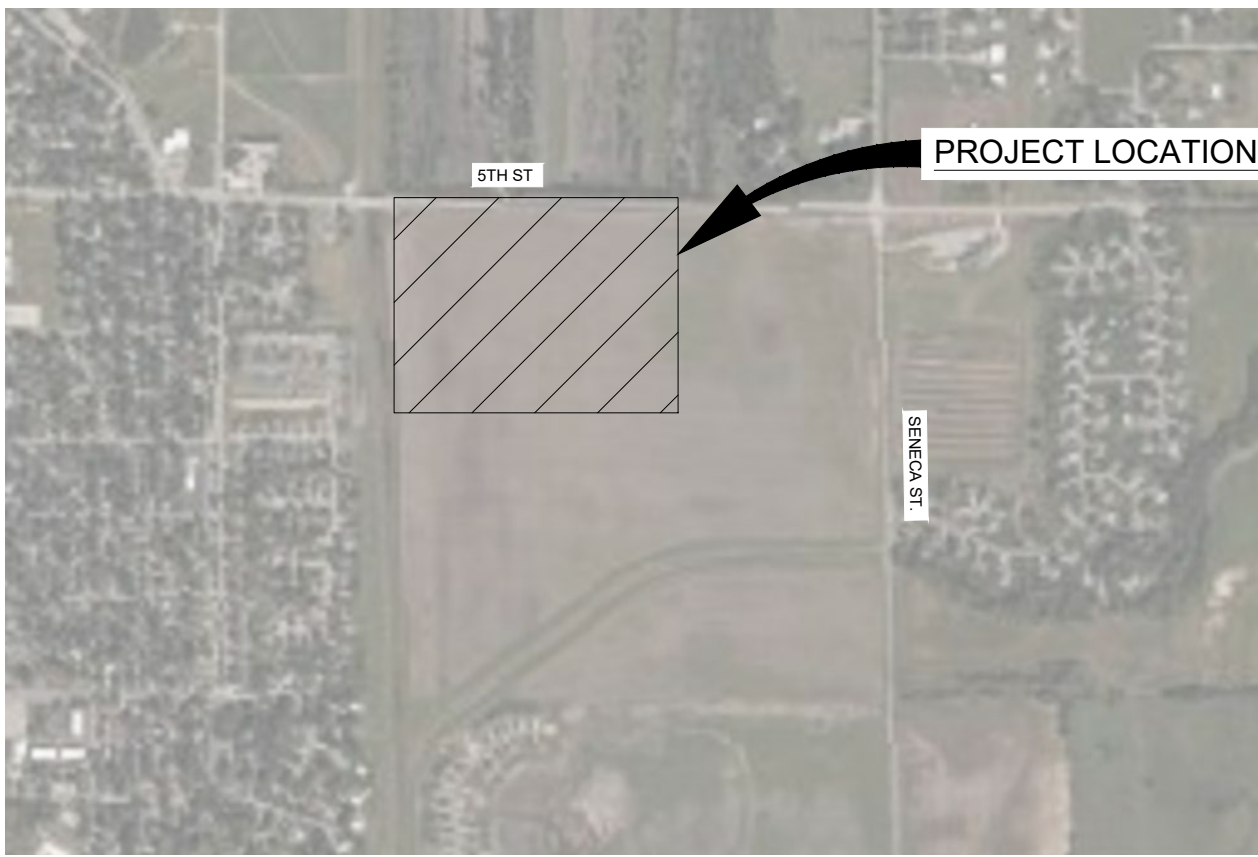


# AMBER RIDGE ADDITION

## PHASE I IMPROVEMENTS

VALLEY CENTER, KANSAS  
(ORIGINALLY TRAILS END)

PAVING, STORM SEWER, SANITARY SEWER, WATER MAIN,  
SITE GRADING, EROSION CONTROL



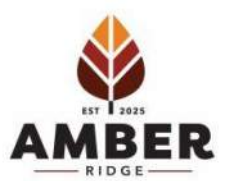
GOVERNING SPECIFICATIONS

THE CITY OF VALLEY CENTER "STANDARD SPECIFICATIONS FOR PAVING, DRAINAGE, WATERLINE, AND SANITARY SEWER IMPROVEMENTS" AND STANDARD DETAILS AS APPROVED ON APRIL 19, 2021, UNDER KDHE PROJECT NO. PW007291 SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE KANSAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	CONTROL SHEET
4	TYPICAL SECTIONS
5	EROSION CONTROL PLAN
6	SANITARY SEWER INDEX MAP
7-11	SANITARY SEWER PLAN & PROFILE
12	SANITARY SEWER - SERVICES
13	STORM SEWER INDEX MAP
14-16	STORM SEWER PLAN & PROFILE
17	WATER INDEX MAP
18-22	WATER MAIN PLAN & PROFILE
23	STREET INDEX MAP
24-28	STREET PLAN & PROFILE
29-31	INTERSECTION SHEETS
32-33	SIDEWALK PLAN SHEETS
VALLEY CENTER STANDARD DETAILS	
C-501	TYPICAL PAVING SECTIONS
C-502	CONCRETE PAVEMENT & JOINTING DETAILS
C-503	CONCRETE VALLEY GUTTER DETAILS
C-504	REINFORCED CONCRETE DRIVE DETAILS
C-505	SIDEWALK DETAILS
C-506	BEDDING & BACKFILL DETAILS
C-507	STORM SEWER PRECAST CONCRETE MANHOLE
C-510	TYPE 1 CURB INLET DETAILS
C-514	SANITARY SEWER PRECAST MANHOLE DETAILS
C-515	SANITARY SEWER SERVICE CONNECTION DETAILS
C-516	WATERLINE DETAILS 1
C-517	WATERLINE DETAILS 2
47-48	FINAL PLAT
THIS PLAN CONTAINS 48 SHEETS.	


### PROJECT LOCATION



VALLEY CENTER, KS

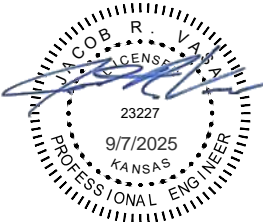


I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF KANSAS.

Signature:  JAKE VASA, PE  
Date: 9/7/2025 Lic. No. 23227

PROJECT NO.  
HORCA 185490  
  
1  
of 48

NOTE:  
CONTRACTOR SHALL LOCATE ANY / ALL EXISTING UTILITES PRIOR TO ANY SITE WORK (BOTH HORIZONTALLY AND VERTICALLY). THE DESIGN ENGINEER WILL NOT BE RESPONSIBLE FOR DAMAGES TO ANY EXISTING UTILITIES OR FOR ANY CONFLICTS THAT MAY ARISE DUE TO ANY UTILITES NOT PROPERLY LOCATED. CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR



Know what's below.  
Call before you dig.

Save: 8/28/2025 10:56 AM odeacy Plot: 9/7/2025 10:39 AM X:\F\JH\HORCA1854905-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet185490\_GN.dwg

PROJECT NOTES

1.

CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION. KANSAS ONE-CALL (316) 687-2470. CONTRACTOR EMERGENCY CONTACTS:

AT&T

1-800-246-8464

COX COMM

1-888-249-3530

EVERGY

1-800-544-4857

KANSAS GAS

1-888-482-4950
2.

ANY LANDSCAPING, ROCK, PAVERS OR OTHER MISCELLANEOUS ITEMS IN THE RIGHT OF WAY THAT WILL BE REMOVED WITH THIS PROJECT, MUST BE SALVAGED AND REPLACED IN A SIMILAR LOCATION AS PREVIOUS BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED SUBSIDIARY.
3.

CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING ANY IRRIGATION DISTURBED DURING CONSTRUCTION.
4.

TOPSOILING AND EARTH SHOULDERING WILL BE CONSIDERED SUBSIDIARY TO THE 'EMBANKMENT' PAY ITEM.
5.

CONTRACTOR SHALL PROVIDE ALL STAKING FOR THE PROJECT. CAD FILES OF ALL DESIGN INFORMATION SHALL BE MADE AVAILABLE TO THE CONTRACTOR FOR STAKING PURPOSES.
6.

ALL MATERIAL TESTING SHALL BE PAID FOR BY THE CITY, ALL RETESTS SHALL BE PAID FOR BY THE CONTRACTOR.
7.

THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND DETERMINE LOCATION AND ELEVATIONS OF THE EXISTING AND PROPOSED PAVEMENT, WHICH SHALL FOLLOW THE GENERAL DRAINAGE SHOWN ON THE GRADES AND ROADWAY PROFILES.
8.

ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, OR BACK OF CURB, FOLLOW WRITTEN DIMENSIONS ALWAYS.
9.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

PAVING NOTES

1.

THE PROPOSED CONTOURS REPRESENT TOP OF SLAB, TOP OF CURB, OR TOP OF SIDEWALK IN PAVEMENT, IN ALL OTHER AREAS, THEY REPRESENT THE FINISHED GROUND SURFACE.
2.

THE EXISTING AND PROPOSED FINISHED GROUND SURFACES ARE AVAILABLE ELECTRONICALLY FOR CONTRACTOR VERIFICATION VIA E-MAIL (IN AUTOCAD 2007 FORMAT). THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXISTING GROUND SURFACE ELEVATIONS.
3.

ALL LINES SHOWN REPRESENTING PAVEMENT ARE TO BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
4.

CONTRACTOR WILL BE HELD RESPONSIBLE FOR SETTLEMENT DUE TO IMPROPER COMPACTION.
5.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
6.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY GRADING WILL TAKE PLACE BEYOND THE RIGHT OF WAY LINE.
7.

ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF GRADING
8.

EXPANSION JOINTS SHALL BE BUILT AS SHOWN FOR PAVING. EXPANSION JOINTS FOR SIDEWALKS SHALL BE  $\frac{1}{2}$ " EXPANSION MATERIAL PLACED EVERY 100 LINEAR FEET OF SIDEWALK.
9.

INTERSECTIONS SHALL BE BUILT PER STANDARD DETAILS TO ALLOW FOR THROUGH DRAINAGE IN THE GUTTER LINE. INTERSECTION GRADES AND DRAINAGE SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

SANITARY SEWER NOTES

1.

SANITARY SEWERS SHALL BE SEPARATED BY AT LEAST 10 FT. HORIZONTALLY FROM ANY EXISTING OR PROPOSED PARALLEL WATER MAINS, MEASURED EDGE TO EDGE.
2.

PRIOR TO FINAL ACCEPTANCE ALL SEWER MAIN SHALL BE AIR TESTED BY THE CONTRACTOR IN ACCORDANCE WITH CITY OF VALLEY CENTER SPECIFICATIONS.
3.

PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL HAVE THE SEWER MAIN TV INSPECTED AND THE COST OF SUCH WORK SHALL BE SUBSIDIARY TO THE PRICE BID FOR SEWER WITH INSTALLATION.
4.

PRIOR TO FINAL ACCEPTANCE, VACUUM TESTING SHALL BE PERFORMED ON ALL MANHOLES TO CONFORM TO THE REQUIREMENTS OF STANDARD TEST METHOD FOR CONCRETE MANHOLES BY THE "NEGATIVE AIR PRESSURE (VACUUM) TEST" ASTM DESIGNATION C-1244.
5.

SANITARY SEWER PIPE SHALL BE PVC SDR 35 FOR 8". PIPE BEDDING SHALL MEET LOCAL STANDARD PLANS.
6.

SANITARY SEWER MANHOLES SHALL BE 48" I.D. AND MEET VALLEY CENTER STANDARD DETAILS & SPECIFICATIONS, UNLESS OTHERWISE NOTED ON THE PLANS.
7.

ALL SANITARY SEWER PIPE, INCLUDING SERVICE LATERALS, UNDER PAVEMENT AND WITHIN 3' OUTSIDE OF PAVEMENT LIMITS SHALL BE BACKFILLED ACCORDING TO VALLEY CENTER SPECIFICATIONS, REQUIRING FLUSHED AND VIBRATED SAND UP TO THE SUBGRADE ELEVATION.

WATER MAIN NOTES

1.

THE WATER DISTRIBUTION DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FINAL GRADES BY THE CONTRACTOR.
2.

OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTIONS SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
3.

THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE(S) SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.
4.

REQUESTS FOR SHORT TERM WATER INTERRUPTIONS SHALL BE MADE TO THE CITY WATER DISTRIBUTION DIVISION AND WILL BE SUBJECT TO THEIR APPROVAL. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATIONS SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANTS SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PREFORMED DURING NON-PEAK HOURS.
5.

THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAIN WITH THE CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR COMPLETING WORK FOR CITY APPROVAL AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION.
6.

DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURES RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE FITTINGS.
7.

ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED WATER MAIN JOINT.
8.

VALVES 12 INCH AND LARGER ARE TO BE OPERATED BY THE VALLEY CENTER WATER DISTRIBUTION DIVISION, 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 1-316-755-7320.
9.

THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTORS EXPENSE.
10.

CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
11.

MAINTAIN A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER LINES (MAINS, SERVICES, AND FIRE HYDRANTS) AND ALL SANITARY SEWER LINES (MAIN, SERVICES, AND MANHOLES). ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
12.

MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAIN AND SERVICES) AND ALL GRAVITY SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES) AT CROSSINGS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
13.

MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MAINS AND SERVICES) AT CROSSINGS. WATERLINES MUST ALWAYS BE PLACED ABOVE PRESSURIZED SANITARY SEWER LINES WHERE THEY CROSS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
14.

FOR DETAILS OF TYPICAL HYDRANT INSTALLATIONS, SEE CITY OF VALLEY CENTER STANDARD PLANS.
15.

PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE PRESSURE TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF VALLEY CENTER SPECIFICATIONS.
16.

PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE DISINFECTED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF VALLEY CENTER SPECIFICATIONS.
17.

ALL WATER MAIN PIPE UNDER PAVEMENT AND WITHIN 3' OUTSIDE OF PAVEMENT LIMITS SHALL BE BACKFILLED ACCORDING TO VALLEY CENTER SPECIFICATIONS, REQUIRING FLUSHED AND VIBRATED SAND UP TO THE SUBGRADE ELEVATION.

GRADING NOTES

1.

THE PROPOSED CONTOURS REPRESENT TOP OF SLAB, TOP OF CURB, OR TOP OF SIDEWALK IN PAVEMENT, IN ALL OTHER AREAS, THEY REPRESENT THE FINISHED GROUND SURFACE.
2.

IN ALL AREAS OF EXCAVATION FOR SLABS OR FOOTINGS, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
3.

THE EXISTING AND PROPOSED FINISHED GROUND SURFACES ARE AVAILABLE ELECTRONICALLY FOR CONTRACTOR VERIFICATION VIA E-MAIL (IN AUTOCAD 2007 FORMAT). THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXISTING GROUND SURFACE ELEVATIONS.
4.

ALL LINES SHOWN REPRESENTING PAVEMENT ARE TO BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
5.

CONTRACTOR WILL BE HELD RESPONSIBLE FOR SETTLEMENT DUE TO IMPROPER COMPACTION.
6.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS. CONTRACTOR SHALL BE RESPONSIBLE TO RESET ALL CORNERS DISTURBED.
7.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY GRADING WILL TAKE PLACE BEYOND THE RIGHT OF WAY LINE.
8.

ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF GRADING PRIOR TO PLACEMENT OF FILL MATERIAL AND REDISTRIBUTED WITH THE TOPSOIL. A STRIPPING DEPTH OF 6" IS ANTICIPATED ON THIS SITE.
9.

SUFFICIENT TOPSOIL SHOULD BE SALVAGED AND STOCKPILED BY THE CONTRACTOR FOR RE-SPREADING IN PERMANENT PLANTING AREAS, INCLUDING PARKING LOT ISLANDS AND GREEN SPACES. STOCKPILING AND RE-SPREADING OF TOPSOIL IS NOT A SEPARATE BID ITEM, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE SITE GRADING.
10.

TOPSOIL SALVAGED AS PART OF THE EXCAVATION SHALL BE PLACED TO A MINIMUM DEPTH OF 6 INCHES OVER ALL AREAS DISTURBED BY THE WORK. LARGE STONES, STICKS AND LUMPS SHALL BE REMOVED OR BROKEN UP, AND THE TOPSOIL SHALL BE LEVELED AND RAKED TO MATCH ADJACENT GRADES, READY FOR SEEDING. ANY ROCK OR SAND FROM PAVING ACTIVITIES SHALL BE REMOVED PRIOR TO PLACEMENT OF TOPSOIL. ALL EXCESS SOILS, NOT RE-SPREAD WITHIN THE PROJECT LIMITS, SHALL BE REMOVED BY THE CONTRACTOR.
11.

THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN ONE FOOT VERTICAL IN 3 FEET HORIZONTAL.
12.

CONTRACTOR SHALL GRADE ALL LOW SPOTS TO DRAIN, AND SHALL FOLLOW THE DRAINAGE ARROWS SHOWN ON THE PLANS. THE FINAL GRADED SITE SHALL NOT HOLD WATER IN ANY AREAS, ANY AREAS THAT HOLD WATER SHALL BE CORRECTED BY THE CONTRACTOR EITHER DURING CONSTRUCTION OR WITHIN THE CORRECTION PERIOD OF THE CONTRACT.
13.

THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE ENGINEER METHODS TO VERIFY POSITIVE DRAINAGE.
14.

CONTRACTOR SHALL GRADE TO CONTOURS SHOWN IN GREENSPACES.
15.

AT THE COMPLETION OF GRADING, THE CONTRACTOR SHALL REMOVE ANY EXCESS EXCAVATION FROM THE SITE TO THE PROPERTY DIRECTLY ADJACENT TO THE NORTH AND STOCKPILED ON THE SOUTHERN MOST EDGE OF THAT PROPERTY.
16.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSPECTIONS PRIOR TO COMMENCING CONSTRUCTION.
17.

CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES, IF NECESSARY.
18.

ANY GEOTECHNICAL/TESTING REPORTS SOLICITED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE OWNER AND THE ENGINEER.

REMOVAL NOTES

1.

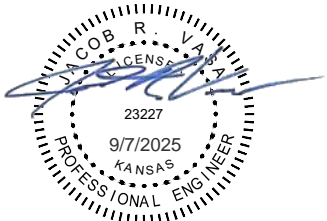
ALL MATERIAL REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAUL OFF SITE, IF NECESSARY AND DISPOSE OF, UNLESS CALLED OUT SPECIFICALLY IN THE PLANS OR SPECIFICATIONS.
2.

ALL EXISTING SIGNS TO BE REMOVED AND SALVAGED TO THE CITY BY THE CONTRACTOR.
3.

ANY EXISTING PAVEMENT OR MATERIAL THAT IS NOT TO BE REMOVED, BUT IS DAMAGED BY THE CONTRACTOR, SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY ENGINEER.
4.

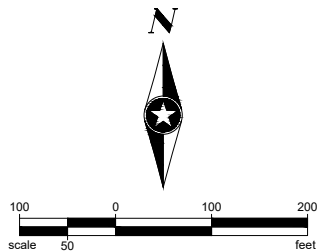
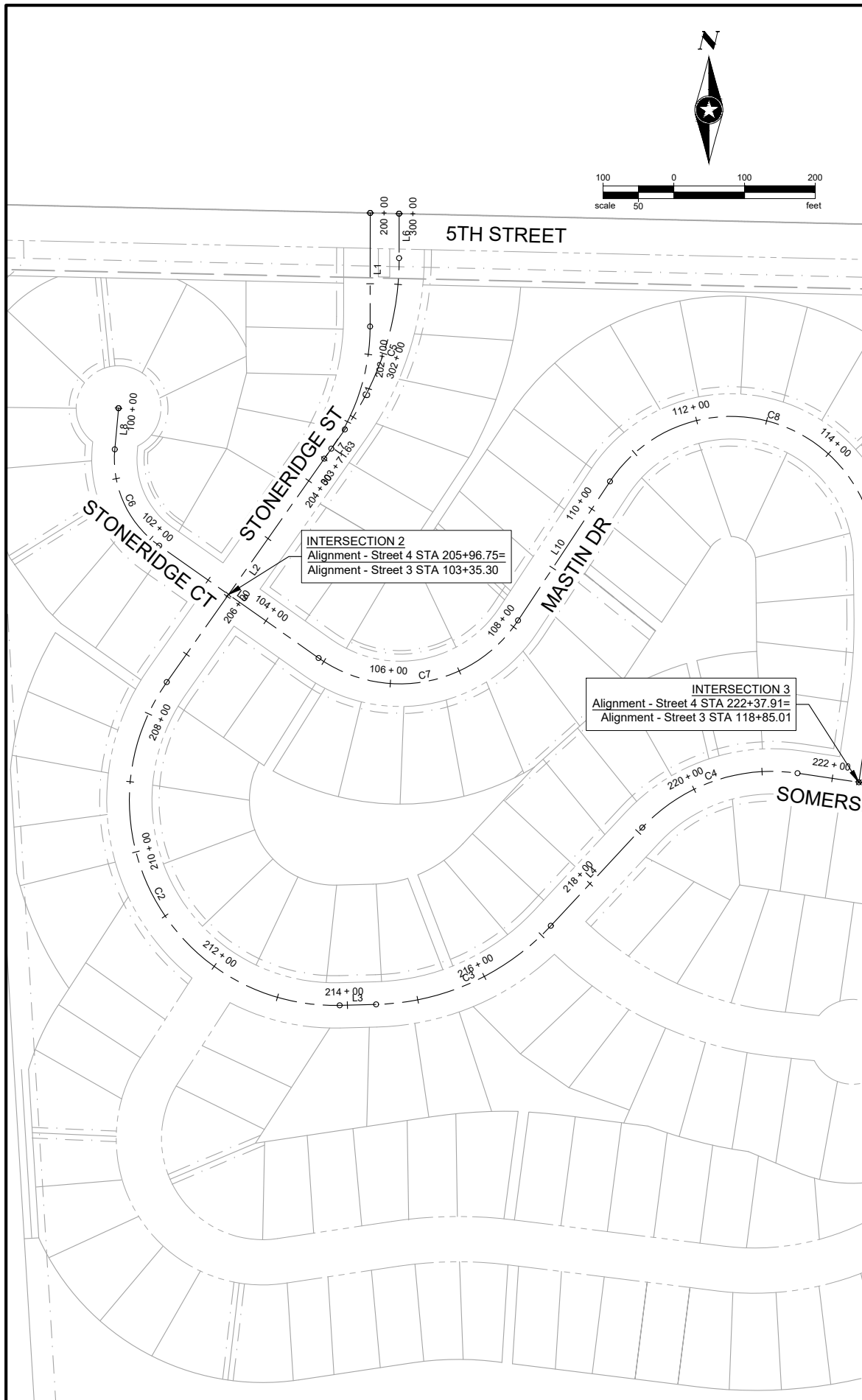
CONTRACTOR MUST GIVE 48 HOURS NOTICE PRIOR TO REMOVALS TO THE CITY ENGINEER.
5.

REMOVAL LIMITS SHALL BE MARKED BY THE ENGINEER PRIOR TO REMOVAL WORK.



SEH Project	HORCA185490	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date		AMBER RIDGE - PHASE 1	VALLEY CENTER, KANSAS	GENERAL NOTES	2 of 48
Drawn By	--	.			.							
Designed By	--	.			.							
Checked By	--	.			.							





ALIGNMENT TABULATION - ALIGNMENT - STREET 3															
POINT ID	POINT	RADIUS	STATION	DELTA	TANGENT	LENGTH	NORTHING	EASTING	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
C6		150.00	100+58.40	060° 01' 53"	86.66	157.16	1740953.5285	1640933.1745		100+58.40	102+15.57	1740953.5285	1640933.1745	1740817.2972	1640996.1223
C7		200.00	104+91.10	091° 42' 24"	206.05	320.12	1740658.5349	1641221.3136		104+91.10	108+11.21	1740658.5349	1641221.3136	1740711.6737	1641503.3757
C8		205.00	110+46.84	145° 53' 38"	668.31	522.00	1740908.2104	1641633.3494		110+46.84	115+68.84	1740908.2104	1641633.3494	1740797.3793	1642009.3281
C9		700.00	116+53.57	009° 02' 16"	55.32	110.42	1740712.6519	1642010.2576		116+53.57	117+63.99	1740712.6519	1642010.2576	1740602.6020	1642002.7737
L8			100+00.00			58.40	1741011.6909	1640938.4838	S 05° 12' 56" W	100+00.00	100+58.40	1741011.6909	1640938.4838	1740953.5285	1640933.1745
L9			102+15.57			275.53	1740817.2972	1640996.1223	S 54° 48' 57" E	102+15.57	104+91.10	1740817.2972	1640996.1223	1740658.5349	1641221.3136
L10			108+11.21			235.63	1740711.6737	1641503.3757	N 33° 28' 39" E	108+11.21	110+46.84	1740711.6737	1641503.3757	1740908.2104	1641633.3494
L11			115+68.84			84.73	1740797.3793	1642009.3281	S 00° 37' 43" E	115+68.84	116+53.57	1740797.3793	1642009.3281	1740712.6519	1642010.2576
L12			117+63.99			121.02	1740602.6020	1642002.7737	S 08° 24' 34" W	117+63.99	118+85.01	1740602.6020	1642002.7737	1740482.8812	1641985.0749

## BENCHMARKS

VERTICAL DATUM (NAVD88):  
ELEVATION BASED UPON GPS OBSERVATION SUBMITTED TO NATIONAL GEODETIC  
SURVEY & PROCESSED THROUGH OPUS SOFTWARE.

