

Lat. 124, Westlink Sewer  
SANITARY SEWER IMPROVEMENTS  
TO SERVE

**TIMBER RIDGE 3RD ADDITION**

Project Number  
**468-76-245-82594-000-000-001**

Index Code  
**742981**

**CITY OF WICHITA, KANSAS**  
Michael E. Lindobak, P.E. City Engineer

**General Notes**

1. Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

Kansas One-Call 687-2470

The Contractor must notify the following in case of an emergency:

|                                     |            |
|-------------------------------------|------------|
| Cablevision                         | 262-4270   |
| or                                  | 263-2061   |
| K.G.E. Gas Service Company          | 383-8650   |
| Kansas Gas & Electric Company       | 383-8600   |
| Peoples Natural Gas Company         | 942-7600   |
| Southwestern Bell Telephone Company | 1-571-2611 |
| City of Wichita Water Department    | 268-4908   |
| City of Wichita Sewer Maintenance   | 268-4071   |

2. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction, unless the plans specifically call for their adjustment by the Contractor. Existing utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company-provided field locations. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

3. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

4. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.

5. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

6. Contractor shall grade the sanitary sewer alignment to the profile and elevations shown on the easement grading plan. All costs for grading shall be included in lump sum bid item "Easement Grading".

7. All areas disturbed by construction operations shall be seeded with rye grass at a rate of 6 lbs. per 1000 sq. feet. Contractor to prepare ground to city specifications.

8. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archeological investigations unless buried in a previously approved borrow location.

**Benchmarks:**

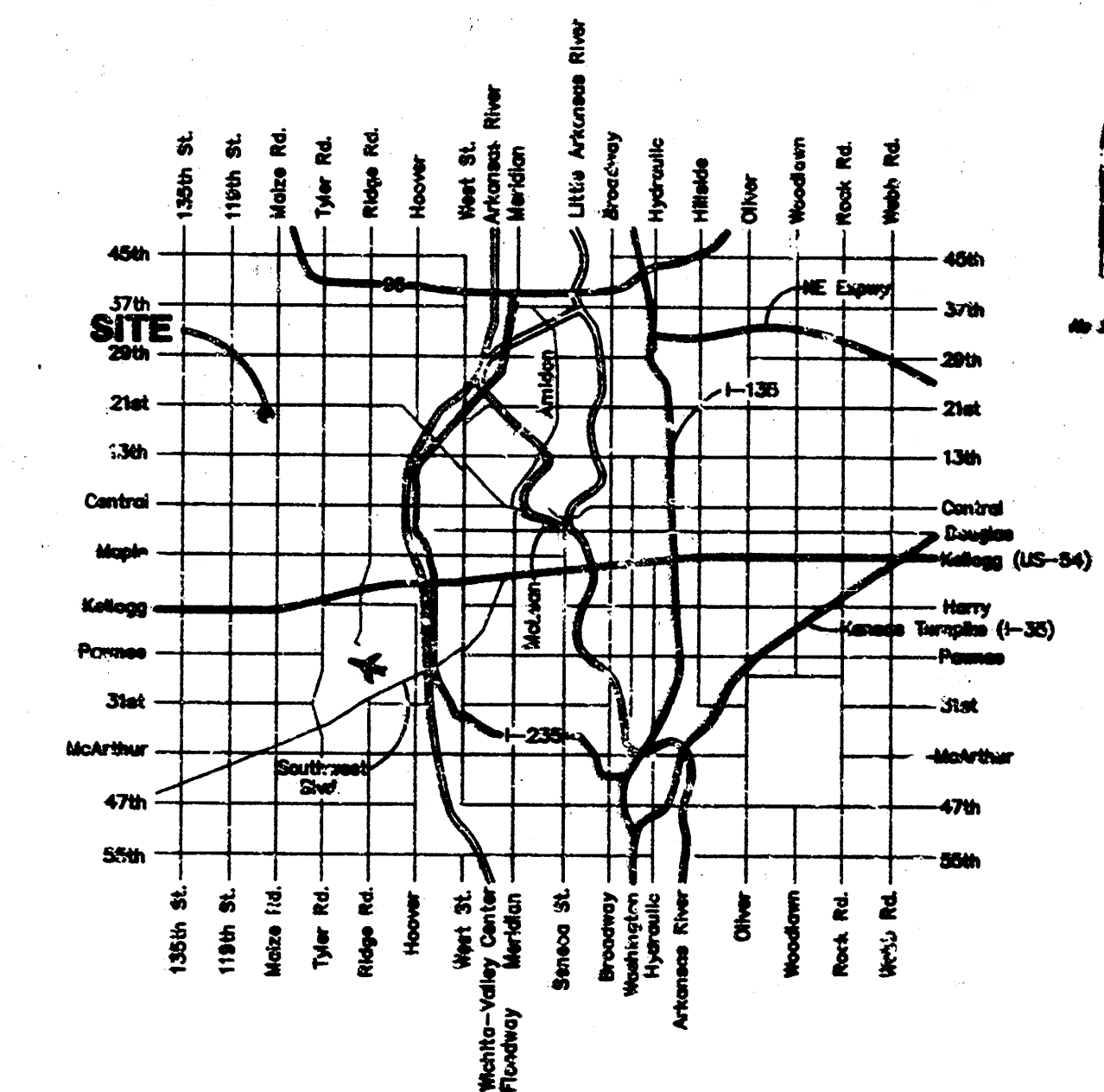
BENCH MARK: "X" Cut, Top of Curb, 14.5' E. & 15' S. of the N.E. Corner of Lot 1, Block 1, Timber Ridge 2nd Addition, Wichita, Sedgwick County, Kansas  
Elevation = 159.26 (City Datum)

