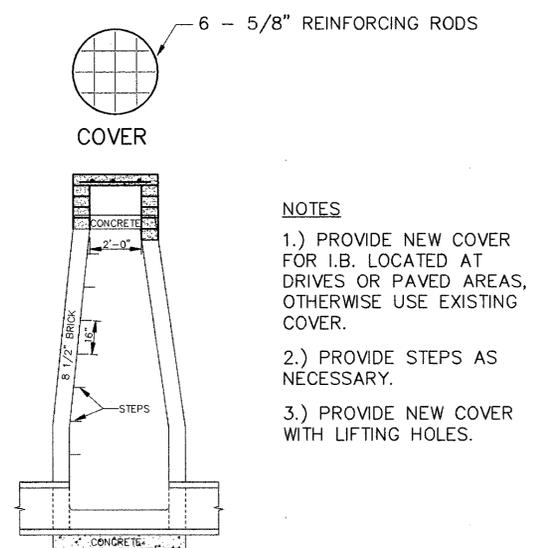


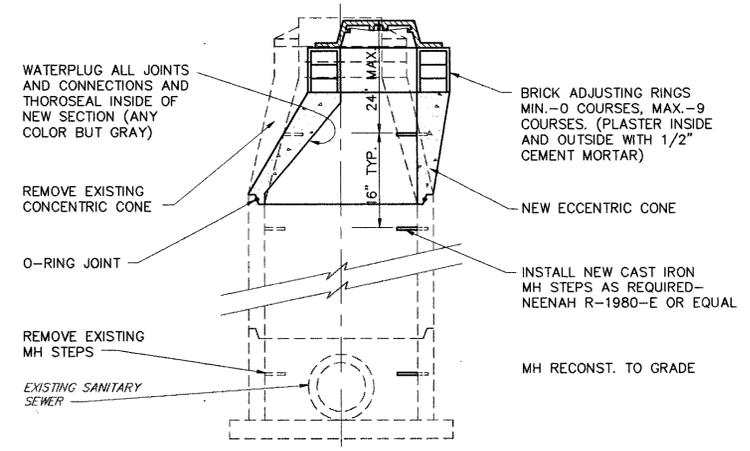
DRAINAGE & SANITARY DETAILS

PLAN NO. 21



- NOTES**
- 1.) PROVIDE NEW COVER FOR I.B. LOCATED AT DRIVES OR PAVED AREAS, OTHERWISE USE EXISTING COVER.
 - 2.) PROVIDE STEPS AS NECESSARY.
 - 3.) PROVIDE NEW COVER WITH LIFTING HOLES.

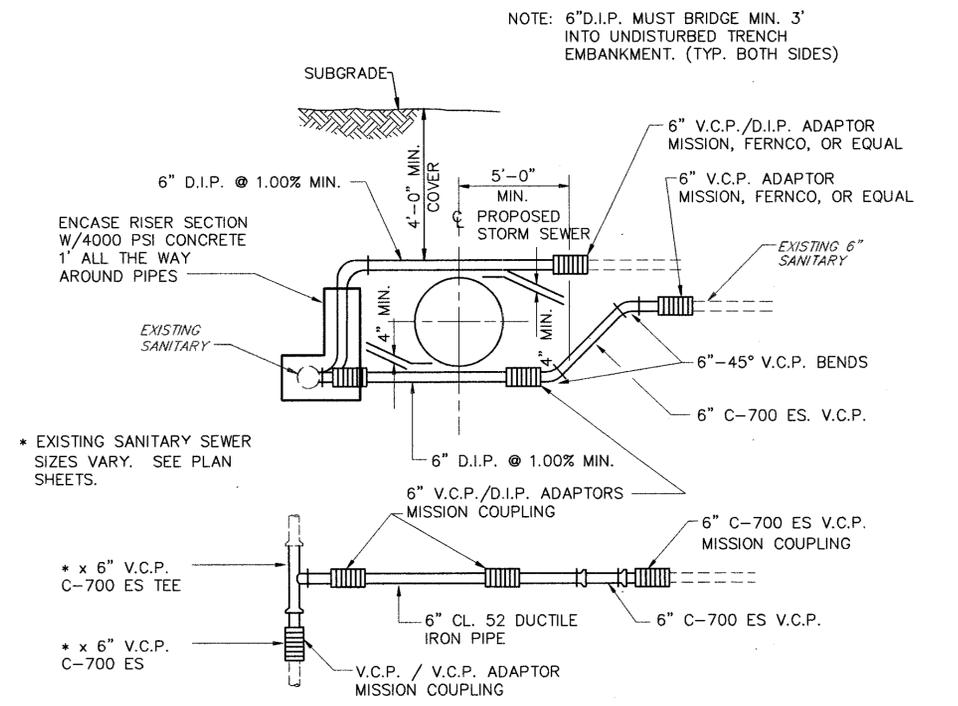
CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN, TYPE I



