

Lat. 4, Main 3, N.W.I., (Formerly Lat. 452, S.W.I.)

SANITARY SEWER IMPROVEMENTS

to serve

WEST RIDGE ESTATES - PHASE II

CITY OF WICHITA, KANSAS

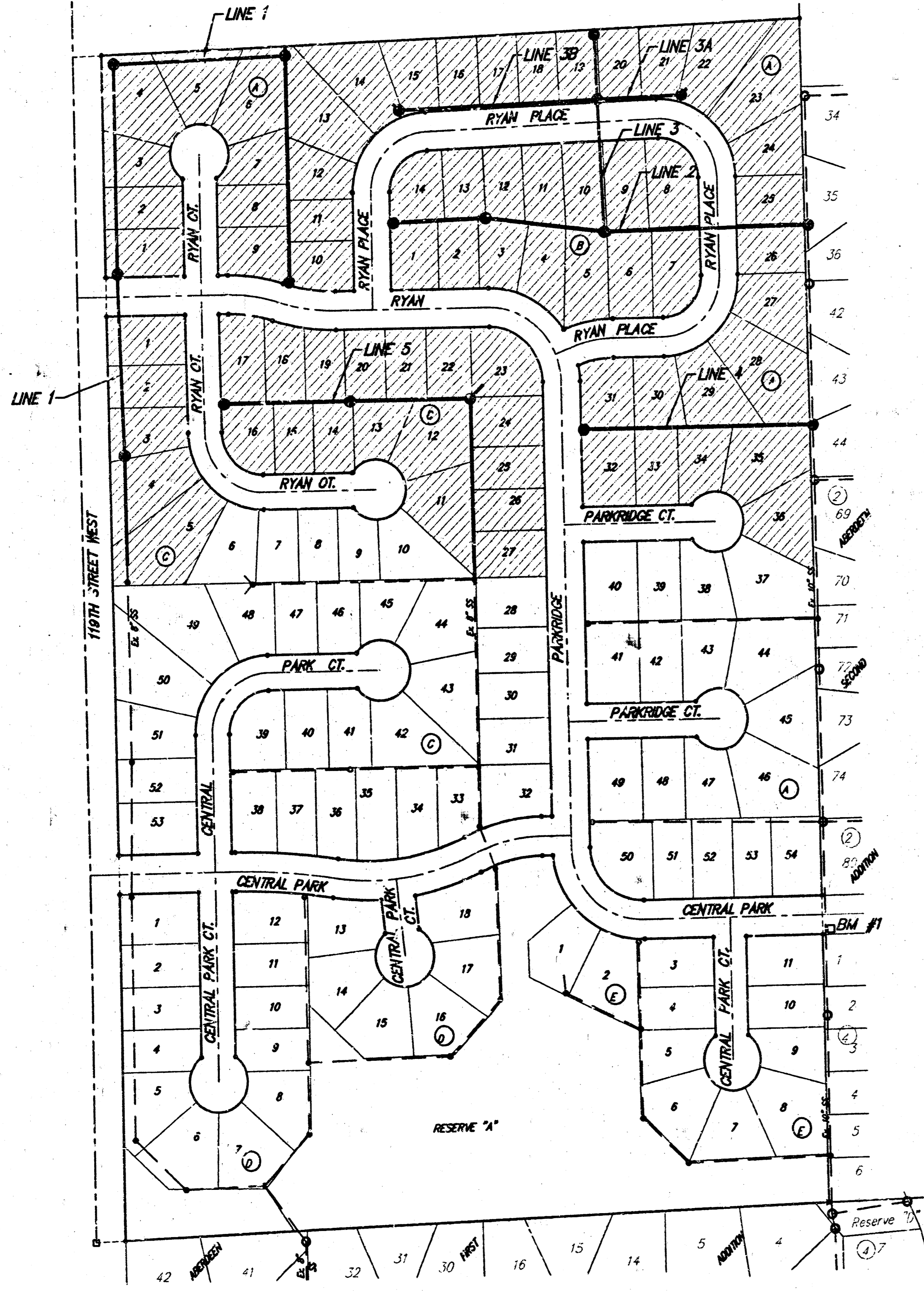
Michael E. Lindebak, P.E. City Engineer

Project Number

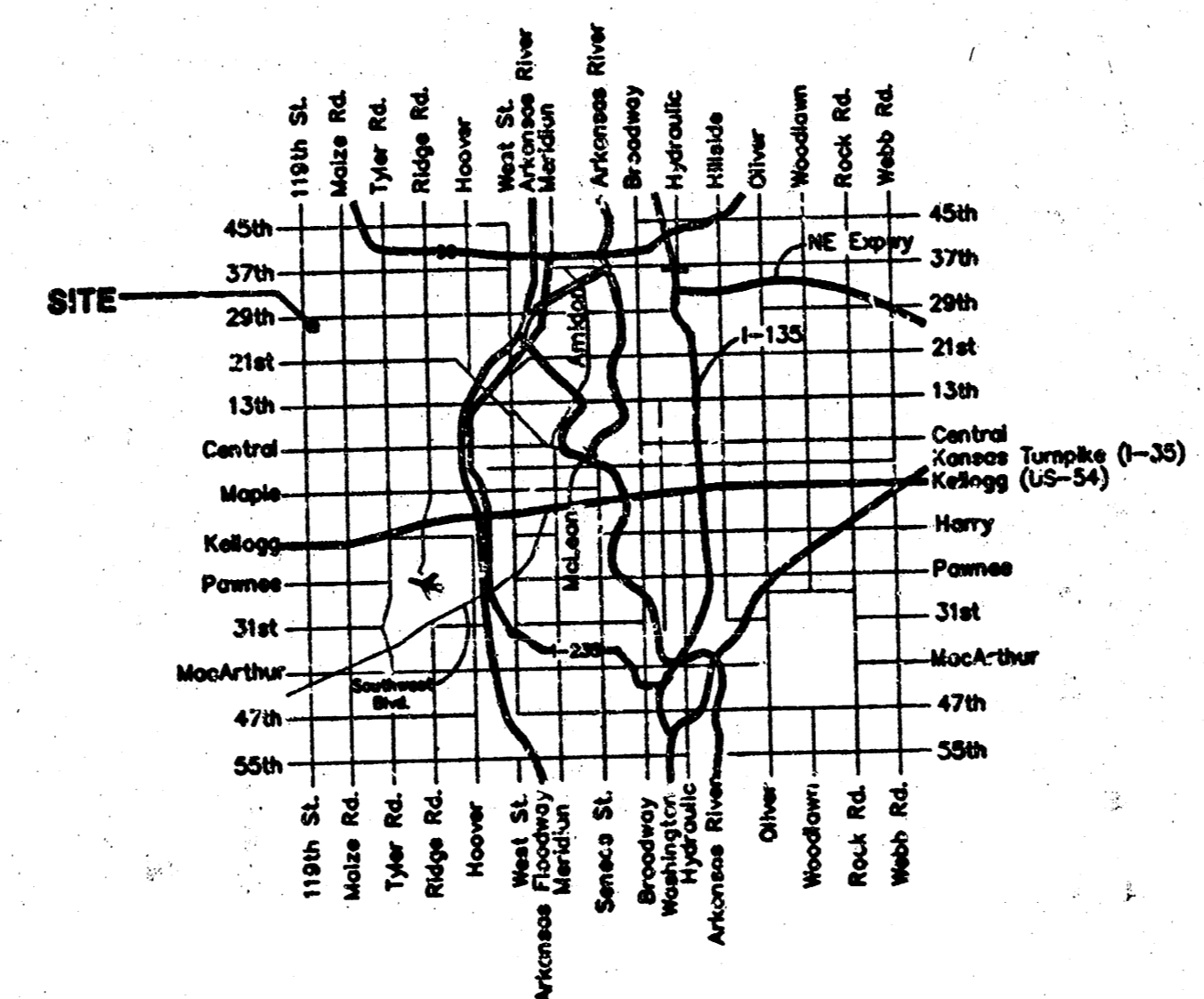
468-83103

O.C.A. Number

743880



Scale: 1" = 150'



Vicinity Map

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Benchmarks

"□" cut in top of curb on the south side of Central Park, 10' east of the east line of the plat. Elev. = 172.94

Booked
P-198
11/14/01
RDL
per plan

GENERAL NOTES:

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

Cox Communications	262-0651
K.P.L. Gas Service Company	383-8650
Kansas Gas & Electric Company	383-8600
Peoples Gas Company	944-8300
Southwestern Bell Telephone Company	1-800-344-7233
City of Wichita Water Dept.	268-4908
City of Wichita Traffic Engineering	269-4446
- 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 or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- 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.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be reestablished by a licensed land surveyor in accordance with state laws.
- Easements will be graded by others with the mass grading plan as part of the street improvements.
- When connecting to existing manhole or stub, the contractor shall reshape manhole bottom or adjust the existing stub's alignment or elevation as necessary. Cost shall be subsidiary to project.
- 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.
- Area will not be seeded with this project. Area will be seeded with the mass grading plan as part of the street improvements.

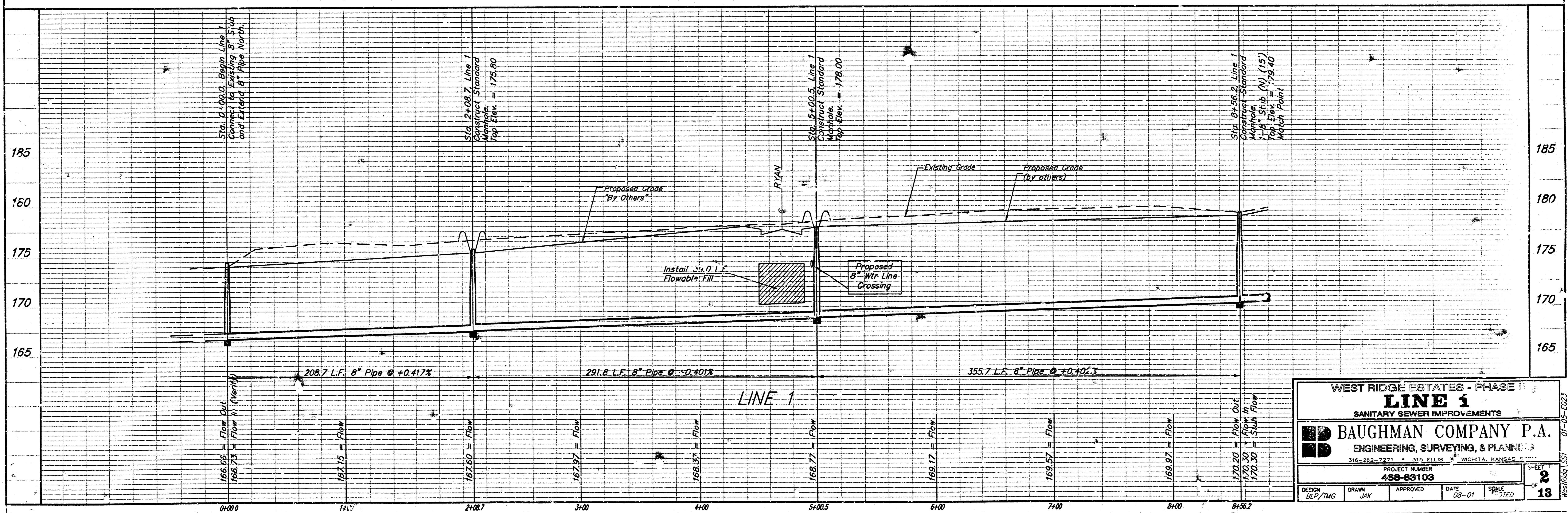
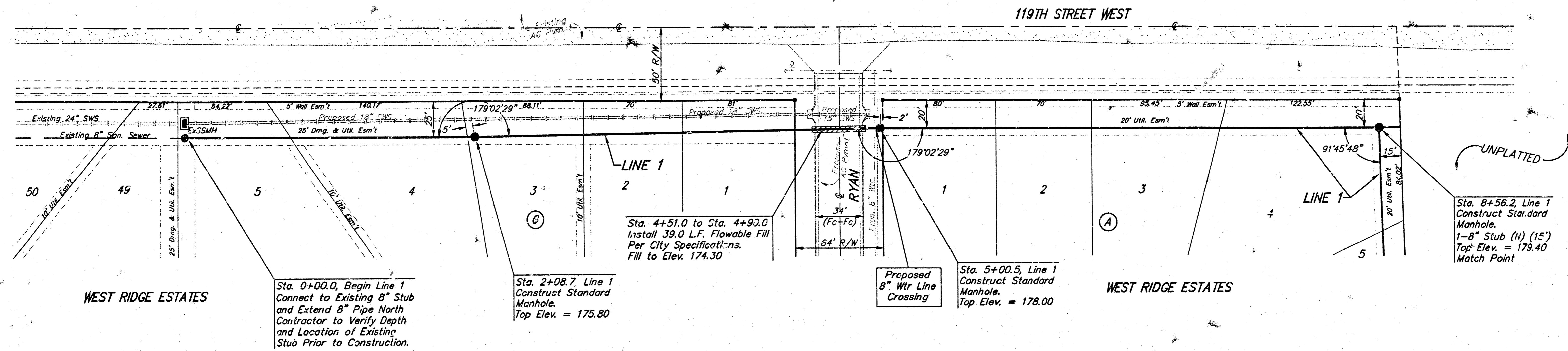
Benefit District



BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

BENCHMARK:
 □ cut in top of curb on the south side of Central Park, 10' east of the east line of the plat.
 Elev. = 172.94

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



WEST RIDGE ESTATES - PHASE 1
LINE 1
 SANITARY SEWER IMPROVEMENTS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING
 315-262-2221 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER
468-83103

