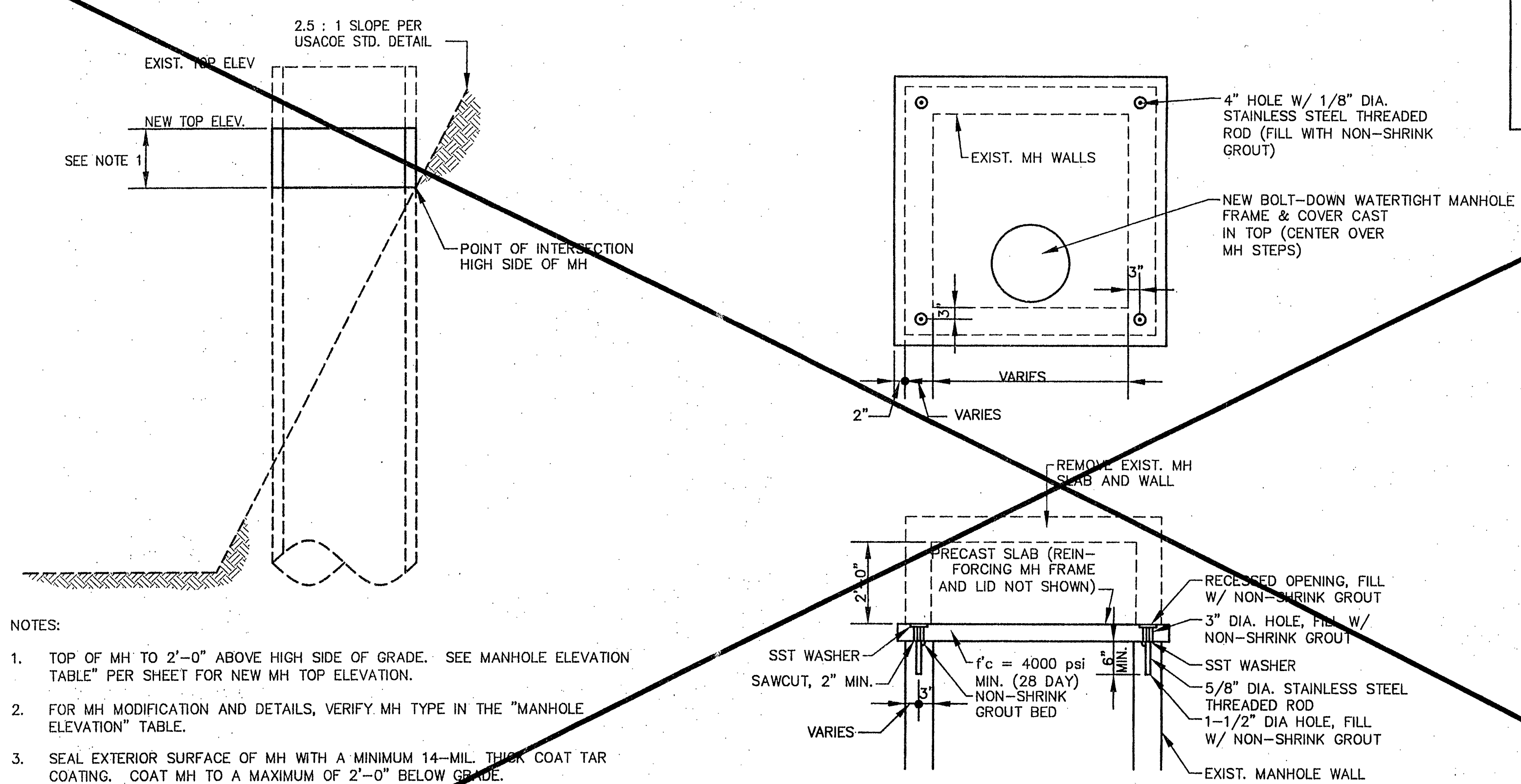


N.I.C.



