

PROPERTY AND OWNER INFORMATION

OWNER: NIKOS LYKOKAS
 SECTION: 71.09 BLOCK: 1 LOT: 52
 LOT AREA: 0.67 ACRES
 ZONE: R-22
 GROUP: 1 - SINGLE FAMILY DETACHED RESIDENCES
 USE: SINGLE FAMILY DETACHED RESIDENCE

CONSTRUCTION NOTES:

- EXISTING UTILITIES AND UNDERGROUND STRUCTURES SHOWN ON THE PLAN ARE BASED UPON THE BEST AVAILABLE PUBLIC RECORDS, PRIVATE RECORDS AS SUPPLIED BY THE OWNER, OR DATA OBTAINED VERBALLY FROM OWNERS OR OFFICIALS FAMILIAR WITH THE PROJECT SITE. NEITHER THE OWNER NOR THE ENGINEER GUARANTEE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND ASSUME NO RESPONSIBILITY FOR IMPROPER LOCATIONS ON THE CONSTRUCTION PLANS. OTHER UNDERGROUND FACILITIES NOT SHOWN ON THE DRAWINGS MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL INVERT ELEVATIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- IF CHANGED CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF EITHER (1) PREEXISTING SUBSURFACE CONDITIONS DIFFERING FROM THOSE INDICATED IN THE PLANS, OR (2) PREEXISTING UNKNOWN SUBSURFACE CONDITIONS OF AN UNUSUAL NATURE, DIFFERING MATERIALLY FROM THOSE ORIGINALLY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN THE CHARACTER OF THE WORK PROVIDED FOR IN THE CONTRACT. THE CONTRACTOR AND/OR OWNER SHALL MAKE NO CLAIMS TO THE ENGINEER FOR RECOMPENSATION FOR EXTRA WORK RESULTING FROM CHANGED CONDITIONS UNLESS THE ENGINEER HAS APPROVED THE WORK IN WRITING.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND APPROVED CITY ORDINANCES AND SHALL POST SUCH DOCUMENTS AT VISIBLE LOCATIONS AND MAINTAIN UPDATED DOCUMENTATION ACCORDINGLY.
- CONTRACTOR SHALL CALL THE UTILITIES UNDERGROUND LOCATION CENTER FOR FIELD LOCATIONS OF ALL UTILITIES AND SHALL NOT BEGIN EXCAVATION UNTIL ALL KNOWN UNDERGROUND FACILITIES IN THE VICINITY OF THE PROPOSED WORK HAVE BEEN LOCATED AND MARKED. IF THE UTILITY IS NOT A SUBSCRIBER OF THE UTILITIES UNDERGROUND LOCATION CENTER, THEN THE CONTRACTOR SHALL GIVE NOTICE TO THAT UTILITY.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEW OF ALL INFORMATION PROVIDED BY UTILITY PURVEYORS, AND CITY OR STATE RECORDS RELATED TO THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING DAMAGE TO THESE FACILITIES AND SHALL RESTORE ALL UTILITIES AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY ALL UTILITY SERVICES FOR TEMPORARY SHUT OFF AS REQUIRED. CONTRACTOR SHALL MAINTAIN AND PROTECT SERVICES AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
- NO PUBLIC WAYS OR WALKS MAY BE OBSTRUCTED WITHOUT THE WRITTEN PERMISSION OF GOVERNING AUTHORITIES AND OF THE OWNER. WHERE ROUTES ARE PERMITTED TO BE CLOSED, PROVIDE ALTERNATE ROUTES AND SIGNAGE IF REQUIRED.
- WET DEBRIS WITH WATER AS NECESSARY TO LIMIT DUST TO LOWEST PRACTICAL LEVEL. DO NOT WET TO THE EXTENT OF FLOODING, CONTAMINATED RUNOFF, OR ICING.
- ANY PORTIONS OF PAVEMENT TO BE REMOVED MUST BE SEPARATED BY MAKING A NEAT VERTICAL SAW CUT ALONG THE BOUNDARIES OF THE AREA TO BE REMOVED. MAKE CUTS AT CLOSEST PAVING JOINT.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, EQUIPMENT, AND SERVICES TO PROPERLY EXECUTE THE DEMOLITION AND REMOVAL WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS AND TO REMAIN IN ACCORDANCE WITH ALL STATE AND LOCAL AGENCY REQUIREMENTS.
- ALL DEMOLITION WORK SHALL BE PERFORMED WITH MINIMUM DAMAGE TO THE EXISTING WORK TO REMAIN. IT SHALL BE RECOGNIZED THAT THE UTMOST CARE BE TAKEN WHEN PERFORMING THE DEMOLITION WORK. PROVIDE BARRICADES, BARRIERS, AND SHIELDING WHERE REQUIRED TO PROTECT THE PUBLIC, PERSONNEL, CONSTRUCTION AND VEGETATION TO REMAIN. COMPLY WITH ALL STATE AND LOCAL AGENCY REQUIREMENTS.
- PROVISIONS SHALL BE MADE TO ALLEVIATE THE SPREAD OF DEBRIS, DIRT, AND DUST TO THE ADJACENT PROPERTIES. THE PROPERTY SHALL BE KEPT AS CLEAN AS POSSIBLE AT ALL TIMES. MAINTAIN HAULING ROUTES CLEAN AND FREE OF ANY DEBRIS RESULTING FROM DEMOLITION WORK ON THIS PROJECT. ANY HAZARDOUS MATERIAL REMOVAL, SUCH AS ASBESTOS REMOVAL, SHALL BE PERFORMED PRIOR TO ANY DEMOLITION ACTIVITY. THE HAZARDOUS MATERIAL REMOVAL SHALL BE PERFORMED BY A LICENSED ABATEMENT COMPANY.
- THE REFUSE RESULTING FROM ANY CLEARING AND GRUBBING AND ALL DEBRIS AND MATERIALS FROM THE STRUCTURE(S) TO BE DEMOLISHED SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER CONSISTENT WITH ALL GOVERNMENT REGULATIONS. IN NO CASE SHALL REFUSE MATERIAL BE LEFT ON THE PROJECT SITE, PUSHED ONTO ADJUTING PRIVATE PROPERTIES, OR BE BURIED IN EMBANKMENTS OR TRENCHES ON THE PROJECT SITE. DEBRIS SHALL NOT BE DEPOSITED IN ANY STREAM, LAKE, WETLAND, BODY OF WATER, OR IN ANY STREET OR ALLEY, OR UPON ANY PRIVATE PROPERTY EXCEPT BY WRITTEN CONSENT OF THE PRIVATE PROPERTY OWNER. NO RECLAIMED LUMBER OR MATERIALS SHALL BE RE-USED EXCEPT AS SPECIFICALLY APPROVED BY THE ARCHITECT OR OWNER.
- WHERE DEMOLITION AND CUTTING WORK HAS OCCURRED OR WHERE EXISTING SURFACES, MATERIALS, OR OTHER ITEMS HAVE BEEN DAMAGED OR DISTURBED AS A RESULT OF THE CONTRACTED WORK, THE SAID SURFACES AND AREAS SHALL BE CAREFULLY CLOSED UP, PATCHED, REPAIRED, FINISHED, OR RESTORED AS REQUIRED TO BE CONTIGUOUS TO EXISTING SURROUNDING SURFACES.
- ALL MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION, INCLUDING GAS LINE REMOVAL IS TO BE PERFORMED BY A CONTRACTOR OR SUB-CONTRACTOR LICENSED IN THE PARTICULAR TRADE.

TOWN NOTES:
 THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L.6M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK

SITE/CIVIL CONSTRUCTION SEQUENCING:

- INSTALL SILT FENCE, EROSION CONTROL, AND CONSTRUCTION FENCE
- PERFORM DEMOLITION AS PER SPECIFICATIONS
- REMOVE ALL DEBRIS AS PER SPECIFICATION
- INSTALL ALL ADDITIONAL EROSION CONTROL AND STABILIZATION OF DEMO AREAS
- REMOVE CONSTRUCTION FENCING, ENSURE PROPER MAINTENANCE OF SILT FENCING
- INSTALL SUBSURFACE UTILITIES (SEPTIC SYSTEM) & ROUGH SITEWORK (MINOR REGRADING) PROVIDE TEMP. SEEDING / SODDING & EROSION CONTROL MEASURES
- CONSTRUCTION OF SURFACE SITE STRUCTURES, MANHOLES & UTILIZATION OF TEMPORARY STAGING AREA
- REMOVE EXISTING PARKING / STAGING AREA
- INSTALL SITE WALLS & PERFORM FINISH GRADING
- REMOVE TEMP. EROSION CONTROL MEASURES, INSTALL NEW PAVEMENT & PERMANENT LANDSCAPING, SITE STABILIZATION (80% UNIFORM DENSITY OF VEGETATION) MUST BE ACHIEVED PRIOR TO REMOVING TEMPORARY EROSION CONTROL MEASURES.

DRAWING LIST

C207	TITLE PAGE AND NOTES
C100	SITE PLAN
C110	PLANTING PLAN
C200	SEPTIC DETAILS
C210	CIVIL DETAILS
C300	STORMWATER MANAGEMENT
C300	EROSION CONTROL DETAILS
C400	RETAINING WALL STRUCT PART PLAN
S300	RETAINING WALL DETAILS

SANITARY SEWER LINE REQUIREMENTS

- CLEANOUTS SHALL BE PROVIDED ON SEWER LINES WHEREVER A GRADE CHANGE OR ALIGNMENT CHANGE IS MADE. (SEE CLEANOUT DETAIL FOR MORE INFO)
- SEWER LINES SHALL BE SEPARATED FROM POTABLE WATER LINES BY A MINIMUM OF 10' HORIZONTAL
- SEWER LINES CROSSING POTABLE WATER LINES MUST BE LAID A MINIMUM OF 18" BELOW WATER LINES. WATER LINE JOINTS MUST BE MINIMUM 10' FROM POINT OF CROSSING. SEWER LINES ARE TO BE CONSTRUCTED TO STANDARDS EQUIVALENT TO WATER MAIN SPECIFICATIONS AND SHALL BE PRESSURE TESTED PRIOR TO BACKFILLING.
- GRAVITY LINES SHALL BE A MINIMUM OF 4" Ø
- LINES MUST BE OF CAST-IRON PIPE FOR A MINIMUM DISTANCE OF 2' BEYOND FOUNDATION WALL
- GRAVITY LINES TO BE PITCHED MINIMUM 1/4" VERTICAL PER 1' HORIZONTAL.
- TRENCHES ARE TO BE FIRMLY TAMPED BY HAND ABOUT THE PIPE.

MUNICIPAL NOTES

- AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES AND VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGETOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING, SUPERINTENDENT OF HIGHWAYS AND THE OFFICE OF BUILDING, ZONING AND PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY AND OBLIGATION OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.
- STORMWATER MANAGEMENT PHASE II REGULATIONS: ADDITIONAL CERTIFICATION, BY AN APPROPRIATE LICENSED OR CERTIFIED DESIGN PROFESSIONAL SHALL BE REQUIRED FOR ALL MATTERS BEFORE THE PLANNING BOARD INDICATING THAT THE DRAWINGS AND PROJECT ARE IN COMPLIANCE WITH THE STORMWATER MANAGEMENT PHASE II REGULATIONS.
- ALL OUTDOOR CONSTRUCTION ACTIVITIES, INCLUDING SITE CLEARING OPERATIONS IF APPLICABLE, SHALL TAKE PLACE BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM, MONDAY THROUGH SATURDAY. NO SUCH ACTIVITIES SHALL TAKE PLACE ON SUNDAY OR A LEGAL HOLIDAY. THE SAME CRITERIA SHALL APPLY TO INDOOR CONSTRUCTION ACTIVITIES, EXCEPT THAT SUCH ACTIVITIES MAY TAKE PLACE BETWEEN THE HOURS OF 7:00 AM AND 10:00 PM.
- LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED
- ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
- THE TOWN OF ORANGETOWN SEWER INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY AND ALL CONSTRUCTION ON OR NEAR EXISTING AN PROPOSED SANITARY SEWER FACILITIES
- AL OF THE CONDITIONS OF THIS DECISION SHALL BE BINDING UPON THE OWNER OF THE SUBJECT PROPERTY, ITS SUCCESSORS AND/OR ASSIGNEES, INCLUDING THE REQUIREMENT TO MAINTAIN THE PROPERTY IN ACCORDANCE WITH THE CONDITIONS OF THE RELEVANT PLANNING BOARD DECISIONS.

ARCHITECTURAL AND COMMUNITY APPEARANCE BOARD OF REVIEW

THE ACABOR APPLICATION APPROVED 4/7/2022 WITH CONDITIONS:

- RETAINING WALLS AND DECORATIVE STONE ON THE HOUSE TO BE CONSISTENT
- LIGHTING AT ROOF PLACED ON BULKHEAD APPROXIMATELY WAIST HIGH
- DRIVEWAY TO BE PAVERS. IF ASPHALT, REVISED PLANS TO BE PROVIDED TO BUILDING INSPECTOR

UTILITY NOTE

- CONTRACT TO CONTACT ORANGE AND ROCKLAND NEW BUSINESS DEPARTMENT FOR SERVICE TERMINATIONS AND RELOCATIONS PRIOR TO WORK. ALL CODE 753 RULES MUST BE FOLLOWED

SCOPE OF WORK

THE SCOPE OF WORK IS TO CONSTRUCT A NEW SINGLE-FAMILY RESIDENTIAL DWELLING ON THE EXISTING UNDEVELOPED LOT AT THE REFERENCED ADDRESS. SANITARY SEPTIC SYSTEM, STORMWATER RETENTION & INFILTRATION MANAGEMENT SYSTEM, SEDIMENT & EROSION CONTROL, AND SITE GRADING DESIGNS HAVE BEEN PREPARED.

AREA OF DISTURBANCE: 12,500 SF

SURVEY INFORMATION
 TOPOGRAPHICAL SURVEY PROVIDED BY SPARACO & YOUNGBLOOD, PLLC
 SURVEY DATED: FEBRUARY 5, 2020
 FILE # YB-2415
 18 NORTH MAIN ST., P.O. BOX 818
 HARRIMAN, NY 10928
 PHONE: 845 782 8543 EMAIL: WDYLS1@GMAIL.COM

LEGEND:

	PROPOSED SEPTIC COMPONENT
	PROPOSED BED SYSTEM
	IMPERVIOUS ROOF
	BUILDING FOOTPRINT
	GRASS YARD
	EXISTING SITE STRUCTURE
	STORM CATCH BASIN
	ADJACENT BUILDING
	AREA DRAIN
	SEWER CLEANOUT
	PROPERTY LINE
	STORM LINE
	MAJOR TOPO CONTOUR
	MINOR TOPO CONTOUR
	PROPOSED TOPO CONTOUR
	10' OFFSET FROM COMPONENT
	AREA OF WORK (12,500 SF)
	SILT FENCE
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	12' Maple
	STRAW BALES
	SILT FENCE
	STOCKPILED SOIL
	GRAVEL APRON FOR STABILIZED CONSTRUCTION ENTRANCE
	DRIVEAWAY STATION

COUNTY OF ROCKLAND HEALTH DEPARTMENT REQUIREMENTS

- Inspection fee to be made out to the Rockland County Commissioner of Finance.
- This department must be contacted to inspect the excavation prior to the installation of the select fill.
- Copies of the material delivery tickets for the select fill are to be submitted, showing the mix, quantity and with the correct property address.
- This department must be contacted to inspect the installation prior to when the system elements are covered over, including the piping and all joints.
- The department must witness the testing of the pump system, including an alarm test and dosing of the bed.
- As-built review. The applicants contractor must submit a line drawing, triangulating the location of the system elements to the main house and other permanent structures.

STORM WATER SYSTEM CLEANING AND MAINTENANCE:

STORM WATER SYSTEM SHOULD BE CLEANED OF LEAVES, SAND, DIRT, SEDIMENT, TRASH AND OTHER DEBRIS BY HAND OR BY VACUUM TRUCK. THE SYSTEM IS TO BE EVALUATED, CLEANED AND MAINTAINED AT LEAST TWO TIMES PER YEAR. SURFACE GRATES AND INTERIOR SUMP SHOULD BE MAINTAINED TO FUNCTION AS ORIGINALLY DESIGNED. SEE MAINTENANCE PLAN ON FILE WITH BOTH THE PROPERTY OWNER AND THE LOCAL BUILDING DEPARTMENT FOR MORE DETAILS.

ENGINEERED FILL

BANKRUN SAND & GRAVEL SHALL BE OBTAINED FROM AN APPROVED COMMERCIAL MANUFACTURER AND SHALL HAVE A PERCOLATION RATE OF LESS THAN 5 MIN / INCH & GREATER THAN 1 MIN / INCH. THE SUPPLIER SHALL PROVIDE A WRITTEN ANALYSIS AND CERTIFY TO THE ROCKLAND COUNTY HEALTH DEPARTMENT AND TO THE DESIGN ENGINEER THAT THE MATERIAL DELIVERED TO THIS SITE HAS BEEN MANUFACTURED BY THEM AND MEETS THE DESIGN ENGINEERS SPECIFICATION FOR BANKRUN SAND & GRAVEL. THE CONTRACTOR SHALL EXCAVATE THE ABSORPTION BED AREA TO DESIGN DEPTH AND HAVE THE EXCAVATION INSPECTED AND APPROVED BY THE ROCKLAND COUNTY HEALTH DEPARTMENT PRIOR TO PLACEMENT OF THE BANKRUN SAND & GRAVEL.

