

BUREAU OF PUBLIC SERVICES

4MC-096

MICROFILMED OF RECORD
 FILM | 379 PAGE | 992
 EASEMENT FOR SANITARY SEWER
 Pinnacle @ Crestview
 Lot 24, Block 1

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Dr. Max R. Moss and Penelope A. Moss, (hereinafter "Owner").

WITNESSETH: 4MC-096 MB 266

That for and in consideration of the sum of ONE DOLLAR, \$ 1.00, and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

Beginning at a point on the Southerly line of Lot 24, Block 1, The Pinnacle at Crestview, an addition to Sedgwick County, Kansas, said point being the intersection of said Southerly lot line and the Easterly line of a platted 25 foot utility easement; thence Northeasterly along said lot line, 5 feet; thence Northwesterly along an arc with a radius of 226.00 feet, said arc being 5 feet Northeasterly of and concentric with said platted easement line, a distance of 5 feet; thence Southwesterly in a direction radial to previous course, 5 feet to said platted easement line; thence Southeasterly along said platted easement line, 4.89 feet of the point of beginning.

for the purposes of constructing and maintaining a sanitary sewer system according to plans and specifications now on file in the office of the Sedgwick County Engineer.

MICROFILMED OF RECORD
 FILM | 379 PAGE | 991
 EASEMENT FOR SANITARY SEWER
 Pinnacle @ Crestview
 Lot 25, Block 1

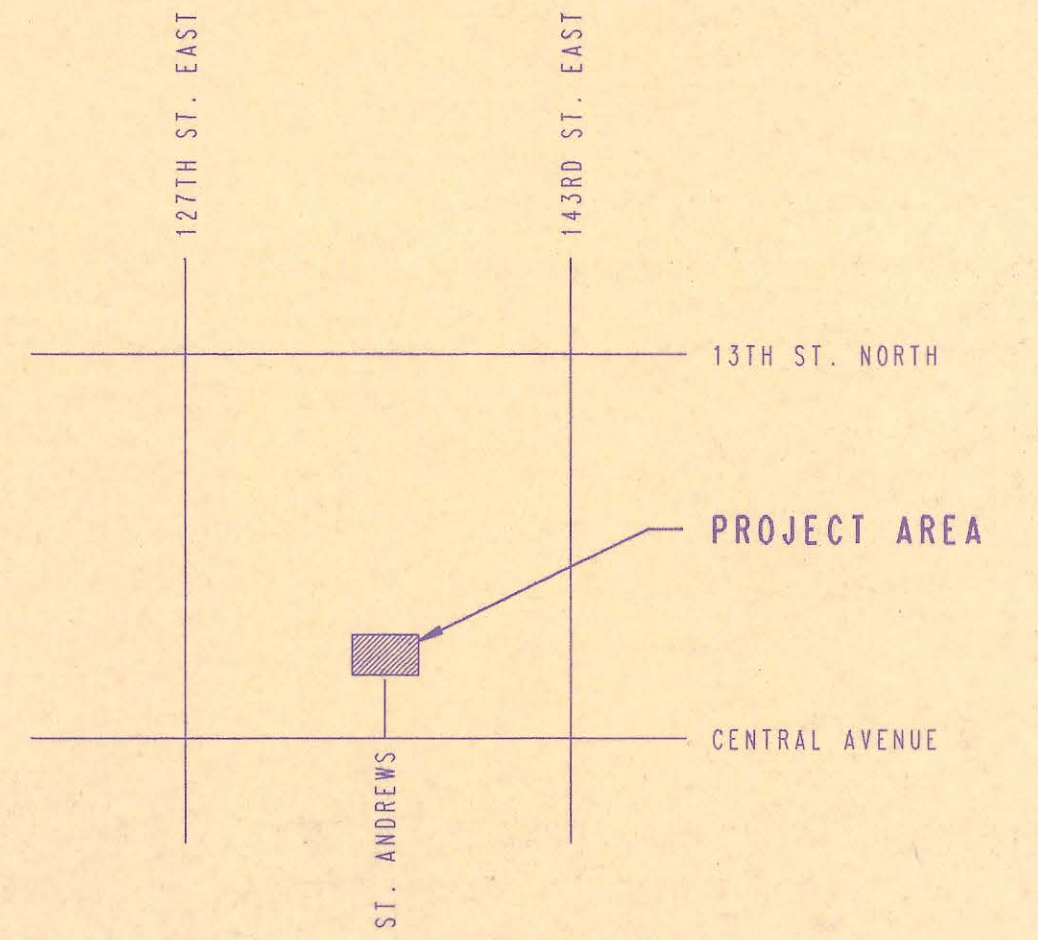
THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Devlin Financial, Inc., (hereinafter "Owner").

WITNESSETH: 4MC-096 MB 266

That for and in consideration of the sum of TEN DOLLARS, \$ 10.00, and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

Beginning at a point on the Northerly line of Lot 25, Block 1, The Pinnacle at Crestview, an addition to Sedgwick County, Kansas, said point being the intersection of said Northerly lot line and the Easterly line of a platted 25 foot utility easement; thence Northeasterly along said lot line, 5 feet; thence Southeasterly along an arc with a radius of 226.00 feet, said arc being 5 feet Northeasterly of and concentric with said platted easement line, a distance of 10 feet; thence Southwesterly in a direction radial to previous course, 5 feet to said platted easement line; thence Northwesterly along said platted easement line, 9.78 feet of the point of beginning.

for the purposes of constructing and maintaining a sanitary sewer system according to plans and specifications now on file in the office of the Sedgwick County Engineer.



LOCATION MAP

INDEX OF SHEETS

SHEET NO.	TITLE SHEET
1	KEY MAP
2	PLAT
3	PRECAST MANHOLE DETAILS
4	CAST-IN-PLACE MANHOLE DETAILS
5	PLAN/PROFILE
6-13	BACKFILL DETAILS
14	CHANGE ORDER NO. 1

CONSTRUCTION PLANS FOR SANITARY SEWER IMPROVEMENTS IN THE PINNACLE AT CRESTVIEW

WICHITA, SEDGWICK COUNTY, KANSAS

APRIL, 1992

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS

RECORD DRAWING
 3-15-93

APPROVED BY:
 SEDGWICK COUNTY
 BUREAU OF PUBLIC SERVICES
[Signature] 5/13/92
 DIRECTOR DATE

APPROVED BY:
 BOARD OF COUNTY COMMISSIONERS
[Signature] 5/14/92
 CHAIRMAN DATE

FILED IN THE OFFICE OF:
 THE SEDGWICK COUNTY CLERK
[Signature] 5/15/92
 COUNTY CLERK DATE

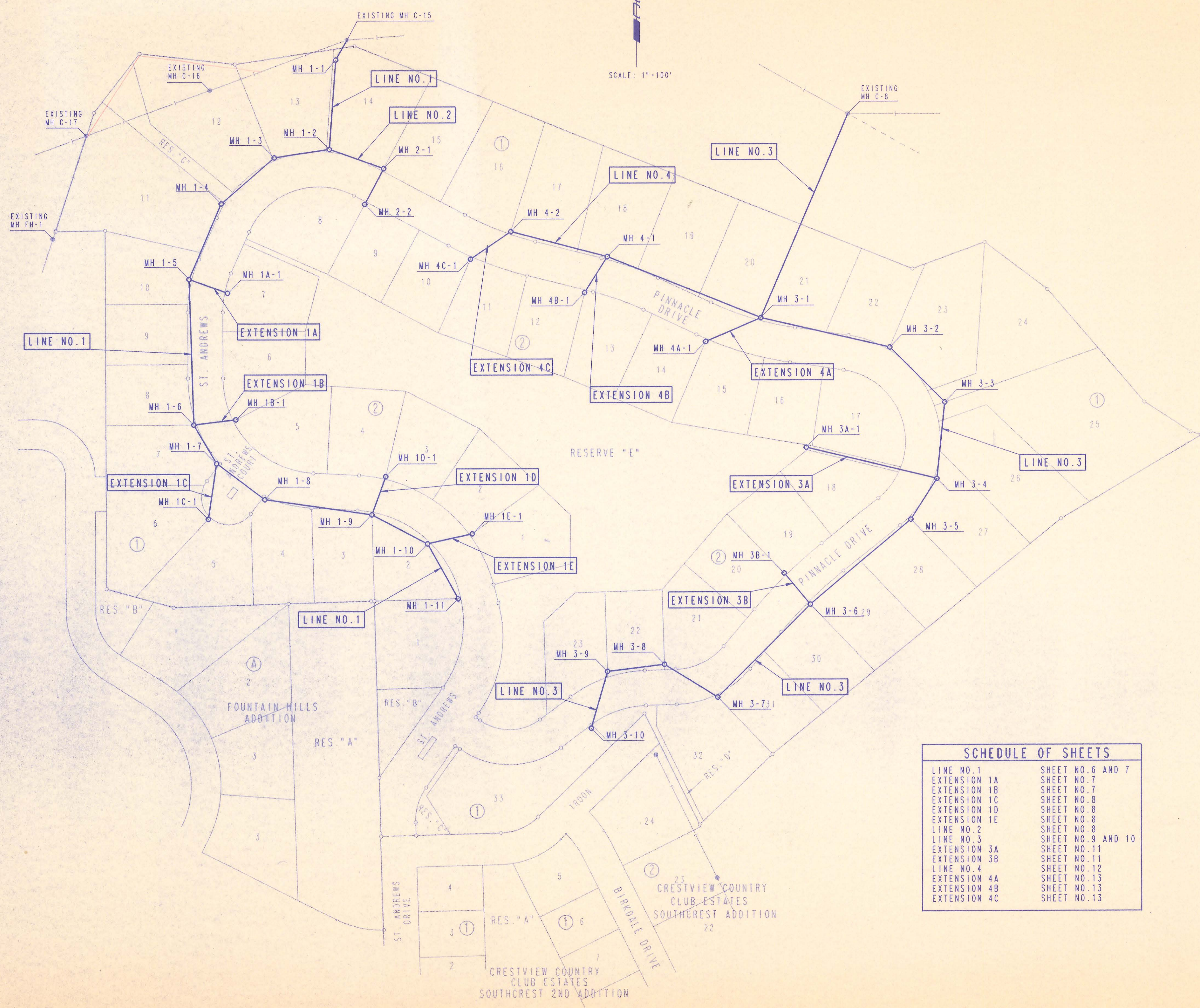


DRAWING NAME: 34-91675-2 SS TITLE
 LOCATION: LOCAL EA DRG #960
 CENTER COORDINATES:
 DATE LAST WORKED ON: APR. 22, 1992
 SPECIAL INSTRUCTIONS:
 C.O. BY: MDK DATE: 4/24/92
 C.O. BY:

4MC-096

DATE 4/24/92
 BY MDC
 CHECKED
 PLAN

DRAWING NAME: 34-91675-2 SS KEY
 LOCATION: CRESTVIEW CLUB ESTATES
 DATE LAST WORKED ON: APR. 23, 1992
 SPECIAL INSTRUCTIONS:



SCALE: 1"=100'
 NORTH

SCHEDULE OF SHEETS	
LINE NO. 1	SHEET NO. 6 AND 7
EXTENSION 1A	SHEET NO. 7
EXTENSION 1B	SHEET NO. 7
EXTENSION 1C	SHEET NO. 8
EXTENSION 1D	SHEET NO. 8
EXTENSION 1E	SHEET NO. 8
LINE NO. 2	SHEET NO. 8
LINE NO. 3	SHEET NO. 9 AND 10
EXTENSION 3A	SHEET NO. 11
EXTENSION 3B	SHEET NO. 11
LINE NO. 4	SHEET NO. 12
EXTENSION 4A	SHEET NO. 13
EXTENSION 4B	SHEET NO. 13
EXTENSION 4C	SHEET NO. 13

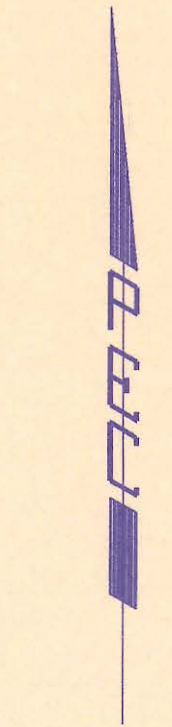
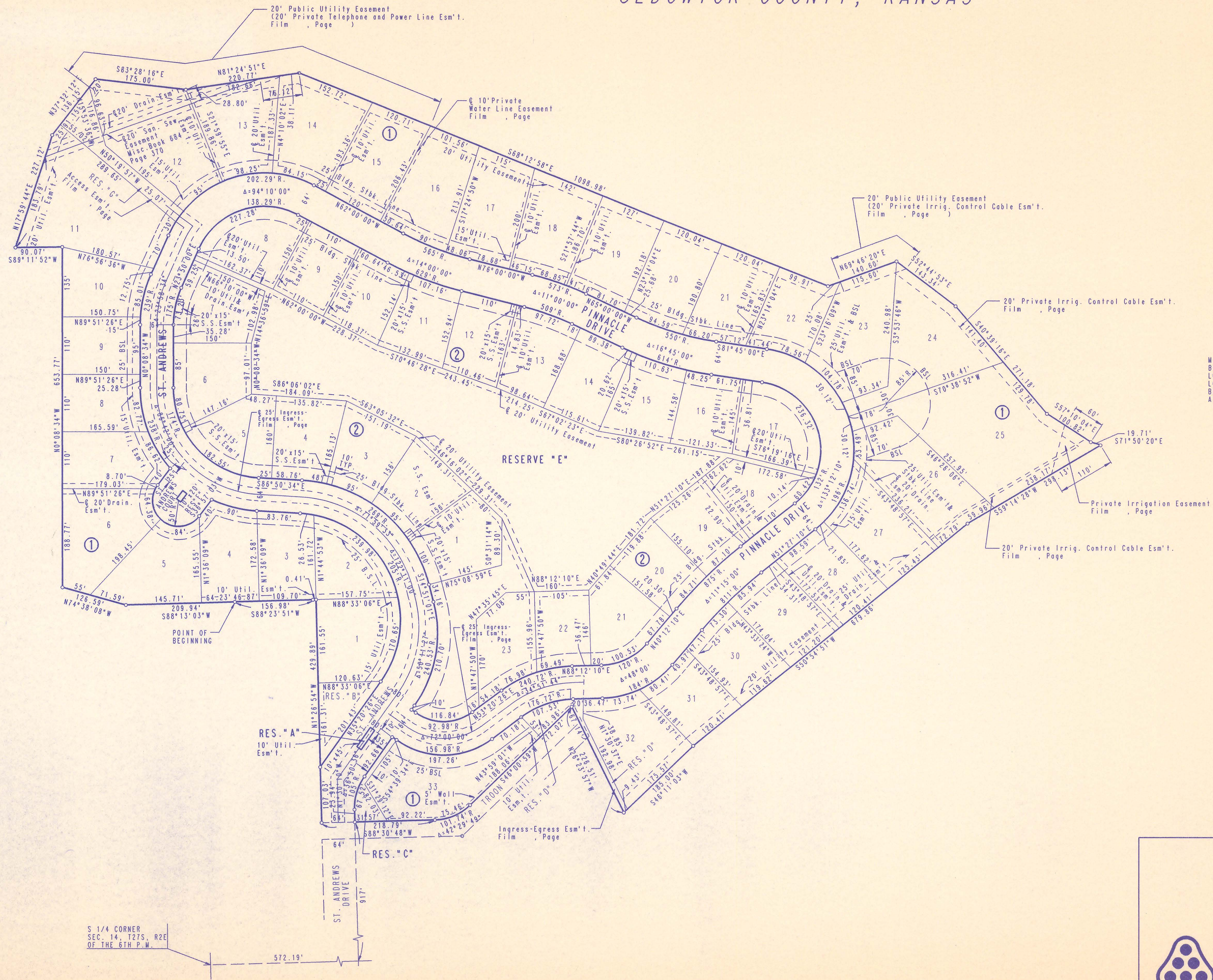
- GENERAL NOTES
- ALL ELEVATIONS SHOWN ARE USGS DATUM.
 - AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 687-2479 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA: MULTIMEDIA CABLE TV, WICHITA WATER, KPL/GAS SERVICE COMPANY, SOUTHWESTERN BELL TELEPHONE, AND K. G. & E.
 - 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 SERVICE
 1250 S. SENECA
 WICHITA, KS 67213
 MR. JIM WEBER
 (316) 383-7901
 - 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.
 - WHERE THE IMPROVEMENTS CROSS EXISTING PUBLIC OR PRIVATE UTILITIES WHICH ARE NOT TO BE ADJUSTED BY OTHERS, THE CONTRACTOR SHALL PROVIDE THE MATERIAL AND MEANS TO PROTECT AND SUPPORT SAID UTILITIES DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
 - EXCESS EXCAVATED 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.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RESET ALL PROPERTY CORNERS DISTURBED DURING CONSTRUCTION WHICH ARE NOTED ON THE PLANS AND ANY ADDITIONAL CORNERS FOUND DURING CONSTRUCTION. THE LICENSED LAND SURVEYOR USED TO RESET PROPERTY CORNERS MUST BE APPROVED BY THE ENGINEER.
 PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL FLAG AND REFERENCE ALL PROPERTY CORNERS SHOWN ON THE PLANS, AND VERIFY THESE IN THE FIELD IN THE PRESENCE OF THE ENGINEER AND THE CONTRACTOR'S SURVEYOR.
 AFTER CONSTRUCTION AND BEFORE THE FINAL INSPECTION, A LETTER SIGNED BY A LICENSED LAND SURVEYOR CERTIFYING REPLACEMENT OF ALL DISTURBED PROPERTY CORNERS SHALL BE SUBMITTED TO THE ENGINEER.
 ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE PROJECT.
 - THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT TRAFFIC THROUGH AND ACROSS CONSTRUCTION ON 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 ARTICLE 6 OF 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 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 FOREMENTIONED ITEMS, INCLUDING SEEDING, FERTILIZER, AND MULCHING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
 - ALL GRASSED AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLANTED WITH GRASS AND FERTILIZED IN ACCORDANCE WITH THE SPECIFICATIONS FOR SUCH WORK. REMOVAL AND REPLACEMENT OF THE GOLF COURSE FAIRWAY SOD AT SANITARY SEWER LINE NO. 3 SHALL BE REMOVED AND REPLACED BY THE GOLF COURSE SUPERINTENDENT. ALL COSTS FOR SEEDING AND SODDING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
 - EASEMENTS AND RIGHT-OF-WAY 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 RIGHTS-OF-WAY 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 DIRECTLY ADJACENT TO 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. ALL COSTS FOR BACKFILL SHALL BE CONSIDERED SUBSIDIARY TO PRICE BID FOR PIPE IN PLACE.
 - THE CONTRACTOR SHALL KEEP ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION.
 - TOP ELEVATIONS FOR MANHOLES ARE APPROXIMATE ONLY. MANHOLE TOPS SHALL BE SET AT 0.4' ABOVE FINISH GRADE AS DIRECTED BY THE ENGINEER.
 - 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 "SITE CLEARING AND RESTORATION".
 - WHERE TREE TRIMMING OR TREE REMOVAL IS REQUIRED OUTSIDE THE LIMITS OF THE GOLF COURSE, THE CONTRACTOR SHALL PERFORM SUCH WORK AS APPROVED BY THE ENGINEER. WHERE TREE TRIMMING OR TREE REMOVAL IS REQUIRED WITHIN OR ADJACENT TO THE GOLF COURSE, THE CONTRACTOR SHALL COORDINATE SUCH WORK WITH THE GOLF COURSE SUPERINTENDENT. COSTS FOR TREE/SHRUB REMOVAL AND TRIMMING REGARDLESS OF SIZE SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
 - ALL TREE TRIMMINGS OR TREES REMOVED SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. OFF SITE DISPOSAL AREA SHALL BE AS APPROVED BY THE ENGINEER.
 - WHERE RELOCATION, REMOVAL, OR ADJUSTMENTS TO THE GOLF COURSE IRRIGATION SYSTEM ARE REQUIRED DUE TO THE CONSTRUCTION OF THE SANITARY SEWER, THE GOLF COURSE SUPERINTENDENT SHALL PERFORM SUCH WORK. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION OPERATIONS WITH THE GOLF COURSE SUPERINTENDENT AT LEAST 1 WEEK PRIOR TO BEGINNING CONSTRUCTION IN THESE AREAS. RESTORATION OF THE IRRIGATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE GOLF COURSE SUPERINTENDENT.
 - AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION OF LINE NO. 3 FROM EXISTING MANHOLE C-8 TO MANHOLE 3-1, THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS AND DISCUSS CONSTRUCTION TECHNIQUES WITH THE GOLF COURSE MAINTENANCE SUPERINTENDENT. THE CONTRACTOR SHALL EXPEDITE CONSTRUCTION AND RESTORATION OPERATIONS THROUGH THIS AREA TO MINIMIZE INTERRUPTION OF THE GOLF COURSE OPERATIONS.
 - THE SANITARY SEWER CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH ANY OTHER CONTRACTORS THAT ARE ON SITE PERFORMING CONSTRUCTION ACTIVITIES.

