

**TOPEKA METRO**

**REQUEST FOR BIDS  
Bus Stop Connecting Sidewalks  
TO-26-06**

**Appendix III  
Engineering Studies**

**INDEX to SHEETS**

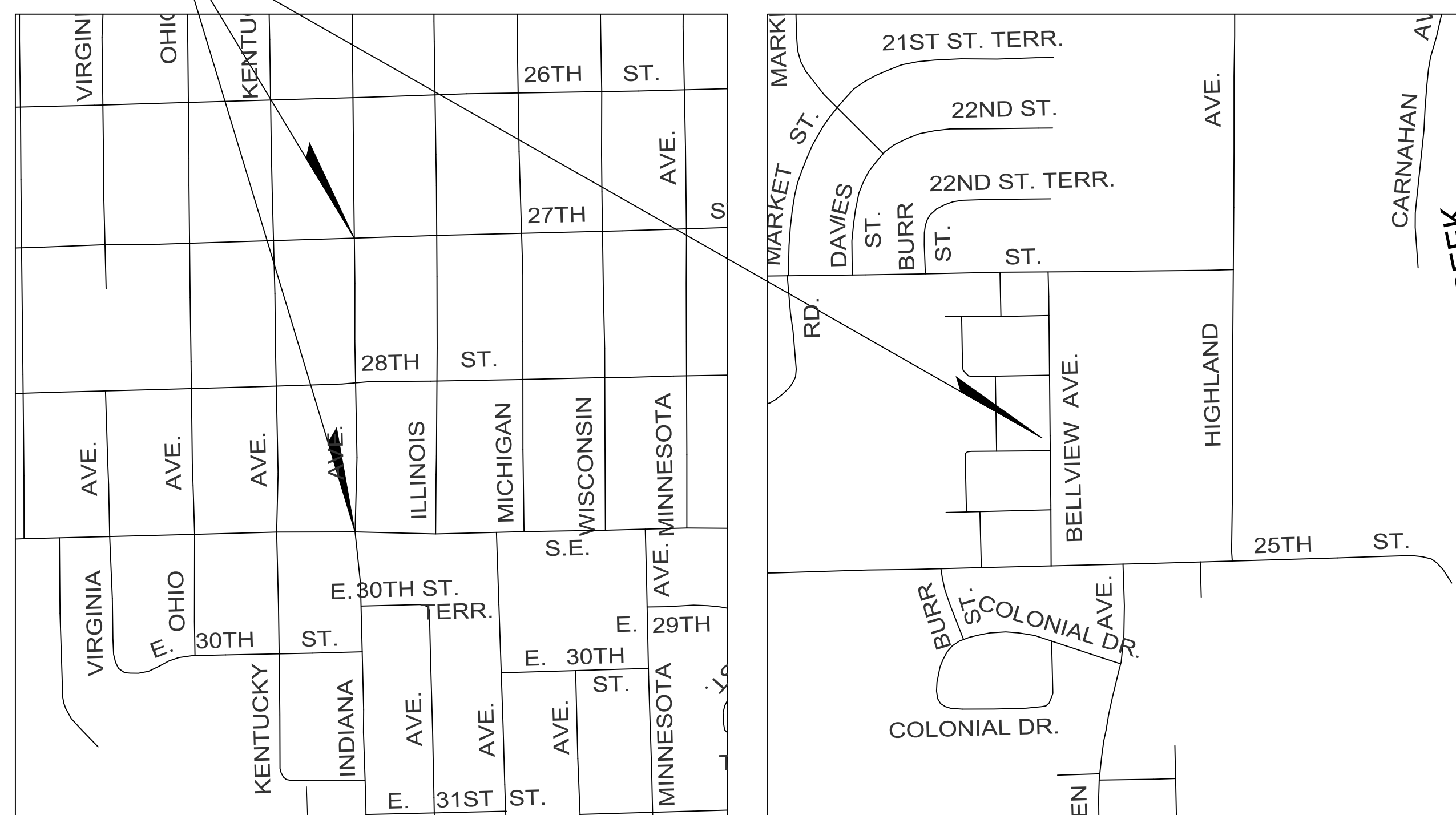
Sheet	Title
01	Title Sheet
02	General Notes & Quantities
03-05	Site Plans
06-08	Grading
09-10	Standard Details
11-12	Erosion Protection Details
13-15	Traffic Control Details

# BUS STOP SIDEWALK CONNECTION PROJECT

## CITY WIDE LOCATIONS



Project Location



**LOCATION MAP**  
No Scale



**Know what's below. Call 811 before you dig or visit us at [www.kansasonecall.com](http://www.kansasonecall.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.

**Cable TV**  
Cox Communications  
931 SW Henderson Rd.  
Topeka, KS 66615  
Dean Cape  
(785)320-0308 (cell)  
dean.cape2@cox.com

**Electric**  
Evergy  
PO Box 889  
4001 NW 14th St.  
Topeka, KS 66603  
Jennie Rohr  
(785)580-2123  
jennifer.rohr@evergy.com

**Gas**  
Kansas Gas Service  
200 E 1st St.  
Topeka, KS 66603  
Anna Frizell  
(785)431-4276  
(785)438-7071 (cell)  
anna.frizell@onegas.com  
For Gas Leaks 1-888-482-4950  
911 must also be called immediately

**Telephone**  
AT&T Corp.  
220 SE 6th St., Rm 236  
Topeka, KS 66603  
Ezra Brown  
(785)596-9905  
eb409q@att.com

**Sanitary/ Storm Sewer**  
City of Topeka, WPC Div.  
1115 NE Poplar St.  
Topeka, KS 66616  
Darrin A. Coffland  
(785)368-2467  
dcoffland@topeka.org

**Telephone/Fiber Optics**  
Verizon/MCI  
Jeffrey Wiard  
(620)242-6647  
Jeffrey.Wiard@verizonwireless.com

**Water**  
City of Topeka, Water Dist.  
3245 NW Waterworks Dr.  
Topeka, KS 66606  
Duncan Theuri  
(785)368-0152  
dtheuri@topeka.org

**Fiber Optic - City of Topeka**  
City of Topeka, Info. Tech.  
620 SE Madison St., 3rd Floor  
Topeka, KS 66604  
Wesley L. White  
(785)338-2633  
wlwhite@topeka.org

**Fiber Optic - LUMEN**  
LUMEN  
711 E. 19th St.  
Kansas City, MO 64108  
Rick Redel  
(816)518-2804  
richard.redel@lumen.com  
Relocations:relocations@lumen.com

**Fiber Optic- USD 501**  
USD 501, Info. Tech.  
1900 SW Hope St.  
Topeka, KS 66612  
Joergen Laigaard  
(785)438-4750  
jlaigaard@tps501.org

**Fiber Optic- KsFiberNet**  
Kansas Fiber Network LLC  
10875 Benson, Suite 250  
Overland Park, KS 66210  
Brad Burger  
(913)213-2937  
bburger@ksfiber.net

**Traffic Signal**  
City of Topeka, Traffic Ops.  
927 NW Harrison St.  
Topeka, KS 66612  
Duane Morris  
(785)368-3913  
dmorris@topeka.org

**Fiber Optic - AT&T Transmission**  
AT&T Services, Inc.  
1425 Oak St. Kansas  
City, MO 64016  
Lenny Vohs  
(770)335-8244  
lv2121@att.com

**Fiber Optic - Giant Communications**  
Giant Communications  
515 S Kansas Ave. Suite 210  
Topeka, KS 66603  
Lance Lyman  
(785)362-3312  
lancelym@giantcomm.net

**LEGEND**

Saw Cut Line	---		
Traffic Signal Line	---TS---		
Underground Telephone Line	---OHT---		
Overhead Telephone Line	---UT---		
Overhead Cable	---OHC---		
Underground Cable	---UC---		
Overhead Electric Line	---OHP---		
Underground TV Cable	---UTV---		
Overhead TV Line	---OHTV---		
Underground Electric Line	---UE---		
Water Line smaller than 12"	---W---		
Water Line larger than 12"	--- Existing --- Proposed ---		
Gas Line	---G---		
Sanitary Sewer	---SAN---		
Storm Sewer	--- Existing --- Proposed ---		
Fiber Optic Line	---UFO---		
Centerline	---		
Right-of-Way Line	---R/W---		
Property Line	---P---		
Lot Line	---		
Chain link Fence	---o---o---o---		
Wood Fence	---x---x---x---		
Wire Fence	---x---		
Railroad Tracks	---+---+---+---		
Section Corner	△	Elec. Pedestal	⊞
Control Point	⊕	Elec. Manhole	⊞ TEL
Property Pin	⊙	Telephone Manhole	⊞ MH
Power Pole	⊙ SET	Telephone Pedestal	⊞
Utility Pole	⊙ FOUND	TV Pedestal	⊞ TV
Street Light	⊙	Sprinkler Head	⊞
Guy Pole	⊙	Tee	⊞
Guy Wire	⊙	Cross	⊞
Fire Hydrant	⊙	Water Meter	⊞
Water Meter	⊙	Water Valve	⊞
Water Valve	⊙	Gas Meter	⊞
Gas Meter	⊙	Gas Valve	⊞
Gas Valve	⊙	Mail Box	⊞
Mail Box	⊙	Existing Storm Inlet	⊞
Existing Storm Inlet	⊙	Existing Manhole	⊞ San
Existing Manhole	⊙	Existing Traffic Manhole	⊞ Storm
Existing Traffic Manhole	⊙	Sign	⊞
Sign	⊙	Tree	⊞
Tree	⊙	Stump	⊞
Stump	⊙	Shrub	⊞
Shrub	⊙		

**GENERAL NOTE:**

All construction methods and materials used in the construction of the improvements covered by these plans shall be in accordance with the Standard Technical Specifications and addendum's to the (STS) on file in the office of the City Engineer, City of Topeka, Kansas.

PLANS PREPARED BY:

**CFS ENGINEERS**  
cfse.com  
2930 SW Woodside Dr. Topeka, KS 66614  
o: 785-272-4706 f: 785-272-4736

Professional Engineer Seal: MICHAEL J. MORRIS, PE, No. 42781, State of Kansas, Expires 4-23-26

**UTILITY OWNERS  
LOCATION MAP  
SHEET INDEX  
LEGEND**

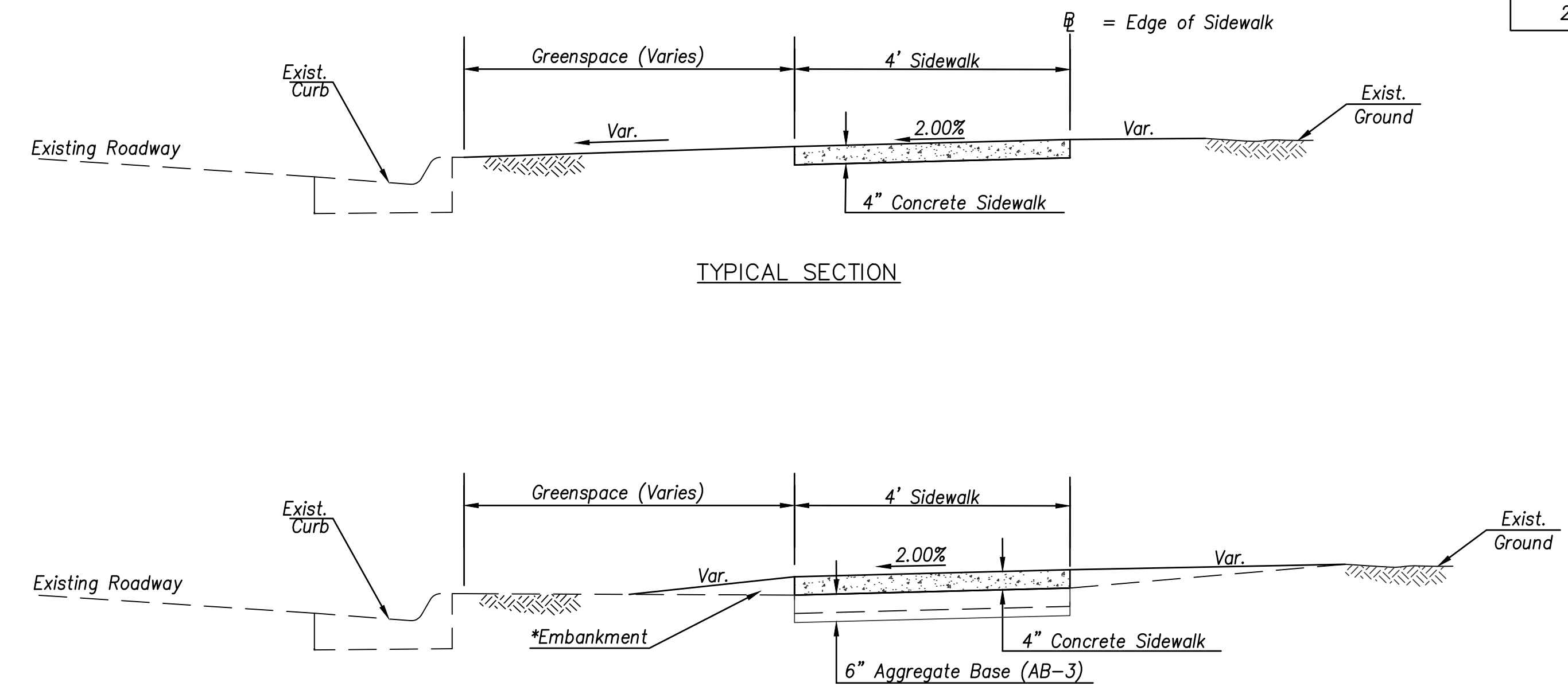
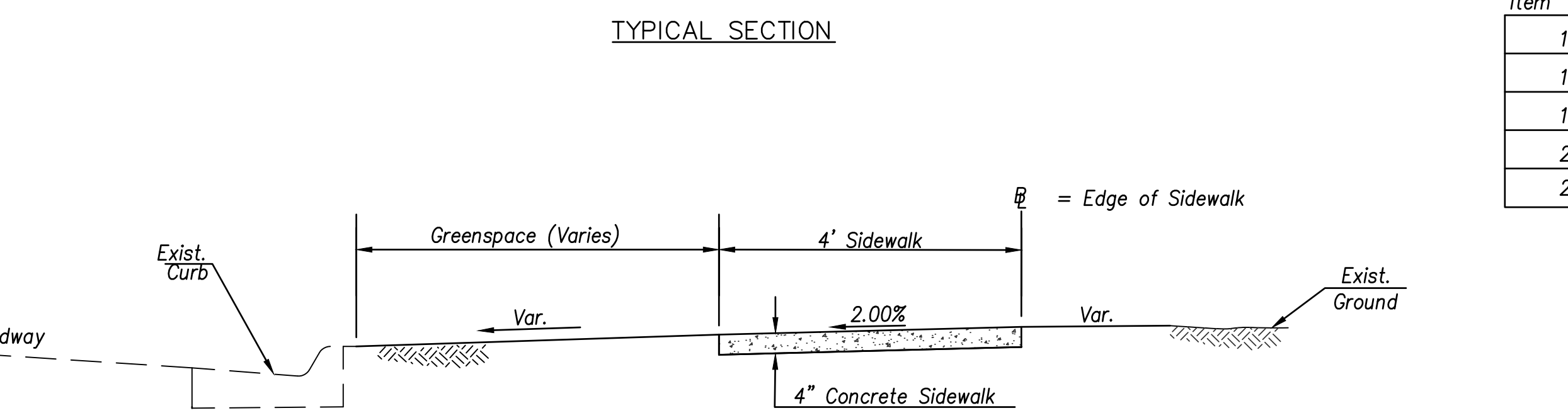
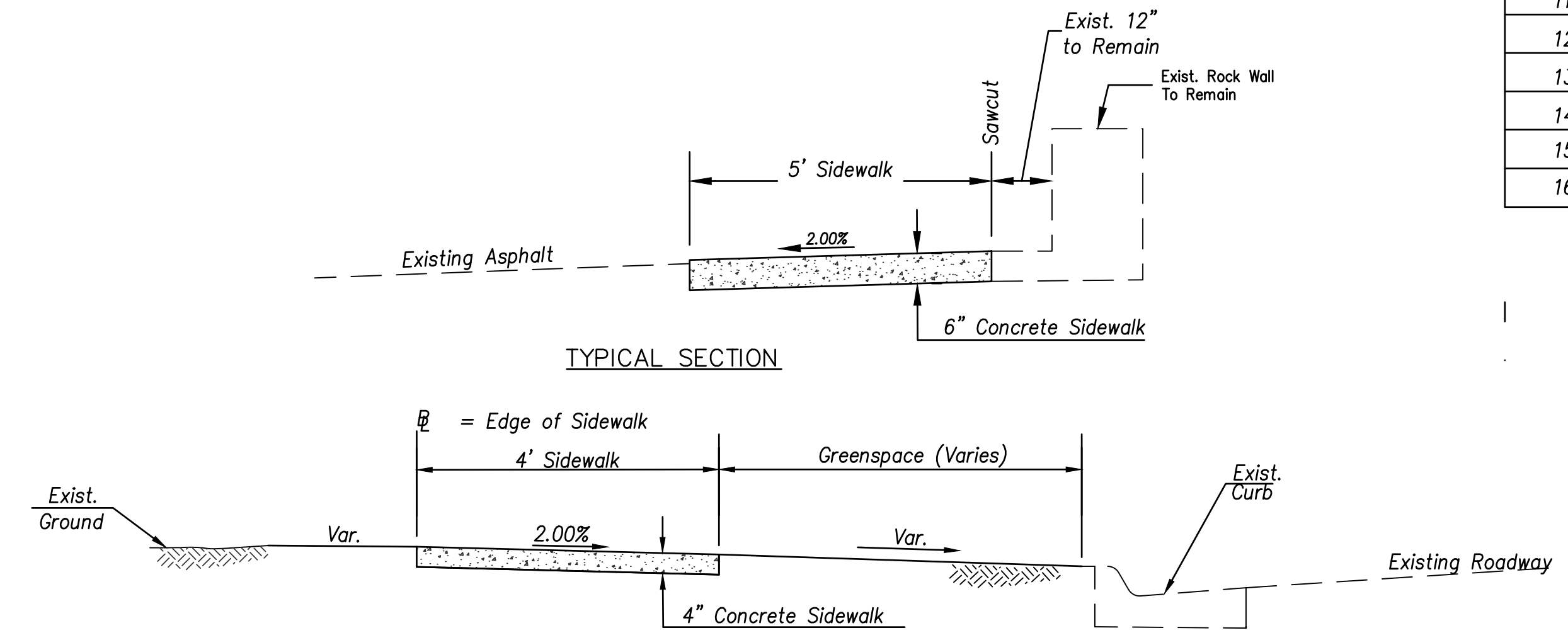
DATE: April 2026  
SHEET: 01 of 15  
PROJ.:

- ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE STANDARD TECHNICAL SPECIFICATIONS AND CURRENT REVISIONS ON FILE IN THE OFFICE OF THE CITY ENGINEER, CITY OF TOPEKA, SHAWNEE COUNTY, KANSAS. THE CITY ENGINEERS DECISIONS ON QUESTIONS REGARDING THESE PLANS SHALL GOVERN.
- THE LOCATION OF ALL UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION SHALL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES. ANY DAMAGE TO THE UTILITY SHALL BE REPAIRED OR REPLACED BY THE UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL PROPERTY PINS DISTURBED BY CONSTRUCTION SHALL BE REPLACED BY A LICENSED ENGINEER OR LAND SURVEYOR. THIS WORK SHALL BE SUBSIDIARY TO OTHER ITEMS OF THE CONTRACT.
- FULL DEPTH SAWCUTS SHALL BE USED TO REMOVE A PORTION OF PAVEMENT OR CURB AND GUTTER. ALL SAWCUTS SHALL BE FULL DEPTH AND SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
- EXCESS MATERIALS (ROCK, ETC.) SHALL BE WASTED AT LOCATIONS FURNISHED BY THE CONTRACTOR OFF THE PROJECT SITE. WASTE LOCATIONS ARE SUBJECT TO APPROVAL BY THE ENGINEER. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. ARMY CORPS OF ENGINEERS PERMITTING REGULATIONS.
- CONTRACTOR SHALL MAINTAIN CONSTRUCTION LIMITS WITHIN THE EXISTING RIGHT-OF-WAY.
- CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN TO THE CITY OF TOPEKA FOR APPROVAL.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, FOR APPROVAL, A DETAILED WORK SCHEDULE OUTLINING ESTIMATED TIME PERIODS FOR CONSTRUCTION OF SEGMENTS.
- ALL DEVICES AND FLAGGER OPERATIONS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE BID ITEM "TRAFFIC CONTROL (L.S.)"
- ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SEEDED IN ACCORDANCE WITH THE PLANS AND SPECIFICATION, AND PAID BY THE BID ITEM "SEEDING - LS". AREA ADDITIONS MAY BE DEEMED NECESSARY BY THE OWNER FOR REASONS INCLUDING BUT NOT LIMITED TO: HEAVY EQUIPMENT TRACKING, WHEEL RUTTING, AND TEMPORARY STORAGE OF MATERIALS ON EXISTING GREENSPACE AREAS, OR OTHER CONTRACTOR RELATED EVENTS THAT CAUSE ADDITIONAL DISTURBED AREAS. IN THE EVENT OF WHEEL RUTTING, CONTRACTOR MAY BE REQUIRED TO PROVIDE BLACK TOPSOIL PRIOR TO SEEDED TO BRING THE GROUND BACK TO LEVEL. LABOR AND MATERIALS TO REPAIR WHEEL RUTTING SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE BID ITEM "SEEDING - LS".
- SUITABLE BACKFILL MATERIAL SHALL BE ACQUIRED FROM ON SITE MATERIALS, UNLESS OTHERWISE REJECTED ON THE BASIS OF CITY OF TOPEKA SPECIFICATIONS.

- HAUL AND WASTE IS SUBSIDIARY TO OTHER ITEMS IN CONTRACT.
- CONTRACTOR SHALL STAGE HIS OPERATIONS SO AS TO ALLOW ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION. NOTIFY ADJACENT PROPERTY OWNERS AT LEAST ONE WEEK IN ADVANCE PRIOR TO BEGINNING OPERATIONS IN THE AFFECTED AREAS.
- ALL INLET PROTECTION SHALL ADHERE TO DETAIL SHEETS CONTAINED IN THE PLANS. ALL INLETS ON THE PROJECT ARE SUBJECT TO PROTECTION, WHETHER INDICATED IN THE PLAN SHEETS OR NOT. CONTRACTOR SHALL BE PAID AT THE UNIT BID PRICE FOR EACH PROTECTED INLET.
- CONTRACTOR CONSTRUCTION STAKING SHALL INCLUDE, BUT IS NOT LIMITED TO, COMPLETE ALIGNMENT AND PROFILE STAKING AS SHOWN IN THE PLANS AS WELL AS EVALUATION AND VERIFICATION OF PROFILE GRADE ADJUSTMENTS AT PANEL REPLACEMENTS SECTIONS (SEE TYPICAL SECTIONS).
- OVERHEAD POWER LINE AT 27TH & INDIANA TO BE RELOCATED BY OTHERS.
- UTILITY POLE AND COVER AT 29TH AND INDIANA TO BE RELOCATED BY OTHERS.

RECAPITULATION OF QUANTITIES			
Item	Description	Quantity	Units
1	UNCLASSIFIED EXCAVATION	27	CY
2	PAVEMENT REMOVAL	100	SY
3	CLEARING AND GRUBBING	1	LS
4	COMBINED SIDEWALK AND RETAINING WALL	78	LF
5	6" AGGREGATE BASE (AB-3)	20	SY
6	4" CONCRETE SIDEWALK - width varies	932	SF
7	6" CONCRETE SIDEWALK - width varies	146	SF
8	6" EDGE CURB	19	LF
9	SIDEWALK RAMP	395	SF
10	COMBINED CURB AND GUTTER, TYPE I	260	LF
11	CONTRACTOR CONSTRUCTION STAKING	1	LS
12	SEEDING, FERTILIZING & MULCHING	1	LS
13	REMOVE AND RESET VALVE BOX AND COVER, PAVEMENT	2	EACH
14	REMOVE AND RESET SIGN	2	EACH
15	INLET PROTECTION (CURB)	6	EACH
16	TRAFFIC CONTROL	1	LS

NOTE: 20 SY of 6" AB-3 has been included for the contractor to utilize as-needed for subgrade stabilization wherever soft soils are encountered. The Owner reserves the right to overrun this quantity to zero, or overrun as needed. Low spots for infill sidewalk may also utilize AB-3.



\*Embankment shall be subsidiary and provided by excess cut from other area of the project.  
Sidewalk elevation adjustments to be field determined.

ADD ALTERNATE #1

Item	Description	Quantity	Units
17	PAVEMENT REMOVAL (ADD ALT 1)	72	SY
18	4" CONCRETE SIDEWALK - width varies (ADD ALT 1)	414	SF
19	SIDEWALK RAMP (ADD ALT 1)	111	SF
20	COMBINED CURB AND GUTTER, TYPE I (ADD ALT 1)	103	LF
21	CONTRACTOR CONSTRUCTION STAKING (ADD ALT 1)	1	LS

NOTE: Add Alternate #1 includes the removal and replacement of the concrete ramp section at the NE quadrant of SE 29th & Indiana, as shown in the plan set. Grades and layouts are not provided, but shall be installed per standard details and within ADA guidelines. Contractor shall receive verification of all forms and slopes from the Engineer prior to pouring concrete.

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NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: xx  
APP'D BY: xx

Cook, Flatt & Strobel Engineers  
2930 SW Woodside Drive  
Topeka, Kansas 66614  
785.272.4706

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

BUS STOP SIDEWALK CONNECTIONS

GENERAL NOTES &  
QUANTITY RECAP

DATE: April 2026  
SHEET: 02 of 15  
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DRAWN BY: xx  
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**CFS**  
ENGINEERS

Cook, Flatt & Strobel Engineers  
2930 SW Woodside Drive  
Topeka, Kansas 66614  
785.272.4706

**TOPEKA**  
Public Works  
ENGINEERING

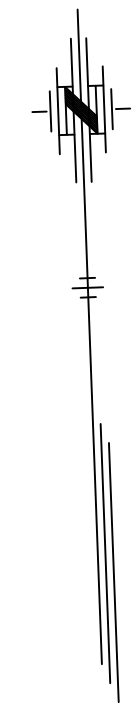
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Phone: (785) 368-3842 • Fax: (785) 368-3881

BUS STOP SIDEWALK CONNECTIONS

SITE PLAN  
2400 BLK. SE BELLVIEW

DATE: April 2026  
SHEET: 03 OF 15  
PROJ.:

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**CFS**  
**ENGINEERS**  
 Cook, Flatt & Strobel Engineers  
 2930 SW Woodside Drive  
 Topeka, Kansas 66614  
 785.272.4706

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

BUS STOP SIDEWALK CONNECTIONS

SITE PLAN  
 27TH & INDIANA

DATE: April 2026  
 SHEET: 04 OF 15  
 PROJ.:

Indiana Ave.

