

**GENERAL NOTES**

- UNLESS SHOWN OR OTHERWISE STATED ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS.
- THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
- ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
- 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.
- TREES TO BE REMOVED ARE MARKED . . . ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
- CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
- EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF SEVENTY-TWO (72) HOURS TO UTILITY COMPANIES TO STARTING ANY EXCAVATION AS FOLLOWS:  
 KANSAS ONE-CALL 800-344-7233  
 OR LOCAL WICHITA 687-2470  
 THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:  
 COX COMMUNICATIONS (CABLE) 262-0661  
 WESTAR (ELECTRIC) 383-8600  
 KANSAS GAS SERVICE (GAS) 832-3101  
 SBC (TELEPHONE) 800-870-8390  
 CITY OF WICHITA WATER & SEWER 262-6000
- 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.
- CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITY AND/OR PAVING CONTRACTORS ON SITE.
- CONTRACTOR SHALL RESEED AND MULCH ALL DISTURBED AREAS. COST SHALL BE CONSIDERED SUBSIDIARY TO SITE RESTORATION. SEE SHEET
- CONTRACTOR TO REFER TO SWPP FILED ON SITE FOR EROSION/SEDIMENT CONTROL
- WORK DONE UNDER THIS PROJECT IS SUBJECT TO THE CITY OF WICHITA REQUIREMENTS FOR "CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACT." THE CONTRACTOR SHALL BE FAMILIAR AND COMPLY WITH ALL OF THE REQUIREMENTS, INCLUDING BONDING, INSPECTION, TESTING, NOTIFICATION, PROVIDING AS-BUILT DRAWINGS, PAYING FOR ALL NECESSARY CONNECTIONS AND/OR STREET REPAIR FEES AND PROVIDING PIPE MATERIAL AND OTHER CERTIFICATIONS.
- ALL STORM SEWER TRENCHES TO BE BACKFILLED WITH SAND, FLUSHED & VIBRATED WHERE STORM SEWER TRENCHES RUN BENEATH THE PROPOSED BUILDING.

**CONTROL POINTS**

- PT #2  
 1. PK Nail with MKEC washer  
 2. N = 1694794.89 E = 1631395.07  
 Elev. = 1316.27 NAVD 88
- PT #3  
 1. PK Nail with MKEC washer  
 2. N = 1694664.67 E = 1631369.14  
 Elev. = 1317.36 NAVD 88
- PT #7  
 1. PK Nail with MKEC washer  
 2. N = 1693943.35 E = 1631741.59  
 Elev. = 1314.22 NAVD 88
- PT #8  
 1. PK Nail with MKEC washer  
 2. N = 1693949.05 E = 1631483.51  
 Elev. = 1315.35 NAVD 88
- PT #13  
 1. PK Nail with MKEC washer  
 2. N = 1694661.99 E = 1631112.90  
 Elev. = 1317.62 NAVD 88

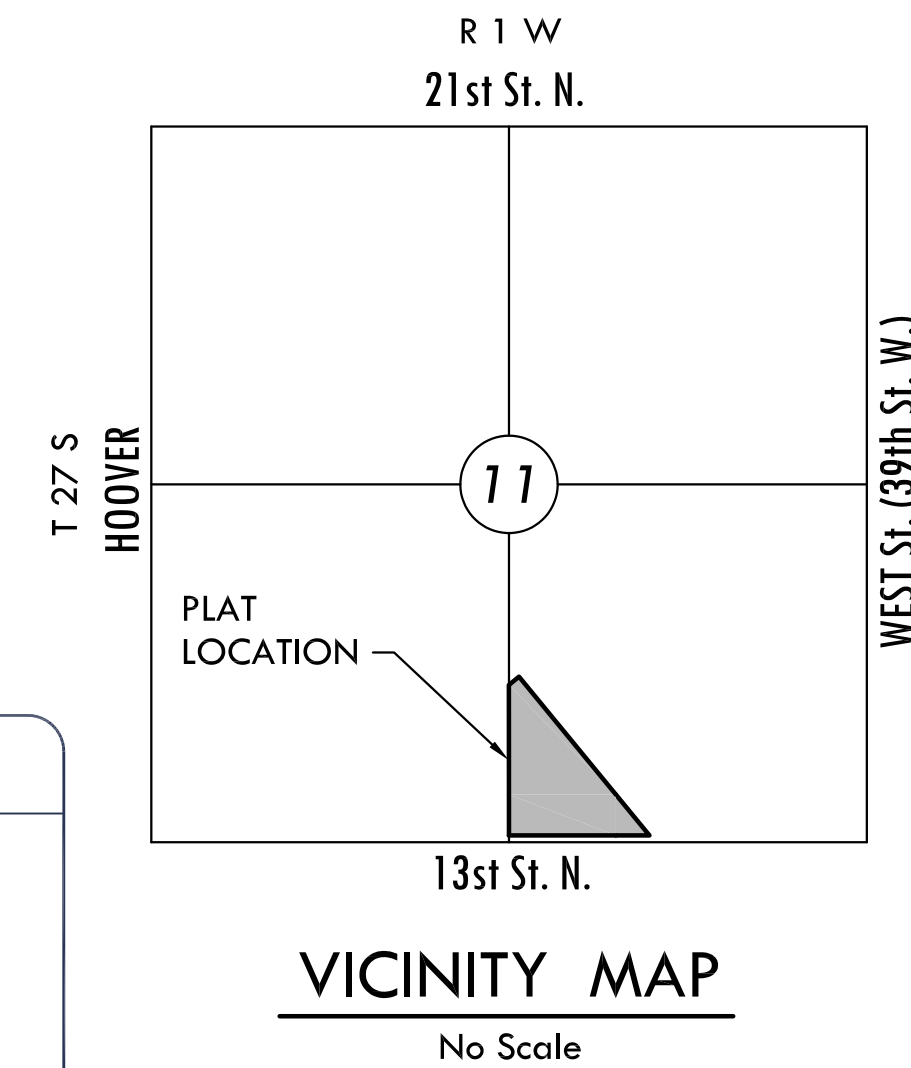
PRIVATE STORM WATER SEWER  
 TO SERVE  
**PRESBYTERIAN MANOR**

PROJECT NO. 0163PPD  
 THE CITY OF WICHITA, KANSAS  
 GARY JANZEN, P.E. - CITY ENGINEER  
 OCA NO. 607861

DISTURBED AREA=1.6 AC INCREASE BEYOND EXISTING  
 PROPOSED IMPERVIOUS=9.4 AC  
 DETENTION=N/A  
 WQv=0.28 AC-FT  
 Cp = N/A  
 WQv IS PROVIDED BY A HYDROGUARD UNIT. CP IS PROVIDED BY AN EXISTING DETENTION POND. THIS OVERALL PROJECT SATISFIES CHAPTER 16.32 OF THE CITY CODE BY THE CONSTRUCTION OF A HYDROGUARD UNIT FOR WATER QUALITY TREATMENT.

**AS BUILTS**

Contractor: McCullough Excavation, Inc. 4/24/2015  
 Project Inspector: Larry Gann  
**KEMILLER ENGINEERING PA**  
 117 E. Lewis, Wichita, KS 67202 (316)264-0242

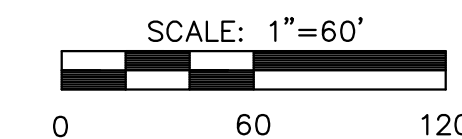


**INDEX TO DRAWINGS**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	STORM WATER DETAILS
5	SWS LINE 1
6	SWS LINE 1-3
7	SWS LINE 4
8	SWS LINE 5-6
9	SWS LINE 7
10	SWS LINE 8
11	SWS LINE 9-10
12	SWS LINE 11
13	SWS LINE 11
14	SWS LINE 12

**BENCHMARKS**

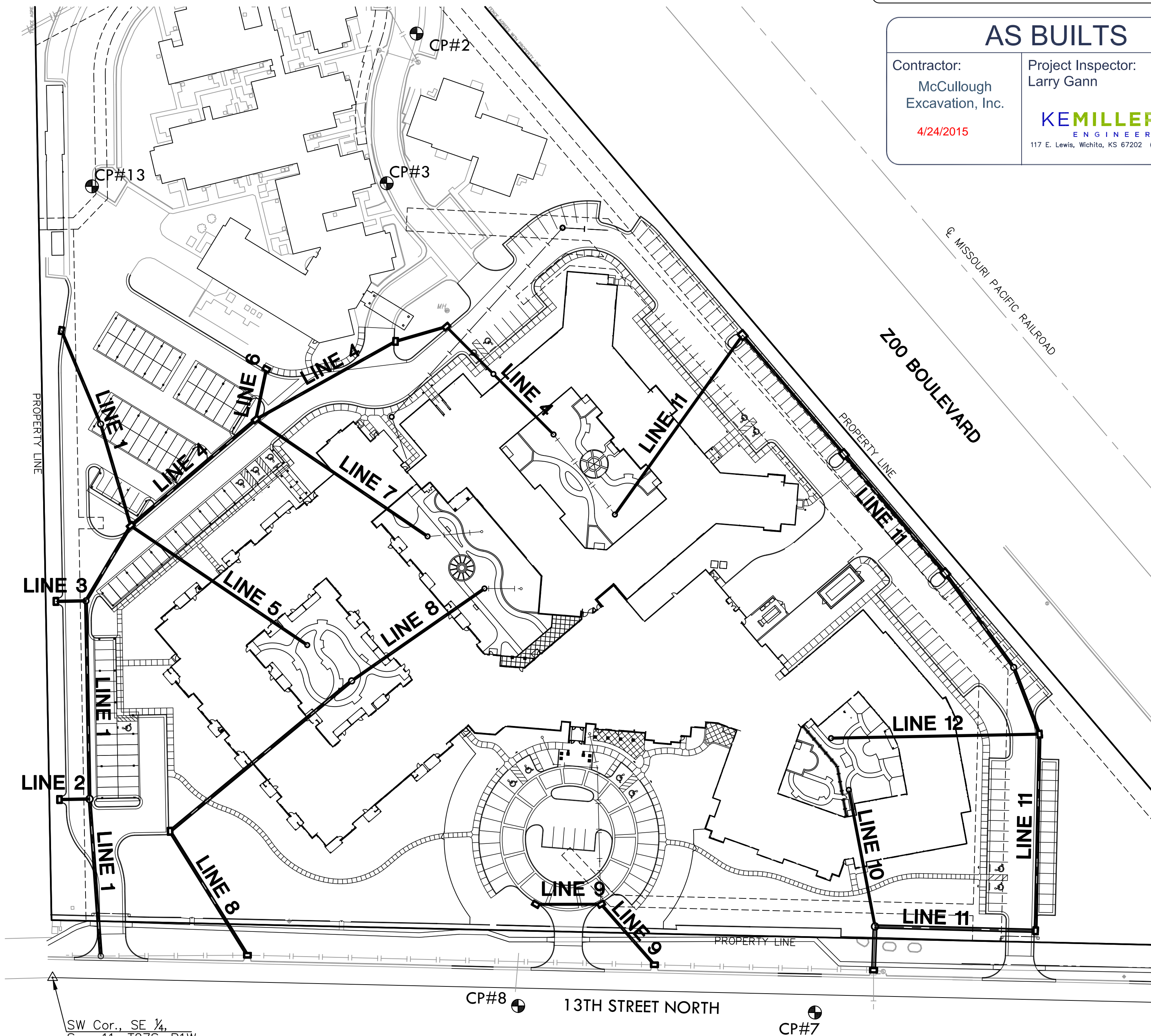
BM#1 PK Nail and Washer on South side of 13th Street North, in line with East edge of East drive into Presbyterian Manor, 34 feet South of back of North curb of 13th Street.  
 Elev. = 1314.21 (NAVD 88)



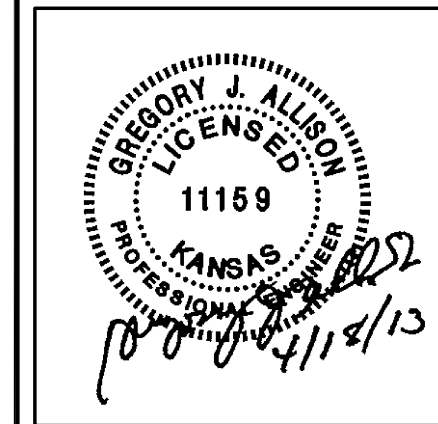
**APPROVED AS NOTED  
 BY CITY ENGINEER OF WICHITA,  
 BY STORMWATER DEPARTMENT**

Engineering: *Julianne Kallman 4-23-13*  
 Storm Water (Public Works): *[Signature] 05/02/13*

**NOTE TO CONTRACTORS**  
**Public Property.**  
 Inspection and testing for the storm water sewer 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 Professional Engineer licensed in the state of Kansas. No work shall be performed in dedicated easements or public rights-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).



**MKEC**  
 ENGINEERING  
 CONSULTANTS, INC.  
 411 N. WEBB ROAD  
 WICHITA, KS. 67206  
 316-684-9600



PRIVATE STORM WATER SEWER PLAN FOR  
**PRESBYTERIAN MANOR**  
 WICHITA, KANSAS

**SWS TITLE SHEET**

SHEET TITLE  
 0163PPD  
 PROJECT NUMBER

SPE / BKS / GJA  
 DESIGNED DRAWN CHECKED

ISSUED  
 April 2013

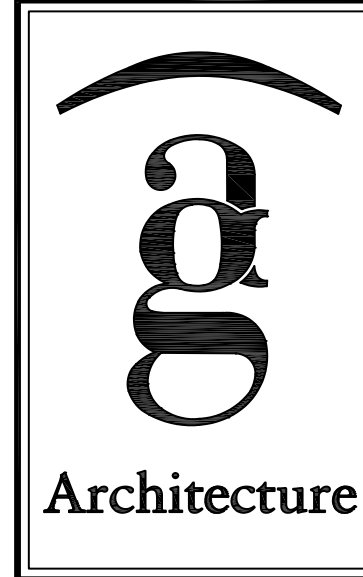
REVISED

SHEET NO.  
 1 of 14

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DRAWN BY  
 BKS  
 DATE  
 05. JUNE. 2013  
 PROJECT  
 111601  
 SHEET NO.



1616 UNDERWOOD AVE.  
 WAUWATOSA, WI 53133  
 414.431.2131 TOLL FREE  
 414.431.0931 FAX  
 WWW.AGARC.COM  
 Architecture  
 Engineering  
 Planning

FILED: MCKEY 14  
 BY: JUSEE BURGAS  
 11:51 AM  
 APR 23 2013  
 WICHITA, KANSAS  
 COUNTY: SHERMAN  
 DISTRICT: 14

PLotted: Thursday, January 09, 2014 @ 01:17PM



1414 UNDERWOOD AVE.  
WAUWATOSA, WI 53131  
414.431.5131 TEL  
414.431.0531 FAX  
WWW.AGARCH.COM  
Architecture  
Engineering  
Planning

REVISIONS

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DRAWN BY  
BKS  
DATE  
05. JUNE. 2013  
PROJECT  
111601  
SHEET NO.

**MKEC**  
ENGINEERING  
CONSULTANTS, INC.  
411 N. WEBB ROAD  
WICHITA, KS. 67206  
316-684-9600

- GENERAL NOTES**
1. CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
  2. CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN W=5'-0" AND H=7'-0" OR LESS.
  3. 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.
  4. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
  5. INLET FRAME AND COVER TO BE DEETER #2014, EJIW #1936 Z4, OR APPROVED EQUAL, SEE SW-303.
  6. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.

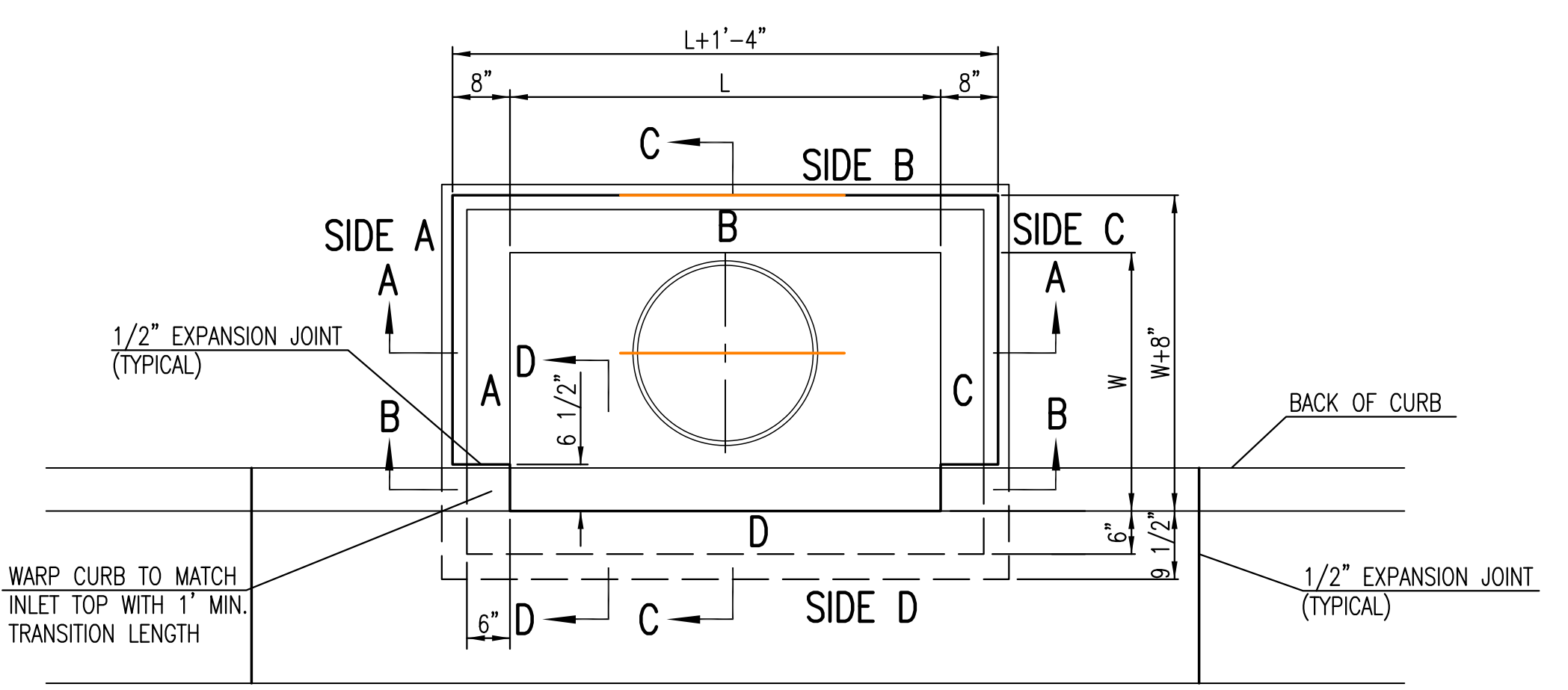
PRECAST CURB INLET WIDTHS

W	PRE-CAST TOP SIZE		PIPE DIA.**
	WIDTH	LENGTH	
3'-0"	W+8"	L+1'-4"	21" & SMALLER
4'-0"	W+8"	L+1'-4"	24" & 30"
5'-0"	W+8"	L+1'-4"	36" & 42"
6'-0"	W+8"	L+1'-4"	48" & 54"
7'-0"	W+8"	L+1'-4"	60" & 66"

