

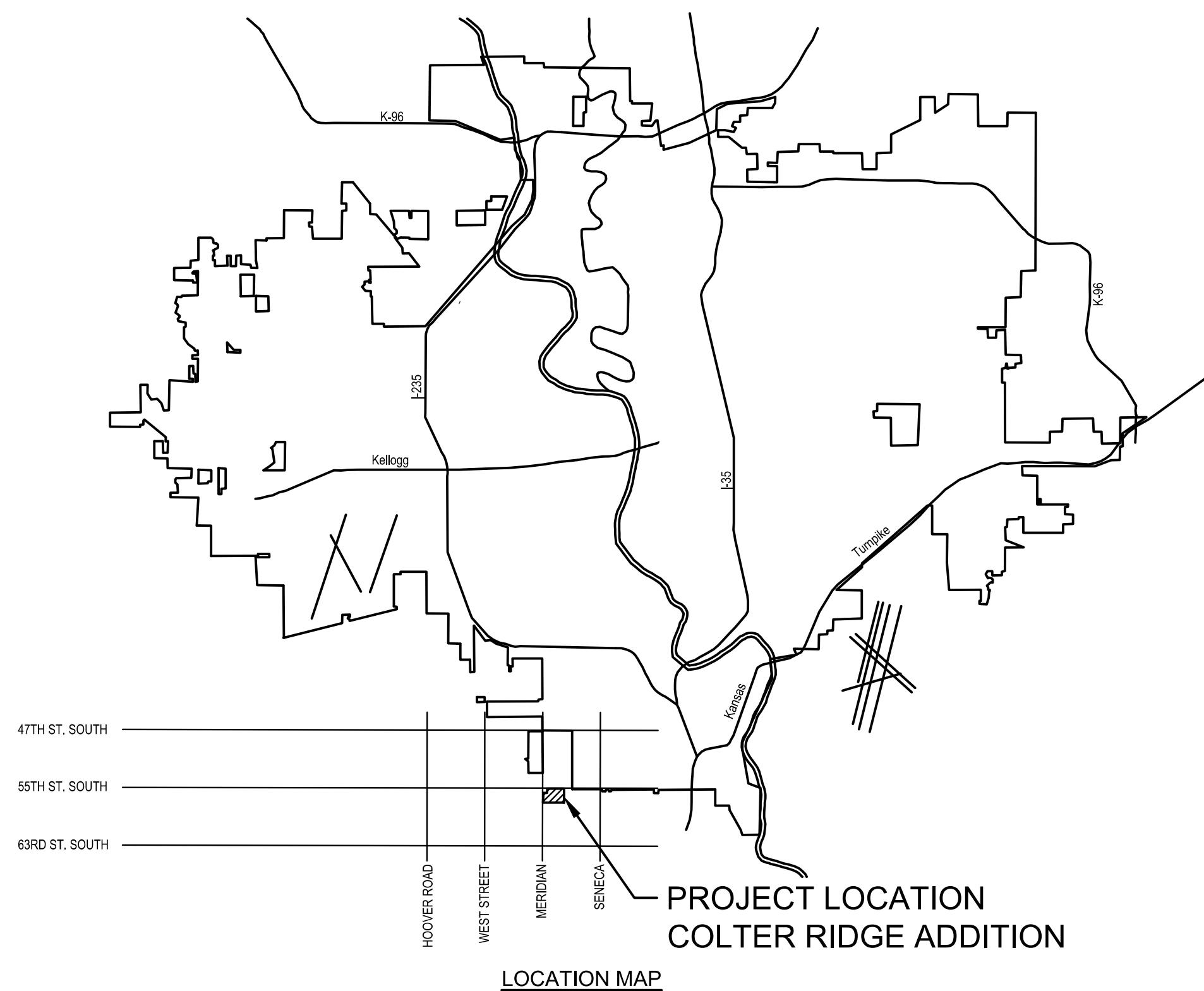
CONSTRUCTION PLANS FOR SANITARY SEWER COLLECTOR IMPROVEMENTS

TO SERVE COLTER RIDGE ADDITION

CITY OF WICHITA ENGINEERING PROJECT NO. 468-2025-032376
ORG CODE: 47277026, MUNIS NO.: E6118

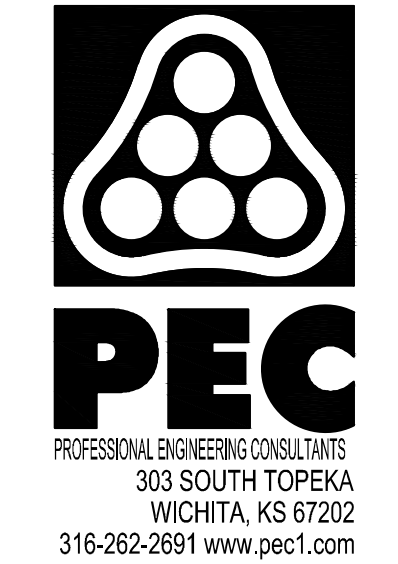
CITY OF WICHITA, KS
PAUL GUNZELMAN, P.E. - CITY ENGINEER

DEVELOPER CONTACT
FISHER WELLS
BRIDGER DEVELOPMENT
4514 COLE AVE STE 800
DALLAS, TX 75205
314-973-0148



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OFFSITE SANITARY SEWER MAIN IMPROVEMENTS TO SERVE
COLTER RIDGE ADDITION
PAUL GUNZELMAN CITY ENGINEER
CITY OF WICHITA PROJECT NO. 468-2025-032376

Issue:		

JOB NO.	240873-004
DATE	MAY 2026
PM	RMM
DESIGNED BY	HJW
DRAWN BY	BJS
CHECKED BY	GAS

TITLE SHEET

01
01 OF 16

SAVED 5/8/2026 3:12:08 PM BY HUNTER WILES
PLOTTED 5/8/2026 4:46:26 PM BY HUNTER WILES
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MAY 2026

