BLOCK 378, UNIT 40 N/L JOSEPH & RENEA GADOMSKI BLOCK 378, UNIT 48 N/L MATTHEW & KELLY URICK *50' 30'* N 42°24'00" E 150.00' (20.00') RA YMOND 60.00 FRONT YARD SETBACK 4736'00" E 20' PROPOSED POOL DESIGN BY OTHERS R4 WIDE STORMWATER EASEMENT 4736'00" W A VENUE (20.00) M "00.42.24 S 120.001 BLOCK 378, UNIT 70 N/L JACLYN DOUGHERTY & KIRSTYN VARAS ZONING R4 LOCATION MAP SCALE: 1" = 800' RAYMOND AVE CLEMENS AVE LARKE RD BISHOP AVE BOONE AVE HALL AVE + 100.2 + 100.2 100 WUNDERLAND - EDGE OF PAVING
COMPOST FILTER SOCK
SOIL BOUNDARY LINE CONCRETE SIDEWALK OR PAD 1. TAX PARCEL — BLOCK 378, UNIT 69 (P/N 30-00-5538)
2. AREA TO LEGAL R/W LINE — 9,000 SF
3. ZONING — R4, HIGH DENSITY RESIDENTIAL DISTRICT
REQUIRED
a.LOT AREA—7,500 SF
b.LOT WIDTH—50'
c.LOT DEPTH—100'
d.FRONT YARD—20'
e.SIDE YARD—10'
f.REAR YARD—25'
g.BLDG. AREA—40%
h.IMP. COV.—55%
i.GREEN AREA—45%

FUNCTION: * TOTAL INCREASE OF IMPERVIOUS COVERAGE =

4. THESE DRAWINGS INDICATE THE APPROXIMATE LOCATION OF EXISTING
UTILITIES IN THE VICINITY OF THE PROJECT & ARE NOT GUARANTEE,
ACCURACY AND/OR COMPLETENESS. PENNSYLVANIA ACT 187 REQUIF
CONTRACTORS DETERMINE THE LOCATION OF ALL UTILITY, SEWERAGE
LINES BEFORE COMMENCING CONSTRUCTION. (1-800-242-1776)

5. 2 OFF-STREET PARKING
SPACES - 2 in DRIVEWAY

1 in GARAGE

6. OWNERS/APPLICANTS: JOSEPH & LOUISE DOUGHERTY DWELLING DRIVEWAY WALKWAY OWNERS/APPLICANTS: JOSEPH & LOUISE DOUGHERTY

3028 RAYMOND AVENUE

ABINGTON, PA 19001

SOILS LIST: UrkD — Urban land—Edgemont complex, 8 to 25 percent slopes.

UroB — Urban land—Lawrenceville complex, 0 to 8 percent slopes.

DATUM OF TOPOGRAPHY — ABINGTON TOWNSHIP SEWER DATUM, MANHOLE #5681
IN RAYMOND AVENUE, RIM ELEVATION = 288.32, INVERT = 279.60. EXISTING IMPERVIOUS COVERAGE 2,483 SF 588 SF 40 SF 3,111 SF 3.BELL TELEPHONE CO. of PA. 2.AQUA PENNSYLVANIA, INC. 4.PHILADELPHIA ELECTRIC Co. 187 USERS

ADDRESS
1176 OLD YORK RD.
ABINGTON, PA.19001 IMPERVIOUS COVERAGE EAST NORRITON TWP.,P.O. BOX 350 NORRISTOWN,PA. 400 PARK AVE. WARMINSTER PA. 18974 762 LANCASTER AVE. BRYN MAWR,PA. 19010 104 WITMER RD. HORSHAM,PA. 1,800 SF IG SUBSURFACE ED FOR ES THAT & WATER REGISTERED PROFESSIONAL PROFESS WRENCE J. BYRNE FESSIONAL ENGINEER CENSE No.40487 2,483 SF 588 SF 40 SF 1,800 SF 4,911 SF* L/ST FOR ABINGTON
TELEPHONE
215-884-5000 RECISTERED PROFESSIONAL PROFESSIONAL LAND SURVEYOR NO. 75128 EDMUND A. CHADROW, III PROFESSIONAL LAND SURVEYOR LICENSE No.75128 1-215-275-2368 OUTSIDE PA. 412-323-7100 IN PA. 800-242-1776 1-800-711-4779 215-956-2623 JOSEPH PLAN OF LAND DEVELOPMENT

