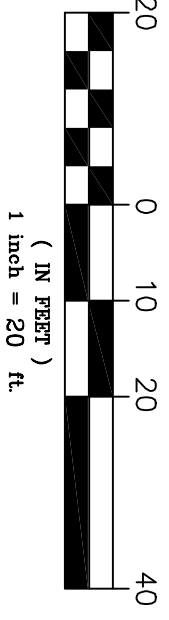
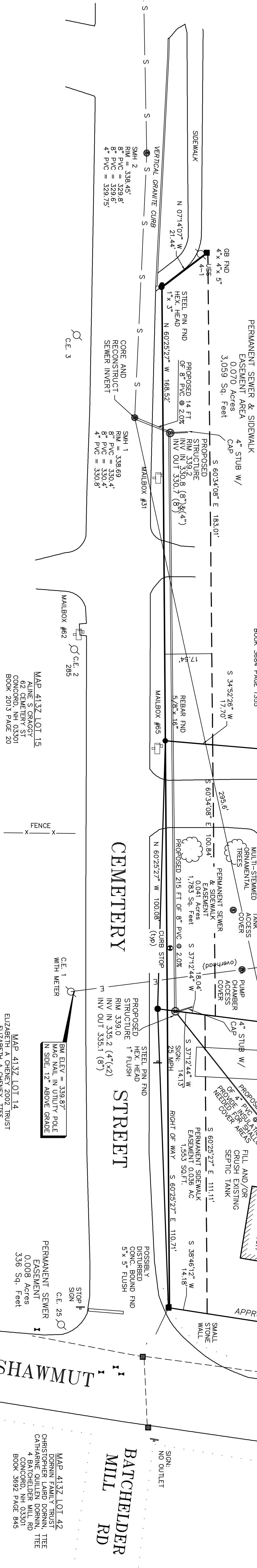


- REFERENCE PLANS
1. CONCORD STREET LAYOUT SHEETS 158 & 159, ON FILE WITH THE CITY OF CONCORD, ENGINEERING DEPARTMENT
 2. "SHAWMUT STREET STORM DRAIN" SCALE 1"=40', DATED JUNE 1975, ON FILE WITH THE CITY OF CONCORD, ENGINEERING DEPT. PERM. PLAN NO. 1770
 3. "SHAWMUT STREET STORM DRAIN" SCALE 1"=40', REVISED 10/17/1975, ON FILE WITH THE CITY OF CONCORD, ENGINEERING DEPT. PERM. PLAN NO. 1770
 4. "BOUNDARY SURVEY FOR ROBERT & LOREANE MATCHA, CEMETERY ST, CONCORD, NH" PREPARED BY RICHARD D. BARILETTI, DATED NOVEMBER 1973 AND RECORDED IN THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN 5843
 5. "ZONING PLAN PREPARED FOR MARK D. & DAVID C. CHAMBERLIN LOCATED IN CONCORD, NH" PREPARED BY RICHARD D. BARILETTI, DATED JANUARY 1986 AND RECORDED IN THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN 8762
 6. "RESUBDIVISION PREPARED FOR MADELINE A. WILLIAMS" SCALE 1"=20', PREPARED BY RICHARD D. BARILETTI, DATED MAY 6, 1986 AND RECORDED IN THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN 8907

LEGEND

- EDGE OF PAVEMENT
- OVERHEAD UTILITIES
- PROPOSED GAS VALVE
- PROPOSED GAS SURVICE
- PROP. UNDERGROUND UTILITIES
- PROP. TRANSFORMER
- PROPOSED WATER MAIN
- PROPOSED CURB STOP
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED SEWER LINE
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT



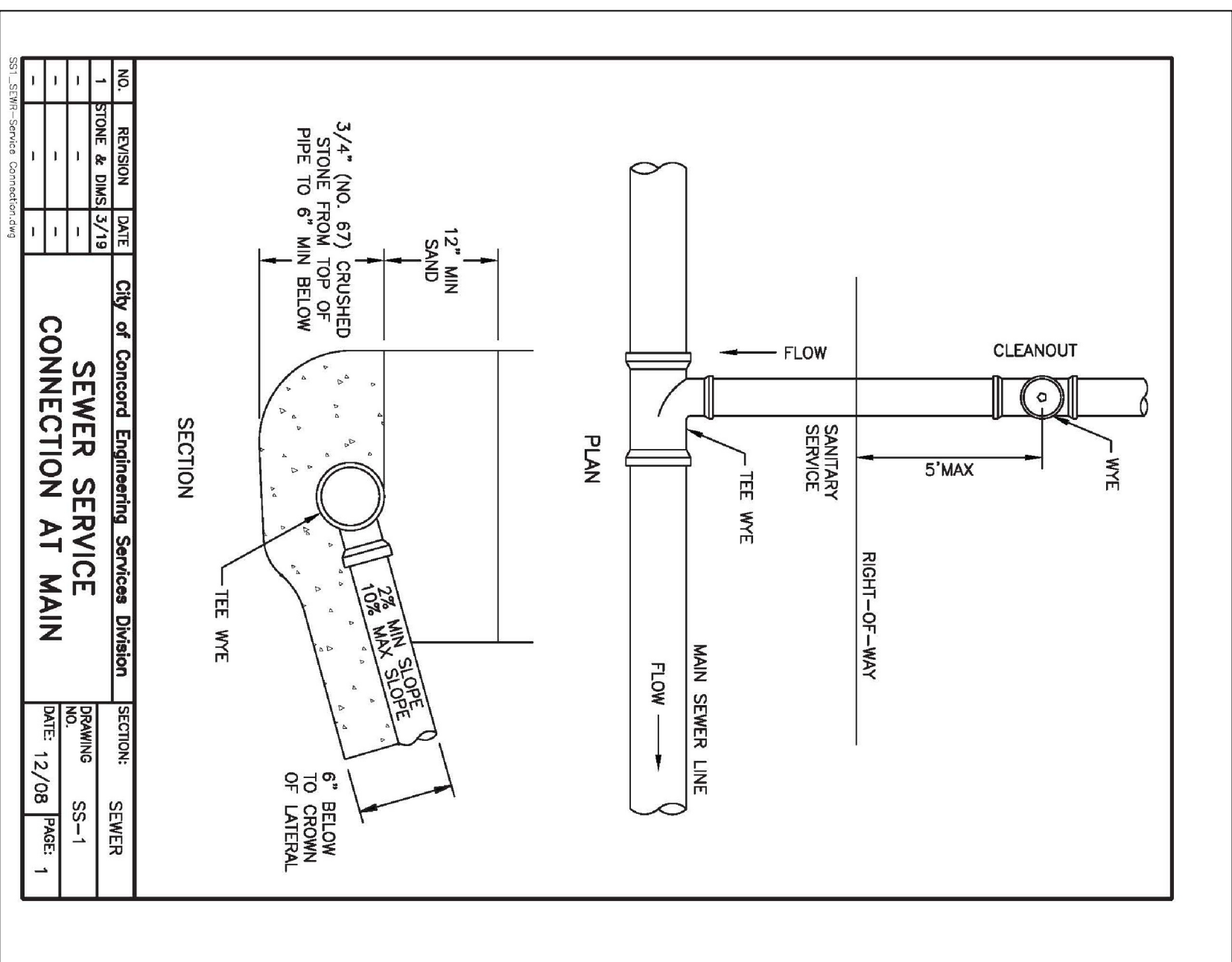
OWNER OF RECORD:
TRENT SPINER
69 SHAWMUT ST
CONCORD, NH 03301-8614
BOOK 3172 PAGE 1080

PROPOSED UTILITY PLAN
TAX MAP 413Z LOT 32
69 SHAWMUT ST
CONCORD, NH
MERRIMACK COUNTY

REVISIONS		DATE	
DESCRIPTION	DWN BY	CK BY	
EDITS TO PLAN PER CITY COMMENTS	JR	JR	7-18-25

ROKEH CONSULTING, LLC
89 KING ROAD, CHICHESTER, NH
PH: 603-587-8688

SCALE: 1" = 20'
DATE: JULY 10, 2025
DR. BY: JR
JOB NO.
SHEET
3 OF 6



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION	SEWER
1	STONE & DIMS 3/19			DRAWING	SS-1
				NO. 12	12/08
				DATE	12/08
				PAGE	1

