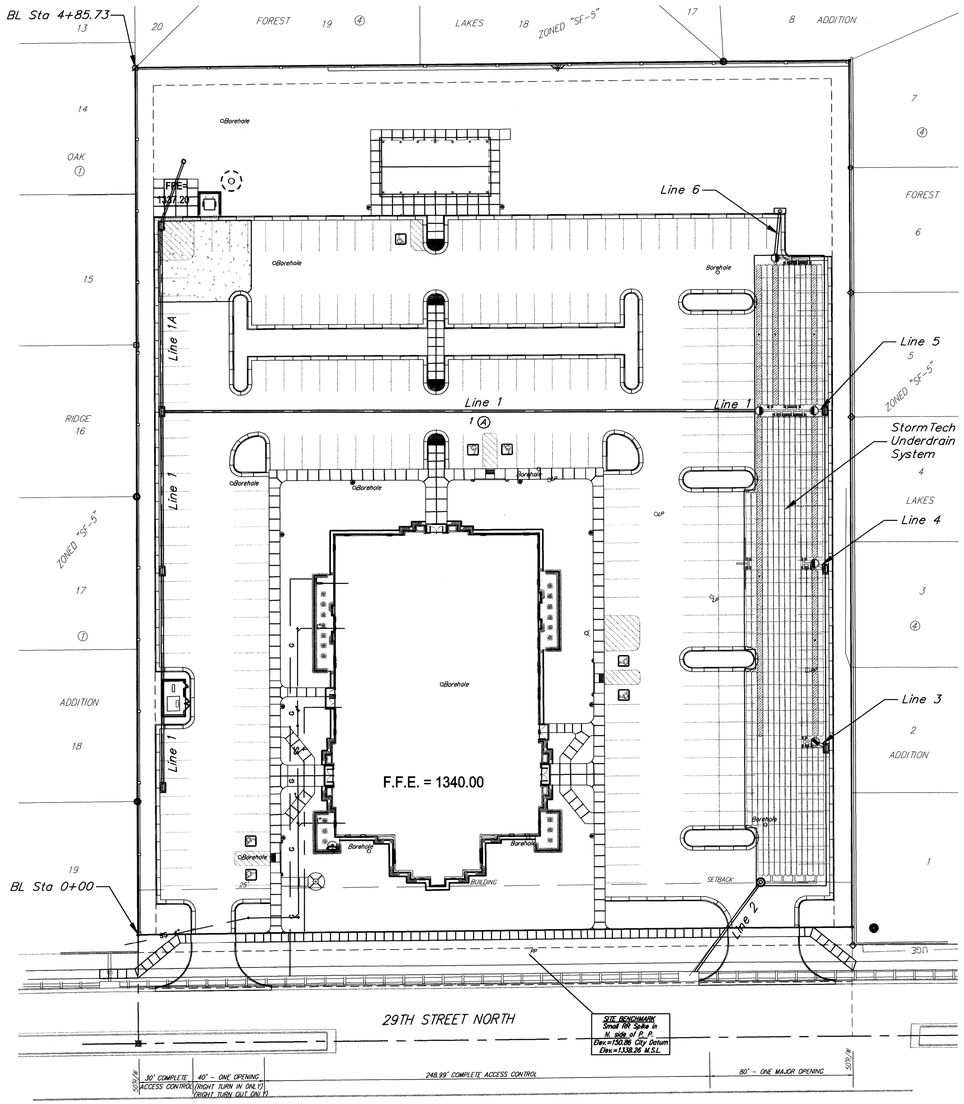
As Built Plans
Contractor: McCullough Excavation Co.
Inspector: Schwab-Eaton, P.A.
pdf by: CR 7-20-2011
Project was constructed according to plans approved on April 26, 2011

SCALE:
1" = 60'
40 0 40

● IRON:



STORM WATER SEWER TO SERVE

29th St. N. Church Addition

LOT 1, BLOCK A

Private Project: 0020 PPD (607861)

CITY OF WICHITA, KANSAS

James Armour, P.E. City Engineer

April 2011

Benchmarks

Small RR Spike in N. side of P.P. (Shown on Plan)
Elev. = 150.86 City Datum
Elev. = 1338.26 M.S.L.

Legal Description

Lot 1, Block A 29th St. N. Church Addition.
Wichita, Sedgwick County, Kansas

Index

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Engineering Juliann Kallman 4-26-11

Storm Sewers Jim Hardesty 4-28-11

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).

MICKEY WILLIAM STUMP LICENSED 15629 07/26/2011 KANSAS PROFESSIONAL ENGINEER

General Notes

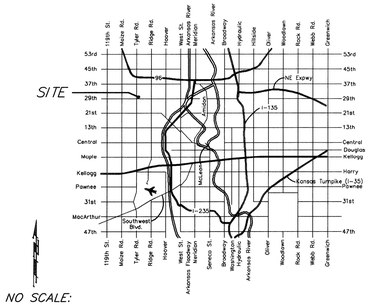
1. *Contractor will be required to provide notice to utility companies a minimum of forty-eight (48) hours prior to any excavation, as follows:*

Kansas One-Call	687-2470

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

Cox Communications	262-4270
Kansas Gas Service Company	1-888-482-4950
Westar Energy (Electric)	383-8650
Black Hills Energy (Gas)	1-800-303-0357
Southwestern Bell Telephone Co.	1-800-286-8313
City of Wichita Water Dept. (Water)	262-6000
City of Wichita Sewer Maint. (SS)	262-6000
City of Wichita Storm Sewer Maint.	268-4090
City of Wichita Traffic Maint.	268-4034

2. *All disturbed R/W areas not intended for pavement or sidewalk construction shall be seeded with Kansas Premium Fescue Blend at a rate of 8 lb./1000 Sq. Ft., fertilized with a 16-20-6 ratio at a rate of 4 lb./1000 Sq. Ft., and mulched with Prairie Hay at a rate of 92 lb./1000 Sq. Ft. Mulch shall be "patted" with forks or punched into soil to reduce loss due to wind.*
3. *Utility service lines, poles, valve boxes, meters, et cetera 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 and shall be field verified. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.*
4. *Contractor shall furnish the inspector with a copy of the manufacturer's certification for all pipe used on this project after completion of pipe installation. The engineer will not certify the project to the city until pipe certification has been received.*
5. *Properties within the project limits may have underground sprinkler systems 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. The Contractor will be required to salvage all sprinkler heads and/or valves and give such material to their 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 of work.*
6. *Cuts made to paved surfaces on public property will be repaired by the City's contractor and charged against the owner/applicant. 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 sewer service if sewer service is affected. Contractor shall obtain permit prior to construction.*
7. *Barriers and detour signage shall be in accordance with the Manual On Uniform Traffic Control Devices.*
8. *Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Contractor shall not start on the project until all necessary bonds and permits have been obtained. Bonds may include but are not limited to Statutory, Performance & Maintenance Any work done without inspection will be required to be uncovered for inspection.*
9. *Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.*
10. *All storm water sewer lines and appurtenances shall be installed in accordance with the most recent edition of City of Wichita, Kansas Standard Specifications for the Construction of City Projects.*



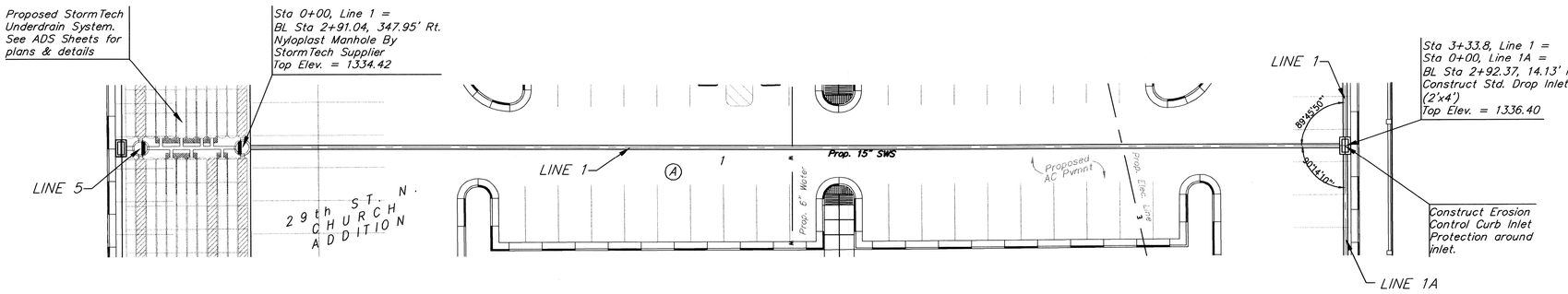
NO SCALE:

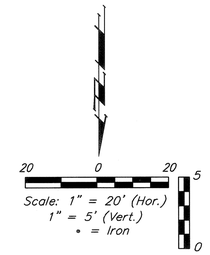
VICINITY MAP

Baughman

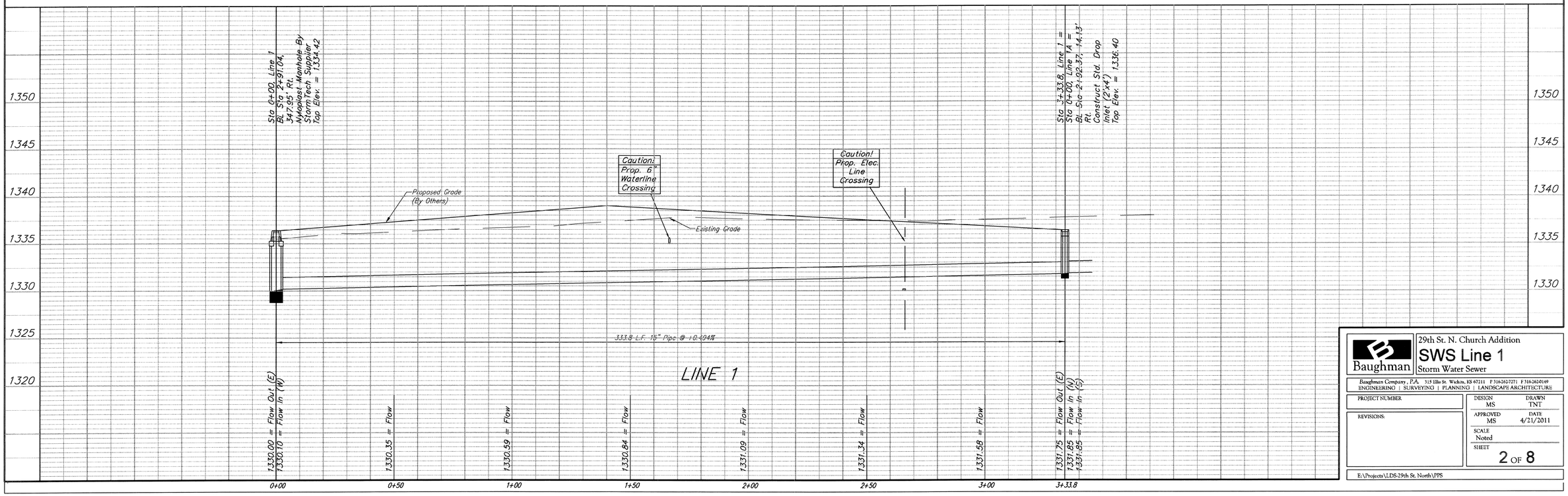
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

Benchmark:
Small RR Spike in N. side of P.P.
Elev. = 150.86 City Datum
Elev. = 1338.26 M.S.L.





