

STORM WATER SEWER IMPROVEMENTS
TO SERVE

Messiah Baptist Church

Private Project Number

779 PPS (607861)

CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

March, 1998

GENERAL NOTES:

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

Kansas One-Call 687-2470

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

Cablevision 262-0661
or
K.P.L. Gas Service Company 263-2061
Kansas Gas & Electric Company 264-1141
Southwestern Bell Telephone Company 1-800-344-7233
City of Wichita Water Department 268-4908
City of Wichita Sewer Maintenance 268-4071

2. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor 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.

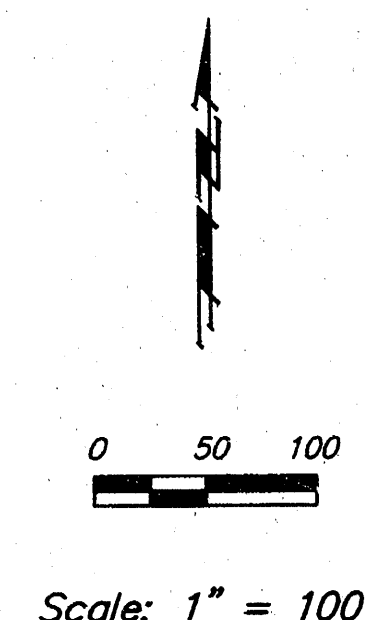
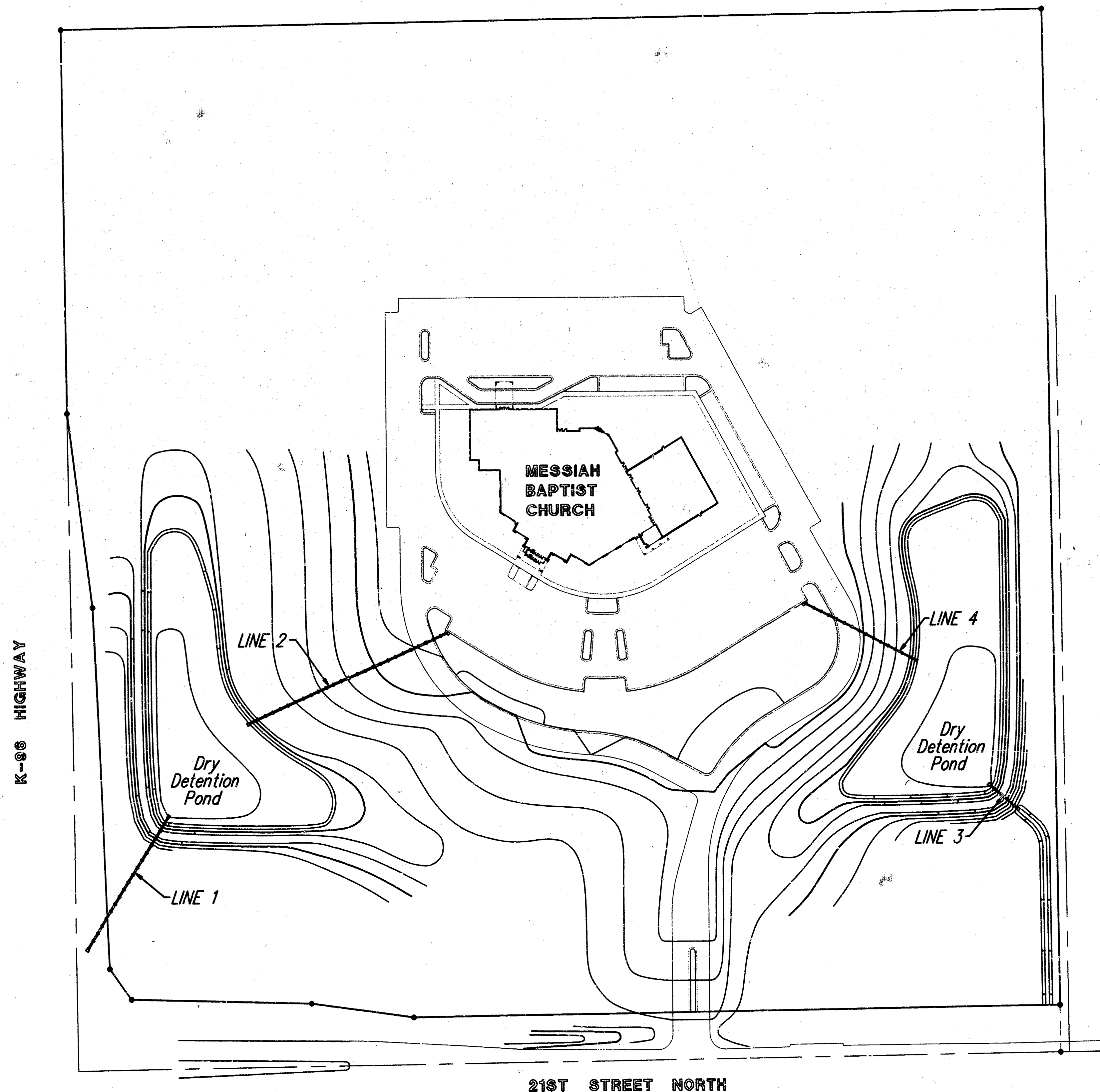
3. All areas disturbed by construction operations shall be seeded with rye grass at a rate of 300 lbs/acre immediately following construction in that area. Ground shall be prepared per City of Wichita specifications prior to seeding.

4. 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.

5. 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.

6. It will be the Contractor's responsibility to field check the project area to determine the extent of Site Clearing and Restoration to be performed.

7. Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Any work done without inspection will be required to be uncovered for inspection.



BOOKED
8-24-99
MCG
D-431

BENCHMARK:

GREENWICH AND 21st ST. NORTH CITY OF WICHITA
BENCHMARK - DISC 41' SOUTH AND 58' WEST OF
IRON CTR LINE BOTH 17.0' SW OF ASPHALT, 14.2'
EAST OF FACE P.P. 17.0' WEST OF FACE P.P.
ELEVATION = 1,361.38 (MSL)

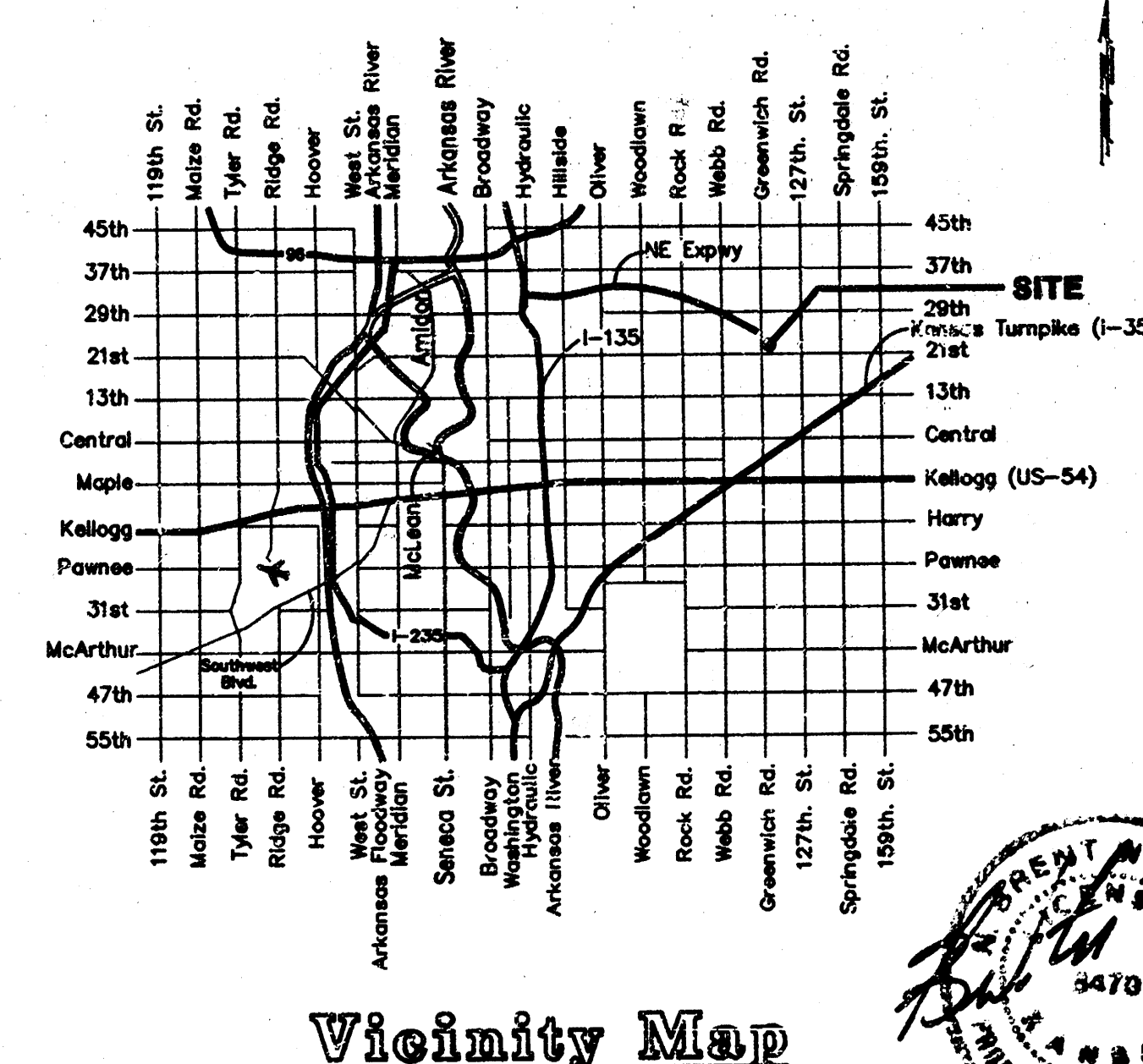
INDEX:

