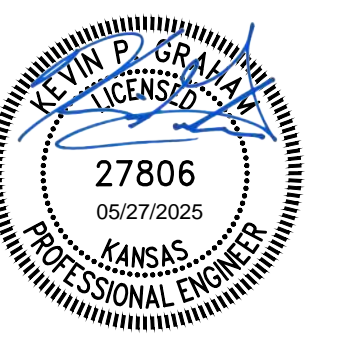


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1	2	3	4	5	6
GENERAL NOTES					
<p>1. ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS, UNLESS OTHERWISE INCLUDED IN THE CONTRACT DOCUMENTS.</p>	<p>10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS AND SECTION CORNERS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.</p>	<p>ACCORDANCE WITH THE CITY OF WICHITA SPECIFICATIONS. EXISTING GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL BE REPLANTED WITH THE SAME TYPE OF GRASS AS WAS REMOVED, UNLESS OTHERWISE SPECIFIED.</p>			
<p>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.</p>	<p>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.</p>	<p>19. 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. REFER TO SEEDING PLAN, CG401.</p>			
<p>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.</p>	<p>12. 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 BY THE CONTRACTOR. 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.</p>	<p>20. IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, 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 CONTRACTORS RESPONSIBILITY.</p>			
<p>4. THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:</p> <p>EMERGENCY DISPATCH: 911 COX COMMUNICATIONS: 888-249-3530 EVERGY: 800-383-1183 AT&T: 800-286-8313 KANSAS GAS SERVICE: 888-482-4950</p>					
<p>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.</p>	<p>13. 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.</p>				
<p>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.</p>	<p>14. 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.</p>				
<p>7. ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.</p>	<p>15. 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.</p>				
<p>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.</p>	<p>16. 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.</p>				
<p>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.</p>	<p>17. 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.</p>				
	<p>18. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLANTED WITH GRASS AND FERTILIZED IN</p>				



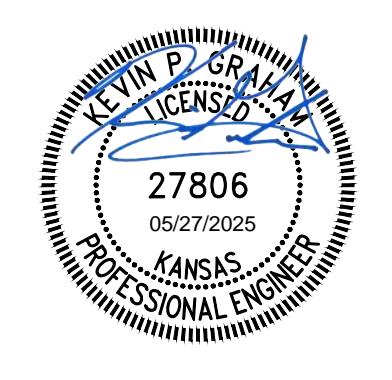
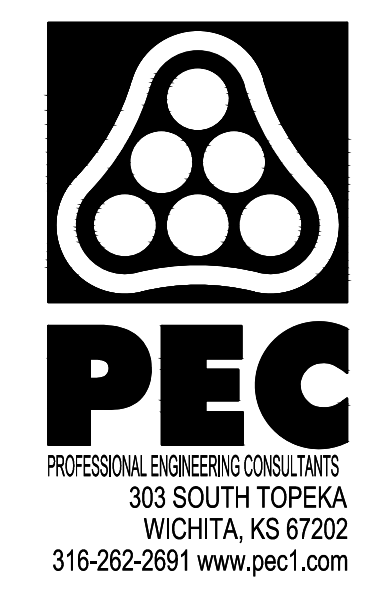
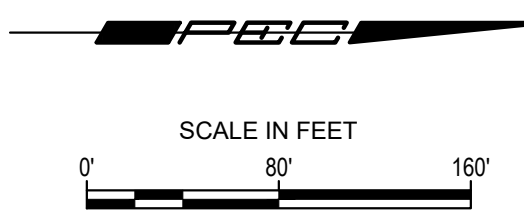
STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:		

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

GENERAL NOTES

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STORM WATER DRAIN NO. 526 IMPROVEMENTS

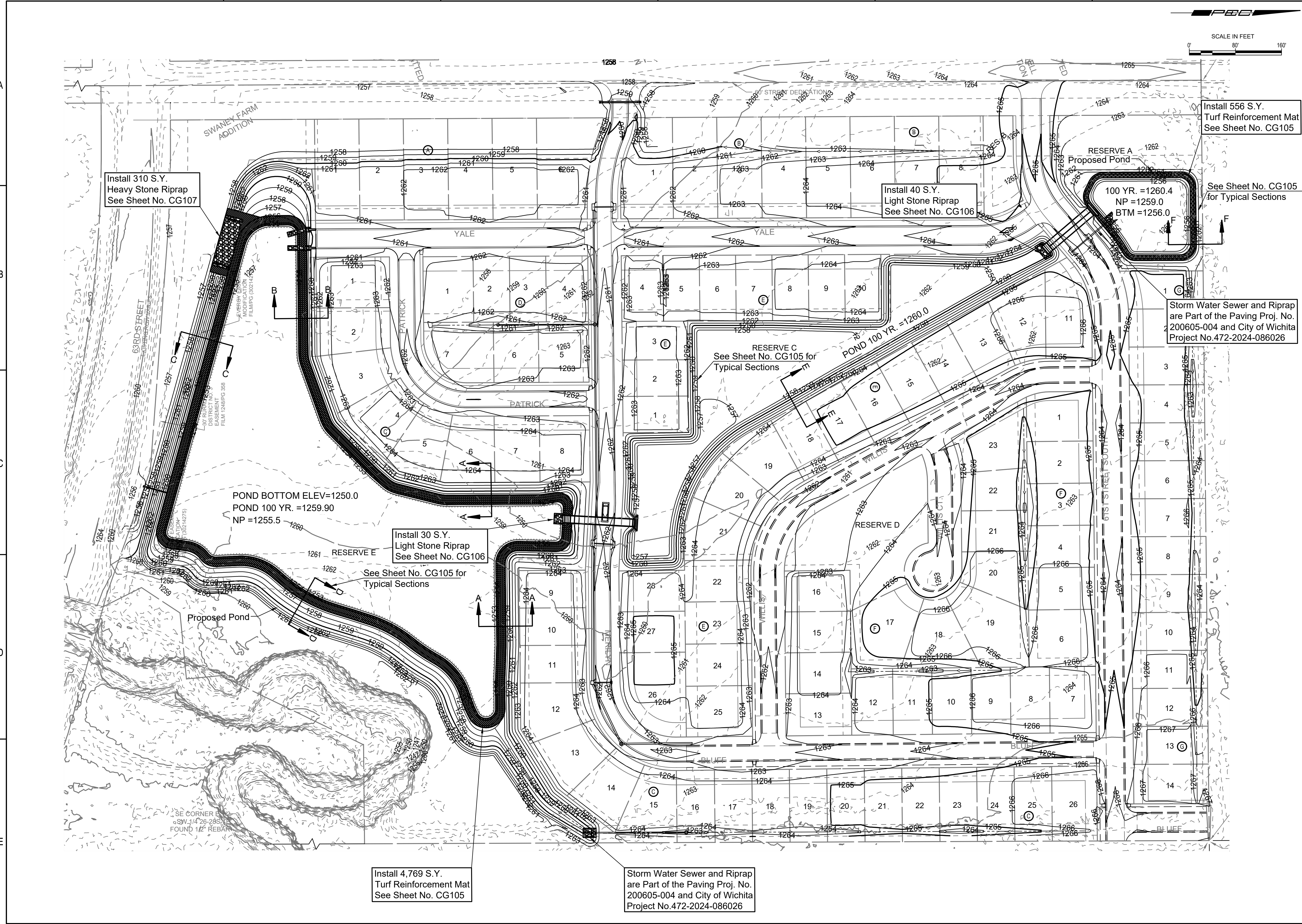
SWANEY FARM ADDITION

PAUL GUNZELMAN CITY ENGINEER
CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:				
JOB NO.	200605-005			
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DRAWN BY	BJS			
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POND GRADING PLAN

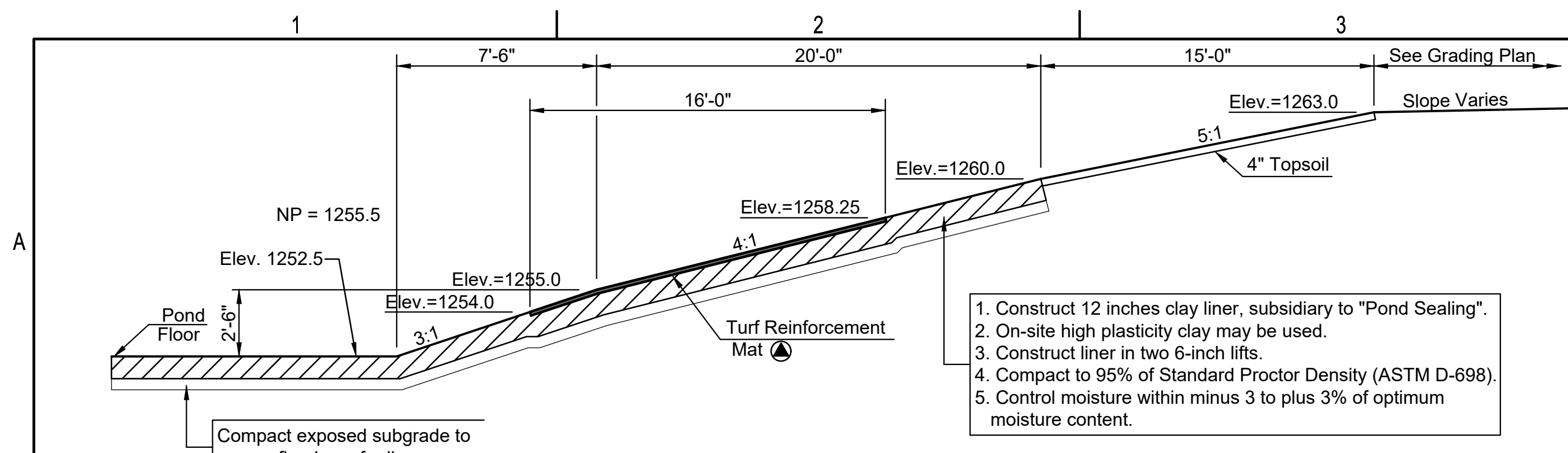
CG104
7 OF 44



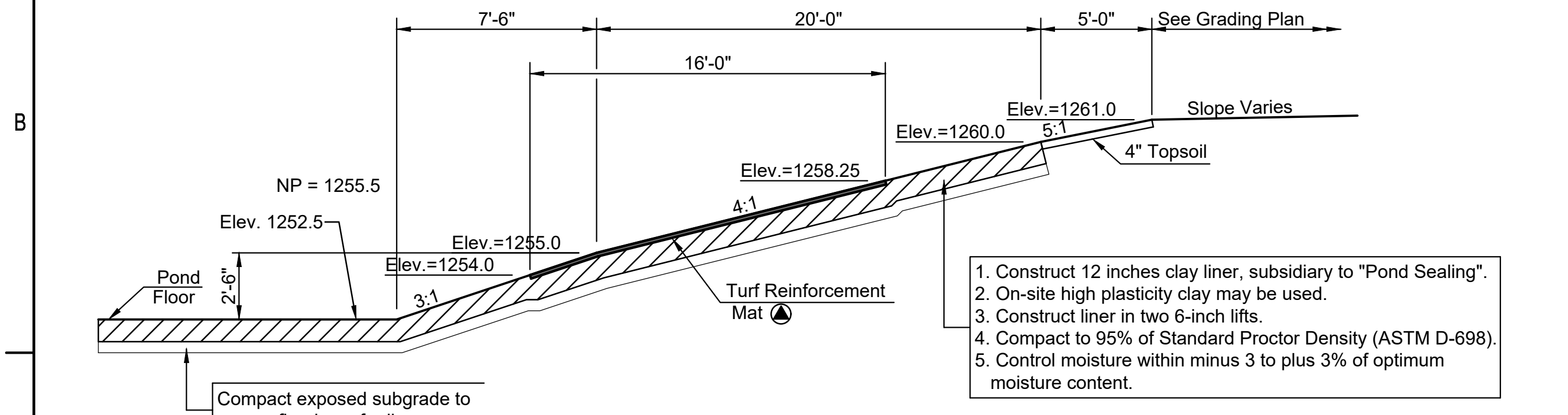
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SE CORNER
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 FOUND 12" REBAR

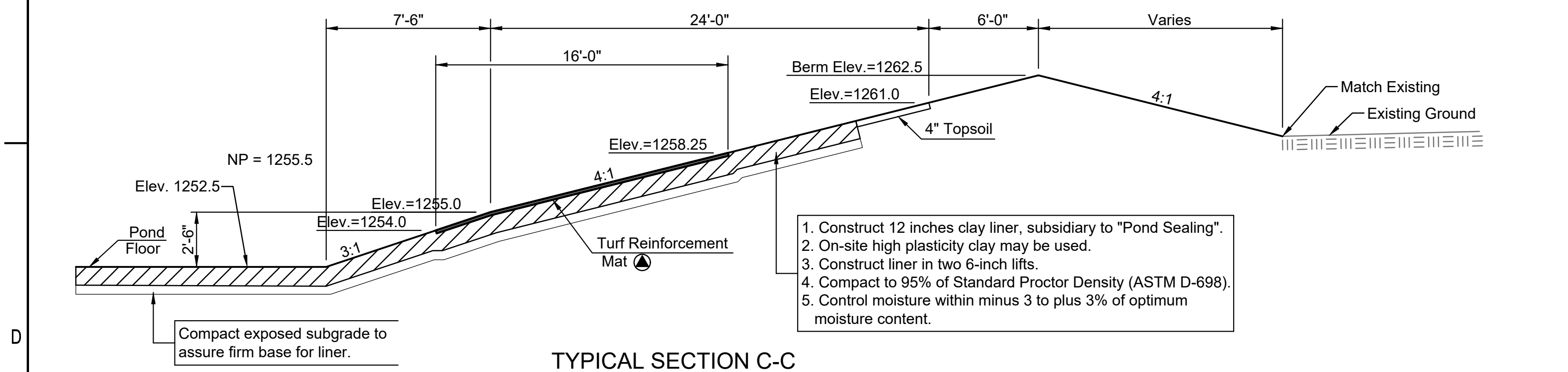
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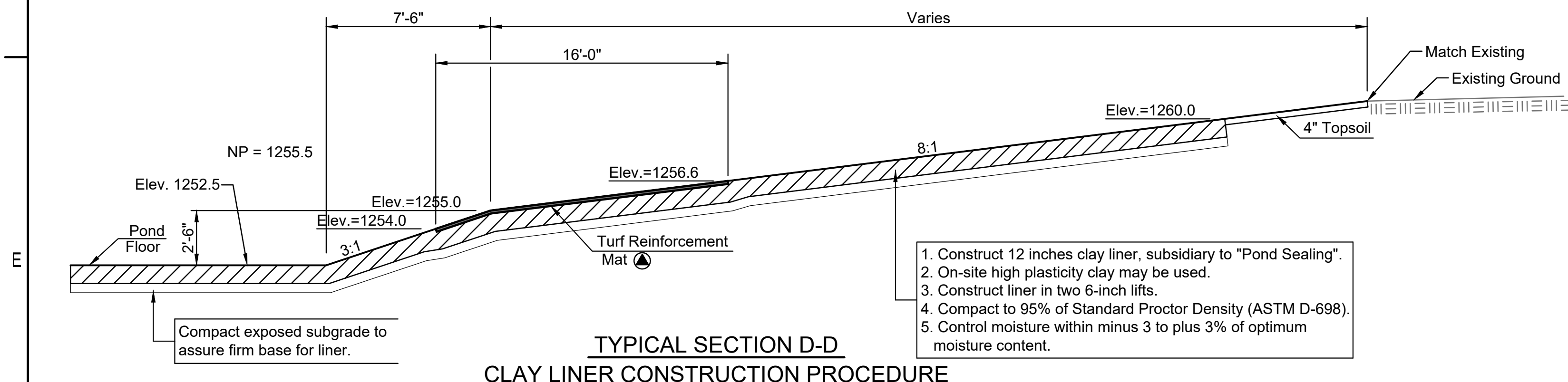
**TYPICAL SECTION A-A
CLAY LINER CONSTRUCTION PROCEDURE
FOR POND SEALING**



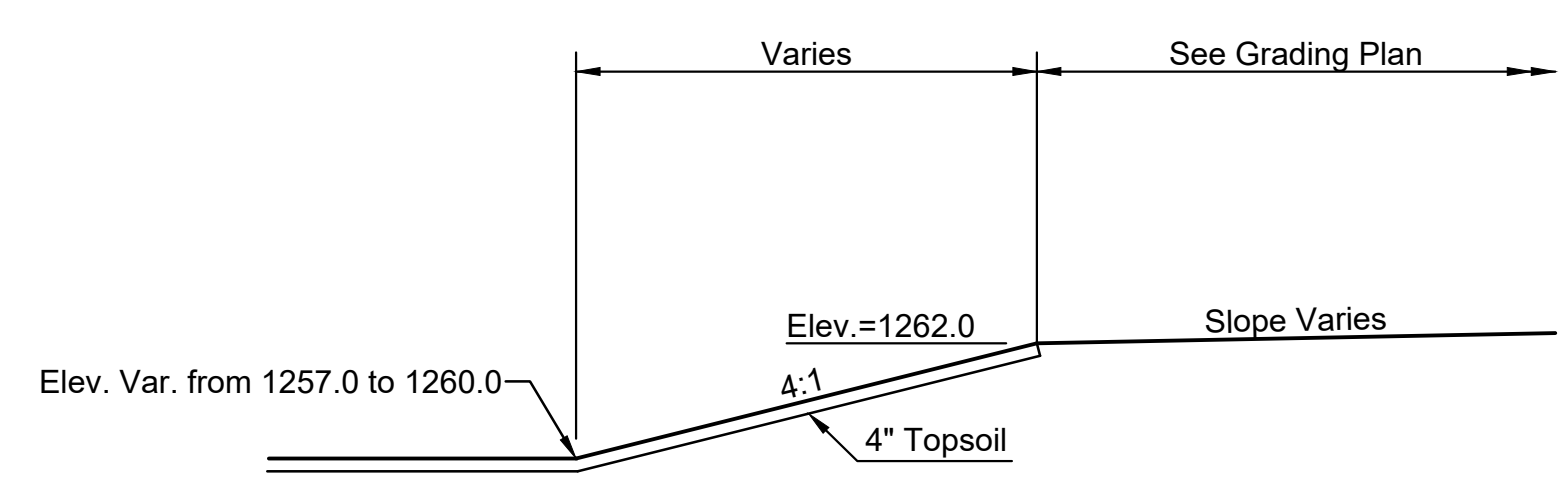
**TYPICAL SECTION B-B
CLAY LINER CONSTRUCTION PROCEDURE
FOR POND SEALING**



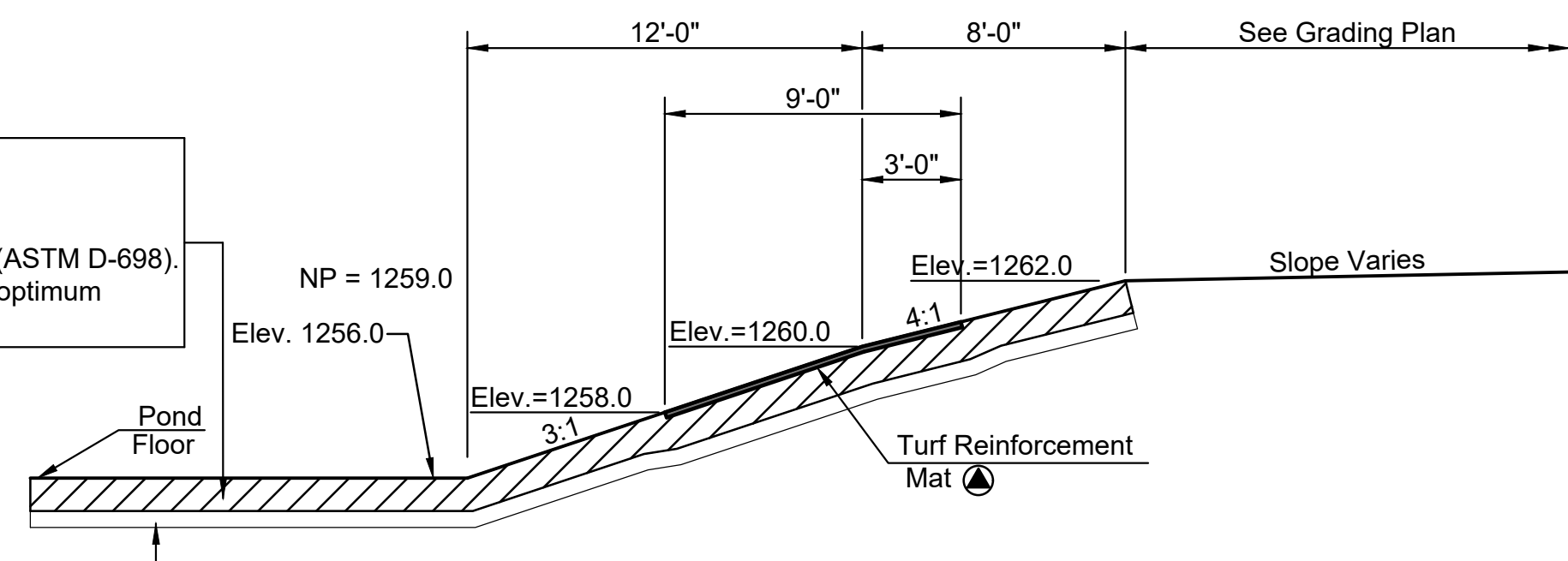
**TYPICAL SECTION C-C
CLAY LINER CONSTRUCTION PROCEDURE
FOR POND SEALING**



**TYPICAL SECTION D-D
CLAY LINER CONSTRUCTION PROCEDURE
FOR POND SEALING**



TYPICAL SECTION E-E



**TYPICAL SECTION F-F
CLAY LINER CONSTRUCTION PROCEDURE
FOR POND SEALING**

1. Construct 12 inches clay liner, subsidiary to "Pond Sealing".
2. On-site high plasticity clay may be used.
3. Construct liner in two 6-inch lifts.
4. Compact to 95% of Standard Proctor Density (ASTM D-698).
5. Control moisture within minus 3 to plus 3% of optimum moisture content.

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TURF REINFORCEMENT MAT SHALL BE EAST COAST EROSION "ECSC-3" OR APPROVED EQUIVALENT. EQUIVALENT MUST INCLUDE PRODUCT WARRANTY EQUAL TO THAT OF EAST COAST EROSION. INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

 PAID FOR AS S.Y. "TURF REINFORCEMENT MAT" AS INDICATED ON POND GRADING PLAN. THE BID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTS NECESSARY TO COMPLETE WORK.

POND SEALING NOTES:

THE POND AREAS INDICATED FOR CLAY LINER SHALL BE OVEREXCAVATED TO A DEPTH OF 12" BELOW THE FINAL POND SURFACE. THE OVEREXCAVATED MATERIAL SHALL BE STOCKPILED FOR RE-USE, UTILIZED IN PROJECT EMBANKMENTS, OR STOCKPILED ON SITE. BACKFILL OVEREXCAVATED AREA WITH PROJECT AREA CLAY MATERIAL AND COMPACTED TO PROVIDE AN IMPERVIOUS SURFACE. NO SHALE PERMITTED IN THIS ZONE. PROVIDE QUALITY CONTROL TESTING AS OUTLINED BELOW:

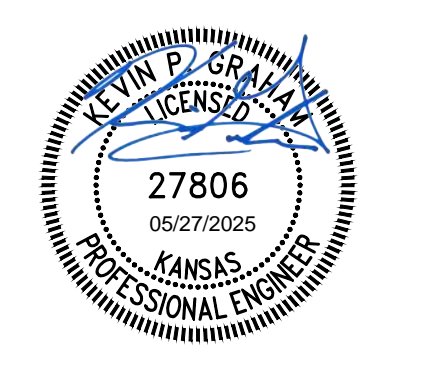
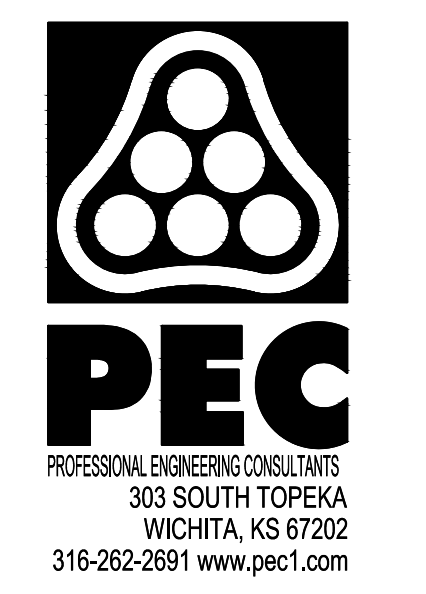
1. POND BOTTOM ELEVATIONS SHOWN IN THESE PLANS IS THE FINISHED GRADE ELEVATION.
2. CONSTRUCT 12" THICK POND LINER IN 6" THICK LIFTS.
3. MATERIAL INTENDED FOR POND LINER CONSTRUCTION SHOULD BE SUBMITTED TO A 3RD PARTY TESTING AGENCY FOR LABORATORY TESTING PRIOR TO THE START OF CONSTRUCTION.
4. LIFTS SHOULD BE COMPACTED TO THE MAXIMUM DRY DENSITY REQUIRED TO ACHIEVE A MINIMUM HYDRAULIC CONDUCTIVITY OF 1X10-7 CM/SEC OR LESS.
5. MAXIMUM DRY DENSITY SHOULD BE DETERMINED BY A GEOTECHNICAL TESTING LABORATORY.
6. MOISTURE CONTENT SHOULD BE DETERMINED BY A GEOTECHNICAL TESTING LABORATORY.
7. POND LINER DENSITY TESTING FREQUENCY SHALL BE EVERY 400' ALONG POND SIDES PER LIFT AND AT 2 LOCATIONS ALONG THE POND BOTTOM IN EACH POND (4 TOTAL ALONG POND BOTTOM).
8. AFTER CONSTRUCTION OF THE POND LINER, CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MOISTURE CONTENT OF THE LINER AT OR ABOVE OPTIMUM TO PREVENT SHRINKAGE CRACKING UNTIL THE POND IS FILLED.
9. THE CONTRACTOR MAY ELECT TO PLACE A 6" TOPSOIL CAP ABOVE THE CLAY POND LINER. THE BOTTOM OF THE POND SHALL BE OVEREXCAVATED AN ADDITIONAL 6" SO THAT THE POND BOTTOM ELEVATION DOES NOT CHANGE. THE COST OF A 6" TOPSOIL CAP SHALL BE SUBSIDIARY TO "POND SEALING".

POND SEALING, AS DESCRIBED HEREIN, SHALL BE MEASURED AND PAID FOR AS FOLLOWS: THE OVEREXCAVATION WILL BE PAID FOR UNDER THE LUMP SUM BID ITEM "POND SEALING". THIS SHALL BE CONSIDERED FULL COMPENSATION FOR ALL OVEREXCAVATION, STOCKPILING, AND DOUBLE HANDLING OF EARTHWORK (IF NECESSARY).

PROPERTY	TEST METHOD	TEST VALUE
MIN. % PASSING #200 SIEVE	ASTM D1140	80
MIN. LIQUID LIMIT	ASTM D4318	40
MIN. PLASTICITY INDEX	ASTM D4318	30

POND GRADING NOTES:

CONTRACTOR SHALL PERFORM GRADING AS SHOWN BY CONTOURS AND COORDINATES ON SHEET NOS. CG102 AND CG103.