ADD ALT #1

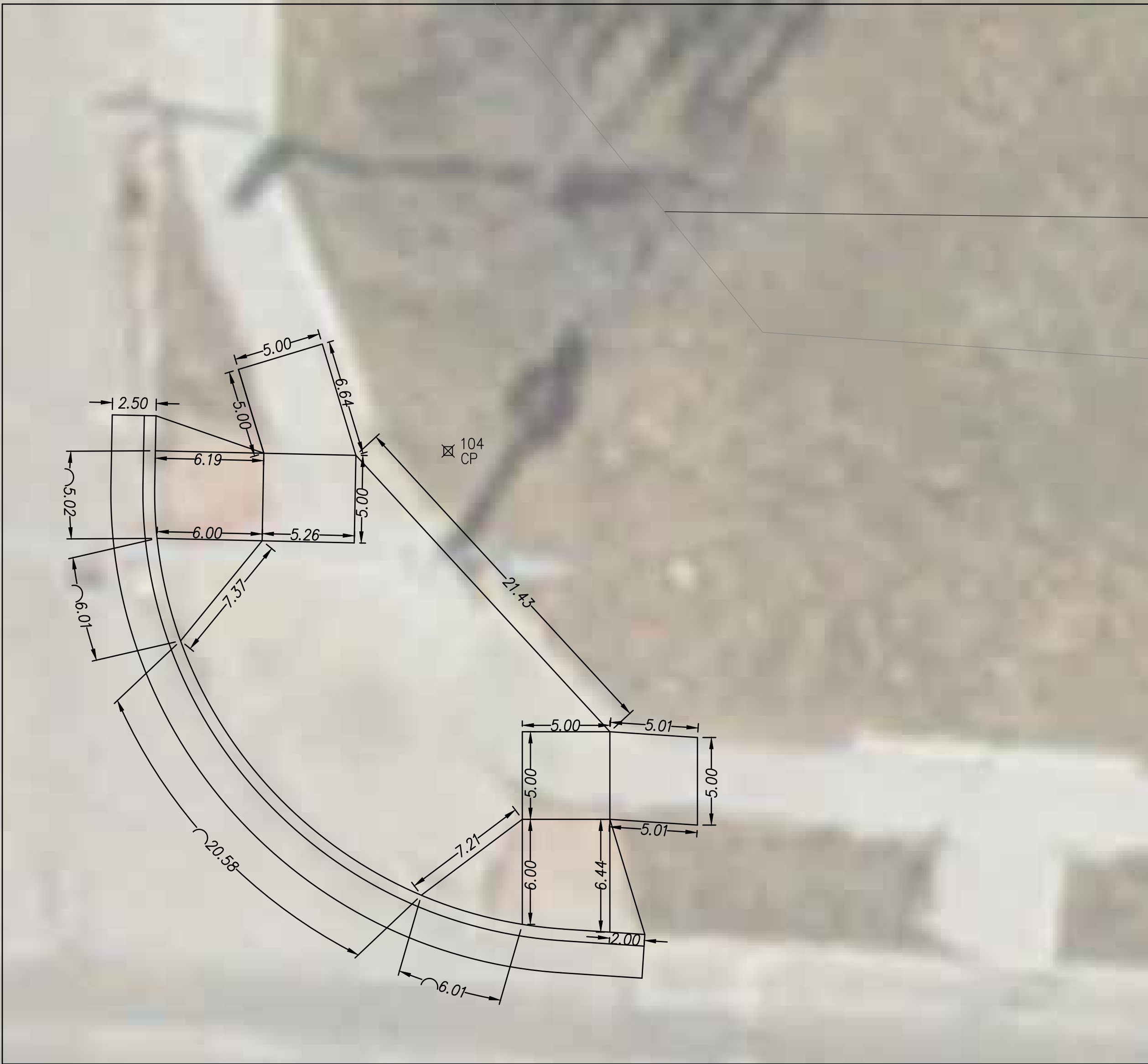
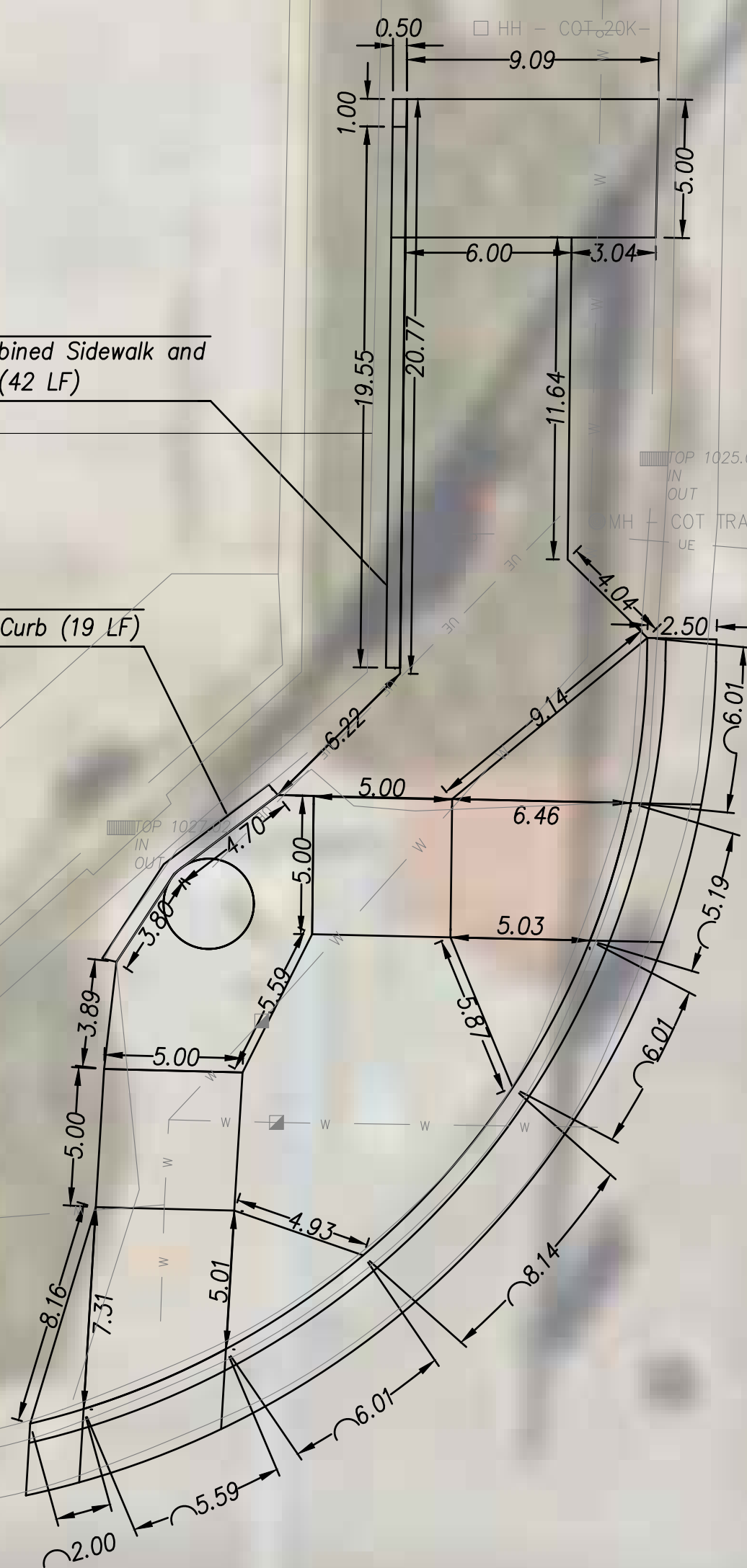
288

290

29th St.

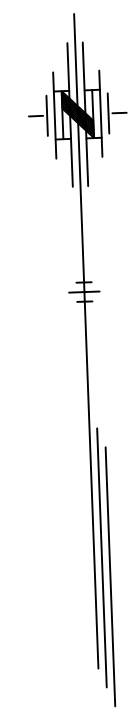
Construct Combined Sidewalk and Retaining Wall (42 LF)

Construct 6" Edge Curb (19 LF)



ASPHALT

SEC N: 569402.6670 E: 1025.08 PT# 22



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ENGINEERS  
Cook, Flatt & Strobel Engineers  
2930 SW Woodside Drive  
Topeka, Kansas 66614  
785.272.4706

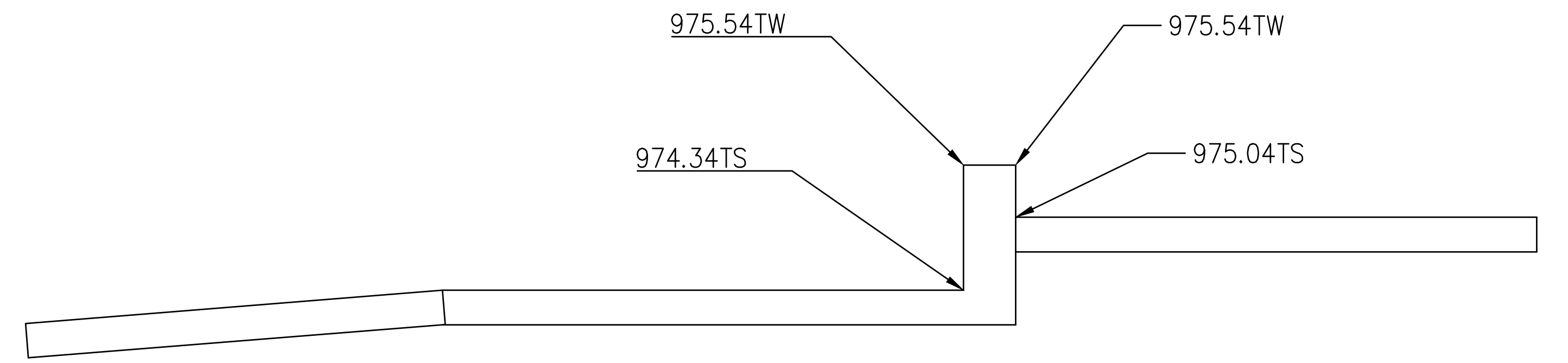
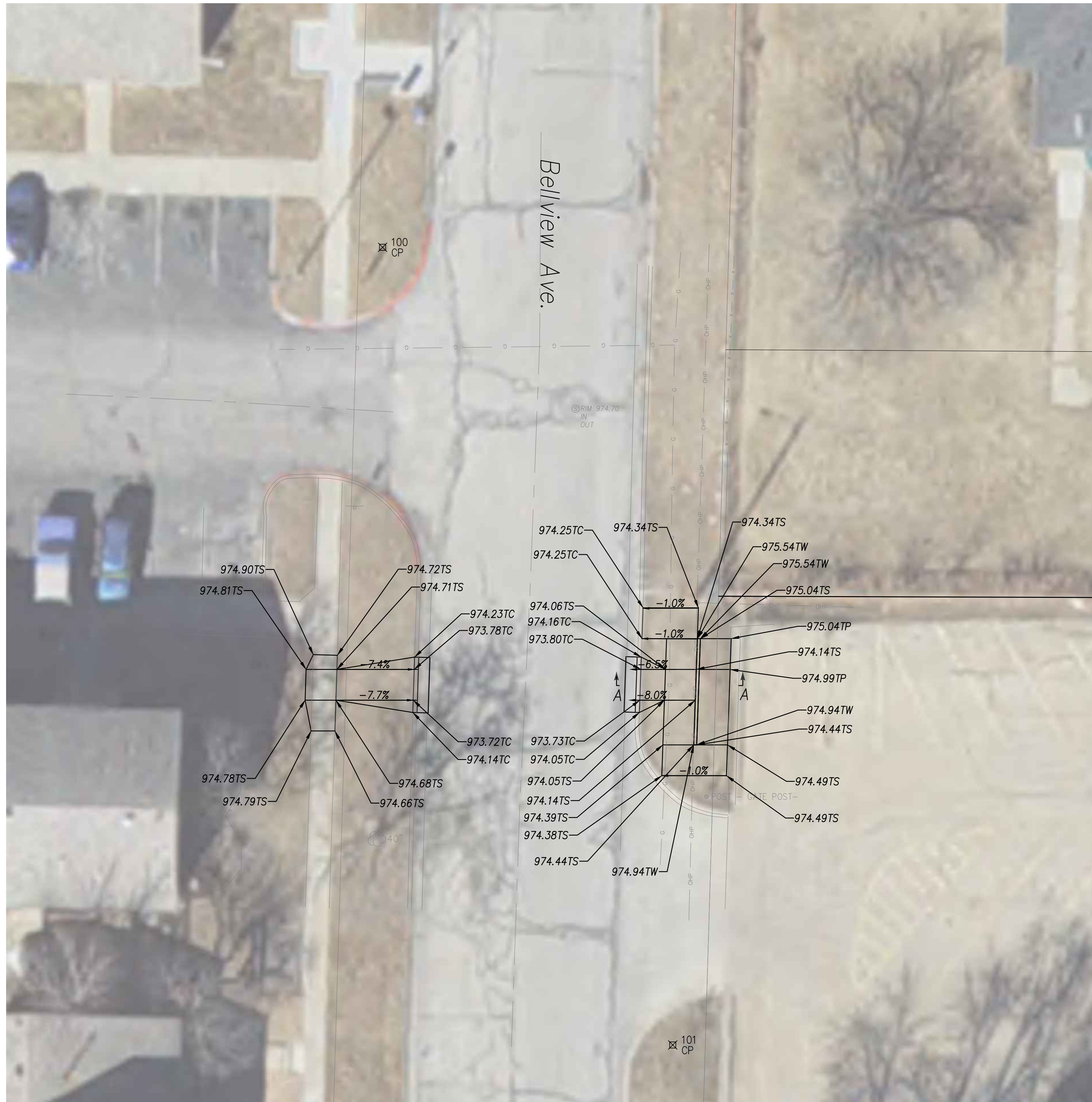
**TOPEKA**  
Public Works  
ENGINEERING  
620 SE MADISON St. • 2nd Floor • TOPEKA, KS 66607  
Phone: (785) 368-3842 • Fax: (785) 368-3881

BUS STOP SIDEWALK CONNECTIONS

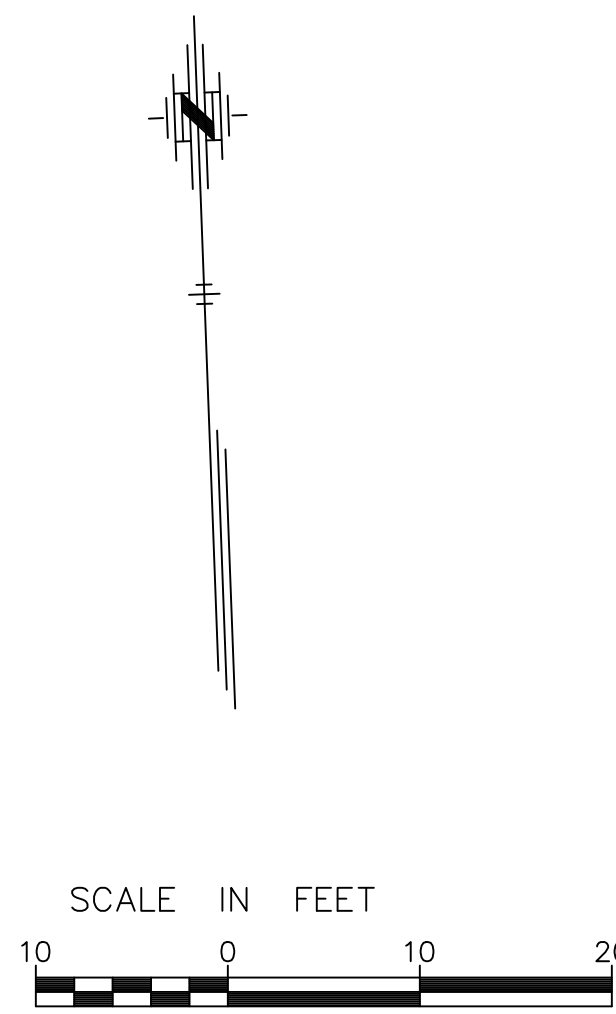
SITE PLAN  
29TH & INDIANA

DATE: April 2026  
SHEET: 05 OF 15  
PROJ.:

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SECTION A-A



NO.	DATE:	REVISION	BY:	APP'D

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ENGINEERS  
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785.272.4706

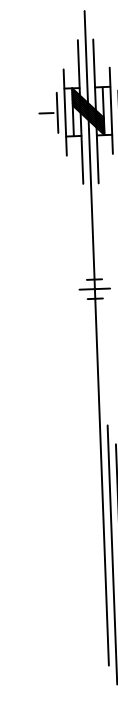
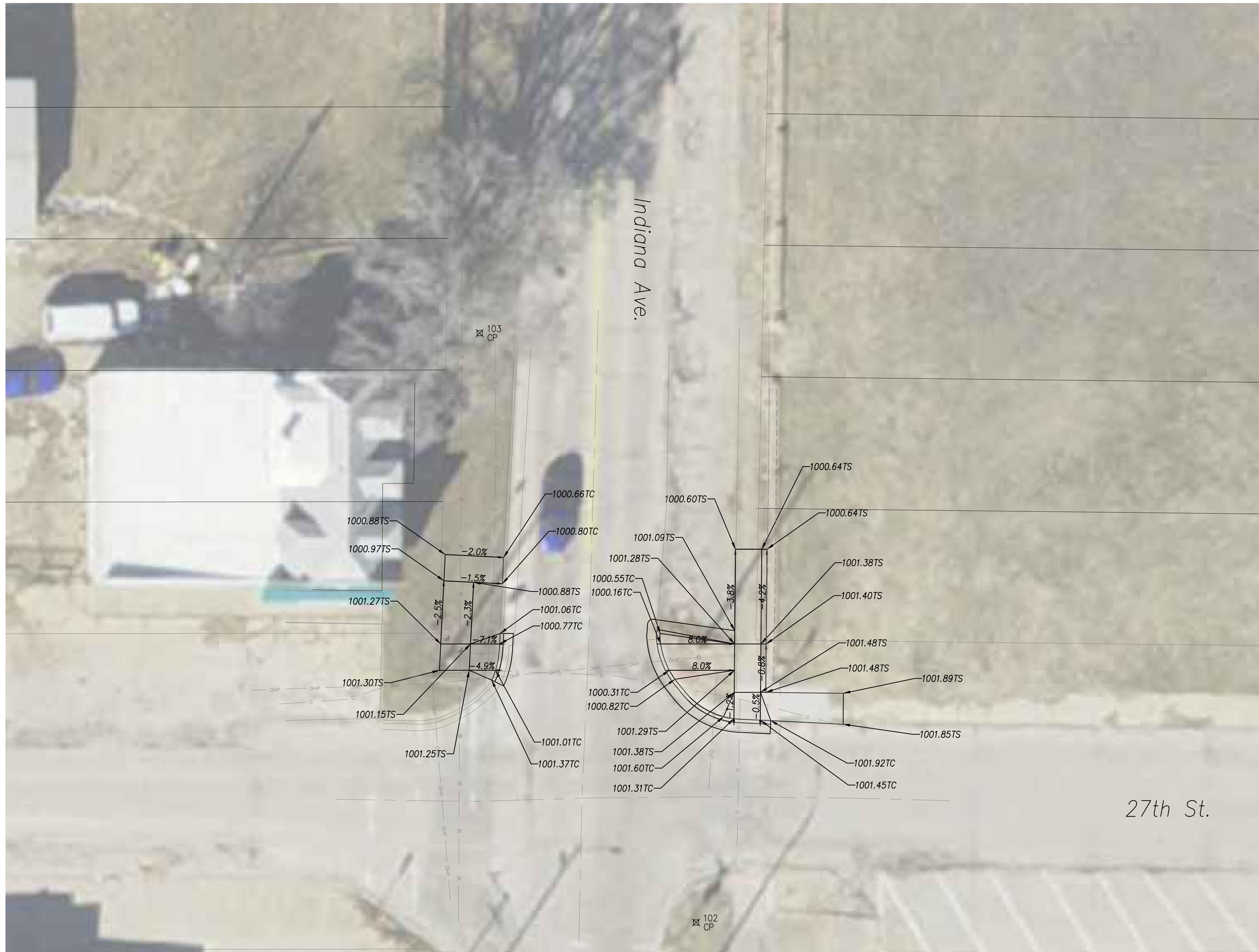
**TOPEKA**  
Public Works  
ENGINEERING  
620 SE MADISON St. • 2nd Floor • TOPEKA, KS 66607  
Phone: (785) 368-3842 • Fax: (785) 368-3881

BUS STOP SIDEWALK CONNECTIONS

GRADING  
2400 BLK. SE BELLVIEW

DATE: April 2026  
SHEET: 06 OF 15  
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APP'D BY: xx

**CFS**  
ENGINEERS  
Cook, Flatt & Strobel Engineers  
2930 SW Woodside Drive  
Topeka, Kansas 66614  
785.272.4706

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

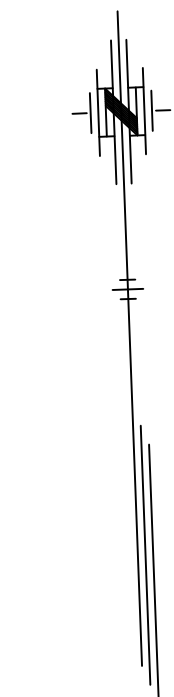
BUS STOP SIDEWALK CONNECTIONS

GRADING  
27TH & INDIANA

DATE: April 2026  
SHEET: 07 OF 15  
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SECTION B-B



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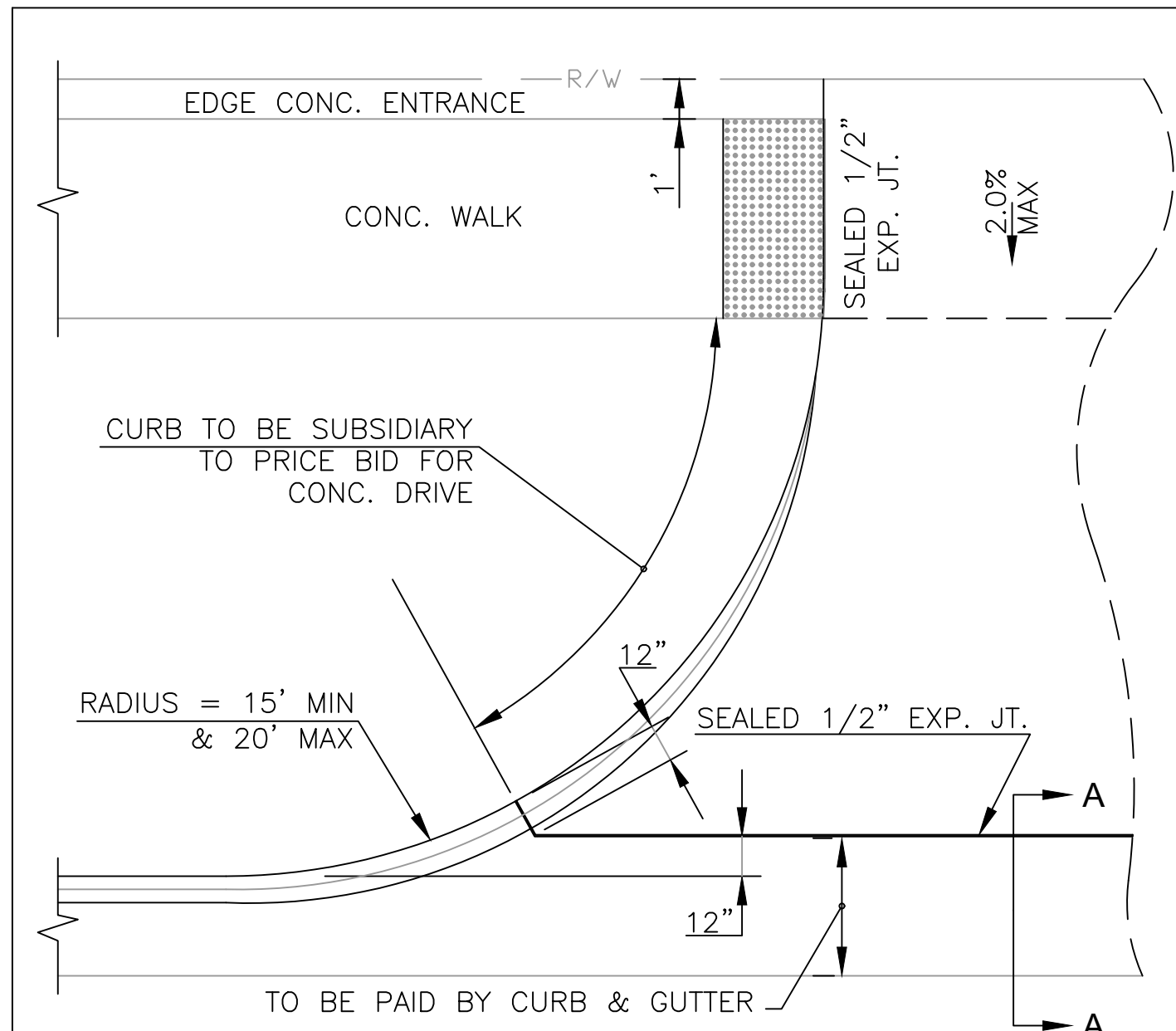
**CFS ENGINEERS**  
Cook, Flatt & Strobel Engineers  
2930 SW Woodside Drive  
Topeka, Kansas 66614  
785.272.4706

**TOPEKA Public Works ENGINEERING**  
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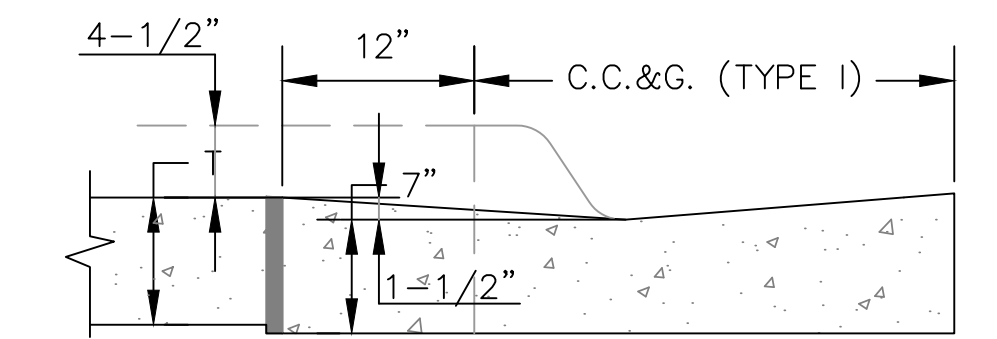
BUS STOP SIDEWALK CONNECTIONS

