

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019

HSA
Heckendorn Shiles Architects

PROJECT TEAM

CLIENT
Tredyffrin/Easttown School District
940 West Valley Road, Suite 1700
Wayne, PA 19087
(610) 240-1900

ARCHITECTURAL
Heckendorn Shiles Architects
347 East Conestoga Road
Wayne, PA 19087
610-994-3500

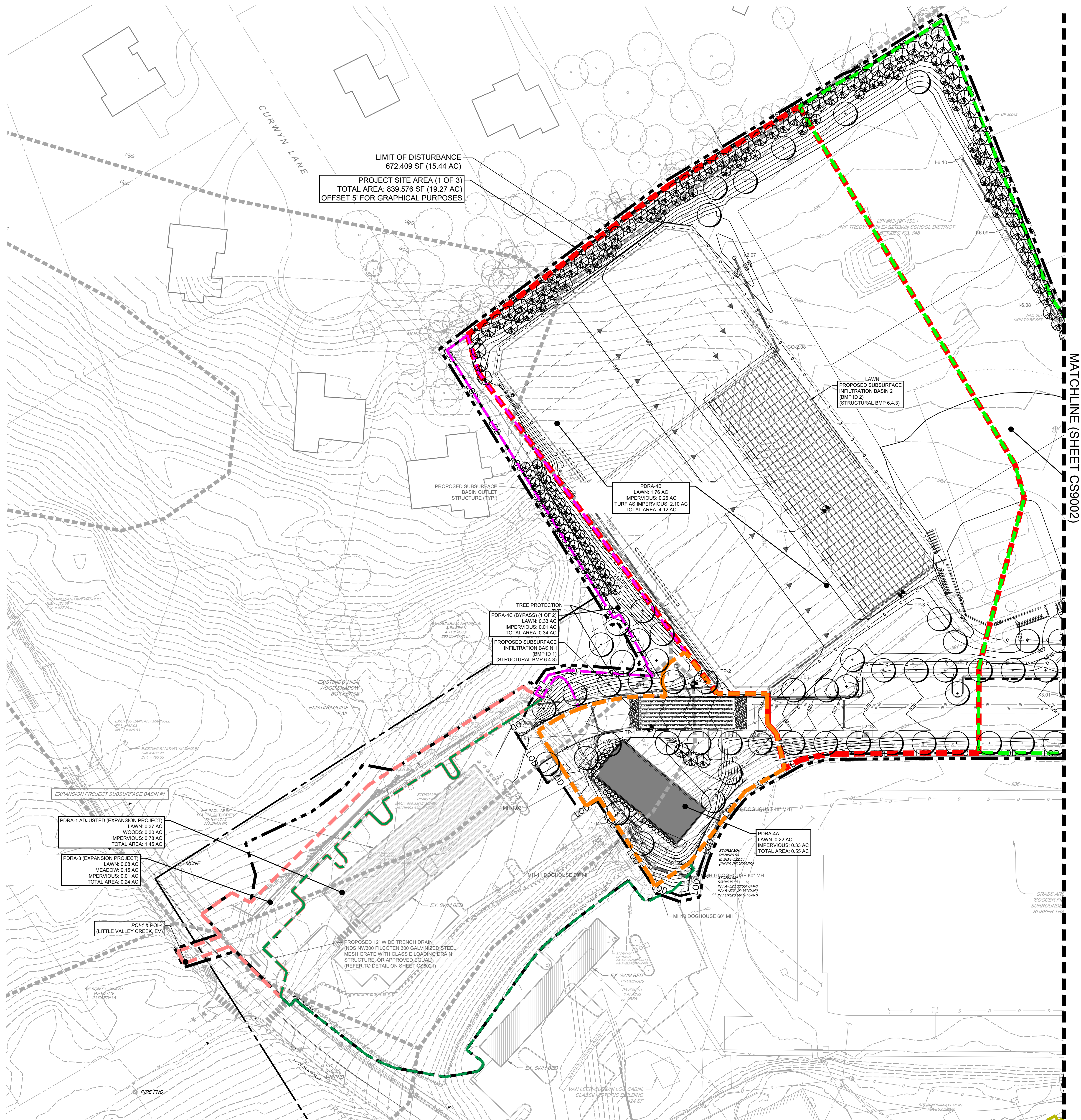
STRUCTURAL ENGINEER
N/A

MEPFP ENGINEER
Schiller and Hersh Associates, Inc.
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
(215) 886-8947

SITE / CIVIL
Pennoni Associates, Inc.
158 W Gay Street, Suite 300
West Chester, PA 19380
(610) 429-8907

MISC DISCIPLINE
N/A

NOT FOR
CONSTRUCTION



PCSM LEGEND		
	PROPOSED LIMIT OF DISTURBANCE	
	PROPOSED TEST PIT	
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CHESTER COUNTY, PA

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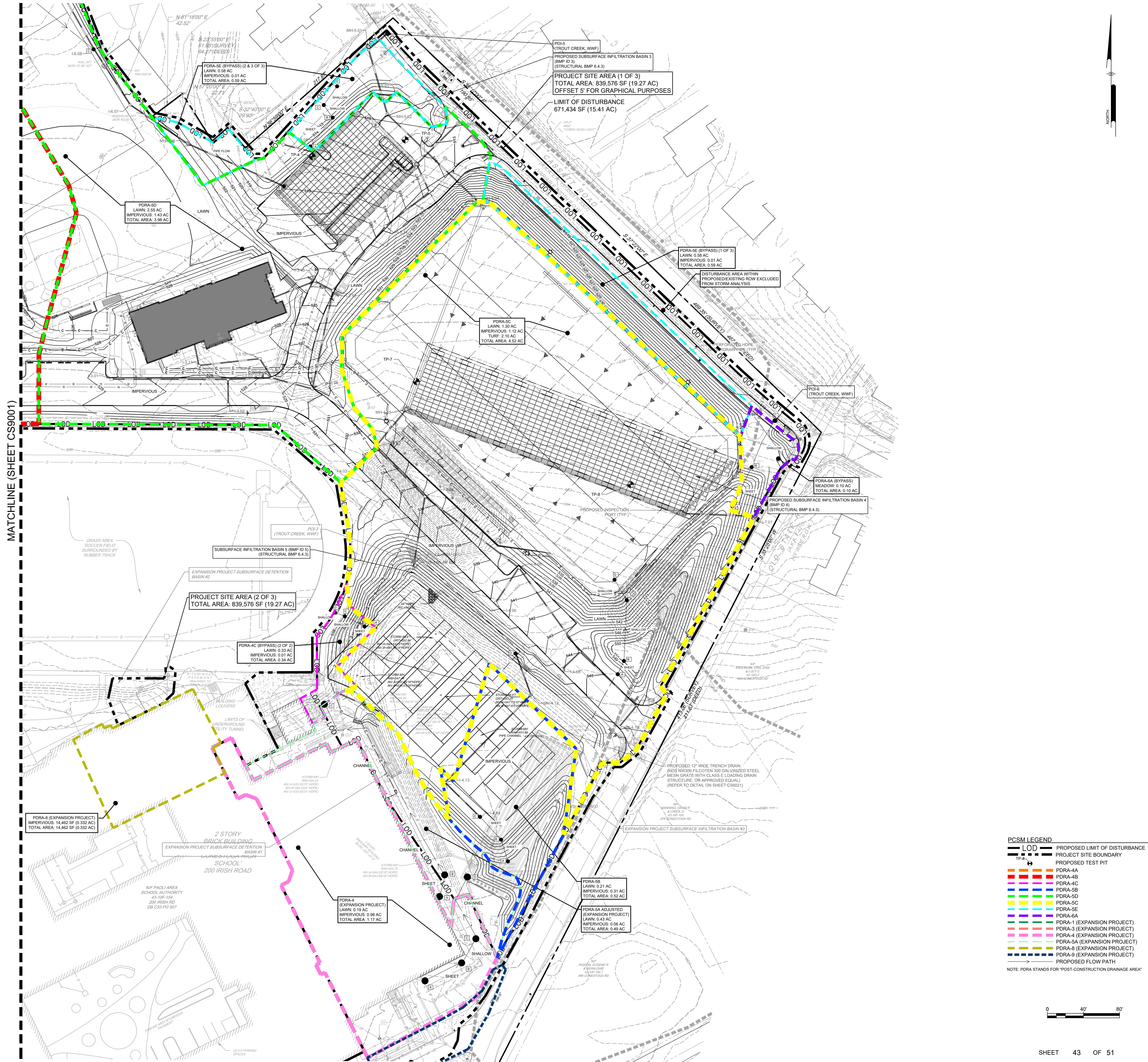
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ISC DISCIPLINE
/A

NOT FOR
CONSTRUCTION



MATCHLINE (SHEET CS9001)

PCSM LEGEND

	PROPOSED LIMIT OF DISTURBANCE
	PROJECT SITE BOUNDARY
	PROPOSED TEST PIT
	PDRA-4A
	PDRA-4B
	PDRA-4C
	PDRA-5B
	PDRA-5D
	PDRA-5C
	PDRA-5E
	PDRA-6A
	PDRA-1 (EXPANSION PROJECT)
	PDRA-3 (EXPANSION PROJECT)
	PDRA-4 (EXPANSION PROJECT)
	PDRA-5A (EXPANSION PROJECT)
	PDRA-8 (EXPANSION PROJECT)
	PDRA-9 (EXPANSION PROJECT)
	PROPOSED FLOW PATH

NOTE: PDRA STANDS FOR "POST-CONSTRUCTION DRAINAGE AREA"

ALL DOCUMENTS PREPARED BY PENNINI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNINI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNINI ASSOCIATE. OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNINI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

	DATE	ISSUED FOR
	03/16/2023	LAND DEVELOPMENT SUBMISSION
1	05/18/2023	REVISED PER TWP COMMENTS
2	06/14/2023	REVISED PER CCCD COMMENTS
3	07/20/2023	REVISED PER TWP REVIEW
4	09/26/2023	REV. PER TWP & NPOES REVIEW
5	09/29/2023	REVISED PER SSM REVIEW
6	01/17/2024	ISSUED FOR FINAL SUBMISSION
7	03/18/2024	BID ISSUE

SHEET TITLE _____

PCSM PLAN

DRAWING NUMBER _____

CS9002

SHEET 43 OF 51

CALL BEFORE YOU DIG
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA

PA. ACT 287 OF 1974 REQUIRES THREE WORKING DAYS
NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR
BLAST PENNSYLVANIA ONE-CALL SYSTEM, INC.
SERIAL NUMBER(S): 20223192994



\\Account\HESAX\HESAX2\06 - TESD - Nursery Property Development\DESIGN_ SHEETS\CS6032.dwg PLOTTED: 3/19/2024 5:51 PM, BY: Shawn Lewis PLOTSTYLE: PinnacolNCS.plt PROJECT STATUS: --

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019

HSA
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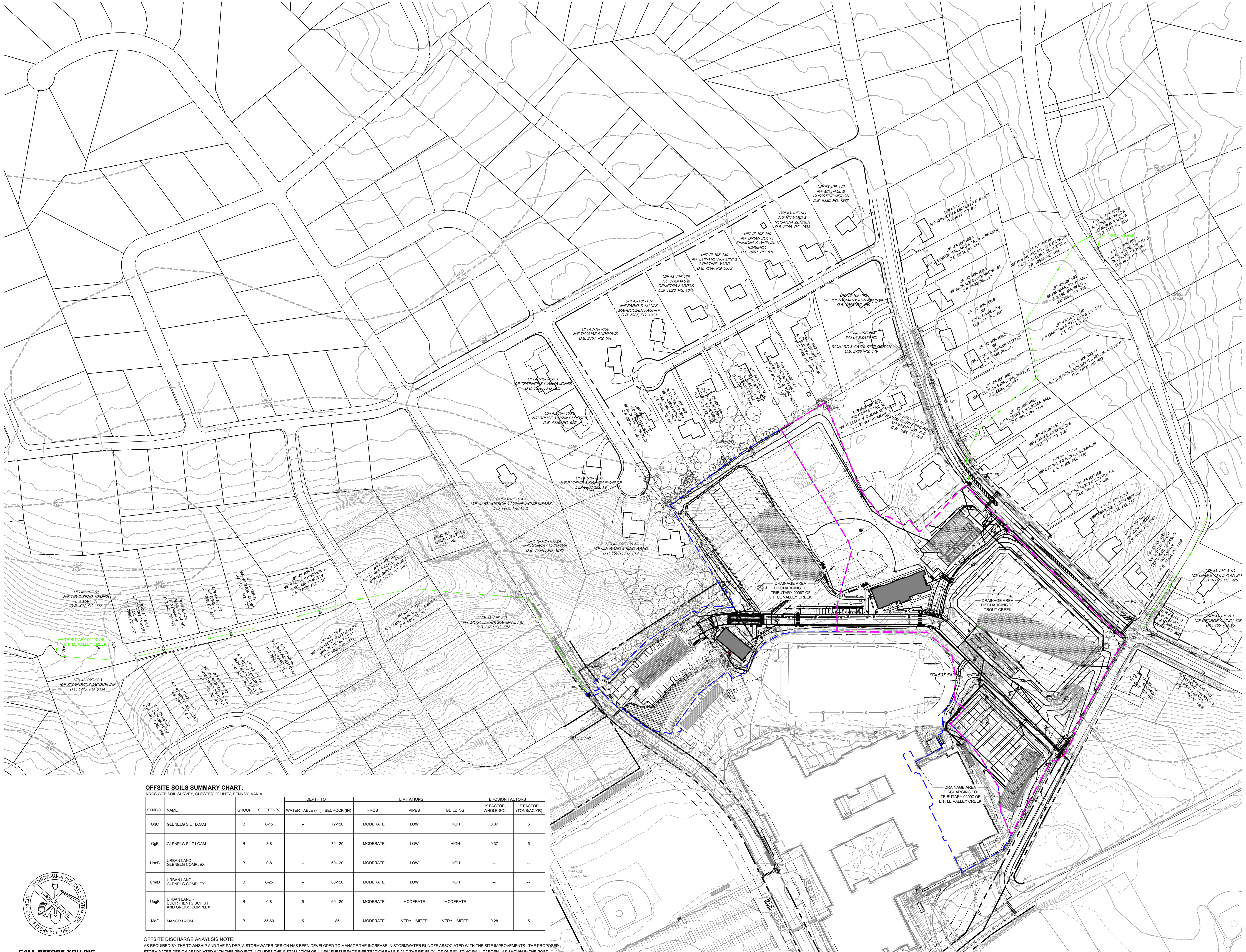
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7	03/18/2024	BID ISSUE

SHEET TITLE

E&S AND PCSM OFFSITE
DISCHARGE MAP

DRAWING NUMBER

CS9201



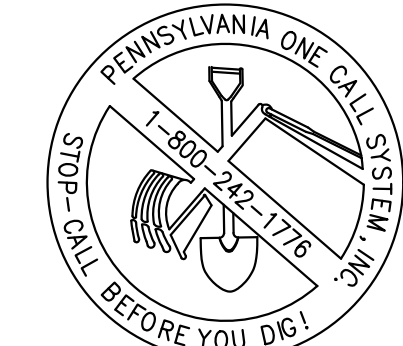
OFFSITE SOILS SUMMARY CHART:

NRCS WEB SOIL SURVEY, CHESTER COUNTY, PENNSYLVANIA

SYMBOL	NAME	GROUP	SLOPES (%)	DEPTH TO		LIMITATIONS			EROSION FACTORS	
				WATER TABLE (FT)	BEDROCK (IN)	FROST	PIPES	BUILDING	K FACTOR, WHOLE SOIL	T FACTOR (TONS/AC/YR)
GgC	GLENELG SILT LOAM	B	8-15	--	72-120	MODERATE	LOW	HIGH	0.37	5
GgB	GLENELG SILT LOAM	B	3-8	--	72-120	MODERATE	LOW	HIGH	0.37	5
UmB	URBAN LAND - GLENELG COMPLEX	B	0-8	--	60-120	MODERATE	LOW	HIGH	--	--
UmD	URBAN LAND - GLENELG COMPLEX	B	8-25	--	60-120	MODERATE	LOW	HIGH	--	--
UuB	URBAN LAND - JOORTHENT'S SCHIST AND GNEISS COMPLEX	B	0-8	5	60-120	MODERATE	MODERATE	MODERATE	--	--
MaF	MANOR LAOM	B	35-60	5	85	MODERATE	VERY LIMITED	VERY LIMITED	0.28	5

OFFSITE DISCHARGE ANALYSIS NOTE:

AS REQUIRED BY THE TOWNSHIP AND THE PA DEP, A STORMWATER DESIGN HAS BEEN DEVELOPED TO MANAGE THE INCREASE IN STORMWATER RUNOFF ASSOCIATED WITH THE SITE IMPROVEMENTS. THE PROPOSED STORMWATER DESIGN ASSOCIATED WITH THIS PROJECT INCLUDES THE INSTALLATION OF 4 NEW SUBSURFACE INFILTRATION BASINS AND THE REVISION OF ONE EXISTING RAIN GARDEN. AS SHOWN IN THE POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) REPORT, THESE SYSTEMS HAVE BEEN DESIGNED TO DECREASE THE PEAK RUNOFF RATES AT EACH POINT OF INTEREST (POI 4, 5 & 6) FOR STORM EVENTS UP TO AND INCLUDING THE 100-YEAR/24-HOUR STORM EVENT. ADDITIONALLY, THESE SYSTEMS HAVE BEEN DESIGNED TO STORE THE NET INCREASE IN RUNOFF VOLUME ASSOCIATED WITH THE 2-YEAR/24-HOUR STORM EVENT (REFER TO THE PCSM REPORT). THEREFORE, SINCE THE PEAK RUNOFF RATES ARE REDUCED AND THE 2-YEAR VOLUME IS REDUCED THERE WILL BE NO ACCELERATION IN EROSION TO THE DOWNSTREAM FLOW PATH.