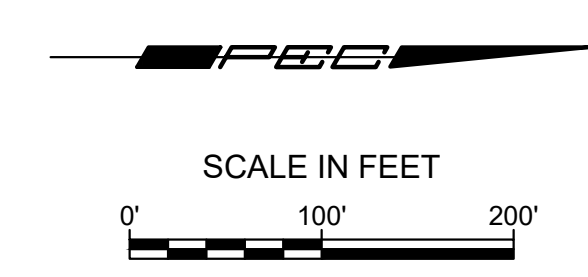
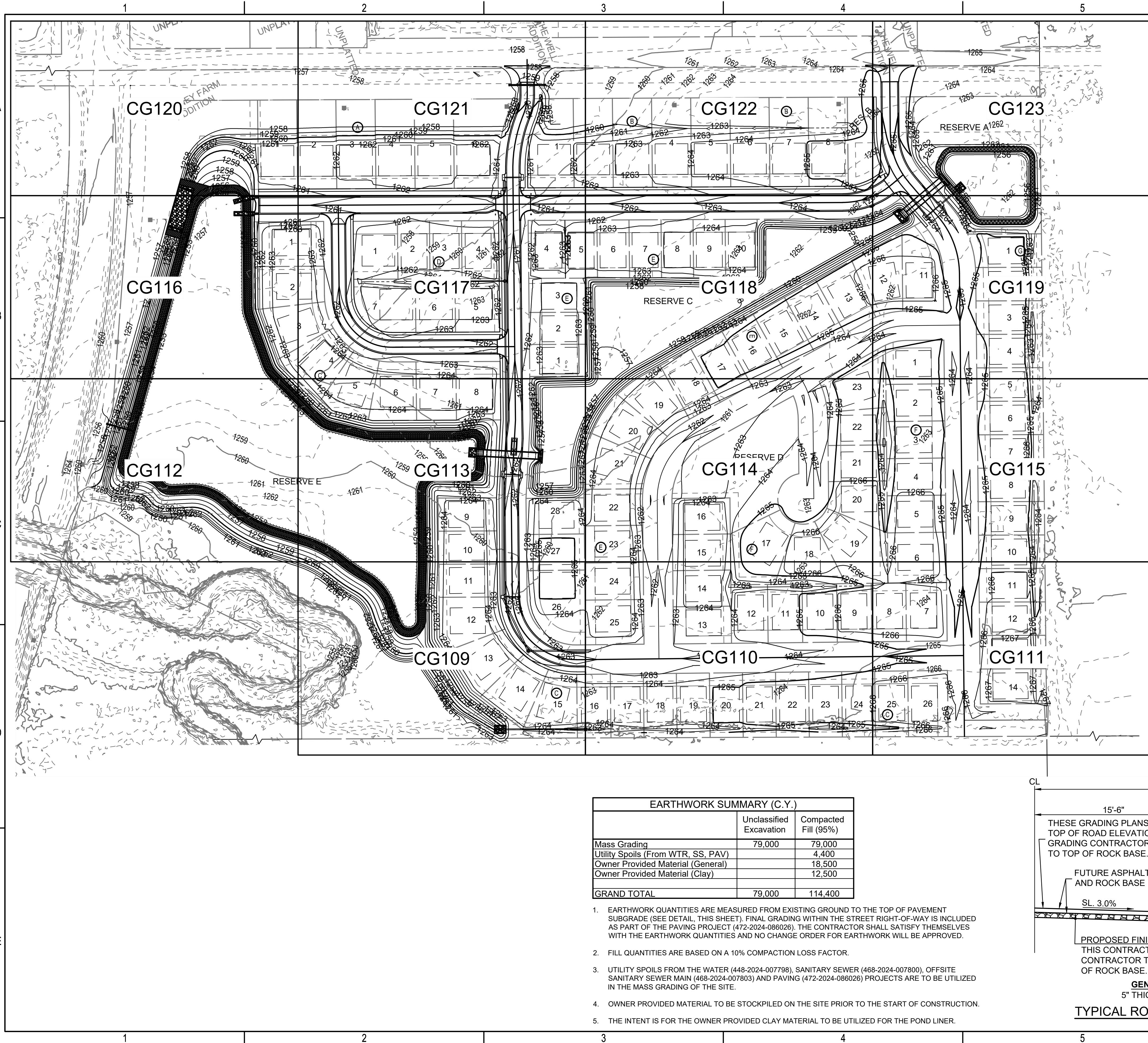


STORM WATER DRAIN NO. 526 IMPROVEMENTS
 SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
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POND TYPICAL SECTIONS
CG105
 8 OF 44

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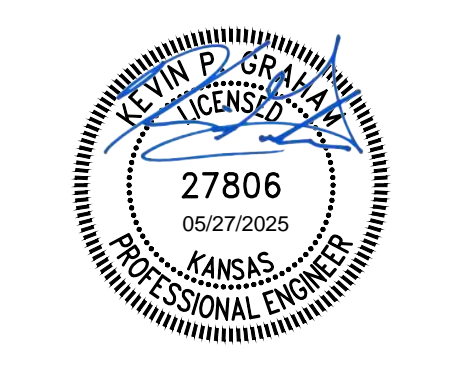
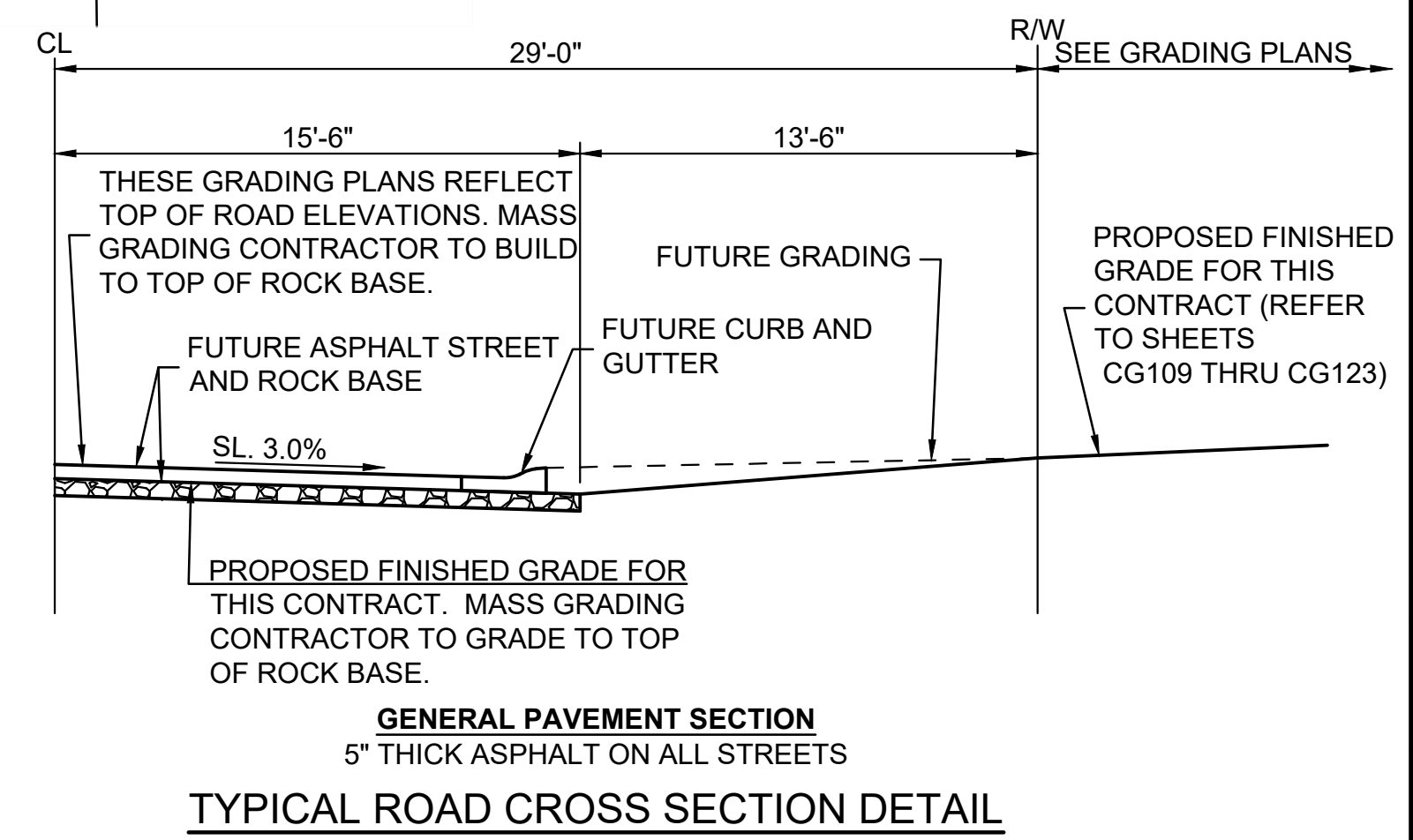


SITE GRADING NOTES

1. FOR AREAS OF FILL, 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 RESERVES AND DRAINAGE DITCHES PRIOR TO SEEDING. THE TOP 6" OF MATERIAL SHALL BE SOIL WHICH IS SUITABLE FOR GROWTH OF VEGETATION.
2. ONLY APPROVED MATERIALS SHALL BE USED IN PLACEMENT OF SITE FILL. THIS MATERIAL SHALL BE FREE OF ANY ORGANIC MATTER, LARGE STONES, AND DEBRIS.
3. ALL FILL PLACED ONSITE (INCLUDING STOCKPILE LOCATIONS) SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ALL FILL SHALL BE PLACED IN LIFTS AND COMPACTED TO THE DENSITY REQUIREMENTS, EXCEPT TOPSOILING.
4. NO WASTE MATERIAL SHALL BE PLACED IN ANY STREET RIGHT-OF-WAY.
5. THE LUMP SUM BID ITEMS "EXCAVATION" AND "FILL, COMPACTED" SHALL INCLUDE TOPSOIL STRIPPING AND PLACING, GRADING, AND COMPACTING OF SOIL MATERIAL TO THE REQUIREMENTS OF THIS GRADING PLAN; AND FOR ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
6. 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.
7. THE ACTUAL EXCAVATION OF MATERIAL FOR SITE GRADING IS INCLUDED IN THE BID ITEM "EXCAVATION".
8. COMPACTION ON THE LOTS AND WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE 95% STANDARD DENSITY. COMPACTION IN RESERVES SHALL BE AT 90% STANDARD DENSITY.
9. A DENSITY TEST FOR EVERY LOT PER EACH FOOT OF FILL MATERIAL PLACED SHALL BE PERFORMED ON ALL LOTS. TESTING EXPENSES WILL BE COVERED BY THE CONTRACTOR. TESTING COORDINATION SHALL BE BY THE CONTRACTOR.
10. THE "SOIL PAD" ELEVATIONS SHOWN ON SHEETS CG109 - CG123 REPRESENT THE REQUIRED FINISHED GRADE WITHIN THE LIMITS SHOWN ON EACH INDIVIDUAL LOT.
11. ANY EXCESS MATERIAL SHALL BE ONSITE AT A LOCATION TO BE COORDINATED WITH THE ENGINEER AND OWNER. MATERIAL SHALL BE BLADED SMOOTH AND SLOPED TO DRAIN.

EARTHWORK SUMMARY (C.Y.)		
	Unclassified Excavation	Compacted Fill (95%)
Mass Grading	79,000	79,000
Utility Spoils (From WTR, SS, PAV)		4,400
Owner Provided Material (General)		18,500
Owner Provided Material (Clay)		12,500
GRAND TOTAL	79,000	114,400

1. EARTHWORK QUANTITIES ARE MEASURED FROM EXISTING GROUND TO THE TOP OF PAVEMENT SUBGRADE (SEE DETAIL, THIS SHEET). FINAL GRADING WITHIN THE STREET RIGHT-OF-WAY IS INCLUDED AS PART OF THE PAVING PROJECT (472-2024-086026). THE CONTRACTOR SHALL SATISFY THEMSELVES WITH THE EARTHWORK QUANTITIES AND NO CHANGE ORDER FOR EARTHWORK WILL BE APPROVED.
2. FILL QUANTITIES ARE BASED ON A 10% COMPACTION LOSS FACTOR.
3. UTILITY SPOILS FROM THE WATER (448-2024-007798), SANITARY SEWER (468-2024-007800), OFFSITE SANITARY SEWER MAIN (468-2024-007803) AND PAVING (472-2024-086026) PROJECTS ARE TO BE UTILIZED IN THE MASS GRADING OF THE SITE.
4. OWNER PROVIDED MATERIAL TO BE STOCKPILED ON THE SITE PRIOR TO THE START OF CONSTRUCTION.
5. THE INTENT IS FOR THE OWNER PROVIDED CLAY MATERIAL TO BE UTILIZED FOR THE POND LINER.

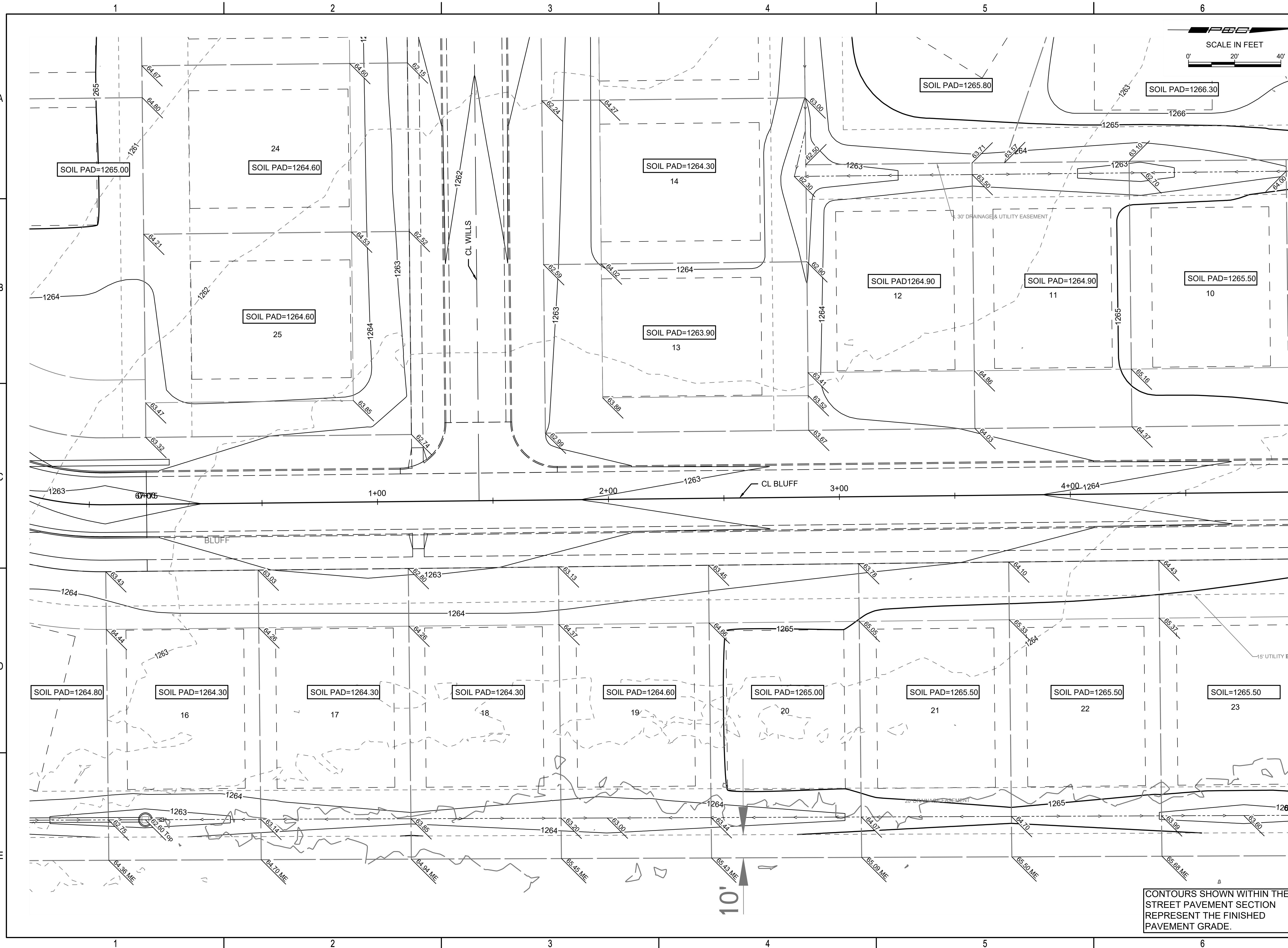


STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

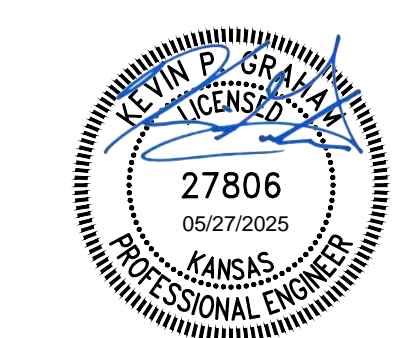
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DRAWN BY	BJS
CHECKED BY	KMS

OVERALL GRADING PLAN

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CONTOURS SHOWN WITHIN THE STREET PAVEMENT SECTION REPRESENT THE FINISHED PAVEMENT GRADE.



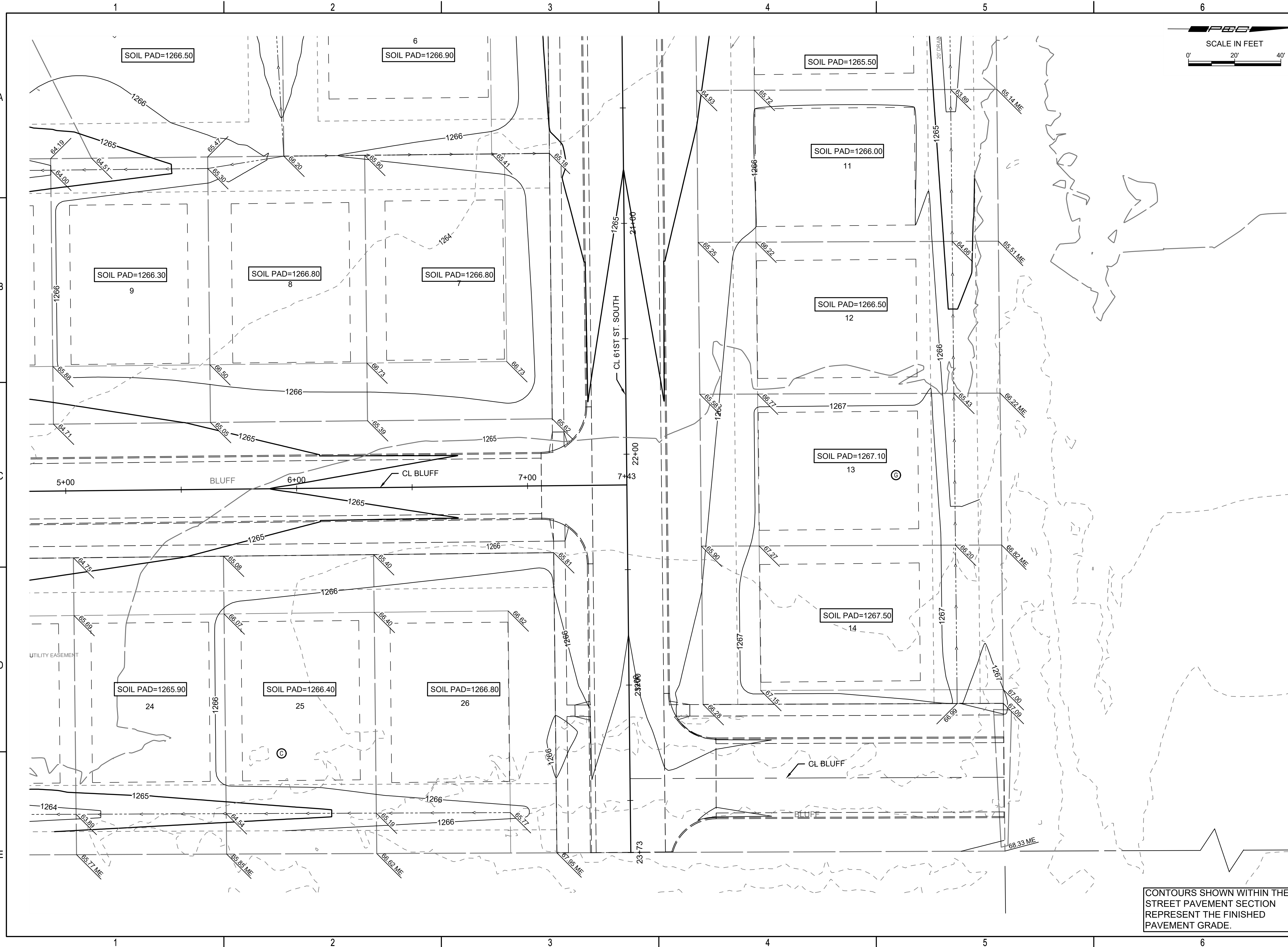
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 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	

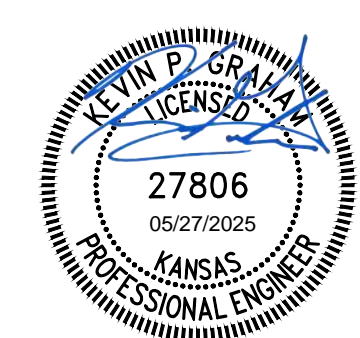
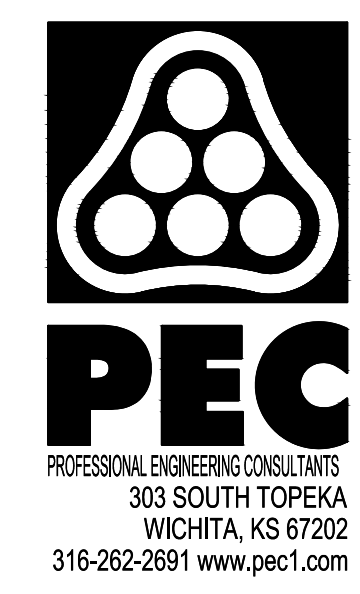
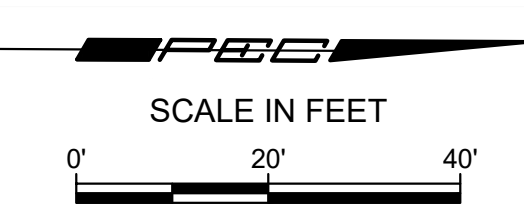
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

GRADING PLAN-AREA 2

SAVED 12/23/2024 2:46:05 PM BY KEVIN.GRAHAM
 PLOTTED 5/27/2025 11:02:54 AM BY KEVIN.GRAHAM
 U:\WICHITA-CIVIL\2020\200605004\2PD3_PLANS\0301_SWD\14-200605-005-CG111 GRADING PLAN-AREA 3.DWG



CONTOURS SHOWN WITHIN THE STREET PAVEMENT SECTION REPRESENT THE FINISHED PAVEMENT GRADE.



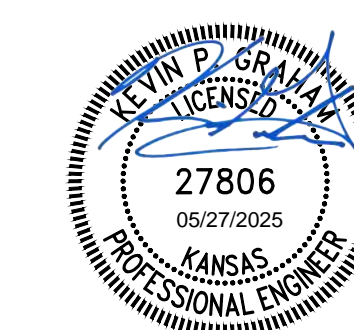
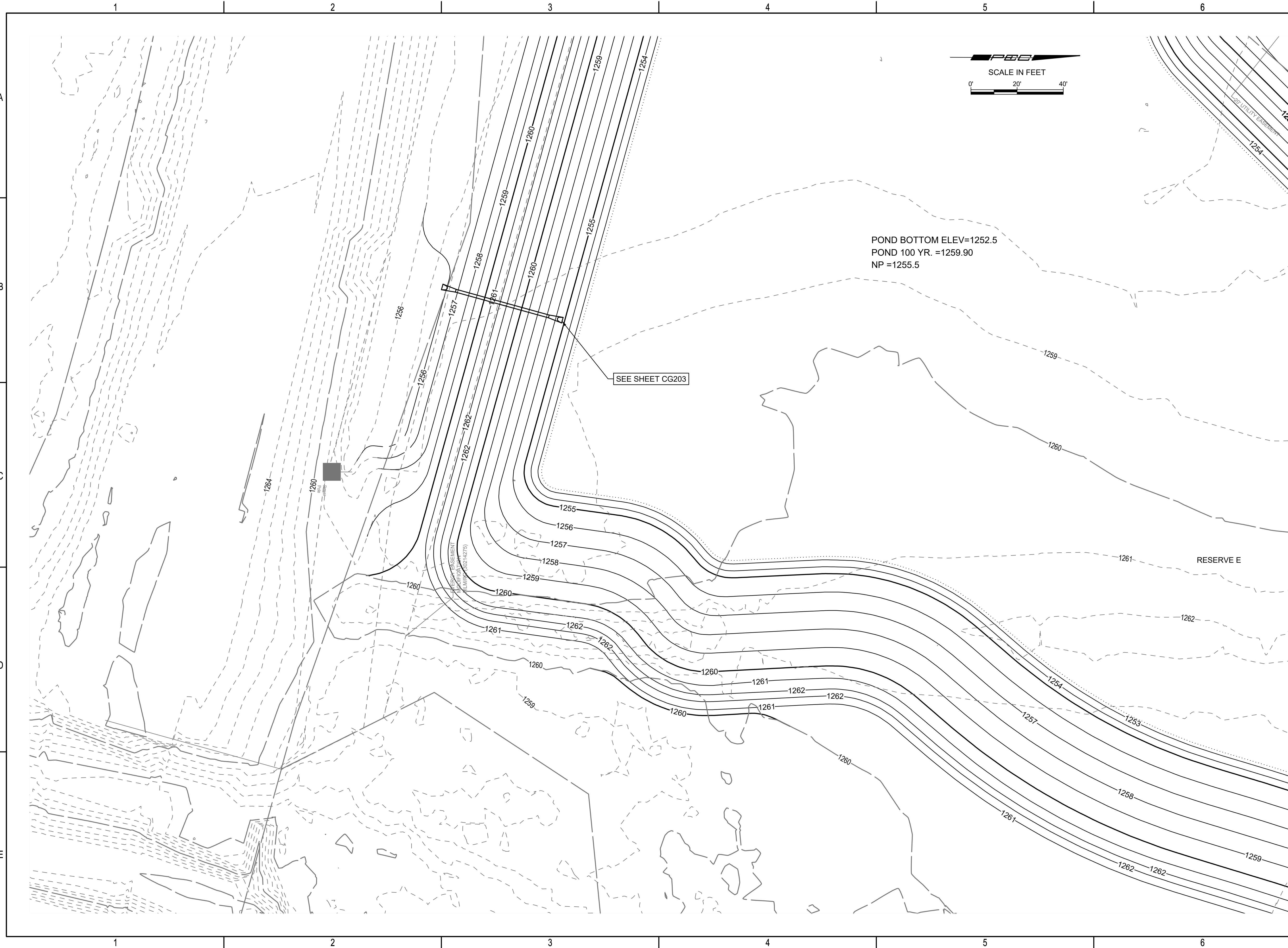
STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:			

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

GRADING PLAN-AREA 3

SAVED 5/27/2025 9:59:47 AM BY KEVIN GRAHAM
 PLOTTED 5/27/2025 11:03:52 AM BY KEVIN GRAHAM
 U:\WICHITA-CIVIL\2020\200605004\2PPD3_PLANS\0301_SWD\15-200605-005-CG112 GRADING PLAN-AREA 4.DWG



STORM WATER DRAIN NO. 526
 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

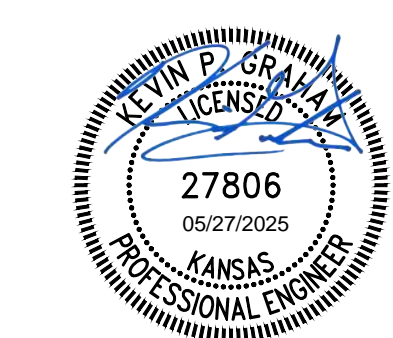
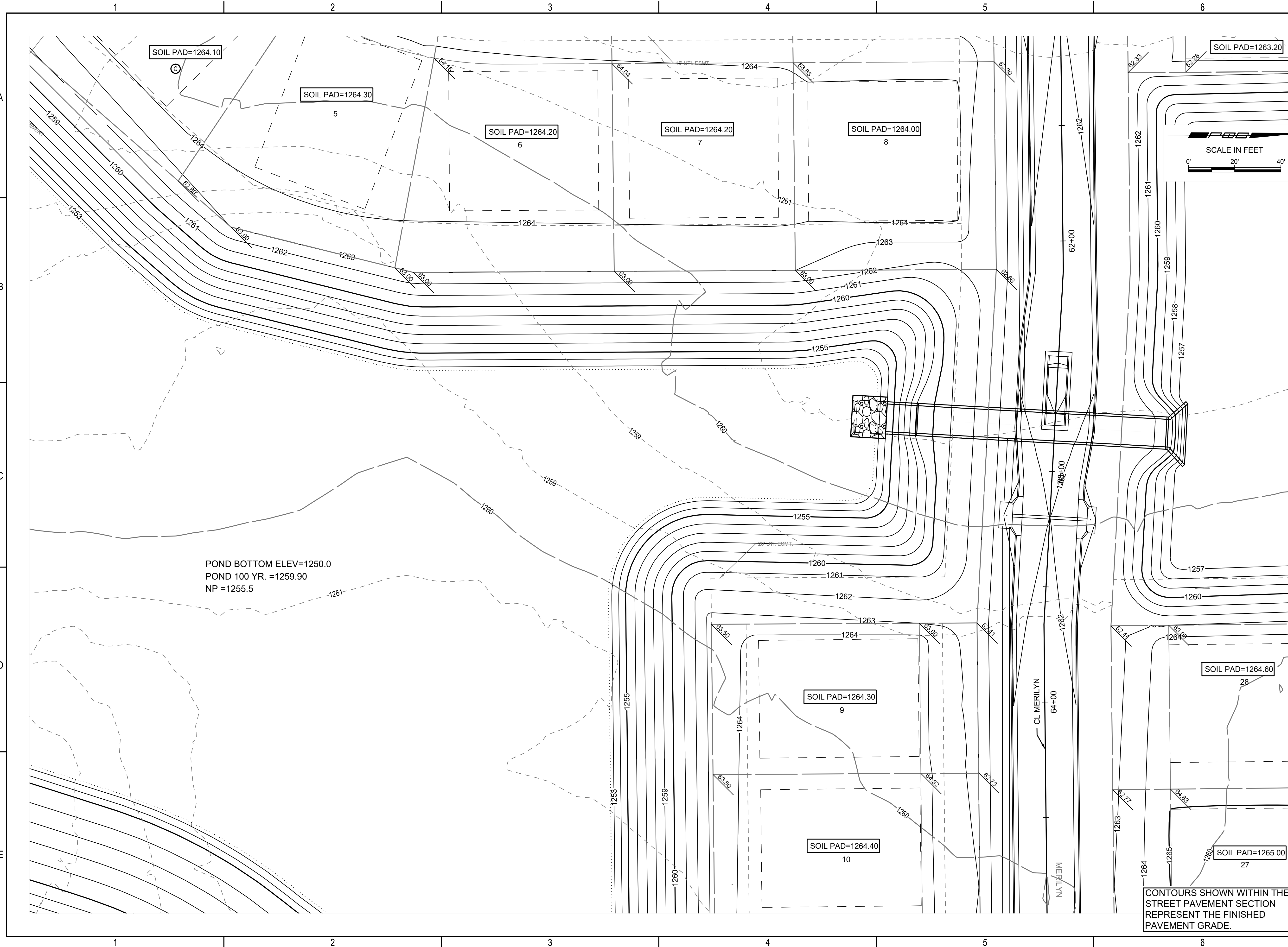
Issue:					

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

GRADING PLAN-AREA 4

CG112
 15 OF 44

SAVED 5/27/2025 9:59:20 AM BY KEVIN GRAHAM
 PLOTTED 5/27/2025 11:04:49 AM BY KEVIN GRAHAM
 U:\WICHITA-CIVIL\2020\200605004\2PD3_PLANS\0301_SWD\16-200605-005-CG113 GRADING PLAN-AREA 5.DWG



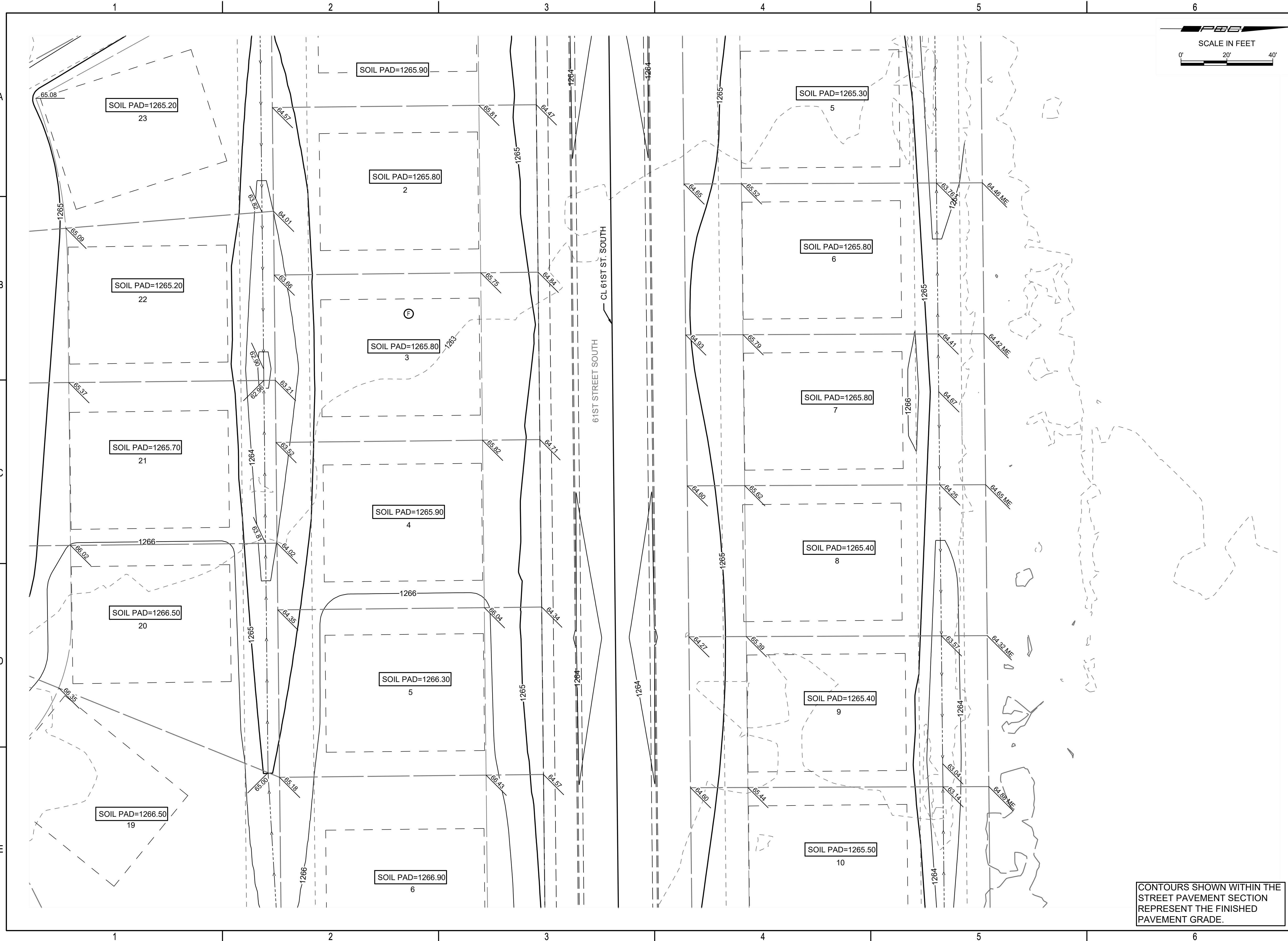
STORM WATER DRAIN NO. 526
 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:					

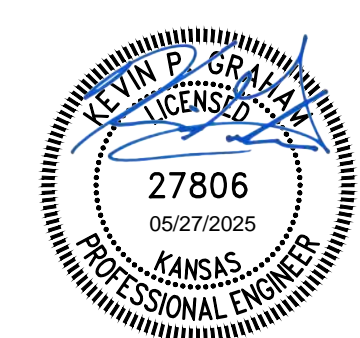
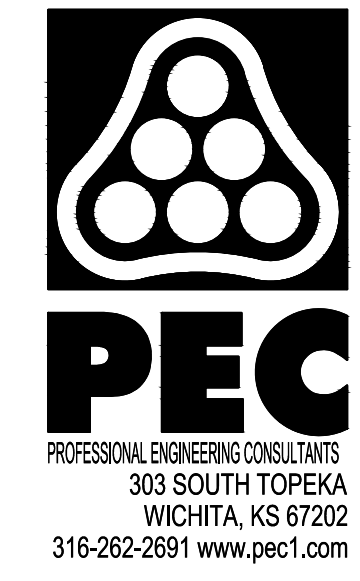
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

GRADING PLAN-AREA 5

SAVED 12/23/2024 2:55:21 PM BY KEVIN.GRAHAM
 PLOTTED 5/27/2025 11:06:55 AM BY KEVIN.GRAHAM
 U:\WICHITA-CIVIL\2020\200605004\2PPD3_PLANS\0301_SWD\18-200605-005-CG115 GRADING PLAN-AREA 7.DWG



CONTOURS SHOWN WITHIN THE STREET PAVEMENT SECTION REPRESENT THE FINISHED PAVEMENT GRADE.



