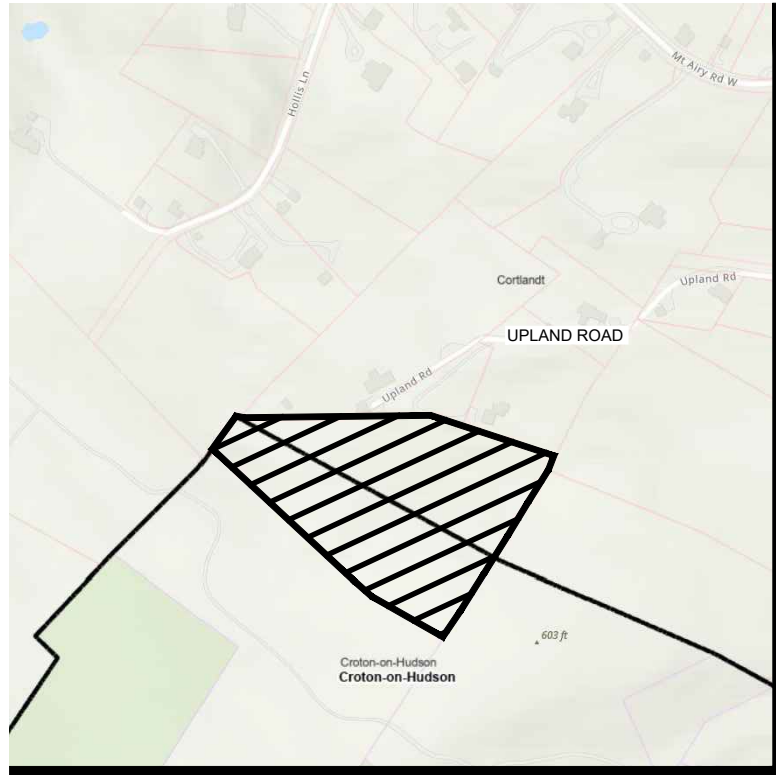
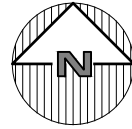




LOCATION MAP
NOT TO SCALE



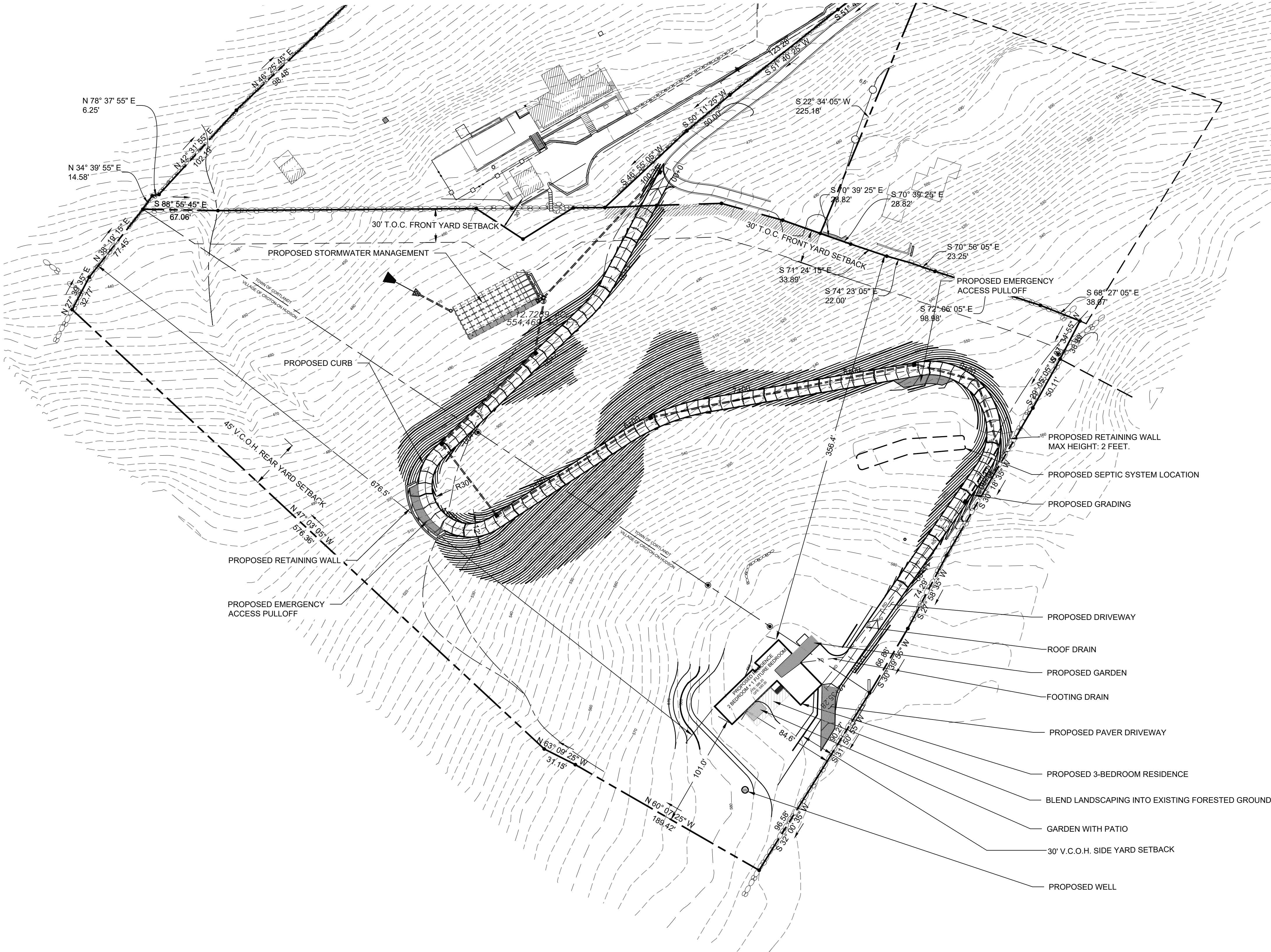
SITE DATA:

OWNER:

THOMAS HANNIGAN JR
52 UPLAND ROAD
CORTLANDT, NY 10520
52 UPLAND ROAD
CORTLANDT, NY, 10520
CORTLANDT: R-10, CROTON-ON-HUDSON: R-60
CORTLANDT: R-10, CROTON-ON-HUDSON: R-60
SECTION 68.08, BLOCK 2, LOT 67.08 & 26
7.06 ACRES (307641 SF)
SUBSURFACE SEWAGE TREATMENT SYSTEM
DRILLED WELL
-

PROJECT LOCATION:

EXISTING TOWN ZONING:
PROPOSED USE:
TOWN TAX MAP DATA:
SITE AREA :
SEWAGE FACILITIES:
WATER FACILITIES:
WATERSHED:



ZONING SCHEDULE OF TOWN OF CORTLANDT:

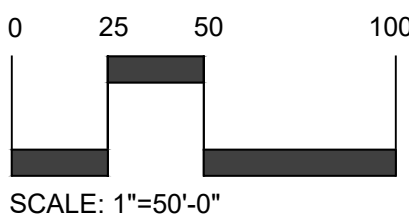
ZONING DISTRICT:	R-10, SINGLE FAMILY RESIDENTIAL		
DIMENSIONAL REGULATIONS:	REQUIRED	PROVIDED	VARIANCE REQUIRED
MINIMUM SIZE OF LOT:			
MINIMUM LOT AREA PER DWELLING:	10,000 SF	306,442 S.F.	NONE
MINIMUM LOT WIDTH:	75 FT.	375 FT.	NONE
MINIMUM LANDSCAPE COVERAGE:	50%	387 FT.	NONE
MINIMUM YARD DIMENSIONS:			
PRINCIPAL BUILDING:			
FRONT YARD SETBACK:	30 FT.	356.4 FT.	NONE
SIDE YARD SETBACK:	N/A	84.6/676.5 FT.	NONE
REAR YARD SETBACK:	20 FT.	101 FT.	NONE
MAXIMUM LOT AREA TO BE OCCUPIED:			
BUILDING COVERAGE:	-(1)	0.8 % OF LOT AREA	NONE
LOT COVERAGE:	-	N/A	NONE
BUILDING SIZE:	-	2,885 SF	NONE
FLOOR AREA RATIO:	N/A	0.01	NONE
MAXIMUM HEIGHT:			
PRINCIPAL BUILDING - FEET:	35 FEET	35 FT MAX	NONE
PRINCIPAL BUILDING - STORIES:	2 1/2	2 STORIES	NONE

ZONING SCHEDULE OF VILLAGE OF CROTON-ON-HUDSON:

ZONING DISTRICT:	R-60, SINGLE FAMILY RESIDENTIAL		
DIMENSIONAL REGULATIONS:	REQUIRED	PROVIDED	VARIANCE REQUIRED
MINIMUM SIZE OF LOT:			
MINIMUM LOT AREA PER DWELLING:	60,000 SF	306,442 S.F.	NONE
MINIMUM LOT WIDTH:	175 FT.	597 FT.	NONE
MINIMUM LOT DEPTH:	225 FT.	387 FT.	NONE
MINIMUM YARD DIMENSIONS:			
PRINCIPAL BUILDING:			
FRONT YARD SETBACK:	50 FT.	356.4 FT.	NONE
ONE SIDE SETBACK/BOTH YARDS:	30/80 FT.	84.6/676.5 FT.	NONE
REAR YARD SETBACK:	45 FT.	101 FT.	NONE
MINIMUM DWELLING REGULATIONS:			
HABITABLE AREA:	35 FEET	35 FT MAX	NONE
FLOOR AREA RATIO (1):	2 1/2	2 1/2 MAX	NONE
REQUIRED OFF STREET PARKING:	2 PER D.U.	2	NONE
MAXIMUM HEIGHT:			
PRINCIPAL BUILDING - FEET:	35 FEET	35 FT MAX	NONE
PRINCIPAL BUILDING - STORIES:	2 1/2	2 STORIES	NONE
MAXIMUM LOT AREA TO BE OCCUPIED:			
BUILDING COVERAGE:	15% OF LOT AREA	0.8 % OF LOT AREA	NONE

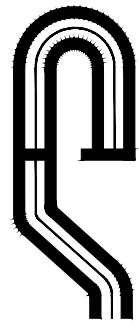
LEGEND

- 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
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- --- PROPOSED LIMIT OF DISTURBANCE
- --- EXISTING TREE TO BE REMOVED



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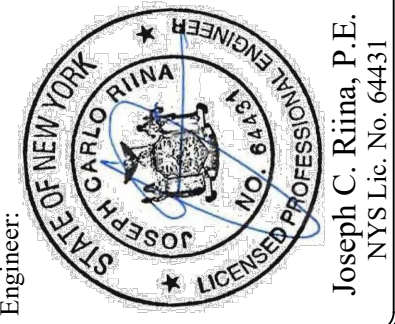
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PROJECT # 21-22

Site Design Consultants

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Revisions:	No.	Date	Comments
	1	8/30/2022	Eng. comments
	2	1/3/2023	WCHD comments
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SCALE: 1" = 30'	DRAWN BY: CS	DATE: 6-28-2021
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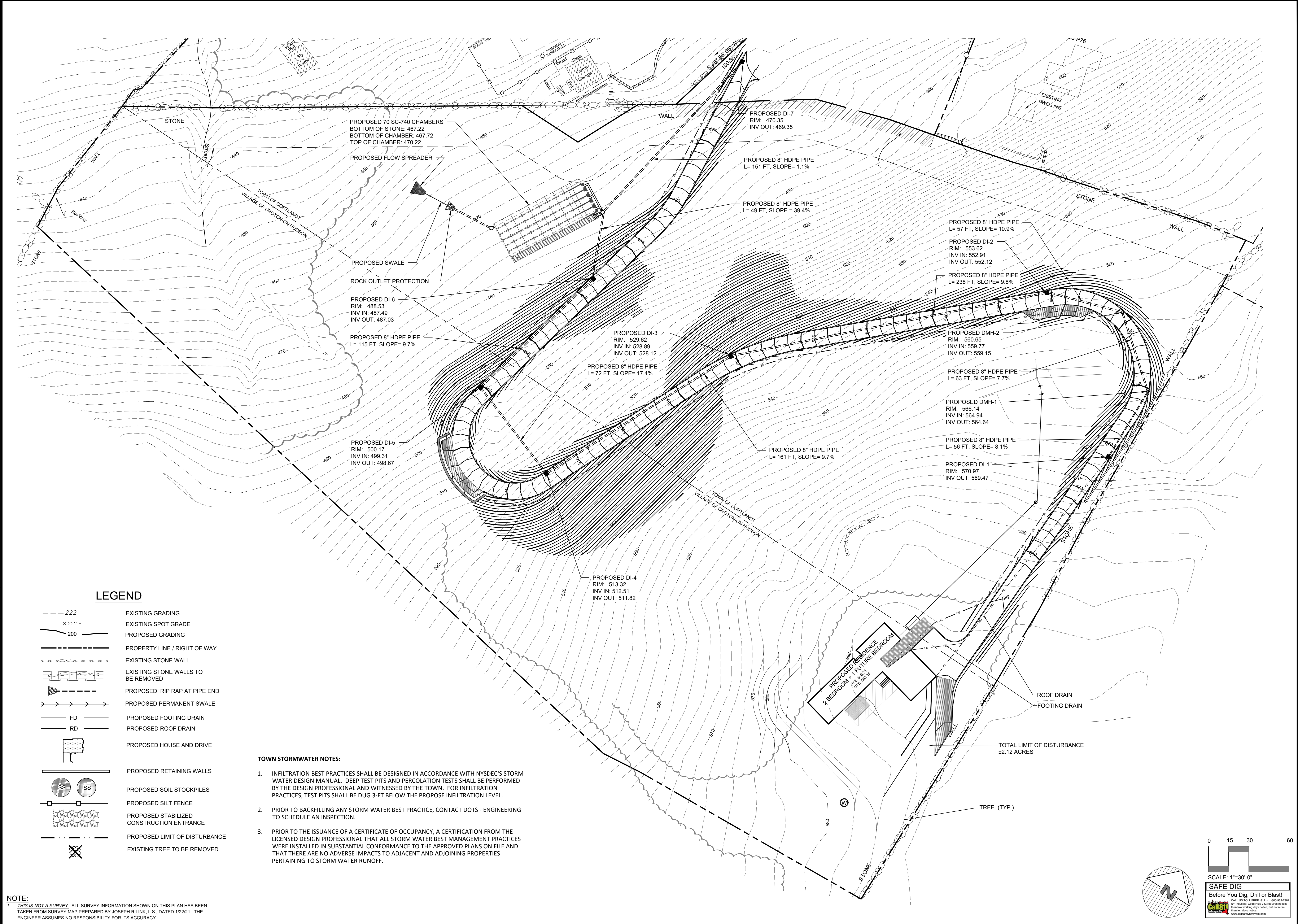
SITE PLAN

SITE PLAN
PREPARED FOR
THOMAS HANNIGAN JR

PROJECT LOCATION
0 ALBANY POST ROAD
Town of Croton-on-Hudson Westchester County, NY

Sheet
1 of 12

E:\2021\12-22 THOMAS W. HANNIGAN\JOB DUBRAY\DWG\21-22 THOMAS W. HANNIGAN\JOB DUBRAY\DWG\21-22 SITE PLAN 1-10-2024.DWG 3:15:50 PM



LEGEND

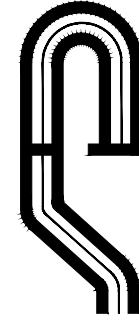
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TOWN STORMWATER NOTES:

- INFILTRATION BEST PRACTICES SHALL BE DESIGNED IN ACCORDANCE WITH NYSDEC'S STORM WATER DESIGN MANUAL. DEEP TEST PITS AND PERCOLATION TESTS SHALL BE PERFORMED BY THE DESIGN PROFESSIONAL AND WITNESSED BY THE TOWN. FOR INFILTRATION PRACTICES, TEST PITS SHALL BE DUG 3-FT BELOW THE PROPOSED INFILTRATION LEVEL.
- PRIOR TO BACKFILLING ANY STORM WATER BEST PRACTICE, CONTACT DOTS - ENGINEERING TO SCHEDULE AN INSPECTION.
- PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, A CERTIFICATION FROM THE LICENSED DESIGN PROFESSIONAL THAT ALL STORM WATER BEST MANAGEMENT PRACTICES WERE INSTALLED IN SUBSTANTIAL CONFORMANCE TO THE APPROVED PLANS ON FILE AND THAT THERE ARE NO ADVERSE IMPACTS TO ADJACENT AND ADJOINING PROPERTIES PERTAINING TO STORM WATER RUNOFF.