DESIGN: BLP/TMG DRAWN: JAK APPROVED: [Signature] DATE: 08-01 SCALE: AS SHOWN

SHEET
2
 OF
18

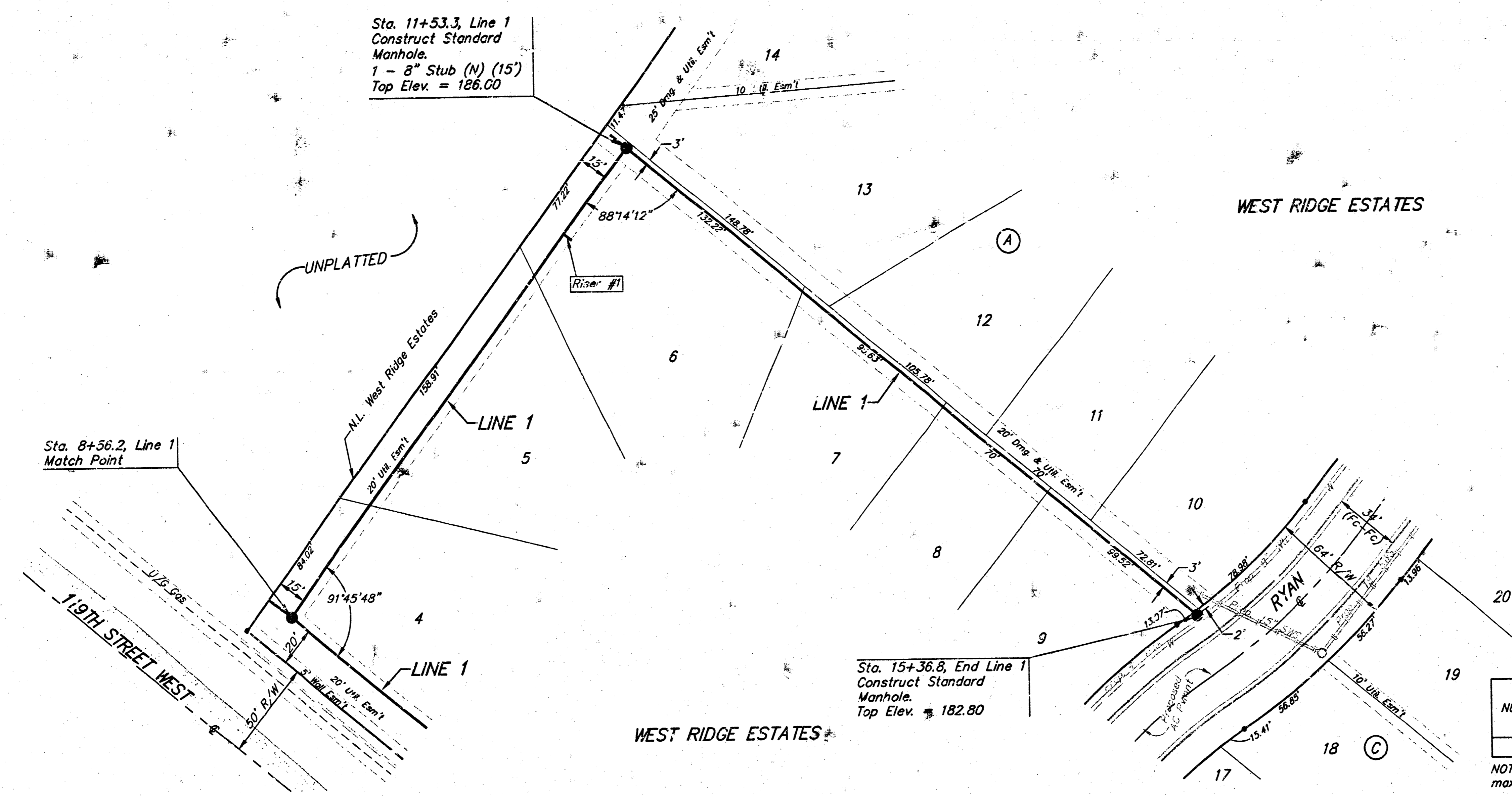
BENCHMARK:
 "□" cut in top of curb on the south side of Central Park, 10' east of the east line of the plat. Elev. = 172.94

Sta. 11+53.3, Line 1
 Construct Standard Manhole.
 1 - 8" Stub (N) (15')
 Top Elev. = 186.00

Sta. 8+56.2, Line 1
 Match Point

Sta. 15+36.8, End Line 1
 Construct Standard Manhole.
 Top Elev. = 182.80

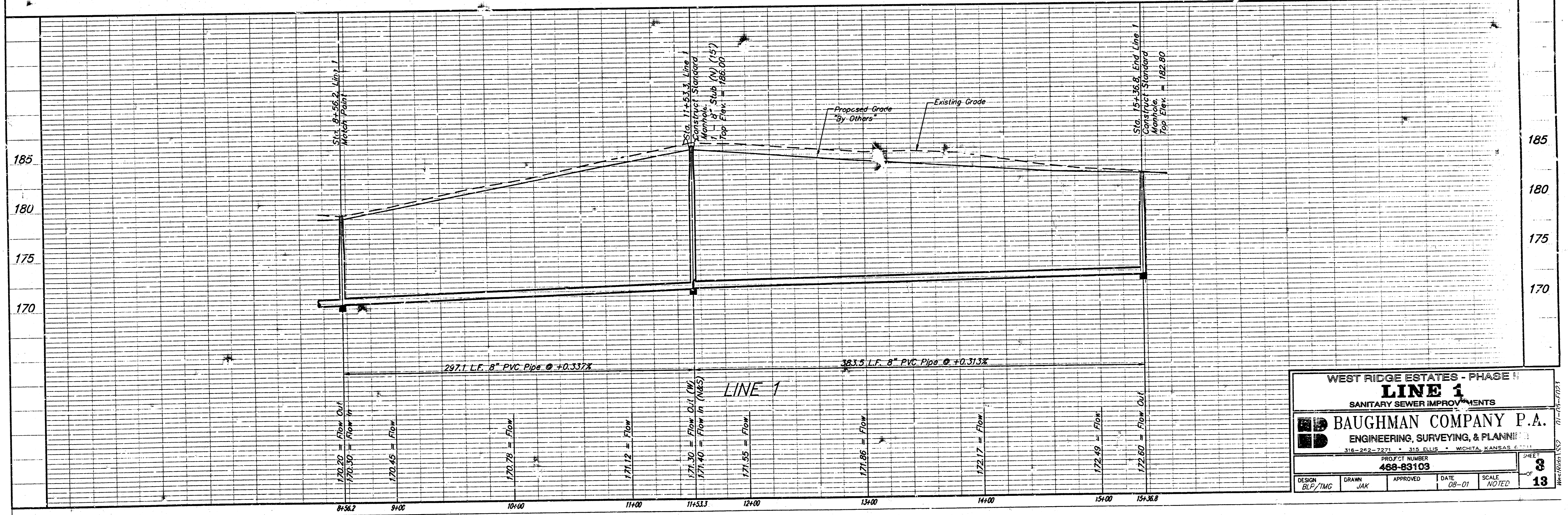
SCALE:
 1" = 40' HORIZONTAL
 1" = 5' VERTICAL
 • = IRON



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	
						VERTICAL	HORIZONTAL
1	8" X 4" Tee Saddle	6	A	1	10+98/RT.	9.5'	5'

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



WEST RIDGE ESTATES - PHASE II
LINE 1
 SANITARY SEWER IMPROVEMENTS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING

316-242-7271 • 316 ELLIS • WICHITA, KANSAS 67201

PROJECT NUMBER: **468-83103**

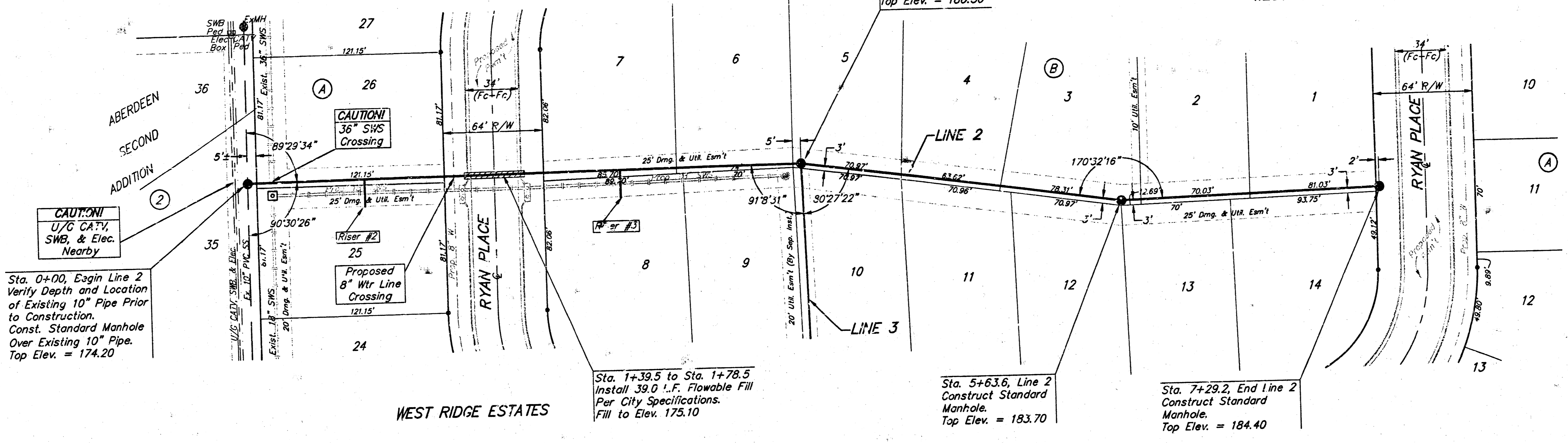
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SHEET **3** OF **13**

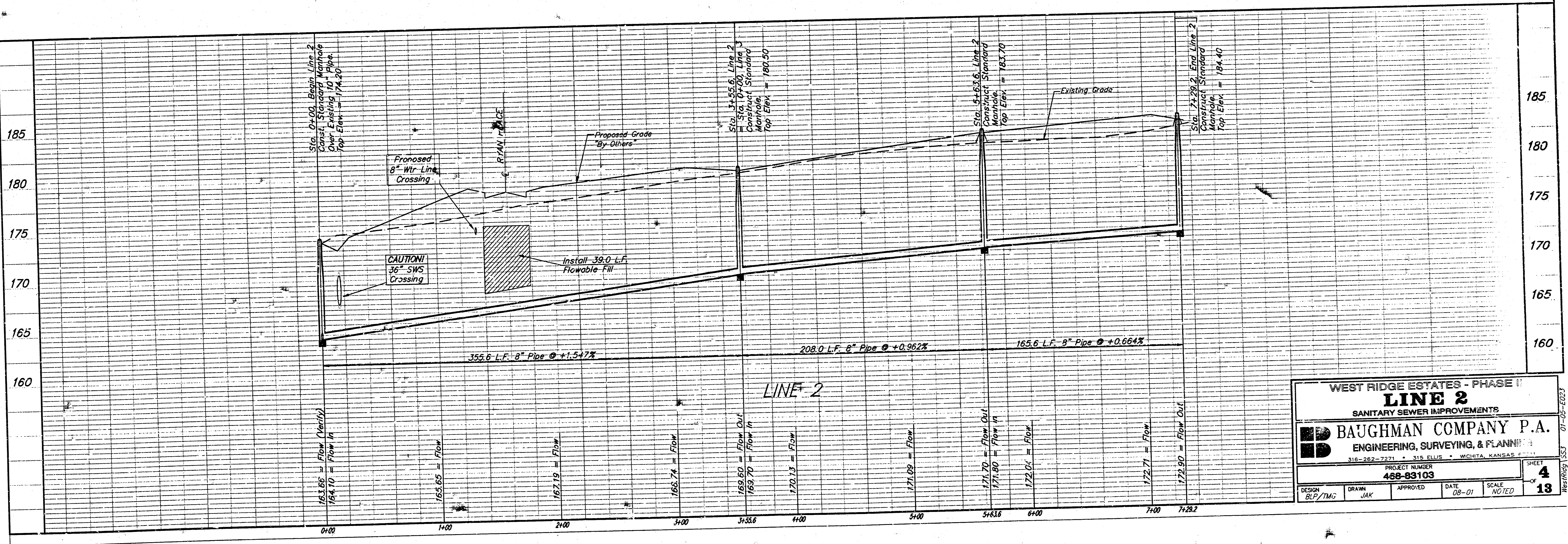
BENCHMARK:
 "□" cut in top of curb on the south side of Central Park, 10' east of the east line of the plat. Elev. = 172.94

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE
2	8" X 4" Tee Saddle	25	A	2	0+76.0/Rt.	7.0'
3	8" X 4" Tee Saddle	8	B	2	2+40.0/Rt.	7.0'

