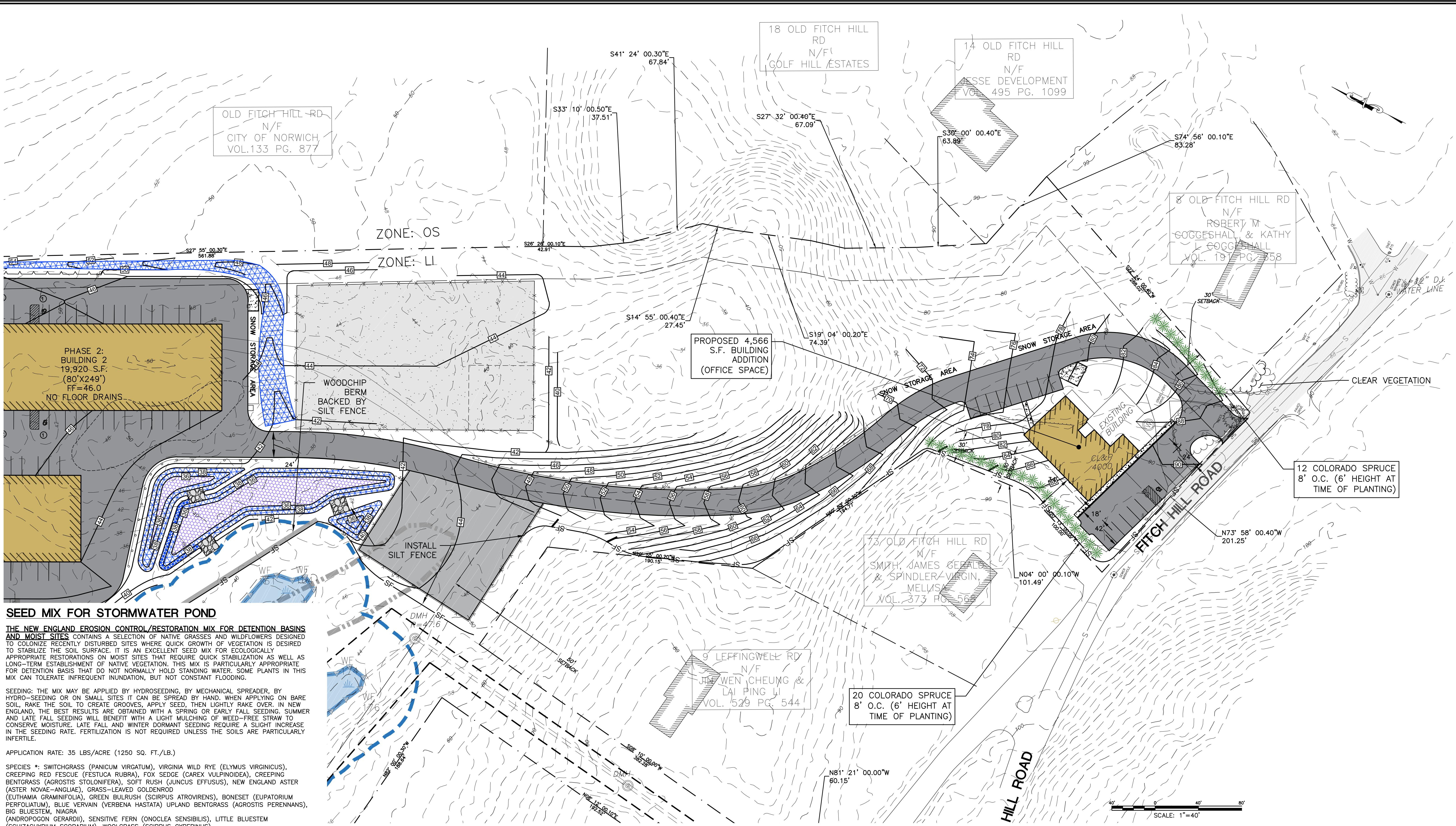




SEED MIX FOR STORMWATER POND

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN EXCELLENT SEED MIX FOR ECOLOGICALLY APPROPRIATE RESTORATIONS ON MOIST SITES THAT REQUIRE QUICK STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT NORMALLY HOLD STANDING WATER. SOME PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING.

SEEDING: THE MIX MAY BE APPLIED BY HYDROSEEDING, BY MECHANICAL SPREADER, BY HYDRO-SEEDING OR ON SMALL SITES IT CAN BE SPREAD BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH A SPRING OR EARLY FALL SEEDING. SUMMER AND LATE FALL SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A SLIGHT INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE.

APPLICATION RATE: 35 LBS/ACRE (1250 SQ. FT./LB.)

SPECIES *: SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEDGE (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), GRASS-LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), GREEN BULRUSH (SCIRPUS ATROVIRENS), BONESET (EUPATORIUM PERFOLIATUM), BLUE VERVAIN (VERBENA HASTATA) UPLAND BENTGRASS (AGROSTIS PERENNANS), BIG BLUESTEM, NIAGRA (ANDROPOGON GERARDII), SENSITIVE FERN (ONOCLEA SENSIBILIS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), WOOLGRASS (SCIRPUS CYPERINUS).

