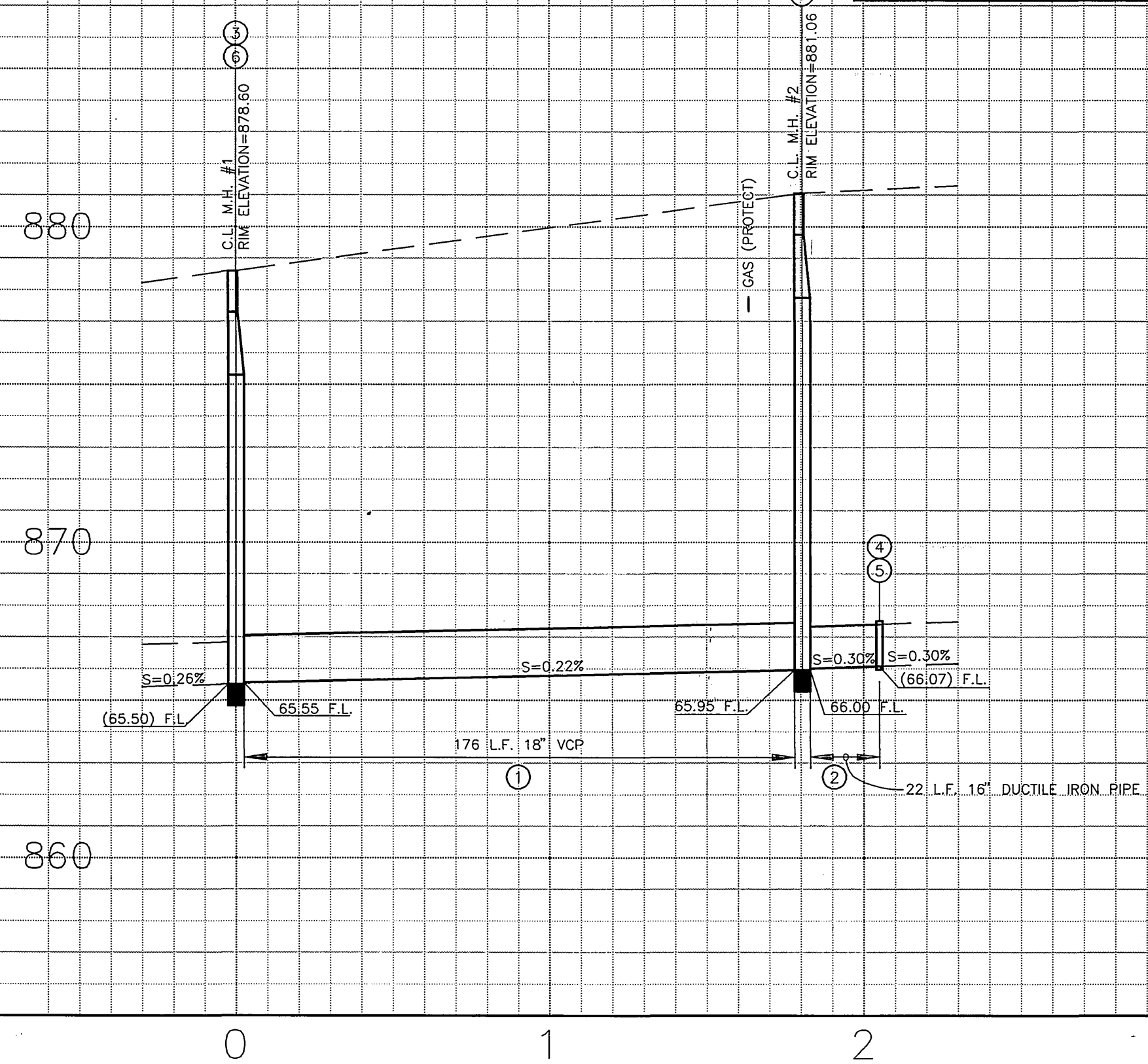
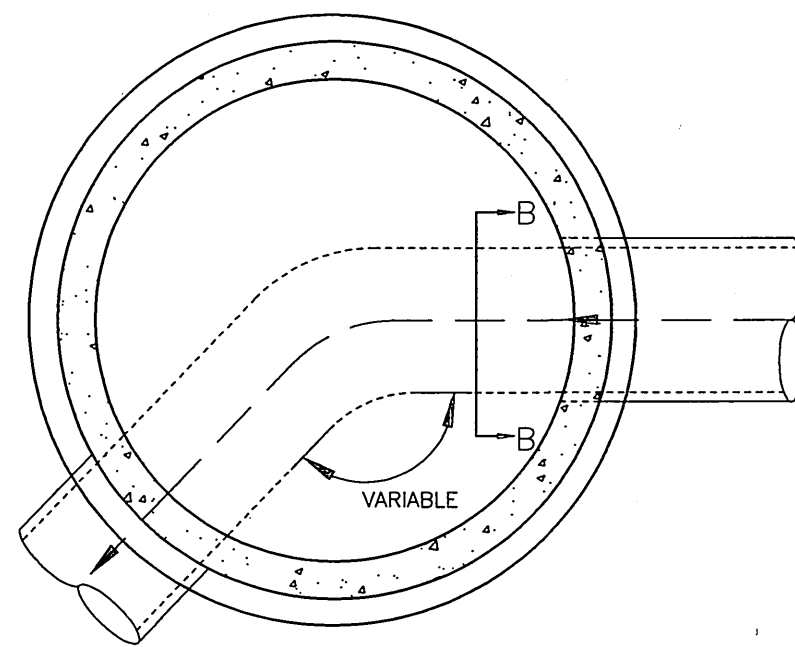