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Engineer:
Joseph C. Rinna, P.E.
NYS Lic. No. 64431

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DRAWN BY: CS

DATE: 6-28-2021

DRAINAGE PLAN

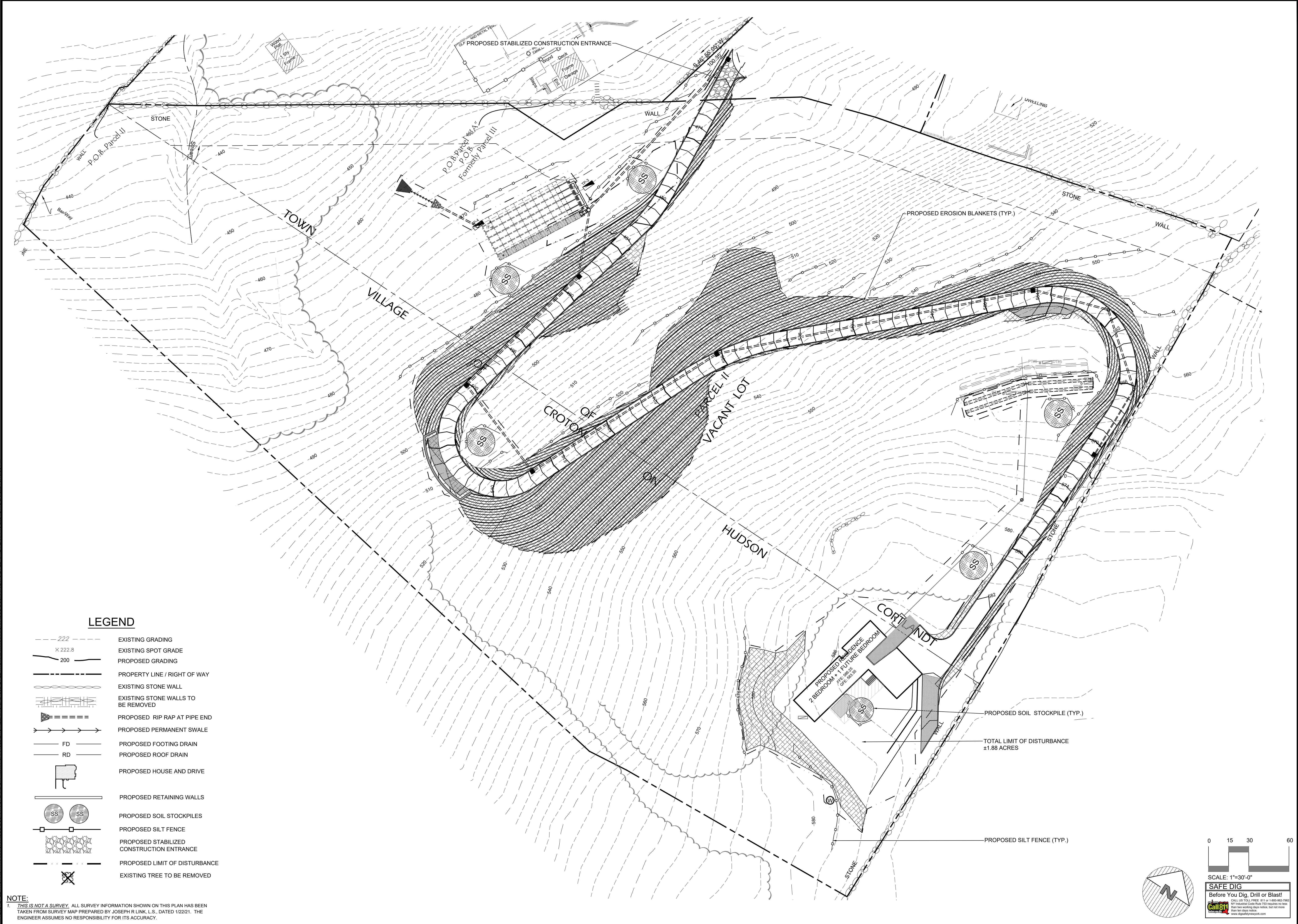
SITE PLAN
PREPARED FOR
THOMAS HANNIGAN JR

PROJECT LOCATION
0 ALBANY POST ROAD
Town of Croton-on-Hudson Westchester County, NY

Sheet 3 of 12

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NY Industrial Code Rule 232 requires no less than ten days notice.
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E:\2021\2-22 THOMAS W. HANNIGAN\BOB DUBRAY\UP AND DE - NUTT CARROLL ENGINEERING\CD\2-22 THOMAS W. HANNIGAN\BOB DUBRAY\DWG\2-22 SITE PLAN 1-10-2024.DWG 3:15:50 PM

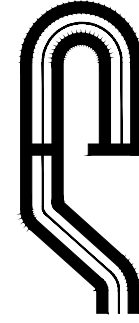


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LEGEND

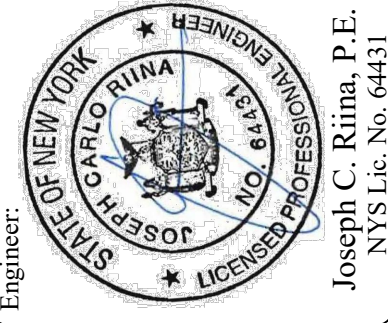
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Engineer:
Joseph C. Rina, P.E.
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SCALE: 1" = 30'

DRAWN BY: CS

DATE: 6-28-2021

EROSION AND SEDIMENT CONTROL PLAN

SITE PLAN PREPARED FOR
THOMAS HANNIGAN JR

PROJECT LOCATION
0 ALBANY POST ROAD
Town of Croton-on-Hudson Westchester County, NY

Sheet 4 of 12

0 15 30 60
SCALE: 1"=30'-0"

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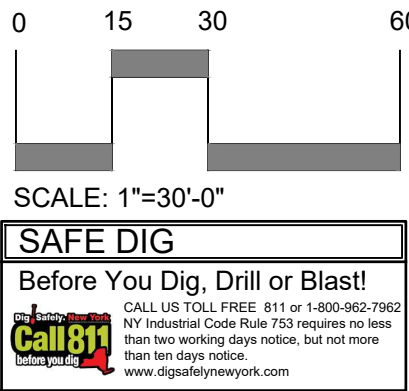
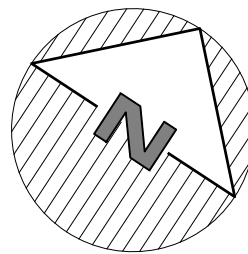
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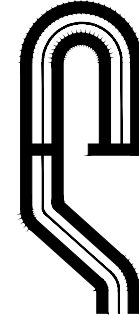


SLOPE DISTURBANCE				
SLOPE		TOWN OF CORTLANDT	VILLAGE OF CROTON ON HUDSON	
	15% - 25%	13,376 SF = 0.31 AC	3,228 SF = 0.07 AC	COMPLIES
	25% - 35%	13,994 SF = 0.32 AC	11,620 SF = 0.27 AC	EXCEEDS BY 2,908 SF
	> 35%	9,910 SF = 0.23 AC	2,786 SF = 0.06 AC	COMPLIES

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PROJECT # 21-22

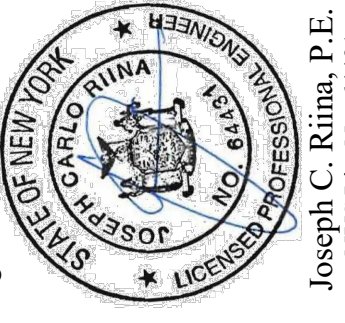
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Engineer:
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SCALE: 1" = 30'

DRAWN BY: CS

DATE: 6-28-2021

SLOPE DISTURBANCE PLAN

SITE PLAN PREPARED FOR

THOMAS HANNIGAN JR

PROJECT LOCATION

0 ALBANY POST ROAD

Town of Croton-on-Hudson

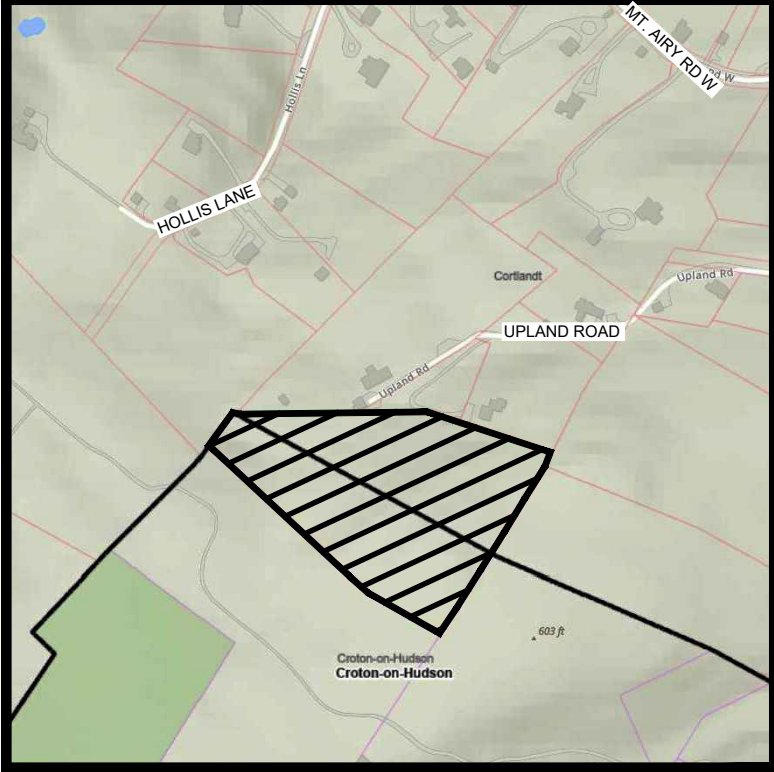
Westchester County, NY

Sheet

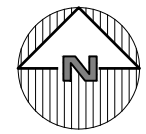
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of

12



LOCATION MAP
NOT TO SCALE



SEPARATION DISTANCES FROM WASTEWATER SOURCES						
WASTEWATER SOURCES	DRILLED WELL OR SECTION LINE (G) (FT)	TO STREAM LAKE WATERCOURSE (B) OR WETLAND (FT)	DWELLING (FT)	PROPERTY LINES (FT)	DRAINAGE DITCH/RAIN GARDEN (H) (FT)	INGROUND POOL (FT)
HOUSE SEWER	25' CIP 50' OTHER	25'	3'	10'	10'	10'
SEPTIC TANK	50'	50'	10' (H)	10'	10'	20'
EFFLUENT LINE / FORCE MAIN	50'	50'	10'	10'	10'	10'
DISTRIBUTION BOX / JUNCTION BOX	100'	100'	20' (D)	10'	20'	20'
ABSORPTION FIELD (F)	100' (A)	100'	20' (D)	10'	20'	35'
SEEPAGE PIT	150' (A)	100'	20' (D)	10'	20'	50'
DRY WELL (D)	50'	25'	20'	10'	10'	20'
ROOF & FOOTINGS ROADS & DRIVEWAY	100'	25'	20'	10'	10'	20'

NOTES:

- A. Wells located in the general path of drainage of a SSTS must be located 200 feet or more away. All public water supply wells must be 200 feet from absorption fields or seepage pits.
B. Mean high water mark of defined stream or lake.
C. Drywells are not allowed above OWTS (drywells, Stormwater infiltrator or other subsurface stormwater infiltrator units).
D. For slab on grade foundations with no drains, distance can be reduced in half.
E. For all systems involving placement of fill, separation distances are measured from the toe of slope of the fill.
F. Closest part of OWTS shall be located at least ten (10) feet from any water service line (i.e. - PWS main, water service connection, well).
G. Recommended.
H. Septic tanks are not permitted beneath raised decks and require a minimum of five (5) feet separation from deck piers (sonotubes).

ADDITIONAL SEPERATION DISTANCES FROM SSTA TO:

- Piped Drainage 25 feet
- Open Channel Drainage 50 feet
- Curtain Drain (upgrade from SSTS) 15 feet
- Curtain Drain (downgrade from SSTS) 50 feet
- Catch Basin 50 feet
- Driveway 5 feet
- Stormwater Basin 100 feet (high water elevation)
- Above Ground Well 10 feet
- Deck with Pilings / sonotube 10 feet
- Slab on Grade Foundation 10 feet
- Roof & Footing Drain Discharge Pipe 10 feet

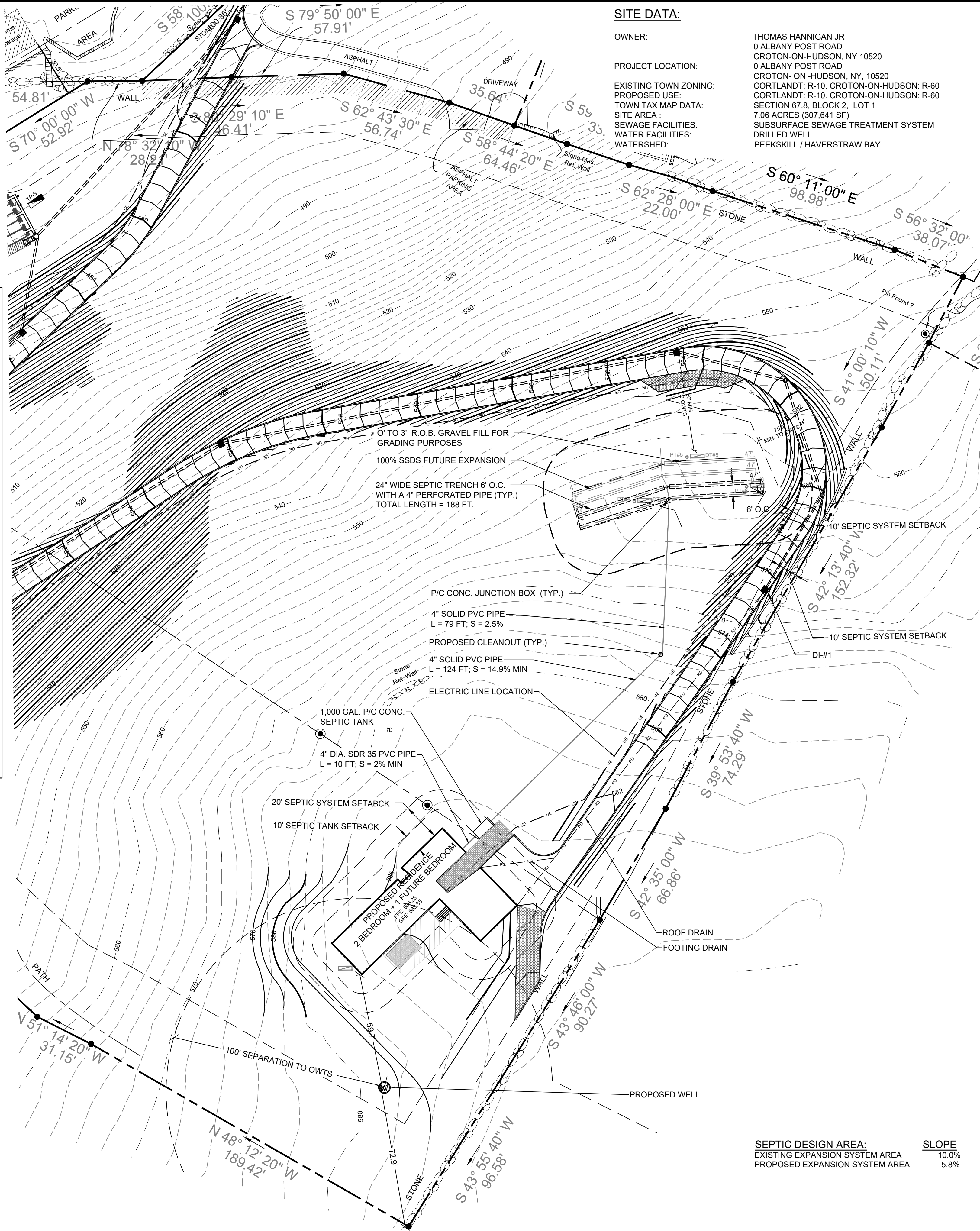


SOILS CLASSIFICATIONS

TYPE	NAME	DESCRIPTION	HYDROLOGICAL GROUP
c1b	CHARLTON	FINE SANDY LOAM	B
c1c	CHARLTON-CHATFIELD	VERY ROCKY	B
c1d	CHATFIELD-CHARLTON	VERY ROCKY	B

