

GENERAL NOTES:

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:
KANSAS ONE-CALL 687-2470
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
AT&T 1-800-246-8464
BLACK HILLS ENERGY 1-800-694-8989
CITY OF WICHITA WATER & SEWER 1-316-219-8921
CITY OF WICHITA STORMWATER 1-316-268-4090
CITY OF WICHITA TRAFFIC 1-316-268-4034
COX COMMUNICATIONS 1-888-249-3530
KANSAS GAS SERVICE 1-888-482-4950
WESTAR ENERGY 1-800-544-4857
- UTILITY SERVICE LINES, POLES, ETC. 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.
- 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, IN THE OPINION OF THE ENGINEER, THAT 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 WILL 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 WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- 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 CITY ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
- 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 HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FINAL GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE CONSULTANT ENGINEER AND TOM MASON WITH THE CITY AT 316-268-4574 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, BRIAN COON AT TRAFFIC@WICHITA.GOV BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL ELEVATIONS SHOWN ARE NAVD 88.
- ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.

- ANY SIDEWALK, DRIVE APPROACH, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
- CITY MAINTENANCE OF STORM SEWER ENDS AT THE LAST STRUCTURE IN THE EASEMENT OR RIGHT-OF-WAY.
- A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUND SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP TO THE MANHOLE.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- THE INSPECTING FIRM SHALL SUBMIT TO THE CITY STORMWATER MAINTENANCE DIVISION A DIGITAL COPY OF THE CCTV INSPECTION OF THE CONDUITS AND STRUCTURES FOLLOWING CONSTRUCTION. THE DIGITAL FILE FORMATION SHALL BE COMPATIBLE WITH THE CITY INPUT TEMPLATE. A COPY OF THE TEMPLATE IS AVAILABLE UPON REQUEST AT 316-268-4090.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
- SITE RESTORATION AND PREPARATION SHALL BE SUBSIDIARY TO THE PROJECT.
- THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT ERODED SOIL FROM ENTERING DITCHES, CULVERTS AND DRAINAGE AREAS. THE CONTRACTOR SHALL FOLLOW THE INTENT OF THE BMP'S WHICH ACT AS A GUIDELINE.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING A PROPOSAL IN ORDER TO BECOME BETTER INFORMED OF THE EXISTING FIELD CONDITIONS AND OBSTACLES WHICH MIGHT BE ENCOUNTERED DURING CONSTRUCTION. EACH BIDDER SHOULD UNDERSTAND THAT NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR EXTRA WORK THAT SHOULD HAVE BEEN EVALUATED PRIOR TO BIDDING.
- THE PRECAST MANUFACTURER SHALL PROVIDE A SEALED DESIGN DETAIL FOR ALL PRECAST ITEMS USED ON THE PROJECT TO INSURE THE INTENT OF THE PLANS ARE MET.

SAFETY NOTICE TO CONTRACTOR
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTINGUOUS BASIS AT THE SITE.

CAUTION - NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

LEGAL DESCRIPTION
A PORTION OF LOT 7, BLOCK A, MAIZE & 29TH COMMERCIAL ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS, RECORDED AT THE REGISTER OF DEEDS OFFICE OF SAID COUNTY IN FLM-PG: 29377030, BEING DESCRIBED AS FOLLOWS:
COMMENCING AT THE NORTHWEST CORNER OF SAID LOT 7; THENCE ON AN ASSUMED BEARING OF N 88°41'48" E, ALONG THE NORTH LINE OF SAID LOT 7, A DISTANCE OF 259.90 FEET TO THE POINT OF BEGINNING; THENCE N 88°41'48" E, CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 476.57 FEET; THENCE S 58°41'29" E, CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 197.69 FEET TO THE NORTHEAST CORNER OF SAID LOT 7; THENCE S 01°24'12" E, ALONG THE EAST LINE OF SAID LOT 7, A DISTANCE OF 279.73 FEET TO THE SOUTHEAST CORNER OF SAID LOT 7; THENCE S 88°23'50" W, ALONG THE SOUTH LINE OF SAID LOT 7, A DISTANCE OF 577.76 FEET; THENCE N 01°18'12" W A DISTANCE OF 152.09 FEET; THENCE S 88°41'48" W A DISTANCE OF 62.00 FEET; THENCE N 01°18'12" W A DISTANCE OF 242.95 FEET TO THE POINT OF BEGINNING.

STORM SEWER IMPROVEMENTS
to serve
LOT 7, BLOCK A, MAIZE & 29TH COMMERCIAL ADDITION
3210 N MAIZE ROAD
CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer
Project Number
0465 PPD (133119)

AS BUILT PLANS
Contractor: Mies Construction
Inspector: Fred Smith, Baughman Co.
As Built by: KEK, 4/5/18

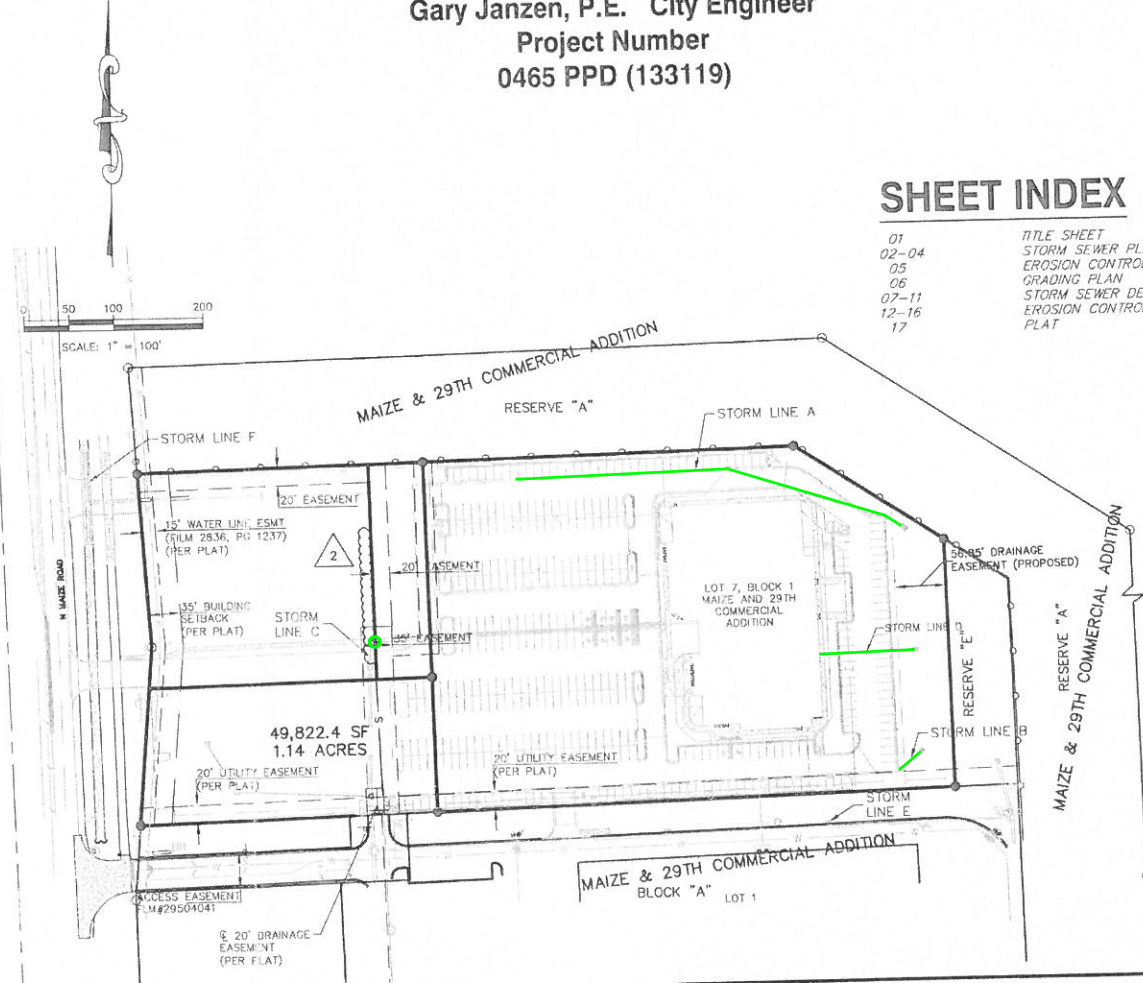


SHEET INDEX

01	TITLE SHEET
02-04	STORM SEWER PLAN AND PROFILE
05	EROSION CONTROL PLAN
06	GRADING PLAN
07-11	STORM SEWER DETAILS
12-16	EROSION CONTROL BMP DETAILS
17	PLAT

VICINITY MAP

Stormwater Certification:
New Development
These construction plans were prepared in accordance with the current Stormwater Management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.
Disturbed Area = 233,212 SF (5.35 ACRES ±)
Water Quality Treatment: OFFSITE BMP PROGRAM
Downstream Channel Protection: N/A
Detention: EXISTING REGIONAL DETENTION PONDS IN RESERVE "A-E", MAIZE & 29TH COMMERCIAL ADDITION. The BMP used for this development is: OFFSITE BMP PROGRAM.



THE COORDINATES PROVIDED IN THESE PLANS ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN IN THE TABLE HEREON BEFORE CONSTRUCTION.

THIS PLAN SHEET IS PART OF AN OVERALL KAW VALLEY ENGINEERING PLAN SET FOR THE SPECIFIC IMPROVEMENTS CONTEMPLATED THEREIN. AS SUCH, THE INFORMATION CONTAINED MAY BE LIMITED AND SHOULD ONLY BE INTERPRETED WITHIN THE CONTEXT OF THE COMPLETE PLAN SET.

BENCHMARKS

DATUM BENCHMARK:
VERTICAL DATUM IS NAVD 88 ESTABLISHED USING OPUS PROJECTS ON PROJECT CONTROL.
BENCHMARKS:
BM#1: CHISELED "+" AT NORTH CAP BOLT OF FIRE HYDRANT, NORTH SIDE ENTRANCE ROAD, 35± NORTH AND 75± WEST OF THE NORTHWEST CORNER OF SAMS. ELEV=1359.08
BM#2: CHISELED "SQUARE" AT NORTHWEST CORNER OF CONCRETE PAD WITH IRRIGATION PUMP AT SOUTHEAST CORNER OF SITE. ELEV=1355.92

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS ENGINEERING AND STORMWATER DIVISION
Engineering: *Johnnie Kullman* 1-9-18
Stormwater: *Joe Hilde* 1-25-18

NOTE TO CONTRACTORS

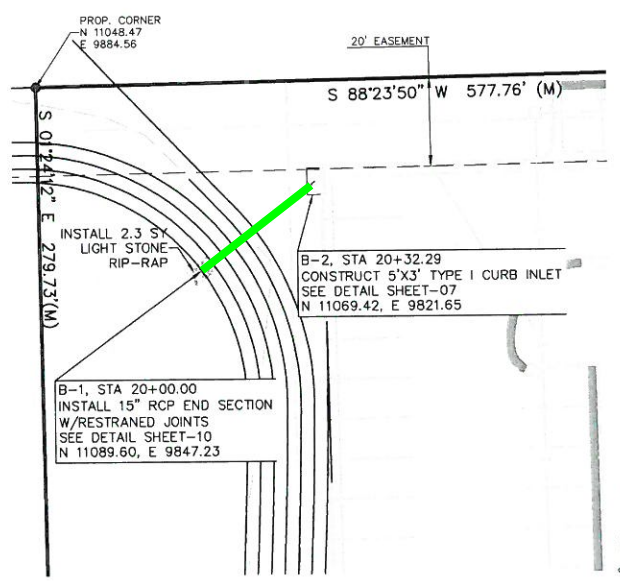
Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the state of Kansas. No work shall be performed by the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineering. All Construction and Materials shall comply with the current City of Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).

An approved copy of these plans signed by City staff are required on-site.