GRADING  
29TH & INDIANA

DATE: April 2026  
SHEET: 08 OF 15  
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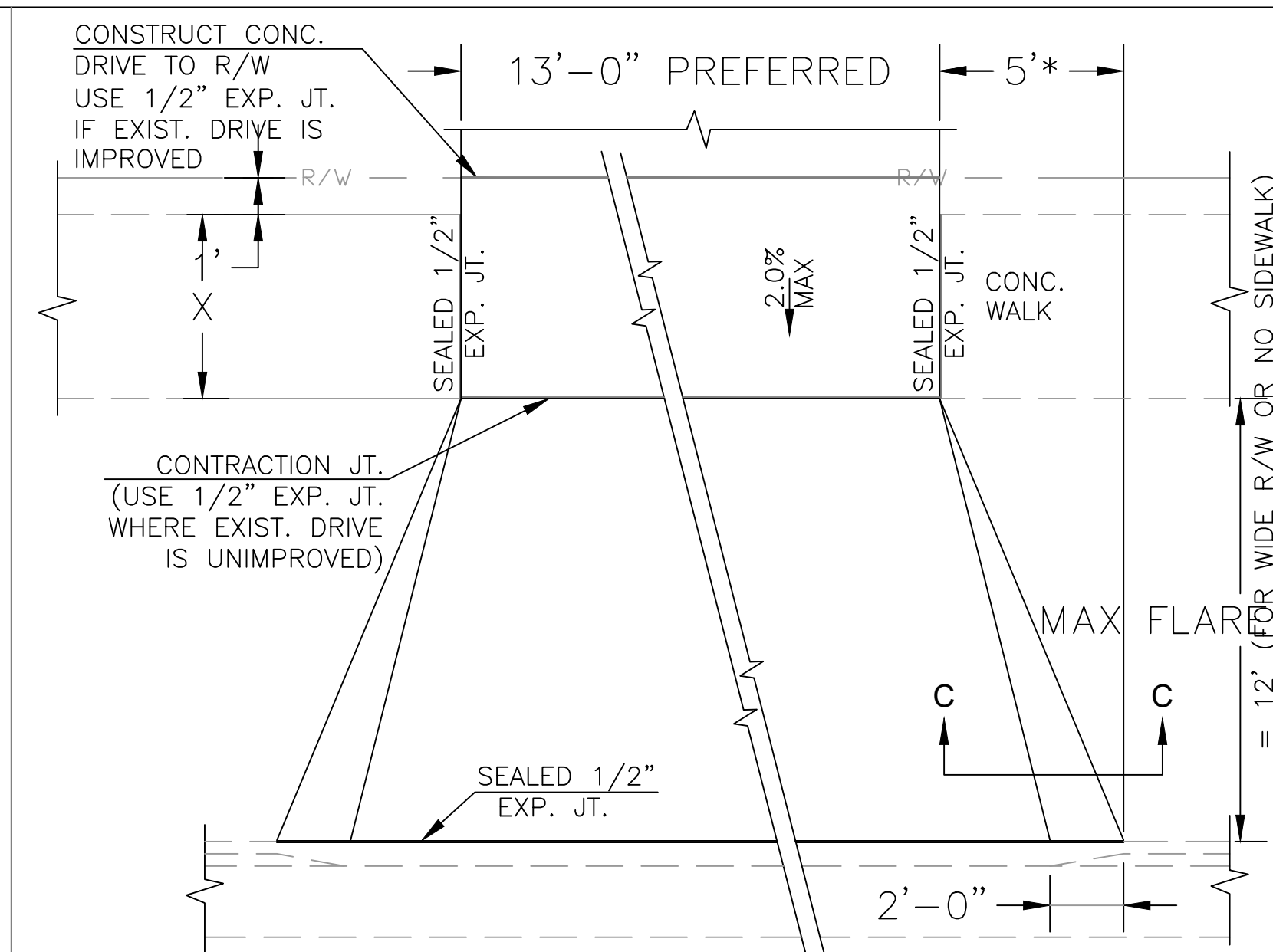


**COMMERCIAL DRIVE APPROACH**



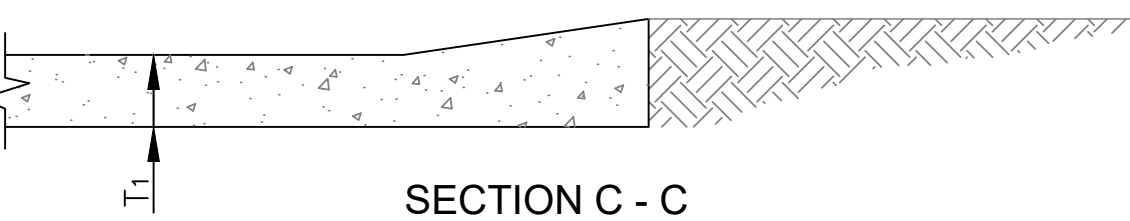
SECTION A - A

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



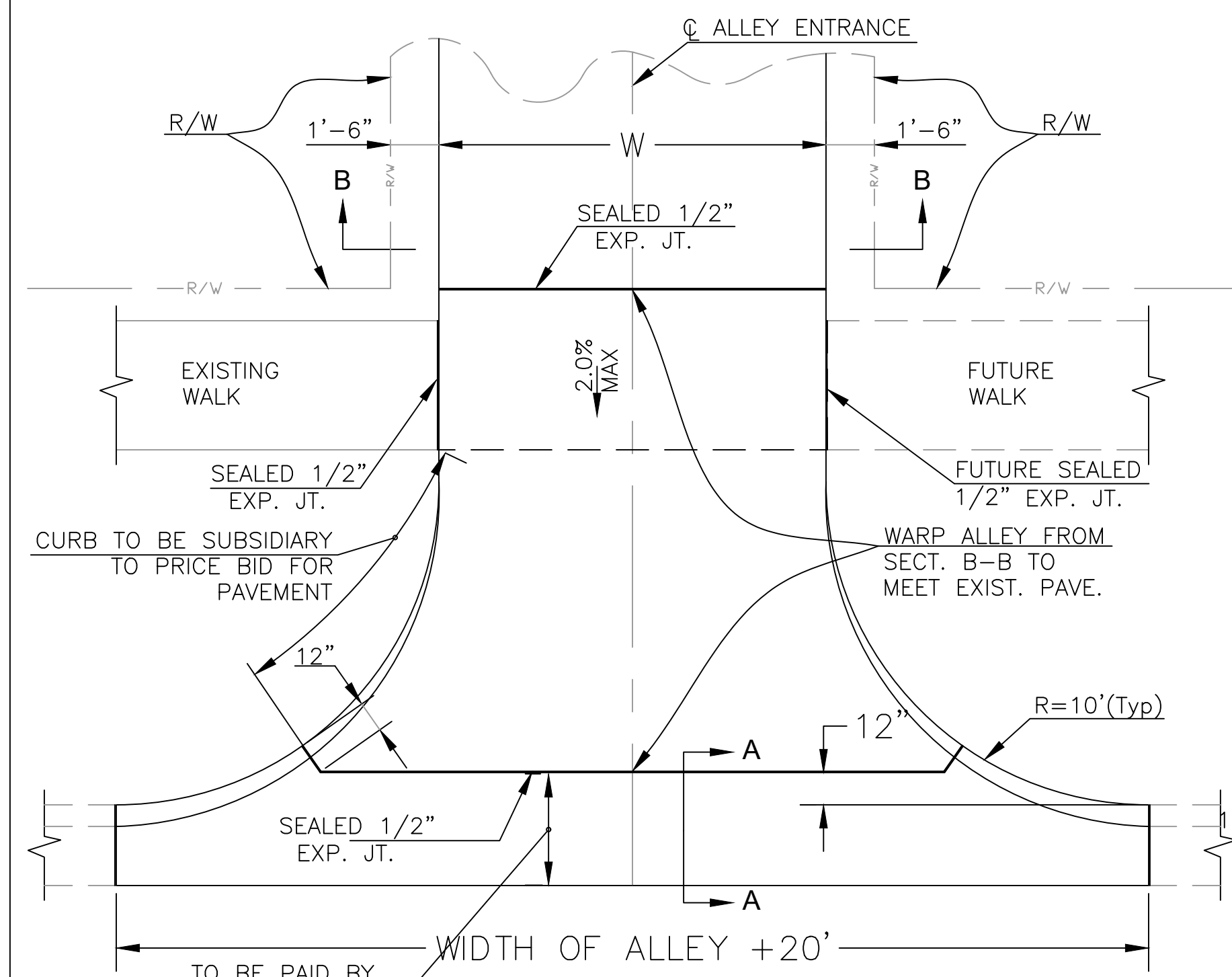
**TYPICAL PRIVATE DRIVE APPROACH**

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  $\bar{\ell}$  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.

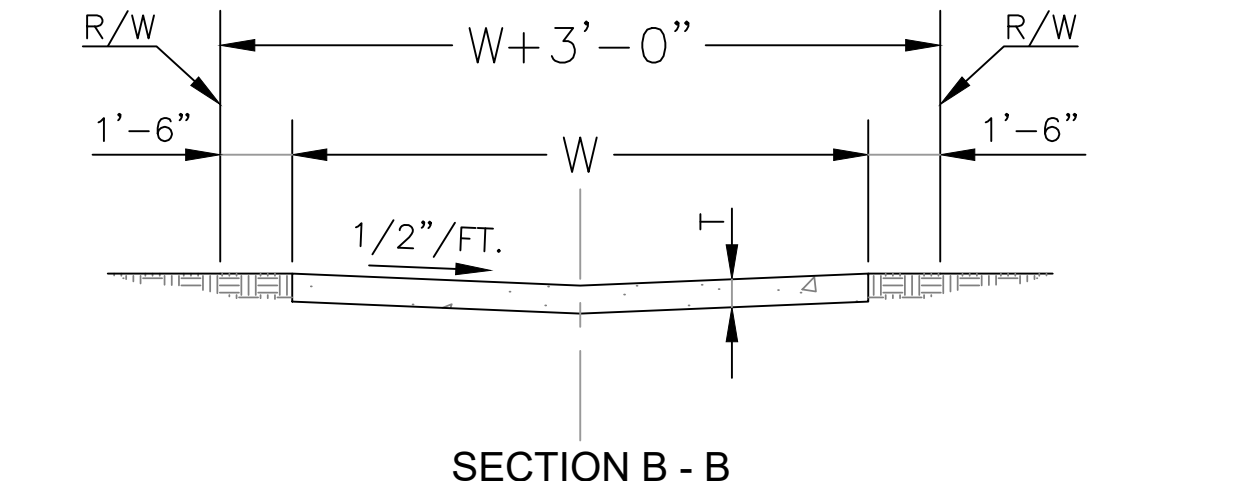


SECTION C - C

T<sub>1</sub>=6" FOR RESIDENTIAL DRIVE APPROACH AND SIDEWALK IN DRIVE ENTRANCE

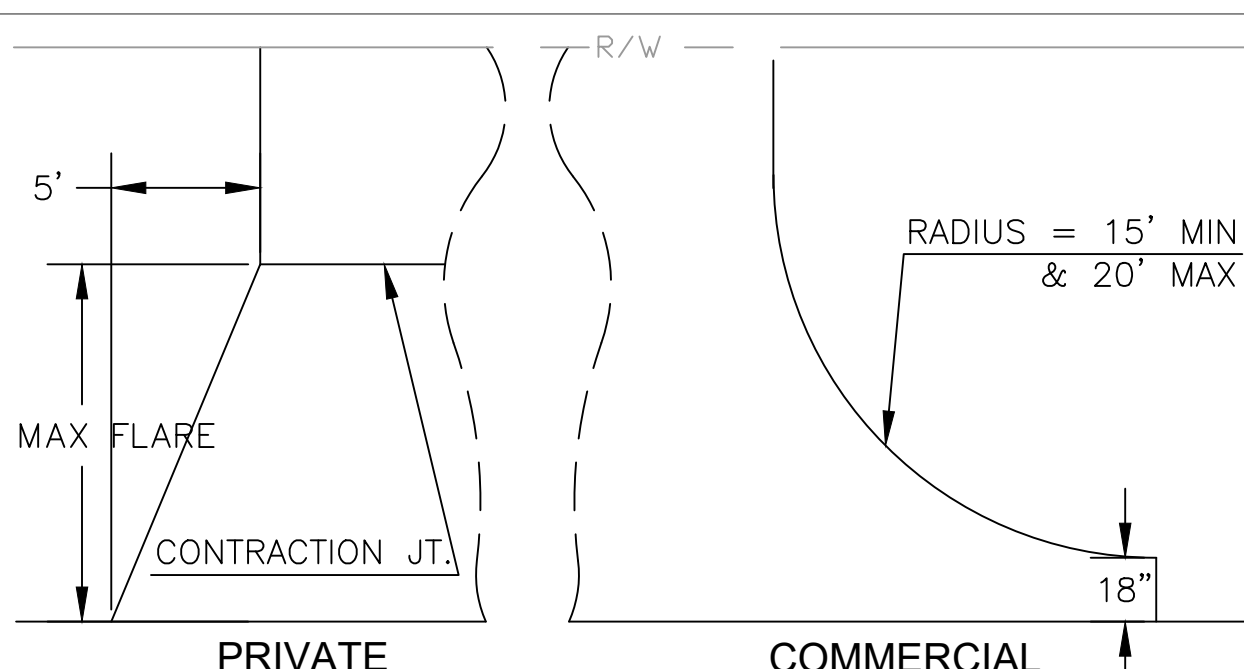


**ALLEY APPROACH**

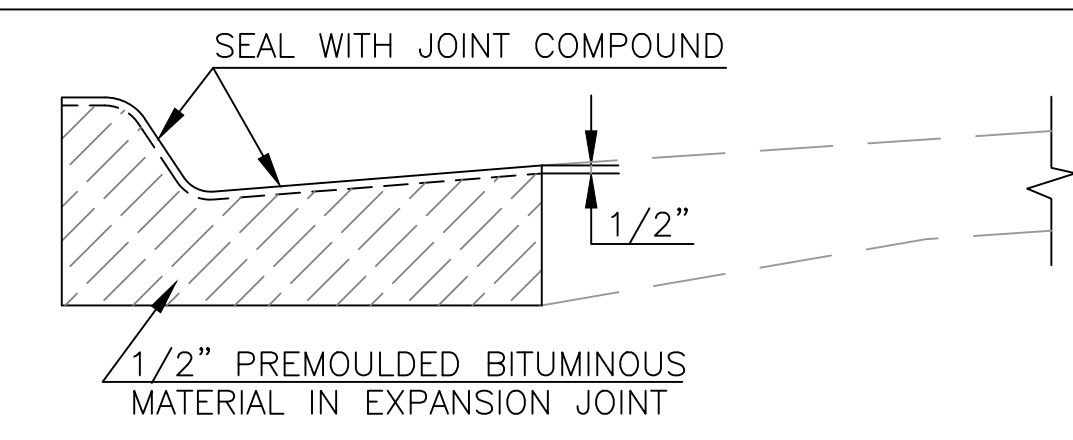


SECTION B - B

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.

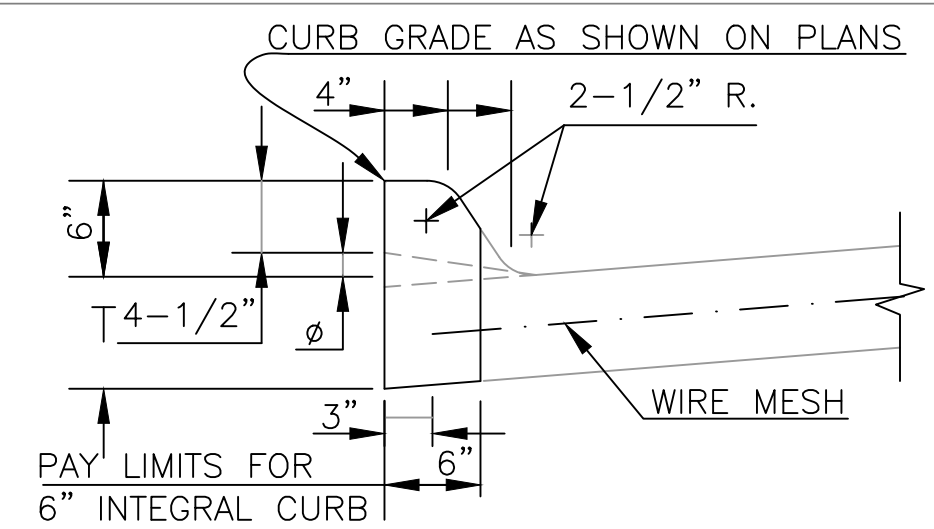


**PRIVATE DRIVE APPROACHES ON AN UNIMPROVED ROADWAY**

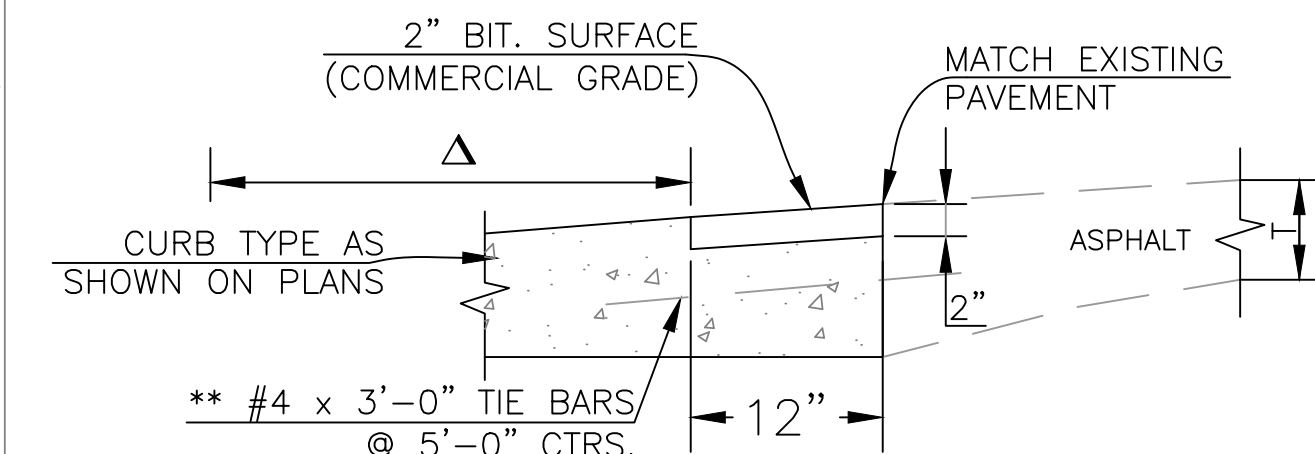


**CURB AND GUTTER EXPANSION JOINT DETAILS**

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.

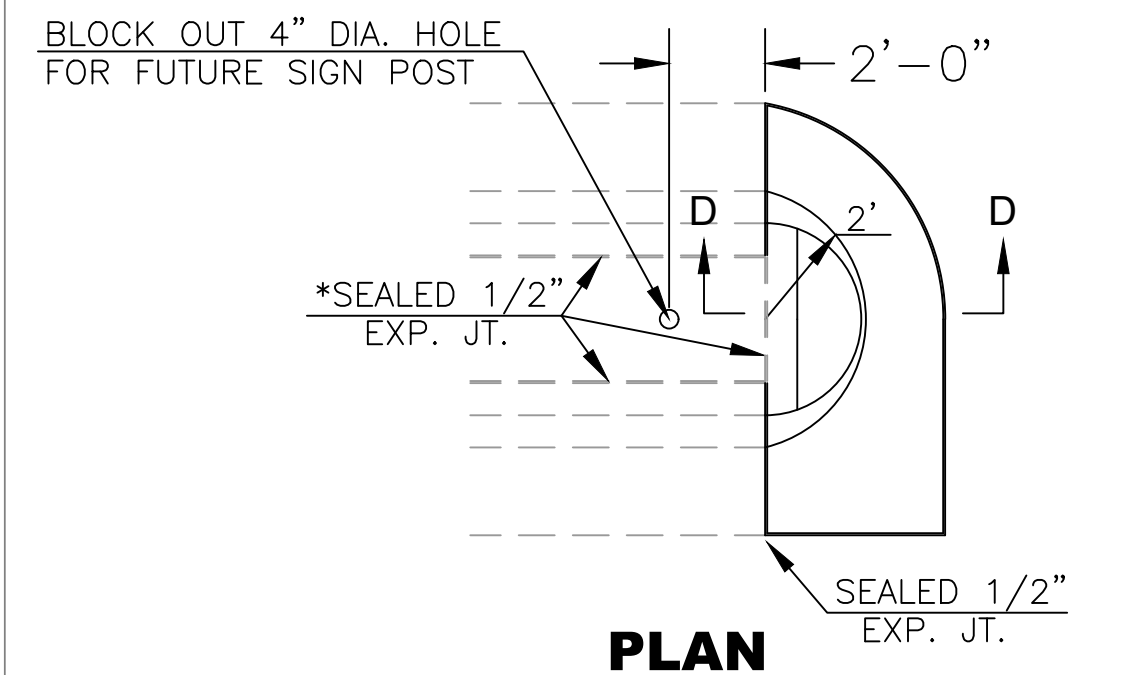


**6" INTEGRAL CURB**

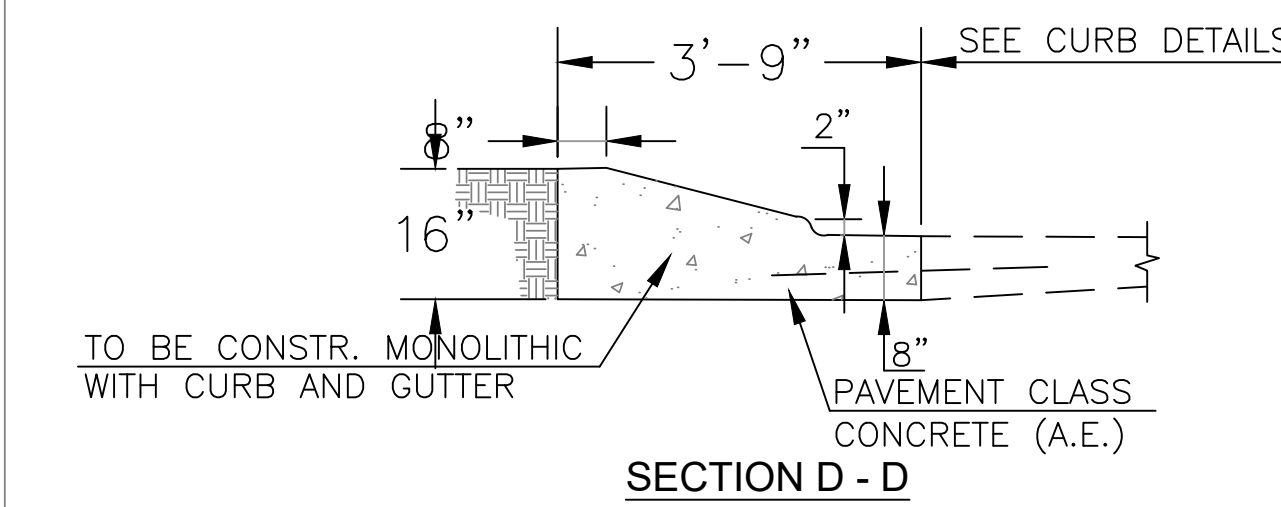


**CC&G (MODIFIED)**

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



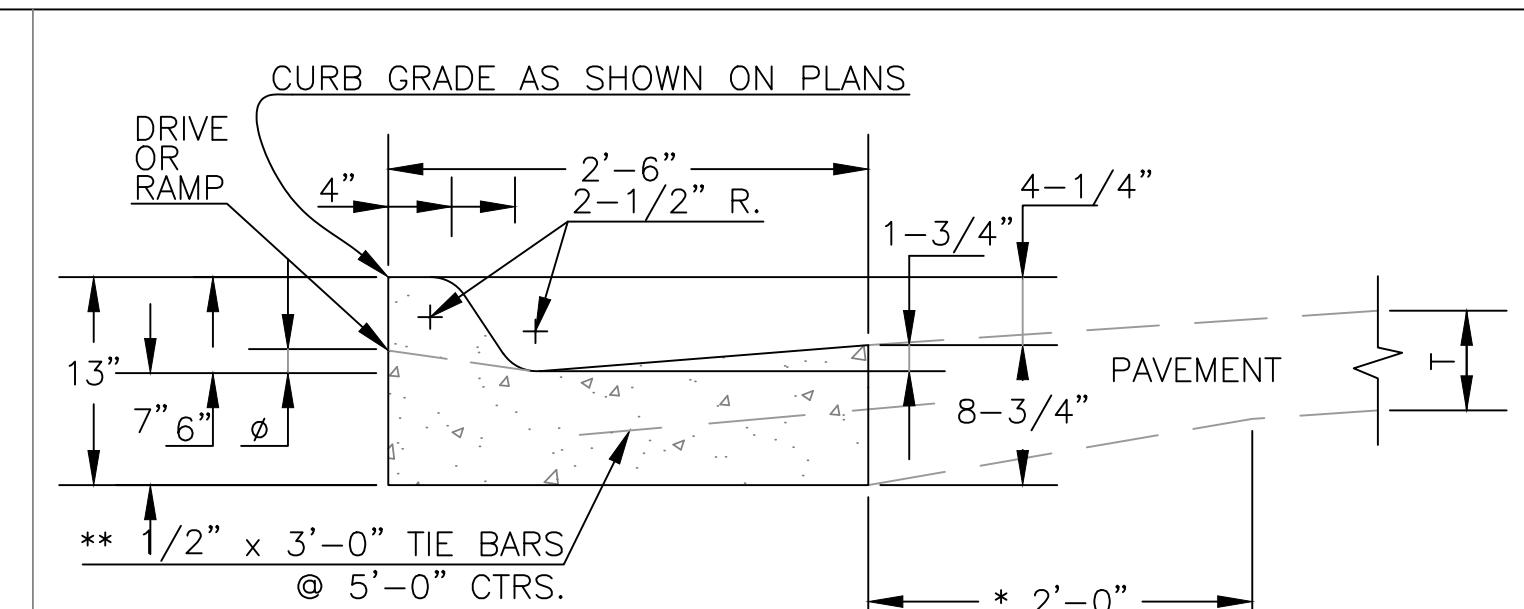
PLAN



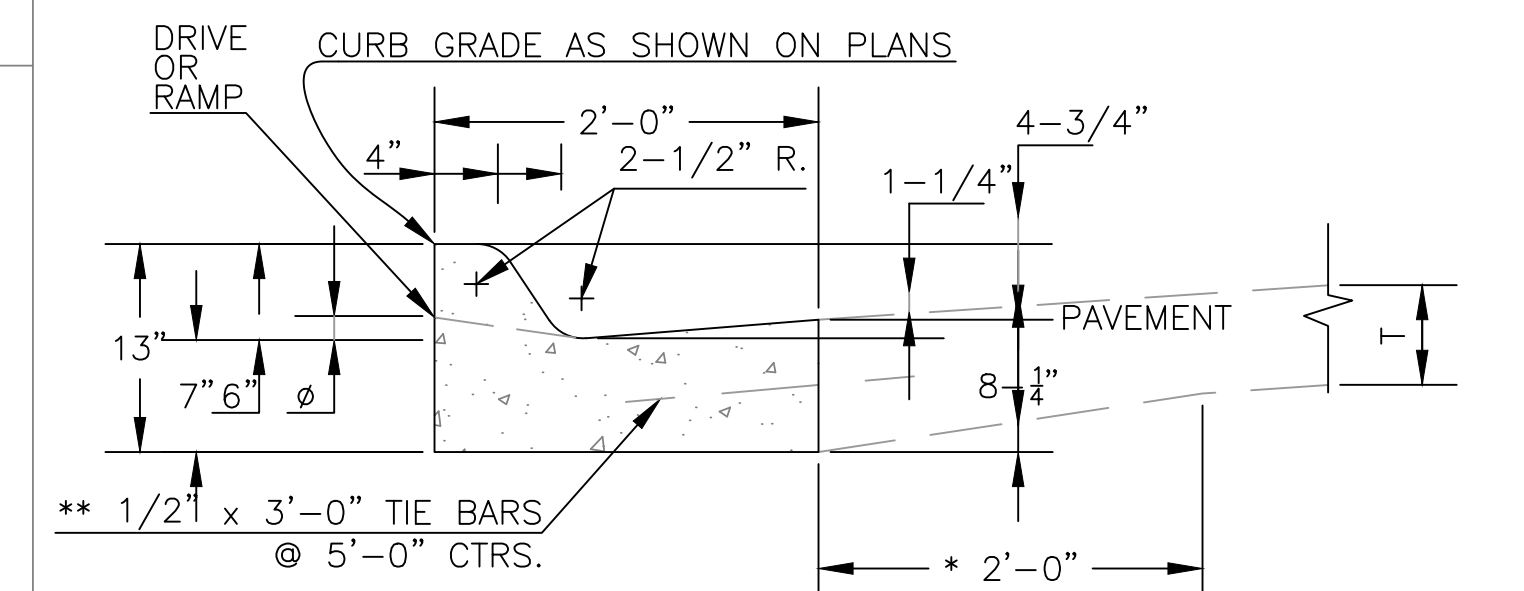
**SOLID NOSE DETAILS**

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.