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



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

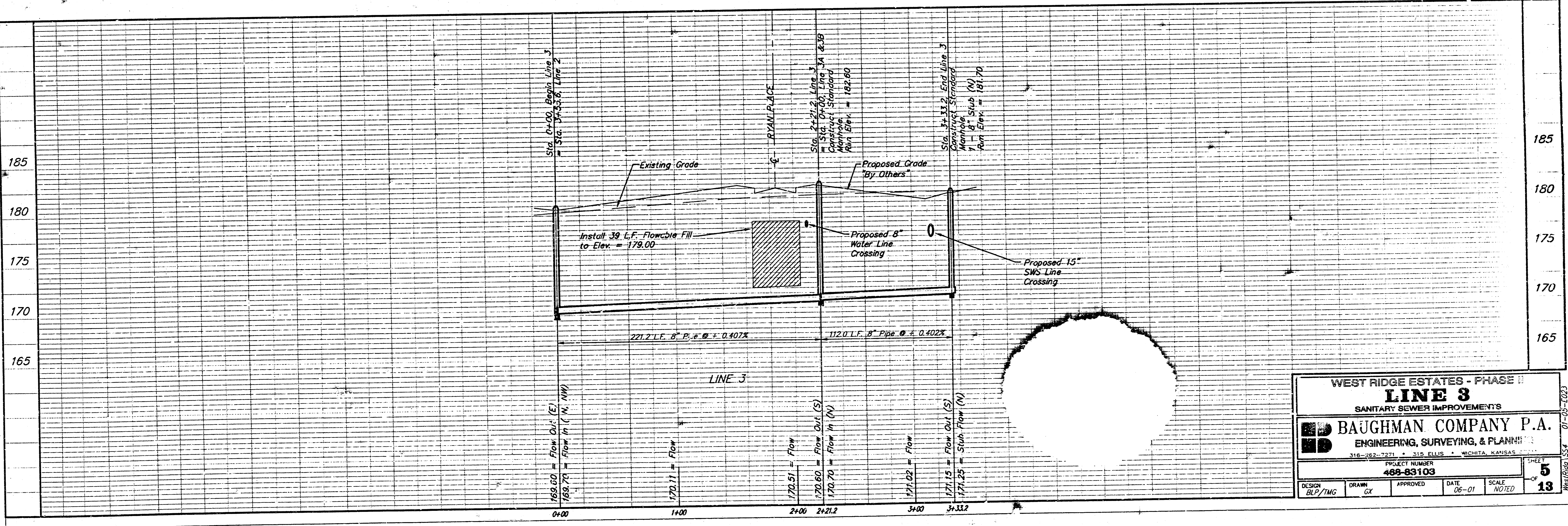
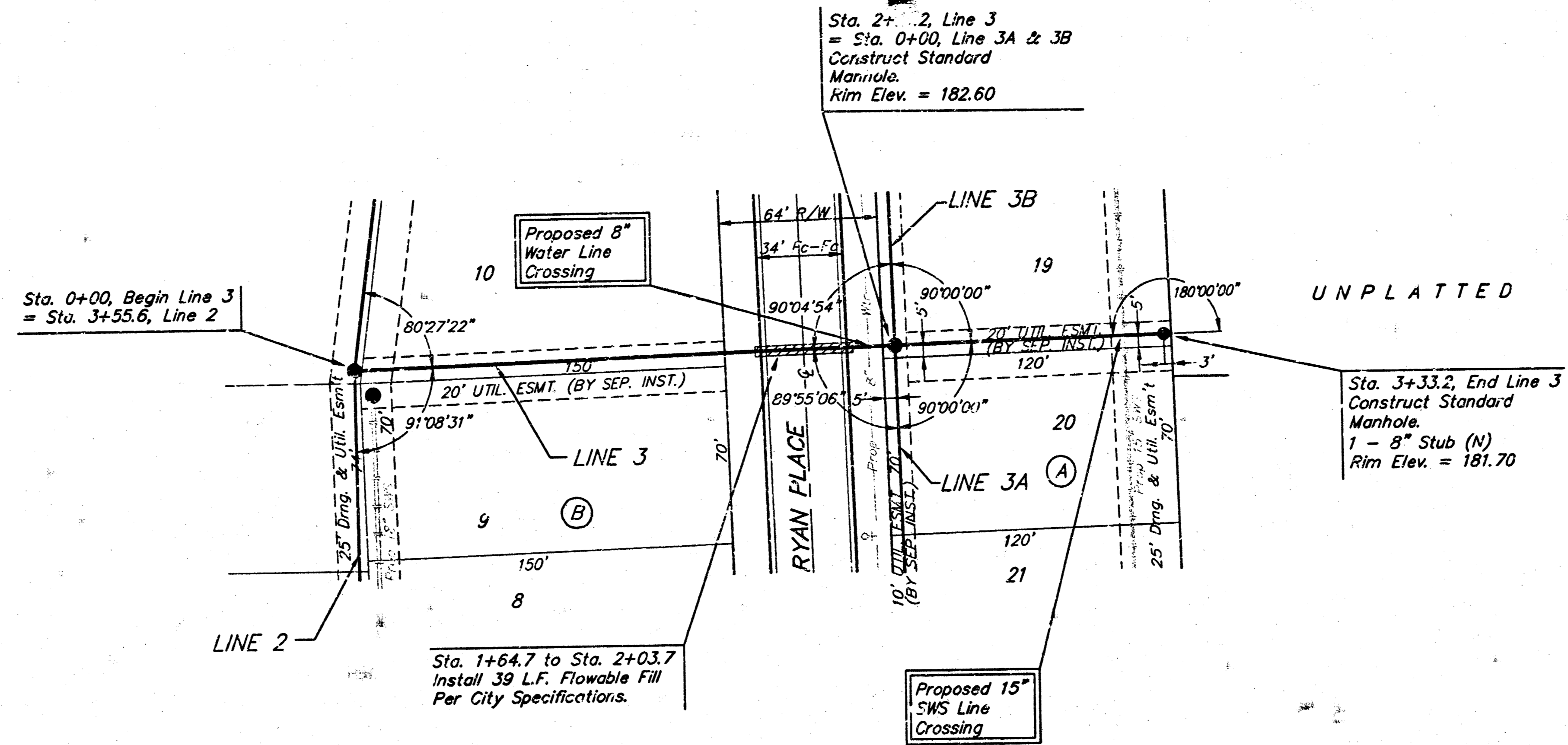


WEST RIDGE ESTATES - PHASE II
LINE 2
 SANITARY SEWER IMPROVEMENTS
BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING
 316-282-7271 • 315 ELLIS • WICHITA, KANSAS
 PROJECT NUMBER: 488-93103
 SHEET: 4 OF 13
 DESIGN: BLP/TMG DRAWN: JAK APPROVED: DATE: 08-01 SCALE: NOTED

BENCHMARK:
 "□" cut in top of curb on the south side of Central Park, 10' east of the east line of the plat. Elev. = 172.94

WEST RIDGE ESTATES

Scale: 1" = 40' Horizontal
 1" = 5' Vertical
 • = Iron



WEST RIDGE ESTATES - PHASE II
LINE 3
 SANITARY SEWER IMPROVEMENTS

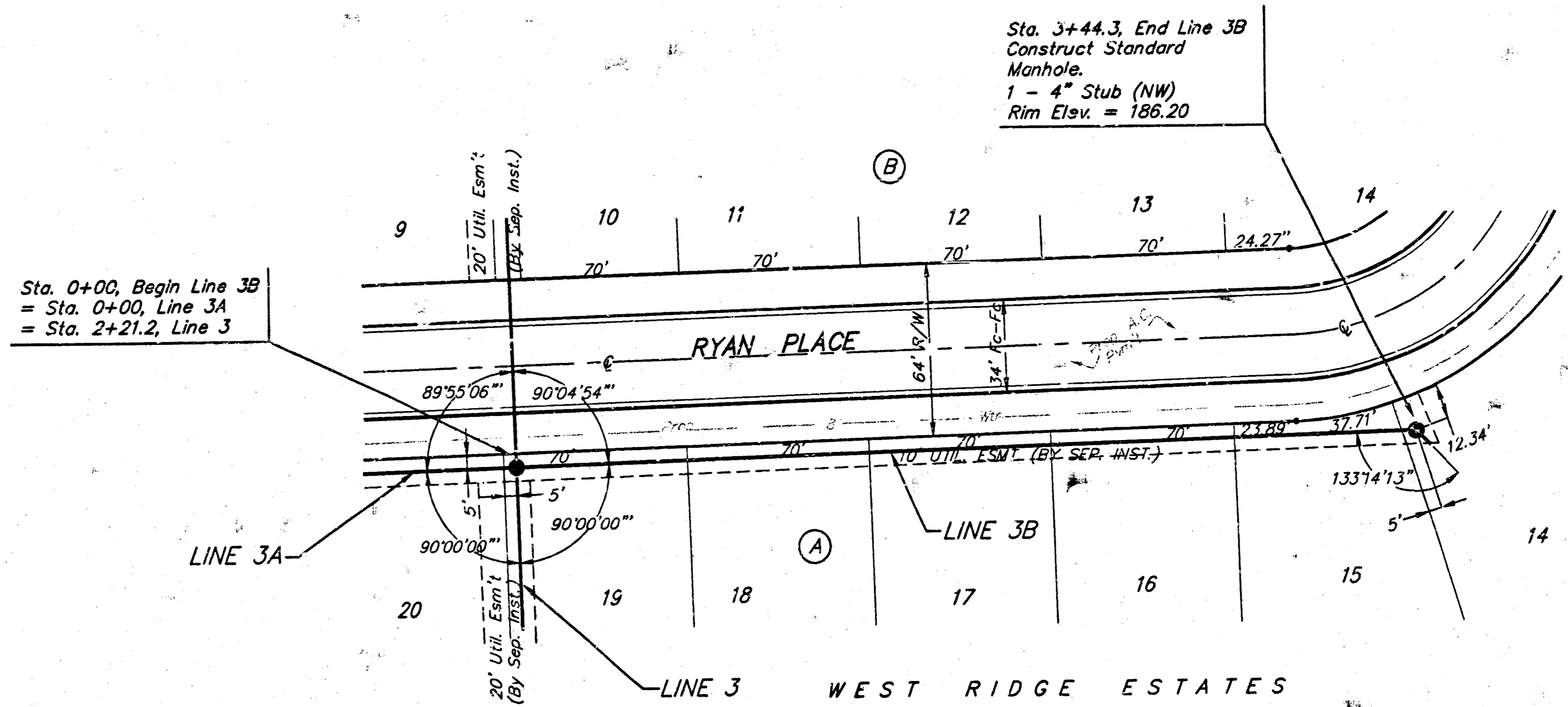
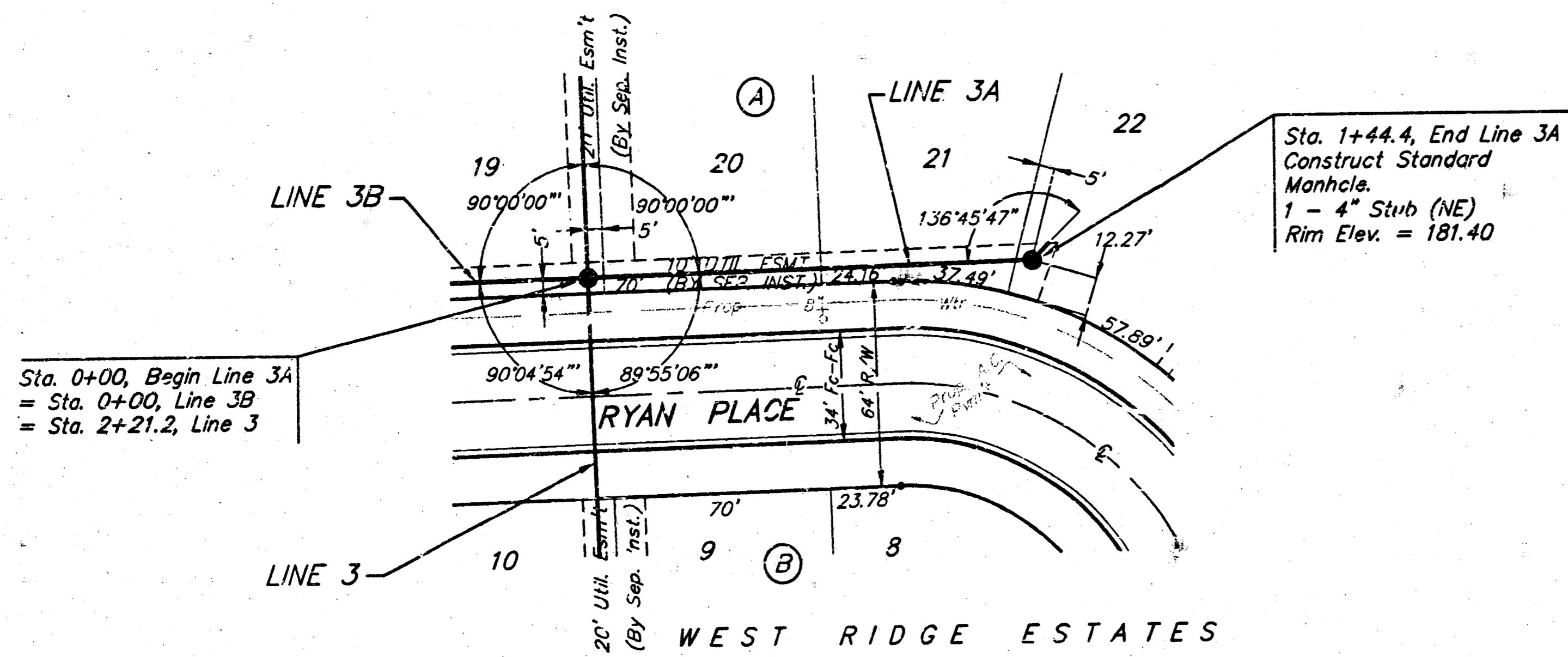
BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING

318-262-7271 • 318 ELLIS • WICHITA, KANSAS

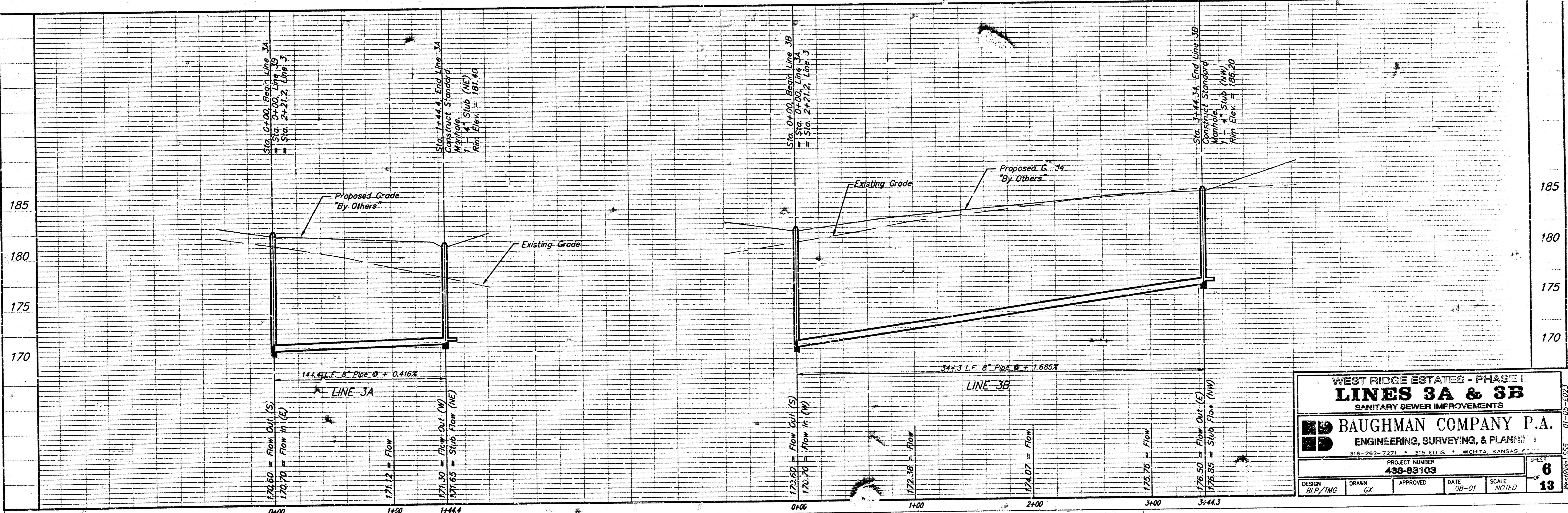
PROJECT NUMBER
468-83103

DESIGN: BLP/TMG DRAWN: GX APPROVED: DATE: 06-01 SCALE: NOTED SHEET: **5** OF **13**

BENCHMARK:
 □ cut in top of curb on the south side of Central Park, 10' east of the east line of the plat.
 Elev. = 172.94



Scale: 1" = 40' Horizontal
 1" = 5' Vertical
 = Iron



WEST RIDGE ESTATES - PHASE I
LINES 3A & 3B
 SANITARY SEWER IMPROVEMENTS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING

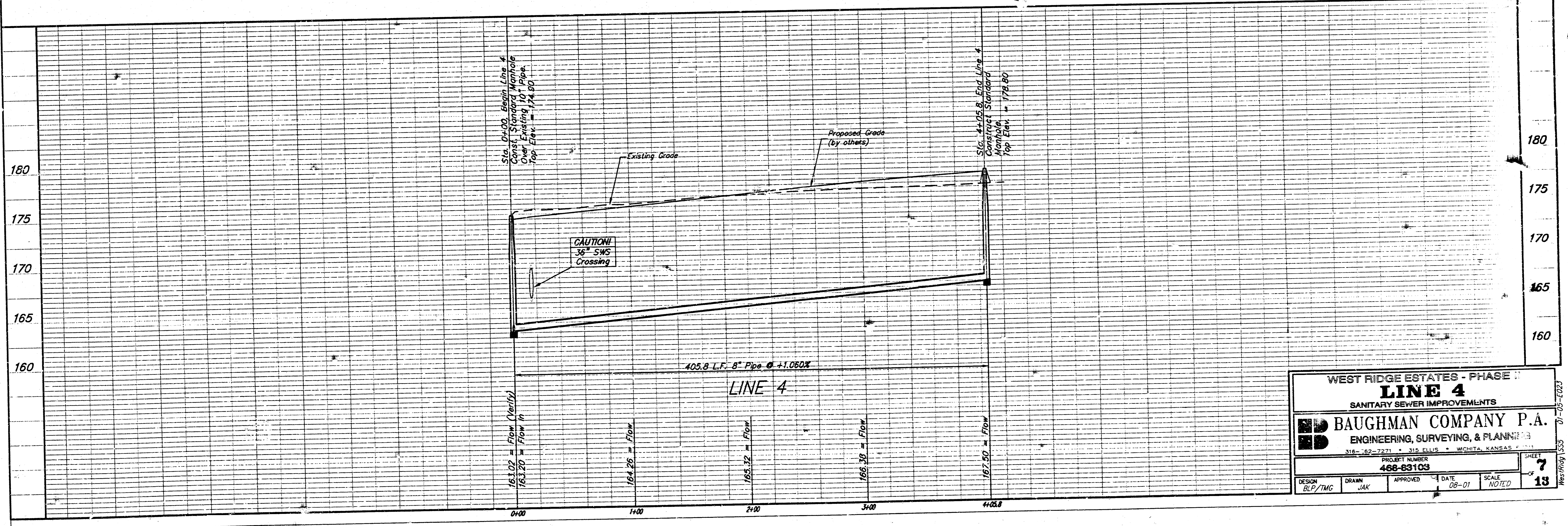
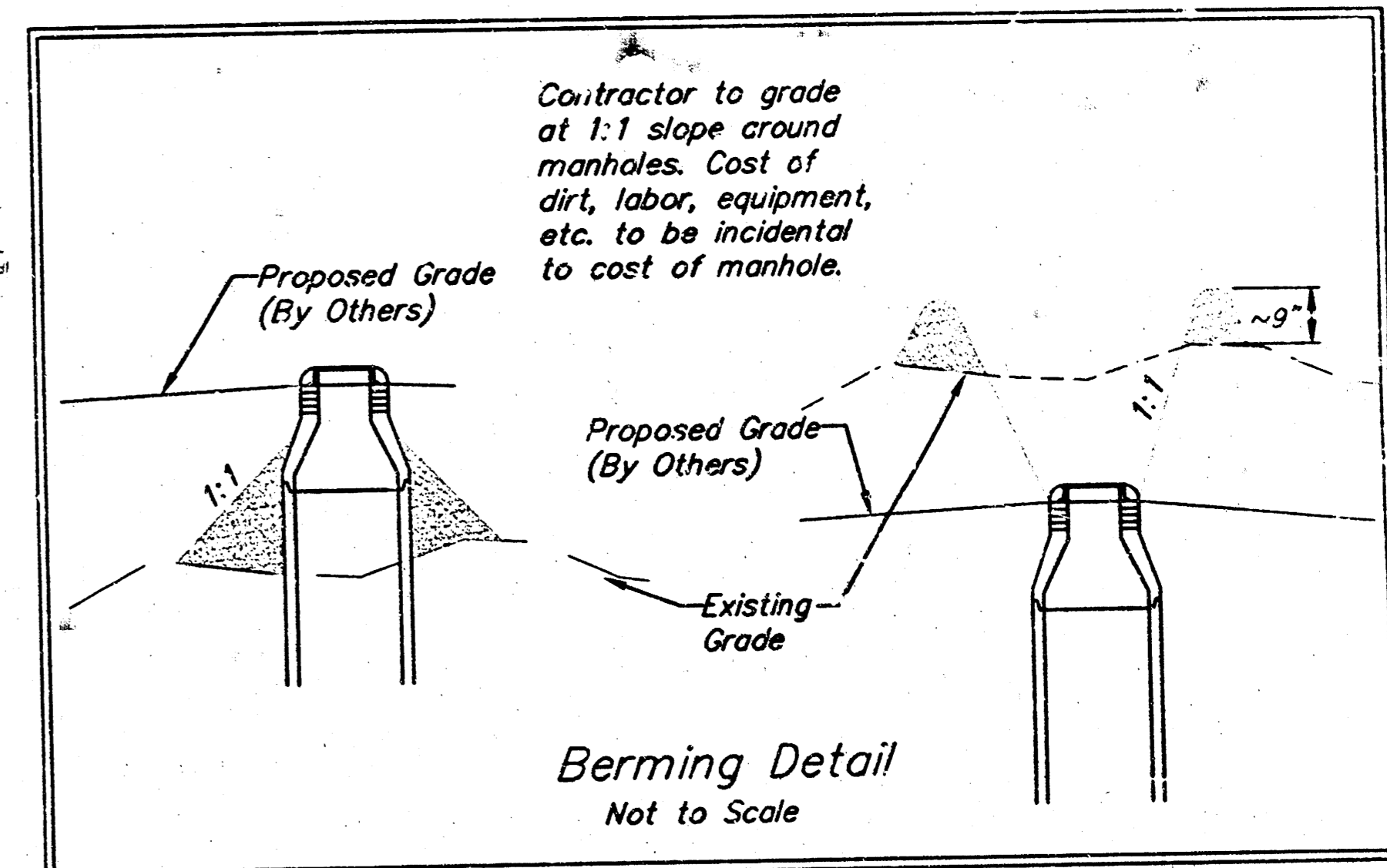
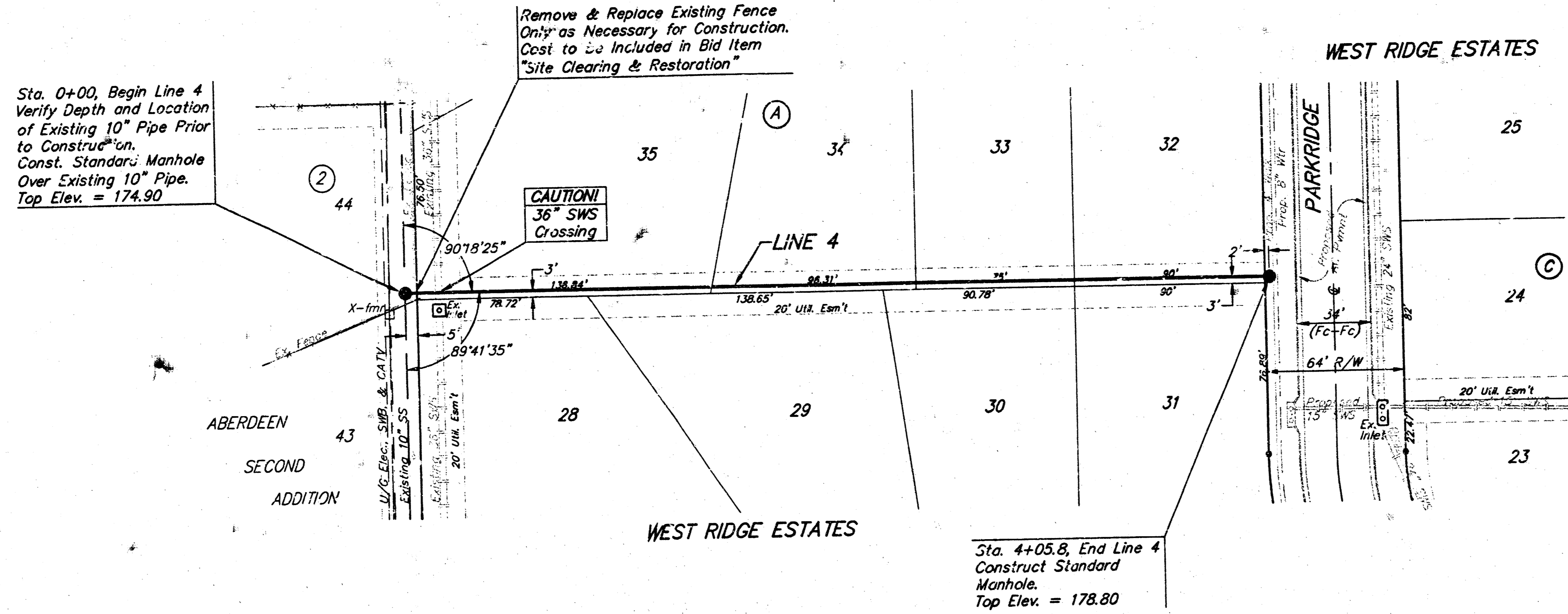
316-262-7271 • 315 ELLIS • WICHITA, KANSAS

PROJECT NUMBER
488-83103

DESIGN: BLP/TMG
 DRAWN: CX
 APPROVED: [Signature]
 DATE: 08-01
 SCALE: NOTED

SHEET
6
 OF
13

BENCHMARK:
 □ cut in top of curb on the south side of Central Park, 10' east of the east line of the plat. Elev. = 172.94



WEST RIDGE ESTATES - PHASE I
LINE 4
 SANITARY SEWER IMPROVEMENTS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING

316-782-7271 • 315 ELLIS • WICHITA, KANSAS

PROJECT NUMBER: 468-83103

DESIGN: BLP/TMG	DRAWN: JAK	APPROVED:	DATE: 08-01	SCALE: NOTED	SHEET: 7 OF 13
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BENCHMARK:
 □ cut in top of curb on the south side of Central Park, 10' east of the east line of the plat. Elev. = 172.94

WEST RIDGE ESTATES

Sta. 0+00.0, Begin Line 5
 Connect to Existing 8" Stub and Extend 8" Pipe North Contractor to Verify Depth and Location of Existing Stub Prior to Construction.

CAUTION!
 Ex. 18" SWS Crossing

Sta. 2+98.0, Line 5
 Construct Standard Manhole. 1-4" Long Stub(NE)(25') Top Elev. = 178.00

Sta. 7+32.5, End Line 5
 Construct Standard Manhole. Top Elev. = 181.00

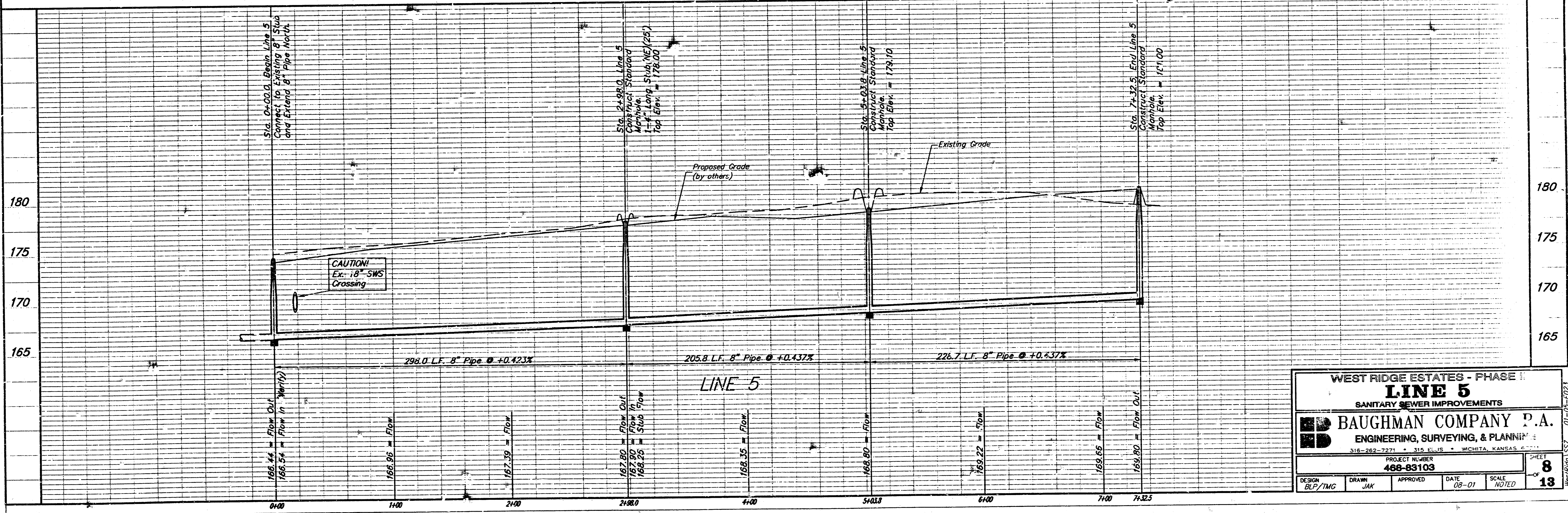
Sta. 5+03.8 Line 5
 Construct Standard Manhole. Top Elev. = 179.10

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
4	8" X 4" Tee Saddle	22	C	5	3+42.0/RL	6.0' 13'
5	8" X 4" Tee Saddle	21	C	5	4+12.0/RL	6.0' 13'

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



WEST RIDGE ESTATES - PHASE 1
LINE 5
 SANITARY SEWER IMPROVEMENTS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING

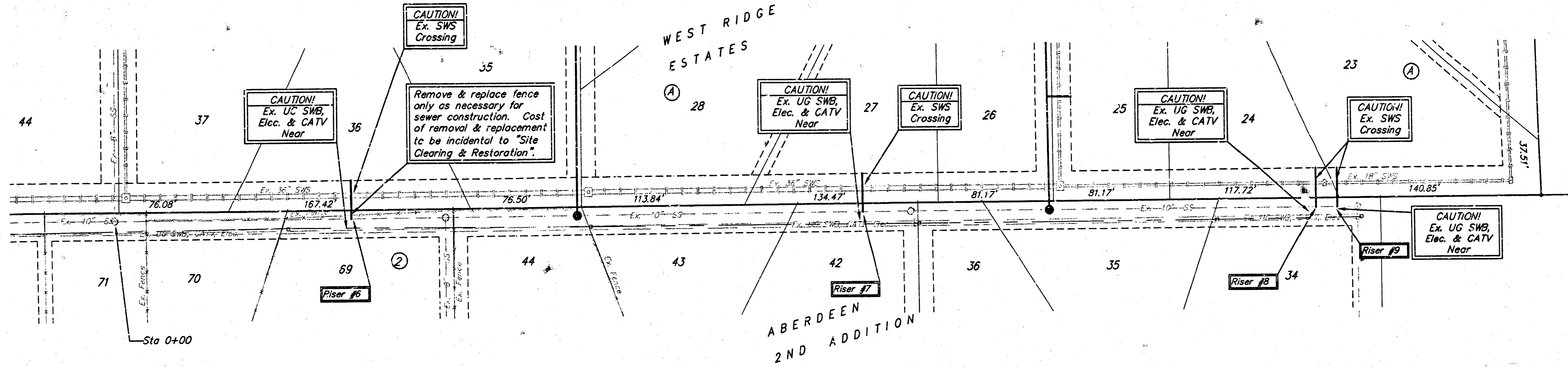
316-262-7271 • 315 E. LIS • WICHITA, KANSAS 67202

