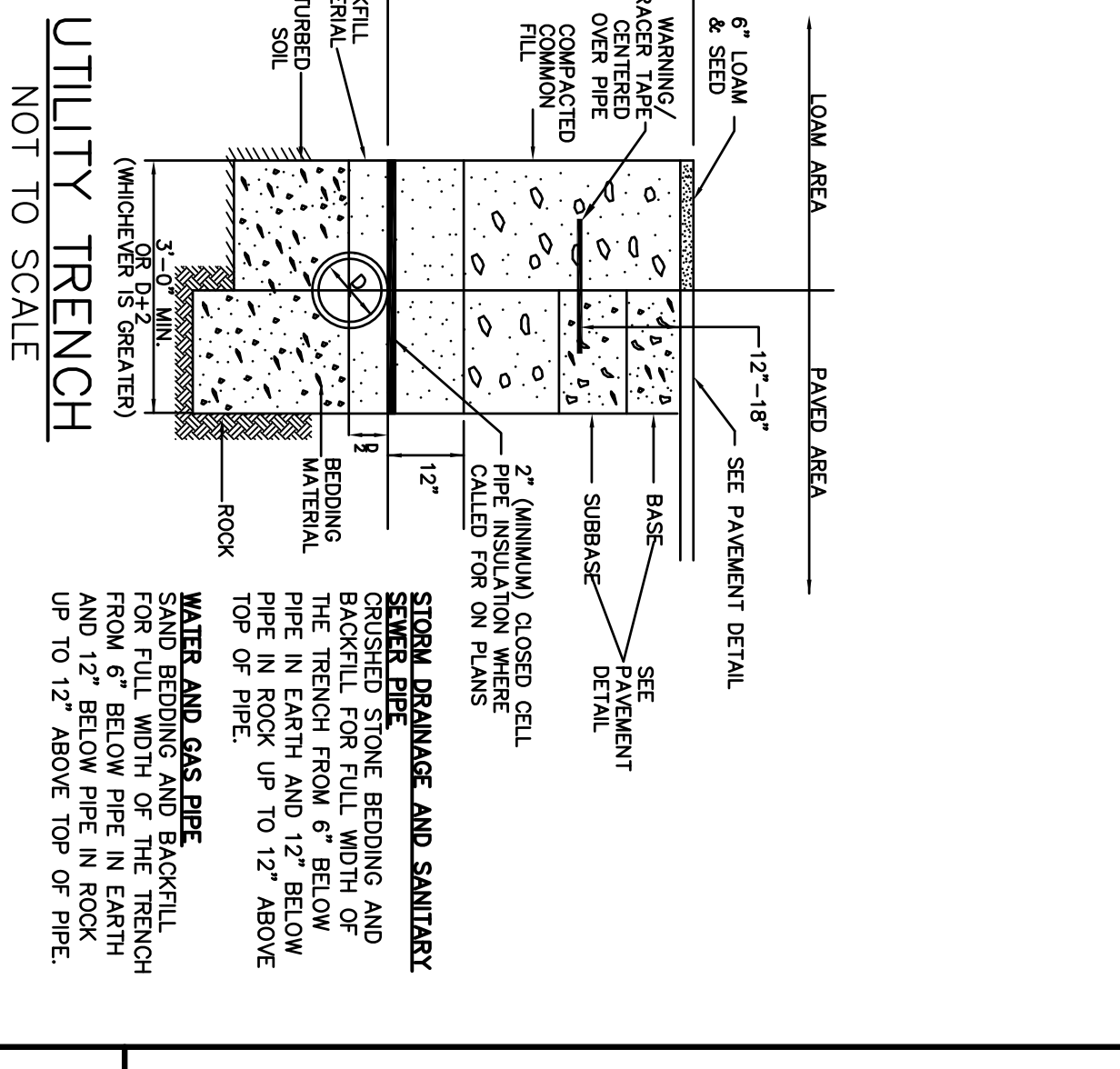


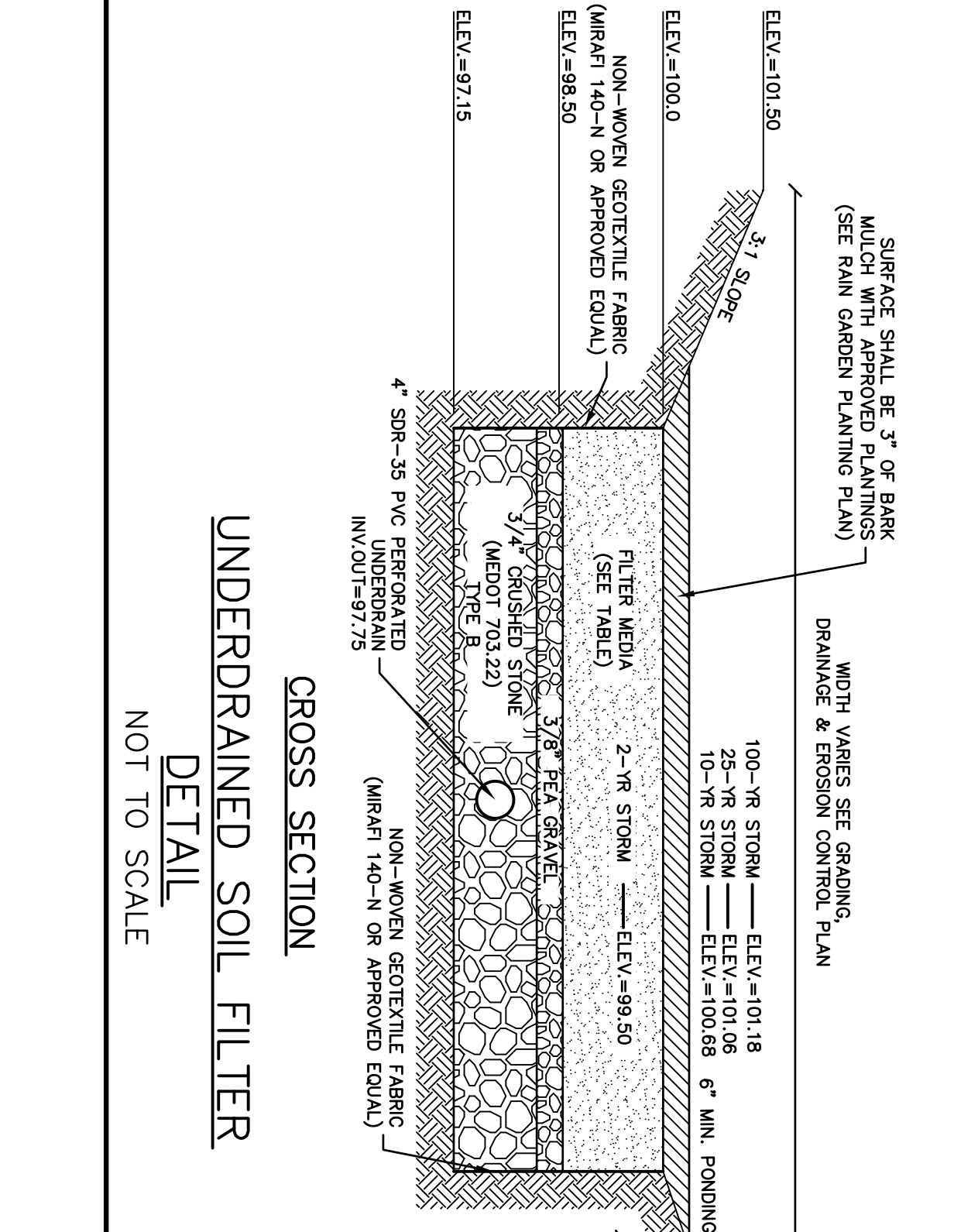
ELECTRICAL AND COMMUNICATION CONDUIT
NOT TO SCALE

- NOTES:**
1. NUMBER, MATERIAL & SIZE OF UTILITY CONDUITS TO BE DETERMINED BY LOCAL UTILITY OR AS UTILITY TO BUILDING DRAWINGS. CONTRACTOR TO PROVIDE ONE SPACE CONDUIT FOR EACH DIMENSION SHOWN REPRESENT OWNERS MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE DIMENSIONS BASED ON UTILITY COMPANY STANDARDS, BUT SHALL NOT BE LESS THAN THOSE.
 2. NO CONDUIT RUN SHALL EXCEED 360 DEGREES IN TOTAL BENDS.
 3. A SUITABLE PULLING STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE THE CONDUIT IS NOTED TO INSTALL CABLE. THE STRING SHOULD BE REMOVED FROM THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BENDING THE STRING TO THE CONDUIT.
 4. UTILITY COMPANY MUST BE GIVEN THE OPPORTUNITY TO INSPECT THE CONDUIT PRIOR TO BACKFILL. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS SHOULD THE UTILITY COMPANY REQUEST INSPECTION. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND WHERE APPLICABLE, ALL APPLICABLE ELECTRICAL CODES.
 5. ALL CONDUITS SHALL BE MADE USING RIGID GALVANIZED STEEL. SWEERS WITH A .56 TO .48 INCH RADIUS.



UTILITY TRENCH
NOT TO SCALE

- NOTES:**
1. SEE PAVEMENT DETAIL.
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UNDERDRAINED SOIL FILTER
NOT TO SCALE

- NOTES:**
1. BARK MULCH SHALL BE A MINIMUM OF 12 MONTHS AND SHALL NOT FLOAT.
 2. UNDERDRAINED SOIL FILTER SHALL NOT BE PLACED INTO SERVICE UNTIL THE PRACTICE HAS BEEN ESTABLISHED AND IS CONFORMING WITH NEAREST NEIGHBORHOOD STANDARDS.
 3. KEEP ALL EXCAVATION EQUIPMENT OUTSIDE OF THE LIMIT OF THE UNDERDRAINED SOIL FILTER.
 4. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR LOCATIONS, LAYOUTS, AND ELEVATIONS.
 5. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR LOCATIONS, LAYOUTS, AND ELEVATIONS.
 6. THE ESTIMATED SEASONAL HIGH WATER TABLE (ESHWT) IS NOT ANTICIPATED TO BE WITHIN 1 FOOT OF THE BOTTOM OF THE RAIN GARDENS. CONTRACTOR TO CONTACT ENGINEER TO INSPECT CONTRACTOR SHALL CONDUCT INFILTRATION TESTS AND REPORT RESULTS TO ENGINEER PRIOR TO CONSTRUCTION.
 7. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR LOCATIONS, LAYOUTS, AND ELEVATIONS.

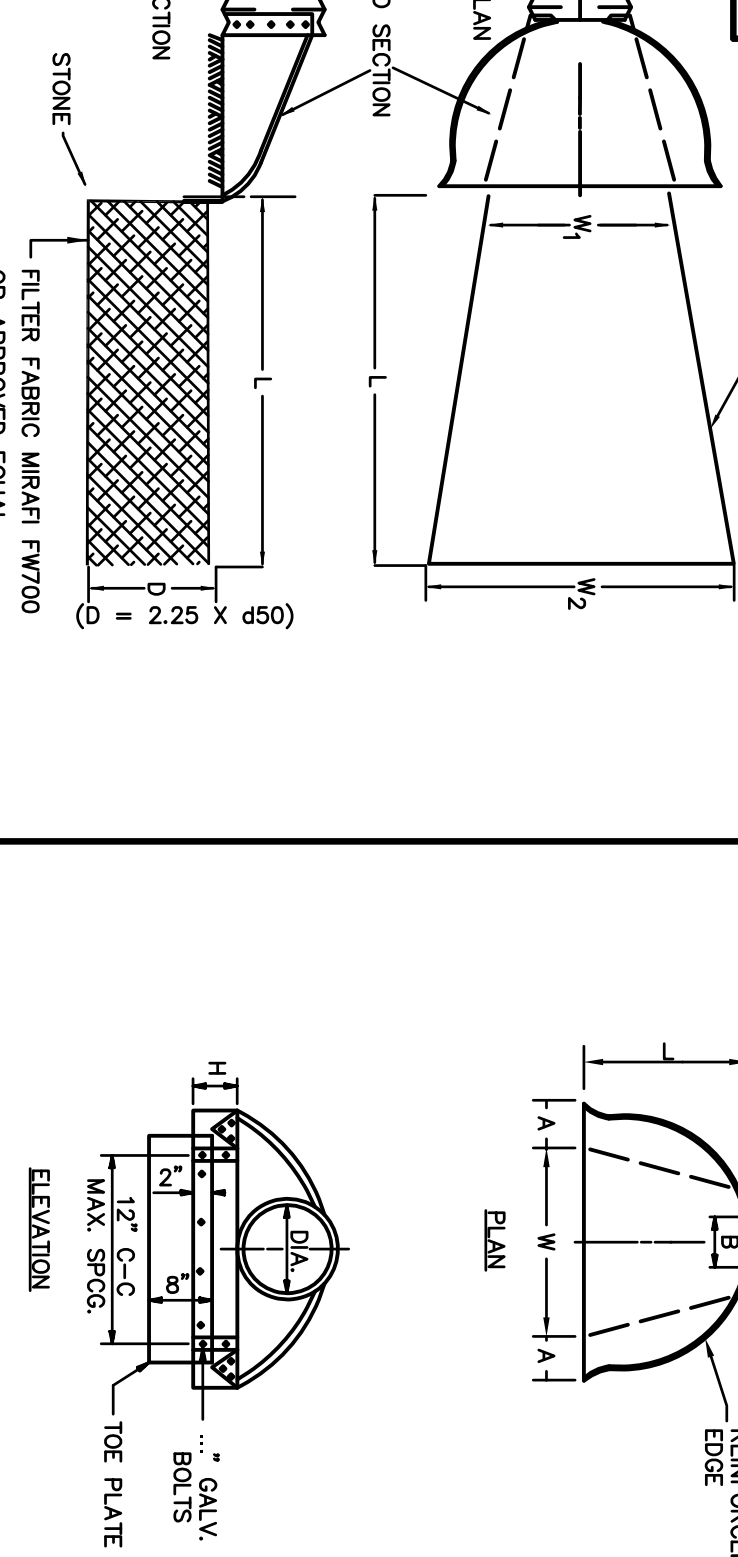
ELTER MEDIA COMPOSITION:

COMPONENT MATERIAL	PERCENT BY WEIGHT	GRADATION OF MATERIAL	PERCENT PASSING
PERCY OF MIXTURE	20-30	20-30	15-25
ASTM C-33 CONCRETE SAND	20-30	20-30	5 MAX.
LOAMY SAND TOP-SOIL	20-30	20-30	5 MAX.
MIXED SAND	20-30	20-30	5 MAX.
BARK OR WOOD FIBER MULCH	20-30	20-30	5 MAX.



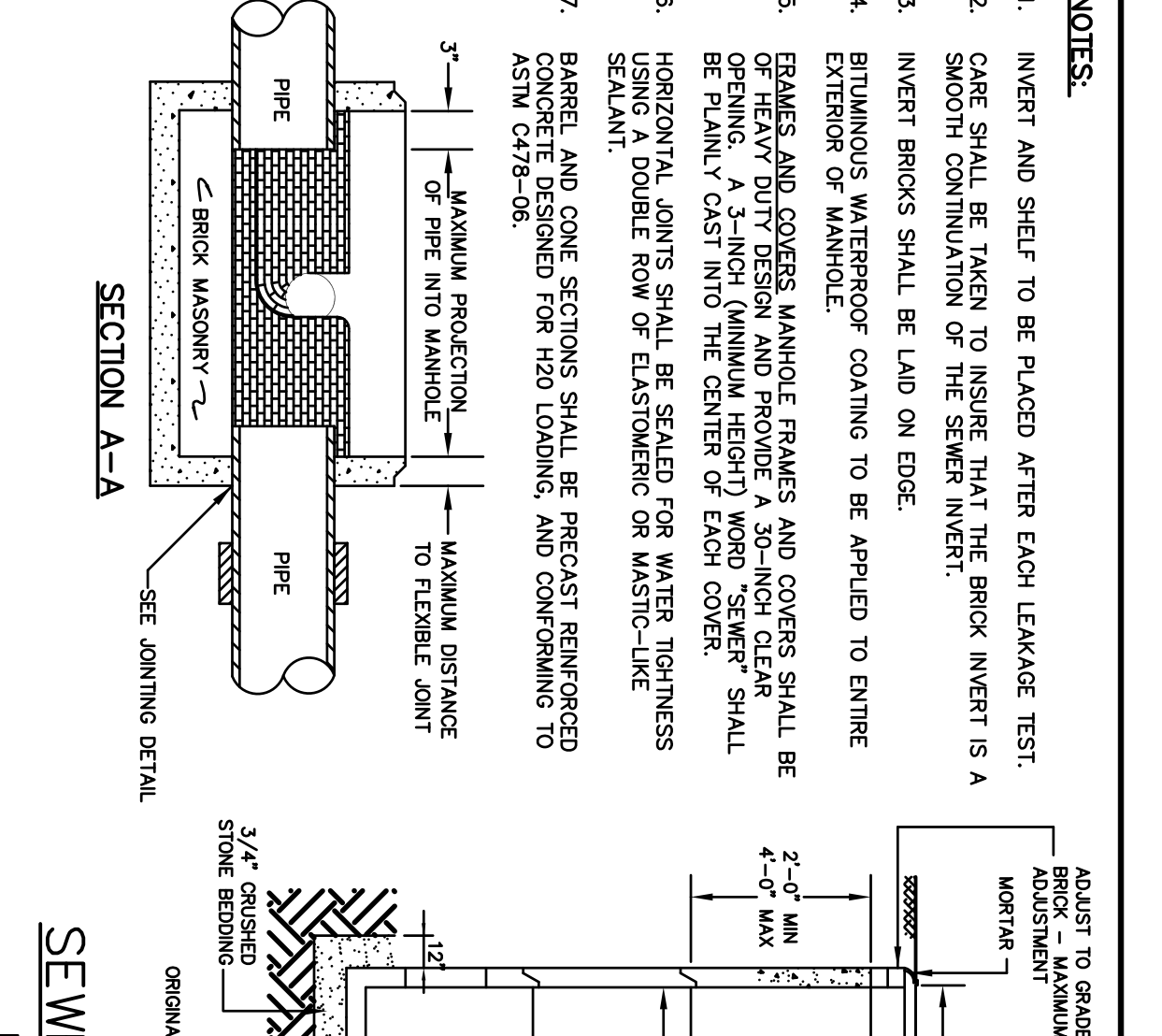
STONE APRON DETAIL
NOT TO SCALE

- NOTES:**
1. STONE SIZE AND MAT DIMENSIONS DETAILED ON PLANS.
 2. STONE SHALL CONSIST OF SUB-ANGULAR FIELD STONE OR ROUND LUMEN QUARRY STONE OF APPROXIMATELY RECTANGULAR SHAPE FLAT OR ROUND ROCKS ARE NOT ACCEPTABLE. THE STONE SHALL BE HARD AND OF SUCH QUALITY THAT IT WILL NOT DISINTEGRATE ON EXPOSURE TO WATER OR WEATHERING. BE CHEMICALLY INERT TO THE SOIL AND NOT TO BE CONTAMINATED BY CHEMICALLY ACTIVE INDIVIDUAL STONES SHALL BE AT LEAST 2.5.
 3. THE STONE SHALL BE COMPOSED OF A WELL-GRADED MIXTURE DOWN TO THE ONE-INCH SIZE PARTICLE SUCH THAT 50 PERCENT OF THE MIXTURE BY WEIGHT SHALL BE LARGER THAN THE D50 SIZE SPECIFIED. A WELL-GRADED MIXTURE IS DEFINED AS A MIXTURE IN WHICH THE PERCENTAGE OF PARTICLES PASSING THROUGH A SIGNIFICANT MIXTURE OF OTHER SIZES TO FILL THE PROGRESSIVELY SMALLER VIDS BETWEEN THE STONES. THE DIAMETER OF THE LARGEST STONE SIZE IN SUCH A MIXTURE SHALL BE 1.5 TIMES THE D50 SIZE.



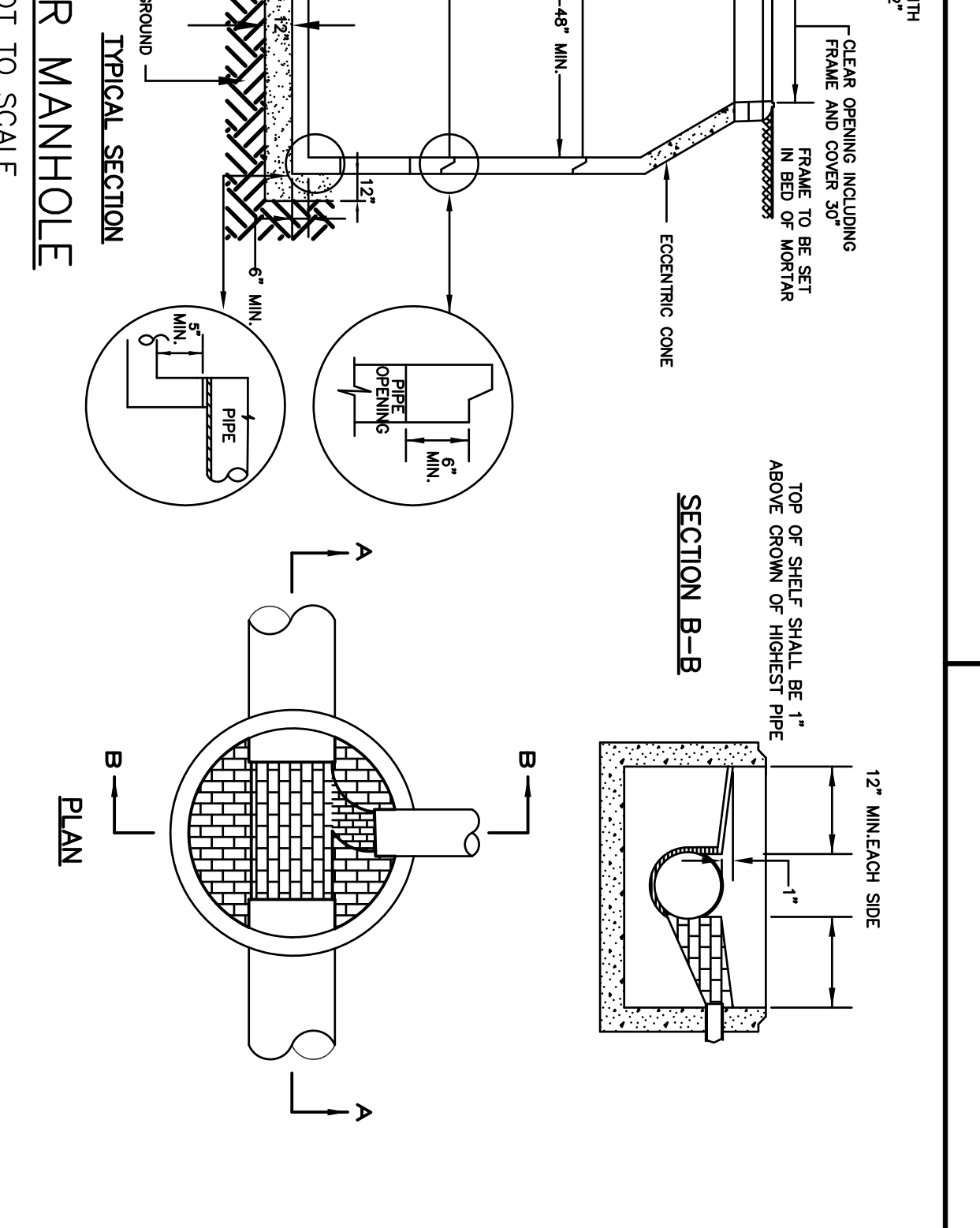
METAL FLARED END SECTION
NOT TO SCALE

- NOTES:**
1. END SECTION FOR 12" TO 30" DIA. PIPE IN ONE PIECE FOR 36" TO 48" DIA. PIPE TO BE MADE FROM TWO SHEETS JOINED BY RIVETING OR BOLTING ON CENTER LINE.
 2. CONNECTOR SECTION, CORNER PLATE AS END SECTION AND EACH TO BE GALVANIZED.



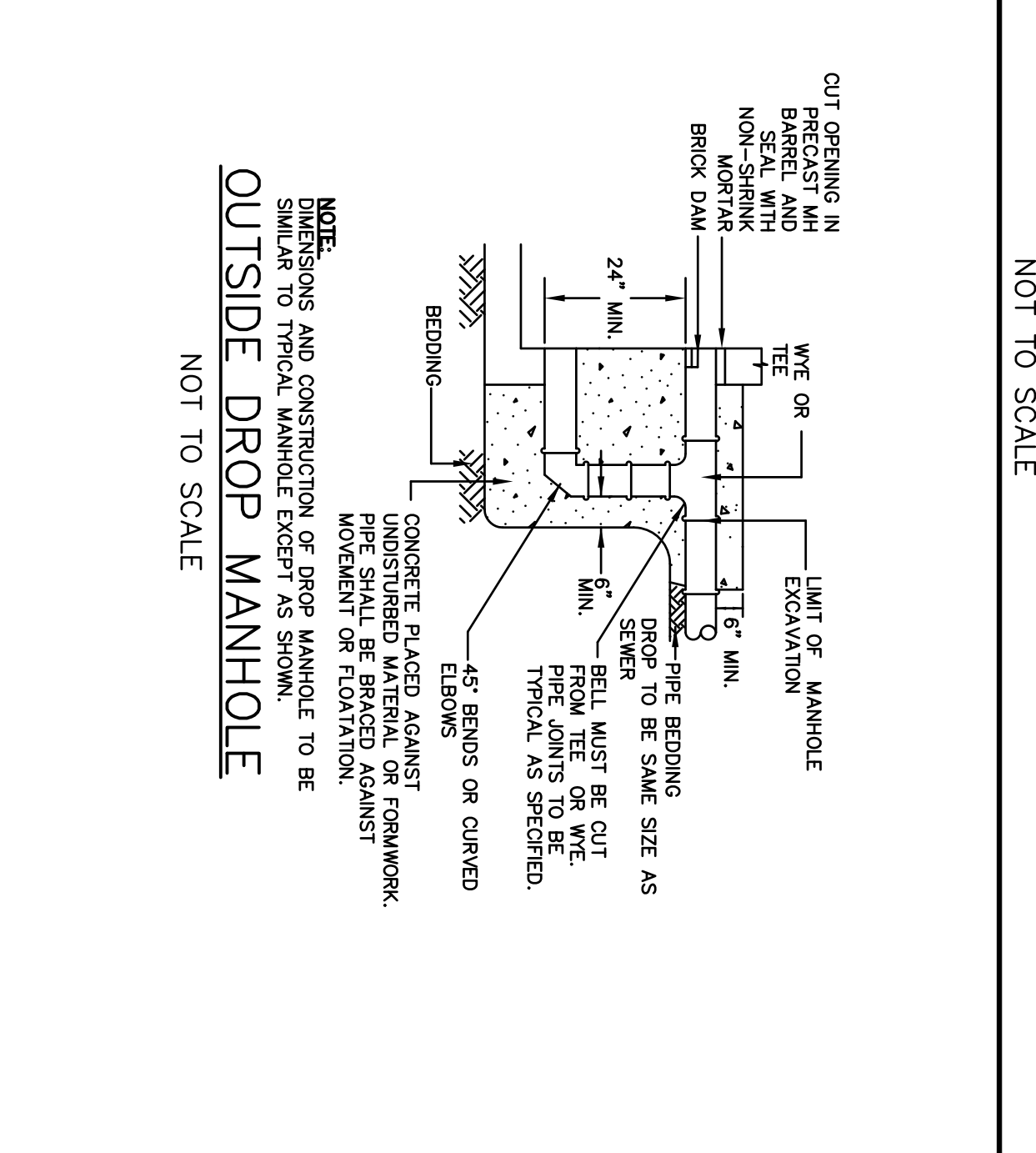
SEWER MANHOLE
NOT TO SCALE

- NOTES:**
1. INVERT AND SHELF TO BE PLACED AFTER EACH LEAKAGE TEST.
 2. CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT.
 3. INVERT BRICKS SHALL BE Laid ON EDGE.
 4. BITUMINOUS WATERPROOF COATING TO BE APPLIED TO ENTIRE EXTERIOR OF MANHOLE.
 5. FRAMES AND COVERS MANHOLE FRAMES AND COVERS SHALL BE HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING TO THE CENTER OF EACH COVER. BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
 6. HORIZONTAL JOINTS SHALL BE SEALED FOR WATER TIGHTNESS SEALANT.
 7. BARREL AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE DESIGNED FOR H20 LOADING, AND CONFORMING TO ASTM C478-06.



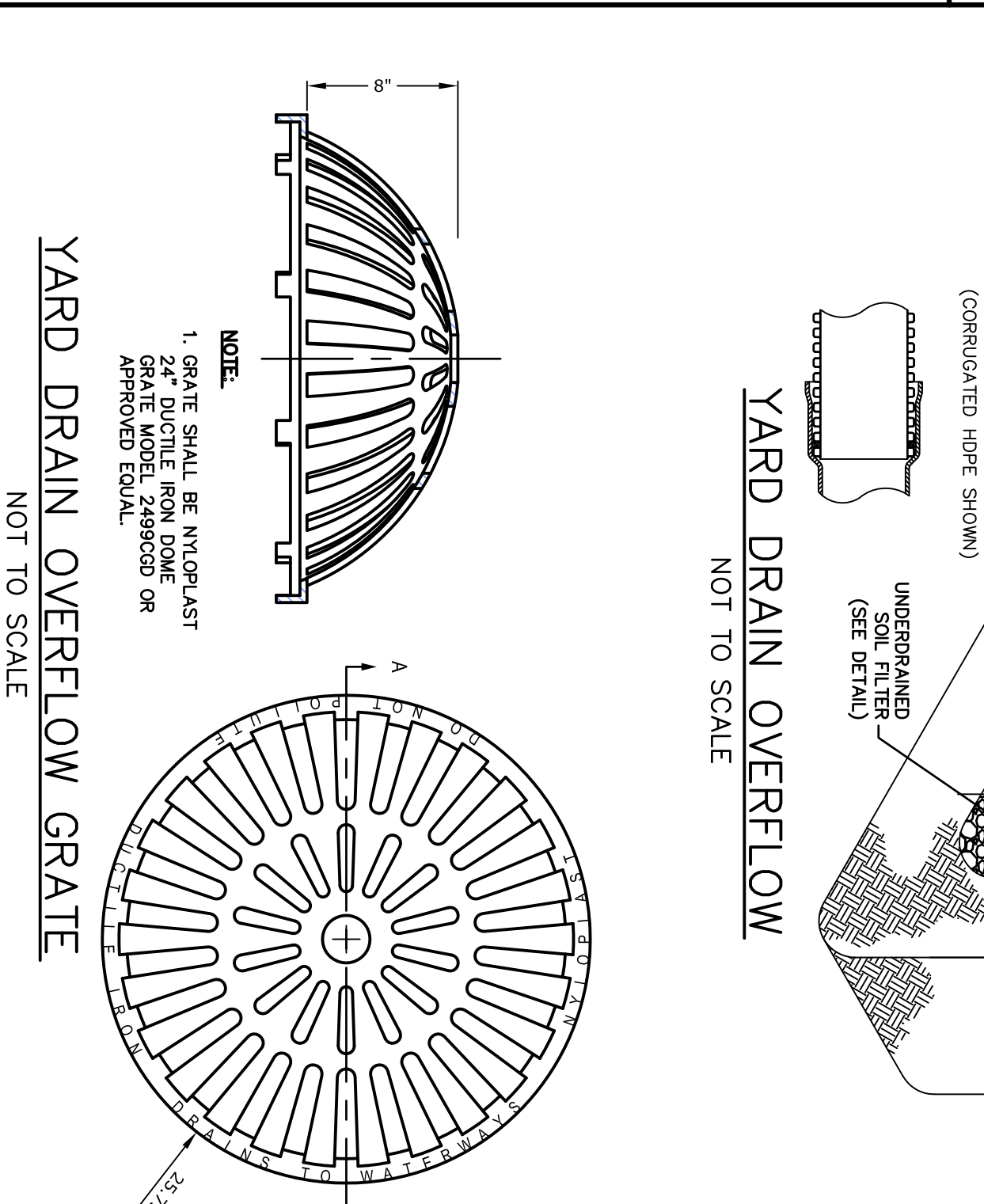
1,000 GALLON GREASE TRAP
NOT TO SCALE

- NOTES:**
1. GREASE TRAP SHALL BE AMERICAN CONSTRUCTION OF APPROVED EQUAL.
 2. CONCRETE SHALL HAVE STRENGTH OF 4000 PSI @ 28 DAYS.
 3. CONCRETE SHALL HAVE 4X-6X ENTRAINMENT.
 4. ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT.
 5. TANK SHOULD BE RUMMED AS NEEDED.
 6. MANHOLE FRAME AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING A 3" MINIMUM HEIGHT WORK CENTER OF EACH COVER (CEMENT FOUNDRY TYPE). ALL COVERS SHALL BE ADJUST COVER TO MATCH MANHOLE 12" ADJUSTMENT.
 7. ALL COMPONENTS TO BE DESIGNED FOR AASHTO H20-44 LOADING.



OUTSIDE DROP MANHOLE
NOT TO SCALE

- NOTE:** DIMENSIONS AND CONSTRUCTION OF DROP MANHOLE TO BE SIMILAR TO TYPICAL MANHOLE EXCEPT AS SHOWN.



YARD DRAIN OVERFLOW
NOT TO SCALE

- NOTE:** GRAVE SHALL BE VULCANIZED GRADE MODEL 2499C03 OR APPROVED EQUAL.

April 03, 2015

SCALE: AS SHOWN

C-7

NO.	DATE	DESCRIPTION
1.	5/8/15	REVISED FOR PER WORKSHOP

PROJECT NO: J0096-DETAILS.dwg
FILE: J0096-DETAILS.dwg
DRAWN BY: GWH
CHECKED BY: BLM
APPROVED BY: BLM

DETAILS SHEET

Jewish Community Alliance of Southern Maine
Proposed Neighborhood Center
Portland, Maine

Professional Engineer Seal: State of Maine, License No. 17508, Exp. 12/31/2017, Tighte & Bond, Inc.

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Consulting Engineers
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