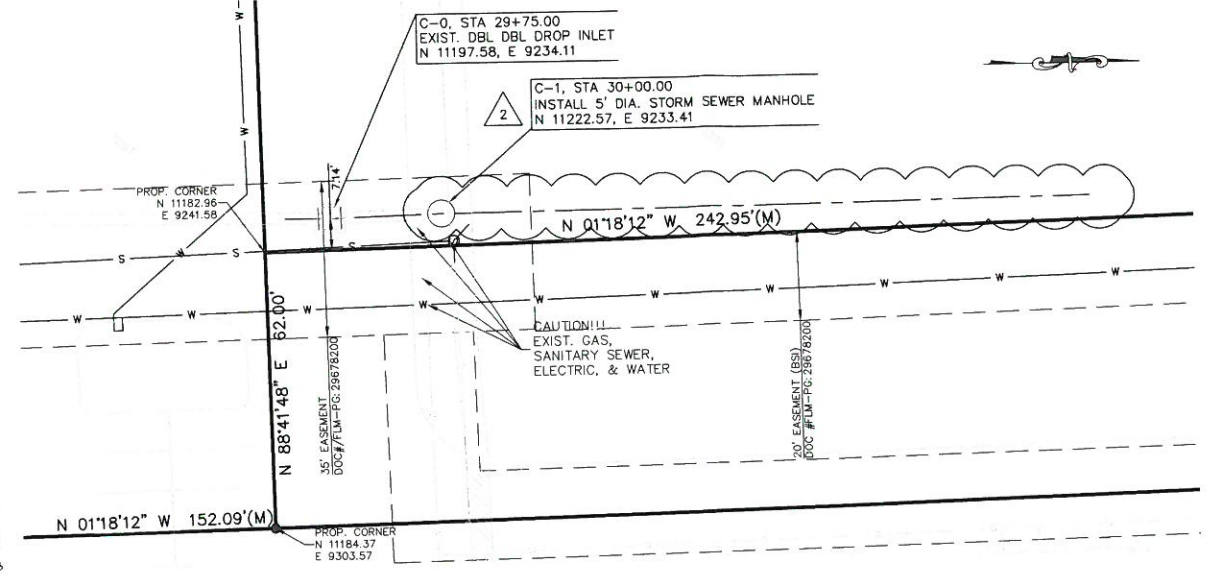
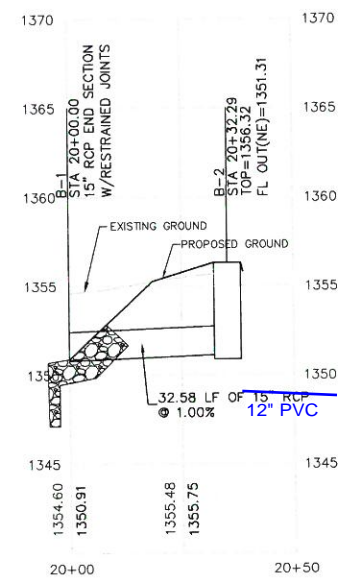
JANUARY 2018

PROJ. NO. G17_0460 DSN: SRS
CFN: 0460PPD DWN: JSB
200 N. EMPORIA, SUITE 100
WICHITA, KANSAS 67202
PH. (316) 440-4304 | FAX (316) 440-4309
www.kveng.com | www.kveng.com
KAW VALLEY ENGINEERING

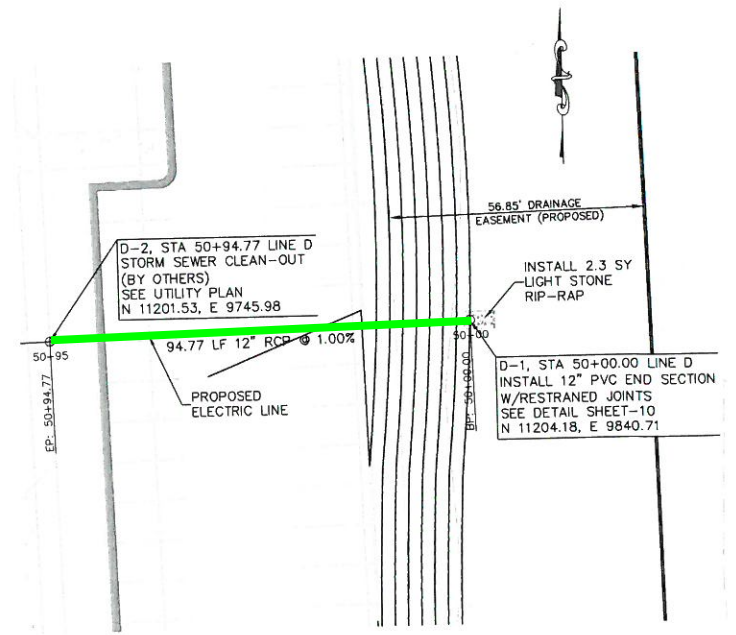
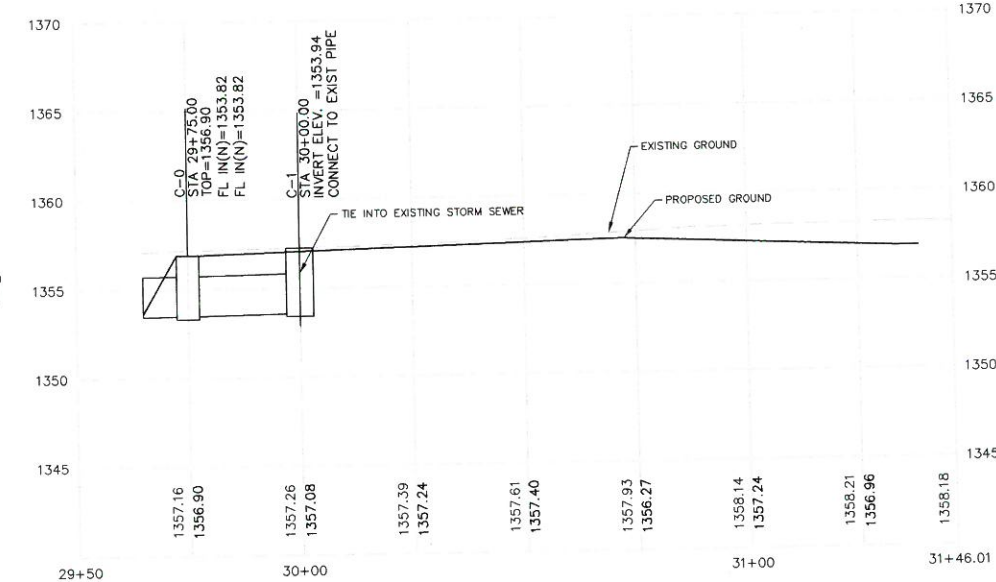




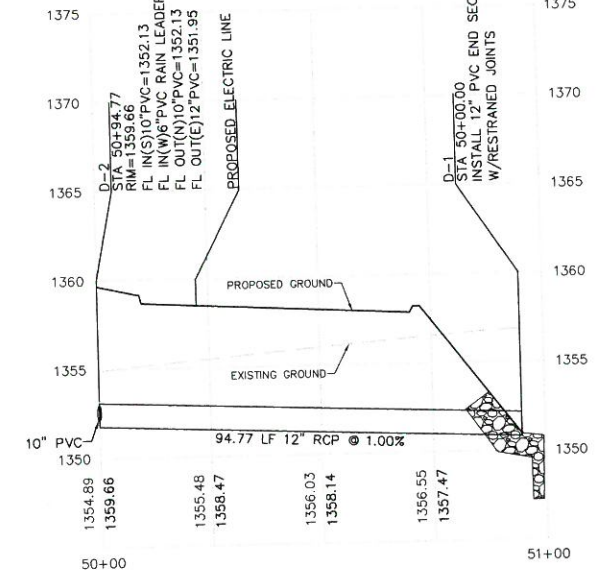
STORM SEWER LINE B



STORM SEWER LINE C



STORM SEWER LINE D



SCALE: 1" = 20'
1" = 5' VERT. PROFILE SCALING

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TRA	CHK
JSB	TRA
SRS	EAM
SRS	TRA
SRS	TRA
DSN	CHK

OWNER REVIEW FOR CONSTRUCTION	DATE	DESCRIPTION
11-17-17	7-24-17	SUBMITTAL TO C.O.W.
6-7-17	6-7-17	65% SUBMITTAL

SCOTT R. SERVIS
ENGINEER
KS # 17874

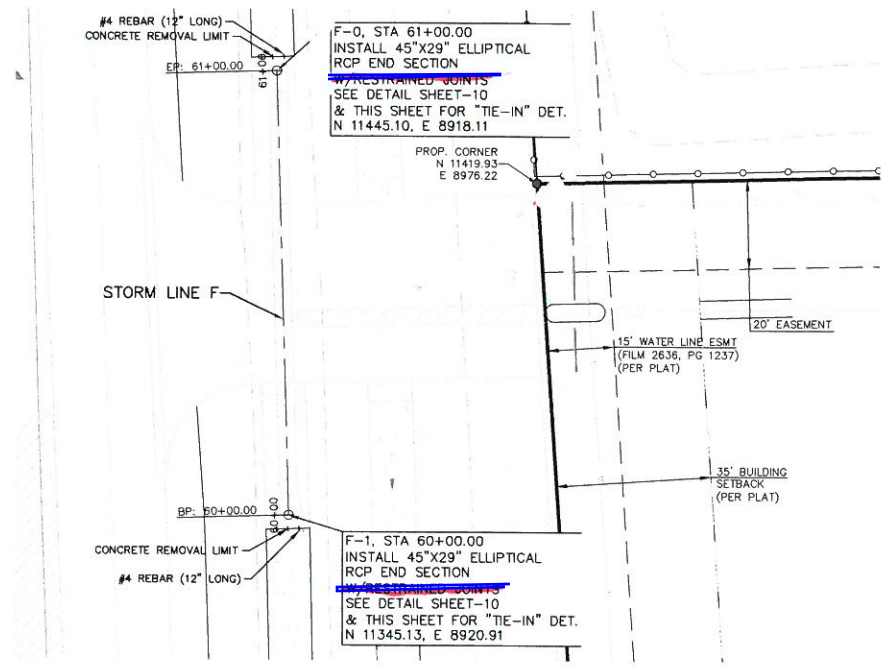
200 N. EMPORIA, SUITE 100
WICHITA, KANSAS 67201-4400
PH. (316) 442-4400
www.kawvalley.com | www.kve.com

KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF KANSAS. CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/18

