

4MC-051

BUREAU OF PUBLIC SERVICES

SEDGWICK COUNTY, KANSAS



SANITARY SEWER IMPROVEMENTS

FOR

BRIDGEFIELD ADDITION

INDEX of SHEETS:

- 1. COVER SHEET
- 2. GENERAL NOTES & PROJECT AREA
- 3-5. SANITARY SEWER LINE 91-1 (EXISTING)
- 6-7. SANITARY SEWER LINE 91-1
- 8. SANITARY SEWER LINES 91-1 & 91-5
- 9. SANITARY SEWER LINES 91-2 & 91-2A
- 10. SANITARY SEWER LINES 91-3 & 91-4
- 11. SANITARY SEWER LINES 91-6 & 91-7
- 12-13. SANITARY SEWER LINE 91-8
- 14. SANITARY SEWER LINES 91-9 & 91-10
- 15. SANITARY SEWER LINE 91-11
- 16. SANITARY SEWER LINE 91-12
- 17. EASEMENT GRADING PLAN
- 18. EASEMENT GRADING PLAN
- 19. PRECAST MANHOLE DETAILS
- 20. BACKFILL DETAILS
- 21. SERVICE CONNECTION DETAILS
- 22. PLAT OF BRIDGEFIELD ADDITION

NET LENGTH OF PROJECT 3340 FT. 1.6 MILES

APPROVED:

David C. ...
 COUNTY ENGINEER / DIRECTOR OF PUBLIC SERVICES
 DATE: 6/4/97

APPROVED:

James ...
 CHAIRMAN, BOARD OF COUNTY COMMISSIONERS
 DATE: 6-5-97

FILED IN THE OFFICE OF THE SEDGWICK COUNTY CLERK:

James ...
 COUNTY CLERK
 DATE: 6-6-97

PLANS PREPARED BY:

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

4MC-051

BRIDGEFIELD ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS.

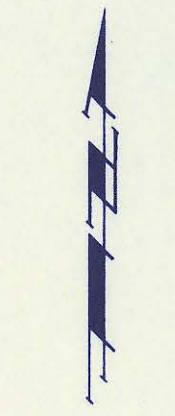
SANITARY SEWER

GENERAL NOTES

- All Elevations shown are USGS Datum.
- At least 72 hours prior to beginning any excavation (excluding weekends and holidays), the Contractor shall contact the Kansas-One-Call system, a utility location service, at 887-2470 to request the following utility companies to locate any existing lines within the project area: Multimedia Cable TV, Wichita Water, Southwestern Bell Telephone, K.G.&E. Gas and K.G.&E. Electric. Request location of the existing gas line from Farmland Industries Pipeline.
- The buried utilities as shown on the plans are approximate locations only. It should be noted that other buried lines and cables may exist which are not shown on these plans. The Contractor shall exercise extreme caution during trenching operations to avoid damaging these lines. Any lines damaged shall be replaced or repaired immediately as directed by the Engineer at the Contractor's expense.
- The Contractor shall contact the Sedgwick County Eastern Sewer District (733-0202) at least 24 hours before connecting new sewer pipe to the existing sewer system. The Contractor shall keep any construction debris from entering the existing sanitary sewer during construction. A mechanical plug shall be installed and maintained to isolate the existing sewer from the new construction until the new construction is cleaned, televised, and has been accepted to prevent water or debris from entering the existing sewer. The water used for cleaning shall not be added to the flow of the existing sewer. The cleaning or otherwise accumulated water shall be pumped or otherwise removed prior to televising.
- All manhole stubs shall be Schedule 40.
- All pipe joints shall be laid and pushed "full home" with the beveled end of the spigot making full contact with the chamfered area at the throat of the bell or socket, with no separation between them. If separation is determined, the pipe shall be excavated and relaid according to specifications at the Contractor's expense.
- Excess excavation material and other debris shall be wasted on sites to be provided by the Contractor as approved by the Engineer at no additional cost to the Owner.
- 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 archaeological investigations unless buried in a previously approved borrow location.
- 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 be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the County. 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.
- The Contractor shall be responsible for preserving property irons. The Contractor shall 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. Prior to start of construction, the contractor shall flag and return all property corners that may be disturbed by construction operations, and verify these in the field in the presence of the Engineer and the Contractor's surveyor. After construction and before final inspection, a letter signed and sealed by the licensed land surveyor certifying replacement of all disturbed property corners shall be submitted to the Engineer.
- The Contractor shall contain his operation to permit traffic through and across construction at existing roadways at all times. The Contractor shall erect warning signs, flashing lights, and barricades in compliance with the manual on uniform traffic control devices to ensure safety as directed in the general conditions. The Contractor shall limit the extent of trench to remain open overnight and weekends to less than 50 feet.
- The Contractor shall restore all ditches, swales, road shoulders, and banks to their original slopes and grades except where new grades are established by the Easement Grading plan. Where existing entrance pipe, drainage pipe, signs, fences, etc., conflict with the proposed work herein, they shall be removed and replaced or reset. The replacement of all the aforementioned items, including seeding, fertilizer and mulching shall be considered subsidiary to the project.
- Easements and right-of-ways provided by the owner for the project are shown in the plans. The Contractor shall be responsible for the acquisition of any additional temporary easements or right-of-ways that he desires to use in completing the work.
- Positive drainage shall be provided for all areas on or near spoil areas. Natural drainage ways shall be maintained.
- The Contractor shall provide positive drainage away from all manhole covers.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of 10 days advance notice prior to start of construction in the vicinity of the affected property.
- All trench backfill shall be either type I or type III unless noted otherwise.
- Top elevations for manholes are approximate only. Top elevations for manholes shall be set as follows:
 - Outside of traveled ways, 1.0 foot above finish grade.
 - Paved traveled ways, flush with finish grade.
 - Unpaved traveled ways, as directed by the Engineer.
- The Contractor shall also contact the following at least 72 hours prior to beginning construction to advise them of the intended work and of his proposed schedule:

Sedgwick County Bureau of Public Services
1250 S. Seneca
Wichita, KS. 67213
Mr. Jim Weber
(316) 383-7901
- It shall be the responsibility of the Contractor to satisfy himself as to the existence of unusual subsurface conditions, and to allow for such conditions in his bid.
- Contractor shall follow Best Management Practice as described in the project Storm Water Pollution Prevention Plan (SWPPP), a copy of which may be obtained from the engineer.
- All methods of construction and construction materials shall be in accordance with the Sedgwick County Standard Specifications.
- All areas disturbed by construction operations shall be seeded, fertilized and mulched per county specifications. All costs for seeding shall be included in lump sum bid item "Site Clearing and Restoration."

MILE SECTION
6347



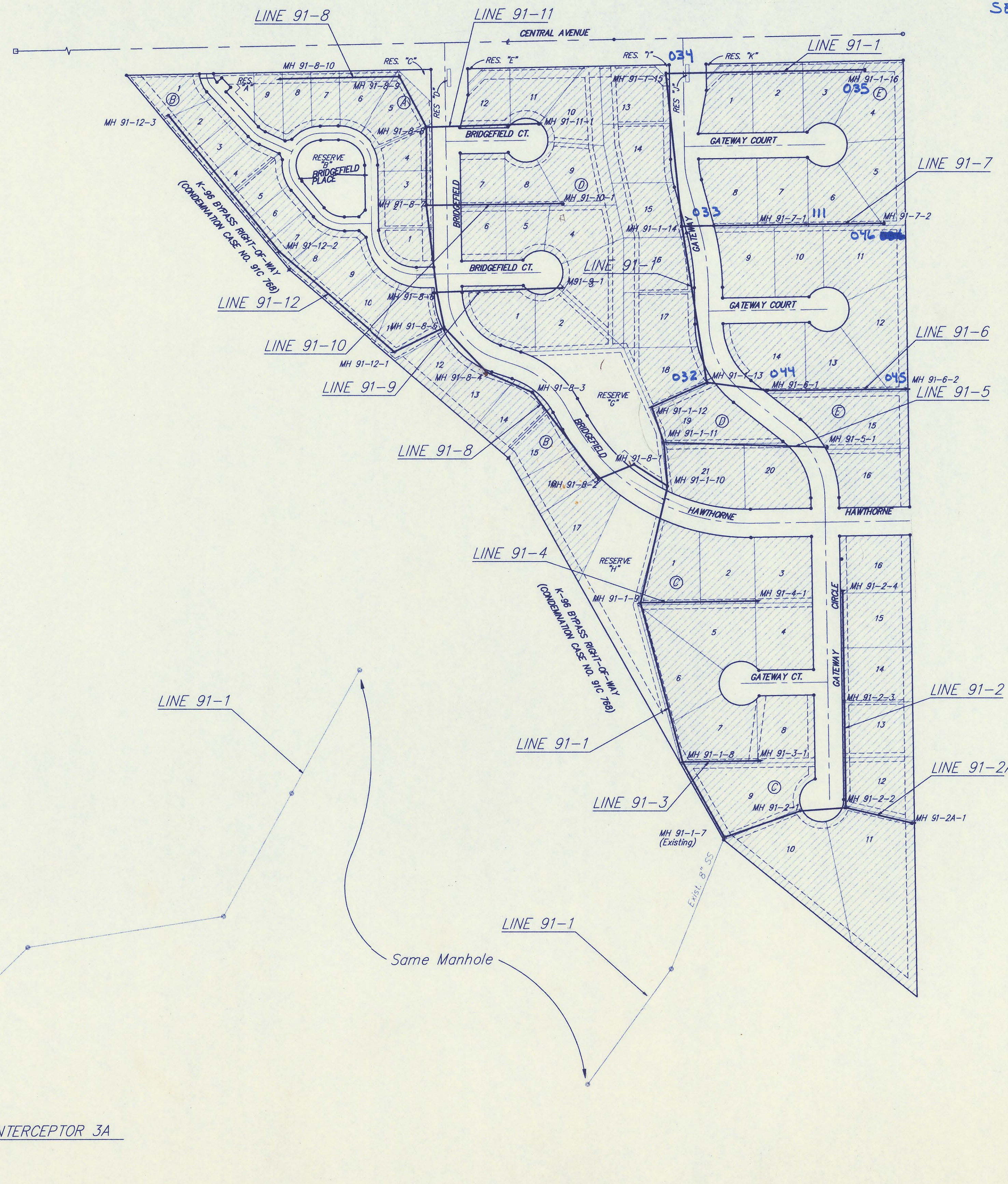
SCALE:
1" = 150'

Benefit District

Benchmark:

"□" Cut on Traffic Signal Pole Base
Located at the SE Corner 127th & Central.
Elevation = 1368.50 M.S.L.

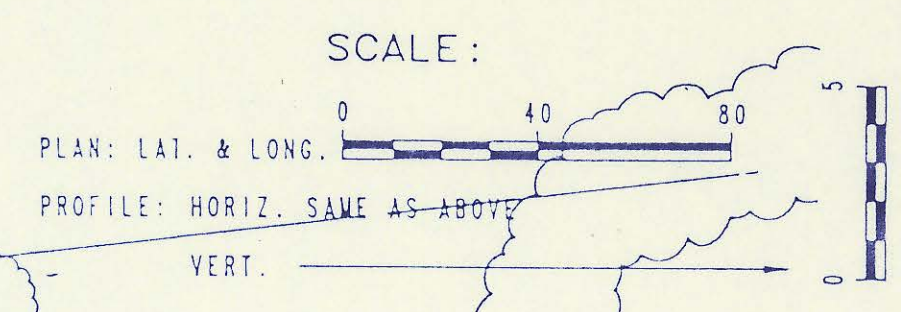
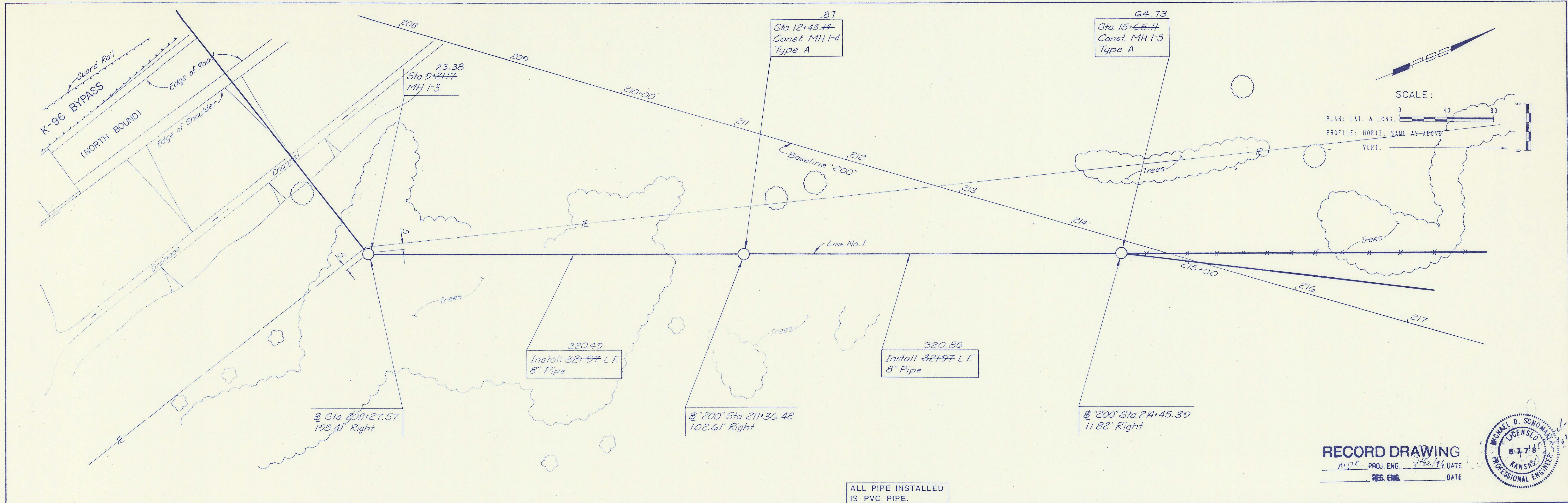
RR Spike on S. Side of H.L.P. Located
275' West & 50' South of N 1/4 Cor.
Sec. 23-27-2E.
Elevation = 1366.34 M.S.L.



BRIDGEFIELD ADDITION			
GENERAL NOTES			
& PROJECT AREA			
BAUGHMAN COMPANY P.A.			
ENGINEERING, SURVEYING, & PLANNING			
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER			
Sedgwick County, Kansas			
DESIGN	DRAWN	APPROVED	DATE
	JAK		6/24/97
SCALE		NOTED	
		2	
		22	

PLAN
 DATE
 BY
 CHECKED
 NO. 1

PROFILE
 DATE
 BY
 CHECKED
 NO. 1

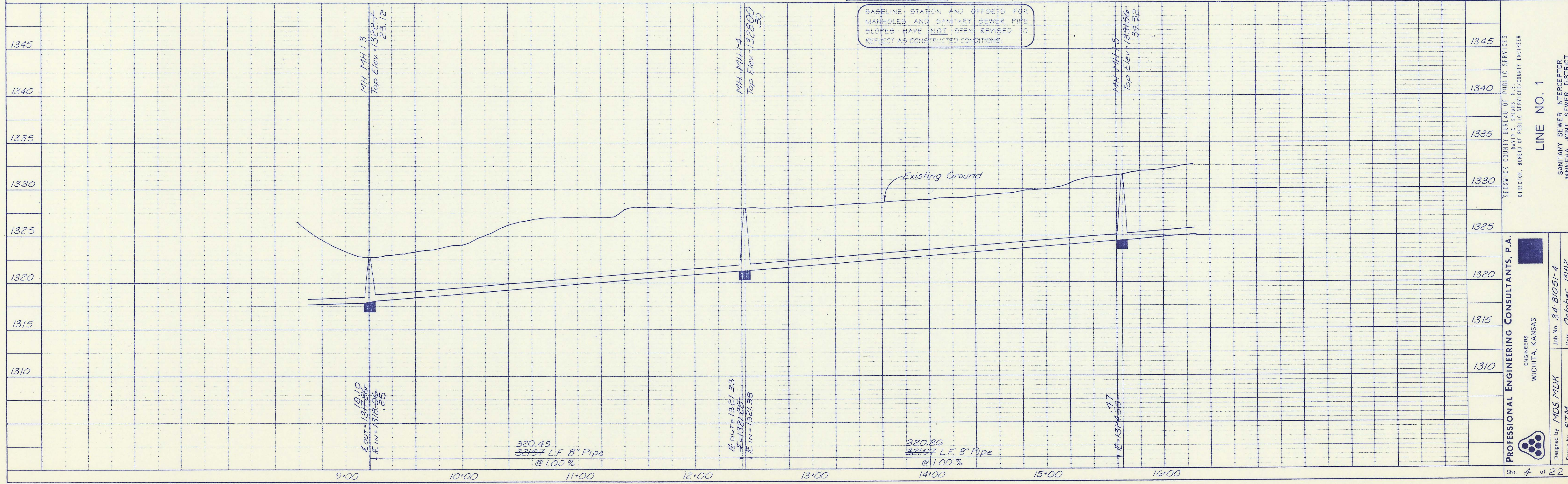


RECORD DRAWING
 PROJ. ENG. DATE
 RES. ENG. DATE



ALL PIPE INSTALLED IS PVC PIPE.

BASILINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.



SEWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
 LINE NO. 1
 SANITARY SEWER INTERCEPTOR
 MINNEHA JOINT SEWER DISTRICT

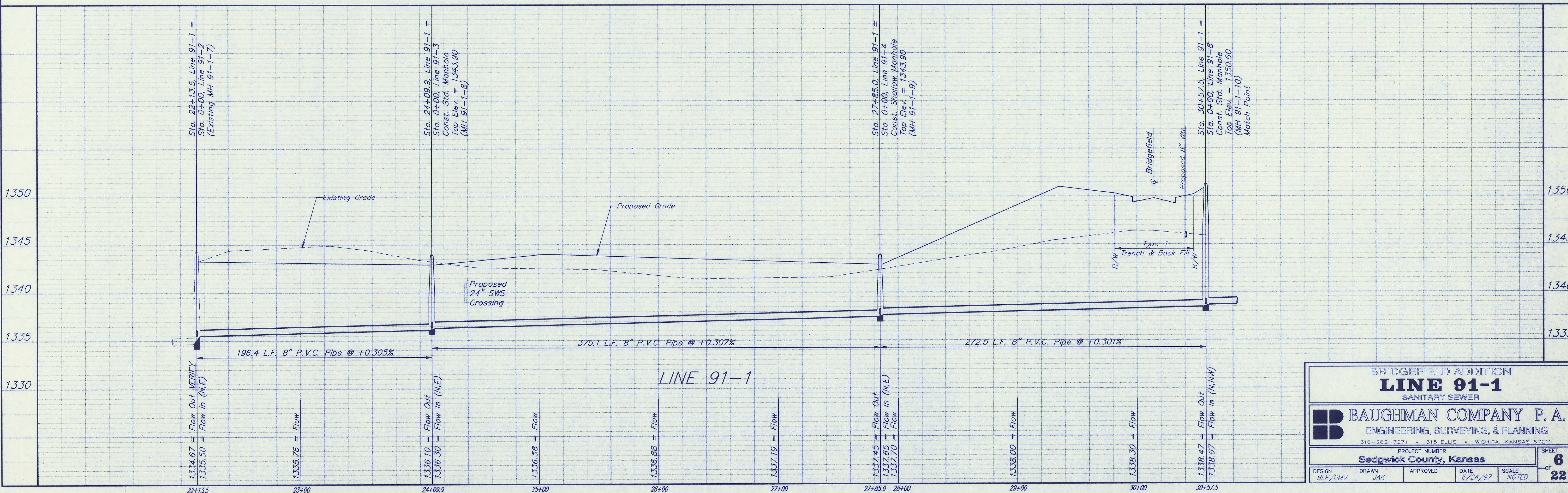
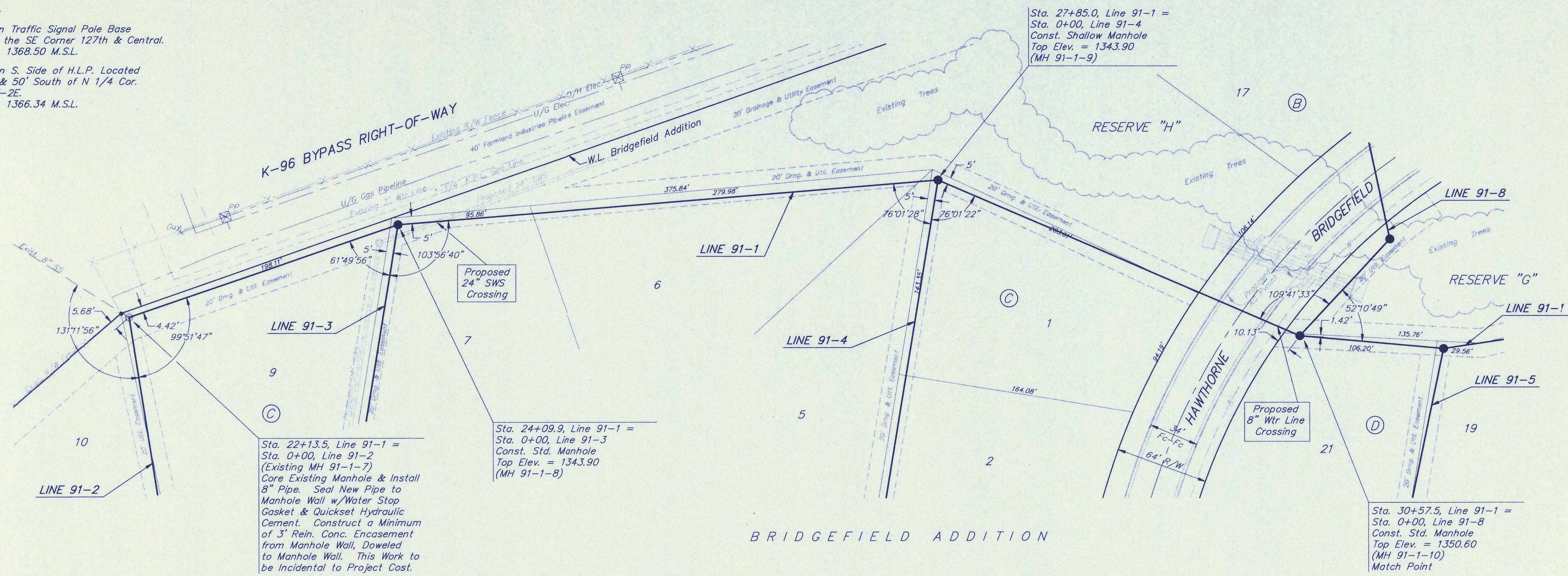
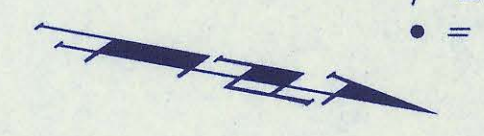
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Job No. 34-81051-4
 Date October, 1992
 Designed by MDS,MDK
 Drawn by STM
 Sht. 4 of 22

Benchmark:

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 Located at the SE Corner 127th & Central.
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 Sec 23-27-2E.
 Elevation = 1366.34 M.S.L.