CALL BEFORE YOU DIG

BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA

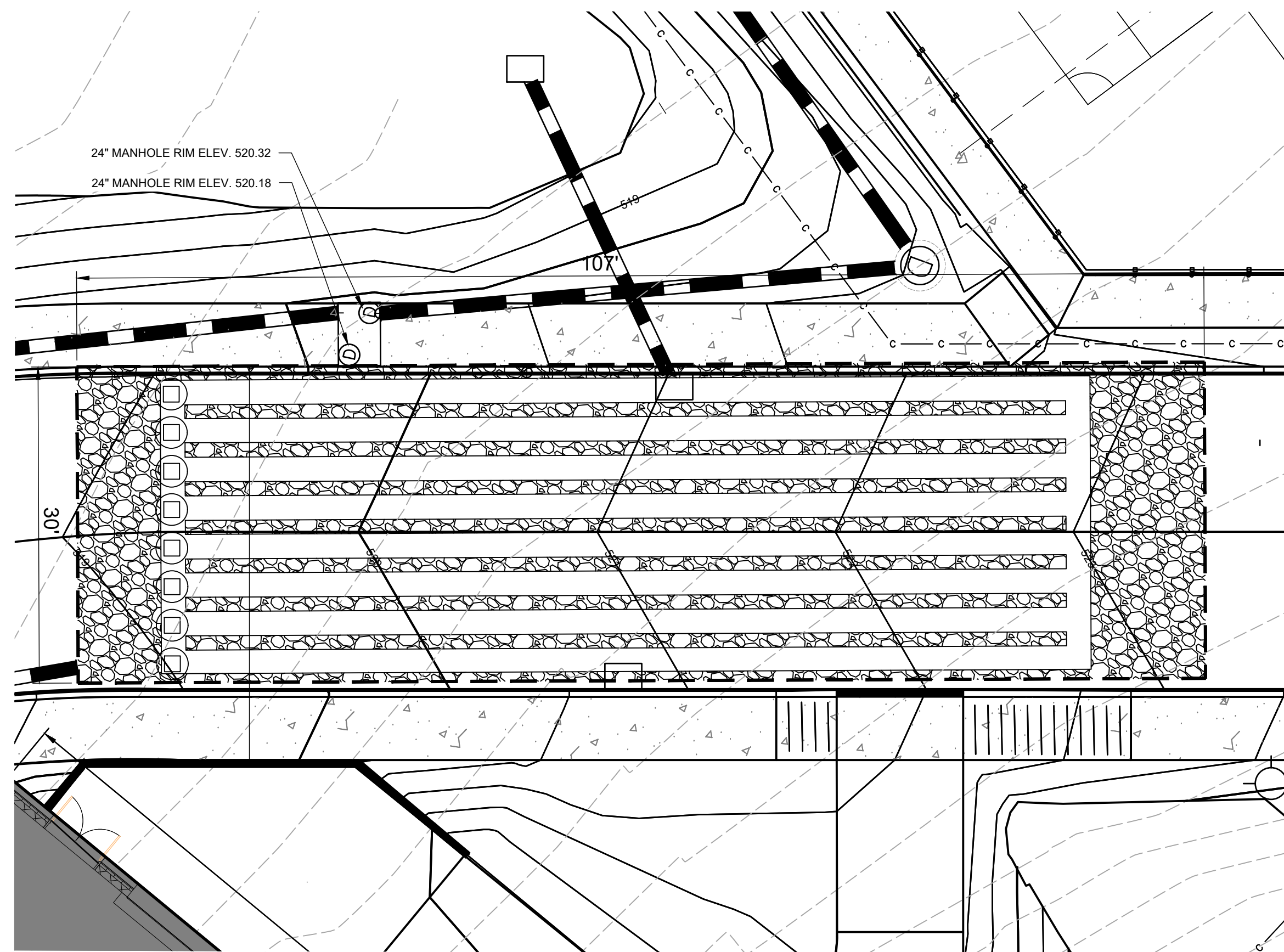
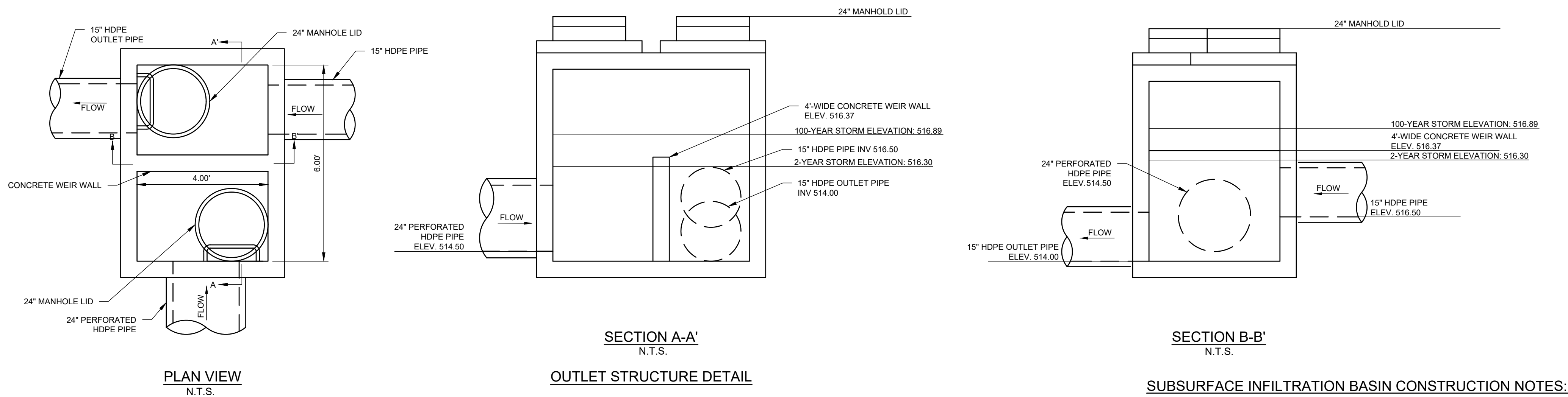
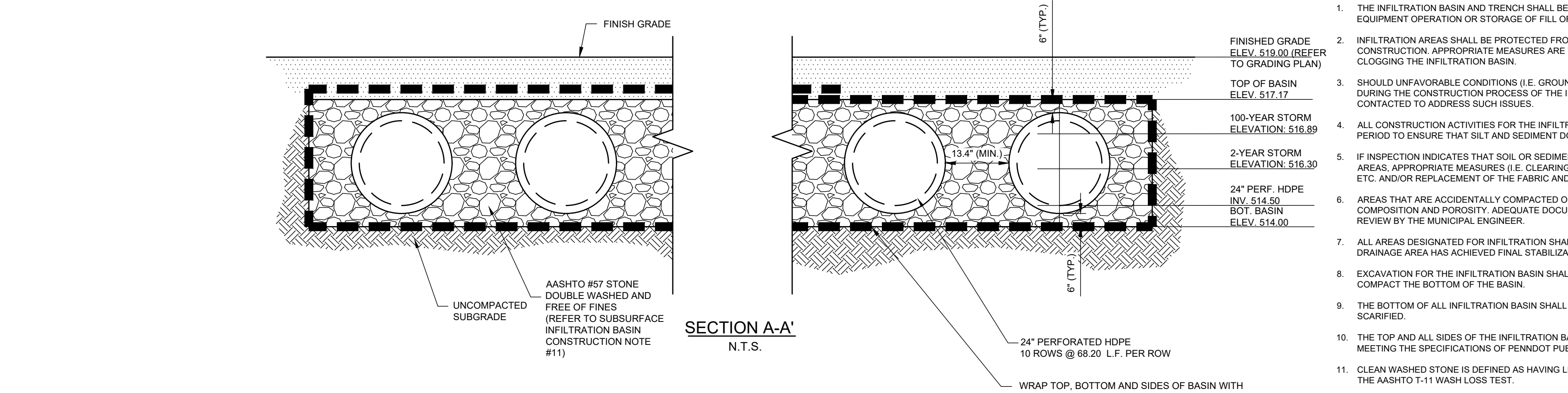
CALL 1-800-242-1776

PA ACT 287 OF 1974 REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR BLAST PENNSYLVANIA ONE-CALL SYSTEM, INC. SERIAL NUMBER(S): 20223192994

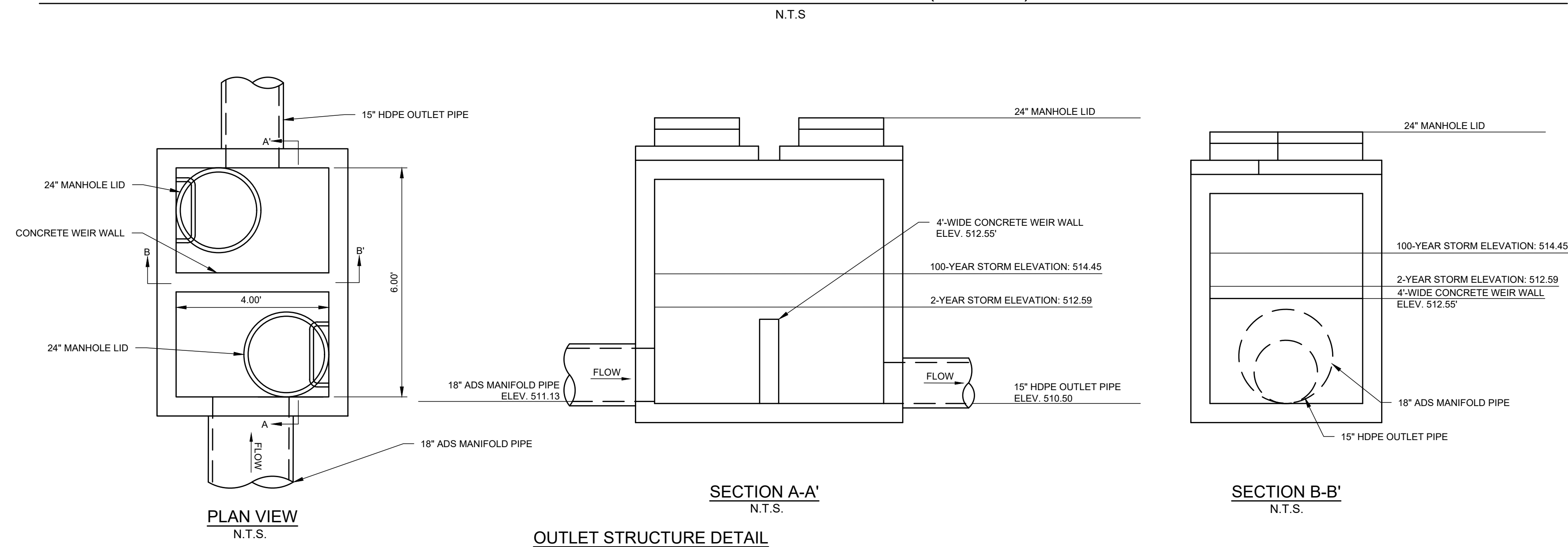
0 100' 200'