**Index:**

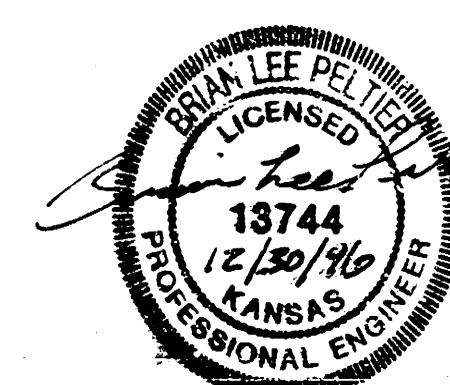
- 1 Title Sheet
- 2 Plan/Profile
- 3 Easement Grading Plan
- 4 Standard Manhole Detail Sheet
- 5 Riser Detail Sheet
- 6 Copy of Plat



Benefit District:



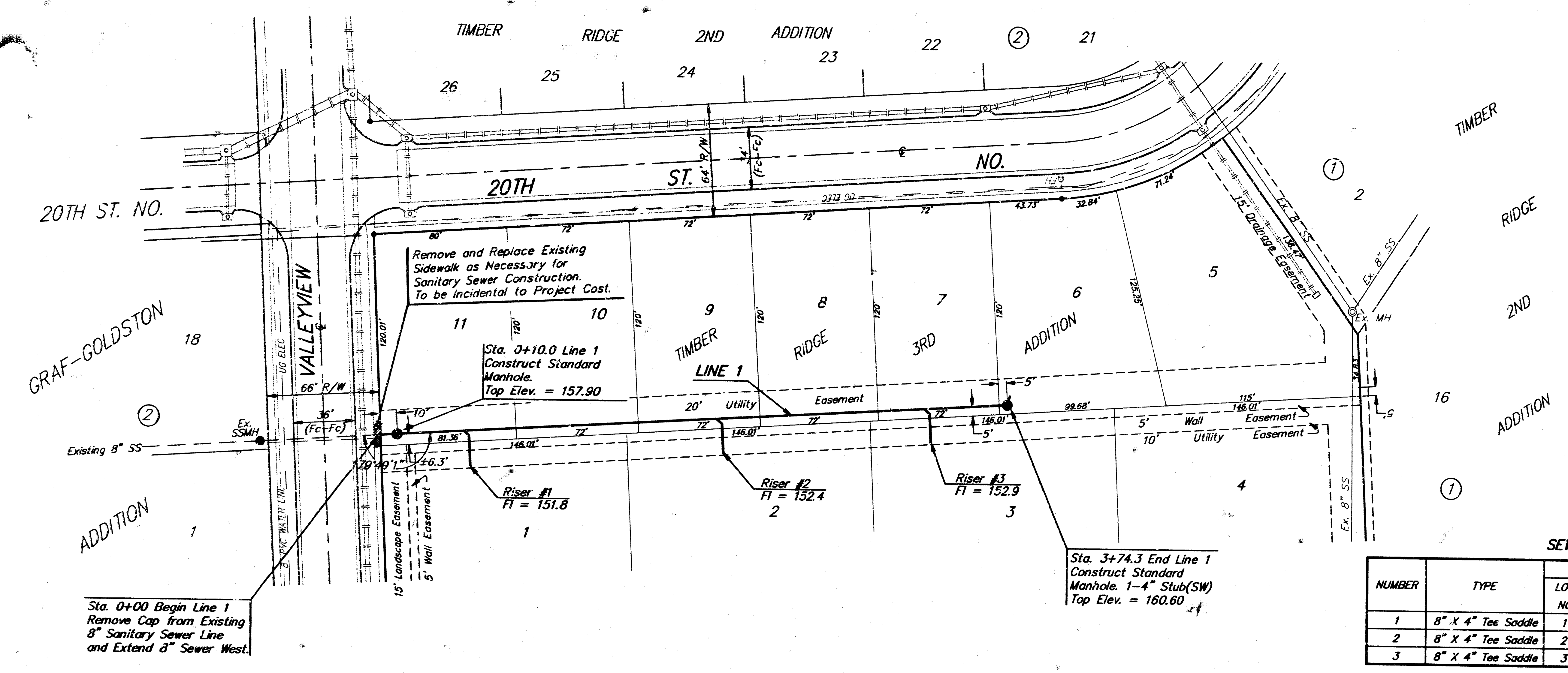
Booked  
N-254  
RDL



**BAUGHMAN COMPANY P.A.**  
ENGINEERING, SURVEYING, & PLANNING  
315-262-7271 • 315-262-7271 • WICHITA, KANSAS 67211

BENCHMARK:  
 "C" CUT, TOP OF CURB, 14.5' E. & 15' S. OF THE  
 NE CORNER OF LOT 1, BLOCK 1, TIMBER RIDGE 2ND  
 ADDITION, MOHITA, SEDGWICK COUNTY, KANSAS.  
 ELEV. = 159.26 CITY DATUM

