

**GENERAL NOTES:**

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CURRENT "CITY STANDARDS" AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT, KANSAS CITY, MISSOURI, EXCEPT AS NOTED.

THE CONTRACTOR SHALL PERFORM ALIGNMENT AND GRADE, INFILTRATION - EXFILTRATION, DEFLECTION, SOIL DENSITY, AND MANHOLE TESTS AS CALLED OUT IN SECTION 2500 OF THE CURRENT APWA (AMERICAN PUBLIC WORKS ASSOCIATION) STANDARDS AND SPECIFICATIONS. ANY SECTION OF SEWER FAILING ANY OF THE ABOVE MENTIONED TESTS SHALL BE RETESTED BY THE CONTRACTOR AFTER REPLACEMENT OR REPAIR.

THE CONTRACTOR MAY, AS AN ALTERNATE, SUBSTITUTE A.B.S. OR V.C.P. PIPE FOR P.V.C. PIPE. THE FOLLOWING PIPE DEFLECTION TEST SHALL BE IMPLEMENTED ON A.B.S. AND P.V.C. PIPE:

THE CONTRACTOR SHALL PERFORM DIAMETRICAL DEFLECTION TESTS ON FLEXIBLE AND SEMI-FLEXIBLE (I.E. POLY-VINYL-CHLORIDE AND ACRYLONITRILE BUTADIENE STYRENE) PIPE WHEN USED AS A PUBLIC SEWER PRIOR TO FINAL ACCEPTANCE. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 5% OF THE INSIDE DIAMETER. ALL TESTS SHALL BE CONDUCTED BETWEEN MANHOLES. SEWER TESTED SHALL BE 100% OF THE TOTAL SEWER INSTALLED. A MANDREL WITH A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE BEING INSTALLED SHALL BE USED.

PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. UPON APPROVAL, THESE SHALL BE SUBMITTED TO THE CONSTRUCTION SECTION OF PUBLIC WORKS ENGINEERING FOR REVIEW. (ATTN: PORTER REED, 4721 COAL MINE ROAD, KANSAS CITY, MO 64130).

EROSION CONTROL PLANS AND PROCEDURES SHALL BE IN PLACE PRIOR TO ANY EXCAVATION.

CONTRACTOR SHALL PROVIDE EARTHWORK AND MATERIAL TESTING TO COMPLY WITH THE STANDARD SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OR AS REQUIRED BY THE CITY'S FIELD REPRESENTATIVE.

**PLUMBING NOTES:**

ALL LOTS HAVE BEEN SUPPLIED WITH WYES, TEES OR LATERALS. PLUMBER SHALL CONNECT BUILDING SERVICE TO MAIN AT LOCATIONS INDICATED.

ALL SERVICE LINES SHALL BE LAID AT 2% MINIMUM AND TERMINATE TWENTY (20) FEET OUTSIDE EASEMENT OF RIGHT-OF-WAY.

B.F. ELEVATION - INDICATES LOWEST FLOOR ELEVATION SERVICEABLE BY PROPOSED SANITARY SEWER.