RECORD DRAWING
 3-15-03

	No.	Revision	By	Date
	SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER			
	KEY MAP SANITARY SEWER IMPROVEMENTS THE PINNACLE AT CRESTVIEW PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	MDS, MDK	Job No.	34-91675-2	Sht. 2 of 14
Drawn by	TDS, CM	Date	March, 1992	

THE PINNACLE AT CRESTVIEW

SEDGWICK COUNTY, KANSAS



SCALE: 1"=100'
 ○ = IRON SET
 B.S.L. = BUILDING SETBACK LINE
 B.M. - 60d IN H.L.P. 275' WEST AND 40' SOUTH OF S 1/4 CORNER SEC. 14, T27S, R2E OF THE 6TH P.W. ELEV.=1368.72 M.S.L.

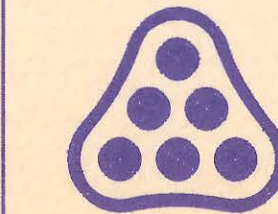
MINIMUM PAD ELEVATIONS (LOWEST OPENING) AS FOLLOWS:

Block	M.S.L.	CITY DATUM
Block 1	1330	142.60
Lots 12 Through 20	1330	142.60
Lots 21 Through 28	1319	131.60
Block 2	1331	143.60
ALL LOTS	1331	143.60

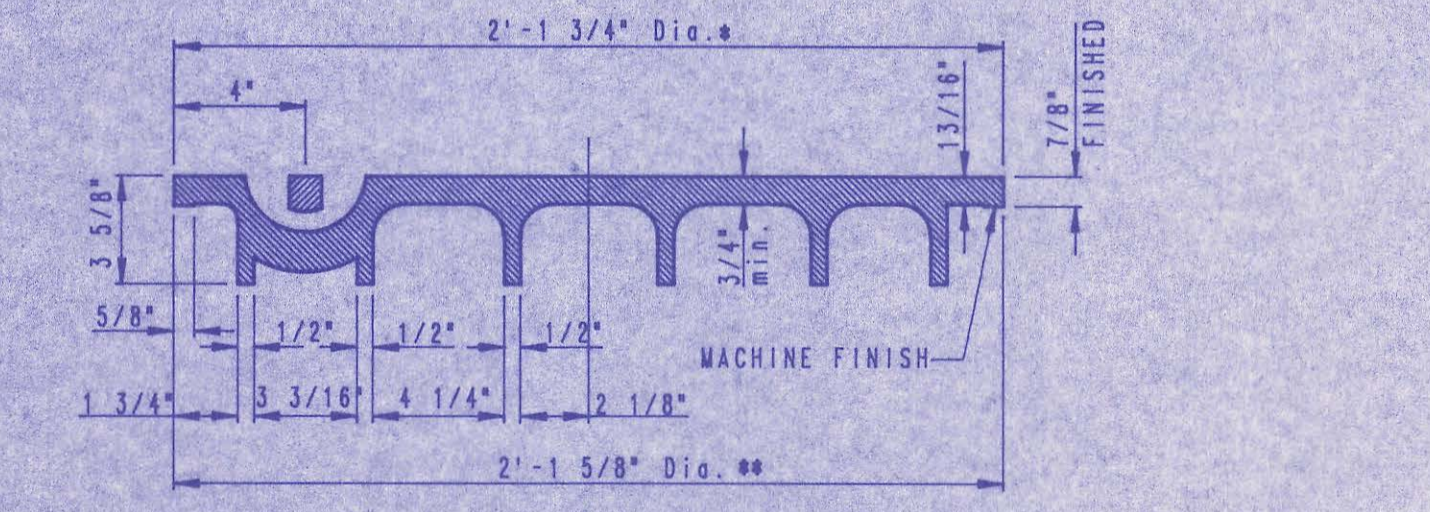
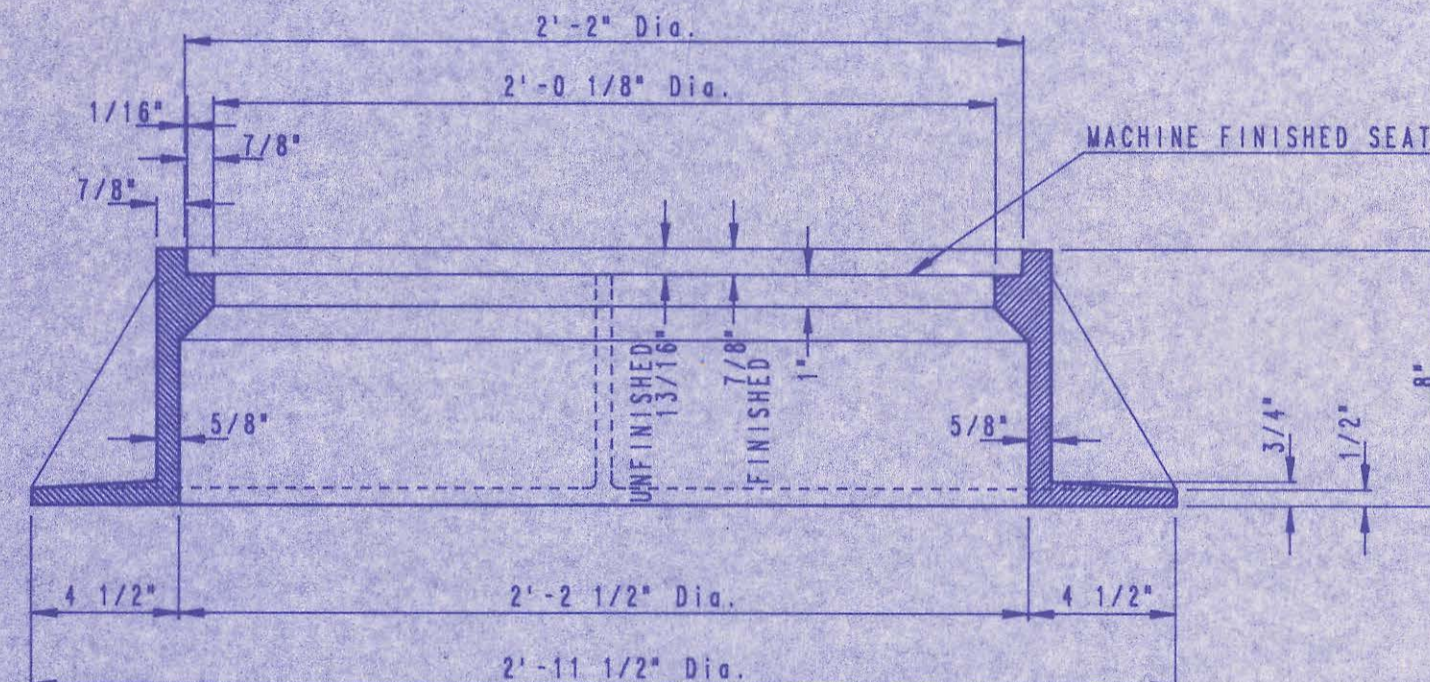
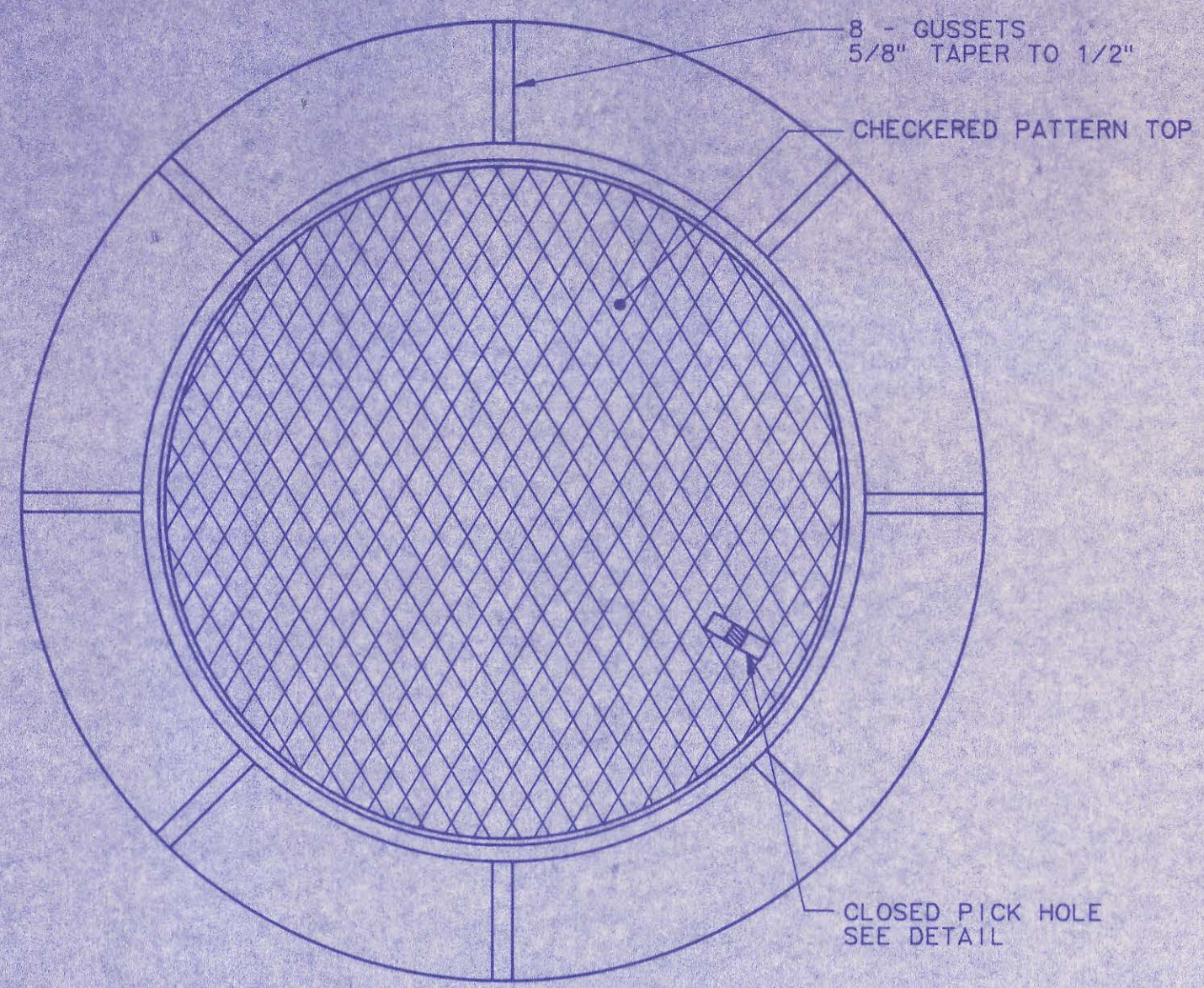
DAWING NAME: 34-91675-2 SS Plat
 CENTER COORDINATES: DNG-F141
 ROTATION ANGLE:
 DATE LAST WORKED ON:
 SPECIAL INSTRUCTIONS:

CRO. BY:
 DATE:

S 1/4 CORNER
 SEC. 14, T27S, R2E
 OF THE 6TH P.W.

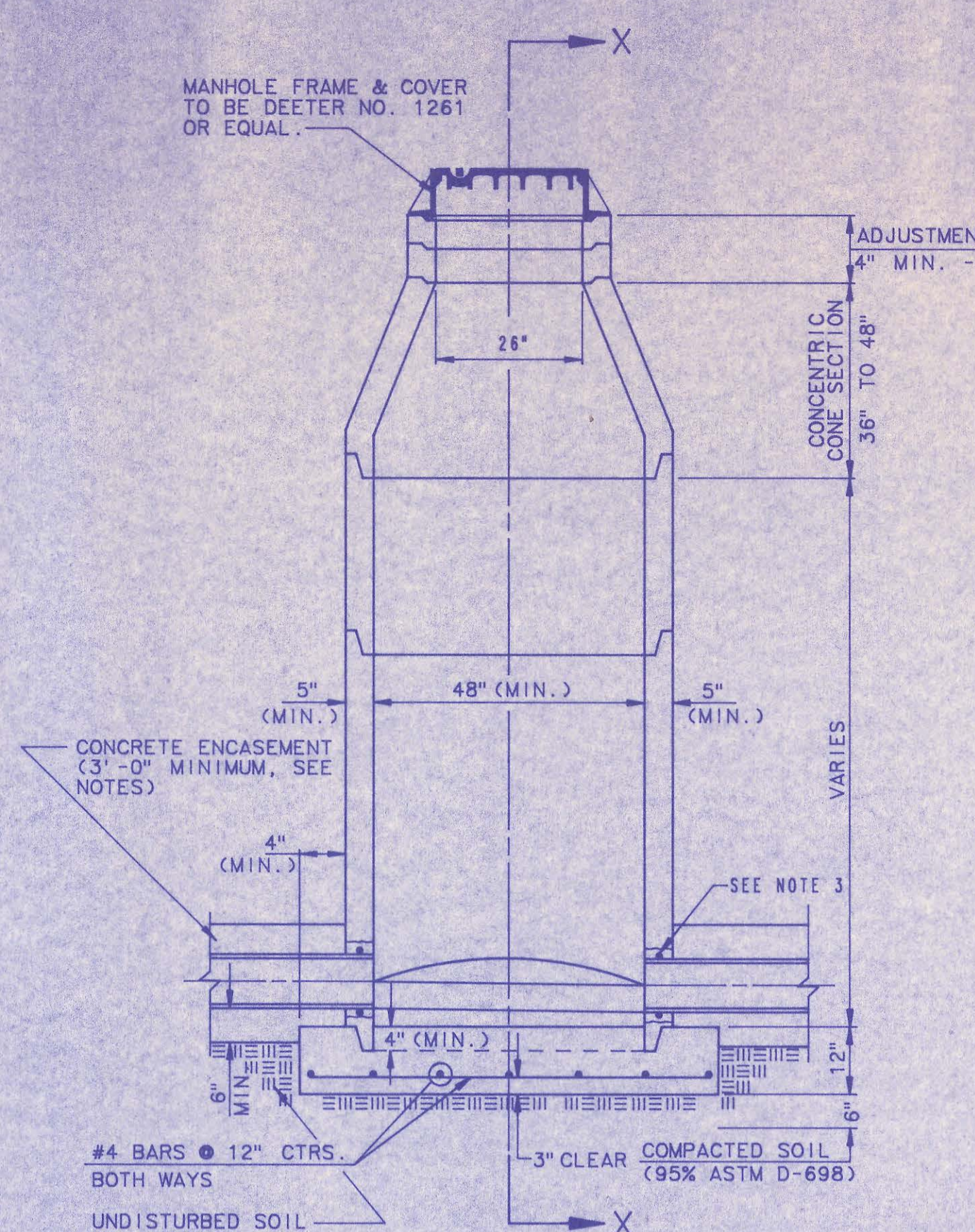
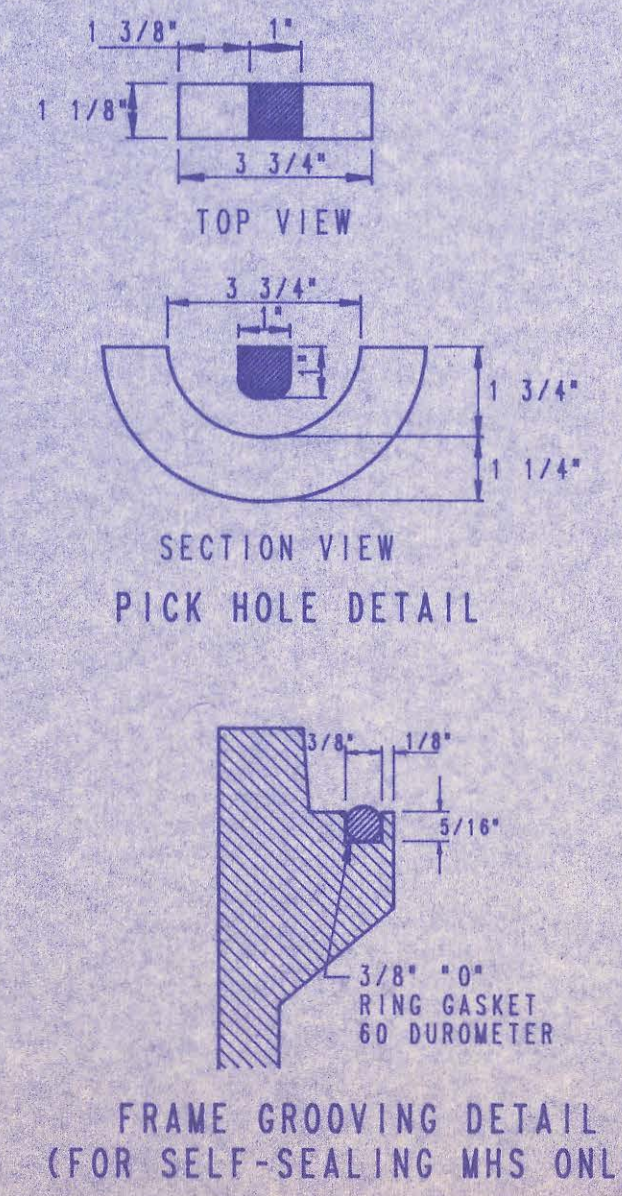


No.	Revision	By	Date
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER			
PLAT SANITARY SEWER IMPROVEMENTS THE PINNACLE AT CRESTVIEW PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	Job No. 34-91675-2	Sht. 3 of 14	
Drawn by DEP	Date March, 1992		

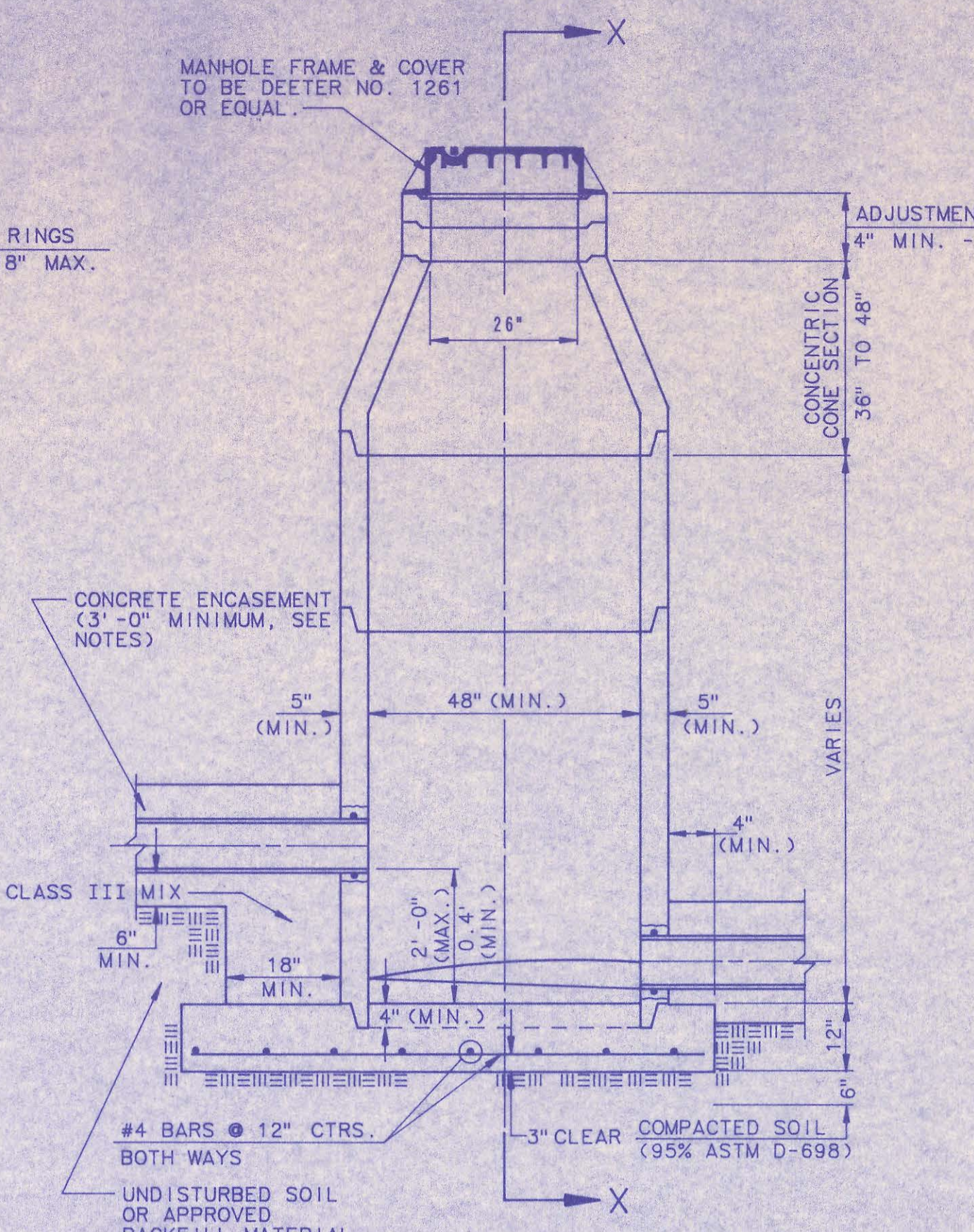


MANHOLE FRAME AND COVER
(TOTAL WEIGHT = 430 LBS.)