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SITE DATA:

OWNER:

THOMAS HANNIGAN JR
0 ALBANY POST ROAD
CROTON-ON-HUDSON, NY 10520
0 ALBANY POST ROAD
CROTON-ON-HUDSON, NY, 10520
CORTLANDT: R-10. CROTON-ON-HUDSON: R-60
CORTLANDT: R-10. CROTON-ON-HUDSON: R-60
SECTION 67.8, BLOCK 2, LOT 1
7.06 ACRES (307,641 SF)
SUBSURFACE SEWAGE TREATMENT SYSTEM
DRILLED WELL
PEEKSKILL / HAVERSTRAW BAY

PROJECT LOCATION:

EXISTING TOWN ZONING:
PROPOSED USE:
TOWN TAX MAP DATA:
SITE AREA:
SEWAGE FACILITIES:
WATER FACILITIES:
WATERSHED:

GENERAL NOTES:

- A written permit and/or approval issued by the WCHD to construct an individual sewerage system shall terminate and therefore be null and void unless construction is undertaken within one (1) year of the date of issuance.
- If for any reason the approved construction plan cannot be followed, a revised plan must be prepared, submitted and approved by the WCHD.
- All construction to be in accordance with these plans and last revised set of WCHD Rules and Regulations.
- All SSTS and wells shall be located in the exact location as shown on this plan unless otherwise authorized by the WCHD.
- Existing wells and SDS shown on this map were installed prior to approval date and are not part of this approval.
- All laundry and kitchen wastes shall be discharged into the SSTS.
- No cellar, roof or footing drains shall be discharged into the SSTS or within 25' of any well.
- Within 24-hours of the completion of the OWTS, the design professional must notify the Westchester County Department of Health (WCHD) that the OWTS is ready for inspection by submitting a completed request for an open works inspection on the appropriate form to WCHD.
- Prior to commencement of operation, a Certificate of Compliance must be applied for and received from WCHD.
- The proposed SSDS shall be isolated and protected against damage by erosion, storage of earth or materials, displacement, compaction or other adverse physical change in the characteristics of the soil or in the drainage of area.
- Proposed septic area to be kept free of traffic and debris during house construction and install adequate drainage to prevent erosion after septic is installed.
- Any modifications or deviations from this plan must be approved by the Design Engineer and WCHD prior to construction.
- The Engineer shall not be held responsible or held accountable for the integrity of any structures constructed or under construction prior to the approval of the plans.
- All conditions, locations, and dimensions shall be field verified and the Engineer shall be immediately notified of any discrepancies.
- All written dimensions on the drawings shall take precedence over any scaled dimensions.
- The Design Engineer shall supervise the construction of the SSTS and make an open works inspection.
- The Design Engineer disclaims any liability for damage or loss incurred during or after construction.
- The proposed OWTS shall be installed by a Westchester County licensed septic contractor. Well shall be installed by a New York State Department of Environmental Conservation Registered well driller.
- The Contractor shall supervise and direct the work using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the work under the contract.
- The Contractor shall be responsible to the owner for the acts and omissions of his employees, subcontractors, and their agents and employees, and any other persons performing any of the work under a contract with the Contractor.
- Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.
- Survey and topographical information shown hereon prepared by surveyor: Joseph R. Link, L.S.

SEPTIC CONSTRUCTION REQUIREMENTS:

General

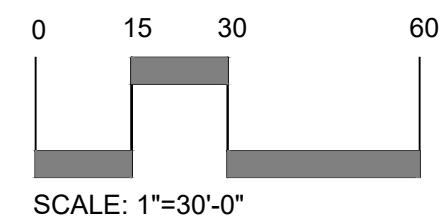
- The installation of the OWTS shall be in accordance with the most recently enacted Rules and Regulations for the Design and Construction of Residential Subsurface Sewage Treatment Systems and Drilled Wells in Westchester County, NY.
- The Westchester County Health Department approval expires one year from the date on the approval stamp and is required to be renewed on or before the expiration date. The approval is revocable for cause or may be amended or modified when considered necessary by the department.
- All work performed including new installations, repairs, relocations, etc. shall have all current required permits or approvals.
- No regrading in SSTS area except as shown on this plan.
- Boulders, if any on surface of ground shall be cleared away prior to construction of the SSTS.
- Prior to any excavation all underground utilities must be located. Call 1-800-962-7962.
- House Connection & Tanks**
 - The house sewer to tank connection shall be a minimum 4" diameter at a minimum slope of 2.0%. The pipe shall be cast iron, ductile iron, or sewer grade PVC. All materials shall comply to the NYS Uniform Fire Prevention and Building Code (9NYCRR). The house trap shall have a cleanout and fresh air intake having a minimum diameter of one-half.
 - If cover exceeds 2 ft over any installed tank or chamber, a manhole and collar to grade is required for access. Minimum requirement of 6"12" of cover over all tanks and chambers.
- Absorption Fields**
 - Absorption Fields to be constructed of 4" perforated PVC pipe or equal, encased in crushed stone over pipe with standard precast junction boxes at influent connection and 4" solid PVC pipe running from septic tank outlet to and between junction boxes.
 - Minimum Trench Depth = 18", Trench Width = 24".
 - Total depth of stone in trench = 12" (washed gravel 3/4" to 1 1/2").
 - Maximum backfill over trench - 14".
 - All septic field laterals shall be of equal length (60' max. w/o dosing and 100' max. if dosed) and parallel to contours at a slope rate of 1/16" per foot.
 - All pipes connecting to tank and boxes shall be cut flush with the inside wall of box.
 - PVC pipe to meet minimum standards of ASTM D-2729.
 - Absorption trenches shall not be installed or backfilled in wet, frozen, frost or snow covered soils.
 - Backfill material for the trenches shall contain no particles with any dimension greater than 4". Backfill septic material must be inspected and approved by the WCHD before installation.
 - No laterals shall be placed beneath a driveway or paved areas.
 - There shall be no trees within 10 feet of the absorption fields.
 - End caps to be placed at end of all 4" perforated P.V.C. pipe in absorption fields.
- Fill Section**
 - R.O.B. gravel and impervious material to be inspected and approved by the Design Engineer prior to installation of the proposed system. Fill shall contain no particles greater than 4" in diameter. Fill shall be placed over expansion area where shown as required by WCHD.
 - Fill stabilization may not be achieved by mechanical compaction. Only by a natural setting, for a period required by W.C.H.D. which may include a freeze-thaw cycle. Percolation tests must be done in stabilized fill and must meet the design rate.
 - Prior to submission of Certificate of Compliance to WCHD, fill section must be stabilized with grass seed and hay cover.

PRIVATE DRILLED WELL CONSTRUCTION REQUIREMENTS:

- All water supply drilled wells may not be constructed without a valid permit issued by the WCHD. Wells shall be constructed in accordance with NYSDOH and WCHD standards.
- Wells must be sited to meet all minimum restrictive distances. Wells must be sited as per plan. Any deviation must be approved by the Engineer and, if required, by the WCHD.
- There are no sources of contamination within 200' of the proposed well (where new wells are proposed).
- The top of the well must be 18" above finished grade which shall slope away in all directions to provide positive drainage.
- Minimum well yield shall be 5 gpm based on a 6 hour pump test and have a minimum 42 gallon pressure tank. Yield tests below 5 gpm will require a special design (see WCHD standards). Well yields below 2 gpm are not acceptable. If a well yield of less than 5 gpm is encountered, contact the WCHD immediately.
- Well locations shown on plan are based on setback requirements and does not guarantee adequate water supply. A hydrogeologist should be consulted for conformation of water supply, if desired.
- Well shall be installed by a New York State Department of Environmental Conservation Registered well driller.
- Drilled well to be sampled and tested in accordance with WCHD Private well testing Law.

MINIMUM RESTRICTIVE DISTANCES TO WELL:

- Property Line 10 feet
- Sewage System Tankage 50 feet
- Foundation 10 feet
- Swimming Pools 10 feet
- Watercourse or Waterbody 50 feet
- Absorption Trench 100 feet; 200 feet general path of drainage
- Seepage Pit 150 feet; 200 feet general path of drainage
- Tri-gallery, 4x4 150 feet; 200 feet general path of drainage
- Flow Diffuser 100 feet; 200 feet general path of drainage



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Before You Dig, Drill or Blast!
Call 811
Call 811 to tell people that you are planning to dig. It's a free service that helps you avoid underground utilities. Call 811 at least 48 hours before you dig. For more information, visit www.call811.org.

HEALTH DEPARTMENT SEPTIC SCHEDULE													
S.S.T.A. AREA (S.F.)	LOT AREA (S.F.)	TEST HOLE NO.	DEEP TEST PIT DESCRIPTION	TOTAL DEPTH	DEPTH TO WATER	DEPTH TO ROCK	PERCENT SLOPE AREA	PERC. TEST NO.	PERC. RATE (MIN/IN)	MIN. DESIGN RATE	APPLICATION RATE (GPD/SF)	NO. OF BEDROOMS	DESIGN FLOW RATE
1,296 S.F.	306,485 S.F.	TP-4	8" T.SOIL, 8"-48" BR. MED. COMP. SANDY LOAM, 48"-84" MD FINE SANDS MIXED W/ GRAVEL OR COBBLES, @84" NO ROCK, NO GW	7'-0"	---	---	---	PT-4	6 - 7 MIN.	8 - 10 MIN.	0.9	2 BRM + 1 FUTURE BRM	330 GPD
		TP-5	8" T.SOIL, 8"-48" BR. MED. COMP. SANDY LOAM, 48"-84" MD FINE SANDS MIXED W/ GRAVEL OR COBBLES, @84" NO ROCK, NO GW	7'-0"	---	---	5.2 %	PT-5	8 - 10 MIN.	8 - 10 MIN.	0.9		1,000 GAL
		TP-6	8" T.SOIL, 8"-48" BR. MED. COMP. SANDY LOAM, 48"-84" MD FINE SANDS MIXED W/ GRAVEL OR COBBLES, @84" NO ROCK, NO GW	7'-0"	---	---	---	PT-6	6 - 7 MIN.	8 - 10 MIN.	0.9		1,000 GAL

Site Design Consultants
Civil Engineers • Land Planners
251-F Underhill Avenue, Yorktown Heights, NY 10598
(914) 962-4488 - Fax: (914) 962-7386
www.sitedesignconsultants.com

Project # 21-22

Engineer:
Joseph C. Rima, P.E.
NYS Lic. No. 64431

Revisions:	No.	Date	Comments
	1	8/30/2022	Eng. comments
	2	10/17/2023	WCHD comments
	3	10/17/2023	Town comments
	5	2/6/2024	Town comments

SCALE: 1" = 30'

DRAWN BY: CS

DATE: 6-28-2021

SITE PLAN PREPARED FOR
THOMAS HANNIGAN JR

PROJECT LOCATION
0 ALBANY POST ROAD
Town of Croton-on-Hudson Westchester County, NY