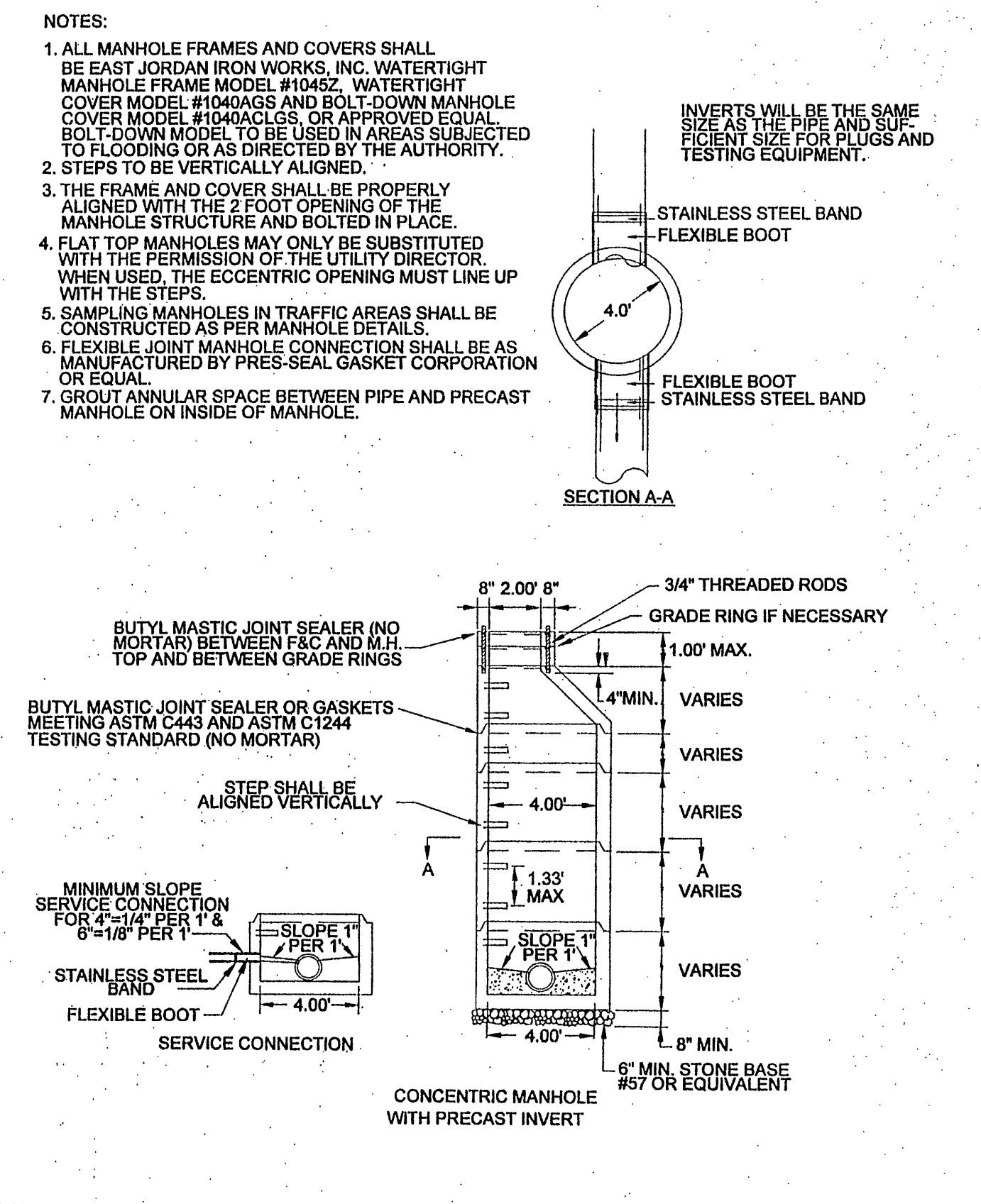
- NOTES:
- TOP OF MH TO 2'-0" ABOVE HIGH SIDE OF GRADE. SEE MANHOLE ELEVATION TABLE PER SHEET FOR NEW MH TOP ELEVATION.
 - FOR MH MODIFICATION AND DETAILS, VERIFY MH TYPE IN THE "MANHOLE ELEVATION" TABLE.
 - SEAL EXTERIOR SURFACE OF MH WITH A MINIMUM 14-MIL THICK COAT TAR COATING. COAT MH TO A MAXIMUM OF 2'-0" BELOW GRADE.
 - CONNECTIONS BETWEEN RISER SECTIONS AND BETWEEN RISER SECTION AND MANHOLE TOP SLAB SHALL BE STRAPPED AND BOLTED TOGETHER WITH EXTERNAL TYPE 316 STAINLESS STEEL JOINT HARNESS. A MINIMUM OF 3 JOINT HARNESSES, EQUALLY SPACED AROUND MANHOLE, SHALL BE USED AT EACH JOINT. BOLTS SHALL NOT EXTEND INTO THE INSIDE OF MANHOLE. HARNESS TO MATCH EXISTING.

