



NO. DESCRIPTION:

1. FRAME AND COVER. SOLID OR WATERTIGHT AS DIRECTED. SEE NOTE H.
2. CONE SECTION. SEE NOTE G.
3. MIN. 6" WIDE BUTYL RUBBER JOINT WRAP ON EXTERIOR OF ALL JOINTS.
4. CONCRETE COLLAR ALL AROUND JOINT. SEE NOTE F.
5. EXISTING MANHOLE STEPS TO BE REMOVED UNLESS DIRECTED OTHERWISE BY THE SEALING ENGINEER.
6. EXISTING MANHOLE WALL. SEE NOTE B.
7. EXISTING BENCHING.
8. MIN. 1 INCH THICK CEMENTITIOUS LINER ON VERTICAL WALL TO 6" ABOVE RISER SECTION. SEE NOTE I.
9. MANHOLE DIAMETER VARIES. CONTRACTOR TO DETERMINE IN FIELD. SEE NOTE C.
10. INSTALL 2 PIECES BUTYL RUBBER UNDER RISER SECTION WHERE POSSIBLE. SEE NOTE F.
11. FILL INSIDE JOINT WITH NON-SHRINK GROUT. SEE NOTE F.
12. REMOVE EXISTING MH. SEE NOTES C AND D.

NOTES:

- A. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH CLTW STANDARD SPECIFICATIONS AND DETAILS.
- B. THIS DETAIL DEPICTS AN EXISTING BRICK MANHOLE WITH A TYPICAL CHIMNEY SECTION. SOME MANHOLES MAY BE PRECAST CONCRETE WITH CONE SECTIONS.
- C. CONTRACTOR TO MEASURE THE INSIDE DIAMETER OF EXISTING MANHOLE TO SELECT APPROPRIATE DIAMETER OF NEW RISERS.
- D. CONTRACTOR TO REMOVE EXISTING WALLS TO SOLID STRUCTURE (TO AT LEAST BELOW THE CONE OR CHIMNEY SECTION) OR TO THE SPECIFIED LOCATION. THE LIMITS OF REMOVAL SHALL BE APPROVED BY THE SEALING

ENGINEER IN THE FIELD. CONTRACTOR TO ALSO REMOVE EXISTING FRAMES AND COVERS, VENT PIPES AND ALL APPURTENANCES, STEPS, ETC. CONTRACTOR TO DISPOSE OF ALL MATERIALS OFF-SITE. NO DEBRIS SHALL BE DROPPED INTO THE SEWER. IF DEBRIS ENTERS THE SEWER, THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE SEWER AT NO ADDITIONAL COST TO THE OWNER.

- E. CONTRACTOR TO INSTALL NEW RISER AND CONE SECTIONS AS NECESSARY TO EXTEND THE MANHOLE TO THE SPECIFIED/APPROVED ELEVATION. THE FINAL ELEVATION MAY BE HIGHER THAN, LOWER THAN OR EQUAL TO THE EXISTING ELEVATION. THIS DETAIL ILLUSTRATES A HIGHER ELEVATION. THE CONTRACTOR SHALL DETERMINE THE REQUIRED RISER AND CONE HEIGHTS TO MEET THE SPECIFIED ELEVATION. SEALING ENGINEER SHALL APPROVE FINAL ELEVATIONS IN THE FIELD. BOTTOM RISER TO BE PROVIDED WITH A FLAT JOINT UNLESS OTHERWISE APPROVED.
- F. CONTRACTOR TO SEAL NEW RISER SECTION/EXISTING WALL JOINT TO PROVIDE A LEAK-TIGHT JOINT. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO PROVIDE A LEAK-TIGHT SEAL. WHERE POSSIBLE, BUTYL RUBBER SEALANT SHALL BE PROVIDED UNDER THE NEW RISER SECTION. IN ALL CASES, A CONCRETE COLLAR SHALL BE POURED AROUND THE JOINT. COLLAR TO BE MINIMUM 6 INCHES WIDE AND 12" HIGH CENTERED ON JOINT ALL AROUND.
- G. NEW CONE SECTIONS TO BE INSTALLED ON TOP OF NEW RISER SECTIONS UNLESS SPECIFIED OTHERWISE. FRAMES TO BE BOLTED ONTO CONE SECTIONS PER CLTW STANDARD DETAILS. REFER TO APPROPRIATE STD. DETAIL FOR CLEANOUT REPLACEMENT FOR ALL WORK IN PAVED AREAS.
- H. COVERS SHALL BE CAM-LOCK WATERTIGHT COVERS OR SOLID COVERS AS DIRECTED BY THE SEALING ENGINEER.
- I. ALL MANHOLES THAT ARE REHABILITATED USING THIS DETAIL SHALL BE COATED WITH CEMENTITIOUS MORTAR TO 6" ABOVE THE EXISTING MANHOLE/NEW RISER SECTION INTERFACE. REFER TO APPROPRIATE STD. DETAIL FOR REHABILITATION OF EXISTING MANHOLES EXCEPT FOR THE LIMIT OF CEMENTITIOUS MORTAR AT THE TOP OF THE MANHOLE.