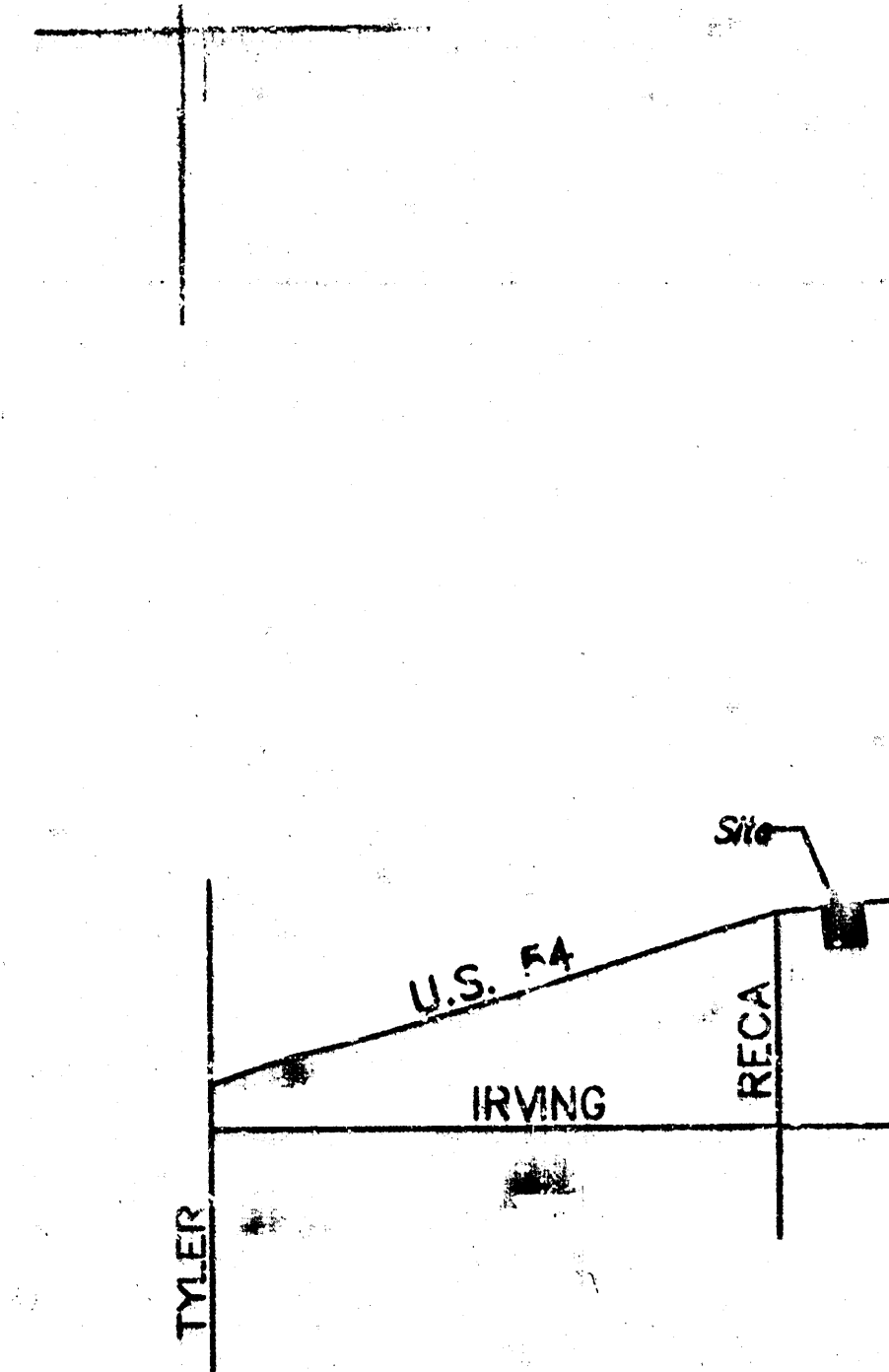
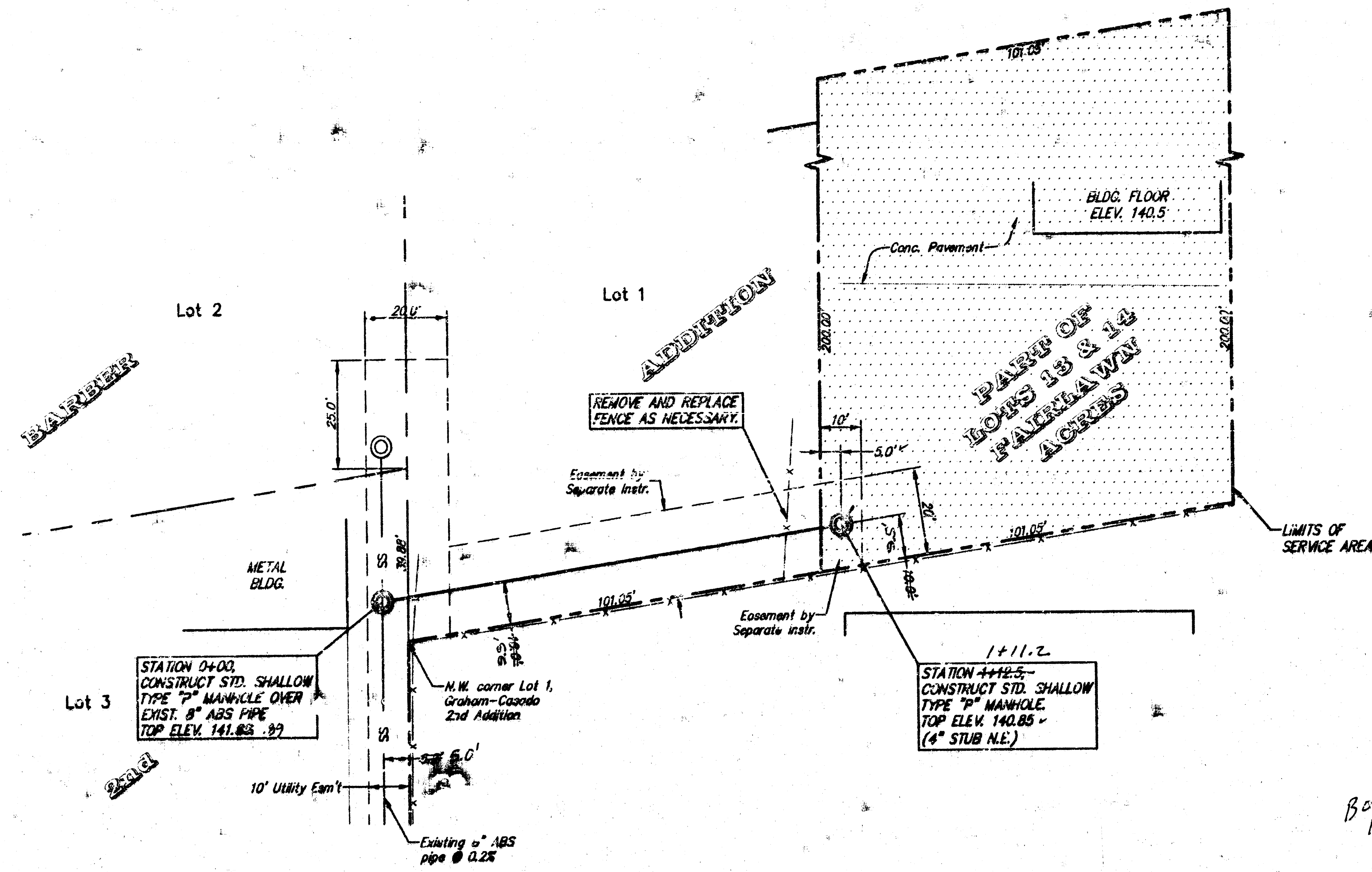