SEE SHEET 31722 FOR INFORMATION

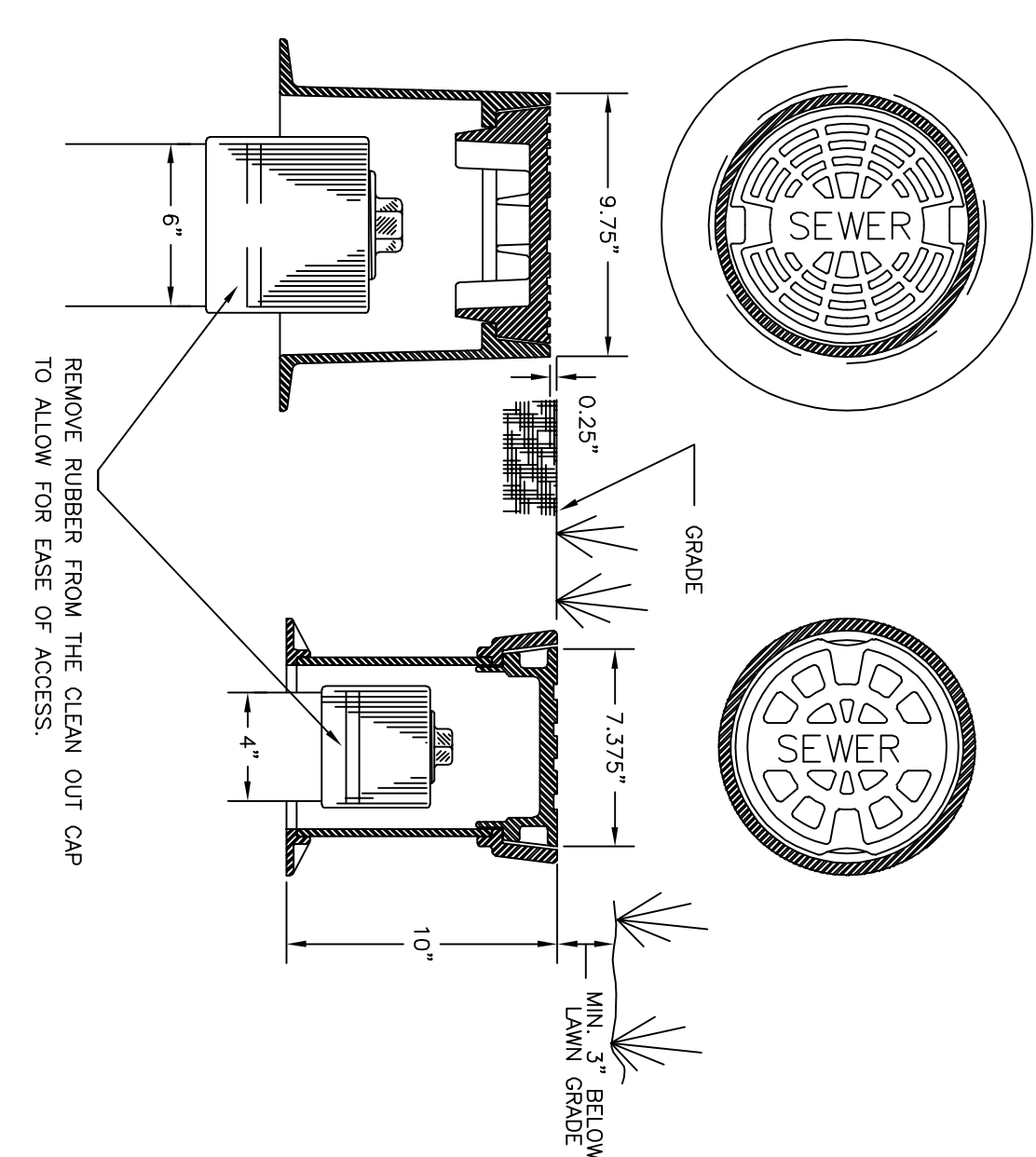
CONSTRUCTION NOTES:

- ALL WORK PERFORMED WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF CONCORD AND NHDOT CONSTRUCTION STANDARDS.
- DISSAFE TO BE NOTIFIED PRIOR TO CONSTRUCTION
- THROUGHOUT THE DURATION OF THE PROJECT TO BE MAINTAINED
- WHEN UNDERGROUND UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCY TO REQUEST PROPER CONSTRUCTION PROCEDURE IN THAT AREA. ANY DAMAGE TO A UTILITY IS TO BE REPORTED TO AND REPAIRED BY THAT UTILITY PRIOR TO BACKFILLING.
- PRIOR TO THE START OF CONSTRUCTION A PRECONSTRUCTION MEETING WITH THE CITY MUST BE CONDUCTED.
- IN CONFLICTS REQUIRING THE RELOCATION OF UTILITIES, PREFERENCE SHALL: (1) BE GIVEN TO UTILITIES WITH GRADE RESTRICTIONS, (2) BE GIVEN TO EXISTING UTILITIES ALREADY IN SERVICE.
- PRIOR TO THE START OF CONSTRUCTION, PLEASE COORDINATE WITH THE CONCORD ENGINEERING DIVISION, FOR ON SITE INSPECTION AND ASSOCIATED FEES FOR THE ABOVE MENTIONED PROJECT.
- WORK WITHIN THE CITY RIGHT-OF-WAY WILL REQUIRE AN EXCAVATION PERMIT CONTACT THE ENGINEERING DIVISION
- ALL DISCONTINUED OR ABANDONED UTILITIES SHALL BE REMOVED FROM THE ROADWAY, ALL ABANDONED PIPE PENETRATIONS TO BE PLUGGED AND SEALED WITH MORTAR.