Sheet 6 of 12

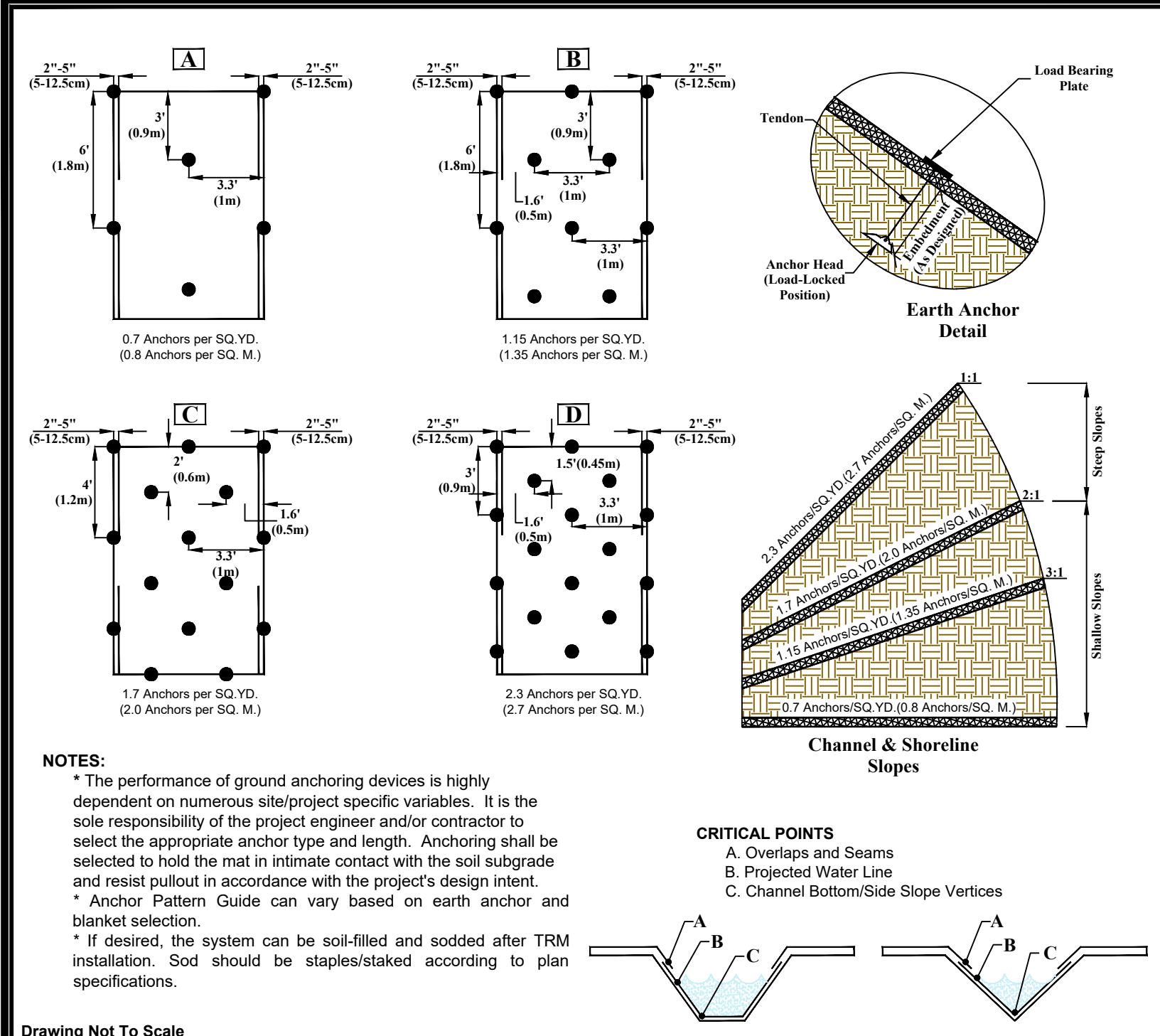
SEPTIC PLAN

1

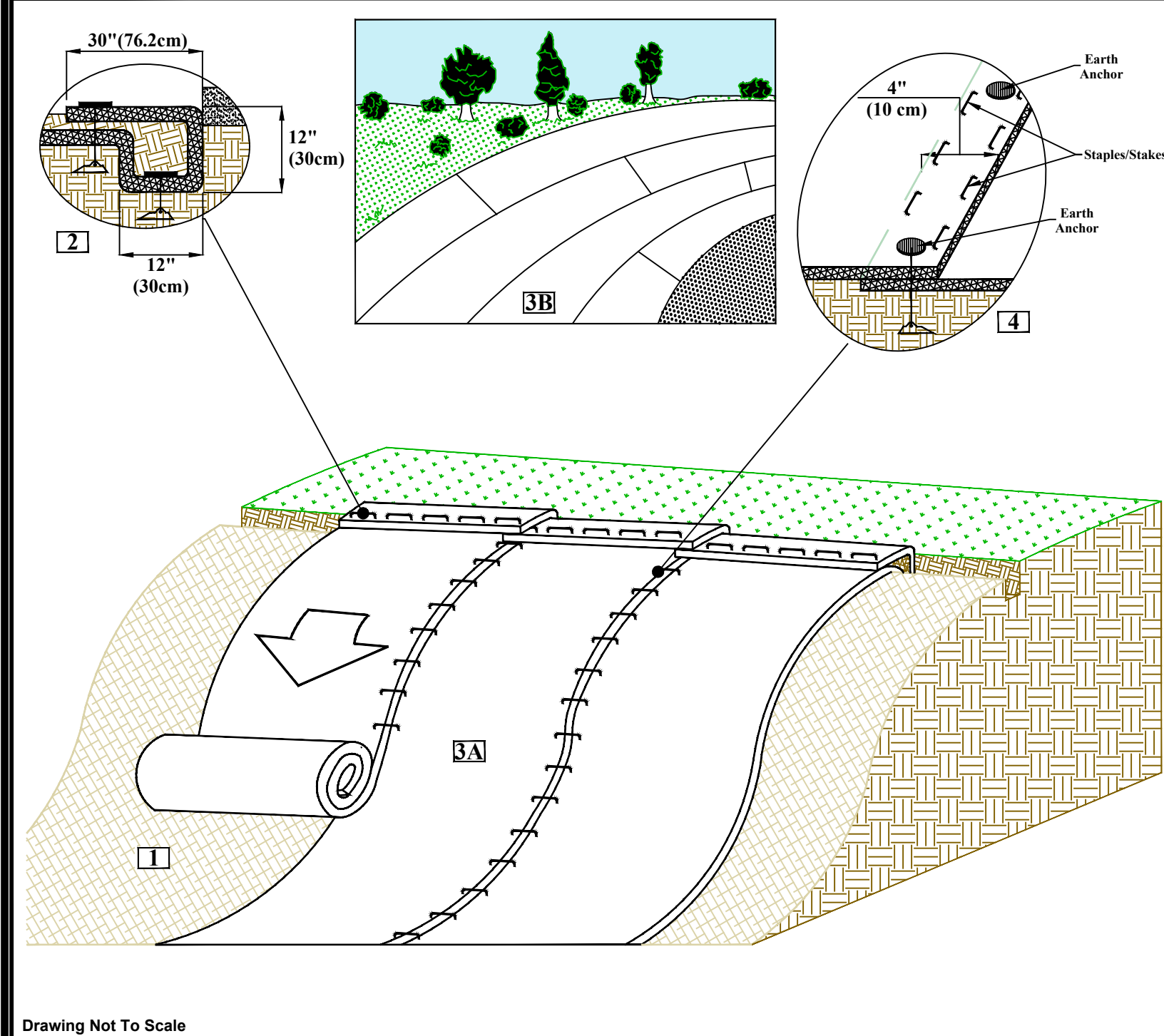
E:\2024\24-22 THOMAS W. HANNIGAN\JOB 13\BUREAU\LEP AND DE - NATT CARROLL ENGINEERING\DWG\24-22 THOMAS W. HANNIGAN\JOB 13\BUREAU\DWG\24-22 SITE PLAN 24-24 WITH TREES.DWG 6/20/2024 3:24:34 PM

#	Common Name	Scientific Name	DBH	Cond.	Within LOD?	Remove?	Notes
786	Black birch	Betula lenta	22	Dead	Yes	Yes	Standing dead tree. Remove based on condition
839	Black birch	Betula lenta	23	Dead	Yes	Yes	Standing dead tree. Remove based on condition
852	Black birch	Betula lenta	13	Dead	No	Yes	Remove based on condition
859	Black birch	Betula lenta	16	Dead	No	Yes	Remove based on condition
881	Black birch	Betula lenta	18	Dead	Yes	Yes	Remove based on condition
891	White ash	Fraxinus americana	23	Dead	Yes	Yes	Remove based on condition
896	Black cherry	Prunus serotina	25	Dead	Yes	Yes	Remove based on condition
902	Black birch	Betula lenta	13	Dead	Yes	Yes	Remove based on condition
923	Black cherry	Prunus serotina	6	Dead	No	Yes	Remove based on condition
935	Black birch	Betula lenta	15	Dead	Yes	Yes	Remove based on condition
937	Black birch	Betula lenta	17	Dead	Yes	Yes	Remove based on condition
940	Black birch	Betula lenta	14	Dead	No	Yes	Remove based on condition
965	Black birch	Betula lenta	12	Dead	Yes	Yes	Remove based on condition
971	Black birch	Betula lenta	10	Dead	Yes	Yes	Remove based on condition
981	Ash	Fraxinus	5	Dead	No	Yes	Standing dead tree. Remove based on condition
3088	Red maple	Acer rubrum	6	Dead	Yes	Yes	Remove based on condition
3109	Black birch	Betula lenta	11	Dead	No	Yes	Dead tree leaning over proposed drive. Remove based on condition
3116	Black birch	Betula lenta	15	Dead	Yes	Yes	Remove based on condition
3127	Black birch	Betula lenta	14	Dead	No	Yes	Remove based on condition
3139	Black birch	Betula lenta	13	Dead	Yes	Yes	Remove based on condition
3163	Black birch	Betula lenta	13	Dead	No	Yes	Remove based on condition
3215	Black birch	Betula lenta	21	Dead	No	Yes	Standing dead tree leans toward proposed drive. Remove based on condition
3229	Black birch	Betula lenta	18	Dead	Yes	Yes	Remove based on condition
3236	Black birch	Betula lenta	19	Dead	Yes	Yes	Remove based on condition
3247	Black birch	Betula lenta	14	Dead	Yes	Yes	Remove based on condition
3269	Black birch	Betula lenta	23	Dead	No	Yes	Remove based on condition
3271	Black birch	Betula lenta	16	Dead	Yes	Yes	Remove based on condition
751	Black birch	Betula lenta	15	Fair	Yes	Yes	None
752	Black birch	Betula lenta	13	Fair	Yes	Yes	None
753	Black birch	Betula lenta	14	Fair	Yes	Yes	None
754	Black birch	Betula lenta	19	Fair	Yes	Yes	None
755	Black birch	Betula lenta	15	Fair	No	Yes	None
756	Black birch	Betula lenta	15	Fair	No	Yes	None
757	Black birch	Betula lenta	11	Fair	Yes	Yes	None
758	Sugar maple	Acer saccharum	11	Fair	Yes	Yes	None
759	Black birch	Betula lenta	21	Fair	Yes	Yes	None
760	Norway maple	Acer platanoides	14	Fair	Yes	Yes	Invasive species
761	Sugar maple	Acer saccharum	9	Fair	Yes	Yes	None
763	Black birch	Betula lenta	16	Fair	No	Yes	Basal decay
765	Black birch	Betula lenta	18	Fair	Yes	Yes	Basal decay
766	Black birch	Betula lenta	21	Fair	Yes	Yes	None
767	Japanese falsecypress	Chamaecyparis pifera	11	Fair	No	Yes	None
768	Black birch	Betula lenta	23	Fair	No	Yes	None
769	Japanese falsecypress	Chamaecyparis pifera	8	Fair	No	Yes	None
771	Japanese falsecypress	Chamaecyparis pifera	6	Fair	Yes	Yes	None
772	Black birch	Betula lenta	20	Fair	Yes	Yes	None
773	Black cherry	Prunus serotina	7	Fair	Yes	Yes	None
774	Black birch	Betula lenta	17	Fair	Yes	Yes	None
775	Norway maple	Acer platanoides	15	Fair	Yes	Yes	None
776	Black birch	Betula lenta	21	Fair	Yes	Yes	Column of decay along trunk
777	Flowering dogwood	Cornus florida	5	Fair	Yes	Yes	None
779	Black birch	Betula lenta	14	Fair	Yes	Yes	None
780	Black birch	Betula lenta	19	Fair	Yes	Yes	None
781	Black birch	Betula lenta	21	Fair	Yes	Yes	None
782	Black birch	Betula lenta	22	Fair	Yes	Yes	Codominant near base
784	Black birch	Betula lenta	14	Fair	Yes	Yes	None
784	Black birch	Betula lenta	15	Fair	Yes	Yes	None
785	Black birch	Betula lenta	13	Fair	No	No	None
786	Black birch	Betula lenta	15	Fair	No	No	None
787	Black birch	Betula lenta	20	Fair	No	No	None
788	Black birch	Betula lenta	15	Fair	No	No	None
789	Black birch	Betula lenta	15	Fair	No	No	None
790	Black birch	Betula lenta	19	Fair	No	No	None
791	Black birch	Betula lenta	18	Fair	No	No	None
792	Black birch	Betula lenta	23	Fair	No	No	None
793	Black birch	Betula lenta	13	Fair	No	No	None
794	Black birch	Betula lenta	14	Fair	No	No	None
795	Black birch	Betula lenta	18	Fair	No	No	None
796	Black birch	Betula lenta	19	Fair	No	No	None
797	Black cherry	Prunus serotina	15	Fair	No	No	None
798	Black birch	Betula lenta	22	Fair	No	No	None
799	Black birch	Betula lenta	14	Fair	No	No	Codominant at base
800	American elm	Ulmus americana	5	Fair	No	No	None
801	Black oak	Quercus velutina	23	Fair	No	Yes	None
802	Black birch	Betula lenta	17	Fair	No	No	None
803	Black birch	Betula lenta	15	Fair	No	No	None
804	Black cherry	Prunus serotina	28	Fair	No	No	None
805	Red oak	Quercus rubra	4	Fair	No	No	None
806	Black birch	Betula lenta	16	Fair	No	Yes	None
807	Sugar maple	Acer saccharum	7	Fair	Yes	Yes	None
808	Hornbeam	Carpinus caroliniana	4	Fair	Yes	Yes	None
809	Black birch	Betula lenta	18	Fair	Yes	Yes	None
810	Black birch	Betula lenta	15	Fair	Yes	Yes	None
811	Hornbeam	Carpinus caroliniana	4	Fair	Yes	Yes	None
812	Sugar maple	Acer saccharum	8	Fair	Yes	Yes	None
813	Hornbeam	Carpinus caroliniana	4	Fair	Yes	Yes	None
814	Black birch	Betula lenta	14	Fair	Yes	Yes	None
815	Black birch	Betula lenta	23	Fair	No	No	None
816	Hornbeam	Carpinus caroliniana	4	Fair	No	No	None
817	Hornbeam	Carpinus caroliniana	4	Fair	No	No	None
818	Black birch	Betula lenta	22	Fair	No	No	None
819	Black birch	Betula lenta	15	Fair	No	No	None
820	American elm	Ulmus americana	5	Fair	No	No	None
822	Sweet cherry	Prunus avium	20	Fair	No	No	None
823	Sweet cherry	Prunus avium	12	Fair	No	No	None
824	Red maple	Acer rubrum	19	Fair	No	No	None
825	Black birch	Betula lenta	19	Fair	No	No	None
826	Flowering dogwood	Cornus florida	4	Fair	No	No	None
827	American elm	Ulmus americana	4	Fair	No	No	None
828	Black birch	Betula lenta	25	Fair	No	No	None
829	Black birch	Betula lenta	15	Fair	No	No	None
830	Black birch	Betula lenta	13	Fair	No	No	None
831	Black cherry	Prunus serotina	7	Fair	No	No	None
832	Flowering dogwood	Cornus florida	5	Fair	No	No	None
833	Flowering dogwood	Cornus florida	5	Fair	No	No	None
834	Black cherry	Prunus serotina	5	Fair	No	No	None
835	Black birch	Betula lenta	17	Fair	No	No	None
836	Hornbeam	Carpinus caroliniana	5	Fair	No	No	None
837	American elm	Ulmus americana	7	Fair	No	No	None
838	Norway maple	Acer platanoides	8	Fair	Yes	Yes	Invasive species
842	Black birch	Betula lenta	13	Fair	Yes	Yes	None
843	Sugar maple	Acer saccharum	6	Fair	Yes	Yes	None
844	Black birch	Betula lenta	17	Fair	Yes	Yes	None
845	Norway maple	Acer platanoides	12	Fair	Yes	Yes	Invasive species
846	Hornbeam	Carpinus caroliniana	6	Fair	Yes	Yes	None
847	Sugar maple	Acer saccharum	11	Fair	Yes	Yes	None
848	Black birch	Betula lenta	21	Fair	No	No	None
849	Black birch	Betula lenta	22	Fair	No	No	None
850	Sugar maple	Acer saccharum	4	Fair	No	No	None
851	Black birch	Betula lenta	24	Fair	No	No	None
853	Black birch	Betula lenta	16	Fair	No	No	None
854	Norway maple	Acer platanoides	12	Fair	No	No	Invasive species
855	Hornbeam	Carpinus caroliniana	6	Fair	Yes	Yes	None
856	Black gum	Nyssa sylvatica	13	Fair	No	No	None
857	Hornbeam	Carpinus caroliniana	5	Fair	No	No	None
858	Hornbeam	Carpinus caroliniana	6	Fair	Yes	Yes	None
860	Black gum	Nyssa sylvatica	6	Fair	No	No	None
861	Sugar maple	Acer saccharum	6	Fair	No	No	None
862	White oak	Quercus alba	11	Fair	No	No	None
863	Norway maple	Acer platanoides	19	Fair	No	Yes	Invasive species
864	Black gum	Nyssa sylvatica	7	Fair	No	No	None
865	Red oak	Quercus rubra	24	Fair	No	Yes	None
866	Norway maple	Acer platanoides	10	Fair	No	No	Invasive species
867	Red oak	Quercus rubra	5	Fair	No	No	None

