

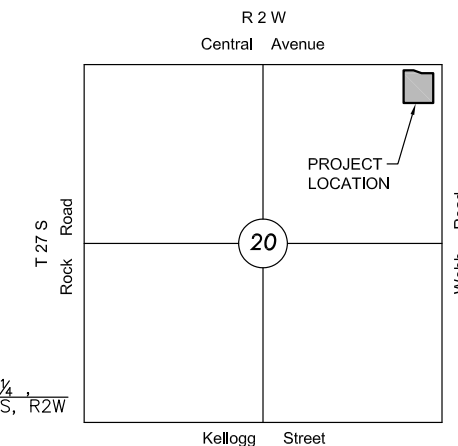
PRIVATE STORM WATER SEWER
TO SERVE

FOREST HILLS OFFICE PARK

PROJECT NO. 0195PPD

THE CITY OF WICHITA, KANSAS
GARY JANZEN, P.E. - CITY ENGINEER

OCA NO. 607861



VICINITY MAP
No Scale

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	STORM WATER DETAILS
5	SWS LINE 1
#	GRADING PLAN
7	EROSION CONTROL PLAN
8	EROSION CONTROL DETAILS
9	ERU PLAN
10	FINAL PLAT

BENCHMARKS

BM#1 "□" cut on top of curb where curb bends from East to West (15' N & 30' E) of NW bldg. cor. 421 N. Webb Road.
Elev.=1361.02 (NAVD88)

"□" cut top curb in line to the North with the East face of building at 421 N. Webb road.
Elev.=1362.49 (NAVD88)

GENERAL NOTES

- UNLESS SHOWN OR OTHERWISE STATED ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS.
 - THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
 - ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
 - TREES TO BE REMOVED ARE MARKED . ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
 - CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
 - EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
 - CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF SEVENTY-TWO (72) HOURS TO UTILITY COMPANIES TO STARTING ANY EXCAVATION AS FOLLOWS:

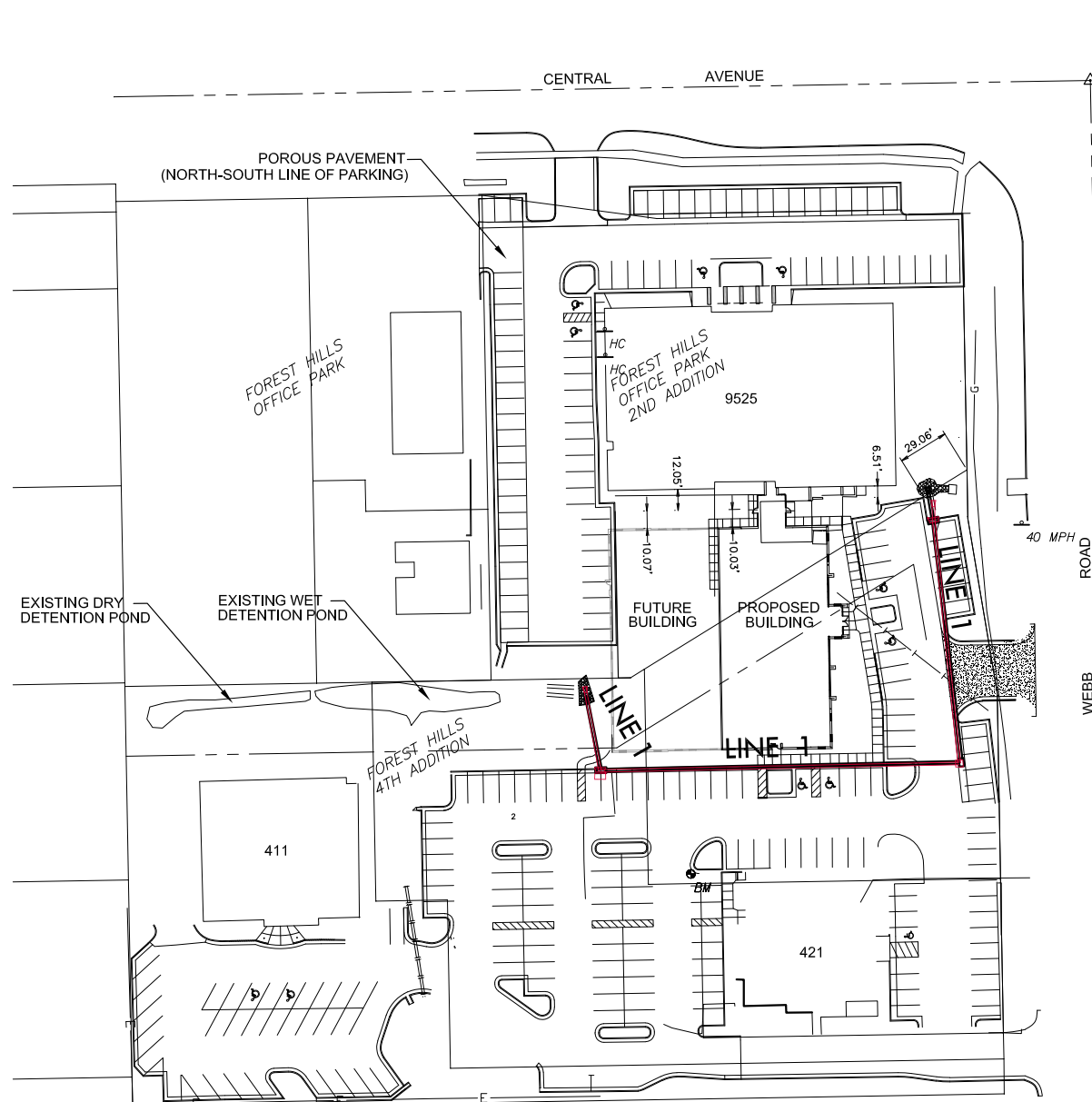
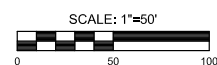
KANSAS ONE-CALL 800-344-7233
OR LOCAL WICHITA 687-2470
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:
- | | |
|-------------------------------|--------------|
| COX COMMUNICATIONS (CABLE) | 262-0661 |
| WESTAR (ELECTRIC) | 383-8600 |
| KANSAS GAS SERVICE (GAS) | 832-3101 |
| SBC (TELEPHONE) | 800-870-8390 |
| CITY OF WICHITA WATER & SEWER | 262-6000 |
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
 - CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITY AND/OR PAVING CONTRACTORS ON SITE.
 - CONTRACTOR SHALL RESEED AND MULCH ALL DISTURBED AREAS. COST SHALL BE CONSIDERED SUBSIDIARY TO SITE RESTORATION. SEE SHEET
 - CONTRACTOR TO REFER TO SWPP FILED ON SITE FOR EROSION/SEDIMENT CONTROL.
 - WORK DONE UNDER THIS PROJECT IS SUBJECT TO THE CITY OF WICHITA REQUIREMENTS FOR "CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACT." THE CONTRACTOR SHALL BE FAMILIAR AND COMPLY WITH ALL OF THE REQUIREMENTS, INCLUDING BONDING, INSPECTION, TESTING, NOTIFICATION, PROVIDING AS-BUILT DRAWINGS, PAYING FOR ALL NECESSARY CONNECTIONS AND/OR STREET REPAIR FEES AND PROVIDING PIPE MATERIAL AND OTHER CERTIFICATIONS.

NEW DEVELOPMENT

DISTURBED AREA= 1.45 AC.
EXISTING IMPERVIOUS AREA (TO BE REPLACED)= 0.33 AC
PROPOSED (NEW) IMPERVIOUS AREA= 0.73 AC
DISTURBED PERVIOUS AREA= 0.21 AC
FUTURE IMPERVIOUS AREA= 0.18 AC

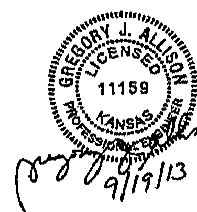
WQ_v = 0.10 AC-FT
CP_v = N/A

THIS OVERALL PROJECT SATISFIES CHAPTER 16-32 OF THE CITY CODE THROUGH TREATMENT PROVIDED BY THE INSTALLATION OF A PROPRIETARY DEVICE AND ROUTING THROUGH EXISTING POROUS PAVEMENT, AN EXISTING WET DETENTION POND, AND AN EXISTING DRY DETENTION POND.



AS-BUILT PLANS - MAY 2014

INSPECTED BY: GENE RATH, MKEC ENGINEERING, INC
CONSTRUCTED BY: JIM EWERTZ EXCAVATING
SUPERINTENDENT: JIM EWERTZ
SUPPLIER: WICHITA CONCRETE PIPE



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

Engineering: *Jim Handberg* 9/13/13
Storm Water (Public Works): *Jim Handberg* 9/13/13

NOTE TO CONTRACTORS

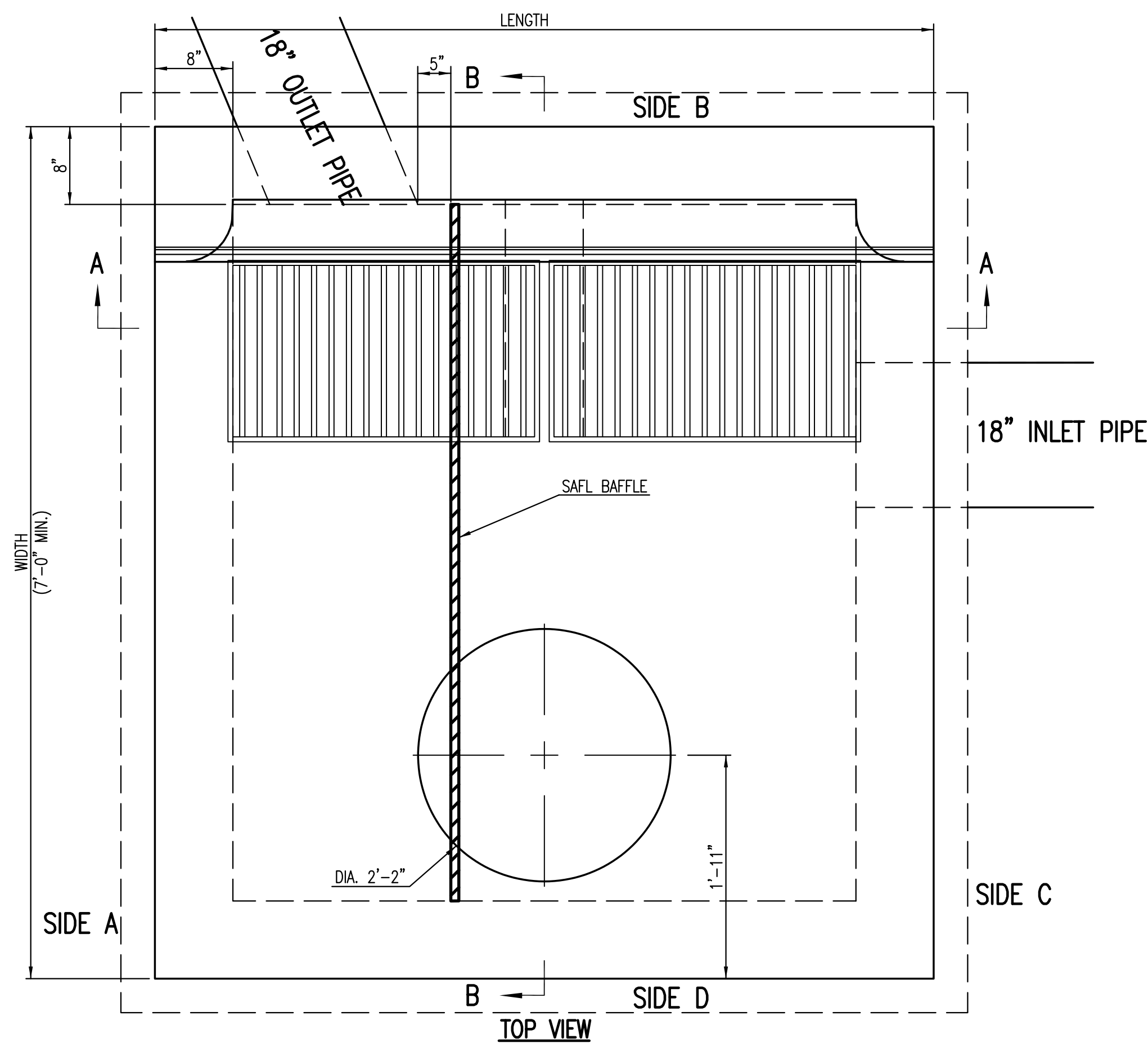
Public Property:
Inspection and testing for the storm water sewer is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita Standard Construction Engineering Practices and certified by a Professional Engineer licensed in the state of Kansas. No work shall be performed in dedicated easements or public rights-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer. All construction and materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

PRIVATE STORM WATER SEWER PLAN FOR
FOREST HILLS OFFICE PARK
PHASE 1

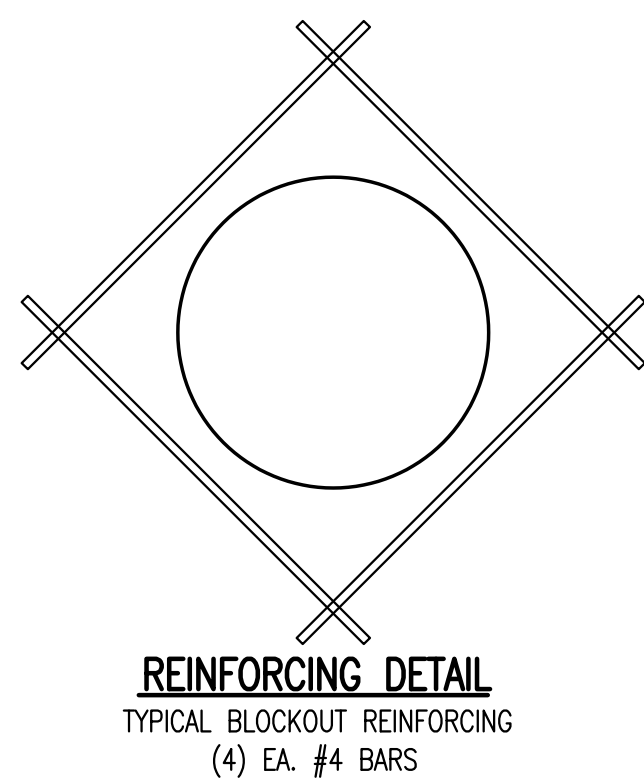
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TITLE SHEET

