

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 (316)687-2470

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

Cox Communications (316)262-4270  
or (316)263-2061

Westar Energy/  
Kansas Gas & Electric Company (800)482-4950  
AT&T 1-555-1212  
City of Wichita Water Department (316)268-4908  
City of Wichita Sewer Department (316)268-4071  
Aquila Natural Gas (316)941-1608  
or (800)303-0357

2. Exist. utilities and their locations, as shown on the plans, represent the best information attainable 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 constructions.

3. The Contractor to verify utility locations prior to construction of this project.

4. Utility service and installation shall be coordinated with the respective utility owner. Contacts are:

Kansas Gas Service Jim Coe (316)832-3126  
Westar Energy Miles Capps (316)261-6251  
Aquila Networks Calvin Briggs (316)942-8811  
Wichita Water & Sewer Kerry Gibson (316)268-4555  
AT&T Jim Taben (316)268-2759  
Cox Communications Mark Anaya (316)262-4270

5. All lawn/turf areas disturbed by construction of proposed improvements shall be restored with the same grass as existing. Restoration of disturbed areas shall include, but not limited to, soil preparation, fertilizing, seeding, mulching (all seeded areas, outside the limits of erosion mat placement), and/or reseeding, and installation of erosion control mat. All seeding work shall be in accordance with the City of Wichita Standard Specifications and the City of Wichita Administrative Regulations No. AR 6.5 which governs cleanup and respiration or replacement following construction, all cost for the soil preparation, seeding and mulching (all seeded areas, outside the limits of erosion mat placement) shall be paid for through the lump sum bid item for "Seeding." All seeded areas within eight feet of the back of new curb shall be covered with an approved erosion mat, which shall be paid for by the measured quantity bid item "Back of Curb Protection (8' wide)."

6. Traffic affected by the construction of this project shall be handled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices.

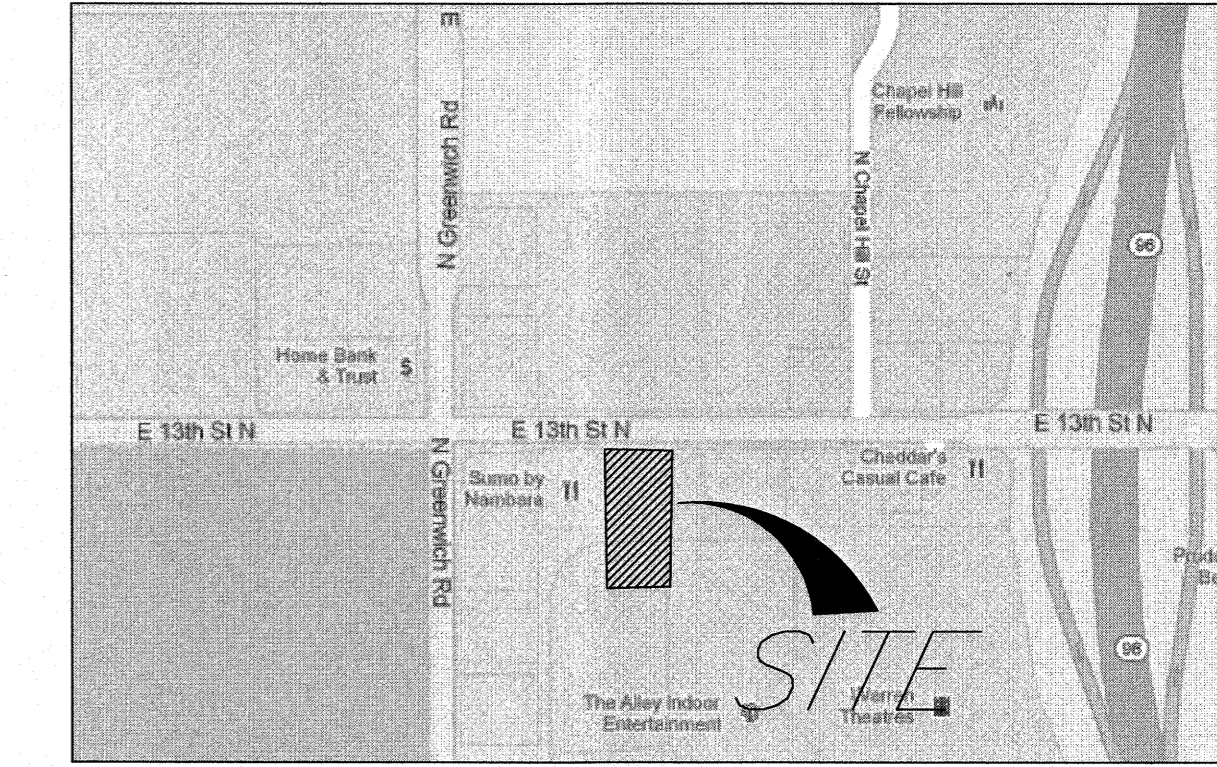
7. It is the contractor's responsibility to visit this site to better understand the extent of site clearing and restoration to be performed. Site Clearing and Restoration shall include all costs for removal of items which a pay item is not provided.

8. The contractor shall be responsible for preserving property irons. The contractor will be required to re-establish any property irons which are damaged or destroyed by the construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

9. Properties within the project limits may have underground sprinkler systems in public right-of-way which conflict with new construction. Contractor will be required to remove such improvements should they not be removed by their owner at the time of construction of the project. The contractor will be required to salvage all sprinkler heads and/or valves and give such material to owner. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered as subsidiary to the contract pay items for work.

10. Cuts made in paved surfaces on public property will be repaired by the City's Contractor and charged against the contractor. Unit Repair prices are available from the city at 268-4418. A surcharge may be applicable. Call 268-4418 for details. Repair costs to be paid prior to release of utility service if utilities are effected.

# DRAINAGE TO SERVE Applebee's at Plazzio 13th St N, East of Greenwich 0181 PPD (607861) CITY OF WICHITA, KANSAS Gary Janzen, P.E., City Engineer



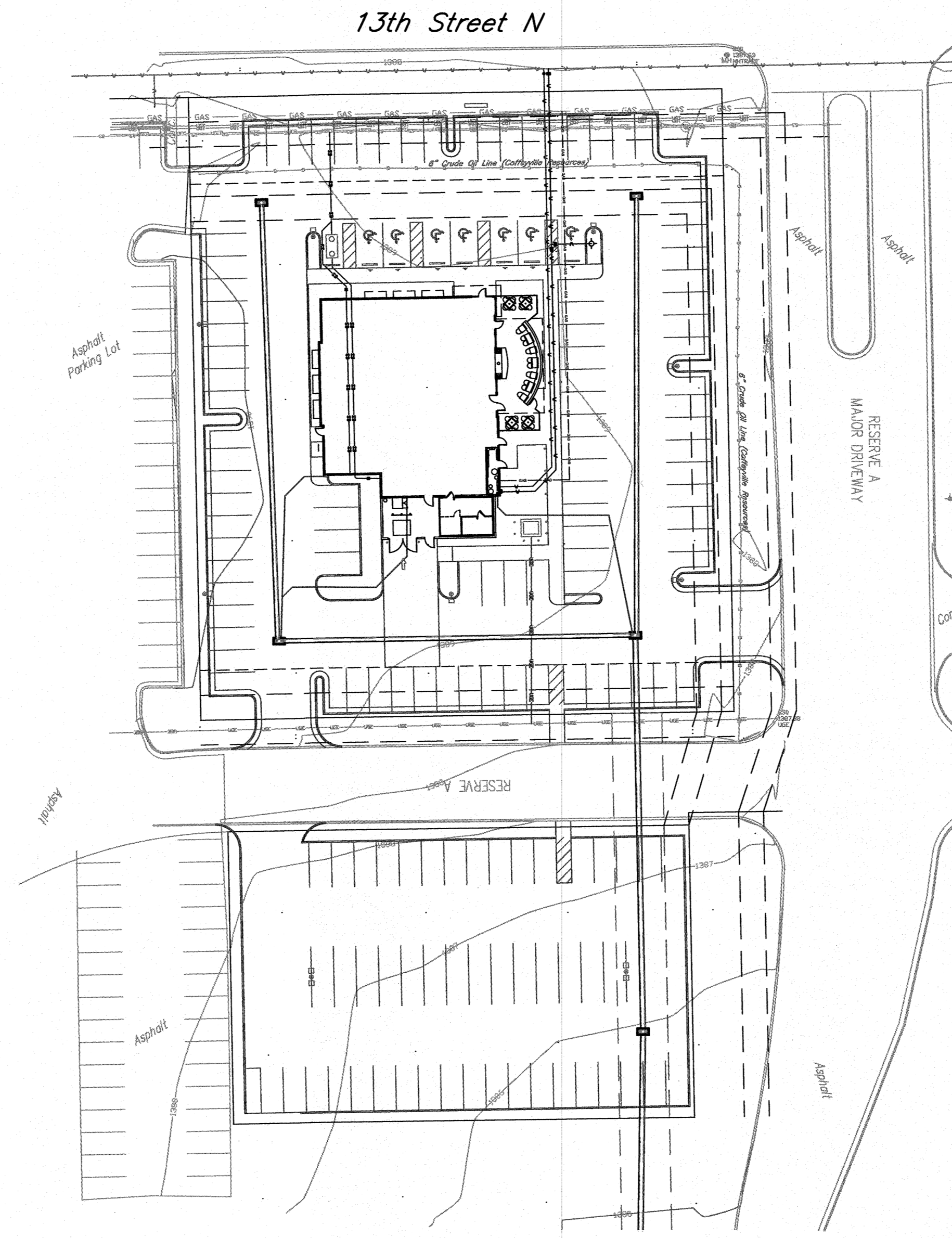
LOCATION MAP  
(For Visual Use Only)

Index of Sheets:

C4.0	Cover Sheet
C5.0	Drainage Plan
C6.0	ERU Plan
C7.0	Grading Plan
C8.0	SWS Control Sheet
C8.1	Line 1 (0+00-4+00)
C8.2	Line 1 (4+00-4+50.00)
C8.3	Line 2
C8.4	Drop Inlet Detail
C8.5	Rip-Rap Details
C9.0	Erosion Plan
C9.1	Erosion Detail
C9.2	Erosion Detail
C9.3	Erosion Details
C10.0	Copy of Plat

Stormwater Design Certification Statement

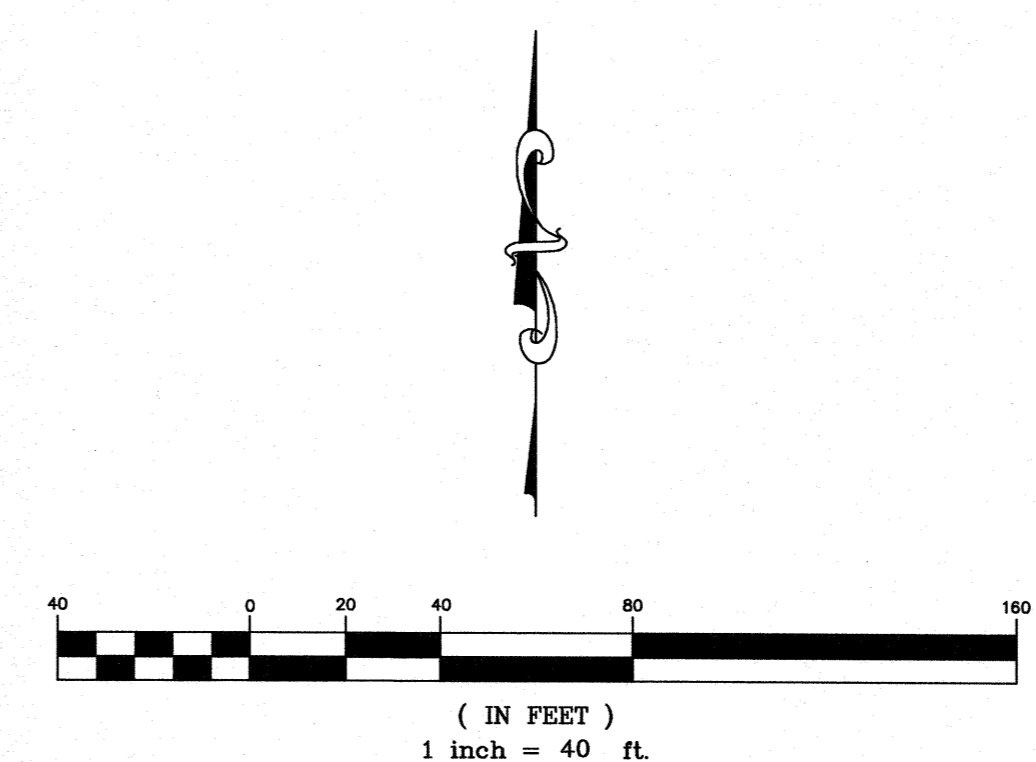
I, **Gyanendra Pokhrel** of **K.C. Miller Engineering**, a Professional Engineer registered in the State of Kansas, hereby certify that this Stormwater Permit Application, the associated Construction Plan and all associated hydrologic and hydraulic analyses for was prepared by me (or under my direct supervision).  
I further certify that the plans and analyses were prepared in accordance with the provisions of the stormwater management regulation (Regulation) of the appropriate governing locality (i.e., the City of Wichita Stormwater Management Ordinance 16.32 or the Sedgewick County Stormwater Management Resolution 198-10), and the policies and guidelines presented in the Wichita/Sedgewick County Stormwater Manual (Manual).  
I further certify that all stormwater management components of the Development, including stormwater management facilities, water quality volume reduction areas, stormwater system components and erosion prevention and sediment control best management practices are designed to comply with the provisions of the Regulation and the Manual.  
I understand that the City of Wichita, Kansas and/or Sedgewick County, Kansas does not, and will not, assume liability for drainage facilities designed by others unless such facilities are formally accepted for public ownership by the City or County.



Benchmark:

Southeast corner of Sumo parking lot on the top of curb.  
Elevation=1389.94 NAVD 88

City of Wichita Disc 0.5 miles east of webb road on 13th Street North. South right-of-way 45.92 ft Southeast of 1/4 section corner iron  
Elevation=1380.18 NAVD 88



APPROVED AS NOTED

Storm Water Utility Office: *[Signature]* 9/18/13

City Engineer Office: *[Signature]* 9/18/13

NOTE TO CONTRACTORS

Installation, 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).

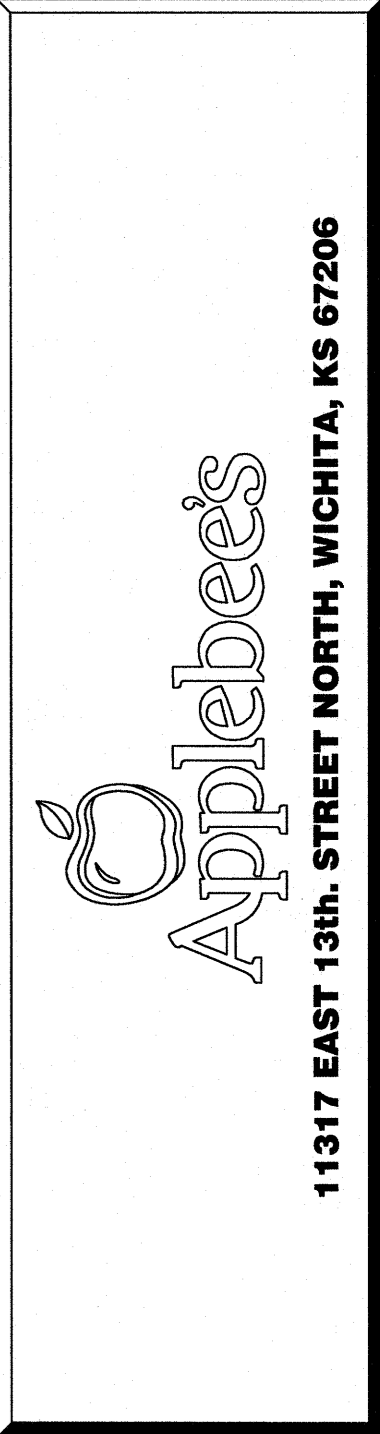
AS BUILTS

Contractor: Ewertz Excavation 01/20/2014

Project Inspector: Tom Jones

**KEMILLER**  
ENGINEERING P.A.  
117 E. Lewis, Wichita, KS 67202 (316)264-0242

DATE	DESCRIPTION	REVISION #	REVISION PER	PLAN	REVIEWS
07/22/13		1			
08/15/13		2			



**RODGER A. BROOKS / ARCHITECT**  
180 RAINBOW DR. #8078 LIVINGSTON, TX 77399-1089  
316.734.5526 fax:889.846.0243 brooksarch@aol.com