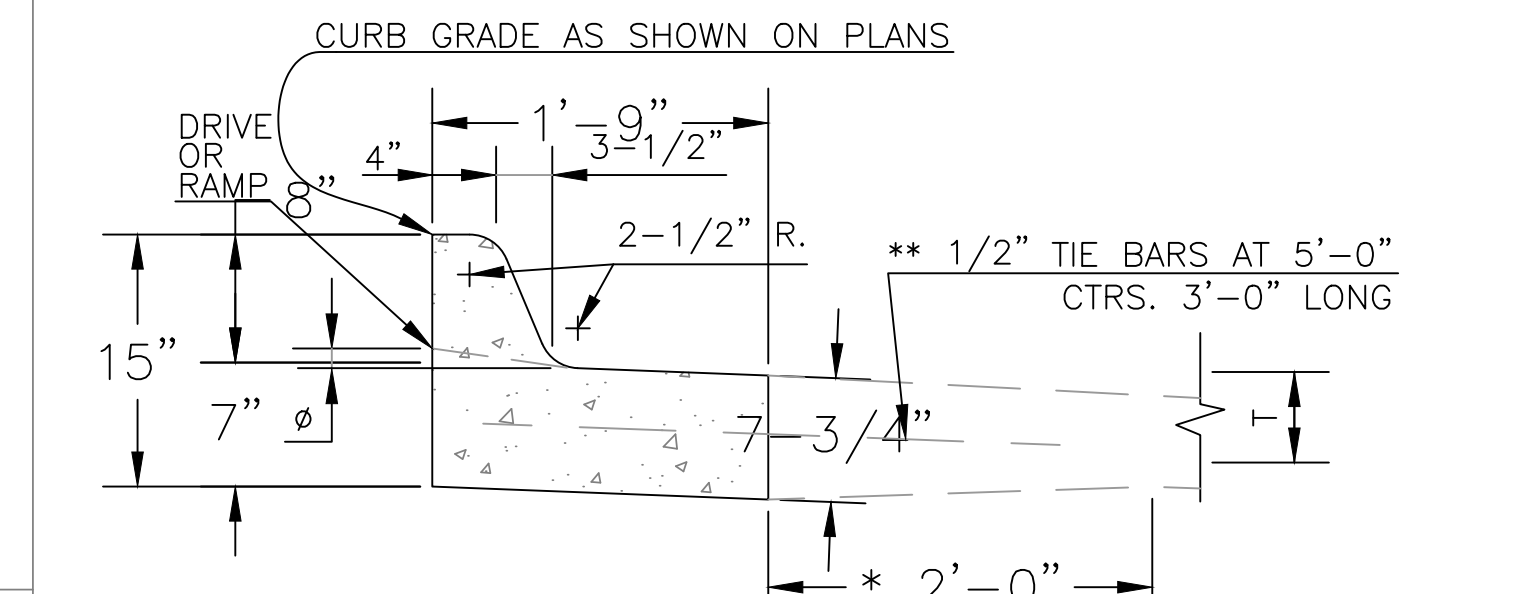
\* OMIT SEALED 1/2" EXPANSION JOINT WHEN SURFACE MATERIAL USED IN MEDIAN IS OTHER THAN CONCRETE.



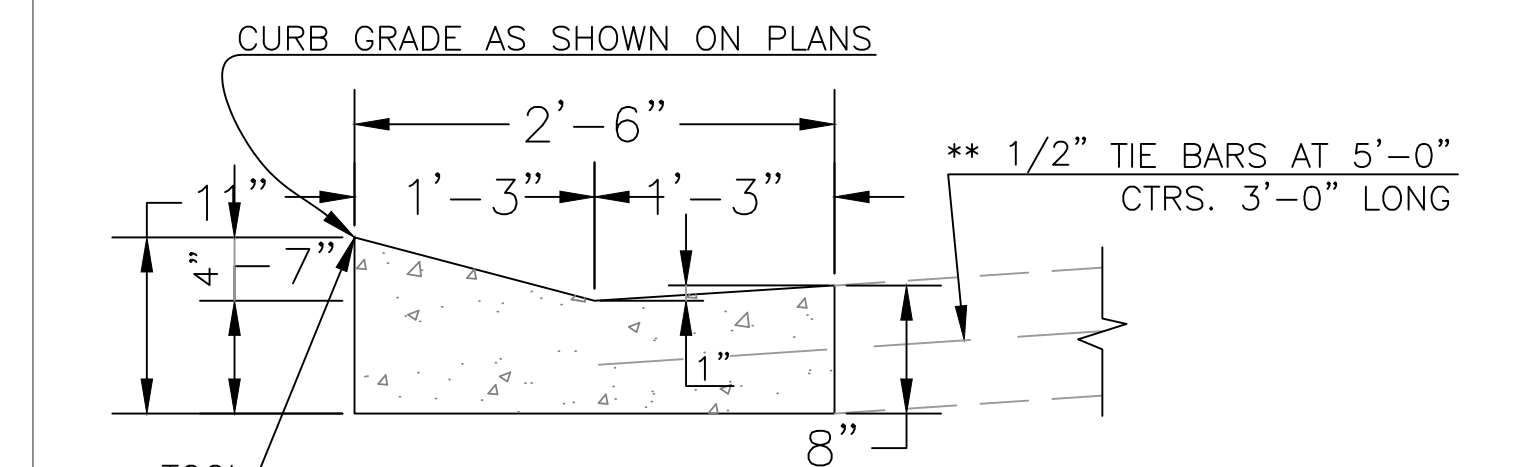
**COMBINED CURB & GUTTER-TYPE I**



**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

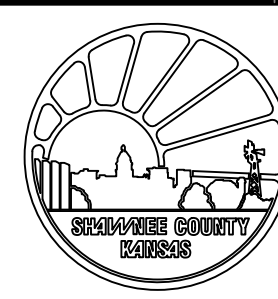
\* THE CONTRACTOR HAS THE OPTION OF MAINTAINING OR TRANSITIONING AS SHOWN AT NO ADDITIONAL COST.

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

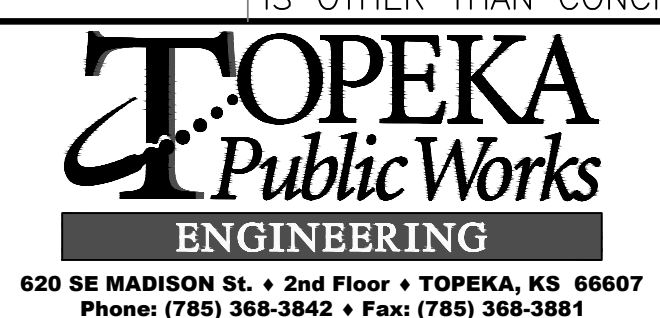
∅ 1-1/2" FOR DRIVE ENTRANCES AND 3/4" FOR SIDEWALK RAMP

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 & remv. 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: rm/mc  
 APP'D BY: R. C. [Signature]



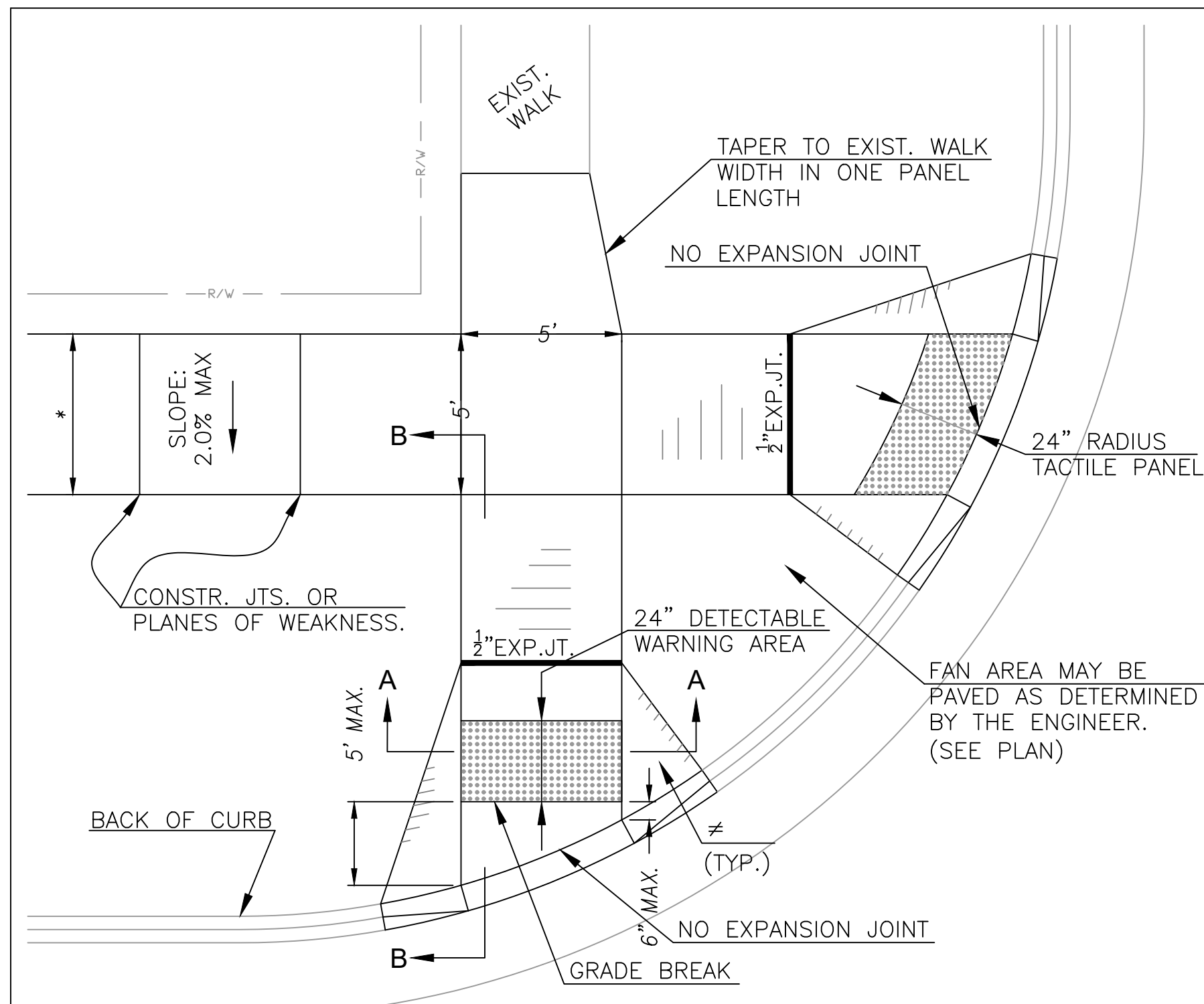
**SHAWNEE COUNTY, KANSAS PUBLIC WORKS DEPARTMENT**  
 1515 NW SALINE  
 TOPEKA, KS 66618  
 (785) 233-7702



**STANDARD DETAILS (MODIFIED)**

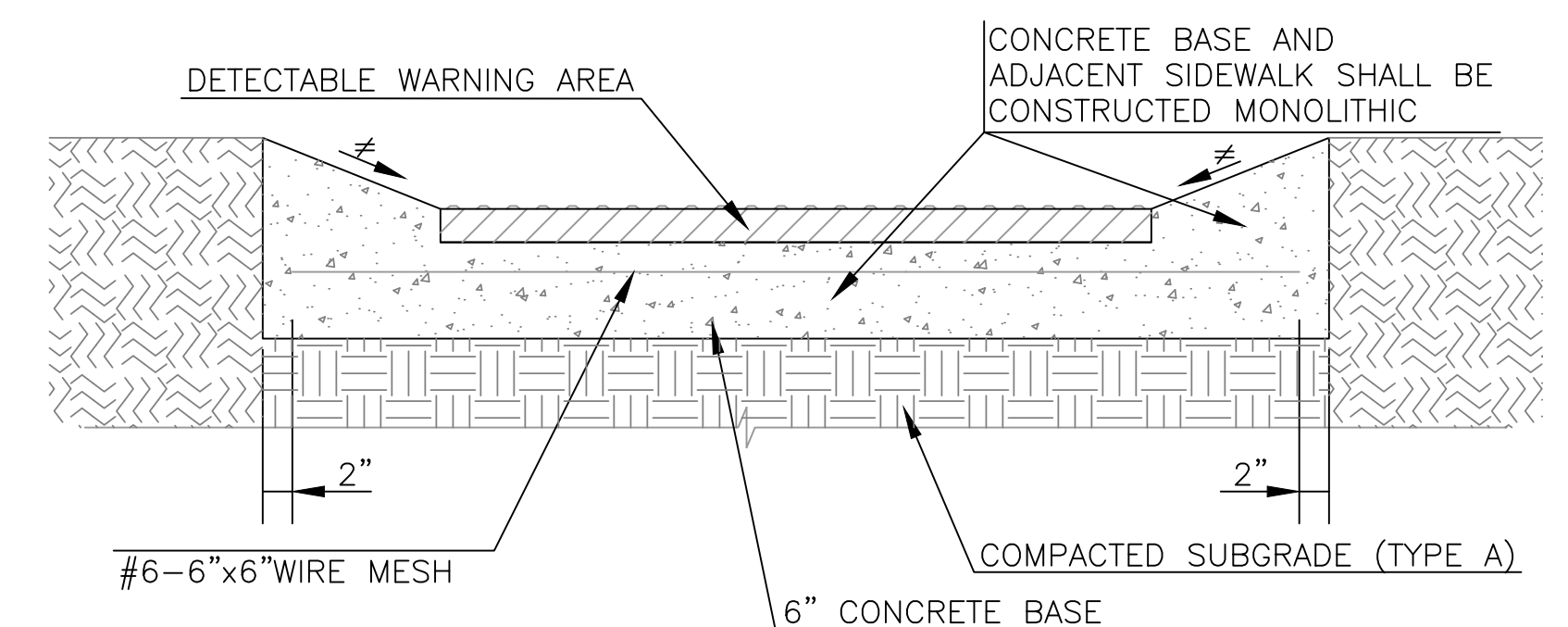
**CURB & GUTTER AND APPROACH DETAILS (DT-003)**

DATE: April 2026  
 SHEET: 09 OF 15  
 PROJ.: 241071.05



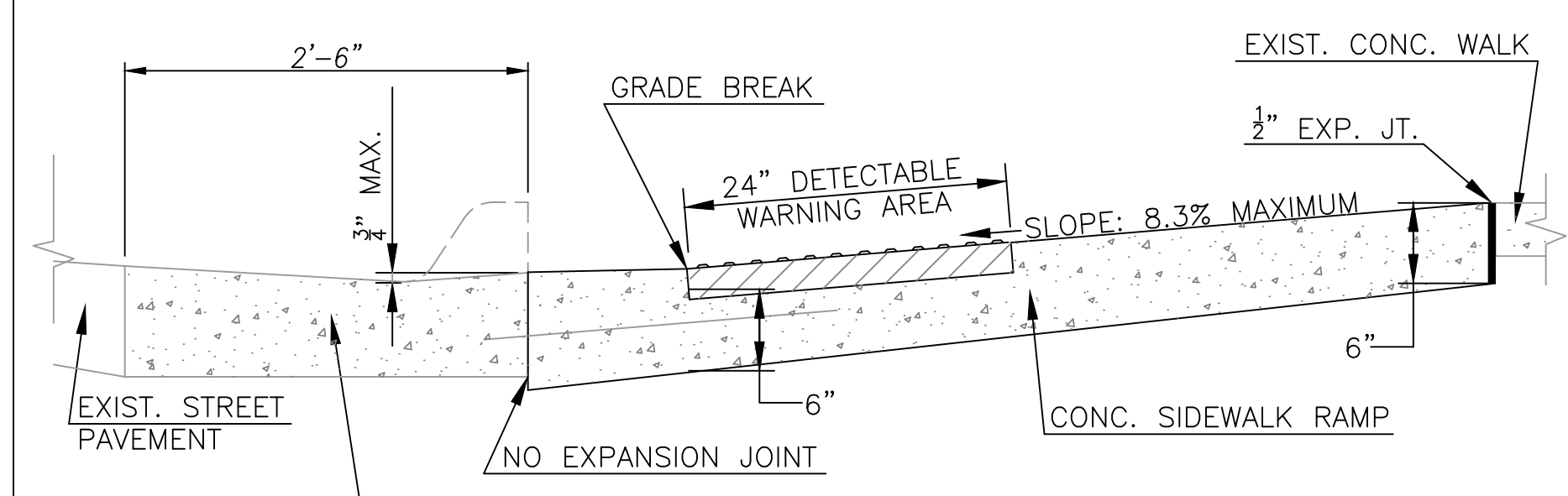
**SIDEWALK DETAILS**

- NOTES:  
 1. FAN AREA PAVEMENT TO BE PAID FOR AS 6" CONCRETE.  
 2. EXPANSION JOINTS SHALL BE THE CONSTRUCTION LIMITS OF 6" CONCRETE IN RAMP.  
 \* 5' - PRINCIPAL ARTERIALS, MINOR ARTERIALS, COLLECTORS  
 4' - SUB-COLLECTORS, LOCALS  
 ≠ 10:1 MAXIMUM AT PAVED FAN AREA, 4:1 AT STANDARD RAMP



**SECTION A-A  
TYPICAL SECTION OF DETECTABLE WARNING SYSTEM**

≠ 10:1 MAXIMUM AT PAVED FAN AREA, 4:1 AT STANDARD RAMP

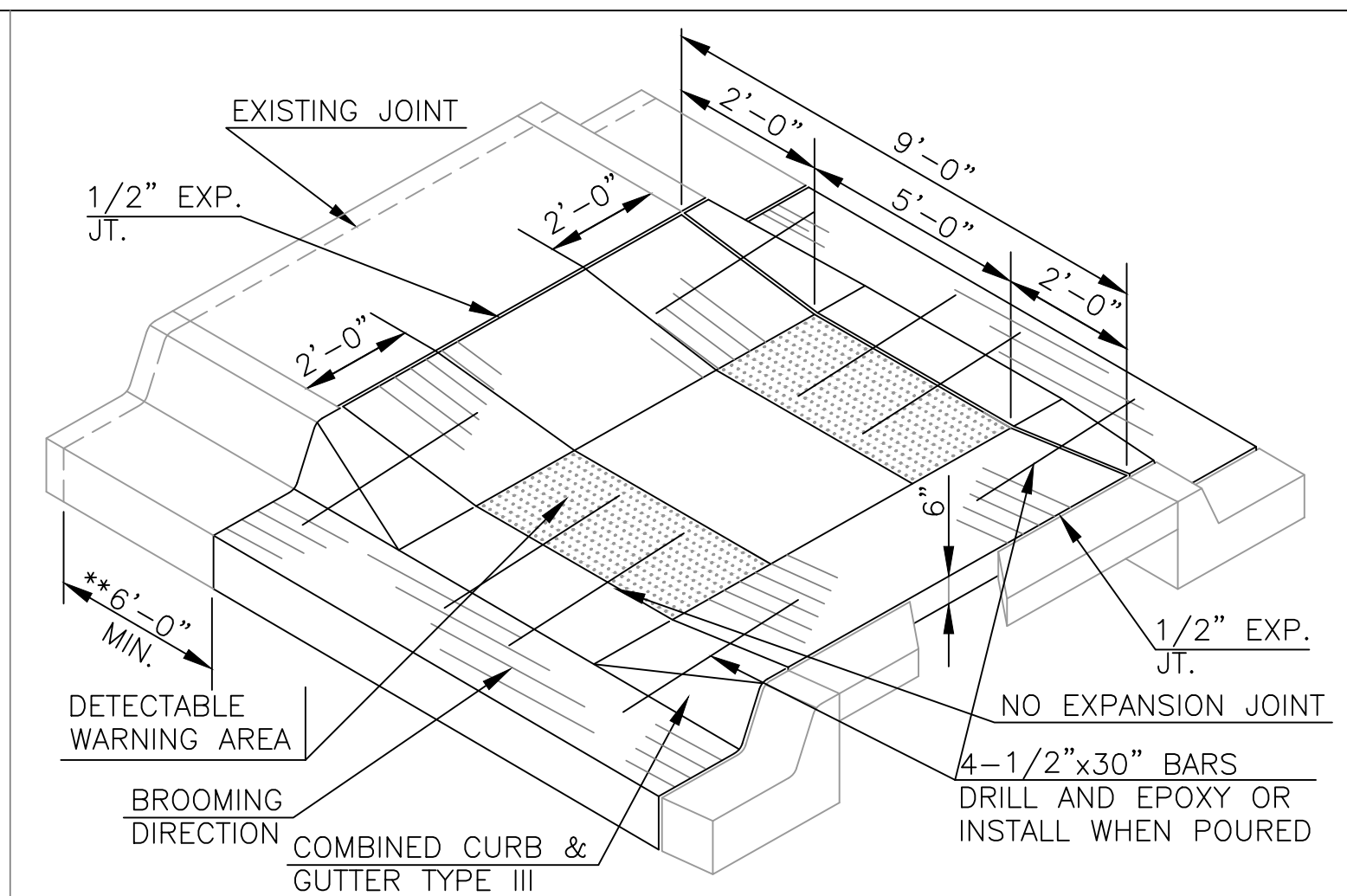
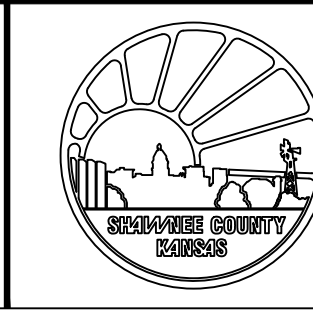


**SECTION B-B  
SIDEWALK RAMP DETAILS**

- NOTES:  
 1. RAMP TO BE PAID FOR AS SIDEWALK RAMP. CURB AND GUTTER TO BE INCLUDED IN THE PRICE BID FOR COMBINED CURB AND GUTTER TYPE I.  
 2. SIDEWALK RAMP SHALL OBTAIN A MINIMUM OF 6" ABOVE F<sub>L</sub> FOR NEW SIDEWALK CONSTRUCTION.

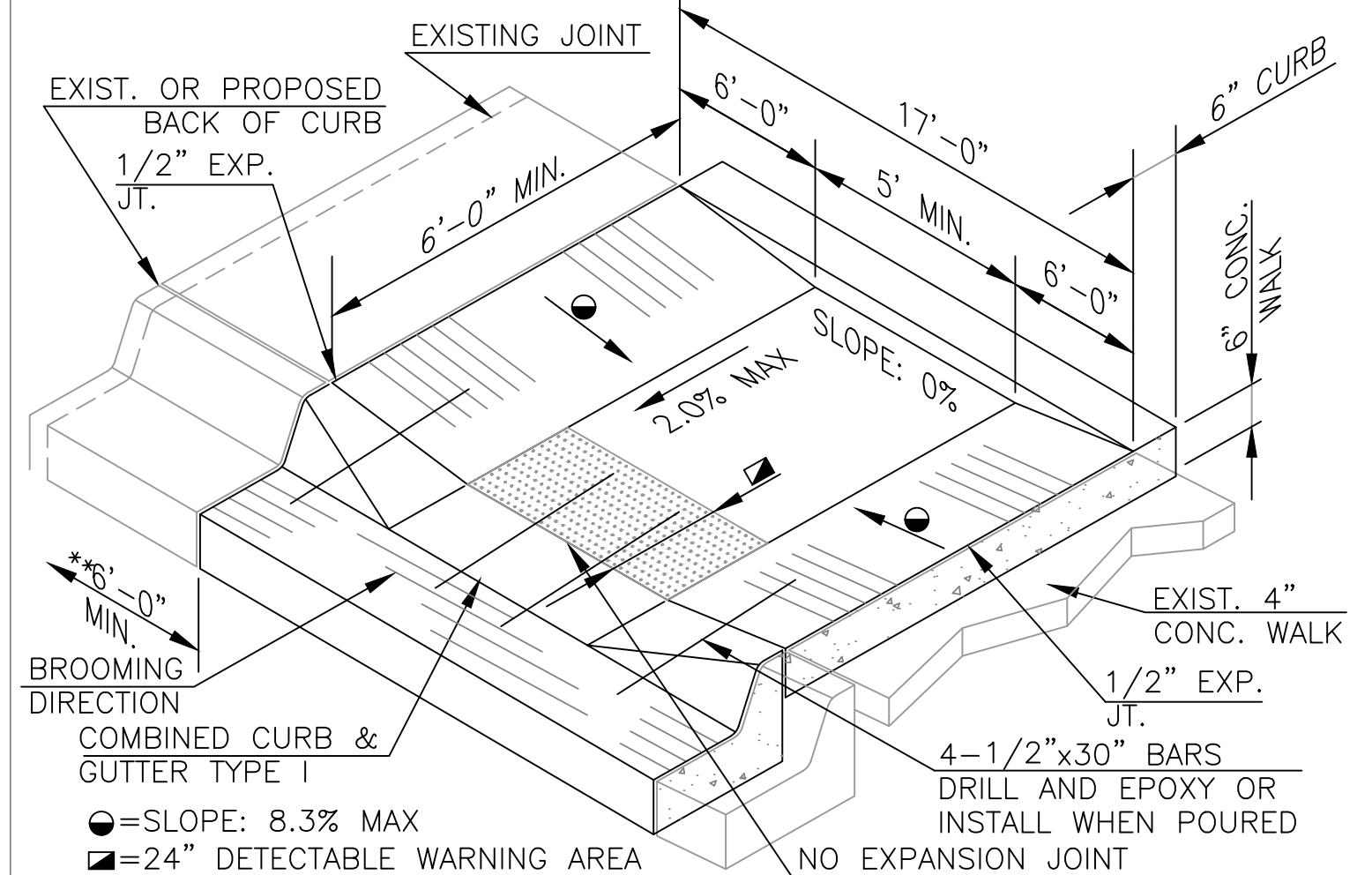
7	May 2016	Lightened lines, added "No Exp. Jt."@B/C	DHS	SB
6	June 2015	Added Grade Break at & Updated Notes	DHS	SB
5	March 2013	Mod. bar spacing @ ret wall & bar size	DHS	SB
4	Feb. 2013	Add. Radial Ramps and Rearranged sheet	DHS	BC
3	Aug. 2011	Add. Access-Tile Remv.Sys. to Spec.Req.	DHS	SB
2	Dec. 2009	Mod. S/W Details & cross slope to 2%	DHS	SB
1	Feb. 2008	Add. Armor-Tile Sys. & Mod. All Iso. Det.	DHS	SB
NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: *rm/mc*  
 APP'D BY: *R. Anthony Camp*



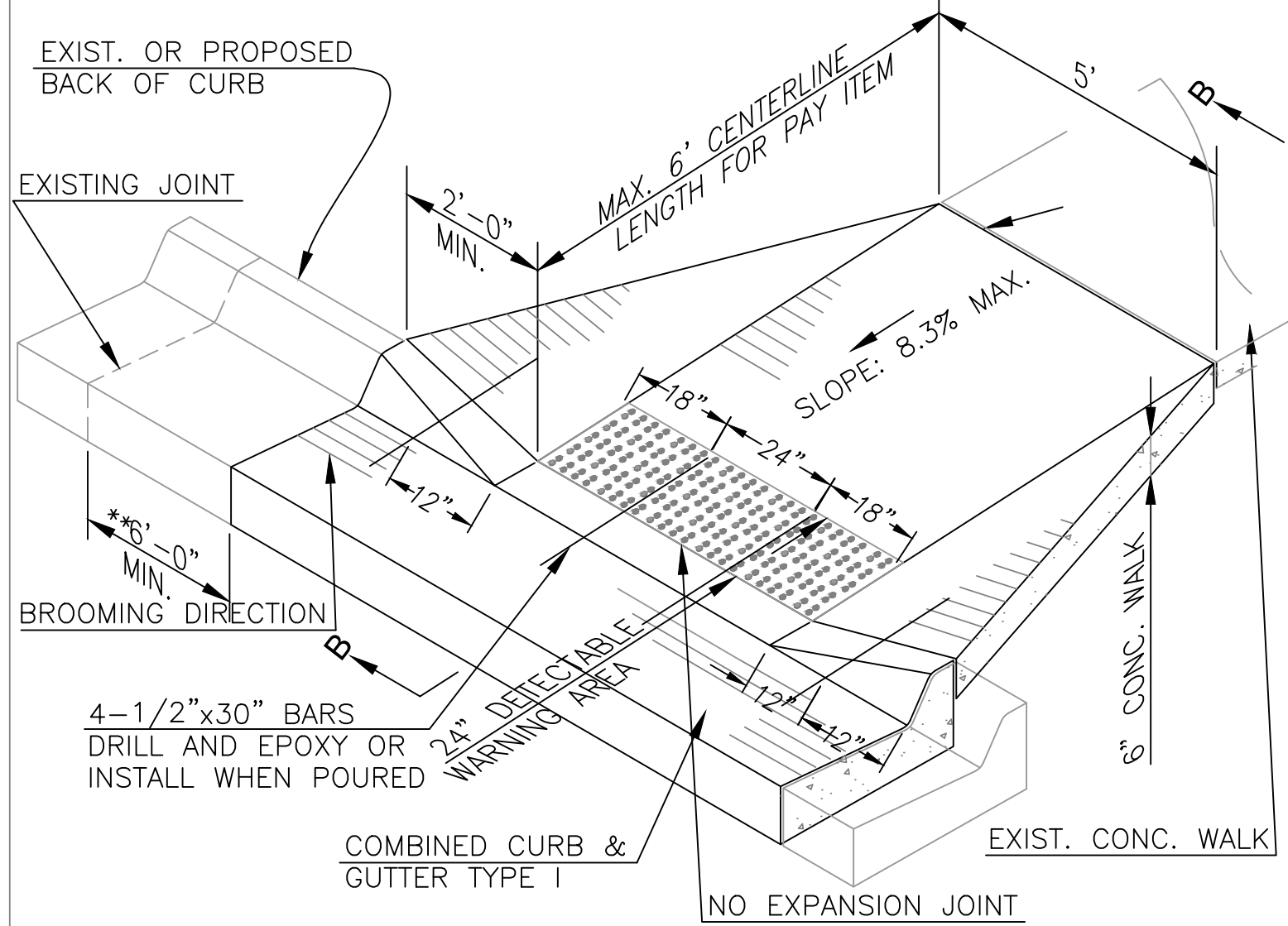
**ISOMETRIC OF MEDIAN RAMP CROSSING**

NOTE:  
 MEDIAN RAMP CROSSING SHALL BE BUILT AT LOCATIONS SHOWN ON THE PLANS. CONCRETE MEDIAN CROSSINGS TO BE PAID FOR AS SIDEWALK RAMP.



