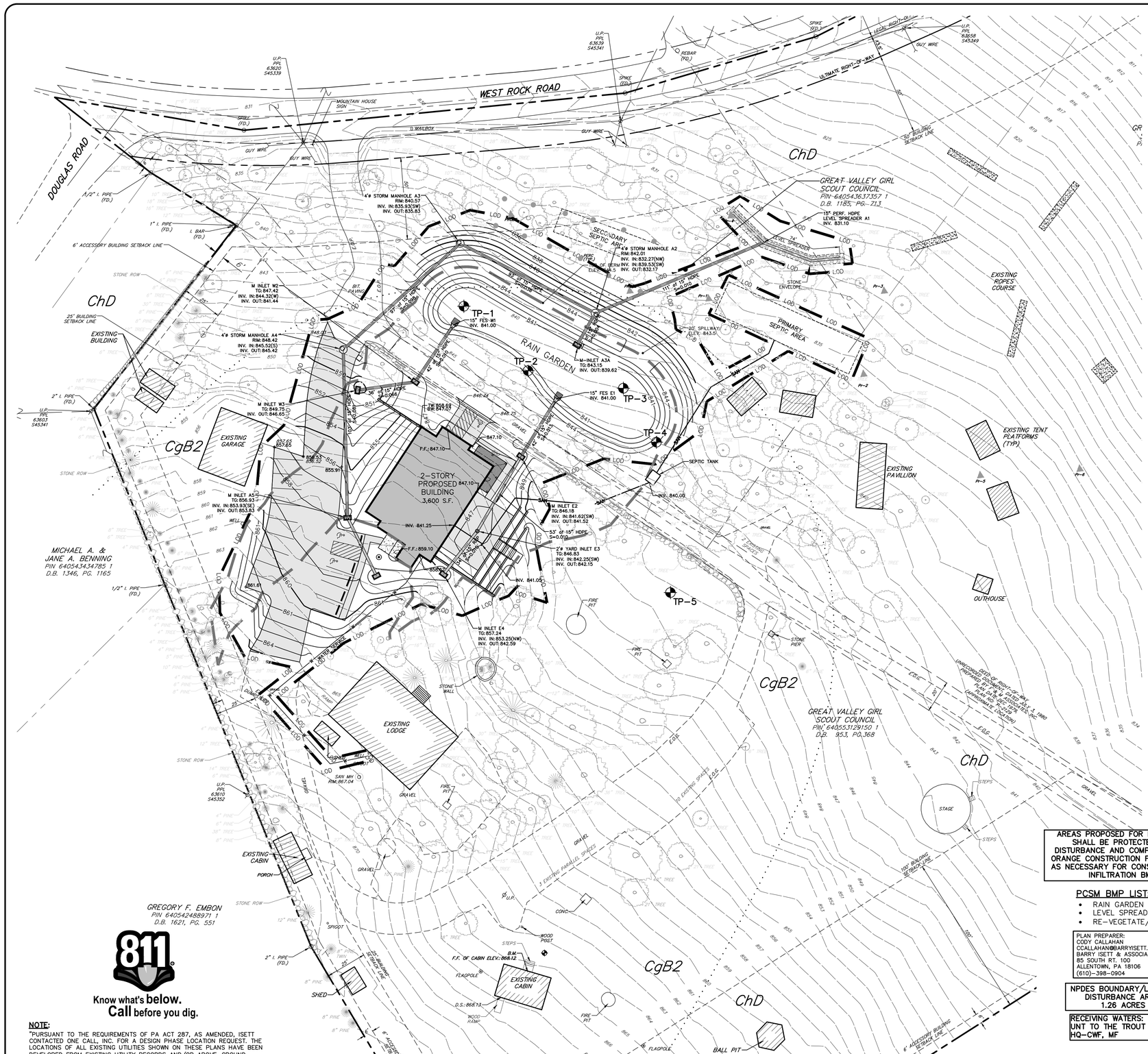

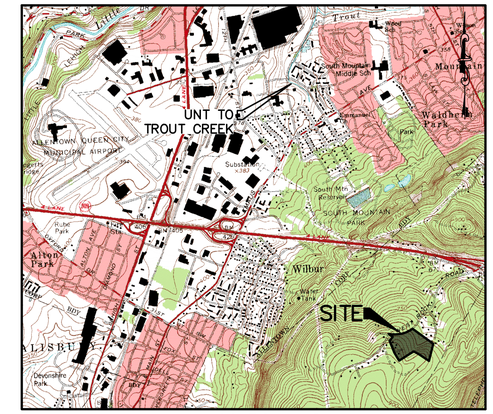

LOCATION MAP

SCALE: 1"=2000'

CRITICAL STAGES:

CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN FOR WHICH A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ON THE SITE:

- CONSTRUCTION OF RAIN GARDEN
- CONSTRUCTION OF LEVEL SPREADER

OWNER RESPONSIBITY NOTE:

THE PROPERTY OWNER, PREFERRED DEVELOPMENT SERVICES, INC. WILL BE RESPONSIBLE FOR THE OWNERSHIP AND MAINTENANCE RESPONSIBILITIES OF THE STORM SEWER SYSTEM AND ALL POST-CONSTRUCTION STORMWATER MANAGEMENT BMPS. STORMWATER BMPS ARE FIXTURES THAT CANNOT BE ALTERED OR REMOVED WITHOUT APPROVAL BY THE TOWNSHIP.

BABETTE RACCA — TITLE
GIRL SCOUTS OF EASTERN PENNSYLVANIA, INC.
330 MANOR ROAD
MIQUON, PA. 19444

PCSM LEGEND

LIMIT OF DISTURBANCE/NPDES BND	LOD
BASIN DRAINAGE BOUNDARY	
SWALE MATTING	
INFILTRATION TEST PIT	TP-3

LEGEND

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
LOT LINE		
LEGAL RIGHT-OF-WAY		
ULTIMATE RIGHT-OF-WAY		
BUILDING SETBACK		
EASEMENT		
CURBING	DEPRESSED CURB	
BUILDING	EXIST. BUILDING	PROP. BUILDING
PAVEMENT		
CONCRETE WALKWAY		
SOIL BOUNDARY		
UTILITY POLE	U.P.	
OVERHEAD WIRES	O/A	
WATER MAIN & VALVE	W.V. W	W
FIRE HYDRANT	F.H.	
GAS MAIN & VALVE	G.V. G	
SANITARY LINE, MANHOLE, & CLEANOUT	EXIST. MH SAN	SAN C.O.
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FINISHED FLOOR	F.F.	F.F.
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0 30' 60' 90'
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AREAS PROPOSED FOR INFILTRATION SHALL BE PROTECTED FROM DISTURBANCE AND COMPACTION WITH ORANGE CONSTRUCTION FENCE EXCEPT AS NECESSARY FOR CONSTRUCTION OF INFILTRATION BMPS.

PCSM BMP LIST:

- RAIN GARDEN
- LEVEL SPREADER
- RE-VEGETATE/REFOREST

PLAN PREPARER:
CODY CALLAHAN
CCALLAHAN@BARRYISETT.COM
BARRY ISETT & ASSOCIATES, INC.
85 SOUTH RT. 100
ALLENTOWN, PA 18106
(610)-398-0904

NPDES BOUNDARY/LIMIT OF DISTURBANCE AREA: 1.26 ACRES

RECEIVING WATERS: UNT TO THE TROUT CREEK HQ-CWF, MF

PCSM PLAN INDEX

DWG. NO.	PLAN TITLE
PC-1	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
PCD-1 to PCD-2	POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS
LA-1	LANDSCAPING PLAN

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CHRISTOPHER JEFFREY WILLIAMS — REGISTERED PROFESSIONAL ENGINEER — COMMONWEALTH OF PENNSYLVANIA
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106
BARRY ISETT & associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS

PRELIMINARY PLANS

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
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DATE: 8/26/2020	DSGN: CJW
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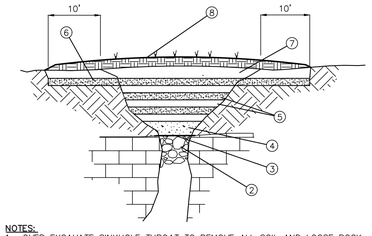
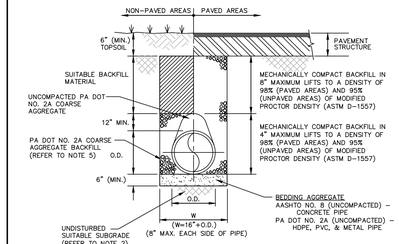


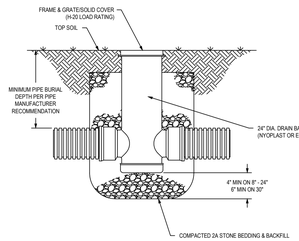
NOTES:
1. OVER EXCAVATE SINKHOLE THROAT TO REMOVE ALL SOIL AND LOOSE ROCK.
2. PLACE ROCK(S) TO PLUG SINKHOLE THROAT. ROCKS SHALL BE SIZED SO THEY CANNOT GO THROUGH THE THROAT FILL SMALL VOIDS WITH SMALLER ROCK TO LEVEL THE PLUG.
3. PLACE A THIN LIFT OF BENTONITE CLAY TO LEVEL THE ROCK PLUG. PLACE GEOTEXTILE DRAINAGE FABRIC OVER THE DISTURBED AREA, EMBEDDING 6" ON ALL EDGES. FABRIC TO HAVE TENSILE STRENGTH OF 90 LBS. AND AN EQUIVALENT OPENING SIZE OF SIEVE #200 MINIMUM.
4. LARGER OPENINGS MAY REQUIRE A CONCRETE PLUG. 18"–24" THICK.
5. PLACE BENTONITE CLAY/SOIL (1 TO 2 LBS./S.F., 8" LIFT, 95% MOD. PROCTOR). PLACE COMPACTED FINE–GRAINED NATIVE CLAY FILL (8" LIFTS, 95% MOD. PROCTOR) EVERY OTHER LIFT TO 12" BELOW FINAL GRADE.
6. INSTALL BENTONITE CLAY/SOIL CAP 10' BELOW THE EXCAVATION AS SHOWN.
7. GRADE NATIVE CLAY TO DRAIN AWAY FROM THE AREA.
8. PLACE 4" OF TOPSOIL, RESEED OR SOD TO STABILIZE.
9. ALL STABILIZATION WORK SHOULD BE DONE UNDER SUPERVISION OF A GEOLOGIST OR ENGINEER FAMILIAR WITH SITE AND FOUNDATION CONDITIONS.

SINKHOLE MITIGATION DETAIL
N.T.S.

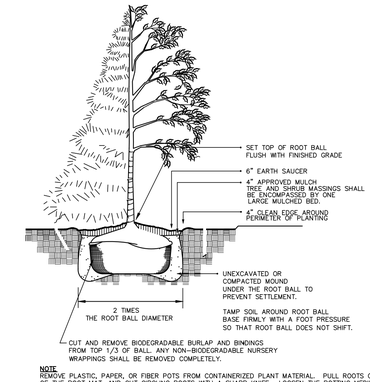


TYPICAL STORM PIPE TRENCH & BACKFILL
N.T.S.

NOTES:
1. EXCAVATE TRENCH BOX AND INSTALL SHORING AS REQUIRED TO COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND CODES.
2. IF UNSUITABLE MATERIAL IS FOUND, UNDERCUT AS DIRECTED BY THE ENGINEER AND BACKFILL WITH SUITABLE MATERIAL TO BOTTOM OF BEDDING ELEVATION.
3. KEEP EXCAVATINGS DRY AND FREE OF WATER. INTERCEPT AND DIVERT SURFACE DRAINAGE AWAY FROM EXCAVATIONS. DEWATER ANY PRECIPITATION AND SUBSURFACE WATER FROM EXCAVATIONS.
4. DO NOT ADVANCE TRENCHING OPERATIONS MORE THAN 200 FEET AHEAD OF COMPLETED PIPELINE.
5. ALL TRENCHES WITHIN PAVED AREAS SHALL BE BACKFILLED WITH FULL DEPTH PA DOT NO. 2A COARSE AGGREGATE.



24" DIA. NYOPLAST DRAIN BASIN
N.T.S.



NOTE
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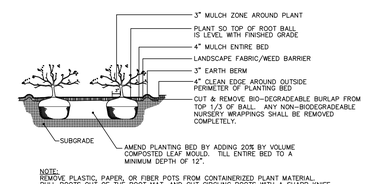
TREE PLANTING
N.T.S.



NOTE:
REMOVE PLASTIC, PAPER, OR FIBER POTS FROM CONTAINERIZED PLANT MATERIAL. PULL ROOTS OUT OF THE ROOT MAT, AND CUT CIRCLING ROOTS WITH A SHARP KNIFE. LOOSEN THE OR REMOVING THE CONTAINER, INSTALL THE PLANT SUCH THT THE ROOTS DO NOT DRY OUT. PACK SOIL AROUND THE EXPOSED ROOTS WHILE PLANTING. WATER THOROUGHLY.

SHRUB BED
N.T.S.

TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS

SPECIFICATIONS: THE DEPARTMENT RECOMMENDS THE USE OF THE PENN STATE PUBLICATION, "EROSION CONTROL AND CONSERVATION PLANTINGS ON NONCROPLAND", AS THE STANDARD TO USE FOR SELECTION OF SPECIES, SEED SPECIFICATIONS, MIXTURES, LIMING AND FERTILIZING, TIME OF SEEDING, AND SEEDING METHODS. SPECIFICATIONS FOR THESE ITEMS MAY ALSO BE OBTAINED FROM PENN DOT'S PUBLICATION # 408, SECTION 804 OR BY CONTACTING THE APPLICABLE COUNTY CONVERSATION DISTRICT. UPON SELECTION OF A REFERENCE, THAT REFERENCE SHOULD BE USED TO PROVIDE ALL SPECIFICATIONS FOR SEEDING, MULCHING, AND SOIL AMENDMENTS. THE FOLLOWING SPECIFICATION WILL BE USED FOR THIS PROJECT:

(TEMPORARY)

SPECIES:	ANNUAL RYEGRASS
%PURE LIVE SEED:	98 %
APPLICATION RATE:	40 LB./ACRE
FERTILIZER TYPE:	10–10–10 (X–X–X)
FERTILIZER APPL. RATE:	500 LB./ACRE
LIMING RATE:	1 T./ACRE
MULCH TYPE:	STRAW
MULCHING RATE:	3 T./ACRE

(PERMANENT)

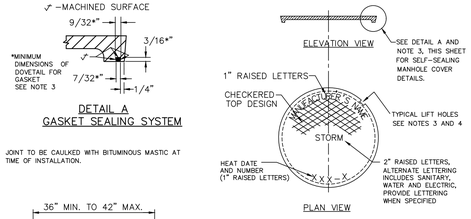
TOPSOIL PLACEMENT DEPTH:	6 IN.
SPECIES:	KENTUCKY BLUEGRASS + TURF TYPE PERENNIAL RYEGRASS FINE FESCUE (RED OR CHEWING)
%PURE LIVE SEED:	98 %
APPLICATION RATE:	(200 LBS./ACRE TOTAL) LB./ACRE
FERTILIZER TYPE:	10–20–20 (X–X–X)
FERTILIZER APPL. RATE:	1000 LB./ACRE
LIMING RATE:	6 T./ACRE
MULCH TYPE:	STRAW
MULCHING RATE:	3 T./ACRE
ANCHOR MATERIAL:	NON–ASPHALTIC CON TACK TACKIFIER
ANCHORING METHOD:	BY SPRAYING EQUIPMENT
RATE OF ANCHOR MATERIAL APPL.:	50 LB./ACRE
SEEDING SEASON DATES:	MARCH 15 – MAY 15 AUGUST 16 – OCTOBER 15

(PERMANENT–STEEP SLOPE)

TOPSOIL PLACEMENT DEPTH:	6 IN.
SPECIES:	FESTUCA RUBRA COMMUNATA + FESTUCA OVINA GLAUCA + FESTUCA OVINA DURISUCULA + FESTUCA RUBRA DAWSON + LOLIUM MULTIFORUM + FESTUCA RUBRA + FESTUCA RUBRA TRICHOPHYLLA
%PURE LIVE SEED:	98 %
APPLICATION RATE:	250 LB./ACRE
FERTILIZER TYPE:	10–20–20 (X–X–X)
FERTILIZER APPL. RATE:	1000 LB./ACRE
LIMING RATE:	6 T./ACRE
MULCH TYPE:	STRAW
MULCHING RATE:	3 T./ACRE
ANCHOR MATERIAL:	EROSION CONTROL BLANKETS/MATS
ANCHORING METHOD:	METAL STAPLES
RATE OF ANCHOR MATERIAL APPL.:	SEE PENNDOT PUB 408 SECTION 806.3(A) LB./ACRE
SEEDING SEASON DATES:	MARCH 15 – MAY 15 AUGUST 16 – OCTOBER 15

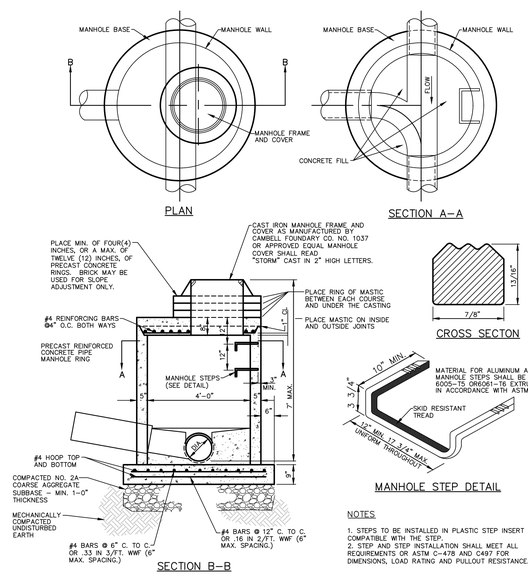
NOTE:
IF ANY REVISIONS TO THE SEEDING SPECIFICATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT THE CONSERVATION DISTRICT TO OBTAIN GUIDANCE ON ALTERNATIVE SEEDING SPECIFICATIONS.

REVEGETATE/REFOREST:
1. TREES SHALL BE NATIVE SPECIES. (MIN. 2" CAL., 6 FT. HEIGHT)
2. TREES SHALL BE ADEQUATELY PROTECTED DURING CONSTRUCTION.
3. TREES SHALL BE MAINTAINED FOR A MINIMUM OF 50 YEARS OR UNTIL REDEVELOPMENT OCCURS.
4. MAINTENANCE: INSPECT 4 TIMES ANNUALLY FOR THE FIRST 4 YEARS AND ONCE ANNUALLY EVERY YEAR THEREAFTER. REPLACE DEAD OR UNHEALTHY TREES WITHIN 6 MONTHS.
5. TREES SHALL BE PLANTED FROM APRIL 1 – JUNE 15 OR FROM AUGUST 15 – NOVEMBER 1.



STORM MANHOLE FRAME AND COVER
N.T.S.
(FOR DETAILED INFORMATION REFERENCE PennDOT RC–45m)

NOTES:
1. PROVIDE MANHOLE FRAMES AND COVERS MEETING THE REQUIREMENTS OF PUBLICATION 408 SPECIFICATIONS, SECTION 605. 2(B), DESIGN MANHOLE FRAME, COVER AND GRADE ADJUSTMENT RINGS FOR HS25 LIVE LOAD. IF MANHOLES ARE NOT IN OR ADJACENT TO ROADWAY, DESIGN FOR ALL POSSIBLE LIVE LOADS AS APPROVED BY THE DEPARTMENT.
2. PROVIDE MANHOLE FRAMES, COVERS AND GRADE ADJUSTMENT RISERS SUPPLIED BY A MANUFACTURER AS LISTED IN BULLETIN 15. FOR A BULLETIN 15 LISTING, SUBMIT A 22" X 36" REPRODUCIBLE SHOP DRAWING TO THE BUREAU OF CONSTRUCTION AND MATERIALS, MATERIALS AND TESTING DIVISION FOR REVIEW.
3. PROVIDE A GASKET SEALING SYSTEM (DOVETAIL GROOVE AND CONTINUOUS GASKET), AS INDICATED IN DETAIL A. TO PREVENT INFLOW THROUGH THE BEARING SURFACES, OF SURFACE RUNOFF WATER IN THE MANHOLE SYSTEM. WHEN SPECIFIED, PROVIDE 1/4" DIA. ONE PIECE SELF SEAL POLYISOPRENE ROUND GASKET. 40 DUROMETER GLUED IN PLACE. PROVIDE TWO (2) LIFT HOLES AT 180° TO FACILITATE COVER REMOVAL FOR SELF–SEALING MANHOLE COVER.
4. PROVIDE ONE LIFT HOLE TO FACILITATE COVER REMOVAL FOR NON–SEALING MANHOLE COVER.
5. FRAME AND GRADE ADJUSTMENT RISER TO HAVE A MINIMUM 1" BEARING SEAT FOR COVER.
6. LOCATE TOP OF FRAME OR ADJUSTMENT RISER 1/8" BELOW THE TOP OF ROADWAY SURFACE.
7. GRADE ADJUSTMENT RISERS
PROVIDE GRADE ADJUSTMENT RISERS MEETING THE REQUIREMENTS OF PUBLICATION 408 SPECIFICATIONS, SECTION 606, AND AS MODIFIED HEREIN:
   A. EACH ADJUSTMENT RISER TO BE CUSTOM FABRICATED FROM MEASUREMENTS PROVIDED WITH EACH ORDER.
   B. BAR STOCK AND RETAINER CLIP TO BE MANUFACTURED FROM U.S. MADE CARBON STEEL MEETING OR EXCEEDING THE MINIMUM REQUIREMENTS OF A.S.T.M. A–36.
   C. FULL CIRCUMFERENTIAL WELDS ARE REQUIRED ON BOTH TOP AND BOTTOM RINGS. THE INNER WELD TO BE BEVEL GROOVE WELD (FLUSH FINISH) FOR PROPER SEATING OF MANHOLE LID AND THE OUTER WELD TO BE FILLET WELD.
   D. MINIMUM WIDTH OF BOTTOM AND TOP BAR STOCK TO BE 1" AND 3/8", RESPECTIVELY.
   E. BOTTOM BAR STOCK FOR MULTI–PIECE ADJUSTMENT RISER TO BE TAPPED FOR 1/2" DIAMETER ADJUSTMENT BOLT.
   F. ADJUSTMENT RISER TO BE ADEQUATELY REINFORCED TO PREVENT BENDING.
   G. PROVIDE AN ADJUSTMENT RISER WHICH IS FLUSH WITH COVER AND DOES NOT ALLOW EXCESSIVE MOVEMENT. PROVIDE AN ADJUSTMENT RISER WHICH CONFORMS TO THE SHAPE OF THE ORIGINAL FRAME.
8. FRAME AND/OR PRECAST CONCRETE GRADE RINGS TO BE ATTACHED RIGIDLY TO TOP OF MANHOLE. USE 3–1/2" DIA. THREADED STUDS WITH HEX HEAD NUTS AND WASHERS, INSERTED THROUGH 5/8" DIA. HOLES THROUGH THE FRAME AND/OR RINGS. HOLES TO BE SPACED AT 120° AND 2" FROM OUTSIDE EDGE OF FRAME. EMBED STUDS 4" (MINIMUM) INTO MANHOLE. GROUT STUDS INTO MANHOLE.
9. THE BASE OF THE FRAME AND/OR PRECAST CONCRETE GRADE RINGS TO BE SET IN A BED OF CEMENT MORTAR.



NOTES
1. STEPS TO BE INSTALLED IN PLASTIC STEP INSERT COMPATIBLE WITH THE STEP.
2. STEP AND STEP INSTALLATION SHALL MEET ALL REQUIREMENTS OR ASTM C–478 AND C497 FOR DIMENSIONS, LOAD RATING AND PULLOUT RESISTANCE.

SHALLOW PRECAST CONCRETE PIPE MANHOLE
(SHOWN WITH PRECAST BASE)
REFER TO PENNDOT RC–39M, LATEST EDITION
N.T.S.

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

BARRY ISETT & Associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

DETAILS

PRELIMINARY PLANS

POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
SCALE: AS NOTED	CHK: CJW
DRAWN: JAZ	APPRD: CJW
JOB: 1064119.000	P MGR: CJW

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SHEET: 11 OF 16

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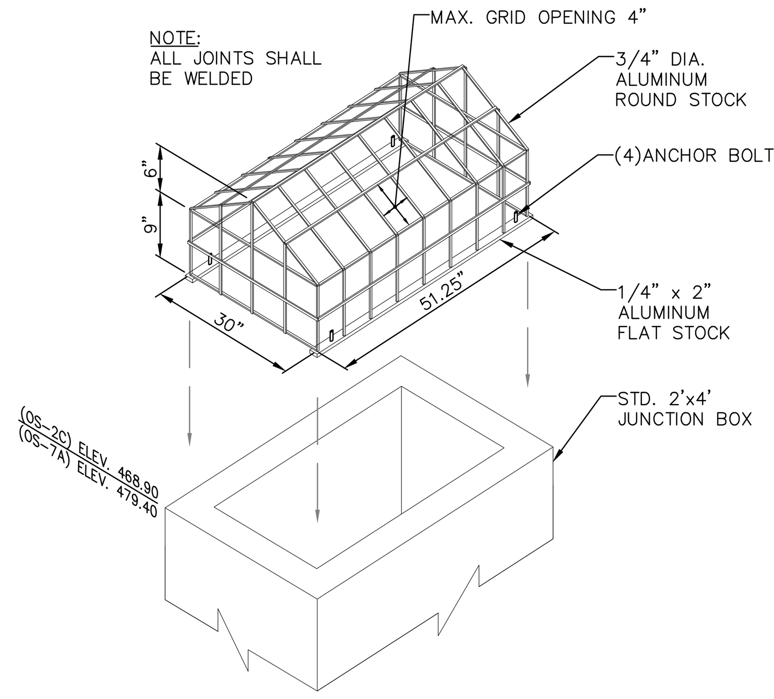
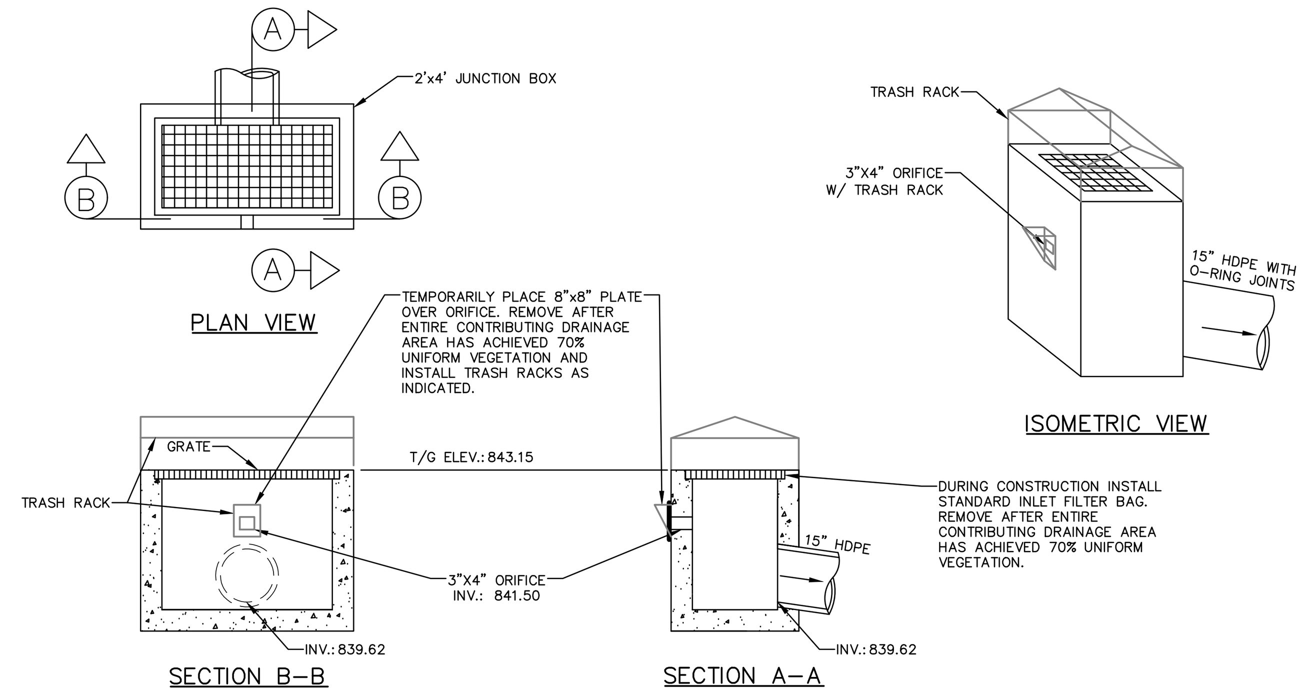


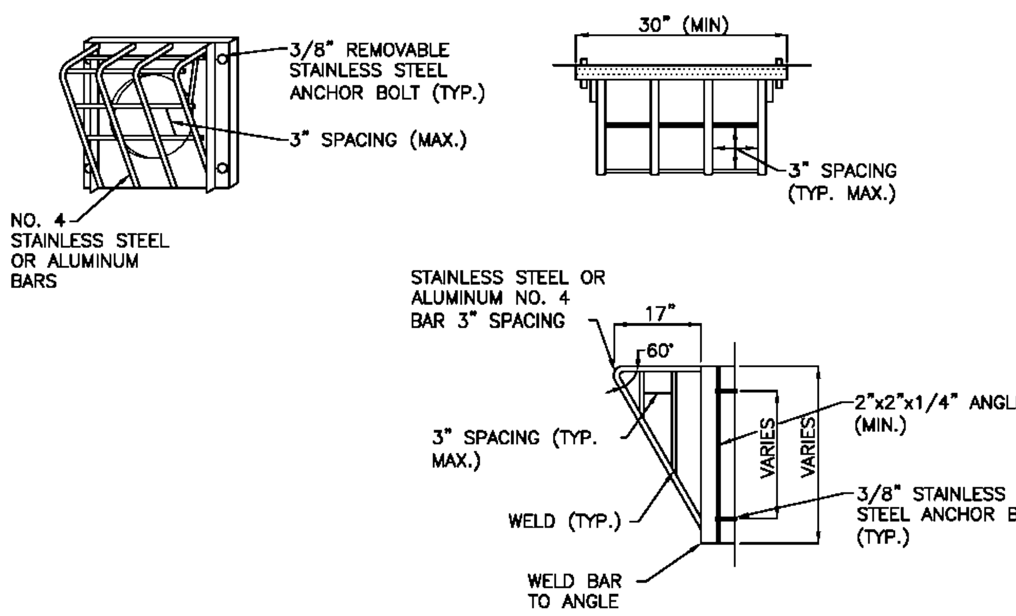
ANGLED TRASH RACK DETAIL RAIN GARDEN (A3A)

N.T.S.