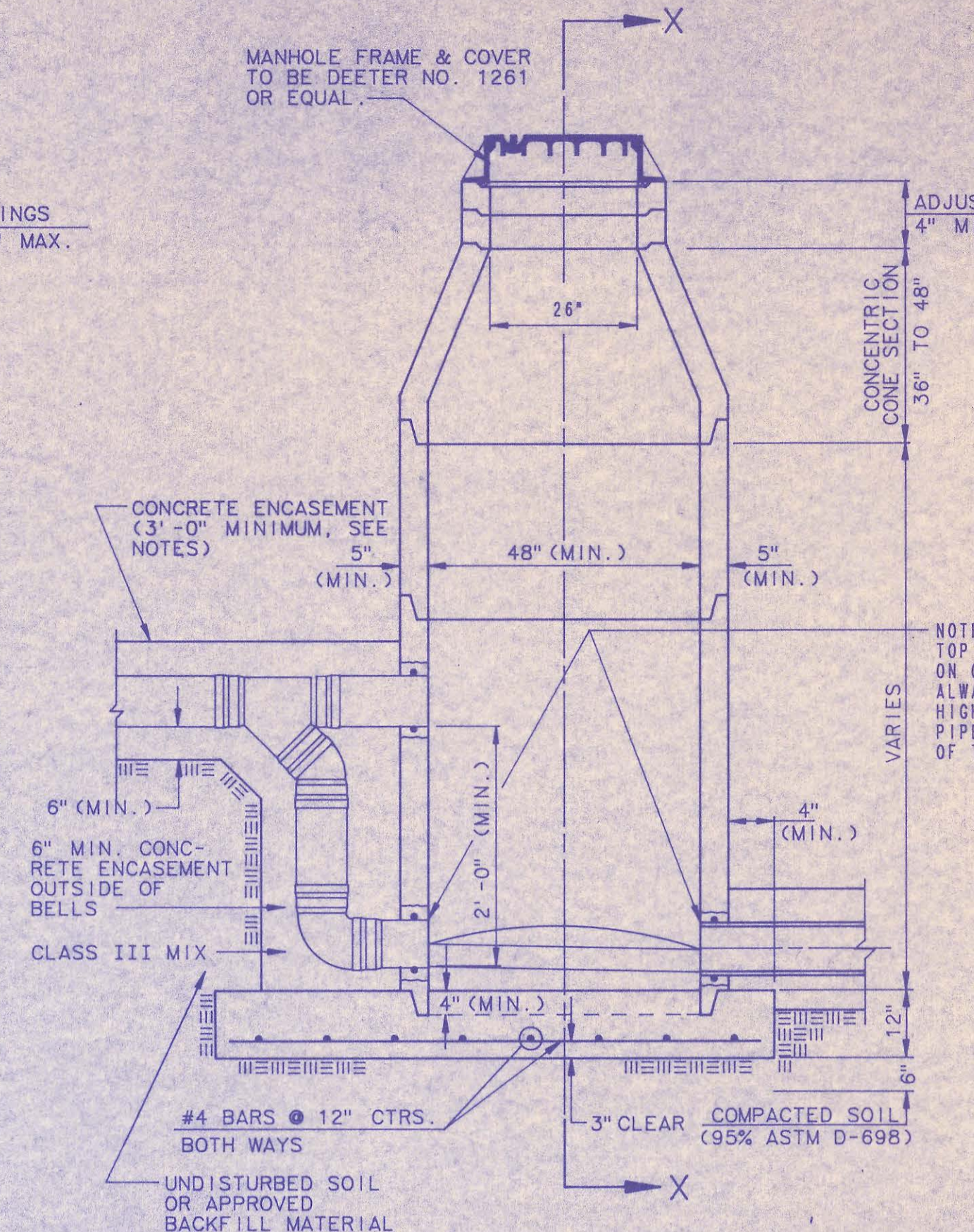
- MANHOLE FRAME AND COVER NOTES**
1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 35B, OR BETTER.
 2. THE FRAMES AND COVERS SHALL BE OF A NONROCKING TYPE OR WITH MACHINED BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
 3. MANHOLE CASTINGS SHALL BE DEETER FOUNDRY INC. NO. 1261 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. - 430 LBS.) ALL MANHOLE CASTINGS, REGARDLESS OF TYPE, SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
 4. GRIND ALL BURRS SMOOTH, CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
 5. 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.
 6. WHERE SELF-SEALING MANHOLE FRAMES ARE SPECIFIED ON THE PLANS, THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL NOT BE INSTALLED IN THE MANHOLE FRAME UNTIL AFTER FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE ENGINEER. THE CONTRACTOR SHALL SUPPLY TO THE OWNER ONE (1) REPLACEMENT "O" RING GASKET FOR EACH SELF-SEALING MANHOLE SPECIFIED.



PRECAST STANDARD MANHOLE TYPE "A"



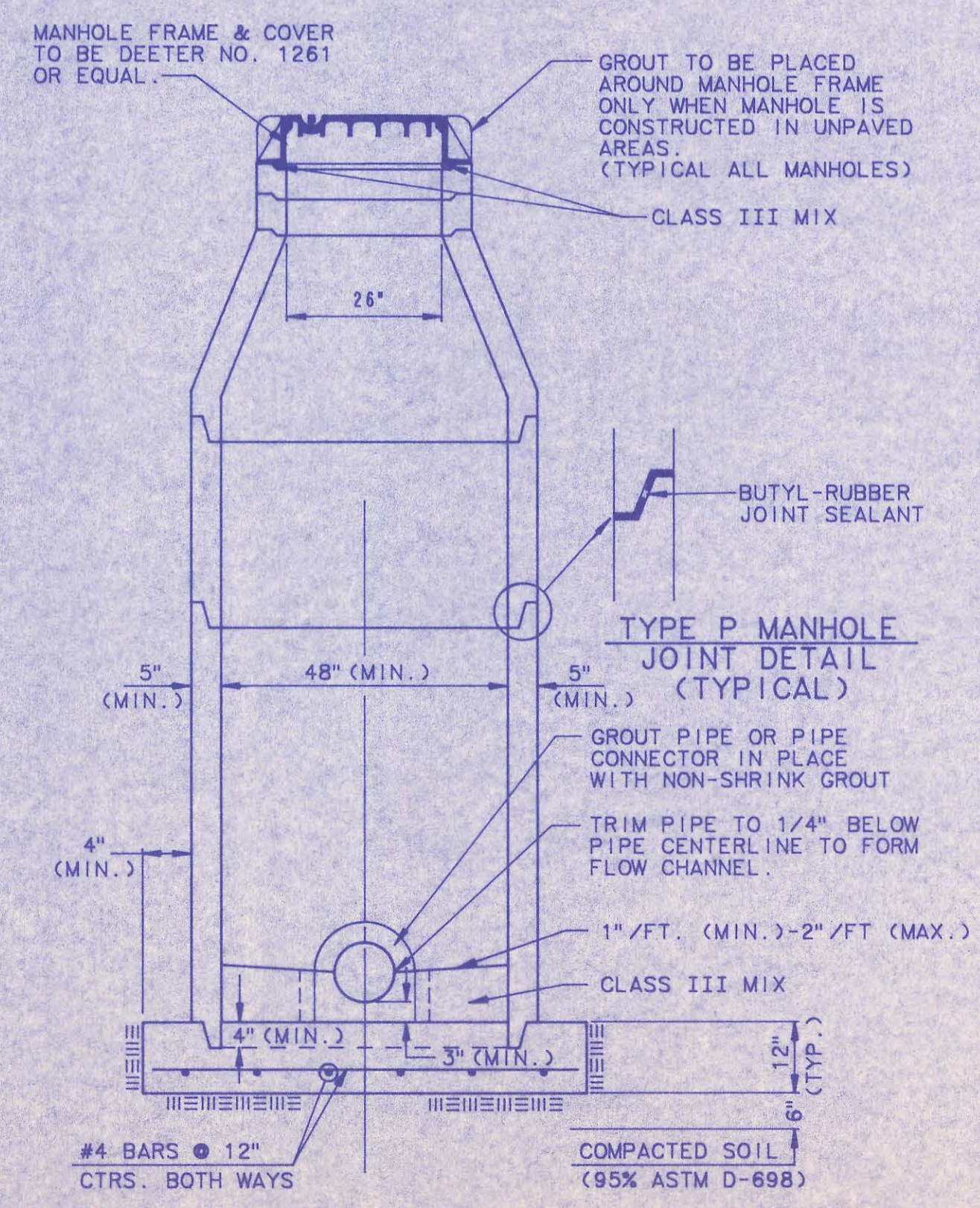
PRECAST INSIDE DROP MANHOLE TYPE "B"



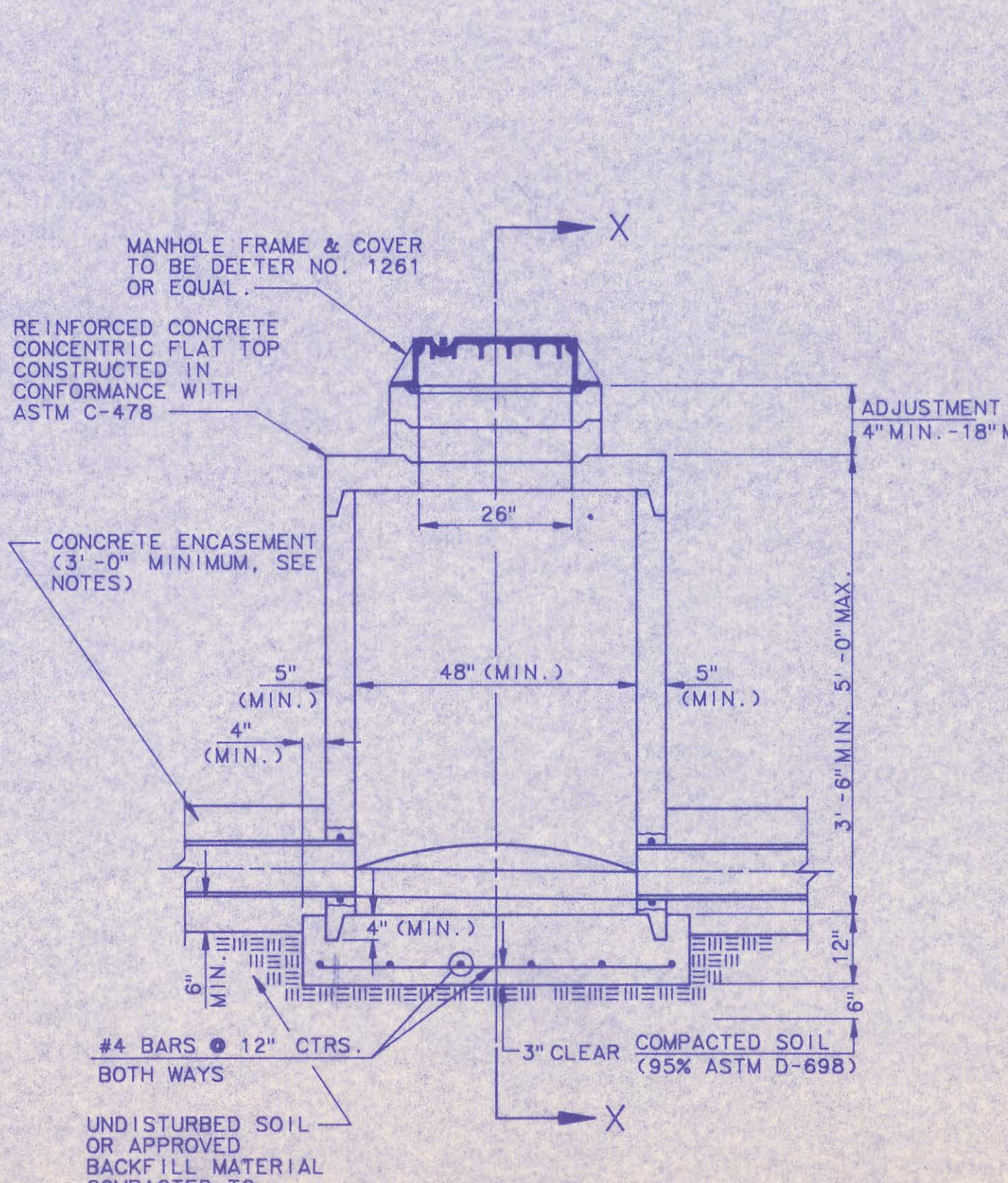
PRECAST OUTSIDE DROP MANHOLE TYPE "C"

PRECAST MANHOLE NOTES

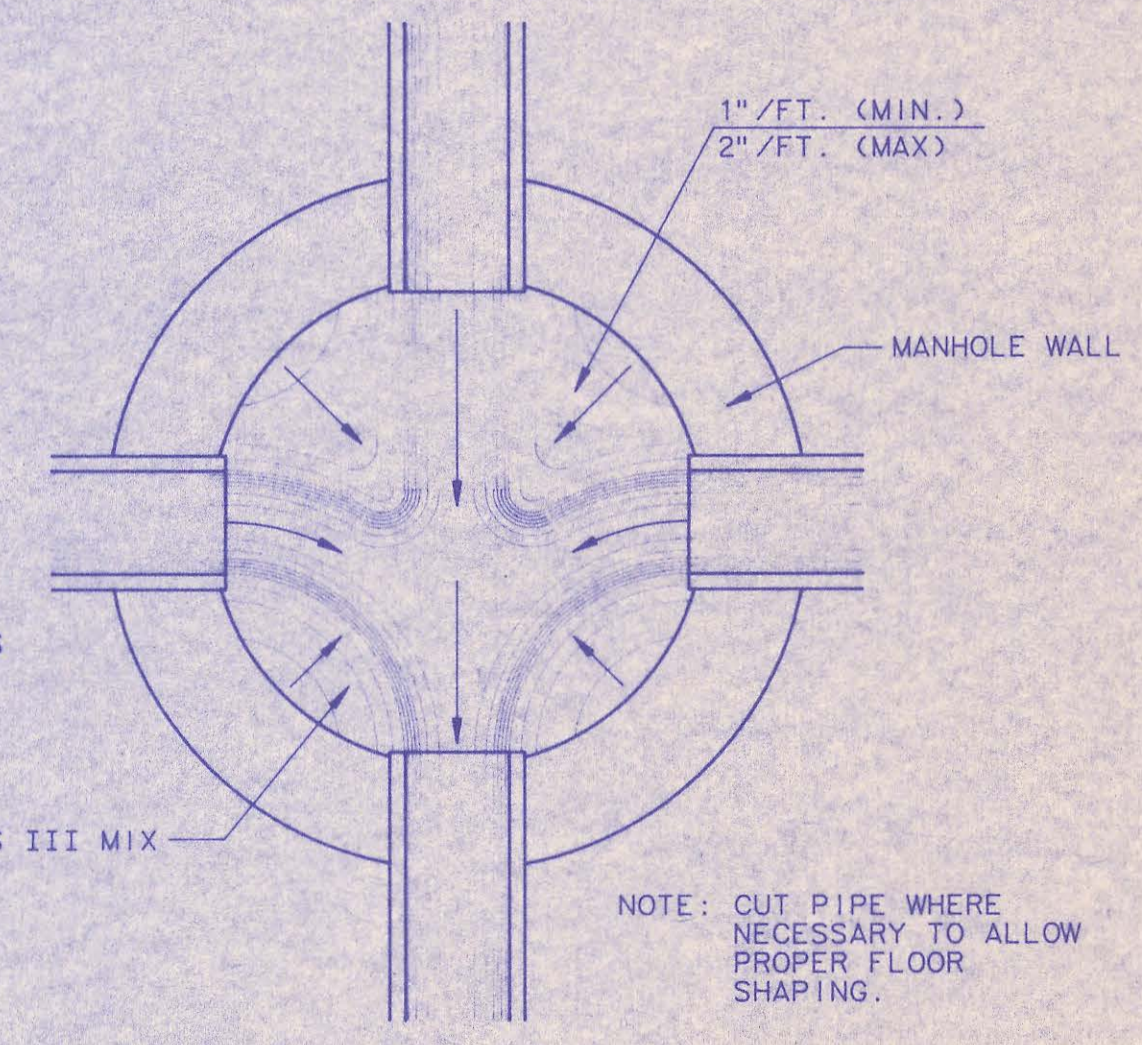
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN PLASTIC PIPE IS USED. SEWER PIPE EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
4. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING AND THE MANHOLE FRAME.
5. GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER.
6. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
7. 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.
8. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C478 AS MODIFIED BY THE SPECIFICATIONS.
9. CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
10. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
11. MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5' INSIDE DIAMETER (MIN.).
12. 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.