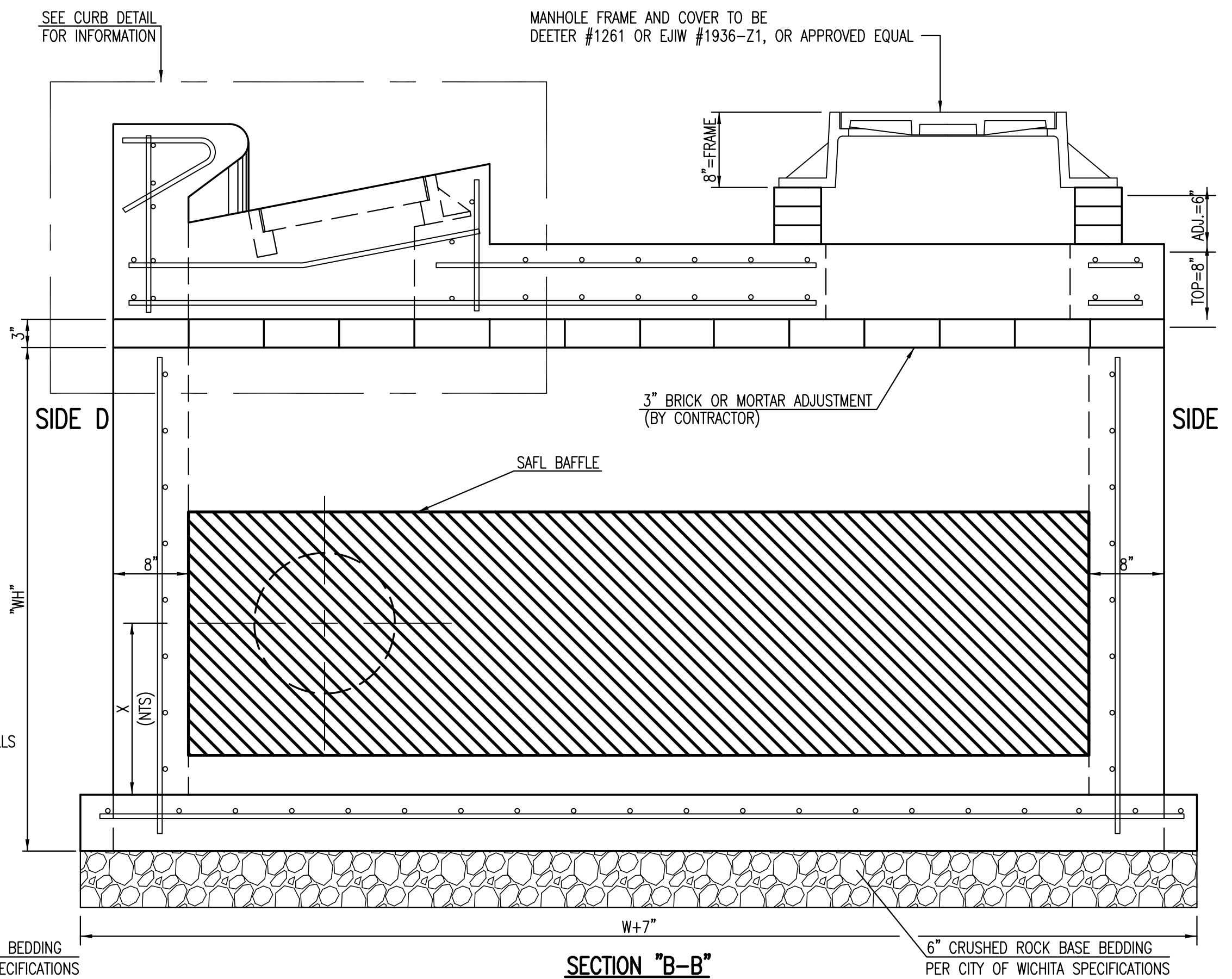
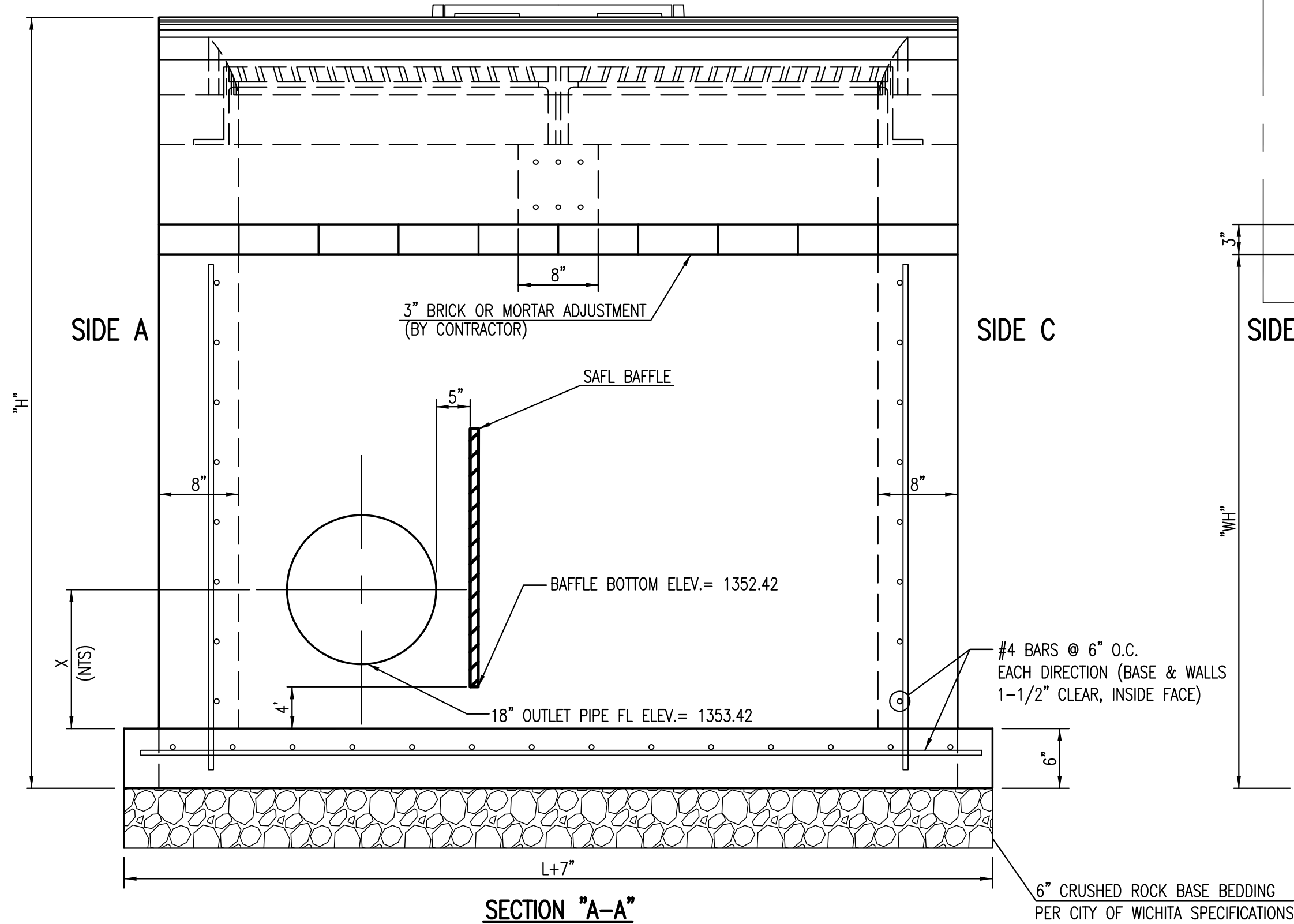
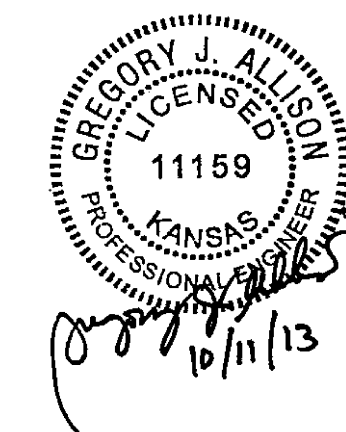
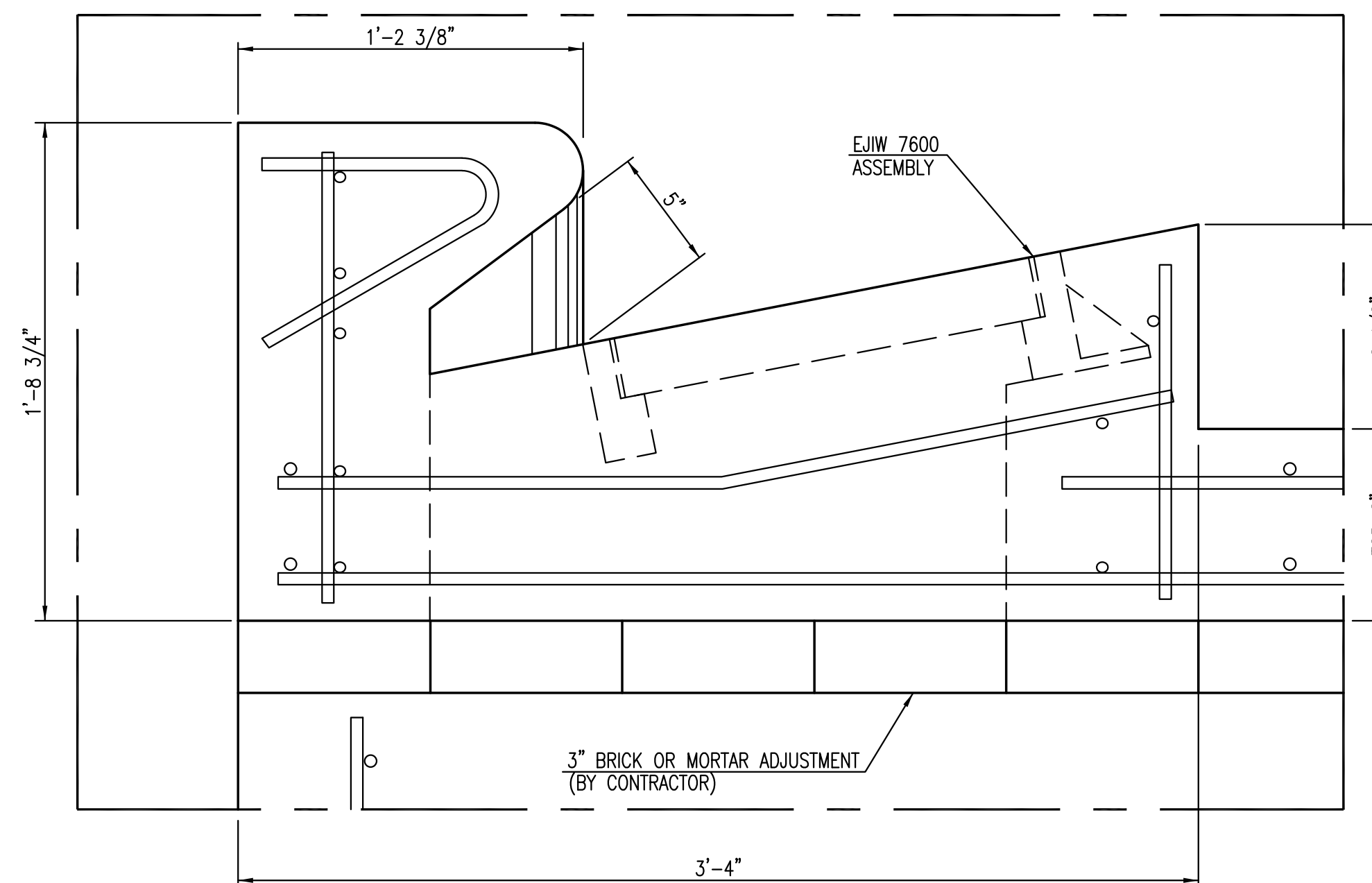
PROJECT NO.	0195PPD
DATE	SEPT 2013
SCALE	1"=50'
DESIGNED	SLF
DRAWN	BKS
CHECKED	GJA
P1 POST PERMIT FOR CONSTR.	02/03/14
NO.	REVISION DATE
SHEET NO.	



****ALL REINFORCING TO BE #4 BARS @ 6" O.C.**



NOTES:
-INSTALLED INLET MUST HAVE A 5' SUMP BELOW OUTLET PIPE FLOW LINE ELEVATION.
-REFER TO PLAN AND PROFILE FOR INLET STRUCTURE AND PIPE ELEVATIONS.



GENERAL NOTES

- USE THE CONCRETE MIX SPECIFIED FOR THE CITY OF WICHITA CONCRETE PAVEMENT THROUGHOUT. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EDGING TOOL. REINFORCING BARS SHALL BE BENT AROUND PIPE.
- INLET/MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK 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.
- ALL BARS ARE #4 WITH 6" SPACING AND SHALL HAVE A MINIMUM CLEARANCE OF 1 1/2" INCHES UNLESS OTHERWISE NOTED ON THE PLANS.
- NO DEDUCTIONS WILL BE MADE IN PAY LENGTH OF CURB, GUTTER, OR CURB AND GUTTER THROUGH THE INLET AREA.
- USE DEETER FOUNDRY, INC. CASTING NO. 2442/43 OR EJIW 7600Z LEFT SIDE, 7600 RIGHT SIDE IN INLET FRAME AND GRATE WITH STYLE H GRATE. INLET FRAME TO BE PROOF LOAD TESTED TO 40,000 LBS. ON UNSUPPORTED SIDE.
- RING AND COVER SHALL BE DEETER #1261 OR EJIW #1936-Z1, OR APPROVED EQUAL, SEE SW-303.
- REINFORCING BARS SHALL BE CUT OR BENT AROUND PIPES. NO DEDUCTION IN CONCRETE QUANTITIES SHALL BE MADE FOR PIPE OPENINGS.
- THE VANES OF THE GRATE SHALL BE ORIENTED WITH RESPECT TO THE FLOW ARROWS SHOWN ON THE PLANS.
- AROUND INLET/MANHOLE OPENING IN TOP SLAB USE #5 BAR @ 45 ANGLE TO OTHER BARS. LENGTH = MH OPENING + 2'-0"
- CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET/MANHOLE WALL SHALL BE GROUTED FLUSH TO THE INLET/MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE INLET/MANHOLE IS IN PLACE. LIFTING HOLES THRU THE INLET/MANHOLE WALL WILL NOT BE ACCEPTED.