3028 RAYMOND AVENUE

ABINGTON TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA MADE FOR SCALE: 1"=10' EASTERN/CHADROW
333 E. STREET ROAD * WARMINSTER, PA. 18974 * PENNSYLVANIA ONE CALL SYSTEM, INC. CONTACTED: 11-9-2018 SERIAL No.20183132789 FILE # RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC. AT NORRISTOWN, PA. IN PLAN BOOK _____, PAGE NO. ____, ON ____ CERTIFIED BY THE MONTGOMERY COUNTY PLANNING APPROVED BY THE BOARD OF COMMISSIONERS OF ABINGTON THIS ______ DAY OF ____ OWNER KNOWN TO ME (OR SATISFACTORILLY PROVEN) TO BE THE PERSON(S) WHOSE NAME(S) (IS/ARE) SUBSCRIBED TO THE FOREGOING PLAN, AND ACKNOWLEDGED THAT (HE, SHE, THEY) (IS/ARE) THE OWNER (S) OF THE DESIGNATED LAND, THAT ALL NECESSARY APPROVAL OF THE PLAN HAS BEEN OBTAINED AND IS ENDORSED THEREON, AND THAT (HE, SHE, THEY) DESIRE THAT THE FOREGOING PLAN MAY BE DULY RECORDED. ON THE _____DAY OF, _____, A.D. 20____, BEFORE ME THE SUBSCRIBER, A NOTARY PUBLIC OF THE COMMONWEALTH OF PENNSYLVANIA, RESIDING IN _____, PERSONALLY APPEARED _____ <u>,</u> PROCESSED and REVIEWED. A report has been prepared by the Montgomery County Planning Commission in accordance with the Municipalities Planning Code. MCPC. No. Montgomery County Planning Commission tified this B YOU DIG! date LOUISE 1 ASSOCIATES,
14 * (215) 672-8671 FAX (215) 679 ~ 4. SHEET INDEX

PLAN OF LAND DEVELOPMENT

EXISTING FEATURES PLAN

GRADING, EROSION & SEDIMENT

CONTROL PLAN

DETAILS SHEET NOTARY PUBLIC DOUGHERTY G COMMISSION THIS . PRESIDENT ENGINEER 18 MARCH 2019 SECRETARY E-2578-THE TOWNSHIP OF INC.



SCALE: 1"=10' EASTERN/ CHADROW ASSOCIATES, 18 MARCH 2019 INC.

IOSEPH <u>.</u> B LOUISE DOUGHERTY **PENNSYLVANIA**

GRADING, EROSION & 3028 RAYMOND A ABINGTON TOWNSHIP, NADE FOR SEDIMENT CONTROL PL AVENUE MONTGOMERY COUNTY,

RECISTERED PROFESSIONAL PROFESSIONAL LAND SURVEYOR NO. 75128

REGISTERED PROFESSIONAL PROFESS

RENCE J. BYRNE ESSIONAL ENGINEER ENSE No.40487

EDMUND A. CHADROW, III ROFESSIONAL LAND SURVEYOR LICENSE No.75128

BLOCK 378, UNIT 48 N/L MATTHEW & KELLY URICK

BLOCK 378, UNIT 47
N/L JAMES REGAN &
MONIQUE ELAINE

ZONING - R4

60.00

4736'00" W

2'x2' INLET W/2' SUMP & TRAP TG=273.75 -INV=270.0 SUMP=268.0

- RELOCATE DOWNSPOUT

R4

EAST NORRITON TWP.,P.O. BOX 350 NORRISTOWN,PA.

400 PARK AVE. WARMINSTER PA. 18974 762 LANCASTER AVE. BRYN MAWR,PA. 19010 104 WITMER RD. HORSHAM,PA. YORK RD. 1, PA.19001 TELEPHONE 215-884-5000 OUTSIDE PA. 412-323-7100 IN PA. 800-242-1776 215-956-2623 .215–275–2368 -800-711-4779

UTILITY POLE
CONCRETE CURB
EXISTING WATERLINE
EXISTING SANITARY SEWER
EXISTING MANHOLE

EDGE OF PAVING
COMPOST FILTER SOCK
SOIL BOUNDARY LINE

ICRETE SIDEWALK OR PAD

+[100.2] +100.2 100]

3.BELL TELEPHONE CO. of PA. 2.AQUA PENNSYLVANIA, INC. 4.PHILADELPHIA ELECTRIC Co. USERS L/ST_{FOR}

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE JUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE. PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE JUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED. ER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMED NOT RESUME UNTIL THE PROBLEM IS CORRECTED. STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG

BLOCK 378, UNIT 40 N/L JOSEPH & RENEA GADOMSKI

4 279.67 ₄

44

N 42°24'00" E

PROPOSED POOL DESIGN BY OTHERS

MV: 276

BLOCK 378, UNIT 70 N/L JACLYN DOUGHERTY & KIRSTYN VARAS

ZONING

R4

RETAINING WALL DESIGN BY OTHERS

120.001

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

MANUAL.