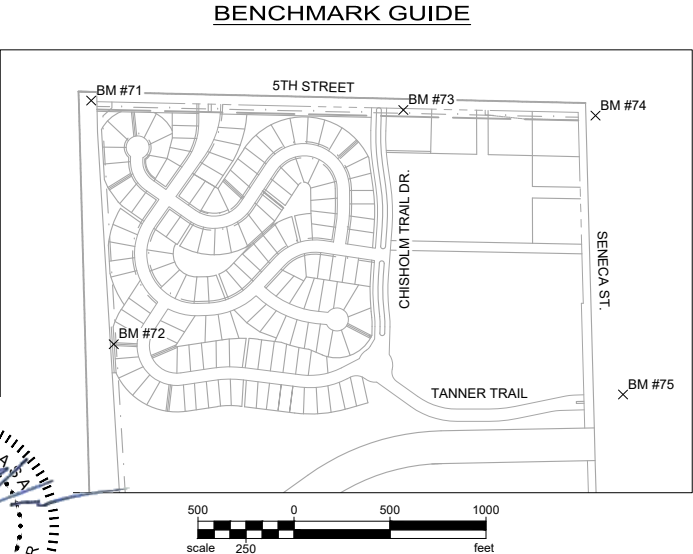
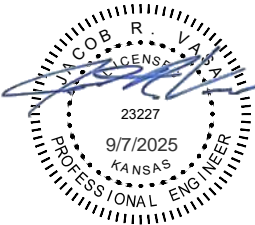
SITE BENCHMARK 1:  
BM #71 - CHISELED "X" CUT ON SE CORNER OF FLOOD GATE VALVE, ON THE SOUTH  
SIDE OF 5TH STREET, SE OF BRIDGE OVER FLOOD CANAL.  
ELEV 1353.46 (NAVD88)

SITE BENCHMARK 2:  
BM #72 - CHISEL "X" ON EAST SIDE OF SANITARY MANHOLE RIM, APPROXIMATELY  
1400' SOUTH OF 5TH STREET, ON EAST SIDE OF FLOOD CANAL.  
ELEV 1348.55 (NAVD88)

SITE BENCHMARK 3:  
BM #73 - CHISELED "X" ON NW CORNER OF ELECTRIC TRANSFORMER CONCRETE PAD  
SOUTH SIDE OF 5TH STREET, APPROXIMATELY 1000' WEST OF SENECA ST.  
ELEV 1348.97 (NAVOD88)

SITE BENCHMARK 4:  
BM #74 - CHISEL "X" ON SW CORNER OF ELECTRIC TRANSFORMER CONCRETE PAD  
SE OF INTERSECTION OF 5TH STREET AND SENECA ST.  
ELEV 1347.34 (NAVD88)

SITE BENCHMARK 5:  
BM #75 - CHISEL "X" ON WEST SIDE OF SANITARY MANHOLE RIM, NORTH SIDE OF  
TANNER TRAIL RD., APPROXIMATELY 150' EAST OF SENECA ST.  
ELEV 1354.35 (NAVD88)

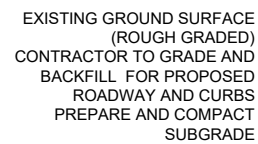


POINT ID	POINT	RADIUS	STATION	DELTA	TANGENT	LENGTH	NORTHING	EASTING	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
C1		300.00	201+60.53	035° 07' 27"	94.95	183.91	1741127.0684	1641294.1763		201+60.53	203+44.44	1741127.0684	1641294.1763	1740954.5208	1641239.3675
C2		290.00	207+48.15	126° 39' 07"	577.25	641.04	1740624.5599	1641006.7416		207+48.15	213+89.20	1740624.5599	1641006.7416	1740167.5549	1641251.1869
C3		350.00	214+40.69	045° 32' 28"	146.91	278.19	1740168.8736	1641302.6596		214+40.69	217+18.88	1740168.8736	1641302.6596	1740280.0982	1641549.7057
C4		250.00	219+08.56	055° 25' 05"	131.30	241.81	1740418.8435	1641679.0483		219+08.56	221+50.37	1740418.8435	1641679.0483	1740495.6838	1641898.4737
L1			200+00.00			160.53	1741287.5943	1641294.3447	S 00° 03' 36" W	200+00.00	201+60.53	1741287.5943	1641294.3447	1741127.0684	1641294.1763
L2			203+44.44			403.72	1740954.5208	1641239.3675	S 35° 11' 03" W	203+44.44	207+48.15	1740954.5208	1641239.3675	1740624.5599	1641006.7416
L3			213+89.20			51.49	1740167.5549	1641251.1869	N 88° 31' 57" E	213+89.20	214+40.69	1740167.5549	1641251.1869	1740168.8736	1641302.6596
L4			217+18.88			189.68	1740280.0982	1641549.7057	N 42° 59' 29" E	217+18.88	219+08.56	1740280.0982	1641549.7057	1740418.8435	1641679.0483
L5			221+50.37			317.88	1740495.6838	1641898.4737	S 81° 35' 26" E	221+50.37	224+68.25	1740495.6838	1641898.4737	1740449.1955	1642212.9371

ALIGNMENT TABULATION - ALIGNMENT - STREET 6															
POINT ID	POINT	RADIUS	STATION	DELTA	TANGENT	LENGTH	NORTHING	EASTING	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
C5		420.00	300+62.97	035° 11' 03"	133.17	257.91	1741223.7025	1641335.2584		300+62.97	303+20.88	1741223.7025	1641335.2584	1740981.6953	1641258.5258
L6			300+00.00			62.97	1741286.6716	1641335.2584	S 00° 00' 00" E	300+00.00	300+62.97	1741286.6716	1641335.2584	1741223.7025	1641335.2584
L7			303+20.88			50.75	1740981.6953	1641258.5258	S 35° 11' 03" W	303+20.88	303+71.63	1740981.6953	1641258.5258	1740940.2159	1641229.2824

SEH Project	HORCA185490	Rev.#		Revision Issue Description		Date		Revision Issue Description		Date		 <div>AMBER RIDGE - PHASE 1</div> <div>VALLEY CENTER, KANSAS</div>	CONTROL SHEET	3 of 48
Drawn By	--	.												
Designed By	--	.												
Checked By	--	.												

1. MIN. LONGITUDINAL JOINT SPACING SHALL BE 8' AND MAX IS 13'
2. MIN. TRANSVERSE JOINT SPACING SHALL BE 8' AND MAX. IS 12'
3. EXPANSION JOINTS SHALL BE PLACED EVERY 600' MAX. OR AS SHOWN ON THE PLANS FOR CONCRETE PAVING, AND CONCRETE CURB AND GUTTER.
4. ALL CRUSHED ROCK BASE SHALL BE REINFORCED WITH GEOGRID
5. EXPANSION JOINT SHALL BE PLACED WHERE SHOWN ON THE PLANS.
6. ALL SIDEWALKS SHALL BE PLACED ON 6" OF COMPACTED SUBGRADE, COMPACTION SHALL BE 95% STD. PROCTOR (ASTM D698), THIS SHALL BE CONSIDERED SUBSIDIARY TO SIDEWALK BID ITEMS
7. ALL SUBGRADE SHALL BE 6" OF SCARIFIED AND MOISTURE CONDITIONED SOIL COMPACTED TO 95% STD. PROCTOR (ASTM D698), THIS SHALL BE CONSIDERED SUBSIDIARY TO PAVEMENT BID ITEMS



ALIGNMENT 3 STA. 100+68.96 - STA. 102+97.30  
ALIGNMENT 3 STA. 103+73.30 - STA. 118+47.01  
ALIGNMENT 4 STA. 203+44.44 - STA. 207+78.47  
ALIGNMENT 4 STA. 220+46.94 - STA. 224+03.63

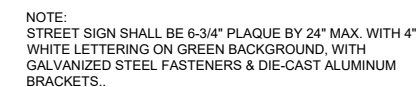


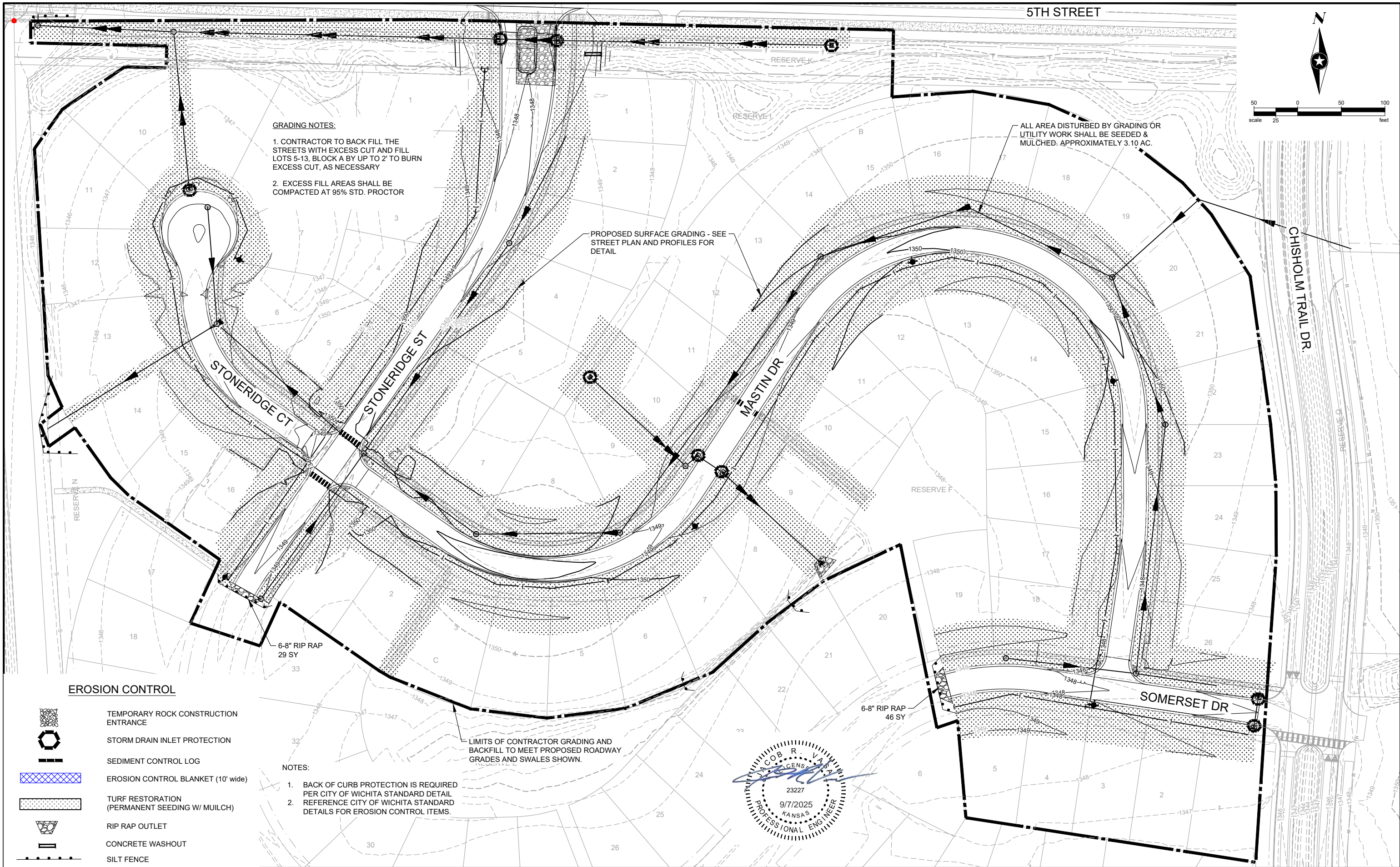
Diagram illustrating the dimensions and forces on a sign post:

- Sign Post
- Sign
- Ground Line
- Bottom of Sign Post
- Bottom of Post Anchor
- Dimensions: 36", 6", 1 1/2"
- Forces: B, C



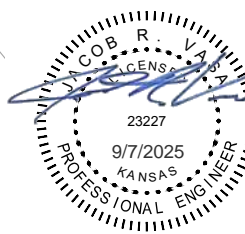
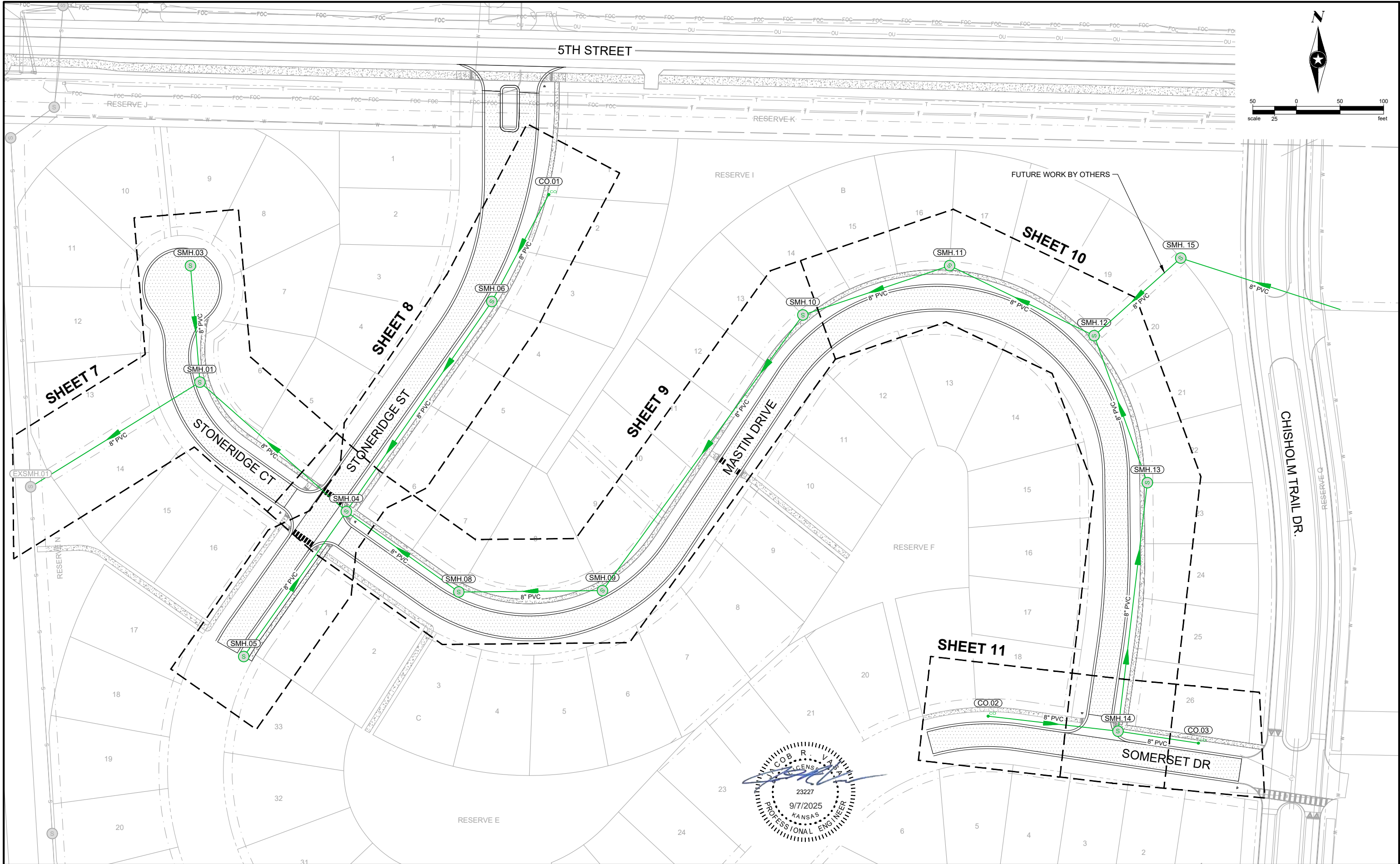


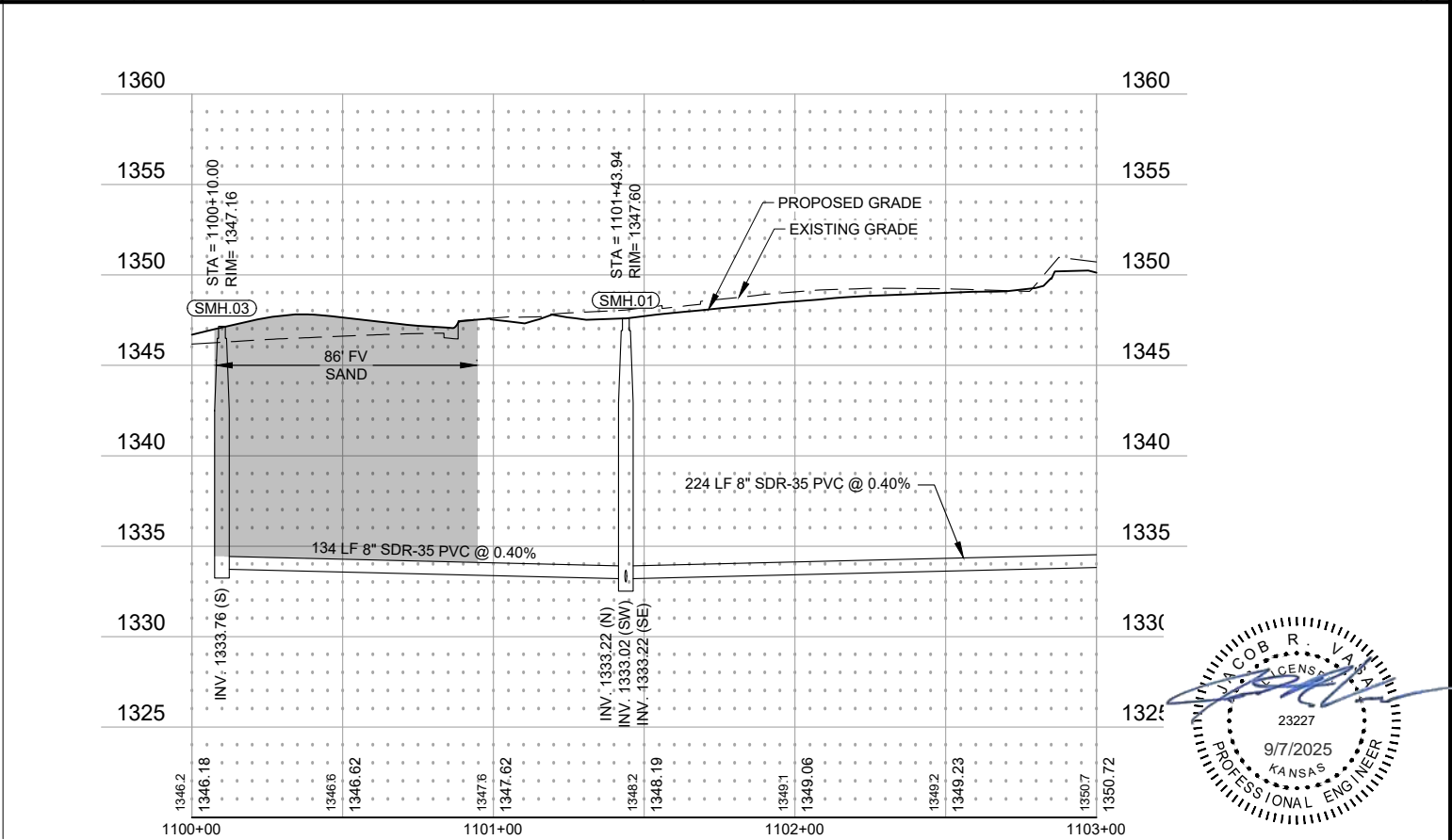
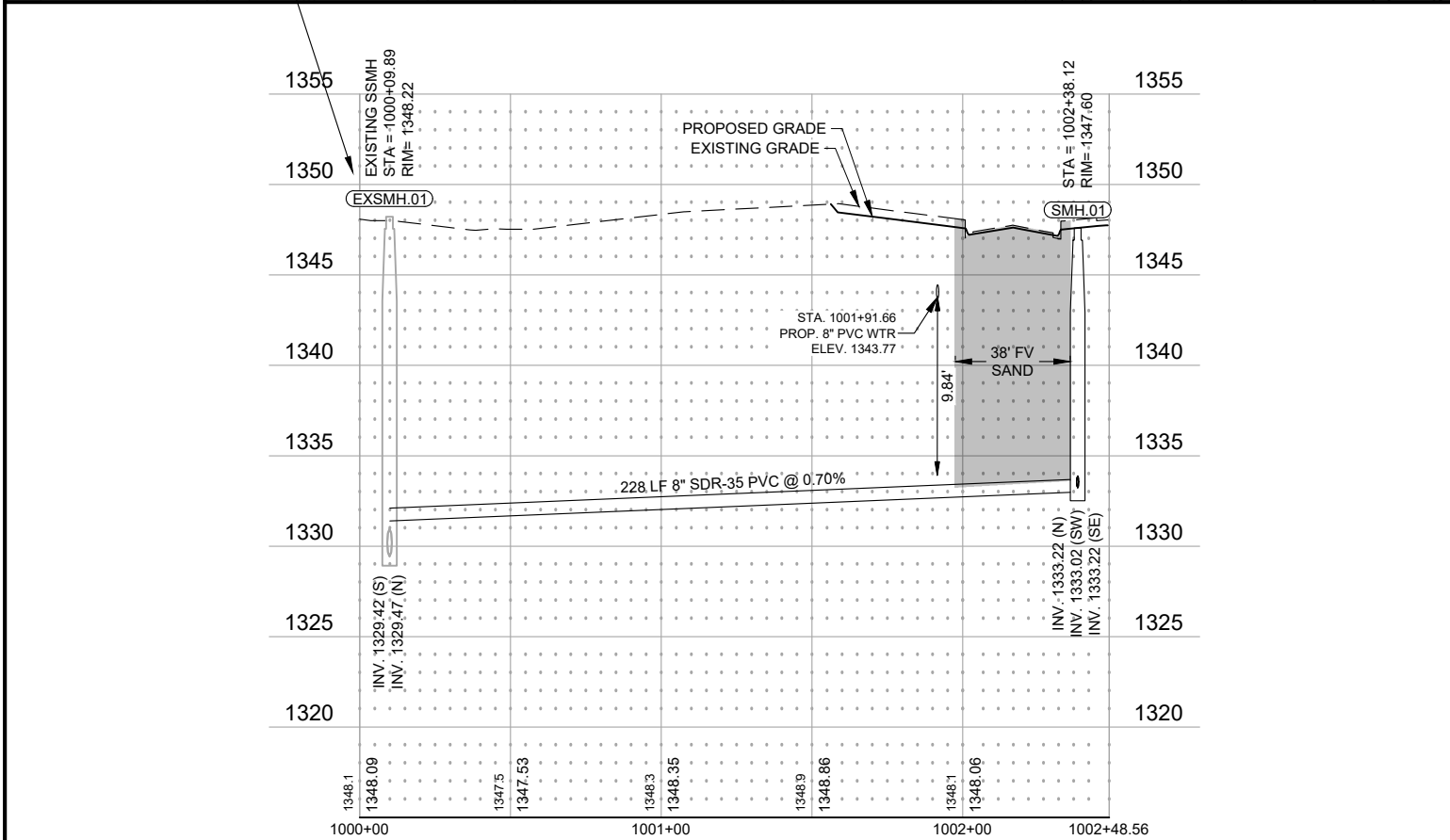
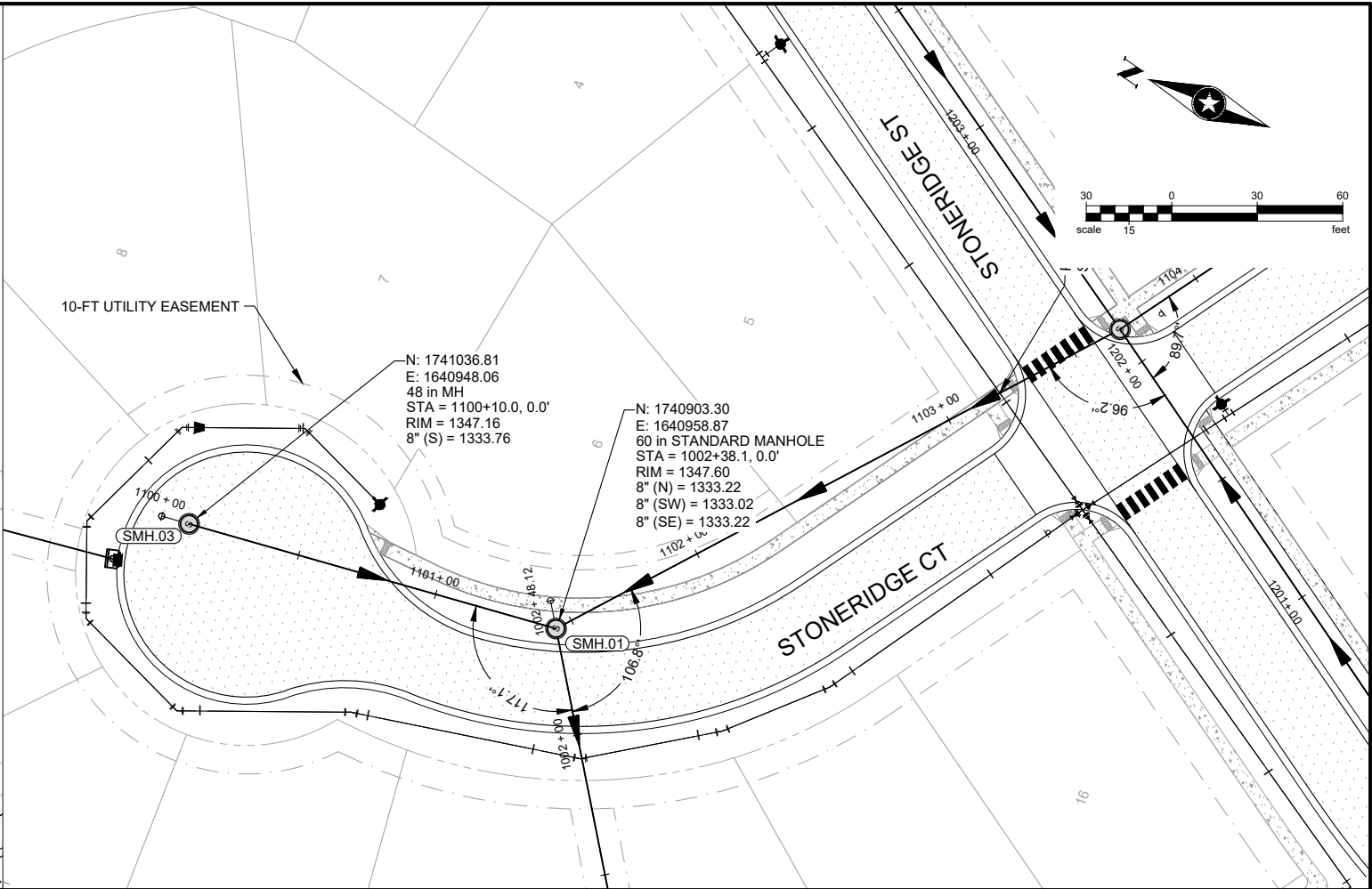
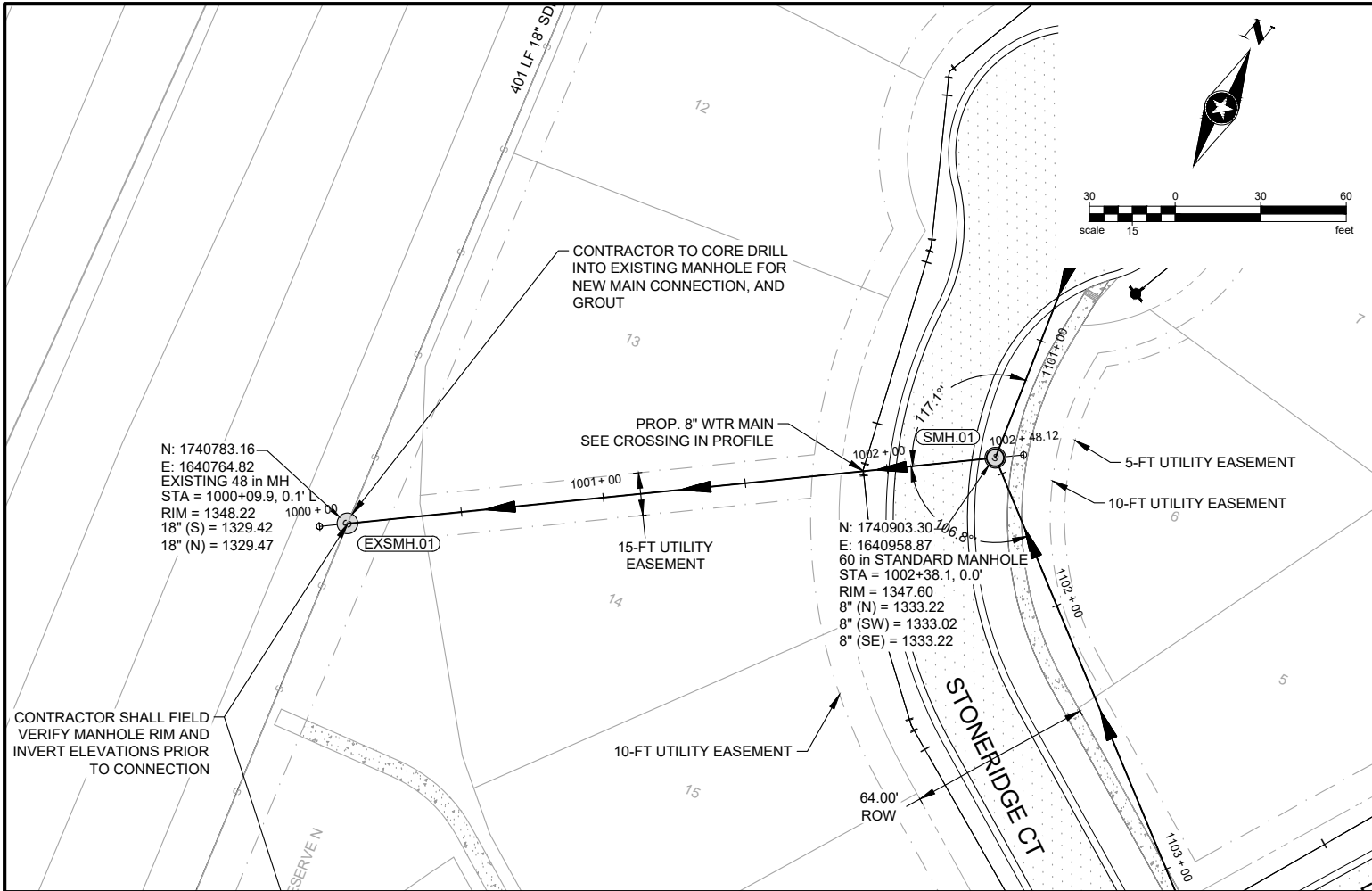
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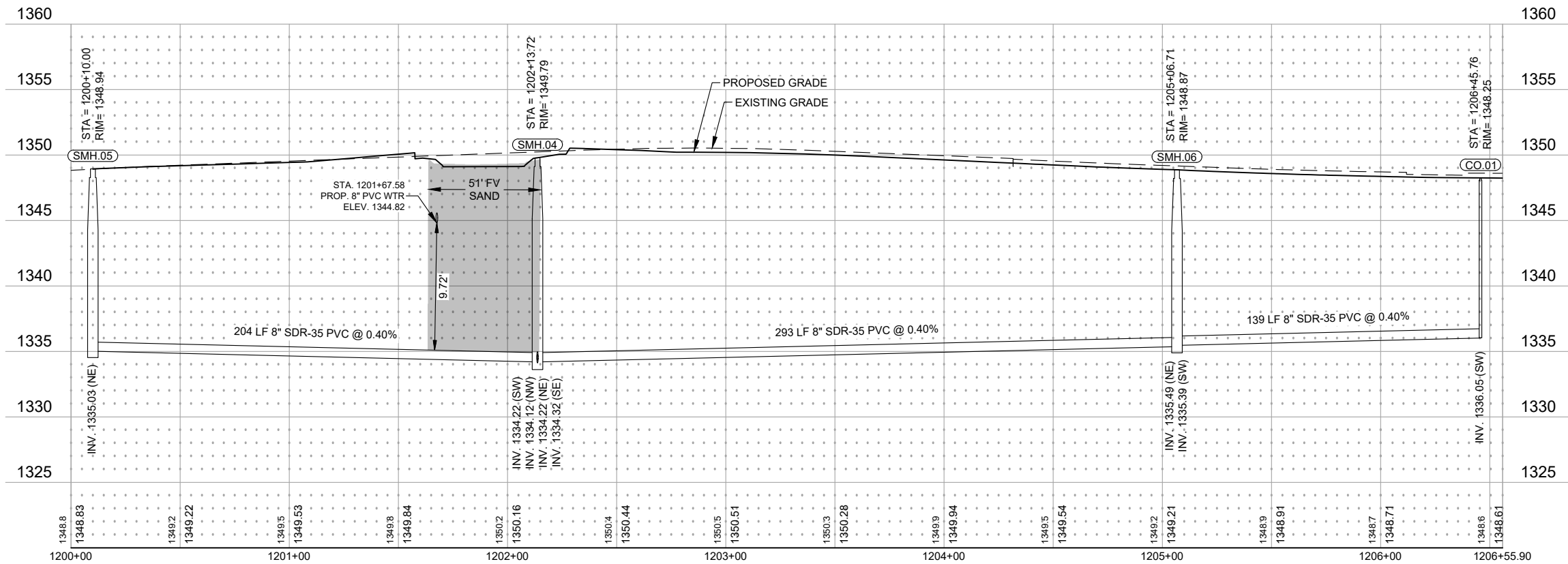
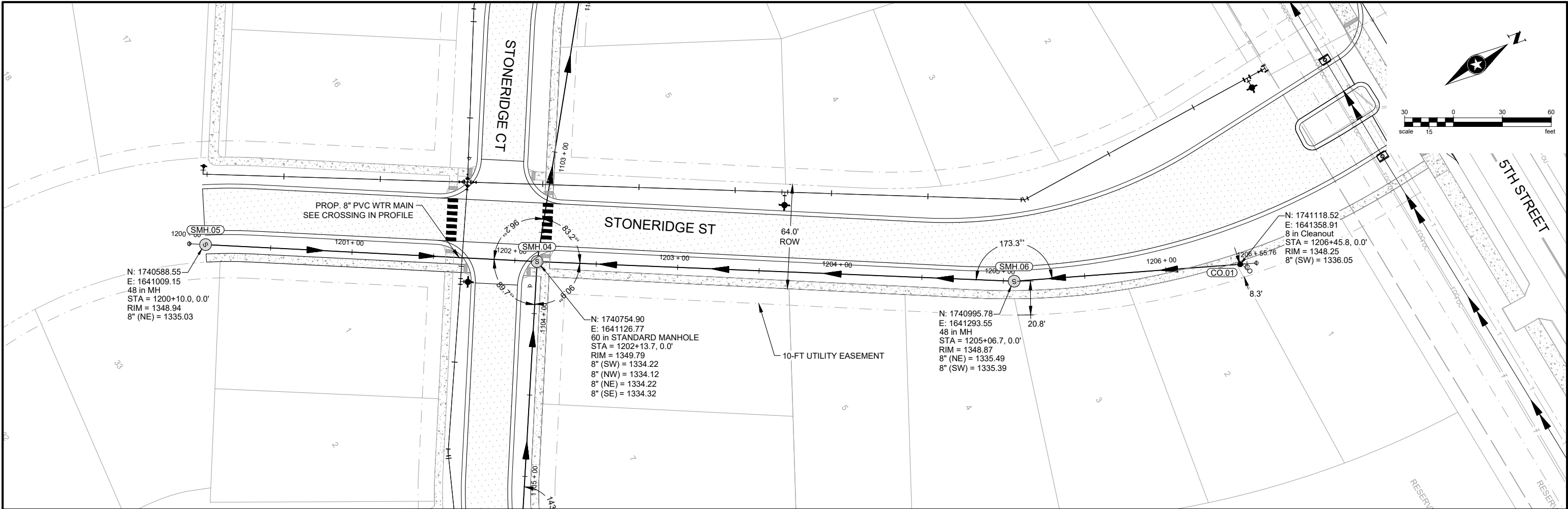