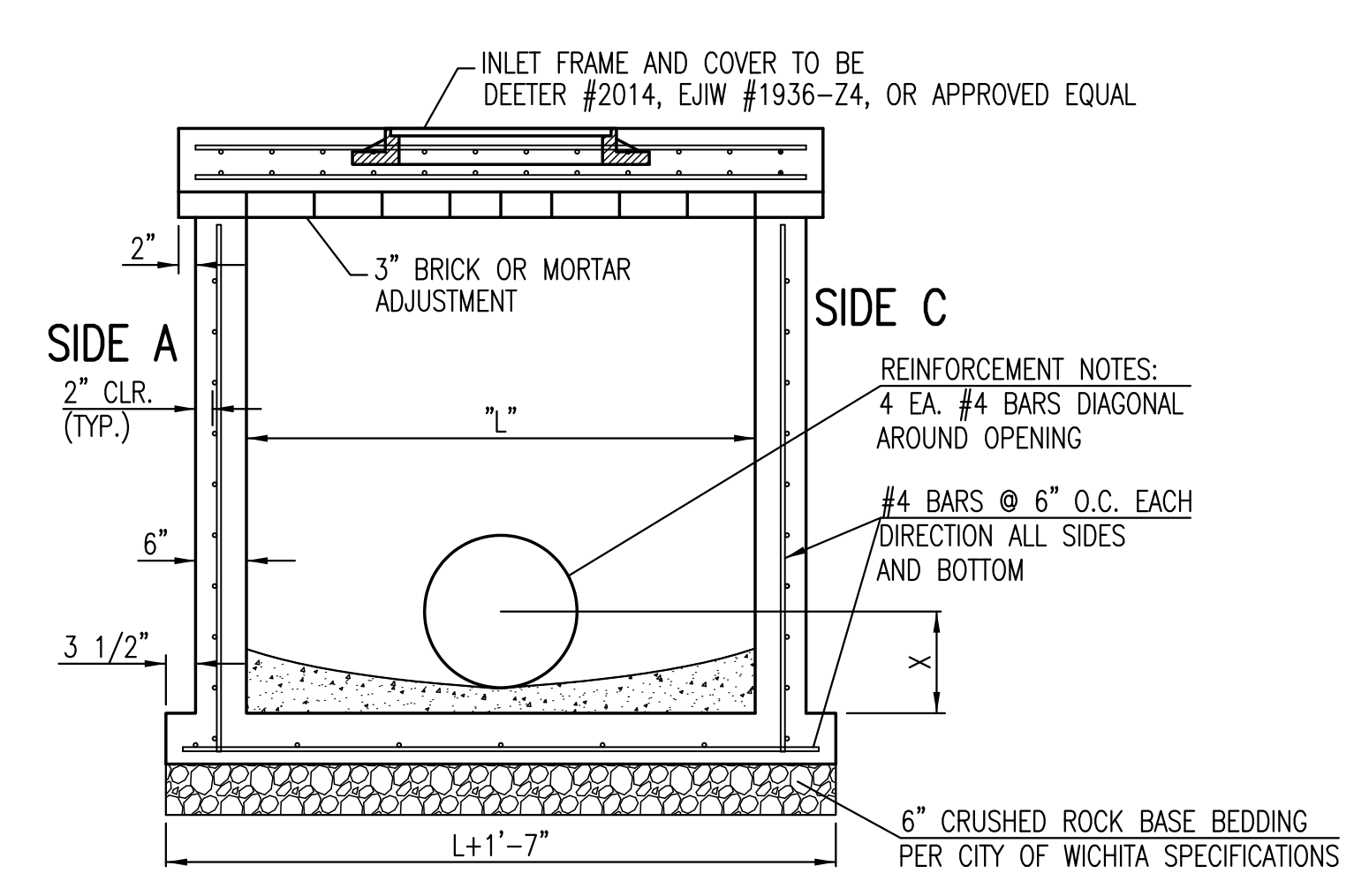
\*\* FOR PIPES PERPENDICULAR TO INLET WALL

BAR SCHEDULE

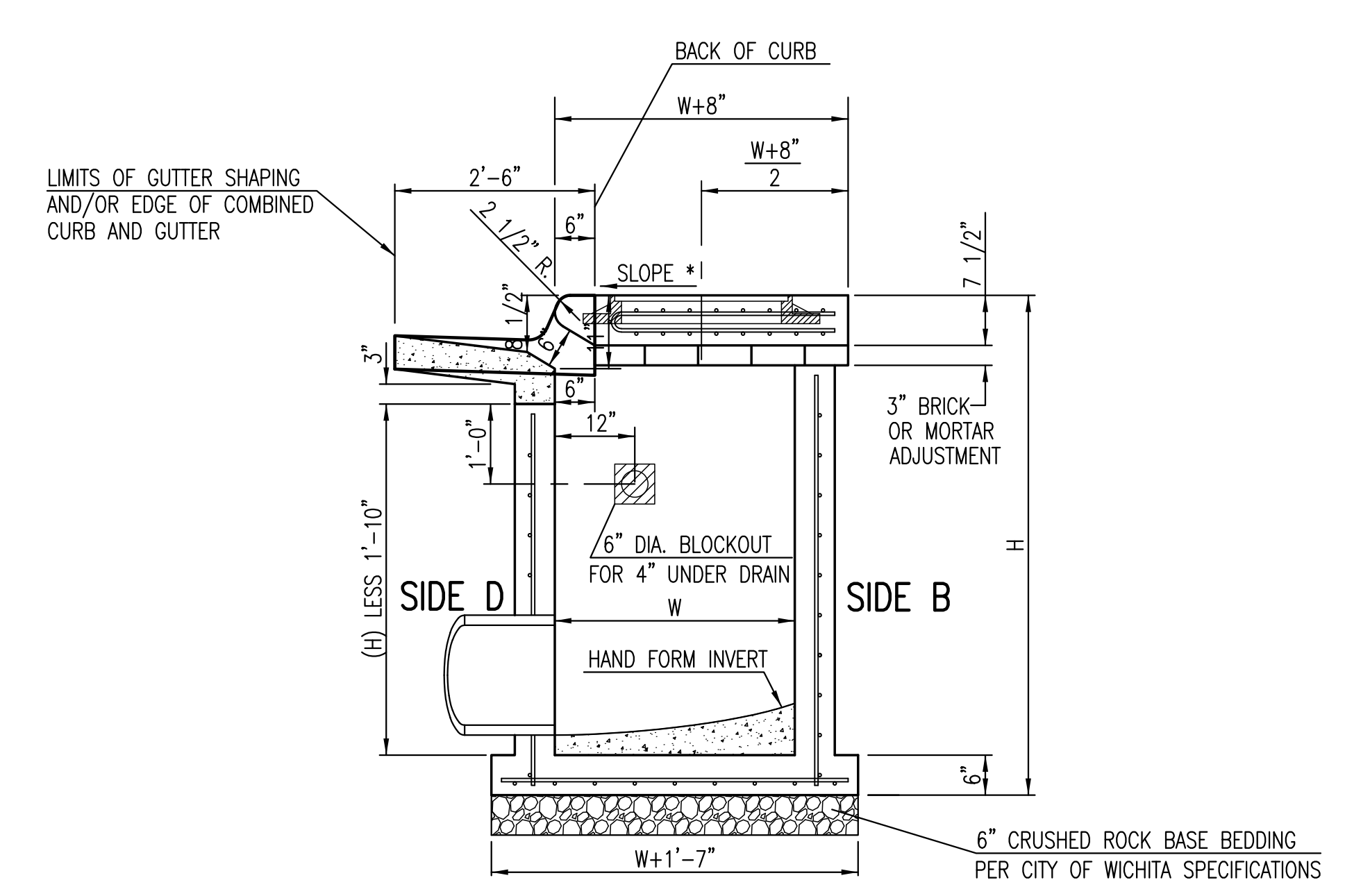
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"



TOP VIEW

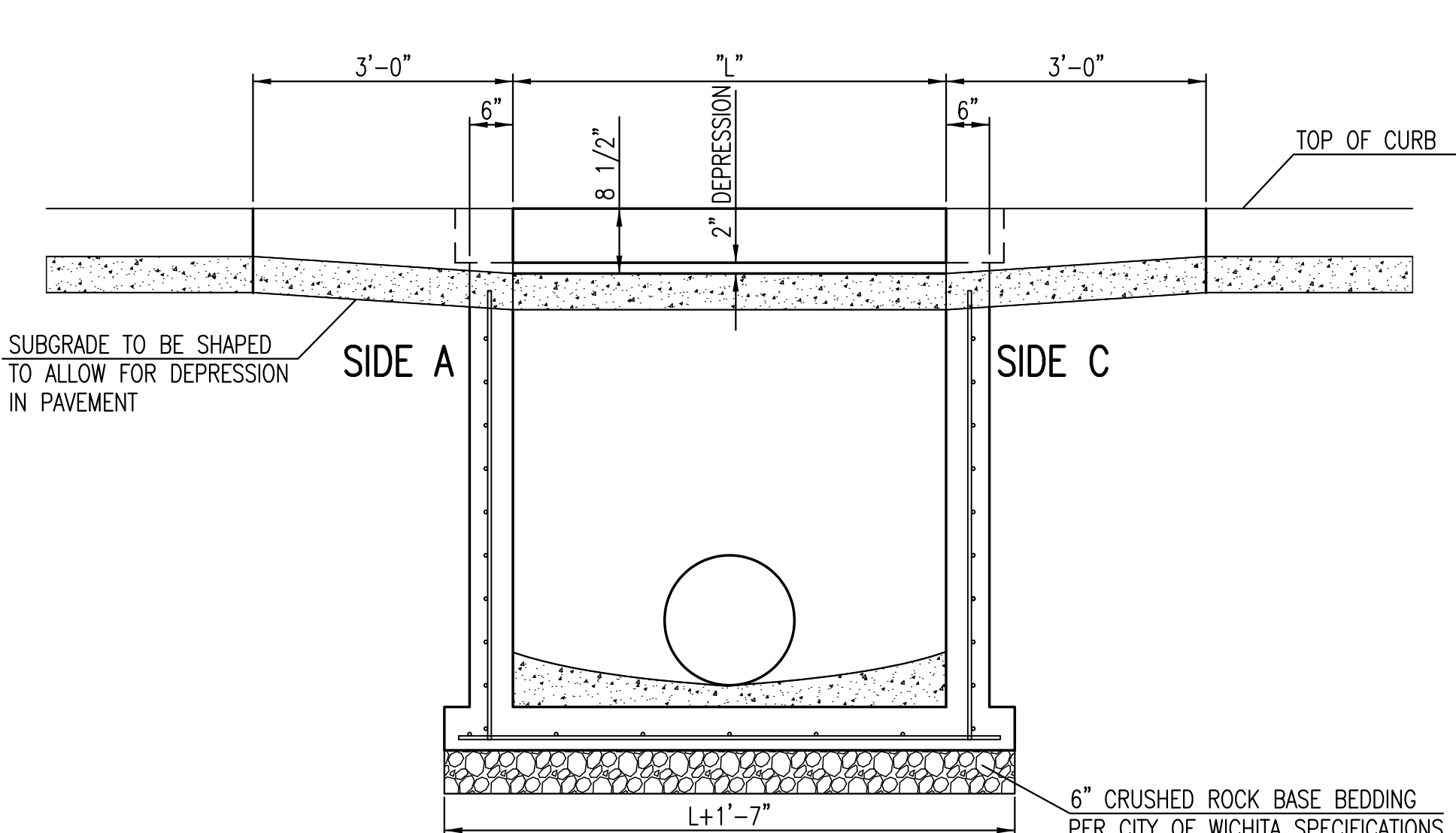
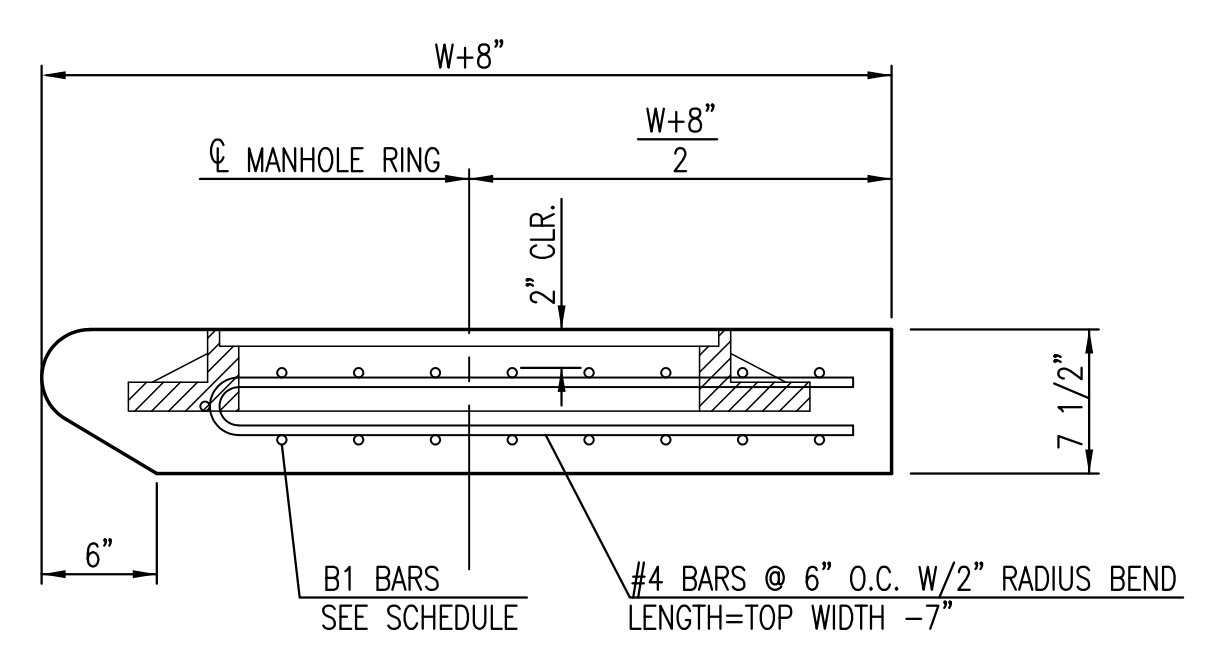


SECTION "A-A"

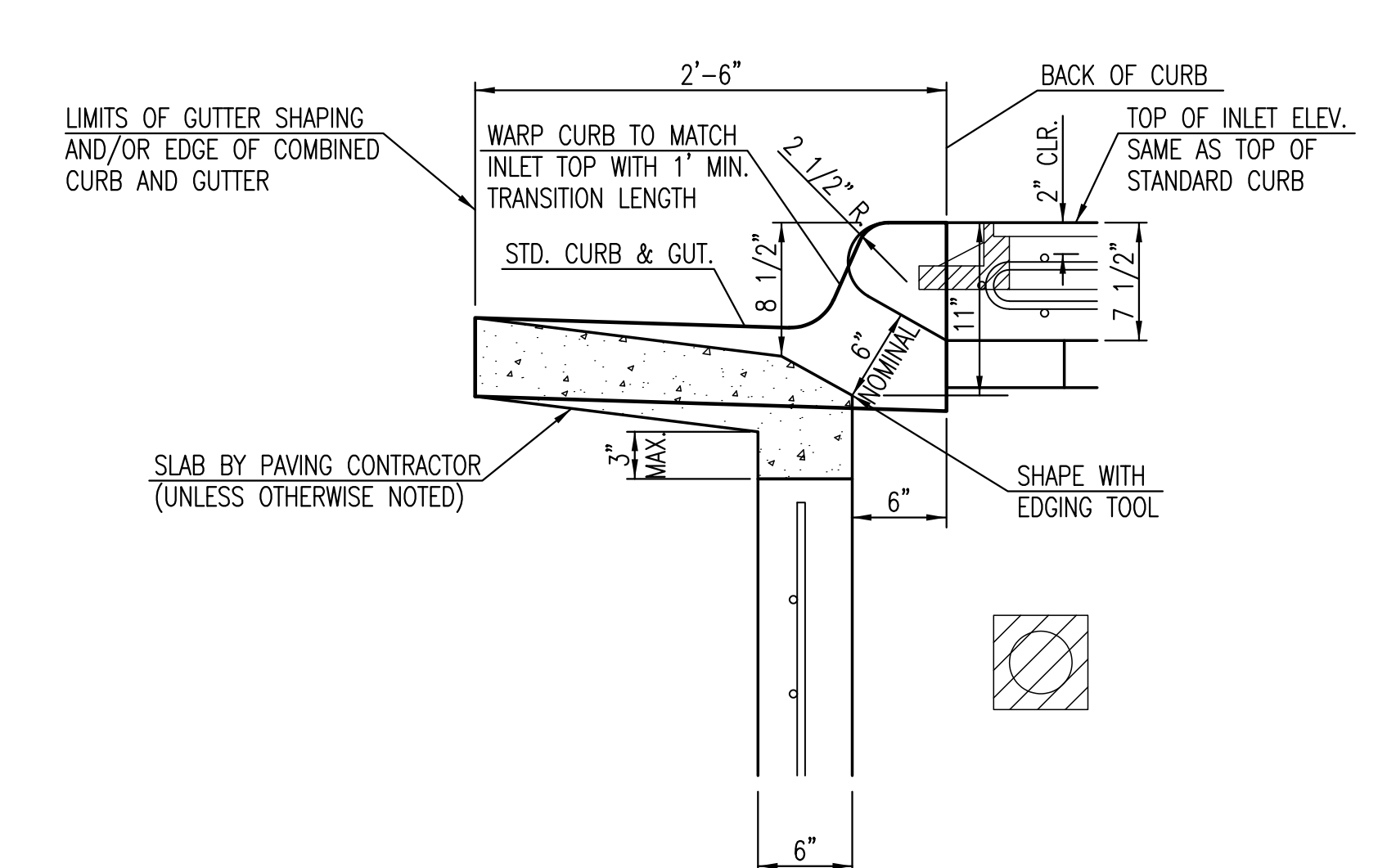


SECTION "C-C"

NOTES:  
\* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.



SECTION "B-B"



SECTION "D-D"



**STANDARD TYPE 1 CURB INLET**  
5'-0" OR 10'-0" OPENING

CITY ENGINEER  
**GARY L. JANZEN, P.E.**

PROJECT NUMBER 0163PPD	OCA NUMBER 607861	DATE 04/2013
---------------------------	----------------------	-----------------

CITY ENGINEER'S OFFICE  
CITY HALL - SEVENTH FLOOR  
455 NORTH MAIN STREET  
WICHITA, KANSAS 67202-1620  
(316) 268-4501

DESIGN	DRAWN
SHEET <b>2 of 14</b>	

NOT FOR CONSTRUCTION  
BY USER: BKS  
DATE: 05/20/13  
FILE: INLET\_1.dwg  
PLOT: 05/20/13 10:00 AM  
PLOTTER: HP DesignJet 2450

U:\Projects\2012\1201010451\_Croystone - Presbyterian Monors\5-Civil\CAD\SWS\SW-101\_Type 1 Inlet 5' and 10'.dwg



1414 UNDERWOOD AVE.  
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414.431.0231 FAX  
WWW.AGARCH.COM  
Architecture  
Engineering  
Planning

REVISIONS

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DRAWN BY  
BKS  
DATE  
05. JUNE. 2013  
PROJECT  
111601  
SHEET NO.