Baseline Sta 0+00 = Soutwest corner of Property Line Lot 1 Block A of 29th St. N. Church Addition.



Baughman
Baughman Company, P.A. 315 Illio St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

29th St. N. Church Addition
SWS Line 1
Storm Water Sewer

PROJECT NUMBER

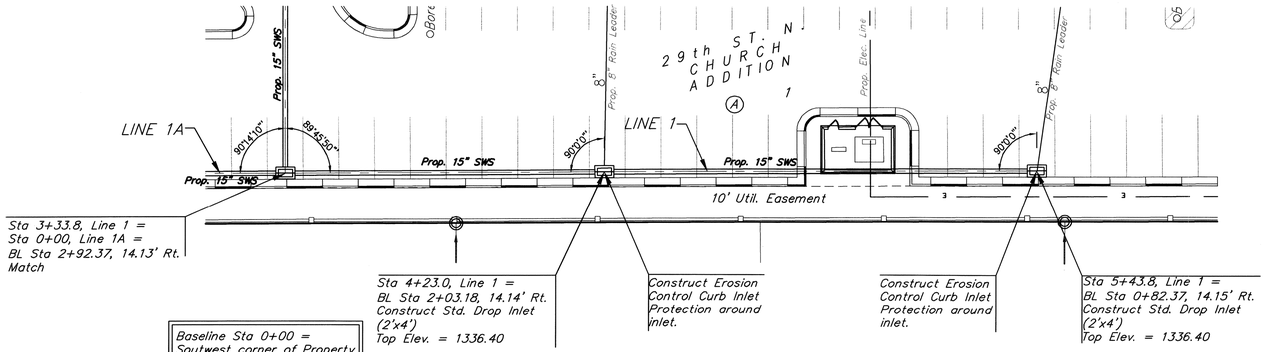
REVISIONS:

DESIGN MS | DRAWN TNT
APPROVED MS | DATE 4/21/2011
SCALE Noted
SHEET 2 OF 8

E:\Projects\LDS-29th St. North\PPS

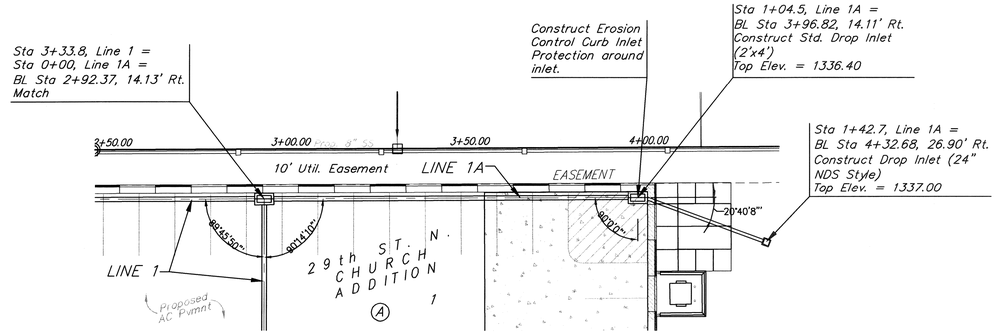
Benchmark:
Small RR Spike in N. side of P.P.
Elev. = 150.86 City Datum
Elev. = 1338.26 M.S.L.

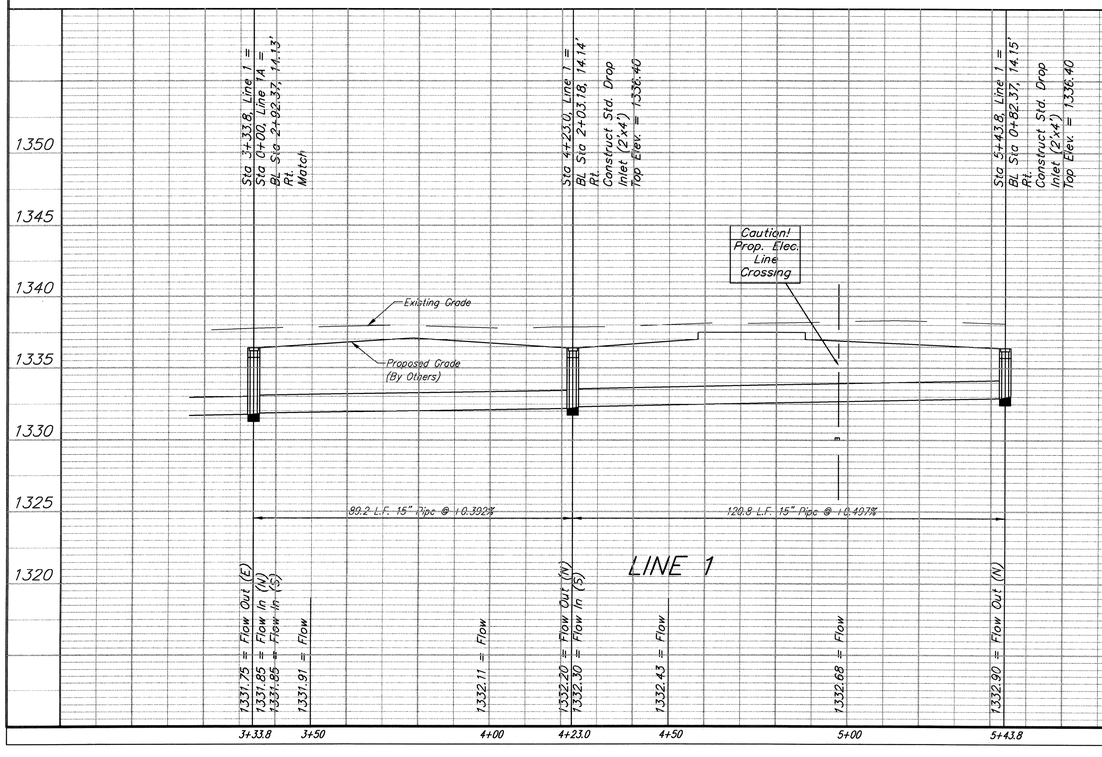
20 0 20 5
Scale: 1" = 20' (Hor.)
1" = 5' (Vert.)
• = Iron

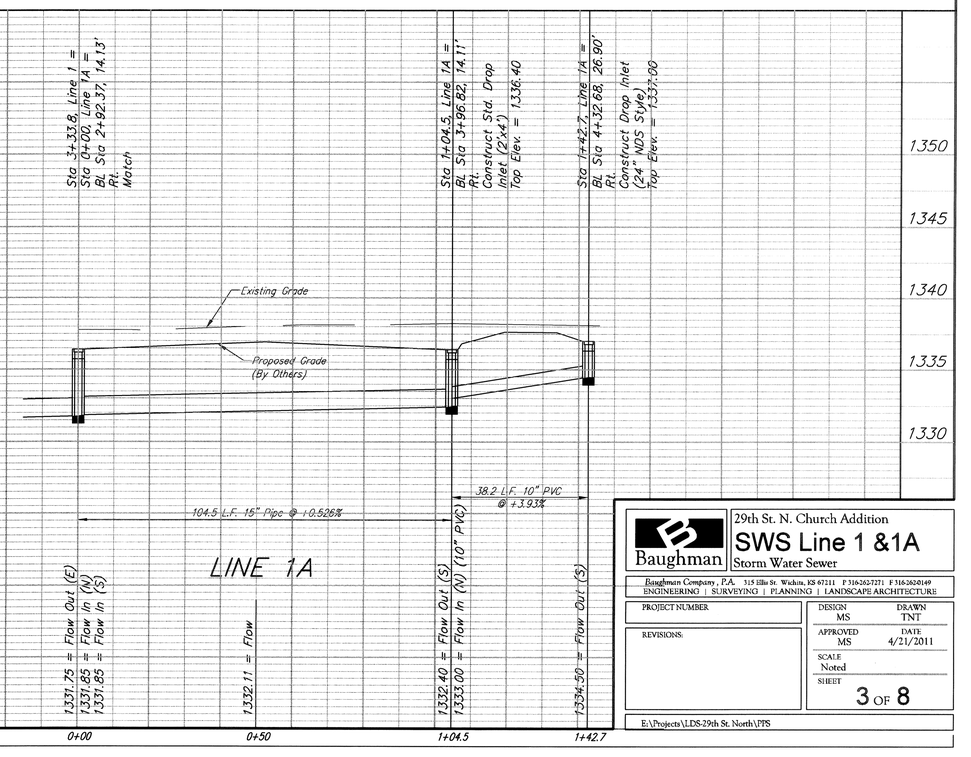


Baseline Sta 0+00 =
Soutwest corner of Property
Line Lot 1 Block A of 29th
St. N. Church Addition.

