

EROSION CONTROL NOTES

GENERAL:

THE DRAWINGS DEPICT THE REQUIRED SOIL EROSION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE IN SUCH A MANNER THAT:

- 1. SOIL EROSION IS KEPT TO A MINIMUM.
2. NO SEDIMENT LEAVES THE CONSTRUCTION SITE PROPER.
3. ALL POSSIBLE MEASURES ARE EMPLOYED TO PREVENT SEDIMENT FROM ENTERING DRAINAGE COURSES AND WETLANDS EVEN BEYOND THE DETAILS SHOWN ON THIS PLAN IF NECESSARY.
... 15. WATER FROM CONSTRUCTION TRENCH DEWATERING OR TEMPORARY STREAM DIVERSION WILL PASS FIRST THROUGH A FILTER BAG OR SECONDARY CONTAINMENT STRUCTURE (E.G. HAY BALE OR EROSION CONTROL MIX LINED POOL) PRIOR TO DISCHARGE...

TOPSOIL:

- 1. SUITABLE TOPSOIL SALVAGED FROM SITE OR SCREENED, LOOSE AND FRIABLE SANDY LOAM OR LOAM AS DEFINED BY THE USDA SOIL CONSERVATION SERVICE CLASSIFICATION SYSTEM...
... ORGANICS (SHALL MEET THE REQUIREMENTS OF MDOT STANDARD SPECIFICATION 111.03 PEAT HUMUS) (% BY VOLUME) . 10 - 20
... NUTRIENTS: CALCIUM (CA) (% SATURATION) 60 - 80
MAGNESIUM (MG) (% SATURATION) 10 - 25
... PERMEABILITY (INCHES PER HOUR) 3 - 10

SEEDING:

USE PERMANENT SEED MIXES AND RATES BETWEEN 5/15 AND 9/30. USE TEMPORARY SEED MIXES FOR PERIODS LESS THAN 12 MONTHS. IF USING TEMPORARY SEED MIXES AND RATES BETWEEN 10/1 AND 5/14, RE-SEED WITH PERMANENT SEED MIX AFTER 5/15.

PERMANENT SEED:

MDOT 111.03(a) METHOD NUMBER 3

TEMPORARY SEED:

Table with 4 columns: Seed Type, Rate, and Date. Includes OATS (8000 LBS/ACRE), ANNUAL RYEGRASS (4000 LBS/ACRE), BUDAGRASS (4000 LBS/ACRE), etc.

LIME AND FERTILIZER:

APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (300 POUNDS PER 1000 SQUARE FEET). APPLY FERTILIZER (10-20-20) AT A RATE OF 800 POUNDS PER ACRE (80.4 POUNDS PER 1000 SQUARE FEET).

MULCH:

Table with 2 columns: Material and Quantity. Includes STRAW OR HAY (ANCHORED) 10 - 30 LBS, STRAW OR HAY (ANCHORED) 105 - 215 LBS, etc.

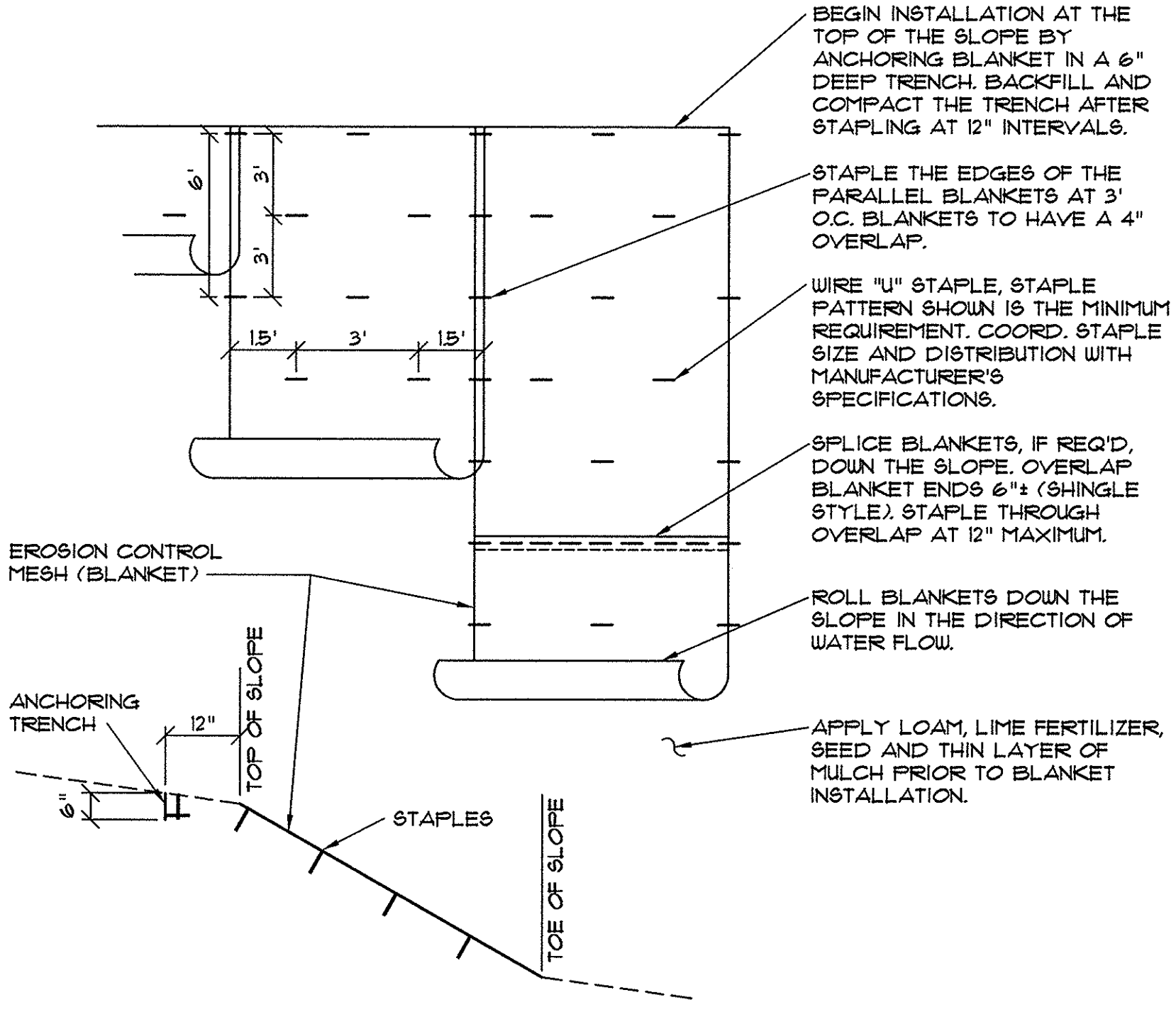
MULCH ANCHORING

PEG AND TWINE LIQUID ASPHALT
MULCH NETTING WOOD CELLULOSE FIBER
ASPHALT EMULSION CHEMICAL TACK

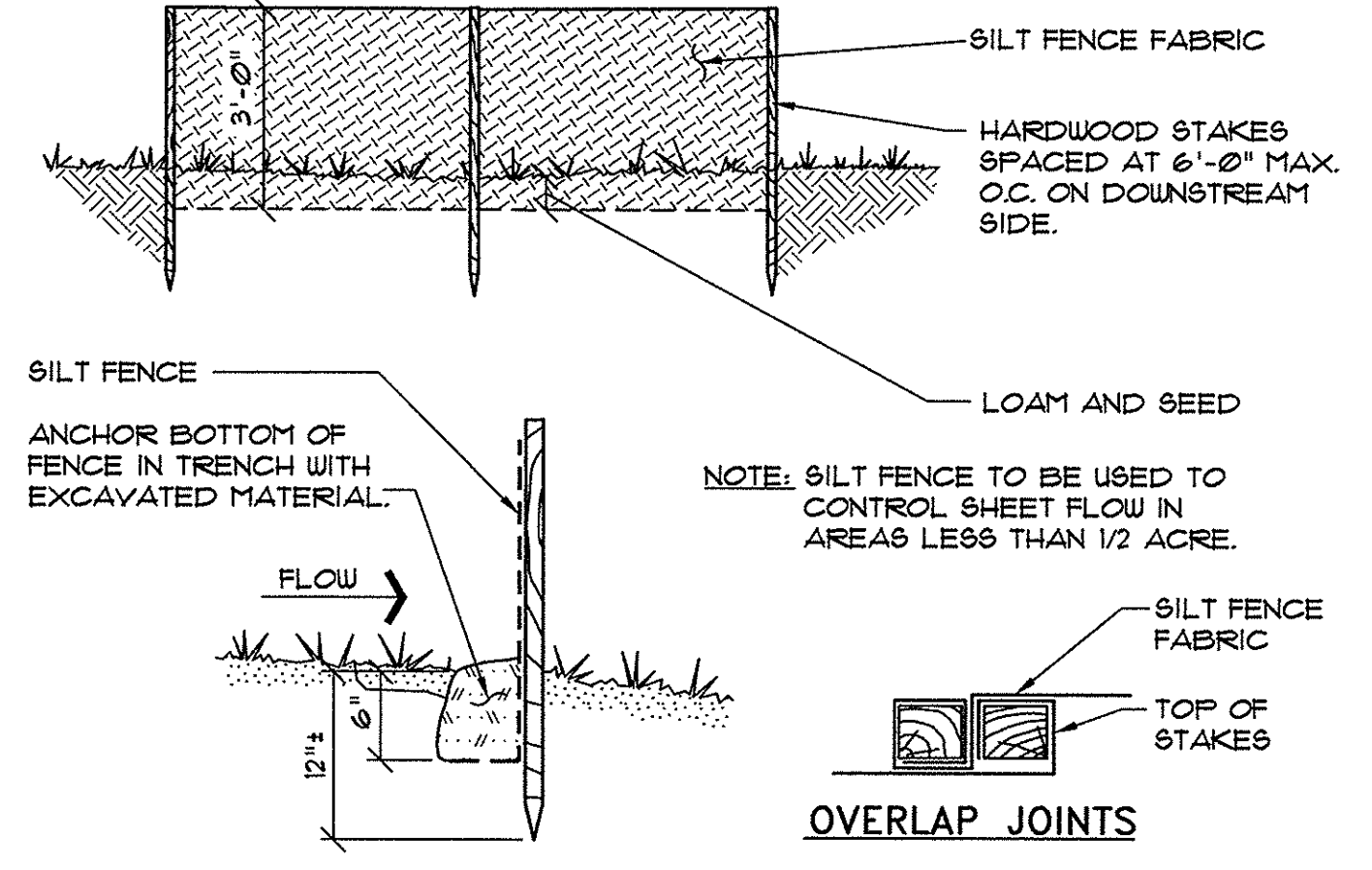
WINTER CONSTRUCTION:

THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 15% MATURE VEGETATION COVER OR RIP RAP BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION...