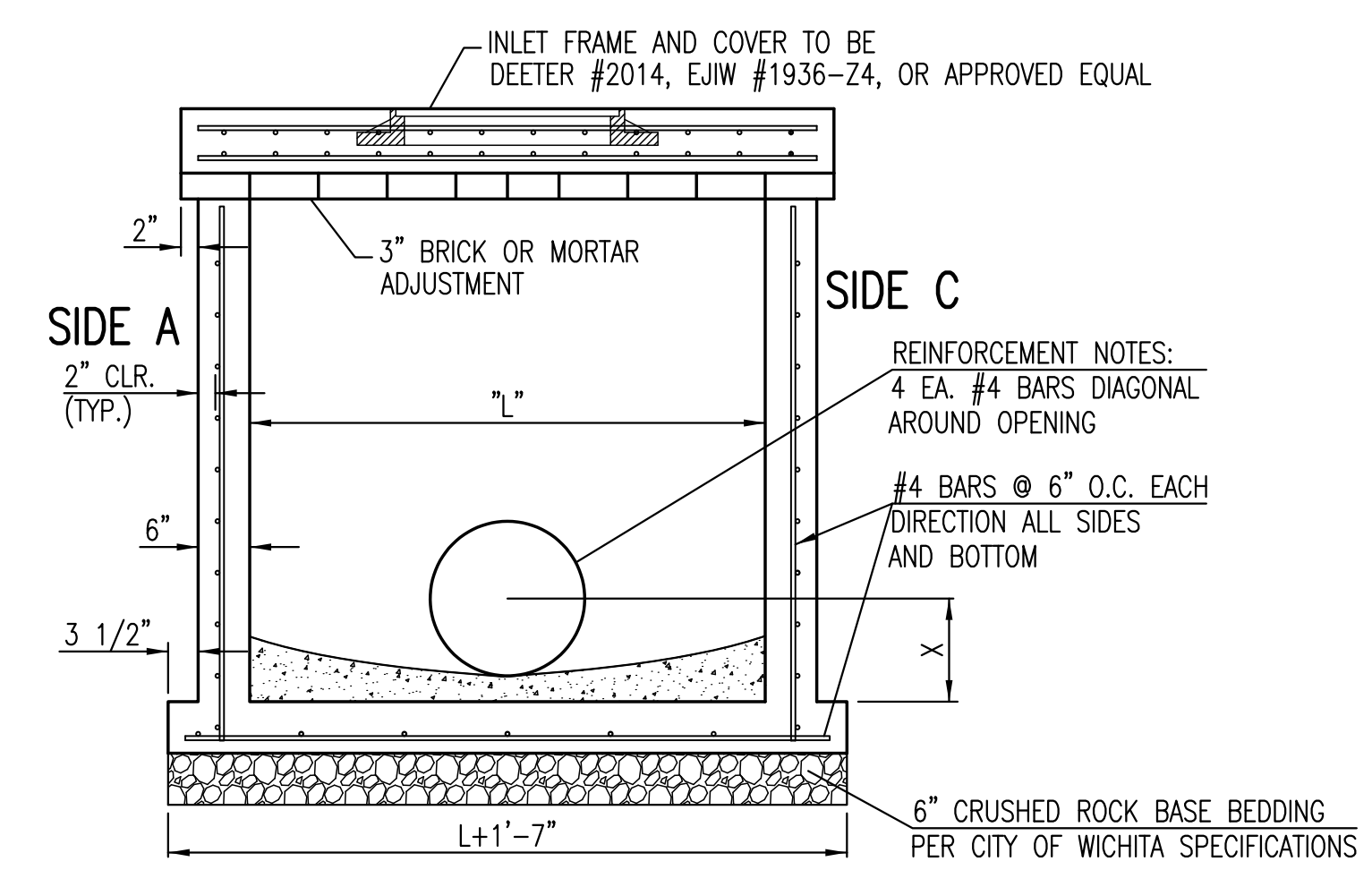
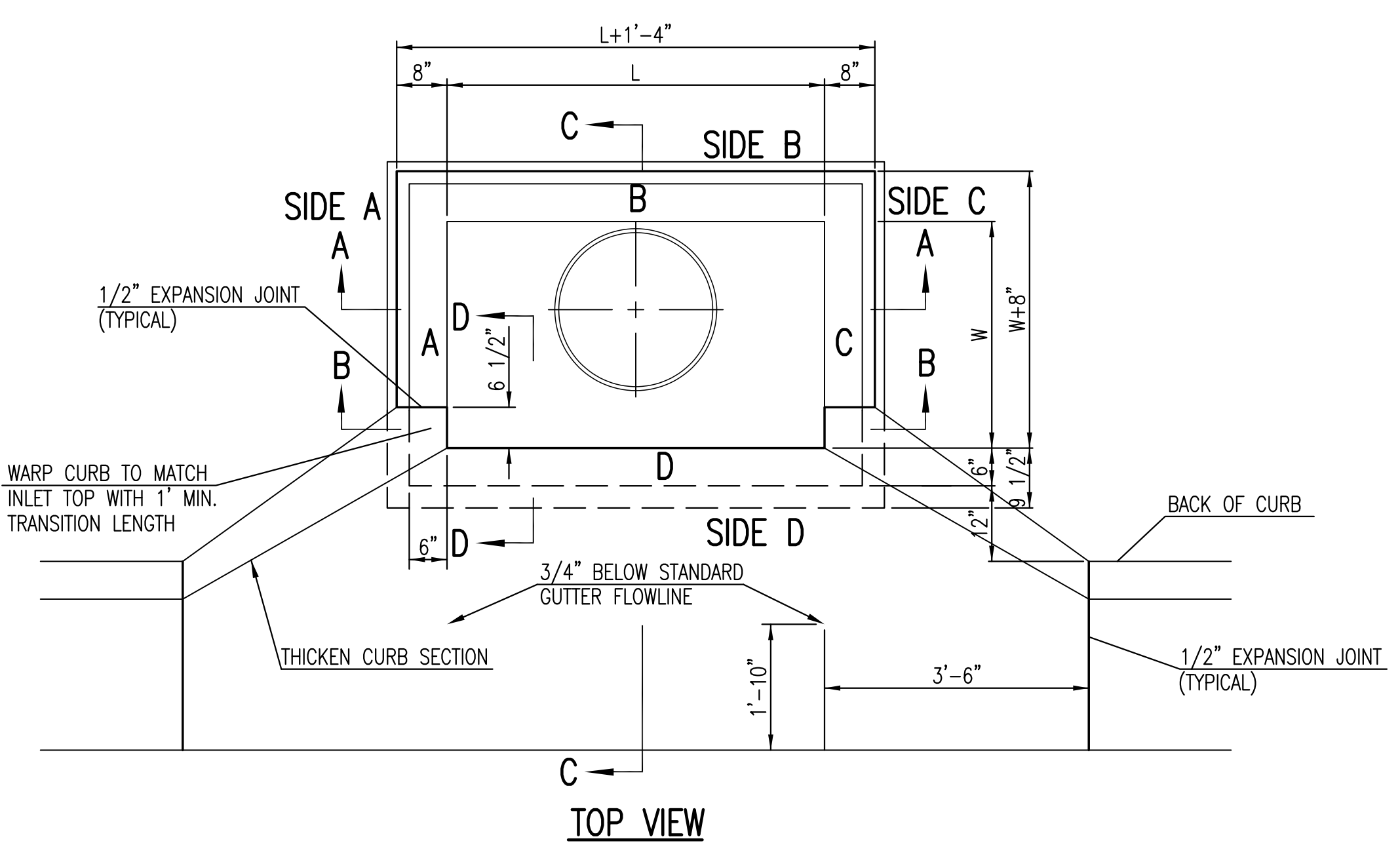
**MKEC**  
ENGINEERING  
CONSULTANTS, INC.  
411 N. WEBB ROAD  
WICHITA, KS. 67206  
316-684-9600

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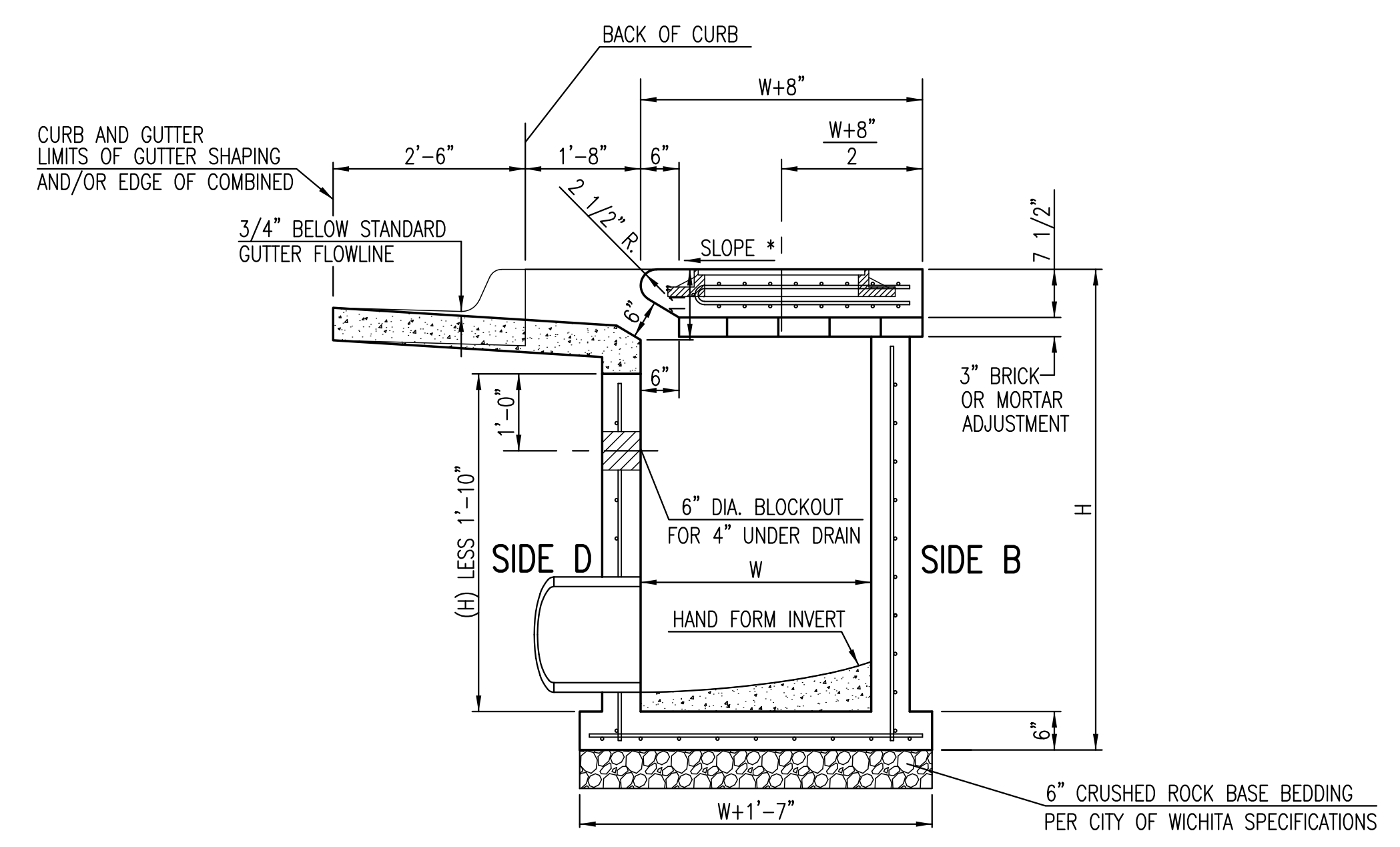
PRECAST CURB INLET WIDTHS			
W	PRE-CAST TOP SIZE		PIPE DIA.**
	WIDTH	LENGTH	
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\*\* FOR PIPES PERPENDICULAR TO INLET WALL

BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
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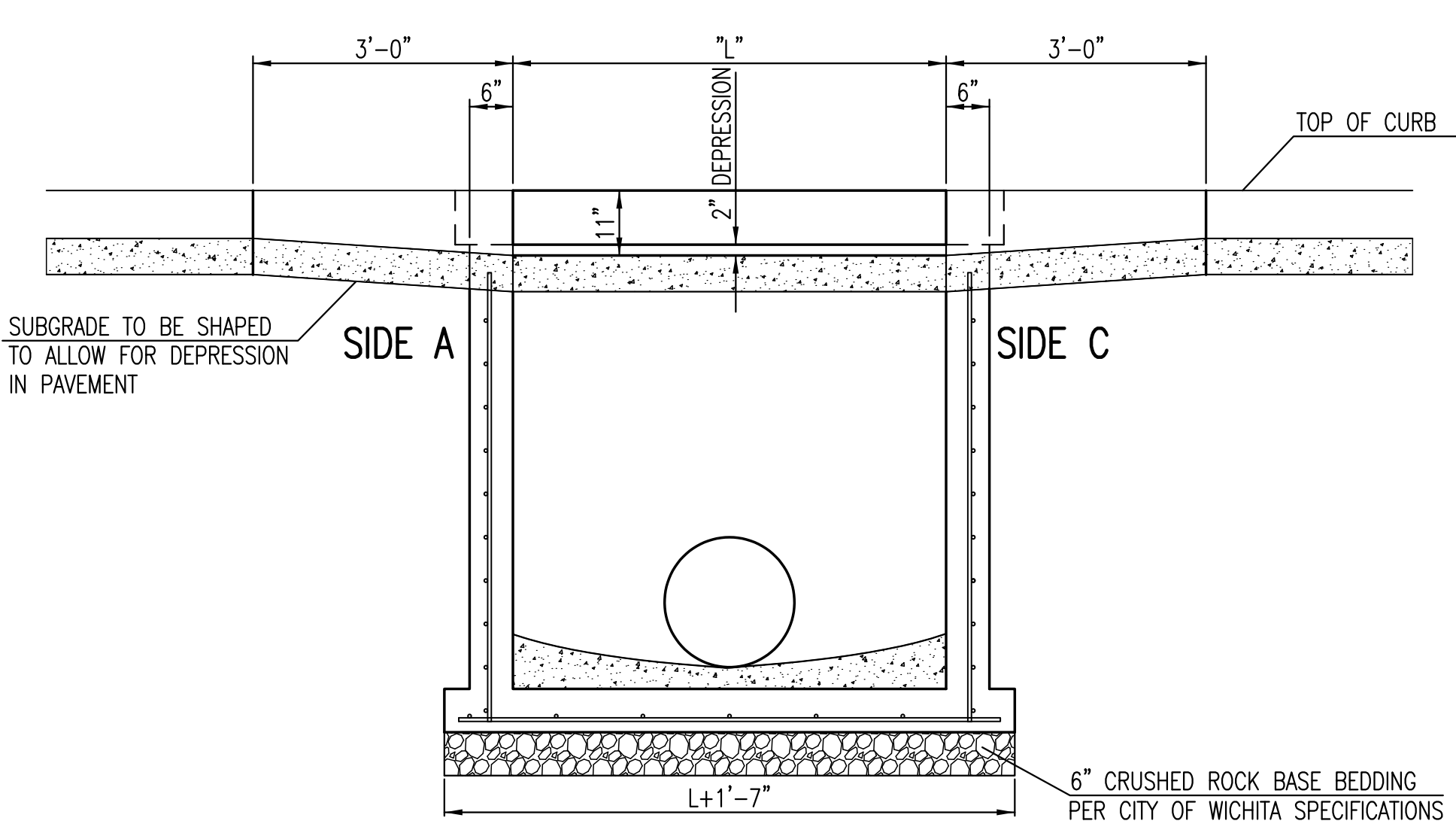
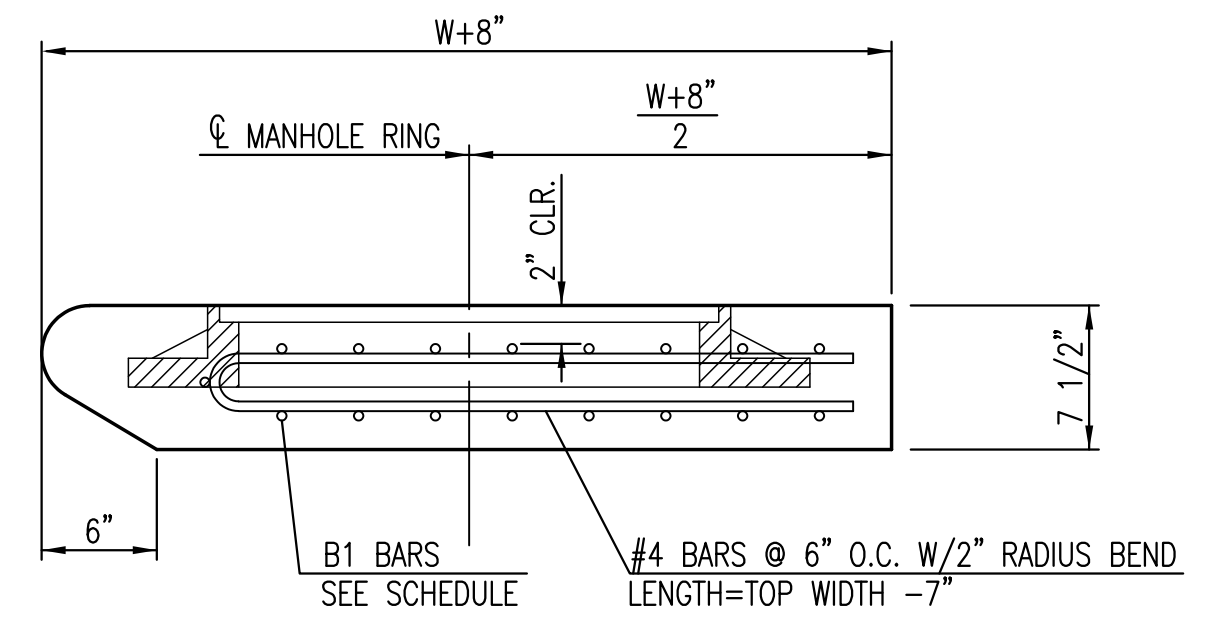


SECTION "A-A"

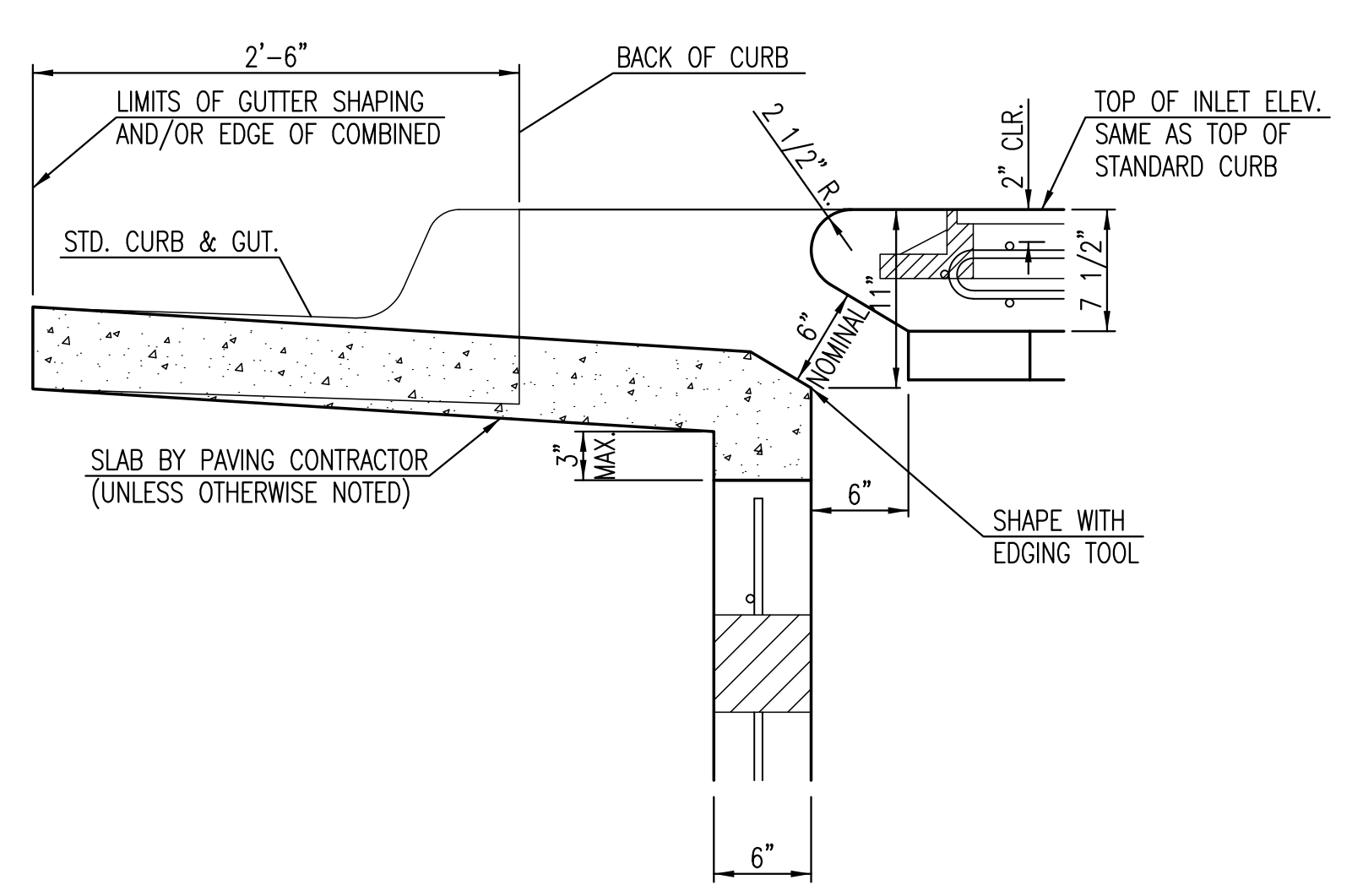


SECTION "C-C"

NOTES:  
\* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.



