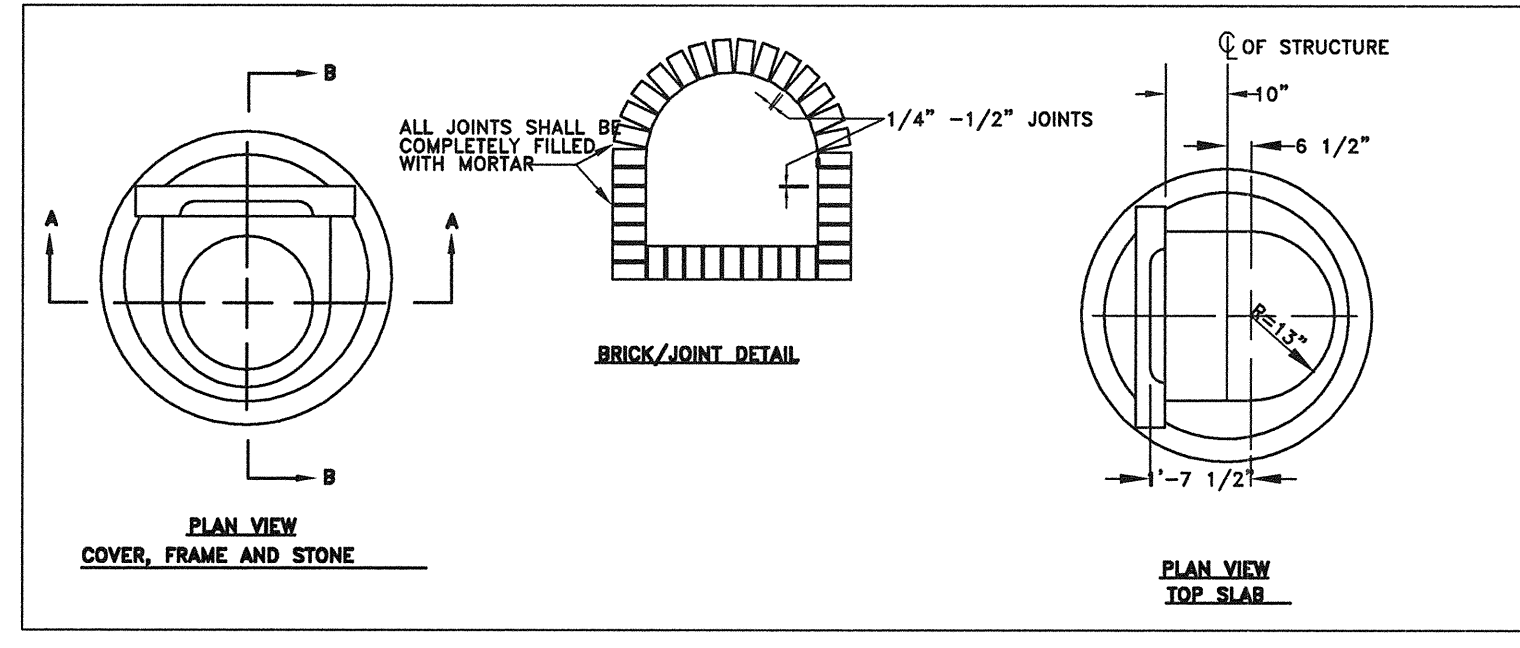
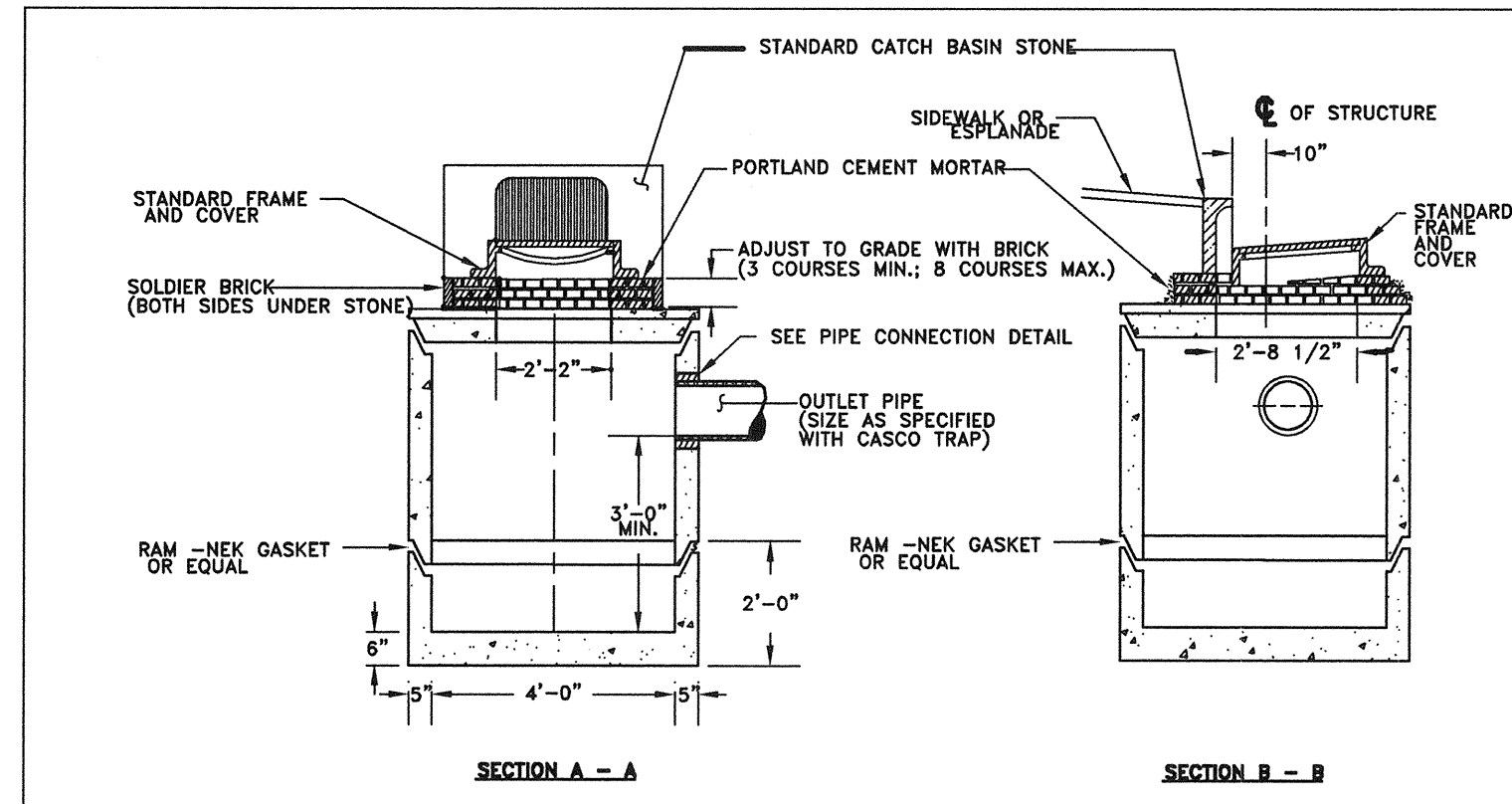
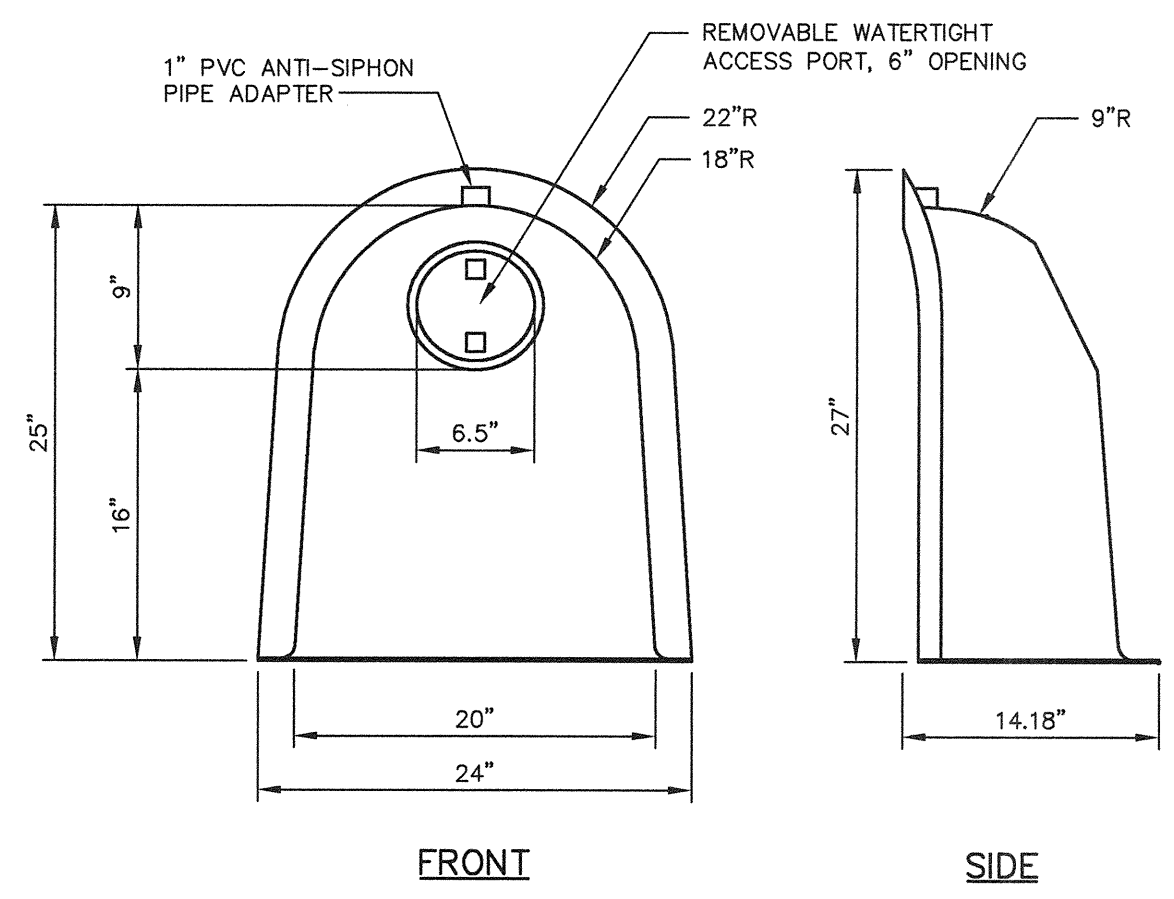
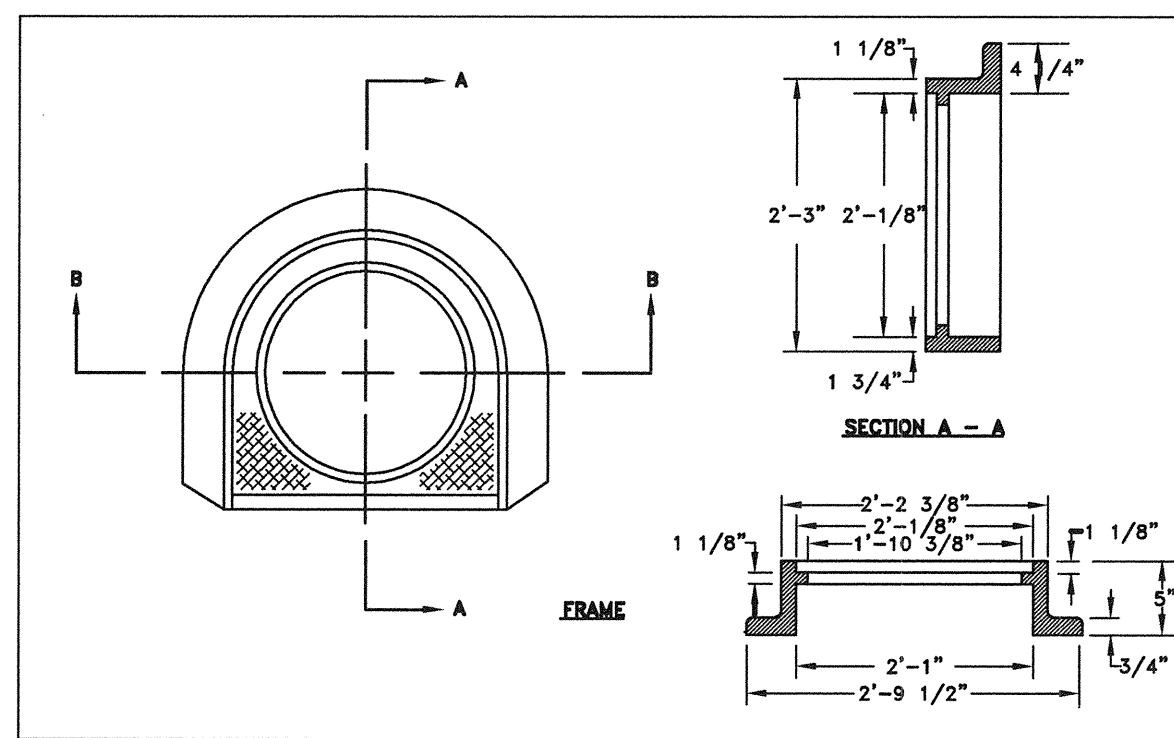
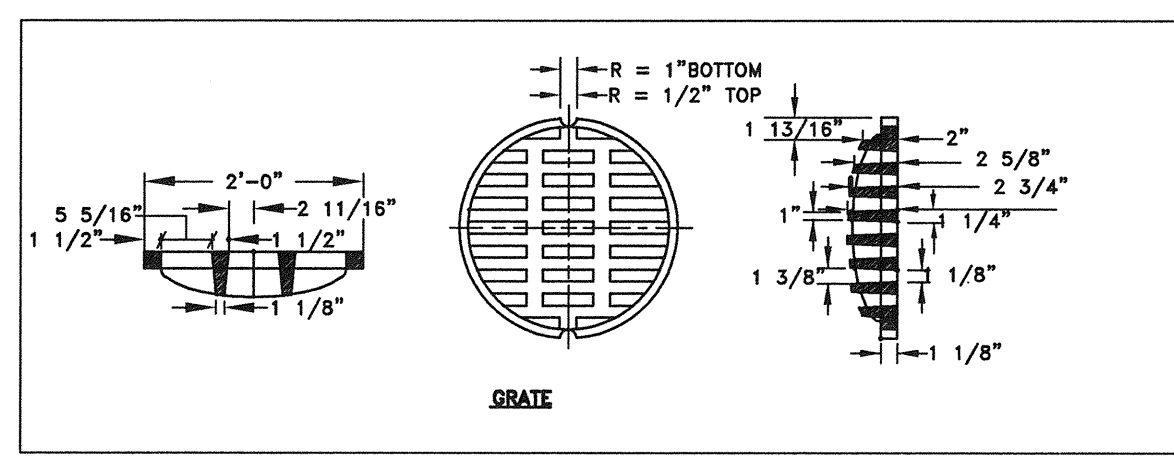


SANITARY LATERAL CONNECTION
N.T.S.

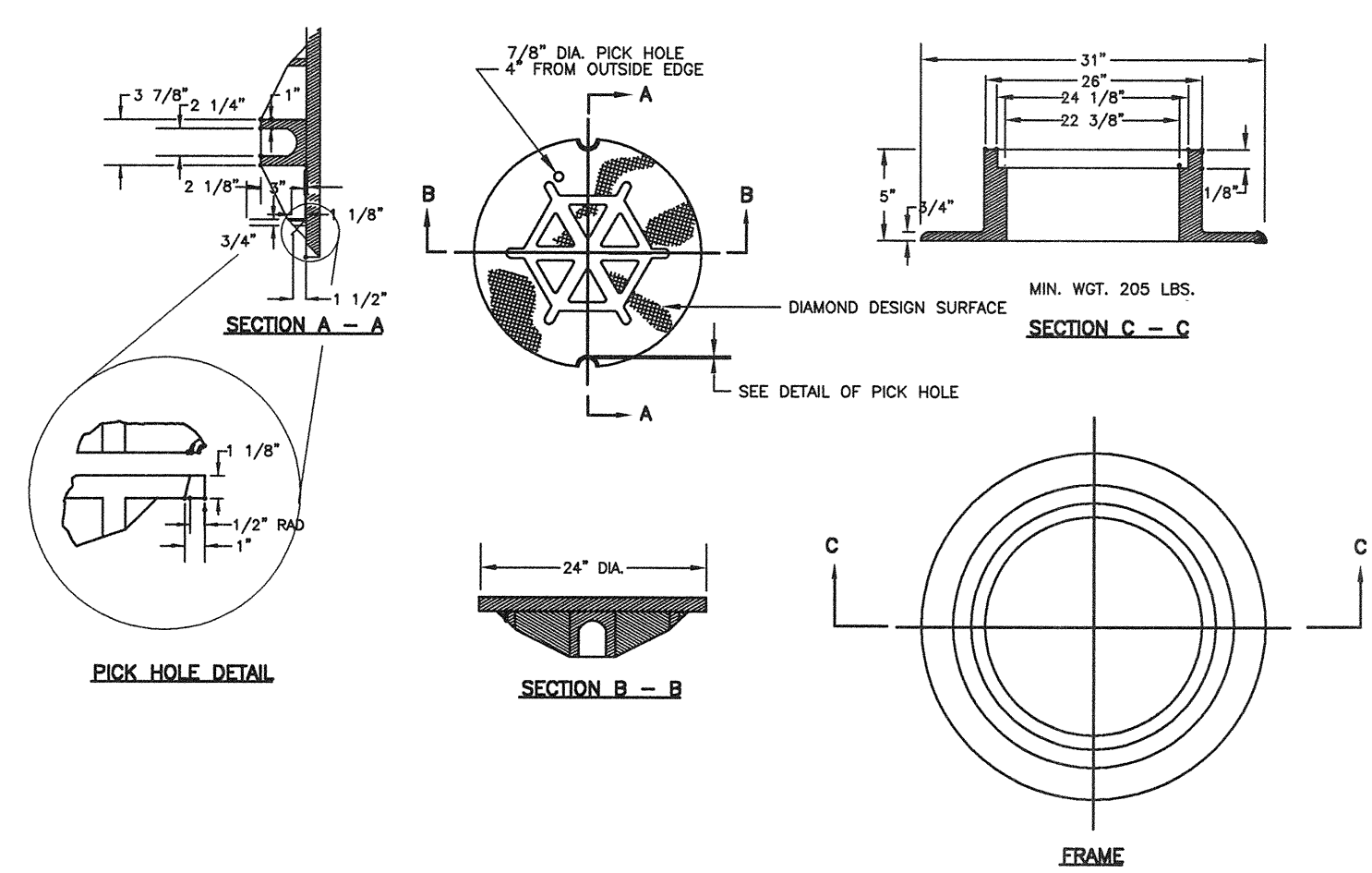


- GENERAL NOTES**