SECTION X (TYPICAL)



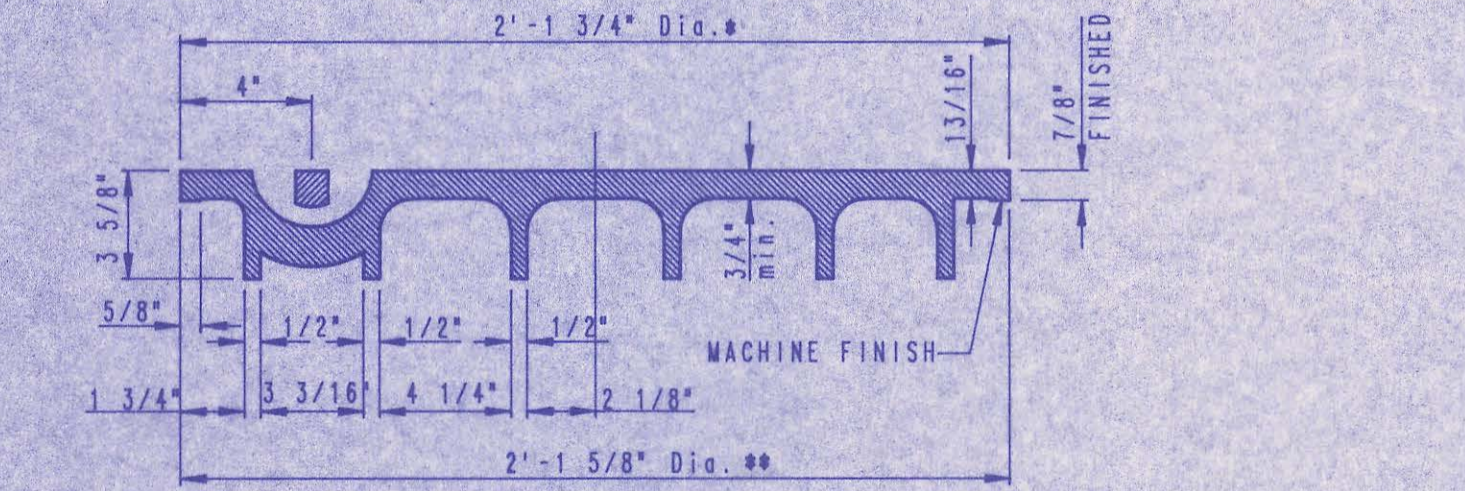
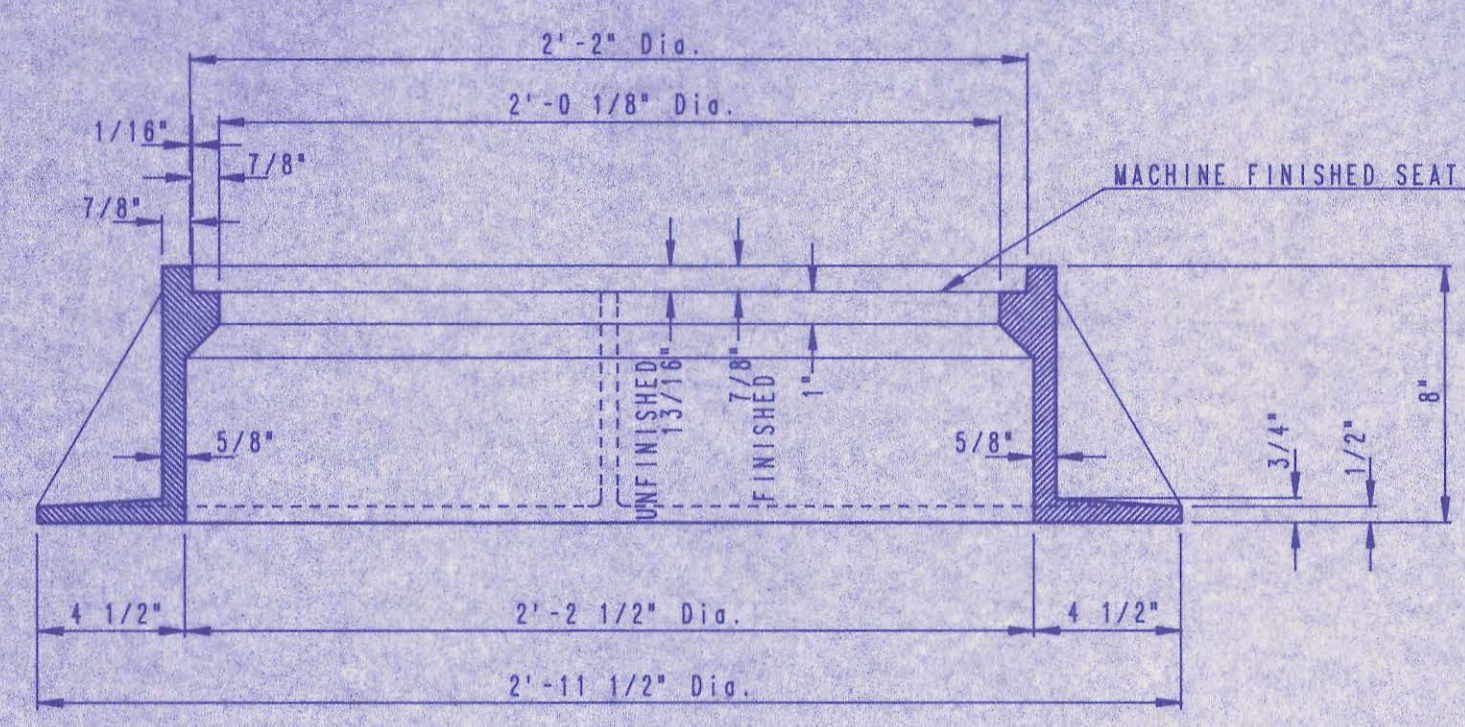
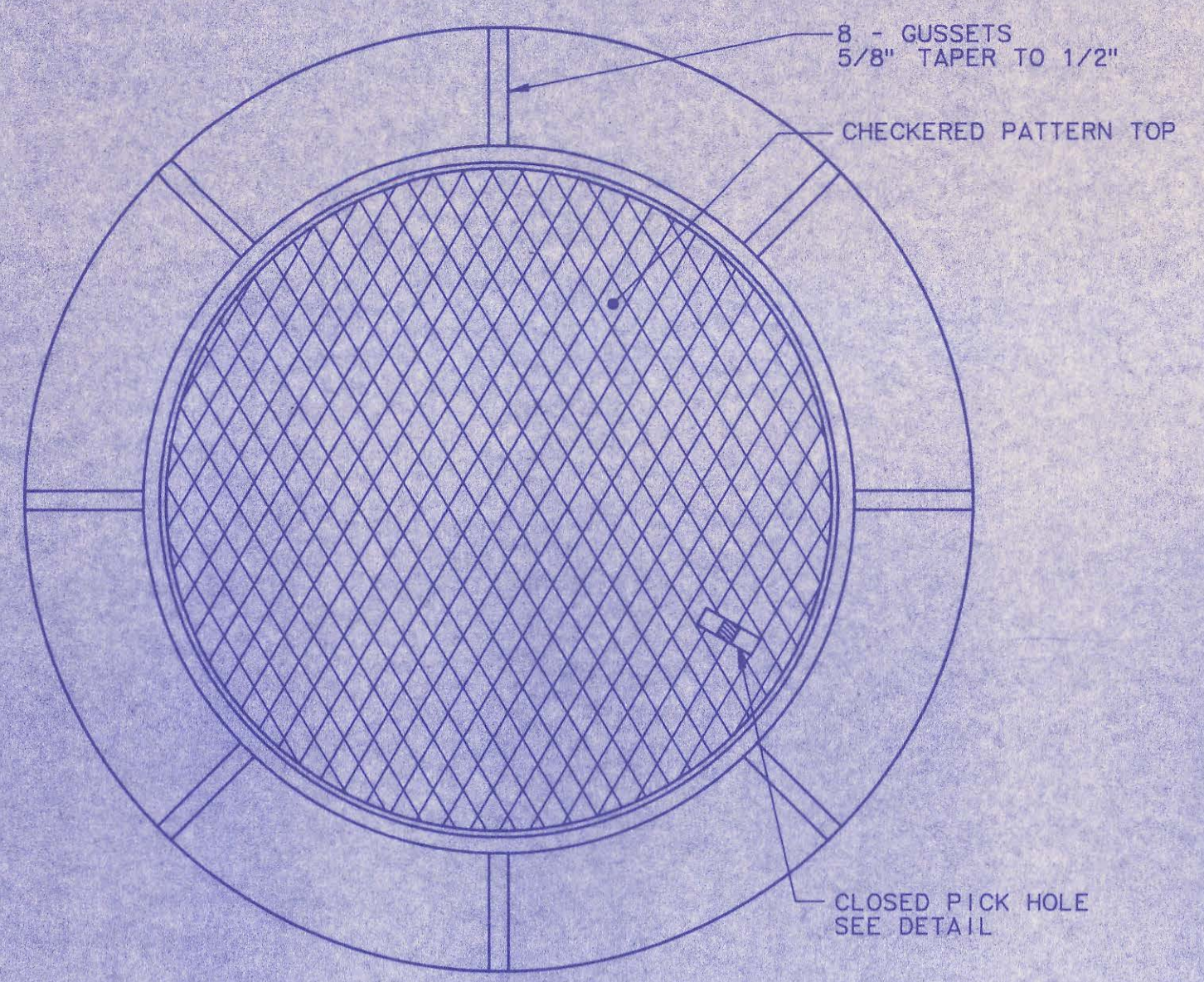
PRECAST SHALLOW MANHOLE TYPE "D"



TYPICAL MANHOLE FLOOR SHAPPING

DRAWING NAME: Precast MH Side
LOCATION: LOCAL DA DWG #003
CENTER COORDINATES:
ROTATION ANGLE: ON-JUL-16-1991
SPECIAL INSTRUCTIONS:

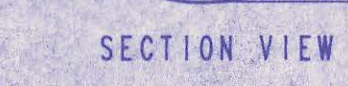
	1	Manhole Frame and Cover Note 1	RJ	7/16/91
	No.	Revision	By	Date
PRECAST MANHOLE DETAILS ADOPTED AS STANDARD DESIGN BY SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS				
Designed by	DLM	Job No.		
Drawn by	DLM, TDS	Date	NOVEMBER, 1990	Sht. 4 of 4



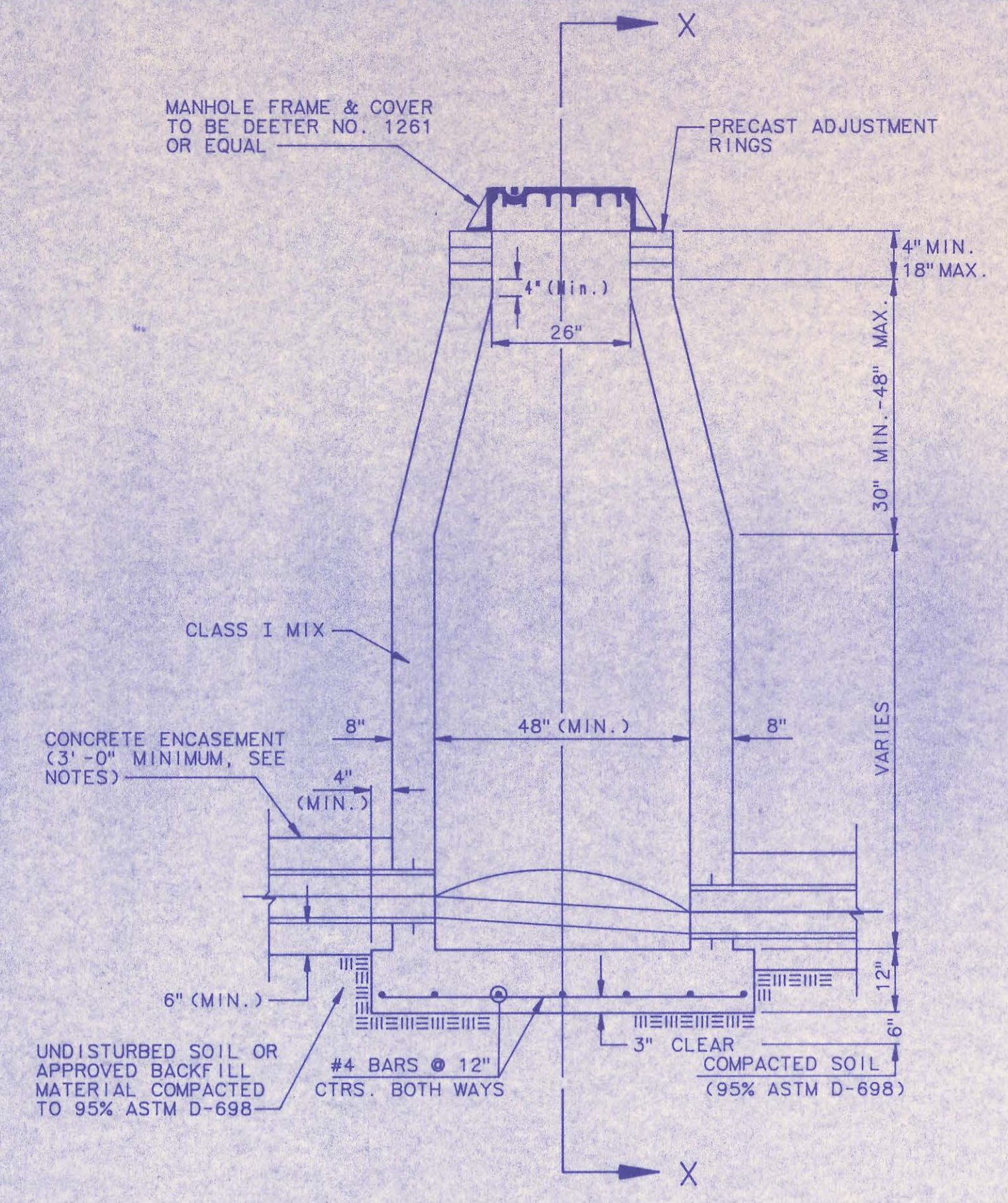
MANHOLE FRAME AND COVER
(TOTAL WEIGHT = 430 LBS.)

MANHOLE FRAME AND COVER NOTES

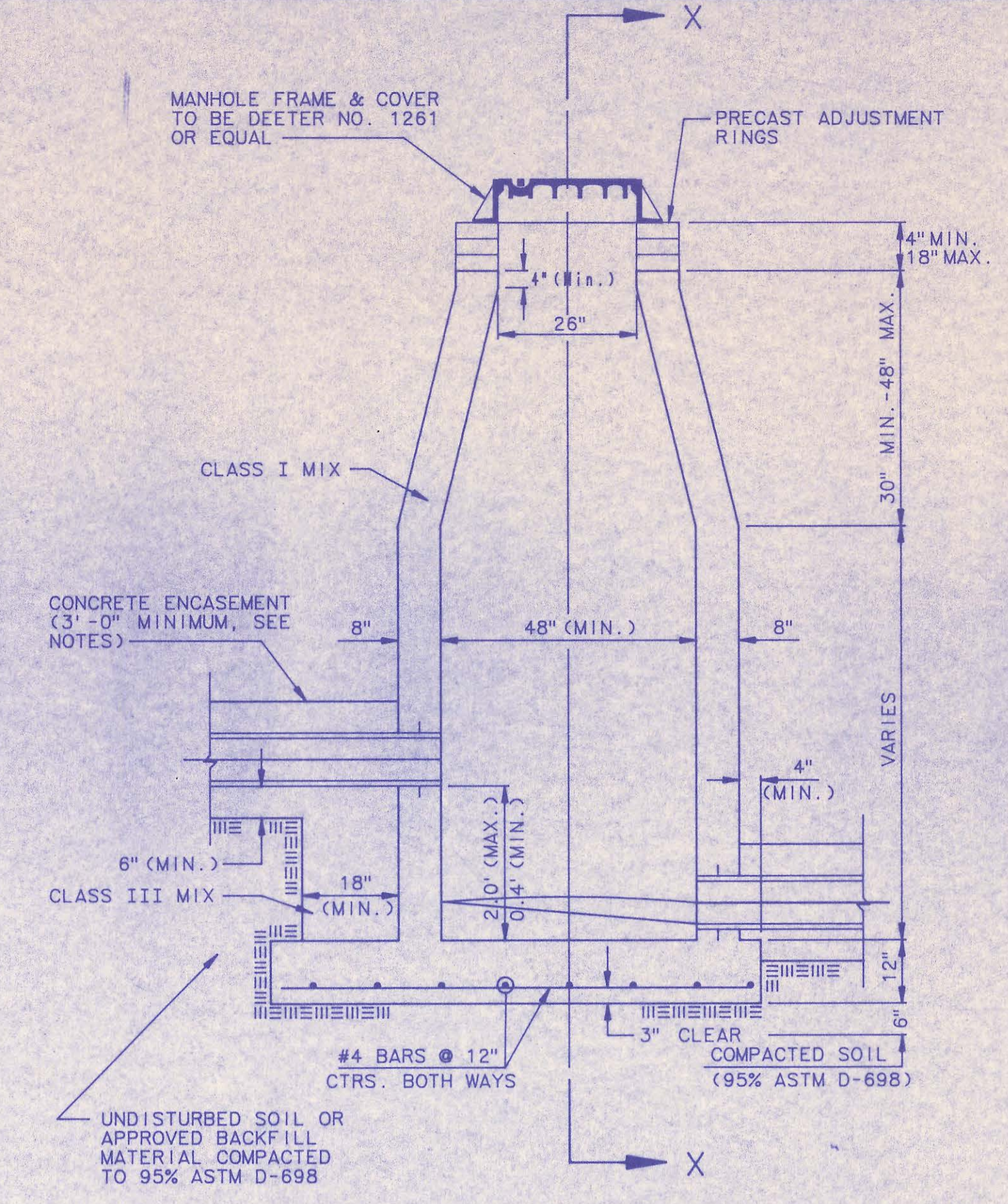
1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 35B, OR BETTER.
2. THE FRAMES AND COVERS SHALL BE OF A NONROCKING TYPE OR WITH MACHINED BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
3. MANHOLE CASTINGS SHALL BE DEETER FOUNDRY INC. NO. 1281 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. 430 LBS.) ALL MANHOLE CASTINGS, REGARDLESS OF TYPE, SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
4. GRIND ALL BURRS SMOOTH, CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
5. 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.
6. WHERE SELF-SEALING MANHOLE FRAMES ARE SPECIFIED ON THE PLANS, THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL NOT BE INSTALLED IN THE MANHOLE FRAME UNTIL AFTER FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE ENGINEER. THE CONTRACTOR SHALL SUPPLY TO THE OWNER ONE (1) REPLACEMENT "O" RING GASKET FOR EACH SELF-SEALING MANHOLE SPECIFIED.