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



BRIDGEFIELD ADDITION
LINE 91-1
 SANITARY SEWER

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

PROJECT NUMBER
Sedgwick County, Kansas

DESIGN ELP/DMV	DRAWN JAK	APPROVED	DATE 6/24/97
SCALE NOTED		SHEET 6 OF 22	

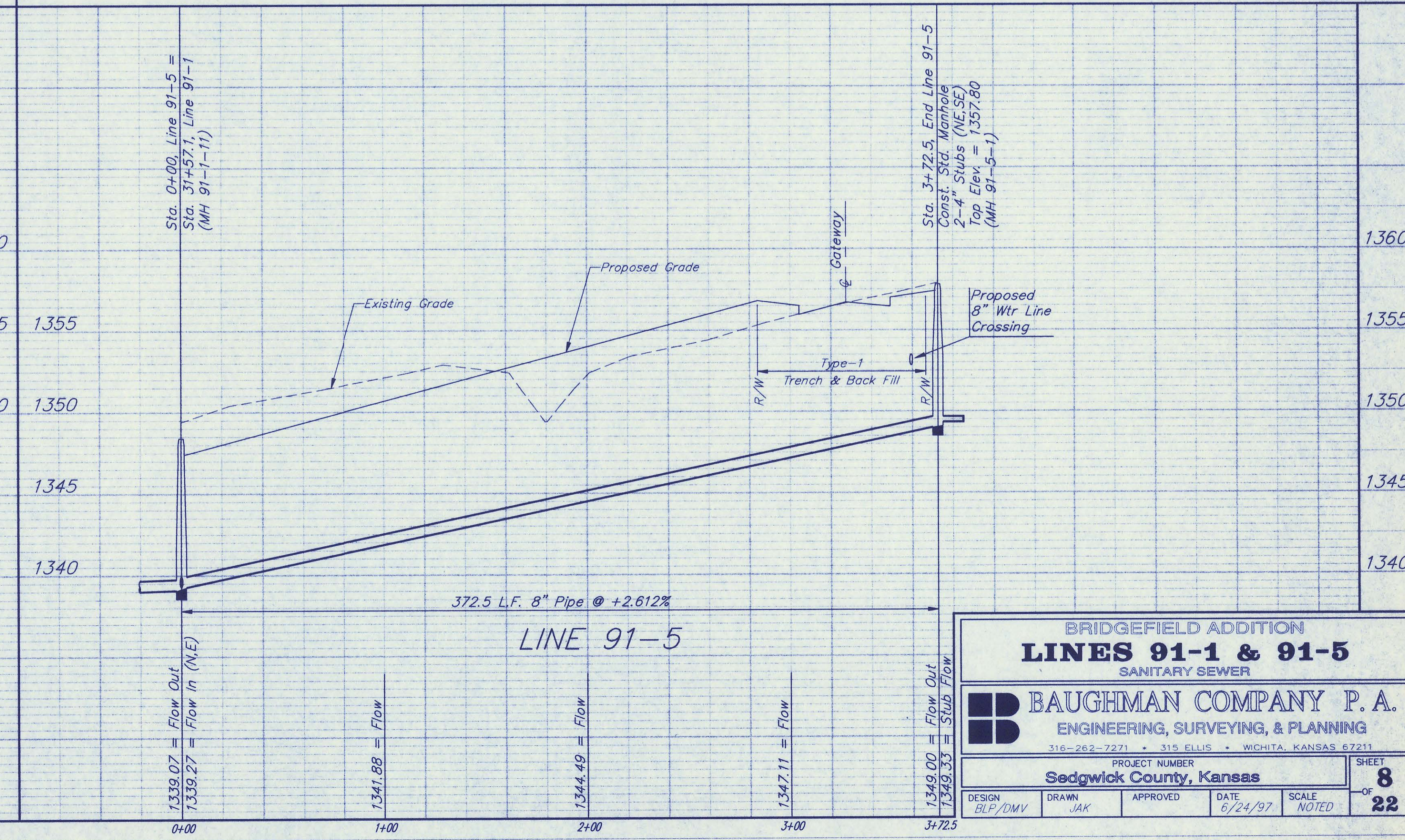
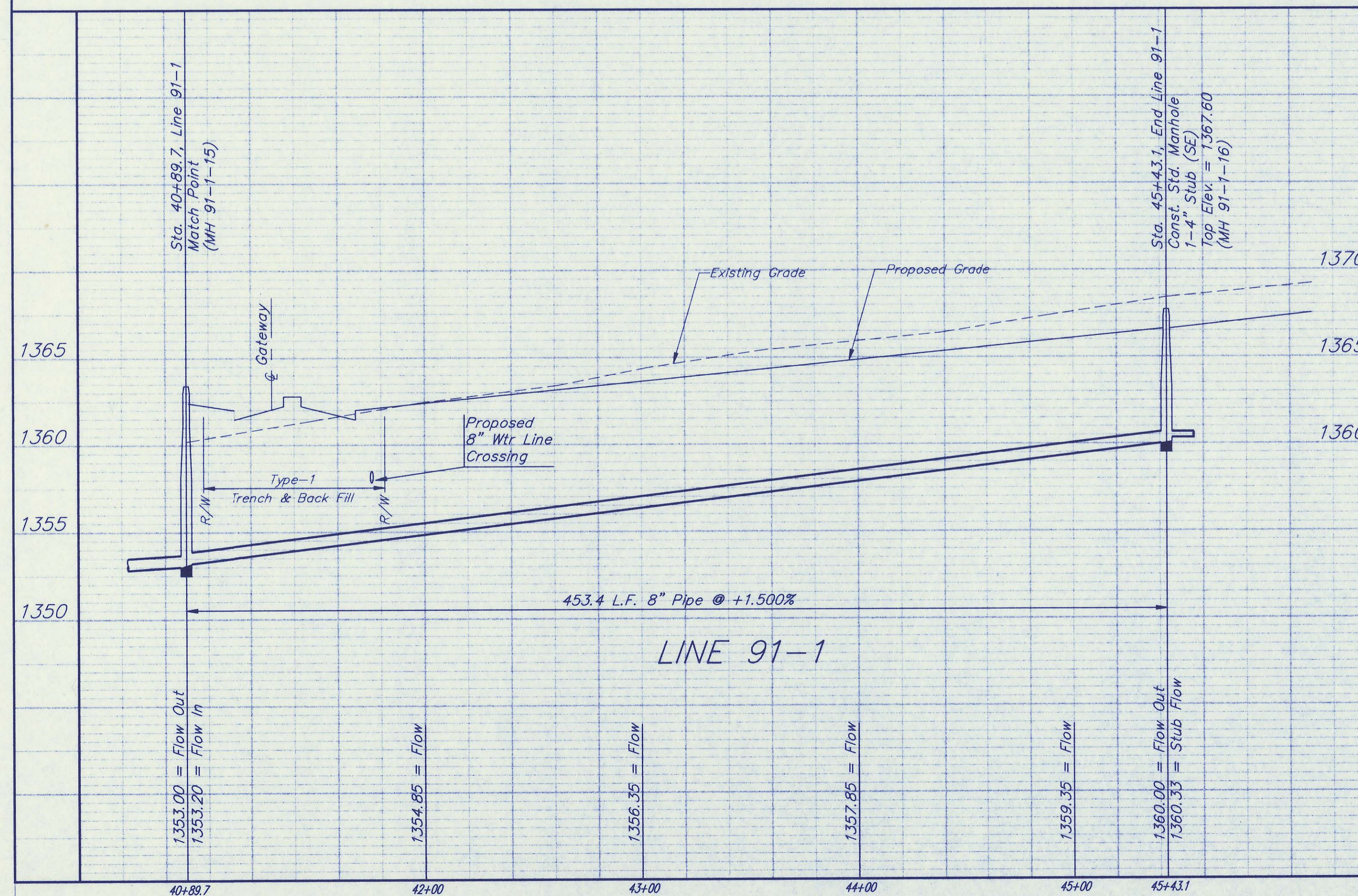
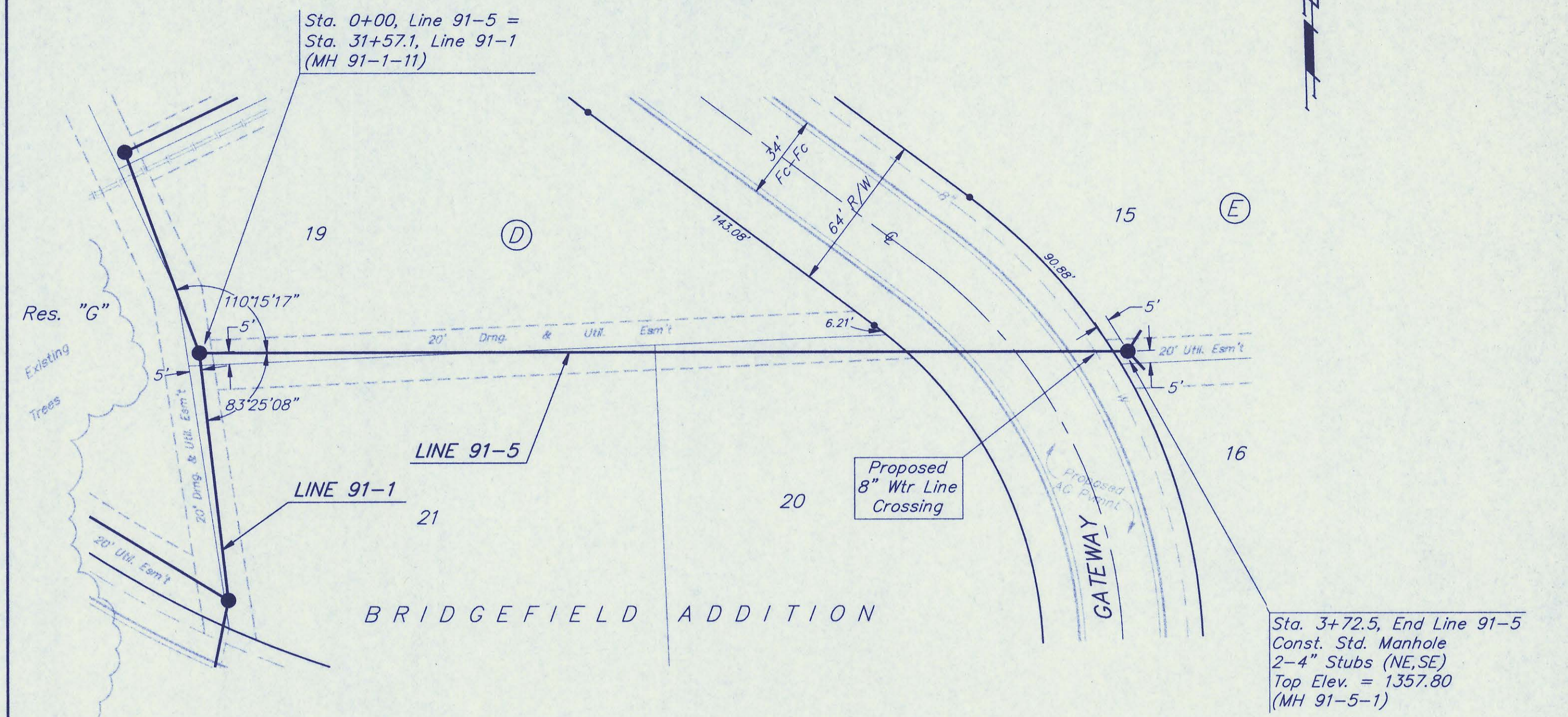
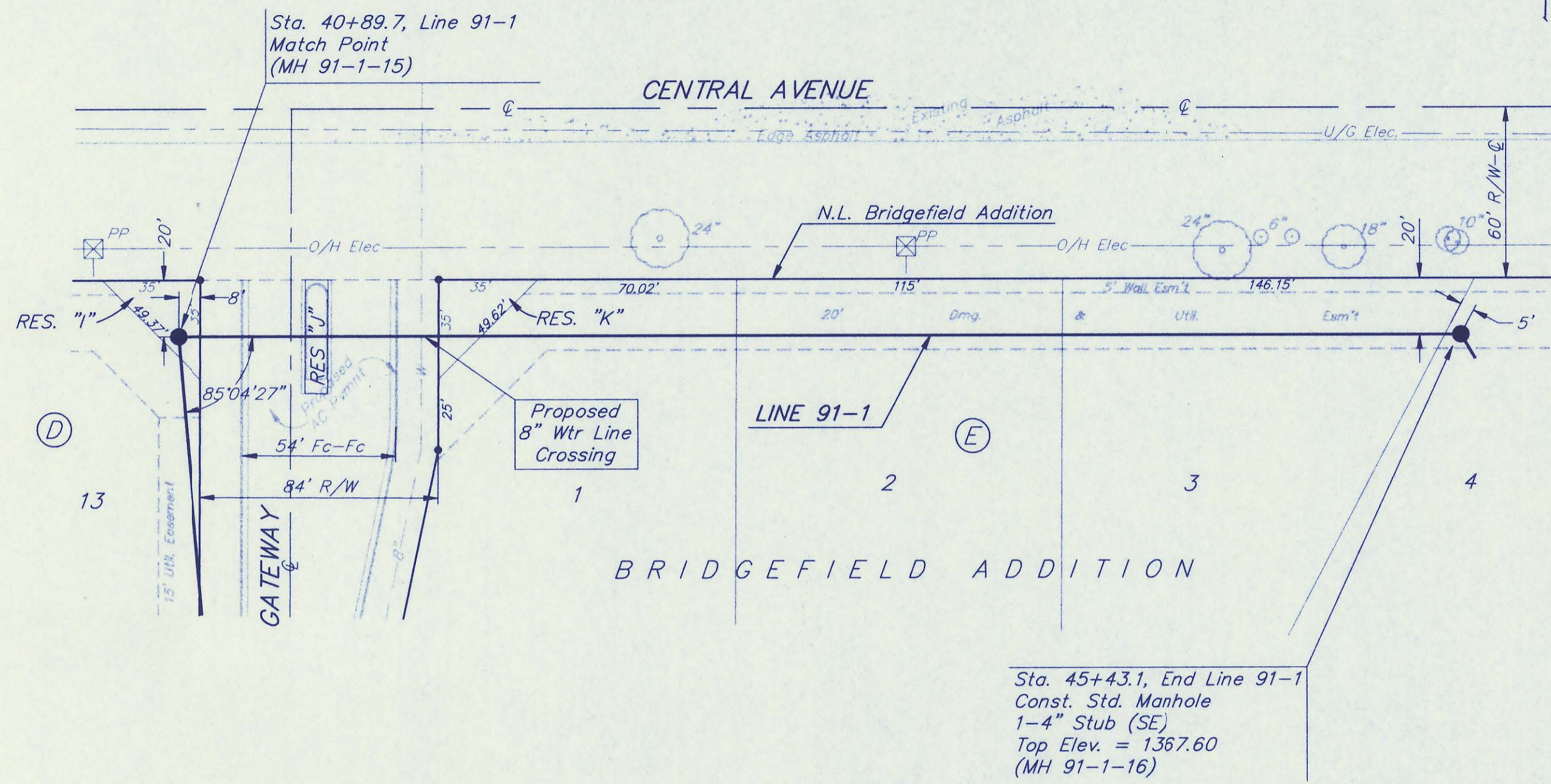
97-05-1680
 Bridge ISSY

Benchmark:

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BRIDGEFIELD ADDITION
LINES 91-1 & 91-5
 SANITARY SEWER

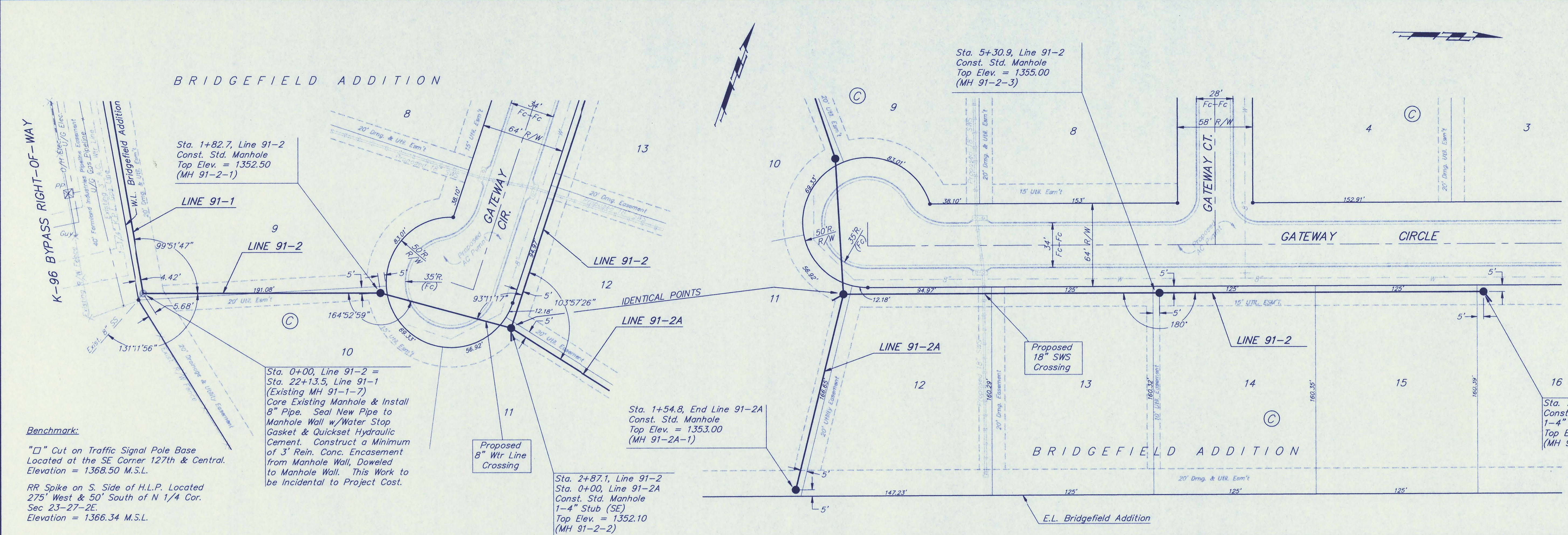
BAUGHMAN COMPANY P. A.
 ENGINEERING, SURVEYING, & PLANNING
 316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER: _____ SHEET **8** OF **22**

Sedgwick County, Kansas

DESIGN ELP/DMV	DRAWN JAK	APPROVED	DATE 6/24/97	SCALE NOTED
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SCALE:
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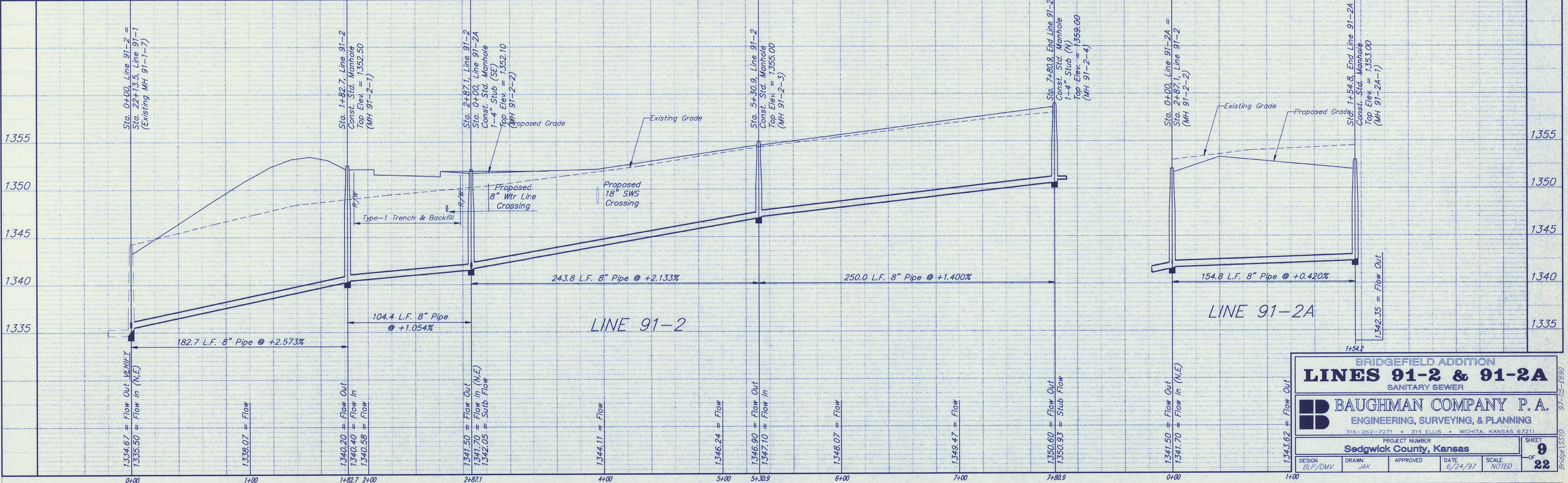
Sta. 0+00, Line 91-2 = Sta. 22+13.5, Line 91-1 (Existing MH 91-1-7) Core Existing Manhole & Install 8" Pipe. Seal New Pipe to Manhole Wall w/Water Stop Gasket & Quikset Hydraulic Cement. Construct a Minimum of 3' Rein. Conc. Encasement from Manhole Wall, Doweled to Manhole Wall. This Work to be Incidental to Project Cost.

Sta. 2+87.1, Line 91-2
 Sta. 0+00, Line 91-2A
 Const. Std. Manhole 1-4" Stub (SE)
 Top Elev. = 1352.10
 (MH 91-2-2)

Sta. 1+54.8, End Line 91-2A
 Const. Std. Manhole
 Top Elev. = 1353.00
 (MH 91-2A-1)

Sta. 5+30.9, Line 91-2
 Const. Std. Manhole
 Top Elev. = 1355.00
 (MH 91-2-3)

Sta. 7+80.9, End Line 91-2
 Const. Std. Manhole
 1-4" Stub (NE)
 Top Elev. = 1359.00
 (MH 91-2-4)



BRIDGEFIELD ADDITION
LINES 91-2 & 91-2A
 SANITARY SEWER

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

PROJECT NUMBER: Sedgwick County, Kansas

DESIGN: BLP/DMV | DRAWN: JAK | APPROVED: [Signature] | DATE: 6/24/97 | SCALE: NOTED

SHEET 9 OF 22

Benchmark:

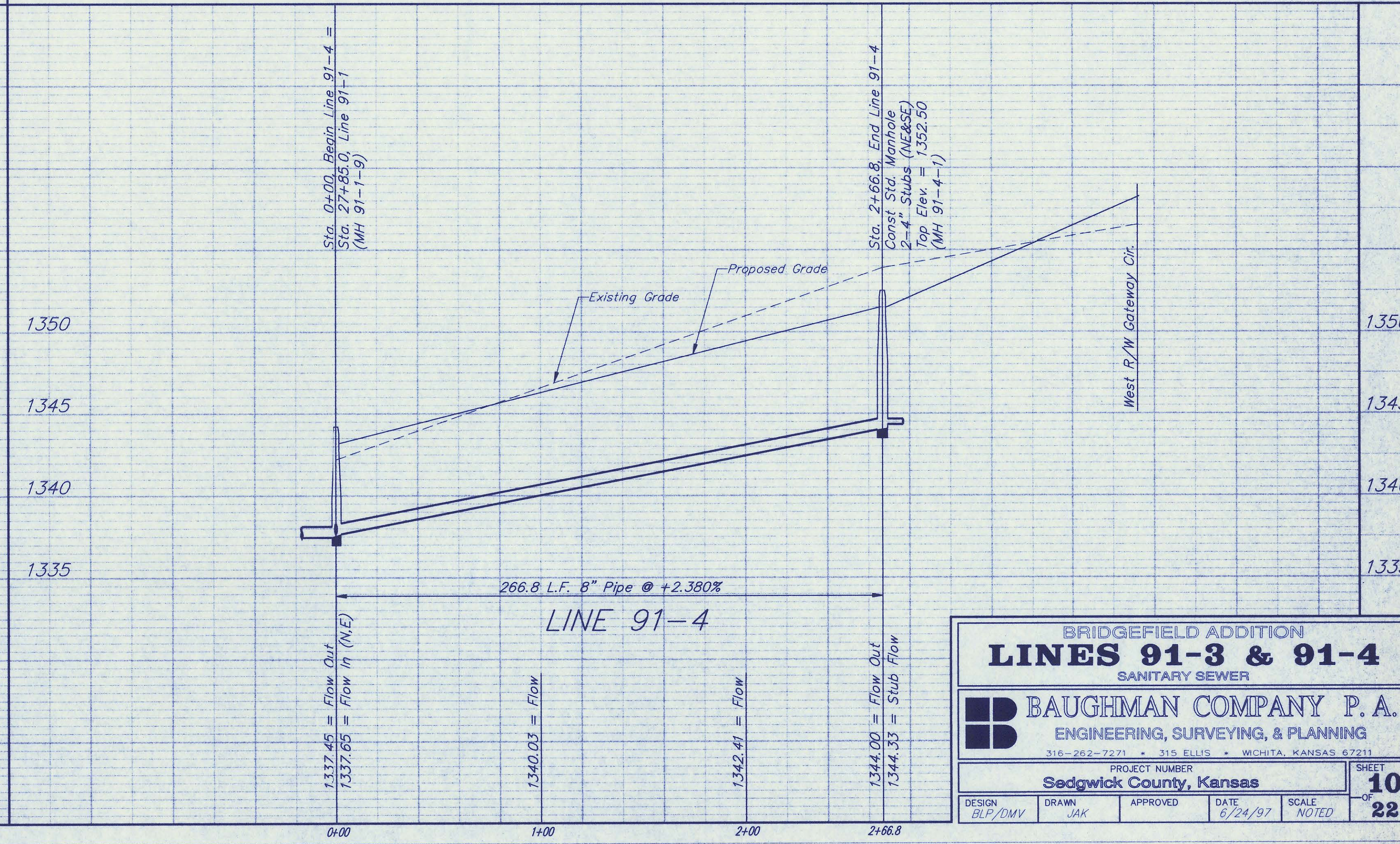
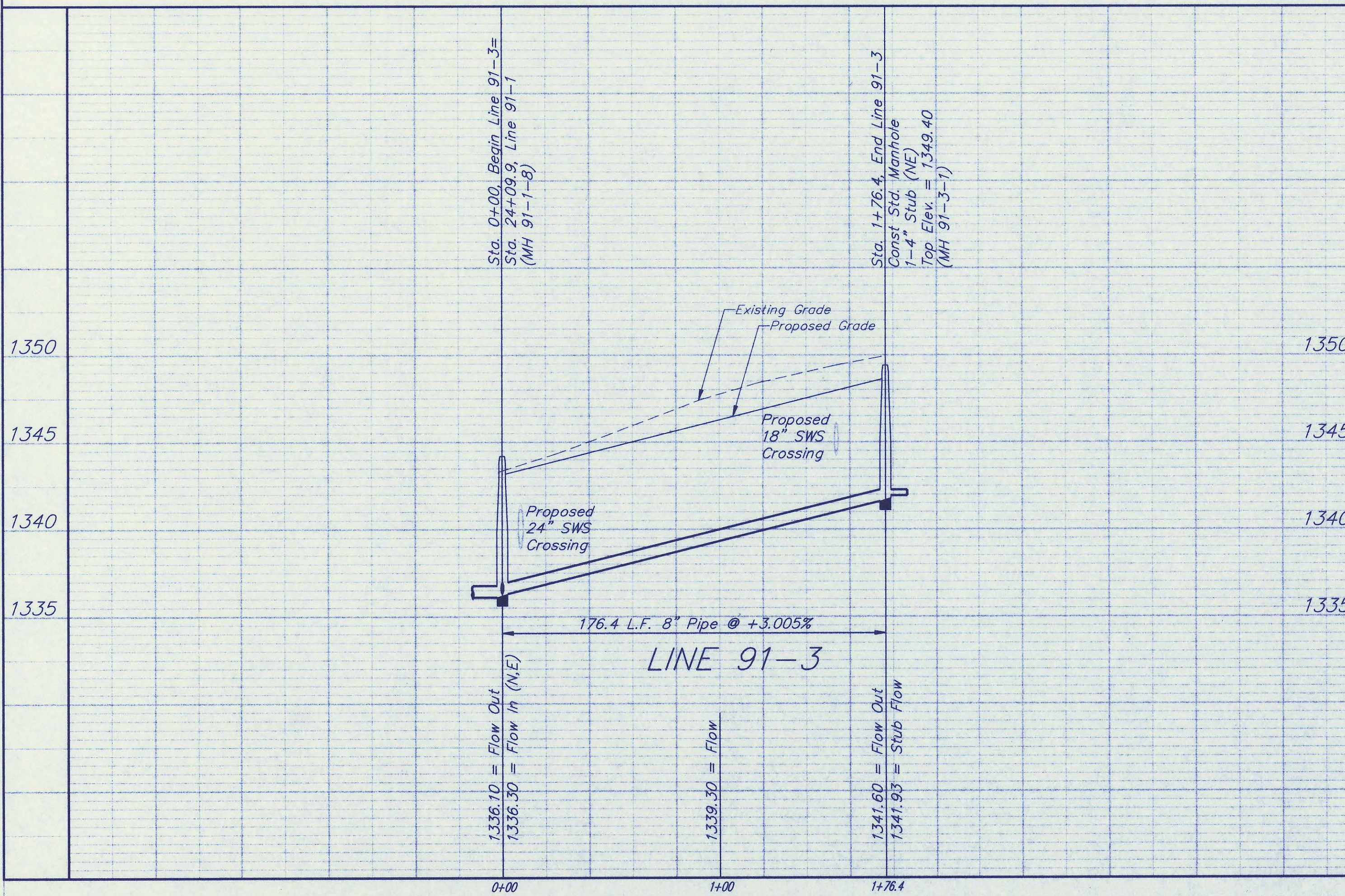
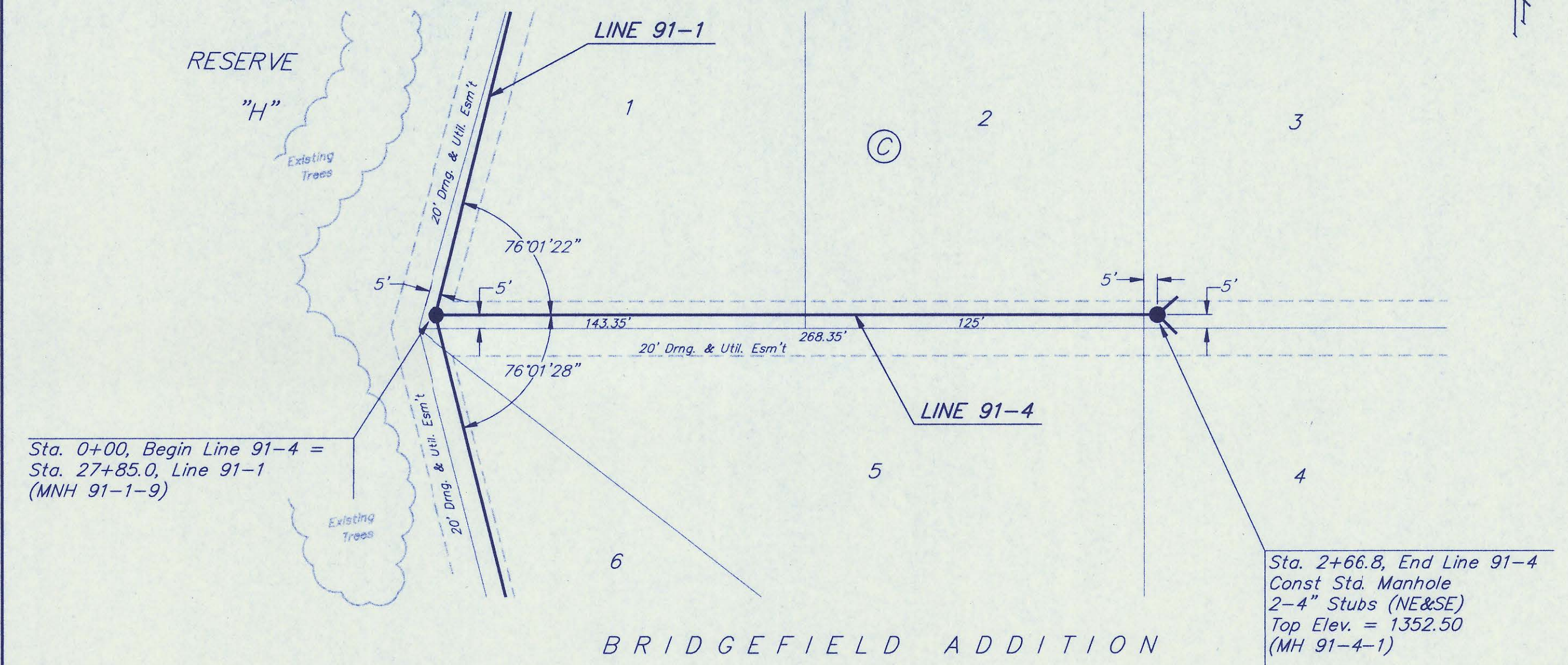
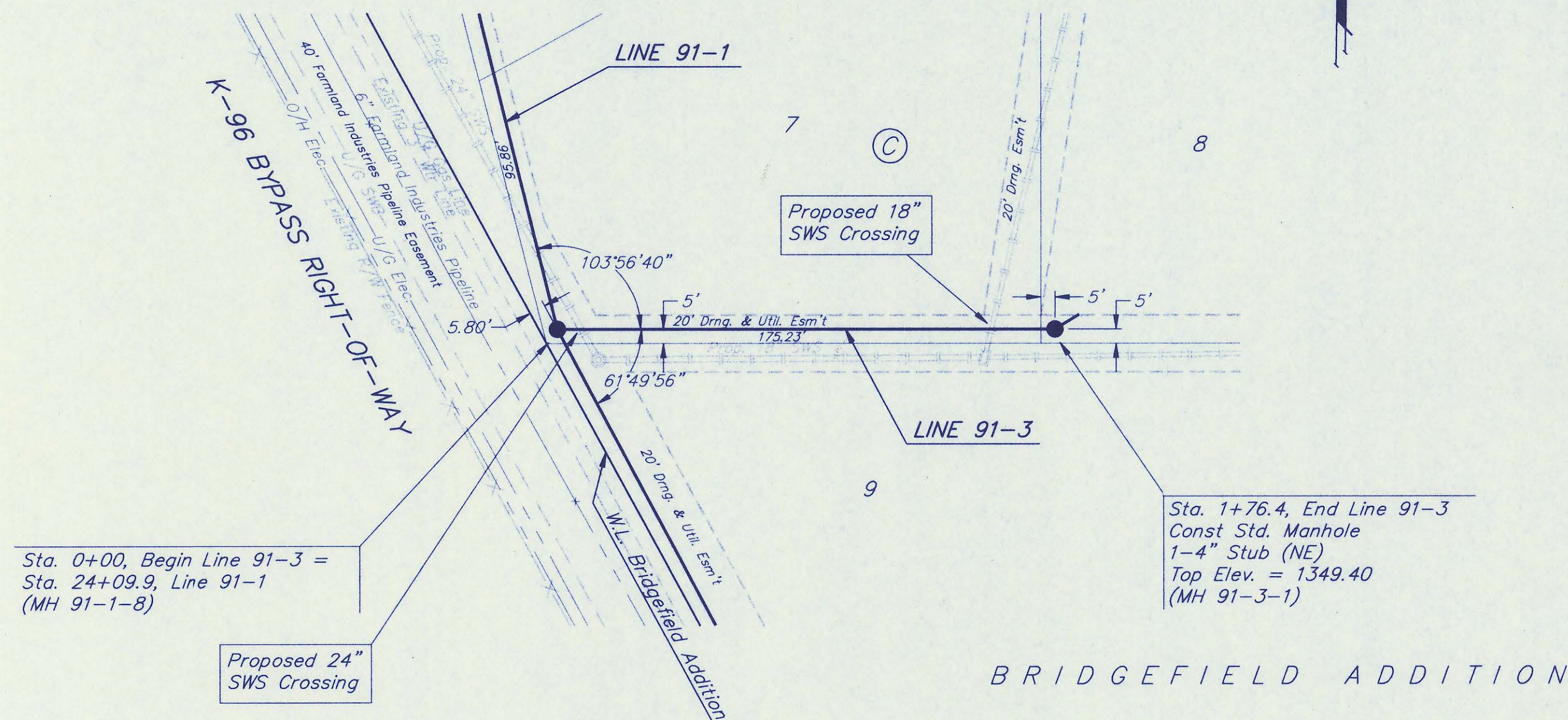
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SCALE:
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 • = IRON