20 0 20 5
Scale: 1" = 20' (Hor.)
1" = 5' (Vert.)
• = Iron







MAXWELL WILLIAM JUMP
NUMBER
15629
04/24/2011
KANSAS
PROFESSIONAL ENGINEER

Baughman

29th St. N. Church Addition
SWS Line 1 &1A
Storm Water Sewer

Baughman Company, P.A. 315 Illis St Wichita, KS 67211 P 316.262.7271 F 316.262.0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER

REVISIONS:

DESIGN MS | DRAWN TNT
APPROVED MS | DATE 4/21/2011
SCALE Noted
SHEET 3 OF 8

E:\Projects\LDS-29th St. North\PTS

Baughman

29th St. N. Church Addition

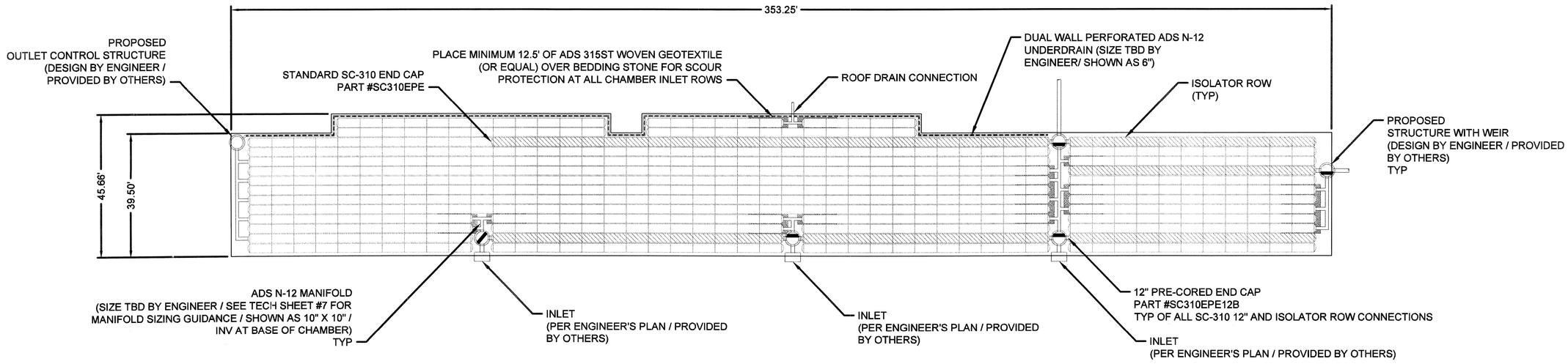
SWS Lines 2-6

Storm Water Sewer

Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER	DESIGN MS	DRAWN TNT
REVISIONS:	APPROVED MS	DATE 4/21/2011
	SCALE Noted	SHEET 4 OF 8

E:\Projects\LDS-29th St. North\PPS



CONCEPTUAL LAYOUT:

(603) STORMTECH SC-310-3 CHAMBERS (3" SPACING)
INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 40% STONE VOID
INSTALLLED SYSTEM VOLUME (INCLUDING PERIMETER STONE): 19,393 CF

PROPOSED ELEVATIONS

~~MAX. GRADE (TOP OF PAVEMENT/UNPAVED):~~	~~1339.33~~
~~MIN. GRADE (UNPAVED WITH TRAFFIC):~~	~~1333.33~~
~~MIN. GRADE (BASE OF FLEXIBLE PAVEMENT/UNPAVED):~~	~~1332.83~~
MAX. GRADE (TOP OF REINFORCED CONCRETE PAVEMENT):	1333.50
TOP OF STONE:	1331.83
TOP OF CHAMBER:	1331.33
10" MANIFOLD INVERT:	1330.06
12" INVERT TO ISOLATOR ROW(S):	1330.08
BOTTOM OF CHAMBER:	1330.00
BOTTOM OF STONE:	1329.50
UNDERDRAIN:	1329.50

StormTech®
Detention+Retention+Recharge
Subsurface Stormwater Management™
20 BEAVER RD, SUITE 104 | WETHERSFIELD | CT | 06109
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

LDS CHURCH WICHITA KS

DATE: 02-21-11 | PROJECT #: 13221
DRAWN BY: AJD | SCALE: NTS
CHECKED BY: KAM | PAGE: 5 OF 8

DESCRIPTION	CHK	DRN	DATE
LAYOUT REVISED TO MEET FLOW RATE BASED WQ	KAM	KLJ	02/24/11
ADDED UNDERDRAIN AND ELEVATIONS	KAM	KAM	3-2-11

ADS
ADVANCED DRAINAGE SYSTEMS, INC.

STORMTECH GENERAL NOTES

1. STORMTECH REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
2. OUR TECHNICAL SERVICES DEPARTMENT OFFERS INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVICES REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTIONS OR ADDRESS COMMENTS ON THE STORMTECH CHAMBER SYSTEM AND INFORM THE INSTALLING CONTRACTOR OF THE MINIMUM INSTALLATION REQUIREMENTS BEFORE BEGINNING THE SYSTEM'S CONSTRUCTION. CALL **1-888-892-2694** TO SPEAK TO A TECHNICAL SERVICES REPRESENTATIVE OR VISIT **WWW. STORMTECH.COM** TO RECEIVE A COPY OF OUR INSTALLATION INSTRUCTIONS.
3. STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.):MINIMUM COVER IS 18" [457 mm] NOT INCLUDING PAVEMENT; MAXIMUM COVER IS 96" [2438 mm] INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24" [610 mm], MAXIMUM COVER IS 96" [2.438 m].
4. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
5. AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.
6. STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
7. BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
8. THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: **WWW.STORMTECH.COM**. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
9. THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.
10. STORMTECH PRODUCT WARRANTY IS LIMITED. SEE CURRENT PRODUCT WARRANTY FOR DETAILS. TO ACQUIRE A COPY CALL STORMTECH AT **1-888-892-2694** OR VISIT **WWW.STORMTECH.COM**

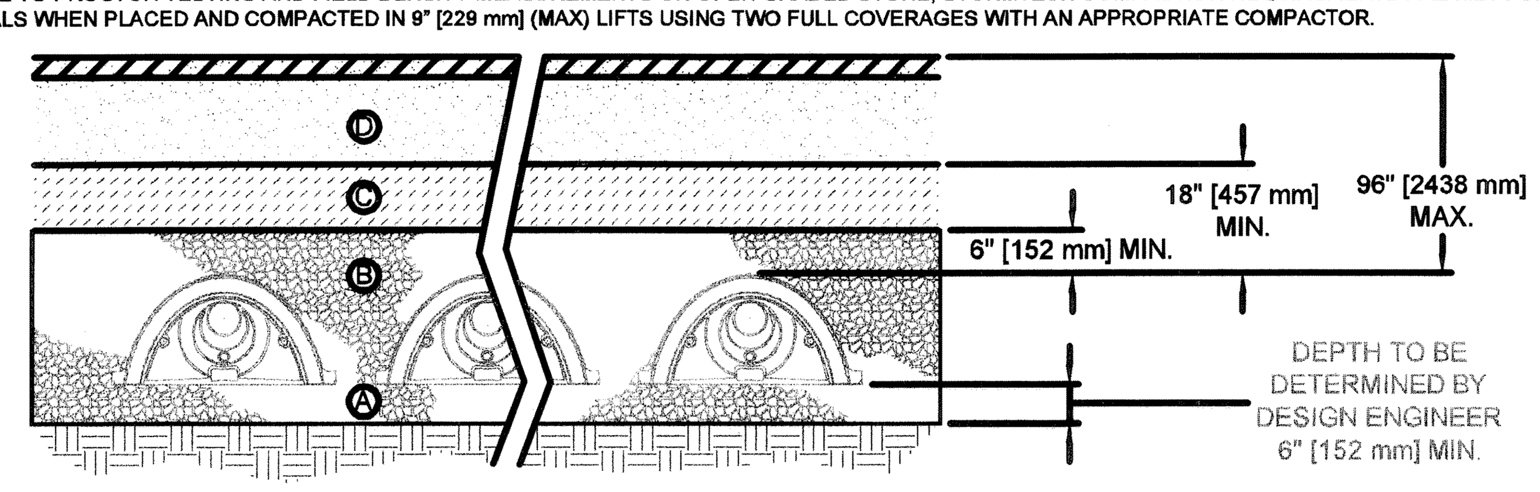
STORMTECH GENERAL NOTES — SCALE: N/A — DATE: 3/30/10 — DRAWN BY: KLJ — CHECKED:

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION [1]	COMPACTION/DENSITY REQUIREMENT
(D) FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUB-BASE MAY BE PART OF THIS LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
(C) FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE TO 18" [457 mm] ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUB-BASE MAY BE A PART OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, < 35% FINES. MOST PAVEMENT SUB-BASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTION AFTER 12" [305 mm] OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" [152 mm] LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs [53 kN]. DYNAMIC FORCE NOT TO EXCEED 20,000 lbs [89 kN].
(B) EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH [19 - 51 mm]	3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
(A) FOUNDATION STONE BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH [19 - 51 mm]	3, 35, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY [2].

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".

2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" [229 mm] (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.

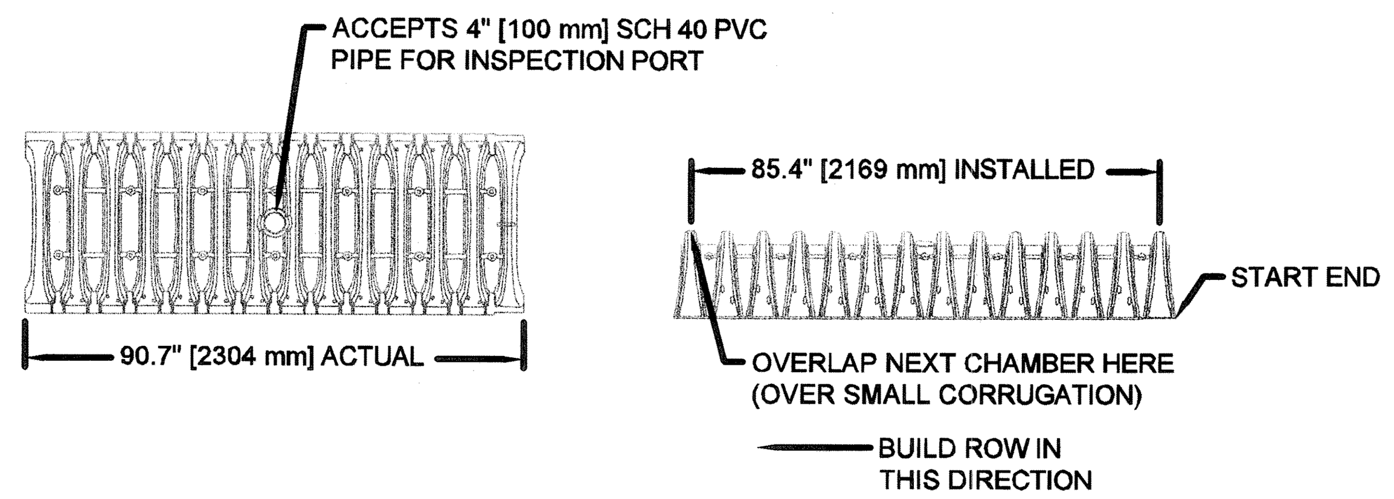


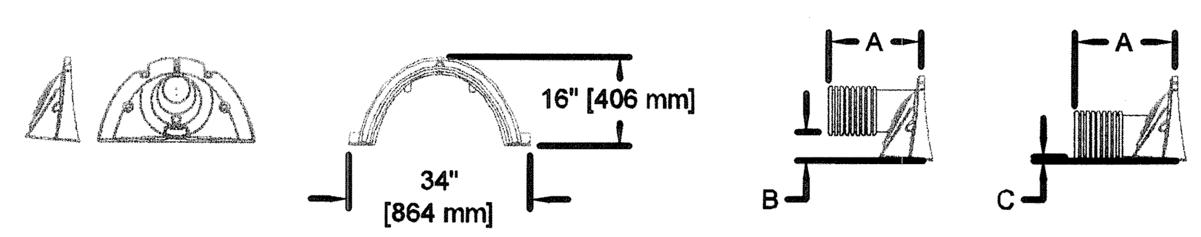
STORMTECH ACCEPTABLE FILL — SCALE: NTS — DATE: 3/30/10 — DRAWN BY: KLJ — CHECKED:

STORMWATER CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740, SC-310 OR APPROVED EQUAL.
2. CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.
5. ONLY CHAMBERS THAT ARE APPROVED BY THE ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT (3 SETS) OF THE FOLLOWING TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   a. A STRUCTURAL EVALUATION BY A REGISTERED STRUCTURAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET. THE 50-YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418-05 MUST BE USED AS A PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
6. CHAMBERS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
7. ALL DESIGN SPECIFICATIONS FOR CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST DESIGN MANUAL.
8. THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.

