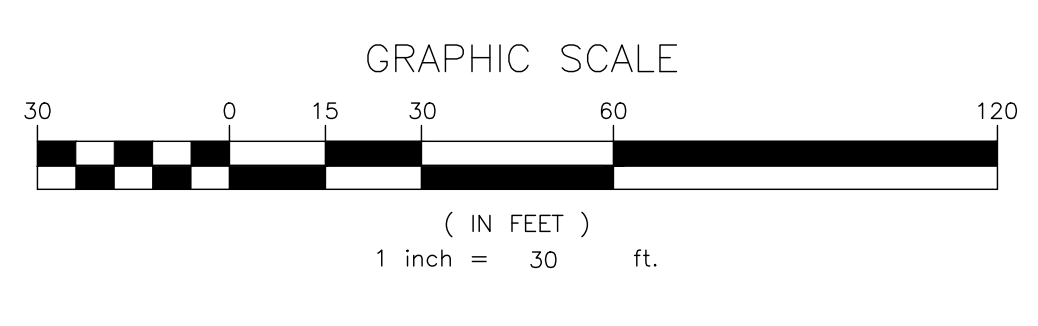


PREPARED FOR
DrawME
Designing Group

Call 811
before you dig



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ENGINEERING CONSULTANTS

TERRANOVA ENGINEERING CONSULTANTS DPC NEW YORK LICENSE No. 0022576
71 LAFAYETTE AVE. SUFFERN, NY 10901 SUITE #104 INFO@TERRANOVAC.COM P:(845) 666-0155

NO.	REVISION	DATE	DR/CK
1	PARKING LAYOUT	03/18/2025	ER/YB

JOSIP MEDIC, PE

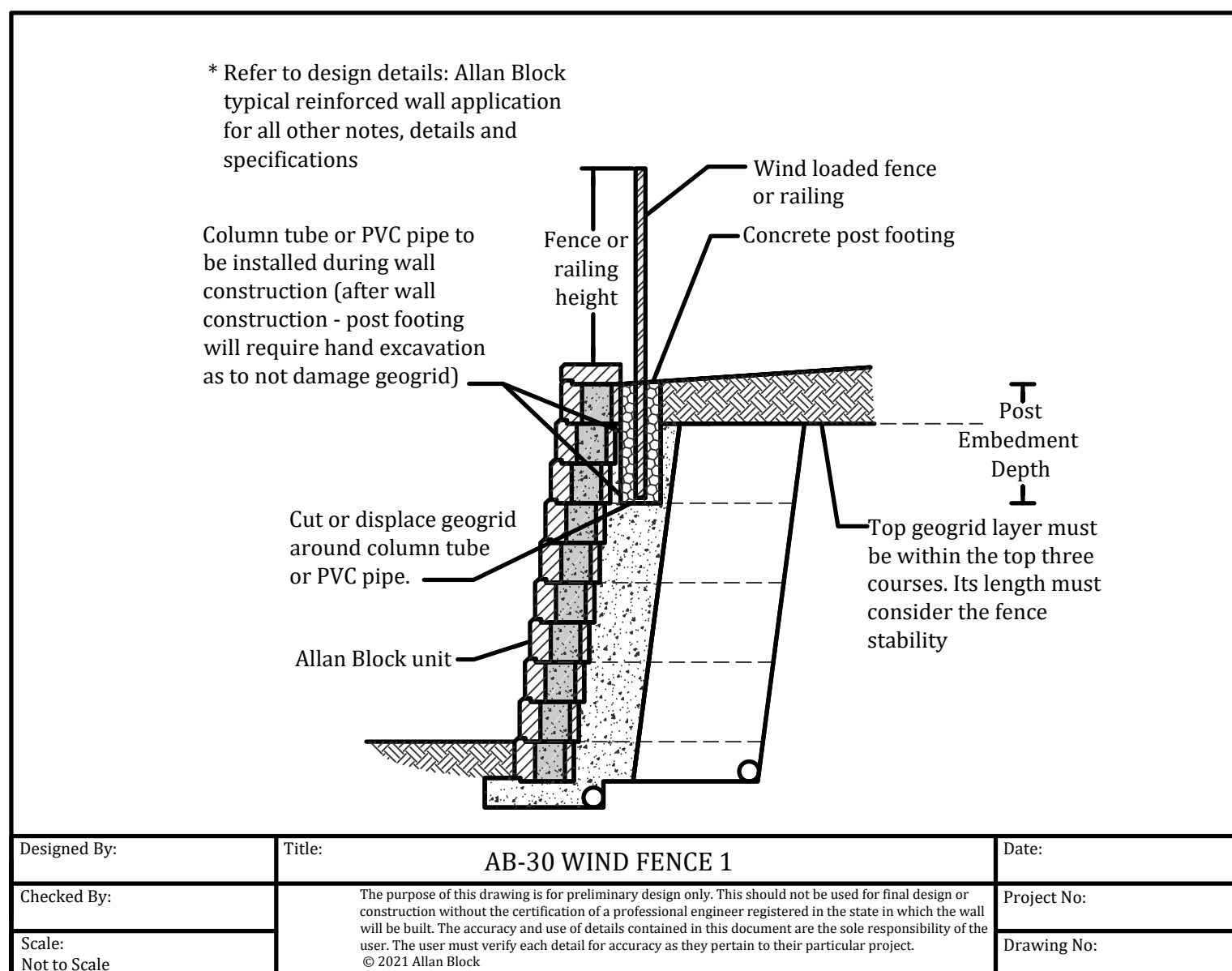
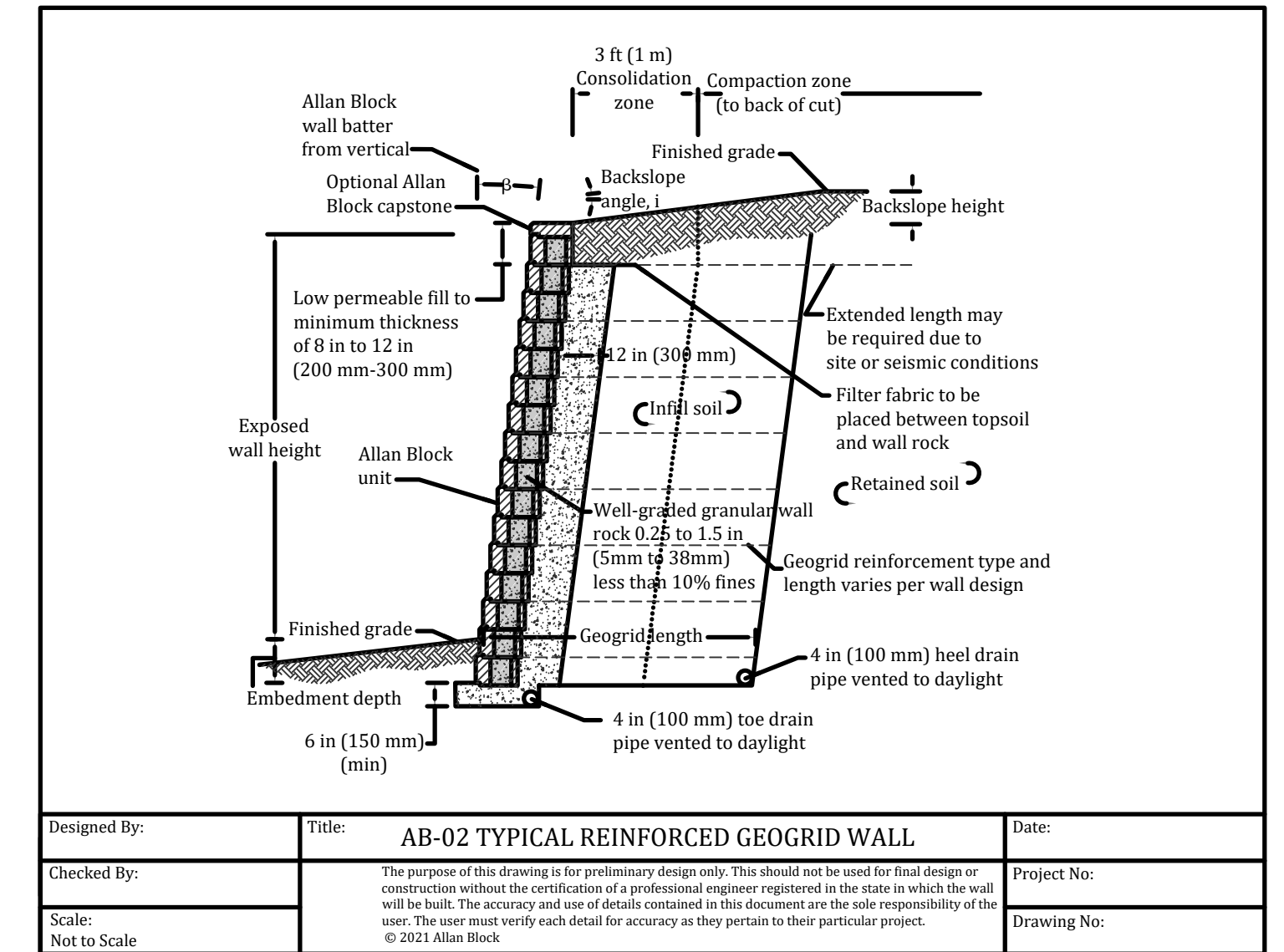
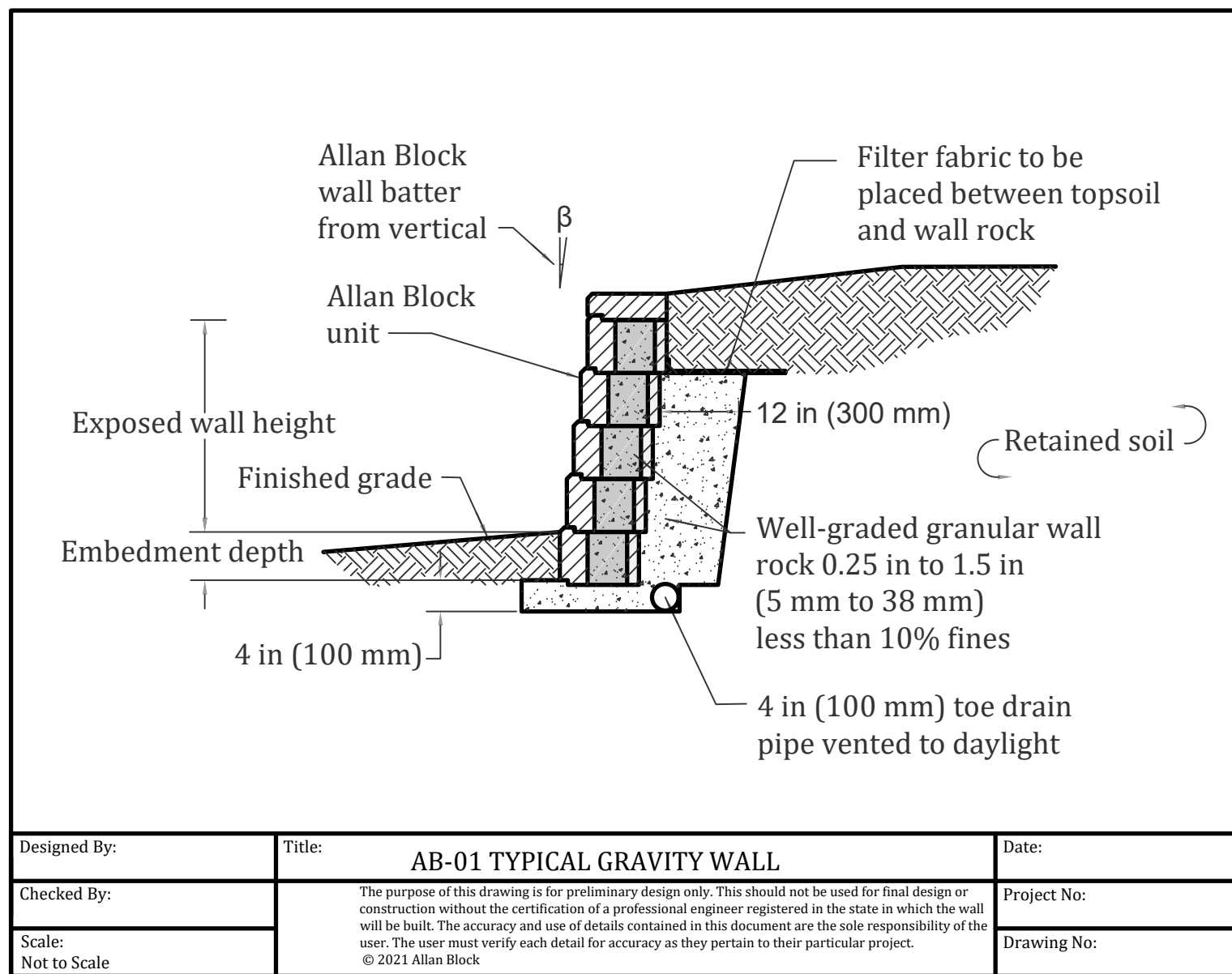
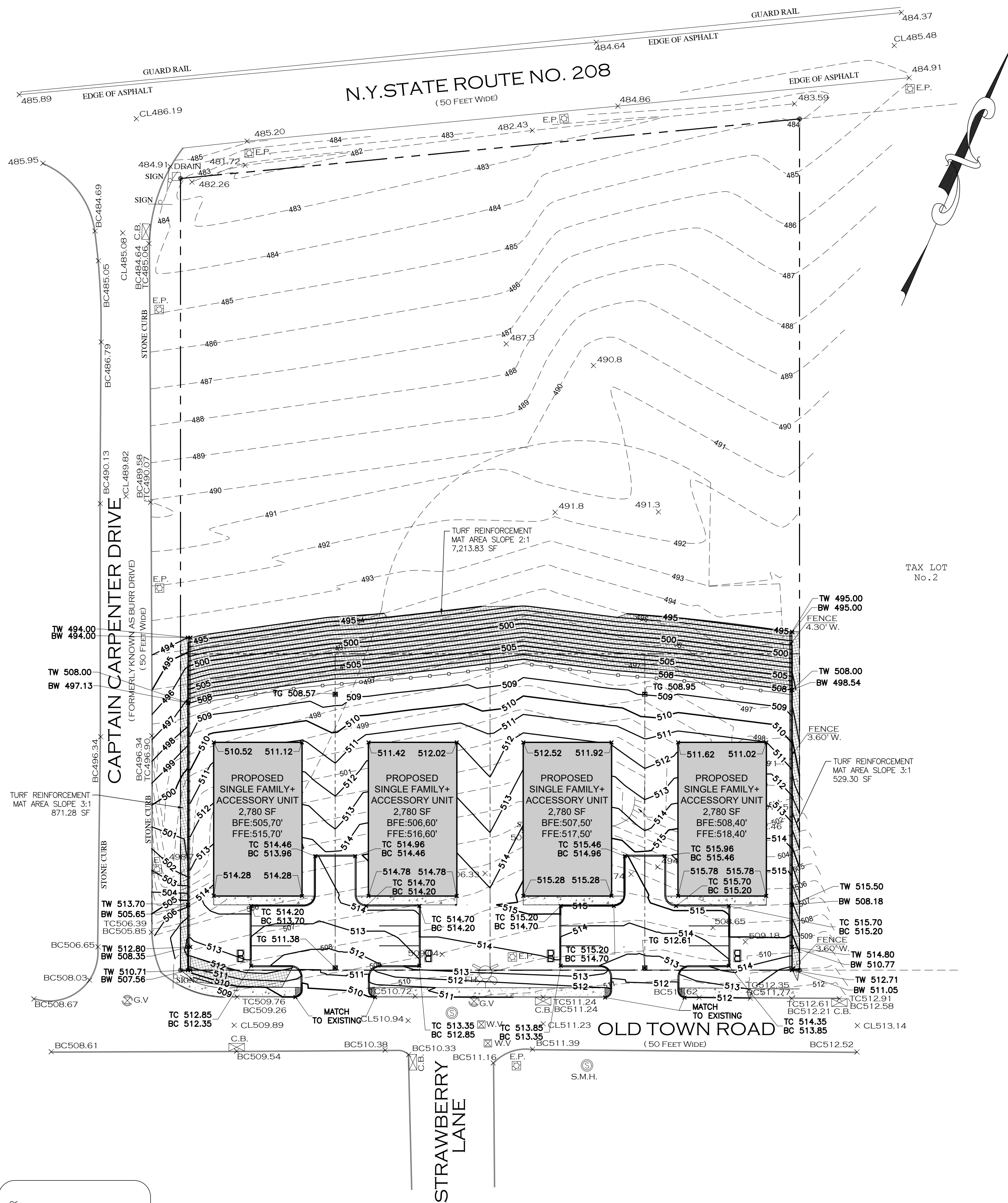
LIC. 103757 DATE 03/19/2025