SHEET 44 OF 51

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE WILL BE COMPLETED IN COMPLIANCE WITH CHAPTER 102 REGULATIONS BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.		CONSTRUCTION WILL BEGIN UPON RECEIPT OF ALL REQUIRED PERMITS FROM THE TOWNSHIP, PENNDOT, PA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND THE CONSERVATION DISTRICT.		AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LAND OWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARED, AND A REPRESENTATIVE FROM THE CHESTER COUNTY CONSERVATION DISTRICT TO SCHEDULE A PRE-CONSTRUCTION MEETING.		AT LEAST 3 WORKING DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-1776 FOR BURIED UTILITY LOCATIONS.		BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED EAS CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE CHESTER COUNTY CONSERVATION DISTRICT.		THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 et seq. AND 287.1 et seq.		THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE CONSERVATION DISTRICT AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL PROPOSED SOILROCK SLOPE, AND BORROW AREAS ON OFFSITE.		UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY THAT WILL EXCEED 14 DAYS, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. (PLEASE NOTE THAT HYDROSEED IS NOT CONSIDERED STABILIZATION UNTIL IT GERMINATES, HOWEVER STRAW MULCH MUST BE APPLIED AT 30 TONS PER ACRE.		AS SOON AS SLOPES, CHANNELS, DITCHES AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.		1. PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH ALL NOTES ON THE APPROVED EROSION & SEDIMENT POLLUTION CONTROL PLANS.		2. PRIOR TO PROCEEDING WITH CONSTRUCTION, CONFIRM THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES. MAINTAIN AND PROTECT ALL EXISTING UTILITIES TO REMAIN AT ALL TIMES.		3. INSTALL ROCK CONSTRUCTION ENTRANCES AT THE LOCATION SHOWN ON THE APPROVED PLAN, ALL CONSTRUCTION VEHICLES SHALL ENTER AND/OR EXIT THE SITE THROUGH THIS ENTRANCE DURING CONSTRUCTION.		4. DEDICATE LIMIT OF DISTURBANCE AS SHOWN ON THE APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLANS AND PROTECT THE CONSTRUCTION SITE FROM UNAUTHORIZED PEDESTRIAN AND VEHICULAR ACCESS BY INSTALLING ORANGE CONSTRUCTION FENCE WHERE APPLICABLE.		5. INSTALL COMPOST FILTER SOCKS AT LOCATIONS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. INSTALL SUPER SILT FENCE AROUND THE PERIMETER OF THIS PROJECT LIMIT OF DISTURBANCE AS SHOWN ON PLAN. THE COMPOST FILTER SOCKS AND SUPER SILT FENCE SHALL BE INSTALLED BY AN APPROVED CONTRACTOR FAMILIAR WITH THE INSTALLATION PROCEDURES. CONTRACTORS SHALL INSPECT THE COMPOST FILTER SOCKS ON A WEEKLY BASIS AND AFTER EVERY RUNOFF EVENT. NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY AND ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN REACHING HALF THE HEIGHT OF THE COMPOST FILTER SOCKS.		6. INSTALL TREE PROTECTION AS INDICATED ON THE PLANS.		7. CURRENTLY, CRITICAL STAGE: CONSTRUCTION OF SEDIMENT TRAP 1		A. CLEAR AND GRUB AREA OF PROPOSED SEDIMENT TRAP. STOCKPILE TOPSOIL IN AREA INDICATED ON THE PLAN.		B. GRADE SEDIMENT TRAP		C. INSTALL SKIMMER WITH STONE LANDING BERM AND TEMPORARY RISER EXTENSION IN SEDIMENT TRAP		D. INSTALL PROPOSED BAFLES AND CLEAN OUT STAKES ACCORDING TO DETAILS ON PLANS.		E. INSTALL TEMPORARY OUTLET STRUCTURE		8. INSTALL MH-5.01 TO EXISTING STORM SEWER ON CASSATT ROAD. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. INSTALL TEMPORARY PIPE TO CONVEY WATER FROM SEDIMENT TRAP 1 TO MH-5.01.		10. INSTALL CHANNEL 1 TO ENSURE POSITIVE FLOW TO SEDIMENT TRAP 1.		11. INSTALL THE TRENCH DRAIN LOCATED WITHIN THE EXISTING LOWE PARKING LOT ADJACENT TO IRISH ROAD AND WEST OF THE PROPOSED GROUNDS AND FIELD BUILDING.		WEST SIDE STAGING		1. CLEAR AND GRUB TURF FIELD 2, PRACTICE SOCCER AND SOFTBALL FIELD AREA.		2. CONTRACTOR TO MOVE SOIL FROM EAST SIDE TO WEST SIDE.		3. CONSTRUCT SUBSURFACE INFILTRATION BASIN 2 (BMP ID 2) ACCORDING TO THE SEQUENCE ON THIS SHEET.		4. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		5. CONTRACTOR TO BUILD SOFT BALL FIELD.		6. CONCURRENTLY, CONSTRUCT RETAINING WALL #1 AND #2		7. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 1 AND SUBSURFACE INFILTRATION BASIN 2. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		8. CLEAR AND GRUB AREA FOR PROPOSED ROAD ON THE EAST SIDE. STRIP AND STORE TOPSOIL IN AREAS NOTED ON THE APPROVED PLANS.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 1 (BMP ID 1) ACCORDING TO THE SEQUENCE ON THIS SHEET.		10. CONCURRENTLY, CONSTRUCTION PROPOSED GROUNDS AND FIELDS BUILDING, AND PROPOSED ROAD.		11. CONCURRENTLY, BEGIN INSTALLATION OF SITE UTILITIES ON THE WEST SIDE OF THE PROPERTY. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED, AND STABILIZED WITHIN ONE WORKING DAY.		12. CONCURRENTLY, BUILD RETAINING WALLS #4 AND #5		13. ONCE BUILDING AND PARKING AREA IS INSTALLED, BEGIN CONSTRUCTION OF STORMWATER PIPE, AND PROPOSED STORM SEWER ROOF DRAINS. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		14. CONCURRENTLY, BEGIN INSTALLATION OF CONCRETE CURB, STONE SUBBASE AND BINDER COURSE.		15. INSTALL SIDEWALKS, FINAL GRADING, AND LANDSCAPING.		16. CRITICAL STAGE: ONCE AREA HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE PERMANENT NON-VEGETATIVE COVER SUFFICIENT TO RESIST ACCELERATED SURFACE TEMPORARY EROSION AND SEDIMENTATION BMPs, INCLUDING ALL COMPOST TRAPS, COMPOST FILTER SOCKS, AND INLET PROTECTION. ANY AREA DISTURBED DURING THE REMOVAL OF A TEMPORARY BMP SHALL BE IMMEDIATELY STABILIZED WITH SEEDING AND STRAW MULCH.		TENNIS COURT -EAST SIDE STAGING		1. CLEAR AND GRUB TENNIS COURT AREA.		2. ROUGH GRADE TENNIS COURT AREA.		3. CONCURRENTLY, BEGIN INSTALLATION OF SITE UTILITIES ON THE EAST SIDE OF THE PROPERTY. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED, AND STABILIZED WITHIN ONE WORKING DAY.		4. CONCURRENTLY, BUILD RETAINING WALL #8.		5. CRITICAL STAGE: CONCURRENTLY, CONVERT EXISTING RAIN GARDEN TO SUBSURFACE INFILTRATION BASIN #6 (BMP ID 66). REFER TO EXISTING RAIN GARDEN MODIFICATION CONSTRUCTION SEQUENCE ON THIS SHEET.		6. ROUGH GRADE PROPOSED DRIVE AREA.		7. ONCE ROAD AND PARKING AREA IS INSTALLED, BEGIN CONSTRUCTION OF STORMWATER PIPE, AND PROPOSED STORM SEWER ROOF DRAINS. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		8. CONCURRENTLY, BEGIN INSTALLATION OF CONCRETE CURB, STONE SUBBASE AND BINDER COURSE.		9. INSTALL SIDEWALKS, FINAL GRADING, AND LANDSCAPING.		10. CRITICAL STAGE: ONCE AREA HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE PERMANENT NON-VEGETATIVE COVER SUFFICIENT TO RESIST ACCELERATED SURFACE TEMPORARY EROSION AND SEDIMENTATION BMPs, INCLUDING ALL COMPOST TRAPS, COMPOST FILTER SOCKS, AND INLET PROTECTION. ANY AREA DISTURBED DURING THE REMOVAL OF A TEMPORARY BMP SHALL BE IMMEDIATELY STABILIZED WITH SEEDING AND STRAW MULCH.		TURF-EAST SIDE STAGING		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1		2. CONCURRENTLY CLEAR AND GRUB TURF FIELD 1.		3. CONTRACTOR TO MOVE SOIL FROM WEST SIDE TO EAST SIDE.		4. CONSTRUCT SUBSURFACE INFILTRATION BASIN 4 (BMP ID 4) ACCORDING TO THE SEQUENCE ON THIS SHEET.		5. CONTRACTOR TO STONE TURF FIELD AREA AND COVER IN MATTING.		6. CONTRACTOR TO BUILD ROAD.		7. CONCURRENTLY, CONSTRUCT RETAINING WALLS #6, #7 AND #9.		8. CONCURRENTLY, BUILD DOWNSTREAM PIPE FOR SUBSURFACE INFILTRATION BASIN 3 AND SUBSURFACE INFILTRATION BASIN 4. INSTALLATION SHOULD OCCUR FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL ONLY EXCAVATE TRENCH FOR THE AMOUNT THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.		9. CONSTRUCT SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3) ACCORDING TO THE SEQUENCE ON THIS SHEET.		1. CRITICAL STAGE: REMOVE TEMPORARY CHANNEL 1	
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PLAN VIEW
SCALE: 1"=10'

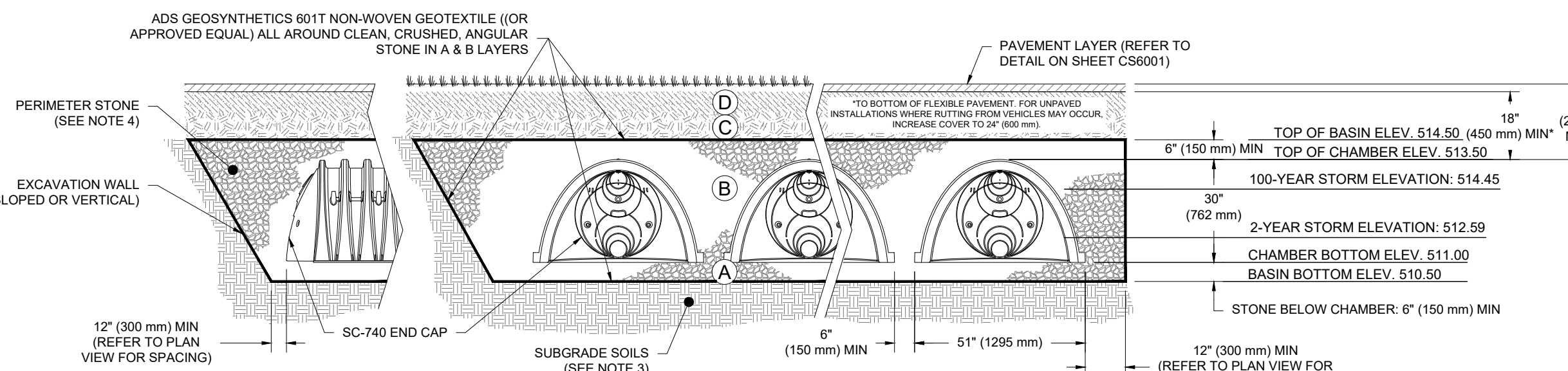
SUBSURFACE INFILTRATION BASIN 1 (BMP ID 1)



ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D. 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.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEERS PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C. 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.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2.4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	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. MAXIMUM GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B. EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A. FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:
1. THE 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, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH 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.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAMPING OR GRADING WITHOUT COMPACTION EQUIPMENT FOR SPECIAL LOAD DESIGNS. CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



SUBSURFACE INFILTRATION BASIN 3 (BMP ID 3)

SUBSURFACE INFILTRATION BASIN CONSTRUCTION NOTES:

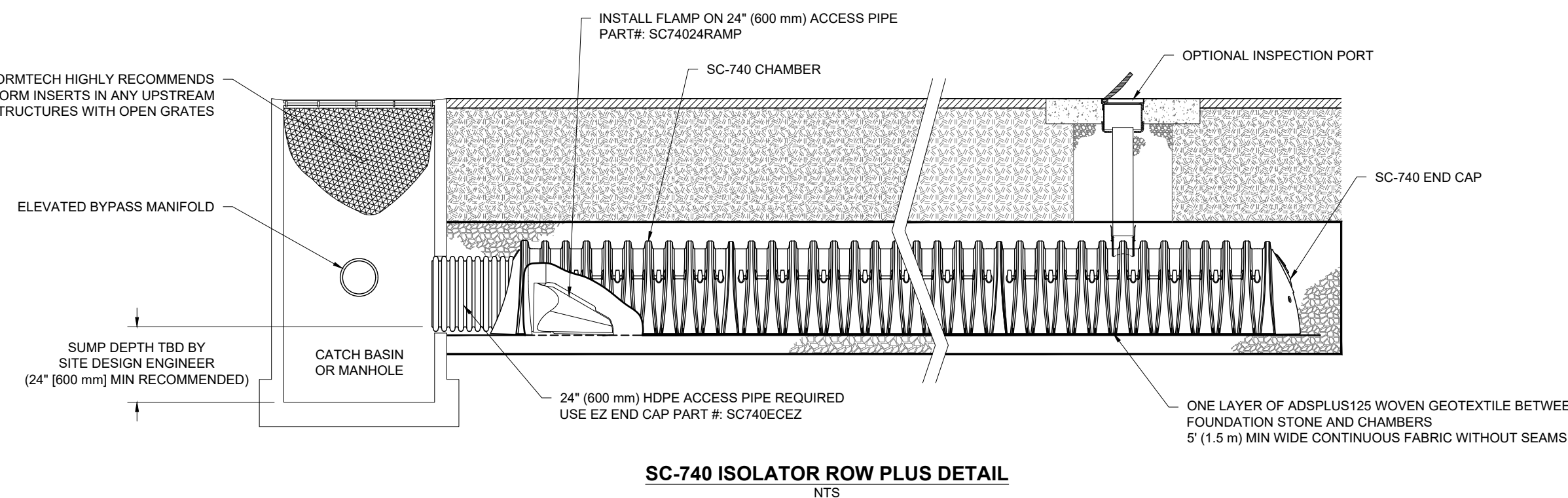
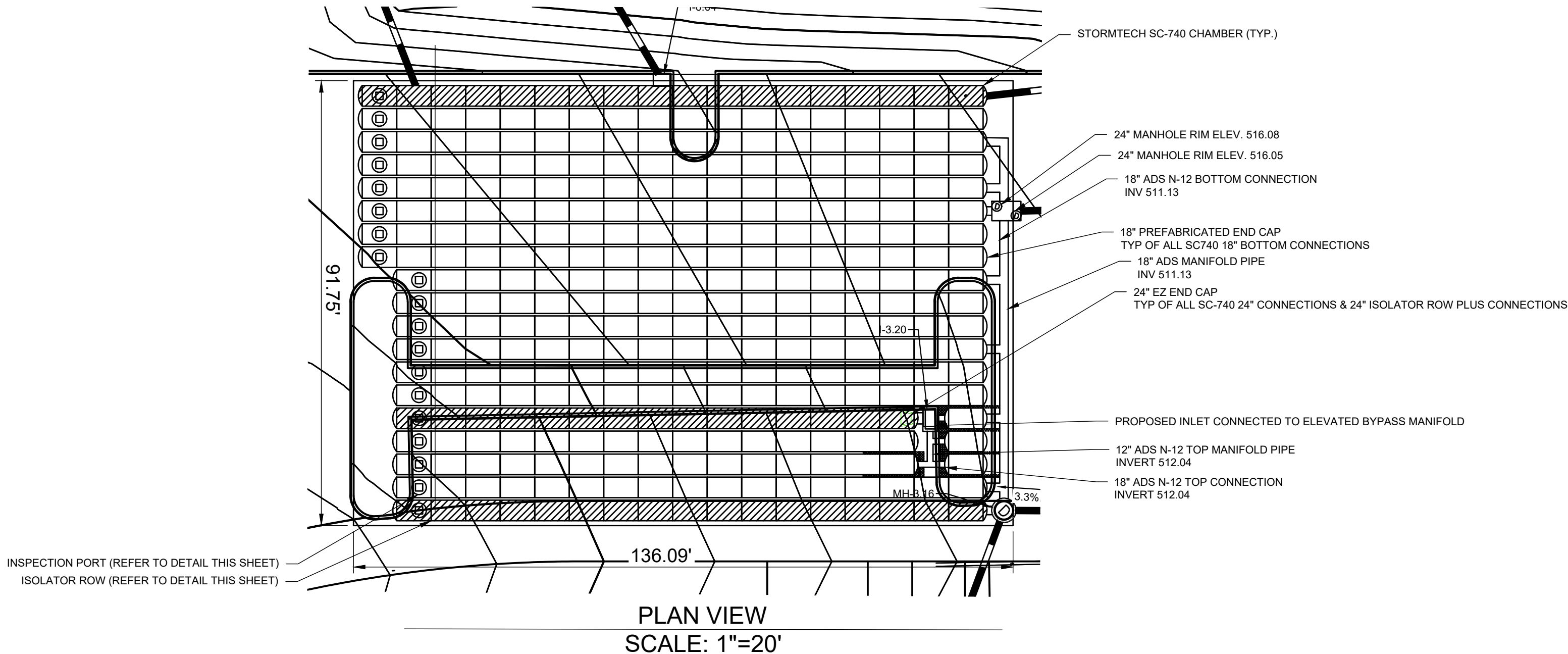
- THE INFILTRATION BASIN AND TRENCH SHALL BE PROTECTED FROM COMPACTION DUE TO HEAVY EQUIPMENT OPERATION OR STORAGE OF FILL OR CONSTRUCTION MATERIAL.
- INFILTRATION AREAS SHALL BE PROTECTED FROM SEDIMENTATION AT ALL TIMES DURING CONSTRUCTION. APPROPRIATE MEASURES ARE TO BE TAKEN IN THE EVENT OF SEDIMENT ENTERING AND CLOGGING THE INFILTRATION BASIN.
- SHOULD UNFAVORABLE CONDITIONS (I.E. GROUNDWATER AND/OR BEDROCK, ETC.) BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS OF THE INFILTRATION BASIN, THE DESIGN ENGINEER SHOULD BE CONTACTED TO ADDRESS SUCH ISSUES.
- ALL CONSTRUCTION ACTIVITIES FOR THE INFILTRATION BASIN SHOULD OCCUR WITHIN A SHORT TIME PERIOD TO ENSURE THAT SILT AND SEDIMENT DO NOT ENTER THE BASIN.
- IF INSPECTION INDICATES THAT SOIL OR SEDIMENT HAS ENTERED ANY OF THE INFILTRATION BASIN AREAS, APPROPRIATE MEASURES (I.E. CLEARING THE SOIL SEDIMENT FROM THE FABRIC, STONE BED, ETC. AND/OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
- AREAS THAT ARE ACCIDENTALLY COMPACTED OR GRADED SHALL BE REMEDIATED TO RESTORE SOIL COMPOSITION AND POROSITY. ADEQUATE DOCUMENTATION TO THIS EFFECT SHALL BE SUBMITTED FOR REVIEW BY THE MUNICIPAL ENGINEER.
- ALL AREAS DESIGNATED FOR INFILTRATION SHALL NOT RECEIVE RUNOFF UNTIL THE CONTRIBUTING DRAINAGE AREA HAS ACHIEVED FINAL STABILIZATION.
- EXCAVATION FOR THE INFILTRATION BASIN SHALL BE PERFORMED WITH EQUIPMENT THAT WILL NOT COMPACT THE BOTTOM OF THE BASIN.
- THE BOTTOM OF ALL INFILTRATION BASIN SHALL BE UNDISTURBED, UNCOMPACTED SUBGRADE, AND SCARIFIED.
- THE TOP AND ALL SIDES OF THE INFILTRATION BASIN SHALL BE COVERED WITH PERVIOUS GEOTEXTILE MEETING THE SPECIFICATIONS OF PENNDOT PUB 408, SECTION 1735, CLASS 1.
- CLEAN WASHED STONE IS DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOSS TEST.