SEED MIX FOR PERIMETER SLOPES

THE NEW ENGLAND NATIVE WARM SEASON GRASS MIX CONTAINS A BROAD SPECTRUM OF NATIVE WARM SEASON GRASSES TO ENSURE THAT A VARIETY OF THE SPECIES WILL SURVIVE IN THE SANDY AND DROUGHTY CONDITIONS TYPICALLY FOUND ALONG ROADSIDES, GRAVEL MINE RECLAMATION AREAS, AND OTHER LOW-FERTILITY, WELL-DRAINED SOIL CONDITIONS. THIS MIX IS SOMEWHAT SLOW TO GERMINATE AND ESTABLISH DURING THE FIRST YEAR OF PLANTING, BUT IT WILL PRODUCE GOOD COVER BY THE END OF THE SECOND GROWING SEASON AND ESTABLISH LONG-LIVING NATIVE STANDS. COOL SEASON RYE GRASS AND FESCUE HAVE BEEN ADDED AS A "STARTER" SEED FOR EROSION CONTROL. THIS MIX HAS EXCELLENT HEAT AND DROUGHT TOLERANCE, AND GROWS WELL IN WELL-DRAINED SOILS. WARM SEASON GRASSES PROVIDE EXCELLENT YEAR-ROUND COVER AND FOOD FOR WILDLIFE, PARTICULARLY AS WINTER COVER FOR SMALL ANIMALS.

SEEDING: THIS MIX MAY BE APPLIED BY HYDRO SEEDING ON SLOPES, BY MECHANICAL SPREADER, OR ON SMALL SITES IT MAY BE SPREAD BY HAND. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH A MID-LATE SPRING SEEDING. APPLICATION RATE: 23 LBS/ACRE (1900 SQ. FT./LB)

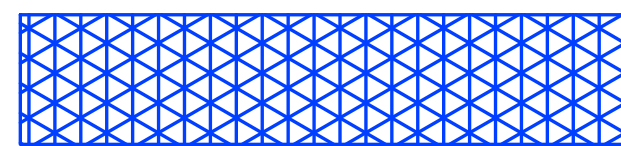
NOTES:

1. INSTALL FOREBAY #1, WATER QUALITY BASIN #1, AND WATER QUALITY BASIN #2, AS SHOWN PRIOR TO THE START OF CONSTRUCTION..
2. ONCE THE SITE IS STABILIZED, REMOVE ALL SEDIMENT FROM FOREBAYS & WATER QUALITY BASINS.
3. REMOVE AN ADDITION 12" OF MATERIAL, BELOW ELEVATION OF 36 AND INSTALL 12" OF TOPSOIL.

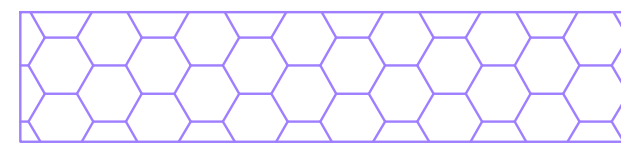
THE FOLLOWING SEEDING MIXTURES SHALL BE PROVIDED ON ALL DISTURBED AREAS.