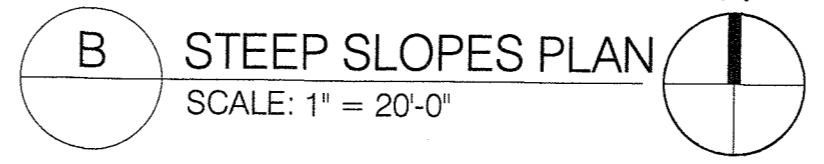
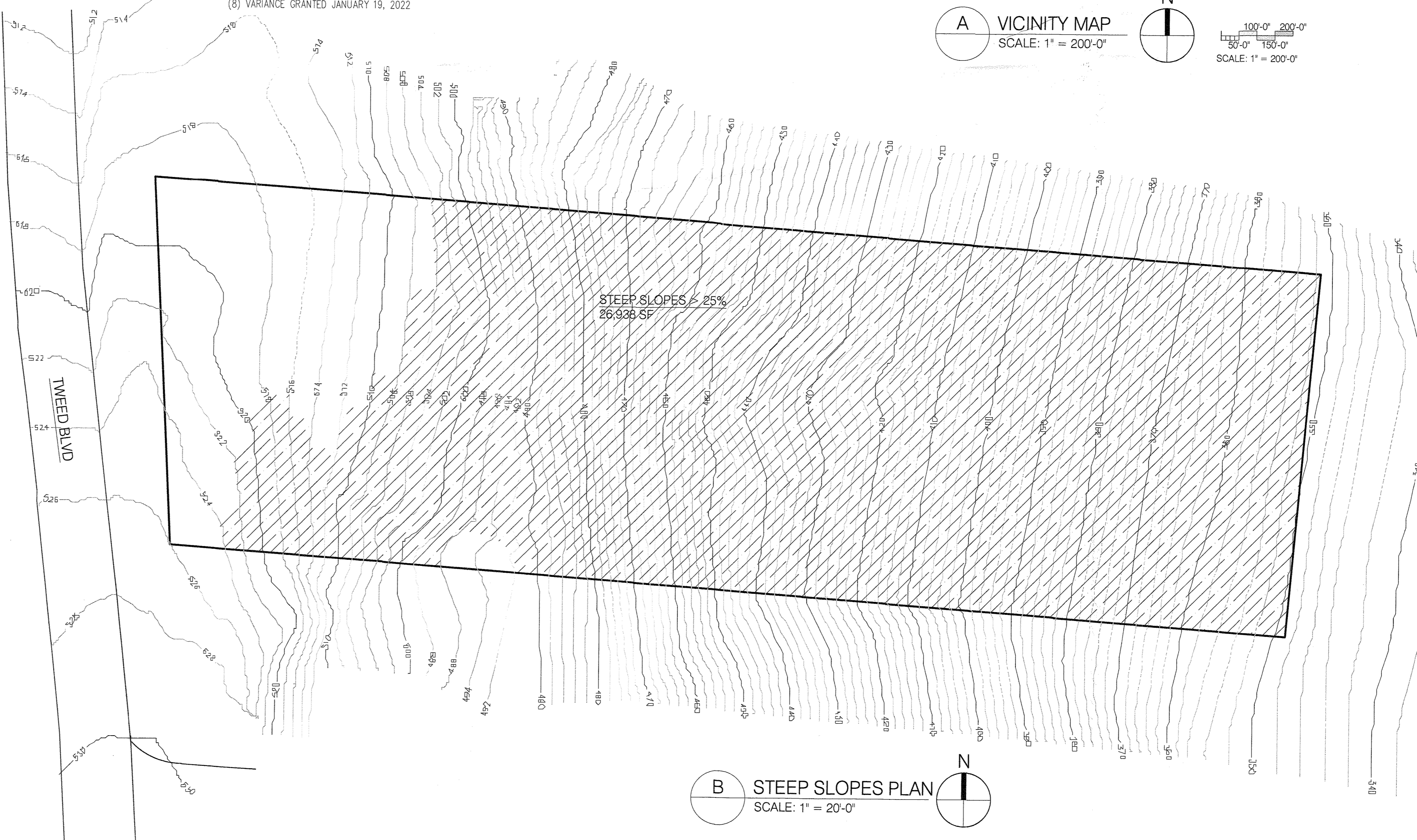
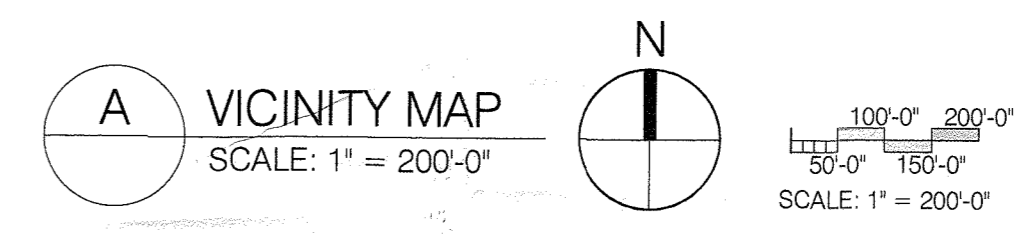
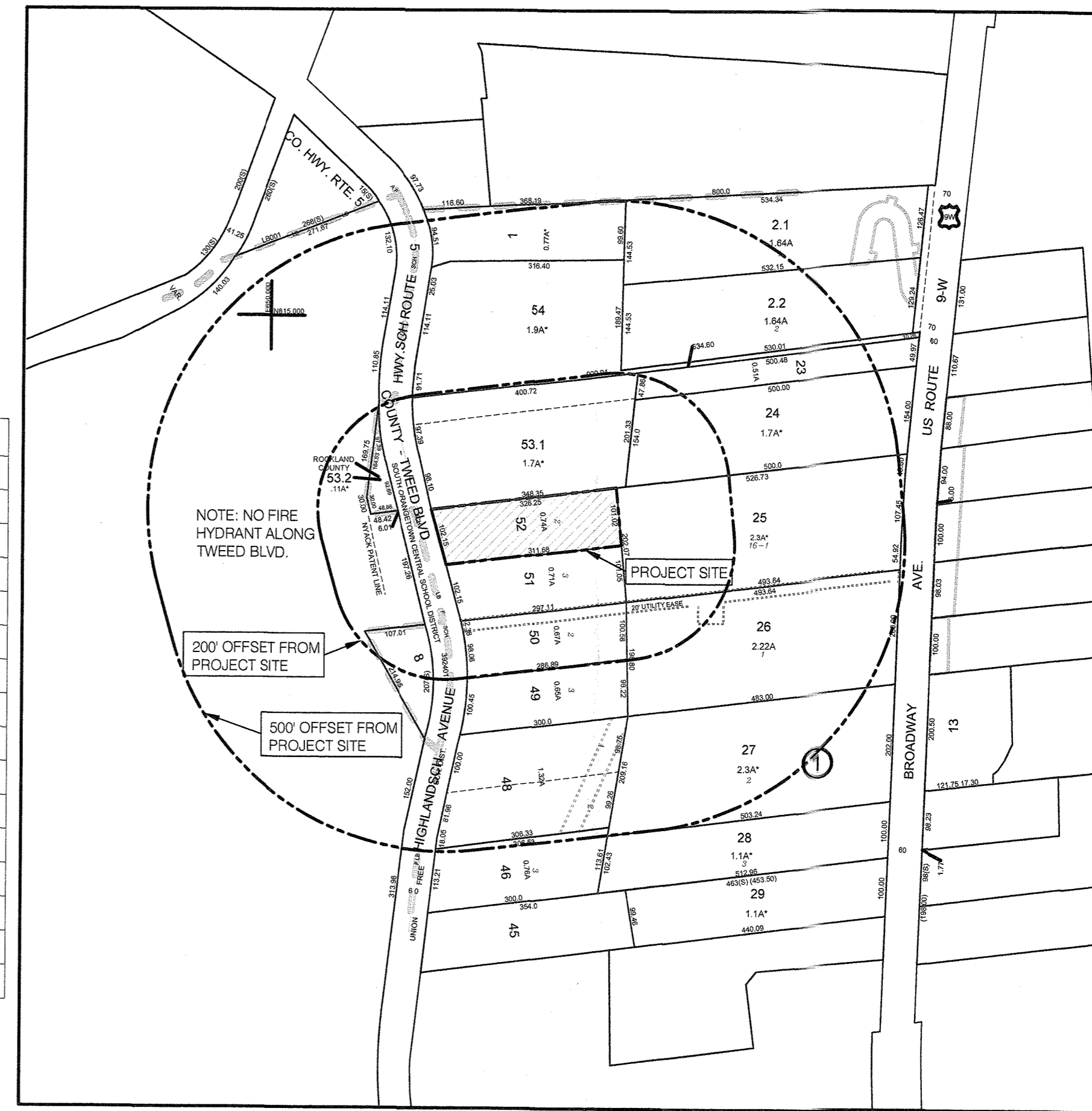
SEPTIC CONSTRUCTION NOTES

- HEAVY CONSTRUCTION EQUIPMENT SHALL BE KEPT OUTSIDE THE PROPOSED BOTTOM AREA OF THE BED
- THE REQUIRED BED BOTTOM AREA IS EXCAVATED AS LEVEL AS PRACTICAL. THE BOTTOM AND SIDES OF THE EXCAVATION ARE HAND RAKED TO REDUCE SOIL SHEARING
- AFTER EXCAVATIONS A SIX-INCH LAYER OF AGGREGATE BELOW PIPE AND COVERED WITH AGGREGATE TO A LEVEL TWO INCHES ABOVE THE TOP OF THE PIPE
- THE ENTIRE AREA IS TO BE COVERED WITH A PERMEABLE GEOTEXTILE

ZONING INFORMATION: 11 TWEED BOULEVARD -- R22 ZONE

CATEGORY:	REQUIRED/ALLOWED:	PROPOSED:	VARIANCE:
LOT SIZE (EXISTING):	22,500 SQUARE FEET	32,268 SQUARE FEET	-
LOT WIDTH (EXISTING):	125.00 FEET	101.00 FEET	YES (1)
LOT FRONTAGE (EXISTING):	75.00 FEET	102.15 FEET	NO
AREA OF SLOPES > 25%:	-	26,938 SQUARE FEET	-
COUNTED LOT AREA	22,500 SQUARE FEET	18,799 SQUARE FEET	YES (8)
FLOOR AREA RATIO	20.00% 3,759.8 SQ FT	28.32 % 5,323 SQ FT	YES (8)
BUILDING COVERAGE (BUILDING):	-	2,021 SQUARE FEET	-
IMPERVIOUS COVERAGE (2)	-	5,603 SQUARE FEET	-
FRONT YARD:	40.00 FEET (3)	30.00 FEET	YES (8)
LEFT SIDE YARD:	20.00 FEET MIN. (4)	20.07	NO
RIGHT SIDE YARD:	20.00 FEET MIN. (4)	20.17 FEET	NO
COMBINED SIDEYARDS:	40.00 FEET (6)	40.24 EET	NO
REAR YARD:	45.00 FEET	244.50 FEET	NO
MAX BUILDING HEIGHT:	20.00 FEET (7)	36.17 FEET (5)	YES (8)
PARKING	2.00 SPACES	2.00 SPACES	NO

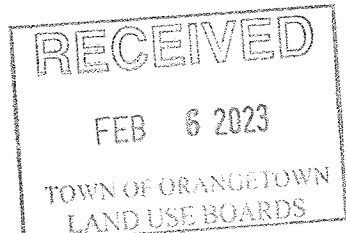
- VARIANCE WAS GRANTED BY ZONING BOARD 5-01-2002 (ZBA# 10-53)
- INCLUDES BUILDING COVERAGE
- AS PER dh 43, 5.111 & COUNTY
- ADJUSTED IN ACCORDANCE WITH 5.21 (b)
- MEASURED TO ELEVATOR BULKHEAD
- ADJUSTED IN ACCORDANCE WITH 5.21 (b) 60.00 FT REQUIREMENT REDUCED BY 20 FT TO 40 FT
- ADJUSTED IN ACCORDANCE WITH 5.21 (e)
- VARIANCE GRANTED JANUARY 19, 2022



KRYPTON ENGINEERING
 527 W 49th St. Grand Fir
 NEW YORK NY 10036
 (917) 475-6138
 KRYPTONENG.COM

REVISIONS:

03/25/20	CLIENT REVIEW
04/18/20	CLIENT REVIEW
04/17/20	SCHEMATIC PLANS & ELEVATIONS
06/24/20	REV'D SCHEMATIC PLANS & ELEV
08/10/20	INITIAL ZONING REVIEW
09/30/20	REVISED ZONING REVIEW PLANS
04/21/21	REV'D ZONING - POOL LOCATION
05/18/21	REVISED ZONING SUBMISSION
07/28/21	APPROVED BY PLANNING
08/03/21	FOR ZONING BOARD
11/11/21	FOR ZONING BOARD
02/01/2023	REVISED PLANNING SUBMISSION



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PROJECT:
 11 TWEED BLVD.
 UPPER GRANDVIEW, NY

NOTES & SLOPE ANALYSIS

SEAL & SIGNATURE:

JOREL J. VACCARO, PE
 NY PE 093362

DATE: 02/01/2023
 PROJECT #: 20001
 DRAWN/CHECKED: JUV
 SCALE: NOTED
 PAGE: 01 OF 09

C-001

REVISIONS:

03/25/20	CLIENT REVIEW
04/8/20	CLIENT REVIEW
04/17/20	SCHEMATIC PLANS & ELEVATIONS
06/24/20	REV'D SCHEMATIC PLANS & ELEV
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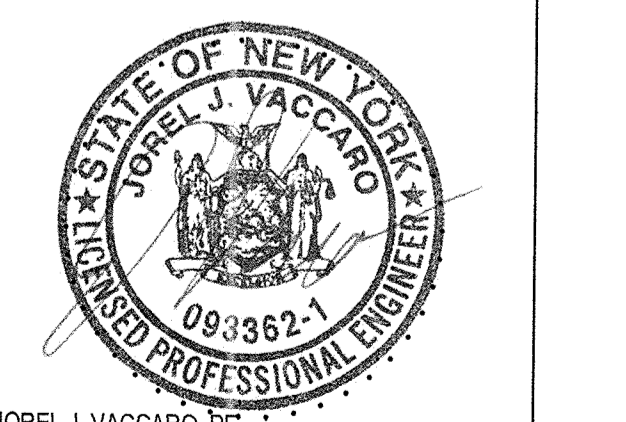
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PROJECT:
**11 TWEED BLVD.
 UPPER GRANDVIEW, NY**

SITE PLAN

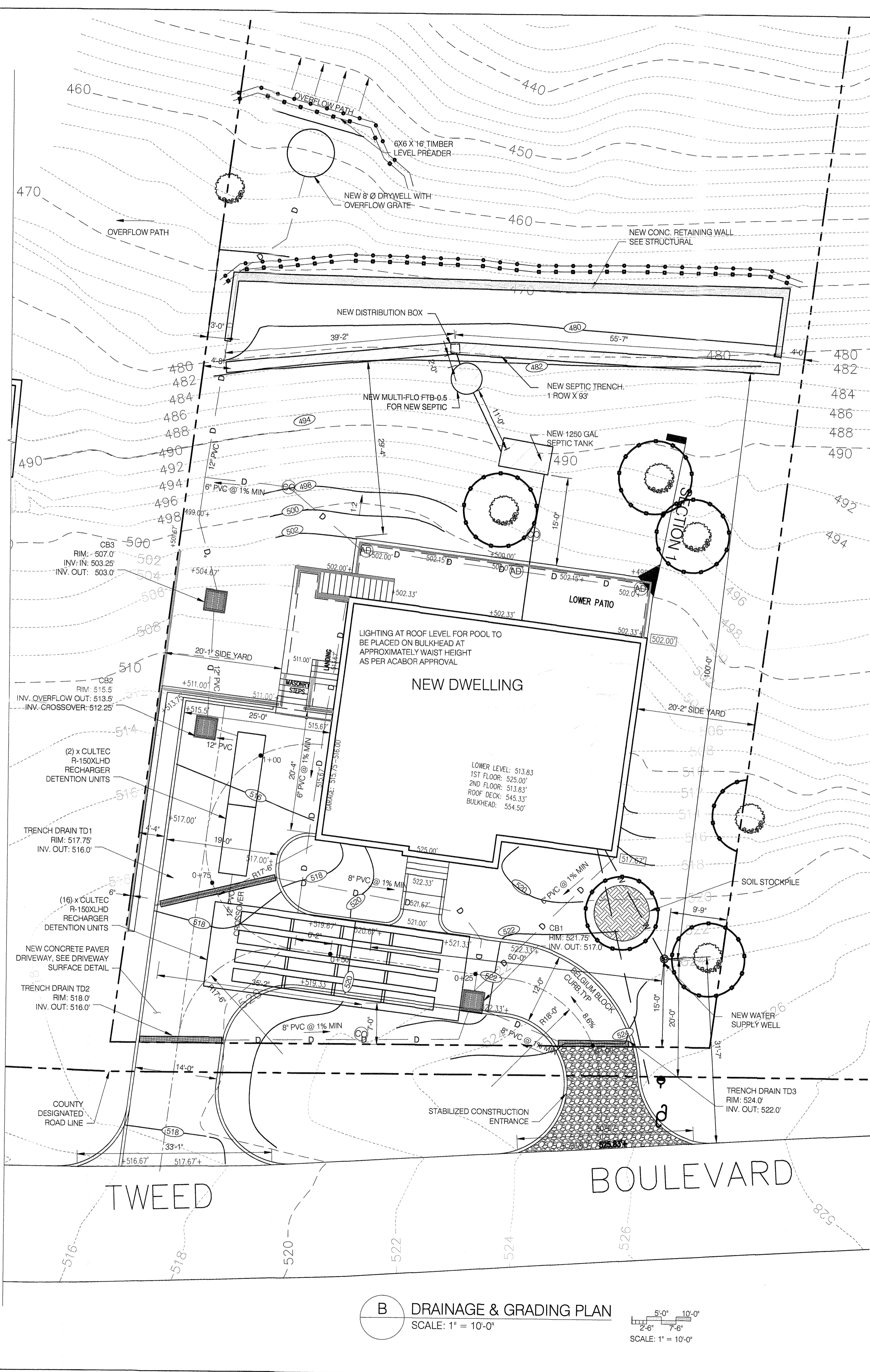
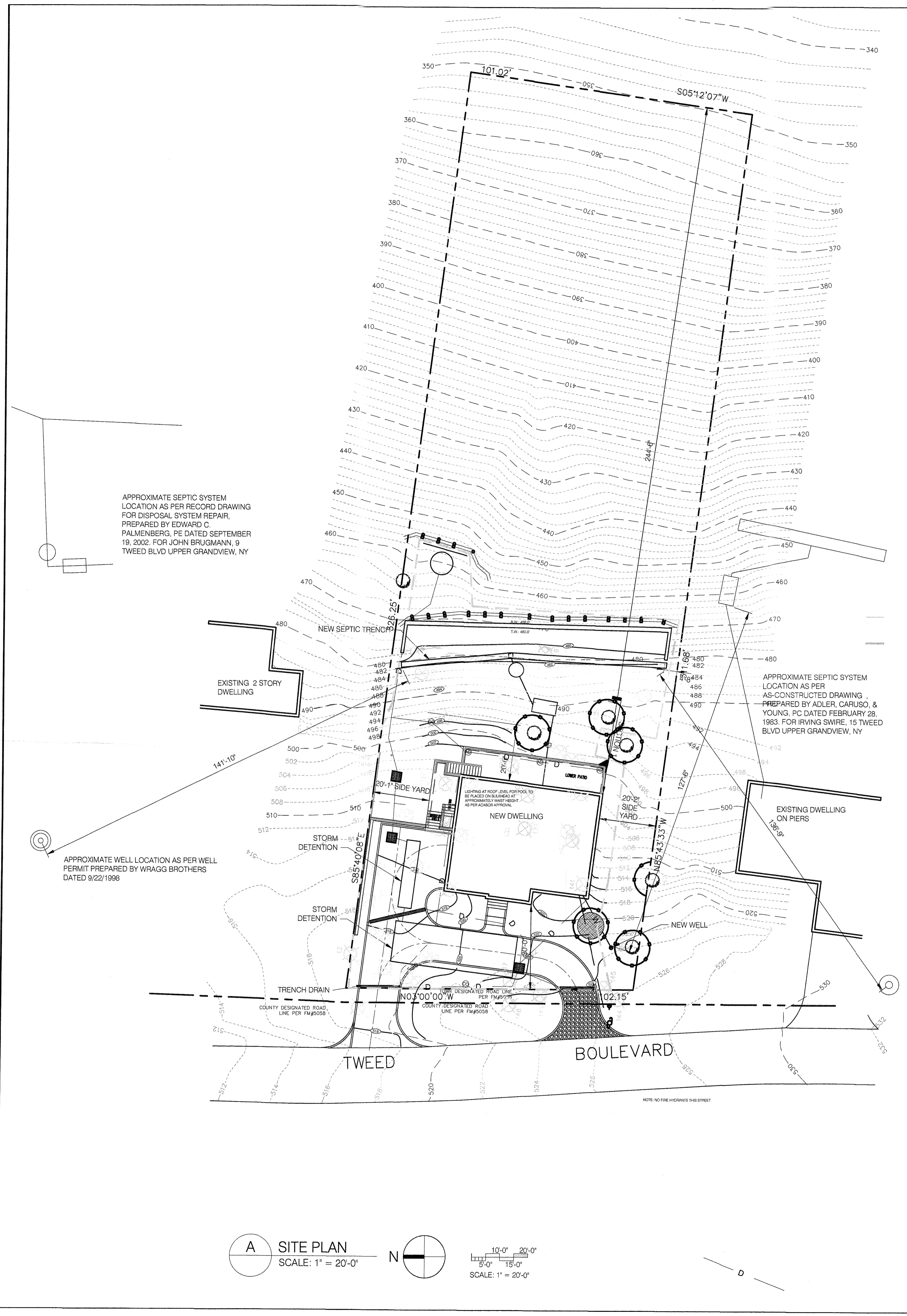
SEAL & SIGNATURE:



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 NY PE 093362

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE ADMINISTRATIVE CODES.

DATE: 02/01/2023
 PROJECT #: 20001
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 SCALE: NOTED
 PAGE: 02 OF 09



PLANTING & LANDSCAPING NOTES

- All planting shall be placed under the direction of the Design Professional. Give 48 hours notice before planting. Final configuration upon review and coordination with neighboring property owner.
- All plants shall be nursery-grown plants and workmanship shall conform to the American Association of Nurserymen Standards and shall be subject to the approval of the Design Professional before and after planting.
- Guarantee all plants and workmanship for a period of two planting seasons. (One full year)
- Place 4" of topsoil on all lawn areas and all areas not paved or built upon.
- Plant pits shall be 36" wider for trees (minimum of two times root ball diameter) and 24" wider for shrubs, and as deep as the root ball. Set plants at same level as originally grown on base of undisturbed soil. The trunk flare and root collar shall be visible at the top of the plant bed at the time of final inspection. Remove all existing soil from plant pit and backfill with a mixture of one part peat humus, one part dehydrated cow manure, and four parts topsoil. Fertilize all plants with 2 to 3 oz. per foot of shrub height and 2 to 3 lbs. per inch of tree trunk of 5-10-5 fertilizer. For evergreen planting, add 1 lb. Per 100 square feet of plant bed each of ammonium sulfate and superphosphate. Loosen soil around edges of plant pit.
- Fertilize areas before seeding or sodding with 15 lbs. per 1000 square feet of 10-20-10 fertilizer or approved equivalent. Repeat after 8 weeks.
- Mulch all plants and planted areas with a 4" depth of shredded pine, oak bark or other shredded bark, treated for fire repellency. Do not place mulch against tree or shrub trunk. The trunk flare and root collar shall be visible at the top of the plant bed with no mulch against trunk. Do not create mound of mulch around tree. Finish grade to be same as originally grown.
- Lawn areas shall be seeded at 5 lbs. per 1000 square feet with the following seed mixture: 20% Jamestown II Chewings Fescue, 60% Baron Kentucky Bluegrass, and 20% Palmer II Perennial Rye, or approved equivalent. Mulch newly seeded lawn at 90 lbs. per 1000 square feet with hay or straw mulch.
- The contractor is responsible to plant the total quantities of all plants shown on the planting plan. The quantities of planting shown graphically on the plan shall govern.
- Existing trees shown on this plan are to remain undisturbed. All existing trees shown to remain are to be protected with a 6-foot high wooden fence with posts placed at the drip line of the branches or at 8 feet minimum from the tree trunk. Any existing tree shown to remain that is removed during construction shall be replaced by a 4" caliper shade tree as directed by the Design Professional. When an area of existing trees is shown to be saved, and an area of such trees has been removed, a 2 1/2" - 3" cal. shade tree shall be replaced for each 200 square feet of area disturbed.

TOWN LANDSCAPING NOTES

THE PLANNING BOARD SHALL RETAIN JURISDICTION OVER LIGHTING, LANDSCAPING, SIGNS, AND REFUSE CONTROL.