DEMOLITION PLAN

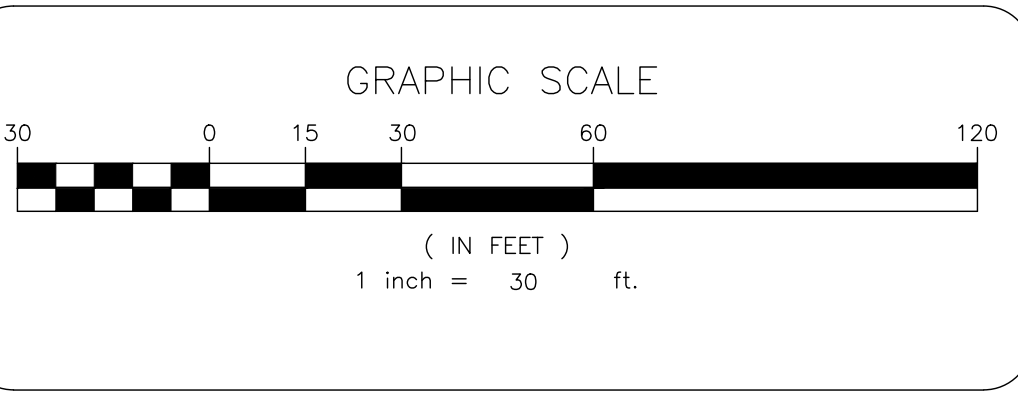
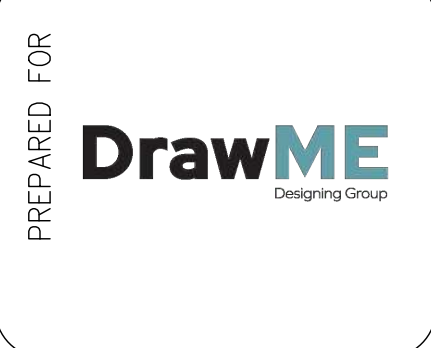
DESIGN BY: YB	DRAWN BY: ER	CHECKED BY: JM
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7 OLD TOWN RD
7 OLD TOWN ROAD, VILLAGE OF SOUTH BLOOMING GROOVE
TOWN OF BLOOMING GROVE, ORANGE COUNTY, NY 10950
SBL 49-2-1

DRAWING NUMBER: 02 OF 07	SCALE: 1"=30'	FILE NO.: 24299	DATE: 01/24/2025
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- 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
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JOSIP MEDIC, PE

LIC. 103757 DATE 03/19/2025

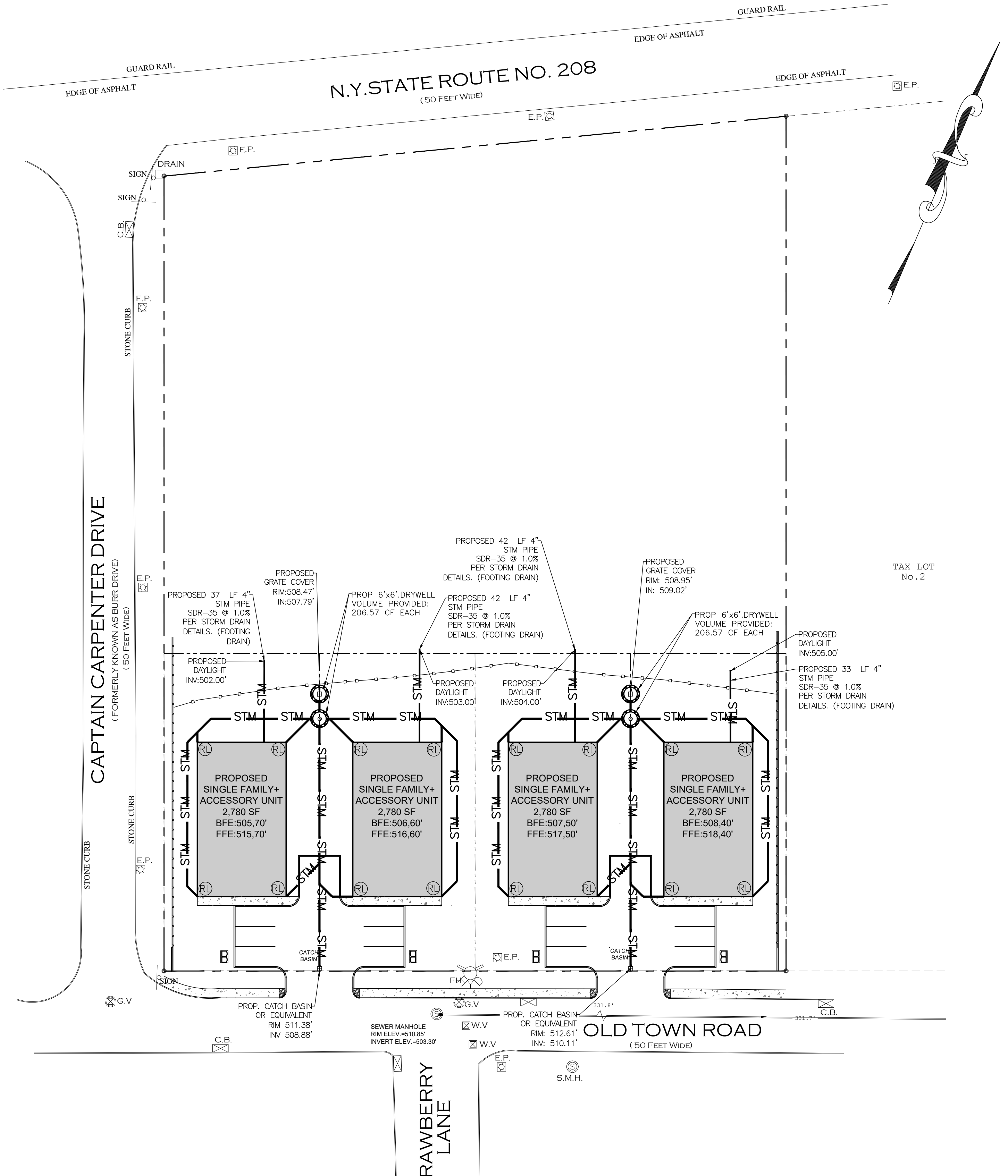
GRADING PLAN

DESIGN BY: YB	DRAWN BY: ER	CHECKED BY: JM
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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: 03 OF 07	SCALE: 1"=30'	FILE NO.: 24299	DATE: 01/24/2025
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- LEGEND:**
- PROPOSED 6" PVC ROOF LEADER PER STORM DRAIN DETAILS.
 - PROPOSED 24"x24"x24" KNOCKOUT CATCH BASIN PER STORM DRAIN DETAILS
 - PROPOSED CLEANOUT OR DRAIN
 - PROPOSED 6" STM PIPE SDR-35 @ MIN 1.0% PER STORM DRAIN DETAILS, UNLESS NOTED OTHERWISE

RUNOFF CALCULATIONS FOR EACH LOT:

4,412.74 SF (PROPOSED COVERAGE)

0.50 INCH/ 2 HOUR STORM

4,412.74 SF X 0.50 IN X 1 FT/12 INCHES

= 183.86 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

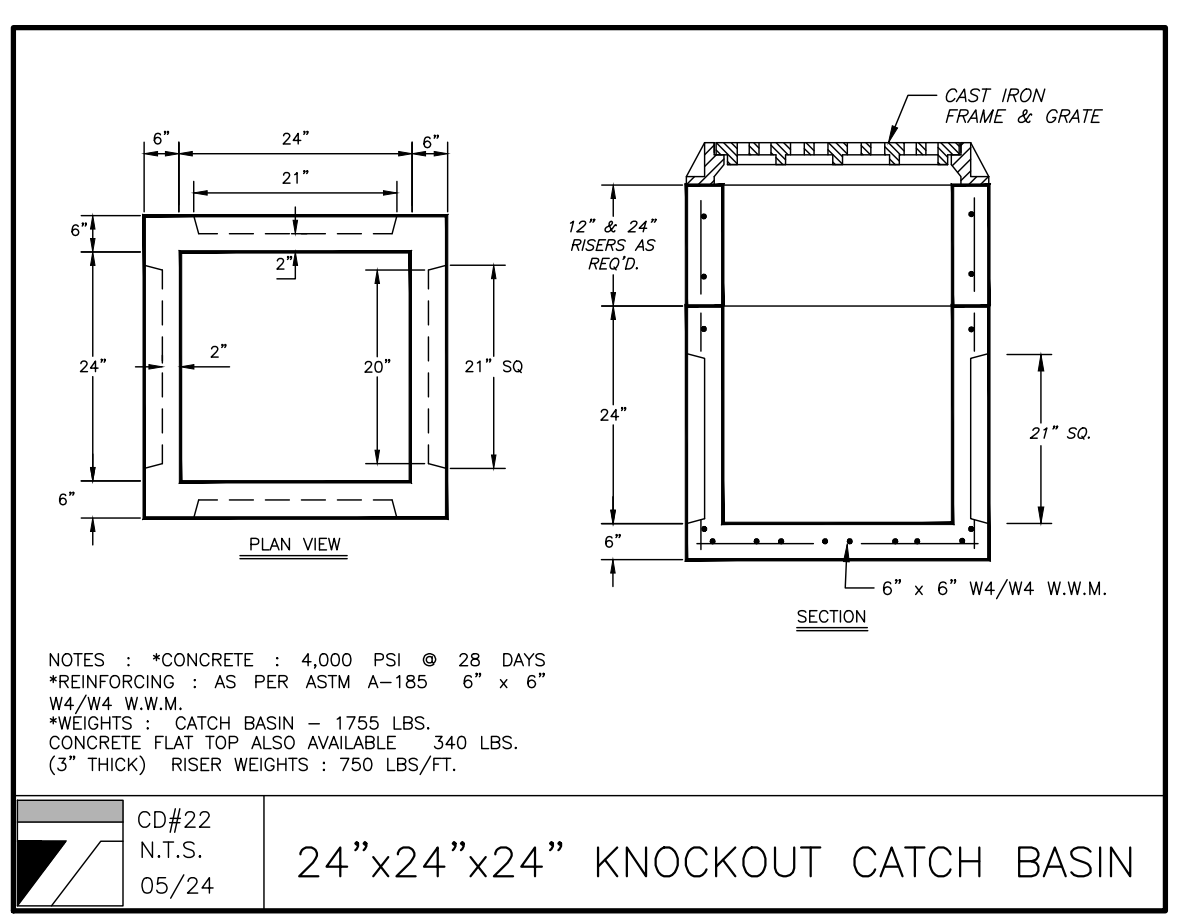
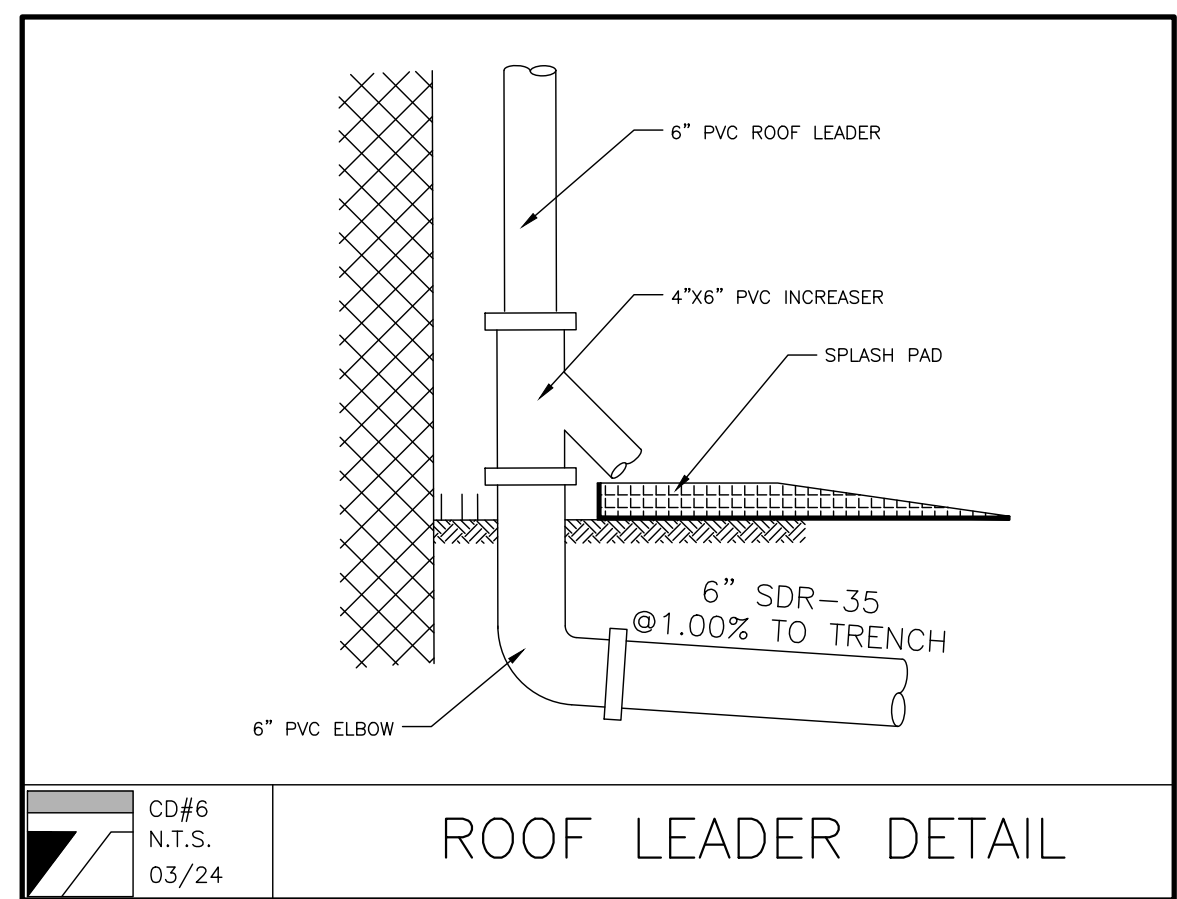
STONE VOID = 40%

