PROJECT NO. YEAR SHEET NO. TOTAL SHEETS

FLASHING CROSSWALK INSTALLATION PAVEMENT MARKINGS



10 PAVEMENT MARKING SUMMARY OF QUANTITIES 11-18 TRAFFIC CONTROL

2 GENERAL NOTES

5 PLAN DETAIL SHEET

1 TITLE

CONSTRUCTION LIMITS
RIGHT OF WAY LINE ...

INDEX OF SHEETS

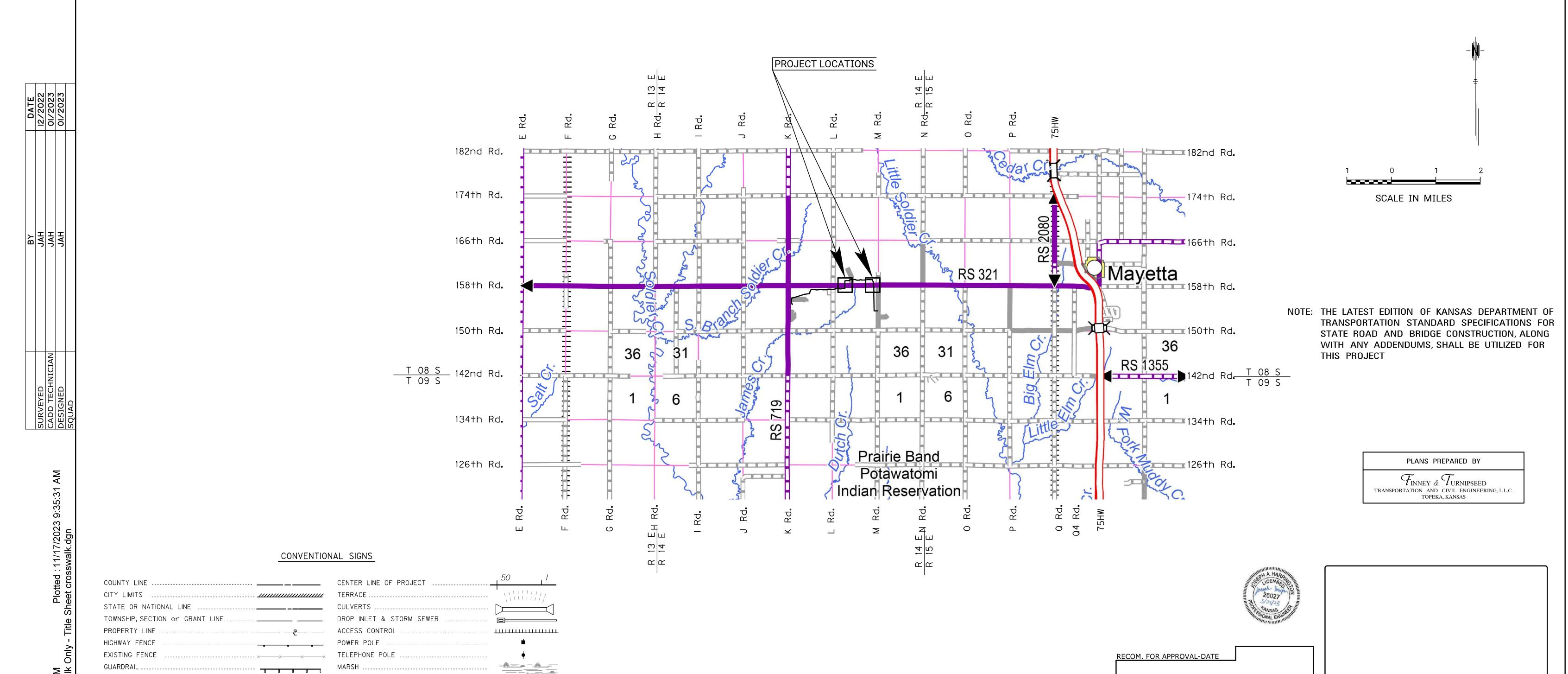
3 PLAN SHEETS (WEST CROSSWALK)4 PLAN SHEETS (EAST CROSSWALK)

9 PAVEMENT MARKING DETAILS

TRAFFIC SIGNAL INSTALLATION DETAILS

PEDESTRIAN FLASHER SYSTEM DETAIL (WEST CROSSWALK)

PEDESTRIAN FLASHER SYSTEM DETAIL (EAST CROSSWALK)



PRAIRIE BAND POTAWATOMI NATION

(1-800-344-7233)

Protect yourselves and your property against underground utility damage and liability.

Find out where the underground utility lines might be buried before

Anyone digging in Kansas must call before digging. The person who is doing the work is responsible for calling KOC. If the owner contracts with a professional excavator to do the excavation then the professional excavator is responsible for calling KOC.

You (the digger) will need to provide information about the work site when you call. This is a FREE service.

CALL BEFORE YOU DIG IT'S THE LAW. [Chapter 66.—PUBLIC UTILITIES Article 18.——UTILITY DAMAGE PREVENTION]

NON-EMERGENCY UTILITY OWNER CONTACTS

ONE CALL

KANSAS

Jackson County Rural Water District #3 411 New York Avenue Holton, KS 66436 Doug Savvage (785)851 - 0088Kyle Ingels (785)364 - 7578rwdmgr@giantcomm.net

Pottawatomie County Rural Water District #4 6005 Camp Creek Road Belvue, KS 66407 Office: (785)456-7935 Cell: (785)456-4184 rwd4pt@gmail.com

Prairie Band Potowatomi Nation- Fiber Optic, Sewer, Water

16281 Q Road Mayetta, KS 66509 Shawn Kelly (785)260 - 1205

Giant Communication

418 West 5th St. Holton, KS 66436 Travis Peek (785)851-1134

SPECIFICATIONS:

Specifications for this project shall be the Kansas Department of Transportation Standard Specifications for State Road and Bridge Construction where applicable and the Special Provisions. Specifically, the flasher system installation shall be constructed according to Section 814 of the Standard Specifications, as modified by these plans. As listed in Section 814 the electrical work shall be performed in accordance with The National Electric Code, The National Electric Safety Code, The Regulations of the National Board of Fire Underwriter, The Rural Utility Service, The Illumination Engineers Society, The Standards of the American Society for Testing and Materials, The American Accommodation Policy, Any Local Ordinances, and Details in the Contract Documents.

REPLACING DAMAGED IMPROVEMENT:

Replace all sidewalks, curbs, gutters, pavements and other improvements removed or damaged during installations of the lighting systems or traffic signals. Replace or reconstruct the removed or damaged improvements with the same type and quality of material originally used. If part of an existing slab of concrete pavement or square of sidewalk is removed or damaged, replace the entire slab or square. This work shall be subsidiary to other item of the contract.

CERTIFICATION OF CONTRACTOR PERSONNEL:

All flasher system installation work shall be done by, or in the presence of and under the responsible charge of an employee of the Contractor who holds a Level II Traffic Signal Field Technician or Level II Traffic Signal Construction Technician certification which has been granted by the International Municipal Signal Association (IMSA), or an equivalent certification approved by the Project Engineer. Proof of certification must be readily available to the Project Engineer.

MATERIAL LIST:

The Contractor shall submit a materials list before the commencement of construction. Most materials are are given in the plans, however the Contractor shall verify all materials stated in the plans are in supply and give a certification letter assuring that these are the materials that will be used in the installation. If the Contractor wishes to use materials in place of what is shown in the plans, those materials must be on that list. Any additional materials to those shown in the plans, but required for installation, must be itemized on the material list.

PERMANENT PAVEMENT MARKINGS:

Traffic shall be temporarily guided with a flagger during the removal of the existing pavement markings and the installation of the new pavement markings. The work shall be done to leave one lane open while the other lane is removed or striped. Pavement Marking Material shall fall under KDOT's list of Intersection Grade Pavement Markings. The Contractor shall submit the specific type with the materials list before beginning construction.

INCIDENTAL GRADING AND SEEDING:

The incidental site grading and restoration as well as seeding, fertilizing and mulching of the disturbed area shall be subsidiary to other items in the contract. This includes any disturbed areas due to trenching the power service lines or areas adjacent to the pedestrian flasher footings. Permanent Seeding mixtures shall be as follows:

200 PLS/Acre Fertilizer (13-13-13)

0.5 PLS/Acre Seed (Lovington Blue Grama Grass)

4.5 PLS/Acre Seed (Treated Buffalograss)

45 PLS/Acre Seed (Perennial Ryegrass)

2.6 PLS/Acre Seed (Prairie Junegrass)

6.3 PLS/Acre Seed (El Reno Side Oats Grama Grass)

45 PLS/Acre Seed (Fescue)(Tall)(Endophyte-Free)

6 PLS/Acre Seed (Barton Western Wheatgrass)

EROSION CONTROL:

The Contractor shall use Best Management Practices to prevent the erosion of soil that was disturbed due to construction. This may include protecting stockpiles that accumulated from footing excavations or trenches. Protecting stockpile shall be done with a perimeter of biologs or by placing a ditch check down stream. If any disturbed area is to be left for more than 14 days, it shall recieve Temporary Seeding and Mulching. The Temporary Seeding Mix shall be as follows:

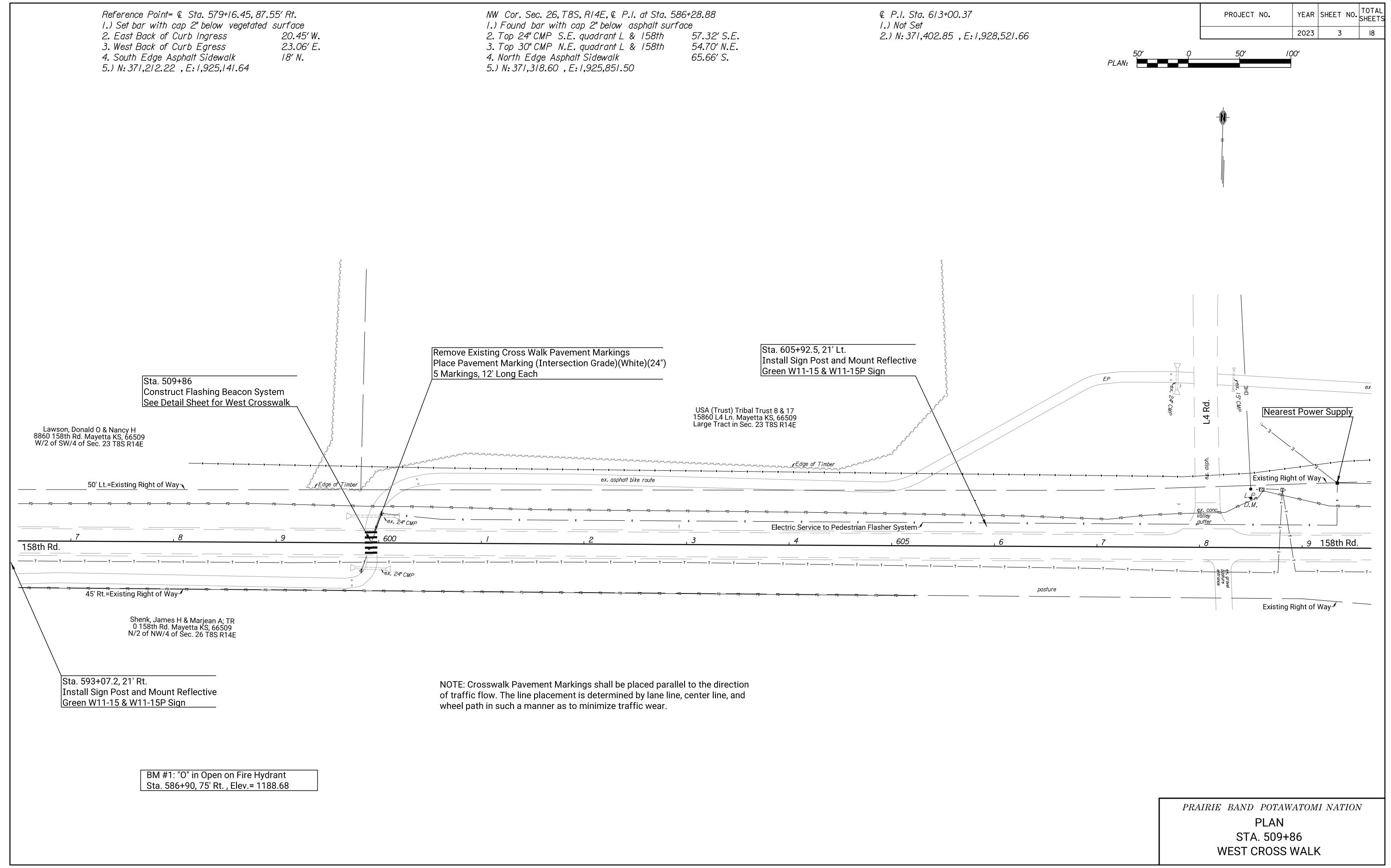
150 PLS/Acre Fertilizer (15-30-15) 20 PLS/Acre Seed (Canada Wild Rye) 45 PLS/Acre Seed (Grain Oats)