1. ALL CONCRETE SHALL BE A CLASS "A" AND HAVE A MINIMUM ULTIMATE STRENGTH OF 4000 LBS. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
 2. PRECAST REINFORCED CONE BARREL MANUFACTURE PER ASTM SPEC. C-478-67
 3. SEWER BRICK TO CONFORM TO ASTM SPEC. DESIGNATE ON C-32-63, GRADE MA AND SA.
 4. ALL MANHOLES SHALL HAVE A BITUMINOUS WATERPROOFING APPLIED TO THE EXTERIOR SURFACE. IF CONSTRUCTION OF BRICK MASONRY, THE SMOOTH MORTAR SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FINISH 3/8" THICK. AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY SUPPLEMENTAL SPECIFICATIONS SECTION 604.
 5. CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35. ALL PARTS OF CASTINGS, EXCEPT FINISHED SURFACE, SHALL RECEIVE A COAT OF COAL TAR PITCH VARNISH OR ASPHALTUM PAINT WHICH SHALL BE SMOOTH AND TOUGH BUT NOT BRITTLE.
 6. MANHOLES MAY BE CONSTRUCTED OF MASONRY, PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.
 7. ALL PRECAST MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY STATION AND OFFSET, PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.
 8. STORM AND SEWER MANHOLES SHALL HAVE SOLID COVERS WITH ONE DRILLED HOLE.
 9. EXISTING MANHOLE AND CATCH BASIN FRAMES AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND REMAIN THE PROPERTY OF THE CITY OF PORTLAND.