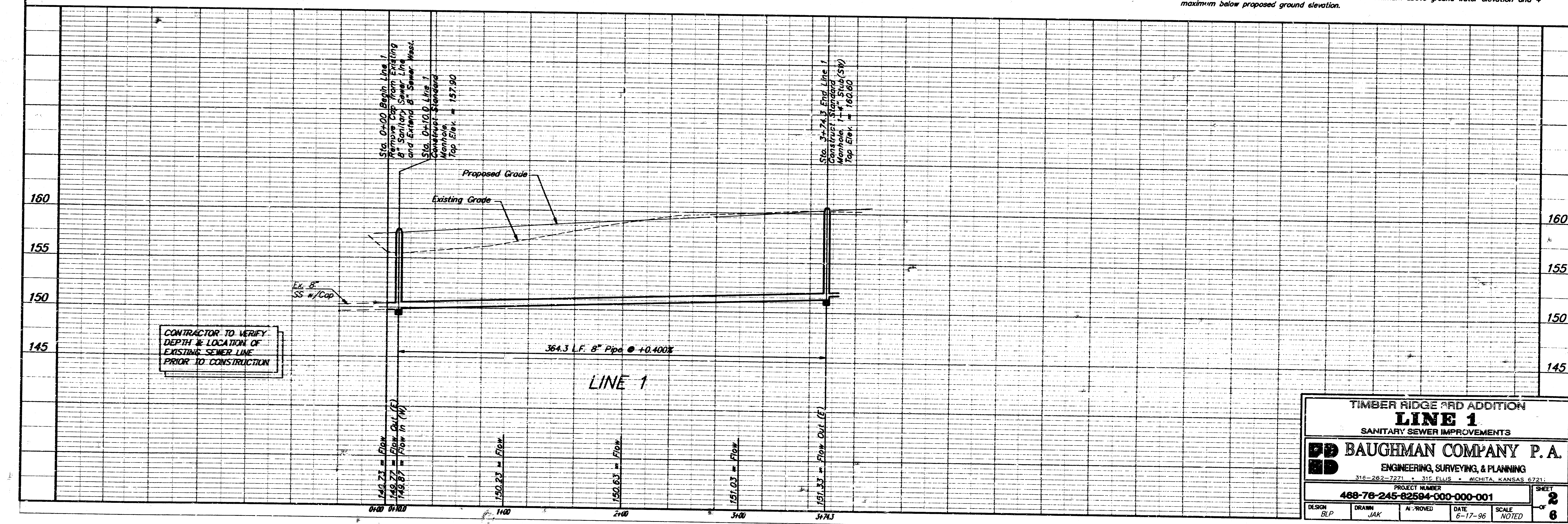
SCALE:  
 1" = 40' HORIZONTAL  
 1" = 5' VERTICAL  
 • = IRON



SEWER SERVICE TABLE

| NUMBER | TYPE               | LOCATION |           |          | FOR INFORMATION ONLY |                                                   |
|--------|--------------------|----------|-----------|----------|----------------------|---------------------------------------------------|
|        |                    | LOT NO.  | BLOCK NO. | LINE NO. | STATION\ DIRECTION   | APPROXIMATE LENGTH 4" PIPE<br>VERTICAL HORIZONTAL |
| 1      | 8" X 4" Tee Saddle | 1        | 1         | 1        | 0+50/Rt.             | 4.5' 20'                                          |
| 2      | 8" X 4" Tee Saddle | 2        | 1         | 1        | 2+00/Rt.             | 2.5' 20'                                          |
| 3      | 8" X 4" Tee Saddle | 3        | 1         | 1        | 3+25/Rt.             | 1.0' 20'                                          |