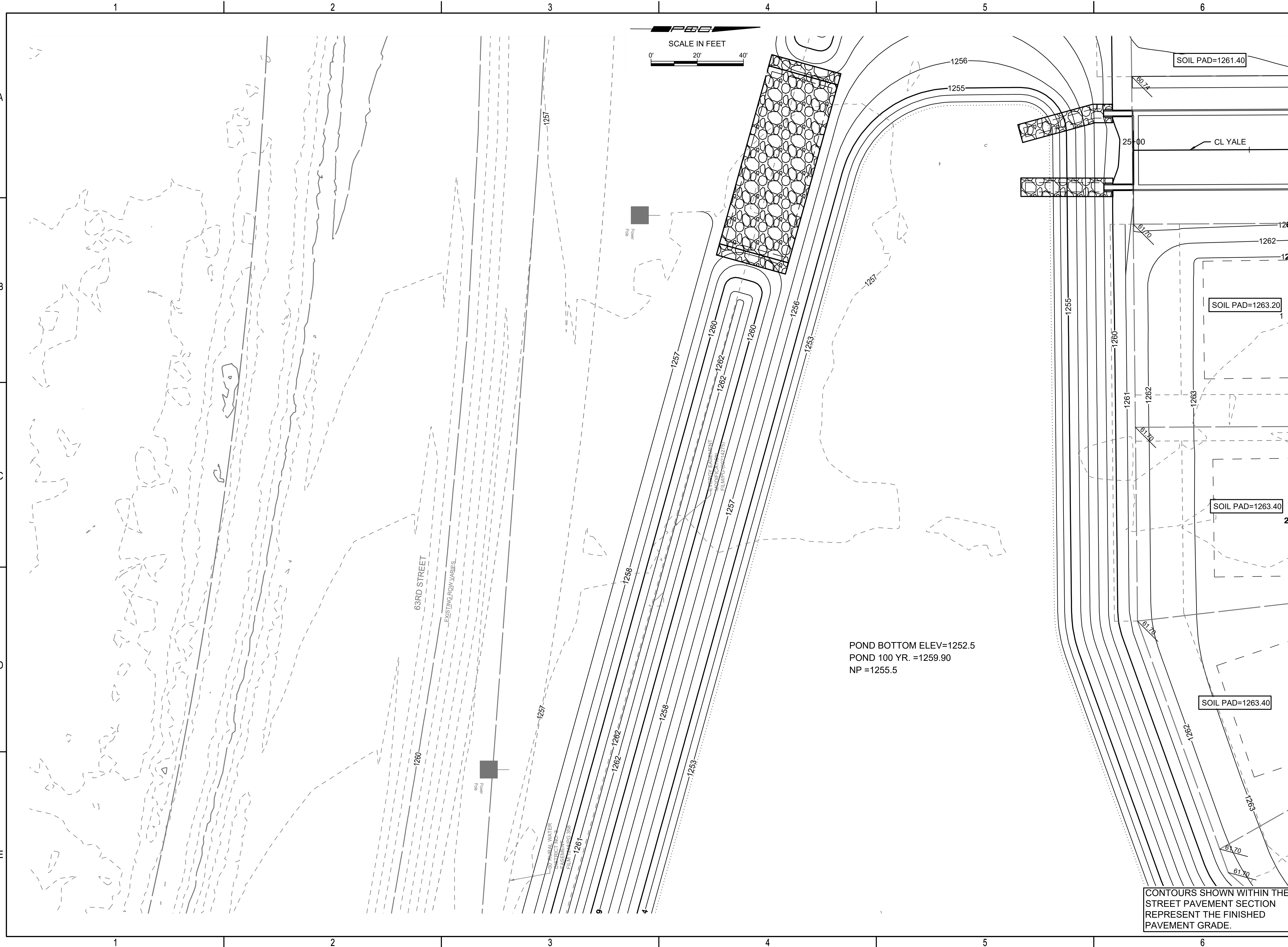
STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

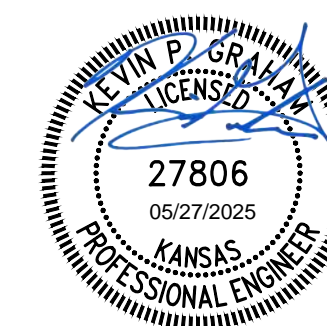
GRADING PLAN-AREA 7

SAVED 5/27/2025 9:59:00 AM BY KEVIN GRAHAM
 PLOTTED 5/27/2025 11:07:47 AM BY KEVIN GRAHAM
 U:\WICHITA-CIVIL\2020\200605004\2PD3_PLANS\0301_SWD\19-200605-005-CG116 GRADING PLAN-AREA 8.DWG



POND BOTTOM ELEV=1252.5
 POND 100 YR. =1259.90
 NP =1255.5

CONTOURS SHOWN WITHIN THE
 STREET PAVEMENT SECTION
 REPRESENT THE FINISHED
 PAVEMENT GRADE.



STORM WATER DRAIN NO. 526
 IMPROVEMENTS

SWANEY FARM ADDITION

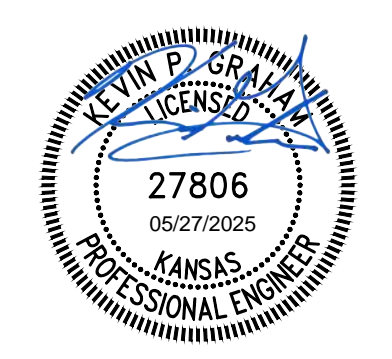
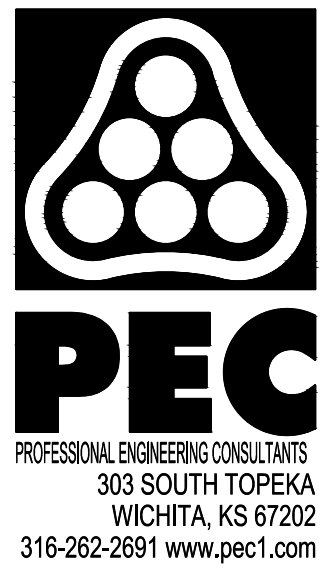
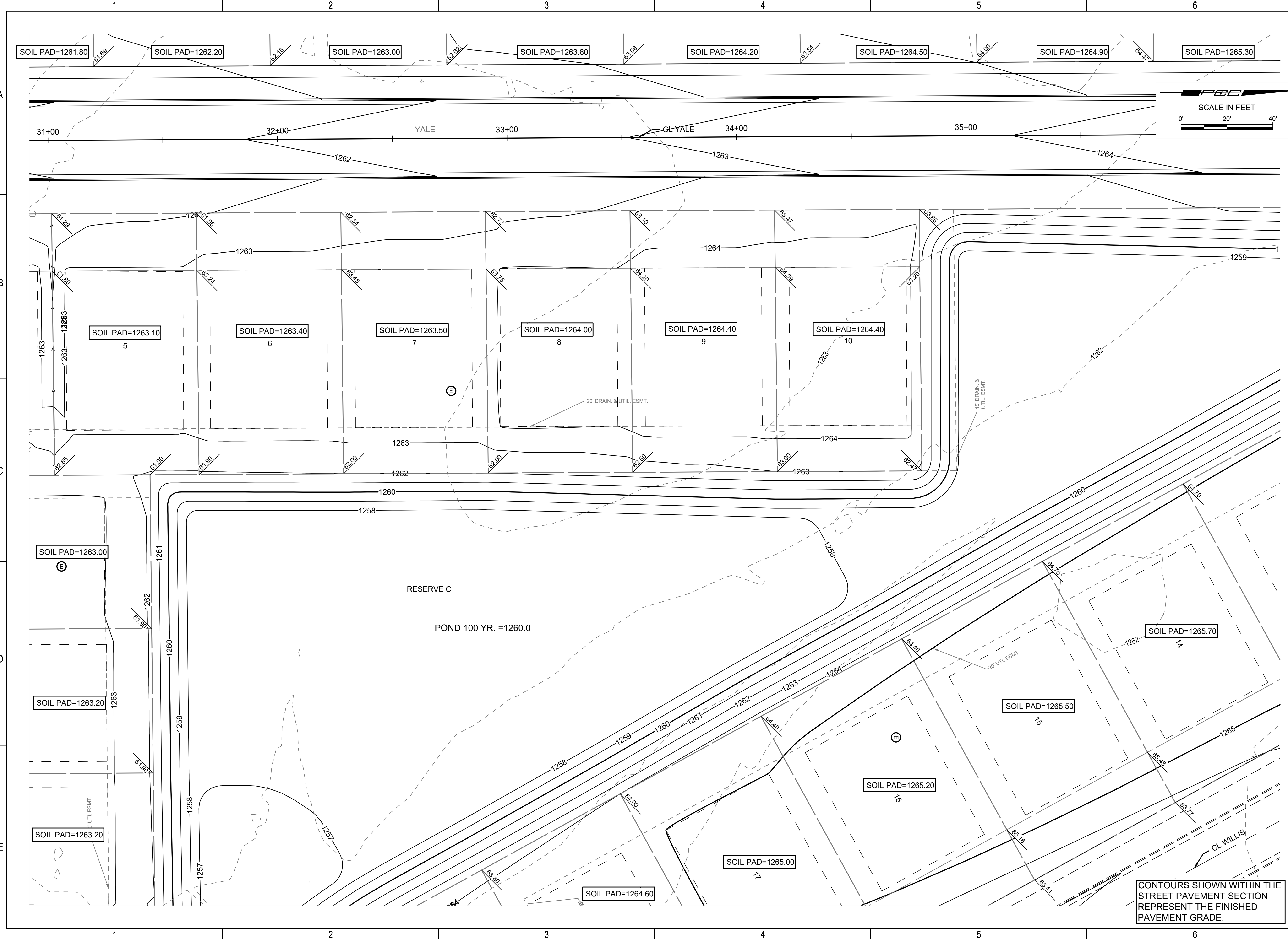
PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:			

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

GRADING PLAN-AREA 8

SAVED 5/27/2025 9:58:17 AM BY KEVIN GRAHAM
 PLOTTED 5/27/2025 11:09:23 AM BY KEVIN GRAHAM
 U:\WICHITA-CIVIL\2020\200605004\2PD3_PLANS\0301_SWD\21-200605-005-CG118 GRADING PLAN-AREA 10.DWG



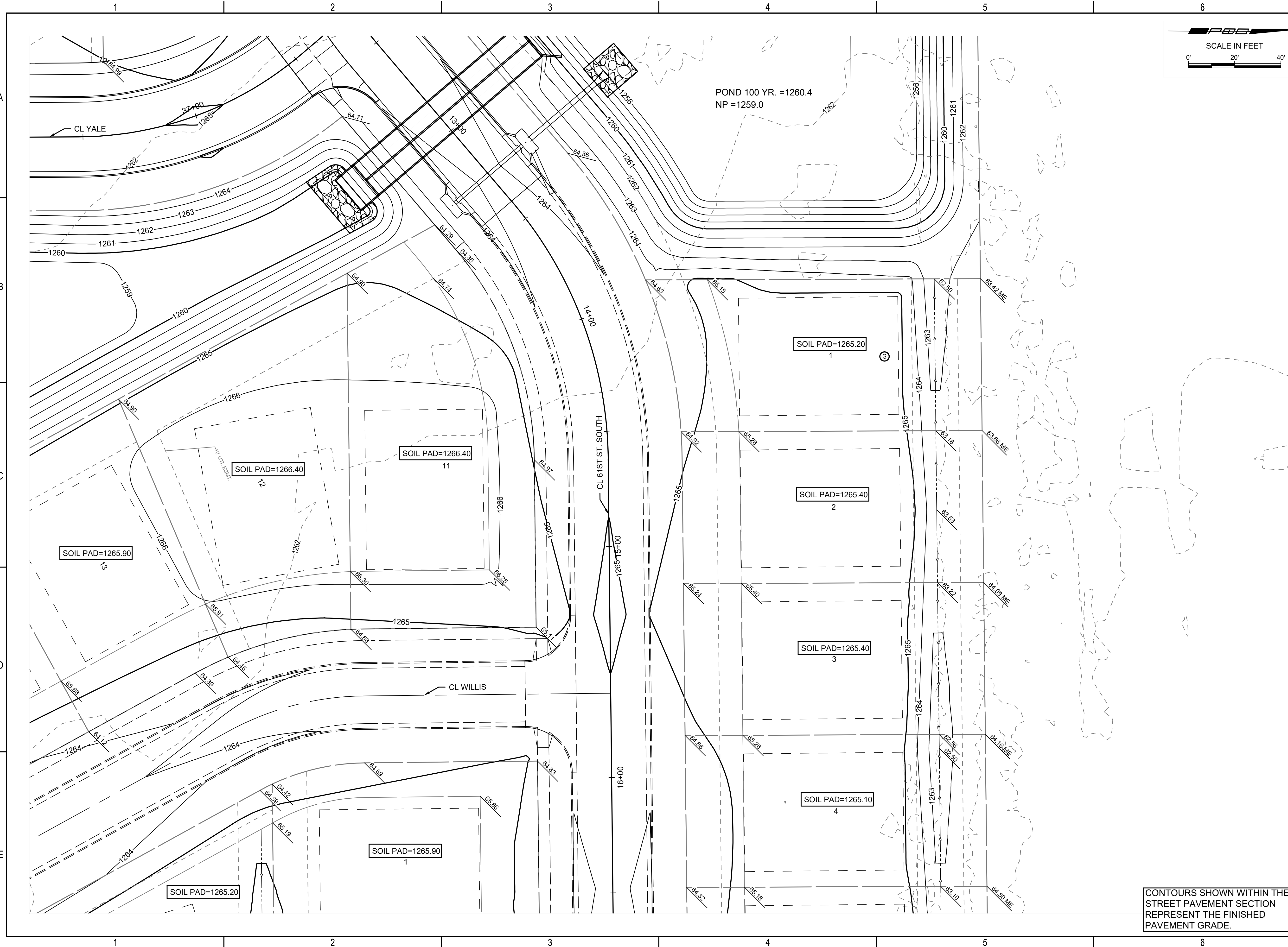
STORM WATER DRAIN NO. 526
 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:					

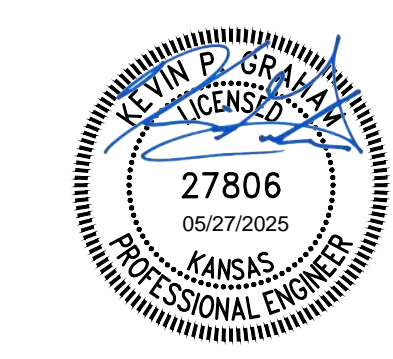
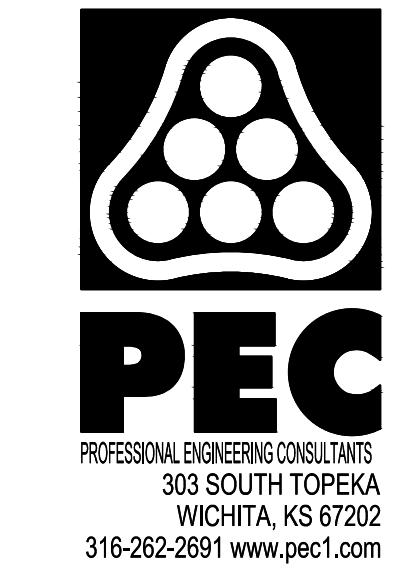
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BSJ
CHECKED BY	KMS

GRADING PLAN-AREA 10

SAVED 12/23/2024 2:58:12 PM BY KEVIN.GRAHAM
 PLOTTED 5/27/2025 11:09:56 AM BY KEVIN.GRAHAM
 U:\WICHITA-CIVIL\2020\200605004\2PD3_PLANS\0301_SWD\22-200605-005-CG119 GRADING PLAN-AREA 11.DWG



CONTOURS SHOWN WITHIN THE
 STREET PAVEMENT SECTION
 REPRESENT THE FINISHED
 PAVEMENT GRADE.



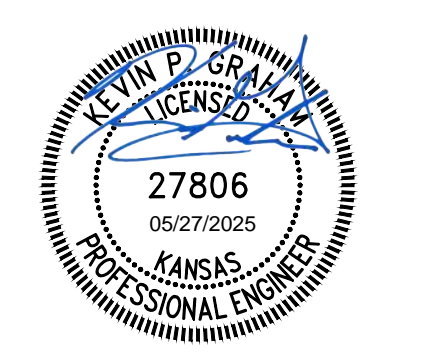
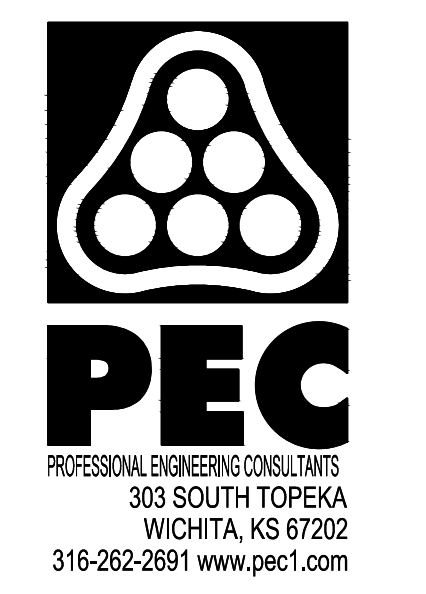
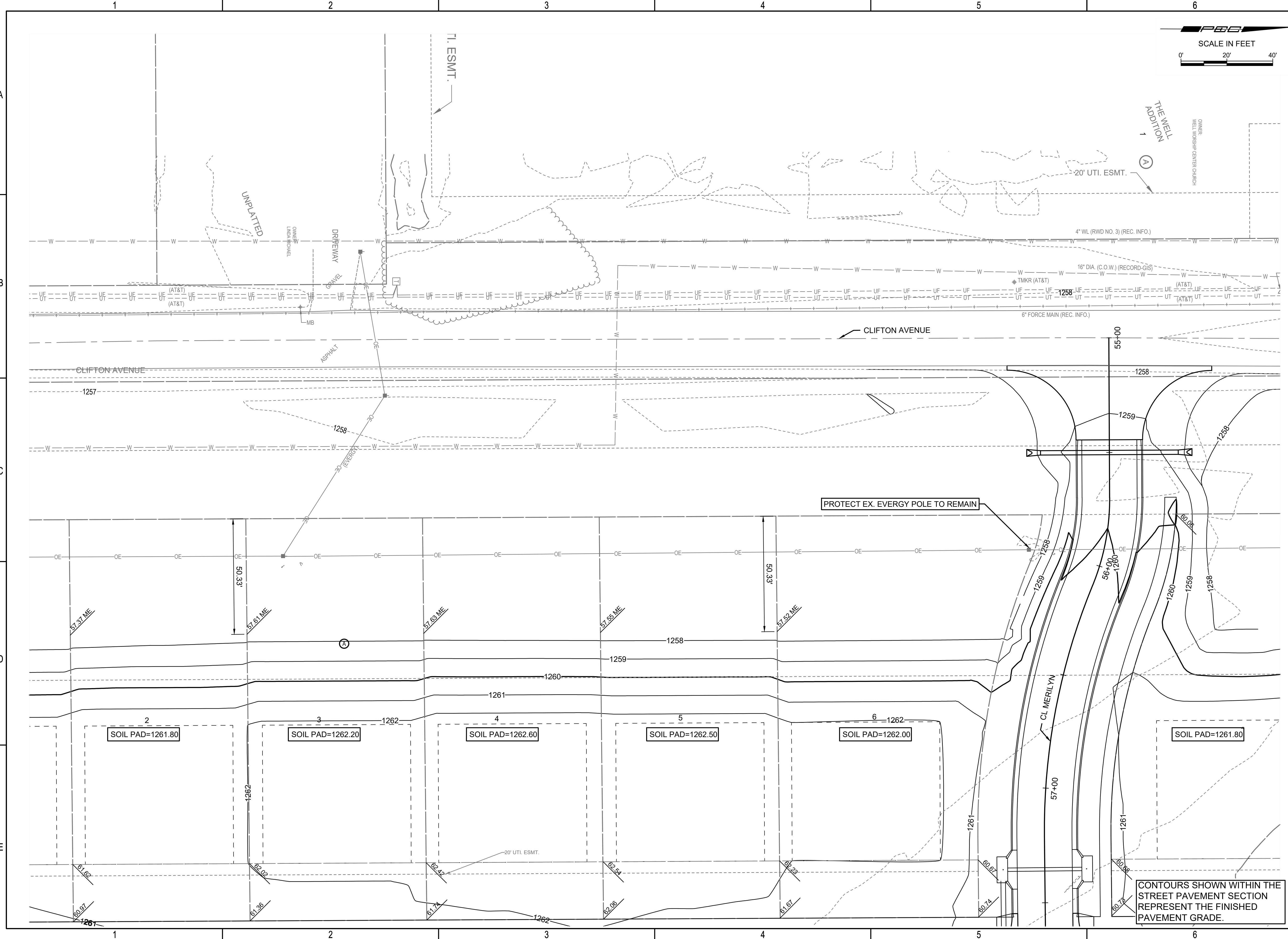
STORM WATER DRAIN NO. 526
 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

GRADING PLAN-AREA 11

SAVED 12/23/2024 2:59:48 PM BY KEVIN.GRAHAM
 PLOTTED 5/27/2025 11:11:00 AM BY KEVIN.GRAHAM
 U:\WICHITA-CIVIL\2020\200605004\2PD3_PLANS\0301_SWD\24-200605-005-CG121 GRADING PLAN-AREA 13.DWG



STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

GRADING PLAN-AREA 13

CONTOURS SHOWN WITHIN THE STREET PAVEMENT SECTION REPRESENT THE FINISHED PAVEMENT GRADE.

PROTECT EX. EVERY POLE TO REMAIN

SOIL PAD=1261.80

SOIL PAD=1262.20

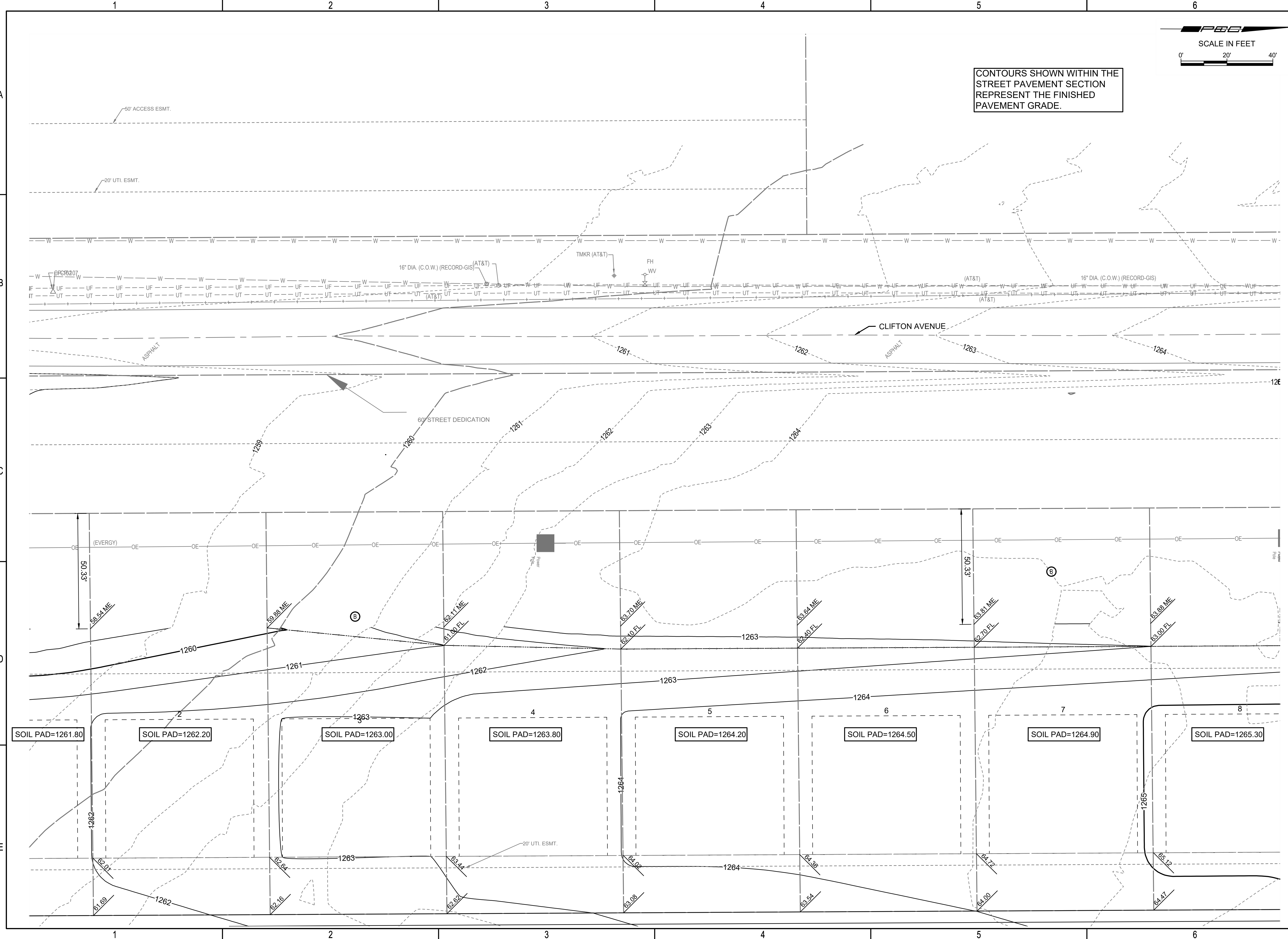
SOIL PAD=1262.60

SOIL PAD=1262.50

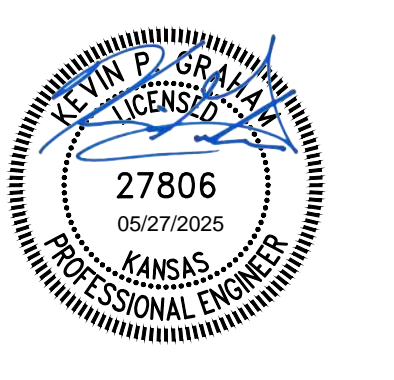
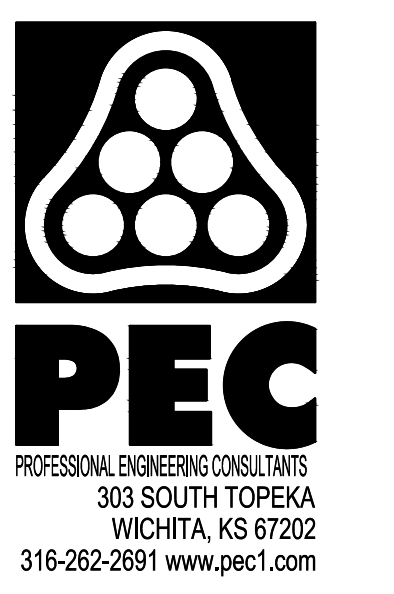
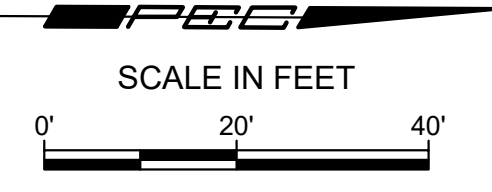
SOIL PAD=1262.00

SOIL PAD=1261.80

SAVED 5/27/2025 9:57:22 AM BY KEVIN.GRAHAM
 PLOTTED 5/27/2025 11:11:36 AM BY KEVIN.GRAHAM
 U:\WICHITA-CIVIL\2020\200605\004\2PD3_PLANS\0301_SWD\25-200605-005-CG122 GRADING PLAN-AREA 14.DWG



CONTOURS SHOWN WITHIN THE STREET PAVEMENT SECTION REPRESENT THE FINISHED PAVEMENT GRADE.



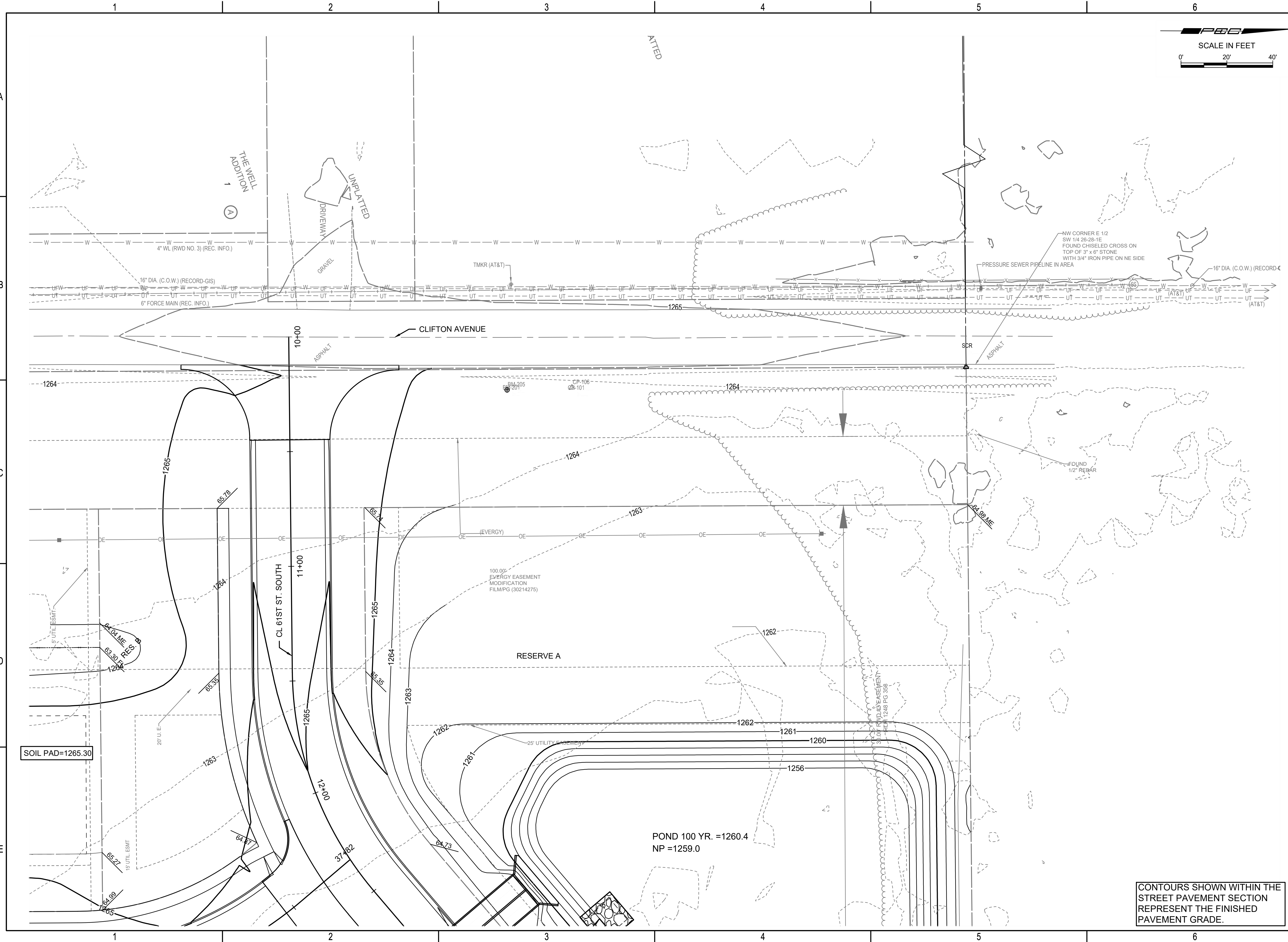
STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:		

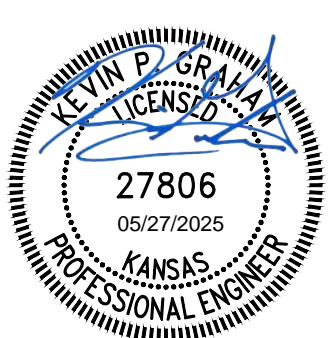
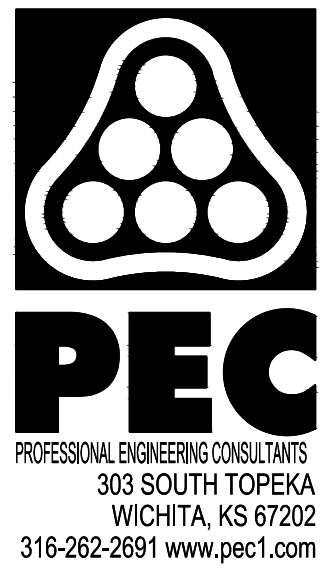
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

GRADING PLAN-AREA 14

SAVED 12/23/2024 2:35:38 PM BY KEVIN.GRAHAM
 PLOTTED 5/27/2025 11:12:12 AM BY KEVIN.GRAHAM
 U:\WICHITA-CIVIL\2020\200605004\2PD3_PLANS\0301_SWD\26-200605-005-CG123 GRADING PLAN-AREA 15.DWG



CONTOURS SHOWN WITHIN THE STREET PAVEMENT SECTION REPRESENT THE FINISHED PAVEMENT GRADE.



STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

SAVED 9/5/2024 7:23:26 AM BY KEVIN GRAHAM
 PLOTTED 5/27/2025 11:12:16 AM BY KEVIN GRAHAM
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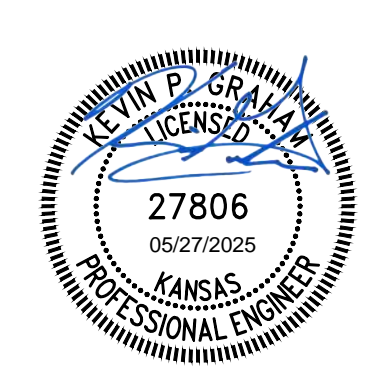
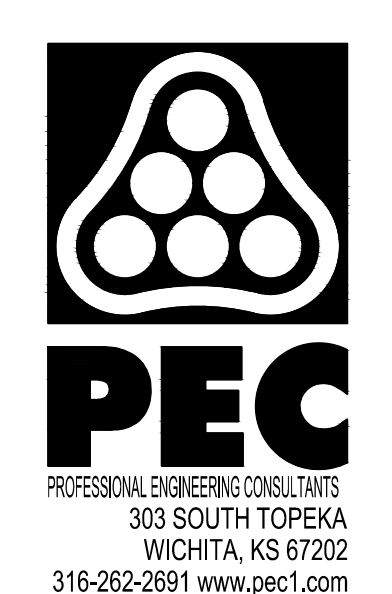
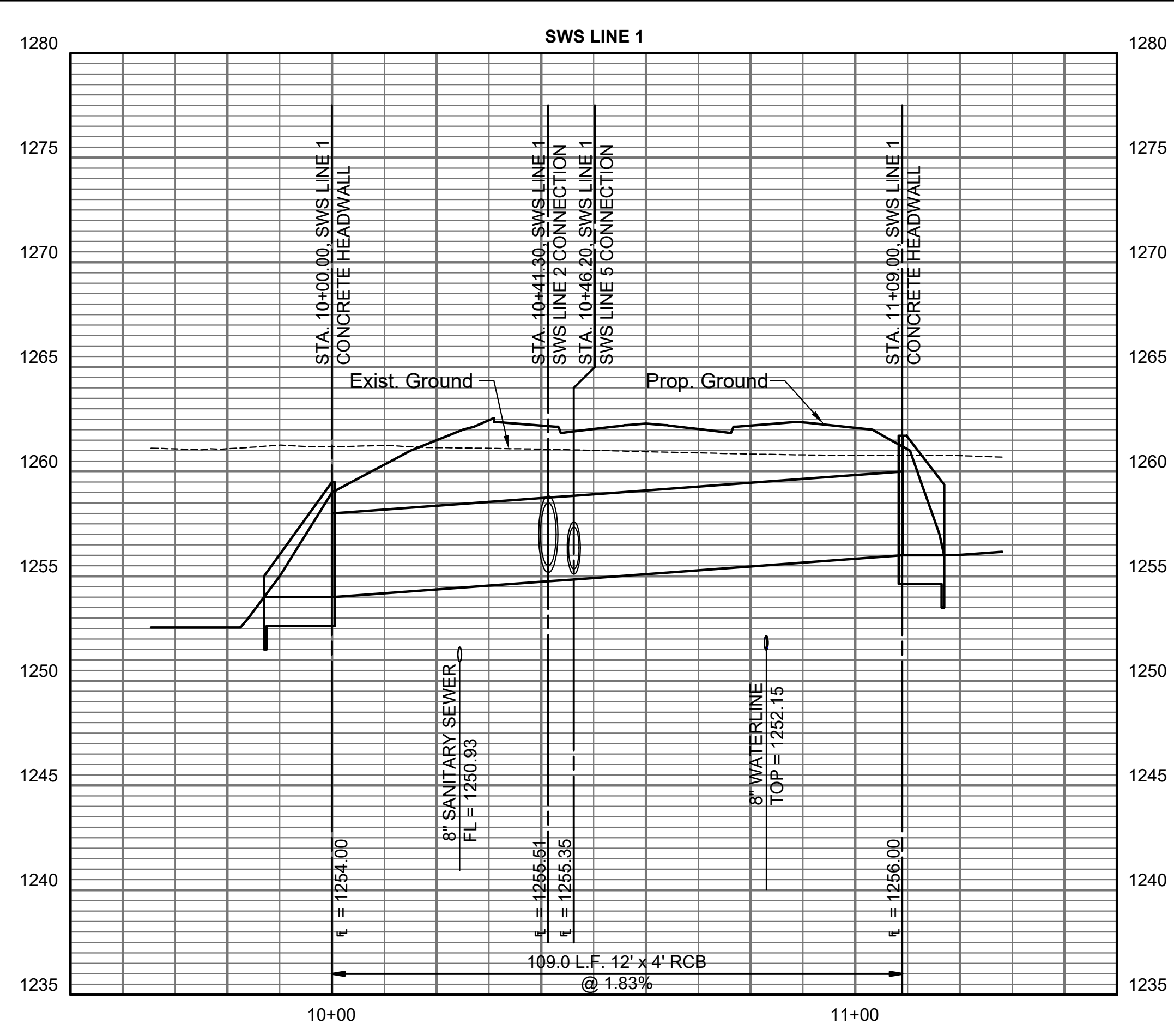
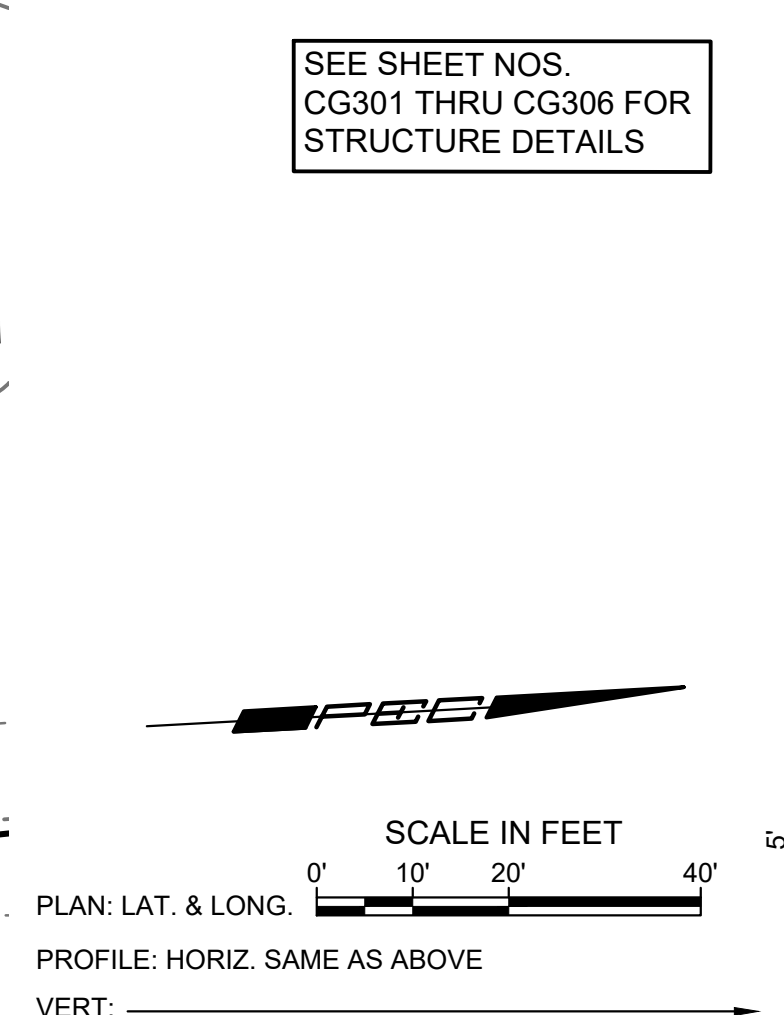
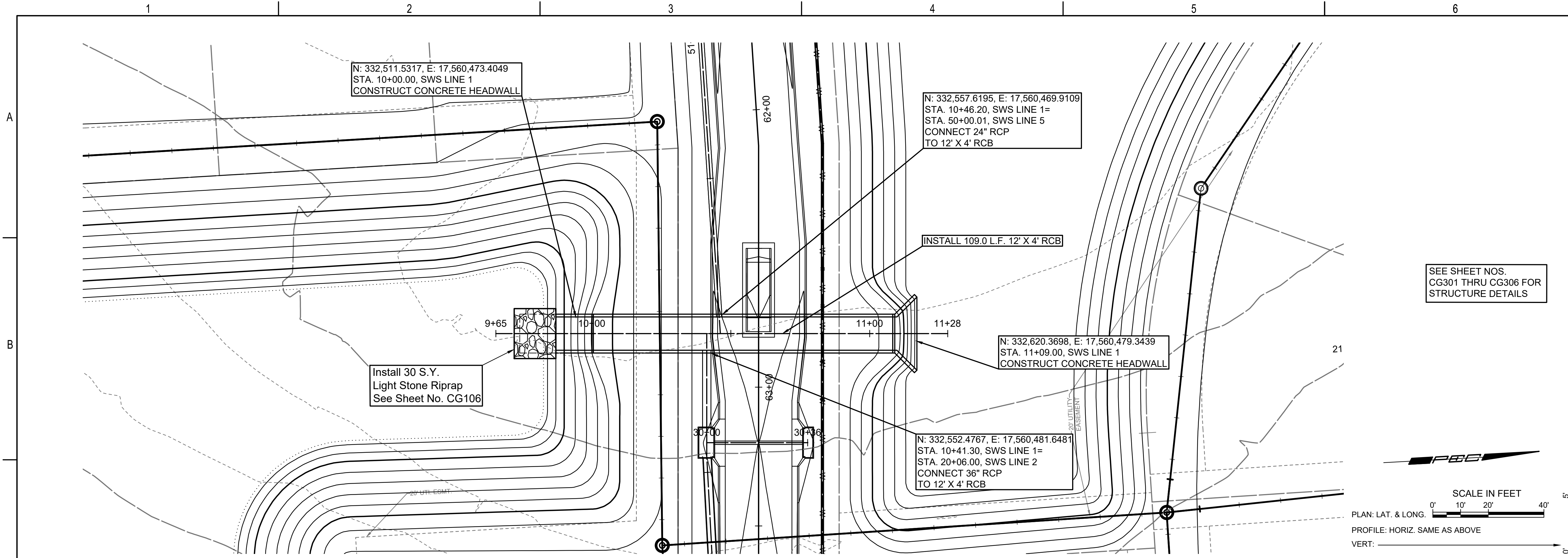
Lot	Location		Exc. Elev.	Fill Elev.	Compaction % and Test Elevation												
	Northing	Eastng			1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268
1A	332107.08	17559899.46	1257.0	1261.4	X	X					X	X	X	X	X	X	X
2A	332184.08	17559899.07	1257.1	1261.8	X	X					X	X	X	X	X	X	X
3A	332261.49	17559898.68	1257.2	1262.2	X	X					X	X	X	X	X	X	X
4A	332338.08	17559898.29	1257.1	1262.6	X	X					X	X	X	X	X	X	X
5A	332415.49	17559897.89	1256.9	1262.5	X	X					X	X	X	X	X	X	X
6A	332492.07	17559897.51	1257.2	1262.0	X	X					X	X	X	X	X	X	X
1B	332651.14	17559896.70	1258.7	1261.8	X	X	X				X	X	X	X	X	X	X
2B	332727.99	17559896.33	1260.4	1262.2	X	X	X	X			X	X	X	X	X	X	X
3B	332804.99	17559895.94	1262.5	1263.0	X	X	X	X	X		X	X	X	X	X	X	X
4B	332881.99	17559895.55	1263.1	1263.8	X	X	X	X	X	X		X	X	X	X	X	X
5B	332958.99	17559895.16	1263.2	1264.2	X	X	X	X	X	X	X		X	X	X	X	X
6B	333035.98	17559894.77	1263.2	1264.5	X	X	X	X	X	X	X	X		X	X	X	X
7B	333112.98	17559894.38	1263.8	1264.9	X	X	X	X	X	X	X	X		X	X	X	X
8B	333189.98	17559893.99	1263.3	1265.3	X	X	X	X	X	X	X	X		X	X	X	X
1C	332135.42	17560059.89	1256.5	1263.2	X							X	X	X	X	X	X
2C	332139.74	17560145.71	1256.5	1263.4	X							X	X	X	X	X	X
3C	332147.34	17560223.16	1256.8	1263.4	X							X	X	X	X	X	X
4C	332193.45	17560295.35	1258.8	1264.1	X	X	X					X	X	X	X	X	X
5C	332261.23	17560340.99	1259.2	1264.3	X	X	X	X				X	X	X	X	X	X
6C	332341.49	17560352.68	1259.8	1264.2	X	X	X	X				X	X	X	X	X	X
7C	332419.41	17560355.85	1260.7	1264.2	X	X	X	X	X			X	X	X	X	X	X
8C	332496.98	17560357.18	1260.9	1264.0	X	X	X	X	X	X		X	X	X	X	X	X
9C	332477.97	17560594.24	1259.3	1264.3	X	X	X	X				X	X	X	X	X	X
10C	332478.87	17560658.90	1259.8	1264.4	X	X	X	X				X	X	X	X	X	X
11C	332479.81	17560724.00	1259.9	1264.4	X	X	X	X	X			X	X	X	X	X	X
12C	332481.33	17560803.17	1259.8	1264.5	X	X	X	X				X	X	X	X	X	X
13C	332519.65	17560879.44	1260.0	1264.6	X	X	X	X	X			X	X	X	X	X	X
14C	332582.30	17560938.90	1260.8	1264.8	X	X	X	X	X			X	X	X	X	X	X
15C	332649.32	17560964.40	1261.8	1264.8	X	X	X	X	X	X		X	X	X	X	X	X
16C	332730.10	17560968.51	1262.9	1264.3	X	X	X	X	X	X		X	X	X	X	X	X
17C	332794.87	17560968.06	1263.4	1264.3	X	X	X	X	X	X	X		X	X	X	X	X
18C	332859.43	17560967.53	1263.5	1264.3	X	X	X	X	X	X	X	X		X	X	X	X
19C	332924.99	17560967.54	1263.3	1264.6	X	X	X	X	X	X	X	X		X	X	X	X
20C	332989.92	17560968.74	1263.7	1265.0	X	X	X	X	X	X	X	X	X		X	X	X
21C	333054.91	17560968.05	1263.7	1265.5	X	X	X	X	X	X	X	X	X	X		X	X
22C	333119.91	17560967.35	1263.7	1265.5	X	X	X	X	X	X	X	X	X	X	X		X
23C	333184.91	17560966.65	1264.1	1265.5	X	X	X	X	X	X	X	X	X	X	X	X	
24C	333249.90	17560965.95	1264.7	1265.9	X	X	X	X	X	X	X	X	X	X	X	X	X
25C	333314.90	17560965.25	1265.4	1266.4	X	X	X	X	X	X	X	X	X	X	X	X	X
26C	333379.47	17560965.95	1266.1	1266.8	X	X	X	X	X	X	X	X	X	X	X	X	X
1D	332305.55	17560075.60	1257.1	1262.6	X	X					X	X	X	X	X	X	X
2D	332375.71	17560076.76	1258.1	1262.6	X	X	X				X	X	X	X	X	X	X
3D	332438.72	17560076.44	1259.1	1262.4	X	X	X	X			X	X	X	X	X	X	X
4D	332501.72	17560076.12	1260.0	1262.6	X	X	X	X	X		X	X	X	X	X	X	X
5D	332496.22	17560180.81	1262.6	1263.0	X	X	X	X	X	X	X	X	X	X	X	X	X
6D	332418.70	17560181.21	1261.8	1263.6	X	X	X	X	X	X	X	X	X	X	X	X	X
7D	332340.70	17560181.60	1259.7	1263.5	X	X	X	X	X	X	X	X	X	X	X	X	X
1E	332662.27	17560291.25	1261.7	1263.2	X	X	X	X	X	X	X	X	X	X	X	X	X
2E	332661.77	17560229.11	1262.3	1263.2	X	X	X	X	X	X	X	X	X	X	X	X	X
3E	332660.75	17560165.28	1262.3	1263.0	X	X	X	X	X	X	X	X	X	X	X	X	X
4E	332640.69	17560075.56	1262.2	1263.2	X	X	X	X	X	X	X	X	X	X	X	X	X
5E	332704.11	17560075.56	1262.2	1263.1	X	X	X	X	X	X	X	X	X	X	X	X	X
6E	332766.84	17560074.79	1262.0	1263.4	X	X	X	X	X	X	X	X	X	X	X	X	X
7E	332829.94	17560074.40	1262.2	1263.5	X	X	X	X	X	X	X	X	X	X	X	X	X

EXCAVATION ELEVATION INCLUDES TOP SOIL STRIPPING.

- COMPACTION TEST REQUIRED
- X COMPACTION TEST NOT REQUIRED

Lot	Location		Exc. Elev.	Fill Elev.	Compaction % and Test Elevation												
	Northing	Eastng			1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268
12E	333300.23	17560136.76	1261.5	1266.4	X	X	X	X	X	X	X	X	X	X	X	X	X
13E	333227.36	17560165.83	1261.3	1265.9	X	X	X	X	X	X	X	X	X	X	X	X	X
14E	333163.17	17560202.28	1261.4	1265.7	X	X	X	X	X	X	X	X	X	X	X	X	X
15E	333102.26	17560235.41	1261.3	1265.5	X	X	X	X	X	X	X	X	X	X	X	X	X
16E	333039.63	17560268.47	1261.1	1265.2	X	X	X	X	X	X	X	X	X	X	X	X	X
17E	332978.93	17560302.30	1260.9	1265.0	X	X	X	X	X	X	X	X	X	X	X	X	X
18E	332914.91	17560336.98	1260.1	1264.6	X	X	X	X	X	X	X	X	X	X	X	X	X
19E	332851.96	17560375.95	1259.8	1264.3	X	X	X	X	X	X	X	X	X	X	X	X	X
20E	332802.40	17560427.52	1259.8	1264.2	X	X	X	X	X	X	X	X	X	X	X	X	X
21E	332772.43	17560496.94	1259.4	1264.1	X	X	X	X	X	X	X	X	X	X	X	X	X
22E	332764.91	17560581.81	1260.1	1264.1	X	X	X	X	X	X	X	X	X	X	X	X	X
23E	332765.60	17560652.31	1260.4	1264.6	X	X	X	X	X	X	X	X	X	X	X	X	X
24E	332766.17	17560725.72	1261.1	1264.6	X	X	X	X	X	X	X	X	X	X	X	X	X
25E	332767.05	17560799.71	1261.9	1264.6	X	X	X	X	X	X	X	X	X	X	X	X	X
26E	332852.12	17560733.61	1259.9	1265.0	X	X	X	X	X	X	X	X	X	X	X	X	X
27E	332856.41	17560867.40	1259.6	1265.0	X	X	X	X	X	X	X	X	X	X	X	X	X
28E	332855.65	17560966.14	1259.5	1264.6	X	X	X	X	X	X	X	X	X	X	X	X	X
1F	333357.74	17560297.63	1261.9	1265.9	X	X	X	X	X	X	X	X	X	X	X	X	X
2F	333358.59	17560375.08	1262.1	1265.8	X	X	X	X	X	X	X	X	X	X	X	X	X
3F	333359.27	17560447.52	1262.5	1265.8	X	X	X	X	X	X	X	X	X	X	X	X	X
4F	333360.28	17560519.52	1262.6	1265.9	X	X	X	X	X	X	X	X	X	X	X	X	X
5F	333361.13	17560593.76	1263.0	1266.3	X	X	X	X	X	X	X	X	X	X	X	X	X
6F	333361.41	17560678.73	1263.1	1266.9	X	X	X	X	X	X	X	X	X	X	X	X	X
7F	333377.26	17560783.04	1263.6	1266.8	X	X	X	X	X	X	X	X	X	X	X	X	X
8F	333310.65	17560784.20	1263.4	1266.8	X	X	X	X	X	X	X	X	X	X	X	X	X
9F	333240.65	17560784.84	1263.2	1266.3	X	X	X	X	X	X	X	X	X	X	X	X	X
10F	333174.01	17560785.59	1262.9	1265.5	X	X	X	X	X	X	X	X	X	X	X	X	X
11F	333105.53	17560786.13	1262.6	1264.9	X	X	X	X	X	X	X	X	X	X	X	X	X
12F	333037.40	17560787.18	1262.4	1264.9	X	X	X	X	X	X	X	X	X	X	X	X	X
13F	332944.93	17560807.24	1262.3	1263.9	X	X	X	X	X	X	X	X	X	X	X	X	X
14F	332944.21	17560740.21	1261.8	1264.3	X	X	X	X	X	X	X	X	X	X	X	X	X
15F	332943.46	17560670.54	1261.3	1264.3	X	X	X	X	X	X	X	X	X	X	X	X	X
16F	332942.71	17560600.29	1261.2	1264.3	X	X	X	X	X	X	X	X	X	X	X	X	X
17F	333071.63	17560652.32	1262.0	1265.8	X	X	X	X	X	X	X	X	X	X	X	X	X
18F	333149.04	17560674.41	1262.5	1266.3	X	X	X	X	X	X	X	X	X	X	X	X	X
19F	333223.72	17560636.52															

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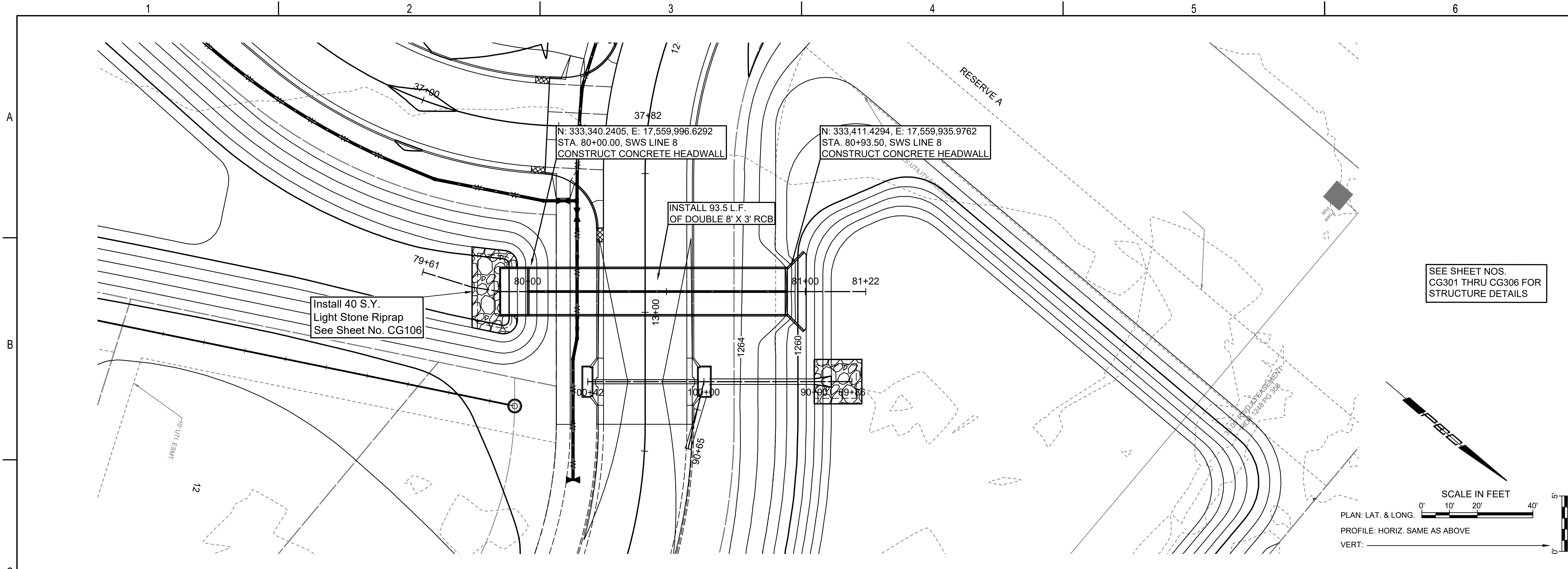


STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

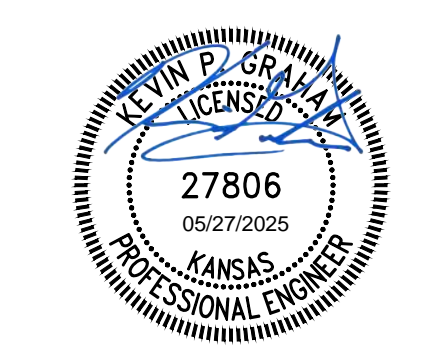
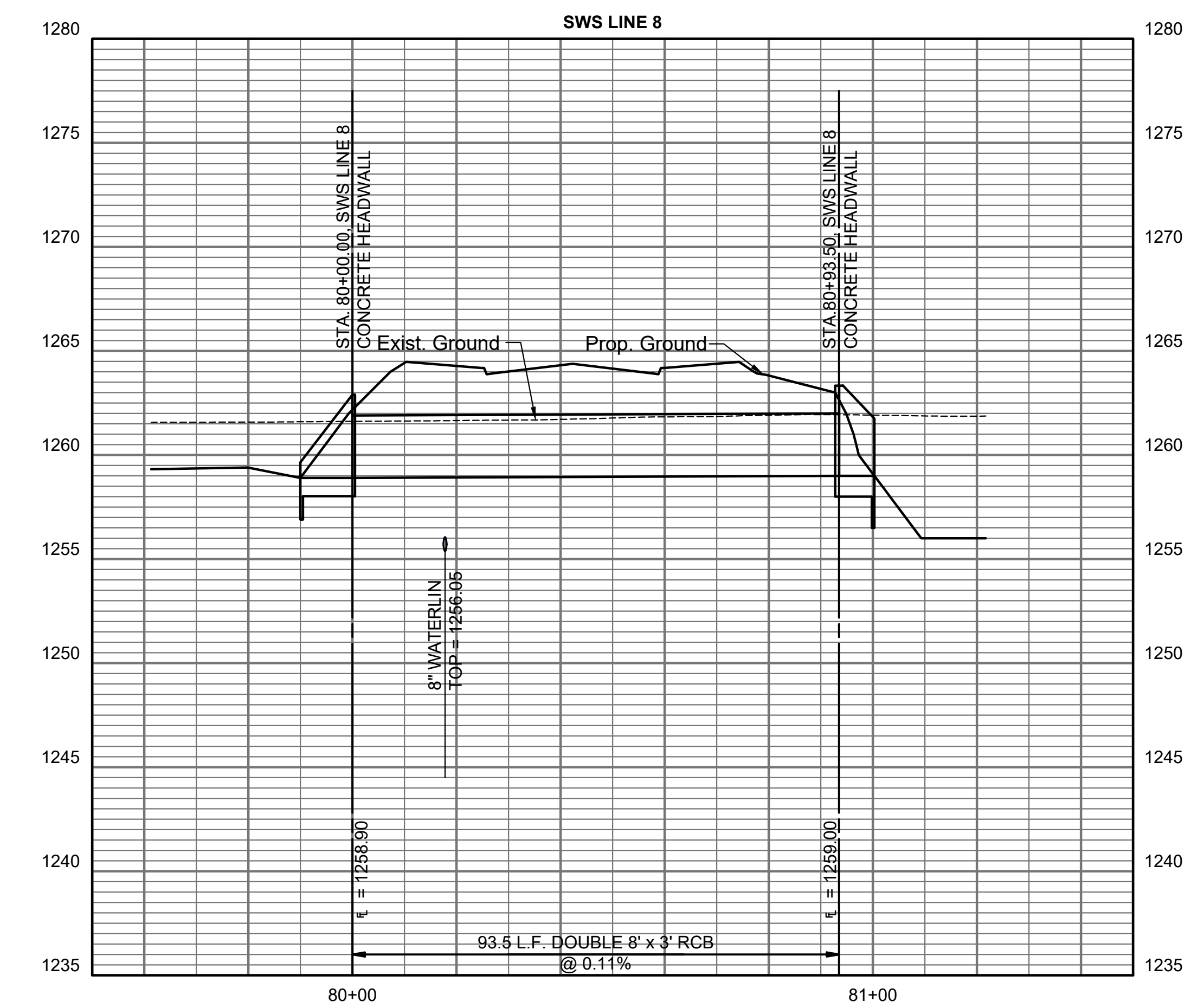
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JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