**BENCHMARK**  
 P.K. NAIL AND CITY ENGINEER TAG AT THE E'LY END OF THE N'LY HEADWALL OF THE R.W.C. CANAL, 170'± NW OF THE INTERSECTION OF THIRD ST. AND COMMERCE ST.  
**ELEVATION 881.022**

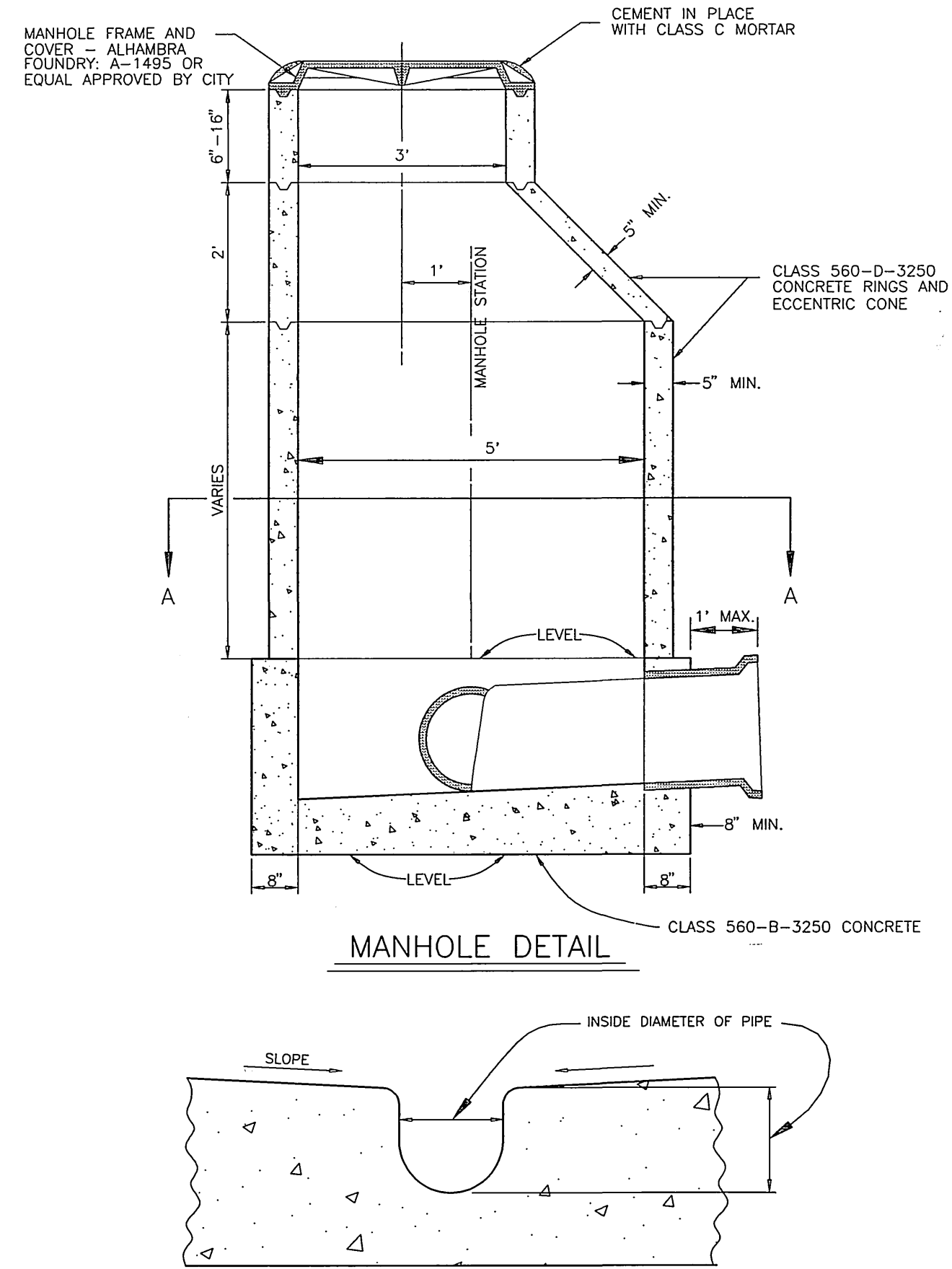


**NOTES FOR MANHOLE CONSTRUCTION:**

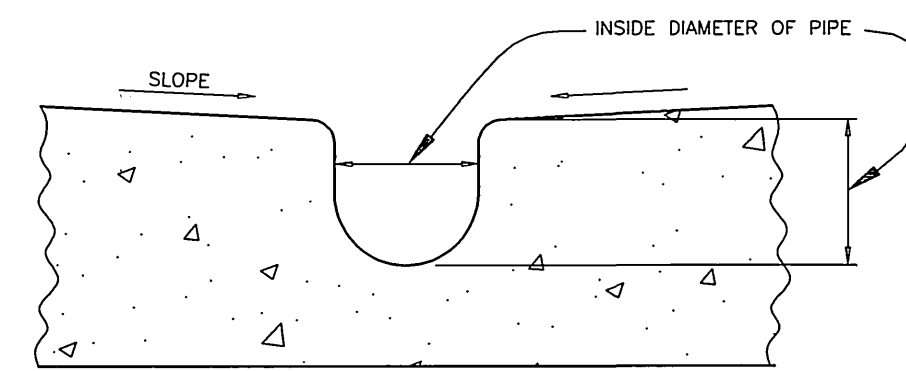
1. ALL JOINTS SHALL BE SET IN CLASS C PORTLAND CEMENT MORTAR AND SHALL BE SACK FINISHED.
2. RINGS AND CONES SHALL BE REINFORCED WITH #4 ROUND STEEL WOUND SPIRALLY ON 4" CENTERS.
3. VERTICAL WALL OF CONE SHALL BE ON DOWNSTREAM SIDE OF MANHOLE.
4. FIRST PIPE JOINT SHALL BE NO MORE THAN 1' FROM MANHOLE.
5. AT THE CONTRACTOR'S OPTION, THICKNESS OF MANHOLE WALL MAY BE 4 1/8" PROVIDED CLASS 560-D-4000 CONCRETE IS USED.
6. COVER SHALL HAVE LETTER S IN CENTER.



