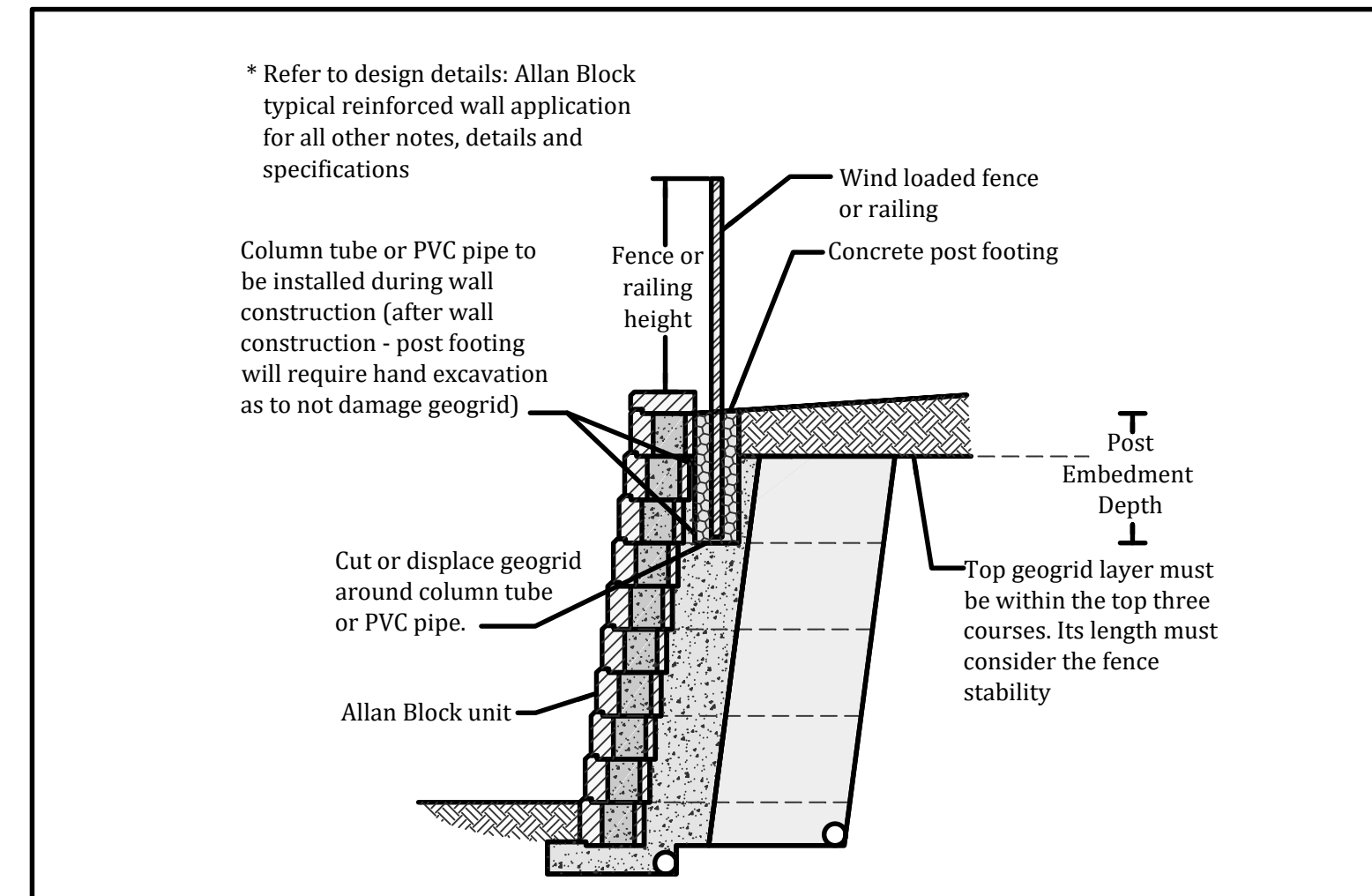
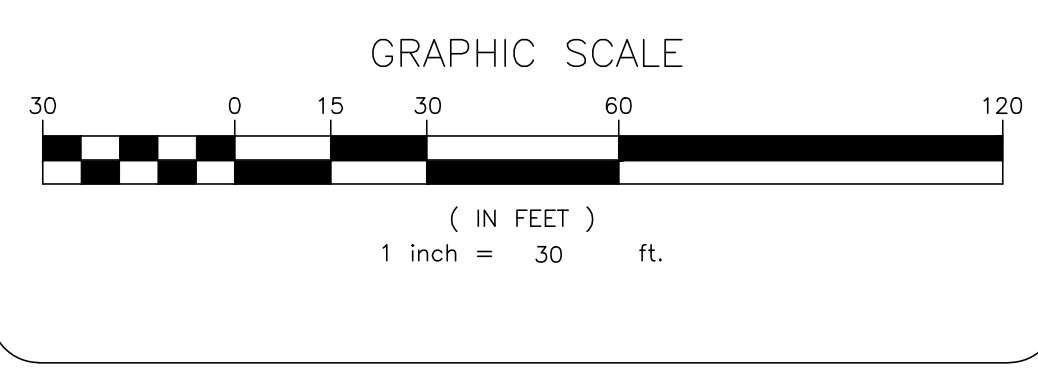
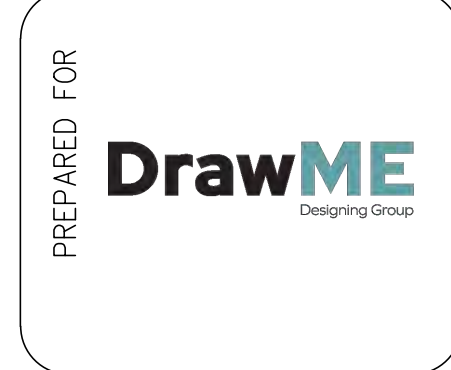


Designed By:	Title: AB-01 TYPICAL GRAVITY WALL	Date:
Checked By:	The purpose of this drawing is for preliminary design only. This should not be used for final design or construction without the certification of a professional engineer registered in the state in which the wall will be built. The accuracy and use of details contained in this document are the sole responsibility of the user. The user must verify each detail for accuracy as they pertain to their particular project.	
Scale:	Project No:	Drawing No:
Not to Scale		



Designed By:	Title: AB-30 WIND FENCE 1	Date:
Checked By:	The purpose of this drawing is for preliminary design only. This should not be used for final design or construction without the certification of a professional engineer registered in the state in which the wall will be built. The accuracy and use of details contained in this document are the sole responsibility of the user. The user must verify each detail for accuracy as they pertain to their particular project.	
Scale:	Project No:	Drawing No:
Not to Scale		

- LEGEND:**
- BF BASEMENT FLOOR ELEVATION
 - FF FIRST FLOOR ELEVATION
 - TG TOP OF GRATE
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - TW TOP OF WALL
 - BW BOTTOM OF WALL
 - (800) PROPOSE GRADE



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NO.	REVISION	DATE	DR/CK

JOSIP MEDIC, PE

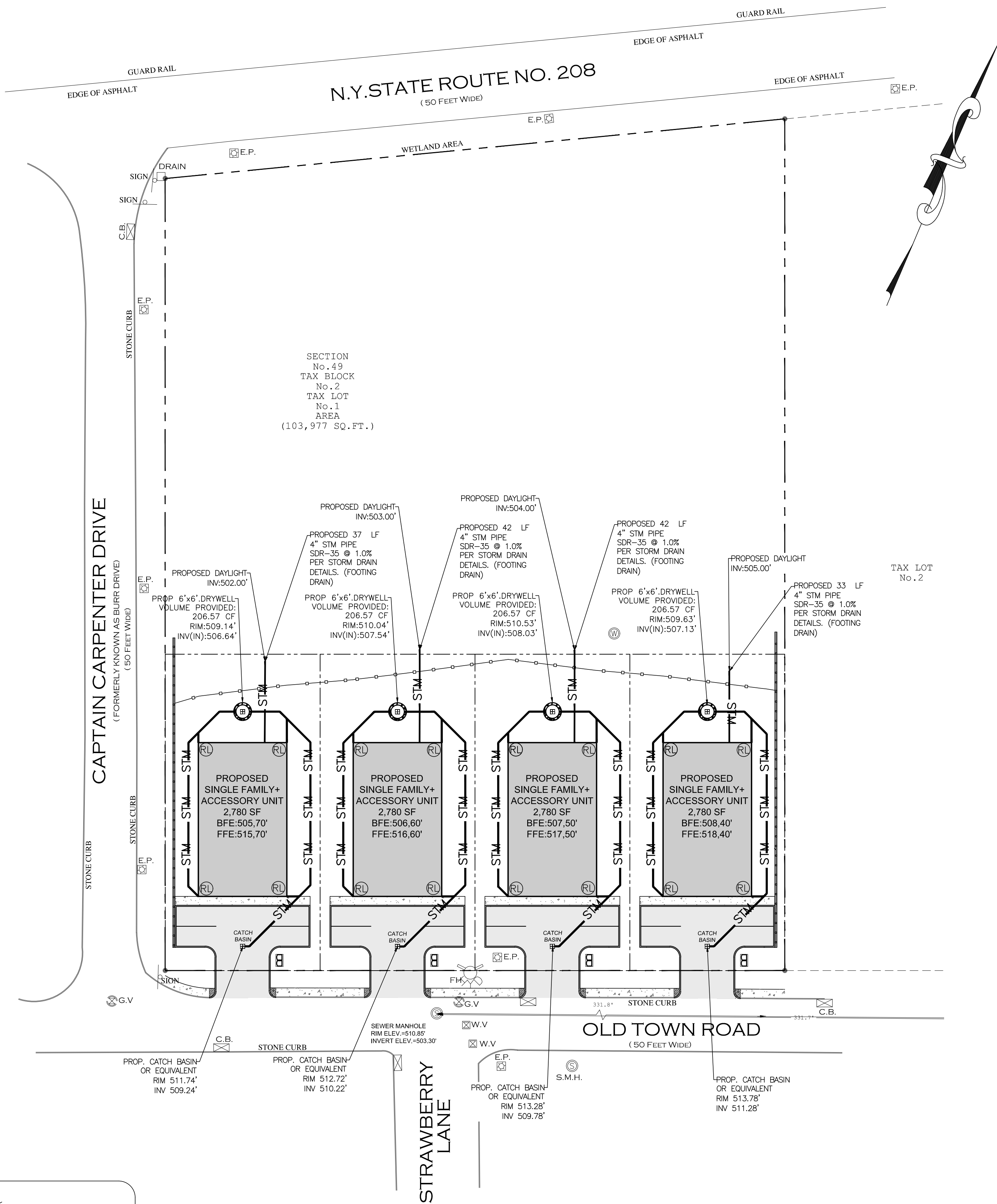
LIC. 103757 DATE 01/24/2025

GRADING PLAN

DESIGN BY:	DRAWN BY:	CHECKED BY:
VB	ER	JM

7 OLD TOWN RD
7 OLD TOWN ROAD, VILLAGE OF SOUTH BLOOMING GROVE
TOWN OF BLOOMING GROVE, ORANGE COUNTY, NY 10950
SBL 49-2-1