RAIN GARDEN OUTLET STRUCTURE OS-A3A DETAIL (REFERENCE STANDARD PRECAST INLET DETAILS)

N.T.S.



TRASH RACK DETAIL A3A

N.T.S.

POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) STANDARD NOTES:

PERMIT TERMINATION

UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER § 102.22(A)(2) (RELATING TO PERMANENT STABILIZATION), AND INSTALLATION OF BMPS IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH §§ 102.4 AND 102.8 (RELATING TO EROSION AND SEDIMENT CONTROL REQUIREMENTS; AND PCSM REQUIREMENTS), THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.

THE NOTICE OF TERMINATION MUST INCLUDE:

(1) THE FACILITY NAME, ADDRESS AND LOCATION.
(2) THE OPERATOR NAME AND ADDRESS.
(3) THE PERMIT NUMBER.
(4) THE REASON FOR PERMIT TERMINATION.
(5) IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS IN ACCORDANCE WITH § 102.8(M) AND PROOF OF COMPLIANCE WITH § 102.8(M)(2).

PCSM REQUIREMENTS

PCSM REPORTING AND RECORDKEEPING. THE PCSM PLAN, INSPECTION REPORTS AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

LICENSED PROFESSIONAL OVERSIGHT OF CRITICAL STAGES.

A LICENSED PROFESSIONAL OR A DESIGNEE SHALL BE PRESENT ONSITE AND BE RESPONSIBLE DURING CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN. THE CRITICAL STAGES MAY INCLUDE THE INSTALLATION OF UNDERGROUND TREATMENT OR STORAGE BMPS, STRUCTURALLY ENGINEERED BMPS, OR OTHER BMPS AS DEEMED APPROPRIATE BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

FINAL CERTIFICATION.

THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS: "I (NAME) DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 PA.C.S.A. § 4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE IN CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN, ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION PRACTICES."

(1) THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN.
(2) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS.

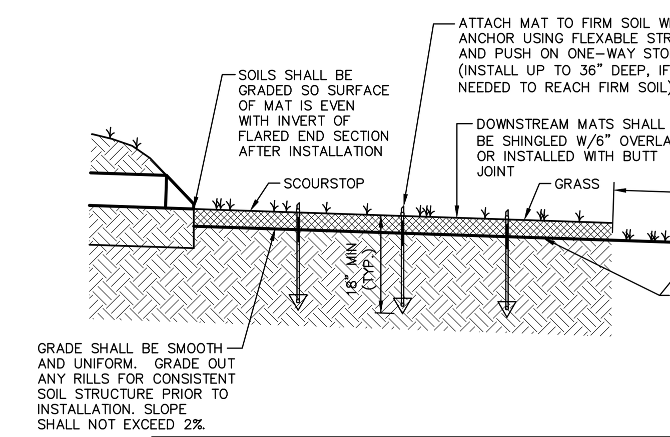
SCOURSTOP OUTLET PROTECTION

INSTALLATION:

- FINISH GRADING.
- GRADE A SMOOTH TRANSITION FROM OUTLET TO DISCHARGE AREA (ALLOW FOR SOIL COVER THICKNESS AND SCOURSTOP THICKNESS).
- MAX. 1" DROP FROM CULVERT OUTLET/CURB OPENING TO TOP OF SCOURSTOP MATS (NO WATERFALL IMPACT).
- SCOURSTOP MUST BE PLACED OVER SOIL COVER (SOD, TRM, OR GEOTEXTILE) - NOT OVER BARE GROUND, THEREFORE, INSTALL SOIL COVER FIRST.
- OR INSTALL TURF REINFORCEMENT MAT (TRM), AFTER SEED AND FERTILIZER, THEN WATER THOROUGHLY AFTER COMPLETING INSTALLATION.
- NON-VEGETATED: INSTALL GEOTEXTILE (MINIMUM 6 OZ. NON-WOVEN GEOTEXTILE FABRIC).
- AFTER PROPER GRADING AND INSTALLATION OF SELECTED SOIL COVER, PLACE SCOURSTOP MATS BEGINNING AT CULVERT OUTLET/CURB OPENING, OR AT TOE OF SLOPE, STREAM BANK, OR SPILLWAY.
- PLACE SCOURSTOP MAT(S) ADJACENT TO CULVERT/CURB AND ADJACENT TO OTHER SCOURSTOP MATS TO AVOID GAPS.
- DO NOT OVERLAP ADJACENT MATS UNLESS NECESSARY TO CONFORM TO CHANNEL GEOMETRY.
- IF DESIRED, SCOURSTOP MATS MAY BE CUT WITH CIRCULAR SAW OR HAND SAW.
- USE SCOURSTOP BULLET ANCHORS (MINIMUM OF 8 ANCHORS PER MAT) TO SECURE MATS ON TOP OF SOIL COVER AND TIGHTLY TO THE SOIL SURFACE.

SCOURSTOP MAINTENANCE

- MOWING OVER A VEGETATED SCOURSTOP SOLUTION IS ALLOWED - MINIMUM HEIGHT OF 4" RECOMMENDED.
- MOWING IS NOT RECOMMENDED WHERE SOFT, SATURATED SOILS EXIST.
- SCOURSTOP SURFACE MAY BE SLIPPERY WHEN WET - USE CAUTION.
- NEW CONSTRUCTION: SOIL MAY CONSOLIDATE, SO LOCK WASHERS MAY NEED TO BE RE-TIGHTENED AFTER SETTLING.



OUTLET	PIPE DIA.	SCOURSTOP WIDTH & LENGTH	EROSION CONTROL MATTING
OP-1 & OP-2	15"	4'X4'	SOD

NOTES:

1. SCOURSTOP SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS BY HANES GEO COMPONENTS OR EQUIVALENT.
2. EROSION CONTROL MATTING SHALL EXTEND 8 FT. BEYOND EDGE OF SCOURSTOP MAT ON ALL SIDES.

(OP) SCOURSTOP OUTLET PROTECTION

N.T.S.

PCSM LONG TERM OPERATIONS AND MAINTENANCE REQUIREMENTS

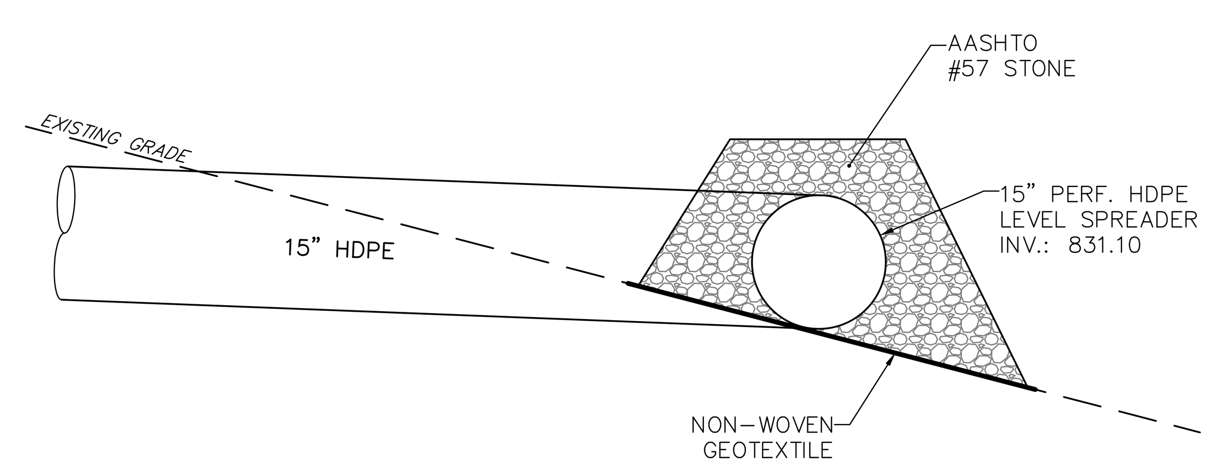
UNTIL THE PERMITTEE OR CO-PERMITTEE HAS RECEIVED WRITTEN APPROVAL OF A NOTICE OF TERMINATION, THE PERMITTEE OR CO-PERMITTEE WILL REMAIN RESPONSIBLE FOR COMPLIANCE WITH THE PERMIT TERMS AND CONDITIONS INCLUDING LONG-TERM OPERATION AND MAINTENANCE OF ALL PCSM BMPS ON THE PROJECT SITE AND IS RESPONSIBLE FOR VIOLATIONS OCCURRING ON THE PROJECT SITE. THE DEPARTMENT OR CONSERVATION DISTRICT WILL CONDUCT A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION WITHIN 30 DAYS.

THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPS UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPS.

FOR ANY PROPERTY CONTAINING A PCSM BMP, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM BMP AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY. THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSM BMP, PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM BMPS AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEES, AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION UNDER § 102.7(B)(5) (RELATING TO PERMIT TERMINATION

THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN AGREEMENT WITH ANOTHER PERSON INCLUDING A CONSERVATION DISTRICT, NONPROFIT ORGANIZATION, MUNICIPALITY, AUTHORITY, PRIVATE CORPORATION OR OTHER PERSON, TO TRANSFER THE RESPONSIBILITY FOR PCSM BMPS OR TO PERFORM LONG-TERM OPERATION AND MAINTENANCE AND PROVIDE NOTICE THEREOF TO THE DEPARTMENT.

A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP OR OTHERWISE FAILS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS LOCATED ON THE PROPERTY.



PERFORATED HDPE PIPE LEVEL SPREADER

N.T.S.

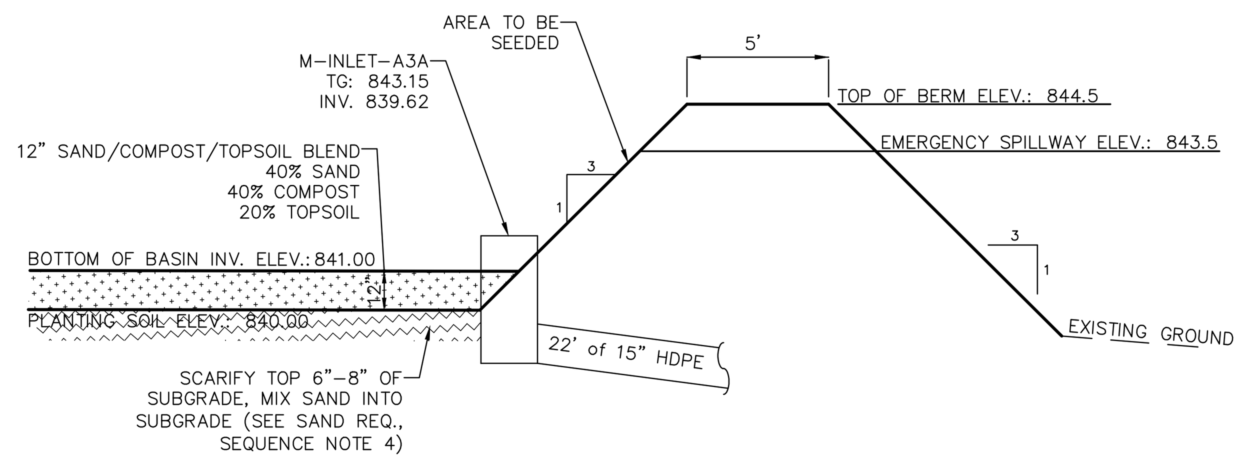
LEVEL SPREADER NOTES

CONSTRUCTION SEQUENCE:

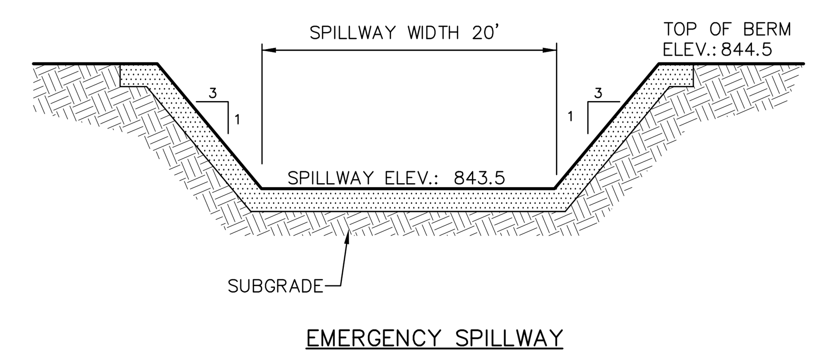
1. UPHILL DEVELOPMENT SHOULD BE STABILIZED BEFORE DIVERTING RUNOFF TO THE LEVEL SPREADER. IF THE LEVEL SPREADER IS USED AS AN EROSION AND SEDIMENTATION CONTROL MEASURE, IT MUST BE RECONFIGURED (FLUSH SYSTEM AND CLEAN OUT ALL SEDIMENT), TO ITS ORIGINAL STATE BEFORE USED AS A PERMANENT STORMWATER FEATURE.
2. ALL CONTRIBUTING STORMWATER ELEMENTS SHOULD BE INSTALLED.
3. IF NECESSARY, INSTALL EROSION CONTROL MATTING ALONG THE LENGTH OF THE LEVEL SPREADER AND TO A DISTANCE DOWNHILL, AS SPECIFIED BY THE MANUFACTURER/SUPPLIER.

