

SUMMARY OF QUANTITIES

ROAD QUANTITIES			
No.	ITEM	QUANTITY	UNIT
1	CONTRACTOR CONSTRUCTION STAKING	1	LS
2	TRAFFIC CONTROL	1	LS
3	EROSION CONTROL	1	LS
4	PAVEMENT REMOVAL	1,283	SY
5	EXCAVATION AND EMBANKMENT	40	CY
6	6" CONCRETE DRIVEWAY (RESIDENTIAL)	633	SF
7	7" REINFORCED CONCRETE PAVEMENT	980	SY
8	8" NON-REINFORCED CONCRETE PAVEMENT	60	SY
9	BRICK PAVEMENT (STREET)	113	SY
10	COMBINED CURB AND GUTTER, TYPE IV	111	LF
11	4" CONCRETE SIDEWALK	256	SF

WATERLINE QUANTITIES			
No.	ITEM	QUANTITY	UNIT
12	10" PVC WATERLINE, PC 235	74	LF
13	10" 90° BEND	4	EA
14	10" SWIVEL X SOLID ADAPTER	1	EA
15	10" RESTRAINED COUPLING	2	EA
16	10" GATE VALVE AND BOX	1	EA
17	10" THRUST COLLAR ON EXISTING	2	EA
18	MAKE CONNECTION TO EXISTING 10" CI WATERLINE; STA. 30+00	1	EA
19	MAKE CONNECTION TO EXISTING 10" CI WATERLINE; STA. 30+63	1	EA

SANITARY SEWER QUANTITIES			
No.	ITEM	QUANTITY	UNIT
20	8" SANITARY SEWER (PVC)	545	LF
21	SERVICE (WYE) CONNECTION	17	EA
22	4 FT. DIA. STANDARD MANHOLE, TYPE I (0'-6")	3	EA
23	4 FT. DIA. ADDITIONAL DEPTH FOR STD. MANHOLE, TYPE I	9	VF
24	BYPASS PUMPING	1	LS
25	FERNCO ECCENTRIC REDUCER	1	EA
26	REMOVE AND REPLACE 7" REINFORCED CONCRETE PAVEMENT	51	SY



Know what's below. Call 811 before you dig or visit us at www.kansasoneline.com

"KANSAS ONE-CALL" IS THE UNDERGROUND UTILITY NOTIFICATION CENTER FOR THE STATE OF KANSAS. THROUGH THIS FACILITY, YOU CAN NOTIFY OPERATORS OF UNDERGROUND FACILITIES OF PROPOSED EXCAVATIONS TO REQUEST THAT THE UNDERGROUND FACILITIES BE MARKED BEFORE YOU DIG. KANSAS STATUTE ANNOTATED #66-1801 THROUGH #66-1815 REQUIRES ANYONE WHO ENGAGES IN ANY TYPE OF EXCAVATION TO PROVIDE ADVANCE NOTICE OF AT LEAST TWO FULL WORKING DAYS, BUT NOT MORE THAN 15 CALENDAR DAYS, EXCLUDING WEEKENDS AND HOLIDAYS. THE PERSON WHO IS DOING THE WORK IS RESPONSIBLE FOR CALLING KANSAS ONE-CALL. IF THE OWNER CONTRACTS WITH A PROFESSIONAL EXCAVATOR TO DO THE EXCAVATION, THEN THE PROFESSIONAL EXCAVATOR IS RESPONSIBLE FOR CALLING KANSAS ONE-CALL. THE SERVICE PROVIDED BY KANSAS ONE-CALL TO EXCAVATORS IS FREE OF CHARGE. CALL 785-368-3111 FOR EMERGENCIES WITH CITY OF TOPEKA UTILITIES.

NON-EMERGENCY UTILITY OWNER CONTACTS:

COX COMMUNICATIONS (CABLE TV):
 931 SW HENDERSON RD.
 TOPEKA, KS 66615
 GLENN CALHOON
 (785) 215-6705
 (785) 207-1693
 GLENN.CALHOON@COX.COM

LUMEN (FIBER OPTIC):
 711 E. 19TH ST.
 KANSAS CITY, MO 64108
 RICK REDEL
 (816) 518-2804
 RICHARD.REDEL@LUMEN.COM
 RELOCATIONS@LUMEN.COM

CITY OF TOPEKA (STORM SEWER/ SANITARY SEWER):
 CITY OF TOPEKA, WPC DIV.
 1115 NE POPLAR ST.
 TOPEKA, KS 66616
 DARRIN A. COFFLAND
 (785) 368-2467
 DCOFFLAND@TOPEKA.ORG

CITY OF TOPEKA (WATER):
 CITY OF TOPEKA, WATER DIST.
 3245 NW WATERWORKS DR.
 TOPEKA, KS 66606
 DUNCAN THEURI
 (785) 368-0152
 DTHEURI@TOPEKA.ORG

EVERGY (ELECTRIC):
 P.O. BOX 889
 4001 NW 14TH ST.
 TOPEKA, KS 66603
 JENNY ROHR
 (785) 580-2123
 JENNIFER.ROHR@EVERGY.COM

TOPEKA SCHOOL DISTRICT 501 (FIBER OPTIC):
 USD 501, INFO. TECH.
 1900 SW HOPE ST.
 TOPEKA, KS 66604
 JOERGEN LAIGAARD
 (785) 438-4750
 JLAIGAARD@TPS501.ORG

AT&T COMMUNICATIONS (TELEPHONE):
 AT&T CORP.
 220 SE 6TH ST., STE. 236
 TOPEKA, KS 66606
 EZRA BROWN
 (785) 596-9905
 EB409Q@ATT.COM

GIANT COMMUNICATIONS (FIBER OPTIC):
 GIANT COMMUNICATIONS
 515 S KANSAS AVE. STE. 210
 TOPEKA, KS 66603
 LANCE LYMAN
 (785) 362-3312
 LANCELYMAN@GIANTCOMM.NET

CITY OF TOPEKA (FIBER OPTIC):
 CITY OF TOPEKA, INFO. TECH.
 620 SE MADISON ST., 3RD FL.
 TOPEKA, KS 66603
 WESLEY L. WHITE
 (785) 338-2633
 WLWHITE@TOPEKA.ORG

KANSAS GAS SERVICE (GAS):
 200 E 1ST ST.
 TOPEKA, KS 66603-3603
 ANNA FRIZELL
 (785) 431-4276
 (785) 438-7017 (CELL)
 ANNA.FRIZELL@ONEGAS.COM
 FOR GAS LEAKS 1-888-482-4950 & CALL 911 IMMEDIATELY

CITY OF TOPEKA (TRAFFIC SIGNAL):
 CITY OF TOPEKA, TRAF. OPS.
 927 NW HARRISON ST.
 TOPEKA, KS 66612
 DUANE MORRIS
 (785) 368-3913
 DMORRIS@TOPEKA.ORG

KSFIBERNET (FIBER OPTIC):
 KANSAS FIBER NETWORK LLC
 10875 BENSON DR., STE. 250
 OVERLAND PARK, KS 66210
 BRAD BURGER
 (913) 213-2937
 BBURGER@KSFIBER.NET

SURVEY CONTROL

CONTROL SUMMARY

HORIZONTAL DATUM/COORDINATE SYSTEM: NAD 83 (2011) KANSAS NORTH ZONE

PROJECT COORDINATE SYSTEM: (GRID) ON DESCRIBED COORDINATE SYSTEM

VERTICAL DATUM: NAVD 88

SCALE POINT: NORTHING: 0

EASTING: 0

COMBINED ADJUSTMENT FACTOR (CAF): GROUND TO GRID=0.99992230

GRID TO GROUND=1.000077104

DISTANCE UNITS: US SURVEY FEET

BENCH MARKS

BM-201

ELEV: 928.15 (NAVD 88)

SQUARE CUT ON TOP OF CURB ON WEST SIDE OF NORTH-SOUTH ALLEY AND ON NORTH SIDE OF SW 3RD STREET.

BM-202

ELEV: 922.20 (NAVD 88)

SQUARE CUT ON TOP OF CURB ON EAST SIDE OF NORTH-SOUTH ALLEY AND ON NORTH SIDE OF SW 2ND STREET.

HORIZONTAL CONTROL POINTS

CP-101

N: 273,120.5880 E: 1,967,061.3290

60D NAIL SET IN CONCRETE JOINT.

1. 6.4' W TO CENTERLINE OF NORTH-SOUTH ALLEY.

2. 11.4' S TO NORTH BACK OF CURB ALONG SW 3RD STREET.

3. 15.9' WSW TO EAST FACE OF POWER POLE.

CP-102

N: 273,689.8250 E: 1,967,027.7250

1/2" REBAR WITH BLUE "PEC CP" CAP.

1. 2.3' E TO WEST BACK OF CURB OF NORTH-SOUTH ALLEY.

2. 10.5' S TO NORTH BACK OF CURB ALONG SW 2ND STREET.

3. 9.7' SSE TO NORTH FACE OF POWER POLE.

CP-103

N: 273,698.9080 E: 1,967,238.3640

1/2" REBAR WITH BLUE "PEC CP" CAP.

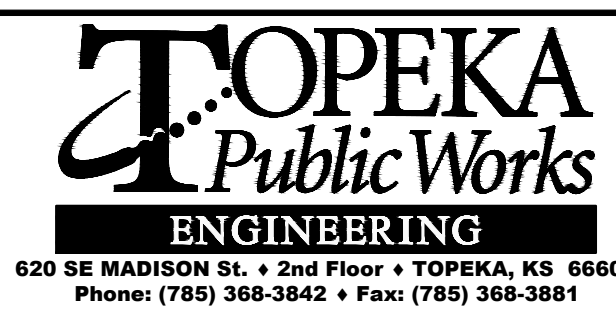
1. 13.0' S TO NORTH BACK OF CURB ALONG SW 2ND STREET EXTENDED.

2. 49.8' E TO WEST BACK OF CURB ALONG SW GREENWOOD AVENUE EXTENDED.

3. 25.5' ENE TO BASE OF STREET SIGN POST.

NO.	DATE:	REVISION

DRAWN BY:	CTS
DESIGNED BY:	FSA
APPROVED BY:	FSA
SURVEYED BY:	PEC
TOPEKA PM:	RB



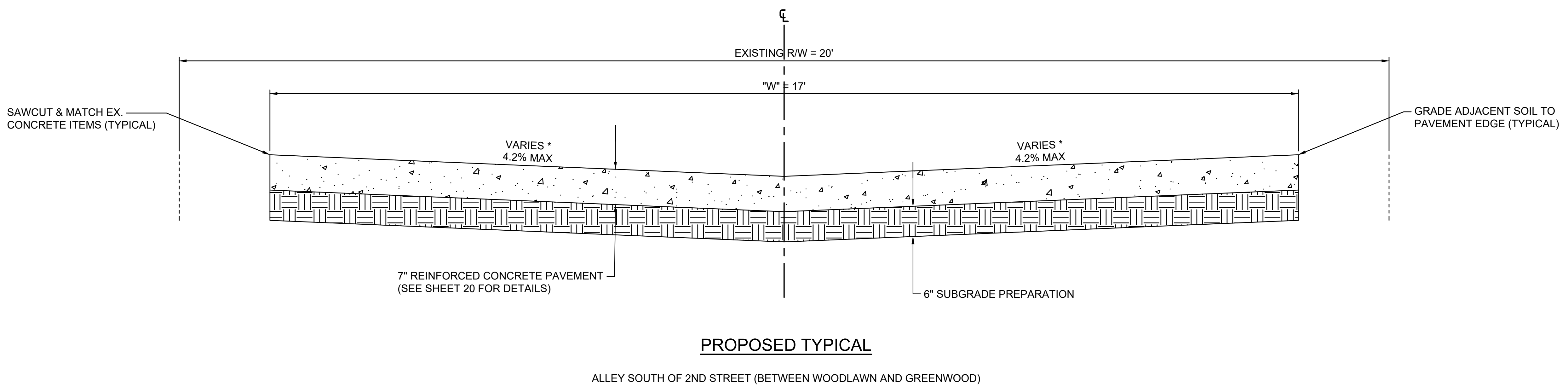
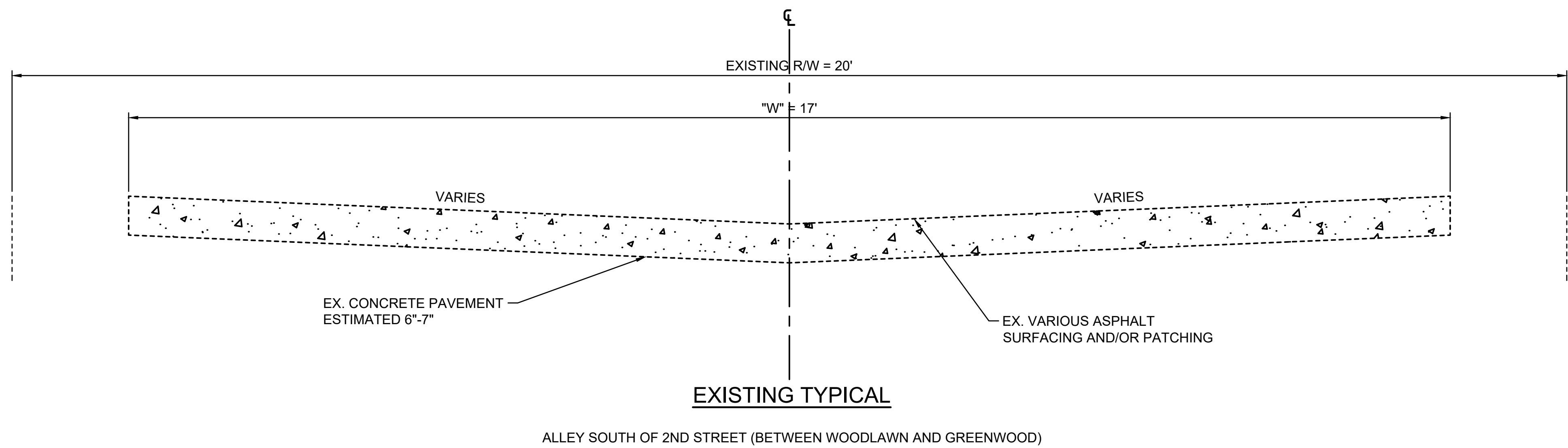
ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE

ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE

SEAL SHEET & UTILITY CONTACTS & SURVEY CONTROL

DATE:	FEBRUARY 2026
SHEET:	2 OF 36
PROJ.:	841201.02/281250.18/291128.10
PEC#:	221114-000



* SEE SHEET NO. 5-7, PLAN & PROFILE
 SHEET NO. 9-10, PAVING PLAN
 SHEET NO. 30-36, CROSS SECTIONS
 FOR PROPOSED PAVEMENT ELEVATIONS

NO.	DATE:	REVISION

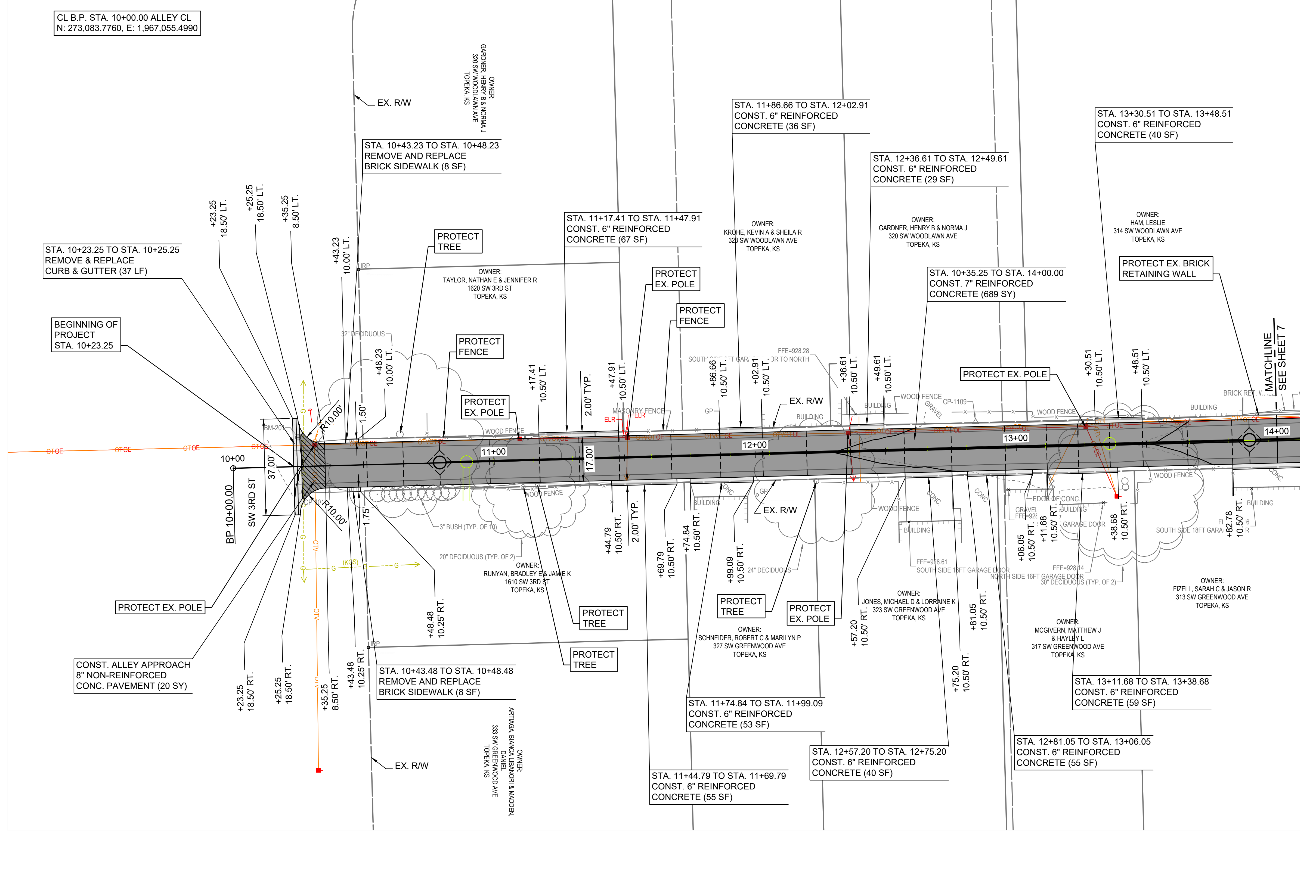
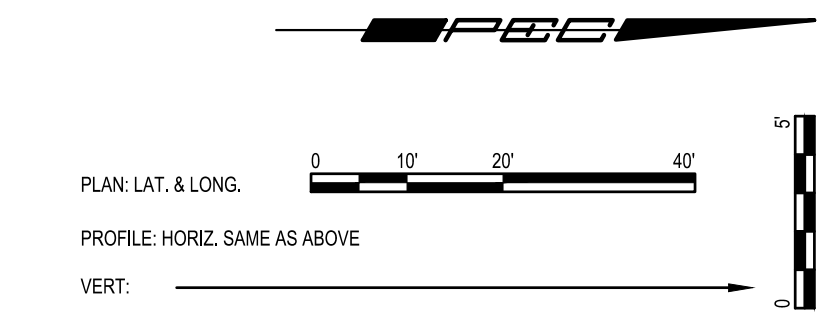
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 TYPICAL SECTION

DATE: FEBRUARY 2026
 SHEET: 4 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000

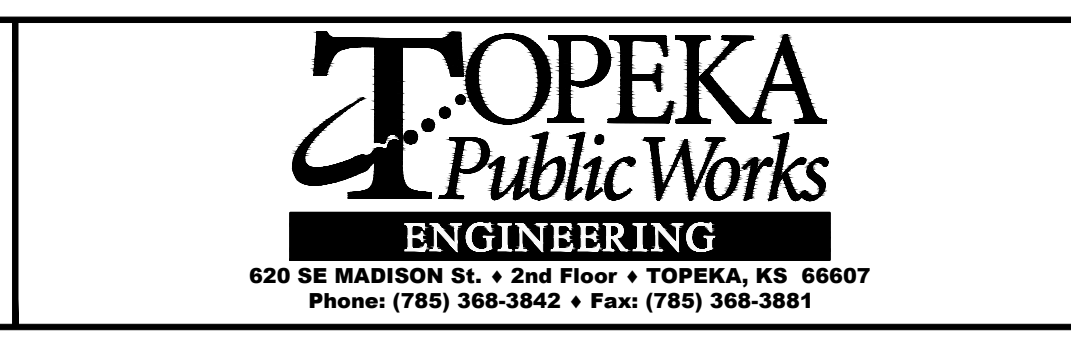


LEGEND

7" REINFORCED CONCRETE
8" NON-REINFORCED CONCRETE
CURB & GUTTER/VALLEY GUTTER
SIDEWALK
BRICK PAVEMENT (STREET)

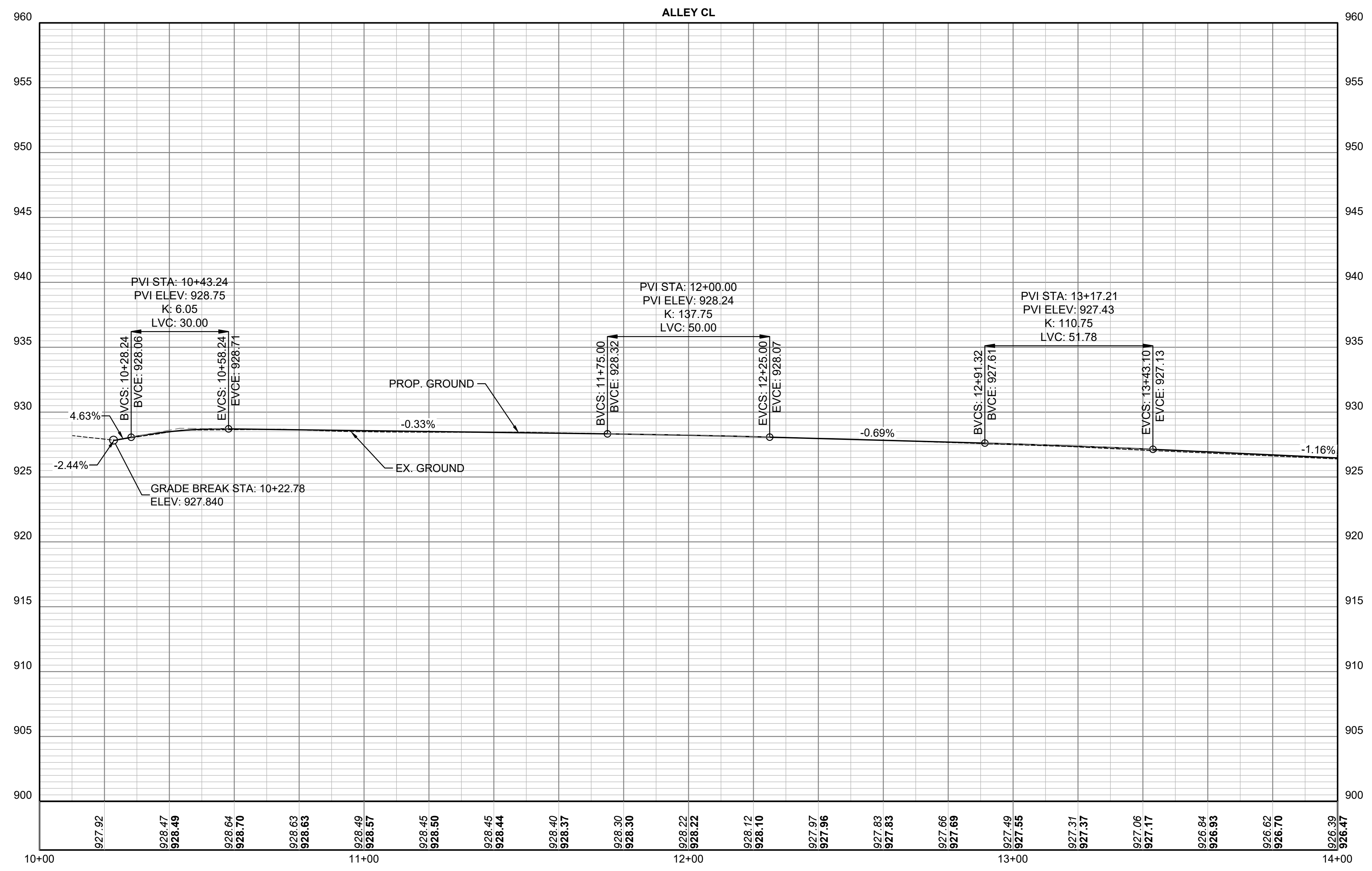
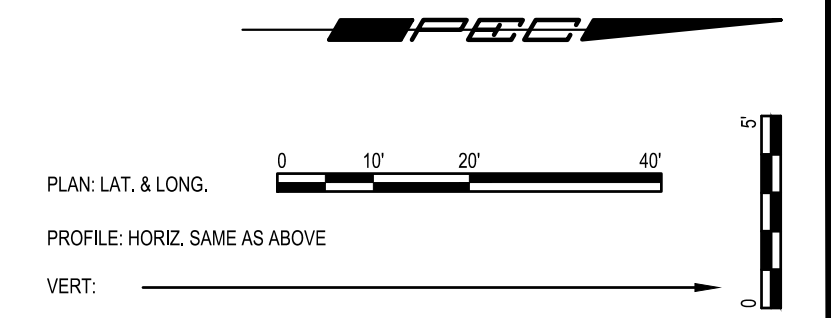
NO.	DATE:	REVISION

DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



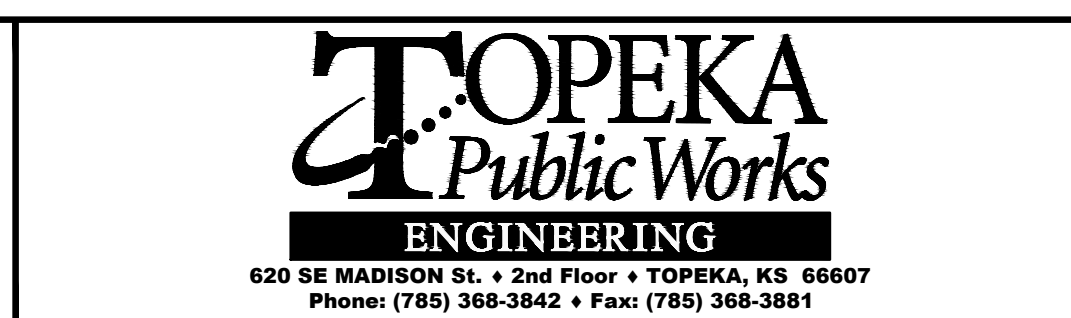
ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

DATE: FEBRUARY 2026
 SHEET: 5 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



NO.	DATE:	REVISION

DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB

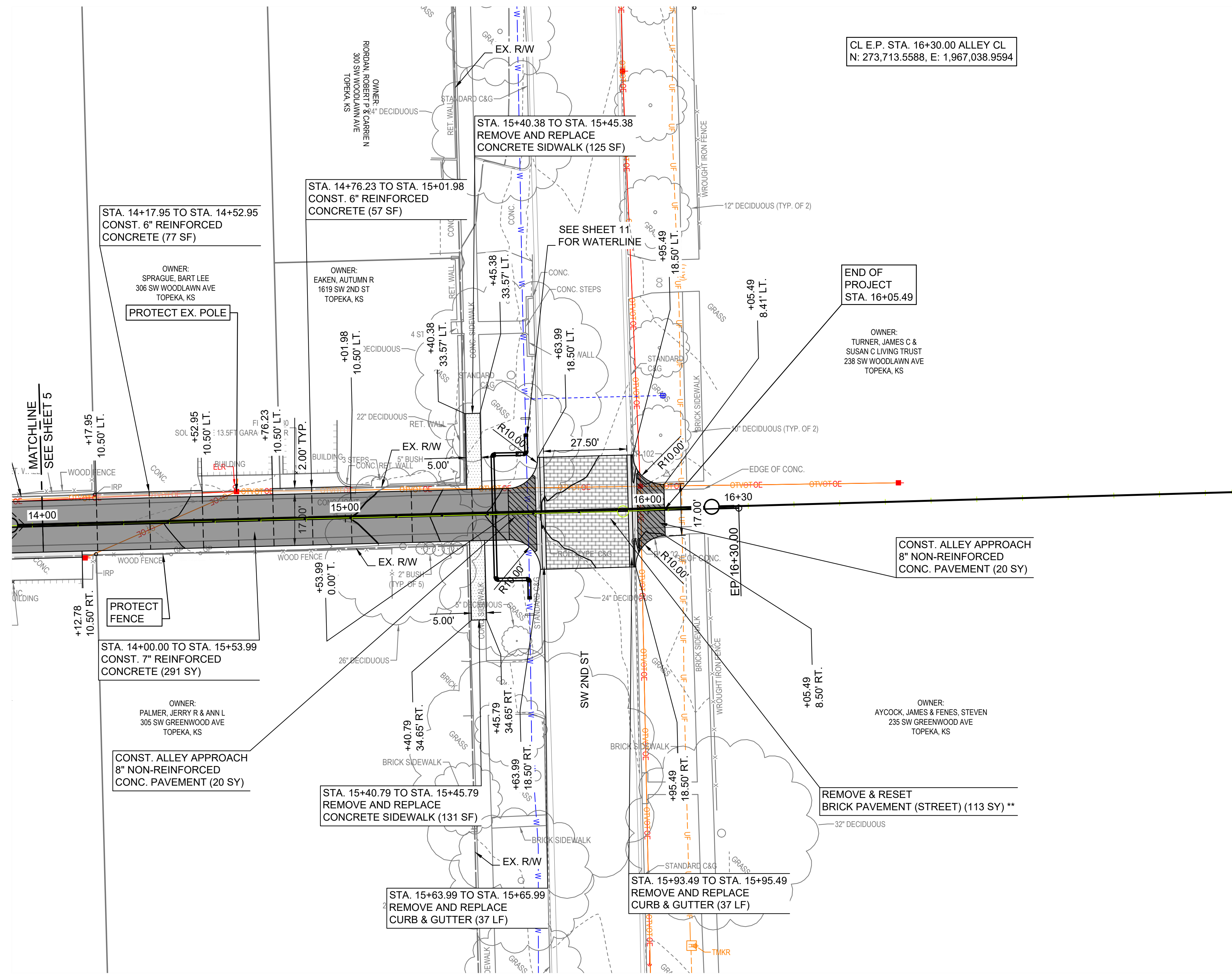


ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE

ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

PROFILE
 STA. 10+00.00 TO STA. 14+00.00

DATE: FEBRUARY 2026
 SHEET: 6 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



CL E.P. STA. 16+30.00 ALLEY CL
N: 273,713.5588, E: 1,967,038.9594

** DUE TO VARIATION OF WIDTH IN EXISTING PAVEMENT, ADDITIONAL BRICK MAY BE REQUIRED TO MATCH PROPOSED PAVEMENT. CONTACT THE CITY OF TOPEKA STREET MAINTENANCE DEPARTMENT FOR ADDITIONAL BRICK. LOCATED AT 201 N TOPEKA BLVD., PHONE NO. : 785-363-3803

STA. 14+17.95 TO STA. 14+52.95
CONST. 6" REINFORCED CONCRETE (77 SF)

STA. 14+76.23 TO STA. 15+01.98
CONST. 6" REINFORCED CONCRETE (57 SF)

STA. 15+40.38 TO STA. 15+45.38
REMOVE AND REPLACE CONCRETE SIDEWALK (125 SF)

END OF PROJECT
STA. 16+05.49

STA. 14+00.00 TO STA. 15+53.99
CONST. 7" REINFORCED CONCRETE (291 SY)

CONST. ALLEY APPROACH
8" NON-REINFORCED CONCR. PAVEMENT (20 SY)

CONST. ALLEY APPROACH
8" NON-REINFORCED CONCR. PAVEMENT (20 SY)

STA. 15+40.79 TO STA. 15+45.79
REMOVE AND REPLACE CONCRETE SIDEWALK (131 SF)

REMOVE & RESET BRICK PAVEMENT (STREET) (113 SY) **

STA. 15+63.99 TO STA. 15+65.99
REMOVE AND REPLACE CURB & GUTTER (37 LF)

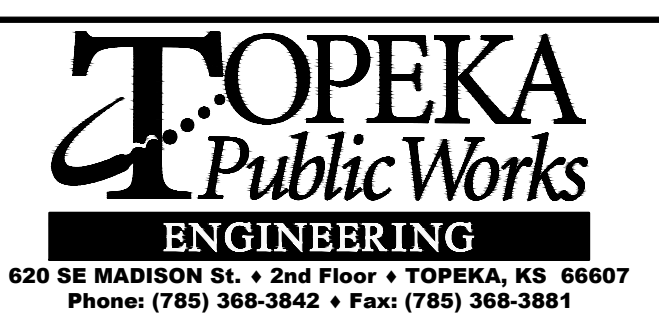
STA. 15+93.49 TO STA. 15+95.49
REMOVE AND REPLACE CURB & GUTTER (37 LF)

LEGEND

- 7" REINFORCED CONCRETE
- 8" NON-REINFORCED CONCRETE
- CURB & GUTTER/VALLEY GUTTER
- SIDEWALK
- BRICK PAVEMENT (STREET)

NO.	DATE:	REVISION

DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB

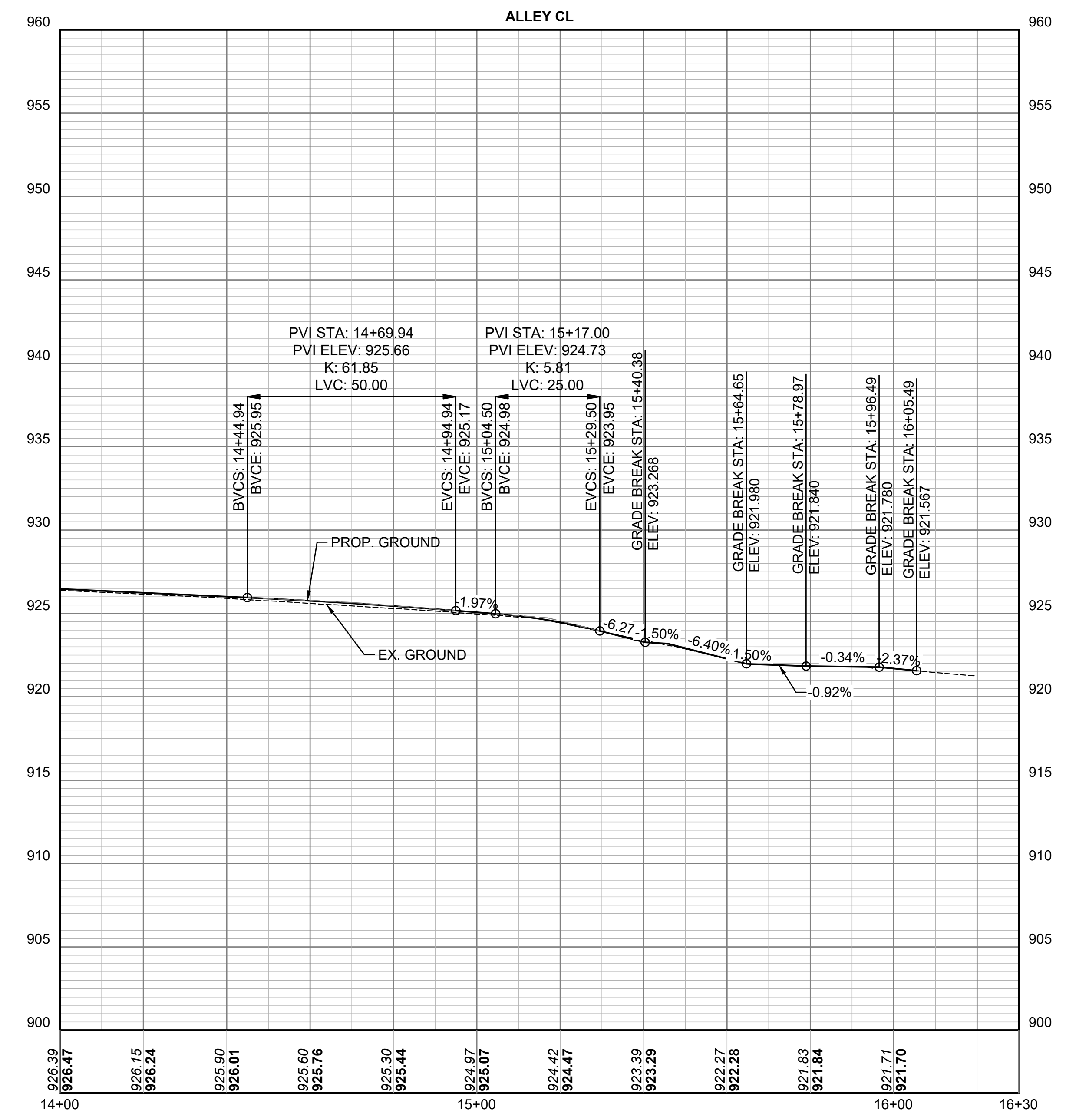
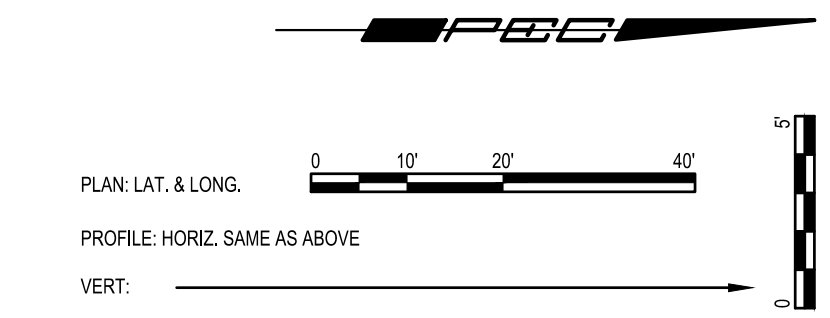


ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN
WOODLAWN AVE AND GREENWOOD AVE

ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

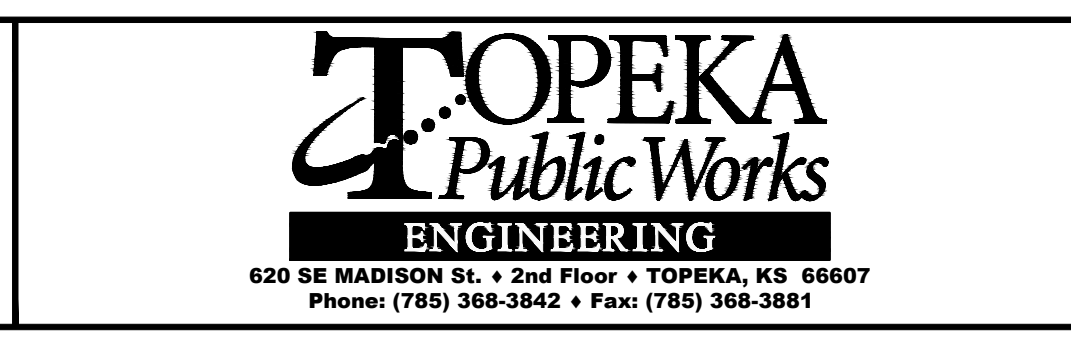
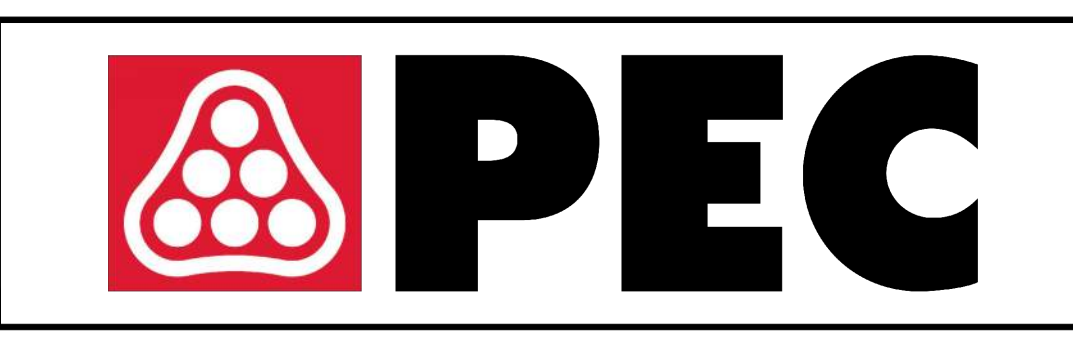
PLAN
 STA. 14+00.00 TO STA. 16+30.00

DATE: FEBRUARY 2026
 SHEET: 7 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



NO.	DATE:	REVISION

DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB

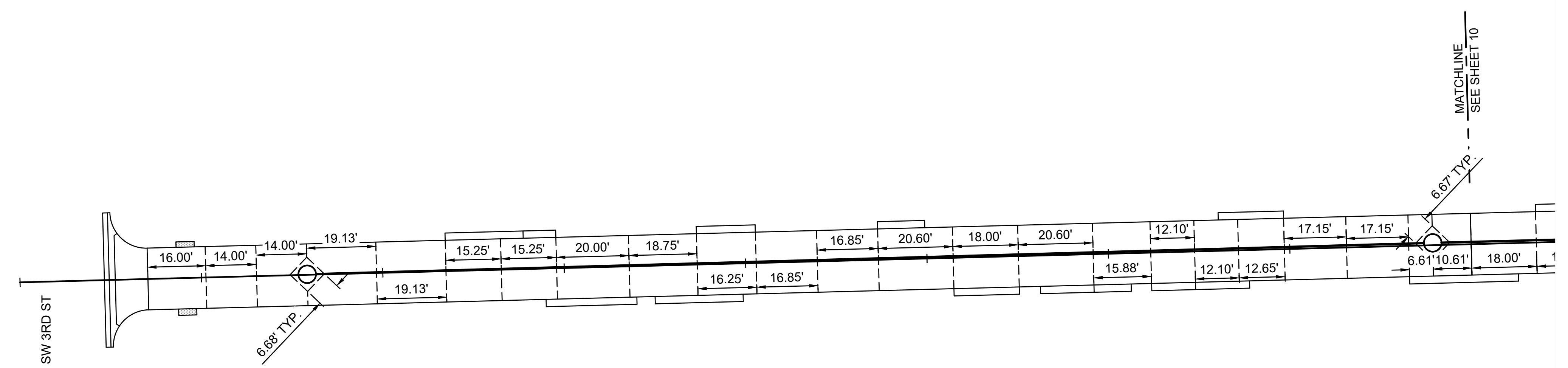
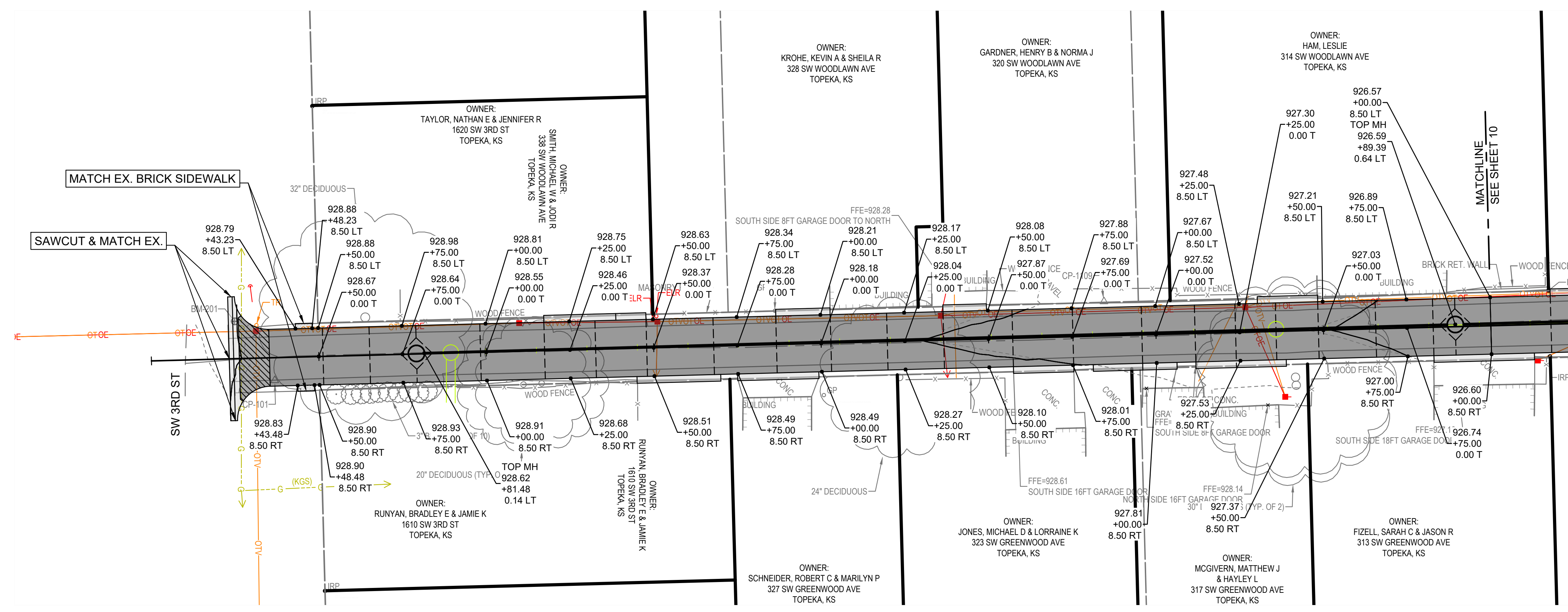


ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE

ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

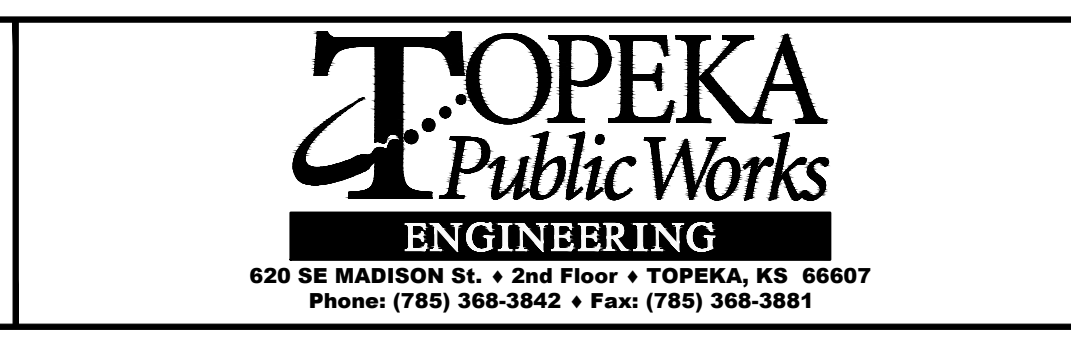
PROFILE
 STA. 14+00.00 TO STA. 16+30.00

DATE: FEBRUARY 2026
 SHEET: 8 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



NO.	DATE:	REVISION

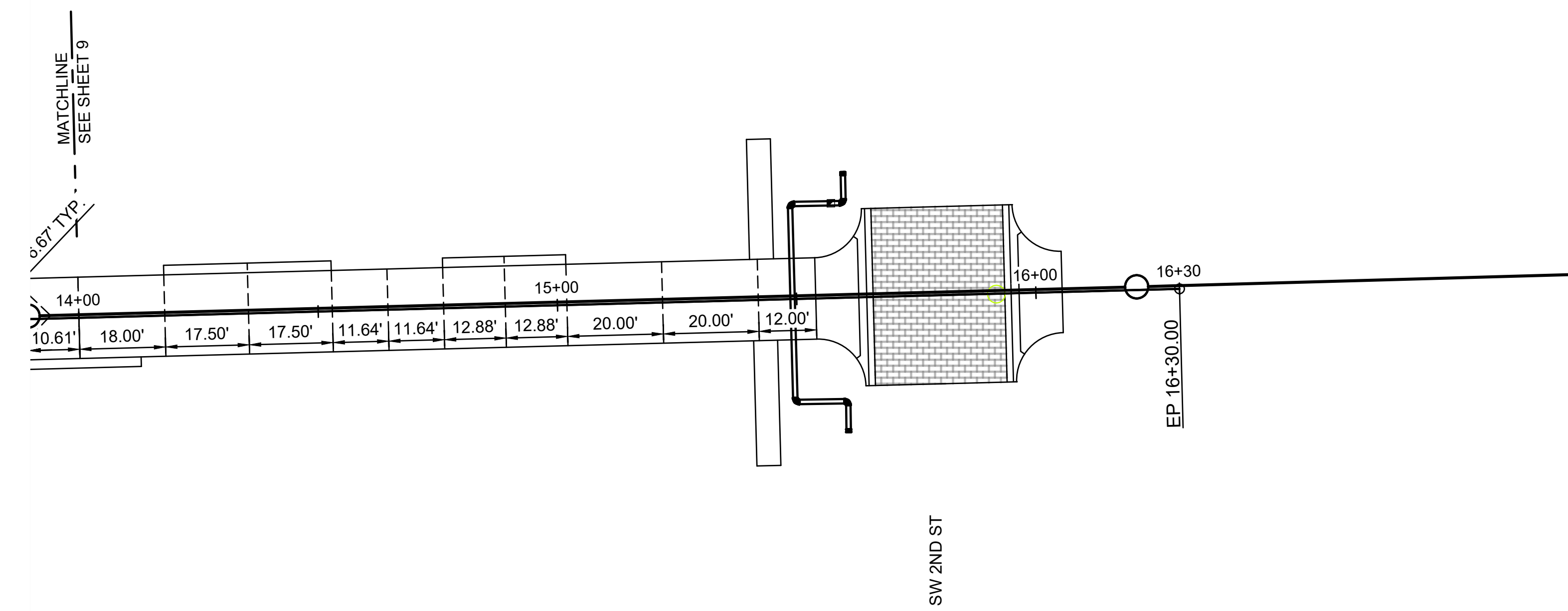
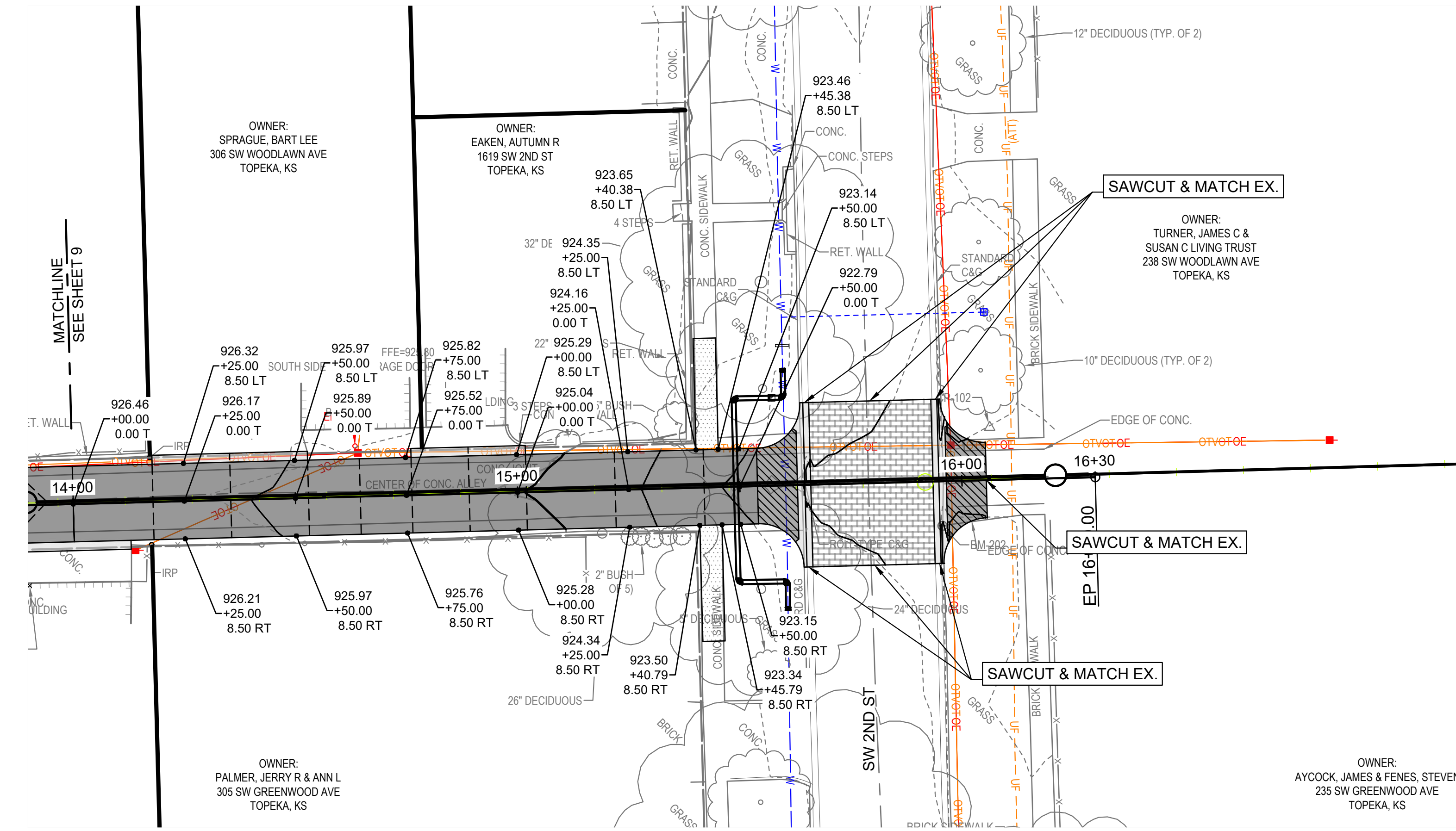
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN
 WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