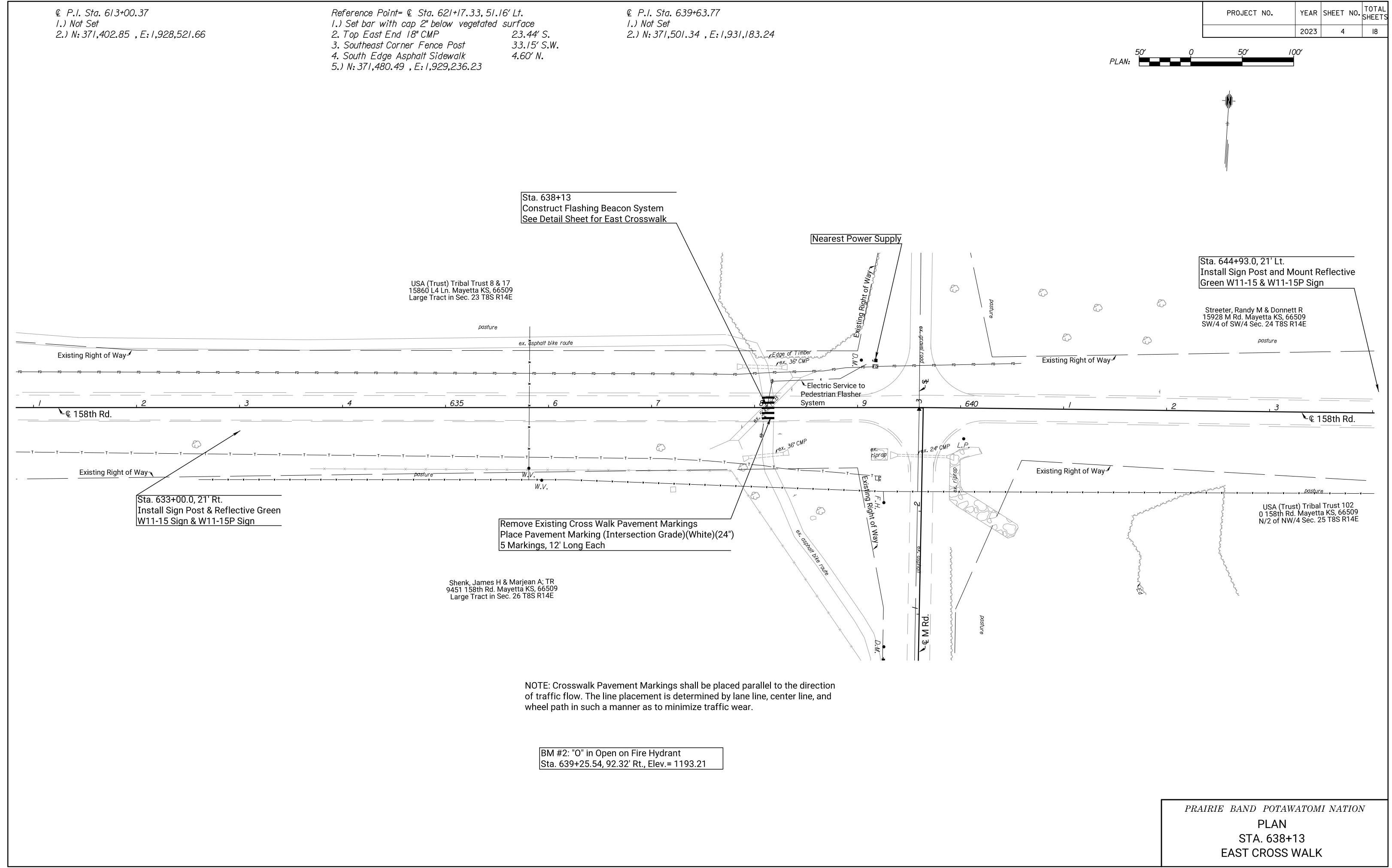
34 PLS/Acre Seed (Sterile Wheatgrass)

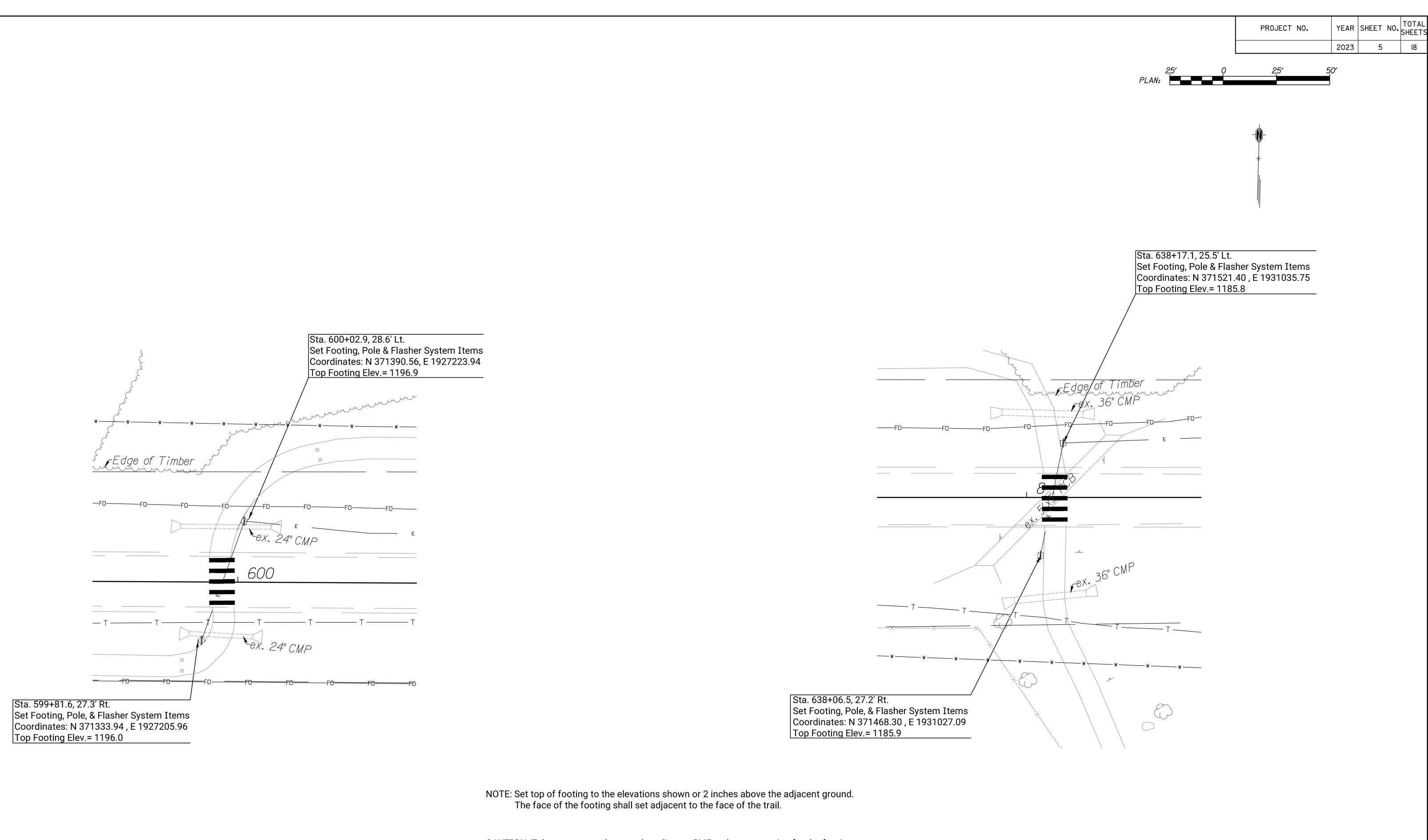
Due to the small project area and limited disturbances, all Erosion Control is subsidiary to other bid items of the contract.

PRAIRIE BAND POTAWATOMI NATION

GENERAL NOTES





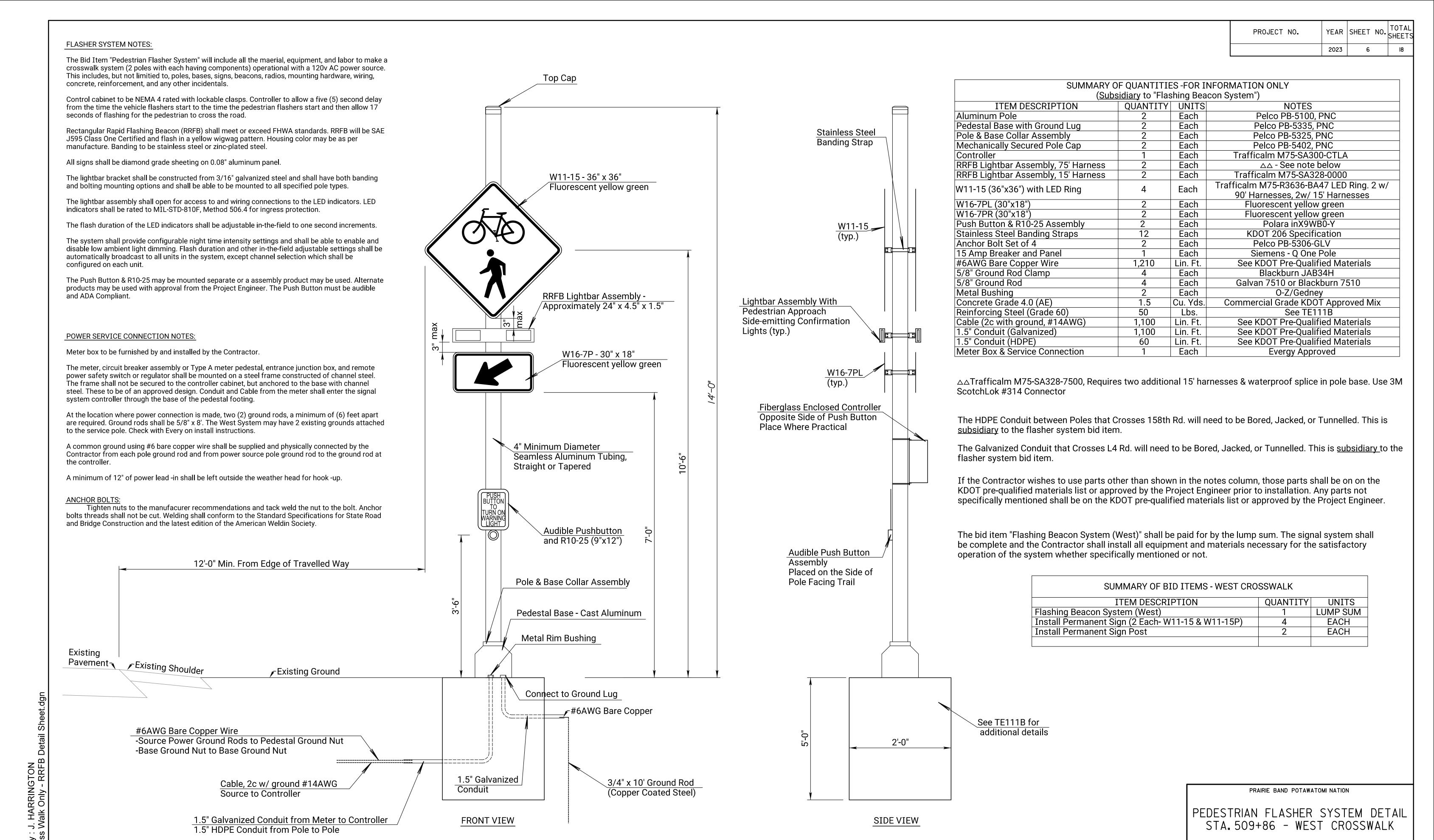


CAUTION: Take care not to damage the adjacent CMPs when excavating for the footings.