PLAN AND PROFILE - SWS LINE 1
CG201
 28 OF 44

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SEE SHEET NOS.
 CG301 THRU CG306 FOR
 STRUCTURE DETAILS



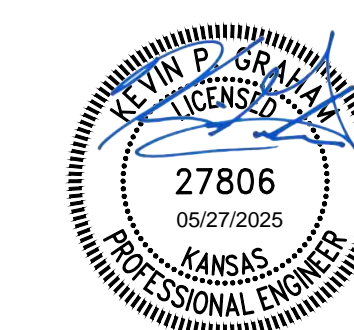
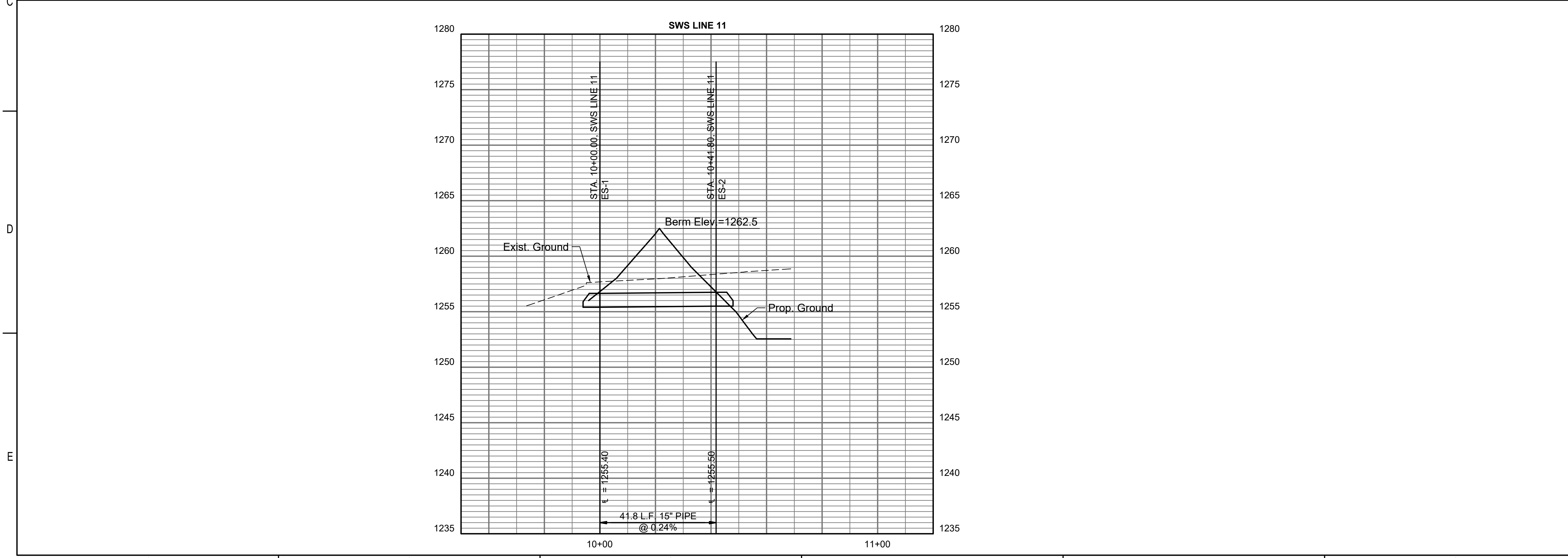
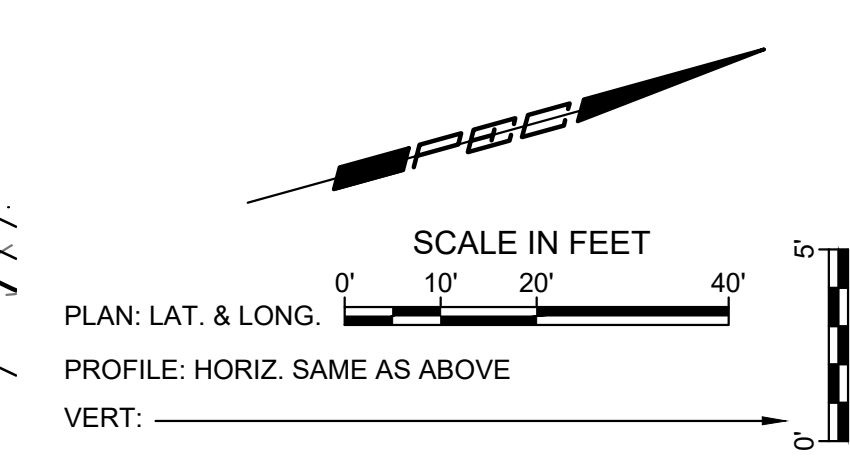
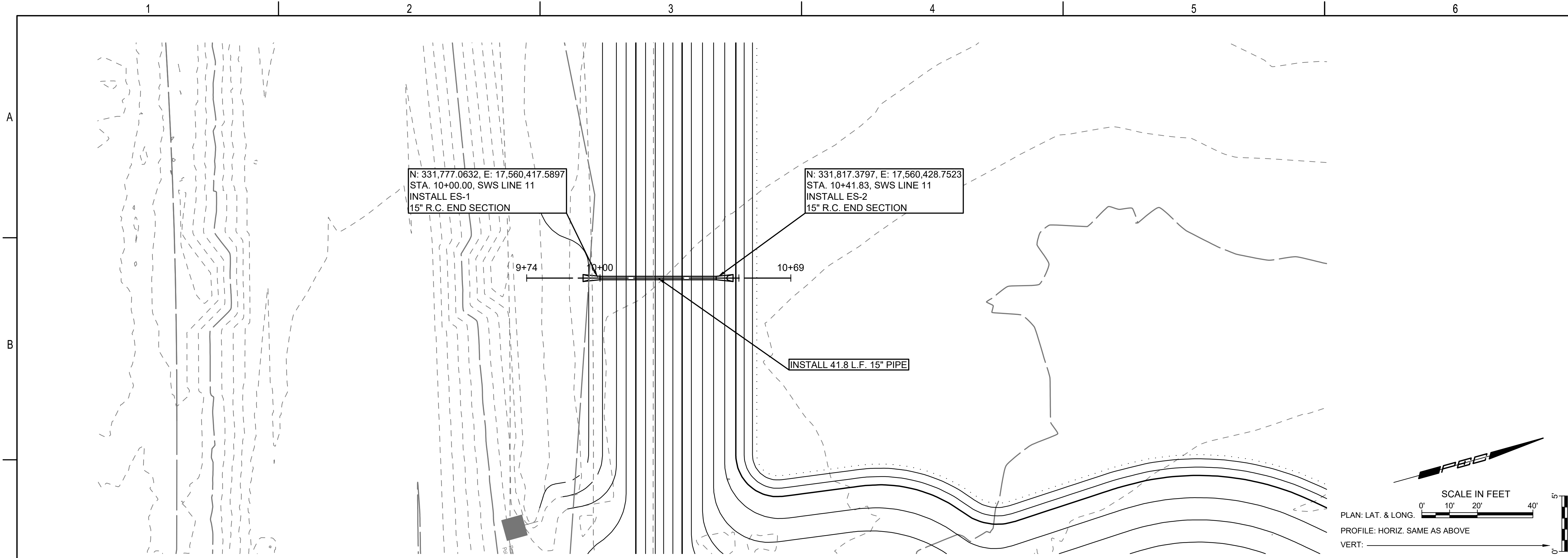
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 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

PLAN AND PROFILE -
 SWS LINE 8
CG202
 29 OF 44

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STORM WATER DRAIN NO. 526
 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

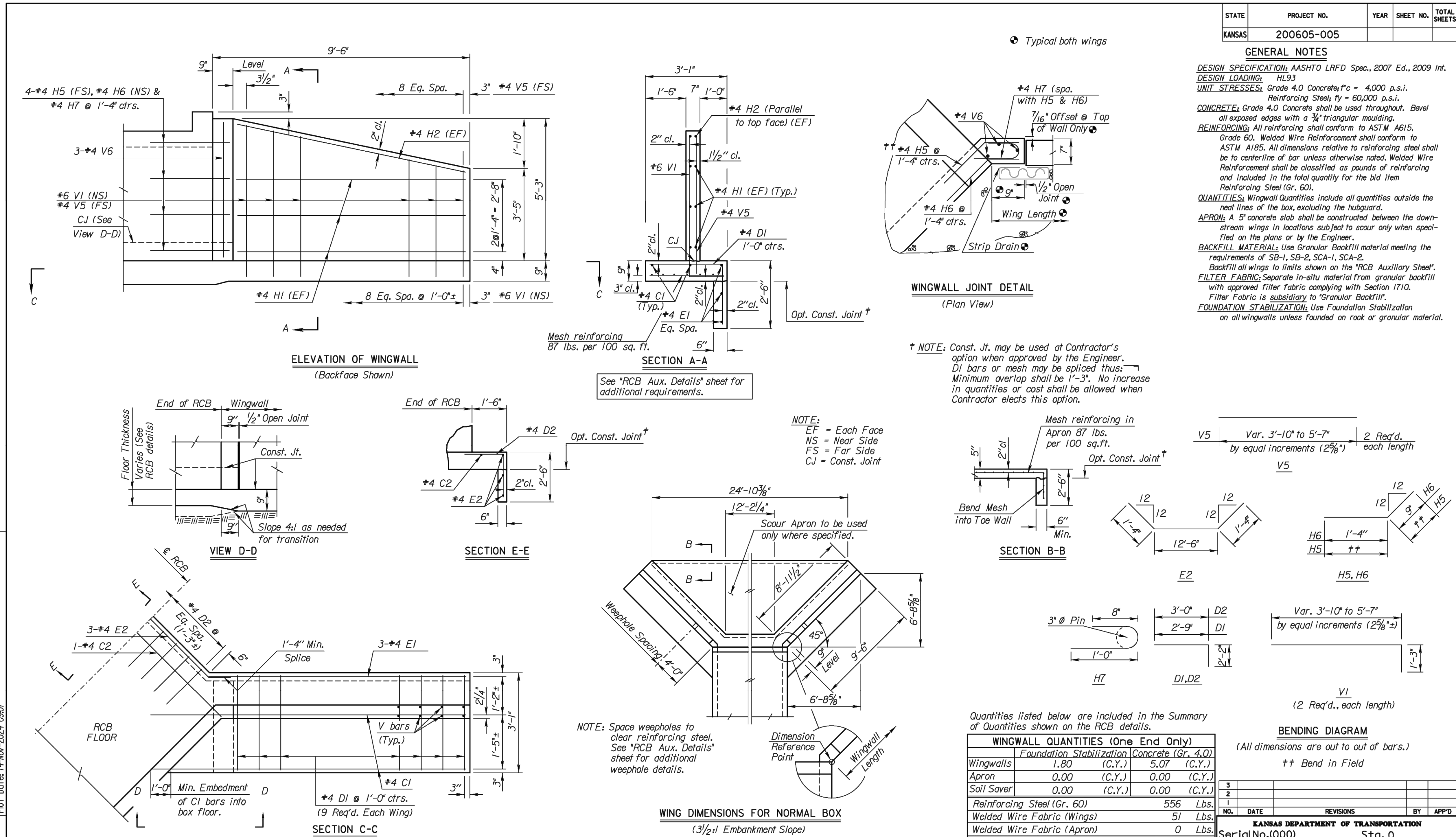
Issue:	

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DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

PLAN AND PROFILE -
 SWS LINE 11
CG203
 30 OF 44

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 LINE 1.DWG

Plotted By: darrins
 Plot Location:
 File: 2024-11-14_200605-005-11214.dgn
 Plot Date: 14-NOV-2024 09:01



NOTE: Reinforcing Bar List is for both wings at one end of box only.

0° Skew	No.	*4C1	*4D1	*4E1	*4C2	*4D2	*4E2	*6V1	*4H1	*4H2	*4H5	*4H6	*4H7	*4V5	*4V6
	Length	11'-7"	4'-11"	8'-9"	13'-4"	5'-2"	15'-2"	*	8'-4"	8'-6"	1'-10"	2'-1"	1'-9"	*	5'-0"

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	200605-005			

GENERAL NOTES

DESIGN SPECIFICATION: AASHTO LRFD Spec., 2007 Ed., 2009 Int.

DESIGN LOADING: HL93

UNIT STRESSES: Grade 4.0 Concrete; $f'_c = 4,000$ p.s.i.
 Reinforcing Steel; $f_y = 60,000$ p.s.i.

CONCRETE: Grade 4.0 Concrete shall be used throughout. Bevel all exposed edges with a 3/4" triangular mauling.

REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded Wire Reinforcement shall conform to ASTM A185. All dimensions relative to reinforcing steel shall be to centerline of bar unless otherwise noted. Welded Wire Reinforcement shall be classified as pounds of reinforcing and included in the total quantity for the bid item Reinforcing Steel (Gr. 60).

QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, excluding the hubguard.

APRON: A 5" concrete slab shall be constructed between the downstream wings in locations subject to scour only when specified on the plans or by the Engineer.

BACKFILL MATERIAL: Use Granular Backfill material meeting the requirements of SB-1, SB-2, SCA-1, SCA-2.

Backfill all wings to limits shown on the "RCB Auxiliary Sheet".

FILTER FABRIC: Separate in-situ material from granular backfill with approved filter fabric complying with Section 1710. Filter Fabric is subsidiary to "Granular Backfill".

FOUNDATION STABILIZATION: Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.

† NOTE: Const. Jt. may be used at Contractor's option when approved by the Engineer. DI bars or mesh may be spliced thus: Minimum overlap shall be 1'-3". No increase in quantities or cost shall be allowed when Contractor elects this option.

NOTE:
 EF = Each Face
 NS = Near Side
 FS = Far Side
 CJ = Const. Joint

NOTE: Space weepholes to clear reinforcing steel. See "RCB Aux. Details" sheet for additional weephole details.

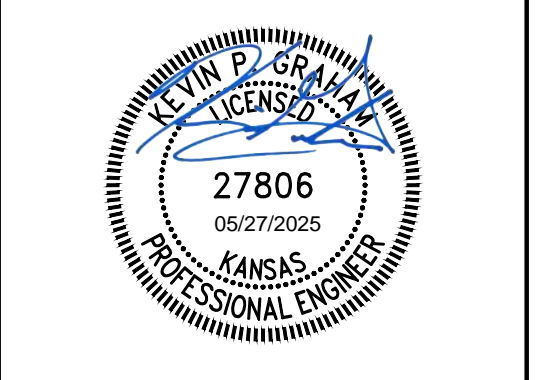
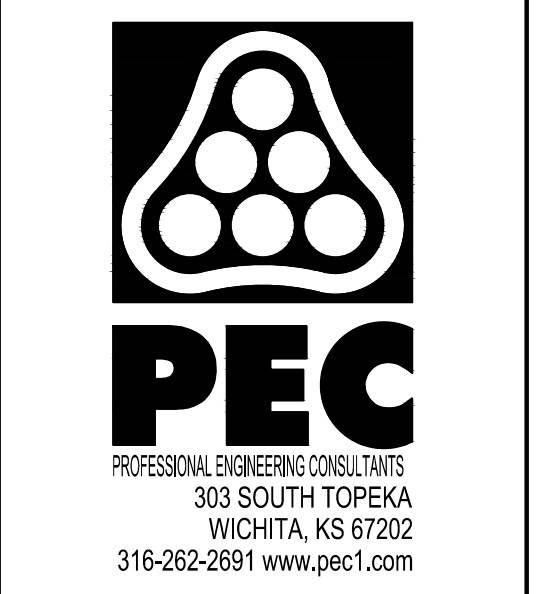
(All dimensions are out to out of bars.)
 †† Bend in Field

KANSAS DEPARTMENT OF TRANSPORTATION
 Ser 1al No. (000) St.a. 0
 FLARED WINGWALLS
 4 ft Rise (0°SKEW)

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

BR 10.00.04 Sedgwick Co.
 Terry L. Fleck
 DESIGNED DETAILD QUANTITIES CADD
 DESIGN CK. DETAIL CK. QUAN. CK. CADD CK.

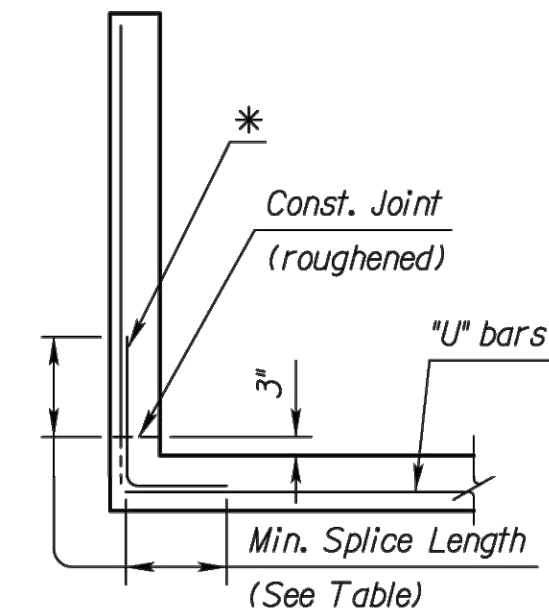
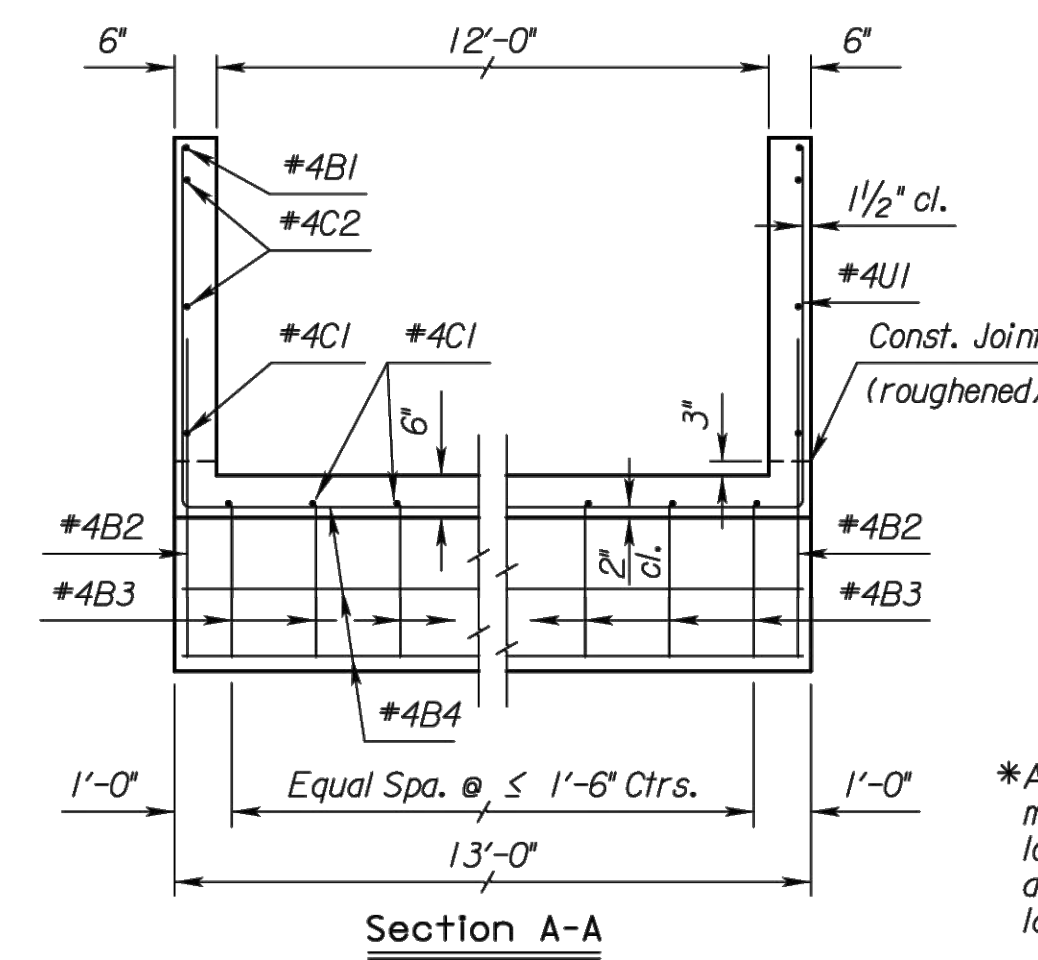
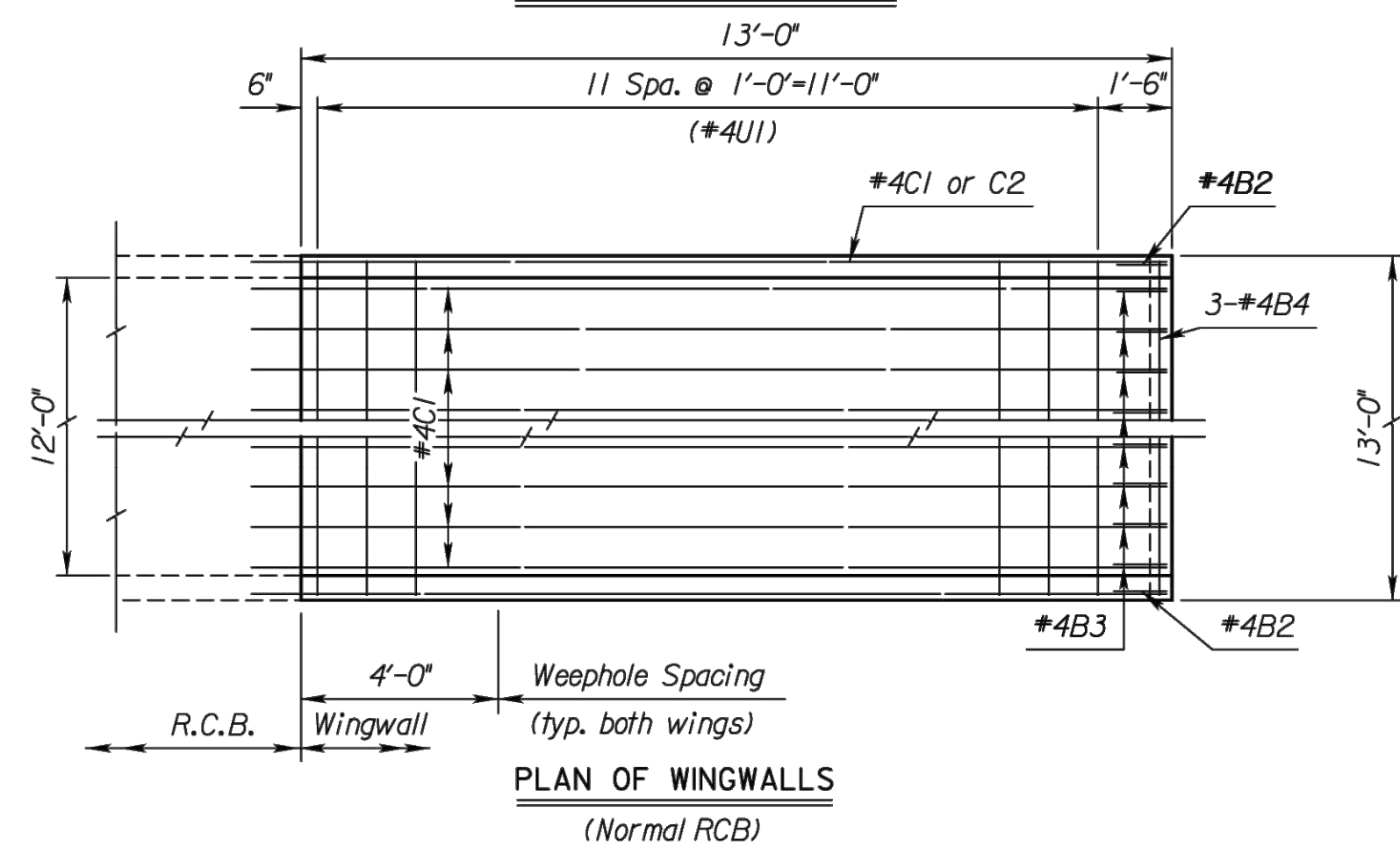
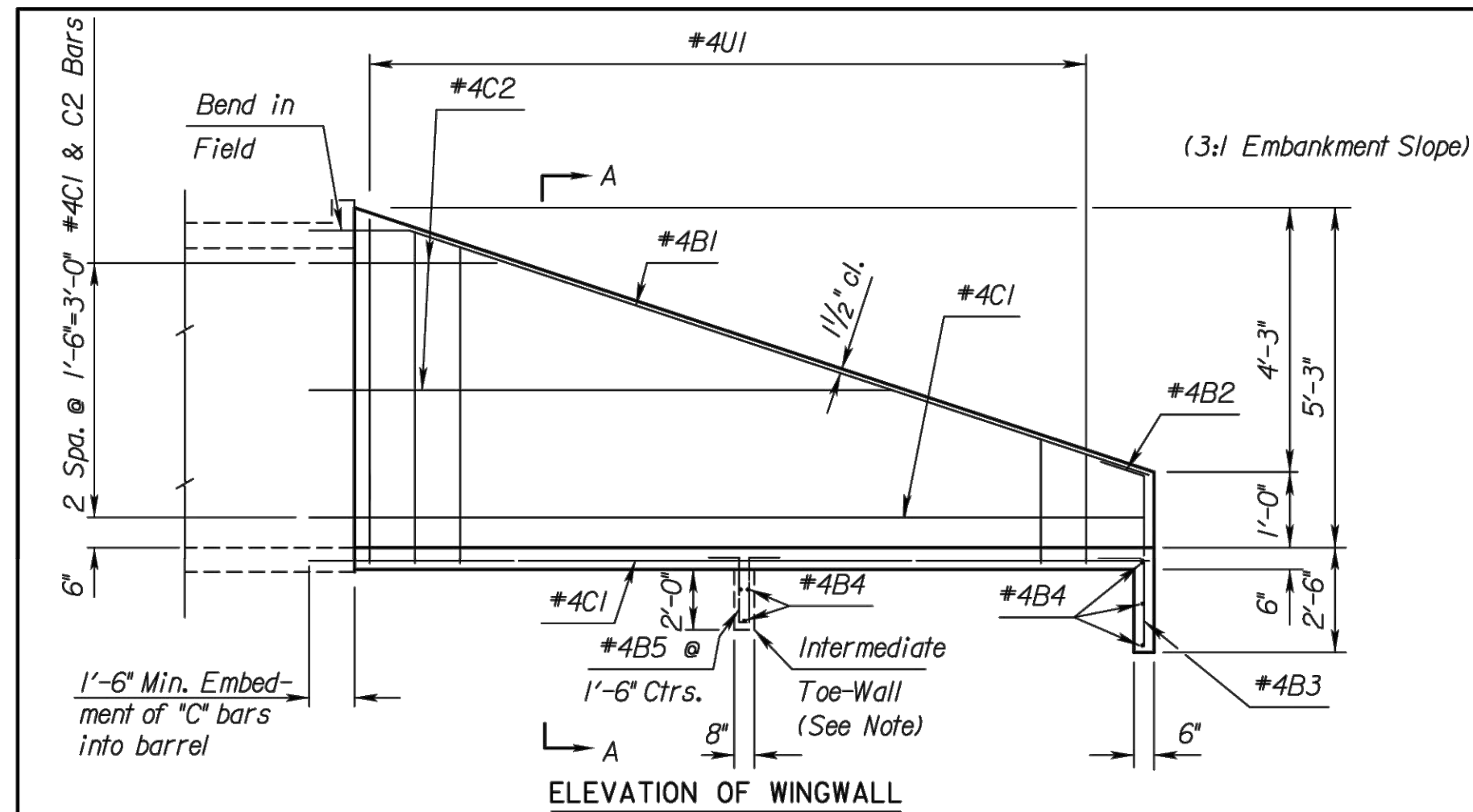
STORM WATER DRAIN NO. 526
 IMPROVEMENTS
 SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570



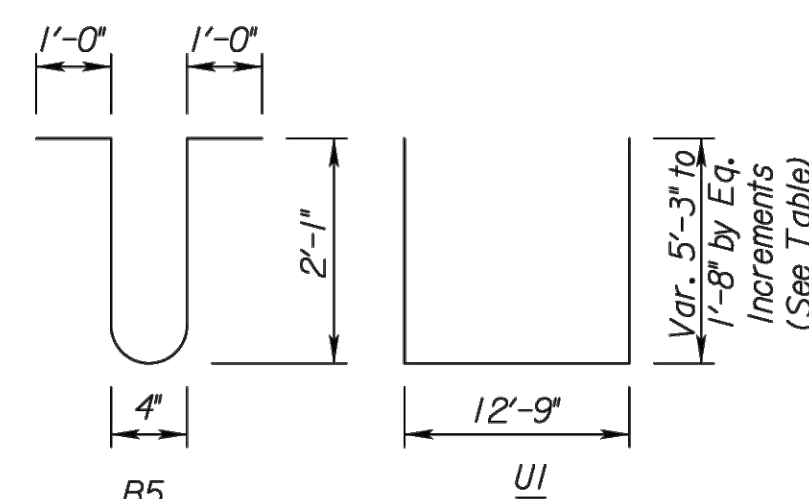
FLARED WINGWALLS-4 FT RISE-SWS LINE 1

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 U:\WICHITA-CIVIL\2020\2006050042\PD3_PLANS\0301_SWD\32-200605-005-CG303 STRAIGHT WINGWALLS-4 FT
 RISE-SWS LINE 1.DWG

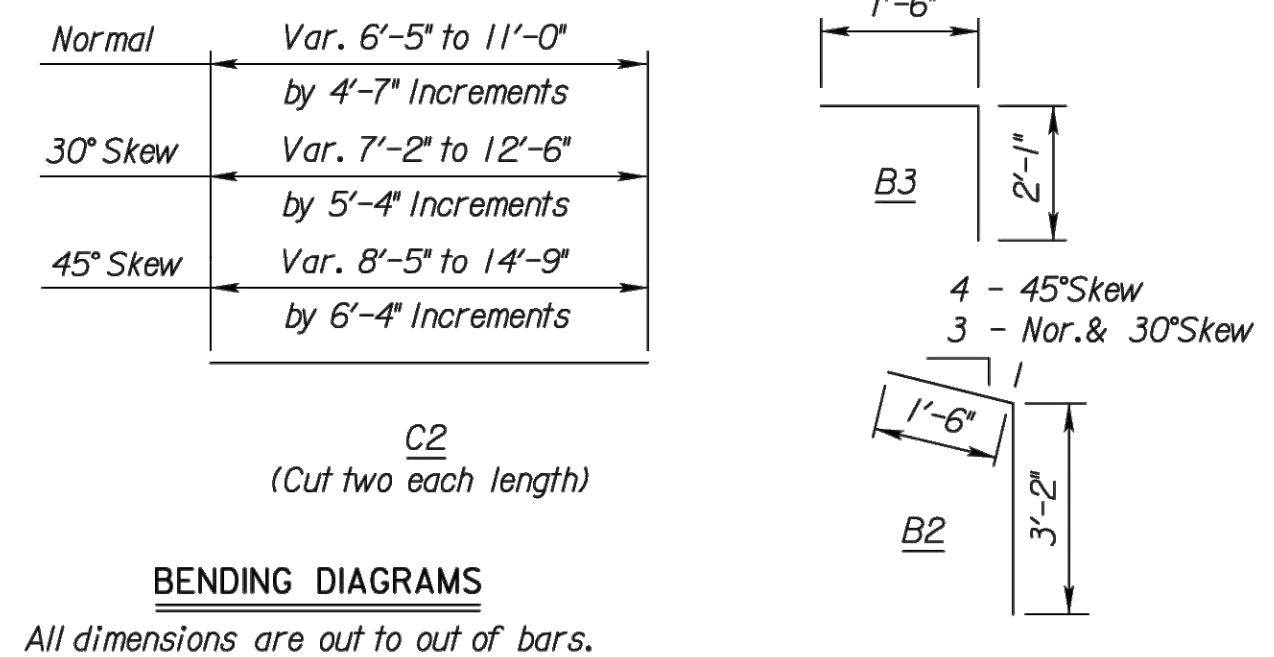
Plotted By: darrins Plot Location:
 File: 2024-11-14 200605-005-1124.dgn
 Plot DGTB: 14-MAY-2024 09:01



*At Contractors option, straight bars and bent bars may be substituted for "U" bars and spliced at locations shown. No allowance will be made for additional steel required. See table for required lap length.



SKEW	INCREMENT
0°	4"
30°	3 1/2" ±
45°	3" ±



BENDING DIAGRAMS
 All dimensions are out to out of bars.

NOTE:
 Wingwall floor and toewall shall be constructed with the RCB floor. Wingwalls to be constructed with RCB walls.

* See Bending Diagram

NOTE: Reinforcing Bar List is for both wings of one end of box only.	#4 B1		#4 B2 *		#4 B3 *		#4 B4		#4 B5 *		#4 C1		#4 C2		#4 U1 *	
	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
*Skew	2	15'-0"	2	4'-8"	9	3'-7"	3	13'-4"	6	6'-4"	11	14'-4"	4	*	12	*

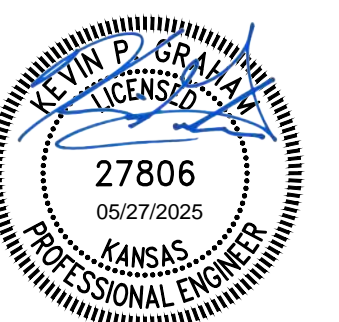
WINGWALL QUANTITIES (One End Only)	
Concrete (Grade 4.0)	5.30 CY.
Reinforcing Steel	365 Lbs.
Foundation Stabilization	3.94 CY.