SECTION A-A



MANHOLE DETAIL



SECTION B-B

**GENERAL NOTES:**

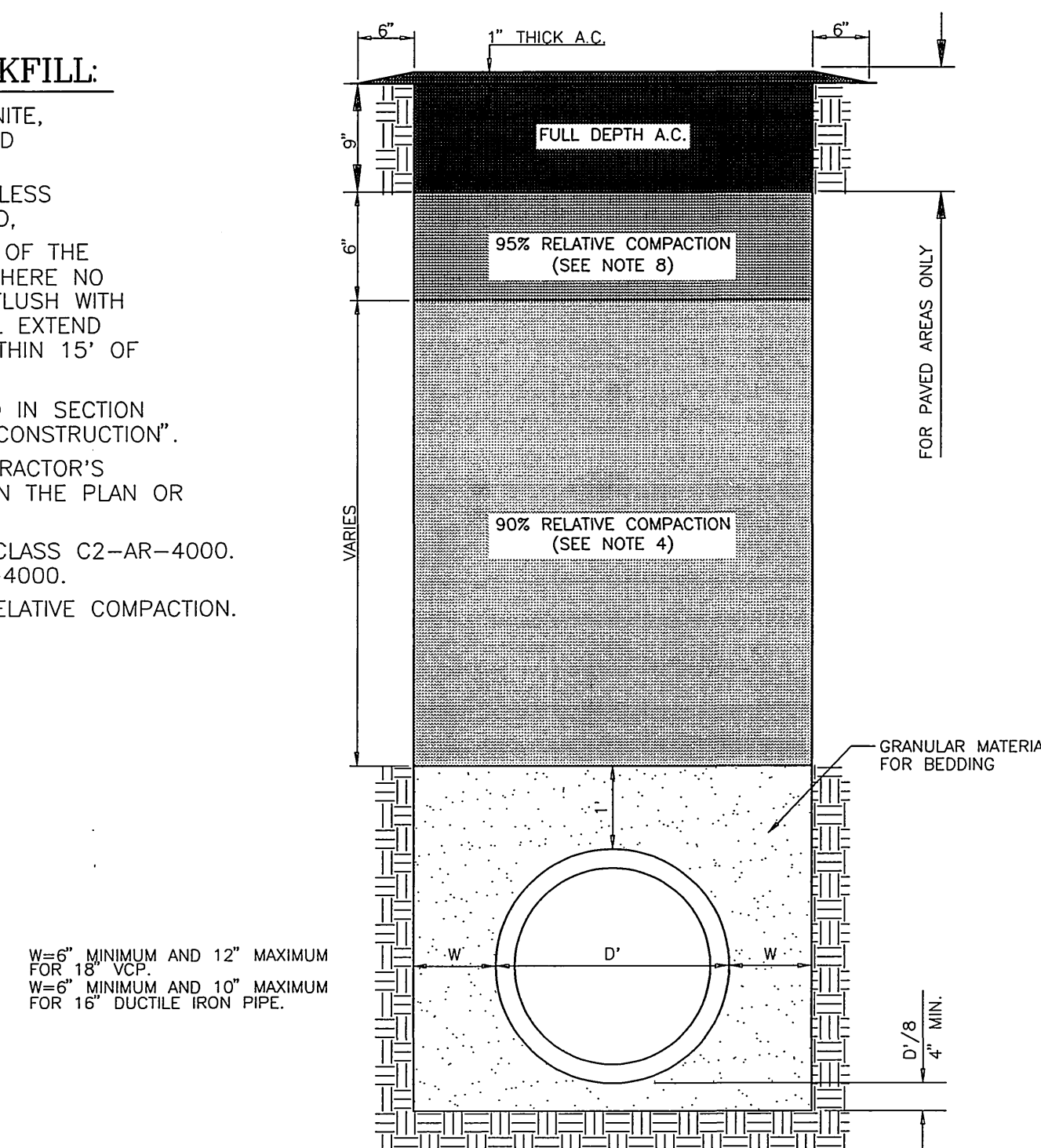
1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1994 EDITION.
2. ALL ELEVATIONS SHOWN ON THE PLANS SHALL BE STAKED IN THE FIELD.
3. EXISTING UTILITIES SHOWN ON THE PLANS ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THE PLAN. CONTRACTOR SHALL POTHOLE AND VERIFY ALL LOCATIONS AND ELEVATIONS OF UTILITIES PRIOR TO START OF CONSTRUCTION TO ELIMINATE INTERFERENCE WITH NEW CONSTRUCTION.
4. THE CONTRACTOR SHALL EXPOSE ALL CONNECTION POINTS TO THE EXISTING SEWER SYSTEM FOR VERIFICATION OF LOCATION AND ELEVATION PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL COORDINATE WITH THE CITY'S INSPECTOR THE PROPOSED METHOD OF CONNECTING THE NEW SEWER PIPE TO THE EXISTING SEWER PIPE AND OF MAINTAINING SEWAGE FLOW DURING CONSTRUCTION.

