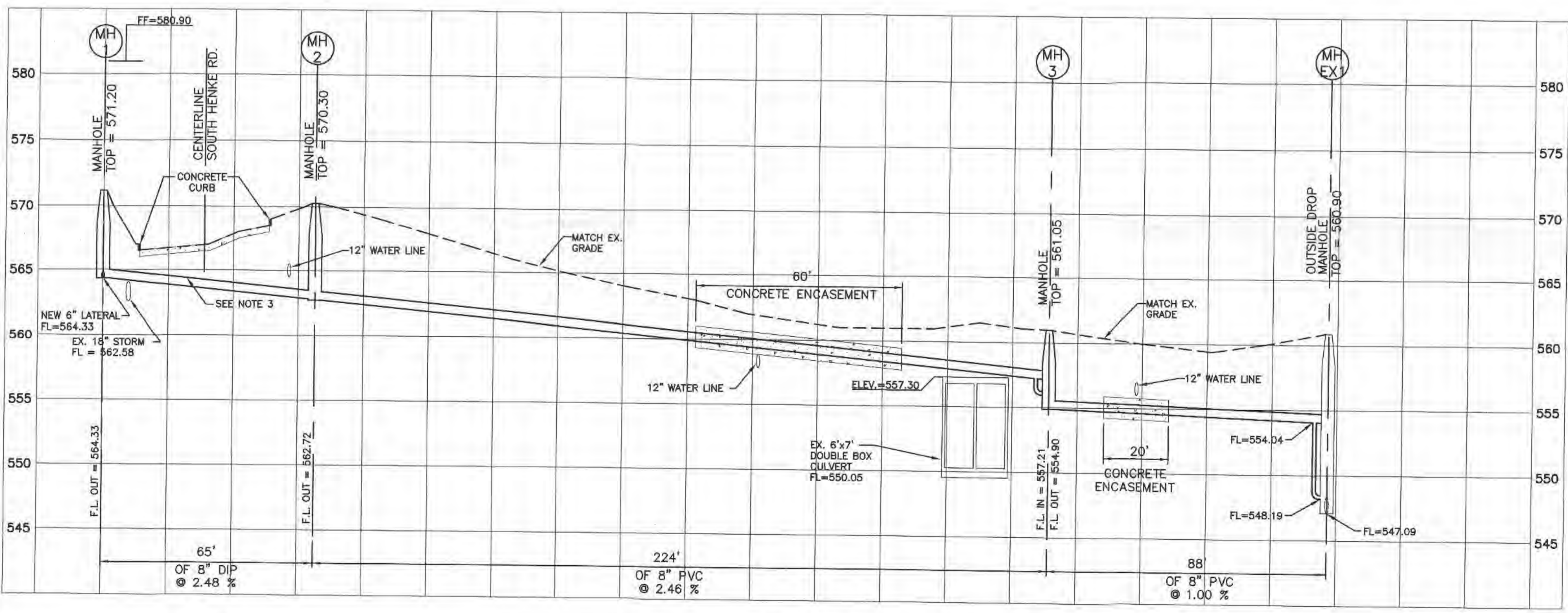


SITE LEGEND

EXISTING	PROPOSED	
---	— ST —	STORM PIPE
---	— SS —	SANITARY PIPE
---	— 680 —	CONTOURS
---	— W —	WATER LINE
---	— X —	FENCE
---	---	OVER HEAD ELEC.

- NOTES:**
- 1) UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT THERE ARE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR(S) TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS PRIOR TO ANY EXCAVATION OR TRENCHING WORK TO AVOID DAMAGING THEM.
 - 2) ALL SEWER CONSTRUCTION SHALL FOLLOW ST. CHARLES COUNTY PUBLIC WATER SUPPLY DISTRICT NO. 2 SPECIFICATIONS.
 - 3) OPEN CUTTING OF SOUTH HENKE ROAD WILL NOT BE ALLOWED.