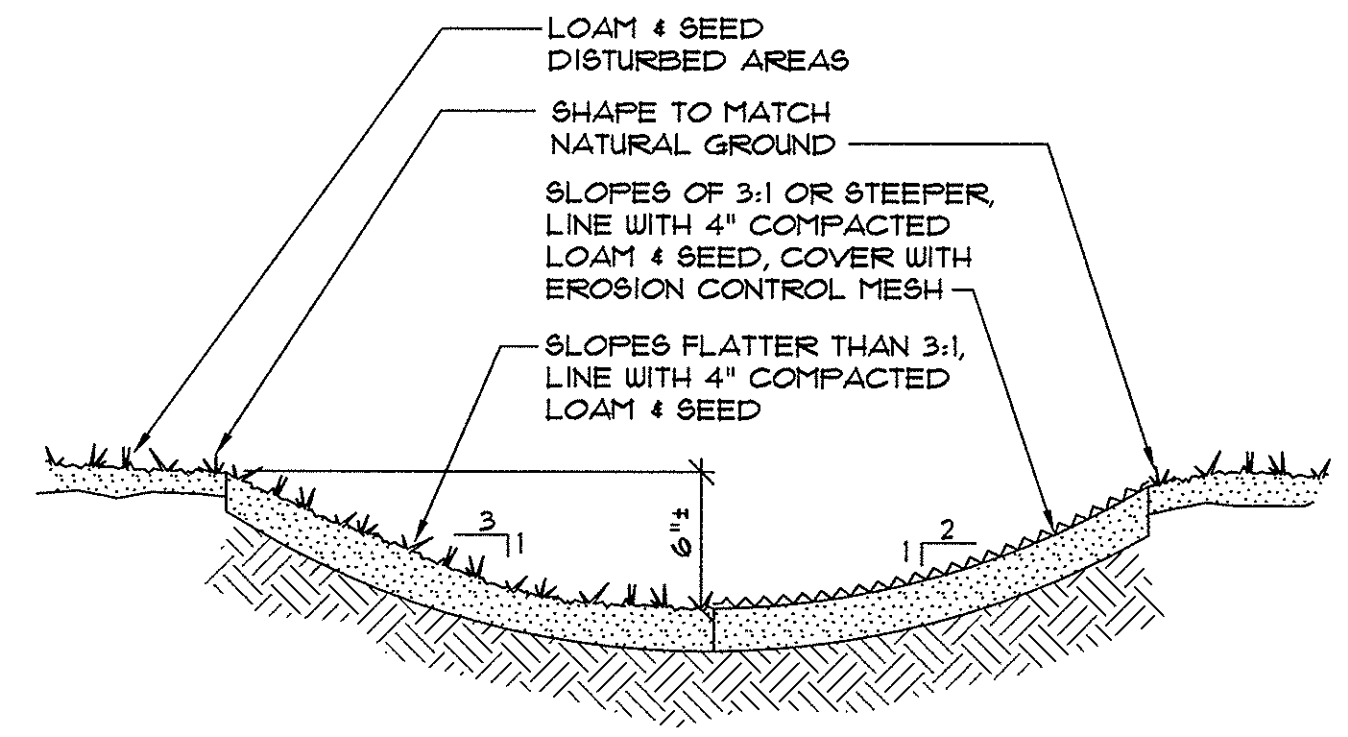
- 1. SOIL STOCKPILES: STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER-WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR AT 150 LBS/1000 SF.
2. NATURAL RESOURCES PROTECTION: ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING...
3. SEDIMENT BARRIERS: DURING FROZEN CONDITIONS, SEDIMENT BARRIERS SHALL CONSIST OF EROSION CONTROL MIX SEDIMENT BARRIERS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES AND SEDIMENT BILT FENCES.
... 9. INSPECTION AND MONITORING: MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON...



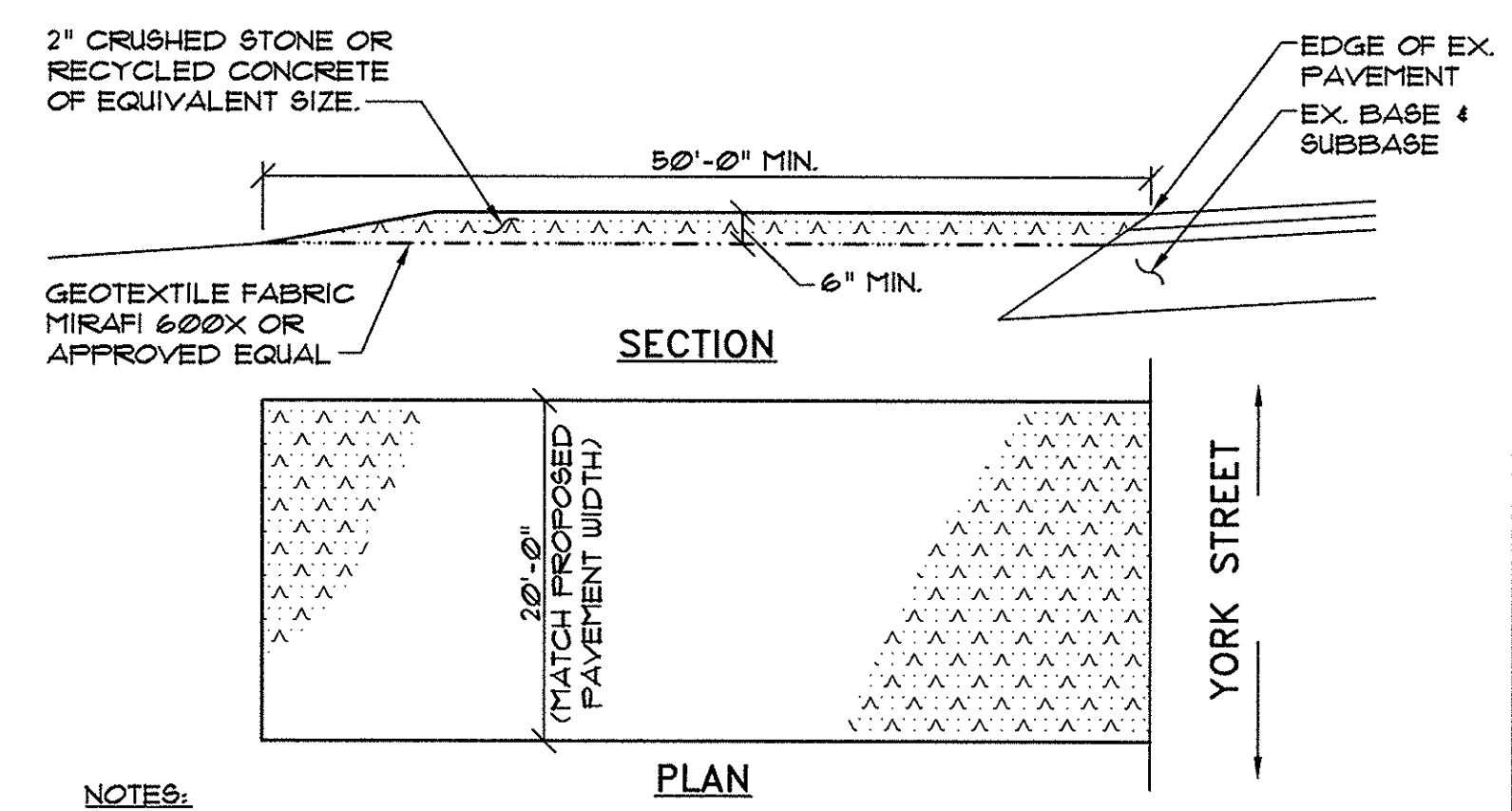
2. EROSION CONTROL MESH INSTALLATION DETAIL NOT TO SCALE



1. SILT FENCE DETAIL NOT TO SCALE



4. GRASS DITCH SECTION NOT TO SCALE



3. STABILIZED CONSTRUCTION ENTRANCE DETAIL NOT TO SCALE

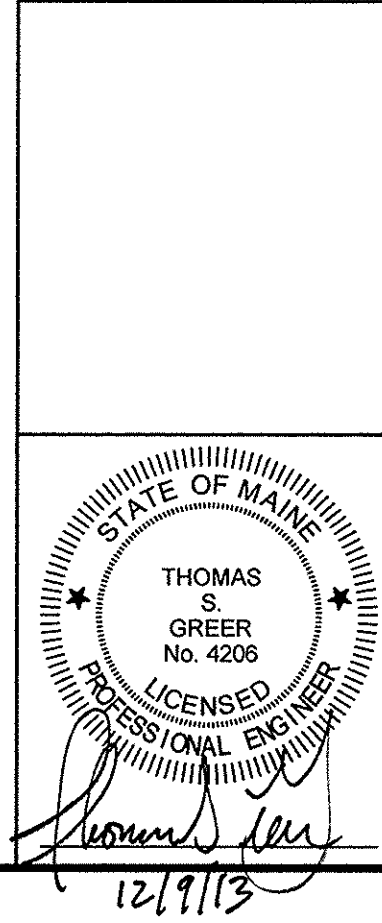
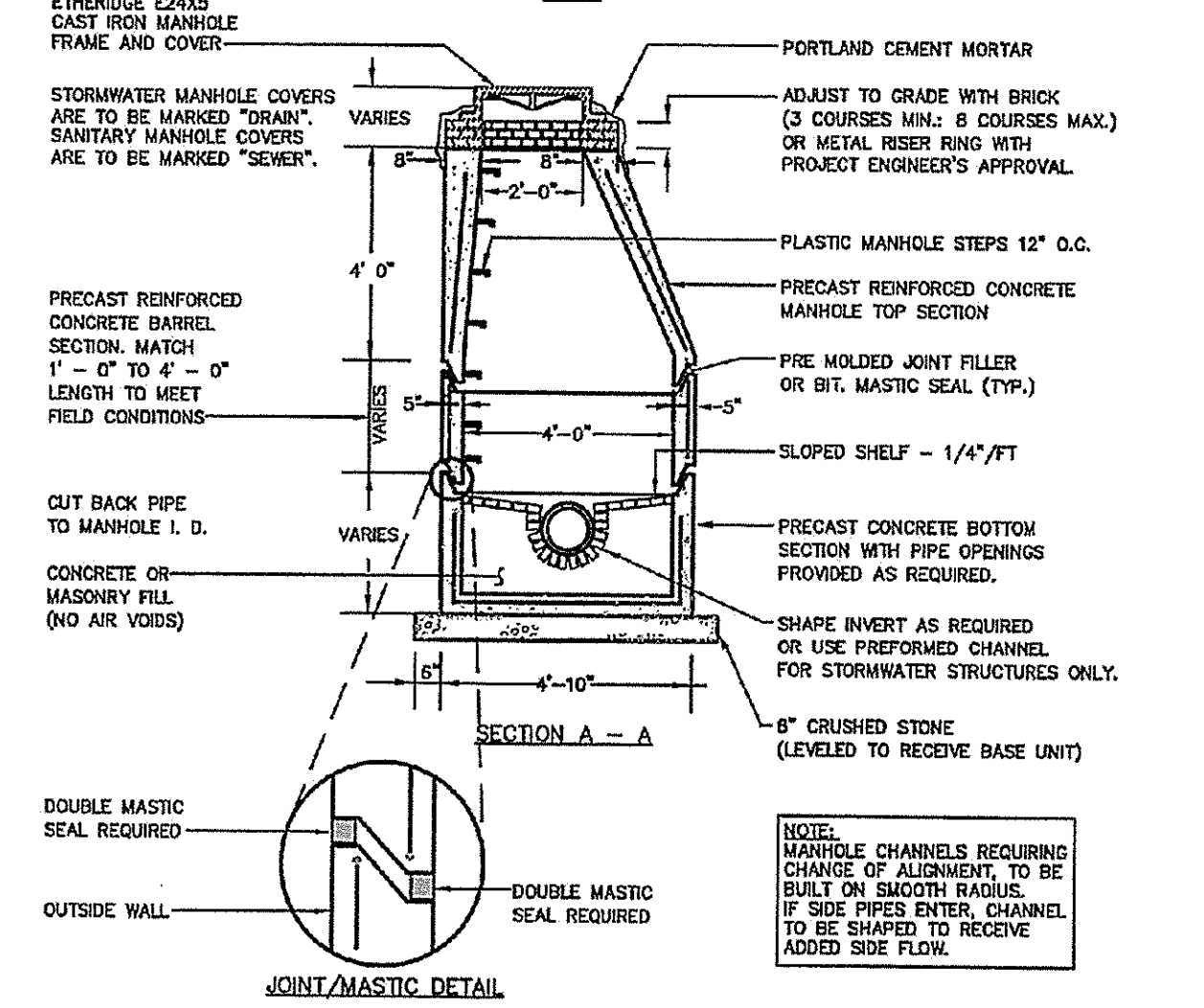
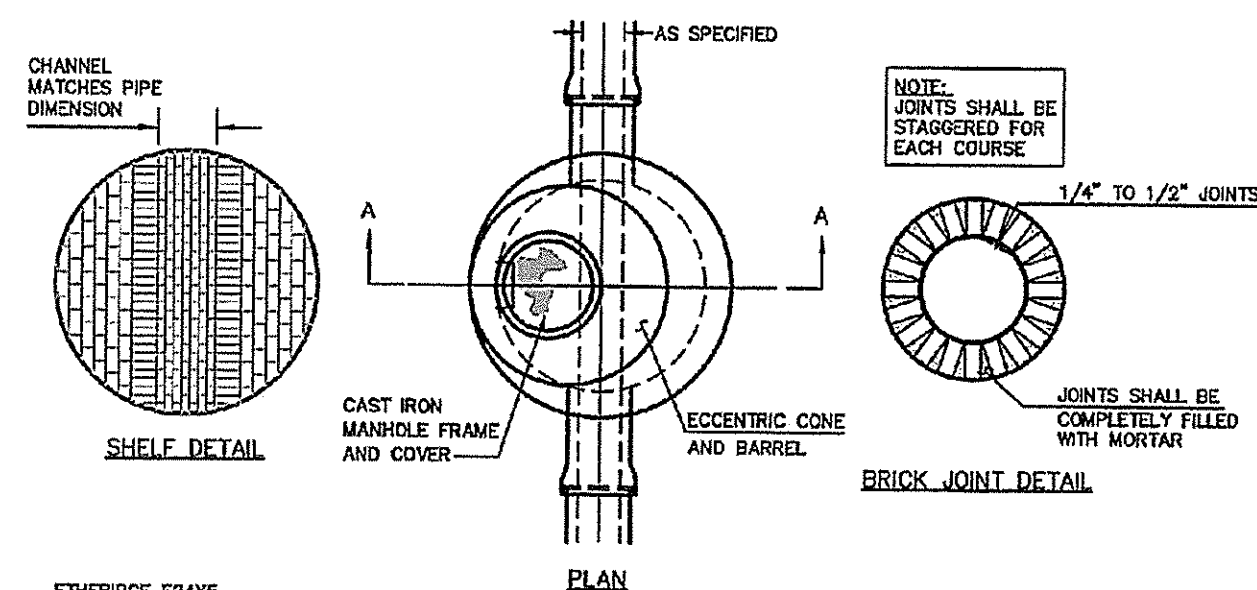