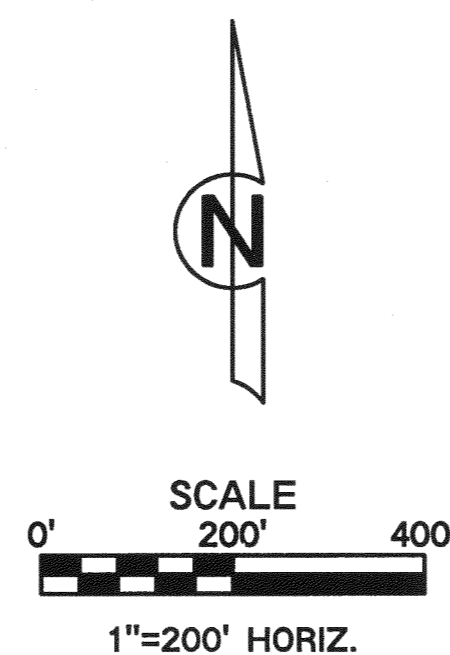
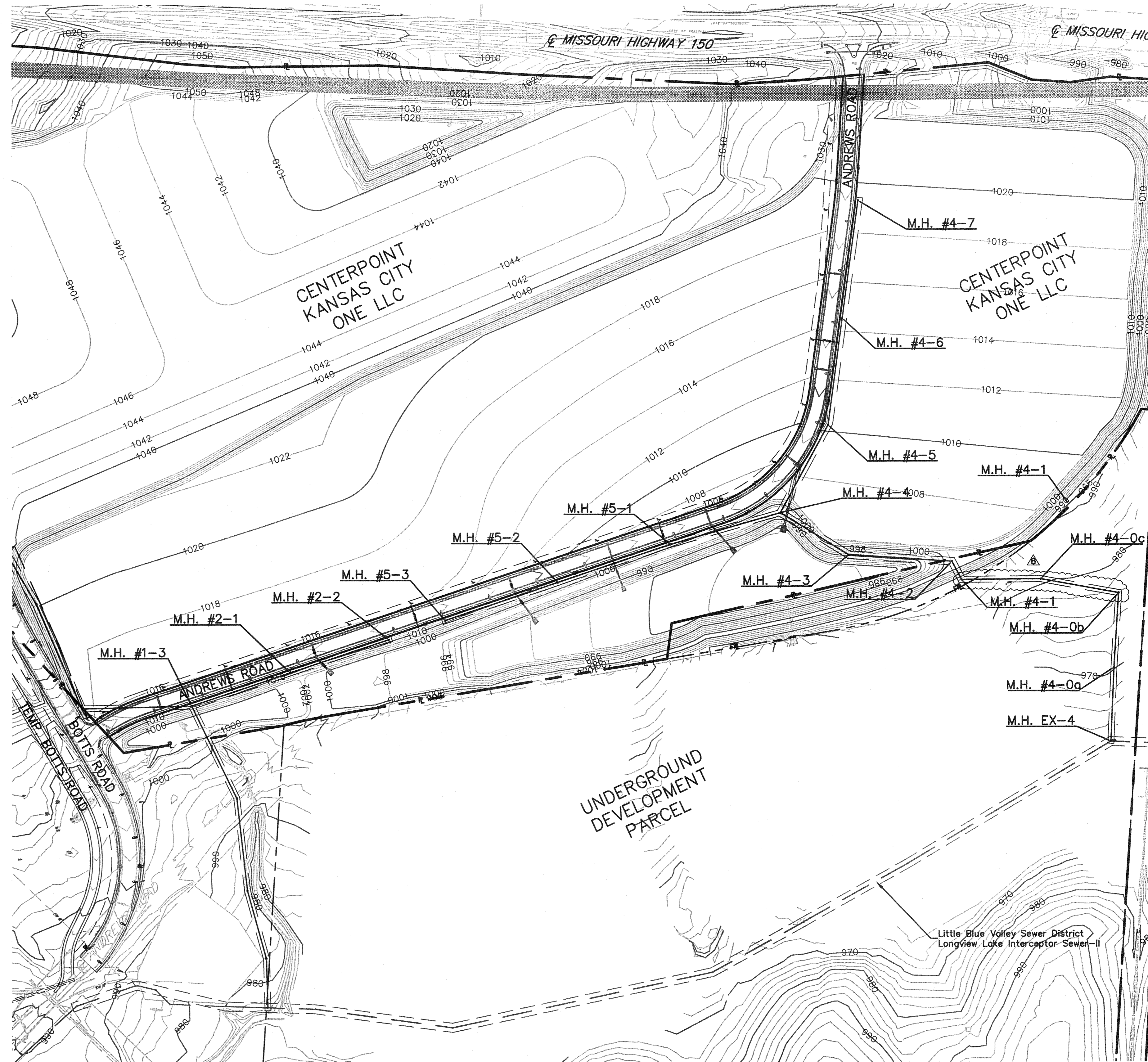
