



- KNOCKOUT STRUCTURE NOTES
- 2. STEEL REINFORCEMENT SHALL CONFORM TO ASTM SPECIFICATION OF 0.12 sq.in./LF, USING #4 REINFORCING BARS
- 4. JOINTS SHALL BE SEALED WITH A BUTYL RUBBER-BASED SEALANT CONFORMING TO ASTM C478. 5. FRAME AND GRATES SHALL BE CAST IRON MINIMUM CLASS 30 CONFORMING TO ASTM A48. CASTINGS SHALL BE CAPABLE OF MEETING OR
- 6. CATCH BASIN FRAME AND GRATES THAT ARE TO BE INSTALLED ON STREETS WITH NO SLOPES SHALL BE NEENAH FOUNDRY R-3405 TYPE 7. CATCH BASIN FRAME AND GRATES THAT ARE TO BE INSTALLED ON STREETS WITH SLOPES, OR AS REQUESTED BY THE WATER RESOURCES
- 8. GRADE ADJUSTMENTS SHALL BE MADE USING COMPOSITE RISER SECTIONS, "PRO-RING" BY CRETEX OR EQUAL. RISERS SHALL BE SIZED AND
- 9. FRAMES AND GRATES SHALL BE SET IN ACCORDANCE WITH THE COMPOSITE RISER SECTIONS INSTALLATION PROCEDURE
- 11. ALL LIFTING HOLES, VOIDS BETWEEN PIPE AND KNOCKOUT OPENINGS AND OTHER DEFECTS SHALL BE PLUGGED WITH A PORTLAND CEMENT
- 12. SHALLOWER SUMPS SHALL BE APPROVED BY THE WATER RESOURCES DEPARTMENT PRIOR TO INSTALLATION. 13. IF EXTERNAL DIAMETER OF CATCH BASIN STRUCTURE IS WITHIN 5-FEET OF WATER MAIN, INSULATION OF CATCH BASIN STRUCTURE IS

![](_page_0_Figure_11.jpeg)

![](_page_0_Figure_12.jpeg)

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MANHOLE FRAME & SOLID COVER BY

NEENAH FOUNDRY OR EQUAL,

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