OPERATION & MAINTENANCE

- CATCH BASINS AND INLETS DRAINING TO A LEVEL SPREADER SHOULD BE INSPECTED AND CLEANED ON AN ANNUAL BASIS.
- THE RECEIVING LAND AREA SHOULD BE IMMEDIATELY RESTORED TO DESIGN CONDITIONS AFTER ANY DISTURBANCE. VEGETATED AREAS SHOULD BE SEEDED AND BLANKETED.
- IT IS CRITICAL THAT EVEN SHEET FLOW CONDITIONS ARE SUSTAINED THROUGHOUT THE LIFE OF THE LEVEL SPREADER, AS THEIR EFFECTIVENESS CAN DETERIORATE DUE TO LACK OF MAINTENANCE, INADEQUATE DESIGN/LOCATION, AND POOR VEGETATIVE COVER.
  - O INSPECTION - THE AREA BELOW A LEVEL SPREADER SHOULD BE INSPECTED FOR CLOGGING, DENSITY OF VEGETATION, DAMAGE BY FOOT OR VEHICULAR TRAFFIC, EXCESSIVE ACCUMULATIONS, AND CHANNELIZATION. INSPECTIONS SHOULD BE MADE ON A QUARTERLY BASIS FOR THE FIRST TWO YEARS FOLLOWING INSTALLATION, AND THEN ON A SEMIANNUAL BASIS THEREAFTER. INSPECTIONS SHOULD ALSO BE MADE AFTER EVERY STORM EVENT GREATER THAN 1-INCH.
  - O REMOVAL - SEDIMENT AND DEBRIS SHOULD BE ROUTINELY REMOVED (BUT NEVER LESS THAN SEMIANNUALLY, OR UPON OBSERVATION, WHEN BUILDUP OCCURS IN THE CLEAN OUTS. REGRADING AND RESEEDING MAY BE NECESSARY IN THE AREAS BELOW THE LEVEL SPREADER. REGRADING MAY ALSO BE REQUIRED WHEN POOLS OF STANDING WATER ARE OBSERVED ALONG THE SLOPE. (IN NO CASE SHOULD STANDING WATER BE ALLOWED FOR LONGER THAN 72 HOURS.)
  - O VEGETATION - MAINTAINING A VIGOROUS VEGETATIVE COVER ON THE AREAS BELOW A LEVEL SPREADER IS CRITICAL FOR MAXIMIZING POLLUTANT REMOVAL EFFICIENCY AND EROSION PREVENTION. IF VEGETATIVE COVER IS NOT FULLY ESTABLISHED WITHIN THE DESIGNATED TIME, IT MAY NEED TO BE REPLACED WITH AN ALTERNATIVE SPECIES. (IT IS STANDARD PRACTICE TO CONTRACTUALLY REQUIRE THE CONTRACTOR TO REPLACE DEAD VEGETATION.) UNWANTED OR INVASIVE GROWTH SHOULD BE REMOVED ON AN ANNUAL BASIS. BIWEEKLY INSPECTIONS ARE RECOMMENDED FOR AT LEAST THE FIRST GROWING SEASON, OR UNTIL THE VEGETATION IS PERMANENTLY ESTABLISHED. ONCE THE VEGETATION IS ESTABLISHED, INSPECTIONS OF HEALTH, DIVERSITY, AND DENSITY SHOULD BE PERFORMED AT LEASE TWICE PER YEAR, DURING BOTH THE GROWING AND NON-GROWING SEASON. VEGETATIVE COVER SHOULD BE SUSTAINED AT 85% AND REPLACED IF DAMAGE GREATER THAN 50% IS OBSERVED.



NOTE:
THIS RAIN GARDEN REQUIRES 18" OF PLANTING SOIL, CONSISTING OF 20% TOPSOIL, 40% COMPOST AND 40% SAND. REFER TO PCD-2 FOR PROPOSED SEEDING.



EMERGENCY SPILLWAY

RAIN GARDEN

A RAIN GARDEN IS PROPOSED TO ACT AS A STORMWATER VOLUME AND QUALITY TREATMENT DEVICE. RAIN GARDENS TREAT STORMWATER BY POOLING WATER ON THE SURFACE AND ALLOWING FILTERING AND SETTLING OF SUSPENDED SOLIDS AND SEDIMENT AT THE MULCH LAYER, PRIOR TO ENTERING THE PLANT/SOIL/MICROBE COMPLEX MEDIA FOR INFILTRATION AND POLLUTANT REMOVAL.

TYPICAL RAIN GARDEN CONSTRUCTION SEQUENCE:

1. INSTALL TEMPORARY SEDIMENT CONTROL BMPS AS SHOWN ON THE PLANS.
2. STABILIZE GRADING WITHIN THE LIMIT OF DISTURBANCE EXCEPT WITHIN THE RAIN GARDEN AREA. RAIN GARDEN BED AREAS MAY BE USED AS TEMPORARY SEDIMENT TRAPS PROVIDED THAT THE PROPOSED FINISH ELEVATION OF THE BED IS 12 INCHES OR LOWER THAN THE BOTTOM OF THE SEDIMENT TRAP.
3. EXCAVATE RAIN GARDEN TO PROPOSED INVERT DEPTH AND SCARIFY THE EXISTING SOIL SURFACES. DO NOT COMPACT IN-SITU SOILS.
4. PLACE SAND ACROSS THE BOTTOM OF EACH RAIN GARDEN SO THAT IT MIXES INTO THE SCARIFIED AREAS.
   NOTE: SAND SHALL MEET THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 703. THE SIZE AND GRADATION OF THE SAND SHALL MEET BITUMINOUS CONCRETE SAND TYPE B# OR B#3 FROM A CERTIFIED STOCKPILE. THE SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH PTM #616 AND #100. PROVIDE SOIL SAMPLES TO ISETT FOR REVIEW IN ADVANCE OF DELIVERY TO SITE. PROVIDE SUPPLIER CERTIFICATION TO ISETT ON-SITE PERSONNEL THAT THE DELIVERED MATERIAL CONFORMS WITH THE REVIEWED SAMPLE.
5. BACKFILL RAIN GARDEN WITH AMENDED SOIL AS SHOWN ON PLANS AND SPECIFICATIONS. OVERFILLING IS RECOMMENDED TO ACCOUNT FOR SETTLEMENT. LIGHT HAND TAMPING IS ACCEPTABLE IF NECESSARY.
6. PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT.
7. COMPLETE FINAL GRADING TO ACHIEVE PROPOSED DESIGN ELEVATIONS, LEAVING SPACE FOR UPPER LAYER OF COMPOST, MULCH OR TOPSOIL AS SPECIFIED ON PLANS.
8. PLANT VEGETATION ACCORDING TO PLANTING PLAN.
9. MULCH AND INSTALL EROSION PROTECTION AT SURFACE FLOW ENTRANCES WHERE NECESSARY.

TYPICAL RAIN GARDEN MAINTENANCE ISSUES:

1. WHILE VEGETATION IS BEING ESTABLISHED, PRUNING AND WEEDING MAY BE REQUIRED.
2. DETRITUS MAY ALSO NEED TO BE REMOVED EVERY YEAR. PERENNIAL PLANTINGS MAY BE CUT DOWN AT THE END OF THE GROWING SEASON.
3. MULCH SHOULD BE RE-SPREAD WHEN EROSION IS EVIDENT AND BE REPLENISHED AS NEEDED. ONCE EVERY 2 TO 3 YEARS THE ENTIRE AREA MAY REQUIRE MULCH REPLACEMENT.
4. BIORETENTION AREAS SHOULD BE INSPECTED AT LEAST TWO TIMES PER YEAR FOR SEDIMENT BUILDUP, EROSION, VEGETATIVE CONDITIONS, ETC.
5. DURING PERIODS OF EXTENDED DROUGHT, BIORETENTION AREAS MAY REQUIRE WATERING.
6. TREES AND SHRUBS SHOULD BE INSPECTED TWICE PER YEAR TO EVALUATE HEALTH.

RAIN GARDEN DETAILS

N.T.S.

RAIN GARDEN STAGE STORAGE TABLE

STAGE (FT)	ELEVATION (FT)	CONTOUR AREA (SF)	INCREMENTAL STORAGE (CF)	TOTAL STORAGE (CF)
0	841	4,053	0	0
0.5	841.5	4,567	2,154	2,154
1	842	5,096	2,414	4,568
2	843	6,292	5,683	10,251
3	844	7,672	6,970	17,221
3.5	844.5	8,498	4,040	21,261

RAIN GARDEN SPECIFICATIONS

SUBGRADE PREPARATION

1. EXISTING SUB-GRADE IN BIORETENTION AREAS SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC.
2. INITIAL EXCAVATION CAN BE PERFORMED DURING ROUGH SITE GRADING BUT SHALL NOT BE CARRIED TO WITHIN ONE FEET OF THE FINAL BOTTOM ELEVATION. FINAL EXCAVATION SHOULD NOT TAKE PLACE UNTIL ALL DISTURBED AREAS IN THE DRAINAGE AREA HAVE BEEN STABILIZED.
3. WHERE EROSION OF SUB-GRADE HAS CAUSED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE PONDING IN THE GRADED BOTTOM, THIS MATERIAL SHALL BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE OR EQUIVALENT BY LIGHT TRACTOR.
4. BRING SUB-GRADE OF BIORETENTION AREA TO LINE, GRADE, AND ELEVATIONS INDICATED. FILL AND LIGHTLY REGRADE ANY AREAS DAMAGED BY EROSION, PONDING, OR TRAFFIC COMPACTION. ALL BIORETENTION AREAS SHALL BE LEVEL GRADE ON THE BOTTOM.
5. HALT EXCAVATION AND NOTIFY ENGINEER IMMEDIATELY IF EVIDENCE OF SINKHOLE ACTIVITY OR PINNACLES OF CARBONATE BEDROCK ARE ENCOUNTERED IN THE BIORETENTION AREA.

RAIN GARDEN INSTALLATION

1. UPON COMPLETION OF SUB-GRADE WORK, THE ENGINEER SHALL BE NOTIFIED AND SHALL INSPECT AT HIS/HER DISCRETION BEFORE PROCEEDING WITH BIORETENTION INSTALLATION.
2. FOR THE SUBSURFACE STORAGE/INFILTRATION BED INSTALLATION, AMENDED SOILS SHOULD BE PLACED ON THE BOTTOM TO THE SPECIFIED DEPTH.
3. PLANTING SOIL SHALL BE PLACED IMMEDIATELY AFTER APPROVAL OF SUB-GRADE PREPARATION/BED INSTALLATION. ANY ACCUMULATION OF DEBRIS OR SEDIMENT THAT TAKES PLACE AFTER APPROVAL OF SUB-GRADE SHALL BE REMOVED PRIOR TO INSTALLATION OF PLANTING SOIL AT NO EXTRA COST TO THE OWNER.
4. INSTALL PLANTING SOIL (EXCEEDING ALL CRITERIA) IN 18-INCH MAXIMUM LIFTS AND LIGHTLY COMPACT (TAMP WITH BACKHOE BUCKET OR BY HAND). KEEP EQUIPMENT MOVEMENT OVER PLANTING SOIL TO A MINIMUM - **DO NOT OVER COMPACT**. INSTALL PLANTING SOIL TO GRADES INDICATED ON THE DRAWINGS.
5. PLANT TREES AND SHRUBS ACCORDING TO SUPPLIER'S RECOMMENDATIONS AND ONLY FROM MID-MARCH THROUGH THE END OF JUNE OR FROM MID-SEPTEMBER THROUGH MID- NOVEMBER.
6. INSTALL 2-3" SHREDDED HARDWOOD MULCH (MINIMUM AGE 6 MONTHS) OR COMPOST MULCH EVENLY AS SHOWN ON PLANS. DO NOT APPLY MULCH IN AREAS WHERE GROUND COVER IS TO BE GRASS OR WHERE COVER WILL BE ESTABLISHED BY SEEDING.
7. PROTECT RAIN GARDENS FROM SEDIMENT AT ALL TIMES DURING CONSTRUCTION. HAY BALES, DIVERSION BERMS AND/OR OTHER APPROPRIATE MEASURES SHALL BE USED AT THE TOE OF SLOPES THAT ARE ADJACENT TO RAIN GARDENS TO PREVENT SEDIMENT FROM WASHING INTO THESE AREAS DURING SITE DEVELOPMENT.
8. WHEN THE SITE IS FULLY VEGETATED AND THE SOIL MANTLE STABILIZED THE PLAN DESIGNER SHALL BE NOTIFIED AND SHALL INSPECT THE RAIN GARDEN DRAINAGE AREA AT HIS/HER DISCRETION BEFORE THE AREA IS BROUGHT ONLINE AND SEDIMENT CONTROL DEVICES REMOVED.
9. WATER VEGETATION AT THE END OF EACH DAY FOR TWO WEEKS AFTER PLANTING IS COMPLETED.

CLEAN FILL NOTES:

1. IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH (GENERAL CONTRACTOR).
2. 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).
3. CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".
4. ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS.
5. ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR 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'S POLICY "MANAGEMENT OF FILL".
6. FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.PACODE.COM.

RECYCLING OR DISPOSAL OF MATERIALS:

CONSTRUCTION WASTES FROM LAND DISTURBANCE AND DEVELOPMENT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS SUITABLE FOR SUCH WASTES IN ACCORDANCE WITH PA DEP REGULATIONS. EXCESS SOIL/ROCK SHALL BE UTILIZED ON SITE TO IMPROVE FINAL GRADING OF LOW AREA LOTS. THESE WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL.

THE OPERATOR SHALL ASSURE THAT AN E&S CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE GOVERNING CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL/ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.

RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THIS PROJECT SITE WILL BE UNDERTAKEN IN ACCORDANCE WITH PA DEP RULES AND REGULATIONS.

SEDIMENT REMOVED FROM ESPCP CONTROLS AND FACILITIES SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED OR PLACED IN TOPSOIL STOCKPILES.

ANTICIPATED CONSTRUCTION WASTES INCLUDE, BUT MAY NOT BE LIMITED TO, THE FOLLOWING:

- SEDIMENT
- TRASH/DEBRIS
- VEGETATION CLIPPINGS AS MAY RESULT FROM MAINTENANCE
- PACKAGING MATERIAL
- FORMWORK ASSOCIATED WITH CONCRETE FOUNDATIONS.