PRAIRIE BAND POTAWATOMI NATION

PLAN DETAIL

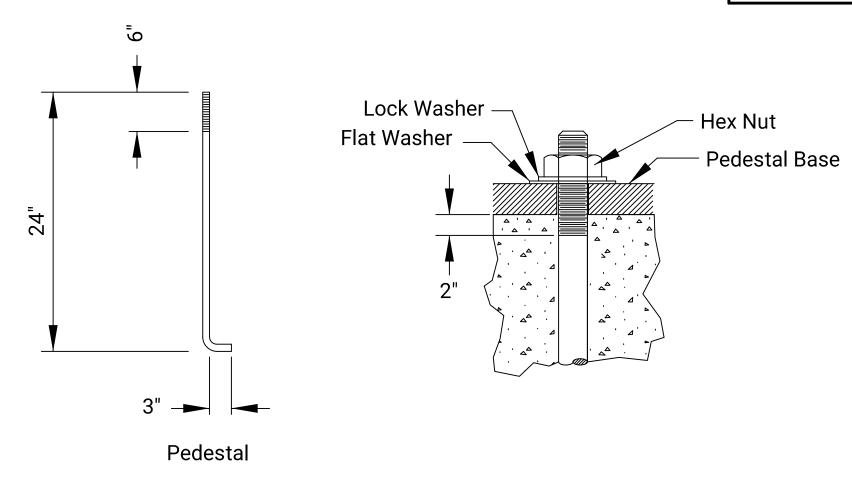
WEST AND EAST CROSSWALK



Sheet No. 6

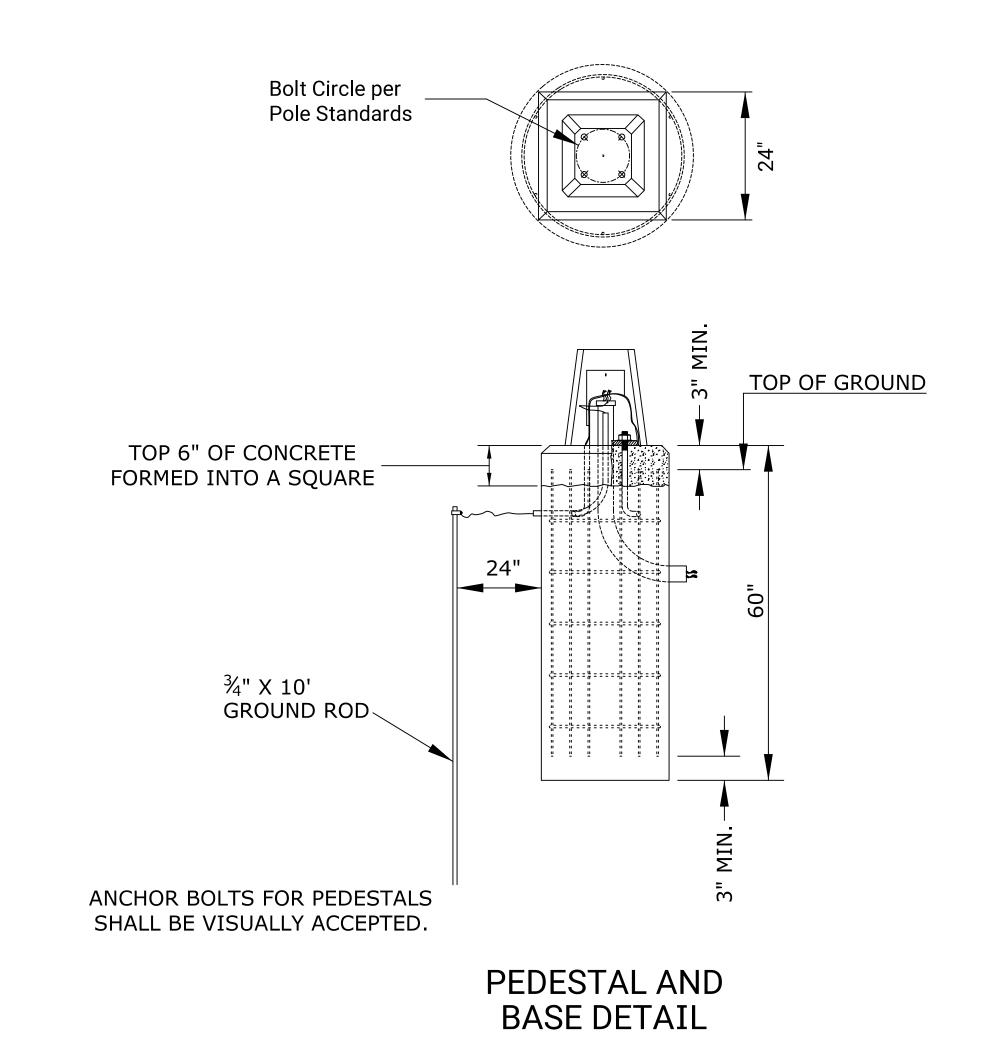
DETAILED JAH QUANTITIES JAH
DETAIL CK. QUAN.CK.

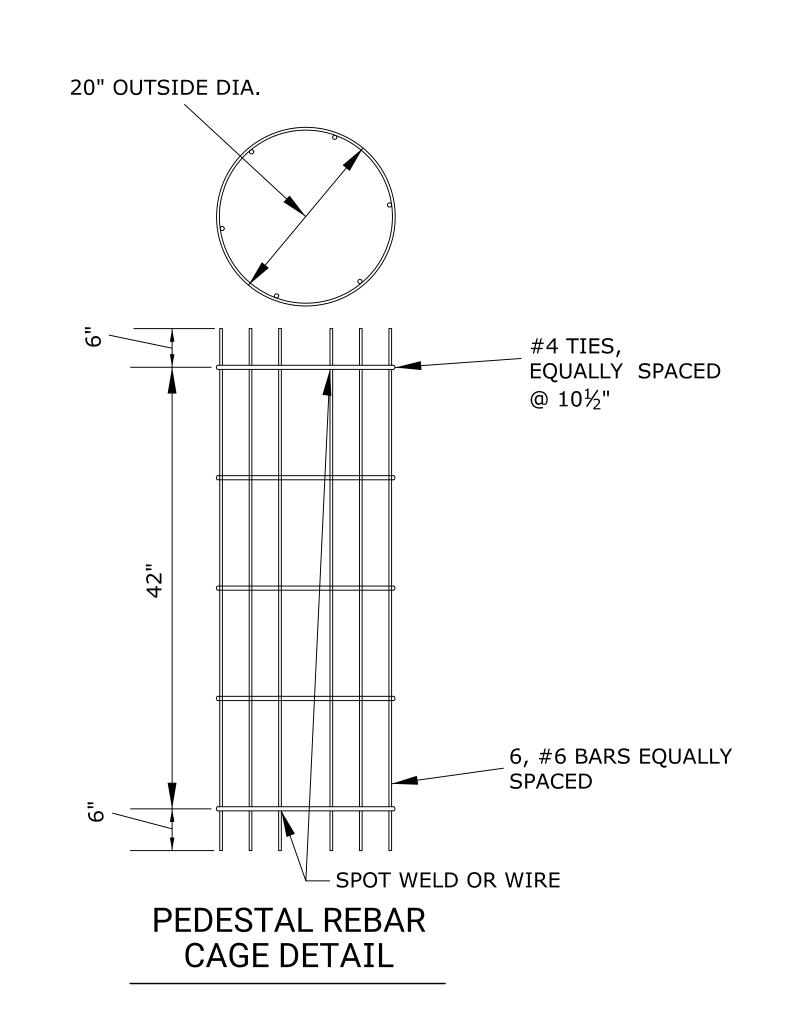
DESIGNED JAH DETAILED JAH QUANTITIES JAH DESIGN CK. DETAIL CK. QUAN.CK.



DIMENSIONS SHOWN ARE TYPICAL ONLY.
ACTUAL DIMENSIONS SHALL BE SUPPLIED
BY THE MANUFACTURER.

PEDESTAL ANCHOR BOLT DETAIL

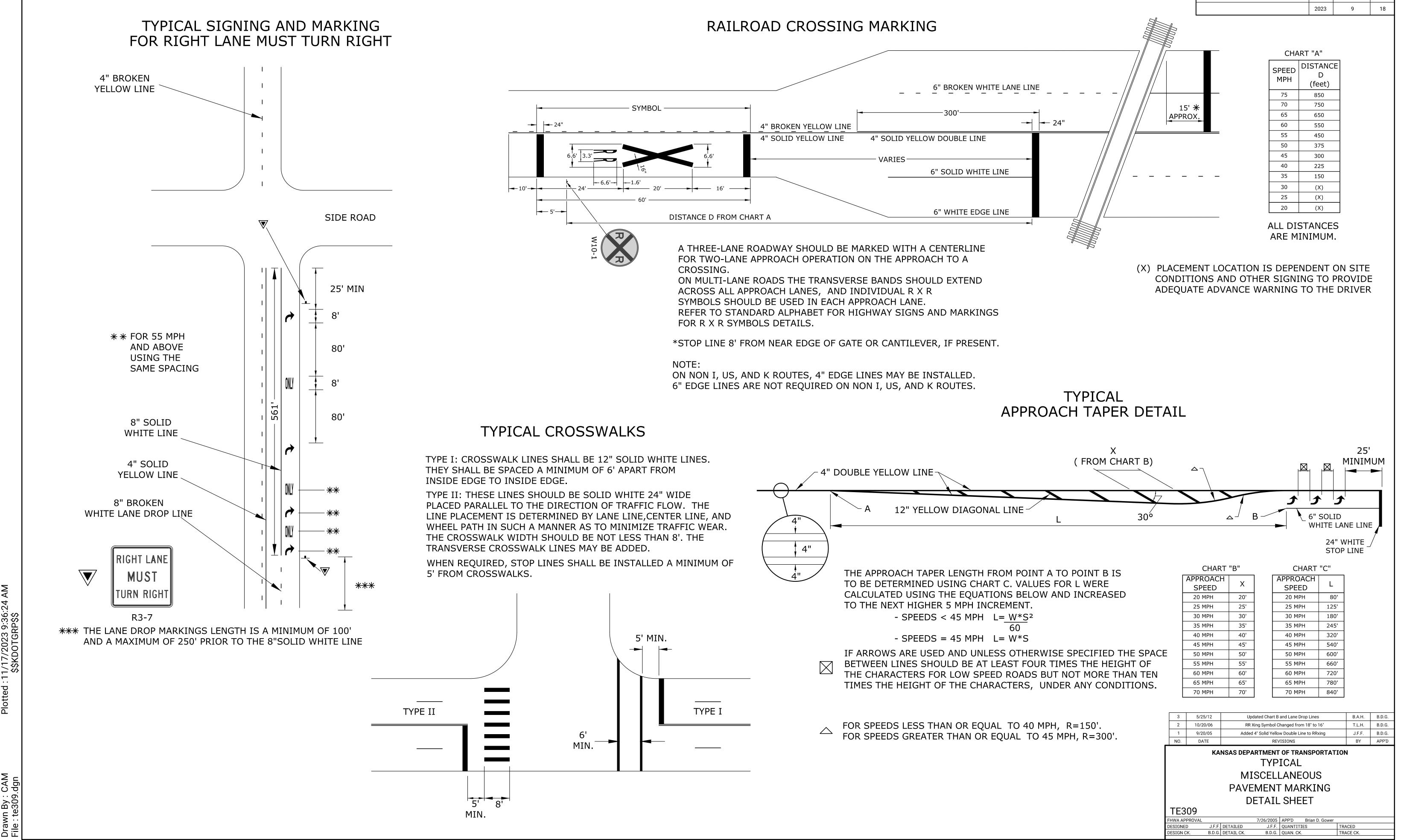




03	05-23-14	Added APS Push Button	C.P.A.	B.D.G.
02	11-02-12	Upgrade to R10-3e Sign	C.P.A.	B.D.G.
01	08-02-06	Sign Mounting Bracket Revision	J.F.F.	B.D.G.
NO.	DATE	REVISIONS	BY	APP'D
		KANSAS DEPARTMENT OF TRANSPORTATION		

TRAFFIC SIGNAL INSTALLATION DETAIL SHEET

TE111BFHWA APPROVAL12-31-15APP'D.Brian D. GowerDESIGNEDB.D.G.DETAILEDC.P.A.QUANTITIESTRACEDDESIGN CK.C.PA..DETAIL CK.B.D.G.QUAN.CK.TRACE CK.