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION POINTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXISTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIUM ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROW PLUS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
- B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS. RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

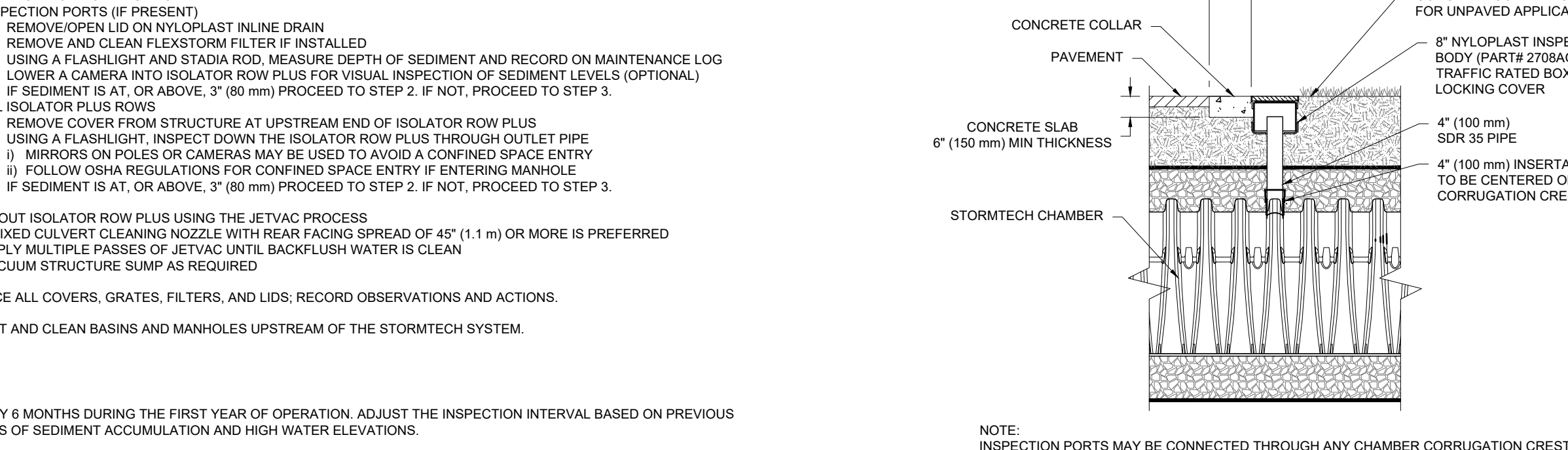
NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



SC-740 ISOLATOR ROW PLUS DETAIL

N.T.S.



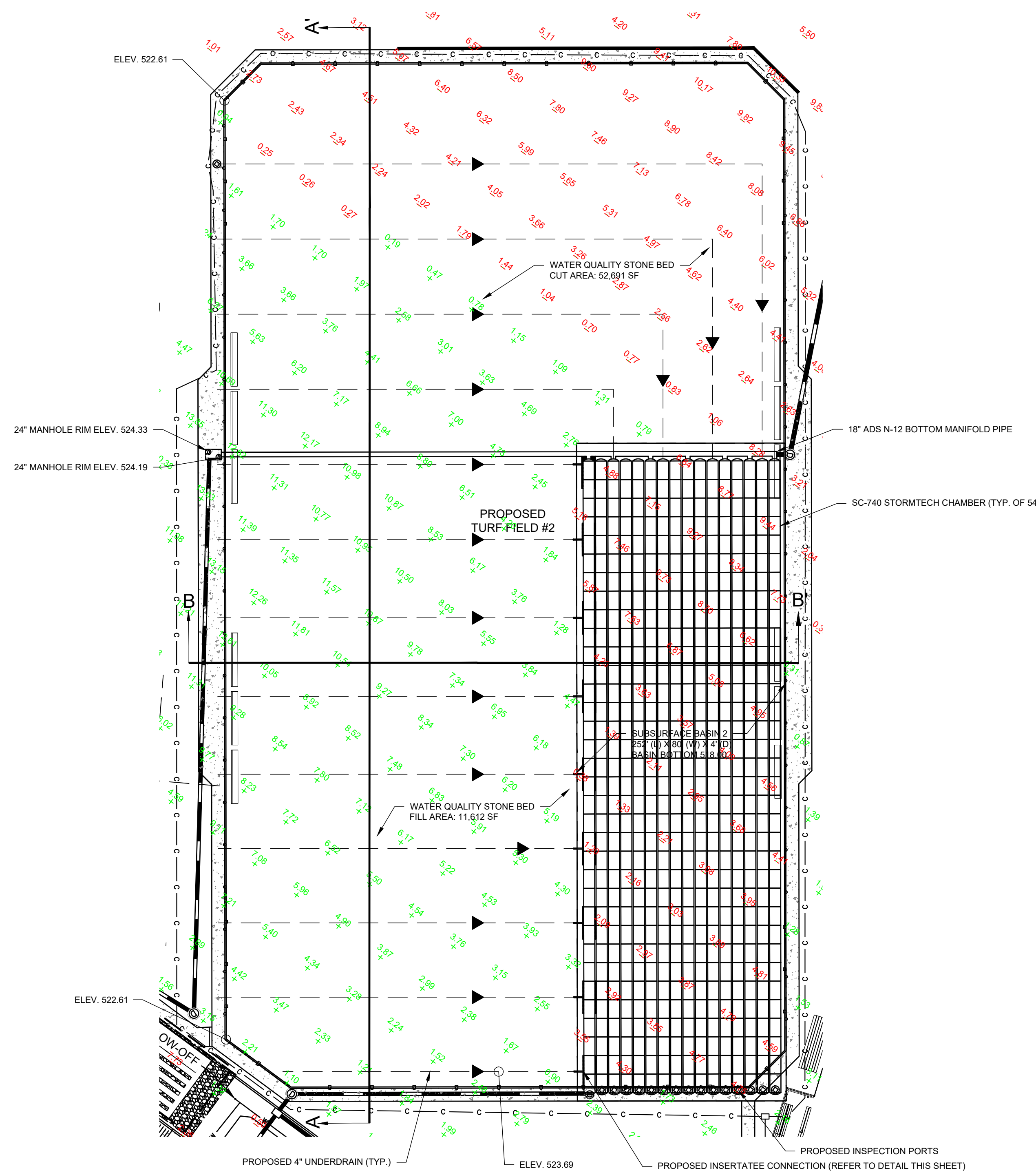
SC-740 ISOLATOR ROW PLUS DETAIL

N.T.S.

4" PVC INSPECTION PORT DETAIL

(SC SERIES CHAMBER)

N.T.S.

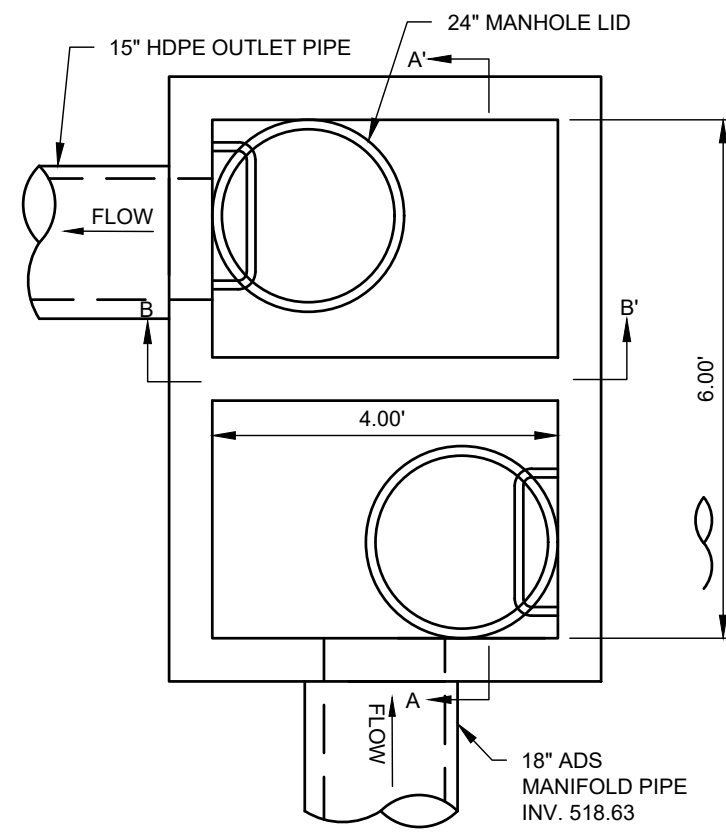


BASIN PLAN VIEW
SCALE: 1" = 30'

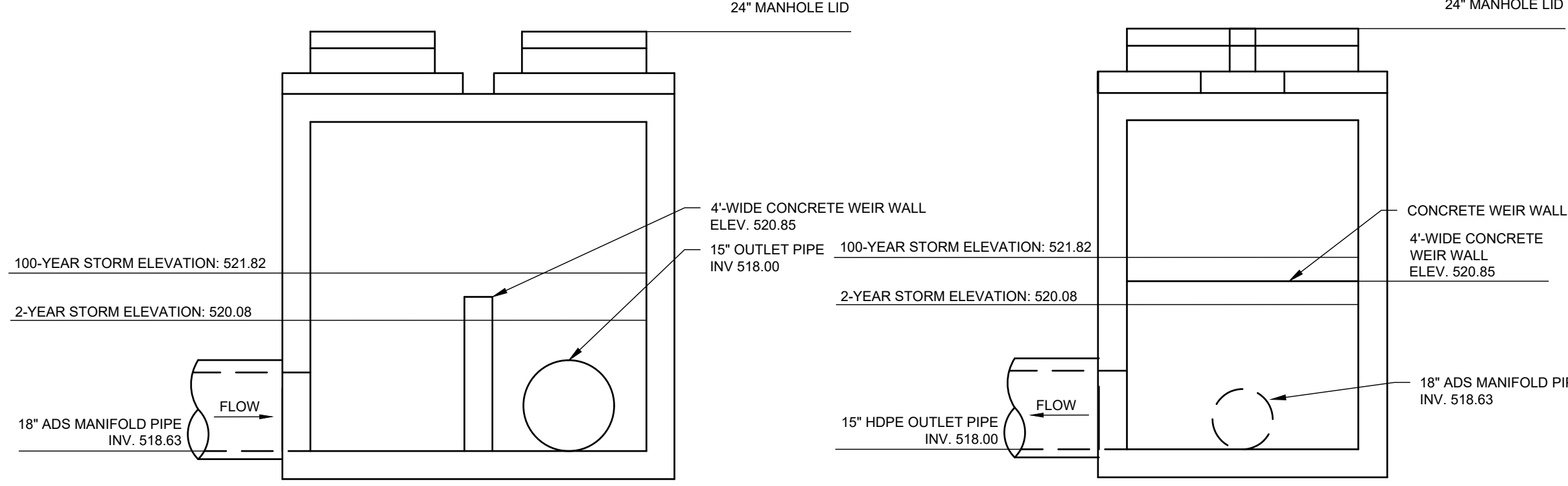
ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	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.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	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.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR AASHTO M43* 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 86, 9, 10	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).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE AASHTO M43* 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE AASHTO M43* 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:
1. THE 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, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTOR REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL. REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



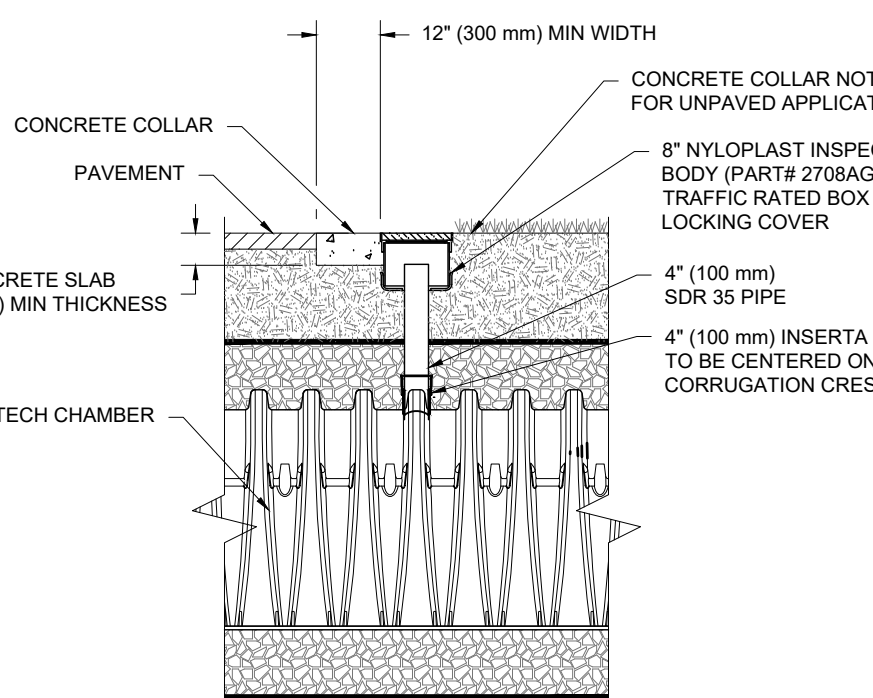
PLAN VIEW
N.T.S.