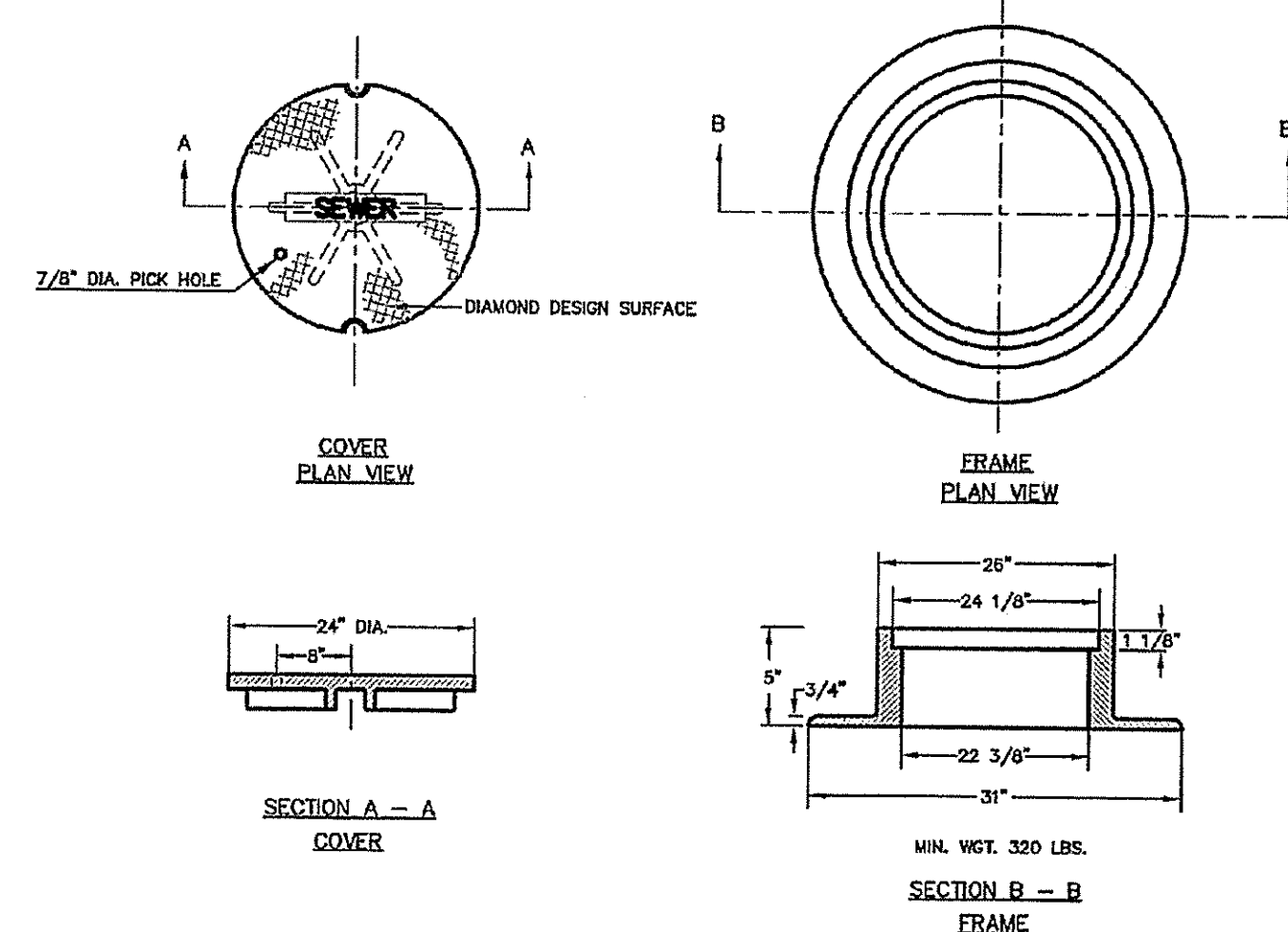
Table with 3 columns: REV., DATE, DESCRIPTION. Contains revision records and project details for 133 YORK STREET CONDOMINIUMS. Includes project name, address, and scale information.



5 PRECAST CONCRETE MANHOLE (II-1) NOT TO SCALE

NOTE: ALL MANHOLE COVERS SHALL BE SOLID AND SHALL HAVE ONE 7/8" DIAMETER DRILLED PICK HOLE, LOCATED 8" FROM THE CENTER OF THE COVER.

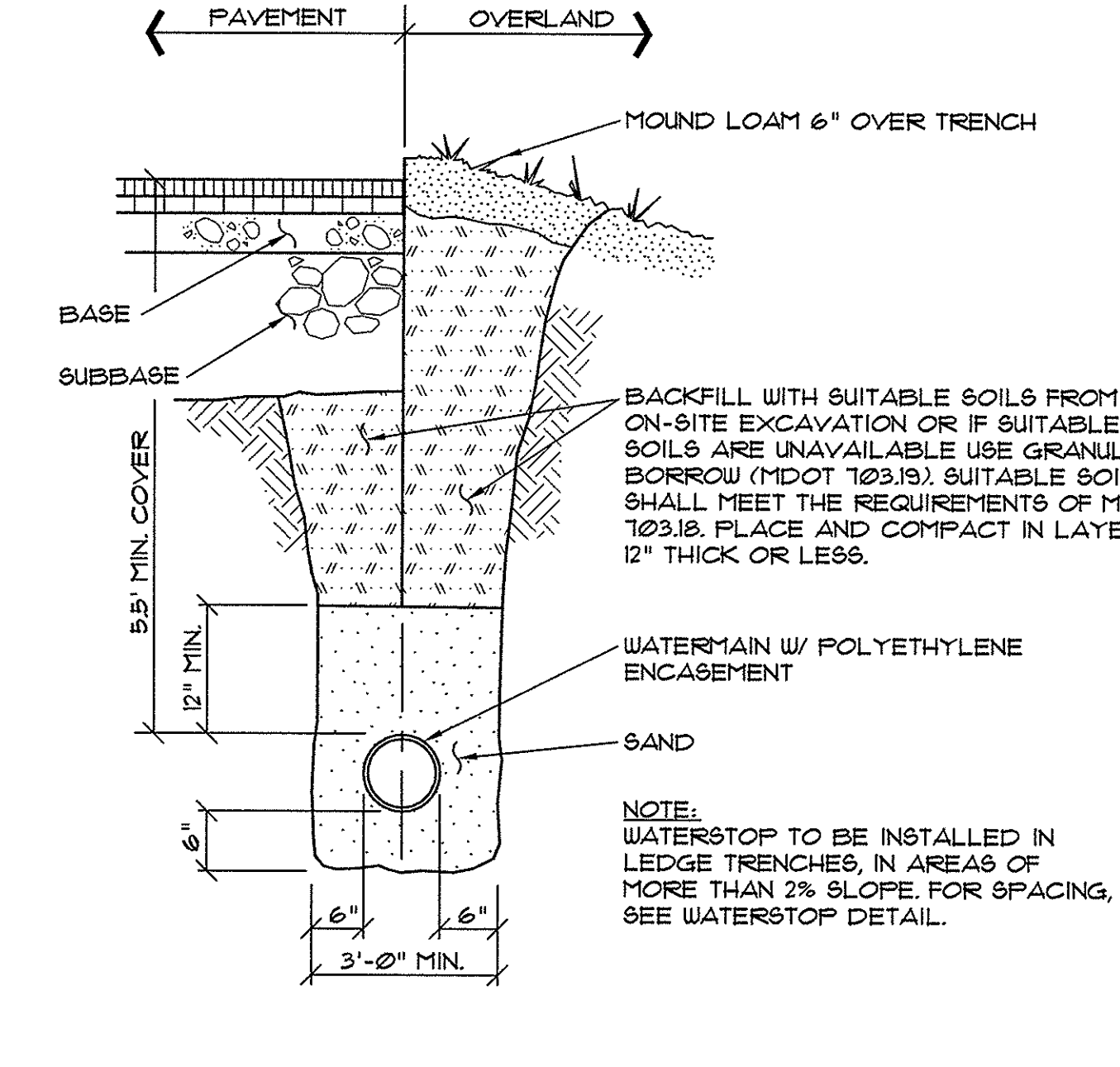
ALL SANITARY MANHOLE COVERS SHALL HAVE "SEWER" CAST INTO THE COVER. ALL STORMWATER/DRAIN MANHOLE COVERS SHALL HAVE "DRAIN" CAST INTO THE COVER.