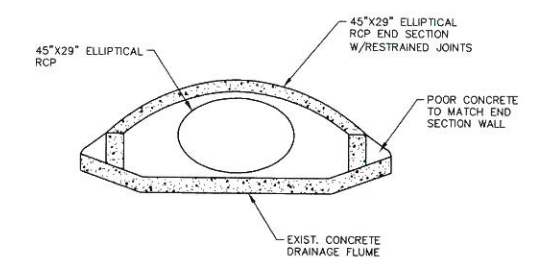
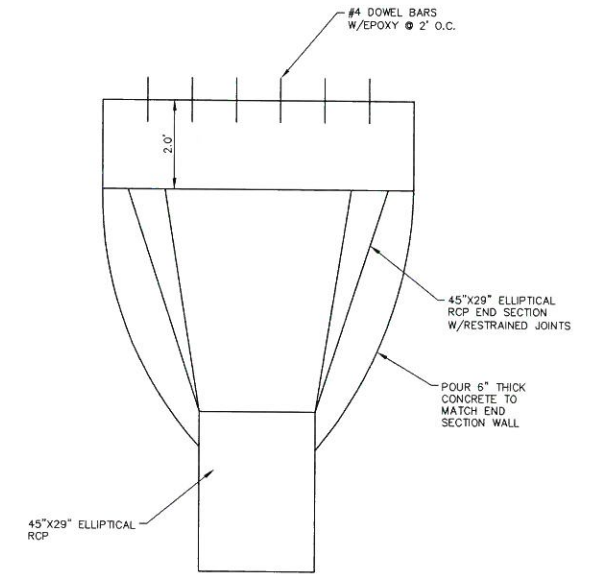
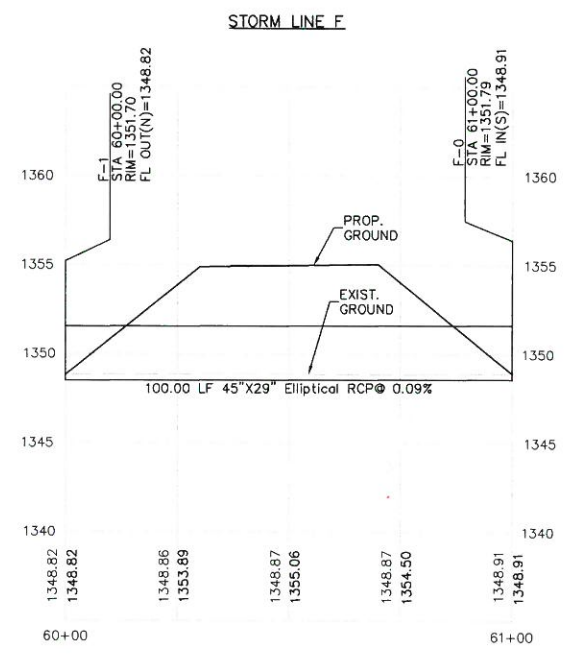
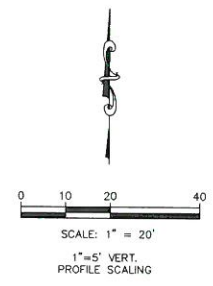
LIFE CHURCH WEST CAMP.
3210 N MAIZE RD.
WICHITA, KS

STORM SEWER PLAN & PROFILE

PROJ. NO.	G17_0460
DESIGNER	SRS
DRAWN BY	EAM
CFN	0460PPP
SHEET	03
REV	2



CONTRACTOR SHALL OBTAIN A PERMIT TO INSTALL STORM SEWER PIPE IN MAIZE ROAD RIGHT-OF-WAY PRIOR TO CONSTRUCTION.



PIPE END SECTION TO CONCRETE FLUME TIE-IN DETAIL

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2 11-17-17 OWNER REVIEW FOR CONSTRUCTION

1 7-24-17 SUBMITTAL TO C.O.W.

0 6-7-17 65% SUBMITTAL

REV DATE DESCRIPTION

DSN DWN CHK

SCOTT R. SERVIS
ENGINEER
KS # 17874

KVE

KAW VALLEY ENGINEERING

200 N. EMPORIA, SUITE 100
WICHITA, KANSAS 67202
PH. (316) 440-4304 | FAX (316) 440-4309
www.kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/16

LIFE CHURCH WEST CAMP,
3210 N MAIZE RD.
WICHITA, KS

STORM SEWER PLAN & PROFILE

PROJ. NO. G17_0460

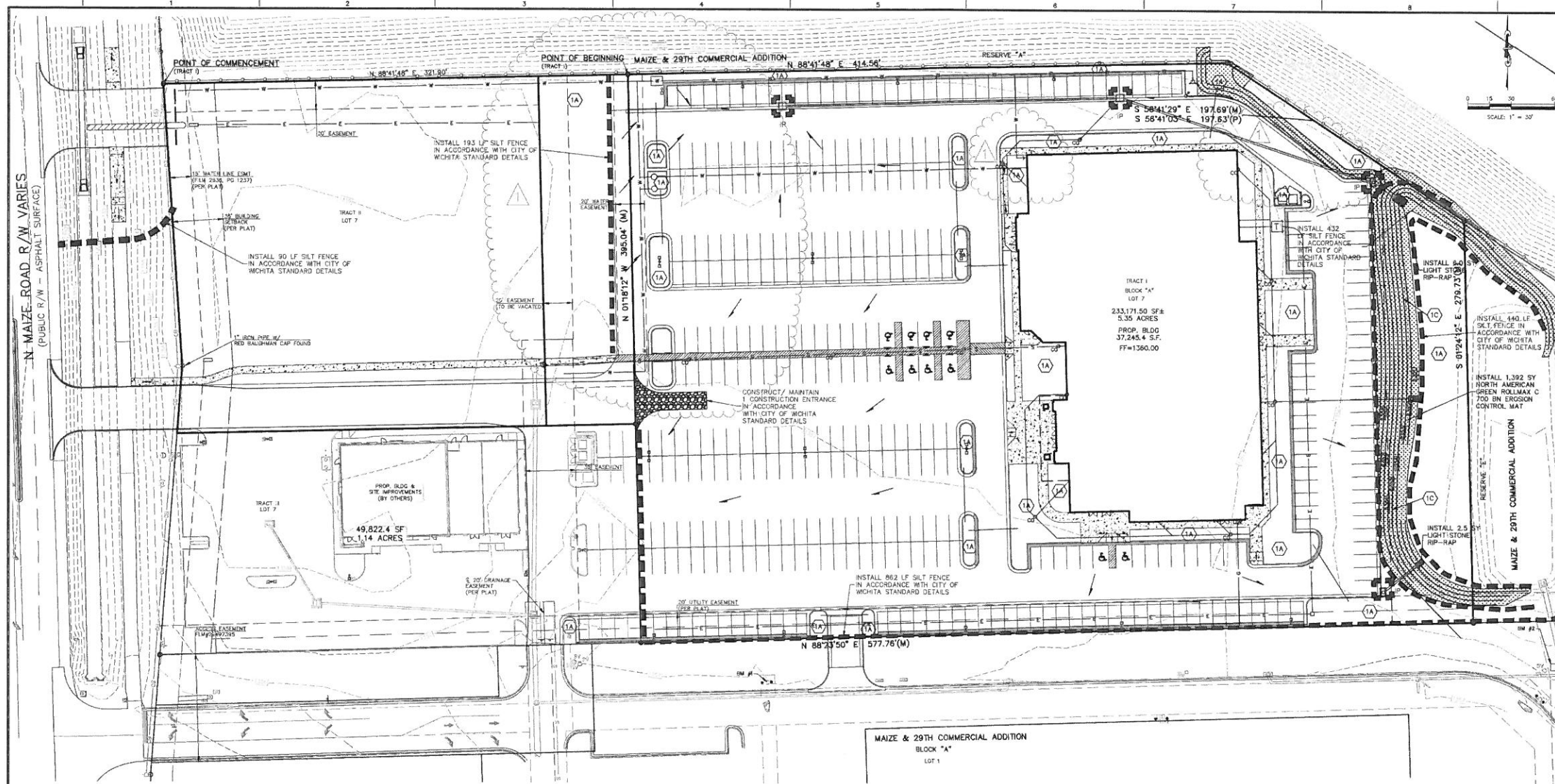
DESIGNER SRS DRAWN BY EAM

CFN

SHEET 0460DPP REV

04

2



NOTES:

SCALE: 1" = 30'

KEY PLAN

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- GENERAL NOTES:**
- PROPERTY LINE IS LIMITS OF CONSTRUCTION EXCEPT AS SHOWN.
 - THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
 - THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
 - ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
 - A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
 - SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
 - CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE IN ACCORDANCE WITH CITY OF WICHITA, CURB INLET SEDIMENTATION PROTECTION DETAILS.
 - SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
 - RRIPRAP IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (I.E. CULVERT OUTLETS).
 - CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
 - THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
 - TEMPORARY SEDIMENT FENCE TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
 - MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
 - INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.

- INSTALL CONSTRUCTION ENTRANCE AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.
- AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEED, SOODED, OR LANDSCAPED AS SHOWN ON THE LANDSCAPE PLAN WITHIN 14 DAYS.
- TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
- STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
- ROCK LINING (RRIPRAP) SHALL BE DURABLE STONE CONTAINING A COMBINED TOTAL OF NOT MORE THAN 10 PERCENT OF EARTH, SAND, SHALE AND NON-DURABLE ROCK. AT LEAST 80 PERCENT OF THE MASS SHALL BE OF PIECES HAVING A MINIMUM WEIGHT OF 150 POUNDS OR MORE PER CUBIC FOOT.
- THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
- GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
- ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
- EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.
- MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED, CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON-DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
- EROSION CONTROL SEDIMENT FENCE TO BE INSTALLED 1'-0" BEHIND CURB & OUTER UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM LOT DRAIN TOWARDS CURB. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

- NOTES:**
- 1A SEEDED LANDSCAPE AREA (SEE CONSTR. PLANS)
 - 1C NORTH AMERICAN GREEN ROLLMAX C 700 BN EROSION CONTROL MAT

- EROSION & PROPOSED IMPROVEMENTS LEGEND:**
- 10000 PROPOSED GROUND CONTOUR
 - 10000 EXISTING GROUND CONTOUR (1' INTERVALS)
 - PROPOSED FLOW ARROW
 - SILT FENCE (APPROX. 1,927 LF, INSTALL PER EROSION CONTROL DETAILS)
 - INLET PROTECTION (4 EA., INSTALL PER EROSION CONTROL DETAILS)
 - NORTH AMERICAN GREEN ROLLMAX C 700 BN EROSION CONTROL MAT
- THIS PLAN SHEET IS PART OF AN OVERALL KAW VALLEY ENGINEERING PLAN SET FOR THE SPECIFIC IMPROVEMENTS CONTEMPLATED THEREIN. AS SUCH, THE INFORMATION CONTAINED MAY BE LIMITED AND SHOULD ONLY BE INTERPRETED WITHIN THE CONTEXT OF THE COMPLETE PLAN SET.

DATUM BENCHMARK:
VERTICAL DATUM IS NAVD 88 ESTABLISHED USING OPUS PROJECTS ON PROJECT CONTROL.

BENCHMARKS:
BM #1: CHISELED "X" AT NORTH CAP BOLT OF FIRE HYDRANT, NORTH SIDE ENTRANCE ROAD, 35'± NORTH AND 75'± WEST OF THE NORTHWEST CORNER OF SANS. ELEV=1359.08
BM #2: CHISELED "SQUARE" AT NORTHWEST CORNER OF CONCRETE PAD WITH IRRIGATION PUMP AT SOUTHEAST CORNER OF SITE. ELEV=1355.92

Revision	Date	By
1	12/11/17	TON ANDREAS FORIHA, RLA
2		
3		
4		
5		
6		
7		
8		
9		

Landscape Architects:

Ton Andreas Foriha, RLA
Registered Landscape Architect
Wichita, Kansas
620-262-7208

Civil Engineers:

KAW VALLEY ENGINEERING, INC.
Professional Engineering Firm
1000 S. W. 10th St., Suite 100
Wichita, Kansas 67202
Tel: 620-262-7208 Fax: 620-262-7209
www.kawvalleyeng.com

MEP Engineers:

wallace
Wallace Engineering, Inc.
1000 S. W. 10th St., Suite 100
Wichita, Kansas 67202
Tel: 620-262-7208 Fax: 620-262-7209
www.wallaceeng.com

Structural Engineers:

SMALL ARCHITECTS
The Small Group, LLC
108 South Broadway
Edmond, Oklahoma 73034
405.840.1111 (T)
405.840.1191 (F)

EROSION CONTROL PLAN

LIFE.CHURCH WEST WICHITA, KS CAMPUS

Date: JULY 21, 2017
Project No.: 17-00111
Drawing No.: C-6

Submitted: 10/10/2017
Checked: TRA
Drawn: EAM
Location: Wichita, Kansas

REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	DRAWN BY
2	11-17-17	OWNER REVIEW FOR CONSTRUCTION	SRS	JSB	TRA
1	7-24-17	SUBMITTAL TO C.O.W.	SRS	EAM	TRA
0	6-7-17	65% SUBMITTAL	SRS	JSB	TRA
					DSN
					DWN
					CHK