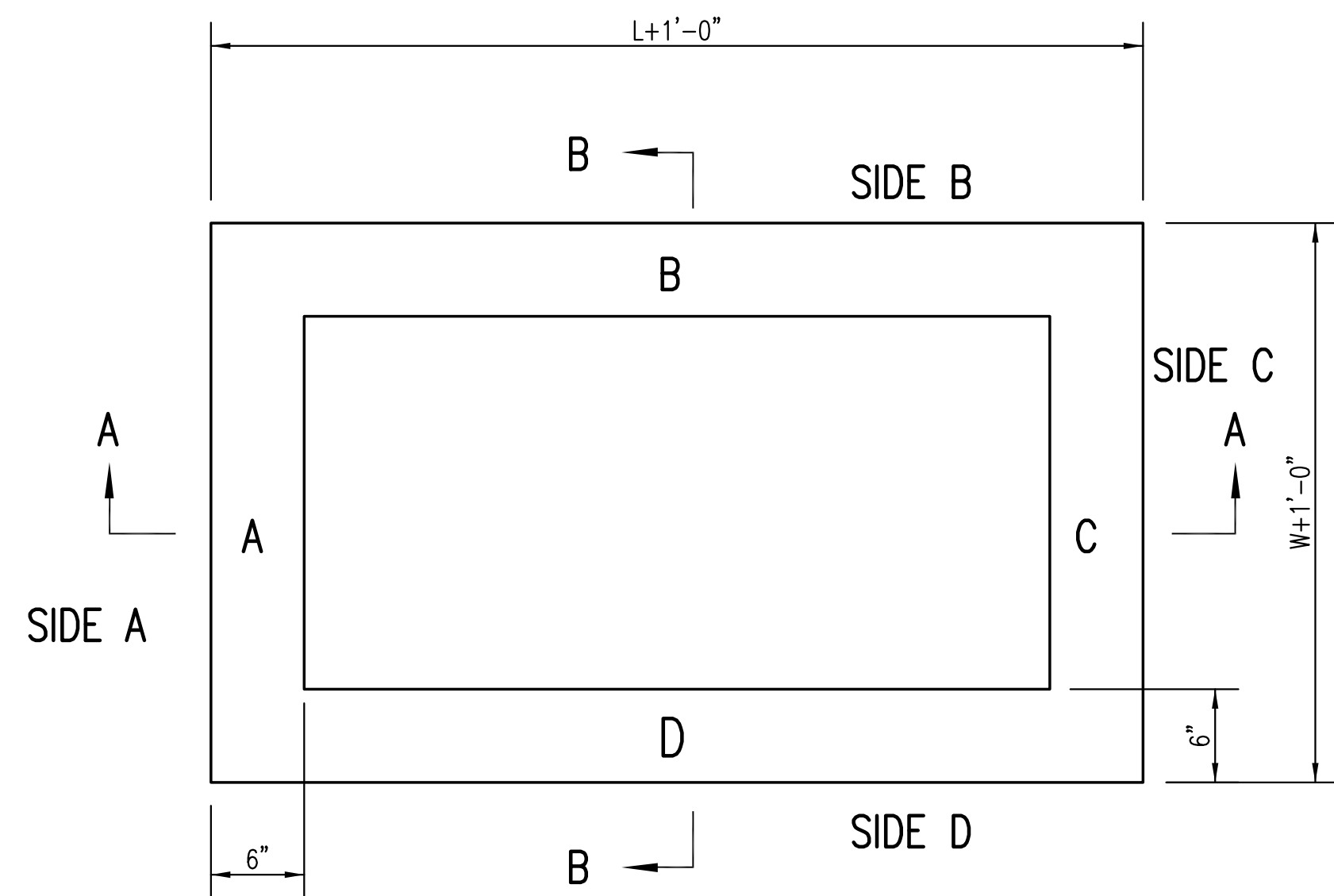
**STORM WATER SEWER PLAN FOR
FOREST HILLS OFFICE PARK
PHASE 1**

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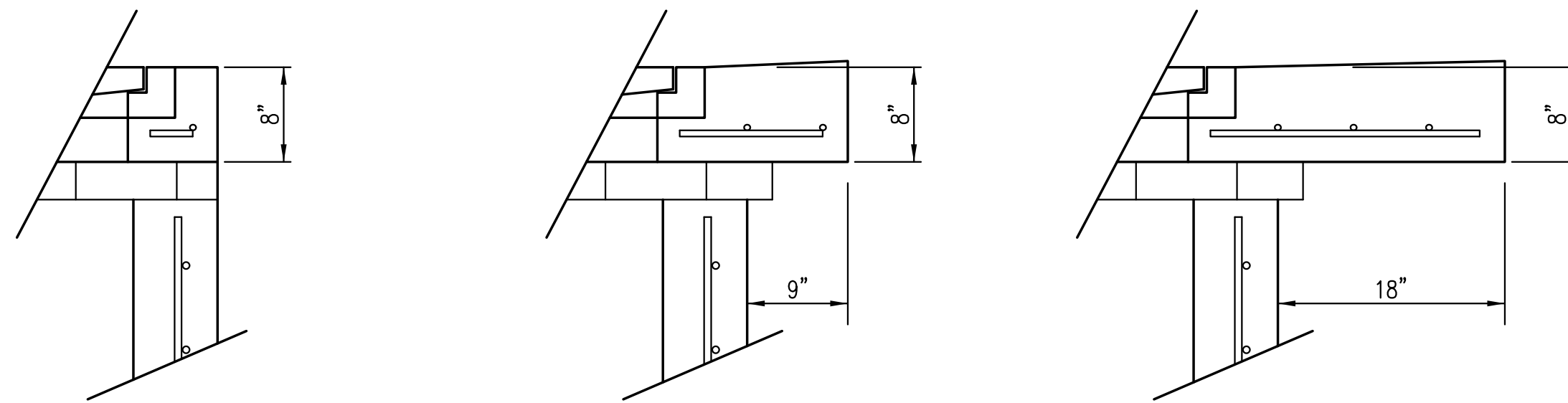
**SPECIAL TYPE
2 INLET DETAIL**

PROJECT NO.	0195PPD	
DATE	SEPT 2013	
SCALE	NTS	
DESIGNED	DRAWN	CHECKED
SLF	SLF	GJA
#	---	##/###/###
NO.	REVISION	DATE

SHEET NO.



TOP VIEW



FLUSH STYLE TOP
NO APRON

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

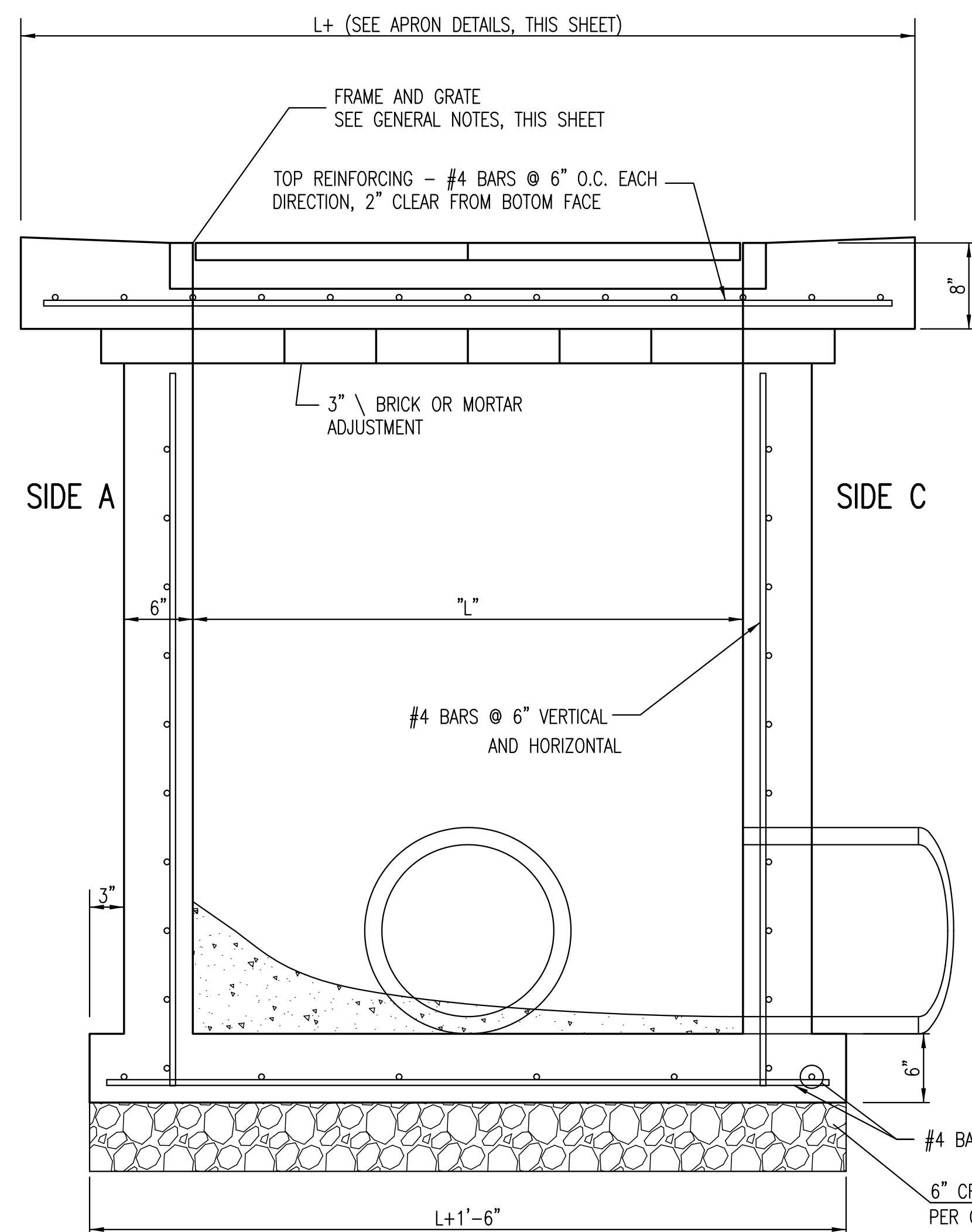
18" APRON

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

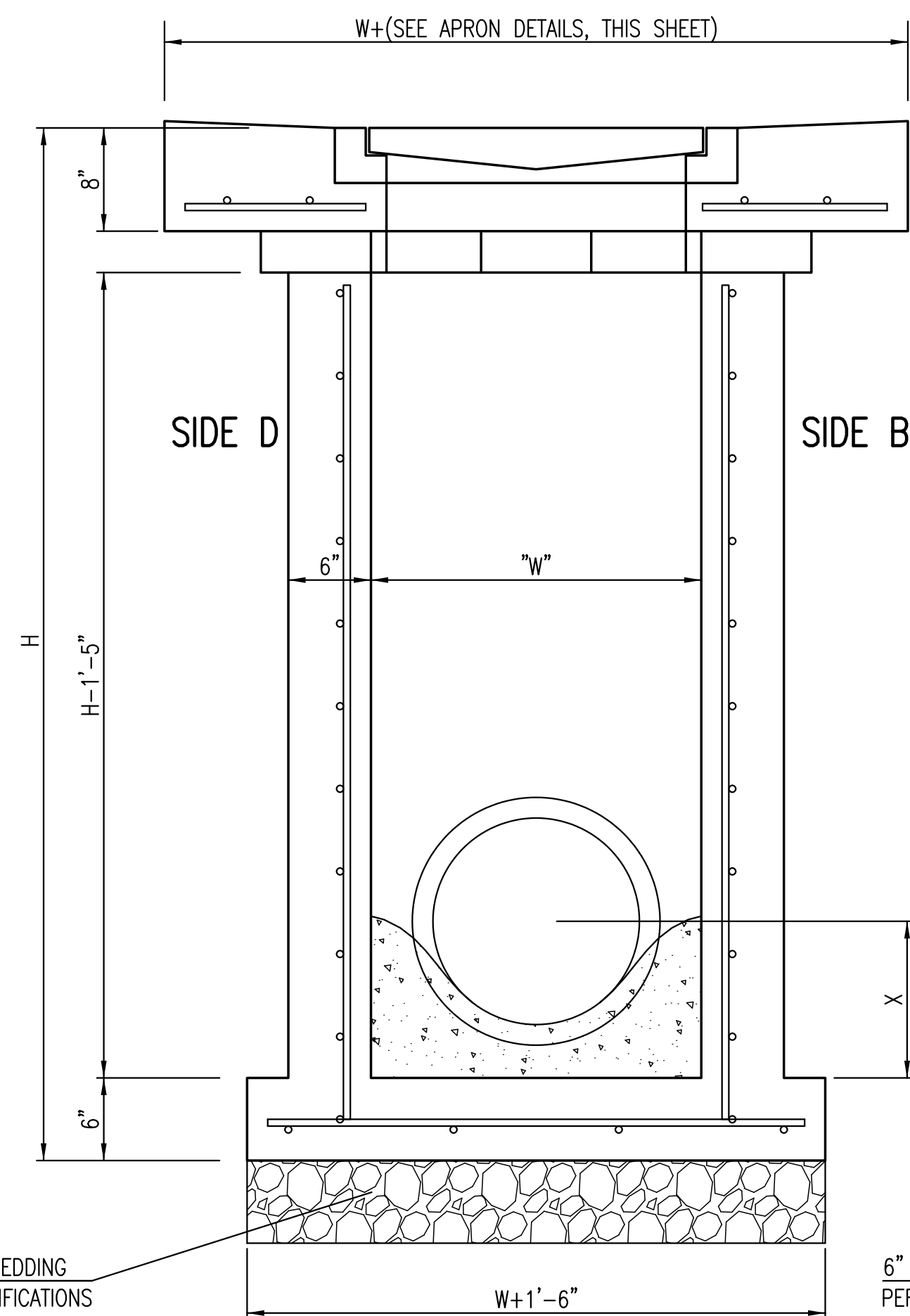
The structure(s) on this detail sheet are designed for HS-20 loading at these specific dimensions only. If larger dimensions are required, the ENGINEER shall provide a project specific structure design for approval by the City Engineer's office.