(A) SEWER PROFILE
SCALE: HORIZ. 1"=20' VERT. 1"=5'

Madden + McMillan Architects
Architecture Engineering
2198 Gladstone Court, Suite C
Glendale Heights, IL 60139
(630) 539-8100 Fax: (630) 539-1267

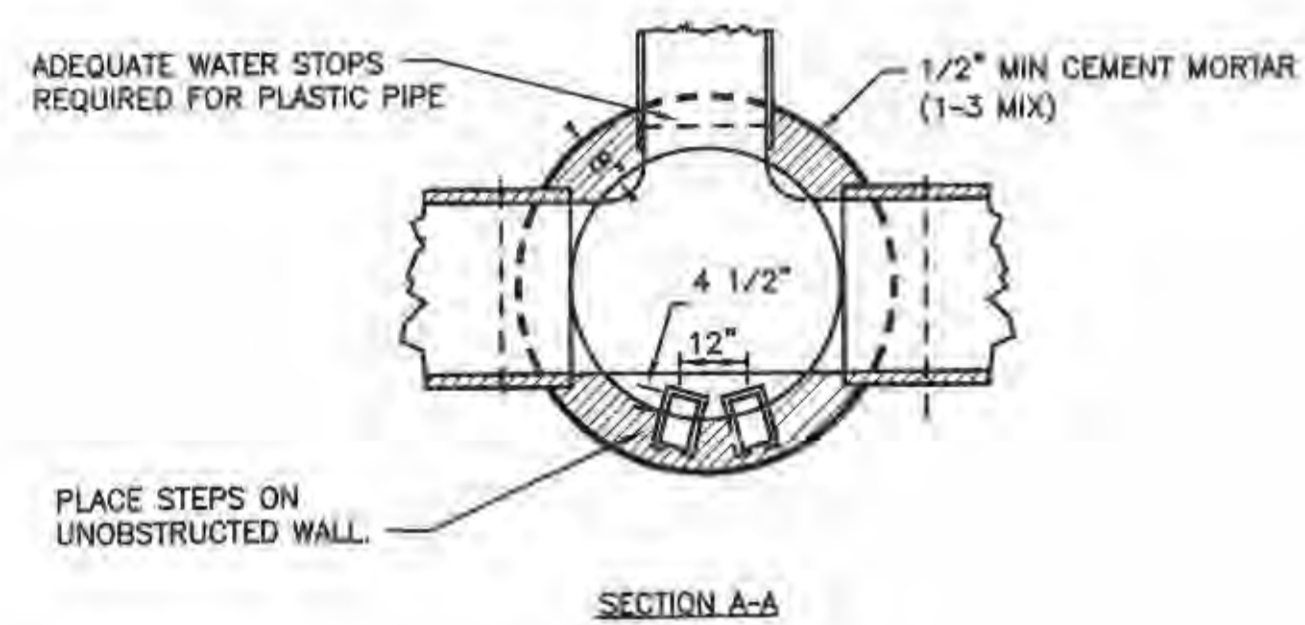
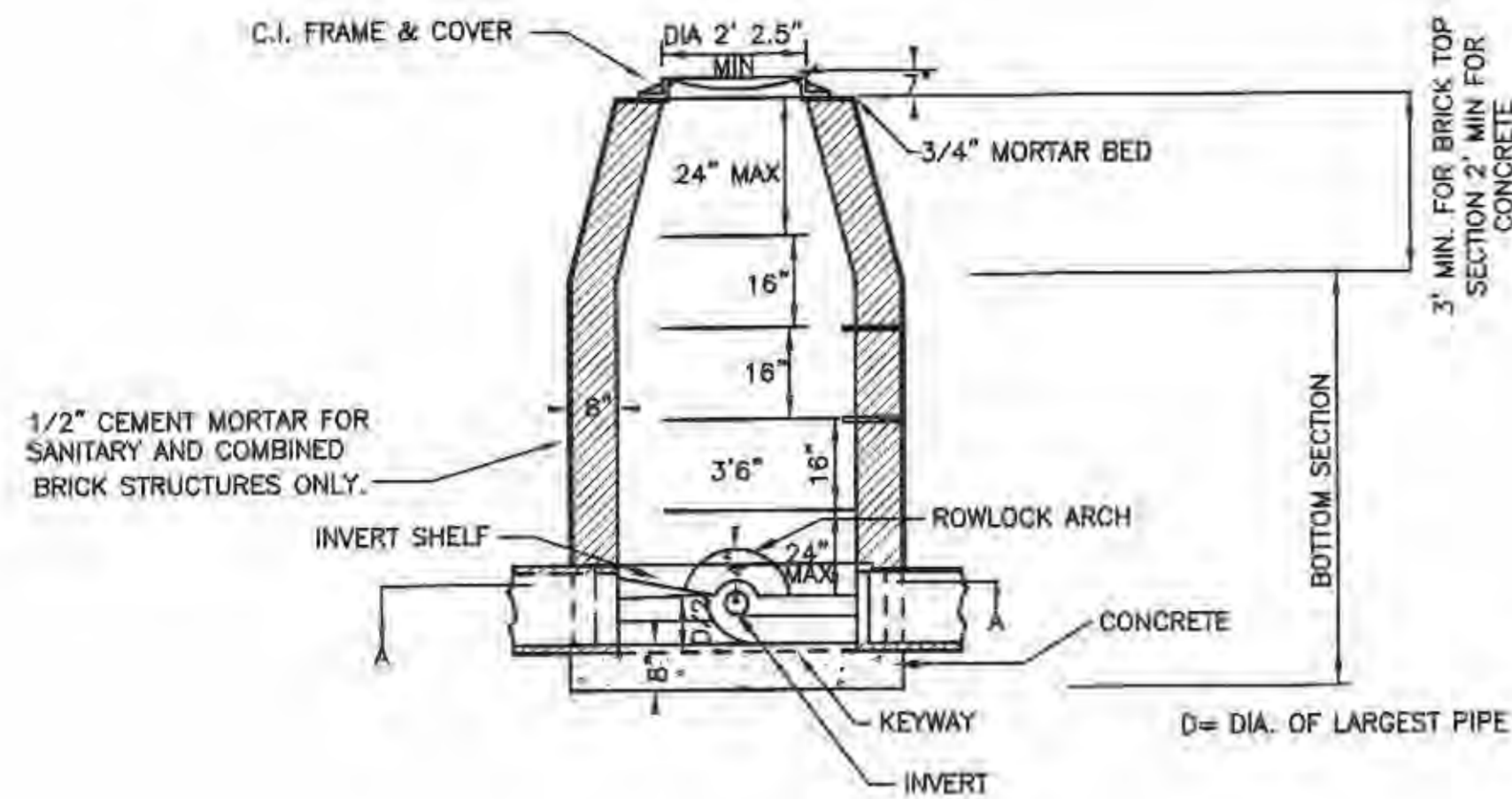
REV	DATE	ISSUE	BY