PROJECT NUMBER
488-85103

DESIGN: BLP/TMG DRAWN: JAK APPROVED: DATE: 03-01 SCALE: NOTED SHEET: **8** OF **13**

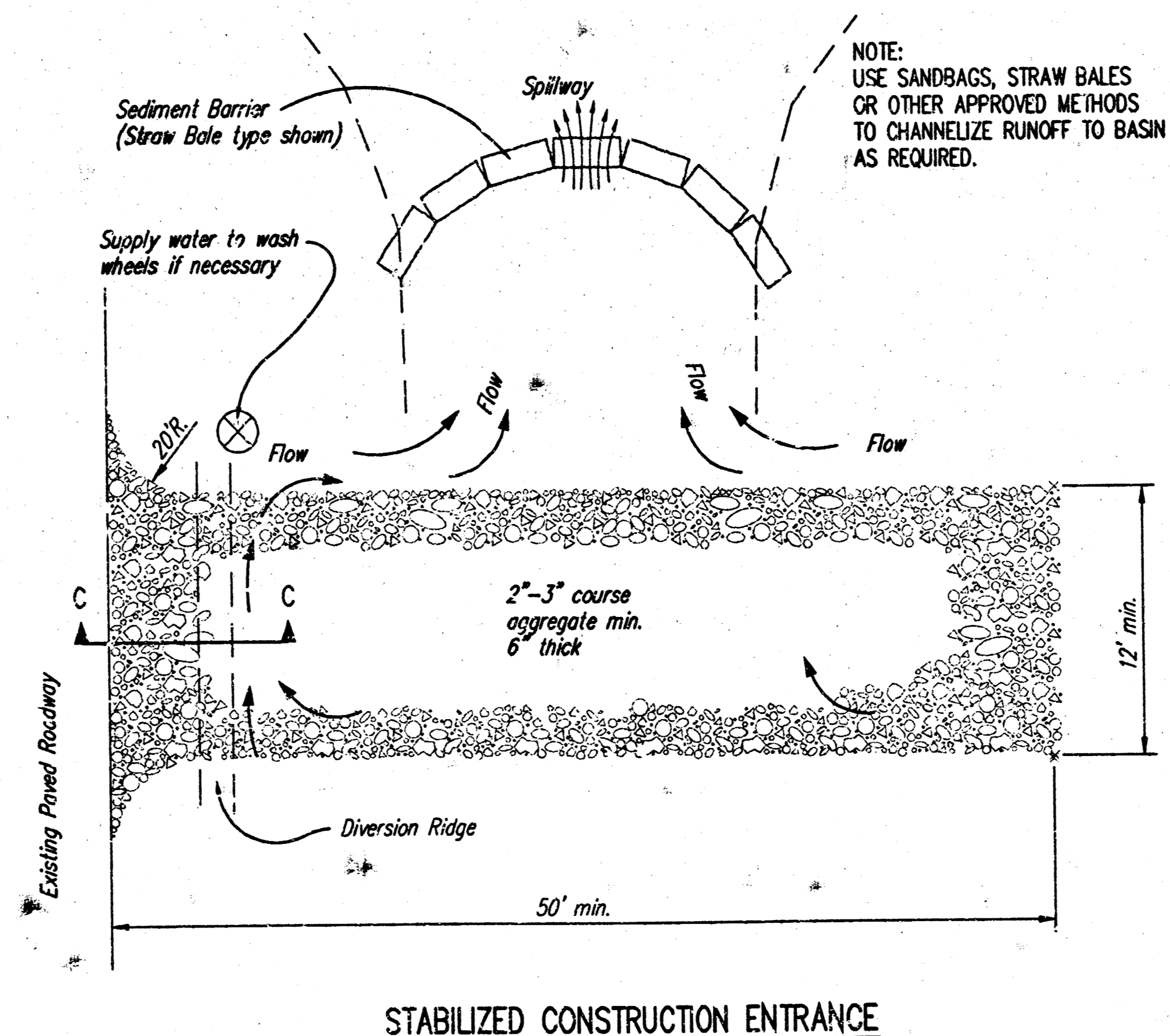
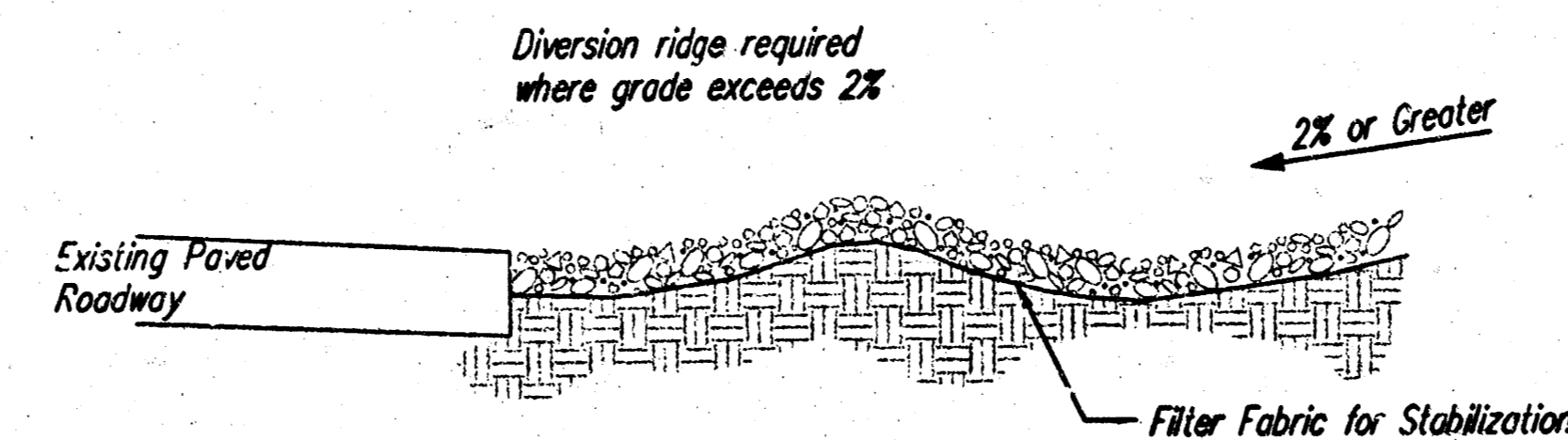
BENCHMARK:
 □ cut in top of curb on the south side of Central Park, 10' east of the east edge of the plot.
 Elev. = 172.94

Scale: 1" = 40'
 = Iron



The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

NOTE: If fence, sprinkler, tree, etc. is removed during construction, they shall be replaced to original condition. If such items are damaged during removal/replacement, contractor shall supply & install equivalent material at no additional cost to project.



- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
 4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LCT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	
6	8" X 4" Tee Saddle	36	A	N/A	1+63.5/Lt.	8.0'	26'
7	8" X 4" Tee Saddle	27	A	N/A	5+18.0/Lt.	7.5'	26'
8	8" X 4" Tee Saddle	24	A	N/A	8+35.0/Lt.	6.0'	26'
9	8" X 4" Tee Saddle	23	A	N/A	8+50.0/Lt.	6.0'	26'

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

FOR INFORMATION ONLY
 1. SEE SHEET 13 FOR CONSTRUCTION DETAILS
 2. SEE SHEET 13 FOR AS-BUILT DATA
 3. SEE SHEET 13 FOR TYPICAL CROSS SECTION

WEST RIDGE ESTATES
RISERS FOR EX. 10" SS
 SANITARY SEWER IMPROVEMENTS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING

316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER
488-63103

DESIGN: BT/TMG DRAWN: TMG APPROVED: DATE: 08-01 SCALE: Noted

SHEET **9** OF **13**

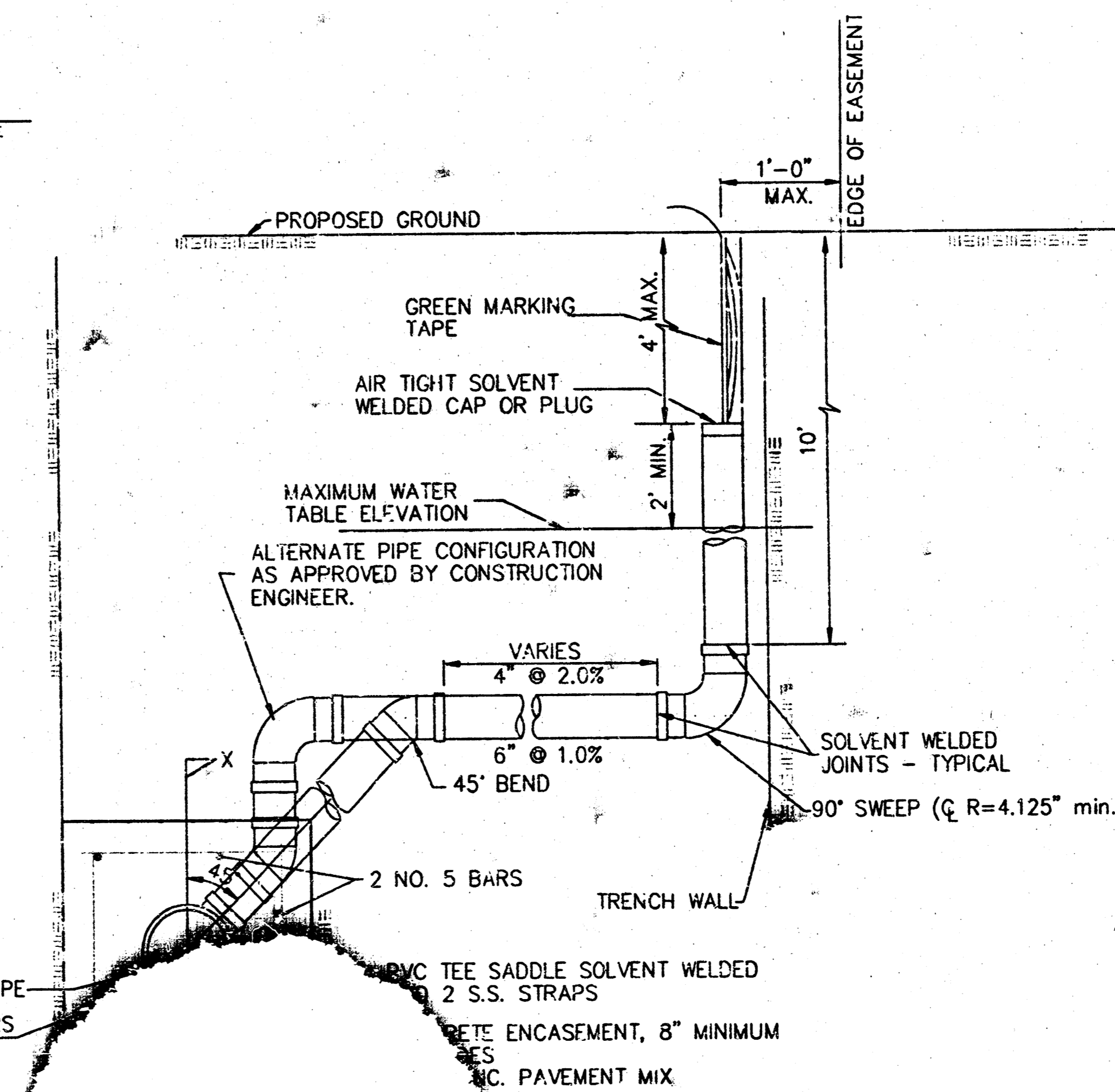
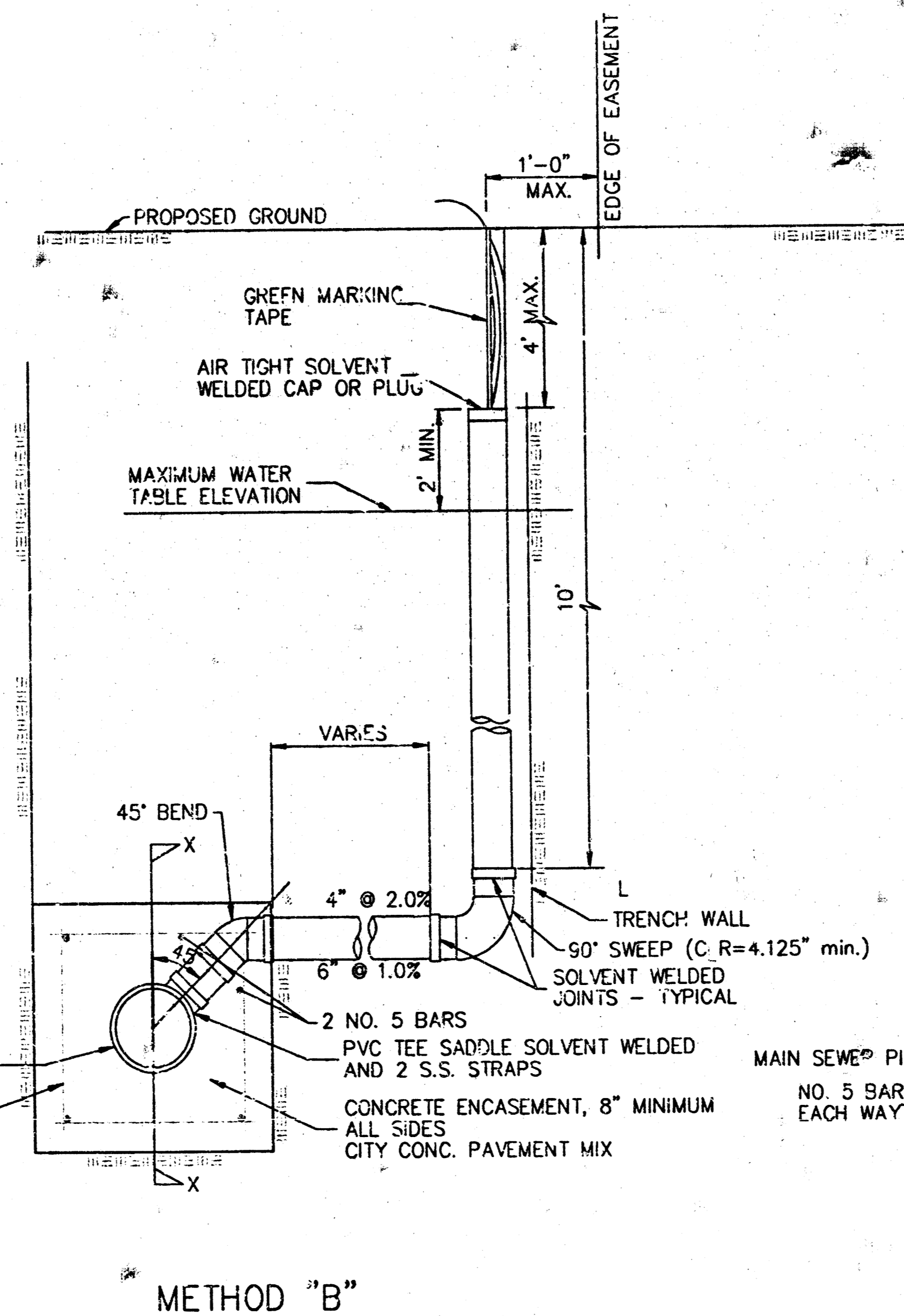
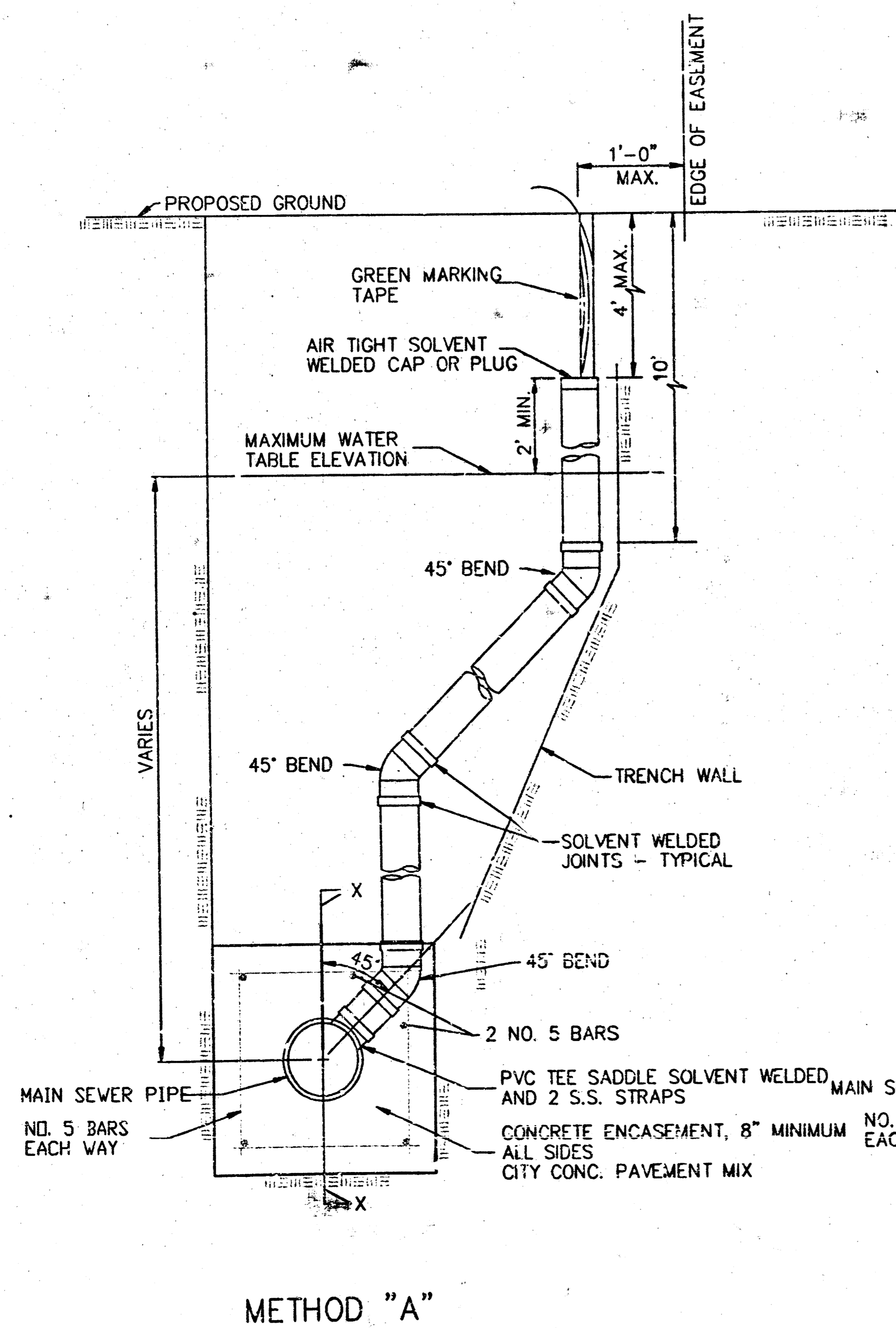
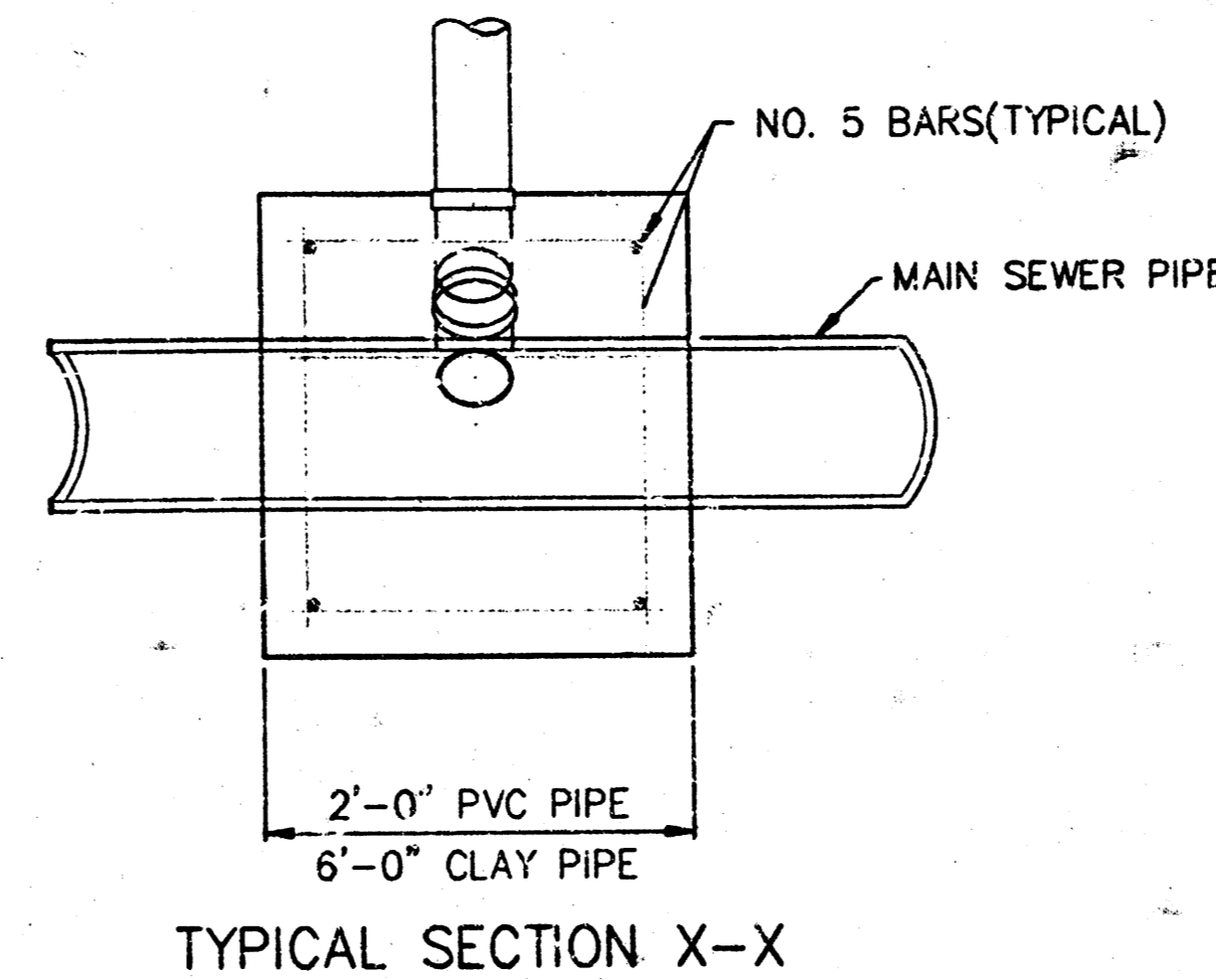
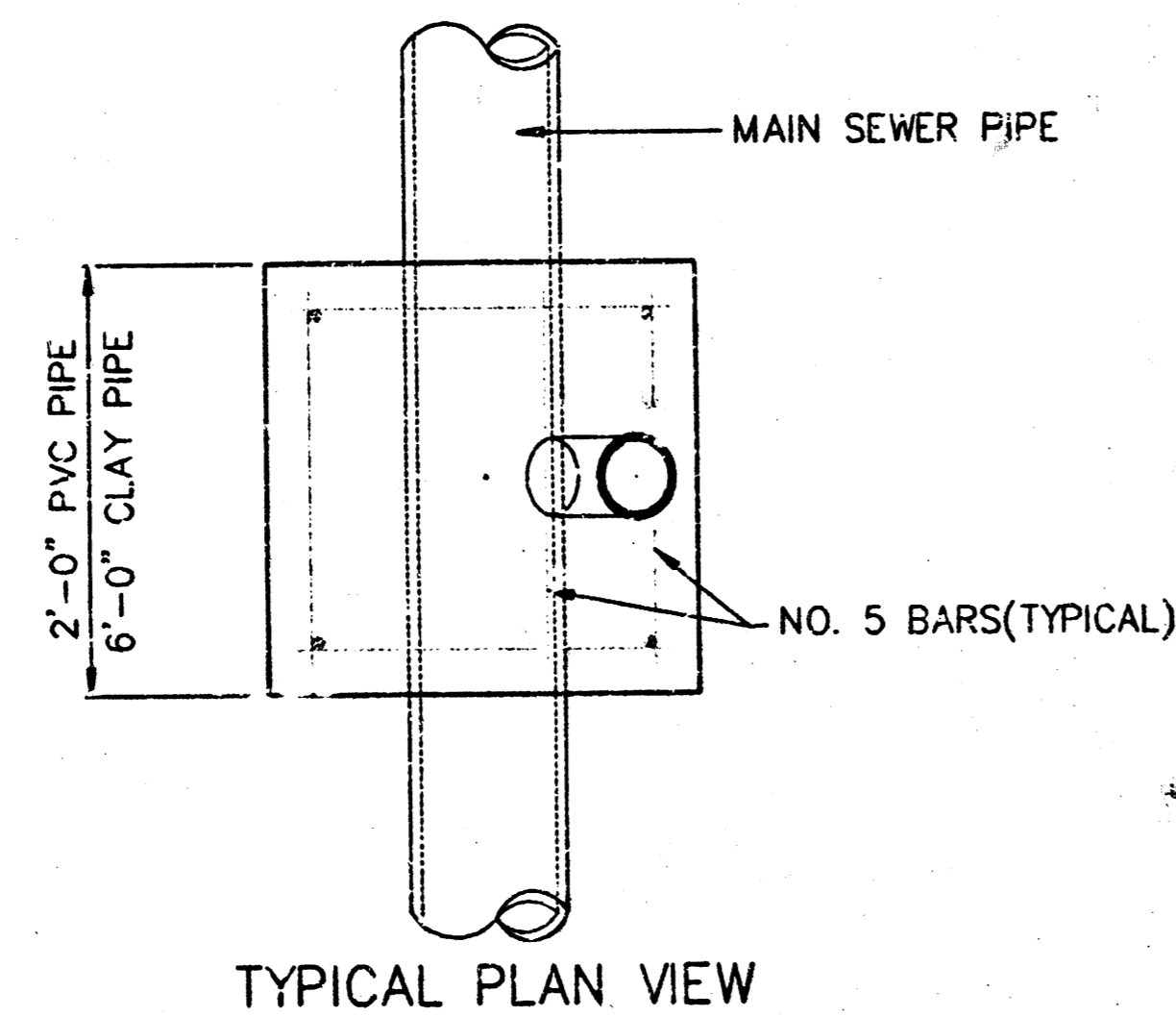
VERTICAL RISER DETAILS