SECTION "B-B"



SECTION "D-D"



**STANDARD TYPE 1A CURB INLET**  
5'-0" OR 10'-0" OPENING

CITY ENGINEER  
**GARY L. JANZEN, P.E.**

PROJECT NUMBER 0163PPD	OCA NUMBER 607861	DATE 04/2013
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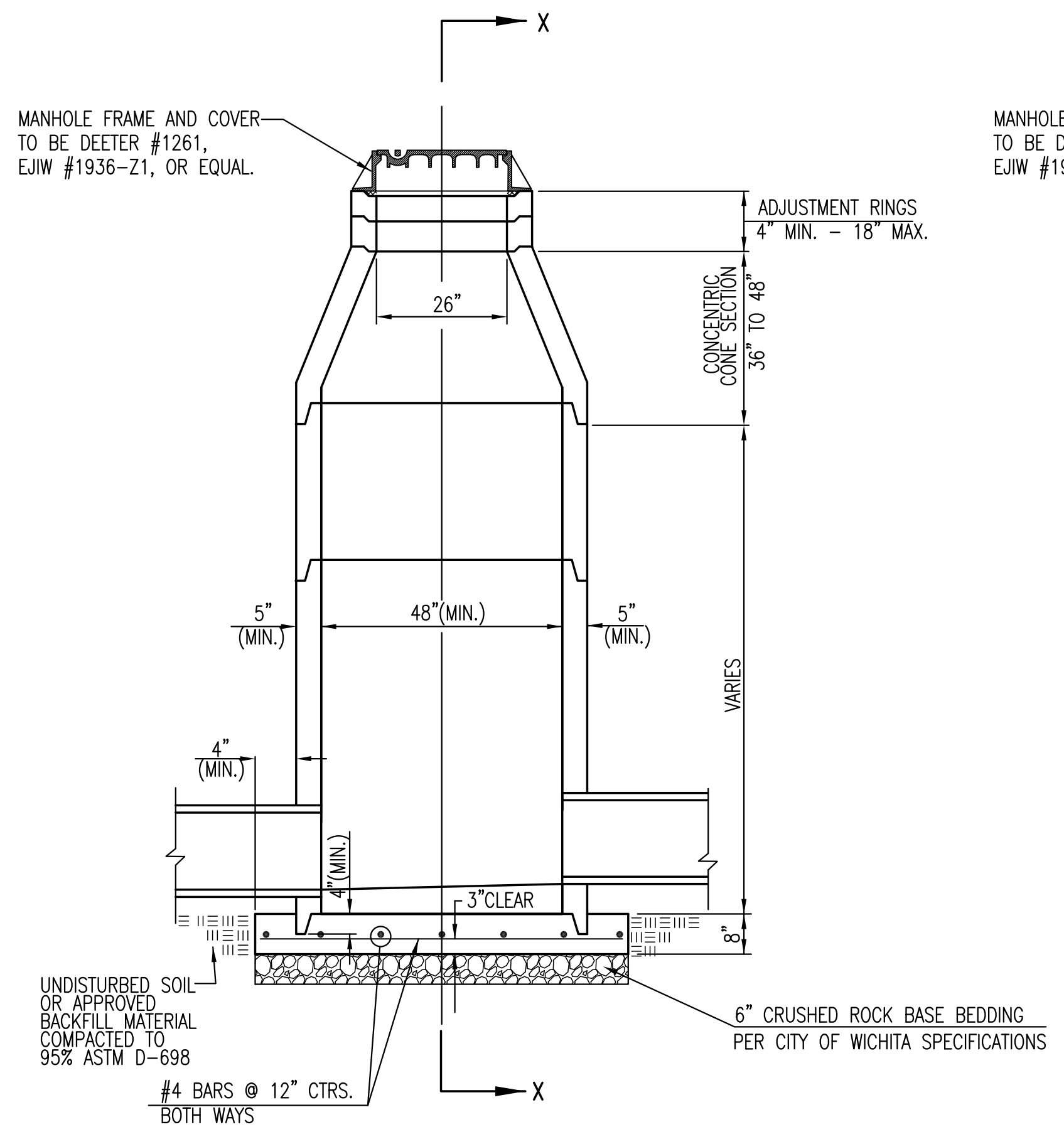
CITY ENGINEER'S OFFICE  
CITY HALL - SEVENTH FLOOR  
455 NORTH MAIN STREET  
WICHITA, KANSAS 67202-1620  
(316) 268-4501

DESIGN	DRAWN
SHEET <b>3 of 14</b>	

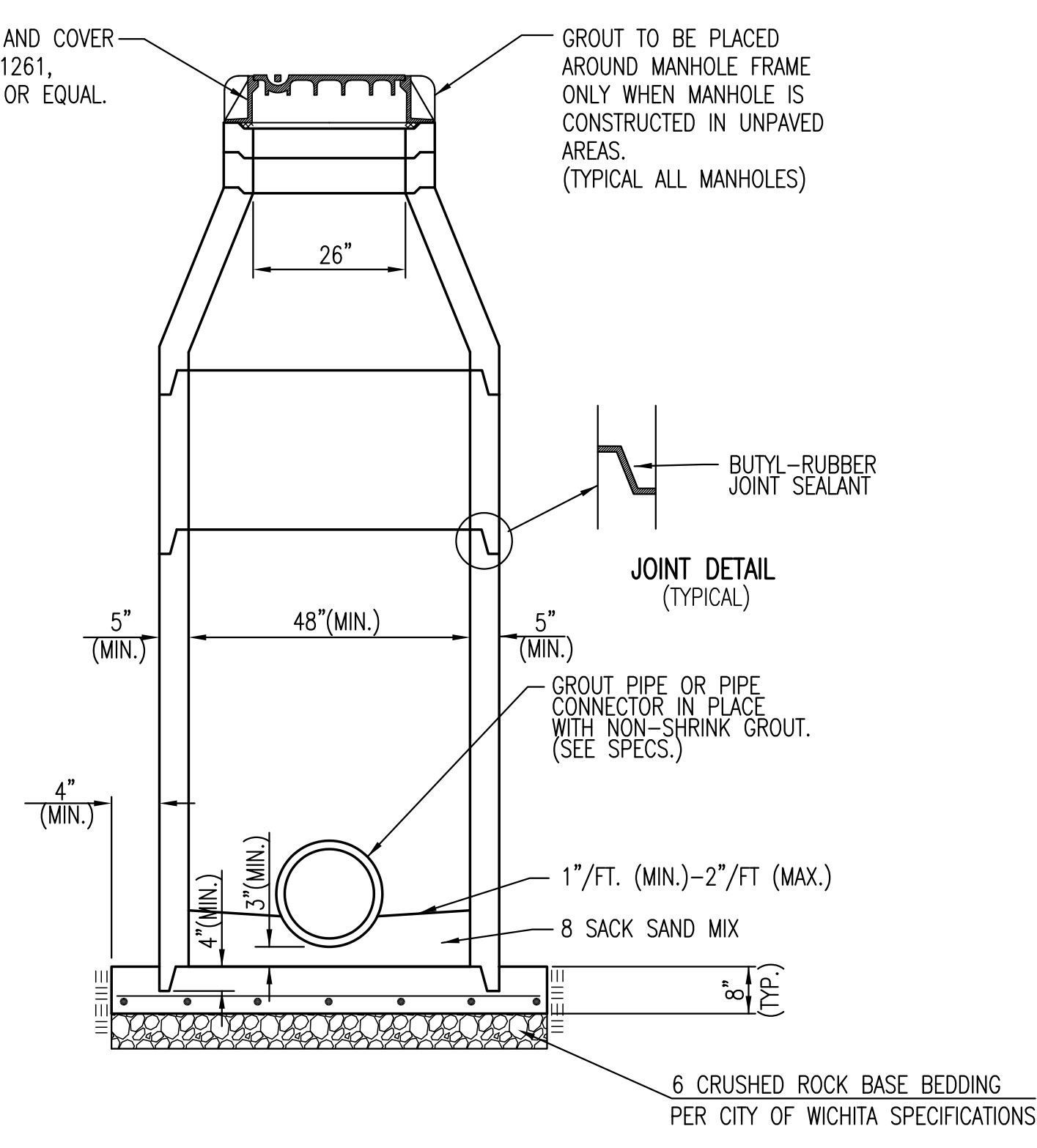
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PLOT FILE: WELLS.ctb

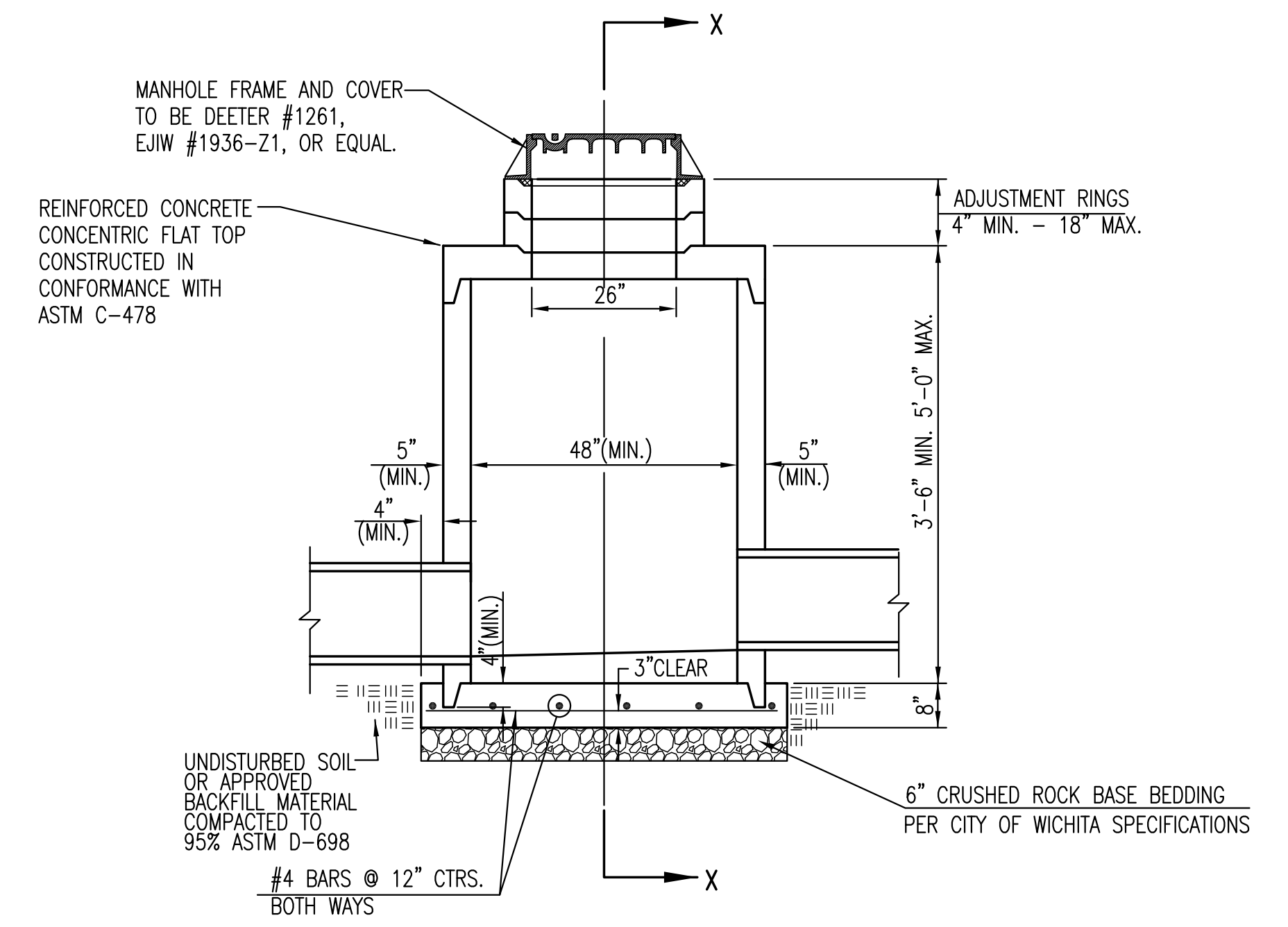
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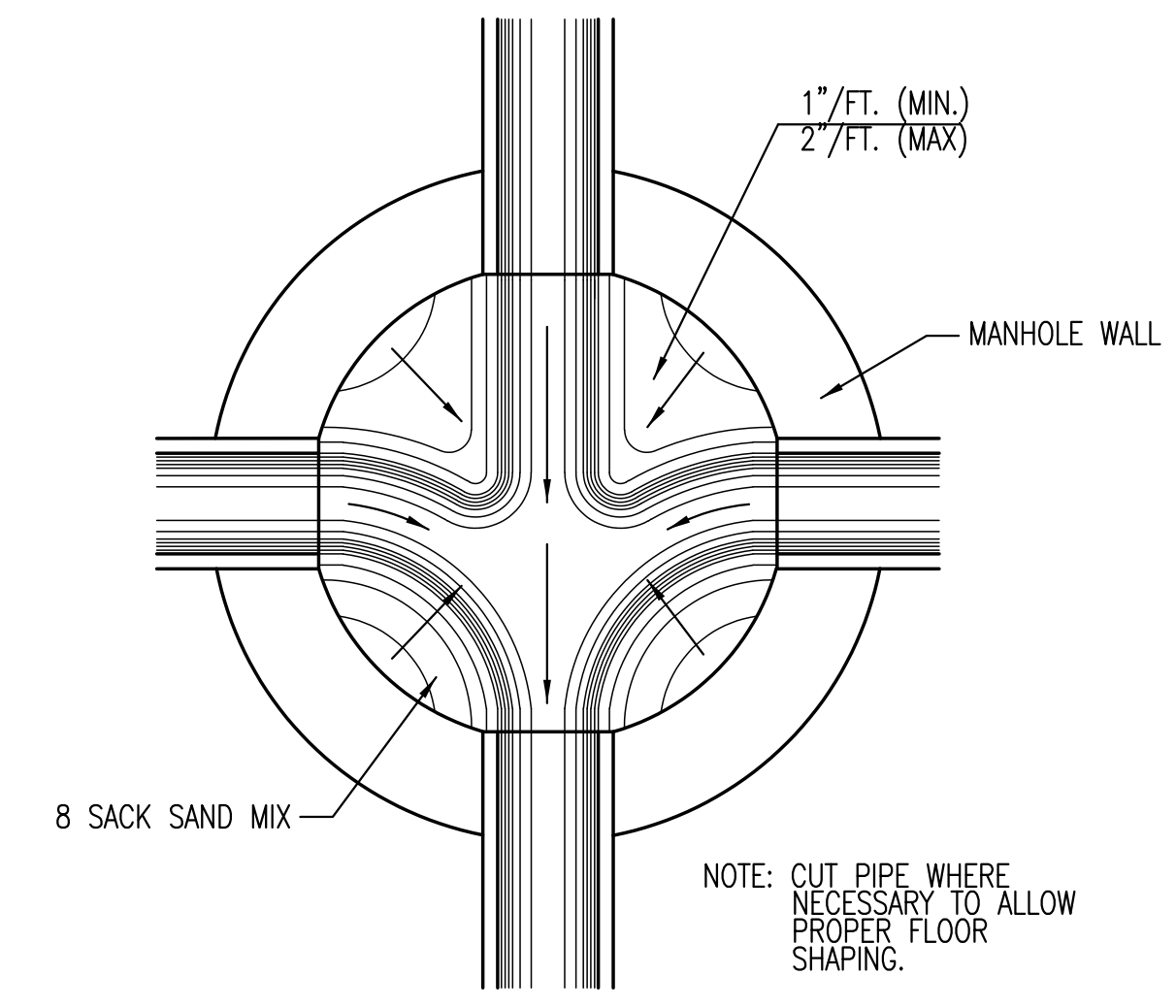
PRECAST STANDARD MANHOLE TYPE "A"



SECTION X-X (TYPICAL)



PRECAST SHALLOW MANHOLE TYPE "B"



TYPICAL MANHOLE FLOOR SHAPING

GENERAL NOTES

- 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.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- 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.
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
- CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
- MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.).
- MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
- CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
- THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
- MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-21, OR APPROVED EQUAL, SEE SW-303.
- FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
- FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.



<p>PRECAST CONCRETE MANHOLE (STORM SEWER)</p> <p>CITY ENGINEER  <b>GARY L. JANZEN, P.E.</b></p>		
PROJECT NUMBER 0163PPD	OCA NUMBER 607861	DATE 04/2013
<p>CITY ENGINEER'S OFFICE          CITY HALL - SEVENTH FLOOR          455 NORTH MAIN STREET          WICHITA, KANSAS 67202-1620          (316) 268-4501</p>		<p>DESIGN DRAWN</p> <p>SHEET  <b>4 of 14</b></p>



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DRAWN BY  
 BKS  
 DATE  
 05. JUNE. 2013  
 PROJECT  
 111601  
 SHEET NO.