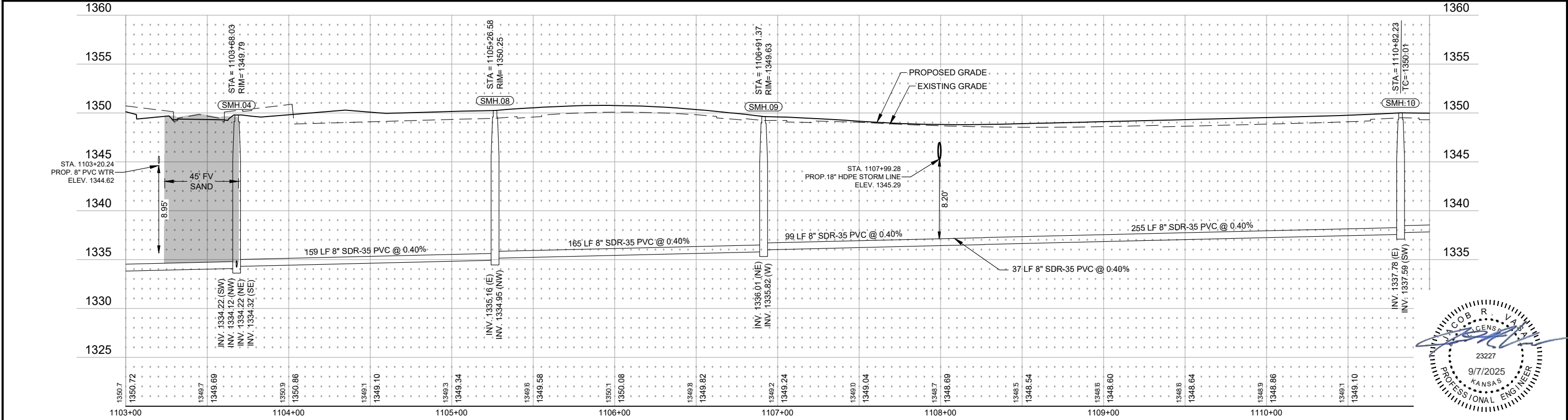
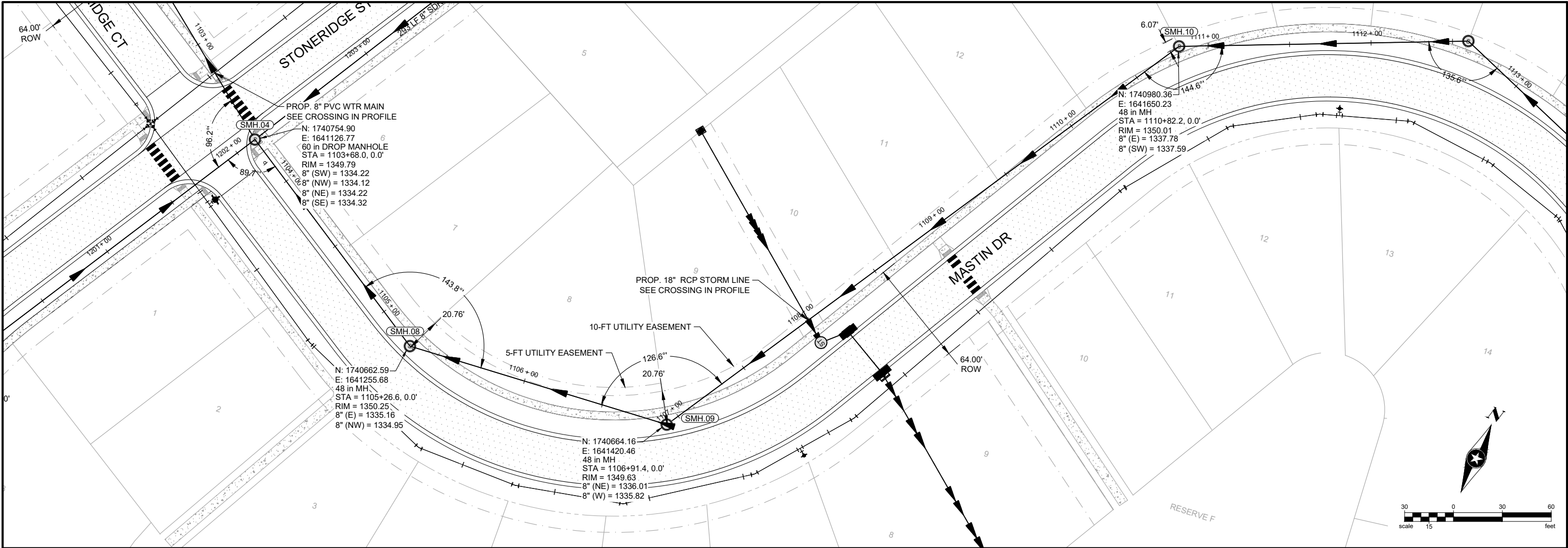
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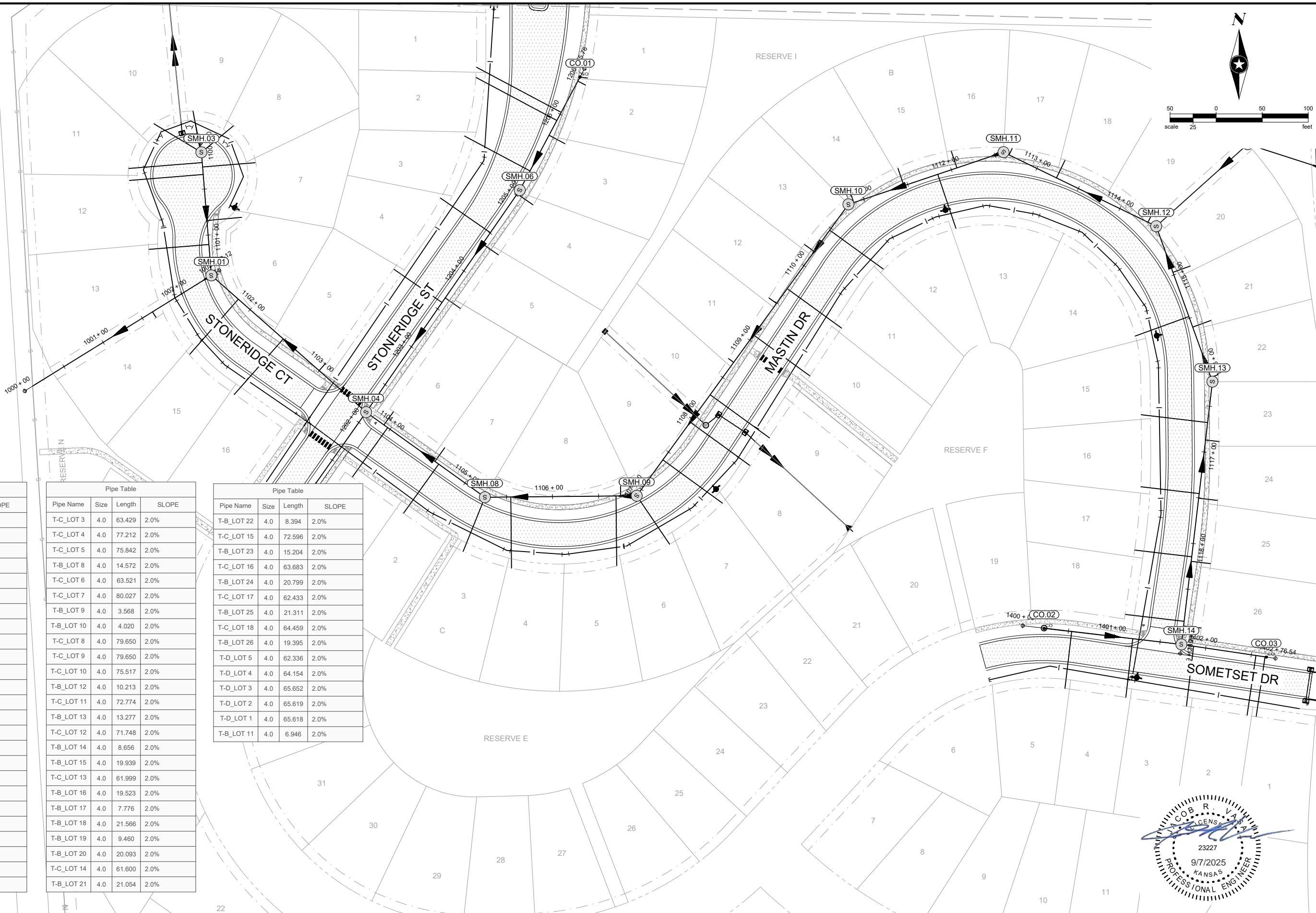




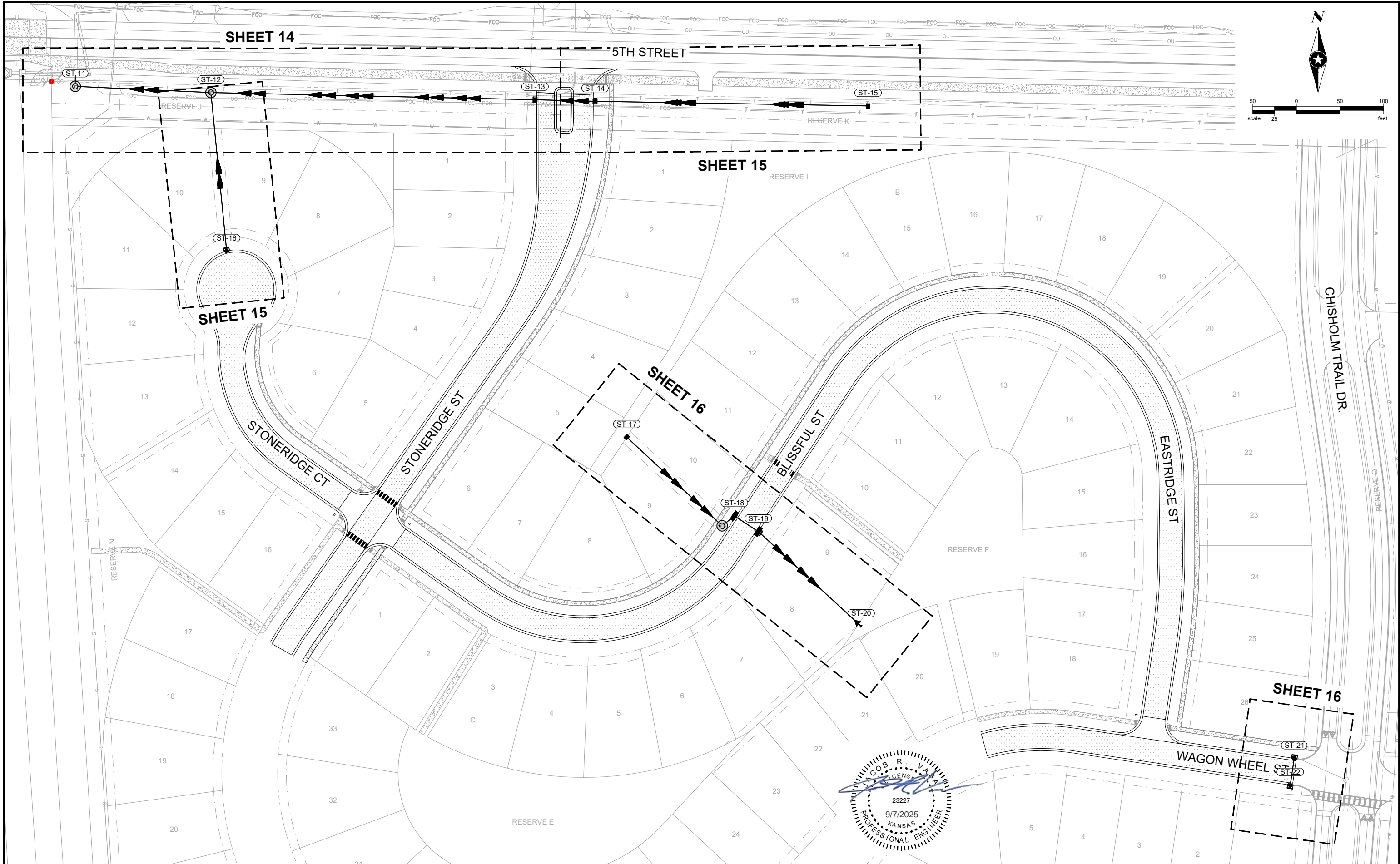






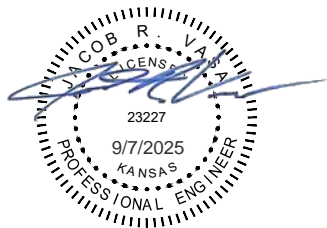
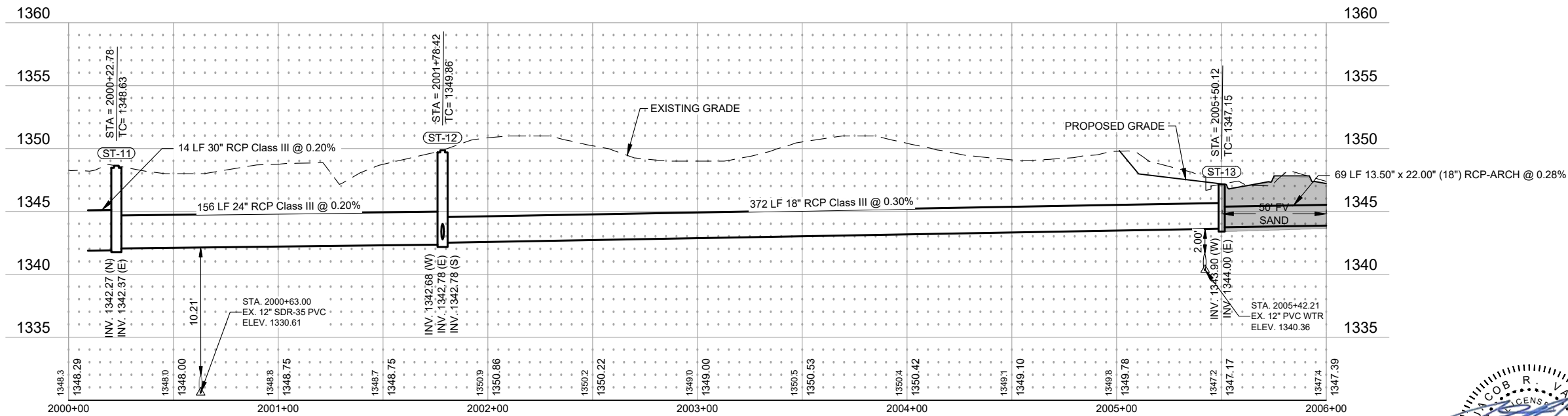
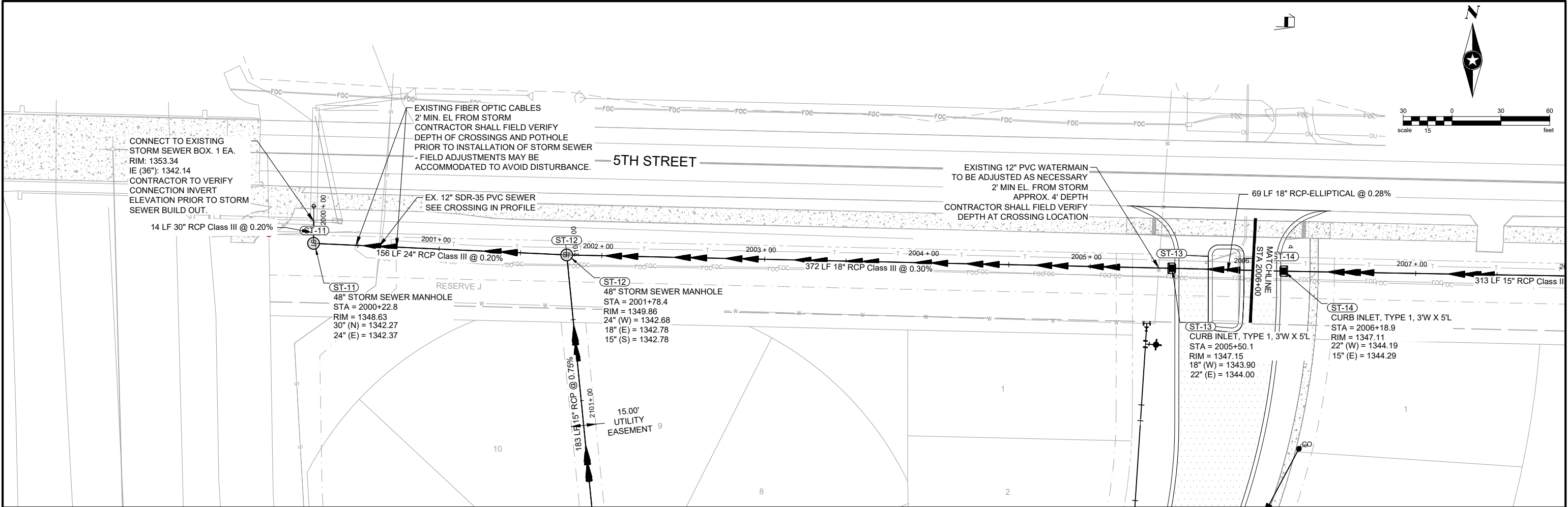