PROJECT NUMBER  
**08815**  
WICHITA, KS

ISSUE DATE  
**06.03.13**

0181 PPD  
COVER

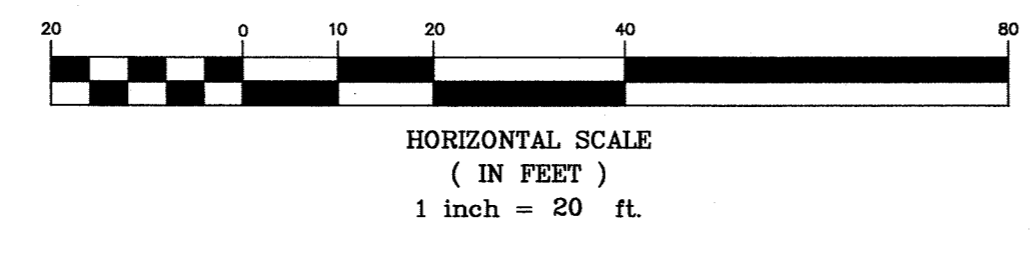
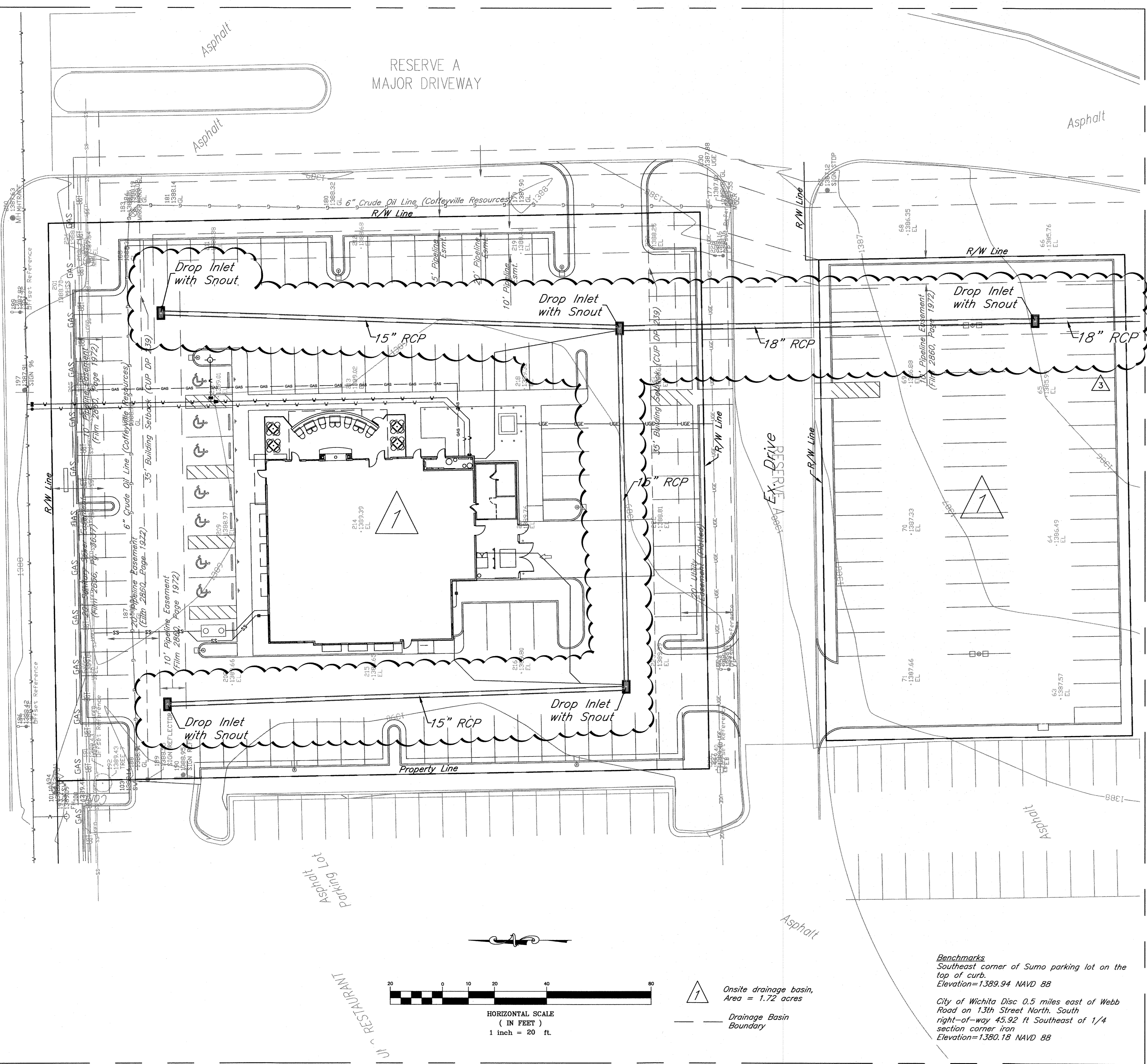
**C4.0**

June 2013



KEM NO. 13068  
DESIGN GP  
DRAWN GP

13th Street N



1 Onsite drainage basin, Area = 1.72 acres  
 --- Drainage Basin Boundary

**Benchmarks**  
 Southeast corner of Sumo parking lot on the top of curb.  
 Elevation=1389.94 NAVD 88  
 City of Wichita Disc 0.5 miles east of Webb Road on 13th Street North. South right-of-way 45.92 ft Southeast of 1/4 section corner iron  
 Elevation=1380.18 NAVD 88

**Project Narrative:**  
 The site is located on south side of 13th St. N, about 500 ft East of Greenwich Road. The total area is about 1.72 acres which include lot 7 and part of lot 1 of block 1 of Gateway Center 2nd Addition. The entire site is covered by grass. There are storm sewers on south of property which were designed and constructed to receive the runoff from the proposed site. The existing drainage pattern indicates that the entire site drains towards the south to the end 24" RCP with end section. The scope of the project is to construct a new building and parking for Applebee's.

**Water Quality and TSS Removal Calculation:**

Water Quality Volume (WQv) Calculation			
Calculation for water quality volume (WQv=P*RA/12)		Soil Group 'D'	
85th percentile storm event (1.2 inches), P =	1.20 inches	Calculation of Rv	
Total area, A =	1.72 acres	Coeff.	Area
Rainfall Coeff, Rv =	0.861 cf	Coeff for undisturbed area, Rv <sub>U</sub> =	0.04 0.00
Required Vol for Water Quality =	0.148 ac-ft	Coeff for turf cover, disturbed, Rv <sub>T</sub> =	0.22 0.21
Corresponding Water Quality Peak Flow =	2.05 cfs	Coeff for impervious area, Rv <sub>I</sub> =	0.95 1.51
		Weighted, Rv =	0.861

The WQV and water quality are treated in proposed inlets by the use of snouts (city approved method) by BMP inc.

Water Quality Peak Flow Calculation	
Aera=	1.72 acres
WQv=	1.033 inches
Pond and Swamp Factor, Fp=	1.000
Calculated CN=	98.5
S=	0.154 inches
la=	0.031 inches
la/P=	0.026
qu	740.0 cfs/sq.mi/ri
<b>Water quality peak flow</b>	<b>2.05 cfs</b>

**Runoff Calculations (2-, 5-, 10-, 25-, and 100-yr)**

**EXISTING CONDITION:**  
 Total Area A = 1.72 acres, Surface Type = 100%  
 Grass Soil Group =D (as per COW HSG map)

EXISTING SITE									
DRAINAGE AREA	ACRES	Tc min	CN	Q2	Q5	Q10	Q25	Q100	REMARKS
On-site (1)	1.72	15.7	84	4.22	6.10	7.44	9.17	12.53	Draining to Existing Inlets

**DEVELOPED CONDITION:**  
 Total Area, A = 1.72 acres, Total Impervious Area = 1.51 acres, Grass Area= 0.21 acres  
 Hydrological Soil Group =D

DEVELOPED SITE									
DRAINAGE AREA	ACRES	Tc min	CN	Q2	Q5	Q10	Q25	Q100	REMARKS
Total On-site	1.72	15	97	6.35	8.24	9.56	11.25	14.43	Draining to Existing SWS

**Notes:**

- Existing and developed flows are calculated using the SCS Hydrograph method. "CN" & "I" values are established from "City of Wichita Stormwater Design Manual."
- The existing and developed peak flows are routed to the existing 24" SWS. The flood detention is not considered for this site as the site is common part of previously developed area.
- Snouts are used for water quality treatment. Extended detention for channel protection is not considered as the site is less than 5 acres. The site is not in designated 100-yr floodplain (FIRM 20173C0379E, Revised, May 2, 2012)
- The positive overflows from the entire site are maintained to the street, drives and to the existing 24" RCP, south of the proposed site.

DATE	DESCRIPTION
07/22/13	REVISION #1
08/15/13	REVISION #2 PLAN REVIEWS
08/27/13	REVISION #3 PLAN REVIEWS

**Applebee's**

11317 EAST 13th STREET NORTH, WICHITA, KS 67206



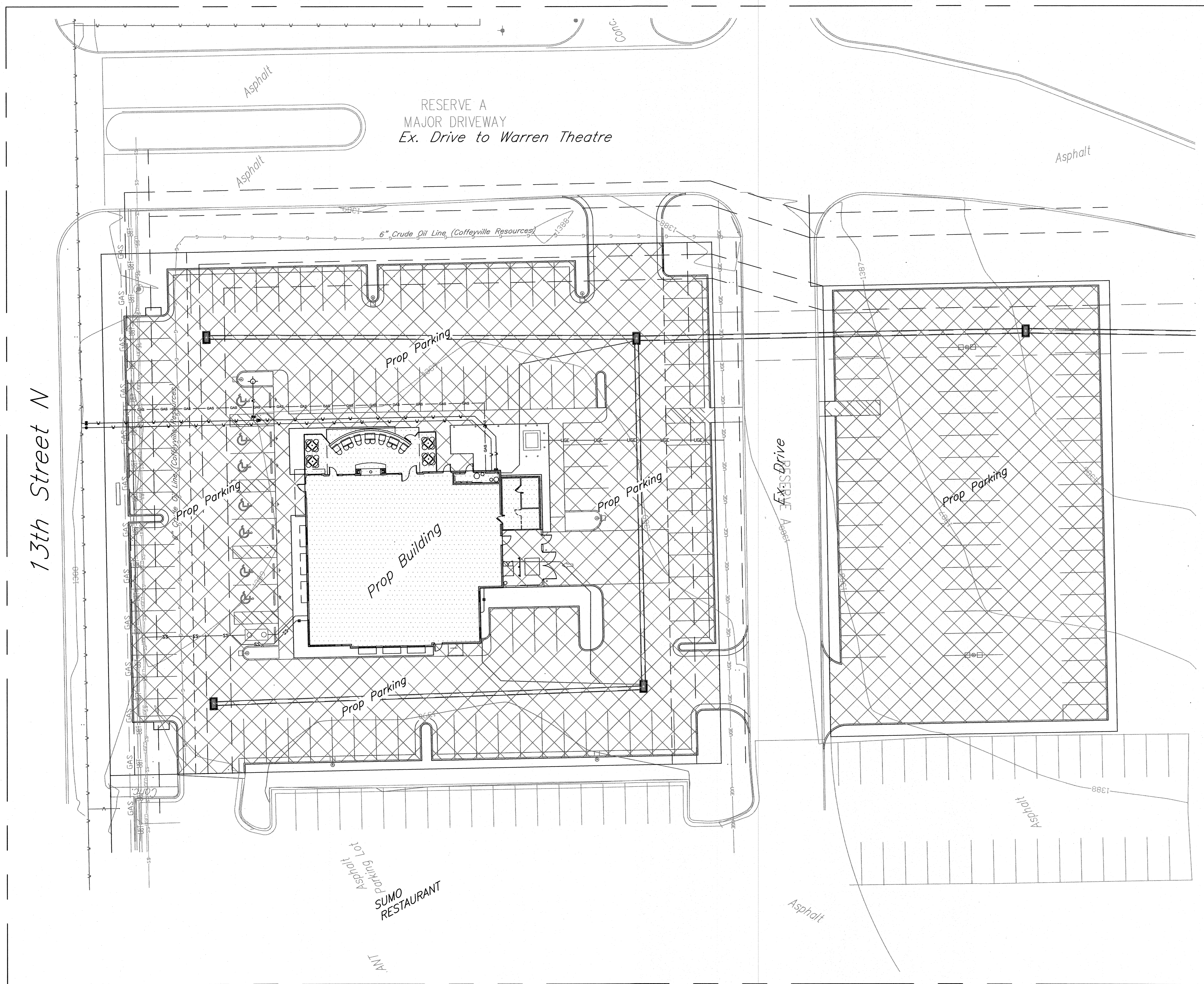
**RODGER A. BROOKS / ARCHITECT**  
 180 RAINBOW DR. #879, LIVINGSTON, TX 77360-1089  
 316.734.8526 fax:888.846.0243 brockscara@aol.com

PROJECT NUMBER  
**08815**  
 WICHITA, KS  
 ISSUE DATE  
**06.03.13**

0185 PPD  
 DRAINAGE PLAN  
**C5.0**

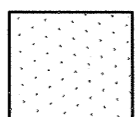
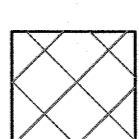
**KEMILLER** ENGINEERING PA  
 117 E. Lewis, Wichita, KS 67202 (316)264-0242

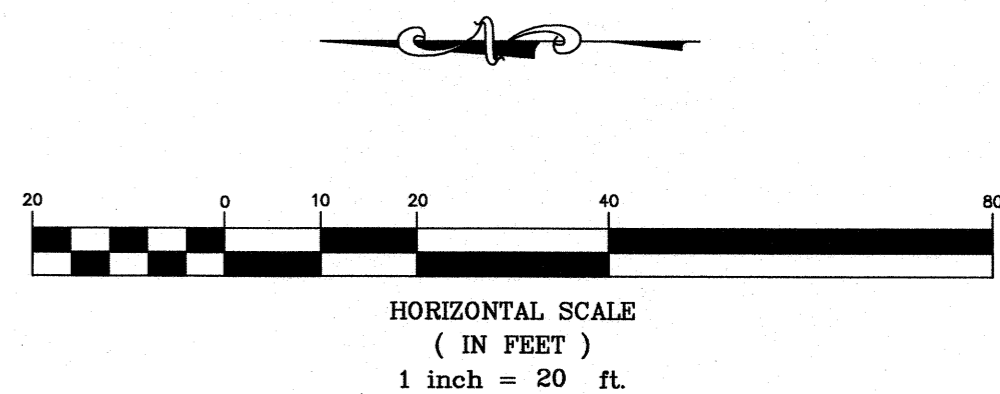
REV. NO. 13068  
 DESIGN CP  
 DRAWN CP



**ERU Calculations:**

Ex. Impervious Area=	0.0 sq. ft.
Proposed Building Area:	6826.0 sq.ft.
Proposed Parking, Sidewalks, and Other Impervious Areas:	58190.0 sq.ft.
Total Impervious Area: (Post Construction)	65017.0 sq.ft.
Net Increase in Impervious Area:	65017.0 sq.ft.

- Hatching Legend:**
-  Building Area
  -  Parking, Sidewalks, and Other Impervious Area



DATE	DESCRIPTION	REVISION #	REVISION PER PLAN REVIEWS
07.20.13		1	
08.15.13		2	

**Applebees**

11317 EAST 13th STREET NORTH, WICHITA, KS 67206



**RA**

**RODGER A. BROOKS / ARCHITECT**  
189 RAINBOW DR. #8079, LIVINGSTON, TX 77359-1089  
316.724.5526 fax:888.846.0243 brooksarch@aol.com

PROJECT NUMBER	<b>08815</b>
WICHITA, KS	
ISSUE DATE	<b>06.03.13</b>

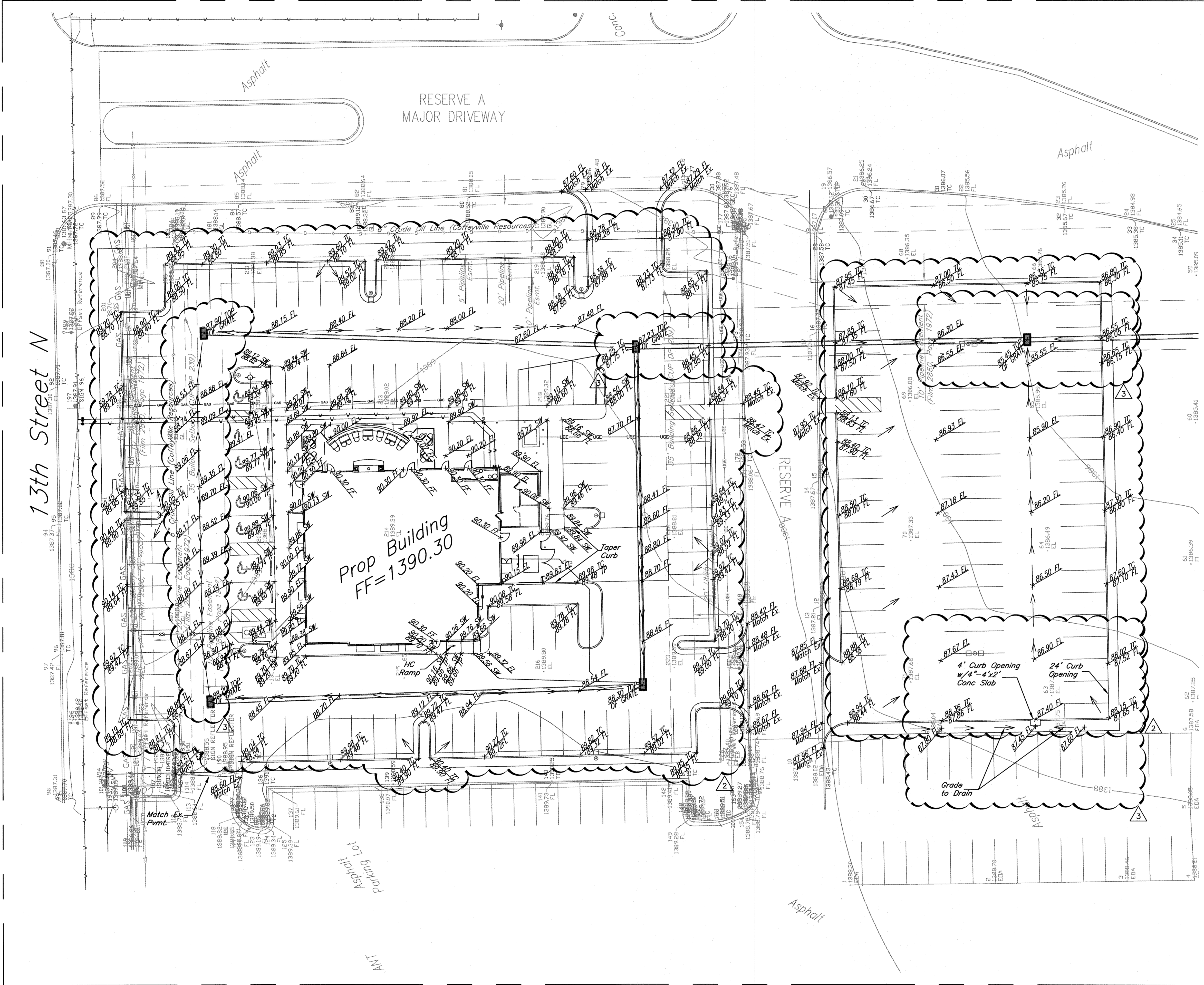
0185 PPD  
ERU PLAN

C6.0

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

KEM. NO.	13068
DESIGN	GP
DRAWN	GP

13th Street N




**Grading Legend:**

- EP = Edge of Pavement
- EL = Elevation
- FL = Flow Line
- TC = Top of Curb
- SW = Top of Sidewalk
- TP = Top of Pavement
- = Flow Arrows
- ↘ ↙ = Valley Flowline