4 CONCRETE IRON MANHOLE COVER & FRAME (II-5) NOT TO SCALE

POLYETHYLENE ENCASUREMENT GENERAL SPECIFICATIONS

1. TUBE TYPE POLYETHYLENE ENCASUREMENT SHALL BE INSTALLED ON ALL DUCTILE IRON PIPE AND FITTINGS IN ACCORDANCE WITH AWWA STANDARD C105 - LATEST REVISION, METHOD A.
2. POLYETHYLENE ENCASUREMENT SHALL BE EITHER LINEAR LOW-DENSITY POLYETHYLENE (LLDPE) FILM WITH A MINIMUM THICKNESS OF 8-MIL OR HIGH-DENSITY, CROSS-LAMINATED POLYETHYLENE (HDCLPE) FILM WITH A MINIMUM THICKNESS OF 4-MIL.
3. CIRCUMFERENTIAL WRAPS OF TAPE OR PLASTIC TIE STRAPS SHALL BE PLACED AT 2-FT. INTERVALS ALONG THE BARREL OF THE PIPE.
4. THE POLYETHYLENE ENCASUREMENT SHALL PREVENT CONTACT BETWEEN THE PIPE AND THE SURROUNDING BACKFILL AND BEDDING MATERIAL BUT IS NOT INTENDED TO BE A COMPLETELY AIRTIGHT OR WATERTIGHT ENCLOSURE. ALL LUMPS OF CLAY, MUD, CINDERS, AND SO FORTH, ON THE PIPE SURFACE SHALL BE REMOVED PRIOR TO INSTALLATION OF THE POLYETHYLENE ENCASUREMENT. DURING INSTALLATION, CARE SHALL BE EXERCISED TO PREVENT SOIL OR EMBANKMENT MATERIAL FROM BECOMING TRAPPED BETWEEN THE PIPE AND THE POLYETHYLENE.
5. THE POLYETHYLENE FILM SHALL BE FITTED TO THE CONTOUR OF THE PIPE TO EFFECT A SNUG, BUT NOT TIGHT, ENCASUREMENT WITH MINIMUM SPACE BETWEEN THE POLYETHYLENE AND THE PIPE. SUFFICIENT SLACK SHALL BE PROVIDED IN CONTOURING TO PREVENT STRETCHING THE POLYETHYLENE WHERE IT BRIDGES IRREGULAR SURFACES, SUCH AS BELL-SPIGOT INTERFACES, BOLTED JOINTS, OR FITTINGS, AND TO PREVENT DAMAGE TO THE POLYETHYLENE DUE TO BACKFILLING OPERATIONS. OVERLAPS AND ENDS SHALL BE SECURED WITH ADHESIVE TAPE, STRING, PLASTIC TIE STRAPS, OR ANY OTHER MATERIAL CAPABLE OF HOLDING THE POLYETHYLENE ENCASUREMENT IN PLACE UNTIL BACKFILLING OPERATIONS ARE COMPLETE.
6. THREE LAYERS OF POLYETHYLENE ADHESIVE TAPE SHALL BE WRAPPED AROUND ANY POLYWRAPPED PIPE WHERE A TAPPING MACHINE WILL BE PLACED. ALL COPPER SERVICES CONNECTED TO A PIPE WRAPPED IN POLYETHYLENE ENCASUREMENT SHALL BE WRAPPED WITHIN THREE FEET OF THE PIPE.



6 TYPICAL WATER MAIN SECTION ON-SITE NOT TO SCALE

UNDERGROUND UTILITIES WARNING TAPE

IDENTIFICATION TAPE TO BE INSTALLED ABOVE ALL NEW UNDERGROUND UTILITIES AND ABOVE ANY EXISTING UTILITIES THAT MAY BE EXPOSED BY THIS CONSTRUCTION.

DETECTABLE UNDERGROUND MARKING TAPE TO BE PERMANENT, BRIGHT-COLORED, CONTINUOUS-PRINTED PLASTICIZED ALUMINUM TAPE, INTENDED FOR DIRECT-BURIAL SERVICE NOT LESS THAN 3" WIDE x 5 MILS THICK. PROVIDE TAPE WITH BLACK PRINTING IDENTIFYING THE UTILITY. DETECTABLE WARNING TAPE REQUIRED OVER ALL WATER, SEWER, DRAINAGE, OR GAS UTILITIES. TAPE TO BE TERRA TAPE BY REEF INDUSTRIES, INC., www.reefindustries.com, OR EQUAL.

AWWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

1 UNDERGROUND UTILITIES WARNING TAPE

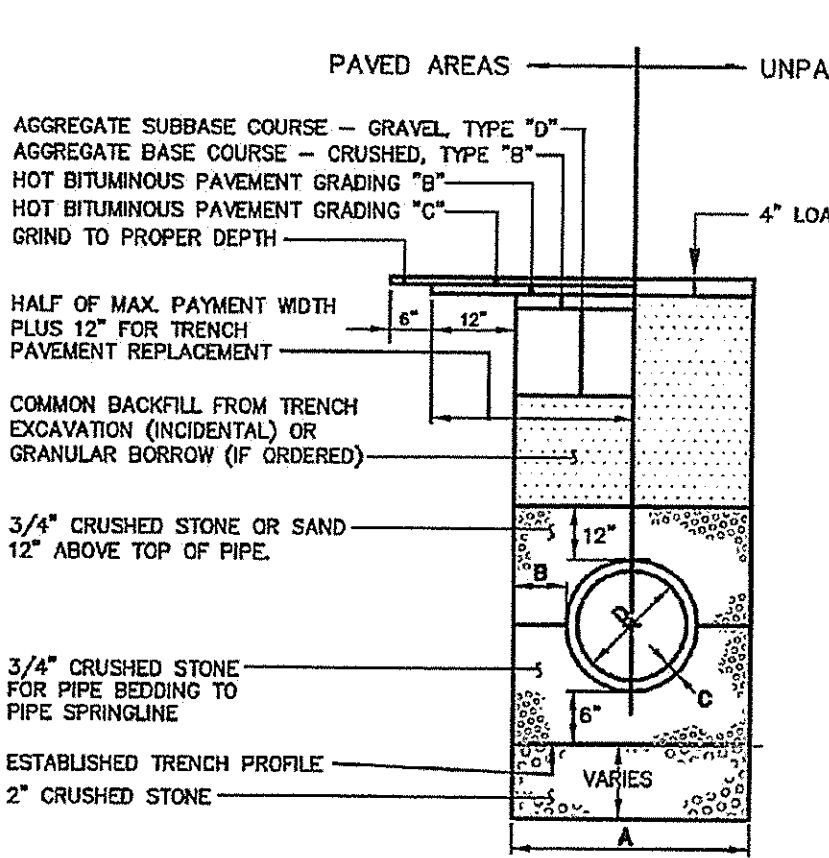
GENERAL NOTES FOR MANHOLES AND CATCH BASINS

1. ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 PSI, PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
2. MANHOLES MAY BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.
3. PRECAST REINFORCED CONE BARREL MANUFACTURED PER ASTM SPEC. C-478.
4. ALL STORM AND SEWER MANHOLE COVERS SHALL BE SOLID AND SHALL HAVE ONE 7/8" DIAMETER DRILL PICK HOLE LOCATED 8" FROM THE CENTER OF THE COVER.
5. ALL SANITARY MANHOLE COVERS SHALL HAVE "SEWER" CAST INTO THE COVER. ALL STORMWATER/DRAIN MANHOLE COVERS SHALL HAVE "DRAIN" CAST INTO THE COVER.
6. ALL MANHOLE RISERS SHALL BE ETHERIDGE 24" OR APPROVED EQUAL.
7. SEWER BRICK SHALL CONFORM TO ASTM SPEC. DESIGNATE ON C-32-63, GRADE MA AND SA.
8. ALL SANITARY MANHOLES SHALL HAVE A WATERPROOFING COATING APPLIED TO THE EXTERIOR SURFACE.
9. CATCH BASIN FRAMES FOR TYPE A4 CATCH BASIN CURB INLETS SHALL BE ETHERIDGE DRSA OR APPROVED EQUAL.
10. CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35.
11. EXISTING MANHOLES, CATCH BASINS, FRAMES, AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.
12. ALL CATCH BASIN OUTLETS SHALL BE INSTALLED WITH A CASCO TRAP. SEE FIGURE II-09.

2 GENERAL NOTES FOR MANHOLES AND CATCH BASINS (II-4)

NOTES: DEPTH OF BITUMINOUS PAVEMENT AND AGGREGATE COURSES SHALL BE DETERMINED BY STREET CLASSIFICATION.

ANY ALTERNATE TRENCHING OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY OF PORTLAND, DEPARTMENT OF PUBLIC SERVICES.



NOTES:

1. ALTERNATIVE CONSTRUCTION METHODS OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY.
2. IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.
3. DIMENSION B SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE; BUT IN ALL CASES DIMENSION B SHALL BE AT LEAST 9".
4. DIMENSION A IS THE MAXIMUM WIDTH ALLOWED FOR CALCULATING PAY QUANTITIES UNDER GRANULAR BORROW, CRUSHED STONE, STRUCTURAL EARTH EXCAVATION, AND STRUCTURAL ROCK EXCAVATION. DIMENSION A SHALL BE BASED ON PIPE DIAMETER D, AS SET FORTH IN THE FOLLOWING TABLE.

PIPE DIAMETER, D (INCHES)	MAX. TRENCH WIDTH, A (FEET)
4	4.0
6	4.0
8	4.0
10	4.0
12	5.0
16	5.0
18	5.0
21	5.0
24	6.0
27	6.0
30	6.0
36	7.0
42	7.0
48	7.0

3 TYPICAL PIPE TRENCH INSTALLATION (11-12)

NOT TO SCALE

3	12/9/13	REV'D PER CONDITIONS OF APPROVAL & STAFF COMMENTS
2	10/1/13	SUBMITTED FOR FINAL APPROVAL
1	9/3/13	REV'D PER STAFF REVIEW COMMENTS
REV.	DATE	DESCRIPTION