GENERAL MH ADJUSTMENT (CUT SLOPE)
NOT TO SCALE

TYPE 2 MH ADJUSTMENT
NOT TO SCALE

TYPE 1 MH ADJUSTMENT (LOWER)
NOT TO SCALE

N.I.C.



- NOTES:
- TO ACHIEVE THE NEW TOP ELEVATION, REMOVE DOWN TO THE FIRST PRECAST JOINT BELOW THE REQUIRED ELEVATION. REPLACE THE REMOVED RISER SECTION WITH AN APPROPRIATELY SIZED RISER TO ACHIEVE THE NEW TOP ELEVATION.
 - CONNECTIONS BETWEEN RISER SECTIONS AND BETWEEN RISER SECTION AND MANHOLE TOP SLAB SHALL BE STRAPPED AND BOLTED TOGETHER WITH EXTERNAL TYPE 316 STAINLESS STEEL JOINT HARNESS. A MINIMUM OF 3 JOINT HARNESSES, EQUALLY SPACED AROUND MANHOLE, SHALL BE USED AT EACH JOINT. BOLTS SHALL NOT EXTEND INTO THE INSIDE OF MANHOLE. HARNESS TO MATCH EXISTING.

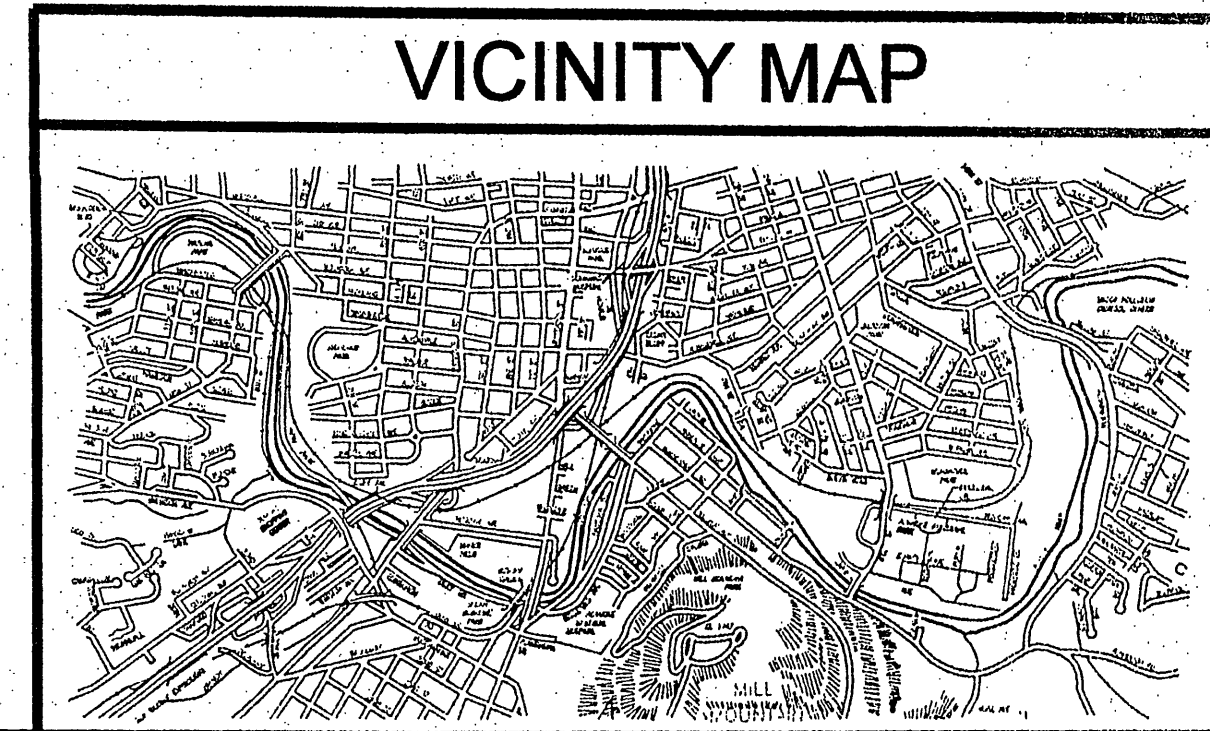
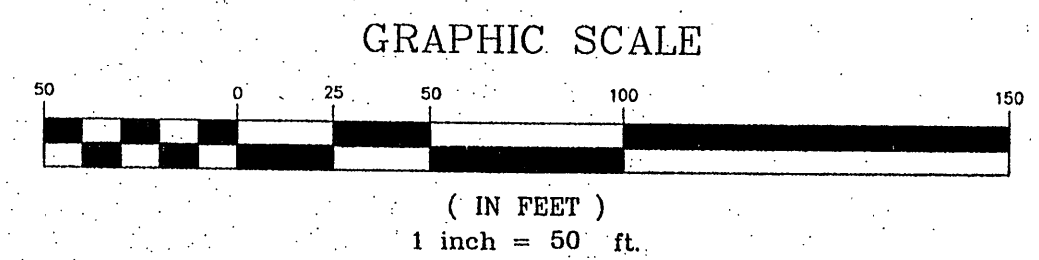
TYPE 4 MH ADJUSTMENT (RAISE)
NOT TO SCALE

TYPE 3 MH ADJUSTMENT (TRAIL OR ROADWAY)
NOT TO SCALE

N.I.C.