PROJECT TO BE CONSTRUCTED USING METHODS OUTLINED BY THE LATEST CITY OF CONCORD STANDARDS AND DETAILS

MANHOLE TESTING PER CONCORD CONSTRUCTION STANDARDS

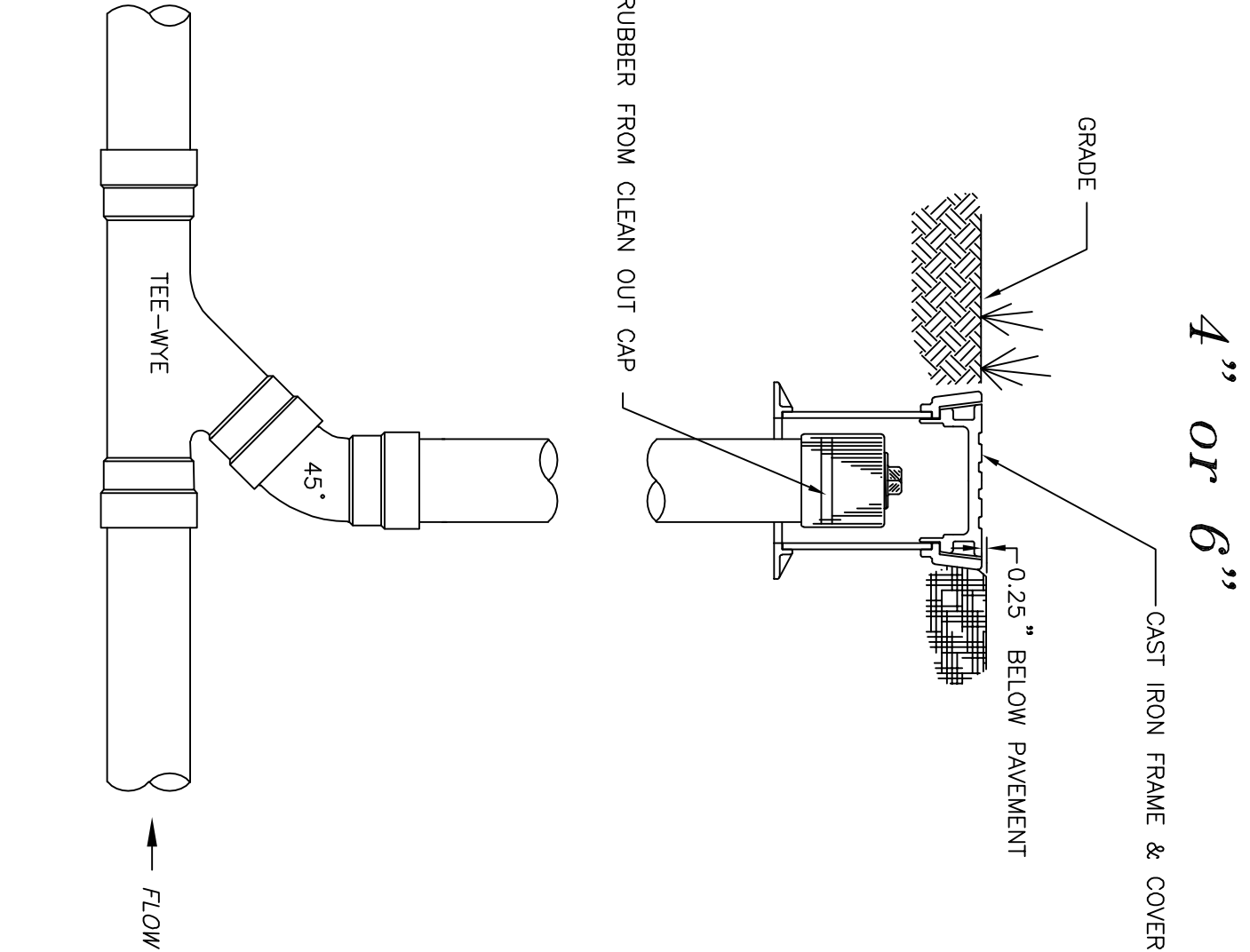
- THE MANHOLE VACUUM TEST SHALL IN ACCORDANCE WITH ASTM C1244 AND CONFORM TO THE FOLLOWING:
 - THE INITIAL VACUUM GAUGE TEST PRESSURE SHALL BE 10 INCHES HG. AND
 - THE MINIMUM ACCEPTABLE TEST HOLD TIME FOR A 1-INCH HG PRESSURE DROP TO 9 INCHES HG SHALL BE: 2 MINUTES FOR MANHOLES LESS THAN 10 FEET DEEP IN DEPTH; 2 MINUTES FOR MANHOLES 10 TO 15 FEET DEEP; AND C. NOT LESS THAN 3 MINUTES FOR MANHOLES MORE THAN 15 FEET DEEP.
- THE MANHOLE SHALL BE REPAIRED AND RETESTED IF THE TEST HOLD TIMES FAIL TO ACHIEVE THE ACCEPTANCE LIMITS SPECIFIED ABOVE.
- FOLLOWING COMPLETION OF THE LEAKAGE TEST, THE FRAME AND COVER SHALL BE PLACED ON THE TOP OF THE MANHOLE OR SOME OTHER MEANS USED TO PREVENT ACCIDENTAL ENTRY BY UNAUTHORIZED PERSONS, CHILDREN, OR ANIMALS. UNTIL THE MINIMUM SIZE PIPE FOR HOUSE SERVICE SHALL BE SIX INCHES @ 1% SLOPE
- SERVICES ARE ALLOWED AT 2% SLOPE
 - ELASTIC PIPE.
 - PVC SEWER PIPE AND FITTINGS SHALL CONFORM TO ASTM D2412 (SOR 35 MINIMUM), METHODS OF SHIPPING AND STORAGE ON SITE SHALL BE SUCH AS TO AVOID INJURY TO THE PIPE. DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.
- ALL FITTINGS SHALL BE INJECTION MOLDED FITTINGS, FABRICATED FITTINGS ARE NOT ALLOWED EXCEPT AS PERMITTED BY THE TOWN ENGINEER.
 - JOINTS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D3212. MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE FOLLOWED.
 - DUCTILE IRON PIPE.
 - DUCTILE IRON PIPE SHALL CONFORM TO AWWA C151 /A21.50 & A21.51; PRE SHALL HAVE EITHER THE RUBBER-RING TYPE, PUSH-ON JOINT, OR STANDARD MECHANICAL JOINT.
 - FORCE MAIN
 - HOPE FORCE MAIN SEWER PIPE SHALL CONFORM WITH ASTM D3035, PVC FORCE MAIN SHALL CONFORM WITH ASTM D2241 OR ASTM D1785, FORCE MAIN SHALL CONFORM WITH ENY-WQ 704.12 TO 704.17, MANHOLES MEETING THE REQUIREMENTS OF ENY-WQ 704.12
- GRAVITY SEWER PIPE TESTING PER CONCORD CONSTRUCTION STANDARDS
 - ALL NEW GRAVITY SEWERS SHALL BE TESTED FOR WATER TIGHTNESS BY THE USE OF LOW-PRESSURE AIR TESTS.
 - LOW-PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH:
 - A. ASTM F1417 STANDARD TEST METHOD FOR INSTALLATION OF LOW-PRESSURE AIR TEST, OR
 - B. UNI-BELL PVC PIPE ASSOCIATION UNI-B-6, "LOW-PRESSURE AIR TESTING OF INSTALLED SEWER PIPE"
 - ALL NEW GRAVITY SEWERS SHALL BE CLEANED AND VISUALLY INSPECTED PRIOR TO TESTING. THE INSPECTION SHALL BE CONDUCTED PRIOR TO DESIGNING THAT THERE IS NO STANDING WATER IN THE SEWER, AND TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR USE.
 - ALL PLASTIC SEWER PIPE SHALL VISUALLY INSPECTED AND DEFECTIVE NOT EXS THAN 30 DAYS FROM MORE THAN 90 DAYS FOLLOWING THE INSTALLATION.
 - THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5 PERCENT OF AVERAGE INSIDE DIAMETER. A RIGID BALL AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES.



