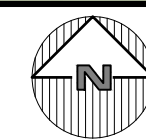


LOCATION MAP
NOT TO SCALE



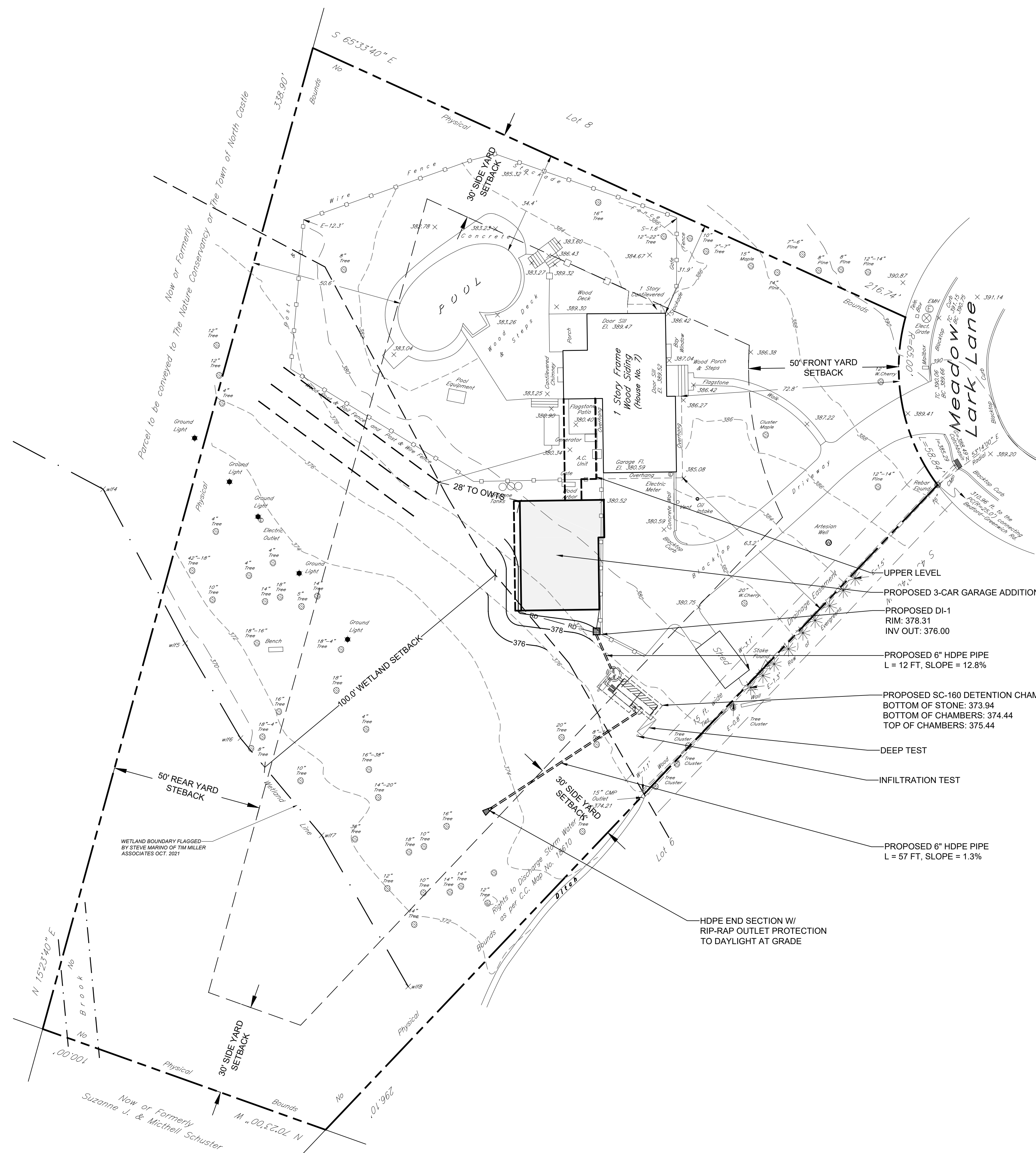
SITE DATA:

OWNER / DEVELOPER: TODD KOSAKOWSKI
 STREET ADDRESS: 7 MEADOW LARK LANE, BEDFORD, NY 10506
 PROJECT LOCATION: TOWN OF NORTH CASTLE
 EXISTING TOWN ZONING: R-2A SINGLE FAMILY
 TOWN TAX MAP DATA: SECTION 102.01, BLOCK 2, LOT 26
 SITE AREA: 1.351 ACRES (58,851 SF)
 SEWAGE FACILITIES: SUBSURFACE SEWAGE DISPOSAL
 WATER FACILITIES: DRILLED WELL

ZONING SCHEDULE:

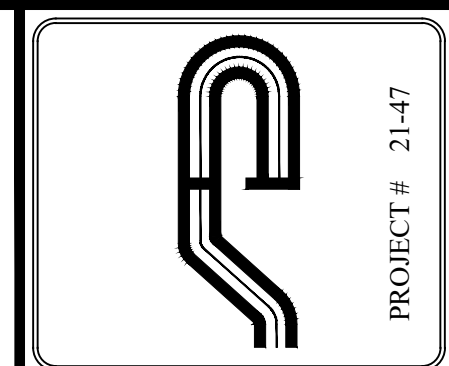
ZONING DISTRICT: R-2A, SINGLE FAMILY RESIDENTIAL			
DIMENSIONAL REGULATIONS:	REQUIRED	PROVIDED	VARIANCE REQUIRED
MINIMUM SIZE OF LOT:			
LOT AREA:	2.0 AC.	1.35 AC.	NONE
LOT FRONTAGE:	150 FT. (a)	58.84 FT.	NONE
LOT WIDTH:	150 FT.	180 FT.	NONE
LOT DEPTH:	150 FT.	245 FT.	NONE
MINIMUM YARD DIMENSIONS:			
PRINCIPAL BUILDING:			
FRONT YARD SETBACK:	50 FT.	72.8 FT.	NONE
REAR YARD SETBACK:	50 FT.	107 FT.	NONE
ONE SIDE YARD SETBACK:	30 FT.	31.9 FT.	NONE
MAXIMUM HEIGHT:			
PRINCIPAL BUILDING - FEET:	30 FEET (q)	22.5 FEET	NONE
MAXIMUM % OF LOT TO BE OCCUPIED:			
PRINCIPAL BUILDING COVERAGE:	8% OF LOT AREA	2.5% OF LOT AREA	NONE
MINIMUM BUILDING SIZE:			
	1,400 SF	1,640 SF (EXISTING HOUSE + SHED) 2,614 SF (HOUSE + SHED + GARAGE)	NONE

NOTES:
 (a) This requirement may be modified by the Planning Board with respect to any lot abutting a nonresidential building, provided that a minimum setback of 25 feet is provided.
 (q) See § 355-23 regarding increased height provisions for the R-1A through R-4A Districts.

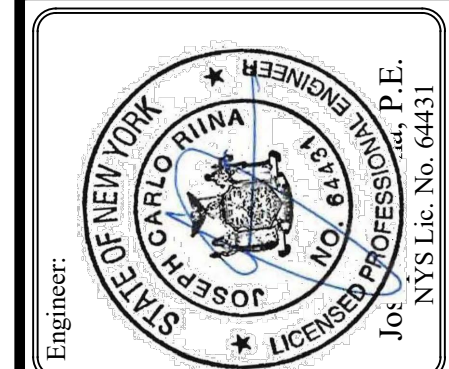


LEGEND

- EXISTING GRADING
- EXISTING SPOT GRADE
- PROPOSED GRADING
- PROPERTY LINE / RIGHT OF WAY
- EXISTING STONE WALL
- EXISTING STONE WALLS TO BE REMOVED
- PROPOSED RIP RAP AT PIPE END
- PROPOSED PERMANENT SWALE
- PROPOSED FOOTING DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED HOUSE AND DRIVE
- PROPOSED RETAINING WALLS
- PROPOSED SOIL STOCKPILES
- PROPOSED SILT FENCE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED LIMIT OF DISTURBANCE
- EXISTING TREE TO BE REMOVED



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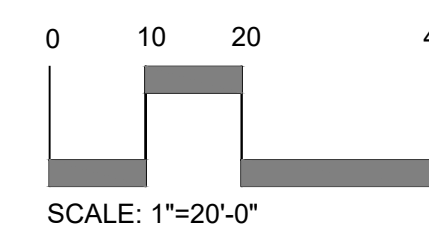
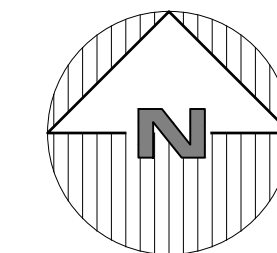
Revisions:	No.	Date	Comments
	1	6/03/22	Verified OWTs

SCALE: 1" = 20'
 DRAWN BY: JR
 DATE: 4/11/22

SITE PLAN

PROPOSED SITE PLAN
 PREPARED FOR
TODD KOSAKOWSKI
 7 MEADOW LARK LANE
 Town of North Castle, Westchester County, NY

NOTE:
 1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY HENRY KOSAKOWSKI, DATED 10/24/2016. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



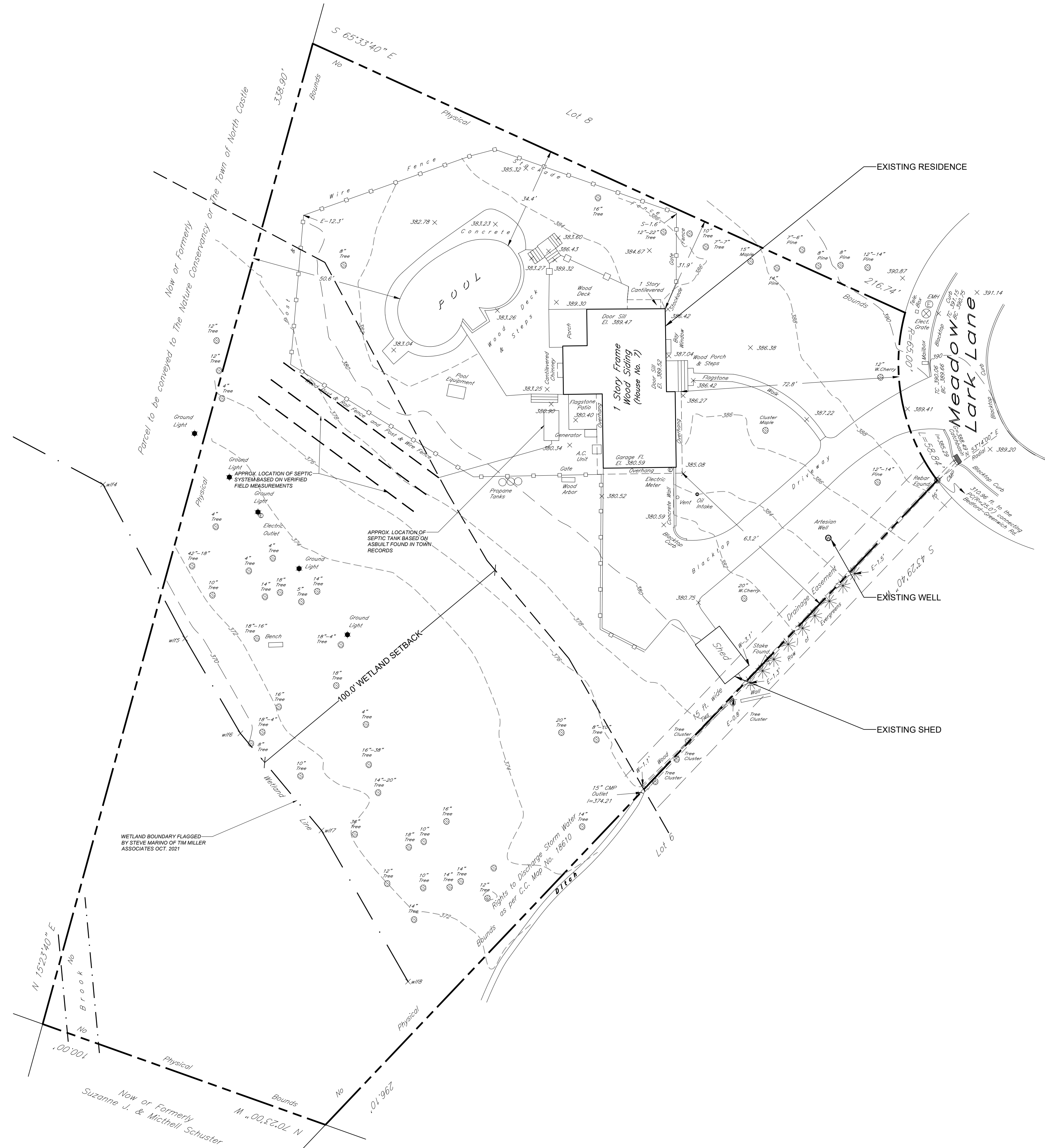
SAFE DIG
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Sheet 1 of 5