133 YORK, LLC
110 MARGINAL WAY, SUITE 292, PORTLAND

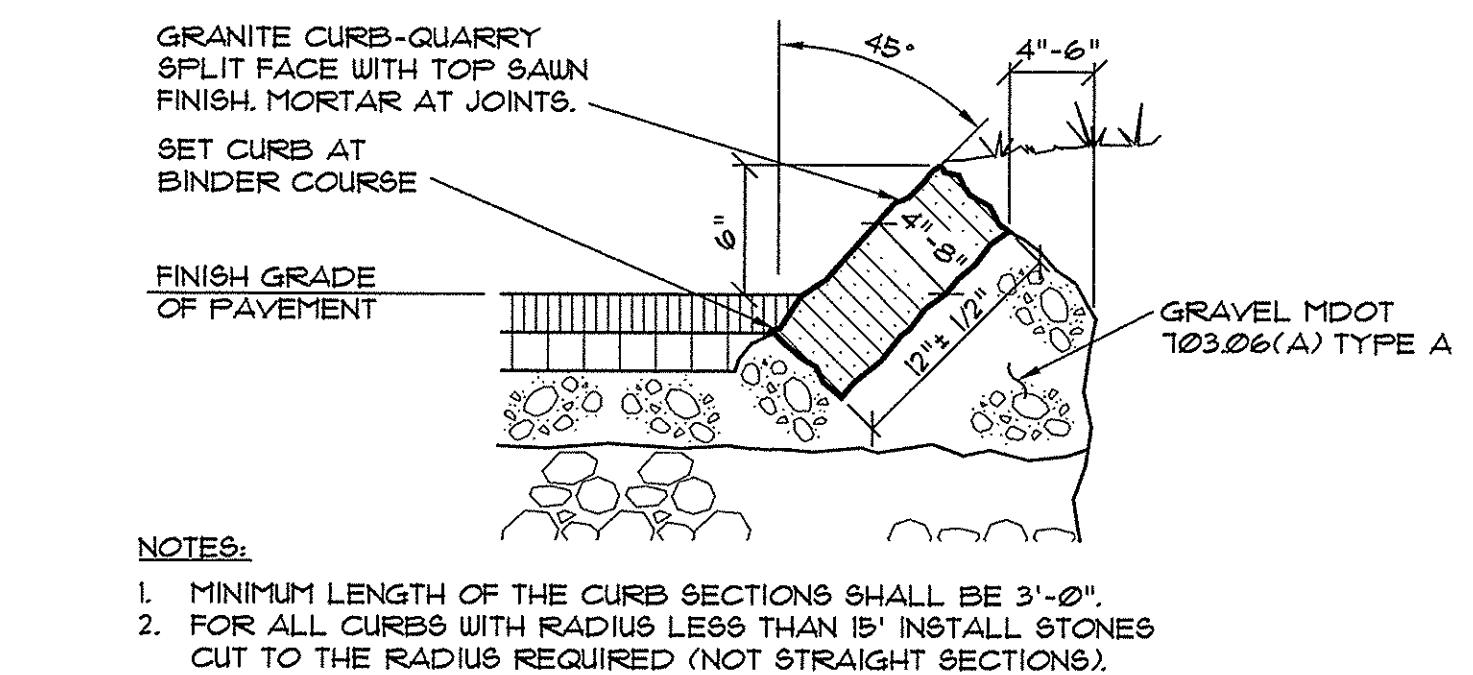
133 YORK STREET CONDOMINIUMS
133 YORK STREET, PORTLAND ME

PINKHAM & GREER
CONSULTING ENGINEERS
28 WANNAN AVENUE
PORTLAND, MAINE

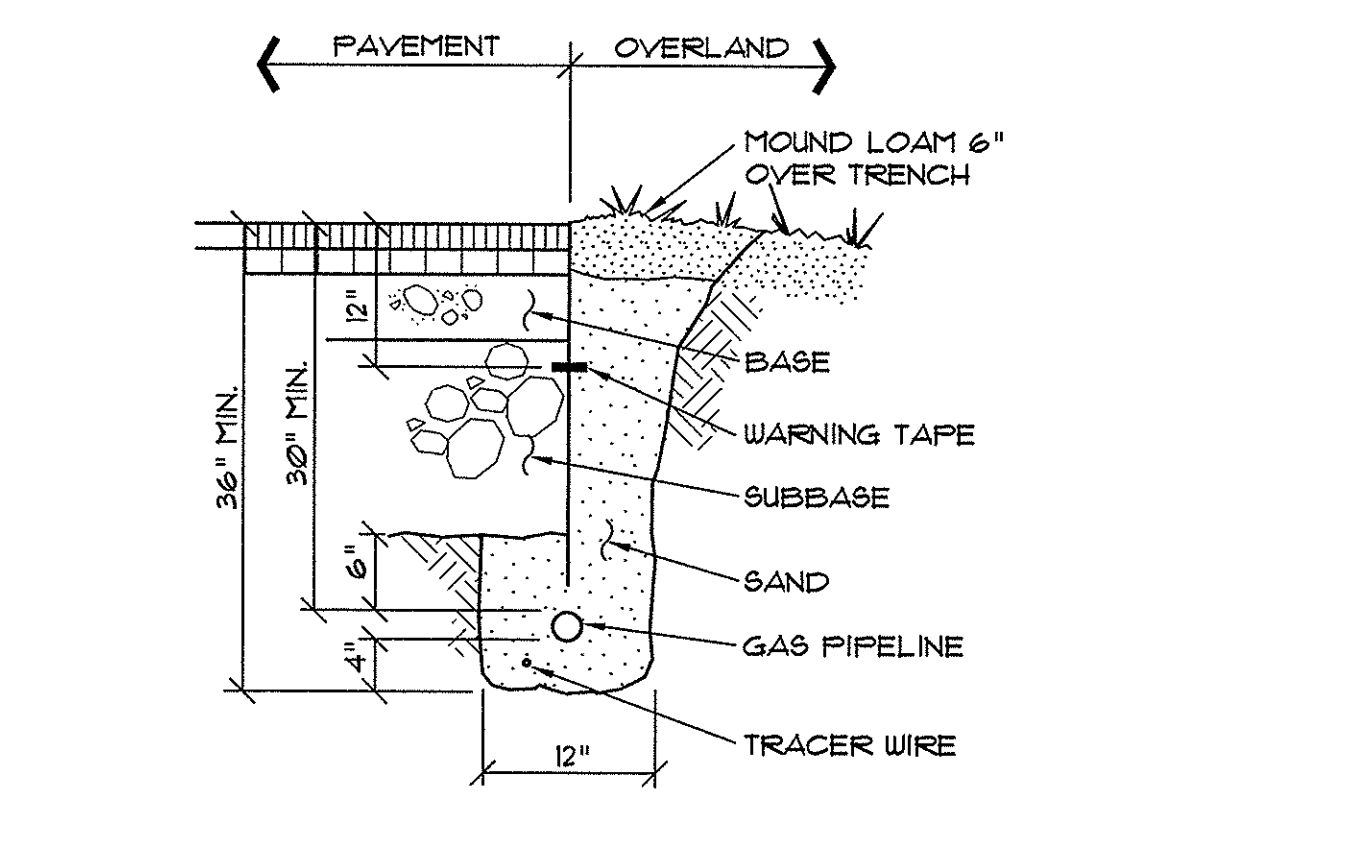
THOMAS S. GREER
No. 4206
LICENSED PROFESSIONAL ENGINEER
STATE OF MAINE

SCALE: AS SHOWN DRN BY: JDC
DATE: JULY 23, 2013 DESG BY: TSG
PROJECT: 13105 CHK BY: TSG

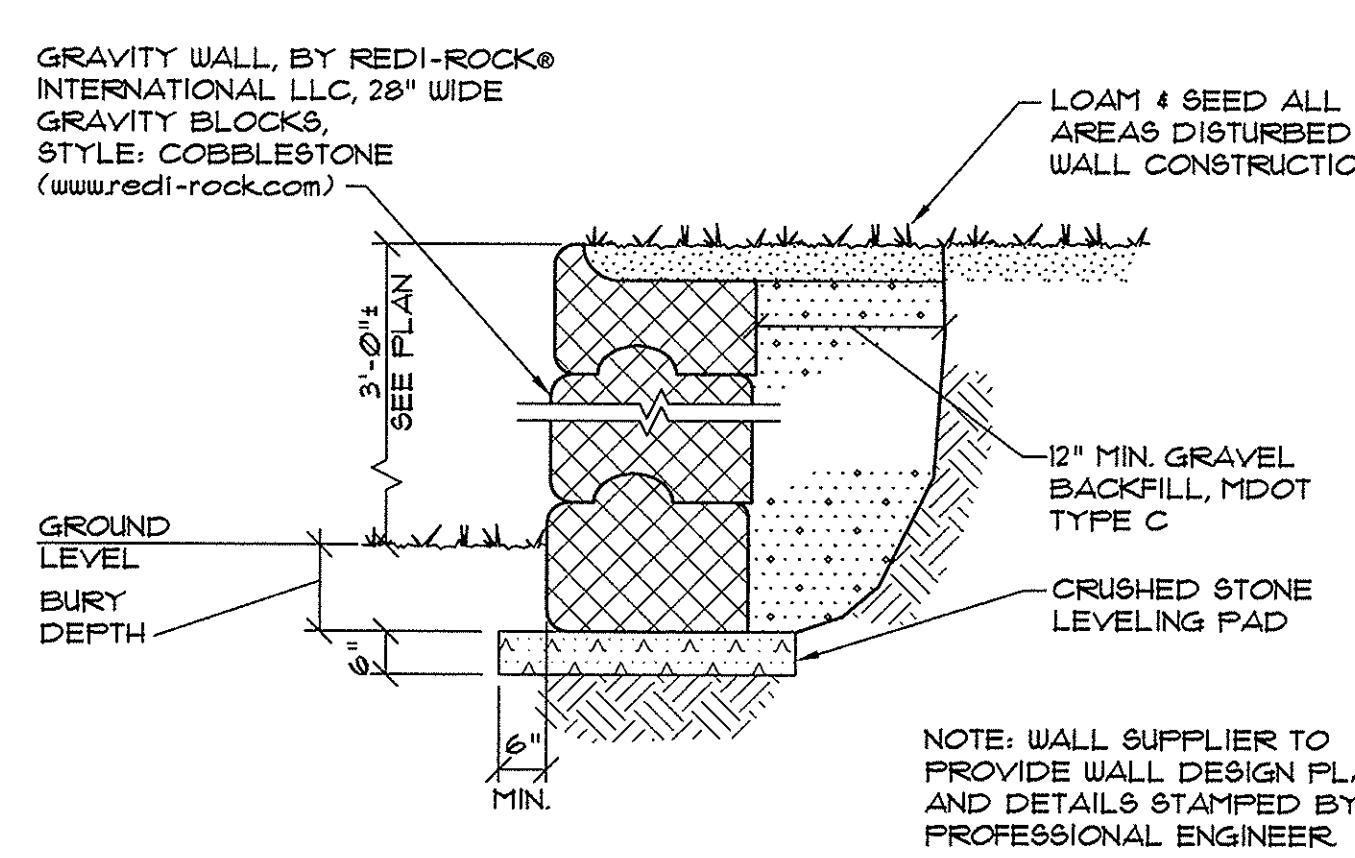
C2.2



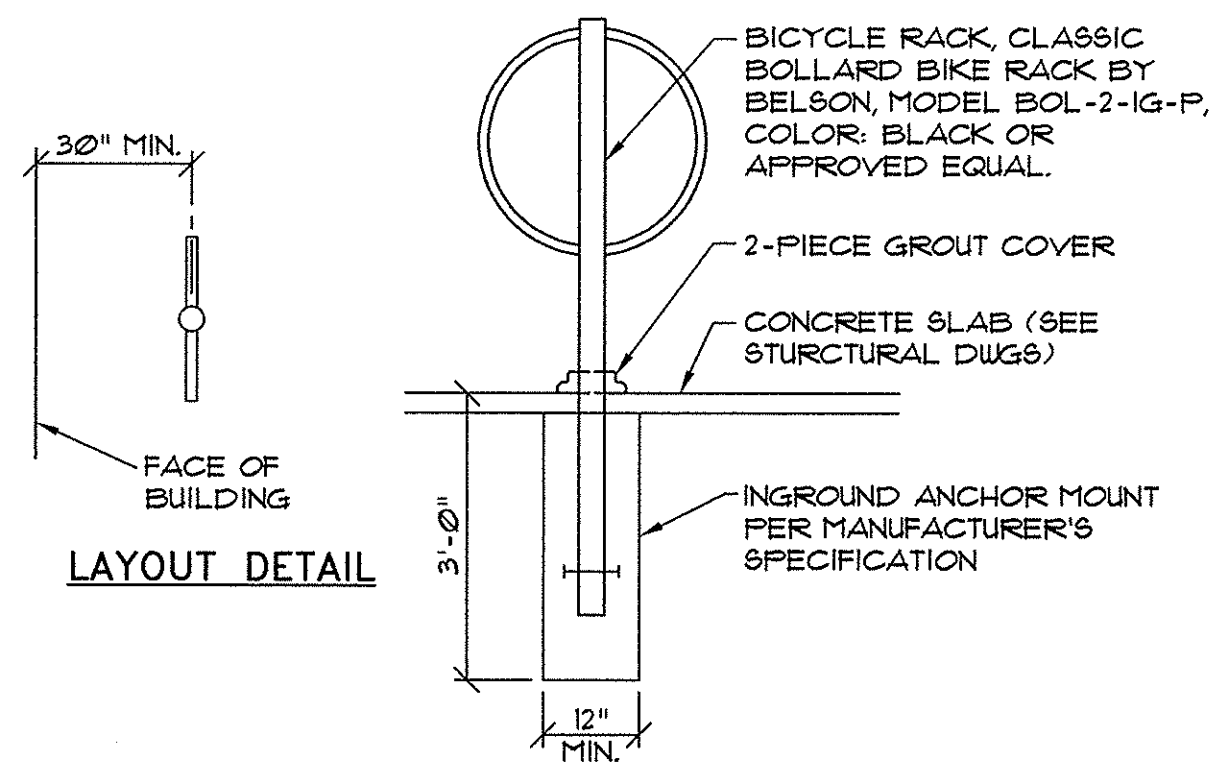
11 SLOPED GRANITE CURB SECTION ON-SITE NOT TO SCALE



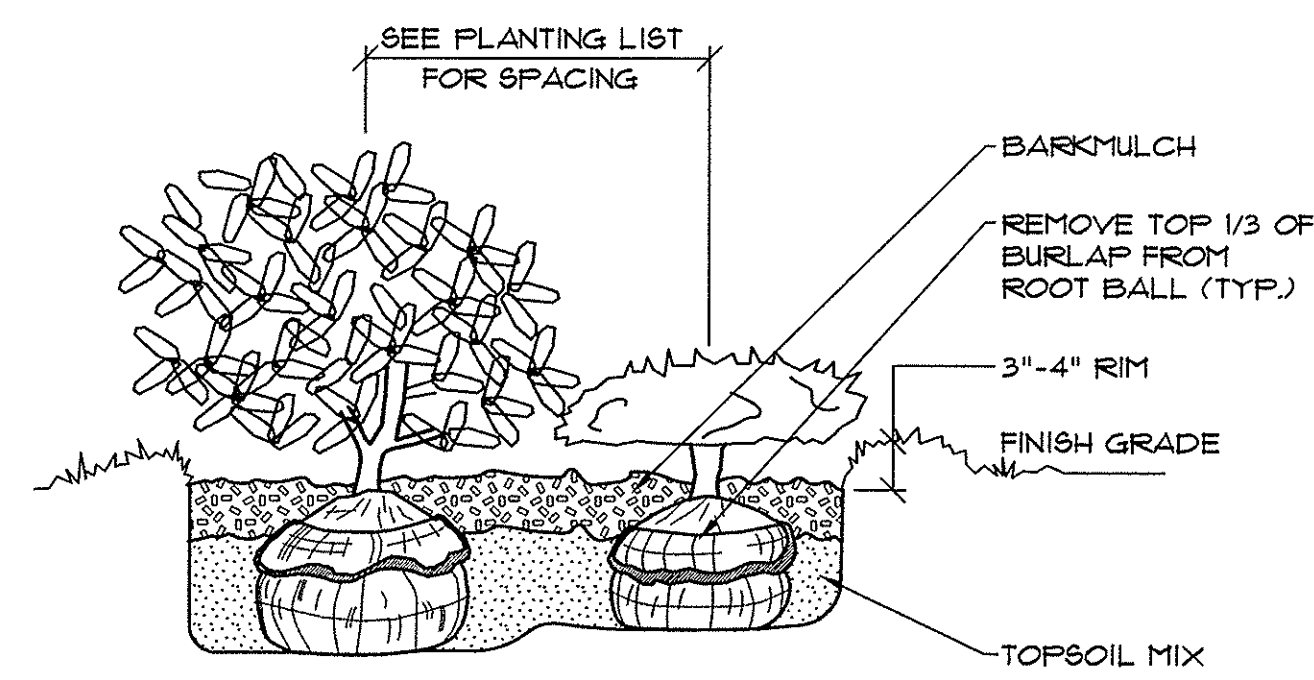
8 GAS PIPING TRENCH SECTION NOT TO SCALE



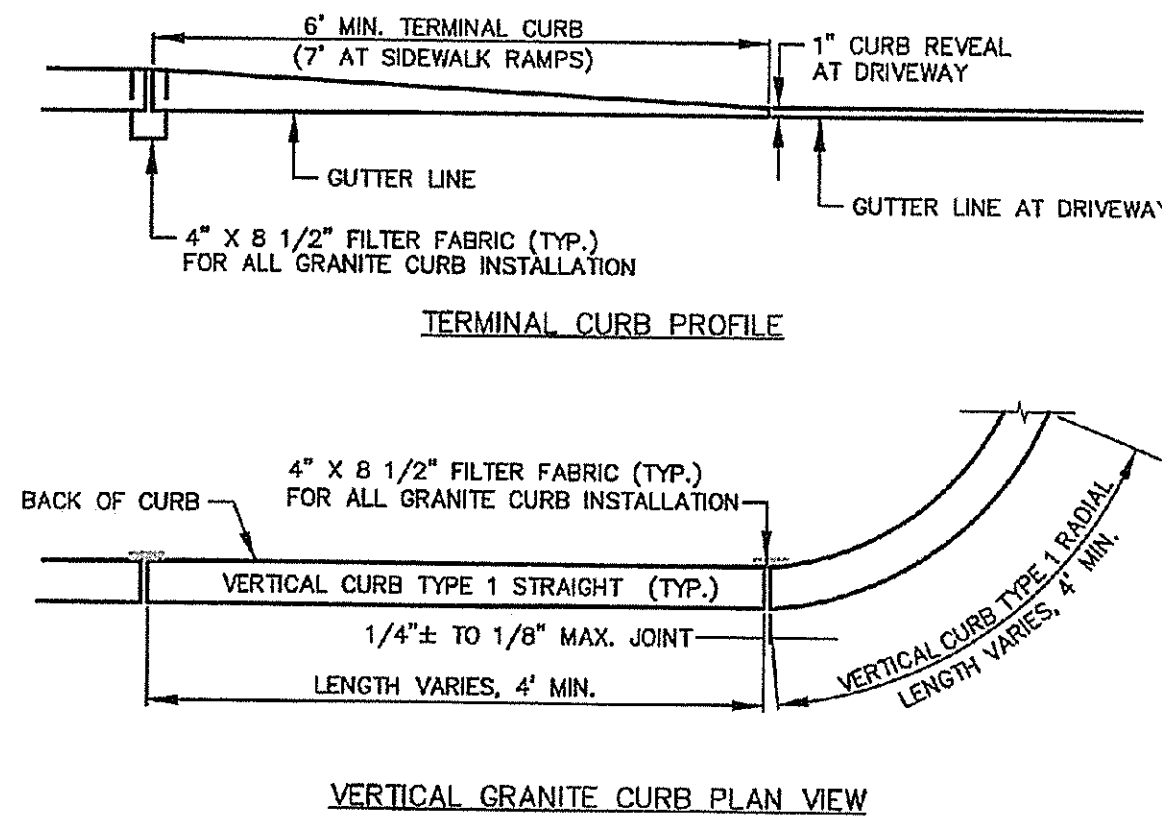