LOCATION MAP



SCALE:
1"=20' PLAN
1"=5' PROFILE (V)

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewer VRH 11/12/96

Storm Sewer _____

Utility Approaches _____

Water Mains _____

Paving _____

NOTE TO CONTRACTORS

Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Engineer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in indicated easements or public right-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer.

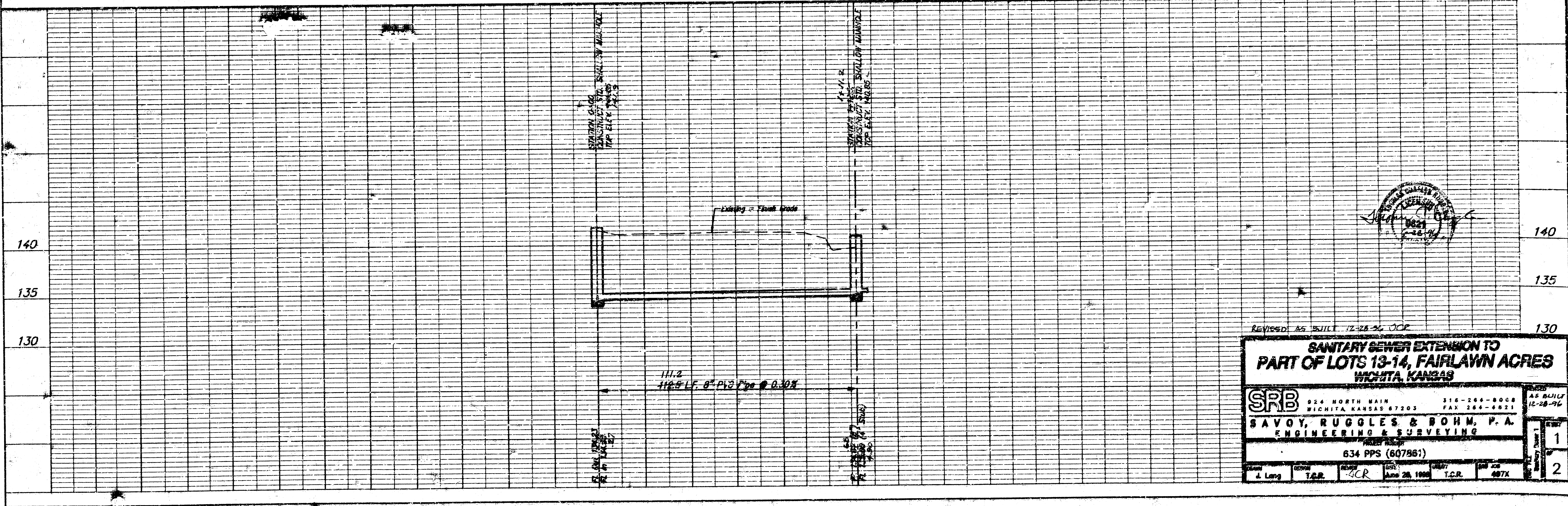
BENCH MARKS:

1. City of Wichita and disc at S.W. corner of Woodchuck and Kellogg Drive Elevation = 138.91 City Datum
2. Railroad spike in north face of power pole at N.E. corner of Lot 1, Barber 2nd Addition. Elevation = 140.54 City Datum

GENERAL NOTES:

1. The Contractor shall be responsible for preserving property lines. The Contractor will be required to re-establish any property lines which are damaged or destroyed by his construction operations. Such lines shall be re-established by a licensed land surveyor in accordance with state laws.
2. The Contractor will be required to provide a minimum notice of forty-eight (48) hours to utility companies prior to starting any excavation, through Kansas One-Call at 887-2470.
3. All unpaved areas disturbed by Contractor's operations shall be restored in accordance with Administrative Regulation AP-78.

