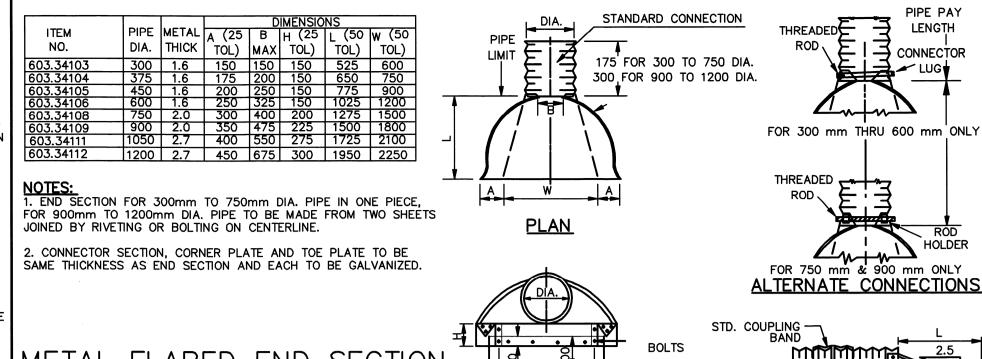


STONE SIZE AND MAT DIMENSIONS DETAILED ON

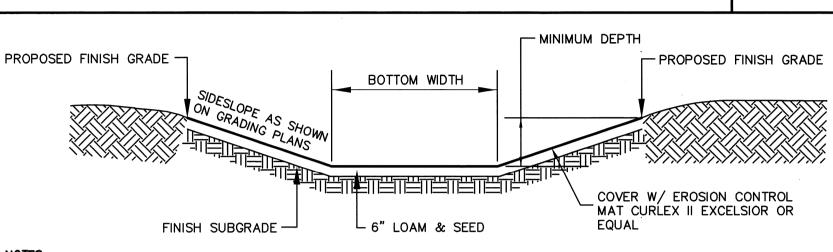
STONE SHALL CONSIST OF SUB-ANGULAR FIELD STONE OR ROUGH UNHEWN QUARRY STONE OF APPROXIMATELY RECTANGULAR SHAPE. FLAT OR ROUND ROCKS ARE NOT ACCEPTABLE. THE STONE SHALL BE HARD AND OF SUCH QUALITY THAT IT WILL NOT DISINTEGRATE ON EXPOSURE TO WATER OR WEATHERING, BE CHEMICALLY STABLE AND IT SHALL BE SUITABLE IN ALL OTHER RESPECTS FOR THE PURPOSE INTENDED. THE BULK SPECIFIC GRAVITY (SATURATED SURFACE-DRY BASIS) OF HE INDIVIDUAL STÒNES 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 COMPOSED PRIMARILY OF THE LARGER STONE SIZE BUT WITH A SUFFICIENT MIXTURE OF OTHER SIZES TO FILL THE PROGRESSIVELY SMALLER VOIDS BETWEEN THE STONES. THE DIAMETER OF THE LARGEST STONE SIZE IN SUCH A MIXTURE SHALL BE 1.5 TIMES THE D50 SIZE.