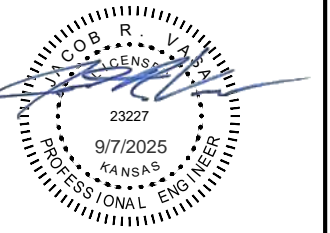
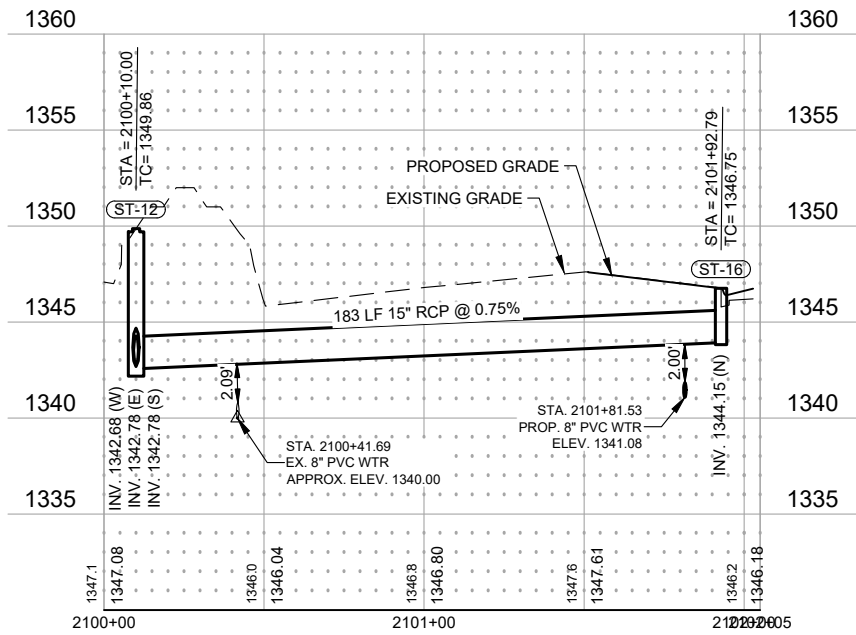
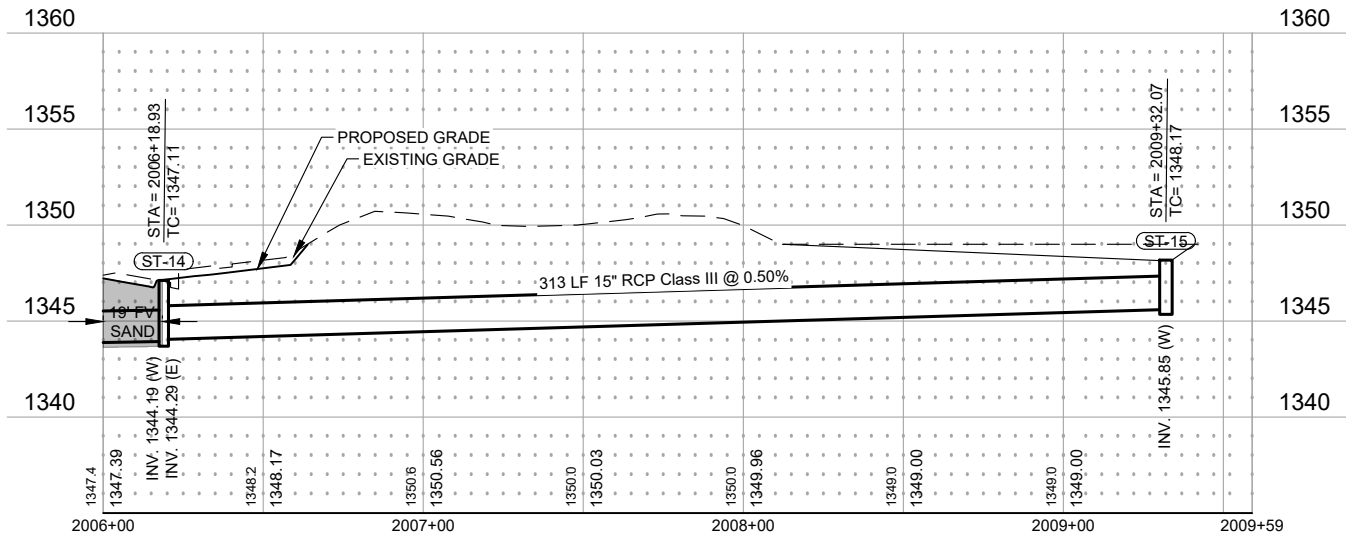
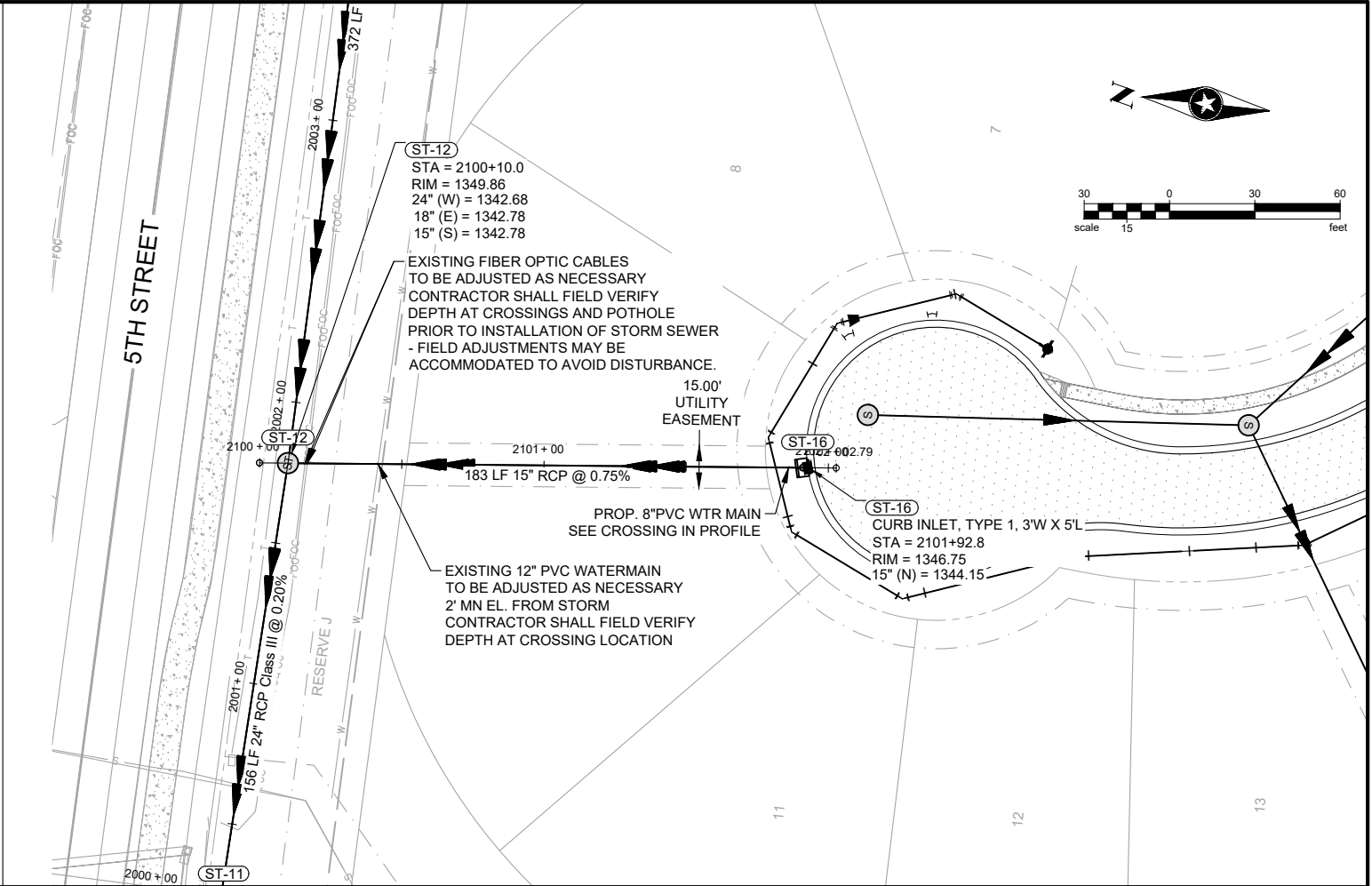
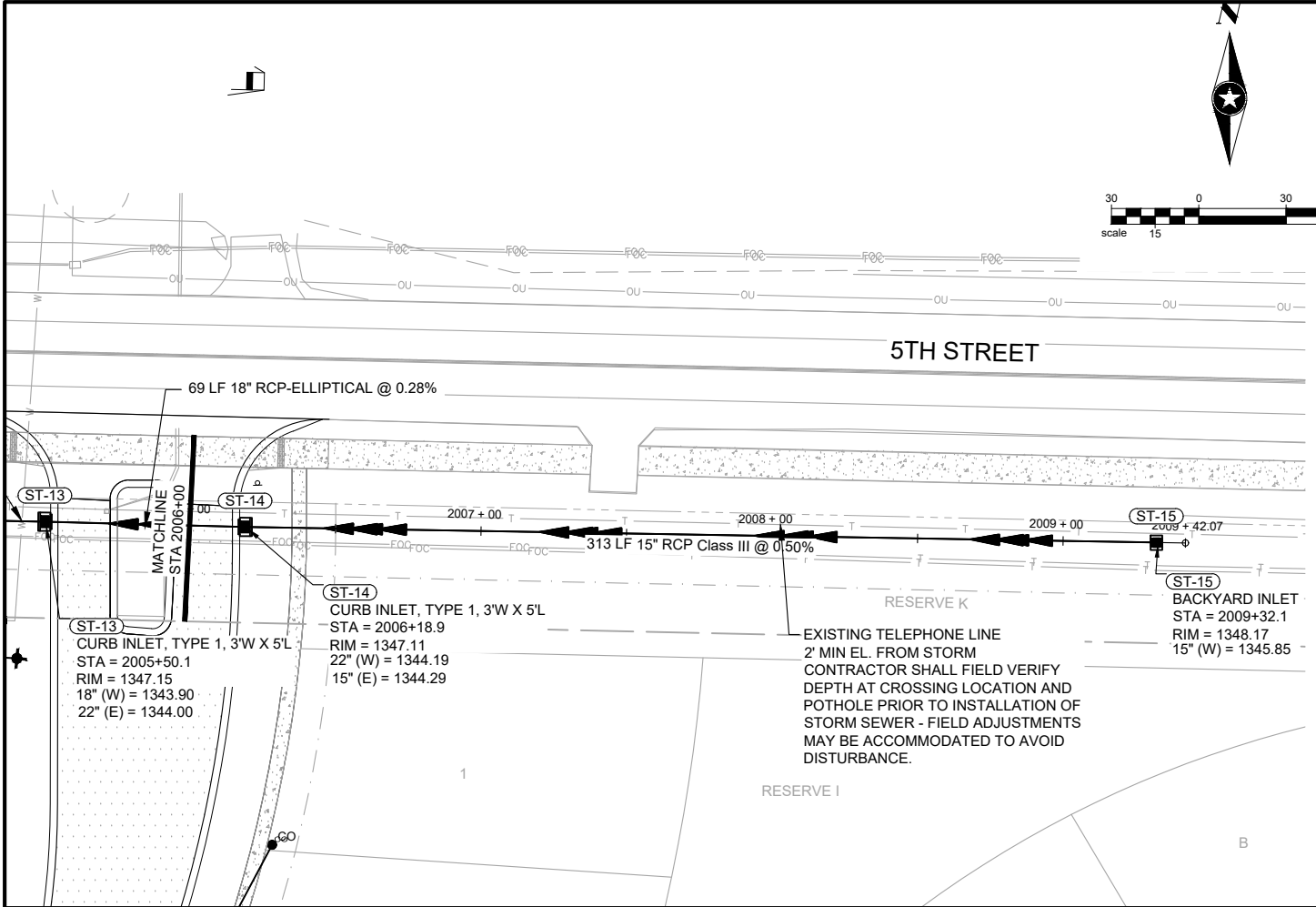
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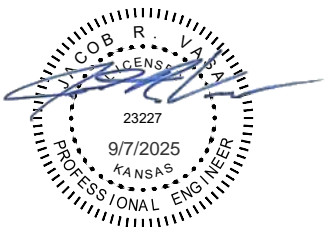
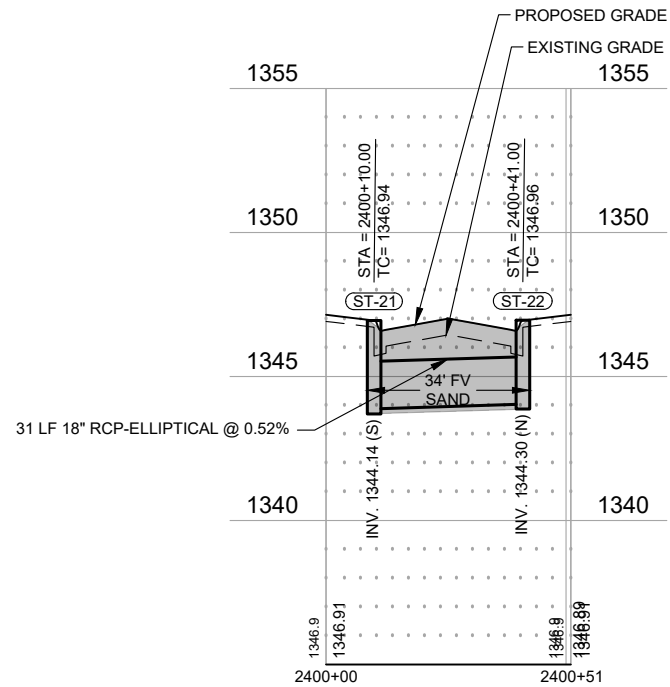
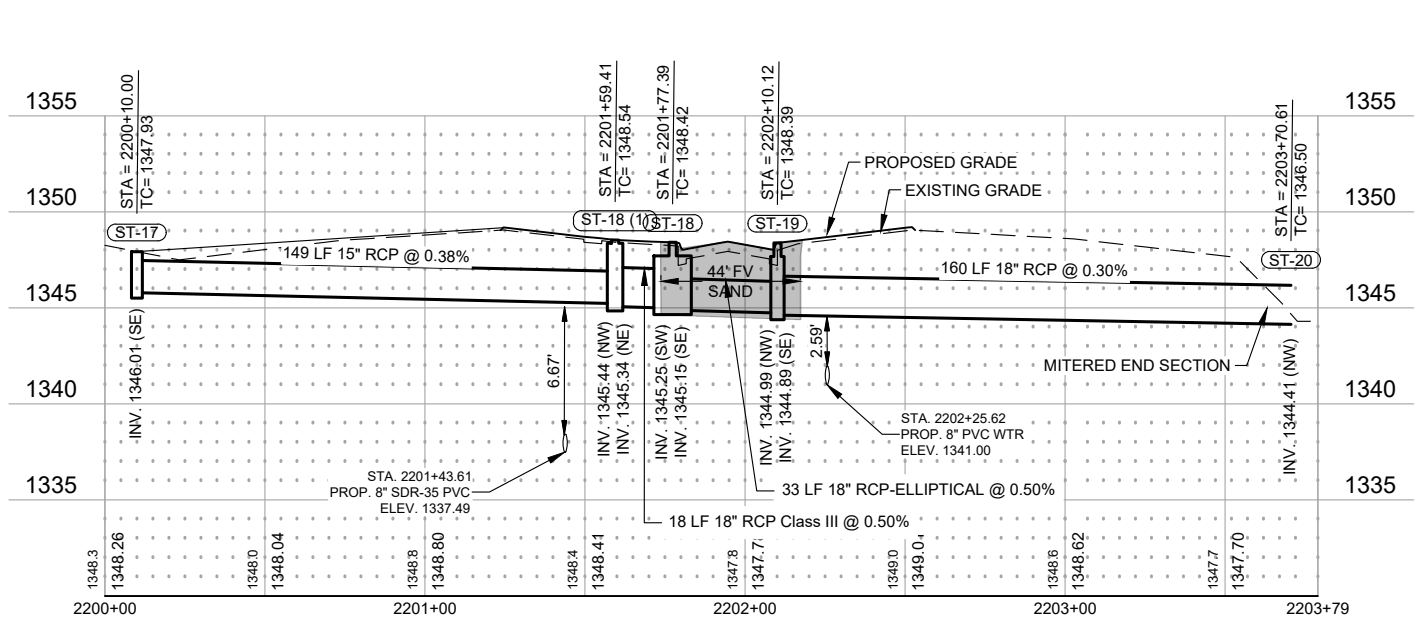
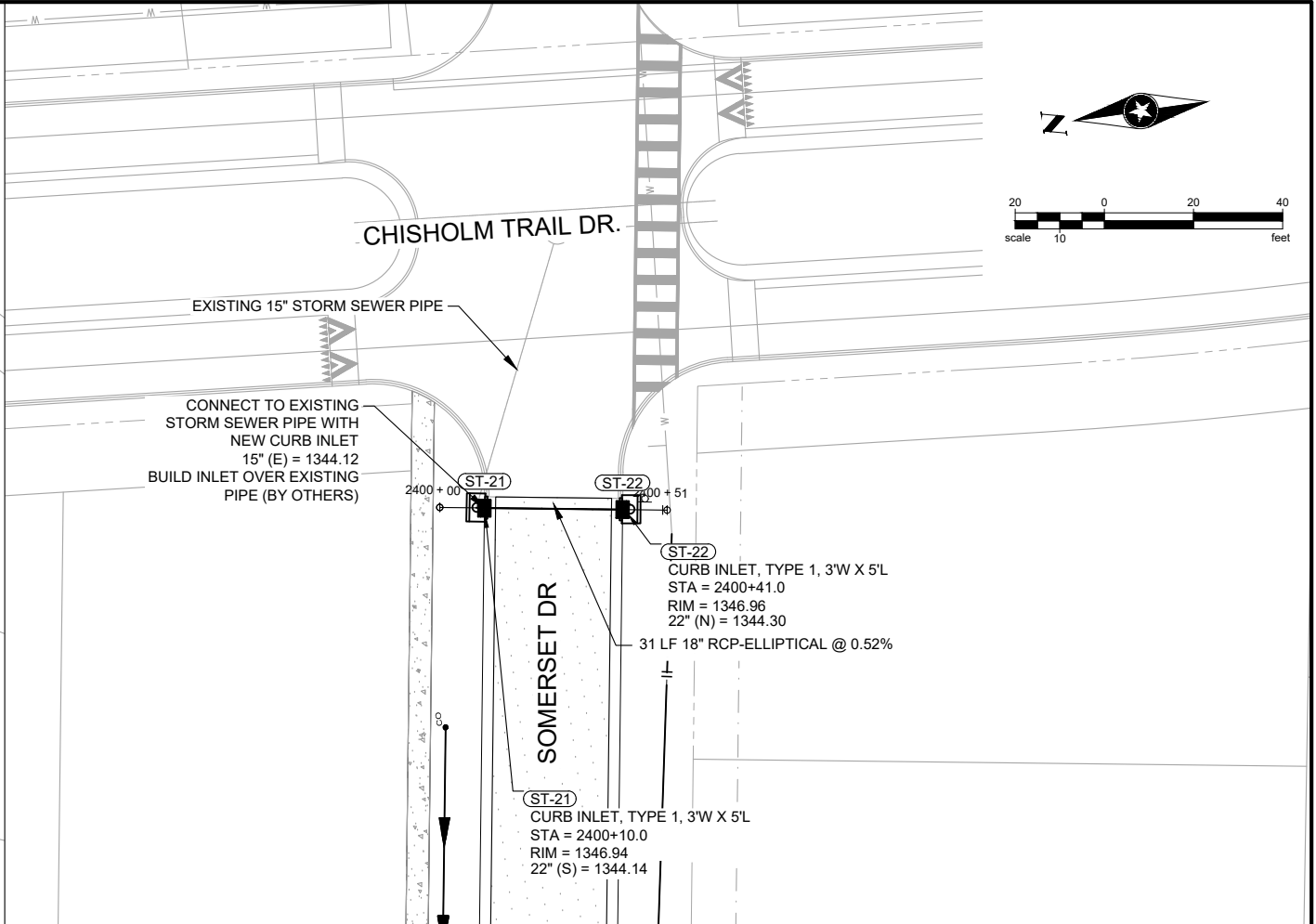
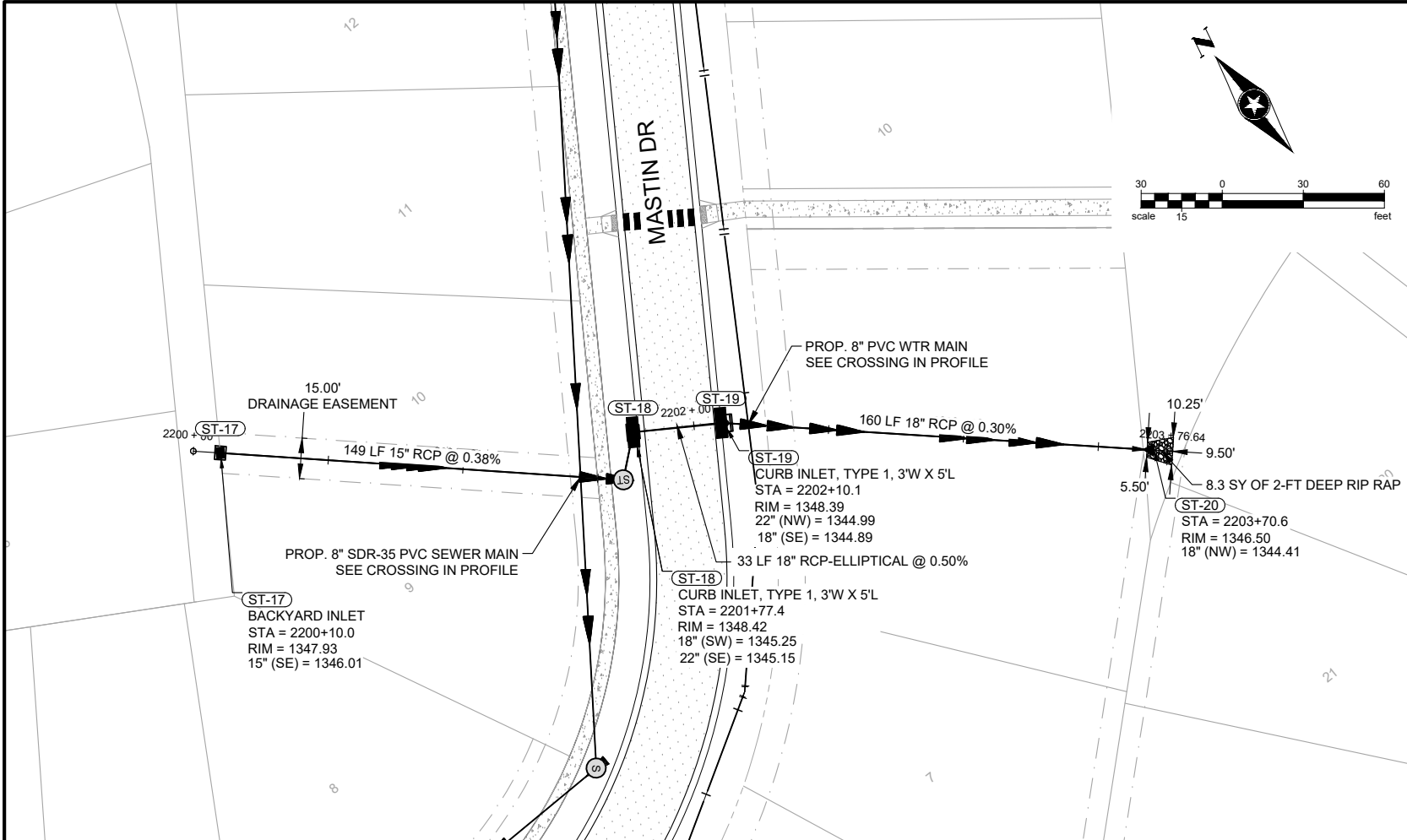
SEH Project		HORCA185490		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date			AMBER RIDGE - PHASE 1		STORM SEWER INDEX MAP		13 of 48
Drawn By		--		.			.			VALLEY CENTER, KANSAS						
Designed By		--		.			.									
Checked By		--		.			.									