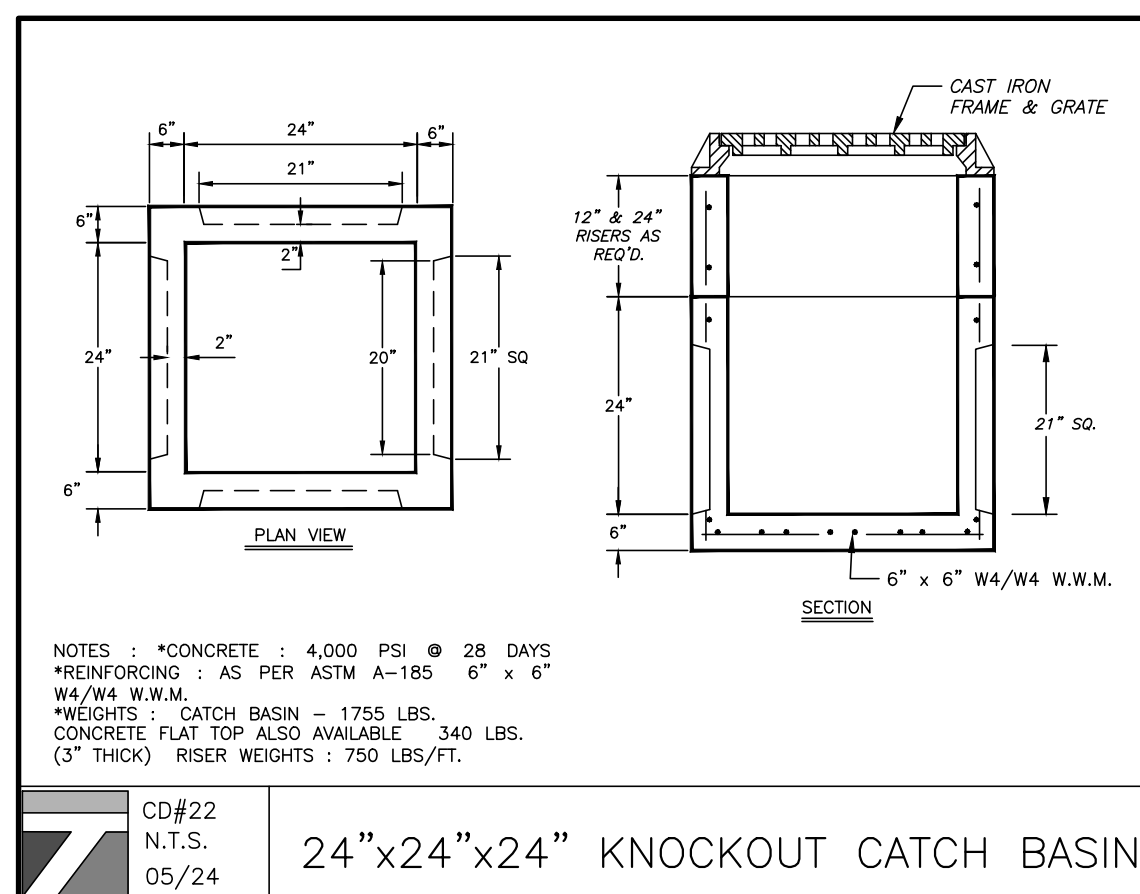
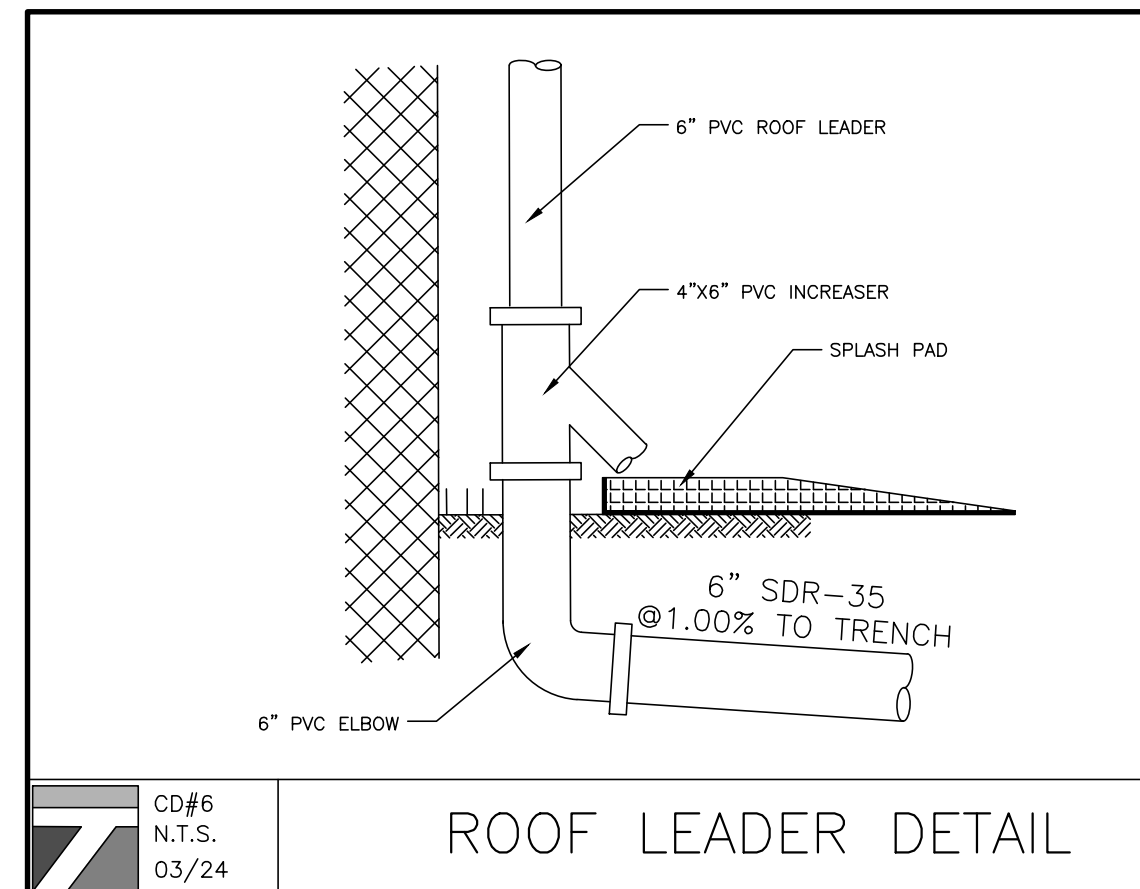
DRAWING NUMBER:	SCALE:	FILE NO.:	DATE:
03 OF 07	1"=30'	24299	01/24/2025



LEGEND:

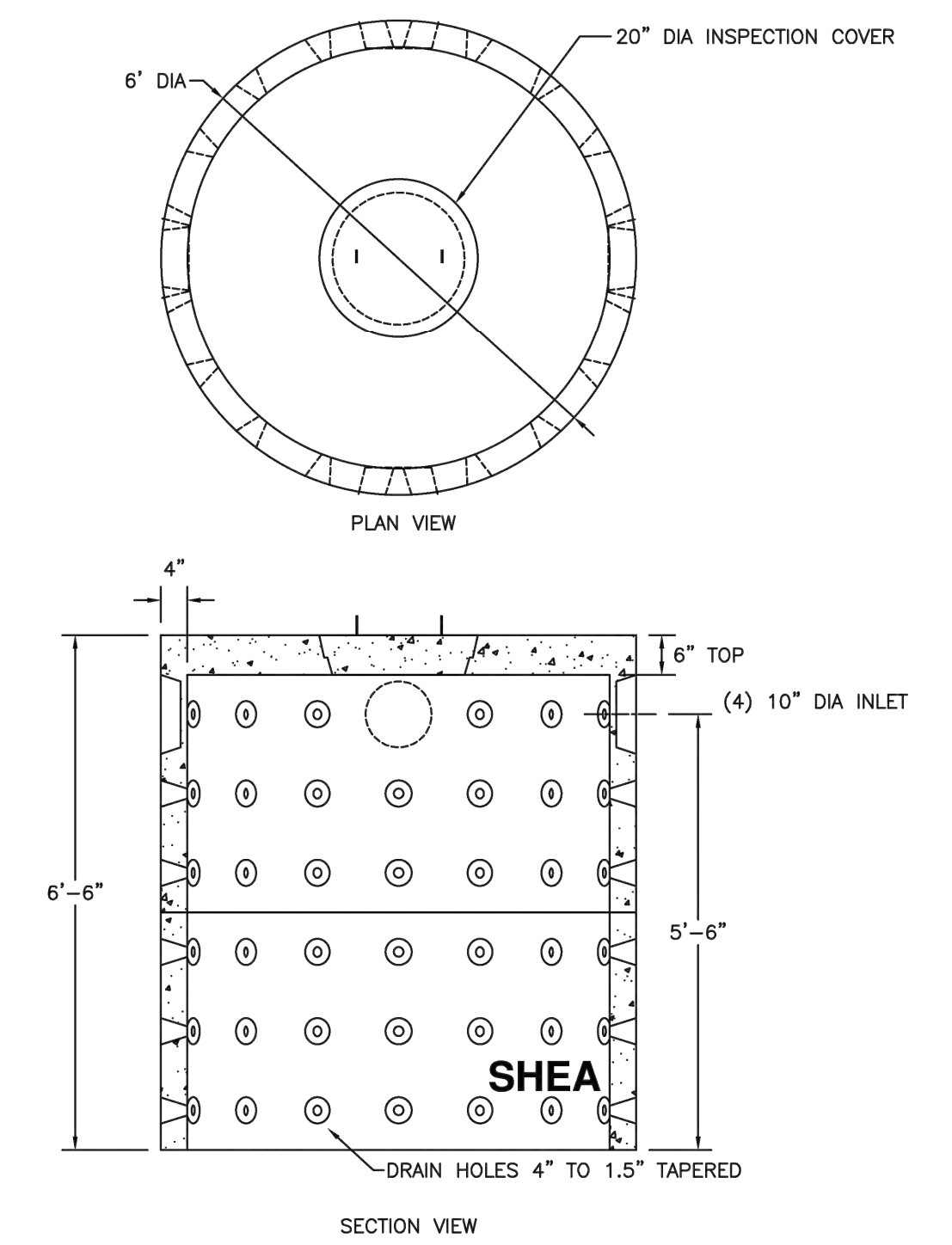
- RL PROPOSED 6" PVC ROOF LEADER LEADER PER STORM DRAIN DETAILS.
- ⊞ PROPOSED 24"x24"x24" KNOCKOUT CATCH BASIN PER STORM DRAIN DETAILS
- ⊕ PROPOSED CLEANOUT OR DRAIN
- STM PROPOSED 6" STM PIPE SDR-35 @ MIN 1.0% PER STORM DRAIN DETAILS. UNLESS NOTED OTHERWISE