STONE APRON DETAIL NOT TO SCALE



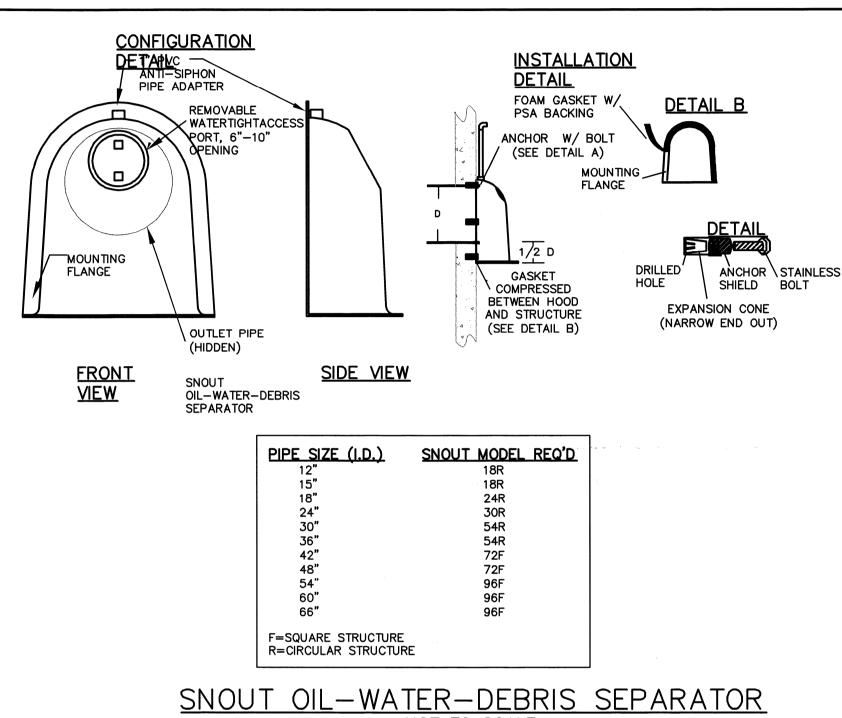
METAL FLARED END SECTION 300 C-C NOT TO SCALE MAX. SPCG. **ELEVATION** TYPICAL CROSS-SECTION **CONFIGURATION**



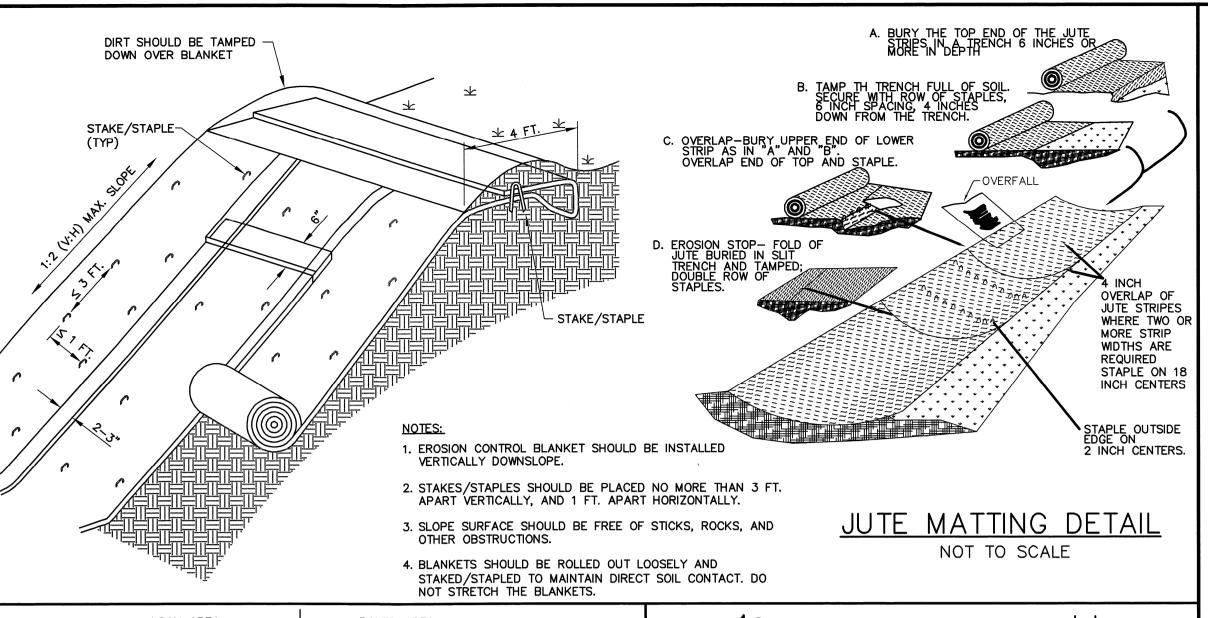
THE FOUNDATION AREA OF THE WATERWAY SHALL BE CLEARED AND GRUBBED OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL. MATERIALS REMOVED SHALL BE DISPOSED OF SO THEY WILL NOT INTERFERE WITH THE CONSTRUCTION OR PROPER FUNCTIONING OF THE WATERWAY

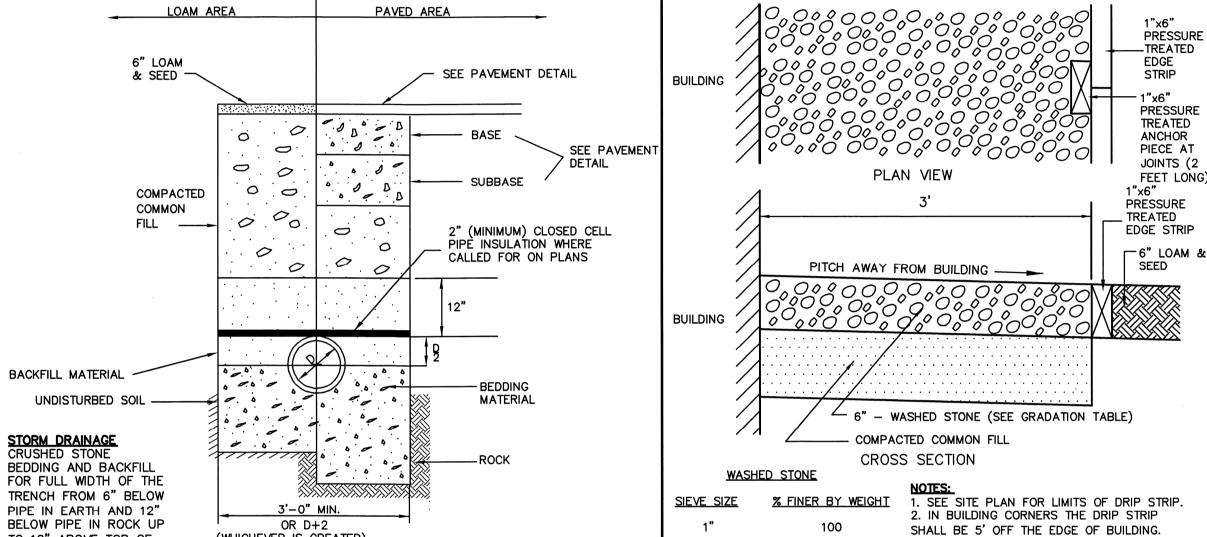
- 2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA. THE WATERWAY SHALL BE FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW. EARTH FILLS REQUIRED TO MEET SUBGRADE REQUIREMENTS BECAUSE OF OVER EXCAVATION OR TOPOGRAPHY SHALL BE COMPACTED TO THE SAME DENSITY AS THE SURROUNDING SOIL TO PREVENT UNEQUAL SETTLEMENT THAT COULD CAUSE DAMAGE TO THE COMPLETED WATERWAY. EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE EROSION AND AIR AND WATER POLLUTION. ALL APPROPRIATE STATE AND LOCAL LAWS AND REGULATIONS SHALL BE COMPLIED WITH FOR INSTALLATION.
- VEGETATION SHALL BE ESTABLISHED IN THE SWALE PRIOR TO ALLOWING STORMWATER RUNOFF TO FLOW THROUGH THE SWALE MAINTENANCE OF THE VEGETATION IN THE GRASSED WATERWAY IS EXTREMELY IMPORTANT IN ORDER TO PREVENT RILLING, EROSION, AND FAILURE OF THE WATERWAY. MOWING SHOULD BE DONE FREQUENTLY ENOUGH TO CONTROL ENCROACHMENT OF WEEDS AND WOODY VEGETATION AND TO KEEP THE GRASSES IN A VIGOROUS CONDITION. THE VEGETATION SHOULD NOT BE MOWED TOO CLOSELY SO AS TO REDUCE THE EROSION RESISTANCE IN THE WATERWAY.
- THE WATERWAY SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE THE CONDITION OF THE WATERWAY. RILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND REVEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.
- PERIODIC APPLICATIONS OF LIME AND FERTILIZER MAY BE NEEDED TO MAINTAIN VIGOROUS GROWTH (TO BE APPLIED IN ACCORDANCE WITH THE NHDES COMPREHENSIVE SHORELAND PROTECTION ACT, TOWN OF DURHAM SHORELAND PROTECTION OVERLAY DISTRICT, AND THE LANDSCAPE MAINTENANCE PLAN).