MANUAL.

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

SHALL NOT BE PERMITTED TO GROSS COMPOST FILTER SOCKS.

SHALL NOT BE PERMITTED TO GROSS COMPOST FILTER SOCKS.

THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. FILTER SOCKS SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND THE BARRIER ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR WITHIN 24 HOURS OF INSPECTION.

SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR WITHIN 24 HOURS OF INSPECTION.

DABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED G TO MANUFACTURER'S RECOMMENDATIONS.

G TO MANUFACTURER'S THE MESH LATTER CASE, THE MESH Y BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH Y BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH Y BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH Y BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH Y BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH Y BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH Y BE REPOSED AND AS A SOIL SUPPLEMENT.

MNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS NG SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

DISPOSAL PURPOSES SHALL BE OF SEDIMENT. SPARE BAGS SHALL E FILLED. BAGS SHALL BE PLACED 'S ALREADY ATTACHED.

NTO STABLE, EROSION ND FLOW PATH SHALL BE ACITY. BAGS SHALL NOT BE OR OTHER NON-ERODIBLE PE STEEPNESS.

FERM OR COMPOST S, WITHIN 50 FEET OF ANY

PLAN VIEW −2 IN. × 2 IN. WOODEN STAKES PLACED 10 FT ON CENTER

BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPII HICH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTE

L SEWN WITH HIGH NING PARTICLES LARGER TEXTILES THAT MEET THE

EXISTING

150.00

8 45.54.00. M

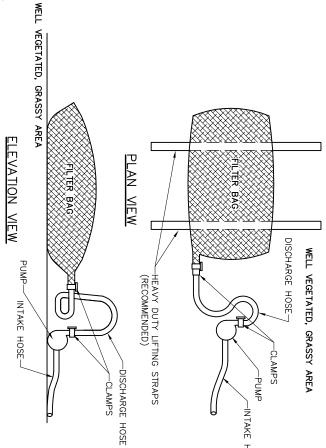
Trop Crix

UTILIZE EXSITNG
DRIVEWAY AS
CONSTRUCTION
ENTRANCE

4736'00" E

60.00'

CONC MON. FND.



FOR ADDITIONAL SEEDING INFORMATION COBY PENNSYLVANIA STATE UNIVERSITY. SPRING OATS SUDAN GRASS WINTER RYE COMMON WEIGHT SEEDING RATE LBS/1000 SQ. FT. 2.5 3.5 AGRONOMY GUIDE", MARCH 1 - JUNE 15
MARCH 15 - SEPT. 15
MARCH 1 - JUNE 15
AUGUST 15 - SEPT. 15
MARCH 1 - JUNE 15
MAY 15 - AUGUST 15
AUGUST 15 - OCTOBER 15

OCATION MAP SITE CLEMENS AVE BISHOP AVE BLOWN/PLACED FILTER MEDIA-BOONE AVE HALL AVE -2 IN. × 2 IN. WOODEN STAKES PLACED 10 FT ON CENTER

50° *30'* RA YMOND SITE BEN SAN.MH NO. S RIM: 288.32 INV: 279.60 R4 A VENUE

> GENERAL SEEDING
> LAWN AREAS
>
> PREPARATION BY WEIGHT
> 50%
> 40%
> 10% ℘ MULCH GUIDELINE PERMANENT SEED MIXTURE-

WUNDERLAND

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE INITIATED. CLEARING & GRUBBING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE.

At least 3 days before starting any earth disturbance activities, all contractors involved in those activities shall notify the Pennsylvania One Call System, Inc. at 1-800-242-1776. for buried utilities locations. At least 3 days before starting any earth disturbance activities, the applicant shall notify the Township.