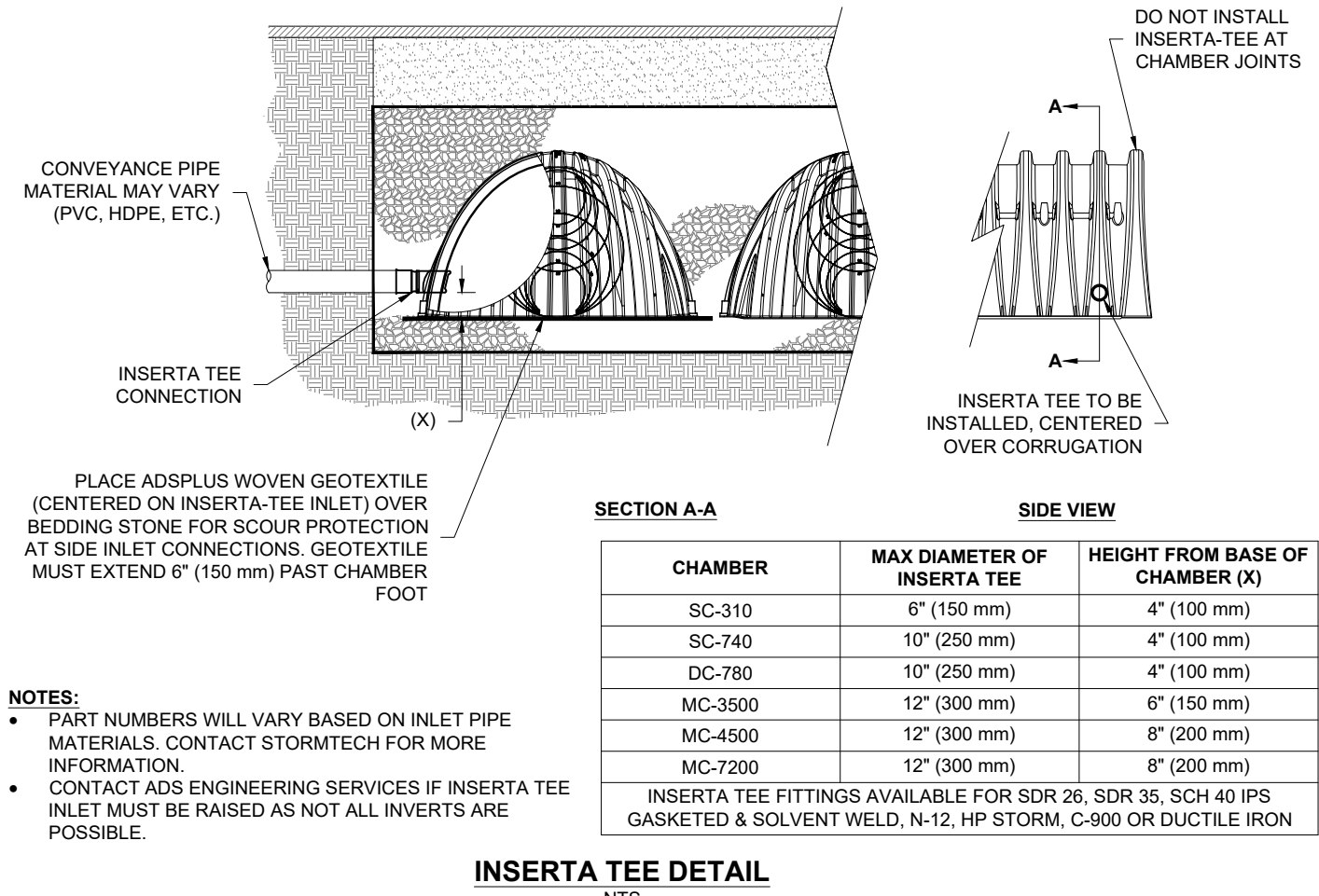
SECTION A-A'
N.T.S.

SECTION B-B'
N.T.S.

OUTLET STRUCTURE DETAIL



4" PVC INSPECTION PORT DETAIL
(SC SERIES CHAMBER)
N.T.S.



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (H)
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)
MC-7200	12" (300 mm)	8" (200 mm)

NOTES:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

INSERTA TEE DETAIL
N.T.S.

SUBSURFACE INFILTRATION BASIN CONSTRUCTION NOTES:

- THE INFILTRATION BASIN AND TRENCH SHALL BE PROTECTED FROM COMPACTION DUE TO HEAVY EQUIPMENT OPERATION OR STORAGE OF FILL OR CONSTRUCTION MATERIAL.
- INFILTRATION AREAS SHALL BE PROTECTED FROM SEDIMENTATION AT ALL TIMES DURING CONSTRUCTION. APPROPRIATE MEASURES ARE TO BE TAKEN IN THE EVENT OF SEDIMENT ENTERING AND CLOGGING THE INFILTRATION BASIN.
- SHOULD UNFAVORABLE CONDITIONS (I.E. GROUNDWATER AND/OR BEDROCK, ETC.) BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS OF THE INFILTRATION BASIN, THE DESIGN ENGINEER SHOULD BE CONTACTED TO ADDRESS SUCH ISSUES.
- ALL CONSTRUCTION ACTIVITIES FOR THE INFILTRATION BASIN SHOULD OCCUR WITHIN A SHORT TIME PERIOD TO ENSURE THAT SILT AND SEDIMENT DO NOT ENTER THE BASIN.
- IF INSPECTION INDICATES THAT SOIL OR SEDIMENT HAS ENTERED ANY OF THE INFILTRATION BASIN AREAS, APPROPRIATE MEASURES (I.E. CLEARING THE SOIL, SEDIMENT FROM THE FABRIC, STONE BED, ETC. AND/OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
- AREAS THAT ARE ACCIDENTALLY COMPACTED OR GRADED SHALL BE REMEDIATED TO RESTORE SOIL COMPOSITION AND POROSITY. ADEQUATE DOCUMENTATION TO THIS EFFECT SHALL BE SUBMITTED FOR REVIEW BY THE MUNICIPAL ENGINEER.
- ALL AREAS DESIGNATED FOR INFILTRATION SHALL NOT RECEIVE RUNOFF UNTIL THE CONTRIBUTING DRAINAGE AREA HAS ACHIEVED FINAL STABILIZATION.
- EXCAVATION FOR THE INFILTRATION BASIN SHALL BE PERFORMED WITH EQUIPMENT THAT WILL NOT COMPACT THE BOTTOM OF THE BASIN.
- THE BOTTOM OF ALL INFILTRATION BASIN SHALL BE UNDISTURBED, UNCOMPACTED SUBGRADE, AND SCARIFIED.
- THE TOP AND ALL SIDES OF THE INFILTRATION BASIN SHALL BE COVERED WITH PERVIOUS GEOTEXTILE MEETING THE SPECIFICATIONS OF PENNONTOP PUB-408, SECTION 1735, CLASS 1.
- CLEAN WASHED STONE IS DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOSS TEST.

SUBSURFACE BASIN 2 (BMP ID 2)

N.T.S.

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019

Heckendorn Shiles Architects

PROJECT TEAM

CLIENT
Tredyffrin/Eastown School District
940 West Valley Road, Suite 1700
Wayne, PA 19087
(610) 240-1900

ARCHITECTURAL
Heckendorn Shiles Architects
347 East Conestoga Road
Wayne, PA 19087
610-994-3500

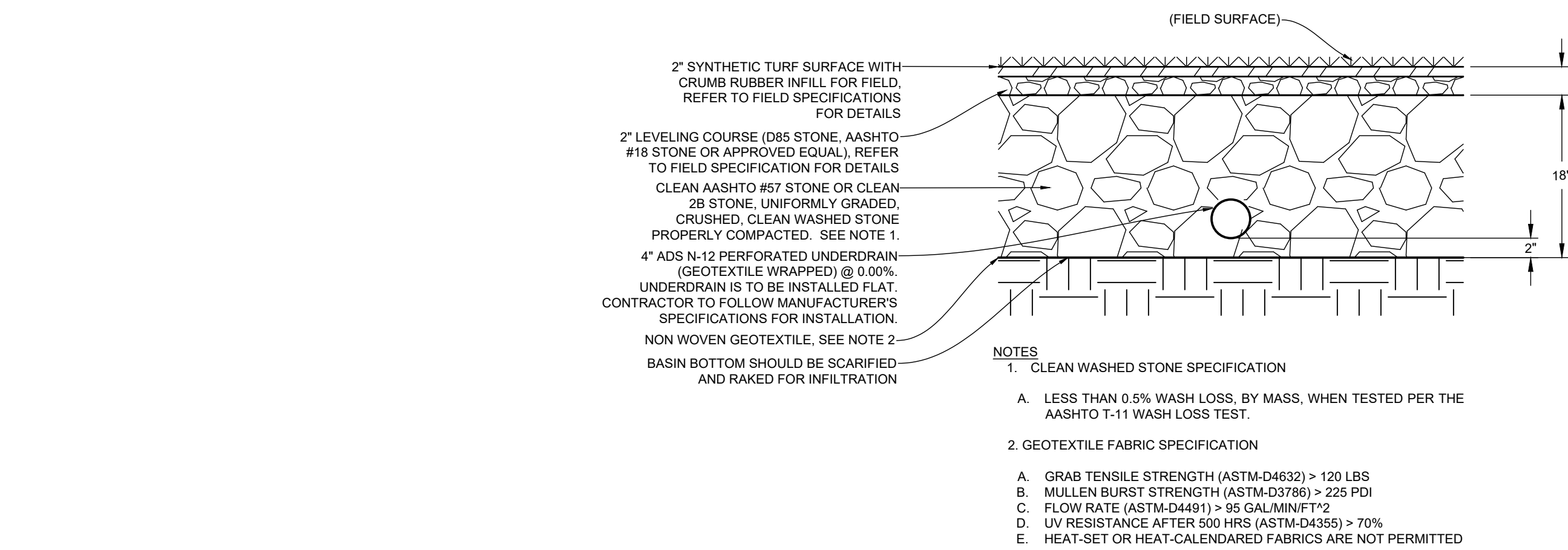
STRUCTURAL ENGINEER
N/A

MEPFP ENGINEER
Schiller and Hersh Associates, Inc.
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
(215) 886-8947

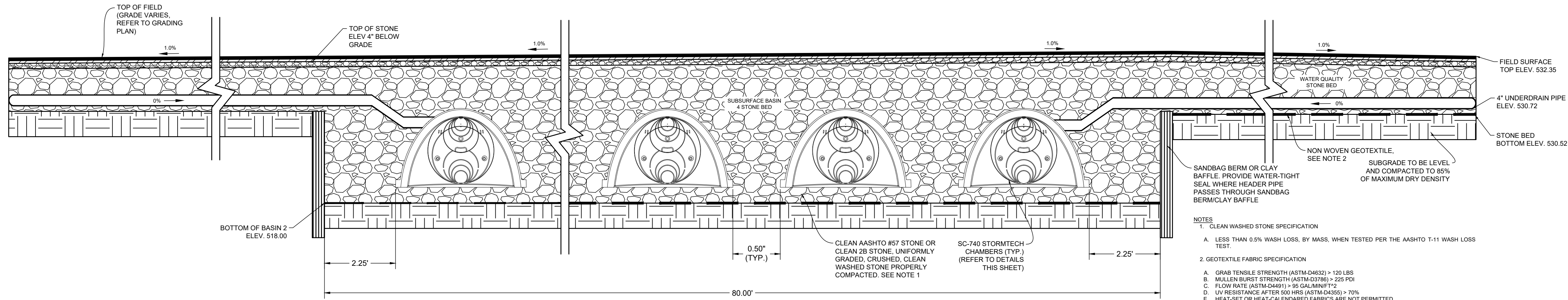
SITE / CIVIL
Pennoni Associates, Inc.
158 W Gay Street, Suite 300
West Chester, PA 19380
(610) 429-8907

MISC DISCIPLINE
N/A

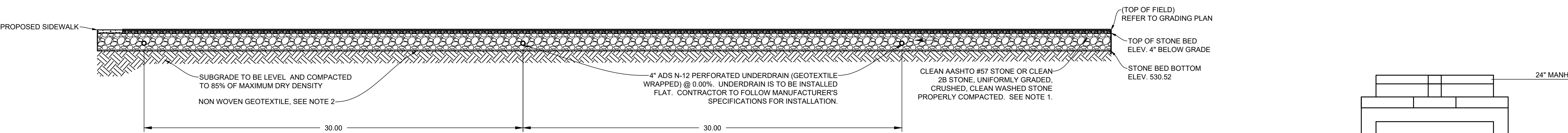
NOT FOR
CONSTRUCTION



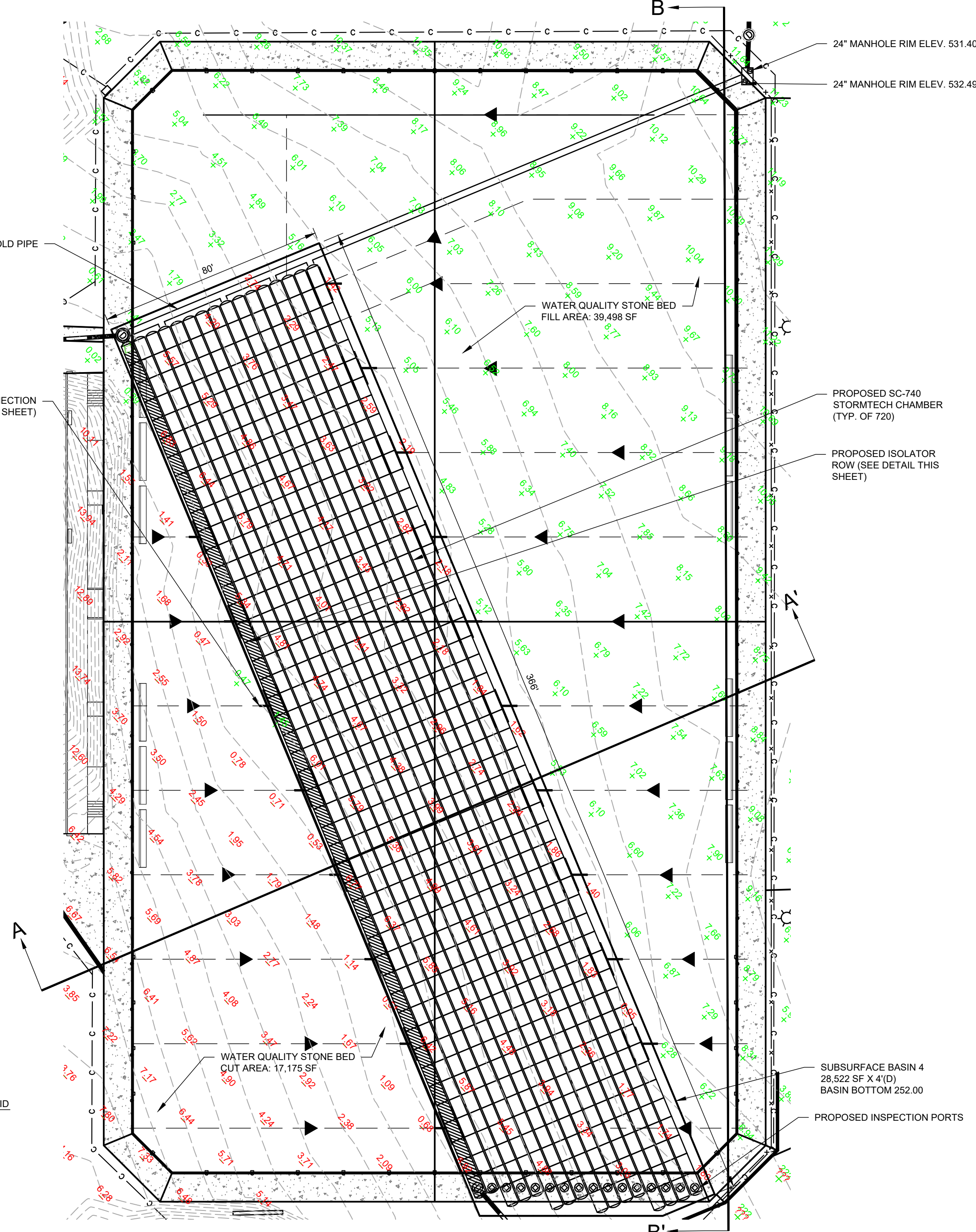
TURF SURFACE AND WATER QUALITY BED SECTION VIEW
N.T.S.



BASIN SECTION VIEW A-A'
N.T.S.