verizon wireless
10740 NAIL AVENUE, SUITE 400
OVERLAND PARK, KANSAS 66211

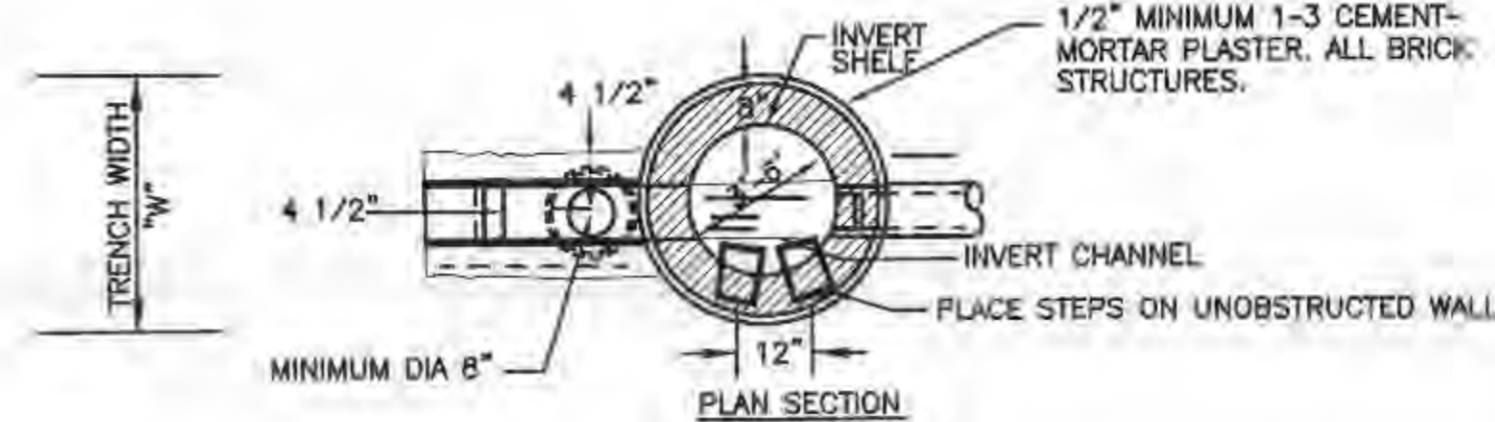