STAGE 1 — Utilize existing driveway as construction entrance. Install silt sock in accordance with the details. Strip topsoil, stockpile excavated material & protect with silt fence. Immediately stabilize all exposed areas with temporary seed mixture & straw. All erosion & stabilization control must be implemented before proceeding to Stage 2.

CONSTRUCTION SEQUENCE

STAGE 3 — Upon completion of Stage 2, complete construction of pool, drywell & final grades as per the approved plans. Distribute topsoil from the storage area & stabilize disturbed areas in accordance with the seeding & mulching guidelines found on the plans. After final site stabilization has been acheived, temporary erosion & sediment BMP controls must be removed. Areas disturbed during removal of the BMP's must be stabilized immediately. Immediately after earth disturbance activities cease, the operator shall stabilize any activities disturbed by the activities. during non—germinating periods, mulch must be applied at the specified rates. Disturbed areas which are not at finished grade & which will be redisturbed within one year must be stabilized in accordance with the temporary vegetation stabilization specifications. Disturbed areas which are at finished grade or which will not be redisturbed within one year must be stabilized in accordance with the permanent vegetative stabilization specifications. An area shall be considered to have achieved final stabilization when it has a minimum uniform 70% perennial vegetative cover or other non—vegetative cover with a density sufficient to resist accelerated surface erosion & subsurface characteristics sufficient to resist sliding & other movements. PENNSYLVANIA ONE CALL SYSTEM, INC. CONTACTED: 11-9-2018 SERIAL No.20183132789 TEMPORARY SEED MIXTURE

ALL AREAS OF SURFACE DISTURBANCE SUBJECT TO STORMWATER RUNOFF
SHALL BE SEEDED AND MULCHED IMMEDIATELY. STATE REGULATIONS REQUIRE
THAT UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE
ACTURY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY
STABILIZED, AS FOLLOWS:

1) PERFORM CULTURAL OPERATIONS AT RIGHT ANGLES TO SLOPE.
2) APPLY 10—10—10 FERTILIZER © 100 LBS. PER 1,000 SQ. FT.
3) APPLY 10—10—10 FERTILIZER TO A DEPTH OF 4 INCHES USING SUITABLE
EQUIPMENT.
4) WORK IN LIME AND FERTILIZER TO A DEPTH OF 4 INCHES USING SUITABLE
EQUIPMENT.
5) APPLY WINTER RYE © 3.5 LBS. PER 1,000 SQ. FT.
6) COVER RYE WITH 2 INCHES OF SOIL OR SUITABLE MATERIAL. RATE MAY BE
ALTERED ACCORDING TO TESTS MADE AT SITE OR, AFTER OCTOBER 15TH.
7) MULCH WITH SMALL GRAIN STRAW AT A RATE OF 137 LBS. PER 1,000 SQ.
FT., OR 3 TONS PER ACRE.
8) DURING NON-GERMINATING PERIODS (BETWEEN OCTOBER 15 AND MARCH 1)
TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED BY MULCHING WITH
SMALL GRAIN STRAW AT A RATE OF 137 LBS. PER 1,000 SQ. FT., OR 3
TONS PER ACRE. CONSULT THE AGRONOMY GUIDE, 2005—2006 FOR OTHER TAGE 2 — Upon completion of Stage 1 begin construction of pool, drywell & tilities. Inspect silt fence after every runoff event. Sediment must be smoved where accumulations reach ½ the above ground height of the silt ock. Any sediment on roadway will be cleared immediately. Stage 2 must be nplemented before proceeding to Stage 3. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT SHALL BE FOLLOWED. SHOULD UNFORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADDACEMT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDMENT DISPLACEMENT. SPECIAL ATTENTION SHOULD BE GIVEN TO FROZEN SLOPES. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION. EROSION AND SEDIMENT CON DATE PROJECT TO BEGIN:
DATE OF FINAL STABILIZATION:

A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE II ON THE PLAN. THE OPERATOR SHALL REMOVE FROM THIS SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS & WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 Pa. Code 260.1 et seq., 271.1 et seq. THE CONTRACTOR SHALL NOT BUILDING MATERIAL OR WASTES AT THIS SITE. NO PORTION OF THE SUBJECT PROPERTY IS DESIGNATED AS WETLANDS ACCORDING TO NATIONAL WETLANDS INVENTORY MAPS. PERMANENT SURFACE MATERIALS SHALL BE PLACED AS SOON AS CONSTRUCTION OPERATIONS ALLOW, IN ACCORDANCE WITH GUIDELINES ON THE PLANS. RECYCLING & DISPOSAL NOTE
ANY FILL OR TOPSOIL TAKEN FROM SITE SHOULD BE TAKEN TO A SITE WITH AN APPROVED E & S PLAN.
ANY MATERIALS THAT CAN BE RECYCLED SHOULD BE COMPLETED ACCORDING TO LOCAL, COUNTY, STATE & FEDERAL LAWS. CONTROL NOTES Q

STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPFWOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16 (POLYPROTHERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". OPYLENE), "STAND
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE: CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
- A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
- STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

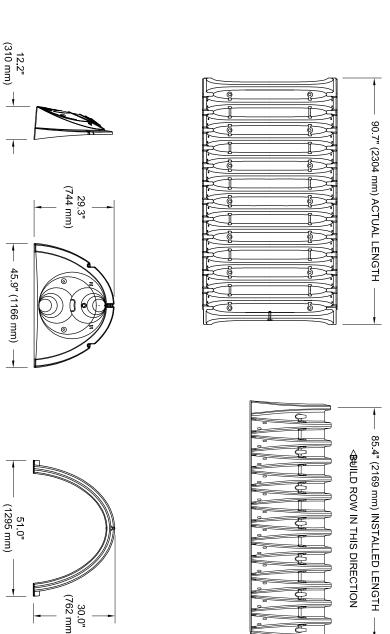
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFPRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALL GUIDE". ED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION
- AN EXCAVATOR SITUATED OVER THE CH
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR /
 STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 STONESHOOTER LOCATED OFF THE CHAMBER BED.
 BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR
 BACKFILL FROM OUTSIDE THE EXCAVATION USING A L ON THE FOUNDATION STONE OR SUBGRADE. ONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPAC TED PRIOR TO PLACING CHAMBERS.
 PRIOR TO PLACING STONE.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACE MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.

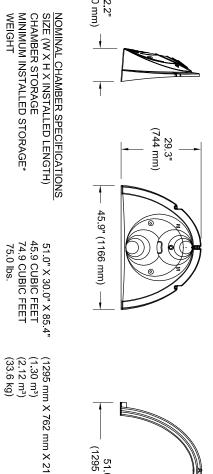
 EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSH
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WIT ENGINEER. H CHAMBER FOUNDATION MATERIALS BEA CLEAN, CRUSHED, ANGULAR STONE
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

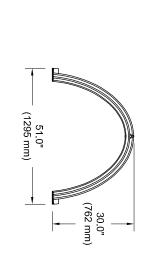
NOTES FOR CONSTRUCTION EQUIPMENT

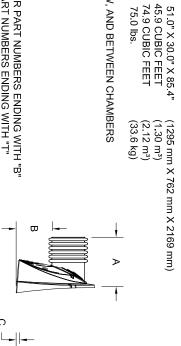
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
 NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL
 WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-
- USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY. THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMI
- CONTACT STORMTECH AT 1-888-892 IN INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQ

SC-740 TECHNICAL SPECIFICATION NTS



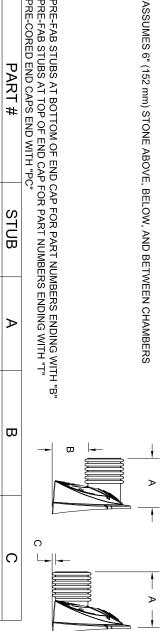






*ASSUMES 6" (152 mi

າ) STONE ABOVE, BEI



		18.5" (470 mm)	24" (600 mm)	SC740EPE24B*
		(000 11111)	10 (100 11111)	SC740EPE18B / SC740EPE18BPC
mm)	5.0" (127 mm)	19 7" (500 mm)	18" (450 mm)	SC740EPE18T / SC740EPE18TPC
	1	10 1 (101 11111)	10 (010 111111)	SC740EPE15B / SC740EPE15BPC
mm)	9.0" (229 mm)	18 4" (467 mm)	15" (375 mm)	SC740EPE15T / SC740EPE15TPC
		17.7 (3/3/11111)	12 (300 IIIIII)	SC740EPE12B / SC740EPE12BPC
3 mm)	12.5" (318 mm)	14 7" (373 mm)	12" (300 mm)	SC740EPE12T / SC740EPE12TPC
		13.4 (340 11111)	10 (230 111111)	SC740EPE10B / SC740EPE10BPC
mm)	14.5" (368 mm)	13 4" (340 mm)	10" (250 mm)	SC740EPE10T / SC740EPE10TPC
		12.2 (010 11111)	0 (200)	SC740EPE08B / SC740EPE08BPC
mm)	16.5" (419 mm)	12 2" (310 mm)	8" (200 mm)	SC740EPE08T /SC740EPE08TPC
		10.5 (2) (11111)	0 (130 11111)	SC740EPE06B / SC740EPE06BPC
mm)	18.5" (470 mm)	10 0" (277 mm)	6" (150 mm)	SC740EPE06T / SC740EPE06TPC

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS.
CONTACT STORMTECH FOR MORE INFORMATION.