**Benchmarks**  
 Southeast corner of Sumo parking lot on the top of curb.  
 Elevation=1389.94 NAVD 88  
 City of Wichita Disc 0.5 miles east of Webb Road on 13th Street North. South right-of-way 45.92 ft Southeast of 1/4 section corner iron  
 Elevation=1380.18 NAVD 88

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08/13/13	REVISION PER PLAN REVIEWS
08/27/13	REVISION PER PLAN REVIEWS


  
**Applebees**  
 11317 EAST 13th STREET NORTH, WICHITA, KS 67206



  
**RODGER A. BROOKS / ARCHITECT**  
 180 RAINBOW DR. #8070, LIVINGSTON, TX 77349-1089  
 318.734.5526 fax:888.846.0243 brooksra@atd.com

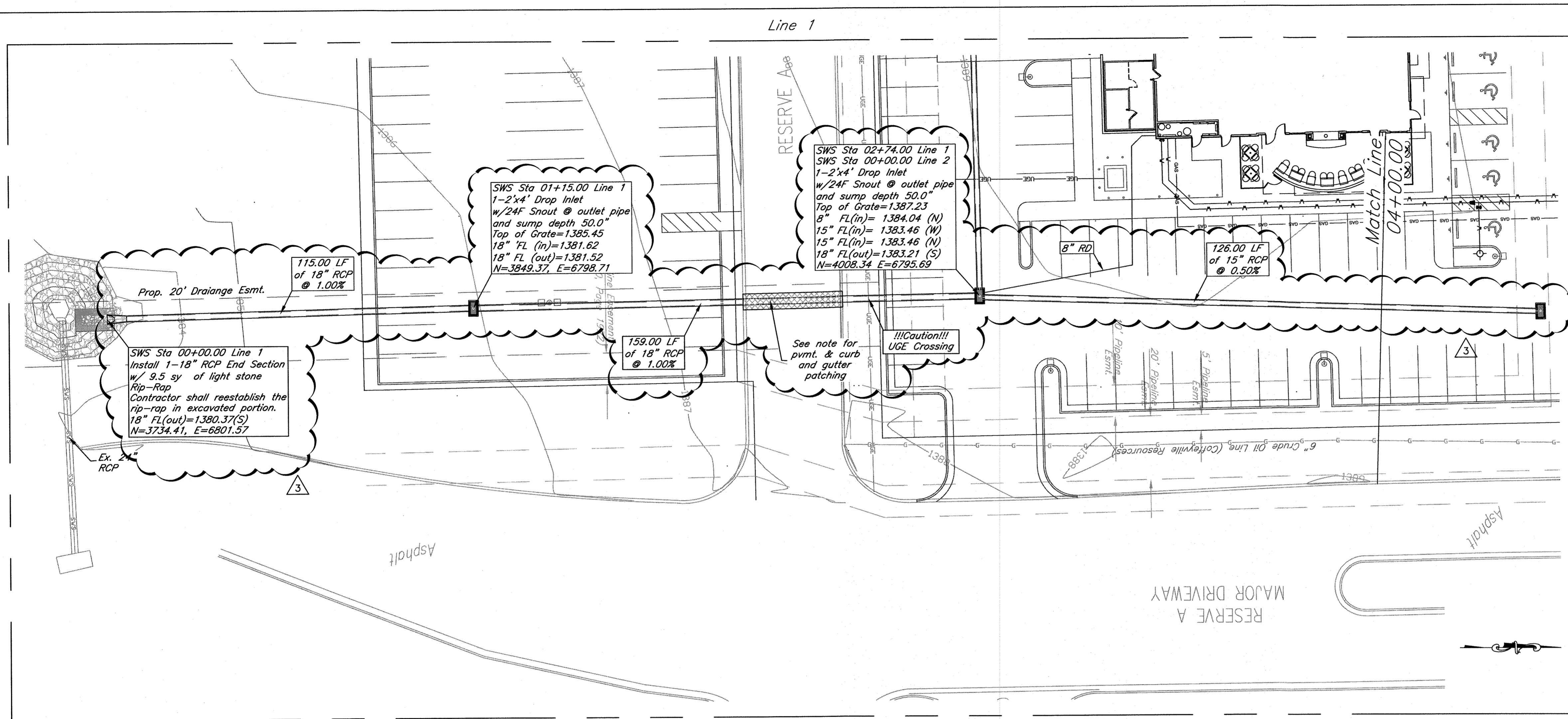
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**08815**  
 WICHITA, KS  
 ISSUE DATE  
**06.03.13**

0185 PPD  
 GRADING PLAN  
  
**C7.0**

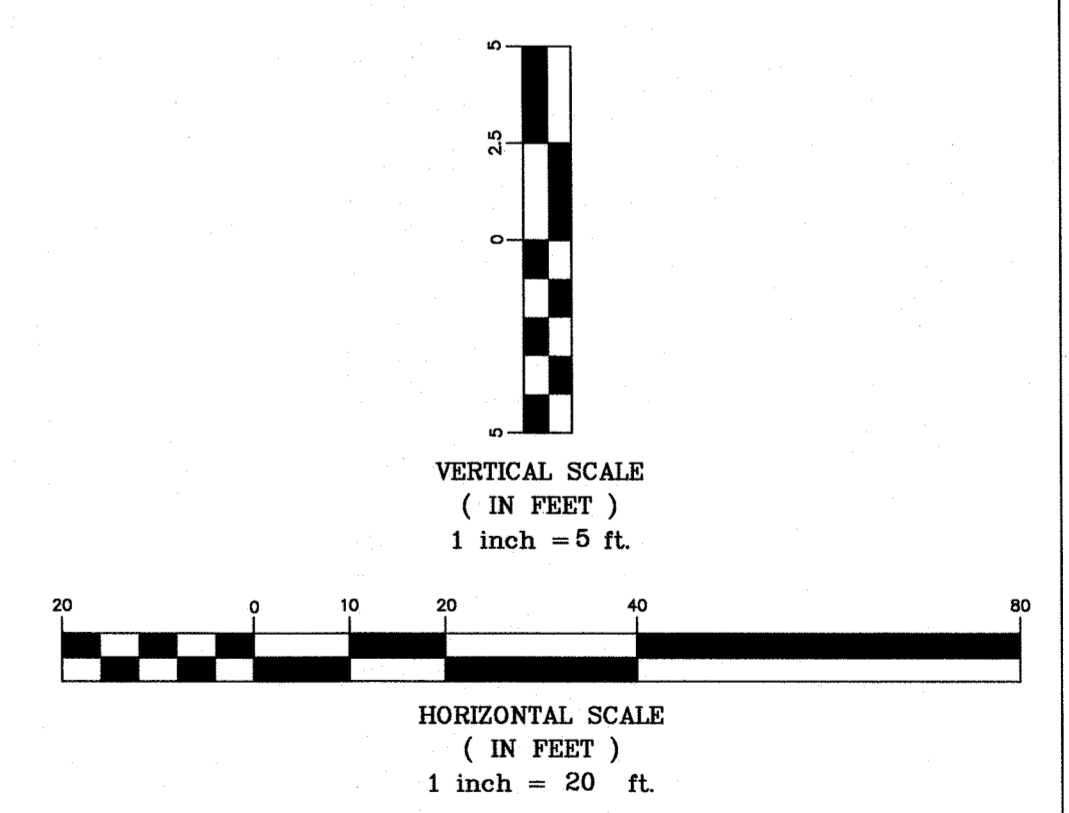
  
**KEMILLER**  
 ENGINEERING PA  
 117 E. Lewis, Wichita, KS 67202 (316)244-0242

KEM NO.  
 13068  
 DESIGN  
 GP  
 DRAWN  
 GP





Note:  
The pvmt. patching/replacement shall be done with Plazzio's developer supervision. Contractor shall coordinate with the plazzio developer before installation of pipe. Traffic shall not interrupted during the installation.

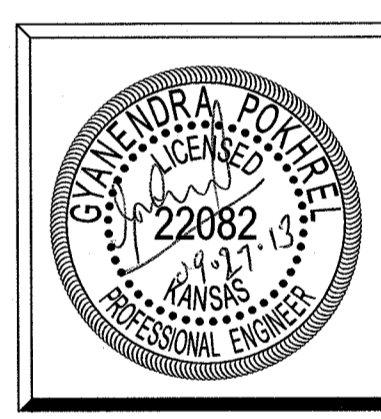


AS BUILTS  
kemiller engineering  
516 S. Market, Wichita, KS 67202 (316)264-0242

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

DATE	DESCRIPTION
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08/27/13	REVISION PER PLAN REVIEWS

Applebee's  
11317 EAST 13th, STREET NORTH, WICHITA, KS 67206

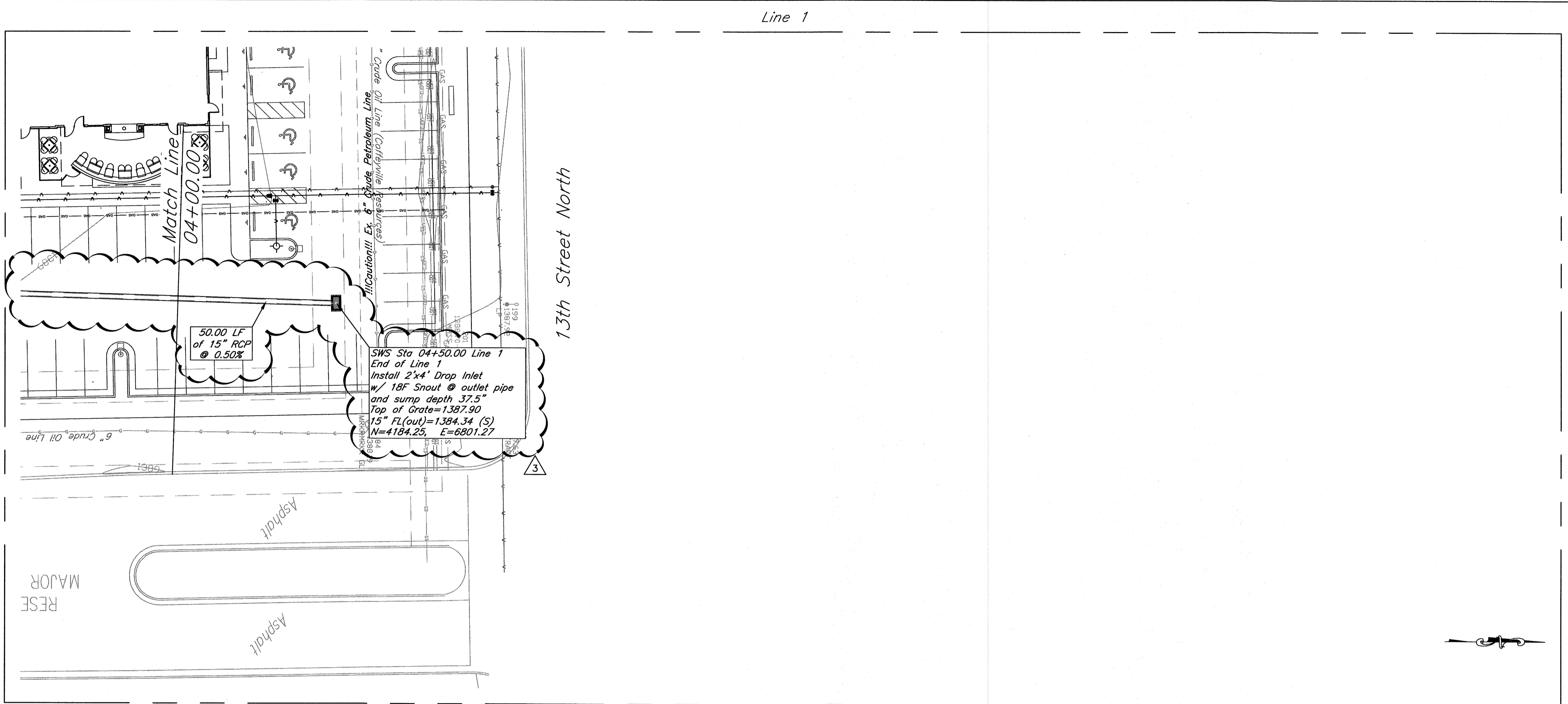


RODGER A. BROOKS / ARCHITECT  
189 RAINBOW DR. #8979, LIVINGSTON, TX 77399-1089  
316.734.5526 fax:888.946.0243 brookresearch@aol.com