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 > 183.86 CF



NOTES: *CONCRETE : 4,000 PSI @ 28 DAYS
 *REINFORCING : AS PER ASTM A-185 6" x 6" W4/W4 W.W.M.
 *WEIGHTS : CATCH BASIN = 1750 LBS.
 CONCRETE FLAT TOP ALSO AVAILABLE 340 LBS.
 (3" THICK) RISER WEIGHTS : 750 LBS./FT.

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

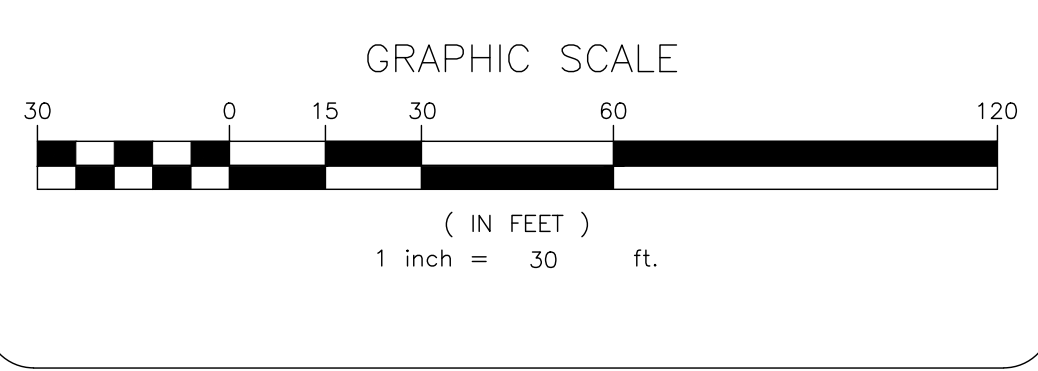
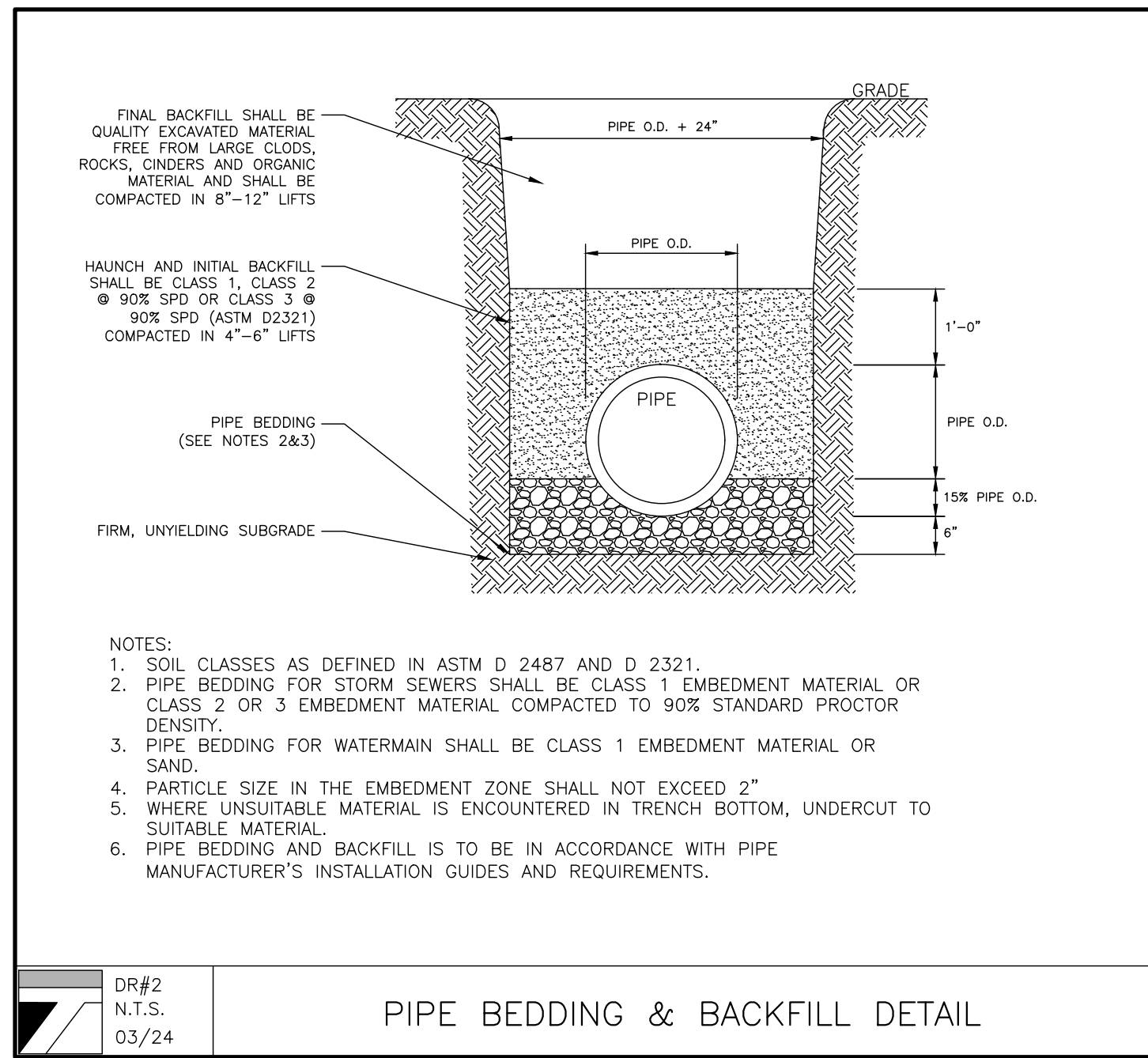
DRY WELL CYLINDRICAL 1000 GALLON STACKABLE

NOTES:

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

ITEM NO.	STANDARD	WEIGHT
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 Havemill Road-Amesbury, MA | 160 Old Turnpike Rd-Nottingham, NH
 Specifications subject to change without notice



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NO.	REVISION	DATE	DR/CK
1	PARKING LAYOUT	03/18/2025	ER/YB