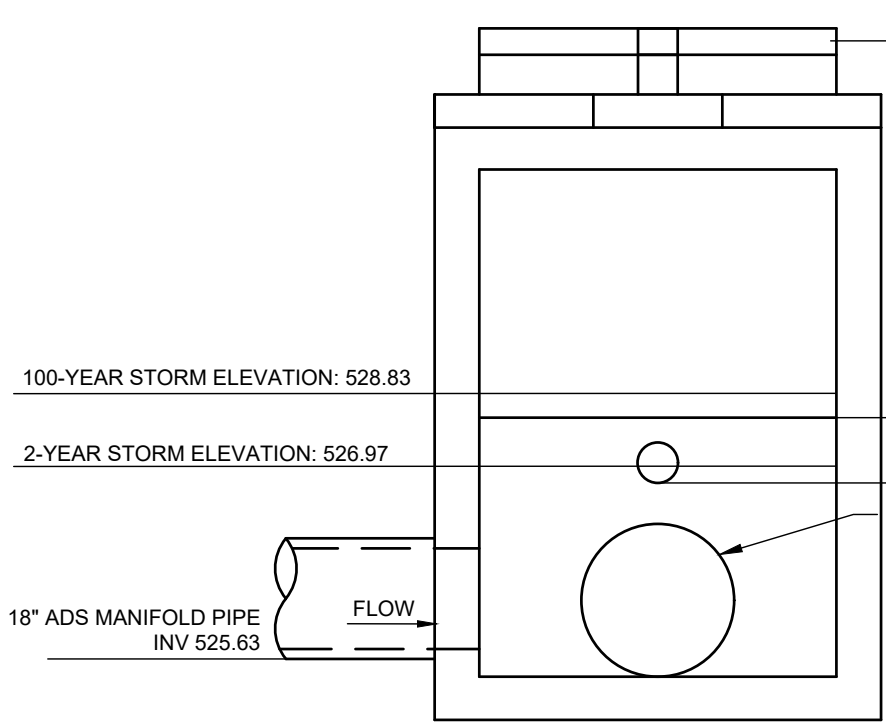
BASIN SECTION VIEW B-B'
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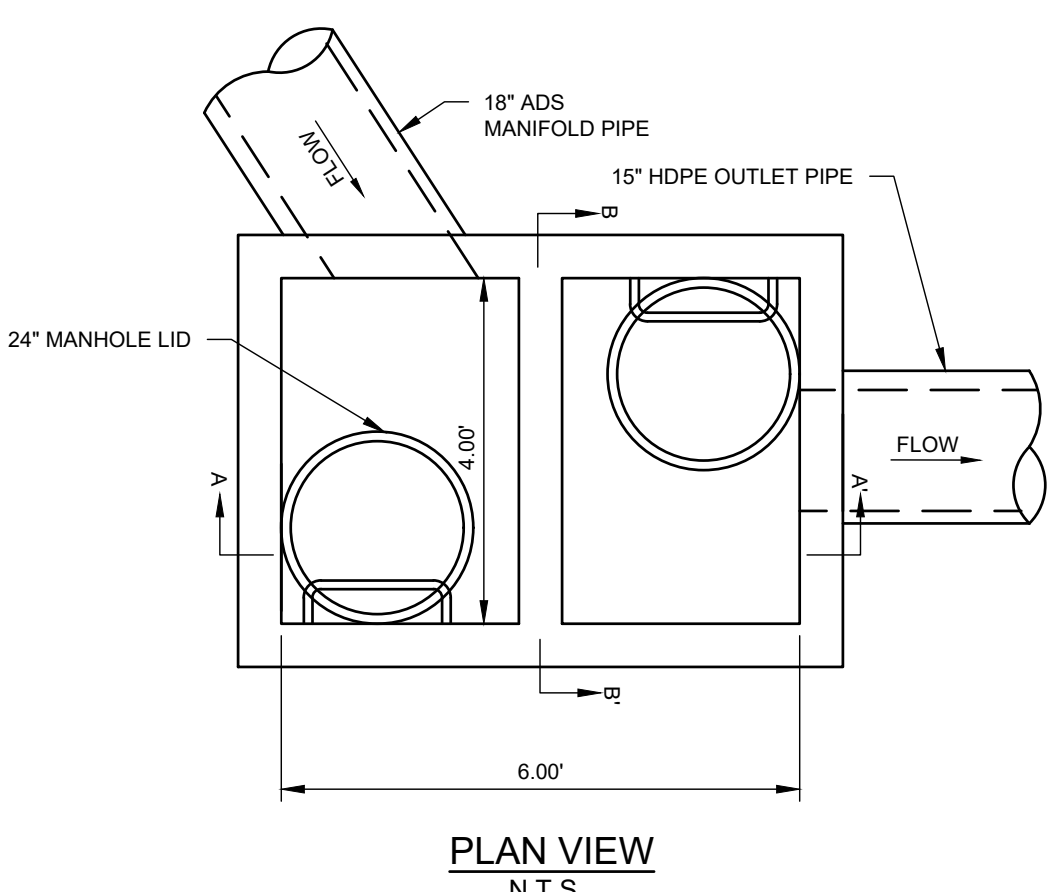
BASIN PLAN VIEW
SCALE: 1" = 30'

SUBSURFACE BASIN
CONSTRUCTION NOTES:

- SHOULD UNFAVORABLE CONDITIONS (I.E. GROUNDWATER AND/OR BEDROCK, ETC.) BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS OF THE DETENTION BASIN, THE DESIGN ENGINEER SHOULD BE CONTACTED TO ADDRESS SUCH ISSUES.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.

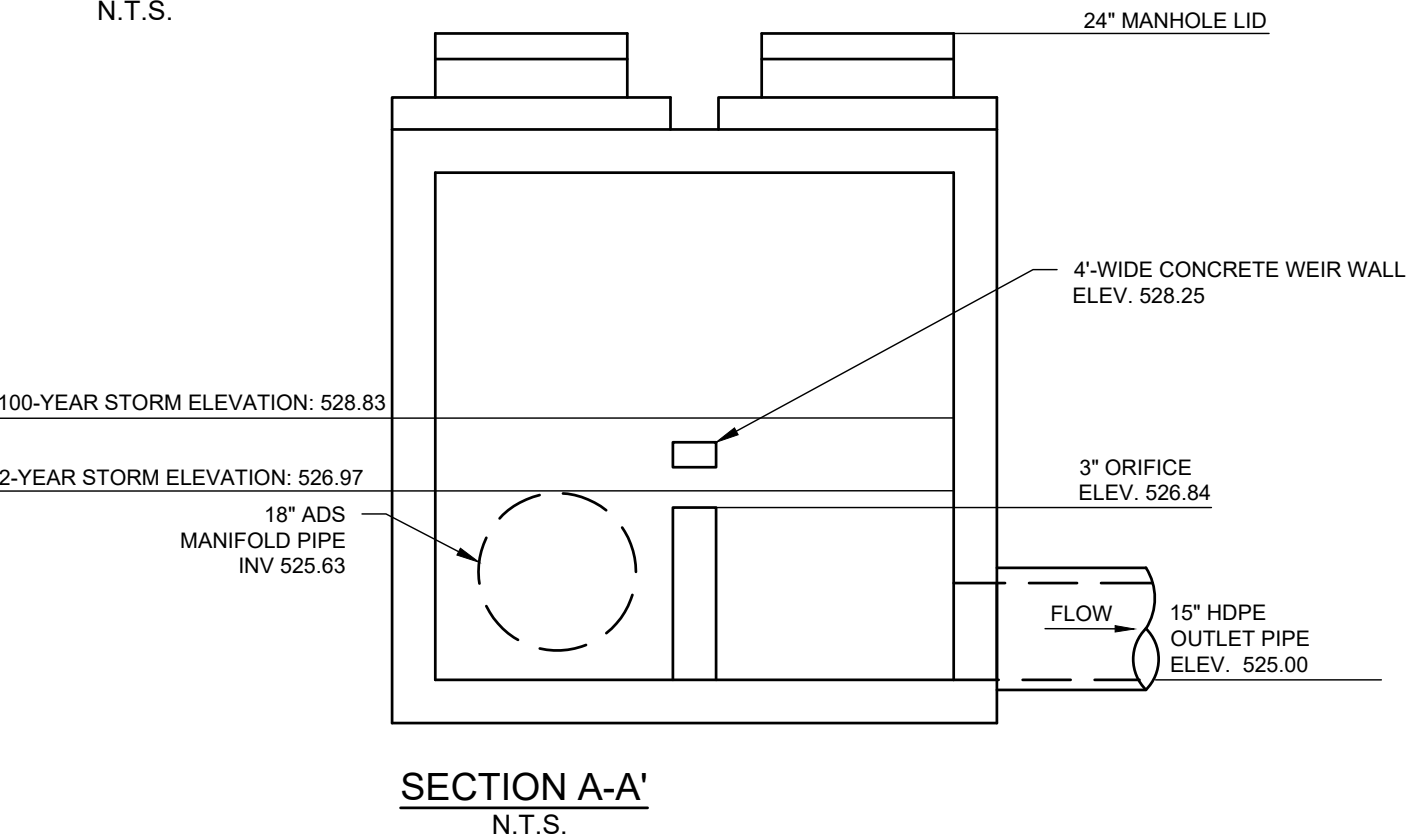


SECTION B-B'
N.T.S.

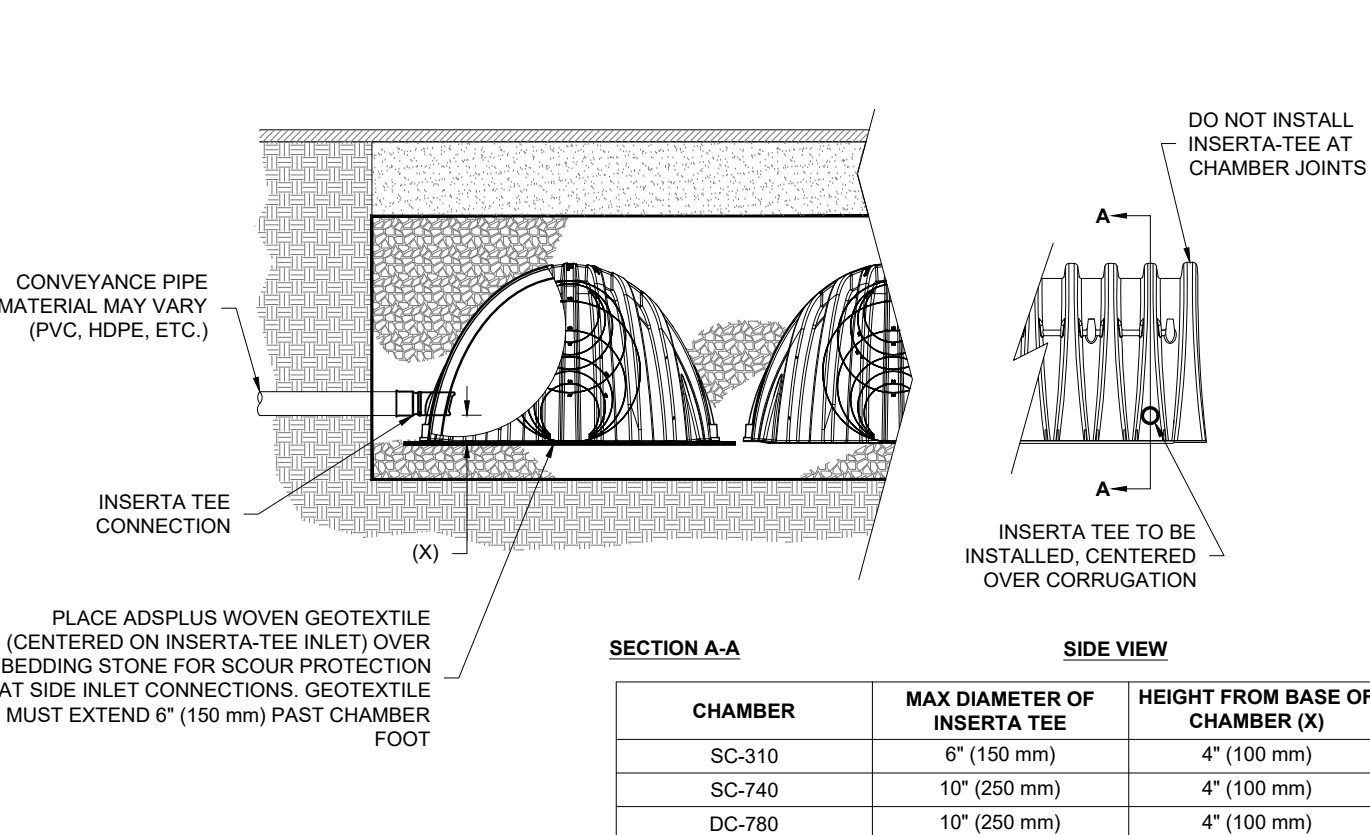


PLAN VIEW
N.T.S.

OUTLET STRUCTURE DETAIL



SECTION A-A'
N.T.S.

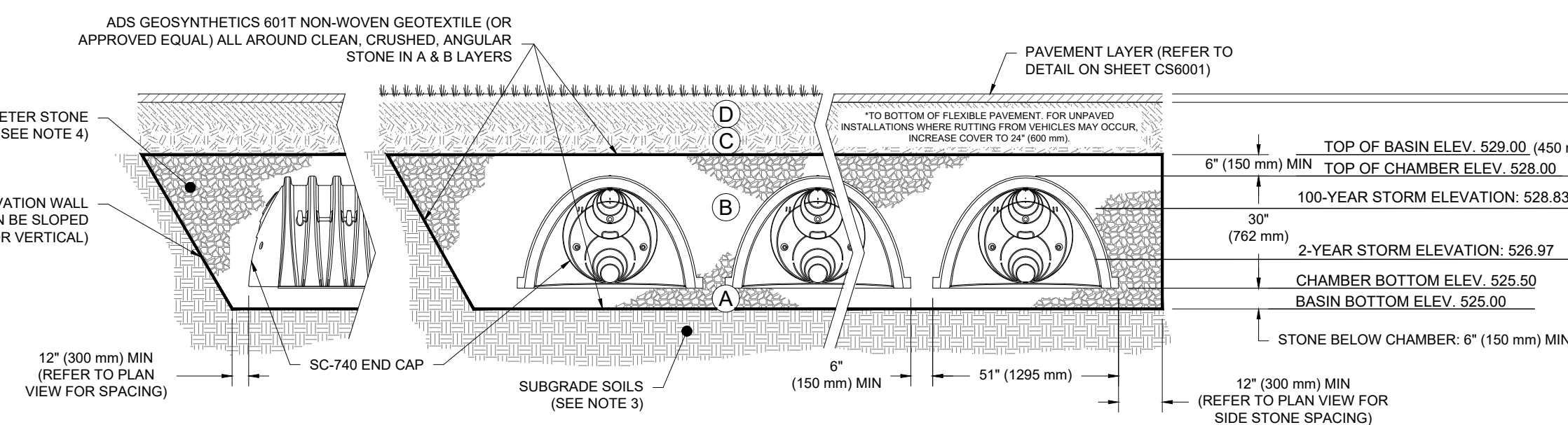


CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)

INSERTA TEE DETAIL
N.T.S.