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

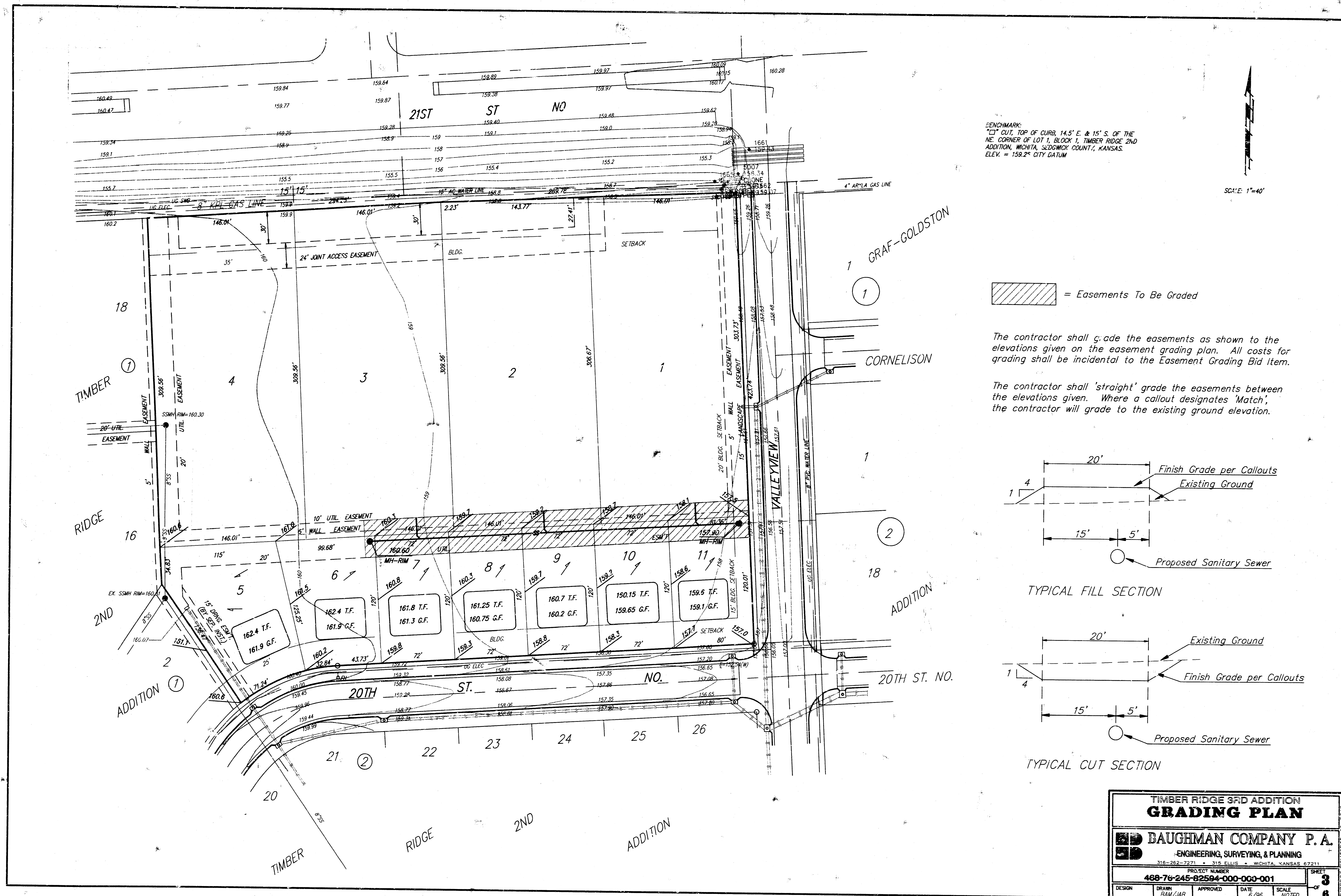


TIMBER RIDGE 3RD ADDITION  
**LINE 1**  
 SANITARY SEWER IMPROVEMENTS