STORMWATER CHAMBER SPECIFICATIONS — SCALE: N/A — DATE: 3/30/10 — DRAWN BY: KLJ — CHECKED:





NOMINAL CHAMBER SPECIFICATIONS

SIZE (W x H x INSTALLED LENGTH)	34.0" x 16.0" x 85.4" [864 mm x 406 mm x 2169 mm]
CHAMBER STORAGE	14.7 CUBIC FEET [0.42 m³]
MINIMUM INSTALLED STORAGE	31.0 CUBIC FEET [0.88 m³]
WEIGHT	35 lbs. [16.8 kg]

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

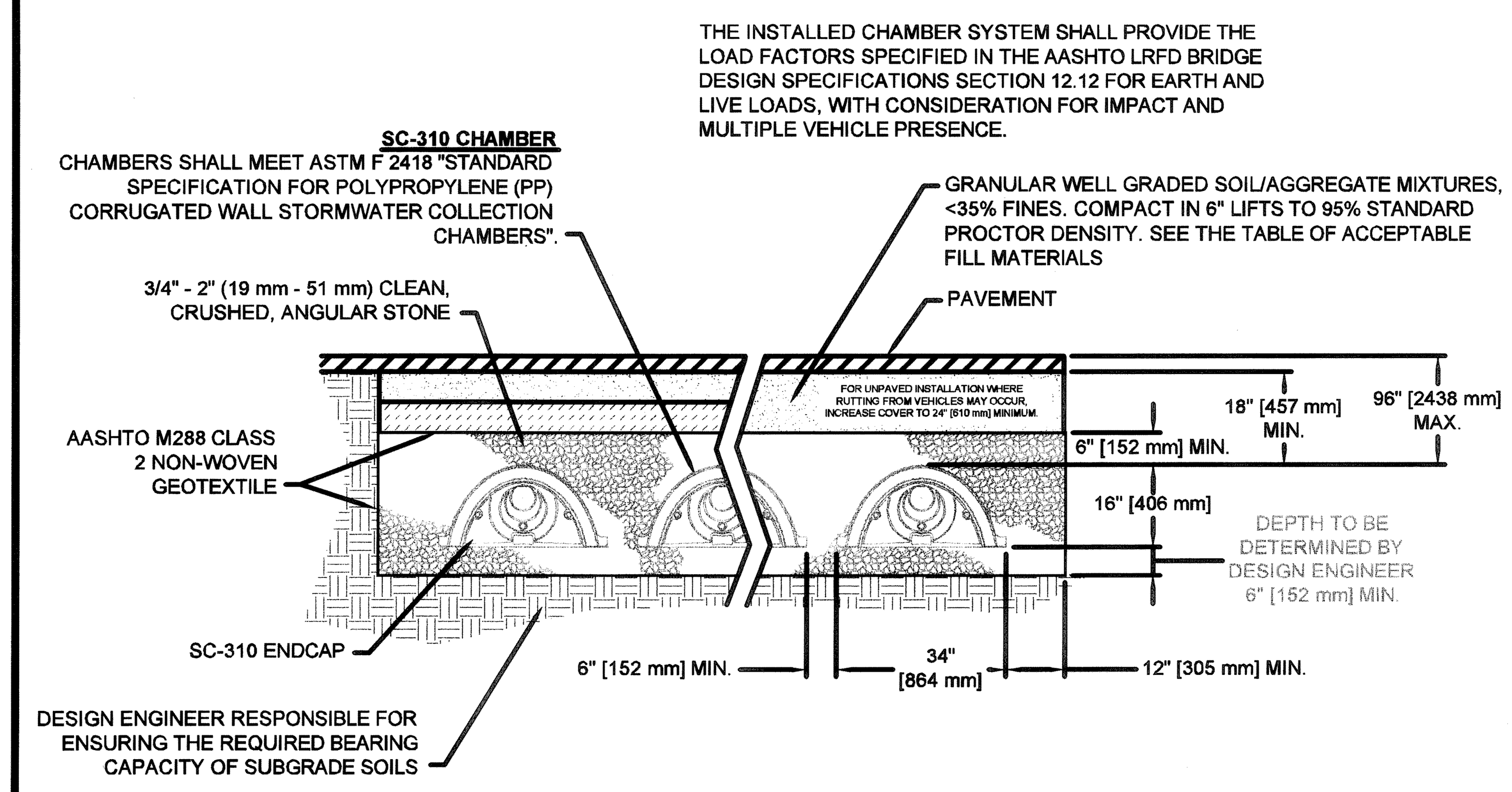
PART#	STUB	A	B	C
SC310EPE06T	6" [150 mm]	9.60" [244 mm]	5.80" [147 mm]	N/A
SC310EPE06B	6" [150 mm]	9.60" [244 mm]	N/A	0.50" [13 mm]
SC310EPE08T	8" [200 mm]	11.90" [302 mm]	3.50" [89 mm]	N/A
SC310EPE08B	8" [200 mm]	11.90" [302 mm]	N/A	0.60" [15 mm]
SC310EPE10T	10" [250 mm]	12.70" [323 mm]	1.40" [36 mm]	N/A
SC310EPE10B	10" [250 mm]	12.70" [323 mm]	N/A	0.70" [18 mm]
*SC310EPE12B	12" [300 mm]	13.50" [343 mm]	N/A	0.90" [23 mm]

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

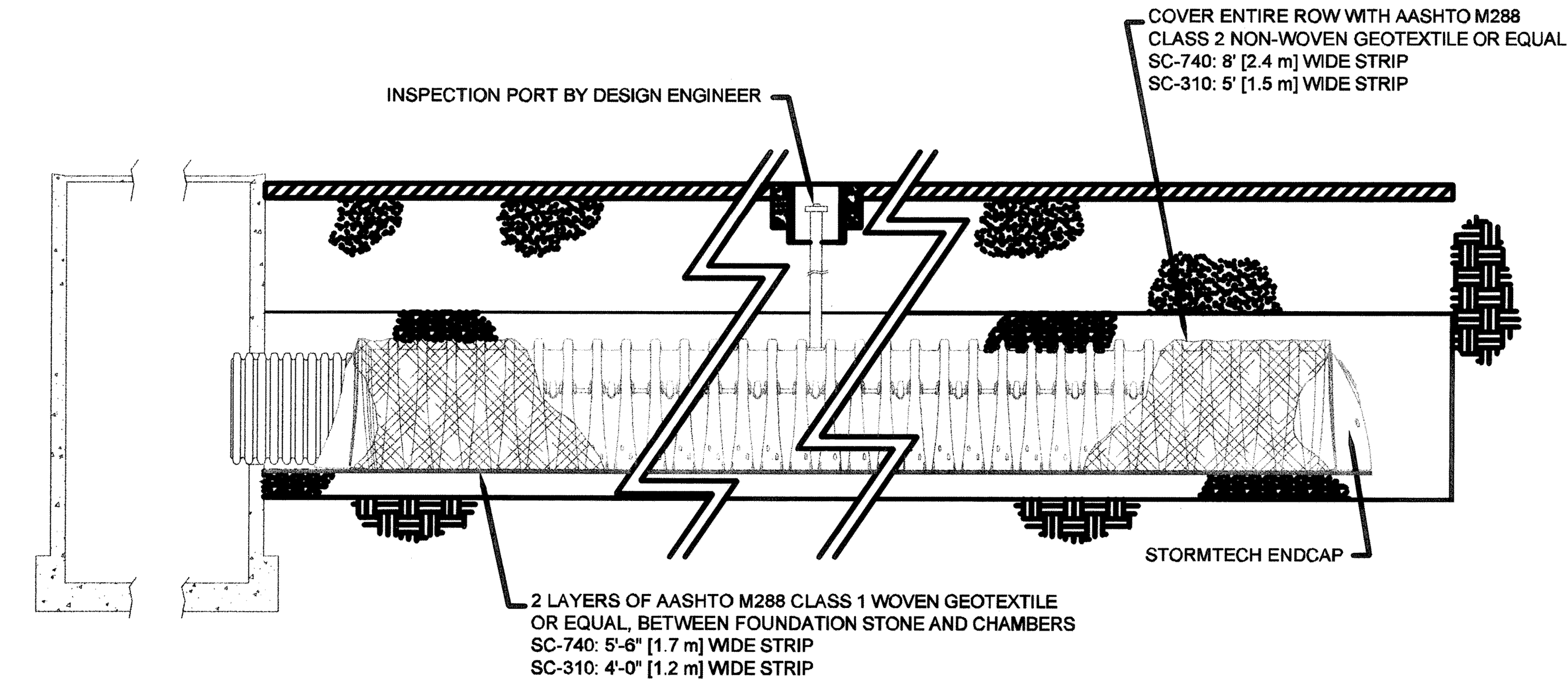
*FOR THE SC310EPE12B THE 12" [300 mm] STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" [6 mm]. BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

SC-310 TECHNICAL SPECIFICATIONS — SCALE: NTS — DATE: 3/30/10 — DRAWN BY: KLJ — CHECKED:



SC-310 TYPICAL CROSS SECTION — SCALE: NTS — DATE: 3/30/10 — DRAWN BY: KLJ — CHECKED:



ISOLATOR™ ROW PROFILE — SCALE: NTS — DATE: 3/30/10 — DRAWN BY: KLJ — CHECKED:

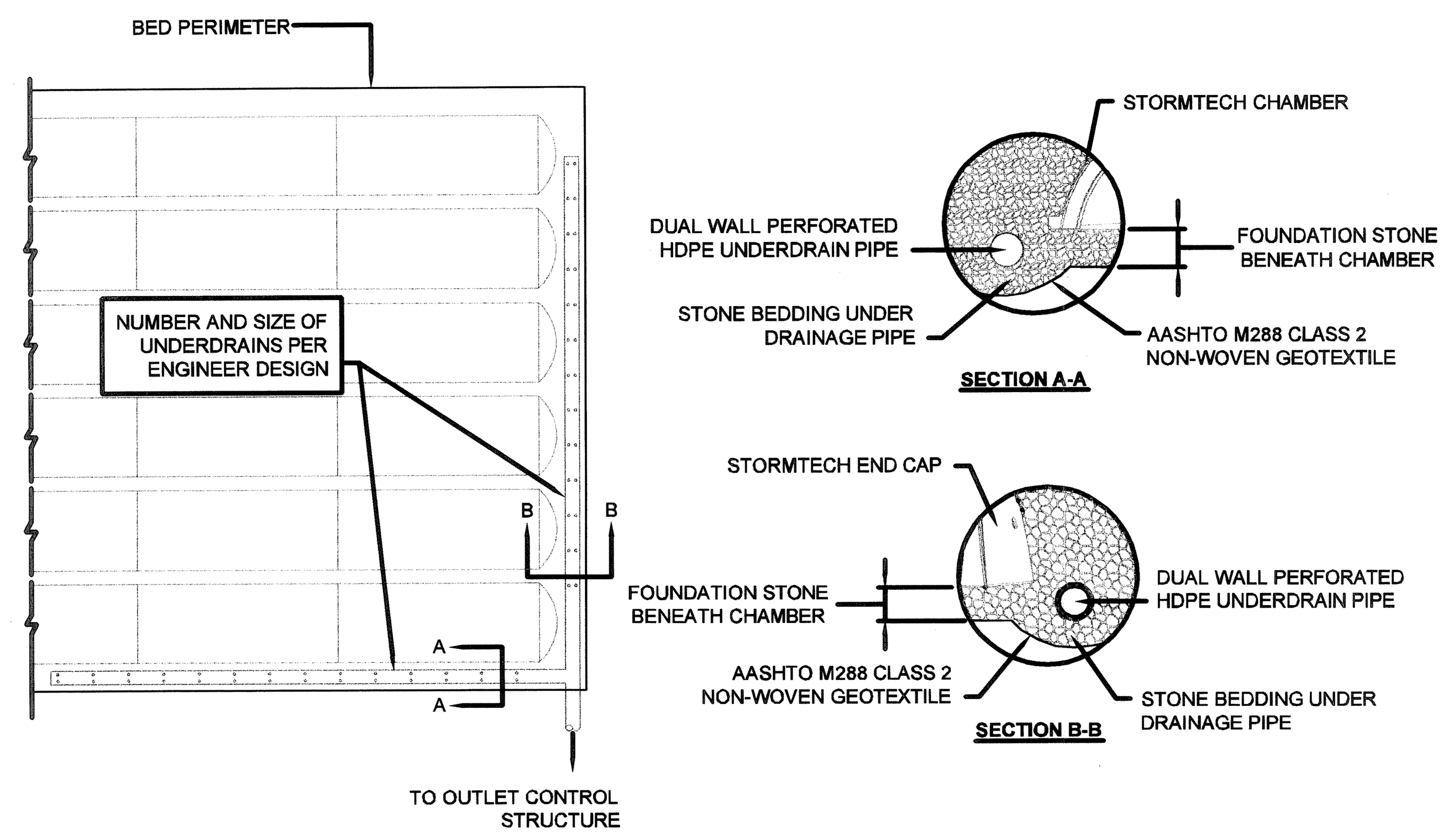
StormTech® Detention•Retention•Recharge
Subsurface Stormwater Management℠
20 BEAVER RD, SUITE 104 | WETHERSFIELD | CT | 06109
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

LDS CHURCH WICHITA KS

DATE: 02-21-11	PROJECT #: 13221
DRAWN BY: AJD	SCALE: NTS
CHECKED BY: KAM	PAGE: 6 OF 8

DATE	DRN	CHK	DESCRIPTION
02/24/11	KLJ	KAM	LAYOUT REVISED TO MEET FLOW RATE BASED WQ
3-2-11	KAM	KAM	ADDED UNDERDRAIN AND ELEVATIONS

ADS ADVANCED DRAINAGE SYSTEMS, INC.



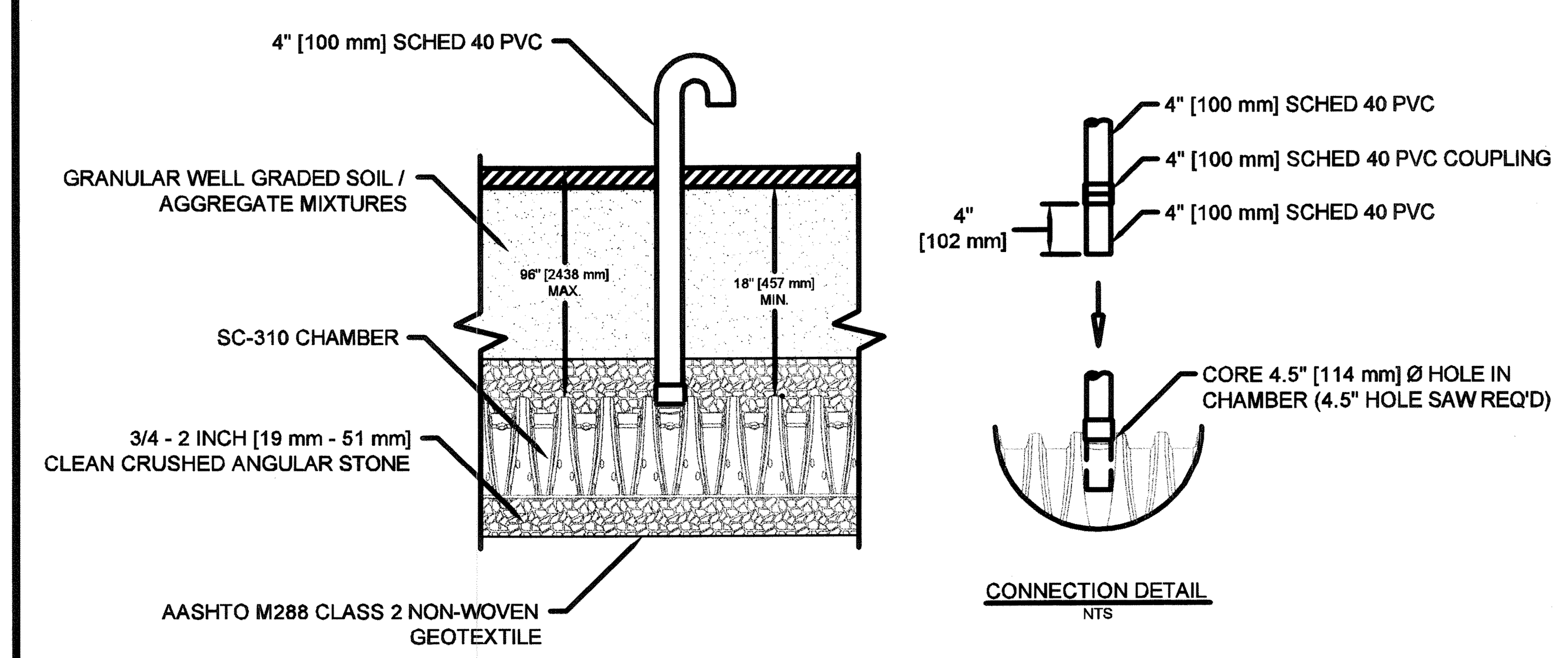
ADS ADVANCED DRAINAGE SYSTEMS, INC.

THE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

StormTech Subsurface Stormwater Management
20 BEAVER ROAD, SUITE 104 | WETHERSFIELD, CT 06109
PHONE: 888-892-2694 | FAX: 866-328-8401
WWW.STORMTECH.COM

SC-310 UNDERDRAIN DETAIL	
SCALE:	NTS
DATE:	3/30/10
DRAWN BY:	KLJ
CHECKED:	

NOTES:
1. VENT MUST BE CONNECTED THROUGH KNOCK-OUT LOCATED AT CENTER OF CHAMBER.
2. VENT MAY ALSO BE CONNECTED AS PERFORATED PIPE THROUGH STONE.
3. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.



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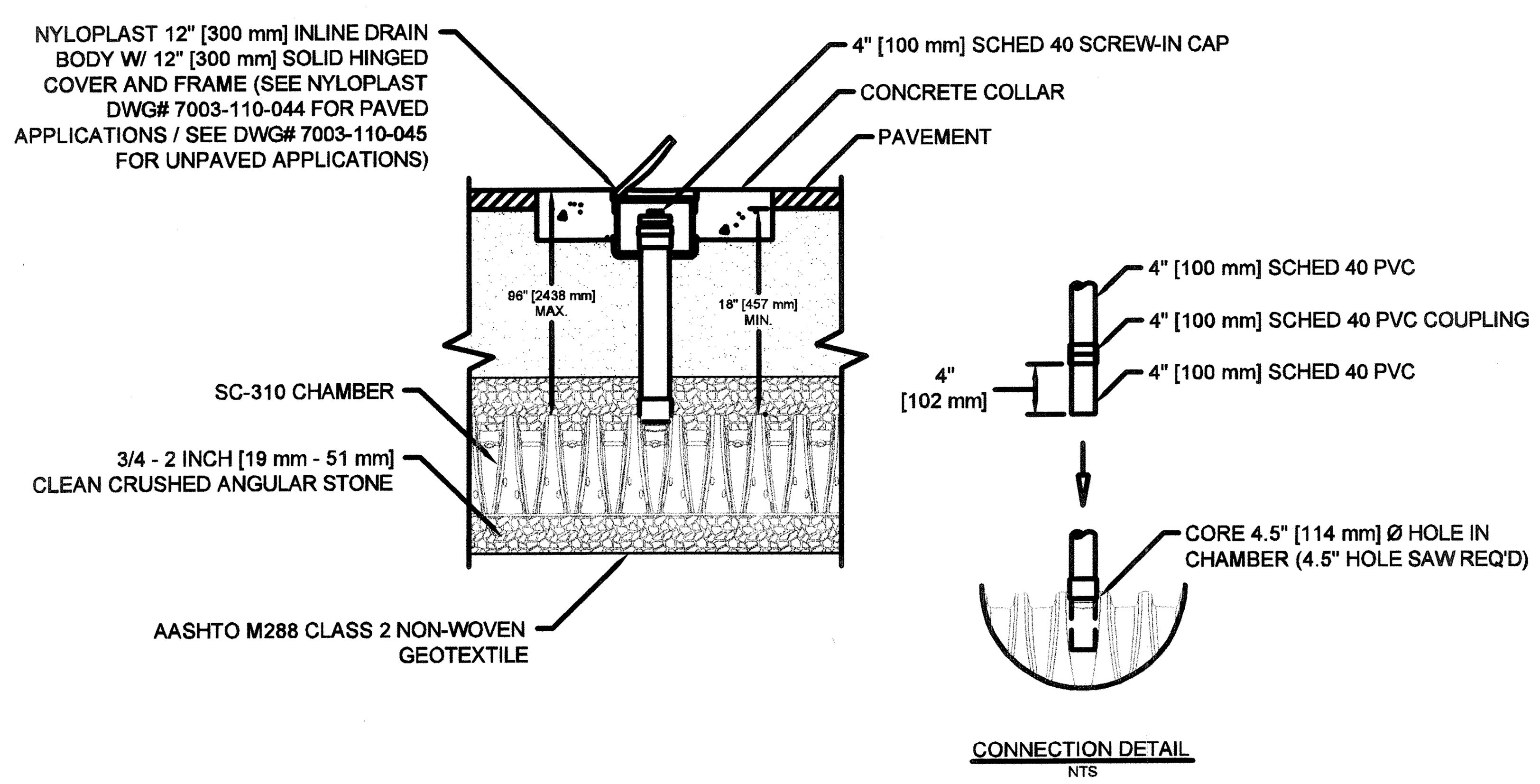
WWW.STORMTECH.COM

SC-310 VENT DETAIL	
SCALE:	NTS
DATE:	3/30/10
DRAWN BY:	KLJ
CHECKED:	

NOTES:
1. INSPECTION PORT MUST BE CONNECTED THROUGH KNOCK-OUT LOCATED AT CENTER OF CHAMBER.
2. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.