JOSIP MEDIC, PE

STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 LICENSE NO. 103757

LIC. 103757 DATE 03/19/2025

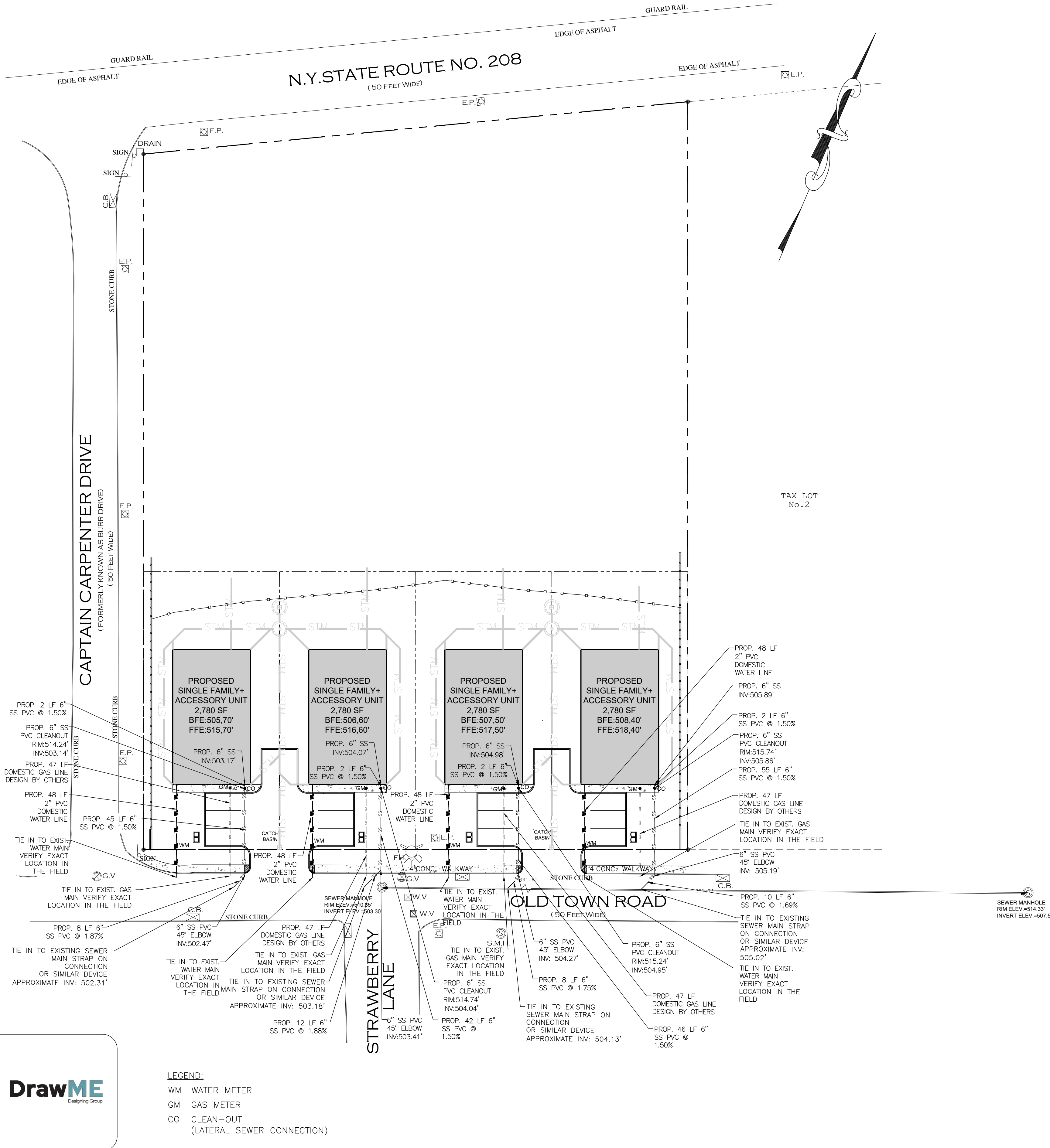
DRAINAGE PLAN

DESIGN BY: YB
 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





2.25 SEWERS NEAR WATER MAINS

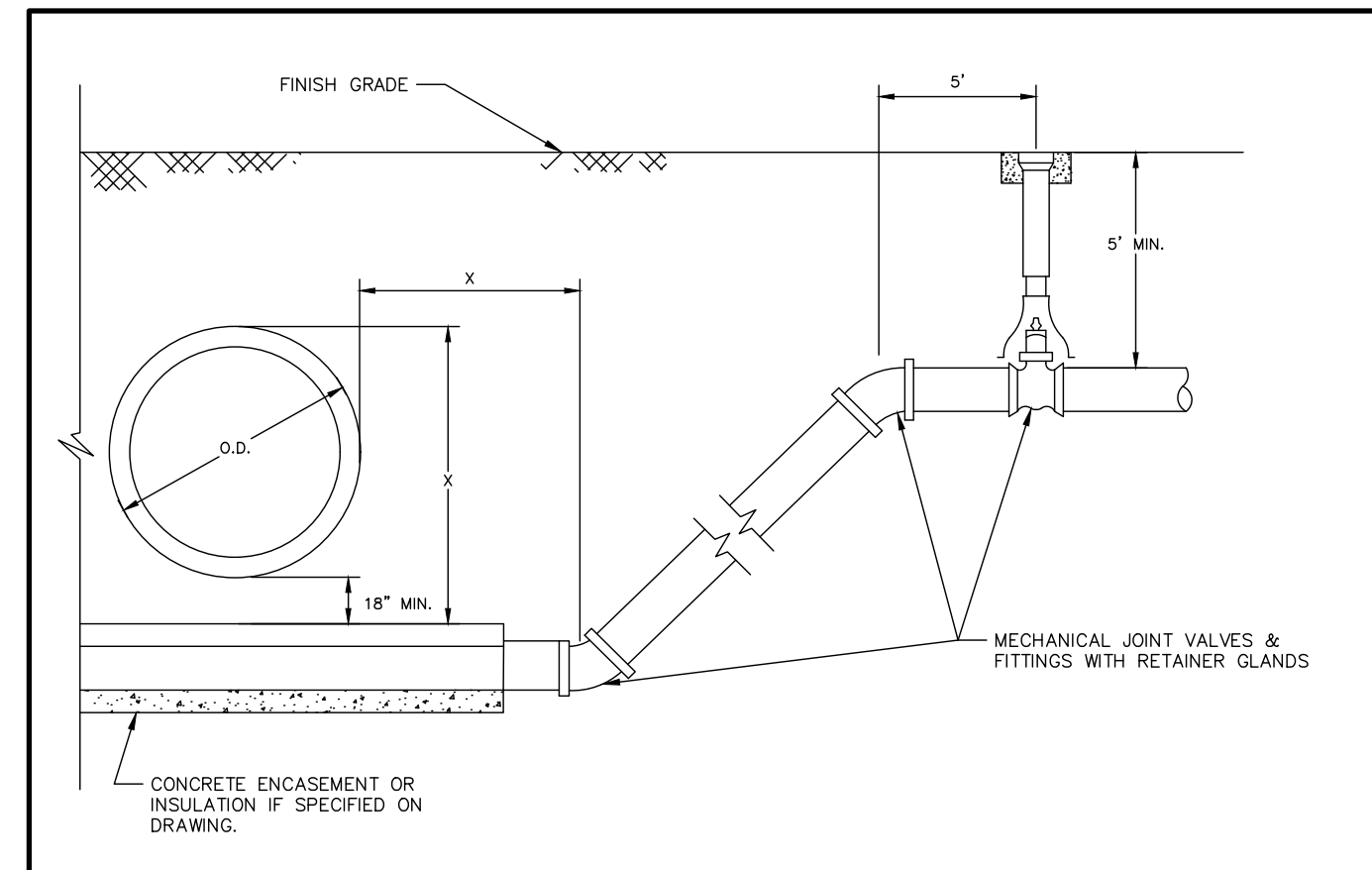
ALL SANITARY SEWER MAINS, LATERALS AND APPURTANCES (INCLUDING MANHOLES) SHALL BE LAID AT LEAST TEN FEET (10'), HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN OR WATER MAIN. SHOULD LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET (10'), A SANITARY SEWER MAY BE LAID CLOSER THAN TEN FEET (10') TO A STORM OR WATER MAIN, PROVIDED THAT THE MAIN IS LAID IN A SEPARATE TRENCH, OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE WATER MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST EIGHTEEN INCHES (18") ABOVE THE TOP OF THE SANITARY SEWER AS APPROVED BY THE LOCAL DEPT. OF HEALTH. WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND/OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND SANITARY SEWER MUST BE CONSTRUCTED OF PUSH-ON (DUCTILE IRON TYTON PIPE AND FITTINGS WITH FIELD LOK 35 GASKETS (AS MFG BY US PIPE AND FOUNDATION COMPANY, OR APPROVED EQUAL) OR MECHANICAL JOINT CAST IRON PIPE, CLASS 52 DUCTILE IRON PIPE, AND MUST BE HYDROSTATICALLY PRESSURE-TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING. THE SEWER MAIN AND LATERAL PIPE MUST BE HYDROSTATICALLY TESTED TO A MINIMUM OF 50 PSI IN ACCORDANCE WITH AN ACCEPTABLE TESTING PROCEDURE ADOPTED FOR THE PIPE MATERIAL.

WHENEVER WATER MAINS MUST CROSS HOUSE SEWERS, STORM DRAINS, OR SANITARY SEWERS, THE WATER MAIN SHOULD BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS EIGHTEEN INCHES (18") ABOVE THE TOP OF THE SEWER. THIS VERTICAL SEPARATION SHOULD BE MAINTAINED FOR THE PORTION OF THE WATER MAIN LOCATED WITHIN TEN FEET (10') HORIZONTALLY OF ANY SEWER OR DRAIN IT CROSSES, SAID TEN FEET (10') TO BE MEASURED HORIZONTALLY FROM THE OPPOSING OUTSIDE DIAMETER FACES OF THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET (10').

WHERE CONDITIONS PREVENT THE MINIMUM VERTICAL SEPARATION SET FORTH ABOVE FROM BEING MAINTAINED, OR WHEN IT IS NECESSARY FOR THE WATER MAIN TO PASS UNDER A SEWER OR DRAIN, THE WATER MAIN MUST BE LAID WITH SLIP-ON OR MECHANICAL JOINT CLASS 52 DIP PIPE. PIPE MUST BE EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE HORIZONTAL DISTANCE FROM THE OPPOSING OUTSIDE DIAMETER FACES OF THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET (10').

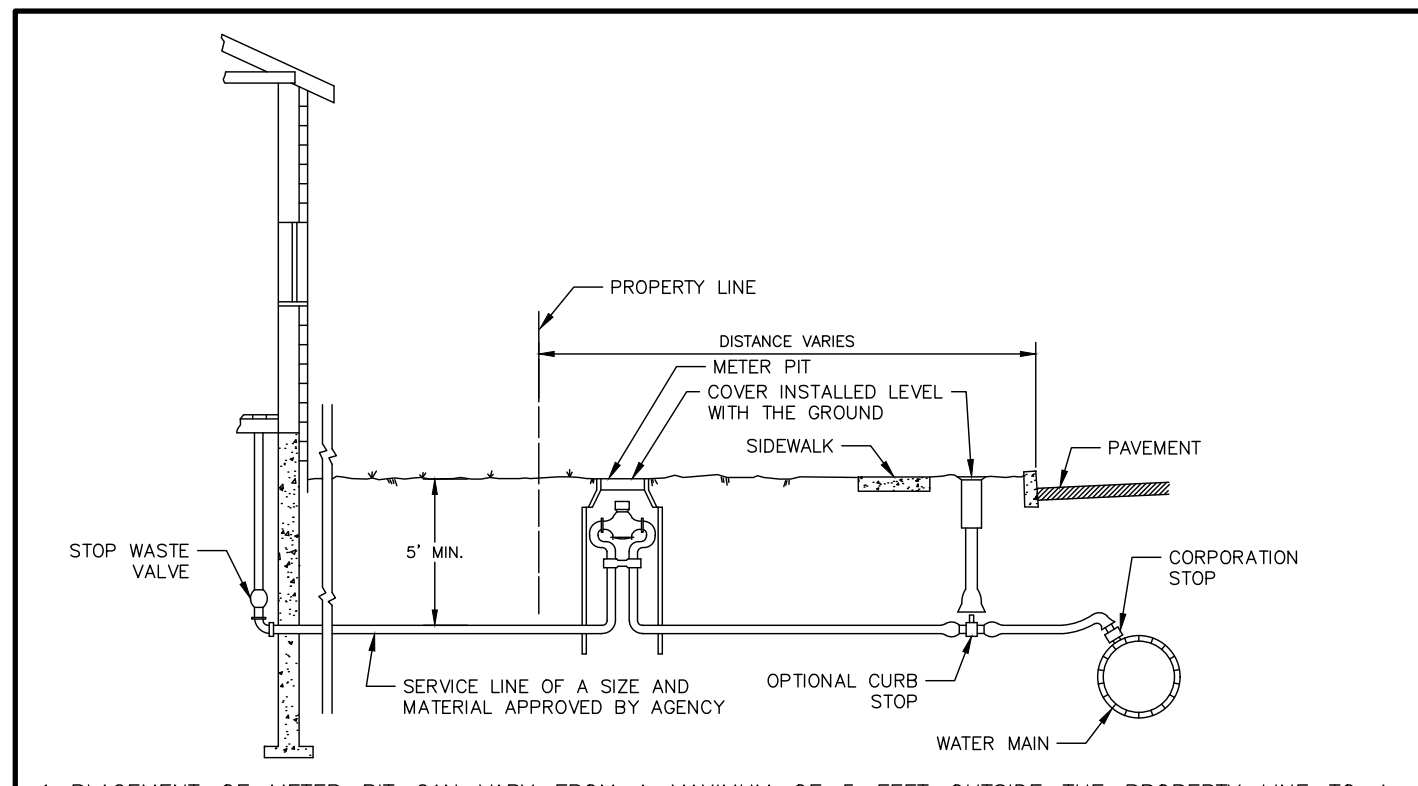
IN MAKING SUCH CROSSING, IT IS REQUIRED TO CENTER A LENGTH OF WATER MAIN PIPE UNDER THE SEWER TO BE CROSSED SO THAT THE JOINTS WILL BE EQUI-DISTANT FROM THE SEWER AND AS REMOTE THEREFROM AS POSSIBLE.

WHERE A WATER MAIN MUST CROSS UNDER A SEWER, A VERTICAL SEPARATION OF EIGHTEEN INCHES (18") BETWEEN THE BOTTOM OF THE SEWER AND THE TOP OF THE WATER MAIN MUST BE MAINTAINED, WITH ADEQUATE SUPPORT FOR THE LARGER-SIZED SEWER LINES TO PREVENT THEM FROM SETTLING ON AND BREAKING THE WATER MAIN.



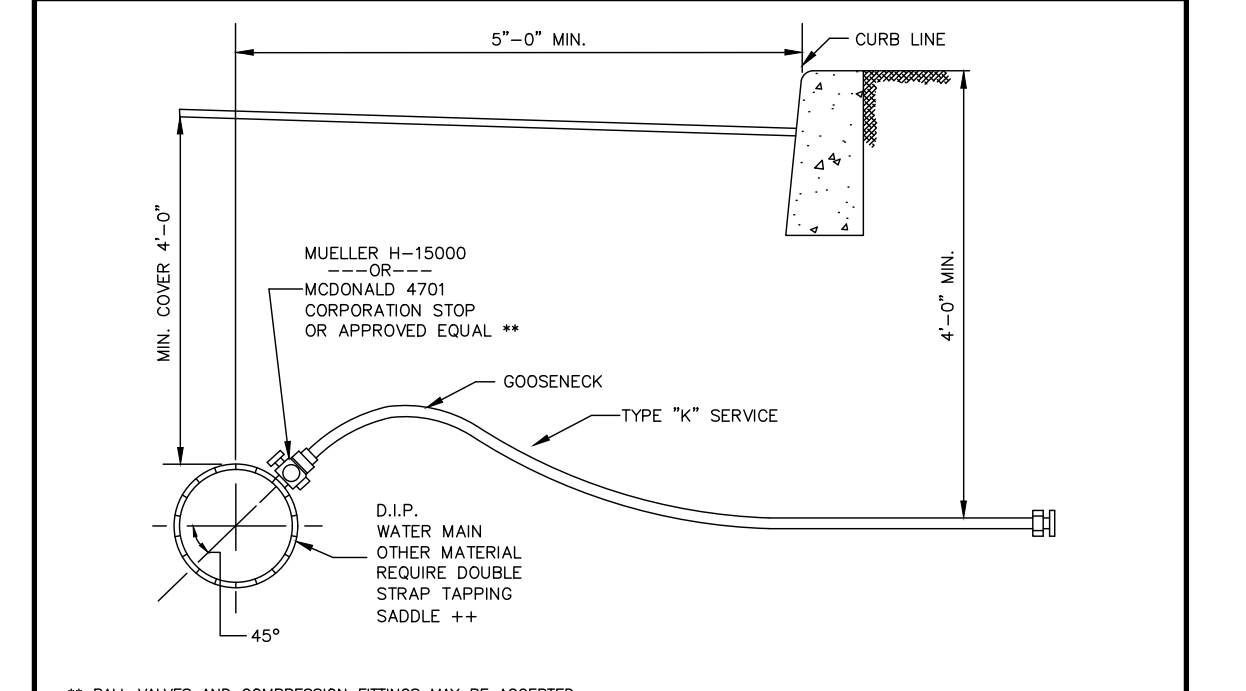
- NOTES:
1. CONCRETE ENCASUREMENT OR INSULATION WILL ONLY BE INSTALLED IF SPECIFICALLY REQUIRED ON THE CONSTRUCTION DRAWINGS.
 2. CONCRETE ENCASUREMENT WILL BE IN ACCORDANCE WITH THE STANDARD DETAIL FOR ENCASUREMENT UNLESS OTHERWISE SPECIFIED.
 3. IF PIPE IS ENCASED THE LOWER FITTINGS WILL BE ROODED TO RETAINER CLAMP 10 FEET INSIDE OF CONCRETE ENCASUREMENT.
 4. IF PIPE IS NOT ENCASED THE PIPE BETWEEN LOWER FITTINGS SHALL HAVE RESTRAINED JOINTS.
 5. ALL RETAINER GLANDS OR RESTRAINED JOINTS SHALL BE WRAPPED IN POLYETHYLENE.
 6. ALL PIPE SHALL BE WRAPPED IN POLYETHYLENE IF CORROSIVE SOILS ARE ENCOUNTERED.
 7. THE MINIMUM DISTANCE FROM THE OUTSIDE WALL OF THE UTILITY BEING CROSSED TO THE CENTER OF THE LOWER BEND SHALL BE EQUAL TO THE DISTANCE FROM THE TOP OF THE UPPER UTILITY TO THE TOP OF THE WATER MAIN. THIS MINIMUM DISTANCE SHALL BE AS MEASURED PERPENDICULAR TO THE UPPER UTILITY.
 8. LOWER FITTING SHALL BE ROODED TO UPPER FITTING IF A PIPE JOINT EXISTS BETWEEN THESE FITTINGS.
 9. UPPER FITTINGS SHALL BE ROODED TO VALVE.
 10. VALVE SHALL BE ROODED A MINIMUM OF 20 FEET FROM THE CROSSING.