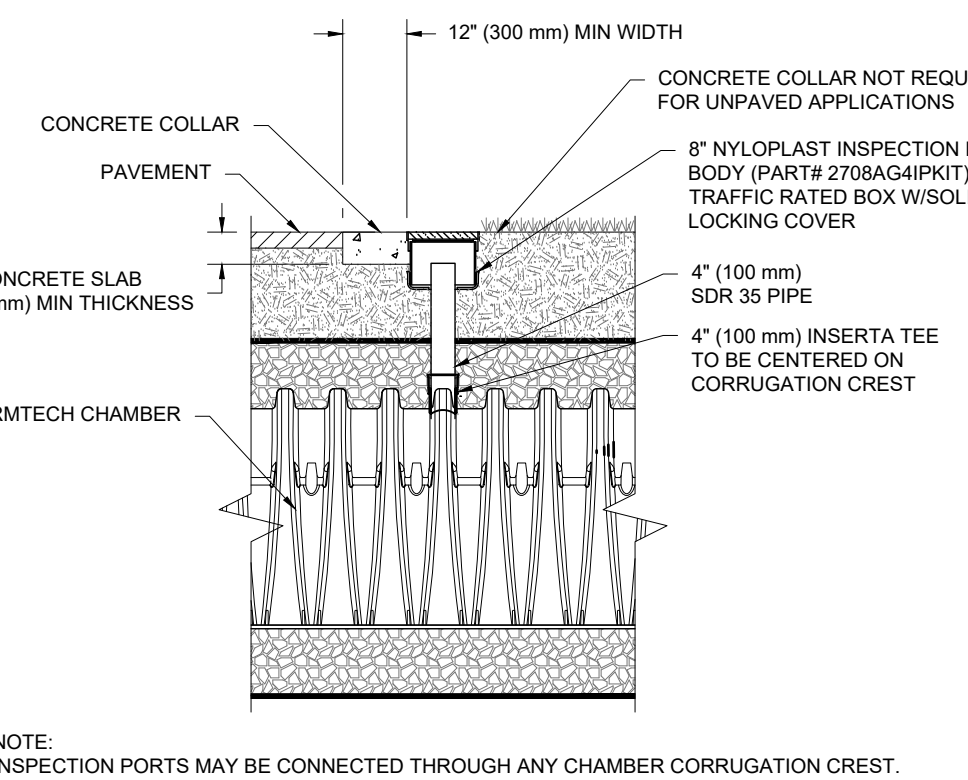
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE. ABOVE, NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	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.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR AASHTO M43 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	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).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A) LAYER TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE AASHTO M43 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT BOTTOM OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE AASHTO M43 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
- THE 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, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH 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.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

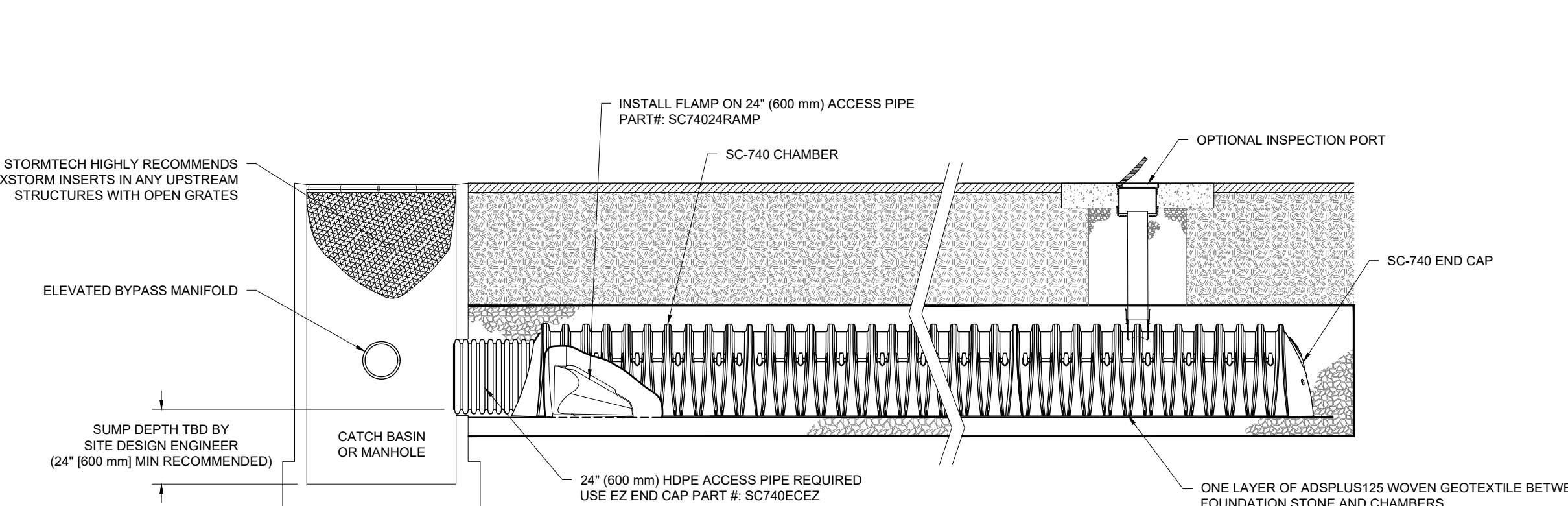


SUBSURFACE INFILTRATION BASIN CONSTRUCTION NOTES:

- THE INFILTRATION BASIN AND TRENCH SHALL BE PROTECTED FROM COMPACTION DUE TO HEAVY EQUIPMENT OPERATION OR STORAGE OF FILL OR CONSTRUCTION MATERIAL.
- INFILTRATION AREAS SHALL BE PROTECTED FROM SEDIMENTATION AT ALL TIMES DURING CONSTRUCTION. APPROPRIATE MEASURES ARE TO BE TAKEN IN THE EVENT OF SEDIMENT ENTERING AND CLOGGING THE INFILTRATION BASIN.
- SHOULD UNFAVORABLE CONDITIONS (I.E. GROUNDWATER AND/OR BEDROCK, ETC.) BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS OF THE INFILTRATION BASIN, THE DESIGN ENGINEER SHOULD BE CONTACTED TO ADDRESS SUCH ISSUES.
- ALL CONSTRUCTION ACTIVITIES FOR THE INFILTRATION BASIN SHOULD OCCUR WITHIN A SHORT TIME PERIOD TO ENSURE THAT SILT AND SEDIMENT DO NOT ENTER THE BASIN.
- IF INSPECTION INDICATES THAT SOIL OR SEDIMENT HAS ENTERED ANY OF THE INFILTRATION BASIN AREAS, APPROPRIATE MEASURES (I.E. CLEARING THE SOIL/SEDIMENT FROM THE FABRIC, STONE BED, ETC. AND/OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
- AREAS THAT ARE ACCIDENTALLY COMPACTED OR GRADED SHALL BE REMEDIATED TO RESTORE SOIL COMPOSITION AND HOMOGENEITY. ADEQUATE DOCUMENTATION TO THIS EFFECT SHALL BE SUBMITTED FOR REVIEW BY THE MUNICIPAL ENGINEER.
- ALL AREAS DESIGNATED FOR INFILTRATION BASIN SHALL NOT RECEIVE RUNOFF UNTIL THE CONTRIBUTING DRAINAGE AREA HAS ACHIEVED FINAL STABILIZATION.
- EXCAVATION FOR THE INFILTRATION BASIN SHALL BE PERFORMED WITH EQUIPMENT THAT WILL NOT COMPACT THE BOTTOM OF THE BASIN.
- THE BOTTOM OF ALL INFILTRATION BASIN SHALL BE UNDISTURBED, UNCOMPACTED SUBGRADE, AND SCARIFIED.
- THE TOP AND ALL SIDES OF THE INFILTRATION BASIN SHALL BE COVERED WITH PERVIOUS GEOTEXTILE MEETING THE SPECIFICATIONS OF PENNDOT PUB 408, SECTION 1735, CLASS 1.
- CLEAN WASHED STONE IS DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOSS TEST.



4" PVC INSPECTION PORT DETAIL
(SC SERIES CHAMBER)
N.T.S.



SC-740 ISOLATOR ROW PLUS DETAIL
N.T.S.

SUBSURFACE BASIN 4 (BMP ID 4)
N.T.S.

SHEET TITLE

PCSM DETAILS

DRAWING NUMBER

CS9504

PROJECT TEAM

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MISC DISCIPLINE
N/A

NOT FOR
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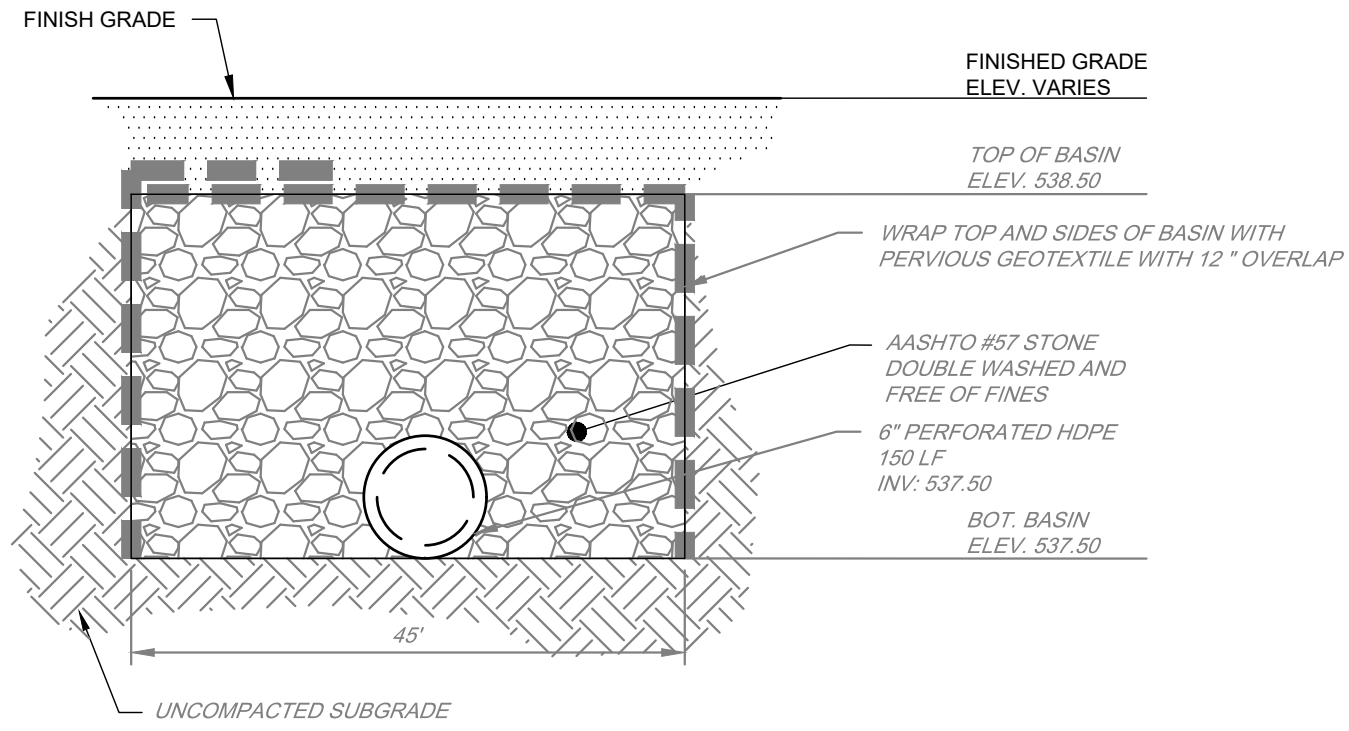
Δ	DATE	ISSUED FOR
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6	01/17/2024	ISSUED FOR FINAL SUBMISSION
7	03/18/2024	BID ISSUE

SHEET TITLE

PCSM DETAILS

DRAWING NUMBER

CS9505



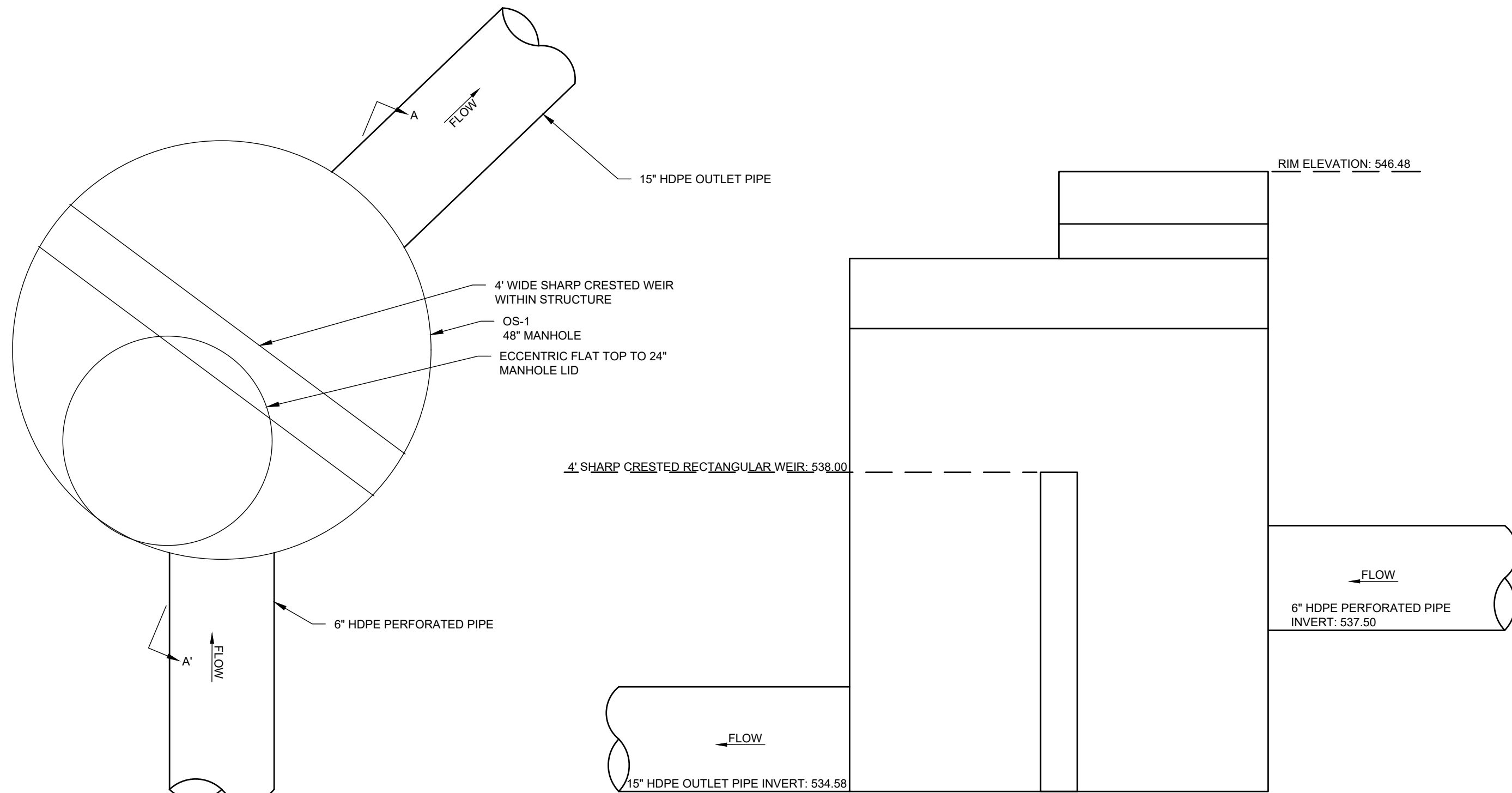
SECTION A-A'
N.T.S.

SUBSURFACE INFILTRATION BASIN #5 (BMP ID 5)

N.T.S.