Booked
1/23/97
RPL



REVISED AS BUILT 12-28-96 JCR

**SANITARY SEWER EXTENSION TO
PART OF LOTS 13-14, FAIRLAWN ACRES
WICHITA, KANSAS**

SRB 924 NORTH MAIN 316-266-8008
WICHITA, KANSAS 67203 FAX 316-266-8021

SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

634 PPS (607881)

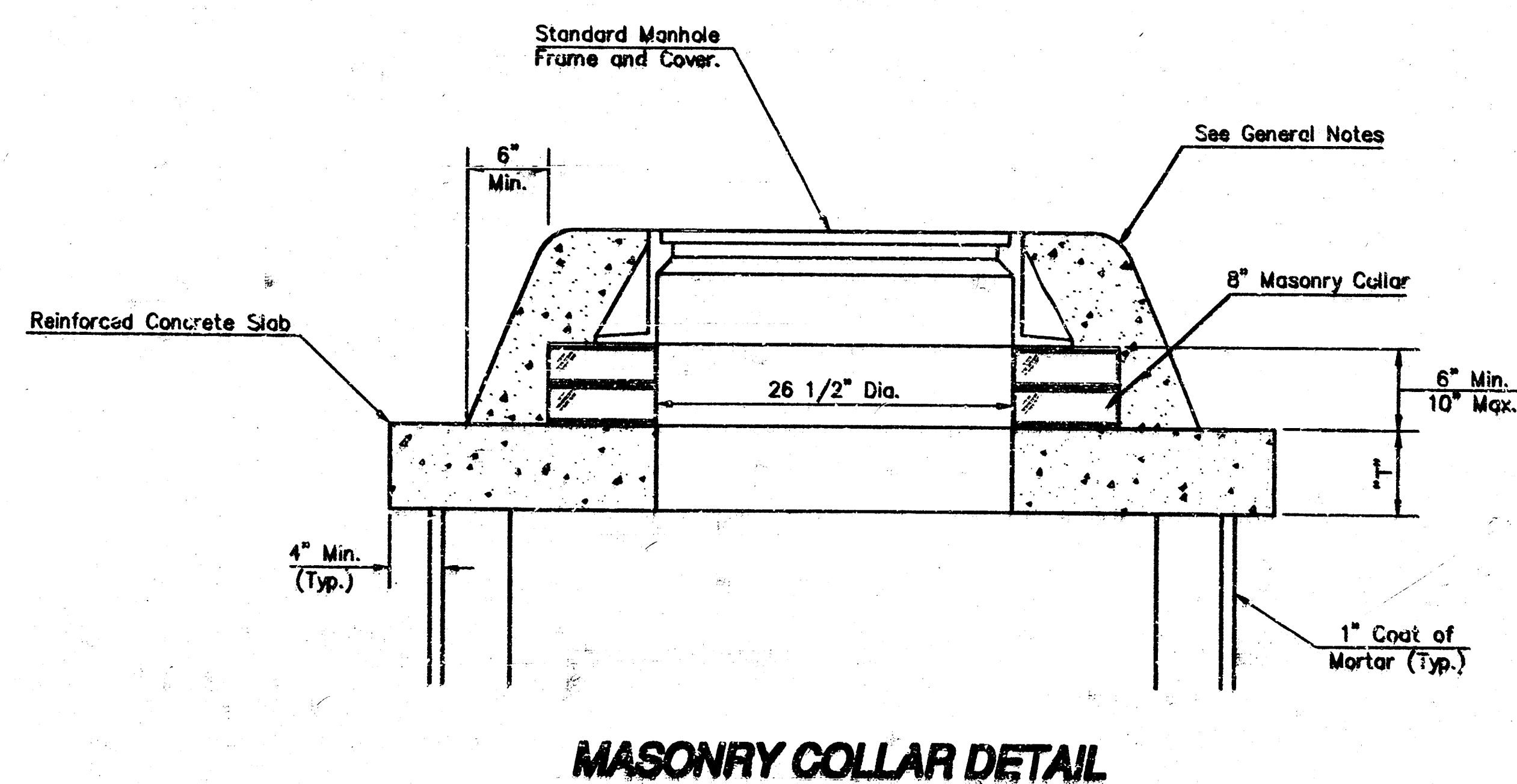
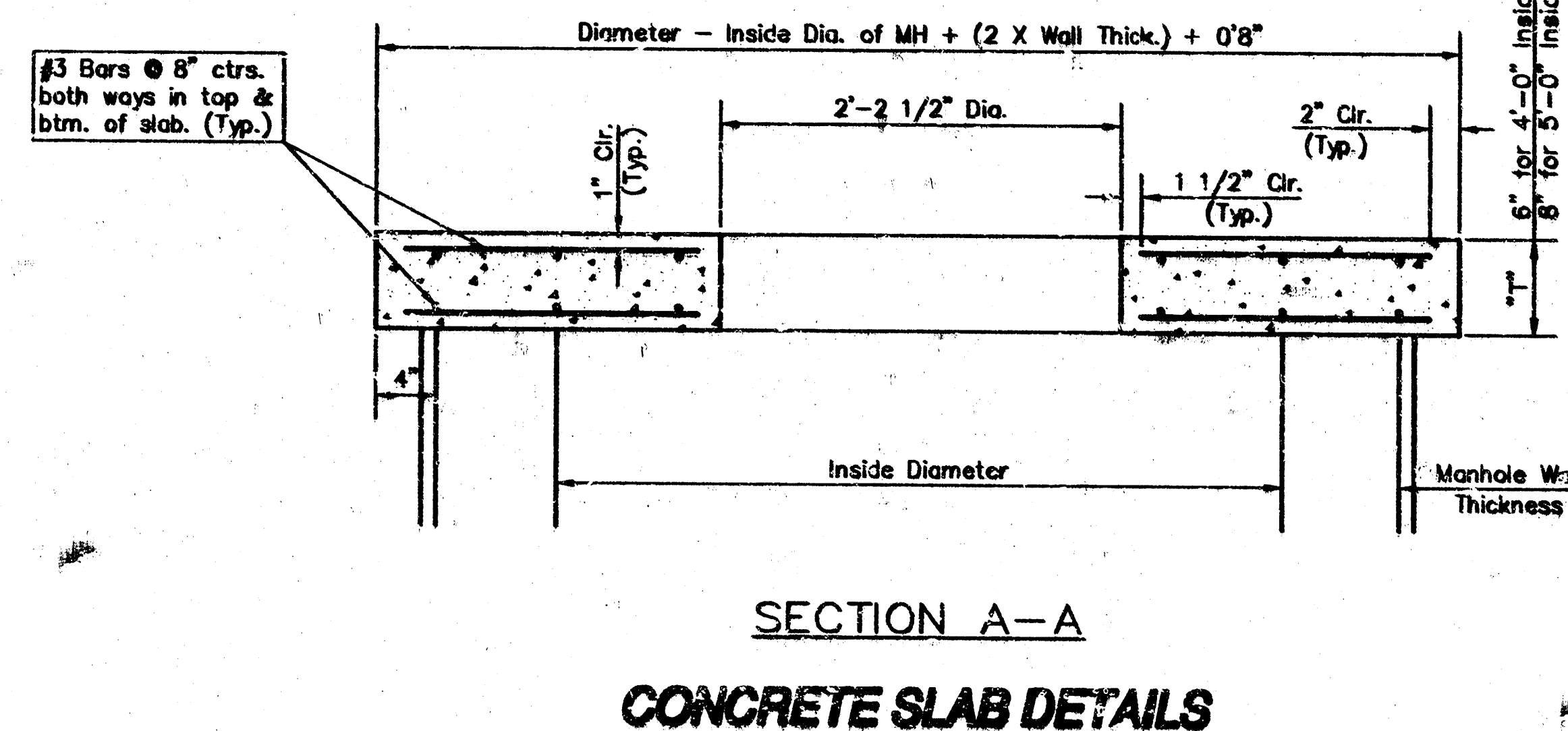
DATE: June 28, 1996