TREE REMOVAL / PROTECTION LIST

NO.	DIAMETER	SPECIES	
T1	12"	HICKORY	
T2	14"	CHERRY	
T3	12"	ASH	
T4	12"	OAK	
T5	6"	CHERRY	
T6	8"	HICKORY	
T7	6"	CHERRY	
T8	18"	OAK	
T9	12"	HICKORY	
T10	6"	HICKORY	
T11	8"	CHERRY	
T12	12"	HICKORY	
T13	6"	CHERRY	
T14	18"	OAK	
T15	6"	CHERRY	
T16	8"	HICKORY	
T17	8"	HICKORY	
T18	6"	HICKORY	
T19	12"	OAK	
T20	8"	HICKORY	
T21	14"	HICKORY	
T22	12"	MAPLE	
T23	40"	OAK	
T24	10"	MAPLE	TO REMAIN
T25	10"	MAPLE	TO REMAIN
T26	36"	OAK	
T27	6"	HICKORY	
T28	24"	OAK	
T29	30"	OAK	
T30	8"	HICKORY	
T31	16"	OAK	
T32	10"	CHERRY	
T33	16"	OAK	
T34	12"	HICKORY	
T35	10"	OAK	
T36	24"	OAK	
T37	16"	QUAD	MAPLE
T38	8"	TWIN	OAK
T39	8"	TWIN	BASSWOOD
T40	16"	OAK	
T41	12"	TWIN	BASSWOOD
T42	14"	ELM	TO REMAIN
T43	12"	HICKORY	TO REMAIN
T44	18"	TWIN	CHERRY
T45	8"	HICKORY	
T46	18"	HICKORY	
T47	8"	OAK	
T48	12"	CHERRY	

NOTE: ALL TREES LISTED ARE TO BE REMOVED OTHER THAN THOSE NOTED TO REMAIN. REMAINING TREES TO BE PROTECTED

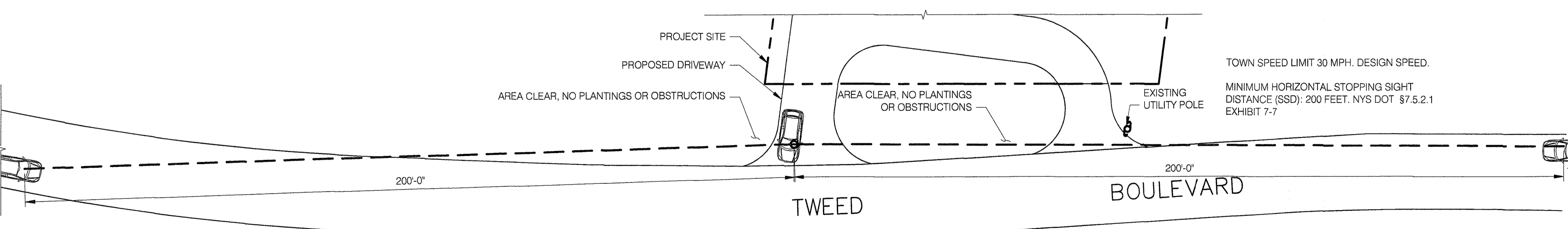
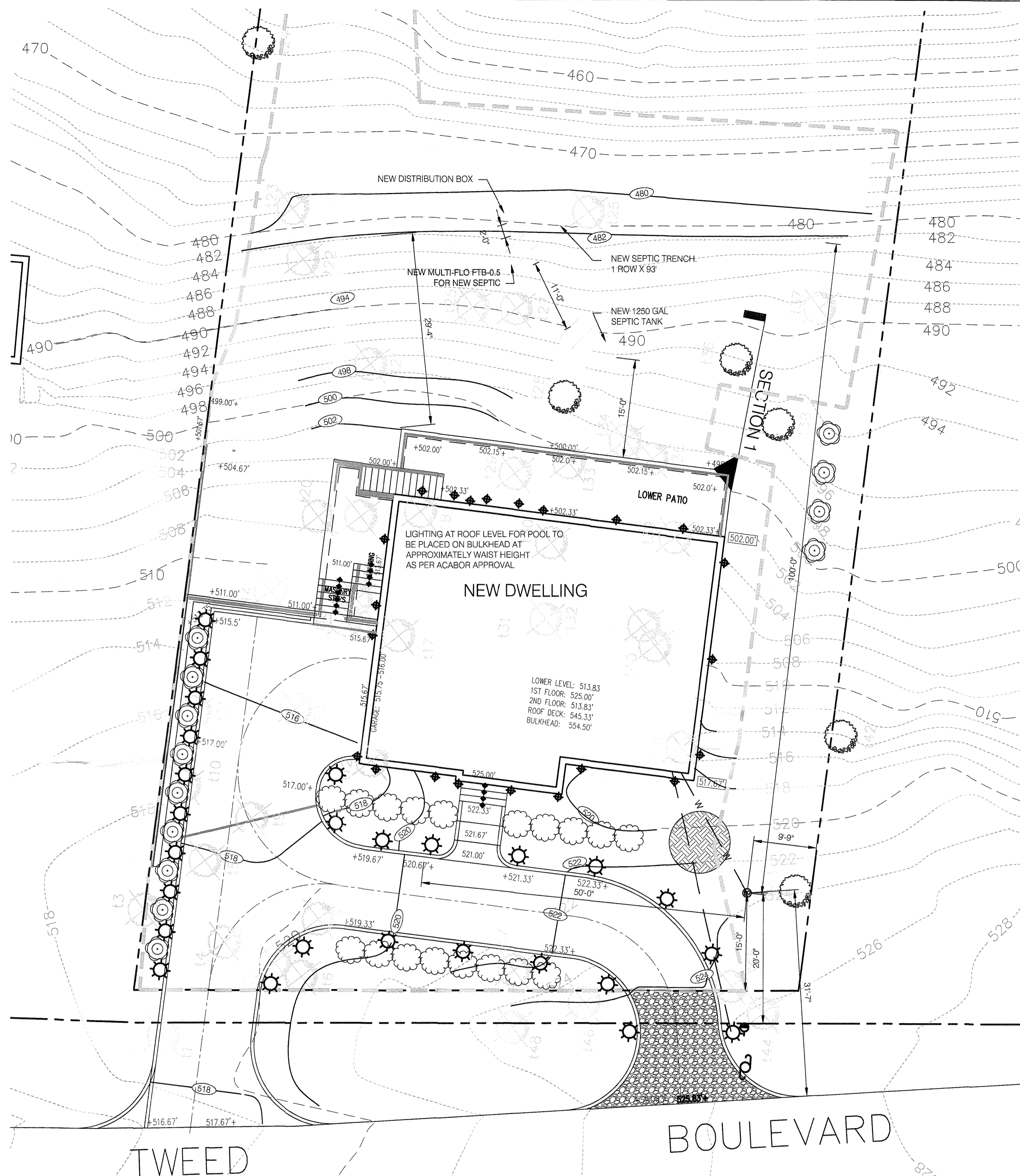
PLANTING SCHEDULE:

NAME	GREEN GIANT ARBORVITAE
SYMBOL	⊙
SCIENTIFIC NAME	(THUJA STANDISHII X PLICATA)
SPACING	PLANTED IN SINGLE ROW, 6 FT ON CENTER
HEIGHT	5 FT IN HEIGHT
QUANTITY	12

NAME	WINTERGREEN BOXWOOD SHRUB
SYMBOL	⊗
SCIENTIFIC NAME	(BUXUS SINICA VAR. INSULARIS WINTERGREEN)
SPACING	PLANTED IN SINGLE ROW, 4 FT ON CENTER
HEIGHT	3 FT IN HEIGHT
QUANTITY	15

LIGHTING SCHEDULE:

TYPE	SYMBOL
LOW VOLTAGE PATH & DRIVE LIGHT	⚙
WALL WASHER	◆
UNDER-TREAD RISER LIGHTING	•



A SIGHT DISTANCE
SCALE: 1" = 20'-0"

B PLANTING PART PLAN
SCALE: 1" = 10'-0"

TOWN SPEED LIMIT 30 MPH. DESIGN SPEED.
MINIMUM HORIZONTAL STOPPING SIGHT DISTANCE (SSD): 200 FEET. NYS DOT §7.5.2.1 EXHIBIT 7-7

REVISIONS:

03/25/20	CLIENT REVIEW
04/8/20	CLIENT REVIEW
04/17/20	SCHEMATIC PLANS & ELEVATIONS
06/24/20	REV'D SCHEMATIC PLANS & ELEV
08/10/20	INITIAL ZONING REVIEW
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04/21/21	REV'D ZONING - POOL LOCATION
05/18/21	REVISED ZONING SUBMISSION
07/28/21	APPROVED BY PLANNING
08/03/21	FOR ZONING BOARD
11/11/21	FOR ZONING BOARD
02/01/2023	REVISED PLANNING SUBMISSION

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PROJECT:
**11 TWEED BLVD.
UPPER GRANDVIEW, NY**

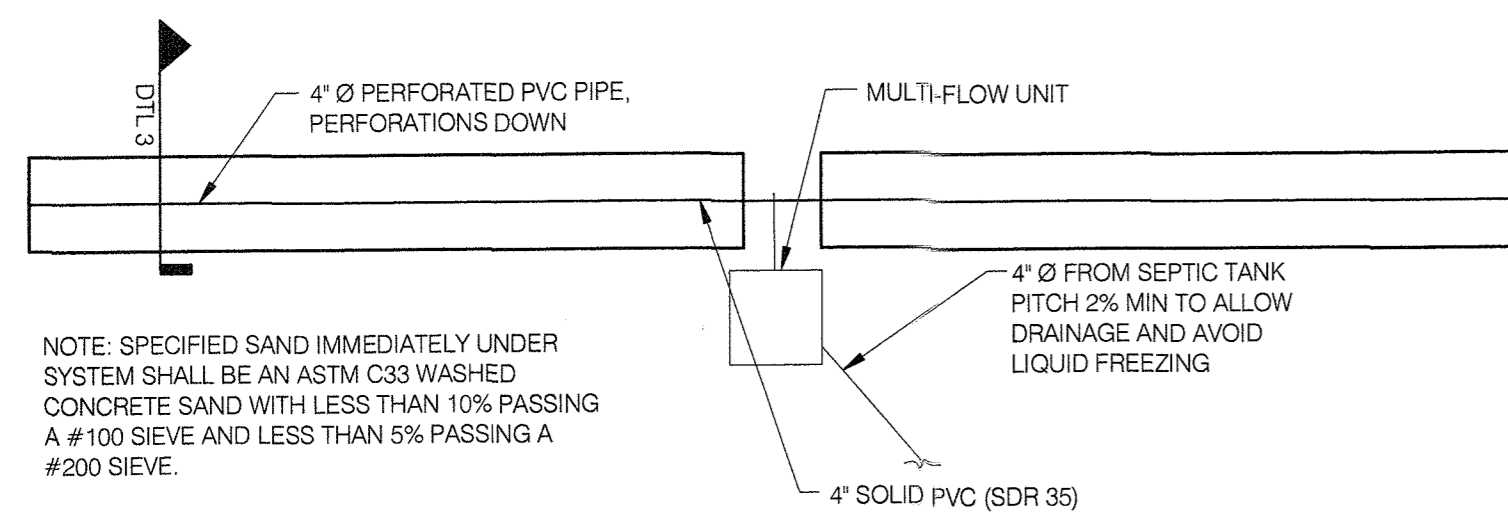
LANDSCAPING & LIGHTING PLAN

SEAL & SIGNATURE:

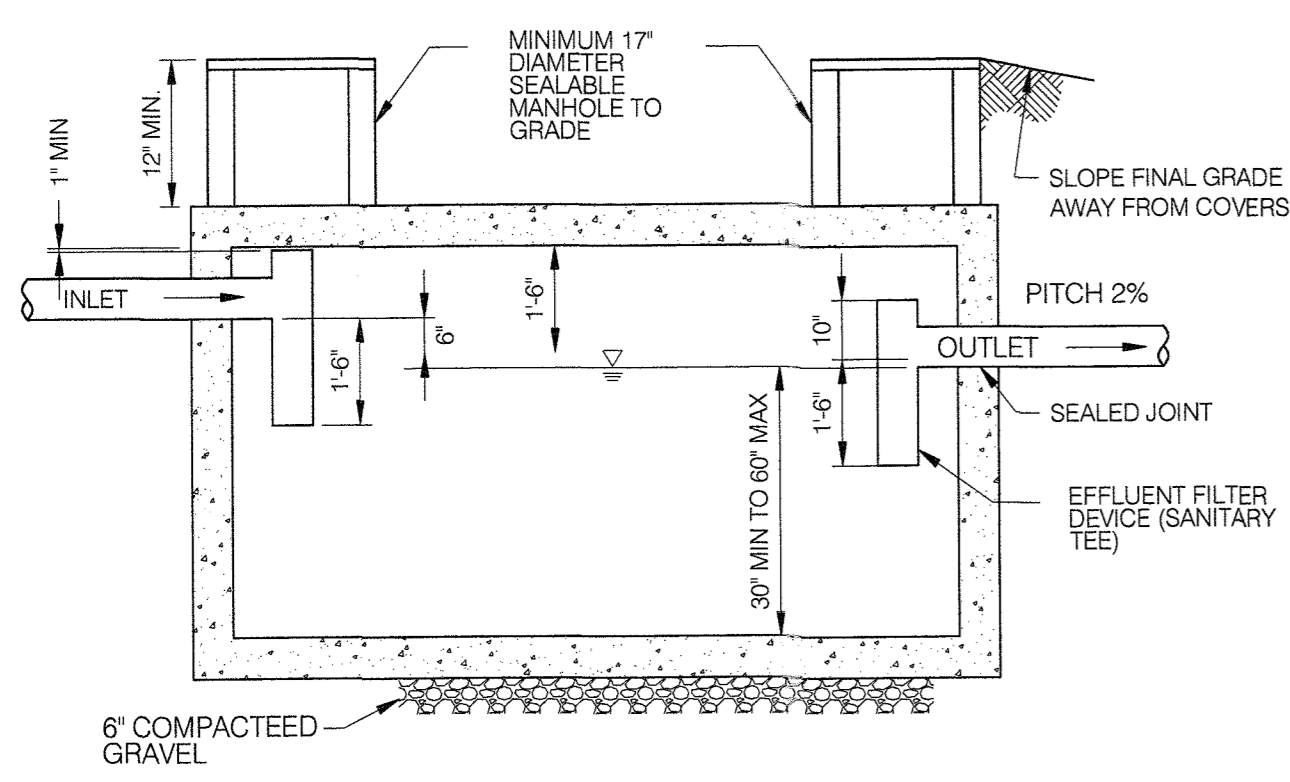
JOREL J. VACCARO, PE
NY PE 093362

TO THE BEST OF THE SIGNING PROFESSIONAL'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

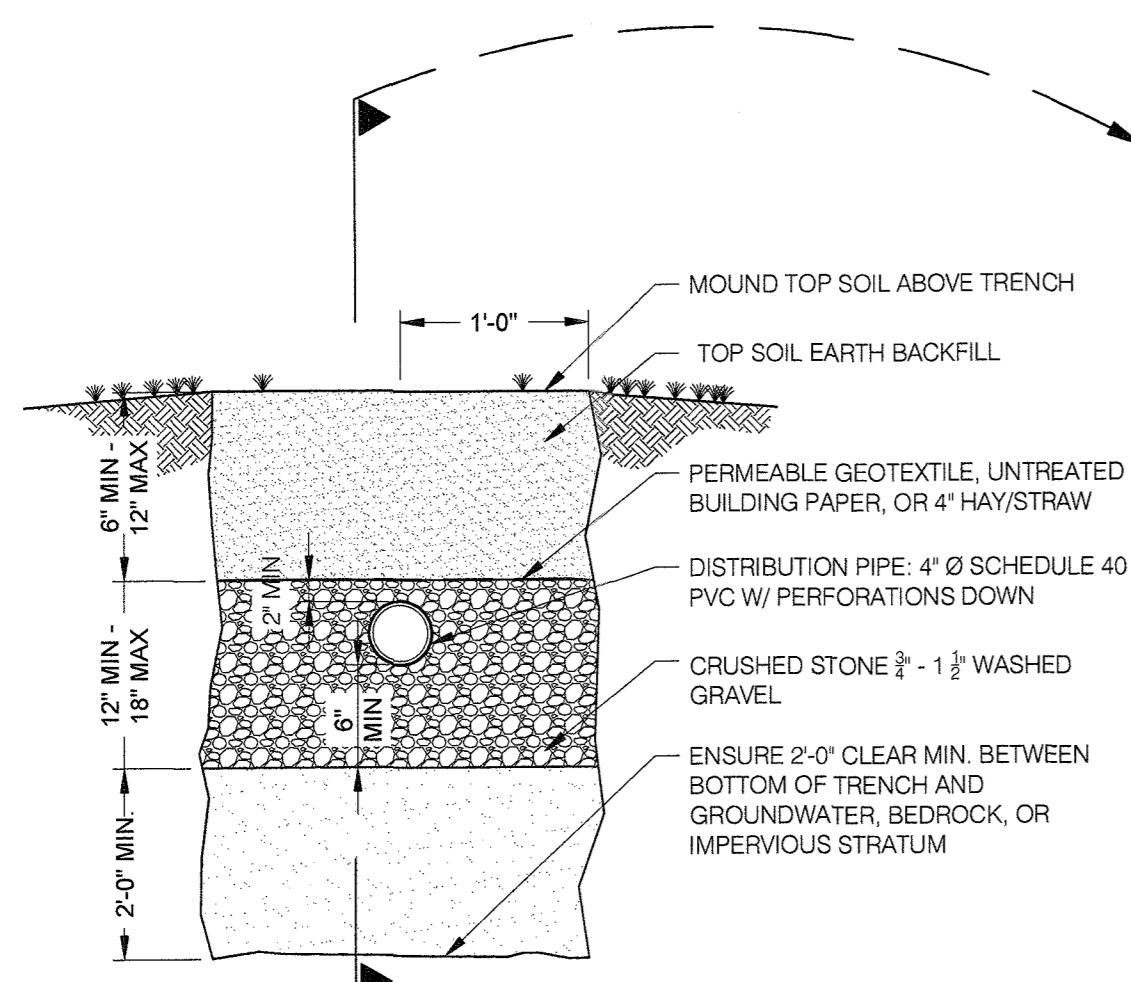
DATE:	02/01/2023
PROJECT #:	20001
DRAWN/CHECKED:	JUV
SCALE:	NOTED
PAGE:	03 OF 09



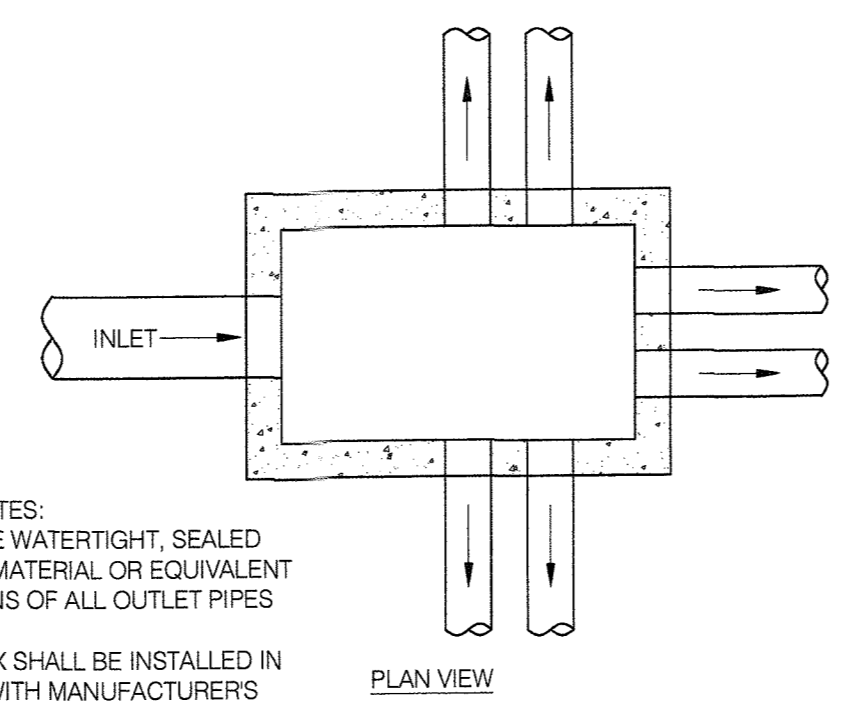
1 TRENCH SYSTEM PLAN
 SCALE: 1/4" = 1'-0"