UT#10
N.T.S.
03/24
VERTICAL DEFLECTION DETAIL



1. PLACEMENT OF METER PIT CAN VARY FROM A MAXIMUM OF 5 FEET OUTSIDE THE PROPERTY LINE TO A MAXIMUM OF 5 FEET INSIDE THE PROPERTY LINE. PLACEMENT OUTSIDE OF THE PROPERTY LINE IS PREFERRED.
2. OWNER'S RESPONSIBILITY SHALL BE AS INDICATED ON THE DEVELOPMENT/UTILITY PLAN SHEET(S) AND/OR THE DEVELOPER'S AGREEMENT.
3. SEE SERVICE CONNECTION DETAIL FOR INFORMATION REGARDING MATERIALS.
4. SHOULD A SITUATION ARISE OTHER THAN SHOWN CONCERNING THE DEPTH OBSTRUCTION OF SERVICE LINE OR THE PLACEMENT OF METER PIT OR CURB BOX, CALL THE AUTHORITY IMMEDIATELY FOR DIRECTION.
5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS.
6. SERVICE LINE MUST BE A MINIMUM OF 1" DIAMETER OF TYPE "K" COPPER FROM THE WATER MAIN TO, THROUGH AND TO THE OUTSIDE WALL OF THE METER PIT.

UT#2
N.T.S.
02/24
SERVICE LINE WITH METER PIT DETAIL

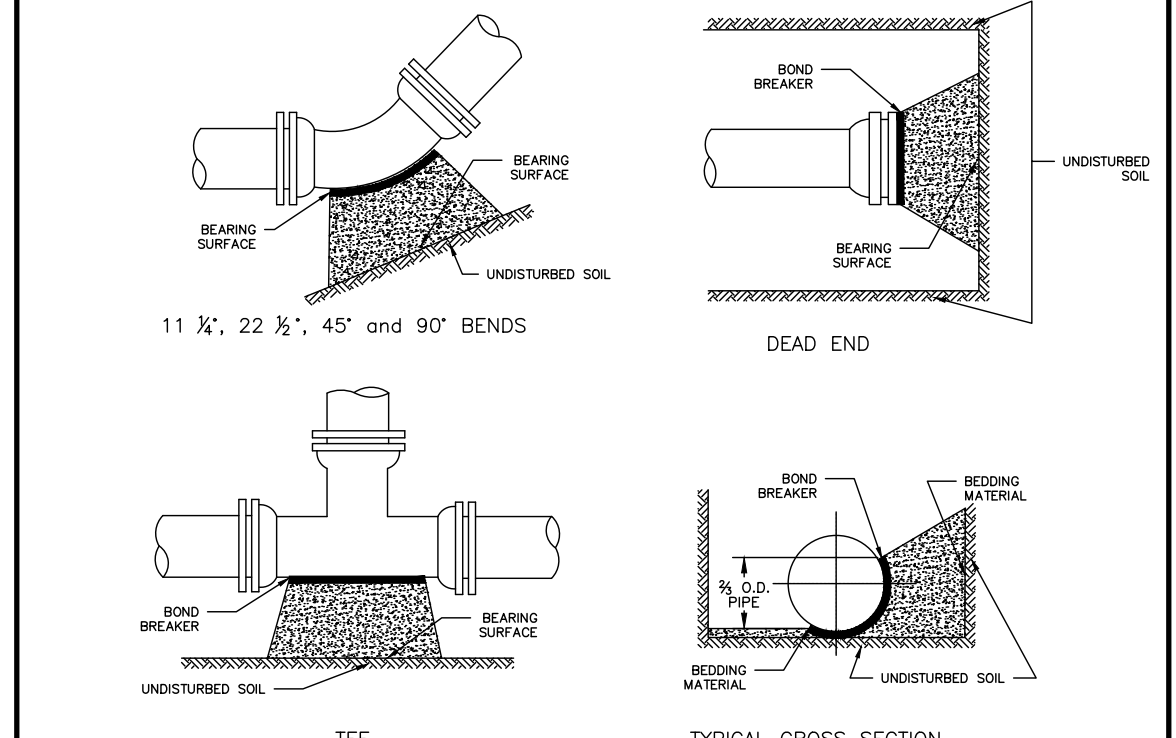


** BALL VALVES AND COMPRESSION FITTINGS MAY BE ACCEPTED
 ** 1/2" & 2" LINES REQUIRE DOUBLE STRAP TAPPING SADDLE FOR ALL SIZE LINES
 SADDLES REQUIRED ON ALL TAPS FOR LINES LESS THEN 8" IN DIAMETER

UT#9
N.T.S.
03/24
SERVICE CONNECTION DETAIL

PIPE SIZE	MINIMUM BEARING SURFACE AREA (F ²)				TIE OR BEAK IN
	B	E	N	D	
6"	1.0	1.5	2.5	4.5	3.5
8"	1.0	2.5	4.5	8.0	5.5
10"	2.0	3.5	7.0	12.5	9.0
12"	2.5	5.0	9.5	17.5	12.5
16"	4.5	8.5	17.0	31.0	22.5
18"	5.5	11.0	21.5	39.5	28.5
20"	7.0	13.5	27.0	49.0	35.0
24"	10.0	19.5	38.5	70.5	50.0

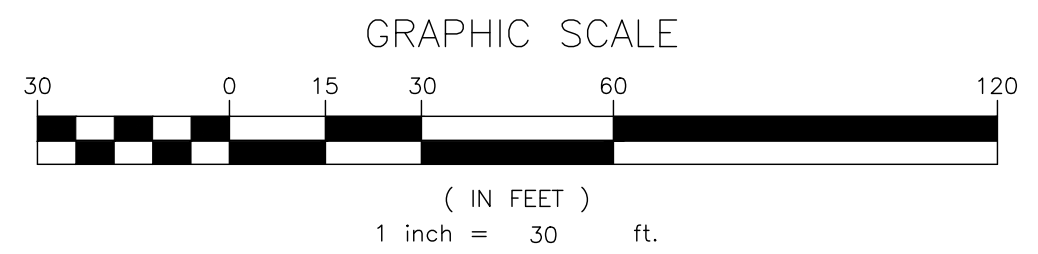
UT#11
03/24
CONCRETE THRUST BLOCK DETAIL



UT#3
N.T.S.
02/24
CONNECTION DETAILS

PREPARED FOR
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Designing Group

LEGEND:
 WM WATER METER
 GM GAS METER
 CO CLEAN-OUT
 (LATERAL SEWER CONNECTION)



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JOSIP MEDIC, PE

STATE OF NEW YORK
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 103757

LIC. 103757 DATE 03/19/2025

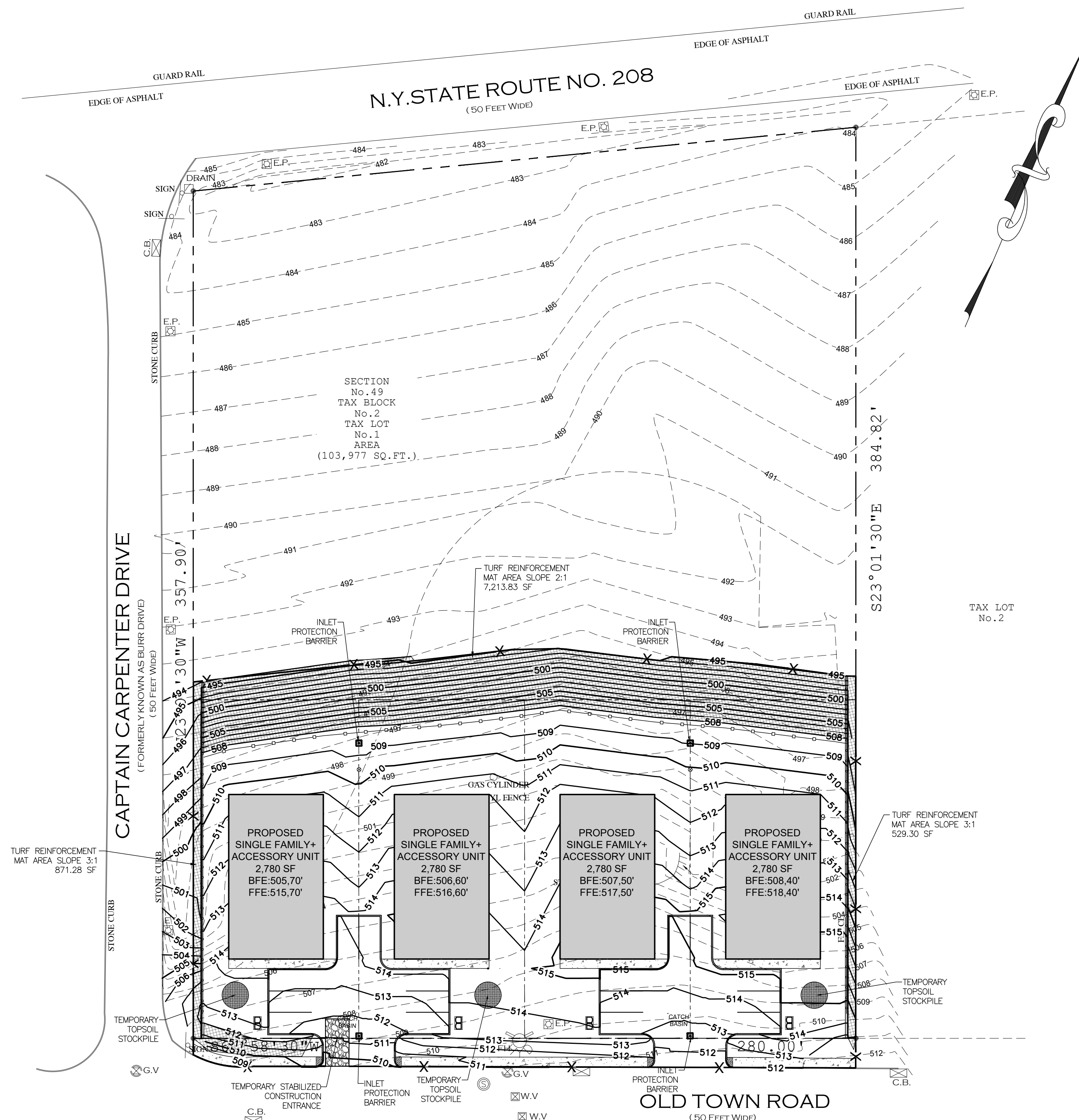
UTILITY PLAN

DESIGN BY: YB
 DRAWN BY: ER
 CHECKED BY: 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: **05 OF 07**
 SCALE: 1"=30'
 FILE NO.: 24299
 DATE: 01/24/2025