PRELIMINARY PLANS

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL CHRISTOPHER JEFFREY WILLIAMS ENGINEER PE081432

BARRY ISETT & associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
SCALE:	CHK: CJW
DRAWN: JAZ	APPRD: CJW
JOB: 1064119.000	P MGR: CJW

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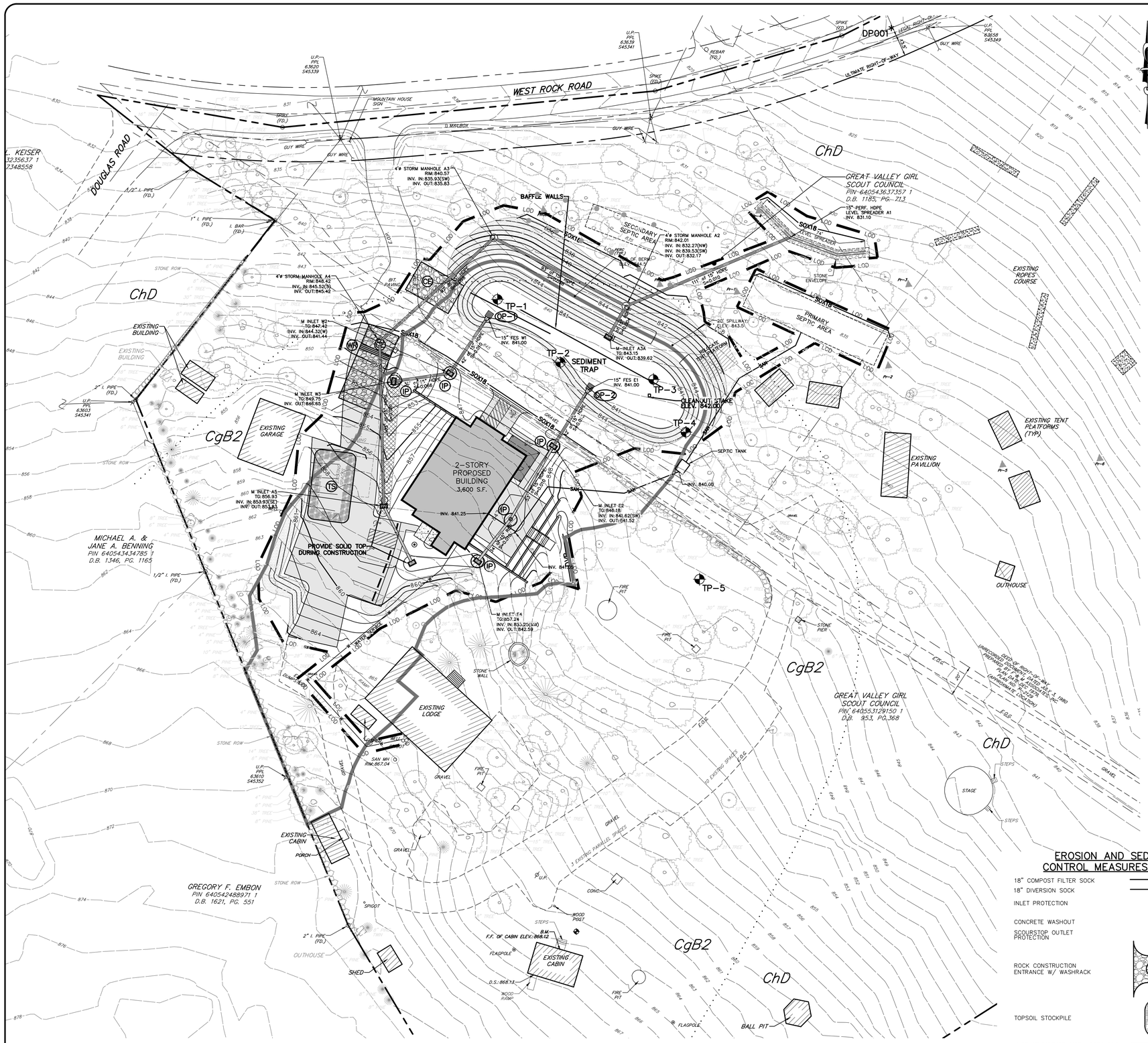

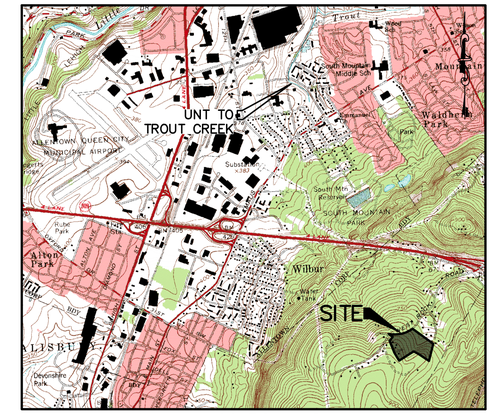

LOCATION MAP

SCALE: 1"=2000'

PLAN PREPARER:
CODY CALLAHAN
CCALLAHAN@BARRYISETT.COM
BARRY ISETT & ASSOCIATES, INC.
85 SOUTH RT. 100
ALLENTOWN, PA 18106
(610)-398-0904

TOPSOIL SHALL BE REPLACED ACROSS LAWN AREAS AT A MINIMUM THICKNESS OF 4"

NPDES BOUNDARY/LIMIT OF DISTURBANCE AREA: 1.26 ACRES

RECEIVING WATERS: UNT TO THE TROUT CREEK HQ-CWF, MF

SLOPES 3:1 AND GREATER SHALL BE STABILIZED WITH NAG S75

SEDIMENT REMOVED FROM BMP SHALL BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZE OR PLACED IN TOPSOIL STOCKPILES

REFER TO PLAN SHEETS ESD-1 FOR EROSION & SEDIMENT CONTROL NOTES & DETAILS

EROSION AND SEDIMENT CONTROL MEASURES LEGEND

- 18" COMPOST FILTER SOCK — SDX18
- 18" DIVERSION SOCK — DVB
- INLET PROTECTION — IP
- CONCRETE WASHOUT — WO
- SCOURSTOP OUTLET PROTECTION — OP
- ROCK CONSTRUCTION ENTRANCE W/ WASHRACK — CE, WR
- TOPSOIL STOCKPILE — TS
- LIMIT OF DISTURBANCE/NPDES BND — LOD
- SEDIMENT BASIN DRAINAGE BOUNDARY
- SLOPE EROSION CONTROL MATTING
- NAG S75 SWALE MATTING

LEGEND

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
LOT LINE		
LEGAL RIGHT-OF-WAY		
ULTIMATE RIGHT-OF-WAY		
BUILDING SETBACK		
EASEMENT		
CURBING	DEPRESSED CURB	
BUILDING	EXIST. BUILDING	PROP. BUILDING
PAVEMENT		
CONCRETE WALKWAY		
SOIL BOUNDARY		
UTILITY POLE	U.P.	
OVERHEAD WIRES	O/A	
WATER MAIN & VALVE	W.V. W	W
FIRE HYDRANT	F.H.	
GAS MAIN & VALVE	G.V. G	
SANITARY LINE, MANHOLE, & CLEANOUT	EXIST. MH SAN C.O.	SAN C.O.
STORM LINE, MANHOLE, & INLET	EXIST. MH EXIST. INLET	PROP. MH PROP. INLET
CHAIN-LINK FENCE	CHAIN-LINK FENCE	
POST/SPLIT RAIL FENCE	POST/SPLIT RAIL FENCE	
WOOD FENCE	WOOD FENCE	
SIGN		
DECIDUOUS TREE	6" MAPLE	1 AR
EVERGREEN TREE	6" PINE	1 PS
TREE ROW		
CONTOUR	590	590
SPOT ELEVATION	×590.53	×590.53
EDGE OF PAVEMENT	E.O.P.	E.O.P.
EDGE OF GRAVEL	E.O.G.	E.O.G.
BITUMINOUS	BIT.	BIT.
TYPICAL	(TYP.)	(TYP.)
FINISHED FLOOR	F.F.	F.F.
DOOR SILL	D.S.	D.S.
TO BE REMOVED		(T.B.R.)

NOTE:
VERTICAL TEXT INDICATES PROPOSED FEATURES
SLANTED TEXT INDICATES EXISTING FEATURES

0 30' 60' 90'
SCALE: 1"=30'

PRELIMINARY PLANS

EROSION & SEDIMENT CONTROL PLAN
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

REVISIONS	DATE	BY
1 TOWNSHIP COMMENTS	9/18/2020	JAZ

CHRISTOPHER JEFFREY WILLIAMS — PROFESSIONAL ENGINEER — COMMONWEALTH OF PENNSYLVANIA

610.398.0904
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85 SOUTH ROUTE 100
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DATE: 8/26/2020	DSGN: CJW
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SHEET: 13 OF 16

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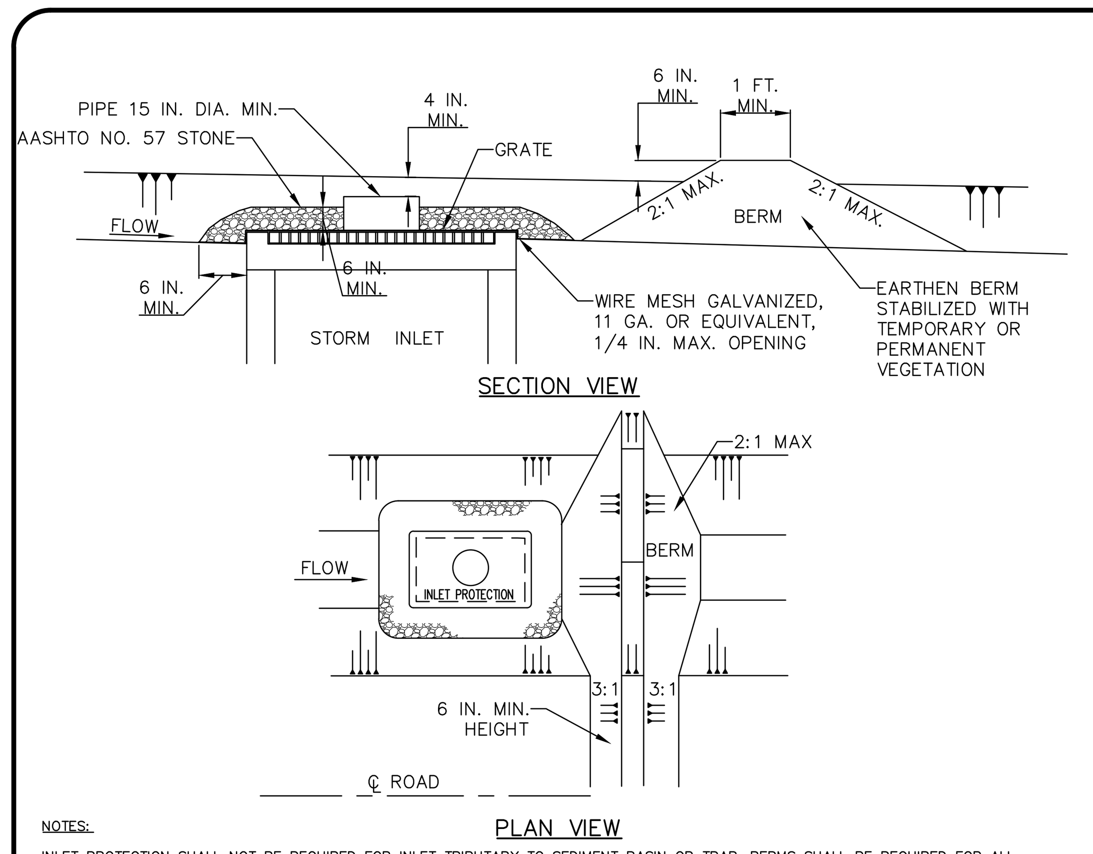


NOTES:

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT A LOW POINT.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.

STONE INLET PROTECTION AND BERM FOR A TYPE M INLET CAN BE USED IN ONE ACRE MAXIMUM DRAINAGE AREA WITH 15 IN. OVERFLOW PIPE AND 4 IN. HEAD. A PERFORATED PLATE WELDED TO A METAL RISER MAY NOT BE SUBSTITUTED FOR THE WIRE MESH. A SLOTTED PLATE WELDED TO THE RISER MAY BE USED IN CONJUNCTION WITH THE WIRE MESH IF CALCULATIONS ARE PROVIDED TO SHOW SUFFICIENT CAPACITY OF THE INLET TO ACCEPT THE PEAK RUNOFF FOR A 2-YEAR STORM EVENT FROM THE TRIBUTARY DRAINAGE AREA. TOP OF PIPE SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADWAY IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC. EARTHEN BERM SHALL BE ROLLED.

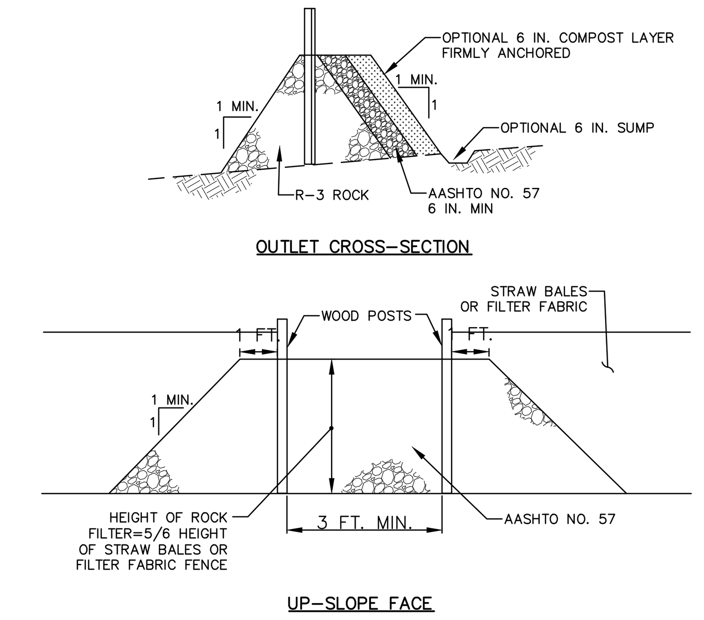
SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 IN. THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-20
STONE INLET PROTECTION AND BERM - TYPE M INLET

NOT TO SCALE



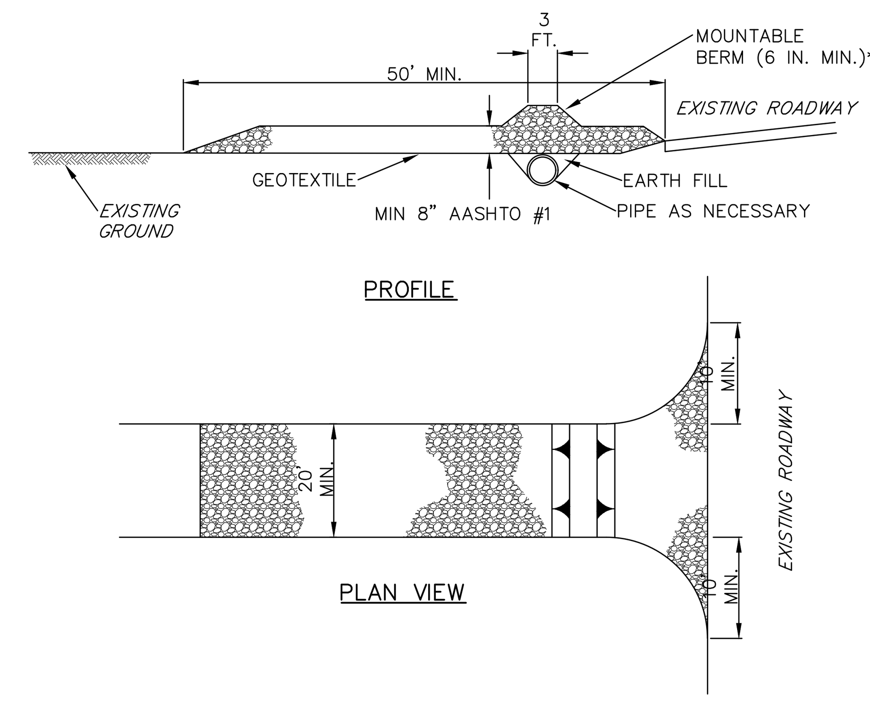
NOTES:

A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HQ AND EV WATERSHEDS.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

STANDARD CONSTRUCTION DETAIL #4-6
ROCK FILTER OUTLET

NOT TO SCALE



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

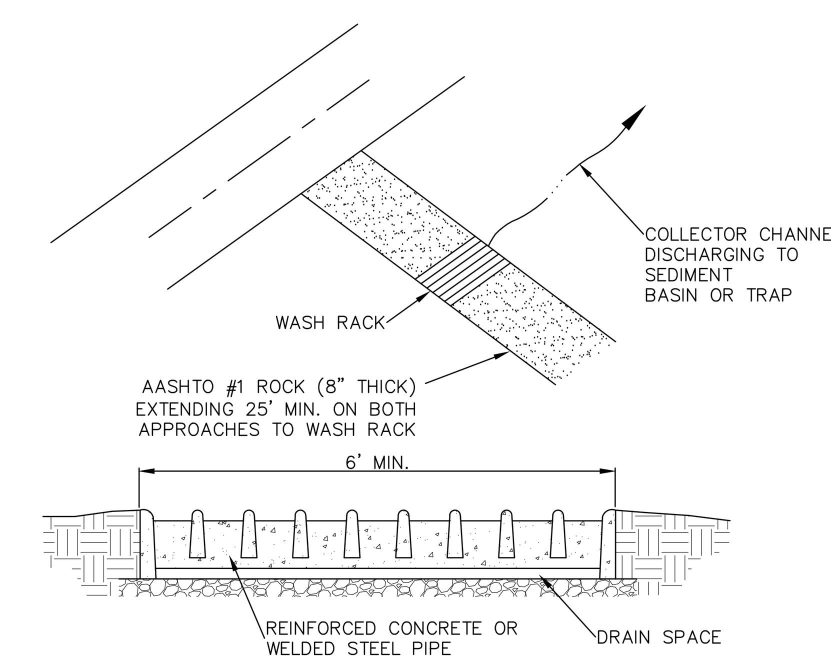
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1
ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



NOTES:

WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS.

WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.

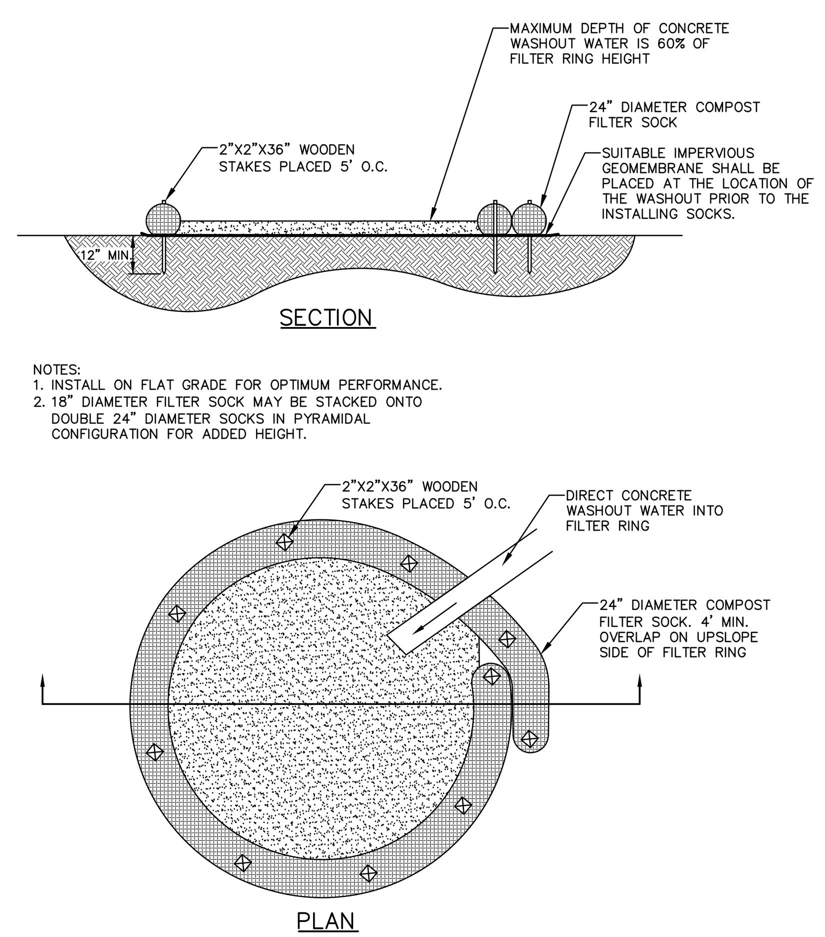
MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-2
ROCK CONSTRUCTION ACCESS WITH WASH RACK

NOT TO SCALE

STANDARD EROSION & SEDIMENT CONTROL PLAN NOTES

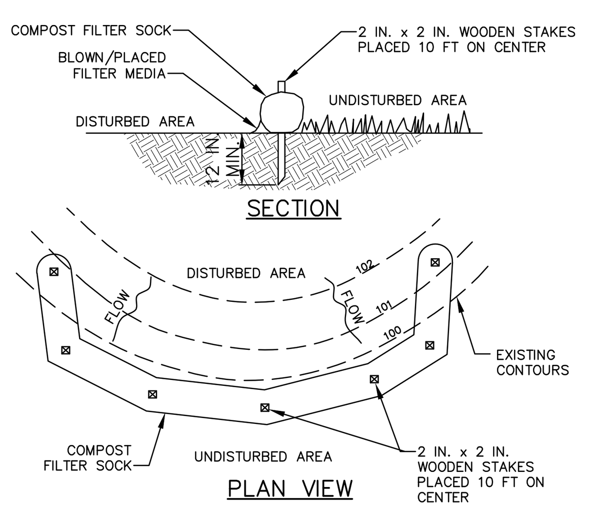
1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL 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.
2. 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 AN ON-SITE PRECONSTRUCTION MEETING.
3. 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.
4. 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.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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 UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THIS SITE.
11. 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.
12. 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 BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE SITE ONTO ADJACENT ROADWAYS. VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCE.
15. 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. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO LEHIGH COUNTY CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. A LOG SHOWING DATES 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.
17. 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 SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH 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.
20. 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.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED 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.
27. 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 OTHER 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.
28. 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 FAILURE DUE TO SLUMPING, SLIDING, OR MOTHER MOVEMENTS.
29. EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS. 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.
30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
31. 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 DISTURBED 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.
32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
33. 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 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.
34. IN THE EVENT OF SINKHOLE DISCOVERY A PROFESSIONAL GEOLOGIST OR ENGINEER WILL BE CONTACTED CONCERNING MITIGATION. ADDITIONALLY, THE LEHIGH COUNTY CONSERVATION DISTRICT WILL BE MADE AWARE OF THE SINKHOLE DISCOVERY IMMEDIATELY.
35. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
36. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
37. THE E&S CONTROL PLAN MAPPING MUST DISPLAY A PA ONE CALL SYSTEM INCORPORATED SYMBOL INCLUDING THE SITE IDENTIFICATION NUMBER. (THIS IS A NUMBERED SYMBOL NOT A NOTE.)
38. AT STREAM CROSSINGS, 50' BUFFER AREAS SHOULD BE MAINTAINED. ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCAVATION, AND EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITIES SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE ACCOMPLISHED OUTSIDE OF BUFFERS.
39. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN
40. 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.
41. 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.
42. 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 8" LAYERED LIFTS AT 95% DENSITY.



NOTES:
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

COMPOST SOCK WASHOUT DETAIL #3-18

NOT TO SCALE



NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

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

COMPOST FILTER 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.

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

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.

TABLE 4.1
Compost Sock Fabric Minimum Specifications

Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
Mesh opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability% Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Miinimum Functional Longevity	6 months	9 months	6 months	1 year	2 years
Two-ply systems					
Inner Containment Netting			HDPE biaxial net; Continuously wound; Fusion-welded junctures; 3/4"X3/4" Max. aperture sixe		
Outer Filtration Mesh			Composite Polypropylene Fabric (Woven layer and non-woven fleece mechanically fused via needle punch); 3/16" Max. aperture size		
Sock Fabrics composed of burlap may be used on projects lasting 6 months or less.					

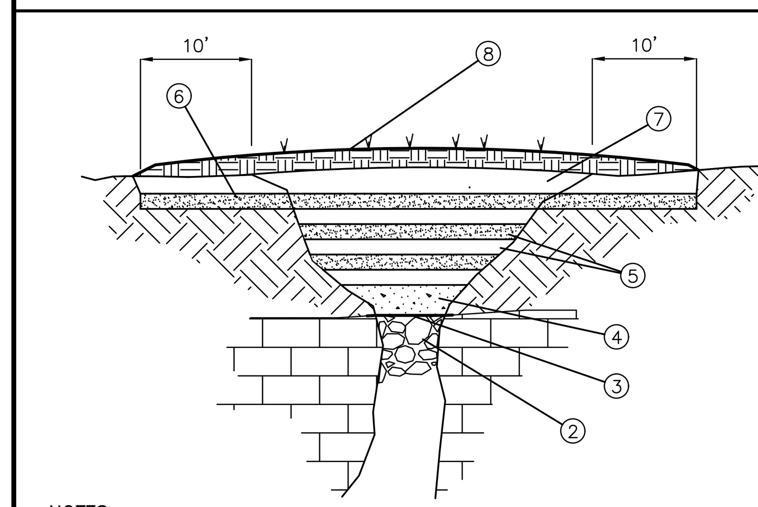
TABLE 4.2
Compost Standards

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%-50% pass through 3/8" sieve
Soluble Salt Conentration	5.0 dS/m (mmhos/cm) Maximum

NOTES:
1. THE PHYSICAL PARAMETERS OF THE COMPOST SHOULD COMPLY WITH THE STANDARDS IN TABLE 4.2. THE STANDARDS CONTAINED IN THE PENNDOT PUBLICATION 408 ARE AN ACCEPTABLE ALTERNATIVE.
2. COMPOST SHALL BE TESTED AND TEST RESULTS SHALL BE PROVIDED TO THE COUNTY CONSERVATION DISTRICT FOR REVIEW PRIOR TO UTILIZING COMPOST AT THE SITE.

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK

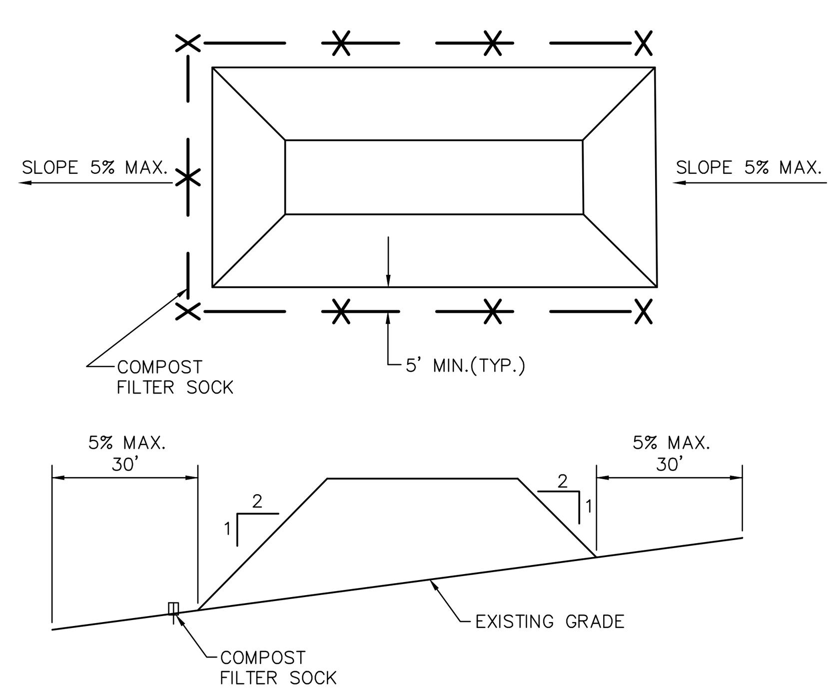
NOT TO SCALE



NOTES:
1. OVER EXCAVATE SINKHOLE THROAT TO REMOVE ALL SOIL AND LOOSE ROCK.
2. PLACE ROCK(S) TO PLUG SINKHOLE THROAT. ROCKS SHALL BE SIZED SO THEY CANNOT GO THROUGH THE THROAT FILL SMALL VOIDS WITH SMALLER ROCK TO LEVEL THE PLUG.
3. PLACE A THIN LIFT OF BENTONITE CLAY TO LEVEL THE ROCK PLUG. PLACE GEOTEXTILE DRAINAGE FABRIC OVER THE DISTURBED AREA, EMBEDDING 6" ON ALL EDGES. FABRIC TO HAVE TENSILE STRENGTH OF 90 LBS. AND AN EQUIVALENT OPENING SIZE OF SIEVE #200 MINIMUM.
4. LARGER OPENINGS MAY REQUIRE A CONCRETE PLUG. 18"-24" THICK.
5. PLACE BENTONITE CLAY/SOIL (1 TO 2 LBS./S.F., 8" LIFT, 95% MOD. PROCTOR). PLACE COMPACTED FINE-GRAINED NATIVE CLAY FILL (8" LIFTS, 95% MOD. PROCTOR) EVERY OTHER LIFT TO 12" BELOW FINAL GRADE.
6. INSTALL BENTONITE CLAY/SOIL CAP 10' BEYOND THE EXCAVATION AS SHOWN.
7. GRADE NATIVE CLAY TO DRAIN AWAY FROM THE AREA.
8. PLACE 4" OF TOPSOIL, RESEED OR SOD TO STABILIZE.
9. ALL STABILIZATION WORK SHOULD BE DONE UNDER SUPERVISION OF A GEOLOGIST OR ENGINEER FAMILIAR WITH SITE AND FOUNDATION CONDITIONS.

SINKHOLE MITIGATION DETAIL

N.T.S.



NOTES:
1. PLACE STOCKPILES AT LOCATIONS SHOWN ON PLAN.
2. STOCKPILE TO BE SEEDED WITH A TEMPORARY SEED MIXTURE IF PERIOD OF EXPOSURE IS EXPECTED TO EXCEED 20 DAYS.
3. SIDE SLOPES SHALL NOT EXCEED 1' VERTICAL TO 2' HORIZONTAL.
4. MAXIMUM TOPSOIL STOCKPILE HEIGHT NOT TO EXCEED 35'.

(TS) TOPSOIL STOCKPILE

N.T.S.