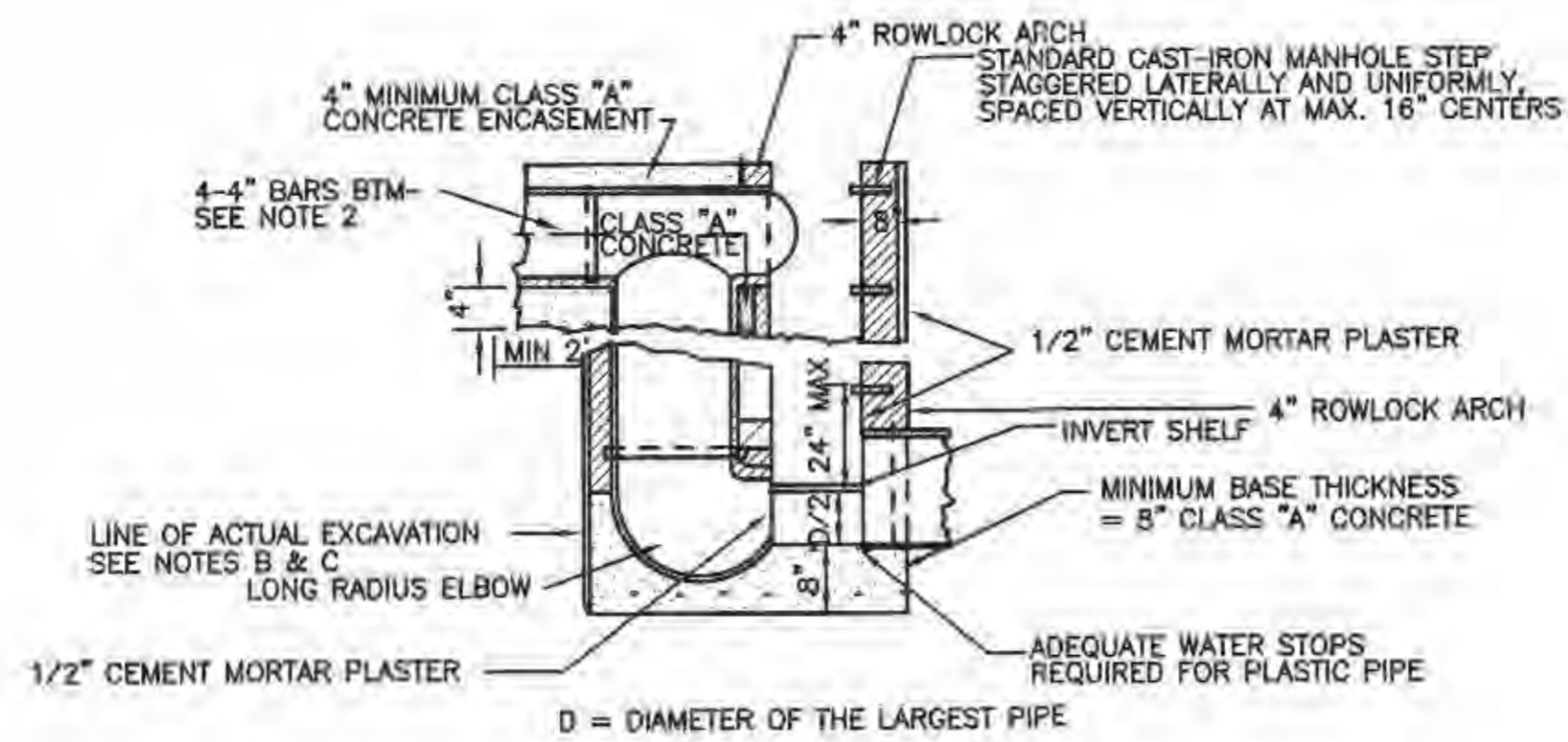
UTILITY PLAN
PROJECT
ST. LOUIS MSC 2
POWER AND BUILDING ALTERATIONS
1859 S. HENKE ROAD
LAKE ST. LOUIS, MO 63366