Sheet No. 9

YEAR SHEET NO.

PROJECT NO.

				SL	JMMA	RY OF	PAV	EMEN	IT MA	RKIN	GS									
LOCATION	4" Solid WHITE Edge Line	6" Solid WHITE Edge Line	6" Broken WHITE Lane Line	6" Broken WHITE Lane Line (PCP)	6" Dotted WHITE Extension Line	6" Broken WHITE Lane Drop Line	6" Solid WHITE Lane Line	8" Broken WHITE Lane Drop Line	8" Solid WHITE Gore Line	8" Dotted WHITE Extension Line	12" Solid WHITE Diagonal Line	12" Solid WHITE Chevron Line	12" Solid WHITE Type I Crosswalk Line	24" Solid WHITE Type II Crosswalk Line	Solid	4" Solid YELLOW Edge Line	4" Solid YELLOW Double Line	4" Solid YELLOW Line	6" Solid YELLOW Edge Line	12" Solid YELLOW Diagonal Line
WEST CROSSWALK														60						
EAST CROSSWALK														60						
TOTALS														120						

ITEMS	TOTAL	UNITS
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(4")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(6")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(8")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(12")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(4")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(6")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(12")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(4")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(6")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(8")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(12")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(4")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(6")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(12")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(4")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(6")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(8")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(12")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(4")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(6")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(12")		FT
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(12")		FT
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(24")	120	FT
PAVEMENT MARKING (INTERSECTION GRADE)(YELLOW)(12")		FT
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(US-SHIELD)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(K-SHIELD)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(I-SHIELD)()		EACH
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(6")		FT
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(8")		FT
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(12")		FT
PAVEMENT MARKING REMOVAL	528	SQ FT

					S	UMMA	ARY C	OF WO	ORD 8	& SYM	BOL	MARK	KINGS	5						
LOCATION	4	4	↑	→	4	Ł	STOP	ONLY	X-ING	SCHOOL	70	435	24	400	\$	4	\$	\$	1	=><
	1																			
TOTALS																				
	•	•	1	•		'		1	1	<u>'</u>		1	•	1		·	1	'		

NOTE:

WORDS & SYMBOLS SHALL CONFORM TO THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" PRINTED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

PRIOR TO COMMENCEMENT OF PAVEMENT MARKING WORK THE ENGINEER WILL ESTABLISH THE LIMITS FOR "NO PASSING" ZONES. THESE LIMITS SHALL BE USED FOR THE LOCATION OF "NO PASSING" LINES AND FOR THE COMPUTATION OF ACTUAL MARKING QUANTITIES FOR THIS LINE TYPE.

2	5/25/12	Added Line Types, Symbols, and Shields	B.A.H.	B.D.G.
1	7/26/05	New FHWA Approval Date	J.F.F.	B.D.G.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
SUMMARY AND RECAPITULATION
OF PAVEMENT MARKING
QUANTITIES

TE311							
FHWA APPROVAL			5/25/2012	APP'D	Brian D. Gower		
DESIGNED	J.F.F.	DETAILED	J.F.F.	QUANTIT	IES	TRACED	
DESIGN CK.	B.D.G.	DETAIL CK.	B.D.G.	QUAN. CK	•	TRACE CK.	

NOTE: ALL TOTALS REFLECT ACTUAL QUANTITY OF PAVEMENT MARKING MATERIALS REQUIRED.

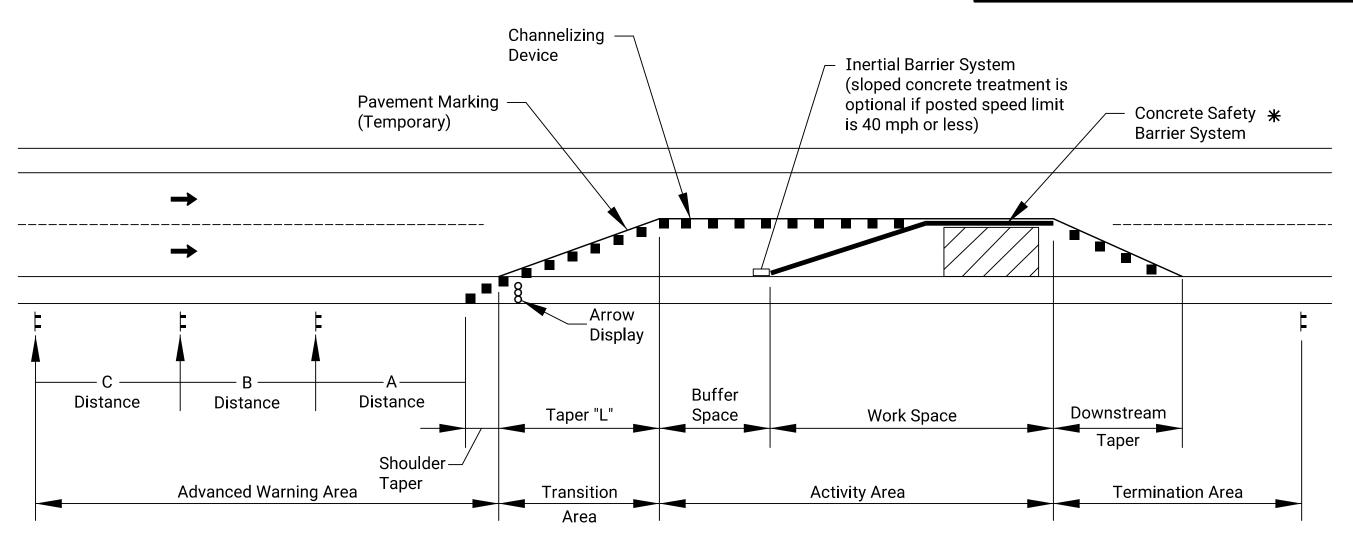
3) Consideration should be made to separate pedestrian and, if needed, bicycle movements from both work site activity and vehicular traffic. Unless a reasonable safe route that does not involve crossing the roadway can be provided, pedestrians should be appropriately directed with advance signing that encourages them to cross to the opposite side of the roadway. In urban and suburban areas with high vehicular traffic volumes, these signs should be placed at intersections (rather than midblock locations) so that pedestrians are not confronted with midblock work sites that will induce them to attempt skirting the work site or making a midblock crossing.

4) When existing pedestrian facilities are disrupted, closed, or relocated, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.

5) When the driving surface open to traffic is milled or is a temporary surface made of loose material, or when directed by the engineer a W8-15 (Grooved Pavement) or W8-7 (Loose Gravel) sign shall be used on mainline approaches. This sign should be placed a "C" distance after the W20-1 (Road Work Ahead) sign. A W8-15p motorcycle plaque shall be used to supplement the W8-15 or W8-7 signs. All signs shall be displayed as long as the condition is present.

6) Alternative temporary rumble strip options may be available. Please contact the Temporary Traffic Control Unit for more information at 785-296-1179 or 785-296-1183.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		2023	11	18



TYPICAL WORK ZONE COMPONENTS

*When concrete barrier system is used, portable channelizing devices are not needed along the tangent barrier section.

Minimum advance warning sign spacing (in feet):

SPEED (MPH) *	Α	В	С
URBAN (40 MPH OR LOWER)	100	100	100
URBAN (45 MPH OR HIGHER)	350	350	350
RURAL (55 MPH OR LOWER)	500	500	500
RURAL (60 MPH OR HIGHER)	750	750	750
EXPRESSWAY/FREEWAY	1000	1500	2640

* Posted speed prior to work starting

The minimum spacing between signs shall be no less than 100', unless directed by the engineer.

The spacing between any signs may be increased beyond the minimum values in the table above as approved by the engineer in order to maximize visibility.

Taper Formulas:

L = WS for speeds of 45 MPH or more

 $L = WS^2/60$ for speeds of 40 MPH or less

Where: L = Minimum length of taper in feet

S = Numericial value of posted speed prior to work starting in MPH

W = Width in offset feet

Shifting Taper=1/2 L Shoulder Taper=1/3 L

Channelizer Placement:

(1) The spacing between devices in transition area (taper) should not exceed a distance in feet equal to 1/2 the posted speed limit in mph prior to work starting.

(2) The spacing between devices in the advanced warning area and the activity area should not exceed a distance in feet equal to two times the posted speed limit in mph prior to work starting.

(3) Channelizing devices shall be placed for optimum visibility, normally at right angles to the traffic flow.

(4) Place directional indicator barricades in series to direct traffic onto the new path. The arrow sign should not be visible to opposing traffic.

(5) Alternating diagonal orange and white striping must slope downward in the direction traffic is expected to pass.

Buffer Space

SPEED (MPH) *	20	25	30	35	40	45	50	55	60	65	70	75
LENGTH (ft)	115	155	200	250	305	360	425	495	570	645	730	820

* Posted speed prior to work starting

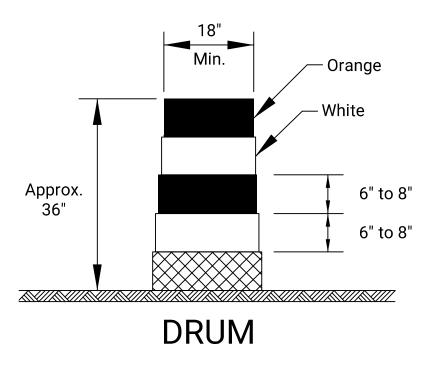
Neither work activity nor storage of equipment, vehicles, or material should occur in the buffer space. When a protection vehicle is placed in advance of the work space, only the space upstream of the vehicle constitutes the buffer space.

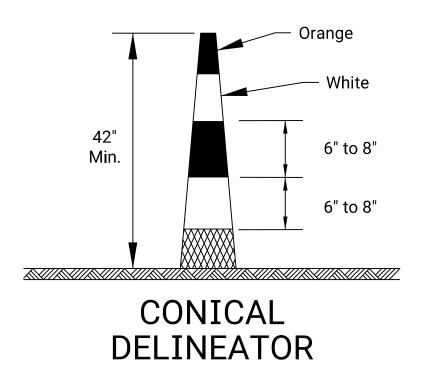
If temporary concrete safety barrier system is used to separate approaching traffic from the work space, the barrier system shall be considered part of the activity area. A full lane width should be available throughout the length of the buffer space. See typical work zone components above.

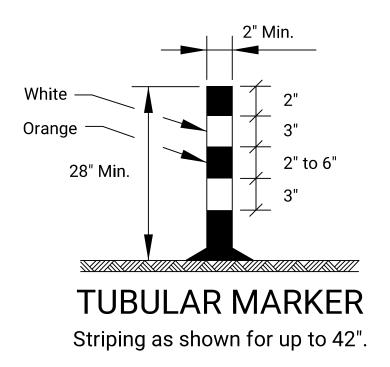
02	03-13-18	W8-15p usage changed to Shall	R.W.B.	E.K.G.
01	08-18-15	Channelizer spacing info	R.W.B.	K.E.
NO.	DATE	REVISIONS	BY	APP'D
		KANSAS DEPARTMENT OF TRANSPORTATION		

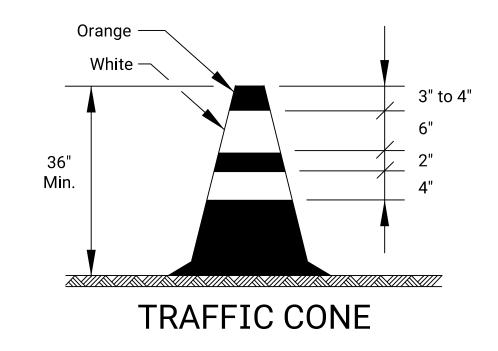
TRAFFIC CONTROL GENERAL NOTES

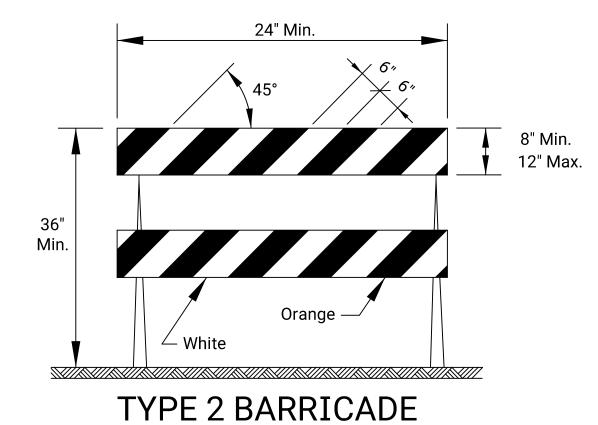
TE700						
FHWA APPRO)VAL		03-13-18	APP'D.	Eric	Kocher
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES	TRACED	
DESIGN CK.		DETAIL CK.		QUAN.CK.	TRACE CK.	