BRIDGEFIELD ADDITION

BRIDGEFIELD ADDITION



BRIDGEFIELD ADDITION
LINES 91-3 & 91-4
 SANITARY SEWER

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

PROJECT NUMBER
Sedgwick County, Kansas

DESIGN: BLP/DMV DRAWN: JAK APPROVED: [Signature] DATE: 6/24/97 SCALE: NOTED

SHEET **10** OF **22**

Benchmark:

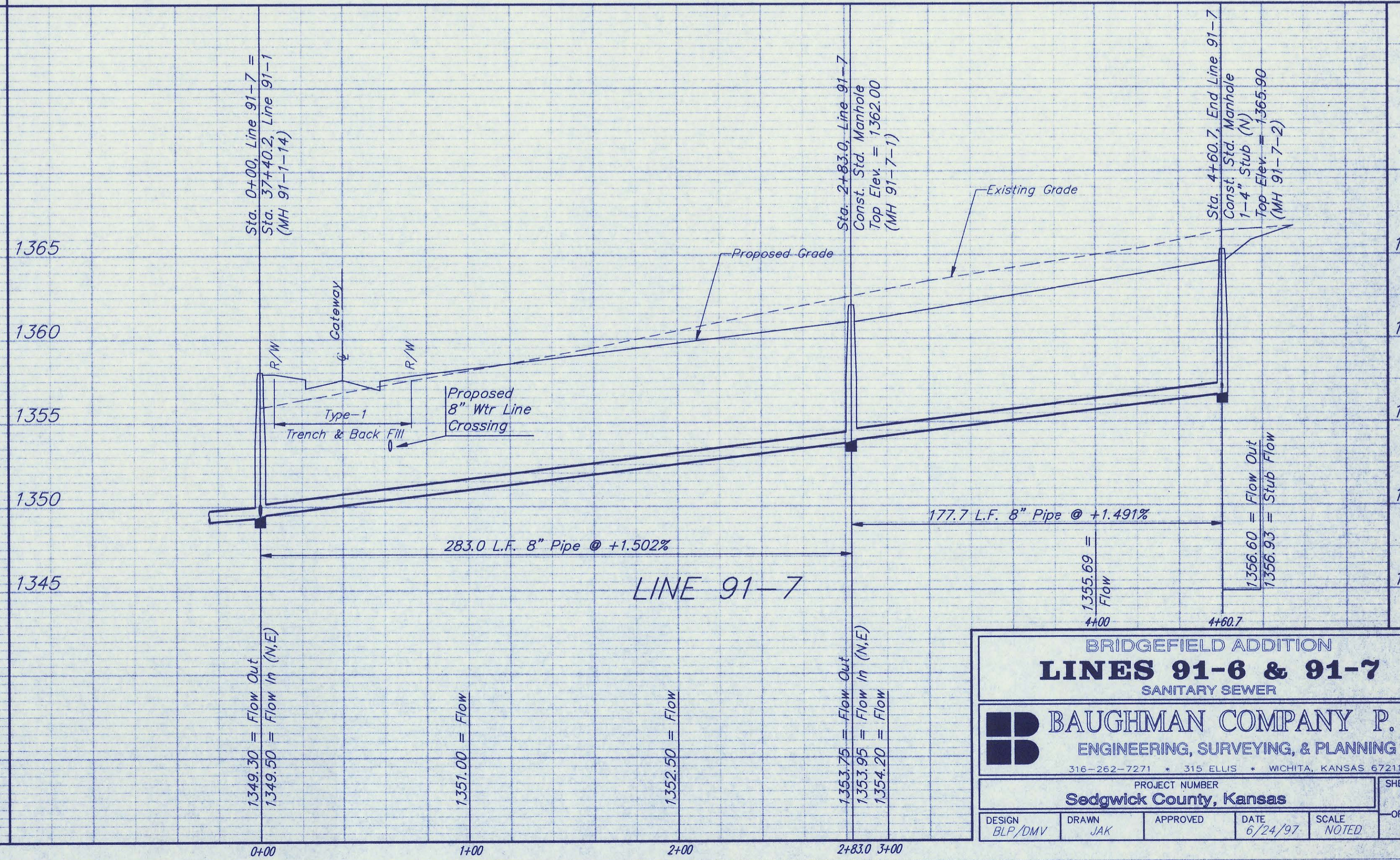
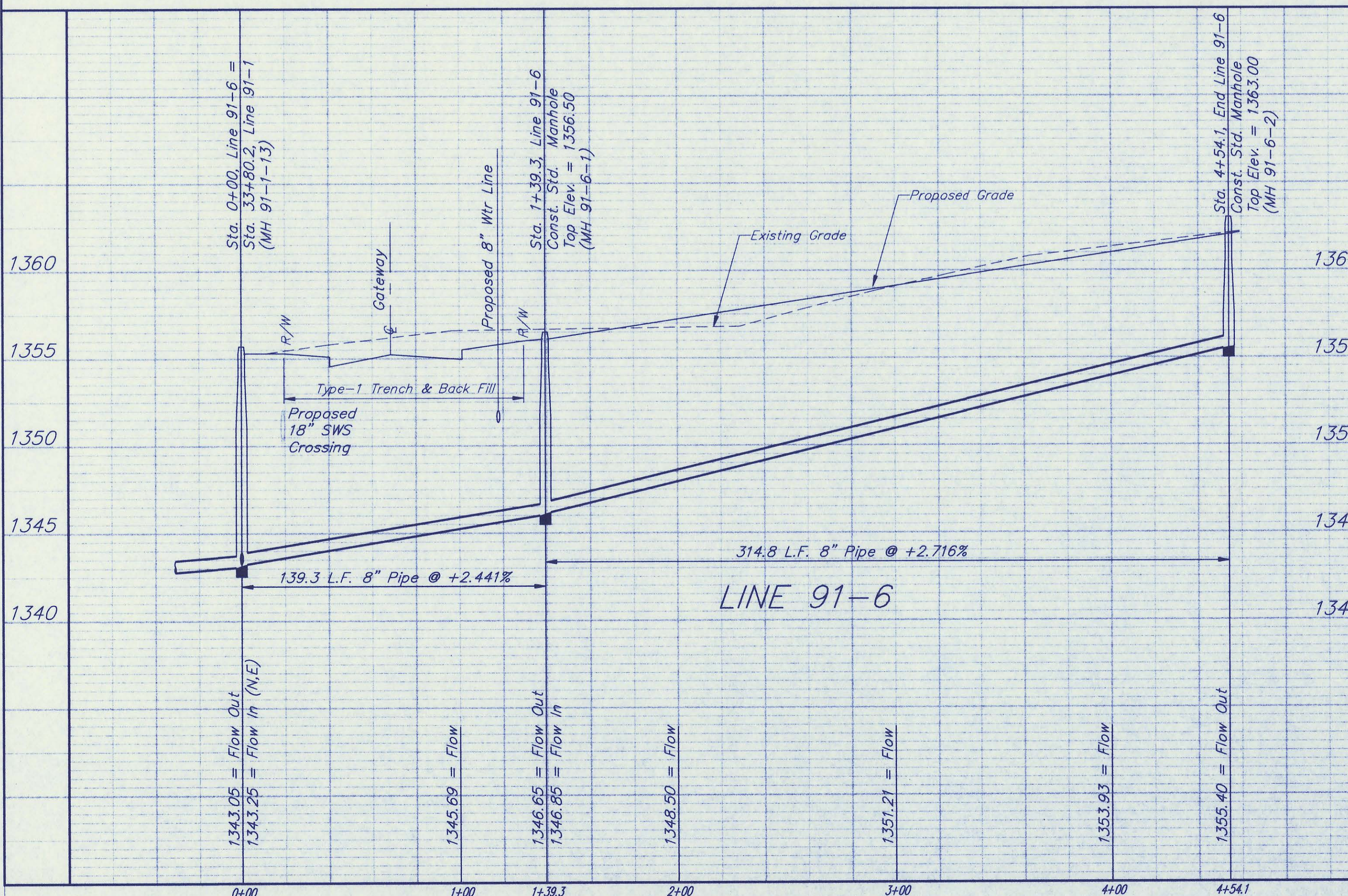
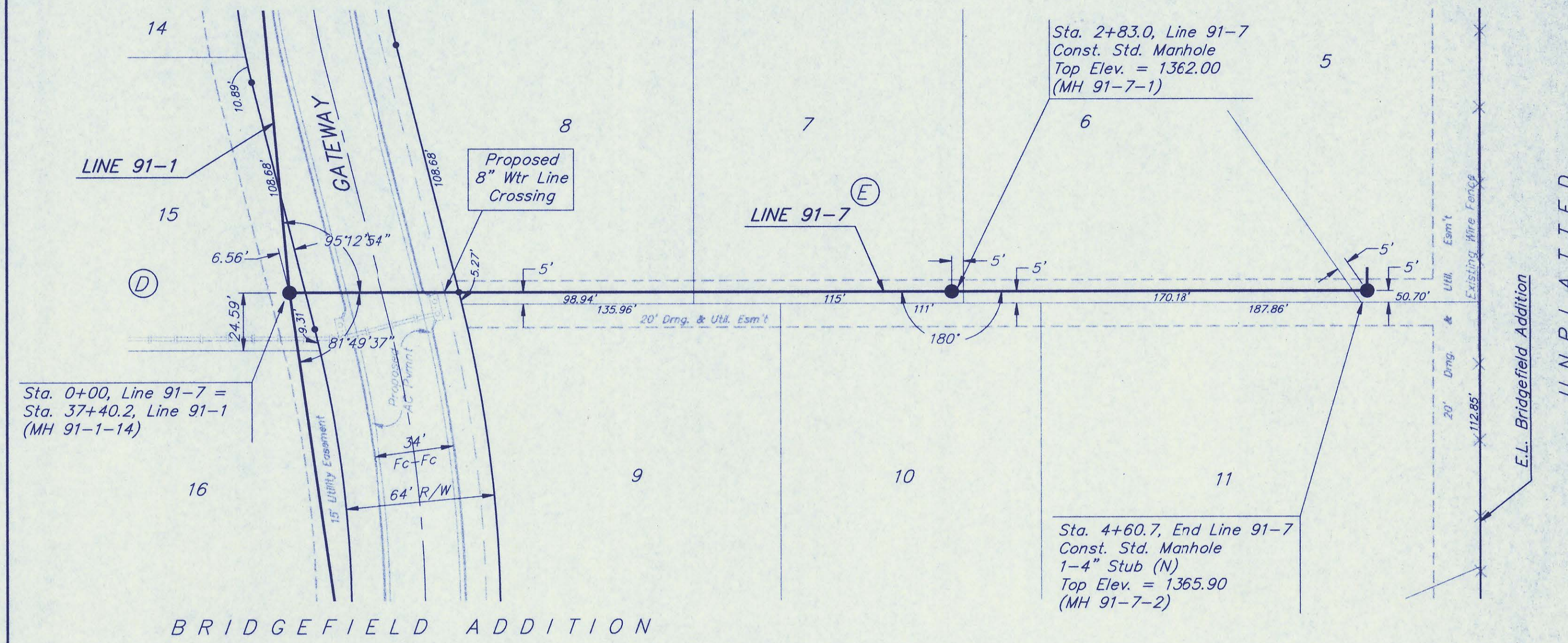
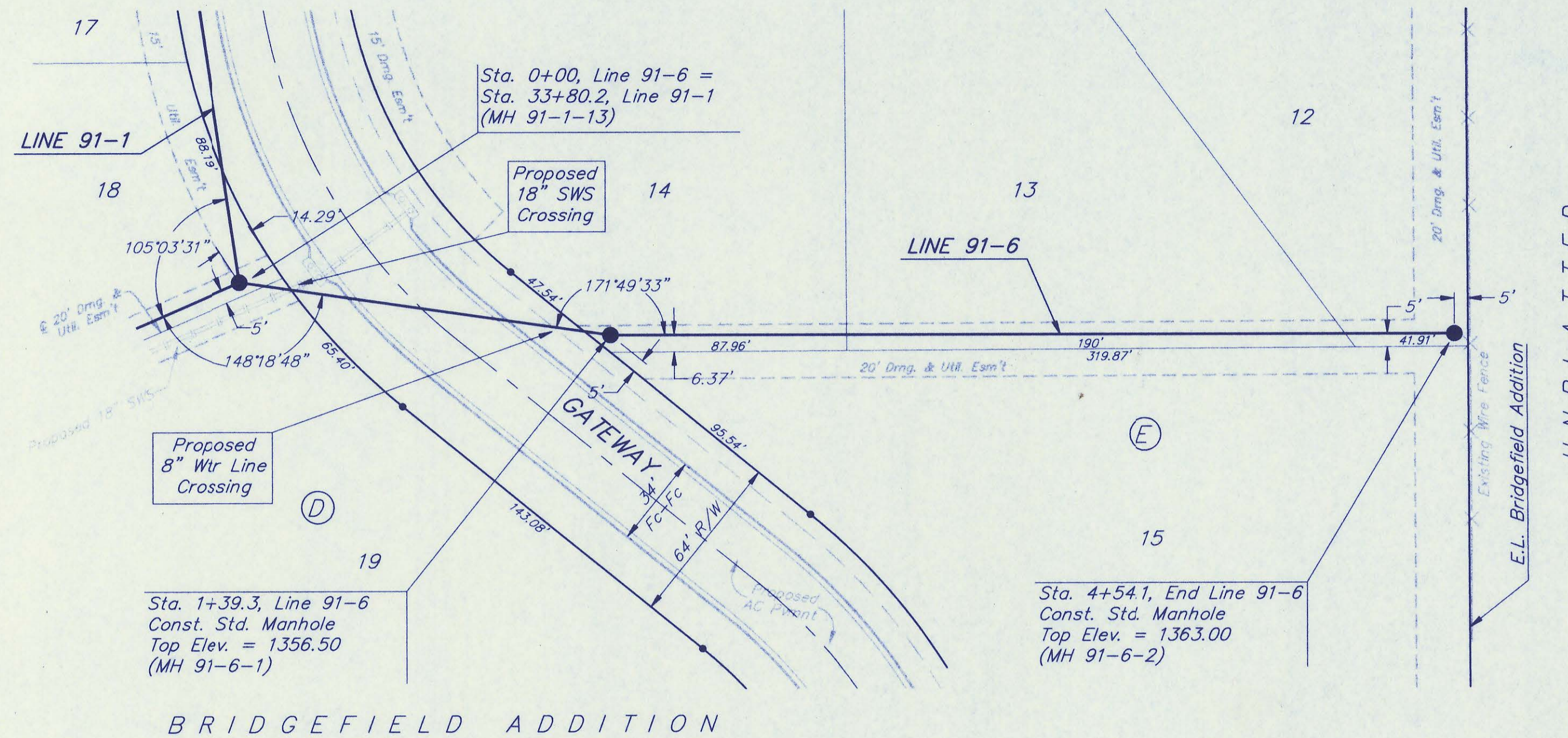
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BRIDGEFIELD ADDITION

BRIDGEFIELD ADDITION



BRIDGEFIELD ADDITION
LINES 91-6 & 91-7
 SANITARY SEWER

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

PROJECT NUMBER
Sedgwick County, Kansas

DESIGN: BLP/DMV DRAWN: JAK APPROVED: DATE: 6/24/97 SCALE: NOTED

SHEET
11
 OF
22

97-05-EG90
 Bridge CSS

Benchmark:

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Sta. 1+79.3, Line 91-8
Const. Std. Manhole
1-4' Stub (S)
Top Elev. = 1350.70
(MH 91-8-2)

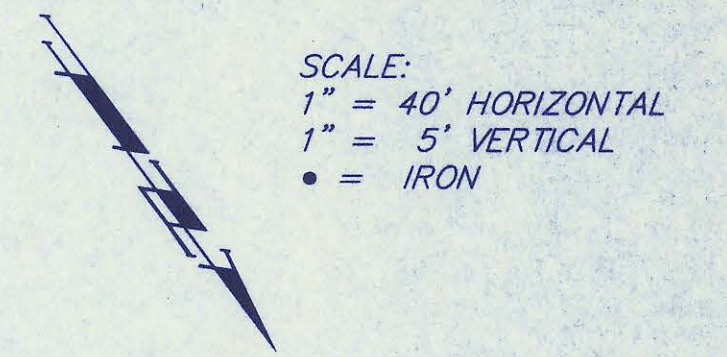
Sta. 4+27.3, Line 91-8
Const. Std. Manhole
Top Elev. = 1354.90
(MH 91-8-3)

Sta. 5+40.9, Line 91-8
Const. Std. Manhole
Top Elev. = 1356.10
(MH 91-8-4)

Sta. 0+00, Begin Line 91-8 =
Sta. 30+57.5, Line 91-1
(MH 91-1-10)

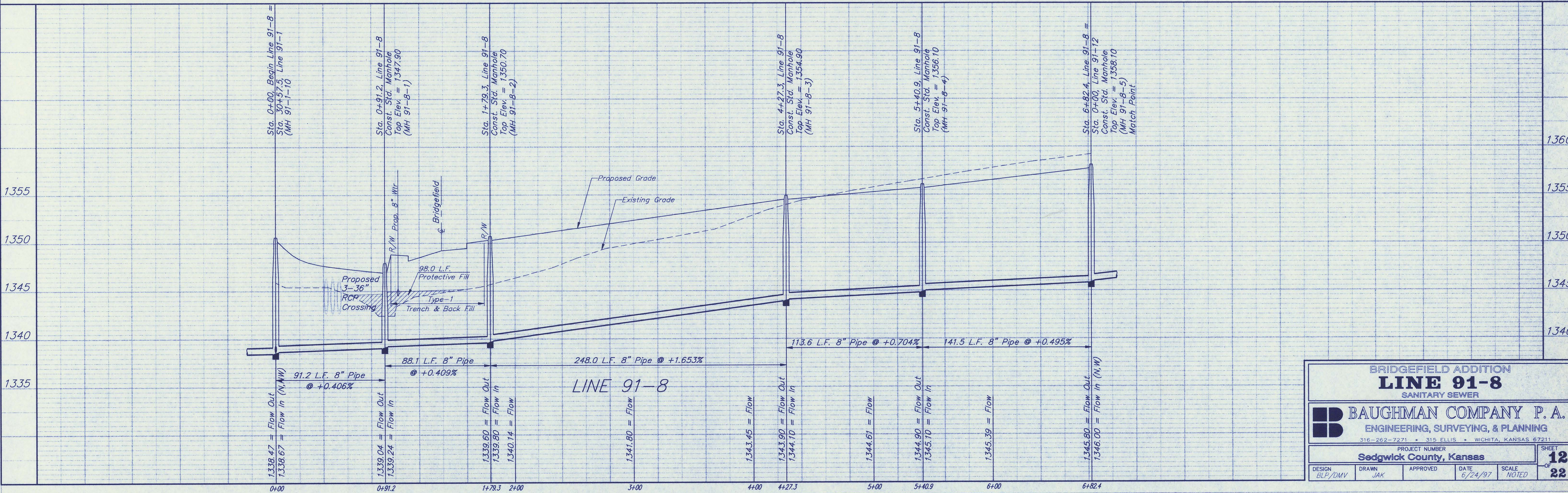
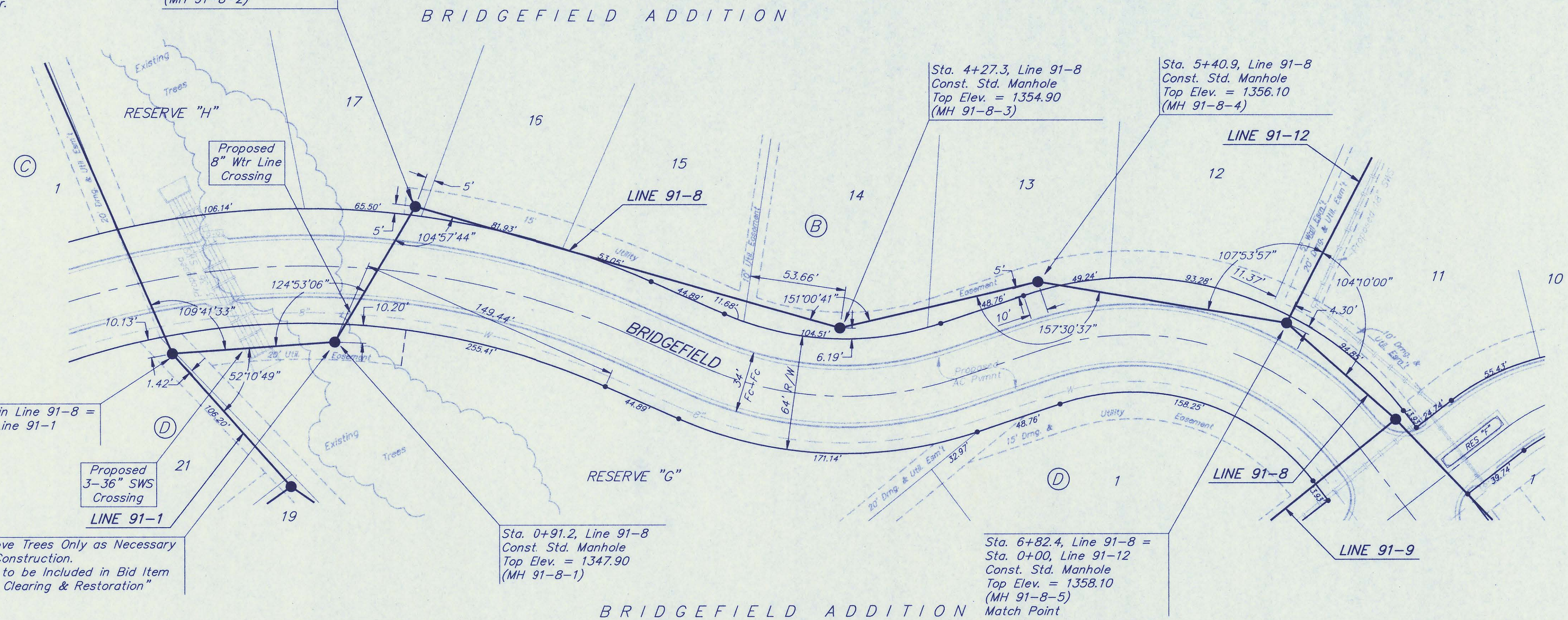
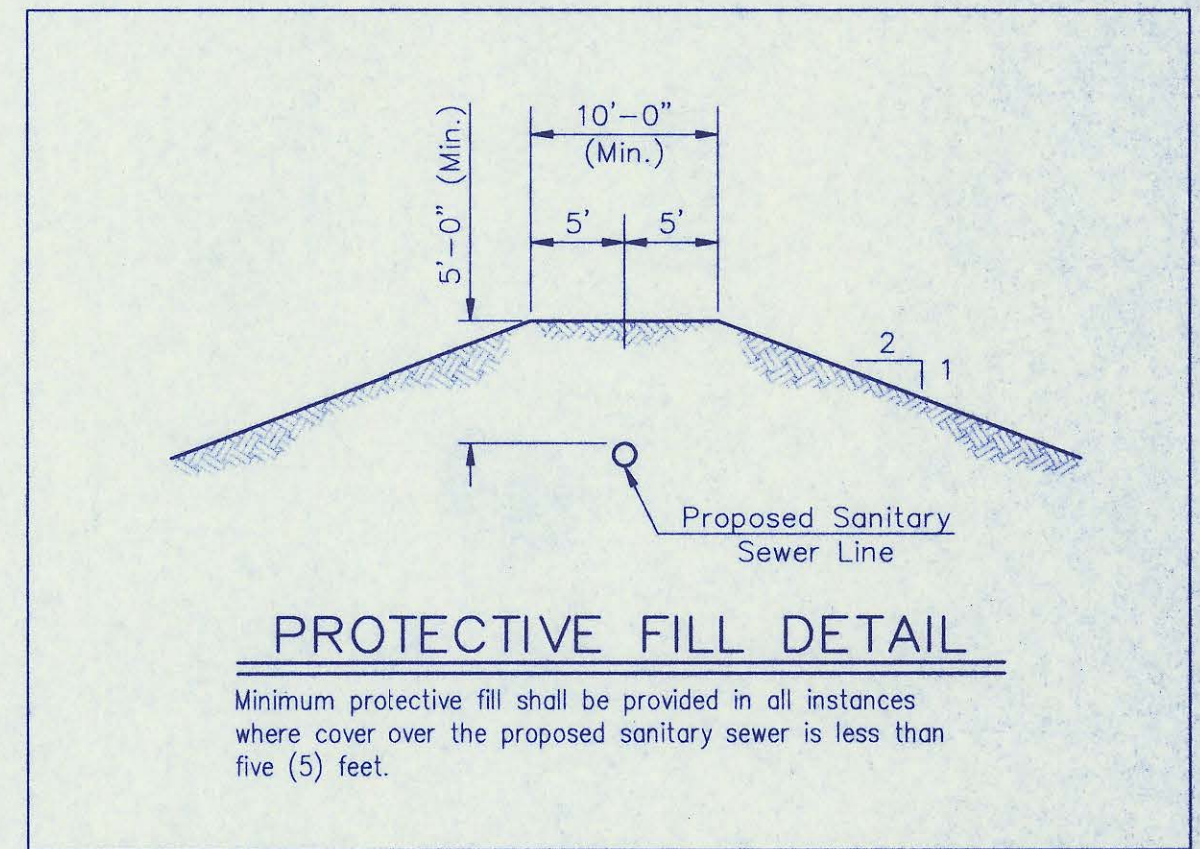
Sta. 0+91.2, Line 91-8
Const. Std. Manhole
Top Elev. = 1347.90
(MH 91-8-1)