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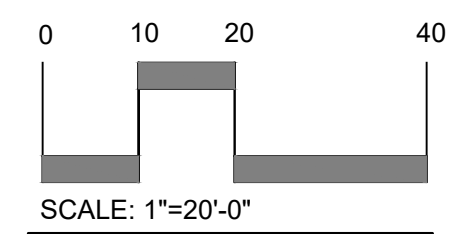
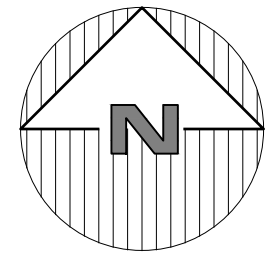
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E:\2021\12\17\TODD.KOSAKOWSKI\ENGINEERING\CAD\2021\12\17\TODD.KOSAKOWSKI\7 MEADOW LARK LANE - BEDEDED\DWG\1-47.TODD.KOSAKOWSKI.SITE.PLAN.DWG.6/6/2022,12:40:33.PM

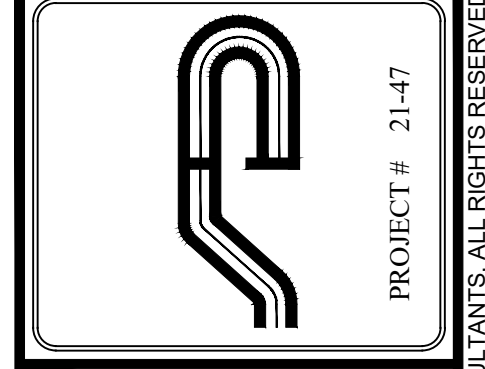


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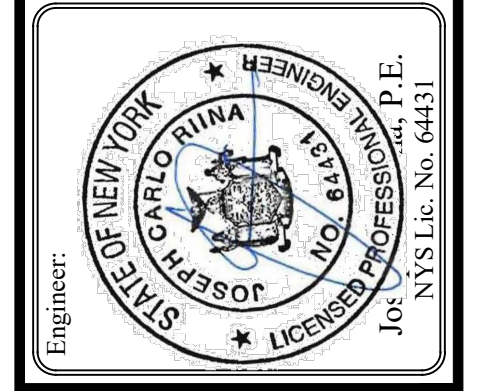


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Revisions:	No.	Date	Comments
	1	6/03/22	Verified OWTs