868	Red maple	Acer rubrum	5	Fair	No	No	None
869	White oak	Quercus alba	8	Fair	No	No	None
870	Sugar maple	Acer saccharum	8	Fair	No	No	None
871	Black cherry	Prunus serotina	10	Fair	No	No	None
872	Black cherry	Prunus serotina	7	Fair	No	No	None
873	Red oak	Quercus rubra	26	Fair	Yes	Yes	None
874	Black cherry	Prunus serotina	9	Fair	No	No	None
875	Red maple	Acer rubrum	6	Fair	No	No	None
876	Red maple	Acer rubrum	4	Fair	No	No	None
877	Red maple	Acer rubrum	11	Fair	No	No	None
878	Black cherry	Prunus serotina	16	Fair	No	No	None
879	Black cherry	Prunus serotina	13	Fair	Yes	Yes	None
880	Norway maple	Acer platanoides	11	Fair	Yes	Yes	Invasive species
882	Red maple	Acer rubrum	6	Fair	Yes	Yes	None
883	Black cherry	Prunus serotina	5	Fair	Yes	Yes	None
884	Red oak	Quercus rubra	8	Fair	Yes	Yes	None
885	Black birch	Betula lenta	35	Fair	Yes	Yes	Codominant at 3 feet; 18 and 17 inches
886	Black birch	Betula lenta	5	Fair	Yes	Yes	None
887	Red oak	Quercus rubra	7	Fair	No	No	None
888	Red maple	Acer rubrum	6	Fair	No	No	None
889	Red oak	Quercus rubra	15	Fair	No	No	None
890	Red oak	Quercus rubra	7	Fair	No	No	None
892	Red maple	Acer rubrum	5	Fair	Yes	Yes	None
893	Red oak	Quercus rubra	8	Fair	Yes	Yes	None
894	Black birch	Betula lenta	12	Fair	Yes	Yes	None
895	Black birch	Betula lenta	14	Fair	Yes	Yes	None
897	Black birch	Betula lenta	11	Fair	Yes	Yes	None
898	Black birch	Betula lenta	6	Fair	Yes	Yes	None
899	Red oak	Quercus rubra	5	Fair	Yes	Yes	None
900	Black birch	Betula lenta	15	Fair	Yes	Yes	None
901	Flowering dogwood	Cornus florida	4	Fair	Yes	Yes	None
903	Sugar maple	Acer saccharum	9	Fair	Yes	Yes	None
904	Black cherry	Prunus serotina	5	Fair	Yes	Yes	None
905	Sugar maple	Acer saccharum	10	Fair	Yes	Yes	None
906	Red oak	Quercus rubra	4	Fair	Yes	Yes	None
907	Black birch	Betula lenta	10	Fair	Yes	Yes	None
908	Red maple	Acer rubrum	5	Fair	Yes	Yes	None
909	Black birch	Betula lenta	10	Fair	No	Yes	None
910	Black cherry	Prunus serotina	12	Fair	No	No	None
911	Sugar maple	Acer saccharum	9	Fair	No	No	None
912	Black cherry	Prunus serotina	12	Fair	No	No	None
913	Black cherry	Prunus serotina	11	Fair	Yes	Yes	None
914	Red oak	Quercus rubra	18	Fair	No	No	None
916	Red oak	Quercus rubra	18	Fair	No	No	None
917	Red oak	Quercus rubra	9	Fair	Yes	Yes	None
918	Red maple	Acer rubrum	7	Fair	Yes	Yes	None
919	Red oak	Quercus rubra	7	Fair	Yes	Yes	None
920	Black cherry	Prunus serotina	7	Fair	Yes	Yes	None
921	Red oak	Quercus rubra	4	Fair	Yes	Yes	None
922	White oak	Quercus alba	10	Fair	Yes	Yes	None
924	Sugar maple	Acer saccharum	7	Fair	No	No	None
925	Red oak	Quercus rubra	19	Fair	No	Yes	None
926	Black cherry	Prunus serotina	6	Fair	Yes	Yes	None
927	Black birch	Betula lenta	15	Fair	Yes	Yes	None
928	Flowering dogwood	Cornus florida	4	Fair	Yes	Yes	None
930	Black cherry	Prunus serotina	4	Fair	Yes	Yes	None
931	Norway maple	Acer platanoides	8	Fair	No	No	Invasive species. Removal an option
932	Sugar maple	Acer saccharum	6	Fair	No	No	None
933	Black birch	Betula lenta	13	Fair	No	No	None
934	Red oak	Quercus rubra	4	Fair	Yes	Yes	None
936	Sugar maple	Acer saccharum	6	Fair	Yes	Yes	None
938	Norway maple	Acer platanoides	9	Fair	Yes	Yes	Invasive species
939	Black birch	Betula lenta	13	Fair	Yes	Yes	None
941	Black birch	Betula lenta	13	Fair	No	No	None
942	Black birch	Betula lenta	13	Fair	No	No	None
943	Norway maple	Acer platanoides	10	Fair	No	Yes	Invasive species
944	Black birch	Betula lenta	12	Fair	Yes	Yes	None
945	Sugar maple	Acer saccharum	9	Fair	No	No	None
946	Black birch	Betula lenta	14	Fair	Yes	Yes	None
947	Black birch	Betula lenta	15	Fair	Yes	Yes	None
948	Black birch	Betula lenta	14	Fair	Yes	Yes	None
949	Red oak	Quercus rubra	5	Fair	No	No	None
950	Red oak	Quercus rubra	5	Fair	No	No	None
951	Red oak	Quercus rubra	6	Fair	Yes	Yes	None
952	Sugar maple	Acer saccharum	7	Fair	Yes	Yes	None
953	Red oak	Quercus rubra	4	Fair	No	No	None
954	Red oak	Quercus rubra	4	Fair	No	No	None
955	Black birch	Betula lenta	26	Fair	Yes	Yes	None
956	Shagbark hickory	Carya ovata	4	Fair	Yes	Yes	None
957	Red oak	Quercus rubra	4	Fair	Yes	Yes	None
958	Red oak	Quercus rubra	4	Fair	No	No	None
959	Sugar maple	Acer saccharum	6	Fair	No	No	None
960	Sugar maple	Acer saccharum	6	Fair	Yes	Yes	None
961	Sugar maple	Acer saccharum	6	Fair	Yes	Yes	None
962	Black birch	Betula lenta	19	Fair	Yes	Yes	None
963	Sugar maple	Acer saccharum	4	Fair	Yes	Yes	None
964	Black birch	Betula lenta	11	Fair	Yes	Yes	None
966	Sugar maple	Acer saccharum	5	Fair	Yes	Yes	None
967	Sugar maple	Acer saccharum	4	Fair	Yes	Yes	None
968	Black birch	Betula lenta	16	Fair	Yes	Yes	None
969	Sugar maple	Acer saccharum	17	Fair	Yes	Yes	None
970	Sugar maple	Acer saccharum	17	Fair	Yes	Yes	None
973	Red oak	Quercus rubra	5	Fair	Yes	Yes	None
974	Mockernut hickory	Carya tomentosa	4	Fair	Yes	Yes	None
976	Norway maple	Acer platanoides	6	Fair	Yes	Yes	Invasive species
977	Red maple	Acer rubrum	8	Fair	Yes	Yes	None
978	Sugar maple	Acer saccharum	6	Fair	Yes	Yes	None
979	Mockernut hickory	Carya tomentosa	4	Fair	No	No	None
982	Red oak	Quercus rubra	8	Fair	No	No	None
983	Red oak	Quercus rubra	21	Fair	No	Yes	None
984	Red oak	Quercus rubra	6	Fair	No	No	None
985	Red oak	Quercus rubra	7	Fair	No	No	None
986	Norway maple	Acer platanoides	5	Fair	No	No	Invasive species
987	Mockernut hickory	Carya tomentosa	7	Fair	No	No	None
988	Red oak	Quercus rubra	19	Fair	No	No	None
989	Red oak	Quercus rubra	20	Fair	No	No	None
990	American elm	Ulmus americana	5	Fair	Yes	Yes	None
991	Red oak	Quercus rubra	20	Fair	Yes	Yes	None
992	Sugar maple	Acer saccharum	9	Fair	No	No	None
993	Red oak	Quercus rubra	7	Fair	No	No	None
994	Red maple	Acer rubrum	5	Fair	No	No	None
995	Norway maple	Acer platanoides	7	Fair	No	No	Invasive species
996	Black birch	Betula lenta	24	Fair	Yes	Yes	None
997	Black birch	Betula lenta	14	Fair	Yes	Yes	None
998	Sugar maple	Acer saccharum	4	Fair	Yes	Yes	None
999	Red oak	Quercus rubra	6	Fair	Yes	Yes	None
1000	Norway maple	Acer platanoides	12	Fair	No	No	Invasive species
1001	Red oak	Quercus rubra	7	Fair	No	No	None
1002	Red maple	Acer rubrum	11	Fair	No	Yes	None
1003	Red maple	Acer rubrum	7	Fair	No	No	None
1004	Red maple	Acer rubrum	8	Fair	No	No	None
1005	Mockernut hickory	Carya tomentosa	5	Fair	No	No	None
1006	Black cherry	Prunus serotina	18	Fair	No	Yes	None
1007	Mockernut hickory	Carya tomentosa	4	Fair	Yes	Yes	None
1008	Red oak	Quercus rubra	40	Fair	No	Yes	Codominant at 3 feet; 22 and 18 inches
1009	Red oak	Quercus rubra	11	Fair	No	No	None
1010	Shagbark hickory	Carya ovata	6	Fair	No	No	None
1011	Black cherry	Prunus serotina	5	Fair	No	No	None
1012	Red oak	Quercus rubra	27	Fair	No	No	None
1013	Red oak	Quercus rubra	17	Fair	No	No	None
1014	Red oak	Quercus rubra	4	Fair	No	No	None
1015	Red oak	Quercus rubra	4	Fair	Yes	Yes	None
1016	Norway maple	Acer platanoides	12	Fair	Yes	Yes	Invasive species
1017	Alatanthus	Alatanthus altissima	13	Fair	Yes	Yes	Invasive species
1018	Alatanthus	Alatanthus altissima	9	Fair	Yes	Yes	Invasive species
1019	Red oak	Quercus rubra	10	Fair	No	No	None

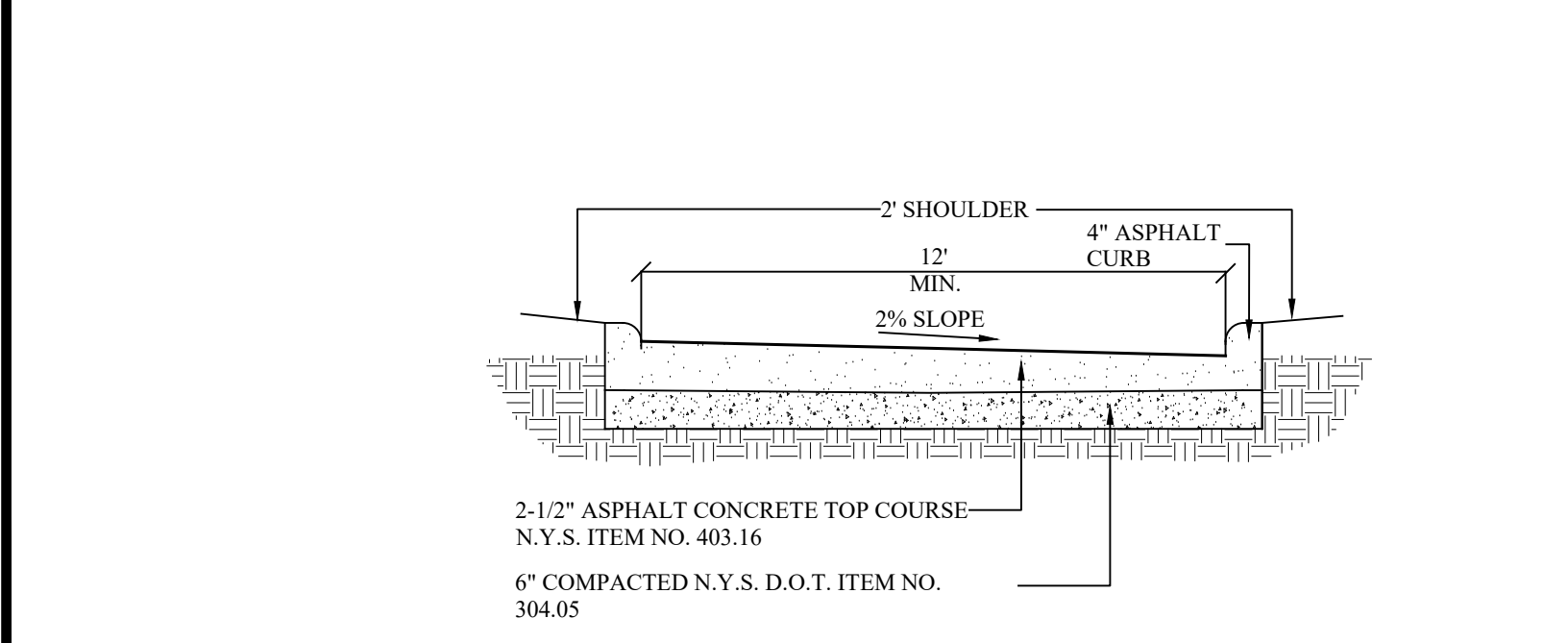


Tensar. NORTH AMERICAN GREEN
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Drawn on: 01-28-13