KENTUCKY BLUE GRASS	20 LB's/AC
CREEPING RED FESCUE	20 LB's/AC
PERENNIAL RYEGRASS	5 LB's/AC

NOTE: SITE GRADING SEEDING TO BE USED IN ALL DISTURBED AREAS



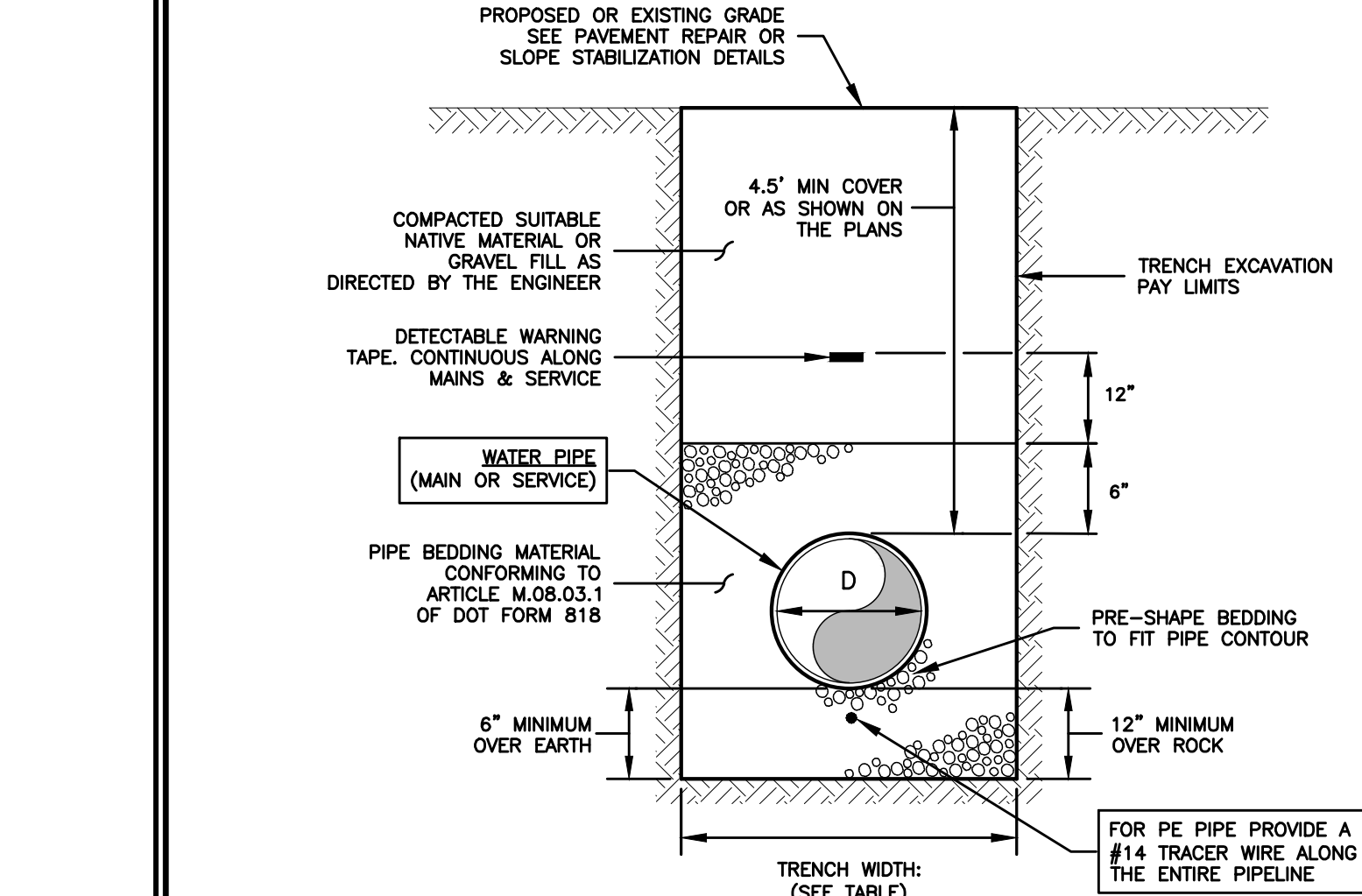
PERIMETER SLOPES SEED MIX



WETLAND MIX (NEW ENGLAND EROSION CONTROL/RESTORATION FOR MOIST SITES)

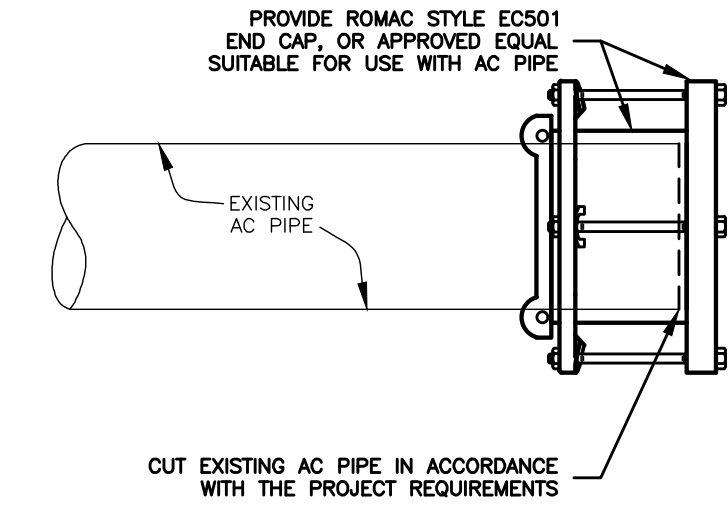
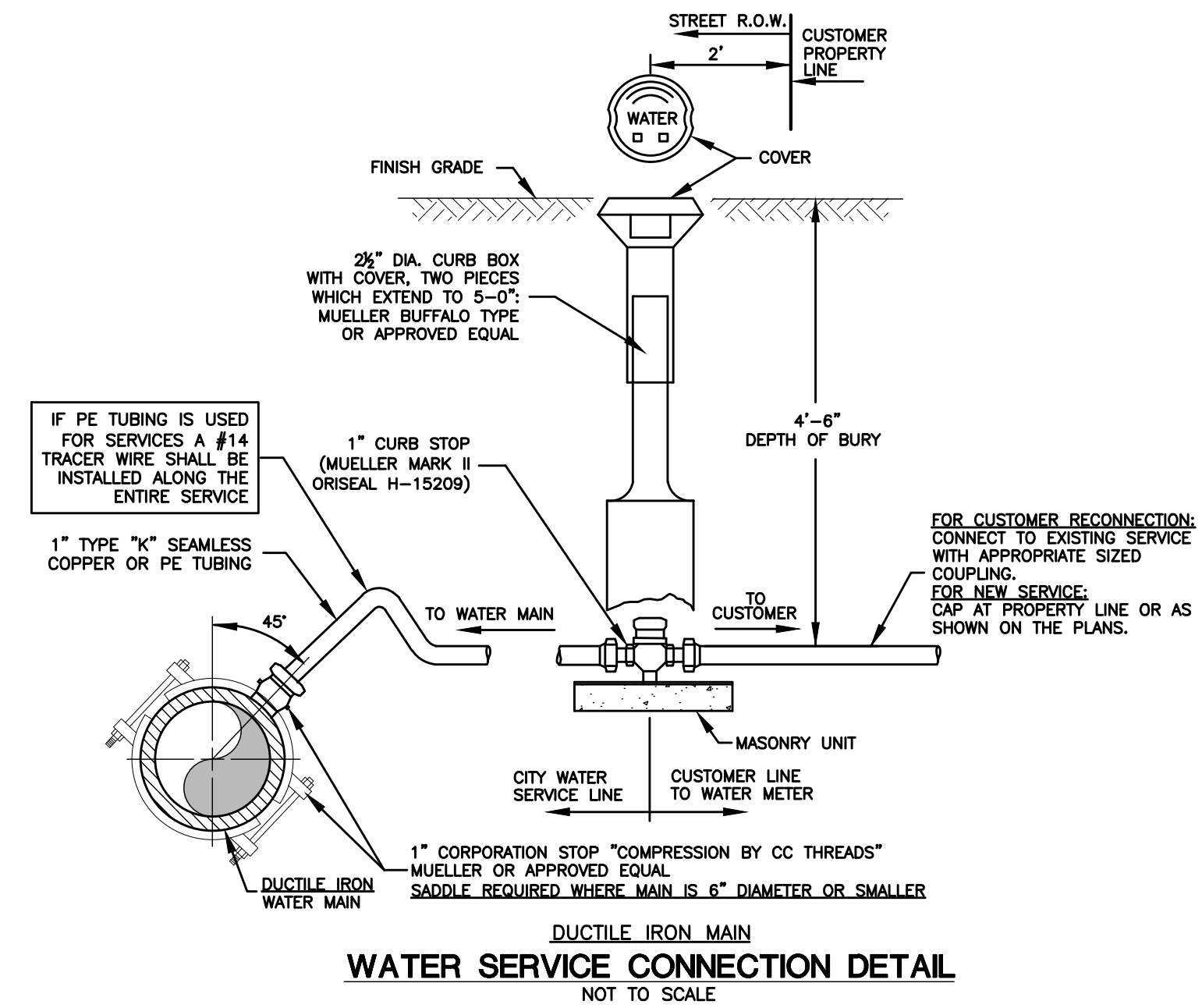
GREEN SITE DESIGN LLC			
317 Main Street Norwich, Connecticut (860) 892-1380 Fax (860) 886-9165			
MONTVILLE, CT			
69 FITCH HILL RD & LEFFINGWELL RD			
PLANTING PLAN			
Project No. GSD-68		Proj. Engineer E.M.B.	
Date: 2/15/23		Sheet No. 13A	
No.		DATE	
4		7/12/23	
3		6/21/23	
2		5/25/23	
1		5/5/23	
REVISION		REVIEW COMMENTS	
		REVIEW COMMENTS P&Z	
		REVIEW COMMENTS	
		REVIEW COMMENTS	