JOB No: 0534 DATE: 06/20/06
DRAWN: KAD CHECKED: MAB

SHEET NUMBER
C-105



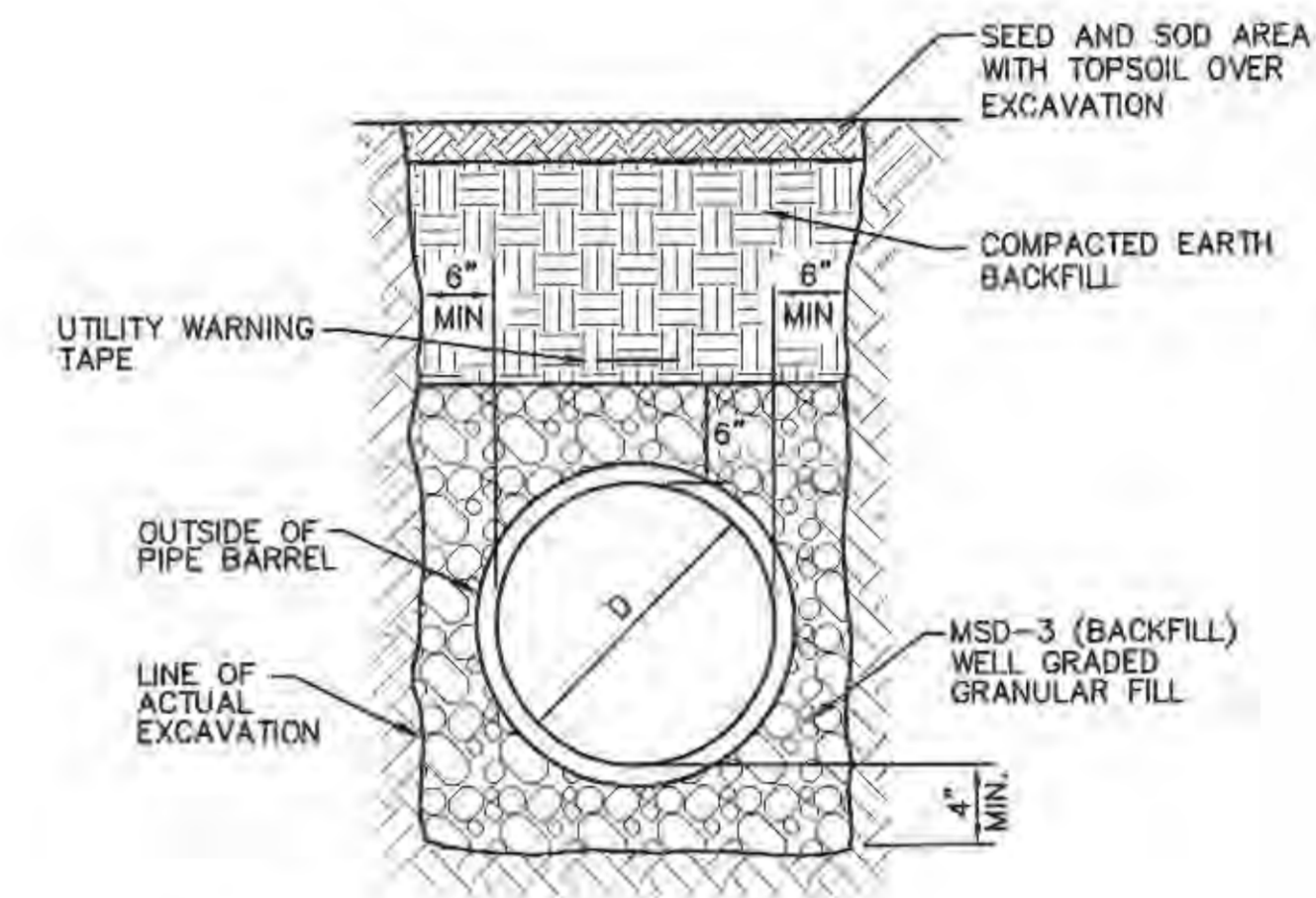
A TYPICAL MANHOLE SECTION
NOT TO SCALE



NOTES

1. IF LINE OF ACTUAL EXCAVATION EXTENDS BEYOND LINE OF DROP MASONRY, FILL EXCESS EXCAVATED SPACE WITH CONSTRUCTION MATERIAL OF DROP OR PACK WITH LOW-SLUMP CLASS "A" CONCRETE TO BASE OF CLASS "A" CONCRETE ENCASEMENT.
2. IF EXCAVATED SPACE OUTSIDE OF DROP PIPE MASONRY EXCEEDS 1 FOOT, REINFORCE SEWER PIPE ENCASEMENT WITH A MINIMUM OF 4 NO. 4 BARS FOR LENGTH OF ENCASEMENT.
3. MASONRY ENCASEMENT OF DROP-PIPE SHALL BE BONDED AND PLACED INTEGRALLY WITH MANHOLE MASONRY.
4. DIAMETER OF DROP PIPE FOR COMBINED SEWERS AND SANITARY SEWERS, IS SAME AS INCOMING 8", 10" OR 12" PIPE SEWER AND 12" FOR LARGER COMBINED SEWERS UNLESS OTHERWISE SHOWN ON PROJECT PLANS. FOR SANITARY SEWERS 15" OR LARGER, A DROP IS NOT TO BE USED; CONNECT TO MANHOLE AT, OR WITHIN 3" ABOVE ITS FLOWLINE.
5. NEW OUTSIDE DROP ON EXISTING MANHOLE REQUIRES NO. 4 RE-BARS SPACED VERTICALLY AT 24" C-C, ONE ON EACH SIDE OF THE DROP PIPE, GROUTED THROUGH 2" DIA HOLES IN M.H. WALL. (MIN LENGTH OF BARS 18")