PROJECT NUMBER  
**08815**  
WICHITA, KS  
ISSUE DATE  
**06.03.13**

0185 PPD  
PLAN AND PROFILE  
LINE 1  
**C8.1**

KEM NO.  
13068  
DESIGN  
GP  
DRAWN  
GP

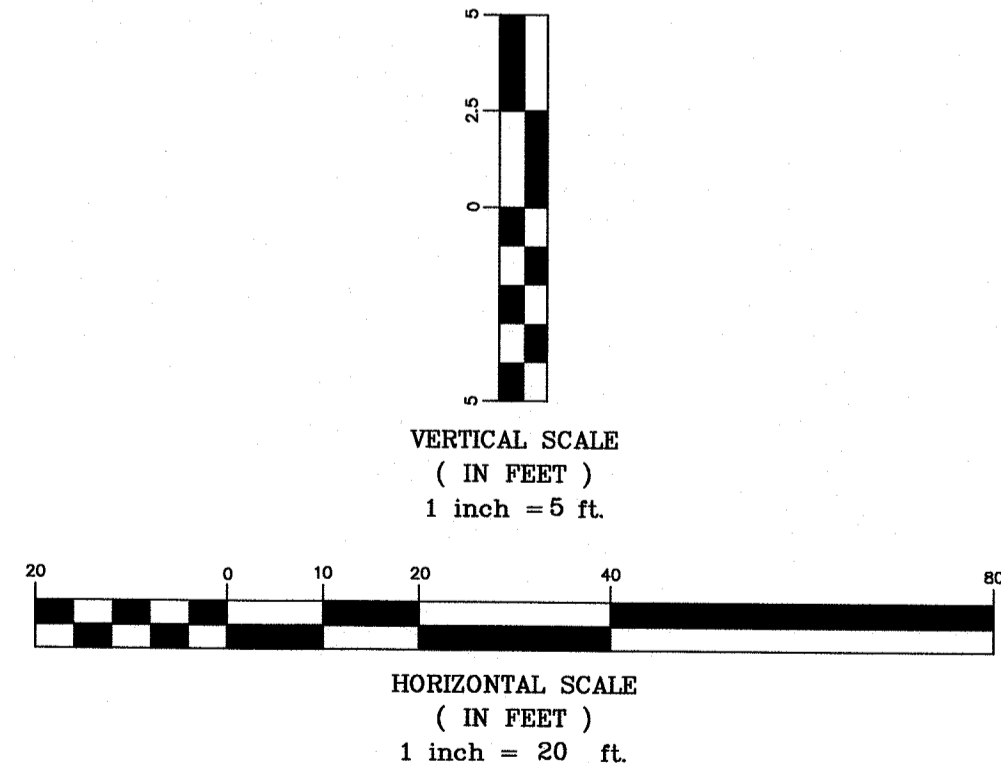
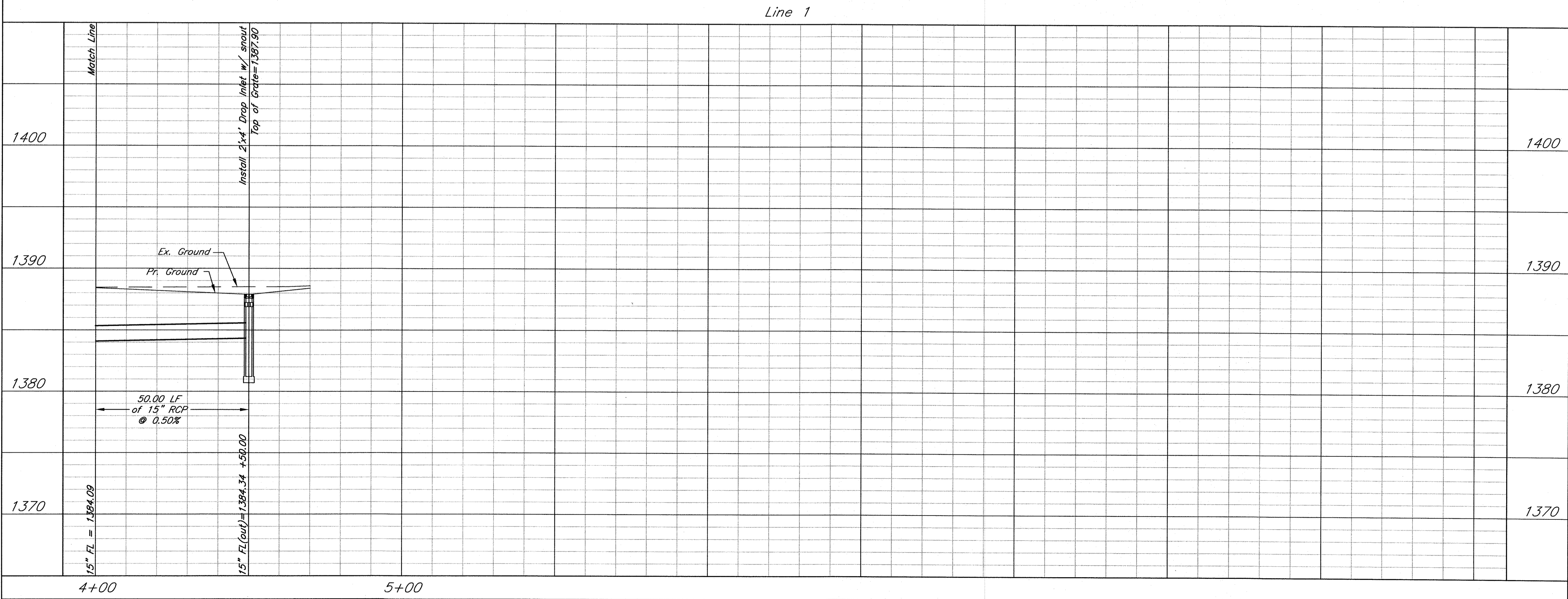
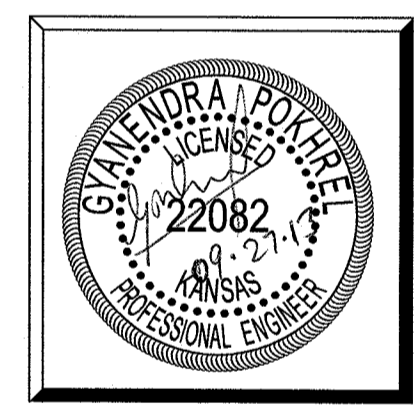


Note:  
Contractor shall notify Dennis Young at  
(620)870-0512 72-hours prior to  
excavation around the 6" Coffeyville  
Resources high pressure petroleum  
line.

DATE	DESCRIPTION
07/22/13	REVISION #1
08/15/13	REVISION PER PLAN REVISIONS
09/27/13	REVISION PER PLAN REVISIONS

**Applebees**

11317 EAST 13th. STREET NORTH, WICHITA, KS 67206



**AS BUILTS**

**kemiller**  
engineering

516 S. Market,  
Wichita, KS 67202 (316)264-0242

**KEMILLER**  
ENGINEERING PA

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

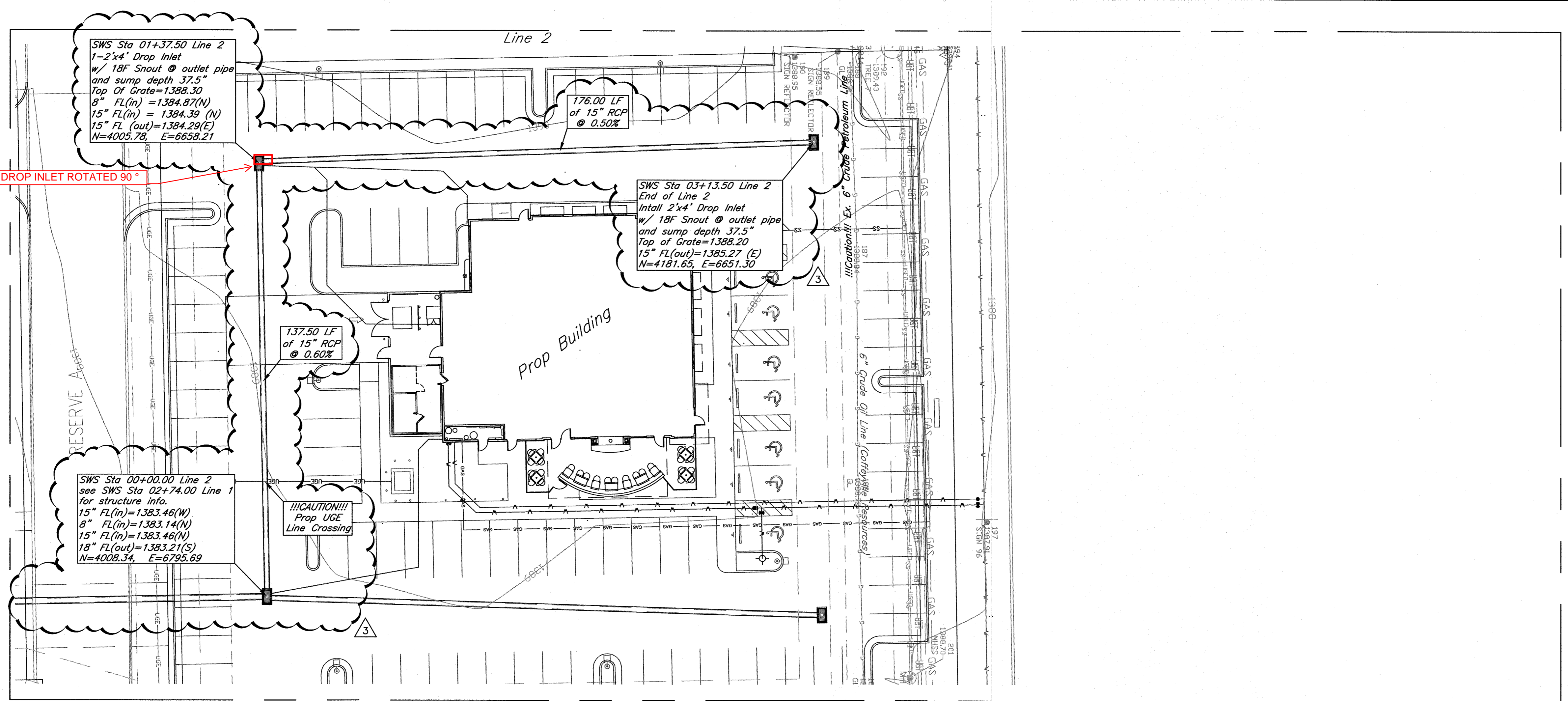
**RODGER A. BROOKS / ARCHITECT**

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316.734.5526 fax:889.846.0243 brooksarch@aol.com

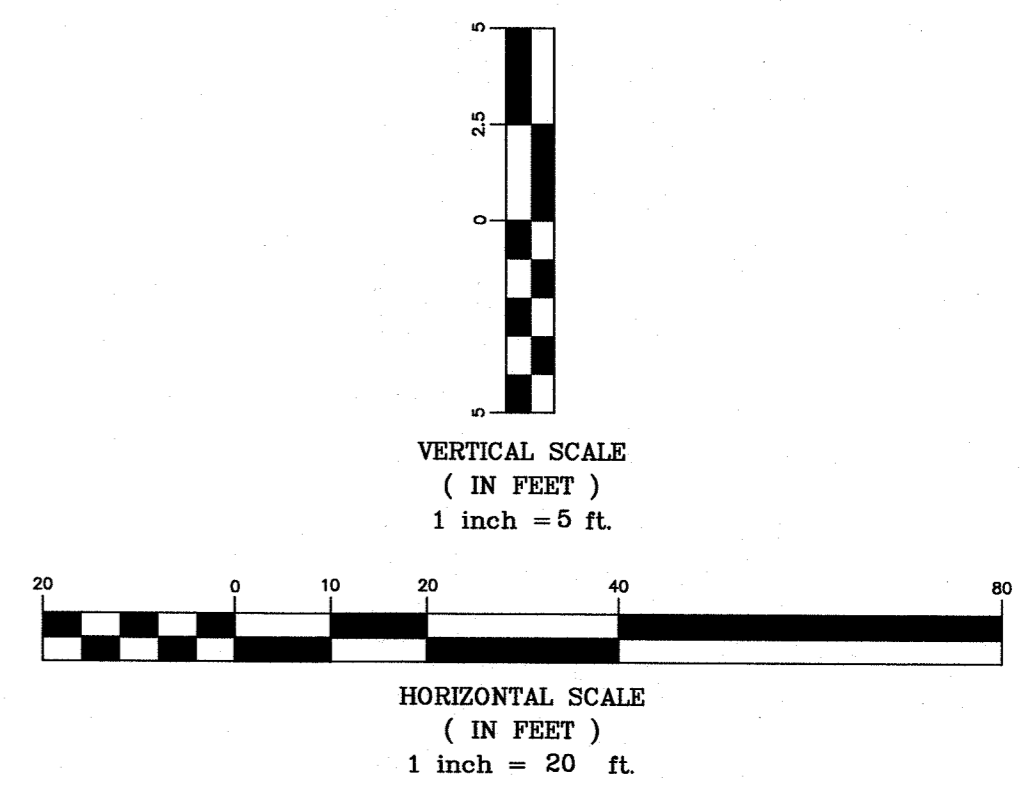
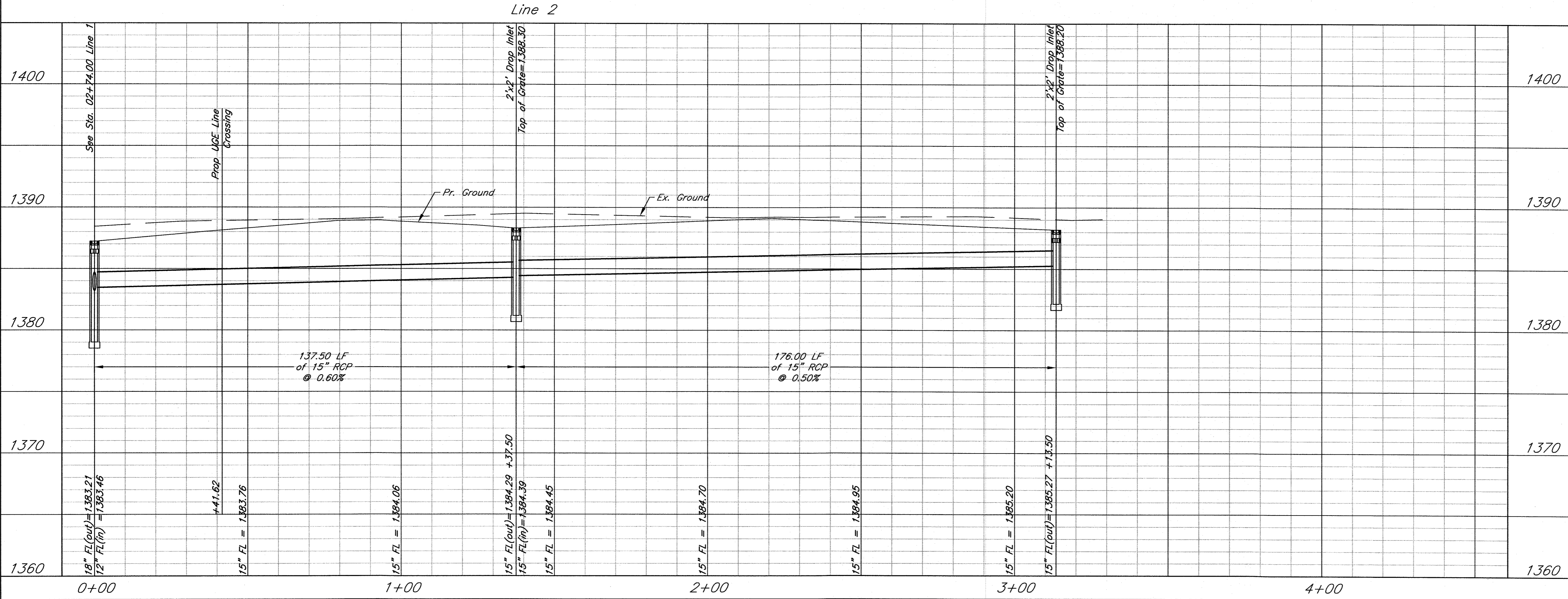
PROJECT NUMBER  
**08815**  
WICHITA, KS  
ISSUE DATE  
**06.03.13**

0185 PPD  
PLAN AND PROFILE  
LINE 1

**C8.2**



Note:  
Contractor shall notify Dennis Young at  
{(620)870-0512} 72-hours prior to  
excavation around the 6" Coffeyville  
Resources high pressure petroleum  
line.



**AS BUILTS**  
kemiller  
engineering

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

DATE	DESCRIPTION
07/22/13	REVISION #1
08/15/13	REVISION PER PLAN REVIEWS
08/27/13	REVISION PER PLAN REVIEWS

**Applebees**  
11317 EAST 13th. STREET NORTH, WICHITA, KS 67206

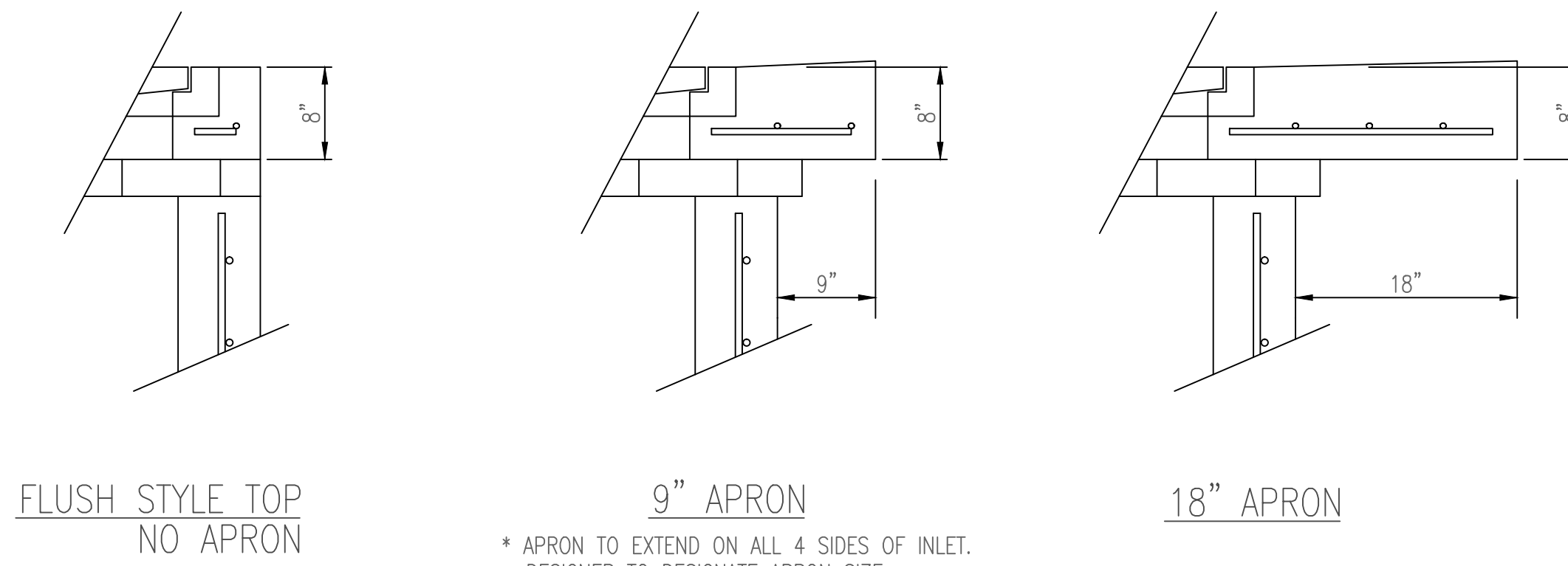
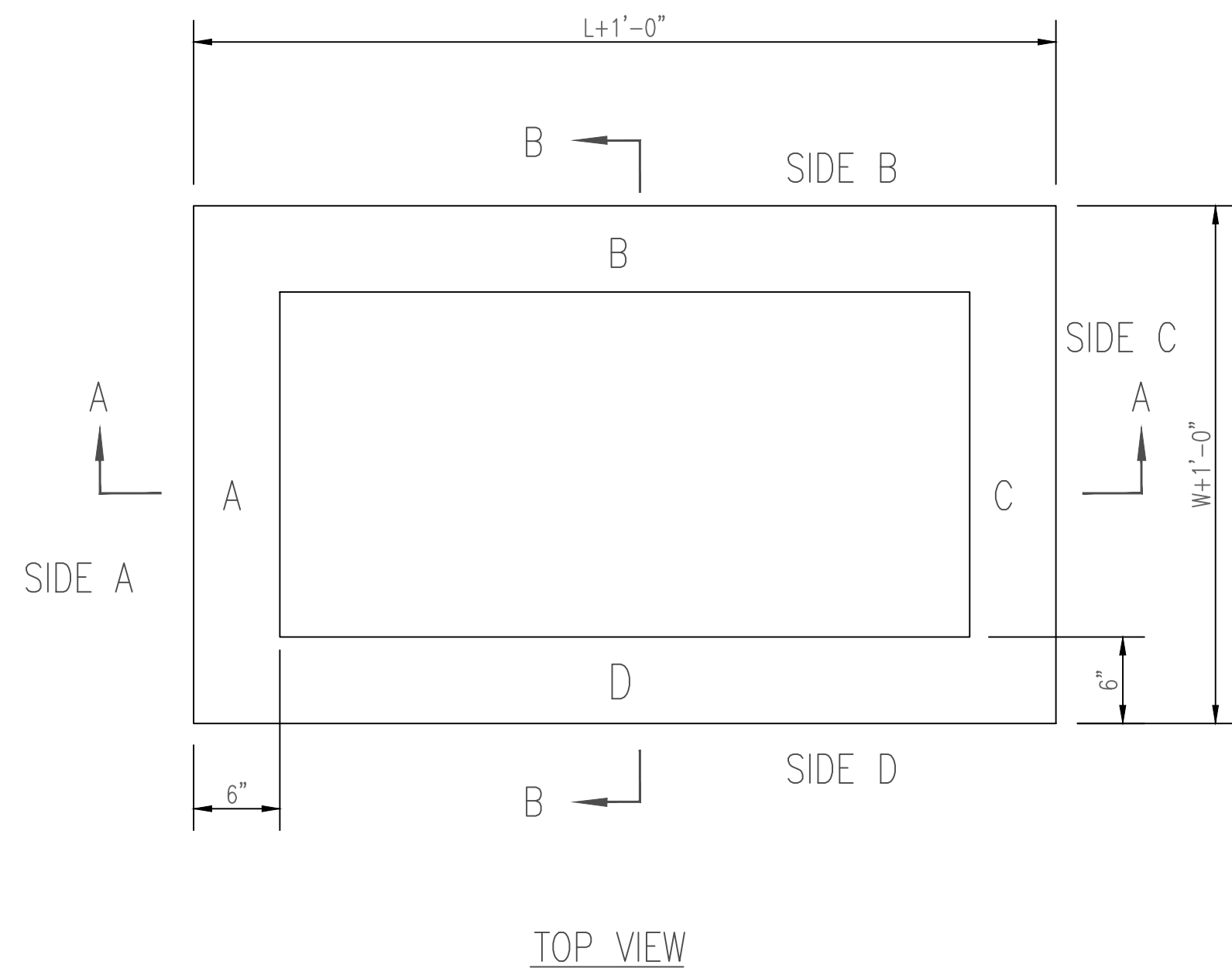