 10. INLET HOODS SHALL BE PROVIDED WITHIN ALL CATCH BASIN PIPES 18" OR LESS.

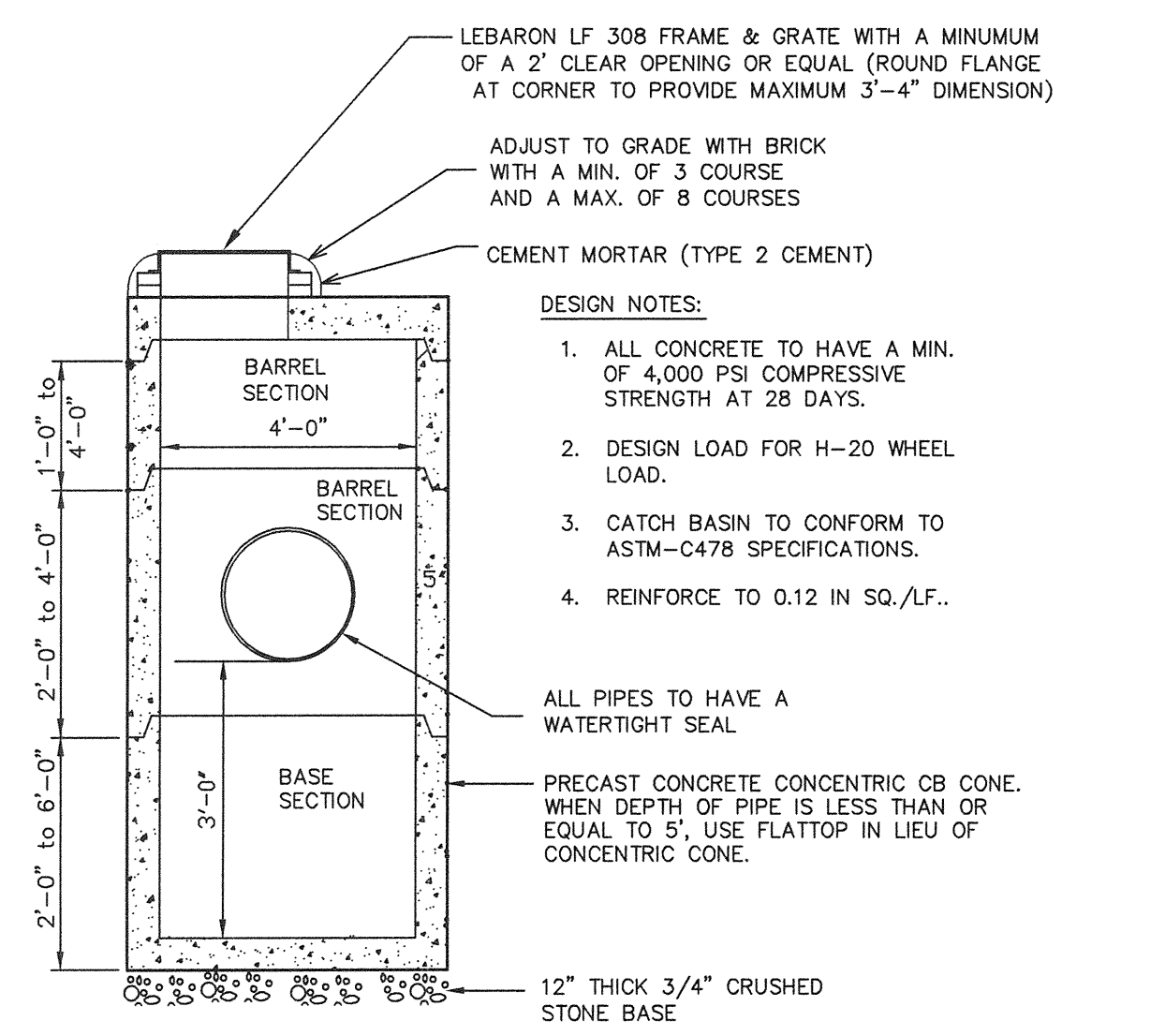
PRECAST CONCRETE CATCH BASIN TYPE "E"
N.T.S.



THE SNOOT - INLET HOOD
N.T.S.