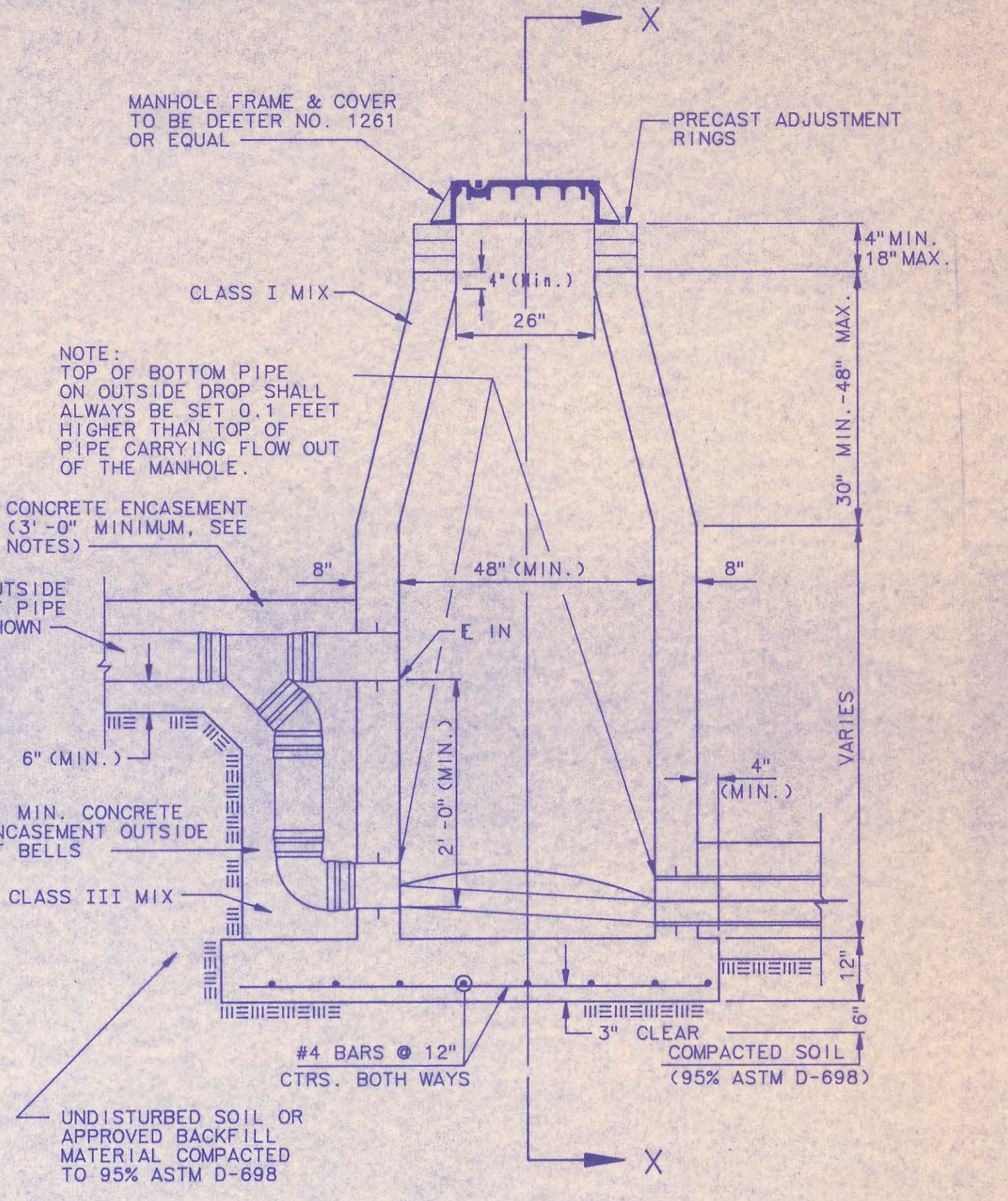
FRAME GROOVING DETAIL
(FOR SELF-SEALING MHS ONLY)



CAST IN PLACE STANDARD MANHOLE TYPE "A"



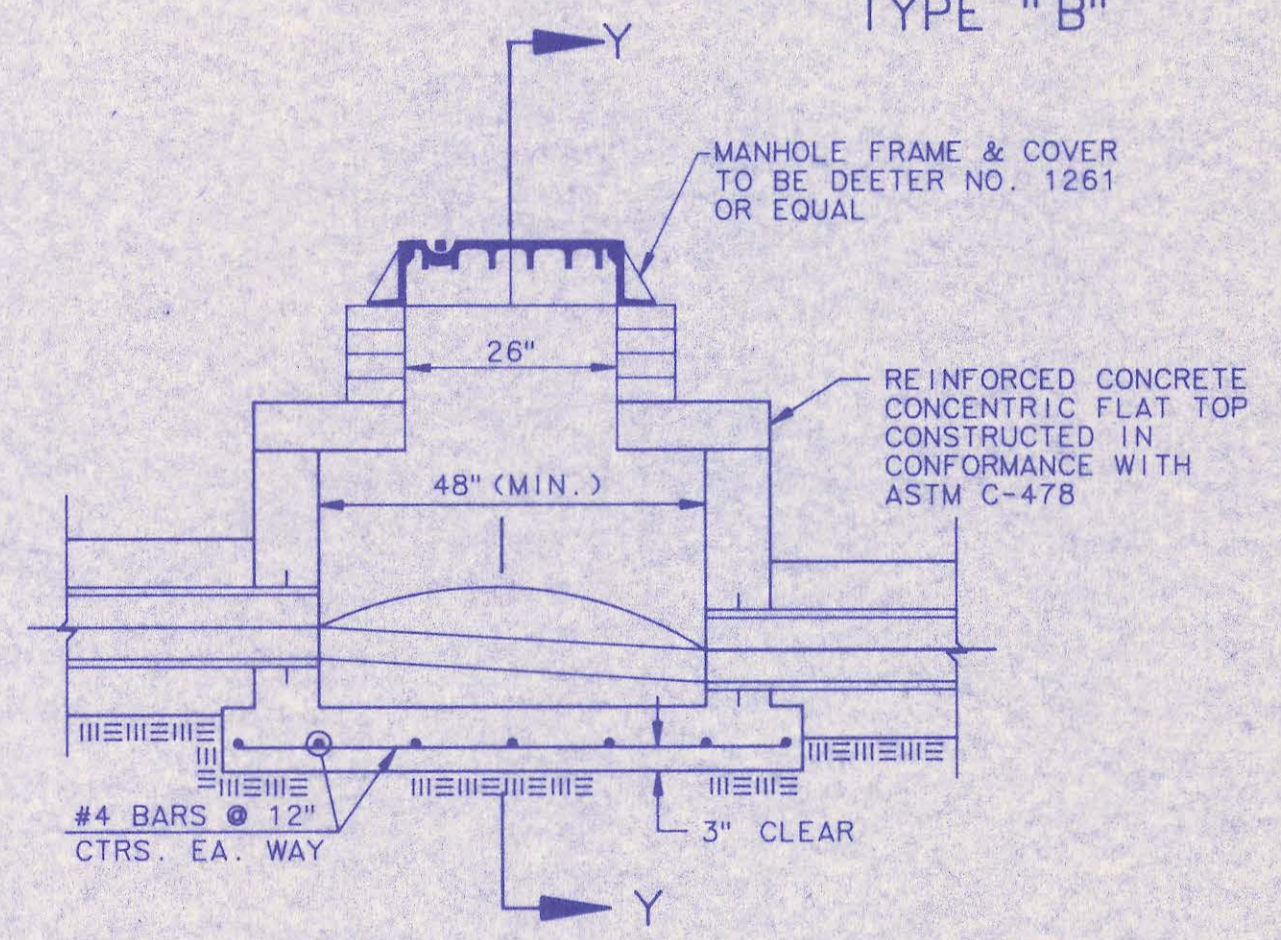
CAST IN PLACE DROP MANHOLE TYPE "B"



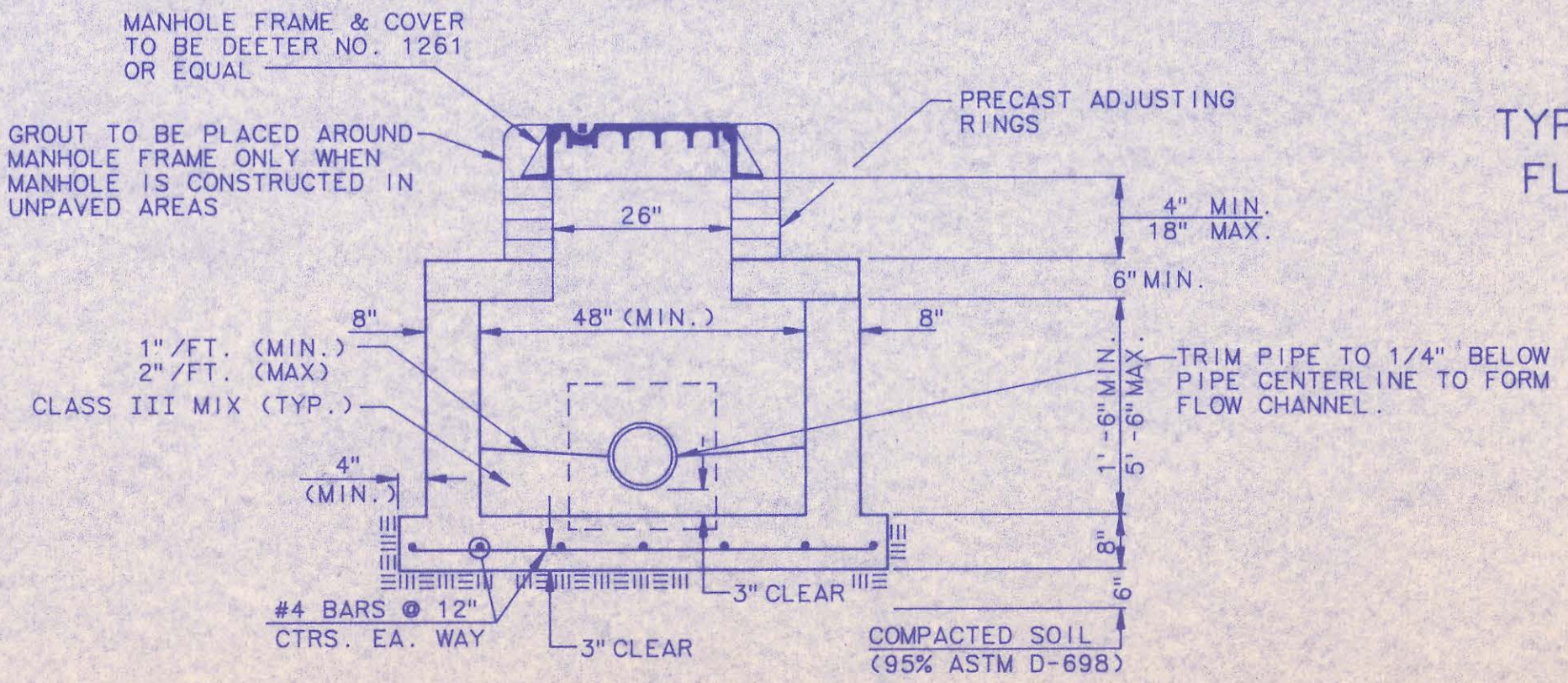
CAST IN PLACE OUTSIDE DROP MANHOLE TYPE "C"

CAST-IN-PLACE MANHOLE NOTES

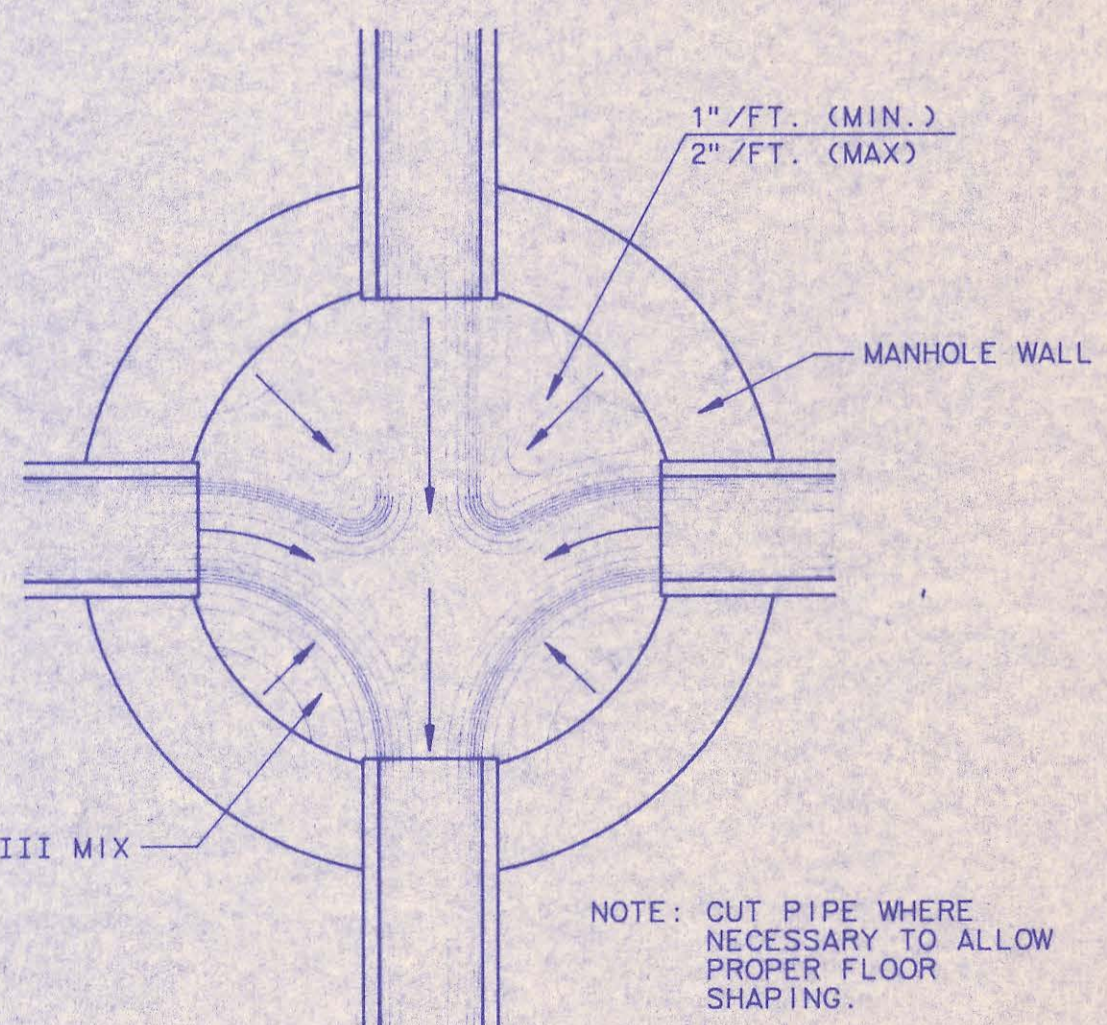
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. WHEN OPENINGS ARE CUT IN MANHOLE WALLS FOR PIPE, THE PIPE OR PIPE CONNECTOR SHALL BE GROUDED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION SHALL BE SEALED WITH APPROVED COATINGS.
4. CAST-IN-PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATIONS WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.
5. APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN ABS COMPOSITE PIPE OR PVC PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
6. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING OR BRICK MASONRY COLLAR AND THE MANHOLE FRAME.
7. GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER.
8. CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
9. MANHOLES WITH PIPE SIZES LARGER THAN 15" SHALL HAVE 5" INSIDE DIAMETER.



SHALLOW MANHOLE TYPE "D"



SECTION Y



TYPICAL MANHOLE FLOOR SHAPPING

DRAWING NAME: Precast-in-Pl. MH Sids
LOCATION: LOCAL 04 DWG. #498
CENTER COORDINATES:
ROTATION ANGLE:
DATE LAST WORKED ON: JUL. 16, 1991
SPECIAL INSTRUCTIONS:

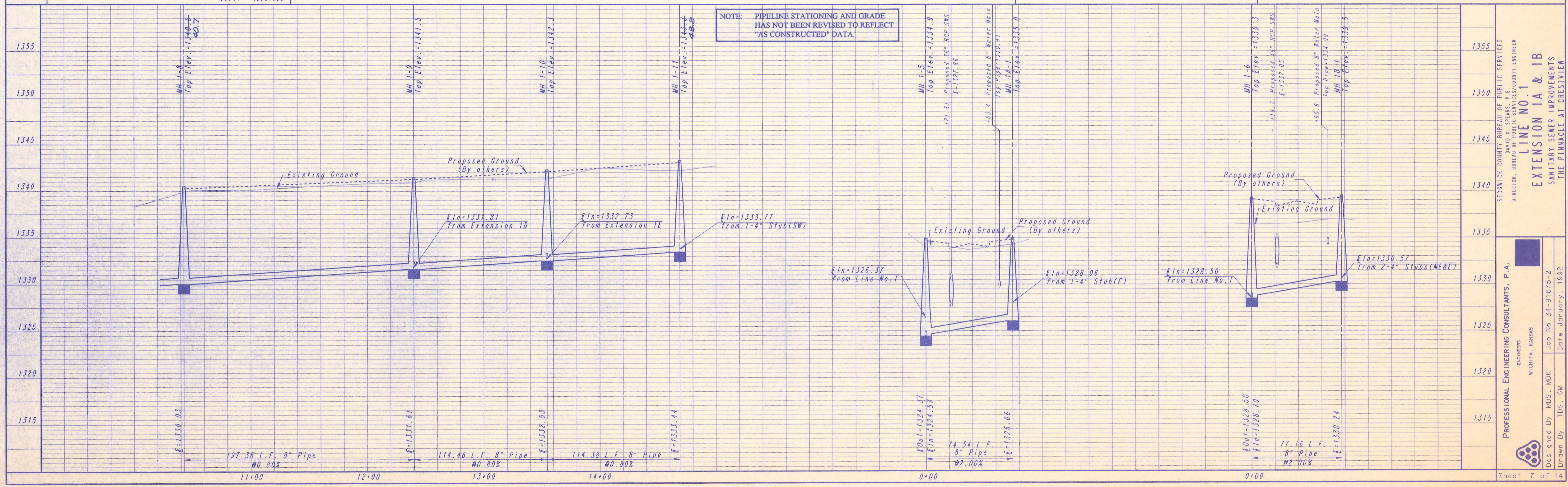
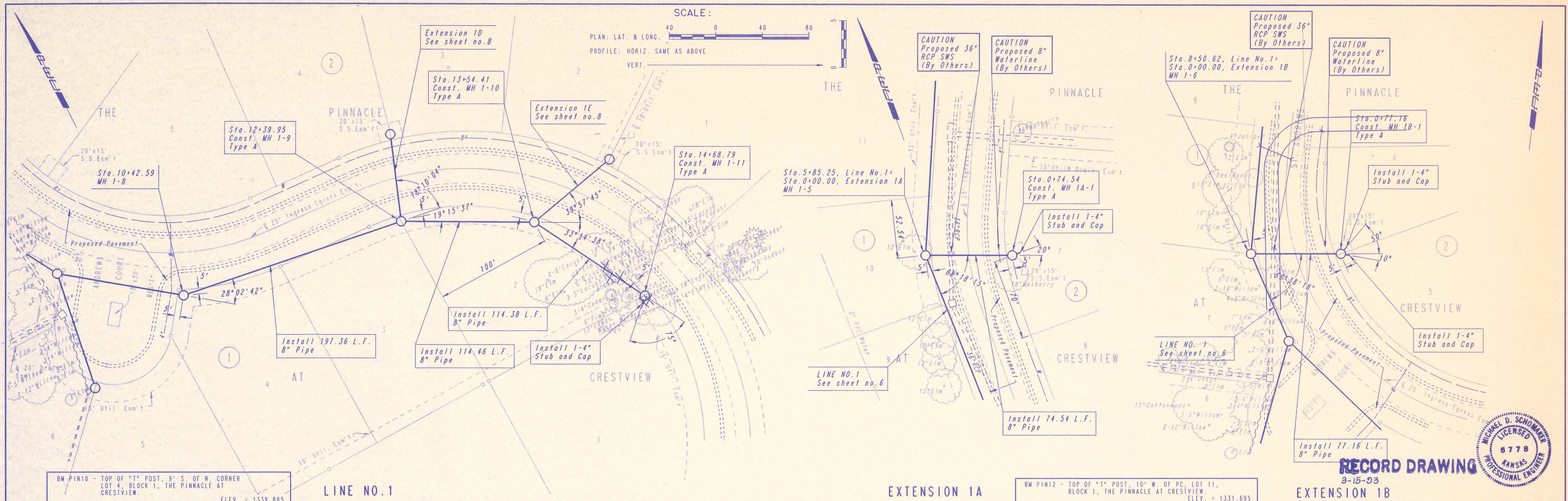


1	Manhole Frame and Cover Note 1	RJ	7/16/91
No.	Revision	By	Date
CAST-IN-PLACE MANHOLE DETAILS ADOPTED AS STANDARD DESIGN			
BY SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	DLM	Job No.	
Drawn by	DMW, TDS	Date	NOVEMBER, 1990
			Sh. 5 of 14

DATE: 7/17/92
 BY: MDK
 CHECKED: []
 PLAN: []

DATE: 7/17/92
 BY: MDK
 CHECKED: []
 PROFILE: []

DRAWING NAME: 34-91675-2-SS-PP2
 LOCATION: LOCAL EA DWG #943
 CENTER COORDINATES:
 DATA POINT MARKED ON: APR. 09, 1992
 SPECIAL INSTRUCTIONS:



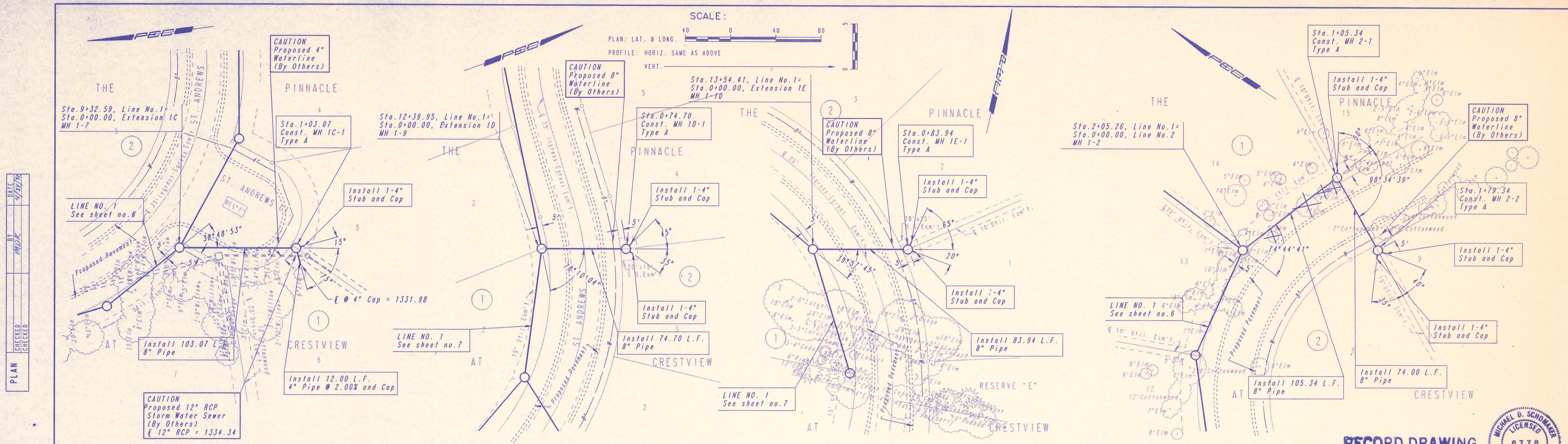
NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT "AS CONSTRUCTED" DATA.