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PHONE: 888-892-2694 | FAX: 866-328-8401
WWW.STORMTECH.COM

SC-310 INSPECTION PORT DETAIL	
SCALE:	NTS
DATE:	3/30/10
DRAWN BY:	KLJ
CHECKED:	

StormTech® Detention•Retention•Recharge
Subsurface Stormwater Management℠
20 BEAVER RD, SUITE 104 | WETHERSFIELD | CT | 06109
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

LDS CHURCH WICHITA KS

DATE:	02-21-11
PROJECT #:	13221
DRAWN BY:	AJD
SCALE:	NTS
CHECKED BY:	KAM
PAGE:	7 OF 8

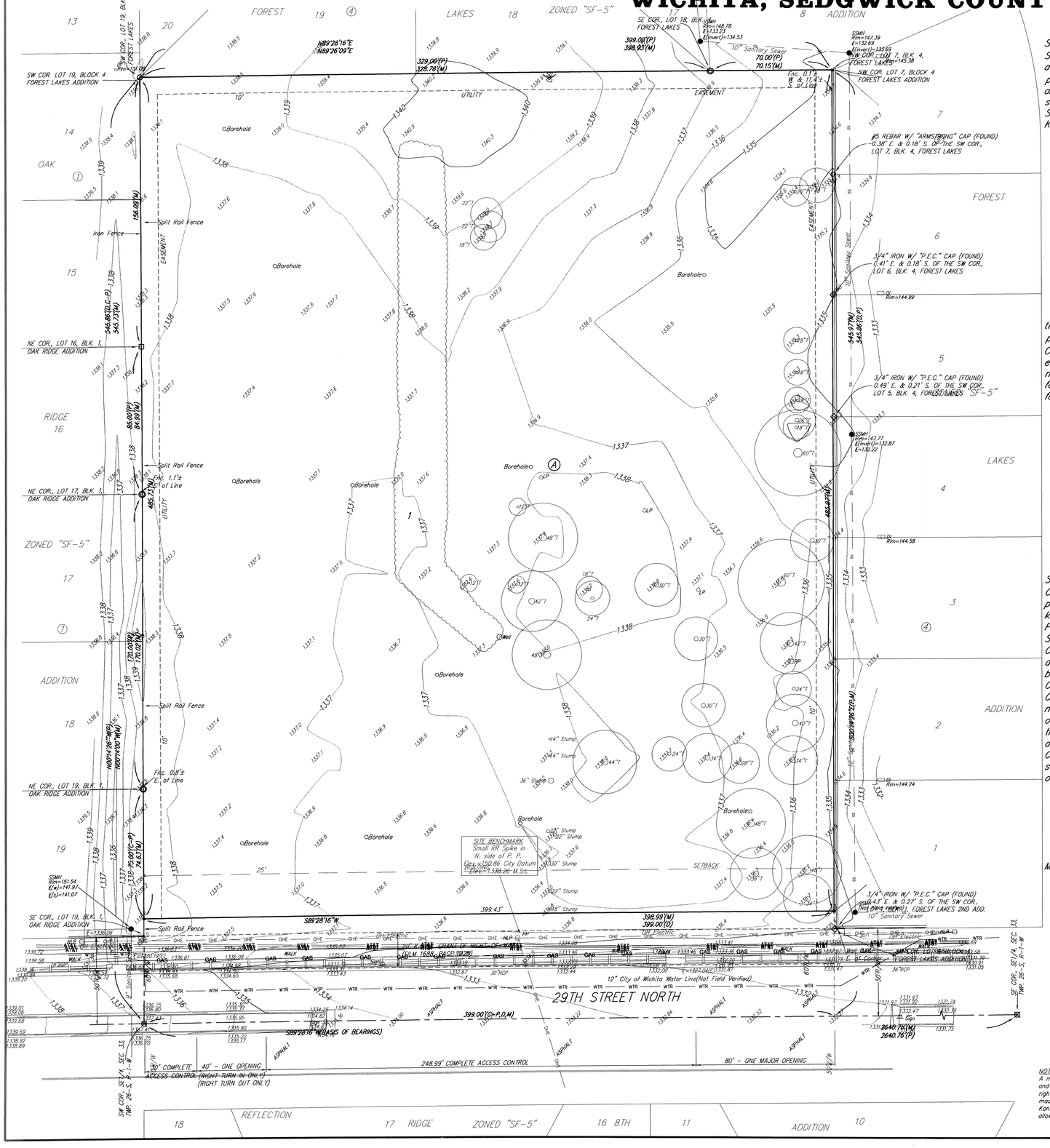
DATE	DRN	CHK	DESCRIPTION
02/24/11	KLJ	KAM	LAYOUT REVISED TO MEET FLOW RATE BASED WQ
3-2-11	KAM	KAM	ADDED UNDERDRAIN AND ELEVATIONS

ADS ADVANCED DRAINAGE SYSTEMS, INC.

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO STORMTECH UNDER THE DIRECTION OF THE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

29TH ST. N. CHURCH ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



State of Kansas)
Sedgwick County) SS

We, Baughman Company, P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "29TH ST. N. CHURCH ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as the south 545.86 feet of the west 399 feet of the SE1/4 of Sec. 33, Twp. 26-S, R-1-W of the 6th P.M., Sedgwick County, Kansas, except any portion thereof used for highway or road.

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

Baughman Company, P.A.

_____, Surveyor
Michael G. Conrey

Know all men by these presents that we, the undersigned, have caused the land in the surveyors certificate to be platted into a Lot, a Block, and a Street, to be known as "29TH ST. N. CHURCH ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The street is hereby dedicated to and for the use of the public. Access controls shall be as depicted on the face of the plat and are hereby granted to the City of Wichita, Kansas.

CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, a Utah corporation sole, successor by merger of the Kansas Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter-day Saints, a Utah corporation sole

_____, Authorized Agent

State of Utah)
County of Salt Lake) SS On this_____day of_____, 2004, personally appeared before me_____, personally known to me to be the Authorized Agent of the CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, a Utah corporation sole, successor by merger of the Kansas Corporation of the Presiding Bishop of the Church of Jesus of Latter-day Saints, a Utah corporation sole, who acknowledged before me that be signed the foregoing instrument as Authorized Agent for the CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, a Utah corporation sole, successor by merger of the Kansas Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter-Day Saints, a Utah corporation sole, and that the seal impressed on the within instrument is the seal of said Corporation; and that said instrument is the free and voluntary act of said Corporation, for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument on behalf of said Corporation and that said Corporation executed the same.

Notary Public in and _____, for The State of Utah

My App't. Exp. _____

- = #4 REBAR W/ "BAUGHMAN" CAP (SET)
- = #5 REBAR W/ "ARMSTRONG" CAP (FOUND)
- = #4 REBAR W/ "S.R.B." CAP (FOUND)
- = 1/2" IRON (FOUND)
- = 1/2" IRON W/ "P.E.C." CAP (FOUND)
- = 1/2" IRON IN THIMBLE (FOUND)
- = 3/4" IRON W/ "P.E.C." CAP (FOUND)

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

0 30 60

AREA BASED ON MEASURED BOUNDARY TO SECTION LINE = 2177712.992 SQ. FT. (4.999± ACRES)

AREA BASED ON MEASURED BOUNDARY TO PREVIOUS 30' RIGHT-OF-WAY = 2058303.049 SQ. FT. (4.725± ACRES)

NET AREA BASED ON MEASURED BOUNDARY: LOT 1, BLOCK A = 1938313.221 SQ. FT. (4.450± ACRES)

NOTE:
A master grading plan for drainage has been developed for this subdivision and is on file with the City of Wichita, Kansas. All drainage easements, right-of-ways, or reserves shall remain at established grades or as modified with the approval of the City Engineer of the City of Wichita, Kansas. No obstructions which impede the flow of this drainage system be allowed.

This plat of "29TH ST. N. CHURCH ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this_____day of_____, _____.
Wichita-Sedgwick County Metropolitan Area Planning Commission

_____, Chair
Bernard A. Hentzen

_____, Secretary
John L. Schlegel

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this_____day of_____, 2004.

_____, Mayor
Carlos Mayans

_____, City Clerk
Karen Schofield

Reviewed in accordance with K.S.A. 58-2005 on this_____day of_____, 2004.

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

Entered on transfer record this_____day of_____, 2004.