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS, UNLESS OTHERWISE INCLUDED IN THE CONTRACT DOCUMENTS.
2. 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.
3. 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 (316)-687-2470 OR 811 TO REQUEST THE LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA.
4. THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
 EMERGENCY DISPATCH: 911
 COX COMMUNICATIONS: 888-249-3530
 EVERGY: 800-383-1183
 AT&T: 800-286-8313
 KANSAS GAS SERVICE: 888-482-4950
5. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF SEVEN (7) DAYS ADVANCE NOTICE PRIOR TO THE START OF CONSTRUCTION.
6. 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.
7. ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCHMARKS AND VERIFY THEIR ACCURACY.
8. 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 ANY BURIED LINES LOCATED 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.
9. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITIES THAT ARE IN POTENTIAL CONFLICT WITH THE PROPOSED IMPROVEMENTS. THE UTILITY LOCATES SHALL BE PERFORMED PRIOR TO THE START OF CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
10. 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 CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
11. EASEMENTS AND RIGHTS-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN ON THE DRAWINGS. IF NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHTS-OF-WAY DESIRED TO USE IN COMPLETING THE WORK.
12. THE CONTRACTOR SHALL CONTAIN THEIR OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT ALL TIMES. THE CONTRACTOR SHALL UTILIZE WARNING SIGNS, FLASHING LIGHTS, BARRICADES, AND FLAGMEN IN COMPLIANCE WITH THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
13. 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, FLOODWAYS, 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.
14. THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES OR SHRUBS WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE, THIS WORK SHALL BE COORDINATED WITH THE ENGINEER. TREE TRIMMING/REMOVAL SHALL BE COMPLETED IN ACCORDANCE WITH U.S FISH AND WILDLIFE SERVICE, AND KANSAS DEPARTMENT OF WILDLIFE, PARKS, AND TOURISM RESTRICTIONS.
15. 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, LANDSCAPING, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
16. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
17. THE CONTRACTOR SHALL NOT BURY MANHOLES OR CLEANOUTS THAT HAVE TOP ELEVATIONS WHICH ARE LOWER THAN EXISTING GROUND. THE GROUND AROUND SUCH MANHOLES AND CLEANOUTS AND ALONG THE SEWER ALIGNMENT SHALL BE BACKFILLED TO THE APPROXIMATE ELEVATION OF THE PROPOSED GROUND ELEVATION SHOWN ON THE PLAN/PROFILE SHEETS. THE CONTRACTOR SHALL PROVIDE DRAINAGE AWAY FROM THESE MANHOLES OR CLEANOUTS AND SEWER LINES BY CONSTRUCTION OF TEMPORARY DITCHES OR SLOPING THE GROUND AS REQUIRED.
18. THE CONTRACTOR SHALL PROVIDE MOUNDED EARTH AT MANHOLES AND CLEANOUTS THAT HAVE TOP ELEVATIONS GREATER THAN 1 FOOT ABOVE FINISHED GRADE, AS SHOWN ON THE DRAWINGS.
19. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
20. 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.
21. THE CONTRACTOR SHALL PREVENT ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION.
22. CONTRACTOR SHALL NOT DIVERT ANY SEWAGE FLOW THROUGH NEW PIPE OR MANHOLES UNTIL TESTING HAS BEEN COMPLETED AND ACCEPTED.
23. CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS A MINIMUM OF 200 FT. AHEAD OF THE EXCAVATION FOR OPEN CUT. CONTRACTOR TO NOTIFY INSPECTOR AND ENGINEER OF ANY CONFLICTS.
24. THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE EROSION CONTROL PLAN. 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 QUANTITIES ARE ESTIMATED, AND SHOULD BE CONSIDERED THE MINIMUM EFFORT REQUIRED.
25. 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.
26. RECONSTRUCTION OF EROSION CONTROL MEASURES WHICH ARE DESTROYED BY WIND, FLOOD, FIRE, OR BY THE ACTIONS OF THE CONTRACTOR OR OTHERS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST. WHERE ADJUSTMENTS IN QUANTITIES ARE REQUIRED BY FIELD CONDITIONS, THERE SHALL BE NO ADJUSTMENT IN UNIT PRICE.
27. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH PERMANENT FESCUE GRASS. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.

 KANSAS PREMIUM FESCUE BLEND; 8#/1000 SQ. FT.
 RYE GRASS (PLS); 3#/1000 SQ. FT. AND
 FERTILIZER -- 12-24-12 RATIO AT 45 LBS./AC.
 MULCH -- 2 TONS PRAIRIE HAY / ACRE
28. OWNER (CITY OF WICHITA) SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING. STAKING AND BENCHMARKS DESTROYED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
29. WHERE INDICATED IN THE DRAWINGS, THE SANITARY SEWER EXCAVATION SHALL BE SAND FILLED AND FLUSHED (JETTED AND VIBRATED) WITH WATER PER THE REQUIREMENTS LISTED IN THE STANDARD SPECIFICATIONS FOR THE CITY OF WICHITA, UNLESS FLOWABLE FILL OR OTHER IMPROVED BACKFILL MATERIAL IS OTHERWISE SPECIFIED. ALL COSTS FOR SAND FILLING AND FLUSHING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SAND BACKFILL.
30. MAINTAIN A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER LINES (MANS, SERVICES, AND FIRE HYDRANTS) AND ALL SANITARY SEWER LINES (MANS, SERVICES, AND MANHOLES). ALL SEPARATIONS DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
31. MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAIN AND SERVICES) AND ALL GRAVITY SANITARY SEWER LINES (MANS, SERVICES, AND MANHOLES) AT CROSSINGS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
32. MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MANS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MANS AND SERVICES) AT CROSSINGS. WATERLINES MUST ALWAYS BE PLACED ABOVE PRESSURIZED SANITARY SEWER LINES WHERE THEY CROSS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.

UTILITY CONTACTS

JEFF CROSBY WICHITA SANITARY SEWER 7TH FLOOR - CITY HALL 455 N. MAIN WICHITA, KS 67202 316-268-4329	ADAM KNOLLA KANSAS GAS SERVICE 1021 E. 26TH ST. NORTH WICHITA, KS 67219 316-832-3123
SCOTT MACEY WICHITA WATER 7TH FLOOR - CITY HALL 455 N. MAIN WICHITA, KS 67202 316-268-4334	RAY ORTEGA & CHRIS KELLY BLACK HILLS ENERGY 2330 N. HOOVER ROAD WICHITA, KS 67205 RAY ORTEGA 702-540-3005 CHRIS KELLY 316-554-6300
KEVIN YALE WICHITA STORM SEWER 8TH FLOOR - CITY HALL 455 N. MAIN WICHITA, KS 67202 316-268-4307	ROBERT CLOVER KPC PIPELINE, LLC OFFICE: 913-254-6411 CELL: 913-522-7501
MARC HENDERSON COX COMMUNICATIONS ENGINEERING DEPARTMENT 901 GEORGE WASHINGTON BLVD. WICHITA, KS 67211 316-260-7745	ROBERT MCKENZIE PHILLIPS 66 OFFICE: 316-821-2260 CELL: 405-213-4027
RICHARD AITKEN EVERGY 1900 E. CENTRAL (3RD FLOOR) P.O. BOX 208 WICHITA, KS 67201 316-261-6334	
JASON EDWARDS AT&T WICHITA CENTRAL UNIT 154 N. BROADWAY, ROOM 210 WICHITA, KS 67202 316-268-2008	

TRAFFIC CONTROL

1. THE CONTRACTOR SHALL PROVIDE A DETAILED CONSTRUCTION SEQUENCING, TRAFFIC CONTROL PLAN, AND DETOUR ROUTE FOR ENGINEER/CITY/COUNTY REVIEW AND APPROVAL PRIOR TO ROAD CLOSURE. THE RECOMMENDED DETOUR ROUTE IS 47TH STREET.
2. THE CONTRACTOR SHALL SUPPLY, INSTALL, AND MAINTAIN CONSTRUCTION TRAFFIC CONTROL AS NECESSARY TO PROTECT THE TRAVELING PUBLIC. TRAFFIC CONTROL FOR CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS (LATEST EDITION). ALL DEVICES SHALL BE REFLECTORIZED. ADDITIONAL SIGNS, BARRICADES, AND ANY OTHER TRAFFIC CONTROL DEVICES NOT SHOWN ON THE PLANS WHICH MAY BE DEEMED NECESSARY BY THE ENGINEER FOR TRAFFIC CONTROL DURING CONSTRUCTION WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE SUBSIDIARY TO THE CONTRACT LUMP SUM PRICE BID FOR "TRAFFIC CONTROL". ALL WORK ASSOCIATED WITH TRAFFIC CONTROL AND PROPERTY ACCESS SHALL BE INCLUDED IN THE LUMP SUM BID ITEM "TRAFFIC CONTROL".
3. MESSAGE BOARDS MUST BE INSTALLED ONE WEEK IN ADVANCE.
4. BARRICADES TO BE USED NEAR ARTERIAL INTERSECTIONS.
5. LOCAL ACCESS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
6. CONTRACTOR SHALL COORDINATE CLOSURE OF 55TH STREET FOR INSTALLATION OF PROPOSED SANITARY SEWER LINE W/ B.J. KNUDSON, EXECUTIVE DIRECTOR OF OPERATIONS OF CAMPUS HIGH SCHOOL & RUTH CLARK ELEMENTARY SCHOOL TO LIMIT DISRUPTION OF ACCESS.