Sta. 6+82.4, Line 91-8 =
Sta. 0+00, Line 91-12
Const. Std. Manhole
Top Elev. = 1358.10
(MH 91-8-5)
Match Point



Note: Protective Fill to be
Placed and Compacted
Prior to Sanitary Sewer
Installation.

Remove Trees Only as Necessary
For Construction.
Cost to be Included in Bid Item
"Site Clearing & Restoration"



BRIDGEFIELD ADDITION
LINE 91-8
SANITARY SEWER

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

PROJECT NUMBER
Sedgwick County, Kansas

DESIGN BLP/DMV	DRAWN JAK	APPROVED	DATE 6/24/97
SCALE NOTED			SHEET 12 OF 22

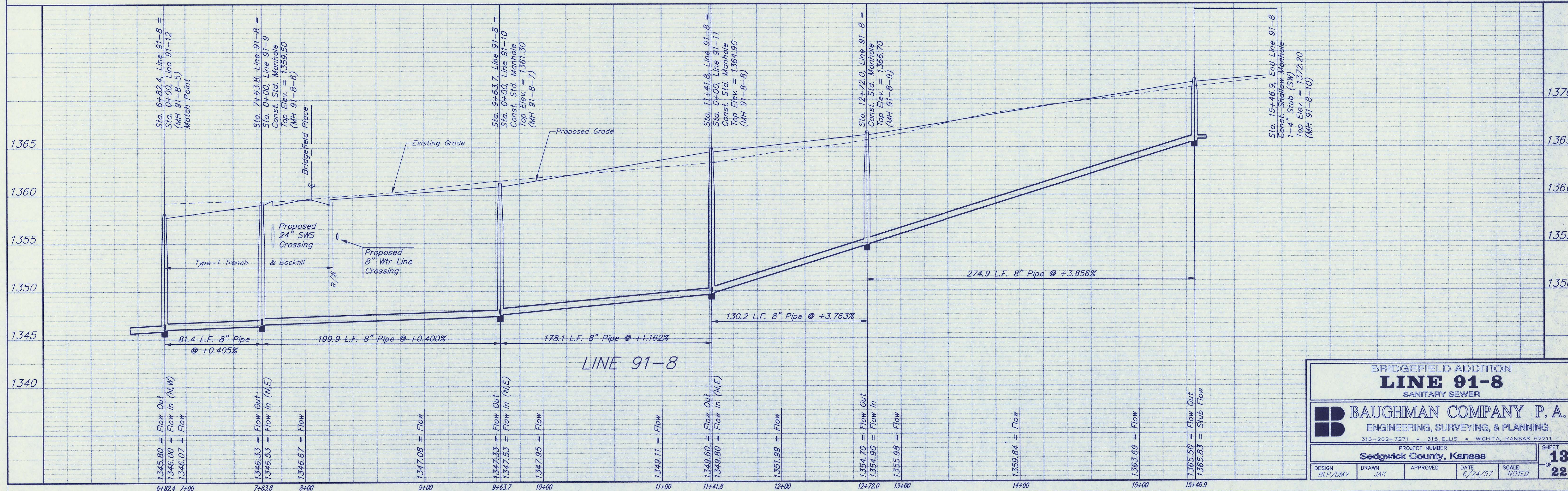
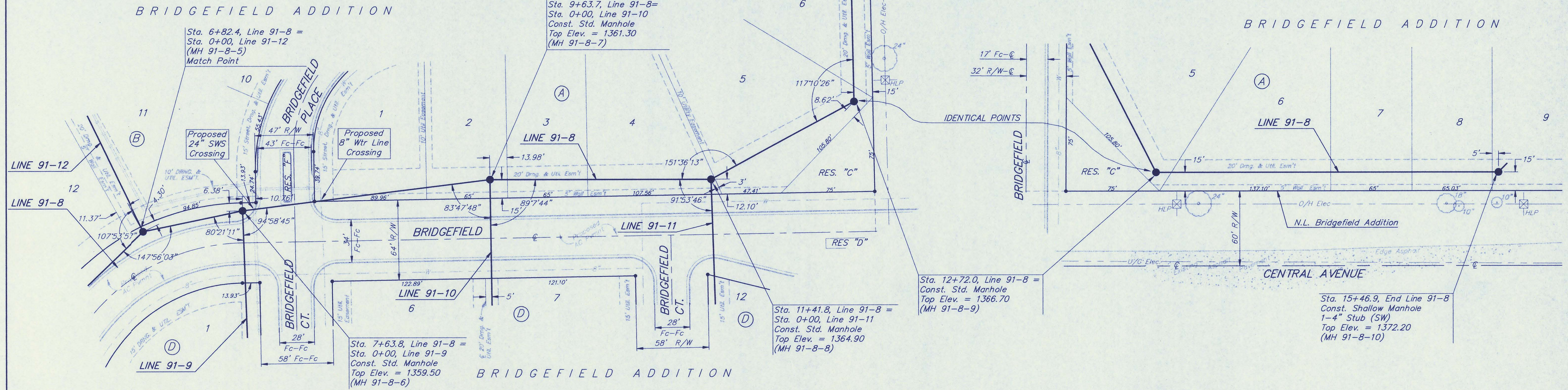
97-05-1690
Bridge 1522

Benchmark:

"□" Cut on Traffic Signal Pole Base
 Located at the SE Corner 127th & Central.
 Elevation = 1368.50 M.S.L.

RR Spike on S. Side of H.L.P. Located
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SCALE:
 1" = 40' HORIZONTAL
 1" = 5' VERTICAL
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BRIDGEFIELD ADDITION
LINE 91-8
 SANITARY SEWER

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DESIGN BLP/DMV	DRAWN JAK	APPROVED	DATE 6/24/97
			SCALE NOTED

SHEET
13
 OF
22

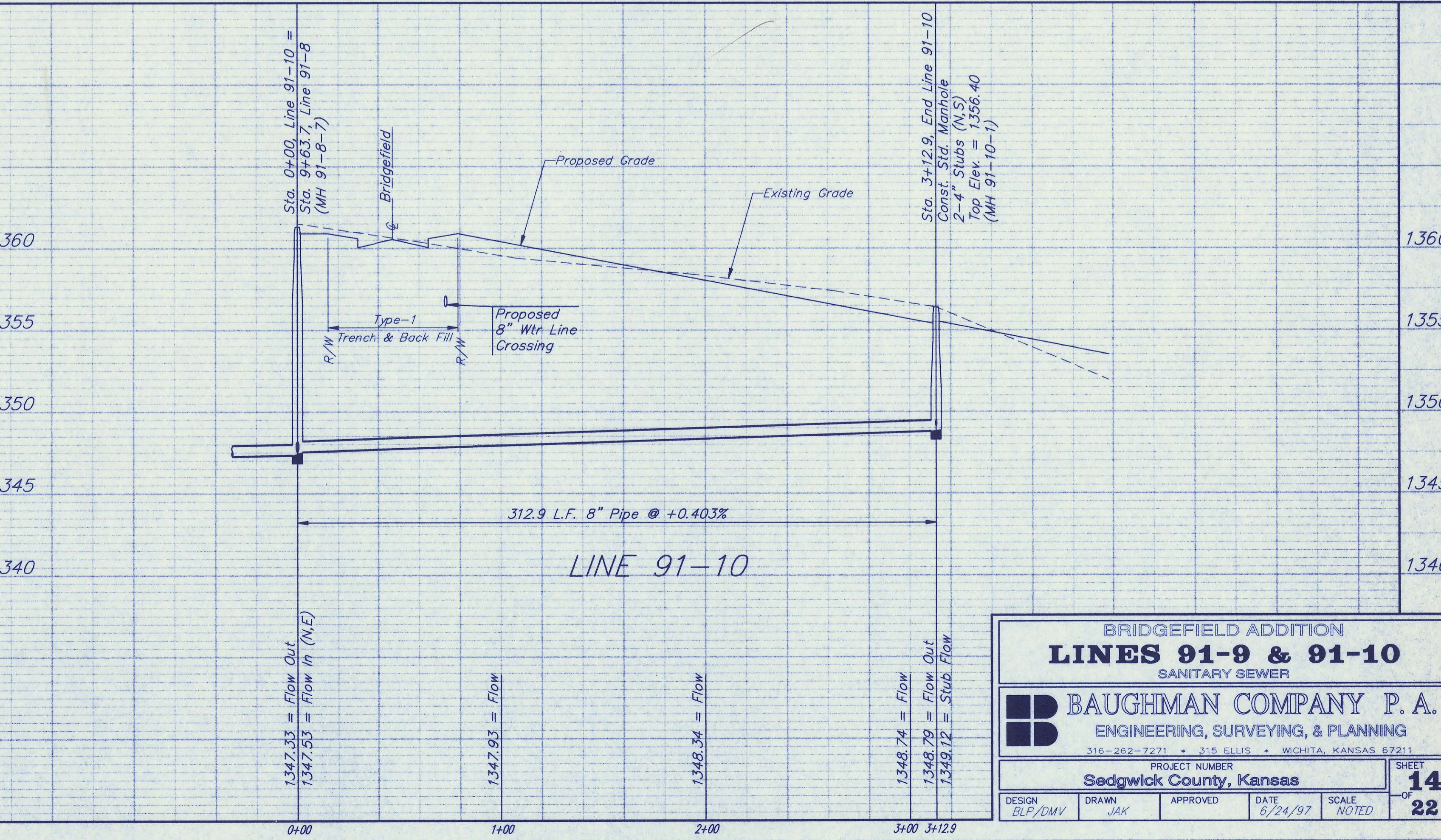
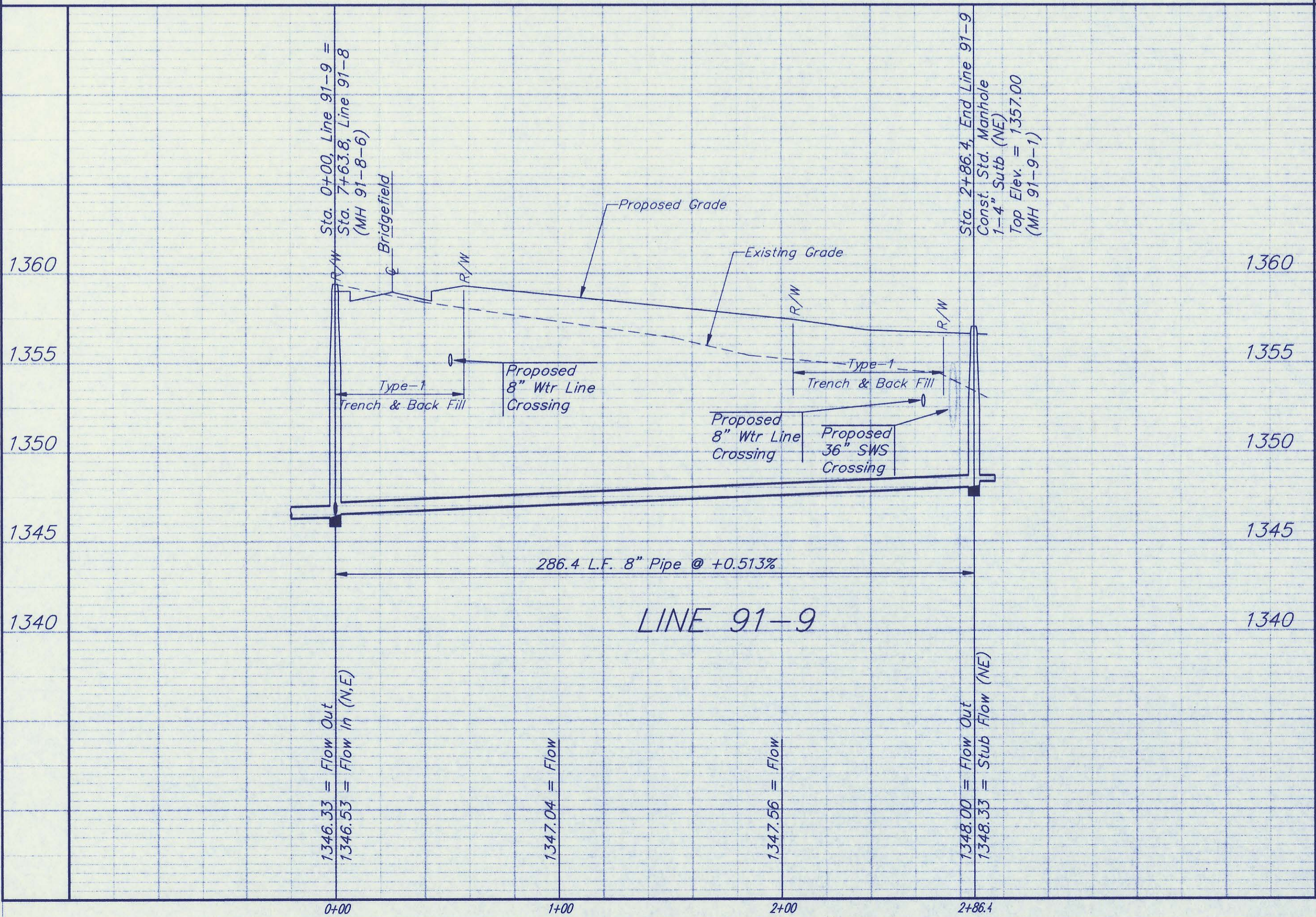
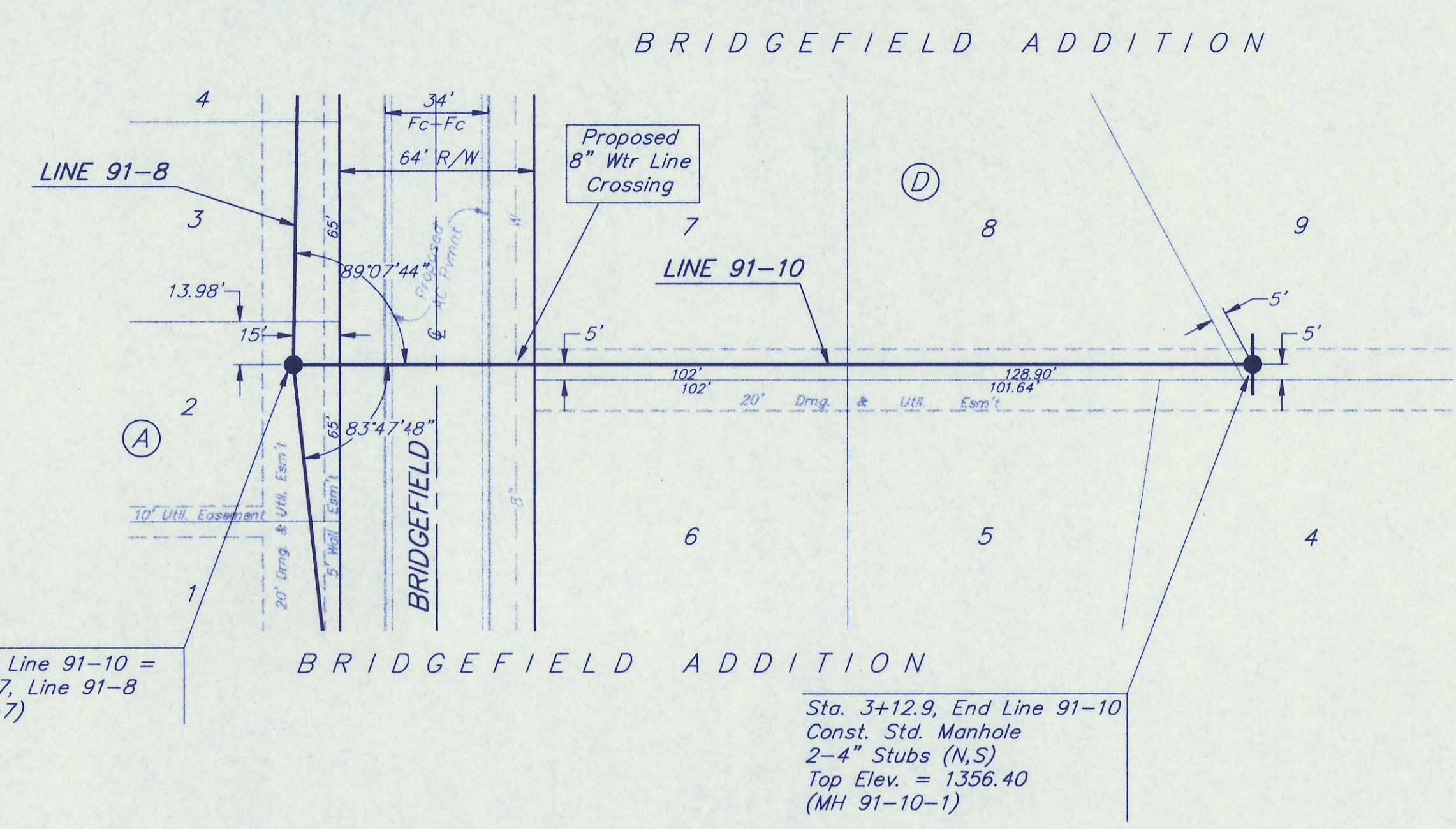
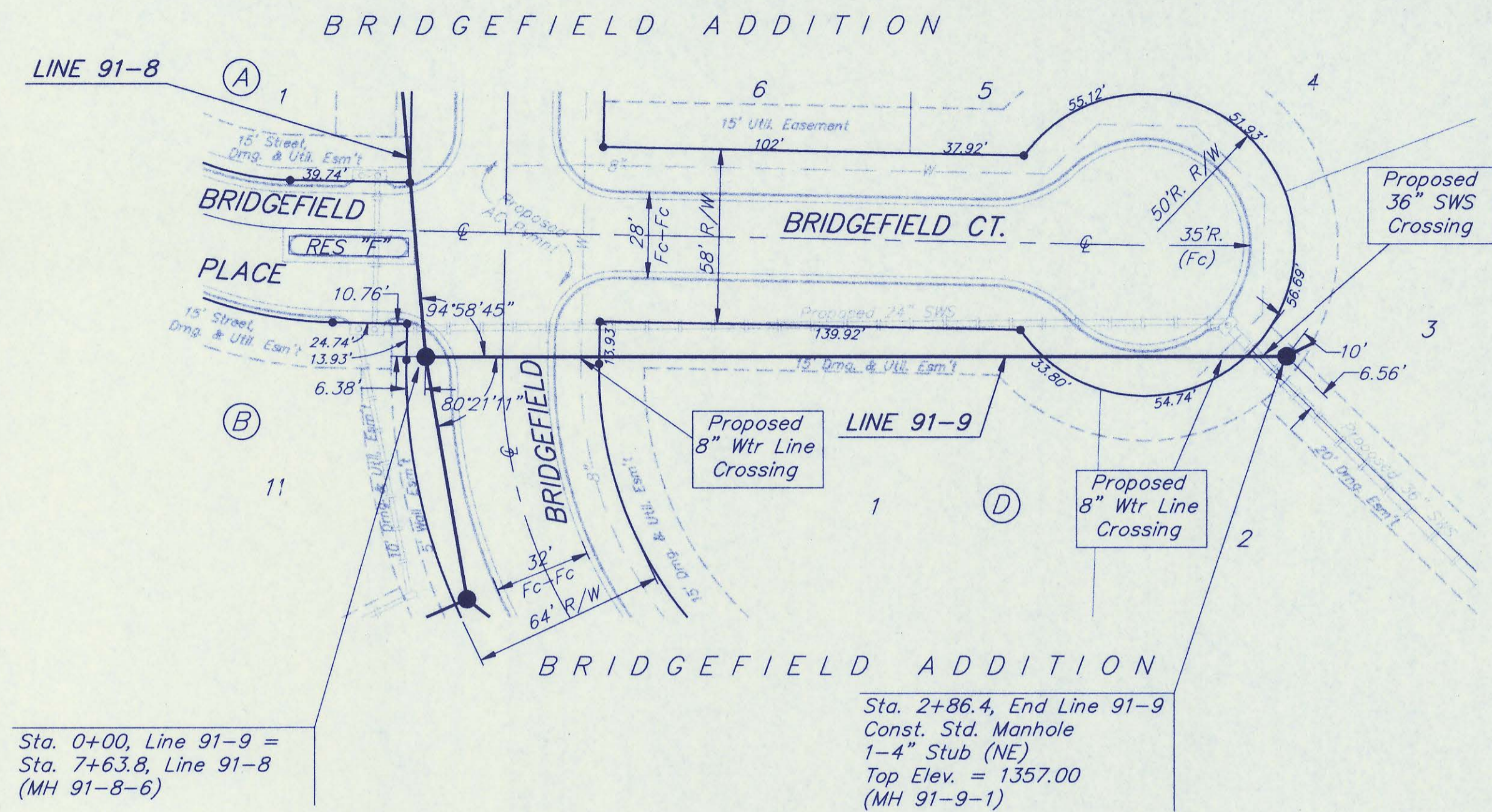
97-05-1660
 Bridge SS7

Benchmark:

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 275' West & 50' South of N 1/4 Cor.
 Sec 23-27-2E.
 Elevation = 1366.34 M.S.L.

