

# SANITARY SEWER RELOCATION

TO SERVE

## SOUTH BLUFF COURT

(SOUTH OF MT. VERNON AND WEST OF BLUFF AVE.)

IN

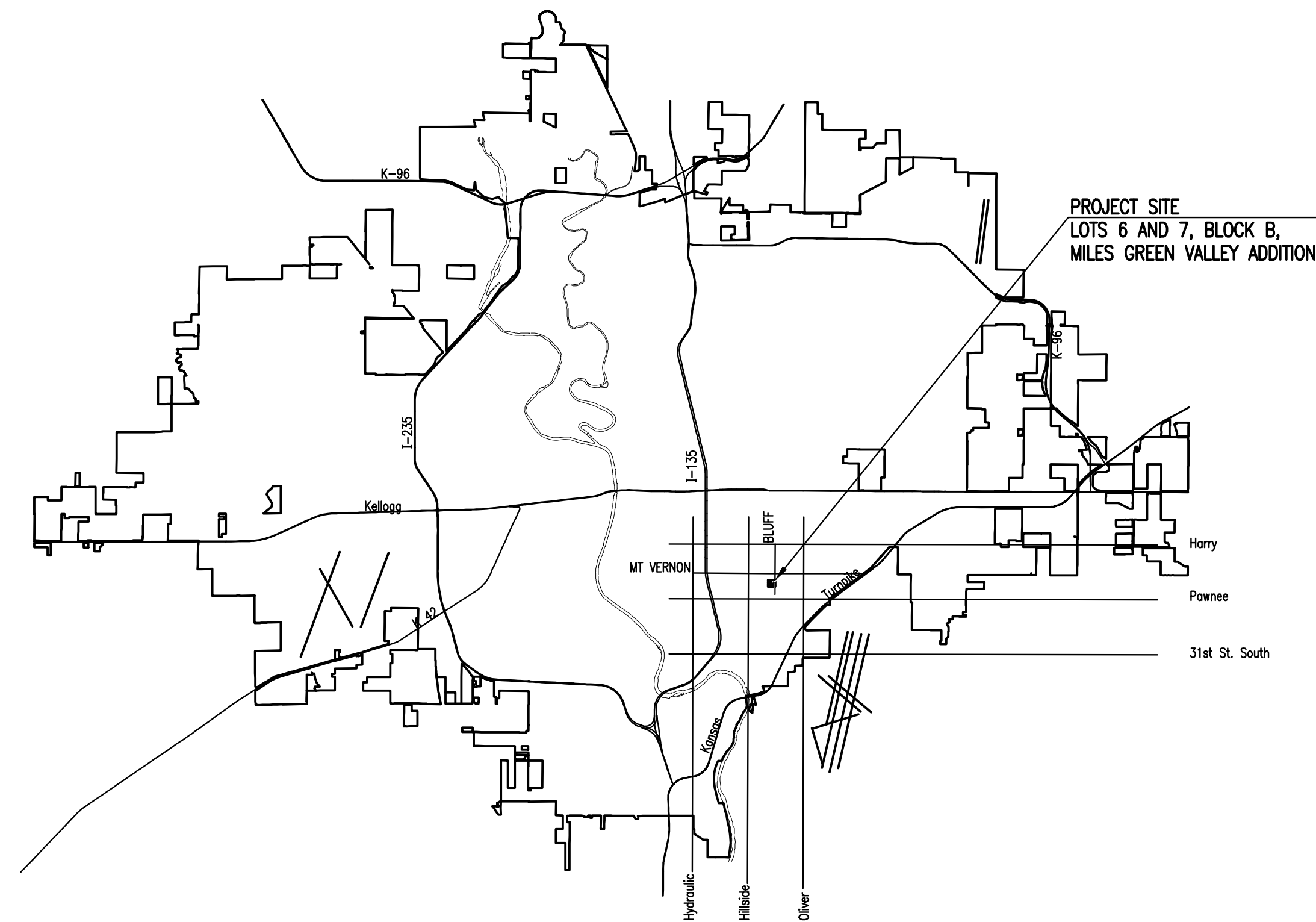
## THE CITY OF WICHITA, KANSAS

CITY OF WICHITA PROJECT NO. 468-85295

OCA NO. 628104

GARY JANZEN, P.E. - CITY ENGINEER

Apex Excavation - Contractor  
 J. Terhune - City of Wichita, Field Project Engineer  
 J. Jaso - City of Wichita, Inspector  
 As-built  
 Date of Completion: 12/10/2021  
 pdf: apr 4/8/2022



LOCATION MAP

**INDEX OF SHEETS**

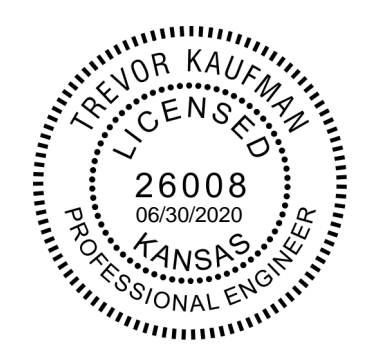
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# JUNE 2020

PLANS PREPARED BY

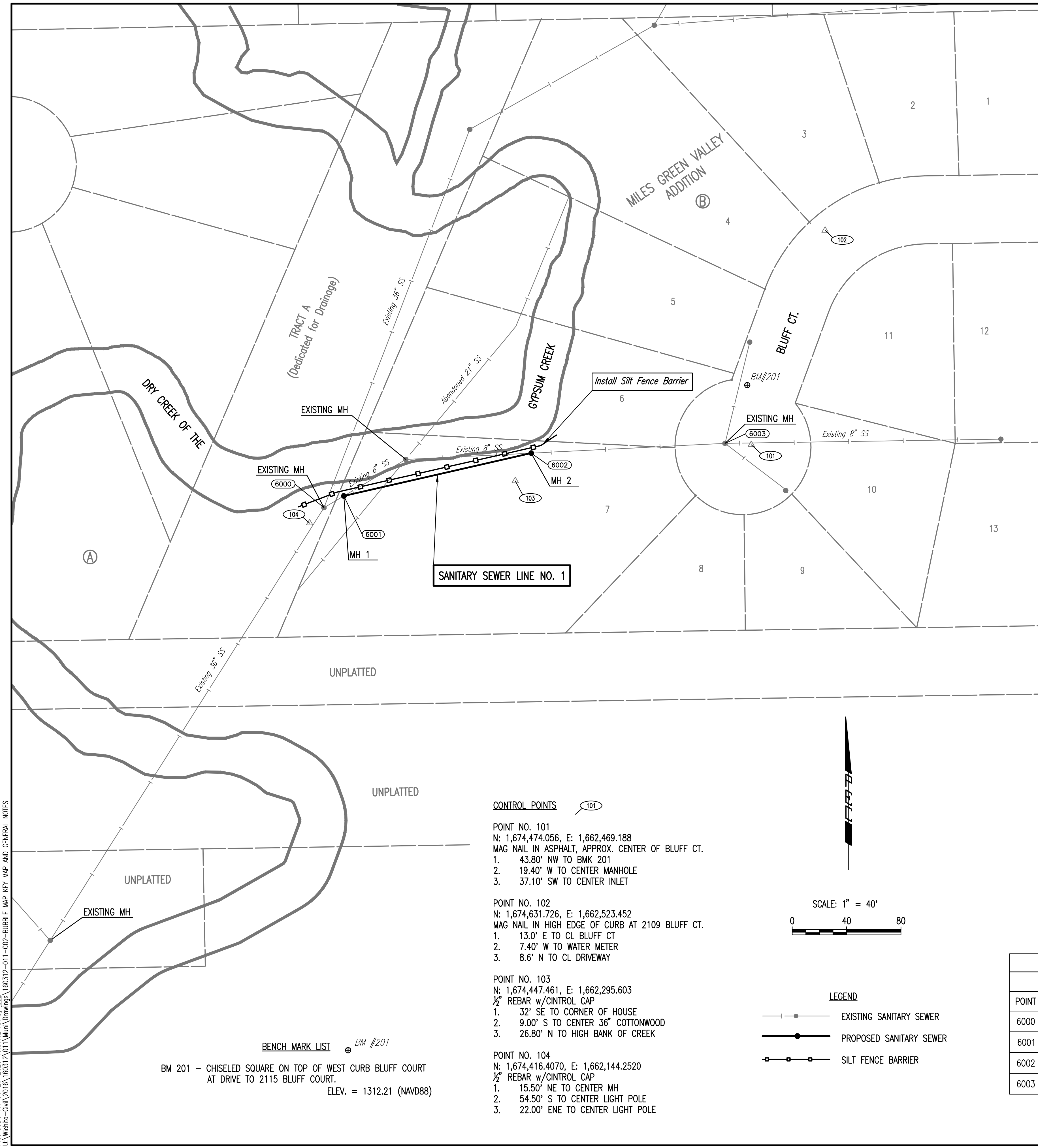
## PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS  
 WICHITA, KANSAS



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 U:\Wichita-Civil\2016\60312\01\Wm\Drawings\160312-01-001-TITLE SHEET

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 U:\Wichita-Civil\2018\160312\011\Main\Drawings\160312-011-002-BUBBLE MAP KEY MAP AND GENERAL NOTES



BLUFF AVE.

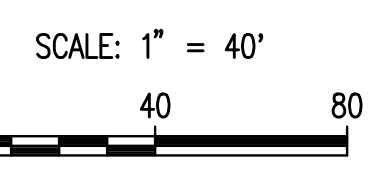
**GENERAL NOTES**

- ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT THEY WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARD TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
- THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION TO ADVISE THEM OF THE INTENDED WORK AND OF HIS PROPOSED SCHEDULE:  
  
 MR. DAVID KETTEMAN  
 2117 S. BLUFF CT.  
 WICHITA, KS 67218  
 316-828-6019 (WORK)  
 316-682-6234 (HOME)
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:  
  

EMERGENCY DISPATCH	911
AT&T	800-246-8464
CITY OF WICHITA WATER & SEWER	316-219-8921
CITY OF WICHITA STORMWATER	316-268-4090
CITY OF WICHITA TRAFFIC	316-268-4034
BLACK HILLS ENERGY	800-694-8989
COX COMMUNICATIONS	888-249-3530
KANSAS GAS SERVICE	888-482-4950
EVERGY	800-544-4857
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION AT THE CONTRACTORS EXPENSE
- ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE DRAWINGS, 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. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL HAVE ALL BURIED LINES LOCATED AND FLAGGED IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND REVIEW ALL BURIED LINES LOCATED TO DETERMINE IF CONFLICTS EXIST. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 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 THEIR CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION"
- EASEMENTS AND RIGHT-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHT-OF-WAY DESIRED TO USE IN COMPLETING THE WORK.
- THE CONTRACTOR SHALL CONTAIN THEIR OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT ALL TIMES. INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA AND LOCAL BUSINESS OR RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA ARE TO BE CARRIED THROUGH CONSTRUCTION. THE CONTRACTOR SHALL UTILIZE WARNING SIGNS, FLASHING LIGHTS, BARRICADES, AND FLAGMEN IN COMPLIANCE WITH LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) TO ENSURE SAFETY
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO 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 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 MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.
- THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES OR SHRUBS WHERE POSSIBLE. 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 ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE. THE COST FOR ANY NECESSARY TREE TRIMMING, CLEARING AND/OR GRUBBING SHALL BE SUBSIDIARY TO "SITE CLEARING". FULL TREE REMOVAL SHALL BE NOTED ON THE PLANS AND SHALL BE BID AS "TREE REMOVED, LARGE", "TREE REMOVED, SMALL", OR "TREE ROW REMOVED".
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, IRRIGATION, LANDSCAPING, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET, UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE REPLACEMENT OF ALL THE AFOREMENTIONED ITEMS SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION".
- THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE EROSION CONTROL DEVICES DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION. THE FOLLOWING QUANTITIES ARE ESTIMATED, AND SHOULD BE CONSIDERED THE MINIMUM EFFORT REQUIRED.  
  
 SILT FENCE BARRIER 200 LF.
- THE CONTRACTOR SHALL TAKE CARE TO PREVENT SILT AND DEBRIS FROM ENTERING ANY STORM DRAINAGE SYSTEM DURING CONSTRUCTION. PIPES OR STRUCTURES WHICH CONTAIN MATERIALS FROM THE CONTRACTORS ACTIVITIES SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR, AT THEIR OWN EXPENSE, PRIOR TO THE FINAL INSPECTION.
- ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH SO2 AS THE SAME TYPE AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SODDING, MULCHING, AND/OR RE-SEEDING. ALL SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR6.5 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE BID ITEM "SODDING".
- THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF PERMANENT SEEDING/SODDING IS APPLIED. TEMPORARY SEEDING OR PERMANENT SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED. ALL COSTS FOR TEMPORARY RYE GRASS SEEDING SHALL BE INCLUDED IN THE BID ITEM "SEEDING, TEMPORARY".
- THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS FLOW OF SEWAGE THROUGH CONSTRUCTION. CONTRACTOR'S PROPOSED METHOD FOR MAINTAINING SEWAGE FLOW SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO STARTING AND BY-PASSING OF SEWAGE FLOWS. COST OF MAINTAINING FLOW OF SEWAGE THROUGH CONSTRUCTION WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER RELATED ITEMS OF WORK.
- THE CONTRACTOR SHALL PREVENT ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION.
- CONTRACTOR SHALL NOT DIVERT ANY SEWAGE FLOW THROUGH NEW PIPE OR MANHOLES UNTIL TESTING HAS BEEN COMPLETED AND ACCEPTED.

**CONTROL POINTS**

- POINT NO. 101  
 N: 1,674,474.056, E: 1,662,469.188  
 MAG NAIL IN ASPHALT, APPROX. CENTER OF BLUFF CT.  
 1. 43.80' NW TO BMK 201  
 2. 19.40' W TO CENTER MANHOLE  
 3. 37.10' SW TO CENTER INLET
- POINT NO. 102  
 N: 1,674,631.726, E: 1,662,523.452  
 MAG NAIL IN HIGH EDGE OF CURB AT 2109 BLUFF CT.  
 1. 13.0' E TO CL BLUFF CT  
 2. 7.40' W TO WATER METER  
 3. 8.6' N TO CL DRIVEWAY
- POINT NO. 103  
 N: 1,674,447.461, E: 1,662,295.603  
 1/2" REBAR w/CINTROL CAP  
 1. 32' SE TO CORNER OF HOUSE  
 2. 9.00' S TO CENTER 36" COTTONWOOD  
 3. 26.80' N TO HIGH BANK OF CREEK
- POINT NO. 104  
 N: 1,674,416.4070, E: 1,662,144.2520  
 1/2" REBAR w/CINTROL CAP  
 1. 15.50' NE TO CENTER MH  
 2. 54.50' S TO CENTER LIGHT POLE  
 3. 22.00' ENE TO CENTER LIGHT POLE



- LEGEND**
- EXISTING SANITARY SEWER
  - PROPOSED SANITARY SEWER
  - SILT FENCE BARRIER

SANITARY LINE NO. 1					
COORDINATE LIST					
POINT	NORTHING	EASTING	LINE NO.	STATION	DESCRIPTION
6000	1,674,427.7520	1,662,154.8380	1	0+00.0	EXIST. MH
6001	1,674,436.3810	1,662,169.4852	1	0+17.0	MH 1
6002	1,674,467.8728	1,662,307.2736	1	1+58.3	MH 2
6003	1,674,475.0610	1,662,449.8210	1	3+01.0	EXIST. MH

**BENCH MARK LIST**

BM 201 - CHISELED SQUARE ON TOP OF WEST CURB BLUFF COURT AT DRIVE TO 2115 BLUFF COURT.  
 ELEV. = 1312.21 (NAVD88)

THE KANSAS PROFESSIONAL ENGINEERS' AND SURVEYORS' BOARD

**26008**

06/30/2020

KANSAS

PROFESSIONAL ENGINEER

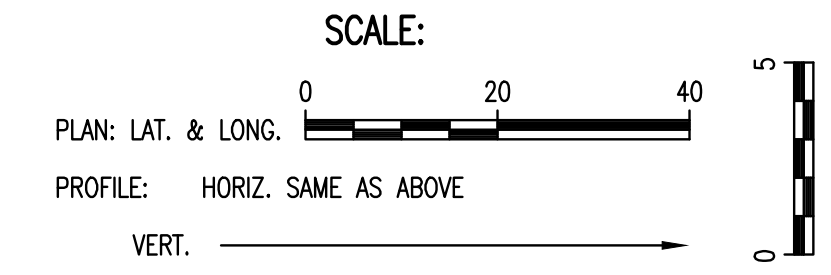
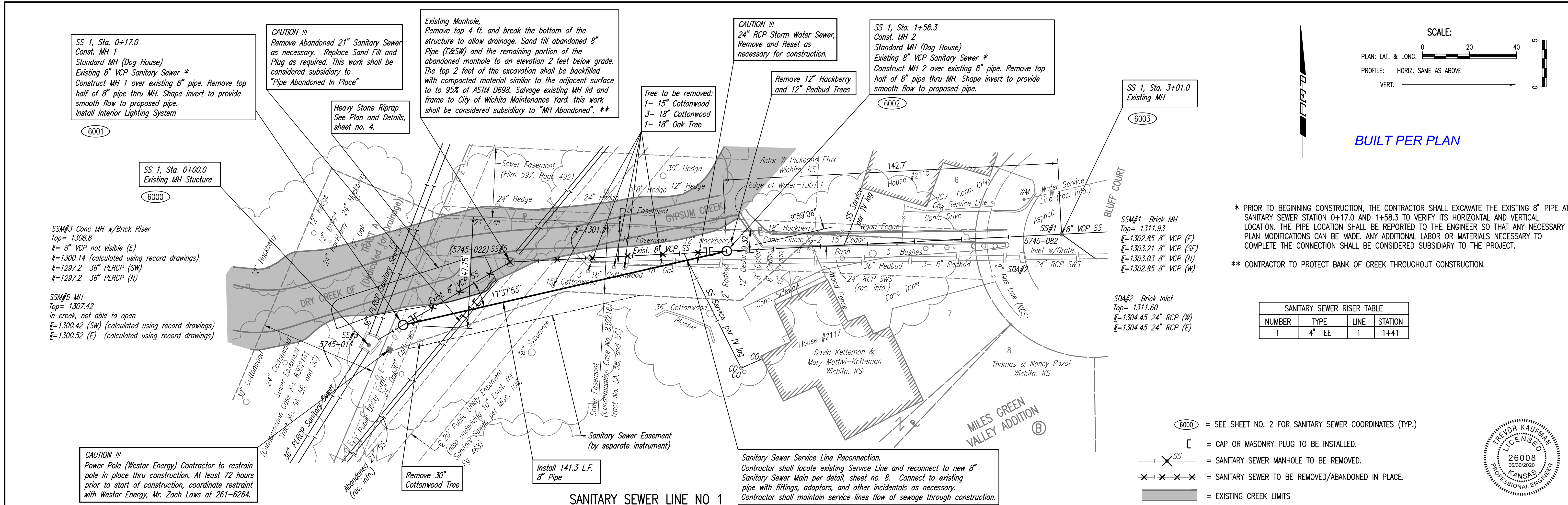
No.	Revision	By	Date
<p><b>SOUTH BLUFF COURT</b>  <b>SANITARY SEWER RELOCATION</b>  <b>BUBBLE MAP, KEY MAP AND GENERAL NOTES</b></p> <p>GARY JANZEN, P.E. - CITY ENGINEER          CITY OF WICHITA PROJECT NO. 468-85295</p> <p><b>PEC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A.          303 SOUTH TOPEKA WICHITA, KS 67202          316-262-2691 www.pec1.com</p>			
Designed by	JAG, TBK	Job No.	35-160132-011
Drawn by	CSL	Date	FEBRUARY 2018

Sht. 2 of 14

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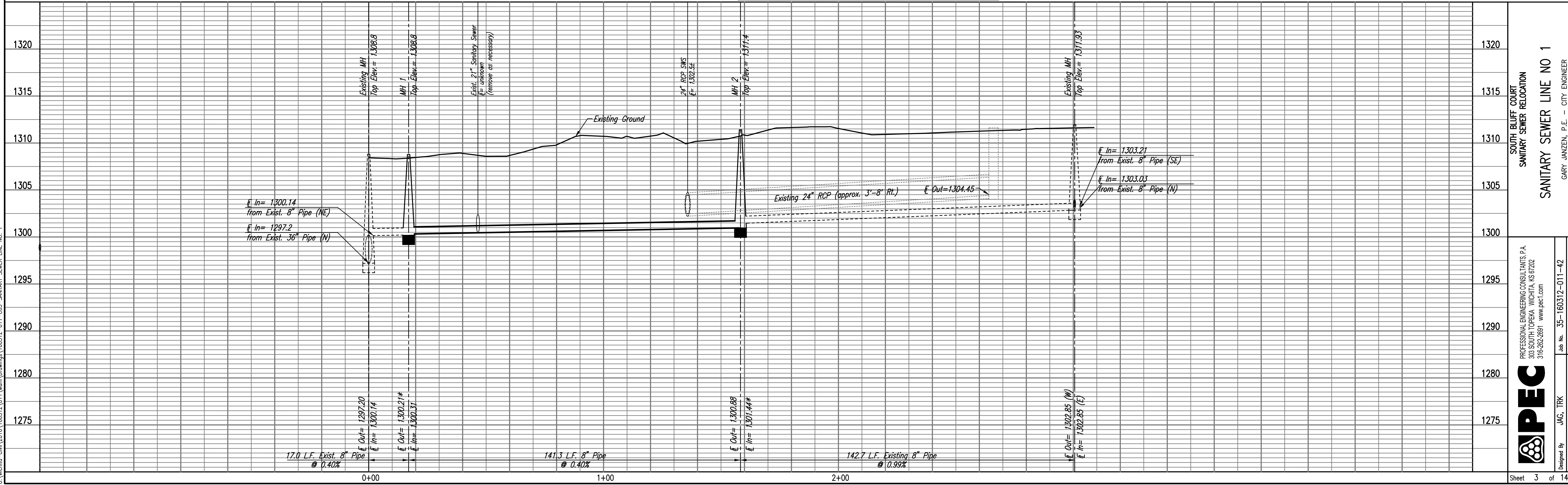
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 U:\Wichita-Civil\2016\160312\011\Wichita-Civil\Drawings\160312-011-003-SANITARY SEWER LINE NO. 1



BUILT PER PLAN

\* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 8" PIPE AT SANITARY SEWER STATION 0+17.0 AND 1+58.3 TO VERIFY ITS HORIZONTAL AND VERTICAL LOCATION. THE PIPE LOCATION SHALL BE REPORTED TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

\*\* CONTRACTOR TO PROTECT BANK OF CREEK THROUGHOUT CONSTRUCTION.



SOUTH BLUFF COURT  
 SANITARY SEWER RELOCATION  
 SANITARY SEWER LINE NO 1  
 GARY JANZEN, P.E. - CITY ENGINEER  
 CITY OF WICHITA PROJECT NO. 468-85295

**PEC**  
 PROFESSIONAL ENGINEERING CONSULTANTS P.A.  
 303 SOUTH TOPEKA WICHITA, KS 67202  
 316-262-2691 www.pec1.com

Job No. 35-160312-011-42  
 Date FEBRUARY 2018

Designed By JAG, TRK  
 Drawn By CSL



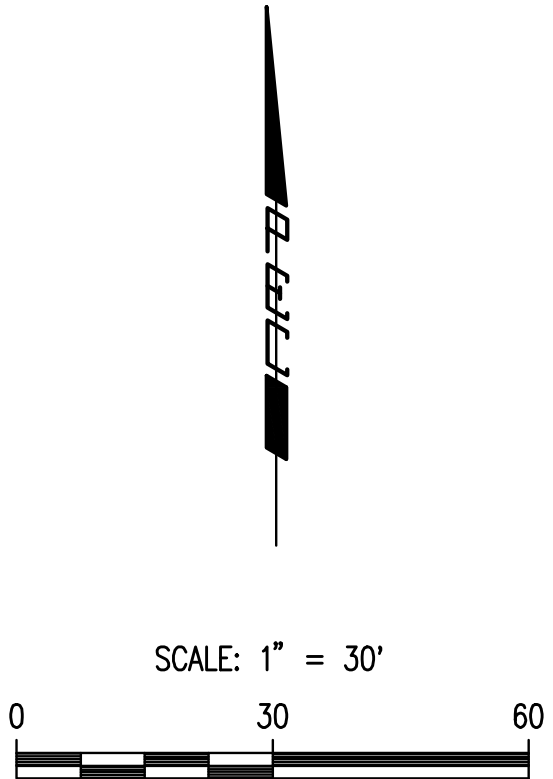
**CAUTION!!!!**  
 Overhead Electric and Electric Pole Guy Wire.  
 If Temporary removal is required, Contractor  
 shall coordinate with Evergy and temporary  
 restrain pole.

Contractor shall provide Curb Protection. If Curb  
 and Gutter is damaged Contractor shall remove  
 and replace in kind. This cost shall be  
 considered subsidiary to "Site Restoration".


Remove and Reset Posts as required.

TEMPORARY CONSTRUCTION  
 EASEMENT (by separate instrument)

- NOTES:
1. CONTRACTOR SHALL REMOVE ALL TREES AND TRIM BRANCHES LOCATED IN THE TEMPORARY CONSTRUCTION EASEMENT AS NECESSARY FOR CONSTRUCTION. THIS COST SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING".
  2. CONTRACTOR SHALL RESTORE PROPERTY TO EXISTING CONDITIONS. ANY RUTTING FROM EQUIPMENT SHALL BE FILLED WITH TOP SOIL. ALL DISTURBED AREAS SHALL BE SODDED TO MATCH EXISTING. THESE COST SHALL BE INCLUDED IN THE BID ITEMS "SODDING" AND "SITE RESTORATION."



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No.	Revision	By	Date
<b>SOUTH BLUFF COURT          SANITARY SEWER RELOCATION          SITE ACCESS PLAN</b>			
GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-85295			
 <b>PEC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	JAG, TBK	Job No.	35-160132-011
Drawn by	CSL	Date	FEBRUARY 2018
			Sht. 5 of 14