ADOPTED AS STANDARD DESIGN

BY

CITY OF WICHITA, KANSAS

OCTOBER 1992



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

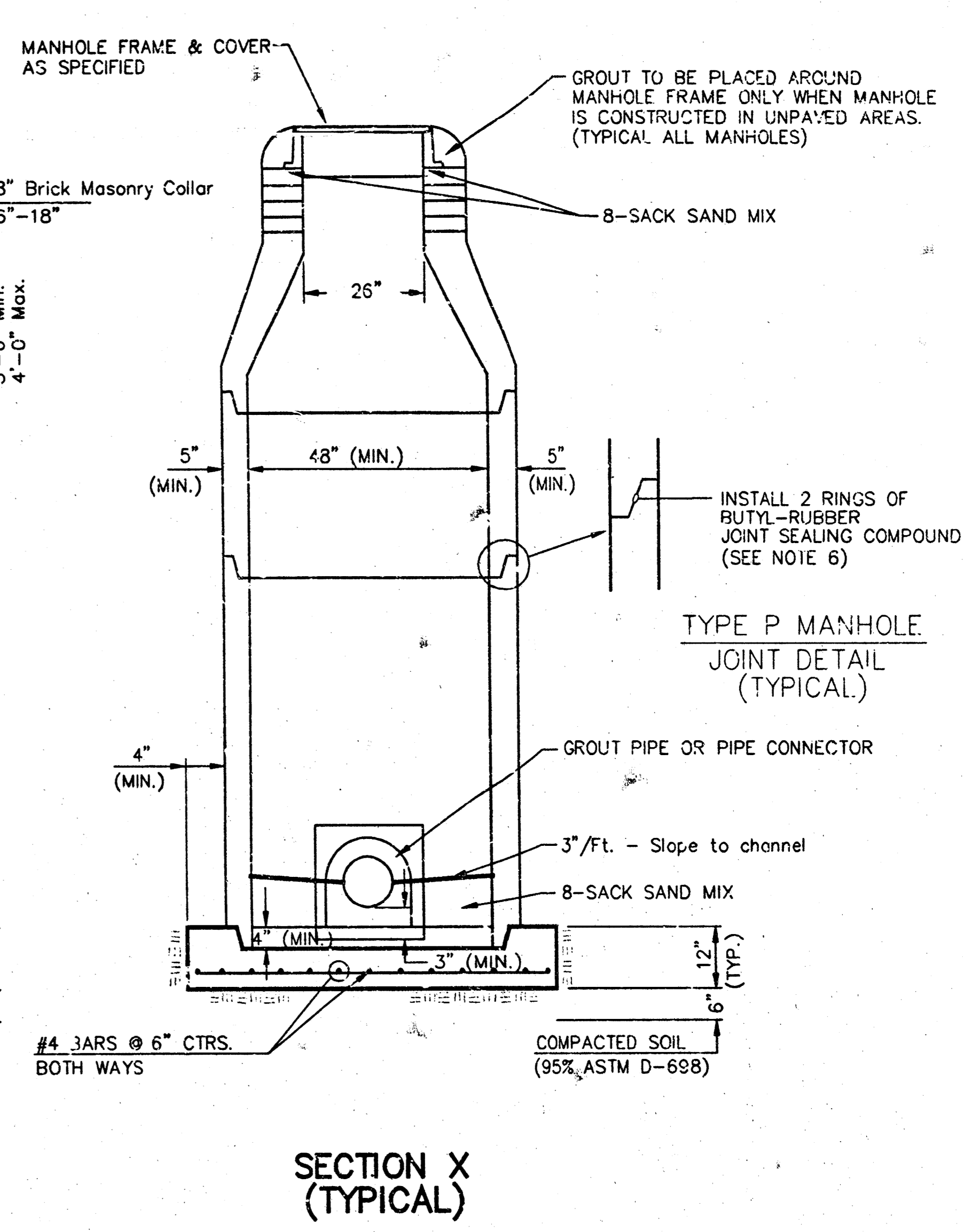
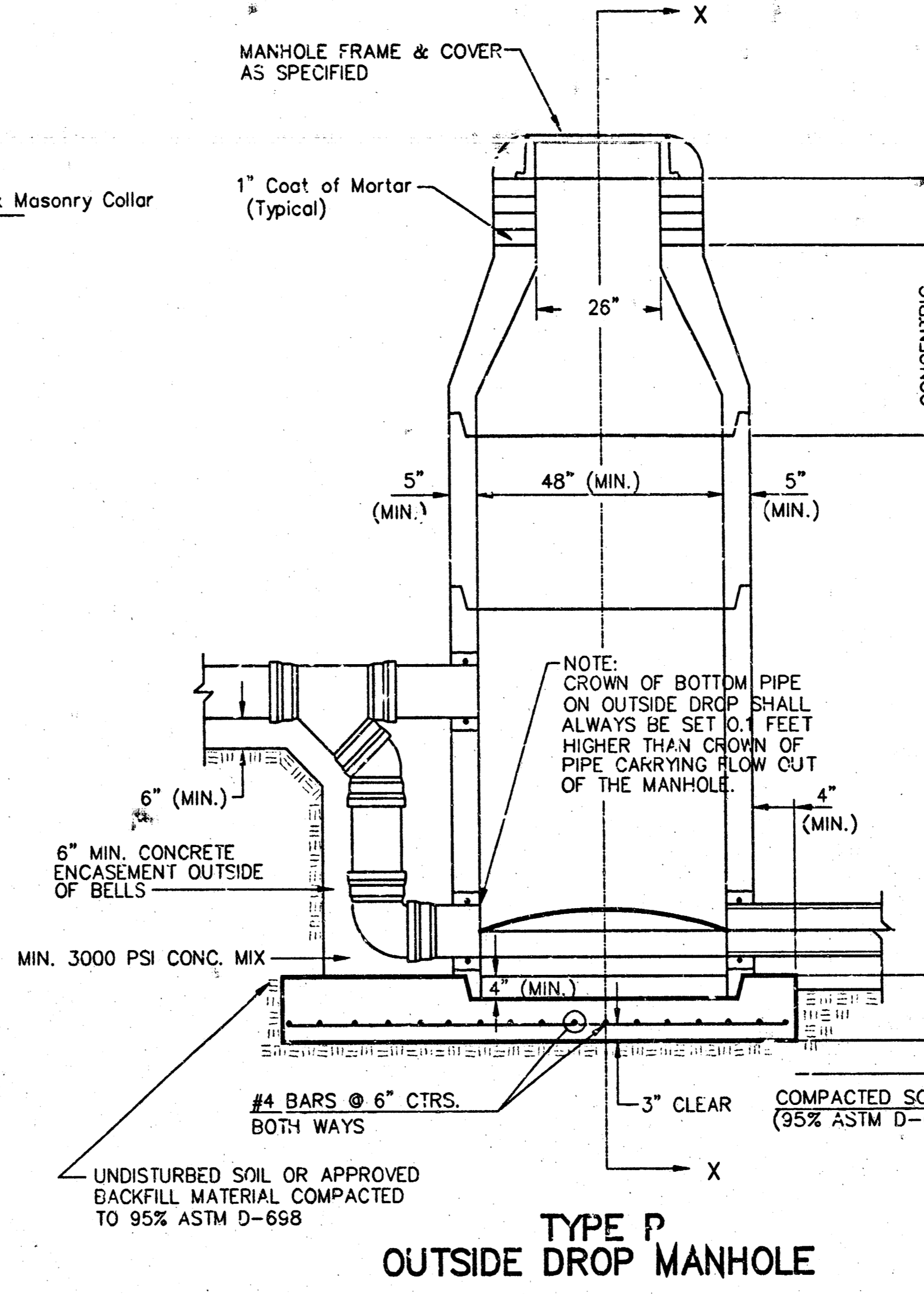
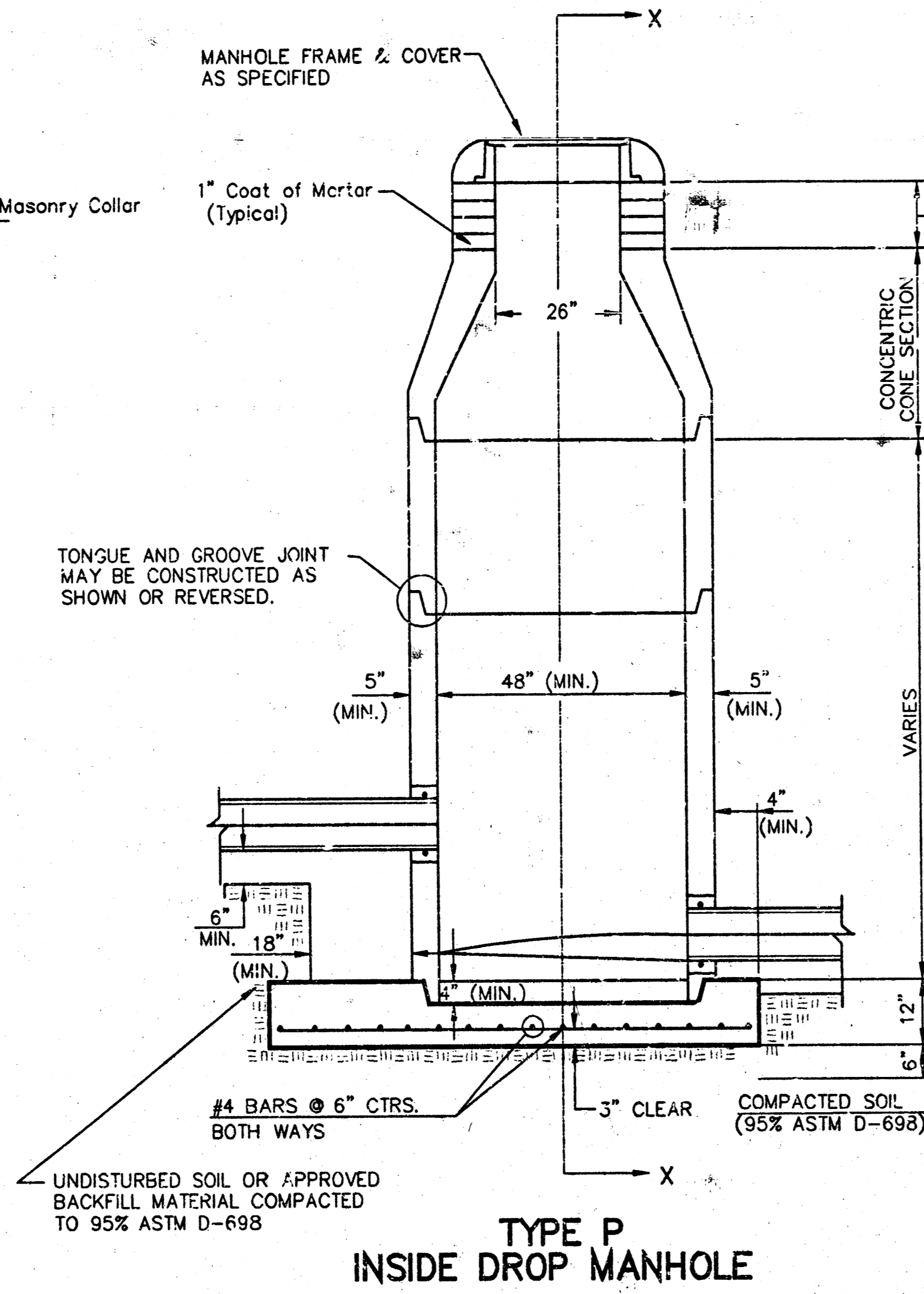
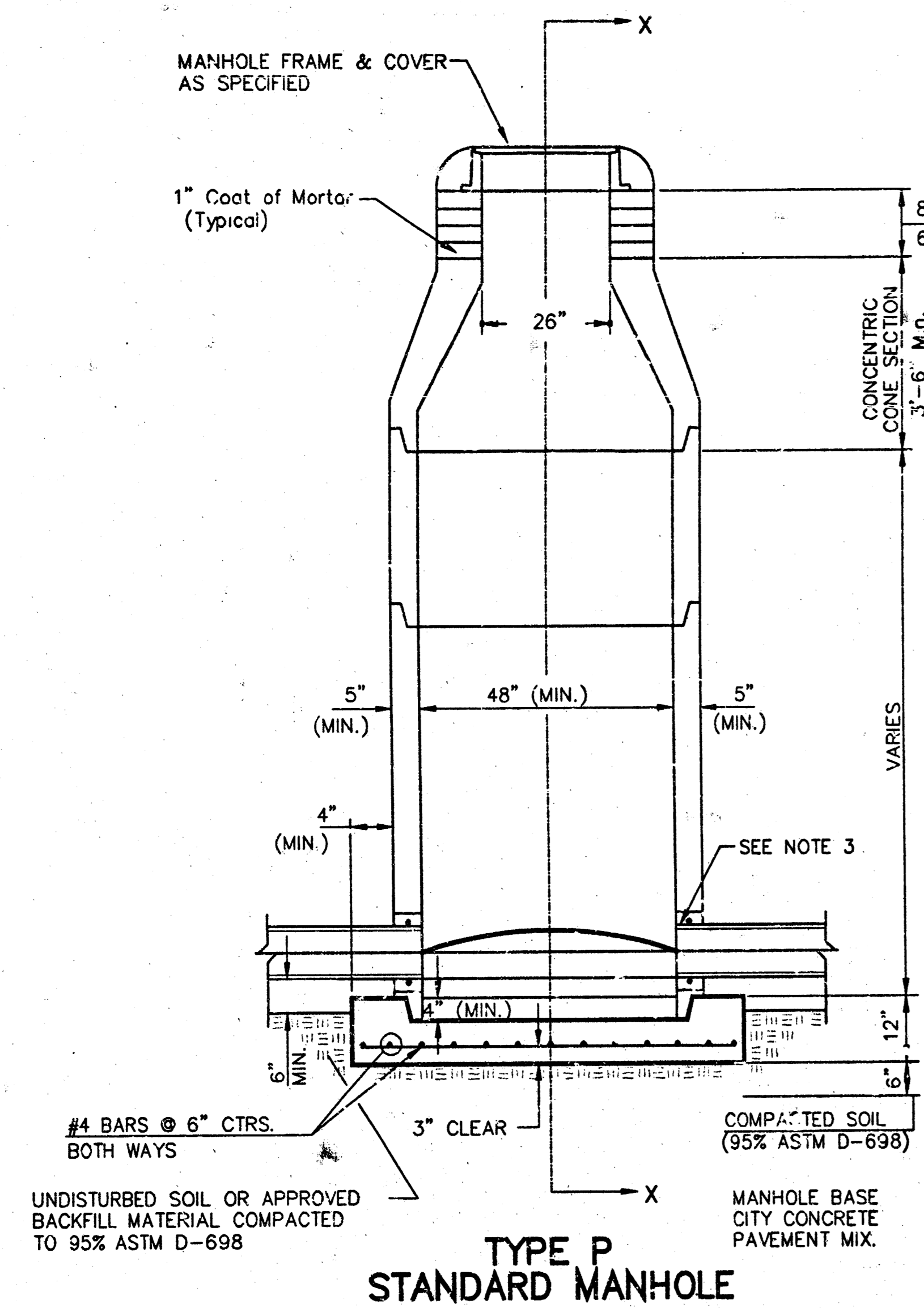
GENERAL NOTES