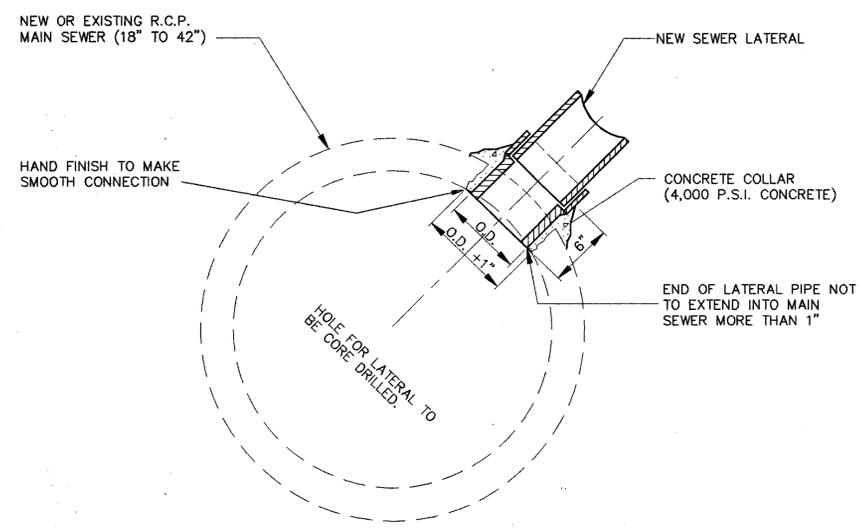
SANITARY SEWERAGE NOTES

1. NO MANUFACTURED ADJUSTING RINGS WILL BE PERMITTED ON SANITARY MANHOLES. SANITARY MANHOLE CASTINGS SHALL ONLY BE ADJUSTED TO GRADE UTILIZING RED SHALE BRICK AS SPECIFIED BELOW.
2. THE TOTAL MAXIMUM NUMBER OF FULL BRICK COURSES (EXISTING AND NEW) ALLOWED IS NINE (9) COURSES, UNLESS OTHERWISE DIRECTED BY THE LAKE COUNTY UTILITIES DEPARTMENT. ALL PROPOSED SANITARY MANHOLE ADJUSTMENTS ARE ANTICIPATED TO MEET THIS REQUIREMENT.
3. THE TOP EXISTING MANHOLE STEP SHALL NOT BE MORE THAN 2'-0" BELOW THE TOP OF FRAME UNLESS OTHERWISE DIRECTED BY THE LAKE COUNTY UTILITIES DEPARTMENT. REQUIRED NEW STEPS SHALL BE NEENAH R-1080-E OR EQUAL AND PROJECT INTO THE BRICK 5" TO 6".
4. A CONCRETE COLLAR (DETAIL TO BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE LAKE COUNTY UTILITIES DEPARTMENT) MAY BE UTILIZED IN LIEU OF AN O-RING JOINT WHEN NEW ECCENTRIC ADJUSTMENT CONE SECTIONS ARE NOT COMPATIBLE WITH THE EXISTING PRECAST MANHOLE SECTIONS.
5. ALL SEWER BRICK SHALL BE MADE FROM SHALE SEWER BRICK AND SHALL BE SMOOTH, SOUND, HARD, TOUGH, AND THOROUGHLY VITRIFIED. THEY SHALL BE TRUE IN FORM WITH STRAIGHT SHARP EDGES AND FLAT SURFACES, AND SHALL BE UNIFORM IN QUALITY, CROSS-SECTION AND DIMENSIONS. SHALE SEWER BRICK FURNISHED OR USED UNDER THESE SPECIFICATIONS SHALL COMPLY WITH ALL THE REQUIREMENTS FOR GRADE S.S., ASTM C-32 SO FAR AS THE SAME MAY APPLY AND ARE NOT IN CONFLICT WITH THESE SPECIFICATIONS.

MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN, TYPE I

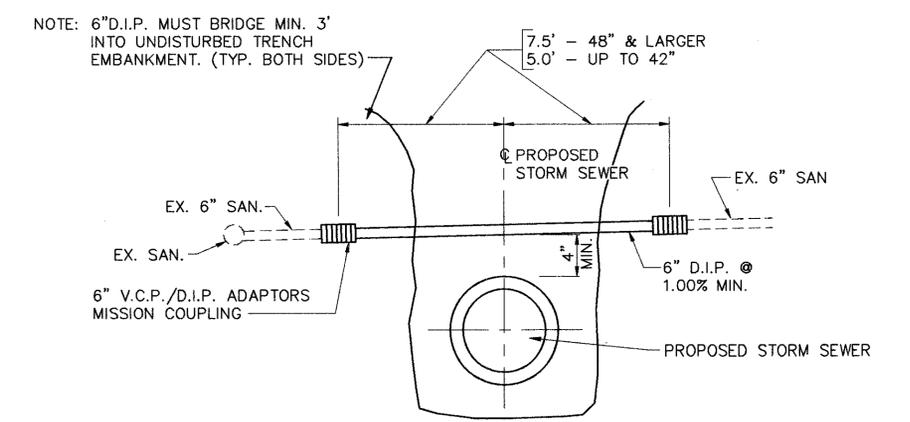


SANITARY LATERAL ADJUSTMENT DETAIL



NOTE: COST OF FIELD TEE TO BE INCLUDED IN COST OF ITEM 603 - CONDUIT

FIELD TEE CONNECTION



SANITARY LATERAL REPLACEMENT DETAIL