GENERAL NOTES

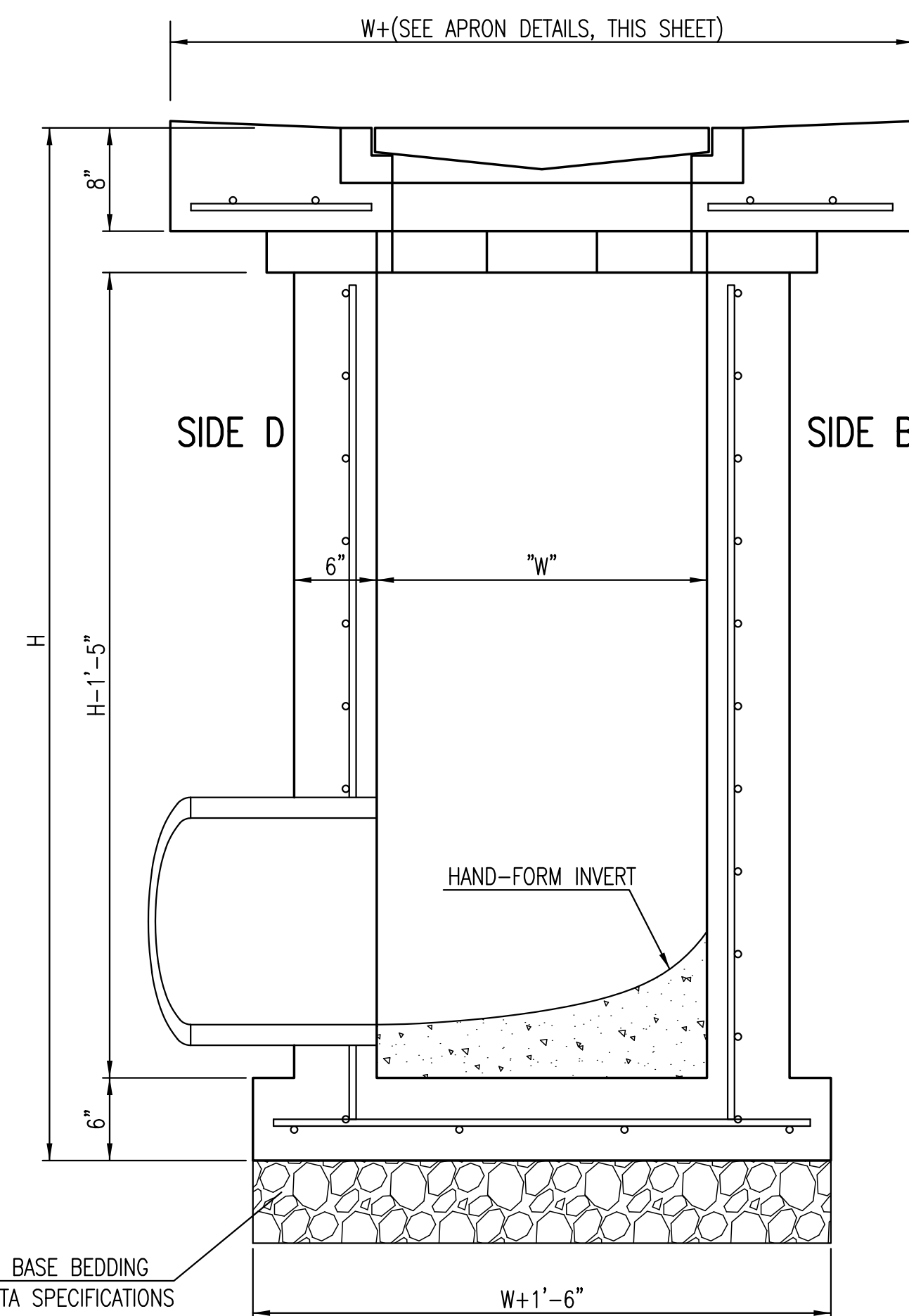
- GRATE FRAME TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
- INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
- INLET FRAME AND GRATE TO BE DEETER #2433, EJIW #5391-Z1 OR APPROVED EQUAL FOR 2'x2' SINGLE DROP INLET AND DEETER #2434, EJIW #5391 Z3 OR APPROVED EQUAL FOR 2'x4' DOUBLE DROP INLET.
- CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



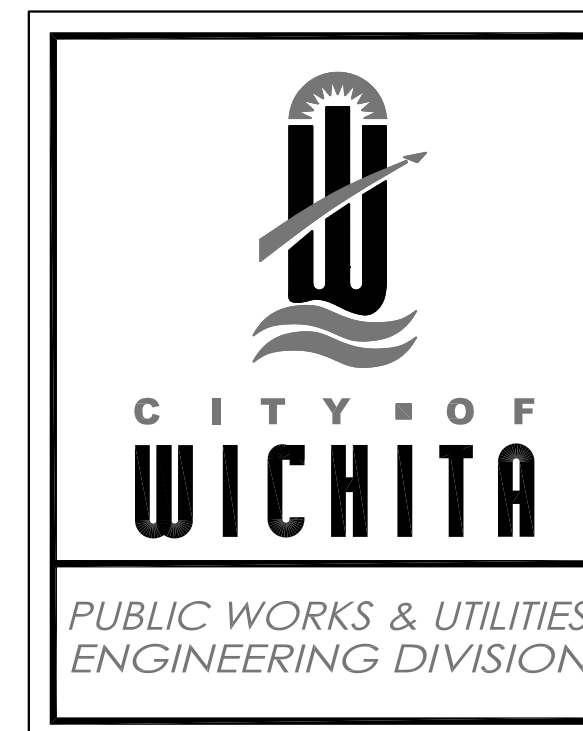
SECTION "A-A"



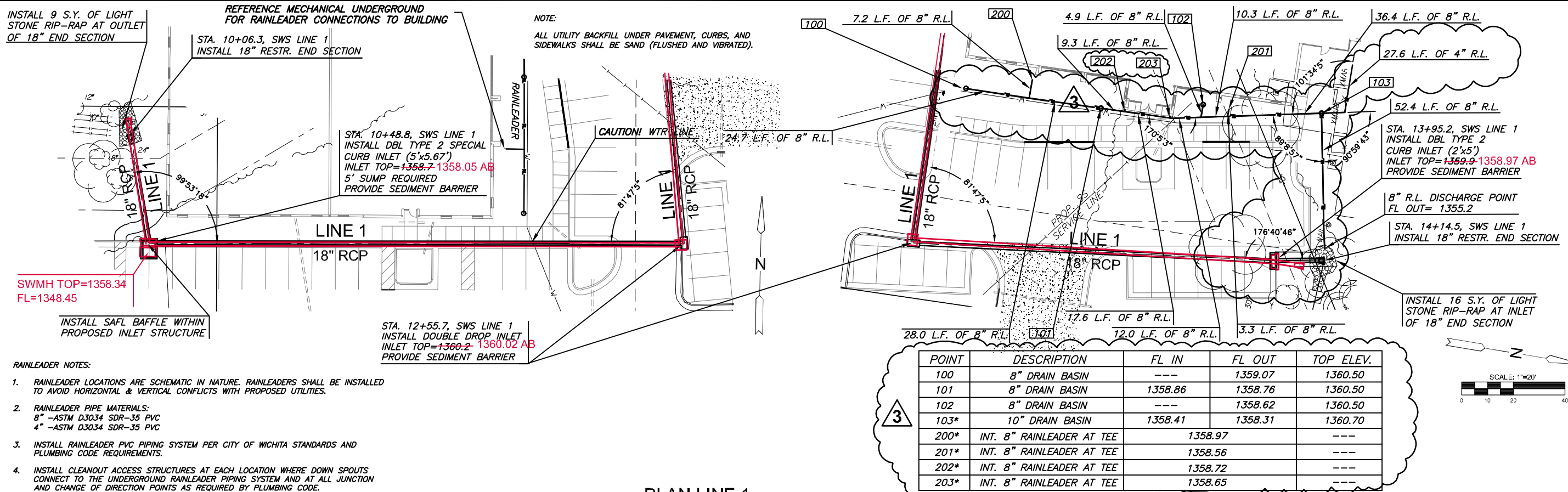
SECTION "B-B"
END OUTLET



SECTION "B-B"
SIDE OUTLET



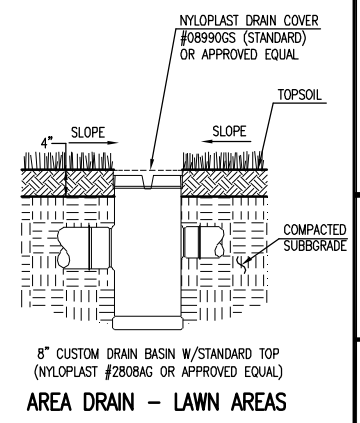
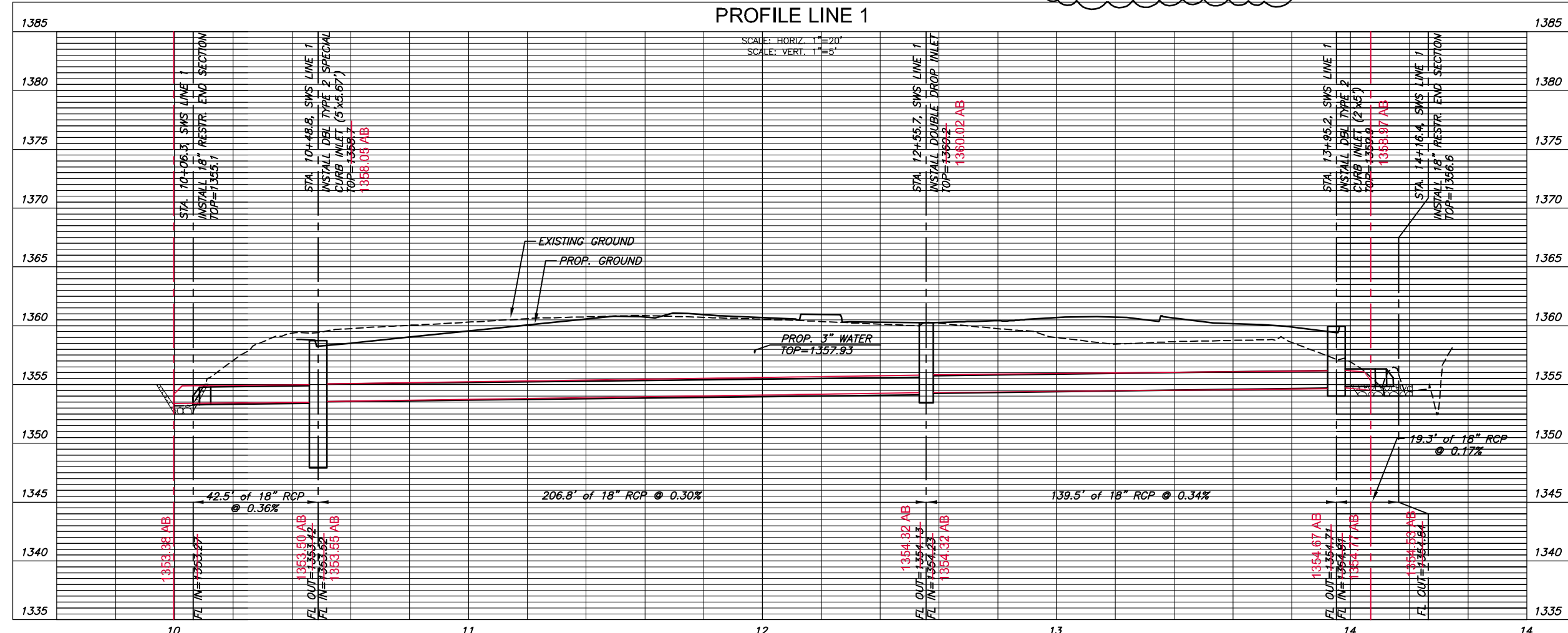
REVISED 05/10/2011 - GJ		
SINGLE/DOUBLE DROP INLET		
CITY ENGINEER GARY L. JANZEN, P.E.		
PROJECT NUMBER 0195PPD	OCA NUMBER 607861	DATE 09/2013
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN DRAWN SHEET 4 OF 10



POINT	DESCRIPTION	FL IN	FL OUT	TOP ELEV.
100	8" DRAIN BASIN	---	1359.07	1360.50
101	8" DRAIN BASIN	1358.86	1358.76	1360.50
102	8" DRAIN BASIN	---	1358.62	1360.50
103*	10" DRAIN BASIN	1358.41	1358.31	1360.70
200*	INT. 8" RAINLEADER AT TEE		1358.97	---
201*	INT. 8" RAINLEADER AT TEE		1358.56	---
202*	INT. 8" RAINLEADER AT TEE		1358.72	---
203*	INT. 8" RAINLEADER AT TEE		1358.65	---