SCOTT R. SERVIS
ENGINEER
KS # 17874

200 N. EUROPA, SUITE 100
WICHITA, KANSAS 67202
PH. (316) 440-4304 | FAX (316) 440-4309
www.kawvalleyeng.com | www.living.com

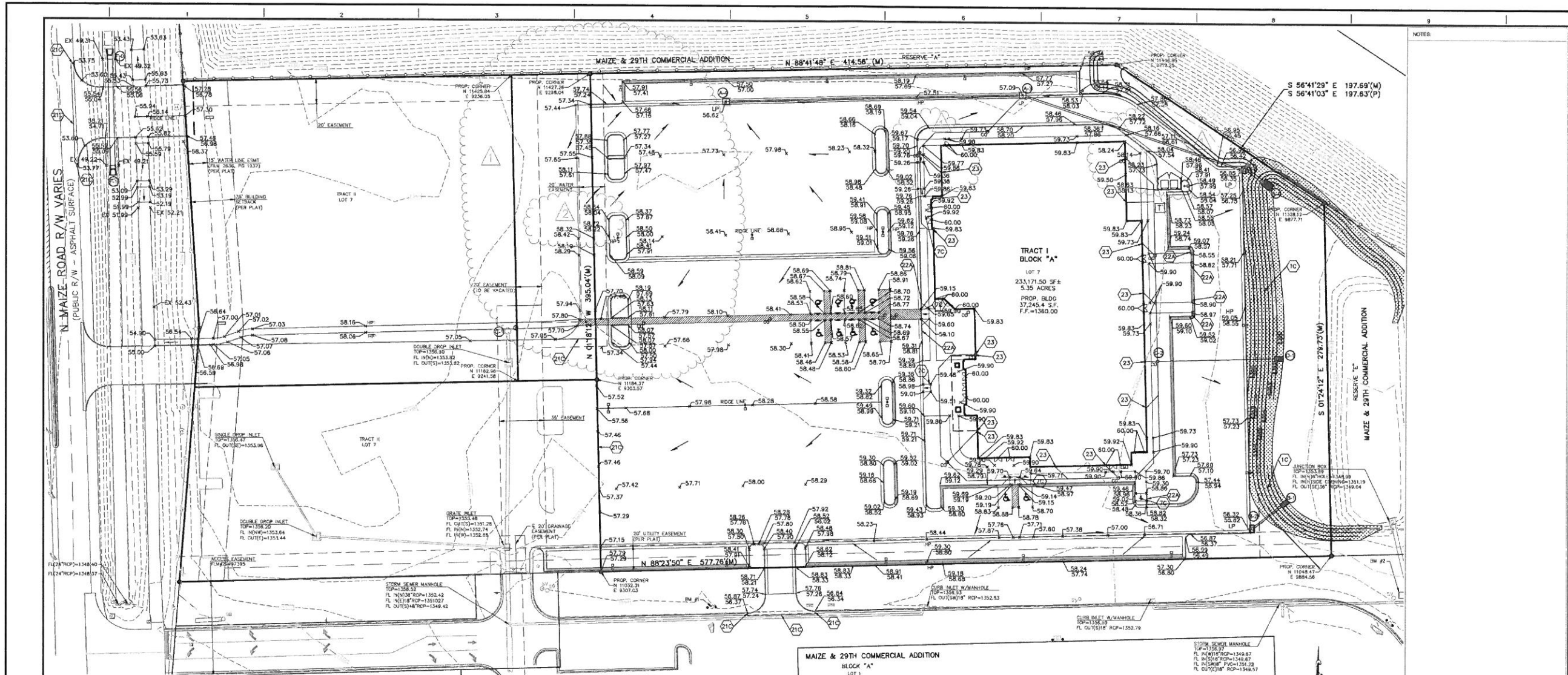
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113, EXPIRES 12/31/18

LIFE.CHURCH WEST CAMP.
3210 N MAIZE RD.
WICHITA, KS

EROSION CONTROL PLAN

PROJ. NO. G17_0460
DESIGNER SRS
DRAWN BY EAM
CFN 0460DECP
SHEET 05
REV 2

Z:\Civil_3D\Projects\2014\G17_0460\DESIGN\0460DECP.dwg
January 03, 2018 - 9:28am



GRADING NOTES:

- THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER SHALL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES.
- AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
- OFF-SITE FILL MATERIAL SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN FOUR INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE (OWNER) PRIOR TO BRINGING ON SITE.
- EARTHWORK UNDER THE BUILDING SHALL COMPLY WITH THE PROJECT ARCHITECTURAL PLANS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL MATERIAL MAY INCLUDE ROCK FROM ON-SITE EXCAVATION IF CAREFULLY PLACED SO THAT LARGE STONES ARE WELL DISTRIBUTED AND VOIDS ARE COMPLETELY FILLED WITH SMALLER STONES. SAND OR GRAVEL TO FURNISH A SOLID EMBANKMENT. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 12 INCHES OF EMBANKMENT.
- AREAS THAT ARE TO BE OUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
- IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE (OWNER) THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRTY RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- ALL SLOPES ARE TO BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED.
- ALL SLOPES EXCEEDING 3:1 SHALL BE PROTECTED BY RIP RAP, CONCRETE PAVING, OR OTHER METHODS INDICATED ON THESE PLANS, THAT WILL PREVENT EROSION AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- CONTRACTOR SHALL USE SILT FENCE, OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY OR OTHER BOTTOM OF SLOPE LOCATIONS.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
- PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.
- HANDICAP STALLS SHALL MEET ADA REQUIREMENTS AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION AT THE BUILDING ENTRY AND ACCESSIBLE PARKING STALLS. SLOPES EXCEEDING 2% WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

LEGEND (PROPOSED)

- 57.38 SPOT ELEVATION (ADD 1300), TOP OF PAVEMENT
- HP HIGH POINT
- LP LOW POINT
- 53.60 TOP OF CURB (ADD 1300)
- 53.10 FLOWLINE OF CURB (ADD 1300)
- PROPOSED GROUND CONTOURS
- EXISTING GROUND CONTOUR (1' INTERVALS)
- PROPOSED FLOW ARROW
- RAMP DOWN ARROW
- STORM STRUCTURE IDENTIFIER

NOTES:

- NORTH AMERICAN GREEN ROLLMAX C 700 BN EROSION CONTROL MAT
- RAMP IN SIDEWALK (SEE SHEET C-13)
- 21C MATCH EXISTING PAVEMENT ELEVATIONS
- 22A TAPER CURB FROM 6" TO 0" IN 2'-0"
- 22B TAPER CURB TO MATCH SIDEWALK
- 23 ROOF DRAIN RAIN LEADERS (SEE UTILITY PLANS)

FOR INFORMATION ONLY

SEE CITY OF WICHITA PRIVATE PROJECT DRAINAGE PLANS (D465PPD) FOR STORM SEWER DESIGN DETAILS/CONSTRUCTION

END SECTION "A-1"

PROPOSED 24" RCP END SECTION
FL IN(W) 15" RCP=1351.51
N 11342.49
E 9832.61

CURB INLET "A-2"

PROPOSED 3/4" TYPE 1 CURB INLET
TOP=1356.85
FL IN(W) 15" RCP=1351.51
N 11354.42
E 9843.67

MANHOLE "A-3"

PROPOSED 4'x4' GRATE INLET
RM=1357.09
FL IN(W) 15" RCP=1352.54
N 11411.96
E 9838.79

AREA INLET "A-4"

PROPOSED 4'x4' GRATE INLET
TOP=1356.62
FL OUT(E) 15" RCP=1353.71
N 11465.42
E 9404.96

END SECTION "B-1"

PROPOSED 15" RCP END SECTION
FL IN(W) 15" RCP=1351.00
N 11089.42
E 9947.23

CURB INLET "B-2"

PROPOSED 3/4" TYPE 1 CURB INLET
TOP=1356.32
FL OUT(E) 24" RCP=1351.31
N 11084.42
E 9821.65

END SECTION "D-1"

PROPOSED 12" PVC END SECTION W/RESTRAINED JOINTS
FL IN(W) 15" RCP=1351.00
N 11204.19
E 9840.71

CLEAN-OUT "D-2"

CONSTRUCT STORM CLEAN-OUT (SOLA PART OF D465PPD)
RM=1359.68
FL IN(W) 8" PVC RAIN LEADER
FL IN(W) 8" PVC=1352.11
FL OUT(E) 12" PVC=1351.95
N 11201.53
E 9745.98

CULVERT END SECTION "E-0"

PROPOSED 45"x29" ELLIPTICAL RCP END SECTION
FL IN(S) 45"x29" RCP=1348.91
N 11445.10
E 9918.11

CULVERT END SECTION "F-1"

PROPOSED 45"x29" ELLIPTICAL RCP END SECTION
FL OUT(N) 45"x29" RCP=1348.82
N 11454.33
E 8920.91

CONNECT TO EXIST "C-1"

PROPOSED 5' DIAMETER STORM SEWER MANHOLE OVER 30"x19" CONCRETE HORIZONTAL ELLIPTICAL PIPE
FL IN(W) 15" RCP=1351.94 (FIELD CHECK)
N 11222.57
E 9233.41

END SECTION "D-1"

PROPOSED 12" PVC END SECTION W/RESTRAINED JOINTS
FL IN(W) 15" RCP=1351.00
N 11204.19
E 9840.71

CLEAN-OUT "D-2"

CONSTRUCT STORM CLEAN-OUT (SOLA PART OF D465PPD)
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FL IN(W) 8" PVC RAIN LEADER
FL IN(W) 8" PVC=1352.11
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E 9918.11

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PROPOSED 45"x29" ELLIPTICAL RCP END SECTION
FL OUT(N) 45"x29" RCP=1348.82
N 11454.33
E 8920.91

DATUM BENCHMARK:

VERTICAL DATUM IS NAVD 88 ESTABLISHED USING OPUS PROJECTS ON PROJECT CONTROL.

BENCHMARKS:

BM#1: CHISELED "X" AT NORTH CAP BOLT OF FIRE HYDRANT, NORTH SIDE ENTRANCE ROAD, 35E NORTH AND 75E WEST OF THE NORTHWEST CORNER OF SAWS. ELEV=1359.08
BM#2: CHISELED "SQUARE" AT NORTHWEST CORNER OF CONCRETE PAD WITH IRRIGATION PUMP AT SOUTHWEST CORNER OF SITE. ELEV=1355.92

IF DISCREPANCIES EXIST BETWEEN THE GRADING NOTES AND THE RECOMMENDATIONS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT SHALL GOVERN.

THE COORDINATES PROVIDED ON THIS PLAN ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN HEREON BEFORE CONSTRUCTION.