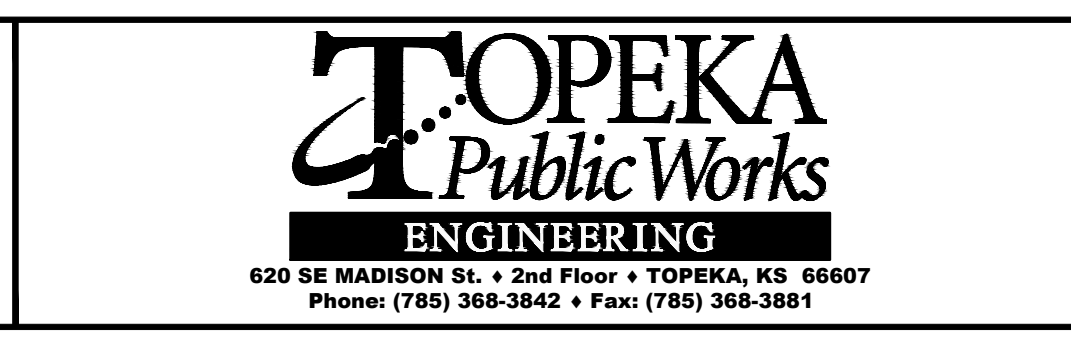
DATE: FEBRUARY 2026
 SHEET: 9 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000

PAVING PLAN
 STA. 10+00.00 TO STA. 14+00.00



NO.	DATE:	REVISION

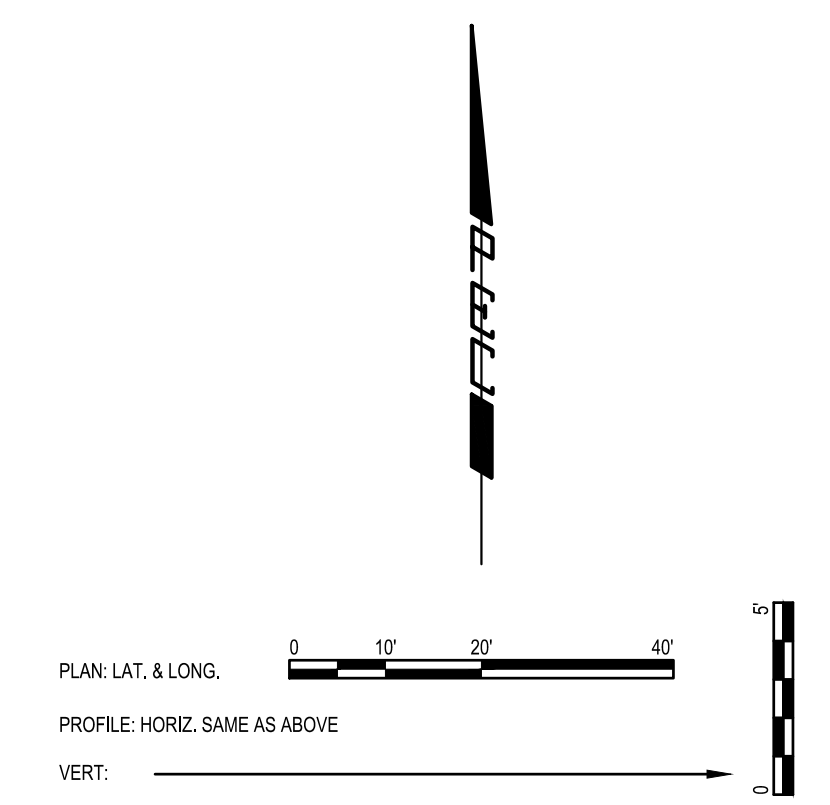
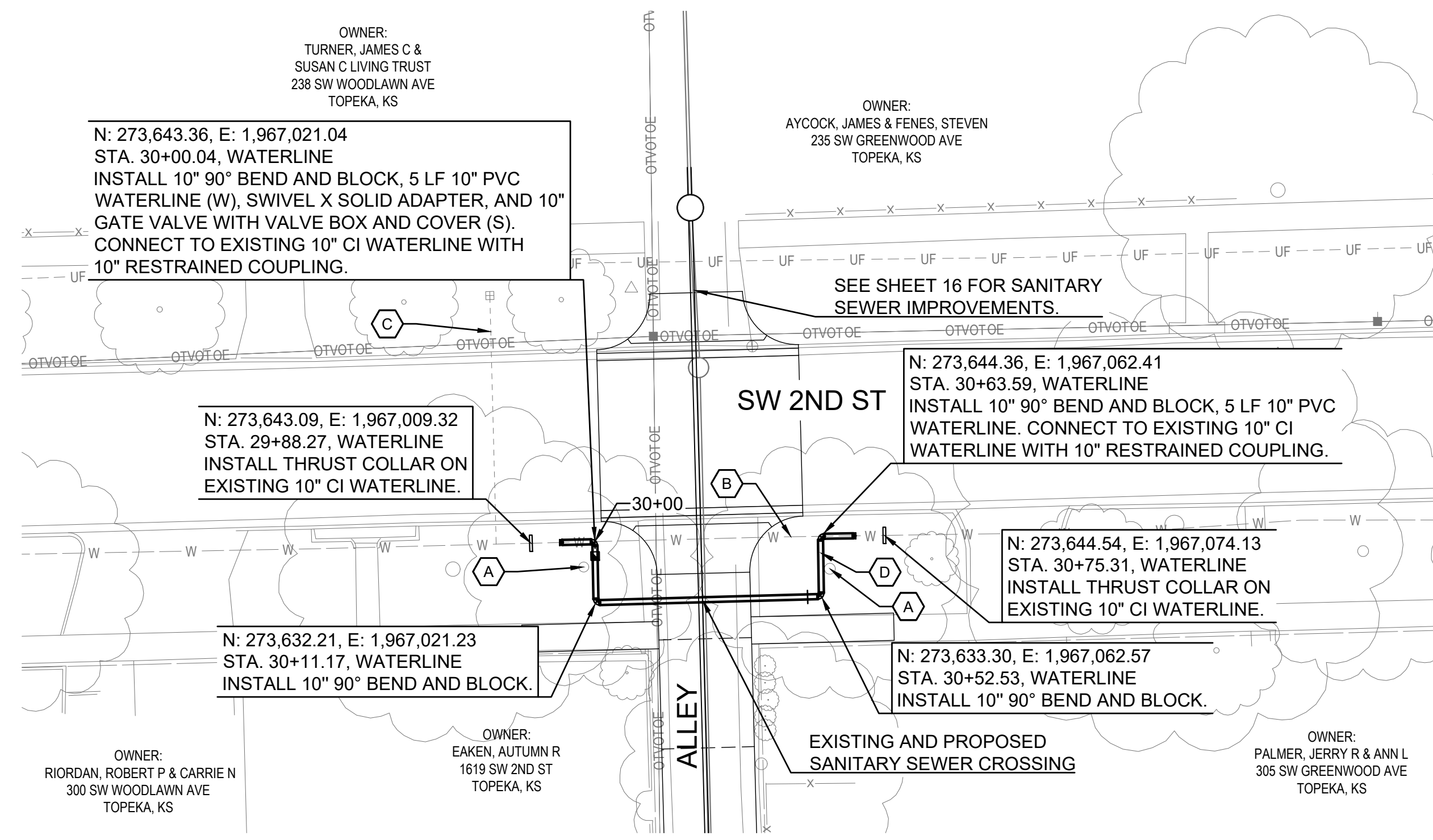
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

PAVING PLAN
 STA. 14+00.00 TO STA. 16+30.00

DATE: FEBRUARY 2026
 SHEET: 10 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000

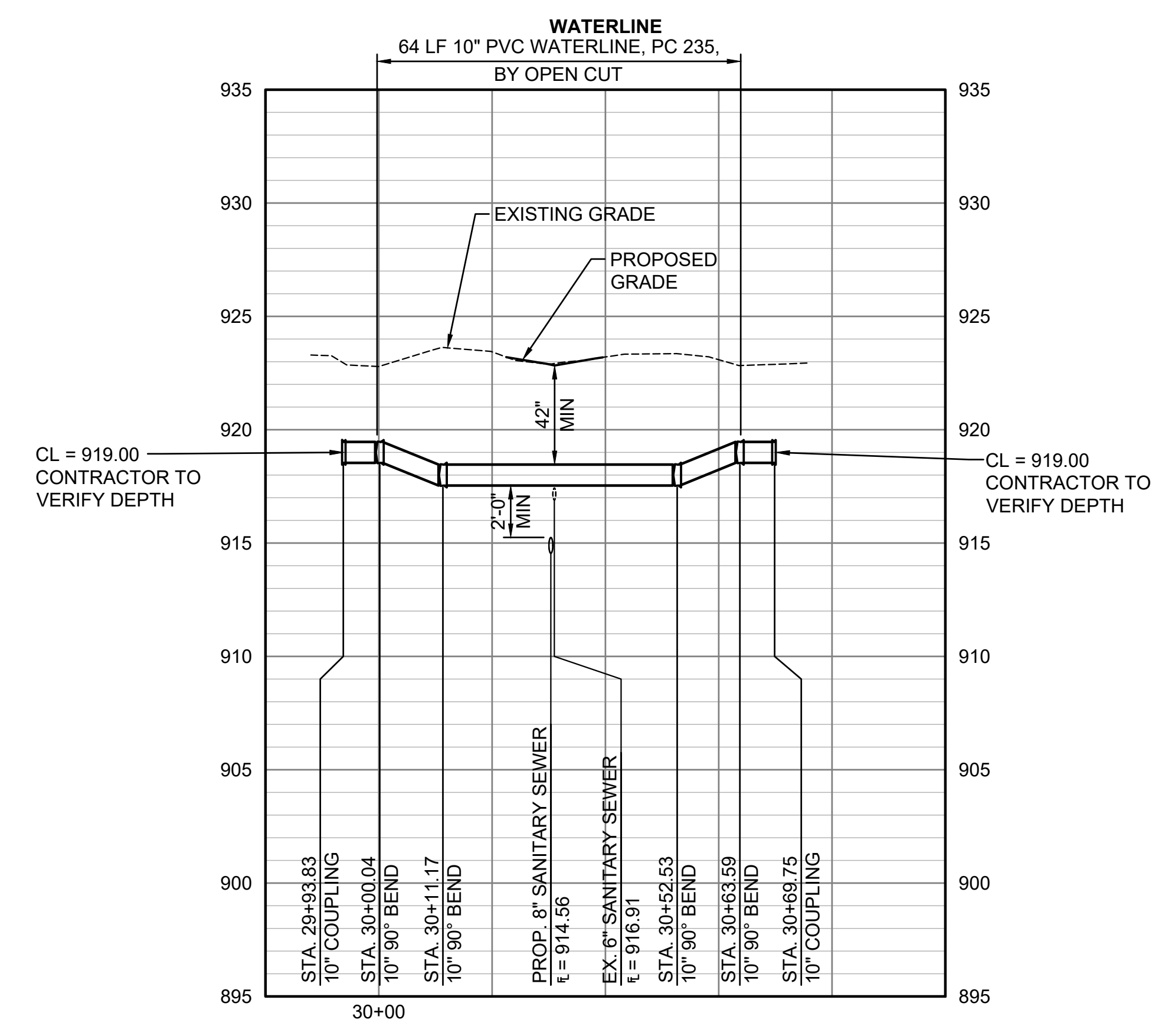


KEY NOTES:

- (A) REMOVE TREE
- (B) EXISTING 10" CI WATERLINE TO BE ABANDONED IN PLACE.
- (C) PROTECT EXISTING WATER METER AND SERVICE LINE.
- (D) PROVIDE TEMPORARY FIRE HYDRANT AND NECESSARY MATERIALS FOR PRESSURE TESTING, DISINFECTING, AND FLUSHING. (SUBSIDIARY)

NOTES:

1. SEE SHEETS 4 - 10 FOR ROADWAY AND ALLEY IMPROVEMENT DETAILS.
2. THE CONTRACTOR SHALL COORDINATE THE WATERLINE INSTALLATION WITH THE REMOVAL AND REPLACEMENT OF THE SANITARY SEWER.
3. THE CONTRACTOR SHALL CONSTRUCT THE SANITARY SEWER PRIOR TO THE WATERLINE AND PROTECT THE EXISTING WATERLINE DURING SAID CONSTRUCTION. ANY TEMPORARY FITTINGS NECESSARY TO CONSTRUCT THE WATERLINE SHALL BE SUBSIDIARY TO THE PROJECT.



NO.	DATE:	REVISION

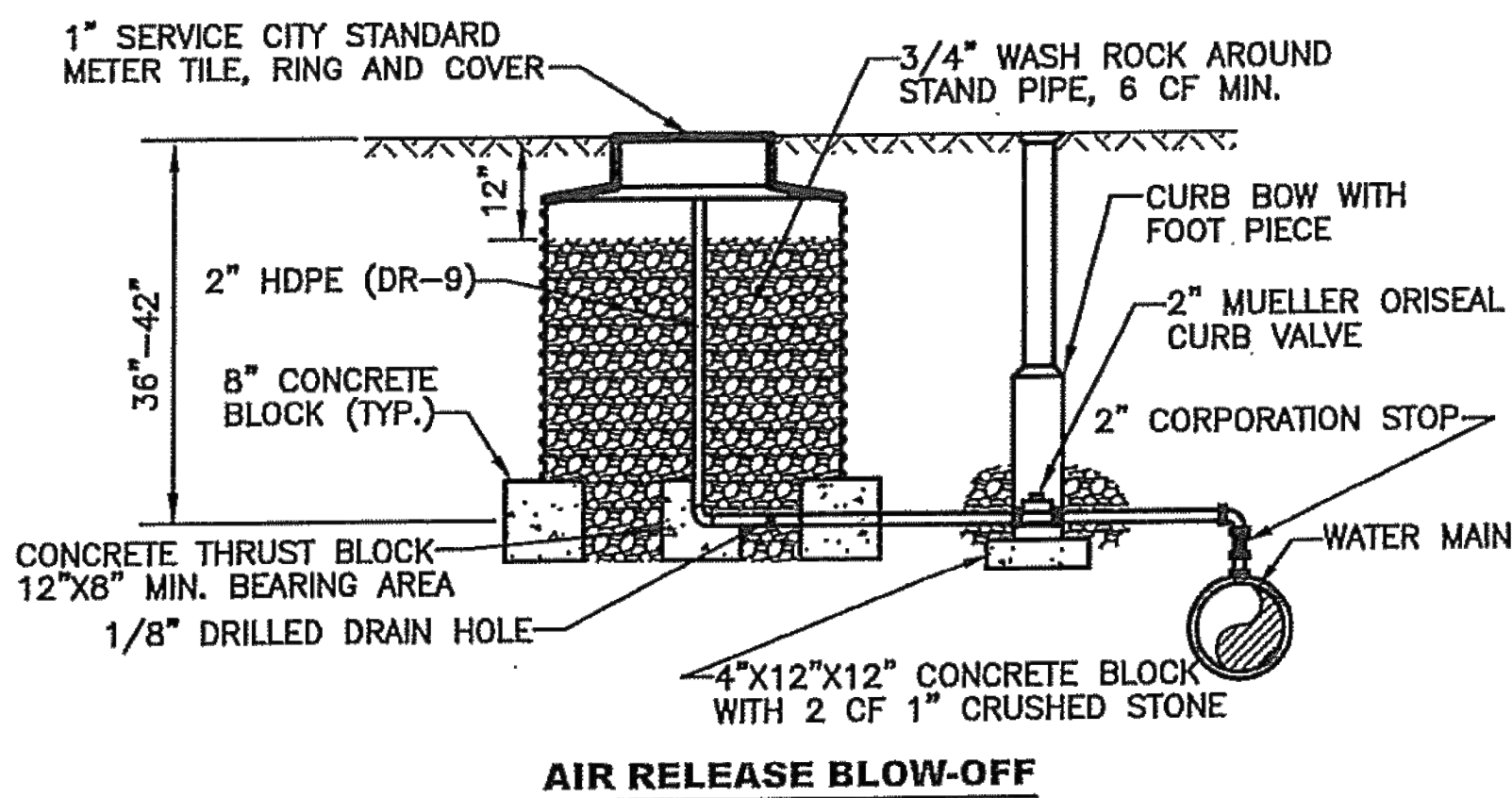
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



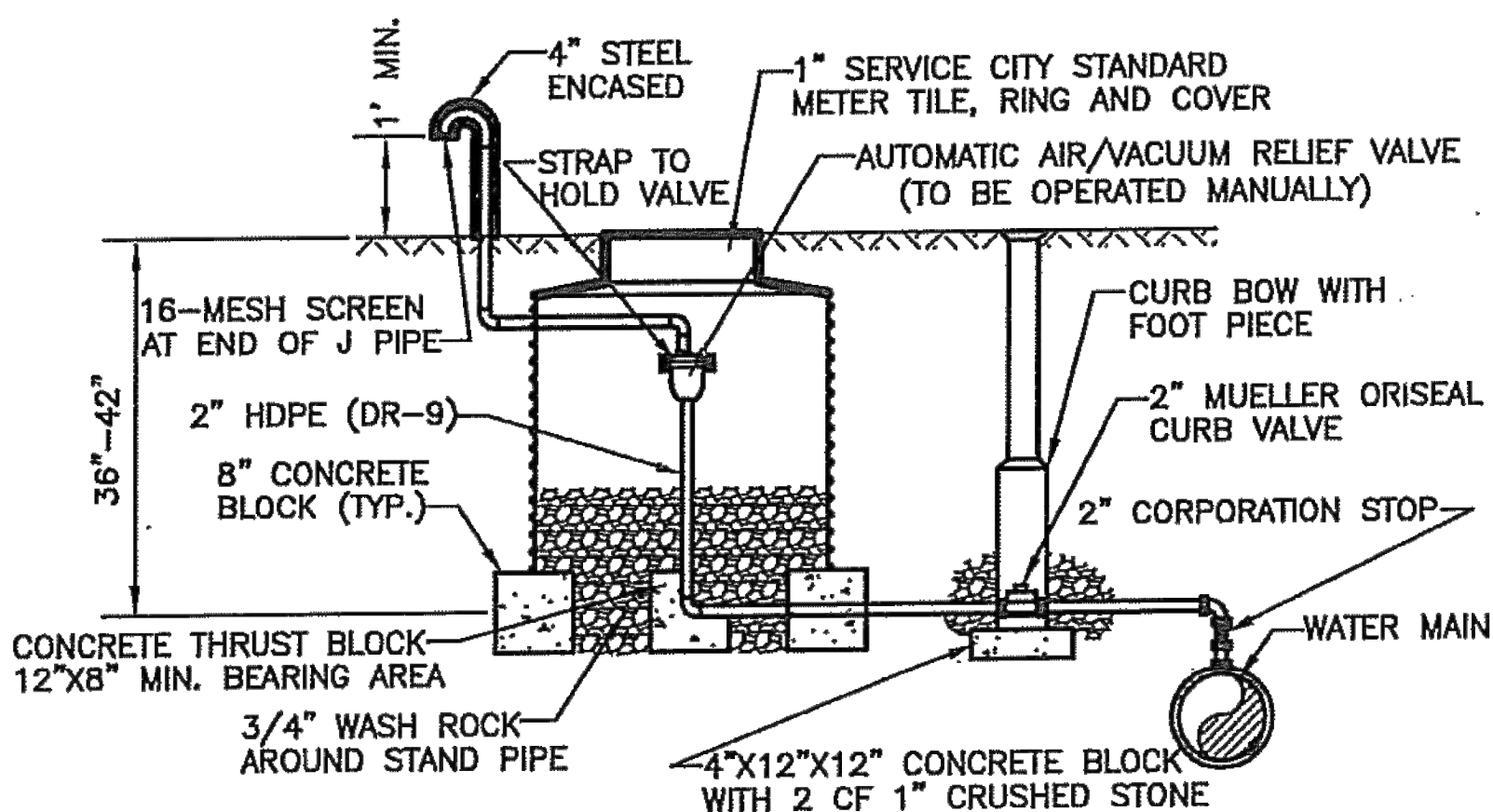
ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 WATERLINE PLAN AND PROFILE

DATE: FEBRUARY 2026
 SHEET: 11 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



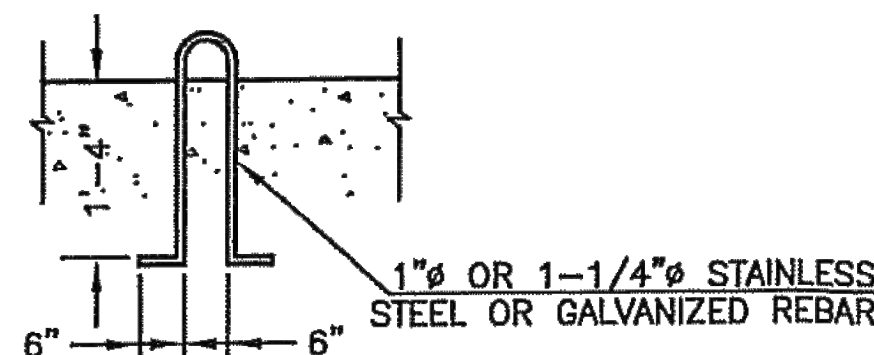
AIR RELEASE BLOW-OFF



AUTOMATIC AIR/VACUUM RELEASE (OPERATED MANUALLY)

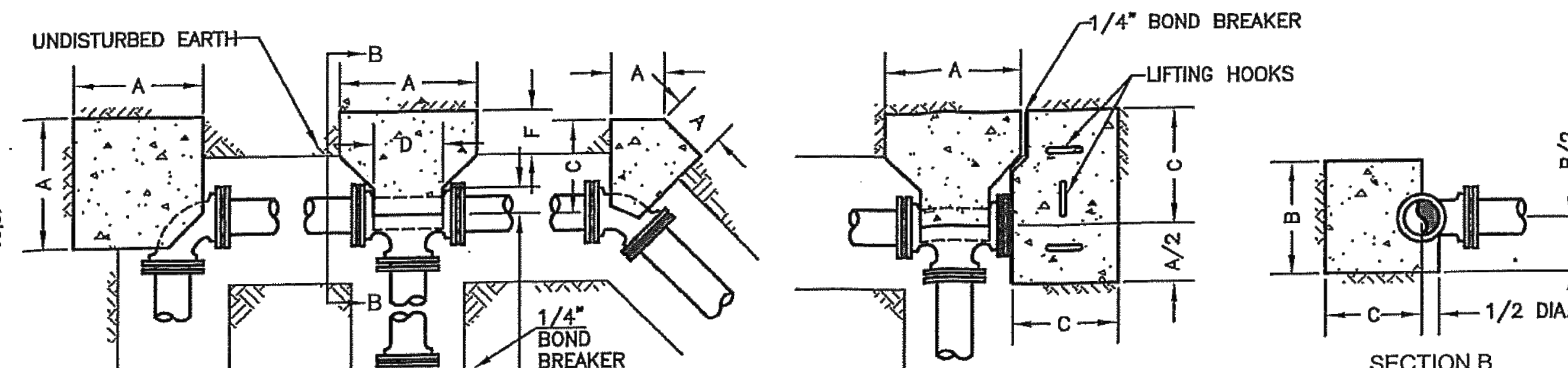
PIPE DIA.	45° VERTICAL BEND						22.5° VERTICAL BEND						11.25° VERTICAL BEND					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
4"	30	30	30	18	12	12	21	21	12	12	12	12	18	18	24	12	12	12
6"	36	36	36	21	24	12	21	21	18	15	18	12	21	21	27	15	18	12
8"	42	42	42	27	36	18	36	36	42	18	24	18	24	24	30	18	24	18
10"	48	48	48	36	39	27	42	42	48	24	30	27	30	30	36	24	30	27
12"	54	54	54	42	48	33	48	48	54	27	36	30	33	33	39	27	36	30

ALL DIMENSIONS ARE IN INCHES.



LIFTING HOOK DETAIL

ONE (1) 1"Ø HOOK FOR 16" AND SMALLER PIPING
 TWO (2) 1-1/4"Ø HOOKS FOR 18" AND 24" PIPING
 FOUR (4) 1-1/4"Ø HOOKS FOR 30" AND LARGER PIPING

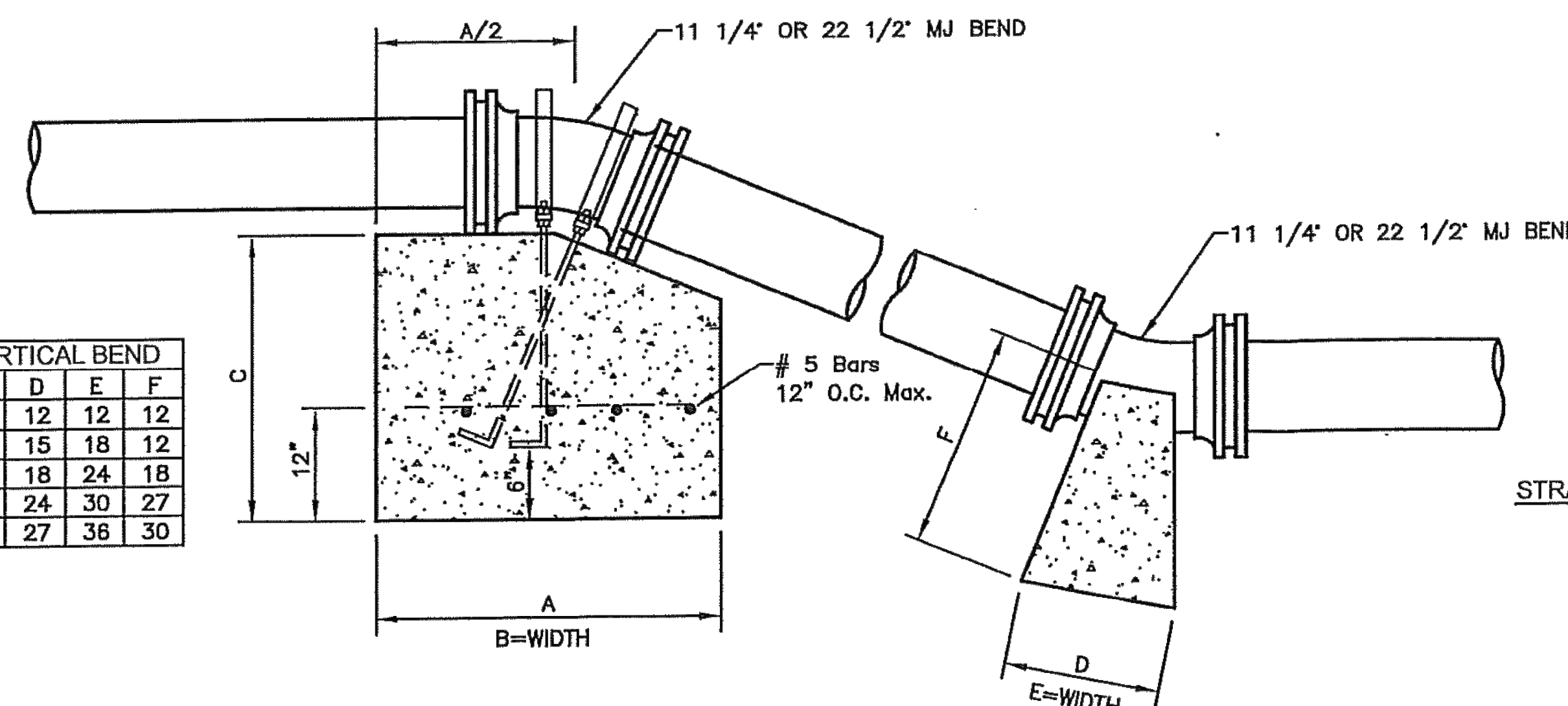


PLAN

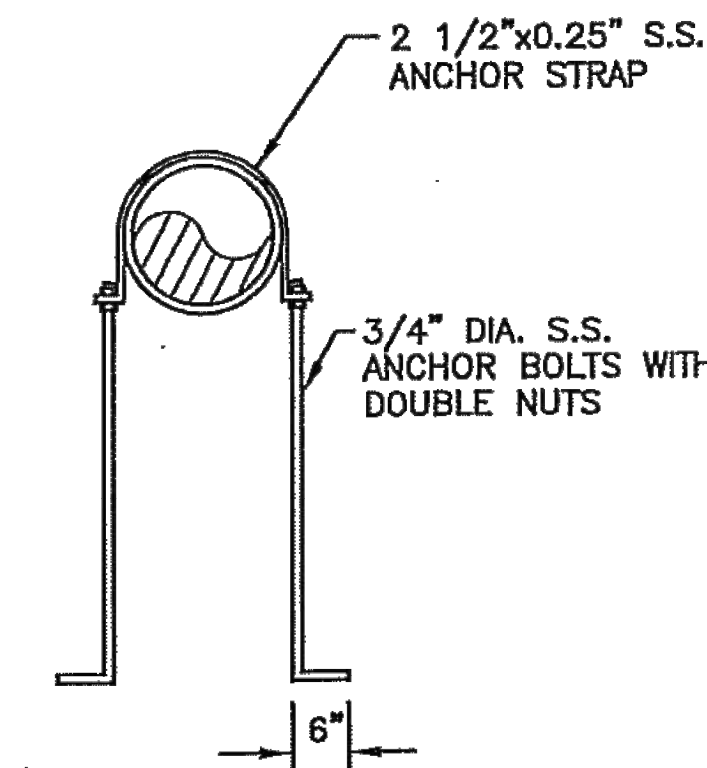
PIPE DIA.	TEES						PLUGS			90° BEND			45° BEND			22.5° BEND			11.25° BEND		
	A	B	C	D	E	F	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
4"	13	22	9	13	—	—	13	22	9	18	12	9	9	12	12	6	12	12	—	—	—
6"	24	30	16	16	6	6	24	30	12	24	18	16	10	24	12	7	18	12	—	—	—
8"	34	32	21	18	7	6	34	32	18	30	26	21	13	36	18	9	24	18	9	24	18
10"	40	42	23	22	8	6	40	42	24	35	34	24	18	38	27	12	30	27	12	30	27
12"	48	52	27	24	9	6	48	52	24	42	42	30	21	48	33	14	36	30	10	42	24
16"	54	54	32	30	12	6	54	54	24	50	42	36	24	48	40	15	42	34	10	42	24
18"	60	60	34	32	12	6	60	60	24	54	48	38	27	54	44	17	46	37	10	42	24
20"	72	66	36	36	24	10	72	66	24	72	66	54	36	66	48	18	66	42	15	48	30
24"	96	72	36	44	19	8	96	72	24	82	60	60	44	60	72	22	60	54	15	48	36
30"	108	96	60	50	20	12	108	96	24	108	72	84	54	72	84	28	72	64	17	60	36
36"	108	108	60	56	23	12	108	108	24	108	108	80	68	84	96	34	84	69	20	72	36

ALL DIMENSIONS ARE IN INCHES.
 BLOCKING DESIGNED FOR 150 PSI WORKING PRESSURE AND 1500 PSF SOIL BEARING.
 BLOCKING FOR REDUCED BRANCH TEES SHALL BE BASED ON BRANCH DIAMETER.
 MAINTAIN MINIMUM "F" DIMENSION.

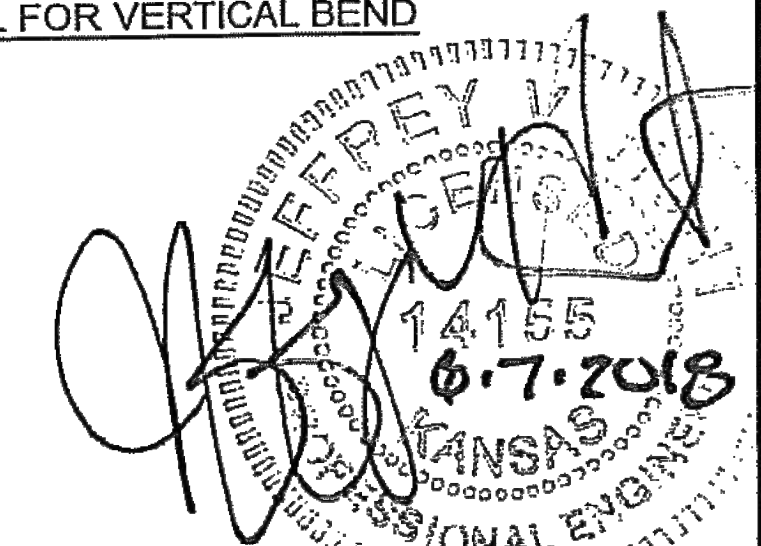
CONCRETE BLOCKING DETAILS



11 1/4, 22 1/2, OR 45° VERTICAL BEND BLOCKING DETAIL



STRAP DETAIL FOR VERTICAL BEND



NO.	DATE	REVISION	BY	APP'D
1	6/5/18	Corrected table values	DHS	PB

EDITED BY: DHS
 APP'D BY: PB



SHAWNEE COUNTY, KANSAS
PUBLIC WORKS DEPARTMENT
 1515 NW SALINE
 TOPEKA, KS 66618
 (785) 233-7702

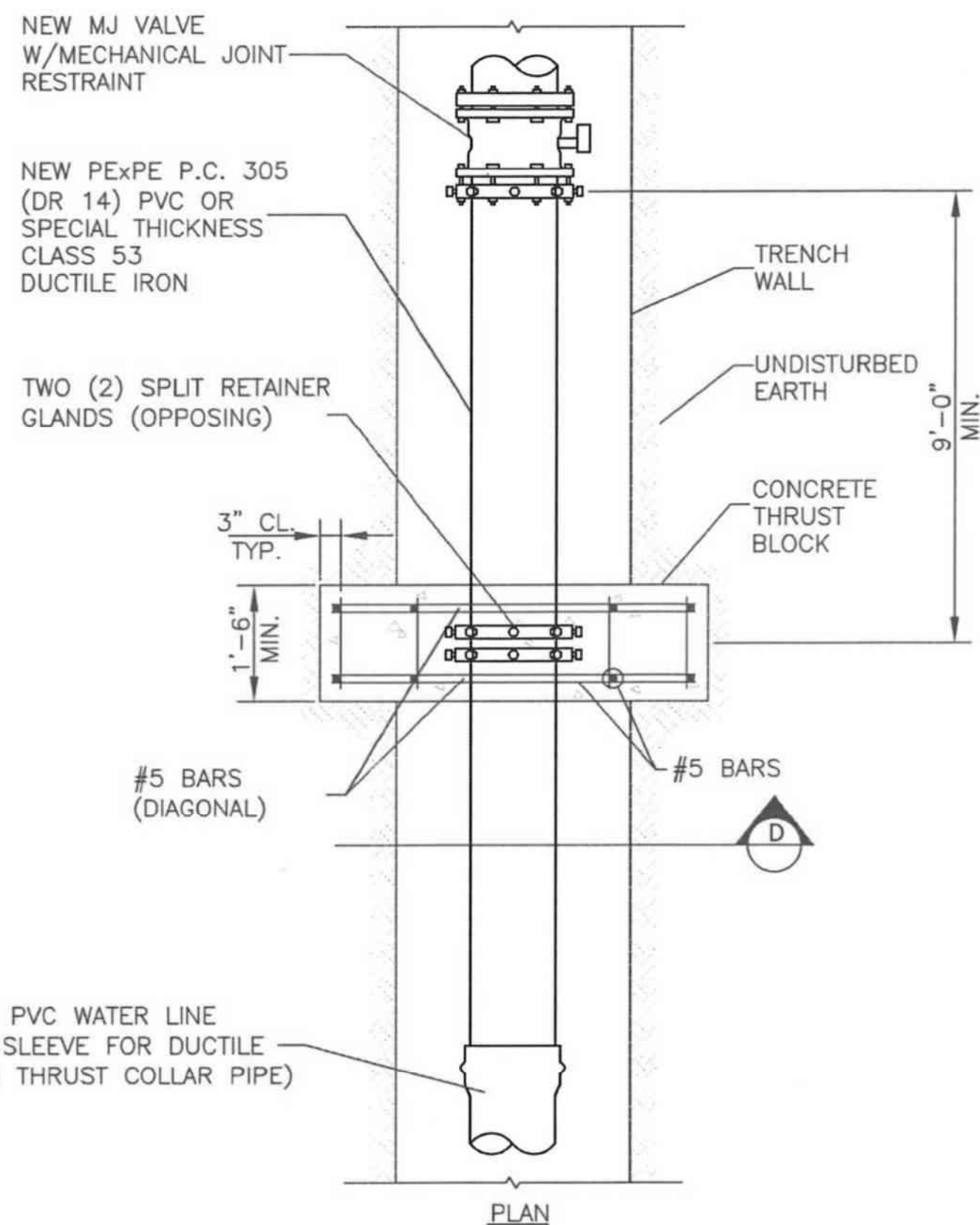


620 SE MADISON St. • 2nd Floor • TOPEKA, KS 66607
 Phone: (785) 368-2842 • Fax: (785) 368-2841

STANDARD DETAILS

WATER DETAILS I
 (DT-23)

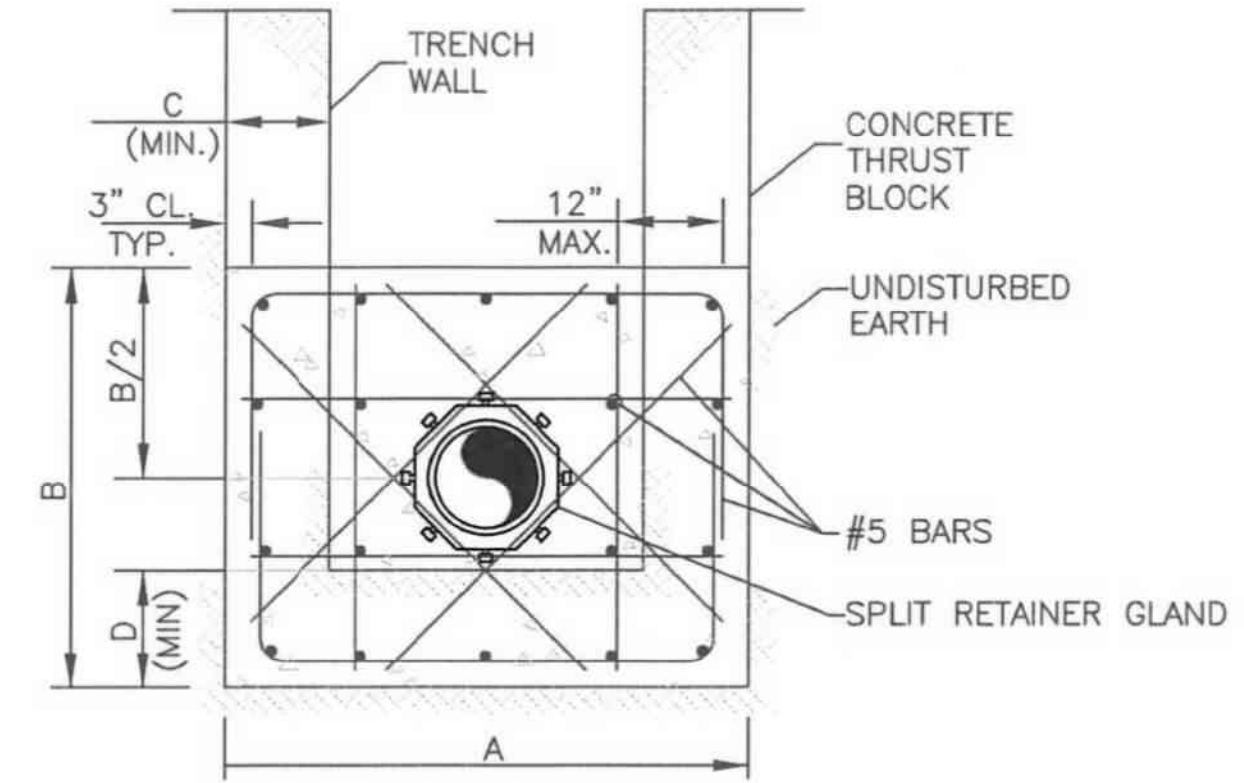
DATE: FEBRUARY 2026
 SHEET: 12 OF 36
 PROJ.: 841201.02
 22114-000



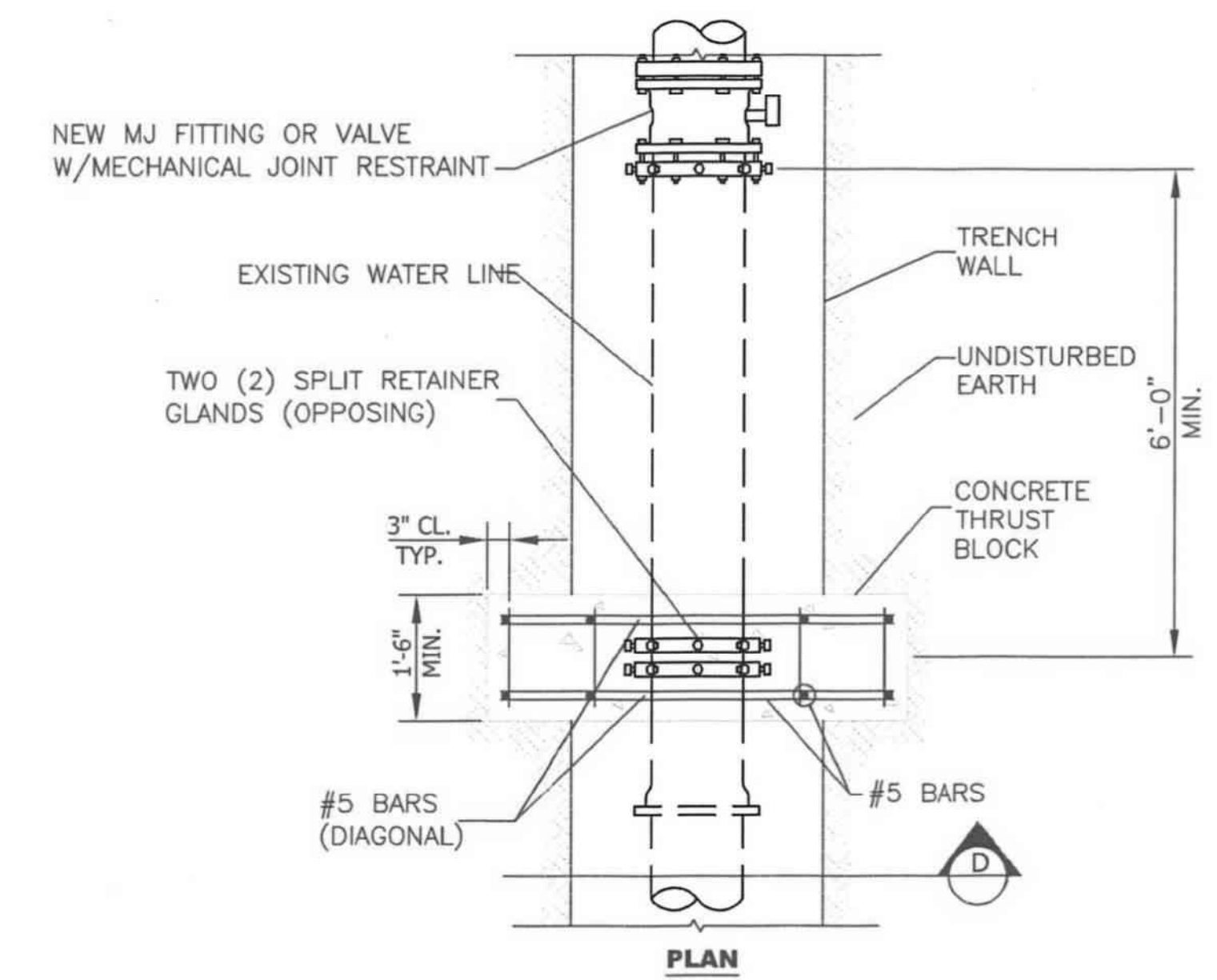
12" AND SMALLER CONCRETE THRUST COLLAR PIPE DETAIL
NO SCALE

PIPE DIA.	THRUST COLLAR			
	A	B	C	D
4"	36	24	4	8
6"	46	30	8	10
8"	52	36	12	12
10"	64	42	15	14
12"	72	48	18	16

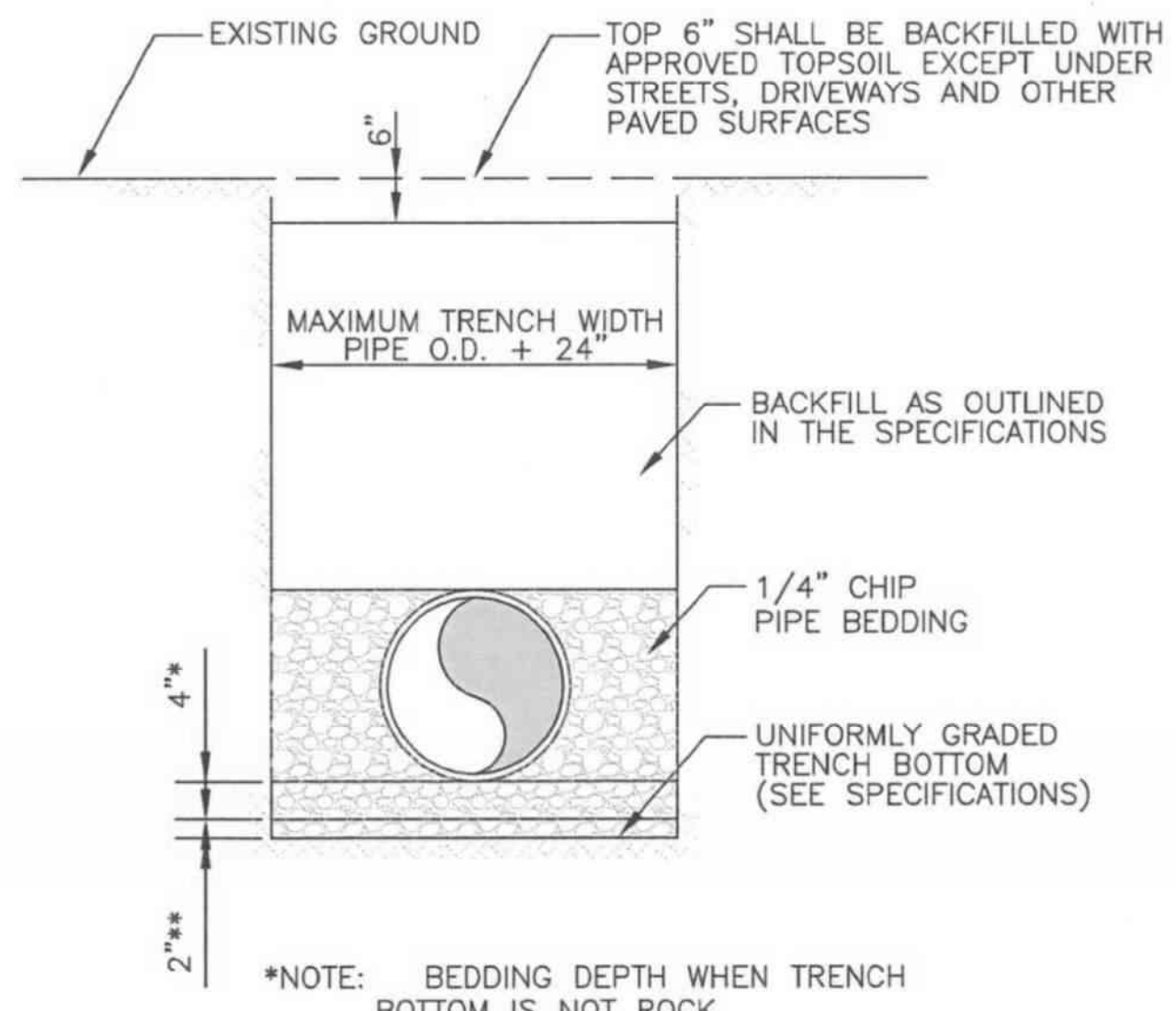
ALL DIMENSIONS ARE IN INCHES.