- NOTES:
1. D=INSIDE DIAMETER OF PIPE.
 2. TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LIMITS ONLY.
 3. ALL EXCAVATIONS MUST MEET OSHA STANDARDS.
 4. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL.
 5. BEDDING MATERIAL TO CONFORM TO M.08.03.1 AS PER CT DOT FORM 818.

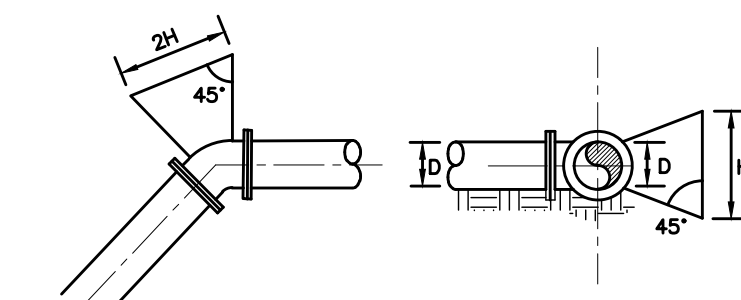
TRENCH DETAIL: WATER MAIN & SERVICE
NOT TO SCALE



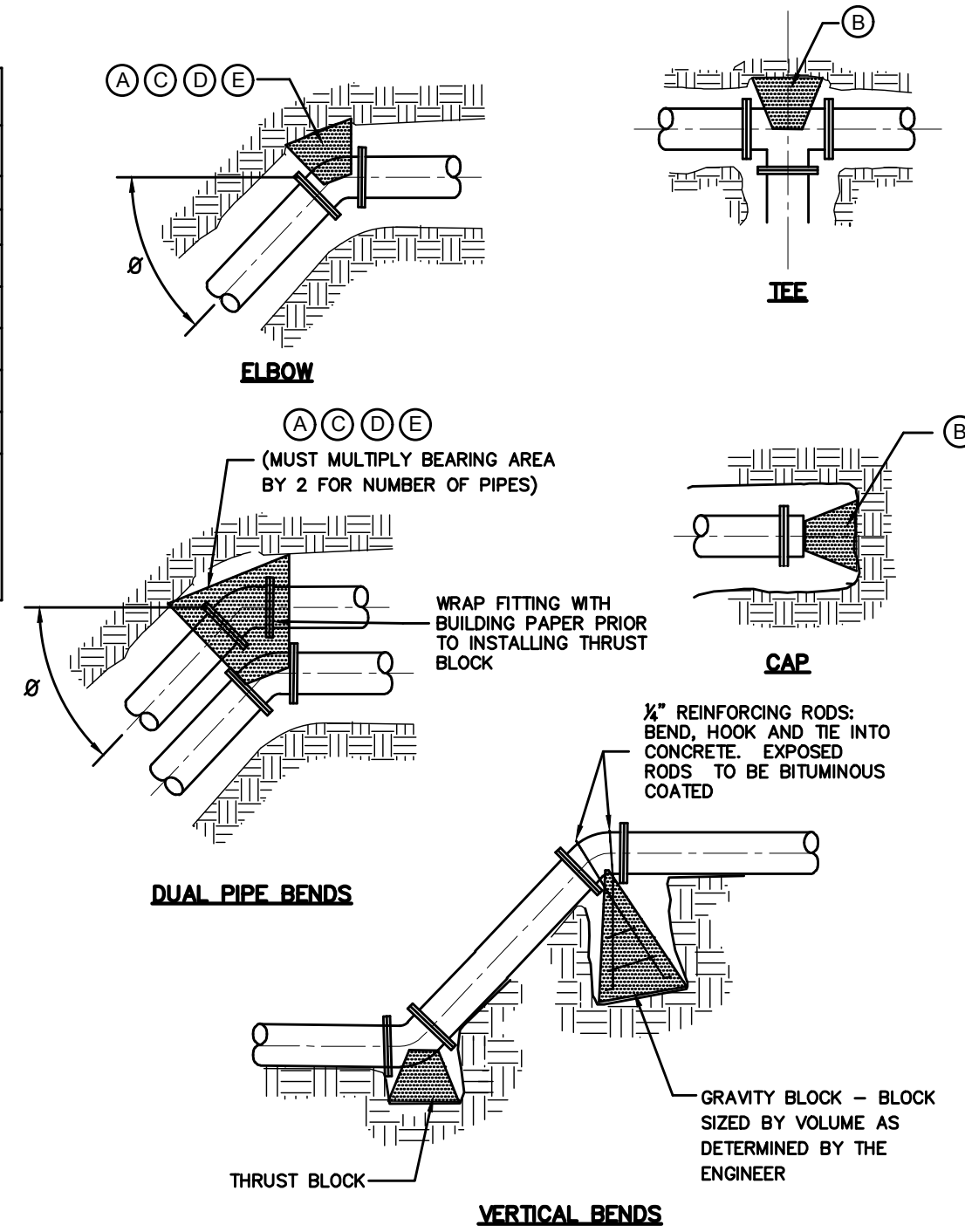
TYPICAL AC PIPE CUT & CAP DETAIL
NOT TO SCALE

SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL									
AREAS SHOWN ARE BASED ON 200 PSI TEST PRESSURE (SEE NOTE BELOW)									
REACTION TYPE	4"	6"	8"	10"	12"	16"	18"	24"	
90° BEND	1.8	4.4	7.8	11.2	17.2	30.8	36.0	69.2	
TEE OR CAP	1.4	3.2	5.6	8.4	12.2	21.8	27.8	49.5	
45° BEND	1.0	2.4	4.2	6.0	9.4	16.6	19.4	37.6	
22½° BEND	0.6	1.2	2.2	3.0	4.8	8.6	10.0	19.2	
11¼° BEND	0.2	0.6	1.0	1.6	2.4	4.2	5.0	9.6	
OTHER TEST PRESSURES FOR THE ABOVE REACTIONS	SQUARE FEET OF CONCRETE THRUST BLOCKING FOR OTHER TEST PRESSURES IS DIRECTLY PROPORTIONAL TO THE ABOVE TABLE. FOR INSTANCE, AT 100 PSI TEST PRESSURE THE ABOVE NUMBERS ARE HALVED. THE ABOVE NUMBERS REPRESENT MINIMUM ALLOWABLE SIZES FOR THRUST BLOCKS								

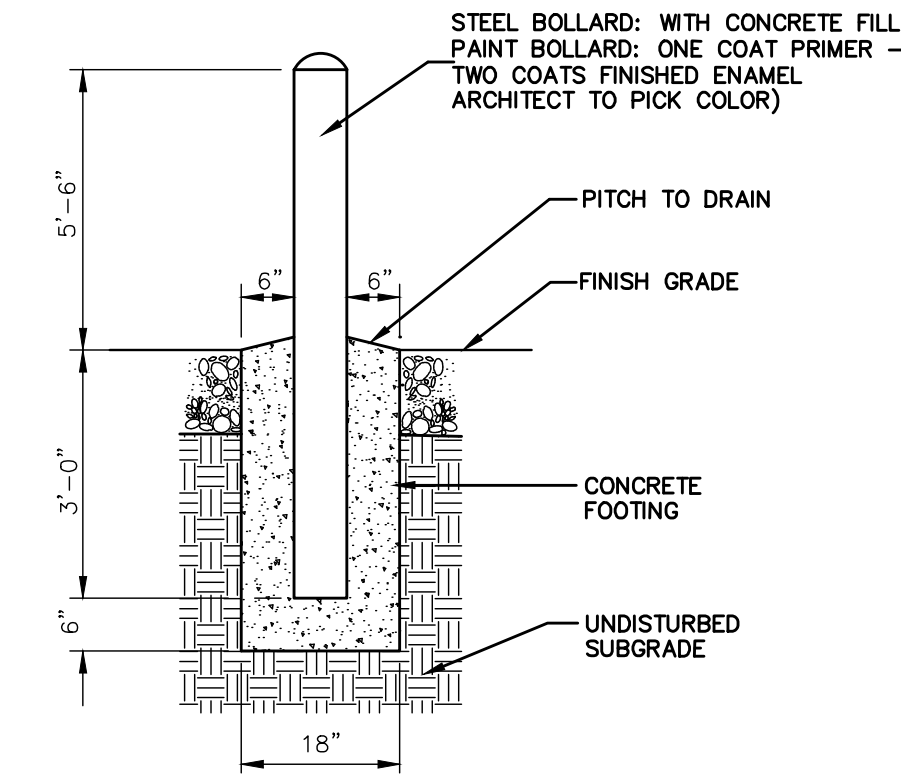
- NOTES:
1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
 2. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING. PLACE BOARD IN FRONT OF ALL CAPS BEFORE POURING THRUST BLOCK.
 3. REQUIREMENTS OF THE ABOVE TABLE PRESUME MINIMUM SOIL BEARING OF ONE TON PER SQUARE FOOT, AND MAY BE VARIED BY THE ENGINEER TO MEET OTHER CONDITIONS ENCOUNTERED.
 4. TEST PRESSURE FOR WATER MAINS SHALL BE 200 PSI.