RUNOFF CALCULATIONS:
4,185.71 SF (PROPOSED COVERAGE)
0.50 INCH/ 2 HOUR STORM
4,185.71 SF X 0.50 IN X 1 FT/12 INCHES
= 174.40 CF REQUIRED
1 DRYWELL = 1,000 GAL = 133.68 CF
STONE ANNULAR RING (1 FT) = $\pi \times (4^2 - 3^2) \times 6$ FEET
STONE ANNULAR RING VOLUME = 131.95 CF
STONE BASE AREA (1 FT) = $\pi \times 4$ FEET² = 50.27 SQ FT
STONE BASE VOLUME = 50.27 SQ FT X 1 FT = 50.27 CF
TOTAL STONE = 182.22 CF
STONE VOID = 40%
TOTAL DETENTION VOLUME PER DRYWELL = 133.68 CF + (182.22 CF x 0.40)
TOTAL DETENTION VOLUME PER DRYWELL = 206.57 CF
TOTAL DRYWELLS PROVIDED = 1
TOTAL DETENTION VOLUME PROVIDED = 206.57 CF > 174.40 CF



SHEA New England's Premier Precaster
CONCRETE PRODUCTS
800-696-7432 (SHEA)
www.sheaconcrete.com
BILLING ADDRESS: 87 HAVERHILL RD., AMESBURY MA 01913

DRY WELL CYLINDRICAL
1000 GALLON STACKABLE

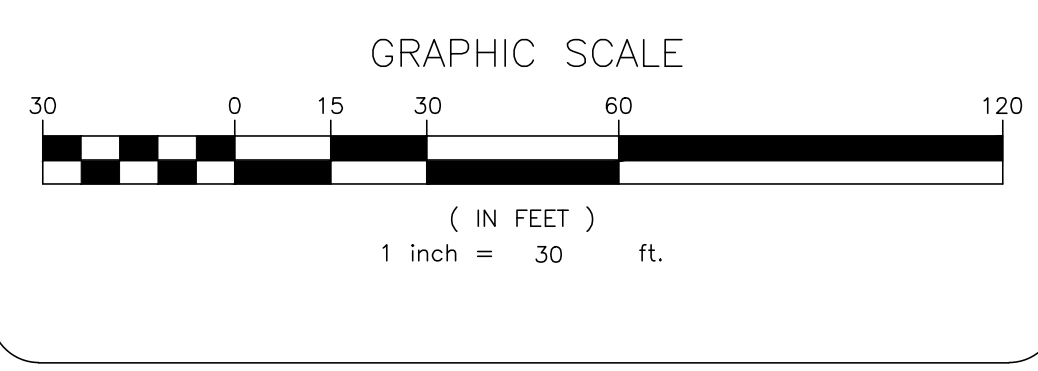
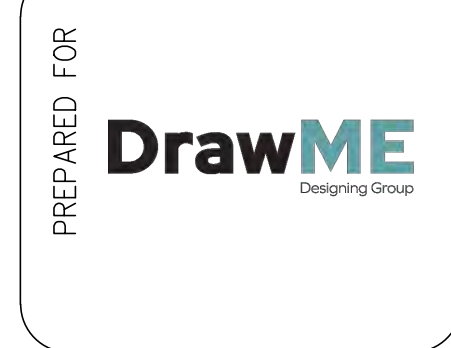
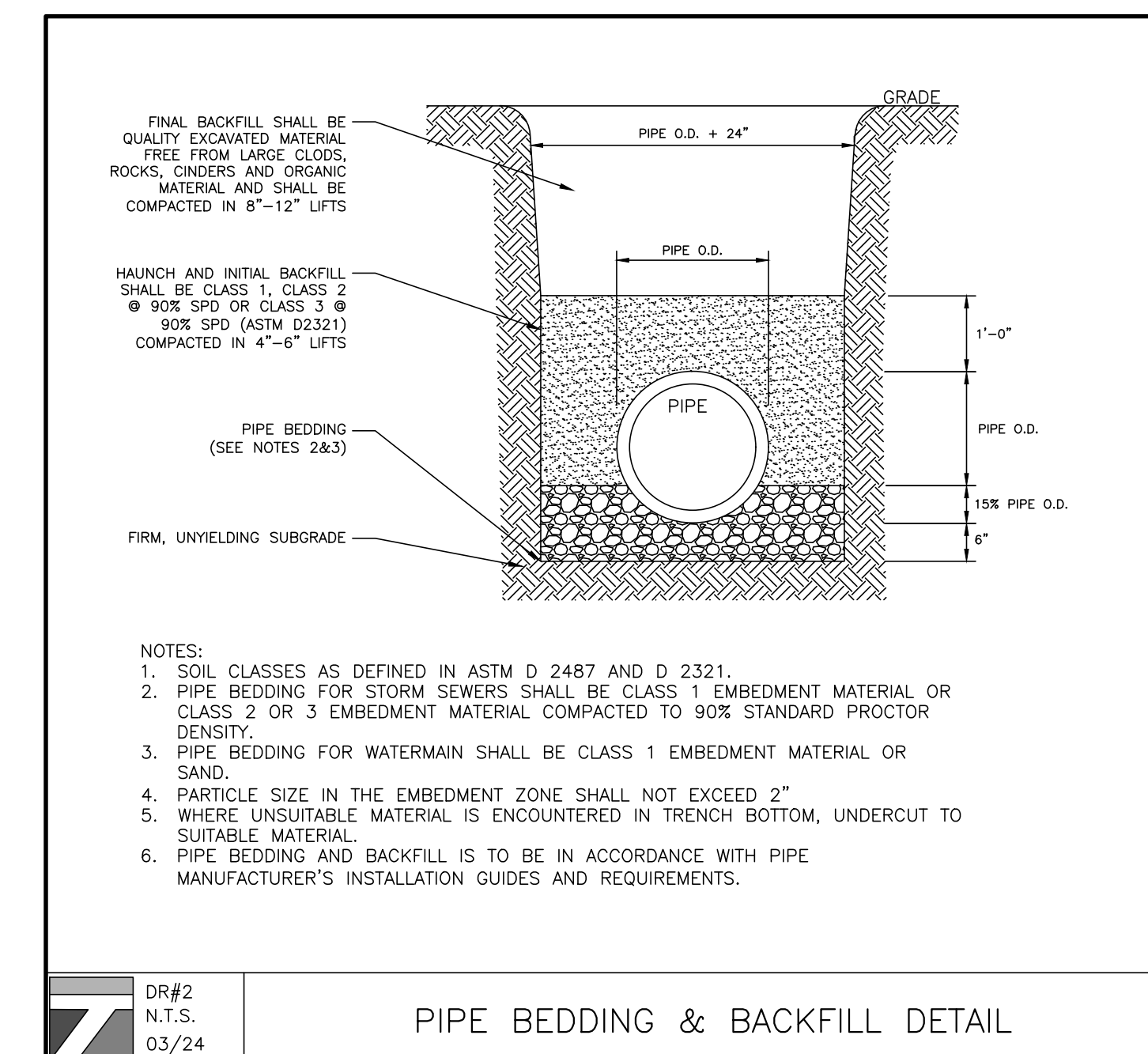


NOTES:

1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
2. ALSO AVAILABLE IN AASHTO HS-20 LOADING.
3. CAPACITY INCREASES IN INCREMENTS OF 500 GALLONS FOR EACH 3' SECTION ADDED.

ITEM NO.	STANDARD	WEIGHT
1000SDW	H-20	6,778#
1000SDWH	H-20	6,778#
3' STACKABLE	3SS	2,008#

SHEA PRODUCT ID: SEE TABLE PREPARED FOR: FILE NAME: dwc1000.dwg
WEIGHT (LBS): SEE TABLE DRAWN BY: ARO DATE: 06/01/18 PAGE: F4.3
773 Salem Street-Wilmington, MA | 153 Cranberry Hwy-Rochester, MA | 87 Haverhill Road-Amesbury, MA | 160 Old Tumpike Rd-Nottingham, NH
Specifications subject to change without notice