SECTION D NOTE: BARS SHOWN AT MAXIMUM SPACING. MINIMUM NUMBER AND SIZE OF BARS REQUIRED AS SHOWN.

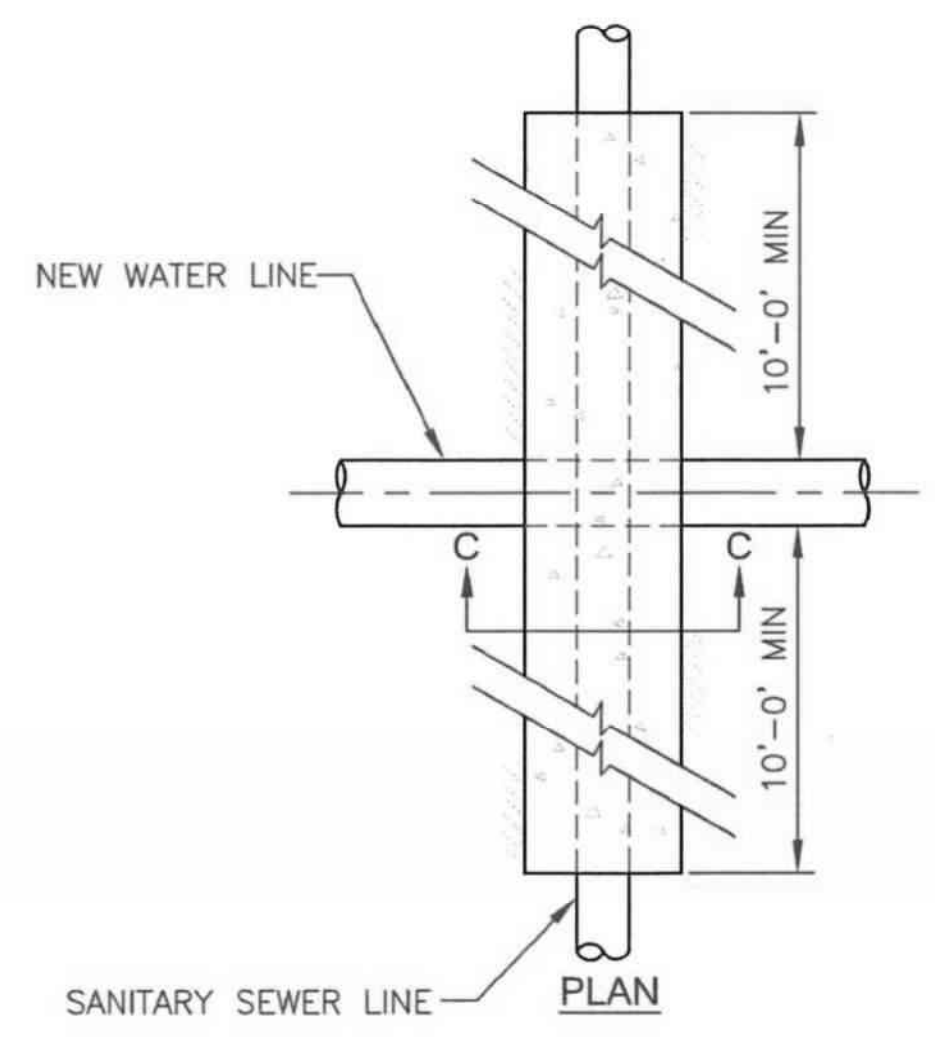


12" AND SMALLER CONCRETE THRUST COLLAR ON EXISTING DETAIL
NO SCALE

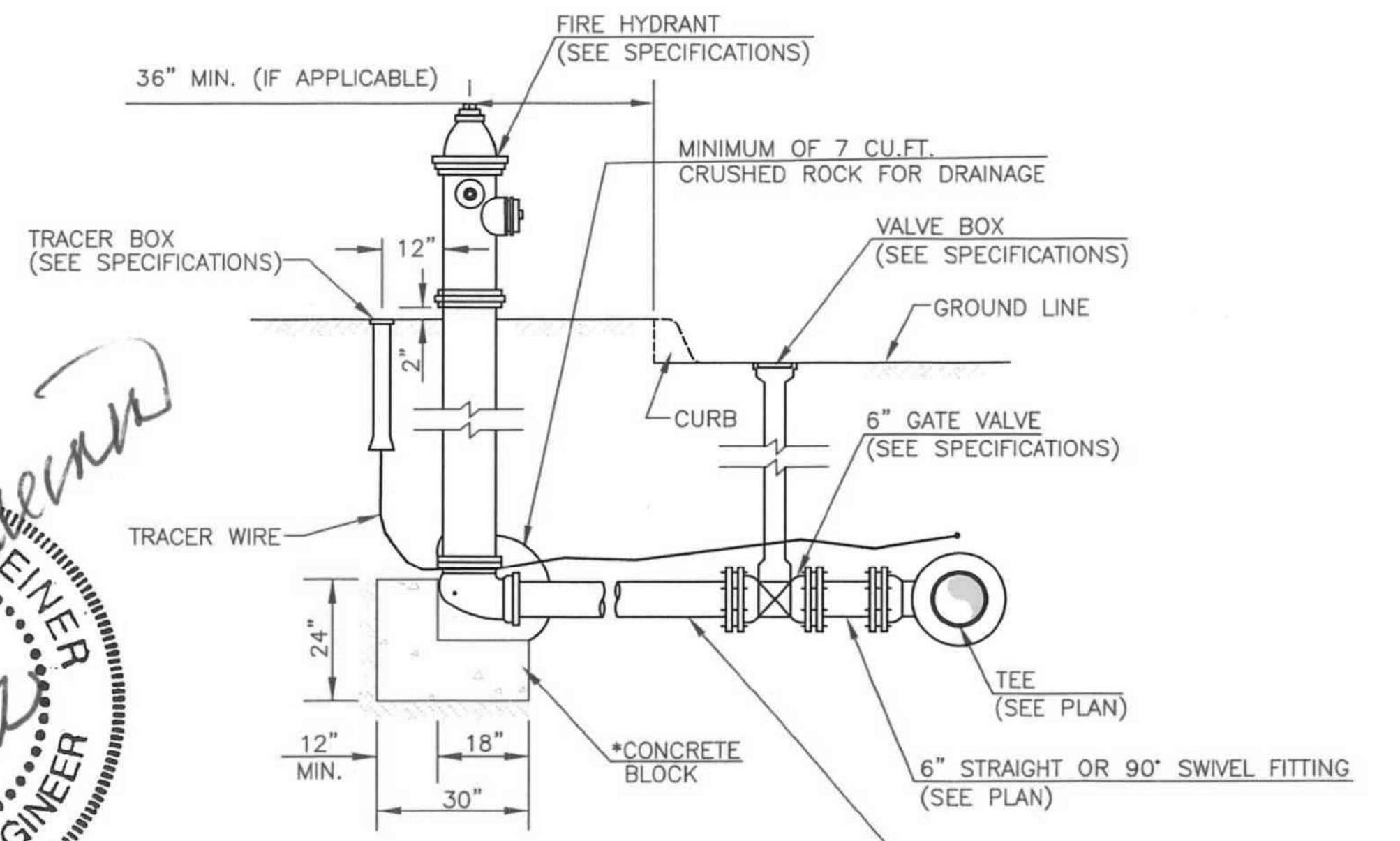
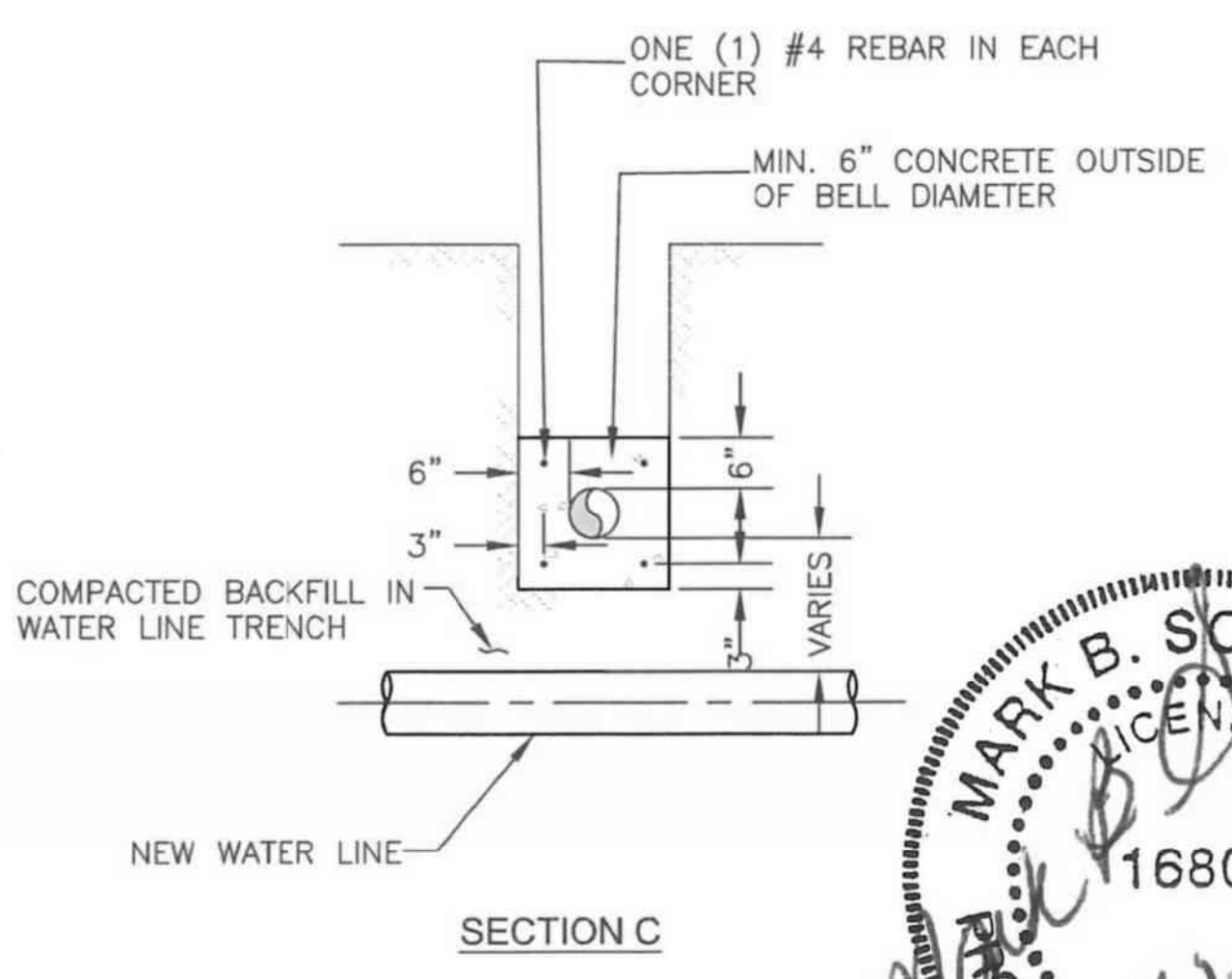


TYPICAL TRENCH & PIPE BEDDING DETAIL
NO SCALE

*NOTE: BEDDING DEPTH WHEN TRENCH BOTTOM IS NOT ROCK
**NOTE: ADDITIONAL BEDDING DEPTH WHEN TRENCH BOTTOM IS ROCK



CONCRETE ENCASUREMENT SANITARY SEWER LINE CROSSING DETAIL
NO SCALE



FIRE HYDRANT SETTING
NO SCALE

* NOTE: EACH ANCHOR BLOCK SHALL HAVE A MINIMUM BEARING AREA OF 5 SF

NO.	DATE	REVISION	BY:	APP'D
2	7/12/22	Updated Standard(odd thrust collar detail)	MDB	MBS
1	6/9/17	Updated Standard	DHS	PB

EDITED BY: MDB
APP'D BY: MBS



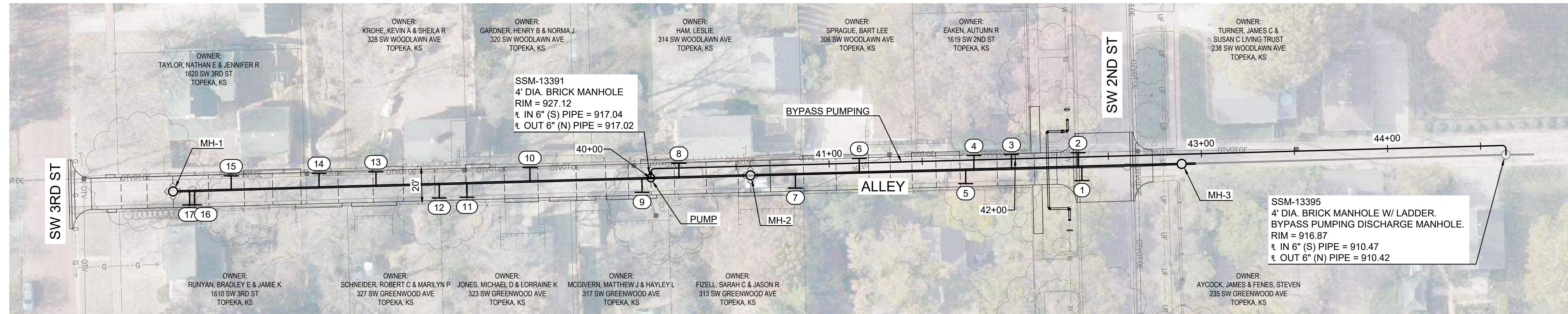
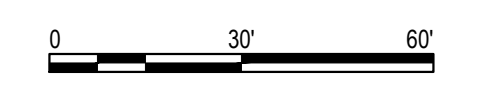
SHAWNEE COUNTY, KANSAS
PUBLIC WORKS DEPARTMENT
1515 NW SALINE
TOPEKA, KS 66618
(785) 233-7702

TOPEKA
Public Works
ENGINEERING
620 SE MADISON St. • 2nd Floor • TOPEKA, KS 66607
Phone: (785) 368-3842 • Fax: (785) 368-3881

STANDARD DETAILS

WATER DETAILS 2
(DT-024)

DATE: FEBRUARY 2026
SHEET: 13 OF 36
PROJ.: 841201.02
221114-000



NOTES:

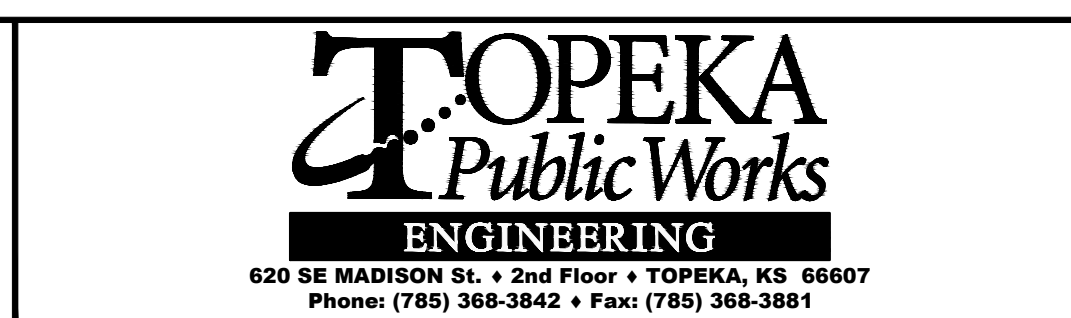
1. THE CONTRACTOR SHALL MAINTAIN BYPASS PUMPING ACTIVITIES WITHIN THE RIGHT-OF-WAY.
2. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL BARRICADES, AS NECESSARY, TO PROTECT THE BYPASS PUMPING SETUP.
3. THE CONTRACTOR SHALL COORDINATE BYPASS PUMPING ACTIVITIES WITH THE SANITARY SEWER PHASING, ROAD PAVING, STORM IMPROVEMENTS, AND TRAFFIC CONTROL.
4. THE CONTRACTOR SHALL TEMPORARILY RECONNECT THE SEWER SERVICES SOUTH OF MANHOLE 2 EACH NIGHT AFTER MANHOLE 13391 IS REMOVED FROM SERVICE.

BYPASS PUMPING:

1. THE CONTRACTOR SHALL PROVIDE A BYPASS PUMPING SETUP WITH A FIRM CAPACITY OF 250 GPM. THE CONTRACTOR SHALL HAVE ONE (1) BACKUP PUMP WITH A FIRM CAPACITY OF 250 GPM ON SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL UTILIZE THE BYPASS PUMPING ALIGNMENT AS SHOWN WILL BE ABOVE GRADE.
3. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF BYPASS PUMPING WITH THE CITY.
4. THE CONTRACTOR SHALL DETERMINE THE LINE SIZE NECESSARY FOR THE BYPASS PUMPING SETUP.
5. THE CONTRACTOR SHALL PROVIDE A BYPASS PUMPING PLAN TO THE CITY FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK.
6. THE BYPASS PUMPING PLAN SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 33 01 30.

NO.	DATE:	REVISION

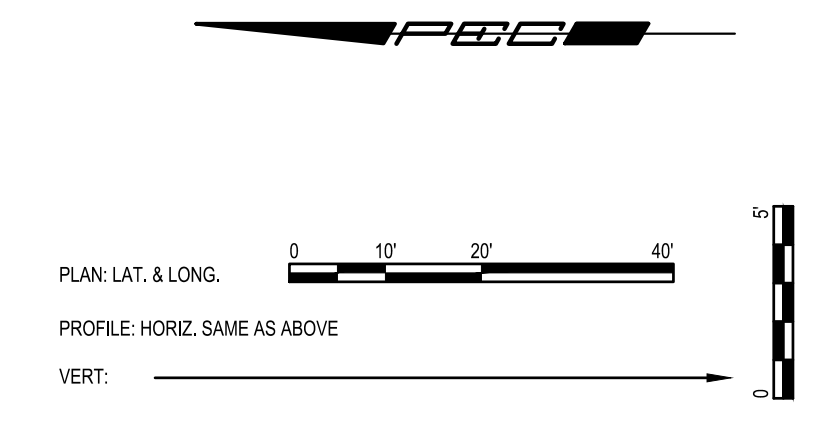
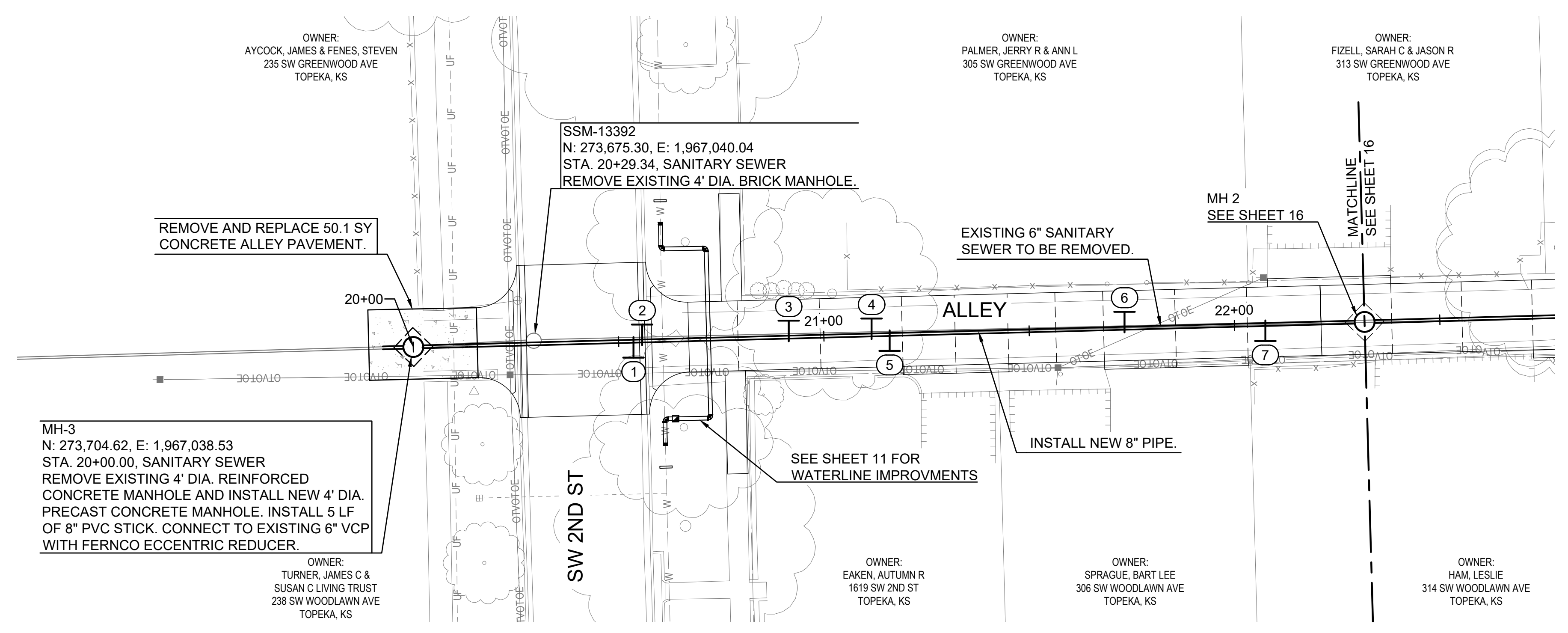
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 SANITARY SEWER BYPASS PUMPING PLAN

DATE: FEBRUARY 2026
 SHEET: 14 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



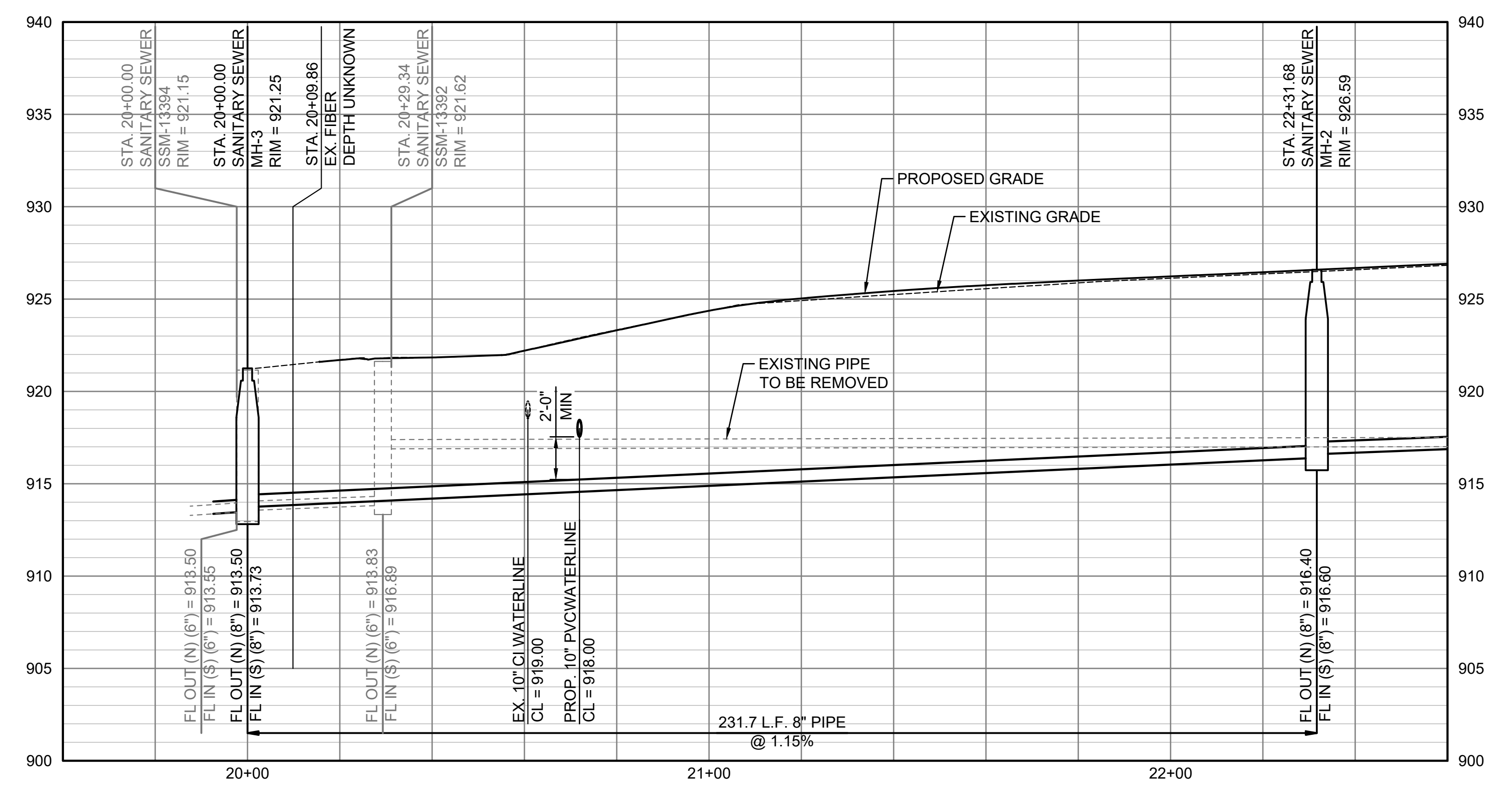
LEGEND

DENOTES SANITARY SEWER SERVICE. SEE SANITARY SEWER SERVICE SCHEDULE FOR APPROXIMATE SERVICE COORDINATES.

NOTES:

1. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN SERVICE THROUGHOUT THE DURATION OF THE PROJECT. IN THE EVENT THAT A CUSTOMER WILL BE OUT OF SERVICE, THE MAXIMUM AMOUNT OF TIME WITHOUT SERVICE SHALL BE 12 HOURS DURING THE DAY FOR ANY PROPERTY SERVED BY THE SEWER. OVERNIGHT OUTAGES SHALL NOT BE PERMITTED.
2. SEE SHEET 14 FOR BYPASS PUMPING DETAILS.
3. THE CONTRACTOR SHALL PERFORM PRE-TV INSPECTIONS AND IS RESPONSIBLE FOR LOCATING AND RECONNECTING ALL ACTIVE SERVICES IN THE FIELD. THE CONTRACTOR IS ALSO RESPONSIBLE FOR VERIFYING WHETHER OR NOT THE SERVICES ARE ACTIVE. ONLY ACTIVE SERVICES SHALL BE REOPENED FOLLOWING REHABILITATION/ REPLACEMENT ACTIVITIES. THE CONTRACTOR SHALL NOTE ALL SERVICE CONNECTIONS ON THE RECORD DRAWINGS.
4. SEE SHEETS 4 - 10 FOR ALLEY IMPROVEMENT DETAILS.

SANITARY SEWER



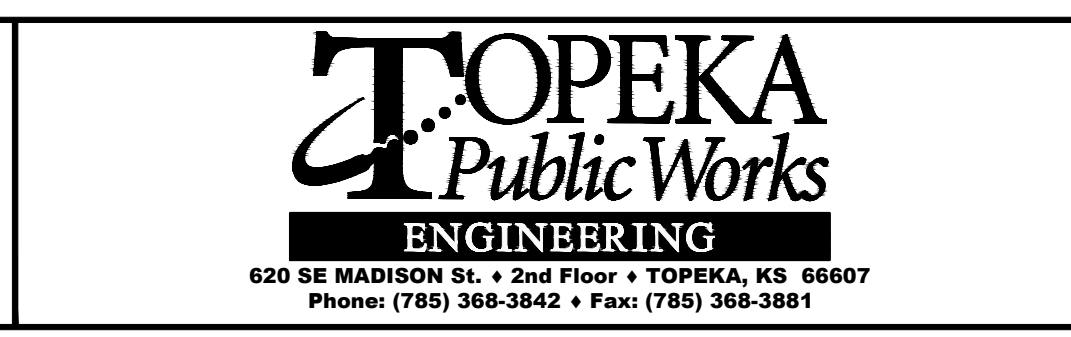
SANITARY SEWER SERVICE SCHEDULE					
ID	ALIGNMENT	NORTHING	EASTING	STATION	FLOWLINE ELEVATION
1	SANITARY SEWER	273,651.00	1,967,039.95	20+53.6	914.01
2	SANITARY SEWER	273,648.90	1,967,040.00	20+55.7	914.03
3	SANITARY SEWER	273,613.21	1,967,040.94	20+91.4	914.44
4	SANITARY SEWER	273,593.04	1,967,041.48	21+11.6	914.60
5	SANITARY SEWER	273,588.64	1,967,041.59	21+16.0	914.65
6	SANITARY SEWER	273,531.46	1,967,043.10	21+73.2	915.31
7	SANITARY SEWER	273,497.17	1,967,044.00	22+07.5	915.71

LEGEND

REINFORCED CONCRETE ALLEY PAVEMENT

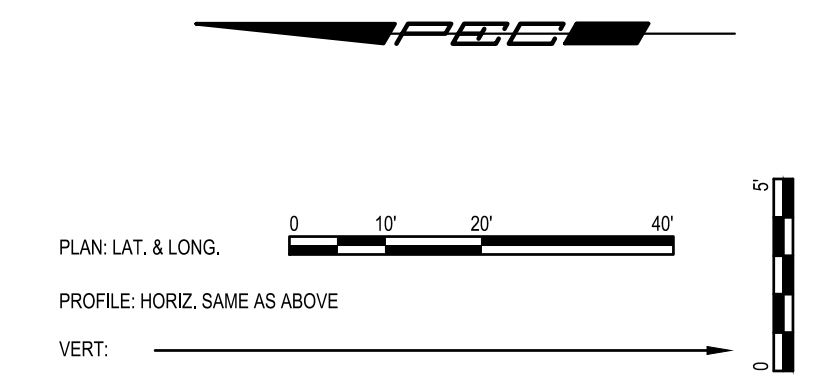
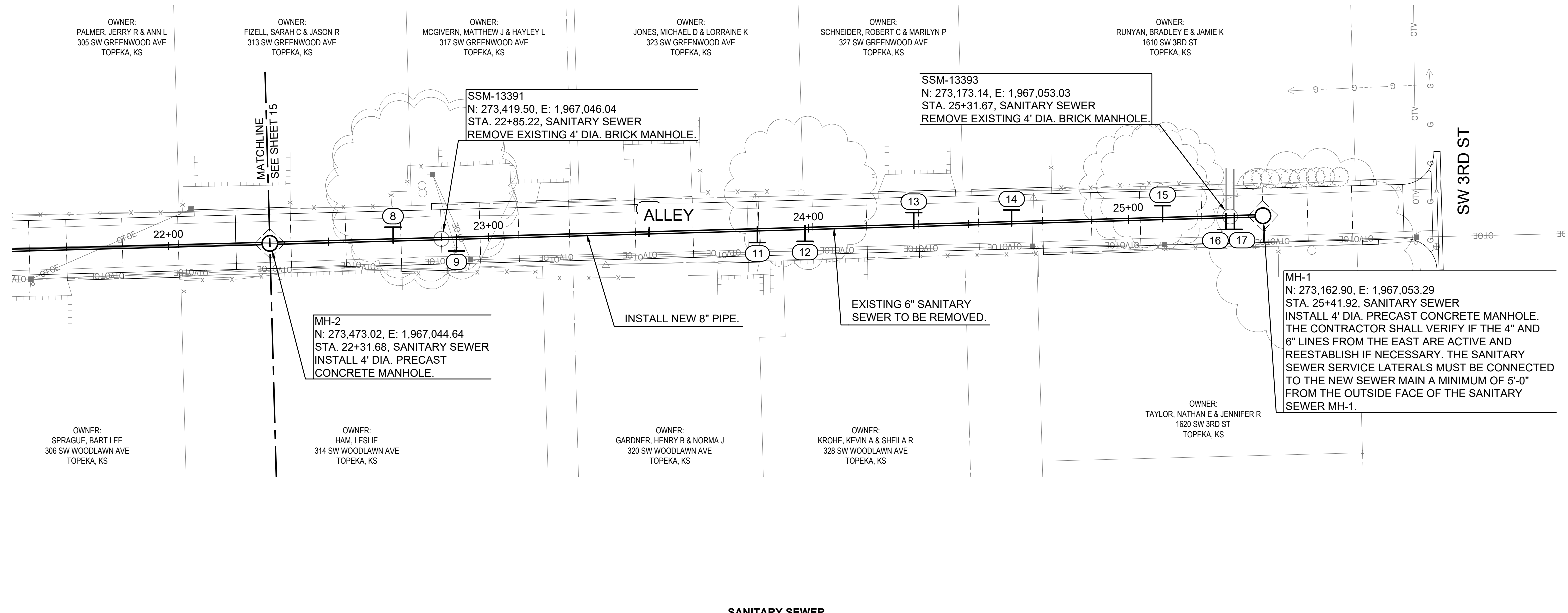
NO.	DATE:	REVISION

DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 SANITARY PLAN AND PROFILE 1
 DATE: FEBRUARY 2026
 SHEET: 15 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000

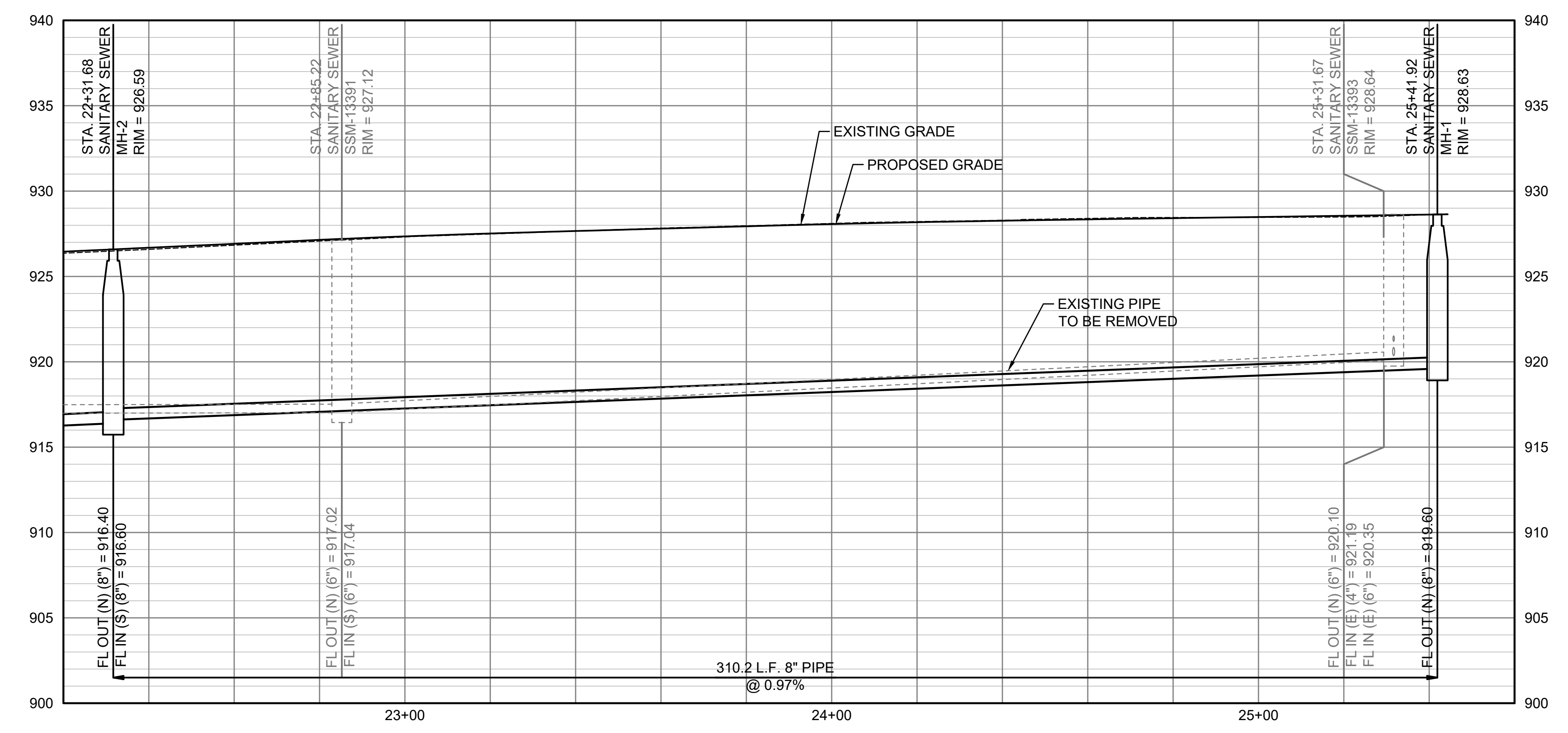


LEGEND

↓ DENOTES SANITARY SEWER SERVICE. SEE SANITARY SEWER SERVICE SCHEDULE FOR APPROXIMATE SERVICE COORDINATES.

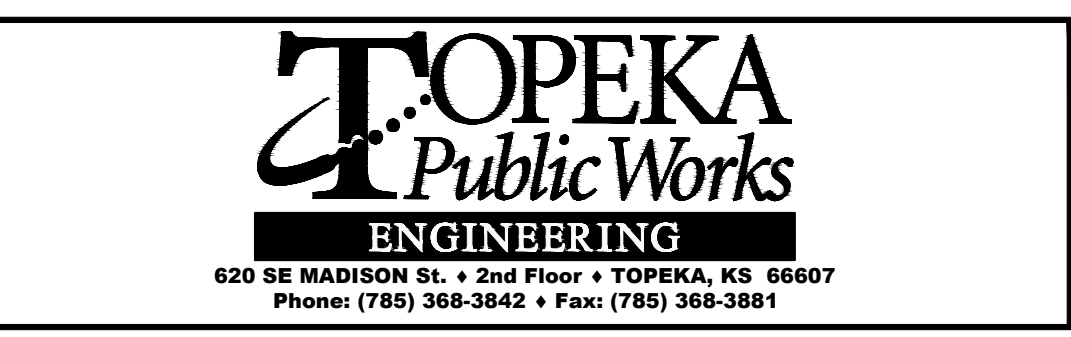
- NOTES:**
1. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN SERVICE THROUGHOUT THE DURATION OF THE PROJECT. IN THE EVENT THAT A CUSTOMER WILL BE OUT OF SERVICE, THE MAXIMUM AMOUNT OF TIME WITHOUT SERVICE SHALL BE 12 HOURS DURING THE DAY FOR ANY PROPERTY SERVED BY THE SEWER. OVERNIGHT OUTAGES SHALL NOT BE PERMITTED.
 2. SEE SHEET 14 FOR BYPASS PUMPING DETAILS.
 3. THE CONTRACTOR SHALL PERFORM PRE-TV INSPECTIONS AND IS RESPONSIBLE FOR LOCATING AND RECONNECTING ALL ACTIVE SERVICES IN THE FIELD. THE CONTRACTOR IS ALSO RESPONSIBLE FOR VERIFYING WHETHER OR NOT THE SERVICES ARE ACTIVE. ONLY ACTIVE SERVICES SHALL BE REOPENED FOLLOWING REHABILITATION/REPLACEMENT ACTIVITIES. THE CONTRACTOR SHALL NOTE ALL SERVICE CONNECTIONS ON THE RECORD DRAWINGS.
 4. SEE SHEETS 4 - 10 FOR ALLEY IMPROVEMENT DETAILS.
 5. IF IT IS DETERMINED SERVICES FOR CONNECTIONS 17 AND/OR 18 ARE INACTIVE, THE CONTRACTOR SHALL ABANDON THE SERVICE CONNECTIONS IN PLACE. THIS WILL BE SUBSIDIARY TO THE PROJECT.

SANITARY SEWER



SANITARY SEWER SERVICE SCHEDULE					
ID	ALIGNMENT	NORTHING	EASTING	STATION	FLOWLINE ELEVATION
8	SANITARY SEWER	273,434.59	1,967,045.71	22+70.1	916.43
9	SANITARY SEWER	273,414.80	1,967,046.26	22+89.9	916.65
10	SANITARY SEWER	273,354.57	1,967,047.94	23+50.2	917.79
11	SANITARY SEWER	273,320.78	1,967,048.88	23+84.0	918.12
12	SANITARY SEWER	273,305.88	1,967,049.30	23+98.9	918.27
13	SANITARY SEWER	273,271.90	1,967,050.25	24+32.9	918.61
14	SANITARY SEWER	273,241.31	1,967,051.10	24+63.5	918.92
15	SANITARY SEWER	273,194.13	1,967,052.41	25+10.7	919.39
16	SANITARY SEWER	273,174.46	1,967,052.96	25+30.4	920.35
17	SANITARY SEWER	273,171.83	1,967,053.04	25+33.0	921.19

DRAWN BY:	CTS
DESIGNED BY:	FSA
APPROVED BY:	FSA
SURVEYED BY:	PEC
TOPEKA PM:	RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE

ROADWAY IMPROVEMENT PROJECT NO. 841201.02
WATERLINE PROJECT NO. 281250.18
SANITARY SEWER PROJECT NO. 291128.10

ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE

SANITARY PLAN AND PROFILE 2

DATE: FEBRUARY 2026

SHEET: 16 OF 36

841201.02/281250.18/ PROJ.: 291128.10

PEC#: 221114-000

PAVEMENT PLACEMENT SCHEDULE

SCHEDULE TO BE USED UNLESS OTHERWISE NOTED ON PLANS.

ORIGINAL SURFACE	NEW PAVEMENT
CONCRETE	8" REINFORCED CONCRETE 4,000psi
BRICK OVER CONCRETE	7" REINFORCED CONC.BASE 4,000psi PLUS ONE-COURSE RELAID BRICK.
ASPHALT	MATCH EXISTING PAVEMENT THICKNESS WITH A MINIMUM OF 6" HOT-MIX ASPHALTIC CONCRETE.
ASPHALT OVER CONCRETE	7" REINFORCED CONCRETE BASE 4000 psi PLUS 2" HOT MIX ASPHALTIC CONCRETE. 7" REINFORCED CONCRETE BASE SHALL BE JOINED TO ADJACENT PAVEMENT. SEE "FULL PANEL REPAIR & UTILITY CUTS FOR CONCRETE PAVEMENT" DETAIL AS SHOWN ON MISCELLANEOUS DETAILS I (DT-017). THE WEARING SURFACE WILL CONFORM TO CITY/COUNTY STANDARD SPECIFICATIONS.
BRICK OVER BRICK/SUBGRADE	7" HOT-MIX ASPHALTIC CONCRETE PLUS ONE-COURSE RE-LAID BRICK.

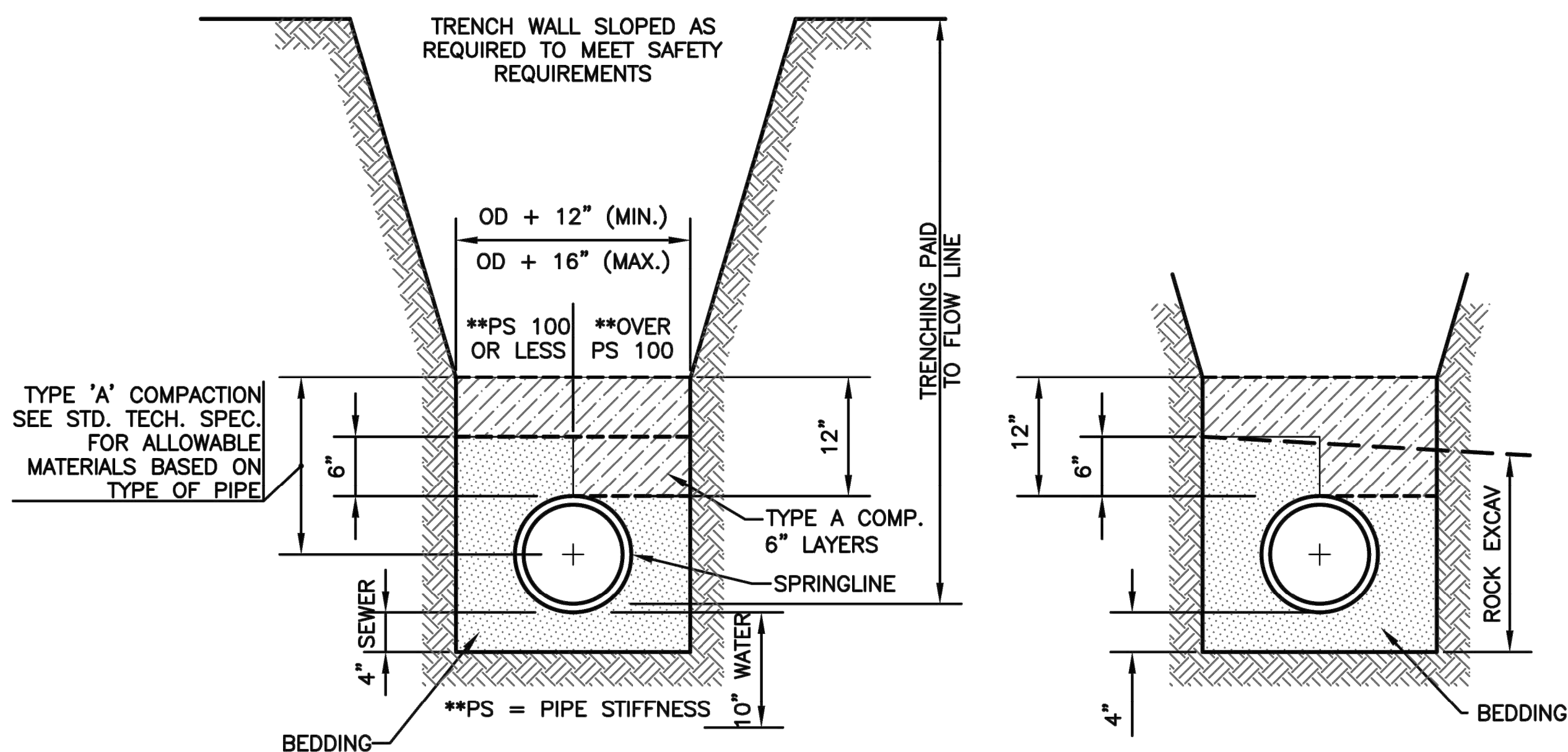
PAVEMENT SHALL BE SAWED AND REMOVED WITHOUT DAMAGE TO ADJACENT PAVEMENT.

* SECOND PAVEMENT CUT TO BE MADE AND PAVEMENT REMOVED AFTER TRENCH IS PROPERLY BACKFILLED.

** CONCRETE PAVEMENT SHALL BE JOINED TO ADJACENT CONCRETE PAVEMENT AS PER "FULL PANEL REPAIR AND UTILITY CUTS FOR CONCRETE PAVEMENT" AS SHOWN ON MISCELLANEOUS DETAILS I (DT-017).

NOTES:

1. THE TRENCH SHALL BE EXCAVATED TO 4" BELOW BOTTOM OF THE PIPE BARREL & BACKFILLED AS SHOWN ABOVE WITH AN APPROVED BEDDING MATERIAL.
2. WHEN THE SEWER IS TO BE INSTALLED IN ROCK, THE TRENCH IS TO BE EXCAVATED TO A MINIMUM DEPTH OF 4" BELOW THE BOTTOM OF THE PIPE AND BACKFILLED IN 6" COMPACTED LAYERS WITH AN APPROVED BEDDING MATERIAL AS SHOWN. THE ROCK EXCAVATED TO BE PAID AS A SEPARATE BID ITEM. THE EMBEDMENT, IN ALL CASES, TO BE INCLUDED IN THE PRICE BID PER TRENCH, EXCAVATION, AND BACKFILL.



TRENCHING DETAILS

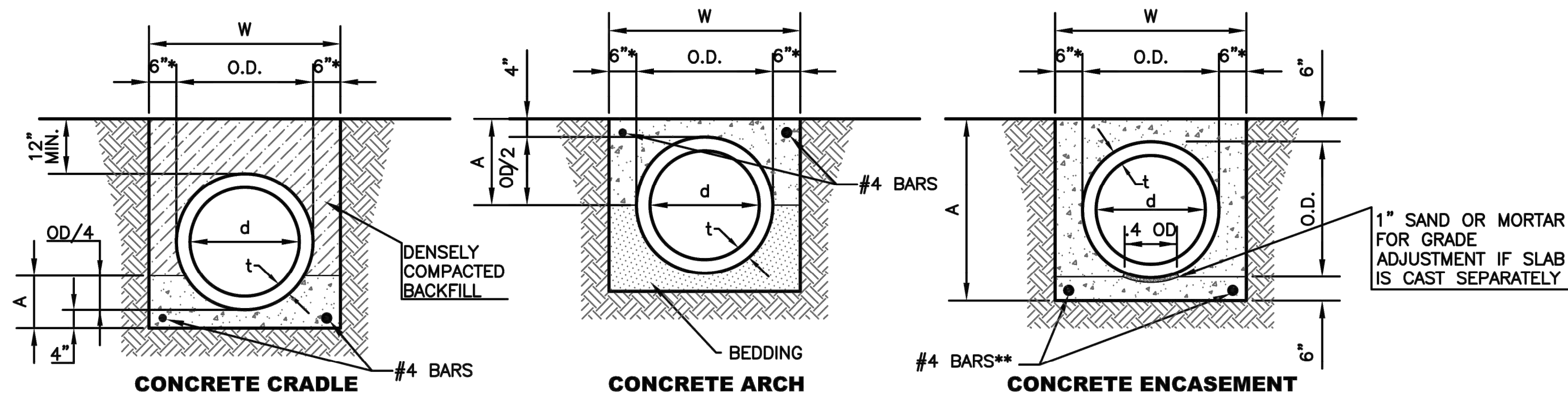
STANDARDS FOR SETTING LINE AND GRADE FOR SEWER & WATER CONSTRUCTION:

1. STAKES, SPIKES, SHINERS, OR CROSSES SET BY TRANSIT AT THE SURFACE ON AN OFFSET FROM THE SEWER CENTER LINE.
2. STAKES ARE TO BE SET IN THE TRENCH BOTTOM ON THE SEWER LINE AS THE ROUGH GRADE FOR SEWER IS COMPLETED.
3. ELEVATIONS GIVEN FOR THE FINISHED TRENCH GRADE AND SEWER INVERT, WHILE SEWER LAYING PROGRESSES.

INSTALLATION OF SEWER UNDER EXISTING PAVEMENT

STANDARD METHODS FOR TRANSFERRING LINE AND GRADE TO SEWER TRENCH BOTTOM:

1. ELECTRONIC LASER EQUIPMENT—STAKING SHALL BE AT 25' INTERVALS FOR THE FIRST 100' AND EVERY 100' THEREAFTER UNTIL THE NEXT MANHOLE IS REACHED.
2. BATTER BOARDS AND BATTER BOARD SUPPORTS—STAKING SHALL BE EVERY 25'.



d	O.D.	t	W	CRADLE		ARCH		ENCASE.	
				A	A	A	A	A	A
IN.	IN.	IN.	IN.	IN.	CY/FT	IN.	CY/FT	IN.	CY/FT
8	9.50	.750	24	6.4	.036	8.8	.039	21.5	.102
10	11.75	.875	24	6.9	.038	9.9	.047	23.8	.117
12	14	1.00	26	7.5	.043	11.0	.054	26.0	.134
15	17.5	1.25	29.5	8.4	.051	12.8	.066	29.5	.162
18	21	1.50	33	9.3	.061	14.5	.078	33.0	.191
21	24.5	1.75	36.5	10.1	.071	16.3	.093	36.5	.222
24	28	2.00	40	11.0	.085	18.0	.106	40.0	.256
27	31.5	2.25	43.5	11.9	.095	19.8	.121	43.5	.286
30	35	2.50	47	12.8	.106	21.5	.136	47.0	.321
36	41.5	2.75	53.5	14.4	.129	24.8	.167	53.5	.388

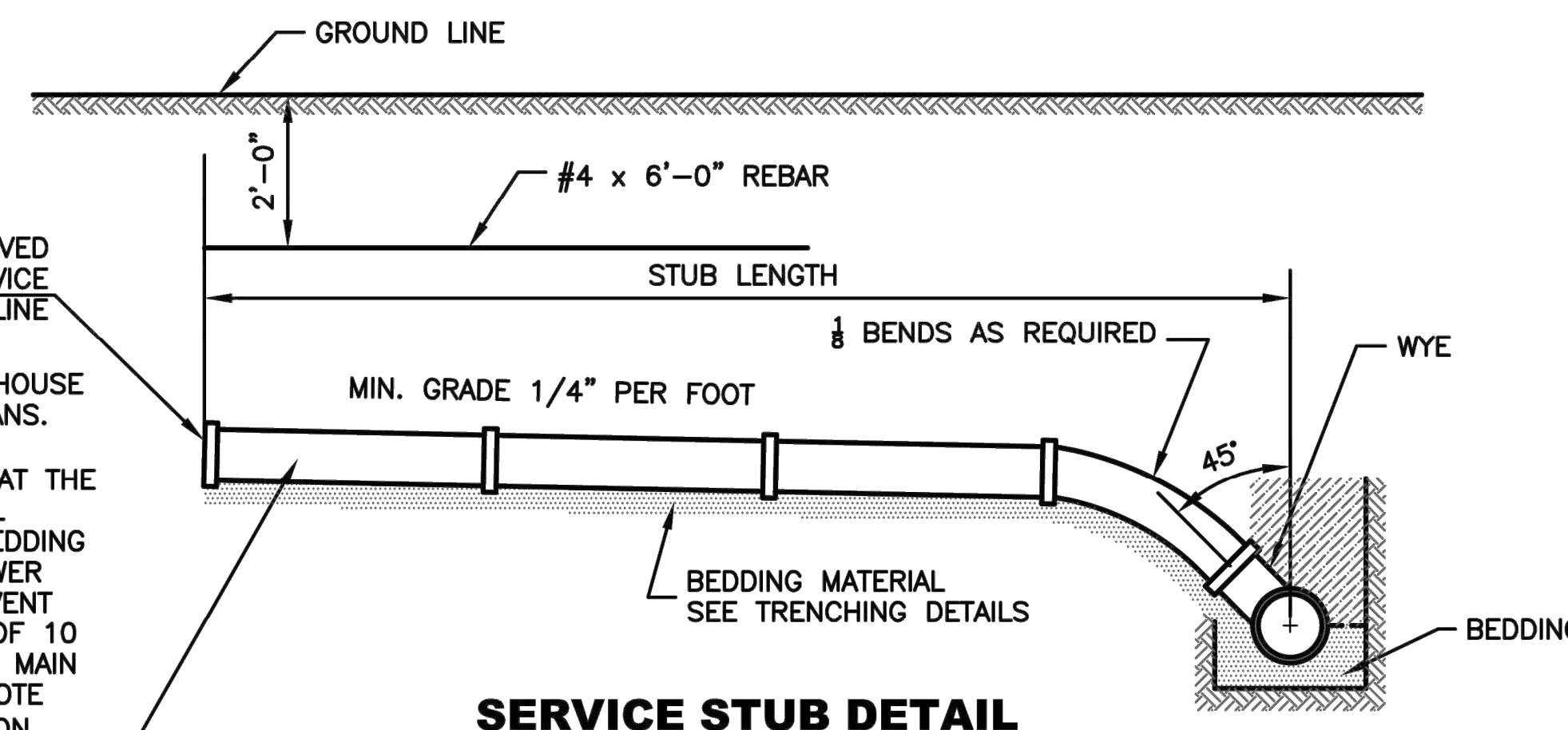
SCHEDULE FOR CONCRETE CRADLE, CONCRETE ARCH AND CONCRETE ENCASEMENT FOR SANITARY SEWERS

NOTE: MIN. 2500 PSI CONCRETE USED FOR CRADLING.

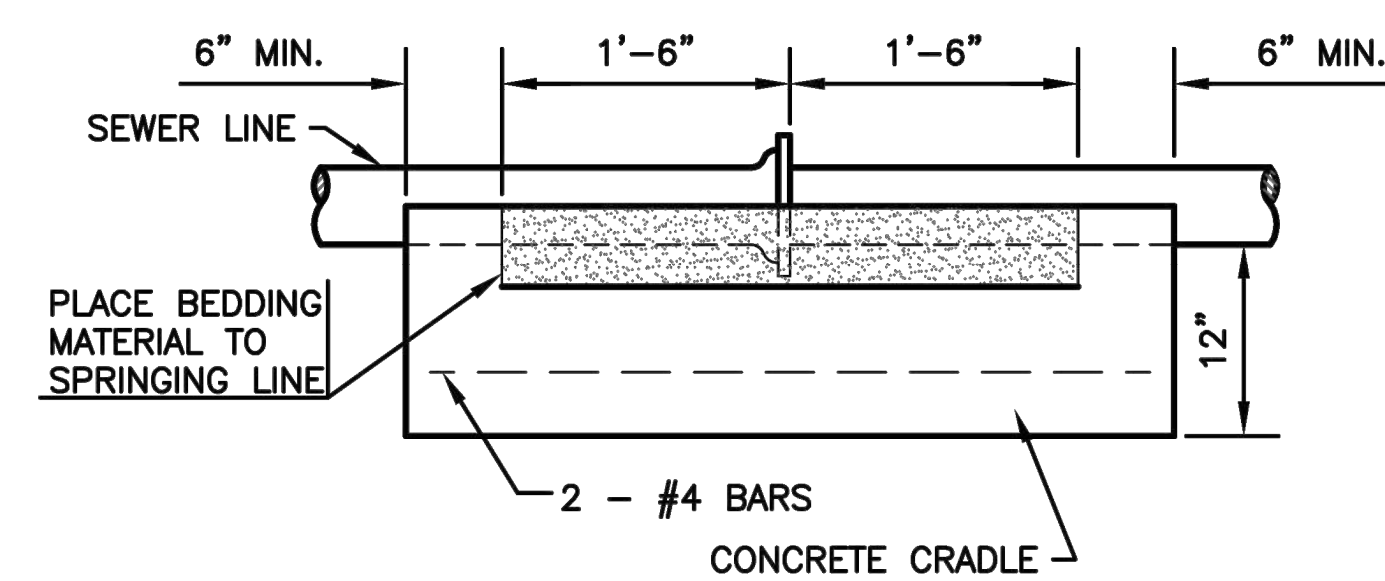
NOTE: MAXIMUM PIPE INTRUSION INTO STRUCTURE IS 4". UNIQUE STRUCTURES MIGHT REQUIRE ADDITIONAL ANALYSIS. ENGINEER APPROVAL REQUIRED.

MAXIMUM DEPTH AT PLUG LOCATION SHALL BE 14' BELOW TOP OF HOUSE FOUNDATION. LENGTH AND ELEVATION SHALL BE AS SHOWN ON PLANS. LINES SHALL BE PLACED AT RIGHT ANGLES FROM MAIN. ALIGNMENT CHANGES MUST BE MADE BY THE USE OF 1/8 BENDS CONNECTED AT THE WYE. UNIT PRICE BID PER LINEAL FOOT FOR SERVICE STUBS SHALL INCLUDE - TRENCHING, LAYING, BACKFILLING, PIPE, FITTINGS AND BEDDING MATERIAL. AT POINTS WHERE SEWERS CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON, PLASTIC PIPE WITH SOLVENT WELDED JOINTS, OR PIPE ENCASED IN CONCRETE FOR A DISTANCE OF 10 FEET IN EACH DIRECTION FROM THE CROSSING UNLESS THE WATER MAIN IS AT LEAST 2 FEET ABOVE THE SEWER. FOR SIZING DATA SEE NOTE ELSEWHERE, THIS SHEET. ALSO SEE "SANITARY SEWER CAP" DETAIL ON MISCELLANEOUS DETAILS II (DT-018).

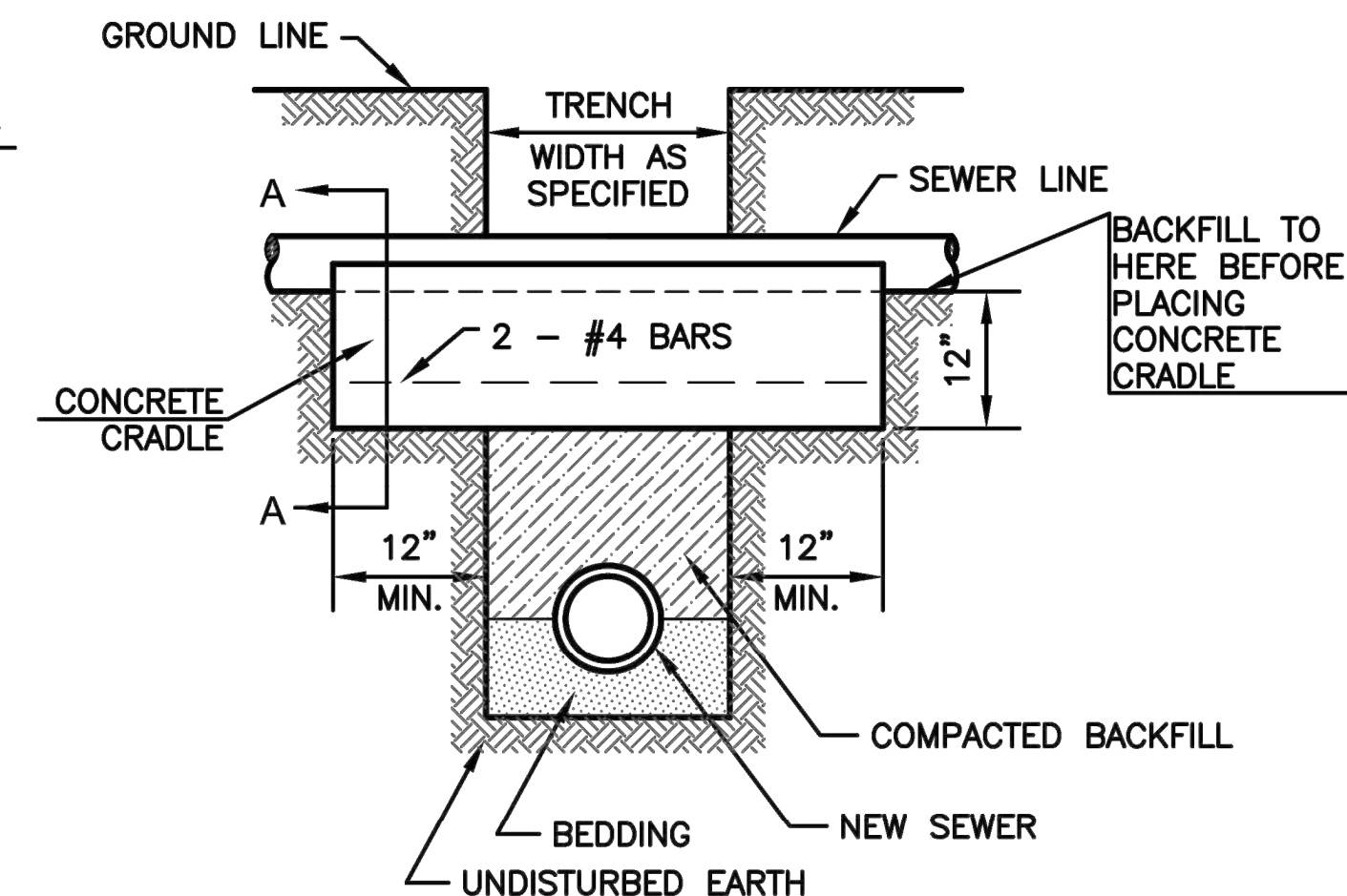
INSTALL APPROVED PLUGGING DEVICE AT PROPERTY LINE



SERVICE STUB DETAIL



JOINT CRADLE DETAIL



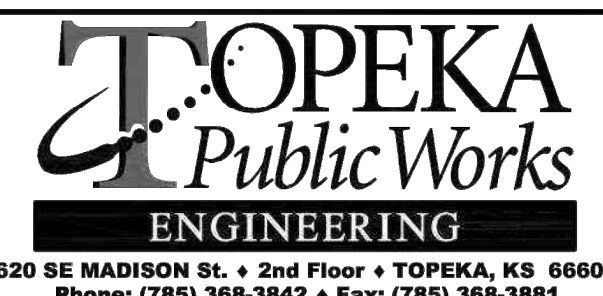
CRADLE DETAILS

NO.	DATE	REVISION	DHS	JH
4	June 2018	Added maximum pipe intrusion note	DHS	JVH
3	March 2013	Mod. Pvmt. Place. Sch. & Bedding Amt.	DHS	SB
2	Feb. 2008	Mod. Cradle & Arch and Pvmt. Place Sch.	DHS	SB
1	Dec. 2004	Mod. Serv. Note	DHS	JH

DRAWN BY: *rm/mc*
 APP'D BY: *FL*



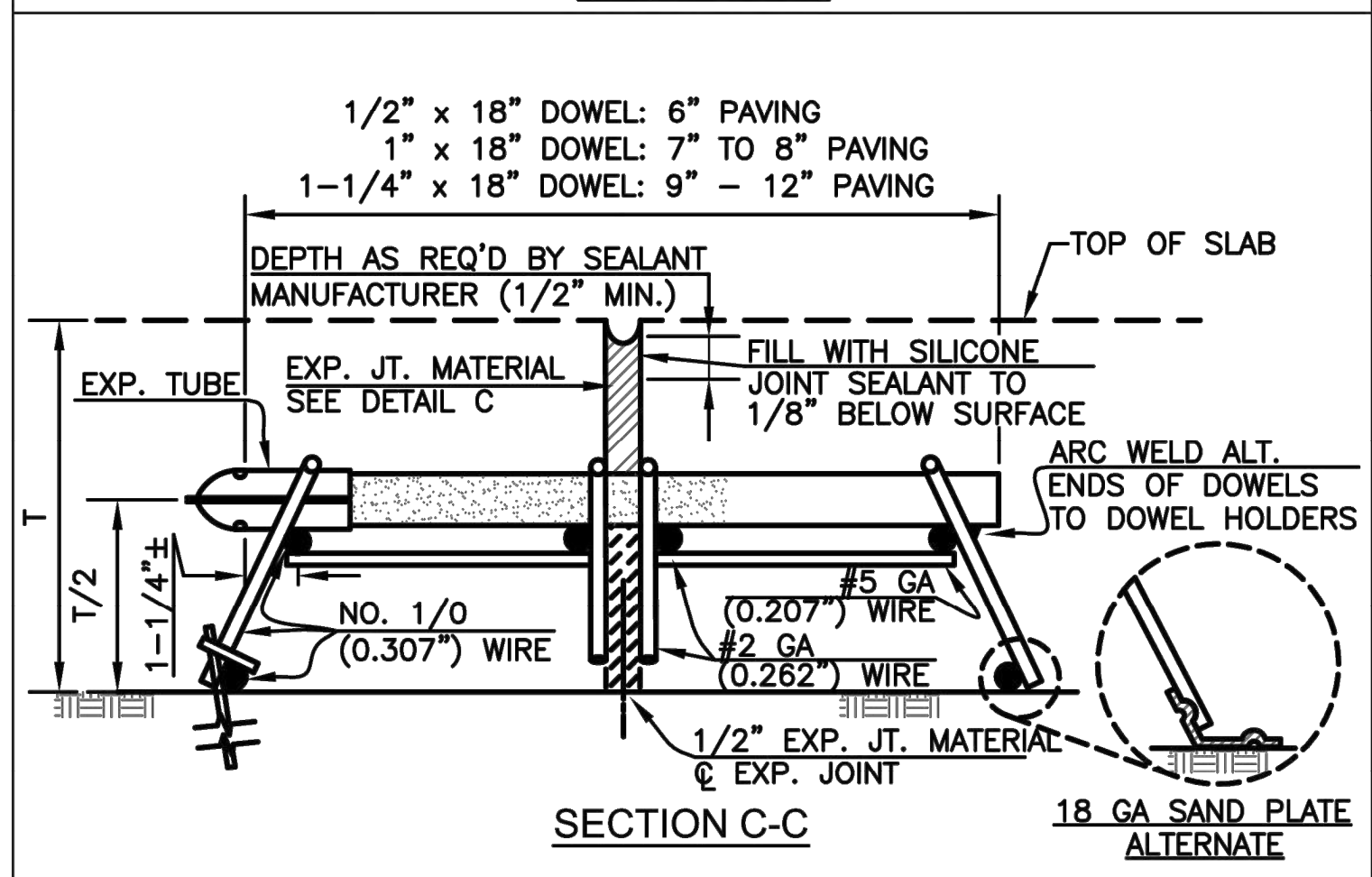
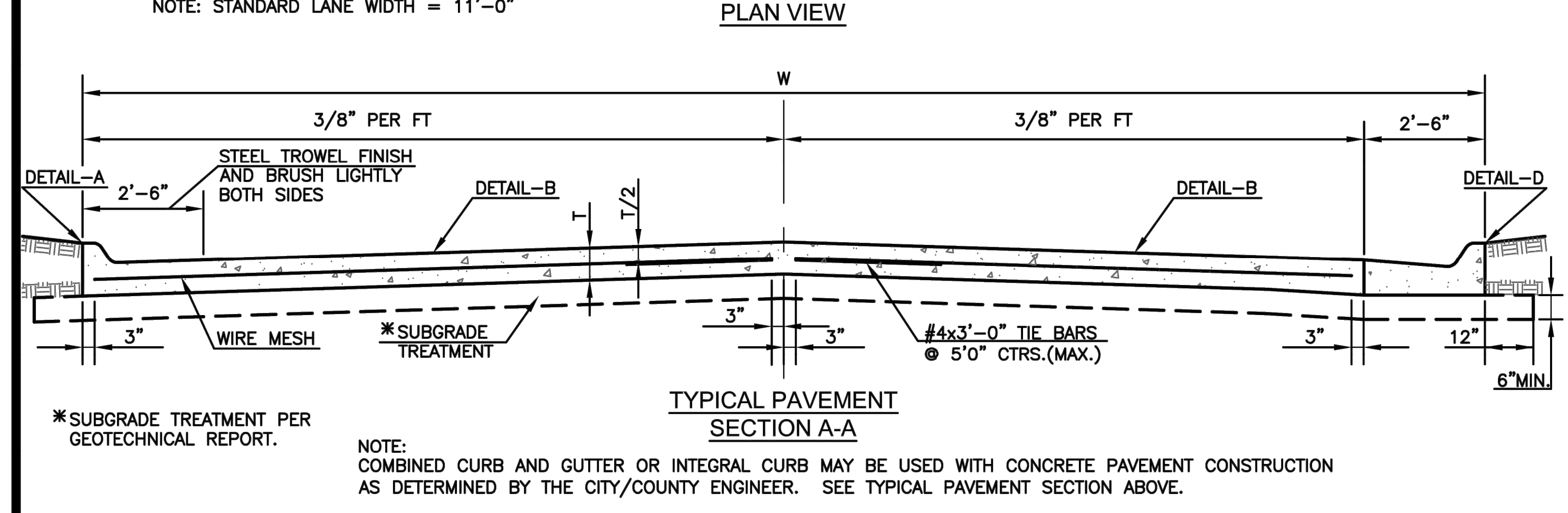
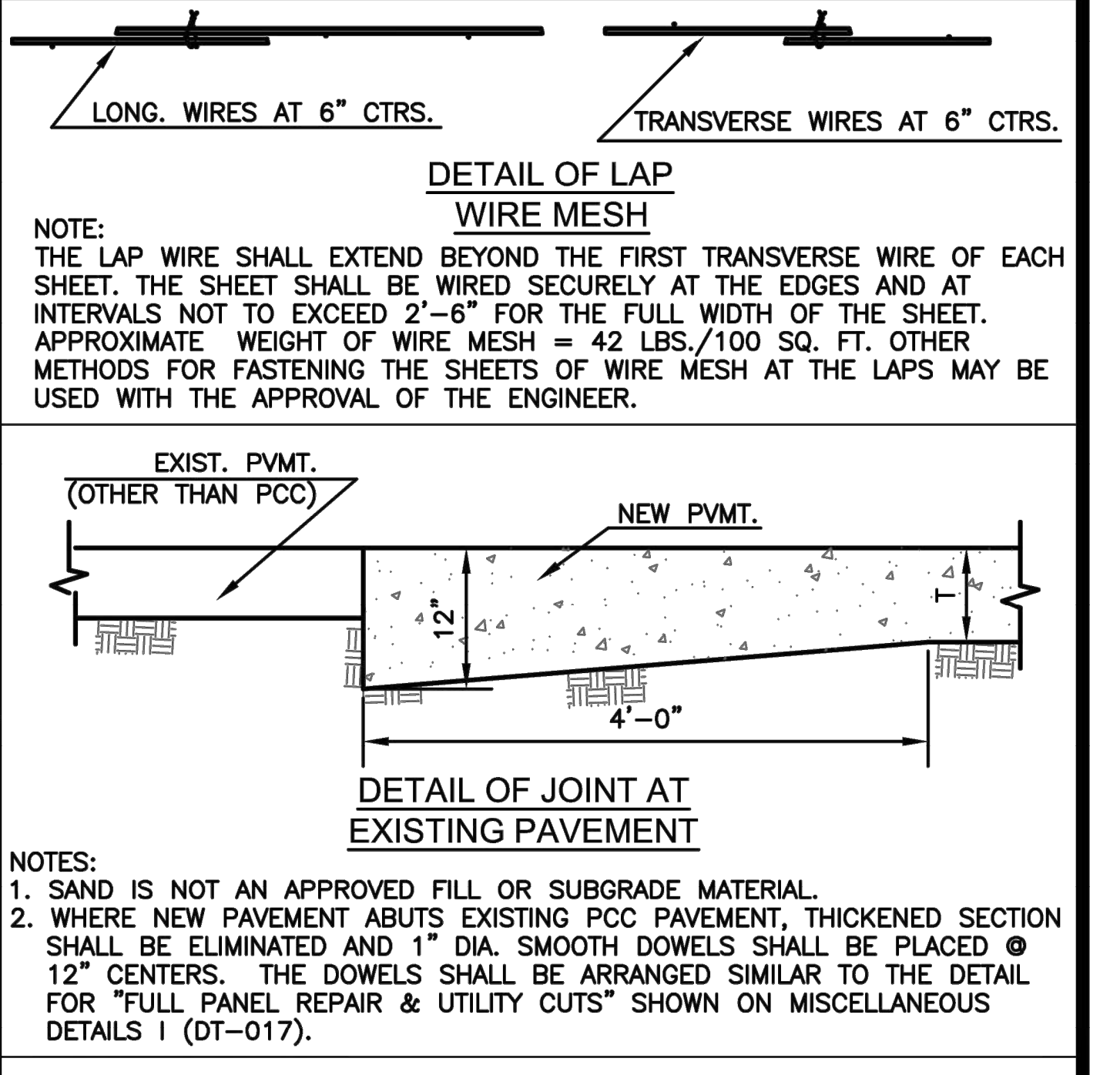
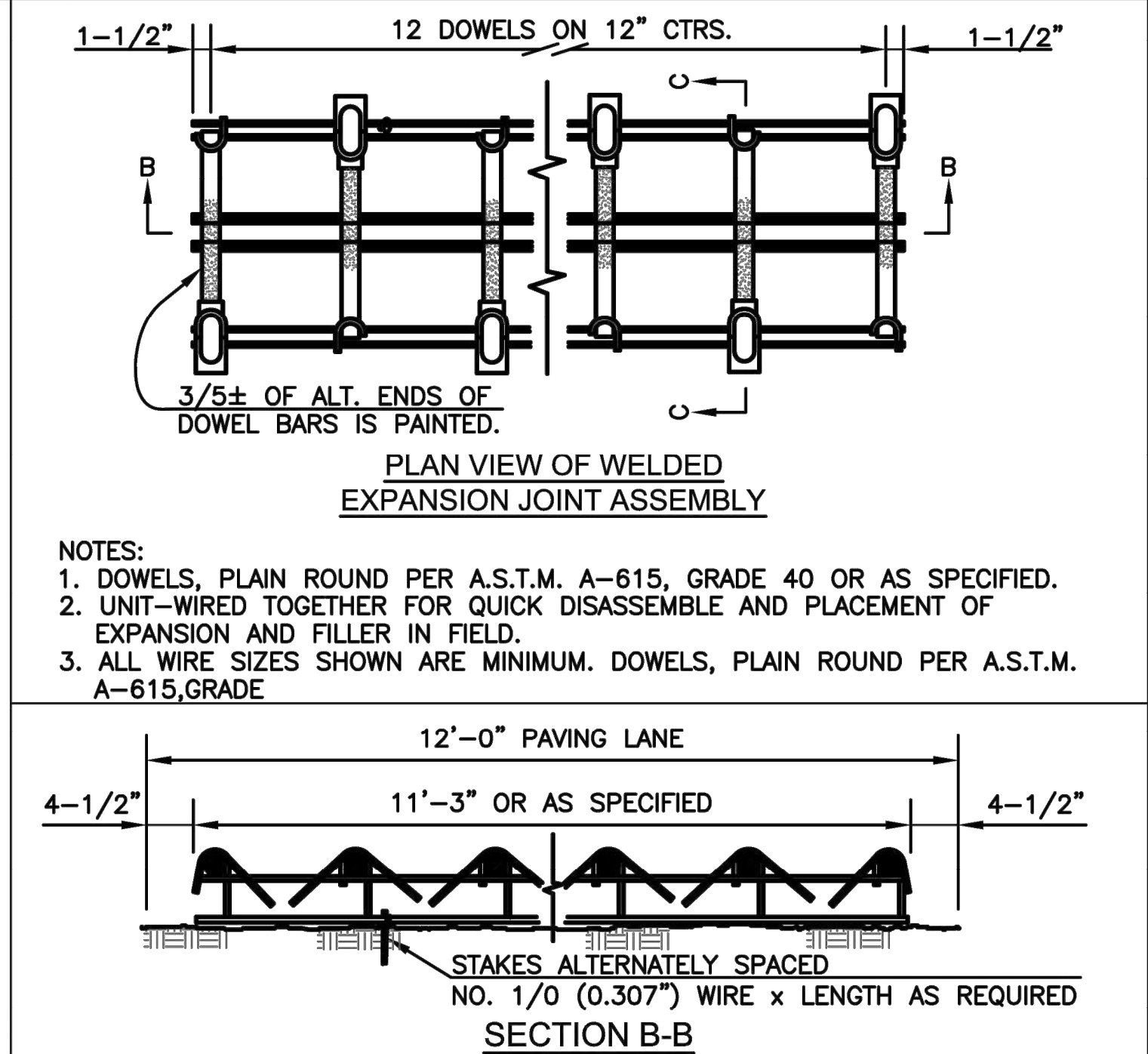
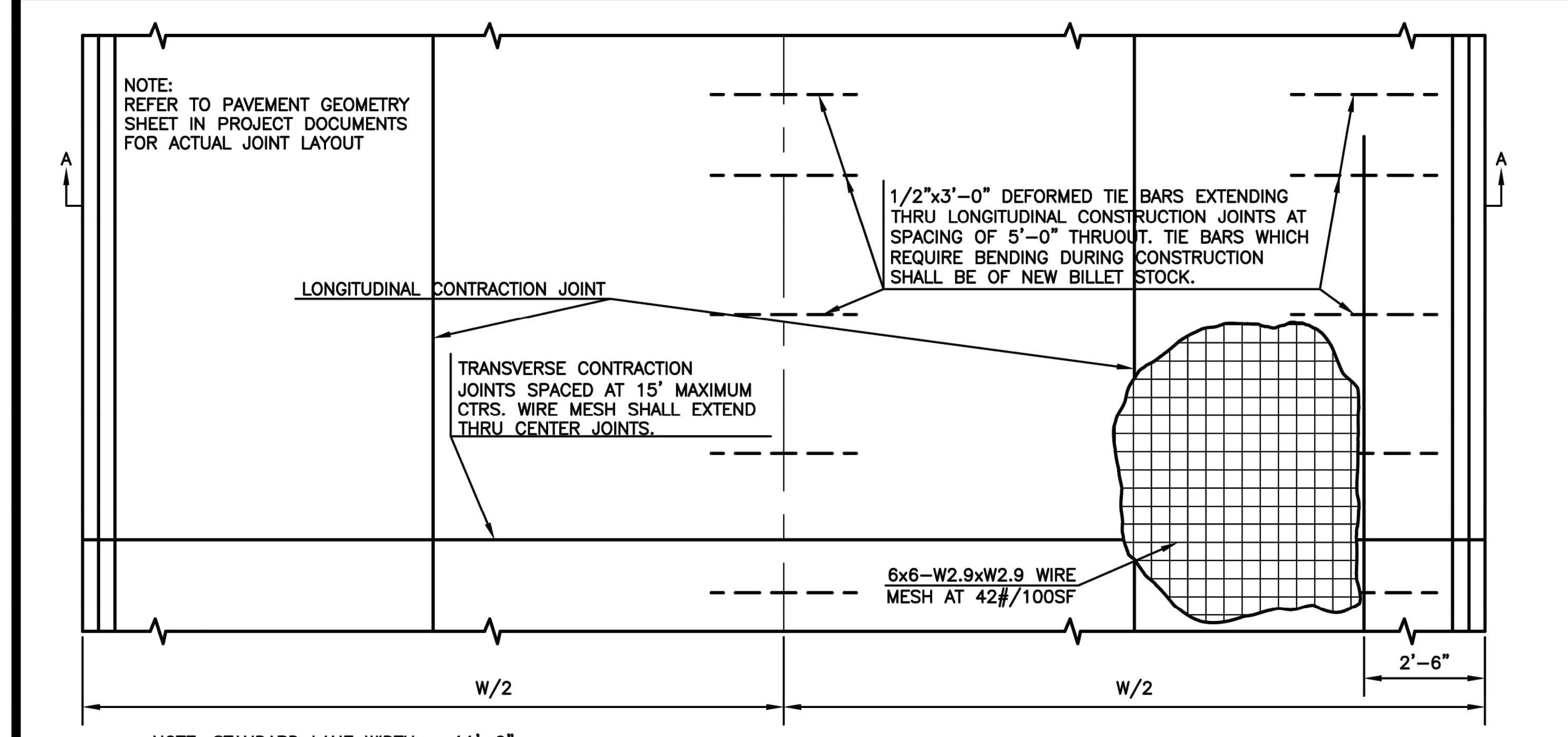
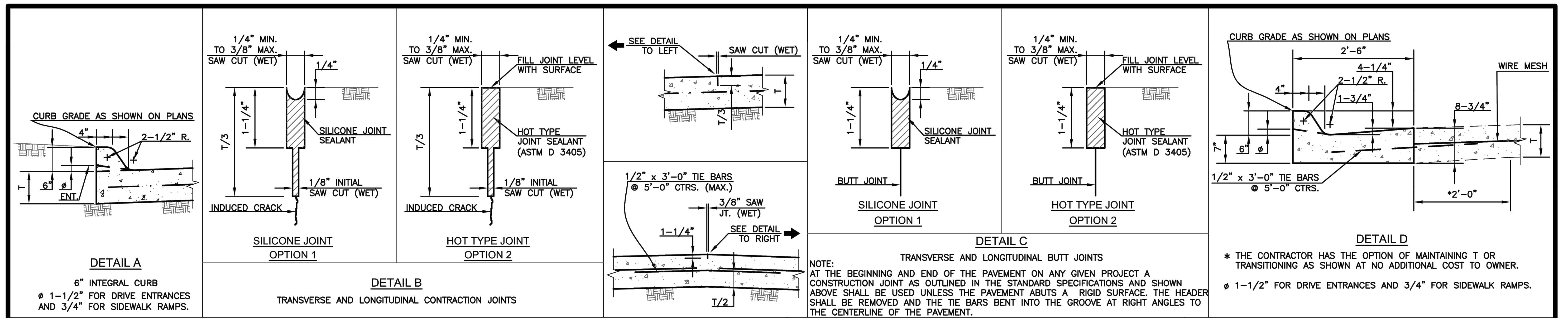
SHAWNEE COUNTY, KANSAS
PUBLIC WORKS DEPARTMENT
 1515 NW SALINE
 TOPEKA, KS 66618
 (785) 233-7702



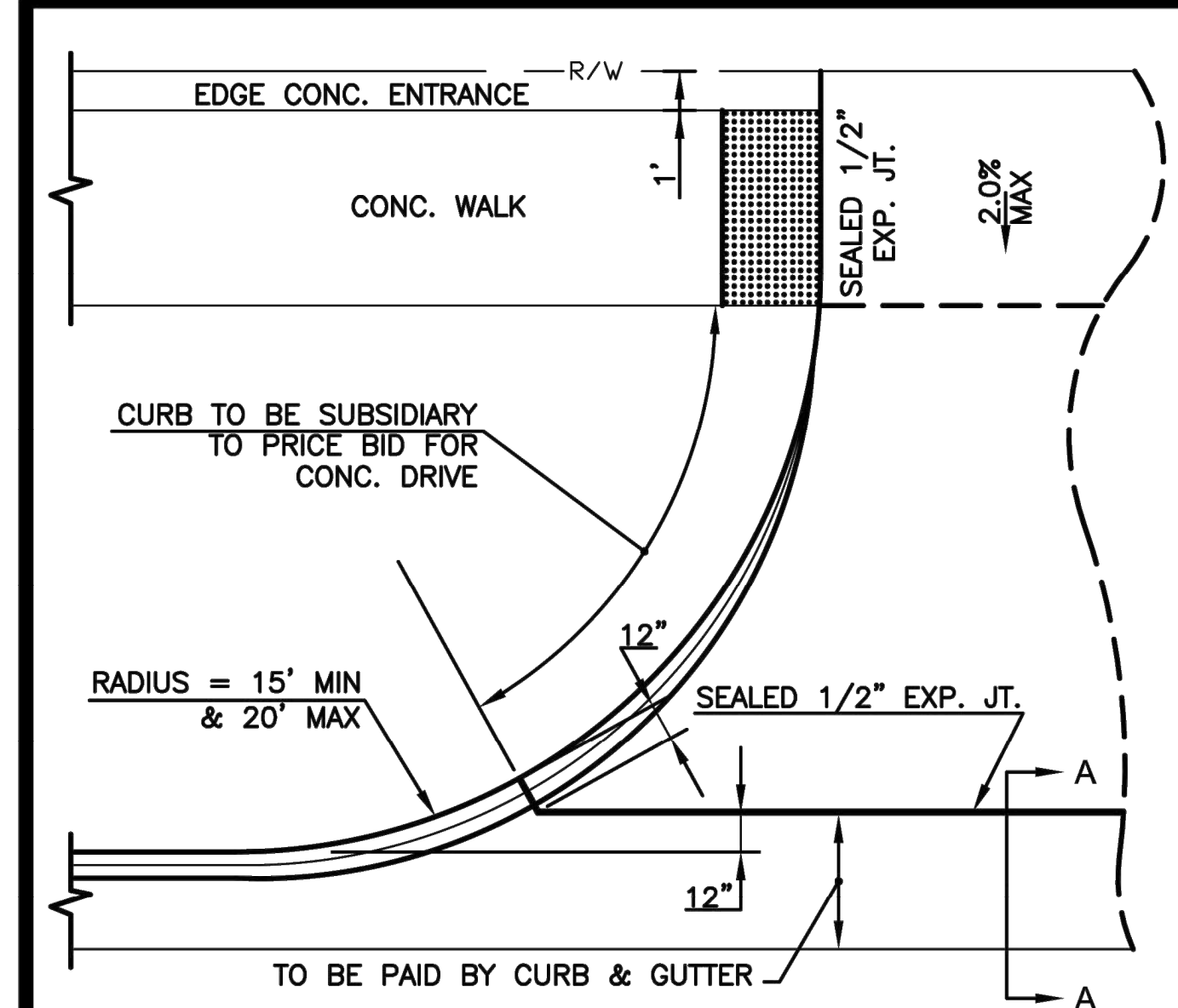
STANDARD DETAILS

SANITARY SEWER DETAILS
 (DT-007)

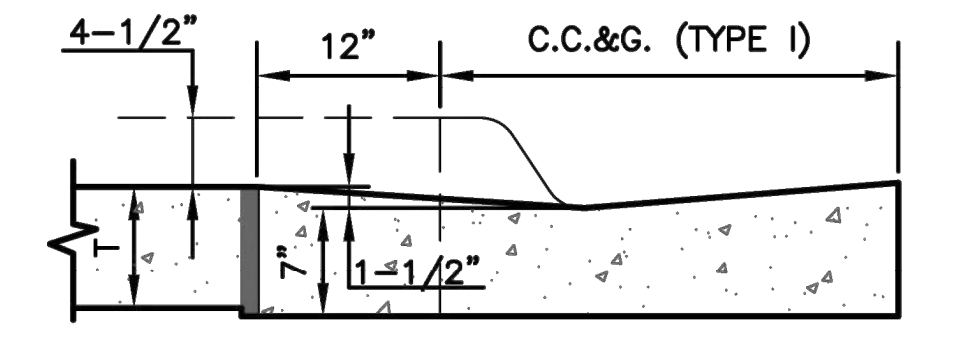
DATE: FEBRUARY 2026
 SHEET: 18 OF 36
 PROJ.: 841201.02
 221114-000



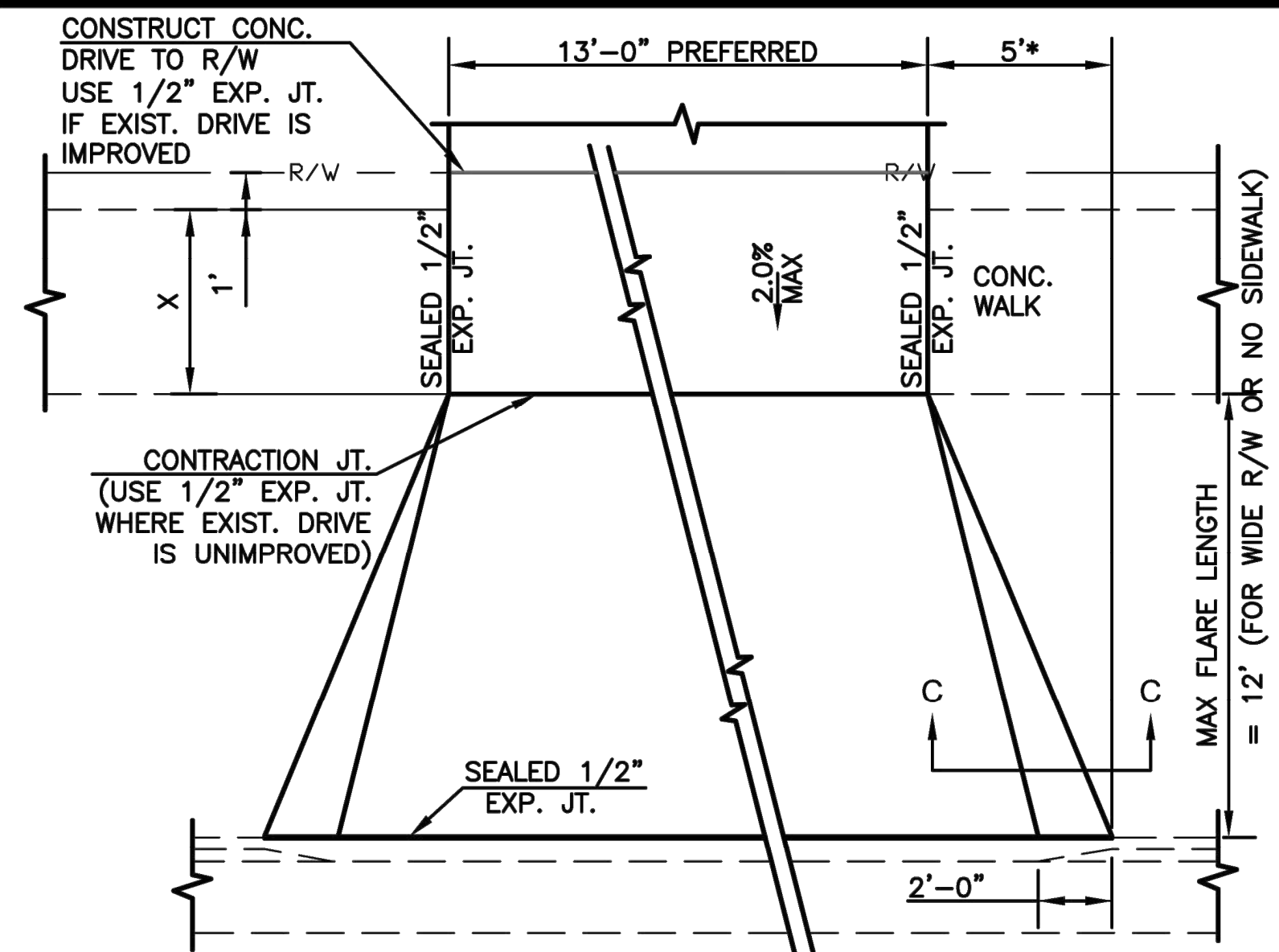
6	June 2018	Eliminated sealing butt joint at curb toe	DHS	JVH	DRAWN BY: <i>mm/mc</i>	<p>SHAWNEE COUNTY, KANSAS PUBLIC WORKS DEPARTMENT 1515 NW SALINE TOPEKA, KS 66618 (785) 233-7702</p>	<p>TOPEKA Public Works ENGINEERING 620 SE MADISON St. • 2nd Floor • TOPEKA, KS 66607 Phone: (785) 368-3842 • Fax: (785) 368-3881</p>	<p>STANDARD DETAILS</p>	<p>CONCRETE PAVEMENT DETAILS (DT-002)</p>	DATE: FEBRUARY 2026
5	March 2013	Made bar size " & added ref. to DT-017	DHS	SB	APP'D BY: <i>R. Cloutier</i>					SHEET: 19 OF 36
4	Dec. 2012	Changed to tie bars at Detail D	DHS	SB						PROJ.: 841201.02
3	March 2010	Eliminated keyed joint at Typical Section	DHS	SB						221114-000
2	Dec. 2009	Eliminated keyed joints	DHS	SB						
1	Feb. 2008	Mod. Det.'s B,C&D and Sect.'s A-A&D-D	DHS	SB						
NO.	DATE:	REVISION	BY:	APP'D						



COMMERCIAL DRIVE APPROACH

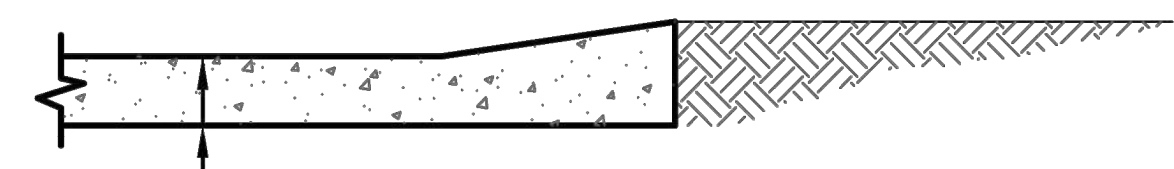


SECTION A - A
T=8" NON-REINFORCED FOR COMMERCIAL DRIVE, ALLEY APPROACH, AND SIDEWALK IN DRIVE ENTRANCE.

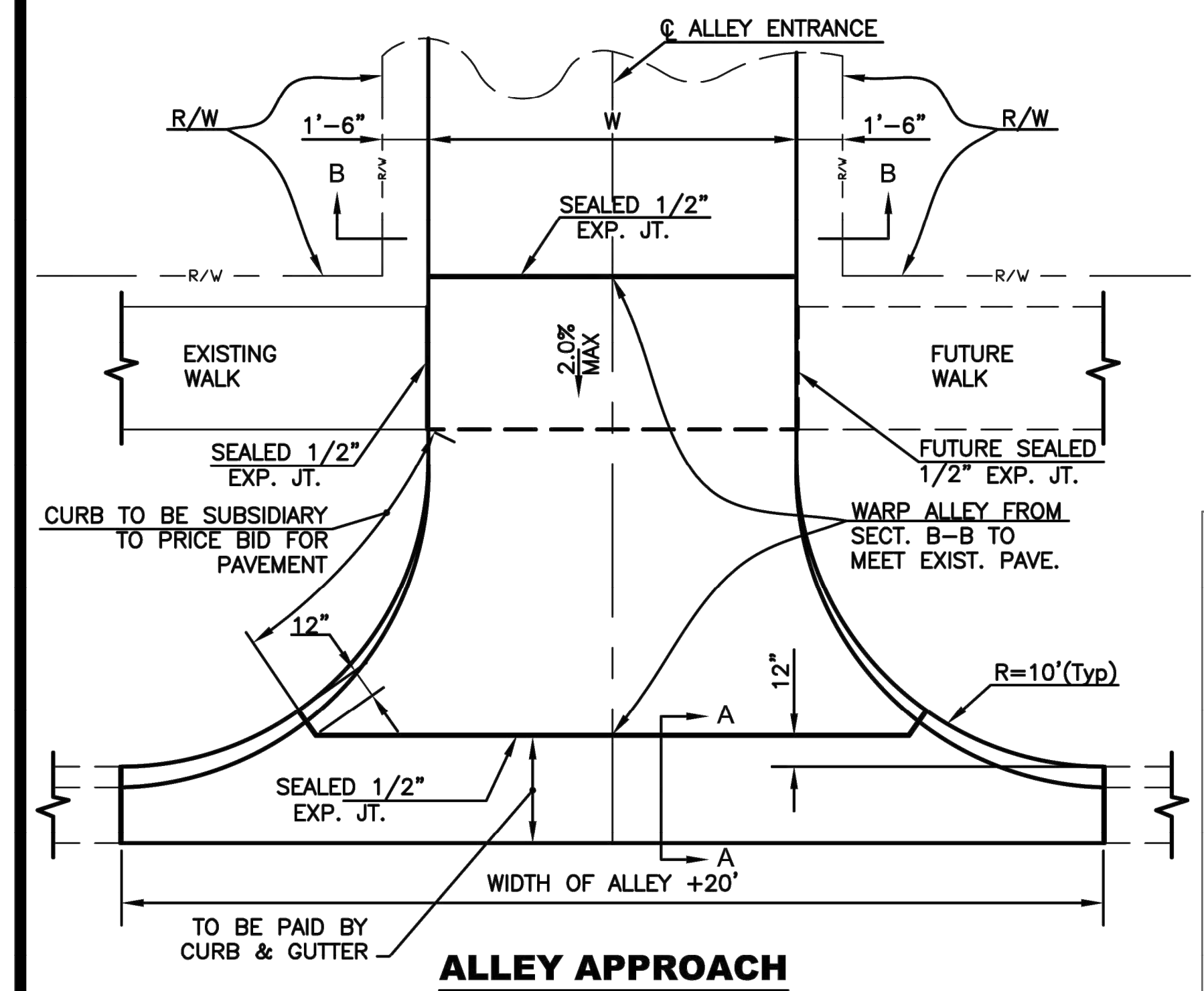


TYPICAL PRIVATE DRIVE APPROACH

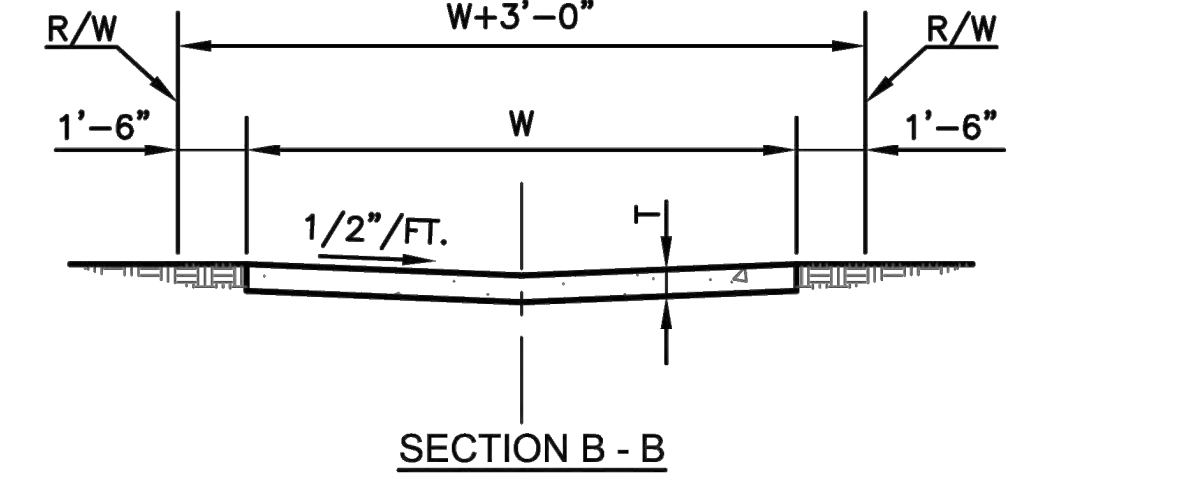
- NOTES:
1. A SPECIAL DETAIL WILL BE PROVIDED WHEN SIDEWALK IS CLOSER THAN 6'-0" FROM BACK OF CURB.
2. THEORETICAL CURB HEIGHT OF 6" ABOVE \bar{E} SHALL BE OBTAINED IN ENTRANCE PAVEMENT.
* FLARE SHALL BE 5 FEET WIDE IN NEW CONSTRUCTION. VARIANCES MAY BE MADE WITH APPROVAL OF THE CITY ENGINEER IN SPECIAL CIRCUMSTANCES FOR THE REPLACEMENT OF EXISTING DRIVEWAYS.



SECTION C - C
T₁=6" FOR RESIDENTIAL DRIVE APPROACH AND SIDEWALK IN DRIVE ENTRANCE

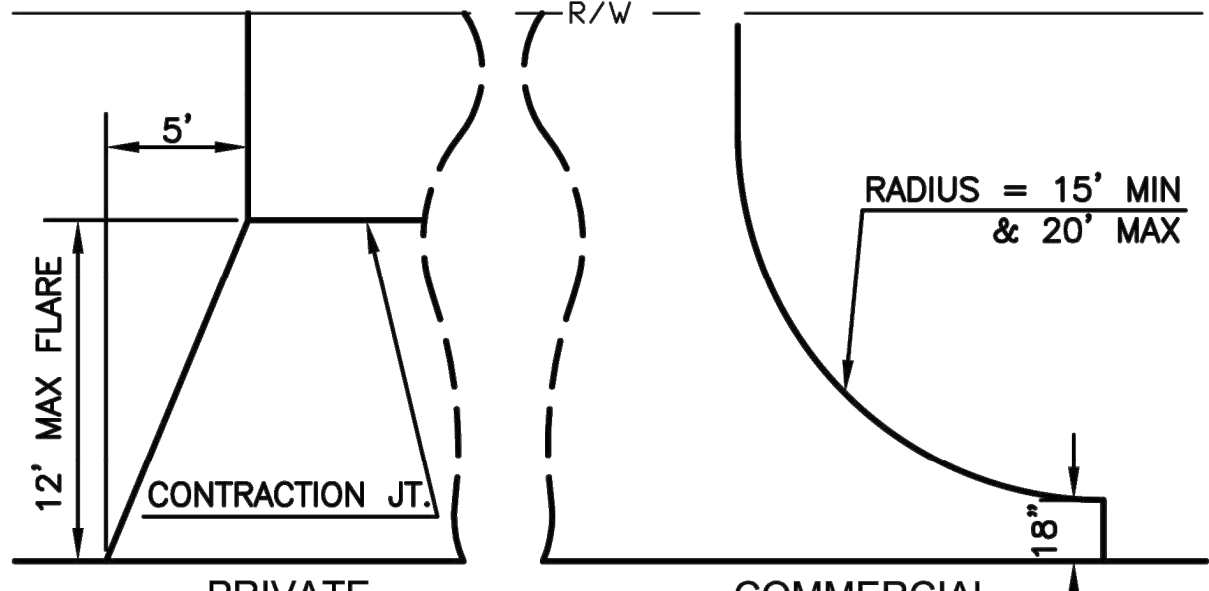


ALLEY APPROACH

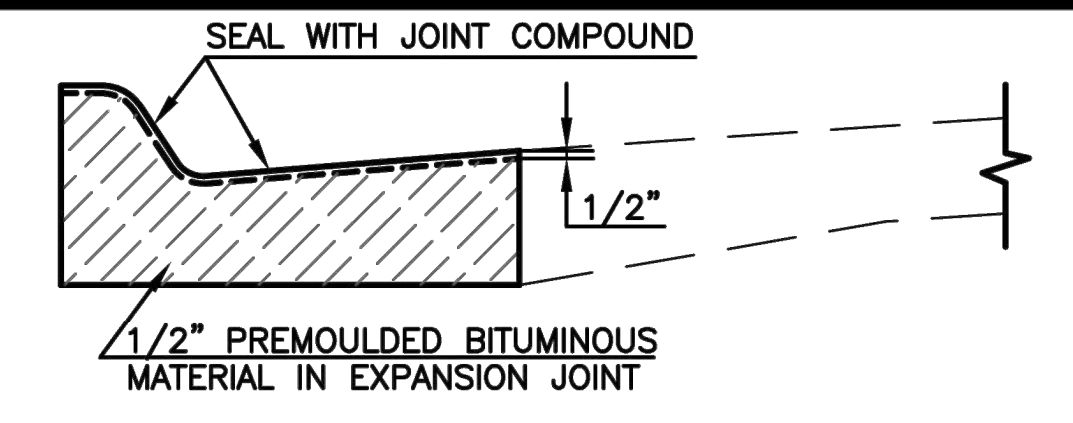


SECTION B - B

- NOTES:
1. T=7" REINFORCED CONCRETE
2. WIDTH OF W WILL BE USED THROUGHOUT ON ALL ALLEY PAVING PROJECTS.
3. ALLEY RETURNS SHALL BE THE SAME THICKNESS AS THE ADJACENT STREET THICKNESS.
4. 1/2" EXP. JOINT AT EACH END OF ALLEY RETURN.

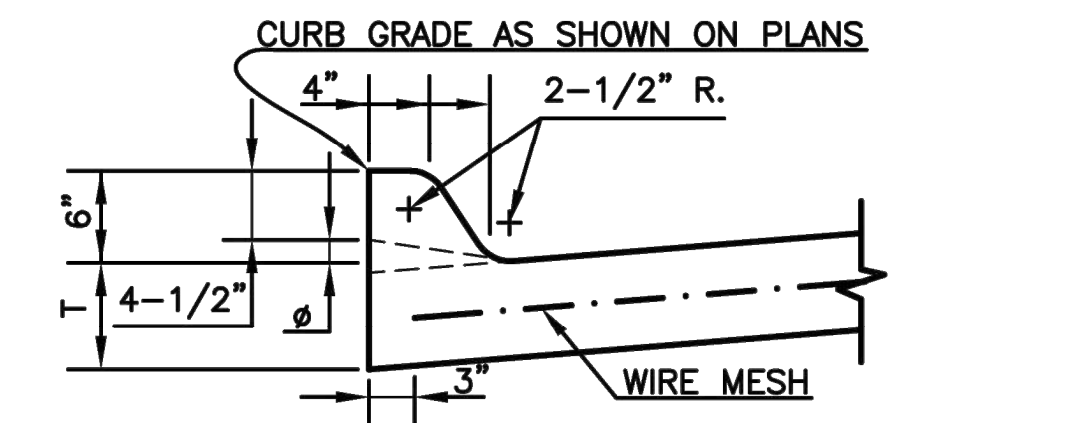


PRIVATE DRIVE APPROACHES ON AN UNIMPROVED ROADWAY

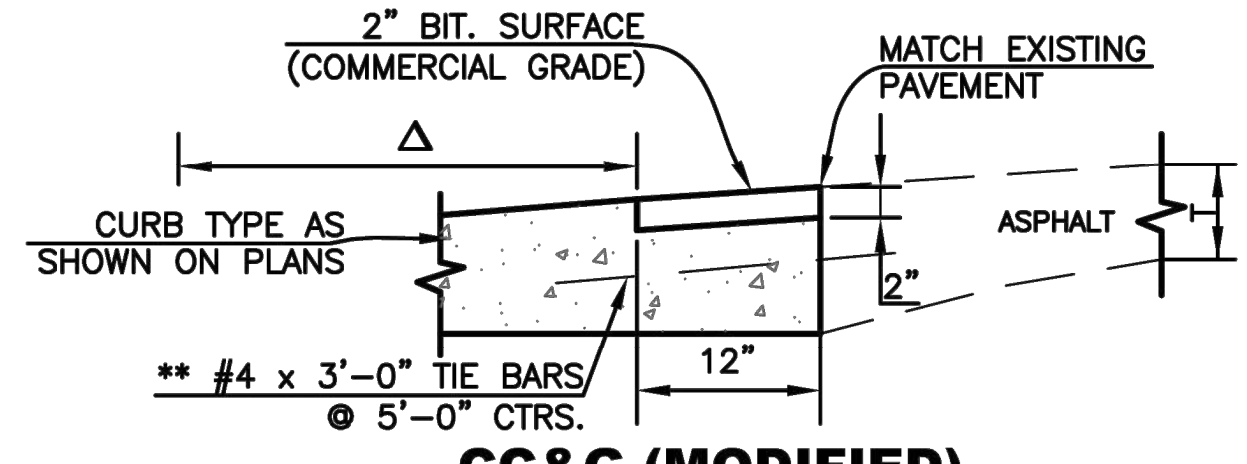


CURB AND GUTTER EXPANSION JOINT DETAILS

- NOTES:
1. 1/2" EXPANSION JOINTS TO BE PLACED AT THE END OF ALL INTERSECTION RETURNS.
2. SAND IS NOT AN APPROVED FILL OR SUBGRADE MATERIAL.
3. ALL EXPANSION JOINTS SHALL BE SEALED WITH APPROVED MATERIAL.

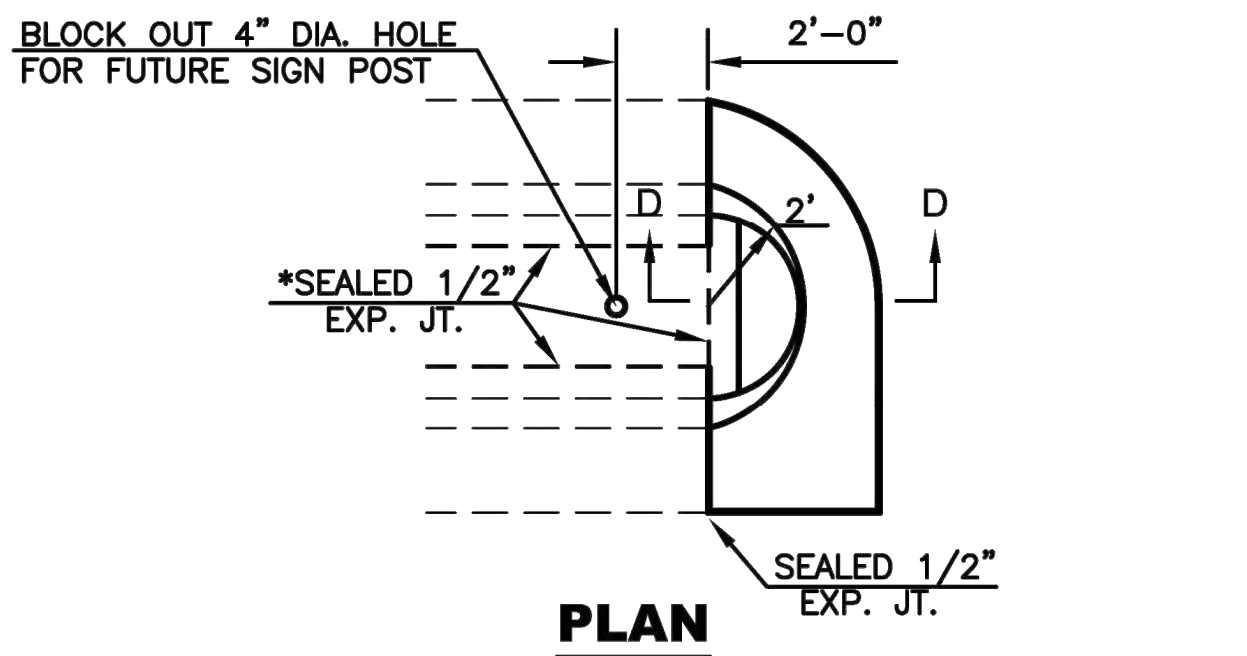


6" INTEGRAL CURB

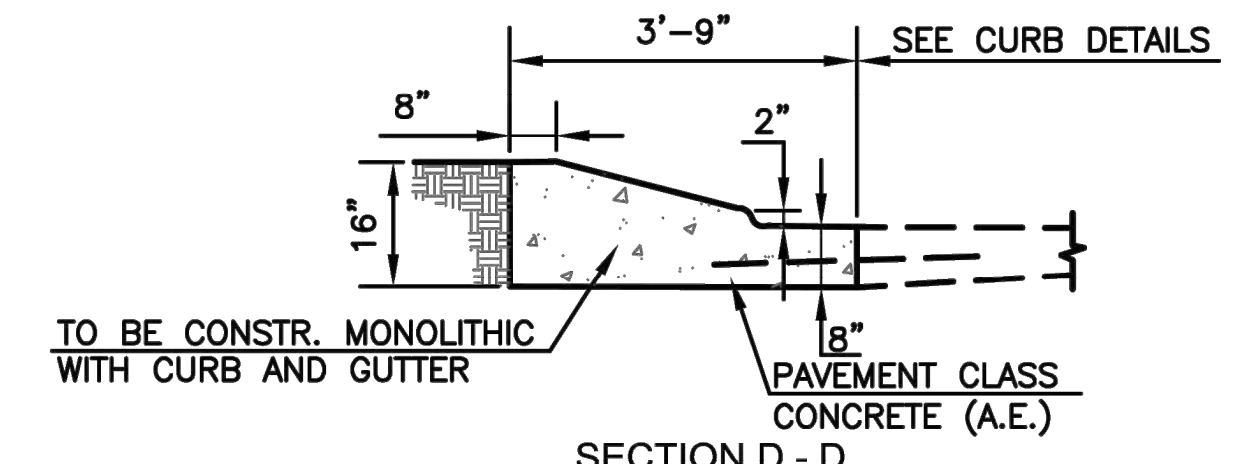


CC&G (MODIFIED)

- NOTE:
CURB AND GUTTER ABUTTING EXISTING ASPHALT
Δ DIMENSION IS FROM BACK OF CURB TO TOE, SEE APPROPRIATE DETAIL FOR CURB TYPE AS SHOWN ON PLANS



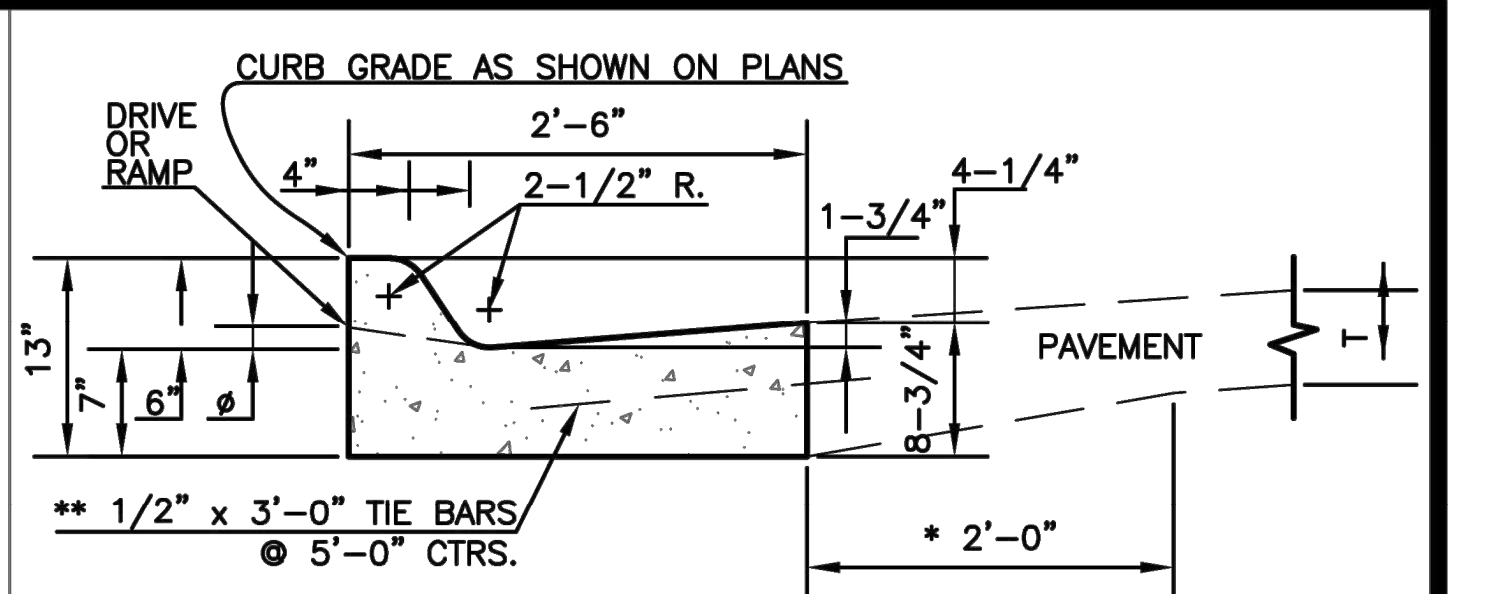
PLAN



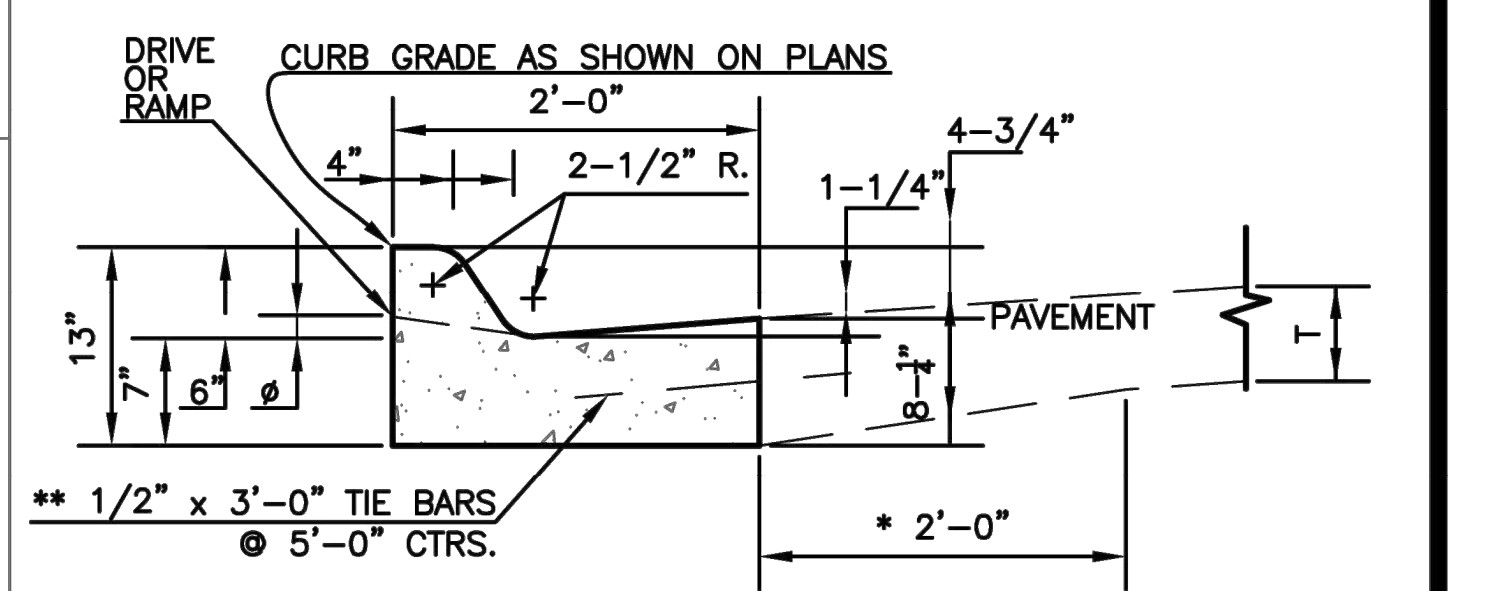
SECTION D - D

- NOTE:
PAVEMENT CLASS CONCRETE (AE) NEEDED TO COMPLETE THE MEDIAN NOSE SHALL BE SUBSIDIARY TO THE BID ITEM FOR COMBINED CURB AND GUTTER TYPE III.
* OMIT SEALED 1/2" EXPANSION JOINT WHEN SURFACE MATERIAL USED IN MEDIAN IS OTHER THAN CONCRETE.

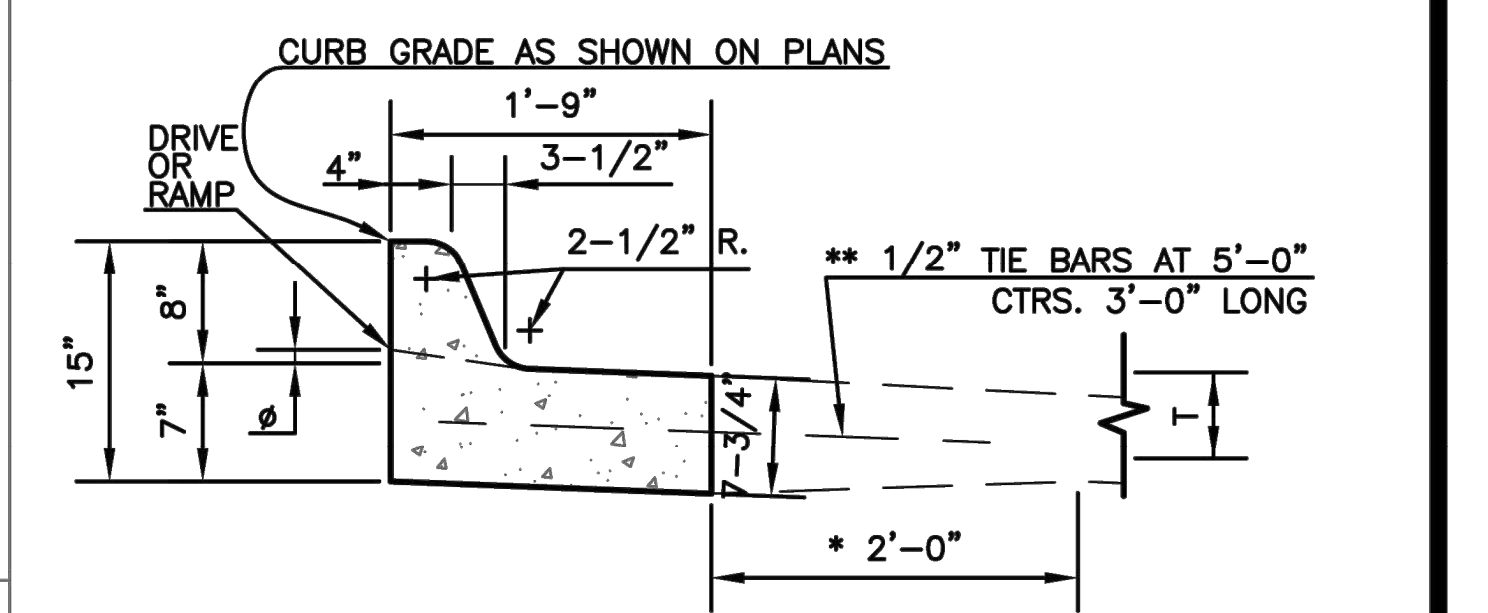
SOLID NOSE DETAILS



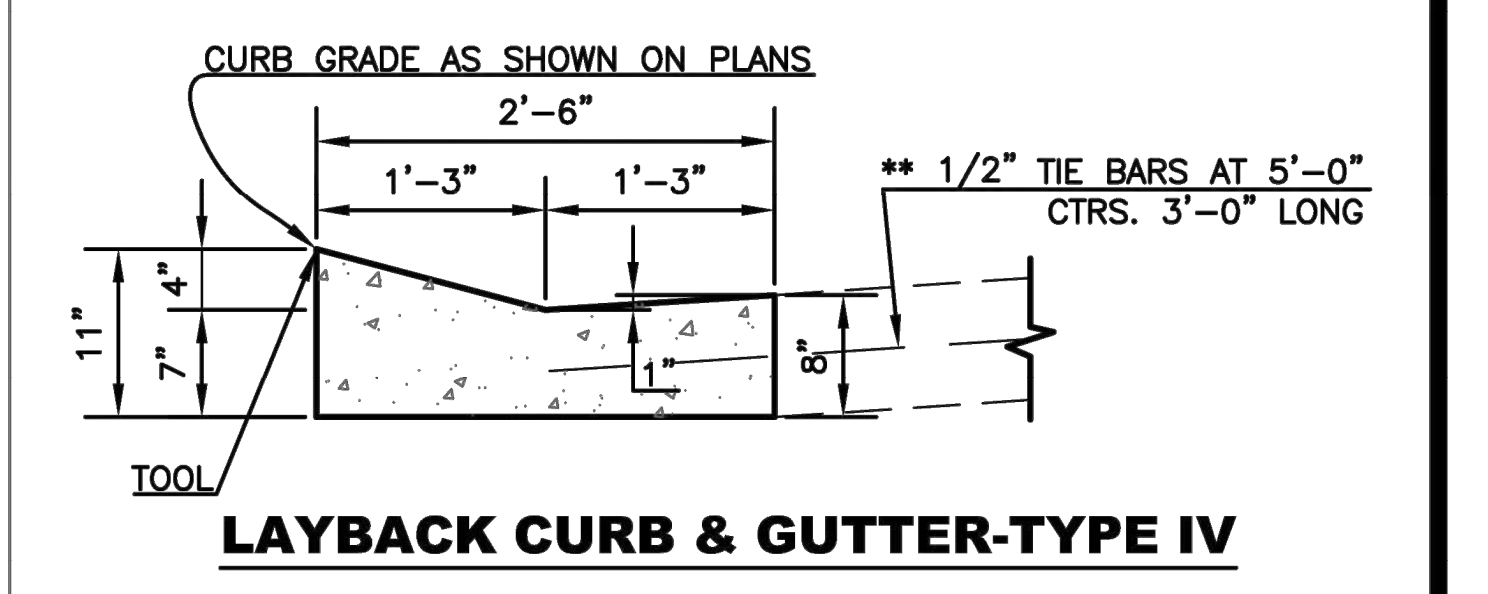
COMBINED CURB & GUTTER-TYPE I



COMBINED CURB & GUTTER-TYPE II



COMBINED CURB & GUTTER-TYPE III



LAYBACK CURB & GUTTER-TYPE IV

- NOTES:
1. USE OF LAYBACK CURB AND GUTTER IS RESTRICTED TO STREET CLASSIFICATION OF SUB-COLLECTOR AND LOCAL. LAYBACK CURB AND GUTTER SHALL NOT BE USED IN INTERSECTION CURB RETURNS.
2. FOR CURB AND GUTTER ABUTTING EXISTING ASPHALT, REFER TO CC&G MODIFIED DETAIL

* THE CONTRACTOR HAS THE OPTION OF MAINTAINING OR TRANSITIONING AS SHOWN AT NO ADDITIONAL COST.

**THE TIE BARS MAY BE ELIMINATED WITH ASPHALTIC CONCRETE PAVEMENT CONSTRUCTION.

Ø 1-1/2" FOR DRIVE ENTRANCES AND 3/4" FOR SIDEWALK RAMP

5	March 2013	C&G payment @ alley appr. & bars to "	DHS	SB
4	Dec. 2012	Changed to tie bar from rebar	DHS	SB
3	March 2010	Eliminated keyed jt. at Com. Drive Appr.	DHS	SB
2	Dec. 2009	Added Dr. Appr. on Unimpr. Rdwy., added flare verbage, mod. S/W x-slope & remov. keyed joints from C & G.	DHS	SB
1	Feb. 2008	Mod. Com. Dr. & Alley Appr.	DHS	SB
NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: *mm/mc*
APP'D BY: *R. Christy*



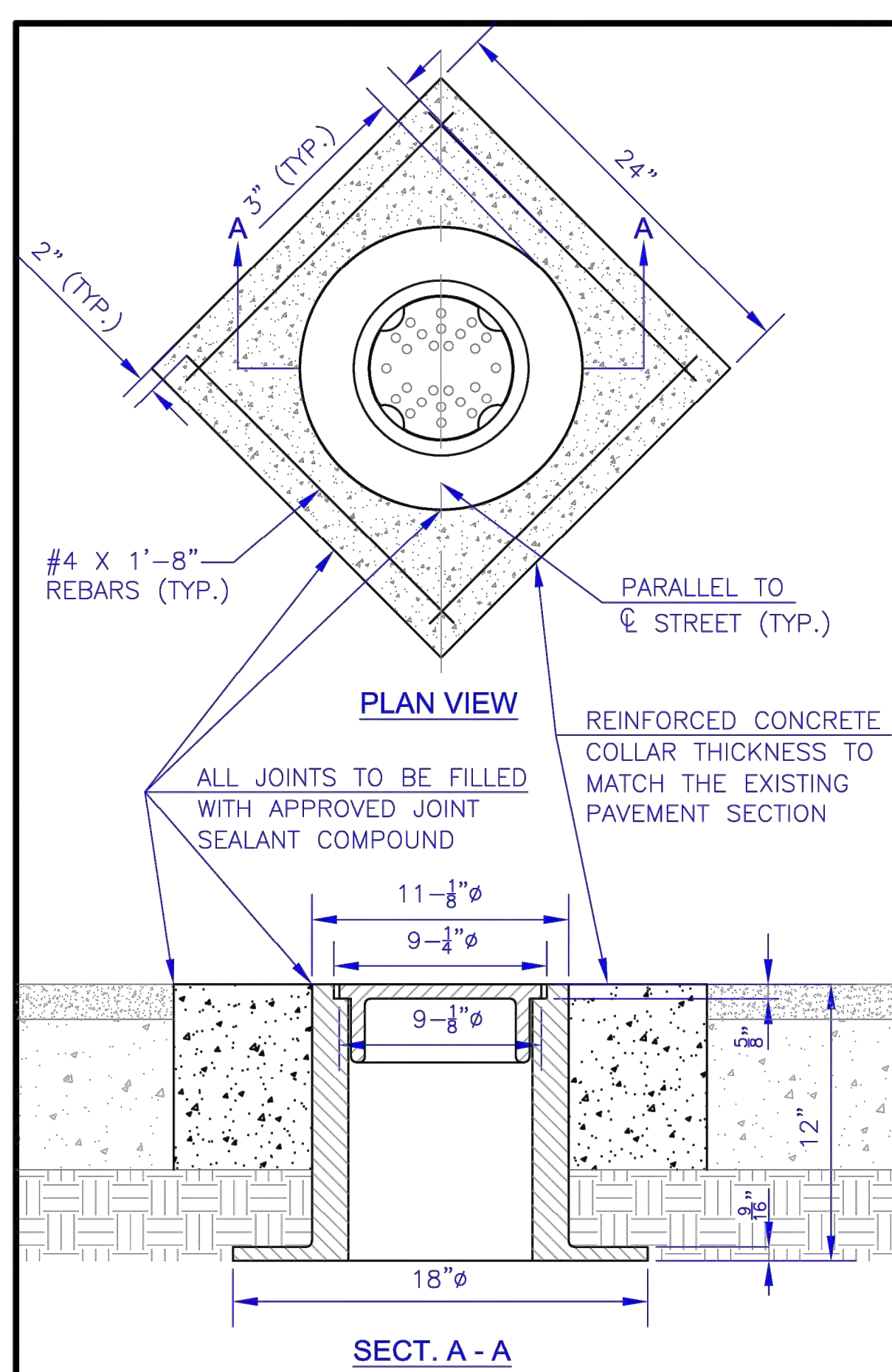
SHAWNEE COUNTY, KANSAS
PUBLIC WORKS DEPARTMENT
1515 HW SALINE
TOPEKA, KS 66618
(785) 233-7702



STANDARD DETAILS

CURB & GUTTER AND APPROACH DETAILS
(DT-003)

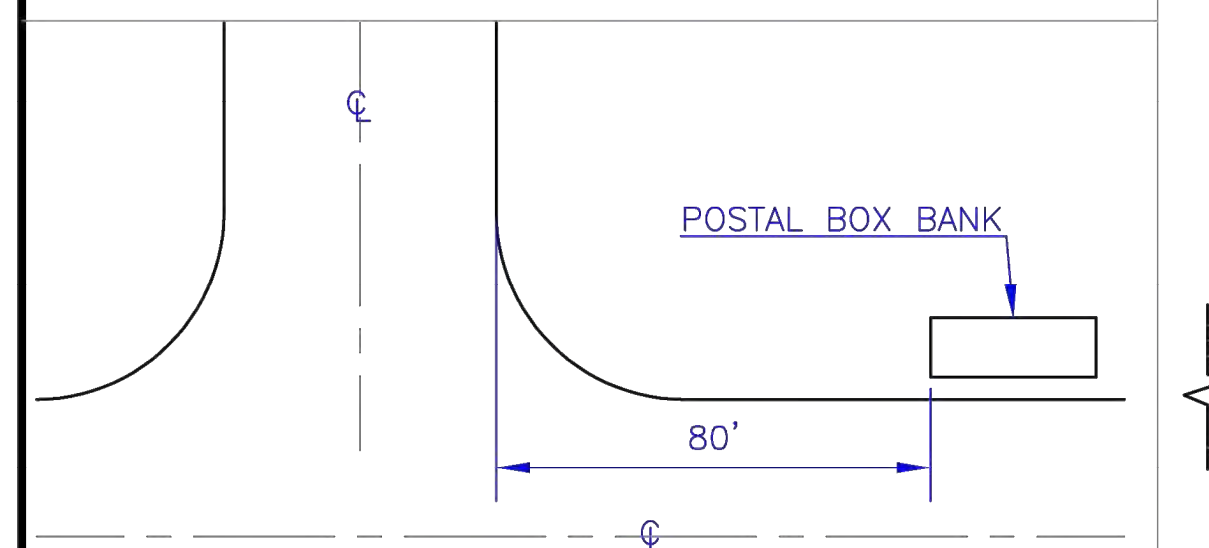
DATE: FEBRUARY 2026
SHEET: 20 OF 36
PROJ.: 841201.02
221114-000



CAST IRON MONUMENT BOX

NOTES:

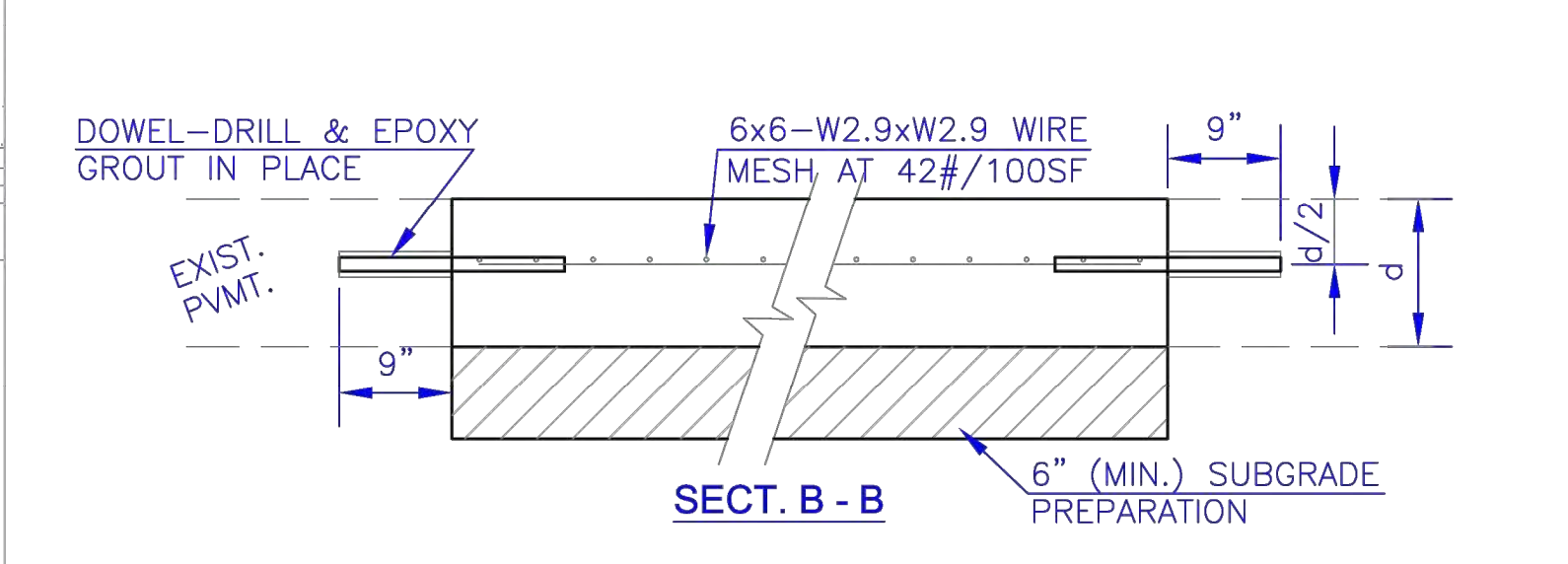
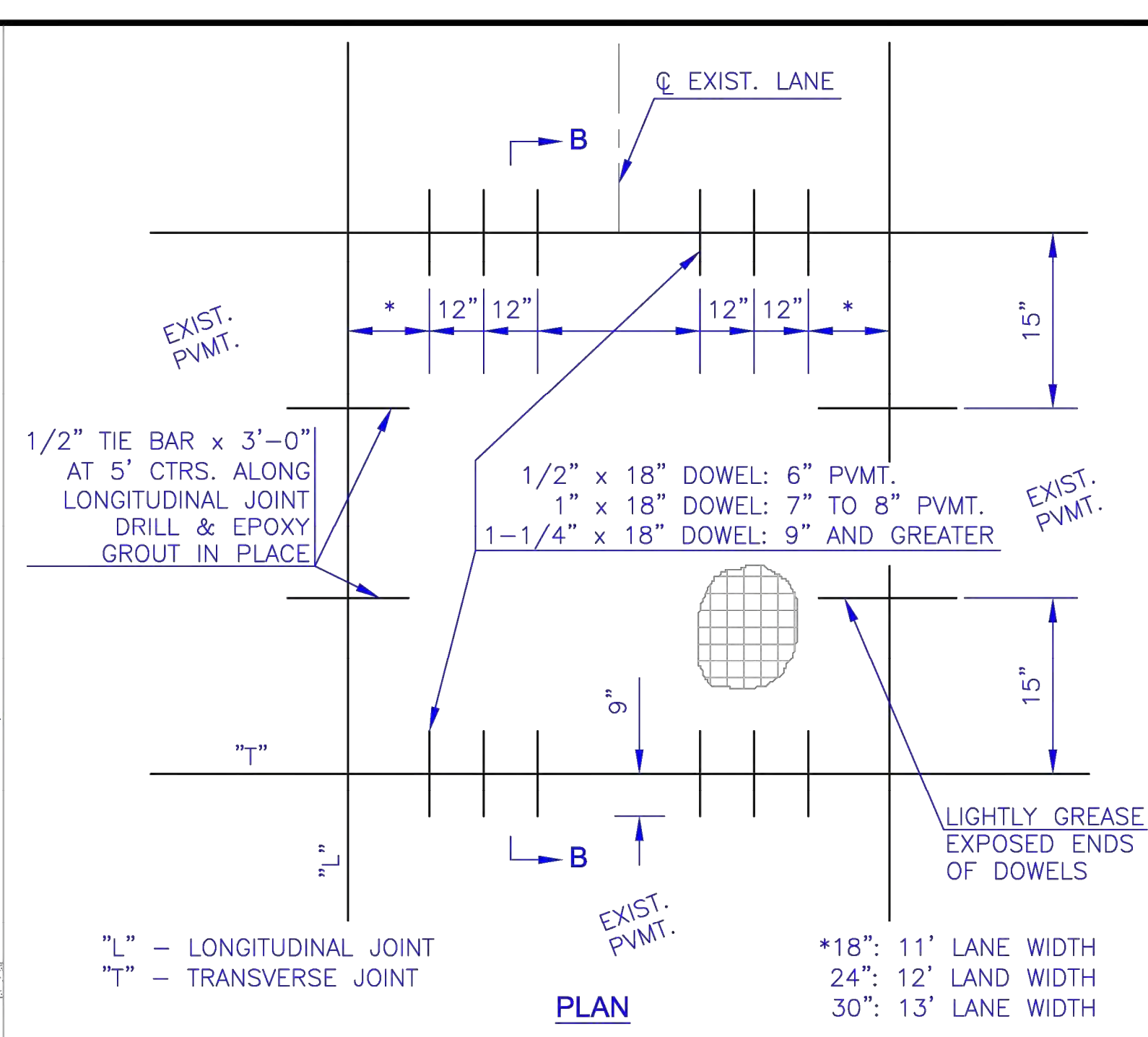
1. THE TOP OF THE MONUMENTATION WITHIN THE MONUMENT BOX WILL BE BELOW THE BOTTOM OF THE MONUMENT BOX AND PAVEMENT ELEVATION TO ACCOMMODATE FREE PAVEMENT MOVEMENT WITHOUT DISPLACEMENT OF THE MONUMENT. ALL MONUMENTS IN CONCRETE WILL BE PLACED IN SUCH A WAY THAT THE TOP OF CONCRETE IS A MINIMUM OF 3" CLEAR OF THE BOTTOM OF THE MONUMENT BOX AND PAVEMENT, TO ALLOW DRAINAGE PERCOLATION OF SURFACE SEEPAGE AWAY FROM THE BOX.
2. ALTERNATE INSTALLATION: 24" DIAMETER CORE DRILL CENTERED AROUND THE MONUMENT WITH #4 REBAR HOOPS MAINTAINING A 3" CLEARANCE FROM MONUMENT AND EDGE OF CONCRETE COLLAR.
3. CLAY AND BAILEY MFG. CO. COVER NO. 02193-01-1003 RING NO. 02193-01-2050 COMBINED WEIGHT 95 LBS.



NOTE: WHERE BANKS OR GROUPS OF POSTAL BANKS ARE TO BE INSTALLED, THEY SHALL BE A MINIMUM OF EIGHTY (80) FEET FROM THE INTERSECTION BACK OF CURB.

POSTAL BOX BANKS

NO.	DATE:	REVISION	BY:	APP'D
8	Oct. 2020	Updated cast iron monument box	JOT	BDF
7	Oct. 2017	Updated cast iron monument box	DHS	JPS
6	March 2013	Added grease to dowels & bar size to "	DHS	SB
5	Jan. 2013	Added Manhole Adjustment detail	DHS	SB
4	Jan. 2013	Removed Brick S/W & Stone Curb details	DHS	SB
3	Dec. 2012	Changed to tie bar from dowel	DHS	SB
2	Dec. 2009	Dowel size & # pvmt range and curb det.	DHS	SB



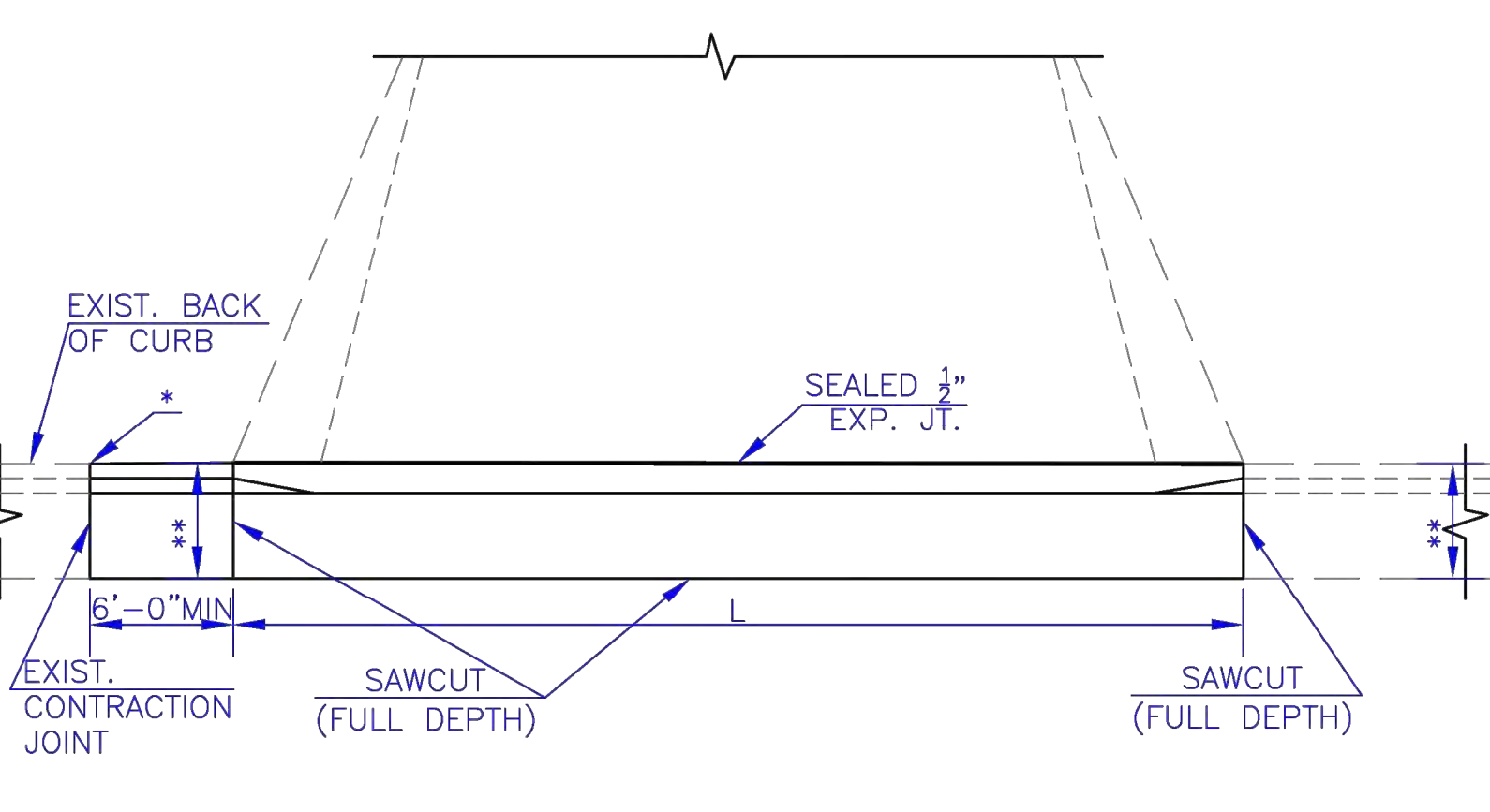
FULL PANEL REPAIR & UTILITY CUTS FOR CONCRETE PAVEMENT

NOTES:

1. ALL MATERIAL AND METHODS SHALL BE IN ACCORDANCE WITH CITY OF TOPEKA STANDARD TECHNICAL SPECIFICATIONS, LATEST EDITION.
2. DOWEL HOLE SIZE = O.D. OF DOWEL + 1/8".
3. EPOXY GROUTING PER SEC. 830, KDOT STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.