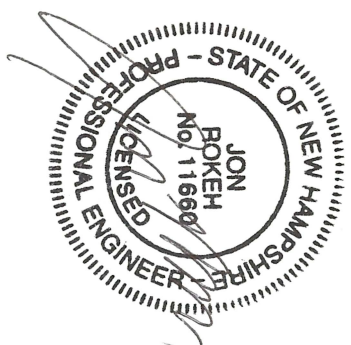
CLEANOUT COVERS

6" OR 4"

CLEAN OUTS ON SERVICE LATERALS

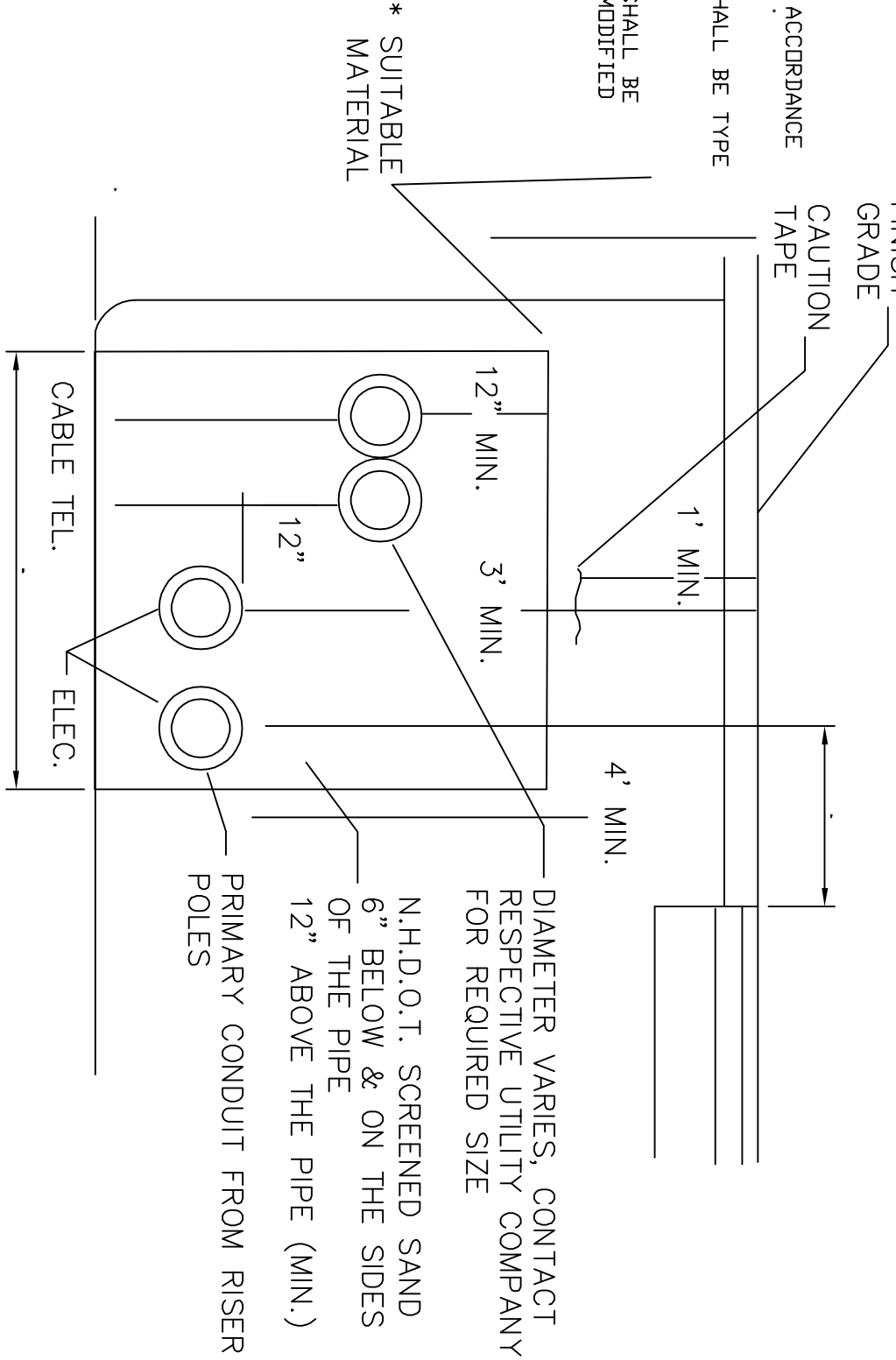


REFERENCE: "STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWERAGE AND WASTE WATER TREATMENT FACILITIES", DEPT OF ENVIRONMENTAL SERVICES.



SEWER MANHOLE NOTES:

- IT IS THE INTENTION THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE REQUIREMENTS AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. MANHOLES MAY BE AN ASSEMBLY OF PRECAST SECTIONS WITH STEEL REINFORCEMENT WITH REINFORCEMENT. IN ANY APPROVED MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF 9 TONS (4+20 LIDDING WITHOUT FAILURE AND PREVENT LEAKAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF MANHOLE, CONTINUOUSLY FOR THE LIFE OF THE MANHOLE. MANHOLE STRUCTURES SHALL HAVE A LIFE IN EXCESS OF 25 YRS.
- PRECAST CONCRETE MANHOLES SHALL CONFORM WITH ASTM C478 PER ENY-WQ 704.13 (A)(3). BARRELS AND CONE SECTIONS SHALL BE REINFORCED CONCRETE PER ENY-WQ 704.12(a). PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL CONFORM TO ASTM C478. ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME TRADEMARK OF THE MANUFACTURER OF THE MANHOLE SHALL BE INDICATED ON THE MANHOLE. THE MANHOLE BASE SECTIONS SHALL BE MANHOLE THICK TO PRINT AT LEAST 6" ABOVE THE CROWN OF INCOMING PIPE PER ENY-WQ 704.12(a).
- ALL SEWERS, MANHOLES AND FOREBAYS SHALL BE TESTED FOR WATER TIGHTNESS BY USE OF EITHER WATER OR LOW PRESSURE AIR TESTS. LOW PRESSURE AIR TESTS SHALL CONFORM TO ASTM C828. SERVICES TO BE TESTED AT SAME TIME AS MAINS PRIOR TO BUILDING CONNECTION.
- INVERTS AND SHELVEIS, MANHOLES SHALL HAVE A BRICK PAVED SHELVE AND INVERT CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN DIRECTION THE INVERTS SHALL BE LINED OUT IN CURVES OF THE LONGEST RADIUS. THE INVERTS SHALL BE LINED OUT IN STRAIGHT LINES. THE INVERTS SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELVE SHALL CONSIST OF BRICK MASONRY, INVERTS AND