OFFSITE SANITARY SEWER MAIN IMPROVEMENTS TO SERVE COLTER RIDGE ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 468-2025-032376

Issue:	

JOB NO.	240873-004
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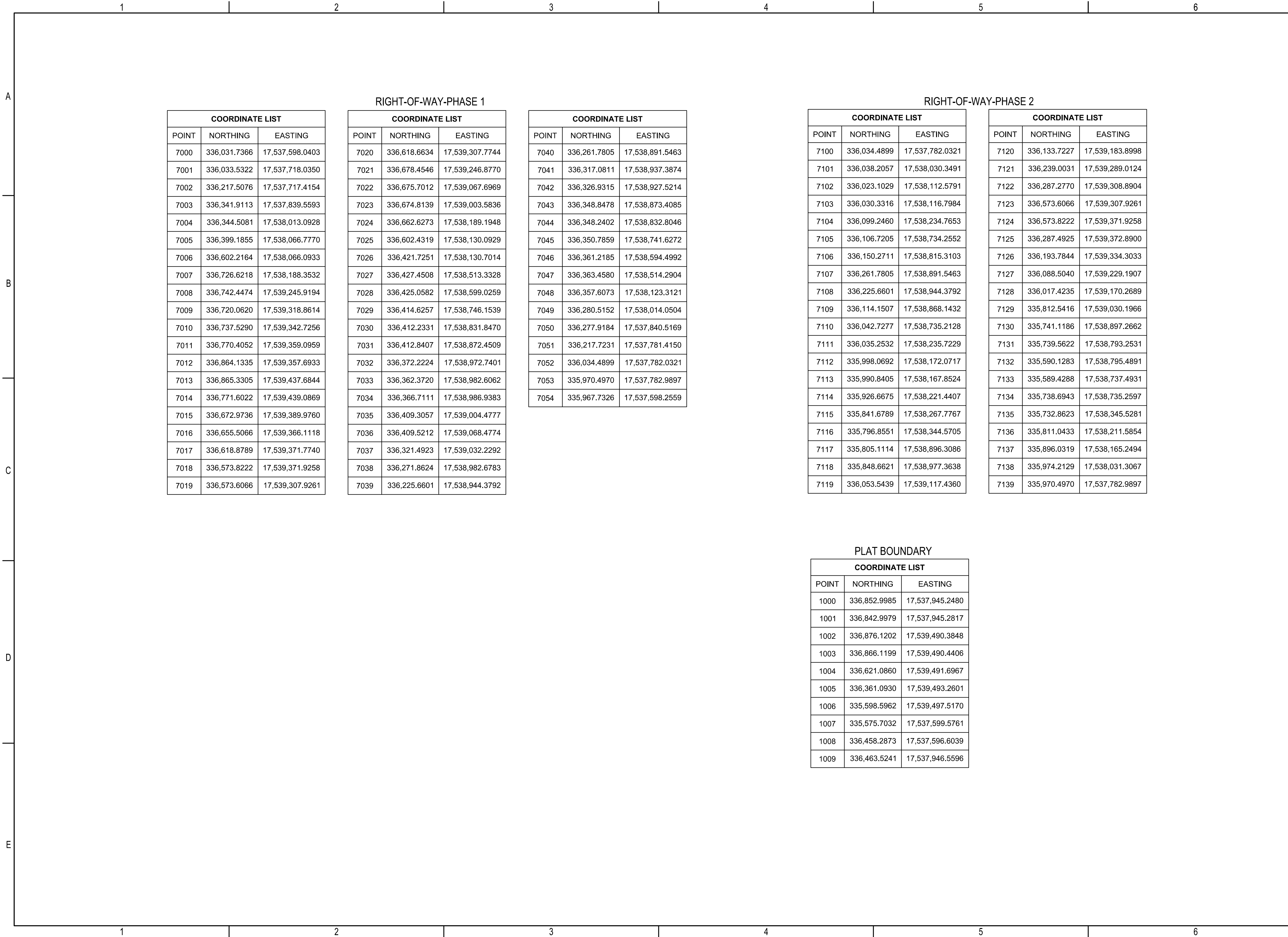
GENERAL NOTES

02

02 OF 16

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 PLOTTED 5/8/2026 4:46:34 PM BY HUNTER,WILES
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 GENERAL NOTES.DWG

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 BUBBLE MAP.DWG



COORDINATE LIST		
POINT	NORTHING	EASTING
7000	336,031.7366	17,537,598.0403
7001	336,033.5322	17,537,718.0350
7002	336,217.5076	17,537,717.4154
7003	336,341.9113	17,537,839.5593
7004	336,344.5081	17,538,013.0928
7005	336,399.1855	17,538,066.7770
7006	336,602.2164	17,538,066.0933
7007	336,726.6218	17,538,188.3532
7008	336,742.4474	17,539,245.9194
7009	336,720.0620	17,539,318.8614
7010	336,737.5290	17,539,342.7256
7011	336,770.4052	17,539,359.0959
7012	336,864.1335	17,539,357.6933
7013	336,865.3305	17,539,437.6844
7014	336,771.6022	17,539,439.0869
7015	336,672.9736	17,539,389.9760
7016	336,655.5066	17,539,366.1118
7017	336,618.8789	17,539,371.7740
7018	336,573.8222	17,539,371.9258
7019	336,573.6066	17,539,307.9261

COORDINATE LIST		
POINT	NORTHING	EASTING
7020	336,618.6634	17,539,307.7744
7021	336,678.4546	17,539,246.8770
7022	336,675.7012	17,539,067.6969
7023	336,674.8139	17,539,003.5836
7024	336,662.6273	17,538,189.1948
7025	336,602.4319	17,538,130.0929
7026	336,421.7251	17,538,130.7014
7027	336,427.4508	17,538,513.3328
7028	336,425.0582	17,538,599.0259
7029	336,414.6257	17,538,746.1539
7030	336,412.2331	17,538,831.8470
7031	336,412.8407	17,538,872.4509
7032	336,372.2224	17,538,972.7401
7033	336,362.3720	17,538,982.6062
7034	336,366.7111	17,538,986.9383
7035	336,409.3057	17,539,004.4777
7036	336,409.5212	17,539,068.4774
7037	336,321.4923	17,539,032.2292
7038	336,271.8624	17,538,982.6783
7039	336,225.6601	17,538,944.3792

COORDINATE LIST		
POINT	NORTHING	EASTING
7040	336,261.7805	17,538,891.5463
7041	336,317.0811	17,538,937.3874
7042	336,326.9315	17,538,927.5214
7043	336,348.8478	17,538,873.4085
7044	336,348.2402	17,538,832.8046
7045	336,350.7859	17,538,741.6272
7046	336,361.2185	17,538,594.4992
7047	336,363.4580	17,538,514.2904
7048	336,357.6073	17,538,123.3121
7049	336,280.5152	17,538,014.0504
7050	336,277.9184	17,537,840.5169
7051	336,217.7231	17,537,781.4150
7052	336,034.4899	17,537,782.0321
7053	335,970.4970	17,537,782.9897
7054	335,967.7326	17,537,598.2559

