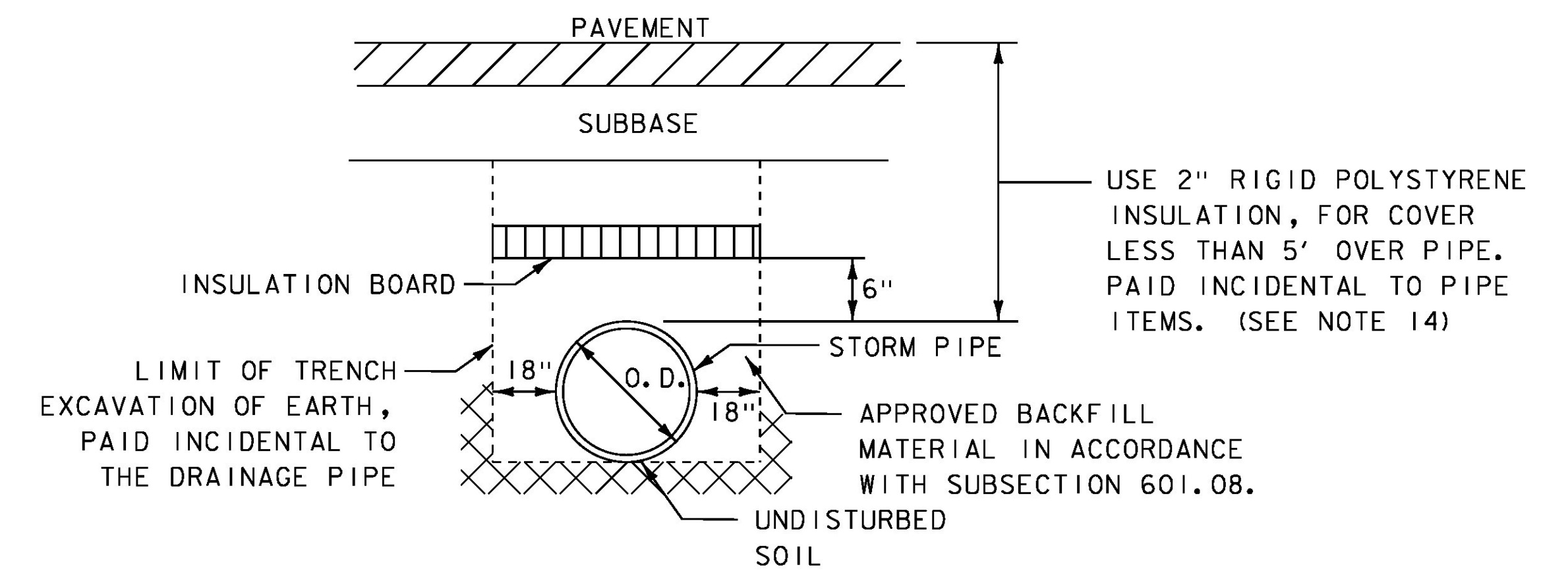


**PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE DETAIL**

N. T. S.

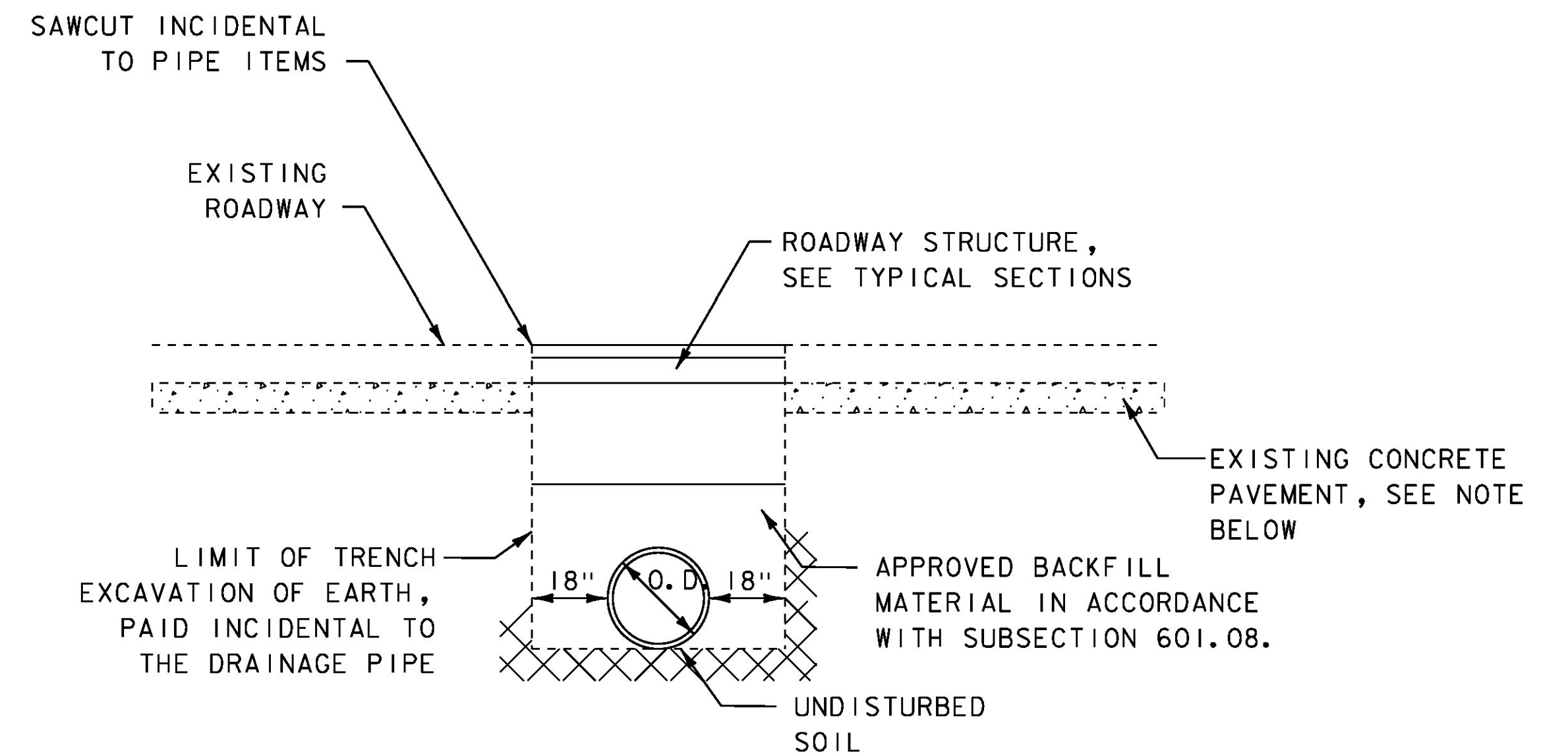
NOTES:

1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND ASTM C-478.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH: 4000 PSI AT 28-DAYS.
3. STEEL REINFORCING SHALL CONFORM TO ASTM A185 OR A82 FOR HS25 LOADING.
4. THE PRECAST CATCH BASIN SECTION SHALL BE COATED WITH A DAMP PROOFING OR SHALL BE CAST WITH A WATERPROOFING CONCRETE ADMIXTURE.
5. FACE OF PIPE SHALL NOT PROJECT MORE THAN 2" OR LESS THAN 1" FROM INSIDE WALL OF STRUCTURE.
6. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 1' OF OUTSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS-SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 6" TO JOINTS. THE STRUCTURE SHALL BE UPSIZED SHOULD THE PRECAST CONCRETE MANUFACTURER DEEM IT NECESSARY. NO ADDITIONAL PAYMENT WILL BE MADE FOR INCREASED STRUCTURE DIAMETER.
7. FITTING FRAME TO FINAL GRADE MAY BE DONE WITH PRECAST CONCRETE GRADE RINGS OR BUILDING BRICK. NUMBER OF COURSES AS REQUIRED, 12" MAXIMUM.
8. ALL PIPE INVERTS AND PENETRATION ANGLES SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
9. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT. EACH JOINT SHALL BE ASSEMBLED USING AN APPROVED BUTYL MASTIC SEALANT.
10. PROVIDE FLEXIBLE RUBBER SLEEVES CONFORMING TO ASTM C-923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO EACH STRUCTURE. SLEEVES SHALL BE SET INTO PRECAST STRUCTURE BY THE MANUFACTURER FOR ALL PIPE PENETRATIONS.
11. CATCH BASIN GRATE ORIENTATION SHALL BE IN ACCORDANCE WITH VTRANS STANDARD DRAWING D-11 FOR TYPE D OR TYPE E GRATES.
12. TRENCH EXCAVATION FOR INSTALLATION OF CATCH BASINS SHALL BE PAID AT THE UNIT BID PRICE FOR ITEM 204.20, TRENCH EXCAVATION OF EARTH.
13. POLYSTYRENE INSULATION BOARD SHALL MEET REQUIREMENTS OF SUBSECTION 735.01.



**DRAINAGE PIPE TRENCH EXCAVATION DETAIL**

N. T. S.



**TRANSVERSE TRENCH IN CONCRETE**

N. T. S.

NOTE:  
THE REMOVAL OF ANY EXISTING CONCRETE ROADWAY SHALL BE PAID AS ITEM 204.21, TRENCH EXCAVATION OF ROCK.



PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	STP 019-3(57)
FILE NAME:	PLOT DATE: 08-AUG-2013
PROJECT LEADER: GAE	DRAWN BY: PZA
DESIGNED BY: TFD	CHECKED BY: GAE
<b>DRAINAGE DETAILS DD-01</b>	SHEET 308 OF 392