SCALE: 1" = 20'
 DRAWN BY: JR
 DATE: 4/11/22

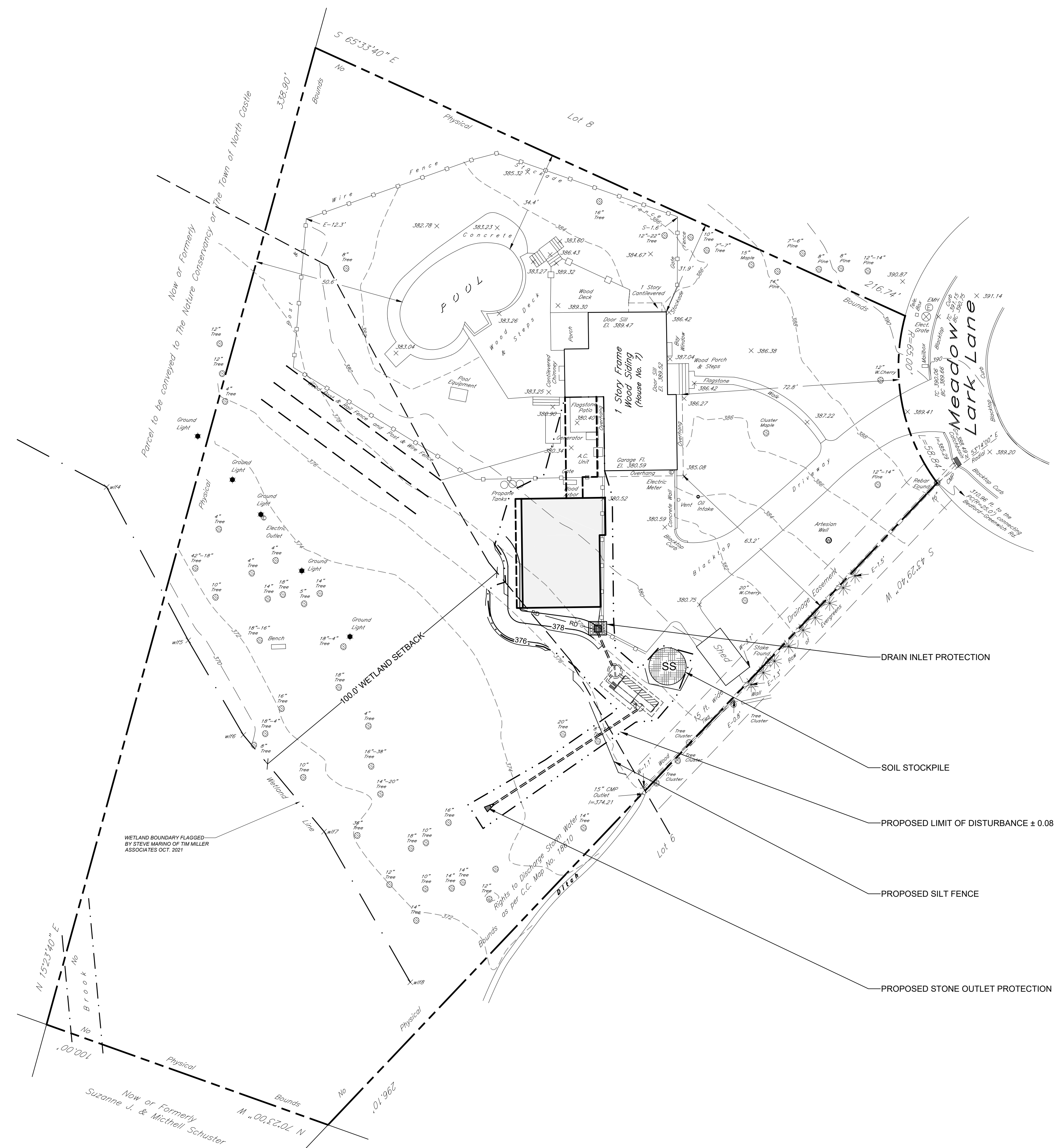
EXISTING CONDITIONS

PROPOSED SITE PLAN
 PREPARED FOR
TODD KOSAKOWSKI
 7 MEADOW LARK LANE
 Town of North Castle
 Westchester County, NY

Sheet 2 of 5

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E:\2023\147.TODD.KOSAKOWSKI.MEADOW.LARK.LANE.BEDDED.DWG\147.TODD.KOSAKOWSKI.SITE.PLAN.DWG.6/6/2022.12:40:33.PM



LEGEND

	222	EXISTING GRADING
	X 222.8	EXISTING SPOT GRADE
	200	PROPOSED GRADING
		PROPERTY LINE / RIGHT OF WAY
		EXISTING STONE WALL
		EXISTING STONE WALLS TO BE REMOVED
		PROPOSED RIP RAP AT PIPE END
		PROPOSED PERMANENT SWALE
	FD	PROPOSED FOOTING DRAIN
	RD	PROPOSED ROOF DRAIN
		PROPOSED HOUSE AND DRIVE
		PROPOSED RETAINING WALLS
	SS	PROPOSED SOIL STOCKPILES
		PROPOSED SILT FENCE
		PROPOSED STABILIZED CONSTRUCTION ENTRANCE
		PROPOSED LIMIT OF DISTURBANCE
		EXISTING TREE TO BE REMOVED

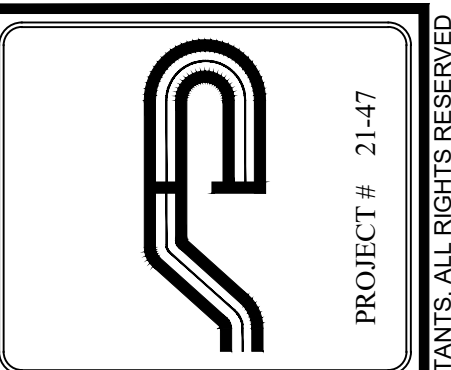
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SCALE: 1"=20'-0"

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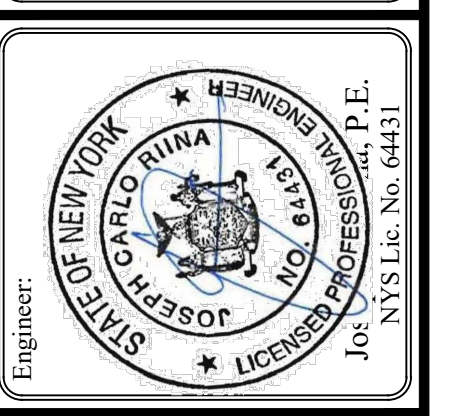
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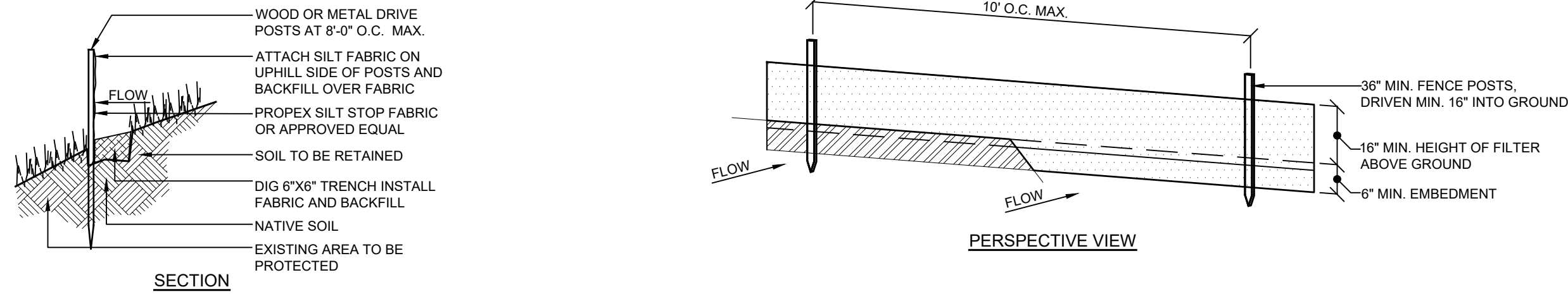
Revisions:	No.	Date	Comments
	1	6/03/22	Verified OWTs