B OUTSIDE DROP MANHOLE
NOT TO SCALE



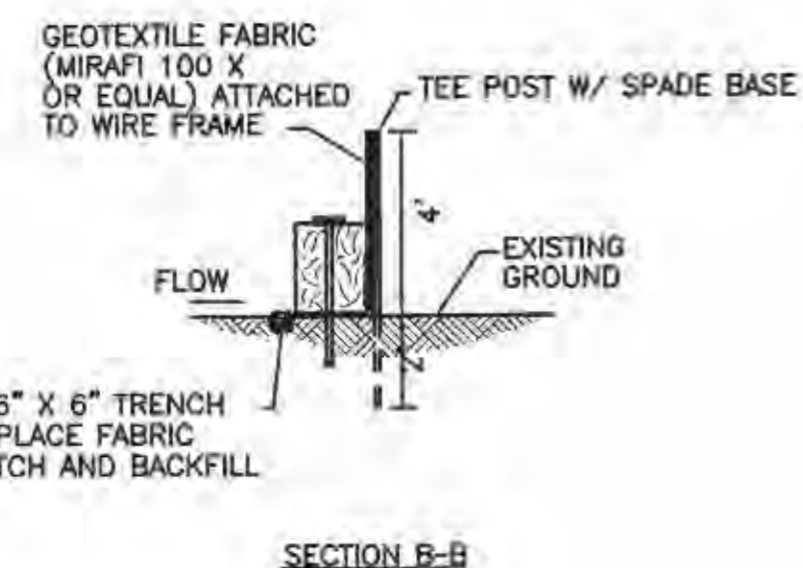
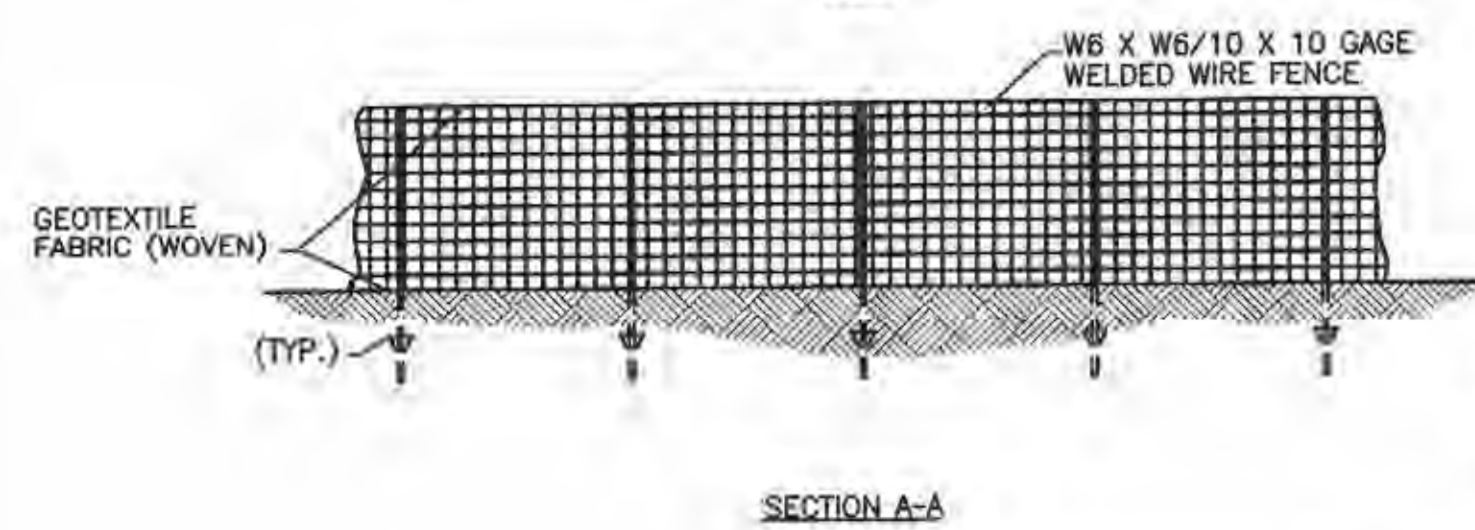
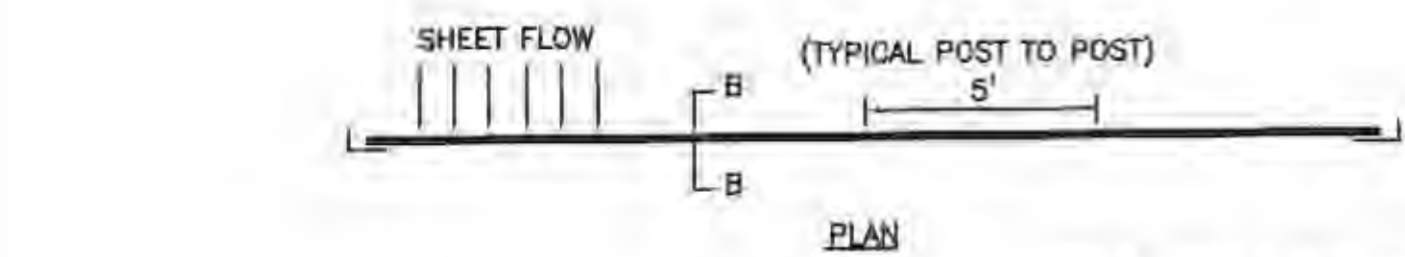
NOTES:

1. THIS DETAIL IS FOR BEDDING CLASS "C".
2. DO NOT USE THIS DETAIL FOR EXCAVATIONS BELOW PAVEMENTS.
3. ALL COMPACTION SHALL BE TO 90% MAXIMUM DENSITY AS DETERMINED FROM MODIFIED PROCTOR COMPACTION TEST (ASTM D1557)

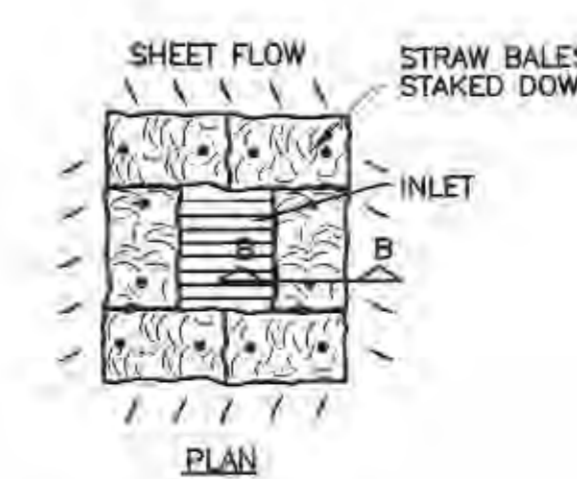
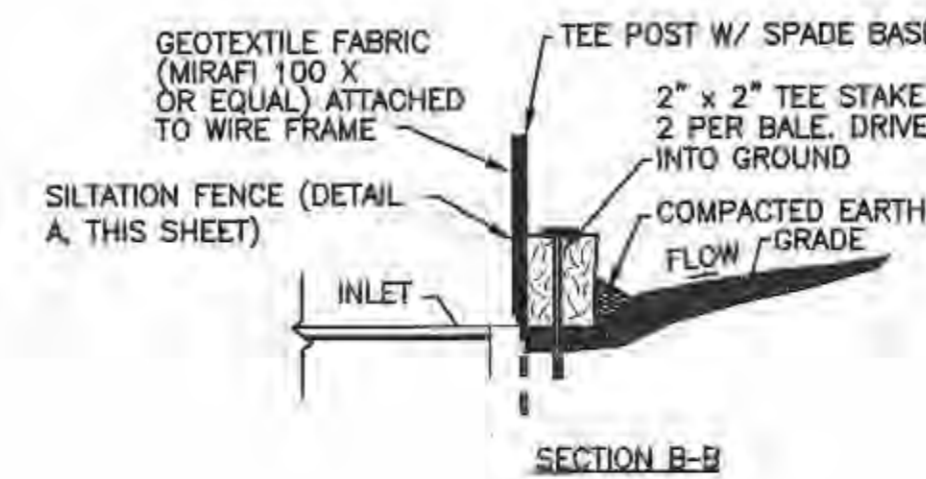
C UTILITY TRENCH - BELOW LAWN
NOT TO SCALE

GENERAL NOTES

1. DO NOT SCALE DRAWING. FOLLOW DIMENSIONS.
2. SILTATION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ADEQUATE VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.
3. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENTATION WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE SILTATION FENCE.
4. ATTACHMENT OF WELDED WIRE FENCE AND GEOTEXTILE FABRIC TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.



D SILTATION FENCE
NOT TO SCALE



E SEDIMENTATION TRAP-GRATE INLET
NOT TO SCALE

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verizonwireless
10740 MAIL AVENUE SUITE 400
OVERLAND PARK, KANSAS 66211

UTILITY PLAN
PROJECT
ST. LOUIS MSC 2
POWER AND BUILDING ALTERATIONS
1859 S. HENKE ROAD
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JOB No: 0534 DATE: 06/20/09
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SHEET NUMBER
C-505