7 MODULAR BLOCK WALL NOT TO SCALE



9 BIKE RACK DETAIL



7 SHRUB PLANTING DETAIL



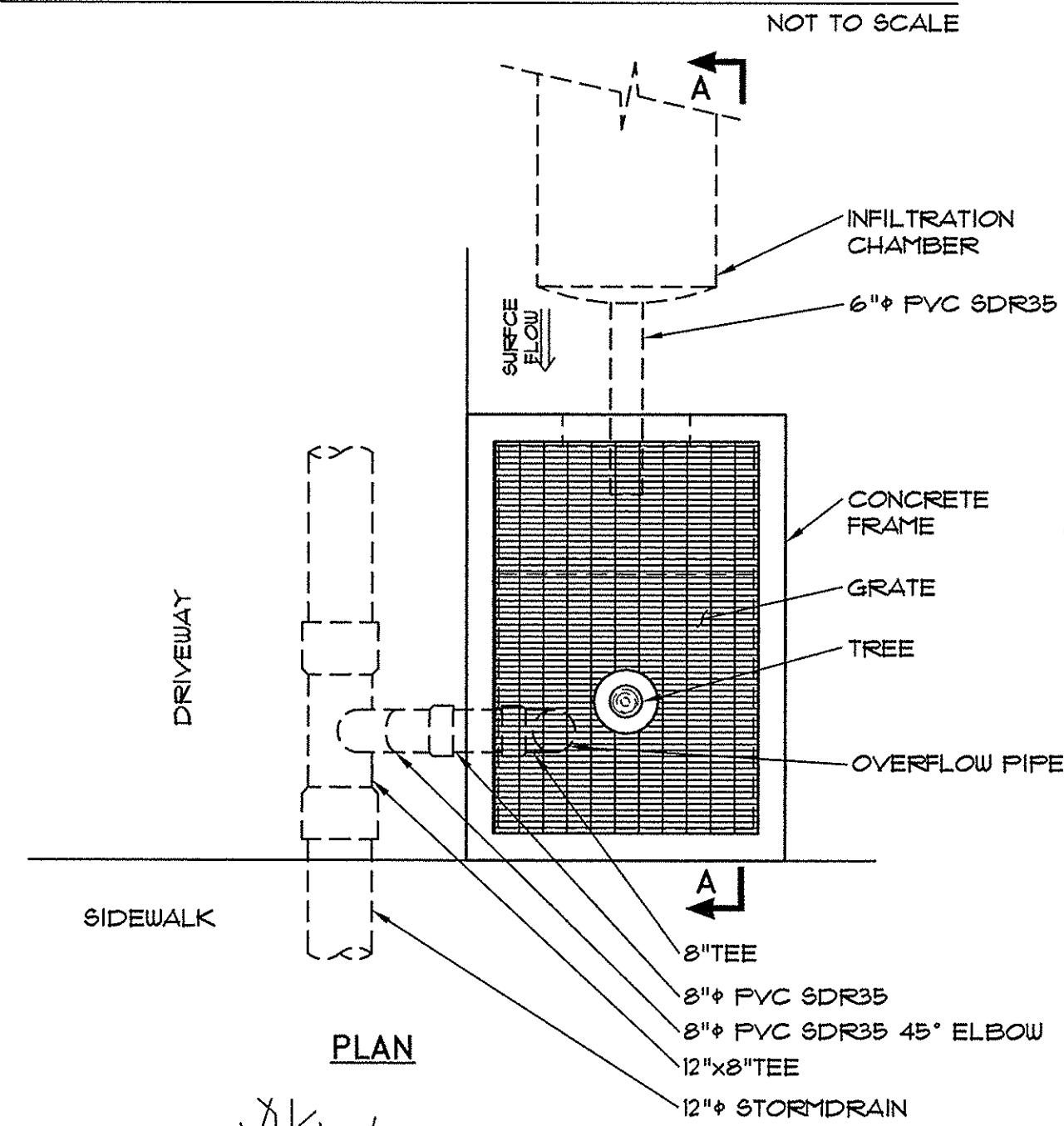
4 VERTICAL GRANITE CURB INSTALLATION IN EXISTING STREET (I-17)

CONSTRUCTION	USE
<ul style="list-style-type: none"> 1 1/4" HMA MDOT 9.5mm 2 1/4" HMA MDOT 19.2mm 4" COMPACTED AGGREGATE BASE, MDOT 103.06(a) TYPE A 15" COMPACTED AGGREGATE SUBBASE, MDOT 103.06(b) TYPE D COMPACTED SUBGRADE 	<p>BITUMINOUS</p> <p>FULL DEPTH CONSTRUCTION</p>
<ul style="list-style-type: none"> 4" TOPSOIL, NO STONES OVER 3/4" DIA. GRANULAR MATERIAL IN FILL AREAS COMPACTED SUBGRADE 	<p>GRASS</p> <p>ALL DISTURBED AREAS</p>
<ul style="list-style-type: none"> 3" BARKMULCH PREPARED SUBGRADE 	<p>PLANT BED</p> <p>BARKMULCH</p>