**CONSTRUCTION NOTES:**

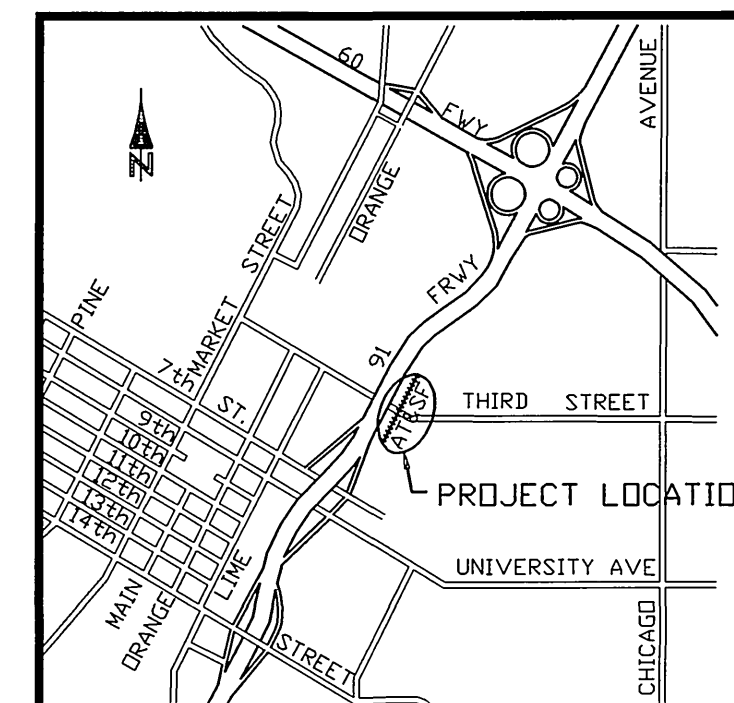
1. CONSTRUCT 18" VITRIFIED CLAY PIPE. PIPE BEDDING AND TRENCH BACKFILL DETAILS SHALL BE IN ACCORDANCE WITH THE BEDDING DETAIL ON THIS SHEET.
2. CONSTRUCT 16" DUCTILE IRON PIPE. PIPE AND FITTING EXTERIOR SURFACE SHALL BE SEALED WITH A BITUMINOUS COATING IN ACCORDANCE WITH AWWA C 151 OR AWWA C 110. PIPE BEDDING AND TRENCH BACKFILL DETAILS SHALL BE IN ACCORDANCE WITH THE BEDDING DETAIL ON THIS SHEET.
3. CONSTRUCT MANHOLE PER DETAIL ON THIS SHEET.
4. CONNECT PROPOSED 16" DUCTILE IRON PIPE TO EXISTING 16" VCP WITH A MECHANICAL TRANSITIONAL COUPLING. CONTRACTOR MUST DETERMINE EXACT SIZE OF EXISTING VCP PRIOR TO CONSTRUCTION.
5. REMOVE EXISTING MANHOLE AFTER COMPLETION OF NEW SEWER AND ABANDON ALL EXISTING PIPES CONNECTED TO THE MANHOLE.
6. BREAK OUT EXISTING V.C.P. IN MANHOLE AFTER COMPLETION OF NEW SEWER.