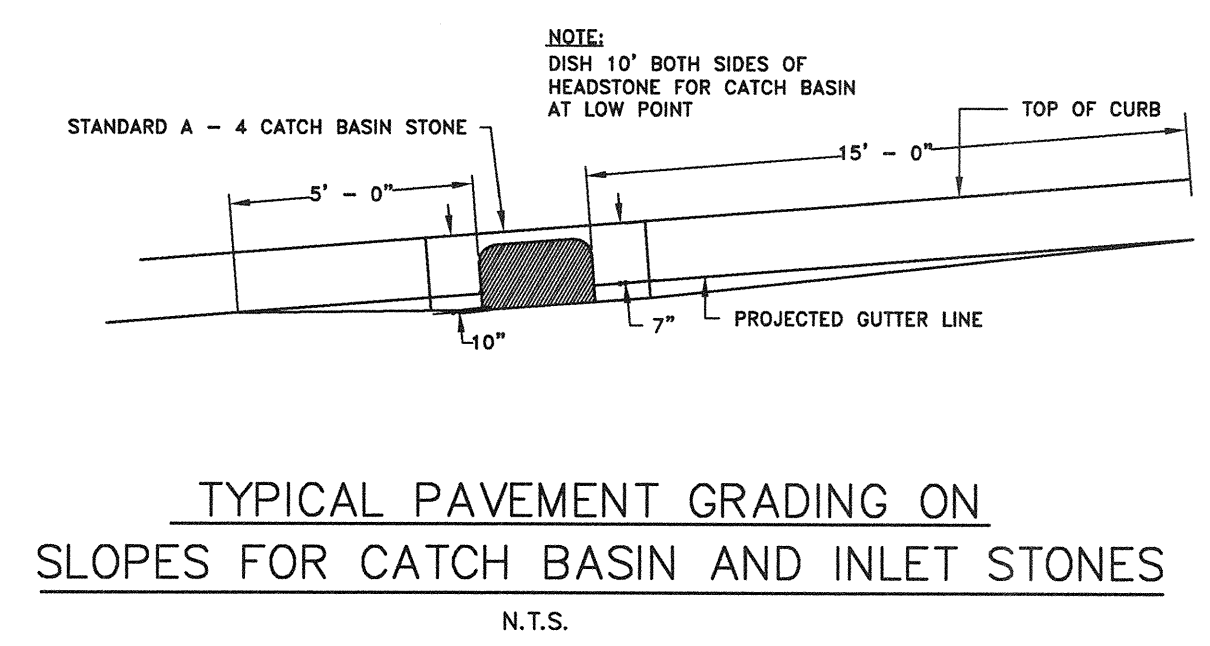
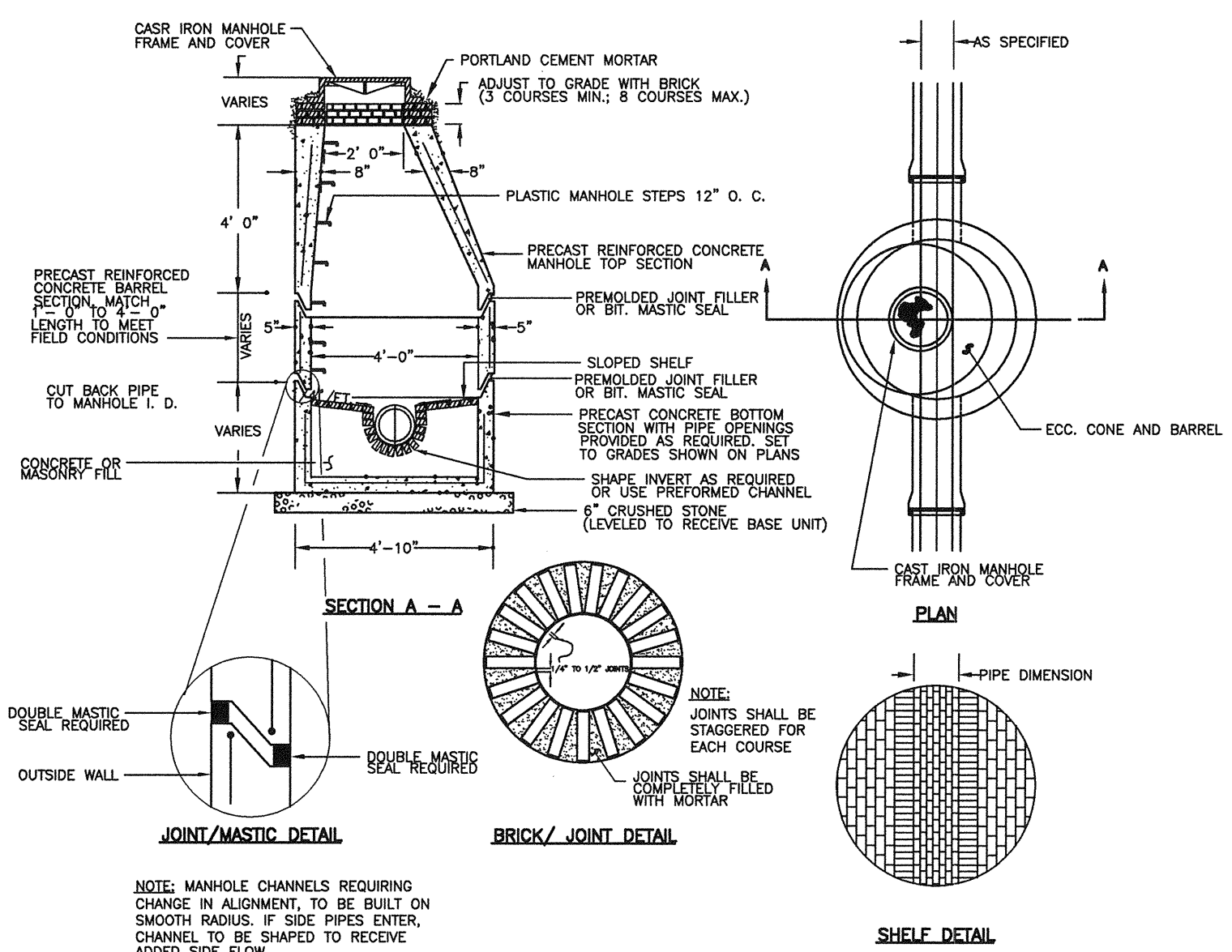
TYPE "A" MANHOLE COVER AND FRAME
N.T.S.



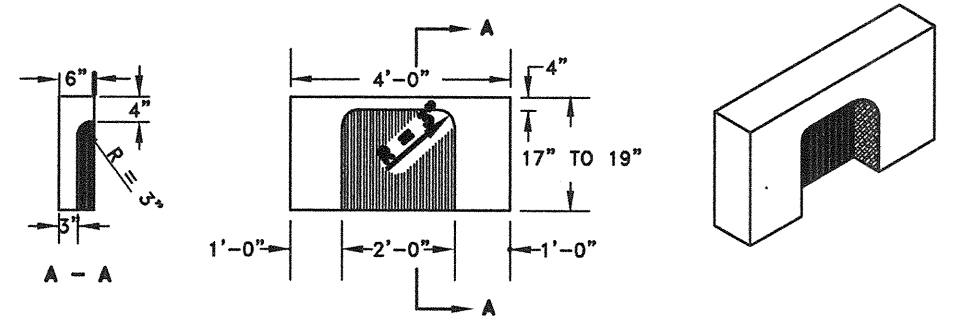
4'-0" PRECAST CATCH BASIN
N.T.S.

- GENERAL NOTES**
1. ALL CONCRETE SHALL BE A CLASS "A" AND HAVE A MINIMUM ULTIMATE STRENGTH OF 4000 LBS. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
 2. ASTM SPEC. C-478-67
 3. C-32-63, GRADE MA AND SA.
 4. APPLIED TO THE EXTERIOR SURFACE, IF CONSTRUCTION OF BRICK MASONRY, THE SMOOTH MORTAR SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FINISH 3/8" THICK. AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY SUPPLEMENTAL SPECIFICATIONS SECTION 604.
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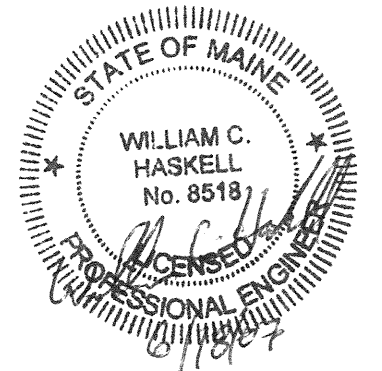
PRECAST CONCRETE MANHOLE TYPE "A"
N.T.S.



TYPICAL PAVEMENT GRADING ON SLOPES FOR CATCH BASIN AND INLET STONES
N.T.S.



CATCH BASIN INLET STONE
N.T.S.



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Issued For:
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Title: **UTILITY AND DRAINAGE DETAILS**

Scale: NONE

North: Sheet No:

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