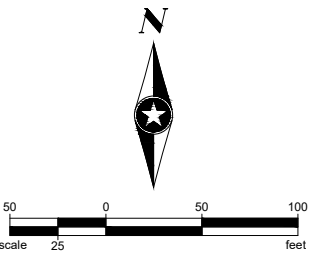


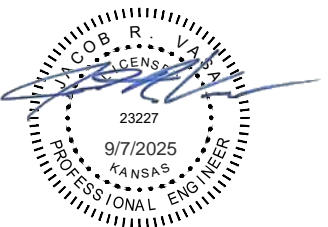
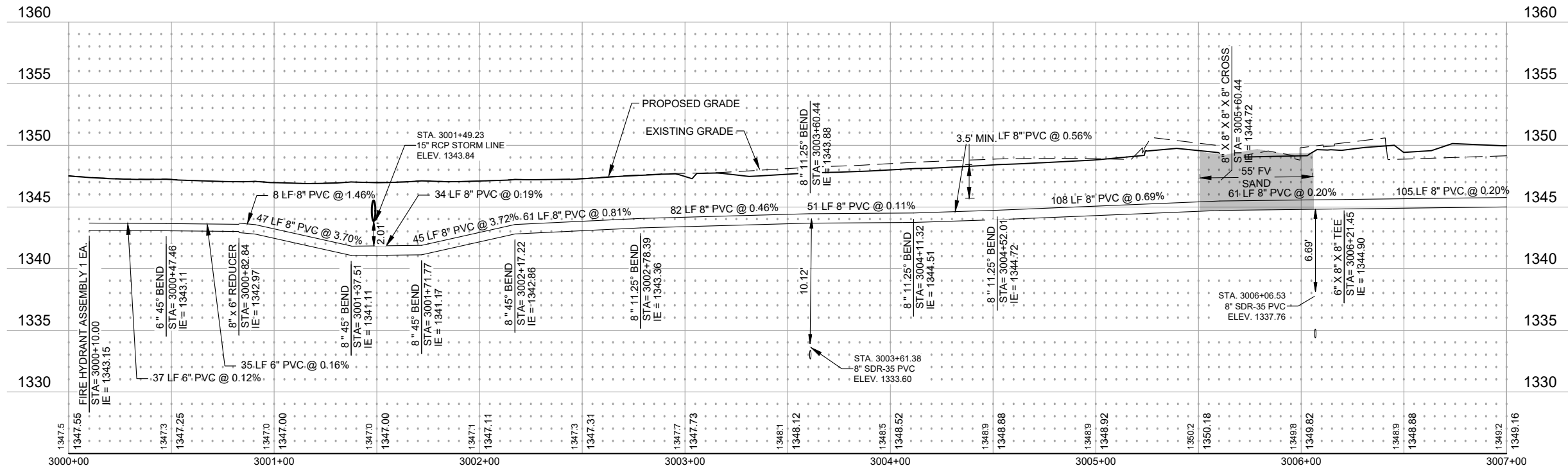
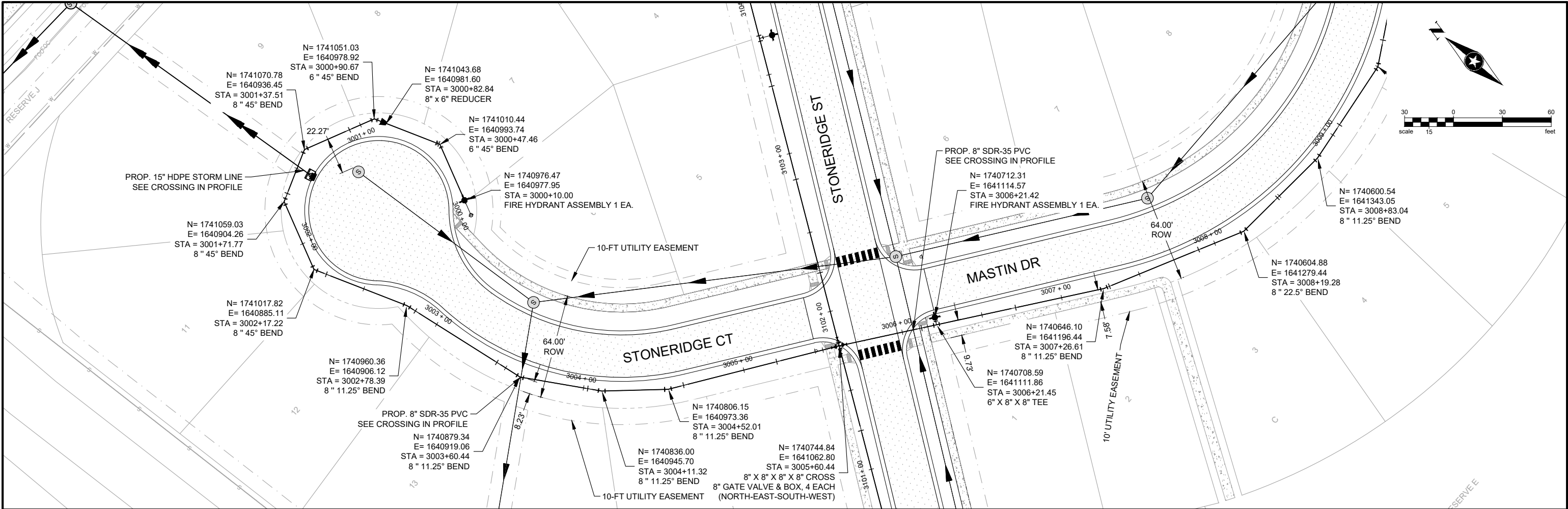
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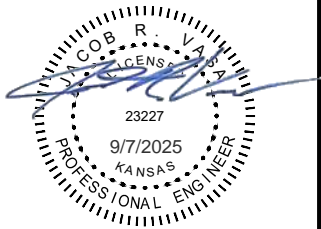
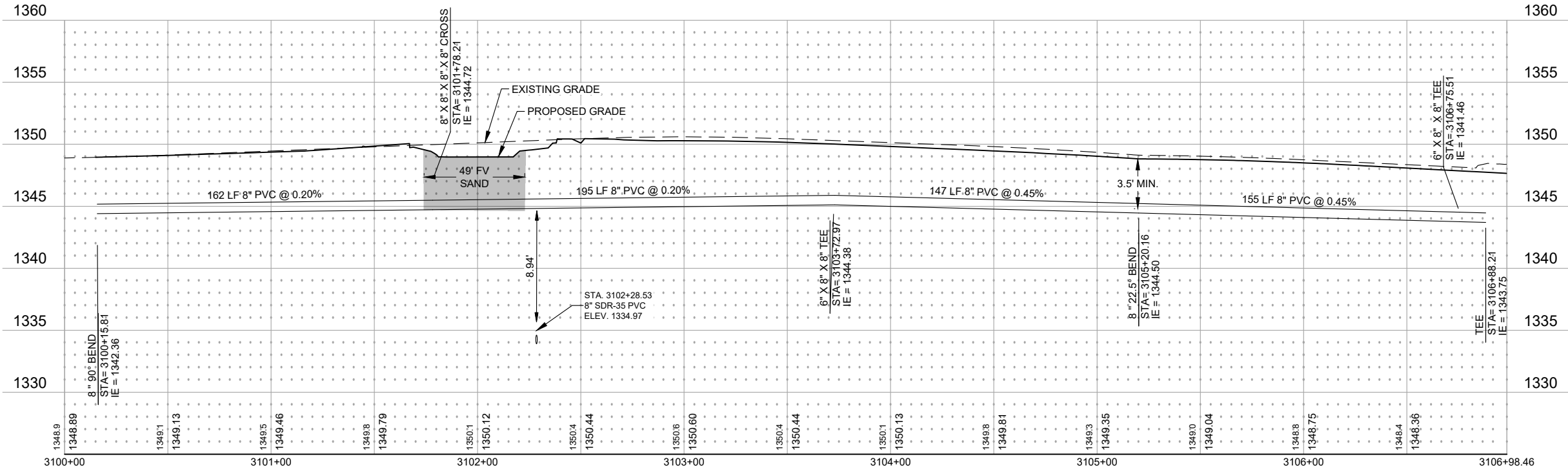
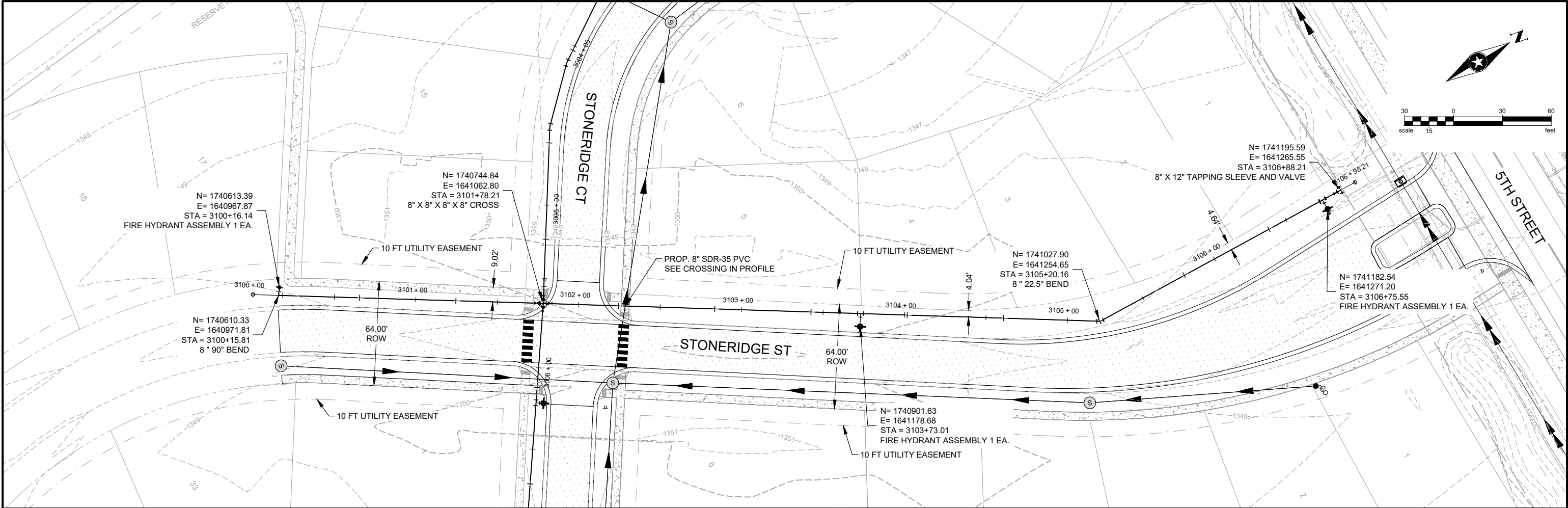


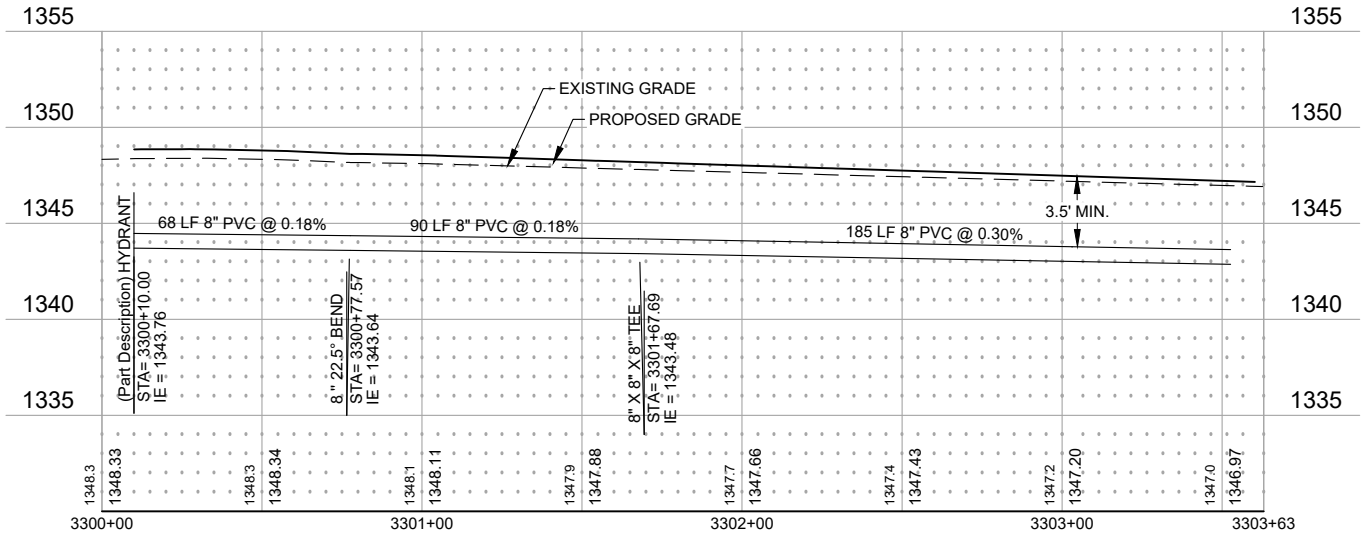
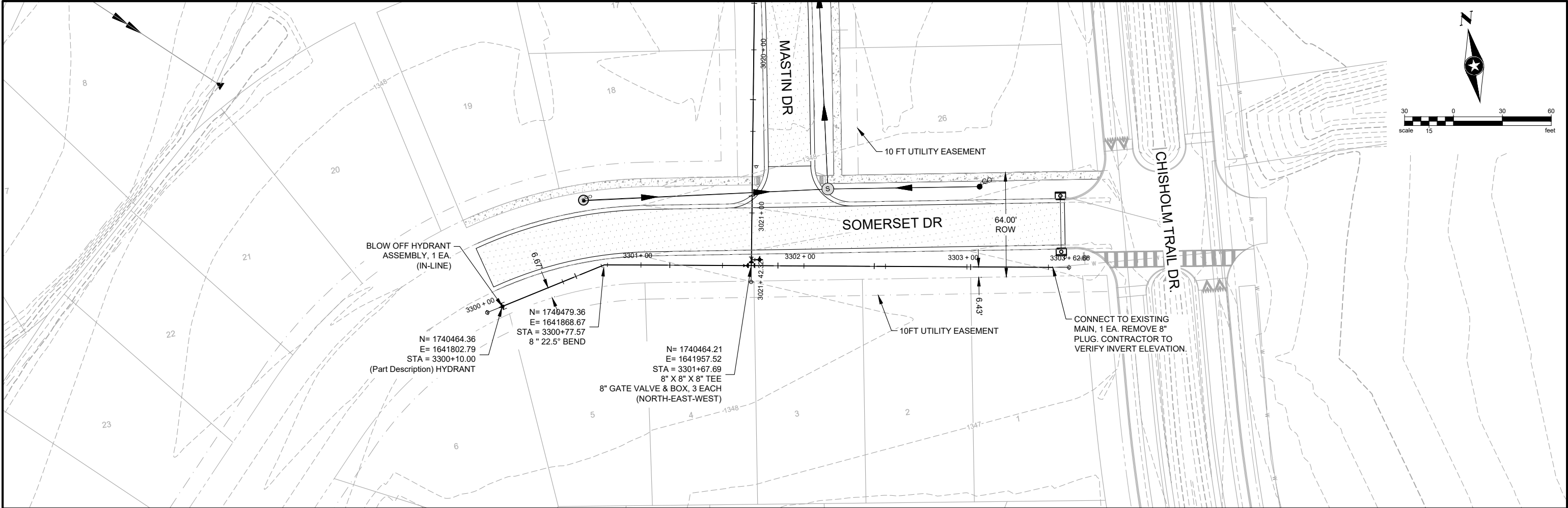




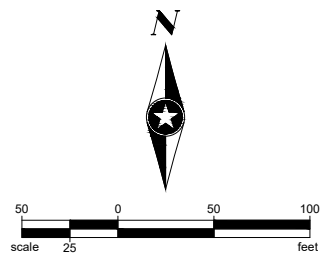












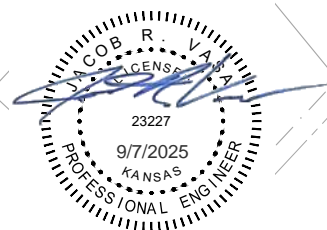
**SHEET 24**

**SHEET 25**

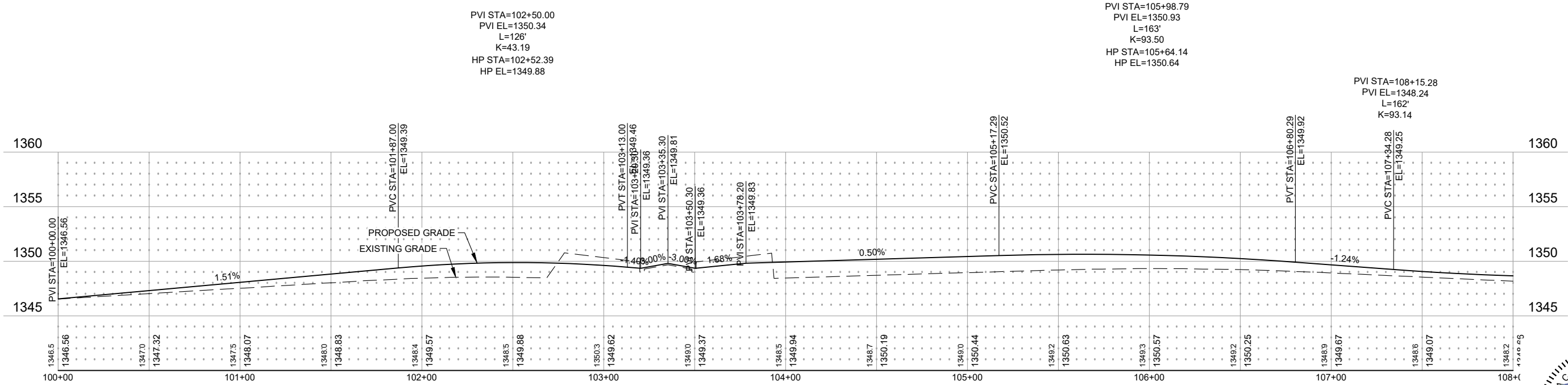
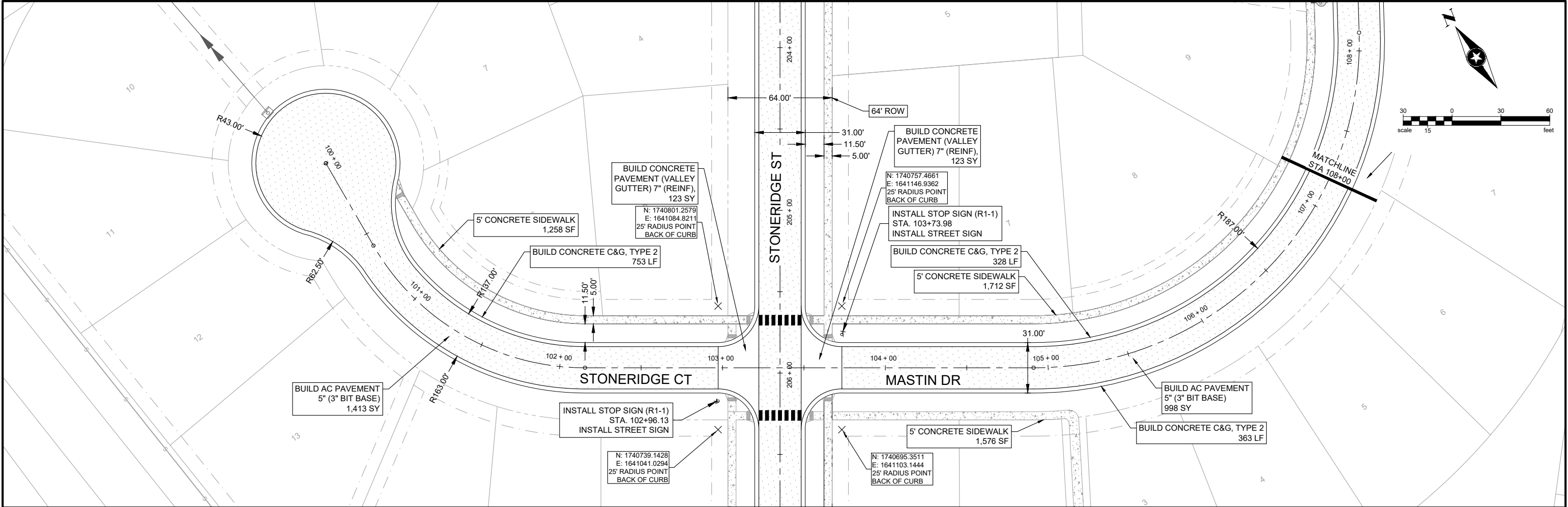
**SHEET 26**

**SHEET 28**

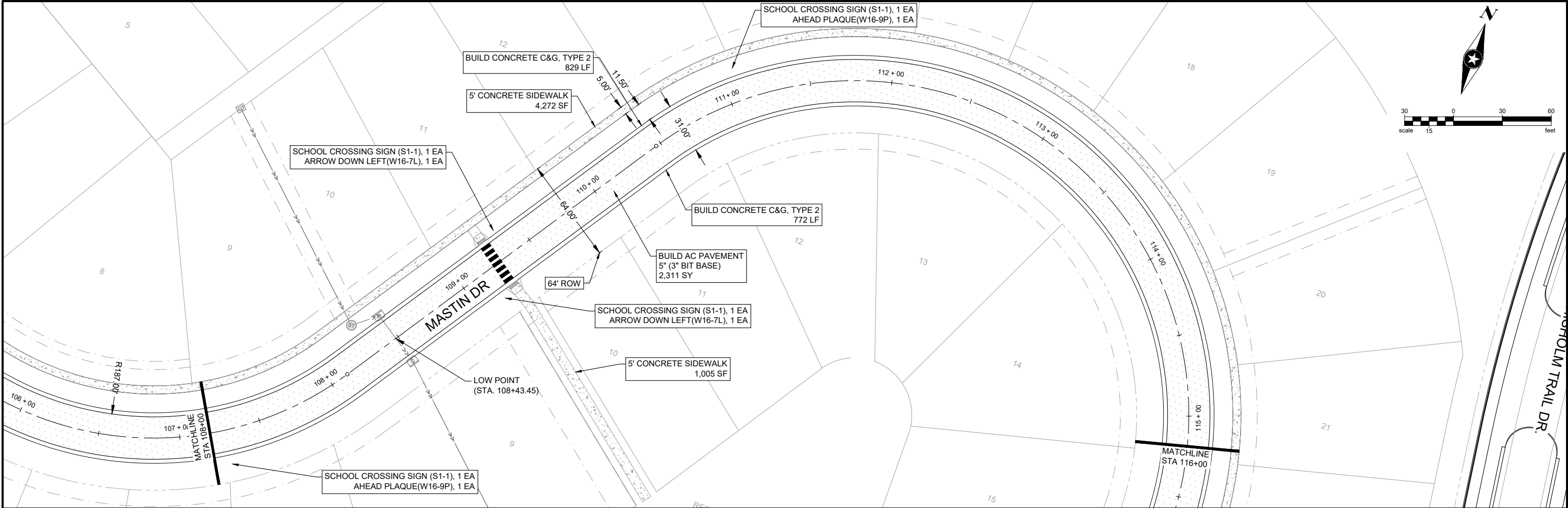
SOMERSET DR



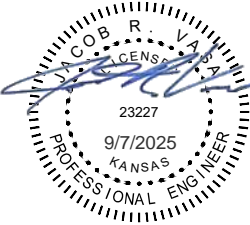
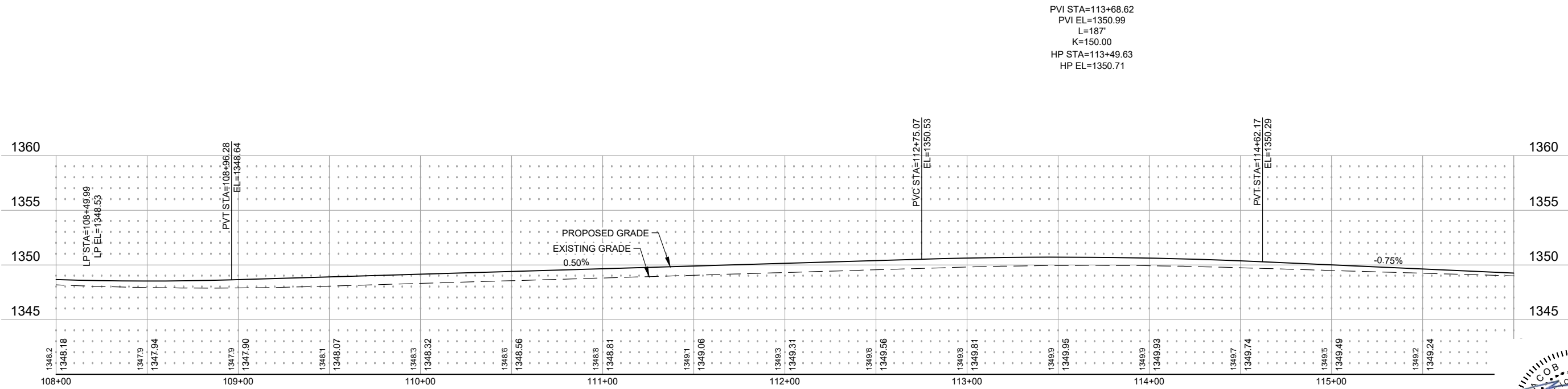
SEH Project	HORCA185490	Rev.#		Revision Issue Description	Date	Rev.#		Revision Issue Description	Date		AMBER RIDGE - PHASE 1	STREET INDEX MAP	23
Drawn By	--	.	.	.	.	.	.	.	.				of 48
Designed By	--	.	.	.	.	.	.	.	.				
Checked By	--	.	.	.	.	.	.	.	.		VALLEY CENTER, KANSAS		