**NOTES FOR PIPE BEDDING & TRENCH BACKFILL:**

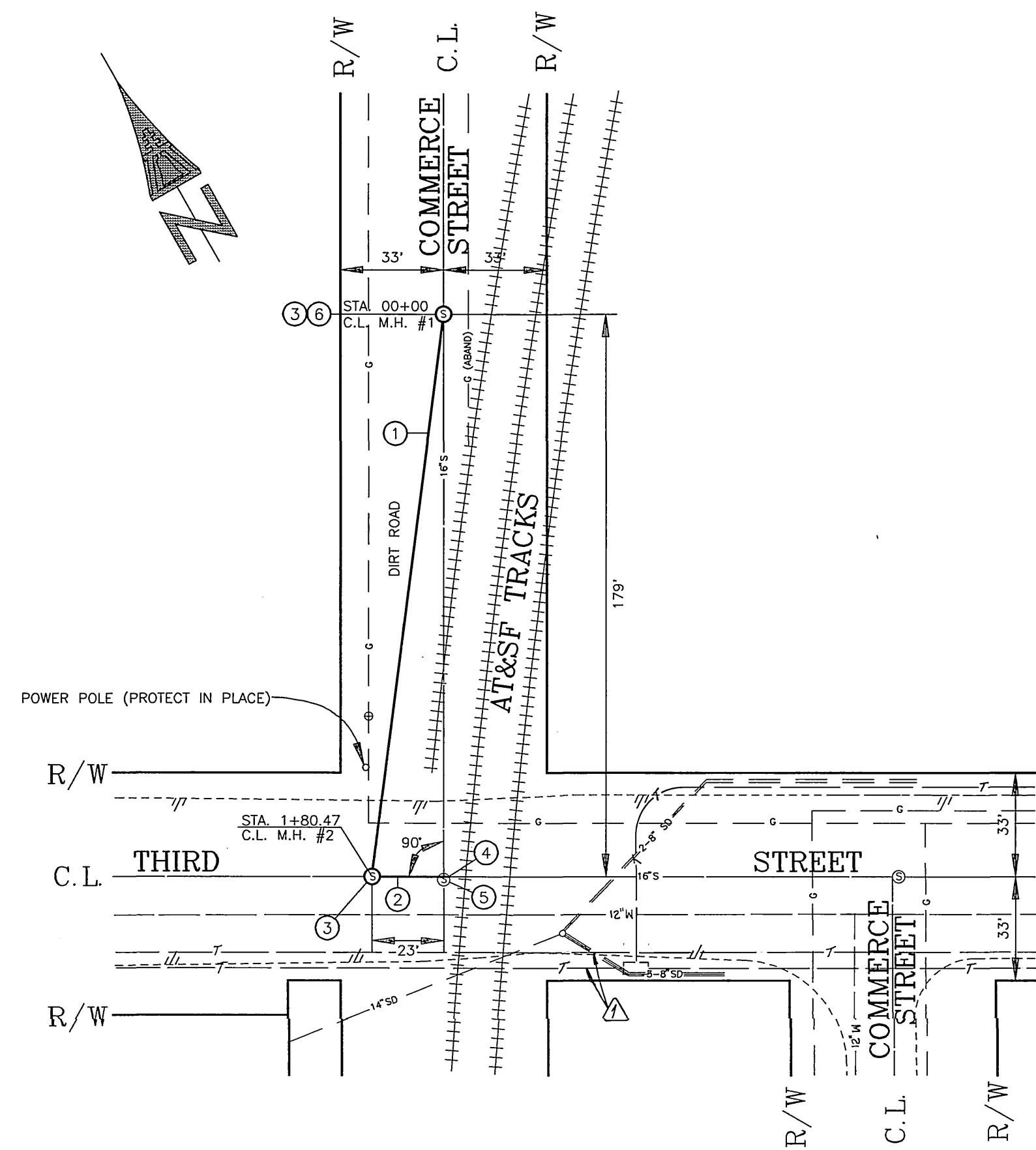
1. GRANULAR MATERIAL SHALL BE SAND, GRAVEL, DISINTEGRATED GRANITE, CRUSHED SLAG, CRUSHED AGGREGATE OR NATIVE SOIL WITH A SAND EQUIVALENT OF NOT LESS THAN 30.
2. TRENCH WALLS SHALL BE VERTICAL WITHIN THE BEDDING AREA, UNLESS IMPROVED BEDDING, AS APPROVED BY THE CITY ENGINEER, IS USED.
3. BACKFILL REQUIREMENTS SHALL BE AS SPECIFIED IN SECTION 306 OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION". WHERE NO SURFACE IMPROVEMENTS EXIST, THE TOP OF BACKFILL SHALL BE FLUSH WITH THE EXISTING SURFACE AND THE 90% RELATIVE COMPACTION SHALL EXTEND TO THE SURFACE. FOR BACKFILL OVER DUCTILE IRON PIPE AND WITHIN 15' OF A POWER POLE, 95% FULL DEPTH COMPACTION IS REQUIRED.
4. REPLACEMENT OF SURFACE IMPROVEMENTS SHALL BE AS SPECIFIED IN SECTION 306-1.5 OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
5. ALL SURFACE IMPROVEMENTS DAMAGED OR REMOVED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED UNLESS OTHERWISE SPECIFIED ON THE PLAN OR IN THE SPECIAL PROVISIONS.