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



BRIDGEFIELD ADDITION
LINES 91-9 & 91-10
 SANITARY SEWER

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

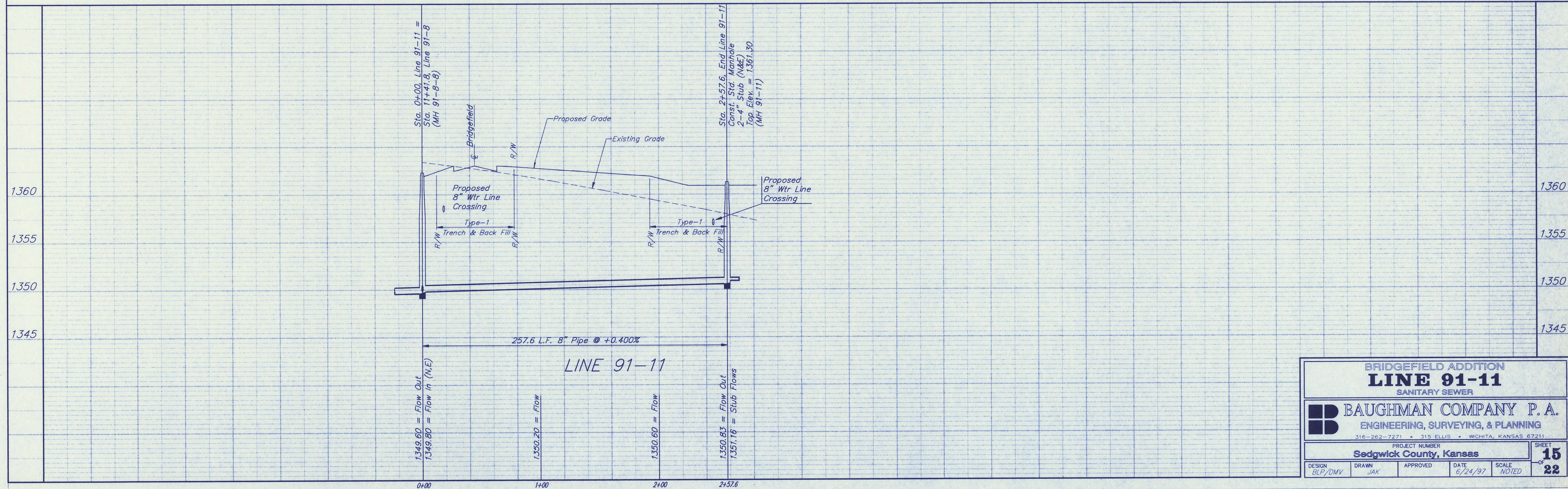
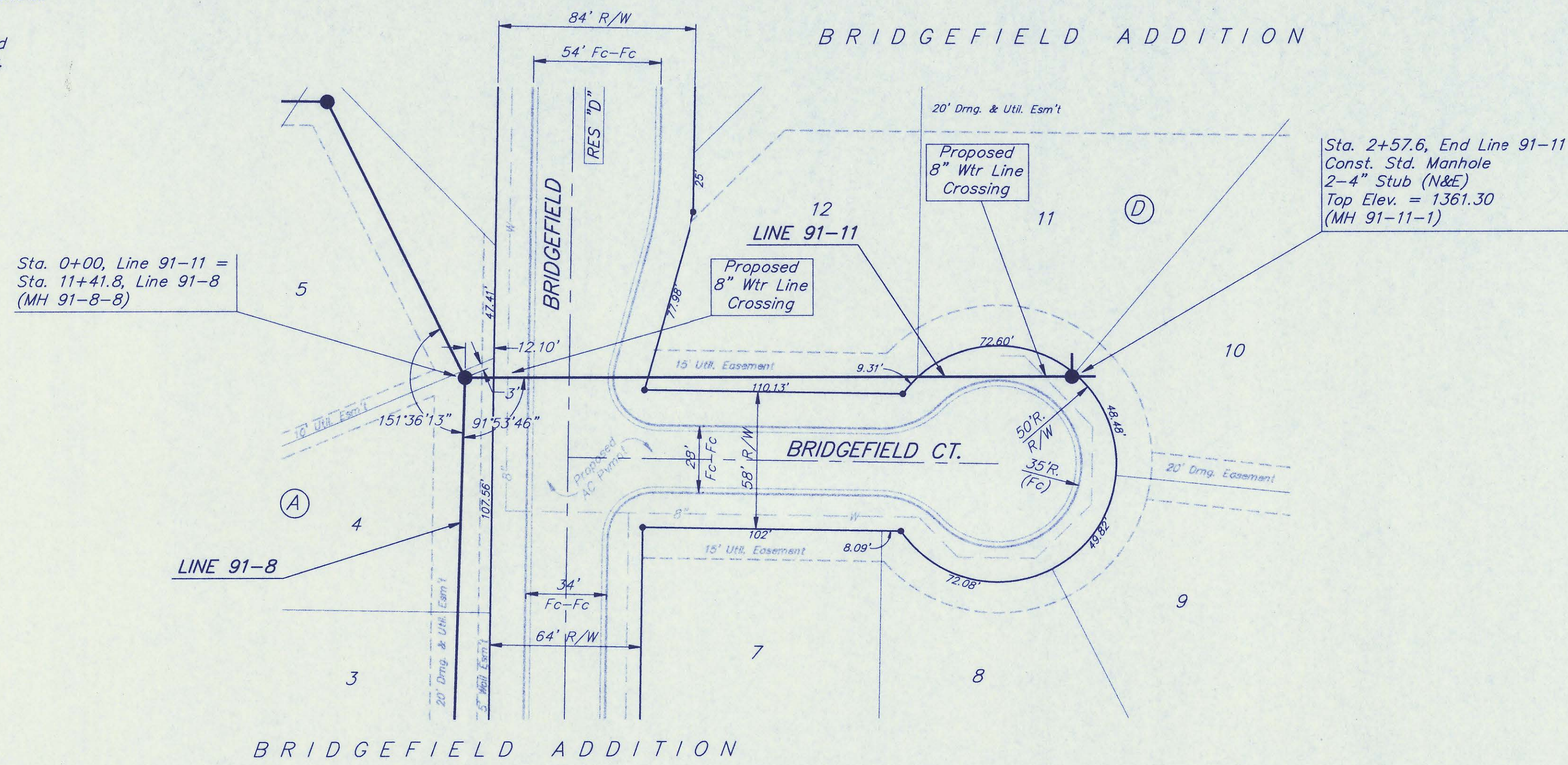
DESIGN BLP/DMV	DRAWN JAK	APPROVED	DATE 6/24/97	SCALE NOTED	SHEET 14 OF 22
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PROJECT NUMBER
Sedgwick County, Kansas

Benchmark:

"□" Cut on Traffic Signal Pole Base
 Located at the SE Corner 127th & Central.
 Elevation = 1368.50 M.S.L.
 RR Spike on S. Side of H.L.P. Located
 275' West & 50' South of N 1/4 Cor.
 Sec 23-27-2E.
 Elevation = 1366.34 M.S.L.

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



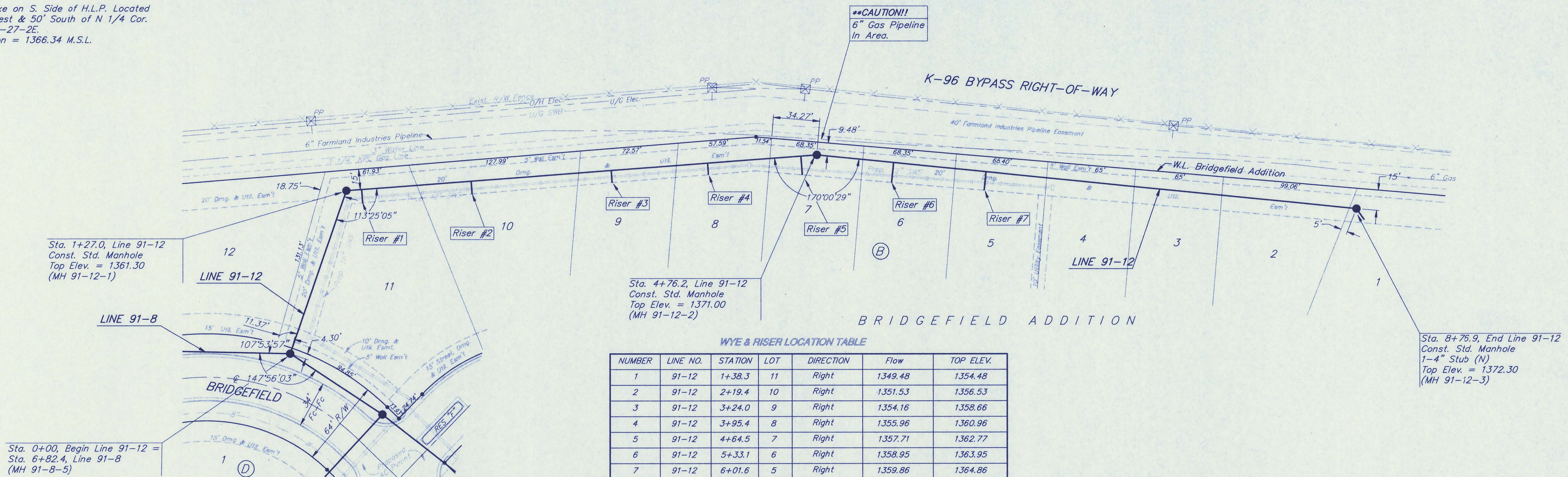
BRIDGEFIELD ADDITION				
LINE 91-11				
SANITARY SEWER				
BAUGHMAN COMPANY P. A.				
ENGINEERING, SURVEYING, & PLANNING				
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211				
PROJECT NUMBER Sedgwick County, Kansas				SHEET 15
DESIGN BLP/DMV	DRAWN JAK	APPROVED	DATE 6/24/97	SCALE NOTED
				OF 22

Benchmark:

"□" Cut on Traffic Signal Pole Base
 Located at the SE Corner 127th & Central.
 Elevation = 1368.50 M.S.L.

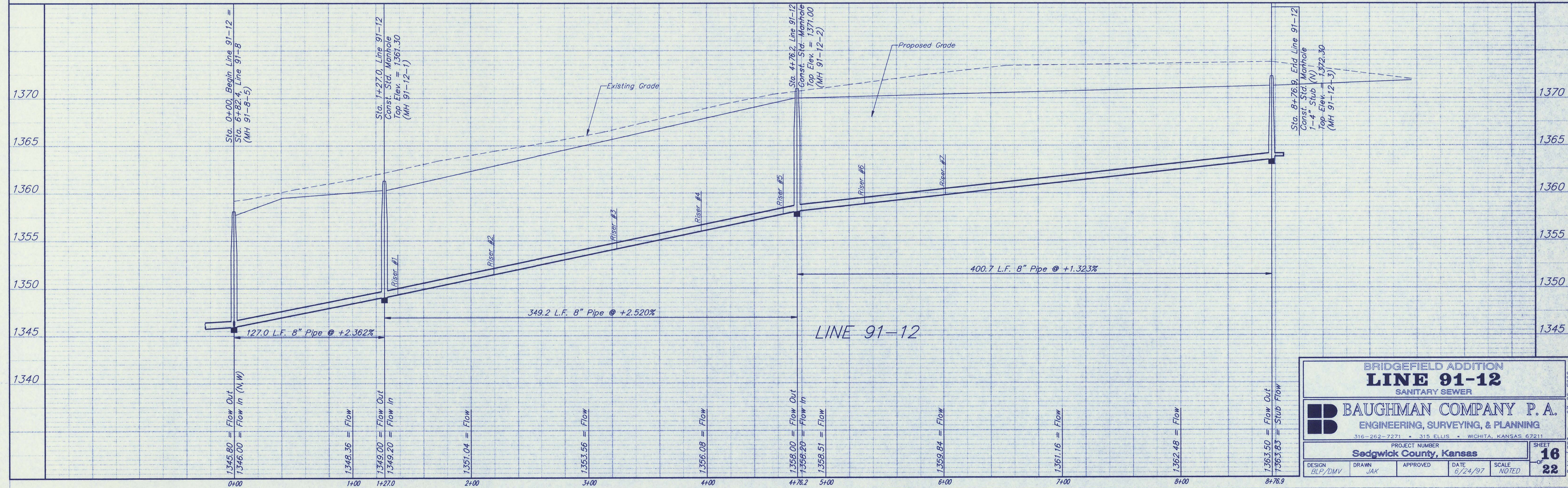
RR Spike on S. Side of H.L.P. Located
 275' West & 50' South of N 1/4 Cor.
 Sec 23-27-2E.
 Elevation = 1366.34 M.S.L.

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



WYE & RISER LOCATION TABLE

NUMBER	LINE NO.	STATION	LOT	DIRECTION	Flow	TOP ELEV.
1	91-12	1+38.3	11	Right	1349.48	1354.48
2	91-12	2+19.4	10	Right	1351.53	1356.53
3	91-12	3+24.0	9	Right	1354.16	1358.66
4	91-12	3+95.4	8	Right	1355.96	1360.96
5	91-12	4+64.5	7	Right	1357.71	1362.77
6	91-12	5+33.1	6	Right	1358.95	1363.95
7	91-12	6+01.6	5	Right	1359.86	1364.86



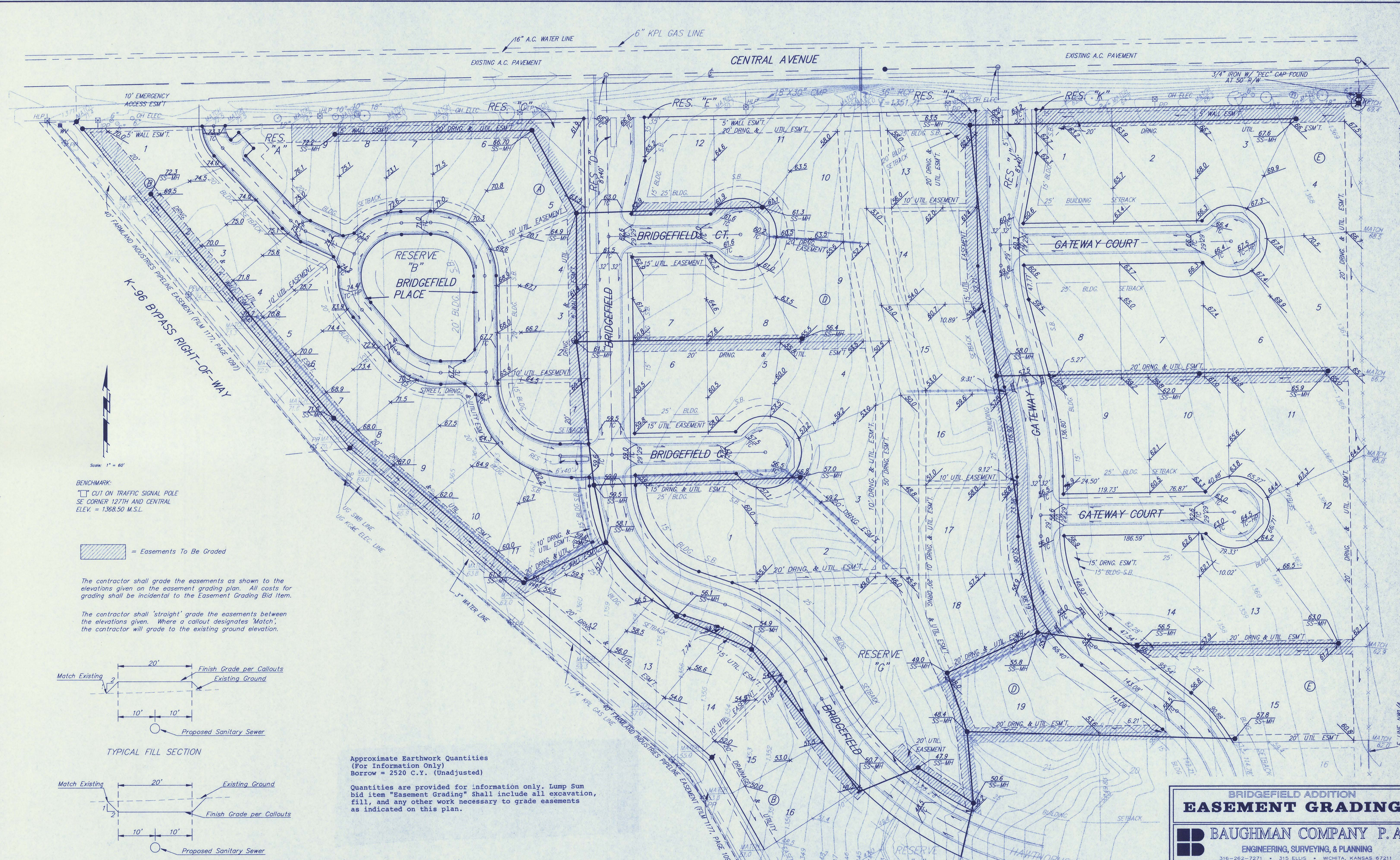
BRIDGEFIELD ADDITION
LINE 91-12
 SANITARY SEWER

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

PROJECT NUMBER
Sedgwick County, Kansas

DESIGN BLP/DMV	DRAWN JAK	APPROVED	DATE 6/24/97	SCALE NOTED	SHEET 16 OF 22
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97-05-2690
 Bridge, CSS



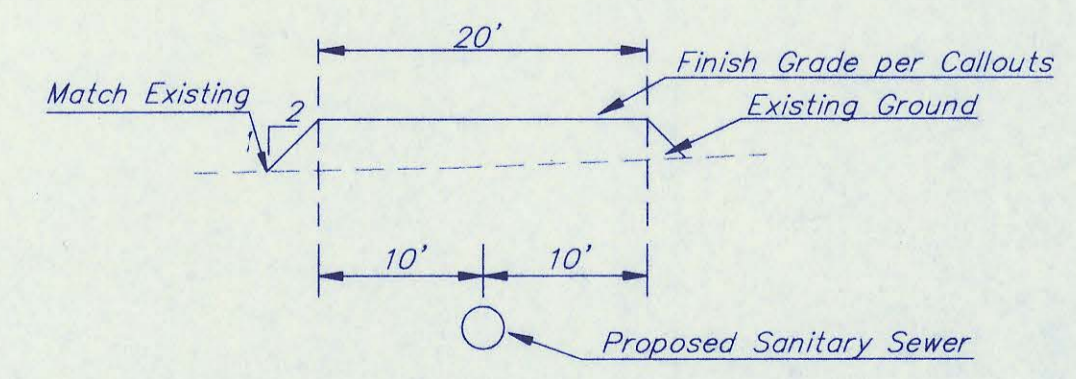
Scale: 1" = 60'

BENCHMARK:
 □ CUT ON TRAFFIC SIGNAL POLE
 SE CORNER 127TH AND CENTRAL
 ELEV. = 1368.50 M.S.L.

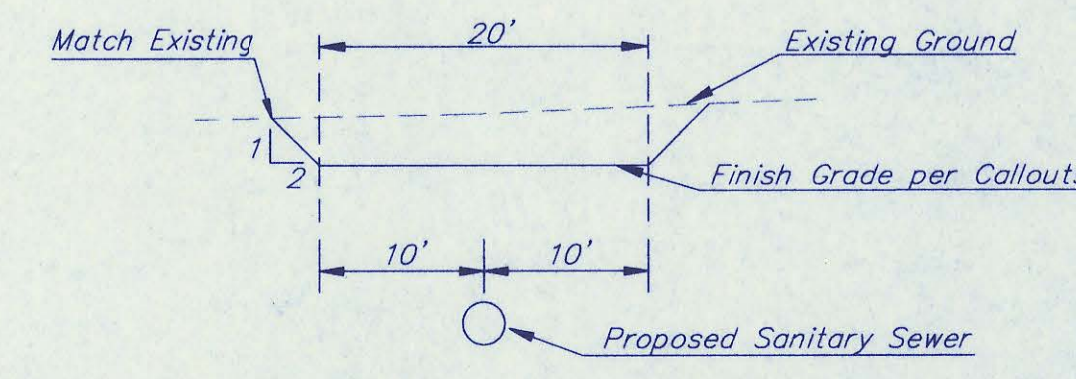
= Easements To Be Graded

The contractor shall grade the easements as shown to the elevations given on the easement grading plan. All costs for grading shall be incidental to the Easement Grading Bid Item.

The contractor shall 'straight' grade the easements between the elevations given. Where a callout designates 'Match', the contractor will grade to the existing ground elevation.



TYPICAL FILL SECTION




TYPICAL CUT SECTION

Approximate Earthwork Quantities
 (For Information Only)
 Borrow = 2520 C.Y. (Unadjusted)
 Quantities are provided for information only. Lump Sum bid item "Easement Grading" shall include all excavation, fill, and any other work necessary to grade easements as indicated on this plan.

BRIDGEFIELD ADDITION			
EASEMENT GRADING			
BAUGHMAN COMPANY P. A.			
ENGINEERING, SURVEYING & PLANNING			
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER		SHEET	
Sedgwick County, Kansas		17	
DESIGN	DRAWN	APPROVED	DATE
BLP/DMV	JAK		6/24/97
		SCALE 1" = 60'	
		22	

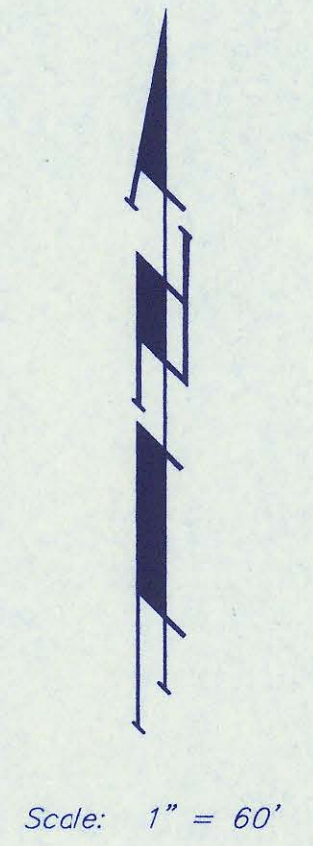
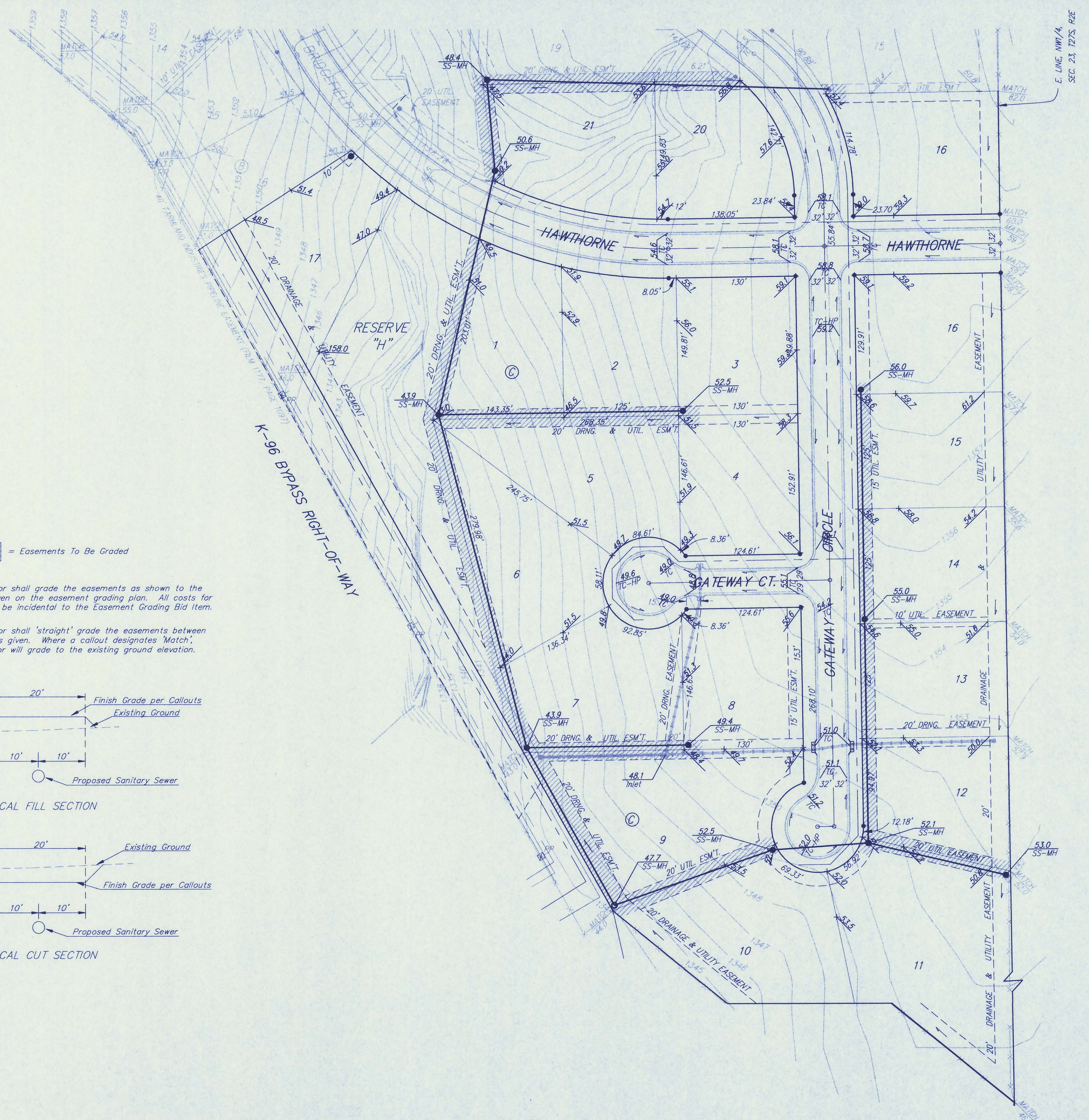
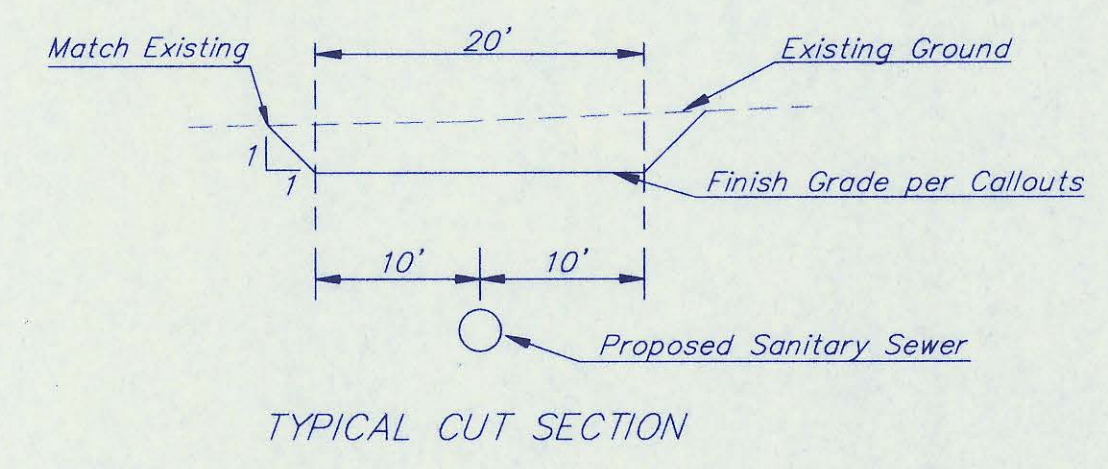
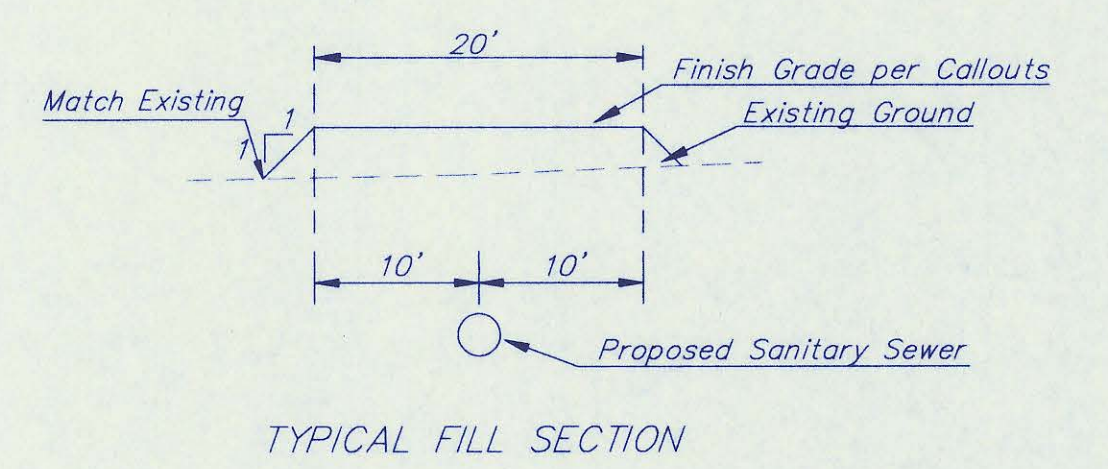
NE COR. NW 1/4 SEC. 23, T-27-S, R-2-E