SHELVE SHALL BE PLACED AFTER TESTING ALL BRICK MASONRY FOR SHELVE, INVERT AND SHELVE SHALL BE PLACED COMPLETELY WITH ASTM C32, CLAY OR SHALE FOR GRADE BRICK MASONRY SHALL CONFORM WITH ASTM C32 PER ENY-WQ 704.13 (A)(3). METAR SHALL CONFORM WITH ENY-WQ 704.13 (C). UNDERLAYMENT OF MANHOLE INVERT AND SHELVE SHALL BE BRICK MASONRY PER ENY-WQ 704.12(c)
- BEHIND/SCREENED CRUSHED STONE FREE FROM CLAY, LDM, ORGANIC MATTER AND MEETING ASTM C33
 - 0-10% PASSING #4 SIEVE
 - 100% PASSING 1 INCH SCREEN
 - 90% PASSING 3/4 INCH SCREEN
 - 0- 5% PASSING #80 SIEVE
 - 20-55% PASSING 3/8 INCH SCREEN
 - 0% PASSING #200 SIEVEWHEN ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR 1.5 INCH CRUSHED STONE SHALL BE USED.
- FLEXIBLE JOINT: A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES FROM MANHOLE JOINTS:
 - FOR CI PIPE - ALL SIZES - WITHIN 60'
 - PVC GREATER THAN 15' - WITHIN 48'
- SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H-20 LOADS.
- HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF OVERLAPPING TYPE, WHICH SHALL DEPEND FOR WATER TIGHTNESS UPON AN ELASTOMERIC OR MASTIC-LIKE SEALANT.
- PIPE TO MANHOLE JOINTS SHALL BE ELASTOMERIC, RUBBER SLEEVE WITH WATER TIGHT JOINTS AT THE MANHOLE OPENING AND OPENING SURFACES, CAST INTO THE WALL OR SECURED WITH STAINLESS STEEL CLAMPS. ELASTOMERIC SEALING RING SHALL BE ELASTOMERIC, REINFORCED WITH STEEL. THE SURFACE OF THE SEALING RING AND THE RING AND INSIDE SURFACES OF THE JOINTS WHERE WATER TIGHT BONDING TO THE MANHOLE AND PIPE CAN BE OBTAINED.
- FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75 % OF THE JOINT CAVITY APPROVED BY THE TOWN ENGINEER.
- RAW - NEK KENT SEAL NO. 2 DOUBLE ROLL
- ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
- MORTAR SHALL CONFORM WITH ENY-WQ 704.13 MORTAR SHALL BE TYPE I/II PORTLAND CEMENT
- UNLESS OTHERWISE NOTED ALL GRANULAR MATERIAL SHALL BE PLACED IN 12" LIFTS AND COMPACTED TO 95% OF THE MODIFIED PROCTOR TEST.
13. STEPS ARE NOT ALLOWED