MANHOLE ELEVATION TABLE				
MANHOLE NO.	MH TYPE	EXIST. TOP ELEV.	NEW TOP ELEV.	REMARKS
20A-1040.0	1	918.13	915.94	-
20A-0047.0	1	918.85	915.35	-
20A-1039.0	1	920.01	915.22	-
20A-0047.0	1	918.92	915.32	-

- GENERAL NOTES THIS SHEET:
- CONTRACTOR SHALL CONTACT AMERICAN ELECTRIC POWER COMPANY 60 DAYS PRIOR TO BEGINNING CONSTRUCTION OPERATIONS IN THIS AREA.



102 Albemarle Ave
Roanoke, Virginia
24013
www.lmwpc.com
ph: 540.345.0675
fax: 540.342.4456
lmweng@lmwpc.com

Engineering
Surveying
Landscape Design

ROANOKE RIVER FLOOD REDUCTION UTILITY
RELOCATION PROJECT
RIVERVIEW BOULEVARD SANITARY SEWER
CITY OF ROANOKE, VIRGINIA

MCP		BY	
DATE	DESCRIPTION	DATE	DESCRIPTION
10/10/06	COMMENTS PER WWA	10/09/06	COMMENTS PER WWA
2	NO.	1	NO.

DESIGNED BY: DRM
DRAWN BY: MCF
CHECKED BY: DRM
APPROVED BY: DRM
SUBMITTED BY: DRM
DRAWING: 3161 U4 SS.dwg
DATE: 12/19/05
SCALE: NONE
COMMISSION NO.: 3161

Sheet U4 of U6