Quantities listed are included in the Summary of Quantities shown on the RCB.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	200605-005			

GENERAL NOTES

DESIGN SPECIFICATION: AASHTO LRFD Spec., 2007 Ed., 2009 Int. DESIGN LOADING: HL93
UNIT STRESSES: Grade 4.0 Concrete; f'c = 4,000 p.s.i. Reinforcing Steel; fy = 60,000 p.s.i.
CONCRETE: Grade 4.0 Concrete shall be used throughout. Bevel all exposed edges with a 3/4 inch triangular mauling.
REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded wire fabric shall conform to ASTM A185. Wire fabric shall be electrically welded and shall be composed of 6x6-W1.4XW1.4 welded wire fabric and shall be classified as pounds of reinforcing.
QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, excluding the hubguard.
BACKFILL MATERIAL: Soils judged as high plasticity clays, fat clays, expansive clays, or organic clays are unsuitable for backfill material for wingwalls and will not be used. Where these conditions exist, use Granular Backfill (Wingwalls).
FOUNDATION STABILIZATION: Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.
INTERMEDIATE TOE-WALL: When the length of wingwalls and width of apron both exceed 15'-0", an intermediate toe-wall shall be constructed at mid-length of wing-wall as shown on "Elevation of Wingwall".



STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION			
SerId No.(000)	Sta.0		
STRAIGHT WINGWALLS			
4 ft Rise (0°Skew)			
BR 11.00.04		Sedgwick Co.	
FHWA APPROVAL	10-20-10 APP'D	Terry L. Fleck	
DESIGNED	DETAILED	QUANTITIES	CADD
DESIGN CK.	DETAIL CK.	QUAN. CK.	CADD CK.

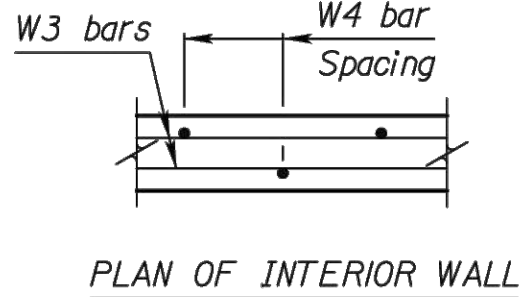
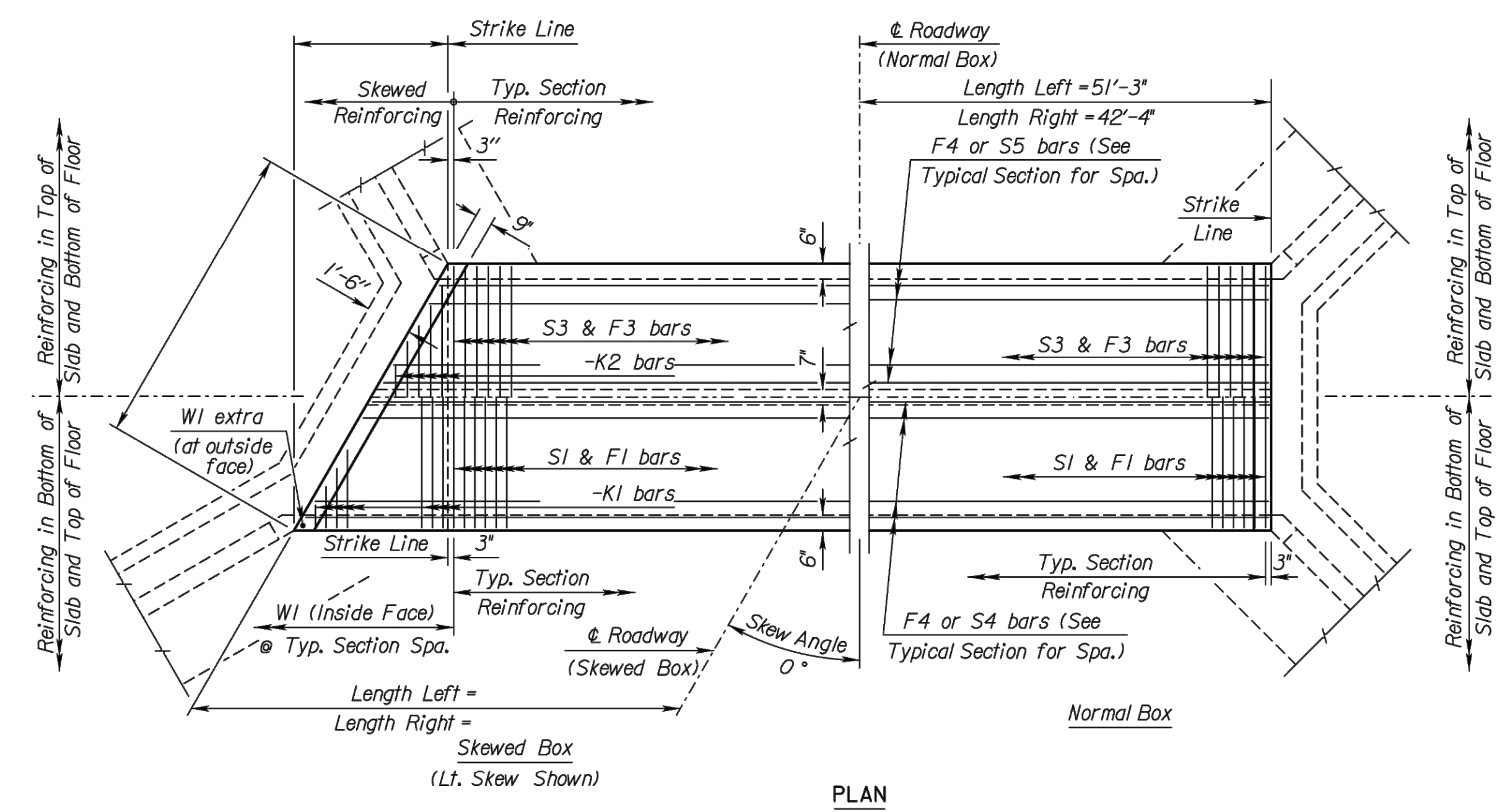
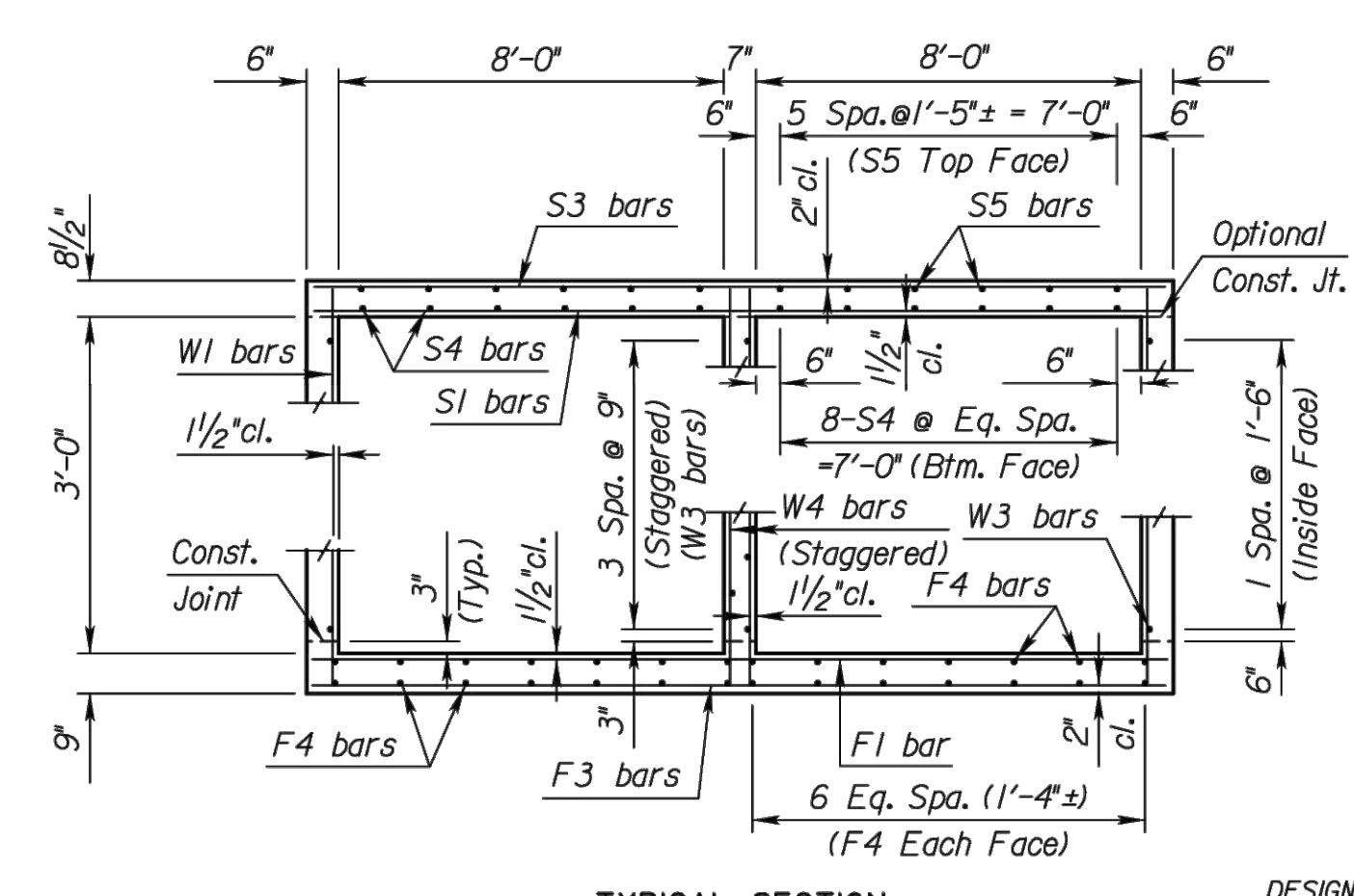
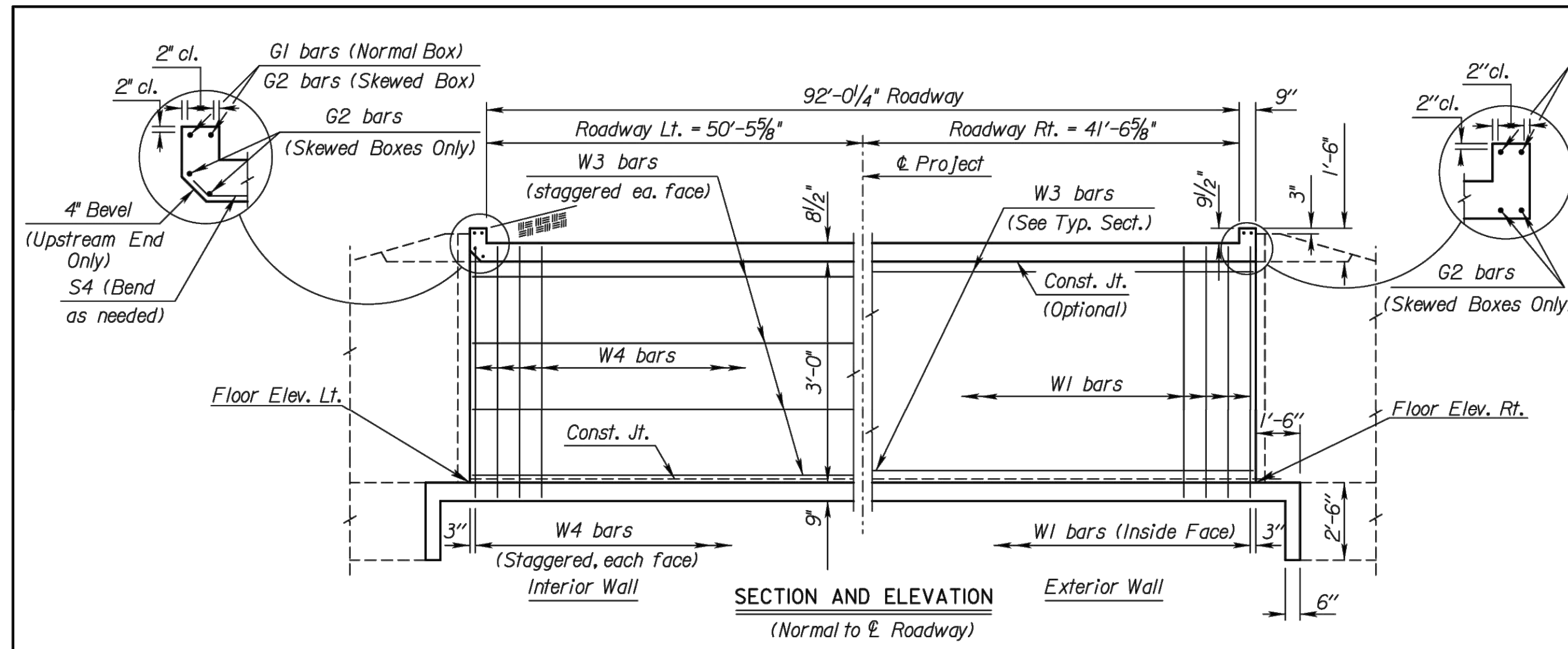
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BSJ
CHECKED BY	KMS

STRAIGHT WINGWALLS-4 FT RISE-SWS LINE 1

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 U:\WICHITA-CIVIL\2020\200605\04\2PD3_PLANS\0301_SWD\33-200605-005-CG304 DOUBLE 8 FT X 3 FT RCB-SWS LINE 8.DWG

VERSION	DATE	BY	REASON
01	12/15/2020	DAVID	INITIAL
02	5/4/2021	DAVID	REVISED
03	1/27	DAVID	REVISED
04	1/27	DAVID	REVISED
05	12/18/2023	DAVID	REVISED

SYSTEM PART	DESCRIPTION	DATE	BY
06	CADD VBA		
	DATA BASE		
	RCB PROGRAM		
	BOX MODEL ID		
	CELL LIBRARY		



STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	200605			

GENERAL NOTES

DESIGN SPECIFICATION: AASHTO LRFD Spec., 2007 Ed., 2009 Int.

DESIGN LOADING: HL93

UNIT STRESSES: Grade 4.0 Concrete $f'c = 4,000$ p.s.i.
Reinforcing Steel $f_y = 60,000$ p.s.i.

FILL HEIGHT: Unless otherwise noted, the Design Fill Height is measured from the riding surface of the culvert and includes the surfacing.

CONCRETE: Use concrete conforming to Grade 4.0 Concrete. Bevel all exposed edges with a $\frac{3}{4}$ " triangular mounding. Where Grade 4.0(AE) is specified, place this concrete in the top slab above the Construction Joint.

REINFORCING: Use reinforcing steel conforming to ASTM A615, Grade 60. All dimensions relative to reinforcing steel are to the centerline of the bar unless otherwise noted.

EXCAVATION: Excavation for culverts less than bridge length shall not be paid for directly but shall be subsidiary to Grade 4.0 Concrete. Excavation for RCB bridges shall be paid for as Class III Excavation.

SEAL COURSE: The Engineer may require a seal course. The seal course shall be unreinforced Concrete(Commercial Grade) with a minimum depth of 3 inches or as determined by the Engineer. Concrete for the seal course shall be paid for at the unit price set for Concrete for Seal Course.

FOUNDATION STABILIZATION: The Foundation Stabilization quantity has been calculated to the limits shown on the "RCB Auxiliary Details" sheet. The depth may be increased by the Engineer. The Contractor may under-run Foundation Stabilization under the barrel if founded on firm material and with the Engineer's approval. Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.

QUANTITIES: The quantities shown in the Culvert Summary include apron and/or soil saver quantities when they are required by the plans. Payment for additional quantities that result from including a seal course and/or a floating apron, as a change in the original plans, shall be made at the unit price bid for the various items involved.

GRANULAR BACKFILL (WINGWALLS): See the "Auxiliary Details" sheet.

STRIKE LINE: Construct the wingwalls and that portion of the RCB outside the Strike Line level. Construct the wingwall footings with the culvert floor. See the wingwall detail sheets.

BRIDGE BACKWALL PROTECTION SYSTEM: For structures with this bid item in the Summary of Quantities. See the "Auxiliary Details" sheet.

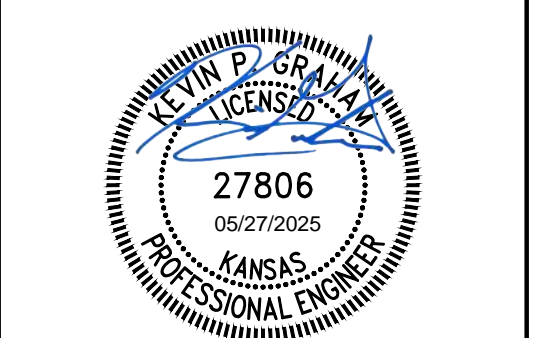
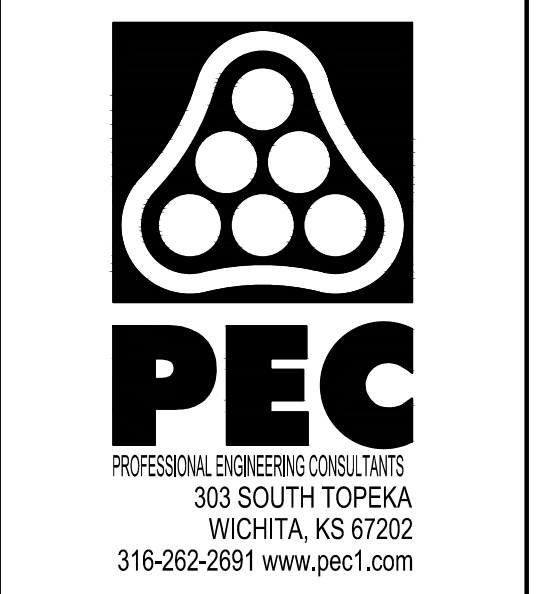
CULVERT SUMMARY										LRFR RATING FACTORS						
Floor Elev. Lt.	Floor Elev. Rt.	Crown Gr. Elev.	Design Fill Ht.	Skew	Left Wings	Right Wings	Scour Apron	Soil Saver	Concrete Barrel (Cu.Yds.)	Wings Total (Cu.Yds.)	Reinf. Steel (Gr. 60) Barrel (Lbs.)	Wings Total (Lbs.)	Inventory	Operating		
1259.00	1258.90	1264.33	2	0	Flared	Straight	No	No	106.01	9.15	115.16	22072	792	22863	1.22	1.56

BAR SCHEDULE																																				
Δ F1				Δ F3				Δ F4				Δ S1				Δ S3				Δ S4				Δ S5												
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length					
6	6 1/2"	173	17'-3"	N/A	N/A	N/A	N/A	5	5 1/2"	204	17'-3"	4	84	32'-1"	6	6 1/2"	173	17'-3"	N/A	N/A	N/A	N/A	5	5 1/2"	204	17'-3"	5	32	47'-6"	4	36	32'-1"				
Δ K1				Δ K2				Δ W1				Δ W2				Δ W3				Δ W4				Δ G1				Δ G2								
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	9"	250	4'-1"	N/A	N/A	N/A	N/A	4	24	32'-1"	4	9"	125	4'-1"	5	4	17'-3"	N/A	N/A	N/A								

Minimum Splice Lengths	
#4	1'-5"
#5	1'-9"

SUMMARY OF QUANTITIES	
Concrete (Grade 4.0)	71.3 C.Y.
Concrete (Grade 4.0(AE))	43.9 C.Y.
Bridge Backwall Protection System	200 S.Y.
Reinforcing Steel (Gr. 60)	790 Lbs.
Reinforcing Steel (Gr. 60)(Epoxy Coated)	22070 Lbs.
Class III Excavation	C.Y.
Foundation Stabilization	43 C.Y.
Concrete for Seal Course (Set)	1 C.Y.
Granular Backfill (Wingwalls)	8 C.Y.

NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
Serial No.(000)		Sta. 0		
DOUBLE 8 ft x 3 ft RCB				
BR 2.8.3 P		Sedgwick Co.		
DESIGNED	DETAILED	QUANTITIES	CADD	Terry L. Fleck
DESIGN CK.	DETAIL CK.	QUAN. CK.	CADD CK.	



STORM WATER DRAIN NO. 526 IMPROVEMENTS
 SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

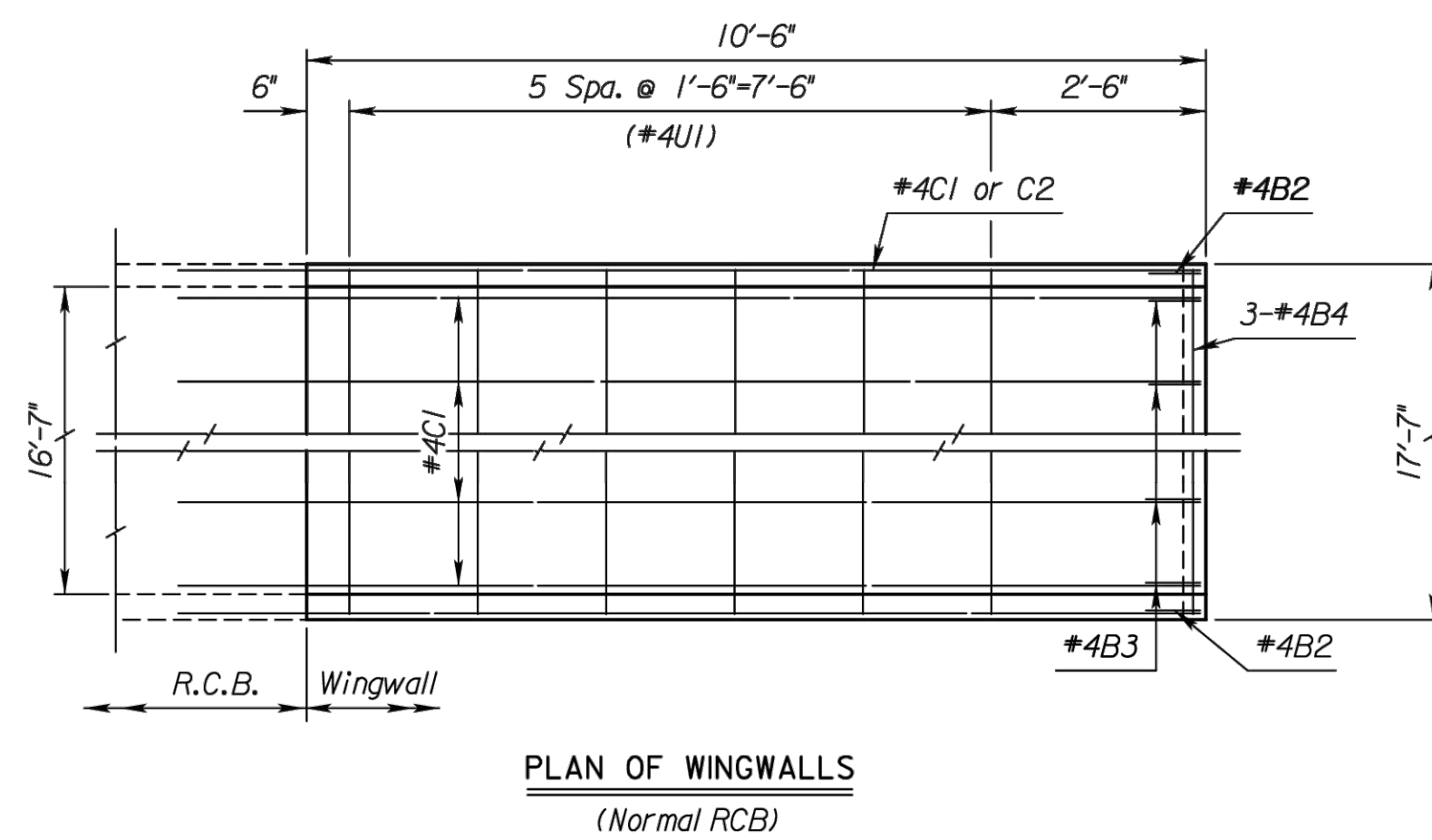
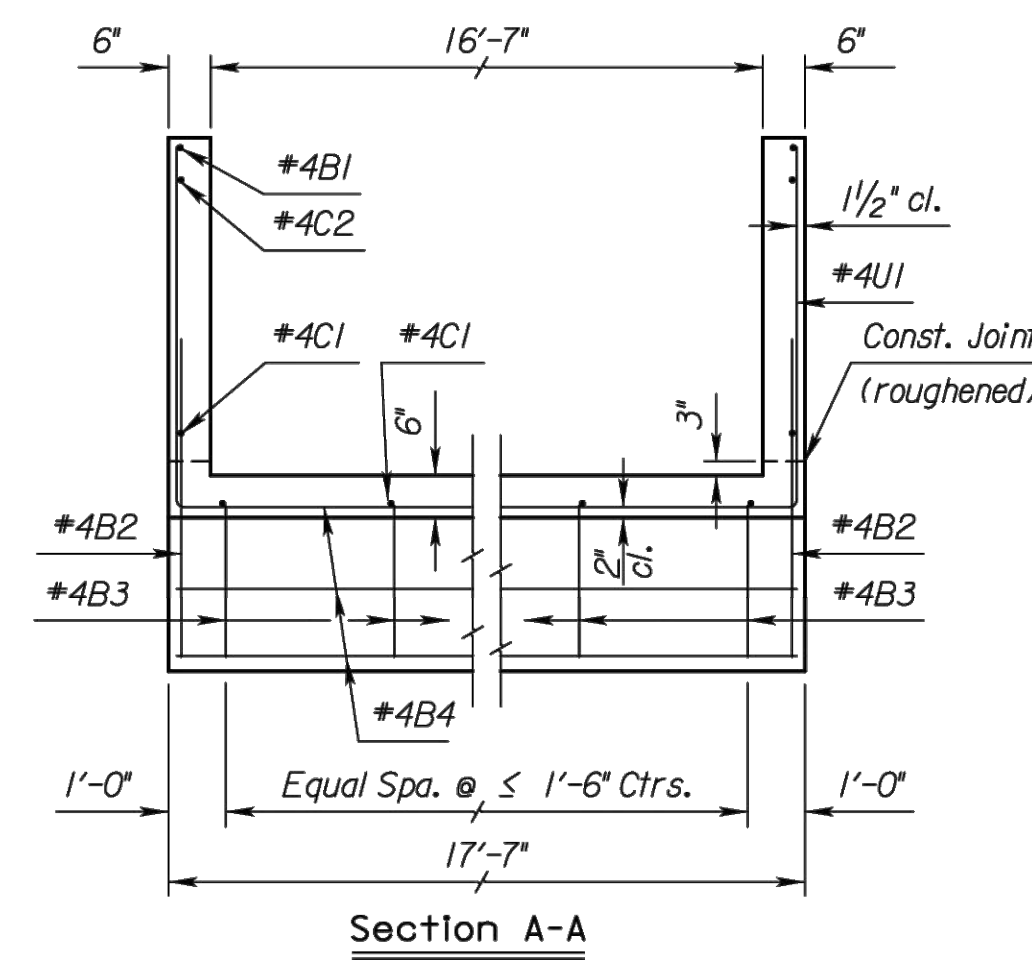
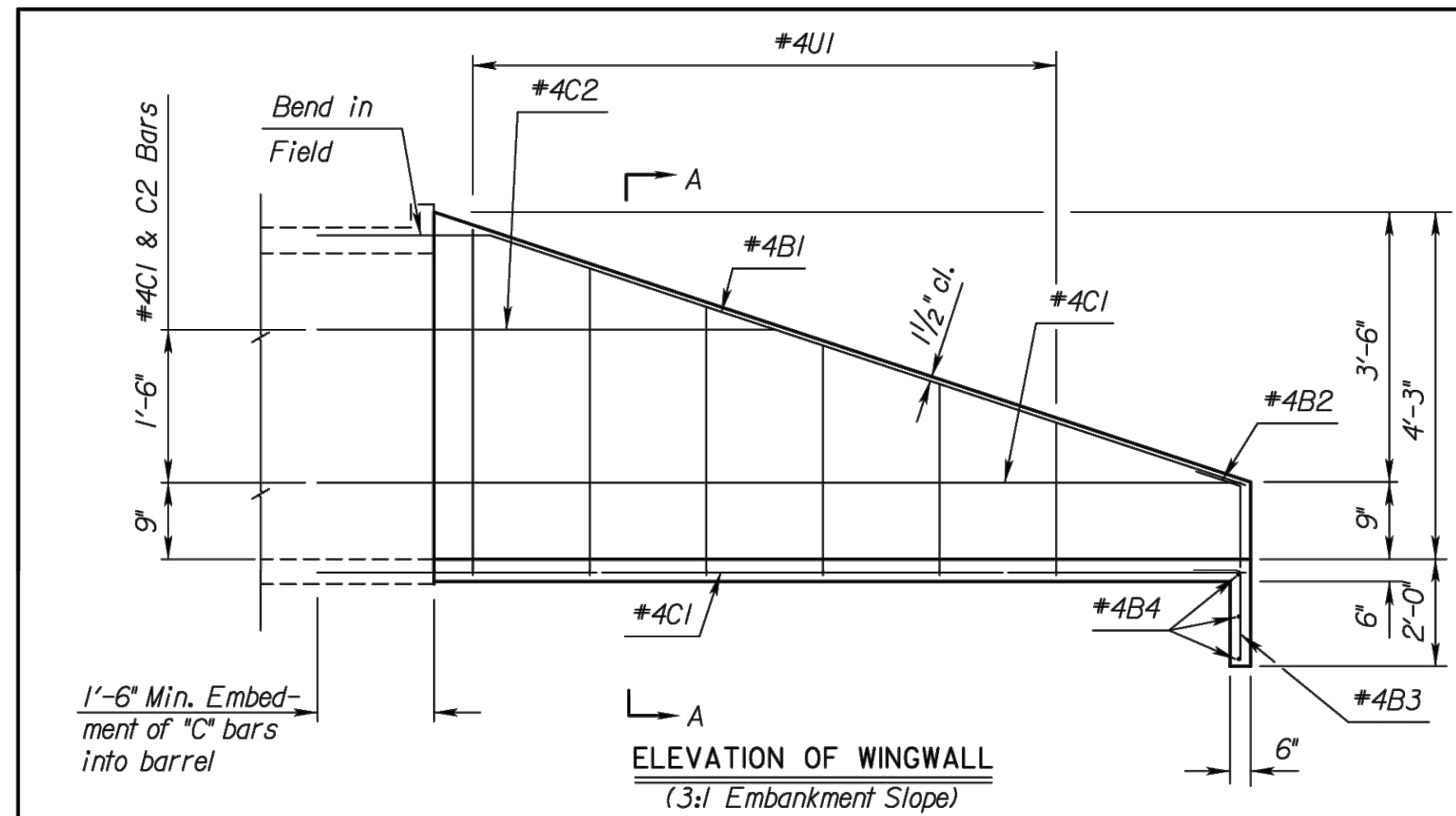
NO.	DATE	REVISIONS	BY	APP'D

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

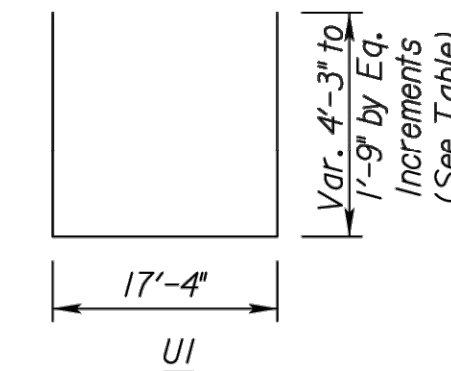
DOUBLE 8 FT X 3 FT RCB-SWS LINE 8
 CG304
 34 OF 44

SAVED 8/9/2024 11:10:52 AM BY BILL SEXSON
 PLOTTED 5/27/2025 11:15:07 AM BY KEVIN GRAHAM
 U:\WICHITA-CIVIL\2020\200605\04\2PD3_PLANS\0301_SWD\35-200605-005-CG306 STRAIGHT WINGWALLS-3 FT
 RISE-SWS LINE 8.DWG

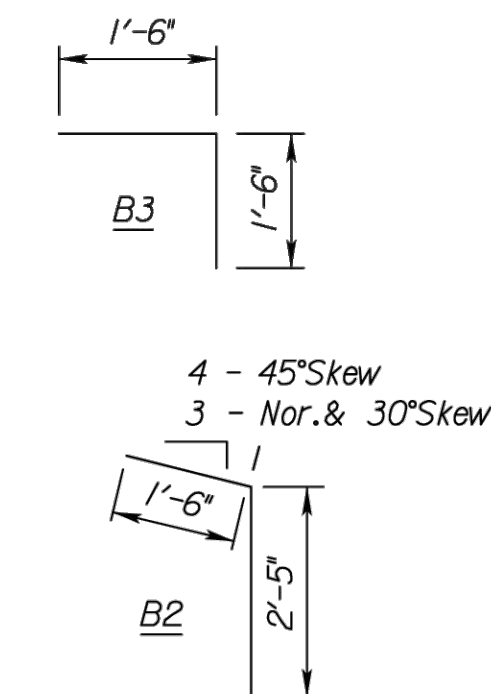
Plotted By: darrins
 File: 2024-3-14_200605_2-8x3.dgn
 Plot Date: 14-MAR-2024 13:30



NOTE:
 Wingwall floor and toewall shall be constructed with the RCB floor.
 Wingwalls to be constructed with RCB walls.