*COORDINATE WITH MECHANICAL DRAWINGS

PLAN LINE 1
PROFILE LINE 1



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SWS LINE 1

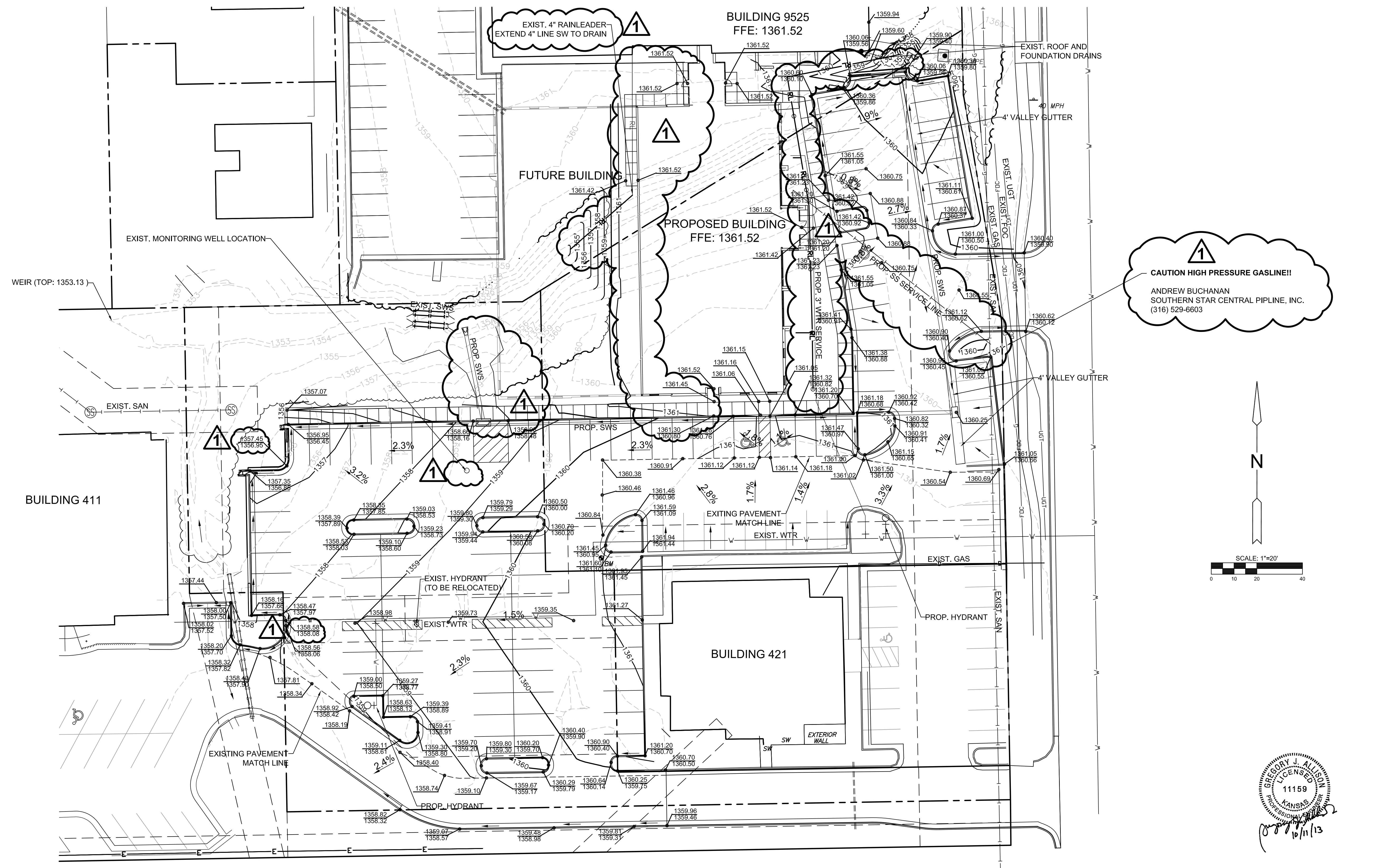
PROJECT NO.	0195PPD
DATE	SEPT 2013
SCALE	1"=20'
DESIGNED	SLF
DRAWN	BKS
CHECKED	GJA

NO.	REVISION	DATE
1	POST PERMIT FOR CONSTR.	02/03/14
2	RL & INLET CHANGES	12/03/13
3	RL & PIPE MATERIAL	11/20/13
4	RL & PIPE MATERIAL	10/11/13

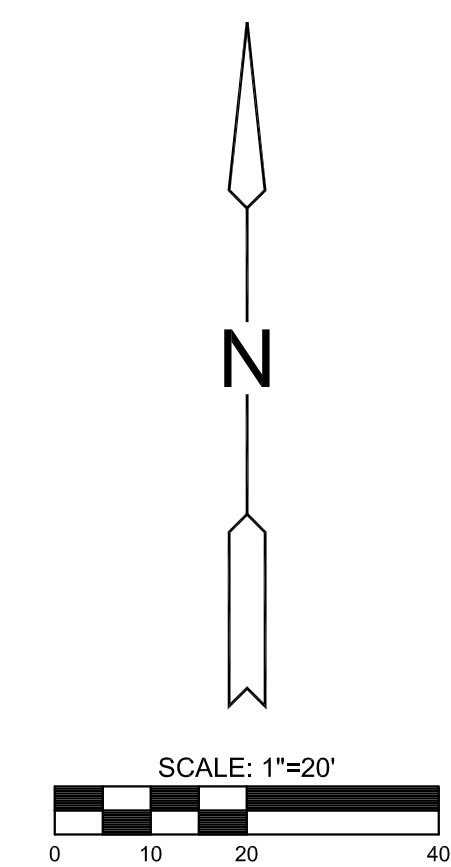
SHEET NO.
5 OF 10

J:\CIVIL\MKEC_PARKINGLOT\DWGS\SWS LINE 1.DWG

PRIVATE STORM WATER SEWER PLAN FOR
FOREST HILLS OFFICE PARK
PHASE 1



1
CAUTION HIGH PRESSURE GASLINE!!
ANDREW BUCHANAN
SOUTHERN STAR CENTRAL PIPELINE, INC.
(316) 529-6603

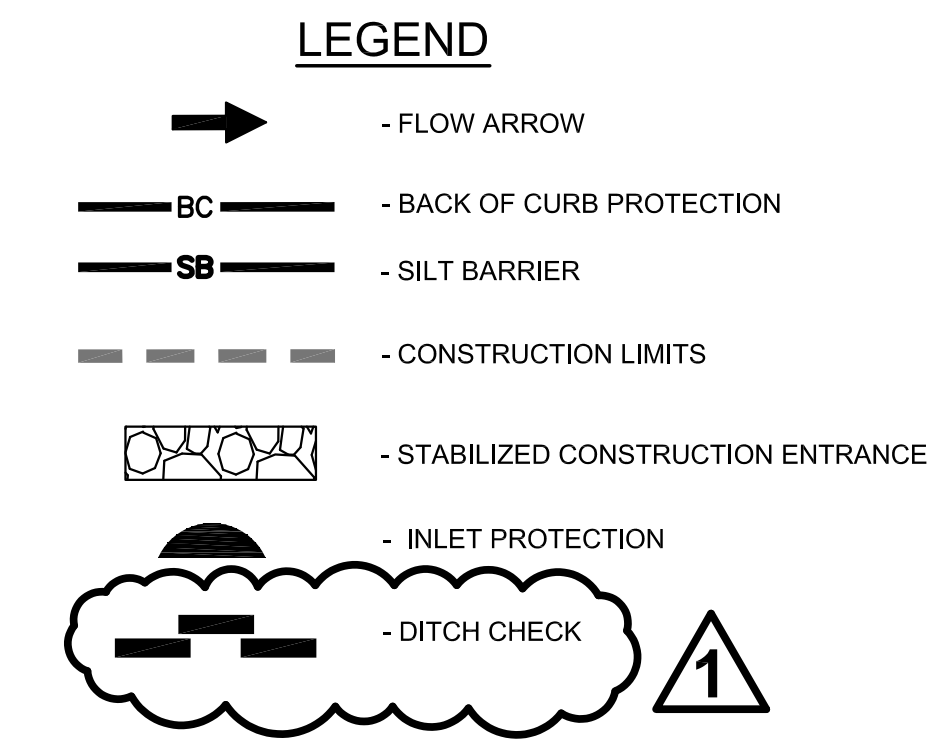
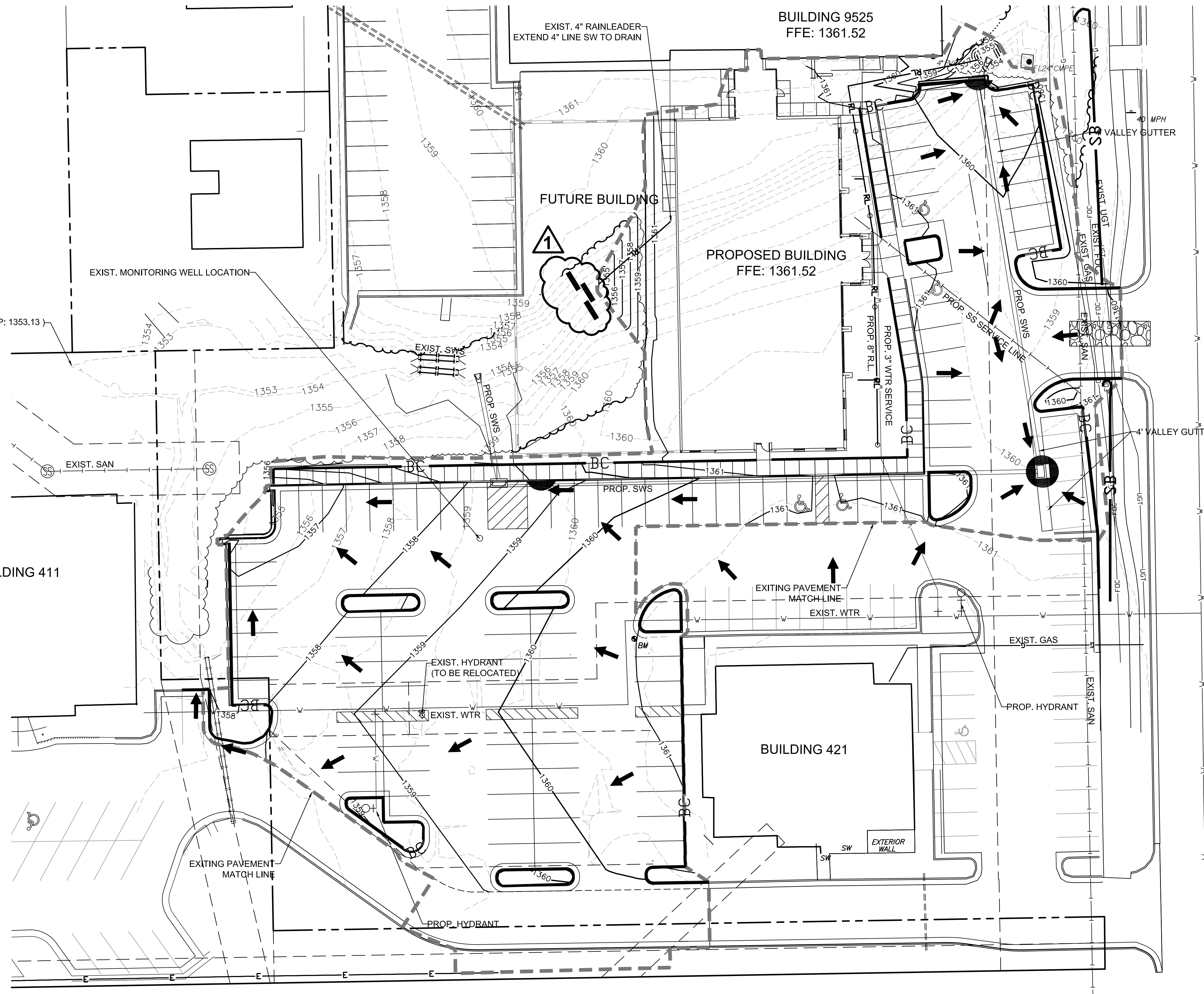


GREGORY J. ALLSO
LICENSED
11159
KANSAS
PROFESSIONAL ENGINEER
10/11/13

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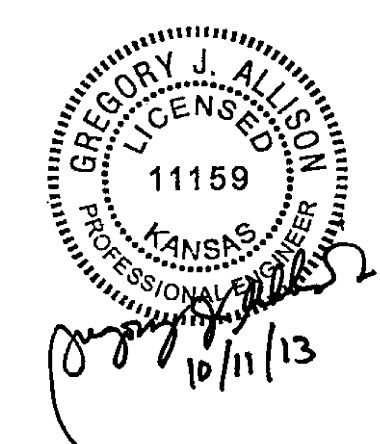
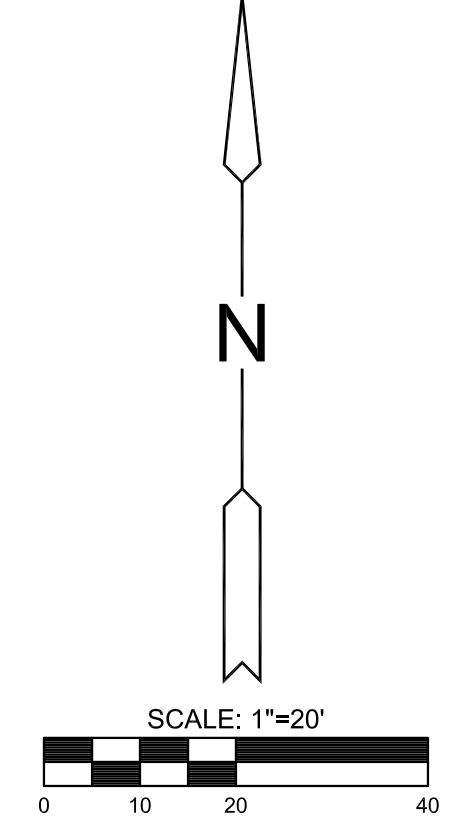
GRADING PLAN

PROJECT NO.	0195PPD	
DATE	SEPT. 2013	
SCALE	1" = 20'	
DESIGNED	MKEC	
DRAWN	SLF	
CHECKED	GJA	
NO.	REVISION	DATE
1	SW GRADING, RL & SS	10/11/13
B	CONDITIONAL PERMIT	09/06/13