**ISOMETRIC OF RAMP WITH ADJACENT WALK SHOWN**

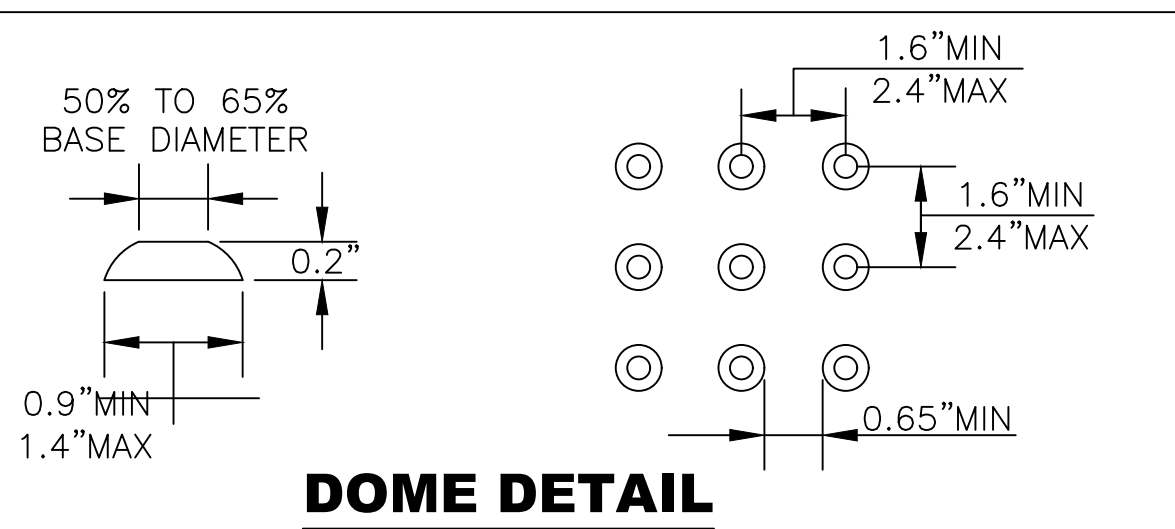
\*\* IF CURB AND GUTTER AND/OR SIDEWALK TO BE REMOVED IS WITHIN 6'-0" OF AN EXISTING JOINT, REMOVE CURB AND GUTTER AND/OR SIDEWALK BACK TO EXISTING JOINT. JOINTS ARE TO BE PLACED AS PER SECTION 5, SUBSECTION 8 OF CITY/COUNTY STANDARD TECHNICAL SPECIFICATIONS.



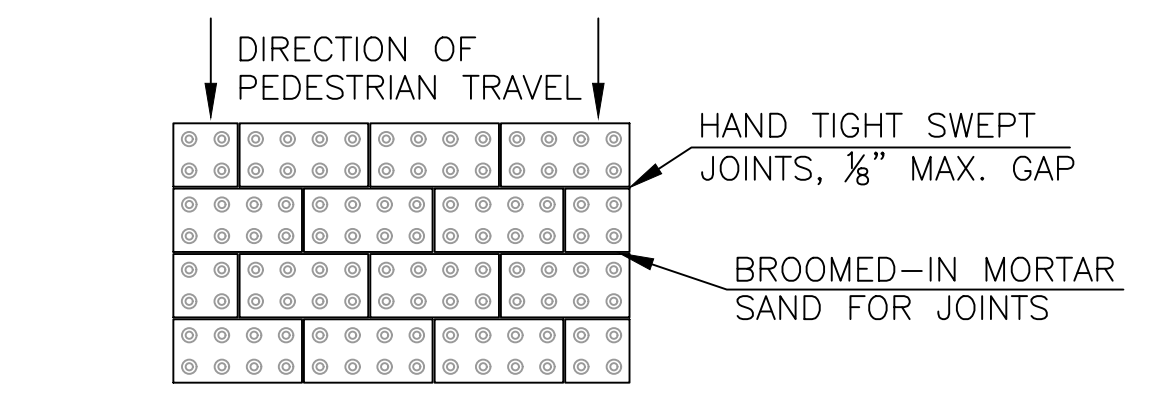
**ISOMETRIC OF RAMP WITH PERPENDICULAR WALK SHOWN**

**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

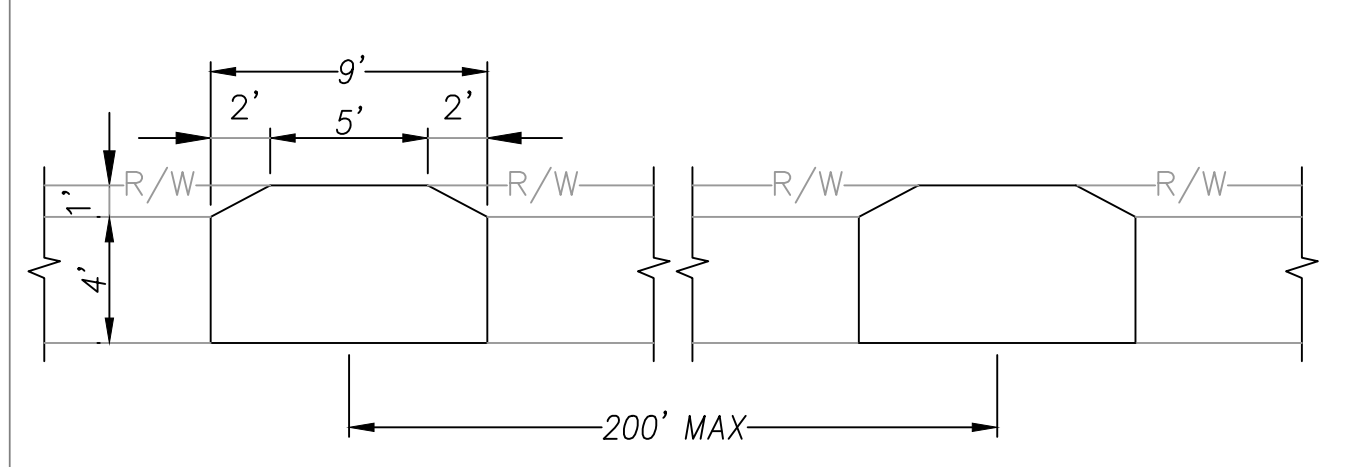


**DOMES DETAIL**

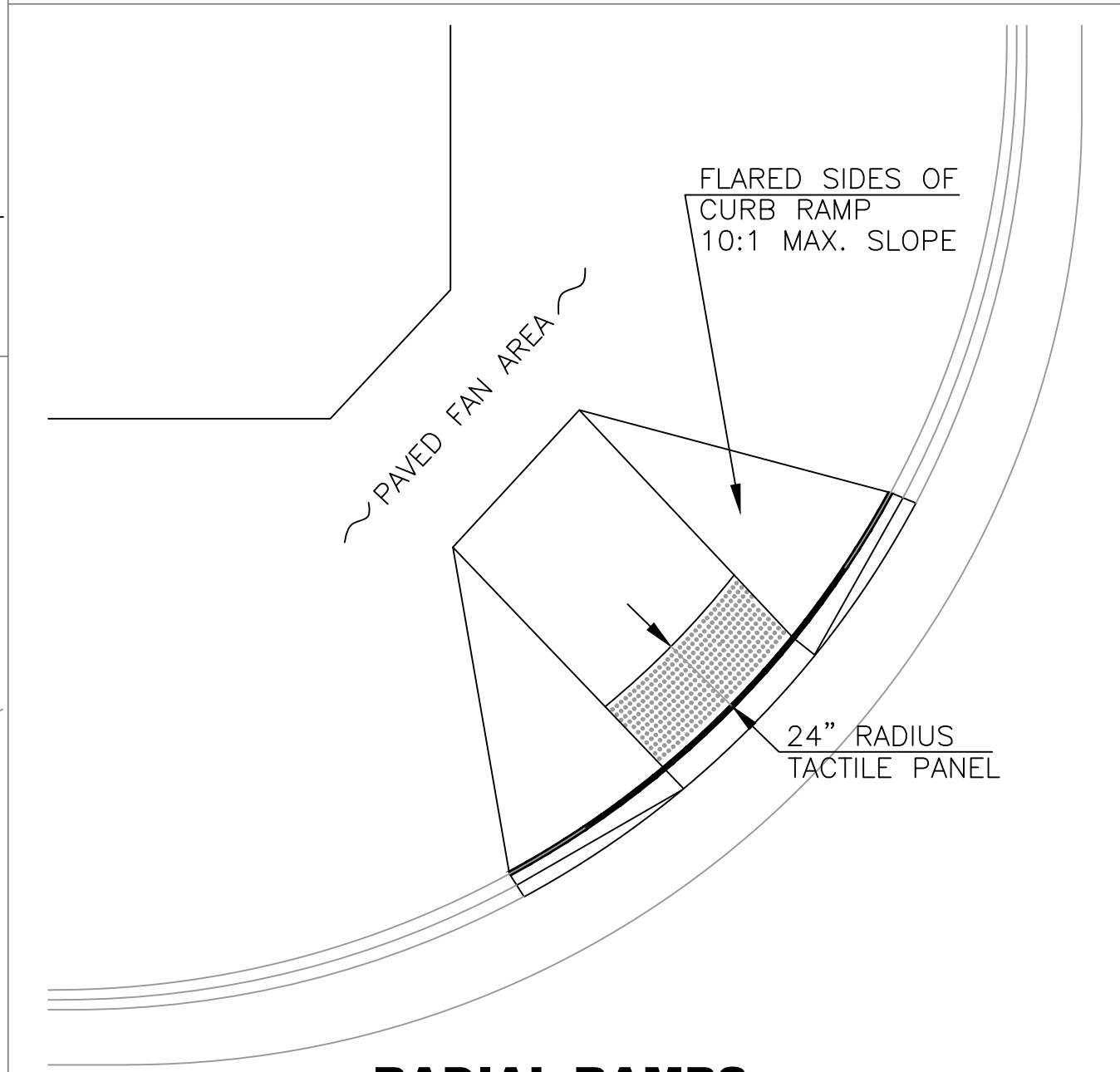


**RUNNING BOND/PARALLEL ALIGNMENT AND JOINT DETAIL**

Installation pattern for detectable warning paving bricks

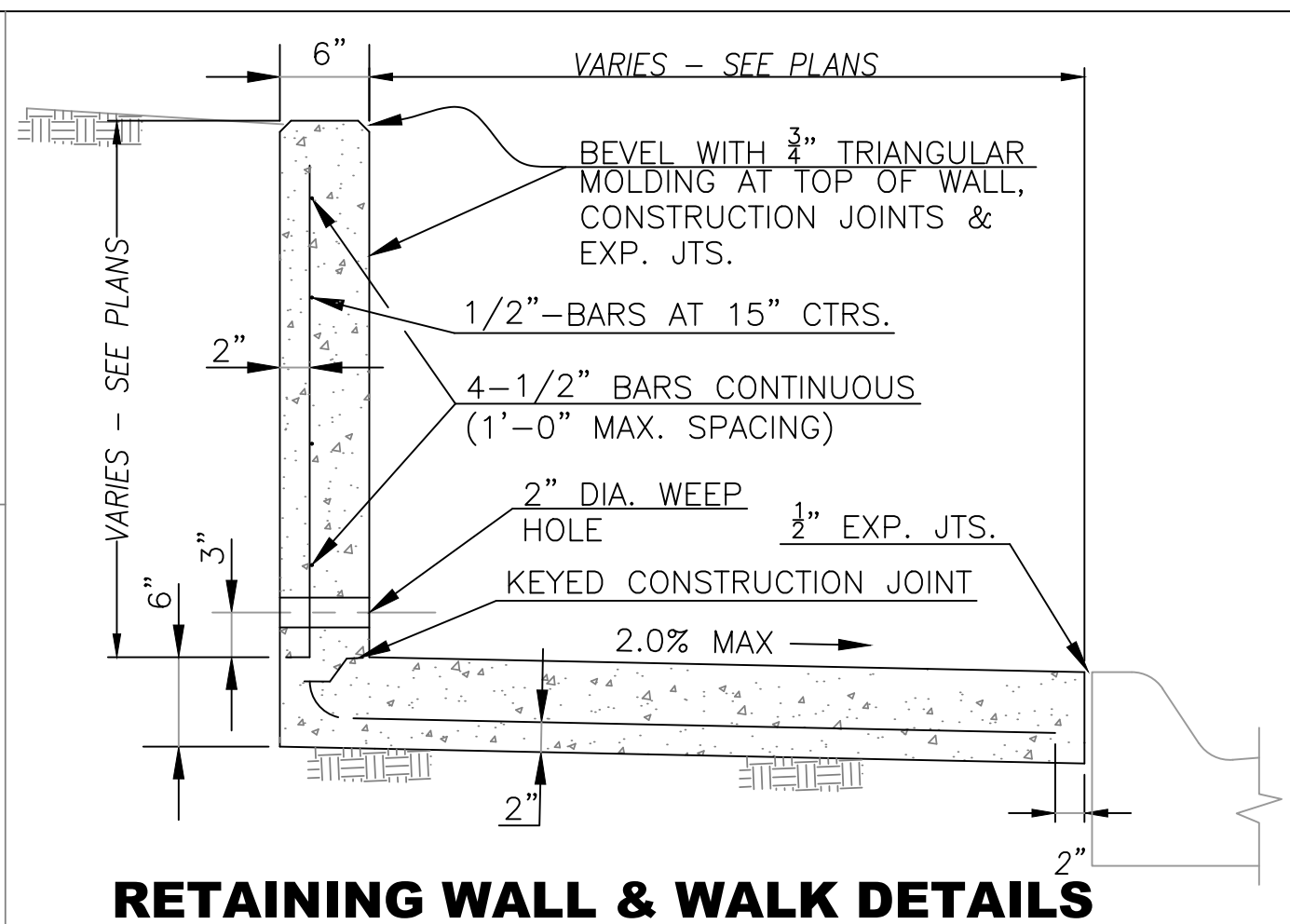


**TYPICAL WHEELCHAIR PASSING ZONE FOR SUB-COLLECTOR AND LOCAL STREETS**



**RADIAL RAMPS**

NOTE:  
 RADIAL RAMPS WILL NOT BE PERMITTED IN NEW TRAFFICWAY IMPROVEMENT PROJECTS, AND WILL ONLY BE ALLOWED AS DIRECTED BY THE ENGINEER IN RETRO-FIT CONSTRUCTION WHEN PERPENDICULAR RAMPS CANNOT BE CONSTRUCTED.



**RETAINING WALL & WALK DETAILS**

NOTE:  
 ► THIS TYPE OF WALL MAY BE USED TO A MAXIMUM HEIGHT OF 3'-0".  
 ► WEEP HOLES AT A MAXIMUM OF 15' CENTER TO CENTER WITH COARSE AGGREGATE PLACED AT EACH WEEP HOLE 18" IN ALL DIRECTIONS ABOVE FLOW LINE.  
 ► CONCRETE SHALL BE CLASS "A" THROUGHOUT WITH GRADE 40 REINFORCING.  
 ► PLACE 1/2" HARDWARE SCREEN AT WEEP HOLES TO RETAIN AGGREGATE.

**SIDEWALK (RESIDENTIAL AND COMMERCIAL) CONSTRUCTION**

► SIDEWALKS SHALL BE CONSTRUCTED USING 4" THICK CONCRETE, EXCEPT AT DRIVEWAY CROSSINGS, WHERE IT SHALL BE 6" THICK PAVEMENT CLASS CONCRETE, 4000 PSI (RESIDENTIAL) OR 8" THICK PAVEMENT CLASS CONCRETE, 4000 PSI (COMMERCIAL).  
 ► FINE GRADING MATERIAL SHALL BE CRUSHED ROCK AB-3. ALLOWABLE MAXIMUM COMPACTED THICKNESS OF AB-3 SHALL BE 6".  
 ► SAND IS NOT AN APPROVED FILL, SUBGRADE, OR FINE GRADING MATERIAL UNDER PAVEMENT, SIDEWALKS, RAMPS, OR DRIVEWAYS.  
 ► ALL SIDEWALKS AND RAMPS WITHIN PUBLIC RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

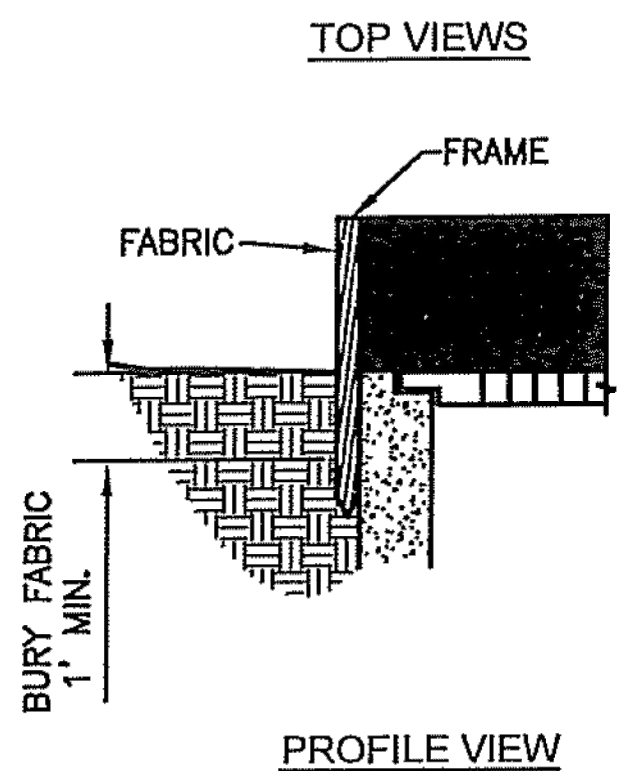
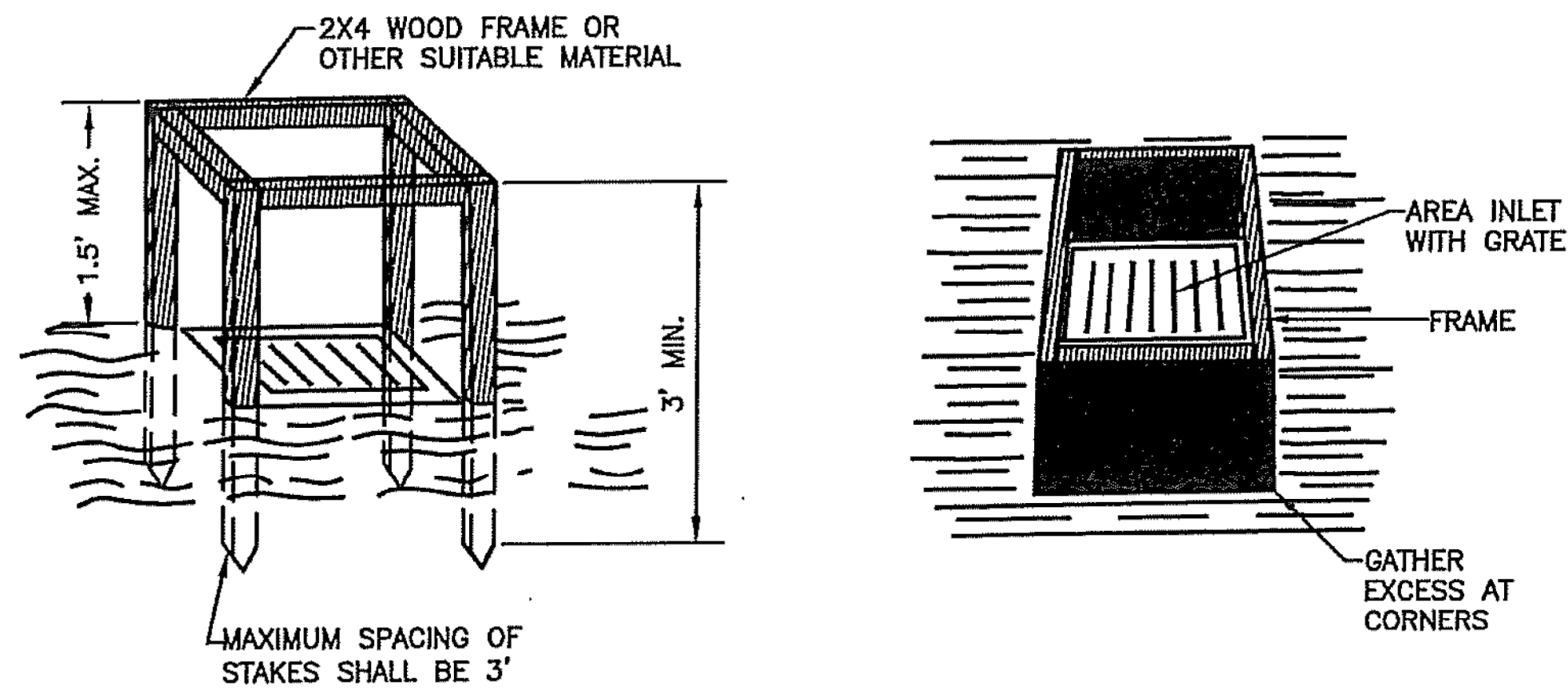
**SPECIAL REQUIREMENTS FOR SIDEWALK RAMP CONSTRUCTION**

► SIDEWALK RAMPS SHALL BE CONSTRUCTED USING 6" THICK PAVEMENT CLASS CONCRETE (4000 PSI) AS DETAILED IN THE STANDARD TECHNICAL SPECIFICATIONS.  
 ► EXPANSION JOINTS SHALL BE SEALED WITH APPROVED JOINT SEALANT WHERE SIDEWALKS AND DRIVE ENTRANCES (COMMERCIAL AND RESIDENTIAL) INTERSECT WITH PAVEMENT CURB.  
 ► DETECTABLE WARNING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.  
 ► THE TRUNCATED DOME AREA SHALL BE A MAXIMUM WIDTH OF THE SIDEWALK RAMP OR MEDIAN RAMP. WIDER MEDIAN ISLANDS WILL RESULT IN A GAP BETWEEN THE TRUNCATED DOME AREAS.  
 ► THE TRUNCATED DOME AREA SHALL BE A CONTRASTING COLOR TO THE ADJACENT SURFACES.  
 ► DETECTABLE WARNING PANELS SHALL NOT BE CUT. BRICKS MAY BE SAW CUT BUT ANY BRICK SHALL NOT BE LESS THAN 25% OF A FULL BRICK.  
 ► THE ADA SOLUTIONS CAST IN PLACE DETECTABLE WARNING PANELS, ARMORCAST DETECTABLE WARNING PANELS, PAVESTONE DETECTABLE WARNING PAVERS OR APPROVED EQUAL SHALL BE USED IN ALL SIDEWALK RAMPS.  
 ► DETECTABLE WARNING SYSTEMS SHALL BE PLACED ALONG THE BACK OF CURB OR AT A MAXIMUM DISTANCE OF 5 FEET FROM BACK OF CURB.  
 ► TRUNCATED DOMES SHALL BE ALIGNED WITH THE DIRECTION OF TRAVEL, OR MAY BE PLACED ON RADIAL LINES IN RADIUS TACTILE PATTERNS.  
 ► MORTAR SAND SHALL MEET THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS.  
 ► THE SIDEWALK RAMP WILL BE BID AS "SIDEWALK RAMP" AND PAYMENT FOR THIS WORK WILL BE MEASURED BY THE SQUARE FOOT, MAXIMUM 6 FEET CENTERLINE PAY LENGTH.  
 ► ALL MATERIALS AND LABOR TO INSTALL THE SIDEWALK RAMP SHALL BE SUBSIDIARY TO THE BID ITEM "SIDEWALK RAMP".