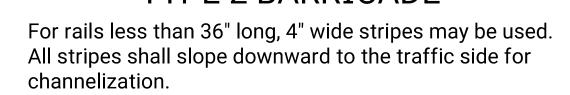


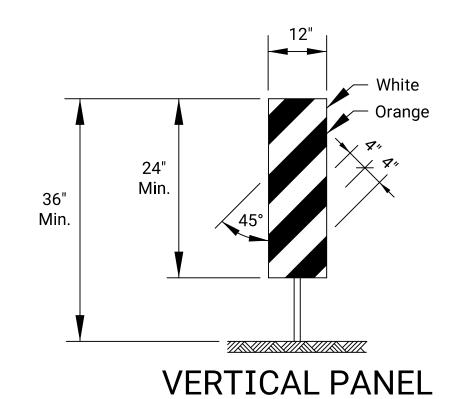




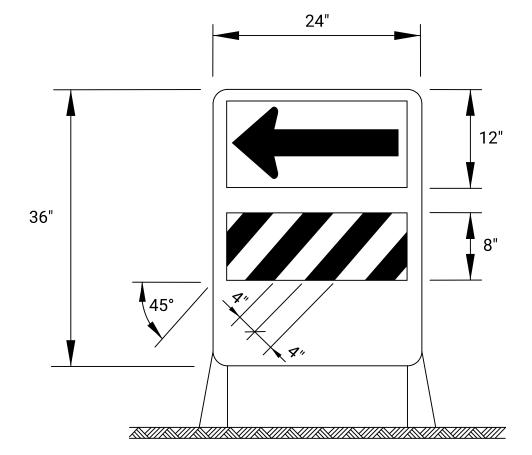






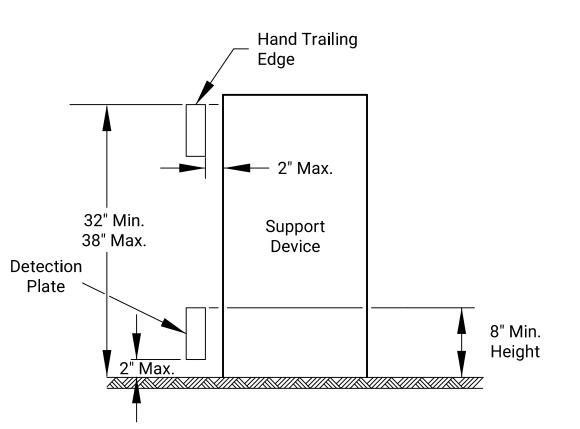


The stripes shall slope downward to the traffic side for channelization.



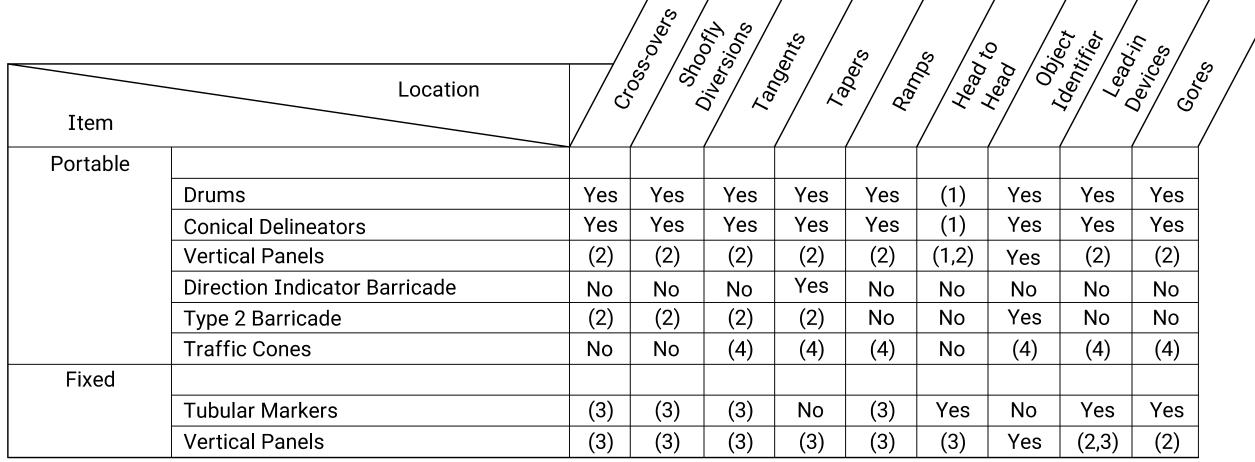
DIRECTION INDICATOR BARRICADE

The stripes shall slope downward in the direction traffic is to pass. The direction indicator barricade shall be used in series to direct the motorist into the intended lane of travel.



PEDESTRIAN CHANNELIZER

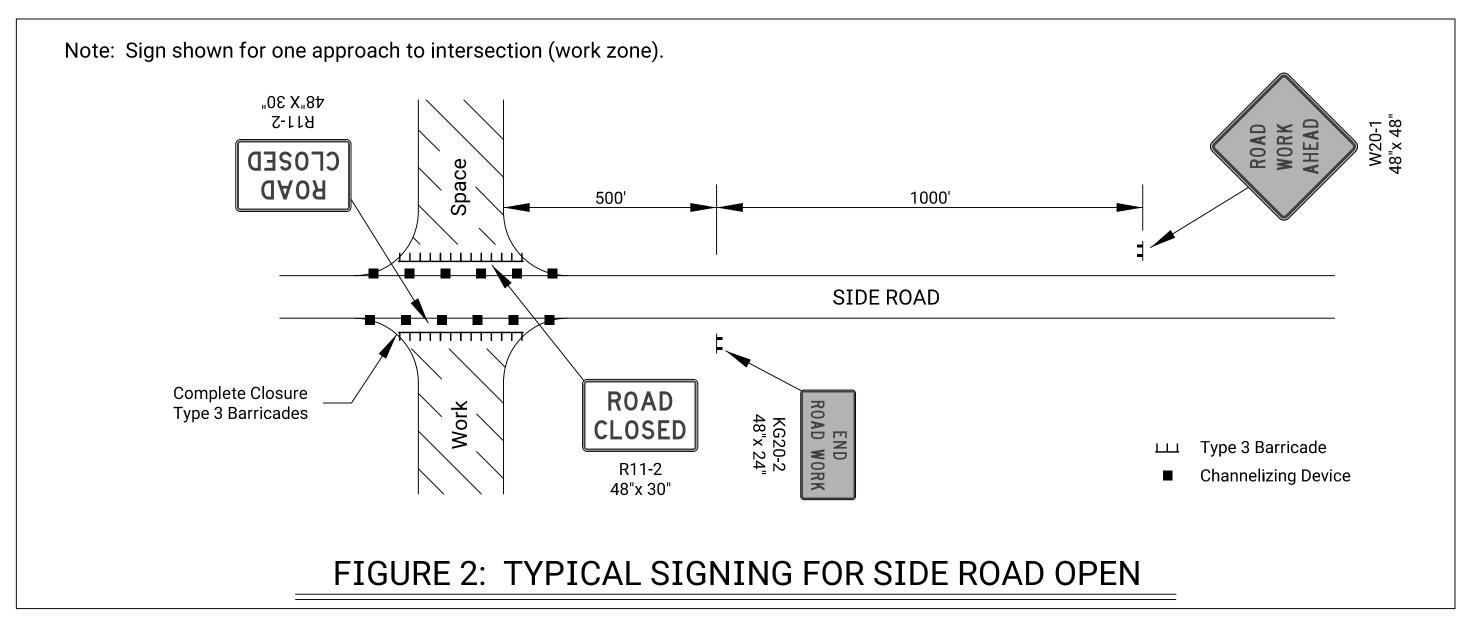
- 1. Support device shall not project beyond the detection plate into the pathway.
- 2. Hand trailing edges and detection plates are optional for continuous walls.
- 3. Interconnect pedestrian channelizers to prevent displacement and to provide continuous guidance through or around work.
- 4. Alternate pathways shall be firm, stable, and slip resistant.
- 5. Treat height differentials > 1/2" in the surfaces of alternate paths with a firm, stable, and slip resistant temporary ramp having a slope of 12:1 or flatter and having a width equal to the alternate path.
- 6. Use alternating orange/white on interconnected devices.