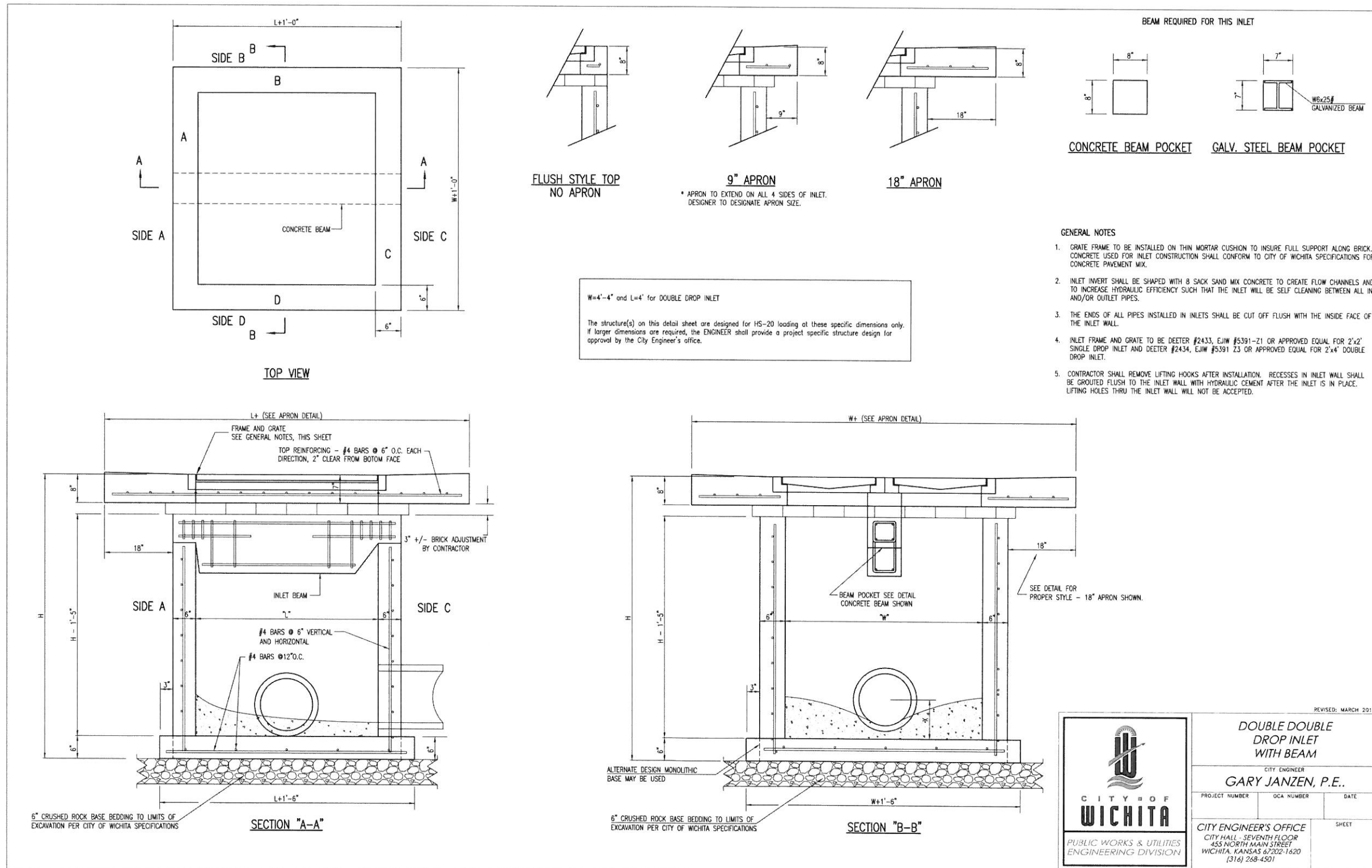
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NOTES:

KEY PLAN

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PROJ. NO.	G17_0460
DESIGNER	SRS
C/N	0460DGP
SHEET	06
DATE	JULY 21, 2017
PROJECT TITLE	LIFE.CHURCH WEST WICHITA, KS CAMPUS
DRAWING NO.	C-5
DATE	JULY 21, 2017
PROJECT NO.	17.30.001
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C/N	0460DGP
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PROJECT TITLE	LIFE.CHURCH WEST WICHITA, KS CAMPUS
DRAWING NO.	



W=4'-4" 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, EJM #5391-Z1 OR APPROVED EQUAL FOR 2'x2' SINGLE DROP INLET AND DEETER #2434, EJM #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.

REVISED: MARCH 2015

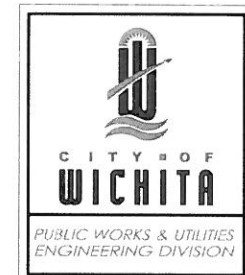
DOUBLE DOUBLE DROP INLET WITH BEAM

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER OCA NUMBER DATE

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

SHEET



2	11-17-17	OWNER REVIEW FOR CONSTRUCTION	SRS	JSB	TRA
1	7-24-17	SUBMITTAL TO C.O.W.	SRS	EAM	TRA
0	6-7-17	85% SUBMITTAL	SRS	JSB	TRA
		REV DATE	DESCRIPTION	DSN	DWN
				CHK	CHK

SCOTT R. SERVIS
ENGINEER
KS # 17874

900 N. EUROPA, SUITE 100
WICHITA, KANSAS 67202
PH. (316) 440-4304 | FAX (316) 440-4309
www.kawvalleyeng.com | www.serving.com

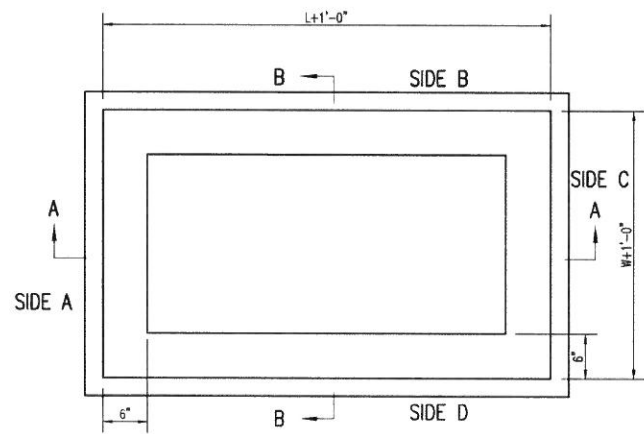
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/18

LIFE CHURCH WEST CAMP.
3210 N MAIZE RD.
WICHITA, KS

STANDARD DETAILS

PROJ. NO. C17_0460
DESIGNER SRS
CFN
SHEET 07

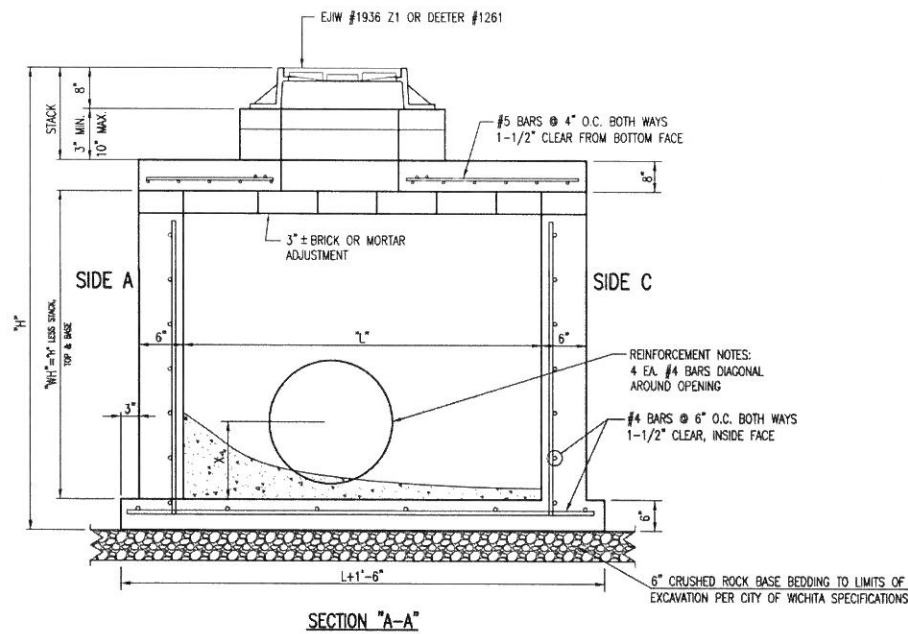
DRAWN BY EAM
0460DDET
REV 2



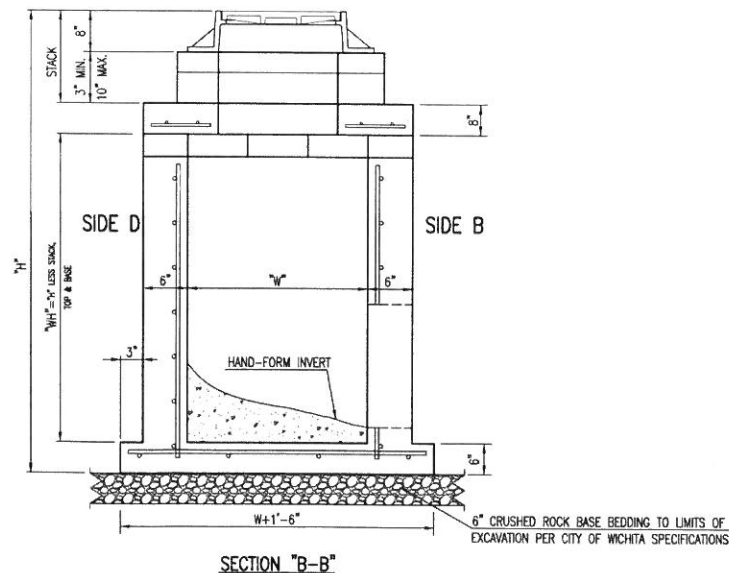
TOP VIEW

GENERAL NOTES

1. 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.
2. 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.
3. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
4. INLET FRAME AND GRATE TO BE DEETER #1261, EJIW #1936-Z1 OR APPROVED EQUAL, SEE SW-303.
5. 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.



SECTION "A-A"

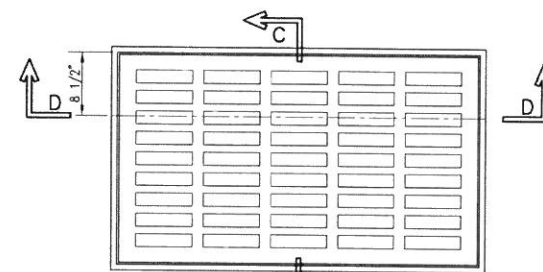
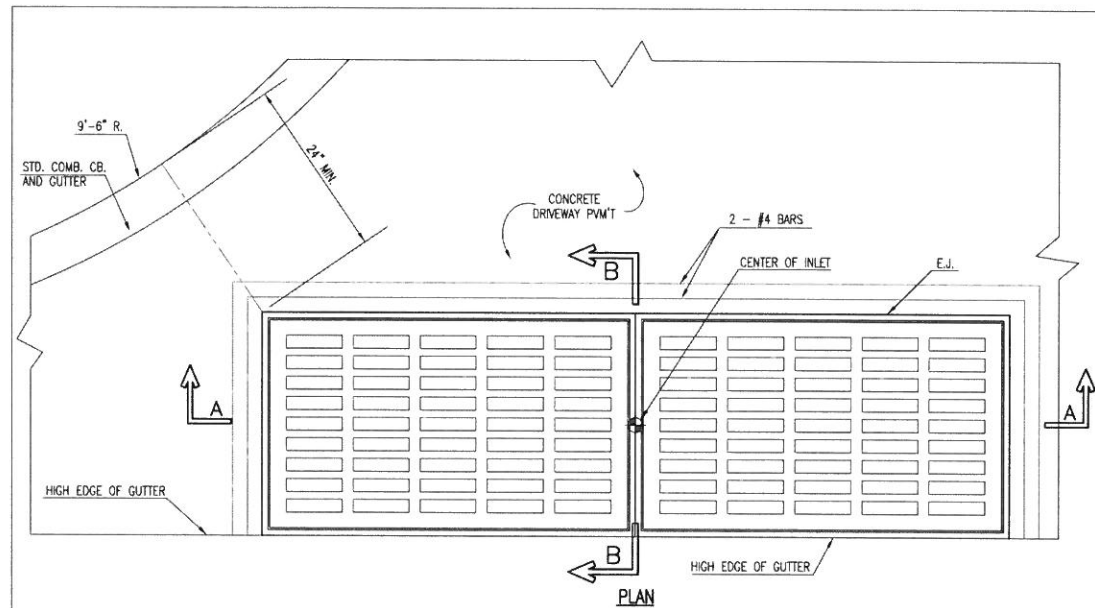


SECTION "B-B"