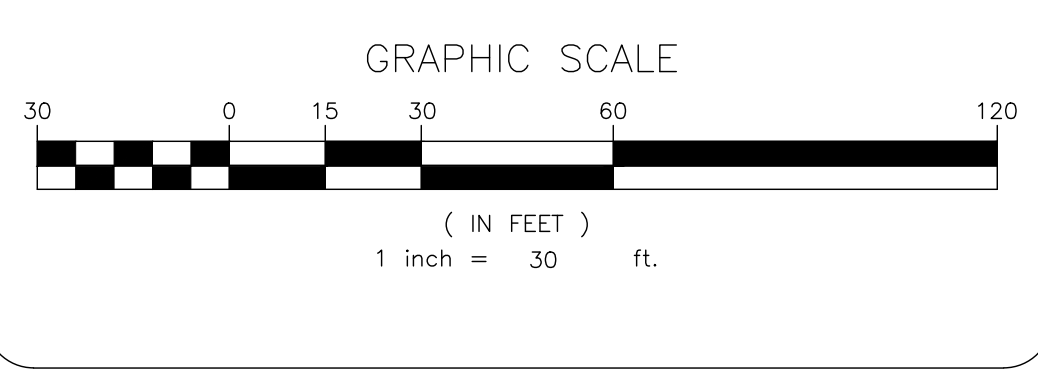
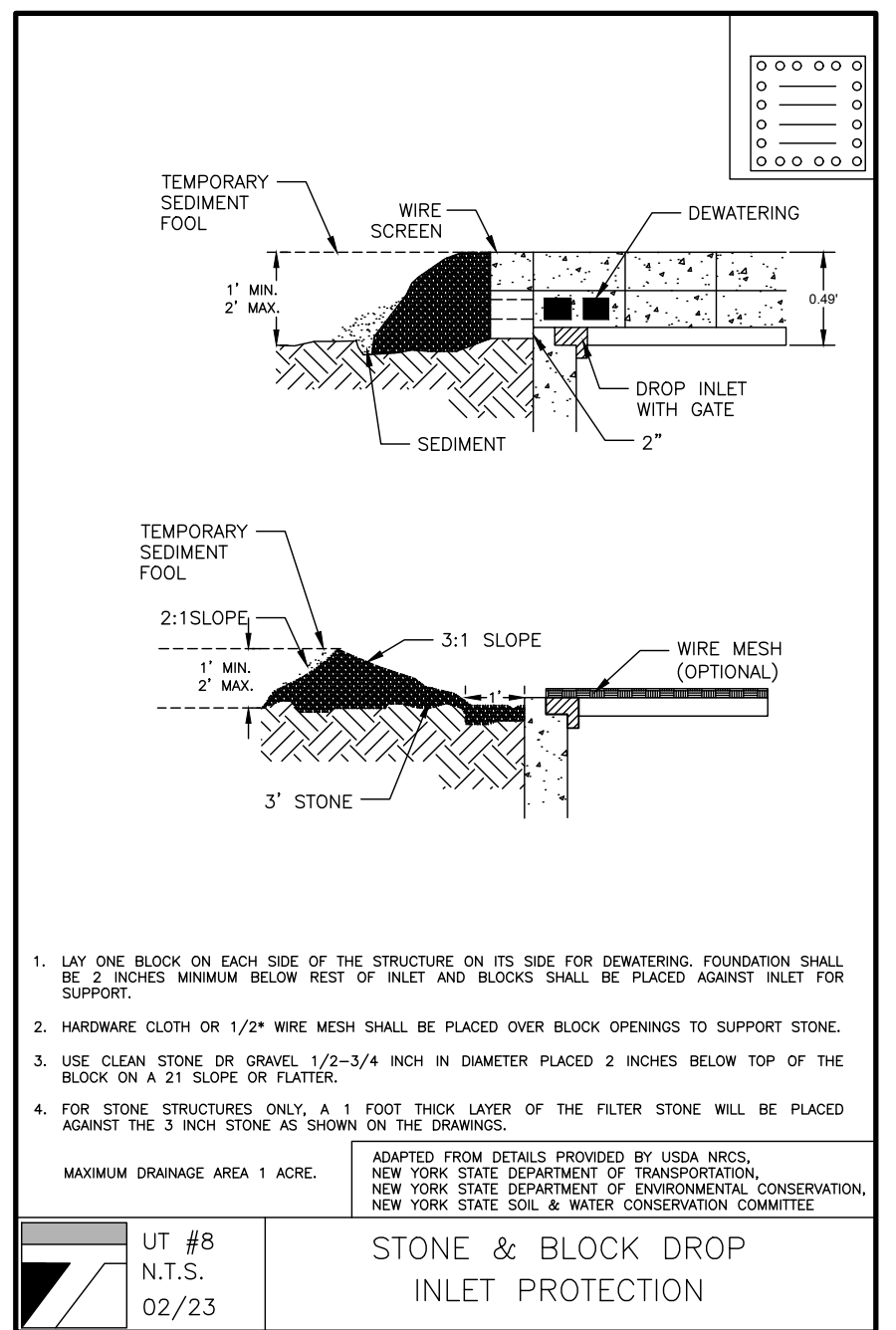
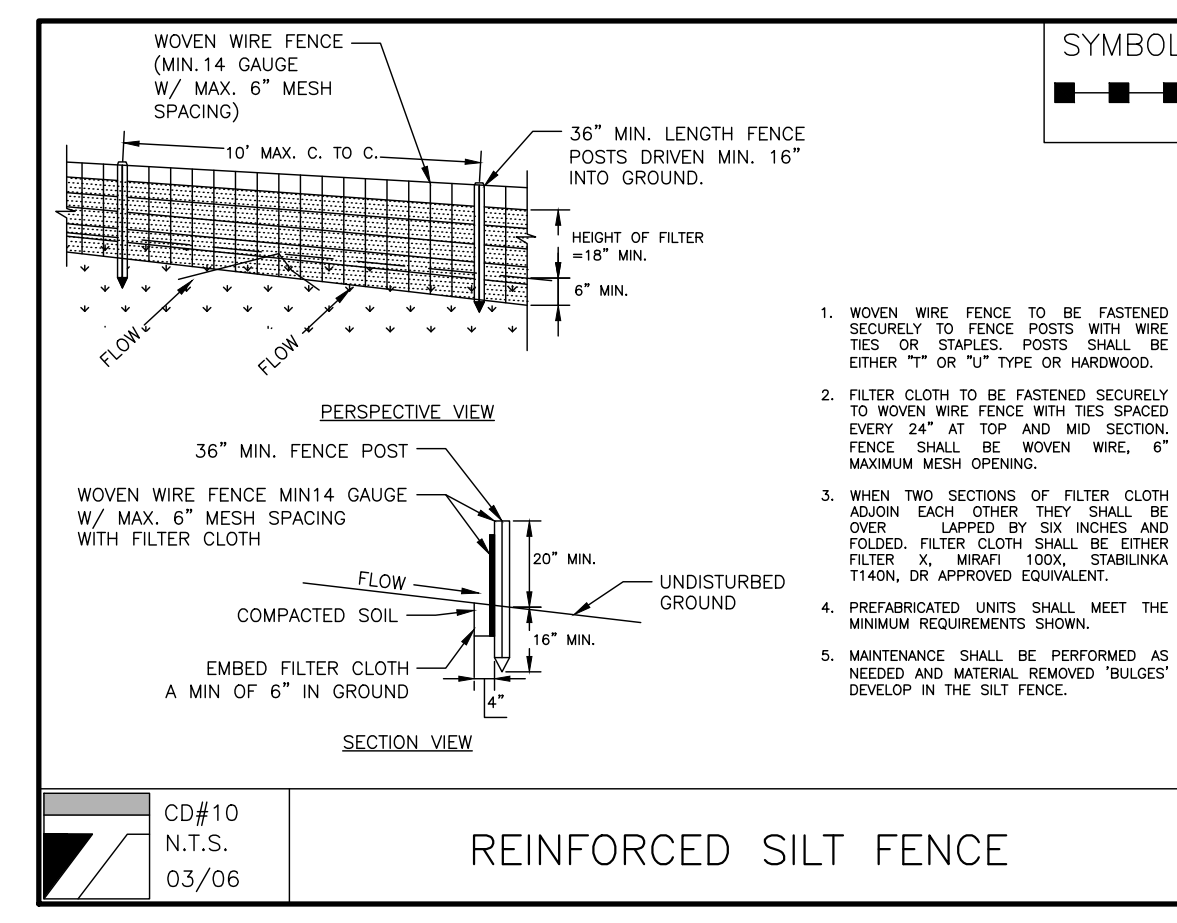
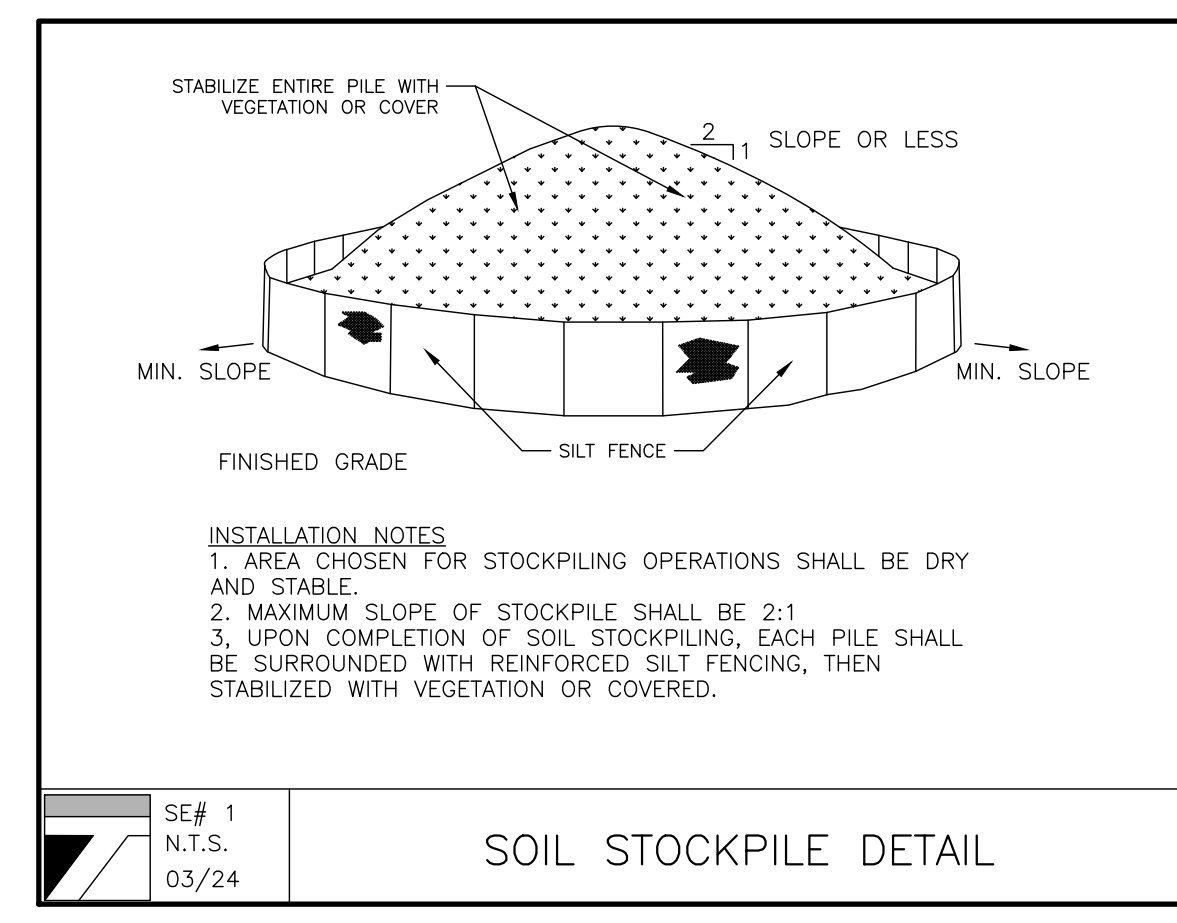
LEGEND:

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

NOTES:
 1. AREA OF DISTURBANCE: 47,733.33 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 FOR 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 STEEPER SHALL BE REPLACED BY CLOCK SODDING.



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JOSIP MEDIC, PE

LIC. 103757 DATE 03/19/2025

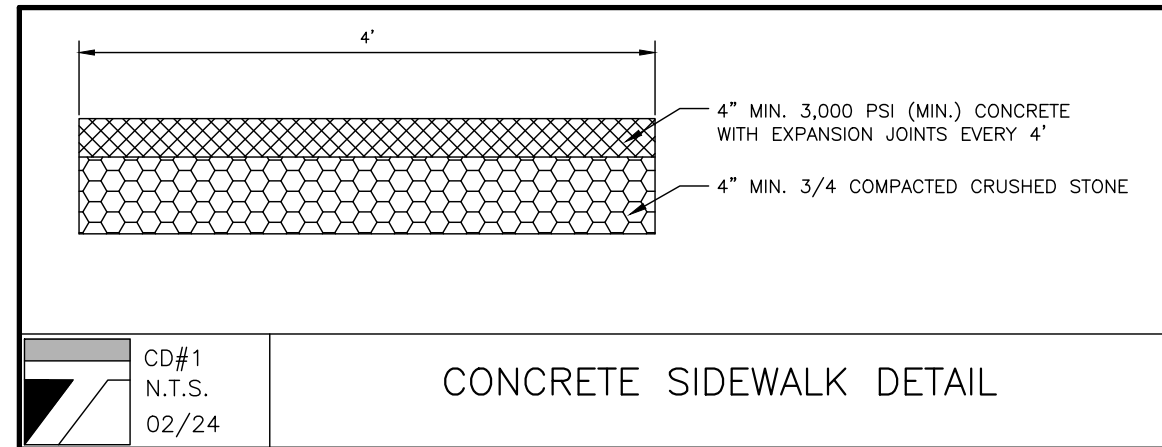
SOIL EROSION AND SEDIMENT CONTROL PLAN

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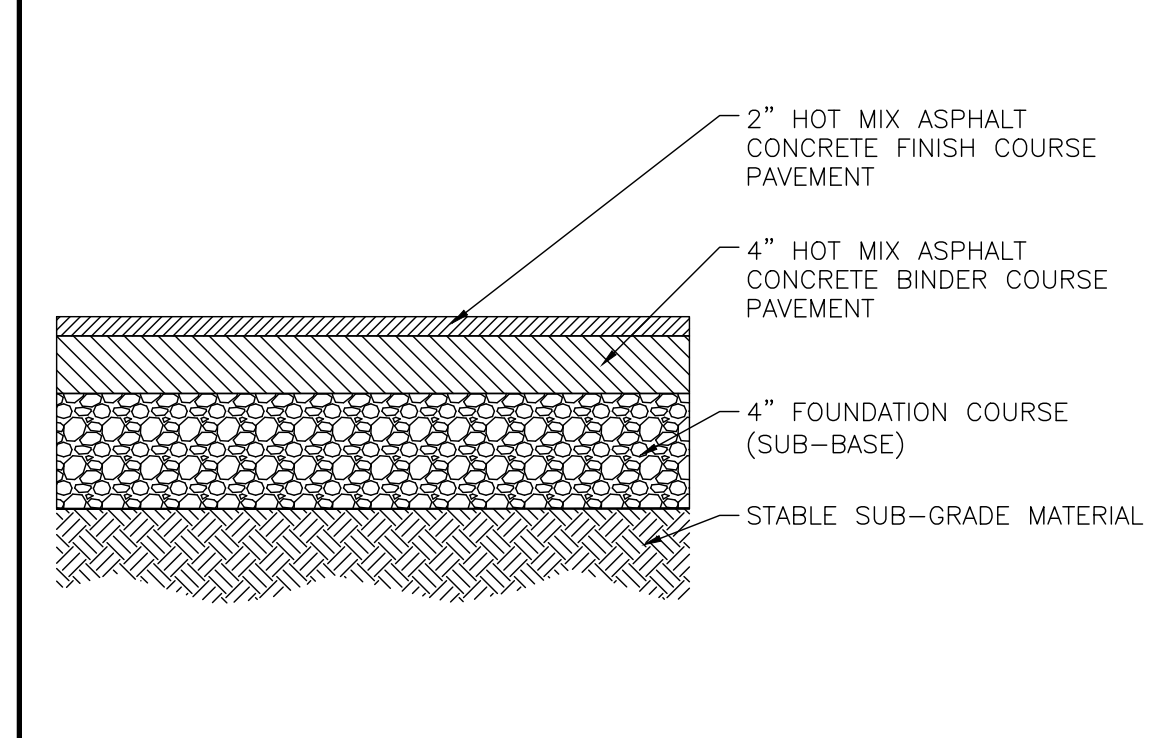
DRAWING NUMBER: **06** OF **07** SCALE: 1"=30' FILE NO.: 24299 DATE: 01/24/2025