**RODGER A. BROOKS / ARCHITECT**  
188 RAINBOW DR. #8079 LIVINGSTON, TX 77399-1089  
316.734.5526 fax:888.846.0243 brooksarch@aol.com

PROJECT NUMBER  
**08815**  
WICHITA, KS  
ISSUE DATE  
**06.03.13**

0185 PPD  
PLAN AND PROFILE  
LINE 2  
**C8.3**

KEM NO.  
13068  
DESIGN  
GP  
DRAWN  
GP



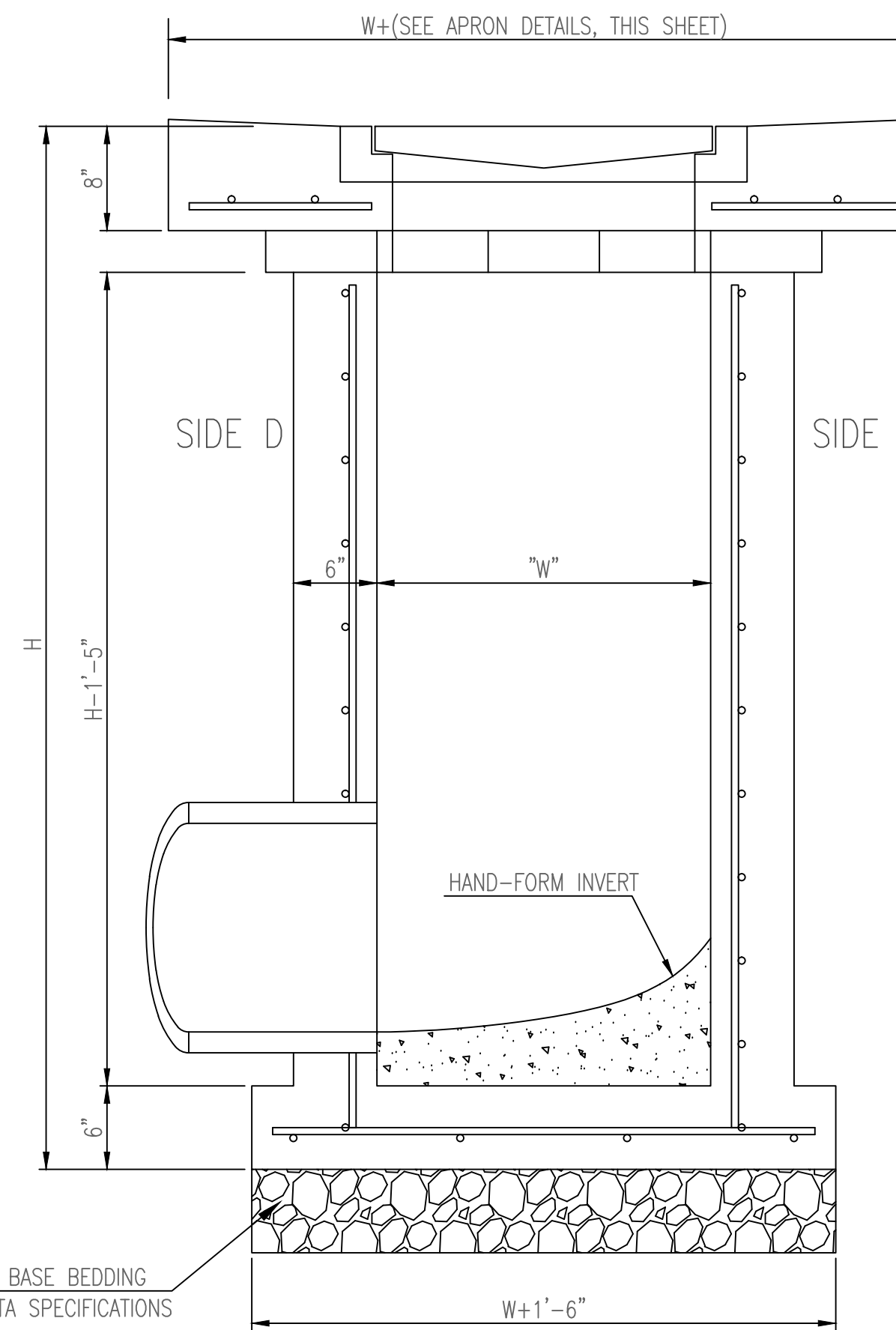
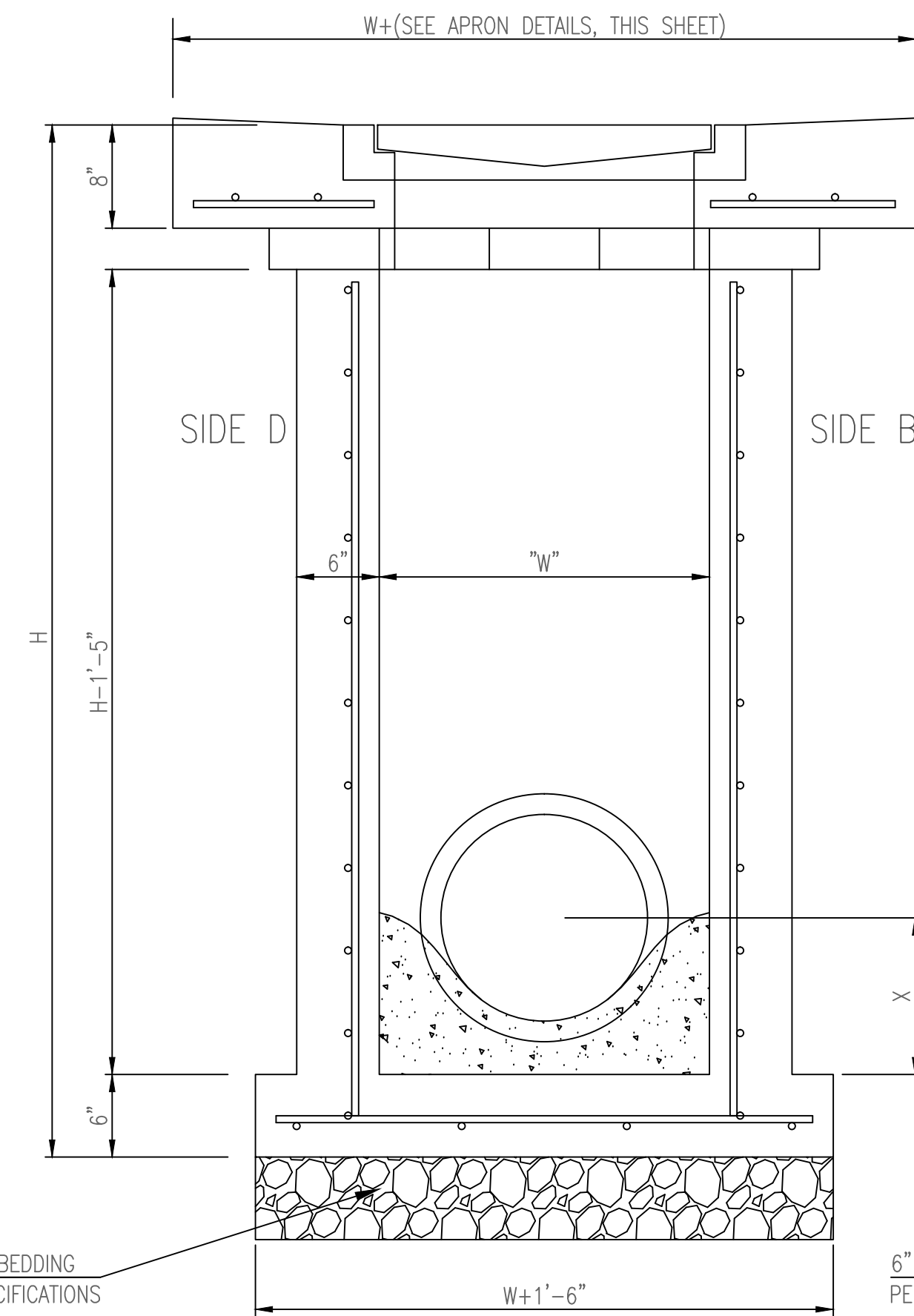
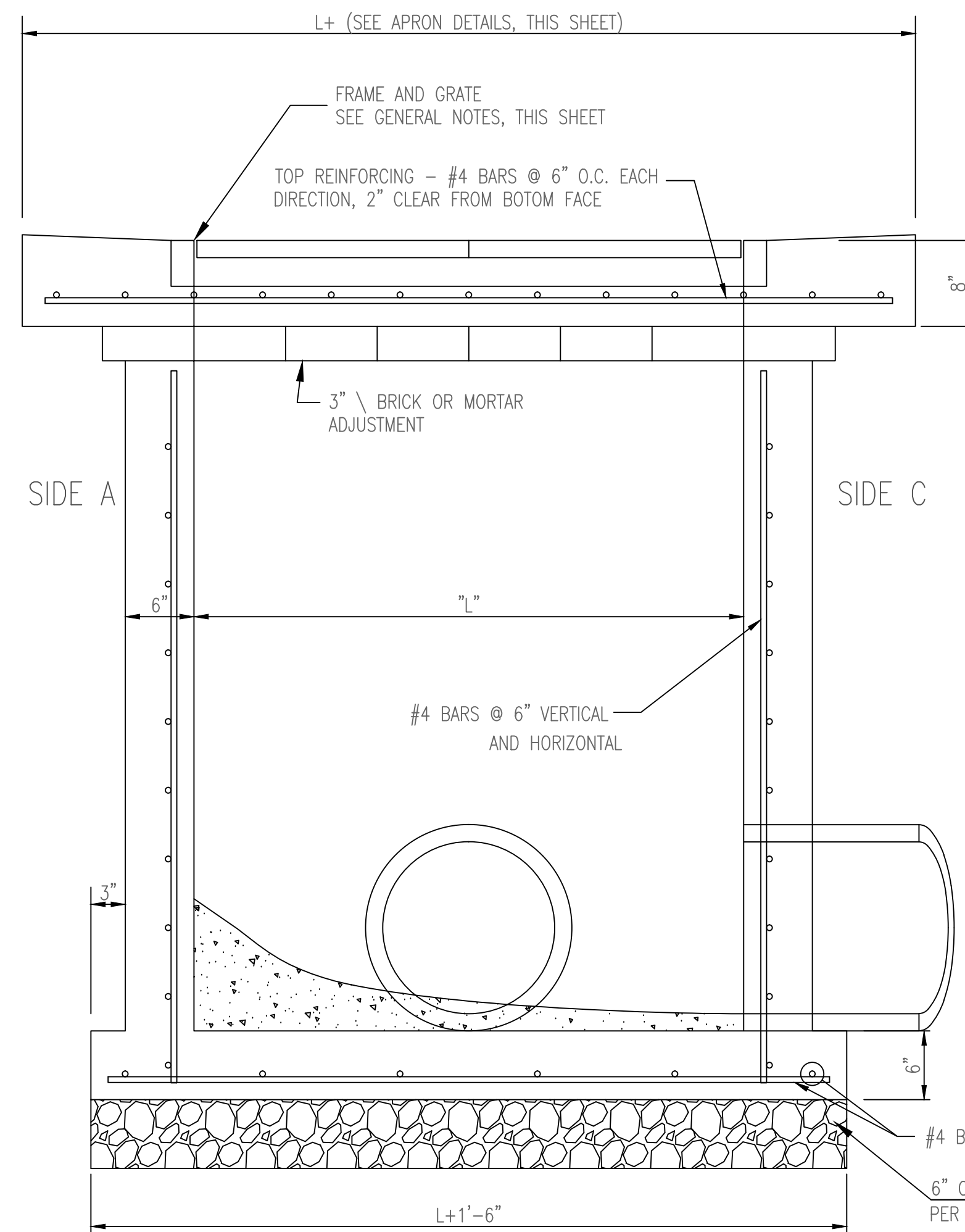
\* APRON TO EXTEND ON ALL 4 SIDES OF INLET. DESIGNER TO DESIGNATE APRON SIZE.

W=2' and L=2' for SINGLE DROP INLET  
W=2' and L=4' for DOUBLE DROP INLET

The structure(s) on this detail sheet are designed for HS-20 loading at these specific dimensions only. If larger dimensions are required, the ENGINEER shall provide a project specific structure design for approval by the City Engineer's office.

**GENERAL NOTES**

- GRATE FRAME TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
- 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.
- INLET FRAME AND GRATE TO BE DEETER #2433, EJIW #5391-Z1 OR APPROVED EQUAL FOR 2'x2' SINGLE DROP INLET AND DEETER #2434, EJIW #5391 Z3 OR APPROVED EQUAL FOR 2'x4' DOUBLE DROP INLET.
- 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.