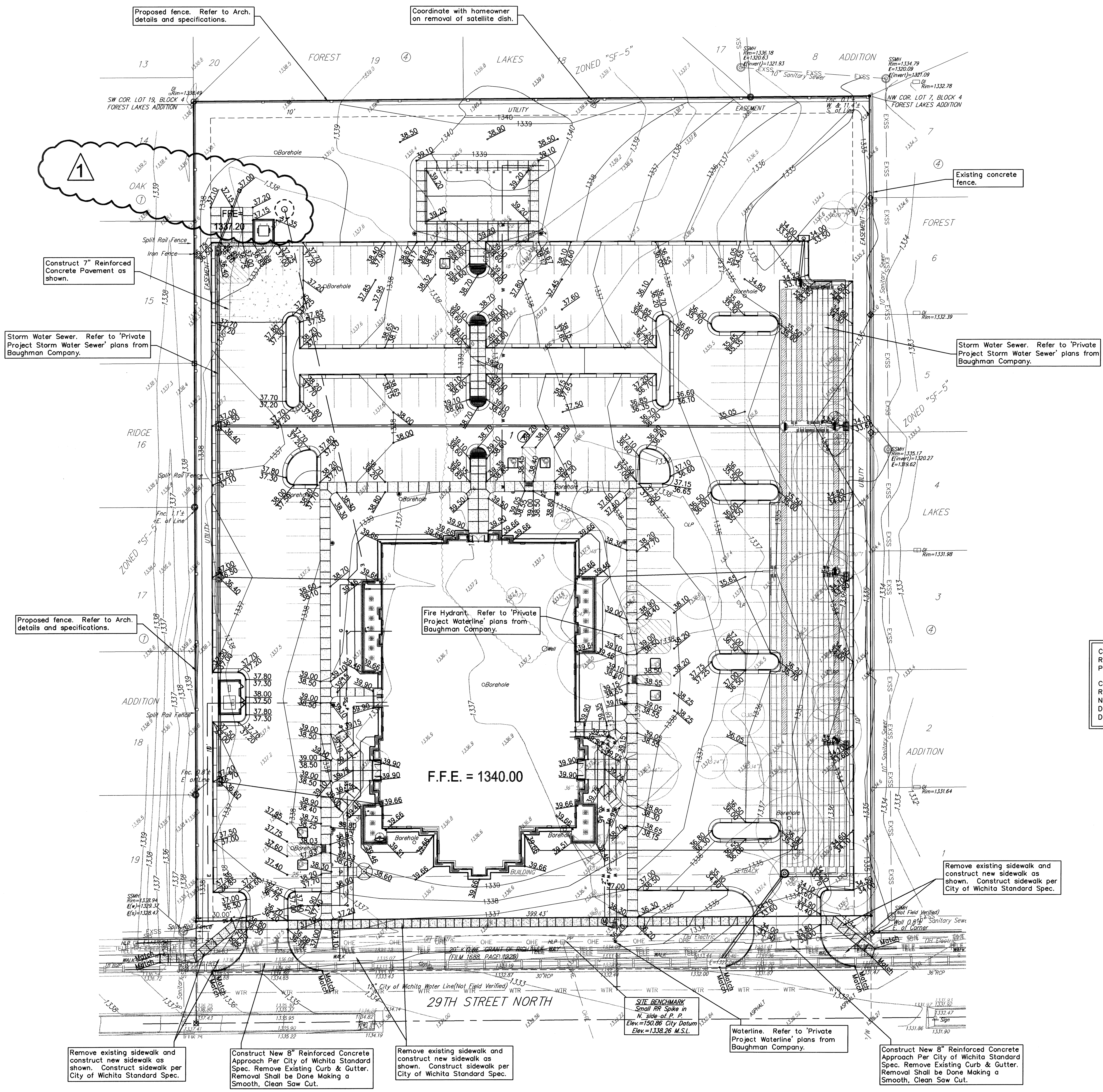
_____, County Clerk
Don Brace

State of Kansas)
Sedgwick County) SS This is to certify that this plat has been filed for record in the office of the Register of Deeds, this_____day of_____, 2004 at_____o'clock__M; and is duly recorded.

_____, Register of Deeds
Bill Meek

_____, Deputy
Linda Kizzire

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211
F:\PLAT\29TH ST N CHURCH\DWG\29THSTNF DWG-MOD



GRADING NOTES

1. Contractor shall be required to provide notice to Kansas One Call at 687-2470 a minimum of two (2) working days prior to any excavation or work adjacent to utilities.

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

   Black Hills Energy (Gas)....................1-800-303-0357
   Westar Energy (Electric)....................383-8650
   Cox Communications (Cablevision)....................262-4270
   AT&T (Phone)....................268-2759
   City of Wichita Water Dept. (Water)....................268-4563 or 268-4908
   City of Wichita Sewer Maint.(San. Sewer)....................268-4024 or 262-6000
   City of Wichita Storm Sewer Maint. (Storm Sewer)......268-4090
   City of Wich Traffic Maint.(Traf. Control)....................268-4034 or 268-4203

3. Existing utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.

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

5. The Contractor shall verify all utility locations prior to construction of this project.

6. Refer to Landscape Plans and Specifications for Treatment of All Disturbed Areas.

7. Signing and striping shall be installed Per Approved Specifications.

8. Paved Lot to be constructed Per Approved Specifications.

9. The Contractor shall notify adjacent landowners prior to proceeding with any construction work on landowner's property.

10. Cross-Slopes on sidewalks around building shall not exceed 1/4" per foot (or 2%). Notify Engineer of any discrepancies prior to forming of walks.

BENCHMARK

Site Benchmark – 1:
Small Railroad Spike in North side of Power Pole.
Elevation = 1338.26 (M.S.L.)

LEGAL DESCRIPTION

Lot 1, Block A, 29TH ST. N. CHURCH ADDITION, Wichita, Sedgwick County, Kansas.

Concrete Pavement Details:
Refer to Details sheet C701, Detail F, for "Concrete Paving".

Concrete Joint Layout:
Refer to Details sheet C702 for "Concrete Pavement Notes Where Concrete Paving is Used". Also refer to Detail H on sheet C702 for "Concrete Paving Joint Details".

LEGEND:

7" CONCRETE PAVEMENT
5.5" CONCRETE PAVEMENT
NEW SIDEWALK IN STREET RIGHT-OF-WAY

Baughman
ENGINEERING | SURVEYING | PLANNING LANDSCAPE ARCHITECTURE
Baughman Company, P.A.
315 Ellis Wichita, KS 67211
P316-262-7271 F316-262-0149

SITE PLAN GRADING PLAN

Scale 1"= 30'0"
0 15 30 60

Architect / Engineer:
nbw architects p.a.
ARCHITECTURE / PLANNING / INTERIORS
SCOTT L NIELSON, A.I.A. KEVIN R. BODILY, A.I.A. JAMES H. WYATT, A.I.A.
990 JOHN ADAMS PARKWAY P.O. BOX 2212 - IDAHO FALLS, IDAHO 83402-2212
(P) 208-522-8779 (F) 208-522-8785 (W) www.nbwarchitects.com

Stamp:

Maize Ward
Wichita Kansas Stake
7834 W. 29th Street North
Wichita, Kansas

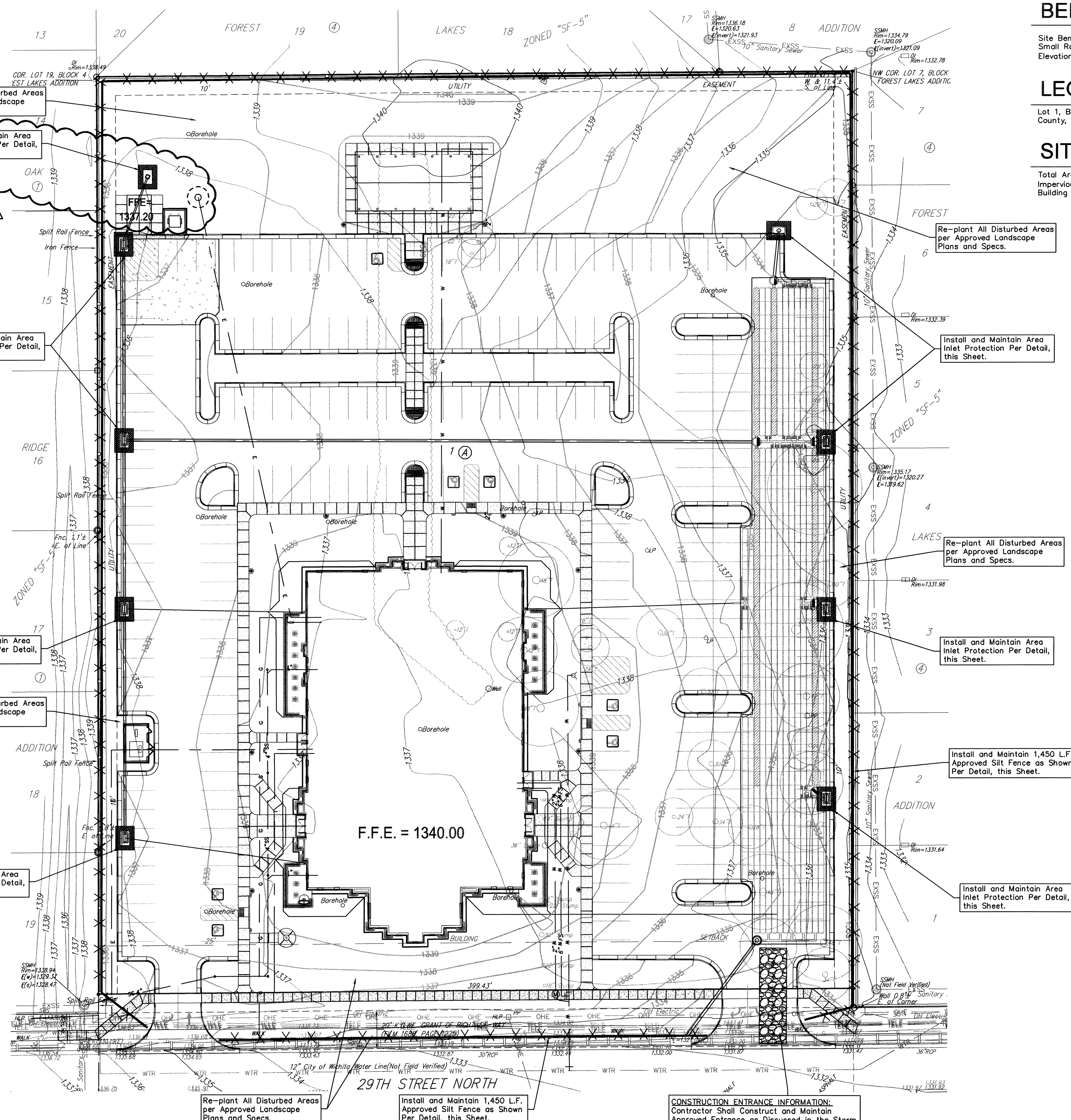
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (D-M-Y)	Description
1	26-APR-11	Added sws line under shed

Project Number: 1045-1518
Plan Series: HER-09T-SC-DS-01
Property Number: 578-3488

Sheet Title: SITE PLAN GRADING PLAN

Sheet: C705



BENCHMARK

Site Benchmark – 1:
Small Railroad Spike in North side of Power Pole.
Elevation = 1338.26 (M.S.L.)