COORDINATE LIST		
POINT	NORTHING	EASTING
7100	336,034.4899	17,537,782.0321
7101	336,038.2057	17,538,030.3491
7102	336,023.1029	17,538,112.5791
7103	336,030.3316	17,538,116.7984
7104	336,099.2460	17,538,234.7653
7105	336,106.7205	17,538,734.2552
7106	336,150.2711	17,538,815.3103
7107	336,261.7805	17,538,891.5463
7108	336,225.6601	17,538,944.3792
7109	336,114.1507	17,538,868.1432
7110	336,042.7277	17,538,735.2128
7111	336,035.2532	17,538,235.7229
7112	335,998.0692	17,538,172.0717
7113	335,990.8405	17,538,167.8524
7114	335,926.6675	17,538,221.4407
7115	335,841.6789	17,538,267.7767
7116	335,796.8551	17,538,344.5705
7117	335,805.1114	17,538,896.3086
7118	335,848.6621	17,538,977.3638
7119	336,053.5439	17,539,117.4360

COORDINATE LIST		
POINT	NORTHING	EASTING
7120	336,133.7227	17,539,183.8998
7121	336,239.0031	17,539,289.0124
7122	336,287.2770	17,539,308.8904
7123	336,573.6066	17,539,307.9261
7124	336,573.8222	17,539,371.9258
7125	336,287.4925	17,539,372.8900
7126	336,193.7844	17,539,334.3033
7127	336,088.5040	17,539,229.1907
7128	336,017.4235	17,539,170.2689
7129	335,812.5416	17,539,030.1966
7130	335,741.1186	17,538,897.2662
7131	335,739.5622	17,538,793.2531
7132	335,590.1283	17,538,795.4891
7133	335,589.4288	17,538,737.4931
7134	335,738.6943	17,538,735.2597
7135	335,732.8623	17,538,345.5281
7136	335,811.0433	17,538,211.5854
7137	335,896.0319	17,538,165.2494
7138	335,974.2129	17,538,031.3067
7139	335,970.4970	17,537,782.9897

PLAT BOUNDARY		
COORDINATE LIST		
POINT	NORTHING	EASTING
1000	336,852.9985	17,537,945.2480
1001	336,842.9979	17,537,945.2817
1002	336,876.1202	17,539,490.3848
1003	336,866.1199	17,539,490.4406
1004	336,621.0860	17,539,491.6967
1005	336,361.0930	17,539,493.2601
1006	335,598.5962	17,539,497.5170
1007	335,575.7032	17,537,599.5761
1008	336,458.2873	17,537,596.6039
1009	336,463.5241	17,537,946.5596



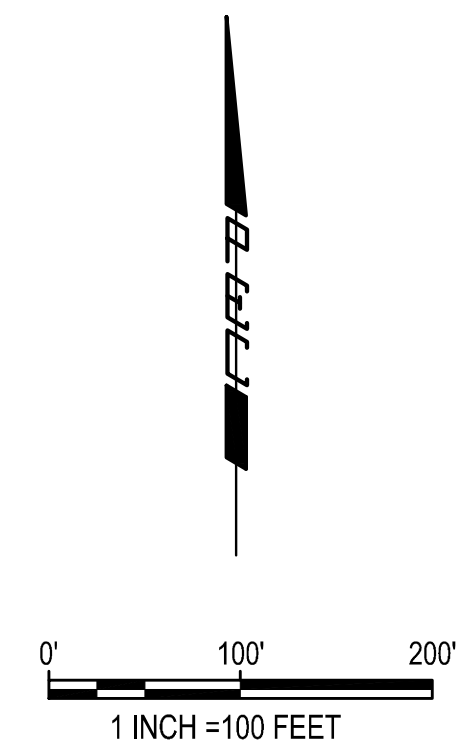
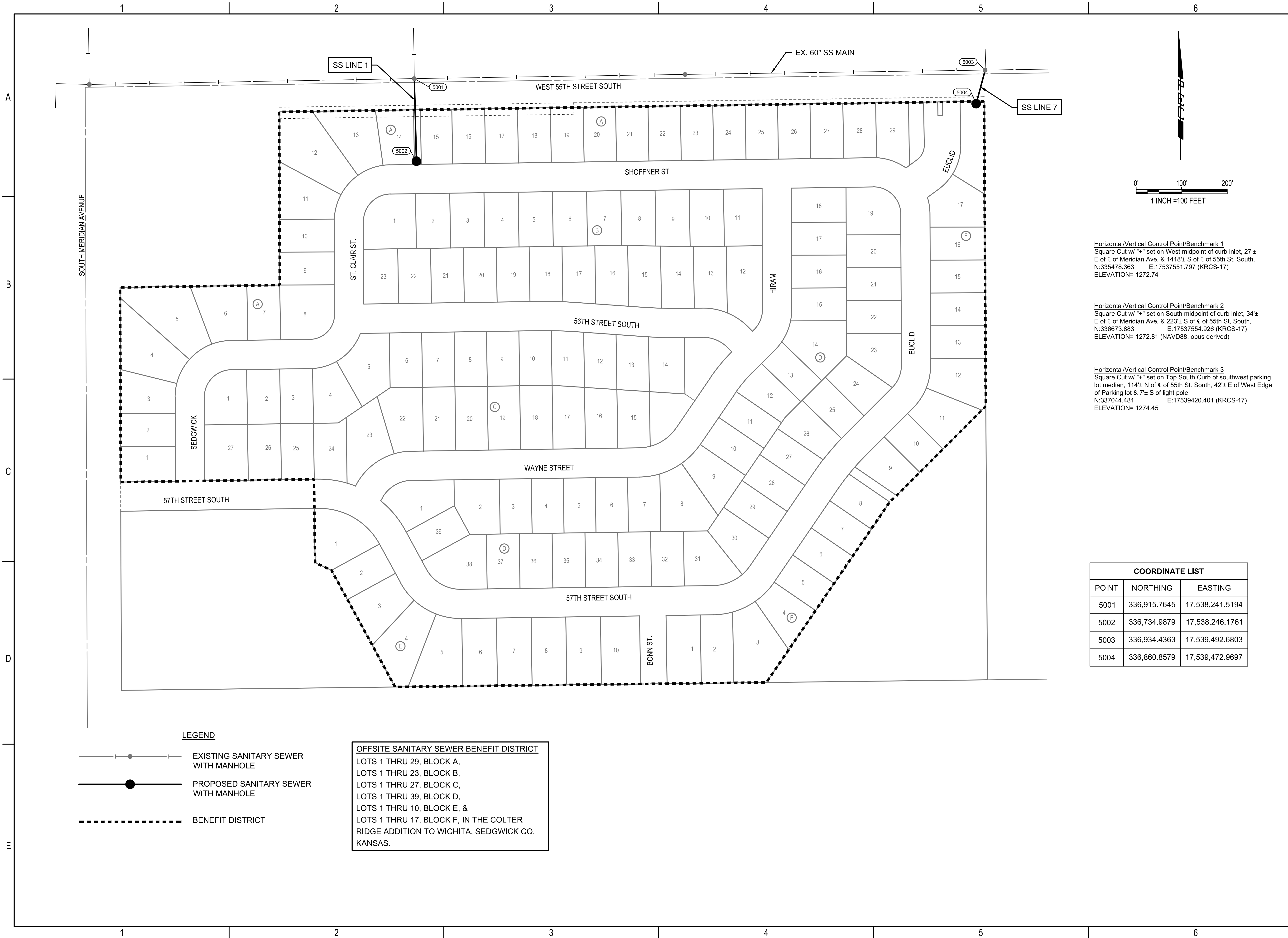
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PLAT BUBBLE MAP TABLES

SAVED 5/8/2026 1:54:19 PM BY HUNTER WILES
 PLOTTED 5/8/2026 4:46:57 PM BY HUNTER WILES
 \\PEC1\COMPECF\WICHITA-CIVIL\2024\240873\001\2PD4_PLANS\030\DRAWINGS\OFFSITE SS\240873-004-05
 OFFSITE SS KEY MAP AND BUBBLE MAP.DWG