E-6 **EROSION BLANKET DETAIL**
NOT TO SCALE

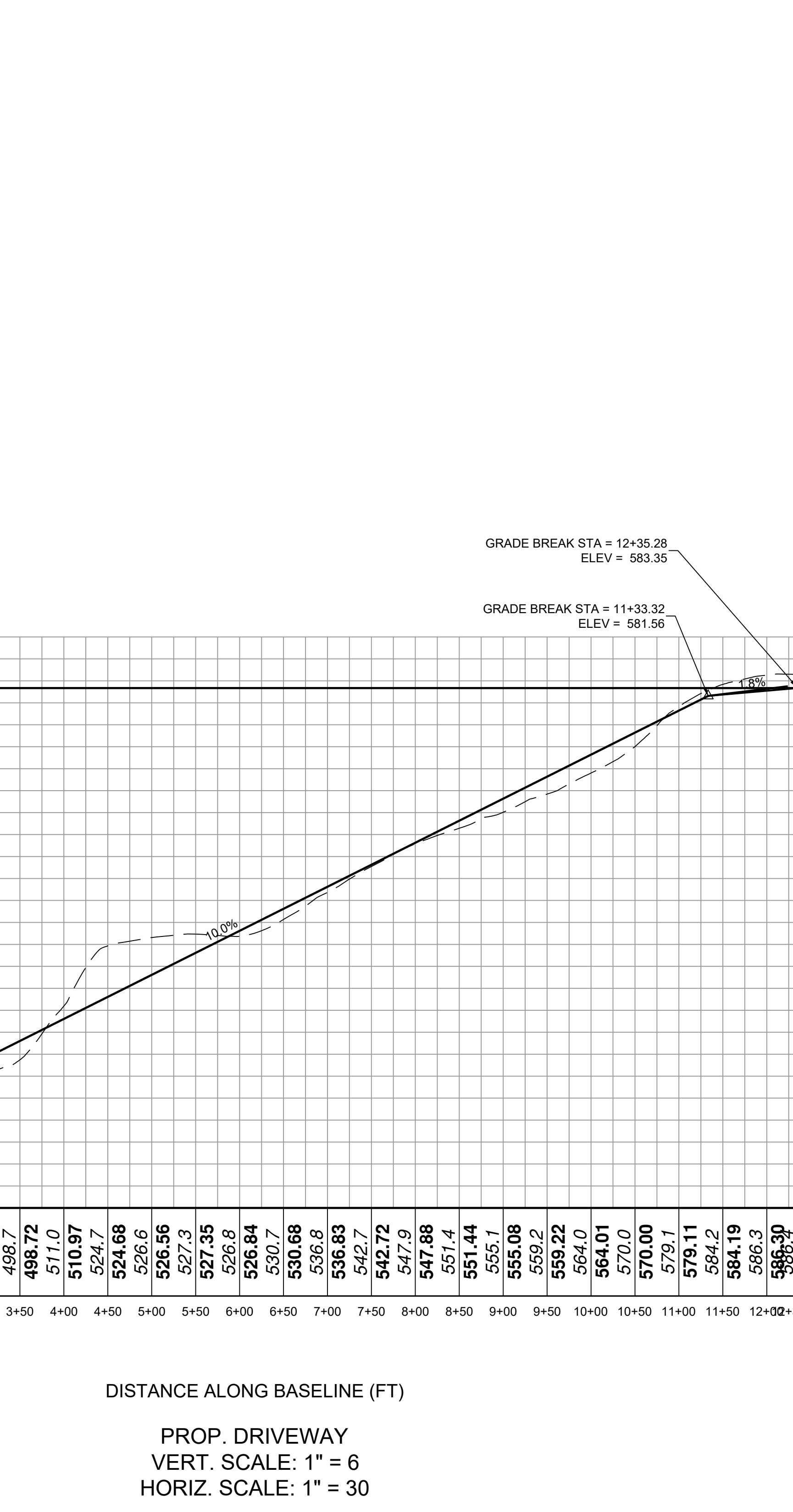
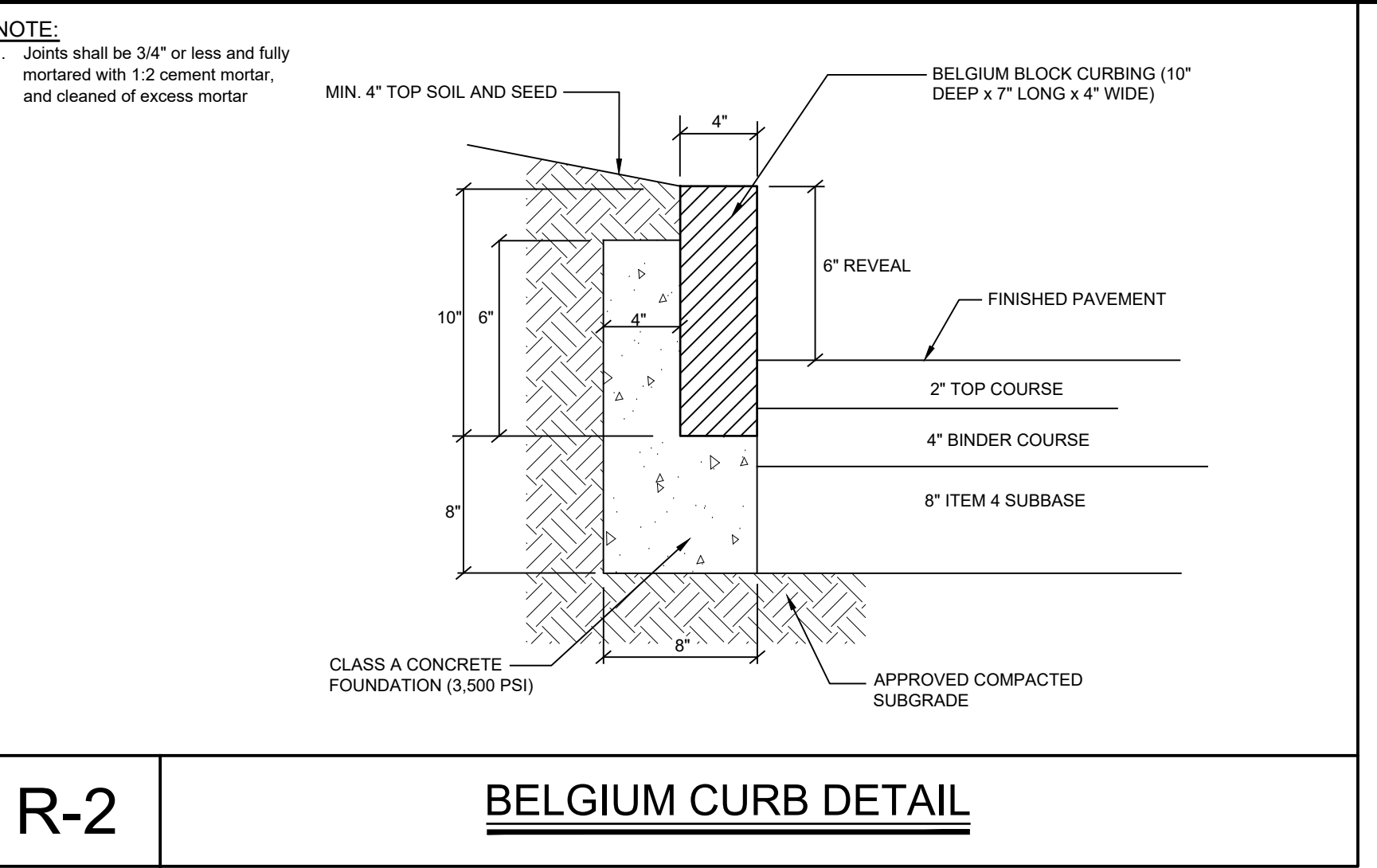
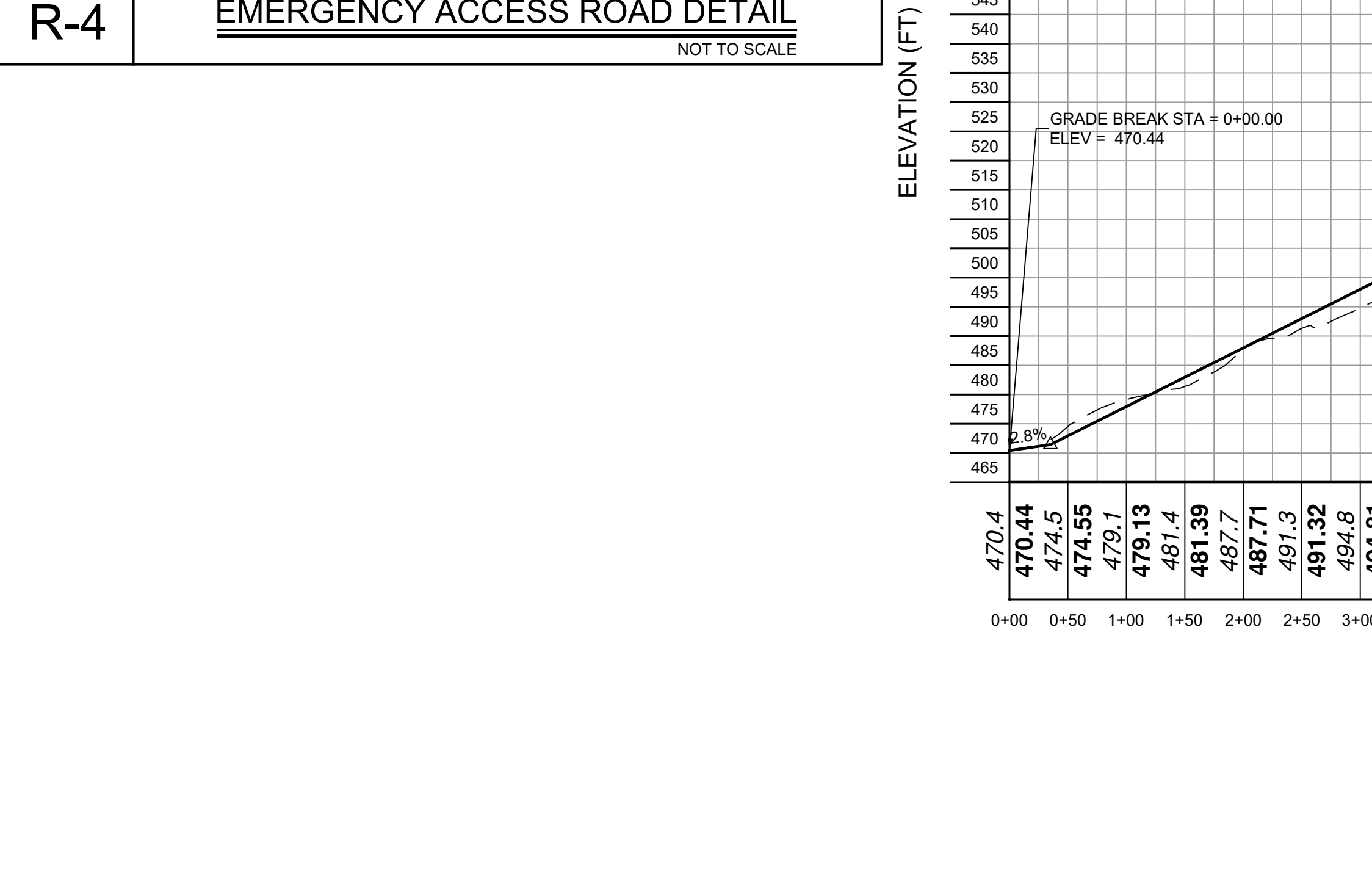
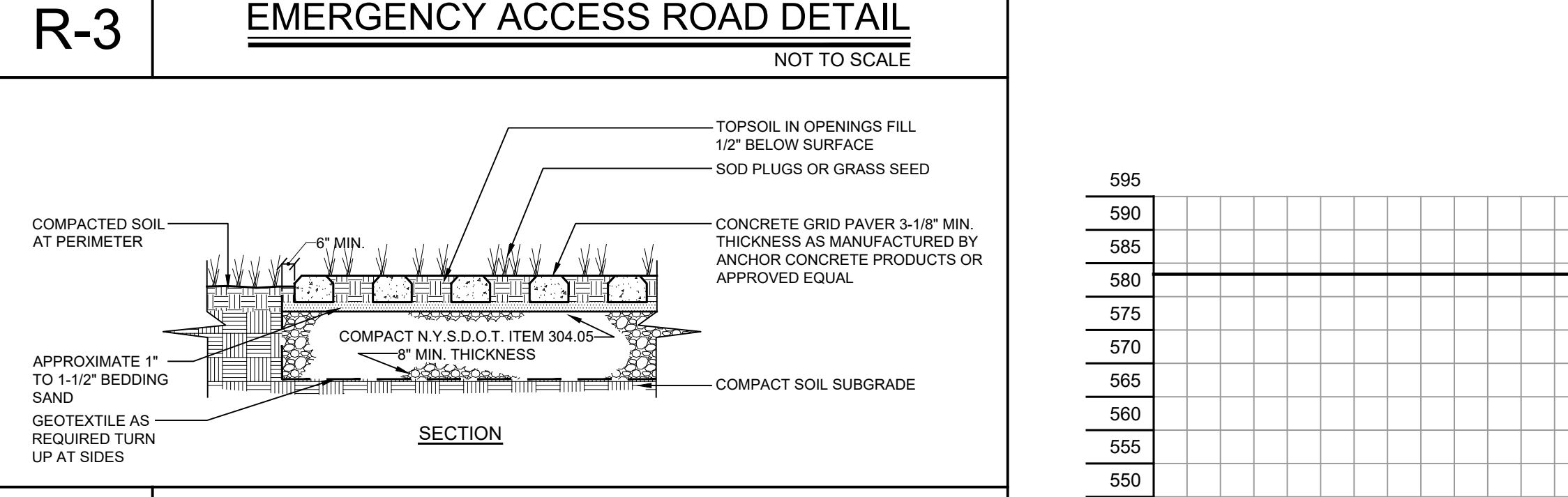
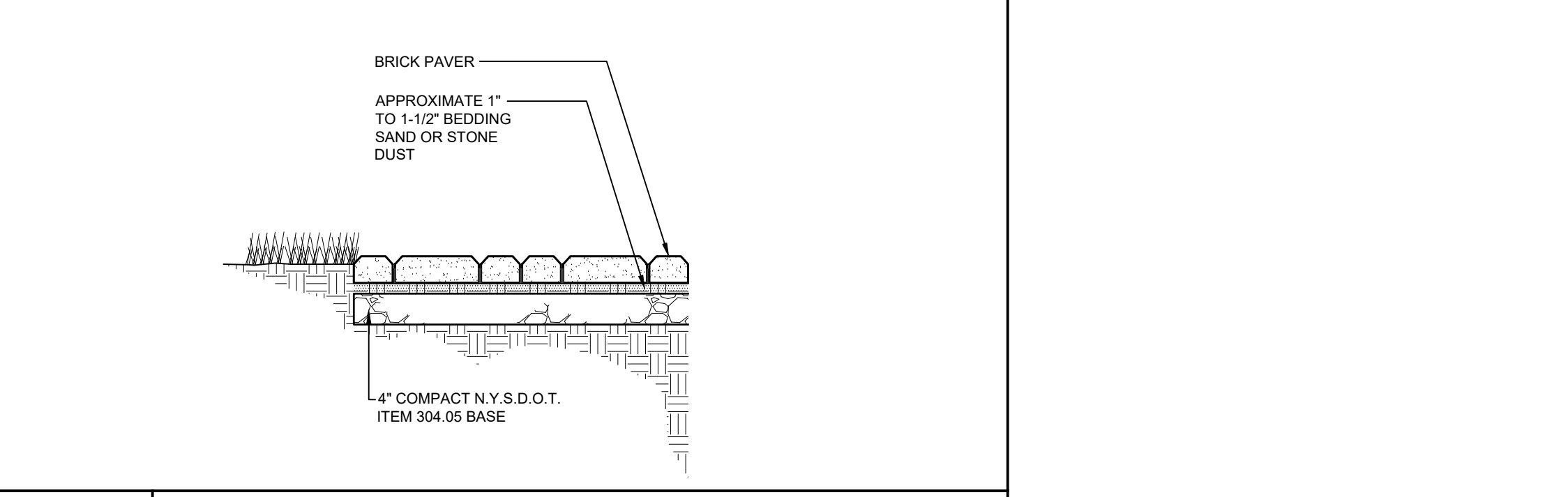
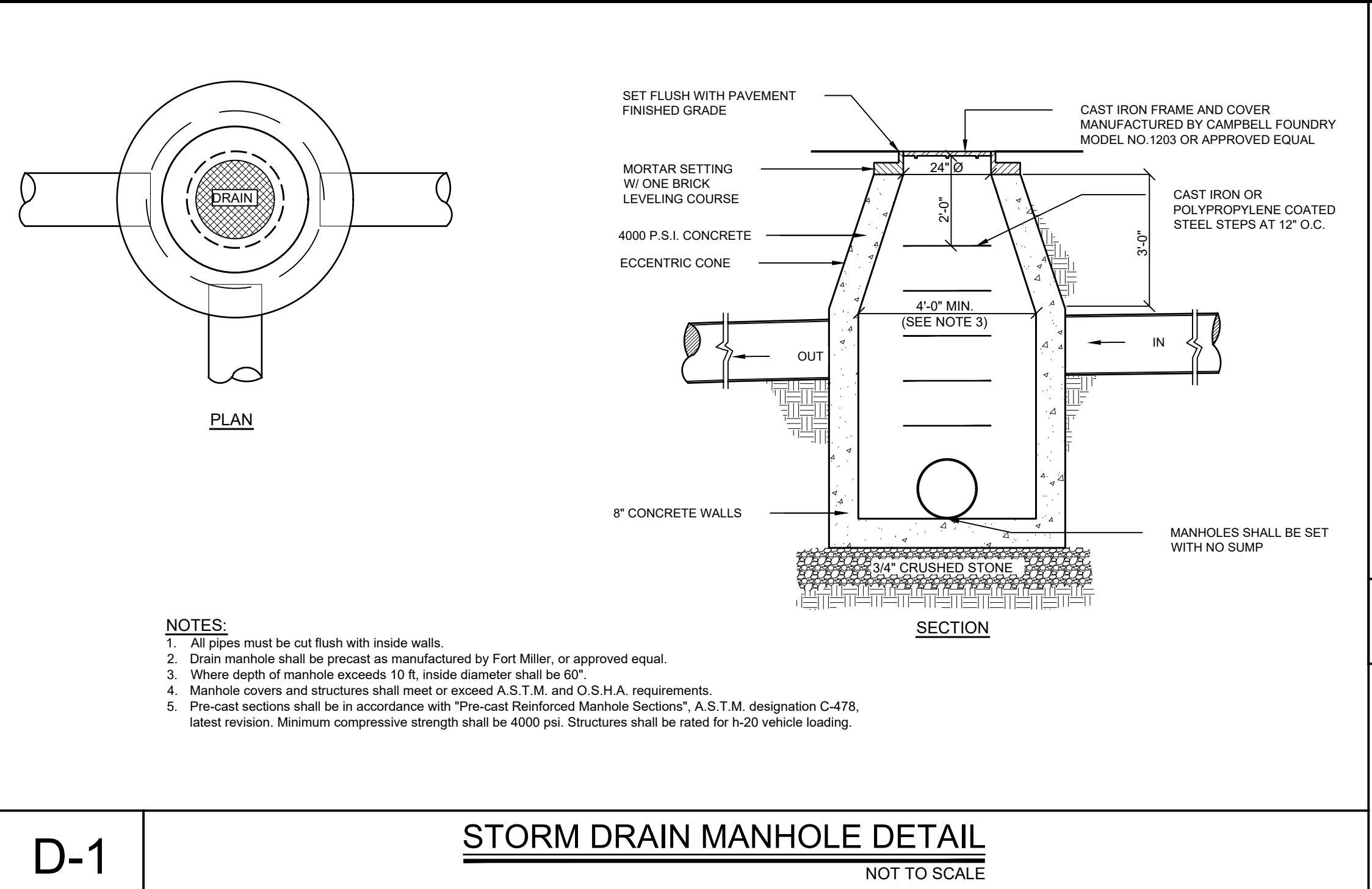