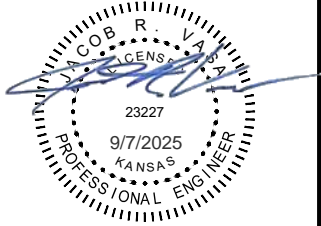
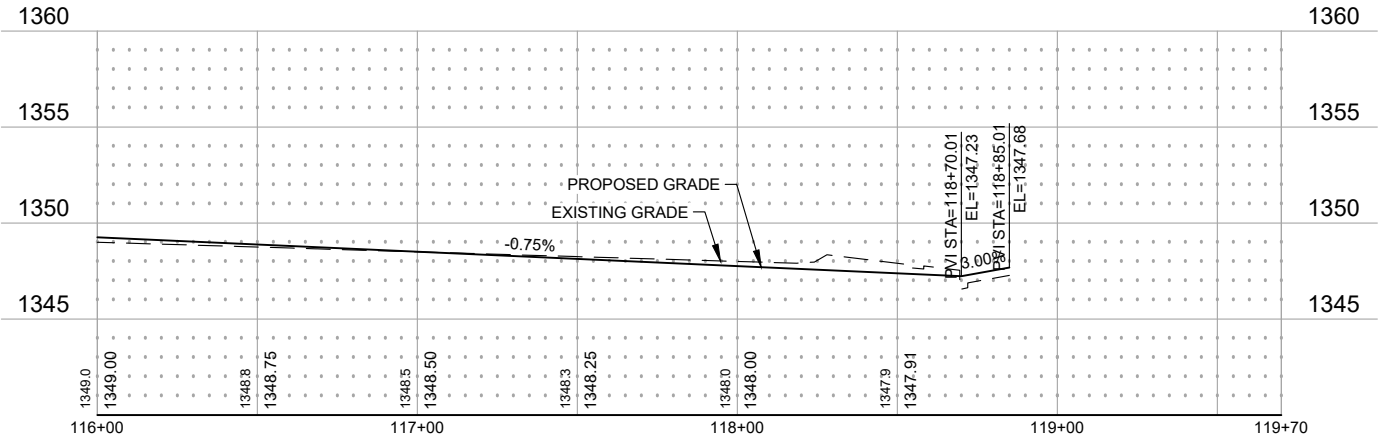
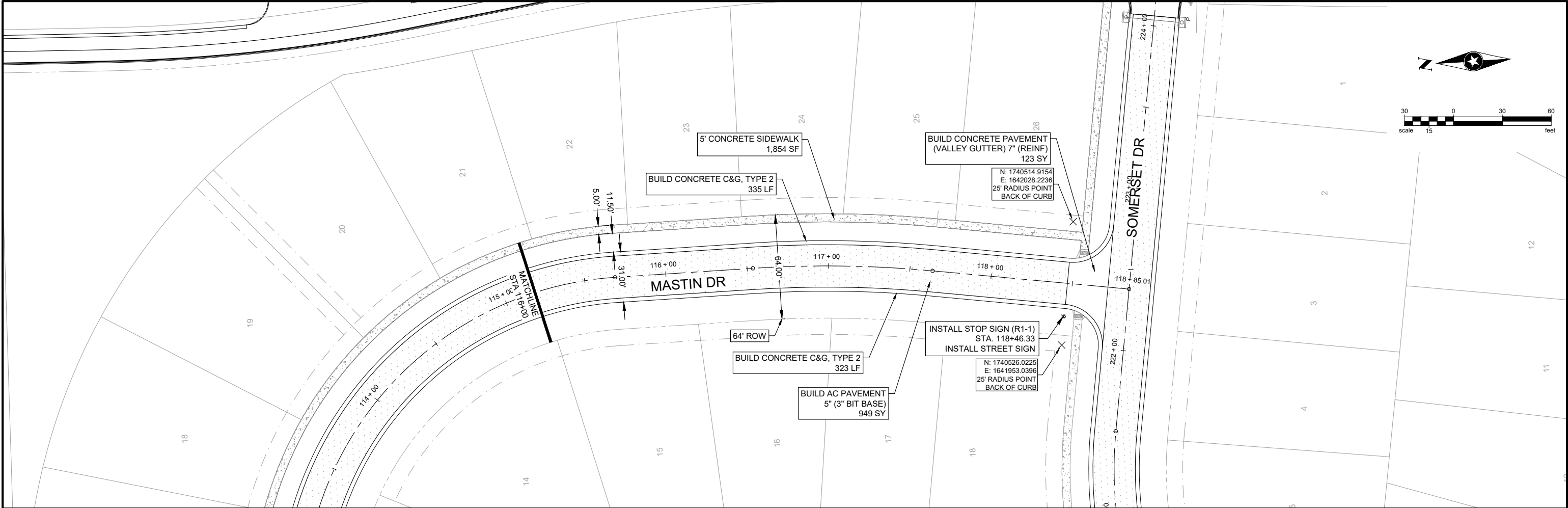
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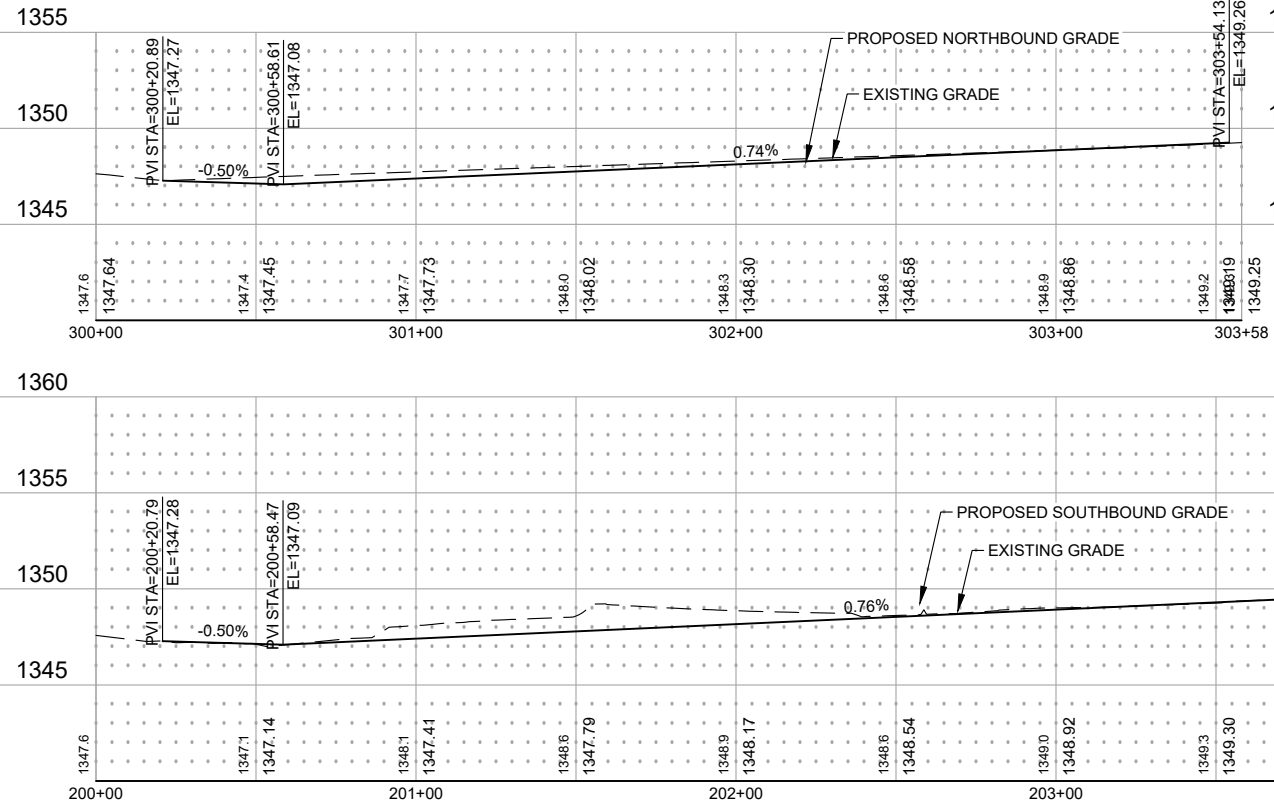
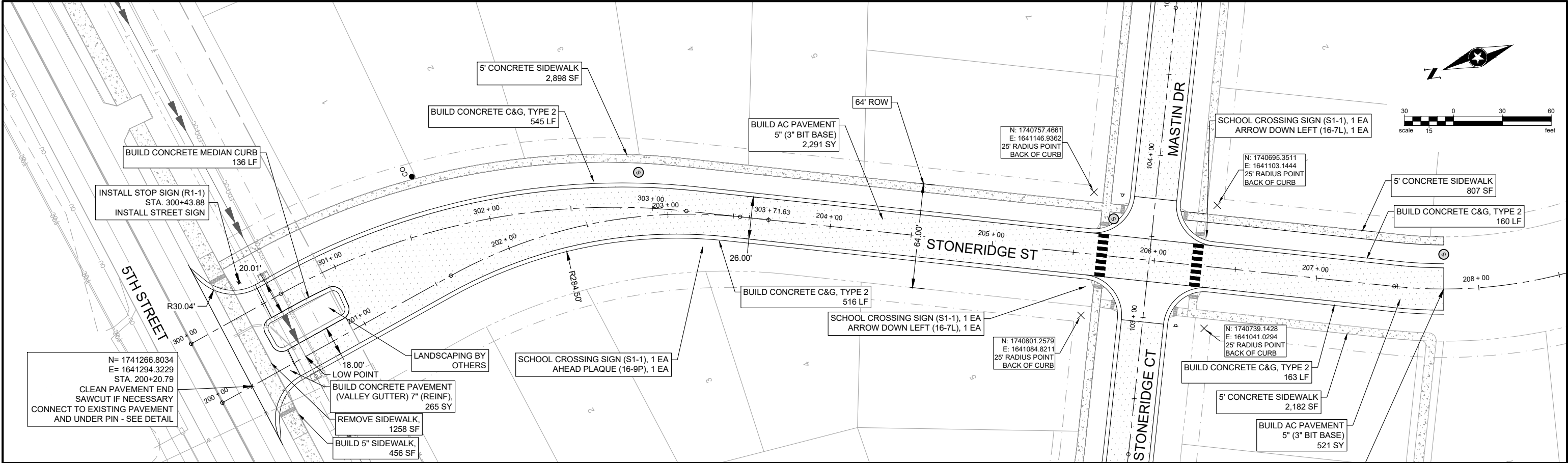


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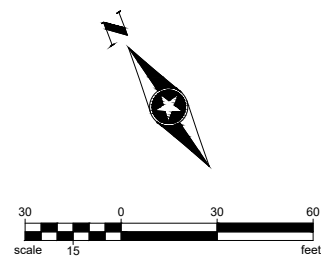
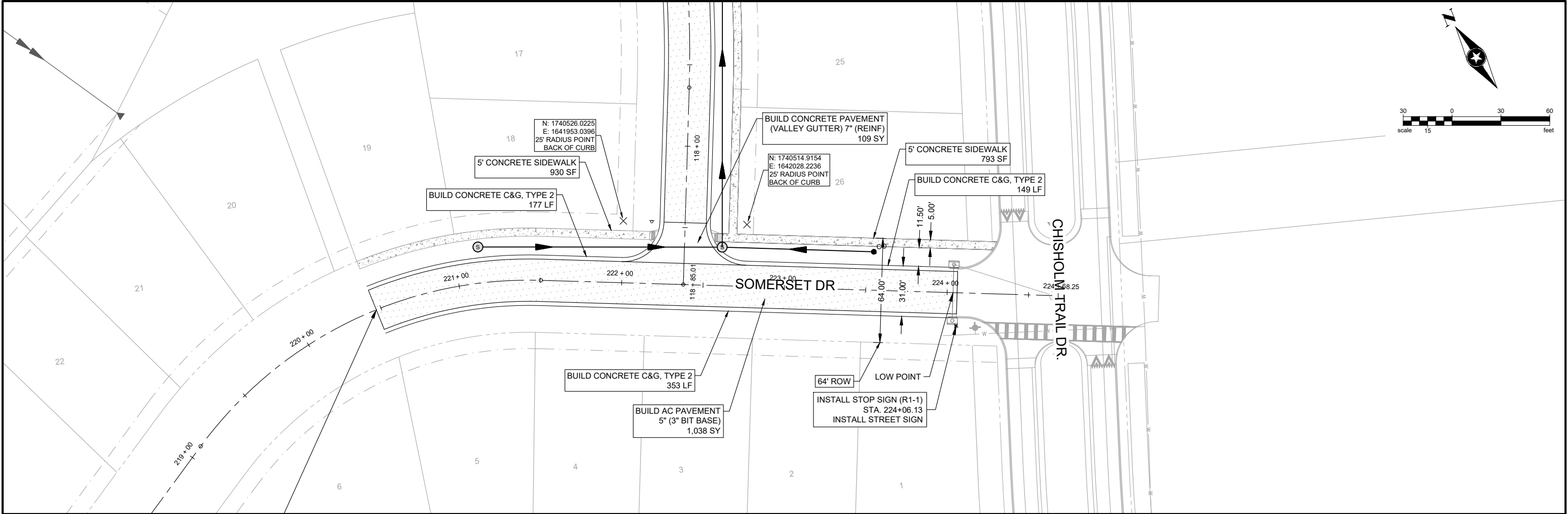




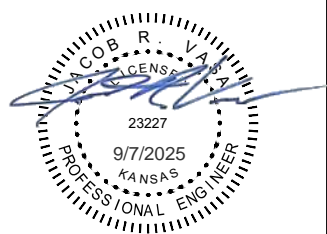
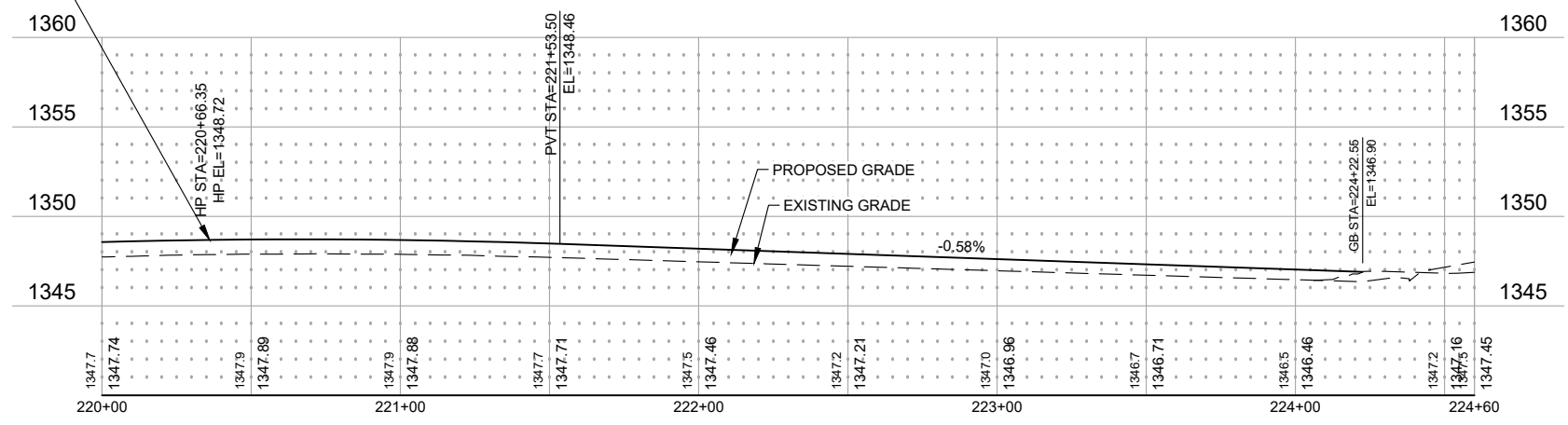
HP STA=205+00.53  
HP EL=1350.15  
PVI STA=204+87.30  
PVI EL=1350.34  
L=128'  
K=101.77

END PAVEMENT  
INSTALL TYPE 1 BARRICADE  
STA. 207+67.62



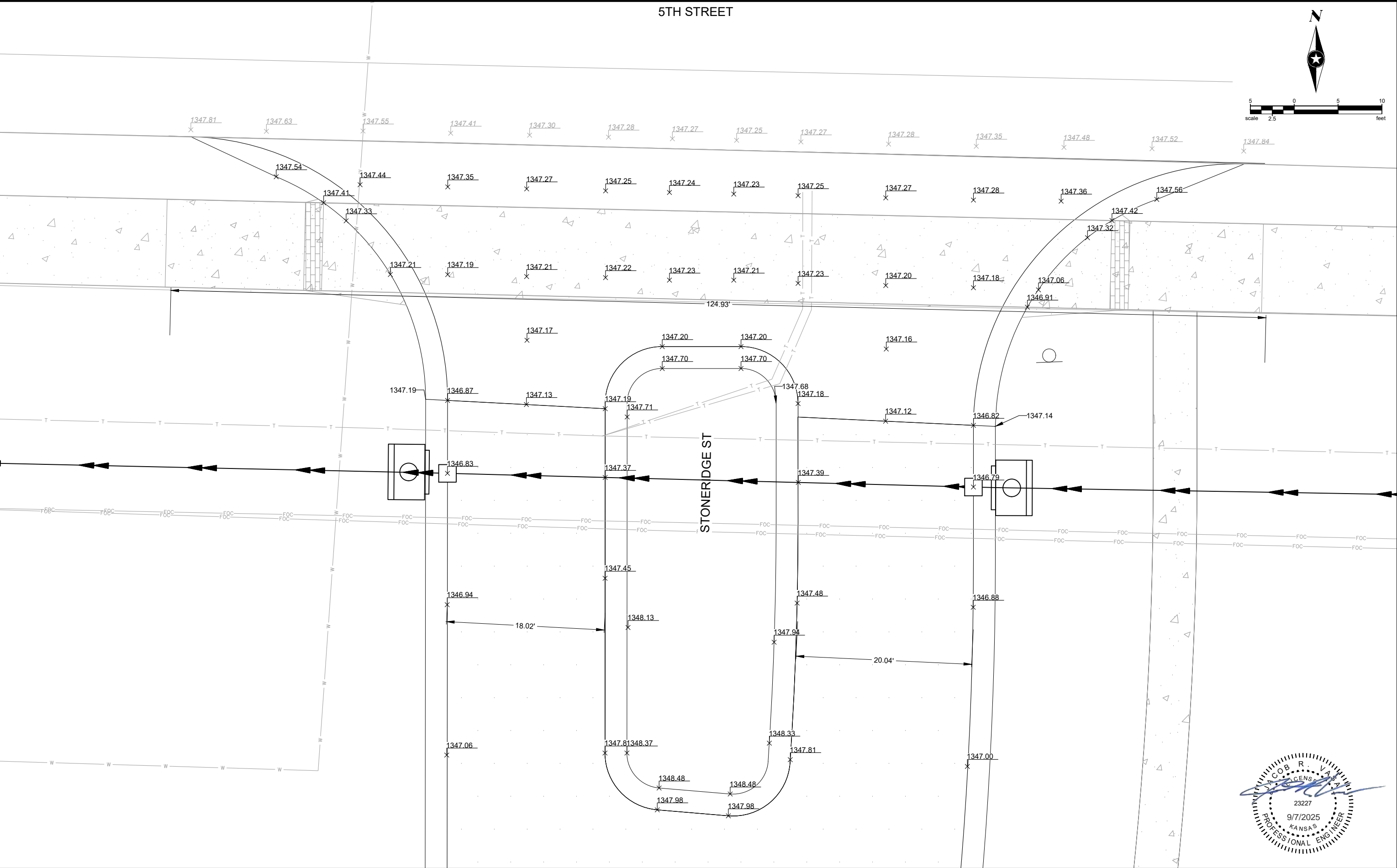


END PAVEMENT  
INSTALL TYPE I BARRICADE  
STA. 220+36.10





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SEH Project	HORCA185490	Rev.#	Revision Issue Description	Date
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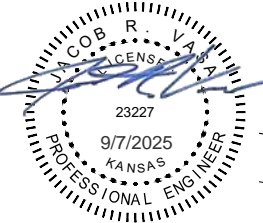
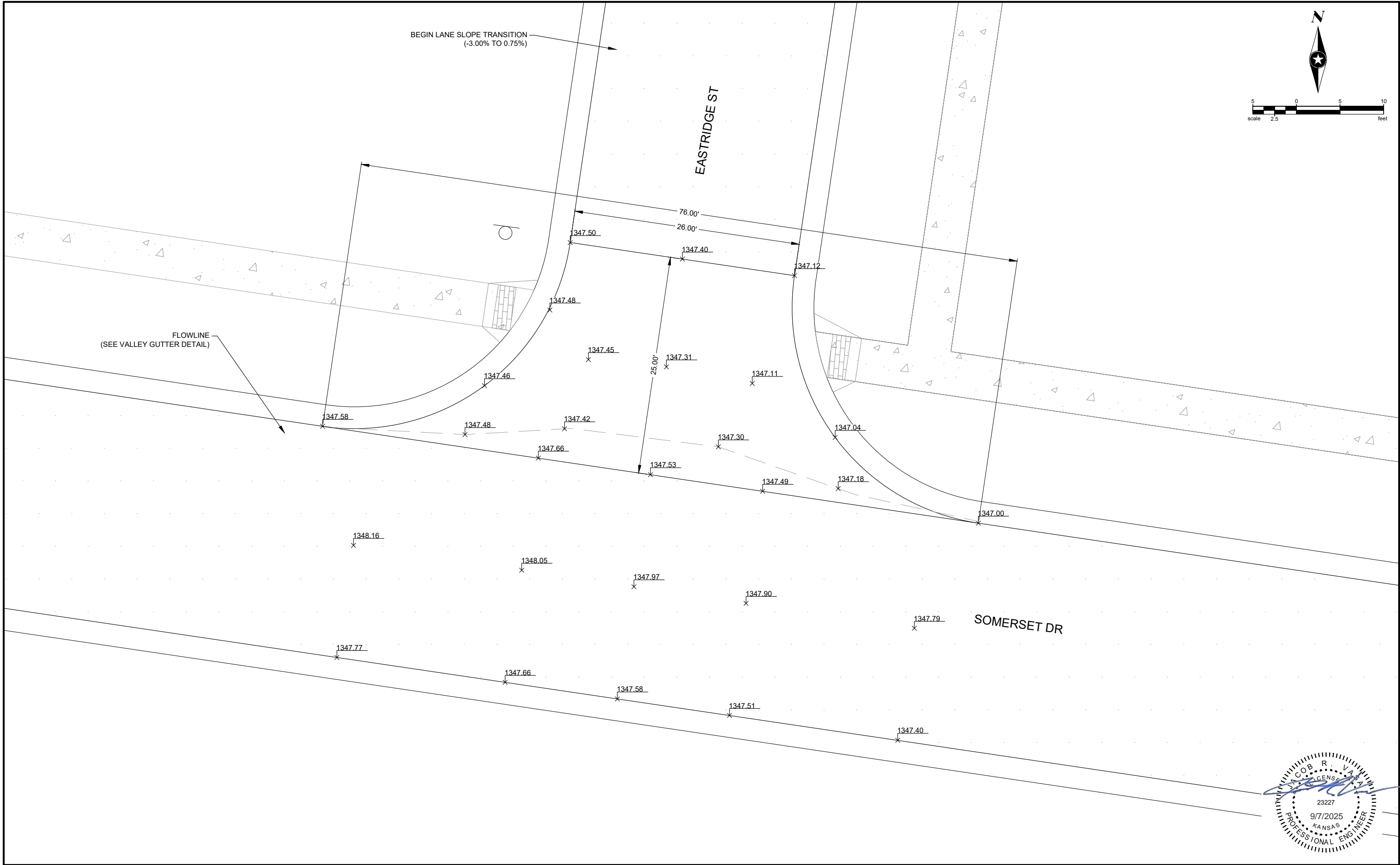
Rev.#	Revision Issue Description	Date
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AMBER RIDGE - PHASE 1  
VALLEY CENTER, KANSAS

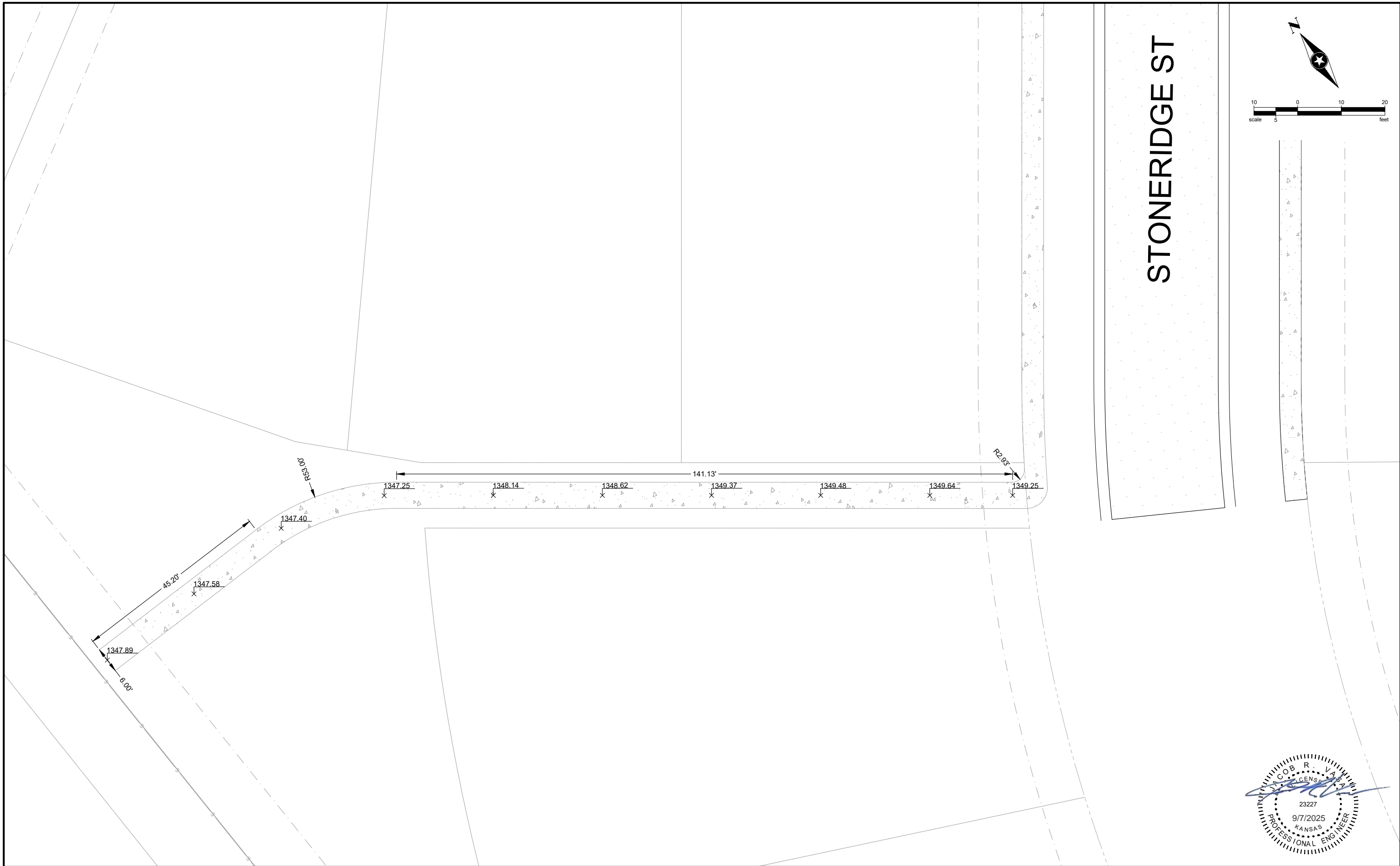
SHEET DESCRIPTION 1  
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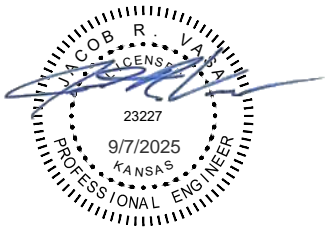
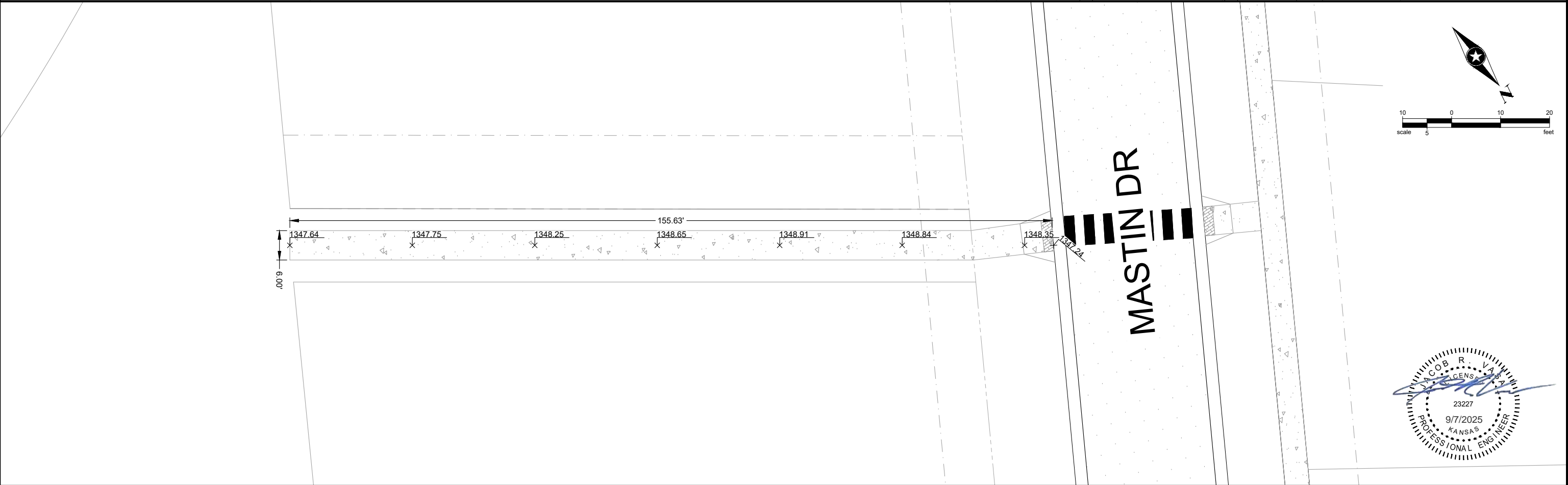
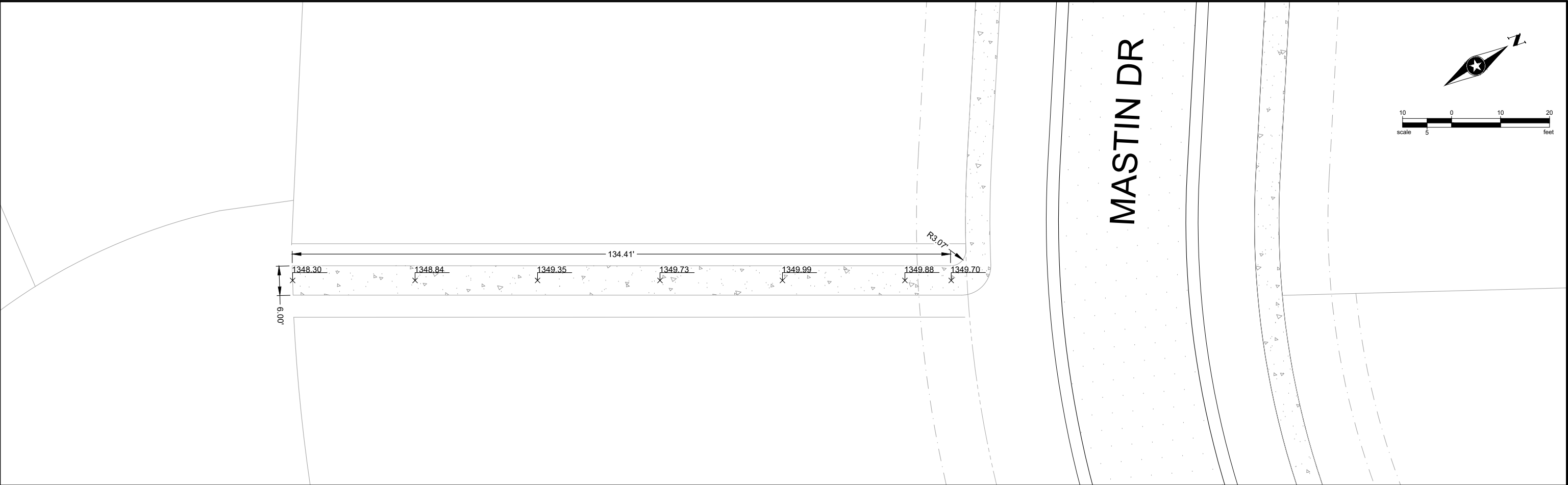






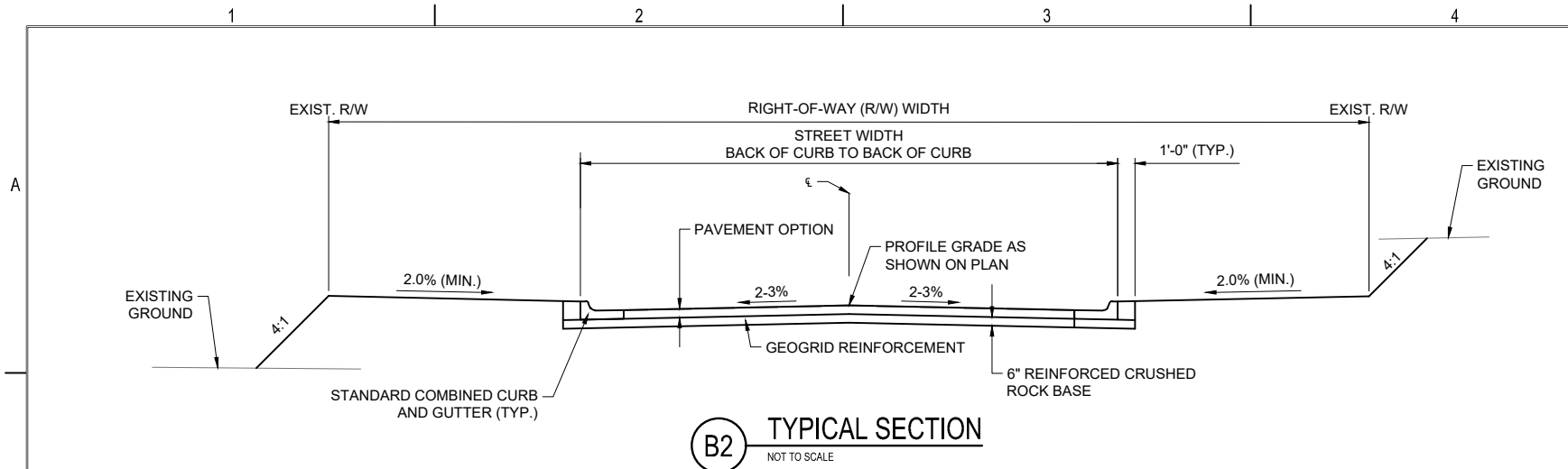


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SEH Project	HORCA185490	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date		AMBER RIDGE - PHASE 1 VALLEY CENTER, KANSAS	SIDEWALK PLAN	33 of 48
Drawn By	--	.	.	.	.	.	.				
Designed By	--	.	.	.	.	.	.				
Checked By	--	.	.	.	.	.	.				