**STANDARD DETAILS**

**RAMP & WALK DETAILS  
(DT-004)**

DATE: April 2026  
 SHEET: 10 OF 15  
 PROJ.: 241071.05



- NOTES:
1. BASE OF FABRIC SHALL BE BURIED AT LEAST 1' BELOW GROUND SURFACE AND BACKFILLED WITH CRUSHED STONE OR COMPACTED MATERIAL.
  2. WIRE MESH FENCE MAY BE USED TO SUPPORT FABRIC. TOP OF FENCE SHOULD BE LEVEL WITH FRAME AND BOTTOM BURIED 6" BELOW GROUND.
  3. MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON DOWN-SLOPE SIDE OF STRUCTURE TO PREVENT BYPASS FLOW.
  4. STRAW BALES OR GRAVEL FILLED FILTER BAGS MAY BE USED IN LIEU OF FABRIC. IF STRAW BALES ARE USED, TWO 4' (MINIMUM) LONG, 2" X 2" HARDWOOD STAKES SHALL BE DRIVEN THROUGH EACH BALE AND SET BACK 12" TO 24" FROM INLET. IF FILTER BAGS ARE USED, PLACE BAGS SUCH THAT NO GAPS ARE EVIDENT.

**AREA INLET PROTECTION**

- GENERAL NOTES:
1. ANY EROSION AND SEDIMENT CONTROL MEASURES INTENDED TO CONTROL EROSION OF AN EARTH DISTURBANCE OPERATION SHALL BE INSTALLED BEFORE ANY EARTH DISTURBANCE OPERATIONS TAKE PLACE.
  2. THE CONTRACTOR SHALL INSPECT THE LAND DISTURBANCE SITE AFTER EACH SIGNIFICANT RAINFALL EVENT WITHIN A 24-HOUR PERIOD AND ASSURE THAT ALL EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING CONDITION PRIOR TO ANY FORECASTED RAINFALL. SEDIMENT REMOVAL AND ALL NECESSARY REPAIRS SHALL BE MADE TO MAINTAIN THE INTEGRITY OF THE EROSION AND SEDIMENT CONTROL MEASURES. SEDIMENT SHALL BE REMOVED ONCE IT REACHES HALF OF THE INSTALLED HEIGHT OF MEASURE.
  3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING ALL PHASES OF CONSTRUCTION UNTIL OWNER ACCEPTS WORK AS COMPLETE. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEEDING, BERMS, SILT FENCE, SEDIMENT TRAPS OR OTHER MEANS TO PREVENT SEDIMENT FROM REACHING STREAMS, PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTY.
  4. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED ONCE 70 PERCENT OF THE PERMANENT COVER IS ESTABLISHED.
  5. THE CONTRACTOR SHALL TEMPORARILY SEED AND MULCH ALL DISTURBED AREAS IF THERE HAS BEEN NO CONSTRUCTION ACTIVITY ON THEM FOR A PERIOD OF 14 CALENDAR DAYS. IF THE ENGINEER DETERMINES THAT A SITE HAS A POTENTIAL FOR EROSION, STABILIZATION OF SOIL MAY BE REQUIRED. TEMPORARY SEED MIXTURE SHALL BE APPROVED BY THE ENGINEER OR AS FOLLOWS:

TYPE:	APPLICATION RATE:	
	WINTER WHEAT	120 LBS PER ACRE
	RYEGRASS	75 LBS PER ACRE

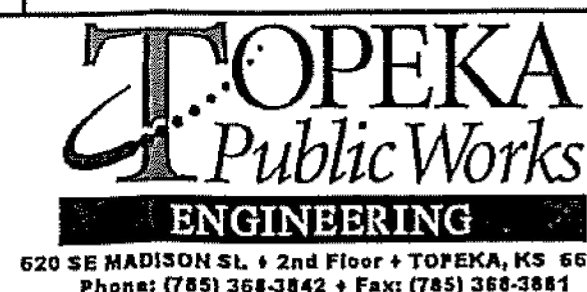
REPAIRS AND RESEEDING SHALL BE PERFORMED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER. IF VEGETATIVE MEASURES ARE NOT EFFECTIVE, NON-VEGETATIVE OPTION MAY BE REQUIRED.

NO.	DATE	REVISION	BY	APP'D
2	May 2015	Added & Updated Notes	DHS	JDH
1	March 2013	Revised Notes	DHS	JDH

DRAWN BY: DHS  
APP'D BY: JDH



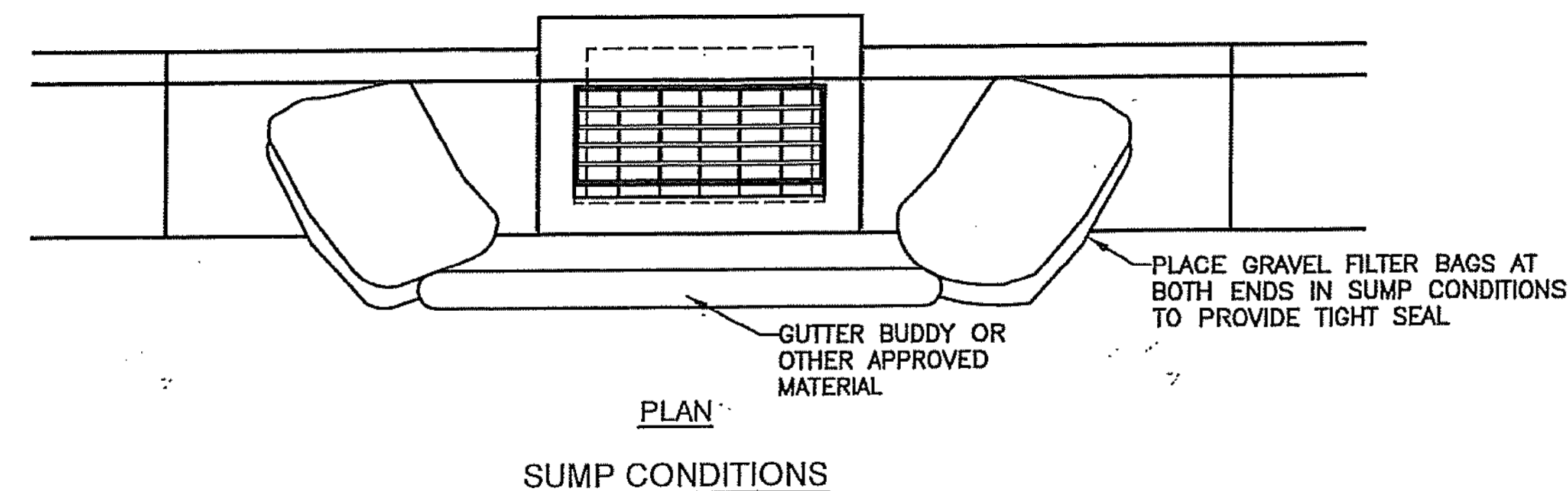
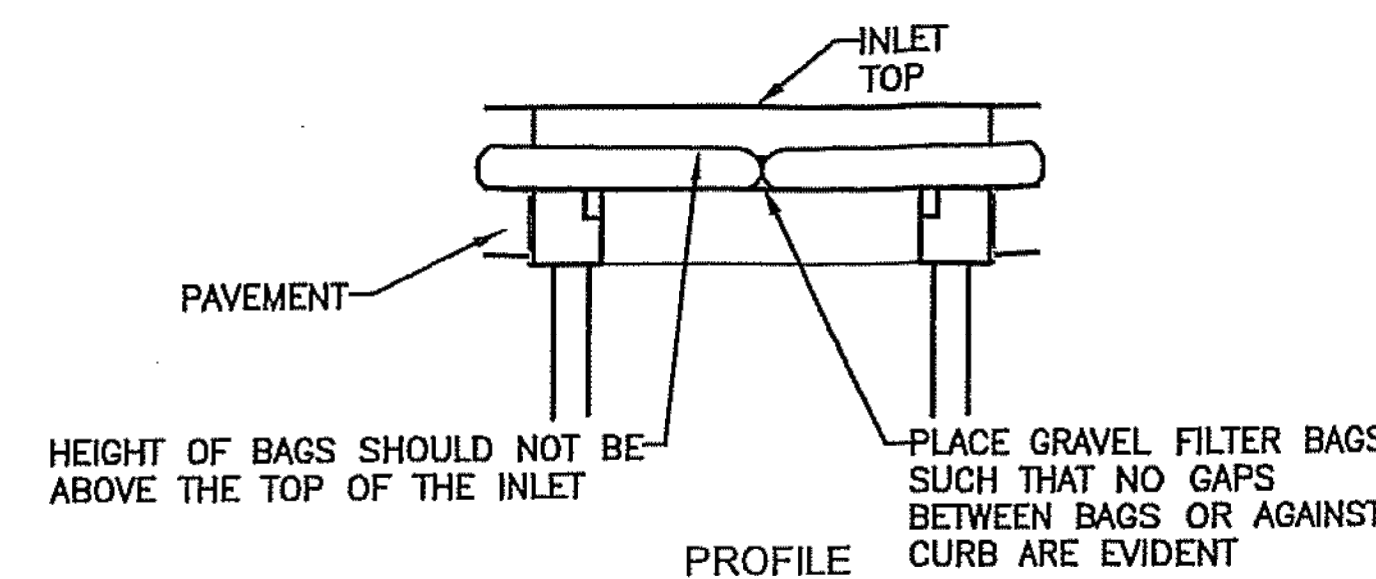
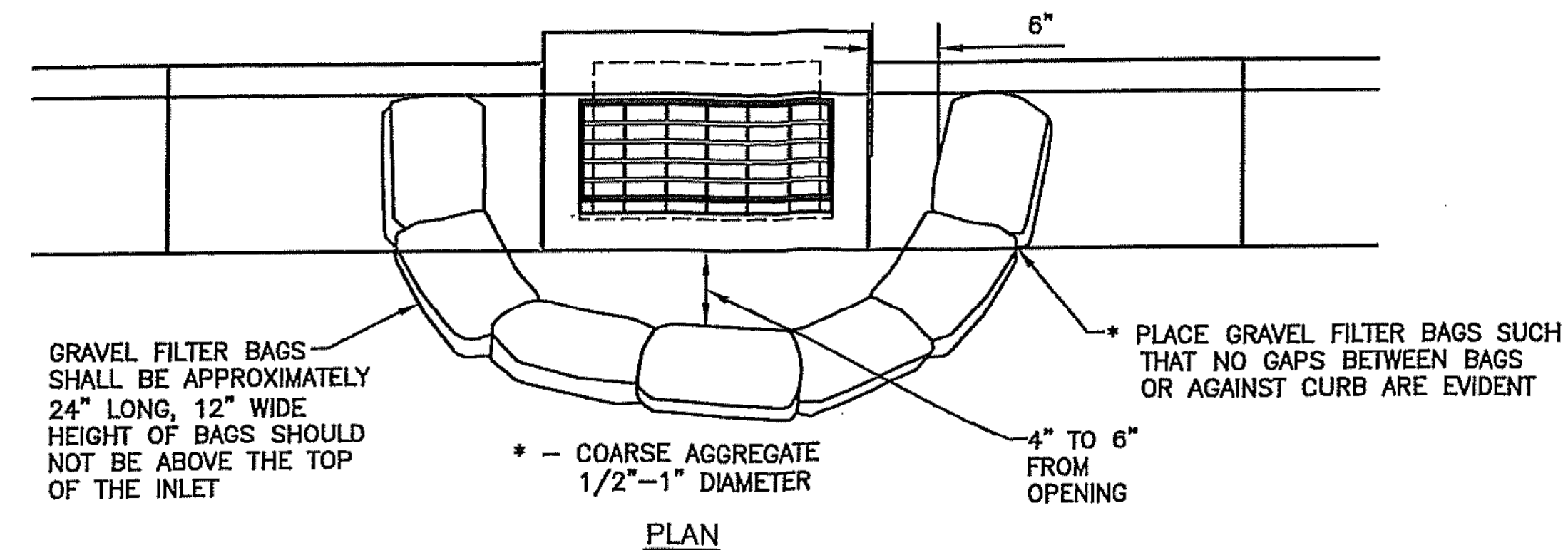
**SHAWNEE COUNTY, KANSAS**  
PUBLIC WORKS DEPARTMENT  
**COUNTY ENGINEER**  
1515 NW SALLINE  
TOPEKA, KS 66610  
(785) 233-7702



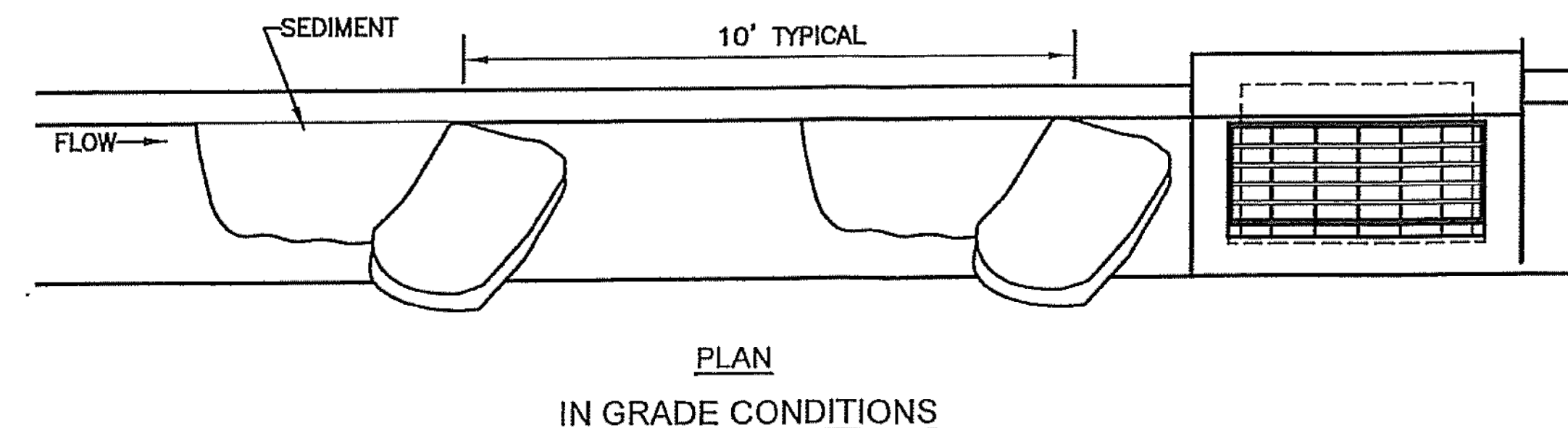
STANDARD DETAILS

**EROSION & POLLUTION CONTROL**  
INLET PROTECTION AND GENERAL NOTES  
(DT-020)

DATE: April 2026  
SHEET: 11 OF 15  
PROJ.: 241071.05

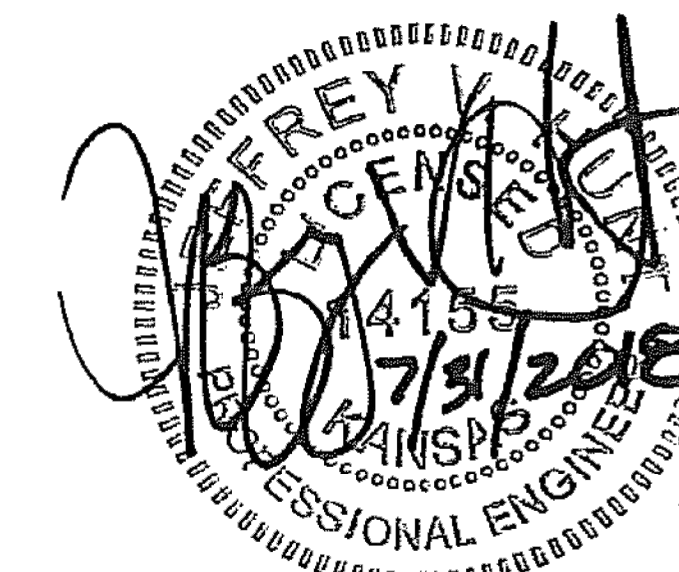


NOTE:  
DO NOT BLOCK INLET OPENING - STORMWATER MUST BE ALLOWED TO FLOW TO DRAIN AND NOT BYPASS TO DOWNSTREAM.



- NOTES:
1. OTHER APPROVED CURB INLET SEDIMENT FILTERS MAY BE USED.
  2. IMMEDIATELY FOLLOWING INLET CONSTRUCTION AND PRIOR TO CONSTRUCTION OF CURB AND INLET THROAT, PROTECT INLET OPENING AROUND PERIMETER. SEE AREA INLET DETAIL THIS PAGE.
  3. CONTRACTOR TO CLEAN OUT SEDIMENT AFTER EACH SIGNIFICANT RAINFALL EVENT.
  4. DURING CONSTRUCTION GRAVEL FILTER BAGS SHALL BE REPLACED PRIOR TO DEGRADATION.
  5. ANY SEDIMENT OR GRAVEL DEPOSITED IN INLET SHALL BE REMOVED PROMPTLY.

**CURB INLET SEDIMENT PROTECTION**



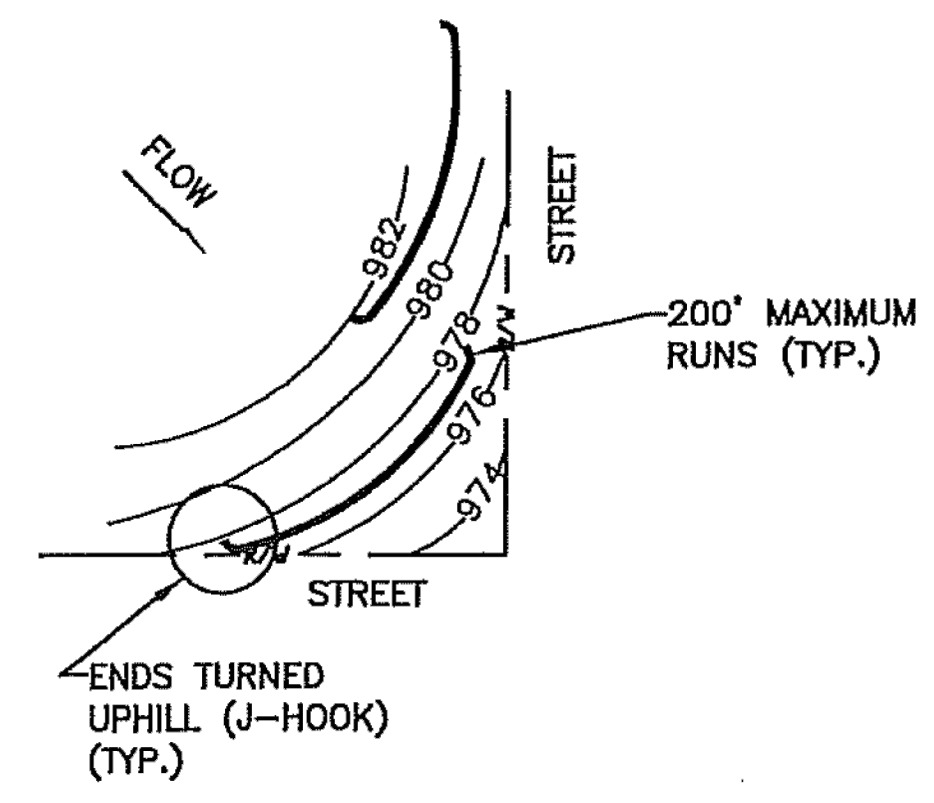
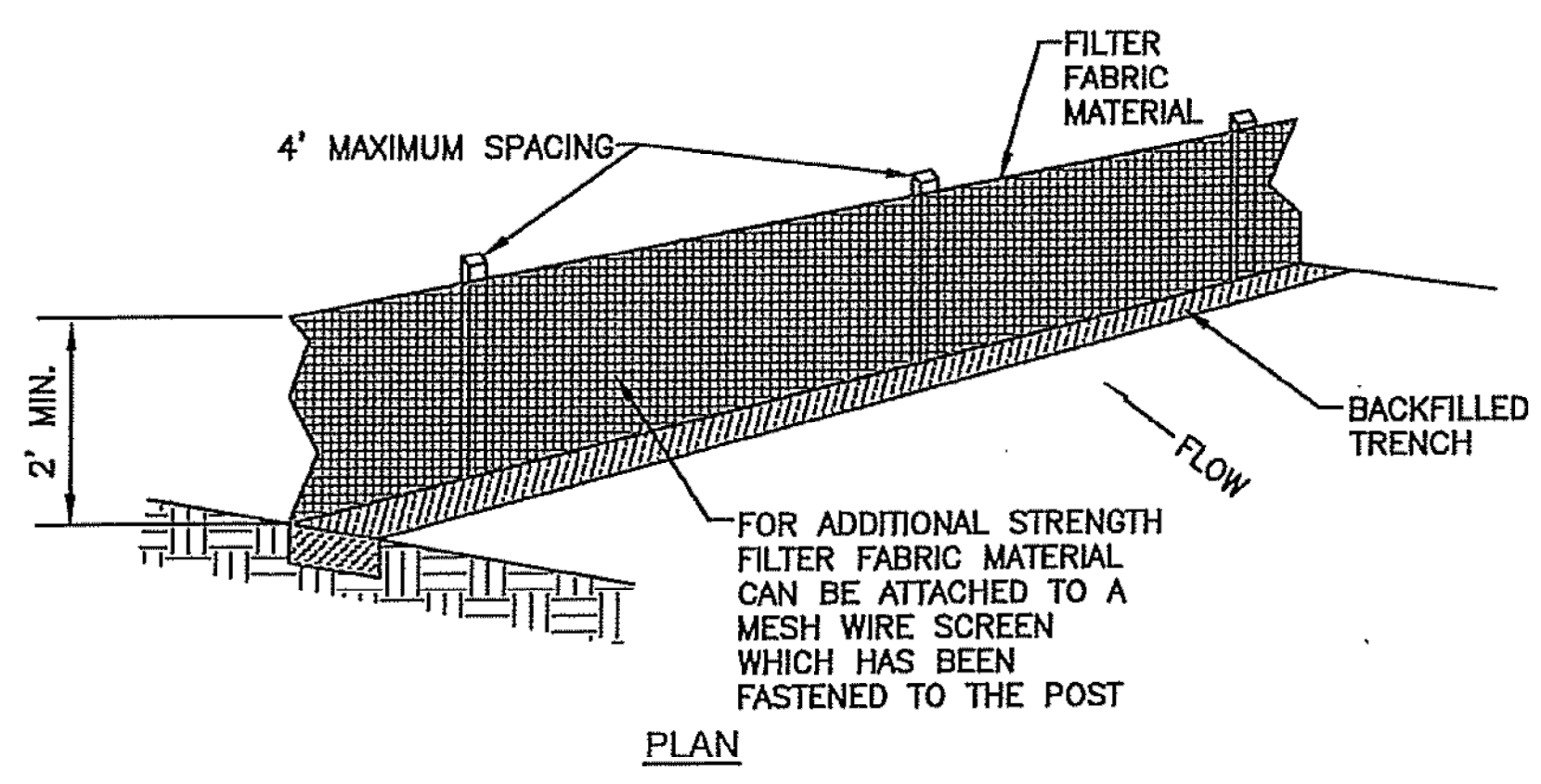
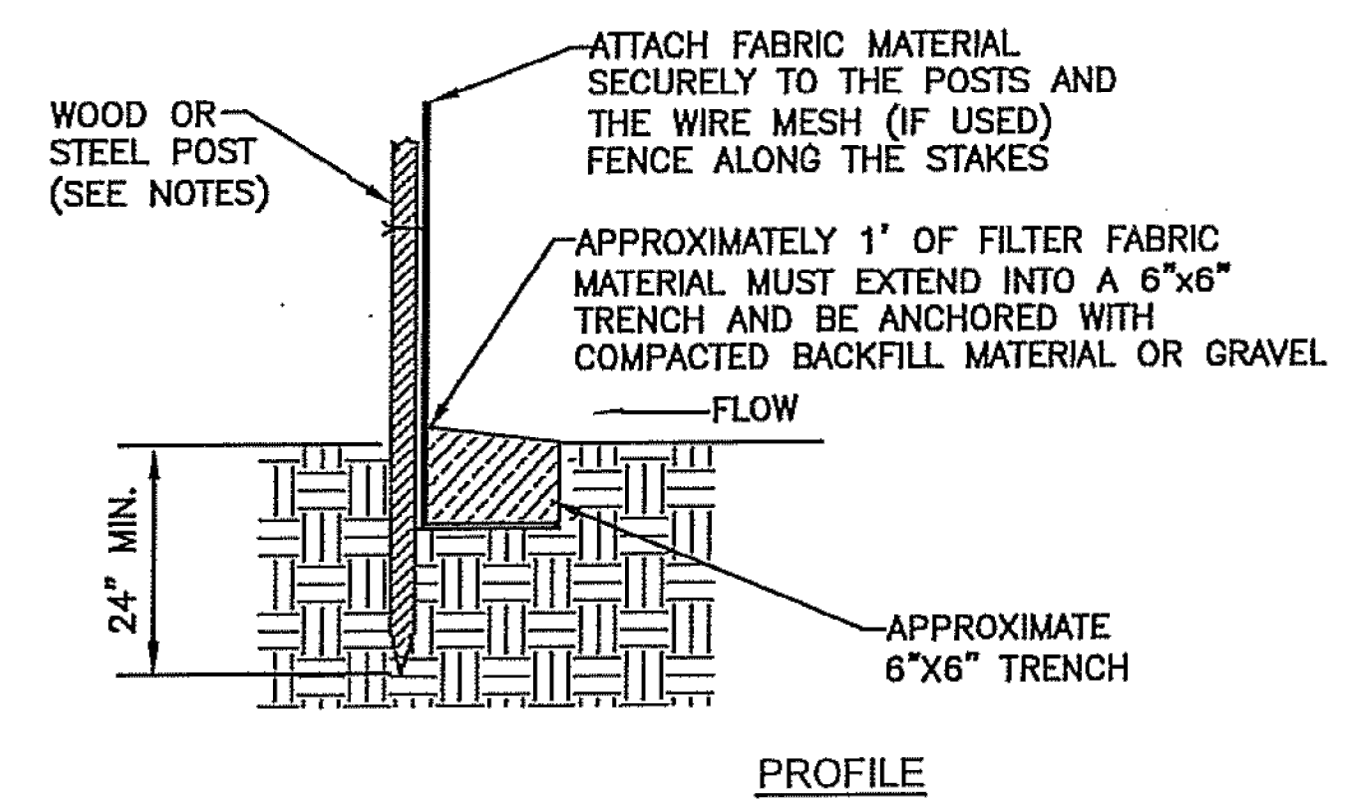