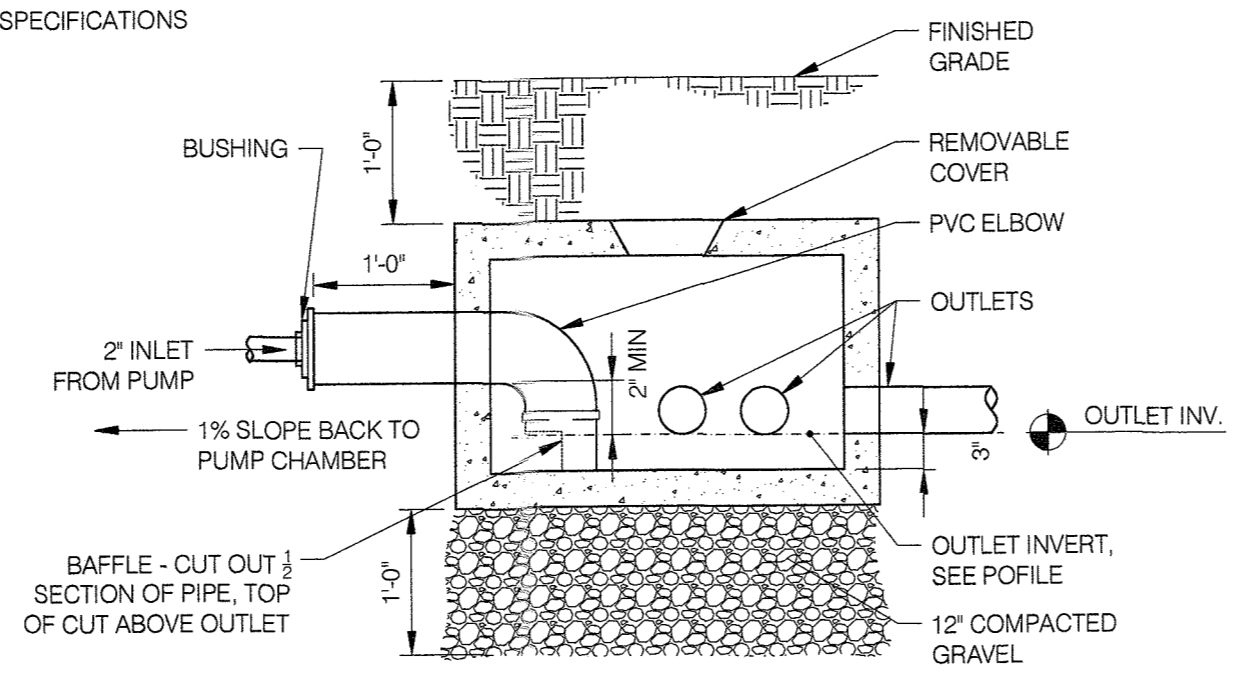
2 TYPICAL SEPTIC TANK SECTION
 SCALE: 3/8" = 1'-0"



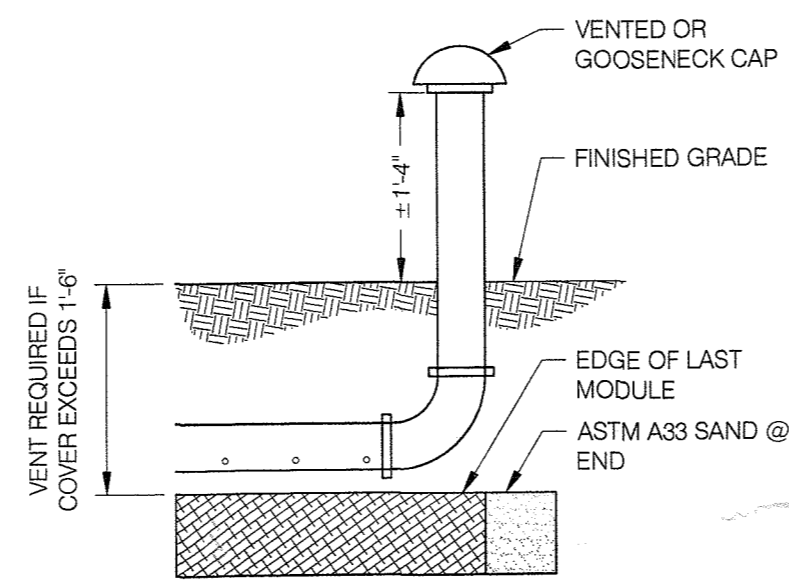
3 ABSORPTION TRENCH DETAIL
 SCALE: NTS



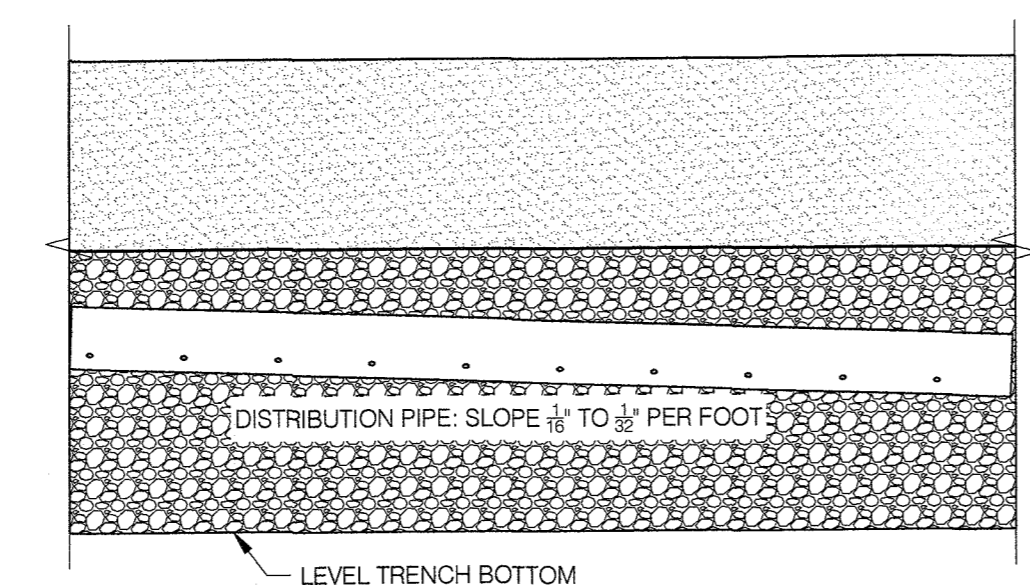
- DISTRIBUTION BOX NOTES:**
1. PIPE JOINTS TO BE WATERTIGHT, SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT. INVERT ELEVATIONS OF ALL OUTLET PIPES MUST BE EQUAL.
 2. DISTRIBUTION BOX SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.



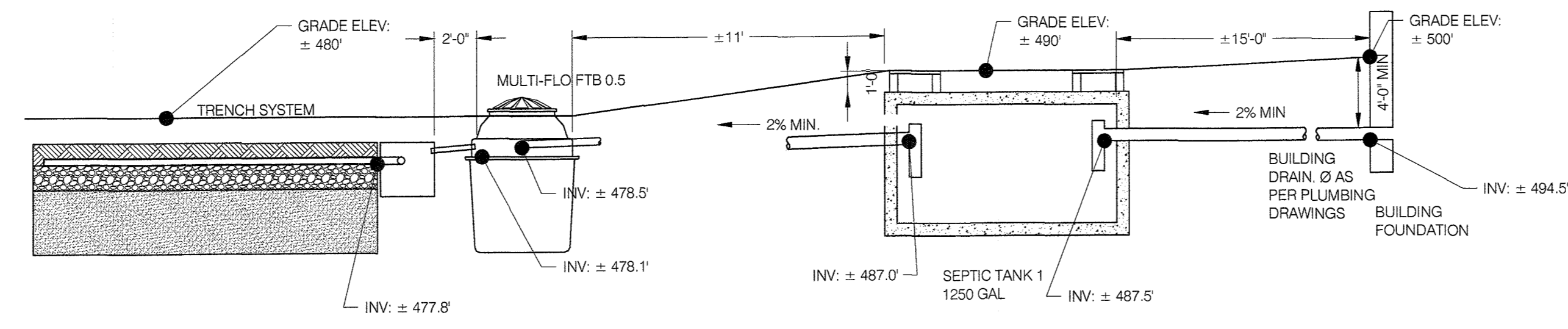
4 DISTRIBUTION BOX
 SCALE: NTS



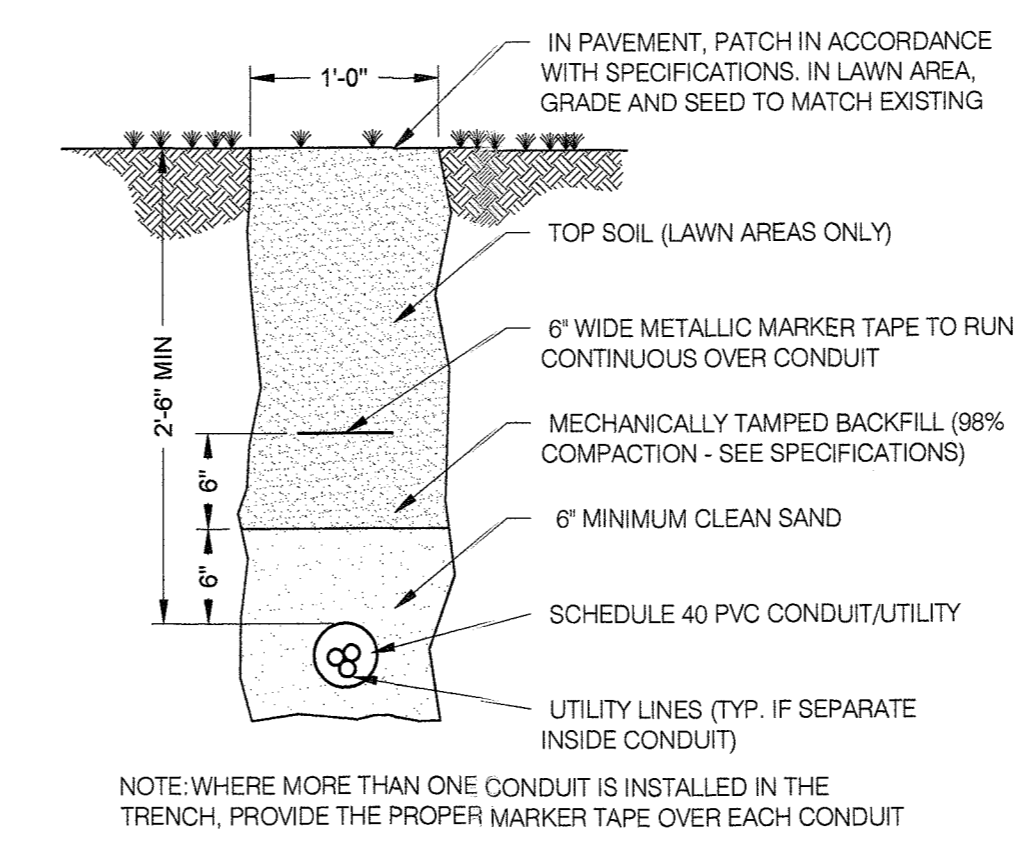
5 VENT DETAIL
 SCALE: NTS



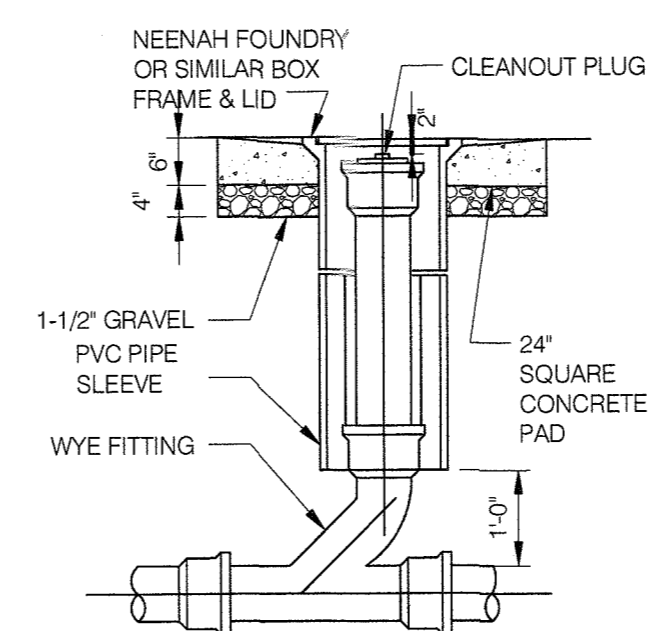
- NOTE:**
1. WORK THIS DETAIL IN CONJUNCTION WITH NYS DESIGN HANDBOOK RESIDENTIAL ON-SITE WASTEWATER TREATMENT SYSTEMS FIGURE 17
 2. 4" MIN SEPARATION BETWEEN TRENCHES (@ C-C SPACING)
 3. PERCOLATION RATE 1-80 MINUTES / INCH
 4. 15% TRANSVERSE SLOPE MAX.



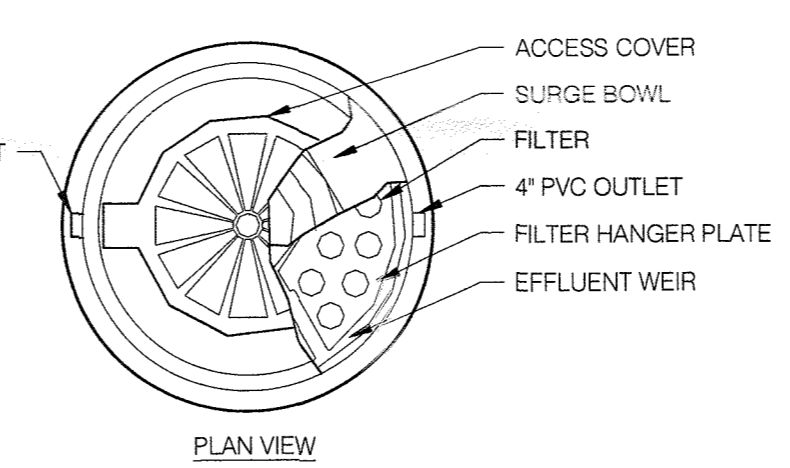
6 SYSTEM PROFILE
 SCALE: NTS



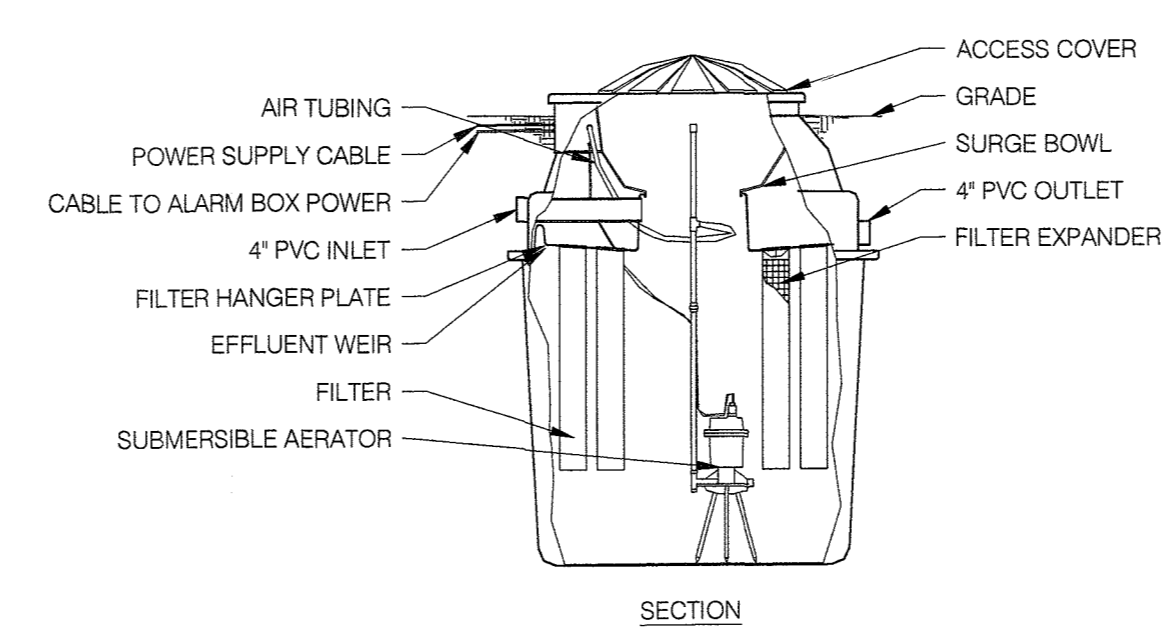
7 TRENCH DETAIL
 SCALE: NTS



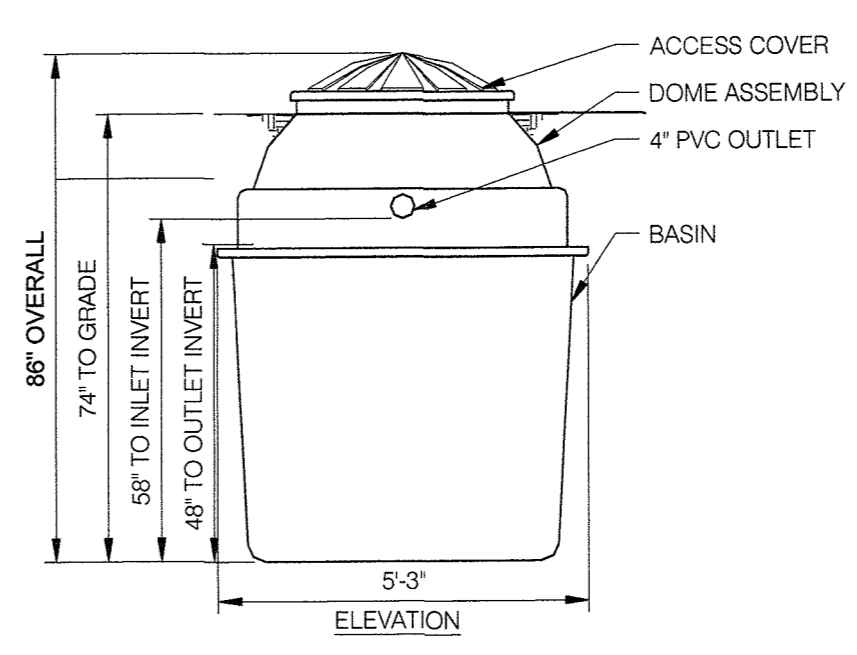
8 CLEANOUT
 SCALE: NTS



NOTE:
 MULTI-FLO FTB-0.5
 BY CONSOLIDATED TREATMENT SYSTEMS, INC.
 1 937 746 2727 WWW.MULTI-FLO.COM



9 MULTI-FLO DETAILS
 SCALE: 3/8" = 1'-0"



MULTI-FLO SYSTEM DESIGN
 3 BEDROOMS
 MULTI-FLO TABLE 4:
 REQUIRED CAPACITY: 500 GPD
 TABLE 1 -> MODEL FTB-0.5

DAILY FLOW RATE:
 110 (NEW CONST) * 3 BEDROOMS
 = 330 GPD

PERC. RATE ENGINEERED FILL:
 1'-5"

ABSORPTION TRENCH
 APDX 75-A, TABLE 4A
 138 FT * 67% = 93 FEET

REVISIONS:

03/25/20	CLIENT REVIEW
04/8/20	CLIENT REVIEW
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06/24/20	REVD SCHEMATIC PLANS & ELEV
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07/28/21	APPROVED BY PLANNING
08/03/21	FOR ZONING BOARD
11/11/21	FOR ZONING BOARD
02/01/2023	REVISED PLANNING SUBMISSION