RECORD DRAWING
 3-15-93

SENEGAL COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR: DAVID C. SPEARS, P.E.
 ENGINEER: MICHAEL D. SCHOMMER, P.E.
LINE NO. 1
EXTENSION 1A & 1B
 SANITARY SEWER IMPROVEMENTS
 THE PINNACLE AT CRESTVIEW

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Job No. 34-91675-2
 Date: January, 1992
 Designed By: MDS, MDK
 Drawn By: TDS, GM



DATE	9/21/92
BY	MDK
CHECKED	CHECKED
PLAN	CHECKED

DATE	9/21/92
BY	MDK
CHECKED	CHECKED
PROFILE	CHECKED

DRAWING NAME: 34-91675-2 SS PPS
 LOCATION: LOCAL EX. DWG. #947
 PROJECT: CRESTVIEW
 DATE LAST WORKED ON: APR. 22, 1992
 SPECIAL INSTRUCTIONS:

EXTENSION 1C

BM PIN4 - TOP OF #4 REBAR, APPROXIMATELY 95' NE OF THE SW CORNER OF LOT 6, BLOCK 1, THE PINNACLE AT CRESTVIEW. ELEV. = 1340.385

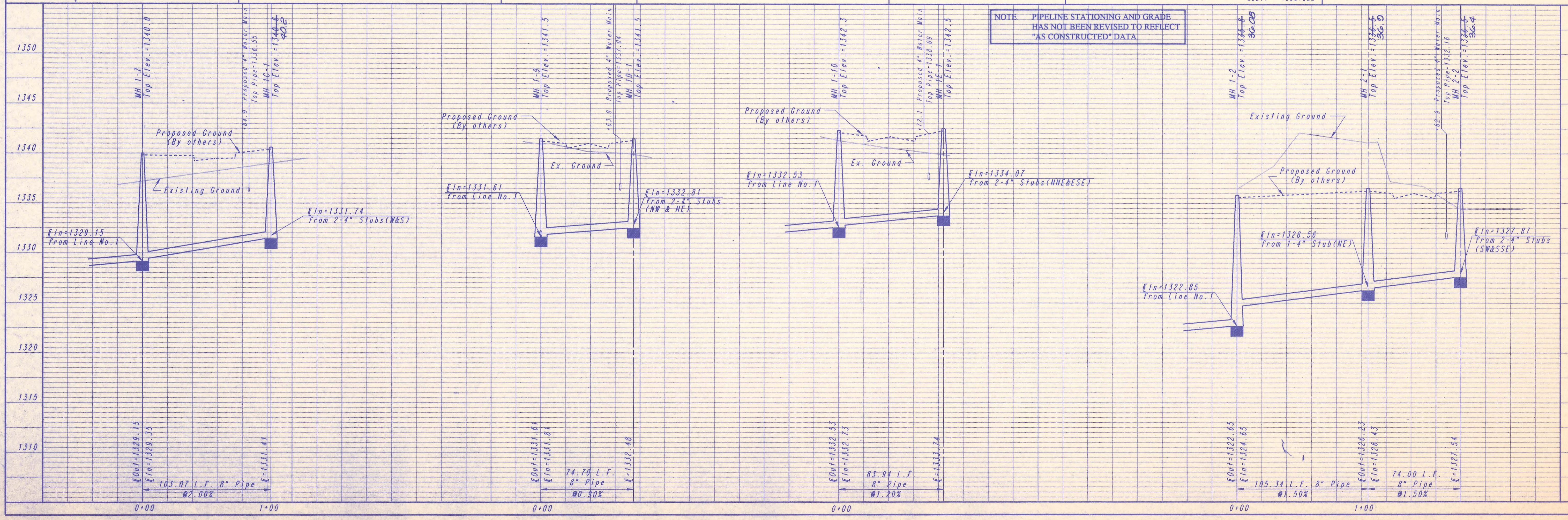
EXTENSION 1D

BM PIN10 - TOP OF "T" POST, 9' S. OF N. CORNER LOT 4, BLOCK 1, THE PINNACLE AT CRESTVIEW. ELEV. = 1339.885

EXTENSION 1E

BM PIN15 - TOP OF "T" POST, 10' N. OF W. PC, TOP 21, BLOCK 2, THE PINNACLE AT CRESTVIEW. ELEV. = 1335.525

LINE NO. 2



RECORD DRAWING
3-15-93

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR, DAVID C. STEARS, P.E.
 COUNTY ENGINEER

EXTENSION 1C, 1D, AND 1E
LINE NO. 2
 SANITARY SEWER IMPROVEMENTS
 THE PINNACLE AT CRESTVIEW

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS

Designed By: MDS, MDK
 Drawn By: TDS, GM
 Job No. 34-91675-2
 Date: January, 1992

Sheet 8 of 14

Sta. 0+00.00
Existing MH C-8
Break into existing brick MH and grout new 8" PVC pipe in place with nonshrink grout. Coat interior of existing MH with Strong Seal MS 2-A per manufacturers recommendations. See specifications for MH interior coating. Reshape MH floor as necessary to provide smooth flow. (See note below) All imperfections shall be filled in with a Quick-Set Hydraulic Cement prior to coating.

CAUTION !!
4" Irrigation Line

Remove and replace 6 L.F. Asphalt Cart Path in kind. Cost subsidiary to the lump sum price bid for "Site Clearing and Restoration."

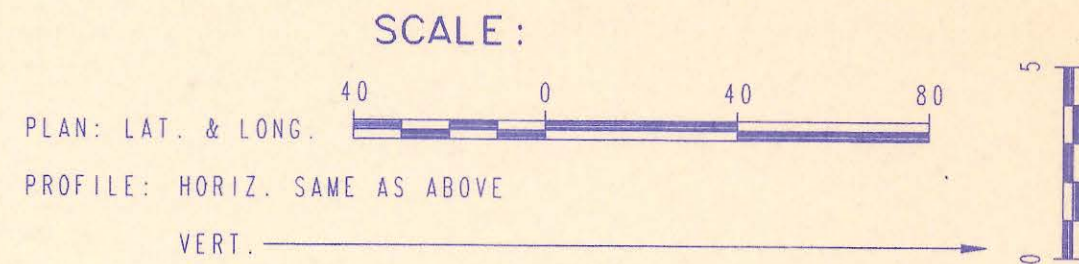
Sta. 6+46.77
Const. MH 3-2
Type A

Sta. 7+00.00
Const. MH 3-3
Type A

Install 1-4" Stub and Plug

Additional 5'x10' San. Sewer Easement

Install 1-4" Stub and Plug



NOTE:
Sewage flow out of the existing MH C-8 is partially blocked by concrete used to plug the abandoned pipeline shown. The Contractor shall remove the concrete as req'd. to provide smooth flow thru the MH. The abandoned pipeline shall remain plugged. All costs for this work, including installation of the new 8" PVC pipe and reshaping the MH floor shall be considered subsidiary to the unit price bid for Manhole Interior Coating.

Golf course sod removal and replacement and the adjustment of the 2" Irrigation line shall be by the Golf Course Superintendent. See General Notes, sheet no. 2.

Install 404.91 L.F. 8" PVC Pipe

LINE NO. 4
See sheet no. 12

EXTENSION 4A
See sheet no. 13

Install 146.50 L.F. 8" PVC Pipe

Install 241.86 L.F. 8" PVC Pipe

RECORD DRAWING
3-15-93

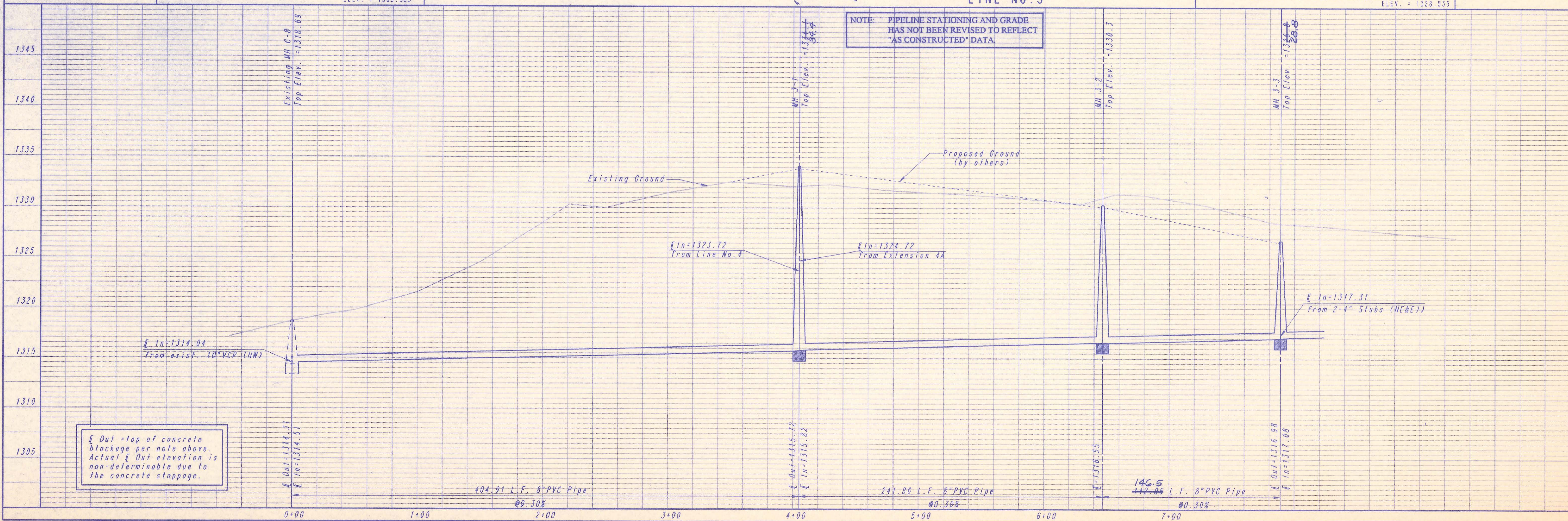


BM PIN13 - TOP OF "T" POST, 10' N. OF PC, LOT 18, BLOCK 1, THE PINNACLE AT CRESTVIEW. ELEV. = 1333.385

BM PIN14 - TOP OF "T" POST, 10' E. OF W. COMMON CORNER, LOT 24 AND 25, BLOCK 1, THE PINNACLE AT CRESTVIEW. ELEV. = 1328.535

LINE NO. 3

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT "AS CONSTRUCTED" DATA.



Out -top of concrete blockage per note above. Actual Out elevation is non-determinable due to the concrete stoppage.

PLAN	CHECKED	DATE
		4/27/92
	MDK	

PROFILE	CHECKED	DATE
		4/27/92
	MDK	

DRAWING NAME: 34-91675-2, SS NEW PP4
DRAWING NO.: 34-91675-2, DWG. 1118
CENTER COORDINATES:
ROTATION ANGLE:
DATE LAST WORKED ON: APR. 23, 1992
SPECIAL INSTRUCTIONS:

SEDWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E.
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LINE NO. 3

SANITARY SEWER IMPROVEMENTS
THE PINNACLE AT CRESTVIEW

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

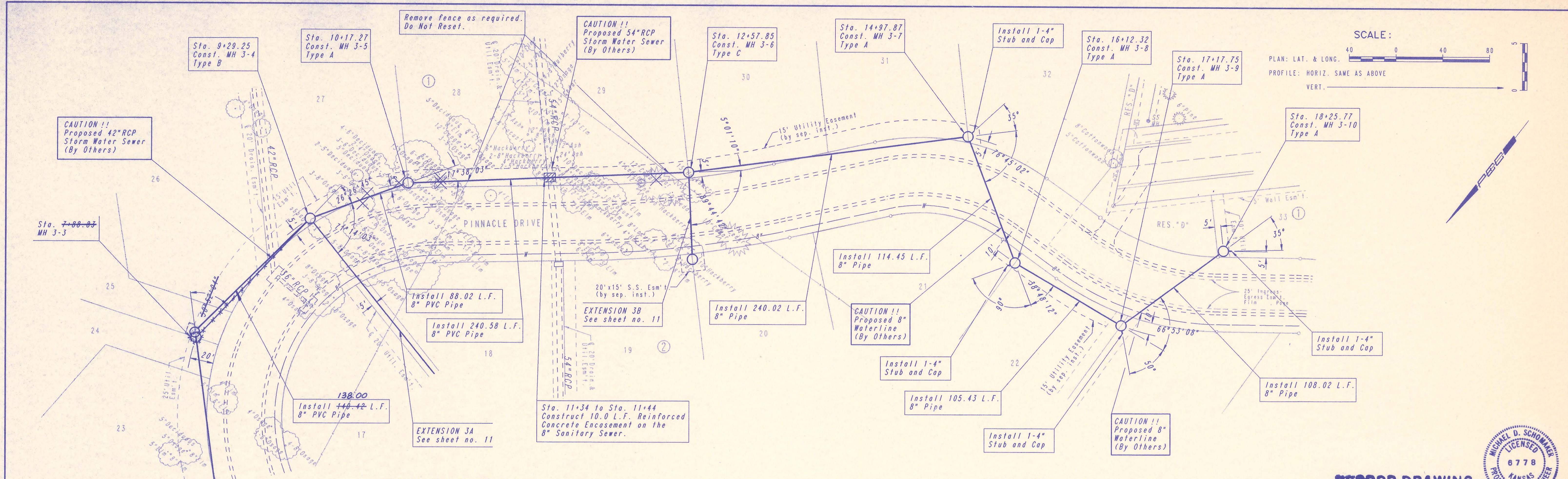
Job No. 34-91675-2
Date March, 1992

Designed By: MDK, MDK
Drawn By: TDS, GM

DATE: 7/24/92
 BY: MDK
 CHECKED: []
 PLAN

DATE: 9/24/92
 BY: MDK
 CHECKED: []
 PROFILE

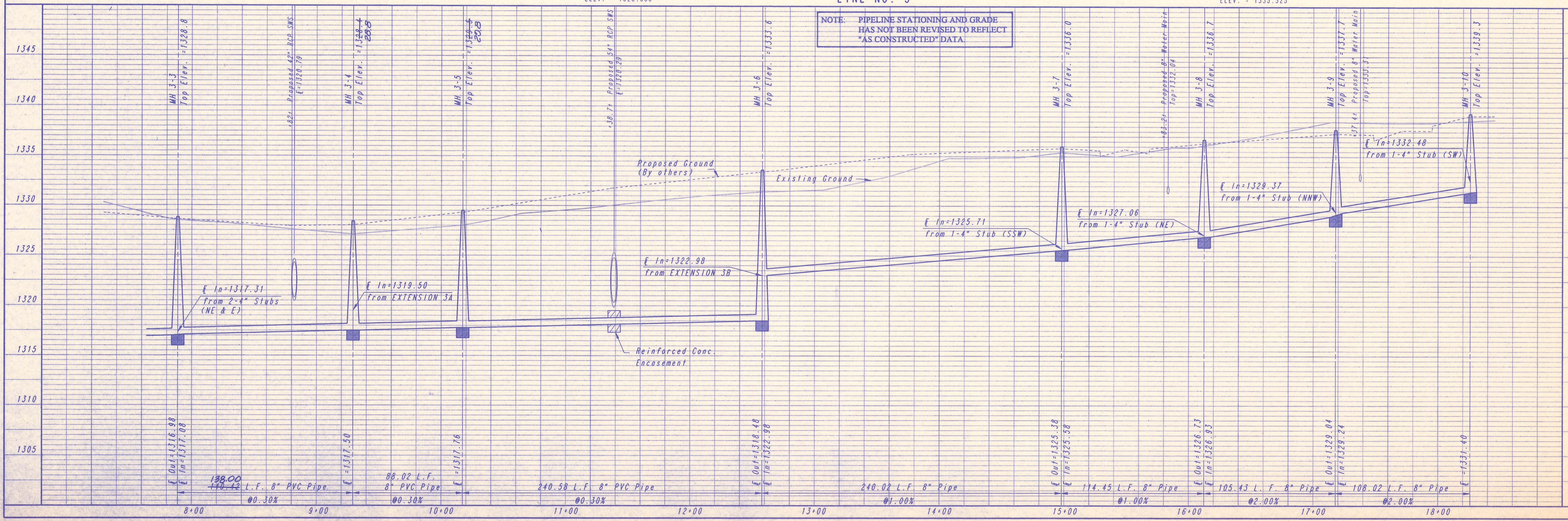
DRAWING NAME: 34-91675-2 SS NEW PPS
 LOCATION: LOCAL EA DWG #121
 CENTER COORDINATES:
 ROTATION ANGLE: 0°
 DATE: APR. 22, 1992
 SPECIAL INSTRUCTIONS:



BM PIN14 - TOP OF "I" POST, 10' E. OF W. COMMON CORNER, LOT 24 AND 25, BLOCK 1, THE PINNACLE AT CRESTVIEW. ELEV. = 1328.535

BM PIN15 - TOP OF "I" POST, 10' N. OF W. PC, TOP 21, BLOCK 2, THE PINNACLE AT CRESTVIEW. ELEV. = 1335.525

RECORD DRAWING
 3-15-93



SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS

Job No. 34-91675-2
 Date March, 1992

DESIGNED BY: MDS, MDK
 DRAWN BY: TDS, GM

SANITARY SEWER IMPROVEMENTS
 THE PINNACLE AT CRESTVIEW

LINE NO. 3

Sheet 10 of 14

DATE: 1/22/92
 BY: MDK
 CHECKED: []
 PLAN

DATE: 1/22/92
 BY: MDK
 CHECKED: []
 PROFILE

DRAWING NAME: 34-91675-2 SS NEW PG6
 LOCATION: LOCAL E&Dwg-1122
 CENTER COORDINATES:
 ROTATION ANGLE:
 DATE LAST WORKED ON: APR. 22, 1992
 SPECIAL INSTRUCTIONS:

Sta. 9+29.25, LINE NO. 3 =
 Sta. 0+00.00, EXTENSION 3A
 MH 3-4

LINE NO. 3
 See sheet no. 10

BM PIN14 - TOP OF "T" POST, 10' E. OF W. COMMON CORNER, LOT 24 AND 25, BLOCK 1, THE PINNACLE AT CRESTVIEW. ELEV. = 1328.535