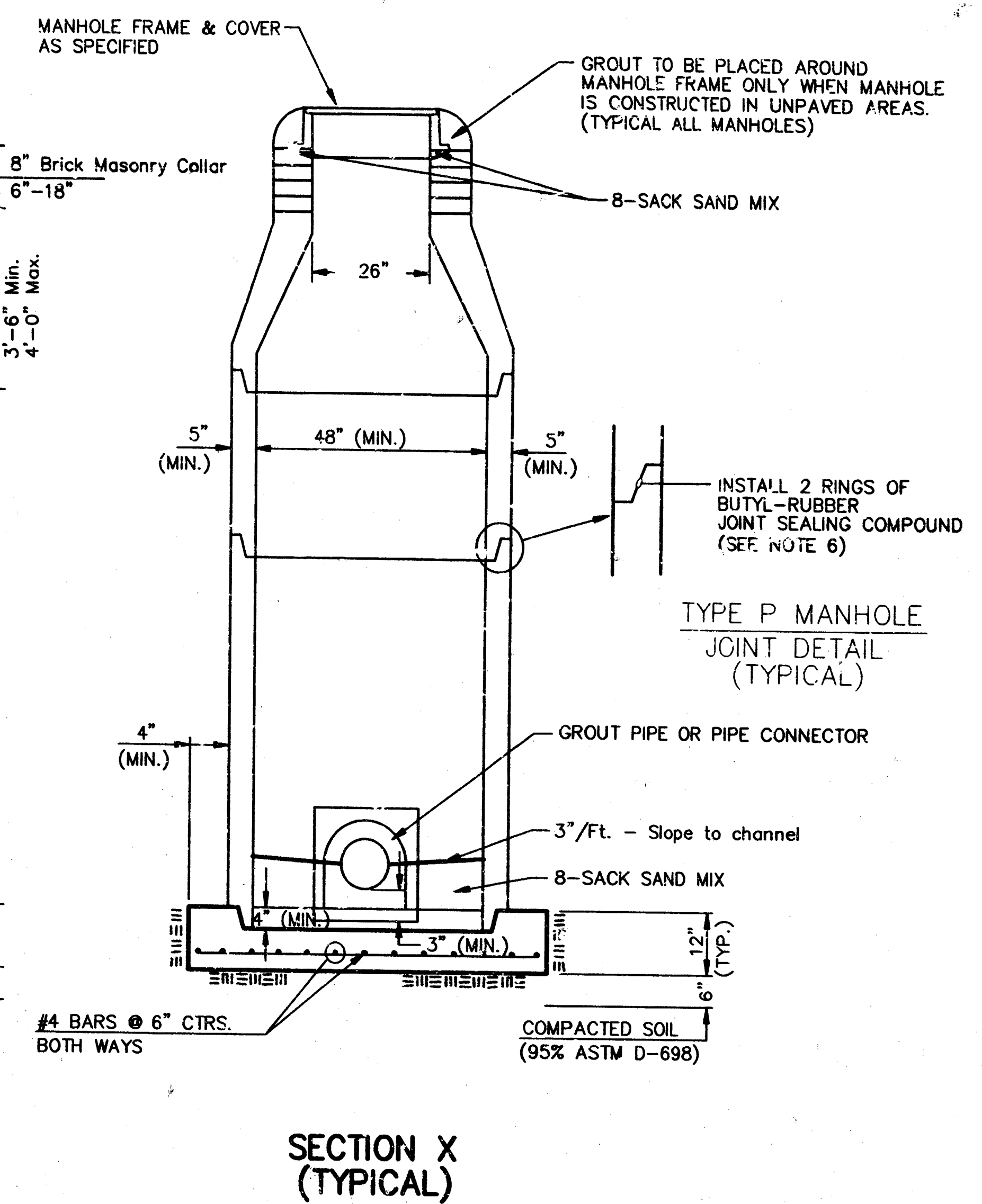
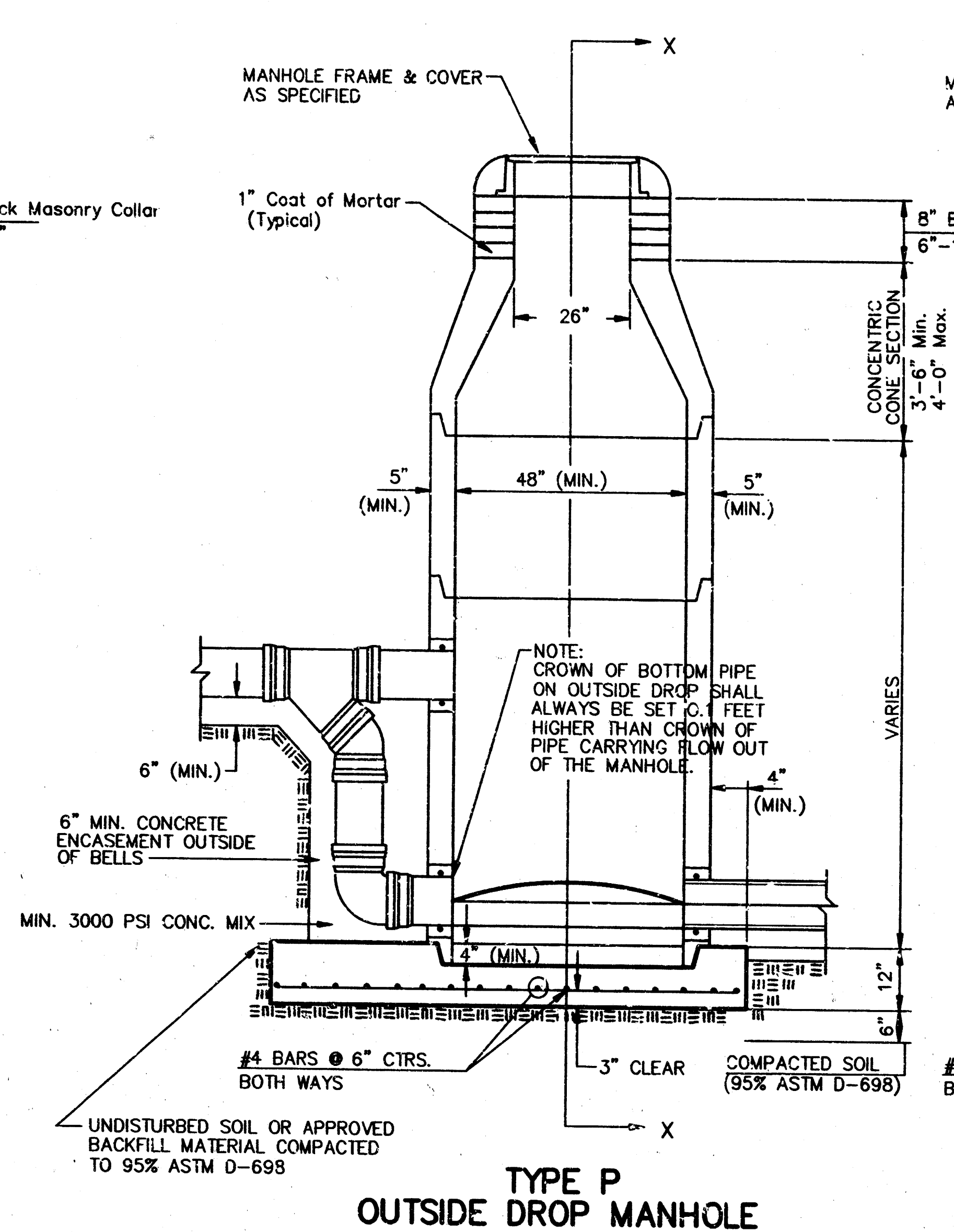
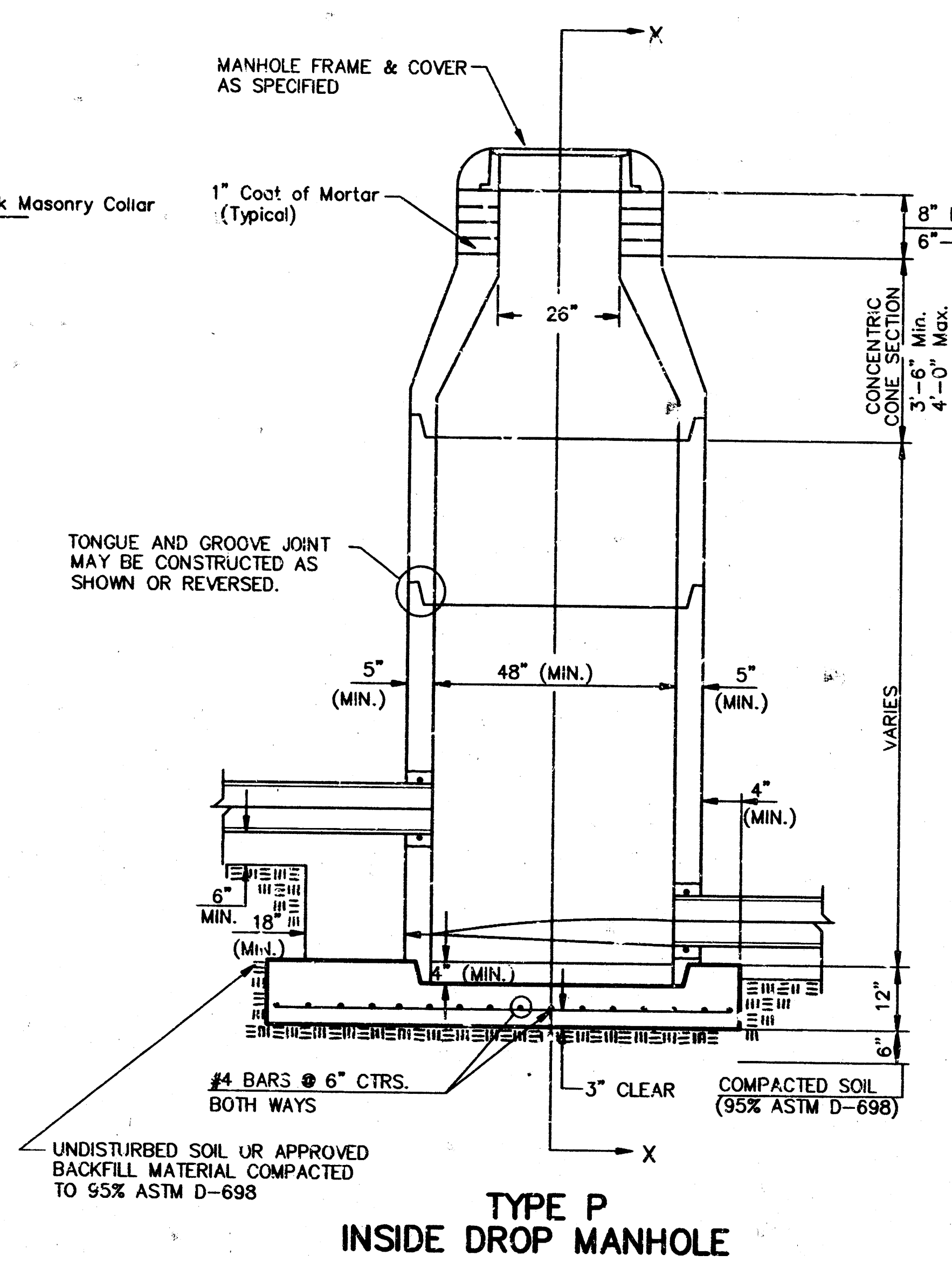