 SC-310
 6" (150 mm)
 4" (100 mm)

 SC-740
 10" (250 mm)
 4" (100 mm)

 DC-780
 10" (250 mm)
 4" (100 mm)

 MC-3500
 12" (300 mm)
 6" (150 mm)

 MC-4500
 12" (300 mm)
 8" (200 mm)

 INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS

 GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON

PLACE ADS GEOSYNTHETICS 315 WOVEN GEOTEXTILE (CENTERED ON INSERTA-TEE INLET) OVER BEDDING STONE FOR SCOUR PROTECTION AT SIDE INLET CONNECTIONS. GEOTEXTILE MUST EXTEND 6" (150 mm)

PAST CHAMBER FOOT

SECTION A-A

SIDE VIEW

HEIGHT FROM BASE OF CHAMBER (X)

INSERTA TEE TO BE INSTALLED, CENTERED OVER CORRUGATION

INSERTA TEE CONNECTION

CONVEYANCE PIPE
MATERIAL MAY VARY (PVC, HDPE, ETC.)

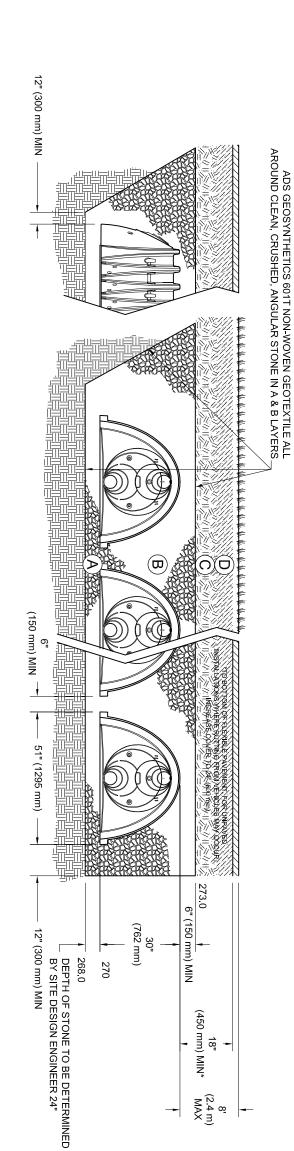
INSERTA TEE DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

В	O	D	
EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	MATERIAL LOCATION
CLEAN, CRUSHED, ANGULAR STONE	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	DESCRIPTION
AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	AASHTO M1451 A-1, A-2-4, A-3 OR J AASHTO M431 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	N/A	AASHTO MATERIAL CLASSIFICATIONS
NO COMPACTION REQUIRED.	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.	COMPACTION / DENSITY REQUIREMENT
	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' CLEAN, CRUSHED, ANGULAR STONE 3, 357, 4, 467, 5, 56, 57 LAYER) TO THE 'C' LAYER ABOVE.	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE. AASHTO M145' A-1, A-2-4, A-3 FINES OR PROCESSED AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. OR AASHTO M43' SUBBASE MAY BE A PART OF THE 'C' LAYER. GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. OR AASHTO M43' 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 AASHTO M43' CLEAN, CRUSHED, ANGULAR STONE 3, 357, 4, 467, 5, 56, 57	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR JUNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. BEMBEDMENT STONE: FILL SURROUNDING THE CHAMBER FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE. ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER SOIL/AND FOR PAVEMENT SUBBASE MAY FOR PAVEMENT SUBBASE MAY FOR PAVEMENT. ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER SOIL/AND FOR PAVEMENT SUBBASE MAY FOR PAVEMENT. ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER SOIL/AND FOR PAVEMENT SUBBASE MAY FOR PAVEMENT. ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER SOIL/AND FOR PAVEMENT. ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER SOIL MAY FOR PAVEMENT. ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER SOIL MAY FOR PAVEMENT. ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER SOIL MAY FOR PAVEMENT. ANSHTO M145' A-1, A-2-4, A-3 OR FINES OR PROCESSED AGGREGATE. OR ASHTO M43' AASHTO M43' S, 16, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 EMBEDMENT STONE: FILL SURROUNDING THE C'LAYER ABOVE. CLEAN, CRUSHED, ANGULAR STONE AASHTO M43' AASHTO M45' AASHTO M