MINIMUM THRUST BLOCK DIMENSION REQUIREMENTS

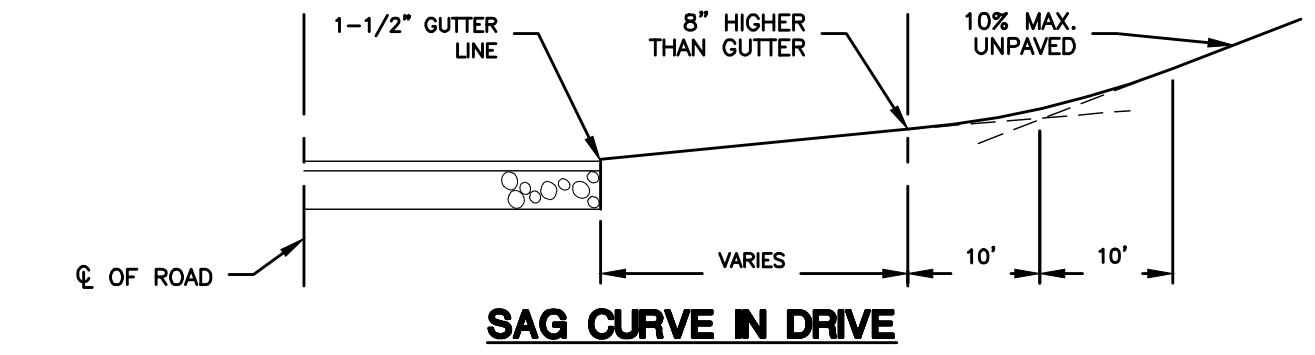


THRUST BLOCK DETAILS & DIMENSIONS
NOT TO SCALE

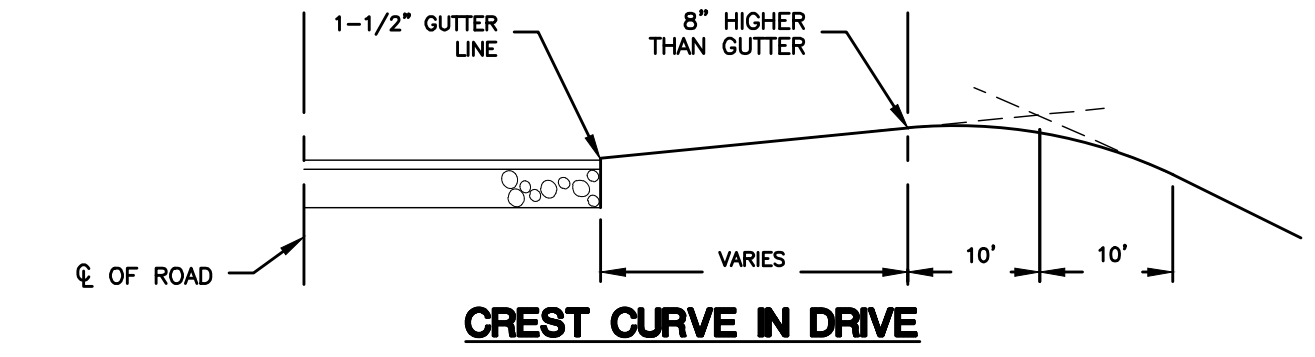


BOLLARD DETAIL
NOT TO SCALE

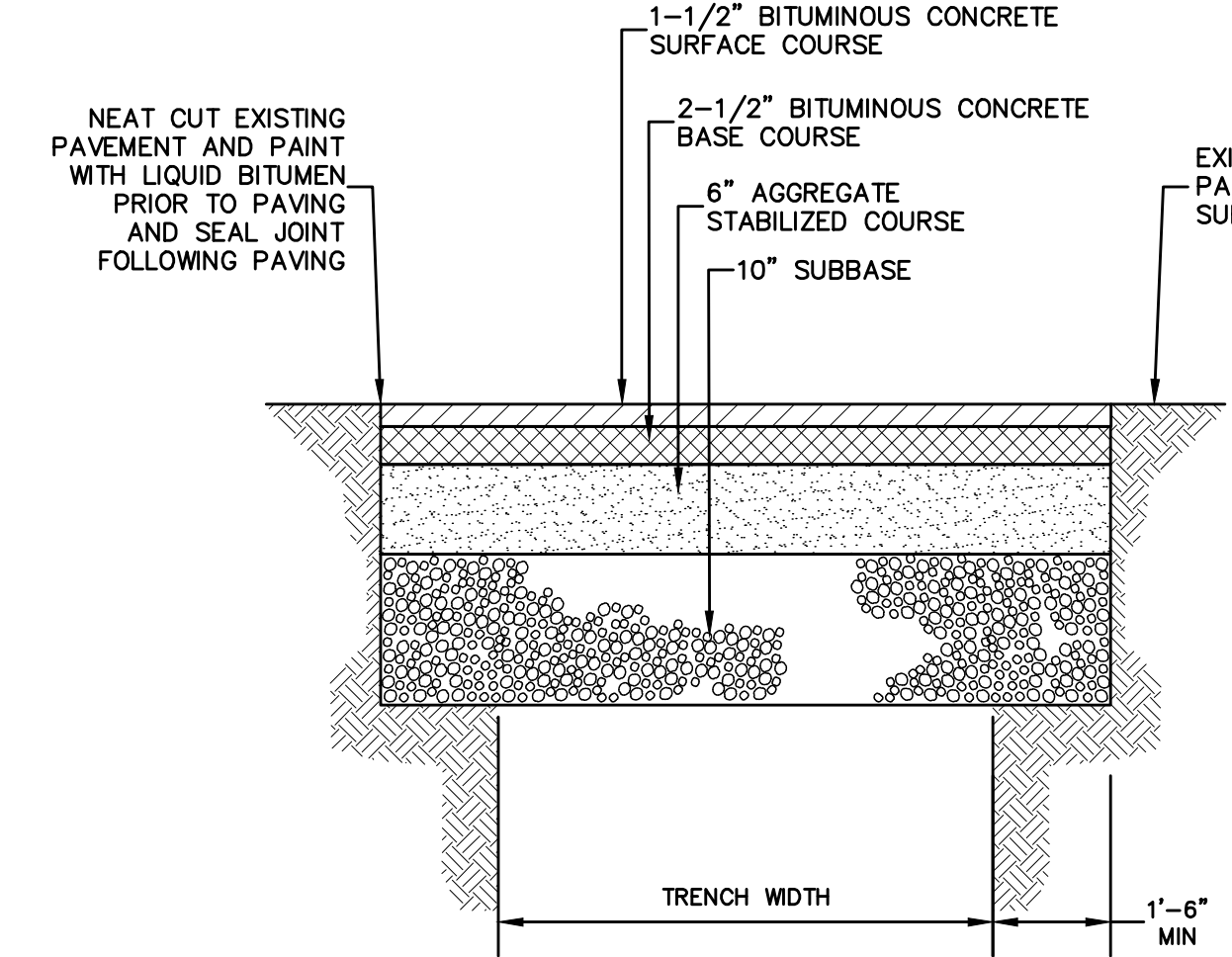
- NOTE:
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM 15' WIDE TRAVEL WAY AT ROAD CROSSINGS AT ALL TIMES DURING CONSTRUCTION.