SKREW	INCREMENT
0°	6"
30°	5"
45°	4"



BENDING DIAGRAMS
 All dimensions are out to out of bars.

NOTE:
 Space Weepholes to clear reinforcing steel. See "RCB Auxiliary Details" sheet for additional weephole details.

NOTE: Reinforcing Bar List is for both wings at one end of box only.	#4 B1		#4 B2 *		#4 B3 *		#4 B4		#4C1		#4C2		#4U1 *		
	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	
*Skew	2	12'-6"	2	3'-11"	12	3'-0"	3	17'-3"	0	14	11'-10"	2	7'-2"	6	*

* See Bending Diagram

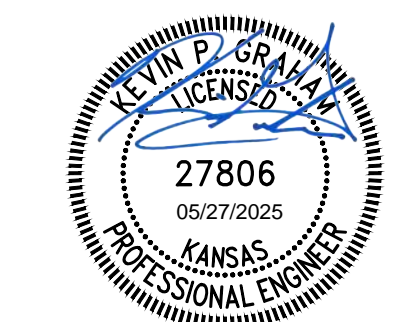
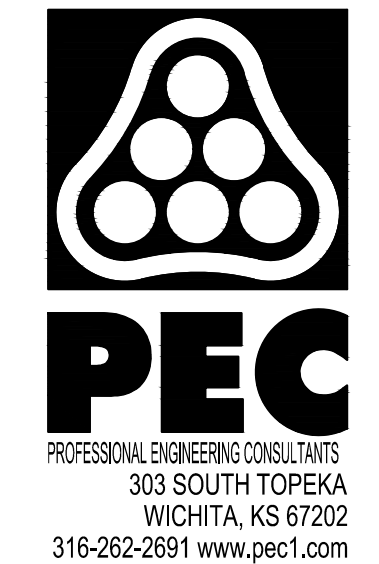
WINGWALL QUANTITIES (One End Only)	
Concrete (Grade 4.0)	4.88 CY.
Reinforcing Steel	294 Lbs.
Foundation Stabilization	4.00 CY.

Quantities listed are included in the Summary of Quantities shown on the RCB.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	200605			

GENERAL NOTES

DESIGN SPECIFICATION: AASHTO LRFD Spec., 2007 Ed., 2009 Int.
 DESIGN LOADING: HL93
 UNIT STRESSES: Grade 4.0 Concrete; $f'_c = 4,000$ p.s.i.
 Reinforcing Steel; $f_y = 60,000$ p.s.i.
 CONCRETE: Grade 4.0 Concrete shall be used throughout. Bevel all exposed edges with a 3/4 inch triangular mauling.
 REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded wire fabric shall conform to ASTM A185. Wire fabric shall be electrically welded and shall be composed of 6x6-W1.4xW1.4 welded wire fabric and shall be classified as pounds of reinforcing.
 QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, excluding the hubguard.
 BACKFILL MATERIAL: Soils judged as high plasticity clays, fat clays, expansive soils, or organic clays are unsuitable for backfill material for wingwalls and will not be used. Where these conditions exist, use Granular Backfill (Wingwalls).
 FOUNDATION STABILIZATION: Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.
 INTERMEDIATE TOE-WALL: When the length of wingwalls and width of apron both exceed 15'-0", an intermediate toe-wall shall be constructed at mid-length of wing-wall as shown on "Elevation of Wingwall".



STORM WATER DRAIN NO. 526 IMPROVEMENTS
 SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

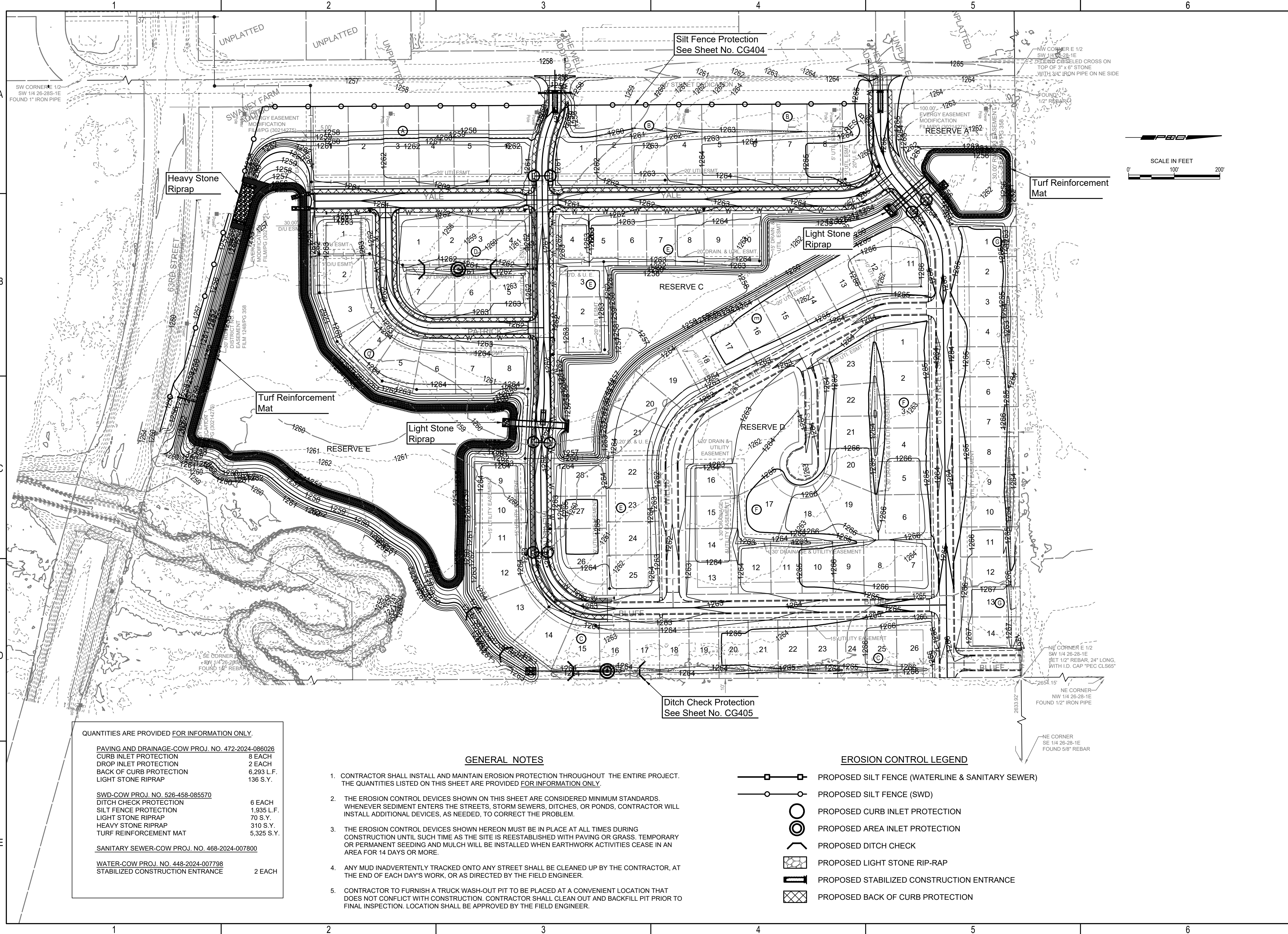
NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION			
SerId No.(000)	Sta.0		
STRAIGHT WINGWALLS			
3 ft Rise (0°Skew)			
BR 11.00.03	Sedgwick Co.		
FHWA APPROVAL	6-5-91 APP'D	Terry L. Fleck	
DESIGNED	DETAILED	QUANTITIES	CADD
DESIGN CK.	DETAIL CK.	QUAN. CK.	CADD CK.

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

STRAIGHT WINGWALLS-3 FT RISE-SWS LINE 8

SAVED 5/27/2025 10:02:32 AM BY KEVIN GRAHAM
 PLOTTED 5/27/2025 11:16:08 AM BY KEVIN GRAHAM
 U:\WICHITA-CIVIL\2020\200605\04\2PD3_PLANS\0301_SWD\37-200605-005-CG402 EROSION CONTROL PLAN.DWG

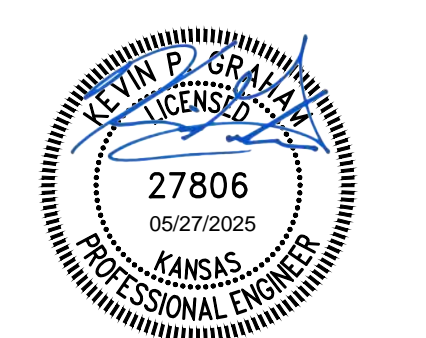
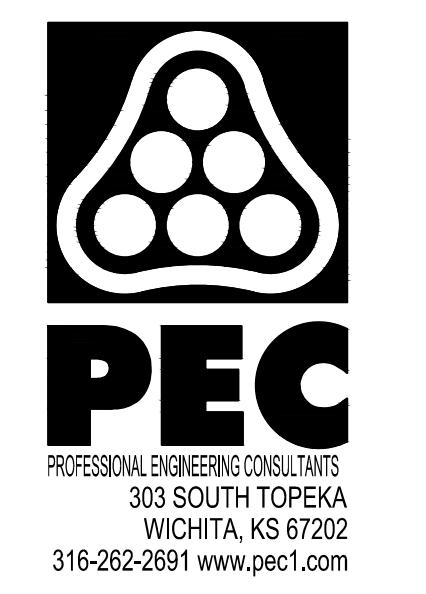
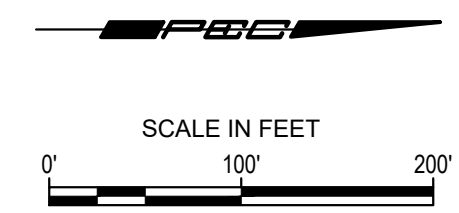


QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

PAVING AND DRAINAGE-COW PROJ. NO. 472-2024-086026	
CURB INLET PROTECTION	8 EACH
DROP INLET PROTECTION	2 EACH
BACK OF CURB PROTECTION	6,293 L.F.
LIGHT STONE RIPRAP	136 S.Y.
SWD-COW PROJ. NO. 526-458-085570	
DITCH CHECK PROTECTION	6 EACH
SILT FENCE PROTECTION	1,935 L.F.
LIGHT STONE RIPRAP	70 S.Y.
HEAVY STONE RIPRAP	310 S.Y.
TURF REINFORCEMENT MAT	5,325 S.Y.
SANITARY SEWER-COW PROJ. NO. 468-2024-007800	
WATER-COW PROJ. NO. 448-2024-007798	
STABILIZED CONSTRUCTION ENTRANCE	2 EACH

- 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.

- EROSION CONTROL LEGEND**
- PROPOSED SILT FENCE (WATERLINE & SANITARY SEWER)
 - PROPOSED SILT FENCE (SWD)
 - PROPOSED CURB INLET PROTECTION
 - PROPOSED AREA INLET PROTECTION
 - PROPOSED DITCH CHECK
 - PROPOSED LIGHT STONE RIP-RAP
 - PROPOSED STABILIZED CONSTRUCTION ENTRANCE
 - PROPOSED BACK OF CURB PROTECTION



STORM WATER DRAIN NO. 526
 IMPROVEMENTS
SWANEY FARM ADDITION
 PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

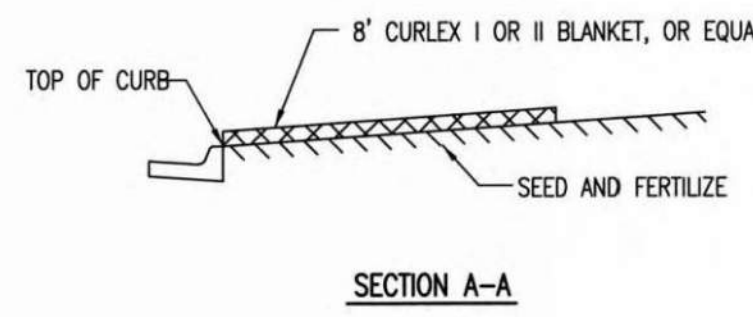
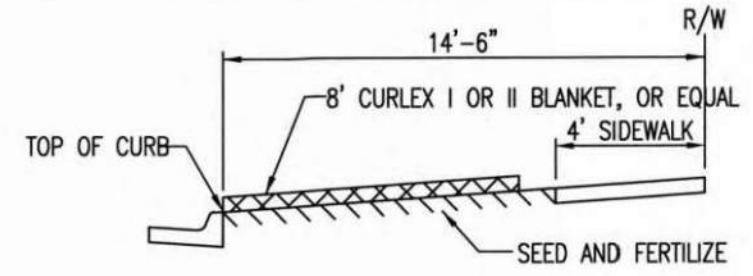
EROSION CONTROL PLAN
CG402
 38 OF 44

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 PLOTTED 5/27/2025 11:16:12 AM BY KEVIN GRAHAM
 U:\WICHITA-CIVIL\2020\200605\04\2PD3_PLANS\0301_SWD\38-200605-005-CG403 BACK OF CURB & CURB INLET
 PROT.DWG

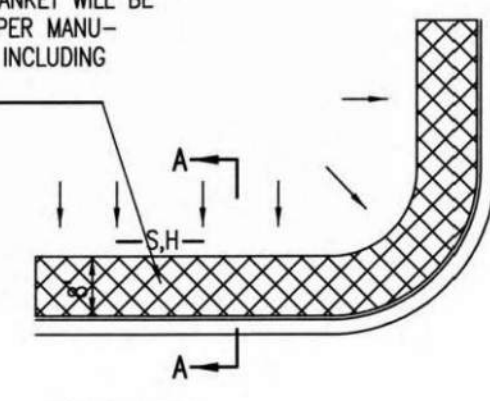
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 PROT.DWG

1 2 3 4 5 6

A
B
C
D
E



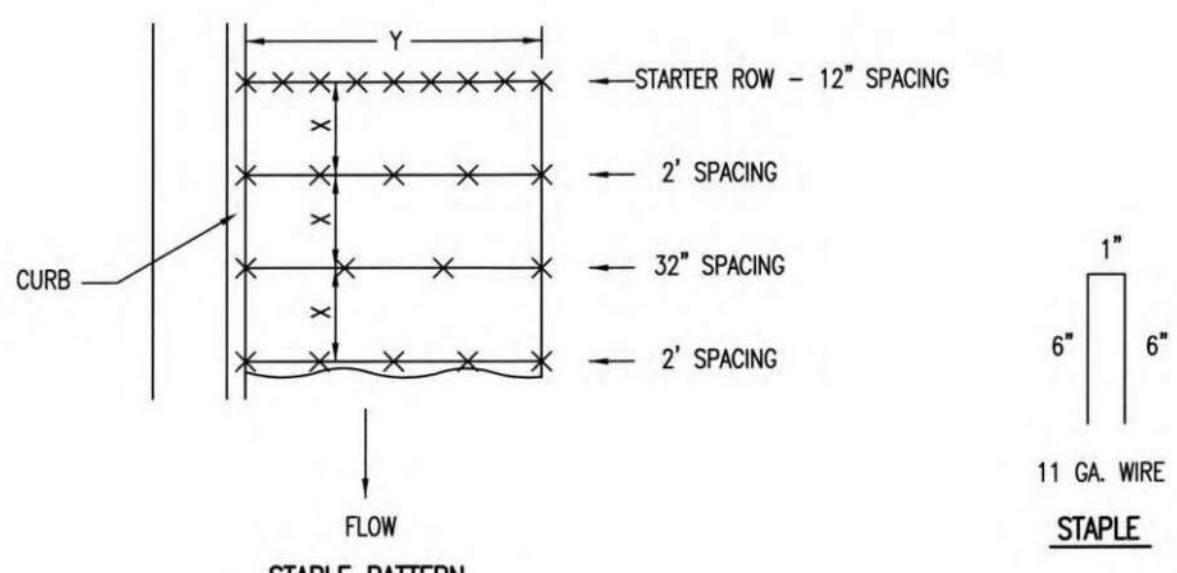
INSTALL 8" WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)



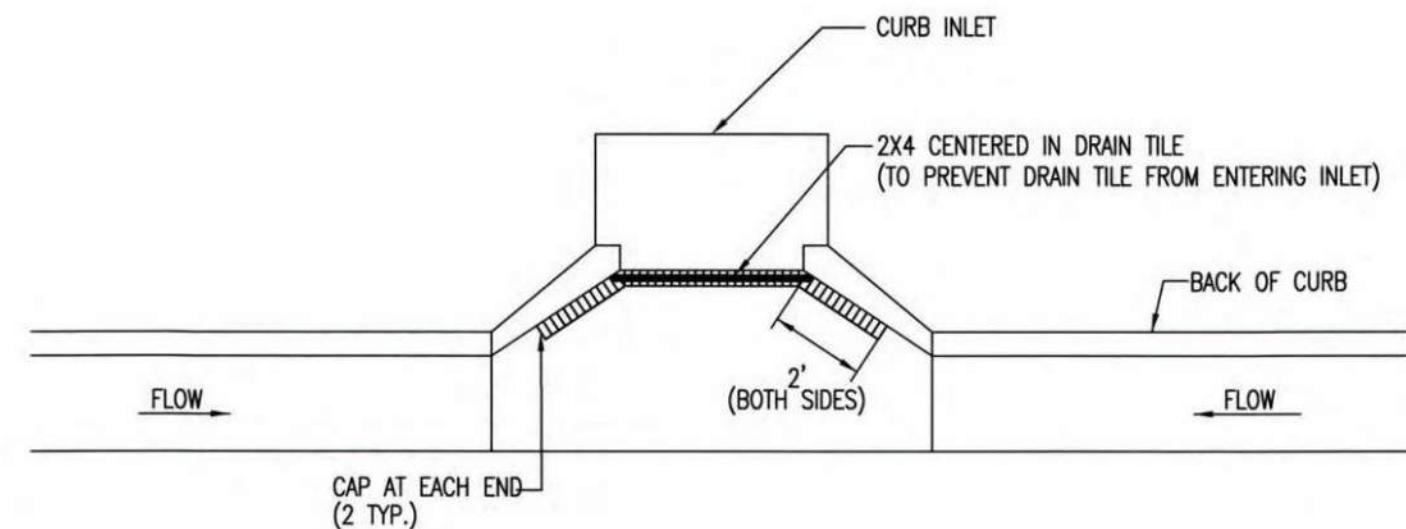
INSTALL 8" WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

- GENERAL NOTES**
- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
 - EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
 - AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

BACK OF CURB PROTECTION DETAIL

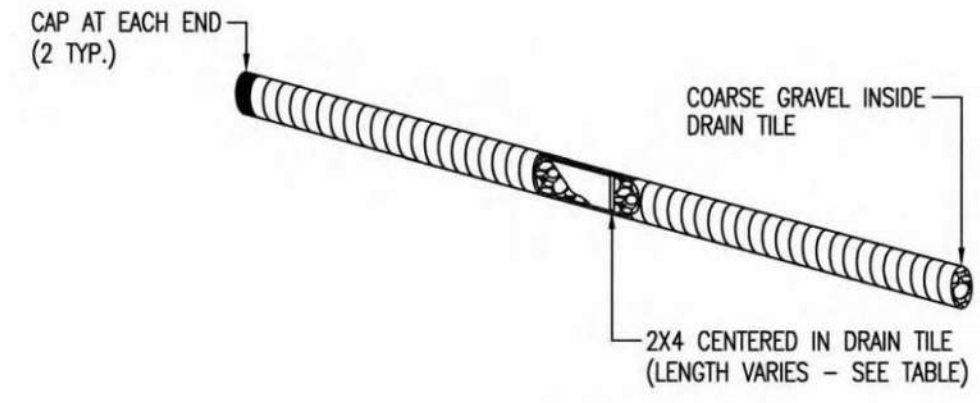


DETAILS FOR APPROVED EROSION CONTROL MAT

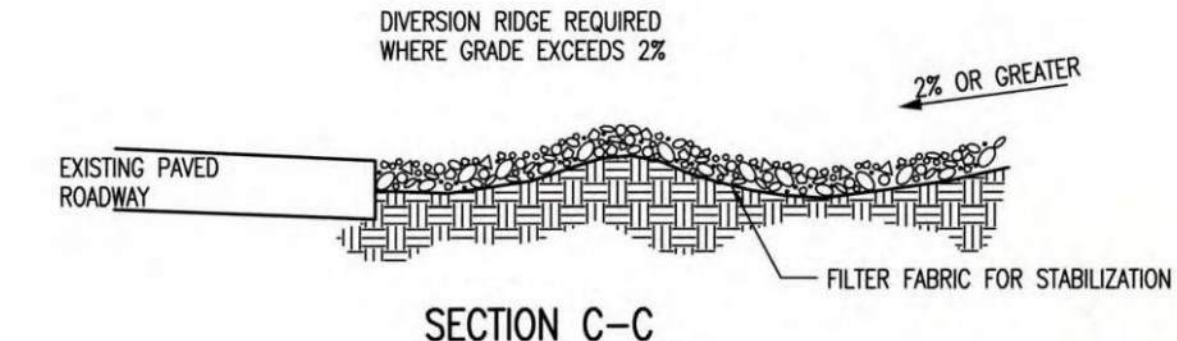


NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

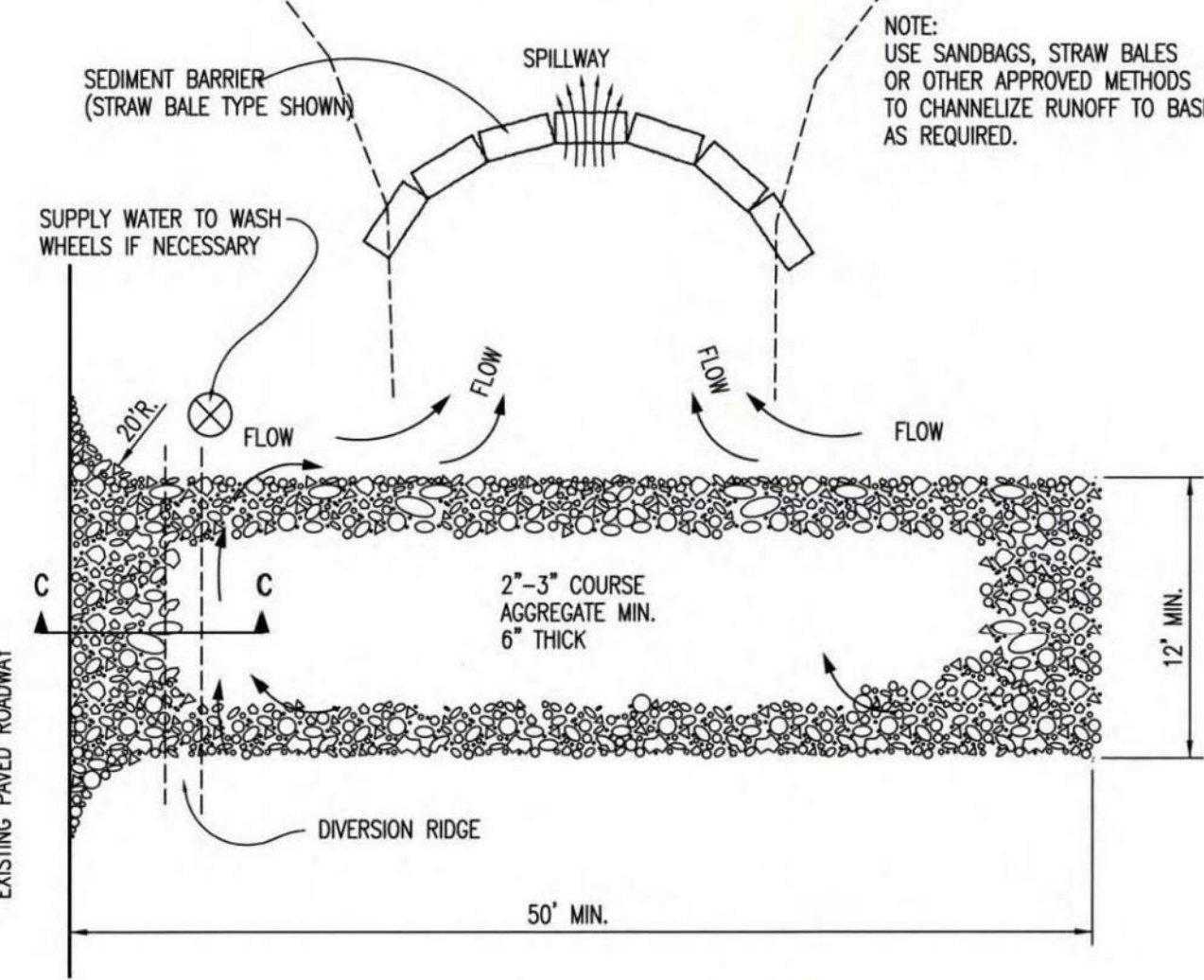
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

- GENERAL NOTES**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
 - DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

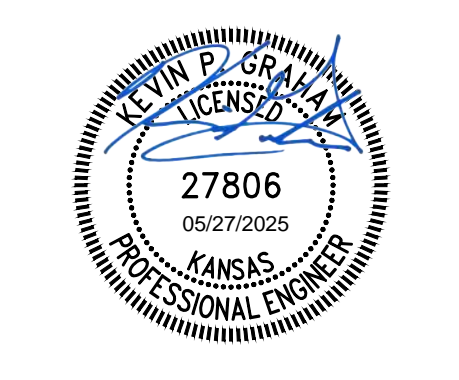


REVISION DATE: MAY 2013

BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER 472-2024-086026	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501	SHEET	---- of --



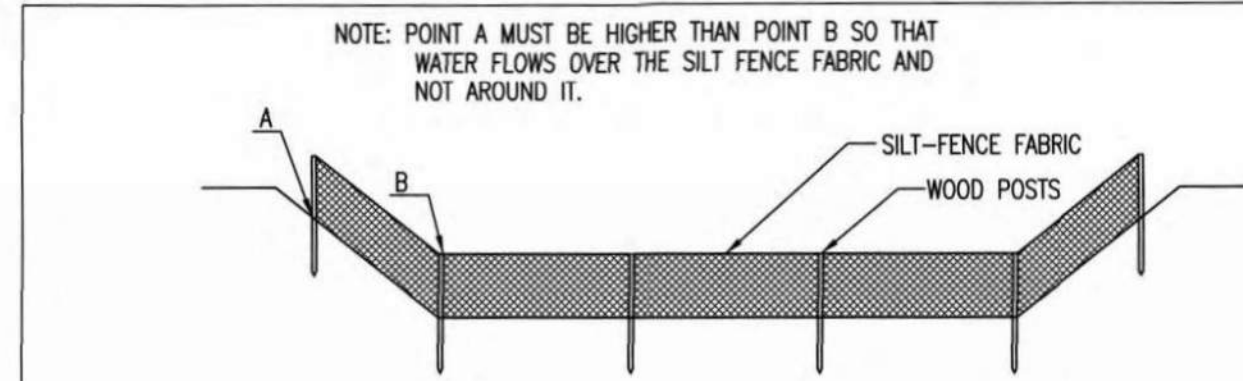
STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
PAUL GUNZELMAN CITY ENGINEER
CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:		

JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

BACK OF CURB AND CURB INLET PROTECTION

CG403
39 OF 44



ELEVATION
SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED. SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK. SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. SILT FENCE 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 DITCH GRADE (%)	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 AT LEAST 12" DEEP BY 6" 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 FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSTREAM EDGE OF THE TRENCH. LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE ON THE UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

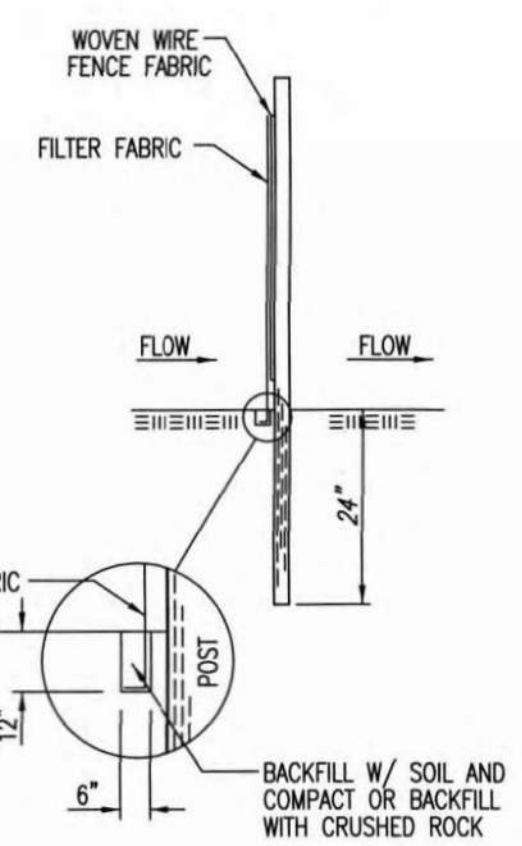
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK-NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM. DO NOT PLACE SILT FENCE POSTS ON THE UPSTREAM SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW. DO NOT PLACE SILT FENCE 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 FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE. DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

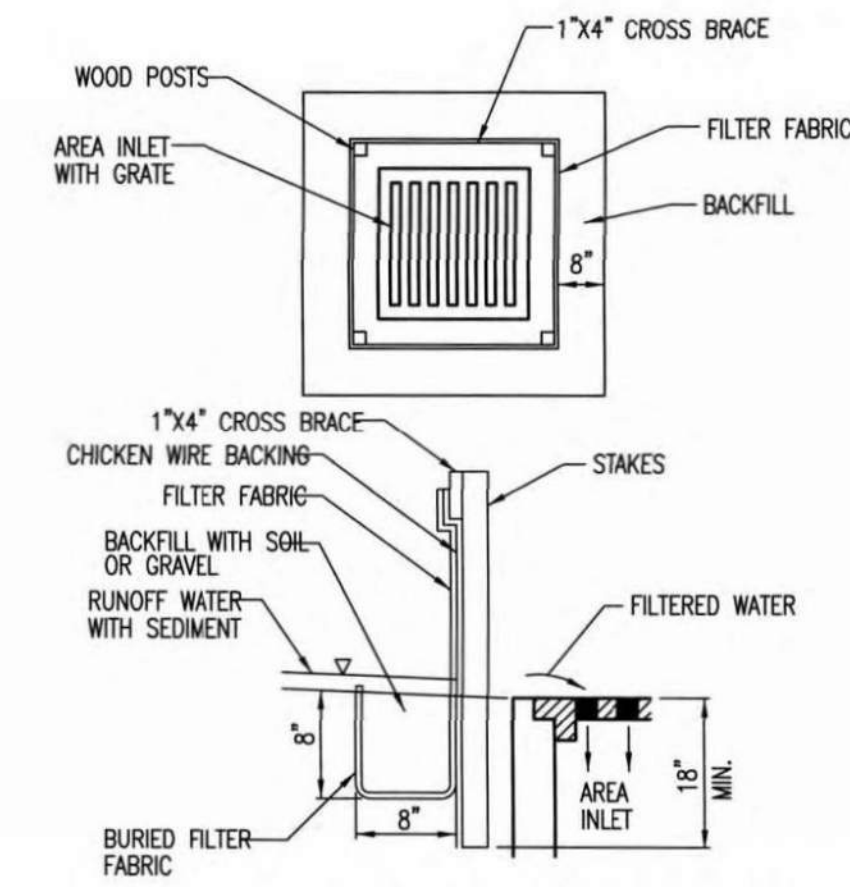
INSPECTION AND MAINTENANCE:

SILT FENCE 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 THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS. SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME. WHEN A SILT FENCE BARRIER FOR AREA INLETS 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 8" DEEP BY 8" WIDE. DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET. THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM. CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING. ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE:

WHEN A SILT FENCE BARRIER FOR AREA INLET 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.

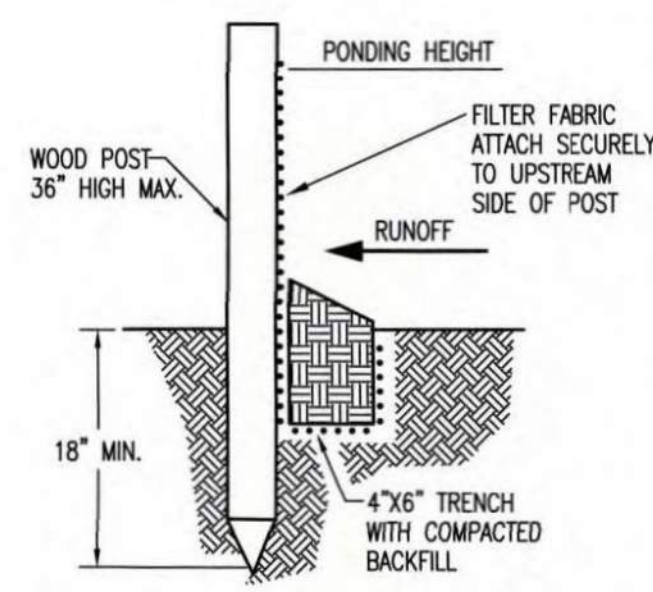
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET-NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESISTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS 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 SILT FENCE?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

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, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE 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 6" DEEP BY 4" 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. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES. DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT. SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND-SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

INSPECTION AND MAINTENANCE:

SILT FENCE 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?
- DO THE SILT FENCES SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013



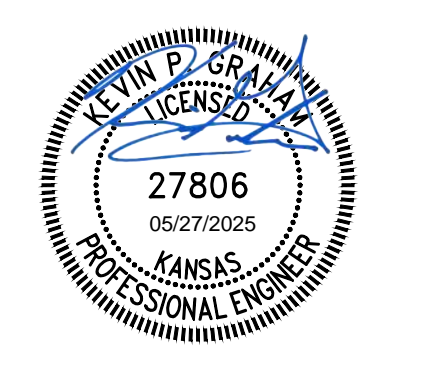
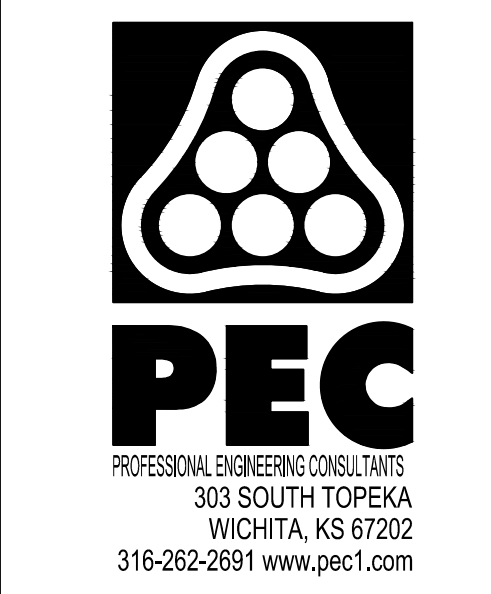
SILT FENCE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER: 472- OCA NUMBER: DATE: _____

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

SHEET: 2 of _____



STORM WATER DRAIN NO. 526 IMPROVEMENTS
SWANEY FARM ADDITION
PAUL GUNZELMAN CITY ENGINEER
CITY OF WICHITA PROJECT NO. 458-2024-085570

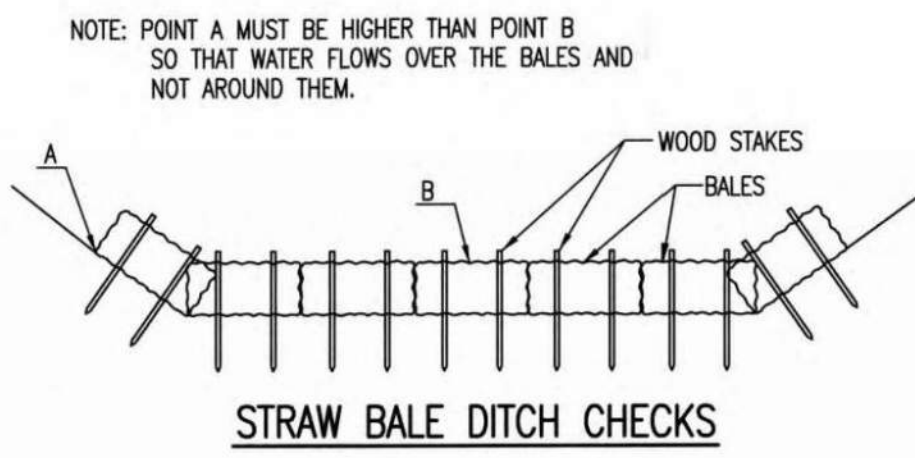
Issue:	
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

SILT FENCE DITCH CHECK

SAVED: 8/9/2024 11:11:13 AM BY KEVIN GRAHAM
PLOTTED: 5/27/2025 11:16:17 AM BY KEVIN GRAHAM
U:\WICHITA-CIVIL\2020\2006050042\PD3_PLANS\0301_SWD\39-200605-005-CG404 SILT FENCE DITCH CHECK.DWG

Scale: 0.6 - 0.6 - 2024 11:11:13 AM by KEVIN GRAHAM
U:\WICHITA-CIVIL\2020\2006050042\PD3_PLANS\0301_SWD\39-200605-005-CG404 SILT FENCE DITCH CHECK

SW-502



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 GRADE (%)	CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	40
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.

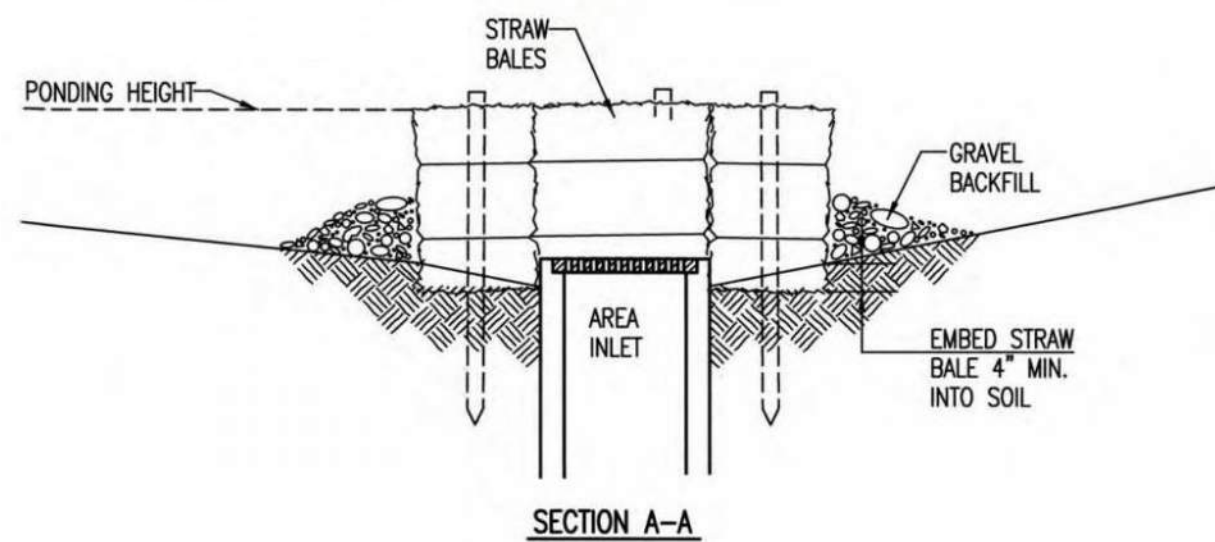
DO NOT PLACE BALE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

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.

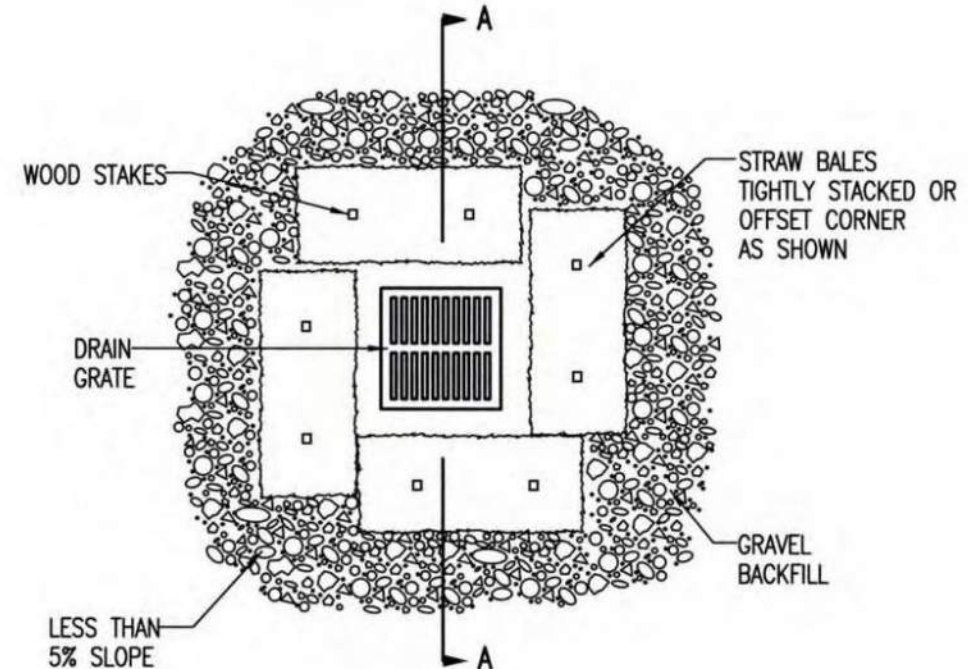
INSPECTION AND MAINTENANCE:

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?



SECTION A-A



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:

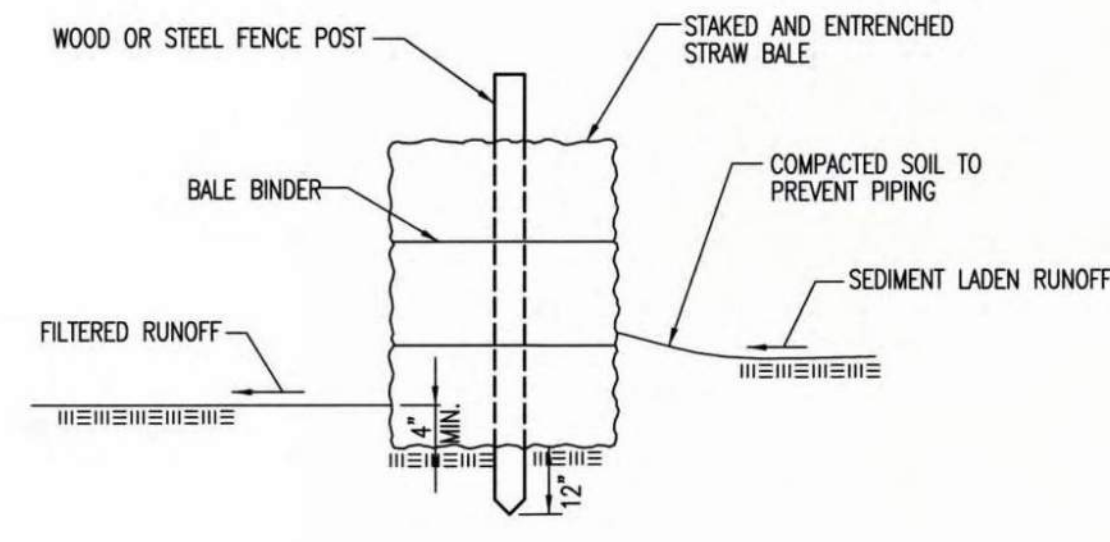
BALES SHOULD BE PLACED DIRECTLY AGAINST THE PERIMETER OF THE AREA INLET. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR.

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 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:

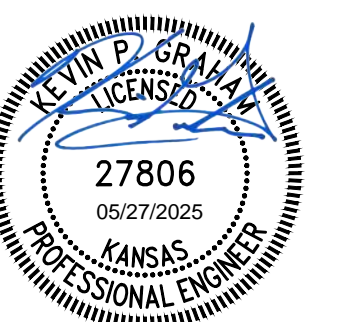
- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
- ARE ANY BALES DISLODGED?
- ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

<p>CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION</p>			<p>STRAW BALE DITCH CHECK AND BARRIER DETAILS</p>	
			<p>CITY ENGINEER GARY JANZEN, P.E.</p>	
PROJECT NUMBER	OCA NUMBER	DATE	SHEET	
472-			---- of ---	
<p>CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501</p>				



SW-503



STORM WATER DRAIN NO. 526 IMPROVEMENTS

SWANEY FARM ADDITION

PAUL GUNZELMAN CITY ENGINEER
CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

STRAW BALE DITCH CHECK

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PLOTTED 5/27/2025 11:16:22 AM BY KEVIN GRAHAM
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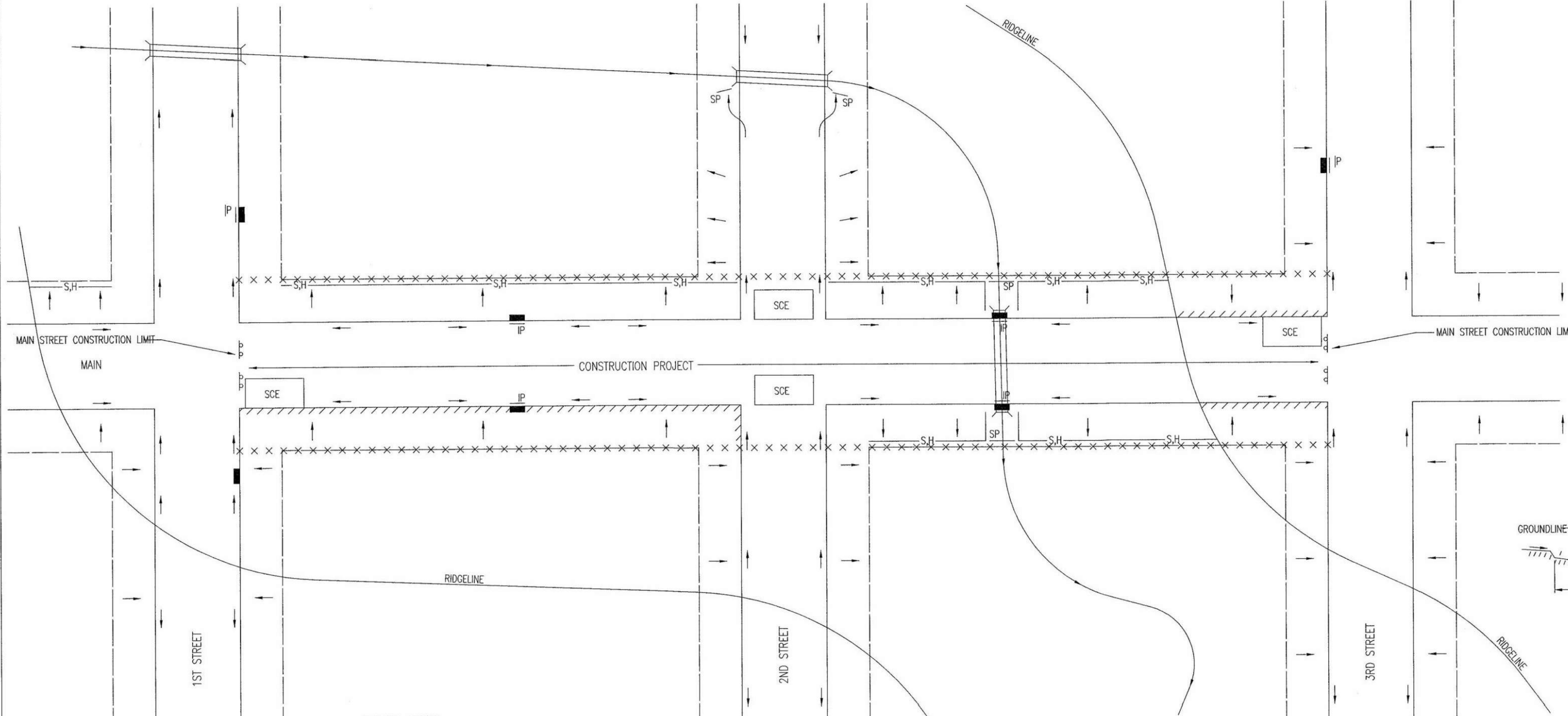
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SAVED 8/9/2024 11:11:42 AM BY KEVIN GRAHAM
 PLOTTED 5/27/2025 11:16:27 AM BY KEVIN GRAHAM
 U:\WICHITA-CIVIL\2020\2006050042PD3_PLANS\0301_SWD\41-200605-005-CG406 STREET IMPROV PROJ.DWG

Scale: 1" = 40'-0" (1:480)
 Date: 05/27/2025 11:16:27 AM
 User: KEVIN GRAHAM
 Plot: 41-200605-005-CG406 STREET IMPROV PROJ

GENERAL NOTES

- THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
- EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
- IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
- FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
- FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
- THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.



LEGEND

- R-O-W LIMITS
- DRAINAGE FLOW PATH
- x x x x x R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP INLET PROTECTION
- S.H— SILT FENCE OR HAY BALE BARRIER
- SP— STREAM PROTECTION
- SCE STABILIZED CONSTRUCTION ENTRANCE
- /// BACK OF CURB PROTECTION

GENERAL NOTES

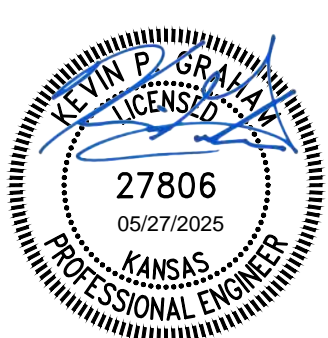
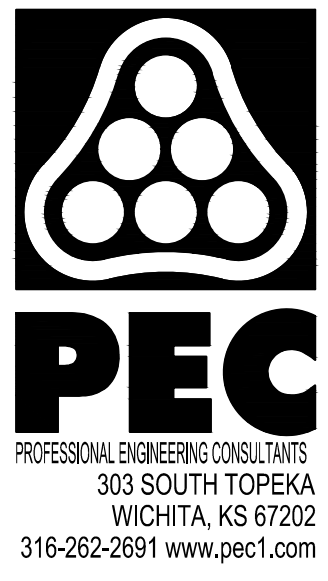
- THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
- THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
- EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
- INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
- ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
- THE CONTRACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
 - THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMP'S - BACK OF CURB SEDIMENT BARRIER DETAILS)
 - THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL)
 - ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS WHERE CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
 - SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)



STREET IMPROVEMENT PROJECTS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 472-	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 4

REVISION: JUNE 2015

SW-504



STORM WATER DRAIN NO. 526 IMPROVEMENTS

SWANEY FARM ADDITION

PAUL GUNZELMAN CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 458-2024-085570

Issue:	
JOB NO.	200605-005
DATE	MAY 2025
PM	KPG
DESIGNED BY	KPG
DRAWN BY	BJS
CHECKED BY	KMS

STREET IMPROVEMENT PROJECTS
CG406
 42 OF 44

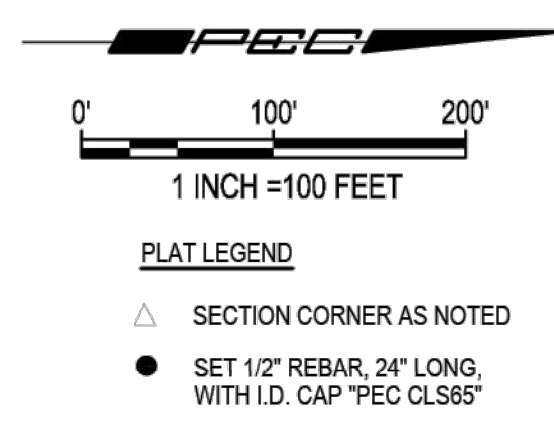
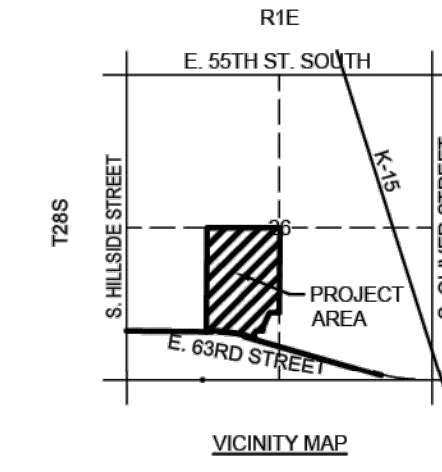
SWANEY FARM ADDITION

CITY OF WICHITA, SEDGWICK COUNTY, KANSAS

FINAL PLAT

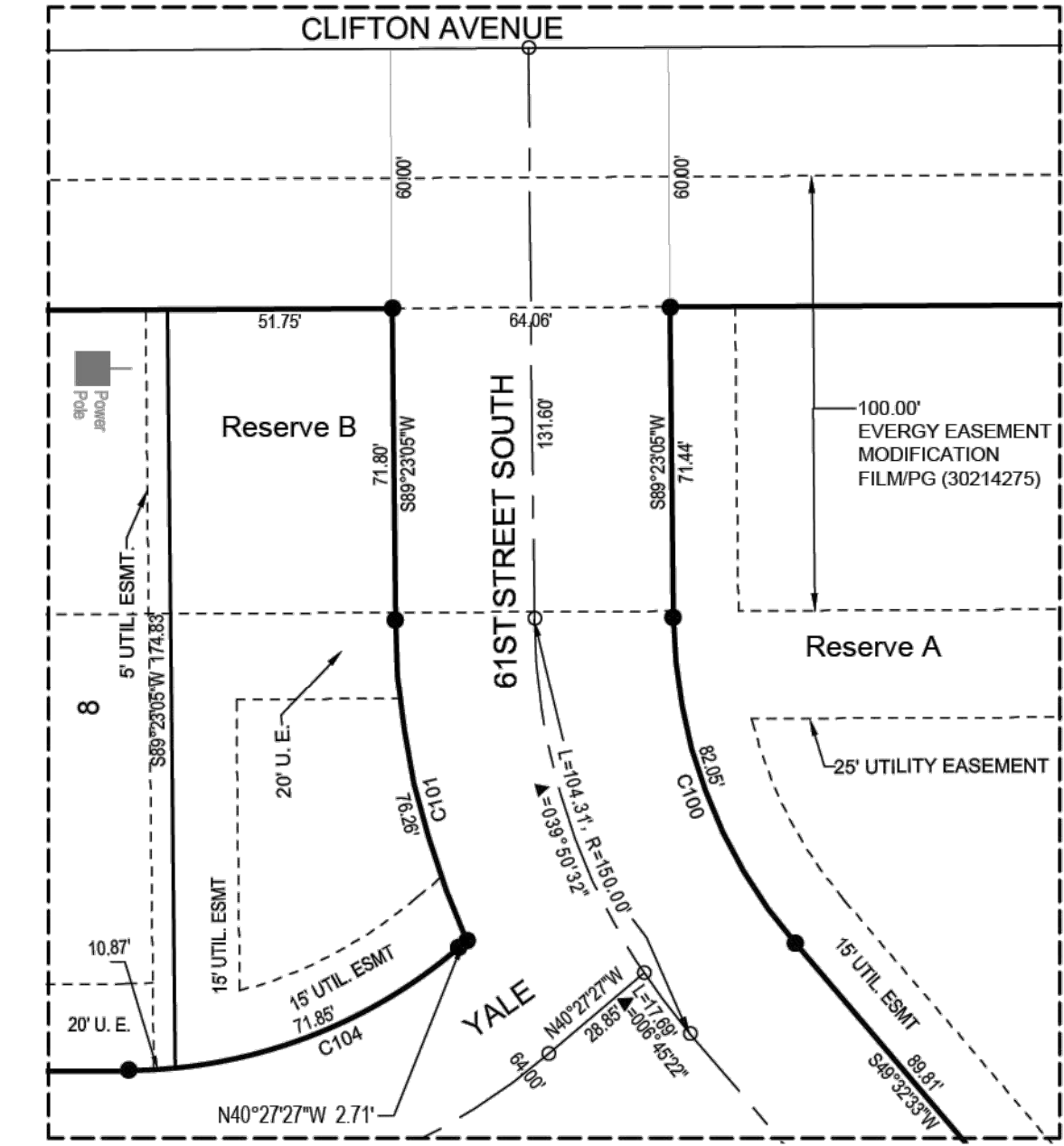
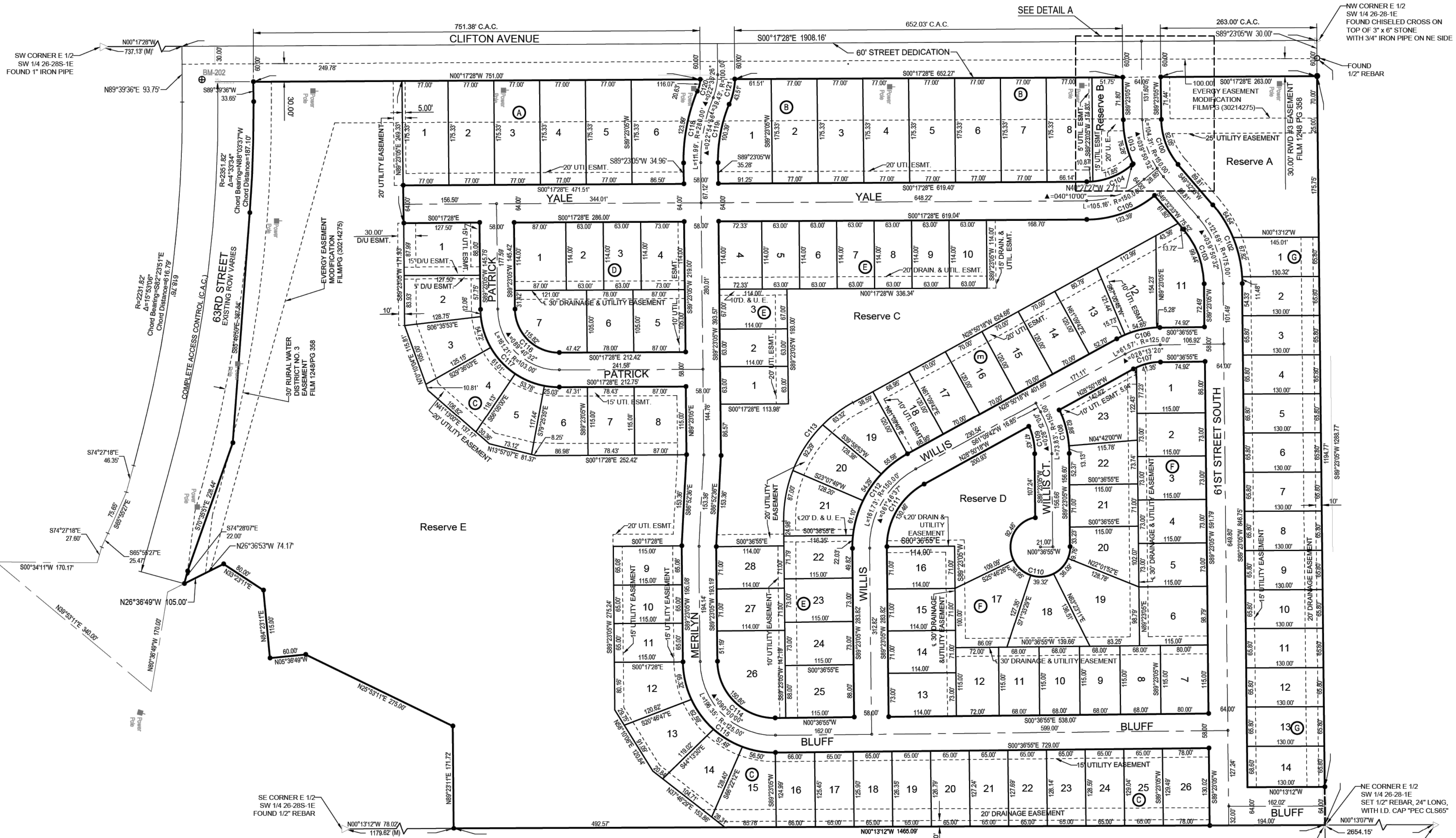
MINIMUM PAD TABLE

LOCATION	MINIMUM OPENING (BFE + 2')
BLOCK A, LOTS 1-6	1261.6
BLOCK B, LOTS 1-3	1261.6
BLOCK C, LOTS 1-4	1261.6
BLOCK C, LOTS 5-7	1262.8
BLOCK C, LOTS 9-11	1263.5
BLOCK C, LOTS 12-14	1263.8
BLOCK D, LOTS 1-4, 7	1261.6
BLOCK E, LOTS 11-12	1264.9
BLOCK E, LOTS 13-14	1264.7
BLOCK E, LOT 15	1264.4
BLOCK E, LOT 16	1264.4
BLOCK E, LOT 17	1263.8
BLOCK E, LOT 18	1263.8
BLOCK E, LOT 19	1263.7
BLOCK E, LOT 20	1263.6
BLOCK E, LOTS 21-23	1263.5
BLOCK F, LOT 1	1264.9
BLOCK F, LOTS 2-3	1264.7
BLOCK F, LOTS 15-16	1264.3
BLOCK F, LOTS 17-18	1264.8
BLOCK G, LOTS 1-3	1265.0



BENCH MARK

BENCHMARK 202 - CHISELED X ON CURB STORM DRAIN ON THE SE SIDE OF CLIFTON AND 63RD.
 ELEV = 1259.36 (NAVD88)
 THENCE N00°17'28\"/>



CURVE TABLE

CURVE NO.	RADIUS	DELTA	LENGTH	CHORD LENGTH	CHORD BEARING
C100	118.00	39°50'32"	62.05	60.41'	N69°27'48"E
C101	182.00	24°00'25"	76.26	75.70'	N77°22'52"E
C102	207.00	39°50'32"	143.94	141.06'	S69°27'49"W
C103	143.00	39°50'32"	99.44	97.45'	S69°27'49"W
C104	118.00	40°10'00"	82.72	81.04'	N20°22'27"W
C105	182.00	38°50'46"	123.39	121.04'	N19°42'50"W
C106	154.00	28°13'23"	75.66	75.09'	S14°43'37"E
C107	96.00	28°13'23"	47.29	46.81'	S14°43'37"E
C108	179.00	24°19'50"	76.01	75.44'	S77°13'10"W
C109	121.00	22°27'34"	47.43	47.13'	S78°09'16"W
C111	121.00	61°46'37"	130.46	124.24'	S59°43'37"E
C112	179.00	61°46'37"	193.00	183.79'	S59°43'37"E
C113	225.00	61°46'37"	242.60	231.02'	S59°43'37"E
C114	96.00	90°00'00"	150.80	135.76'	N44°23'05"E
C115	154.00	90°00'00"	241.90	217.79'	N44°23'05"E
C116	74.00	89°40'32"	115.82	104.36'	N44°32'49"E
C117	132.00	89°40'32"	206.60	186.15'	N44°32'49"E
C118	309.00	22°54'56"	123.59	122.76'	S78°09'27"E
C119	251.00	22°54'56"	100.39	99.72'	S78°09'27"E
C120	71.00	16°38'48"	20.63	20.56'	N76°01'23"W
C121	129.00	19°19'25"	43.51	43.30'	N77°21'41"W

SAVED 2/23/2024 2:26:23 PM BY BILL SEKSON
 PLOTTED 2/23/2024 2:26:44 PM BY BILL SEKSON
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