SINGLE/DOUBLE DROP INLET		
CITY ENGINEER <b>GRAY JANZEN, P.E.</b>		
PROJECT NUMBER	OCA NUMBER	DATE
		05/2011
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET

SW-201



KEM NO. 13068  
DESIGN GP  
DRAWN GP

DATE	DESCRIPTION
07/22/13	REVISION #1
08/15/13	REVISION PER PLAN REVIEWS

**Applebees**  
11317 EAST 13th. STREET NORTH, WICHITA, KS 67206



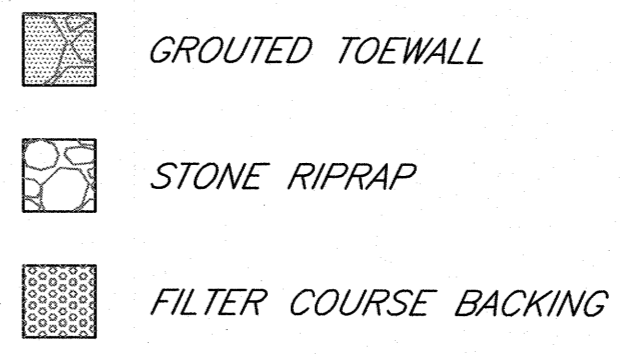
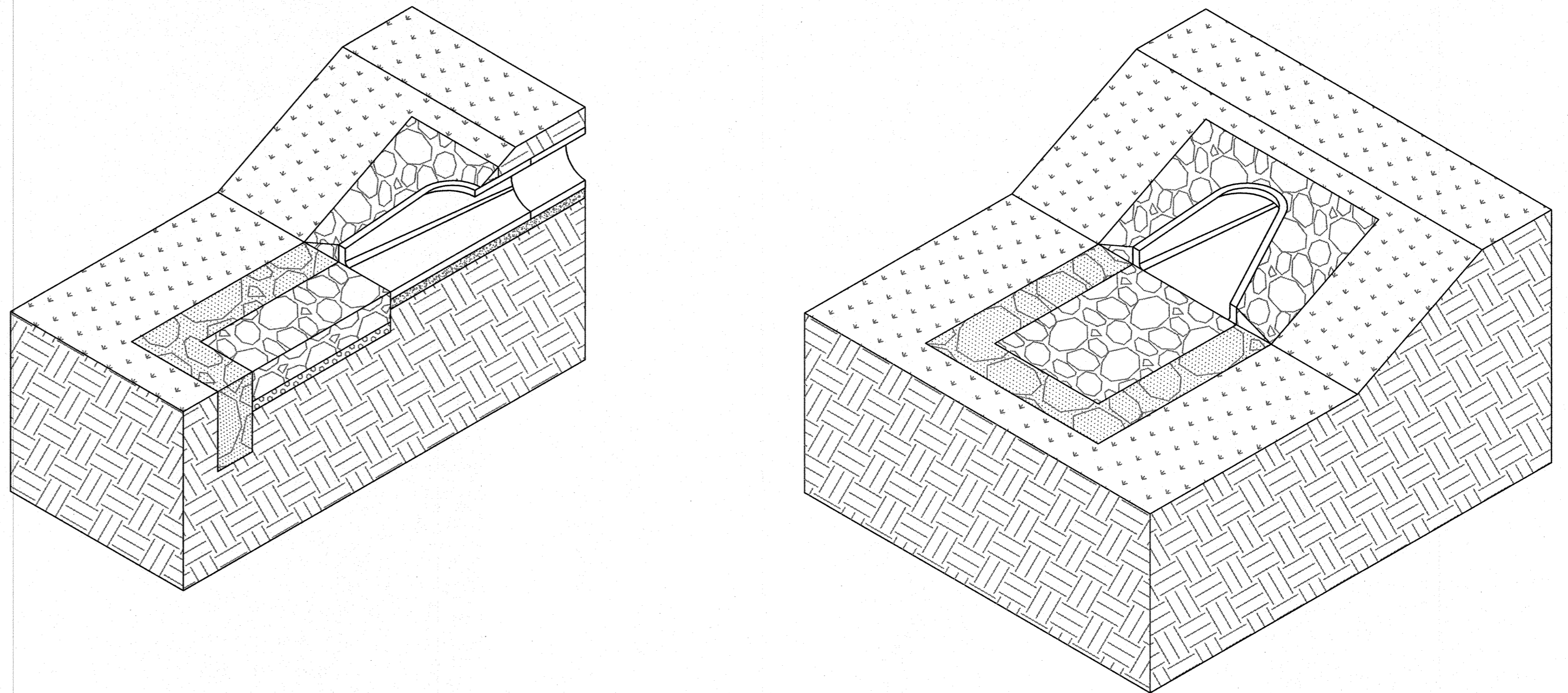
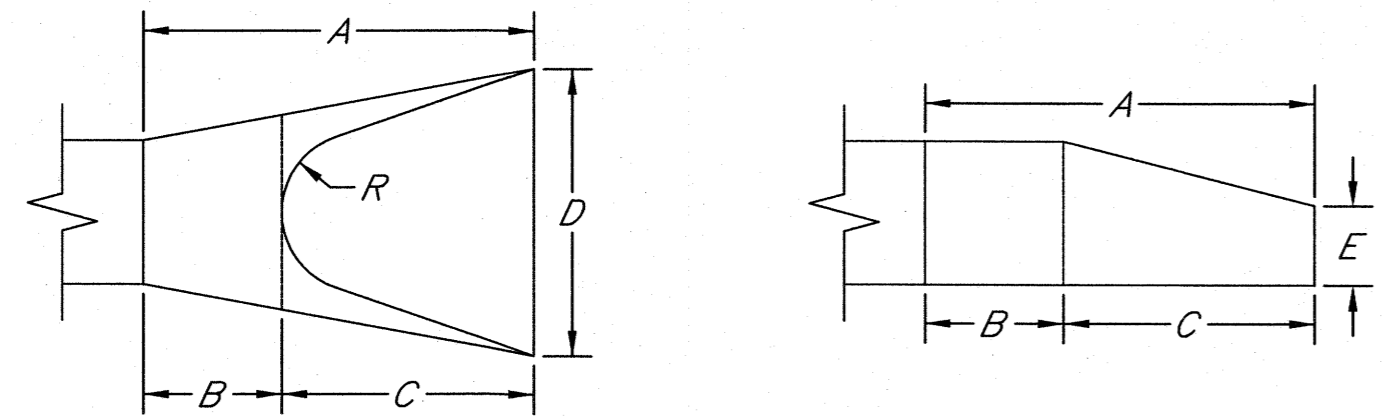
**RODGER A. BROOKS / ARCHITECT**  
189 FAIRBOW DR. #6070, LIVINGSTON, TX 77399-1089  
316.724.5526 fax:888.846.0243 brooksarch@aol.com

PROJECT NUMBER <b>08815</b> WICHITA, KS	ISSUE DATE <b>06.03.13</b>
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0185 PPD  
DROP INLET DETAIL  
**C8.4**

Re-Enforced Concrete Pipe Information									
Pipe Size	Wall	Weight per ft	Elliptical Equivalent	End Section Information					
	Thickness			"A"	"B"	"C"	"D"	"E"	"R"
12"	2.0"	100 lbs	---	6.07'	4.07'	2.00'	2.00'	0.33'	0.75'
15"	2.5"	128 lbs	---	6.08'	3.83'	2.25'	2.50'	0.50'	0.92'
18"	2.5"	168 lbs	23"x14"	6.08'	3.83'	2.25'	3.00'	0.75'	1.00'
24"	3.0"	268 lbs	30"x19"	6.12'	2.50'	3.62'	4.00'	0.79'	1.16'
30"	3.5"	385 lbs	38"x24"	6.12'	1.64'	4.50'	5.00'	1.00'	1.25'
36"	4.0"	524 lbs	45"x29"	8.14'	2.89'	5.25'	6.00'	1.25'	1.66'
42"	4.5"	684 lbs	53"x34"	8.16'	2.92'	5.25'	6.50'	1.75'	1.83'
48"	5.0"	868 lbs	60"x38"	8.16'	2.16'	6.00'	7.00'	2.00'	1.83'
54"	5.5"	1070 lbs	68"x43"	8.18'	2.77'	5.42'	7.50'	2.25'	2.00'
60"	6.0"	1290 lbs	---	8.25'	3.25'	5.00'	8.00'	2.92'	2.00'
66"	6.5"	1540 lbs	---	---	---	---	---	---	---
72"	7.0"	1800 lbs	---	8.25'	1.75'	6.50'	9.00'	3.00'	2.00'
84"	---	---	---	9.25'	1.75'	7.54'	10.00'	3.00'	2.00'

\*\*all measurements approximate\*\*



**GRADATION REQUIREMENTS:**

1. **Heavy Stone Riprap:** Heavy stone riprap shall be constructed twenty-four inches (24") in thickness and shall be placed on a stone filter course backing having a thickness of nine inches (9"). Stone used in riprap shall meet the required quality requirements and the following size requirements.

Weight of Individual Pieces	Minimum Percent Larger Than
1,000 lbs	0%
500 lbs	50%
75 lbs	90%

Filter course backing for heavy stone riprap shall be produced from the stone meeting the quality requirements of stone for riprap and shall have the following size requirements

Sieve Size	Percent Retained
6"	0%
5"	5-25%
2"	40-60%
3/8"	75-95%

2. **Light Stone Riprap:** Light stone riprap shall be constructed eighteen inches (18") in thickness and shall be placed on a stone filter course backing having a thickness of six inches (6"). Stone used in riprap shall meet the required quality requirements and the following size requirements.

Weight of Individual Pieces	Minimum Percent Larger Than
500 lbs	0%
250 lbs	50%
125 lbs	70%
10 lbs	90%

Filter course backing for heavy stone riprap shall be produced from the stone meeting the quality requirements of stone for riprap and shall have the following size requirements

Sieve Size	Percent Retained
4"	0%
2"	10-40%
1"	25-60%
3/8"	55-85%
#4	70-95%

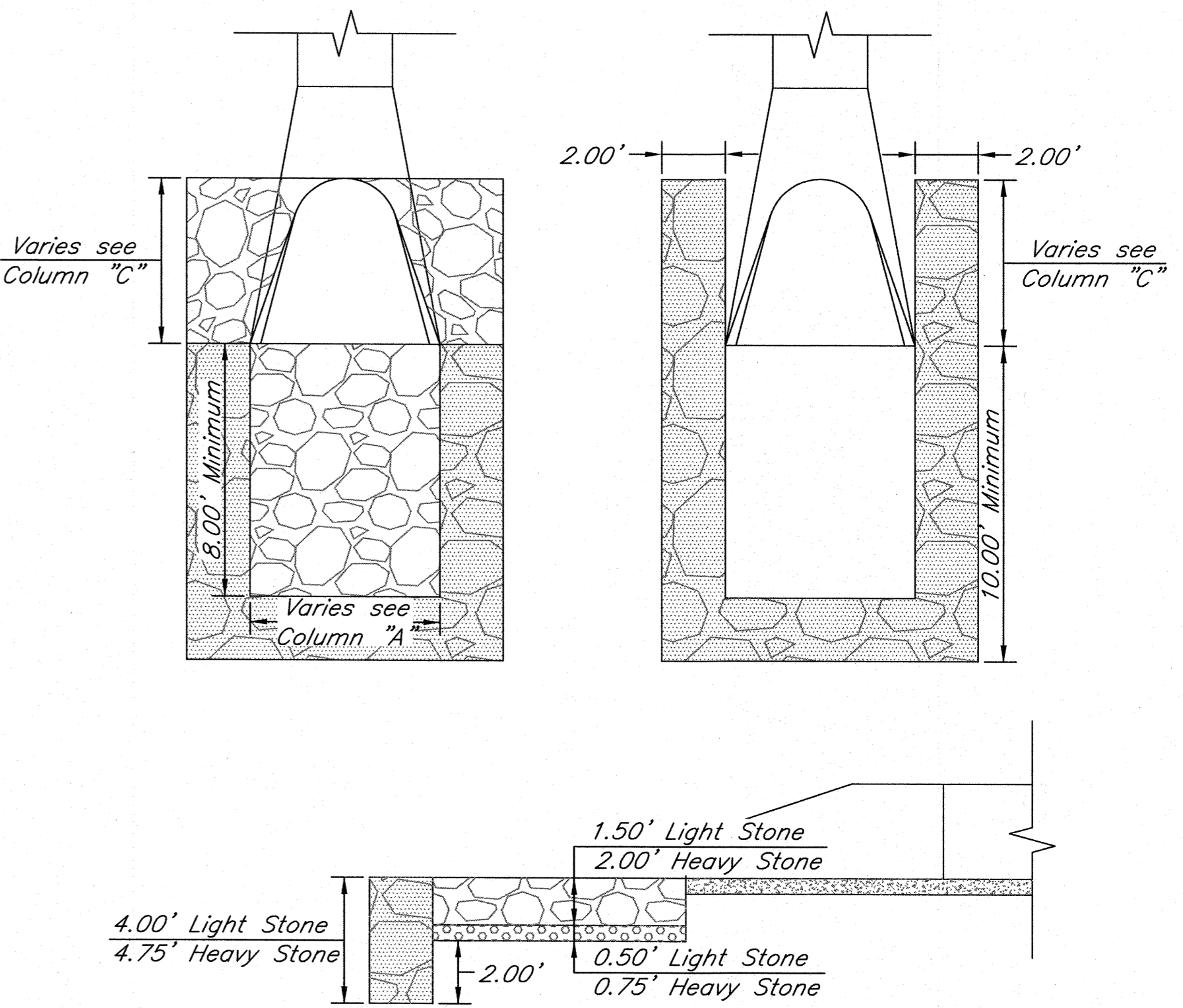
**INSTALLATION OF STONE RIPRAP:**

Stone riprap shall be placed on a prepared bedding layer so as to produce a reasonably well-graded mass with a minimum percentage of void. Stone riprap shall be placed to its full course thickness in one operation without displacing the bedding. Placing stone riprap by dumping into chutes or any other method likely to cause segregation will not be permitted. Placement of stone on the slope and in toe trenches shall be accomplished by controlled dumping directly in place.

Bulldozing of stone from the upper banks will not be permitted, use of a drag line or similar equipment operated from the top of the bank to pull stone into position on the upper slope will be permitted. Stone riprap may be placed below water, providing it is placed by skip or another approved method which will prevent segregation. Larger stones should be distributed and the entire mass of stones in their final position should be stable and free of pockets of small stones and clusters of larger ones; rearrangement of individual pieces by hand may be required to obtain the results described above. A tolerance of plus three inches (3") from the lines and grades shown on the continuous over an area greater than 100 square feet. Hand placing of riprap stones shall be necessary to produce reasonably true surfaces and close fit of stones. The larger spaces between the stones shall be fitted with spalls of suitable size, rammed thoroughly in place. The spaces between stones shall be fitted with smaller rock, carefully hand placed in such a manner to obtain a tight surface.

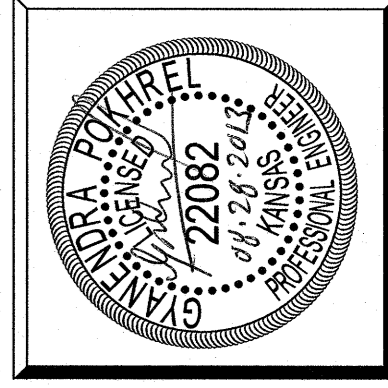
Toewalls shall be installed along all unprotected edges of edges of stone riprap construction. Such toewalls shall be constructed using the same size stone specified for the riprap with the toewall thickness being the same thickness as specified for the riprap without the filter course backing. The toewalls shall extend a minimum distance of 2' below the bottom of the filter course backing material and they shall be constructed perpendicular to the top surface of the riprap construction. Toewall construction shall be grouted in place for the full depth from the bottom of the toewall to the top surface of the riprap for the full thickness of the toewall to the top surface of riprap for the full thickness of the toewall.

When specified, all riprap placed within the limits of a dimension of 10' from pipe ends, pipe end sections and headwall structures, as measured from the outside edges of such pipe ends or structures, shall be grouted in place. Other area shall be grouted when indicated by the plans. When grouted stone riprap is required, the spaces between the riprap stones shall be filled with water to form a plastic mix. The grout mixture shall be poured and broomed into the voids around the rock until all such voids are completely filled. Grouted stone riprap will be cured in the same manner as specified in the standard specifications for concrete pavement.