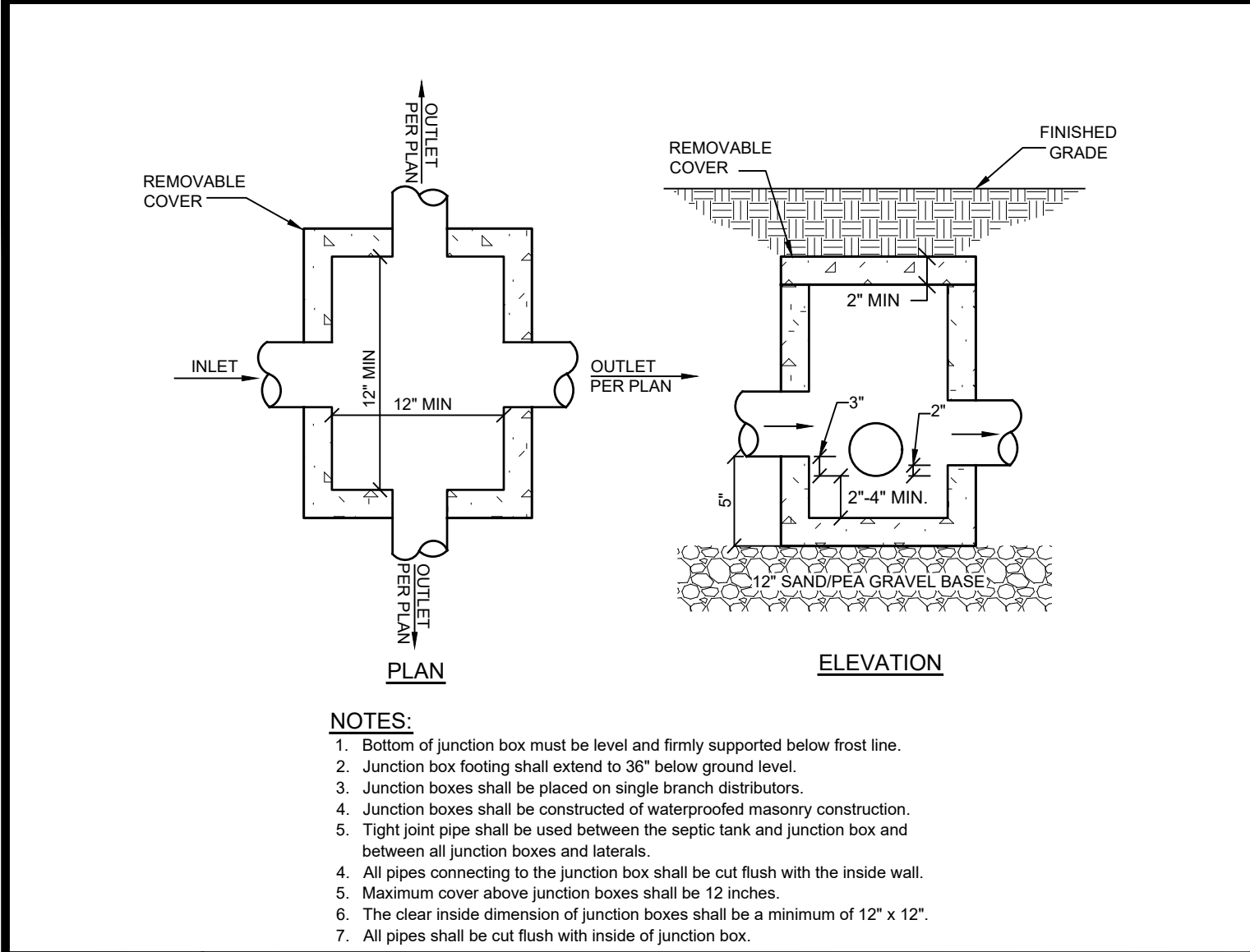
R-1 **HOUSE DRIVEWAY DETAIL**
NOT TO SCALE

SLOPE INSTALLATION EARTH ANCHOR (EA) DETAIL

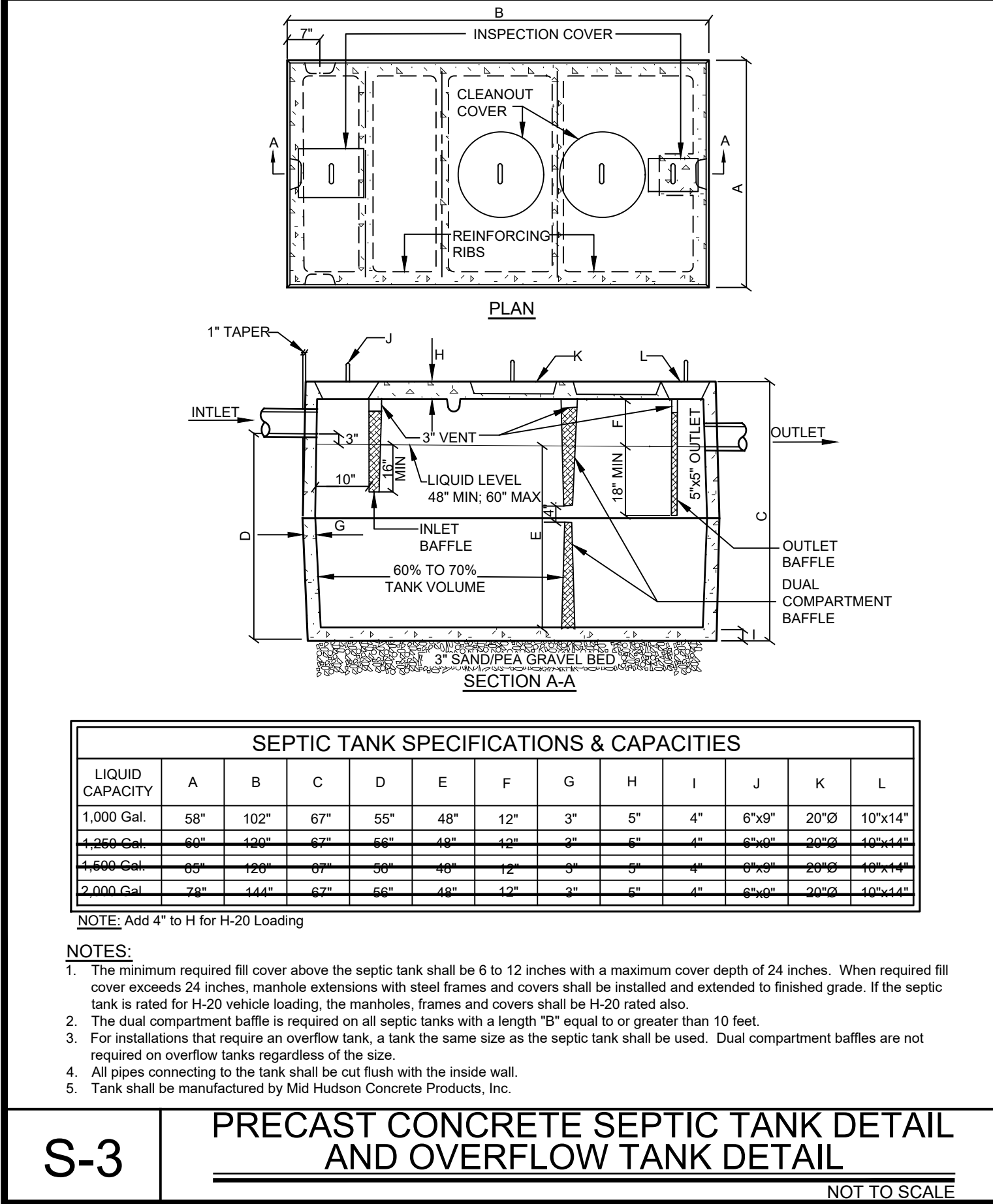
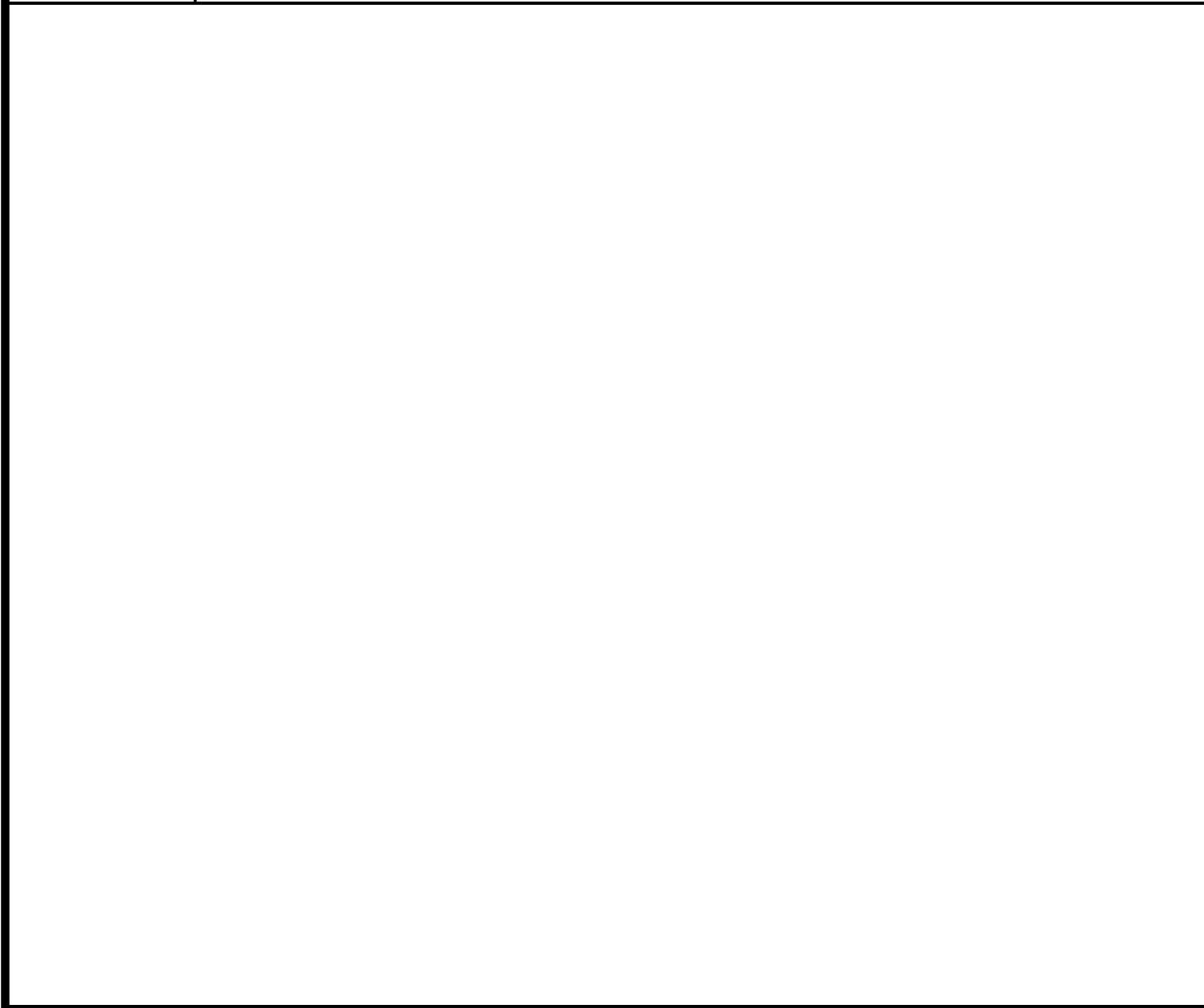
1. Prepare soil before installing high-performance turf reinforcement mats (HP-TRMs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the HP-TRMs in a 6" (15 cm) deep x 6" (15cm) wide trench with approximately 12" (30 cm) of HP-TRMs extended beyond the up-slope portion of the trench. Anchor the HP-TRMs with a row of staples and anchors approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of HP-TRMs back over seed and compacted soil. Secure HP-TRMs over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) apart across the width of the HP-TRMs.
3. Roll the HP-TRMs (A) down or (B) horizontally across the slope. HP-TRMs will unroll with appropriate side against the soil surface. All HP-TRMs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. The edges of parallel HP-TRMs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the HP-TRM type.
5. Consecutive HP-TRMs spliced down the slope must be end over end (Shingle style) with an approximate 3"(7.5cm) overlap. Staple through overlapped area, approximately 12"(30cm) apart across entire HP-TRM width.

NOTE:
In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the HP-TRMs.