LEGAL DESCRIPTION

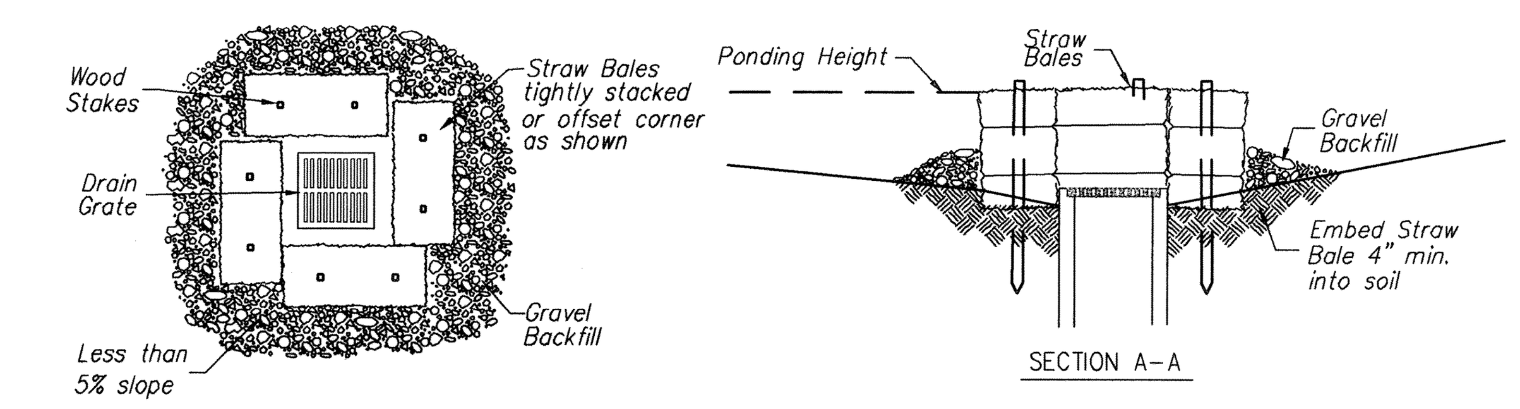
Lot 1, Block A, 29TH ST. N. CHURCH ADDITION, Wichita, Sedgwick County, Kansas.

SITE INFORMATION

Total Area: 193,855.38 sq. ft. (4.45 acres)
Impervious Area: ±134,508 sq. ft. (3.1 acres)
Building Area: 20,717 sq. ft.

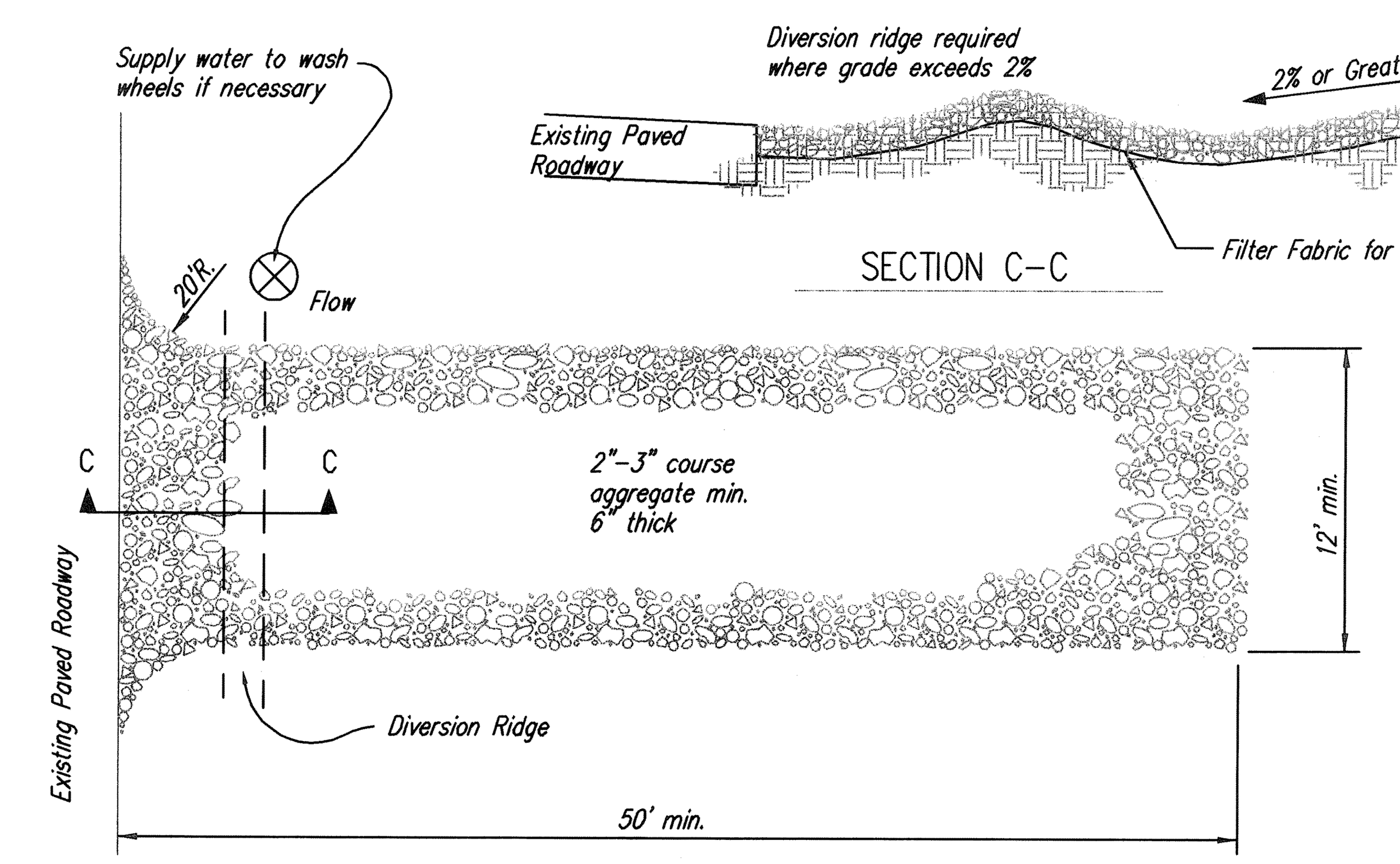
EROSION CONTROL NOTES

1. No land clearing or grading shall begin until all applicable erosion control measures have been installed. This project is subject to this SWPP Plan. The Contractor shall comply with any unusual requirements as necessary for the site to be in compliance during construction, per this plan and City specs (See #10).
2. All exposed areas shall be seeded as specified within 30 days of final GRADING per Landscape Plans and Specifications.
3. Should construction stop for longer than 15 days, the site shall be seeded per Landscape Plans and Specifications.
4. Maintain erosion control measures after each rain and at least once a week.
5. This plan shall not be considered all inclusive as the contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
6. Contractor shall comply with all state and local ordinances that apply.
7. Additional erosion and sediment control measures will be installed if deemed necessary by on site inspection.
8. Land disturbing activities shall not commence until approval to do so has been received by governing authorities.
9. If installation of storm drainage system should be interrupted by weather or nightfall, the pipe ends shall be covered with filter fabric.
10. This SWPP Plan should be in job trailer and/or on site at all times. The Contractor is responsible for any needed changes, updates or maintenance to BMP's on site. This plan may change and updates need to be recorded and documented on the plan. This plan is a flexible plan, due to changing site conditions and weather. Please inform Landscape Architect and/or Engineer of changes to plan.
11. ANY substitutions for the sediment control devices shown, must be approved by the Landscape Architect and/or Engineer prior to any uses on site.
12. An NPDES Permit Application has been submitted for this property. A copy of this application must be kept at the job site for the duration of the construction process.



2 STRAW BALE BARRIERS FOR AREA INLETS *and CURB INLETS*

NOT TO SCALE (Silt Fence may be used in lieu of Straw Bales)

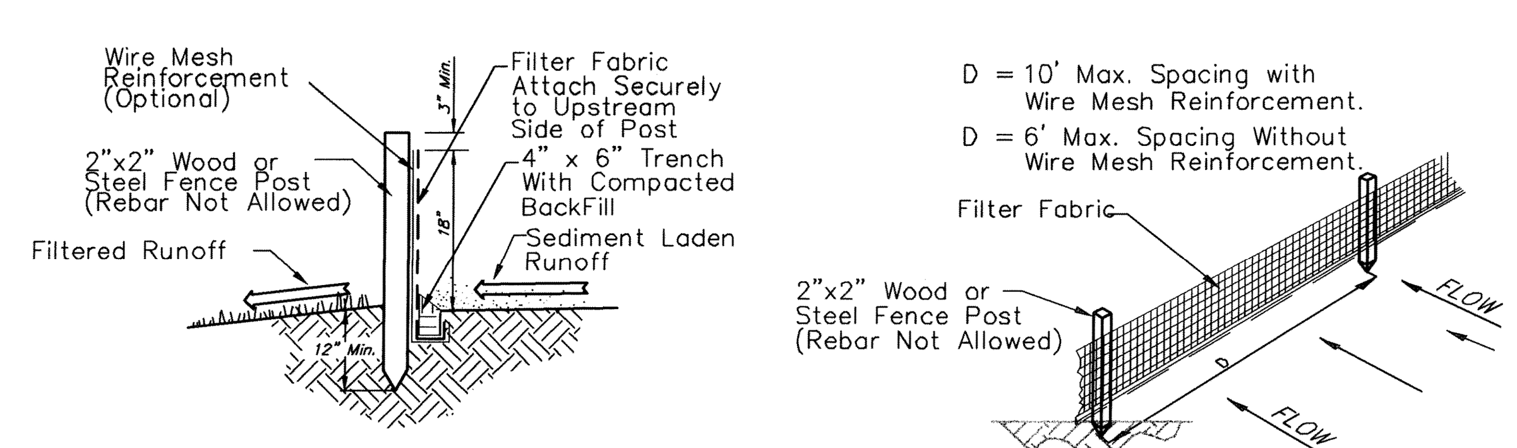


NOTES:

1. 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.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. 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.
4. 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.

3 STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



1 SILT FENCE DETAIL

NOT TO SCALE

EROSION CONTROL LEGEND

—X—X—X—X— = Silt Fence

▣ = Area Inlet Sediment Barrier

SITE PLAN EROSION CONTROL PLAN

0 15 30 60 Scale 1"= 30'-0"

Baughman
ENGINEERING | SURVEYING | PLANNING LANDSCAPE ARCHITECTURE

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315 Ellis Wichita, KS 67211
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Mark	Date (D-M-Y)	Description
1	26-APR-11	Added sws line under shed

Project Number: 1045-1518
Plan Series: HER-09T-SC-DS-01
Property Number: 578-3488

Sheet Title: SITE PLAN EROSION CONTROL PLAN

Sheet: C708