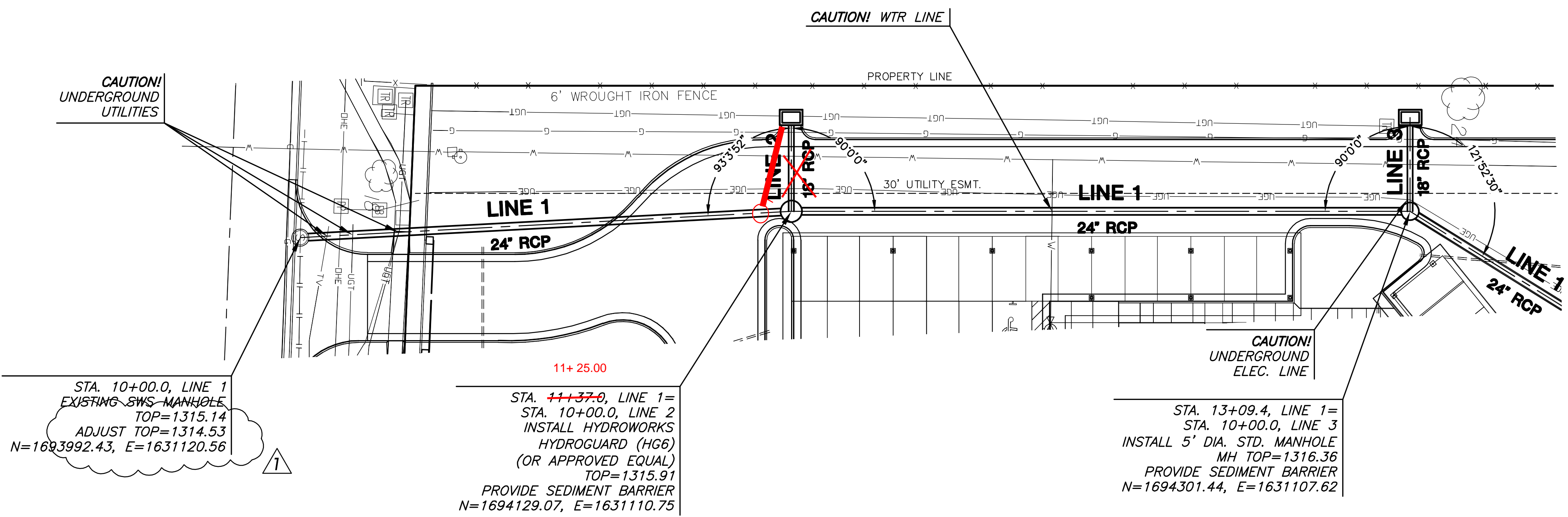
1414 UNDERWOOD AVE.  
 WAUWATOSA, WI 53133  
 414.431.2131 TRL  
 414.431.0231 FAX  
 WWW.AGARCH.COM

Architecture  
 Engineering  
 Planning

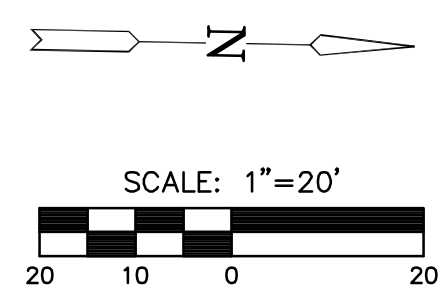
Wichita Presbyterian Manor  
 Relocation Project  
 Wichita  
 Kansas

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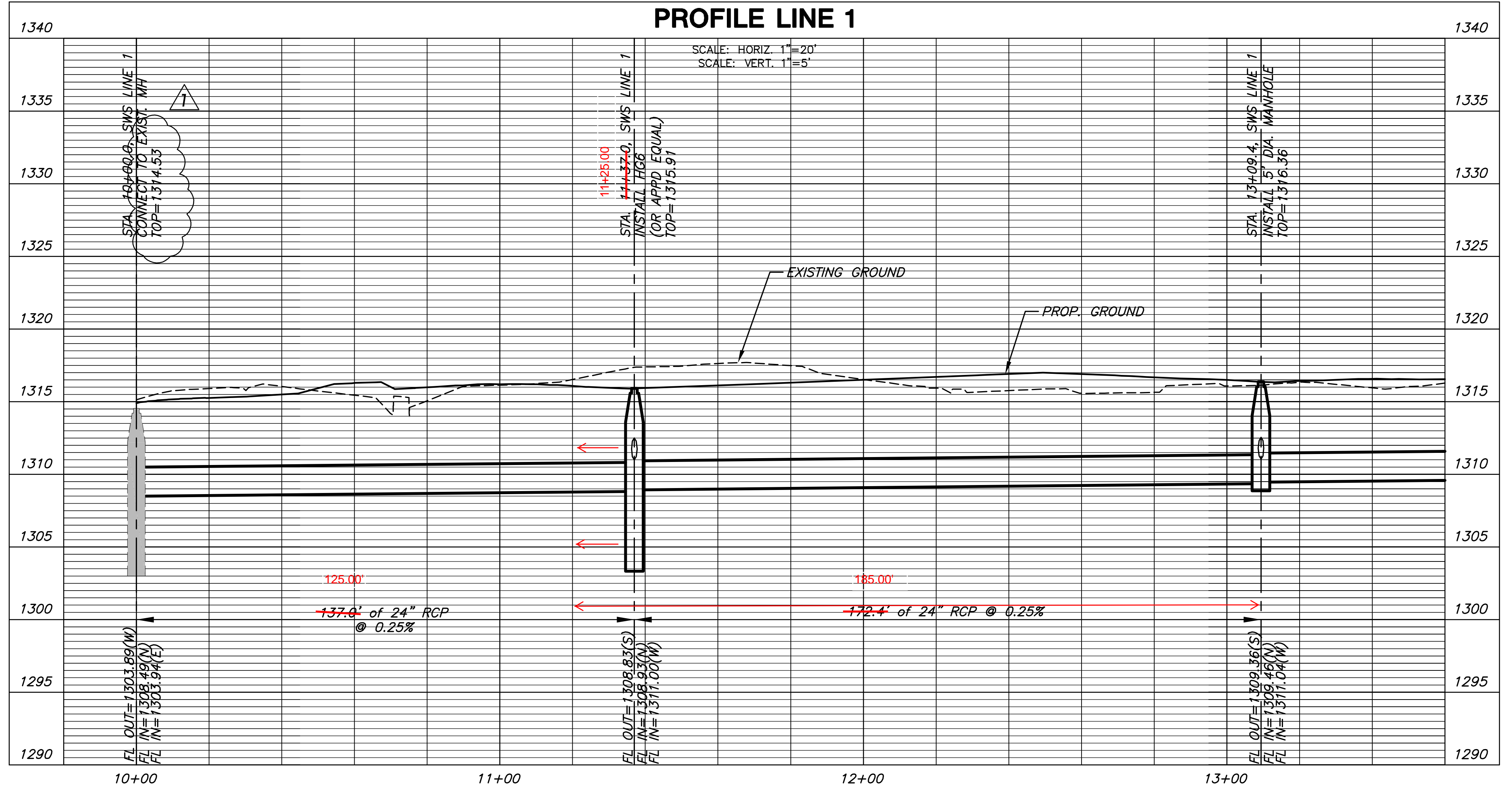
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**AS BUILTS**  
**KEMILLER**  
 ENGINEERING PA  
 117 E. Lewis,  
 Wichita, KS 67202 (316)264-0242



**PLAN LINE 1**  
**PROFILE LINE 1**



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 WICHITA, KS. 67206  
 316-684-9600

**STORM WATER SEWER PLAN FOR**  
**PRESBYTERIAN MANOR**  
**WICHITA, KANSAS**

**SWS**  
**LINE 1**  
 SHEET TITLE  
 0163PPD  
 PROJECT NUMBER

SPE | BKS | GJA  
 DESIGNED | DRAWN | CHECKED

ISSUED  
 April 2013  
 REVISED

SHEET NO.  
**5 of 14**

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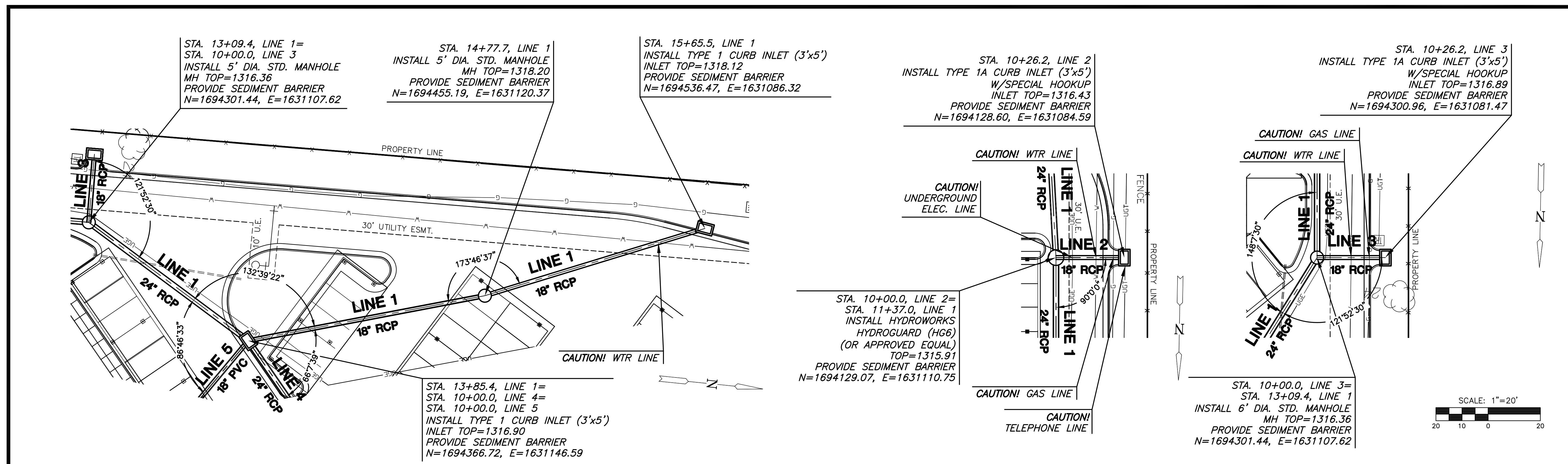
DRAWN BY  
 BKS  
 DATE  
 05. JUNE. 2013  
 PROJECT  
 111601  
 SHEET NO.

Wichita Presbyterian Manor  
 Relocating Project  
 Wichita  
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**AG Architecture**  
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 123456789  
 6/16/2014

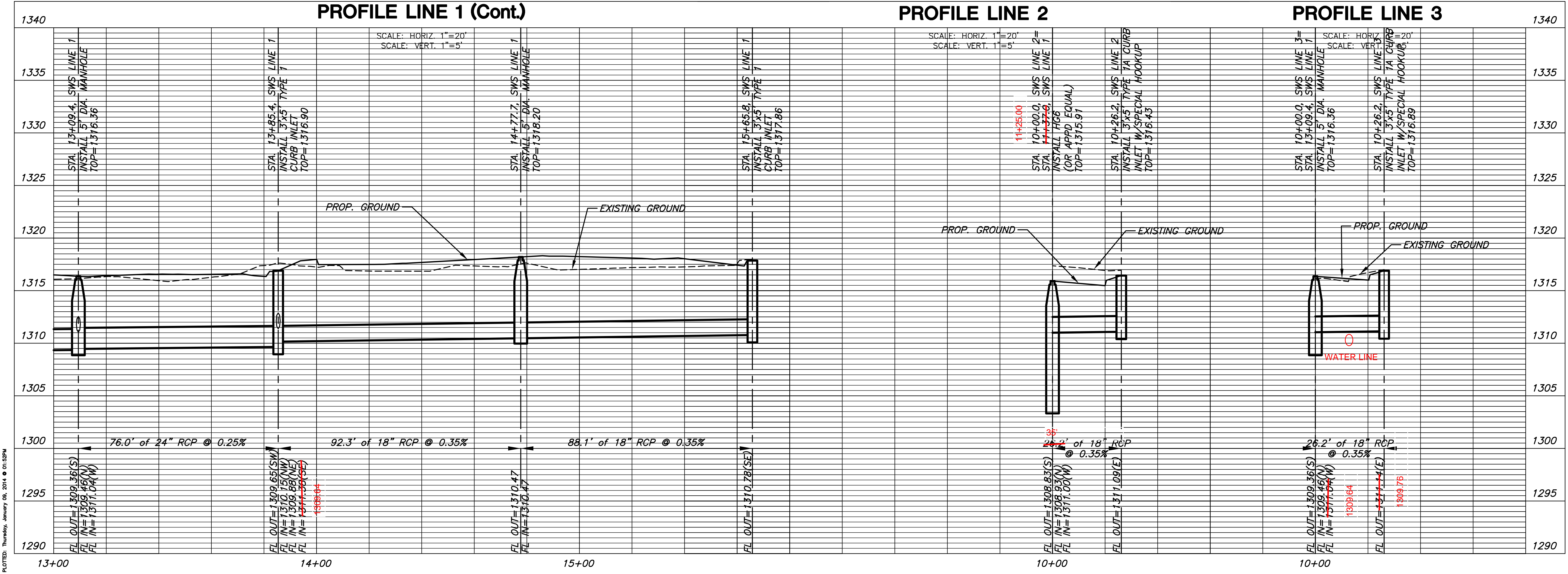
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 PROFILE LINE 1 (Cont.)

PLAN LINE 2  
 PROFILE LINE 2

PLAN LINE 3  
 PROFILE LINE 3



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STORM WATER SEWER PLAN FOR  
**PRESBYTERIAN MANOR**  
 WICHITA, KANSAS

**SWS**  
 LINES 1, 2, & 3  
 SHEET TITLE  
 0163PPD  
 PROJECT NUMBER

SPE / BKS / GJA  
 DESIGNED DRAWN CHECKED

ISSUED  
 April 2013

REVISED

SHEET NO.  
**6 of 14**

AS BUILTS

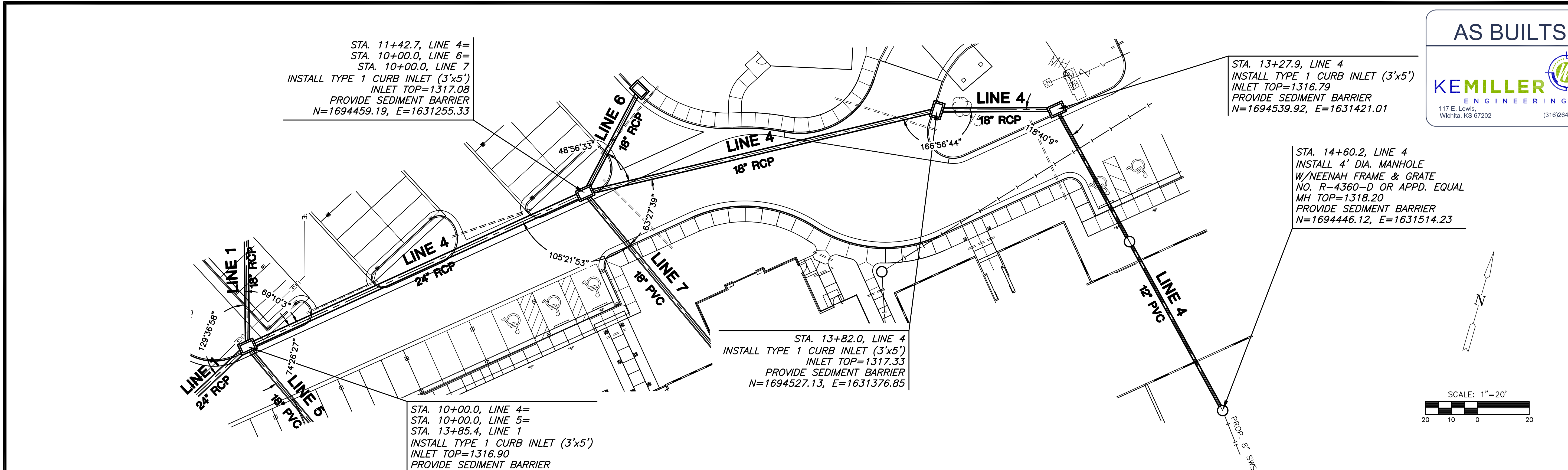
**KEMILLER**  
 ENGINEERING PA  
 117 E. Lewis,  
 Wichita, KS 67202  
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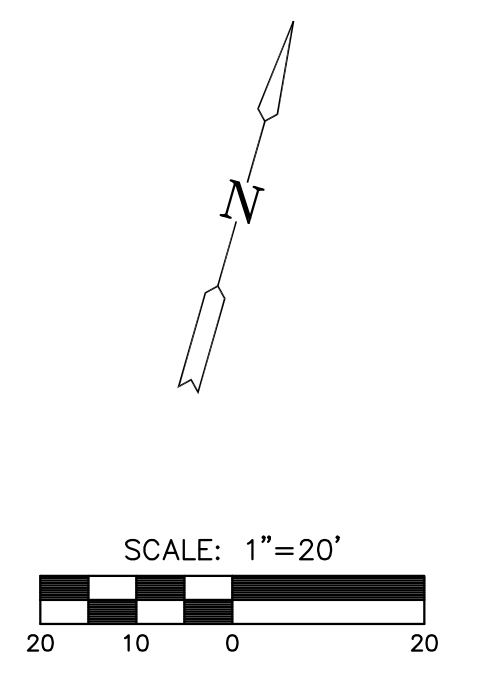
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 05. JUNE. 2013  
 PROJECT  
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 SHEET NO.

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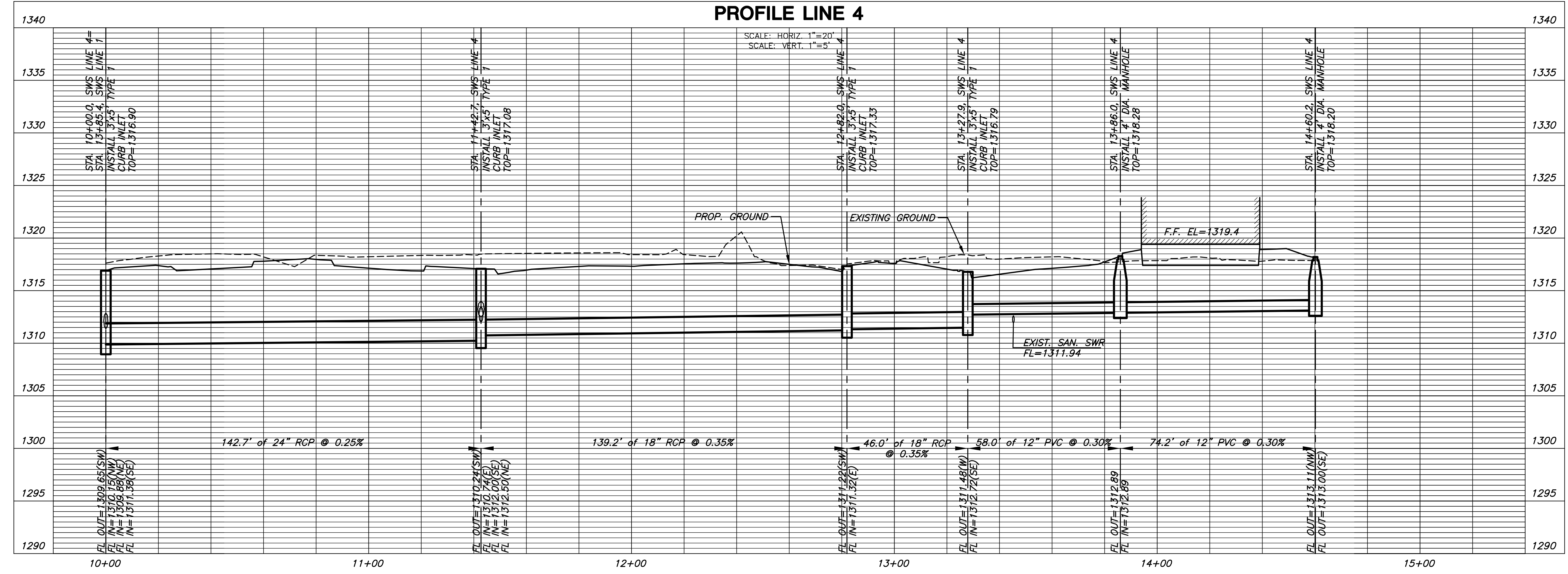


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**PLAN LINE 4**  
**PROFILE LINE 4**



**STORM WATER SEWER PLAN FOR**  
**PRESBYTERIAN MANOR**  
**WICHITA, KANSAS**

**SWS**  
**LINE 4**  
 SHEET TITLE  
 0163PPD  
 PROJECT NUMBER

SPE / BKS / GJA  
 DESIGNED DRAWN CHECKED

ISSUED  
 April 2013  
 REVISED

SHEET NO.  
**7 of 14**

Wichita Presbyterian Manor  
 Relocating Project  
 Wichita, Kansas

**ag2**  
 Architecture

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 414.431.0531 FAX  
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DRAWN BY  
 BKS  
 DATE  
 05. JUNE. 2013  
 PROJECT  
 111601  
 SHEET NO.