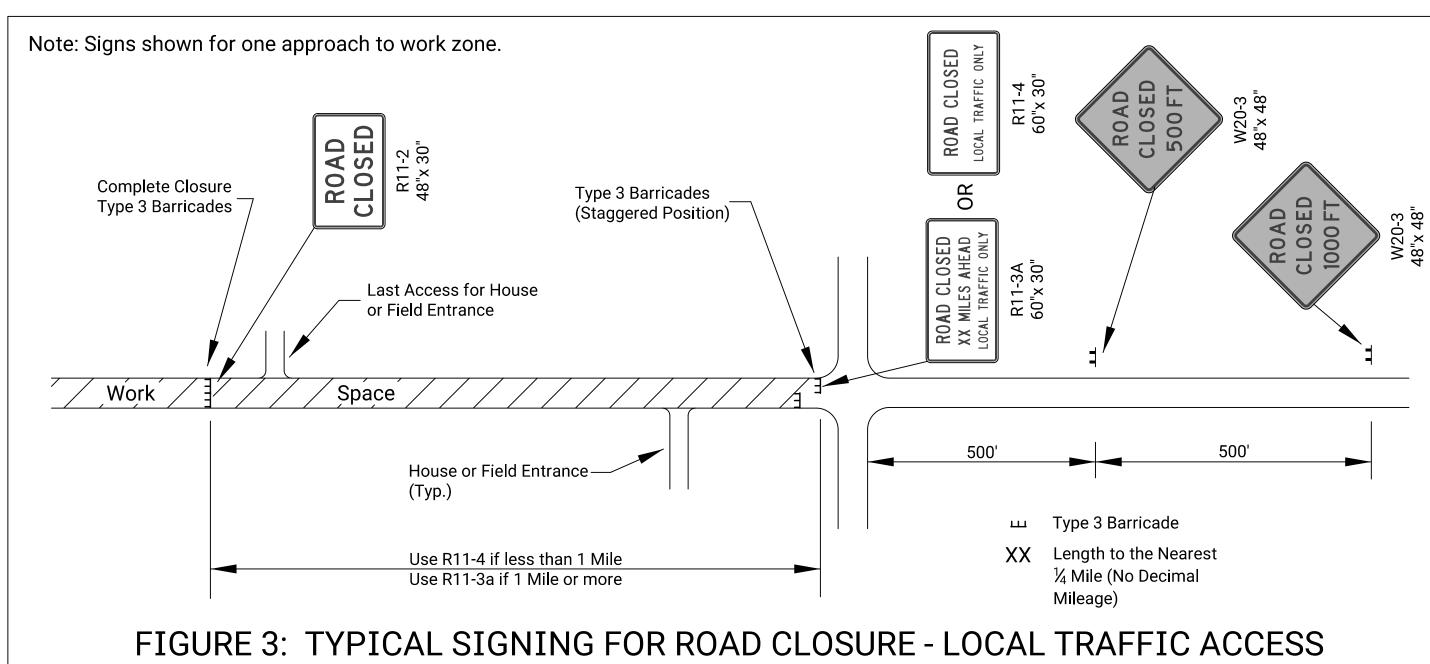


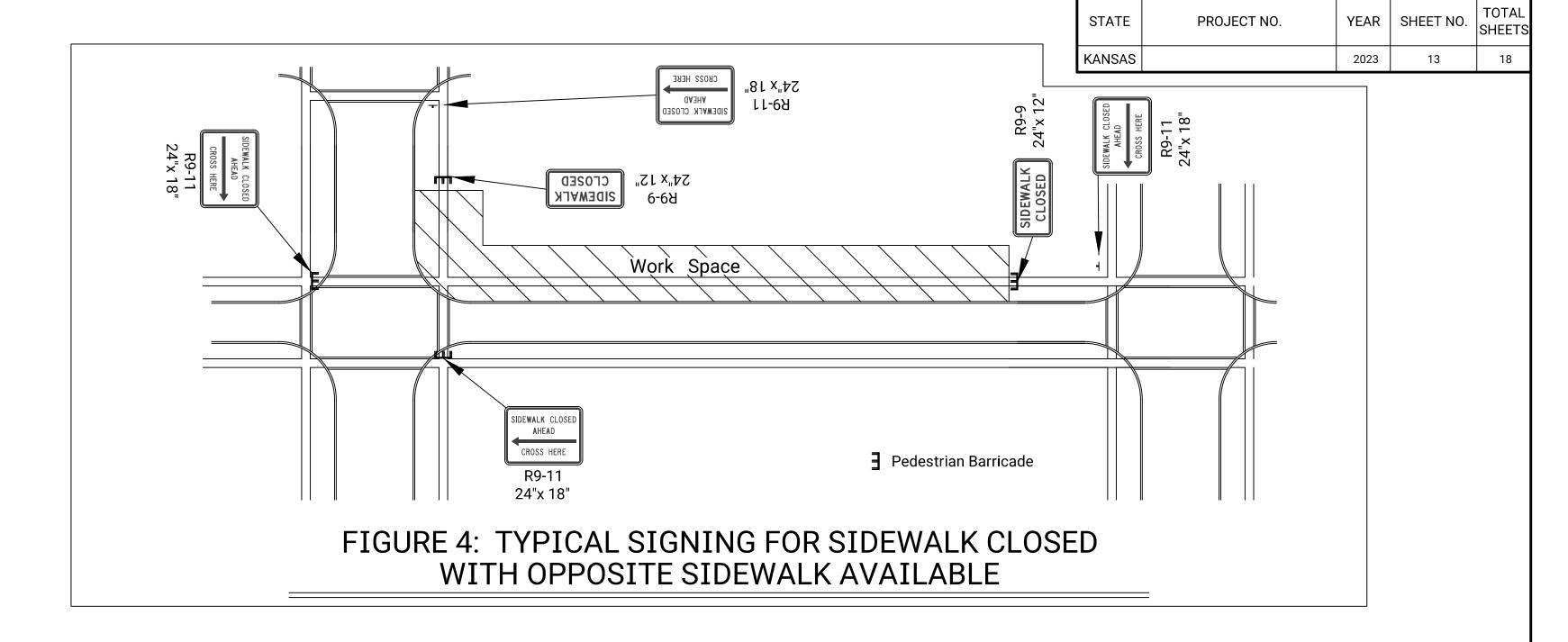
- (1) Not allowed on centerline delineation along freeways or expressways.
- (3) May be used upon the approval of the engineer.
- (4) Daytime operations only.

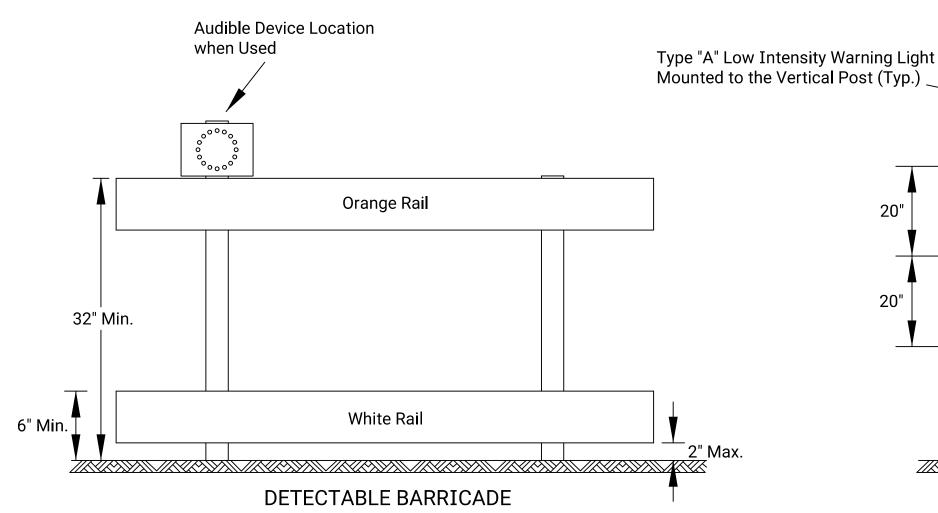


TRACED TRACE CK.

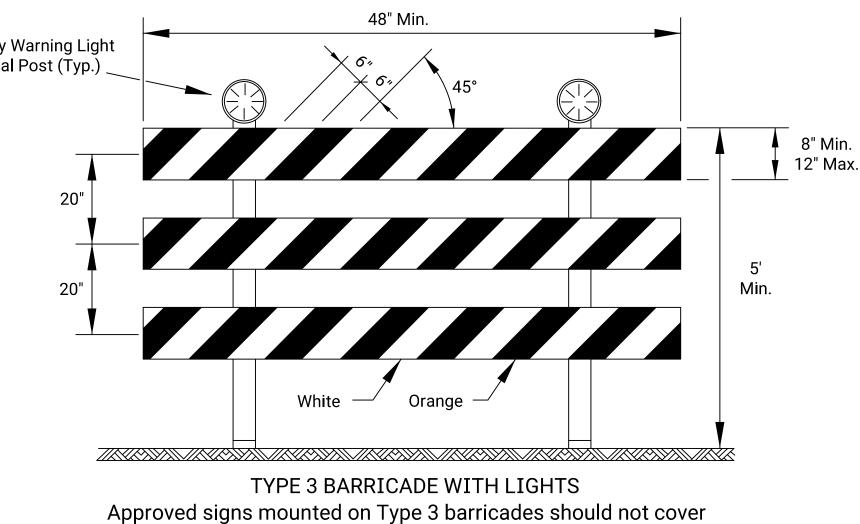








- 1. Support device shall not project beyond the detection plate into the pathway.
- 2. Barricades shall be used to close the entire width of the pathway.
- 3. Do not use warning lights on pedestrian barricades.
- 4. Do not use warning lights on audible devices.



more than 50% of the top two rails or 33% of the total area of the three rails.

When barricades are placed end-to-end or staggered, a Type "A" low intensity warning light shall be mounted to the vertical post near each outside corner of the end barricades.

ROAD CLOSED GENERAL NOTES

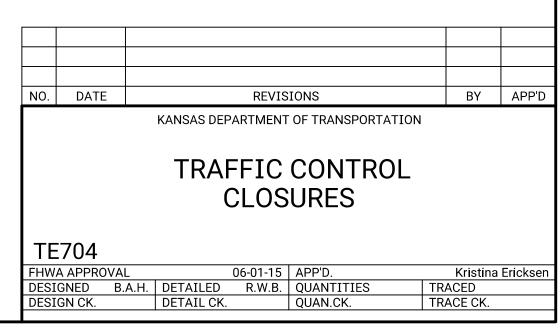
As shown in Figure 1, at the point where thru traffic must detour and local traffic can proceed to the location where the roadway is completely closed, the R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) or R11-4 (ROAD CLOSED LOCAL TRAFFIC ONLY or ROAD CLOSED TO THRU TRAFFIC) sign shall be used with Type 3 barricades (winged position), placed on the shoulders of roadway.

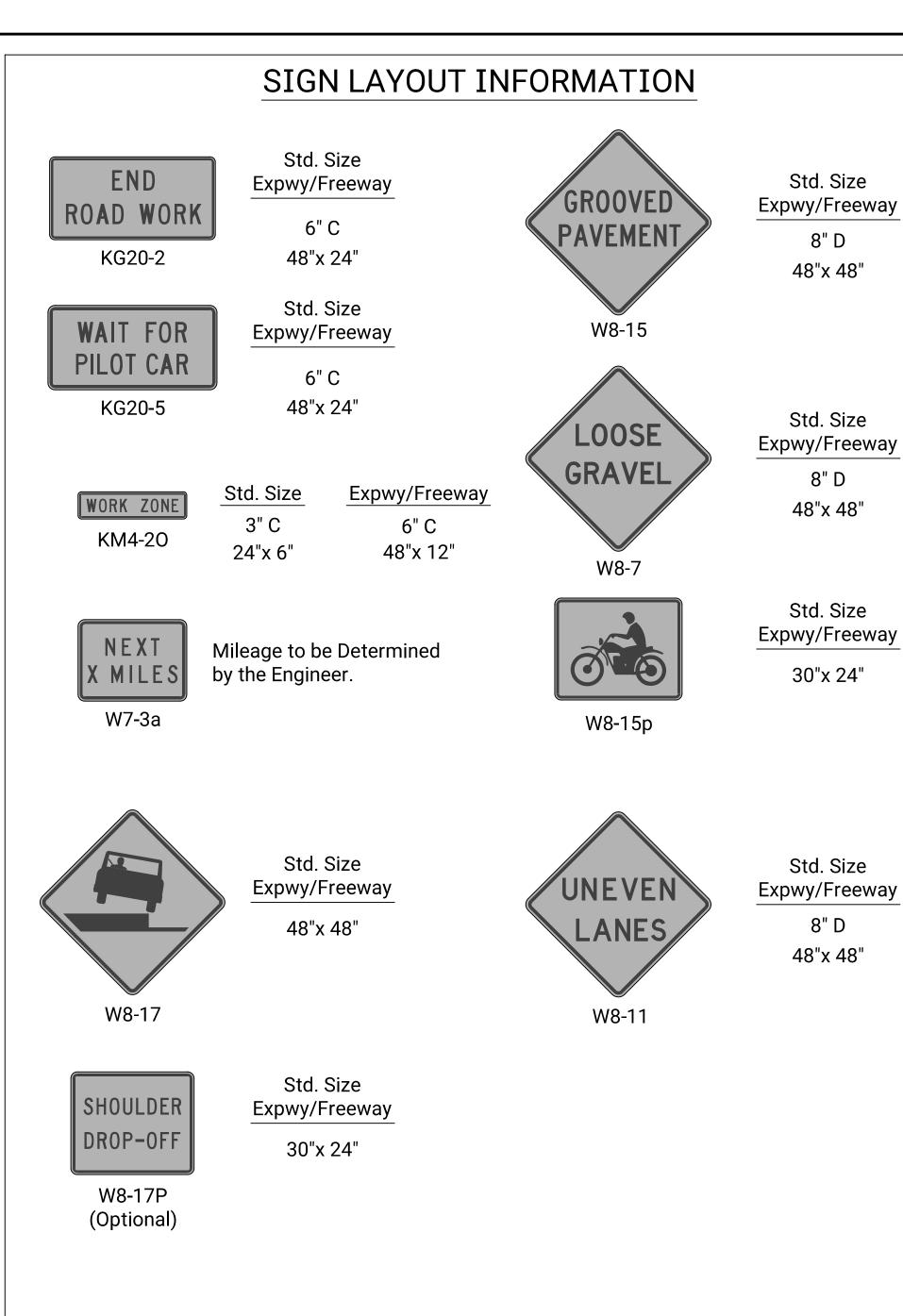
As shown in Figure 3, when local traffic must be allowed access into the work zone, Type 3 barricades shall be longitudinally staggered to maintain the appearance of a closed roadway. A second line of end-to-end Type 3 barricades shall be placed just beyond the last access point in the work zone, to completely close the roadway.

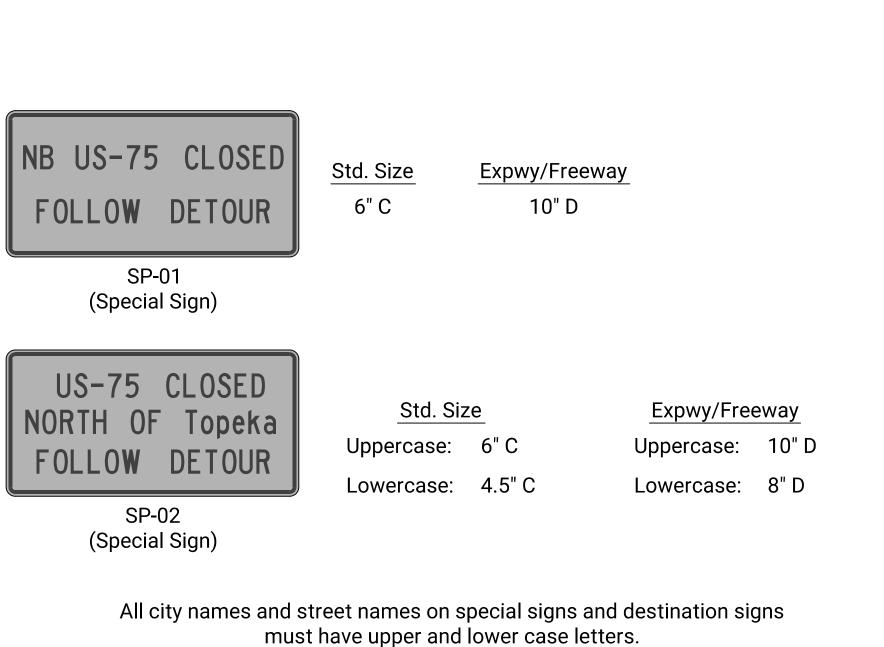
The R11-4 (ROAD CLOSED TO THRU TRAFFIC or ROAD CLOSED LOCAL TRAFFIC ONLY) sign shall be used when the distance to the point of complete closure of the roadway is less than 1 mile.