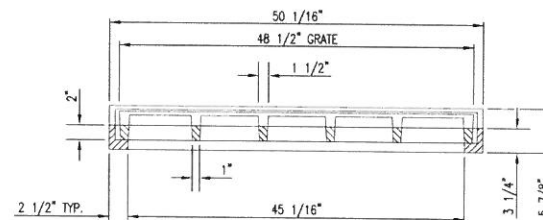


REVISED: MARCH 2015		
REINFORCED CONCRETE MANHOLE (STORM SEWER)		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR 435 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		

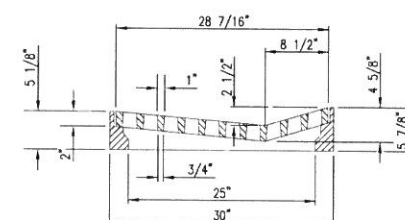
SCOTT R. SERVIS ENGINEER KS # 17874		KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/18	
200 N. BRUNSON, SUITE 100 WICHITA, KANSAS 67202 PH. (316) 440-4304 FAX (316) 440-4309 www.kaveeng.com www.kveeng.com		KAW VALLEY ENGINEERING	
11-17-17	OWNER REVIEW FOR CONSTRUCTION	SRS	TRA
7-24-17	SUBMITTAL TO C.O.W.	SRS	TRA
6-7-17	65% SUBMITTAL	SRS	TRA
0		SRS	TRA
2		DSN	CHK
REV	DATE	DESCRIPTION	
09		STANDARD DETAILS	
PROJ. NO. G17-0460		DESIGNER SRS	
DRAWN BY EAM		CFN	
SHEET 09		REV 2	



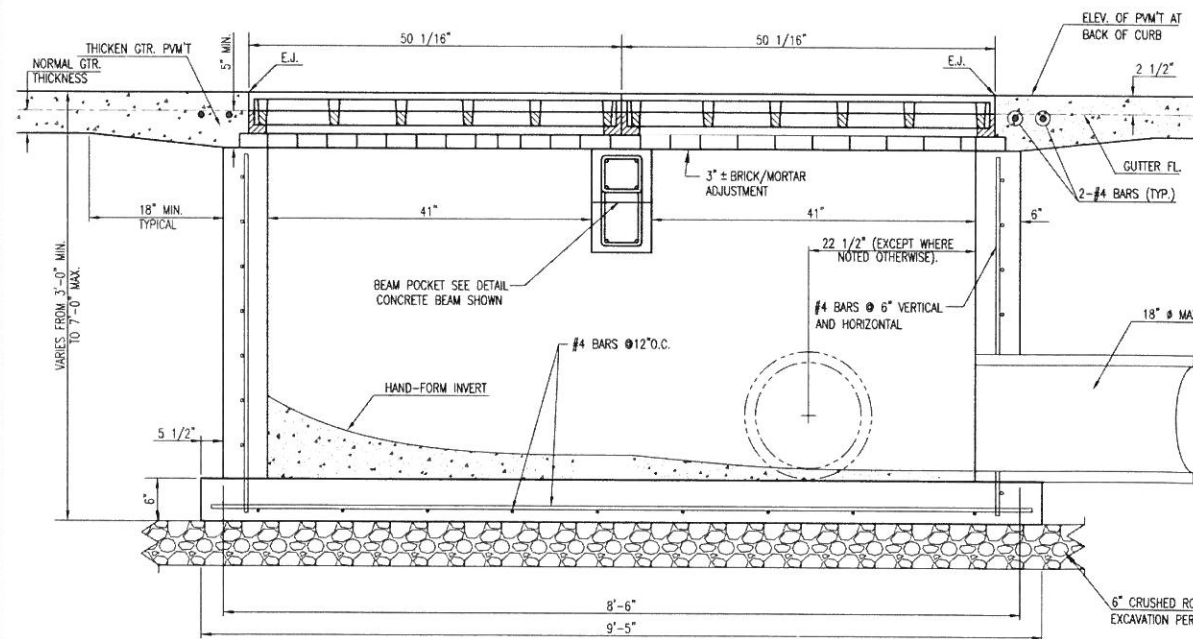
**PLAN
DEETER #2095 FRAME & GRATE**
TOTAL WEIGHT: 705 LBS.
(2 EACH REQUIRED)
OR EJM #7392



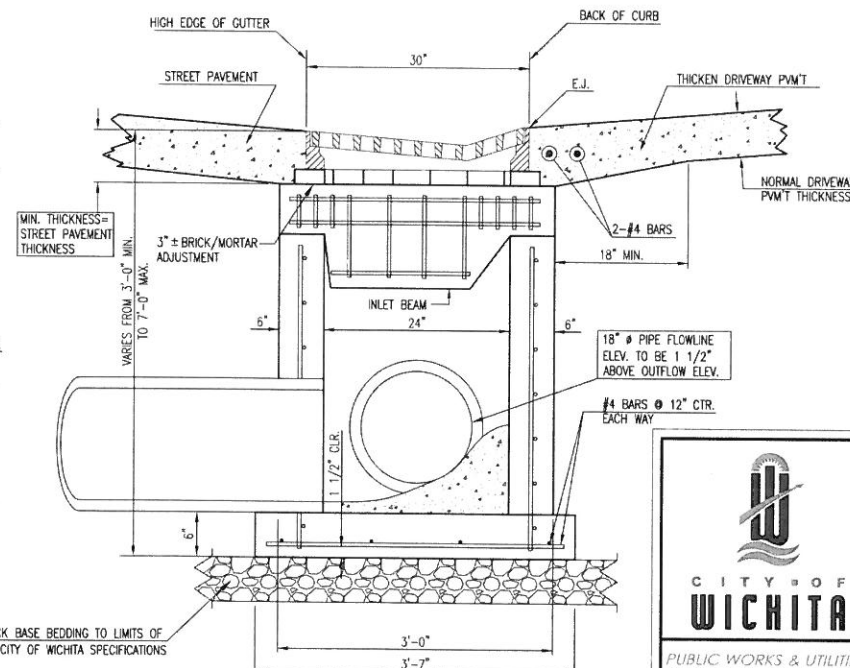
SECTION D-D



SECTION C-C



SECTION A-A



SECTION B-B

GENERAL NOTES

1. 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.
2. CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALL BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN 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 GRATE TO BE DEETER #2095, EJM #7392, OR APPROVED EQUAL.
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.



SCOTT R. SERVIS
ENGINEER
KS # 17874

2824 N. EUROPA, SUITE 150
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KAW VALLEY ENGINEERING
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REVISED: MARCH 2015

**GRADED
DRIVEWAY INLET
(DOUBLE)**

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER DCA NUMBER DATE

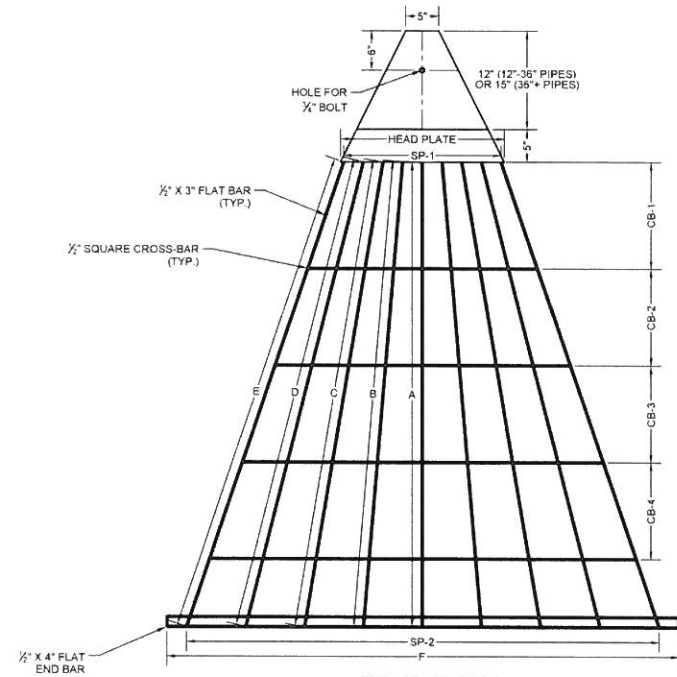
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
435 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

LIFE CHURCH WEST CAMP.
3210 N MAIZE RD.
WICHITA, KS

STANDARD DETAILS

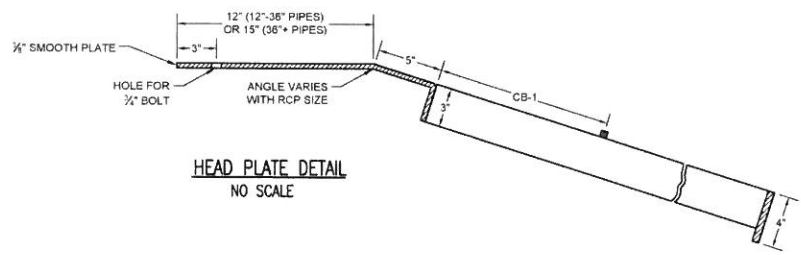
PROJ. NO.	G17_0460
DESIGNER	SRS
CFN	0460DDET
SHEET	10
REV	2



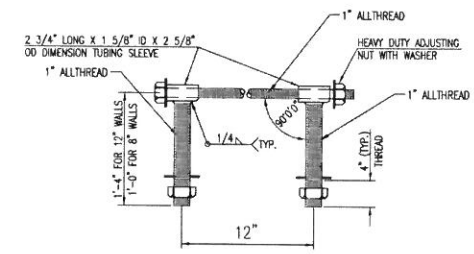
END GRATE DETAIL
NO SCALE

NOTE: GRATE TO BE USED AS DIRECTED BY THE CITY OF WICHITA.

GRATE DIMENSIONS													
PIPE SIZE	HEAD PLATE	A	B	C	D	E	F	CB-1	CB-2	CB-3	CB-4	SP-1	SP-2
12"	13"	19 1/4"	19 3/8"	-	-	-	27"	10 3/4"	-	-	-	3@4"	3@6"
15"	13"	23 1/2"	25 1/4"	-	-	-	34"	10 3/4"	-	-	-	3@4"	3@8"
18"	13"	25"	26 1/8"	-	-	-	40"	12 1/8"	-	-	-	3@4"	3@9"
24"	17"	41 1/2"	42 1/2"	43 1/2"	-	-	53"	12"	15"	-	-	4@4"	4@9"
30"	19"	51 1/2"	52 1/2"	53 1/2"	-	-	65"	16 1/4"	11 3/4"	12"	-	2@3" + 3@4"	5@9"
36"	21"	60 1/2"	61 1/2"	62 1/2"	-	-	78"	18 1/2"	14 1/4"	16"	-	2@2" + 4@4"	6@9"
42"	22"	65 1/2"	66 1/2"	67 1/2"	68 3/4"	-	86"	13 3/4"	12 3/8"	13"	11 1/4"	7@3"	7@9"
48"	25"	70 7/8"	71"	71 3/4"	73"	74 1/2"	90"	16 1/4"	14 3/4"	14 3/4"	14 3/4"	8@3"	8@9"
54"	26"	71 3/4"	73"	74 1/2"	74 3/4"	76 3/4"	96"	6 7/8"	20 7/8"	17 7/8"	15 1/2"	4@2 3/4" + 5@3"	9@9"
60"	28"	61 1/8"	61 3/4"	62 3/4"	64 1/2"	66 3/8"	102"	12"	12"	11 1/2"	13"	2@2" + 8@3"	10@9"

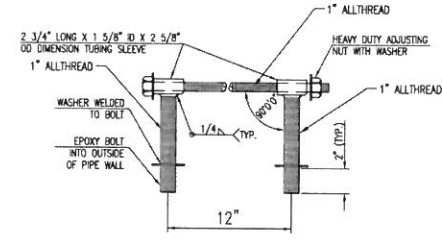


HEAD PLATE DETAIL
NO SCALE



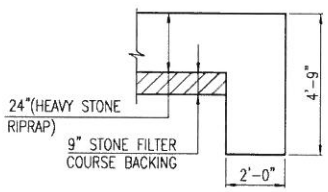
HEAVY DUTY (H.D.) COUPLER (>36")
NO SCALE

- NOTES
1. BOLTS TO BE A-36 1 1/2" DIAMETER.
 2. BOLTS, NUTS, WASHERS AND SLEEVES TO BE ZINC PLATED.
 3. WASHERS TO BE 3 1/2" O.D. X 7 GAUGE.
 4. SHIP WITH NUTS AND WASHERS PLACED ON BOLTS.