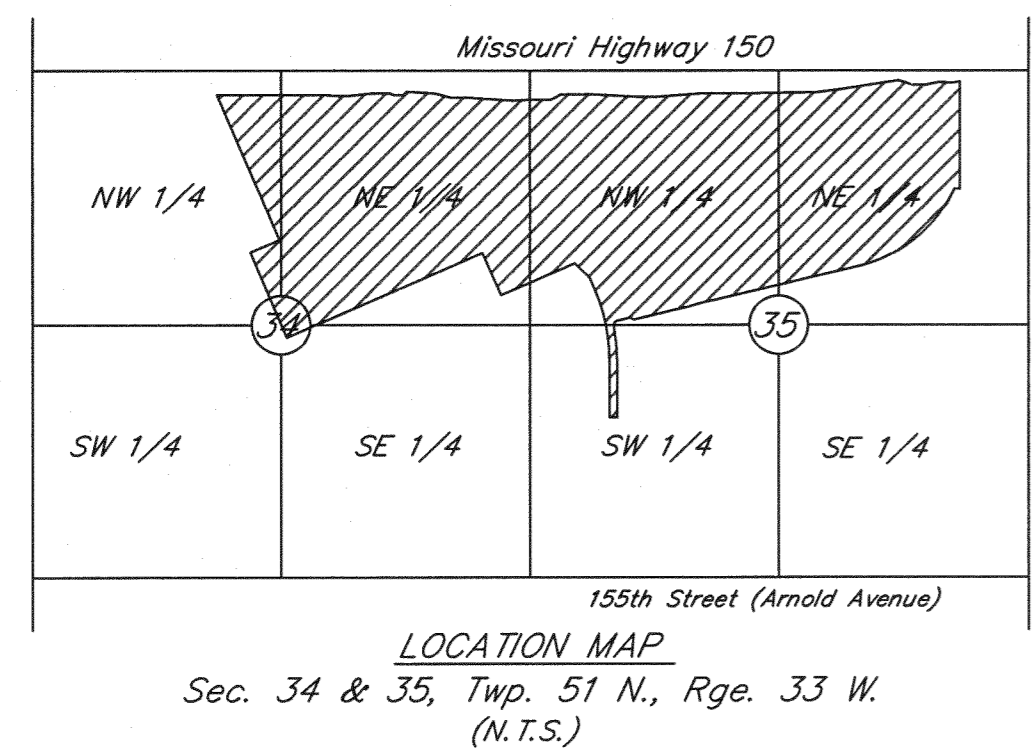
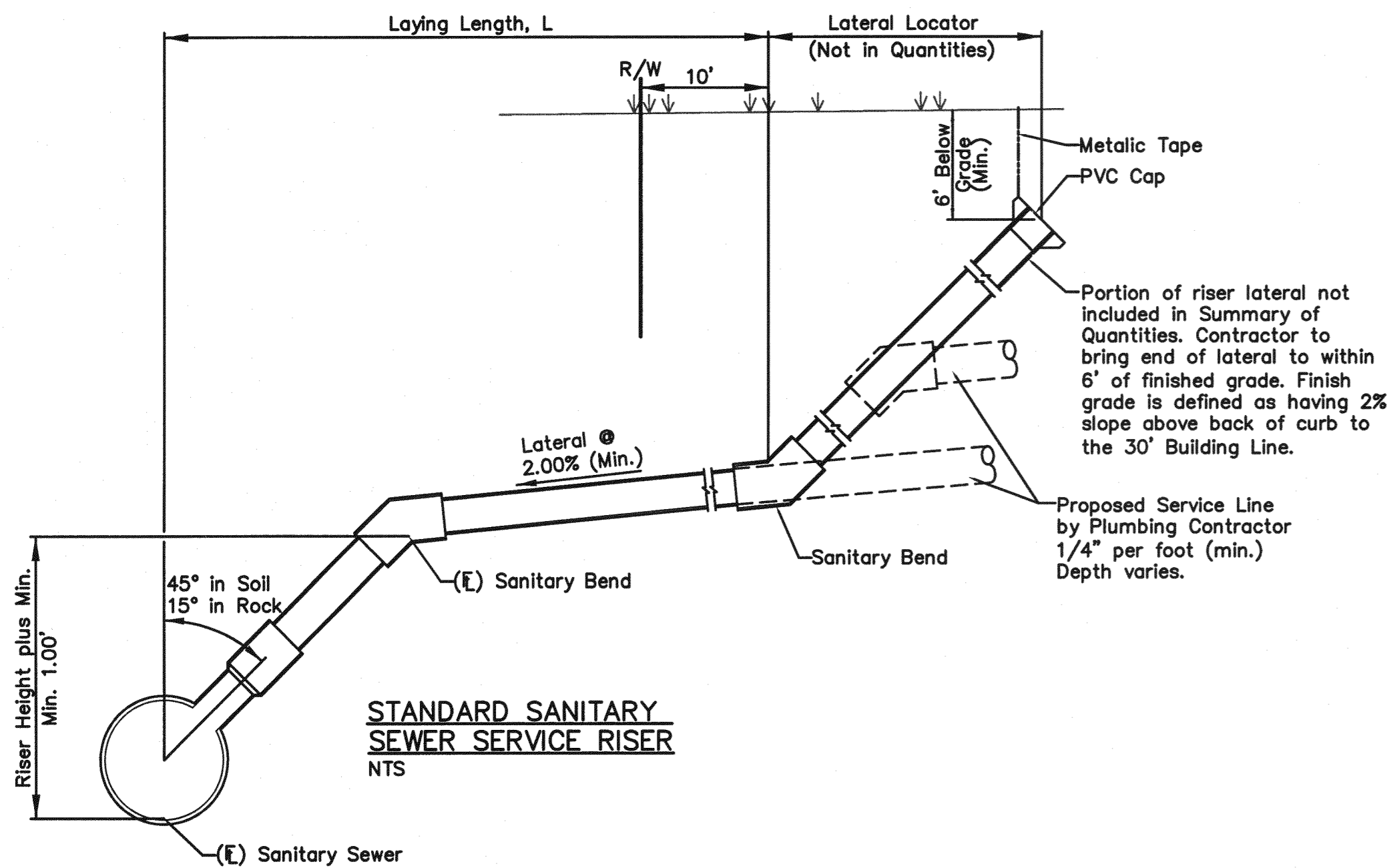
**EXCAVATING NOTES:**