SUBSURFACE INFILTRATION BASIN CONSTRUCTION NOTES:

1. THE INFILTRATION BASIN AND TRENCH SHALL BE PROTECTED FROM COMPACTION DUE TO HEAVY EQUIPMENT OPERATION OR STORAGE OF FILL OR CONSTRUCTION MATERIAL.
2. INFILTRATION AREAS SHALL BE PROTECTED FROM SEDIMENTATION AT ALL TIMES DURING CONSTRUCTION. APPROPRIATE MEASURES ARE TO BE TAKEN IN THE EVENT OF SEDIMENT ENTERING AND CLOGGING THE INFILTRATION BASIN.
3. SHOULD UNFAVORABLE CONDITIONS (I.E. GROUNDWATER AND/OR BEDROCK, ETC.) BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS OF THE INFILTRATION BASIN, THE DESIGN ENGINEER SHOULD BE CONTACTED TO ADDRESS SUCH ISSUES.
4. ALL CONSTRUCTION ACTIVITIES FOR THE INFILTRATION BASIN SHOULD OCCUR WITHIN A SHORT TIME PERIOD TO ENSURE THAT SILT AND SEDIMENT DO NOT ENTER THE BASIN.
5. IF INSPECTION INDICATES THAT SOIL OR SEDIMENT HAS ENTERED ANY OF THE INFILTRATION BASIN AREAS, APPROPRIATE MEASURES (I.E. CLEARING THE SOIL, SEDIMENT FROM THE FABRIC, STONE BED, ETC. AND/OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
6. AREAS THAT ARE ACCIDENTALLY COMPACTED OR GRADED SHALL BE REMEDIATED TO RESTORE SOIL COMPOSITION AND POROSITY. ADEQUATE DOCUMENTATION TO THIS EFFECT SHALL BE SUBMITTED FOR REVIEW BY THE MUNICIPAL ENGINEER.
7. ALL AREAS DESIGNATED FOR INFILTRATION SHALL NOT RECEIVE RUNOFF UNTIL THE CONTRIBUTING DRAINAGE AREA HAS ACHIEVED FINAL STABILIZATION.
8. EXCAVATION FOR THE INFILTRATION BASIN SHALL BE PERFORMED WITH EQUIPMENT THAT WILL NOT COMPACT THE BOTTOM OF THE BASIN.
9. THE BOTTOM OF ALL INFILTRATION BASIN SHALL BE UNDISTURBED, UNCOMPACTED SUBGRADE, AND SCARIFIED.
10. THE TOP AND ALL SIDES OF THE INFILTRATION BASIN SHALL BE COVERED WITH PERVIOUS GEOTEXTILE MEETING THE SPECIFICATIONS OF PENNDOT PUB 408, SECTION 1735, CLASS 1.
11. CLEAN WASHED STONE IS DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOSS TEST.
12. CONTRACTOR TO EXERCISE CAUTION TO NOT DISTURB EXISTING STONE INFILTRATION BED AND FILTER FABRIC. IF EXISTING STONE ENVELOPE AND FABRIC ARE COMPROMISED OR CONTAMINATED WITH SOIL DURING CONSTRUCTION ACTIVITIES, THEN CONTRACTOR SHALL REMOVE AND REPLACE WITH CLEAN STONE AND NON-WOVEN GEOTEXTILE.



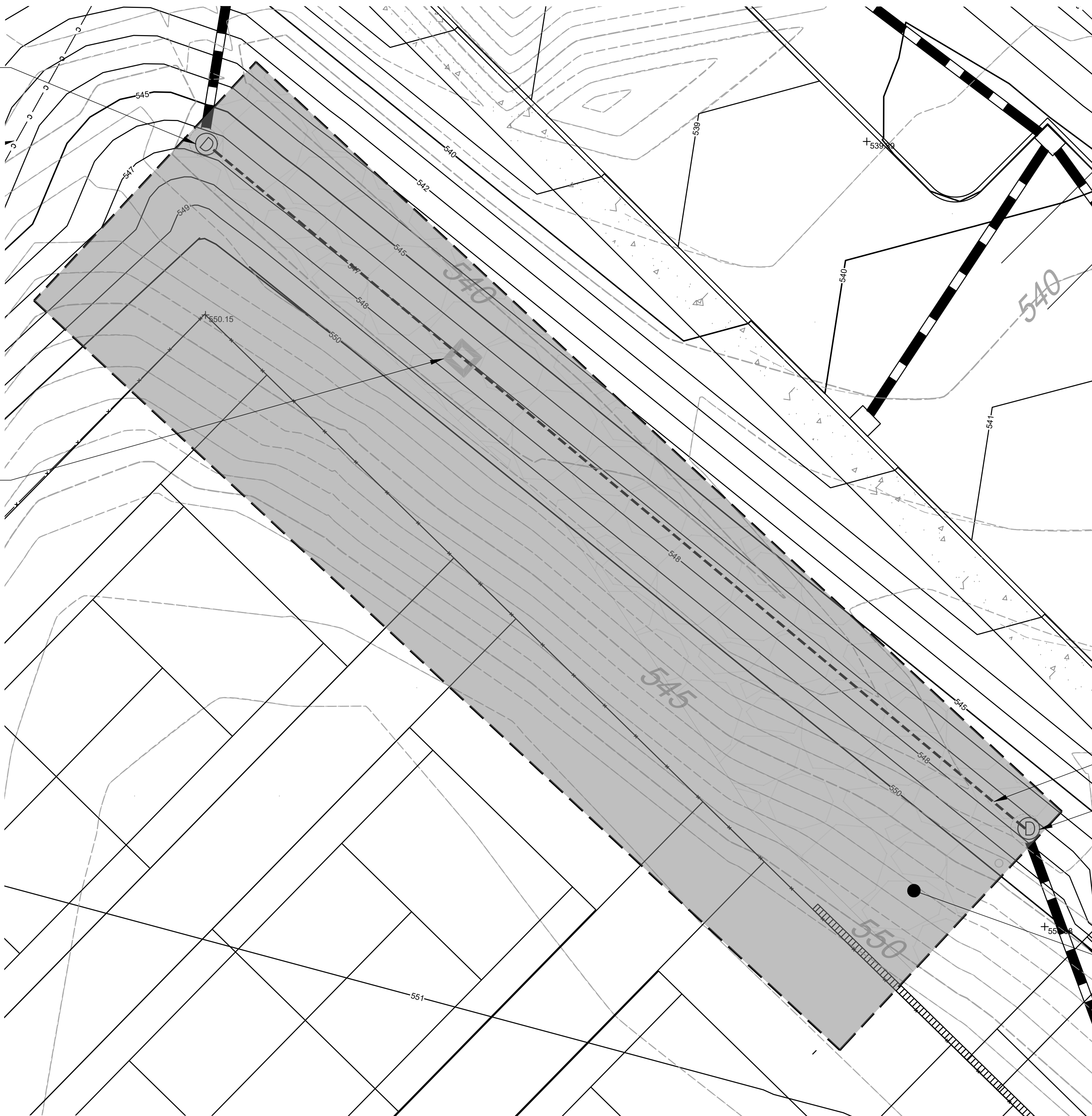
PLAN VIEW
SCALE: N.T.S.

OUTLET STRUCTURE DETAIL
SCALE: N.T.S.

SECTION A-A'
SCALE: N.T.S.

EXISTING DOMED RISER TO BE REPLACED
BY PROPOSED OUTLET STRUCTURE
(SEE DETAIL THIS SHEET)

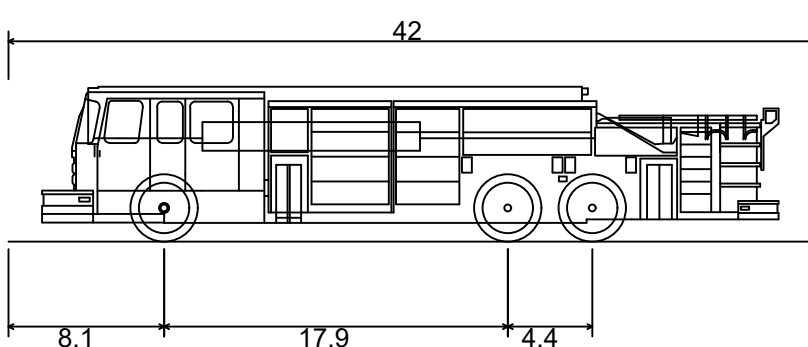
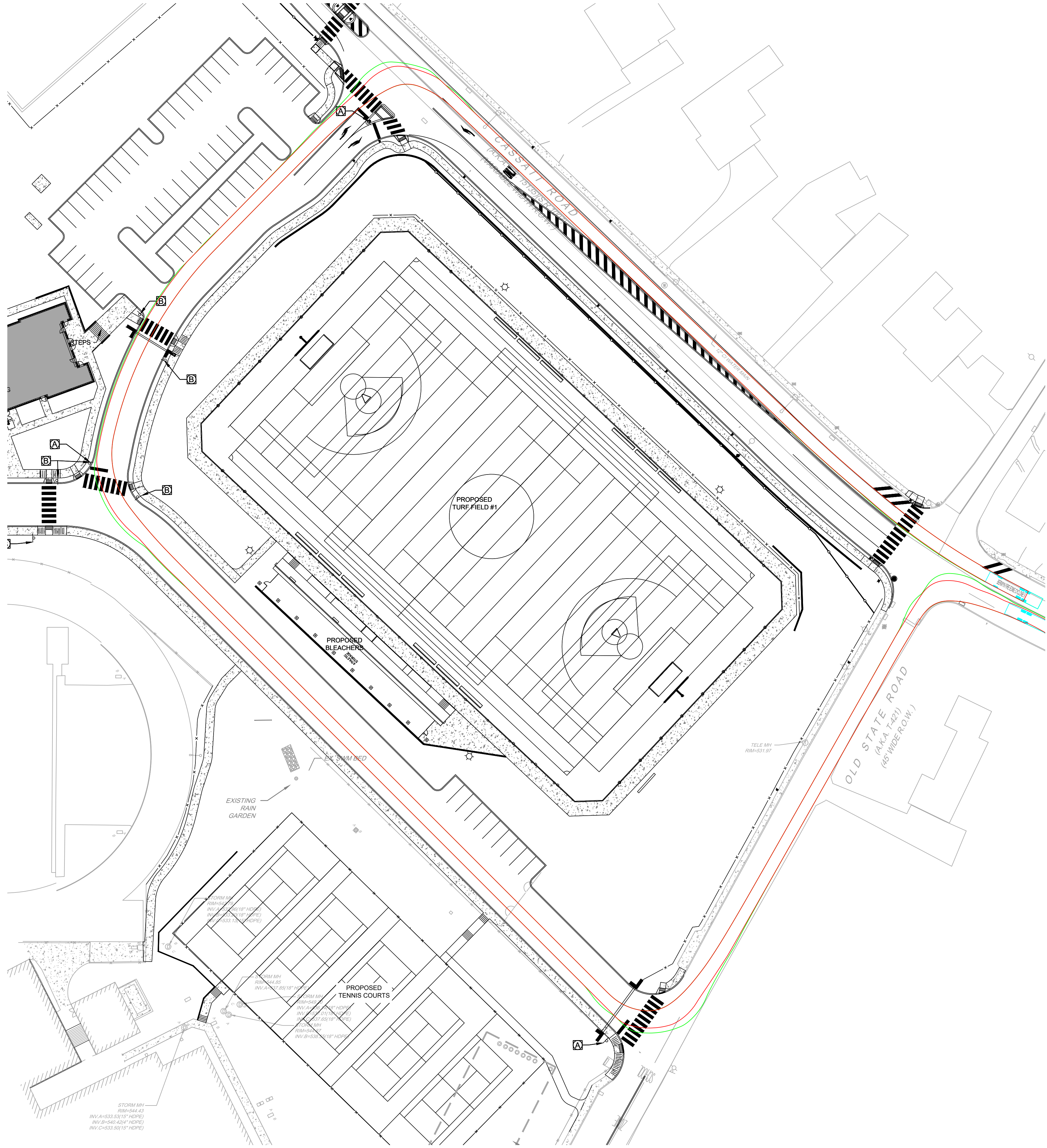
EXISTING DOMED RISER TO BE REMOVED.
EXTEND RISER TO MATCH FINISHED
GRADE. PROVIDE CLEANOUT



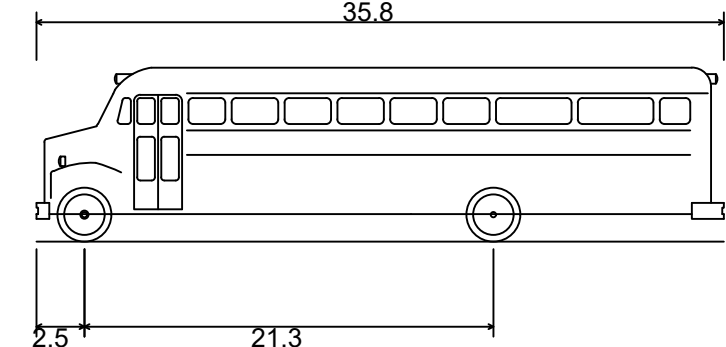
PLAN VIEW
SCALE: 1"=10'

EXISTING 6" PERFORATED
UNDERDRAIN PIPE (150 LF)
PROPOSED MANHOLE TO
TIE INTO EXISTING 6"
PERFORATED PIPE

EXISTING STONE BED
TO REMAIN



BERWYN FIRE EONE CYCLONE II
Overall Length 42.000ft
Overall Width 8.167ft
Overall Body Height 8.065ft
Min Body Ground Clearance 0.977ft
Track Width 8.167ft
Lock-to-lock time 5.00s
Max Wheel Angle 45.00°



S-BUS-36 - Conventional School Bus (65 pass.)
Overall Length 35.800ft
Overall Width 8.000ft
Overall Body Height 9.063ft
Min Body Ground Clearance 1.184ft
Track Width 8.000ft
Lock-to-lock time 5.00s
Max Steering Angle (Virtual) 37.60°

- NOTES:
1. STANDARD SCHOOL BUSES ARE SMALLER THAN THE FIRE TRUCK MODEL USED AND WILL BE ABLE TO MANUEVER WITHIN THE SITE.
 2. MAIL AND PACKAGE DELIVERY WILL CONTINUE TO GO TO THE DESIGNATED AREA IN FRONT OF THE SCHOOL ON THE EXISTING CAMPUS.

PROJECT TEAM

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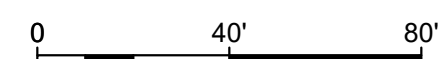
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MISC DISCIPLINE
N/A

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TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019

HECKENDORN SHILES ARCHITECTS

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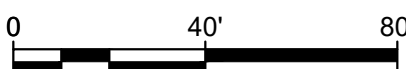
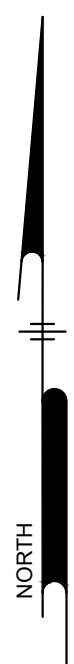
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SHEET TITLE
TRUCK TURNING
PLAN

DRAWING NUMBER

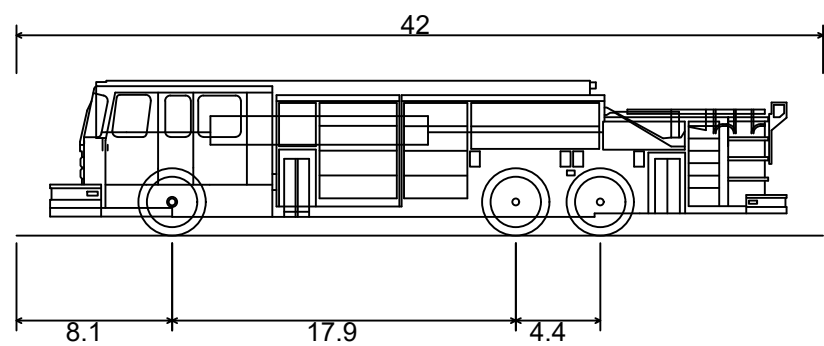
CS9802



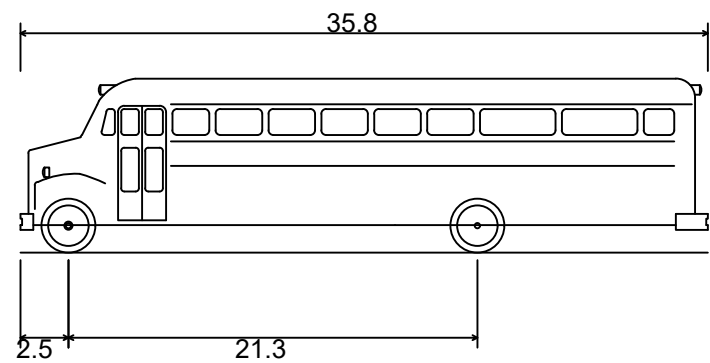
SHEET 51 OF 51

NOTES:

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