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NO.	REVISION	DATE	DR/CK

JOSIP MEDIC, PE

LIC. 103757 DATE 01/24/2025

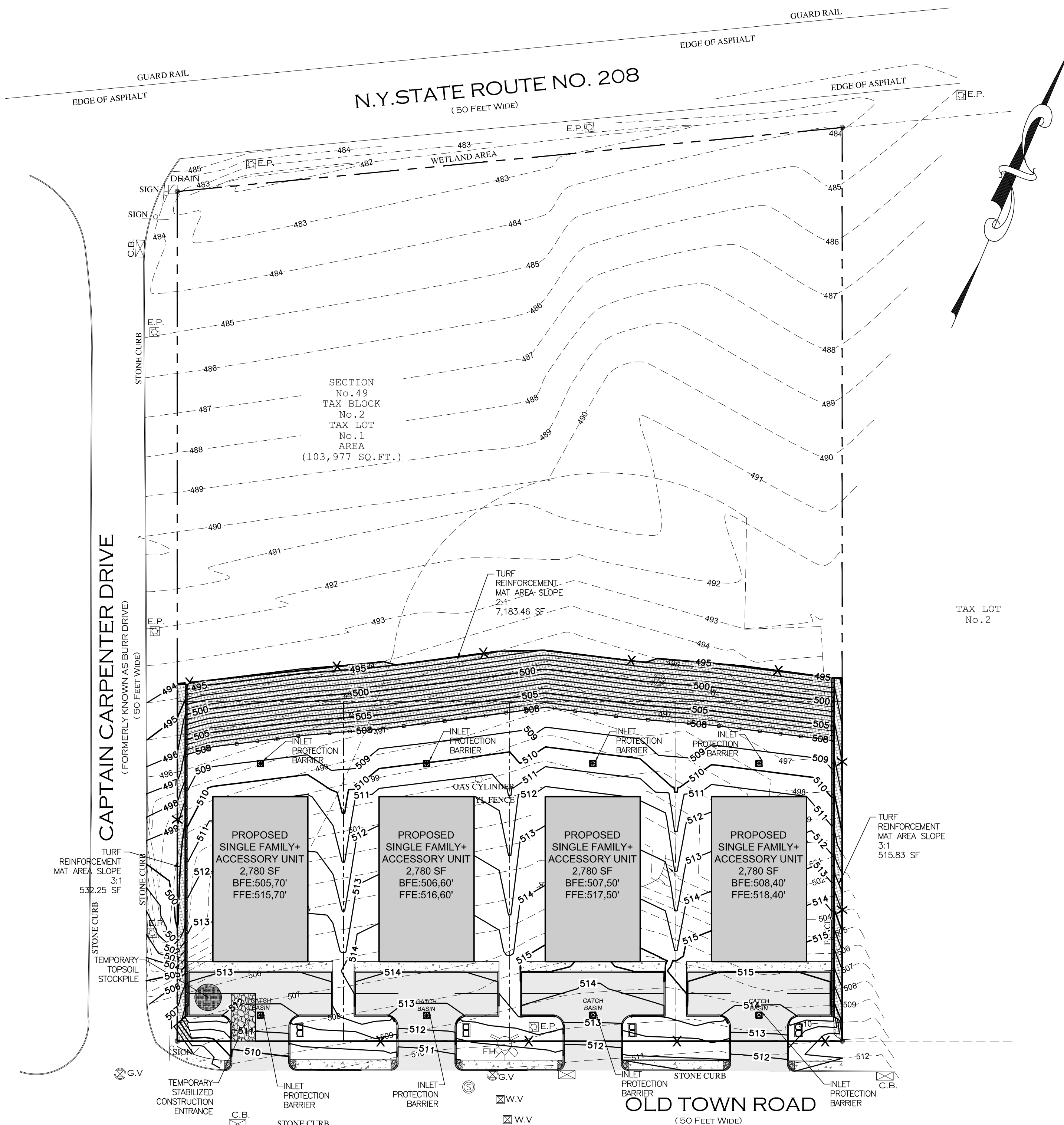
DRAINAGE PLAN

DESIGN BY: VB DRAWN BY: ER CHECKED BY: JM

7 OLD TOWN RD
7 OLD TOWN ROAD, VILLAGE OF SOUTH BLOOMING GROOVE
TOWN OF BLOOMING GROOVE, ORANGE COUNTY, NY 10950
SBL 49-2-1

DRAWING NUMBER: **04** OF **07** SCALE: 1"=30' FILE NO.: 24299 DATE: 01/24/2025





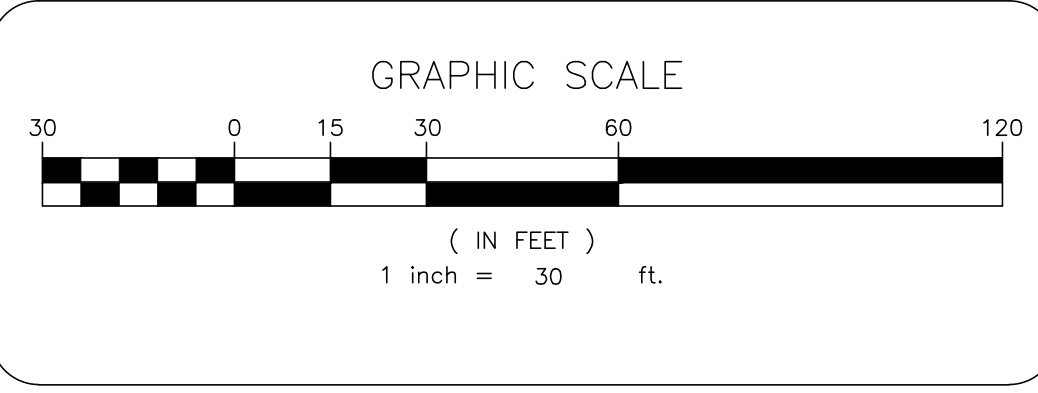
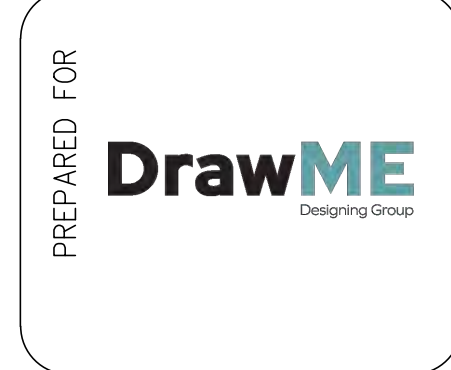
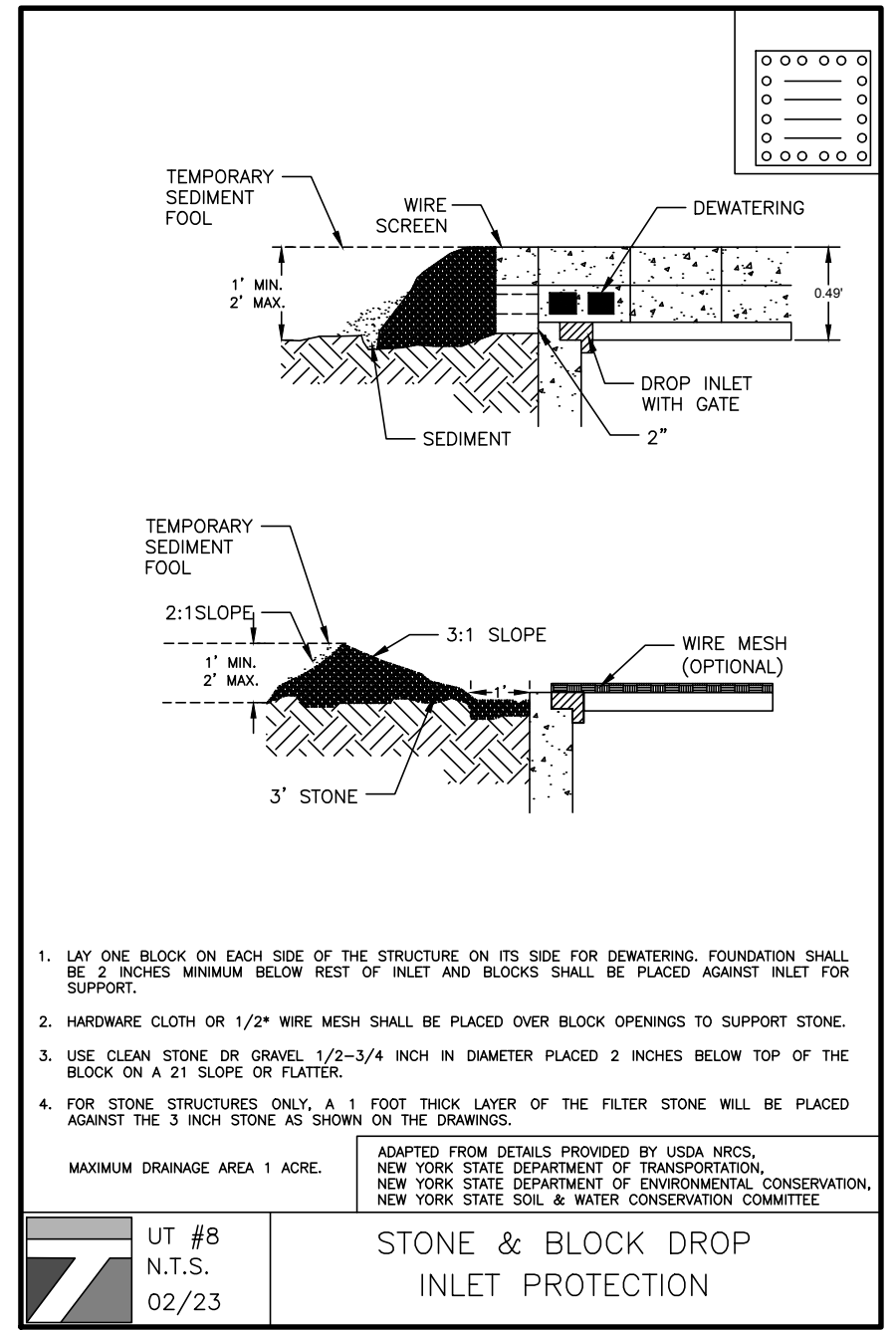
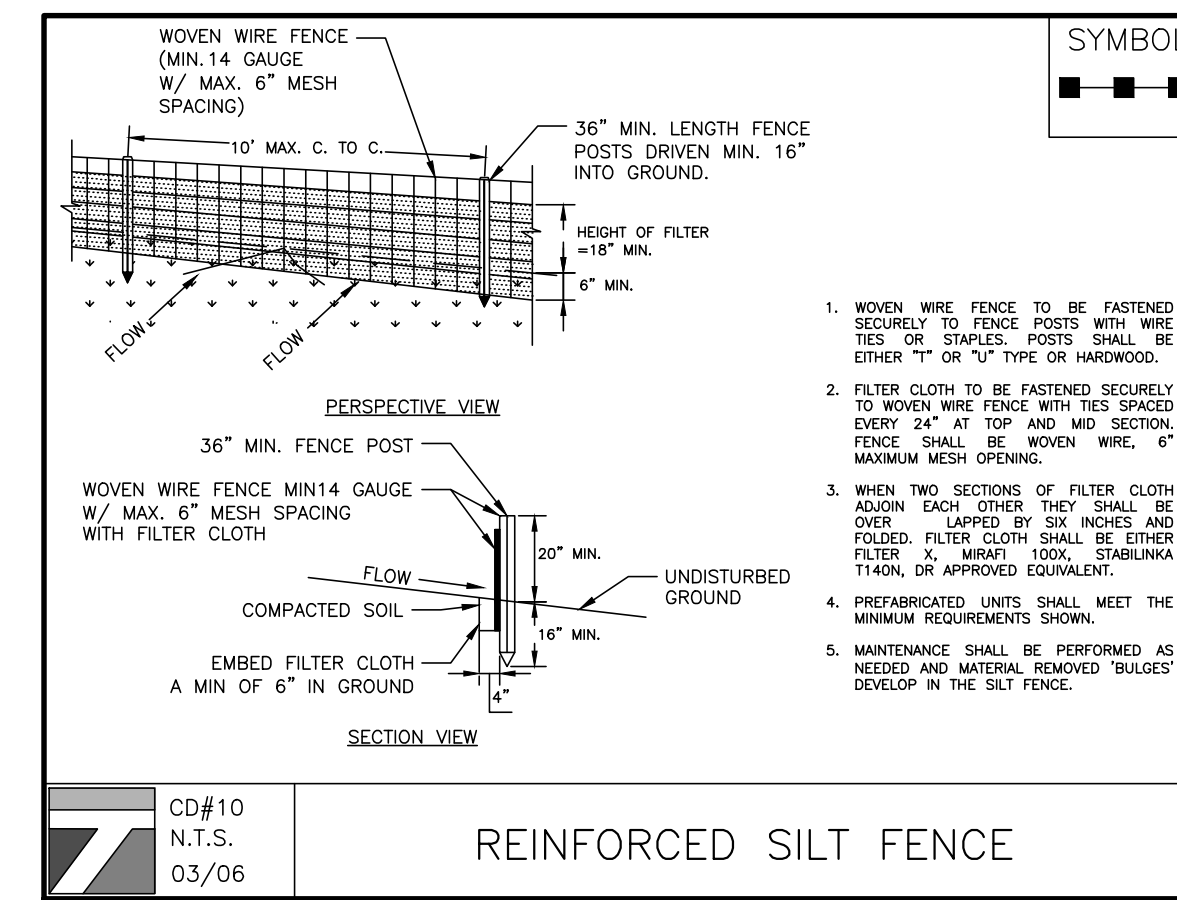
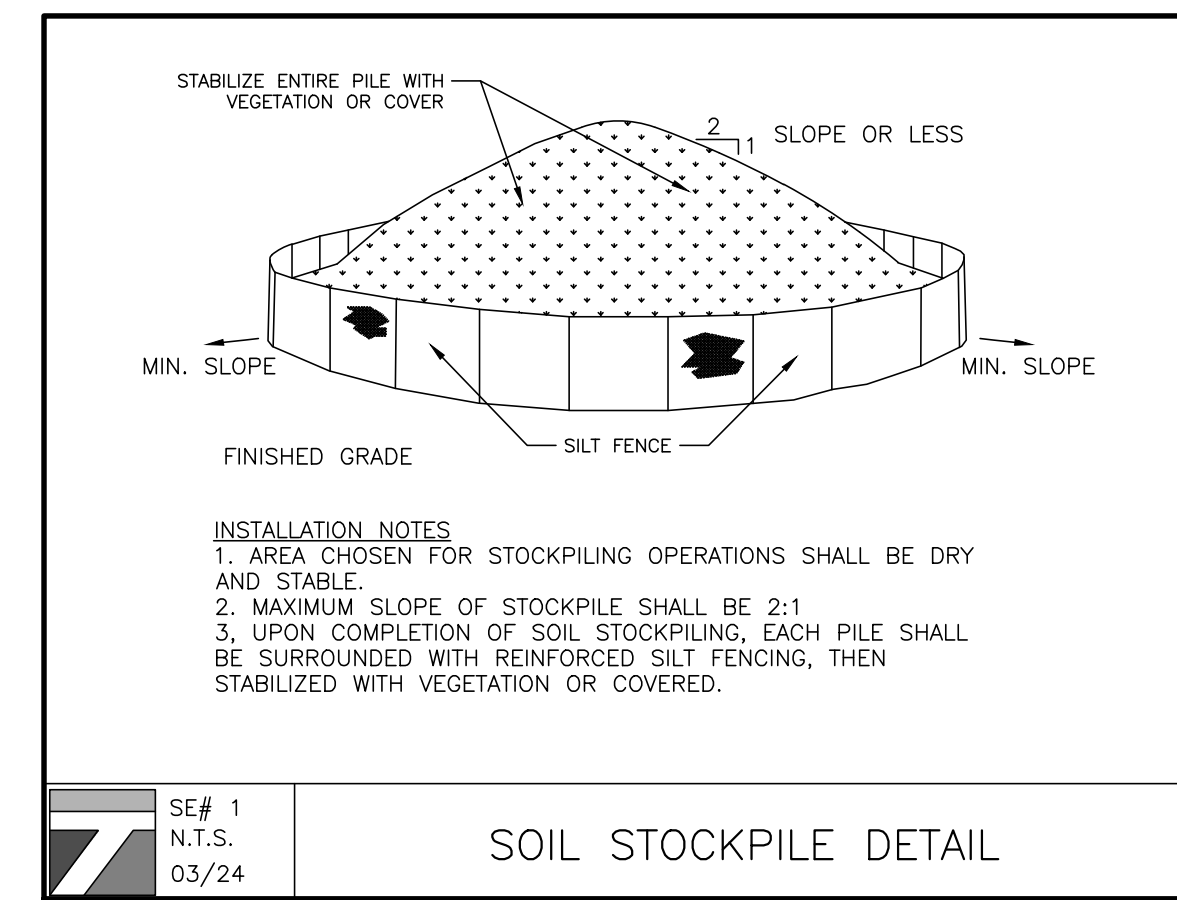
LEGEND:

- REINFORCED FILTER FABRIC BARRIER
- STABILIZED CONSTRUCTION EXIT
- INLET PROTECTION BARRIER

NOTES:
1. AREA OF DISTURBANCE: 44,387.18 SF.

SEQUENCE OF CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATION SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND /OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEEPED BACK INTO THE EXCAVATED AREA.
3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCAVATED AREA.
4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
 - DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
 - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 - STRUCTURAL CONTROL MEASURES.
 - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND/ OR CULVERTS UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEPPER SHALL BE REPLACED BY CLOCK SODDING.



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NO.	REVISION	DATE	DR/CK

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LIC. 103757 DATE 01/24/2025

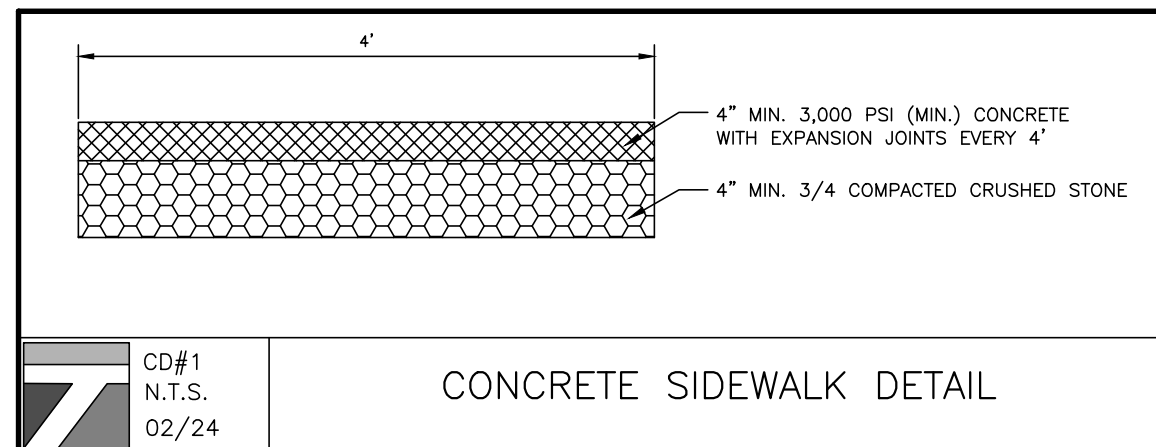
SOIL EROSION AND SEDIMENT CONTROL PLAN

DESIGN BY: VB DRAWN BY: ER CHECKED BY: JM

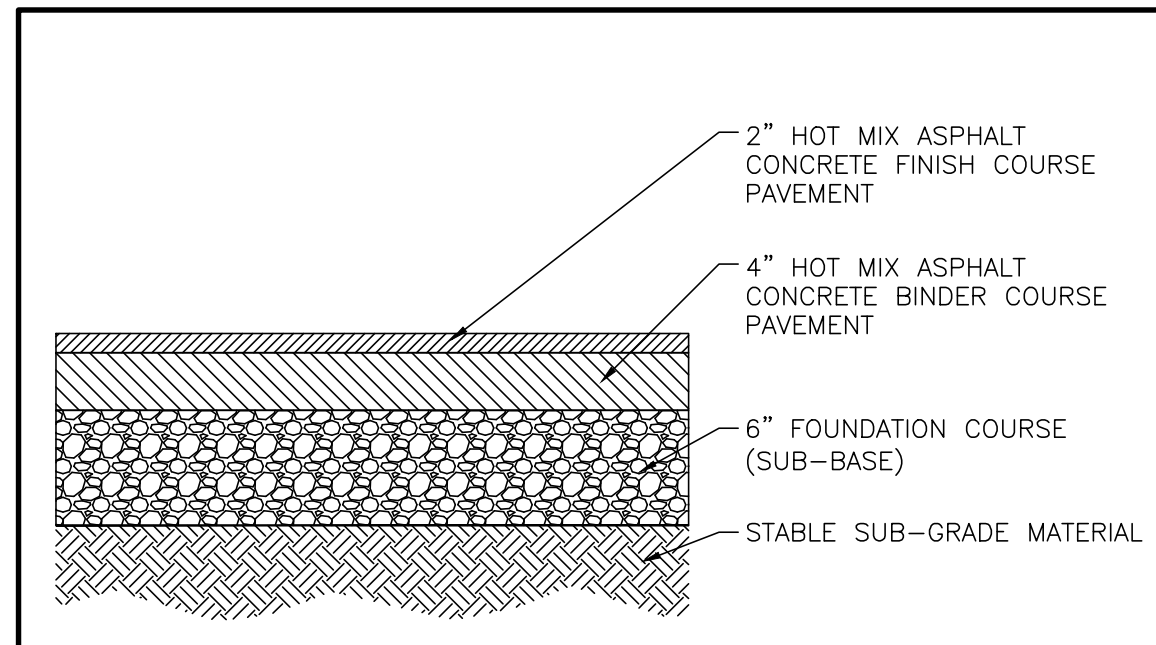
7 OLD TOWN RD
7 OLD TOWN ROAD, VILLAGE OF SOUTH BLOOMING GROOVE
TOWN OF BLOOMING GROVE, ORANGE COUNTY, NY 10950
SBL 49-2-1