E. LINE, NW 1/4 SEC. 23, T27S, R2E

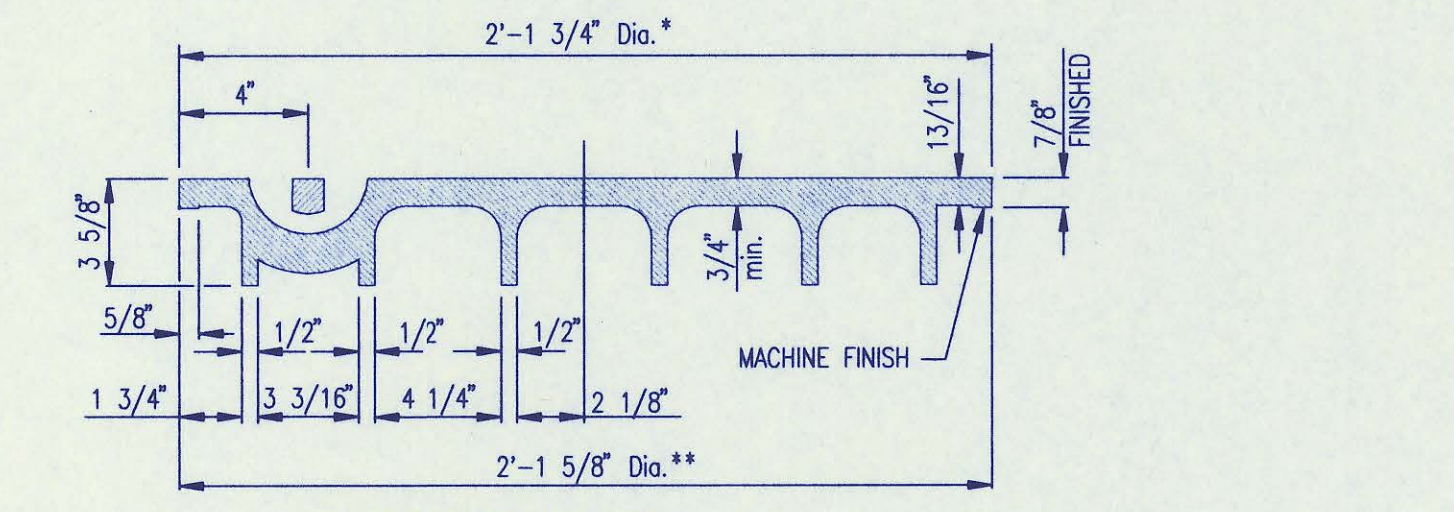
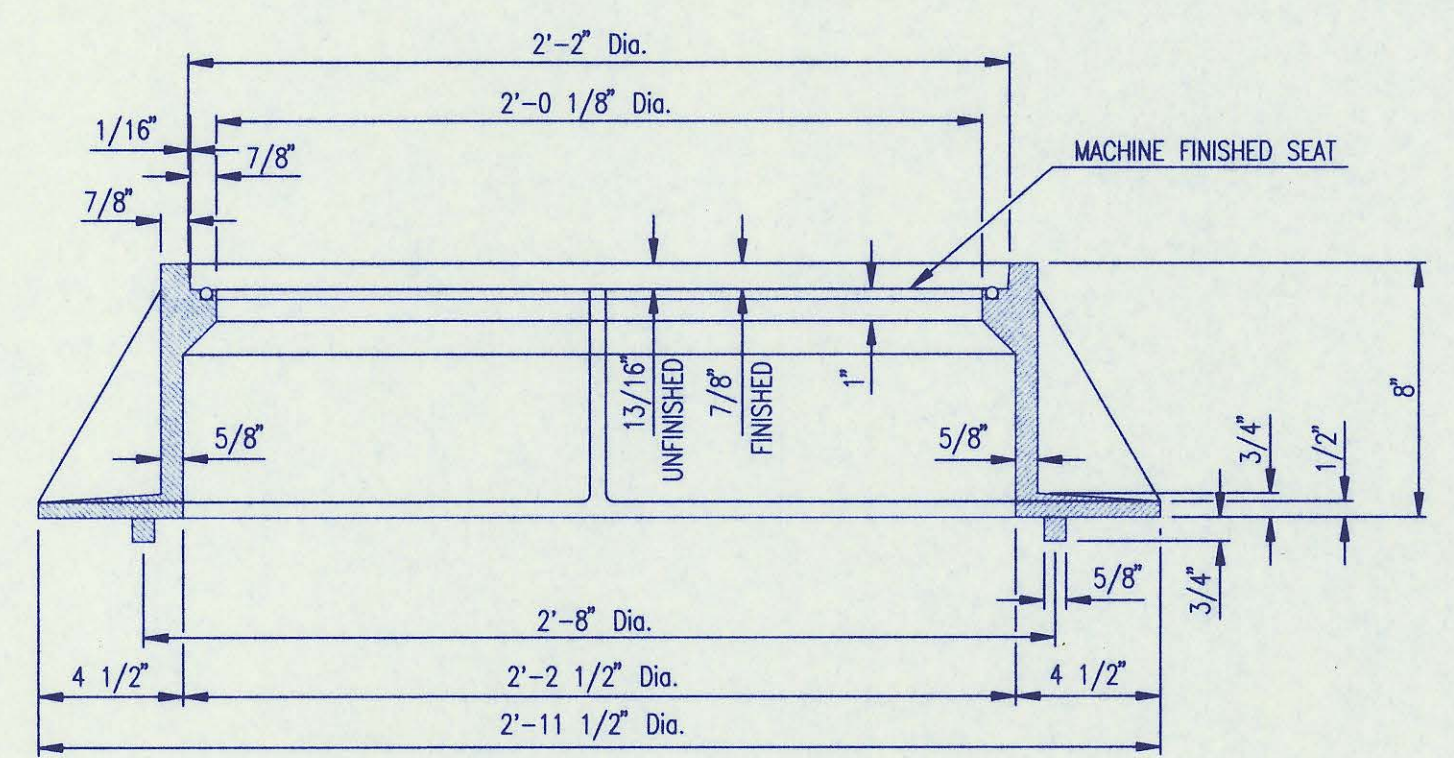
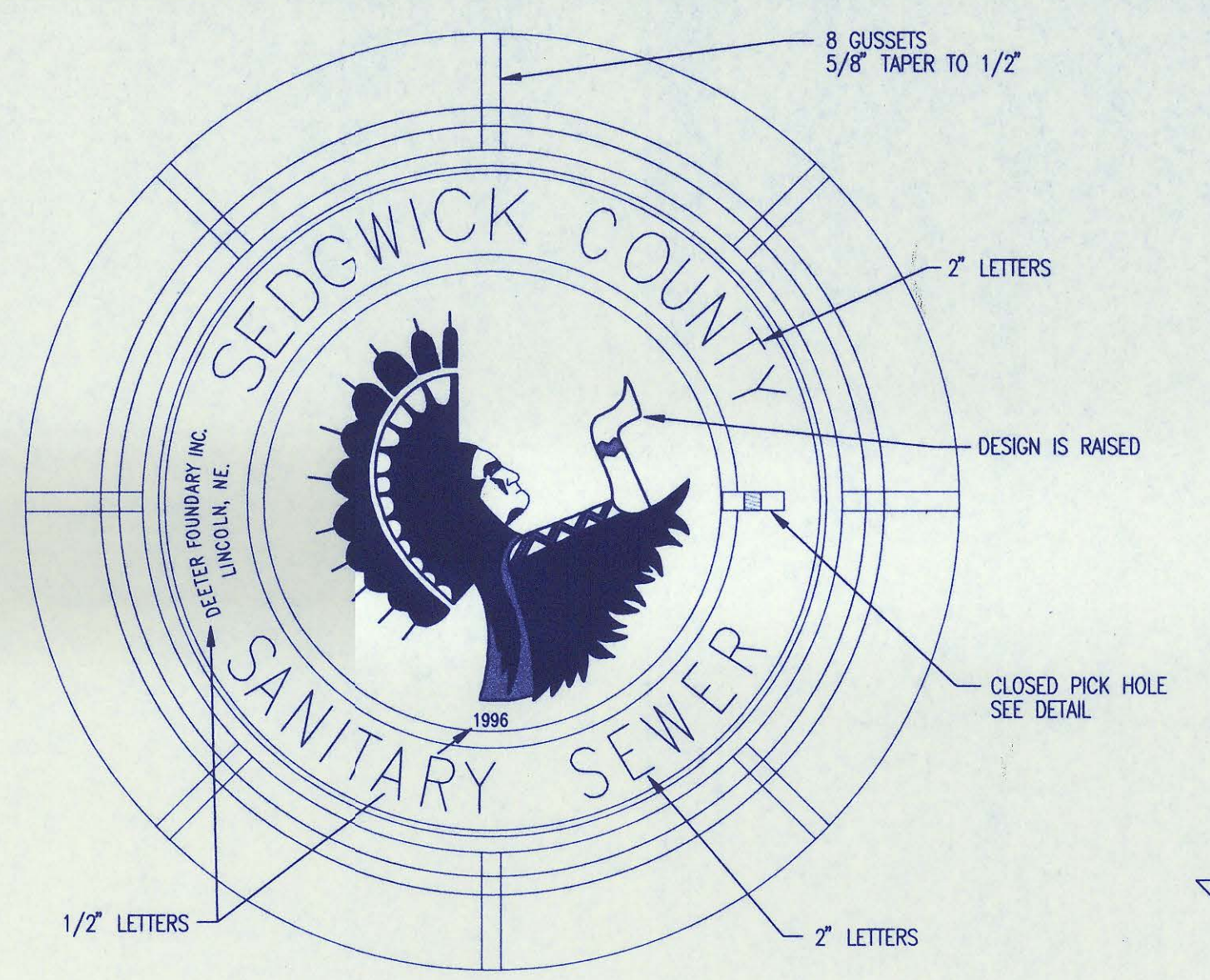
 = Easements To Be Graded

The contractor shall grade the easements as shown to the elevations given on the easement grading plan. All costs for grading shall be incidental to the Easement Grading Bid Item.

The contractor shall 'straight' grade the easements between the elevations given. Where a callout designates 'Match', the contractor will grade to the existing ground elevation.

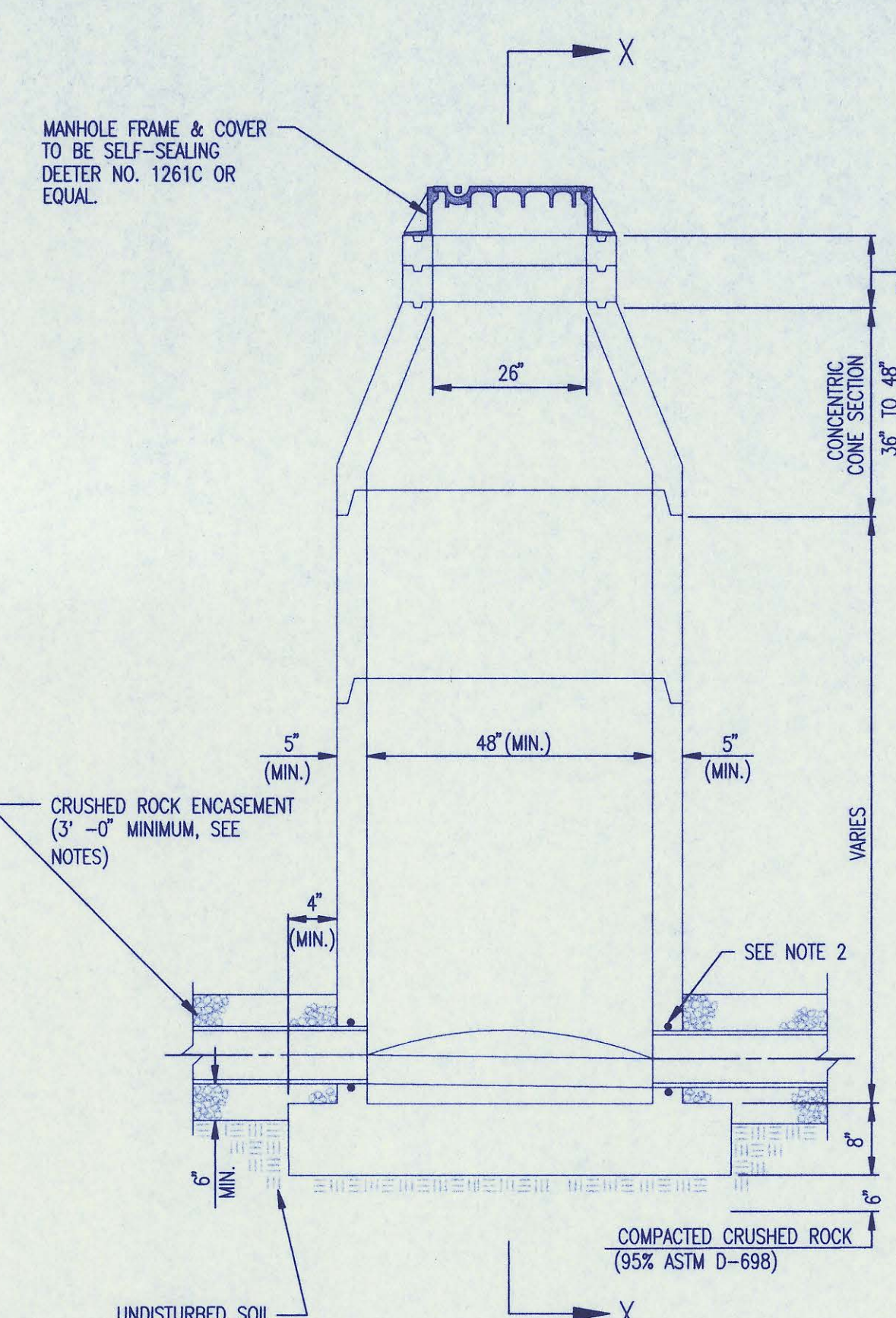
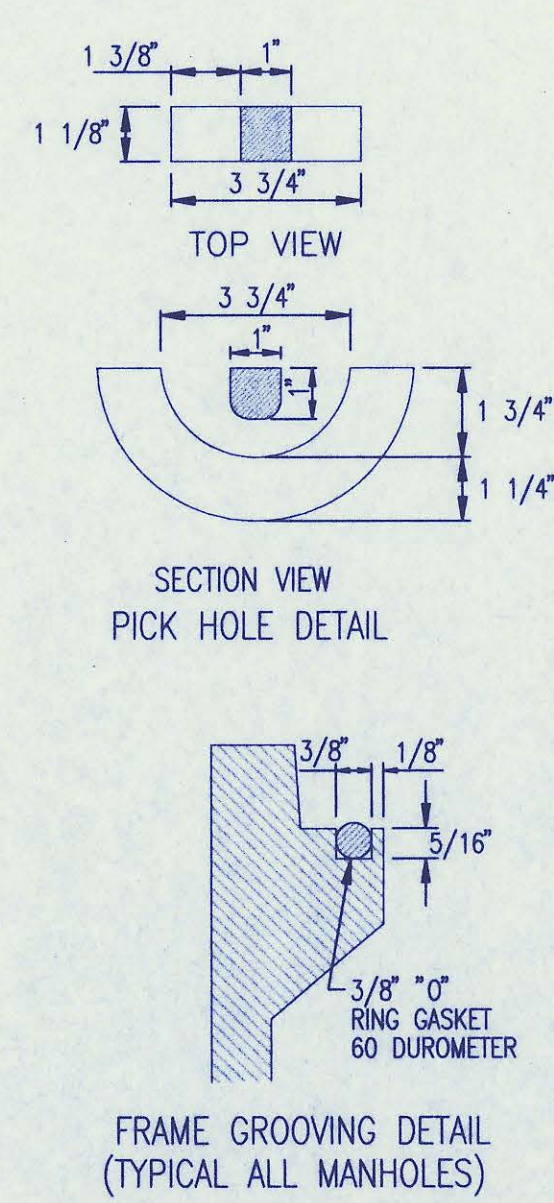


BRIDGEFIELD ADDITION EASEMENT GRADING			
BAUGHMAN COMPANY P. A. ENGINEERING, SURVEYING, & PLANNING 316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER Sedgwick County, Kansas		SHEET 18 OF 22	
DESIGN BLP/DMV	DRAWN JAK	APPROVED	DATE 6/24/97
		SCALE 1" = 60'	

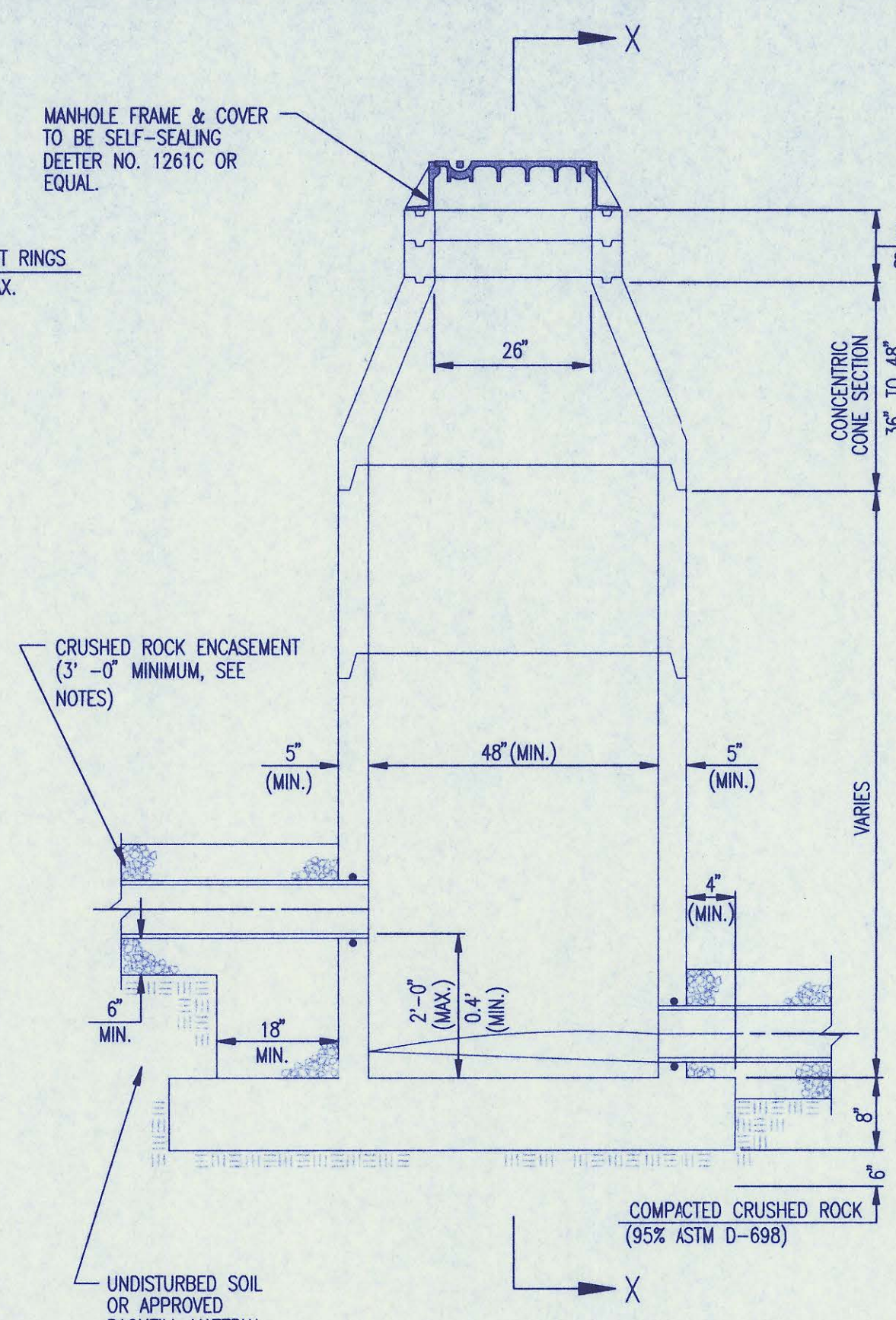


MANHOLE FRAME AND COVER
(TOTAL WEIGHT = 430 LBS.)

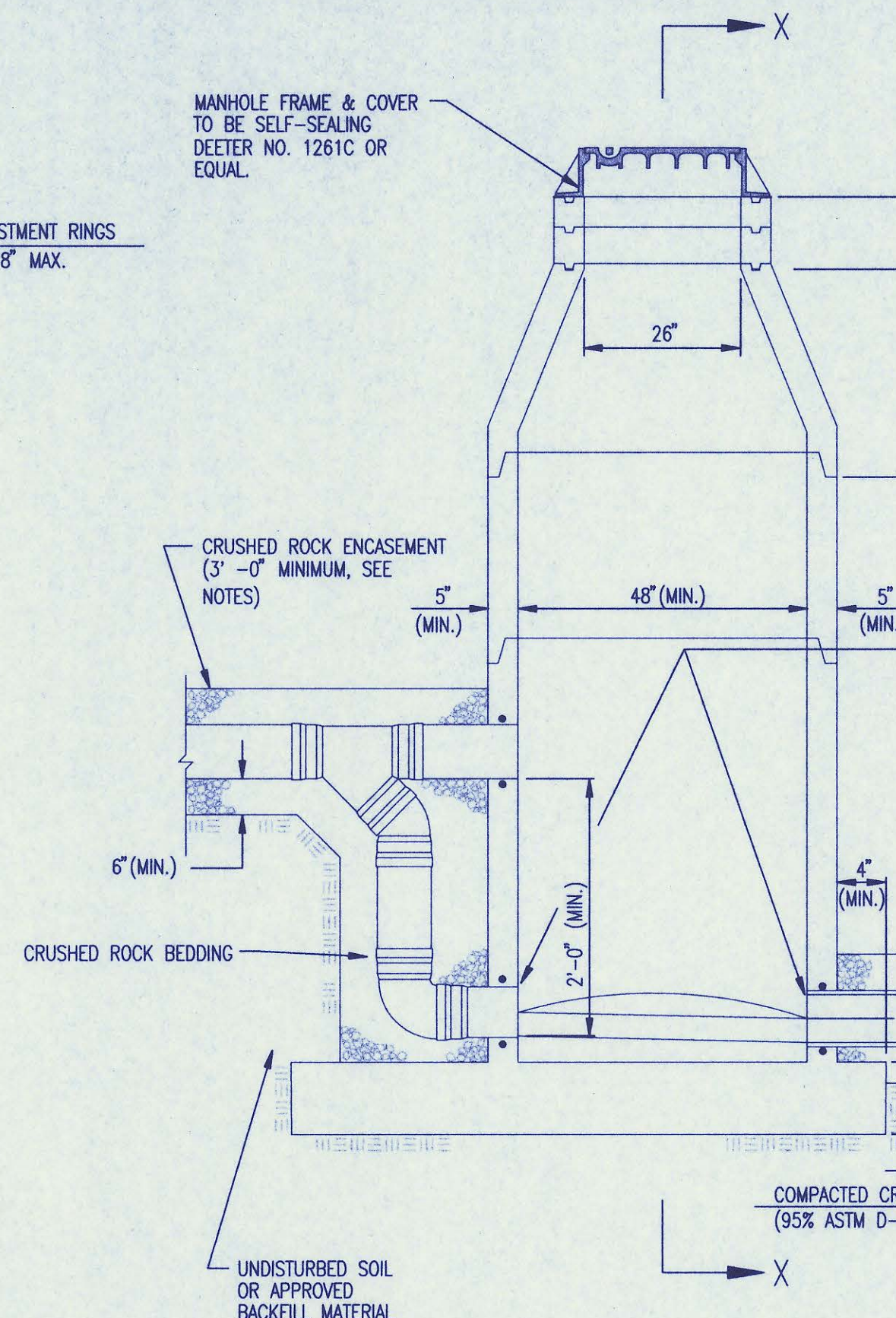
- MANHOLE FRAME AND COVER NOTES**
1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 35B, OR BETTER.
 2. CASTINGS ARE TO BE MANUFACTURED TRUE TO PATTERN AND WITH SATISFACTORY FIT OF COMPONENT PARTS. CASTINGS SHALL BE FREE OF DEFECTS AND ALL BURRS SHALL BE GRIND SMOOTH. DIMENSIONS AS DETAIL ON PLAN SHALL NOT DEVIATE BY ± 1/16" PER FOOT.
 3. NO OTHER LETTERING OR MARKINGS OTHER THAN THOSE DETAILED ON PLAN WILL BE PERMITTED ON CASTINGS.
 4. CASTINGS MUST BE DOMESTICALLY MANUFACTURED IN THE UNITED STATES OF AMERICA.
 5. THE FRAMES AND COVERS SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
 6. MANHOLE CASTINGS SHALL BE SELF-SEALING DEETER FOUNDRY INC. NO. 1261C OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. = 430 LBS.) ALL MANHOLE CASTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
 7. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
 8. THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED CONTINUOUS "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL BE FACTORY INSTALLED IN THE MANHOLE FRAME WITH 100% SILICON SEALANT-DOWN CORNING OR EQUAL.