- NOTES:
- UTILITIES SHALL BE INSTALLED ACCORDING TO THE RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - ALL ABOVE GRADE UTILITIES MUST BE PLACED OUT OF THE R.O.W. AND IN AREAS THAT WILL NOT CONFLICT WITH THE ROADWAY DRAINAGE SYSTEM. PLACEMENT OF TRANSFORMERS CANNOT CONFLICT WITH THE INSTALLATION OF R.O.W. AND PROPERTY CORNER MONUMENTS.

UNDERGROUND UTILITIES TRENCH

NOT TO SCALE

OWNER OF RECORD:

TRENT SPINER

69 SHAWMUT ST
CONCORD, NH 03301-8614
BOOK 3172 PAGE 1080

PROPOSED UTILITY PLAN

TAX MAP 413Z LOT 32

69 SHAWMUT ST
CONCORD, NH
MERRIMACK COUNTY

REVISIONS

DATE	DWN BY	CK BY

ROKEH CONSULTING, LLC
89 KING ROAD, CHICHESTER, NH
PH: 603-387-8688

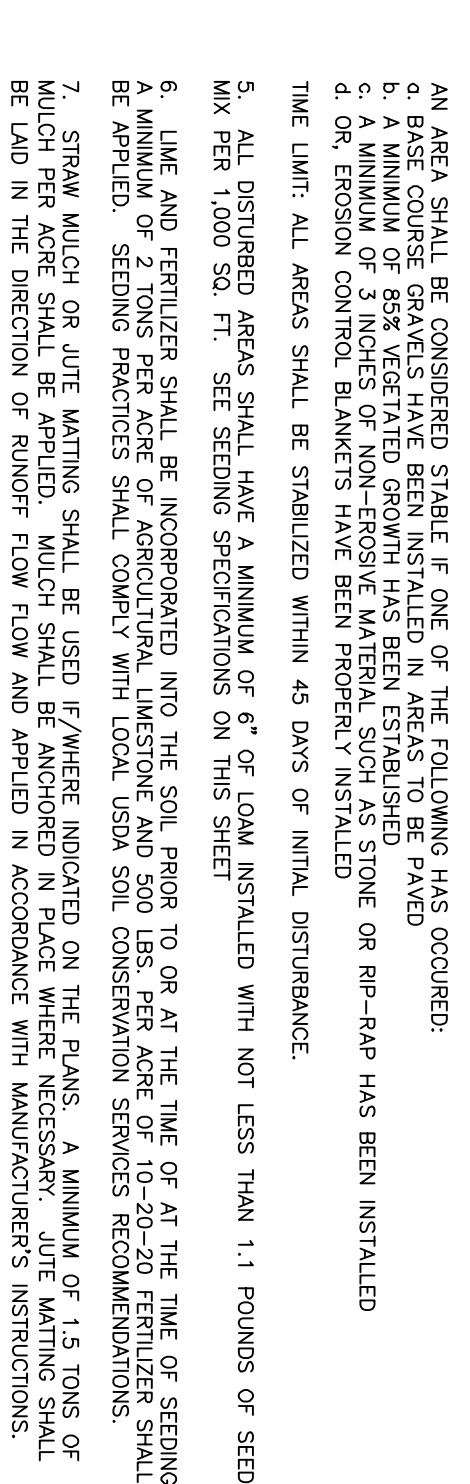
SCALE: 1" = 40'
DATE: JULY 10, 2025
DR. BY: JR
JOB NO.
SHEET
5 OF 6