DRAWING NUMBER: **06** OF **07** SCALE: 1"=30' FILE NO.: 24299 DATE: 01/24/2025

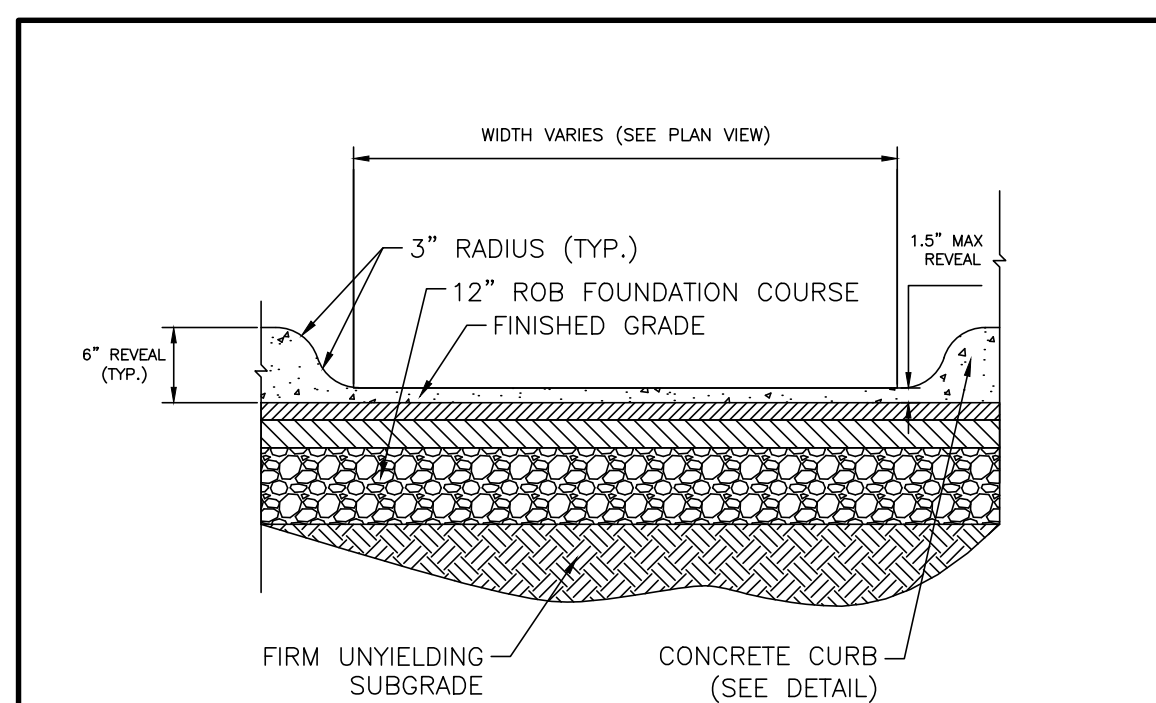




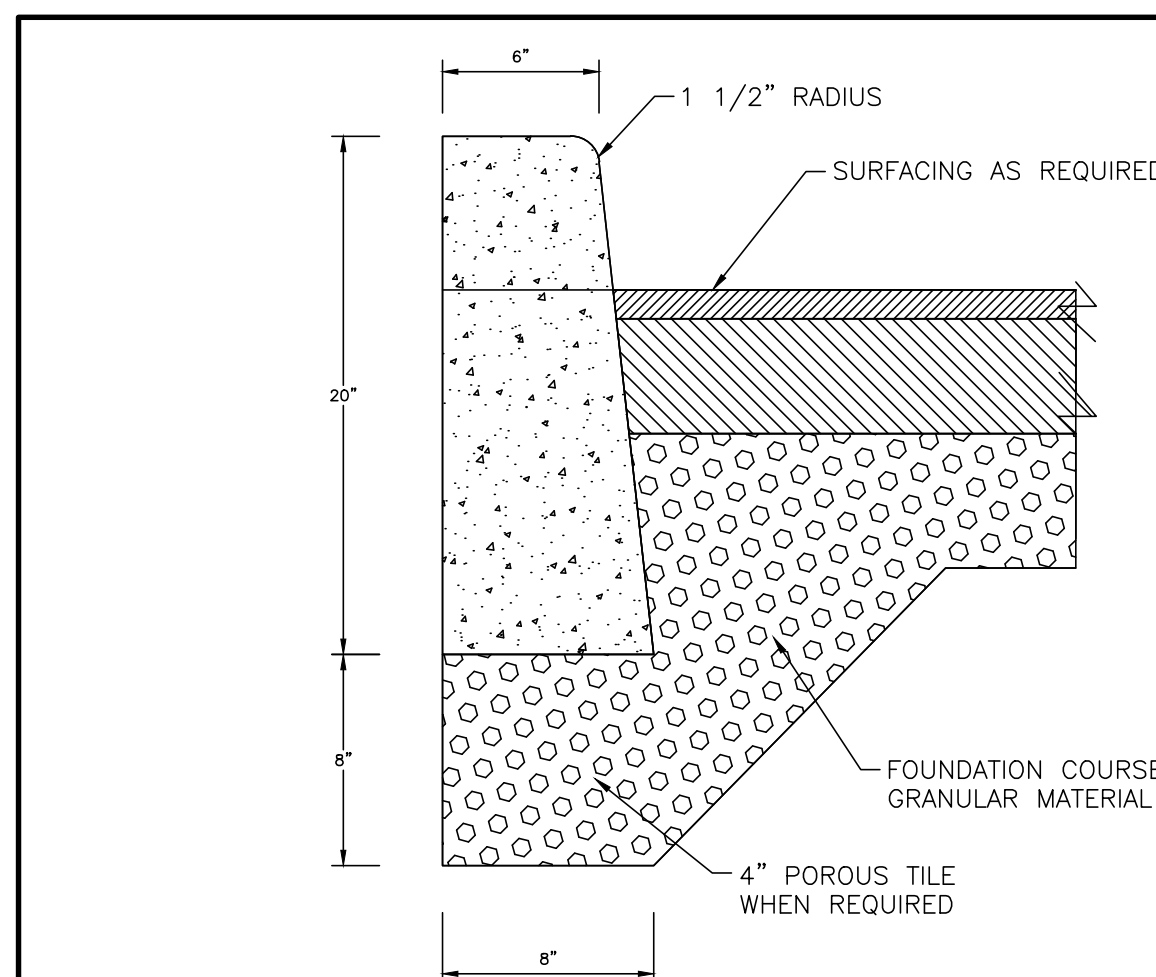
CD#1
N.T.S.
02/24
CONCRETE SIDEWALK DETAIL