PRECAST STANDARD MANHOLE TYPE "A"



PRECAST INSIDE DROP MANHOLE TYPE "B"

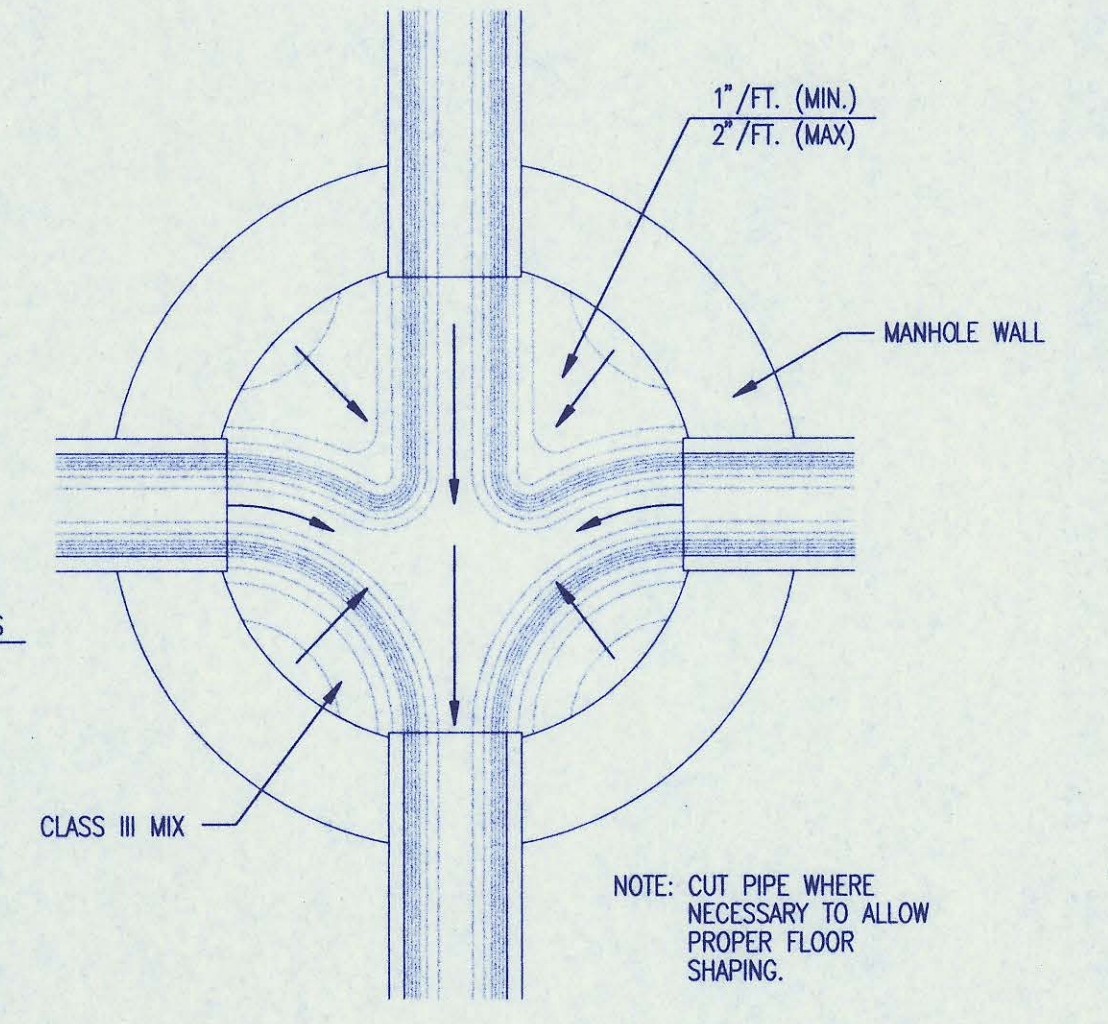


PRECAST OUTSIDE DROP MANHOLE TYPE "C"

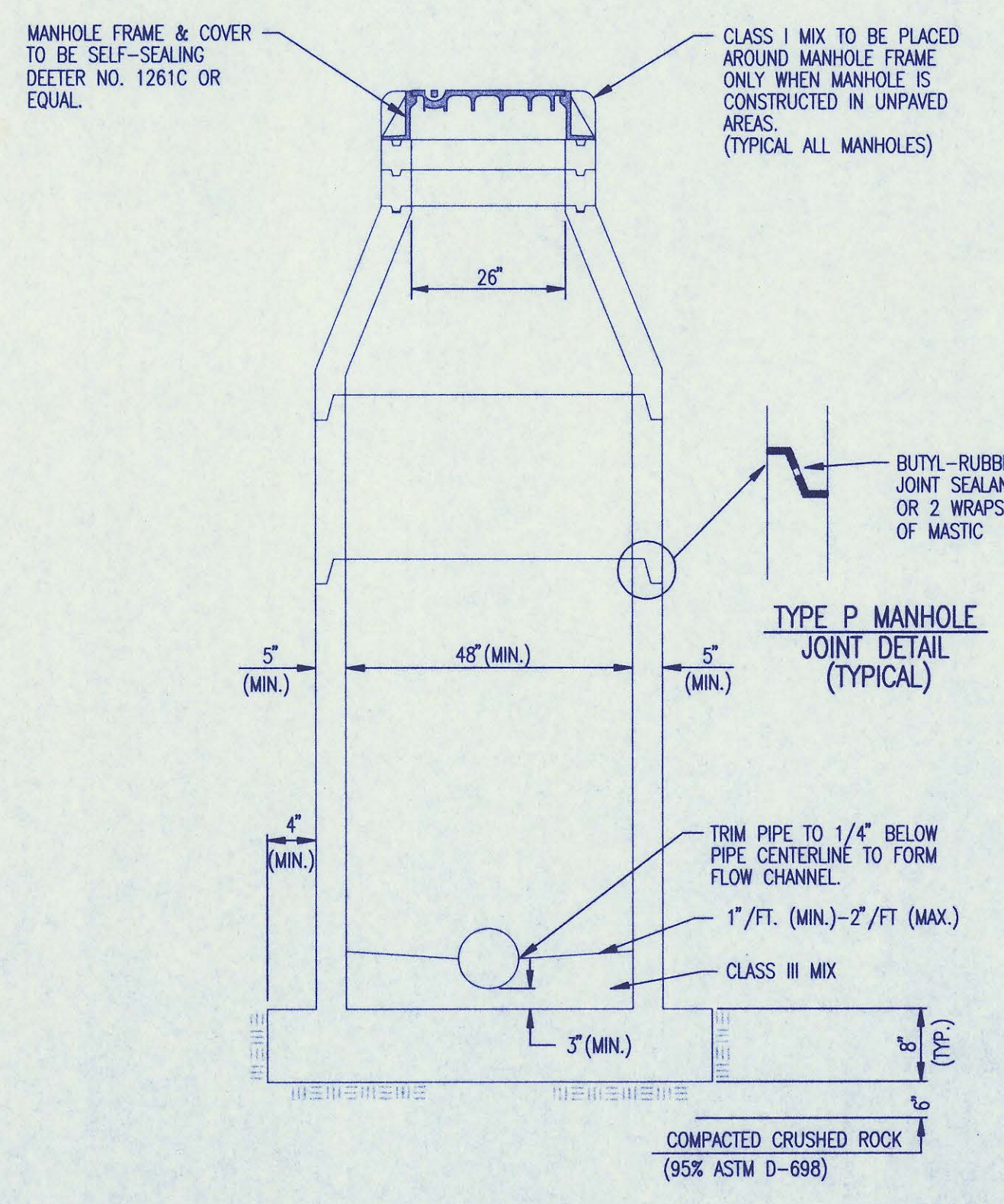
NOTE: TOP OF BOTTOM PIPE ON OUTSIDE DROP SHALL ALWAYS BE SET 0.1 FEET HIGHER THAN TOP OF PIPE CARRYING FLOW OUT OF THE MANHOLE.

PRECAST MANHOLE NOTES

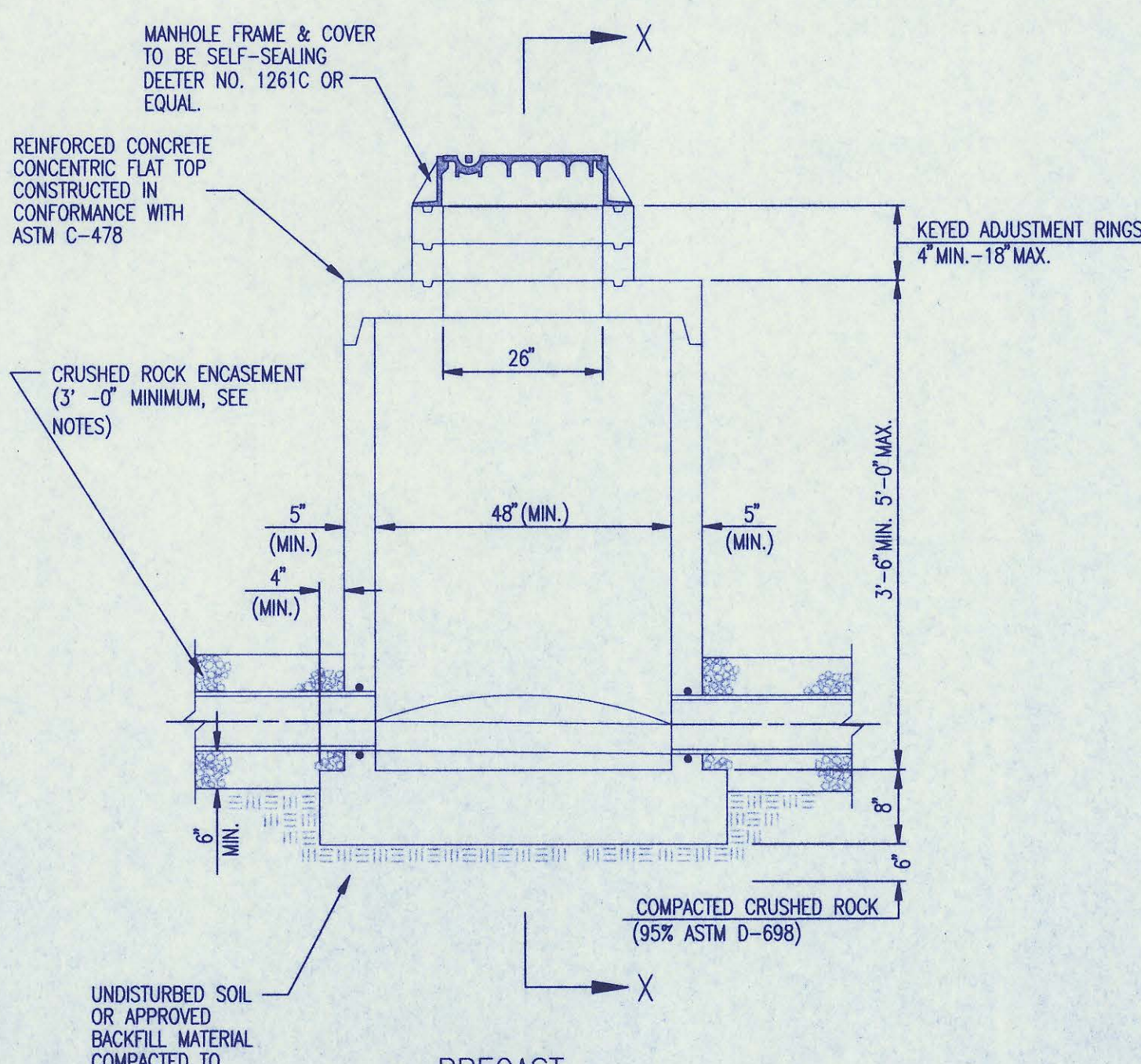
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL OVEREXCAVATE TO A SUITABLE SUBGRADE CONDITION AND CRUSHED ROCK SHALL BE PLACED AND COMPACTED TO THE REQUIRED GRADE.
2. "A-LOK" OR APPROVED EQUAL FLEXIBLE WATER-STOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO CONNECT THE SEWER TO THE MANHOLE.
3. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER OR MASTIC SEALANT TO PROVIDE WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING AND THE MANHOLE FRAME.
4. GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER. GULCH OR CEMENTED CAPS WILL NOT BE ACCEPTED.
5. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
6. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOOR LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
7. MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5" INSIDE DIAMETER (MIN.).
8. INSIDE DIAMETER OF FIVE-FOOT DIAMETER PRECAST MANHOLES SHALL REMAIN CONSTANT TO THE LOCATION OF THE REDUCING FLAT TOP WHICH CONNECTS THE FOUR-FOOT DIAMETER CONE SECTION TO THE FIVE-FOOT DIAMETER MANHOLE BARREL.
9. MANHOLES SHALL BE SUPPLIED WITH PRECAST BASE SECTIONS UNLESS OTHERWISE APPROVED. ALL PRECAST CONCRETE MANHOLE SECTIONS AND BASES SHALL CONFORM TO THE LATEST REVISION OF ASTM C478 AS MODIFIED BY THE SPECIFICATIONS.
10. WHERE MANHOLE STUBS ARE SHOWN ON THE PLANS, THE STUB SHALL EXTEND AT LEAST 5 FEET FROM THE INSIDE WALL OF THE MANHOLE. 4" STUBS SHALL BE SET AT 2.0% GRADE. 6" STUBS SHALL BE SET AT 1.0% GRADE.
11. MANHOLE SECTIONS SHALL BE SUPPLIED WITH RECESSED LIFTING EYES. LIFTING EYE RECESSES SHALL BE GROUDED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC COBALT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
12. WHERE A-LOK GASKETS ARE REQUIRED, THE CONTRACTOR SHALL UTILIZE A CRUSHED ROCK BEDDING MATERIAL. THE ROCK BEDDING MATERIAL SHALL EXTEND TO 3 FEET FROM THE MANHOLE WALL AND SHALL BE COMPACTED IN PLACE FROM THE BOTTOM OF THE DISTURBED AREA TO 1 FOOT ABOVE THE TOP OF PIPE. THE CRUSHED ROCK WHICH IS PLACED BELOW THE PIPE BEDDING ZONE SHALL BE COMPACTED TO 95% ASTM D-698(MIN.).
13. WHERE MANHOLES ARE TO BE BUILT OVER EXISTING SANITARY SEWER LINES, SEWER PIPES SHALL BE SUPPORTED WITH CLASS I CONCRETE ENCASEMENT A MINIMUM OF 3 FEET OUTSIDE THE MANHOLE WALL.
14. CRUSHED ROCK SHALL MEET THE REQUIREMENTS FOR GRANULAR BEDDING MATERIAL, AS OUTLINED IN THE SPECIFICATIONS.



TYPICAL MANHOLE FLOOR SHAPING



SECTION X (TYPICAL)



PRECAST SHALLOW MANHOLE TYPE "D"

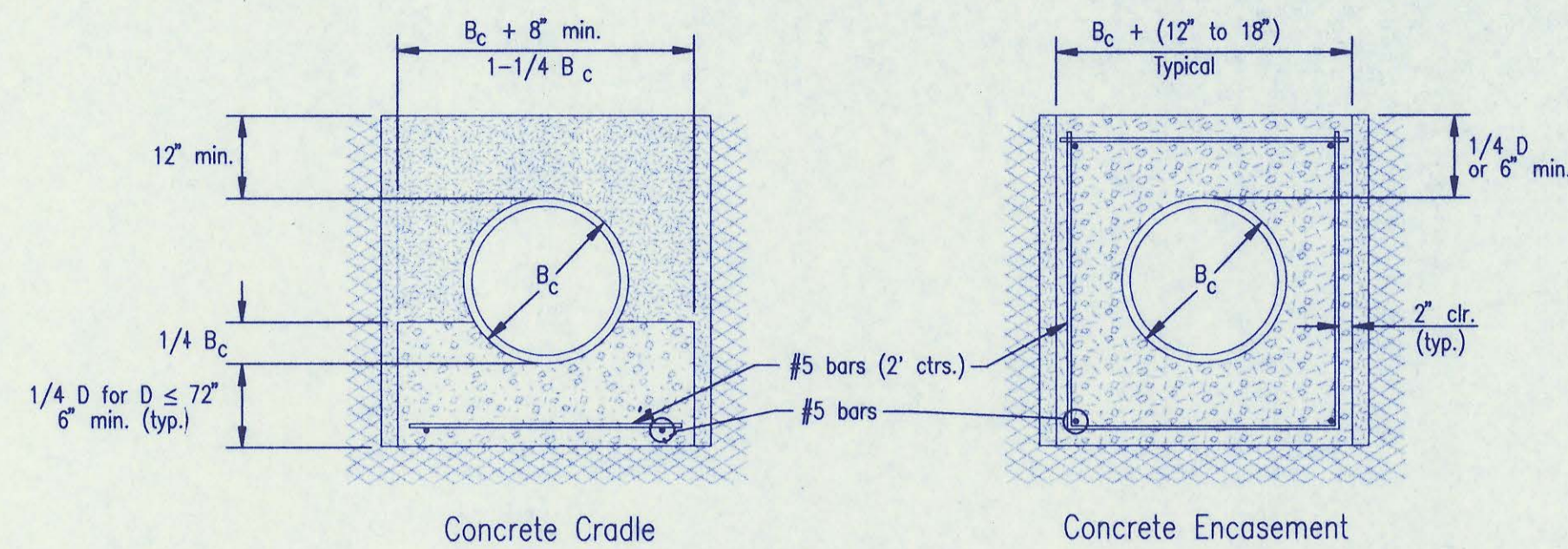
STANDARD PRECAST MANHOLE DETAILS
SEDGWICK COUNTY KANSAS

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

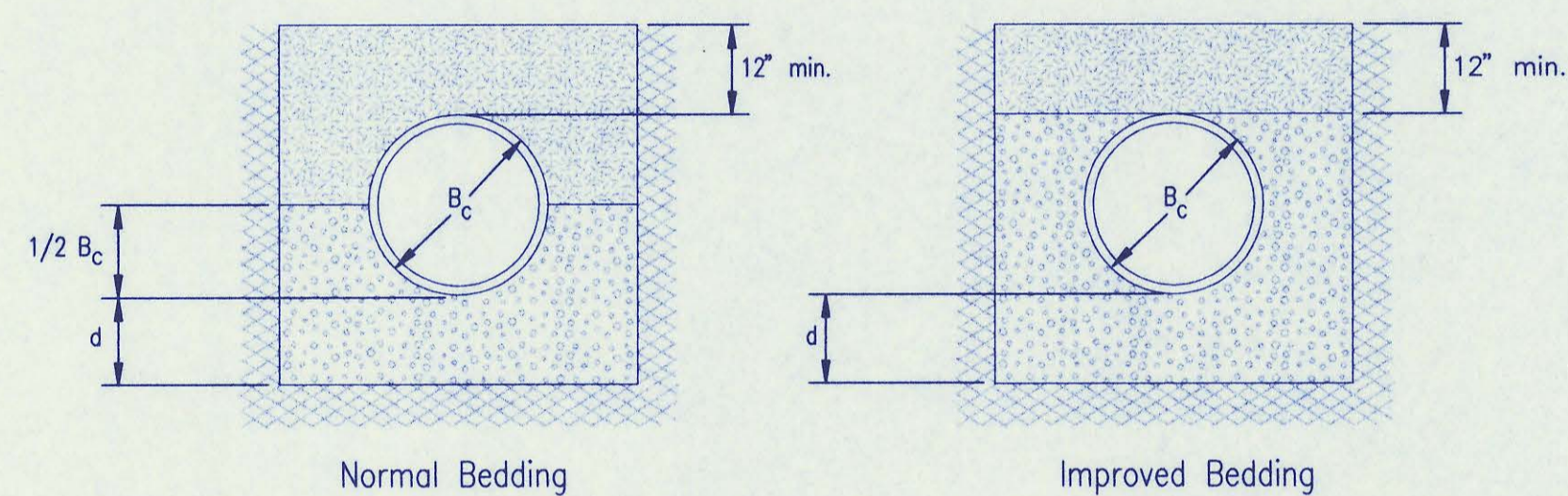
PROJECT NUMBER: **Sedgwick County, Kansas**

DESIGN	DRAWN	APPROVED	DATE	SCALE
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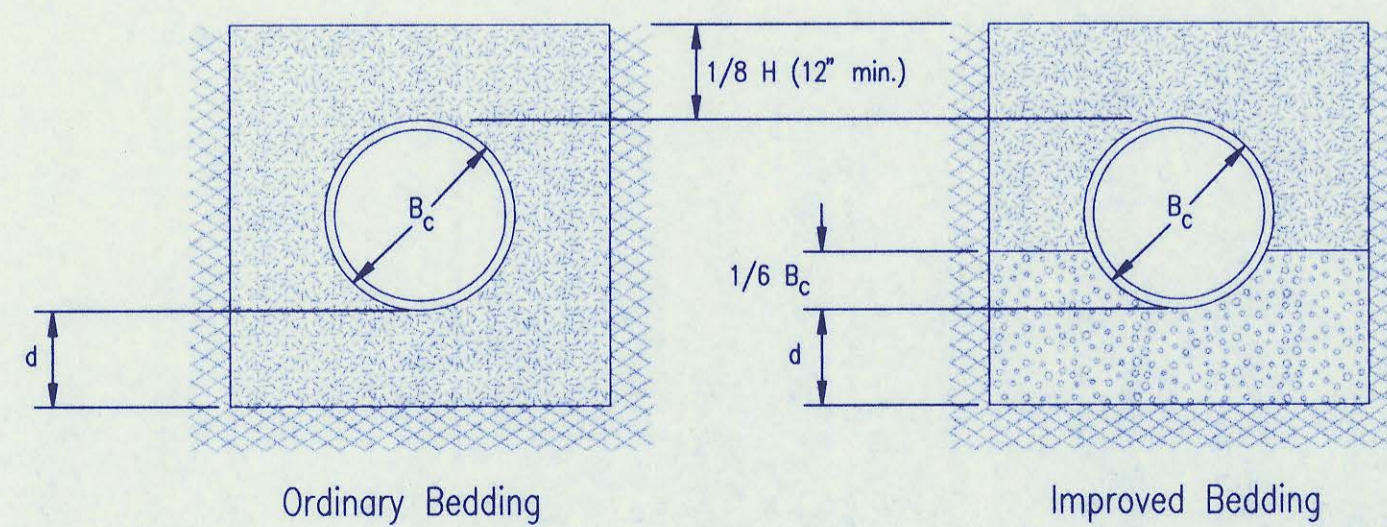
SHEET **19** OF **22**



CLASS A



CLASS B



CLASS C

PIPE ZONE BACKFILLING

- B_c = Outside Pipe Diameter
- H = Backfill from Top of Pipe to Existing Ground
- D = Inside Pipe Diameter
- d = Depth of Bedding Material Below Pipe
- [Pattern] = Granular Bedding Material or Sand-Gravel Bedding
- [Pattern] = Compacted Embedment
- [Pattern] = Concrete

Depth of Bedding Material Below Pipe		
D	d(min) Soil	d(min) Rock
27" & smaller	4"	6"
30" to 60"	5"	9"
66" & larger	6"	12"

Granular Bedding Material shall be an approved material consisting of durable crushed rock conforming with the requirements of the latest revision of ASTM C-33 Size No. 67 (3/4" to No. 4); to be placed in not more than 6" layers and compacted by slicing with a shovel or vibrating. Soundness, abrasion, and absorption limits shall be as required for coarse aggregates in Section 03010-Concrete Work in the specifications.

Sand-Gravel Bedding Material - sand-gravel mix meeting Type UD-1 of the 1990 Kansas Standard Specifications for State Road and Bridge Construction.

Compacted Embedment shall be an approved sand material free from debris, organic material, and stones with 100% passing the 3/4" sieve to be placed in uniform layers not more than 6" thick and compacted to 95 percent maximum density as determined by ASTM D698. Granular Bedding Material may be substituted for all or part of Compacted Embedment Materials.

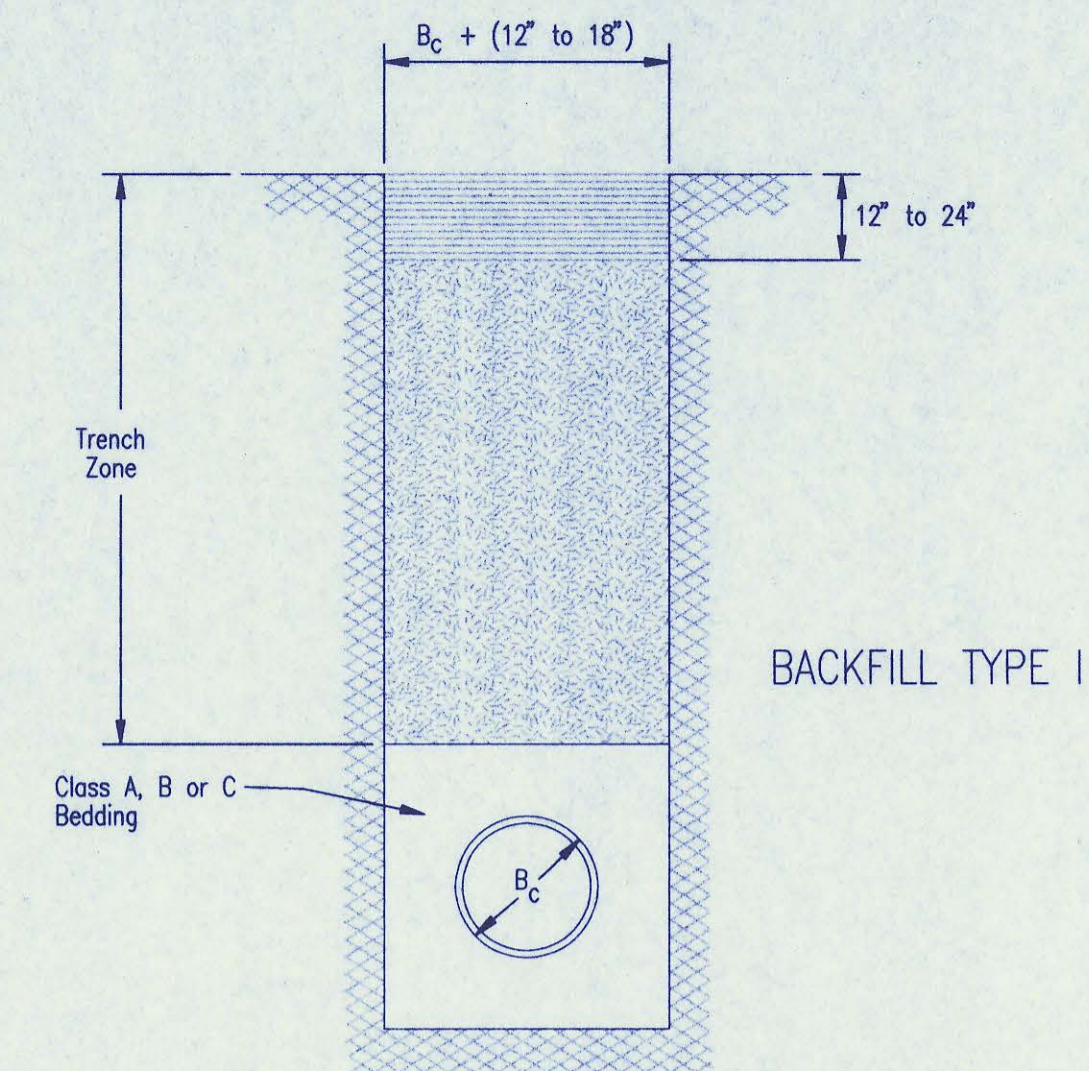
Class A "Concrete Cradle" and/or Class A "Concrete Encasement" is not required unless specified on the plans. However, where unexpected trench conditions exist or improper trenching is performed Class A Bedding may be required as determined by the Engineer.

Class B Bedding shall be used for all flexible pipe.