EROSION CONTROL NOTES

- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS (EPA, FDOT, INDOT AND TOWN REGULATIONS). THE GENERAL NOTES AND DETAILS CONTAINED IN THIS PLAN SHALL BE A PART ONLY.
1. PERMEETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS. INSTALLATION OF STRAWBALE BARRIERS AND SILTATION FENCES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY SPECIFIC AREA. PERMEETER BARRIERS AND SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
 2. STRAWBALE BARRIERS AND SILTATION FENCES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES.
 3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
 4. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES OF ANY ONE TYPE. BEFORE DISTURBED AREAS ARE STABILIZED, ALL ROWWAYS SHALL BE STABILIZED WITHIN 72 HOURS OF FINISH GRADE. GRASS, LOG AND TILL SOILS SHALL BE LOADED & SEEDED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
 5. ANY AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - a. A MINIMUM OF 50% OF THE AREA HAS BEEN PLANTED
 - b. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
 - c. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED
 - d. OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED
 - THE LIMIT: ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
 5. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LDM INSTALLED WITH NOT LESS THAN 1.1 POUNDS OF SEED PER 1,000 SQ. FT. SEE SEEDING SPECIFICATIONS ON THIS SHEET.
 6. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF SEEDING. SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE TIME OF SOIL CONSERVATION SERVICES RECOMMENDATIONS BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
 7. STRAW MULCH OR JUTE MATTING SHALL BE USED IF/WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH OR JUTE MATTING SHALL BE USED PER ACRE OF DISTURBED AREA.
 8. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDS ARE PLANTED, THE COVER SHALL BE REMOVED AS SOON AS THE SEEDS HAVE ESTABLISHED THEMSELVES. NO DISTURBED AREAS SHALL BE LEFT EXPOSED DURING WINTER MONTHS.
 9. TO CONTROL SLEET DURING CONSTRUCTION, WATER DISTRIBUTION SHALL BE USED.
 10. TEMPORARY SEDIMENT TRAPS AND/OR BASINS ARE TO BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED. SEE DETAIL.
-
- ## WINTER CONSTRUCTION NOTES
-
1. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 95% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 2 TO 3 TONS OF MULCH PER ACRE. MULCH SHALL BE PLACED OVER THE SEEDS AND THE SEEDS SHALL BE COVERED WITHIN 14 DAYS OF SEEDING. NO SETTING SNOW WILL OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE

9. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 95% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS. THE SEEDING SHALL BE COMPLETED BY OCTOBER 15TH, AND THE EROSION CONTROL BLANKETS SECURED WITH ANCHORED NETTING, ELSEWHERE, THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- b. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 95% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CROUSED GRAVEL PER NHDTT ITEM 504.3.

DISTURBED



	POUNDS/ACRE	POUNDS/1,000 SF
MIXTURE		
WARM SEASON GRASSES AND DROUGHTY CONDITIONS	20	0.45
TALL FESCUE		

PERMANENT SEEDING SPECIFICATIONS

1. SEEDBED PREPARATION
 - A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WASHING AWAY OF THE PLANTS.
 - B. STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 12 INCHES TO PREPARE A SEEDBED AND PER FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT AS FEASIBLE, FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS SLOPE, WHETHER FRONTAL, SLOPE OR BACKSLOPE.
 2. ESTABLISHING A STAND
 - A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. TYPES AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
 - AGRICULTURAL LIMESTONE: 2 TONS PER ACRE OR 0.09 LBS. PER SQ. FT.
 - NITROGEN (N): 50 LBS. PER ACRE OR 1.1 LBS. PER 1000 SQ. FT.
 - PHOSPHATE (P₂O₅): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.
 - POTASH (K₂O): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.
 - B. NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OR 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10
- SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE

3 URBAN AT

- C. REFERR TO TABLE 7-55 OF "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN DEVELOPING AREAS IN NEW HAMPSHIRE" FOR APPROPRIATE SEED MIXTURES AND TABLE 7-36 FOR RATES OF SEEDING. ALL SEEDS (GRASSSEED, BROODSTOCK REFILL, AND PLANTER), MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.
- D. WHEN SEEDS ARE NOT MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER, WHEN SEEDS AREAS ARE NOT MULCHED. PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
3. MULCH
 - A. STRAW, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
 - B. MULCH WILL BE HELD IN PLACE USING TECHNIQUES FROM THE "BEST MANAGEMENT PRACTICE FOR LULCHING", AS SHOWN IN "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE."
4. MAINTENANCE TO ESTABLISH A STAND
 - A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WOOD GROWTH.

USUALLY
3 YEARS

SUBJECT INDEX

REVISIONS

DWIN BT CK D

69 SHAWMUT ST
CONCORD, NH
MERRIMACK COUNTY

REVISIONS

89 KING ROAD CHICHESTER NH

JOB NO.

DATE: JULY
DR. BY: JR
JOB NO.
SH
6 C

DATE: JULY
DR. BY: JR
JOB NO.
SH
6 C