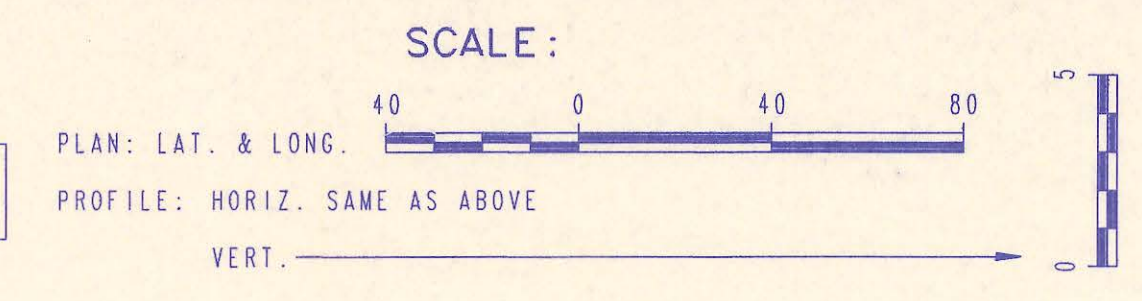
EXTENSION 3A

Remove fence as required. Do Not Reset.
 Sta. 2+45.56 Const. MH 3A-1 Type A

CAUTION !! Proposed 8" Waterline (By Others)

Install 245.56 L.F. 8" Pipe

Install 1-4" Stub and Cap



Sta. 12+57.85, LINE NO. 3 =
 Sta. 0+00.00, EXTENSION 3B
 MH 3-6

LINE NO. 3
 See sheet no. 10

BM PIN15 - TOP OF "T" POST, 10' N. OF W. PC, TOP 21, BLOCK 2, THE PINNACLE AT CRESTVIEW. ELEV. = 1335.525

EXTENSION 3B

CAUTION !! Proposed 8" Waterline (By Others)

Sta. 0+74.20 Const. MH 3B-1 Type A

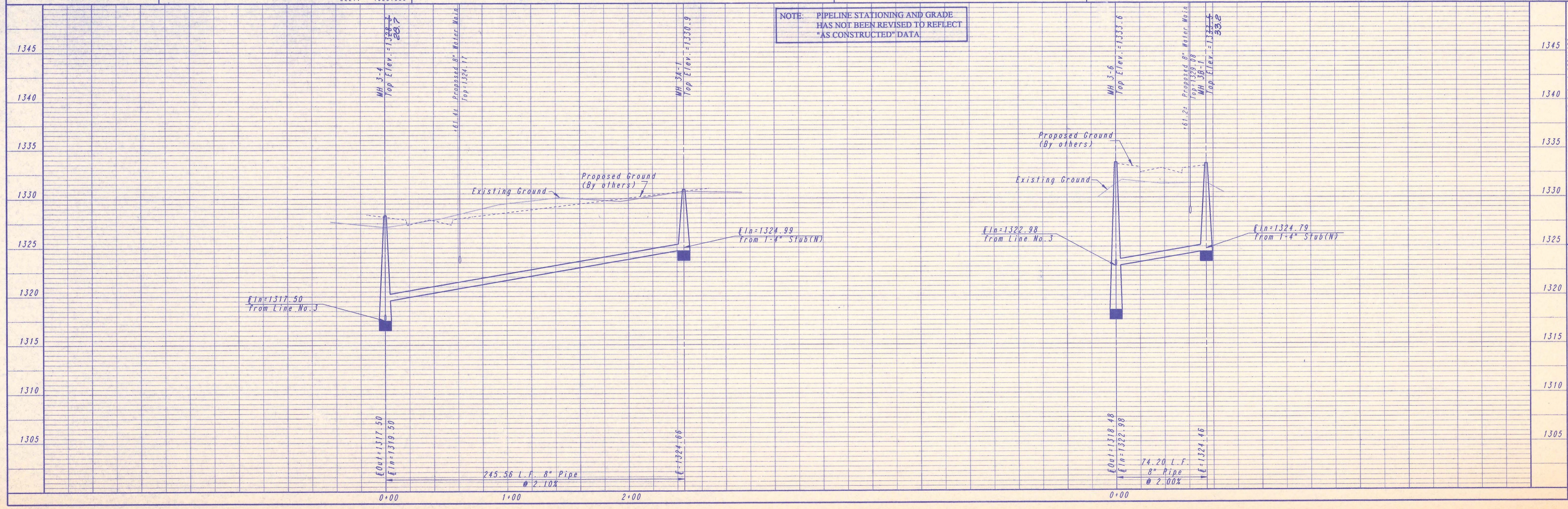
Install 1-4" Stub and Cap

20' x 15' S.S. Esm't. (by sep. instr.)

Install 1-4" Stub and Cap

Install 74.20 L.F. 8" Pipe

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT "AS CONSTRUCTED" DATA



RECORD DRAWING
 3-15-93

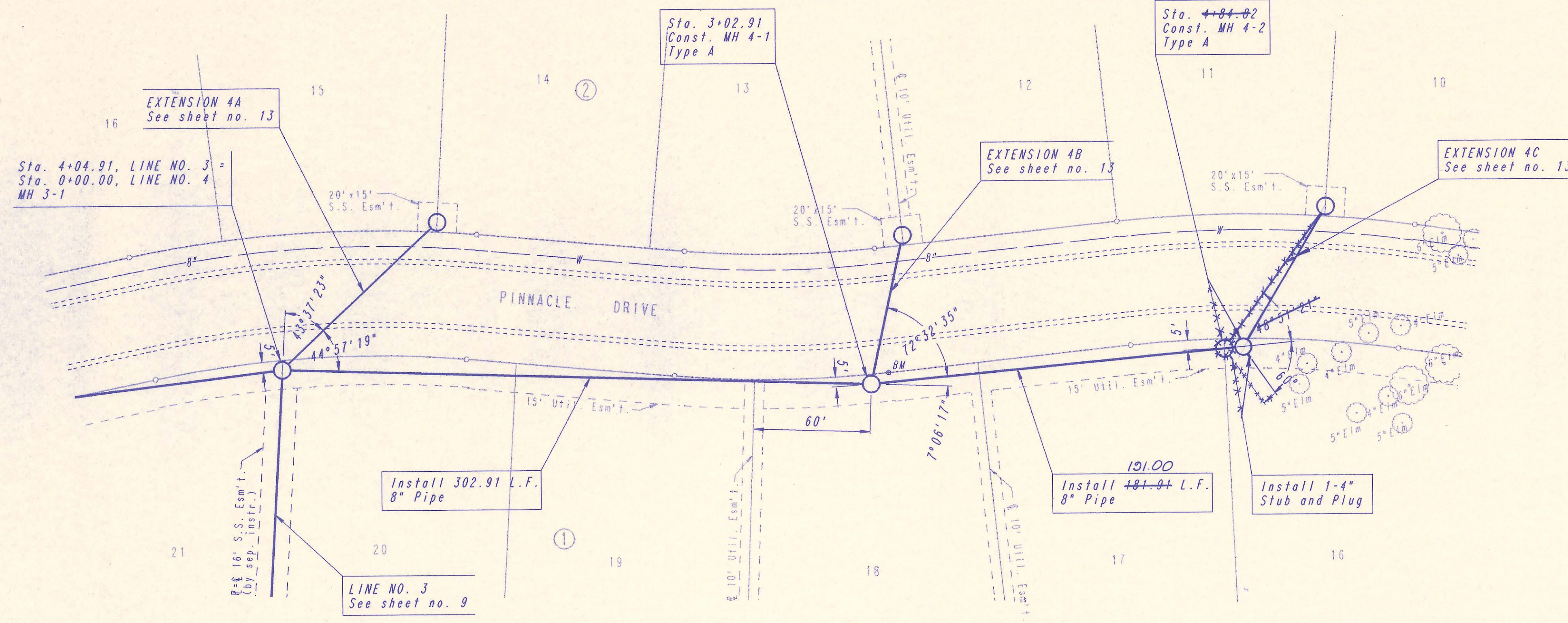
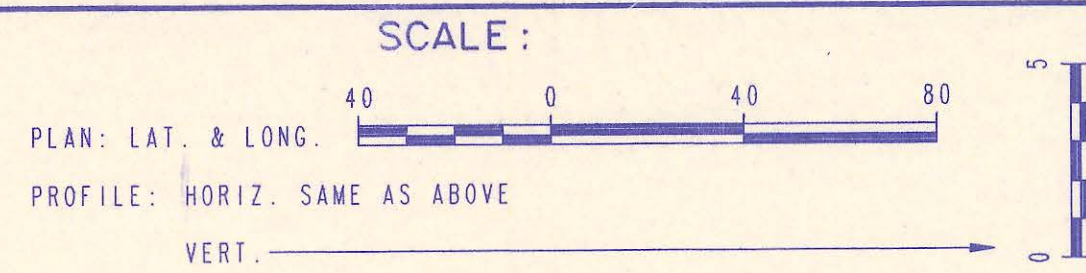


SEOWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
EXTENSIONS 3A & 3B
 SANITARY SEWER IMPROVEMENTS
 THE PINNACLE AT CRESTVIEW
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS
 Designed By: MDS, MDK Job No. 34-91675-2
 Drawn By: TDS, GM Date March, 1992
 Sheet 11 of 14

DATE: 4/24/92
 BY: MOK
 CHECKED: []
 PLAN: []

DATE: 4/24/92
 BY: MOK
 CHECKED: []
 PROFILE: []

DRAWING NAME: 34-91675-2 SS NEW PPT
 LOCATION: LOCAL E4 DWG. #123
 CENTER COORDINATES:
 ROTATION ANGLE:
 SPECIAL INSTRUCTIONS: APR. 22, 1992

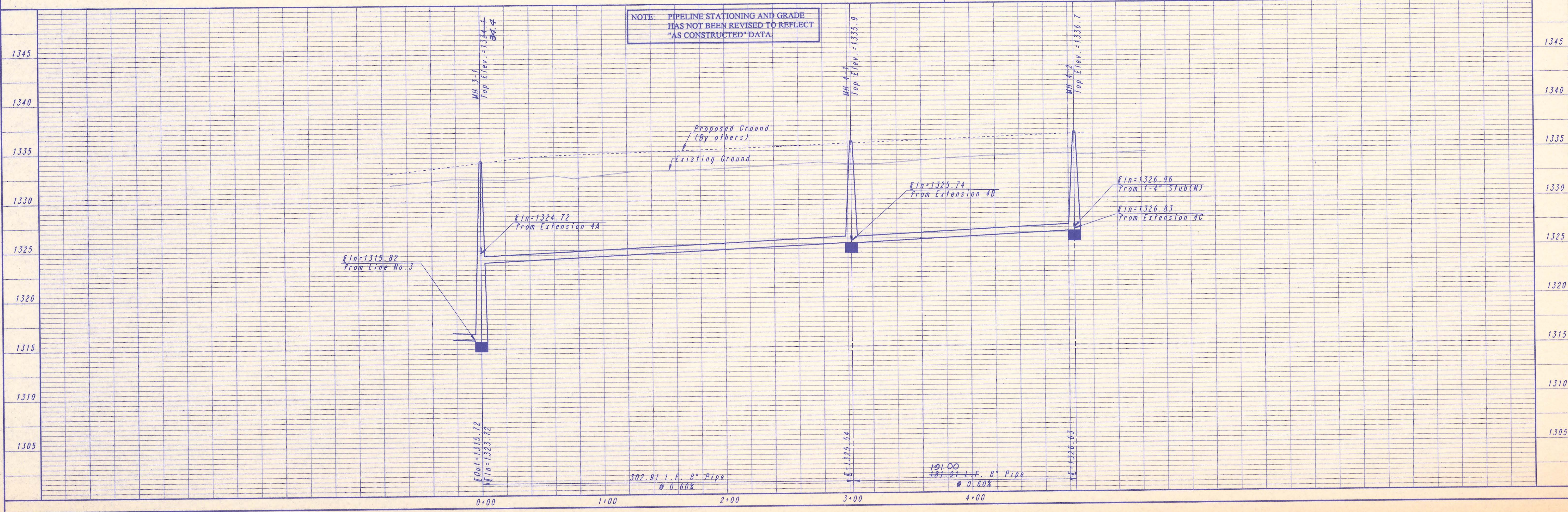


RECORD DRAWING
 3-15-93

LINE NO. 4

BM PIN13 - TOP OF "T" POST, 10' N. OF PC, LOT 18, BLOCK 1, THE PINNACLE AT CRESTVIEW. ELEV. = 1333.385

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT "AS CONSTRUCTED" DATA.



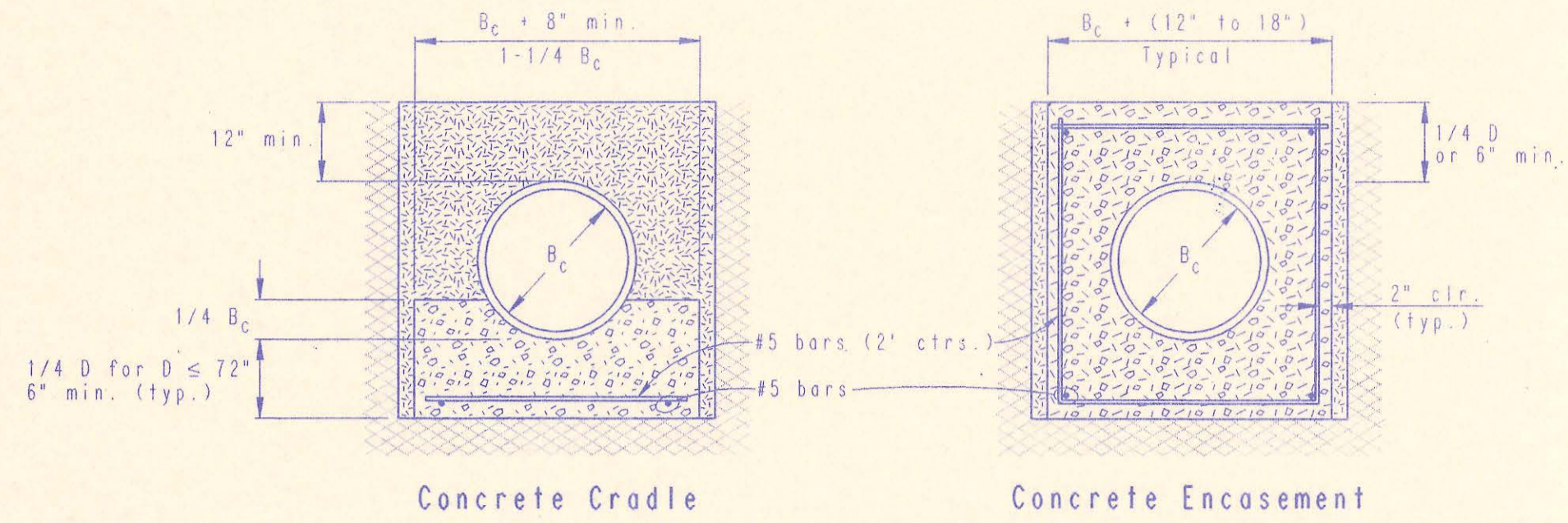
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
 DIRECTOR: DAVID C. SPEARS, P.E.
 BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LINE NO. 4
 SANITARY SEWER IMPROVEMENTS
 THE PINNACLE AT CRESTVIEW

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS

Designed By: MDS, MOK Job No. 34-91675-2
 Drawn By: TDS, GM Date: March, 1992

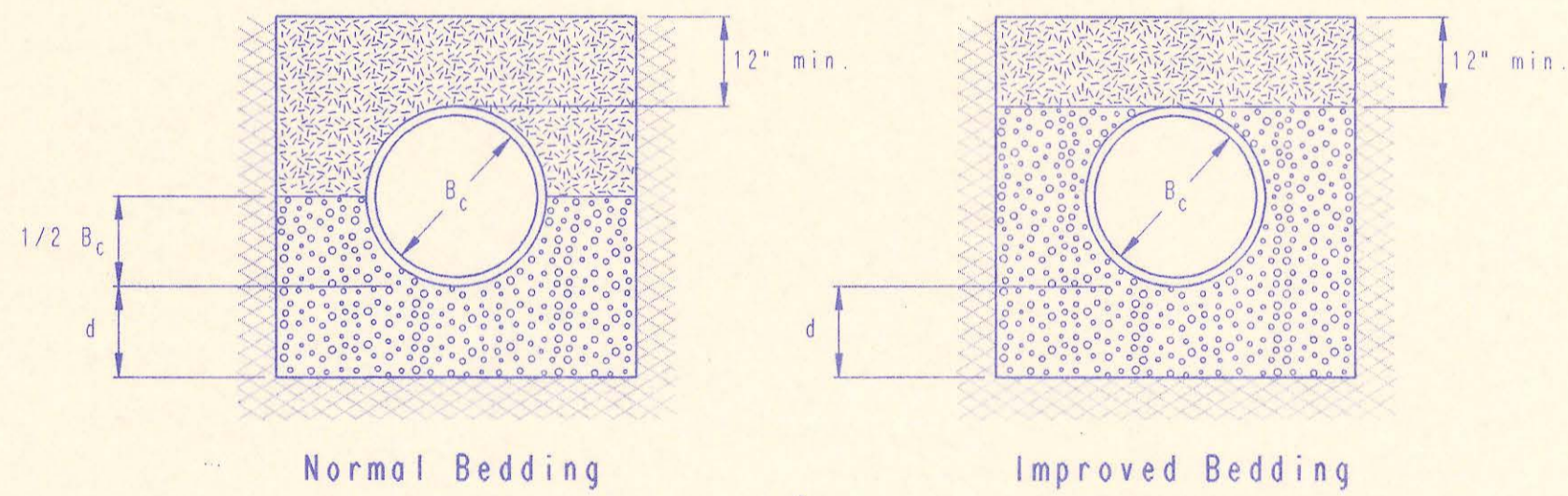
DATE 7/22/92
 BY MDC
 CHECKED
 PLAN



CLASS A

- 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
- [Symbol] = Granular Bedding Material or Sand-Gravel Bedding
- [Symbol] = Compacted Embedment
- [Symbol] = Concrete (Class III)

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"



CLASS B

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 Compact Embedment Materials.

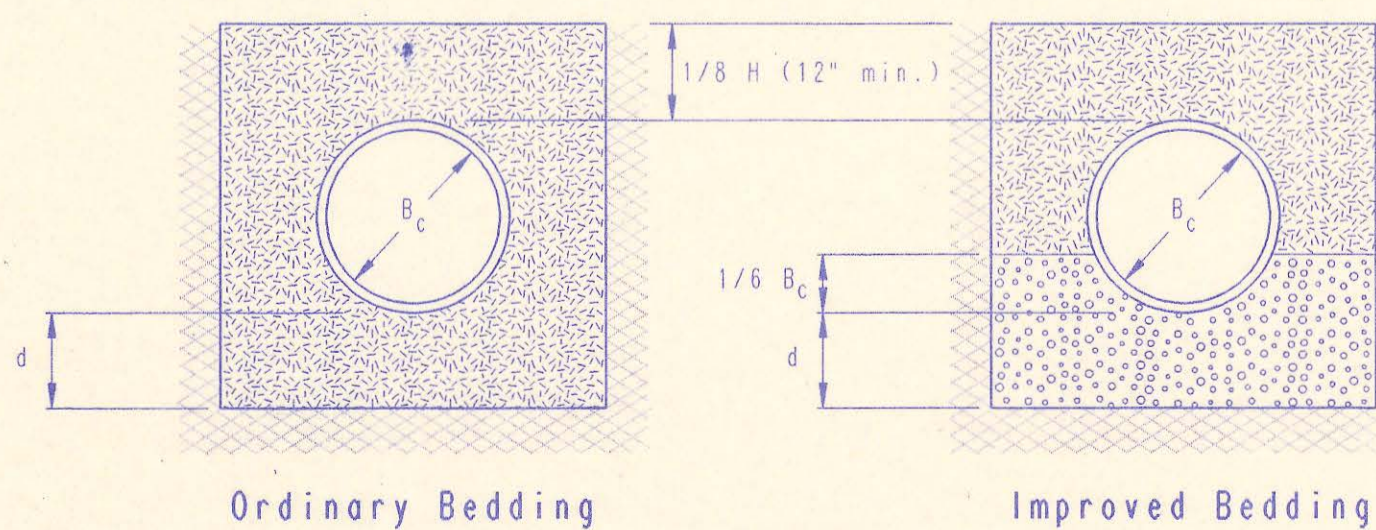
Class A "Concrete Cradle" and/or Class A "Concrete Encasement" is not required unless specified on the plans. However, where unexpected trench conditions exist or improper trenching is performed Class A Bedding may be required as determined by the Engineer.