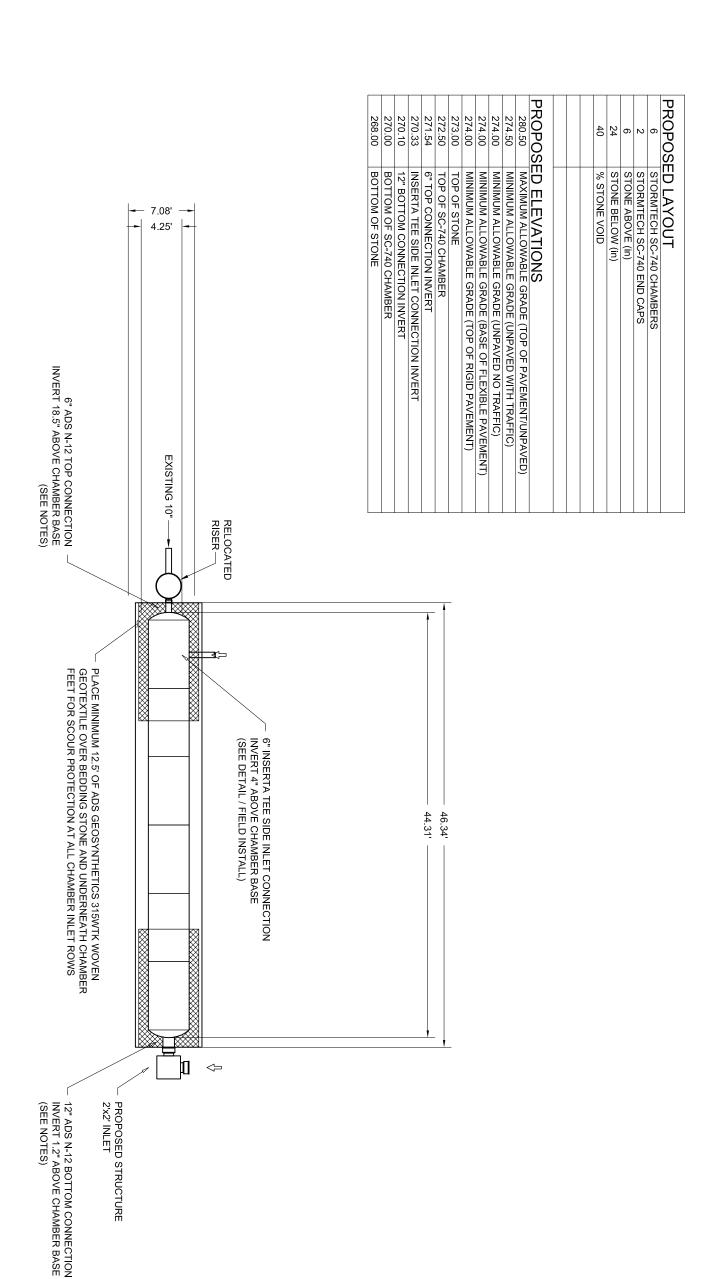
LISTED, AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, JULAR NO. 4 (AASHTO M43) STONE".

RMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. STE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION JIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

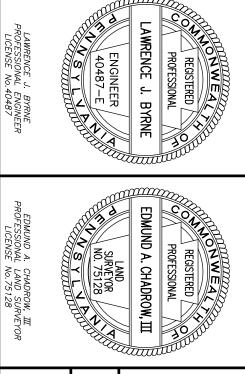


NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) COFOR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". JGATED WALL STORMWATER COLLECTION CHAMBERS"
- SC-740 CHAMBERS SHALL BE DESIG CHAMBERS". NED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION
- "ACCEPTABLE FILL MATER MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. THE DEPTH OF FOUNDATION STONE
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



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DETAILS SHEET

3028 RAYMOND AVENUE

ABINGTON TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA
MADE FOR

JOSEPH <u>,</u> B LOUISE DOUGHERTY

18 MARCH 2018

EASTERN/CHADROW

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