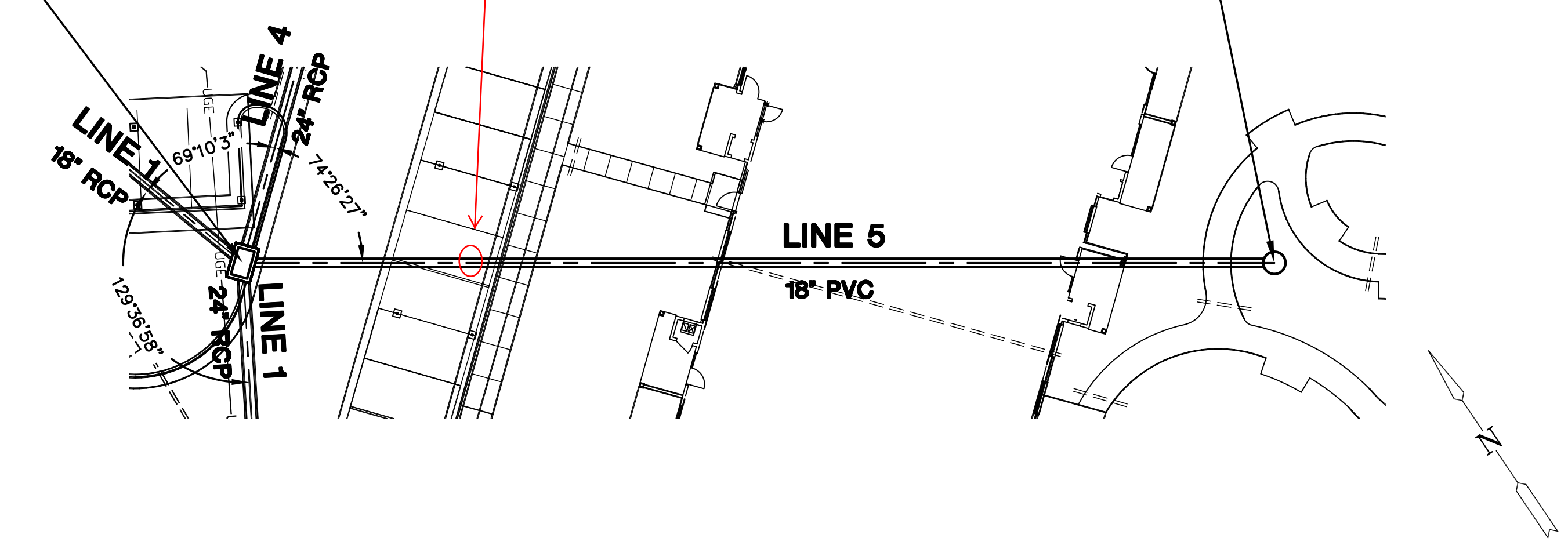
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PLOTTED: Thursday, January 06, 2014 @ 02:27PM

STA. 10+00.0, LINE 5=  
 STA. 10+00.0, LINE 4=  
 STA. 13+85.4, LINE 1  
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 INLET TOP=1316.90  
 PROVIDE SEDIMENT BARRIER  
 N=1694366.72, E=1631146.59

Added MH Sta. 10+72.38 Line 5  
 Top 1318.8

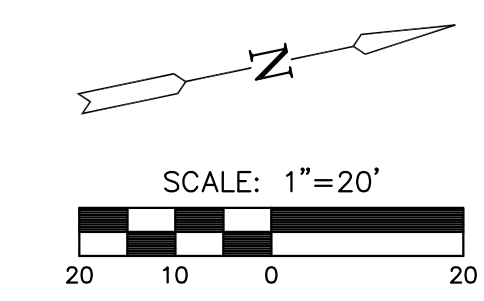
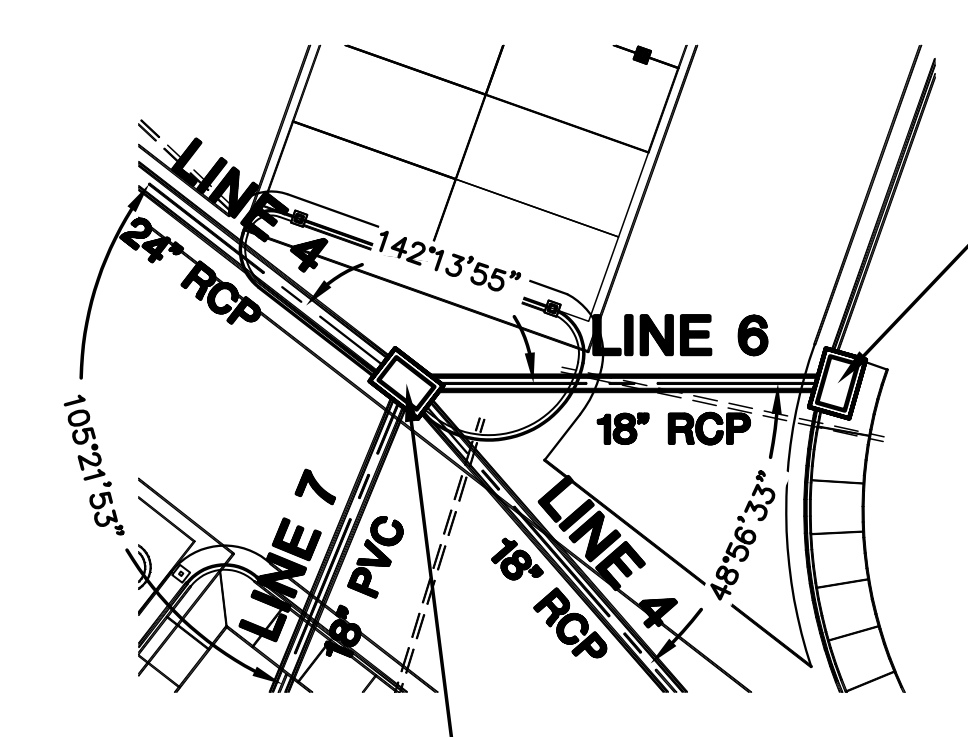
STA. 11+85.2, LINE 5  
 INSTALL 4' DIA. MANHOLE  
 W/NEENAH FRAME & GRATE  
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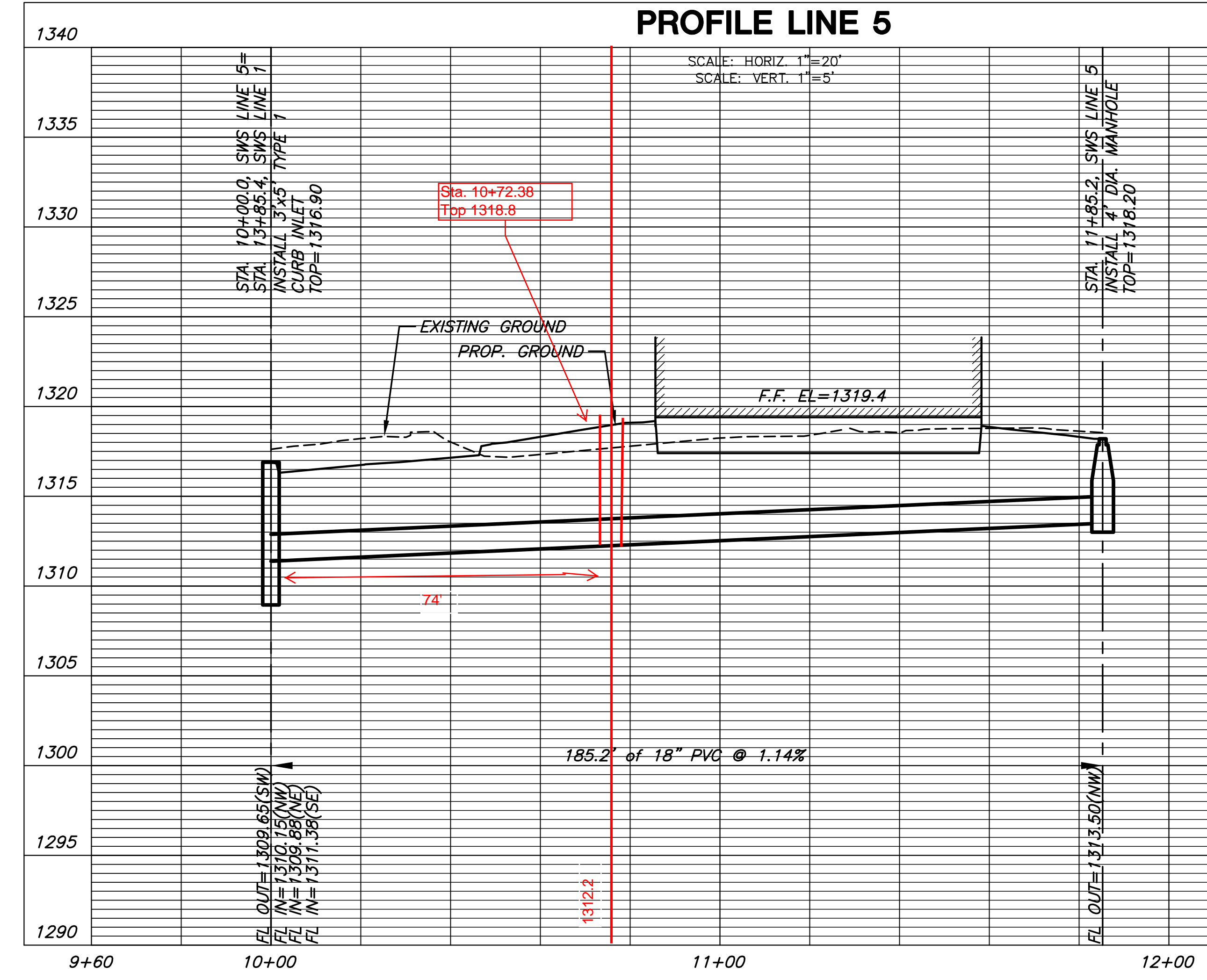
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 INLET TOP=1317.41  
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**AS BUILTS**  
  
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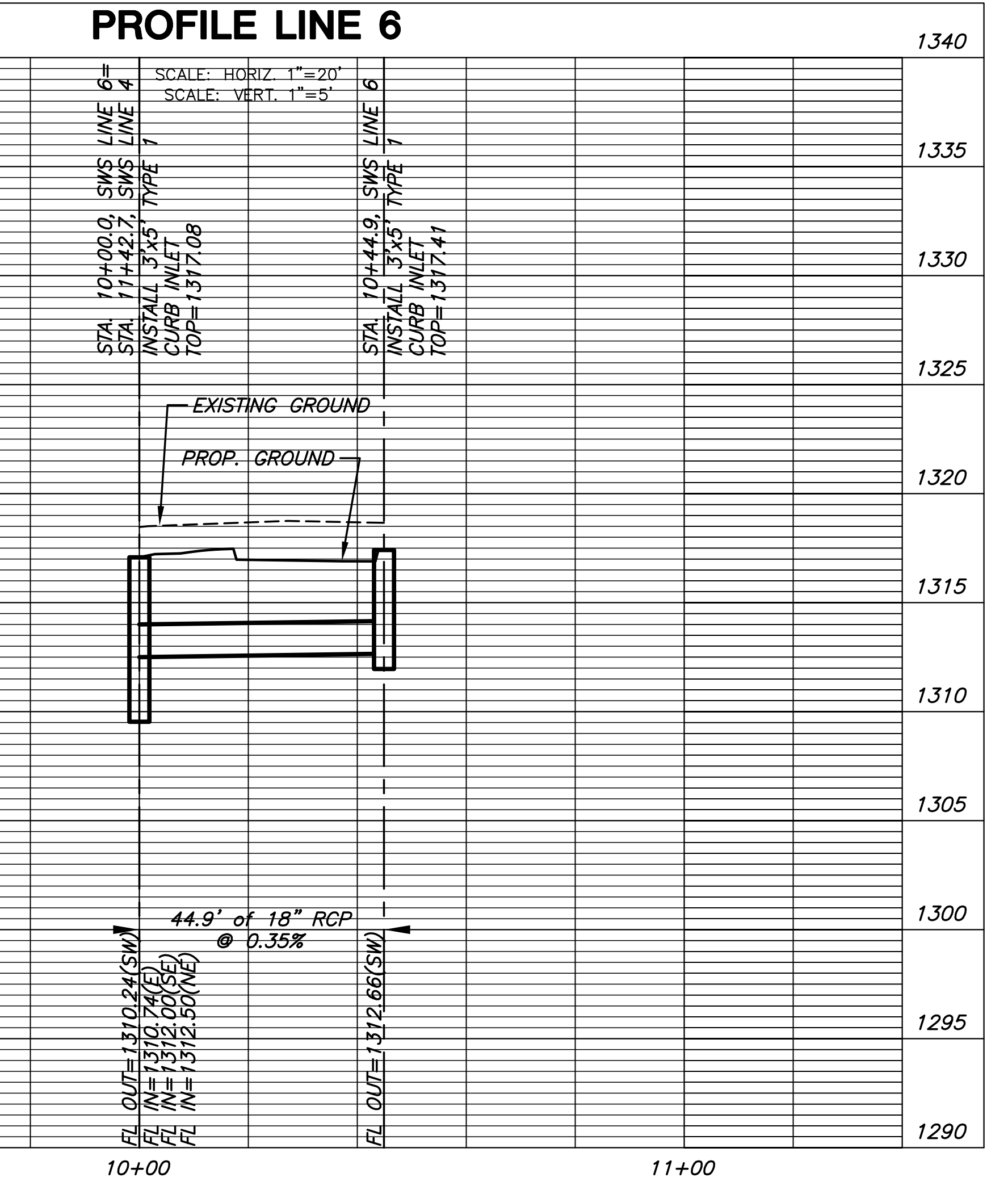
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 PROVIDE SEDIMENT BARRIER  
 N=1694459.19, E=1631255.33



**PLAN LINE 5**  
**PROFILE LINE 5**



**PLAN LINE 6**  
**PROFILE LINE 6**



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**STORM WATER SEWER PLAN FOR**  
**PRESBYTERIAN MANOR**  
**WICHITA, KANSAS**

**SWS**  
**LINES 5 & 6**  
 SHEET TITLE  
 0163PPD  
 PROJECT NUMBER

SPE / BKS / GJA  
 DESIGNED DRAWN CHECKED

ISSUED  
 April 2013  
 REVISED

SHEET NO.  
**8 of 14**

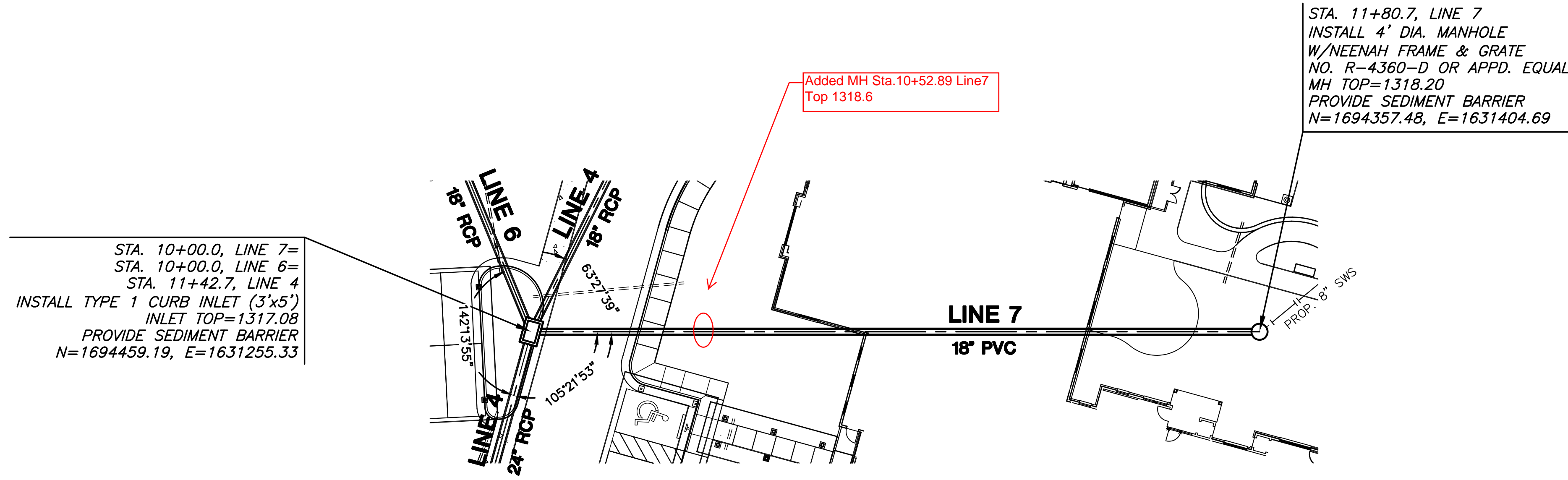
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DRAWN BY  
 BKS  
 DATE  
 05. JUNE. 2013  
 PROJECT  
 111601  
 SHEET NO.