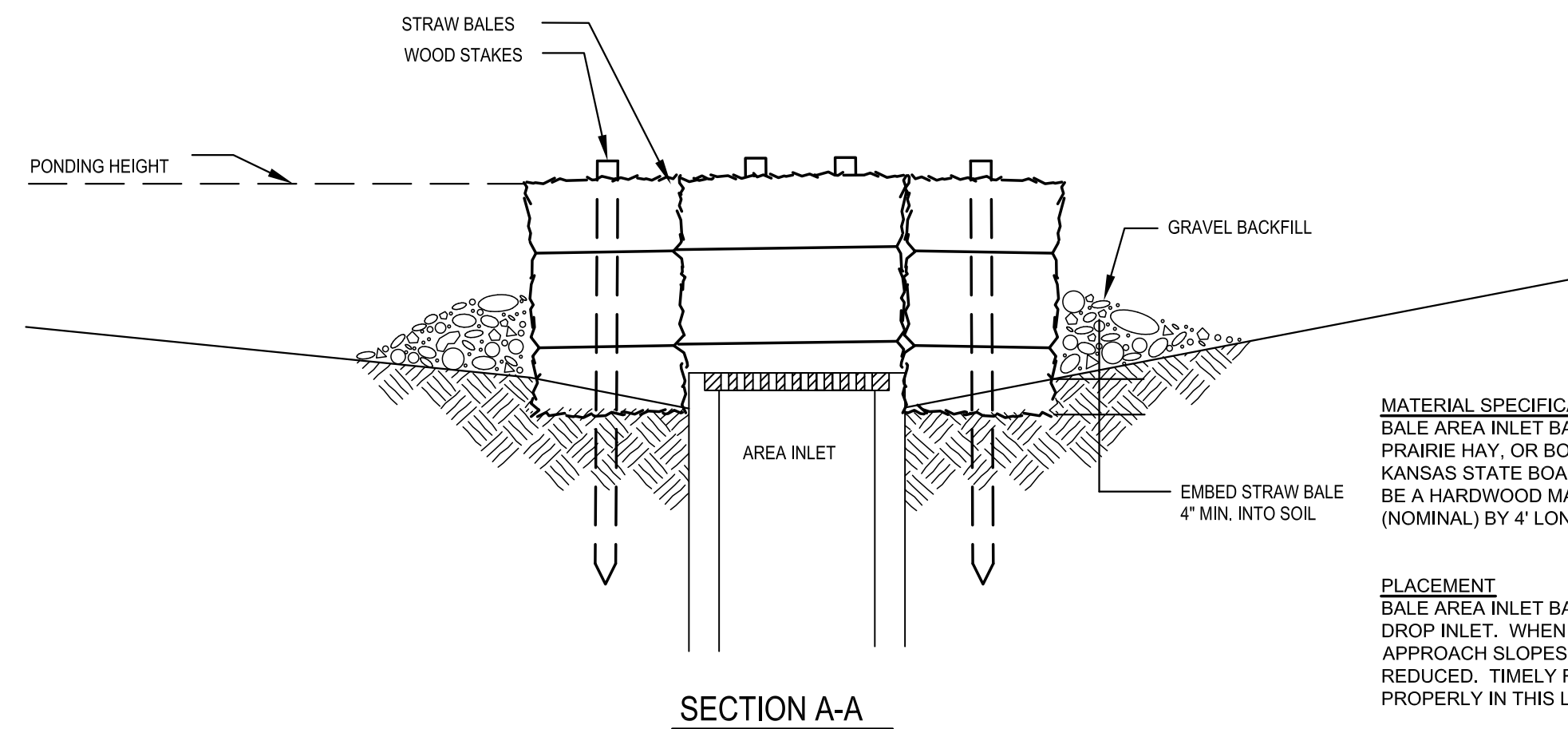
- CONSTRUCTION SEQUENCING**
1. CLEARING/GRUBBING & DEMOLITION - STABILIZED ENTRANCE IMPLEMENTED/SILT BARRIER INSTALLED.
 2. SANITARY SEWER CONSTRUCTION
 3. GRADING
 4. WATERLINE CONSTRUCTION
 5. STORM SEWER CONSTRUCTION/INLET PROTECTION IMPLEMENTED
 6. PAVING CONSTRUCTION-BACK OF CURB PROTECTION IMPLEMENTED
 7. BUILDING DEVELOPMENT UPON COMPLETION OF GRADING AND CONSTRUCTION OF UTILITIES
 8. FINAL STABILIZATION/BACK OF CURB PROTECTION REMOVED
 9. SILT BARRIER REMOVED
 10. STABILIZED ENTRANCE REMOVED

- EROSION CONTROL**
1. IN ORDER TO PREVENT SILT OR SEDIMENT FROM ENTERING DITCHES OR GUTTERS ON ADJACENT STREETS, APPROPRIATE BMP'S SHALL BE IMPLEMENTED WITHIN THE PROJECT.
 2. ANY MUD TRACKED ONTO ADJACENT PAVED AREAS OR STREETS SHALL BE REMOVED AT THE END OF EACH WORK DAY.
 3. PER THE REQUIREMENTS OF THE NOI/SWPPP, BMP INSPECTION REPORTS SHALL BE COMPLETED BY THE CONTRACTOR WEEKLY AND WITHIN 24 HOURS AFTER A 1/2" RAIN. REPORTS SHALL BE KEPT WITH THE SWPPP ON SITE.
 4. CONTRACTOR SHALL PROVIDE A SIGN NEAR THE ENTRANCE WITH THE FOLLOWING INFORMATION:
 - A. CONTACT NAME AND INFORMATION
 - B. A COPY OF THE NOI
 - C. LOCATION OF SWPPP

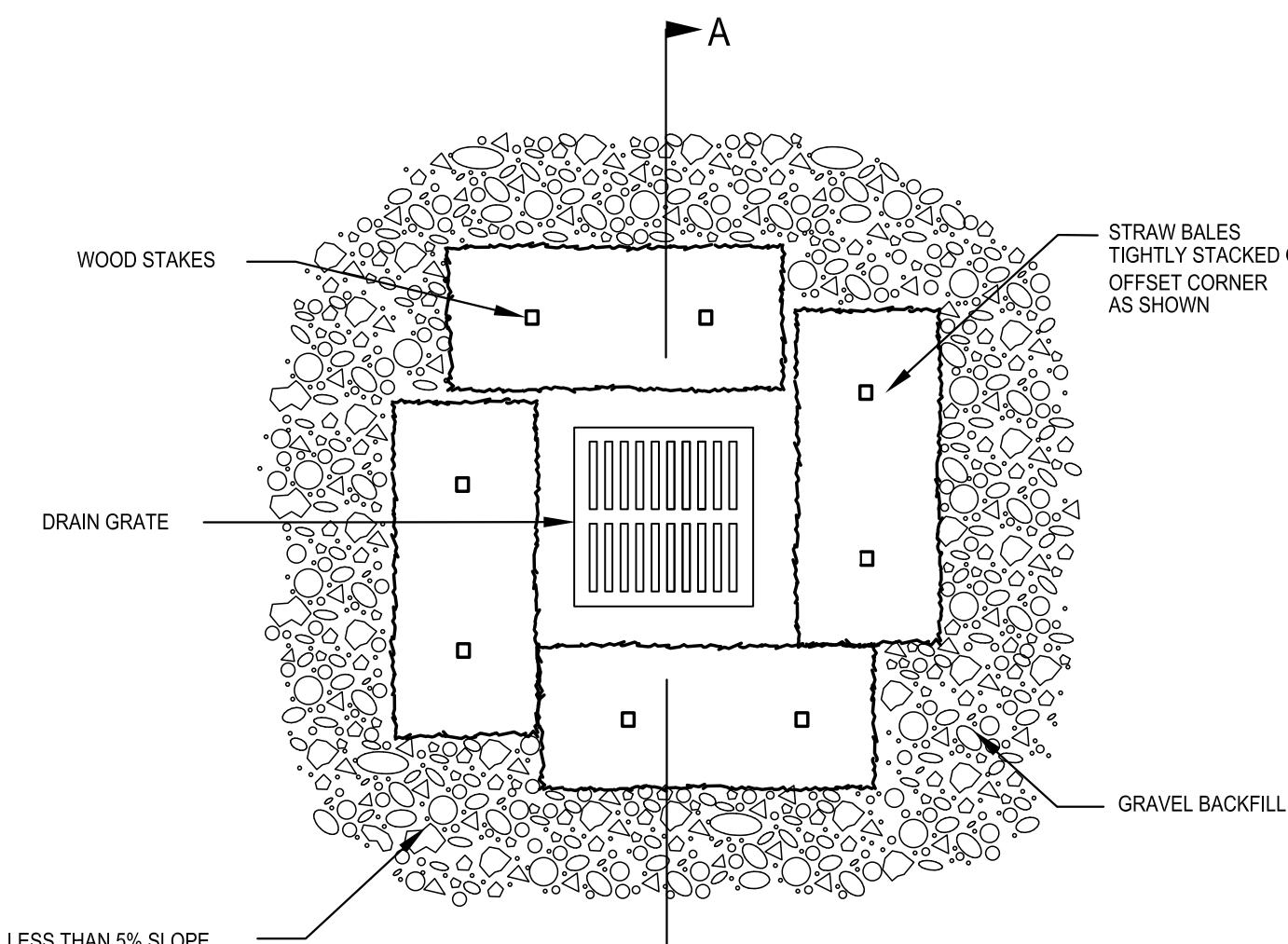


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EROSION CONTROL PLAN		
PROJECT NO.	0195PPD	
DATE	SEPT. 2013	
SCALE	1" = 20'	
DESIGNED	DRAWN	CHECKED
MKEC	SLF	KLA
NO.	REVISION	DATE
1	DITCH CHECK	10/11/13
B	CONDITIONAL PERMIT	09/06/13
SHEET NO.		
7 OF 10		



SECTION A-A



1 AREA INLET PROTECTION

SCALE: N.T.S.

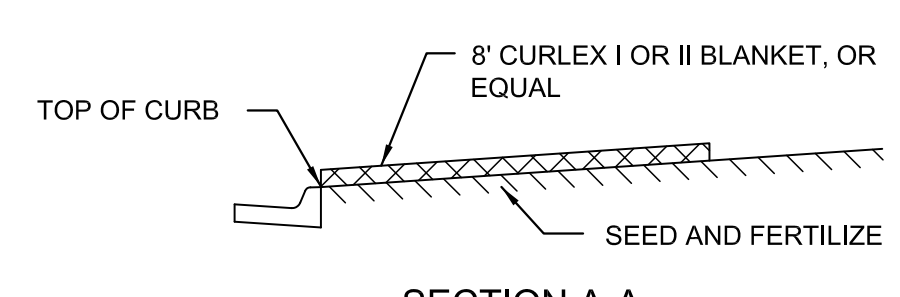
MATERIAL SPECIFICATION
BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BONEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.

PLACEMENT
BALE AREA INLET BARRIERS SHOULD BE PLACED DIRECTLY AROUND THE PERIMETER OF A DROP INLET. WHEN A BALE AREA INLET BARRIER IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD
EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 4" DEEP BY A BALE'S WIDTH WIDE. PLACE THE BALES IN THE TRENCH MAKING SURE THAT THEY ARE BUTTED TIGHTLY. SOME BALES MAY NEED TO BE SHORTENED TO FIT INTO THE TRENCH AROUND THE AREA INLET. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE, APPROXIMATELY 6" TO 8" FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE RECEIVING SIDE OF THE BARRIER AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP. NOTE: WHEN A BALE AREA INLET BARRIER IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING HAZARDOUS CONDITIONS.

LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID
BALES SHOULD BE PLACED DIRECTLY AGAINST THE PERIMETER OF THE AREA INLET. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR. BALE AREA INLET BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE
BALE AREA INLET BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED.
DOES WATER FLOW UNDER THE AREA INLET BARRIER?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?

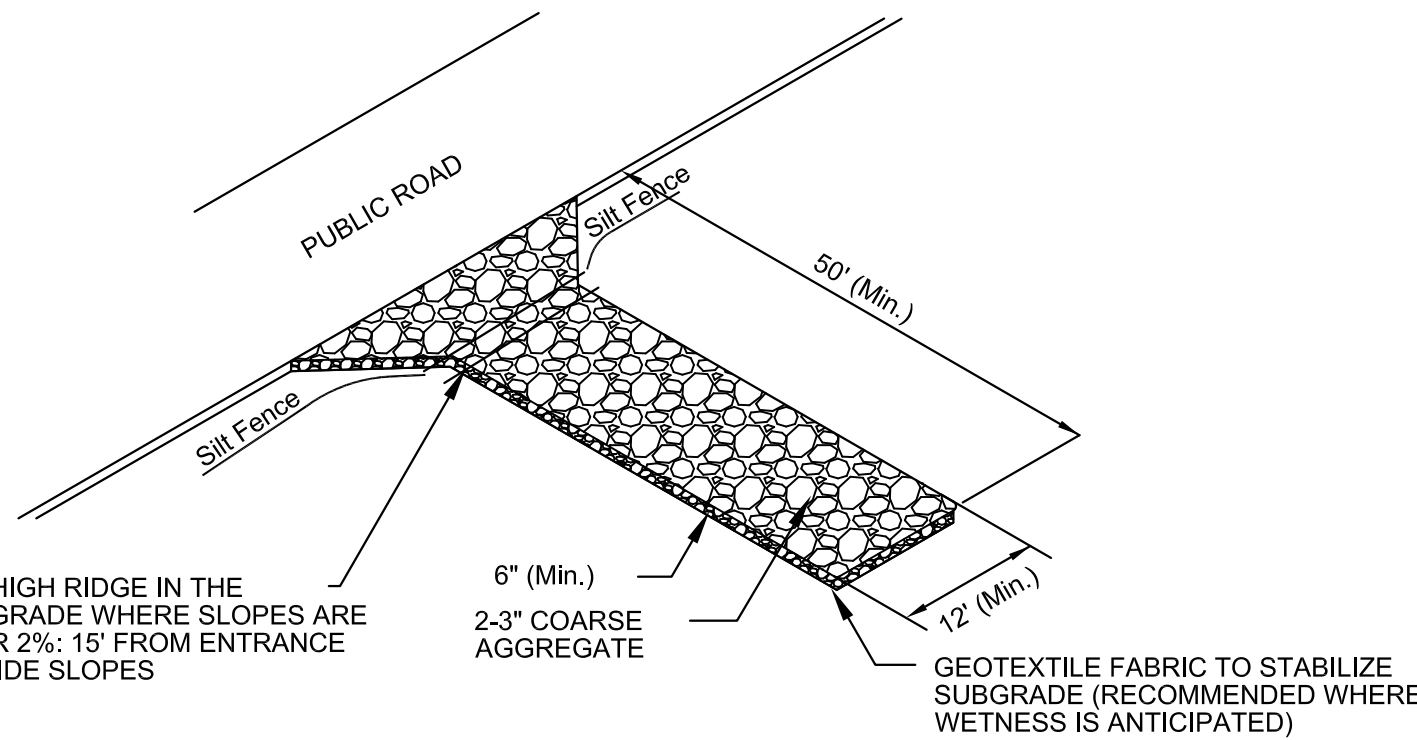
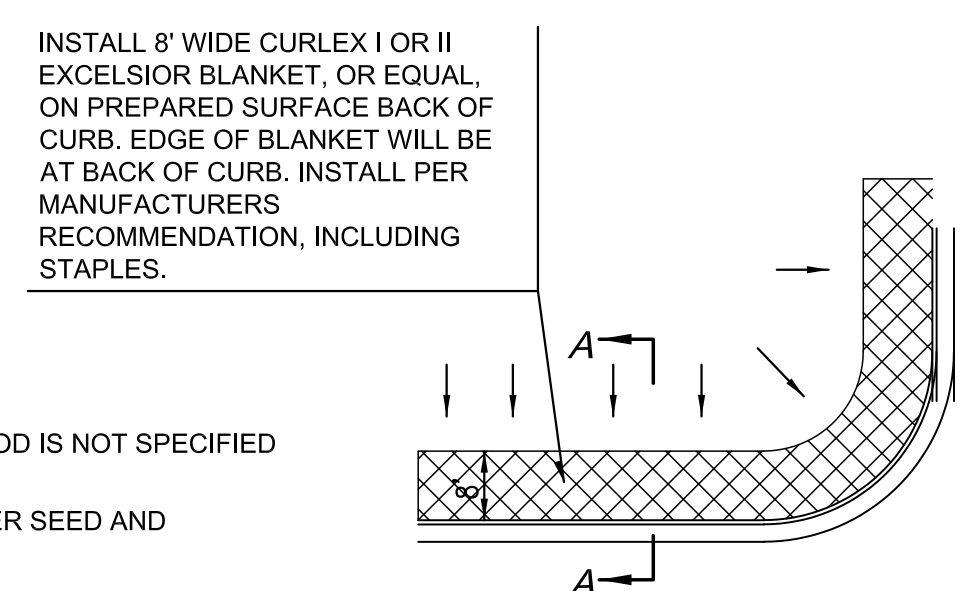


SECTION A-A

- GENERAL NOTES**
- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
 - EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER.
 - 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.