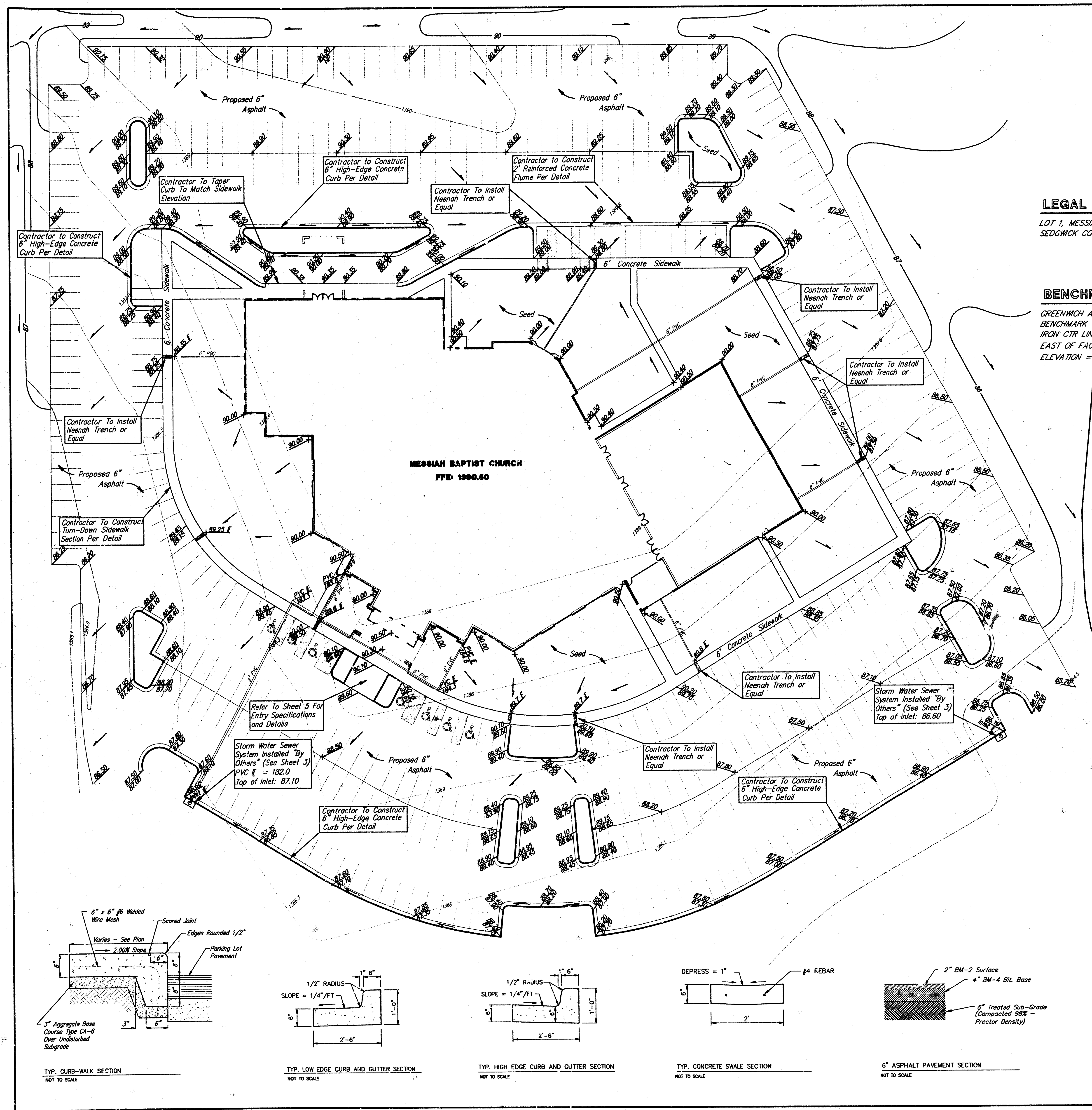
1. Title Sheet
- 2-3. Site Grading Plans
4. Line 1 Plan/Profile
5. Line 2 Plan/Profile
6. Line 3 & Line 4 Plan/Profile
7. Type-1 Curb Inlet Detail
8. Ring & Cover Detail
9. Copy of Messiah Baptist Church 4th Addition Plat

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA
Storm Sewer VRH 3/17/98

NOTE TO CONTRACTORS

Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).





LEGAL DESCRIPTION:

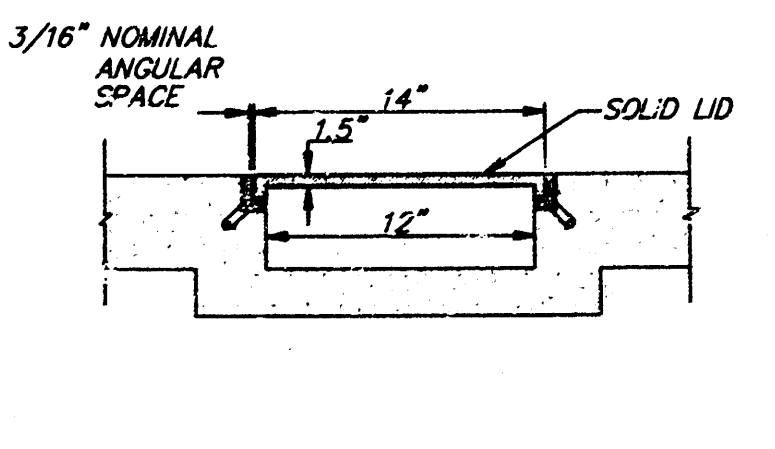
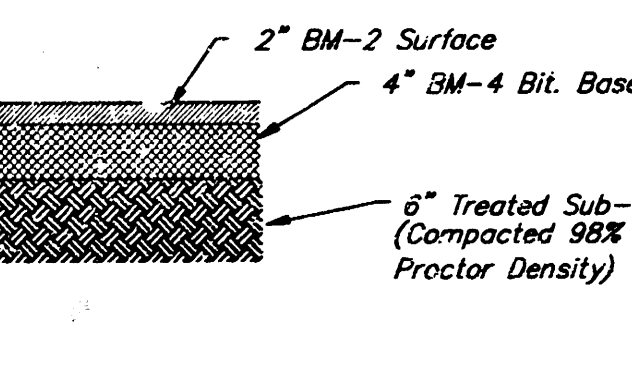
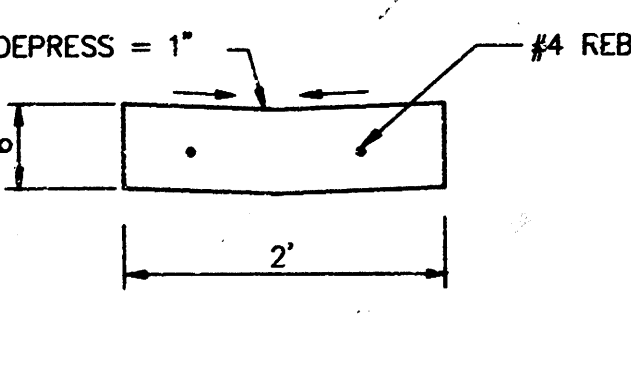
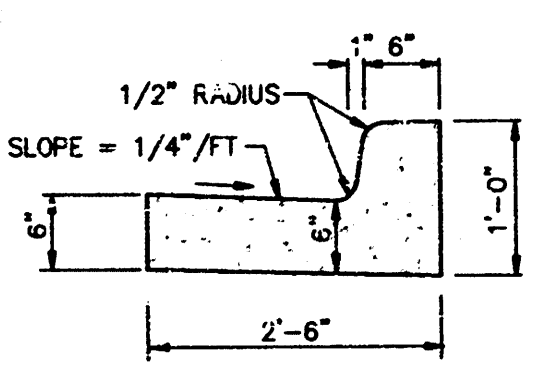
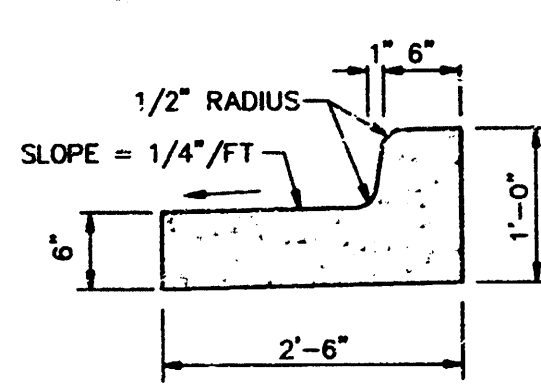
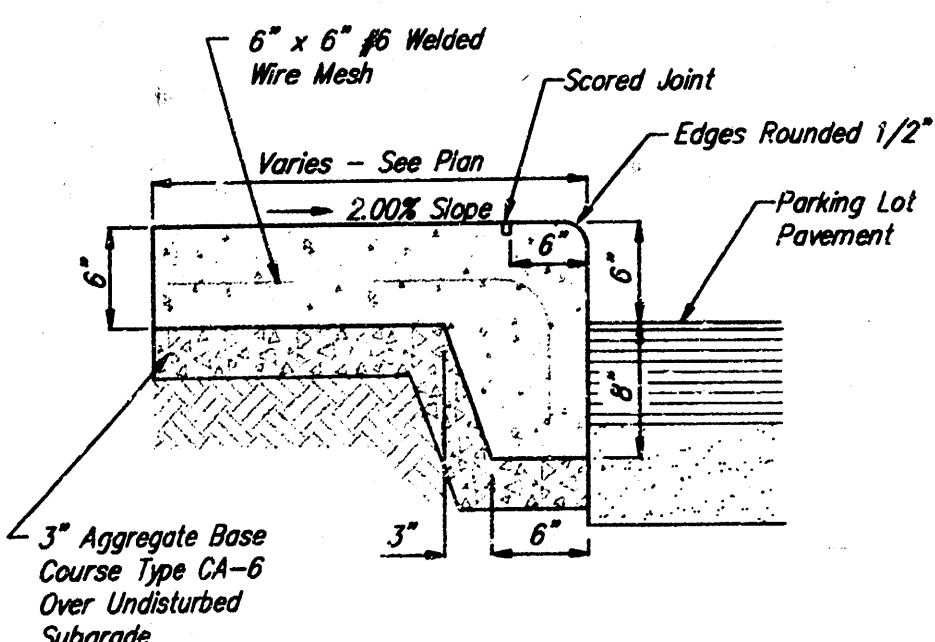
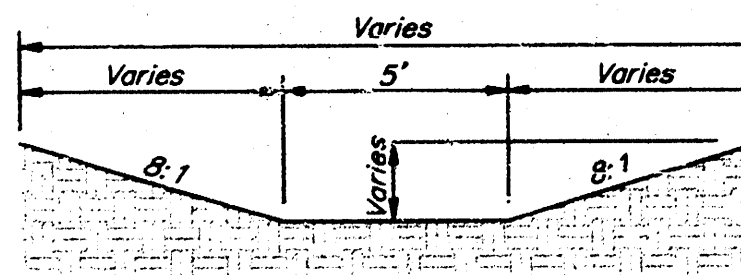
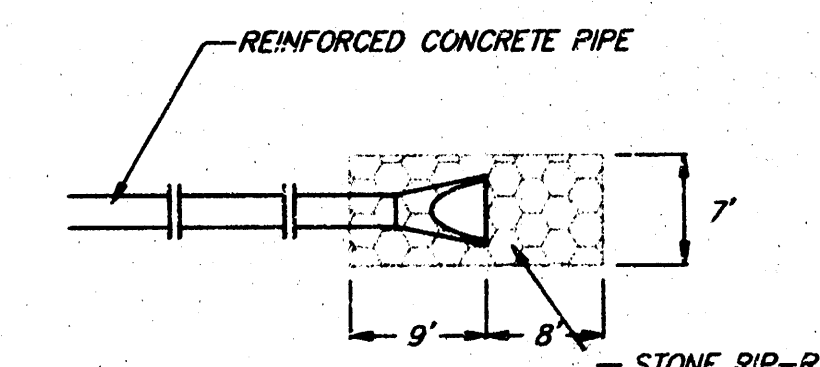
LOT 1, MESSIAH BAPTIST CHURCH 4TH ADDITION,
SEDGWICK COUNTY, KANSAS

BENCHMARK:

GREENWICH AND 21st ST. NORTH CITY OF WICHITA
BENCHMARK - DISC 41" SOUTH AND 58" WEST OF
IRON CTR LINE BOTH 17.0' SW OF ASPHALT, 14.2'
EAST OF FACE P.P. 17.0' WEST OF FACE P.P.
ELEVATION = 1361.38 (MSL)

GRADING 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
The Contractor must notify the following in case of an emergency:
Cablevision 262-4270
or 263-2061
K.P.L. Gas Service Company 383-8850
Kansas Gas & Electric Company 383-8800
Southwestern Bell Telephone Company 1-571-2811
- Exist. utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company-provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.
- Traffic affected by the construction on this project shall be handled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices.
- The Contractor to verify utility locations prior to construction of this project.
- All disturbed areas shall be seeded with Rabel II fescue at the rate of 340 lbs. per acre. Fertilizer (13-13-13) shall be applied at the rate of 100 lbs. per acre.
- Signing and striping shall be installed in accordance with City of Wichita Specifications and Codes. Striping shall be painted markings in conformance with the latest edition of the Standard Specifications for State Road and Bridge Construction by the Kansas Department of Transportation.
- All striping shall be solid, 4" in width and shall be yellow in color.
- All trees and shrubs in direct conflict with construction shall be removed.
- Paved Lot to be constructed with 6" asphaltic concrete pavement (4" bituminous base/2" A.C. surface) and subgrade to be compacted to 98% Standard Density and treated with 25 lbs./s.y. Pebble Quick Lime. Asphaltic pavement to conform with City of Wichita pavement specifications.
- Utility service connections are to be installed per applicable City codes.
- Contractor to ensure positive drainage away from building foundation and turf areas to proposed sidewalk trench frame openings or across sidewalks.
- Contractor to maintain a minimum of .5% slope on proposed PVC roof drain pipes throughout project.



Revised March 16, 1998 JAB

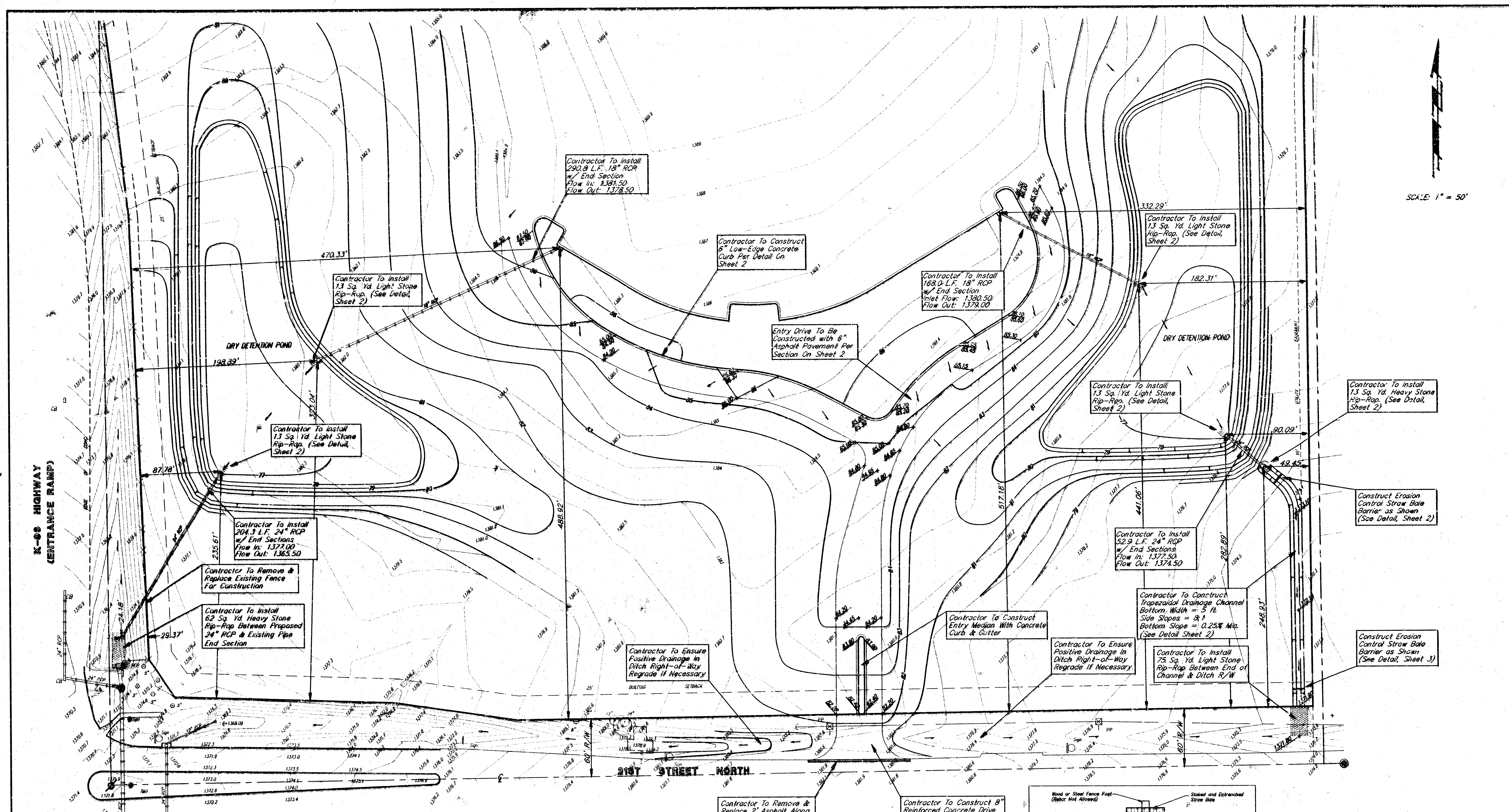
MESSIAH BAPTIST CHURCH
SITE GRADING
PARKING LOT GRADES

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7371 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER
779 PPS (607861)

DESIGN NEW DRAWN JAB APPROVED NEW DATE 12/21/97 SCALE 1" = 30'

SHEET 2 OF 9



LEGAL DESCRIPTION:

LOT 1, MESSIAH BAPTIST CHURCH 4TH ADDITION,
SEDGWICK COUNTY, KANSAS

BENCHMARK:

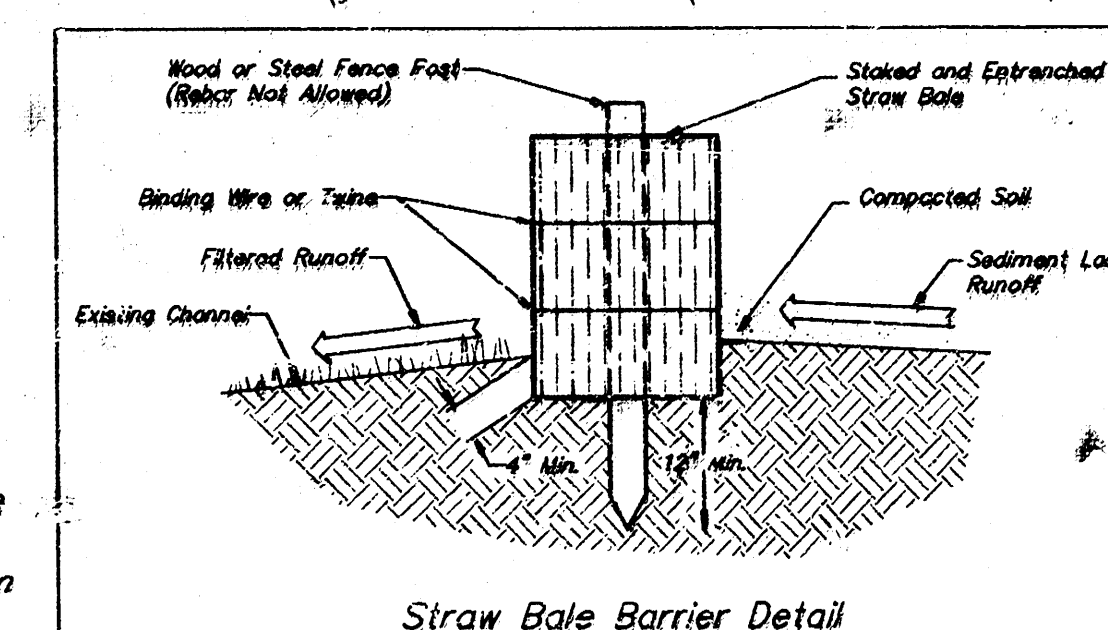
GREENWICH AND 21st ST. NORTH CITY OF WICHITA
BENCHMARK - DISC 41" SOUTH AND 58" WEST OF
IRON CTR. LINE 60TH 17.0' SW OF ASPHALT, 14.2'
EAST OF FACE P.P. 17.0' WEST OF FACE P.P.
ELEVATION = 1361.38 (MSL)

GRADING 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
The Contractor must notify the following in case of an emergency:
Cablevision 262-4270
K.P.L. Gas Service Company 263-2061
Kansas Gas & Electric Company 383-8650
or 383-5600
Southwestern Bell Telephone Company 1-571-2611

- Exist. utilities and their locations, as shown on the plans, represent the best information obtainable for design. No information has been obtained from the various utility companies and is either from company record drawings or company-provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.
- Traffic affected by the construction on this project shall be handled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices.
- The Contractor to verify utility locations prior to construction of this project.
- All disturbed areas shall be seeded with Rebel II fescue at the rate of 340 lbs. per acre. Fertilizer (13-13-13) shall be applied at the rate of 100 lbs. per acre.

- All trees and shrubs in direct conflict with construction shall be removed.
- Entry drive to be constructed with 6" asphaltic concrete pavement (4" bituminous base, 2" A.C. surface) and subgrade to be compacted to 95% Standard Density and treated with 25 lbs./s.y. Pebble Quick Lime. Asphaltic pavement to conform with City of Wichita pavement specifications.
- Contractor is to ensure that all on site drainage is directed into the proposed detention ponds or ditch right-of-way.
- Contractor to obtain necessary KDOT permits for drainage construction in the K-96 ramp right-of-way.
- Contractor to obtain necessary Sedgwick County highway permits for access to 21st Street North.



Revised March 16, 1993 JMN
Revised February 13, 1993 BLC
Revised February 9, 1993 BLC

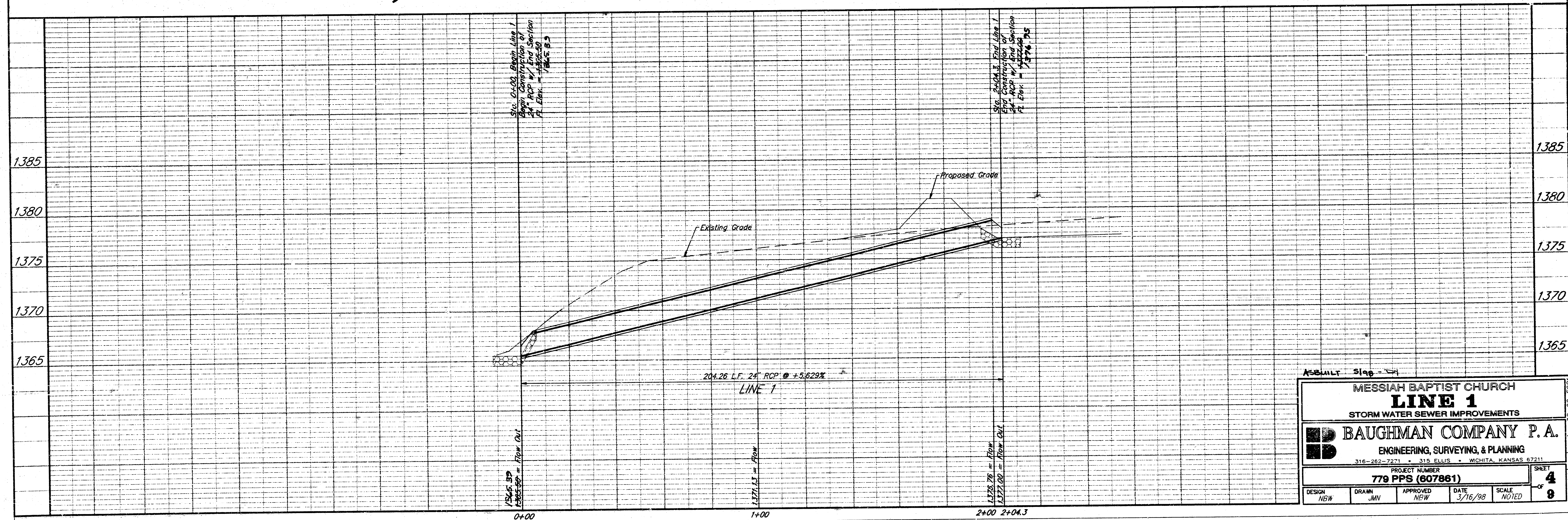
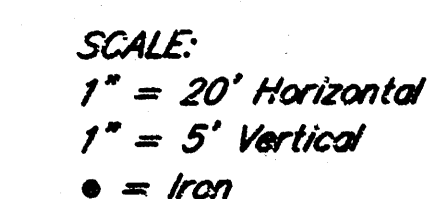
MESSIAH BAPTIST CHURCH
SITE GRADING

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

DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
NBW	JAB	NBW	12/21/97	5/40W	3 OF 9

PROJECT NUMBER
779 PPS (607861)

GREENWICH AND 21st ST. NORTH CITY OF WICHITA
BENCHMARK - DISC 41' SOUTH AND 58' WEST OF
IRON CTR LINE BOTH. 17.0' SW OF ASPHALT, 14.2'
EAST OF FACE P.P. 17.0' WEST OF FACE P.P.
ELEVATION = 1361.38 (MSL)



BENCHMARK:

GREENWICH AND 21st ST. NORTH CITY OF WICHITA
BENCHMARK - DISC 41" SOUTH AND 58" WEST OF
IRON CIR. LINE BOTH 17.0' SW OF ASPHALT, 14.2'
EAST OF FACE P.P. 17.0' WEST OF FACE P.P.
ELEVATION = 1361.39 (MSL)

LOT 1
Messiah Baptist Church
4th Addition

Sta. 0+00, Begin Line 2
Begin Construction of
18" RCP w/ End Section
FL Elev. = 1378.50

Proposed Dry
Detention Pond

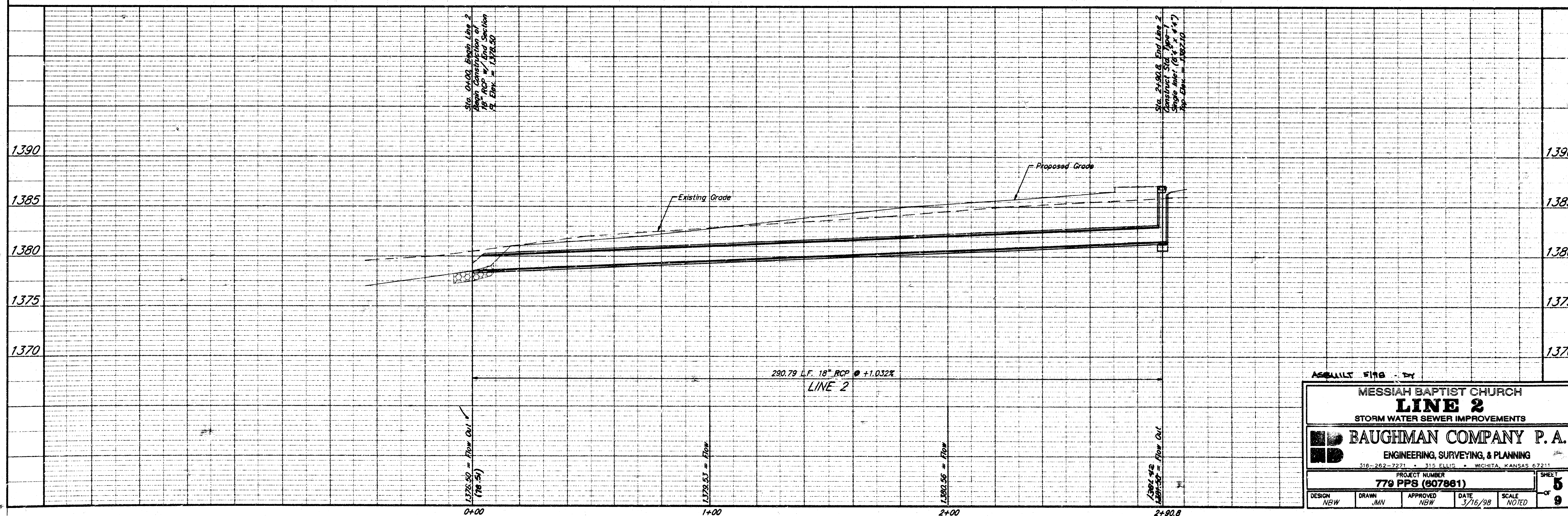
Install 13 S.Y. of
Light Stone Riprap
as Shown.

Sta. 2+90.8, End Line 2
Construct Std. Type-1
Single Inlet (6'4" x 4'4")
Top Elev. = 1387.10

SCALE:
1" = 20' Horizontal
1" = 5' Vertical
• = Iron

LOT 1
Messiah Baptist Church
4th Addition

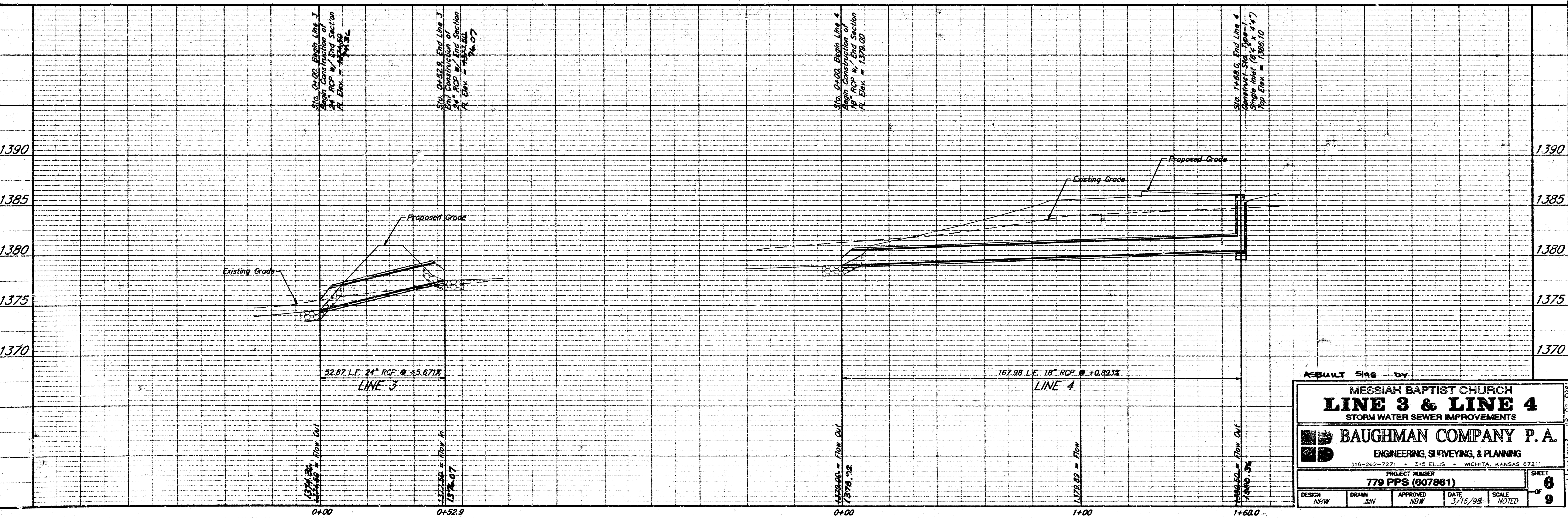
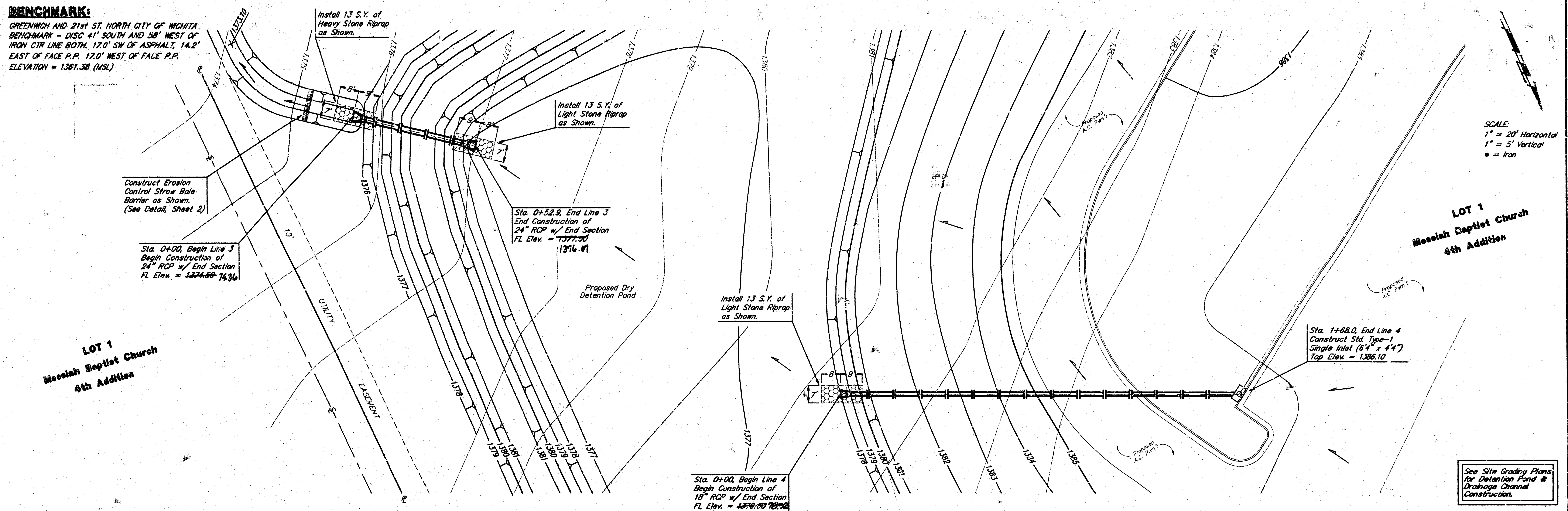
See Site Grading Plans
for Detention Pond
Construction.



ACQUITT FILE				
MESSIAH BAPTIST CHURCH				
LINE 2				
STORM WATER SEWER IMPROVEMENTS				
BAUGHMAN COMPANY P.A.				
ENGINEERING, SURVEYING, & PLANNING				
316-252-7271 • 316-251-1111 • WICHITA, KANSAS 67211				
PROJECT NUMBER				
779 PPS (607861)				
DESIGN	DRAWN	APPROVED	DATE	SCALE
NEW	JAN	NEW	3/16/98	NOTED
SHEET				5
				OF 9

BENCHMARK:

GREENWICH AND 21st ST. NORTH CITY OF WICHITA
 BENCHMARK - DISC 4" SOUTH AND 58" WEST OF
 IRON CTR LINE BOTH. 17.0' SW OF ASPHALT, 14.2'
 EAST OF FACE P.P. 17.0' WEST OF FACE P.P.
 ELEVATION = 1381.38 (MSL)



AS-BUILT SWS - DY

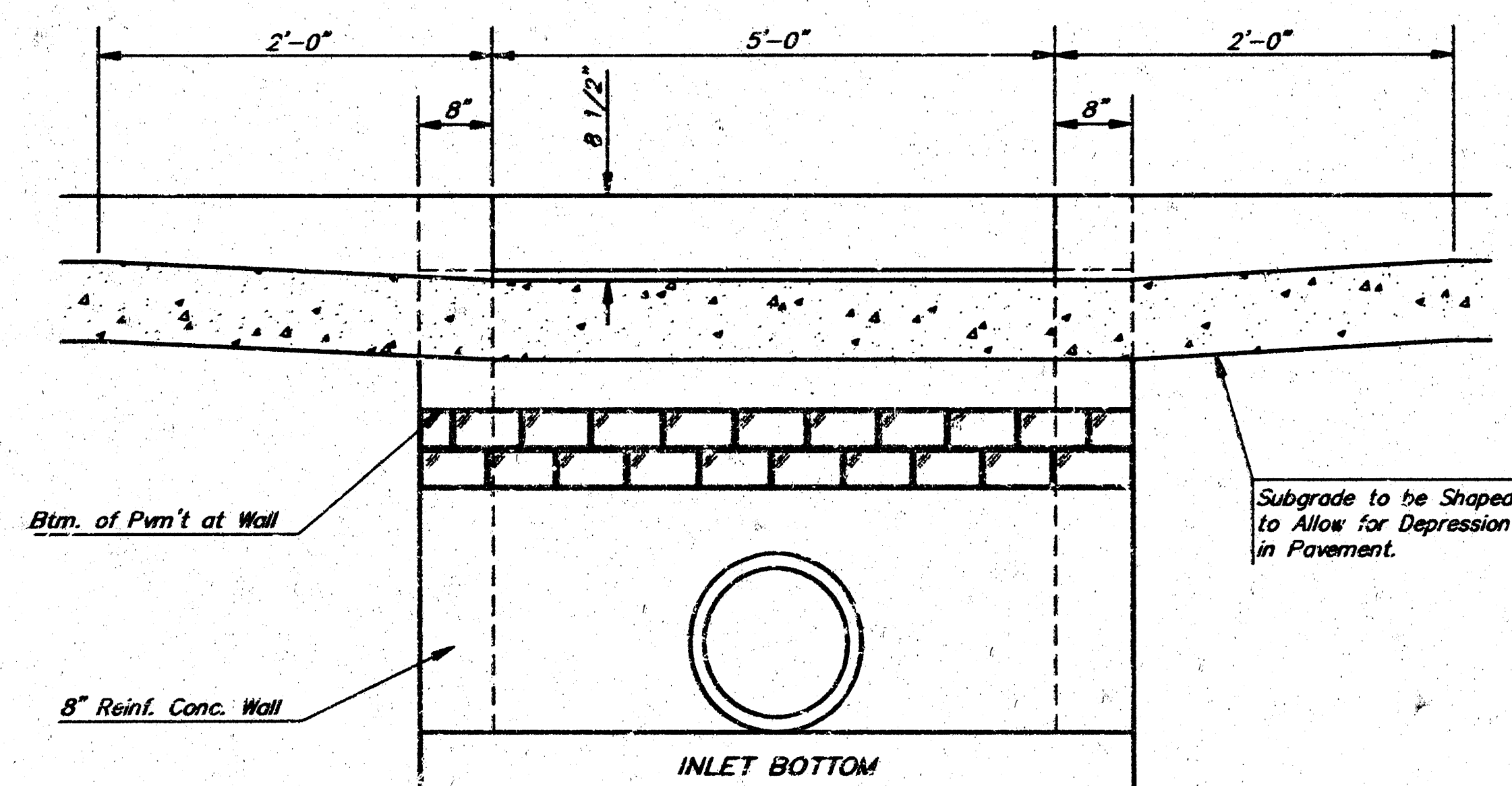
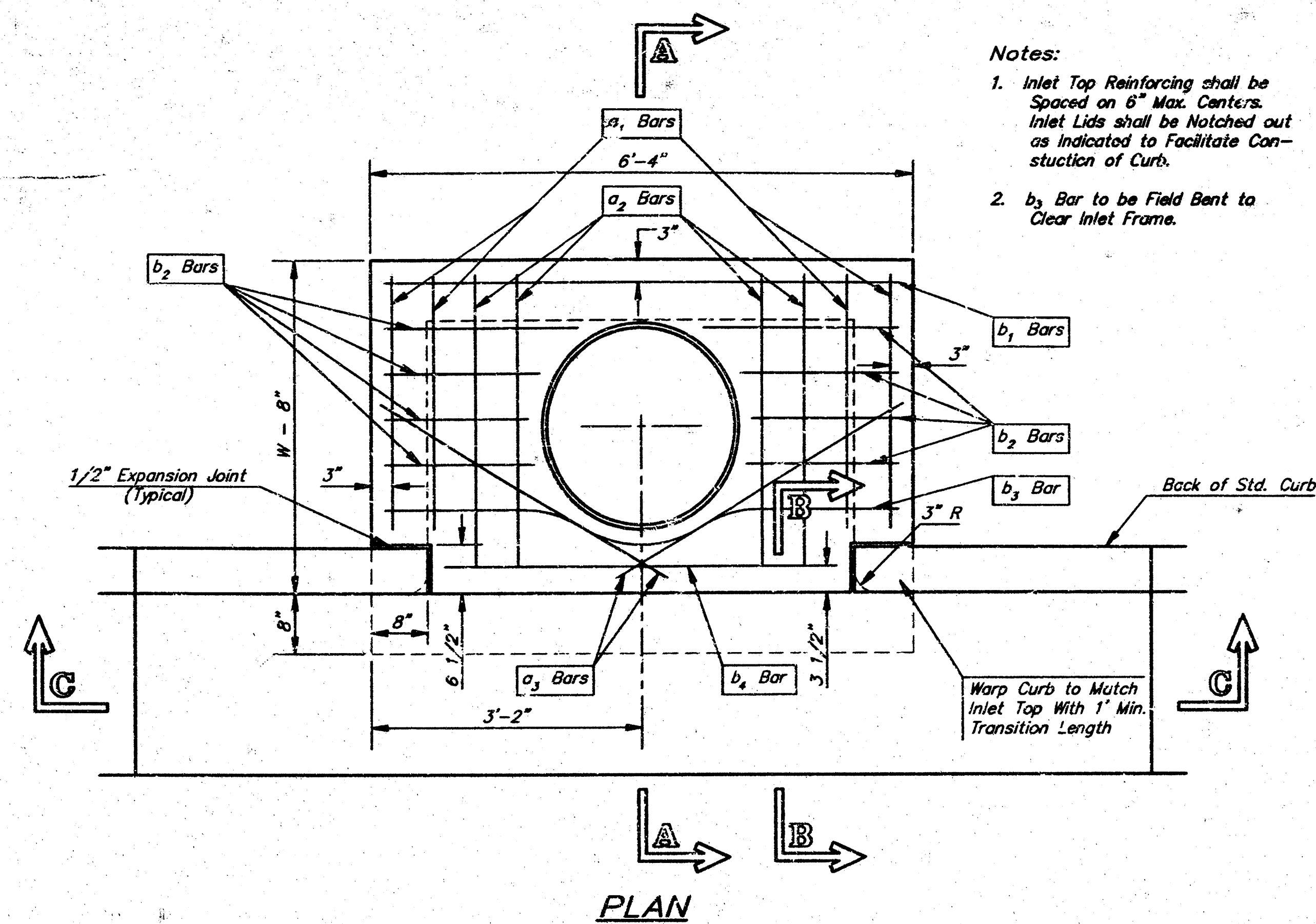
MESSIAH BAPTIST CHURCH
LINE 3 & LINE 4
 STORM WATER SEWER IMPROVEMENTS

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

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

PROJECT NUMBER
779 FPS (607861)

DESIGN: NEW DRAWN: JUN APPROVED: NEW DATE: 3/15/98 SCALE: NOTED SHEET: **6** OF **9**



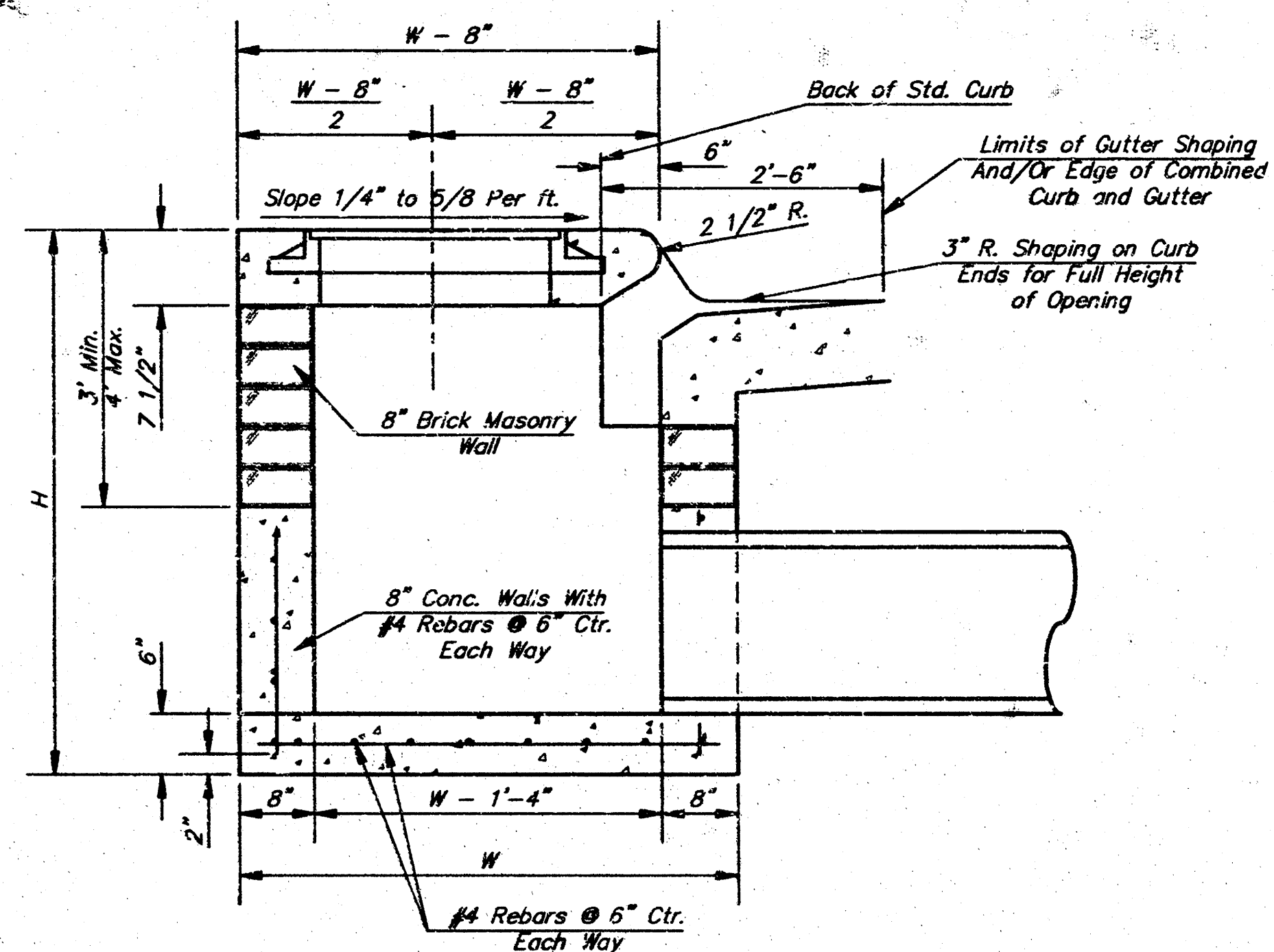
SECTION C-C

STEEL SCHEDULE

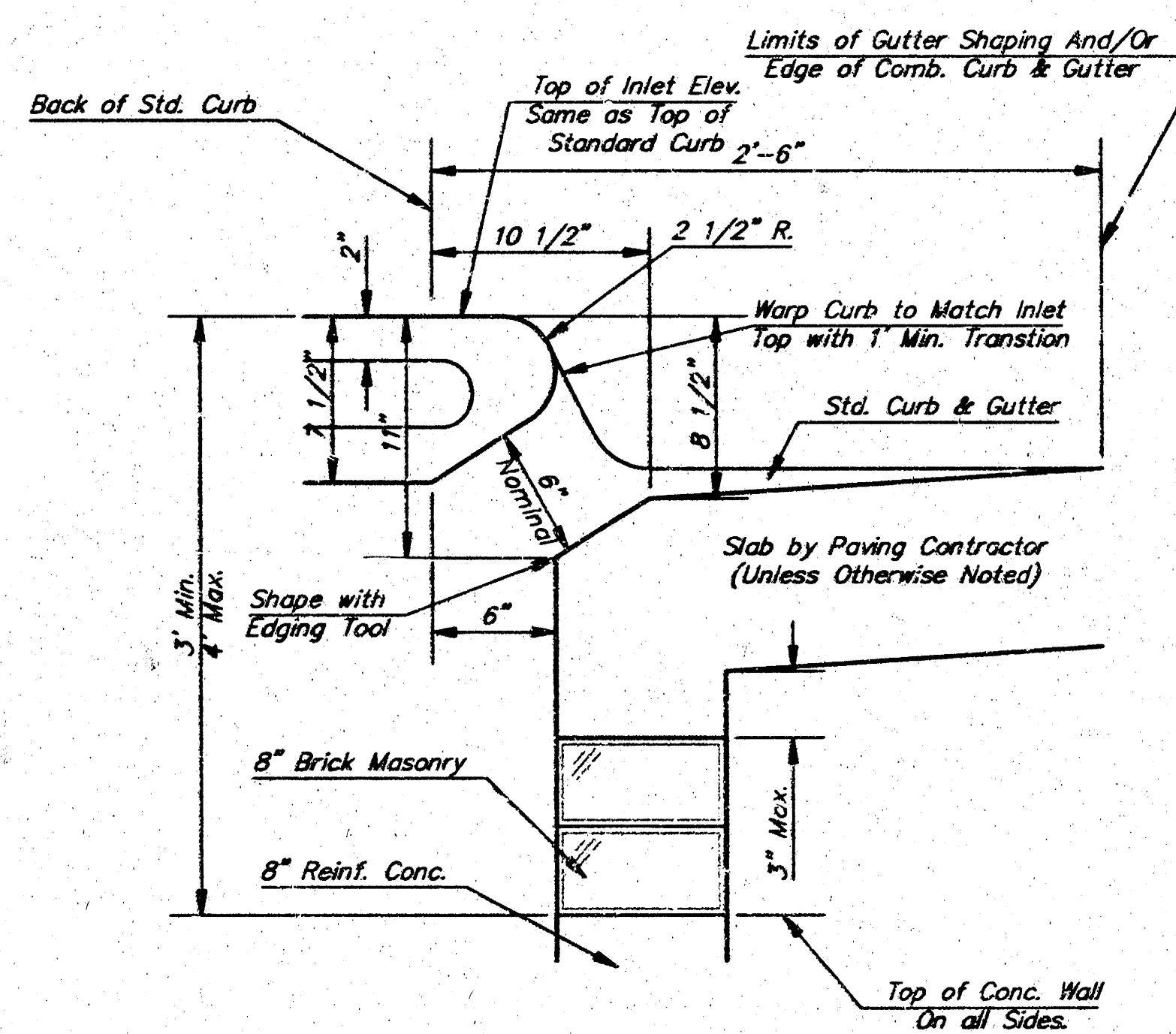
BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	WL.
NUMBER	4	4	2	1	3	5	7	9
SIZE	#4	#4	#4	#4	#4	#4	#4	#6
LENGTH	W=4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	-	-	1'-9"
	W=5'-4"	7'-7"	8'-7"	5'-0"	-	6'-1"	-	1'-9"
	W=6'-4"	9'-7"	10'-7"	6'-0"	-	-	6'-1"	1'-9"
	W=7'-4"	11'-7"	12'-7"	7'-0"	-	-	-	6'-1"
	W=8'-4"	13'-7"	14'-7"	8'-0"	-	-	-	6'-1"

Note: a₃ Bars to be Placed Approx. 2" Below Top of Inlet Cover.

W	PRE-CAST TOP SIZE	PIPE SIZE	CL. TO CONC.
4'-4"	3'-8" 6'-4" 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-4" 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 7 1/2"	60" & 66"	0.90±



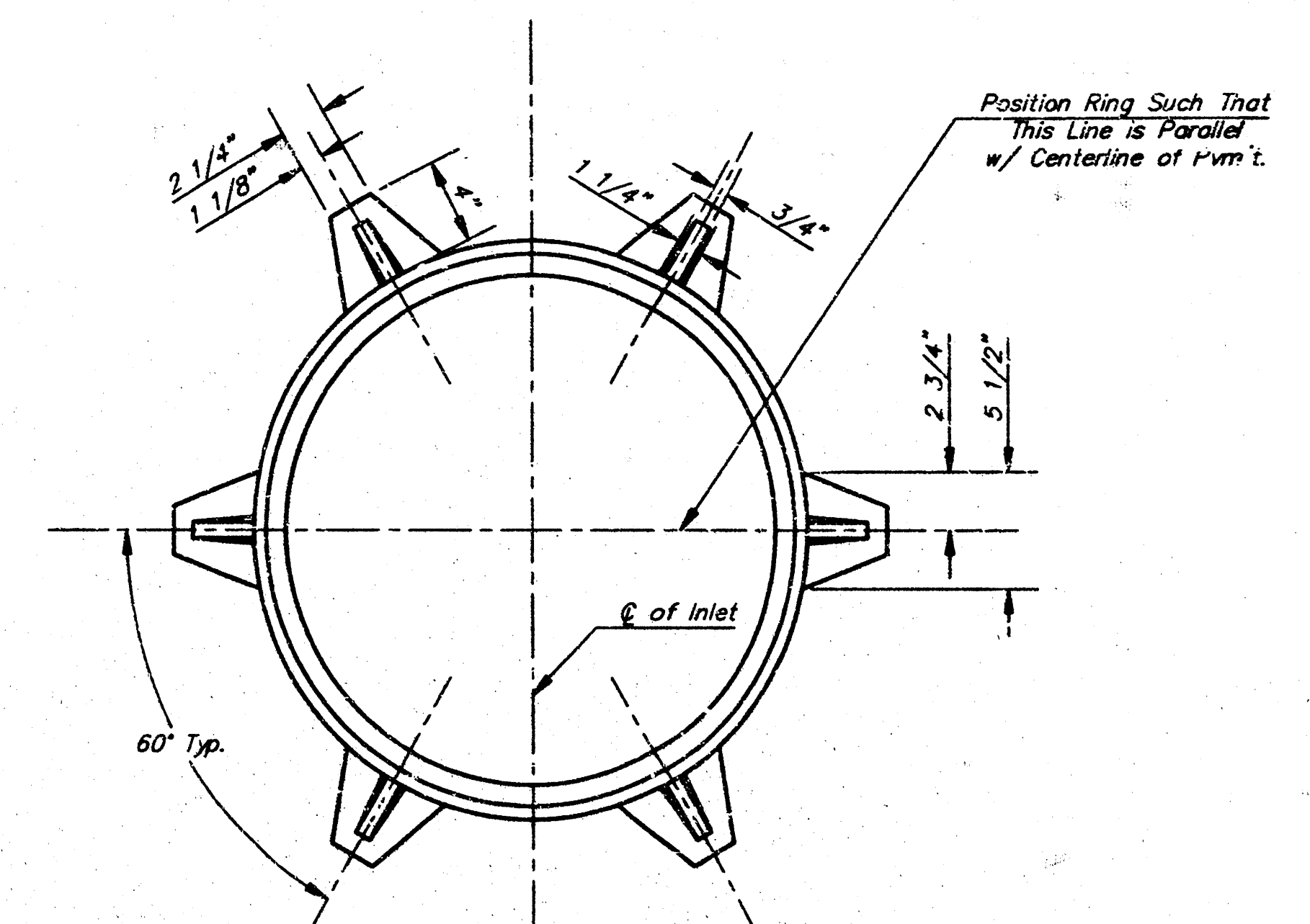
SECTION A-A



SECTION B-B

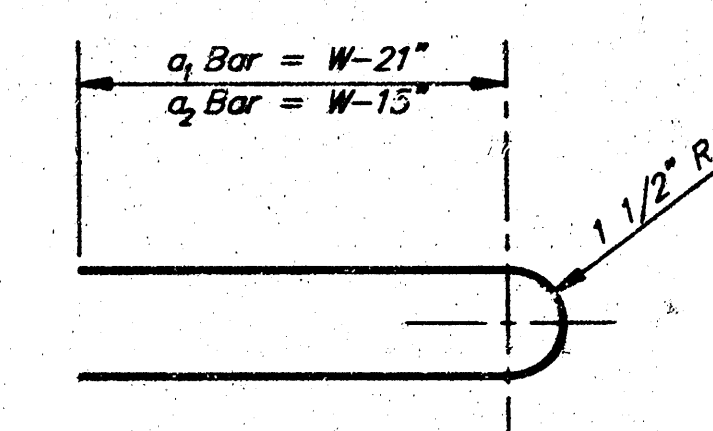
GENERAL NOTES

- Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix.
- Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.
- Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipes.
- The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.



MANHOLE RING AND COVER

See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



BENDING DIAGRAM

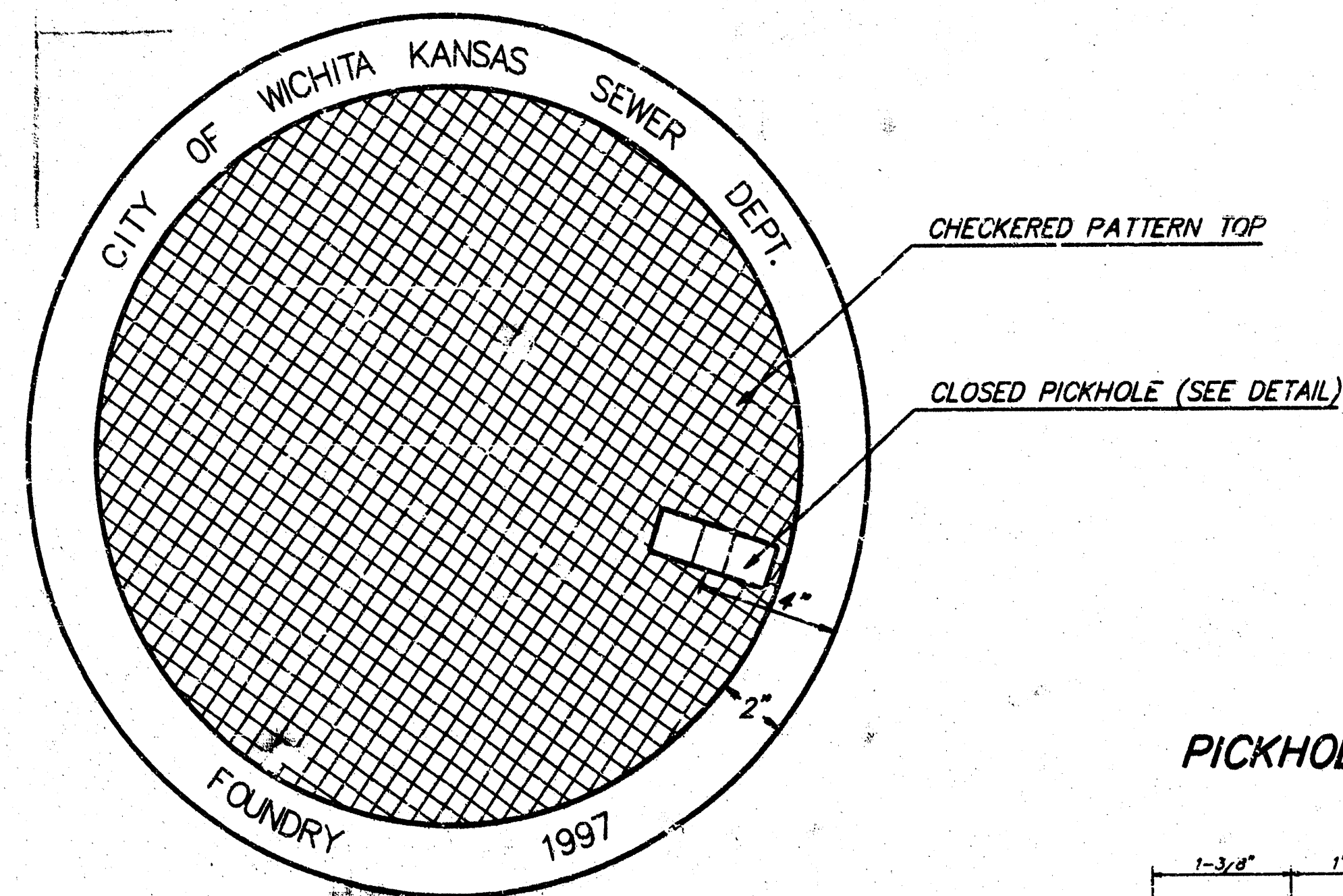
Revised - Dec. 21, 1984

CITY OF WICHITA, KANSAS			
TYPE 1 CURB INLET			
INLET OPENING = 6'X5'-0"			
BAUGHMAN COMPANY P.A.			
ENGINEERING, SURVEYING, & PLANNING			
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER		SHEET	
779 PPS (607861)		7	
DESIGN	DRAWN	APPROVED	DATE
C.O.W.	STAFF		
SCALE		NONE	
		9	

MANHOLE FRAME AND COVER DETAIL

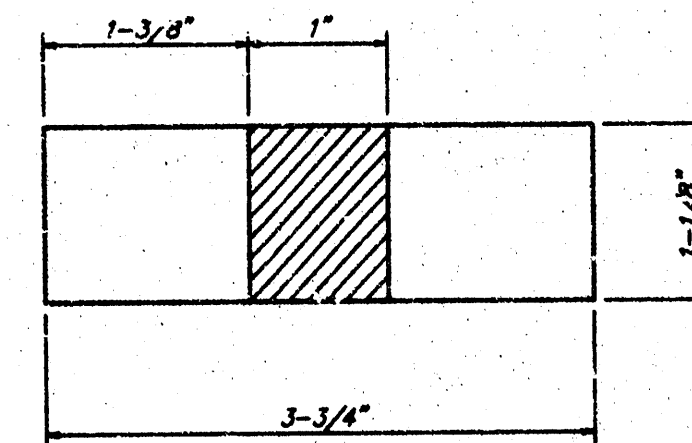
ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

MANHOLE COVER
Weight = 180 Lbs.

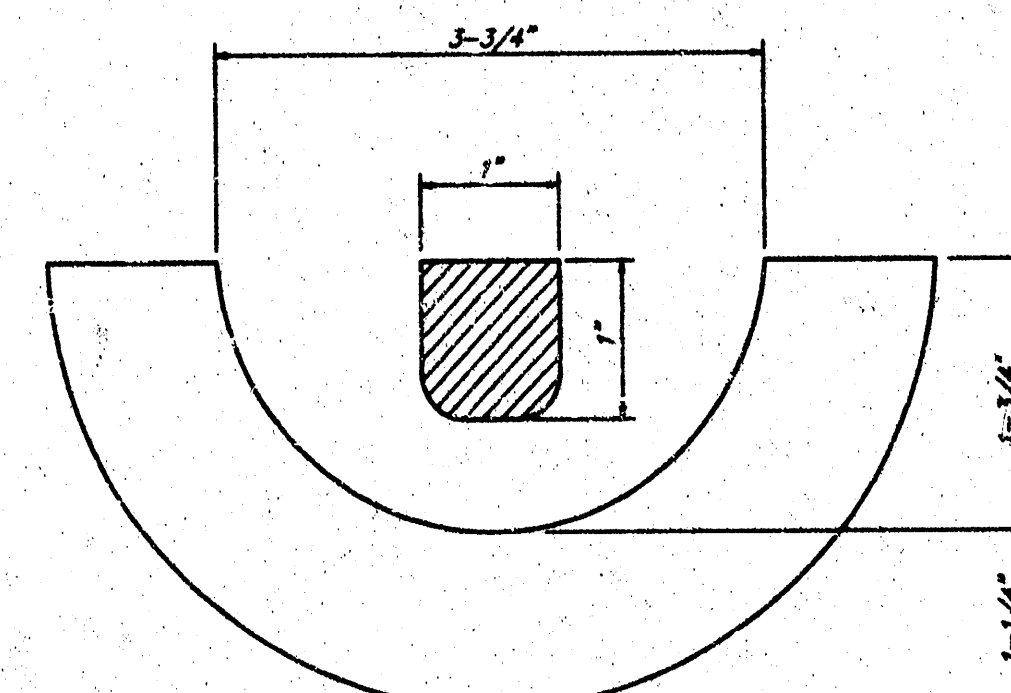


TOP VIEW

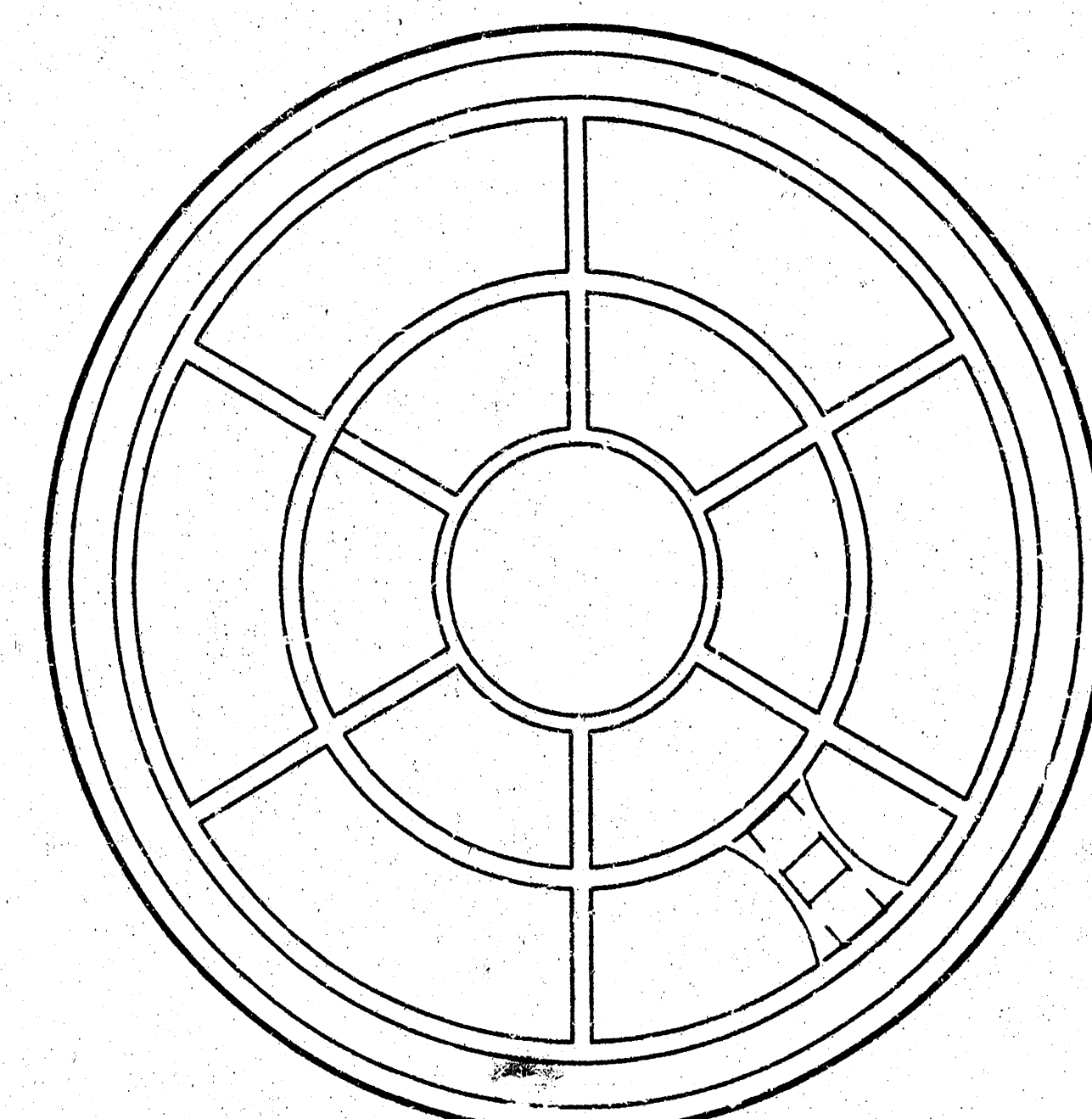
PICKHOLE DETAIL



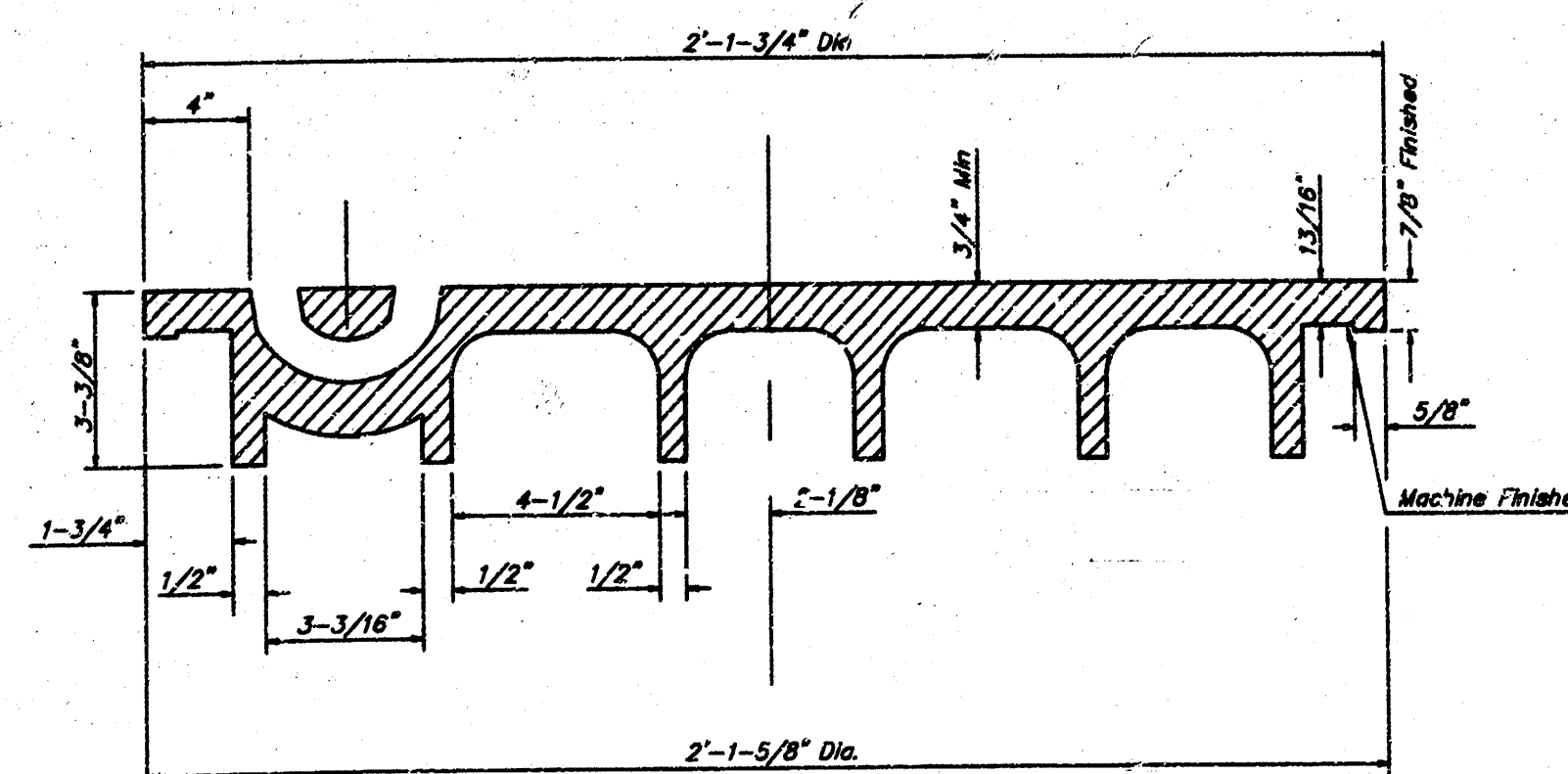
TOP VIEW



SECTION VIEW

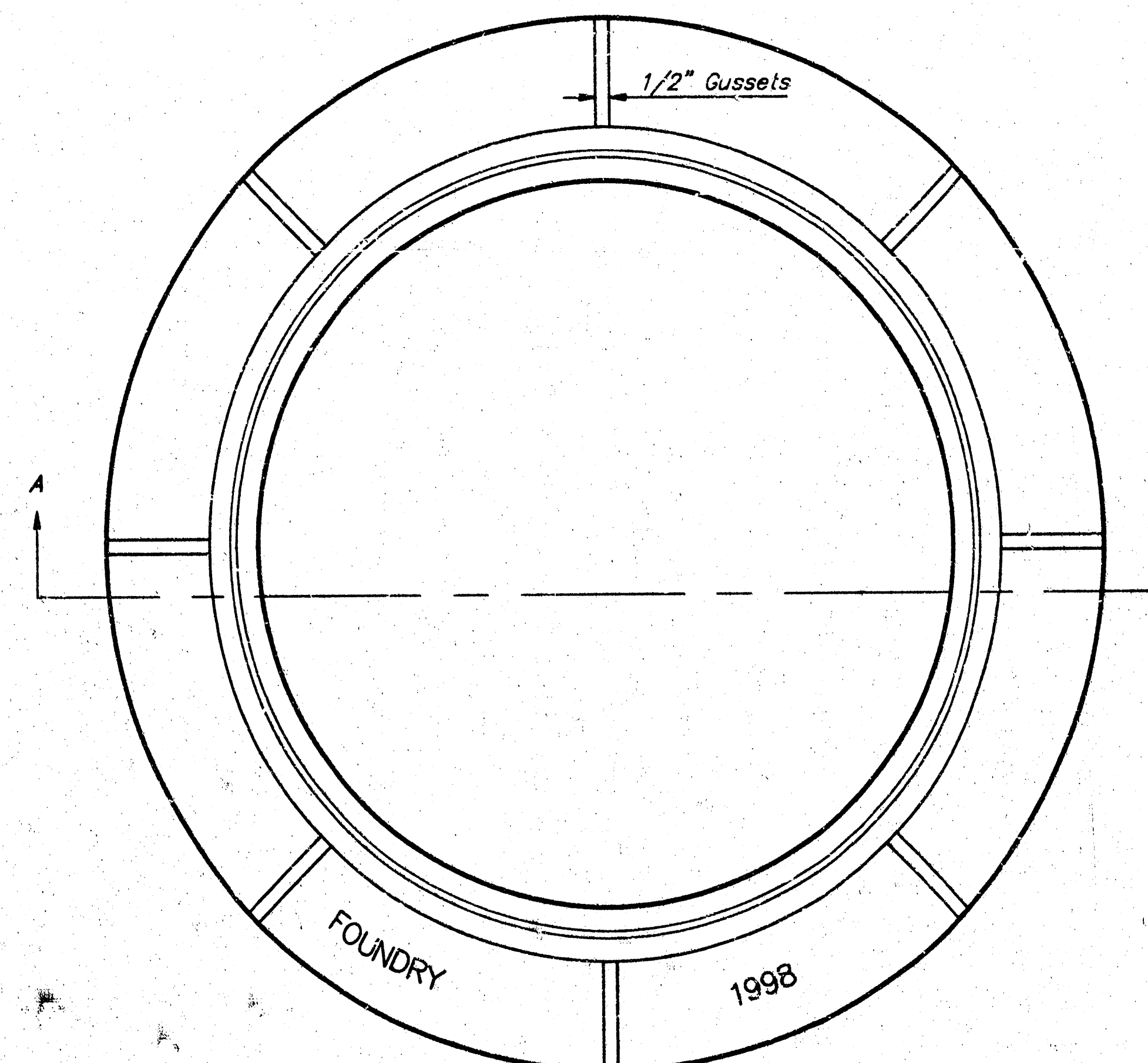


BOTTOM VIEW

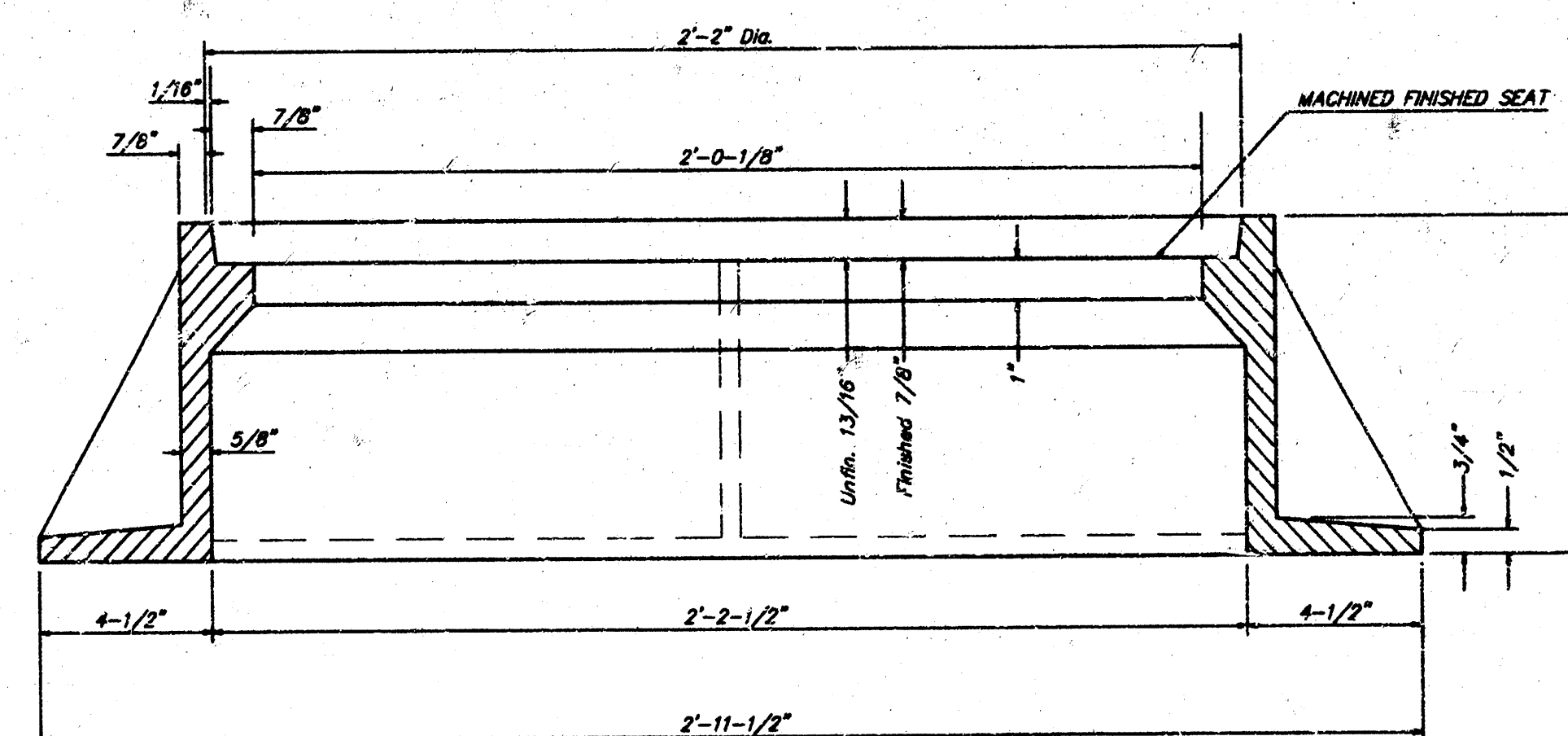


SECTION VIEW

MANHOLE FRAME
Weight = 240 Lbs.



TOP VIEW



SECTION A-A

GENERAL NOTES

MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.

MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.

THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH AS THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

MANHOLE FRAME AND COVER DETAIL			
ADOPTED AS STANDARD DESIGN BY CITY OF WICHITA, KANSAS			
BAUGHMAN COMPANY P. A.			
ENGINEERING, SURVEYING, & PLANNING			
315-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER 779 PPS (607881)		SHEET 8	
DESIGN	DRAWN Staff	APPROVED	DATE None

DETAILS W/WHING 98-02-E381

LEGEND

- = #4 REBAR W/ "BAUGHMAN" CAP (SET)
- ⊗ = #5 REBAR W/ "FORGY" CAP (FOUND)
- ⊙ = 1/2" IRON IN THIMBLE (FOUND)
- X = CROSS (SET)

(C-D) = CALCULATED PER DESCRIBED INFO.
 (C) = CALCULATED
 (D) = DESCRIBED
 (M) = MEASURED

State of Kansas) SS We, Baughman Company, P.A. Surveyors in
Sedgwick County) and do hereby certify that we have surveyed
and platted "MESSIAH BAPTIST CHURCH 4TH ADDITION", Sedgwick
County, Kansas, and that the accompanying plat is a true and correct
exhibit of the property surveyed, described as follows:

The West 40 acres of the Southwest Quarter of the Southeast Quarter of Section 3, Township 27 South, Range 2 East of the Sixth Principal Meridian, Sedgwick County, Kansas, EXCEPT that part condemned in Case 87C-1434.

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

Baughman Company, P.A.

_____, Surveyor
Michael G. Conrey

Know all men by these presents that we, the undersigned, have caused the land in the surveyors certificate to be platted into a Lot and a Block to be known as "MESSIAH BAPTIST CHURCH 4TH ADDITION", Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. All abutters rights of access to or from 21st Street North over and across the south line of Lot 1, Block A, are hereby granted to the appropriate governing body provided, however, that said Lot 1 shall have access to 21st Street North at three locations over all except the west 289 feet of said south line as shall be determined by the Engineer for the appropriate governing body.

Messiah Baptist Church, Inc.

_____, *President*

State of Kansas) SS The foregoing instrument acknowledged before
Sedgewick County) me, this _____ day of _____, 199_, by _____, President
of Messiah Baptist Church, Inc., on behalf of the corporation.

My App't. Exp. _____, Notary Public

*This plat of "MESSIAH BAPTIST CHURCH 4TH ADDITION",
Wichita, Sedgwick County, Kansas has been submitted to and
approved by the Wichita-Sedgwick County Metropolitan Area
Planning Commission, Wichita, Kansas.
Dated this _____ day of _____, 199____
Wichita-Sedgwick County Metropolitan Area Planning Commission*

_____, Chairman
John C. Frye

_____, Secretary
Marvin S. Krout

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this _____ day of _____, 199__.

_____, Mayor
Bob Knight

_____, City Clerk
Pat Burnett

This plat approved and all dedications shown hereon accepted by the Board of Commissioners of Sedgwick County, Kansas, this _____ day of _____, 190__

_____, Chairman
Thomas G. Winters

_____, Chair Pro-Tem
Paul W. Hancock

_____, Commissioner
Betsy Gwin

_____, Commissioner
Melody C. Miller

_____, Commissioner
Mark F. Schroeder

_____, County Clerk
James Alford

Entered on transfer record this _____ day
of _____, 199__.

_____, County Clerk
James Alford

State of Kansas) SS
Sedgwick County) This is to certify that this plat has been
filed for record in the office of the Register of Deeds, this ____ day
of _____, 199__, at ____ o'clock ____ M; and is duly recorded.

_____, Register of Deeds
Larry Consolver

_____, Deputy
Michael D. Hurtt

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
(316)-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211
DOW CITY, MO. 65102-2303