6. ASPHALT CONCRETE USED FOR PERMANENT SURFACING SHALL BE CLASS C2-AR-4000. ASPHALT CONCRETE FOR OVERLAY WORK SHALL BE CLASS D2-AR-4000.
7. FOR UNPAVED AREAS, UPPER 3' SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.



PIPE BEDDING & TRENCH BACKFILL



LOCATION MAP



**IMPORTANT NOTICE**

Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call Underground Service Alert  
**TOLL FREE 1-800-422-4133**  
 Two working days before you dig.



ENGINEER IN RESPONSIBLE CHARGE  
 Duane K. Greenwood  
 DUANE K. GREENWOOD  
 R.C.E. No. 43965 expires 6/30/97  
 DATE 11/28/94

ADDED EXISTING TELEPHONE LINE  
 APPROVED BY: [Signature]  
 DESIGNED BY: P.H. DRAWN BY: P.H. CHECKED BY: [Signature]

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY: [Signature]  
 DEPUTY P.W. DIRECTOR  
 PRINCIPAL ENGINEER  
 CHIEF P.W. INSPECTOR  
 SUPERVISOR  
 DATE 11/30/94

**THIRD STREET  
 SEWER REALIGNMENT**  
 AT A.T. & S.F. RAILROAD CROSSING

ACCOUNT NUMBER  
 551-741290-440301-40183  
**S-1671**  
 SHEET 1 OF 1  
 FILE NO.: