

BAREFOOT BAY BIG SLOUGH CROSSING SANITARY SEWER REPAIR

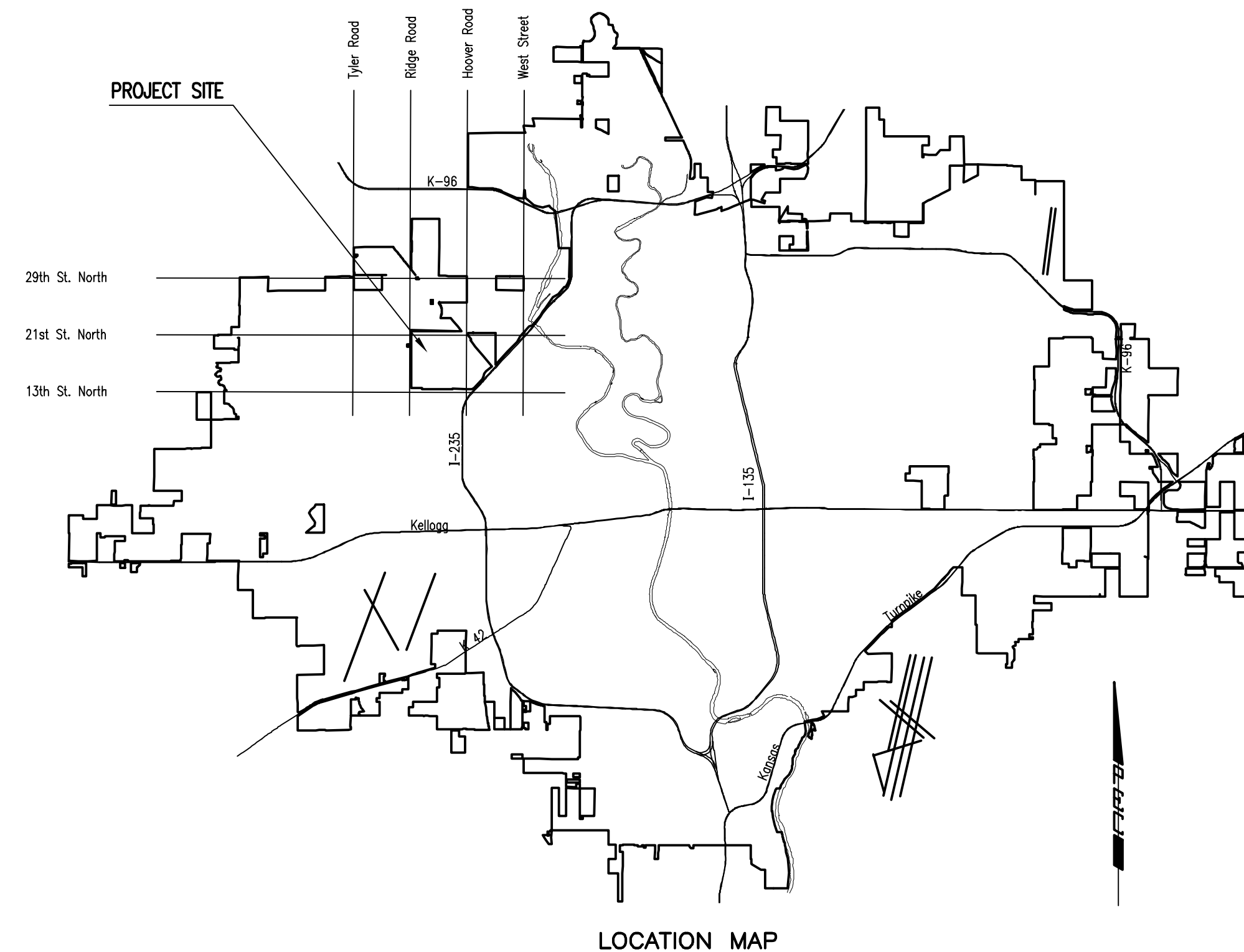
IN
THE CITY OF WICHITA, KANSAS

CITY OF WICHITA PROJECT NO. 468-85382

OCA NO. 628122

GARY JANZEN, P.E. - CITY ENGINEER

Mies Construction - Contractor
B. Woods - City of Wichita, Field Project Engineer
S. Stripling - City of Wichita, Inspector
As-built
Final Acceptance Date: 11/4/2019
Completion Date:
pdf: apr 8/17/2020



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DECEMBER 2018

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS



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 REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
- AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 1-316-687-2470 OR 811 TO REQUEST THE LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA.
- 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
WESTAR ENERGY	800-544-4857
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING 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 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.

SITE GRADING NOTES

- THE CONTRACTOR SHALL STRIP MINIMUM 6" OF EXISTING TOPSOIL ORGANIC/MATERIAL PRIOR TO PLACEMENT OF FILL. CONTRACTOR SHALL PROOF ROLL SUBGRADE AFTER STRIPPING TOPSOIL PRIOR TO PLACEMENT OF FILL. WHERE EXISTING TOPSOIL/ORGANIC MATERIAL EXCEEDS 6", CONTRACTOR SHALL STRIP ADDITIONAL DEPTH AS NEEDED PRIOR TO PLACEMENT OF FILL. CONTRACTOR SHALL APPLY TOPSOIL TO ALL DISTURBED AREAS PRIOR TO SEEDING. THE TOP 6" OF MATERIAL SHALL BE SOIL WHICH IS SUITABLE FOR GROWTH OF VEGETATION.
- ONLY APPROVED MATERIALS SHALL BE USED IN PLACEMENT OF SITE FILL. THIS MATERIAL SHALL BE FREE OF ANY ORGANIC MATTER, LARGE STONES, AND DEBRIS.
- ALL FILL PLACED ONSITE SHALL BE COMPACTED TO 95%. ALL FILL SHALL BE PLACED IN LIFTS AND COMPACTED TO THE DENSITY REQUIREMENTS, EXCEPT TOPSOILING.
- ANY DOUBLE-HANDLING AND/OR STOCKPILING OF EXCAVATED MATERIAL WHICH MAY BE REQUIRED, INCLUDING REMOVAL AND REPLACEMENT OF TOPSOIL, WILL NOT BE MEASURED OR PAID FOR SEPARATELY.

CONTROL POINTS

POINT NO. 101
 N: 1702193.541, E: 1624877.106
 MAG NAIL ON EAST SIDE PRIVATE DR. NEAR NORTH END OF PROJECT
 1. 3.40' E TO E EDGE PRIVATE DR
 2. 21.90' W TO W EDGE PRIVATE DR
 3. 132.80' S TO E FACE LIGHT POLE
 4. 55.20' E TO CENTER SANITARY SEWER MH

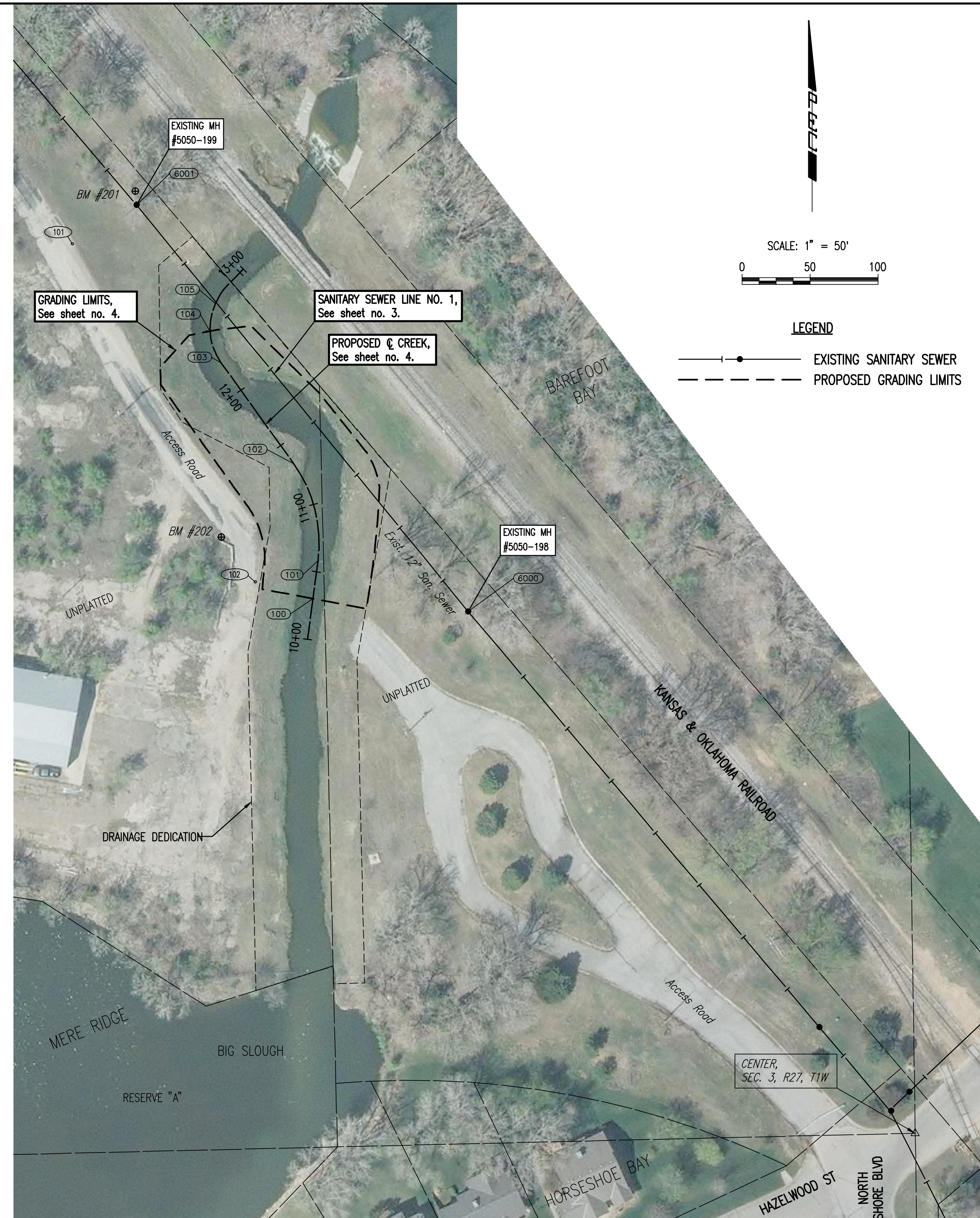
POINT NO. 102
 N: 1701945.026, E: 1625011.633
 MAG NAIL ON EAST SIDE PRIVATE DR. NEAR SOUTH END OF PROJECT
 1. 47.40' SW TO SE CORNER JERSEY BARRIER WALL
 2. 41.50' NW TO NE CORNER JERSEY BARRIER WALL
 3. 2.79' E TO E EDGE ASPHALT RD
 4. 8.20' NE TO CL OF OVERHEAD POWER LINE

- 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, INCLUDING SEEDING, FERTILIZER, AND MULCHING 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.
 CONSTRUCTION ENTRANCE 1 EACH
- 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 THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCHING, AND/OR RE-SEEDING. ALL SEEDING/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 SUBSIDIARY TO "SITE RESTORATION".
- 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 SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED. ALL COSTS FOR TEMPORARY RYE GRASS SEEDING SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION".
- ALL TRENCHING AND BACKFILLING SHALL BE TYPE I.
- THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- WATER FOR EARTHWORK SHALL BE CONSIDERED SUBSIDIARY TO "UNCLASSIFIED EXCAVATION".
- THE OWNER HAS ACQUIRED THE CORPS OF ENGINEERS AND THE KANSAS DEPARTMENT OF AGRICULTURE, DIVISION OF WATER RESOURCES PERMITS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL PERFORM DEWATERING AS REQUIRED FOR CONSTRUCTION. ALL COST FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM "DEWATERING".
- THE CONTRACTOR SHALL PROVIDE TEMPORARY COFFER DAMS AND TEMPORARY CHANNEL FLOW ROUTING AS NECESSARY FOR CONSTRUCTION. A SEQUENCING PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE COST FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

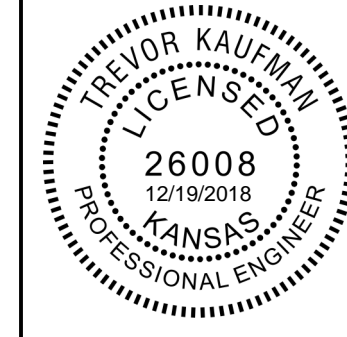
PROPOSED CREEK				
COORDINATE LIST				
POINT	NORTHING	EASTING	STATION	DESCRIPTION
100	1,701,932.8545	1,625,054.1036	10+30.11	AT GRADING LIMITS
101	1,701,960.8364	1,625,057.7780	10+58.33	PC
102	1,702,032.1314	1,625,039.8517	11+33.66	PT
103	1,702,106.4202	1,624,986.4535	12+25.10	PC
104	1,702,129.3488	1,624,978.4241	12+49.77	AT GRADING LIMITS
105	1,702,149.8595	1,624,982.4608	12+70.84	PT

SANITARY SEWER LINE NO. 1				
COORDINATE LIST				
POINT	NORTHING	EASTING	STATION	DESCRIPTION
6000	1,701,923.3690	1,625,168.1970	0+00.00	EXISTING MH #5050-198
6001	1,702,222.2600	1,624,924.3060	3+85.8	EXISTING MH #5050-199

6000 = COORDINATE POINT NO.

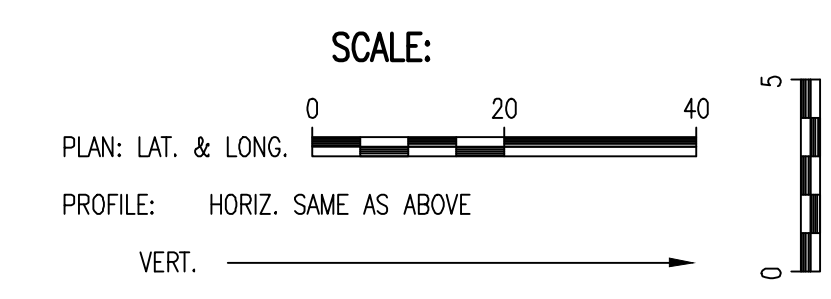


BENCH MARK LIST BM #201
 BM# 201 - SAW CUT SQUARE ON NORTH RIM OF SANITARY SEWER MANHOLE (#199) NEAR NORTH END PROJECT, EAST OF PRIVATE DRIVE. ELEV. = 1325.16 (NAVD88)
 BM# 202 - CHISELED SQUARE CUT ON NORTHEAST CORNER OF NORTH MOST JERSEY BARRIER ON WEST SIDE OF PRIVATE DRIVE, NEAR SOUTH END PROJECT. ELEV. = 1325.16 (NAVD88)

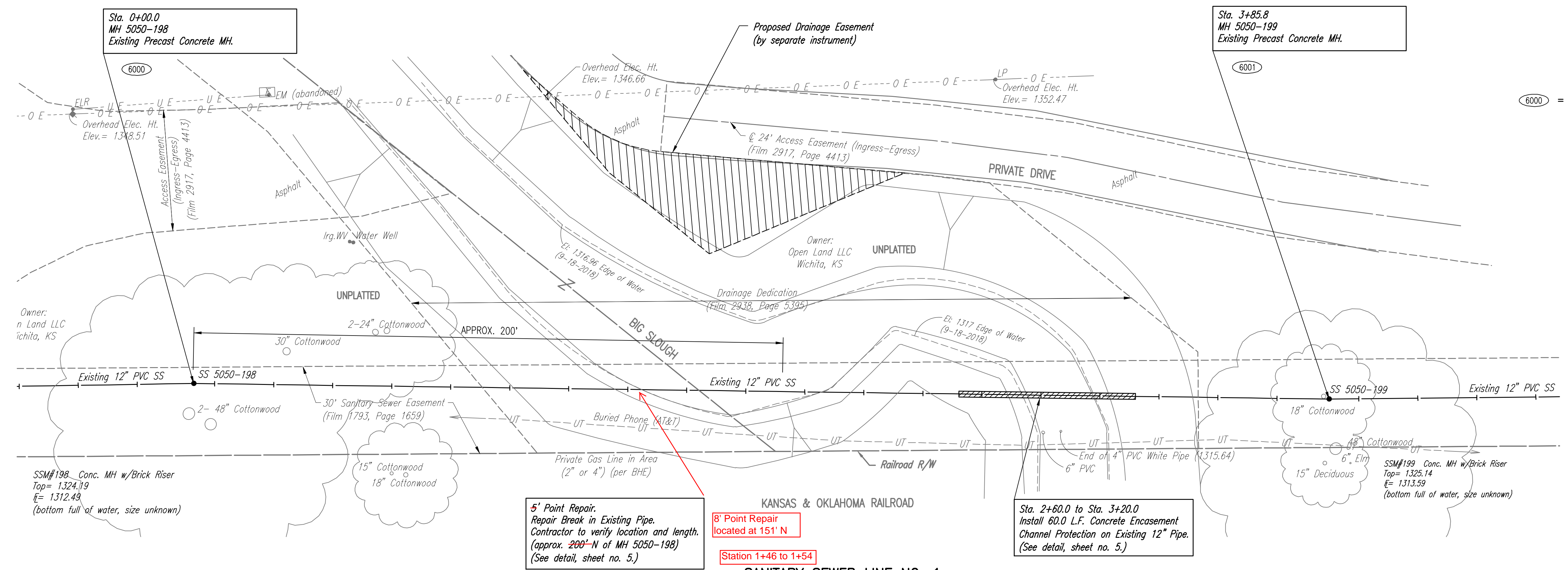


No.	Revision	By	Date
BAREFOOT BAY BIG SLOUGH CROSSING SANITARY SEWER REHABILITATION KEY MAP AND GENERAL NOTES GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-85382 PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2891 www.pec1.com			
Designed by	TBK	Job No.	35-187042-004
Drawn by	CSL, KTD	Date	SEPTEMBER 2018
			Sht. 2 of 10

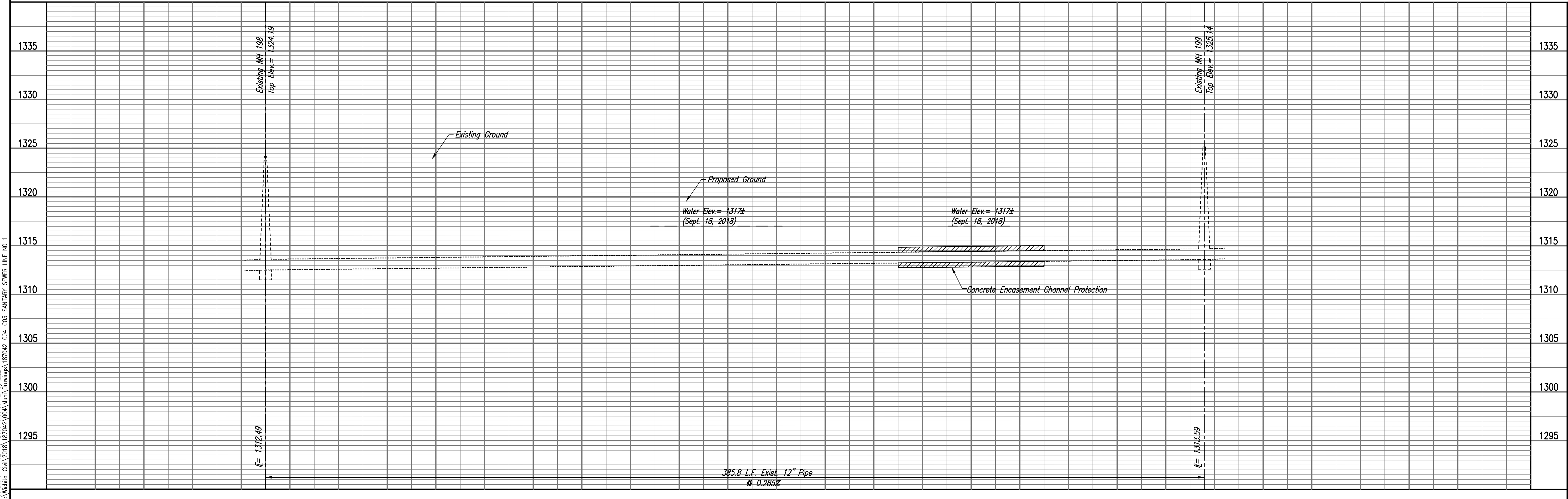
Served 12-18-2018 8:58:16 AM by CSI
 Plot Scale 1:1 12-18-2018 9:00:14 AM by CSI
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6000 = SEE SHEET NO. 2 FOR SANITARY SEWER COORDINATES (TYP.)



SANITARY SEWER LINE NO. 1



Sewed 12-18-2018 8:49:32 AM by CSI
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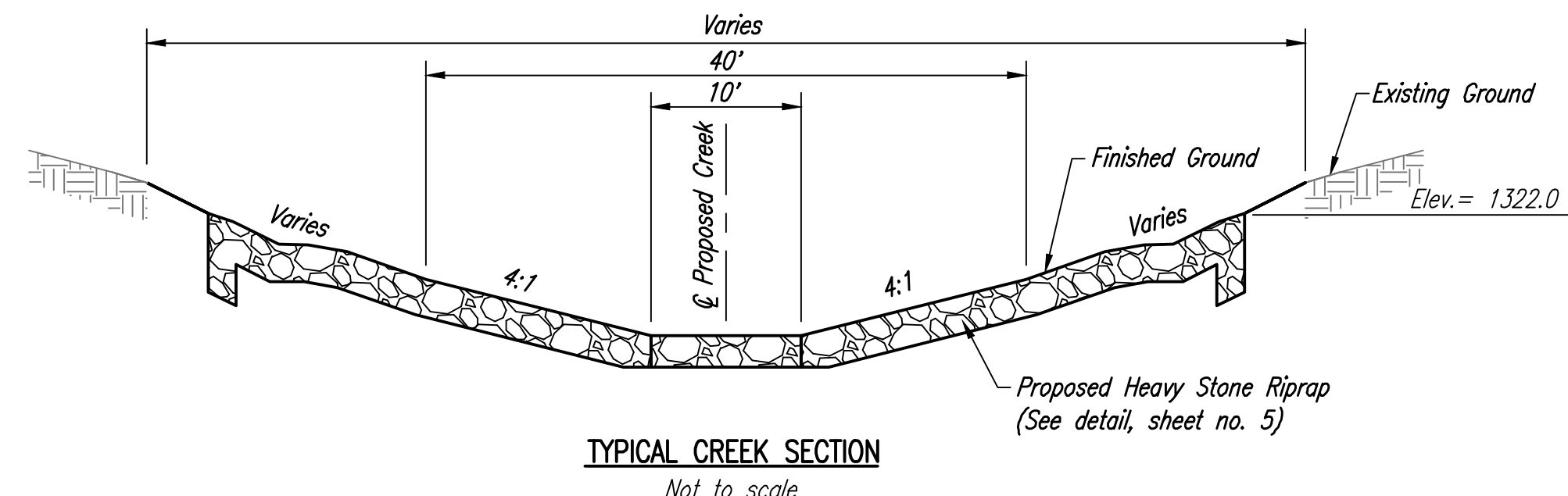
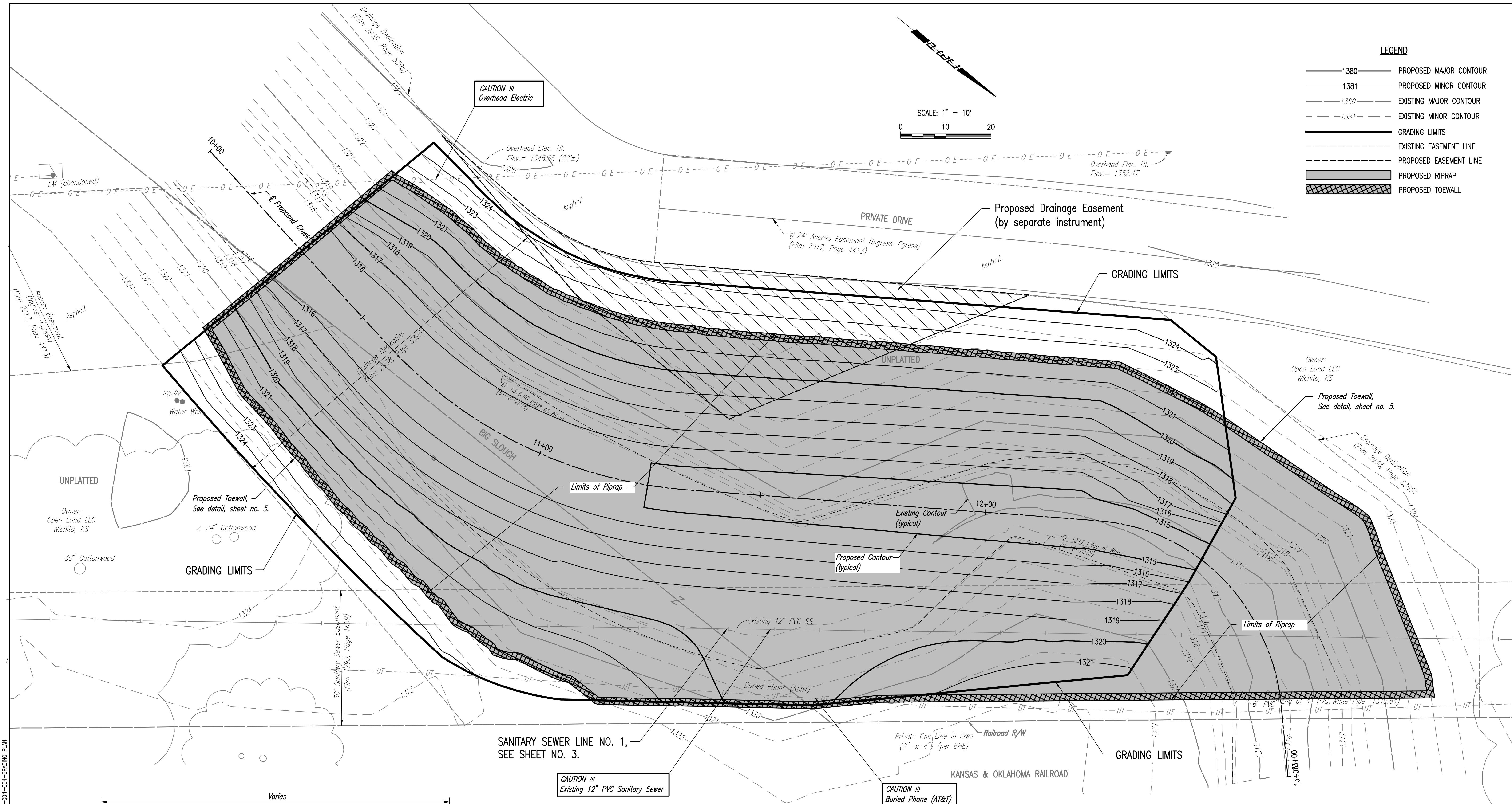
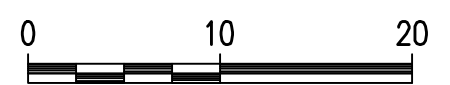
BAREFOOT BAY BIG SLOUGH CROSSING
 SANITARY SEWER REHABILITATION
 SANITARY SEWER LINE NO. 1
 GARY JANZEN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 468-85382

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 308 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2691 www.pec1.com
 Job No. 35-187042-004-042
 Date SEPTEMBER 2018
 Designed By TRK
 Drawn By CSL, KTD

LEGEND

- 1380 — PROPOSED MAJOR CONTOUR
- 1381 — PROPOSED MINOR CONTOUR
- - - 1380 - - - EXISTING MAJOR CONTOUR
- - - 1381 - - - EXISTING MINOR CONTOUR
- GRADING LIMITS
- - - EXISTING EASEMENT LINE
- - - PROPOSED EASEMENT LINE
- ▨ PROPOSED RIPRAP
- ▩ PROPOSED TOEWALL

SCALE: 1" = 10'



SANITARY SEWER LINE NO. 1,
SEE SHEET NO. 3.

CAUTION !!!
Existing 12" PVC Sanitary Sewer

CAUTION !!!
Buried Phone (AT&T)

EARTHWORK SUMMARY (C.Y.)

* 95% COMPACTION IS REQUIRED FOR ALL PLACEMENT.
ESTIMATED EXCESS MATERIAL AT PROJECT COMPLETION=
567 - (335/0.85) = 173 C.Y.
ASSUMED 15% SHRINK/SWELL

No.	Revision	By	Date
BAREFOOT BAY BIG SLOUGH CROSSING SANITARY SEWER REHABILITATION GRADING PLAN GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-85382			
Designed by	TBK	Job No.	35-187042-004
Drawn by	CSL, KTD	Date	SEPTEMBER 2018
			Sht. 4 of 10

Sewer 12-18-2018 8:57:51 AM by CSI
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