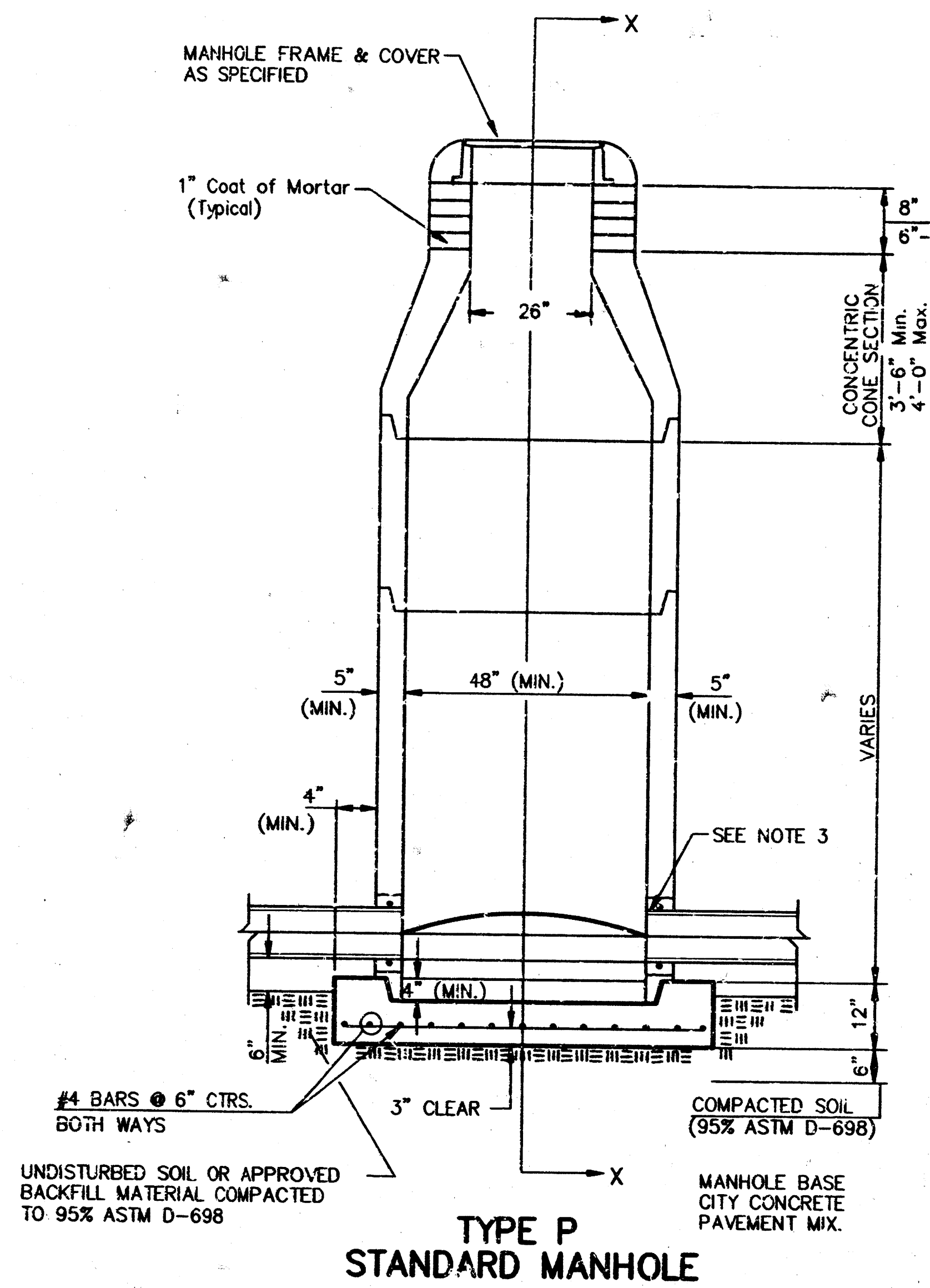
**BAUGHMAN COMPANY P.A.**  
 ENGINEERING, SURVEYING, & PLANNING  
 316-262-7271 • 316-262-7272 • MOHITA, KANSAS 67211