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.

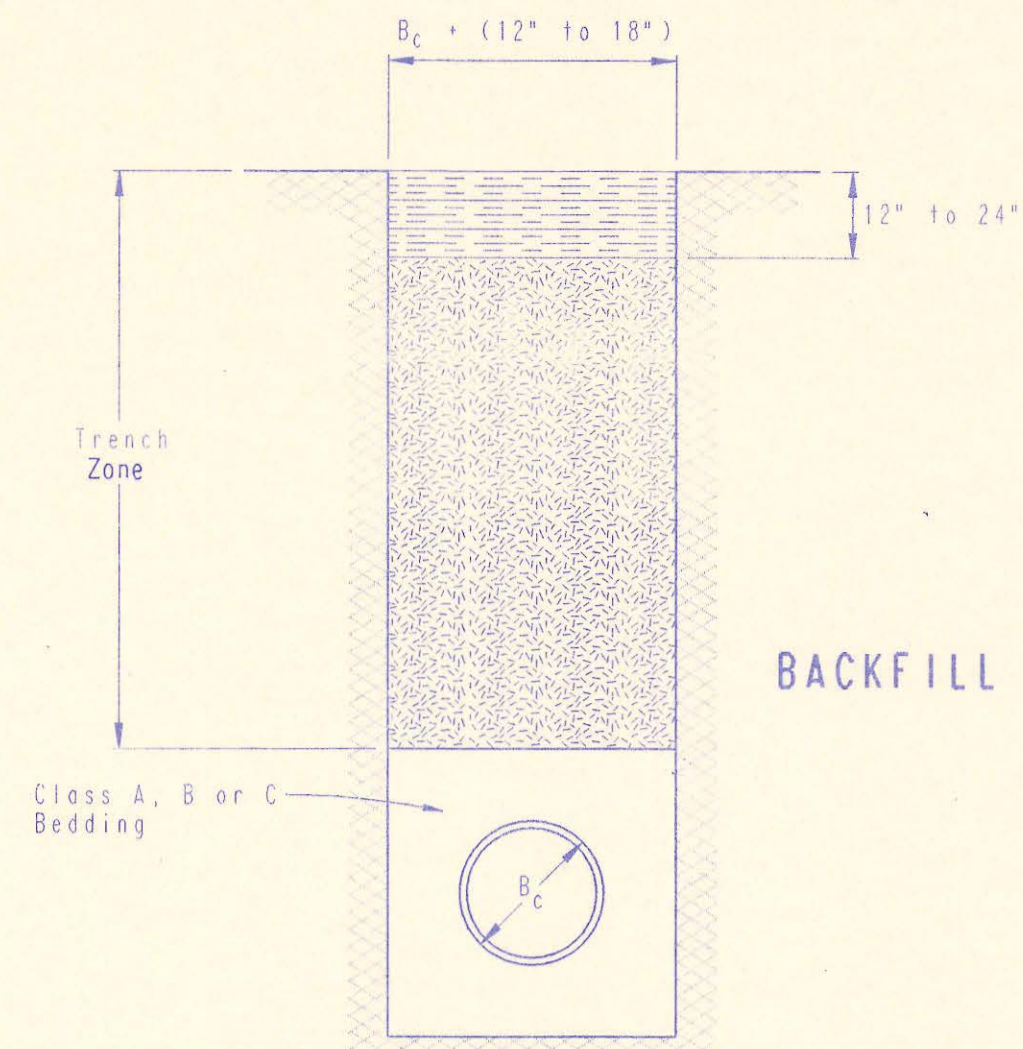
Class C Bedding shall be used for all rigid pipe.

- 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).



CLASS C

PIPE ZONE BACKFILLING



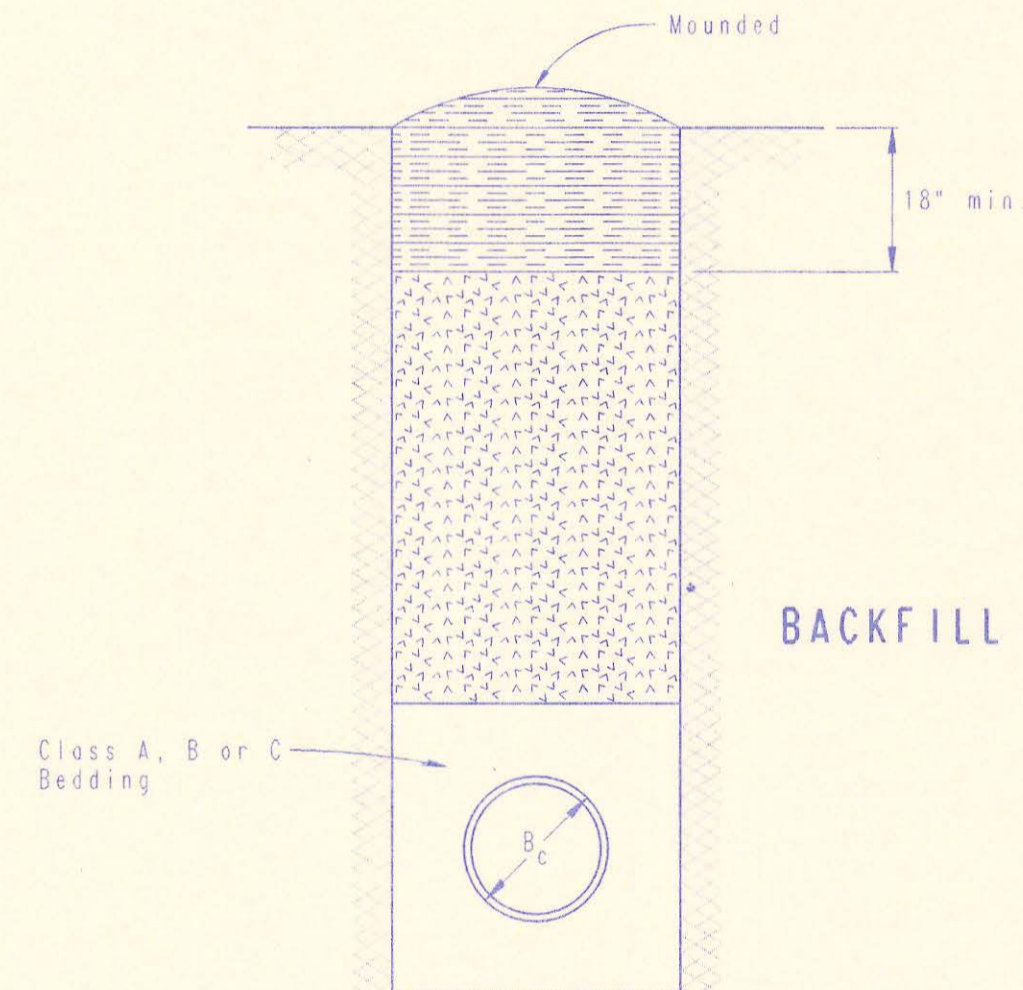
BACKFILL TYPE I

- B = Outside Pipe Diameter
- [Symbol] = Compacted Granular Backfill
- [Symbol] = Uncompacted Earth Backfill
- [Symbol] = 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.



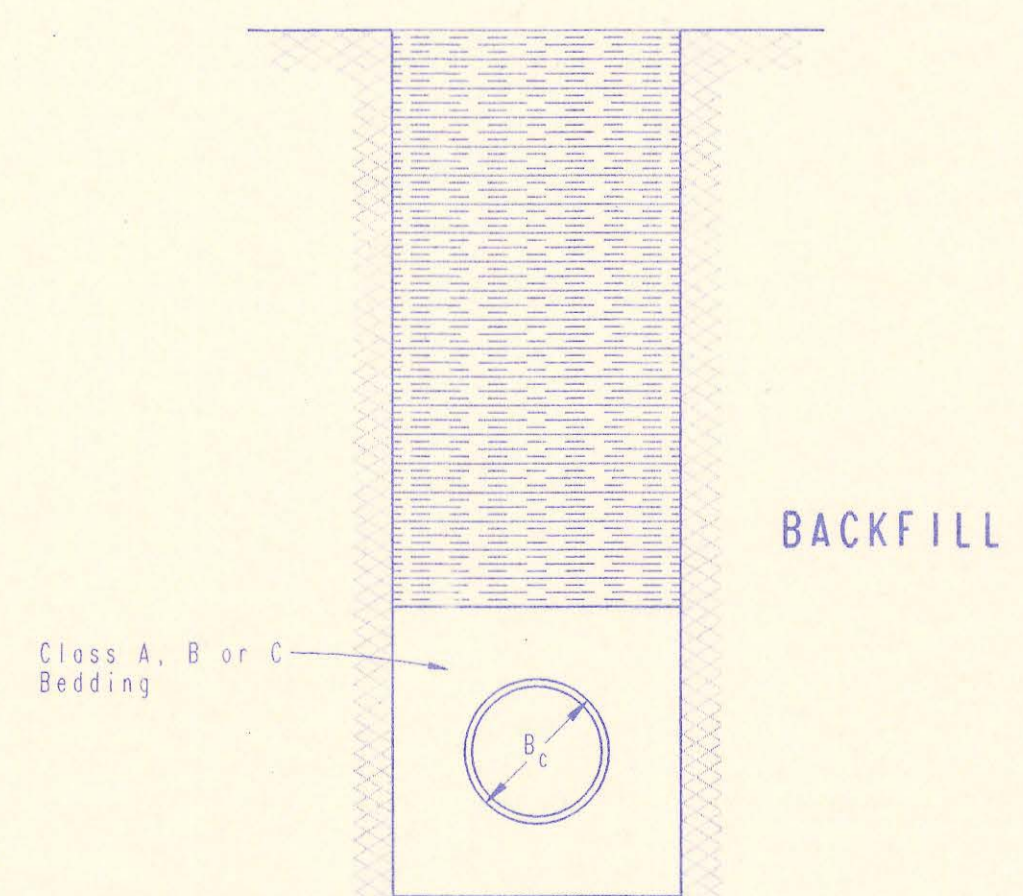
BACKFILL TYPE II

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 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.

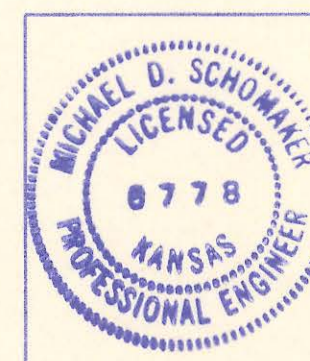
Backfilling Under Gravel Streets: Where the trench crosses or is in existing gravel surfaced streets, the backfill shall be compacted as provided in the paragraph "Backfilling Under Pavement".



BACKFILL TYPE III

TRENCH ZONE BACKFILLING

DRAWING NAME: 34-91675-2 BACKFILL
 CENTER COORDINATES:
 ROTATION ANGLE:
 DATE LAST WORKED ON: APR. 23, 1992
 SPECIAL INSTRUCTIONS:



No.	Revision	By	Date
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER			
BACKFILL DETAILS SANITARY SEWER IMPROVEMENTS THE PINNACLE AT CRESTVIEW PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	MDS, WDK	Job No.	34-91675-2
Drawn by	GM	Date	April, 1992
			Sht. 14 of 14

SCALE:

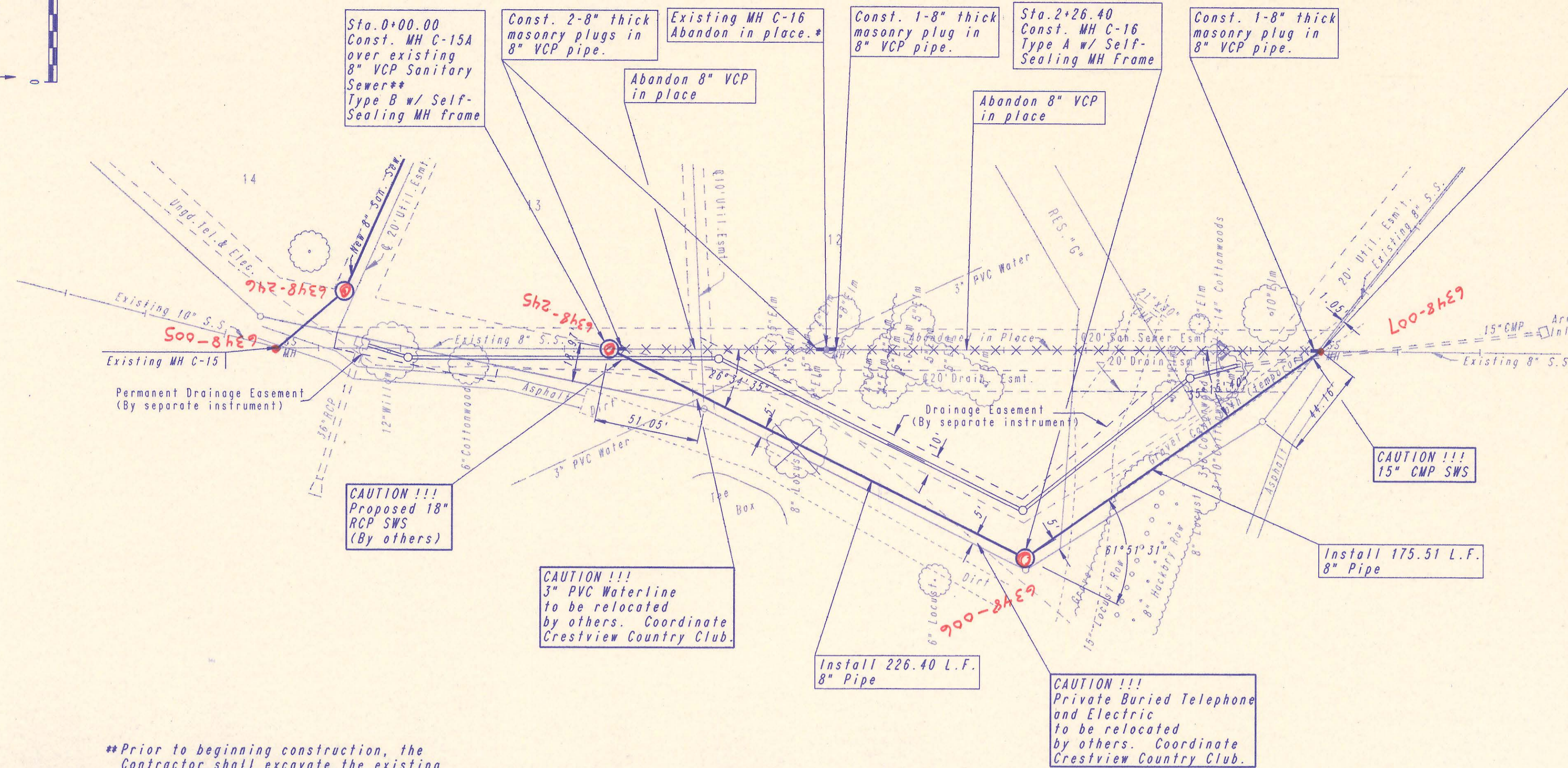
PLAN: LAT. & LONG. 40 0 40 80
PROFILE: HORIZ. SAME AS ABOVE
VERT. 0 5



PLAN
CHECKED
BY MDK
DATE 7/22/92

PROFILE
CHECKED
BY MDK
DATE 7/22/92

DRAWING NAME: 34-91675-6 SS 001
CENTER COORDINATES:
DATE LAST WORKED ON: JULY 22, 1992
SPECIAL INSTRUCTIONS:

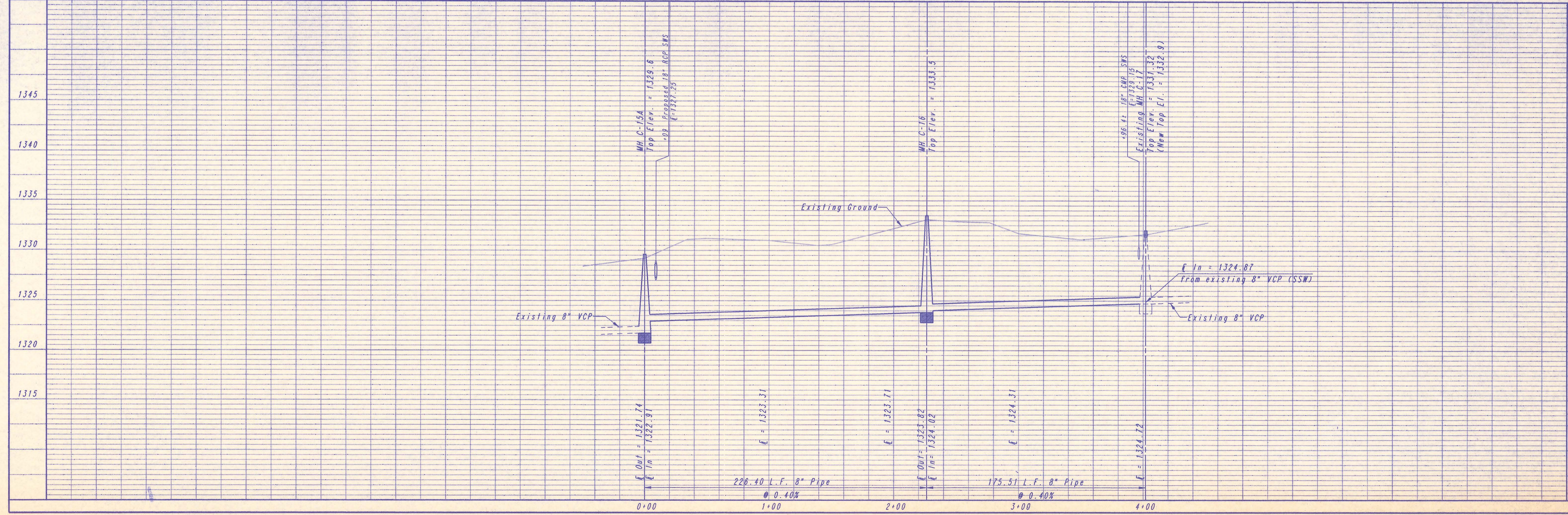


Sta. 4+01.91
Existing MH C-17
Break into existing Brick MH
and install new 8" Pipe.
Grout new pipe in place with
hydraulic cement. Reshape MH
floor to provide smooth flow.
Raise MH rim elevation
Existing rim elev. = 1331.32
Proposed rim elev. = 1332.9
Total adjustment = +1.58'
Remove exist. MH frame and
cover and replace with new
self-sealing MH frame and
cover. Coat interior of exist.
MH with Strong Seal MS 2-A
per manufacturers recommendations.
See Specifications for MH
adjustment and MH interior
coating.
All imperfections shall be filled in
with a Quick-Set Hydraulic Cement
prior to coating.

- * MH ABANDONMENT**
(The original Pinnacle at Crestview Sanitary Sewer plans called for rehabilitation of this MH (MH C-16). DO NOT PERFORM MH REHABILITATION.)
- a) Remove and dispose of MH frame and cover.
 - b) Remove top four feet (4') of the MH
 - c) Punch at least 2-1" dia. drainage holes thru MH base.
 - d) Plug all pipes in the Manhole with an 8" thick masonry plug. (2 req'd.)
 - e) Backfill remaining portion of MH with Sand. Flushed and vibrated.
 - f) Backfill of the remaining excavation shall be the same as the required for new MH construction. (Pipe plugs to be paid for separately)

**Prior to beginning construction, the Contractor shall excavate the existing 8" VCP at proposed MH C-15A. The Contractor shall verify the pipe type, elevation, and location and report his findings to the Engineer so that any necessary plan modifications may be made.

MAIN NO. 1



SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DIRECTOR: DAVID C. SPEARS, P.E.
CHANGE ORDER NO. 1
(MAIN NO. 1)
SANITARY SEWER IMPROVEMENTS
THE PINNACLE AT CRESTVIEW

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed By: MDS, MDK
Drawn By: TDS
Job No. 34-91675-6
Date: JULY, 1992

Sheet 1 of 1