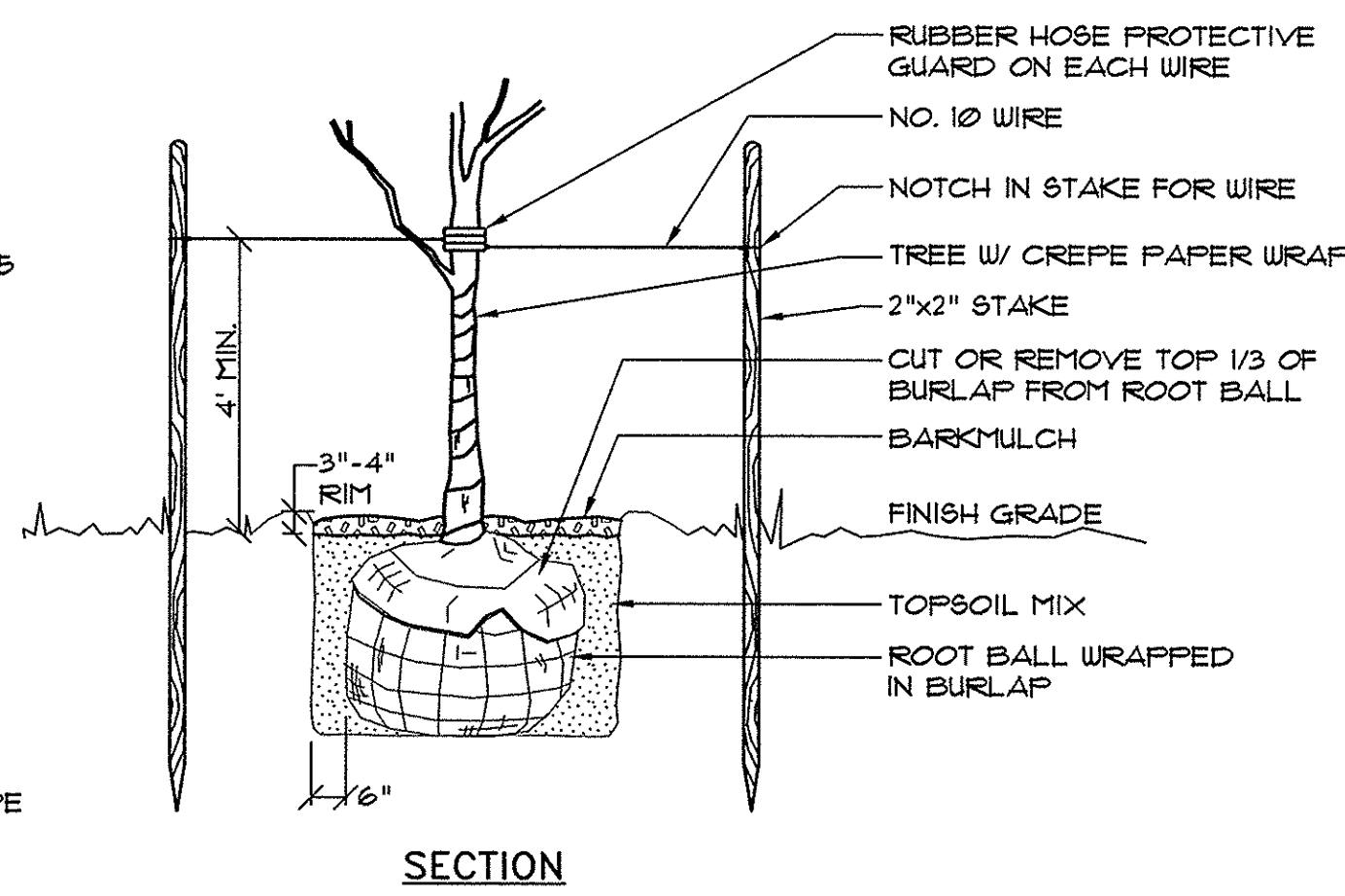
NOTES:

- HMA = HOT MIX ASPHALT. MDOT = MAINE DEPARTMENT OF TRANSPORTATION.
- ALL COURSE THICKNESS AFTER FINAL COMPACTION.

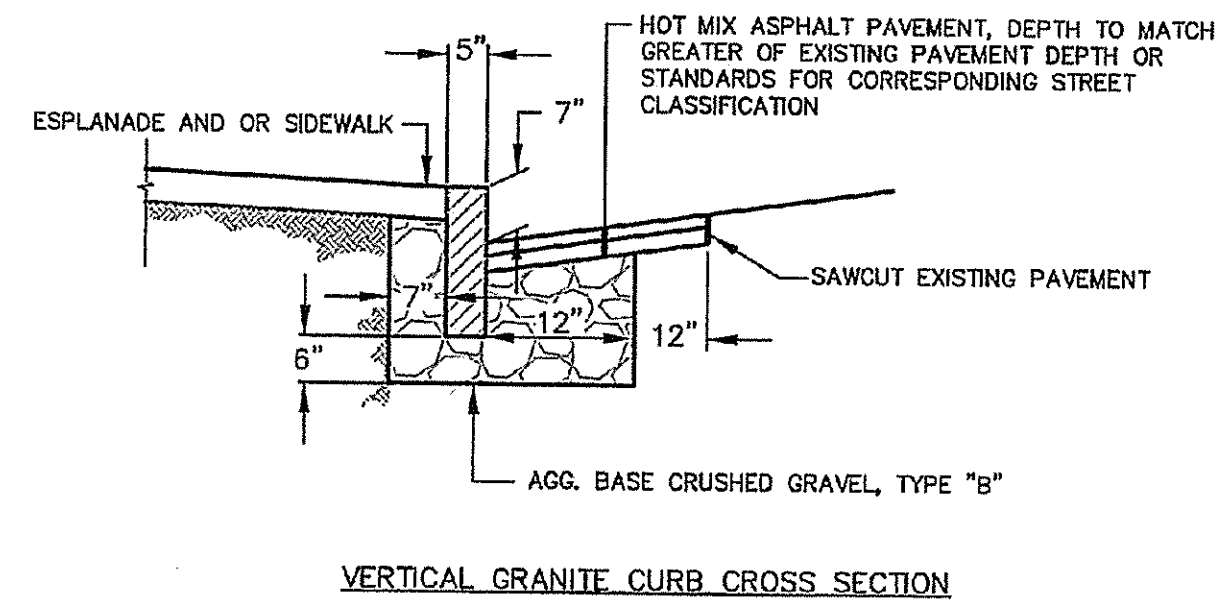
1 SCHEDULE OF SURFACE FINISHES ON-SITE



10 TREE FILTER DETAILS



8 TREE PLANTING DETAIL



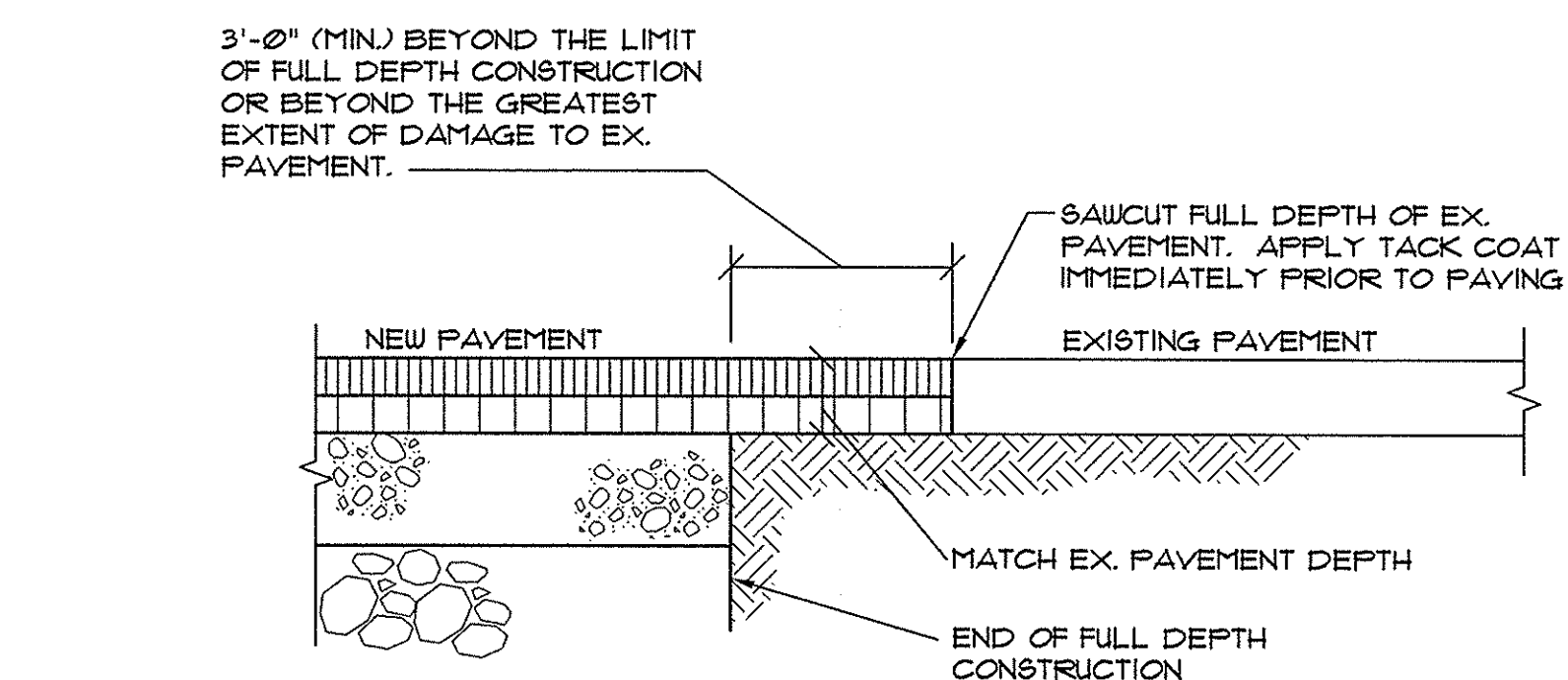
5 BRICK SIDEWALK RAMP WITH BITUMINOUS BASE (I-10)

BRICKS TO BE USED:

NEW CONSTRUCTION:
4"x8" PINE HALL PATHWAY PAVEMENT BRICK; MFG. BY PINE HALL BRICK CO., MADISON, NORTH CAROLINA. LACHANCE ITEM # 193623, PINE HALL PATHWAY PAVEMENT BRICK.