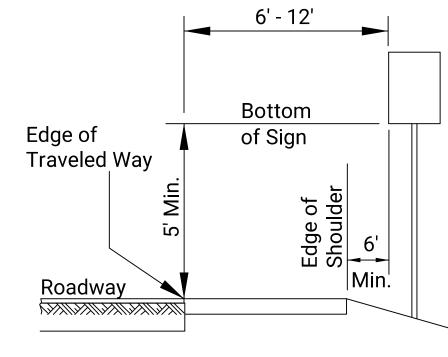
The R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) sign shall be used when the distance to the point of complete closure of the roadway is 1 mile or greater.

The words "BRIDGE OUT" (or BRIDGE CLOSED) may be substituted for the words "ROAD CLOSED" on the R11-3a or R11-4 sign where applicable.



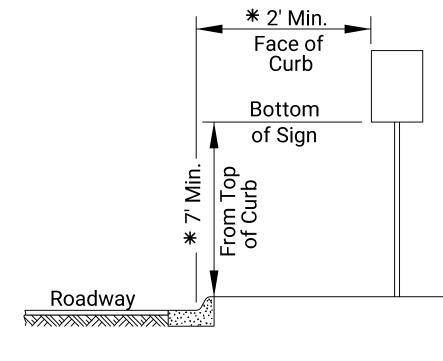






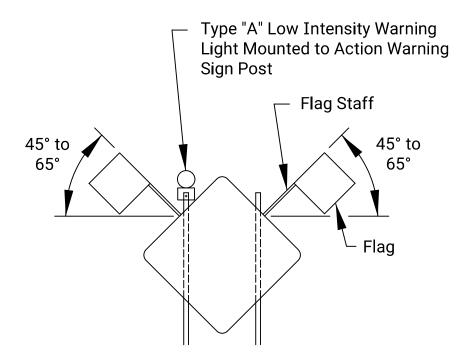
RURAL

- 1) Ground-mounted signs shall be mounted at a minimum height of 5' measured from the bottom of sign to the near edge of the pavement.
- 2) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.
- 3) The height of the secondary sign mounted below another sign may be 4' measured from the bottom of the sign to the near edge of the pavement. Signs shall not overlap each other.



URBAN

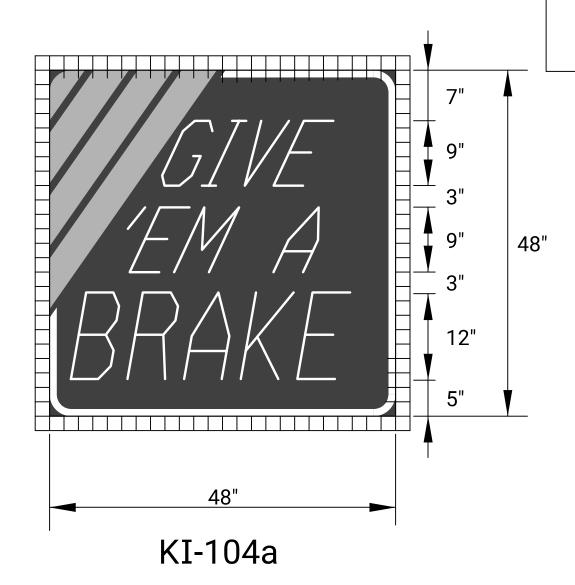
- 1) Signs shall be mounted at a minimum height of 7' measured from the bottom of sign to the near edge of the pavement.
- 2) Neither portable nor permanent sign supports should be located on sidewalks or areas designated for pedestrian or bicycle traffic.
- 3) Signs mounted lower than 7' should not project more than 4" into pedestrian facilities.
- 4) The height from of the secondary sign mounted below another sign may be 6' measured from the bottom of sign to the near edge of the pavement. Signs shall not overlap each other.
- 5) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.
- * 6) Pedestrian detour signing shall be a minimum of 2' measured from the top of the pedestrian pathway to the bottom of the sign and shall not protrude into the walkway nor shall it project beyond the back of curb.



When the sign width is equal to or greater than 9', three or more wood posts may be used with a minimum of 4' between the centerline of each post. All signs less than 9' in width shall use a maximum of two wood posts.

In the case of hitting rock when driving posts

- 1. Shift the sign location. Do not violate minimum sign spacing.
- 2. With the engineer's approval, use acceptable alternative sign stands.



Sign Number	GIVE EM A BRAKE
Width x Height	4'-0" x 4'-0"
Border Width	1.0"
Corner Radius	4.0"
Stripe Width	3.0"
Mounting	Ground
Background	Type: Non-Reflective
	Color: Black
Legend/Border	Type: Reflective
	Color: White
Legend Font	Dutch 801 Roman SWC 25 Degree Slant
Stripes	Type: Reflective
	Color: Orange

PROJECT NO.

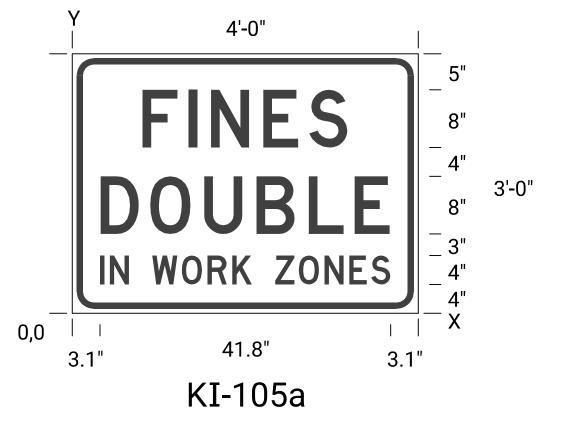
STATE

KANSAS

YEAR SHEET NO. SHEETS

14

2023



Sign Number	FINES DOUBLE
Width x Height	4'-0" x 3'-0"
Border Width	0.9"
Corner Radius	3.0"
Mounting	Ground
Background	Type: Reflective
	Color: White
Legend/Border	Type: Non-Reflective
	Color: Black

Dimensions in inches

Spacings are to start of next letter

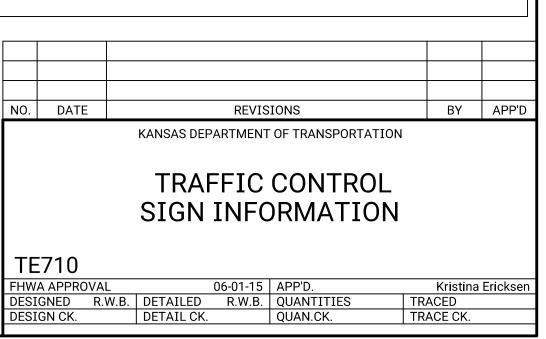
Y FONT	LETTER SPACINGS									HT LEN							
23.0		H	Ι	N	Е	S											8.0
D	9.7	6.4	3.2	7.3	6.4	5.4	9.7										28.6
11.0		D	0	U	В	L	E										8.0
D	3.9	6.9	7.5	7.3	7.3	6.4	4.9	3.9									40.3
4.0		Ι	N		W	0	R	K		Z	0	N	Е	S			4.0
D	3.1	1.6	2.7	3.2	4.3	3.8	3.6	2.8	3.2	3.4	3.8	3.6	3.2	2.7	3.1		41.8

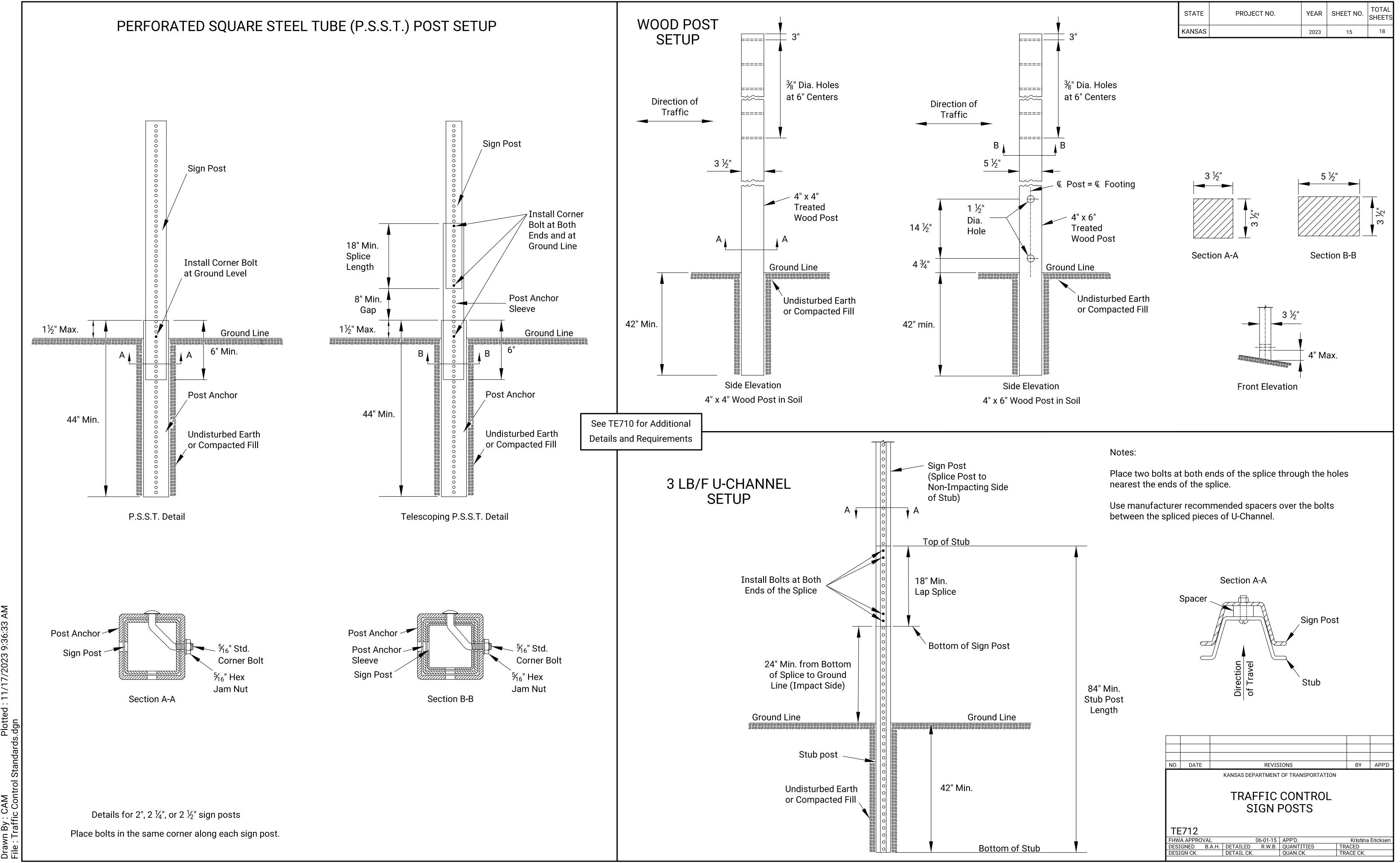
Notes:

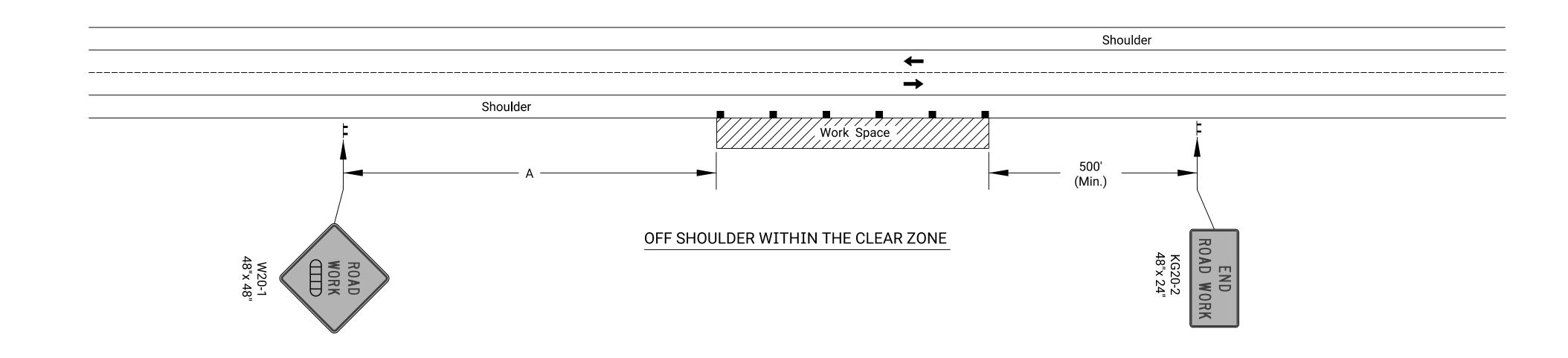
Typically, there are two sets of informational signs installed per project: one for each direction of traffic.