FIGURE A

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

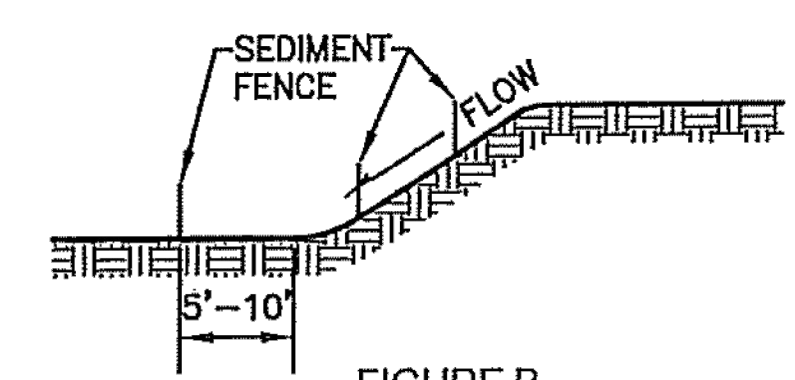
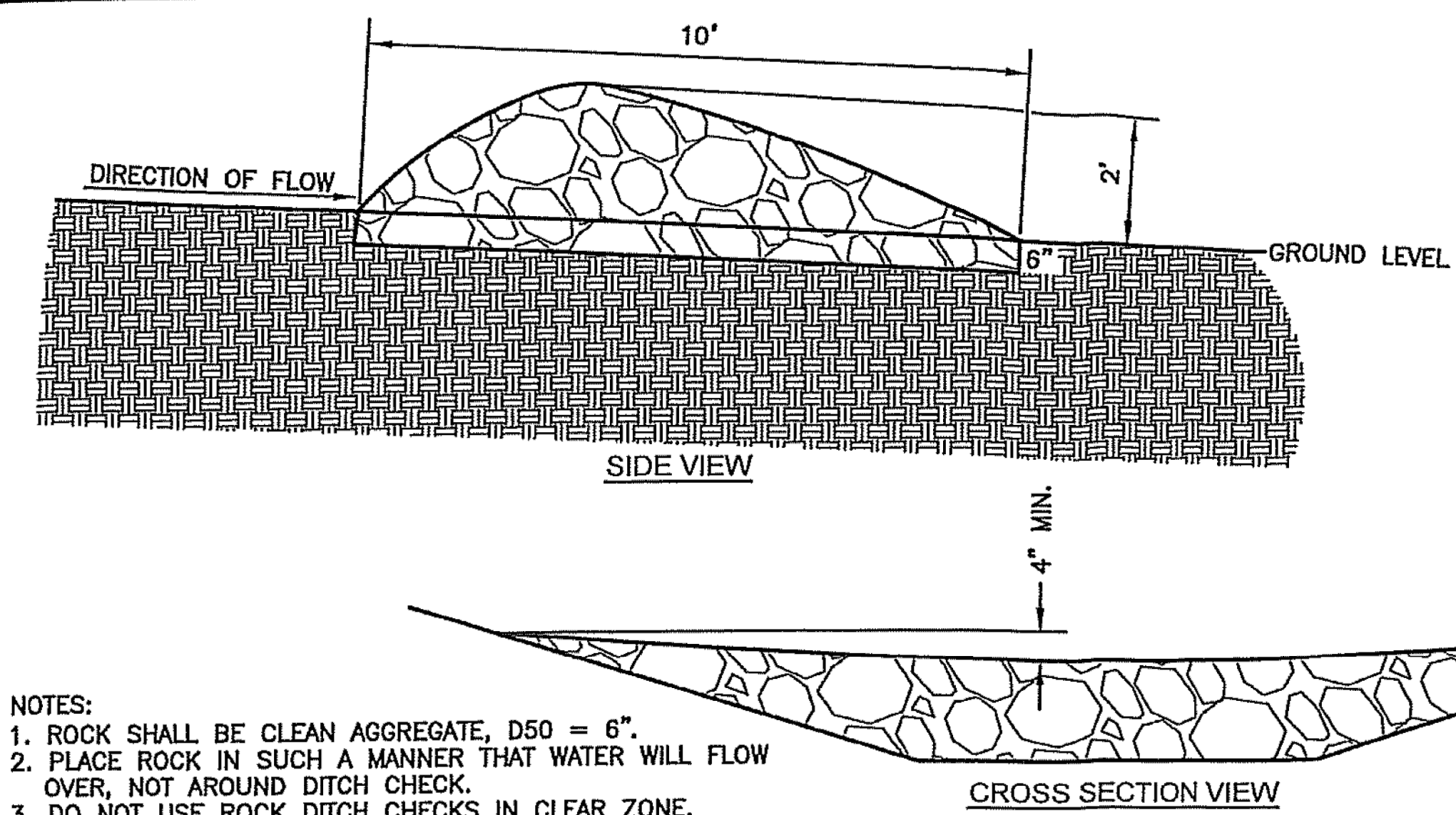


FIGURE B

- 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 BE 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

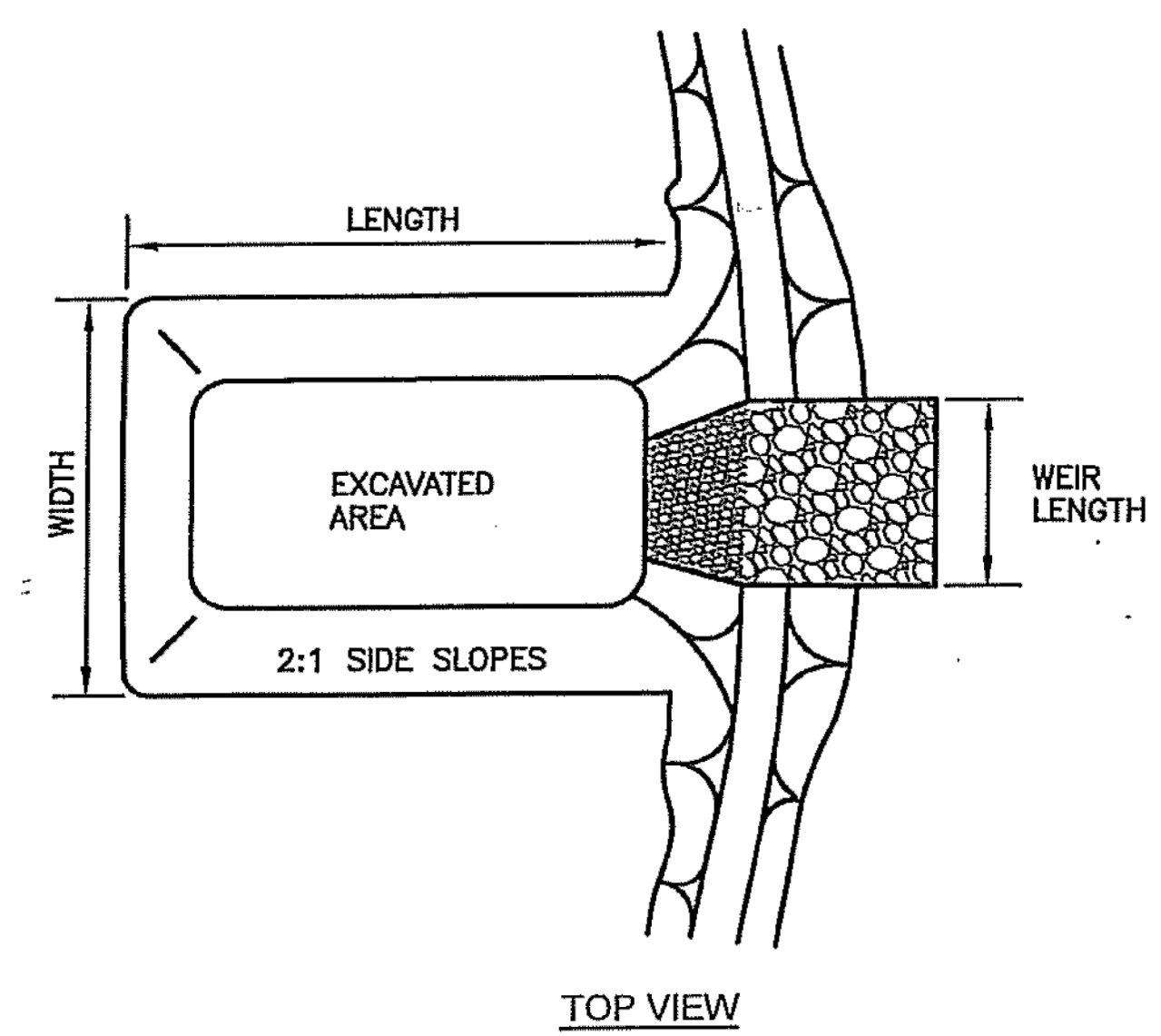
DITCH $\phi$ SLOPE (%)	SPACING INTERVAL (FEET)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29

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

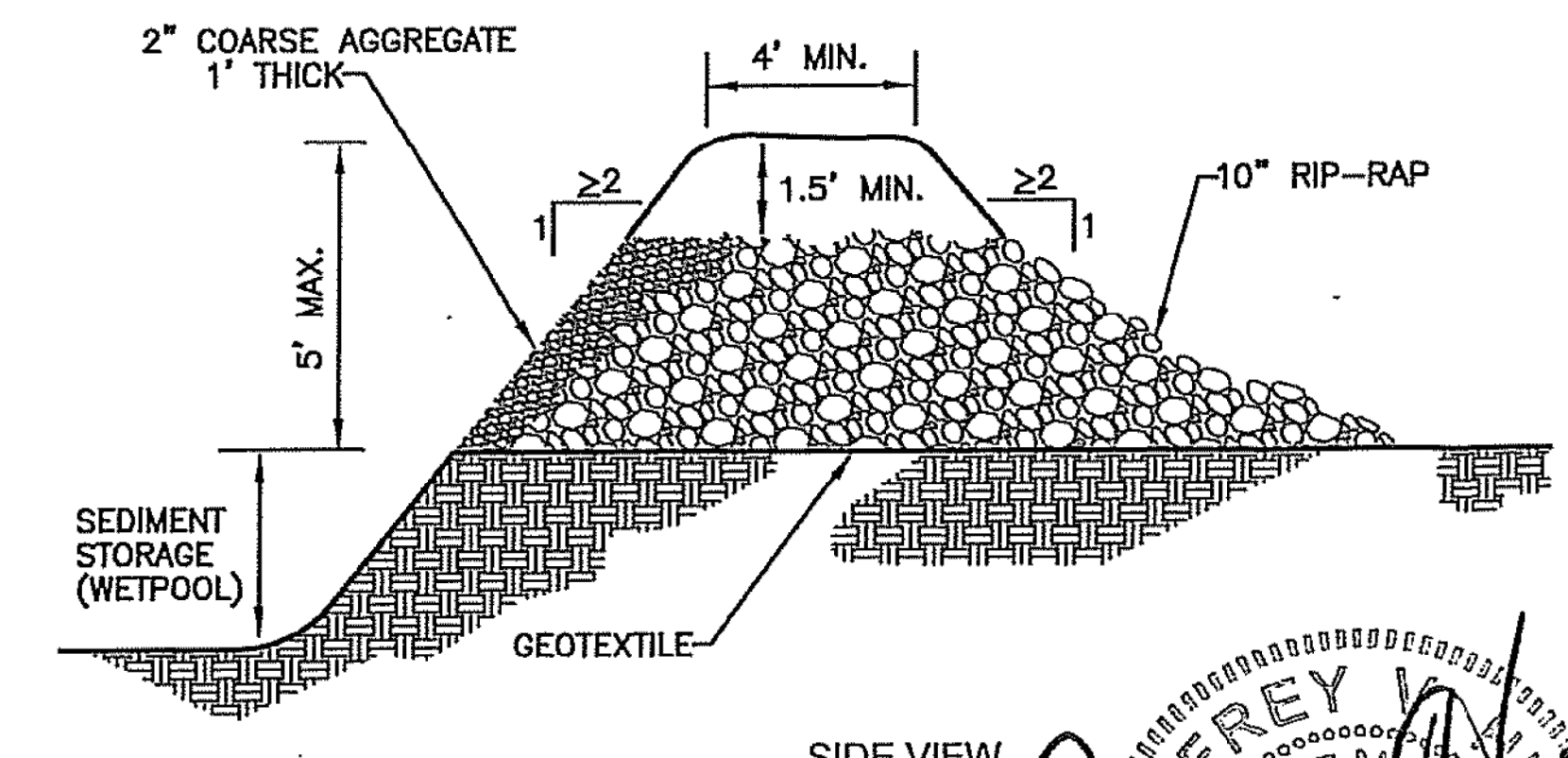
- NOTES:
1. ROCK SHALL BE CLEAN AGGREGATE, D50 = 6".
  2. PLACE ROCK IN SUCH A MANNER THAT WATER WILL FLOW OVER, NOT AROUND DITCH CHECK.
  3. DO NOT USE ROCK DITCH CHECKS IN CLEAR ZONE.
  4. AGGREGATE EXCAVATED ON SITE MAY BE USED AS AN ALTERNATE TO THE 6" ROCK, IF APPROVED BY THE ENGINEER.

**ROCK DITCH CHECK**

PLACE ROCK UP SLOPE OF BANKS TO ALLOW FLOW OVER CENTER OF CHECK DAM TO PREVENT SCOUR

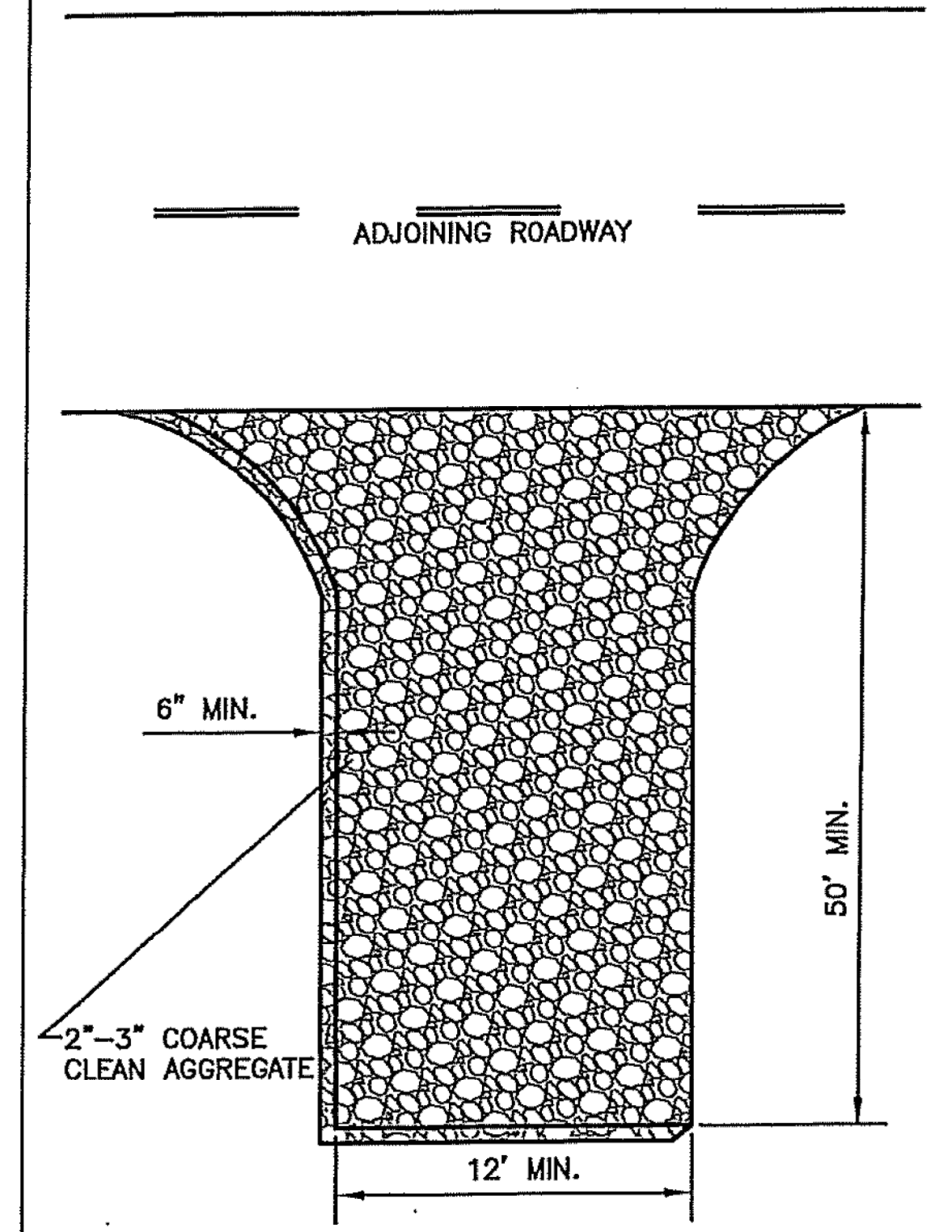


TOP VIEW



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 66616  
(785) 233-7702

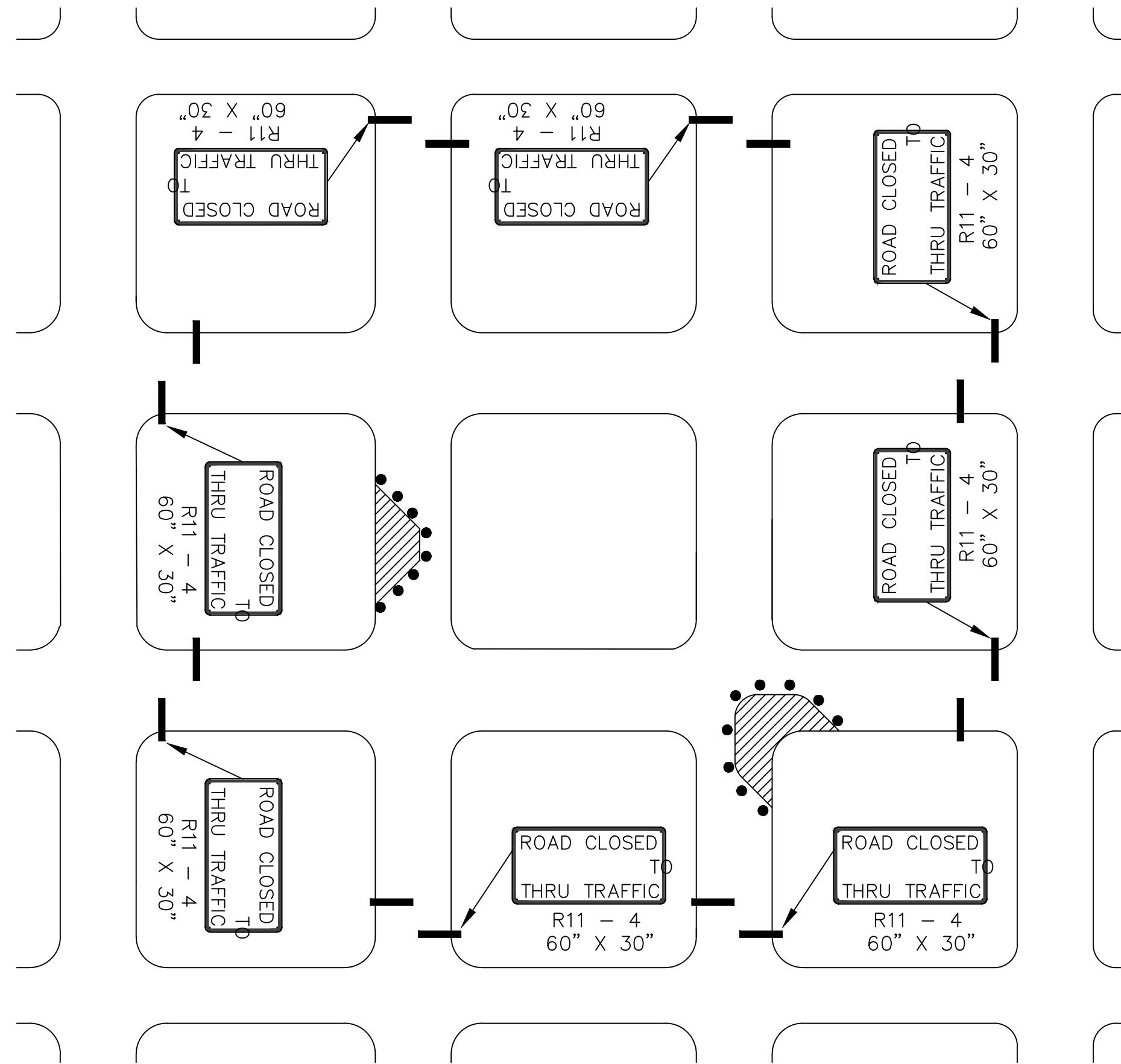
**TOPEKA**  
Public Works  
**ENGINEERING**  
620 SE MADISON ST. • 2nd Floor • TOPEKA, KS 66607  
Phone: (785) 266-2842 • Fax: (785) 266-2881

STANDARD DESIGN PROFESSIONAL ENGINEER  
7/31/2015

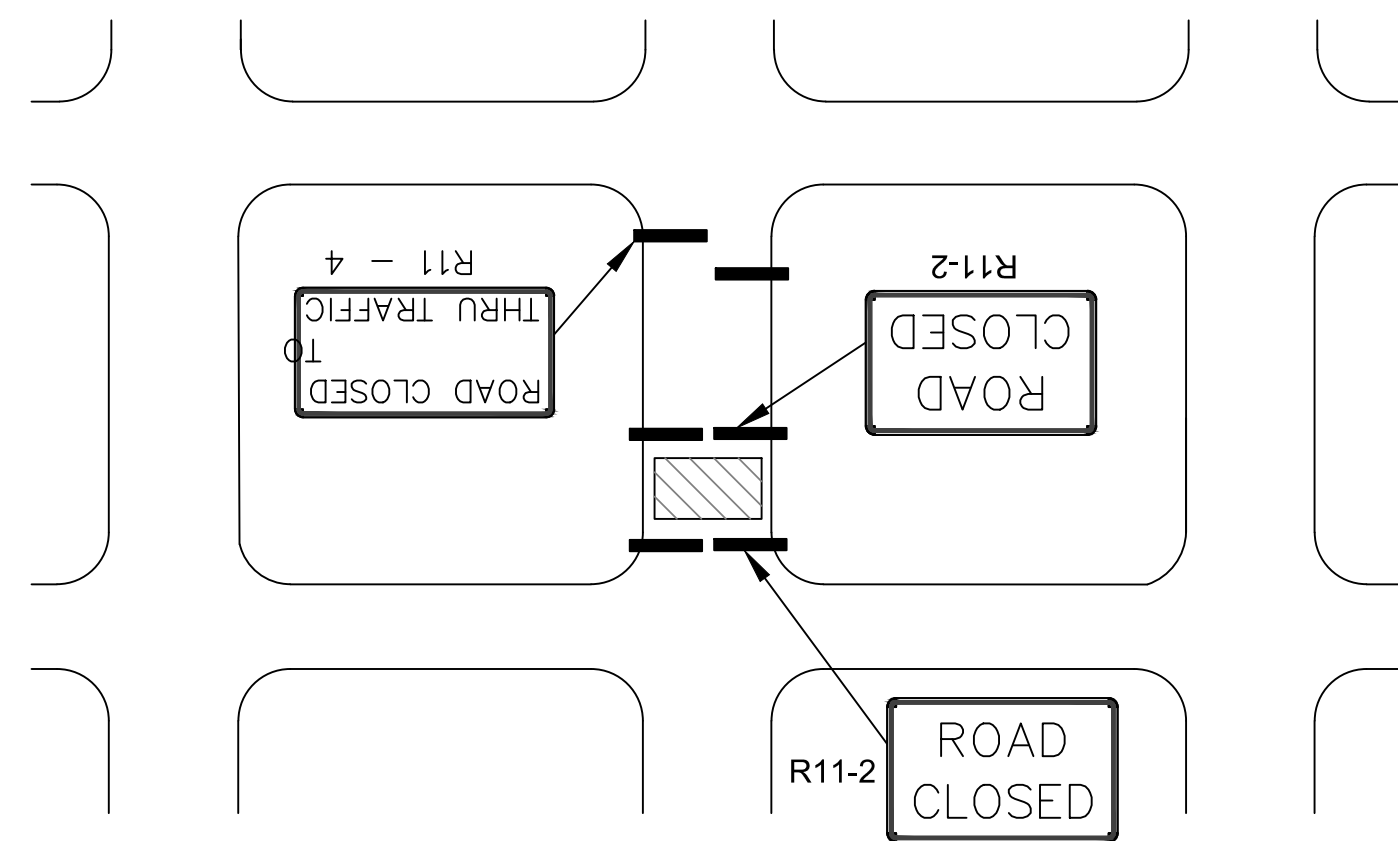
**EROSION & POLLUTION CONTROL**  
SILT FENCE, SEDIMENT BASIN,  
CONSTRUCTION ENTRANCE,  
AND ROCK DITCH CHECK  
(DT-021)