PROJECT NUMBER  
**468-76-245-82594-000-000-001**

DESIGN: BLP DRAWN: JAK IN CHARGE: JAK DATE: 6-17-96 SCALE: NOTED SHEET: 2 OF 6



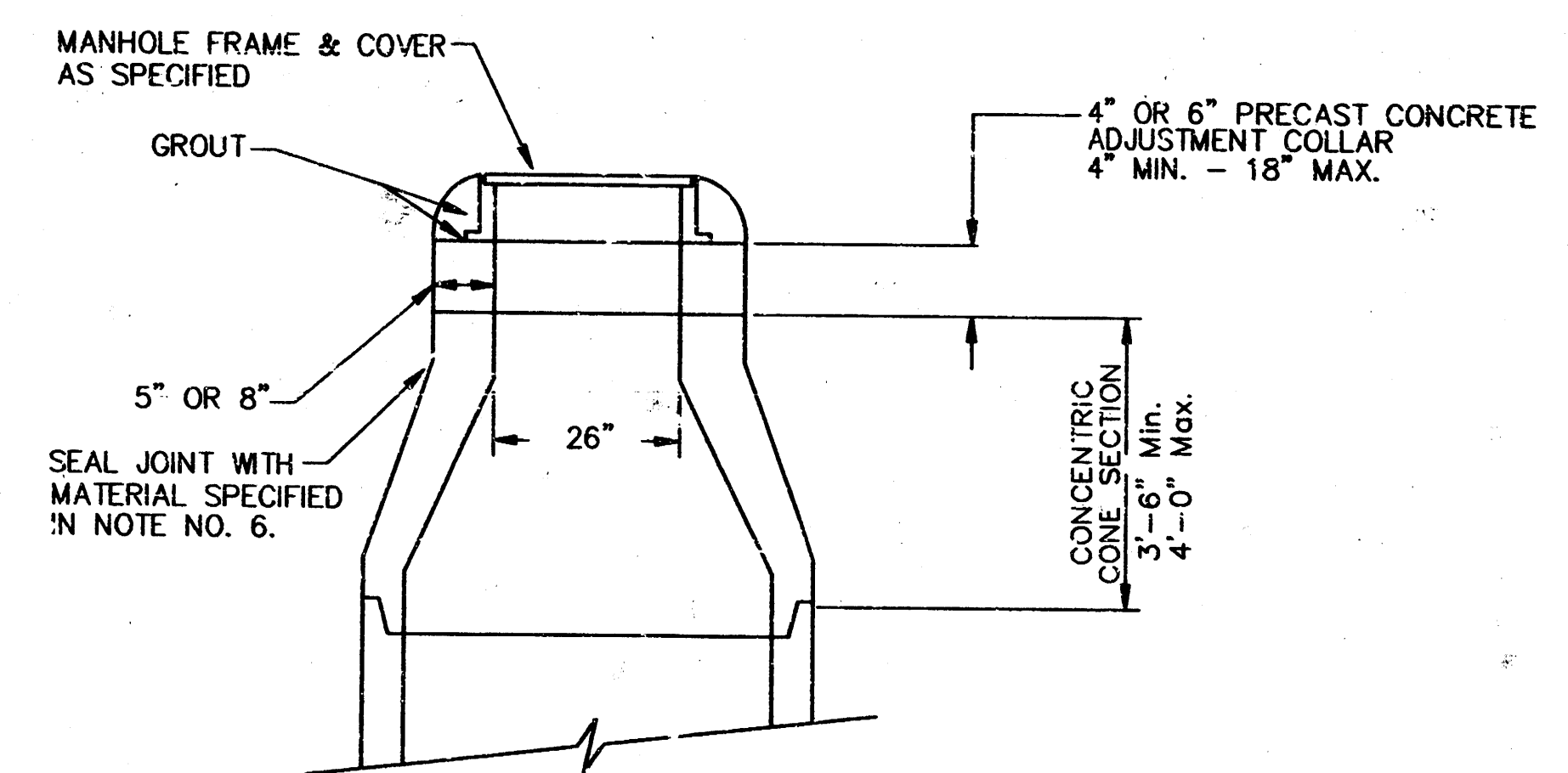
# SEWER APPURTENANCES DETAILS



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 JOINT SHALL BE SUPPORTED WITH CONCRETE ENCAUSTIC A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS OF TINEAC SERIES 68 HI-BUILD EPOXYLINE, DRY THICKNESS OF 8 MILS (MIN.).
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 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 MANHOLE 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 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE 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 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 FLOORING AND REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICABLE TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS WILL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GRouted WITH A NONSHRINKING APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. NO WORK SHALL BE DONE ON THE EXTERIOR OF THE FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE INCLUDED AT THE UNIT PRICE FOR THE OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTLET PIPE. THE FLOW CHANNELS SHALL BE FORMED FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. INSIDE DROP FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE DIRECTION OF THE FLOW. FLOORS SHALL SLOPE TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. THE MANHOLE FLOOR SHALL BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
14. PIPES INSTALLED THROUGH THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE TOP OF THE MANHOLE. WHEN EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPES JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE PIPE. THE CRADLE WITHIN THE MANHOLE EXCAVATION OR CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

15. 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.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. INSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALL AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.