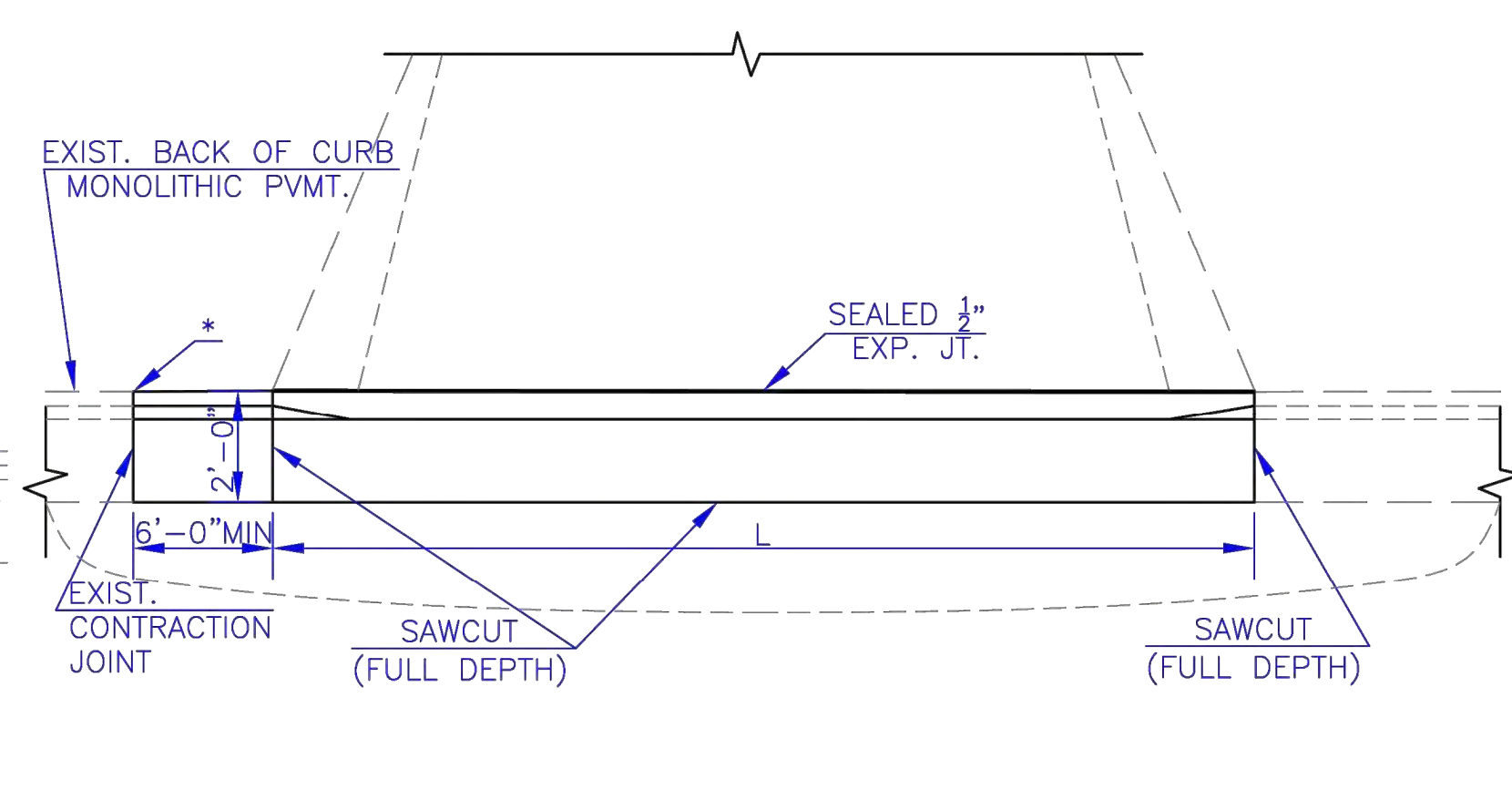
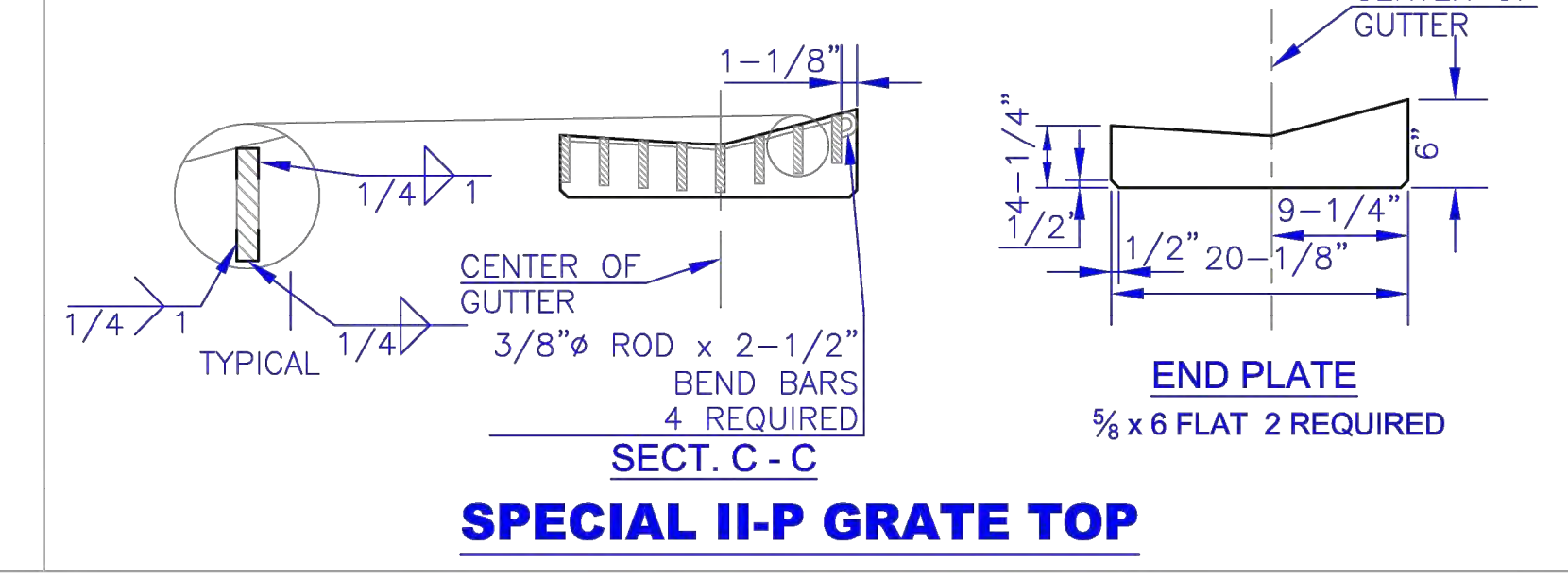
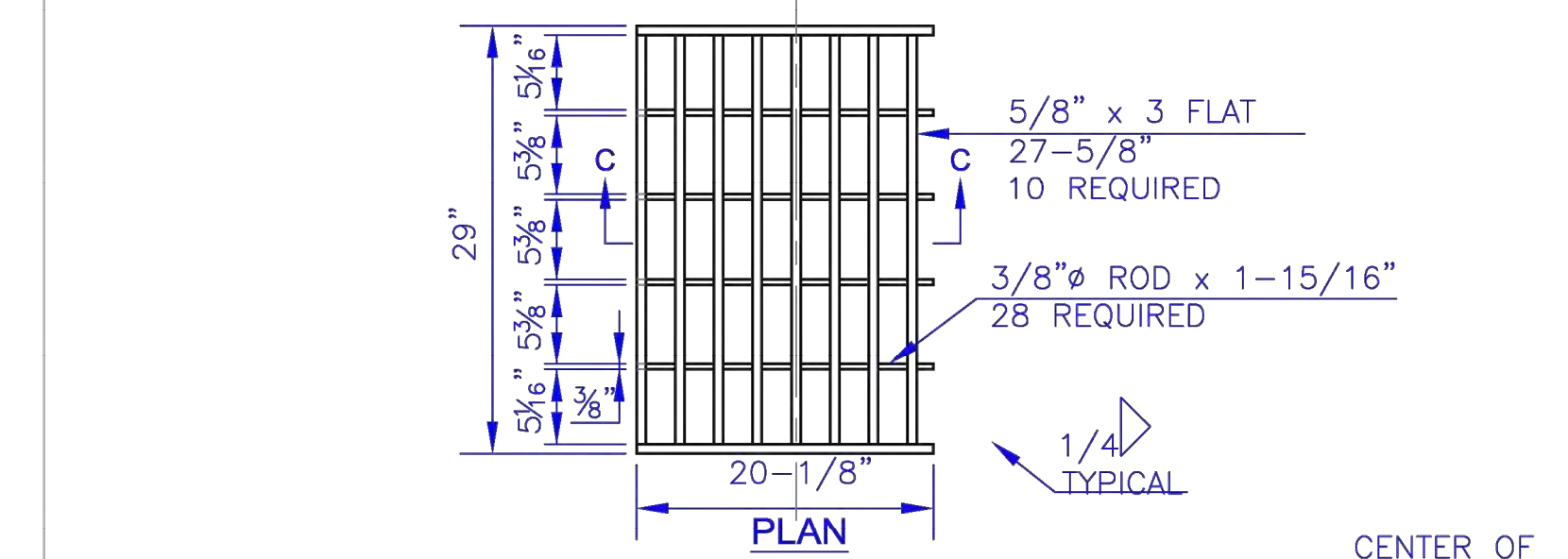
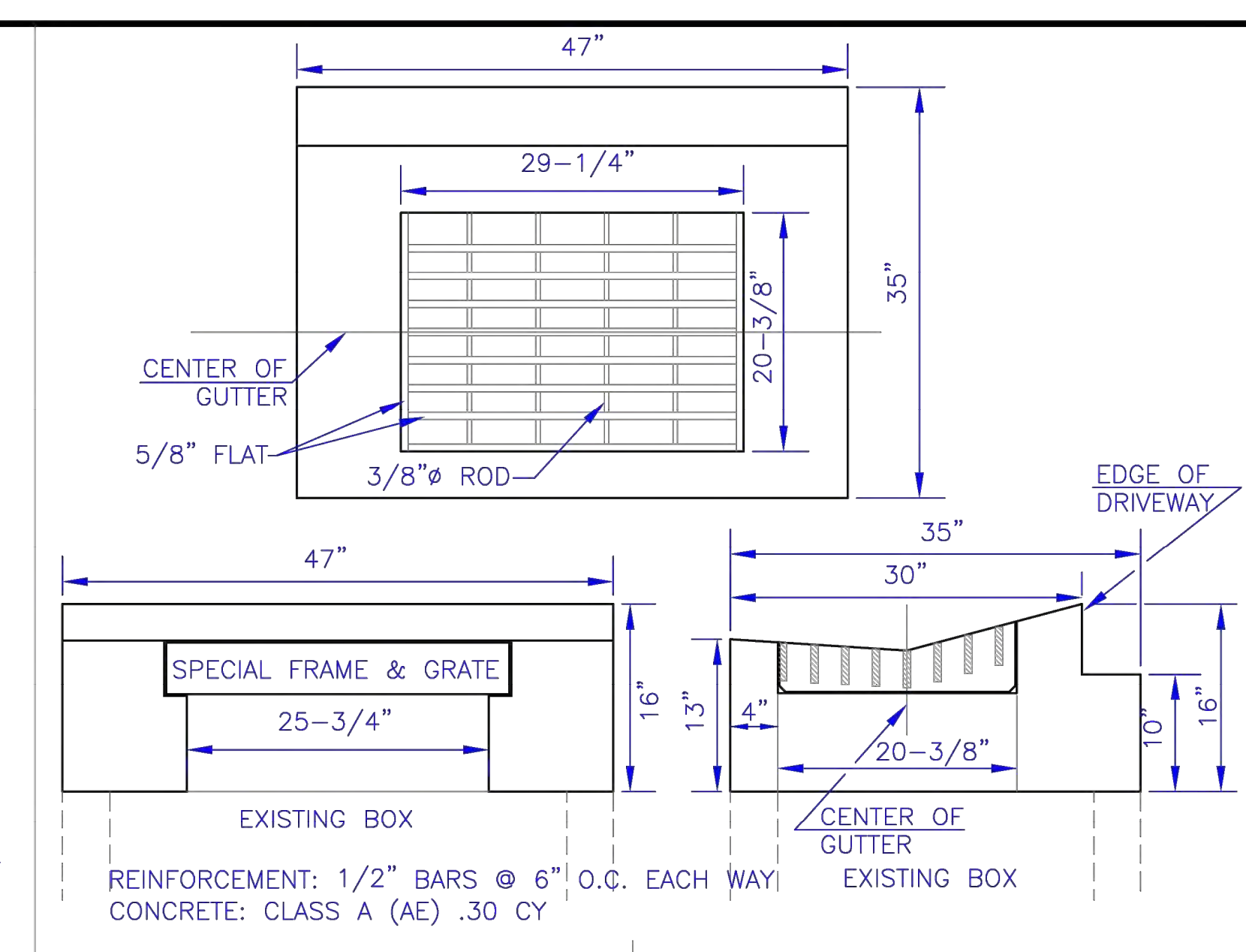
*18": 11' LANE WIDTH
24": 12' LANE WIDTH
30": 13' LANE WIDTH

"L" - LONGITUDINAL JOINT
"T" - TRANSVERSE JOINT



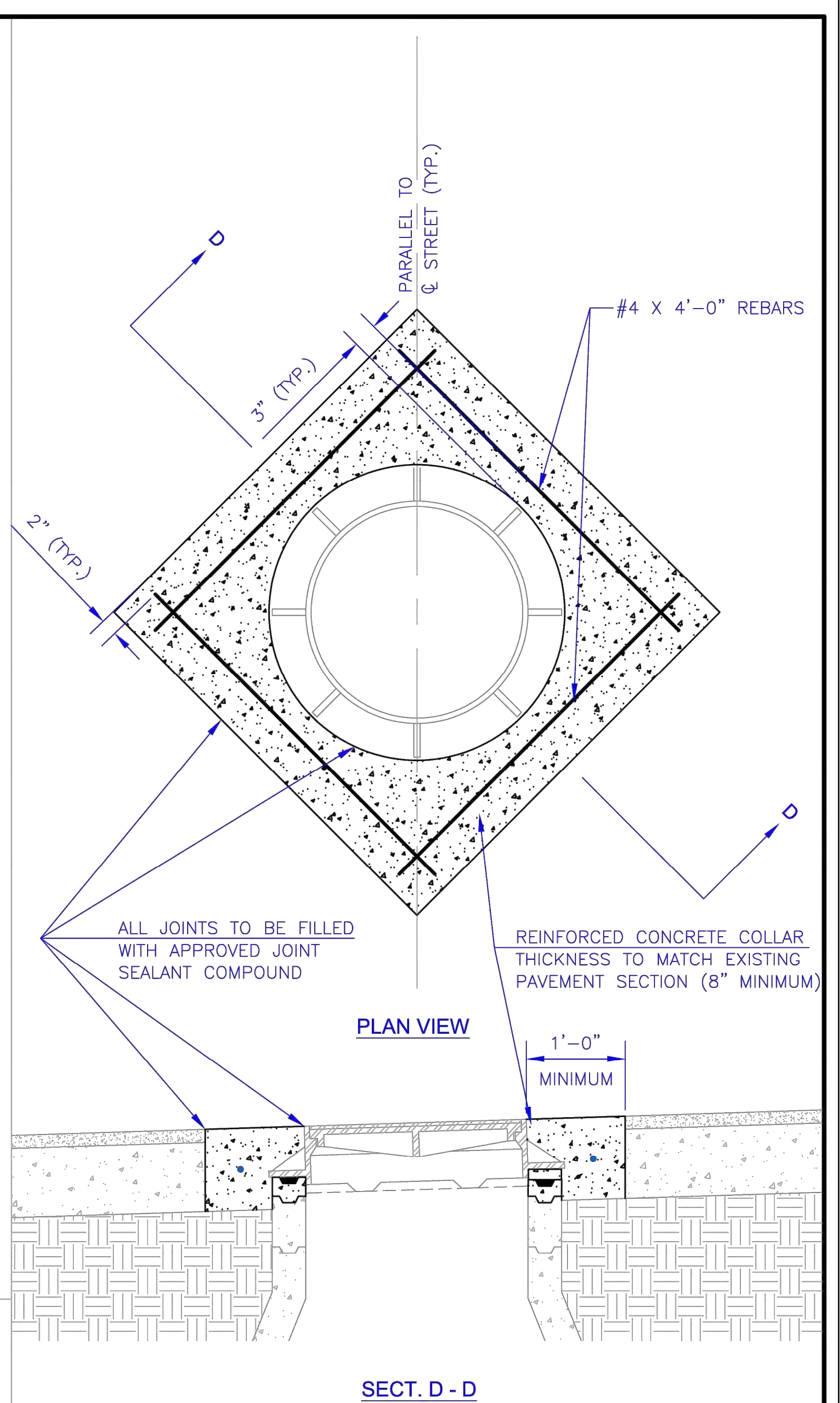
PAVEMENT WITH CURB & GUTTER

** MATCH EXISTING CURB WIDTH.



MONOLITHIC CONCRETE PAVEMENT WITH INTEGRAL CURB

* IF CURB AND GUTTER TO BE REMOVED IS WITHIN 6'-0" OF AN EXISTING JOINT, REMOVE CURB AND GUTTER BACK TO EXISTING JOINT.
L - PER CITY STANDARD DESIGN CRITERIA.



MANHOLE ADJUSTMENT

NOTES:

1. PAVEMENT SHALL BE REMOVED BY FULL DEPTH SAW CUTTING WHILE PROTECTING NEW PAVEMENT.
2. THE ORIENTATION OF THE REINFORCED CONCRETE COLLAR SHALL BE AS SHOWN OR FIELD DETERMINED BY ENGINEER.
3. ADJUST MANHOLE RING TO MATCH PAVEMENT CROSS SLOPE USING APPROVED CONCRETE MANHOLE GRADE ADJUSTMENT RINGS AND CONCRETE BLOCKS OR APPROVED HIGH-DENSITY POLYETHYLENE MANHOLE ADJUSTMENT RINGS.
4. SET MANHOLE RING WITH 2 RINGS OF 3/4" PREFORMED MASTIC SEALANT.
5. ALL TIME AND MATERIAL NECESSARY TO PERFORM THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THIS BID ITEM "MANHOLE ADJUSTMENT".

MISCELLANEOUS DETAILS I (DT-017)

DATE: FEBRUARY 2026
SHEET: 21 OF 36
PROJ.: 841201.02 221114-000

8	Oct. 2020	Updated cast iron monument box	JOT	BDF
7	Oct. 2017	Updated cast iron monument box	DHS	JPS
6	March 2013	Added grease to dowels & bar size to "	DHS	SB
5	Jan. 2013	Added Manhole Adjustment detail	DHS	SB
4	Jan. 2013	Removed Brick S/W & Stone Curb details	DHS	SB
3	Dec. 2012	Changed to tie bar from dowel	DHS	SB
2	Dec. 2009	Dowel size & # pvmt range and curb det.	DHS	SB

DRAWN BY: *jt/rm*

APP'D BY: _____

SHAWNEE COUNTY, KANSAS PUBLIC WORKS DEPARTMENT

1515 NW SALINE
TOPEKA, KS 66618
(785) 233-7702

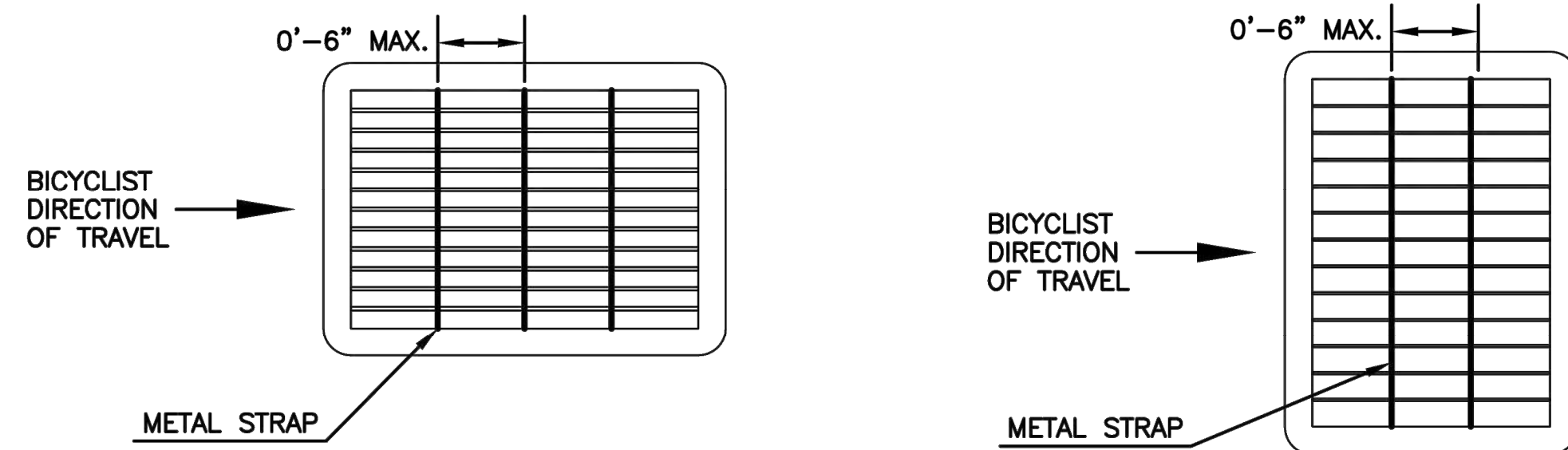
TOPEKA Public Works ENGINEERING

620 SE MADISON St. + 2nd Floor + TOPEKA, KS 66607
Phone: (785) 368-3842 + Fax: (785) 368-3881

STANDARD DETAILS

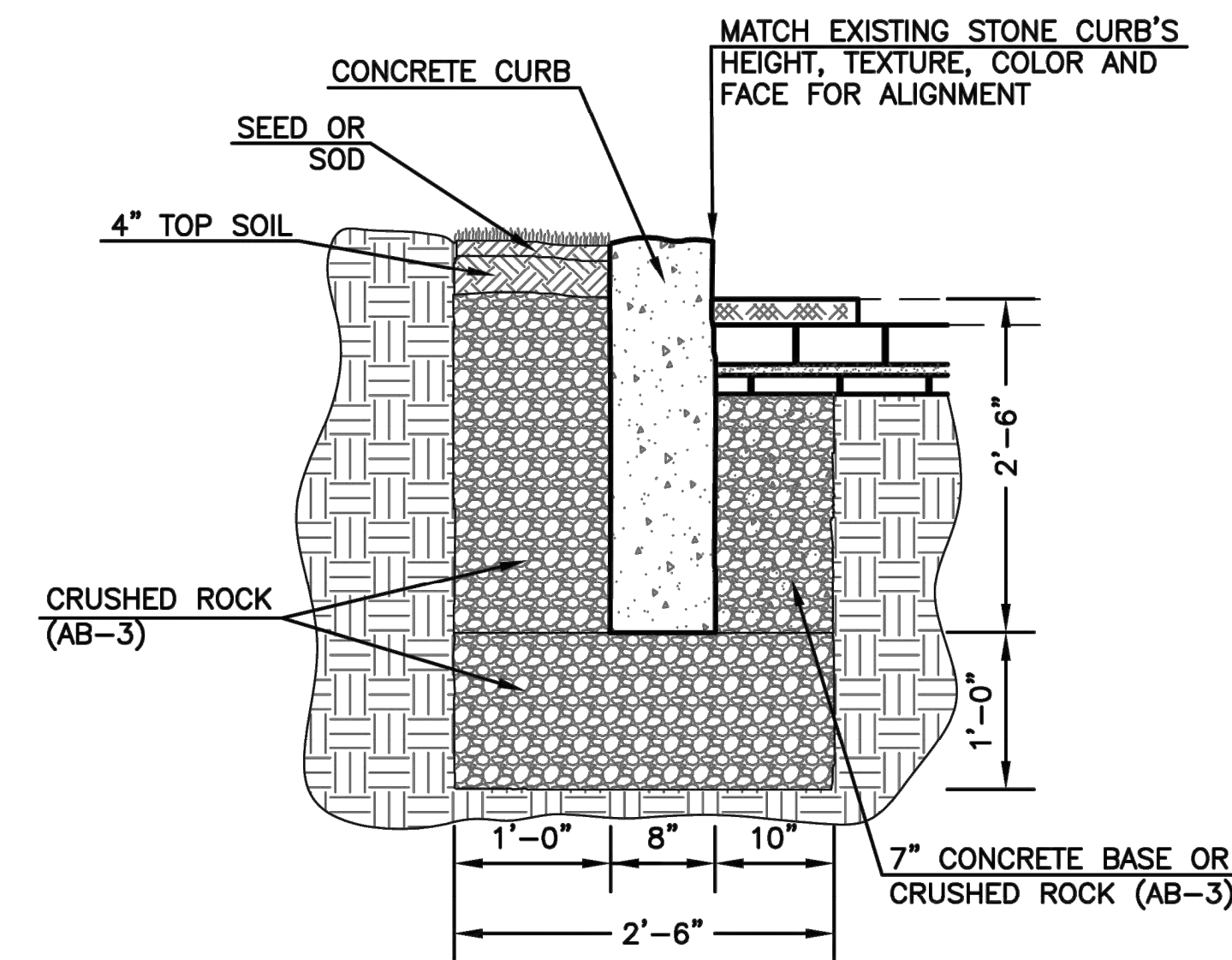
MISCELLANEOUS DETAILS I (DT-017)

DATE: FEBRUARY 2026
SHEET: 21 OF 36
PROJ.: 841201.02
221114-000



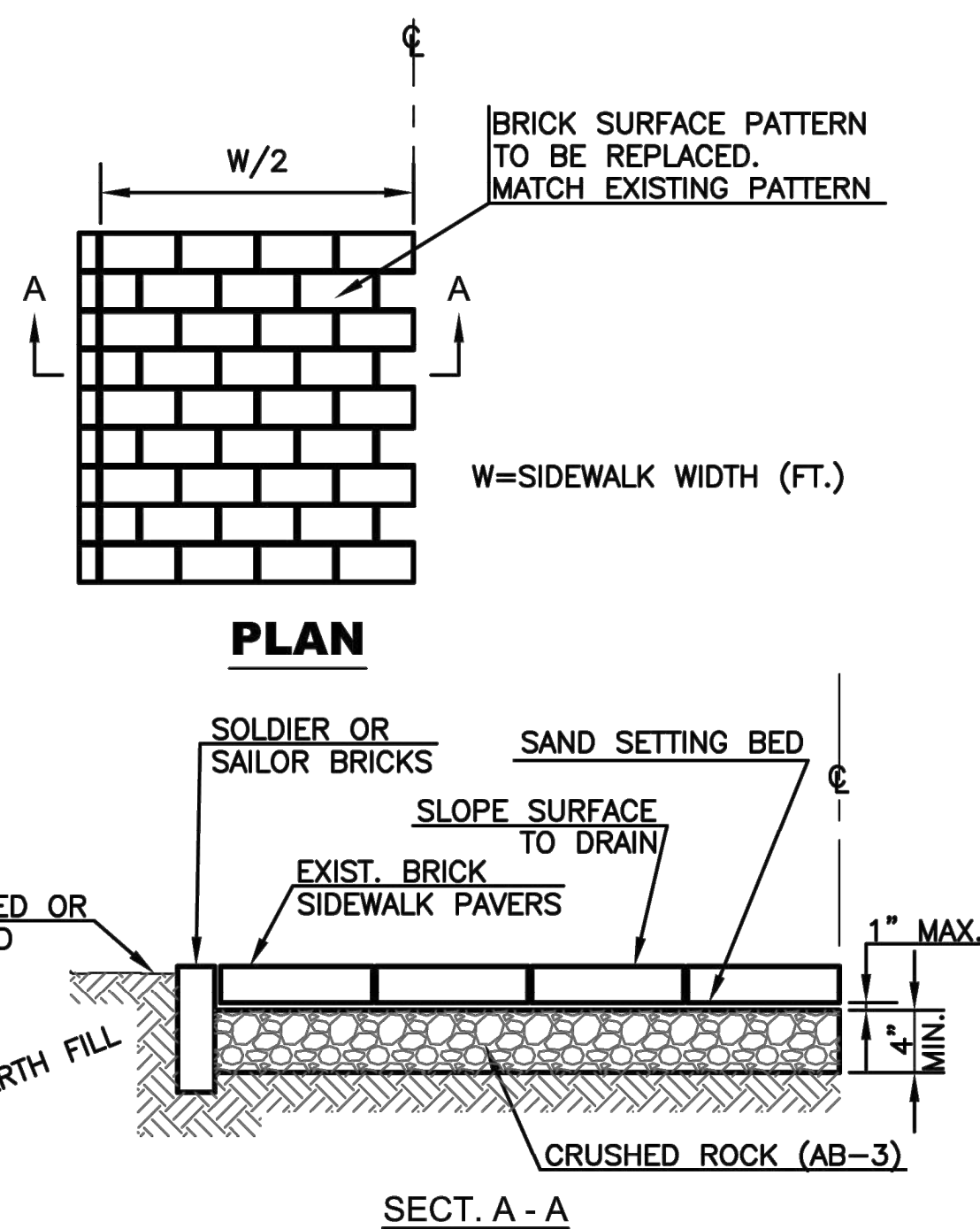
- NOTES:
1. THIS MODIFICATION IS NECESSARY ON STORM INLET GRATES THAT HAVE EITHER NO BARS THAT ARE PERPENDICULAR TO A BICYCLIST'S DIRECTION OF TRAVEL OR ONES THAT ARE PERPENDICULAR TO THE DIRECTION OF TRAVEL BUT ARE GREATER THAN 0'-6" APART.
 2. THIN METAL STRAPS SHALL BE WELDED ACROSS THE GRATE PERPENDICULAR TO THE DIRECTION OF TRAVEL WITH SPACING NO GREATER THAN 0'-6".

RETROFIT INLET GRATE FOR BICYCLIST SAFETY



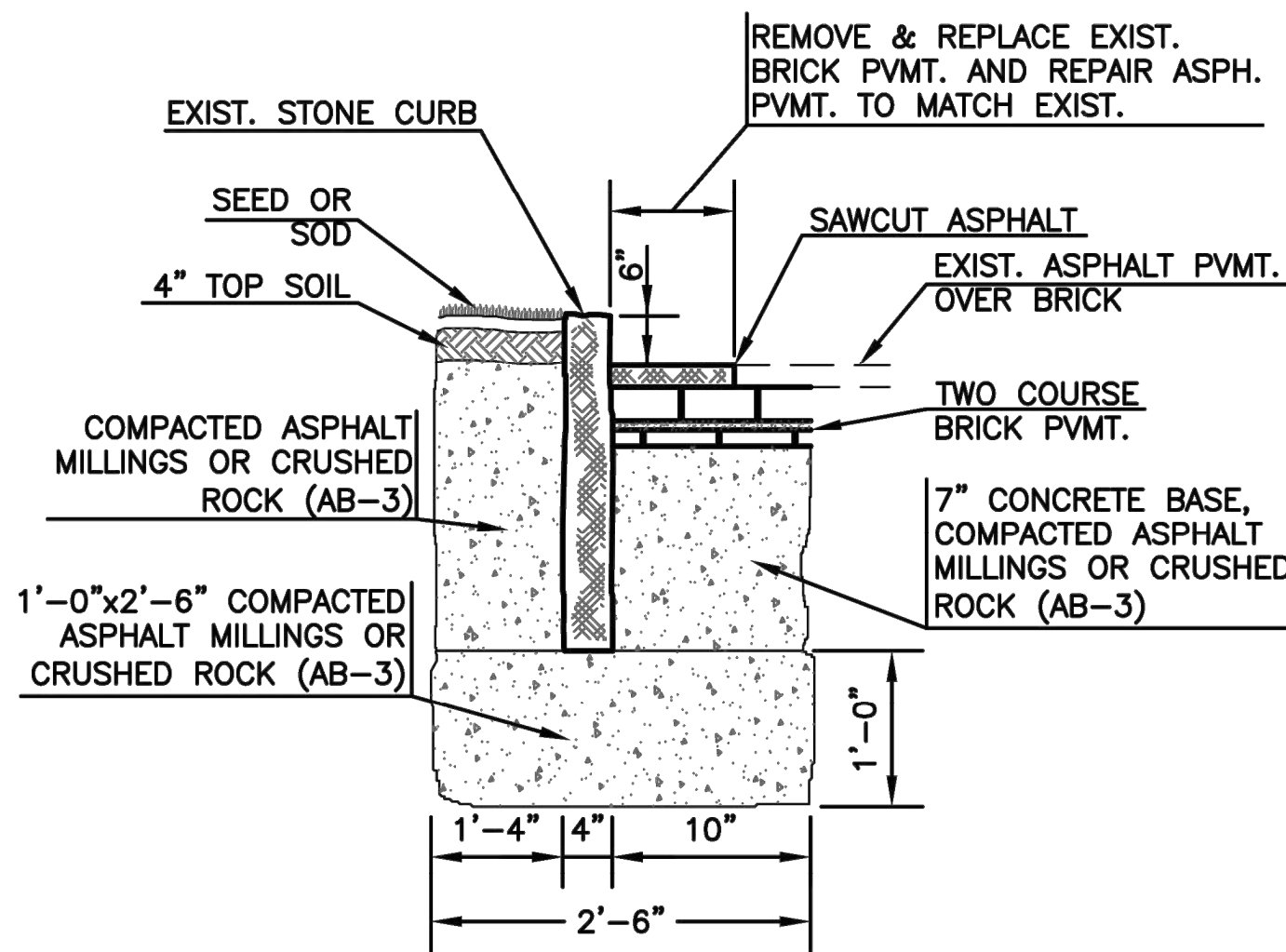
- NOTES:
1. EXCAVATE TO LIMITS SHOWN AND PLACE 1'x2'-6" COMPACTED BASE OF CRUSHED ROCK (AB-3).
 2. CONSTRUCT JOINTS AT 20' CENTERS MAXIMUM.
 3. AFTER PLACEMENT STABILIZE BACK OF CURB WITH CRUSHED ROCK (AB-3) AND ADD PAVEMENT BASE OF 7" CONCRETE OR COMPACTED CRUSHED ROCK (AB-3).

REPLACEMENT OF STONE CURB WITH MATCHING CONCRETE CURB



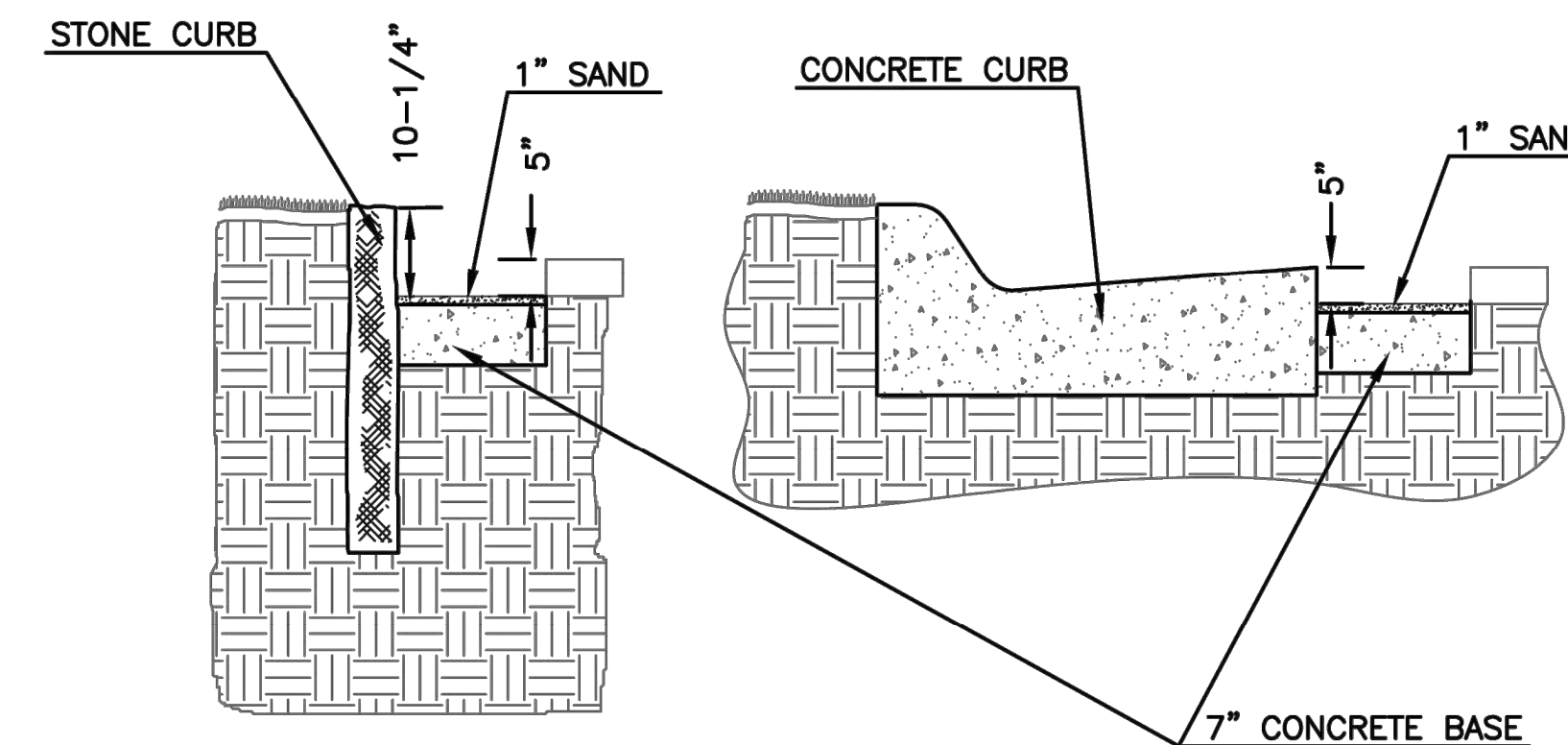
- NOTES:
1. REMOVE EXISTING BRICK SIDEWALK PAVERS AND EXCAVATE TO SUBGRADE BRICK PAVER THICKNESS PLUS 5 INCHES.
 2. PLACE CRUSHED ROCK (AB-3) AND COMPACT WITH A VIBRATING PLATE COMPACTOR TO A THICKNESS OF 4 INCHES (MINIMUM).
 3. PLACE CONCRETE SAND SETTING BED AND COMPACT WITH A VIBRATING PLATE COMPACTOR TO A MAXIMUM THICKNESS OF 1 INCH.
 4. REPLACE/INSTALL BRICK PAVERS AND EDGE PAVERS (SOLDIER OR SAILOR) AND SWEEP JOINTS COMPLETELY FULL WITH DRY SAND.

INSTALLATION/REPLACEMENT BRICK SIDEWALK PAVERS



- NOTES:
1. REMOVE EXISTING CURB - SALVAGE STONE FOR REUSE.
 2. SALVAGE BRICK PAVERS AND SIDEWALK BRICK FOR REUSE.
 3. EXCAVATE TO LIMITS SHOWN AND PLACE 1'x2'-6" COMPACTED BASE (ASPHALT MILLINGS OR CRUSHED ROCK (AB-3)).
 4. SET STONE CURBS TO LINE AT GRADE SHOWN AND STABILIZE CURBS WITH COMPACTED ASPHALT MILLINGS OR CRUSHED ROCK (AB-3). FINISHED CURB SHALL BE 6" HIGH WITH A MAXIMUM TOLERANCE OF 1"±. CURB STONES SHALL MATCH JOINT TO JOINT ±1/2". CURB STONES SHALL BE SET IN MAXIMUM LENGTHS OF 3', MINIMUM LENGTHS OF 2', EXCEPT AT A SINGLE POINT OF CLOSURE ON SIDEWALK CUTS.
 5. REPLACE BRICK STREET PAVERS AT LOCATIONS WHERE CONCRETE CURB AND GUTTER ARE REMOVED. BRICK PAVEMENT SHALL BE RESTORED AS SHOWN ABOVE. BRICK PAVERS SHALL BE PROVIDED BY THE CONTRACTOR TO MATCH THE EXISTING PAVERS.
 6. REPAIR STREET SURFACE TO MATCH EXISTING. IF EXISTING IS AN ASPHALT OVERLAY, REPAIR TO MATCH EXISTING WITH ASPHALTIC CONCRETE IN ACCORDANCE WITH CITY STANDARD TECHNICAL SPECIFICATIONS, LATEST EDITION.

TYPICAL STONE CURB DETAIL



- NOTES:
1. REMOVE BRICKS AND INSTALL CURB.
 2. PLACE 7" CONCRETE BASE AS SHOWN.
 3. PLACE 1" SAND AS SHOWN.
 4. RESET BRICKS.

INSTALLING CURB ADJACENT TO EXISTING BRICK PAVEMENT

NO.	DATE	REVISION	BY	APP'D
1	May 2014	Added Retrofit Inlet Grate Detail	DHS	SB

DRAWN BY: DHS
APP'D BY: SB



SHAWNEE COUNTY, KANSAS
PUBLIC WORKS DEPARTMENT
COUNTY ENGINEER
1515 NW SALINE
TOPEKA, KS 66618
(785) 233-7702



STANDARD DETAILS

MISCELLANEOUS
DETAILS III
(DT-022)

DATE: FEBRUARY 2026
SHEET: 22 OF 36
PROJ.: 841201.02
22114-000

7" REINFORCED CONCRETE		
STA. - STA.	QUANTITY (SY)	
10+35.25 - 14+00.00		689
14+00.00 - 15+53.99		291
TOTAL		980

8" NON-REINFORCED CONCRETE		
STA. - STA.	QUANTITY (SY)	
10+26.25 - 10+35.25		20
15+53.99 - 15+62.88		20
16+96.49 - 16+05.49		20
TOTAL		60

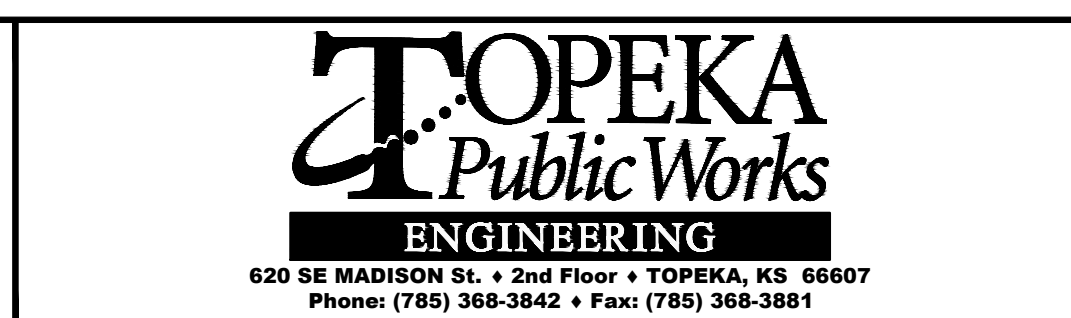
REMOVE & REPLACE CONCRETE SIDEWALK		
STA. - STA.	QUANTITY (SF)	
15+40.38 - 15+45.38		125
15+40.79 - 15+45.79		131
TOTAL		256

REMOVE & RESET CURB & GUTTER		
STA. - STA.	QUANTITY (LF)	
+10.00		37
15+63.99 - 15+65.99		37
15+93.49 - 15+95.49		37
TOTAL		111

REMOVE & RESET BRICK ROAD		
STA. - STA.	QUANTITY (SY)	
15+65.99 - 15+93.49		113
TOTAL		113

NO.	DATE:	REVISION

DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



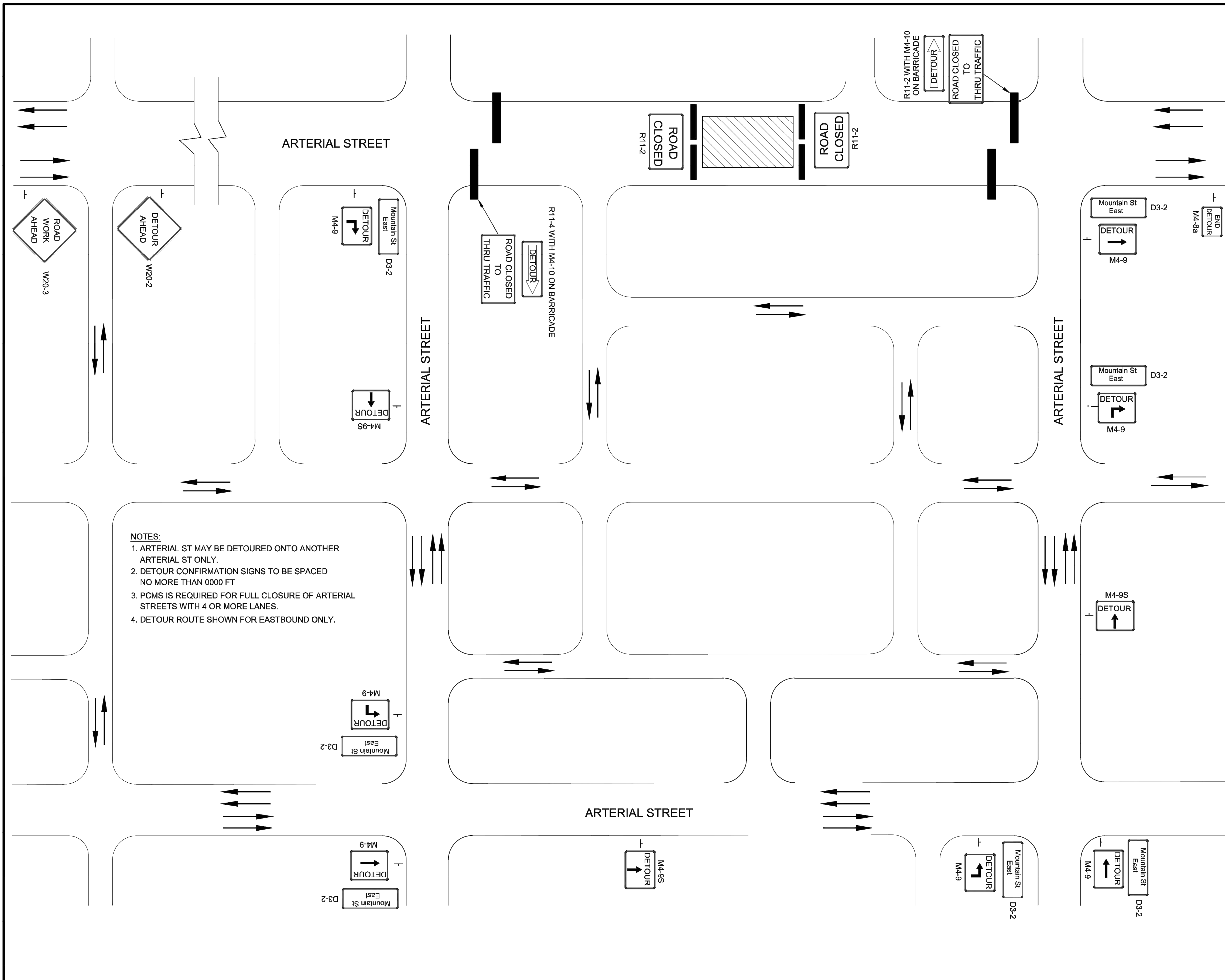
ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN
 WOODLAWN AVE AND GREENWOOD AVE

ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN
 WOODLAWN AVE AND GREENWOOD AVE

SUMMARY OF QUANTITIES

DATE: FEBRUARY 2026
 SHEET: 23 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



NOTES:
 1. ARTERIAL ST MAY BE DETOURED ONTO ANOTHER ARTERIAL ST ONLY.
 2. DETOUR CONFIRMATION SIGNS TO BE SPACED NO MORE THAN 0000 FT
 3. PCMS IS REQUIRED FOR FULL CLOSURE OF ARTERIAL STREETS WITH 4 OR MORE LANES.
 4. DETOUR ROUTE SHOWN FOR EASTBOUND ONLY.

GENERAL NOTES:

72-HOUR NOTICE TO CITY IS REQUIRED BEFORE WORK IS STARTED. CONTACT 785-368-3842 FOR TRAFFIC DISRUPTION PERMIT.

72-HOUR NOTICE IS REQUIRED IF TRAFFIC SIGNALS ARE TO BE MODIFIED AS PART OF TRAFFIC CONTROL. CONTACT 785-368-3913.

ALL SIGNS SHALL TO BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC WHEN NOT IN USE.

ALL WORKERS SHALL WEAR HIGH VISIBILITY APPAREL MEETING ANSI 107-2015 CLASS 2 OR 3.

FOR OPERATIONS OF LESS THAN 60 MINUTES, ALL SIGNS AND CHANNELIZING DEVICES MAY BE ELIMINATED IF A VEHICLE WITH HIGH INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS IS USED. VEHICLE WARNING FLASHERS SHALL NOT BE USED IN LIEU OF ROTATING FLASHING BEACONS LONGER THAN 15 MINUTES.

FORMULAS FOR DETERMINING TAPER LENGTH

SPEED (S)	TAPER LENGTH (L) IN FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE: L = TAPER LENGTH IN FEET
 W = WIDTH OF LANE OR OFFSET IN FEET
 S = POSTED SPEED LIMIT PRIOR TO WORK STARTING

SPEED LIMIT	TAPER (L) 12' LANE	SIGN SPACING (X)	BUFFER SPACE
20mph	80'	100'	115'
25mph	125'	100'	155'
30mph	180'	100'	200'
35mph	245'	100'	250'
40mph	320'	100'	305'
45mph	540'	350'	360'

TABLE 118 A (1)

EXCEPT AS NOTED (DOWNSTREAM TAPER, FLAGGER OPERATIONS, YIELD OPERATION), SPACE CHANNELIZER @ SPEED LIMIT. IF SPEED LIMIT IS 40mph SET DEVICES AT 40'.