DATE: April 2026  
SHEET: 12 OF 15  
PROJ.: 241071.05



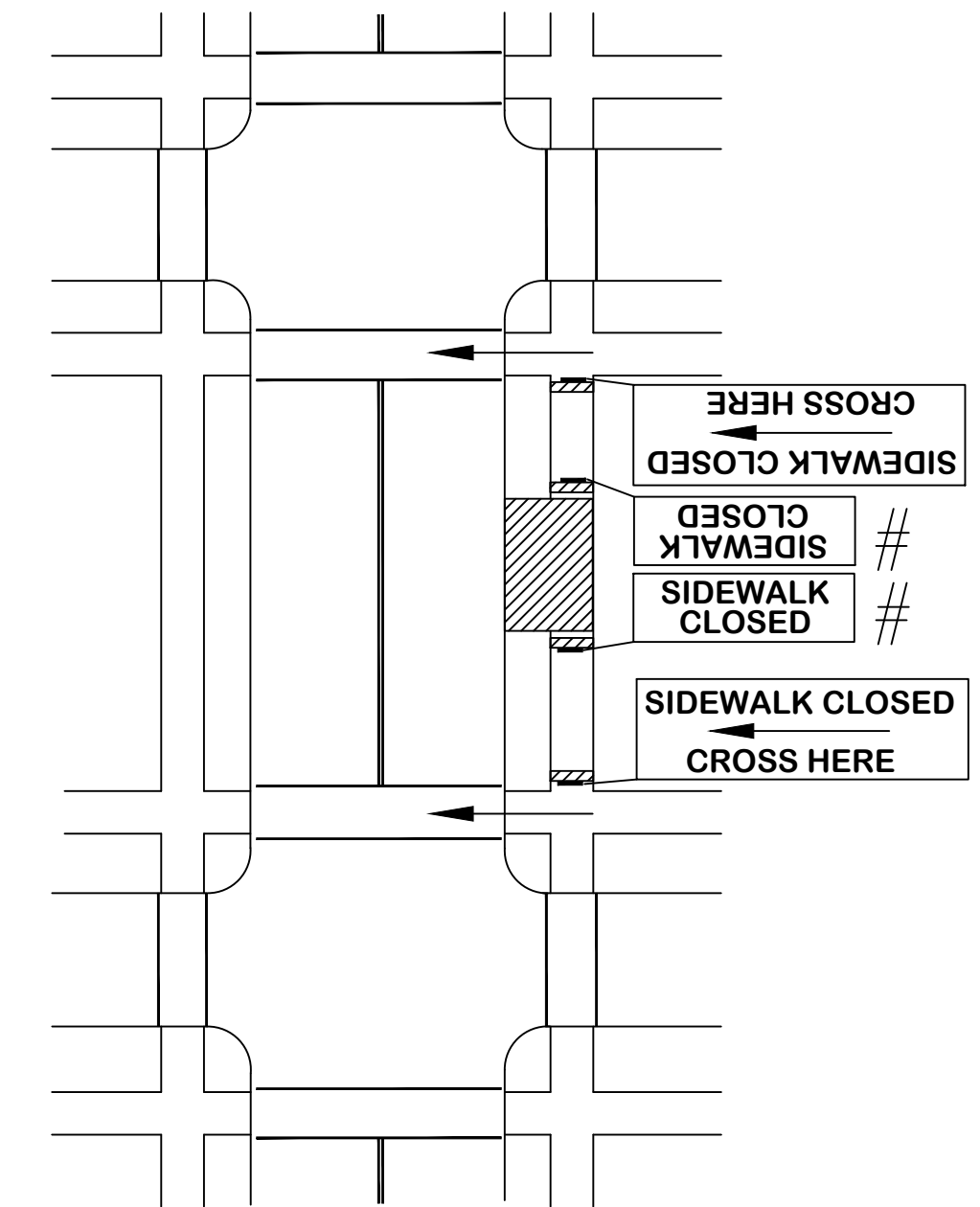


**FIGURE - 118 B (1)  
CONSTRUCTION WORK ON RESIDENTIAL / LOCAL STREETS**

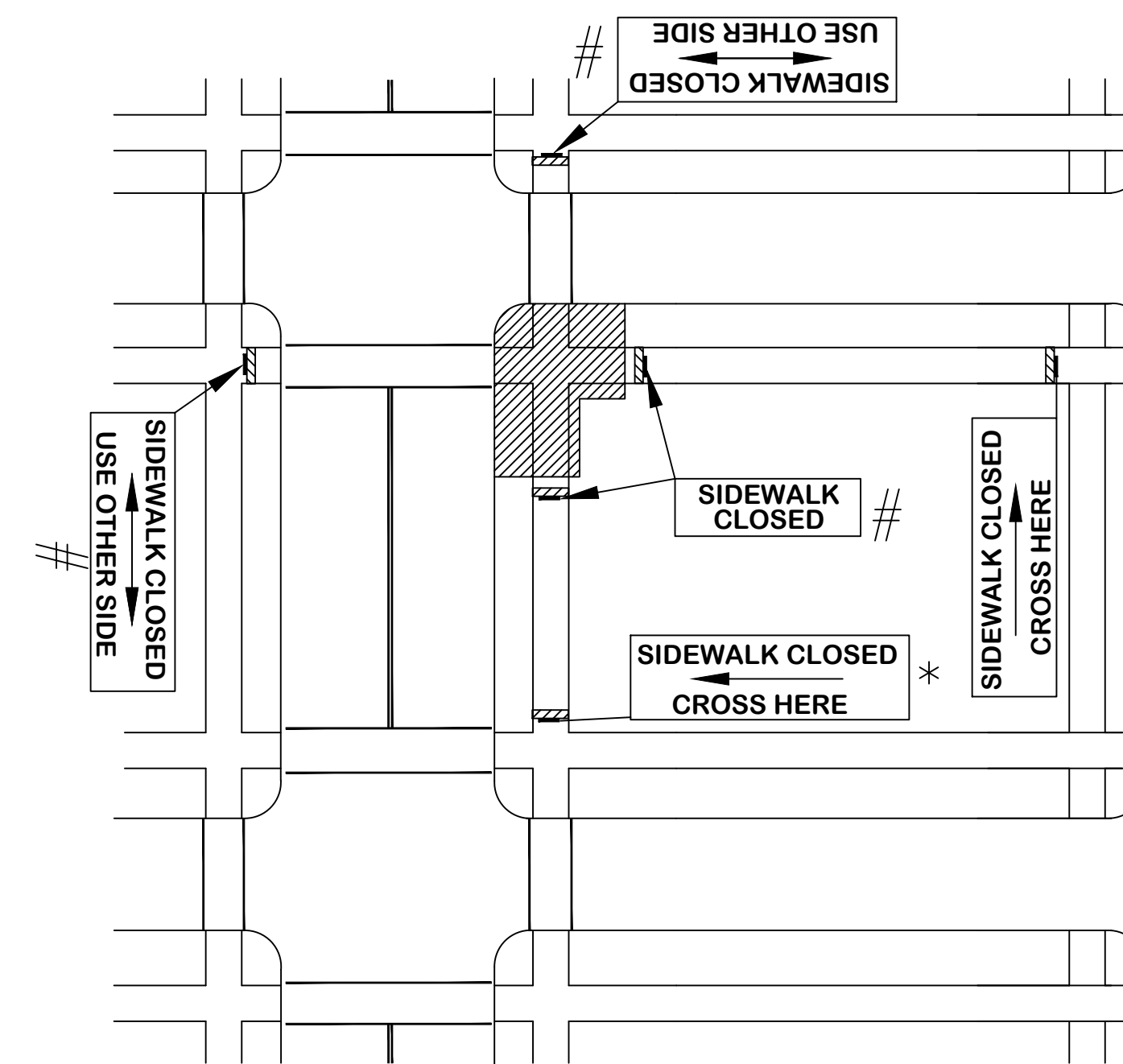


Need for Detour will be determined by the Engineer. Collector Streets cannot be detoured onto local or residential streets.

**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	◀◀◀◀ = ARROW PANEL BOARD
— = TYPE III BARRICADE	▨ = WORK SPACE
○ = CHANNELIZING DEVICES	⏏ = FLAGGER

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

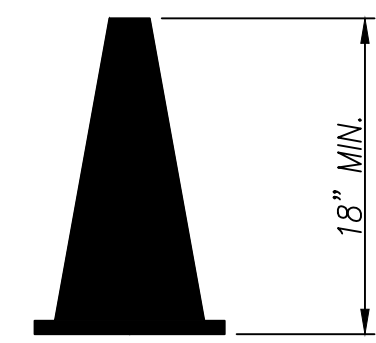
DRAWN BY: Shoeb Uddin  
APP'D BY: Kristi Ericksen



STANDARD DETAILS  
DT - 118 B

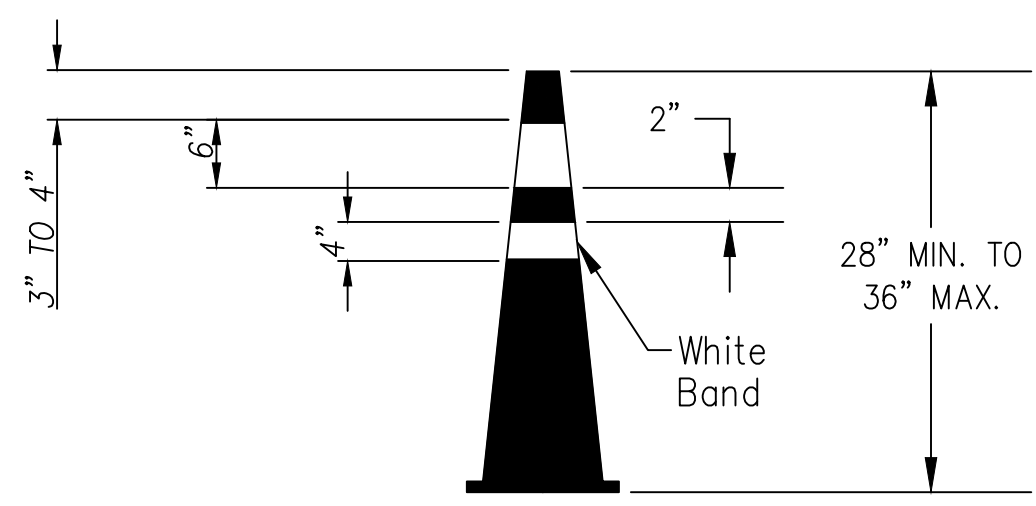
TRAFFIC CONTROL  
LOCAL STREET / SIDEWALK CLOSURES

DATE: April 2026  
PAGE: 14 OF 15  
PROJECT: 241071.05



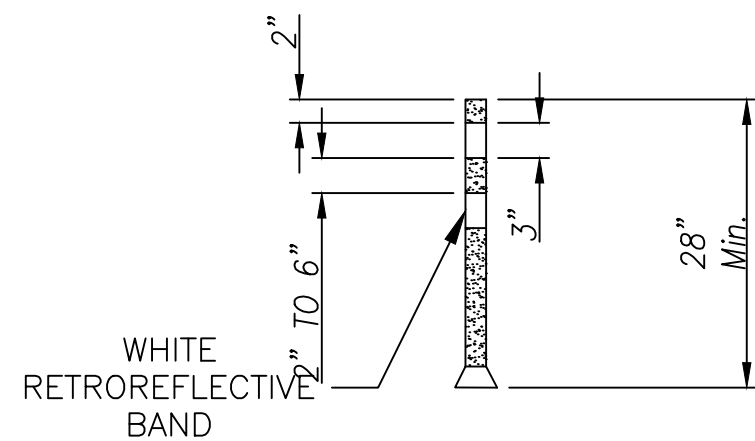
**CONES**

DAY TIME USE ONLY  
(≤ 40 MPH)

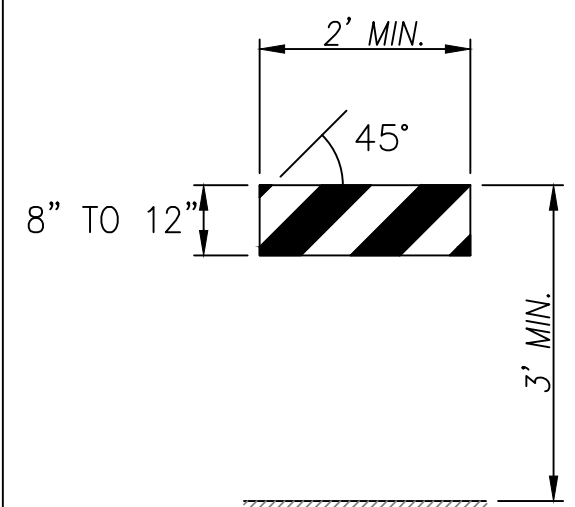


**CONES**

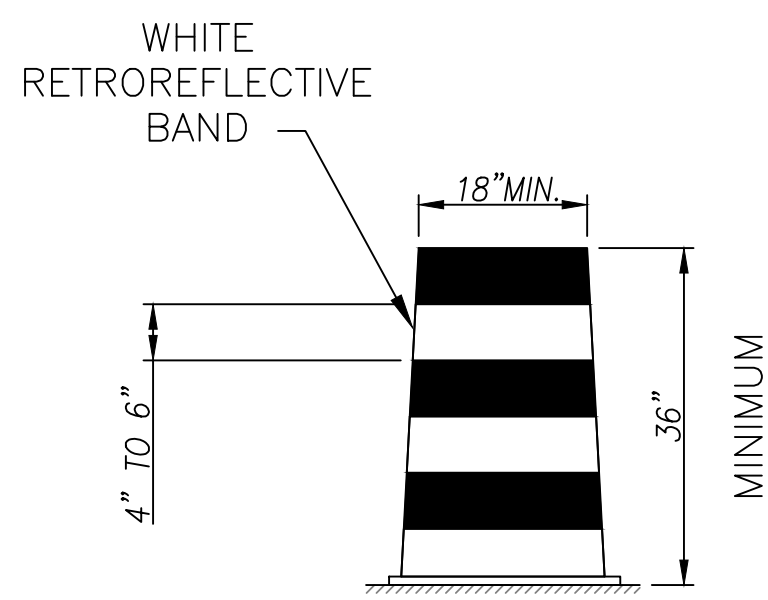
FLUORESCENT ORANGE CONE  
w/ WHITE RETROREFLECTIVE BANDS



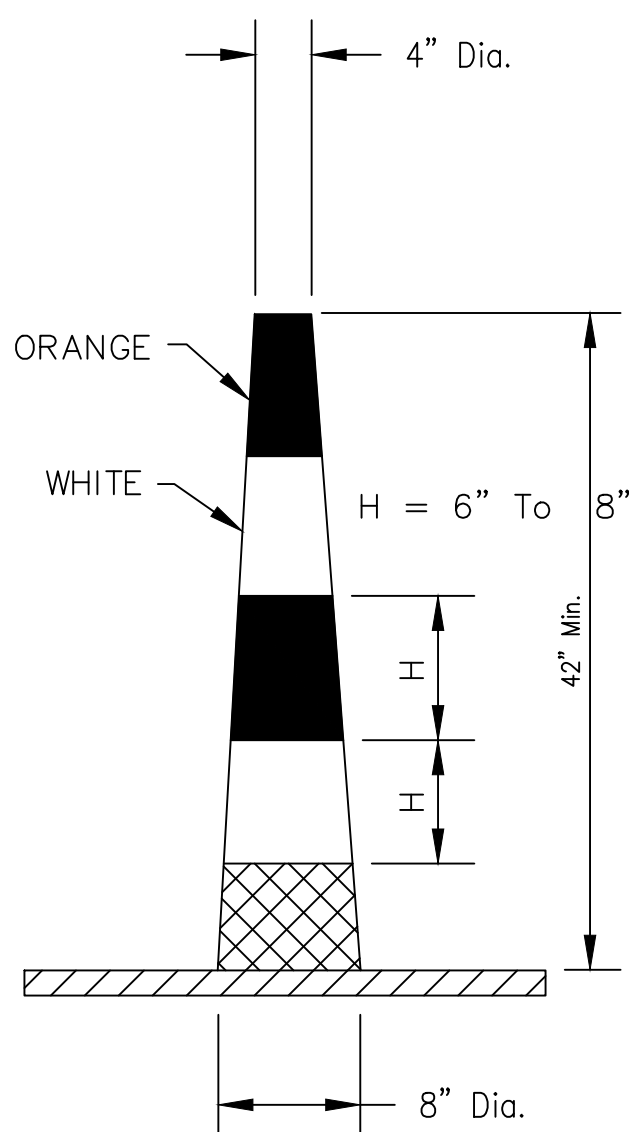
**TUBULAR MARKERS**



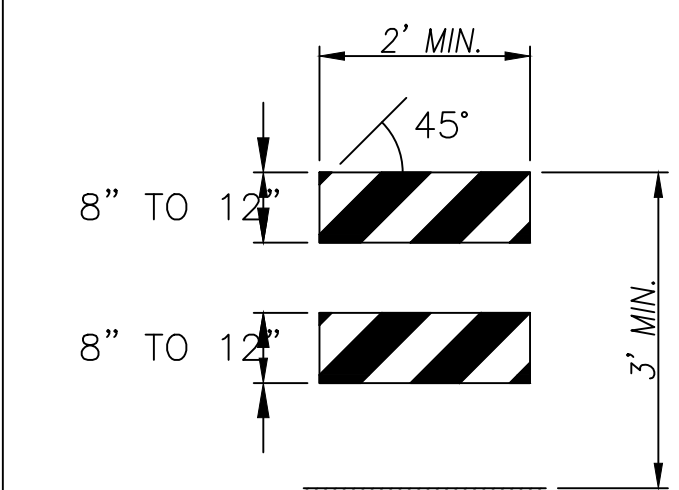
**TYPE I BARRICADE**



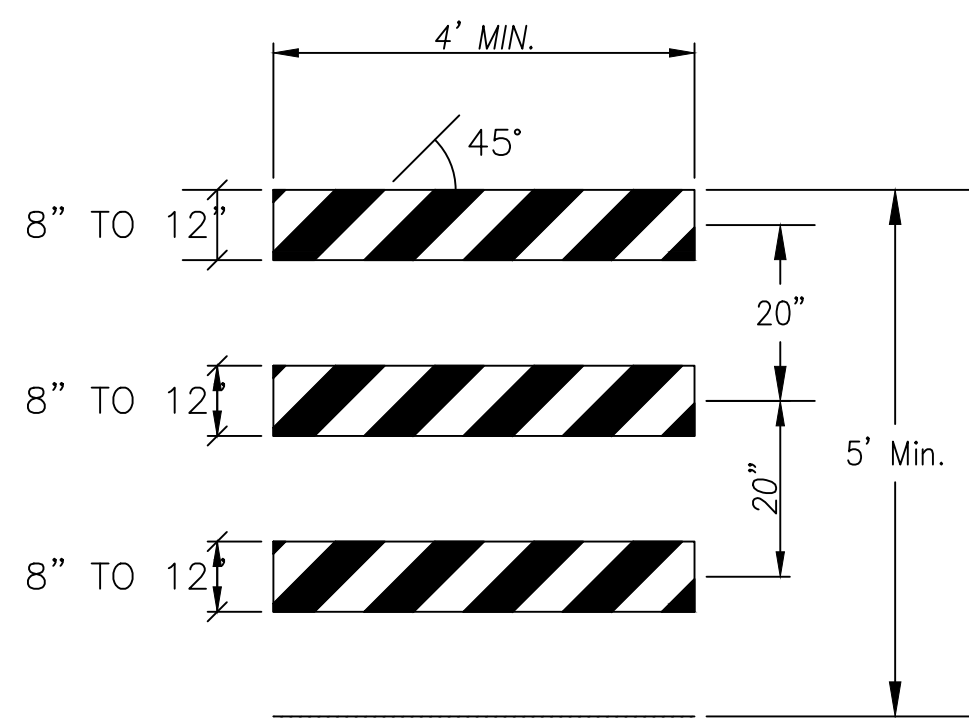
**DRUM**



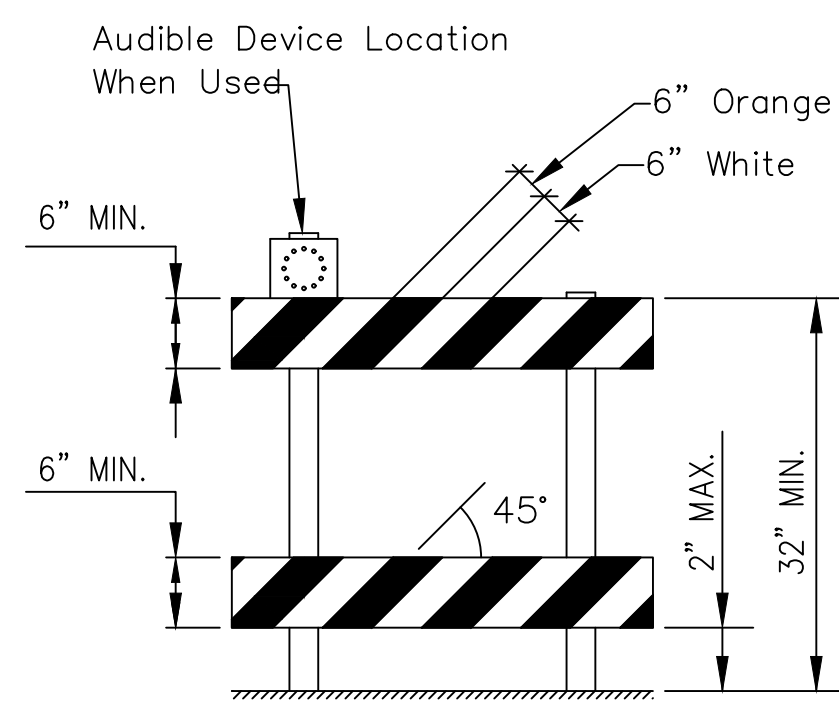
**CONICAL DELENEATOR**



**TYPE II BARRICADE**



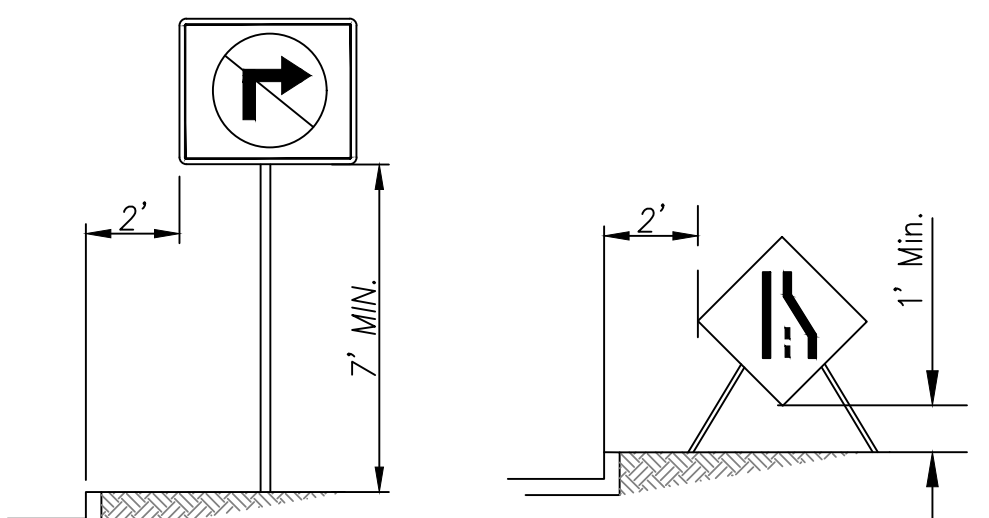
**TYPE III BARRICADE**



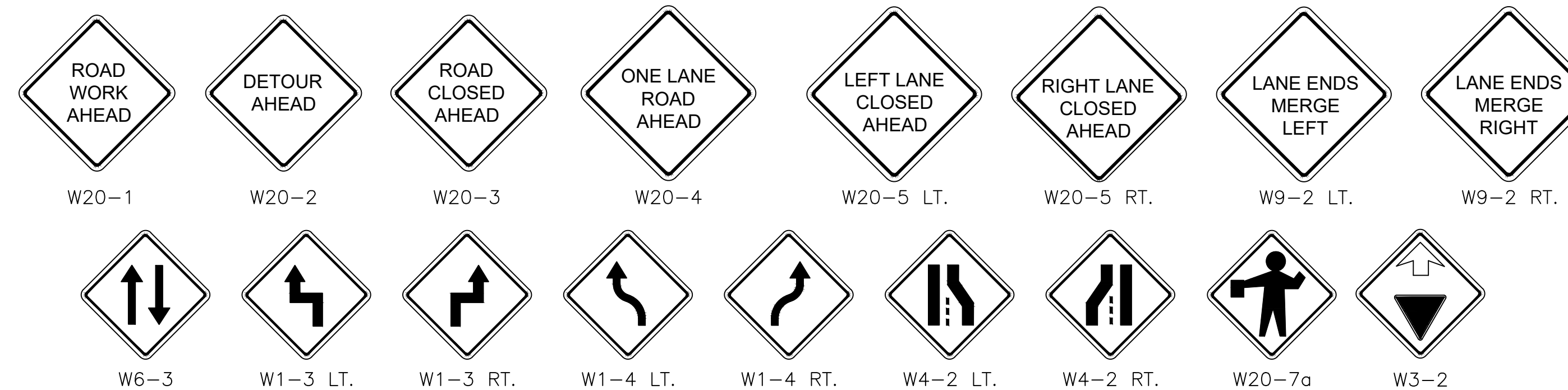
**DETECTABLE PEDESTRIAN BARRICADE/CHANNELIZER**

**NOTES:**

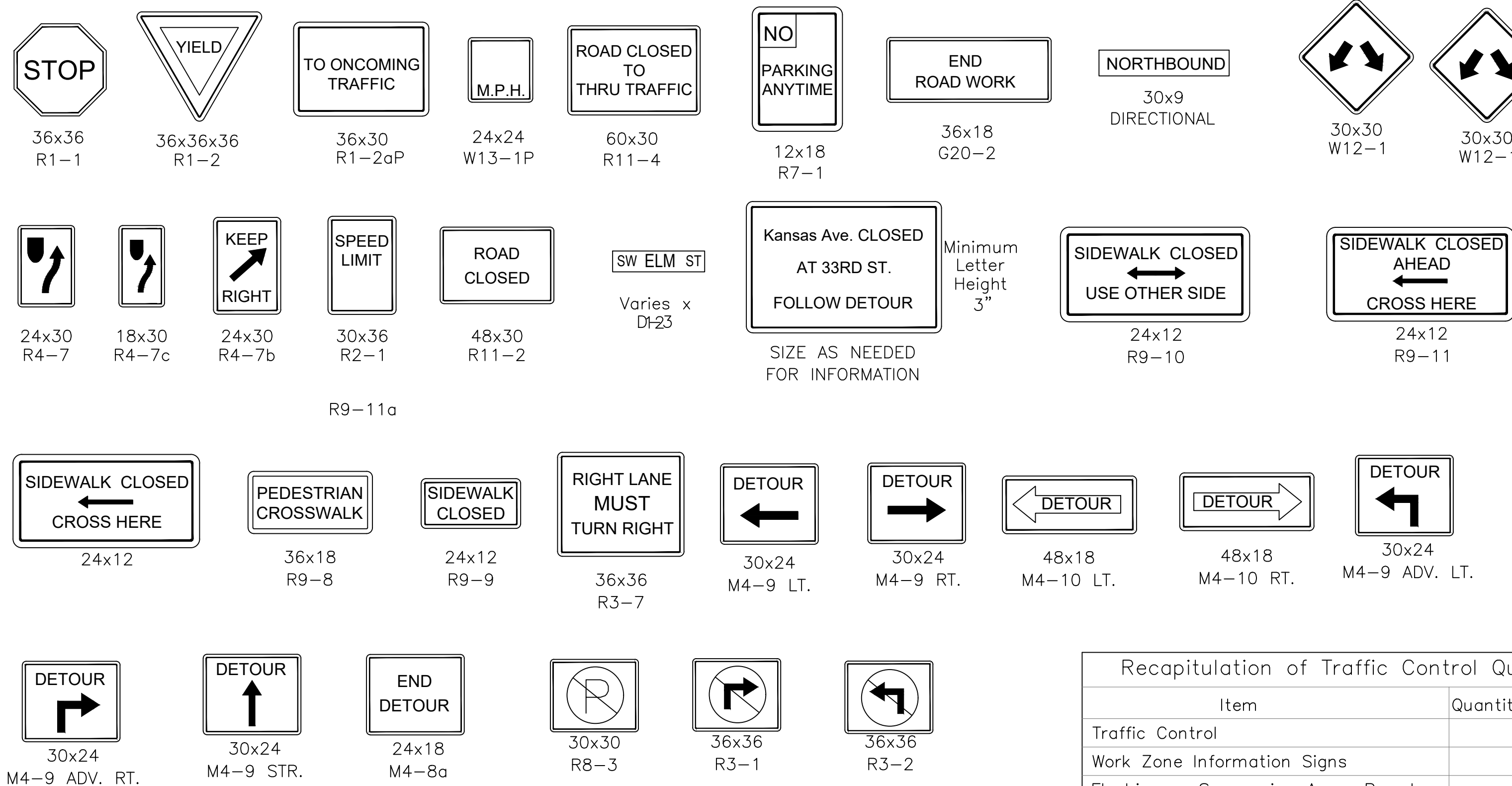
1. Barricades (Type 2 or 3) shall be used to close the entire width of the pathway.
2. Do not use warning lights on pedestrian barricades or on audible devices.
3. Upper rail shall be continuously smooth.
4. Adjacent sections of barricades shall be interlocked together, and shall have the same base color (orange or yellow).
5. Stripes are optional. As an alternate, the top rail may be orange and the bottom rail may be white.



**HEIGHT AND LOCATION OF SIGNS**



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



**Recapitulation of Traffic Control Quantities**

Item	Quantity	Unit
Traffic Control		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

⊠ ALL DEVICES LISTED ARE APPROXIMATE. ACTUAL DEVICES REQUIRED SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE BID ITEM "TRAFFIC CONTROL - LUMP SUM"

**Minimum Size:**

Refer to Table 6F-1 of the most recent edition of MUTCD for minimum sizes of all Traffic Control Signs.

**TYPICAL TRAFFIC CONTROL SIGNS USED IN CITY PROJECTS**

NO.	DATE:	REVISION	SU	KRE
1	10/30/20	MAJOR REVISION		

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



**STANDARD DETAILS**  
**DT - 121A**

**TRAFFIC CONTROL DEVICES AND RECAP OF QUANTITIES**

DATE: April 2026  
PAGE: 15 OF 15  
PROJECT: 241071.05