Install signs a minimum of 500' in advance of the road work ahead sign. The engineer may designate a more appropriate location if conditions dictate.

The informational signs are not to interfere with the traffic control signs for the project.



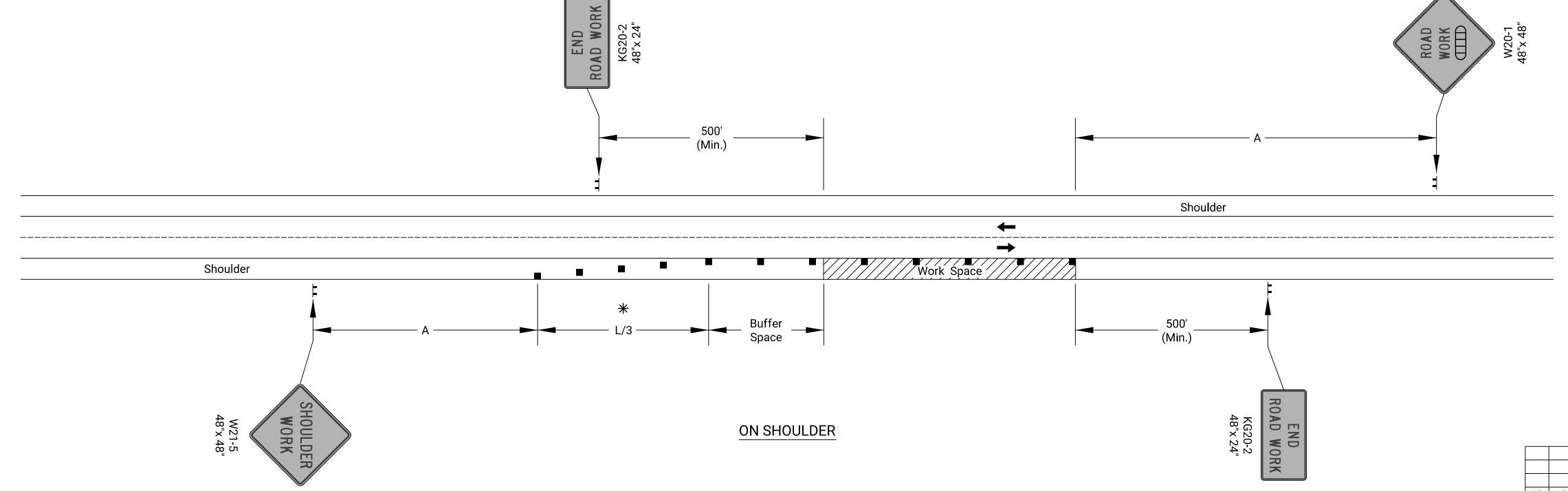




Notes:

No traffic control is required if the Work Space is located outside of the clear zone.

For operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with high-intensity rotating, flashing, oscillating, or strobe lights is used.



* Omit taper if paved shoulder is less than 8' wide.

Channelizing Device

Ahead, 1500 ft, or 1 Mile

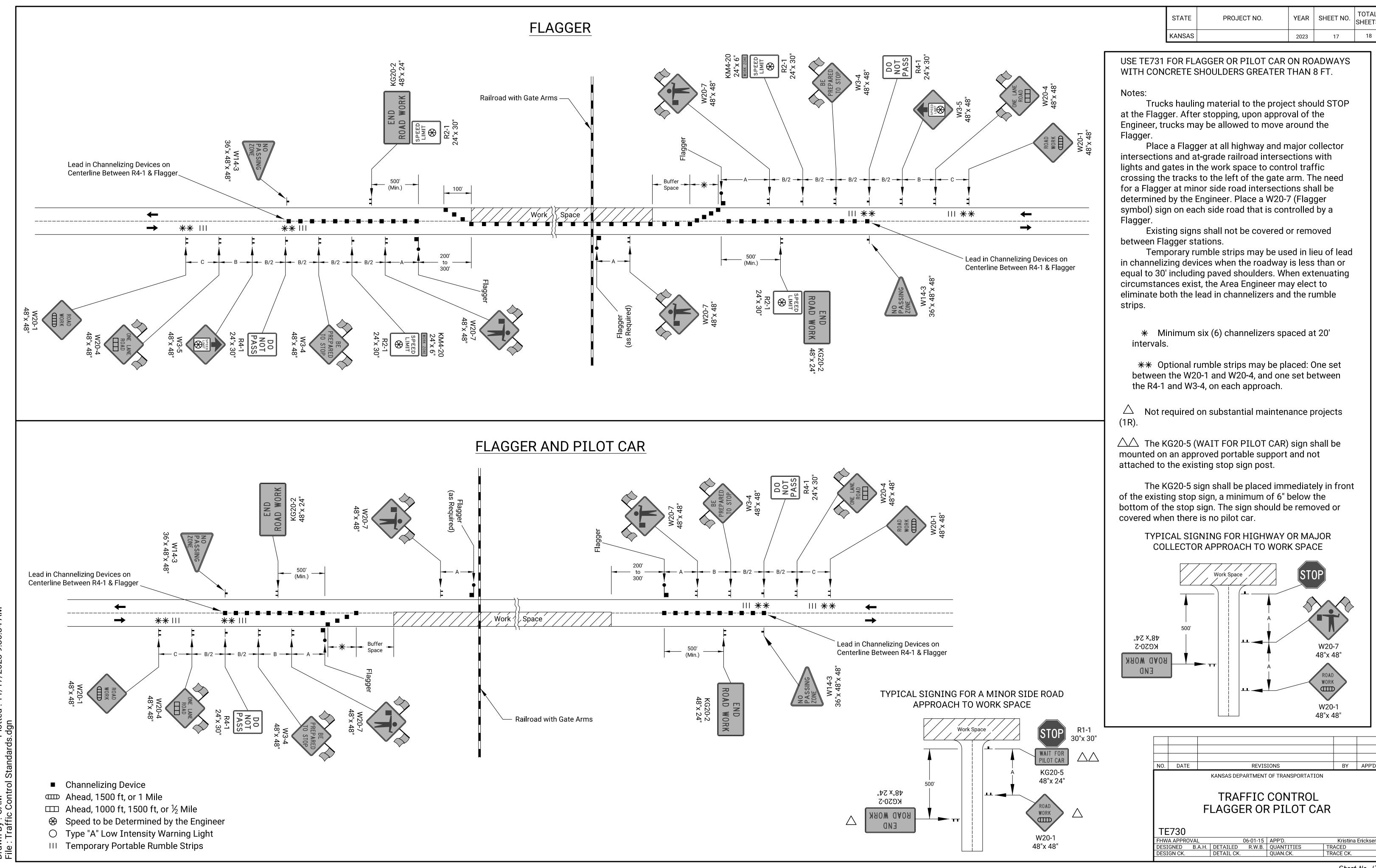
NO. DATE REVISIONS BY APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
SHOULDER WORK
UNDIVIDED ROADWAY

TE720

FHWA APPROVAL 06-01-15 APP'D. Kristina Ericksen
DESIGNED L.E.R. DETAILED R.W.B. QUANTITIES TRACED
DESIGN CK. DETAIL CK. QUAN.CK. TRACE CK.



SUMMARY OF TRAFFIC CONTROL DEVICES (EACH)

Work Zone Sign (Special)						
Sign No.	16.25 Sq.Ft. & Less	16.26 Sq.Ft. & Over				
SP-1		1				
SP-2		1				
		2				

SUMMARY OF TRAFFIC CONTROL DEVICES (EACH PER DAY)

* Quantity most used on the project at any one time

	Work Z	one Signs +	
Sign No.	0-9.25	Size - Sq.Ft. 9.26-16.25	16.26 & Over
W20-7	0 7.20	2	10.20 0 010.
W20-1		2	
W20-4		2	
W3-4		2	
W3-5		2	
W14-3	2		
W21-5		1	
R4-1	2		
R2-1	2		
KM4-20	2		
KG20-2	2		
Total	10	11	

Barrio	cades *	Cha	nnelizing Dev	vices *
Type 3 (4' to 12')	Pedestrian	Fixed	Portable	Pedestrian
			100	

Lighted Devices *	
Work Zone Warning Light (Type "A" Low Intensity)	
Work Zone Warning Light (Red Type "B" High Intensity)	
Arrow Display	
Portable Changeable Message Sign	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ANSAS		2023	18	18

Item	Quantity	Unit
Work Zone Signs (0 to 9.25 Sq.Ft.)	323	Each Per Day
Work Zone Signs (9.26 to 16.25 Sq.Ft.)		Each Per Day
Work Zone Signs (16.26 Sq.Ft. & Over)		Each Per Day
Work Zone Barricades (Type 3 - 4' to 12')		Each Per Day
Work Zone Barricades (Pedestrian)		Each Per Day
Channelizer (Fixed)		Each Per Day
Channelizer (Portable)		Each Per Day
Channelizer (Pedestrian)		Each Per Day
Work Zone Warning Light (Type "A" Low Intensity)		Each Per Day
Work Zone Warning Light (Red Type "B" High Intensity)		Each Per Day
Arrow Display		Each Per Day
Portable Changeable Message Sign		Each Per Day
Pavement Marking (Temporary)		
4" Solid (Type I)		Sta./Line
4" Solid (Type II)		Sta./Line
4" Broken (8.0') (Type I)		Sta./Line
4" Broken (8.0') (Type II)		Sta./Line
4" Broken (3.0') (Type I)		Sta./Line
4" Broken (3.0') (Type II)		Sta./Line
4" Dotted Extension (Type I)		Sta./Line
4" Dotted Extension (Type II)		Sta./Line
Solid (Line Masking Tape)		Sta./Line
Broken (Line Masking Tape)		Sta./Line
Symbol (Type I)		Each
Symbol (Type II)		Each
Flexible Raised Pavement Marker (4" Broken (8.0'))		Sta./Line
Flexible Raised Pavement Marker (4" Broken (3.0'))		Sta./Line
Pavement Marking Removal		Lin. Ft.
Work Zone Sign (Special) (16.25 Sq. Ft. & Less)		Each
Work Zone Sign (Special) (16.26 Sq. Ft. & More)		Each
Rigid Raised Pavement Marker (Type I)		Each
Rigid Raised Pavement Marker (Type II)		Each
Traffic Signal Installation (Temporary)		Lump Sum
Traffic Control (Initial Set Up)		Lump Sum
Traffic Control 🗨	Lump Sum	Lump Sum
Flagger (Set Price)	Lamp Gam	Hour

The cost of flaggers shall be <u>subsidiary</u> the bid item "Traffic Control, Lump Sum".

NO.	DATE	REVISIONS	BY	APP
		MANICAC DEDARTMENT OF TRANSPORTATION		

TRAFFIC CONTROL
SUMMARY OF DEVICES
RECAPITULATION OF QUANTITIES

TE795

FHWA APPROVAL 06-01-15 APP'D. Kristina Ericles In Comparison of C