LEGEND

- = SIGN
- = TYPE III BARRICADE
- = CHANNELIZING DEVICES
- ◀◀◀◀ = ARROW PANEL BOARD
- ▨ = WORK SPACE
- ⦿ = FLAGGER

NO.	DATE:	REVISION	BY:	APP'D
1	10/30/20	MAJOR REVISION	SU	KRE

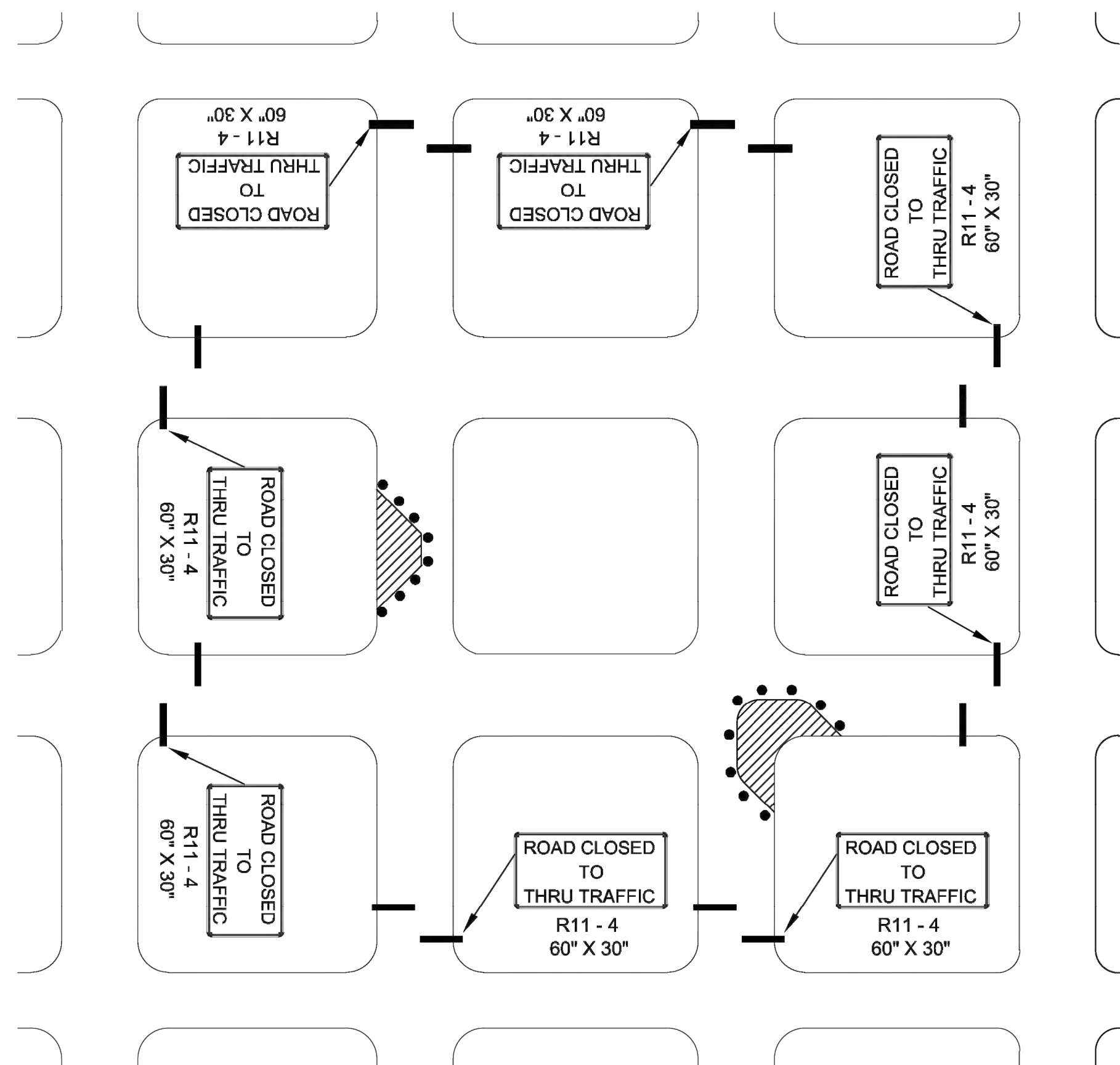
DRAWN BY: Shoeb Uddin
 APP'D BY: Kristi Erickson



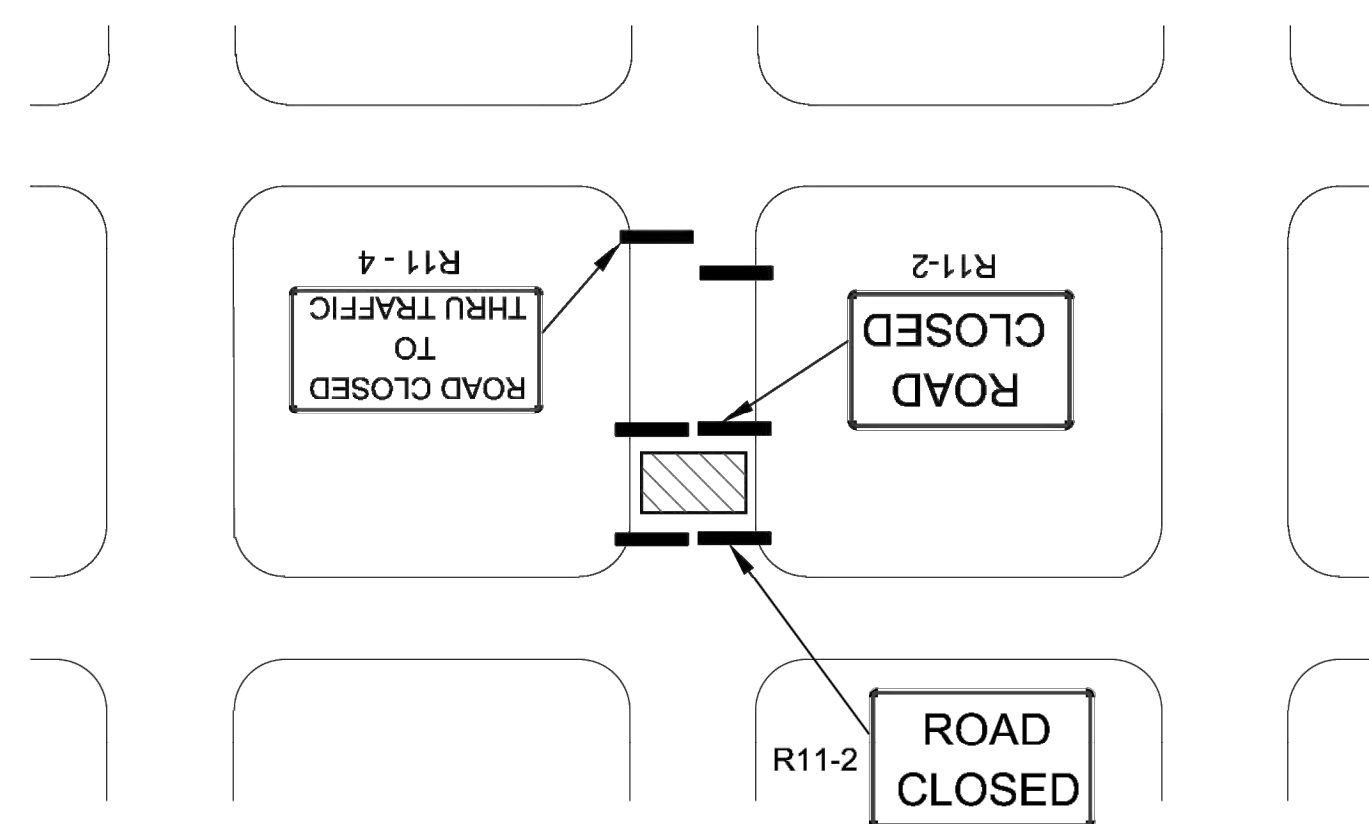
**STANDARD DETAILS
 DT - 118 A**

**TRAFFIC CONTROL
 Arterial Street Closure**

DATE: FEBRUARY 2026
 PAGE: 24 OF 36
 PROJECT: 841201.02
 221114-000

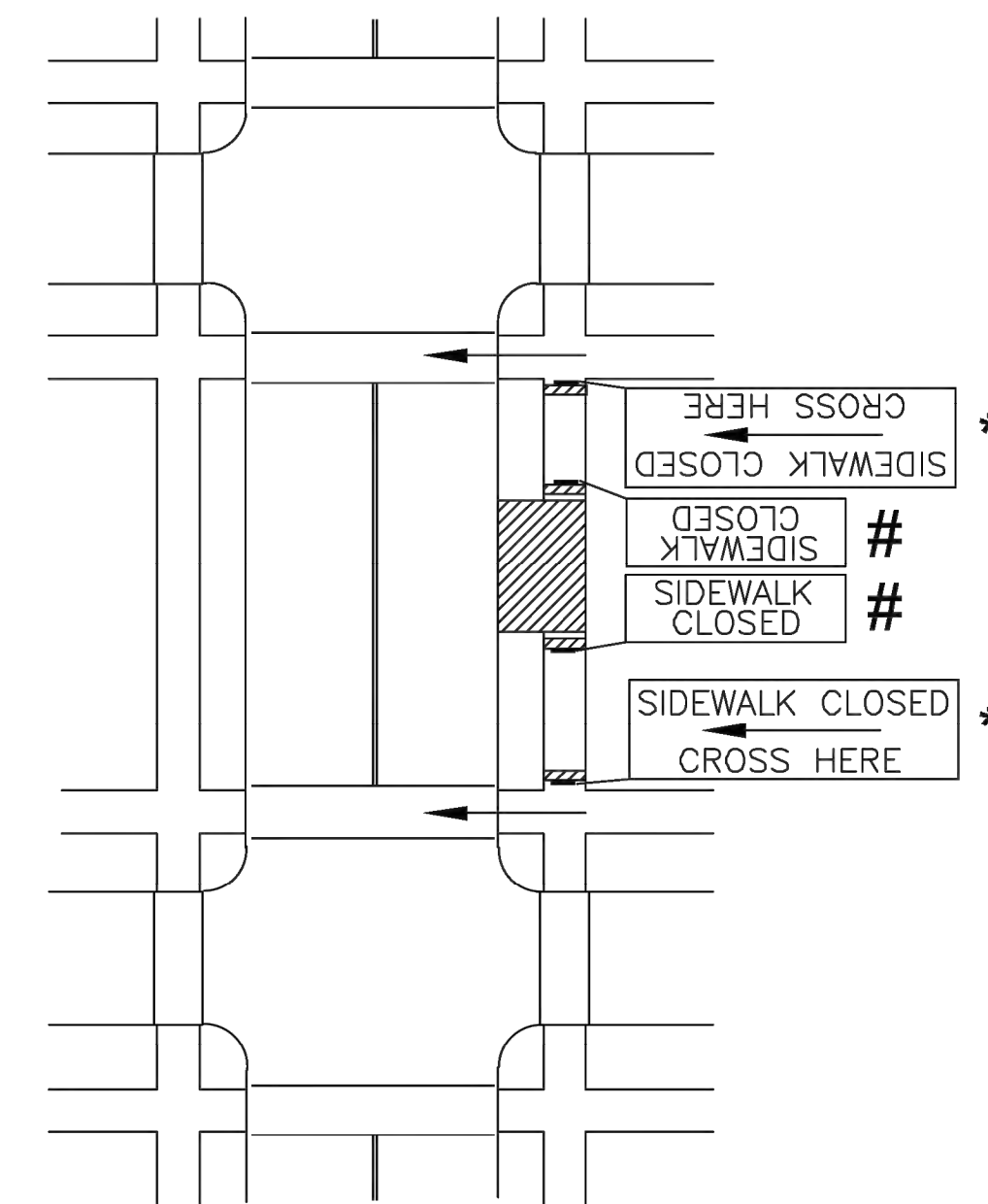


**FIGURE - 118 B (1)
CONSTRUCTION WORK ON RESIDENTIAL / LOCAL STREETS**

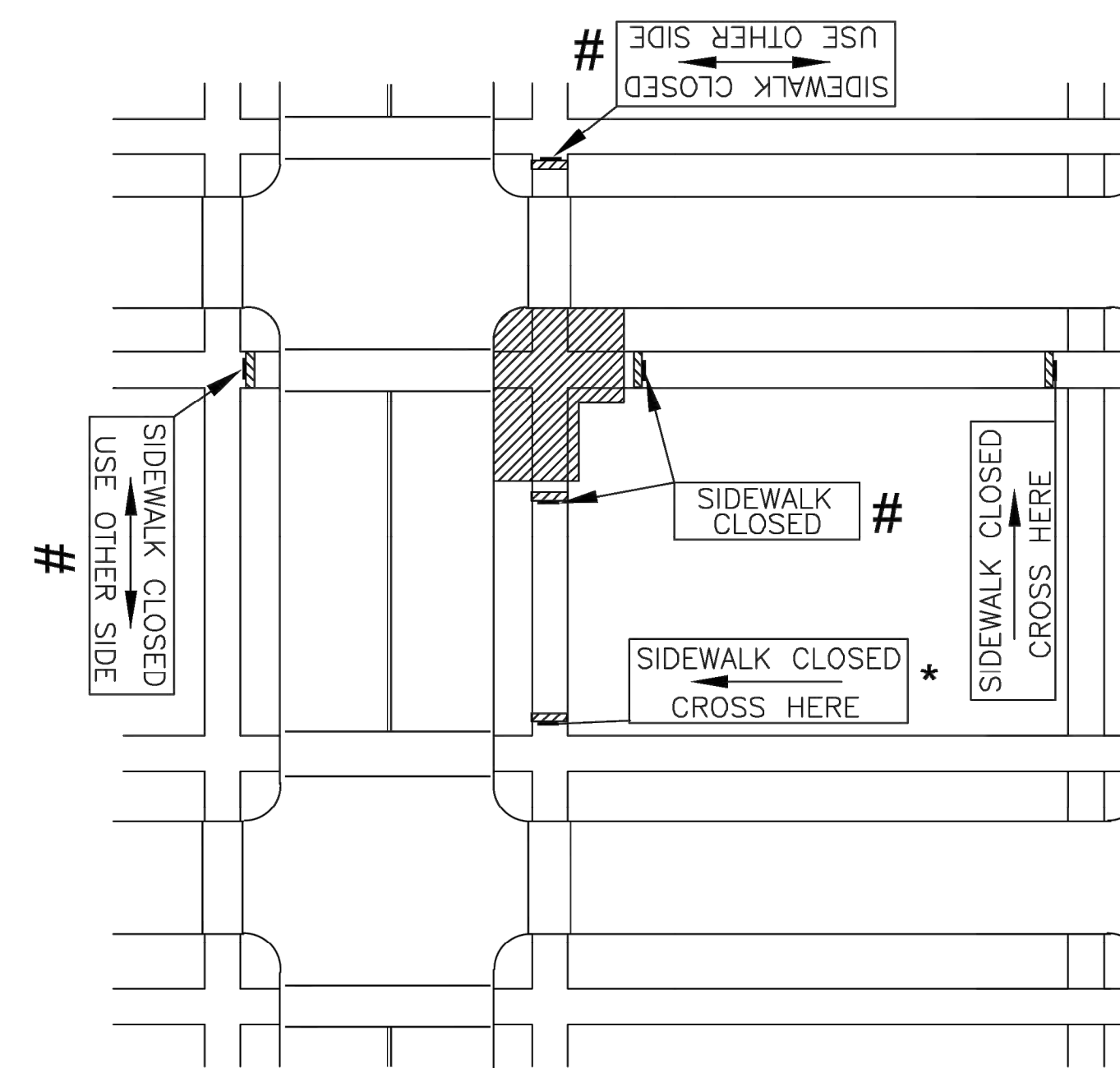


Need for Detour will be determined by the Engineer. Collector Streets cannot be detoured onto local or residential streets.

**FIGURE - 118 B (2)
CLOSURE OF RESIDENTIAL / LOCAL STREETS**



**FIGURE - 118 B (3)
MID-BLOCK SIDEWALK CLOSURE
WITH PEDESTRIAN DETOUR**



**FIGURE - 118 B (4)
CORNER SIDEWALK CLOSURE
WITH PEDESTRIAN DETOUR**

* ADVANCE SIGNS TO BE PLACED ON TYPE I OR TYPE II BARRICADES OR POST MOUNTED. PLACEMENT SHALL BE SUCH THAT SO THAT AT LEAST 48" OF SIDEWALK IS AVAILABLE FOR PEDESTRIAN USE.

SIGNS TO BE PLACED ON CONTINUOUS DETECTABLE DEVICES.

LEGEND	
—	= SIGN
▭ (with arrows)	= ARROW PANEL BOARD
▬	= TYPE III BARRICADE
▭ (with diagonal lines)	= WORK SPACE
○	= CHANNELIZING DEVICES
▭ (with vertical lines)	= FLAGGER

NO.	DATE	REVISION	BY	APP'D
1	10/20/30	MAJOR REVISION	SU	KRE

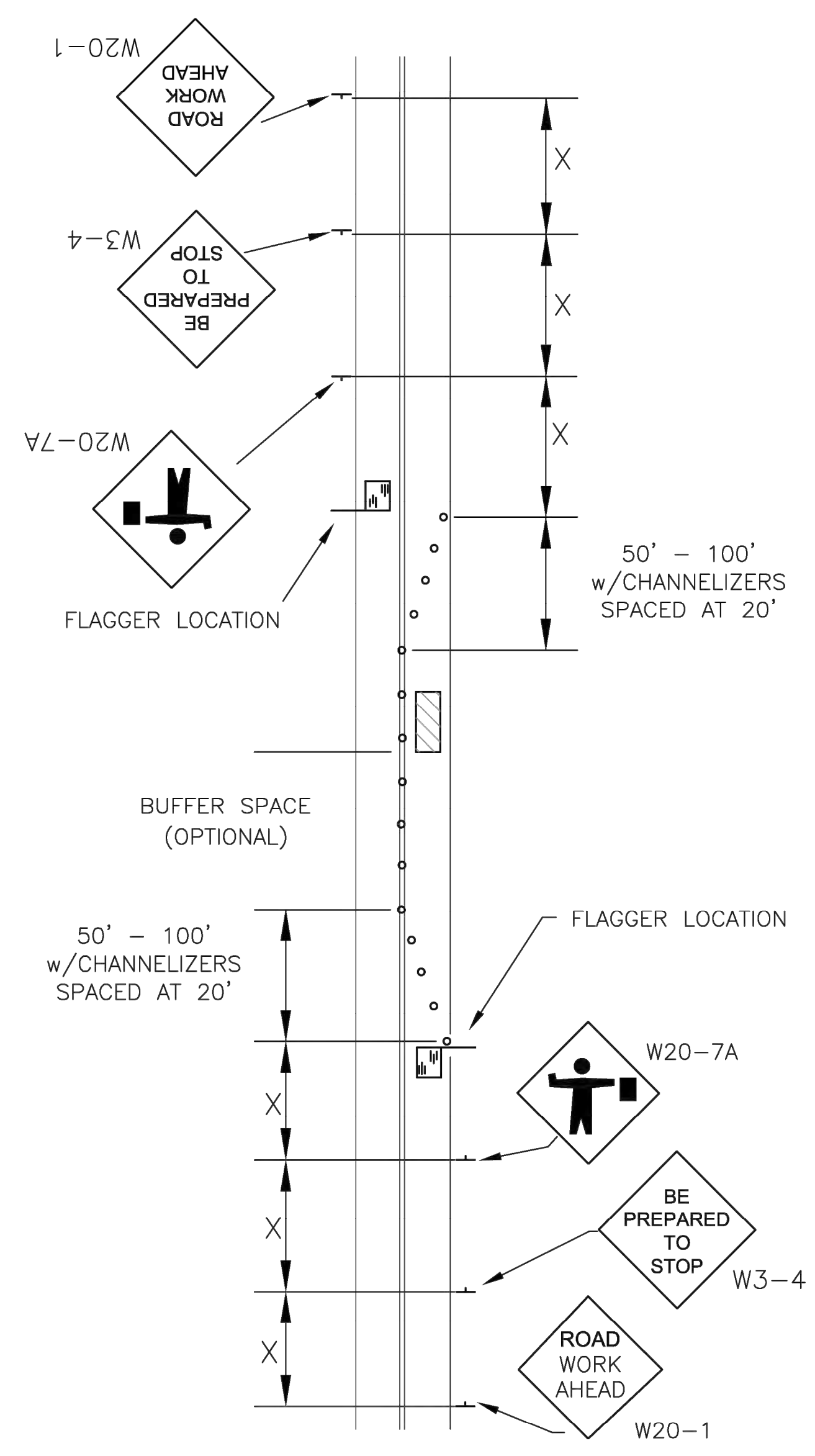
DRAWN BY: Shoeb Uddin
APP'D BY: Kristi Erickson



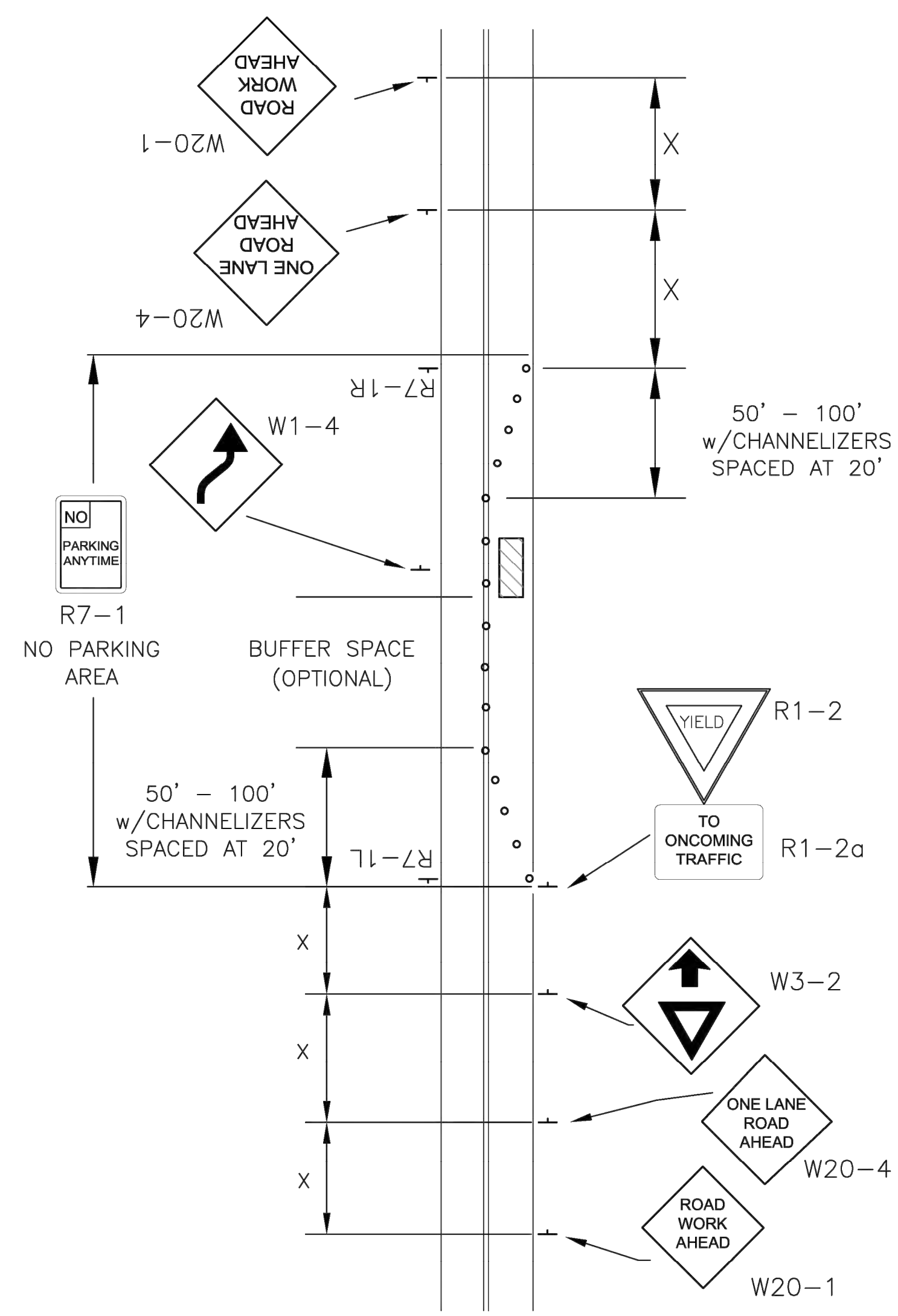
STANDARD DETAILS
DT - 118 B

TRAFFIC CONTROL
LOCAL STREET / SIDEWALK CLOSURES

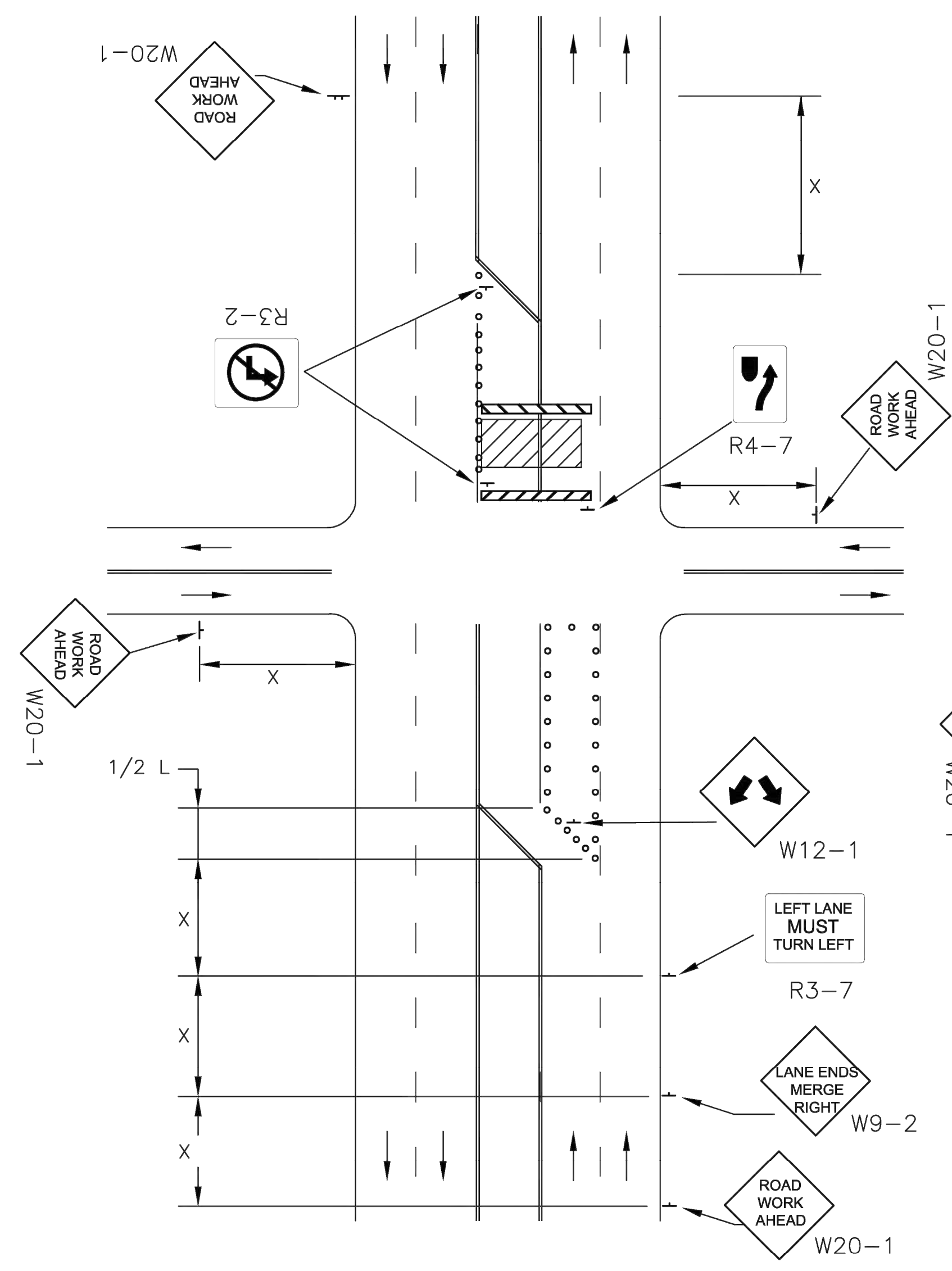
DATE: FEBRUARY 2026
PAGE: 25 OF 36
PROJECT: 841201.02
221114-000



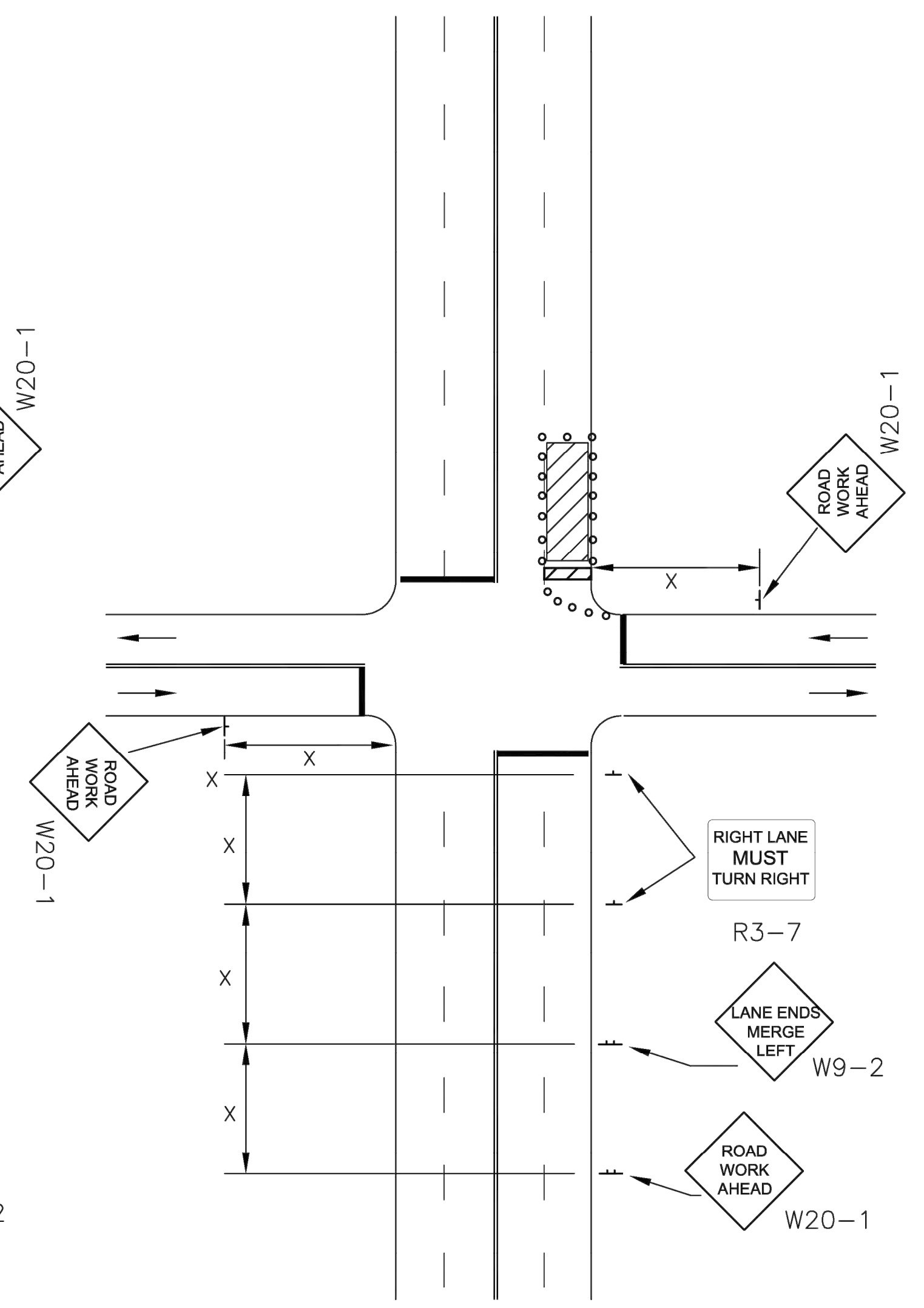
**LANE CLOSURE ON TWO-LANE ROAD
W/ FLAGGER, DAYTIME ONLY**



**LANE CLOSURE ON TWO-LANE ROAD
WITH LOW TRAFFIC VOLUMES
(PRIOR APPROVAL REQUIRED)**



**MULTIPLE LANE CLOSURE AT AN
INTERSECTION**



**RIGHT -HAND LANE CLOSURE ON THE
FAR SIDE OF AN INTERSECTION**

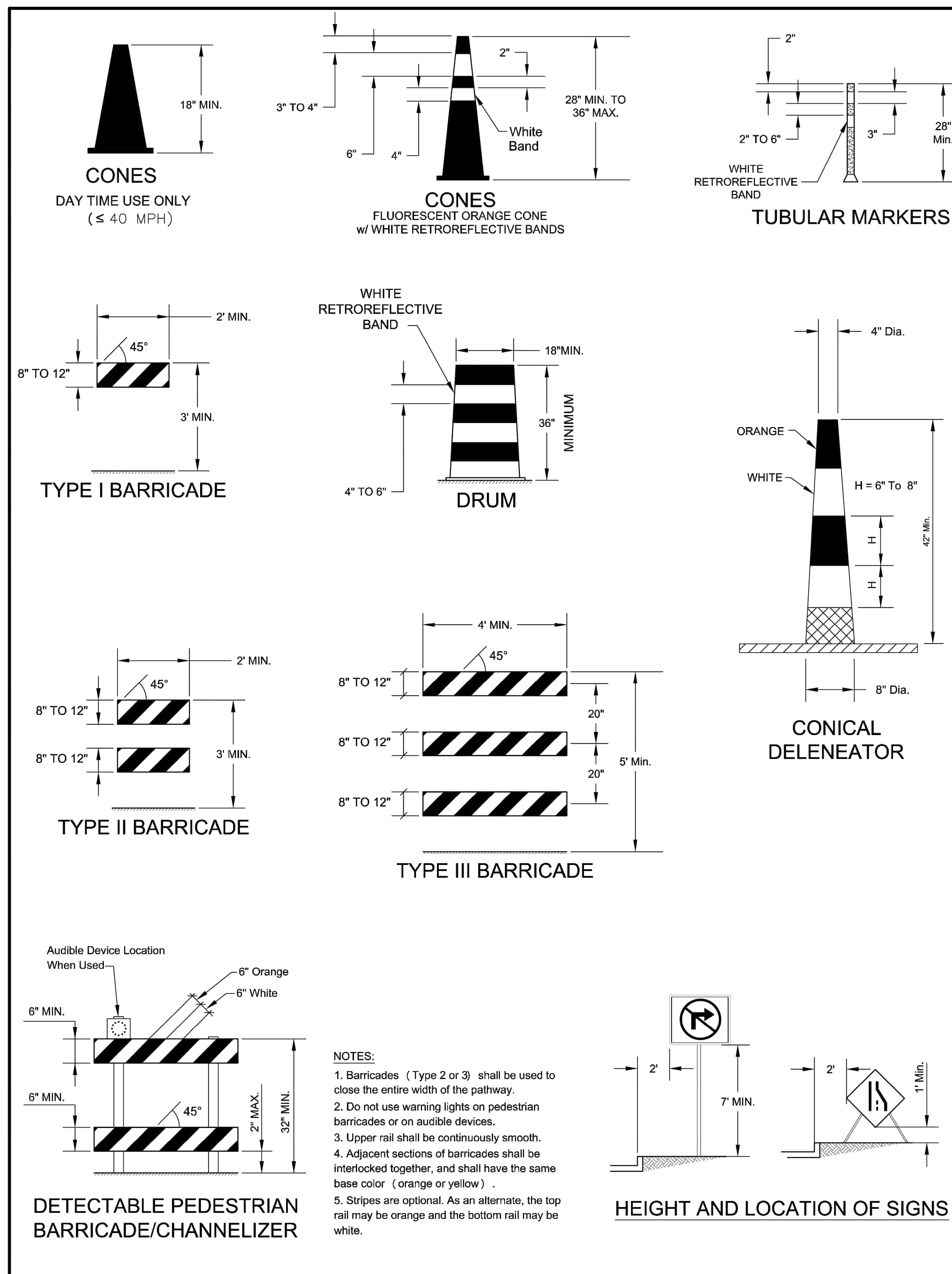
REFER TO SHEET DT-118 FOR TAPER LENGTH(L) AND SIGN SPACING(X) VALUES

NO.	DATE:	REVISION	BY:	APP'D
3	08/15/23	UPDATE W9-2 SIGN TEXT	AMR	
2	08/06/15	REMOVE W4-7 & REPLACE WITH W9-2	KAP	TLC
1	01/30/12	UPDATE SPECIFICATIONS	KAP	LGV

DRAWN BY: K.PELTON
APP'D BY: T. CODER

TOPEKA
Public Works
ENGINEERING
620 SE MADISON STREET - 2nd FLR. • TOPEKA, KS 66607
Phone: (785) 368-3842 • Fax: (785) 368-3881

TRAFFIC CONTROL	
DATE:	FEBRUARY 2026
PAGE:	26 OF 36
DRAWING:	DT-119
PROJ.	841201.02 221114-000



UNLESS OTHERWISE NOTED ALL WARNING SIGNS SHALL BE 36"x36"

Recapitulation of Traffic Control Quantities

Item	Quantity	Unit
Traffic Control	1	Lump Sum
Work Zone Information Signs		Each
Flashing or Sequencing Arrow Board		Each Week
Portable Changeable Message Sign		Each Week
Temporary Traffic Signal		Lump Sum
Temporary Pavement Marking (*) (**) (***)		LF
Surface Drop off Treatment		LF

(*) Type Pavement Marking: Type I, Type II, Masking
(**) Color
(***) Width

NO.	DATE	REVISION	SU	KRE	BY	APP'D
1	10/30/20	MAJOR REVISION				

DRAWN BY: Shoeb Uddin
APP'D BY: Kristi Ericksen

TOPEKA
Public Works
ENGINEERING
620 SE MADISON STREET - 2nd FLR. • TOPEKA, KS 66607
Phone: (785) 368-3842 • Fax: (785) 368-3881

STANDARD DETAILS
DT - 121A

TRAFFIC CONTROL
DEVICES AND RECAP OF QUANTITIES

DATE: FEBRUARY 2026
PAGE: 27 OF 36
PROJECT: 841201.02
221114-000

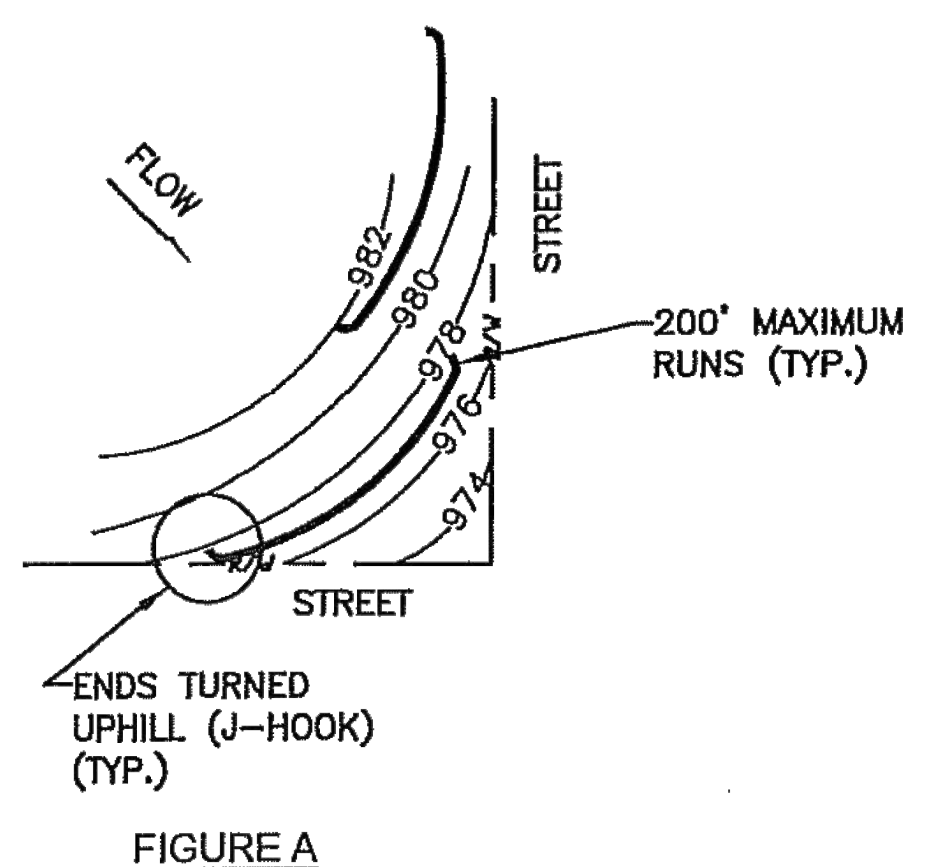
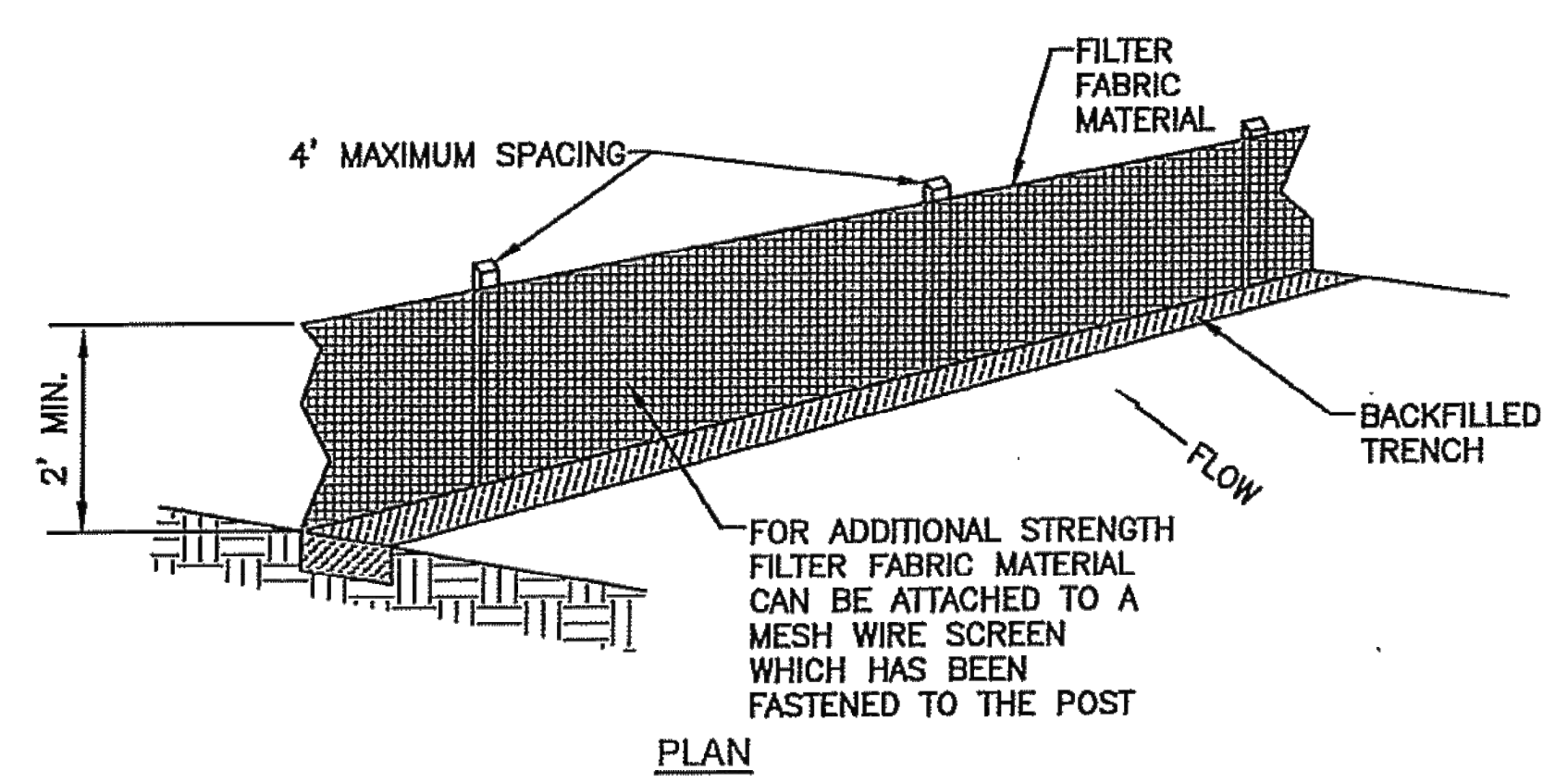
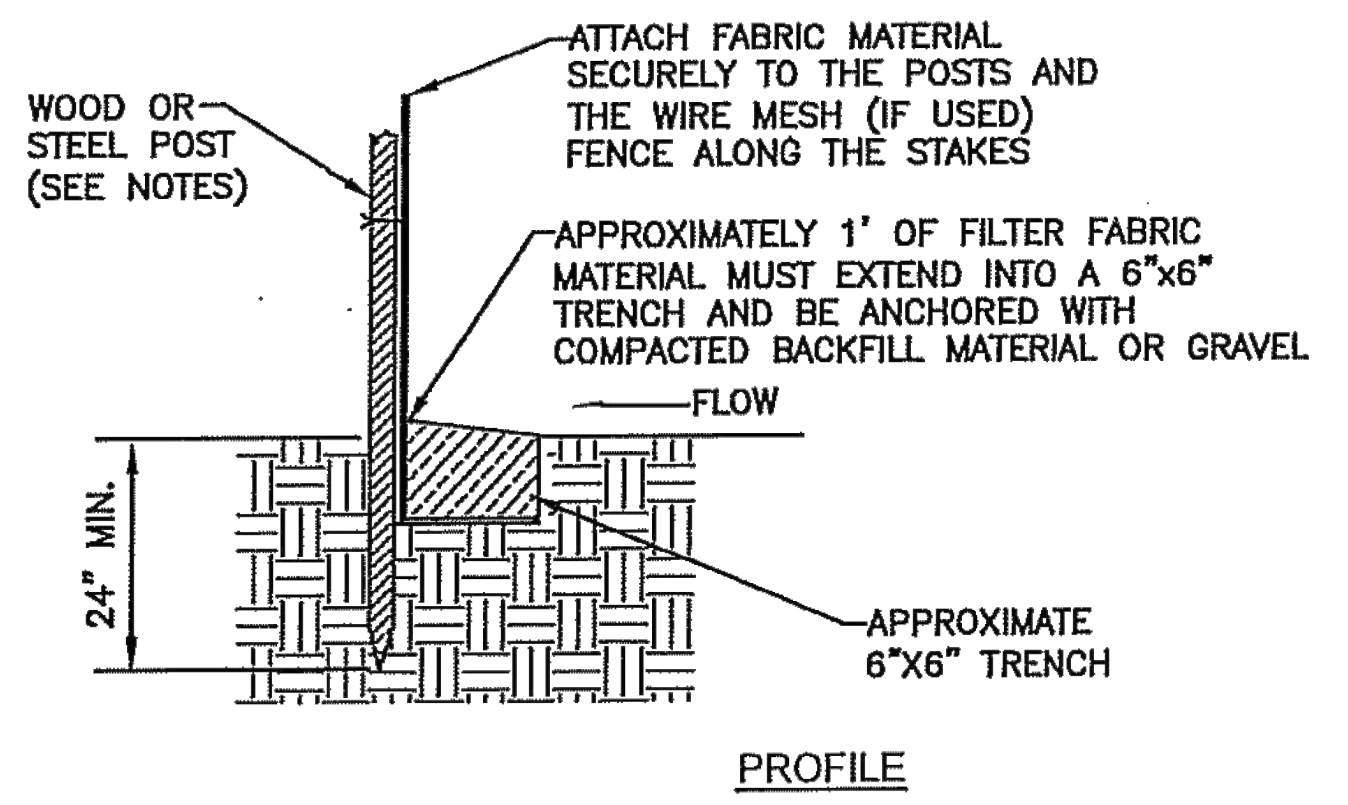


FIGURE A

Land Slope and Distance for Sediment Fence

Land Slope (percent)	Maximum Slope Distance* above Fence (feet)
Less than 2	100
2 to 5	75
5 to 10, greater than 10	50*

*Follow manufacturers' recommendations for proper spacing.



PROFILE

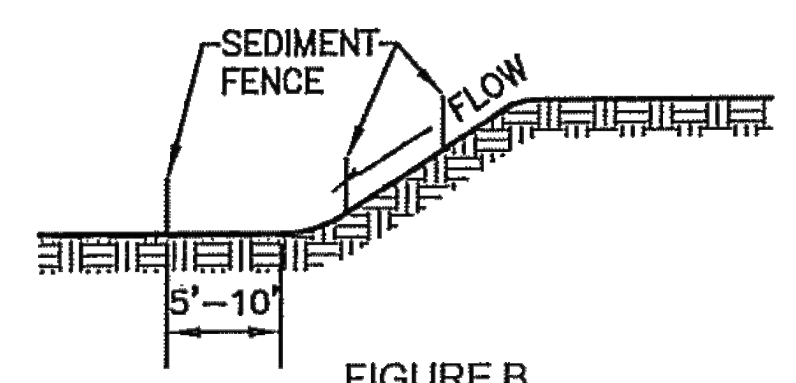
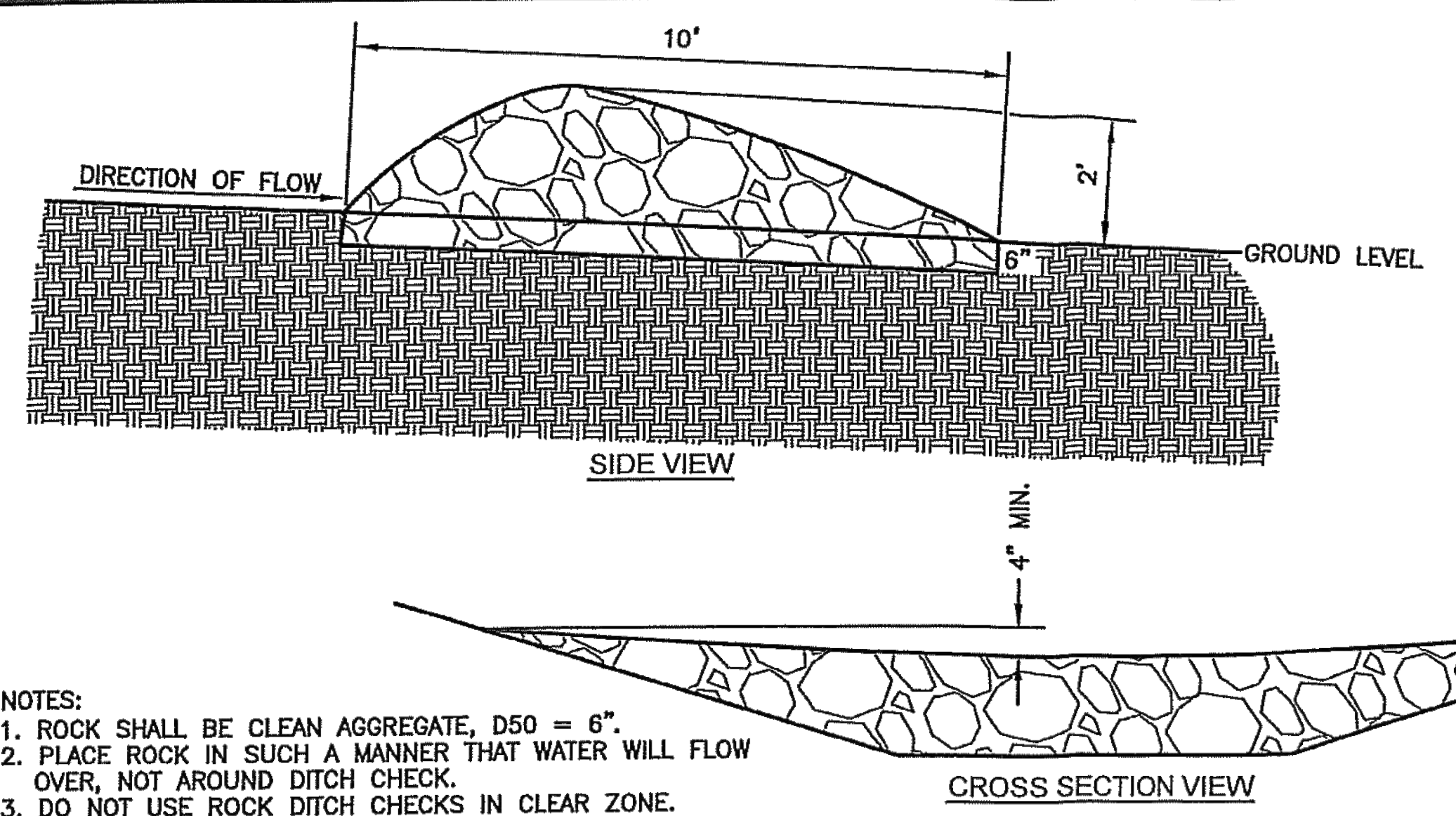


FIGURE B

- NOTES:
1. THE USE OF HAY/STRAW BALES IS THE CONTRACTOR'S OPTION. IF HAY BALES ARE USED PLACE TIGHTLY TOGETHER WITH 2"x2"x4' (MIN.) LENGTH WOOD STAKES IN OUTER 1/3 SECTIONS OF BALES. BALES SHOULD EMBEDDED INTO THE SOIL A MINIMUM OF 6" WITHIN A MAXIMUM DRAINAGE AREA OF 1 ACRE OR LESS.
 2. THE SEDIMENT FENCES SHALL BE PLACED ALONG CONTOUR LINES, WITH A SHORT SECTION TURNED UPGRADE (J-HOOK) AT EACH END OF THE BARRIERS TO HOLD WATER AND SEDIMENT (SEE FIGURE A).
 3. AREAS THAT CONTAIN LARGER CONCENTRATIONS OF WATER SHALL BE LIMITED TO LENGTHS OF SILT FENCES TO NO LONGER THAN 200' (SEE FIGURE A). LIMIT TO 1/4 ACRE PER 100' OF FENCE. FURTHER RESTRICT AREA BY LAND SLOPE TABLE ABOVE.
 4. AREAS SHOULD BE BROKEN UP WITH INTERIOR SEDIMENT FENCE TO MINIMIZE WATER CONCENTRATIONS AND LONG SLOPES (SEE FIGURE B).
 5. SEDIMENT FENCES INSTALLED AT TOE OF SLOPE SHALL BE PLACED 5' TO 10' AWAY (DOWNSTREAM) TO CREATE SEDIMENT STORAGE (SEE FIGURE B).
 6. DEPTH OF WATER CONCENTRATIONS SHOULD NOT EXCEED 1.5' AT ANY POINT ALONG THE FENCE.
 7. PLACE SILT FENCE ONLY WHERE OVERLAND OR SHEET FLOW DISCHARGES OCCUR.
 8. SILT FENCES SHOULD NOT BE USED IN CONCENTRATED FLOW CHANNELS, OR AS INLET PROTECTION DEVICES IF FLOODING CONDITIONS COULD OCCUR.
 9. DO NOT USE HAY OR STRAW BALES WITH WIRE TIES.
 10. WHEN SEDIMENT REACHES 1/2 HEIGHT OF SILT FENCE OR SIMILAR CONTROL MEASURE, THE CONTRACTOR SHALL REMOVE THE SEDIMENT.