SCALE: 1" = 20'	DRAWN BY: JR	DATE: 4/11/22
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EROSION PLAN

PROPOSED SITE PLAN
PREPARED FOR
TODD KOSAKOWSKI
7 MEADOW LARK LANE
Town of North Castle, Westchester County, NY

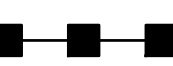
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NOTES:

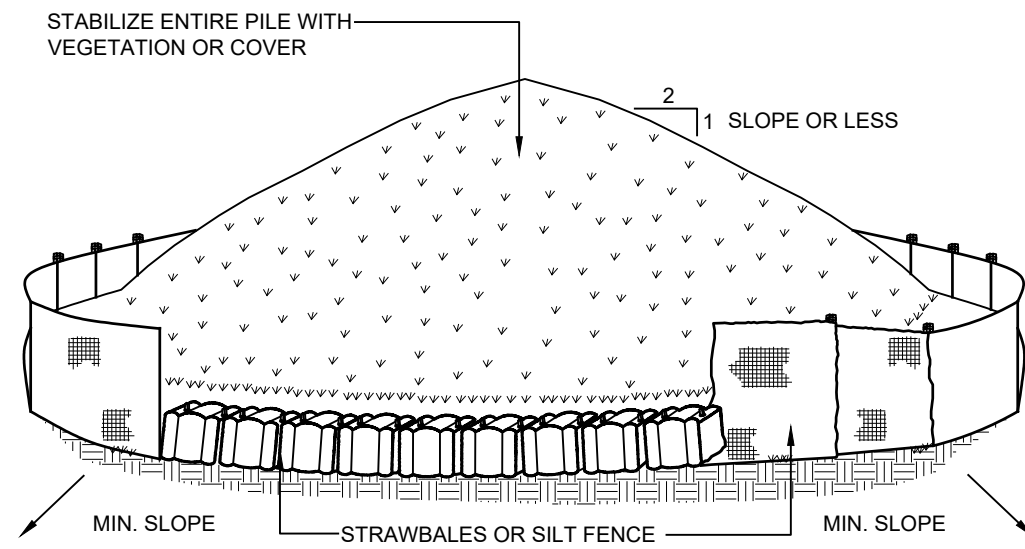
1. Filter cloth to be fastened securely to upgrade side of post; steel posts (either T or U Type) or 2" hardwood posts at top and mid section.
2. When two sections of filter cloth adjoin each other they shall be overlapped by 6 inches and folded. Filter cloth shall be Mfr#1100x, Stabilinka T140n or approved equal
3. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence or the capacity reaches 50%.
4. Excavate 6 inch trench along the silt fence line and bury the fabric.
5. Unroll a section at a time and position the post against the back (downstream) wall of the trench.
6. Drive the post into the ground until the netting is approximately 2 inches from the trench bottom.
7. Lay the toe-in flap of fabric onto the undisturbed bottom of the trench, backfill the trench and tamp the soil. Steeper slopes require an intercept trench.
8. Join sections as shown above.