**Wichita Presbyterian Manor**  
 Relocation Project  
 Wichita, Kansas  
  
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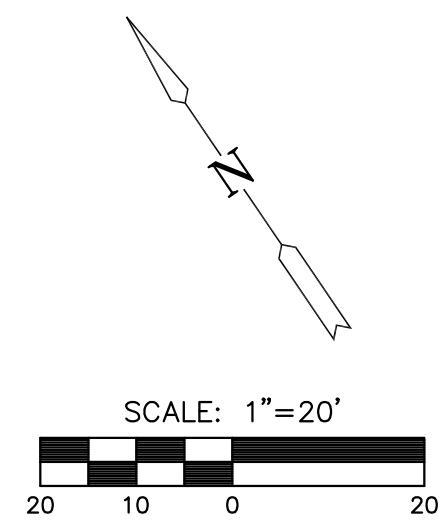
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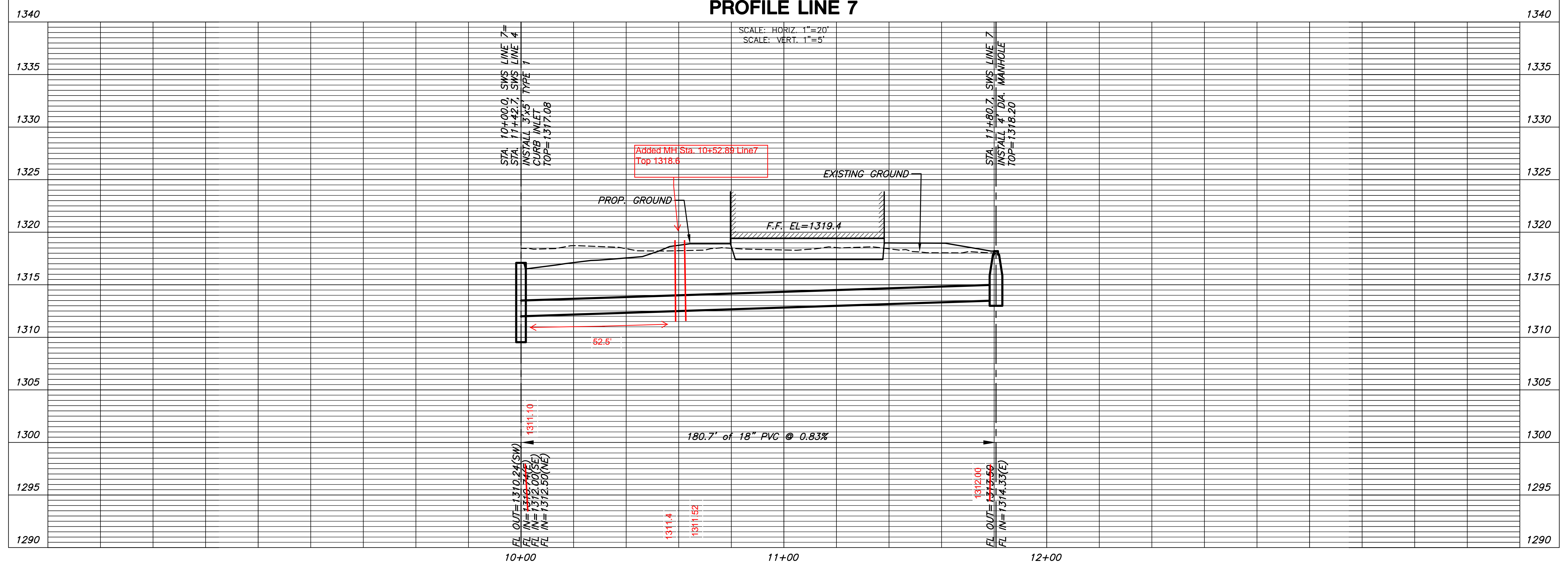
**AS BUILTS**

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 Wichita, KS 67202 (316)264-0242

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**PLAN LINE 7  
PROFILE LINE 7**



**STORM WATER SEWER PLAN FOR  
 PRESBYTERIAN MANOR  
 WICHITA, KANSAS**

<b>SWS LINE 7</b>	
SHEET TITLE	
0163PPD	
PROJECT NUMBER	
DESIGNED / DRAWN / CHECKED	
SPE / BKS / GJA	
ISSUED	
April 2013	
REVISED	
SHEET NO.	
9 of 14	

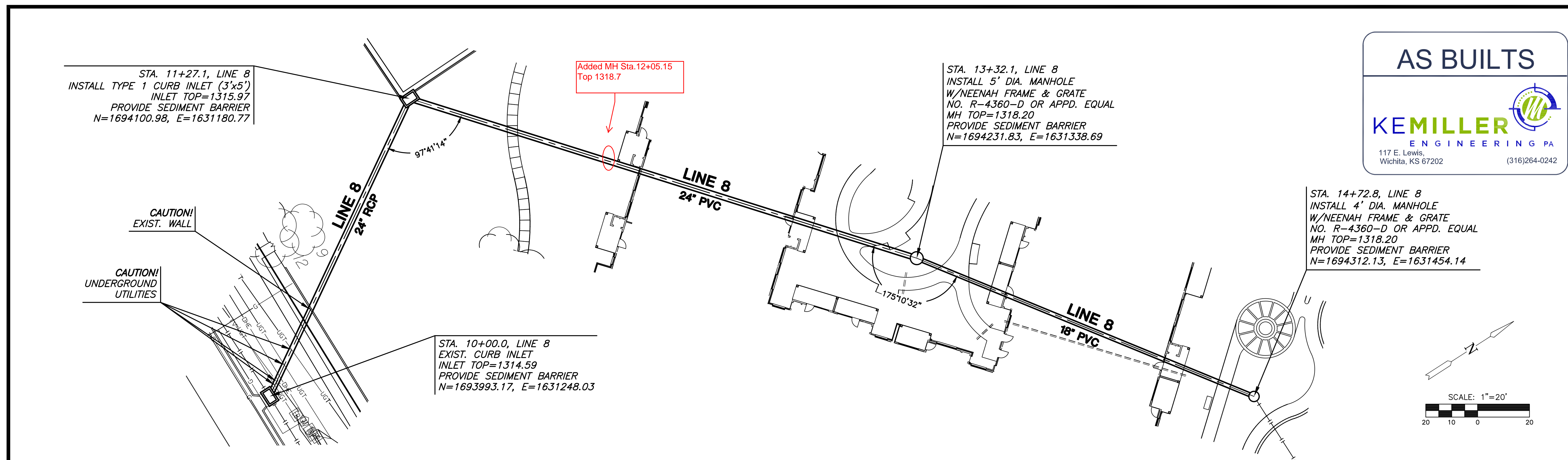
**MKEC**  
 ENGINEERING  
 CONSULTANTS, INC.  
 411 N. WEBB ROAD  
 WICHITA, KS. 67206  
 316-684-9600

DRAWN BY  
 BKS  
 DATE  
 05. JUNE. 2013  
 PROJECT  
 111601  
 SHEET NO.



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 414.431.0231 FAX  
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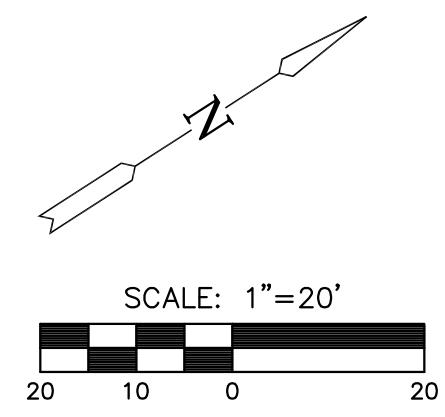
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**KEMILLER**  
ENGINEERING PA

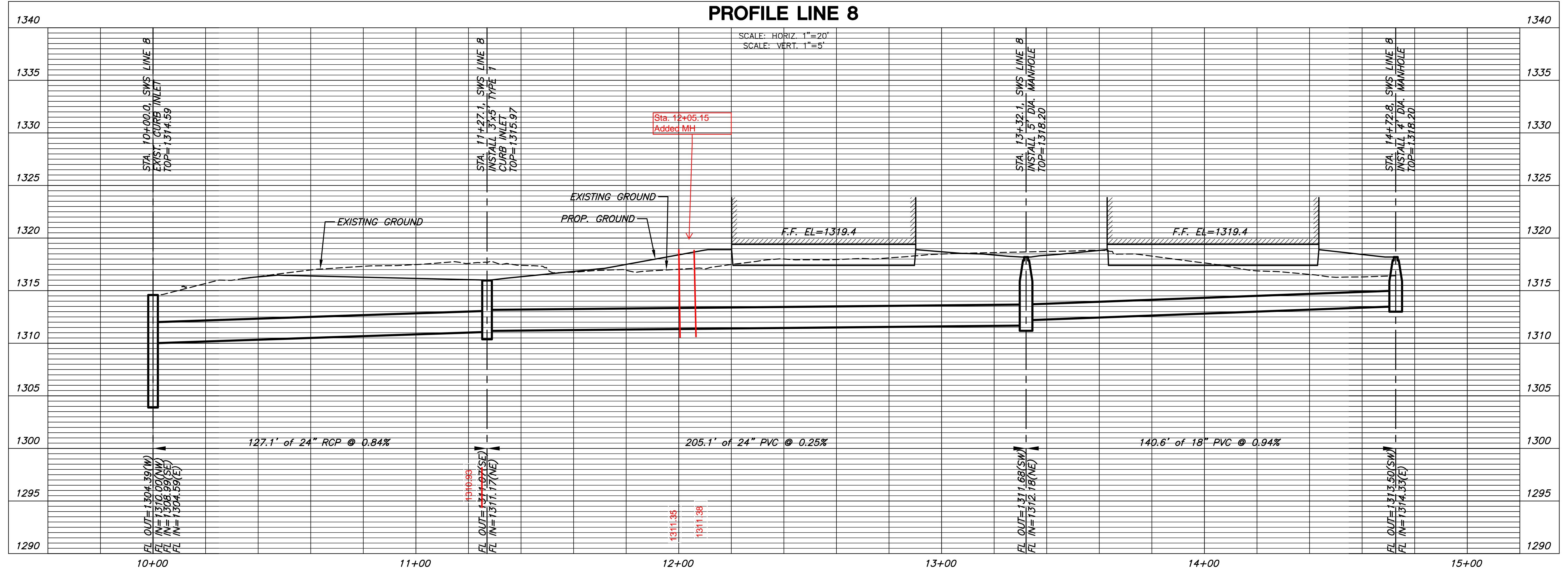
117 E. Lewis,  
Wichita, KS 67202 (316)264-0242

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WICHITA, KS. 67206  
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**PLAN LINE 8  
PROFILE LINE 8**



**STORM WATER SEWER PLAN FOR  
PRESBYTERIAN MANOR  
WICHITA, KANSAS**

**SWS  
LINE 8**

SHEET TITLE  
**0163PPD**  
PROJECT NUMBER

**SPE / BKS / GJA**  
DESIGNED DRAWN CHECKED

ISSUED  
**April 2013**  
REVISED

SHEET NO.  
**10 of 14**

**Wichita Presbyterian Manor**  
Relocation Project  
Wichita, Kansas

**Architecture**

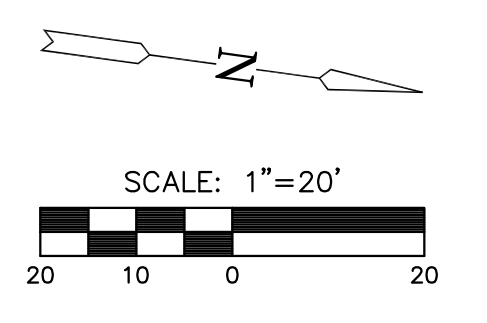
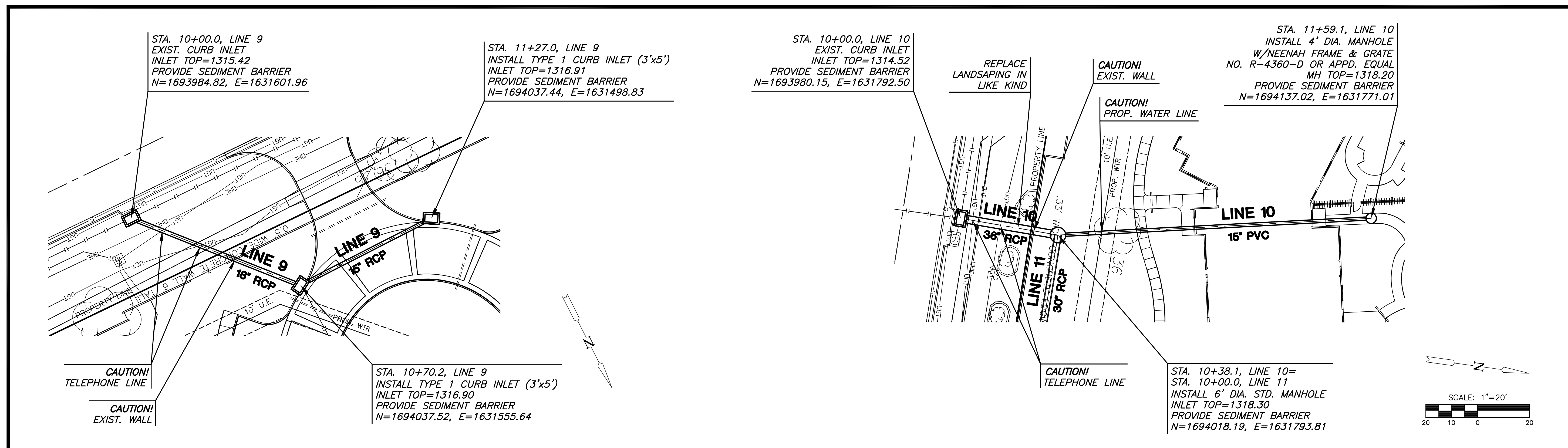
1414 UNDERWOOD AVE.  
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CONSULTANTS, INC.

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WICHITA, KS. 67206  
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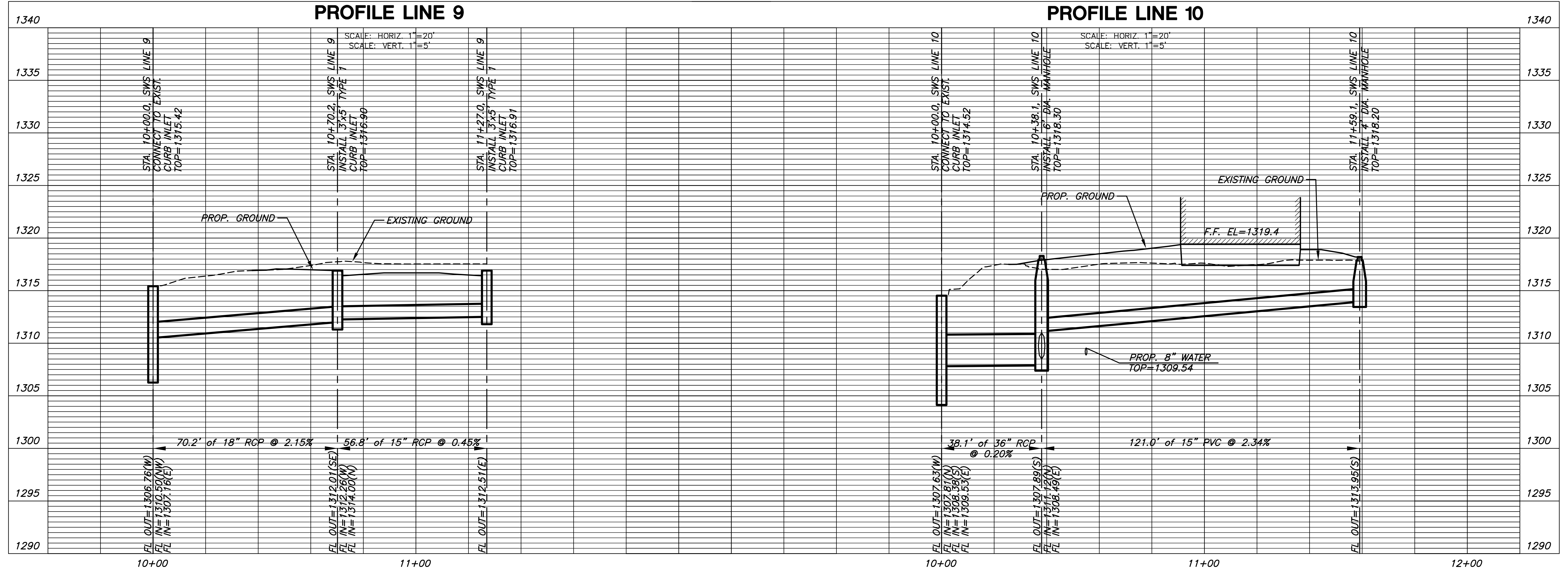
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SHEET NO.

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**PLAN LINE 9  
PROFILE LINE 9**

**PLAN LINE 10  
PROFILE LINE 10**



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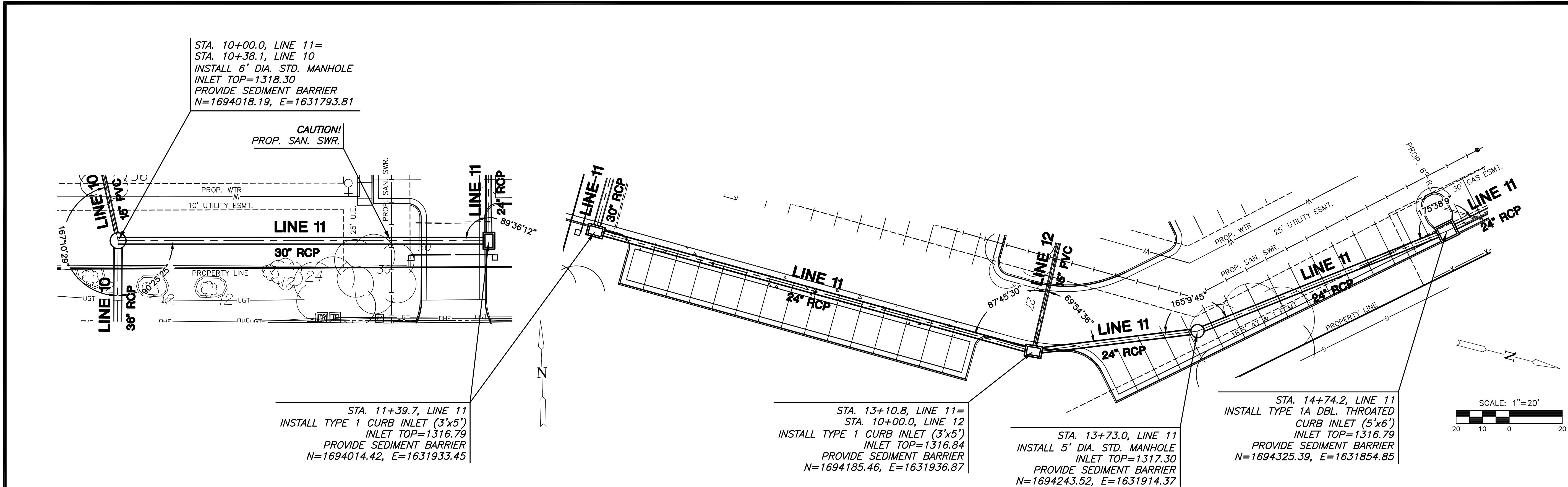
**STORM WATER SEWER PLAN FOR  
 PRESBYTERIAN MANOR  
 WICHITA, KANSAS**

<b>SWS LINES 9 &amp; 10</b>	
SHEET TITLE	
0163PPD	
PROJECT NUMBER	
DESIGNED / DRAWN / CHECKED	
SPE / BKS / GJA	
ISSUED	
April 2013	
REVISED	
SHEET NO.	
11 of 14	