SAVED 3/8/2021 9:04:24 AM BY DUSTIN BILLINGSLEY  
PLOTTED 3/8/2021 9:18:07 AM BY DUSTIN BILLINGSLEY  
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SECTIONS.DWG



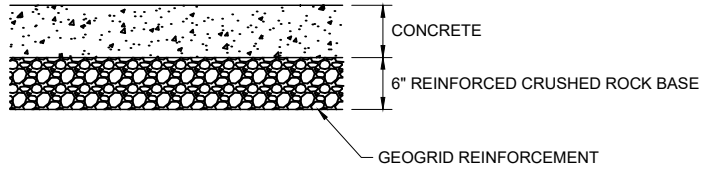
STREET WIDTH TABLE *	
STREET CLASSIFICATION	STREET WIDTH BK OF CB TO BK OF CB
ARTERIAL	**
COLLECTOR	41'
RESIDENTIAL	31'-35'

\* PER CITY SUBDIVISION REGULATIONS, SECTION 16.06.08.  
\*\* SEE CITY SUBDIVISION REGULATIONS, SECTION 16.06.08.G AND H.

PAVEMENT THICKNESS TABLE			
PAVEMENT TYPE	RESIDENTIAL	SECONDARY	ARTERIAL
ASPHALTIC CONCRETE	5" MIN.	7" MIN.	8" MIN.
CONCRETE	6" MIN.	6" MIN.	7" MIN.

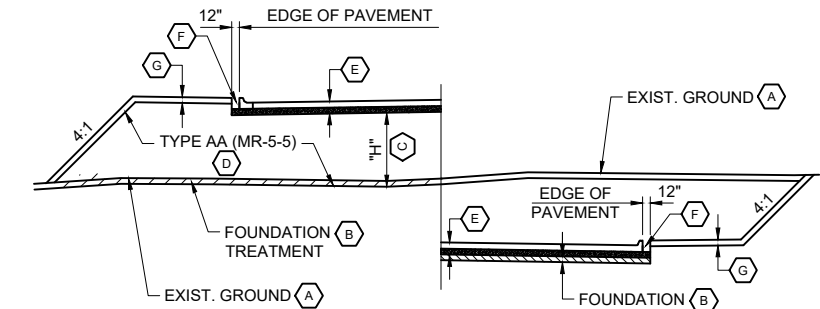
D= THICKNESS OF ADJACENT PAVEMENT

#### A5 PAVEMENT OPTION, ASPHALTIC CONCRETE



#### B5 PAVEMENT OPTION, CONCRETE

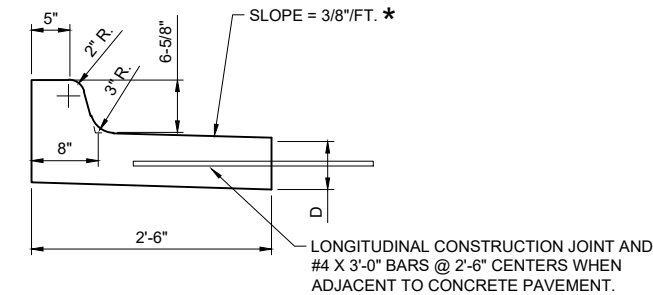
NOTES:  
THICKNESS WILL VARY DEPENDING ON THE INTENDED USE. SEE TABLE BELOW FOR MINIMUM PAVEMENT THICKNESS.



#### E1 FOUNDATION TREATMENT & COMPACTION DIAGRAM

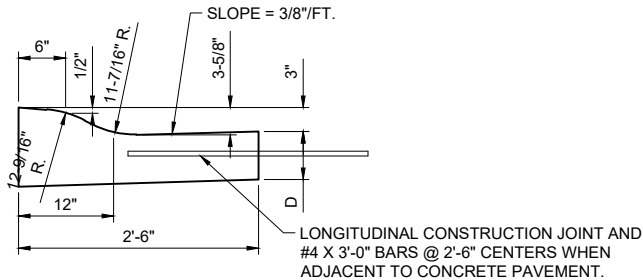
- A STRIP TOPSOIL, SEE RD599A.
- B SCARIFY AND COMPACT (6 INCHES) TO 95% ASTM D698.
- C "H" EQUALS FULL EMBANKMENT HEIGHT.
- D COMPACT TO 95% ASTM D698.
- E PAVEMENT SECTION, SEE TYPICAL SECTIONS THIS SHEET.
- F BACKFILL WITH SATISFACTORY SOIL. COMPACT TO 95% ASTM D698.
- G PLACE TOPSOIL, SEE RD599A (SALVAGE TOPSOIL).

#### D3 MEDIAN COMBINED CURB & GUTTER (6 5/8")

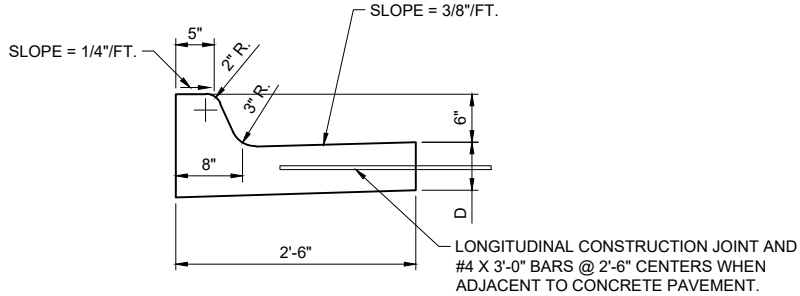


\* SLOPE SAME AS ADJACENT PAVEMENT. CONTRACTOR SHALL VERIFY DIRECTION OF SLOPE WITH FINAL GRADING.

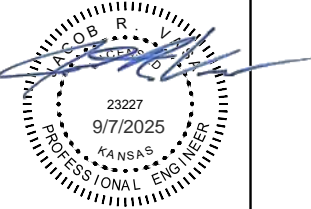
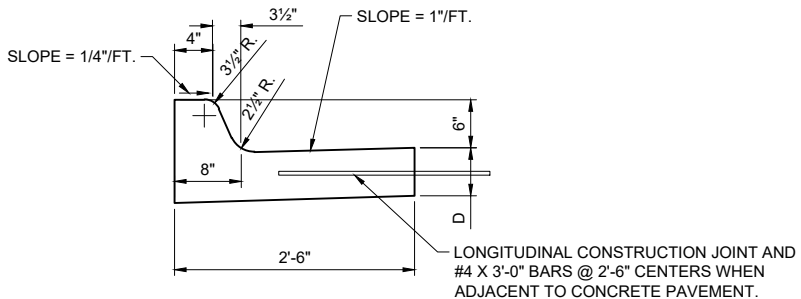
#### E4 ROLL-TYPE CURB & GUTTER (3-5/8")



#### D5 STANDARD COMBINED CURB & GUTTER (6-5/8")



#### E5 ARTERIAL COMBINED CURB AND GUTTER (6")



## VALLEY CENTER STANDARD DETAILS VALLEY CENTER, KS

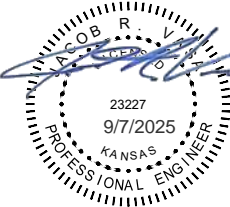
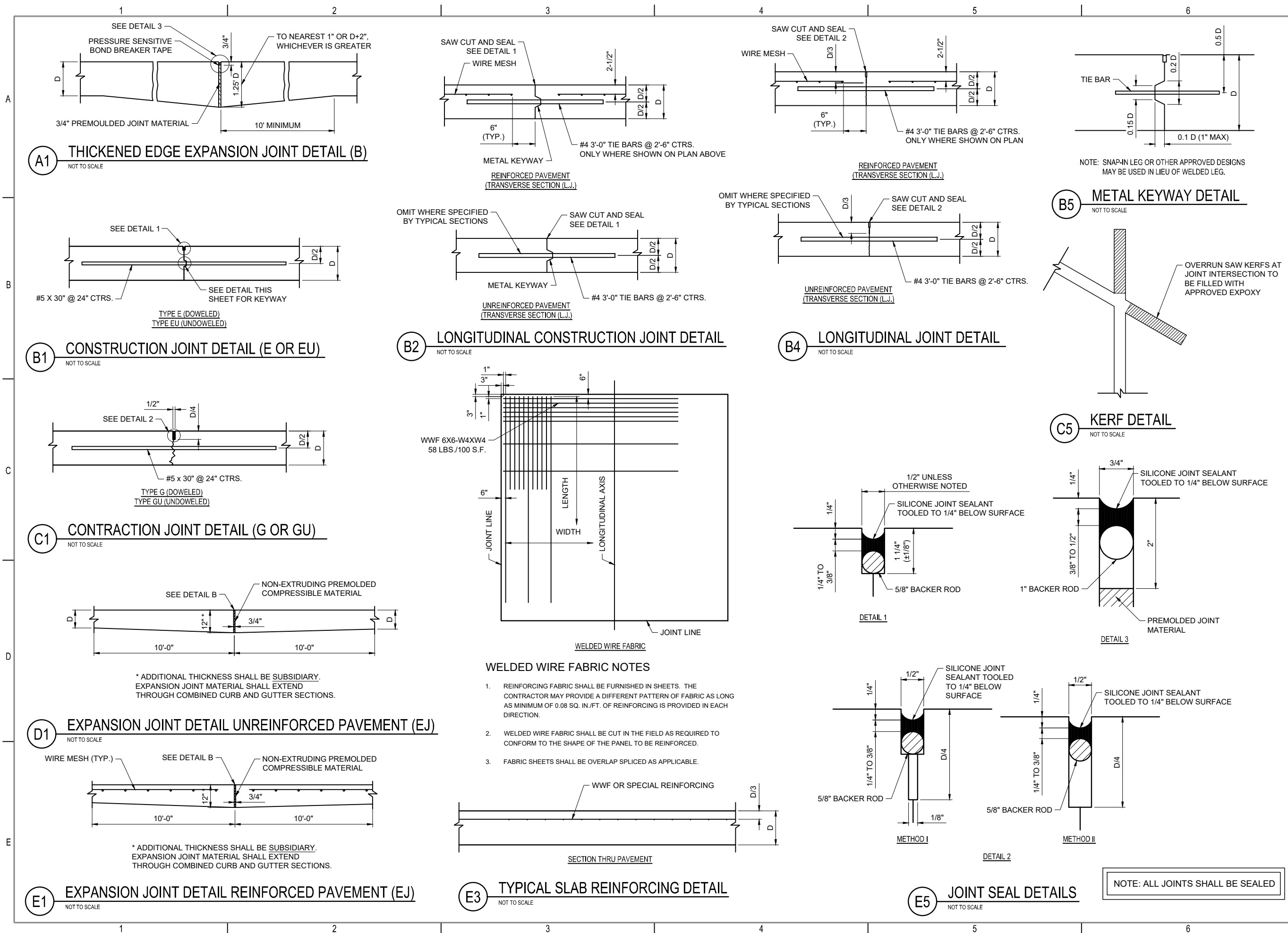
Issue:		
1	ISSUED FOR CONSTRUCTION	03/10/21
JOB NO.	217013-001	
DATE	10 MARCH 2021	
PM	JAG	
DESIGNED BY	JAG	
DRAWN BY	DSB	
CHECKED BY	MEB	

TYPICAL PAVING SECTIONS

C-501



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PLOTTED 3/8/2021 9:18:11 AM BY DUSTIN BILLINGSLEY  
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AND JOINTING DETAILS.DWG

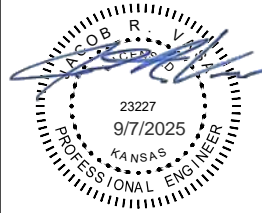
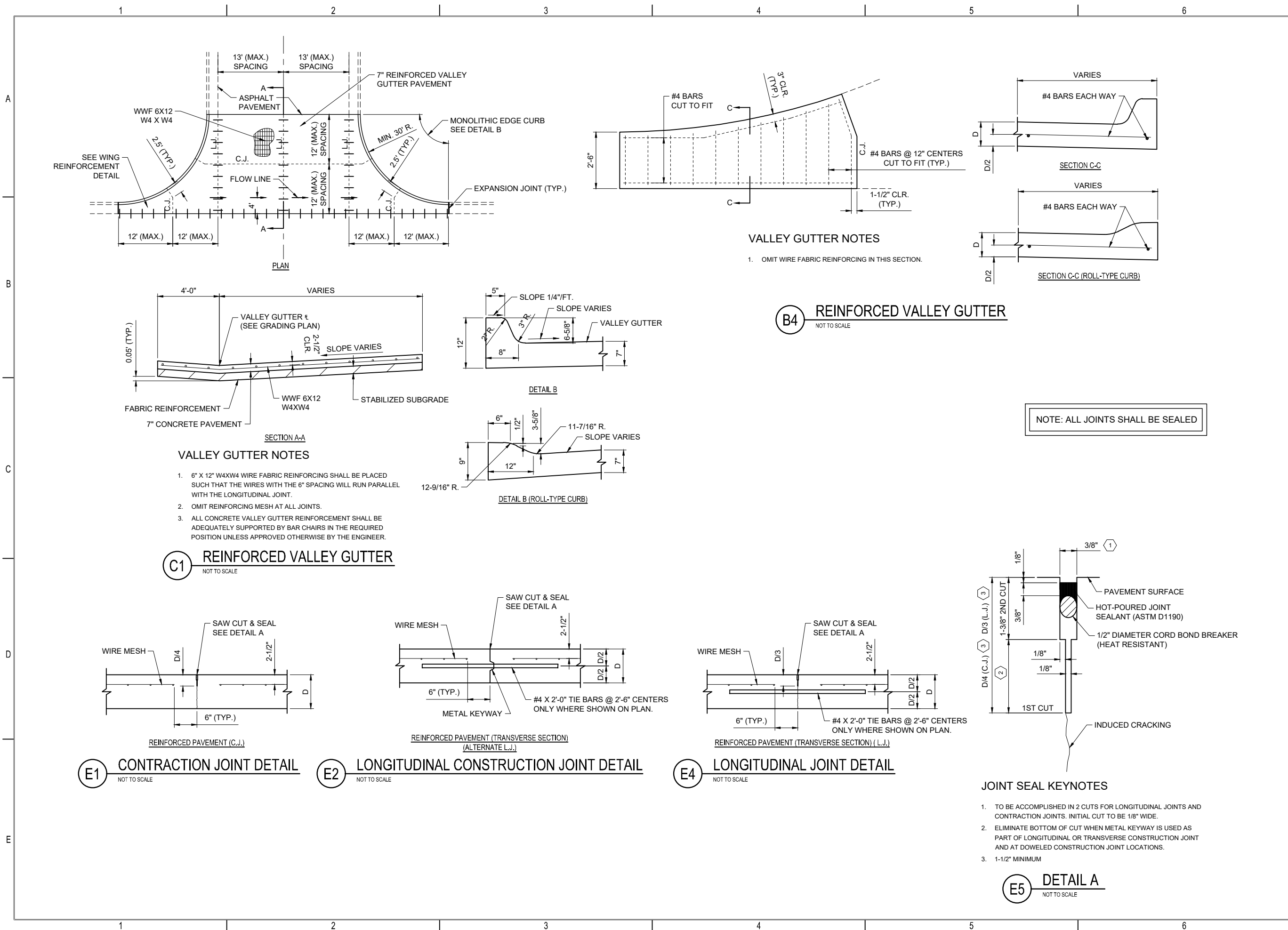


VALLEY CENTER  
STANDARD DETAILS  
VALLEY CENTER, KS

Issue:		
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CHECKED BY	MEB	
CONCRETE PAVEMENT AND JOINTING DETAILS		

C-502

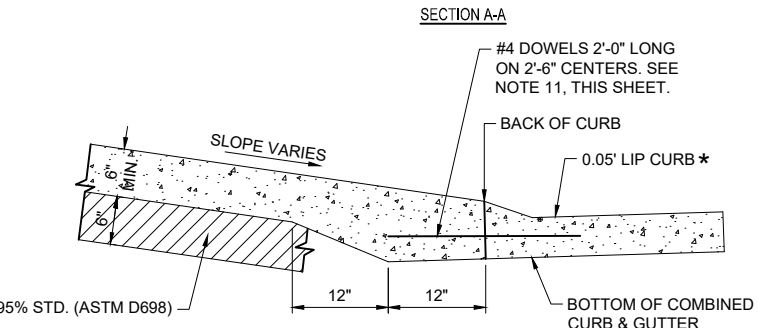
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DETAILS.DWG



VALLEY CENTER  
STANDARD DETAILS  
VALLEY CENTER, KS

Issue:		
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PM	JAG	
DESIGNED BY	JAG	
DRAWN BY	DSB	
CHECKED BY	MEB	
CONCRETE VALLEY GUTTER DETAILS		

C-503



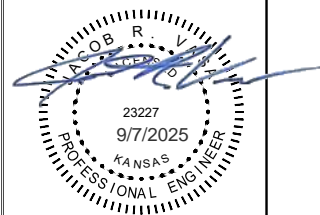
\* PAID FOR AS COMBINED CURB & GUTTER

(D3) NOT TO SCALE



(E3) NOT TO SCALE

1. CONCRETE DRIVE ENTRANCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF VALLEY CENTER STANDARD SPECIFICATIONS, SECTION 32 13 13 "CONCRETE PAVING."
2. THE CONTRACTOR SHALL PROVIDE A FULL DEPTH SAW CUT AT THE LIMITS OF CONSTRUCTION. SAW CUTS AT THE FLOWLINE OF EXISTING CURB AND GUTTER WILL NOT BE ALLOWED.
3. ONE LONGITUDINAL JOINT SHALL BE CONSTRUCTED ALONG THE CENTERLINE OF DRIVES HAVING A "W" DIMENSION OF 20' OR LESS. TWO LONGITUDINAL JOINTS SHALL BE CONSTRUCTED WITH EQUAL SPACINGS OF 10' OR LESS FOR DRIVES WITH A "W" DIMENSION GREATER THAN 20'.
4. JOINT SPACING SHALL BE ADJUSTED TO ALIGN WITH OUTER EDGE OF SIDEWALK WHERE SIDEWALK ABUTS DRIVE CONSTRUCTION.
5. ADDITIONAL THICKNESS OF DRIVE PAVEMENT AS INDICATED IN SECTION 8-B SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR DRIVEWAY PAVEMENT.
6. EXPANSION JOINTS ONE-HALF-INCH WIDE SHALL BE INSTALLED WHEN CONCRETE DRIVE ABUTS AN EXISTING CONCRETE DRIVE.
7. FOR BIDDING PURPOSES, ALL RESIDENTIAL DRIVEWAYS SHALL BE 6" IN THICKNESS AND SHALL BE REINFORCED. ALL COMMERCIAL/INDUSTRIAL DRIVEWAYS SHALL BE 8" IN THICKNESS AND SHALL BE REINFORCED. REINFORCEMENT SHALL BE 6" x 6" W2-W2.9 WELDED WIRE FABRIC. ALL REINFORCEMENT SHALL BE ADEQUATELY SUPPORTED BY BAR CHAIRS IN THE REQUIRED POSITION UNLESS APPROVED OTHERWISE BY THE ENGINEER.
8. DRIVE APPROACHES SHALL BE CONSTRUCTED TO THE STREET RIGHT-OF-WAY LINE OR AT THE LIMITS SHOWN ON THE PLANS AT A GRADE WHICH WILL ALLOW SMOOTH HOOKUP TO THE EXISTING DRIVEWAY. AT THE WRITTEN REQUEST OF THE PROPERTY OWNER, FURTHER GRADING, PAVEMENT REMOVAL, PAVING, ETC. ON PRIVATE PROPERTY MAY BE PERFORMED TO CONNECT TO EXISTING PAVEMENT, TO PROVIDE A FLATTER DRIVEWAY GRADE, OR TO OTHERWISE IMPROVE THE DRIVE. ALL ADDITIONAL COSTS FOR SUCH WORK SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND SHALL NOT BE A PART OF THIS PROJECT.
9. DRIVEWAY WIDTH DENOTED AS "W" ON THE DETAIL DRAWINGS SHALL BE A MINIMUM OF 12' (FEET) AND A MAXIMUM OF 50% OF FLATTED LOT WIDTH, UNLESS THE LOT IS ZONED AS MULTI-FAMILY.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ADA COMPLIANCE FOR SIDEWALK SECTIONS THROUGH DRIVES. ANY SECTION FOUND TO BE NON-COMPLIANT AFTER CONSTRUCTION SHALL BE REMOVED AND REPLACED WITHIN ADA ALLOWANCES BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. SUBSTITUTE DOWELS WITH EXPANSION JOINT WHERE CONCRETE CURB AND GUTTER IS TIED TO MAIN LINE PAVING.



VALLEY CENTER  
STANDARD DETAILS

VALLEY CENTER, KS

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DRAWN BY		DSB
CHECKED BY		MEB

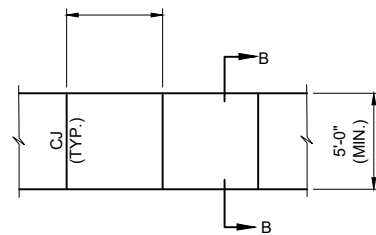
REINFORCED CONCRETE  
DRIVE DETAILS

C-504

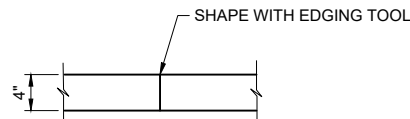


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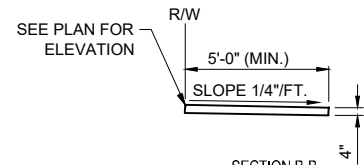
4'-0" (MIN.)  
5'-0" (MAX.)



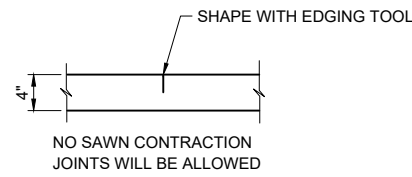
PLAN



CONSTRUCTION JOINT



SECTION B-B

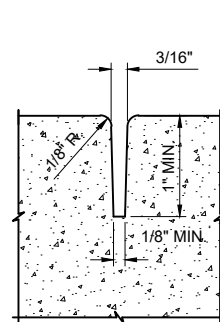


NO SAWN CONTRACTION JOINTS WILL BE ALLOWED

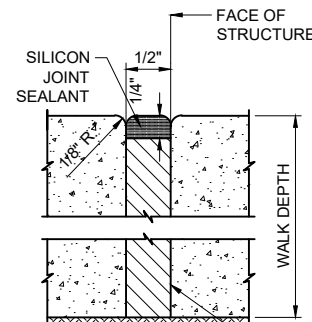
CONTRACTION JOINT

### C1 4" WALK DETAILS

NOT TO SCALE



CONTRACTION JOINT (CJ)



EXPANSION JOINT (EJ)

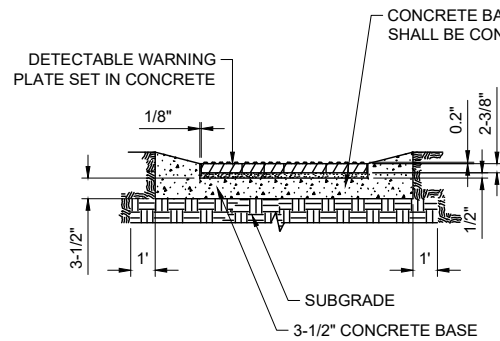
EXPANSION JOINT MATERIAL

### CONCRETE WALK JOINT NOTES

1. PROVIDE 1/2" EXPANSION JOINT MATERIAL AT ALL LOCATIONS WHERE NEW CONCRETE ABUTS EXISTING OR NEW STRUCTURES AND AT BACK OF CURB.