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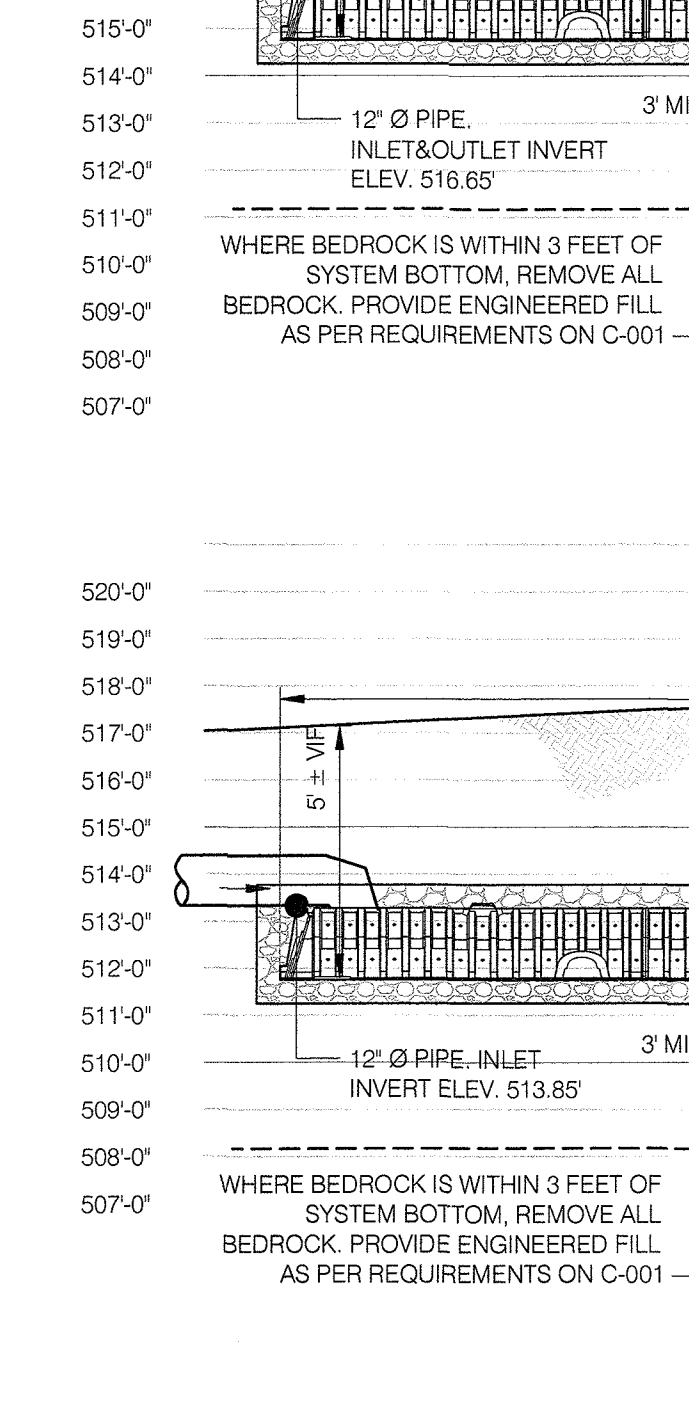
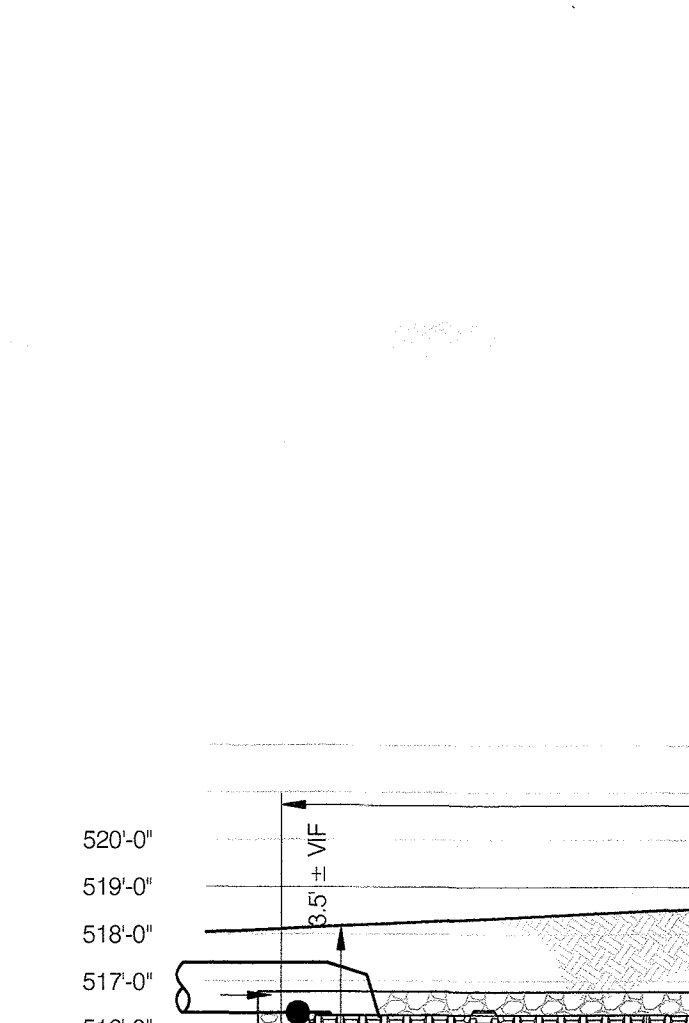
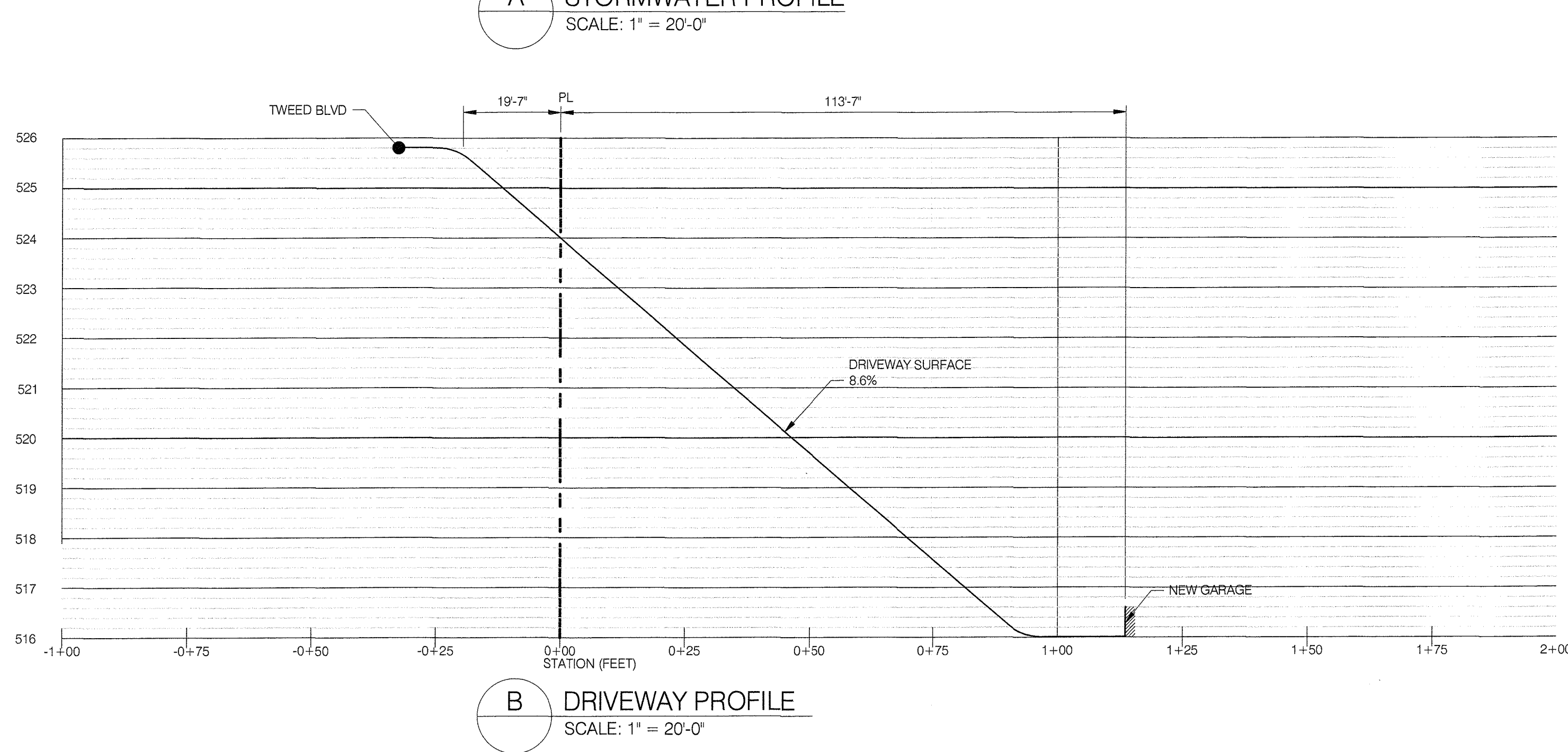
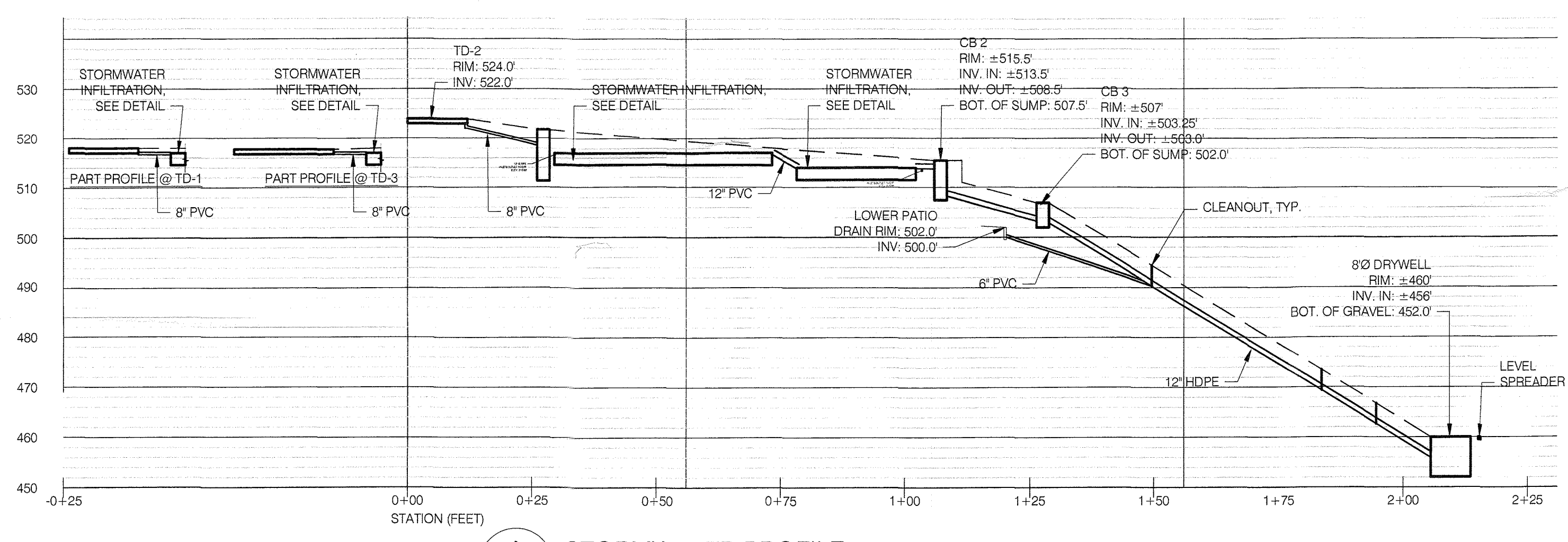
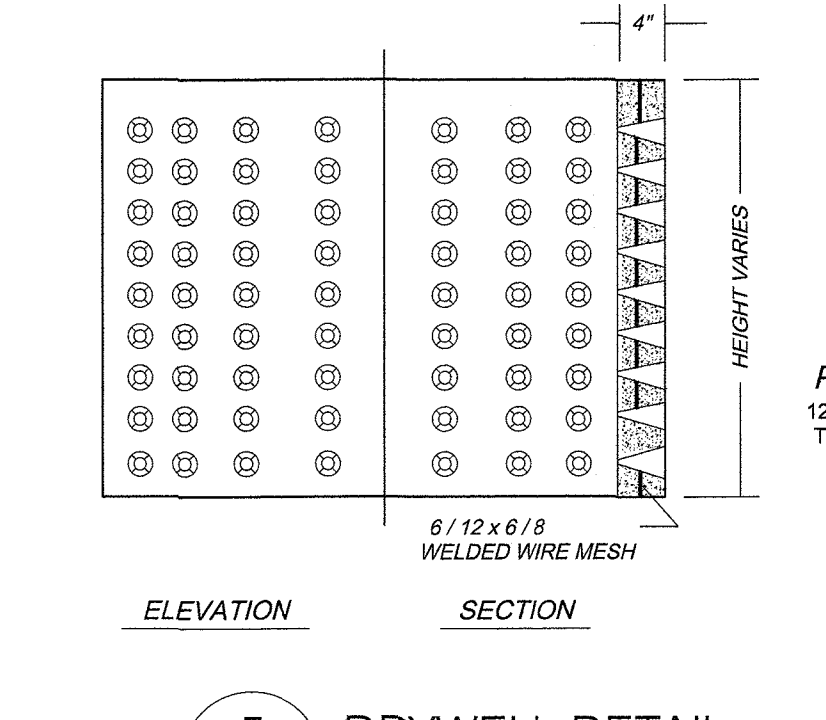
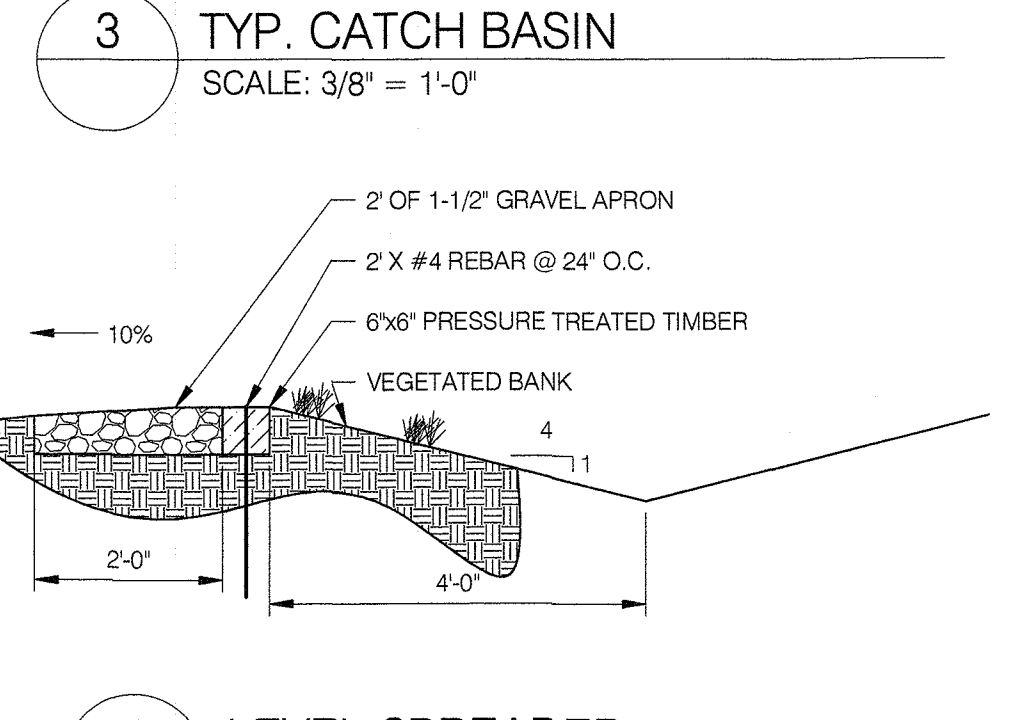
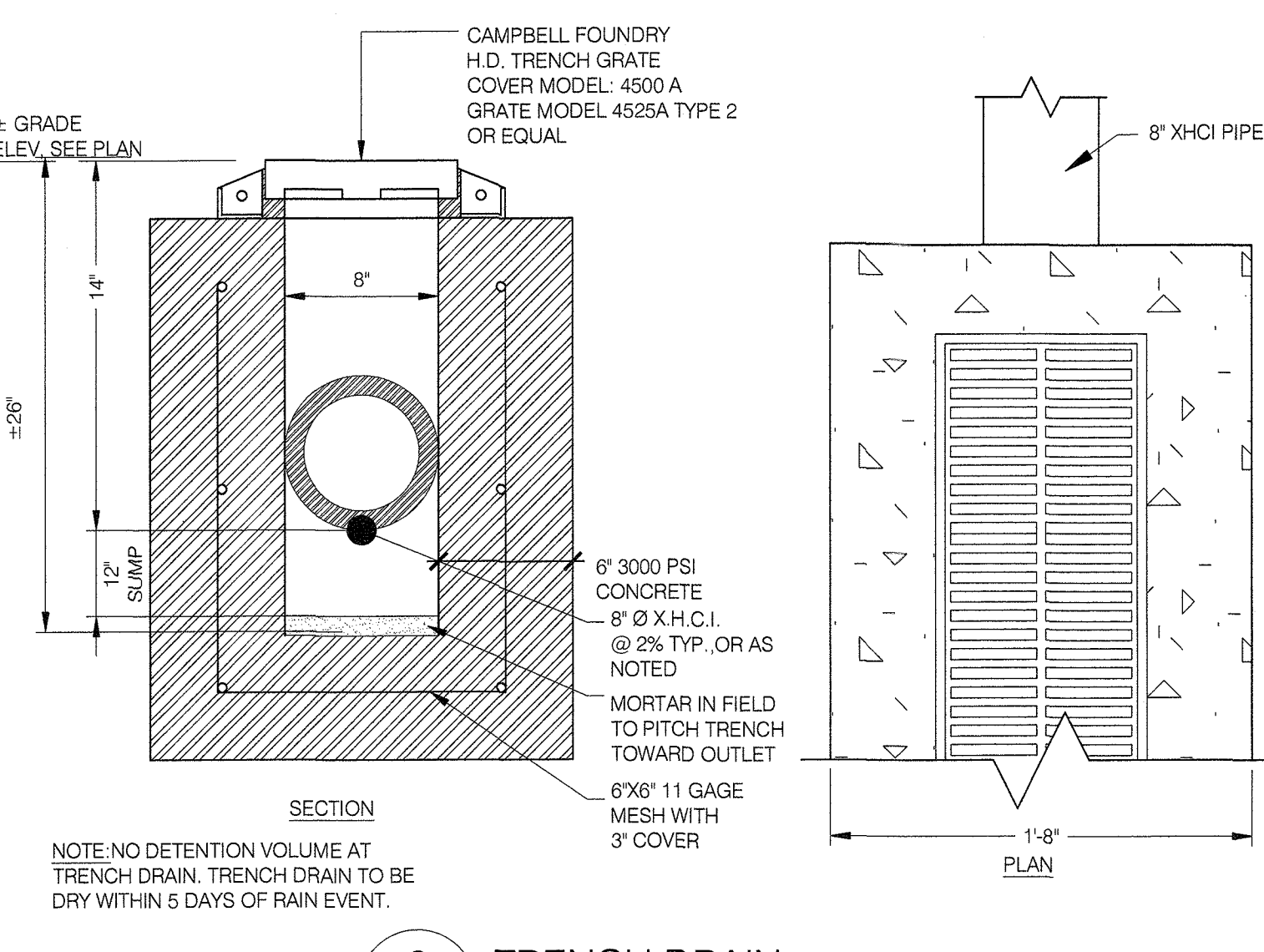
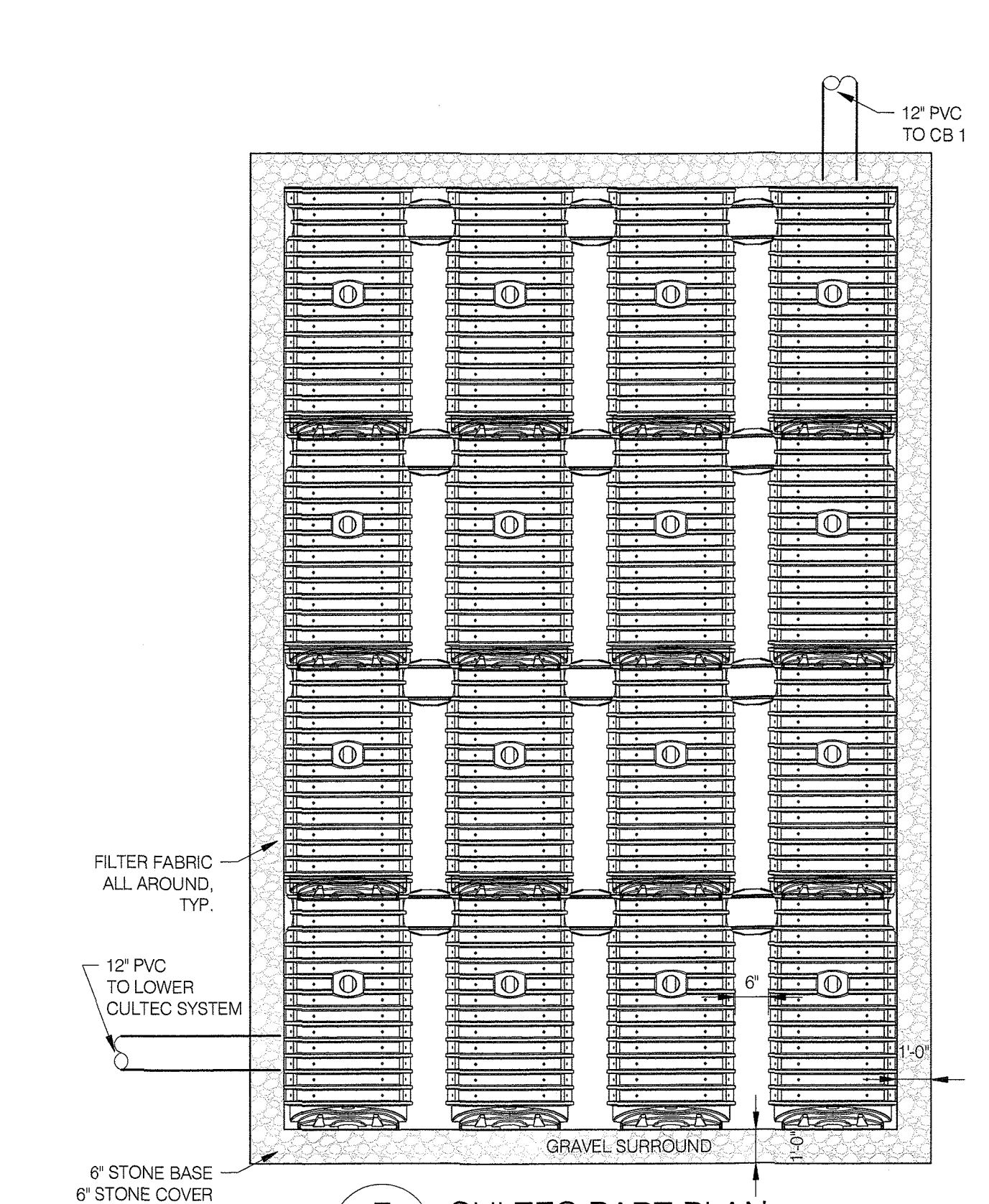
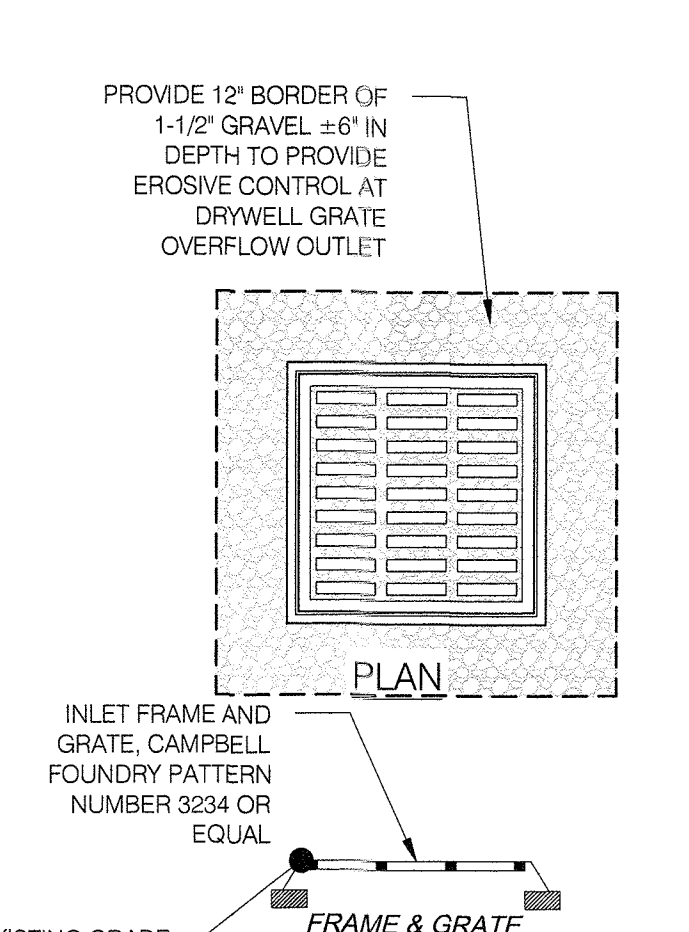
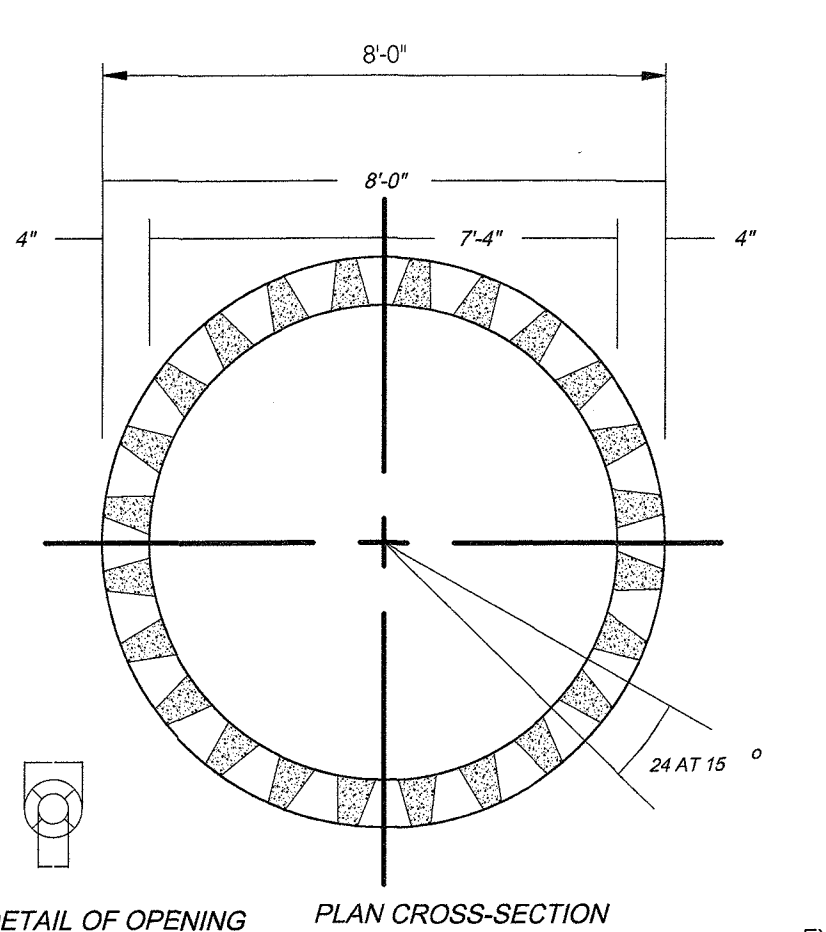
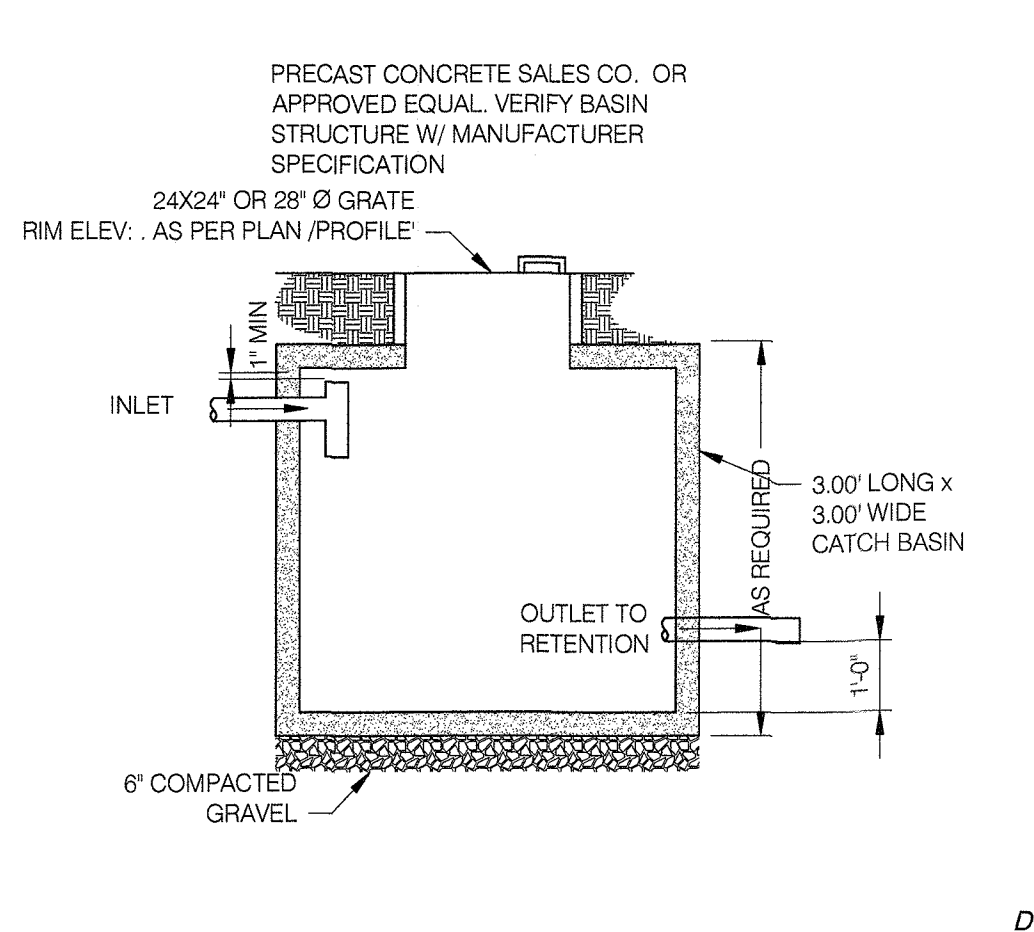
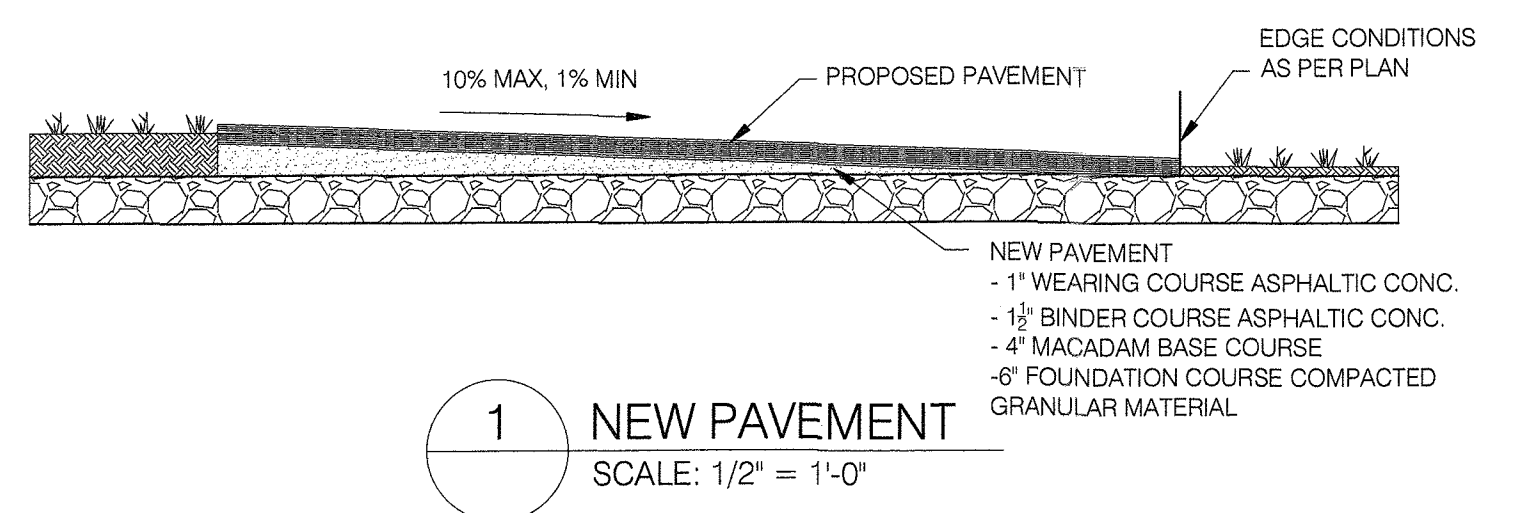
PROJECT:
 11 TWEED BLVD,
 UPPER GRANDVIEW, NY

SEPTIC DETAILS

SEAL & SIGNATURE:

JOREL J. VACCARO, PE
 NY PE 093362

DATE: 02/01/2023
PROJECT #: 20001
DRAWN/CHECKED: JJV
SCALE: NOTED
PAGE: 04 OF 09



REVISIONS:

03/25/20	CLIENT REVIEW
04/8/20	CLIENT REVIEW
04/17/20	SCHEMATIC PLANS & ELEVATIONS
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PROJECT:
**11 TWEED BLVD.
 UPPER GRANDVIEW, NY**

**STORMWATER
 DETAILS**

SEAL & SIGNATURE:

JOREL J. VACCARO
 NY PE 093362

DATE: 02/01/2023
 PROJECT #: 20001
 DRAWN/CHECKED: JUV
 SCALE: NOTED
 PAGE: 05 OF 09

CULTEC RECHARGER® 150XLHD SPECIFICATIONS

GENERAL
 CULTEC RECHARGER® 150XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

- THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4418 OR 1-800-428-5832)
- THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR
- THE CHAMBER SHALL BE ARCHED IN SHAPE.
- THE CHAMBER SHALL BE OPEN-BOTTOMED.
- THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COLLARS OR SEPARATE END WALLS.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 150XLHD SHALL BE 18.6 INCHES (470 mm) TALL, 33 INCHES (838 mm) WIDE AND 11 FEET (3.35 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 150XLHD SHALL BE 10.25 FEET (3.12 m).
- MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 12 INCHES (305 mm) HDPE OR 15" (375 mm) SMOOTH-WALL PVC.
- THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL INSIDE DIMENSIONS OF EACH SIDE PORTAL SHALL BE 8.5 INCHES (216 mm) HIGH BY 12 INCHES (304 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 10.25 INCHES (260 mm).
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 18 INCHES (457 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
- THE NOMINAL STORAGE VOLUME OF THE RECHARGER 150XLHD CHAMBER SHALL BE 2.65 FT³ / FT (0.246 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 150XLHD SHALL BE 27.18 FT³ / UNIT (0.77 m³ / UNIT) - WITHOUT STONE.
- THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
- THE RECHARGER 150XLHD CHAMBER SHALL HAVE THIRTY DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNITS CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
- THE RECHARGER 150XLHD CHAMBER SHALL HAVE 20 CORRUGATIONS.
- THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
- THE RECHARGER 150XLHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE ENDWALLS.
- THE RECHARGER 150XLHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
- THE RECHARGER 150XLHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
- THE RECHARGER 150XLHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN ENDWALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
- THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 150XLHD AND ACT AS CROSS FEED CONNECTIONS.
- CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
- THE CHAMBER SHALL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
- THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- THE CHAMBER SHALL BE DESIGNED AND MANUFACTURED TO MEET THE MATERIAL AND STRUCTURAL REQUIREMENTS OF IAPMO PS 83-2019, INCLUDING RESISTANCE TO ASHFTO H-10 AND H-20 HIGHWAY LIVE LOADS, WHEN INSTALLED IN ACCORDANCE WITH CULTEC'S INSTALLATION INSTRUCTIONS.
- THE CHAMBER SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE SPECIFICATION OF NSAI IRISH AGREEMENT BOARD CERTIFICATE FOR CULTEC ATTENUATION AND INFILTRATION.
- MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.65 m).

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

GEOTEXTILE PARAMETERS

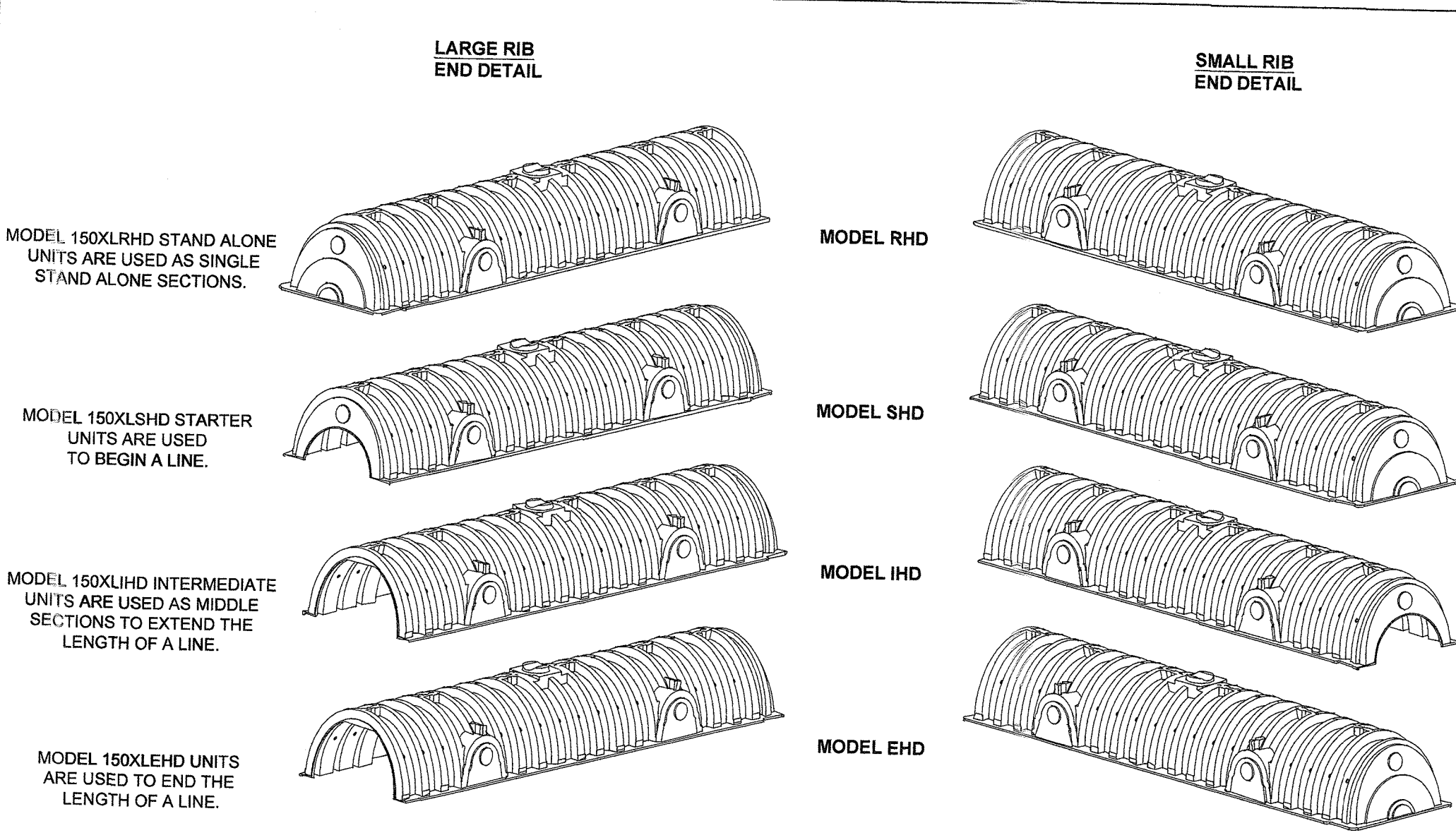
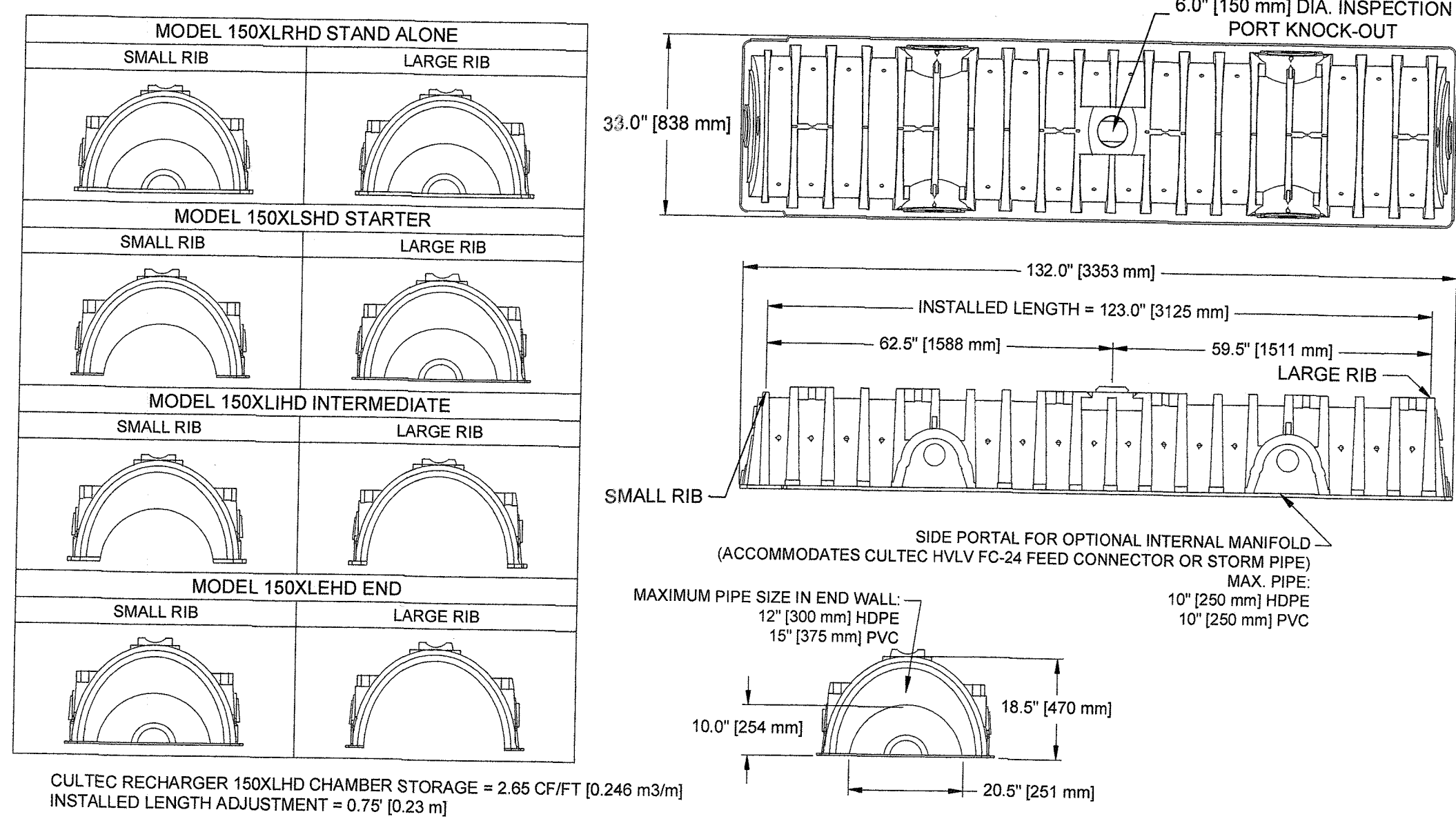
- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4418 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
- THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 130 LBS (533 N) PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A MILLER BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A 40G VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SQ (500 L/MIN/SQ) PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