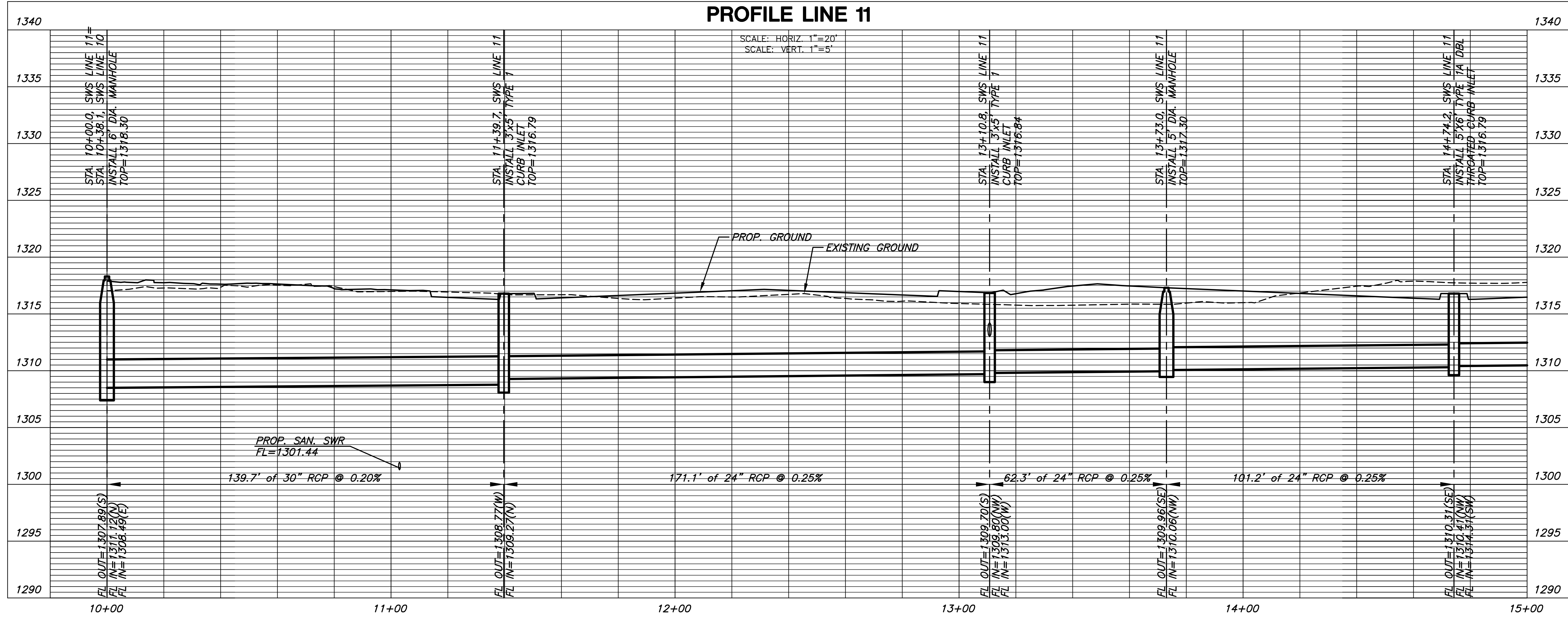
**MKEC**  
 ENGINEERING  
 CONSULTANTS, INC.  
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DRAWN BY  
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 DATE  
 05. JUNE. 2013  
 PROJECT  
 111601  
 SHEET NO.

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**PLAN LINE 11**  
**PROFILE LINE 11**



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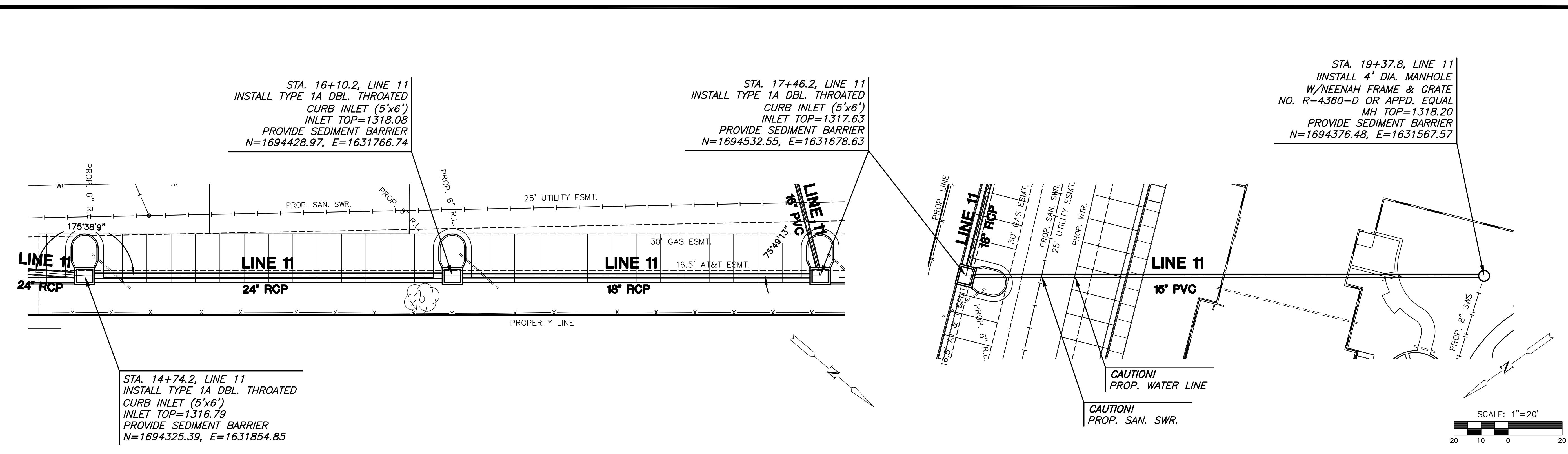
**STORM WATER SEWER PLAN FOR**  
**PRESBYTERIAN MANOR**  
**WICHITA, KANSAS**

**SWS LINE 11**  
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 PROJECT NUMBER  
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 ISSUED: April 2013  
 REVISED:  
 SHEET NO. **12 of 14**

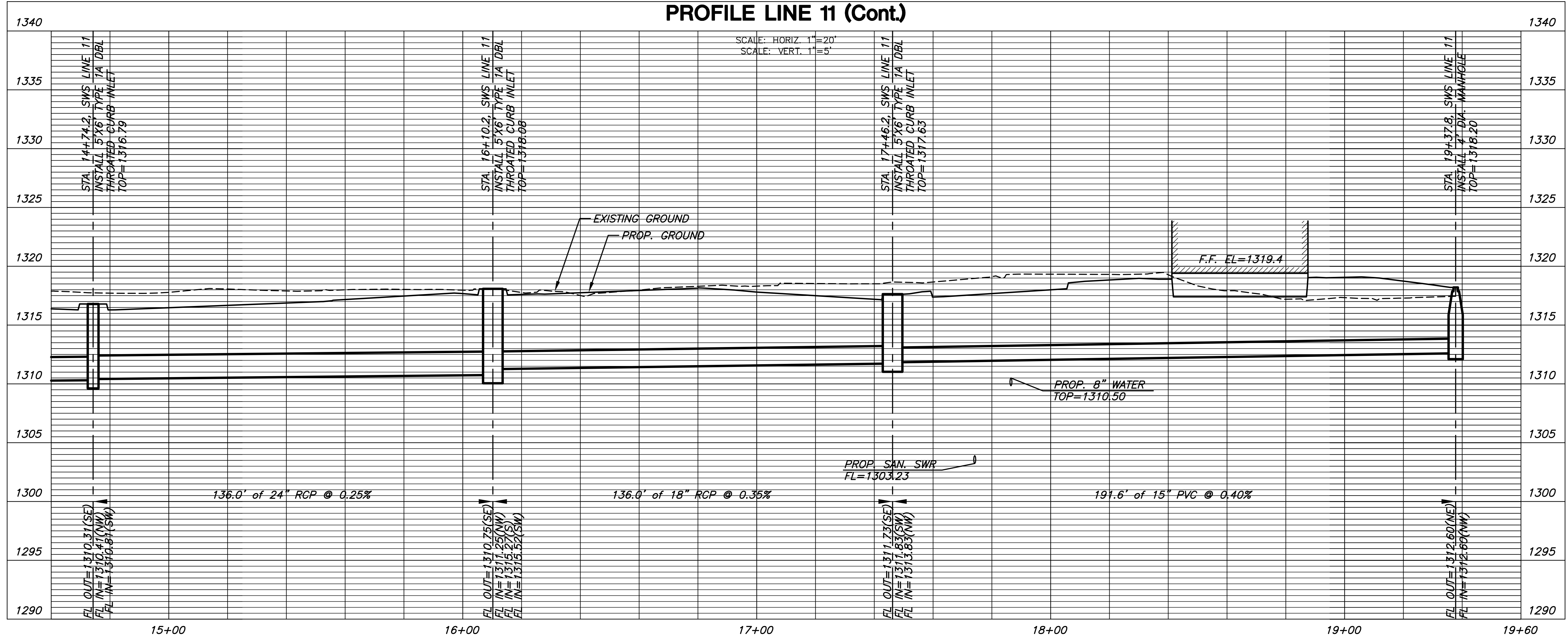
**MKEC**  
 ENGINEERING  
 CONSULTANTS, INC.  
 411 N. WEBB ROAD  
 WICHITA, KS. 67206  
 316-684-9600

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PLOTTED: Thursday, January 06, 2014 @ 03:20PM



**PLAN LINE 11 (Cont.)**  
**PROFILE LINE 11 (Cont.)**



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**STORM WATER SEWER PLAN FOR  
 PRESBYTERIAN MANOR  
 WICHITA, KANSAS**

<b>SWS LINE 11</b>	
SHEET TITLE	0163PPD
PROJECT NUMBER	
DESIGNED / DRAWN / CHECKED	
SPE / BKS / GJA	
ISSUED	April 2013
REVISED	
SHEET NO.	
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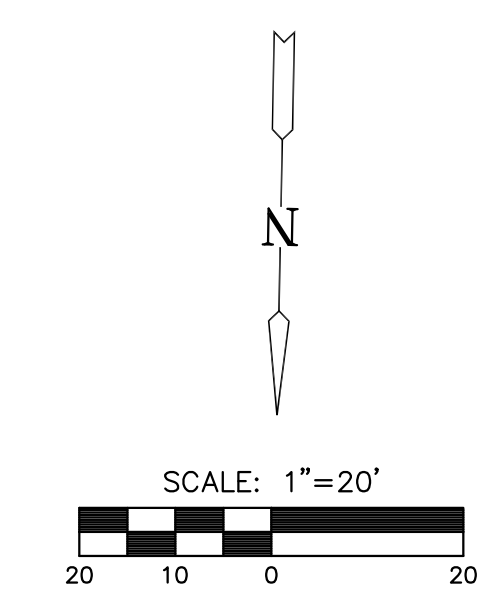
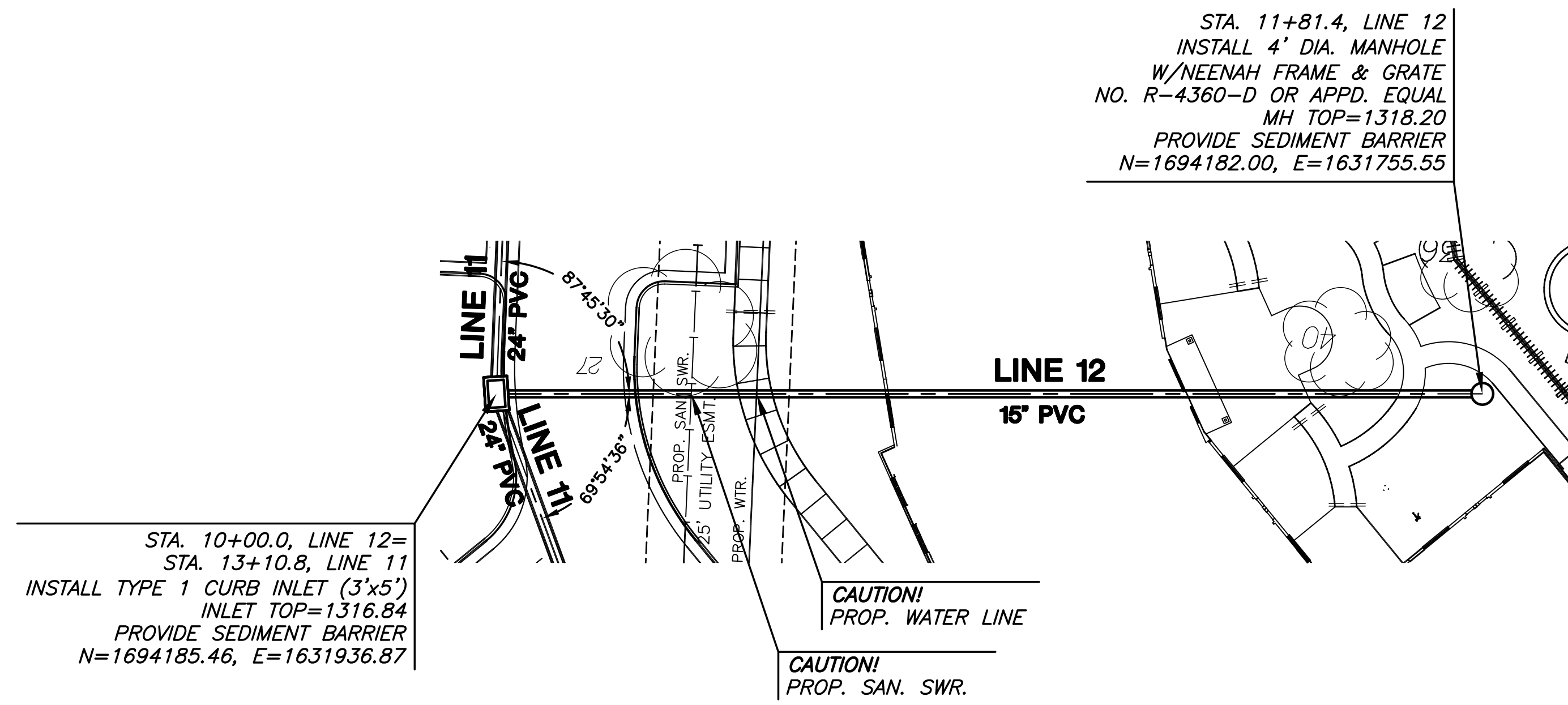
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 BKS  
 DATE  
 05. JUNE. 2013  
 PROJECT  
 111601  
 SHEET NO.

**Wichita Presbyterian Manor**  
 Relocating Project  
 Wichita, Kansas

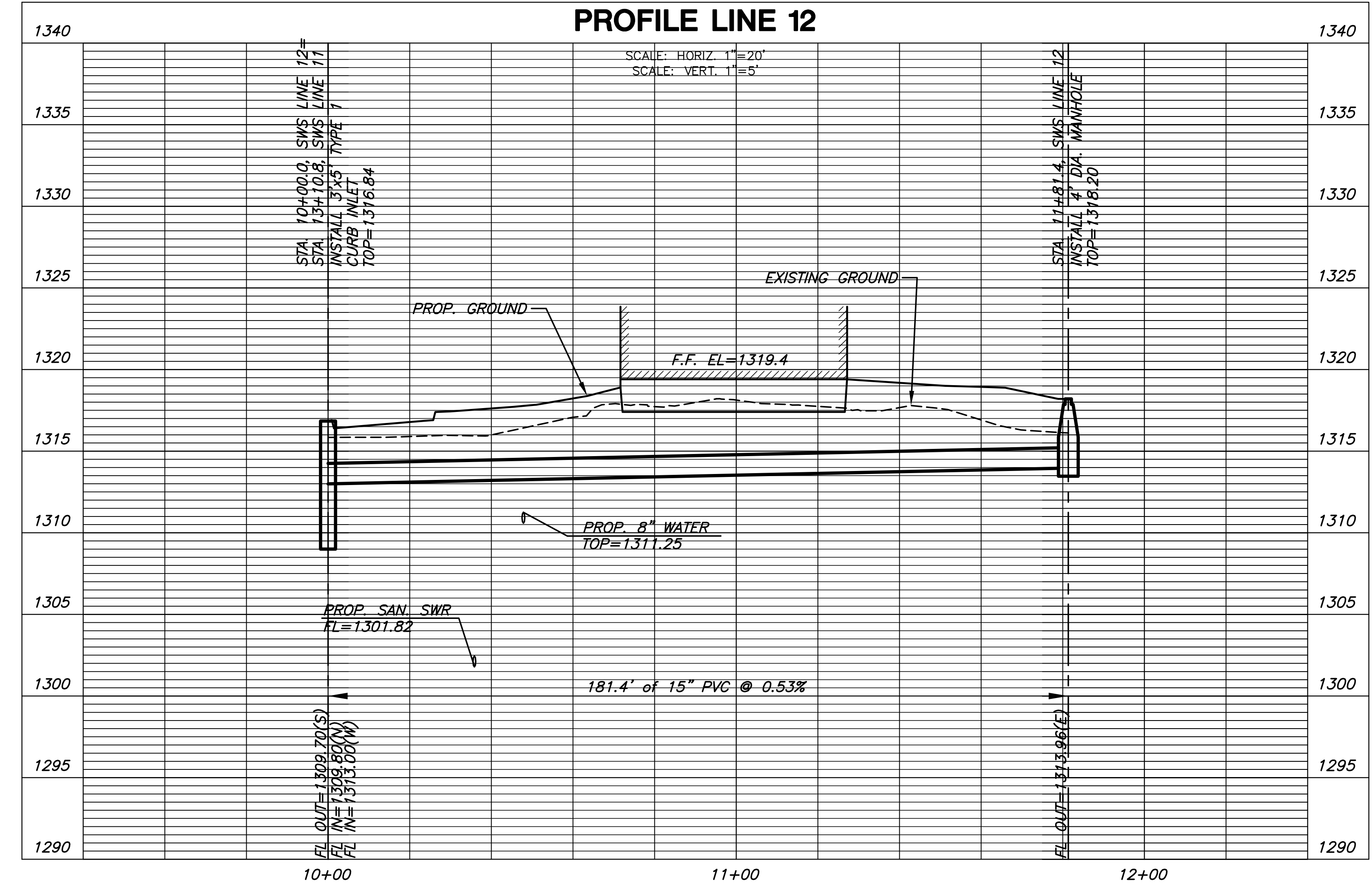
**Architecture**  
 1414 UNDERWOOD AVE.  
 WAUWATOSA, WI 53131  
 414.431.5131 TOLL FREE  
 414.431.0231 FAX  
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PLOT PARAMETERS: FILE: WELLS  
 BY: USER: BKS/MS  
 USING: DWG: BKS/MS/MS  
 PORTABLE: BKS/MS/MS

PLOTTED: Thursday, January 06, 2014 @ 03:28PM



**PLAN LINE 12**  
**PROFILE LINE 12**



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 CONSULTANTS, INC.  
 411 N. WEBB ROAD  
 WICHITA, KS. 67206  
 316-684-9600

**STORM WATER SEWER PLAN FOR**  
**PRESBYTERIAN MANOR**  
**WICHITA, KANSAS**

**SWS**  
**LINE 12**  
 SHEET TITLE  
 0163PPD  
 PROJECT NUMBER

SPE / BKS / GJA  
 DESIGNED DRAWN CHECKED

ISSUED  
 April 2013  
 REVISED

SHEET NO.  
**14 of 14**

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 BKS  
 DATE  
 05. JUNE. 2013  
 PROJECT  
 111601  
 SHEET NO.

Wichita Presbyterian Manor  
 Relocation Project  
 Wichita  
 Kansas

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