3 BACK OF CURB PROTECTION DETAIL

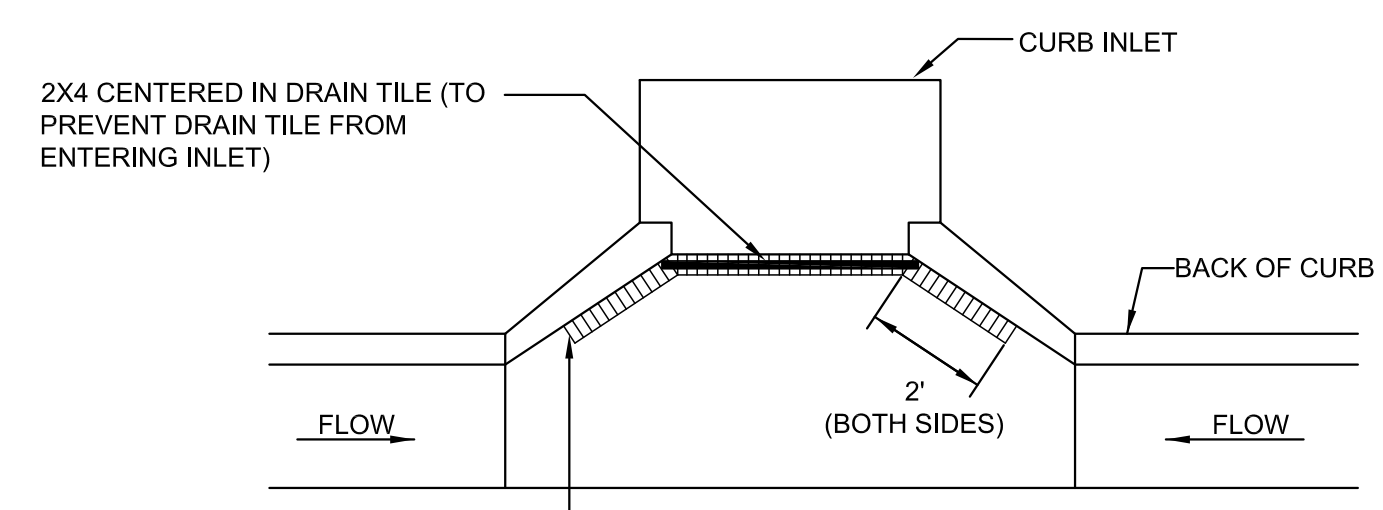
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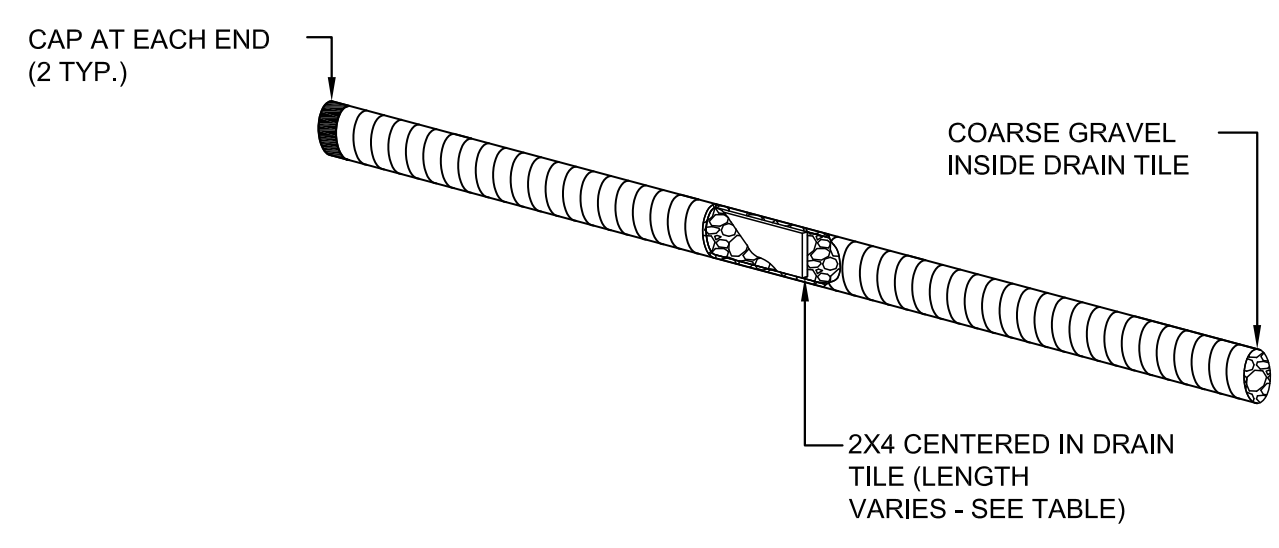
- NOTES:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED.
 - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE SUBGRADE AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE.
 - IF SLOPE TOWARDS THE ROAD EXCEEDS 2%, CONSTRUCT A 6-8" HIGH RIDGE WITH 3:1 SIDE SLOPES ACROSS THE APPROACH APPROXIMATELY 15' FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM PUBLIC ROAD.
 - AGGREGATE SIZE SHALL BE 2-3" WASH STONE
 - PAD DESIGN THICKNESS 6" MIN. WIDTH 12' MIN. OR FULL WIDTH OF ROADWAY, WHICHEVER IS GREATER. LENGTH 50' MIN.
 - SUPPLY WATER TO WASH WHEELS IF NECESSARY
 - WHEN PLACED ON A RURAL CROSS SECTION, A DRAINAGE PIPE MUST BE ADDED UNDER DRIVE. PIPE TO BE SIZED PER STORM CRITERIA.

4 TEMPORARY GRAVEL CONSTRUCTION ENTRY

SCALE: N.T.S.

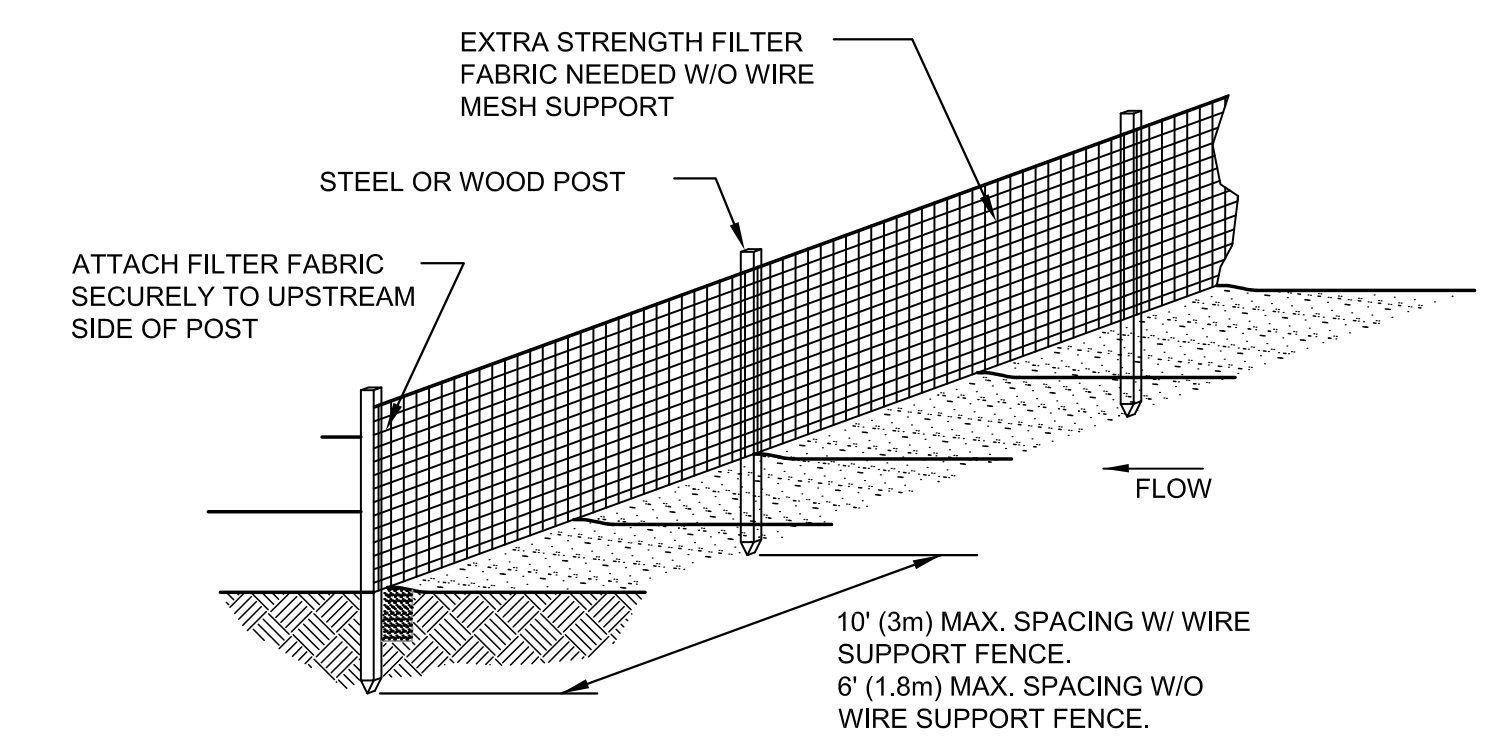


NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.



2 CURB INLET PROTECTION

SCALE: N.T.S.

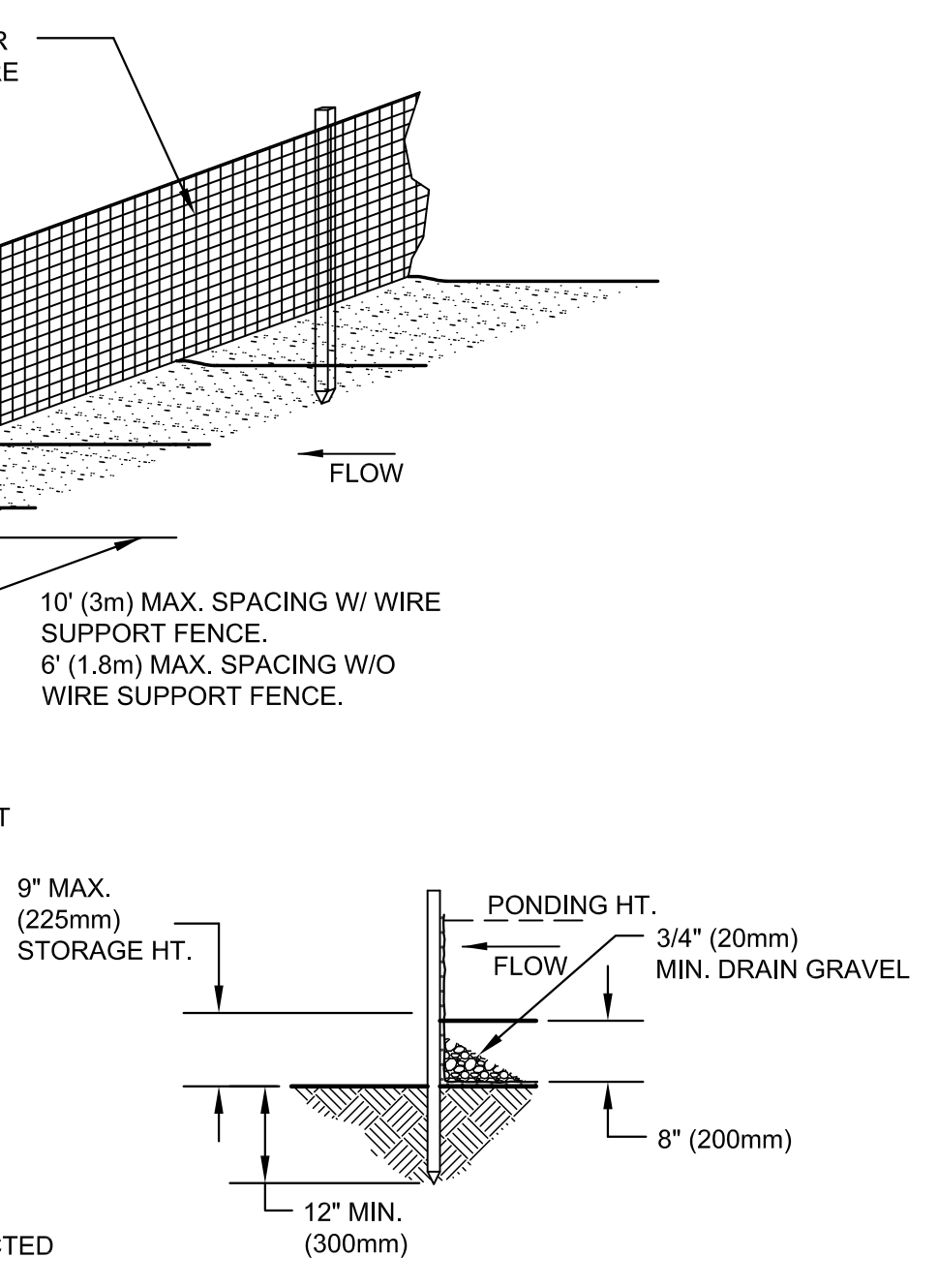


TRENCH DETAIL

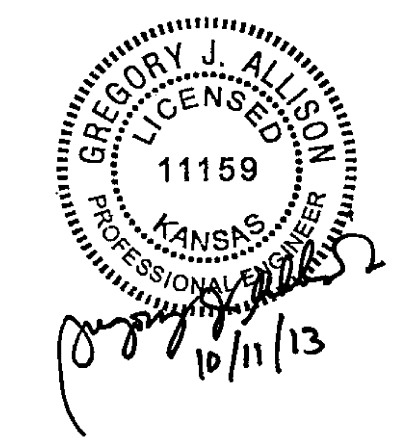
- NOTES:**
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

5 SILT FENCE

SCALE: N.T.S.