CULTEC NO. 4800™ WOVEN GEOTEXTILE

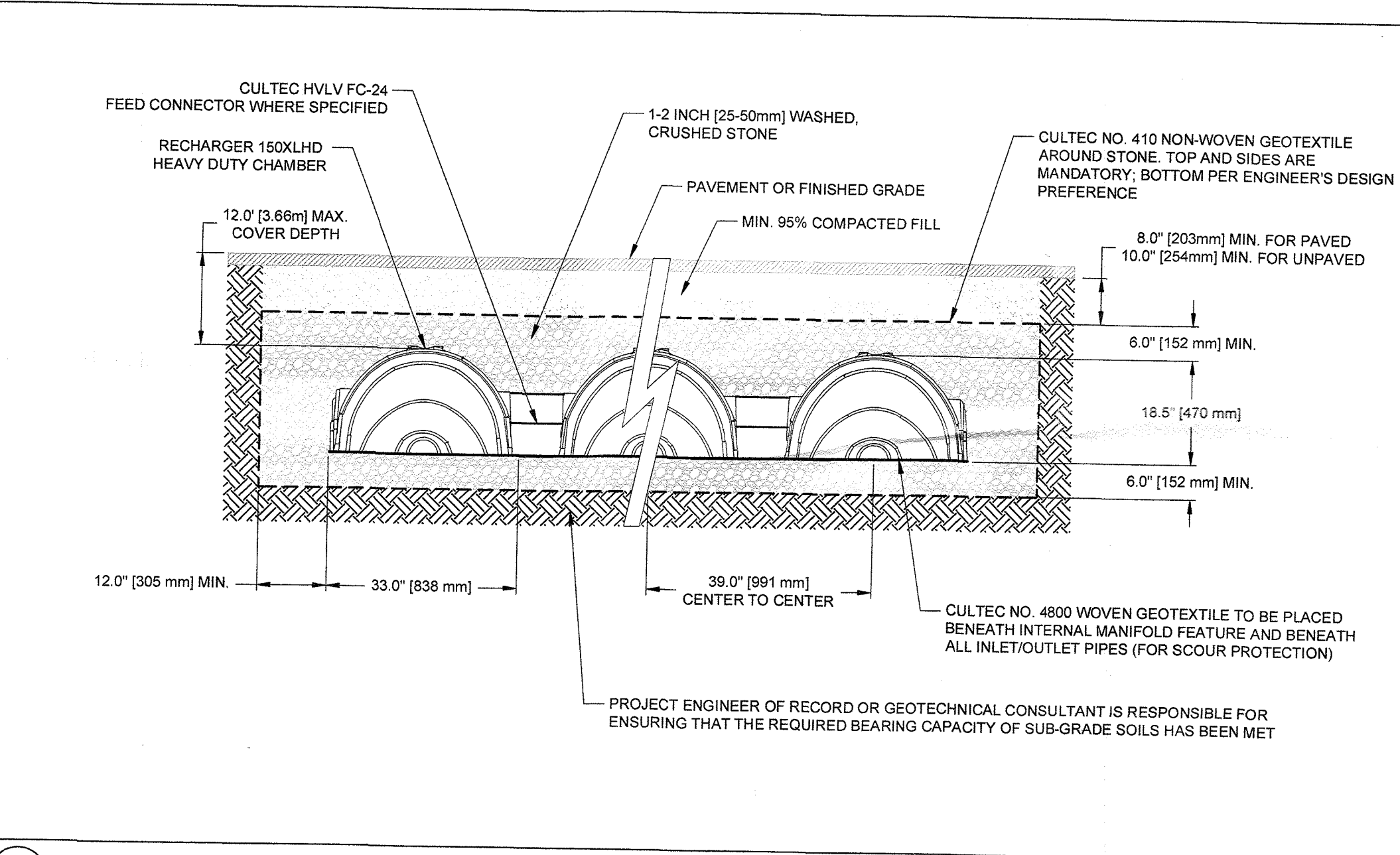
CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS A BARRIER TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

GEOTEXTILE PARAMETERS

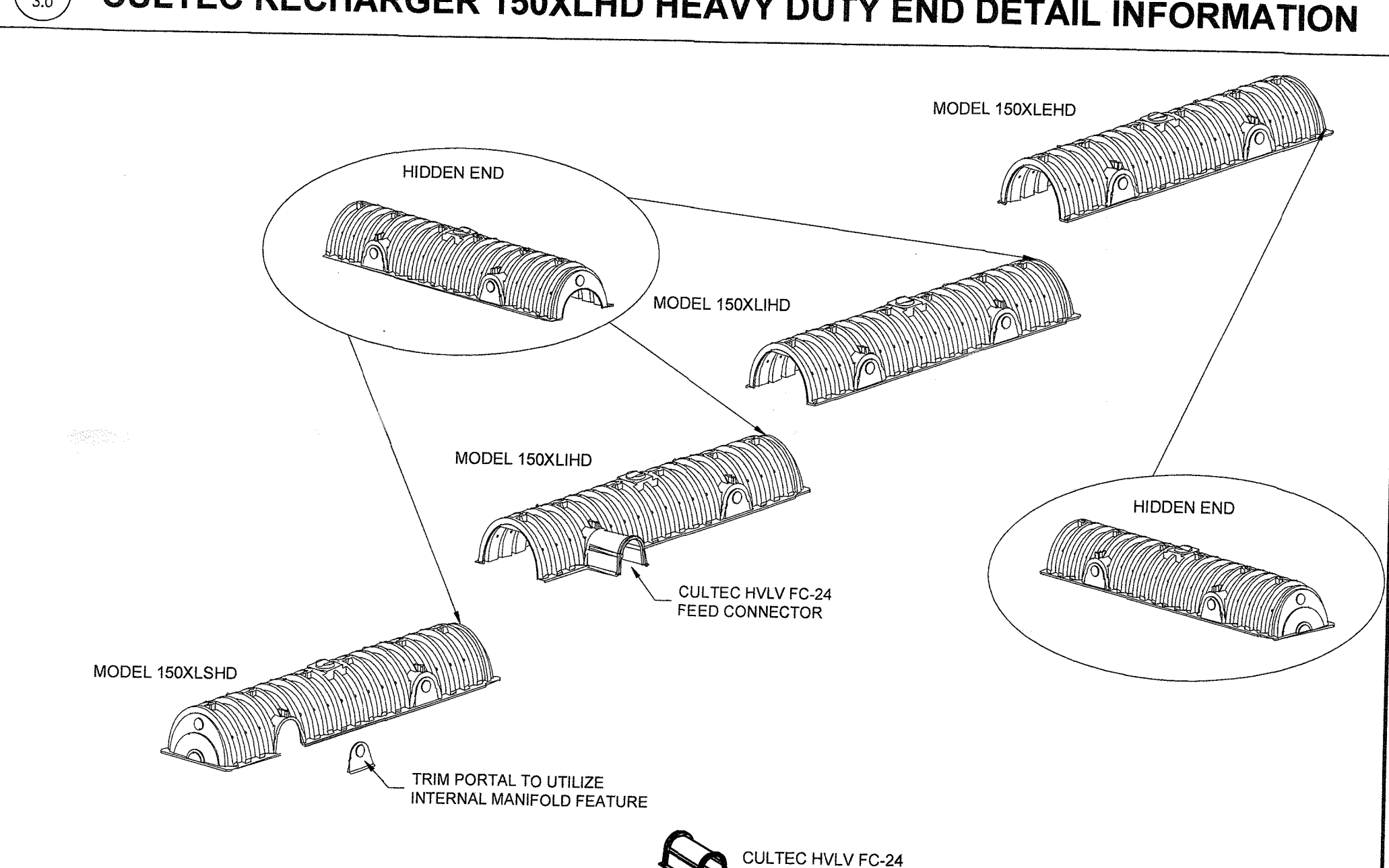
- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4418 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 20 X 20% PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 5,070 LBS/FT (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 X 1,095 LBS/FT (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 2,740 X 2,740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM #751 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING METHOD.



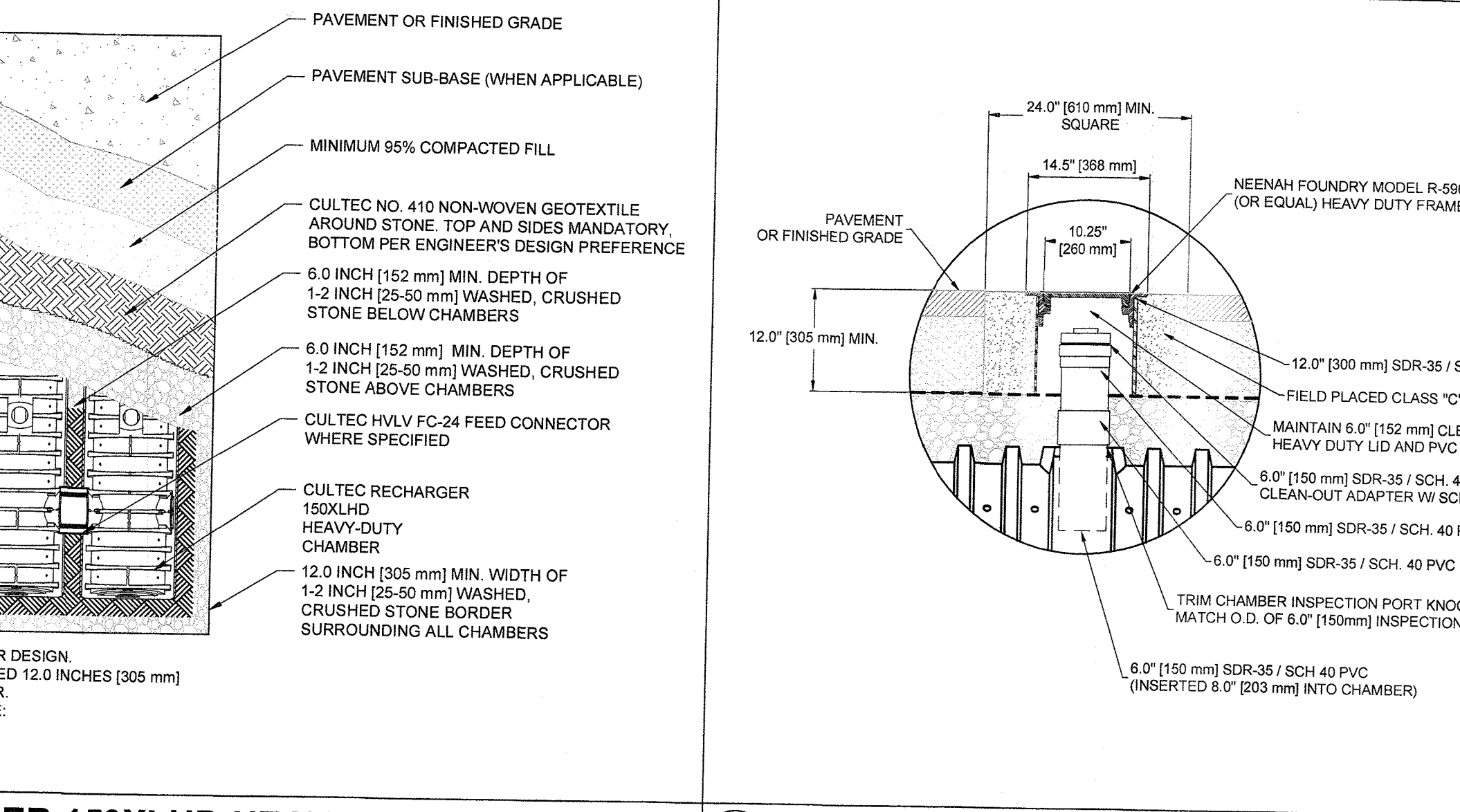
CULTEC RECHARGER 150XLHD HEAVY DUTY THREE VIEW



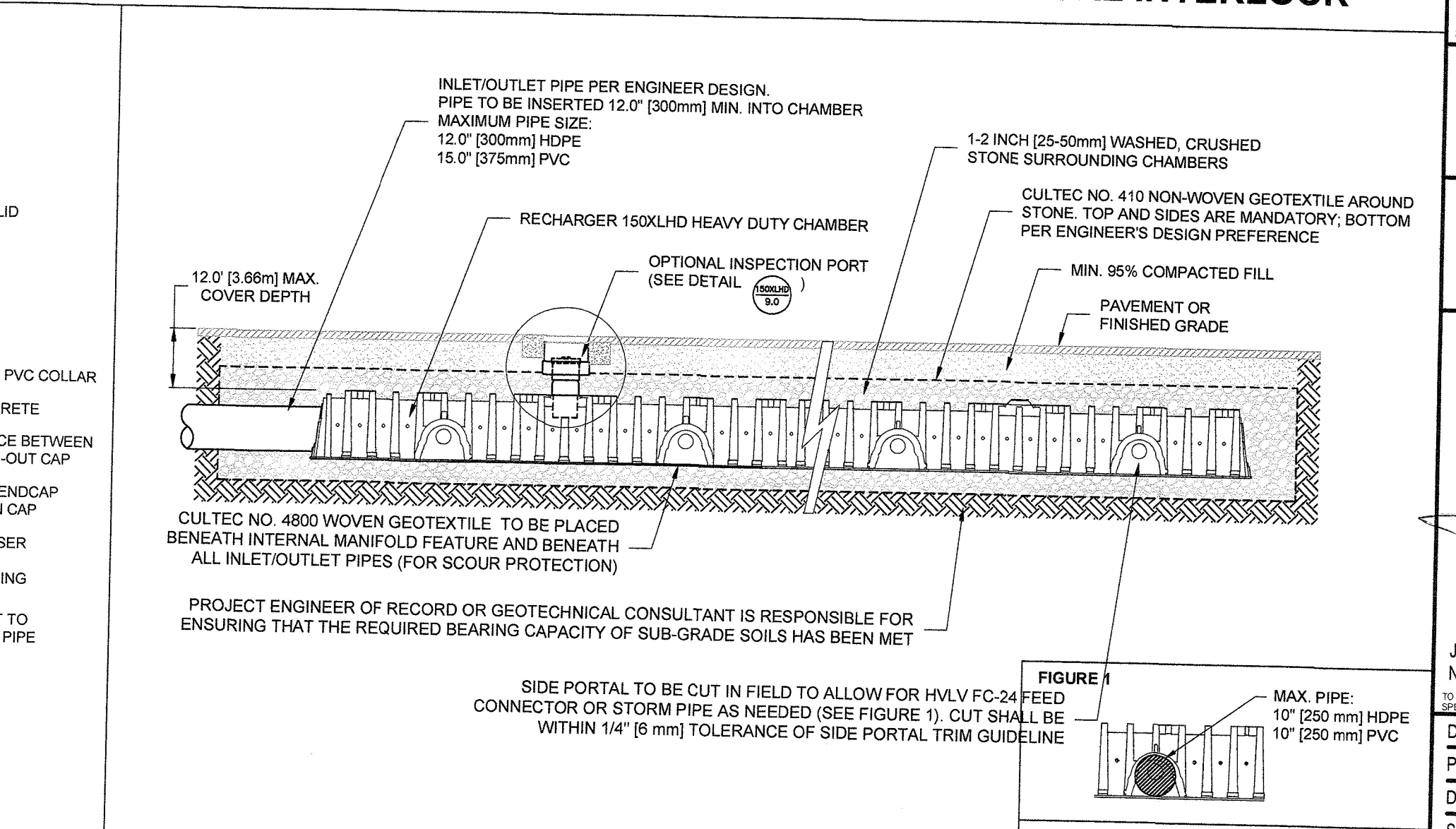
CULTEC RECHARGER 150XLHD HEAVY DUTY END DETAIL INFORMATION



CULTEC RECHARGER 150XLHD HEAVY DUTY PLAN VIEW



CULTEC RECHARGER 150XLHD HEAVY DUTY TYPICAL INTERLOCK



CULTEC HVLV FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL
 CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER 150XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

- THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4418 OR 1-800-428-5832)
- THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
- THE CHAMBER SHALL BE ARCHED IN SHAPE.
- THE CHAMBER SHALL BE OPEN-BOTTOMED.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 18 INCHES (457 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
- THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
- THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
- THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBERS AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
- THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC RECHARGER 150XLHD HEAVY DUTY PLAN VIEW

OPTIONAL INSPECTION PORT - ZOOM DETAIL

CULTEC INTERNAL MANIFOLD - INSPECTION PORT DETAIL

REVISIONS:

03/25/20	CLIENT REVIEW
04/8/20	CLIENT REVIEW
04/17/20	SCHEMATIC PLANS & ELEVATIONS
06/24/20	REV'D SCHEMATIC PLANS & ELEV
08/10/20	INITIAL ZONING REVIEW
09/30/20	REVISED ZONING REVIEW PLANS
04/21/21	REV'D ZONING - POOL LOCATION
05/18/21	REVISED ZONING SUBMISSION
07/28/21	APPROVED BY PLANNING
08/03/21	FOR ZONING BOARD
11/11/21	FOR ZONING BOARD
02/01/2023	REVISED PLANNING SUBMISSION

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW, ARTICLE 140 FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER, TO ALTER THE DRAWING IN ANY MANNER. THE DRAWING, IN WHOLE OR IN PART, IS THE PROPERTY OF KRYPTON ENGINEERING, INC. THE CONTENTS OF THIS DRAWING, IN WHOLE OR IN PART, ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE EXPRESS WRITTEN CONSENT OF KRYPTON ENGINEERING, INC. ORIGINAL SHEET SIZE 24X36

PROJECT:
**11 TWEED BLVD.
 UPPER GRANDVIEW, NY**

STORMWATER DETAILS

SEAL & SIGNATURE:

JOREL V. VACCARO, PE
 NY PE 093362

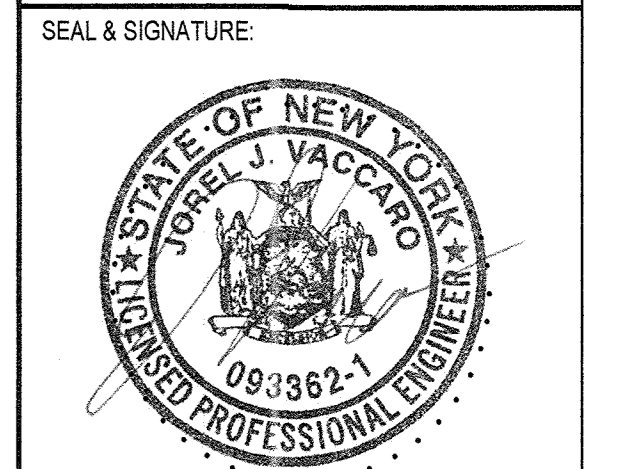
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 PROJECT #: 20001
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 SCALE: NOTED
 PAGE: 06 OF 08

REVISIONS	
03/25/20	CLIENT REVIEW
04/8/20	CLIENT REVIEW
04/17/20	SCHEMATIC PLANS & ELEVATIONS
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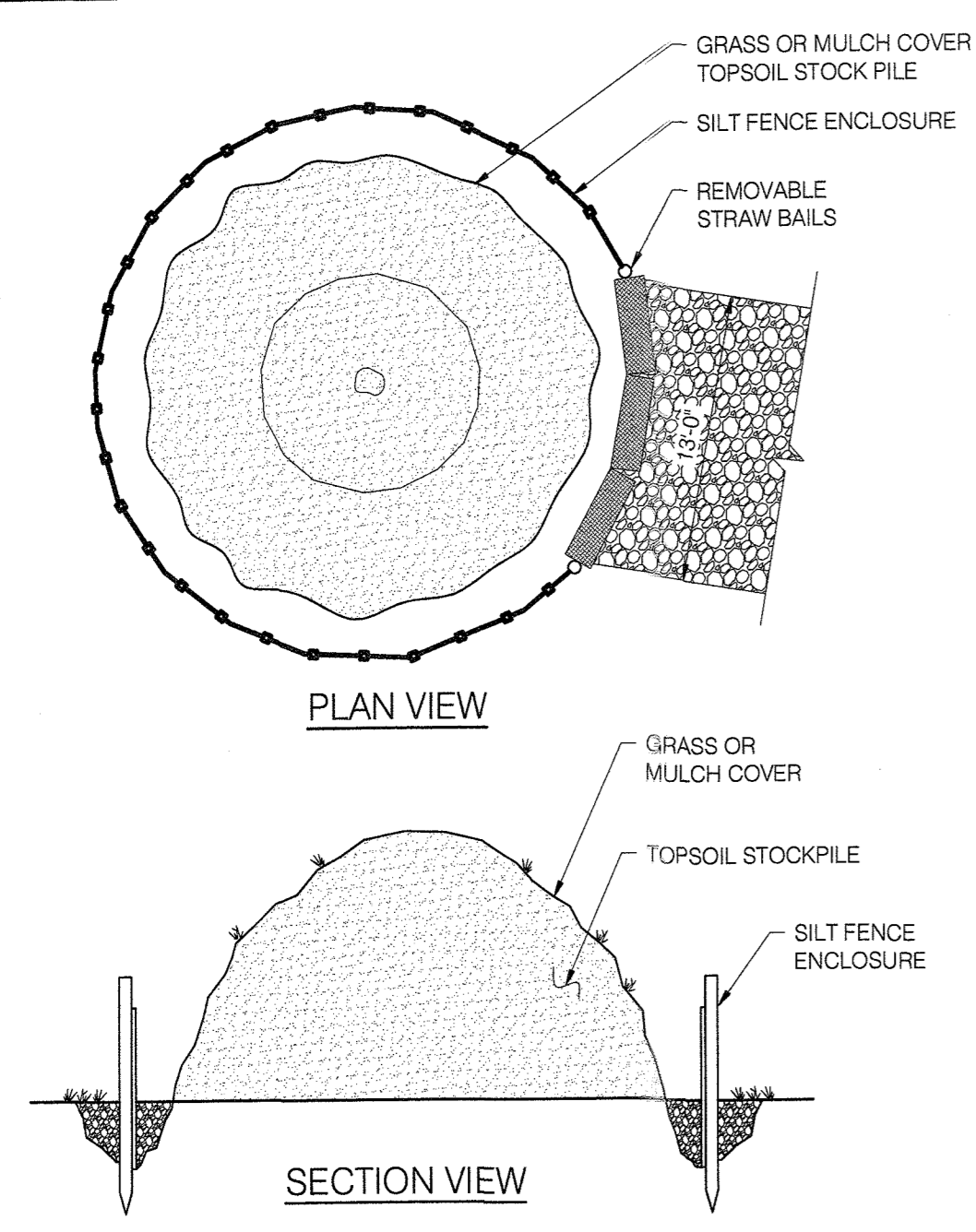
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PROJECT:
**11 TWEED BLVD.
 UPPER GRANDVIEW, NY**

SEDIMENT & EROSION CONTROL DETAILS

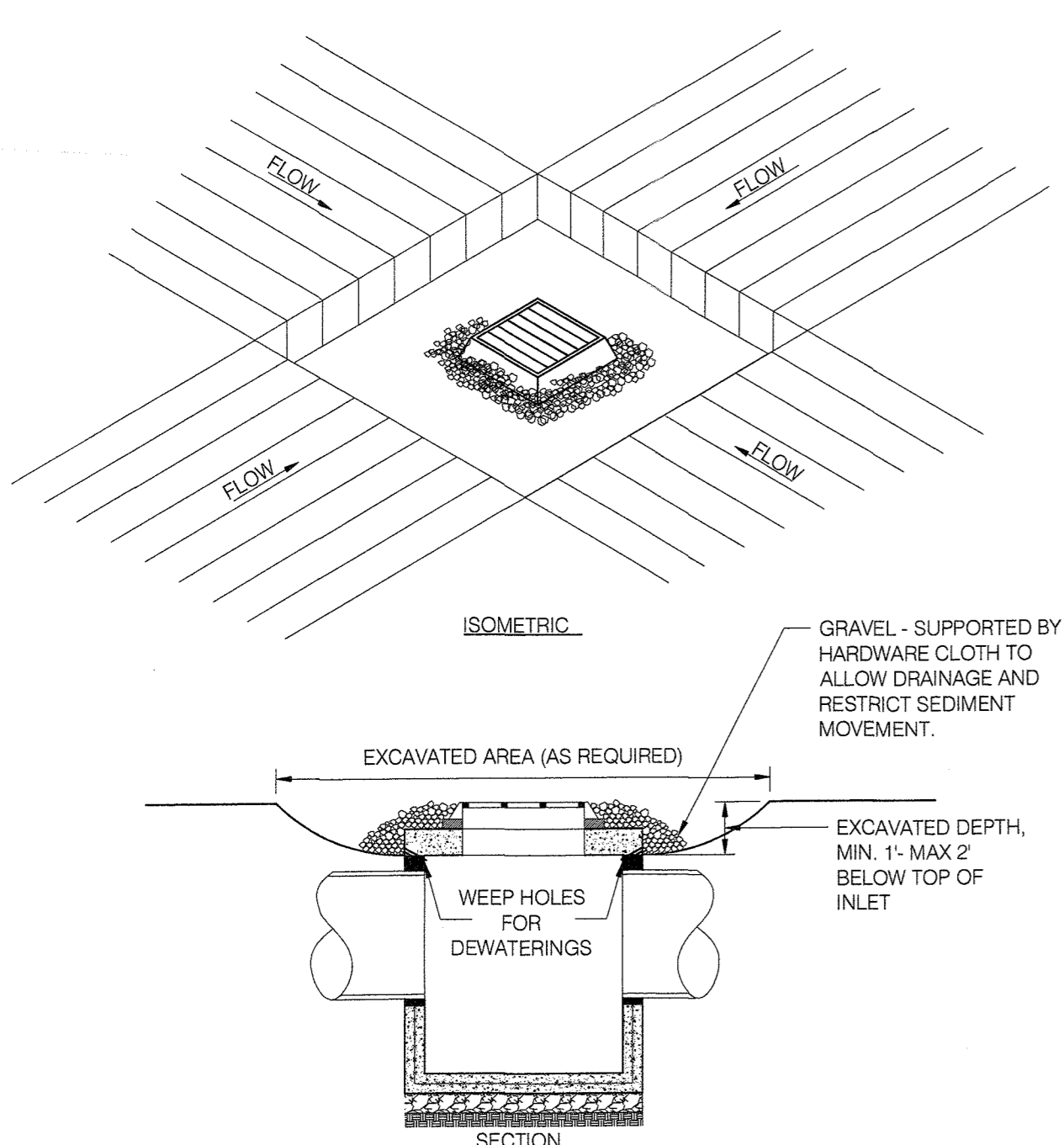


JOREL J. VACCARO, PE
 NY PE 093362
 DATE: 02/01/2023
 PROJECT #: 20001
 DRAWN/CHECKED: JUV
 SCALE: 1" = 10'-0"
 PAGE: 07 OF 09



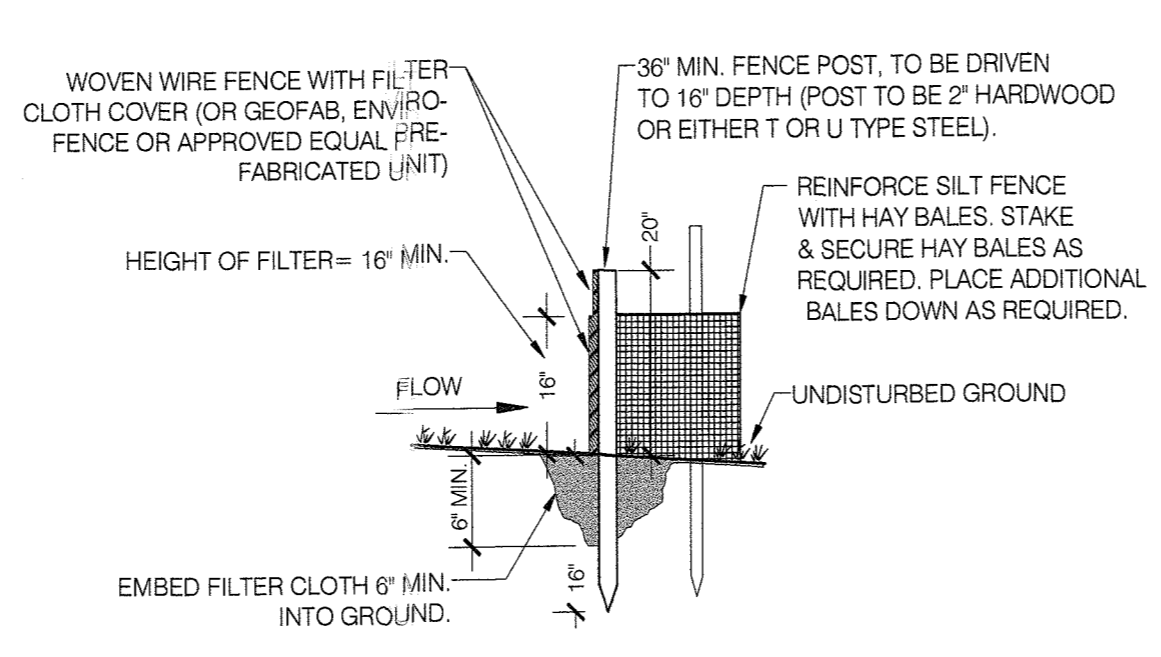
- NOTES:**
- 1-TOPSOIL REMOVED DURING SITE PREPARATION SHALL BE STOCKPILED ON-SITE FOR FUTURE USE IN SITE RECLAMATION AND REVEGETATION.
 - 2- SOIL STOCKPILE SHALL BE ENCIRCLED WITH SILT FENCING WITH PASSAGEWAY PROVIDED FOR EQUIPMENT ACCESS.
 - 3- PROVIDE TEMPORARY GRASS OR MULCH COVER IF STOCKPILE IS TO REMAIN UNDISTURBED FOR THIRTY DAYS OR MORE. TEMPORARY COVER SHALL CONSIST OF ONE OF THE FOLLOWING MEASURES:
 - GRASS SEED: 1/2 LB. RYE GRASS /1000S.F.
 - MULCH: 100.LBS OF STRAW OR HAY/1000S.F.

DETAIL - SOIL STOCKPILE



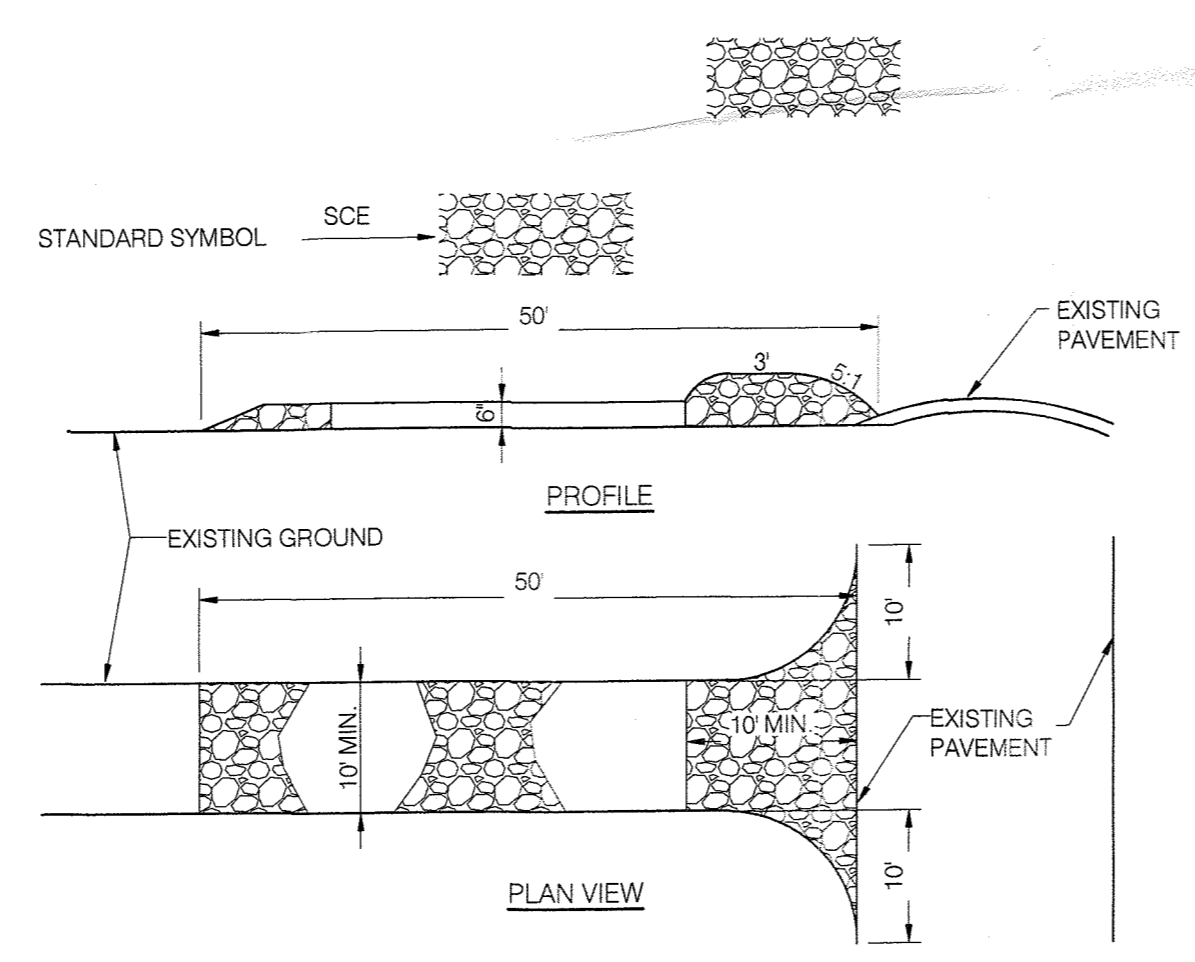
- CONSTRUCTION SPECIFICATIONS**
- 1- CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
 - 2- GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
 - 3- WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
 - 4- UPON STABILIZATION OF CONSTRUCTION DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT SOIL PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

DROP INLET PROTECTION DETAIL



- NOTES:**
- 1- POST SPACING TO BE 10' MAX. O.C.
 - 2- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - 3- WOVEN WIRE FENCE TO BE 14 GA. MIN., 6' MAX. SPACING.
 - 4- FILTER CLOTH TO BE FILTER X, MIRAFI 100XOR APPROVED EQUAL.
 - 5- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - 6- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED OR TIED TO A POST (PROVIDE POST AT SPLICE).
 - 7- MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
 - 8- BALES SHALL BE PLACED AT THE TOE OF SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - 9- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
 - 10- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN 1 1/2" TO 2" INTO THE GROUND AND FLUSH WITH THE BALE.
 - 11- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - 12- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

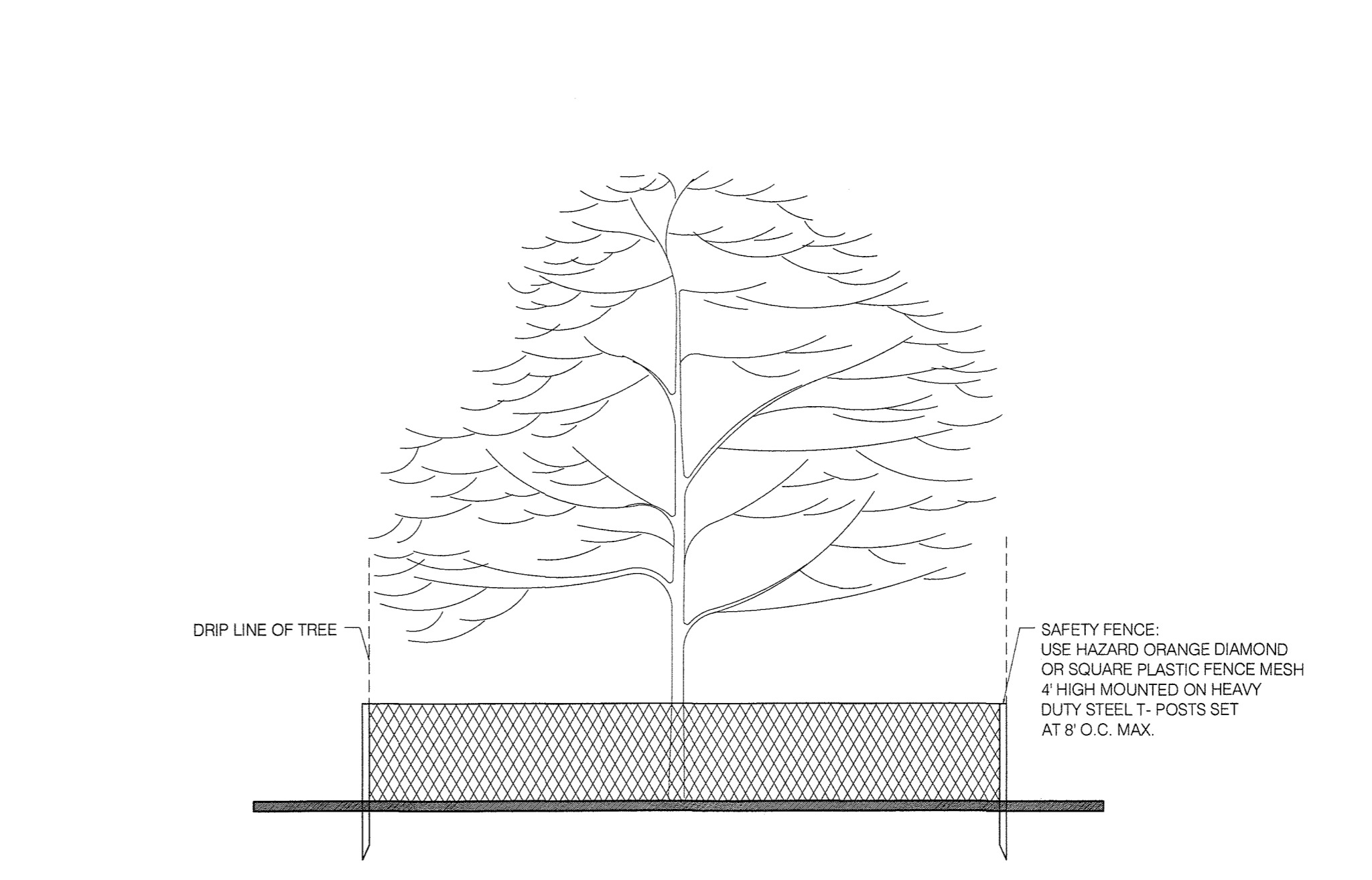
DETAIL - SILT FENCE



- CONSTRUCTION SPECIFICATIONS:**
- 1- STONE SIZE - USE 2" 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 (6) INCHES.
 - 4- WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - 5- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
 - 6- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPE WILL BE PERMITTED.
 - 7- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANING OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
 - 8- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - 9- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

- EROSION CONTROL:**
1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN STATE STANDARDS AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
 2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECTED TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING AND MULCHING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE NY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
 3. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECTED TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO NY STANDARDS.
 4. STABILIZATION SPECIFICATIONS:
 - A. TEMPORARY SEEDING AND MULCHING:
 - LIME - 90 LBS./ 1,000 SF GROUND LIMESTONE; FERTILIZER - 11 LBS./ 1,000 SF, 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4"
 - SEED - PERENNIAL RYE GRASS 40 LBS./ACRE (1 LB./ 1,000 SF) OR OTHER APPROVED SEEDS, PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF TO BE APPLIED ACCORDING TO THE NY STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
 - B. PERMANENT SEEDING AND MULCHING:
 - TOPSOIL - UNIFORM APPLICATION TO A DEPTH OF 5" (UNSETTLED).
 - LIME - 90 LBS./1,000 SF GROUND LIMESTONE; FERTILIZER - 11 LBS./ 1,000 SF, 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4"
 - SEED TURF TYPE TALL FESCUE (BLEND OF 3 CULTIVARS) 150 LBS./ACRE (3.5 LBS./1,000 SF) OR OTHER APPROVED SEED; PLANT BETWEEN MARCH 1 AND OCTOBER 15.
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF TO BE APPLIED ACCORDING TO THE NY STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID BINDER).
 5. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
 6. SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT.
 7. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOOD PLAIN SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A STRAW BALE SEDIMENT BARRIER AND/OR SILT FENCE.
 8. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 1" - 2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' X 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
 9. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 10. DRIVEWAYS MUST BE STABILIZED WITH 1" - 2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
 11. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR INTO PUBLIC RIGHT-OF-WAYS, WILL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
 12. CATCH BASIN INLETS WILL BE PROTECTED WITH AN INLET FILTER DESIGNED IN ACCORDANCE WITH NY STANDARDS.
 13. STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
 14. DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT CONTROL BAG OR OTHER APPROVED FILTER IN ACCORDANCE WITH NY STANDARDS.
 15. DUST SHALL BE CONTROLLED VIA THE APPLICATION OF WATER, CALCIUM CHLORIDE OR OTHER APPROVED METHOD IN ACCORDANCE WITH NY STANDARDS.
 16. TREES TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH A SUITABLE FENCE INSTALLED AT THE DRIP LINE OR BEYOND IN ACCORDANCE WITH NY STANDARDS.
 17. THE PROJECT OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORM WATER OUTFALLS OR OFF-SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
 18. ANY REVISION TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION IN THE FIELD.
 19. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE THROUGHOUT CONSTRUCTION.
 20. SILT FENCING SHALL BE ADJUSTED IN FIELD AND NOT ENCRUACH ONTO EXISTING TREES TO REMAIN AND SHALL ENCOMPASS LIMITS OF DISTURBANCE INCLUDING SEEPAGE PIT LOCATIONS.
 21. THE TREE PROTECTION AND PRESERVATION WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREA WITH MANY TREES. STEPS THAT WILL BE TAKEN TO RESERVE AND PROTECT EXISTING TREES TO REMAIN ARE AS FOLLOWS:
 - A. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.
 - B. THERE WILL BE NO EXCAVATION OR STOCKPIILING OF EARTH UNDERNEATH THE TREES.
 - C. TREES DESIGNATED TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES AT A 5 TO 10 FOOT HEIGHT.
 - D. THE TREE PROTECTION ZONE FOR TREES DESIGNATED TO BE PRESERVED WILL BE ESTABLISHED BY ONE OF THE FOLLOWING METHODS:
 - ONE (1) FOOT RADIUS FROM TRUNK PER INCH DBH.
 - DRIP LINE OF THE TREE CANOPY.



- 1- THE PROJECT DEVELOPER SHALL TAKE REASONABLE PRECAUTION TO SAVE SPECIMEN QUALITY TREES IN AREAS NOTED ON THE PLANS FOR CLEARING. WHEN POSSIBLE, THE DEVELOPER SHALL PROTECT INDIVIDUAL SPECIMEN TREES THROUGH THE INSTALLATION OF SAFETY FENCING AROUND THE DRIP LINE PERIMETER OF THE TREE.
- 2- SAFETY FENCING SHALL BE INSTALLED AT THE ONSET OF SITE CONSTRUCTION TO PREVENT VEHICLE TRAFFIC FROM COMPACTING THE SOILS IN THE VICINITY OF THE TREE ROOT STRUCTURE.