1. **RISERS.** Risers shall be installed to serve all lots or tracts where the sanitary sewer main is below the water table. Risers shall also be installed to serve all lots and tracts where the sanitary sewer main depth is greater than 12 feet below the proposed ground elevation. Installation of risers because of field conditions shall be as approved by the Construction Engineer. The location of the risers to serve developed property shall be approved by the property owner and the Construction Engineer.
2. **PIPE STUBS.** Pipe stubs shall be installed in manholes where locations of manholes will provide satisfactory service connection as determined by the Construction Engineer. The vertical distance between the flowing of the manhole pipe stub and the flowing of the sanitary sewer main out of the manhole shall not exceed 2 feet. Risers shall be utilized at manhole pipe stubs as indicated in Note 1. Manhole pipe stubs shall be set such that the top of the stub is not lower than the top of the sanitary sewer main.
3. **SIZING.** Pipe stubs and risers shall be sized according to the plans and riser table where risers are indicated by the plans. Where risers or pipe stubs are required because of field conditions, the risers and stubs shall be six-inch diameter for commercial or industrial properties and 4" or 6" diameter for residential properties, based on lot size and sanitary sewer main depth. Sizing of risers and stubs shall be approved by the Construction Engineer prior to installation.
4. **RISER OR STUB MATERIAL.** Risers and stubs shall be constructed of Schedule 40 PVC Pipe, meeting the reinforced concrete requirements of the latest revision of A.S.T.M. All pipe joints shall be solvent welded.
5. **REINFORCED CONCRETE ENCASEMENT.** Riser connections to clay pipe sanitary sewers shall be reinforced concrete encased both ways from the riser centerline. The reinforced concrete encasement shall extend three feet from the riser centerline or stop at the first sanitary sewer pipe joint within three feet of the riser centerline. Riser connections to PVC Sanitary Sewer mains shall be reinforced concrete encased one foot each way from the riser centerline. The concrete encasement shall be reinforced with reinforcing steel as shown in the appropriate drawing. The concrete shall conform to the City Standard Specifications for concrete pavement.
6. **BEDDING.** Bedding around the sanitary sewer riser shall be compacted Pipe Bedding Type 1 or 2. The bedding shall be placed and compacted from the depth of the sanitary sewer main to the top of the sanitary sewer riser pipe. Compacted Pipe Bedding Type 1 or 2 shall be required for all risers whether constructed in vertical wall or sloped wall trenches. Bedding material and construction practices shall be approved by the Construction Engineer prior to installation.
7. **SUPPORT OF RISERS.** Sanitary sewer riser pipe shall be supported during trench backfill. The riser pipe shall be held in a vertical position at all times until trench backfill and compaction has been completed. Contractor's methods for supporting and backfilling the riser pipe shall be approved by the Construction Engineer.
8. **PLUGGING.** The ends of the riser pipes and manhole stubs shall be plugged using an airtight solvent welded cap or plug. Cap or plug fittings shall be approved by the Construction Engineer prior to installation. Caps or plugs which do not provide an airtight seal will not be accepted.
9. **TOP OF THE RISER PIPE.** The top elevation of the sanitary sewer riser pipe shall be built per plan elevations, unless otherwise directed by the Construction Engineer. Where riser elevations are not shown on the plans, the top of the risers shall be set at an elevation four feet below the proposed ground surface. If ground water is encountered, the top of the riser pipe shall be set at an elevation two feet (min.) above the maximum water table elevation, regardless of the riser elevation shown on the plans.
10. **MARKING.** Locations of the ends of the sanitary sewer riser pipe shall be marked by fastening green colored plastic tape to the end of the riser. The tape shall be supported by a length of wooden 2 x 4, extending from the top of the riser pipe to the proposed ground surface. The green tape shall be visible and extend one foot above the proposed ground surface. The green tape shall be 4 mil Polyethylene film with a minimum width of three inches, specifically manufactured for the purpose of identification of underground sewers.
11. **LOCATION MEASURES.** The project inspector shall record and document the location of all risers constructed as measured from the nearest manhole, indicating the direction from the manhole, the direction and distance from the main, riser size, and elevation of the top of the riser.
12. **RISER LOCATION.** The riser shall be located per plan if shown. If not shown on the plan, the riser shall be located at the center of the lot, within one foot of the property side of the easement for the lot being served. All riser locations shall be approved by the Construction Engineer prior to installation.
13. **PAYMENT.** "Sanitary sewer risers" shall be paid for at the contract unit price per each, which price shall be full compensation for all pipe, fittings, marking tape, length of wooden 2 x 4, reinforced concrete encasement, support during backfill, backfill, labor, site restoration, and any other items necessary to complete the work.
"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	
Riser Details	
BAUGHMAN COMPANY P.A.	
ENGINEERING, SURVEYING, & PLANNING	
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67201	
PROJECT NUMBER	SHEET
468-93103	10
DESIGN	SCALE
DRAWN	NONE
APPROVED	DATE
06-01	13

07-05-2023

SEWER APPURTENANCES DETAILS

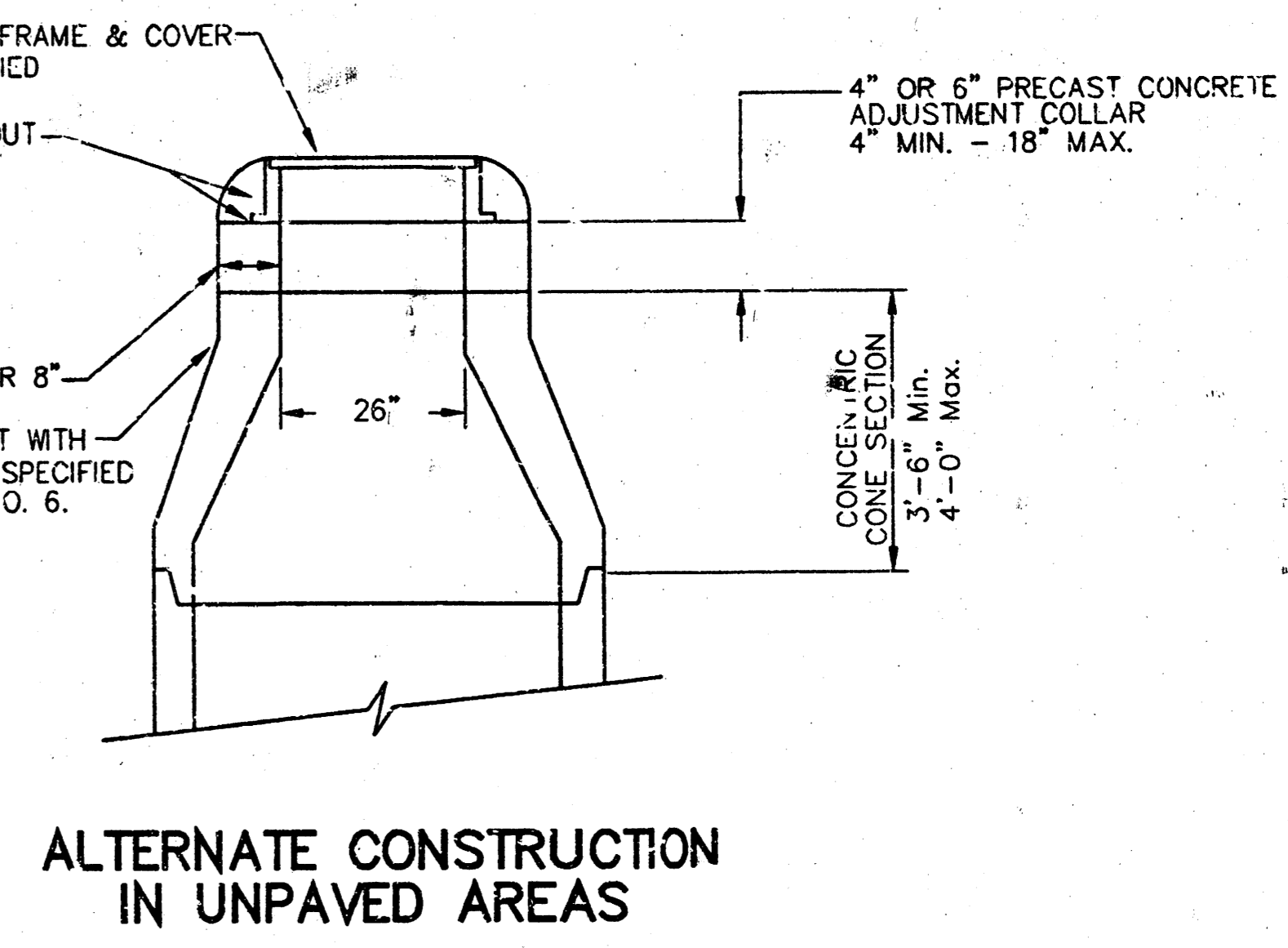


GENERAL NOTES

- PRECAST MANHOLE NOTES**
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
 - NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
 - 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 ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
 - ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEPEC SERIES 66 H-BUILD EPOXYLINE, DRY THICKNESS OF 8 MILS (MIN.).
 - EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.
 - JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
 - PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
 - 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.
 - LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
 - 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.

- 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 FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- 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 PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP CASSETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NON-SHRINK 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. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
- 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 OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAR 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.
- PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE 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 PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

- 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.
- 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.
- STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE 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.
- A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS 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.



STD. MANHOLE DETAILS
SEWER APPURTENANCES

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING

316-282-7271 • 218 BELL ST. • WICHITA, KANSAS 67202

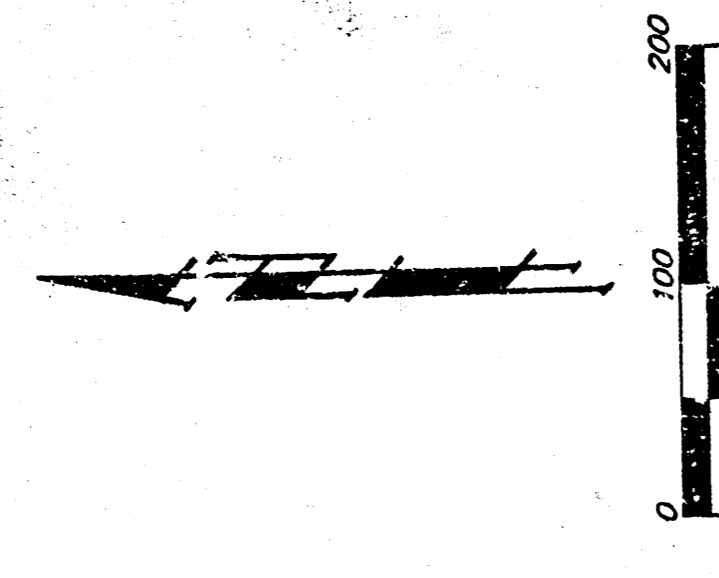
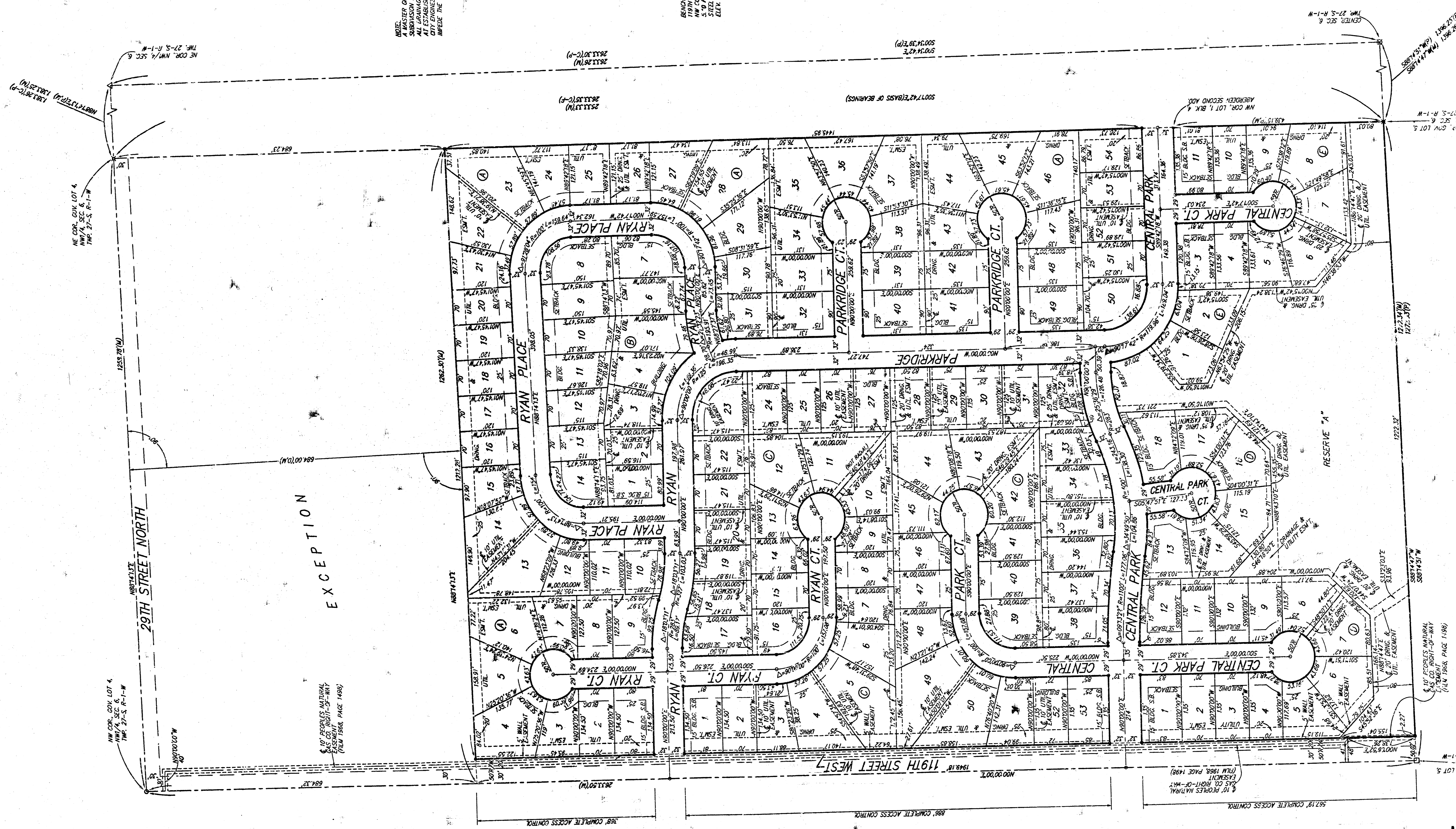
PROJECT NUMBER: **468-83103**

DESIGN: STAFF DRAWN: STA APPROVED: DATE: 06-01 SCALE: NONE

SHEET **11** OF **13**

WEST RIDGE ESTATES

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



- P. RYAN W. BAUGHMAN CAP (SET)
- P. RYAN W. BAUGHMAN CAP (ROUND)
- STATE (ROUND)
- 1/2" DIA (ROUND)
- 1/2" DIA (ROUND)
- 1/2" DIA (ROUND)

(M) = MEASURED
 (D) = DIMENSIONED
 (C-P) = CALCULATED PER
 PLATTED AREA

NOTE: A MASTER GRADING PLAN FOR THIS PROJECT HAS BEEN DEVELOPED FOR THIS PROJECT. ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE BENCHMARK AT THE CORNER OF INTERSECTION 4322 FEET NW OF SECTION 36, T27S, R11W, M. 19TH ST. ELEV. = 1733.57 CITY DATUM.

NOTE: AGREEMENT FOR DRAINAGE PURPOSES (MCC. 2004.201) HAS BEEN ENTERED INTO BY THE CITY OF WICHITA AND THE STATE OF KANSAS. THE CITY OF WICHITA HAS AGREED TO MAINTAIN THE DRAINAGE SYSTEM WHICH SERVES THE FLOW OF THIS DRAINAGE SYSTEM SHALL BE ALLOWED.

LOT	BACK	ELEVATION	CITY DATUM
1-10	0	171.0	
11-20	0	171.0	
21-30	0	171.0	
31-40	0	171.0	
41-50	0	171.0	
51-60	0	171.0	
61-70	0	171.0	
71-80	0	171.0	
81-90	0	171.0	
91-100	0	171.0	

NOTE: AGREEMENT FOR DRAINAGE PURPOSES (MCC. 2004.201) HAS BEEN ENTERED INTO BY THE CITY OF WICHITA AND THE STATE OF KANSAS. THE CITY OF WICHITA HAS AGREED TO MAINTAIN THE DRAINAGE SYSTEM WHICH SERVES THE FLOW OF THIS DRAINAGE SYSTEM SHALL BE ALLOWED.

14-40-50-81