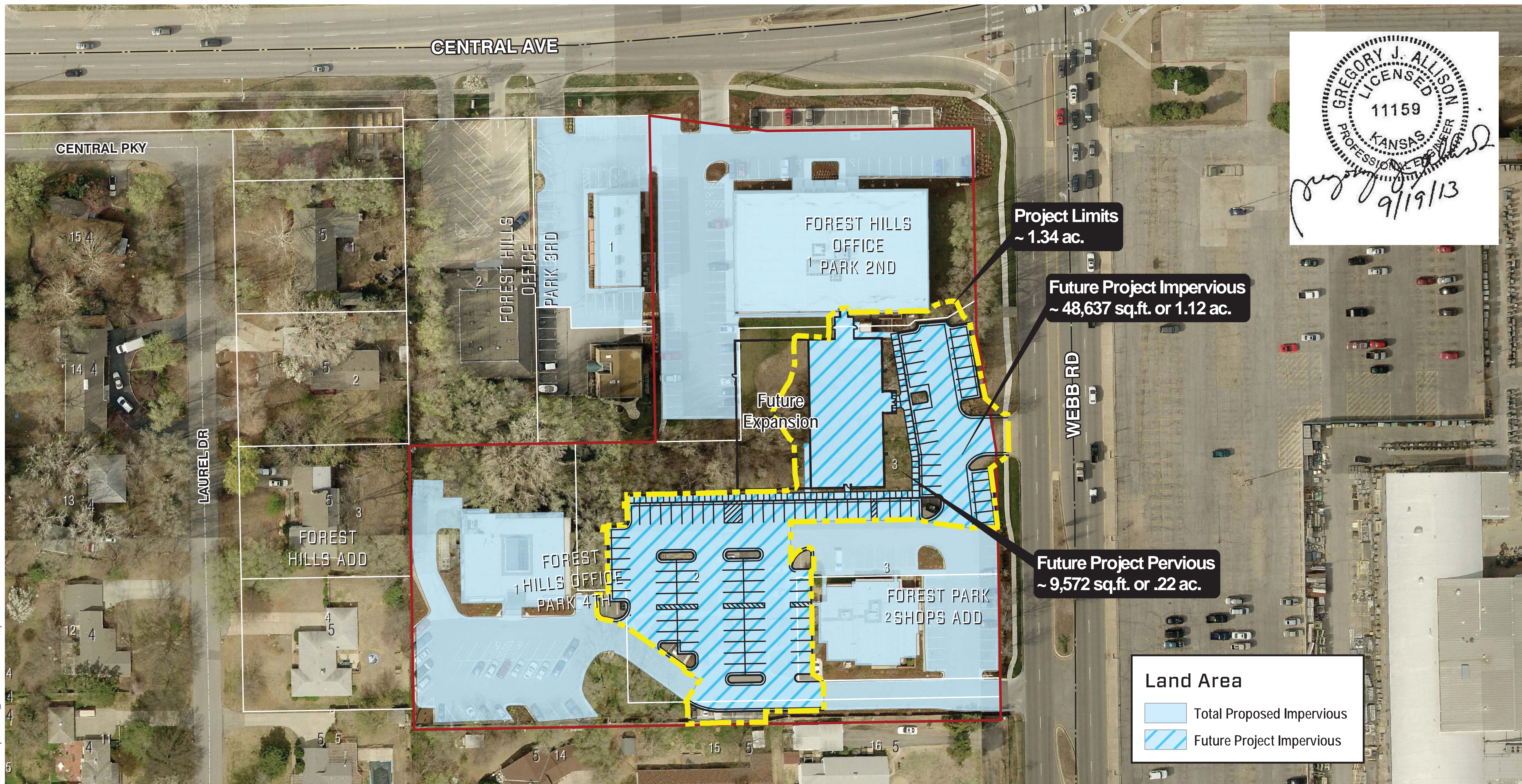
INSTALLATION WITHOUT TRENCHING



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EROSION CONTROL DETAILS		
PROJECT NO.	0195PPD	
DATE	SEPT. 2013	
SCALE	NTS	
DESIGNED	DRAWN	CHECKED
MKEC	SLF	SPE
NO.	REVISION	DATE
SHEET NO.		
8 OF 10		

Path: L:\Maps\MKEC_ICT\MKEC\Impervious.mxd



MKEC New Office Building

ERU Plan Sheet
Friday, October 11, 2013

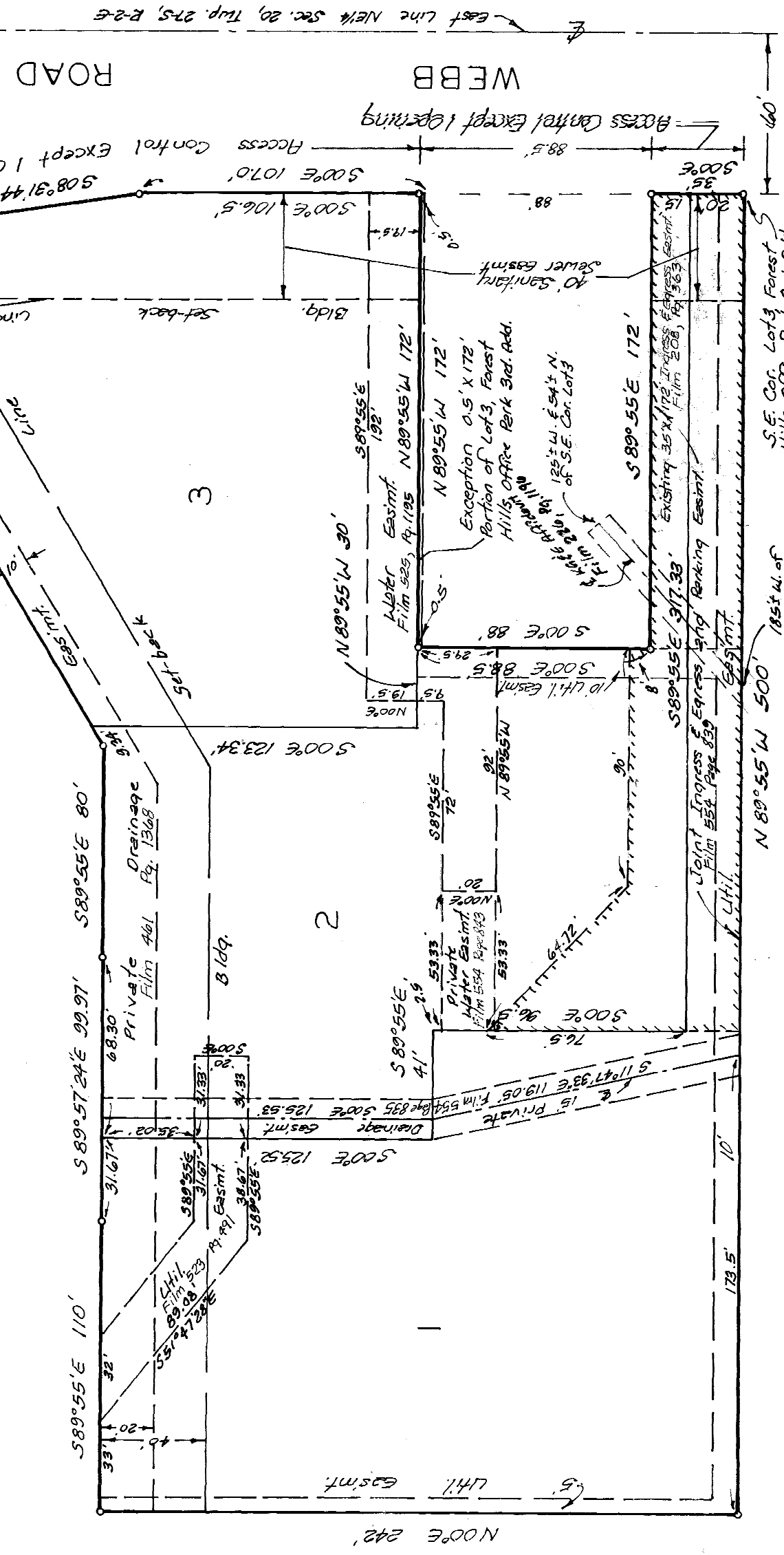


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FOREST HILLS OFFICE PARK FOURTH ADDITION

WICHITA, KANSAS

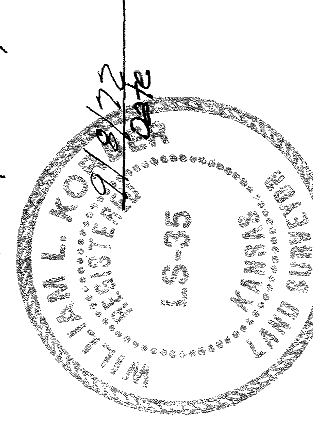


Minimum Bay Elevation
171.0 City Datum

State of Kansas & S.S. We, Beughman Company, P.A., Surveyors in and said county and state do hereby certify that we have surveyed and plotted FOREST HILLS OFFICE PARK FOURTH ADDITION, Wichita, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as and being a replat of Lot 3, Forest Hills Office Park Third Addition, Wichita, Sedgewick County, Kansas, except that part described as commencing at the southern most S.E. Corner of said Lot 3; thence North along the east line of said Lot 3 and extended, 123 feet to a place of beginning; thence N89°55'W 172 feet; thence N00°0'E 0.5 feet; thence S89°55'E 172 feet; thence S00°W 0.5 feet to the place of beginning. Easements being vacated by virtue of K.S.A. 12-512(6). All being situated in the NE1/4 of Sec. 20, Twp. 27-S, R-2-E.

Beughman Company, P.A.

William L. Kowalski Surveyor
William L. Kowalski



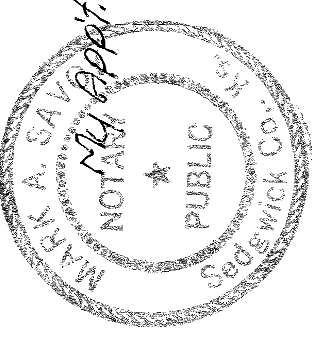
I know all men by their presents described in the surveys certificate to be plat lot in lots to be known as "FOREST HILLS OFFICE PARK FOURTH ADDITION, Wichita, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. All abutters rights of access to or from Webb Rd. over and across the east line of Lots 1, 2 and 3 are hereby granted to the City of Wichita, provided, however that Lots 1 and 2 shall have access to Webb Rd. at 1 joint point and that Lot 3 shall have access to Webb Rd. at 1 point. All as shall be determined by the City Engineer of the City of Wichita, Kansas. No structure shall be constructed below a minimum pad elevation of 171.0 City Datum.

Kathryn B. Gould James B. Gould
Kathryn B. Gould

The City of Wichita, a municipal corporation.

Albert J. Jirik Mayor
Albert J. Jirik
Donald C. Gistick City Clerk

State of Kansas & S.S. This instrument acknowledged before me, this 2nd day of September 1982, by Kathryn B. Gould and James B. Gould, her husband.



Mark A. Smay Notary Public
Mark A. Smay

This plat of "FOREST HILLS OFFICE PARK FOURTH ADDITION", Wichita, Kansas has been submitted and approved by the Wichita Sedgewick County Metropolitan Area Planning Commission, Wichita, Kansas. Dated this 1st day of July 1982. Wichita-Sedgewick County Metropolitan Area Planning Commission.

James J. Gagnier II Chairman
James J. Gagnier II
Robert A. Larkin Secretary

This plat approved and all declarations shown herein accepted by the Board of Commissioners of the City of Wichita, Kansas, this 1st day of DECEMBER, 1982.

Albert J. Jirik Mayor
Albert J. Jirik
Donald C. Gistick City Clerk

This plat approved and all declarations shown herein accepted by the Board of Commissioners Sedgewick County, Kansas, this 1st day of DECEMBER, 1982.

Jack Specht Chairman
Jack Specht
Tom Scott Commissioner

Donald E. Gentry Commissioner
Donald E. Gentry
Dorothy K. White County Clerk

Entered on transfer record this 1st day of DECEMBER, 1982.

Dorothy K. White County Clerk
Dorothy K. White

State of Kansas & S.S. This is to certify that this plat has been filed for record in the office of the Register of Deeds, this 1st day of DECEMBER, 1982, at 1:32 o'clock P.M.; and is duly recorded.

Patricia M. East Register of Deeds
Patricia M. East
Pat Kettler Deputy

State of Kansas & S.S. This instrument acknowledged before me, this 11th day of November 1982, by Albert J. Jirik, Mayor and Donald C. Gistick, City Clerk of the City of Wichita, a Municipal Corporation.

Debra D. Stenberg Notary Public
Debra D. Stenberg

My Appt. Exp. 3-20-83
DEBRA D. STENBERG
STATE NOTARY PUBLIC
KANSAS
MEMBER, COUNTY BOARD OF NOTARIES
NO. 1997, Exp. 3-20-83

PLAT		
PROJECT NO.	0195PPD	
DATE	SEPT 2013	
SCALE	NTS	
DESIGNED	DRAWN	CHECKED
SLF	BKS	GJA
#	---	###/###
NO.	REVISION	DATE

STORM WATER SEWER PLAN FOR

FOREST HILLS OFFICE PARK

PHASE 1