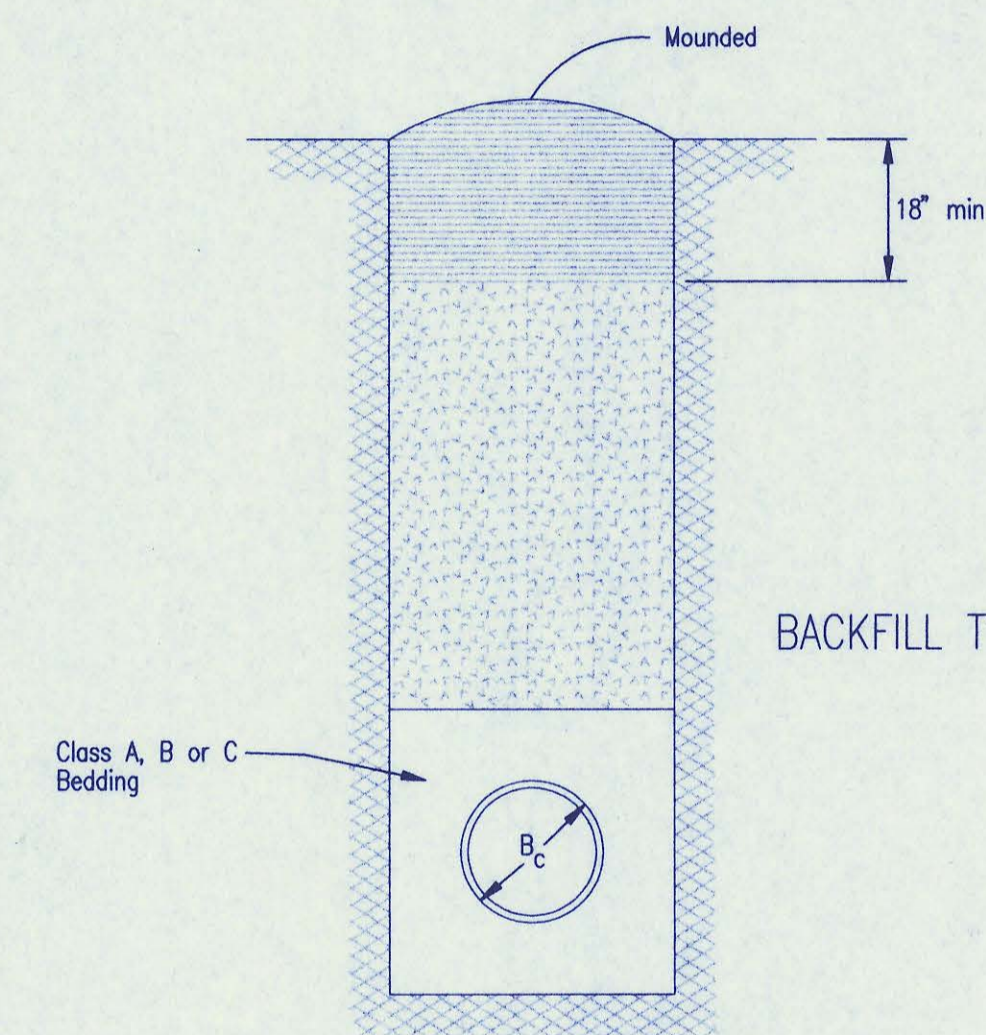
- a. Class B Normal Bedding shall be used for PVC Pipe unless wet conditions are encountered.
- b. Class B Improved Bedding shall be used for other flexible pipe, and for PVC pipe in wet conditions.

Class C Bedding shall be used for all rigid pipe.

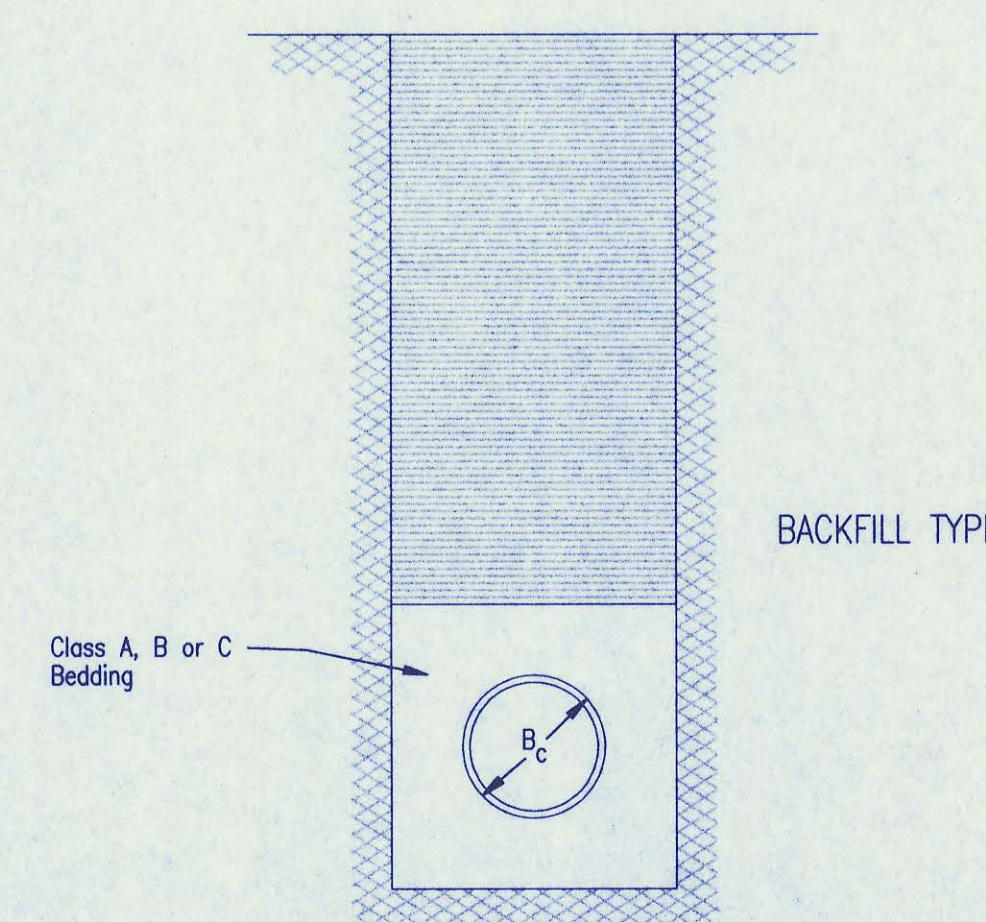
- a. Class C Ordinary Bedding shall be used for all rigid pipe unless wet conditions are encountered.
- b. Class C Improved Bedding shall be used for wet conditions existing in the trench, as directed by the Engineer, at no additional cost to the Owner. The dimensions shall be equal to that required for "rock" excavation (see specifications).



BACKFILL TYPE I



BACKFILL TYPE II



BACKFILL TYPE III

- B_c = Outside Pipe Diameter
- [Pattern] = Compacted Granular Backfill
- [Pattern] = Uncompacted Earth Backfill
- [Pattern] = Compacted Earth Backfill

Compacted Granular Backfill material shall be an approved sand material free from debris, organic material and stones with 100% passing the 3/4" sieve and not more than 15% passing a No. 200 sieve; to be jetted and mechanically vibrated into place and compacted to 95% density as determined by ASTM D698.

Uncompacted Earth Backfill material may be natural soil free from large clods or stones, brush, roots more than 2 inches in diameter, debris, and junk. Flooding with water shall be provided as directed by the Engineer.

Compacted Earth Backfill shall consist of material existing prior to trenching or selected material as directed by the Engineer, and shall be compacted to 90% density as determined by ASTM D698.

Backfill: Backfill material and compaction requirements shall conform to either Type I, Type II or Type III as specified in the plans. One year maintenance will be required on all backfill.

Backfilling Through Rock: Backfilling through rock shall be performed as specified in the paragraph Backfill above, except that the Pipe Zone is increased to provide eighteen (18) inches of cover over the pipe. When approved by the Engineer the remainder of the backfill may be excavated rock provided the excavated rock has been broken up so that earth and rock will thoroughly mix and not result in voids around the larger pieces of rock. Any excess rock remaining after the trench has been backfilled shall be removed or wasted as directed by the Engineer.

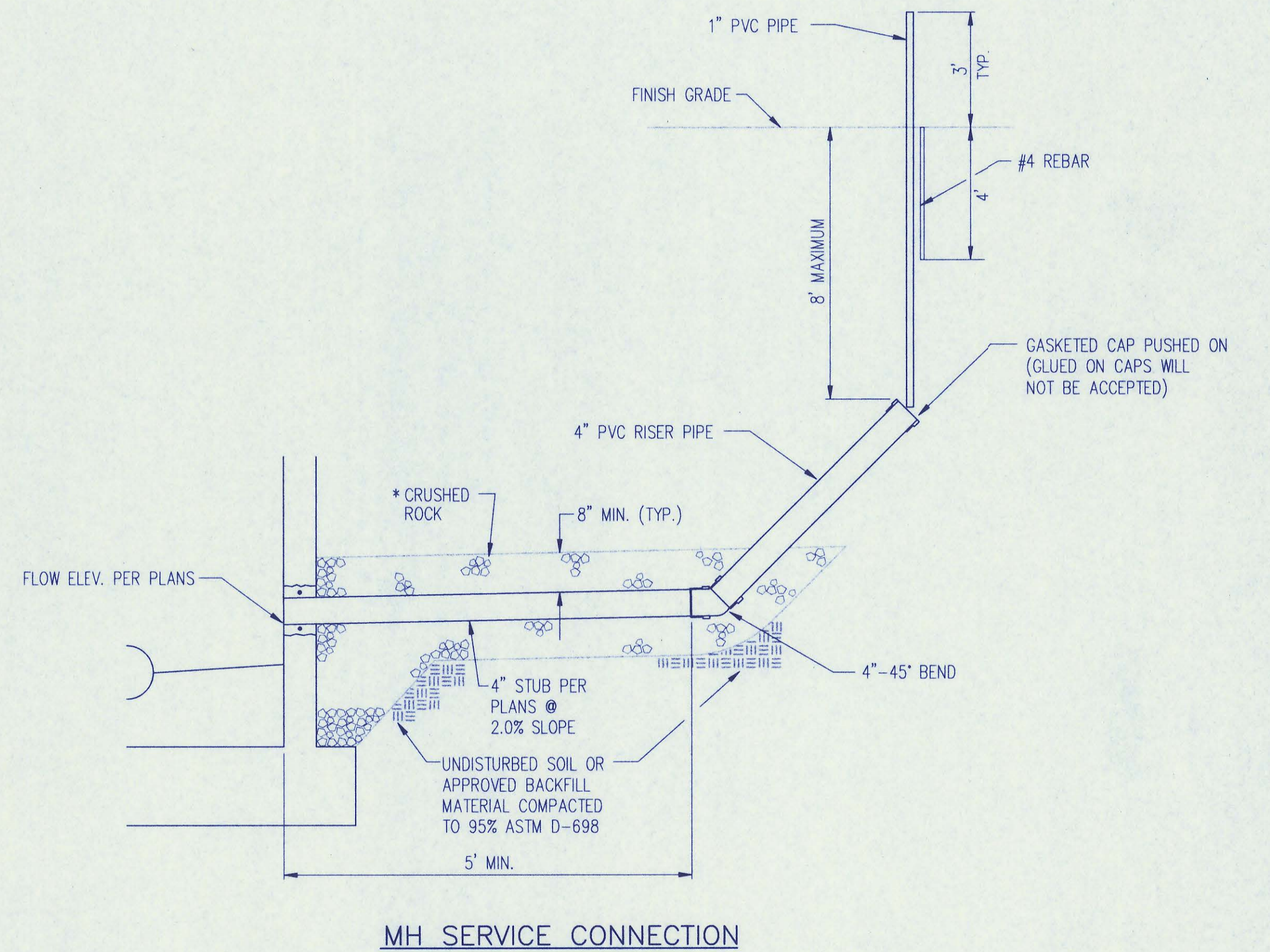
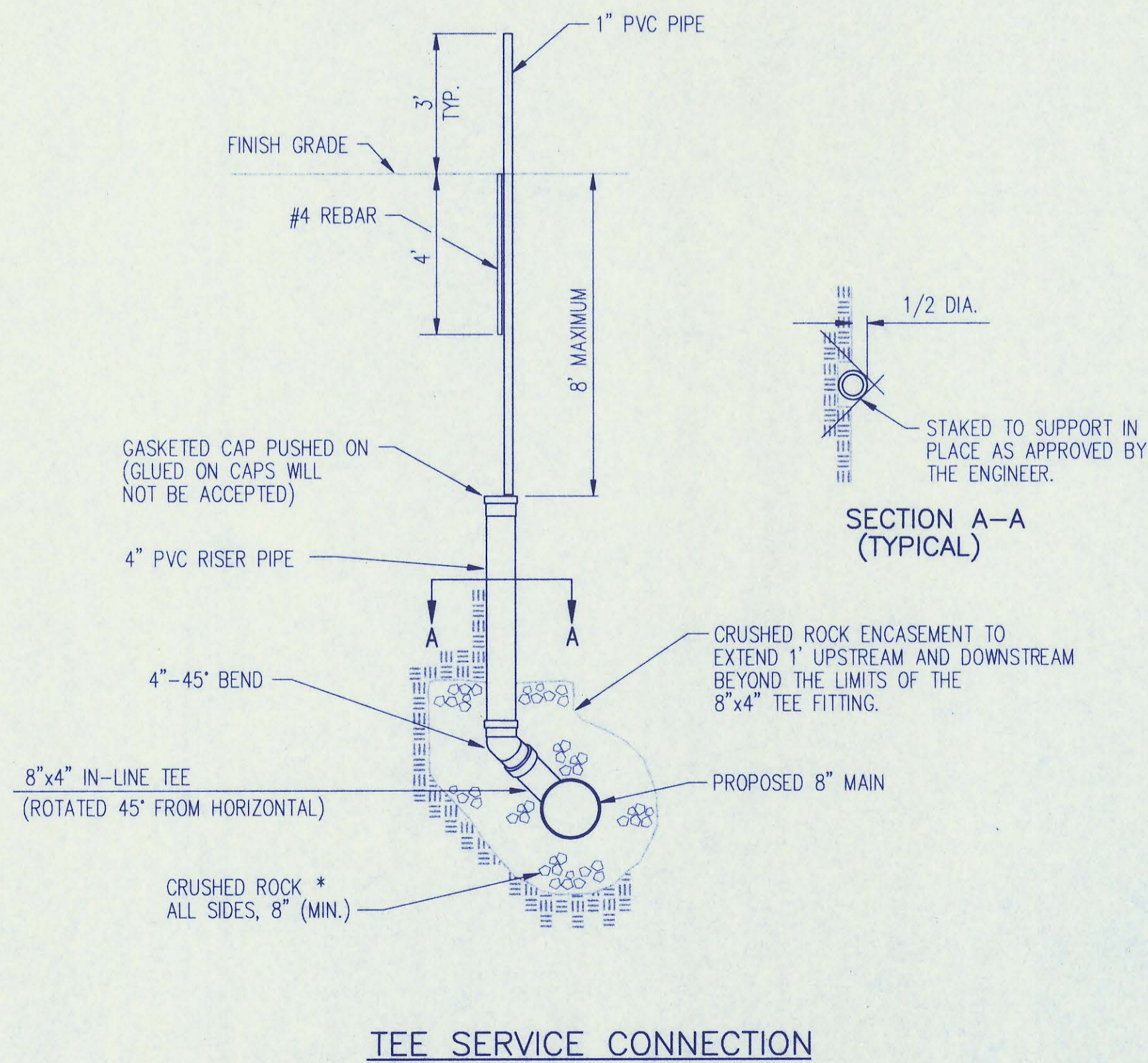
Backfilling Under Pavement: Backfilling under existing or proposed pavement shall be performed as Backfill Type I to a level of two (2) feet from the bottom of the pavement. The remainder of the trench shall be backfilled with selected material, sufficiently damp to be properly compacted in layers not exceeding six (6) inches in depth, compaction shall be performed with mechanical tampers and continued until a relative density of 100 percent of standard density, in conformance with ASTM D698 is attained.

Backfilling Under Gravel Streets: Where the trench crosses or is in existing gravel surfaced streets, the backfill shall be compacted as provided in the paragraph "Backfilling Under Pavement".

TRENCH ZONE BACKFILLING

BACKFILL DETAILS					
SEDGWICK COUNTY KANSAS					
BAUGHMAN COMPANY P. A.					
ENGINEERING, SURVEYING, & PLANNING					
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211					
PROJECT NUMBER Sedgwick County, Kansas					SHEET 20
DESIGN	DRAWN	APPROVED	DATE 1/97	SCALE	OF 22

SEWER SERVICE TABLE										
NO.	TYPE	LOCATION				APPROXIMATE LENGTH 4" PIPE	RECORD INFORMATION (TO BE COMPLETED BY PROJECT INSPECTOR)			NO.
		LOT NO.	BLOCK NO.	LATERAL NO.	STATION / DIRECTION		DISTANCE FROM NEAREST MANHOLE UPSTREAM	DISTANCE FROM NEAREST MANHOLE DOWNSTREAM		
1	TEE SERVICE CONNECTION	11	B	91-12	1+38.3/Rt.	10'				1
2	TEE SERVICE CONNECTION	10	B	91-12	2+19.4/Rt.	10'				2
3	TEE SERVICE CONNECTION	9	B	91-12	3+24.0/Rt.	10'				3
4	TEE SERVICE CONNECTION	8	B	91-12	3+95.4/Rt.	10'				4
5	TEE SERVICE CONNECTION	7	B	91-12	4+64.5/Rt.	10'				5
6	TEE SERVICE CONNECTION	6	B	91-12	5+33.1/Rt.	15'				6
7	TEE SERVICE CONNECTION	5	B	91-12	6+01.6/Rt.	15'				7

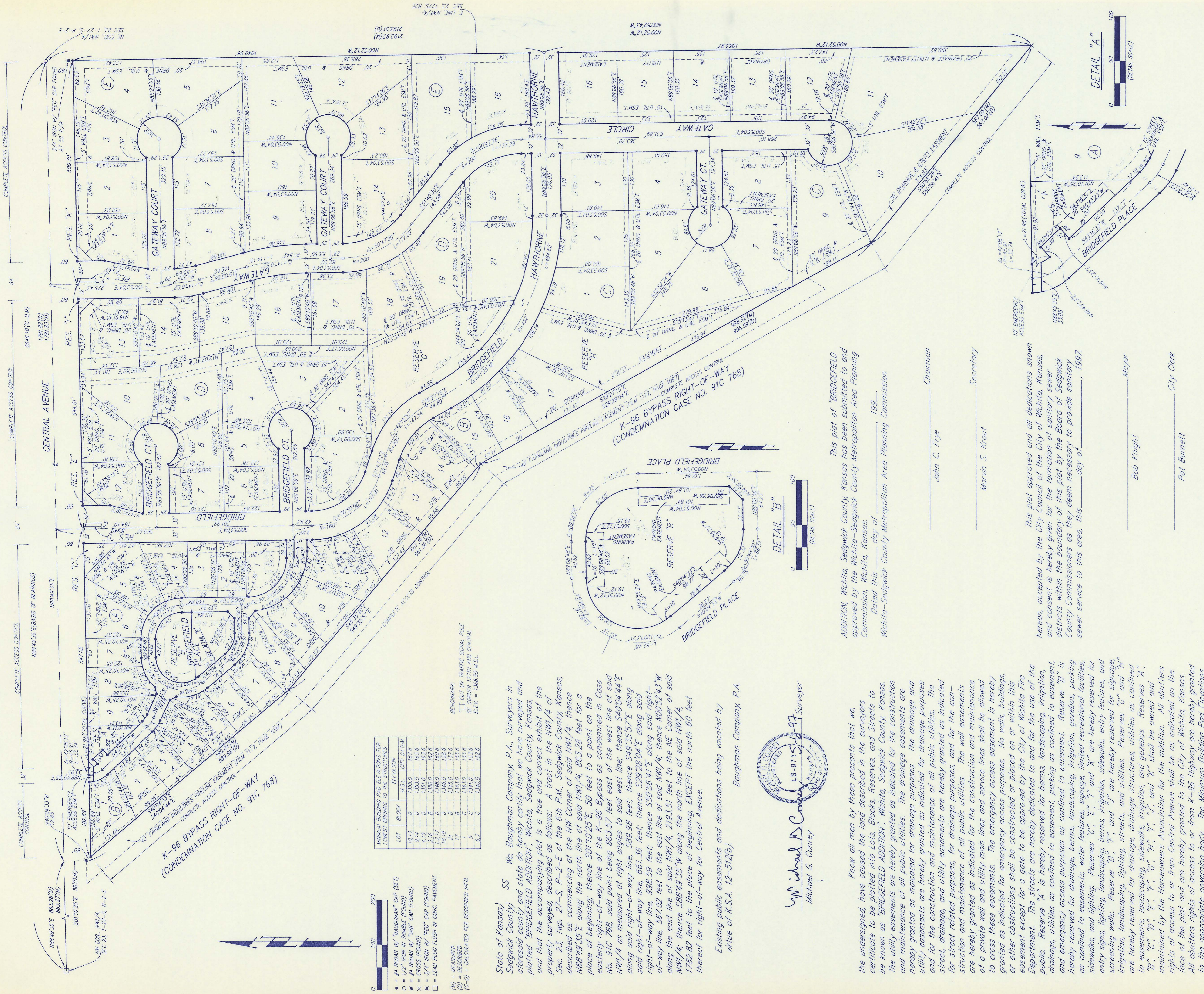


* CRUSHED ROCK SHALL MEET THE REQUIREMENTS FOR GRANULAR BEDDING MATERIAL, AS OUTLINED IN THE SPECIFICATIONS.

SERVICE CONNECTIONS ARE TO BE INSTALLED WHERE PROPOSED SEWER MAIN IS 12' OR MORE BELOW PROPOSED GROUND OR AS SHOWN IN THE PLANS.

SERVICE CONNECTION DETAILS			
SEDGWICK COUNTY KANSAS			
BAUGHMAN COMPANY P. A. ENGINEERING, SURVEYING, & PLANNING 316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER Sedgwick County, Kansas			SHEET 21
DESIGN	DRAWN	APPROVED	SCALE None
DATE 6/24/97		None	

BRIDGEFIELD ADDITION WICHITA, SEDGWICK COUNTY, KANSAS



State of Kansas) SS We, Baughman Company, P.A., Surveyors in Sedgwick County and state do hereby certify that we have surveyed and plotted "BRIDGEFIELD ADDITION", Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows: A tract in the NW 1/4 of Sec. 23, Twp. 21-S, R-2-E of the 6th P.M., Sedgwick County, Kansas, described as commencing at the NW Corner of said NW 1/4; thence N88°49'33"E along the north line of said NW 1/4, 863.28 feet for a place of beginning; thence S01°10'25"E, 50 feet to a point on the easterly right-of-way line of the K-96 Bypass as condemned in Case No. 91C 768, said point being 863.57 feet east of the west line of said NW 1/4 as measured at right angles to said west line; thence S40°04'44"E along said right-of-way line, 589.98 feet; thence S49°35'57"E along said right-of-way line, 661.36 feet; thence S29°28'04"E along said right-of-way line, 998.59 feet; thence S50°36'41"E along said right-of-way line, 567.02 feet to the east line of said NW 1/4; thence N00°32'43"W along the east line of said NW 1/4, 2193.51 feet to the NE Corner of said NW 1/4; thence S88°49'35"W along the north line of said NW 1/4, 1782.82 feet to the place of beginning, EXCEPT the north 60 feet therefor for right-of-way for Central Avenue.

Existing public easements and dedications being vacated by virtue of K.S.A. 12-512(b).
Baughman Company, P.A.

Michael G. Conroy
Surveyor
15-9715-97

Know all men by these presents that we, the undersigned, have caused the land described in the surveyors certificate to be plotted into Lots, Blocks, Reserves, and Streets to be known as "BRIDGEFIELD ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The drainage easements are hereby granted as indicated for drainage purposes. The drainage and utility easements are hereby granted as indicated for drainage purposes and for the construction and maintenance of all public utilities. The street, drainage, and utility easements are hereby granted as indicated for street related purposes, for drainage purposes, and for the construction and maintenance of all public utilities. The wall easements are hereby granted as indicated for the construction and maintenance of a private wall and utility main lines and service lines shall be allowed to cross these easements. The emergency access easement is hereby granted as indicated for emergency access purposes. No walls, buildings, or other obstructions shall be constructed or placed on or within this easement except for a gate to be approved by the City of Wichita Fire Department. The streets are hereby dedicated to and for the use of the public. Reserve "A" is hereby reserved for berms, landscaping, irrigation, drainage, utilities as confined to easement, parking as confined to easement, and emergency access purposes as confined to easement. Reserve "B" is hereby reserved for drainage, berms, landscaping, irrigation, gazebos, parking as confined to easements, water features, signage, limited recreational facilities, sidewalks, and lighting. Reserves "C", "E", "F", and "K" are hereby reserved for entry signs, lighting, landscaping, berms, irrigation, sidewalks, entry features, and screening walls. Reserve "D", "I", and "J" are hereby reserved for signage, irrigation, landscaping, lighting, streets, and utilities. Reserves "G" and "H" are hereby reserved for drainage, drainage structures, utilities as confined to easements, landscaping, sidewalks, irrigation, and gazebos. Reserves "A", "B", "C", "D", "E", "F", "G", "H", "I", "J", and "K" shall be owned and maintained by the Homeowners Association for the addition. All abutters rights of access to or from Central Avenue shall be as indicated on the face of the plat and are hereby granted to the City of Wichita, Kansas. All abutters rights of access to or from K-96 Highway are hereby granted to the appropriate governing body. The Minimum Building Pad Elevations for the lowest opening to the structures shall be as indicated on the face of the plat.

Scott Developers, L.L.C.

Donald N. Scott
Manager

State of Kansas) SS The foregoing instrument acknowledged before me, this 5th day of MAY, 1997, by Donald N. Scott, Manager of Scott Developers, L.L.C., on behalf of the company:

Philip J. Meyer
Notary Public
State of Kansas

This plat of "BRIDGEFIELD ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas. Dated this 5th day of MAY, 1997.

John C. Frye
Chairman

Marvin S. Krout
Secretary

This plat approved and all dedications shown hereon, accepted by the City Council of the City of Wichita, Kansas, and consent is hereby given for the formation of sanitary sewer districts within the boundary of this plat by the Board of Sedgwick County Commissioners as they deem necessary to provide sanitary sewer service to this area, this 5th day of MAY, 1997.

Bob Knight
Mayor

Pat Burnett
City Clerk

Entered on transfer record this 5th day of MAY, 1997.

James Alford
County Clerk

State of Kansas) SS This is to certify that this plat has been filed for record in the office of the Register of Deeds, this 5th day of MAY, 1997, at 10 o'clock A.M. and is duly recorded.

Larry Consvler
Register of Deeds

Michael D. Hurtt
Deputy

We, the undersigned, holders of a mortgage on the above described property, do hereby consent to this plat of "BRIDGEFIELD ADDITION", Wichita, Sedgwick County, Kansas.

Randall D. Craven
Senior Vice-President
Prairie State Bank

State of Kansas) SS The foregoing instrument acknowledged before me, this 5th day of MAY, 1997, by Randall D. Craven, Senior Vice-President of Prairie State Bank, on behalf of the bank:

Philip J. Meyer
Notary Public
State of Kansas