## ALTERNATE CONSTRUCTION IN UNPAVED AREAS

|                                               |                  |                               |      |       |
|-----------------------------------------------|------------------|-------------------------------|------|-------|
| CITY OF WICHITA                               |                  |                               |      |       |
| <b>STD. MANHOLE DETAILS</b>                   |                  |                               |      |       |
| <b>&amp; SEWER APPURTENANCES DETAILS</b>      |                  |                               |      |       |
| <b>BAUGHMAN COMPANY P.A.</b>                  |                  |                               |      |       |
| <b>ENGINEERING, SURVEYING, &amp; PLANNING</b> |                  |                               |      |       |
| 316-262-7222                                  |                  | ELIUS - WICHITA, KANSAS 67211 |      |       |
| PROJECT NUMBER                                |                  |                               |      |       |
| <b>468-78-245-82584-000-000-001</b>           |                  |                               |      |       |
| DESIGN                                        | DRAWN<br>NOV. 93 | APPROVED                      | DATE | SCALE |
|                                               |                  |                               |      |       |

CITY OF WICHITA, KANSAS  
OCTOBER 1992 \*



NOTE: RISER PIPE REQUIREMENTS AT MANHOLE STUBS SHALL BE SIMILAR TO THOSE SHOWN ABOVE.

- "Manhole stubs" shall be paid for at the contract unit price per each, which shall be full compensation for all labor, material, and incidentals necessary to complete the work including all pipe, fittings, reinforced concrete encasement, and all other items as required and listed for "Sanitary Sewer Risers".

|                                                                                                                          |       |          |      |                                     |
|--------------------------------------------------------------------------------------------------------------------------|-------|----------|------|-------------------------------------|
| City of Wichita Standard<br><b>Riser Details</b>                                                                         |       |          |      |                                     |
| <b>BAUGHMAN COMPANY P.A.</b><br>ENGINEERING, SURVEYING, & PLANNING<br>315 - 282-7271 • 315 ELIUS • WICHITA, KANSAS 67211 |       |          |      |                                     |
| PROJECT NUMBER<br><b>468-78-245-82584-000-000-001</b>                                                                    |       |          |      | SHEET<br><b>5</b><br>OF<br><b>8</b> |
| DESIGN                                                                                                                   | DRAWN | APPROVED | DATE | SCALE                               |

- = IN REAR V/ "BAUGHMAN" CAP (SET)
- X = CROSS CUT (SET)
- ✓ = ✓ MORAN (SET)
- ⑥ = 44 MORA IN PIVOT (FOUND)

Baughman Co., P.A.

*First National Bank of Anthony*

*Richard Cierny* V.P.  
Richard Cierny (True)

State of Kansas)  
Sedgewick County) ss The foregoing instrument acknowledged be-  
fore me, this 14th day of March, 1996, by Kenneth C. Gentry  
Vice President of First National Bank of Anthony, on behalf of the bank.  
(Title)

Deirdre M. Ginn Notary Public

My App't. Exp. 12-12-99

This plot of "TIMBER RIDGE 3RD ADDITION",  
Wichita, Sedgwick County, Kansas has been submitted to and approved  
by the Wichita-Sedgwick County Metropolitan Area Planning Comm-  
ission, Wichita, Kansas.  
Dated this 25<sup>th</sup> day of JANUARY, 1996.  
Wichita-Sedgwick County Metropolitan Area Planning Commission

Susan Osborne-Howes Chair

Marvin Skrant Secretary  
Marvin S. Skrant

*This plat approved and all dedications  
shown hereon accepted by the City Council of the City of Wichita,  
Kansas, this 9th day of APRIL, 1996.*

  Mayor  
\_\_\_\_\_  
Bob Knight

 Deputy  
\_\_\_\_\_  
Pat Burnett City Clerk

Entered on transfer record this 2nd day  
of July, 1996.  
Susan E. Crockett-Sloan  
Susan E. Crockett-Sloan, County Clerk

State of Kansas)  
Sedgwick County) SS This is to certify that this plat has been  
filed for record in the office of the Register of Deeds, this 23<sup>rd</sup> day  
of July, 1996, at 10:30 o'clock A.M; and is duly  
recorded.

#1543791



Pat Kettler Register of Deeds  
Pat Kettler

Quillo Hernandez Deputy  
Ed Rami ANGLIS HERNANDEZ

State of Kansas)  
Sedgewick County) SS The foregoing instrument acknowledged be-  
fore me, this 6 day of March, 1996, by Terry L.  
Duncan, Member and Manager of T. K. Development, LLC, on behalf of  
the company.

My App't. Exp. B-16-99 Theresa Murphy Notary Public  
THERESA MURPHY

**THERESA MURPHY**  
Notary Public - State of Kansas  
Life, Love, Freedom

14-1-3-10

PC67-10

State of Kansas) SS The foregoing instrument acknowledged be-  
Sedgewick County) fore me, this 8 day of March, 1996, by Matthias F. Eck,  
President of B. & E. Investments, Inc., on behalf of the corporation.

My App't. Exp. 6-16-99

*Theresa Murphy* Notary Public  
THERESA MURPHY

6 THERESA MURPHY  
Notary Public - State of Tennessee  
My Comm. Expires

State of Kansas, )  
Sezgwick County, ) ss The foregoing instrument acknowledged be-  
fore me, this 8 day of March, 1996, by J. Kendall  
Dillehay, Member and Manager of T. K. Development, LLC, on behalf of  
the company.

My App't. Exp. 8-16-99 Theresa Murphy Notary Public  
THERESA MURPHY

**THERESA MURPHY**  
Notary Public - State of Kansas  
104 West Exchange

2007  
ck T-266