SYMBOL



E-1

SILT FENCE DETAIL
NOT TO SCALE



SYMBOL

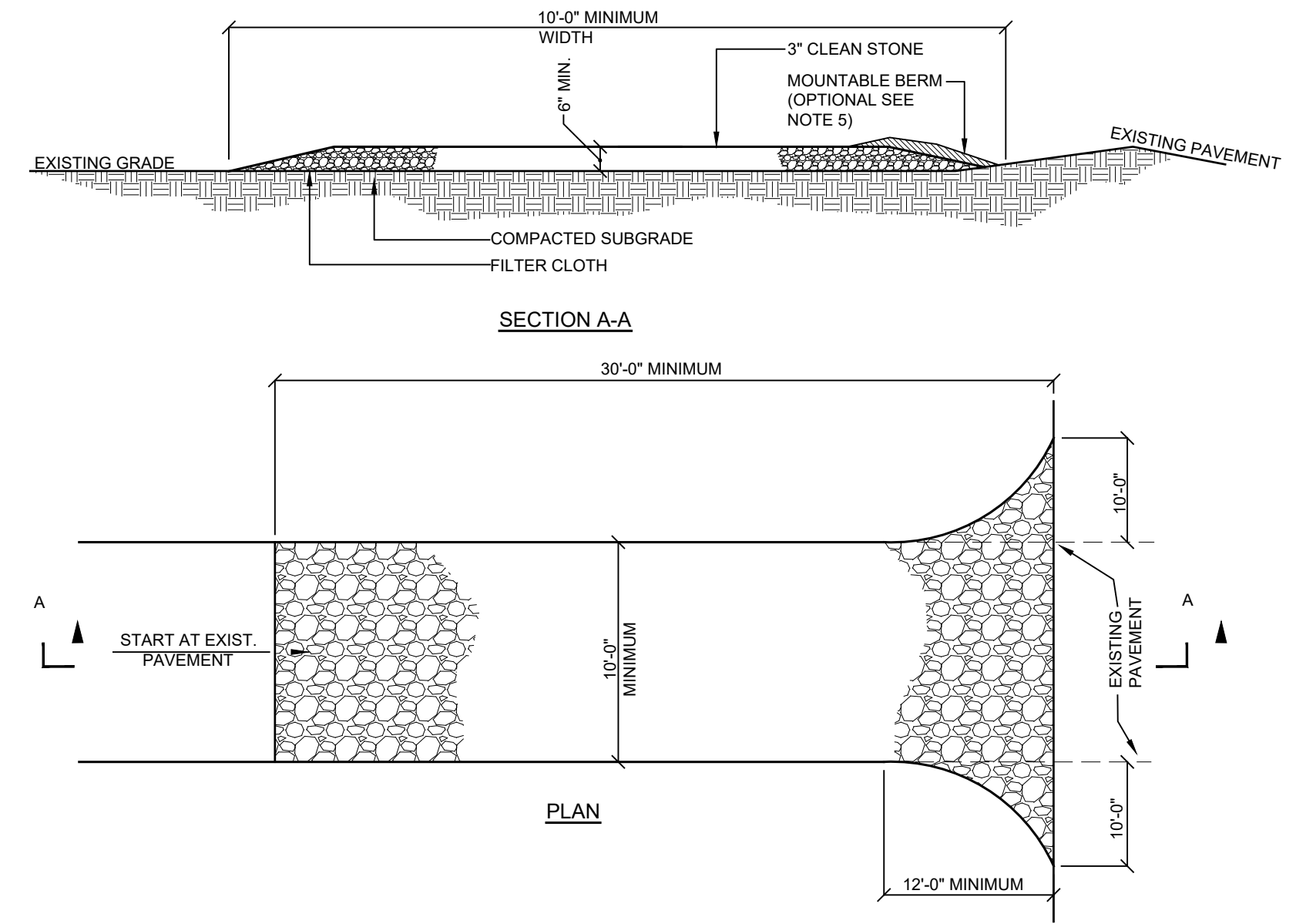


NOTES:

1. Area chosen for stockpiling operations shall be dry and stable.
2. Maximum slope of stockpile shall be 1:2.
3. Upon completion of soil stockpiling, each pile shall be surrounded with either silt fencing or strawbales, then stabilized with vegetation or covered.
4. See detail for installation of silt fence.

E-2

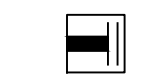
SOIL STOCKPILE DETAIL
NOT TO SCALE



INSTALLATION NOTES:

1. Stone size - use 3" min. Stone, or reclaimed or recycled concrete equivalent.
2. Length - as required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - not less than six (6) inches.
4. Width - 10 feet minimum, but not less than the full width at points where ingress or egress occur. 24 ft if single entrance to site.
5. Surface water - all surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
6. Maintenance - the entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right of way this may require periodic top dressing with additional stone as conditions demand and repair and/or cleanouts of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public right of way must be removed immediately.
7. Washing - wheels shall be cleaned to remove sediment prior to entrance onto public right of way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
8. Periodic inspection and needed maintenance shall be provided after each rain.

SYMBOL



E-4

STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

GENERAL EROSION CONTROL NOTES:

1. Contractor shall be responsible for compliance with all sediment and erosion control practices. The sediment and erosion control practices are to be installed prior to any major soil disturbances, and maintained until permanent protection is established. Road surface flows from the site should be dissipated with tracking pad or appropriate measures during adjacent road shoulder regrading. Contractor is responsible for the installation and maintenance of all soil erosion and sedimentation control devices throughout the course of construction.
2. Catch basin inlet protection must be installed and operating at all times until tributary areas and basin have been stabilized. When possible flows should be stabilized before reaching inlet protection structure. Timely maintenance of sediment control structures is the responsibility of the Contractor.
3. All structures shall be maintained in good working order at all times. The sediment level in all sediment traps shall be closely monitored and sediment removed promptly when maximum levels are reached or as ordered by the engineer. All sediment control structures shall be inspected on a regular basis, and after each heavy rain to insure proper operation as designed. An inspection schedule shall be set forth prior to the start of construction.
4. The locations and the installation times of the sediment capturing standards shall be as specified in these plans, as ordered by the Engineer, and in accordance with the latest edition of the "New York Standards and Specifications for Erosion and Sediment Control" (NYSSESC).
5. All topsoil shall be placed in a stabilized stockpile for reuse on the site. All stockpile material required for final grading and stored on site shall be temporarily seeded and mulched within 7 days. Refer to soil stockpile details.
6. Any disturbed areas that will be left exposed more than 7 days and not subject to construction traffic, shall immediately receive temporary seeding. Mulch shall be used if the season prevents the establishment of a temporary cover. Disturbed areas shall not be limed and fertilized prior to temporary seeding.
7. All disturbed areas within 500 feet of an inhabited dwelling shall be wetted as necessary to provide dust control.
8. The contractor shall keep the roadways within the project clear of soil and debris and is responsible for any street cleaning necessary during the course of the project.
9. Sediment and erosion control structures shall be removed and the area stabilized when the drainage area has been properly stabilized by permanent measures.
10. All sediment and erosion control measures shall be installed in accordance with current edition of NYSSESC.
11. All regraded areas must be stabilized appropriately prior to any rock blasting, cutting, and/or filling of soils. Special care should be taken during construction to insure stability during maintenance and integrity of control structures.
12. Any slopes graded at 3:1 or greater shall be stabilized with erosion blankets to be staked into place in accordance with the manufactures requirements. Erosion blankets may also be required at the discretion of Town officials or Project Engineer. When stabilized blanket is utilized for channel stabilization, place one half the volume of seed mix prior to laying net, and place the remaining seed after laying the stabilized blanket.
13. To prevent heavy construction equipment and trucks from tracking soil off-site, construct a pervious crushed stone pad. Locate and construct pads as detailed in these plans.
14. Contractor is responsible for controlling dust by sprinkling exposed soil areas periodically with water as required. Contractor to supply all equipment and water.
15. Contractor shall be responsible for construction inspections as per the Town of North Castle requirements.