CD#2
N.T.S.
02/24
ASPHALTIC CONCRETE PAVEMENT DETAIL

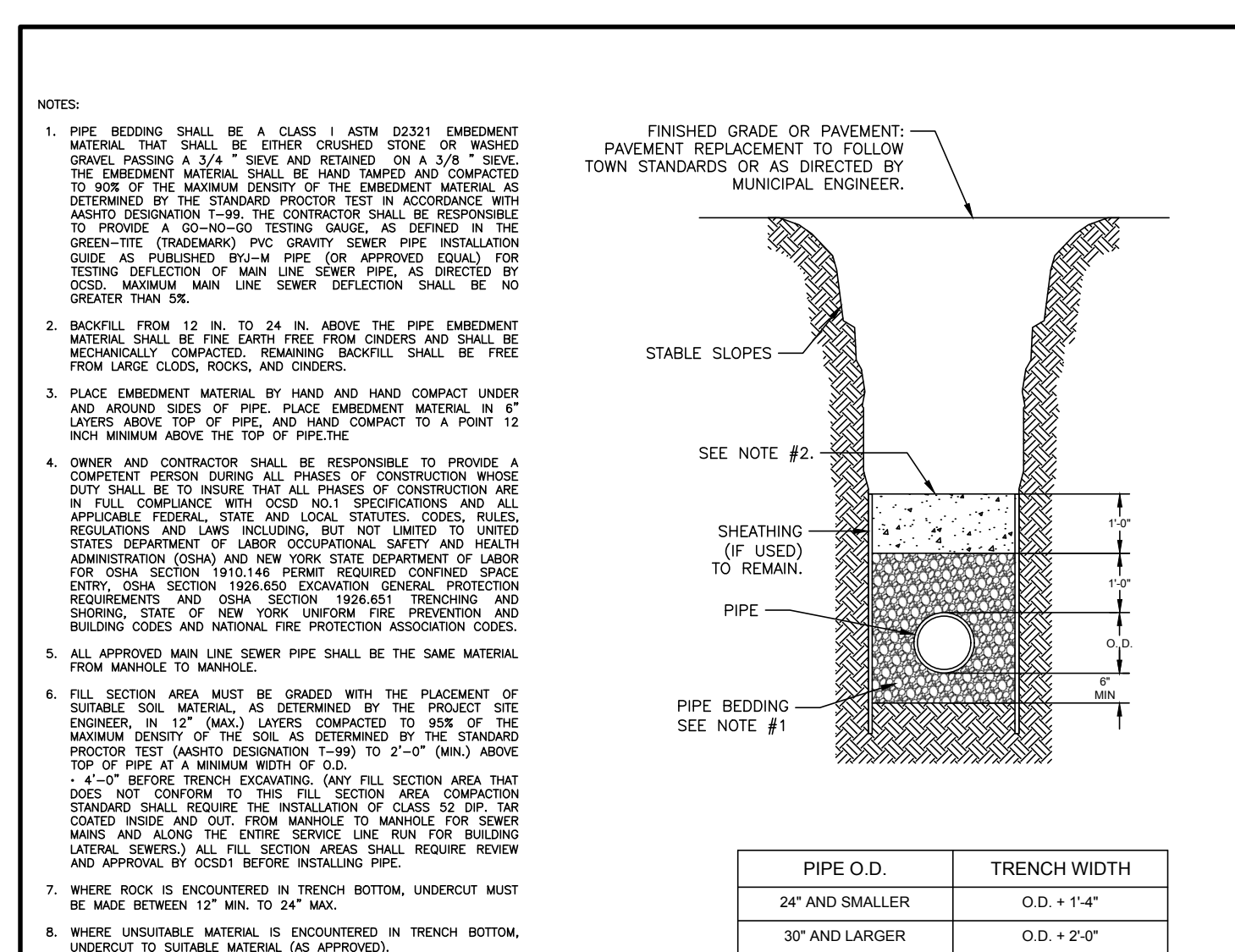


CD#3
N.T.S.
02/24
CURB CUT DETAIL



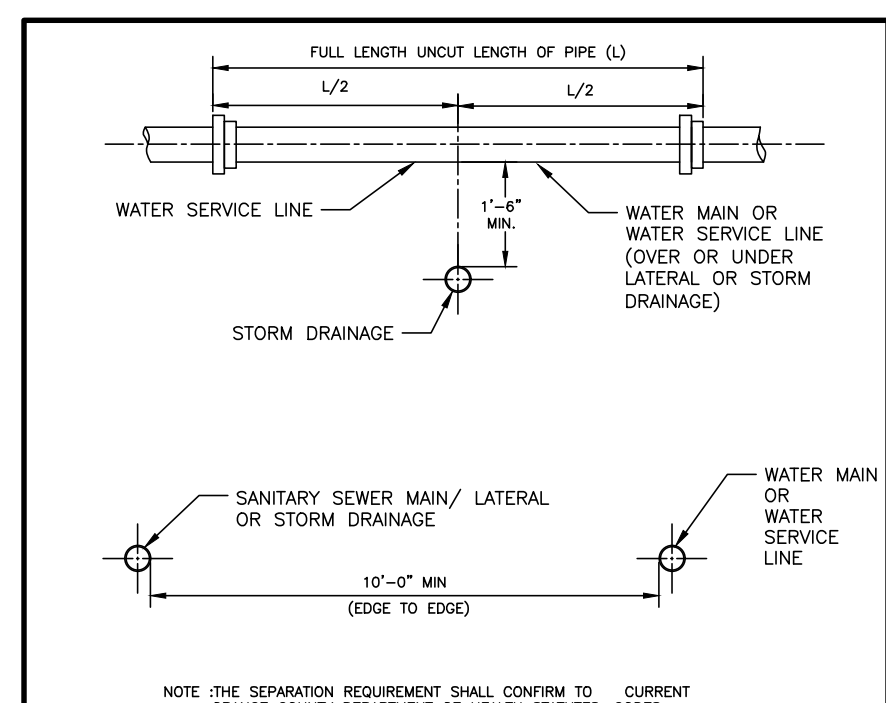
- NOTES:
- CURB SHALL BE CAST IN PLACE. EXPANSION JOINTS OF 3/16" CELLULOSE OR SIMILAR MATERIAL SHALL BE PLACED AT THEN (10) FOOT INTERVALS. CONCRETE TO BE 1:2:3 MIX DESIGN, AIR ENTRAINED WITH DUHEX OR EQUAL.
 - CONCRETE TO TEST 4000 PSI AT 28 DAYS

CD#4
N.T.S.
02/24
CONCRETE CURB DETAIL



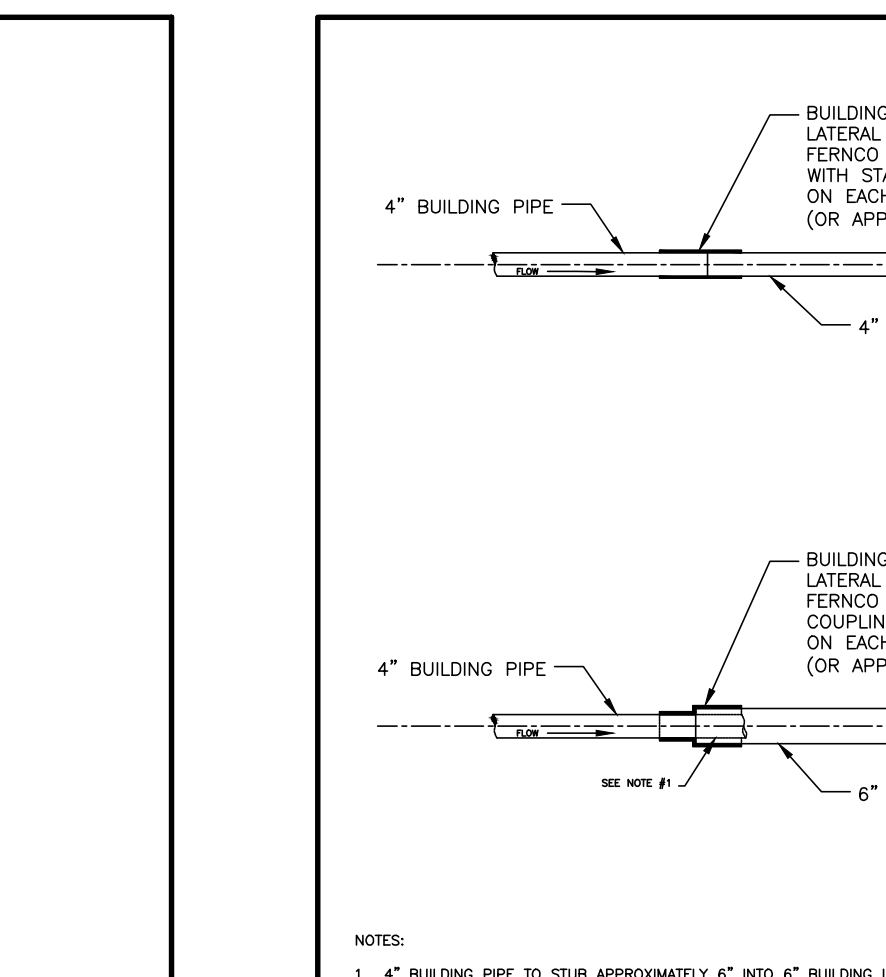
PIPE O.D.	TRENCH WIDTH
24" AND SMALLER	O.D. + 1'-4"
30" AND LARGER	O.D. + 2'-0"

UT #4
N.T.S.
02/23
TYPICAL TRENCH DETAIL (SANITARY SEWER)



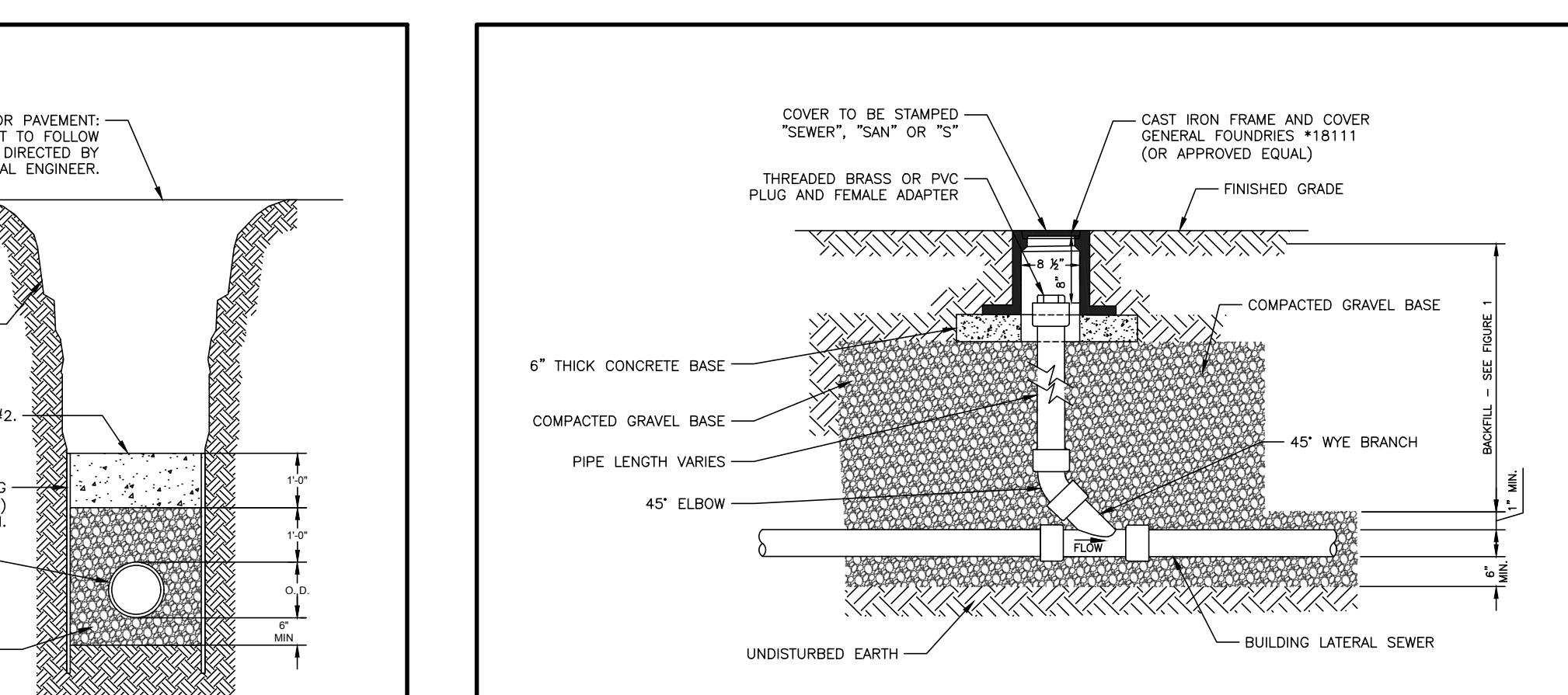
NOTE: THE SEPARATION REQUIREMENT SHALL CONFORM TO CURRENT ORANGE COUNTY DEPARTMENT OF HEALTH STATUTES, CODES, RULES, REGULATIONS AND LAWS AS THEY APPLY. ANY DEVIATION FROM THE ABOVE SEPARATION REQUIREMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE ORANGE COUNTY DEPARTMENT OF HEALTH.