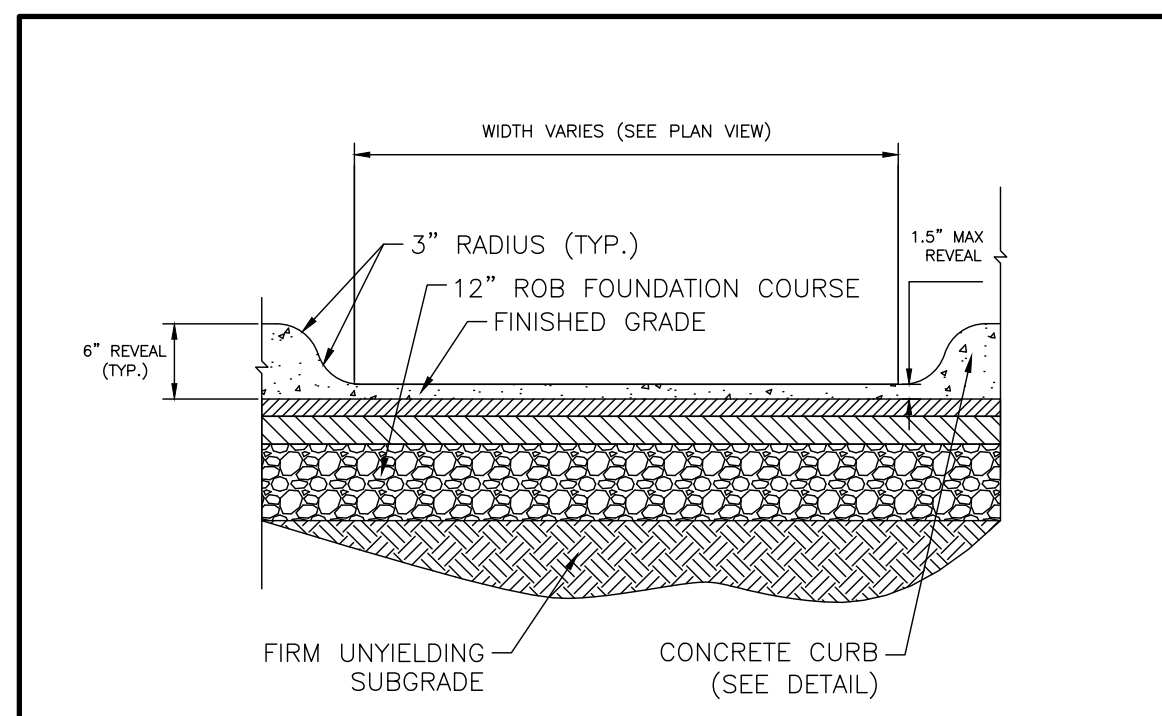
CD#1
N.T.S.
02/24

CONCRETE SIDEWALK DETAIL



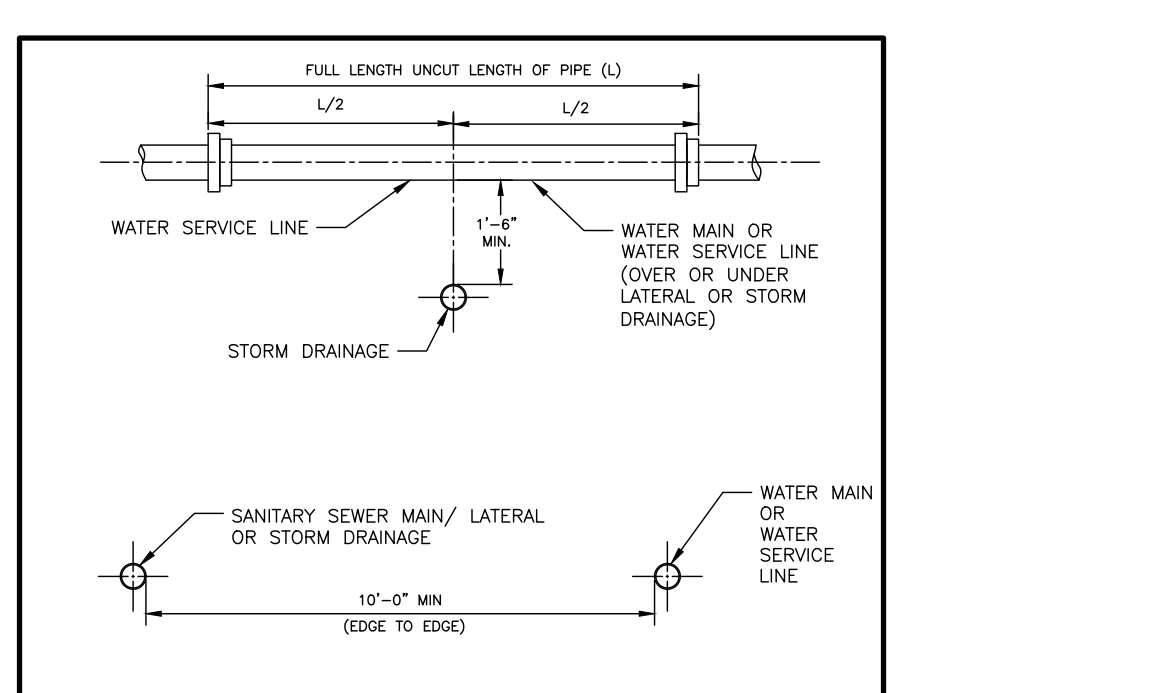
CD#2
N.T.S.
02/24

ASPHALTIC CONCRETE PAVEMENT DETAIL



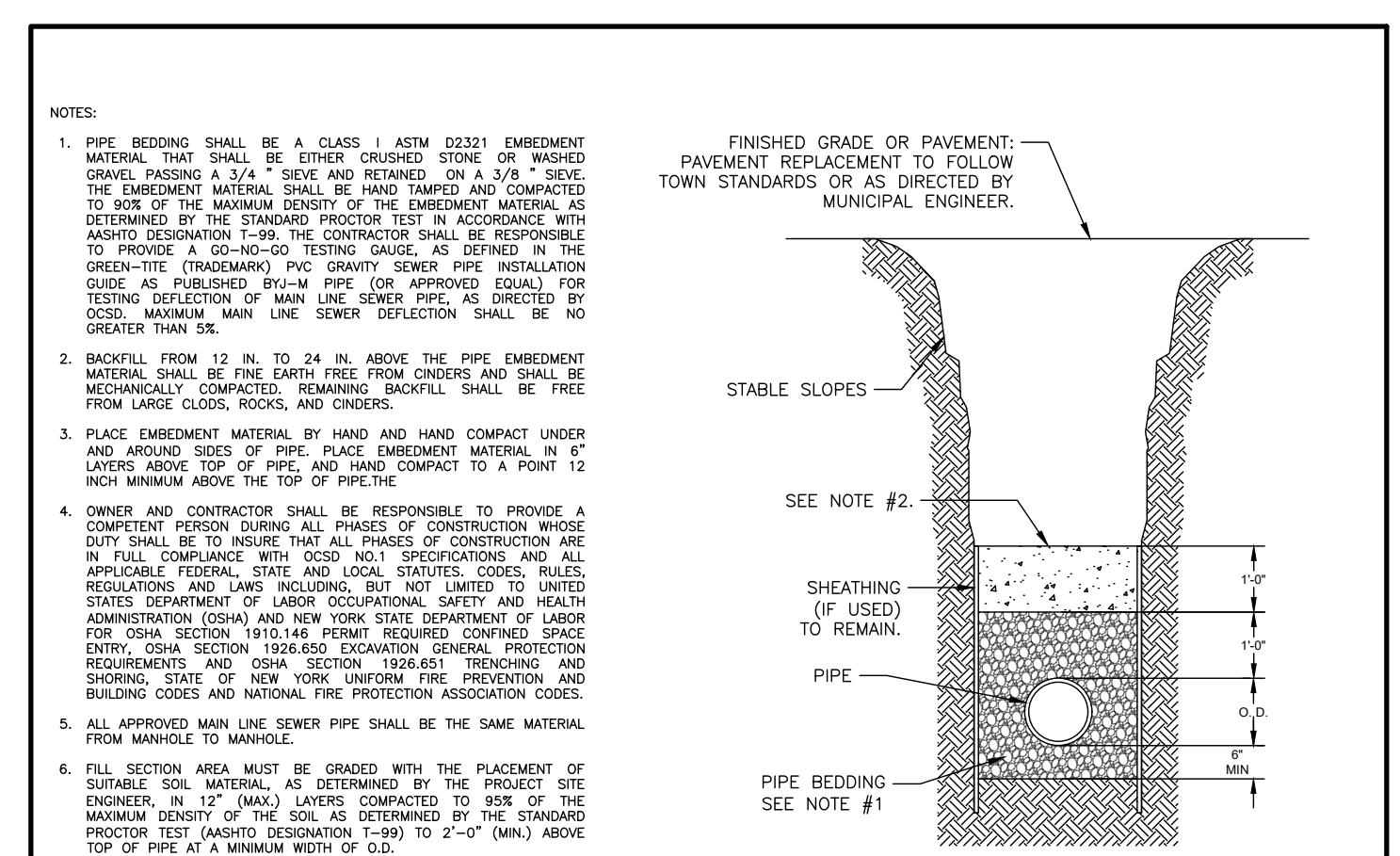
CD#3
N.T.S.
02/24

CURB CUT DETAIL



UT #5
N.T.S.
02/23

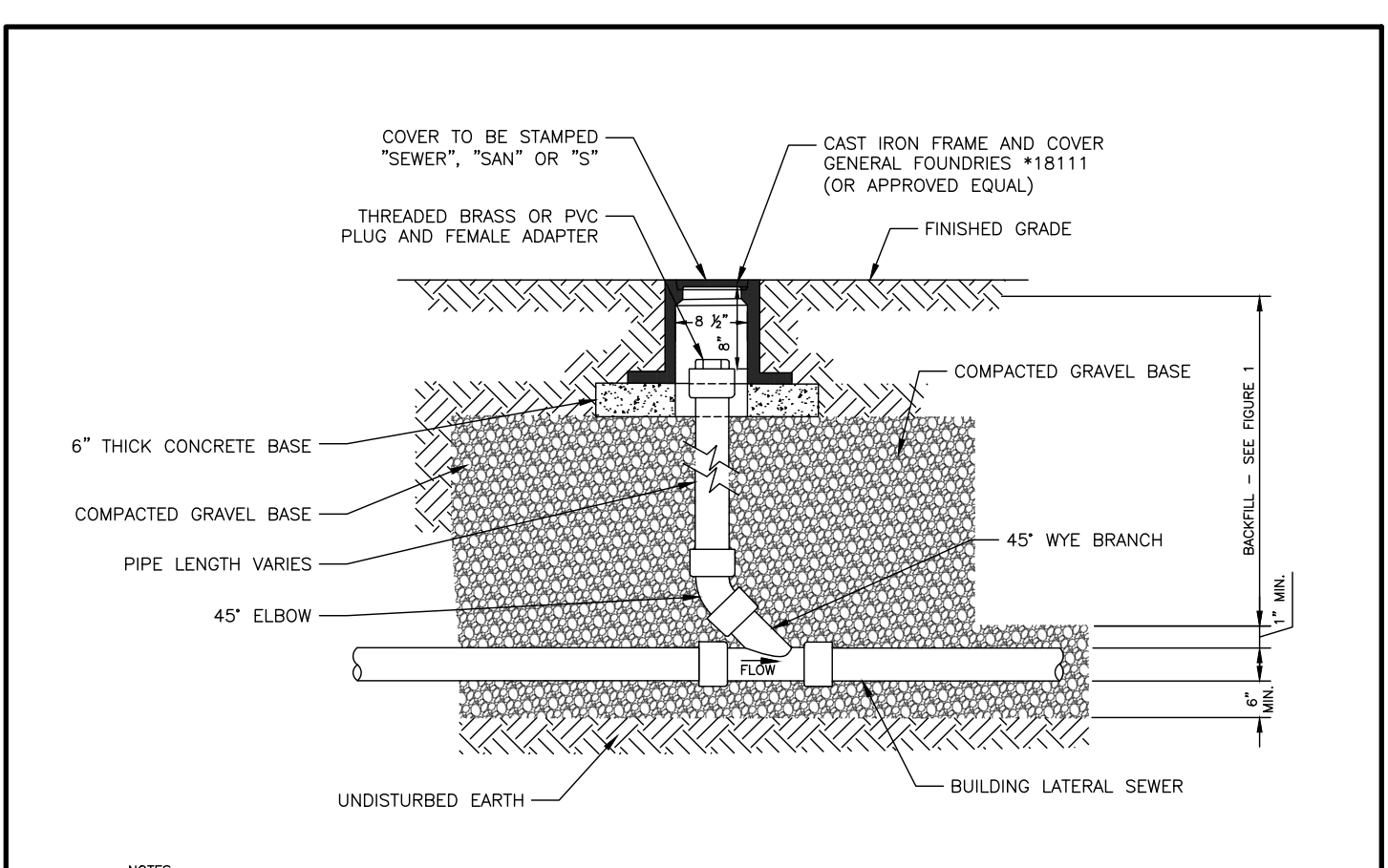
SANITARY SEWER/WATER/STORM DRAINAGE SEPARATION REQUIREMENTS



UT #4
N.T.S.
02/23

TYPICAL TRENCH DETAIL (SANITARY SEWER)

PIPE O.D.	TRENCH WIDTH
24" AND SMALLER	O.D. + 14"
30" AND LARGER	O.D. + 2'0"



UT#1
N.T.S.
02/24

BUILDING LATERAL SEWER CLEANOUT (C.O.)