Horizontal/Vertical Control Point/Benchmark 1
 Square Cut w/ "++" set on West midpoint of curb inlet, 27'±
 E of ½ of Meridian Ave. & 1418'± S of ½ of 55th St. South.
 N:335478.363 E:17537551.797 (KRCS-17)
 ELEVATION= 1272.74

Horizontal/Vertical Control Point/Benchmark 2
 Square Cut w/ "++" set on South midpoint of curb inlet, 34'±
 E of ½ of Meridian Ave. & 223'± S of ½ of 55th St. South.
 N:336673.883 E:17537554.926 (KRCS-17)
 ELEVATION= 1272.81 (NAVD88, opus derived)

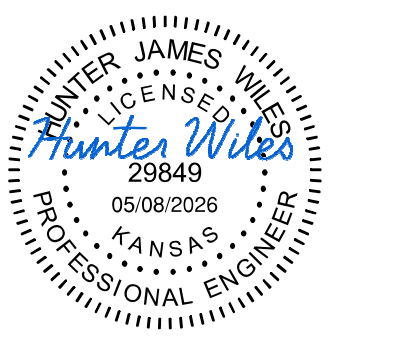
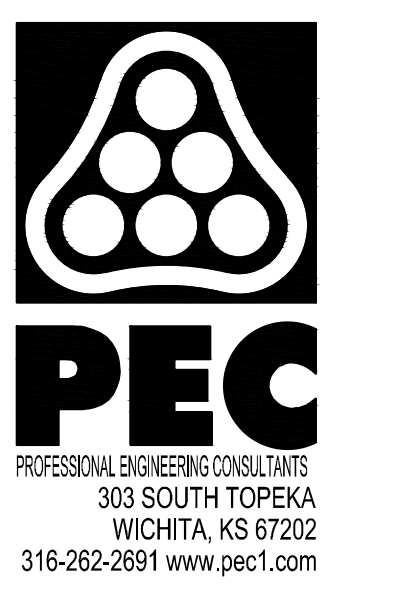
Horizontal/Vertical Control Point/Benchmark 3
 Square Cut w/ "++" set on Top South Curb of southwest parking
 lot median, 114'± N of ½ of 55th St. South, 42'± E of West Edge
 of Parking lot & 7'± S of light pole.
 N:337044.481 E:17539420.401 (KRCS-17)
 ELEVATION= 1274.45

COORDINATE LIST		
POINT	NORTHING	EASTING
5001	336,915.7645	17,538,241.5194
5002	336,734.9879	17,538,246.1761
5003	336,934.4363	17,539,492.6803
5004	336,860.8579	17,539,472.9697

LEGEND

- EXISTING SANITARY SEWER WITH MANHOLE
- PROPOSED SANITARY SEWER WITH MANHOLE
- BENEFIT DISTRICT

OFFSITE SANITARY SEWER BENEFIT DISTRICT
 LOTS 1 THRU 29, BLOCK A,
 LOTS 1 THRU 23, BLOCK B,
 LOTS 1 THRU 27, BLOCK C,
 LOTS 1 THRU 39, BLOCK D,
 LOTS 1 THRU 10, BLOCK E, &
 LOTS 1 THRU 17, BLOCK F, IN THE COLTER
 RIDGE ADDITION TO WICHITA, SEDGWICK CO,
 KANSAS.



OFFSITE SANITARY SEWER MAIN
 IMPROVEMENTS TO SERVE

COLTER RIDGE ADDITION

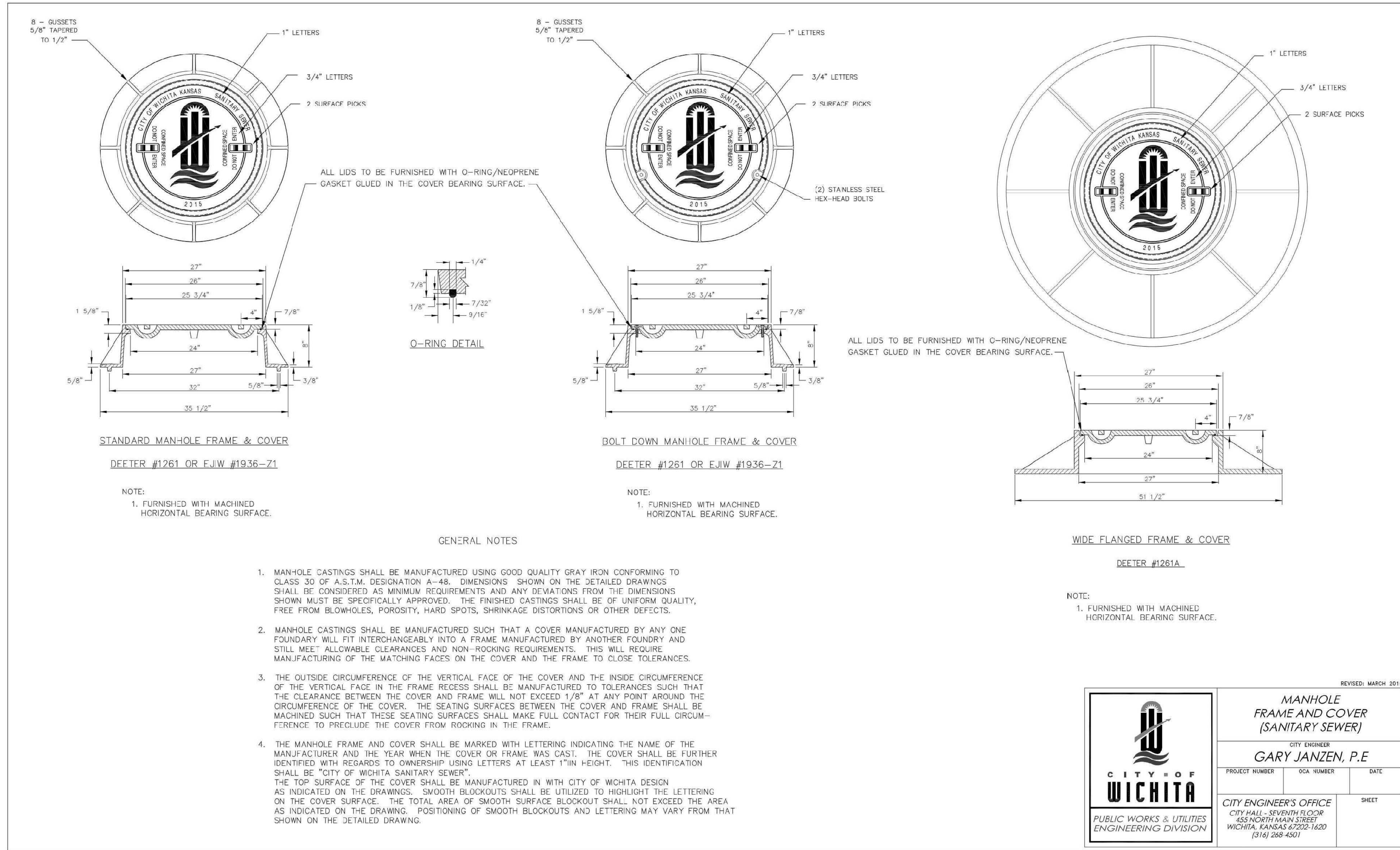
PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 468-2025-032376

Issue:	

JOB NO.	240873-004
DATE	MAY 2026
PM	RMM
DESIGNED BY	HJW
DRAWN BY	BJS
CHECKED BY	GAS

SS KEY MAP AND BUBBLE MAP

SAVED 8/19/2025 9:41:16 AM BY JUSTIN.LOHMANN
 PLOTTED 5/8/2026 4:48:02 PM BY HUNTER WILES
 \\PEC1.COM\PECFW\WICHITA-CIVIL\2024\240673\001\2PD4_PLANS\030\DRAWINGS\OFFSITE SS\240673-004-09
 MANHOLE FRAME AND COVER.DWG



STANDARD MAN-HOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-Z1

NOTE:
 1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

BOLT DOWN MANHOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-Z1

NOTE:
 1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

WIDE FLANGED FRAME & COVER

DEETER #1261A

NOTE:
 1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

GENERAL NOTES

- MAN-HOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
- MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
- THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SEATING SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
- THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SANITARY SEWER". THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN WITH CITY OF WICHITA DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

SS-102

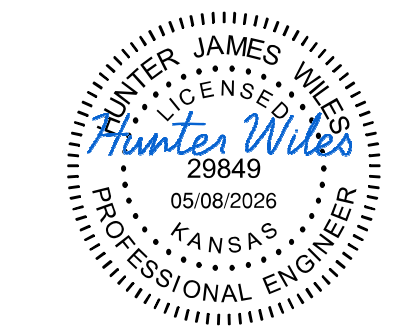
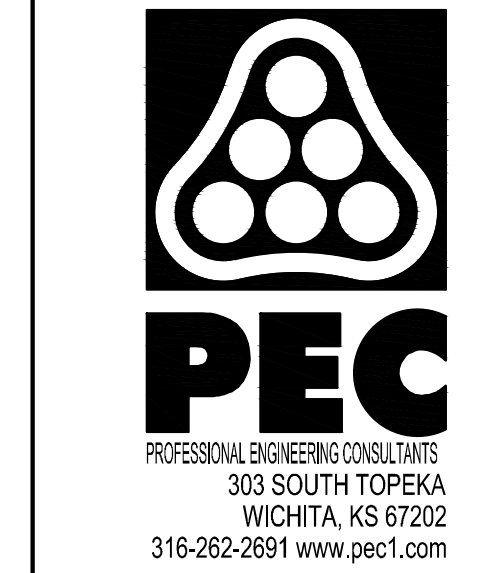


MANHOLE FRAME AND COVER (SANITARY SEWER)

CITY ENGINEER GARY JANZEN, P.E.

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

REVISED: MARCH 2016



OFFSITE SANITARY SEWER MAIN IMPROVEMENTS TO SERVE

COLTER RIDGE ADDITION

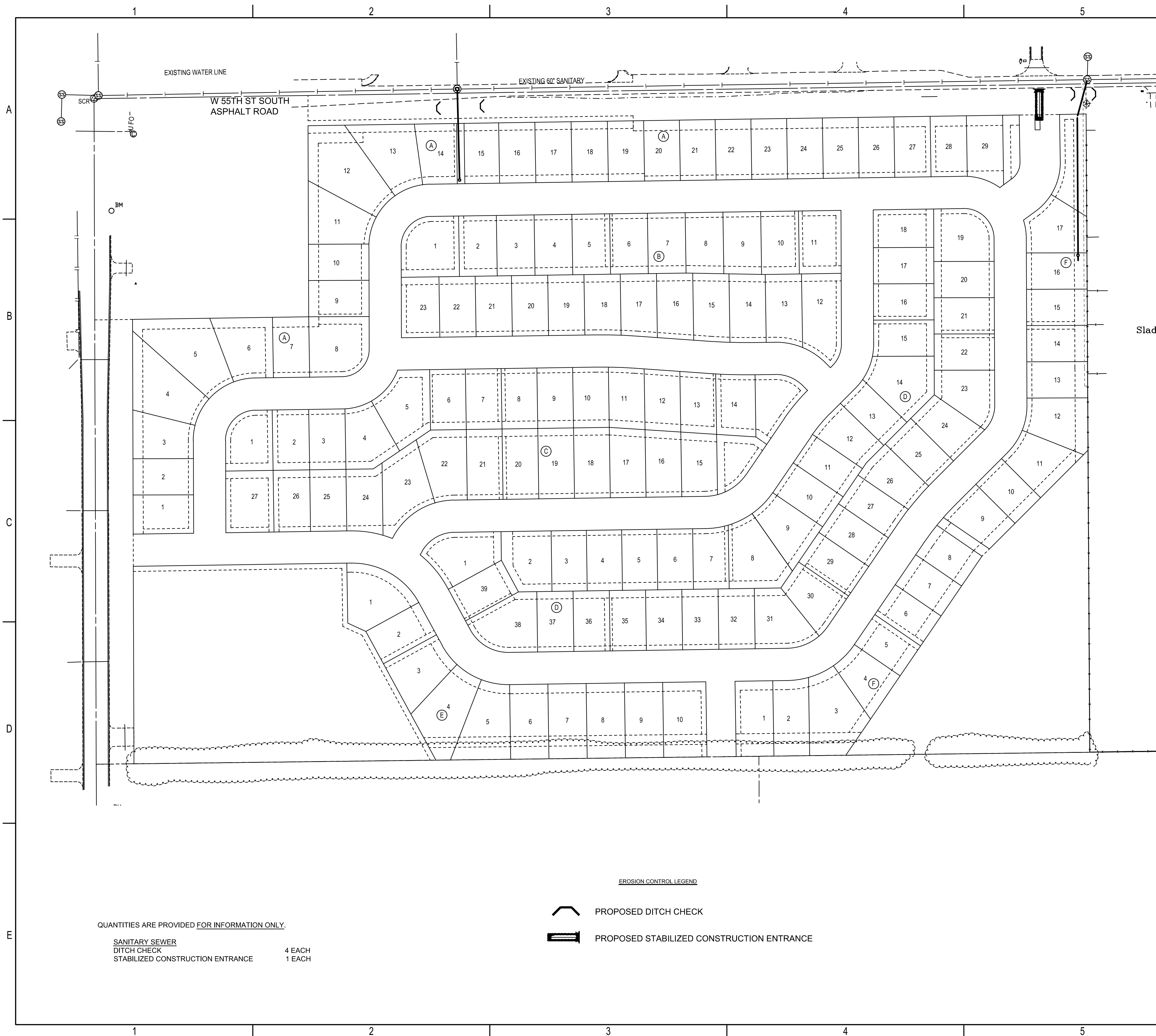
PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 468-2025-032376

ISSUE:	

JOB NO.	240873-004
DATE	MAY 2026
PM	RMM
DESIGNED BY	HJW
DRAWN BY	BSJ
CHECKED BY	GAS

MANHOLE FRAME AND COVER



SAVED 5/8/2026 5:01:30 PM BY HUNTER WILES
 PLOTTED 5/8/2026 5:08:28 PM BY HUNTER WILES
 \\PEC1\COMPNET\WICHITA-CIVIL\2024\240673\001\2PD4_PLANS\030\DRAWINGS\OFFSITE_SS\240673-004-10
 EROSION CONTROL PLAN.DWG

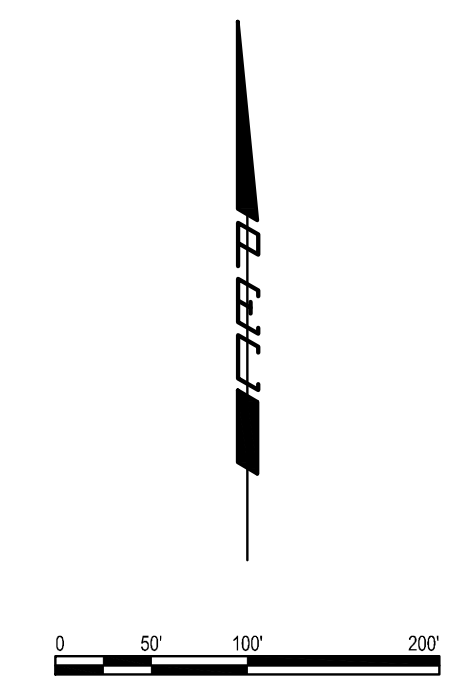


QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

SANITARY SEWER 4 EACH
 DITCH CHECK 4 EACH
 STABILIZED CONSTRUCTION ENTRANCE 1 EACH

EROSION CONTROL LEGEND

-  PROPOSED DITCH CHECK
-  PROPOSED STABILIZED CONSTRUCTION ENTRANCE



GENERAL NOTES

CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION PROTECTION THROUGHOUT THE ENTIRE PROJECT. THE QUANTITIES LISTED ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY.

THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED MINIMUM STANDARDS. WHENEVER SEDIMENT ENTERS THE STREETS, STORM SEWERS, DITCHES, OR PONDS, CONTRACTOR WILL INSTALL ADDITIONAL DEVICES, AS NEEDED, TO CORRECT THE PROBLEM.

THE EROSION CONTROL DEVICES SHOWN HEREON MUST BE IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL SUCH TIME AS THE SITE IS REESTABLISHED WITH PAVING OR GRASS. TEMPORARY OR PERMANENT SEEDING AND MULCH WILL BE INSTALLED WHEN EARTHWORK ACTIVITIES CEASE IN AN AREA FOR 14 DAYS OR MORE.

ANY MUD INADVERTENTLY TRACKED ONTO ANY STREET SHALL BE CLEANED UP BY THE CONTRACTOR, AT THE END OF EACH DAY'S WORK, OR AS DIRECTED BY THE FIELD ENGINEER.

CONTRACTOR TO FURNISH A TRUCK WASH-OUT PIT TO BE PLACED AT A CONVENIENT LOCATION THAT DOES NOT CONFLICT WITH CONSTRUCTION. CONTRACTOR SHALL CLEAN OUT AND BACKFILL PIT PRIOR TO FINAL INSPECTION. LOCATION SHALL BE APPROVED BY THE FIELD ENGINEER.

Slad.



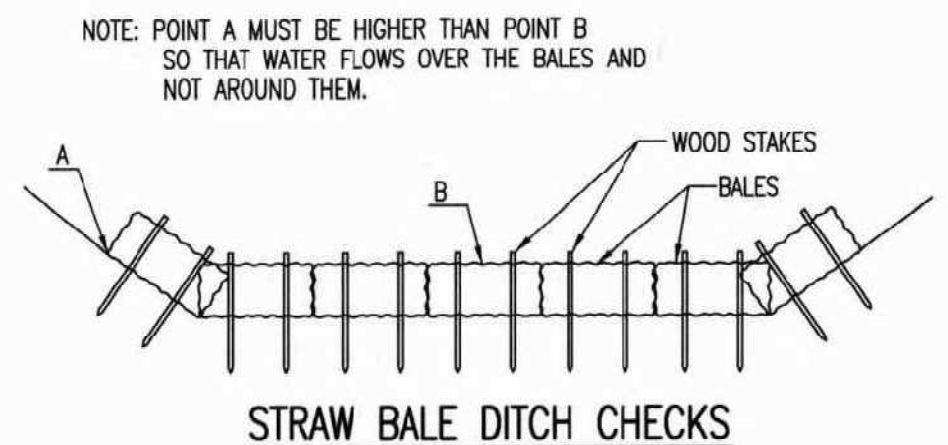
OFFSITE SANITARY SEWER MAIN IMPROVEMENTS TO SERVE COLTER RIDGE ADDITION

PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 468-2025-032376

Issue:	

JOB NO.	240873-004
DATE	MAY 2026
PM	RMM
DESIGNED BY	HJM
DRAWN BY	BJS
CHECKED BY	GAS

EROSION CONTROL PLAN



STRAW BALE DITCH CHECKS

MATERIAL SPECIFICATION:
 BALE DITCH CHECKS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS 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.
 OPTIONAL: THE DOWNSTREAM SCOUR APRON SHOULD BE CONSTRUCTED OF A DOUBLE-NETTED STRAW EROSION-CONTROL BLANKET AT LEAST 6' WIDE.
 OPTIONAL: THE METAL LANDSCAPE STAPLES USED TO ANCHOR THE EROSION-CONTROL BLANKET SHOULD BE AT LEAST 8" LONG.

PLACEMENT:
 BALE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE DITCH CHECK SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.
 STRAW BALE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.
 BALES SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.
 THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

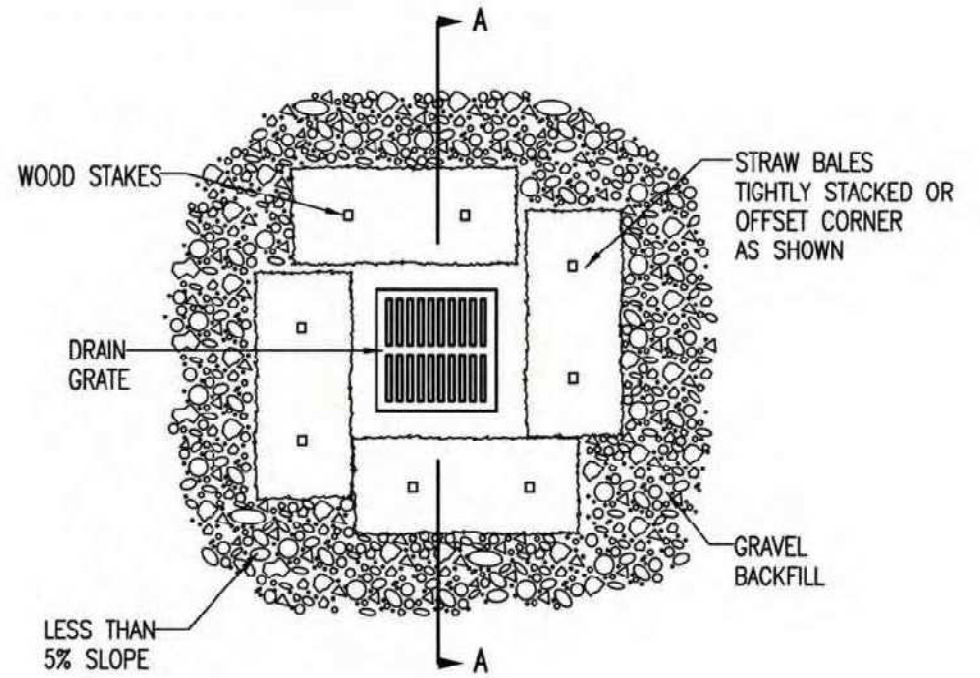
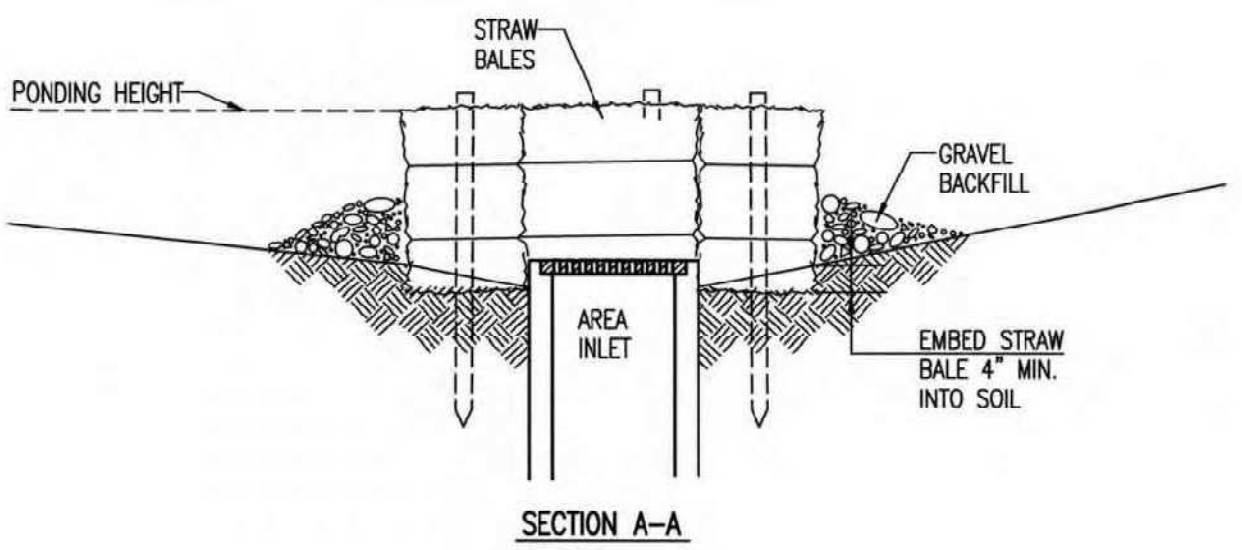
DITCH CHECK SPACING (%)	CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:
 EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH--IT WILL BE USED LATER.
 OPTIONAL: ON THE DOWNSTREAM SIDE OF THE TRENCH, ROLL OUT A LENGTH OF EROSION-CONTROL BLANKET (SCOUR APRON) EQUAL TO THE LENGTH OF THE TRENCH. PLACE THE UPSTREAM EDGE OF THE EROSION-CONTROL BLANKET ALONG THE BOTTOM UPSTREAM EDGE OF THE TRENCH. THE EROSION CONTROL BLANKET SHOULD BE ANCHORED IN THE TRENCH WITH ONE ROW OF 8" LANDSCAPE STAPLES PLACED ON 18" CENTERS. THE REMAINDER OF THE EROSION-CONTROL BLANKET (THE PORTION THAT IS NOT LYING IN THE TRENCH) WILL SERVE AS THE DOWNSTREAM SCOUR APRON. THIS SECTION OF THE BLANKET SHOULD BE ANCHORED TO THE GROUND WITH 8" LANDSCAPE STAPLES PLACED AROUND THE PERIMETER OF THE BLANKET ON 18" CENTERS. THE REMAINDER OF THE BLANKET SHOULD BE ANCHORED USING TWO EVENLY SPACED ROWS OF 8" LANDSCAPE STAPLES ON 18" CENTERS PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
 PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN 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 UPSTREAM SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP AND EXTEND UPSTREAM NO MORE THAN 24".