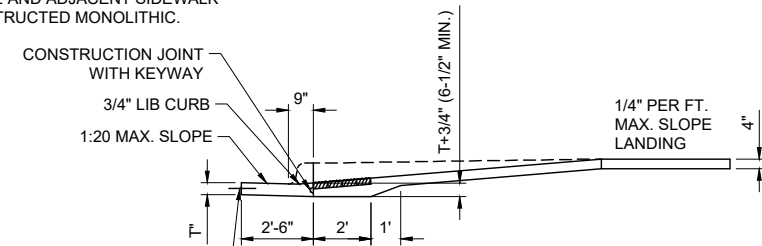
### E1 CONCRETE WALK JOINT DETAILS

NOT TO SCALE



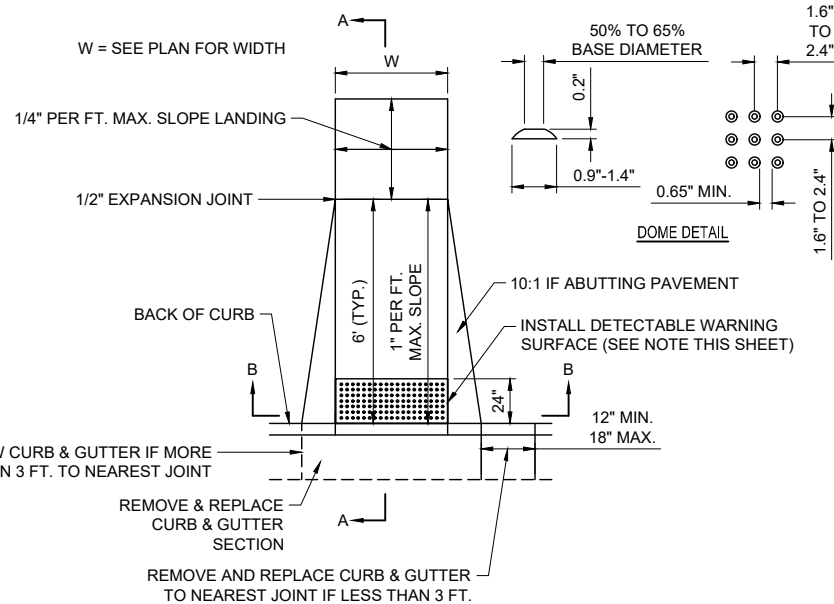
SECTION B-B

NOTE: RAMPS TO COMPLY WITH LATEST ADA GUIDELINES.



SECTION A-A

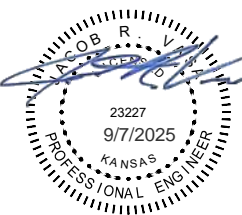
\* T = THICKNESS OF PAVEMENT (VARIABLE)



### D4 STANDARD ACCESSIBLE RAMP

NOT TO SCALE

NOTE: RAMPS TO COMPLY WITH LATEST ADAAG GUIDELINES. PAVESTONE DETECTABLE WARNING PAVERS OR CAST-IN-TACT PANELS (OR AN APPROVED EQUAL) SHALL BE USED IN ALL WHEELCHAIR RAMPS. THE RED PAVER SHALL BE INSTALLED USING A BASKET WEAVE/PARQUET PATTERN. OTHER PATTERNS MAY BE USED WITH APPROVAL OF ENGINEER. SAND FILL JOINTS. ALIGN DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL.



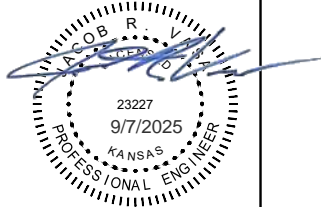
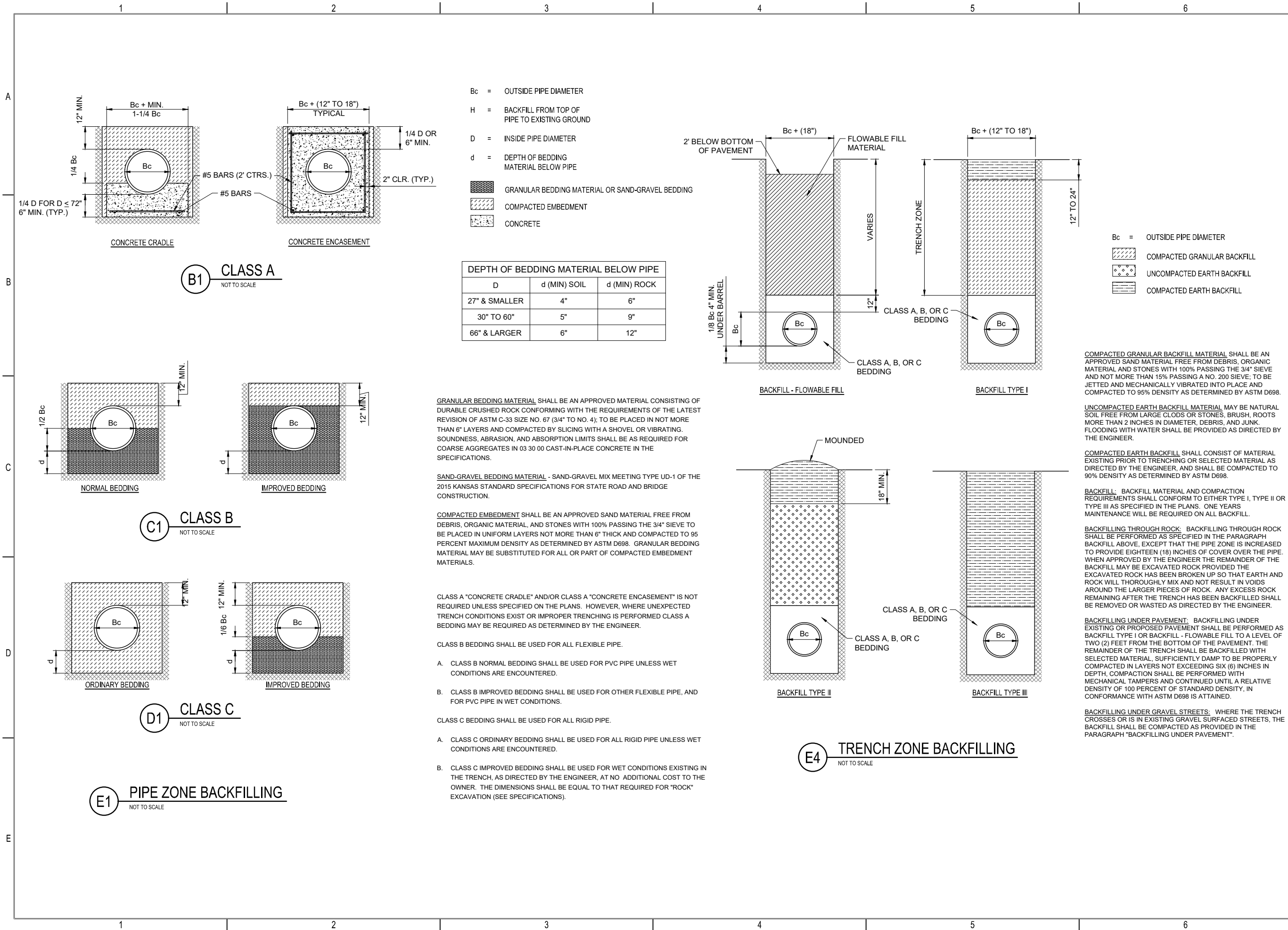
## VALLEY CENTER STANDARD DETAILS VALLEY CENTER, KS

Issue:		
1	ISSUED FOR CONSTRUCTION	03/10/21
JOB NO.	217013-001	
DATE	10 MARCH 2021	
PM	JAG	
DESIGNED BY	JAG	
DRAWN BY	DSB	
CHECKED BY	MEB	

SIDEWALK DETAILS

C-505

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DETAILS.DWG



# VALLEY CENTER STANDARD DETAILS

VALLEY CENTER, KS

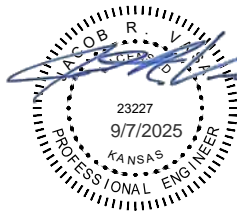
Issue:		
1	ISSUED FOR CONSTRUCTION	03/10/21

JOB NO.	217013-001
DATE	10 MARCH 2021
PM	JAG
DESIGNED BY	JAG
DRAWN BY	DSB
CHECKED BY	MEB

BEDDING & BACKFILL DETAILS

C-506

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 CONCRETE MANHOLE (CIRCULAR).DWG



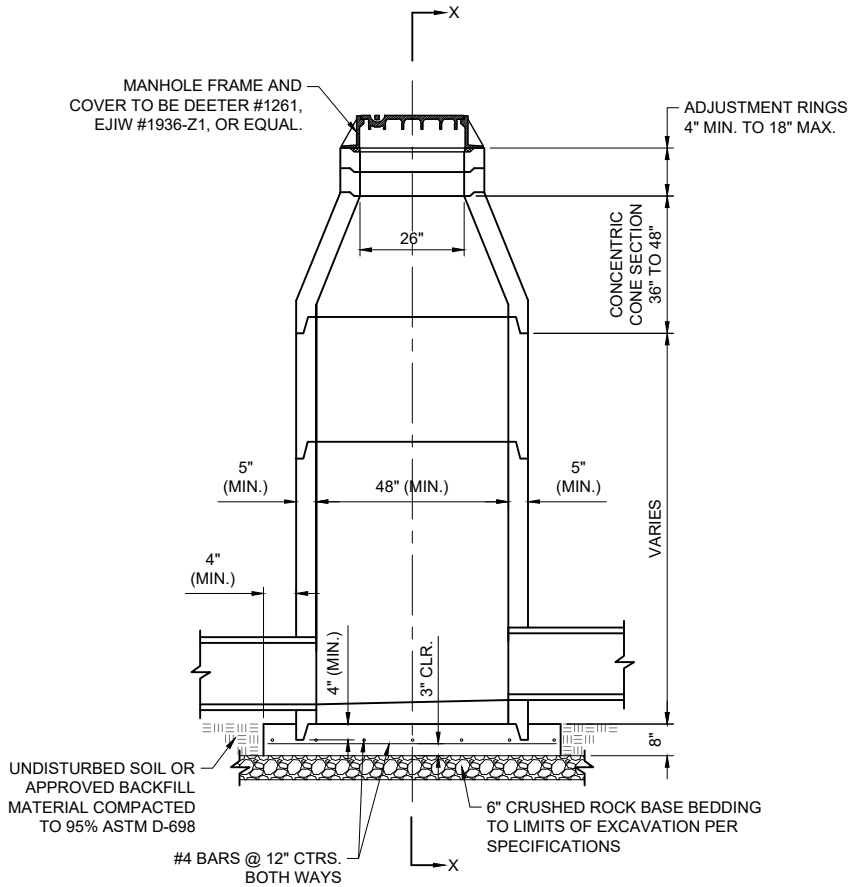
VALLEY CENTER  
 STANDARD DETAILS  
 VALLEY CENTER, KS

Issue:		
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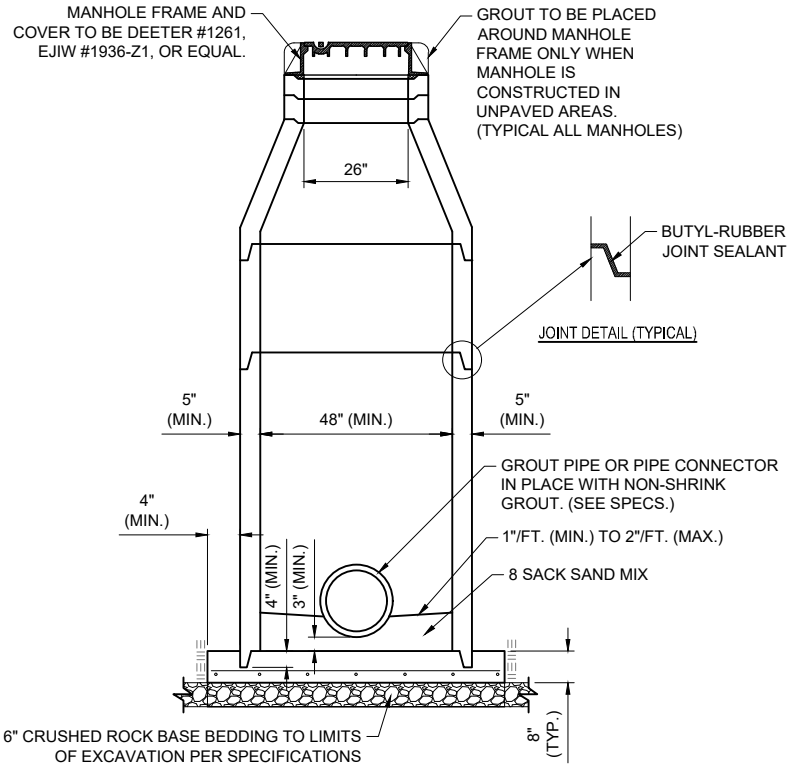
JOB NO.	217013-001
DATE	10 MARCH 2021
PM	JAG
DESIGNED BY	JAG
DRAWN BY	DSB
CHECKED BY	MEB

STORM SEWER PRECAST  
 CONCRETE MANHOLE  
 (CIRCULAR)

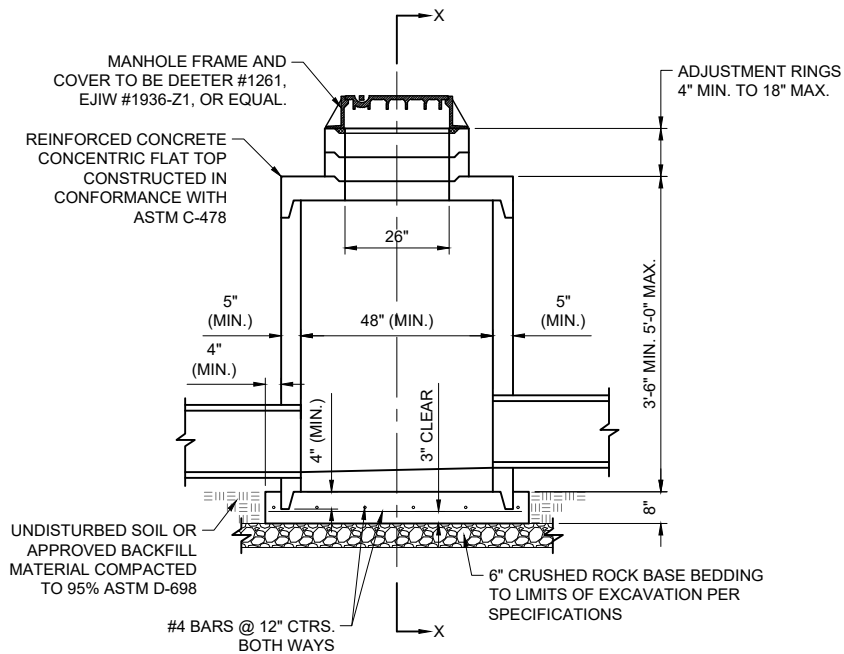
C-507



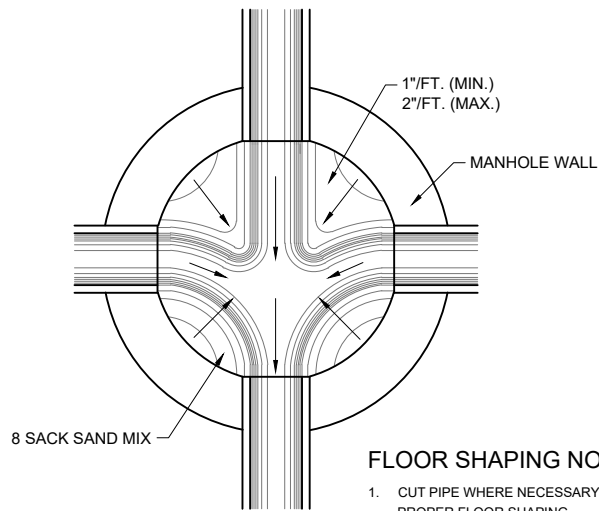
C1 PRECAST STANDARD MANHOLE TYPE "A"  
 NOT TO SCALE



C3 SECTION X-X (TYPICAL)  
 NOT TO SCALE



E1 PRECAST SHALLOW MANHOLE TYPE "B"  
 NOT TO SCALE



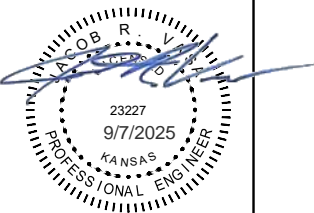
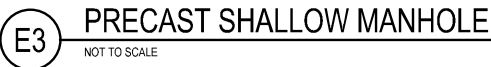
E3 TYPICAL MANHOLE FLOOR SHAPING  
 NOT TO SCALE

PRECAST MANHOLE NOTES

- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
- CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
- MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
- MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
- CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
- THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
- MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-Z1, OR APPROVED EQUAL (NO LOGO).
- FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
- FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.







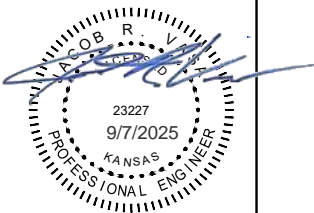
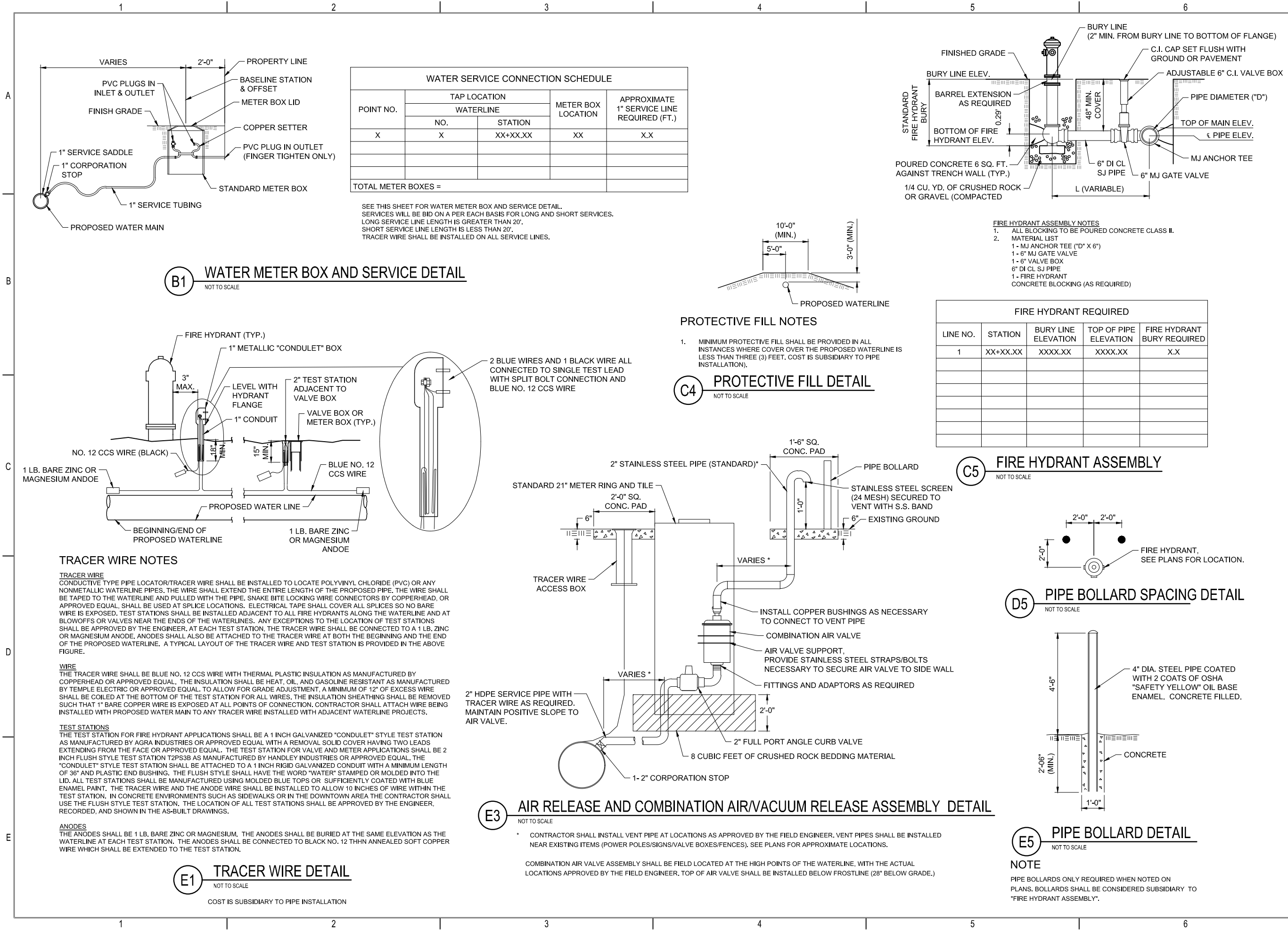
C-514

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PRECAST MANHOLE DETAILS.DWG





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1.DWG



VALLEY CENTER  
STANDARD DETAILS  
VALLEY CENTER, KS

Issue:		
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WATERLINE DETAILS 1

C-516

**B1** VALVE ASSEMBLY DETAIL  
NOT TO SCALE

**B2** ANCHORED VALVE ASSEMBLY DETAIL  
NOT TO SCALE

THRUST AT VALVES	
VALVE	THRUST @ 150 PSI
4"	1,890 LBS.
6"	4,245 LBS.
8"	7,540 LBS.
12"	16,965 LBS.

**B4** LINE VALVE ASSEMBLY DETAIL  
NOT TO SCALE

**C1** BLOW-OFF ASSEMBLY DETAIL  
NOT TO SCALE

VERTICAL THRUST BLOCKS CONCRETE VOLUME

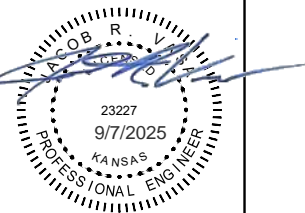
[illegible]

### KEY BLOCK DETAIL

**E1 VALVE BOX DETAIL**  
NOT TO SCALE

**E2 THRUST BLOCK DETAILS (VERTICAL FITTINGS)**

**E4 THRUST BLOCK DETAILS (HORIZONTAL FITTINGS)**  
NOT TO SCALE



# VALLEY CENTER STANDARD DETAILS

## VALLEY CENTER, KS

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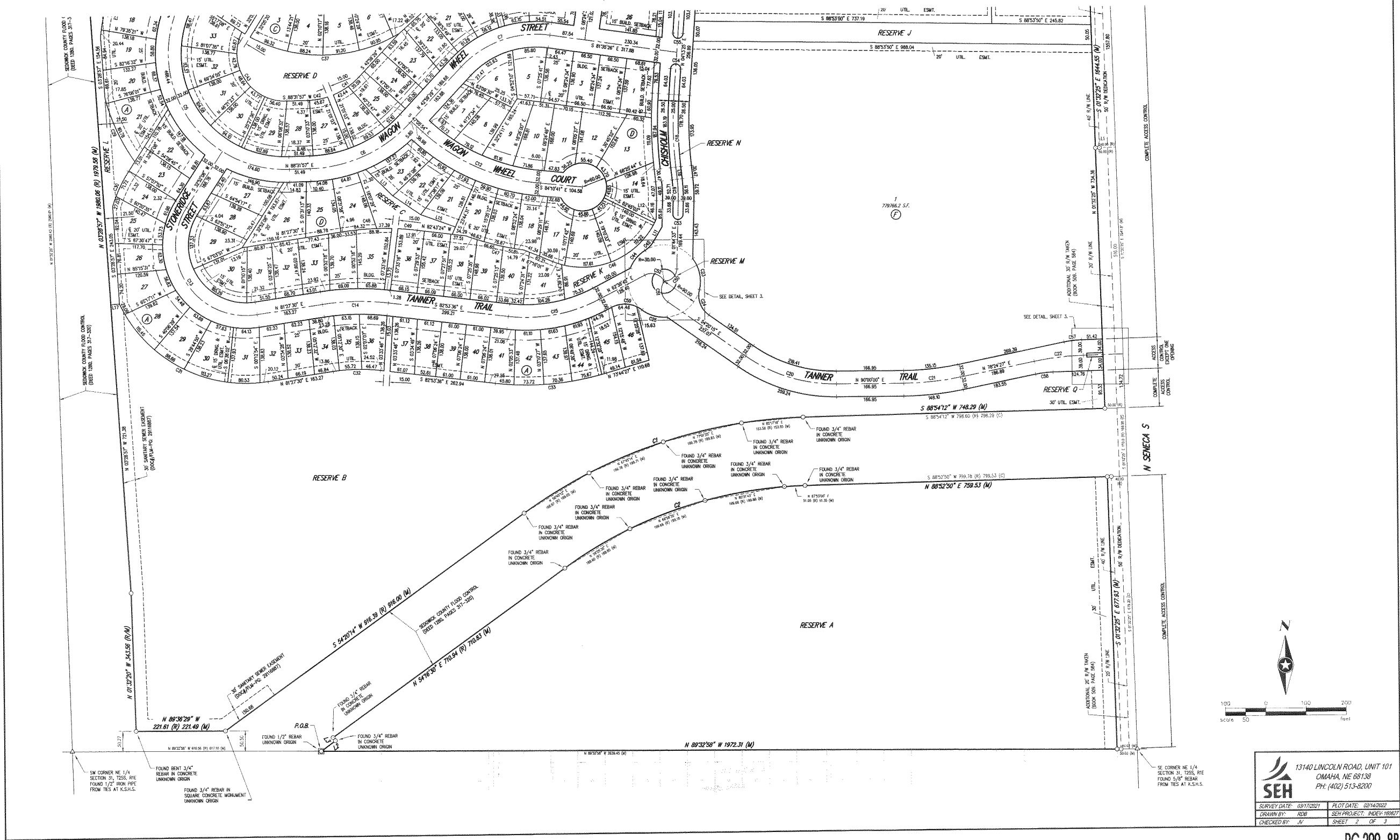
## WATERLINE DETAILS 2

C-517





FINAL PLAT  
**TRAILS END**  
AN ADDITION TO, VALLEY CENTER, SEDGWICK COUNTY, KANSAS.



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SEH Project	HORCA185490	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	--	--	--	--	--	--	--
Designed By	--	--	--	--	--	--	--
Checked By	--	--	--	--	--	--	--



AMBER RIDGE - PHASE 1  
VALLEY CENTER, KANSAS

FINAL PLAT  
----