SILT FENCE



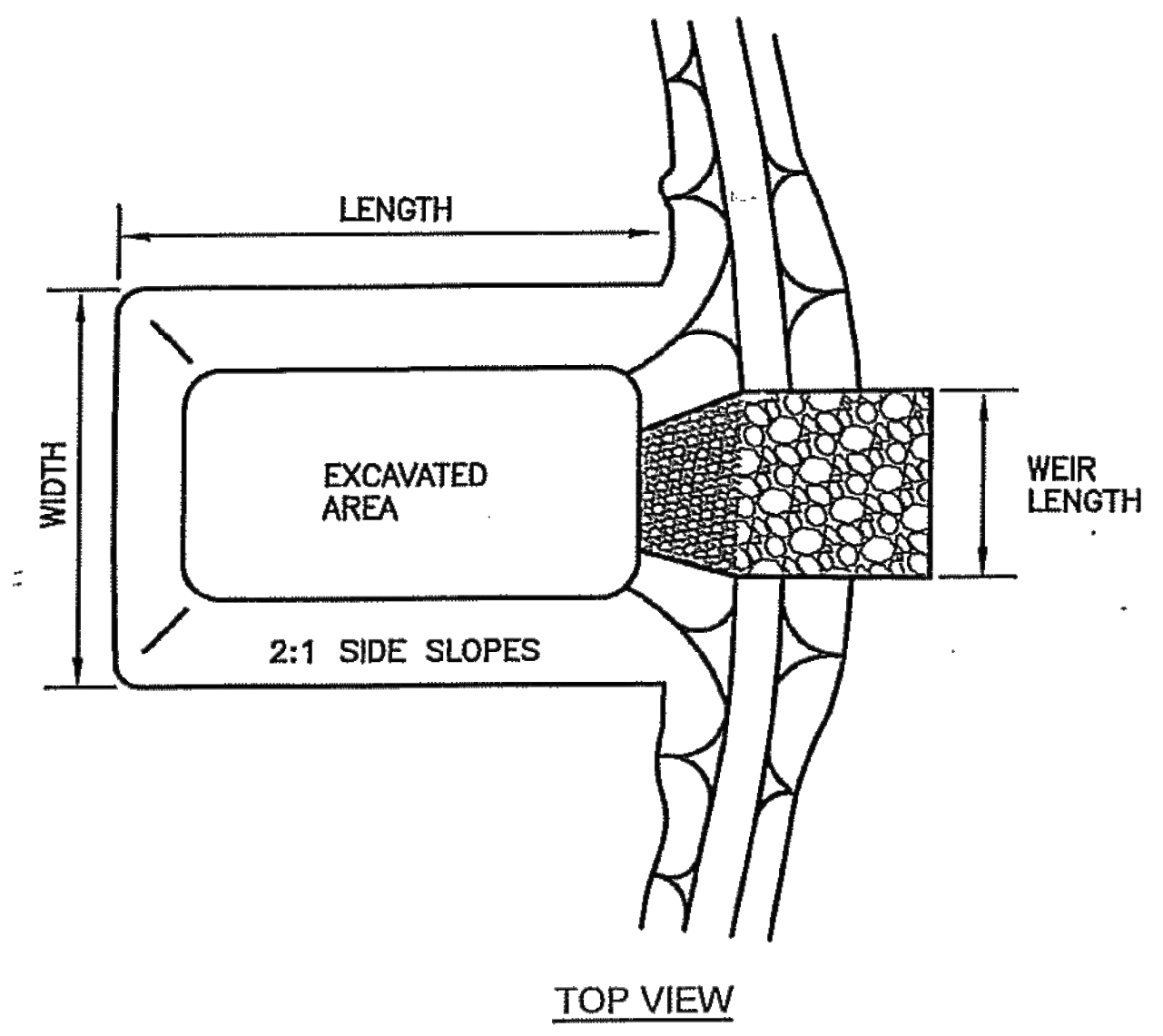
TEMPORARY ROCK DITCH CHECK SPACING

DITCH @ SLOPE (%)	SPACING INTERVAL (FEET)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29

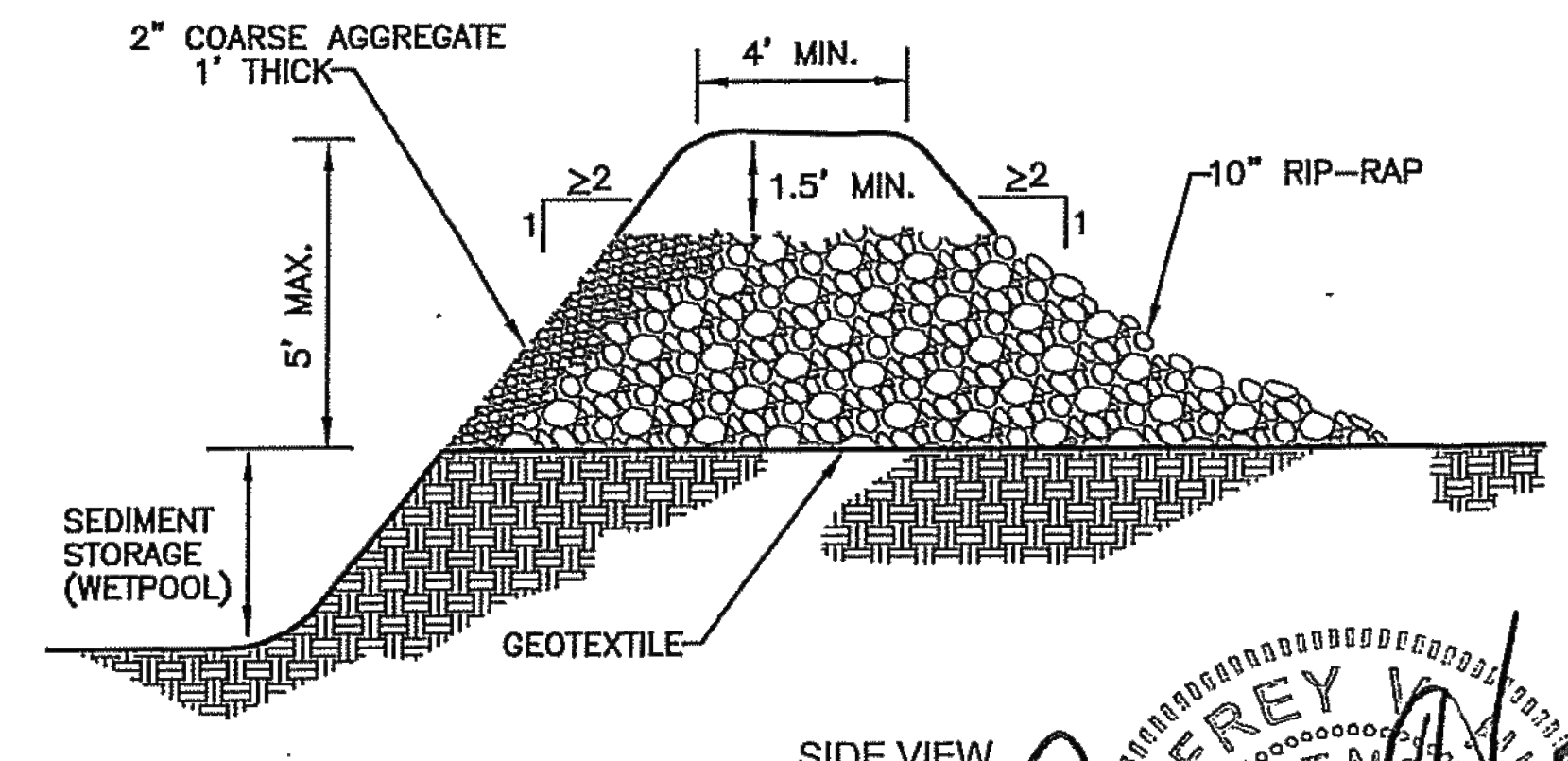
THIS SPACING IS TO BE USED FOR ROCK DITCH CHECKS ONLY.

- NOTES:
1. ROCK SHALL BE CLEAN AGGREGATE, D50 = 6".
 2. PLACE ROCK IN SUCH A MANNER THAT WATER WILL FLOW OVER, NOT AROUND DITCH CHECK.
 3. DO NOT USE ROCK DITCH CHECKS IN CLEAR ZONE.
 4. AGGREGATE EXCAVATED ON SITE MAY BE USED AS AN ALTERNATE TO THE 6" ROCK, IF APPROVED BY THE ENGINEER.

ROCK DITCH CHECK

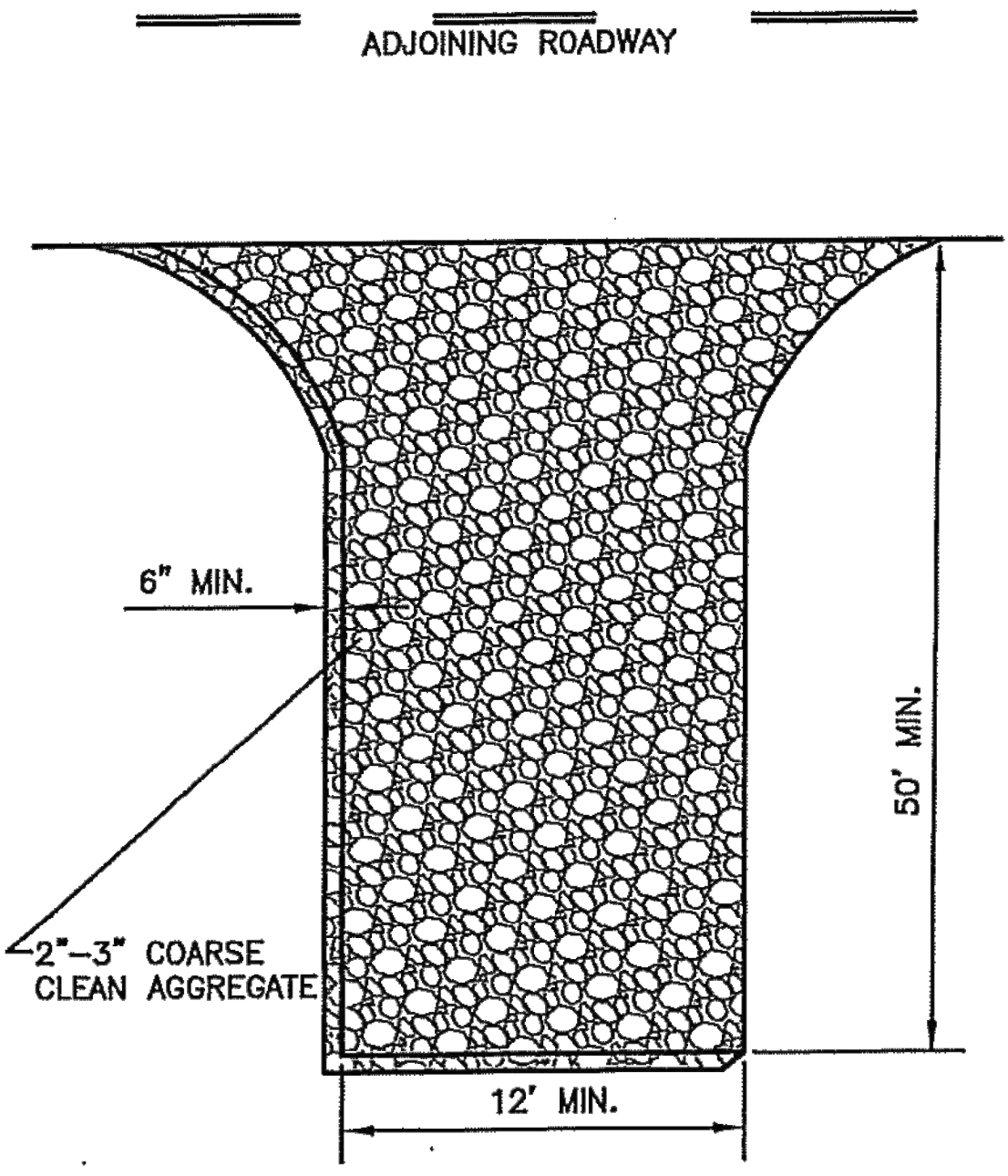


TOP VIEW



SIDE VIEW

SEDIMENT BASIN



- NOTES:
1. GEOTEXTILE FABRIC MAY BE USED AS AN UNDERLINER IN WET CONDITIONS TO PROVIDE STABILITY.
 2. PROVIDE SUFFICIENT WIDTH, LENGTH & TURNING RADIUS FOR CONSTRUCTION VEHICLES ENTERING & EXITING SITE.
 3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF SEDIMENT ON TO STREETS AND KEEP THE ENTRANCE EFFECTIVE.
 4. PROPERLY GRADE TO PREVENT RUNOFF FROM LEAVING CONSTRUCTION SITE THROUGH ENTRANCE/EXIT.
 5. DO NOT ALLOW ROCK SPACES TO BE FILLED IN WITH DIRT - ROCKS MUST BE KEPT LOOSE.

CONSTRUCTION ENTRANCE

NO.	DATE	REVISION	BY	APP'D
3	May 2015	Updated Notes & Added Rock Ditch Check	DHS	JDH
2	March 2013	Repl. Sed. Trap & Added Land Slope Table	DHS	JDH
1	Dec. 2009	Modified Stake Depth & Spacing	DHS	JDH

DRAWN BY: DHS
APP'D BY: JDH



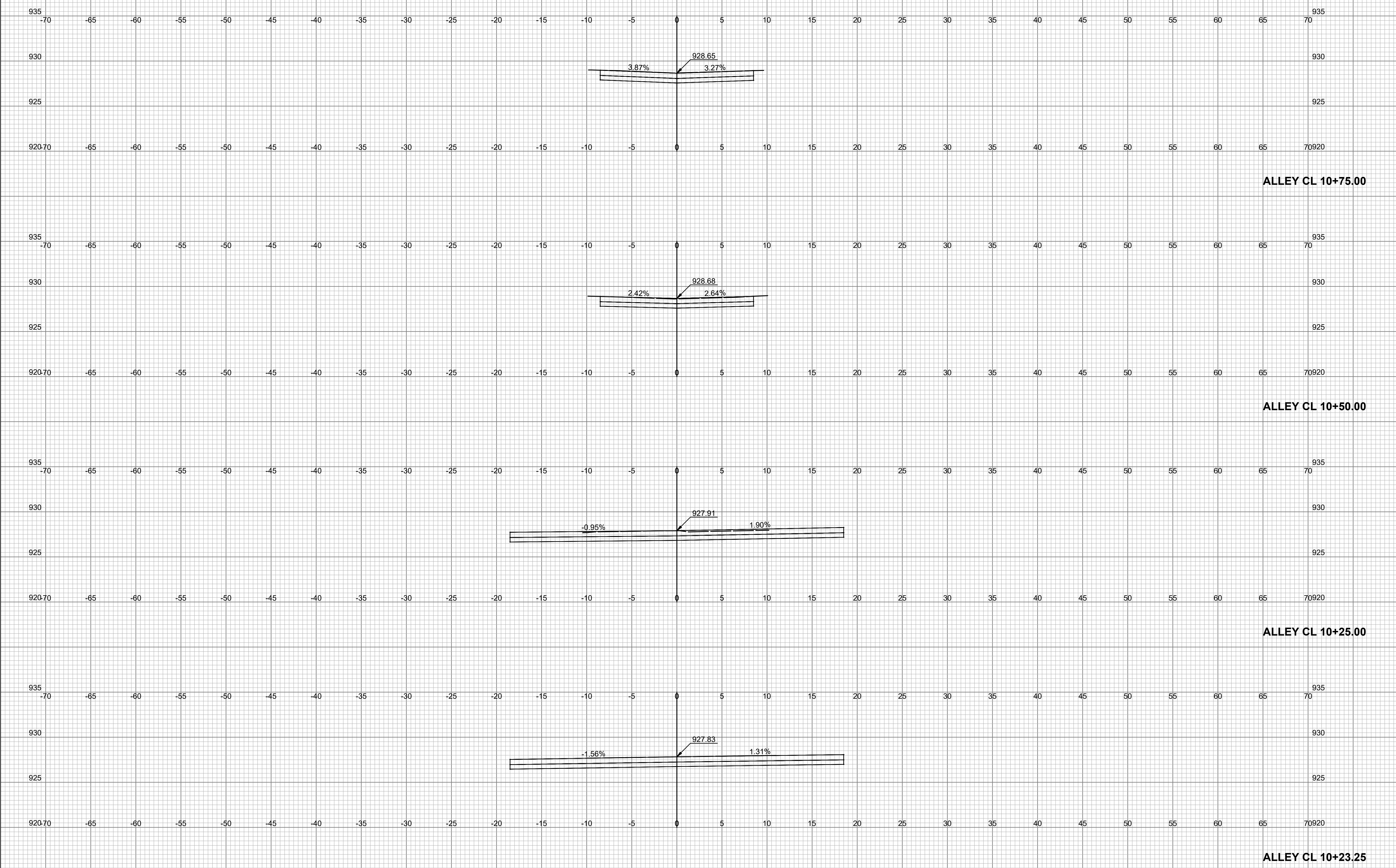
SHAWNEE COUNTY, KANSAS
PUBLIC WORKS DEPARTMENT
COUNTY ENGINEER
1515 NW SALINE
TOPEKA, KS 66618
(785) 233-7702



STANDARD DETAILS

EROSION & POLLUTION CONTROL
SILT FENCE, SEDIMENT BASIN,
CONSTRUCTION ENTRANCE,
AND ROCK DITCH CHECK
(DT-021)

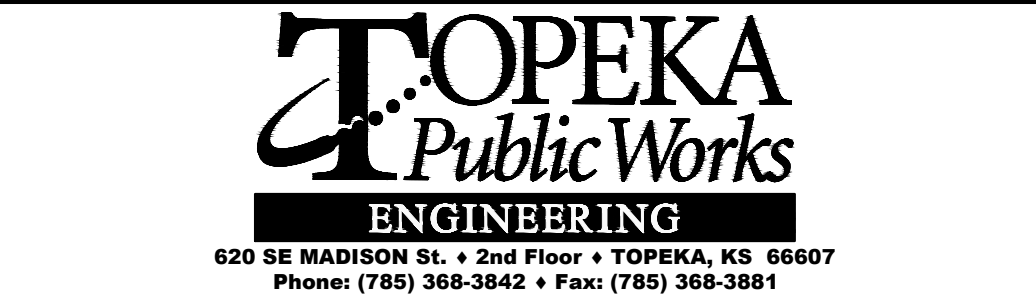
DATE: FEBRUARY 2026
SHEET: 29 OF 36
PROJ.: 841201.02
221114-000



1"=5'

NO.	DATE:	REVISION

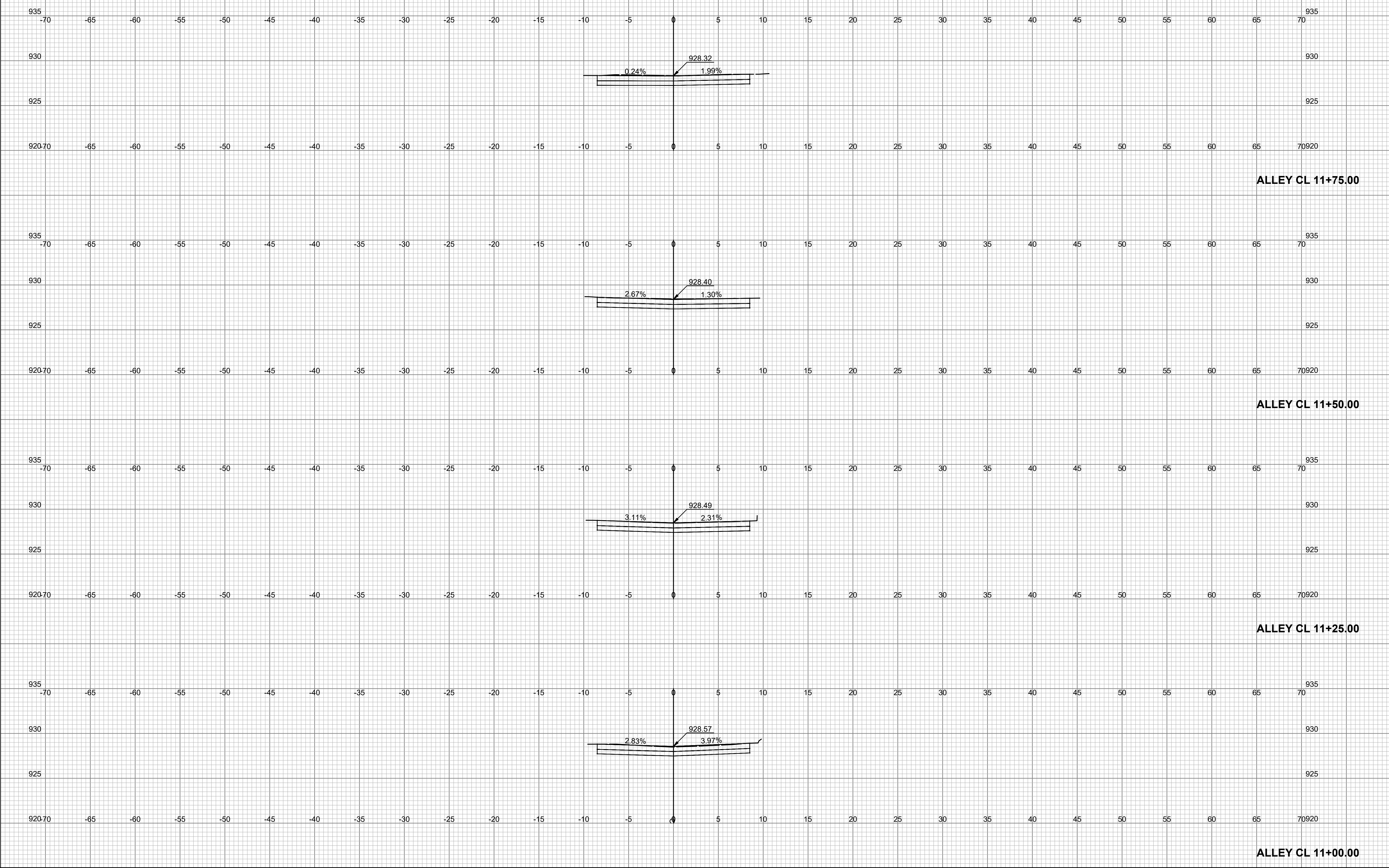
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

CROSS SECTIONS
 STA. 10+23.25 TO STA. 10+75.00

DATE: FEBRUARY 2026
 SHEET: 30 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



ALLEY CL 11+75.00

ALLEY CL 11+50.00

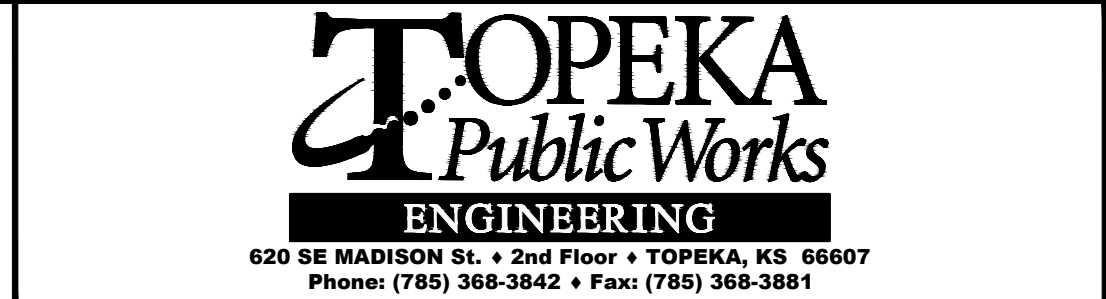
ALLEY CL 11+25.00

ALLEY CL 11+00.00

1"=5'

NO.	DATE:	REVISION

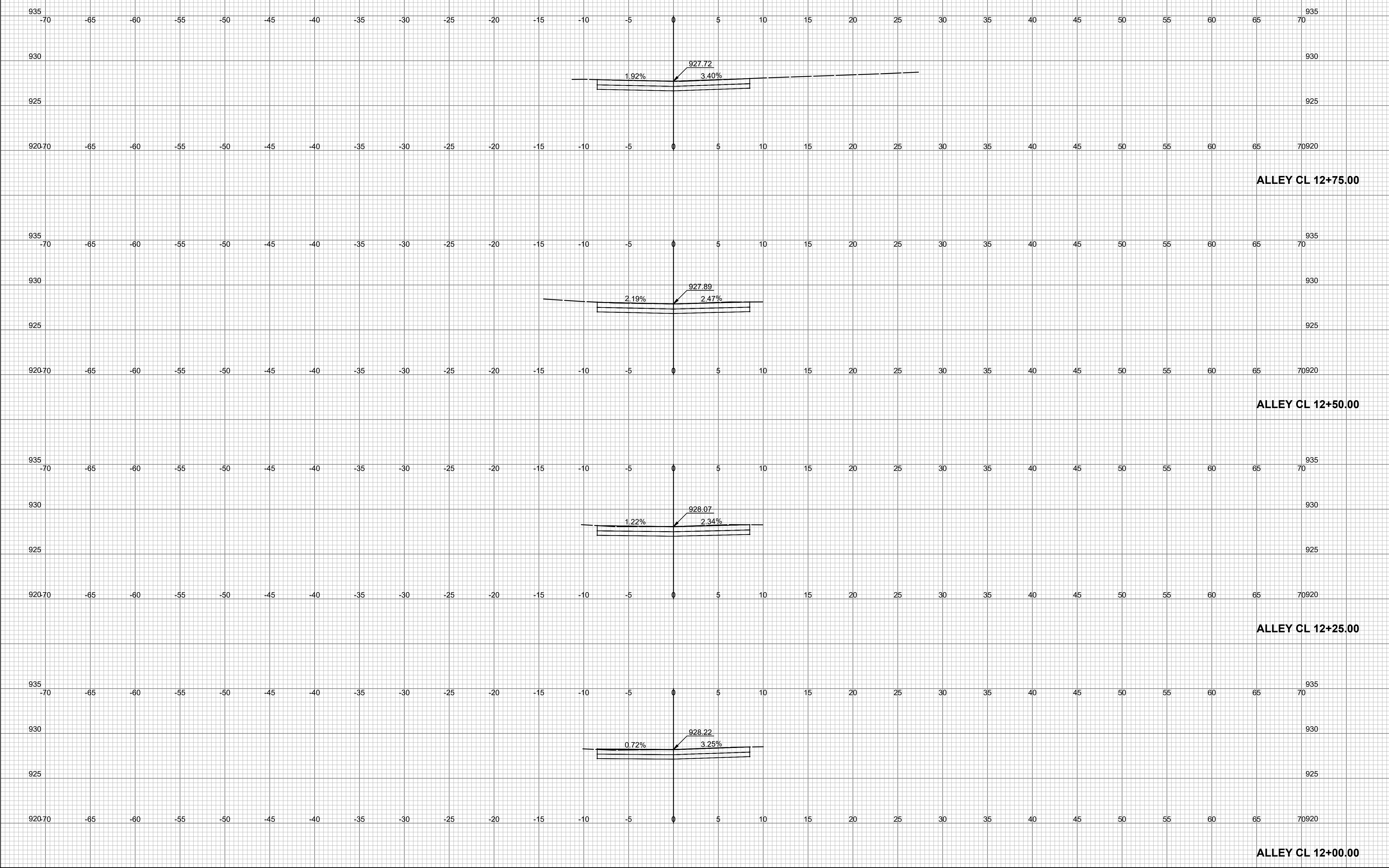
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

CROSS SECTIONS
 STA. 11+00.00 TO STA. 11+75.00

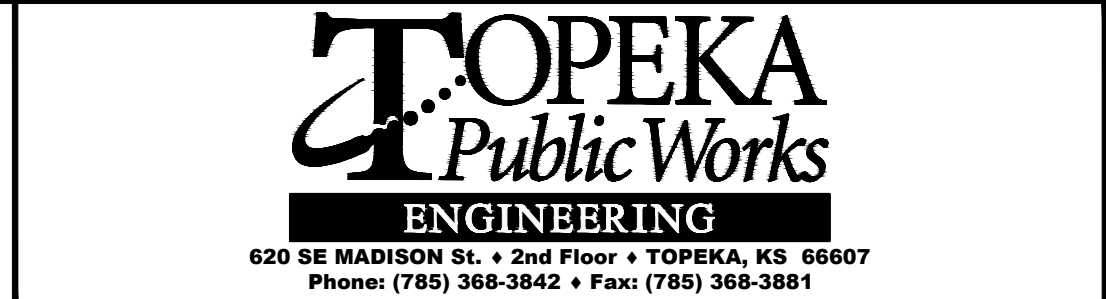
DATE: FEBRUARY 2026
 SHEET: 31 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



1"=5'

NO.	DATE:	REVISION

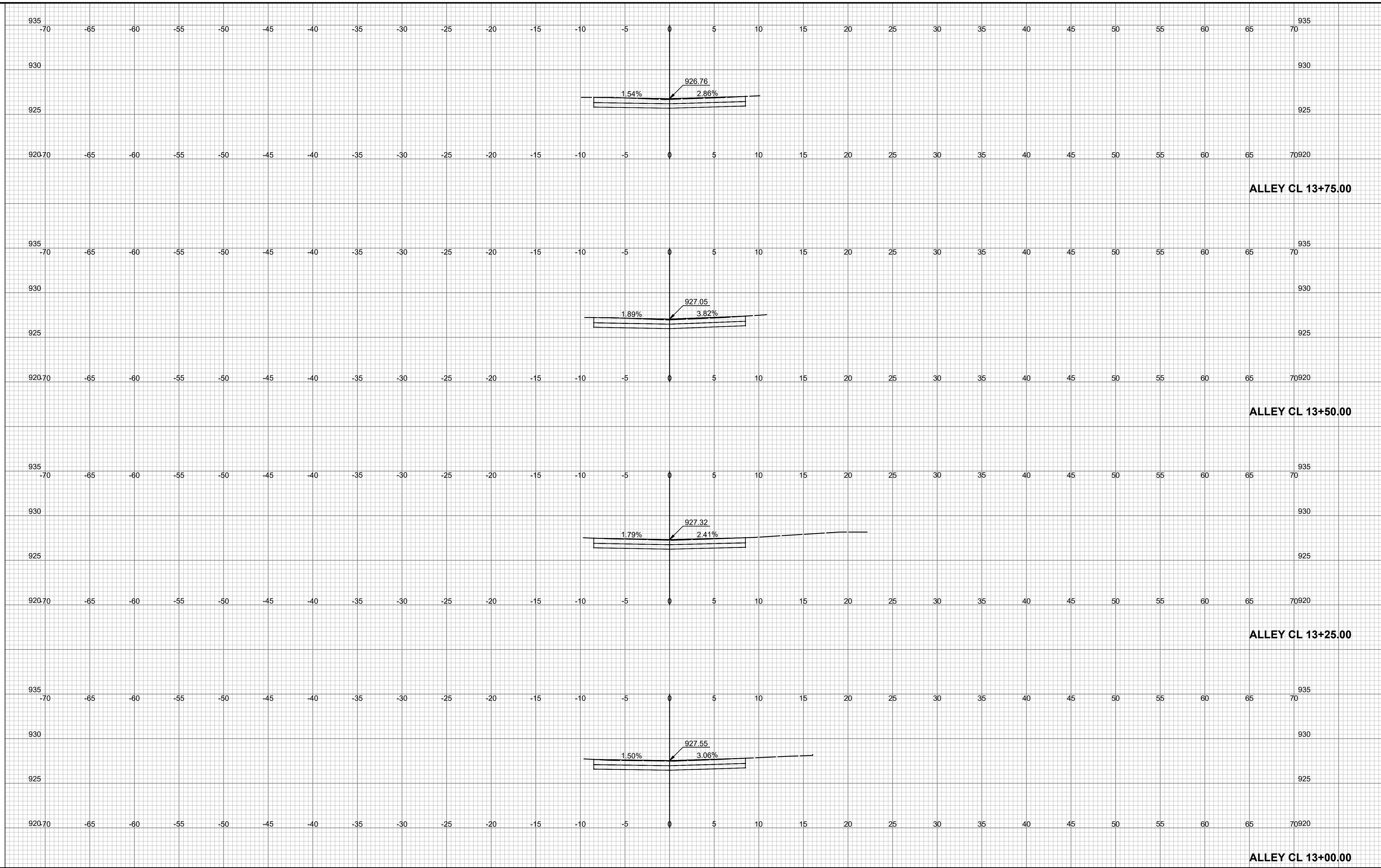
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

CROSS SECTIONS
 STA. 12+00.00 TO STA. 12+75.00

DATE: FEBRUARY 2026
 SHEET: 32 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



ALLEY CL 13+75.00

ALLEY CL 13+50.00

ALLEY CL 13+25.00

ALLEY CL 13+00.00

1"=5'

NO.	DATE:	REVISION

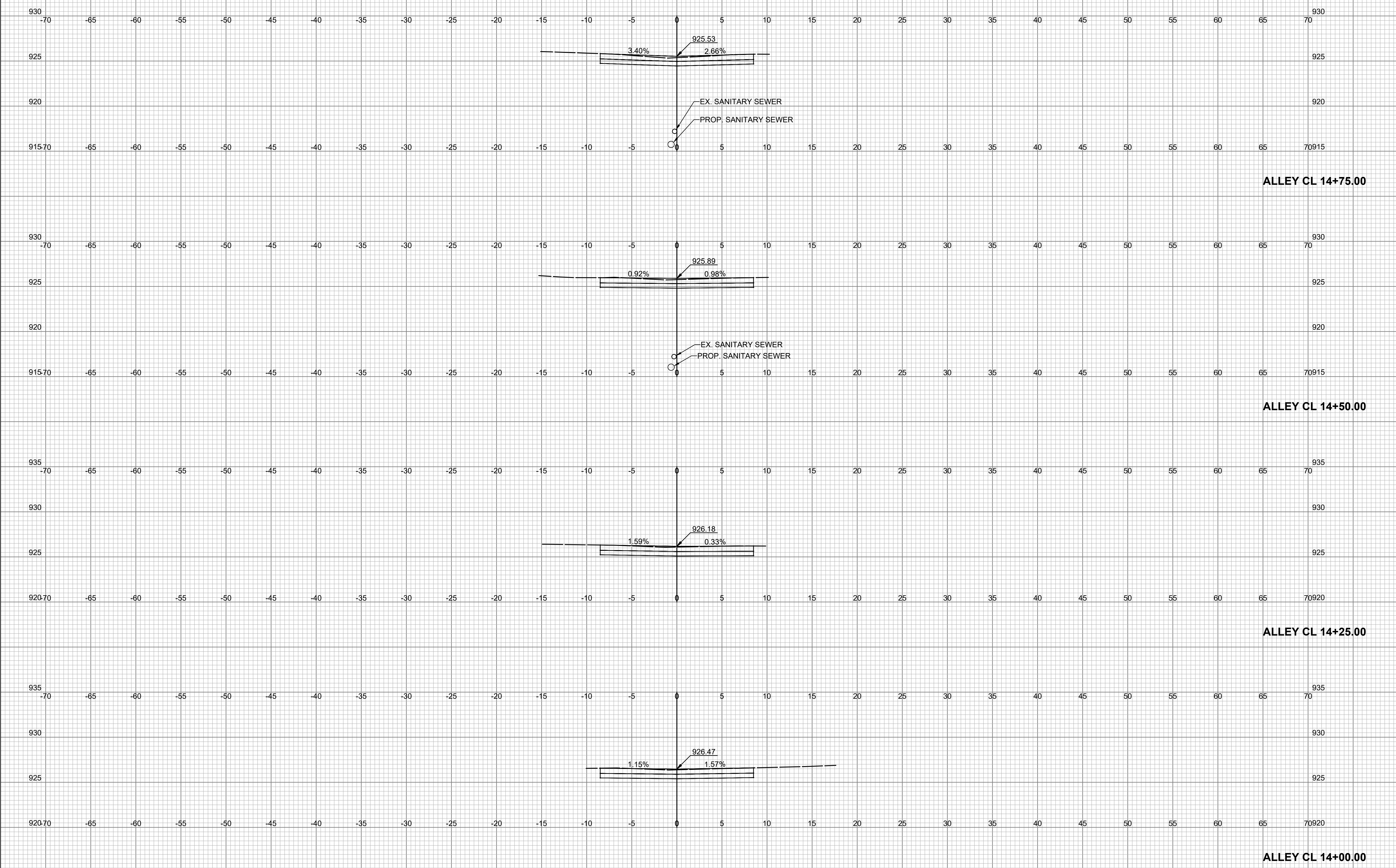
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

CROSS SECTIONS
 STA. 13+00.00 TO STA. 13+75.00

DATE: FEBRUARY 2026
 SHEET: 33 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



ALLEY CL 14+75.00

ALLEY CL 14+50.00

ALLEY CL 14+25.00

ALLEY CL 14+00.00

1"=5'

NO.	DATE:	REVISION

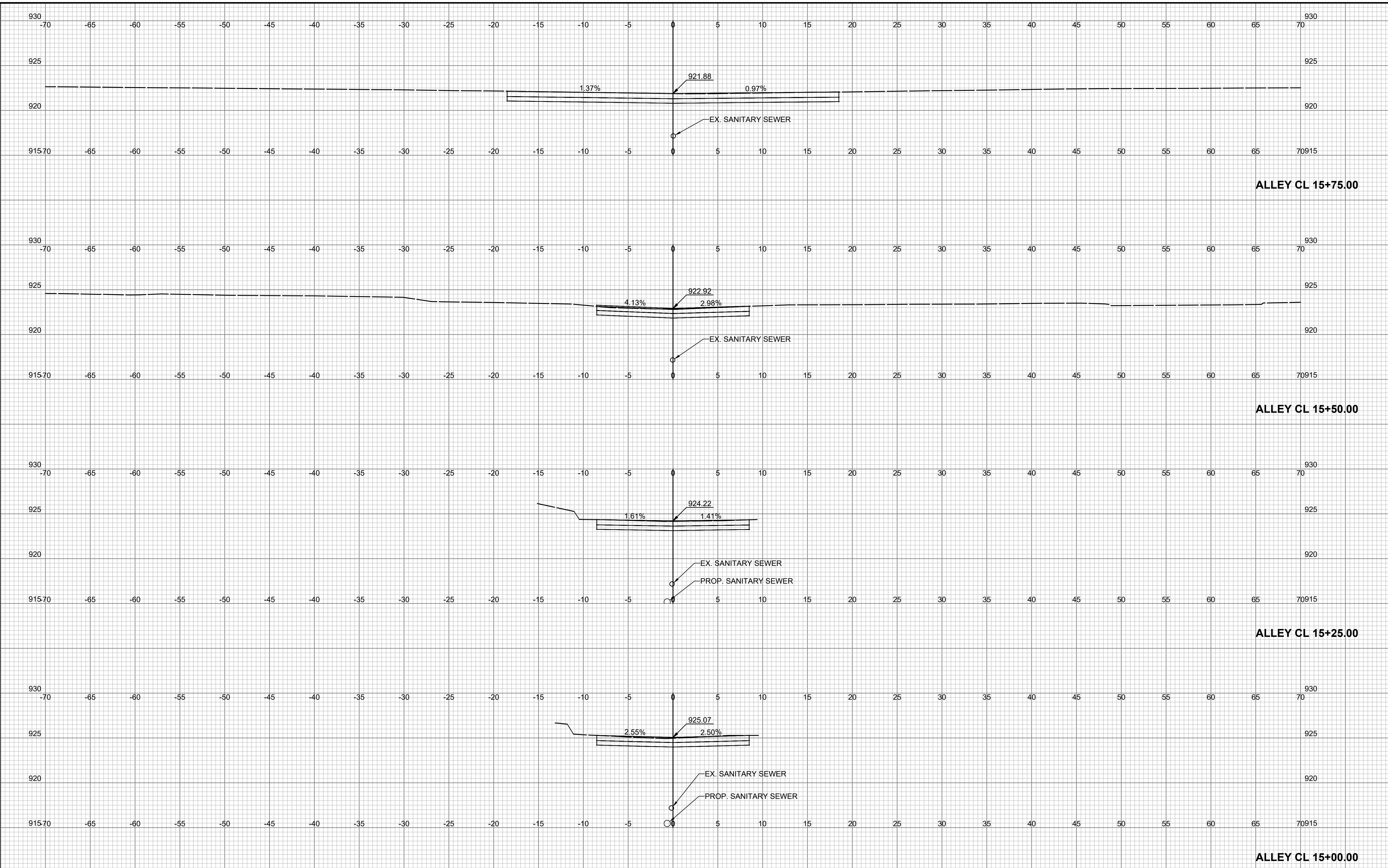
DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN
 WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

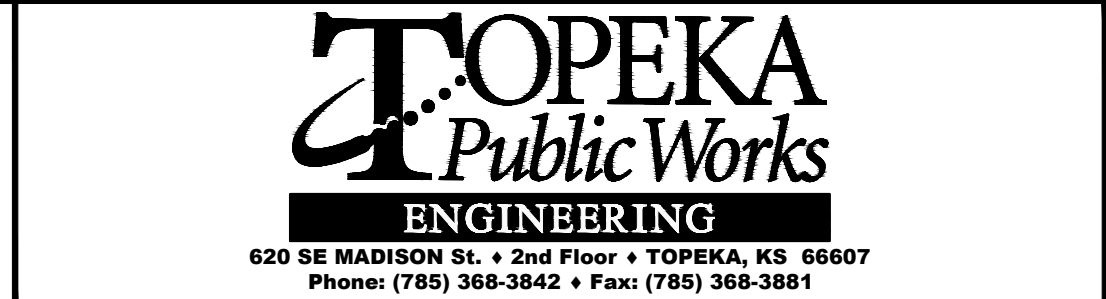
CROSS SECTIONS
 STA. 14+00.00 TO STA. 14+75.00

DATE: FEBRUARY 2026
 SHEET: 34 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000



NO.	DATE:	REVISION

DRAWN BY: CTS
 DESIGNED BY: FSA
 APPROVED BY: FSA
 SURVEYED BY: PEC
 TOPEKA PM: RB

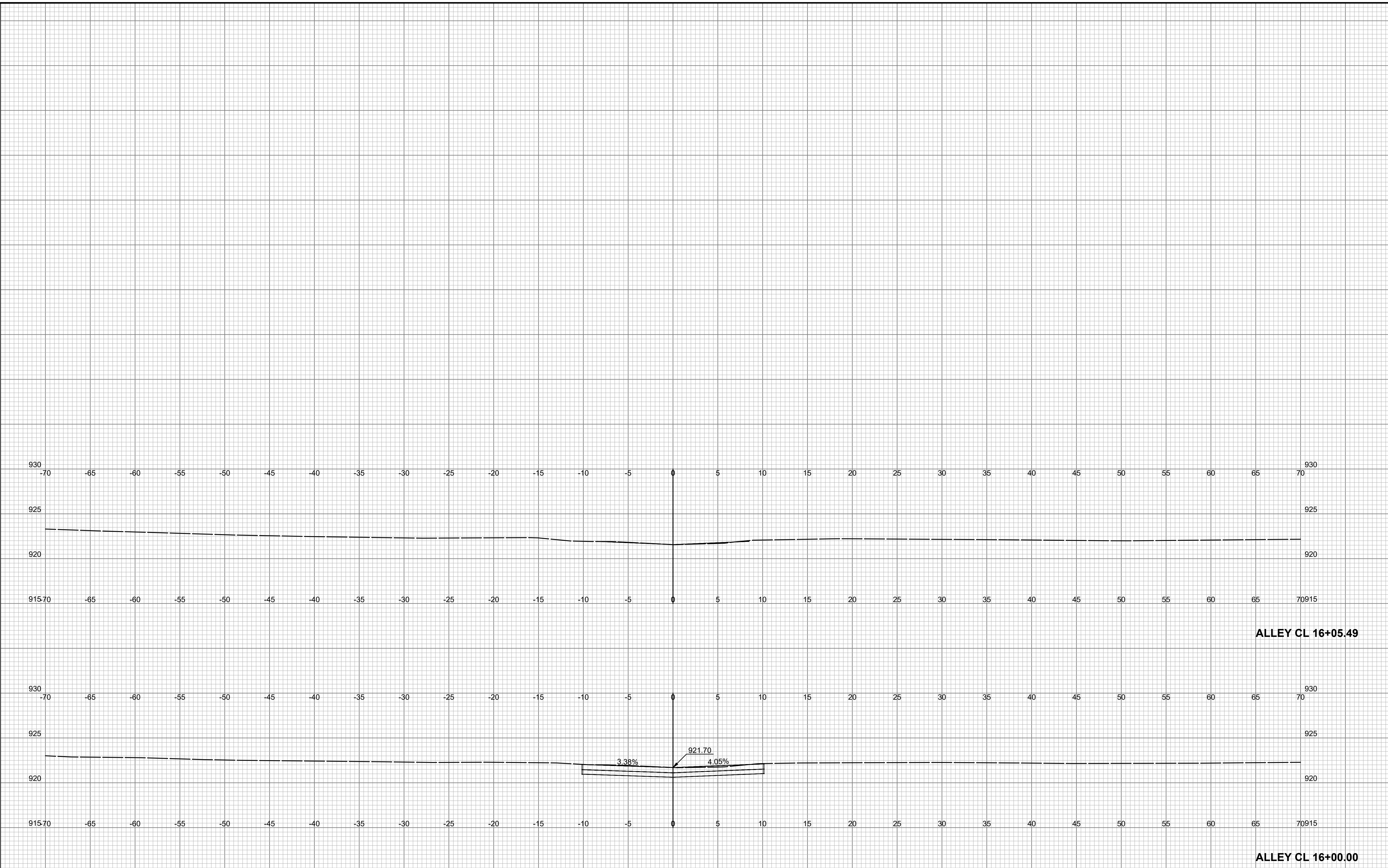


ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
 ROADWAY IMPROVEMENT PROJECT NO. 841201.02
 WATERLINE PROJECT NO. 281250.18
 SANITARY SEWER PROJECT NO. 291128.10

CROSS SECTIONS
 STA. 15+00.00 TO STA. 15+75.00

DATE: FEBRUARY 2026
 SHEET: 35 OF 36
 841201.02/281250.18/
 PROJ.: 291128.10
 PEC#: 221114-000

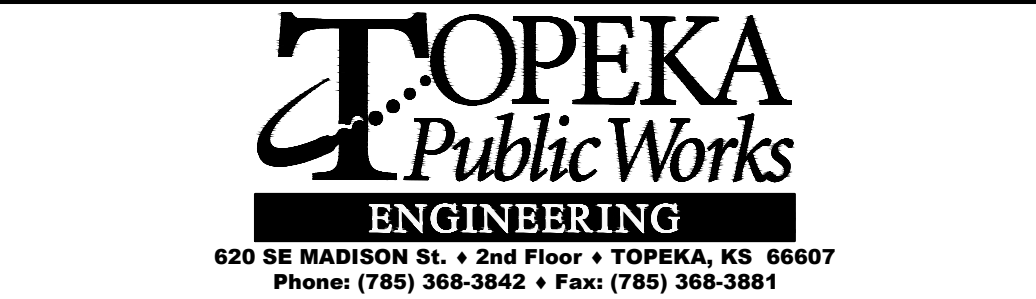
1"=5'



1"=5'

NO.	DATE:	REVISION

DRAWN BY: CTS
DESIGNED BY: FSA
APPROVED BY: FSA
SURVEYED BY: PEC
TOPEKA PM: RB



ALLEY REPAIR SOUTH OF 2ND STREET BETWEEN WOODLAWN AVE AND GREENWOOD AVE
ROADWAY IMPROVEMENT PROJECT NO. 841201.02
WATERLINE PROJECT NO. 281250.18
SANITARY SEWER PROJECT NO. 291128.10

CROSS SECTIONS
STA. 16+00.00 TO STA. 16+05.49

DATE: FEBRUARY 2026
SHEET: 36 OF 36
841201.02/281250.18/
PROJ.: 291128.10
PEC#: 221114-000