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ROCK ELEVATIONS AT 25 FOOT (MAXIMUM) INTERVALS WHERE ENCOUNTERED, AND FURNISHING THIS INFORMATION TO THE DESIGN ENGINEER FOR USE ON AS-BUILTS.

THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.

WHEN SEWER LINES CROSS A LOW POINT IN A CREEK, THE SEWER LINE MUST BE JACKETED ACCORDING TO KCMO STANDARDS 5 FEET TO 10 FEET BEYOND THE CREEK BANK.



**REVISED**

EXISTING STORM SEWER	ESTM
PROPOSED STORM SEWER	STM
FUTURE STORM SEWER	ESTM
EXISTING SANITARY SEWER	ESAN
PROPOSED SANITARY SEWER	SAN
FUTURE SANITARY SEWER	FSAN
EXISTING WATER MAINS	EW
PROPOSED WATER MAINS	W
FUTURE WATER MAINS	FW
EXISTING RIGHT-OF-WAY	ER/W
PROPOSED RIGHT-OF-WAY	R/W
FUTURE RIGHT-OF-WAY	FR/W
PROPERTY LINE	P

Location: N:\Engineering\Richard Gebaur - 07165 & 07166\Drafting\Andrews Road\Sanitary\GSA - 07165.dwg

**SANITARY GENERAL LAYOUT**  
**CENTERPOINT-KCS**  
**INTERMODAL CENTER**

Reviewed By: S.E.C.  
Designed By: R.J.S.  
Drafted By: J.W.W.  
Lutjen Project No.: 07216

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surveying  
planning  
engineering  
landscape architecture

Sheet No.: **8**

DATE	P.E. SIGNATURE	DESCRIPTION
08-07-07	R.J.S.	Prepared for review
01-28-08	R.J.S.	Revised per City Comments
08-11-08	R.J.S.	Revised Line 4 alignment
08-28-08	R.J.S.	Revised Line 4 alignment
10-22-08	R.J.S.	Revised Line 4 alignment