HEAVY DUTY (H.D.) COUPLER (<30")
NO SCALE

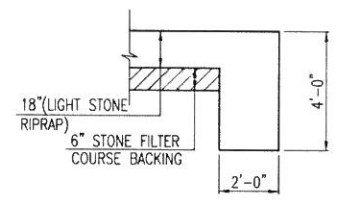
- NOTES
1. BOLTS TO BE A-36 1 1/2" DIAMETER.
 2. BOLTS, NUTS, WASHERS AND SLEEVES TO BE ZINC PLATED.
 3. WASHERS TO BE 3 1/2" O.D. X 7 GAUGE.
 4. SHIP WITH NUTS AND WASHERS PLACED ON BOLTS.



TYPICAL SECTION THRU TOEWALL
NO SCALE

- NOTES
1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED, UNLESS INDICATED OTHERWISE.
 2. TOEWALLS SHALL BE INSTALLED ALONG ALL UNPROTECTED EDGES OF STONE RIPRAP.
 3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED, UNLESS INDICATED OTHERWISE. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

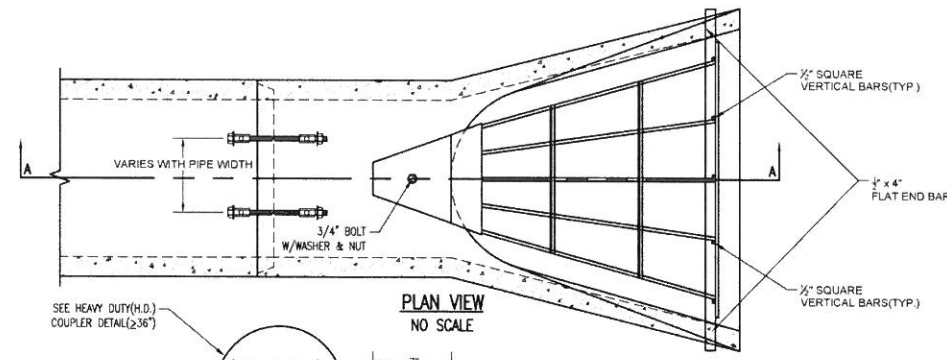
HEAVY STONE RIPRAP DETAILS



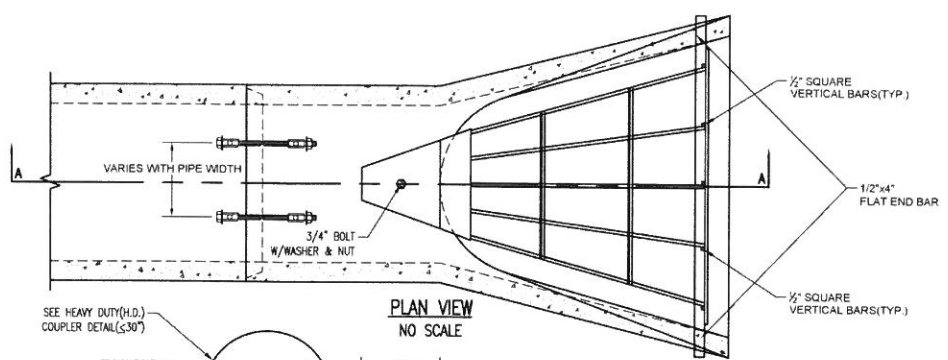
TYPICAL SECTION THRU TOEWALL
NO SCALE

- NOTES
1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED, UNLESS INDICATED OTHERWISE.
 2. TOEWALLS SHALL BE INSTALLED ALONG ALL UNPROTECTED EDGES OF STONE RIPRAP.
 3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED, UNLESS INDICATED OTHERWISE. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

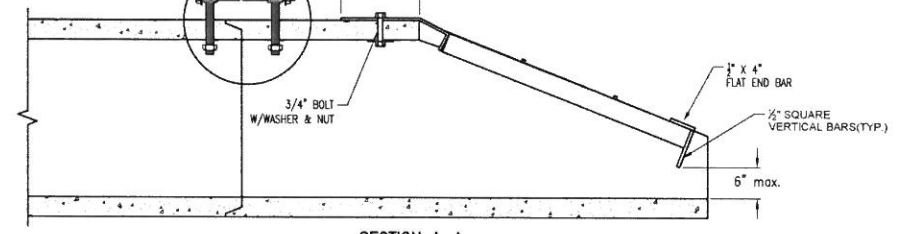
LIGHT STONE RIPRAP DETAILS



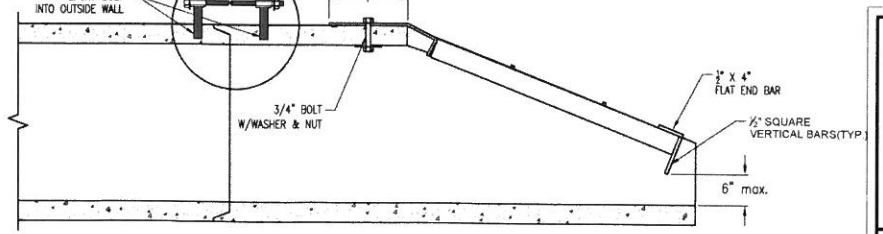
PLAN VIEW
NO SCALE



PLAN VIEW
NO SCALE



SECTION A-A



SECTION A-A



END SECTION, PIPE RESTRAINT COUPLER & END GRATE

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER: _____ OCA NUMBER: _____ DATE: 01/2015

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

DESIGN: _____ DRAWN: _____

SHEET: _____ OF _____

SCOTT R. SERVIS
ENGINEER
KS # 17874

900 N. EMPORIA, SUITE 100
WICHITA, KANSAS 67202
PH: (316) 440-4304 | FAX: (316) 440-4309
www.kawvalley.com | www.kve.com

KAW VALLEY ENGINEERING
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LIFE, CHURCH WEST CAMP.
3210 N MAIZE RD.
WICHITA, KS

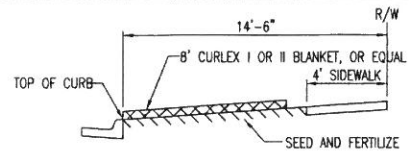
STANDARD DETAILS

PROJ. NO.	G17_0460
DESIGNER	SRS
CFN	04600DET
SHEET	REV
11	2

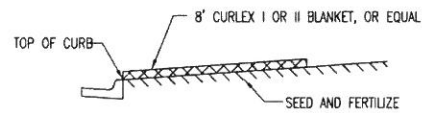
REV DATE DESCRIPTION

2	11-17-17	OWNER REVIEW FOR CONSTRUCTION	SRS	USB	TRA
1	7-24-17	SUBMITTAL TO C.O.W.	SRS	EAM	TRA
0	6-7-17	65% SUBMITTAL	SRS	USB	TRA
					CHK

Revised 01-10-2015 8:12:38 AM by CER/AN/TJS
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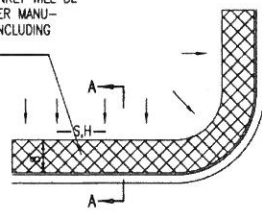


SECTION B-B

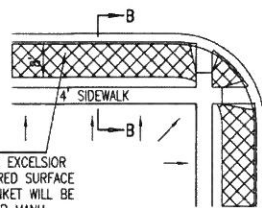


SECTION A-A

INSTALL 8" WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURER'S RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)



SOUTH STREET

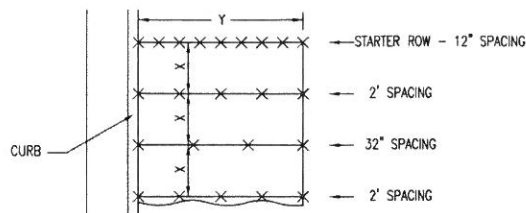


INSTALL 8" WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURER'S RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

GENERAL NOTES

- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
- EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

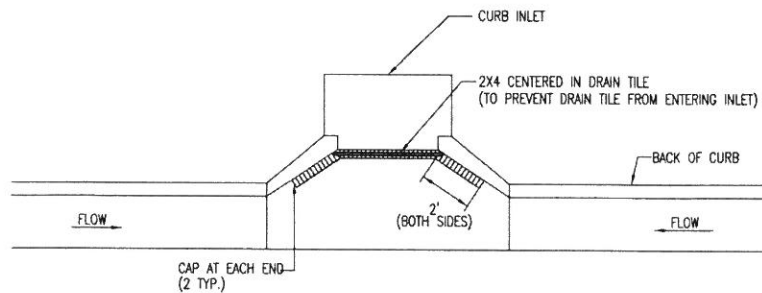
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

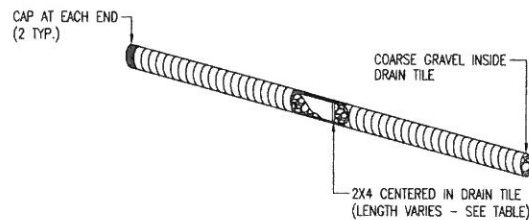
NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT

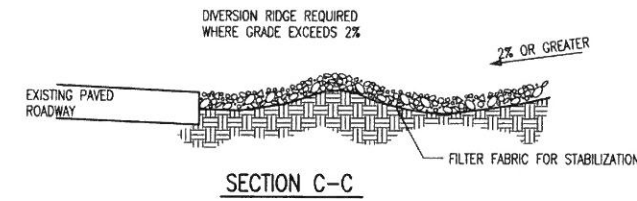


NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

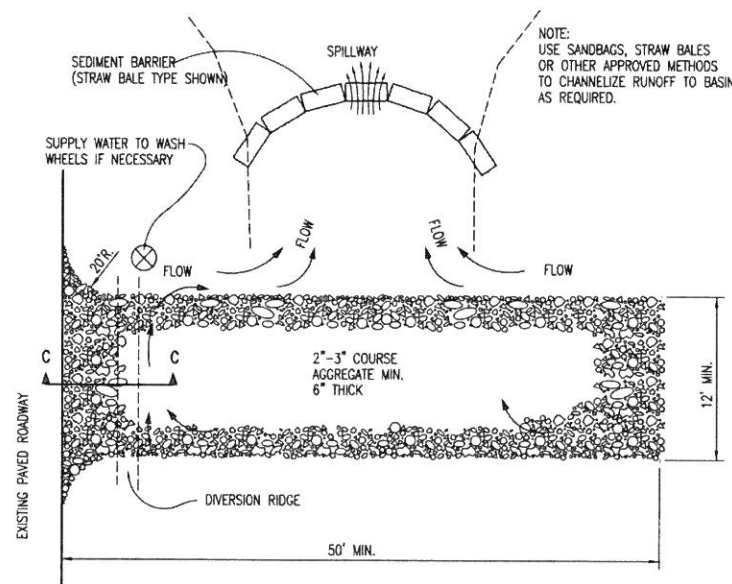
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.



CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

BACK OF CURB PROTECTION,
CURB INLET PROTECTION AND
CONSTRUCTION ENTRANCE

CITY ENGINEER
GARY JANZEN, P.E.