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:
 DO NOT PLACE A BALE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.
 DO NOT PLACE BALE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.
 FOLLOW PRESCRIBED DITCH-CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.
 DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE.
 DO NOT PLACE BALE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.
 BALE DITCH CHECKS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE CHECK.

INSPECTION AND MAINTENANCE:
 BALE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
 DOES WATER FLOW UNDER THE DITCH CHECK?
 DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
 ARE ANY BALES AND/OR SCOUR APRONS (OPTIONAL) DISLODGED?
 ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
 DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



STRAW BALE BARRIERS FOR AREA INLETS (INLET PROTECTION)

MATERIAL SPECIFICATION:
 BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS 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.
 TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

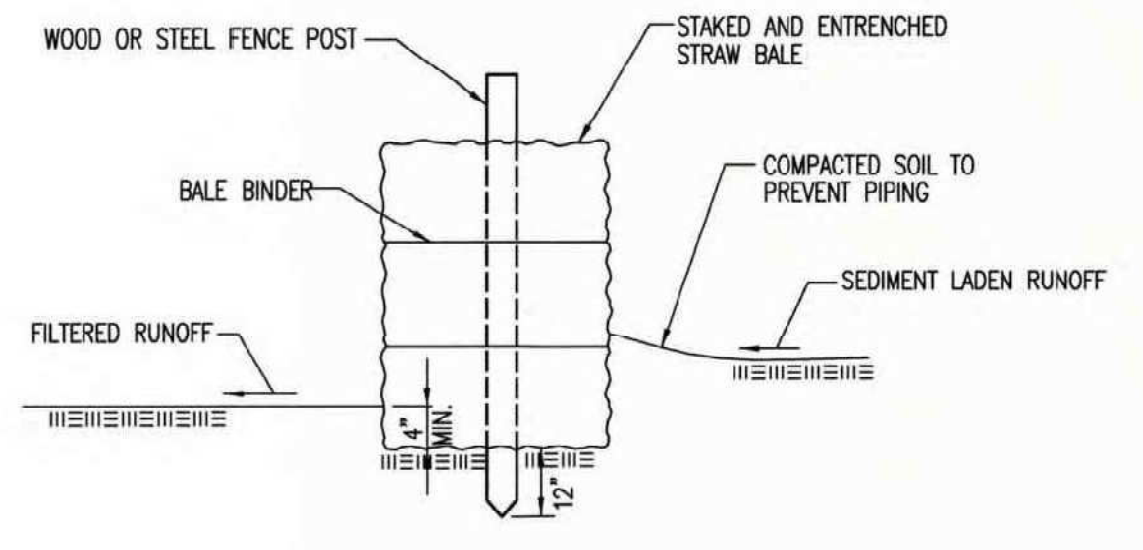
PLACEMENT:
 BALE AREA INLET BARRIERS SHOULD BE PLACED DIRECTLY AROUND THE PERIMETER OF A DROP INLET. WHEN A BALE AREA INLET BARRIER IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER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

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 OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

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?



STRAW BALE BARRIERS

MATERIAL SPECIFICATION:
 BALE SLOPE BARRIERS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS 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.
 TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:
 A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT.
 WHEN PRACTICABLE, BALE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
 BALE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:
 EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.
 PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN 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 UPSLOPE SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:
 WHEN PRACTICAL, DO NOT PLACE BALE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. CONCENTRATED FLOW OVER A SLOPE BARRIER CREATES A SCOUR HOLE ON THE DOWNSLOPE SIDE OF THE BARRIER. THE SCOUR HOLE EVENTUALLY UNDERMINES THE BALES AND THE BARRIER FAILS.
 DO NOT PLACE BALE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.
 BALE SLOPE 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 SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
 DOES WATER FLOW UNDER THE SLOPE 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 SLOPE BARRIER?

REVISION DATE: MAY 2013

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STRAW BALE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER: _____ OCA NUMBER: _____ DATE: _____

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

SHEET _____



303 SOUTH TOPEKA
WICHITA, KS 67202
316-262-2691 www.pec1.com



OFFSITE SANITARY SEWER MAIN IMPROVEMENTS TO SERVE COLTER RIDGE ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 468-2025-032376

Issue:		

JOB NO.	240873-004
DATE	MAY 2026
PM	RMM
DESIGNED BY	HJW
DRAWN BY	BJS
CHECKED BY	GAS

STRAW BALE DITCH CHECK & BARRIER DETAILS

SAVED 8/19/2025 10:08:13 AM BY DUSTIN.LOHMANN
 PLOTTED 5/8/2026 4:48:55 PM BY HUNTER WILES
 \\PEC1-COM\PECT\WICHITA-CIVIL\2024\240873\001\2PD4_PLANS\030\DRAWINGS\OFFSITE SS\240873-004-13
 BWPS.DWG