CONSTRUCTION SEQUENCE:

1. A licensed surveyor must define infrastructure locations, limits of disturbance, stormwater basin limits, and grades in the field prior to start of any construction. Limits of disturbance shall be marked with the installation of construction fence or approved equal.
2. Install all perimeter erosion control measures, construction entrance as shown on the Erosion and Sediment Control Plan and the associated Details.
3. Cut and clear trees within work area. Timbered trees, wood chips, and stumps shall be removed off-site. Strip site and place topsoil in stockpile locations shown on the plan.
4. Start construction of project access points, set-up staging areas as shown on Erosion and Sediment Control Plan.
5. Begin rough grading the site.
6. Rough grade of foundation for additions. Soil shall be stockpiled as shown and stabilized the next day if they are to be left alone for over seven days.
7. Begin excavation of building foundations, wall, and utilities. Protect open excavations. Where applicable, place fill on the up-slopes and side edges of fill area. Fill should be pushed in place and stabilized with tracking perpendicular to the slope. Place soil stockpiles in locations shown on the Erosion and Sediment Control Plans and associated Details.
8. Begin construction of the house addition.
9. Upon completion of foundation, backfill to grade and immediately stabilize areas that will not receive traffic or disturbance within seven (7) days.
10. Begin the excavation and installation of utilities and drainage system. Protect trenches and open excavations from erosion. All drainage inlets shall be protected from sediment entering. There shall be no direct unfiltered discharge into the stormwater systems. The stormwater outlet shall be blocked until all upstream areas have been permanently stabilized.
11. During building and site construction maintain and re-establish as required erosion control and stabilization measures as required by the site plan and details.
12. Topsoil, rake, seed and mulch all disturbed areas. Once all proposed disturbances are completed, begin full stabilization of the site. Once the site has been stabilized, remove all temporary erosion control measures. This shall be done during optimum weather conditions to avoid sediment transport. A site shall be considered stabilized when it has a minimum uniform 80% perennial vegetation cover or other permanent non vegetative cover with a density sufficient to resist accelerated surface erosion. Once final stabilization has been achieved, unblock piping to infiltrators in order to allow flow to enter.

MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES:

1. Trees and vegetation shall be protected at all times as shown on the detail drawing and as directed by the Engineer.
2. Care should be taken so as not to channel concentrated runoff through the areas of construction activity on the site.
3. Fill and site disturbances should not be created which causes water to pond off site or on adjacent properties.
4. Runoff from land disturbances shall not be discharged or have the potential to discharge off site without first being intercepted by a control structure, such as a sediment trap or the sediment pond. Sediment shall be removed before exceeding 50% of the retention structure's capacity.
5. For finished grading, adequate grade shall be provided so that water will not pond on lawns for more than 24 hours after rainfall, except in swale flow areas which may drain for as long as 48 hours after rainfall.
6. All swales and other areas of concentrated flow shall be properly stabilized with temporary control measures to prevent erosion and sediment travel. Surface flows over cut and fill areas shall be stabilized at all times.
7. All sites shall be stabilized with erosion control materials within 7 days of final grading.
8. Temporary sediment trapping devices shall be removed from the site within 30 days of final stabilization.

MAINTENANCE SCHEDULE:

	DAILY	WEEKLY	MONTHLY	AFTER RAINFALL	NECESSARY TO MAINTAIN FUNCTION	AFTER APPROVAL OF INSPECTOR
SILT FENCE	---	----			CLEAN/REPLACE	REMOVE

MAINTENANCE OF PERMANENT CONTROL STRUCTURES DURING CONSTRUCTION:

The stormwater management system and outlet structure shall be inspected on a regular basis and after every rainfall event. Sediment build up shall be removed from the inlet protection regularly to insure detention capacity and proper drainage. Outlet structure shall be free of obstructions. All piping and drain inlets shall be free of obstruction. Any sediment build up shall be removed.

MAINTENANCE OF CONTROLS AFTER CONSTRUCTION:

Controls (including respective outlet structures) should be inspected periodically for the first few months after construction and on an annual basis thereafter. They should also be inspected after major storm events.

DEBRIS AND LITTER REMOVAL:

Twice a year, inspect outlet structure and drain inlets for accumulated debris. Also, remove any accumulations during each mowing operation.

STRUCTURAL REPAIR/REPLACEMENT:

Outlet structure must be inspected twice a year for evidence of structural damage and repaired immediately.

EROSION CONTROL:

Unstable areas tributary to the basin shall immediately be stabilized with vegetation or other appropriate erosion control measures.

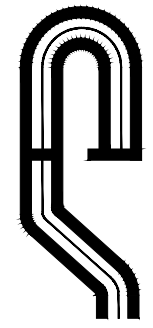
SEDIMENT REMOVAL:

Sediment should be removed after it has reached a maximum depth of five inches above the stormwater management system floor.