DATE	DESCRIPTION	REVISION #
07.07.13	REVISION #1	2
08.15.13	REVISION PER PLAN REVIEWS	

**Applebees**  
11317 EAST 13th, STREET NORTH, WICHITA, KS 67206



**RODGER A. BROOKS / ARCHITECT**  
188 RAINBOW DR. #8979, LIVINGSTON, TX 77399-1089  
316.734.5526 fax:888.846.0243 brooksarch@aol.com

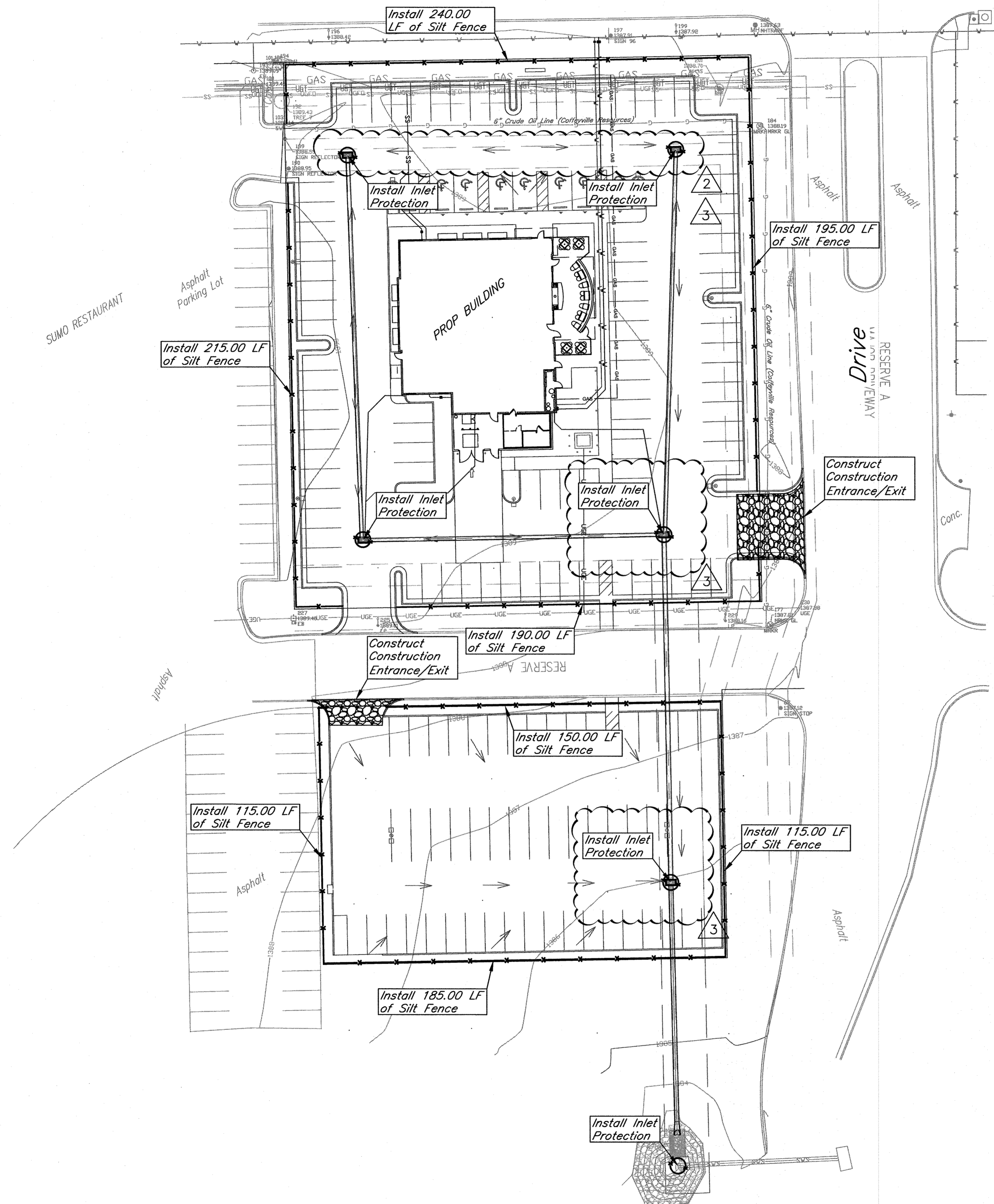
PROJECT NUMBER  
**08815**  
WICHITA, KS  
ISSUE DATE  
**06.03.13**

0185 PPD  
RIP RAP DETAIL  
**C8.5**

**KEMILLER** ENGINEERING, P.A.  
117 E. Lewis, Wichita, KS 67202 (316)264-0242

KEN NO.	13068
DESIGN	GP
DRAWN	GP

13th Street N

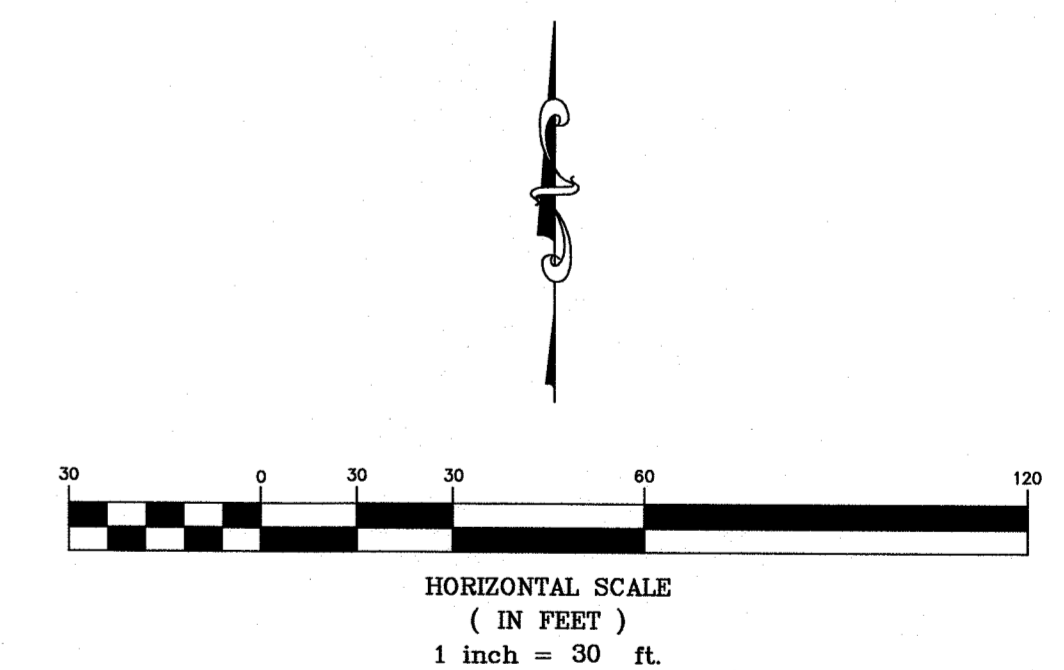


General Notes:

1. The BMP's shown on this sheet are considered minimum standards. Whenever sediment enters the streets, storm sewers, ditches, or ponds, contractor will install additional BMP's, as needed, to correct the problem.
2. The soil erosion BMP's shown hereon must be in place at all times during construction until such time as the site is re-established with paving or grass.
3. Back of curb protection can include hay bale, silt fence, Curlex barrier, or approved alternate as shown on BMP standard details. This BMP must remain in place until the area between the curb and right-of-way line has been permanently stabilized.
4. The General Contractor is responsible for the installation and maintenance per the prevention maintenance plan.
5. Concrete trucks will be permitted to wash out only at approved locations, then maintain and clean up as conditions require, by contractor. No hazardous materials are expected to be encountered. Any spills (diesel, fuel, oil, etc.) will be cleaned up and removed immediately. Portable toilets will be supplied and maintained at various sites along the project. Disposal of sewage will be handled by a contracting firm specializing in this activity.
6. The above mentioned storm water prevention methods will be monitored daily and maintained as required. A weekly erosion control log will be posted in the job trailer onsite, and updated weekly. Site inspections are required within 24 hours after a precipitation event of 0.5" or greater.

LEGEND:

- Flow Direction
- Inlet Protection - to be provided at all inlets subject to silt laden runoff.
- Ditch Check
- Temporary Seeding and Mating.
- Silt Fence or Hay Bale Barrier - to be installed along property lines where runoff from construction site can run onto other properties.
- Stabilized Construction Entrance - to be used at all locations where vehicles or equipment enter or exit property.
- Back of Curb Protection - to be installed whenever curb is backfilled to less than 3 inches from top and disturbed earth exists adjacent thereto. (See City Standard Details.)



DATE	DESCRIPTION
07/22/13	REVISION #1
08/15/13	REVISION PER PLAN REVIEWS
08/27/13	REVISION PER PLAN REVIEWS

**Applebees**

11317 EAST 13th, STREET NORTH, WICHITA, KS 67206



**RODGER A. BROOKS / ARCHITECT**

169 RAINBOW DR. #879 LIVINGSTON, TX 77369-1089  
 916.734.5526 fax:888.846.0243 brooksarch@aol.com

PROJECT NUMBER  
**08815**  
WICHITA, KS

ISSUE DATE  
**06.03.13**

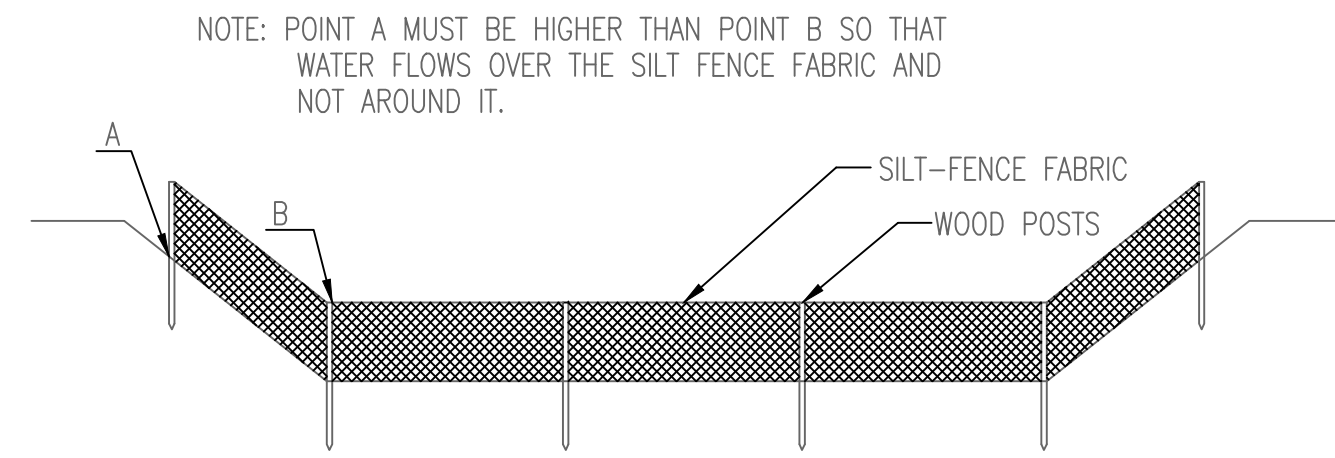
0185 PPD  
EROSION PLAN

C9.0

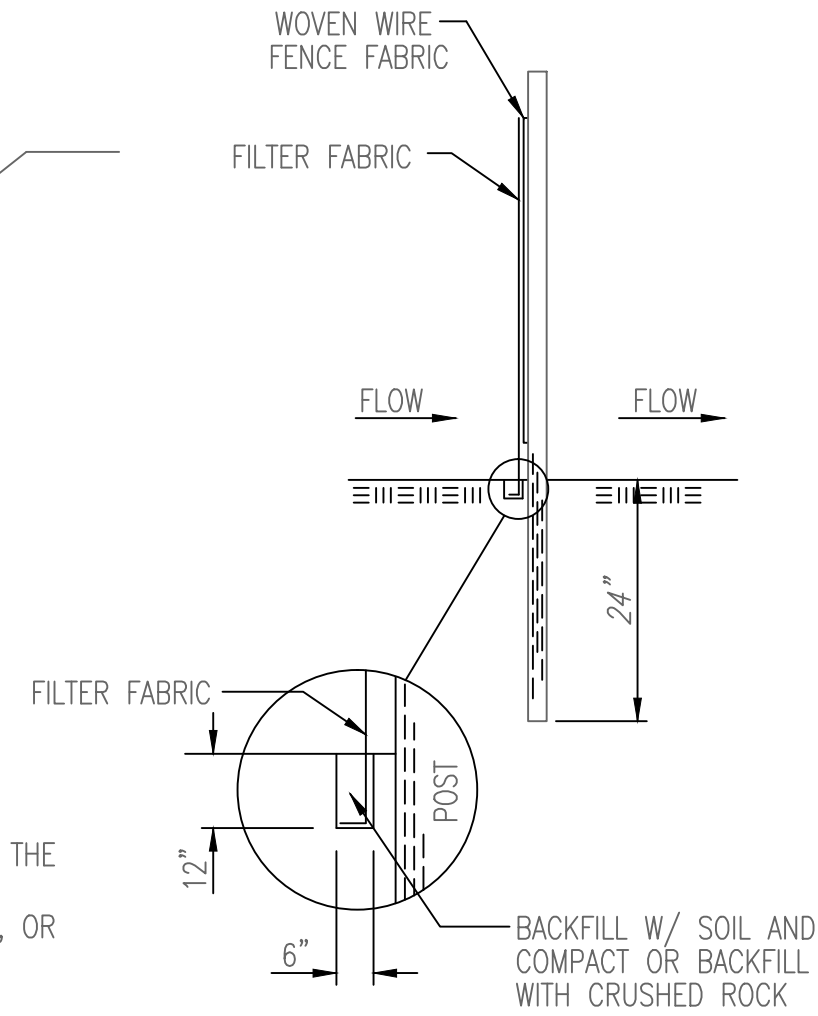
**KEMILLER** ENGINEERING PA  
 117 E. Lewis, Wichita, KS 67202 (316)264-0242

KEM NO. 13068	DESIGN GP
	DRAWN GP





ELEVATION  
SILT FENCE DITCH CHECKS  
(STREAM PROTECTION)



ANCHOR TRENCH DETAIL

**MATERIAL SPECIFICATION:**

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**PLACEMENT:**

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED. SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK. SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE (%)	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	60
3.0	65
4.0	50
5.0	40
6.0	30

**PROPER INSTALLATION METHOD:**

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE OF THE TRENCH. LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE ON THE UPSLOPE SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

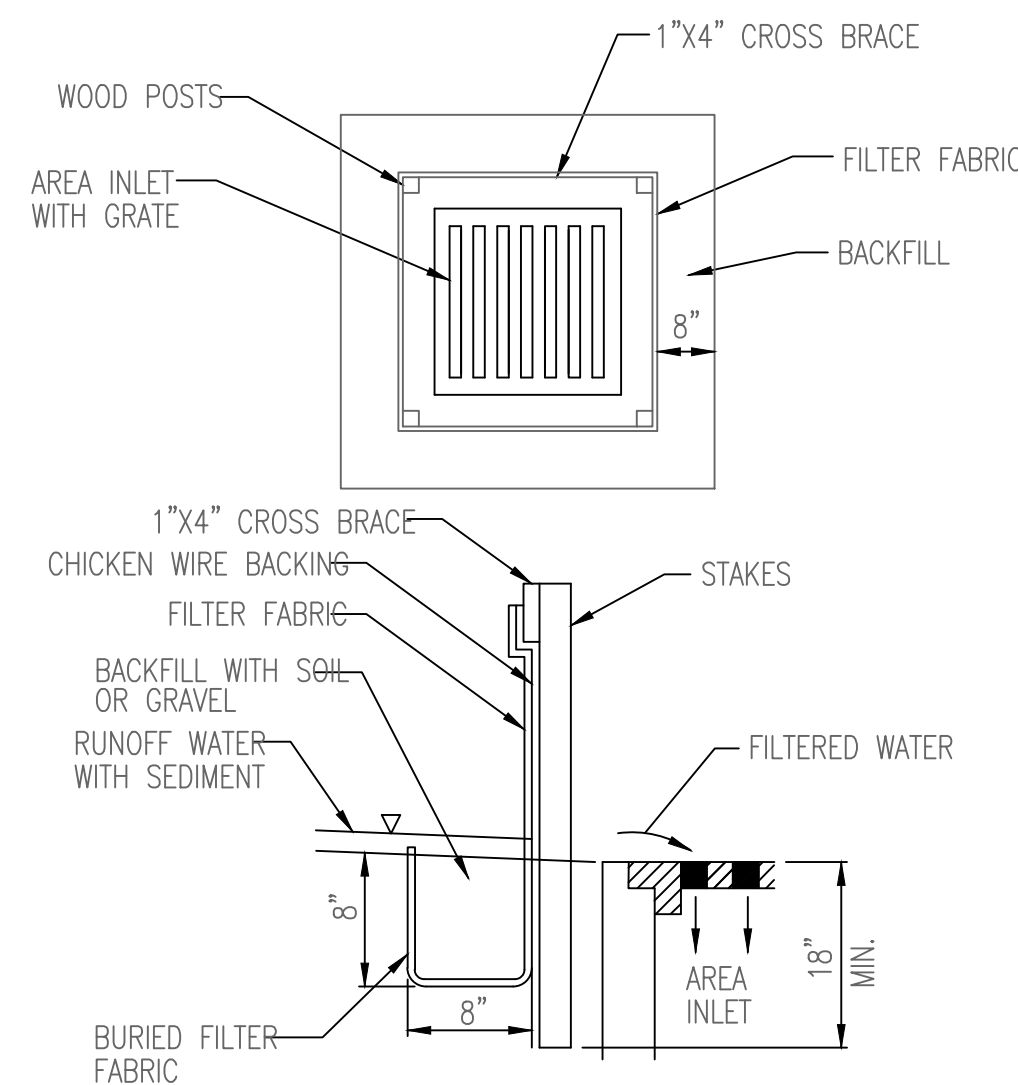
**LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:**

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK-NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM. DO NOT PLACE SILT FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW. DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW. FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS. DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON TOP OF THE FENCE. DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

**INSPECTION AND MAINTENANCE:**

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW AROUND THE DITCH CHECK?
- DOES WATER FLOW UNDER THE DITCH CHECK?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



SILT FENCE BARRIERS FOR AREA INLETS  
(INLET PROTECTION)

**MATERIAL SPECIFICATION:**

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS. SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**PLACEMENT:**

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME. WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

**PROPER INSTALLATION METHOD:**

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE. DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET. THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM. CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING. ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

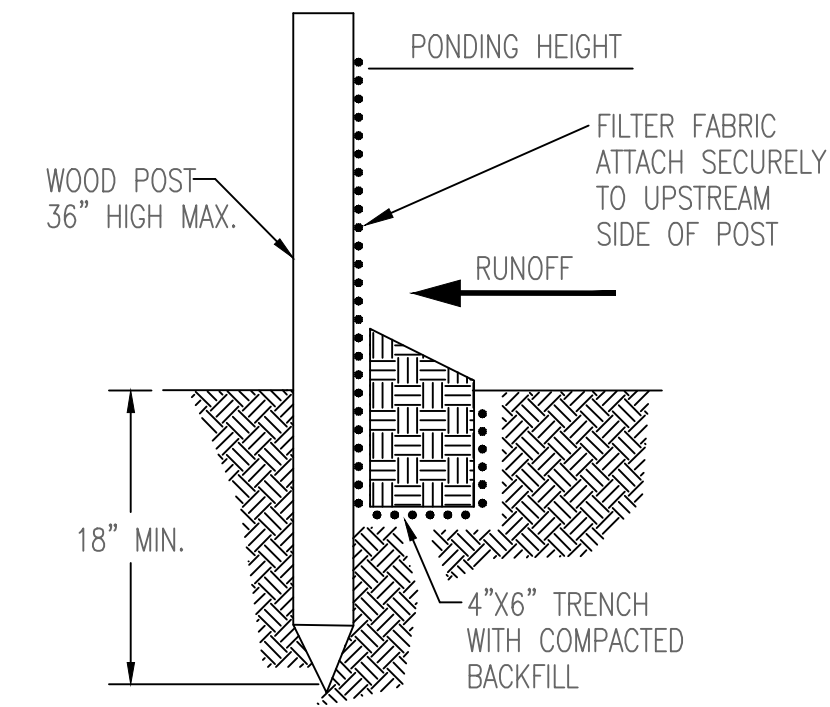
**LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:**