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

REVISION DATE: MAY 2013

11-17-17	OWNER REVIEW FOR CONSTRUCTION	SRS	TRA
7-24-17	SUBMITTAL TO C.O.W.	SRS	TRA
6-7-17	85% SUBMITTAL	SRS	TRA
0		SRS	TRA
	REV DATE	DESCRIPTION	CHK
			DSN
			DWN
			CHK

SCOTT R. SERVIS
ENGINEER
KS # 17874

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LIFE CHURCH WEST CAMP.
3210 N MAIZE RD.
WICHITA, KS

PROJ. NO. G17_0460
DESIGNER SRS DRAWN BY EAM
CFN
SHEET 0460DET REV
12 2

EROSION CONTROL DETAILS

MAIZE & 29TH COMMERCIAL ADDITION WICHITA, SEDGWICK COUNTY, KANSAS

LOT	BLOCK	ELEVATION
1-7	A	1352.7

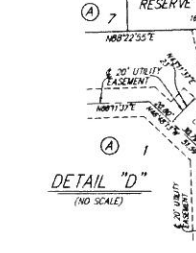
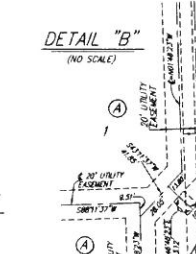
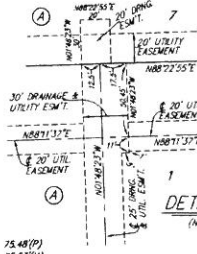
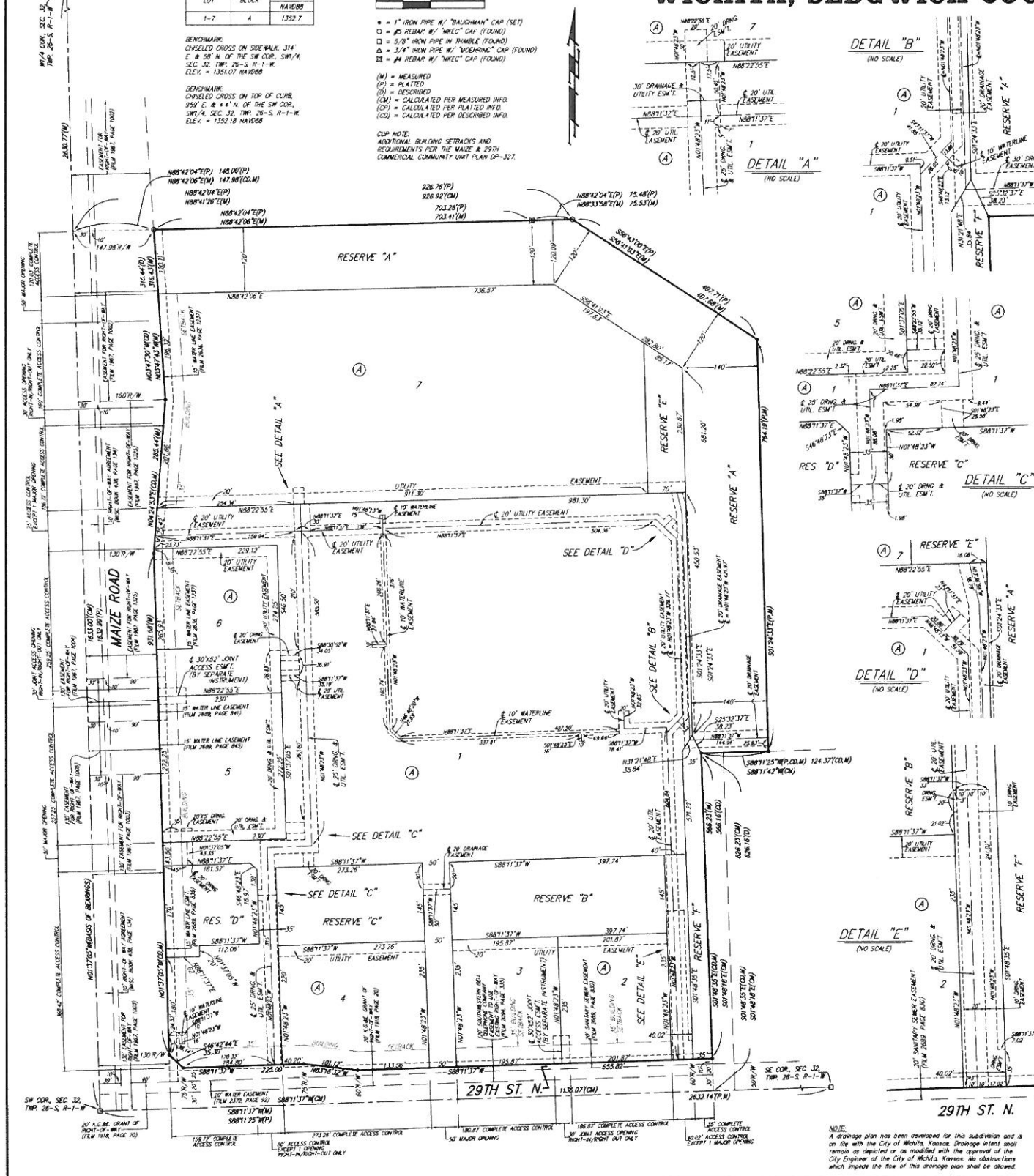
MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES

BENCHMARK
CHISELED CROSS ON SIDEWALK, 314' E & 58' N OF THE SW COR. SW 1/4 SEC. 32, TWP. 26-S, R-11-W, ELEV. = 1351.07 NAVD83

BENCHMARK
CHISELED CROSS ON TOP OF CURB, 95' E & 44' N OF THE SW COR. SW 1/4 SEC. 32, TWP. 26-S, R-11-W, ELEV. = 1352.18 NAVD83

1" = 100'

- 1" = 1" IRON PIPE W/ "BAUGHMAN" CAP (SET)
 - Ø = 1/2" REBAR W/ "WREC" CAP (FOUND)
 - = 3/8" IRON PIPE IN TUMBLE (FOUND)
 - △ = 3/4" IRON PIPE W/ "WICHITA" CAP (FOUND)
 - = 1/4" REBAR W/ "WREC" CAP (FOUND)
- (M) = MEASURED
(P) = PLATED
(D) = DESCRIBED
(C) = CALCULATED PER MEASURED INFO.
(CP) = CALCULATED PER PLATED INFO.
(CD) = CALCULATED PER DESCRIBED INFO.
- CIP NOTE:
ADDITIONAL BUILDING SETBACKS AND REQUIREMENTS FOR THE MAIZE & 29TH COMMERCIAL SUBDIVISION UNIT PLAN 09-157.



State of Kansas) SS We, Baughman Company, P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "MAIZE & 29TH COMMERCIAL ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as the Southwest Quarter of Section 32, Township 26 South, Range 1 West of the 6th P.M., Sedgwick County, Kansas, EXCEPT a tract described as commencing at the southwest corner of the East Half of the South Half of said Southwest Quarter, thence N90°00'00"W (assumed) along the south line of said Southwest Quarter, 140.00 feet; thence N00°00'00"E, 626.16 feet; thence S90°00'00"E, 626.16 feet; thence S00°00'00"W, 626.16 feet; thence N90°00'00"W, 486.16 feet to the point of beginning, and EXCEPT a tract described as commencing at the southwest corner of the East Half of the South Half of said Southwest Quarter, thence N90°00'00"W (assumed) along the south line of said Southwest Quarter, 140.00 feet to the point of beginning, being the southwest corner of a tract of land recorded in the Register of Deeds Office on Warranty Deed in Film 1207, Page 248; thence along the south line of said Section, N90°00'00"W, 40 feet; thence N00°00'00"E, 626.16 feet; thence N90°00'00"E, 40 feet to the northwest corner of said Deed; thence S00°00'00"W, 626.16 feet along the west line of said Deed to the point of beginning, and EXCEPT that portion of said Southwest Quarter platted as Fox Ridge Addition, an Addition to Wichita, Sedgwick County, Kansas and Fox Ridge Second Addition, an Addition to Wichita, Sedgwick County, Kansas, all being subject to road rights-of-way of record.

Existing public easements and dedications being vacated by virtue of K.S.A. 12-512b, as amended.

Baughman Company, P.A.

Michael G. Conroy, Surveyor

Know all men by these presents that we, the undersigned, have caused the land in the surveyors certificate to be platted into Lots, a Block, Reserves, and Streets, to be known as "MAIZE & 29TH COMMERCIAL ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The drainage and utility easements are hereby granted as indicated for drainage purposes and for the construction and maintenance of all public utilities. The drainage easements are hereby granted as indicated for drainage purposes. The waterline easements are hereby granted as indicated for the construction and maintenance of all public waterlines and related appurtenances. The streets are hereby dedicated to and for the use of the public. Reserve "A" is hereby reserved for landscaping, screening walls, fencing, berms, site lighting, open space, drainage purposes, and waterlines and related appurtenances as confined to easement. Site lighting shall be installed within the westerly and southerly 10 feet of Reserve "A". Reserve "A" shall be owned and maintained by the owner of Lot 1, Block A provided, however, that the undersigned, or the undersigned's successor in interest, may, in their discretion, deed a parcel of Reserve "A" to an owner or owners of an adjacent parcel, subject to the obligation to maintain such deeded parcel of said Reserve "A" in compliance with the provisions hereof and in compliance with the maintenance covenants of any applicable restrictive covenants and/or regulations. Reserves "B" and "C" shall be reserved for open space, landscaping, berms, lakes, and drainage purposes. Reserve "D" shall be reserved for open space, landscaping, berms, lakes, drainage purposes, and a driveway appurtenant to the corresponding major access opening, and waterlines and related appurtenances as confined to easement. Reserve "E" shall be reserved for open space, landscaping, berms, lakes, drainage purposes, and utilities as confined to easements. Reserve "F" is hereby reserved for landscaping, screening walls, fencing, berms, site lighting, open space, drainage purposes, and sanitary sewer systems as confined to easements. Site lighting shall be installed within the westerly 10 feet of Reserve "F". Reserves "B", "C", "D" and "F" shall be owned and maintained by the owner of Lot 7, Block A. Reserve "E" shall be owned and maintained by the owner of Lot 1, Block A. Access controls shall be as depicted on the face of the plat and are hereby granted to the City of Wichita, Kansas. The Minimum Building Pad Elevations for the lowest opening to the structures shall be as indicated on the face of the plat.

Leo Marvin Rink Revocable Trust
 Leo Marvin Rink, Trustee
 Vivian L. Rink, Trustee
 Vivian L. Rink Revocable Trust
 Vivian L. Rink, Trustee
 Leo Marvin Rink, Trustee

Curtis W. Rink, Karen S. Rink

This plat of "MAIZE & 29TH COMMERCIAL ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.
 Dated this 21st day of FEBRUARY, 2013.
 Wichita-Sedgwick County Metropolitan Area Planning Commission

David Dennis, Chair
 John L. Schlegel, Secretary

This plat approved and all dedications shown herein accepted by the City Council of the City of Wichita, Kansas, this 21st day of May, 2013.

Carl Brewer, Mayor
 Karen Sublett, City Clerk

Reviewed in accordance with K.S.A. 58-2005 on this 21st day of May, 2013.

Tricia L. Robello, L.S. #1246, Deputy County Surveyor, Sedgwick County, Kansas

Kelly B. Arnold, County Clerk

Bill Meek, Register of Deeds

Judith M. Terhune, Notary Public

Judith M. Terhune, Notary Public

Judith M. Terhune, Notary Public

Judith M. Terhune, Notary Public

Judith M. Terhune, Notary Public

Baughman Company, P.A.

Baughman

REV	DATE	DESCRIPTION
2	11-17-17	OWNER REVIEW FOR CONSTRUCTION
1	7-24-17	SUBMITTAL TO C.O.W.
0	6-7-17	65% SUBMITTAL

PROJ. NO.	DESIGNER	DRAWN BY	SHEET	REV
G17_0460	SRS	EAM	0460DET	17

PLAT	CHK
LIFE CHURCH WEST CAMP, 3210 N MAIZE RD. WICHITA, KS	CHK