DESIGN: T.C.R. CHECKED: JCR

AS BUILT 12-28-96

1

2



1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASUREMENT A MINIMUM OF FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR W.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER WASTE SHALL BE COATED WITH 2 COATS INEMEC SERIES 66 14-BUILD EPOXYKONE, DRY THICKNESS OF 8 MILS (WGL).
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOHILARMA 633 BITUMINOUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE SURROUNDING BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 BAGS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION PER THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNIMPAVED AREAS. MORTAR SHALL BE PLACED AROUND THE SEWER SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4" MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5". COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL BE CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLE WILL BE SELF-CLEANING AND FREE OF AREAS WHERE SOLIDS COULD DEPOSIT. THE SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM VALVES OF THE INFLUENCING PIPES AND THE OUTLET DRAINING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSET DROP MANHOLES. FLOW CHANNELS FOR INSET DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE DIRECTION OF THE OUTLET PIPE. FLOW CHANNELS SHALL HAVE THE TOP HALF REMOVED TO LEAVE LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
13. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE GRADED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION WHEN CLAY PIPE IS USED. THE GRADE SHALL EXTEND TO THE FIRST JOINT ABOVE THE MANHOLE. THE GRADE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE PROBABILITY OF THE EXISTING GRADE WITHIN THE MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO THE MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
14. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
15. ALL BRICK USED IN MANHOLE CONSTRUCTION SHALL MEET GRADE SW OF ASTM C652 OR C62-87.

**PART OF LOTS 13-14, FAIRLAWN ACRES ADDITION
SHALLOW TYPE "P" MANHOLE DETAILS
WICHITA, KANSAS**

SRB 924 NORTH MAIN 316-264-8008
WICHITA, KANSAS 67203 FAX 264-4621

**SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING**

PROJECT NUMBER
634 PPS (607861)

DESIGN	DATE	UTILITY	SRB JOB
DESIGN	June 25, 1980		497X