Description
Enkamat 7010 is a 3-dimensional open and available for soil, mulch and root interaction, creating the most effective root reinforcement mat (R2M) 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 (1H: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 58 TRM
- Material Specific Gravity of > 1.14 prevents buoyancy—the No Float TRM.

Technical Data

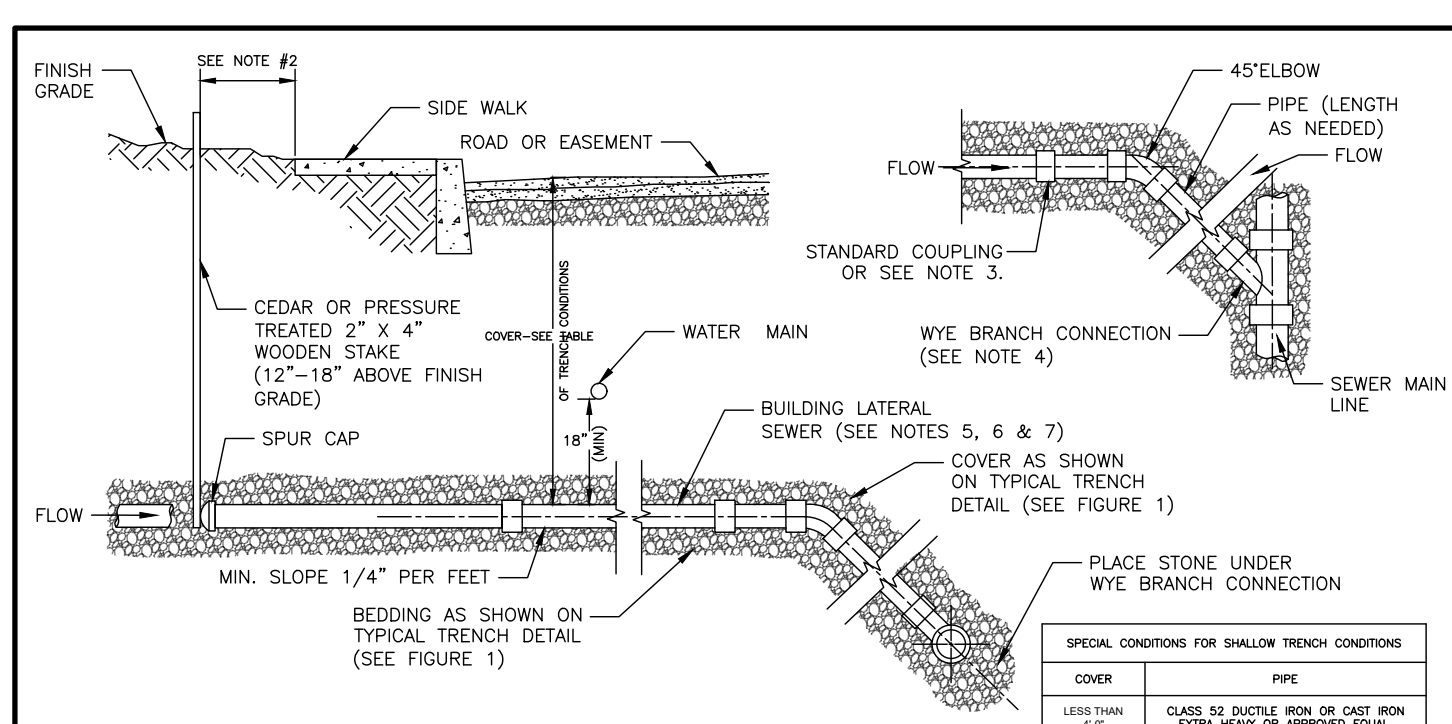
Mechanical Properties	Test Method	Units	MARV Roll Value
Tensile Strength	ASTM D 6818	kN/m (lbf/ft)	1.8 (125)
Thickness	ASTM D 6525	mm (in)	6.25 (0.25)
Mass/Unit Area	ASTM D 6566	g/m ² (oz/yd ²)	150 (4.5)
Resiliency	ASTM D 6524	%	> 80
UV Stability	ASTM D 4355	% strength retained	80 @ 2000 hr

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

Packaging

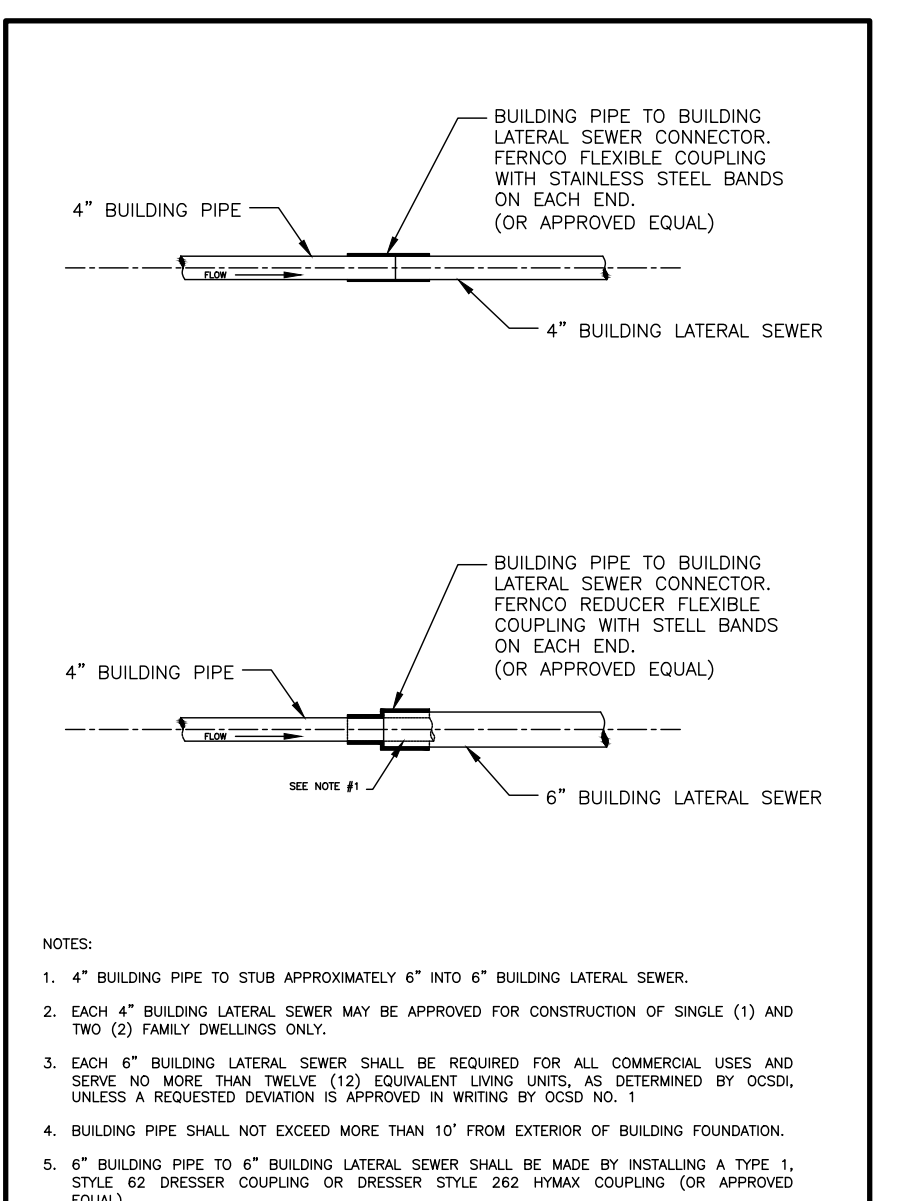
Property	Units	Nominal Value
Roll Dimensions [w x l]	m (ft)	2.4 X 51.4 (8.0 X 169)
Roll Area	m ² (yd ²)	125.4 (150)
Estimated Roll Diameter	m (in)	0.61 (0.7) (24-28)
Estimated Roll Weight	kg (lb)	34 (75)
Color		Black

Low & Bonar Inc.
PO Box 1057 / Enka / NC 28728 / 1800-345-7391 / F 828-665-5009
www.enkasolutions.com / info@lowandbonar.com



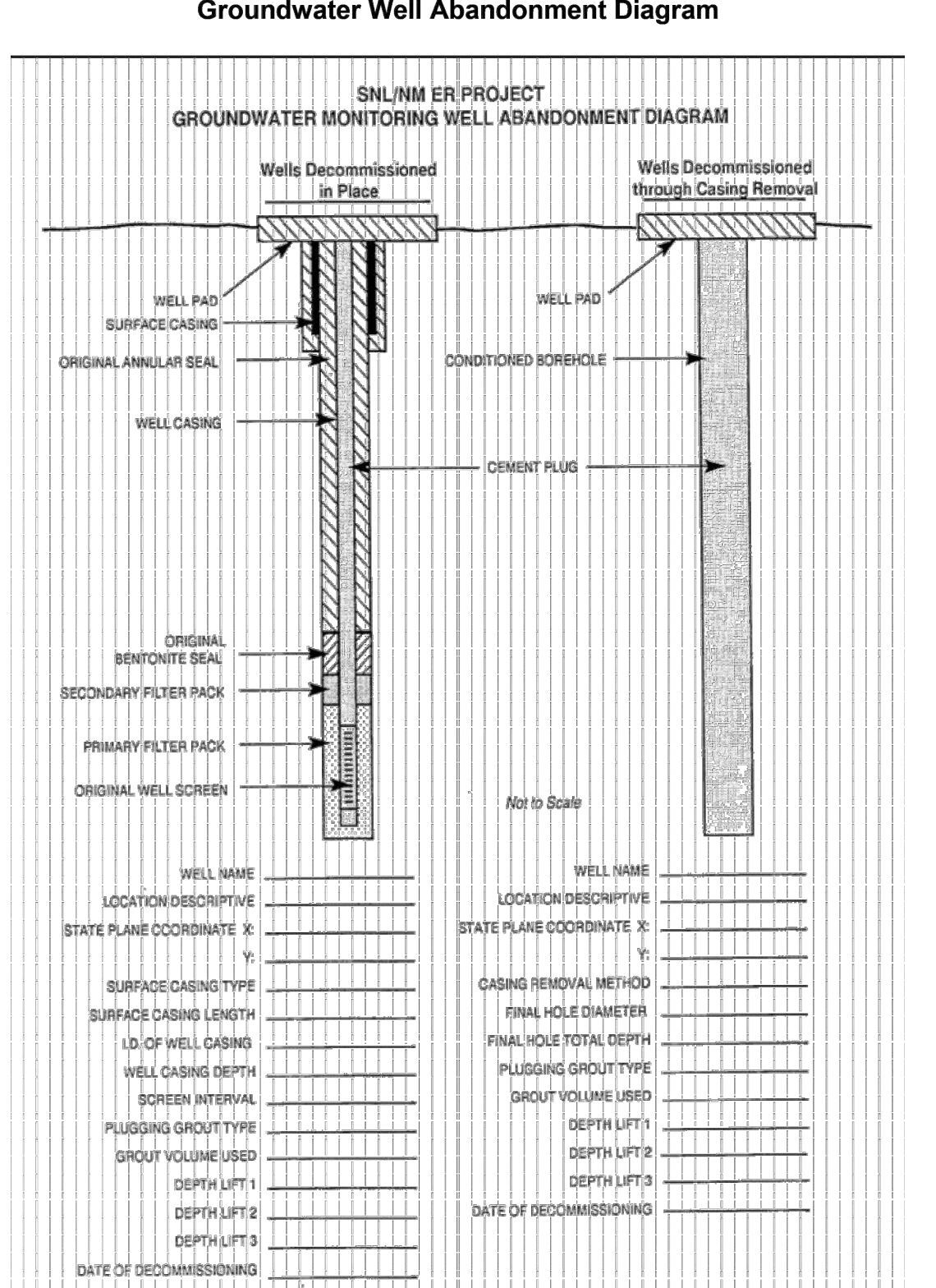
UT #7
N.T.S.
02/23

SANITARY SEWER CONSTRUCTION MATERIALS



UT #6
N.T.S.
02/23

BUILDING PIPE TO BUILDING LATERAL SEWER CONNECTION



TERRANOVA
ENGINEERING CONSULTANTS

TERRANOVA ENGINEERING CONSULTANTS P.C.
71 LAFAVETTE AVE. SUFFERN, NY 10901 SUITE #104
NEW YORK LICENSE No. 0022578
INFO@TERRANOVACOM.P (845) 666-0155

NO.	REVISION	DATE	DR/CK
1	PARKING LAYOUT	03/18/2025	ER/YB

JOSIP MEDIC, PE

Professional Engineer License No. 103757

LIC. 103757 DATE 03/19/2025

DETAIL SHEET

DESIGN BY: YB
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: **07** OF **07**
SCALE: NTS
FILE NO.: 24299
DATE: 01/24/2025

