

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 (GAS) 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 1-888-298-3530
KANSAS GAS SERVICE 1-888-482-4950
EVERGY 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 ABOUTING 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. 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 FIELD GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE CONSULTANT ENGINEER AND DAWNITA REINHART AT 655-0740 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 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 CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4460.
- CITY MAINTENANCE OF STORM SEWER ENDS AT THE LAST STRUCTURE IN THE EASEMENT OR RIGHT-OF-WAY.
- FOLLOW THE LINK BELOW FOR CONSTRUCTION DETAILS ON SPECIFIC CITY OF WICHITA STANDARD DETAILS: <http://www.wichita.gov/PWUJ/Pages/Regulations.aspx>
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- EXISTING UTILITIES AND THEIR LOCATION, 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.
- A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDING 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 OF THE MANHOLE.
- GEOTECHNICAL REPORT AVAILABLE UPON REQUEST.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
- 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.
- 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.
- DEVELOPER FOR THIS PROJECT IS:
BS GOLF - WICHITA, LLC
4045 E SUNSHINE STE. 200
SPRINGFIELD, MO, 65809
TIM O'REILLY
(417) 851-8700

252.7' 48" RCP
251.2' 36" RCP
441.8' 24" RCP
22' 15" RCP
50' 30" RCP
13' 8" PVC
1 - 48" End Sec
1 - 30" End Sec

1 - 5' Dia Manhole 1 - 8x3 doghouse manhole
2 - 6x3 manholes
1 - 6x6 mahole
1 - 10x5 curb inlet 1 - 6x3 area inlet
1 - 5x5 curb inlet
1 - 5x4 curb inlet
1 - 5x3 curb inlet

PRIVATE STORM WATER SEWER

TO SERVE

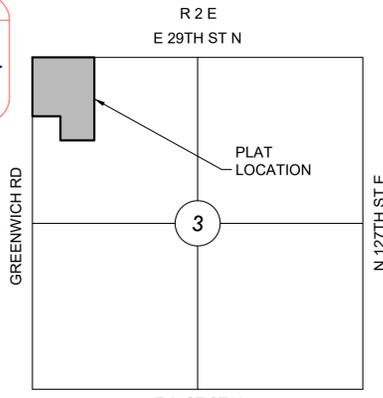
GREENWICH COMMONS ADDITION

PROJECT NO. 2021-000727PPD

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

ORG CODE 56030970

AS BUILTS
Contractor: Ewertz Excavation 2/17/2022
Project Inspector: Larry Gann
KE MILLER ENGINEERING PA
117 E. Lewis, Wichita, KS 67202 (316)264-0242

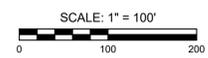
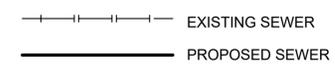


VICINITY MAP

No Scale



LEGEND

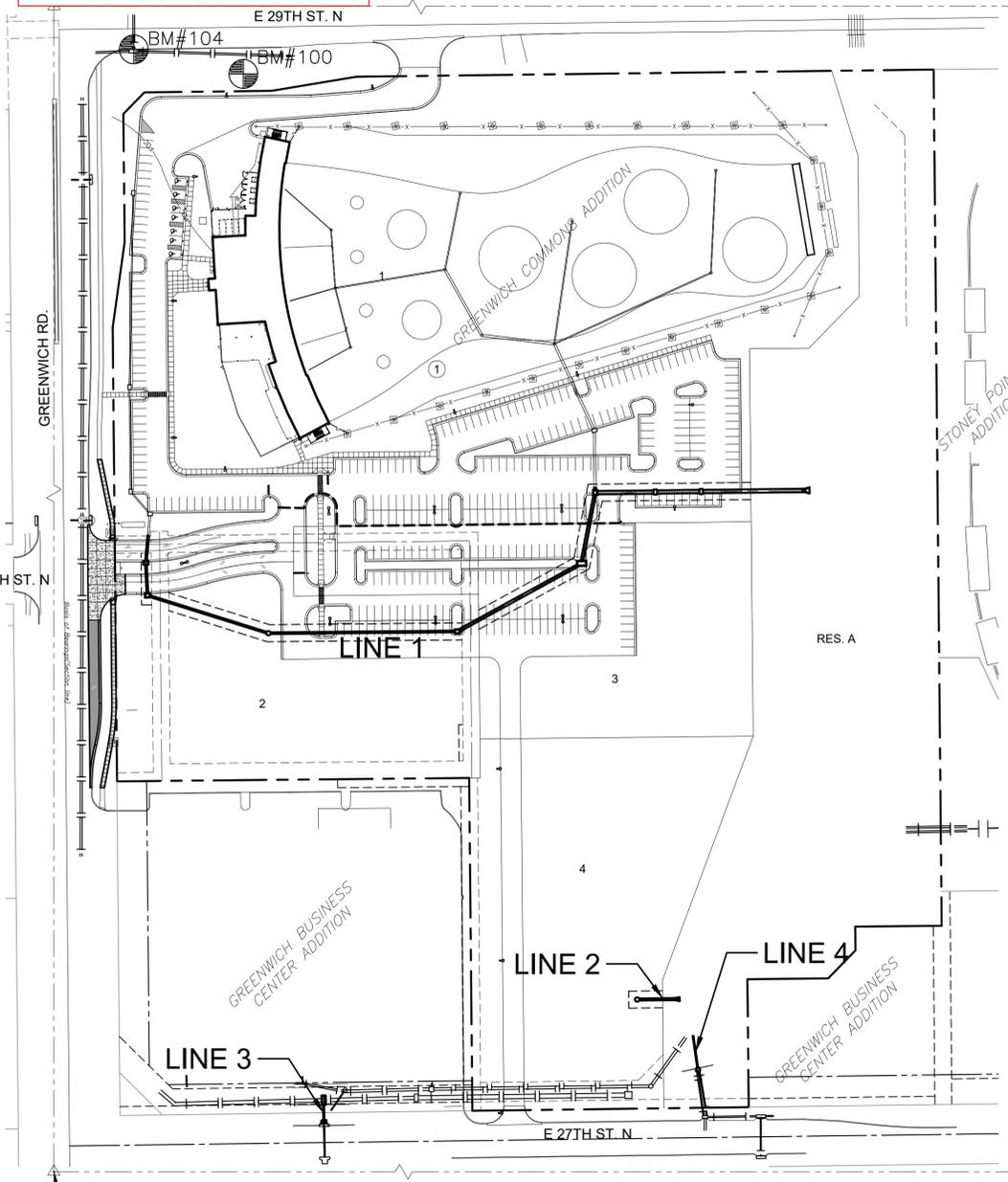


NOTE

All control points shown have elevations established using standard surveying procedures and can be used as temporary benchmarks. When using a control point as a temporary benchmark, it is recommended that cross-checks be made to other control points or benchmarks to confirm elevations prior to use.

UTILITIES

The underground utilities shown hereon were marked in the field by the utility owners in response to Kansas One Call Ticket Numbers: 21352666, 21352689 and 21352699



SW Cor., NW ¼
Sec. 3, T27S, R2E

CONTROL POINTS

CP1
N: 1705155.819 E: 1688806.255 EL: xxxxx
Description of control point: N1/4 Corner S3,T27S,R2E

CP2
N: 1705122.158 E: 1686161.364 EL: xxxxx
Description of control point: NW Corner S3,T27S,R2E

CP3
N: 1702441.198 E: 1686186.725 EL: xxxxx
Description of control point: W1/4 Corner S3,T27S,R2E

CP100
N: 1705070.085 E: 1686378.624 EL: 1391.763
Description of control point: Alum Cap

BENCHMARKS

BM100
N: 1705070.085 E: 1686378.624 EL: 1391.763 (88)
Description of Benchmark: 5/8" rebar with MKEC Aluminum Cap
217 feet East and 52 feet South of Greenwich and 29th/ S1 N intersection.

BM 104
N: 1705098.881 E: 1686249.581 EL: 1388.920 (88)
Description of Benchmark: Square cut front center of curb inlet, 87.5 feet east and 23.5 feet south of intersection Greenwich Rd and 29th/ S1 N.

DATUM

The Horizontal Datum is based on the Kansas Coordinate System of 1983, NAD83(2011), EPOCH:2010.0000, South Zone. Coordinates shown have been modified to the ground using a combined adjustment factor of 1.0001200144. State Plane coordinates can be calculated by multiplying the shown values by 0.99988.

All elevations shown are based on the NAVD 88 vertical datum.

SE Cor., NW ¼
Sec. 3, T27S, R2E

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
01	PPD TITLE
02-07	STORM WATER DETAILS
08-09	SWS LINE 1
10	SWS LINE 2 & LINE 3
11	SWS LINE 4

SEE GENERAL NOTE #13 FOR CITY OF WICHITA STANDARD BMP LINK

Stormwater Certification:
New Development or Redevelopment (Circle One)

Stormwater Permit # SW2011-0049

NOI Permit # KS No. S-WA20-0121, Fed No. KSR116010

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.

Site Area (Acres) = 22.20
Disturbed Area (Acres) = 22.0
Water Quality Treatment: 2.7 ac-ft
Downstream Channel Protection: 3.6 ac-ft
Detention: 19.9 ac-ft

The BMP used for this development is regional wet pond

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS ENGINEERING AND STORMWATER DIVISION

Engineering	approved by Benjamin Ferguson on this day the 15th of December, 2021
Storm Water	approved by Joe Hickle on this day the 15th of December, 2021

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 the City Engineer. 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.

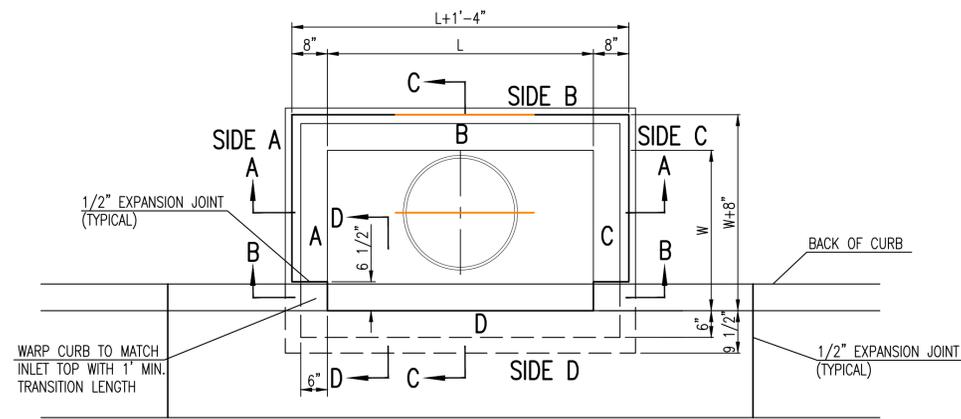


STORM WATER SEWER PLANS FOR
GREENWICH COMMONS ADDITION
WICHITA, KANSAS

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PPD TITLE

PROJECT NO.	2021-000727PPD	
DATE	12/15/21	
SCALE	1"=100'	
DESIGNED	DRAWN	CHECKED
SPE	LM	SPE
NO.	REVISION	DATE



TOP VIEW

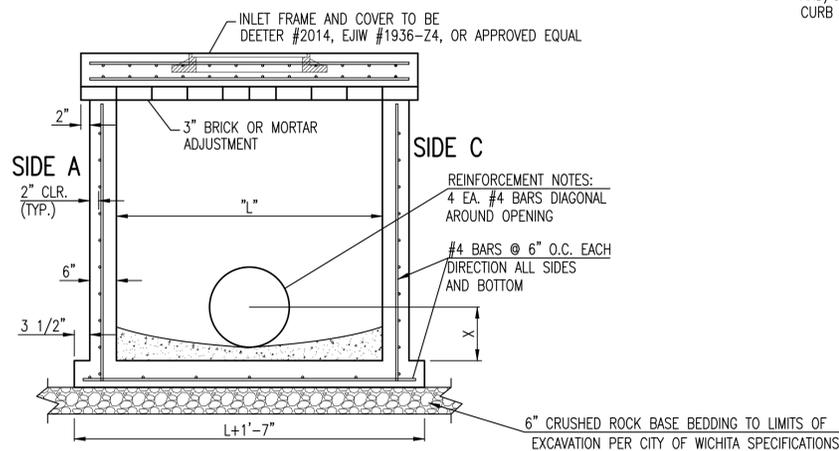
BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

W	PRE-CAST TOP SIZE			PIPE DIA.**
	WIDTH	LENGTH	TOP	
3'-0"	W+8"	L+1'-4"	7 1/2"	21" & SMALLER
4'-0"	W+8"	L+1'-4"	7 1/2"	24" & 30"
5'-0"	W+8"	L+1'-4"	7 1/2"	36" & 42"
6'-0"	W+8"	L+1'-4"	7 1/2"	48" & 54"
7'-0"	W+8"	L+1'-4"	7 1/2"	60" & 66"

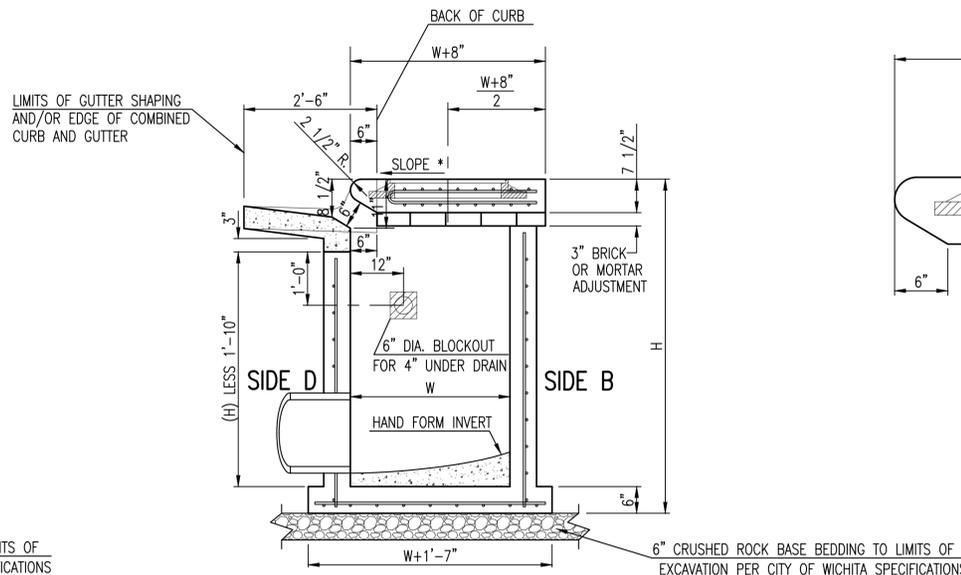
** FOR PIPES PERPENDICULAR TO INLET WALL

GENERAL NOTES

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

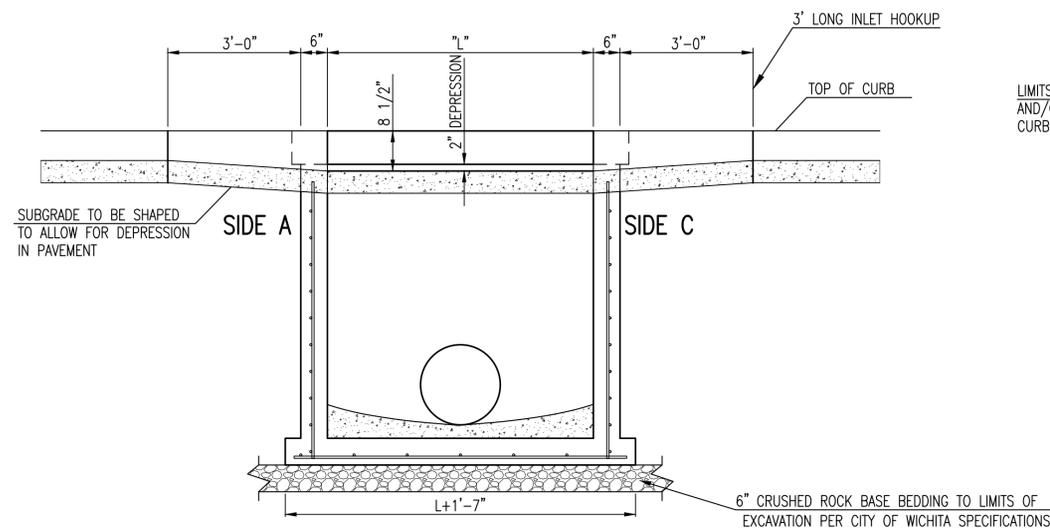
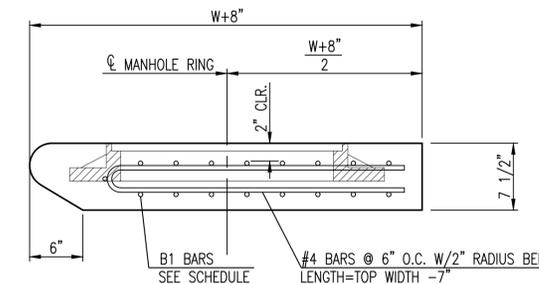


SECTION "A-A"

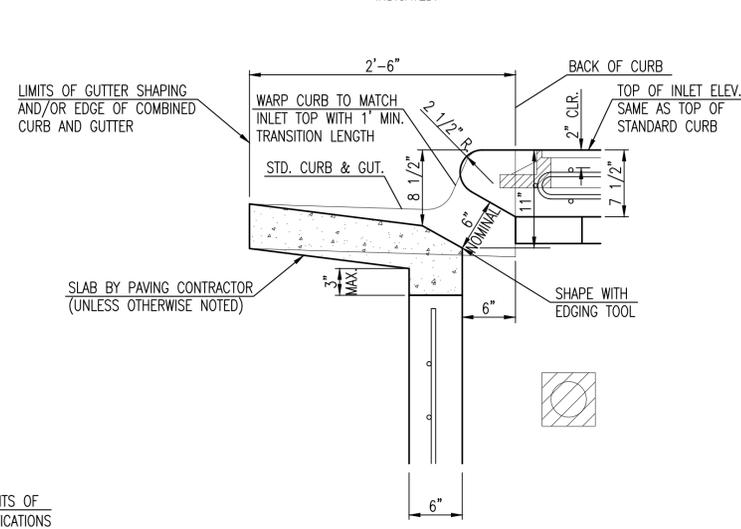


SECTION "C-C"

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



SECTION "B-B"



SECTION "D-D"

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CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

REVISED: MARCH 2015

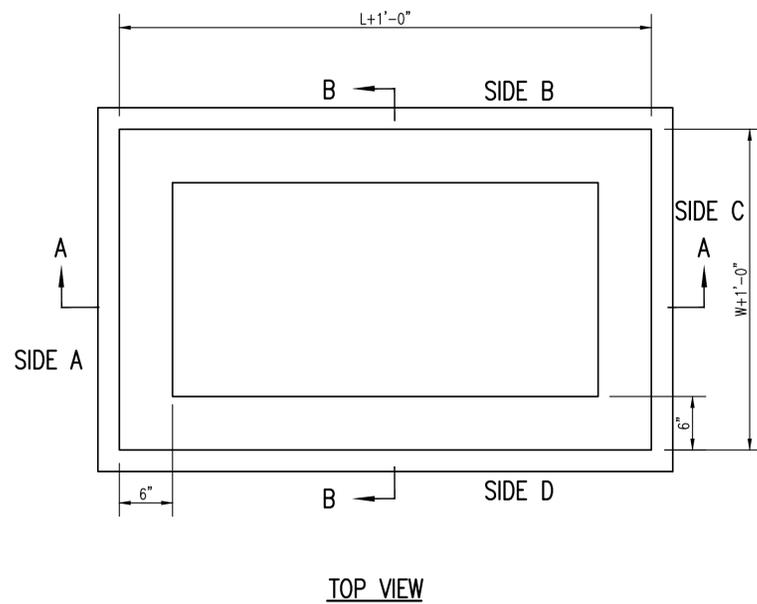
**STANDARD TYPE 1
CURB INLET
5'-0" OR 10'-0" OPENING**

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
2021-000727PPD	####	12/15/21

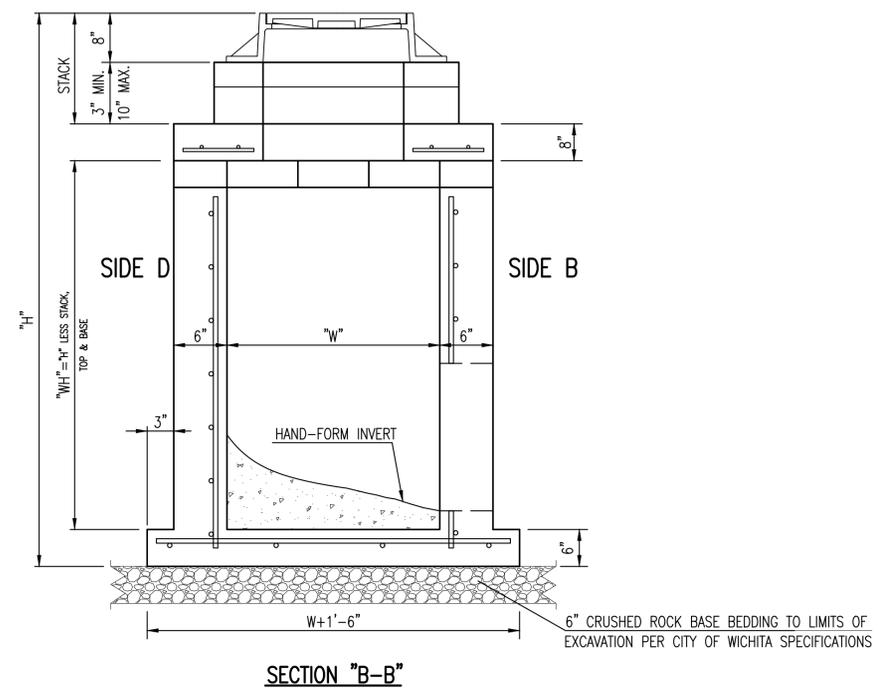
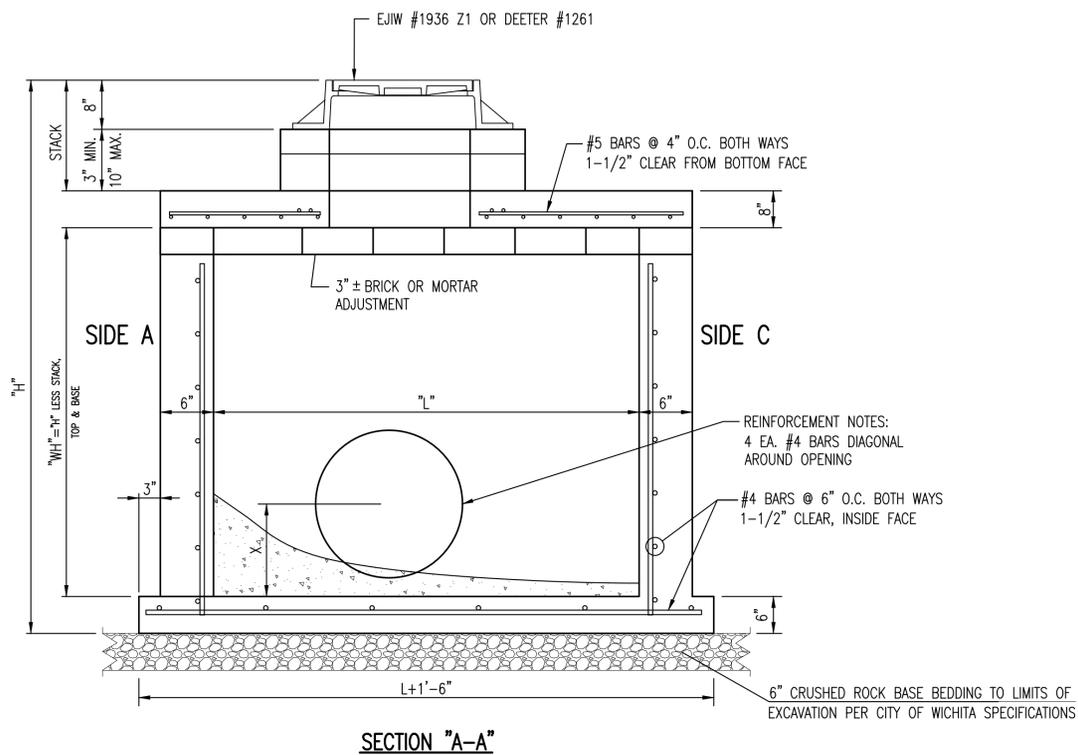
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
02 OF 11

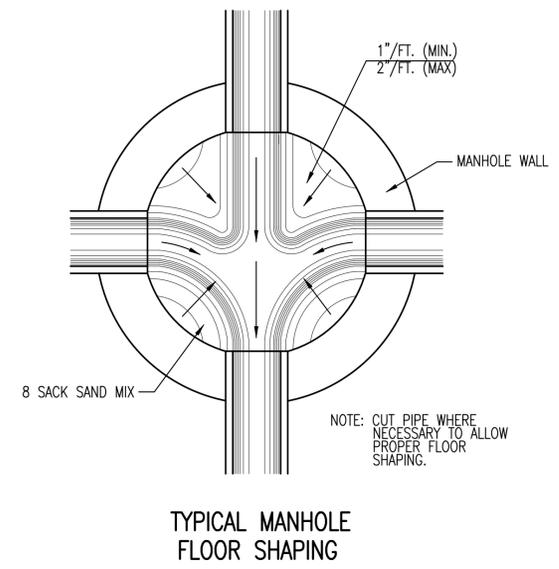
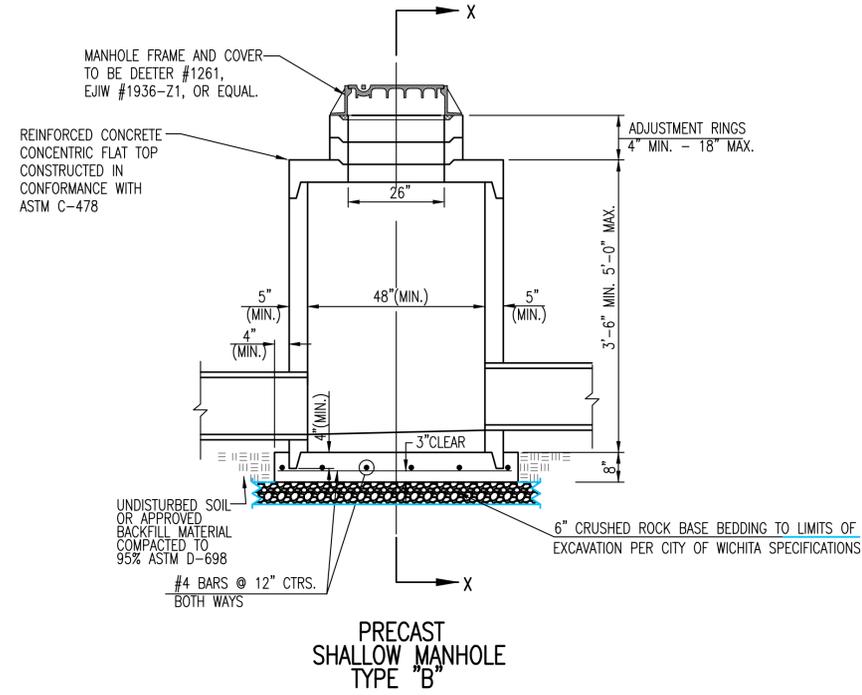
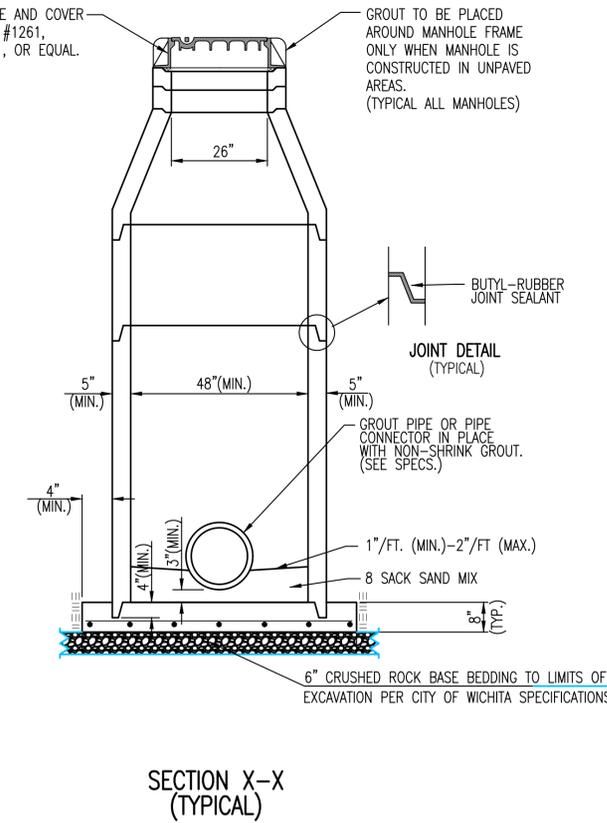
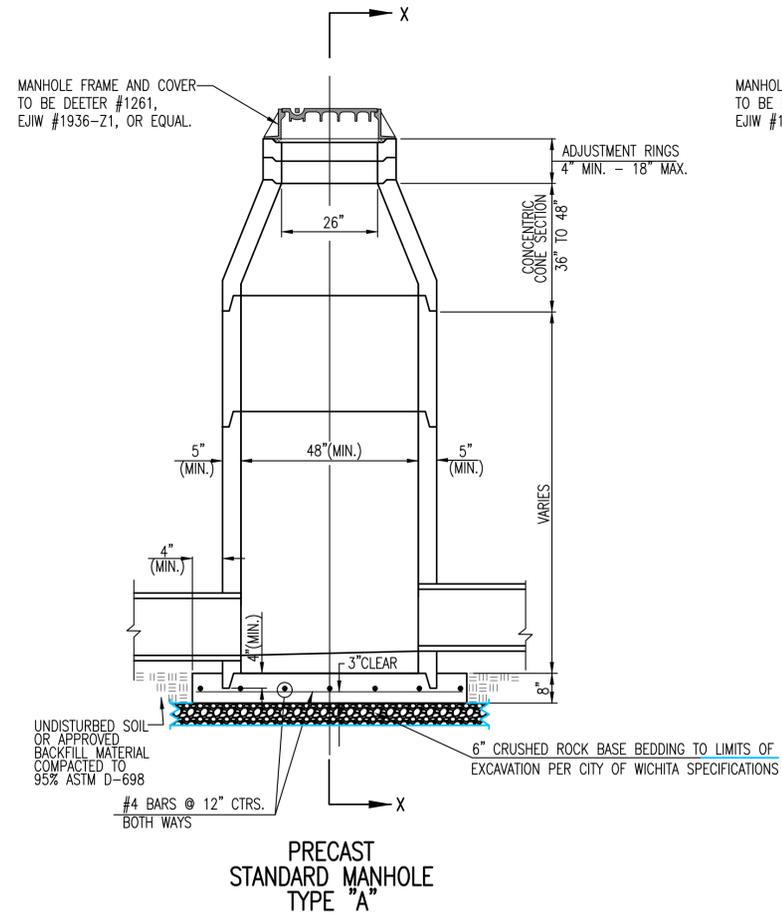


GENERAL NOTES

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.



REINFORCED CONCRETE MANHOLE (STORM SEWER)		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
2021-000727PRD	####	12/15/21
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		03 OF 11



GENERAL NOTES

- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
- CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
- MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
- MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
- CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
- THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
- MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-Z1, OR APPROVED EQUAL, SEE SW-303.
- FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
- FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.

REVISED: MARCH 2015



CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

PRECAST CONCRETE MANHOLE (STORM SEWER)

CITY ENGINEER
GARY JANZEN, P.E.

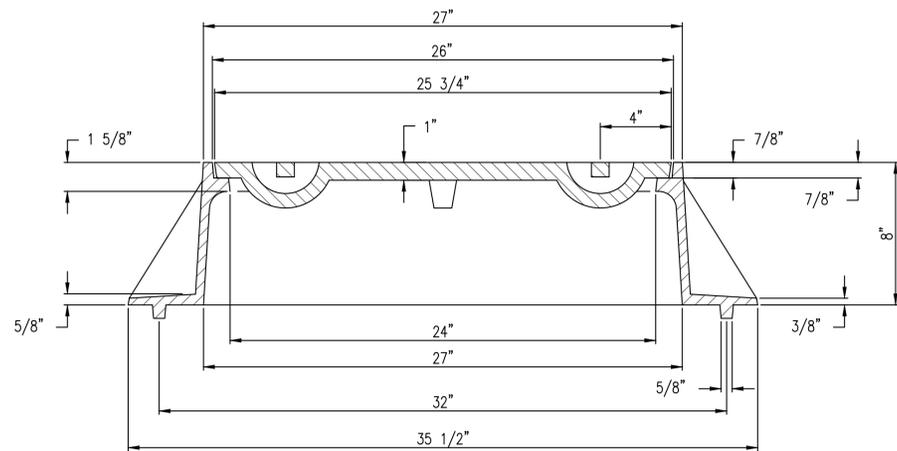
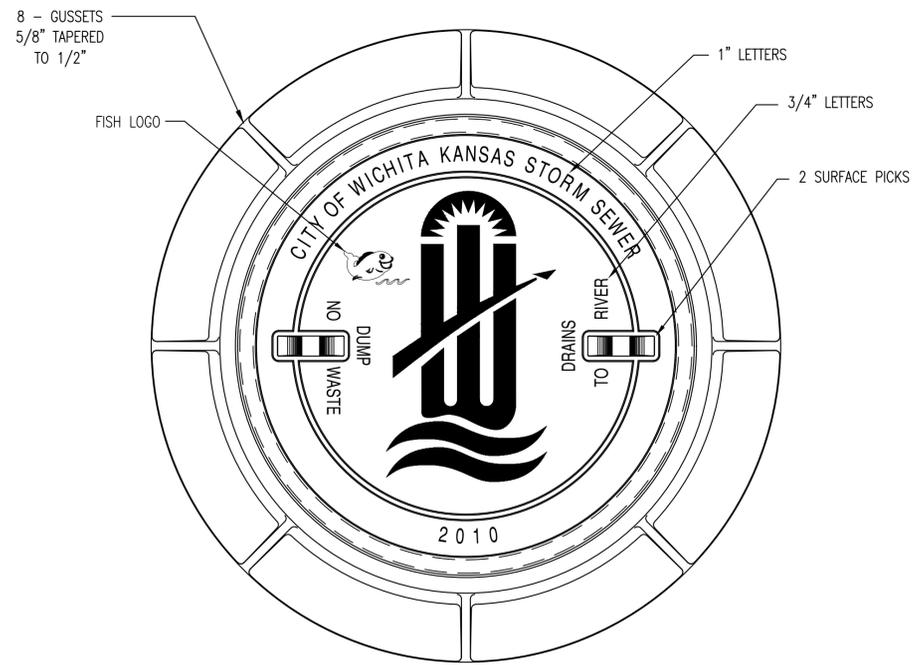
PROJECT NUMBER	OCA NUMBER	DATE
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CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
04 OF 11

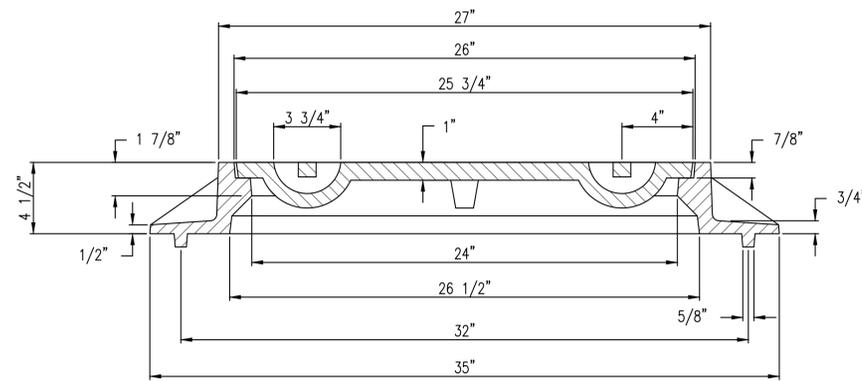
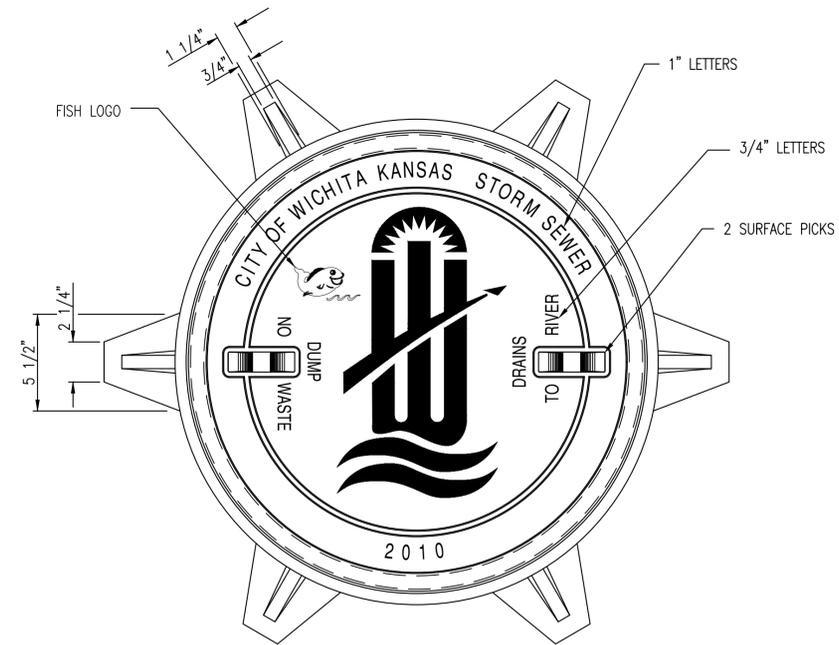
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\\victmas03\Projects\2021\2101010434_ARCO_Top Golf Wichita\00 210434 CAD\SW\Development PPD\SW-301-Precast Conc MH.dwg



MANHOLE FRAME
DEETER #1261 OR EJIW #1936-Z1

- NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.
 2. COVER TO BE DEETER #1261 OR EJIW #1936A.



INLET FRAME
DEETER #2014 OR EJIW #1936-Z4

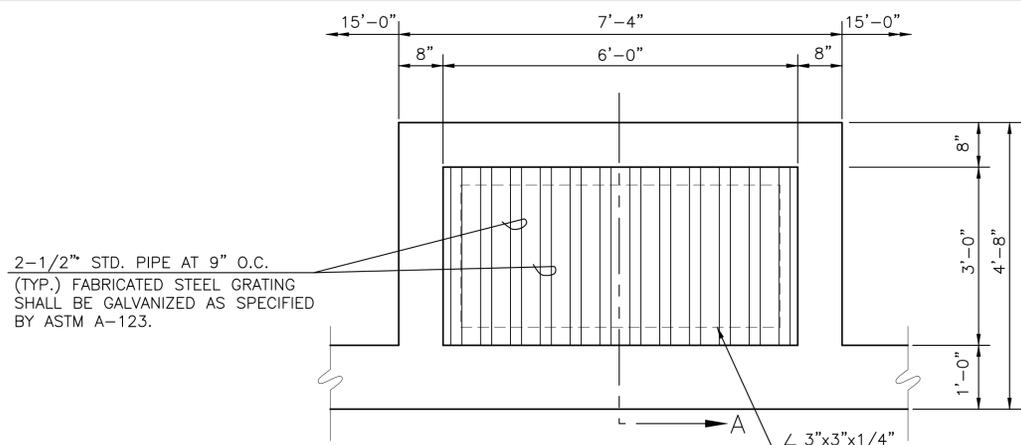
- NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
 2. NOT TO BE USED UNDER PAVEMENT.
 3. COVER TO BE DEETER #1261 OR EJIW #1936A.



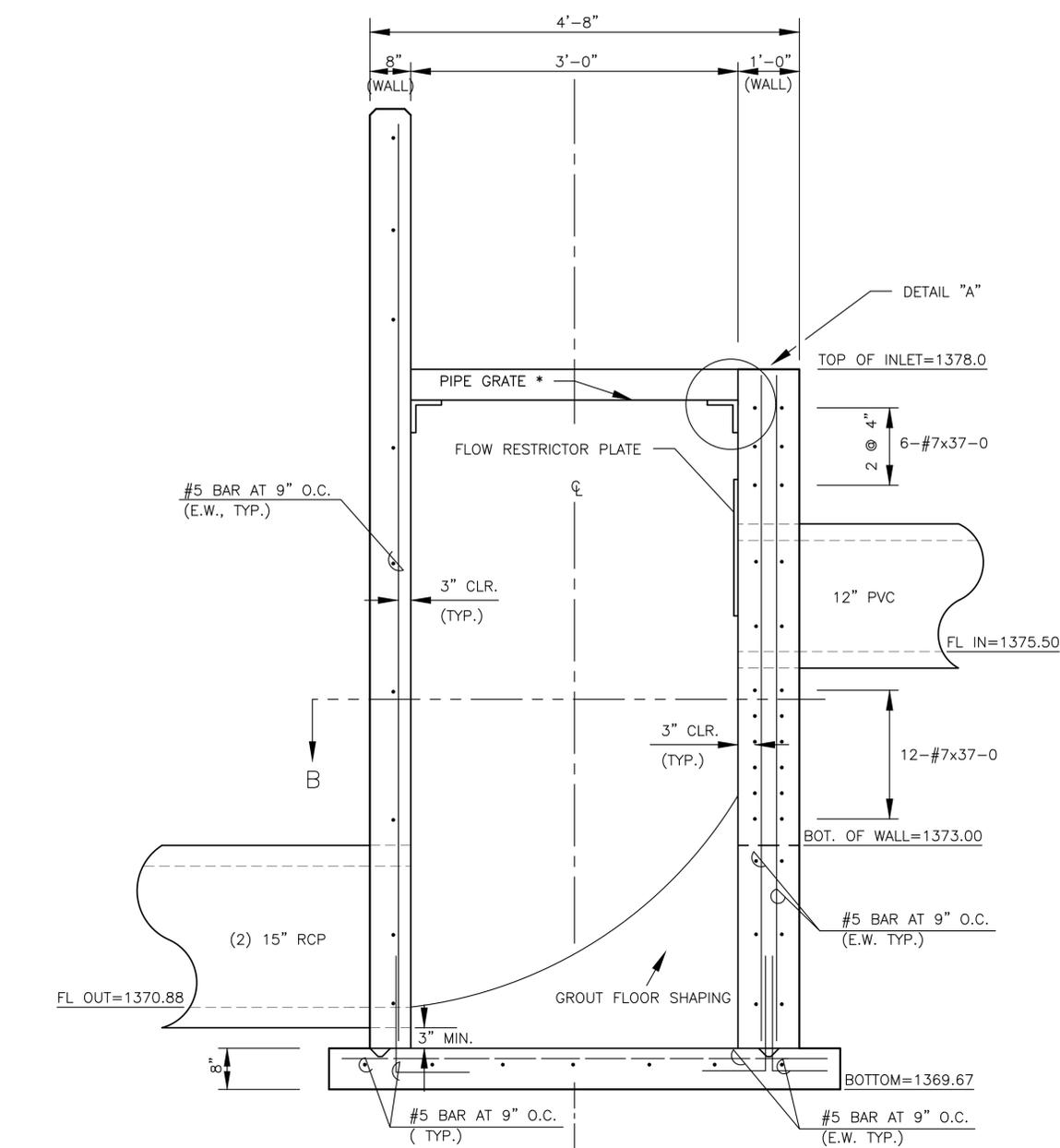
MANHOLE/INLET FRAME AND COVER (STORM SEWER)		
CITY ENGINEER GARY L. JANZEN, P.E.		
PROJECT NUMBER 2021-000727PPD	OCA NUMBER ####	DATE 12/15/21
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 05 OF 11

PLOTTED: Wednesday, December 15, 2021 @ 09:43AM

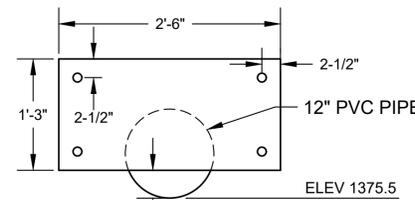
\\ICTNAS03VOL7\PROJECTS\2021\121010434_ARCO_TOP_GOLF_WICHITA\00_210434_CADD\SHS\606_CIVIL\SW\DEVELOPMENT\PPD\AREA-INDWG



PARTIAL PLAN VIEW
(REINF. NOT SHOWN FOR CLARITY)

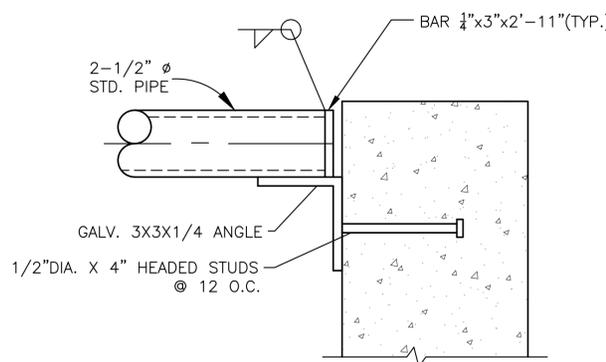


SECTION A



NOTE:
1. PLATE TO BE 1/4" A36 STEEL, GALV. PER ASTM-A123, BOLTS TO BE (4) HILTI 304 STAINLESS STEEL KWIK BOLT TZ EXP. ANCHOR W/ 3-1/4" MIN. CONC. EMBED AND 4" MIN. HOLE DEPTH

FLOW RESTRICTOR PLATE

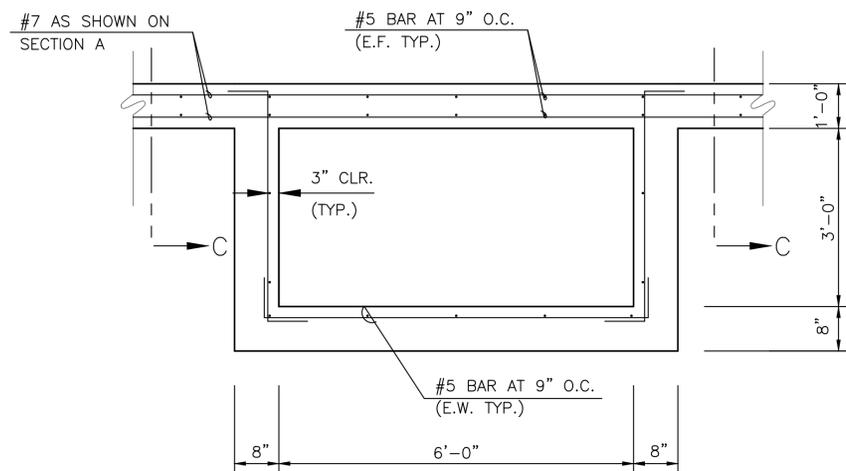


NOTE:
FABRICATED STEEL GRATING SHALL BE GALVANIZED AS SPECIFIED BY ASTM A-123.

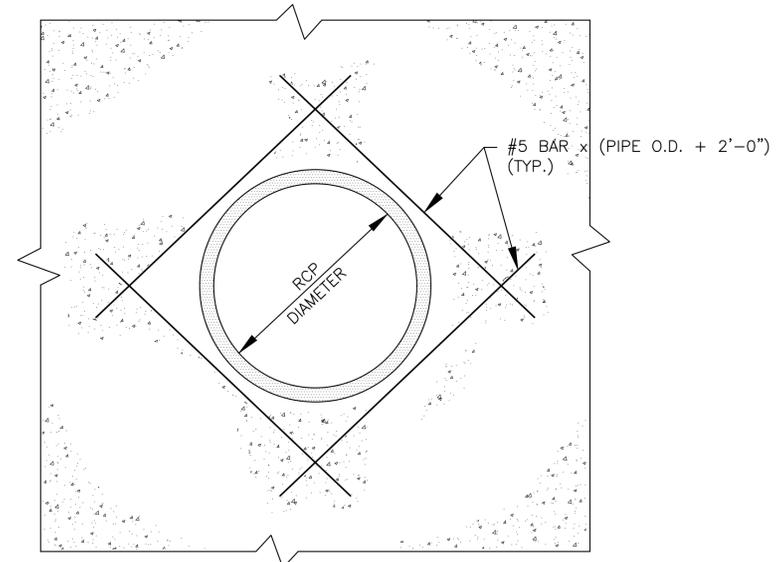
DETAIL "A"

MATERIAL SPEC'S

- MORTAR - TYPE "M"
- BRICK - ASTM C62 GRADE MW
- STEEL - ASTM A36 OR EQUIVALENT GALV. ASTM A-123 STDS.
- CONCRETE - $f'_c = 4,000$ PSI MINIMUM WITH 6 SACKS OF CEMENT PER CUBIC YARD MINIMUM.

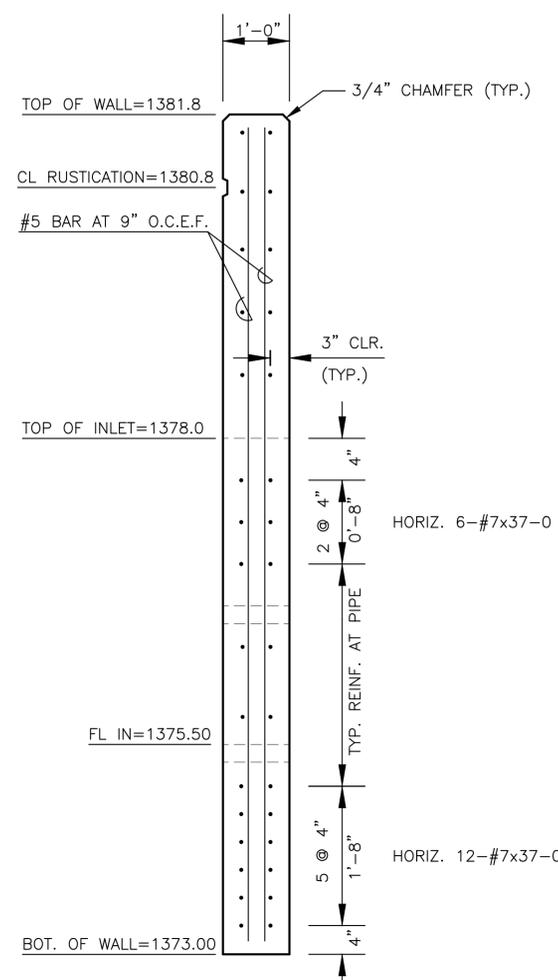


SECTION B



NOTE:
CUT REINFORCING AS REQUIRED TO CLEAR PIPE.

TYPICAL REINFORCING AT PIPE
(WALL REINF. NOT SHOWN FOR CLARITY)



SECTION C



STORM WATER SEWER PLANS FOR
GREENWICH COMMONS ADDITION
WICHITA, KANSAS

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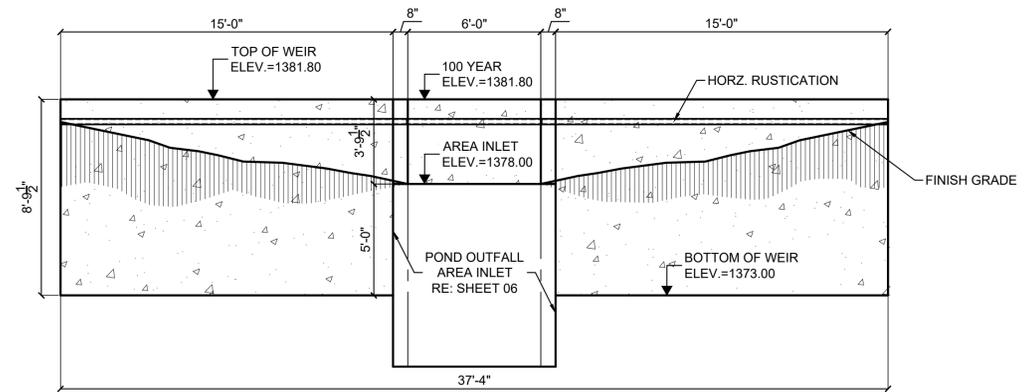
POND OUTFALL AREA INLET

PROJECT NO.	2021-000727PPD	
DATE	12/15/21	
SCALE	NTS	
DESIGNED	DRAWN	CHECKED

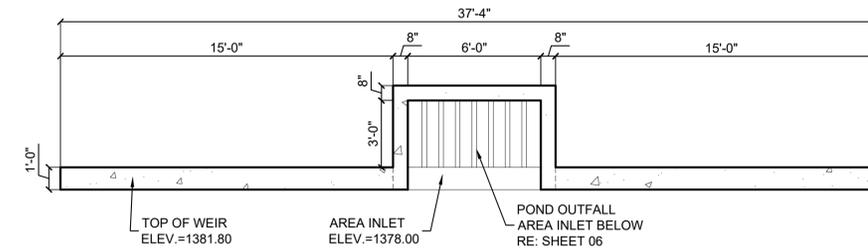
NO.	REVISION	DATE

GENERAL NOTES

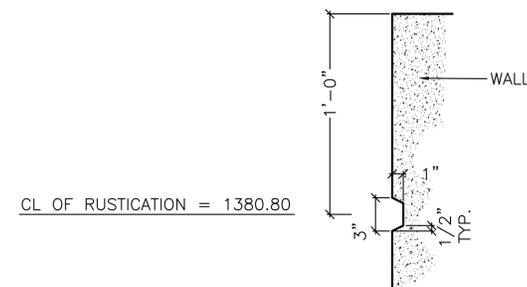
1. All concrete to have minimum compressive strength of 4000 psi at 28 days. Contractor shall submit concrete mix design to Engineer for approval prior to construction.
2. All concrete shall conform to the current "ACI MANUAL OF CONCRETE PRACTICE".
3. Portland Cement shall conform to ASTM C-150, TYPE I.
4. All aggregate for normal weight concrete shall meet ASTM C33.
5. All reinforcing to meet ASTM A36.
6. All footings shall bear on undisturbed earth or engineered fill at elevations shown on details.
7. All backfill of the weir shall be compacted to 95% of ASTM D698.



1 WEIR 1 - DOWNSTREAM ELEVATION
1/4" = 1'



2 WEIR 1 - PLAN
1/4" = 1'



3 HORIZONTAL RUSTICATION
NOT TO SCALE

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WEIR WALL

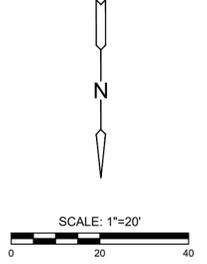
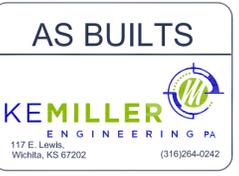
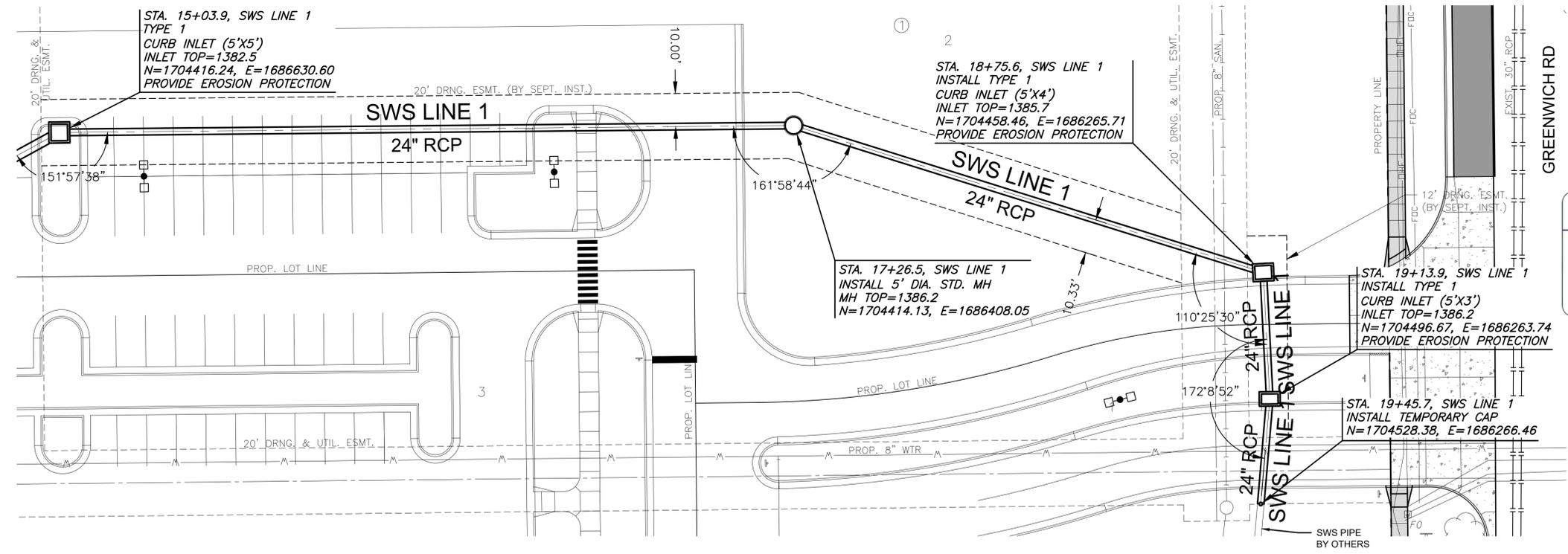
PROJECT NO.	2021-000727PPD	
DATE	12/15/21	
SCALE	NTS	
DESIGNED	DRAWN	CHECKED

NO.	REVISION	DATE

SHEET NO.

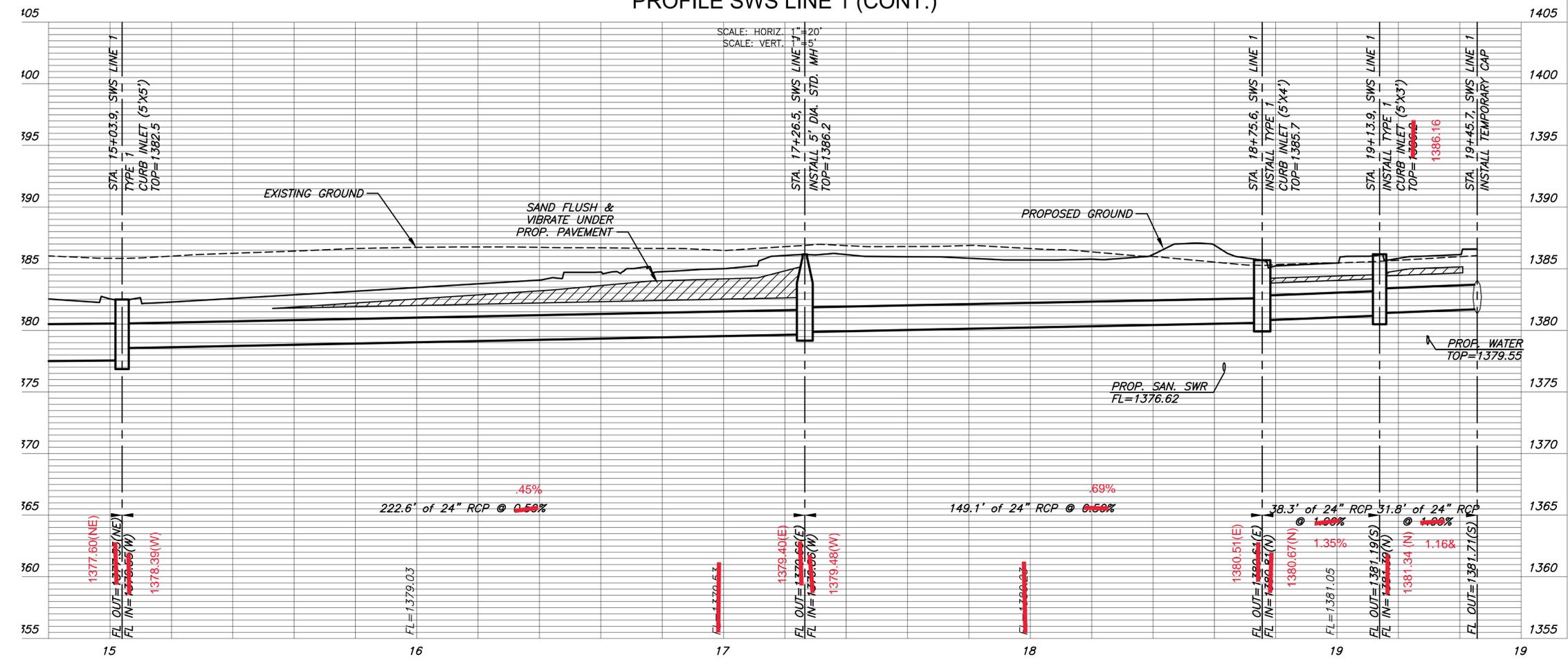
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NOTE:
CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

PLAN SWS LINE 1 (CONT.)
PROFILE SWS LINE 1 (CONT.)

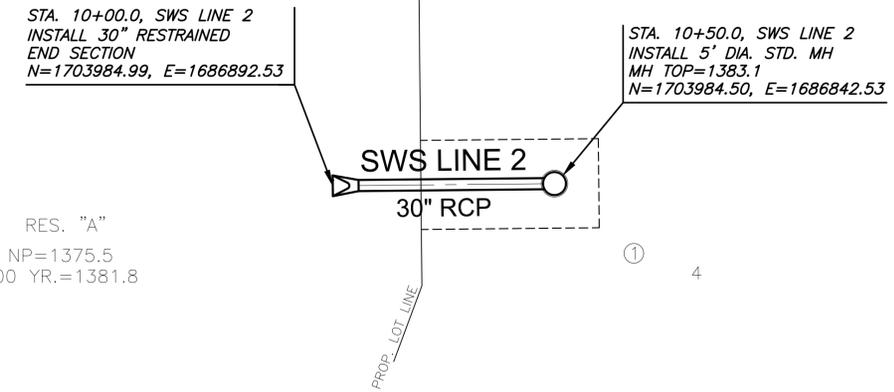
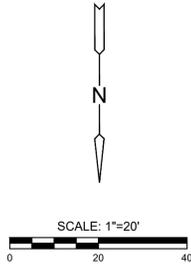


STORM WATER SEWER PLANS FOR
GREENWICH COMMONS ADDITION
WICHITA, KANSAS

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SWS LINE 1 (CONT.)		
PROJECT NO.	2021-000727PPD	
DATE	12/15/21	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
SPE	LM	SPE
NO.	REVISION	DATE
SHEET NO. 09 OF 11		

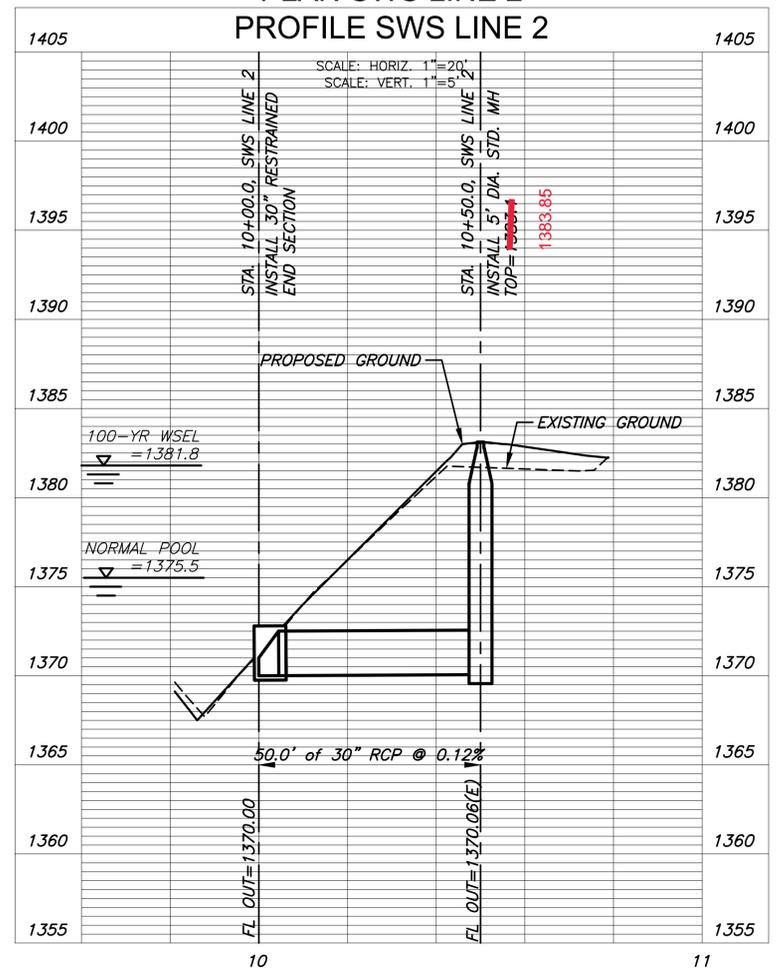
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 PLOTTED: Wednesday, December 15, 2021 @ 09:45AM



RES. "A"
 NP=1375.5
 100 YR.=1381.8

NOTE:
 CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

PLAN SWS LINE 2
PROFILE SWS LINE 2



AS BUILTS

KEMILLER ENGINEERING PA

117 E. Lewis,
Wichita, KS 67202

(316)264-0242

CONTRACTOR TO REMOVE AND REPLACE, IN LIKE KIND, ASPHALT PAVEMENT, CURB AND GUTTER AND BOX WOOD SHRUBS, AS NECESSARY TO CONST. STORM.

STA. 10+00.0, SWS LINE 3
 INSTALL 8'X3' REINF. CONC. MH (DOGHOUSE) OVER EXIST. 76"x48" HERCP
 MH TOP=1383.1
 N=1703866.37, E=1686472.87

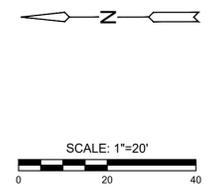
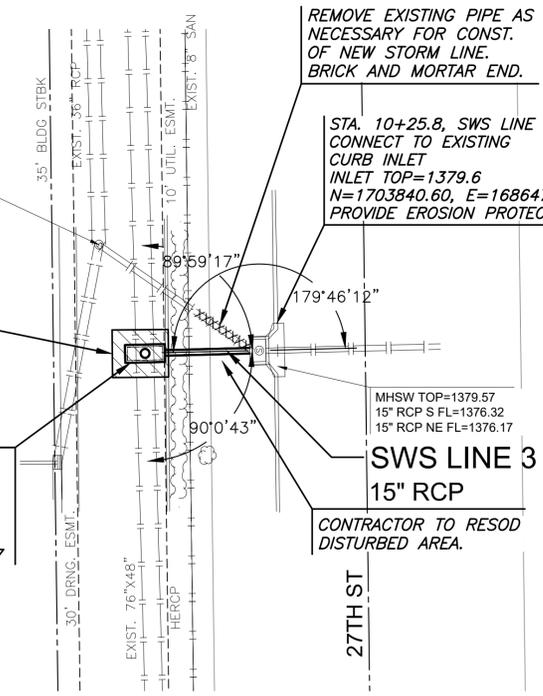
MHSW TOP=1383.28
 24" RCP W FL=1375.93
 15" RCP SW FL=1375.88
 36" RCP E FL=1374.33

REMOVE EXISTING PIPE AS NECESSARY FOR CONST. OF NEW STORM LINE. BRICK AND MORTAR END.

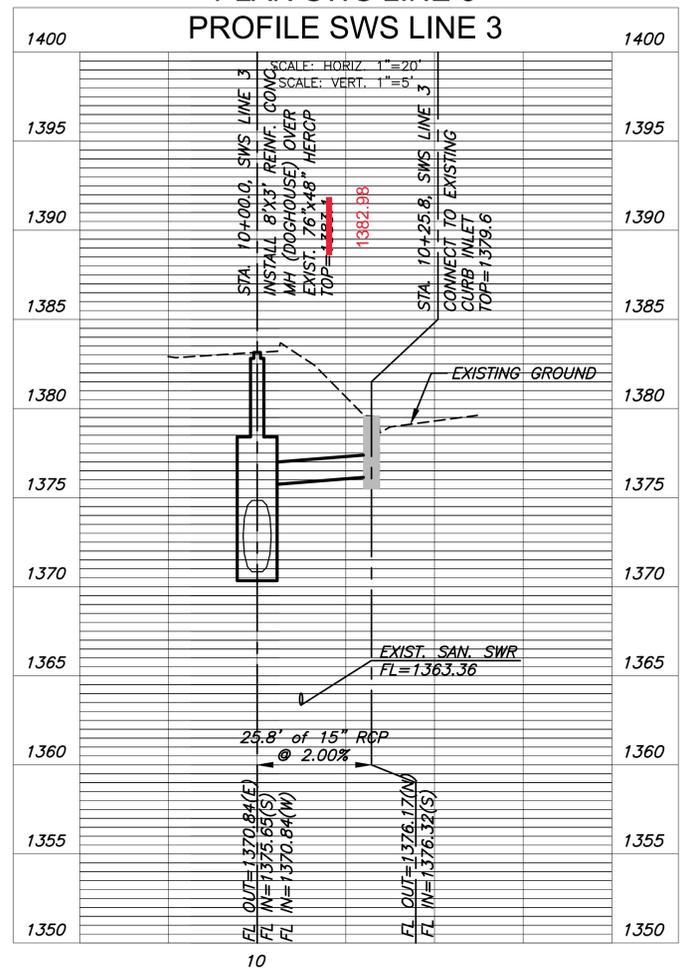
STA. 10+25.8, SWS LINE 3
 CONNECT TO EXISTING CURB INLET
 INLET TOP=1379.6
 N=1703840.60, E=1686473.54
 PROVIDE EROSION PROTECTION

MHSW TOP=1379.57
 15" RCP S FL=1376.32
 15" RCP NE FL=1376.17

CONTRACTOR TO RESOD DISTURBED AREA.



PLAN SWS LINE 3
PROFILE SWS LINE 3



STORM WATER SEWER PLANS FOR

GREENWICH COMMONS ADDITION

WICHITA, KANSAS

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SWS LINE 2 & LINE 3

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DATE	12/15/21	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
SPE	LM	SPE

NO.	REVISION	DATE

PLOTTED: Wednesday, December 15, 2021 @ 08:47AM
 \\VICTAS03\VOL7\PROJECTS\2021\101010434_ARCO_TOP_GOLF_WICHITA\00_210434_CADD\SHS\DEVELOPMENT\PPD\21434_SWS LINE 4.DWG

AS BUILTS

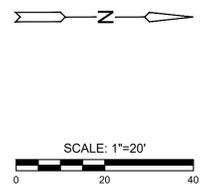
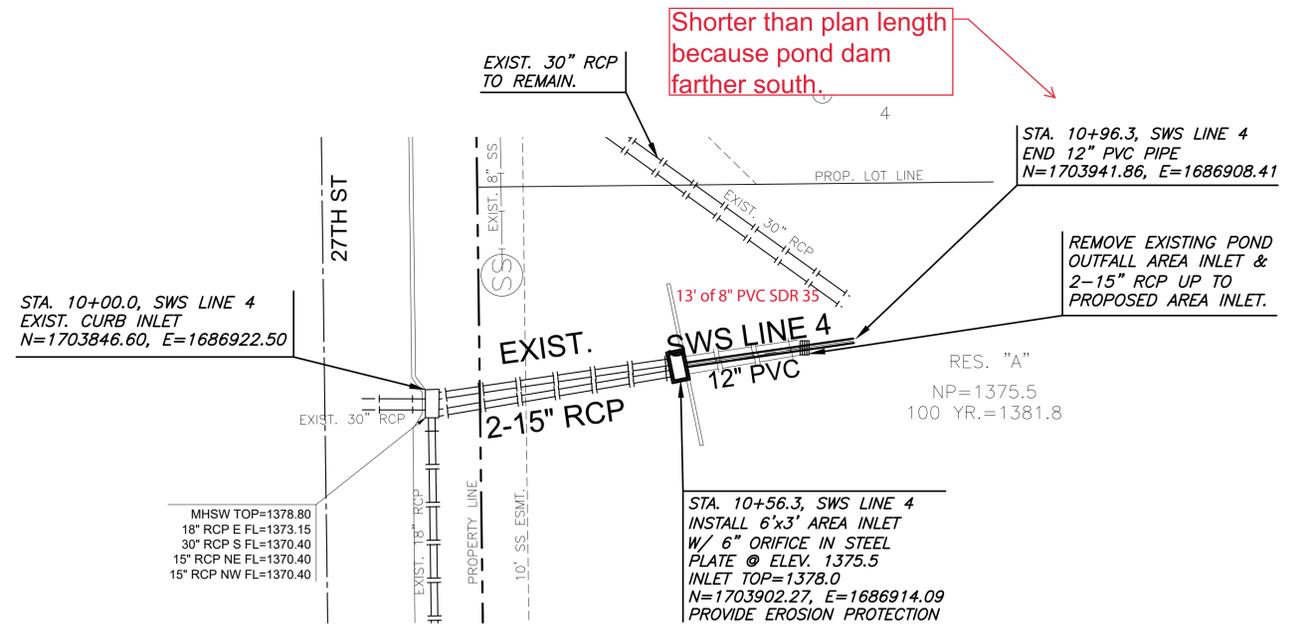
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SWS LINE 4		
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DATE	12/15/21	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
SPE	LM	SPE
NO.	REVISION	DATE
SHEET NO.		
11 OF 11		



NOTE:
 CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