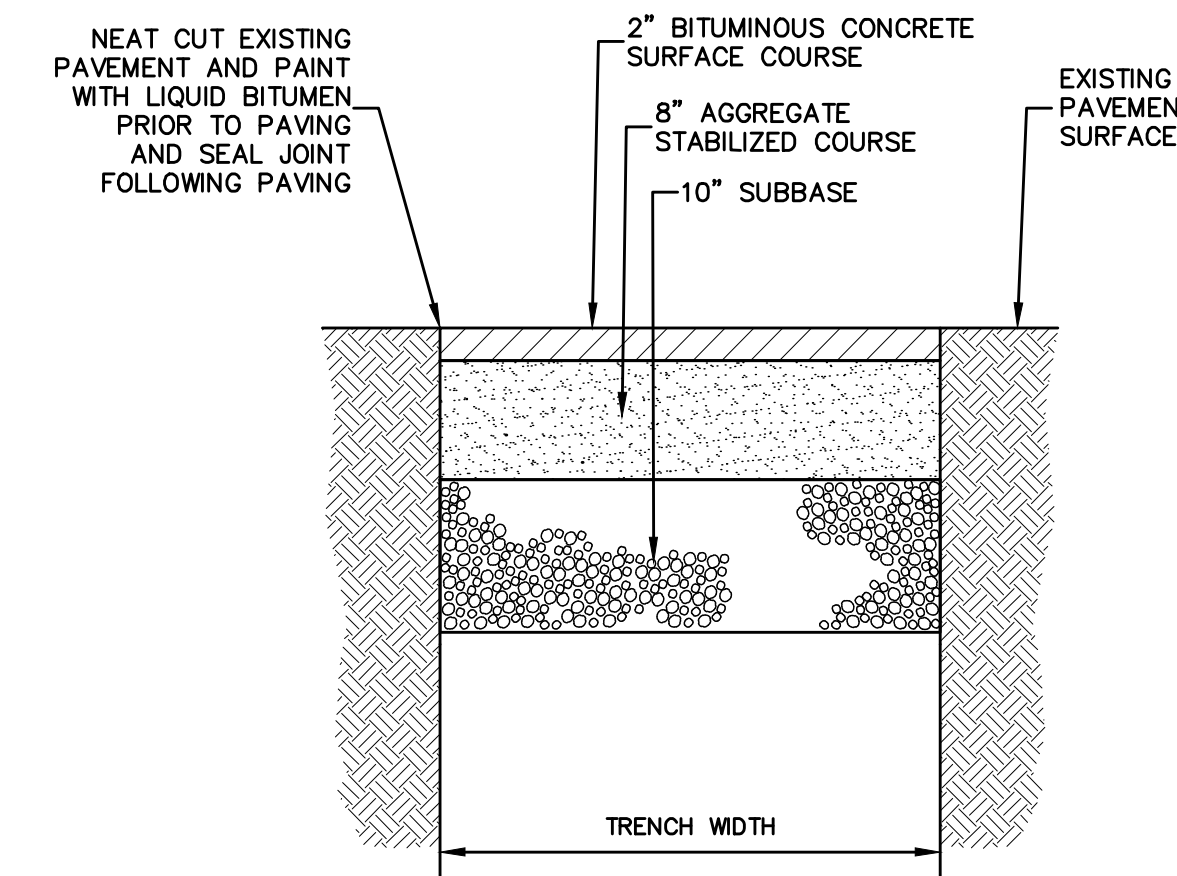
SAG CURVE IN DRIVE



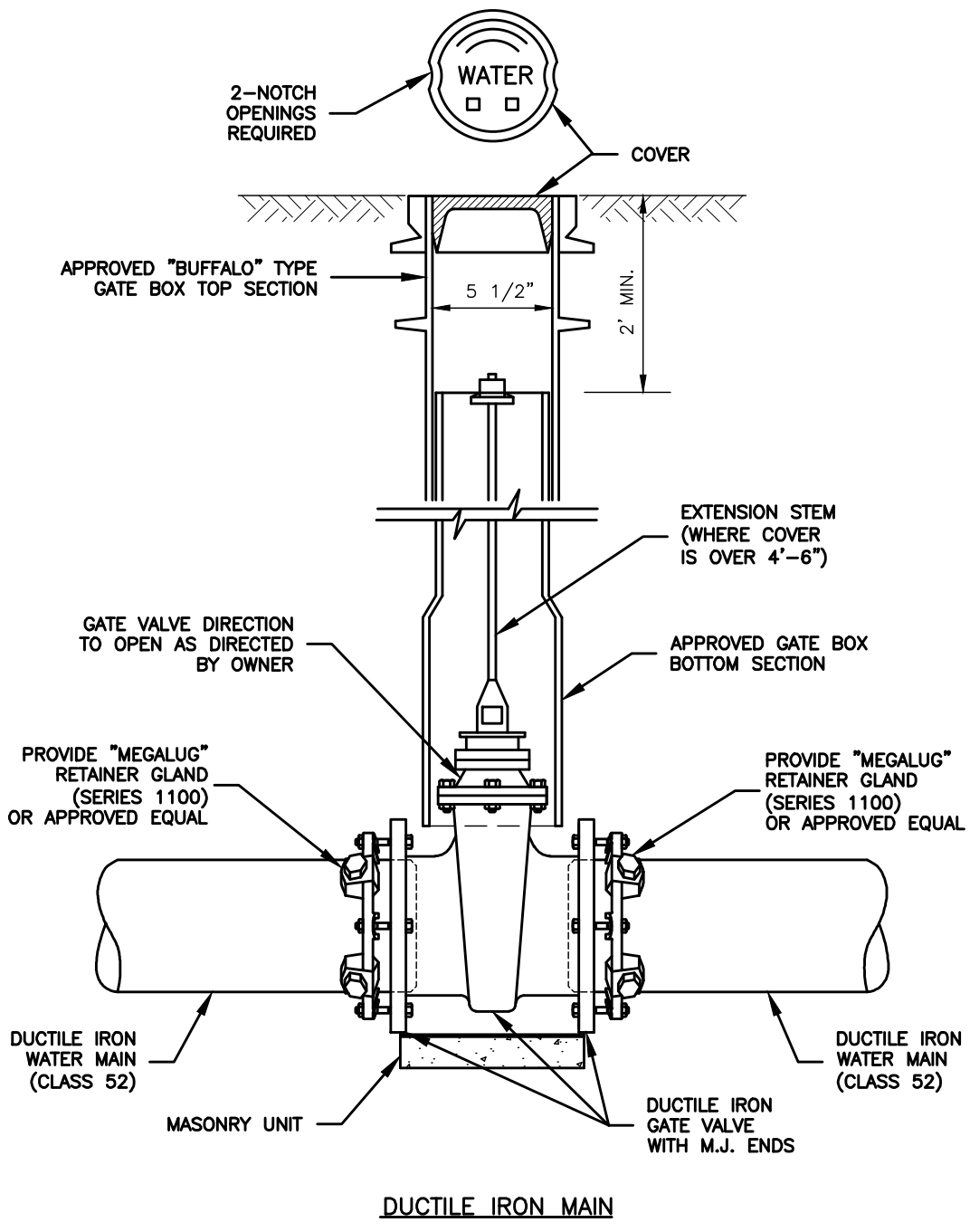
CREST CURVE IN DRIVE



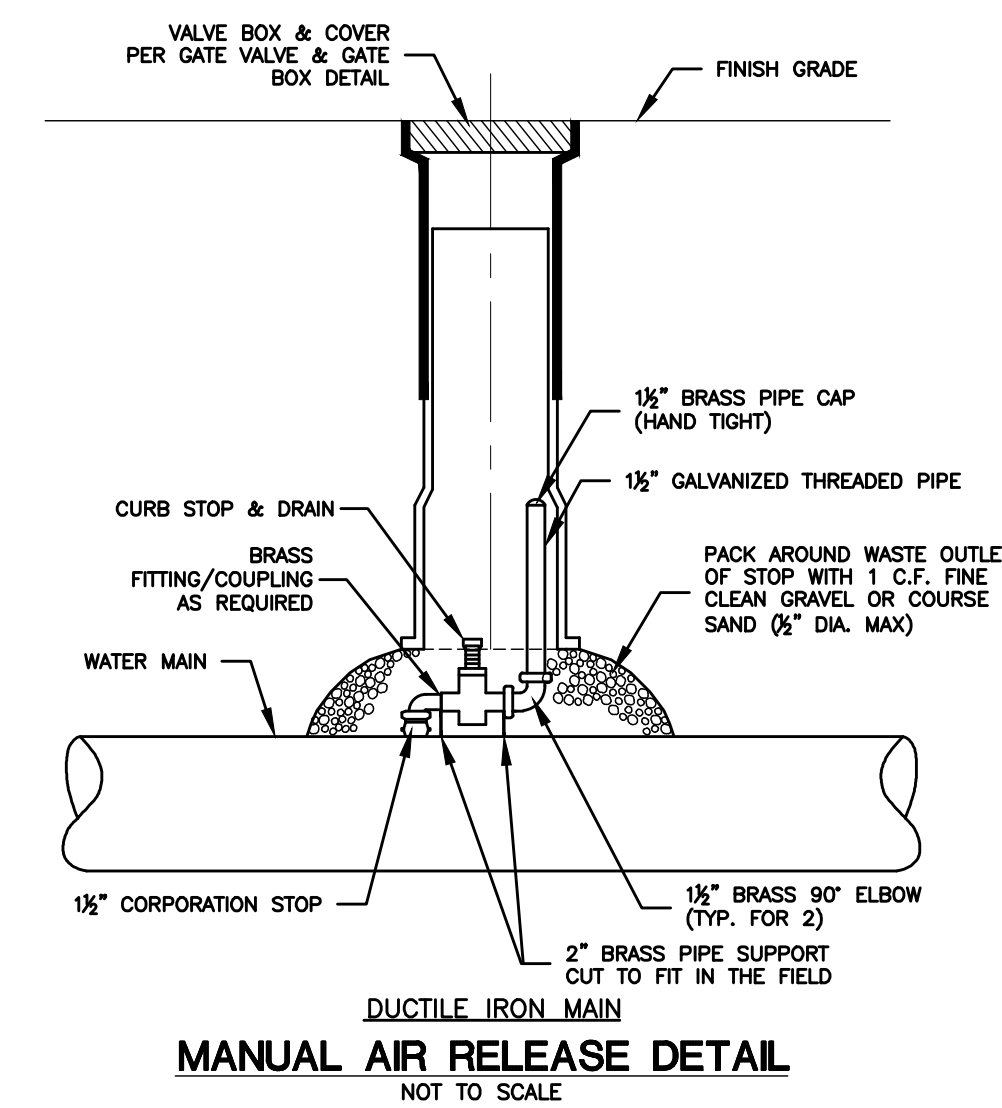
PERMANENT PAVEMENT REPAIR
NOT TO SCALE



TEMPORARY PAVEMENT REPAIR
NOT TO SCALE



12\"/>



MANUAL AIR RELEASE DETAIL
NOT TO SCALE

GREEN SITE DESIGN LLC			317 Main Street Norwich, Connecticut (860) 892-1380 Fax (860) 886-9165	
MONTVILLE, CT			Project No. GSD-68	
69 FITCH HILL RD & LEFFINGWELL RD			Proj. Engineer E.M.B.	
WATER & ROAD DETAILS			Date: 2/15/23	
			Sheet No. 14	

1 6/22/23 REVIEW COMMENTS

No. DATE REVISION