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET-NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

**INSPECTION AND MAINTENANCE:**

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW UNDER THE SILT FENCE?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

**MATERIAL SPECIFICATION:**

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**PLACEMENT:**

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

**PROPER INSTALLATION METHOD:**

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:**

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES. DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT. SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND-SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

**INSPECTION AND MAINTENANCE:**

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DO THE SILT FENCES SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

**CITY OF WICHITA**  
PUBLIC WORKS & UTILITIES  
ENGINEERING DIVISION

*SILT FENCE DITCH CHECK AND BARRIER DETAILS*

CITY ENGINEER		
<b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER	OCA NUMBER	DATE
		11/2010
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		

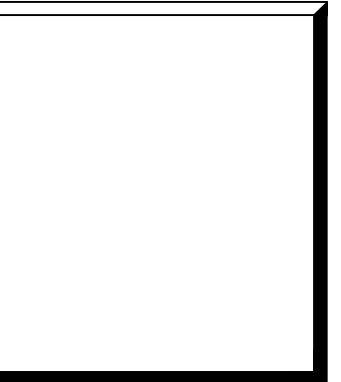
SW-502

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

KEM NO. 13068  
DESIGN GP  
DRAWN GP

DATE	DESCRIPTION
07/27/13	REVISION #1
08/15/13	REVISION PER PLAN REVIEWS

**11317 EAST 13th. STREET NORTH, WICHITA, KS 67206**



**RODGER A. BROOKS / ARCHITECT**  
180 PAINBOW DR. #6070, LIVINGSTON, TX 77399-1089  
316.724.5526 fax: 888.846.0243 brooksarch@aol.com

PROJECT NUMBER  
**08815**  
WICHITA, KS

ISSUE DATE  
**06.03.13**

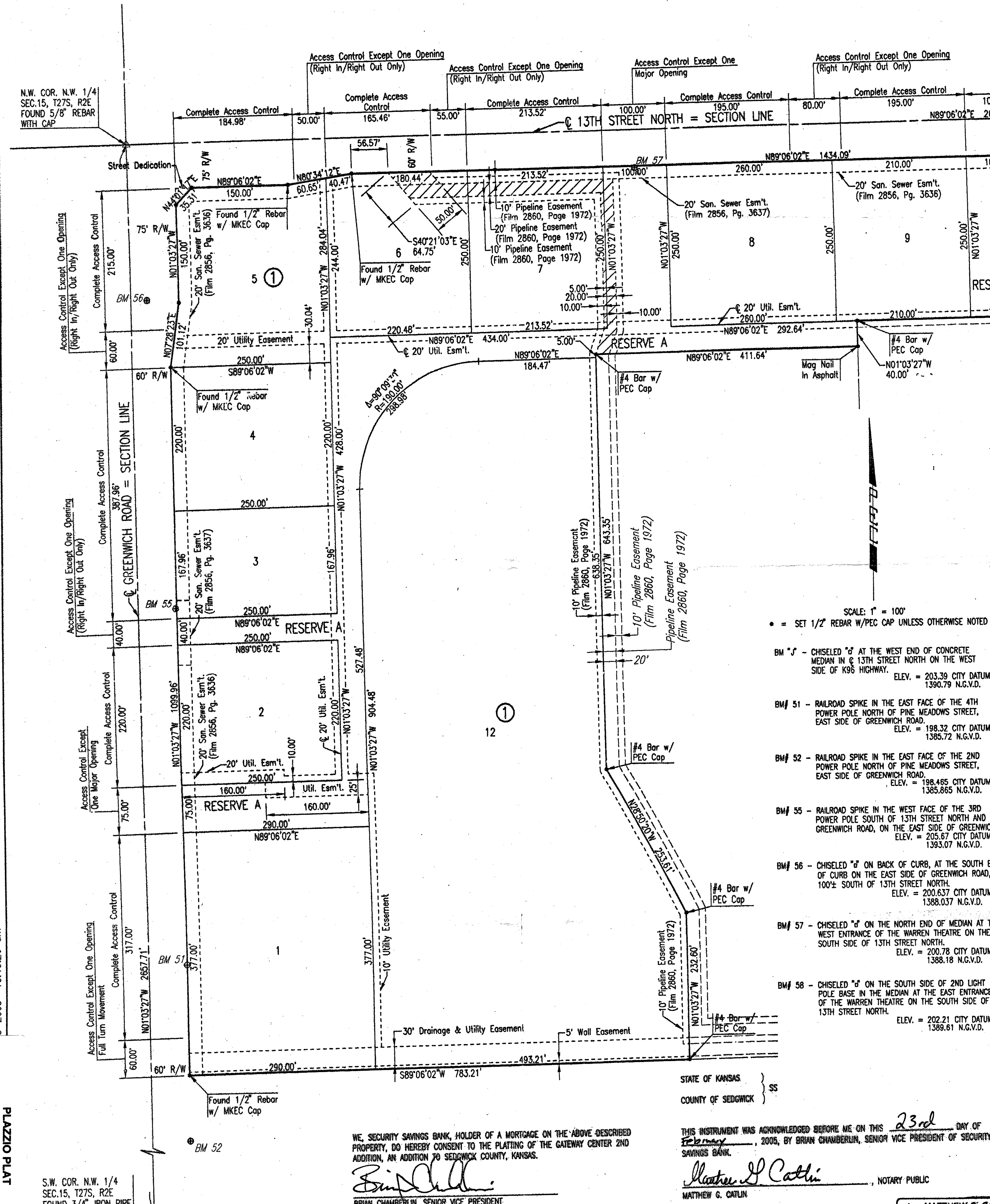
0185 PPD  
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# THE GATEWAY CENTER 2ND ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

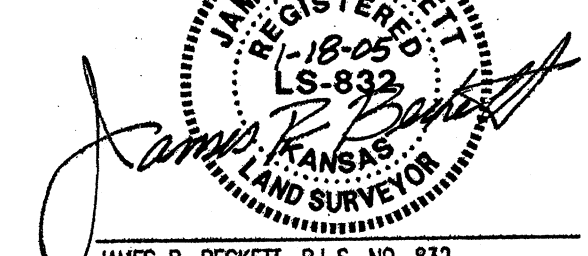


STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

WE, PROFESSIONAL ENGINEERING CONSULTANTS, P.A., ENGINEERS AND SURVEYORS IN AFORESAID STATE AND COUNTY, DO HEREBY CERTIFY THAT OF THIS 23rd DAY OF February, 2005, WE HAVE SURVEYED AND PLATTED THE GATEWAY CENTER 2ND ADDITION, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS, INTO LOTS, BLOCKS, STREETS, AND RESERVES; THE SAME BEING A REPLAT OF AND DESCRIBED AS FOLLOWS:

LOTS 1 THROUGH 11, BLOCK 1, THE GATEWAY CENTER ADDITION, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS, AND LOT 12, BLOCK 1, IN SAID ADDITION, EXCEPT THAT PORTION DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF LOT 12; THENCE BEARING S89°06'02\"/>

ALL PUBLIC EASEMENTS LYING WITHIN THE ABOVE DESCRIBED TRACT OF LAND ARE HEREBY VACATED AND REPLATTED BY VIRTUE OF KSA 12-512(b) AMENDED.



JAMES R. BECKETT, R.L.S. NO. 832  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
THIS ADDITION IS SUBJECT TO THE CONDITIONS OF THE GATEWAY CENTER ADDITION COMMUNITY UNIT PLAN (OP-239).

EASEMENTS FOR THE CONSTRUCTION AND MAINTENANCE OF PUBLIC UTILITIES AND DRAINAGE ARE HEREBY GRANTED.

THE 25'X25' CORNER CLIP STREET DEDICATION AT THE CORNER OF GREENWICH ROAD AND 13TH ST. NORTH IS HEREBY DEDICATED TO AND FOR THE USE OF THE PUBLIC.  
RESERVES "A" AND "B" ARE HEREBY PLATTED FOR PRIVATE DRIVES, LANDSCAPING, SIGNAGE, ENTRY MONUMENTS, DRAINAGE, SIDEWALKS, AND UTILITIES CONFINED TO EASEMENTS. RESERVE "C" IS HEREBY PLATTED FOR LANDSCAPING, SIGNAGE, AND UTILITIES CONFINED TO EASEMENTS. RESERVES "A", "B" AND "C" SHALL BE OWNED AND MAINTAINED BY AN OWNER'S ASSOCIATION TO BE FORMED WITHIN THE GATEWAY CENTER 2ND ADDITION.

THE 5' WALL EASEMENT ALONG SOUTH LINE OF LOTS 1 AND 12, BLOCK 1, AS SHOWN, IS HEREBY PLATTED FOR THE CONSTRUCTION AND MAINTENANCE OF A PRIVATE WALL. UTILITIES MAY CROSS THE WALL EASEMENT.

RESERVE "A" IS HEREBY PLATTED FOR ACCESS TO LOTS 1 THROUGH 8, BLOCK 1, AND RESERVE "B" IS HEREBY PLATTED FOR ACCESS TO LOTS 9 AND 10, BLOCK 1. THE 20' ACCESS EASEMENT ACROSS THE SOUTH SIDE OF LOT 10 IS HEREBY PLATTED FOR ACCESS TO LOT 11.

ALL ABUTTER'S RIGHT OF ACCESS TO AND FROM 13TH ST. NORTH OVER AND ACROSS THE NORTH PROPERTY LINE AND TO AND FROM GREENWICH ROAD OVER AND ACROSS THE WEST PROPERTY LINE IS HEREBY GRANTED TO THE CITY OF WICHITA. PROVIDED HOWEVER THAT THERE SHALL BE ACCESS TO 13TH STREET NORTH AT FIVE LOCATIONS AS SHOWN, AND ACCESS TO GREENWICH ROAD AT FOUR LOCATIONS AS SHOWN.

A DRAINAGE PLAN HAS BEEN APPROVED FOR THIS PLAT. ALL DRAINAGE EASEMENTS AND RIGHTS-OF-WAY SHALL REMAIN AT ESTABLISHED GRADES AND UNOBSTRUCTED TO ALLOW FOR THE CONVEYANCE OF STORM WATER, UNLESS MODIFIED WITH THE APPROVAL OF THE CITY ENGINEER.

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS  
THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 23rd DAY OF February, 2005, BY BRIAN CHAMBERLIN, SENIOR VICE PRESIDENT OF SECURITY SAVINGS BANK.  
*Brian Chamberlin*  
BRIAN CHAMBERLIN, SENIOR VICE PRESIDENT  
MATTHEW G. CATLIN  
MATTHEW G. CATLIN  
My App. Expires 12/27/2005  
MY APPOINTMENT EXPIRES: 12/27/2005

WE, SECURITY SAVINGS BANK, HOLDER OF A MORTGAGE ON THE ABOVE DESCRIBED PROPERTY, DO HEREBY CONSENT TO THE PLATTING OF THE GATEWAY CENTER 2ND ADDITION, AN ADDITION TO SEDGWICK COUNTY, KANSAS.  
*Brian Chamberlin*  
BRIAN CHAMBERLIN, SENIOR VICE PRESIDENT

KNOW ALL MEN BY THESE PRESENTS THAT WE, THE UNDERSIGNED PROPERTY OWNERS OF THE LAND AS ABOVE SET FORTH IN THE SURVEYOR'S CERTIFICATE, HAVE CAUSED THE LAND TO BE SURVEYED AND PLATTED INTO LOTS, BLOCKS, STREETS, AND RESERVES; THE SAME TO BE KNOWN AS THE GATEWAY CENTER 2ND ADDITION, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS.

OWNER:  
GATEWAY CENTER, L.L.C.  
A RICHIE DEVELOPMENT CORPORATION  
*Kevin M. Mullen*  
KEVIN M. MULLEN, PRESIDENT

VENTURE SEVEN DEVELOPMENT, L.L.C.  
*George E. Laham, II*  
GEORGE E. LAHAM, II, MANAGER

GATES, REAL ESTATE, L.L.C.  
*Walter E. Gates*  
WALTER E. GATES, MEMBER

WICHITA LODGING, L.L.C.  
*James E. Korroch*  
JAMES E. KORROCH, MEMBER

GATEWAY CENTER ADDITION MASTER OWNERS' ASSOCIATION  
*George E. Laham, II*  
GEORGE E. LAHAM, II, PRESIDENT

WASABI, L.L.C.  
*Young Boon Yams*  
YOUNG BOON YAMS, PRESIDENT

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 26th DAY OF January, 2005, BY KEVIN M. MULLEN, PRESIDENT OF GATEWAY CENTER, L.L.C. A RICHIE DEVELOPMENT CORPORATION.  
*Angie M. Holden*  
ANGIE M. HOLDEN, NOTARY PUBLIC

MY APPOINTMENT EXPIRES: 7-25-07  
*Angie M. Holden*  
ANGIE M. HOLDEN  
My App. Expires 07-25-07

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 29th DAY OF January, 2005, BY GEORGE E. LAHAM, II, MANAGER OF VENTURE SEVEN DEVELOPMENT, L.L.C.  
*Carly Erickson*  
CARLY ERICKSON, NOTARY PUBLIC

MY APPOINTMENT EXPIRES:  
*Carly Erickson*  
CARLY ERICKSON  
My App. Expires 08-10-2007

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 26th DAY OF January, 2005, BY WALTER E. GATES, MEMBER OF GATES REAL ESTATE, L.L.C.  
*Linda G. Wyatt*  
LINDA G. WYATT, NOTARY PUBLIC

MY APPOINTMENT EXPIRES: August 10, 2007  
*Linda G. Wyatt*  
LINDA G. WYATT  
My App. Expires 08-10-2007

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 1st DAY OF February, 2005, BY JAMES E. KORROCH, MEMBER OF WICHITA LODGING, L.L.C.  
*Sue M. Christians*  
SUE M. CHRISTIANS, NOTARY PUBLIC

MY APPOINTMENT EXPIRES: 11/5/06  
*Sue M. Christians*  
SUE M. CHRISTIANS  
My App. Expires 11/5/06

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 24th DAY OF January, 2005, BY GEORGE E. LAHAM, II, PRESIDENT OF GATEWAY CENTER ADDITION MASTER OWNERS' ASSOCIATION.  
*Cathy Erickson*  
CATHY ERICKSON, NOTARY PUBLIC

MY APPOINTMENT EXPIRES:  
*Cathy Erickson*  
CATHY ERICKSON  
My App. Expires 08-10-2007

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 15th DAY OF February, 2005, BY YOUNGBOON YAMS, PRESIDENT OF WASABI, L.L.C.  
*Andrew J. Nolan*  
ANDREW J. NOLAN, NOTARY PUBLIC

MY APPOINTMENT EXPIRES:  
*Andrew J. Nolan*  
ANDREW J. NOLAN  
My App. Expires 01-29-2007

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 22nd DAY OF February, 2005, BY MICHAEL D. BABICH, PRESIDENT-WICHITA OF EQUITY BANK, N.A.  
*Tania Lewis*  
TANIA LEWIS, NOTARY PUBLIC

MY APPOINTMENT EXPIRES: June 9, 2007  
*Tania Lewis*  
TANIA LEWIS  
My App. Expires 06-09-07

THIS PLAT OF THE GATEWAY CENTER 2ND ADDITION HAS BEEN SUBMITTED TO AND APPROVED BY THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, WICHITA, KANSAS.

DATED THIS 23rd DAY OF December, 2005.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION  
*John L. Schlegel*  
JOHN L. SCHLEGEL, SECRETARY

REVIEWED IN ACCORDANCE WITH K.S.A. 58-2005 ON THIS 7th DAY OF February, 2005.  
*Tricia L. Robello*  
TRICIA L. ROBELLO, DEPUTY COUNTY SURVEYOR

THIS PLAT IS APPROVED AND ALL DEDICATIONS SHOWN HEREON, IF ANY ARE ACCEPTED BY THE CITY COUNCIL OF THE CITY OF WICHITA, KANSAS, THIS 29th DAY OF January, 2005.  
*Carlos Minnis*  
CARLOS MINNIS, MAYOR

THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT 11:06:27 A.M. ON THE 23rd DAY OF February, 2005.  
*Kevin Sublett*  
KEVIN SUBLETT, CITY CLERK

ENTERED ON TRANSFER RECORD THIS 11th DAY OF April, 2005.  
*Don Brace*  
DON BRACE, COUNTY CLERK

THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT 11:06:27 A.M. ON THE 23rd DAY OF February, 2005.  
*Bill Weck*  
BILL WECK, REGISTER OF DEEDS

THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT 11:06:27 A.M. ON THE 23rd DAY OF February, 2005.  
*George Brinkman*  
GEORGE BRINKMAN, DEPUTY

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT 11:06:27 A.M. ON THE 23rd DAY OF February, 2005.  
*George Brinkman*  
GEORGE BRINKMAN, DEPUTY

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