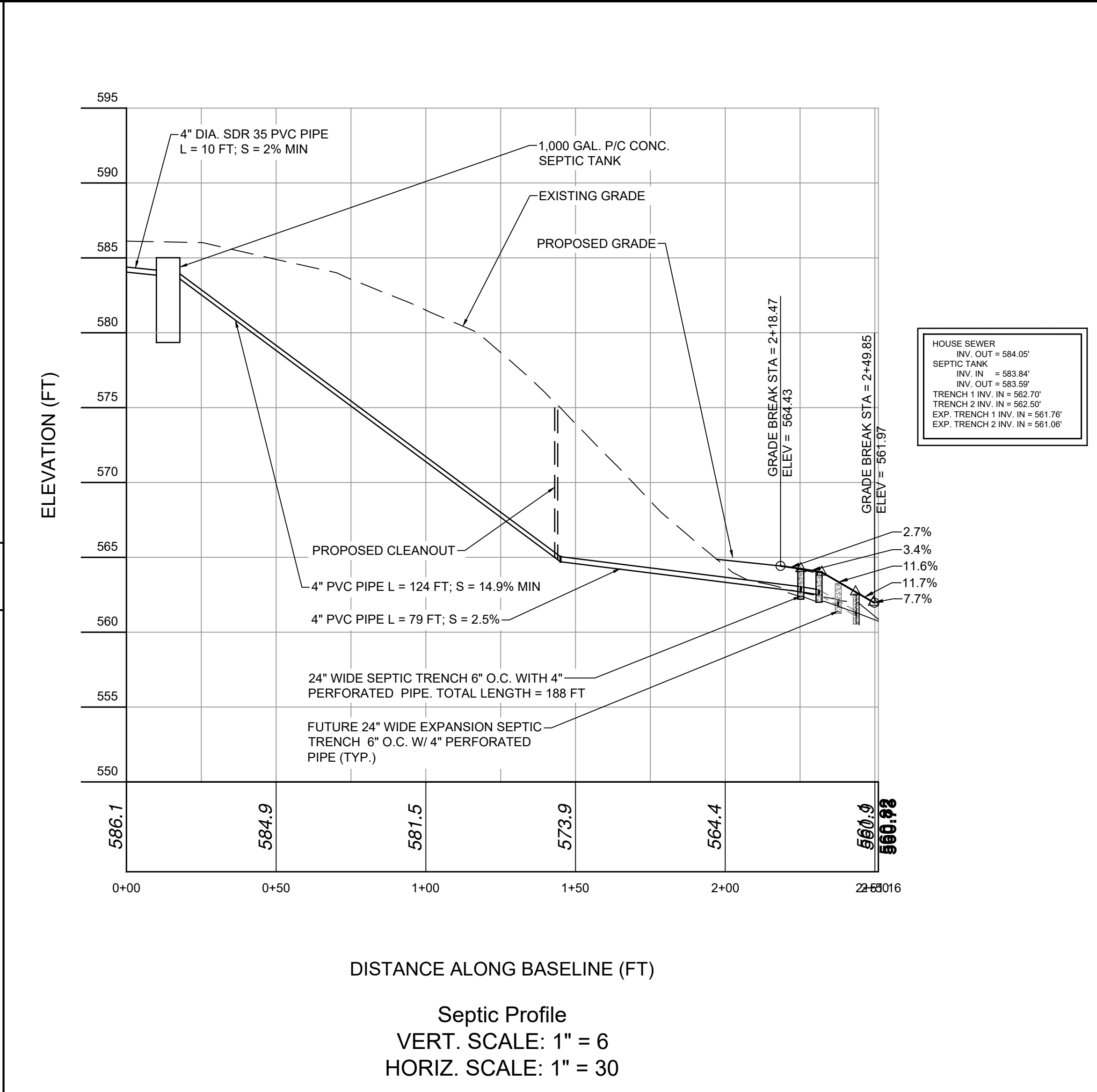




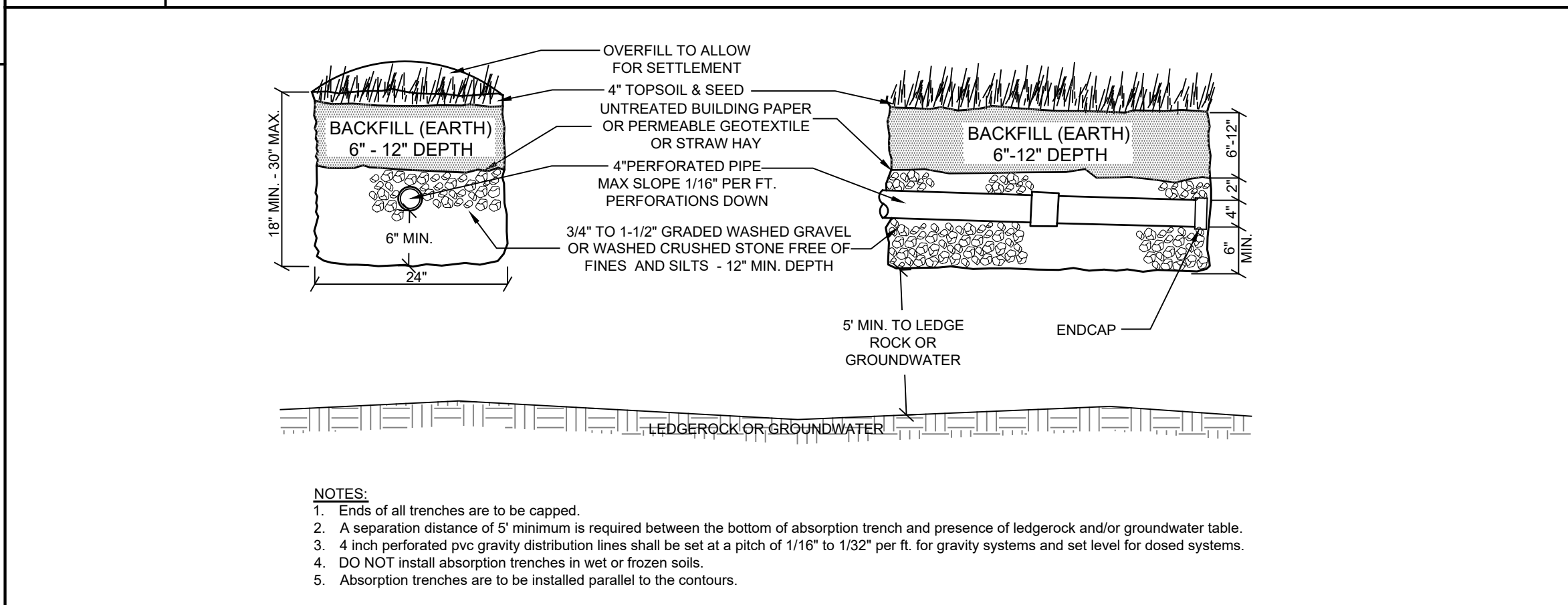
S-1 JUNCTION BOX DETAIL
NOT TO SCALE



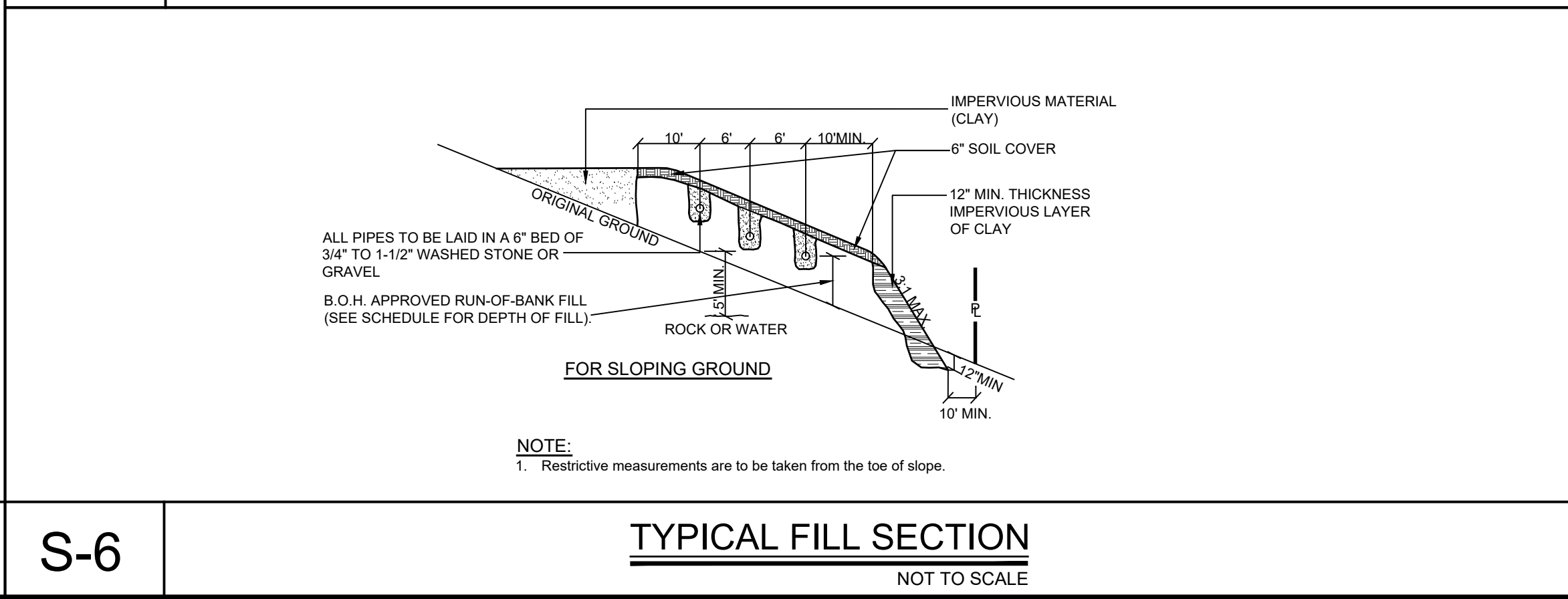
S-3 PRECAST CONCRETE SEPTIC TANK DETAIL
AND OVERFLOW TANK DETAIL
NOT TO SCALE



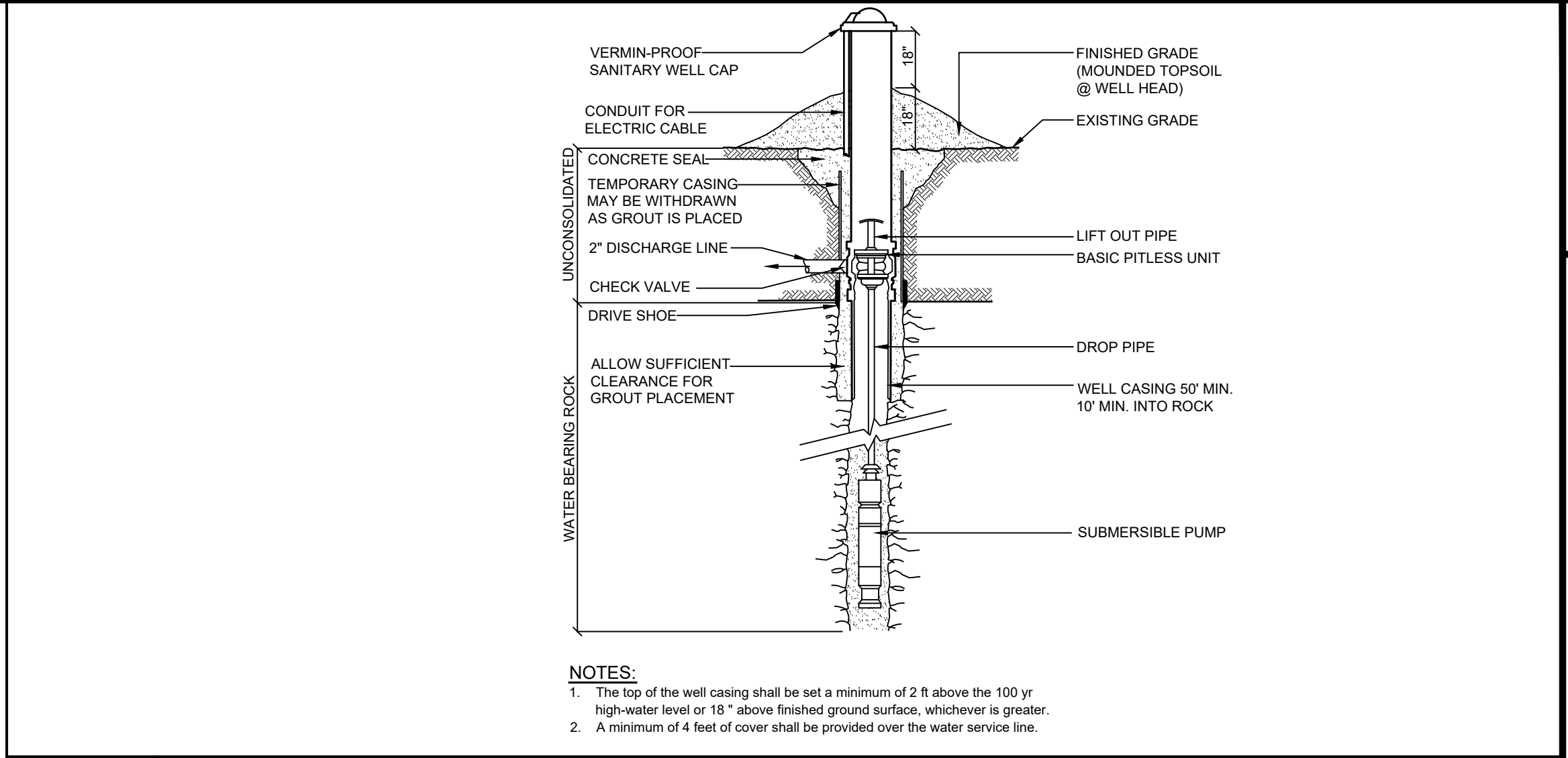
S-4 SEPTIC SYSTEM DETAIL
NOT TO SCALE



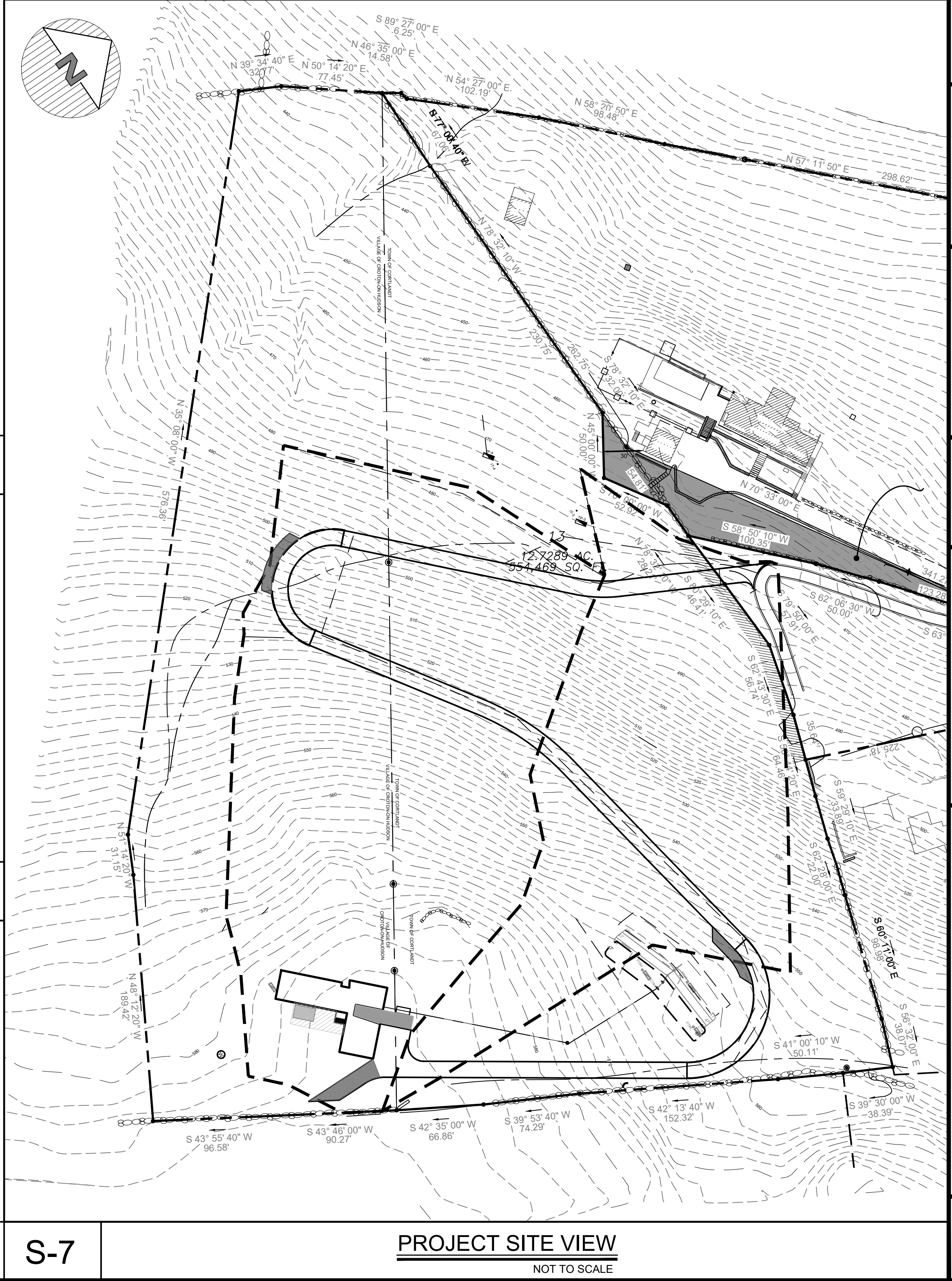
S-5 PERFORATED PIPE TRENCH DETAIL
NOT TO SCALE



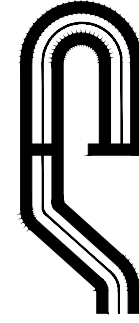
S-6 TYPICAL FILL SECTION
NOT TO SCALE



W-1 DRILLED WELL DETAIL
NOT TO SCALE



S-7 PROJECT SITE VIEW
NOT TO SCALE



PROJECT # 21-22

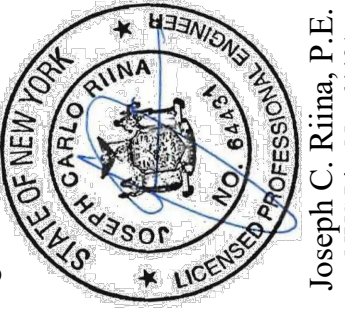
Site Design Consultants

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Engineer: Joseph C. Rima, P.E.
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Revisions:	No.	Date	Comments
	1	8/30/2022	Eng. comments
	2	1/3/2023	WCHD comments
	3	10/17/2023	Town comments
	5	2/16/2024	Town comments

SCALE:	AS NOTED
DRAWN BY: <td>CS</td>	CS
DATE: <td>06/28/21</td>	06/28/21

SEPTIC SYSTEM SITE PLAN AND DETAILS

SITE PLAN PREPARED FOR

THOMAS HANNIGAN JR

PROJECT LOCATION

0 ALBANY POST ROAD

Town of Croton-on-Hudson Westchester County, NY

Sheet 11 of 12