NOTE:

1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY NAME OF SURVEYOR, DATED XX/XX/XX, LAST REVISED XXXXXX. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.



PROJECT # 21-47

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Engineer: Joseph P. Rina, P.E.
NYS Lic. No. 64431

Revisions:	No.	Date	Comments:	Verified:	OWTS
	1	6/03/22			

SCALE: 1" = 20'	DRAWN BY: JR	DATE: 4/11/22
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EROSION DETAILS

PROPOSED SITE PLAN
PREPARED FOR
TODD KOSAKOWSKI
7 MEADOW LARK LANE
Westchester County, NY

Sheet 4 of 5

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PROJECT INFORMATION

ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

ADS
Advanced Drainage Systems, Inc.

21-47 KOSOKOWSKI
NORTH CASTLE, NY

SC-160LP STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-160LP.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418 - 16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPIDE 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 ASHFTO LRPD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE ASHFTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1 MIN) ASHFTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER; 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKEED (1) WRECK, ASHFTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 400 LB/IN. AND 3) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 22° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL, BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR THE LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 6.2.8 AND 12.12 OF THE ASHFTO LRPD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CRISP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

PROPOSED LAYOUT

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	INVERT ABOVE BASE OF CHAMBER
1	STORMTECH SC-160LP CHAMBER	11	CHAMBER	
2	STORMTECH SC-160LP END CAP	2	END CAP	
3	CONCRETE STRUCTURE	1	STRUCTURE	
4	CONCRETE PAVEMENT	1	PAVEMENT	
5	CONCRETE CURB	1	CURB	
6	CONCRETE MANHOLE	1	MANHOLE	
7	CONCRETE UTILITY	1	UTILITY	
8	CONCRETE SIDEWALK	1	SIDEWALK	
9	CONCRETE DRIVEWAY	1	DRIVEWAY	
10	CONCRETE DRIVEWAY	1	DRIVEWAY	
11	CONCRETE DRIVEWAY	1	DRIVEWAY	
12	CONCRETE DRIVEWAY	1	DRIVEWAY	
13	CONCRETE DRIVEWAY	1	DRIVEWAY	
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96	CONCRETE DRIVEWAY	1	DRIVEWAY	
97	CONCRETE DRIVEWAY	1	DRIVEWAY	
98	CONCRETE DRIVEWAY	1	DRIVEWAY	
99	CONCRETE DRIVEWAY	1	DRIVEWAY	
100	CONCRETE DRIVEWAY	1	DRIVEWAY	

NOTES

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418 - 16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1 MIN) ASHFTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER; 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKEED (1) WRECK, ASHFTO DESIGN TRUCK.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PRIMER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 400 LB/IN. AND 3) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 22° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-160LP CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	ASHFTO 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 SOLIDROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR SPECIAL SUBGRADE REQUIREMENTS.	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 1" (25 mm) ABOVE THE TOP OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <3% FINES OR PROCESSED ASPHALTE.	ASHFTO M47 A1-A-2, A-3 OR ASHFTO M43	BEGIN COMPACTIONS AFTER 1" (25 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 4" (100 mm) MAX LIFTS TO A MIN. 98% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED ASPHALTE MATERIALS. MAXIMUM DYNAMIC 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	ASHFTO M47 3, 357, 4, 467, 5, 56, 57, 6, 67, 7, 8, 9, 9, 10	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	ASHFTO M47 3, 357, 4, 467, 5, 56, 57	FLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE ¹⁾

PLEASE NOTE:

- THE LISTED ASHFTO 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 (ASHFTO M4) STONE".
- STORMTECH DESIGN REQUIREMENTS ARE MET FOR ALL LOCATION MATERIALS WHEN PLACED AND COMPACTED AT 4" (100 mm) MAX LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SUBBASES MAY BE COMPACTION FOR STANDING DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAMPING OR DRAGGING WITHOUT COMPACTION EQUIPMENT FOR SPECIAL LOADS.
- ONCE LAYER 'C' IS PLACED, ANY SOLMATERIAL 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 ENGINEERS DISCRETION.

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SC-160LP ISOLATOR ROW PLUS DETAIL

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

- INSPECTION PORTS (IF PRESENT)
- REMOVE COVER LID ON UPSTREAM END OF ISOLATOR ROW PLUS
- USING A FLASHLIGHT AND STADIUM ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- 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 JETTED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 40° (1.1 m) OR MORE IS PREFERRED
- APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKWASH WATER IS CLEAN
- VACUUM STRUCTURE SLUMP 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.

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NYLOPLAST DRAIN BASIN

NOTES

- 1" (25 mm) (3/8") GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 12" (305 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- DRAINAGE CONNECTIONS TO JOINT THROUGHS SHALL CONFORM TO ASTM D12 FOR CORRUGATED HOPE (ADS) & MANHOLE WALL & SCR 36 PVC
- FOR MORE DESIGN AND PRODUCT INFORMATION: www.nyloplast-us.com
- TO ORDER CALL: 800-821-4719

A	PART #	GRATE/SOLID COVER OPTIONS
8" (203 mm)	2806AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY
10" (254 mm)	2816AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY
12" (305 mm)	2826AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY
15" (381 mm)	2836AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY
18" (457 mm)	2846AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY
24" (609 mm)	2856AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY
30" (762 mm)	2866AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY

21-47 KOSOKOWSKI
NORTH CASTLE, NY

StormTech
Chamber System

ADS
Advanced Drainage Systems, Inc.

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DRAINAGE DETAILS

TODD KOSAKOWSKI
7 MEADOW LARK LANE
Westchester County, NY

PROPOSED SITE PLAN PREPARED FOR

Sheet 5 of 5