Job #: 1064119.000 — **SOILS LIMITATIONS & RESOLUTIONS SHEET** — Date: 8/26/2020

Project Name: Filmtech - Mitchell Avenue Site

LOCATION: City of Allentown — COUNTY: Lehigh

SOIL	CHARACTERISTICS		LIMITATIONS	RESOLUTIONS	COMMENTS
CgB2 ChD	TOPSOIL	POOR	VEGETATIVE STABILIZATION EMBANKMENTS HIGH ACIDITY LOW FERTILITY EXCESSIVE DRYNESS EXCESSIVE WETNESS	SOIL TESTS ADJUST SOILS IMPLEMENTS AS NEEDED	SEE SEEDING WORKSHEETS AND DETAIL SHEET NOTES
CgB2 ChD	ERODIBILITY	K > 0.36	DIVERSIONS - WATERWAYS TERRACES GRASSES WATERWAYS SLOPES LANDSCAPING	TEMPORARY CHANNEL LINING GRASSES WITH GREATER RETARDANCE PERMANENT LININGS REVISE CHANNEL GEOMETRY (SLOPE, WIDTH) SLOPE PROTECTION LIMIT TIME OF EXPOSURE	SEE CHANNEL WORKSHEET CALCULATIONS SEE DETAIL SHEET SEE DETAIL SHEET SEE CONSTRUCTION SCHEDULE

Job #: 1064119.00 — **SOILS INFORMATION FACT SHEET** — Date: 8/26/2020

SOIL							SUITABILITY				SOIL CONDITIONS FOR CONSTRUCTION			
SYMBOL NAME	TEXTURE	SLOPE %	HYDRO. SOIL GROUP	HYDRIC (INCLUS-IONS)	HYDRIC COMPON-ENT	ERODIBILITY K	DEPTH OF WATER TABLE (Table 4)	DEPTH TO BEDROCK (FT) (Table 4)	WINTER GRADING YES/NO (Table 5)	FROST HEAVING LOW/HIGH Table 5	WATERWAYS (Table 5)	BUILDING SITE (Table 5)	ROADFILL (Table 5)	TOPSOIL (Table 5)
CgB2 Chester	Gravelly silt loam moderately eroded	3 - 8%	B				3+	4- 20	Good	Low	___	___	Good	Fair
ChD Chester	Very stony silt loam	8 - 25%	B				3+	4- 20	Good	Low	___	___	Good	Fair

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — CHRISTOPHER JEFFREY WILLIAMS — ENGINEER PE081432

BARRY ISETT & associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
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85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

PRELIMINARY PLANS

EROSION & SEDIMENT CONTROL DETAILS

GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
SCALE:	CHK: CJW
DRAWN: JAZ	APPRD: CJW
JOB: 1064119.000	P MGR: CJW

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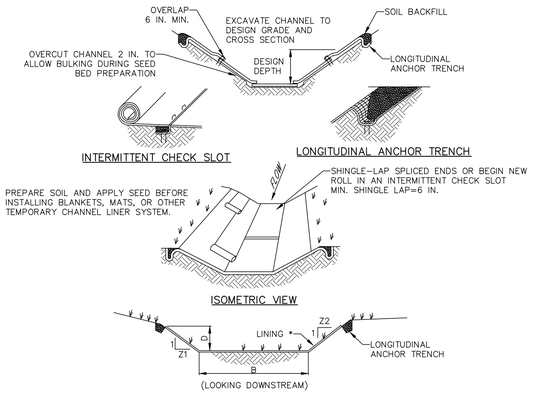


CHANNEL CROSS-SECTION

* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

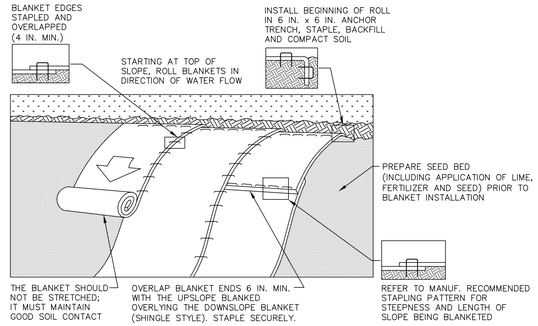
CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING *
1	ALL	0.5	1	6	3	3	NAG S75
2	ALL	5.0	1	19	11	3	NAG S75

NOTES:
ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION.
SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

STANDARD CONSTRUCTION DETAIL #6-1
VEGETATED CHANNEL
NOT TO SCALE



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 TOP OF SLOPE.

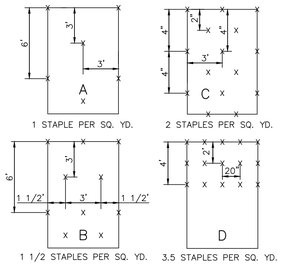
SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

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.

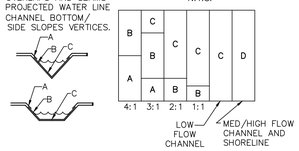
BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

STANDARD CONSTRUCTION DETAIL #11-1
EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE

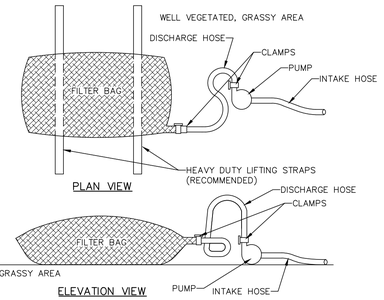


CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/ SIDE SLOPE'S VERTICES.

INSTALLATION GUIDE
N.T.S.



GENERAL STAPLE PATTERN GUIDE AND RECOMMENDATIONS
FOR OPTIMUM RESULTS, THESE RECOMMENDED STAPLE PATTERN GUIDES MUST BE FOLLOWED



NOTES:

LOW 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 SHALL 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-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

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

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.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

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.

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

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

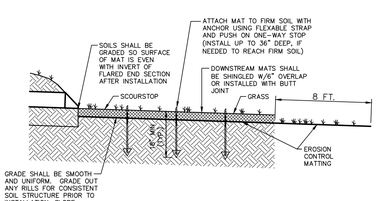
STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG
NOT TO SCALE

SCOURSTOP OUTLET PROTECTION

INSTALLATION:
- FINISH GRADING.
- GRADE A SMOOTH TRANSITION FROM OUTLET TO DISCHARGE AREA (ALLOW FOR SOIL COVER THICKNESS AND SCOURSTOP THICKNESS).
- MAX. 1' DROP FROM CULVERT OUTLET/CURB OPENING TO TOP OF SCOURSTOP MATS (NO WATERFALL IMPACT).
- SCOURSTOP MUST BE PLACED OVER SOIL COVER (SOD, TRM, OR GEOTEXTILE) – NOT OVER BARE GROUND, THEREFORE, INSTALL SOIL COVER FIRST.
- OR INSTALL TURF REINFORCEMENT MAT (TRM), AFTER SEED AND FERTILIZER, THEN WATER THOROUGHLY AFTER COMPLETING INSTALLATION.
- NON-VEGETATED: INSTALL GEOTEXTILE (MINIMUM 6 OZ. NON-WOVEN GEOTEXTILE FABRIC).
- AFTER PROPER GRADING AND INSTALLATION OF SELECTED SOIL COVER, PLACE SCOURSTOP MATS BEGINNING AT CULVERT OUTLET/CURB OPENING, OR AT TOE OF SLOPE, STREAM BANK, OR SPILLWAY.
- PLACE SCOURSTOP MAT(S) ADJACENT TO CULVERT/CURB AND ADJACENT TO OTHER SCOURSTOP MATS TO AVOID GAPS.
- DO NOT OVERLAP ADJACENT MATS UNLESS NECESSARY TO CONFORM TO CHANNEL GEOMETRY.
- IF DESIRED, SCOURSTOP MATS MAY BE CUT WITH CIRCULAR SAW OR HAND SAW.
- USE SCOURSTOP BULLET ANCHORS (MINIMUM OF 8 ANCHORS PER MAT) TO SECURE MATS ON TOP OF SOIL COVER AND TIGHTLY TO THE SOIL SURFACE.

SCOURSTOP MAINTENANCE

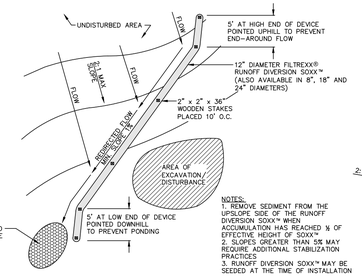
- MOWING OVER A VEGETATED SCOURSTOP SOLUTION IS ALLOWED – MINIMUM HEIGHT OF 4" RECOMMENDED.
- MOWING IS NOT RECOMMENDED WHERE SOFT, SATURATED SOILS EXIST.
- SCOURSTOP SURFACE MAY BE SLIPPERY WHEN WET – USE CAUTION.
- NEW CONSTRUCTION: SOIL MAY CONSOLIDATE, SO LOCK WASHERS MAY NEED TO BE RE-TIGHTENED AFTER SETTLING.



OUTLET	PIPE DIA.	SCOURSTOP WIDTH & LENGTH	EROSION CONTROL MATTING
OP-1 & OP-2	15"	4'X4'	SOD

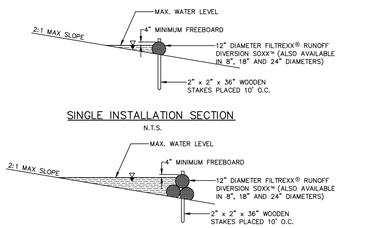
NOTES:
1. SCOURSTOP SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS BY HANES GEO COMPONENTS OR EQUIVALENT.
2. EROSION CONTROL MATTING SHALL EXTEND 8 FT. BEYOND EDGE OF SCOURSTOP MAT ON ALL SIDES.

OP SCOURSTOP OUTLET PROTECTION
N.T.S.



NOTES:
1. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF THE RUNOFF DIVERSION SOXX™ WHEN ACCUMULATION HAS REACHED ½ OF EFFECTIVE HEIGHT OF SOXX™
2. SLOPES GREATER THAN 5% MAY REQUIRE ADDITIONAL STABILIZATION PRACTICES
3. RUNOFF DIVERSION SOXX™ MAY BE SEEDED AT THE TIME OF INSTALLATION

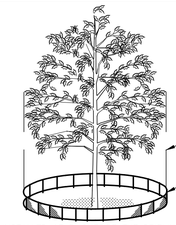
FILTREXX® RUNOFF DIVERSION SOXX™ PLAN
N.T.S.



SINGLE INSTALLATION SECTION
N.T.S.

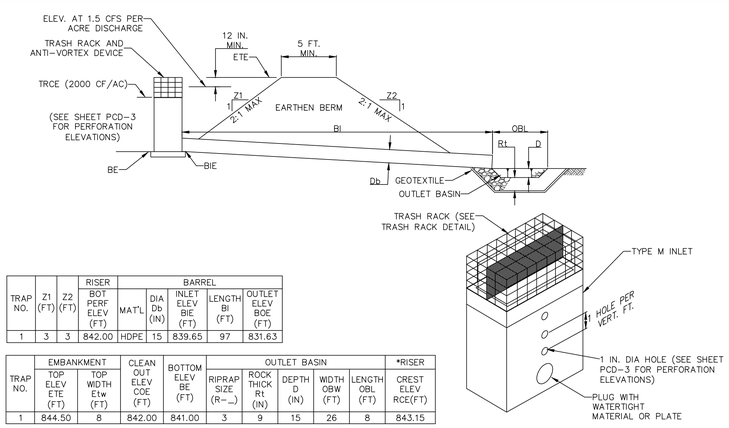
PYRAMID INSTALLATION SECTION
N.T.S.

FILTREXX® RUNOFF DIVERSION SOXX™ PLAN
N.T.S.



NOTES:
1. FENCING SHALL BE INSTALLED AT 5' OUTSIDE THE DRIPLINE OR 20' FROM THE TRUNK, WHICHEVER IS GREATER.
2. BOARDS SHALL NOT BE NAILED TO TREES DURING CONSTRUCTION.
3. FEEDER ROOTS SHALL NOT BE CUT IN AREA INSIDE THE DRIP LINE.
4. THE CONTRACTOR SHALL NOT ENCROACH ONTO AREAS DELINEATED AS TREE PROTECTION. THE STORAGE OF EQUIPMENT OR MATERIALS IN THIS AREA IS STRICTLY FORBIDDEN. THE SILT FENCE ERECTED AT THE TREE PROTECTION LINE SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS AND SHALL NOT BE CROSSED.
5. REFER TO PLAN SHEETS FOR LOCATION OF WOODS AND TREES TO REMAIN. ALL TREES TO REMAIN WHICH ARE ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED IN ACCORDANCE WITH THIS DETAIL.
6. NO CLEARING, EARTHMOVING, OR CONSTRUCTION SHALL COMMENCE PRIOR TO INSTALLATION OF TREE PROTECTION FENCES AROUND ALL EXISTING TREES.
7. A 48 INCH HIGH WOODEN OR CHAIN LINK FENCE WITH POSTS ON 8 FOOT CENTER TO CENTER (MAXIMUM) SHALL BE INSTALLED AROUND EACH EXISTING TREE PRIOR TO START OF CONSTRUCTION (TYPICAL FOR ALL TREES).

TREE PROTECTION FENCE DETAIL
N.T.S.



TRAP NO.	Z1 (FT)	Z2 (FT)	RISER BOT PERF ELEV (FT)	BARREL MAT'L	DIA Db (IN)	INLET ELEV BIE (FT)	LENGTH BI (FT)	OUTLET ELEV BOE (FT)
1	3	3	842.00	HDPE	15	839.65	97	831.63

TRAP NO.	EMBANKMENT TOP ELEV ETE (FT)	TOP WIDTH Etw (FT)	CLEAN OUT ELEV COE (FT)	BOTTOM ELEV BE (FT)	OUTLET BASIN RIPRAP SIZE (R-_)	ROCK THICK Rt (IN)	DEPTH D (IN)	WIDTH OBW (FT)	LENGTH OBL (FT)	*RISER CREST ELEV RCE(FT)
1	844.50	8	842.00	841.00	3	9	15	26	8	843.15

NOTES:

FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS.

UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS.

ALL SEDIMENT TRAPS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT.

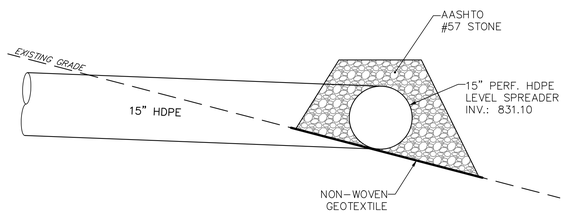
ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.

A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE TRAP IN THE MANNER DESCRIBED IN THE E&S PLAN.

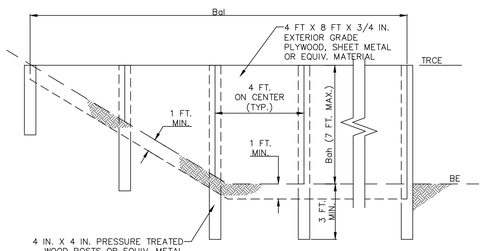
CHECK EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. CLOGGED OR DAMAGED SPILLWAYS AND/OR EMBANKMENTS SHALL BE IMMEDIATELY RESTORED TO THE DESIGN SPECIFICATIONS. DISPLACED RIPRAP WITHIN THE OUTLET PROTECTION SHALL BE REPLACED IMMEDIATELY.

ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS INSIDE THE TRAP SHALL BE STABILIZED BEFORE CONVERSION TO STORMWATER MANAGEMENT FACILITY.

*MODIFIED STANDARD CONSTRUCTION DETAIL #8-8
CONCRETE RISER WITH TEMPORARY DEWATERING HOLES
NOT TO SCALE



PERFORATED HDPE PIPE LEVEL SPREADER
N.T.S.



BASIN OR TRAP NO.	BAFFLE LENGTH Bal (FT)	BAFFLE HEIGHT Bah (FT)	TEMPORARY RISER CREST ELEV. TRCE (FT)	BOTTOM BOTTOM ELEV BE (FT)
88	88	88	8888.88	8888.88

NOTES:
- SEE APPROPRIATE BASIN DETAIL FOR PROPER LOCATION AND ORIENTATION.
- AN ACCEPTABLE ALTERNATIVE IS TO INSTALL A SUPER SILT FENCE AT THE BAFFLE LOCATION
- IN POOLS WITH DEPTHS EXCEEDING 7', THE TOP OF THE PLYWOOD BAFFLE DOES NOT NEED TO EXTEND TO THE TEMPORARY RISER CREST. SUPER SILT FENCE BAFFLES NEED NOT EXTEND TO TRCE ELEVATION.
- BAFFLES SHALL BE TIED INTO ONE SIDE OF THE BASIN UNLESS OTHERWISE SHOWN ON THE PLAN DRAWINGS.
- SUBSTITUTION OF MATERIALS NOT SPECIFIED IN THIS DETAIL SHALL BE APPROVED BY THE DEPARTMENT OR THE LOCAL CONSERVATION DISTRICT BEFORE INSTALLATION.
- DAMAGED OR WARPED BAFFLES SHALL BE REPLACED WITHIN 7 DAYS OF INSPECTION.
- BAFFLES REQUIRING SUPPORT POSTS SHALL NOT BE INSTALLED IN BASINS REQUIRING IMPERVIOUS LINERS.

STANDARD CONSTRUCTION DETAIL #7-14
BAFFLE
NOT TO SCALE

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

BARRY ISETT & associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

PRELIMINARY PLANS

EROSION & SEDIMENT CONTROL DETAILS
GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
SCALE:	CHK: CJW
DRAWN: JAZ	APPRD: CJW
JOB: 1064119.000	P MGR: CJW

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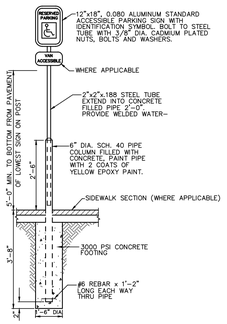
SHEET: 15 OF 16

ESD-2

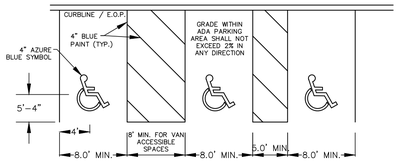
FILENAME: \\barryisett.com\work\Projects\2019\1064119.000_GSEP-Clubhouse\WORK_PRODUCT\LAND\CAD_Production\ms_1064119_LHPlanSet_v2018.dwg – September 17, 2020 2:48 PM



TYPICAL ACCESSIBLE PARKING SIGN

N.T.S.

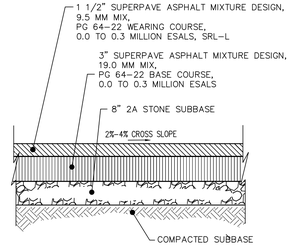
NOTE:
ALL SIGNAGE MUST COMPLY WITH SECTION 3354(d)(3)(I) OF 75 P.S., C.S., OF THE SOUTH WHITEHALL TOWNSHIP VEHICLE CODE.



NOTES:
1. SEE LAND DEVELOPMENT PLAN FOR PARKING LAYOUT
2. ALL DIMENSIONS ARE TO CENTERLINE OF MARKINGS
3. CURB RAMPS, PAVEMENT MARKINGS & APPLICABLE SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST A.D.A. ACCESSIBILITY GUIDELINES.

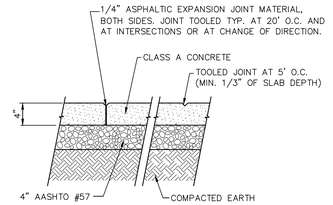
A.D.A. ACCESSIBLE PARKING STRIPING DETAIL

N.T.S.



LIGHT DUTY PAVEMENT SECTION

N.T.S.

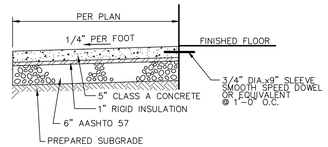


NOTES:
- SEE PLANS FOR WIDTH OF SIDEWALK.
- CROSS SLOPE NOT TO EXCEED ¼" PER FOOT.

SIDEWALK DETAIL

N.T.S.

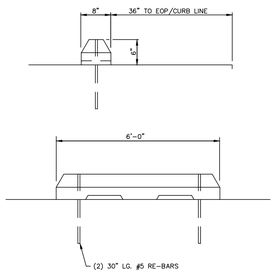
TYPICAL CONCRETE NOTES:
1. TOOL ALL EDGES
2. 1/4" PER FT. CROSS SLOPE (UNLESS SPECIFIED OTHERWISE).
3. LIGHT BROOM FINISH (UNLESS SPECIFIED OTHERWISE).
4. 1/2" PREMOLDED EXPANSION JOINT MATERIAL, JOINT TOOLED TYP. AT 20' O.C. AND AT INTERSECTIONS OR AT CHANGE OF DIRECTION (UNLESS SPECIFIED OTHERWISE).
5. TOOLED CONTROL JOINT AT 5' O.C., (MIN. 1/3 OF SLAB DEPTH (UNLESS SPECIFIED OTHERWISE).
6. WELDED WIRE MESH, WHERE SPECIFIED, SHALL BE HELD 1" MIN. ABOVE SUB-GRADE BY BOLSTERS OR CHAIRS MATCHING MATERIAL AND FINISH OF REINFORCING AND SHALL BE 100% CUT AT ALL JOINTS.
7. FOR HANDICAPPED RAMPS CALLED OUT ON THESE PLANS, FIRST REFER TO DETAILS ON THESE PLANS, AND PROJECT SPECIFICATION, FOR CONSTRUCTION DETAILS, AND THEN PENNDOT RC-67M FOR ADDITIONAL CLARIFICATION. (AFTER APPROVAL OF DESIGN ENGINEER)



NOTE:
SIDEWALKS SHALL BE DOWELED INTO BUILDING FOUNDATION AT ENTRANCES.

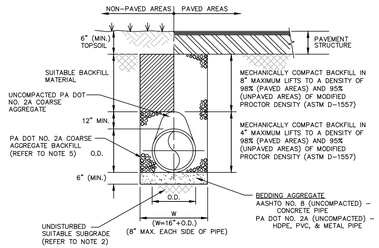
CONCRETE SIDEWALK @ DOORWAY

N.T.S.



6' PRECAST CONCRETE WHEEL STOP

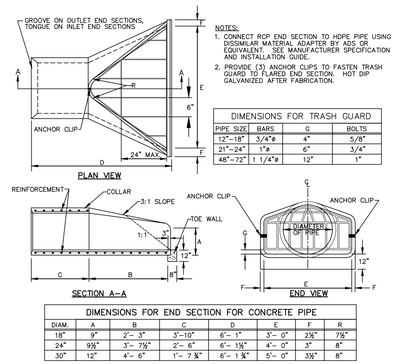
N.T.S.



TYPICAL STORM PIPE TRENCH & BACKFILL

N.T.S.

NOTES:
1. EXCAVATE TRENCH BOX AND INSTALL SHORING AS REQUIRED TO COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND CODES.
2. IF UNSUITABLE MATERIAL IS FOUND, UNDERCUT AS DIRECTED BY THE ENGINEER AND BACKFILL WITH SUITABLE MATERIAL TO BOTTOM OF BEDDING ELEVATION.
3. KEEP EXCAVATINGS DRY AND FREE OF WATER. INTERCEPT AND DIVERT SURFACE DRAINAGE AWAY FROM EXCAVATIONS. DEWATER ANY PRECIPITATION AND SUBSURFACE WATER FROM EXCAVATIONS.
4. DO NOT ADVANCE TRENCHING OPERATIONS MORE THAN 200 FEET AHEAD OF COMPLETED PIPELINE.
5. ALL TRENCHES WITHIN PAVED AREAS SHALL BE BACKFILLED WITH FULL DEPTH PA DOT NO. 2A COARSE AGGREGATE.



NOTES:
1. CONNECT RCP END SECTION TO HDPE PIPE USING DISSIMILAR MATERIAL ADAPTER BY ADS OR EQUIVALENT. SEE MANUFACTURER SPECIFICATION AND INSTALLATION GUIDE.
2. PROVIDE (3) ANCHOR CLIPS TO FASTEN TRASH GUARD TO FLARED END SECTION. HOT DIP GALVANIZED AFTER FABRICATION.

DIMENSIONS FOR TRASH GUARD

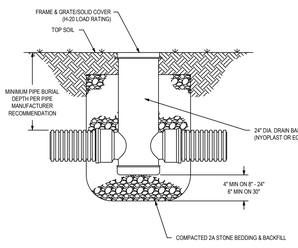
PIPE SIZE	BARS	G	BOLTS
12"-18"	3/4"#	4"	5/8"
21"-24"	1"#	6"	3/4"
48"-72"	1 1/4"#	12"	1"

DIMENSIONS FOR END SECTION FOR CONCRETE PIPE

DIAM.	A	B	C	D	E	F	R
18"	9"	2'- 3"	3'-10"	6'- 1"	3'- 0"	2½"	7½"
24"	9½"	3'- 7½"	2'- 6"	6'- 1½"	4'- 0"	3"	8"
30"	12"	4'- 6"	1'- 7 ¾"	6'- 1 ¾"	5'- 0"	3½"	8"

FLARED END SECTION WITH SLOPED TRASH GUARD

N.T.S.



24" DIA. NYOPLAST DRAIN BASIN

N.T.S.

TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS

SPECIFICATIONS: THE DEPARTMENT RECOMMENDS THE USE OF THE PENN STATE PUBLICATION, "EROSION CONTROL AND CONSERVATION PLANTINGS ON NONCROPLAND", AS THE STANDARD TO USE FOR SELECTION OF SPECIES, SEED SPECIFICATIONS, MIXTURES, LIMING AND FERTILIZING, TIME OF SEEDING, AND SEEDING METHODS. SPECIFICATIONS FOR THESE ITEMS MAY ALSO BE OBTAINED FROM PENN DOT'S PUBLICATION # 408, SECTION 804 OR BY CONTACTING THE APPLICABLE COUNTY CONVERSATION DISTRICT. UPON SELECTION OF A REFERENCE, THAT REFERENCE SHOULD BE USED TO PROVIDE ALL SPECIFICATIONS FOR SEEDING, MULCHING, AND SOIL AMENDMENTS. THE FOLLOWING SPECIFICATION WILL BE USED FOR THIS PROJECT:

(TEMPORARY)

SPECIES: ANNUAL RYEGRASS
%PURE LIVE SEED: 98 %
APPLICATION RATE: 40 LB./ACRE
FERTILIZER TYPE: 10-10-10 (X-X-X)
FERTILIZER APPL. RATE: 500 LB./ACRE
LIMING RATE: 1 T./ACRE
MULCH TYPE: STRAW
MULCHING RATE: 3 T./ACRE

(PERMANENT)

TOPSOIL PLACEMENT DEPTH: 6 IN.
SPECIES: KENTUCKY BLUEGRASS + TURF TYPE PERENNIAL RYEGRASS
FINE FESCUE (RED OR CHEWING)
%PURE LIVE SEED: 98 %
APPLICATION RATE: (200 LBS./ACRE TOTAL) LB./ACRE
FERTILIZER TYPE: 10-20-20 (X-X-X)
FERTILIZER APPL. RATE: 1000 LB./ACRE
LIMING RATE: 6 T./ACRE
MULCH TYPE: STRAW
MULCHING RATE: 3 T./ACRE
ANCHOR MATERIAL: NON-ASPHALTIC CON TACK TACKIFIER
ANCHORING METHOD: BY SPRAYING EQUIPMENT
RATE OF ANCHOR MATERIAL APPL.: 50 LB./ACRE
SEEDING SEASON DATES: MARCH 15 – MAY 15
AUGUST 16 – OCTOBER 15

(PERMANENT-STEEP SLOPE)

TOPSOIL PLACEMENT DEPTH: 6 IN.
SPECIES: FESTUCA RUBRA COMMUNATA + FESTUCA OVINA GLAUCA
+ FESTUCA OVINA DURISUCULA + FESTUCA RUBRA DAWSON
+ LOLIUM MULTIFORUM + FESTUCA RUBRA
+ FESTUCA RUBRA TRICHOPHYLLA
%PURE LIVE SEED: 98 %
APPLICATION RATE: 250 LB./ACRE
FERTILIZER TYPE: 10-20-20 (X-X-X)
FERTILIZER APPL. RATE: 1000 LB./ACRE
LIMING RATE: 6 T./ACRE
MULCH TYPE: STRAW
MULCHING RATE: 3 T./ACRE
ANCHOR MATERIAL: EROSION CONTROL BLANKETS/MATS
ANCHORING METHOD: METAL STAPLES
RATE OF ANCHOR MATERIAL APPL.: SEE PENNDOT PUB 408 SECTION 806.3(A) LB./ACRE
SEEDING SEASON DATES: MARCH 15 – MAY 15
AUGUST 16 – OCTOBER 15

NOTE:
IF ANY REVISIONS TO THE SEEDING SPECIFICATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT THE CONSERVATION DISTRICT TO OBTAIN GUIDANCE ON ALTERNATIVE SEEDING SPECIFICATIONS.

REVISIONS	DATE	BY
1. TOWNSHIP COMMENTS	9/18/2020	JAZ

BARRY ISETT & associates INC
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS
610.398.0904
barryisett.com
85 SOUTH ROUTE 100
ALLENTOWN, PA 18106

PRELIMINARY PLANS

CONSTRUCTION DETAILS

GIRL SCOUTS OF EASTERN PA.
2638 W. ROCK ROAD
SALISBURY TOWNSHIP
LEHIGH COUNTY, PA

DATE: 8/26/2020	DSGN: CJW
SCALE: AS NOTED	CHK: CJW
DRAWN: JAZ	APPRD: CJW
JOB: 1064119.000	P MGR: CJW

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SHEET: 16 OF 16

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