UT #5
N.T.S.
02/23
SANITARY SEWER/WATER/STORM DRAINAGE SEPARATION REQUIREMENTS



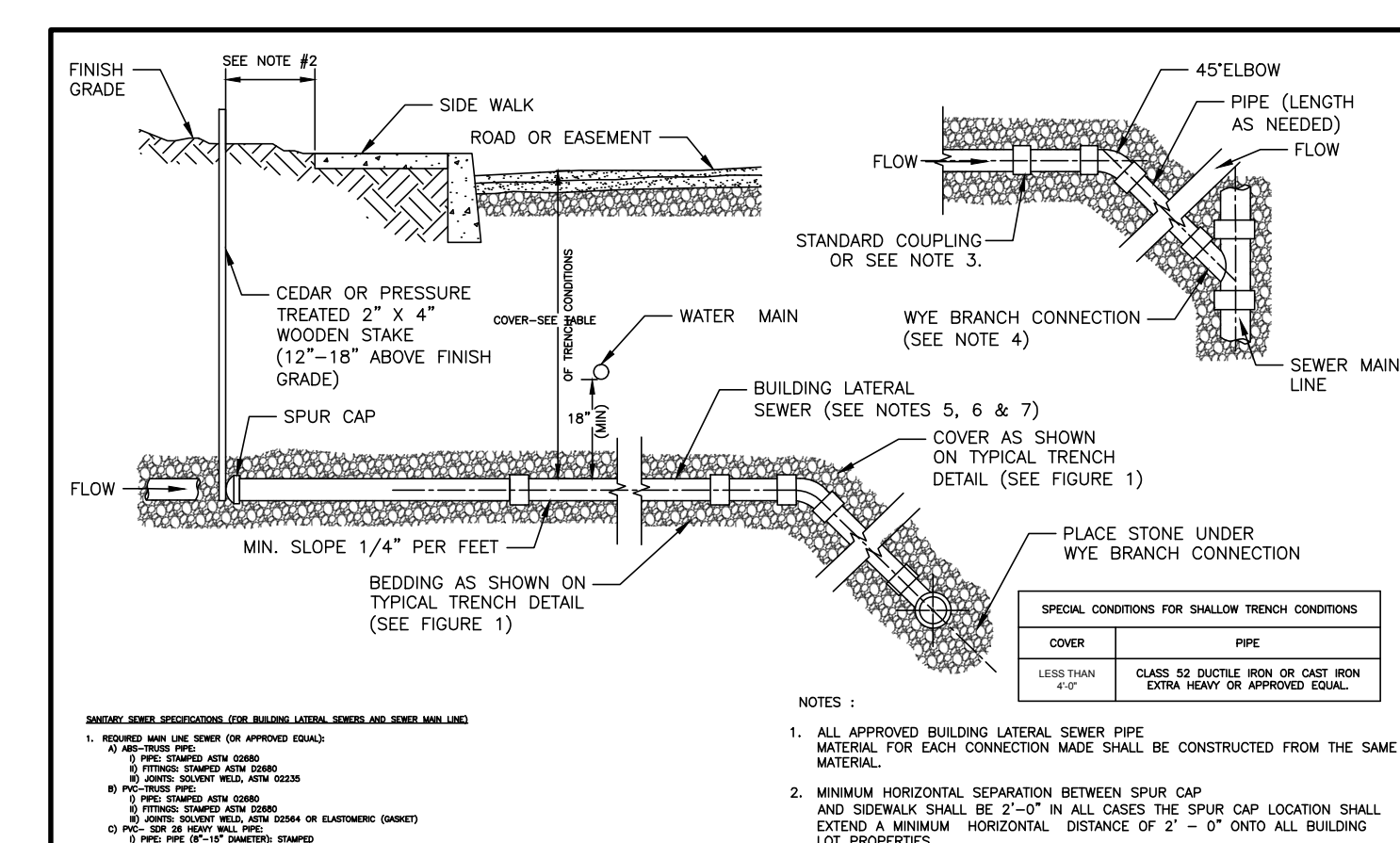
- NOTES:
- 4" BUILDING PIPE TO STUB APPROXIMATELY 6" INTO 6" BUILDING LATERAL SEWER.
 - EACH 4" BUILDING LATERAL SEWER MAY BE APPROVED FOR CONSTRUCTION OF SINGLE (1) AND TWO (2) FAMILY DWELLINGS ONLY.
 - EACH 6" BUILDING LATERAL SEWER SHALL BE REQUIRED FOR ALL COMMERCIAL USES AND SERVE NO MORE THAN TWELVE (12) EQUIVALENT LIVING UNITS, AS DETERMINED BY OCSO, UNLESS A REQUESTED DEVIATION IS APPROVED IN WRITING BY OCSO NO. 1.
 - BUILDING PIPE SHALL NOT EXCEED MORE THAN 10' FROM EXTERIOR OF BUILDING FOUNDATION.
 - 6" BUILDING PIPE TO 6" BUILDING LATERAL SEWER SHALL BE MADE BY INSTALLING A TYPE 1, STYLE 62 DRESSER COUPLING OR DRESSER STYLE 262 HYMAX COUPLING (OR APPROVED EQUAL).

UT #6
N.T.S.
02/23
BUILDING PIPE TO BUILDING LATERAL SEWER CONNECTION



- NOTES:
- EACH BUILDING LATERAL SEWER SHALL HAVE A CLEANOUT INSTALLED APPROXIMATELY 2' DOWNSTREAM OF THE BUILDING PIPE TO BUILDING LATERAL SEWER CONNECTION. THEREAFTER, CLEANOUTS SHALL BE INSTALLED ALONG THE BUILDING LATERAL SEWER APPROXIMATELY EVERY 100' (MAXIMUM) FOR THE PURPOSE OF CLEANOUT LOCATIONS, DISTANCE SHALL BE MEASURED FROM THE FIRST CLEANOUT LOCATED DOWNSTREAM OF THE BUILDING PIPE TO BUILDING LATERAL SEWER CONNECTION. HENCE DOWNSTREAM ALONG THE BUILDING LATERAL SEWER TO THE CENTER OF THE SEWER MAIN LINE (GENERALLY LOCATED IN THE CENTER OF THE STREET).
 - A CLEANOUT LOCATED IN A ROAD, DRIVEWAY OR PARKING AREA SHALL REQUIRE A CAMELL FOUNDRY #1164 CAST IRON FRAME AND COVER (OR APPROVED EQUAL).

UT #1
N.T.S.
02/24
BUILDING LATERAL SEWER CLEANOUT (C.O.)



- NOTES:
- ALL APPROVED BUILDING LATERAL SEWER PIPE MATERIAL FOR EACH CONNECTION MADE SHALL BE CONSTRUCTED FROM THE SAME MATERIAL.
 - MINIMUM HORIZONTAL SEPARATION BETWEEN SPUR CAP AND SEWER SHALL BE 2'-0" IN ALL CASES THE SPUR CAP LOCATION SHALL EXTEND A MINIMUM HORIZONTAL DISTANCE OF 2' - 0" ONTO ALL BUILDING LOT PROPERTIES.
 - TRANSITION BETWEEN DIFFERENT PIPE MATERIAL (AS APPROVED) SHALL BE MADE BY INSTALLING A TYPE 1, STYLE 62 DRESSER COUPLING OR DRESSER STYLE 62 HYMAX COUPLING (OR APPROVED EQUAL).
 - WYE BRANCH CONNECTION SHALL BE A FITTING CONSTRUCTED SPECIFICALLY FOR THE INSTALLED MAIN LINE SEWER MATERIAL CLASS (OR APPROVED EQUAL.)
 - THE BUILDING LATERAL SEWER SHOWN FROM THE MAIN LINE SOURCE WYE BRANCH CONNECTION FITTING TO THE SPUR CAP SHALL MEET THE SPECIFICATIONS SHOWN FOR 2) BUILDING LATERAL SEWER
 - 4" BUILDING LATERAL SEWER MAY BE APPROVED FOR CONSTRUCTION OF SINGLE (1) AND TWO (2) FAMILY DWELLINGS ONLY. ALL OTHER BUILDING LATERAL SEWERS (INCLUDING ALL COMMERCIAL USES) SHALL BE 6" IN DIAMETER
 - EACH 6" BUILDING LATERAL SEWER SHALL PROVIDE SERVICE FOR NO MORE THAN TWELVE EQUIVALENT LIVING UNITS AS DETERMINED BY OCSO NO. 1 UNLESS A REQUESTED DEVIATION IS APPROVED IN WRITING BY OCSO NO.1

UT #7
N.T.S.
02/23
SANITARY SEWER CONSTRUCTION MATERIALS

Enka·solutions

Enkamat® 7010

Turf Reinforcement Mat

Description

Enkamat 7010 is a 3-dimensional turf reinforcement mat (TRM) made of continuous monofilament fused at their intersections. 95% percent of the Enkamat is open and available for soil, mulch and root interlock, creating the most effective root reinforcement mat (RZM) available. Enkamat is manufactured from nylon to

eliminate the buoyancy factor associated with submerged conditions. It provides permanent TRM protection in vegetated channels, as well as on slopes.

Recommended Applications

- Permanent erosion control for vegetated channels with expected shear stresses **≤ 8 psf**
- Permanent erosion control for moderate to steep slopes **≤ 18:1V**
- Support and enhance performance of ecosystem plants
- Substrate for hydraulically applied Flexible Growth Medium (FGM) or Bonded Fiber Matrix (BFM)
- Meets requirements of **FHWA FP03 Type 5B TRM**
- Material **Specific Gravity of > 1.14** prevents buoyancy—the No Float TRM.

Technical Data

Mechanical Properties	Test Method	Units	MARV Roll Value
Tensile Strength	ASTM D 6818	kN/m (lbf/ft)	1.8 (125)
Thickness	ASTM D 6525	mm (in)	6.25 (0.25)
Mass/Unit Area	ASTM D 6566	g/m ² (oz/yd ²)	150 (4.5)
Resiliency	ASTM D 6524	%	> 80
UV Stability	ASTM D 4355	% strength retained	80 @ 2000 hr

Performance Properties	Test Method	Units	Typical Roll Value
Permissible Velocity	60 minute, vegetated	m/s (ft/s)	5.8 (19)
	50 hour, vegetated	m/s (ft/s)	4.2 (17)
Permissible Shear Stress	60 minute, vegetated	kN/m (lbf/ft)	0.38 (8.0)
	50 hour, vegetated	kN/m (lbf/ft)	0.29 (6.0)
Manning's "n" Range	Fume test		0.022–0.042

Packaging

Property	Units	Nominal Value
Roll Dimensions [w x l]	m (ft)	2.4 x 51.4 (8.0 x 169)
Roll Area	m ² (yd ²)	125.4 (150)
Estimated Roll Diameter	m (in)	0.61-0.71 (24-28)
Estimated Roll Weight	kg (lb)	34 (75)
Color		Black

To the best of our knowledge, this information contained herein is accurate. However, Low & Bonar Inc. cannot assume any liability whatsoever for the accuracy or completeness thereof. First determination of the suitability of any information or material for the use contemplated of its licensee of use and whether the suggested use infringes any patents is the sole responsibility of the user. These products may be covered by patents or patents pending.

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www.enkasolutions.com / info-usa@lowandbonar.com

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NO.	REVISION	DATE	DR/CK

JOSIP MEDIC, PE

LIC. 103757 DATE 01/24/2025

DETAIL SHEET

DESIGN BY:	DRAWN BY:	CHECKED BY:
VB	ER	JM

7 OLD TOWN RD

7 OLD TOWN ROAD, VILLAGE OF SOUTH BLOOMING GROOVE
TOWN OF BLOOMING GROOVE, ORANGE COUNTY, NY 10950
SBL 49-2-1

DRAWING NUMBER:	SCALE:	FILE NO.:	DATE:
07 OF 07	NTS	24299	01/24/2025