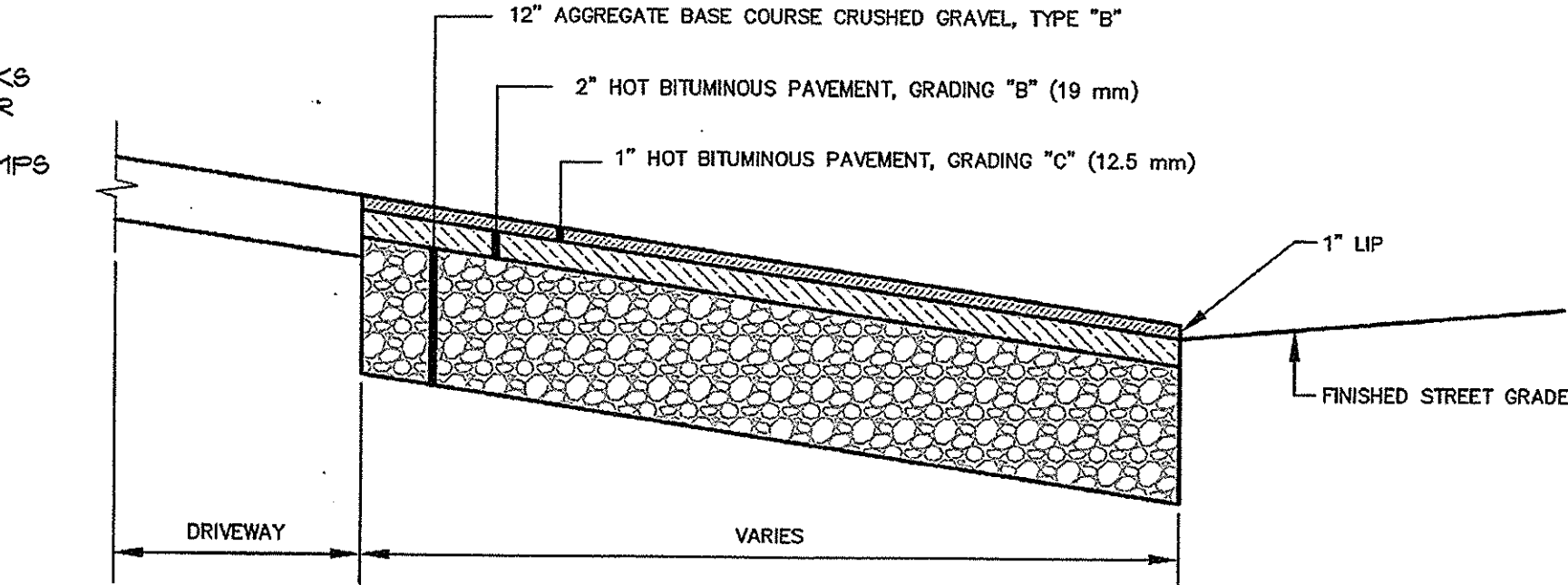
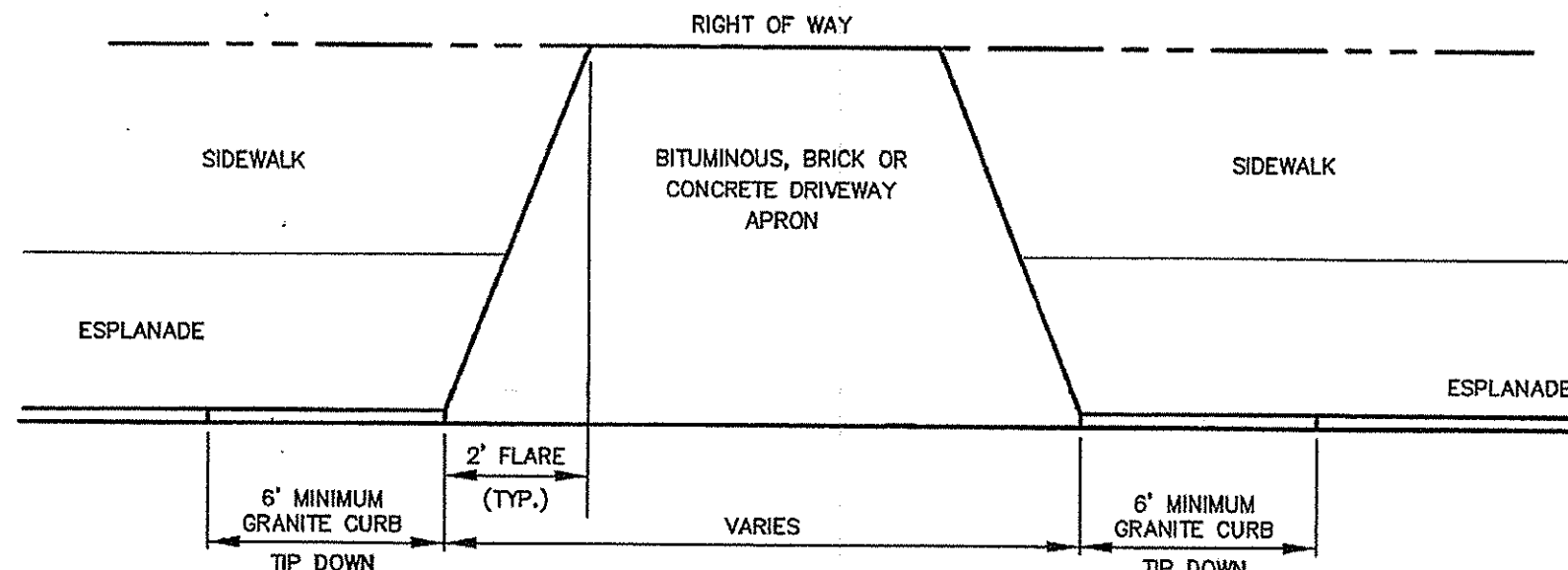
REPAIR / MAINTENANCE TO EXISTING BRICK SIDEWALKS, VERMONT PAVEMENT SUPPLIED BY GAGNE AND SONS. SPECIFICATION NUMBER: VERMONT BACKER BRICK, ITEM NUMBER # YBBB

2 PAVEMENT CUTTING & MATCHING SECTION

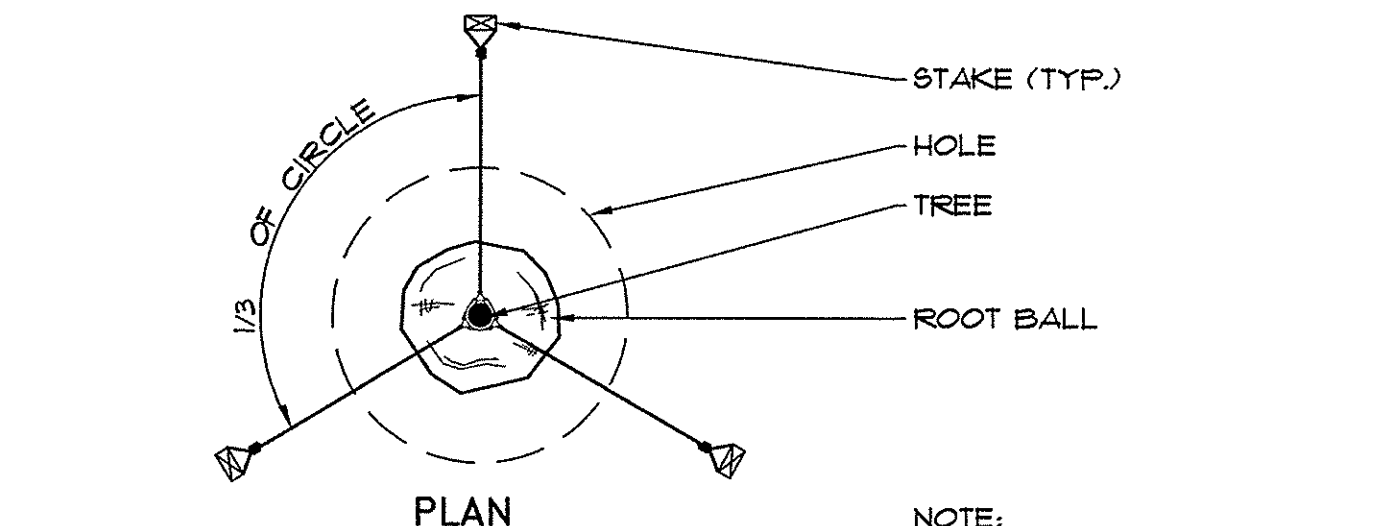


NOTE: MATCH GRADE OF EXISTING DRIVEWAY AT R. O. W. LINE, EXCEPT WHEN DIRECTED OTHERWISE BY CITY ENGINEER.

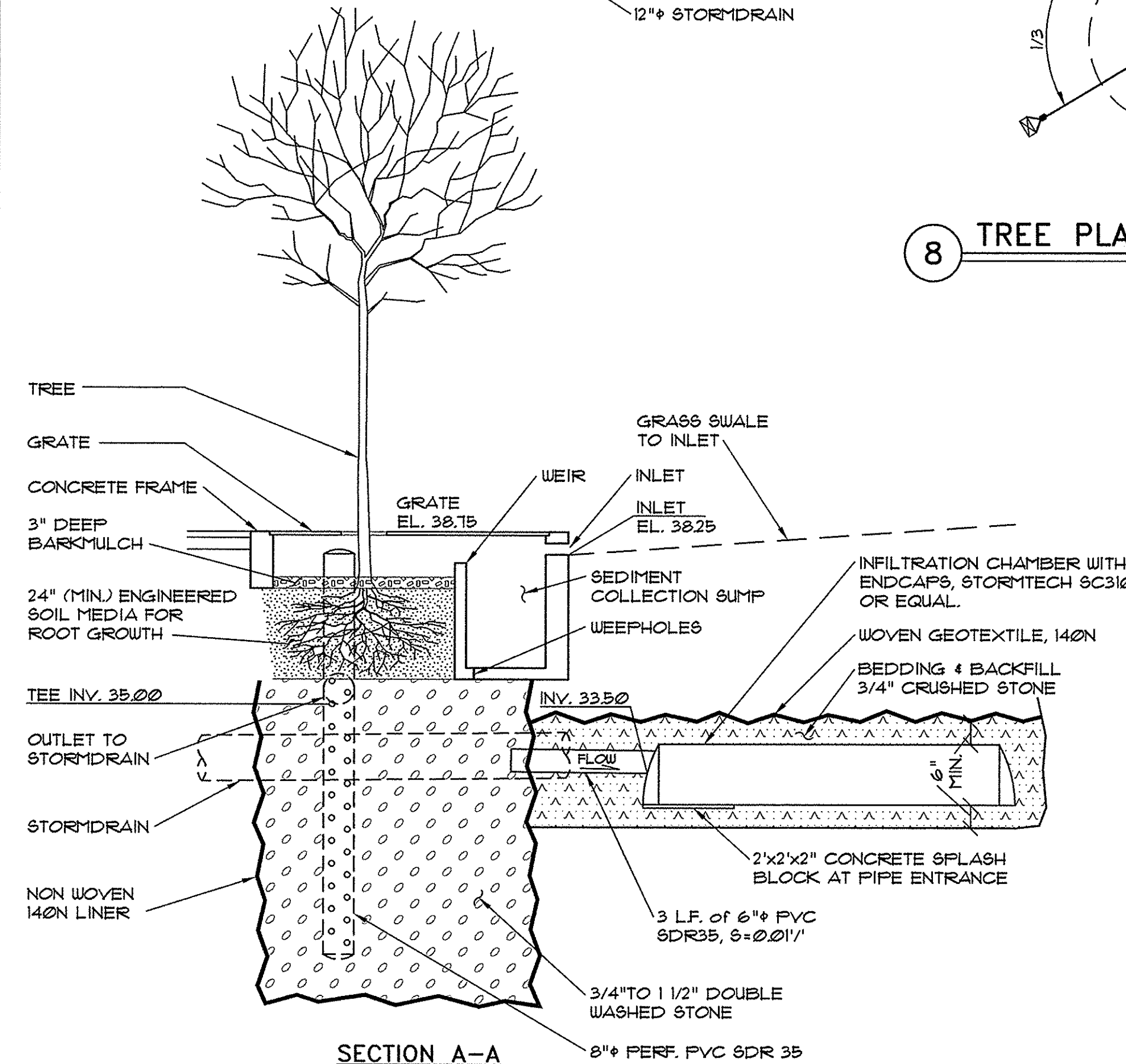
3 DRIVEWAY APRON LAYOUT (I-9)



6 BITUMINOUS DRIVEWAY APRON (I-13)



11 CABLE TRENCH SECTION



NOTE: SEE SHEET C2.4 FOR ADD'L INFORMATION ABOUT THE TREE FILTER SYSTEM

NOTES:

- INSTALLATION SHALL NOT ALLOW INTER-TWINING OF CABLES.
- DIRECT BURY CABLES EXCEPT UNDER PAVED AREAS.
- PROVIDE SCH. 40 PVC CONDUIT UNDER PAVED AREAS, EXTEND CONDUIT 5'-0" BEYOND EDGE OF PAVEMENT.

REV.	DATE	DESCRIPTION
3	12/9/13	REV'D PER CONDITIONS OF APPROVAL & STAFF COMMENTS
2	10/21/13	REV'D PER CITY REVIEW
1	10/1/13	SUBMITTED FOR FINAL APPROVAL

133 YORK, LLC
110 MARGINAL WAY, SUITE 292, PORTLAND

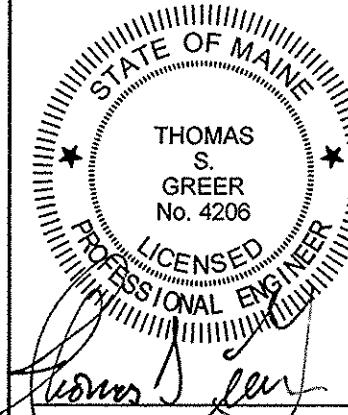
133 YORK STREET CONDOMINIUMS
133 YORK STREET, PORTLAND ME

PINKHAM & GREER

CONSULTING ENGINEERS
28 WANNAH AVENUE
PORTLAND, MAINE

DETAILS

SCALE: AS SHOWN	DRN BY: JDC
DATE: JULY 23, 2013	DESG BY: TSG
PROJECT: 13105	CHK BY: TSG



12/9/13