NOT TO SCALE





3/4"

- STONE BERMED LEVEL LIP

SPREADER

90 - 100

DRIP STRIP

NOT TO SCALE

Percent By Weight

100

84-100

68-83

42-55

8-12

ssing Square Mesh Sieves

Berm Stone Size

Sieve Designation (US Customary)

12 in

6 in

3 in

1 in

(WHICHEVER IS GREATER)

DRAINAGE TRENCH

NOT TO SCALE

VV (SLOPE VARIES)

SHALLOW THROUGH ---

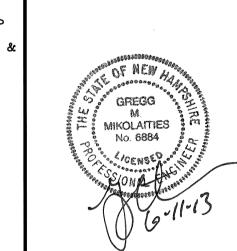
STONE BERMED LEVEL LIP

SPREADER DETAIL

NOT TO SCALE

TO 12" ABOVE TOP OF

PIPE.



177 Corporate Drive

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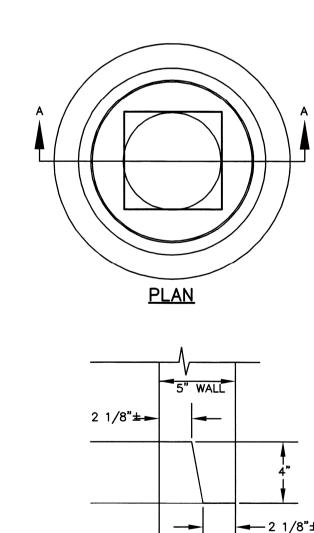
1911-2011

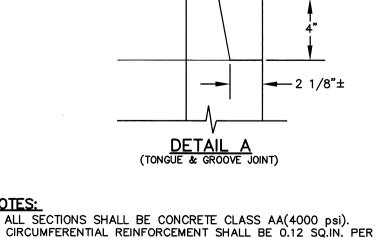
Portsmouth, NH 03801

Peak Campus Development,

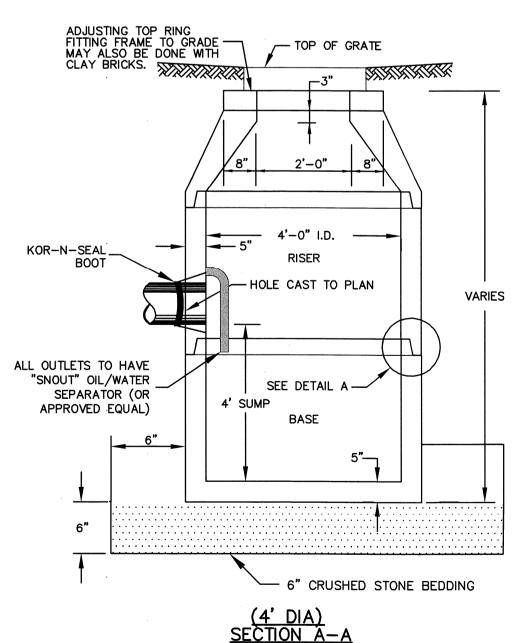
The Lodges at West Edge

Durham, NH

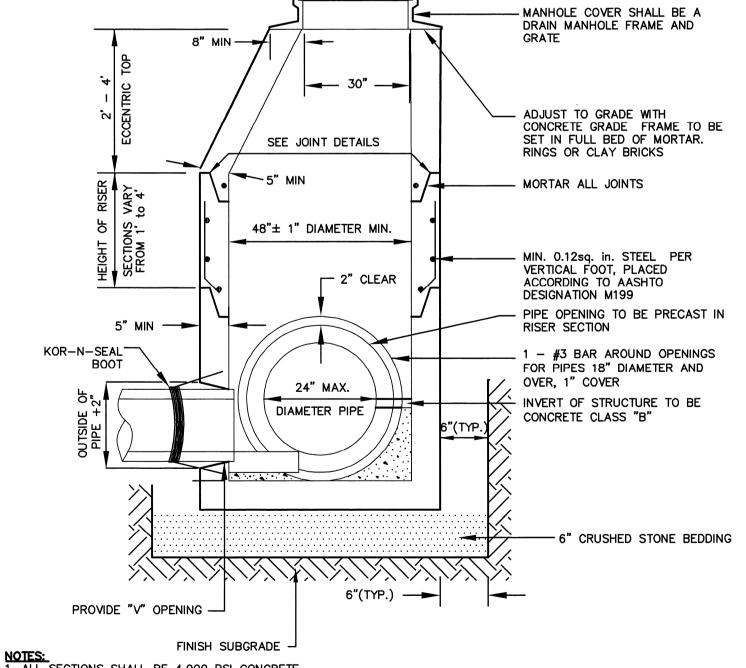




1. ALL SECTIONS SHALL BE CONCRETE CLASS AA(4000 psi).
2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ.IN. PER LINEAR FT. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL. 3. THE TONGUE AND GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT. 4. RISERS OF 1', 2', 3' & 4' CAN BE USED TO REACH DESIRED DEPTH. 5. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING. 6. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.



CATCHBASIN NOT TO SCALE

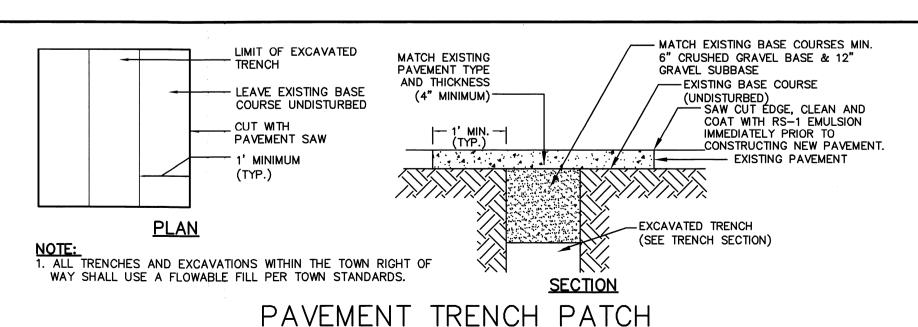


NOTES:

1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE. 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL. 3. THE TONGUE AND THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO .12 SQUARE INCHES PER LINEAR FOOT. 4. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING.

5. CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6" MINIMUM THICKNESS).
6. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.

DRAIN MANHOLE NOT TO SCALE



PAVEMENT TRENCH PATCH NOT TO SCALE

| E | 6/11/13 | ISSUED FOR BUILDING PERMIT |
|--------------|----------|----------------------------|
| D | 12/10/12 | REVISED FOR AoT SUBMISSION |
| С | 11/1/12 | REVISED FOR PB SUBMISSION |
| В | 9/26/12 | REVISED FOR PB SUBMISSION |
| Α | 8/22/12 | PB SUBMISSION |
| Mark | Date | Description |
| PROJECT NO: | | P0637 |
| FILE: | | P0637_DETAILS.dwg |
| DRAWN BY: | | KAM/SLK1 |
| CHECKED: | | JMP2 |
| APPROVED BY: | | GMM |
| | | |

DETAILS SHEET

SCALE: AS SHOWN SHEET 18