09-23-2022 LETTING ITEM 033

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

VARIOUS

D-91-198-22

2022 CABLE 01



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUBMITTED JUNE 30 20 ZZ

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

# **PROPOSED** HIGHWAY PLANS

VARIOUS ROUTES (I-55, I-57, I-80 & IL 394) AT VARIOUS EXPRESSWAY MEDIANS SECTION: 2022 CABLE 01 HIGH TENSION CABLE BARRIER REPAIR **VARIOUS COUNTIES** C-91-249-22

> **SEE LOCATION MAP** SHEET 4

J.U.L.I.E, JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705-4580 PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

CONTRACT NO. 62T88

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### INDEX OF SHEETS

### STATE STANDARDS

SHEET NO.	DESCRIPTION
1	COVERSHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	LOCATION MAP
5 - 6	HIGH TENSION GUARDRAIL DETAILS (BRIFEN USA)
7	HIGH TENSION GUARDRAIL DETAILS (GIBRALTAR)
8	HIGH TENSION GUARDRAIL DETAILS (TRINITY)
9	ENTRANCE RAMP AND CLOSURE DETAILS (TC-08)
10	TRAFFIC CONTROL AND PROTECITON FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
11	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
12	HIGHWAY TRAFFIC CONTROL FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
13	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18)

STANDARD NO.	DESCRIPTION
635001 - 02	DELINEATORS
701101 - 05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106 - 02	OFF-ROAD OPERATIONS, MULTILANE, > 15' AWAY
701400 - 11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411 - 09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
701421 - 08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426 - 09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS $\geq$ 45 MPH
701428 - 01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701901 - 08	TRAFFIC CONTROL DEVICES

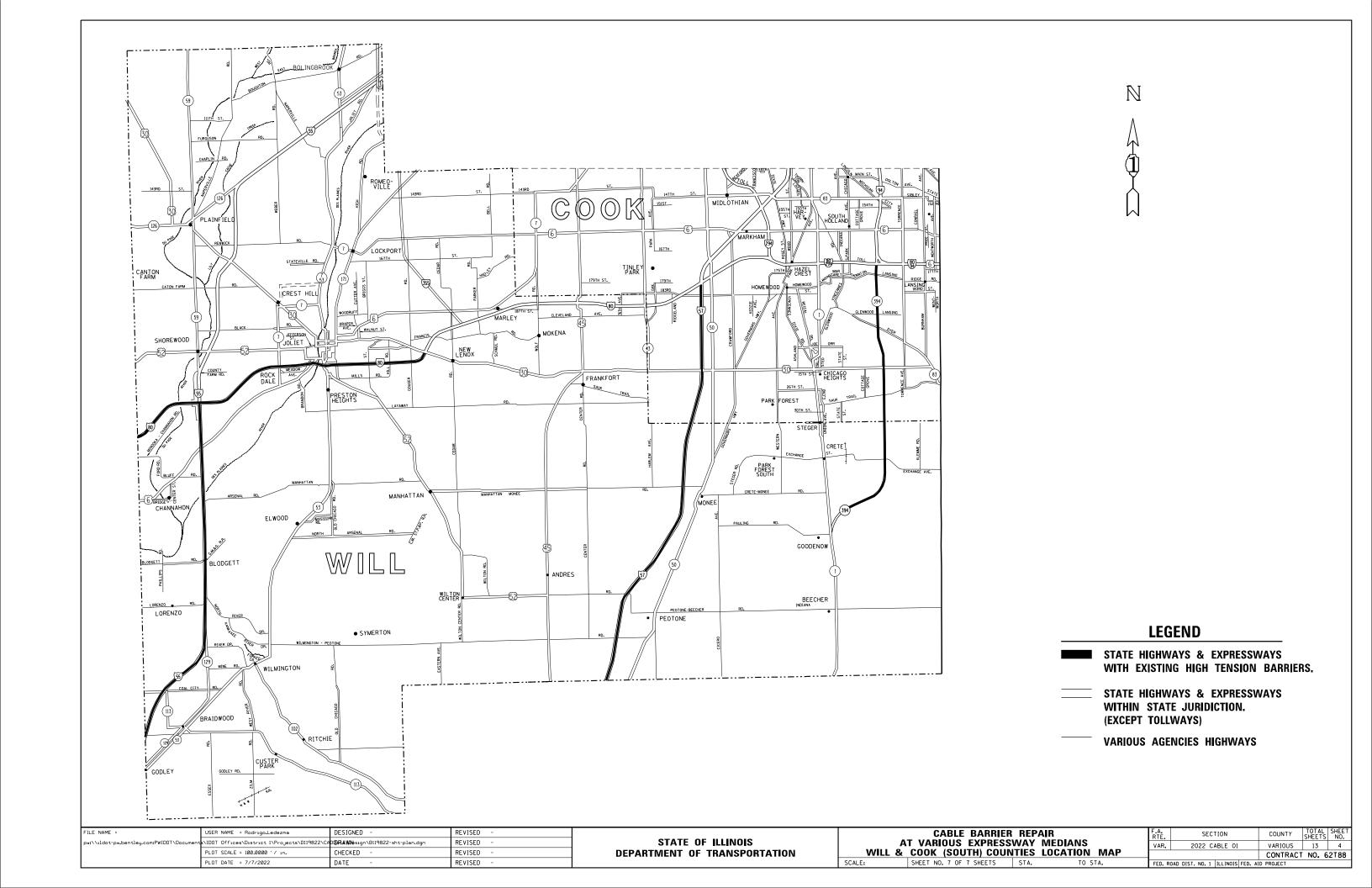
- GENERAL NOTES
- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. THE CONTRACTOR SHALL CALL STATE ELECTRICAL CONTRACTOR AT (773) 287-7600 TO LOCATE STATE OWNED FACILITIES.
- 5. THE CONTRACTOR SHALL WORK IN THE DIRECTION OF TRAFFIC.
- 6. THE CONTRACTOR WILL NOT BE ALLOWED TO STORE MATERIALS OVERNIGHT IN THE MEDIAN.
- 7. THE PROPOSED DEPTH OF THE CONCRETE SOCKETED FOUNDATIONS SHALL BE 42" (MINIMUM).
- 3. STANDARDS 701400 & 701401 SHALL BE USED FOR ALL LANE CLOSURES EXCEPT ON IL 394 SOUTH OF SAUK TRAIL, WHERE STANDARD 701421 SHALL BE USED.
- 9. CONTRACTOR SHALL REGISTER, SUBMIT AND GAIN THE APPROVAL FOR ALL DAILY LANE CLOSURE REQUESTS VIA <u>WWW\_IDOTLCS\_COM</u> AT LEAST 24 HOURS IN ADVANCE OF ALL WORK.
- 10. THE CONTRACTOR SHALL NOTIFY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR (847-705-4151) 72 HOURS IN ADVANCE OF ALL WORK ON THE INTERSTATE.

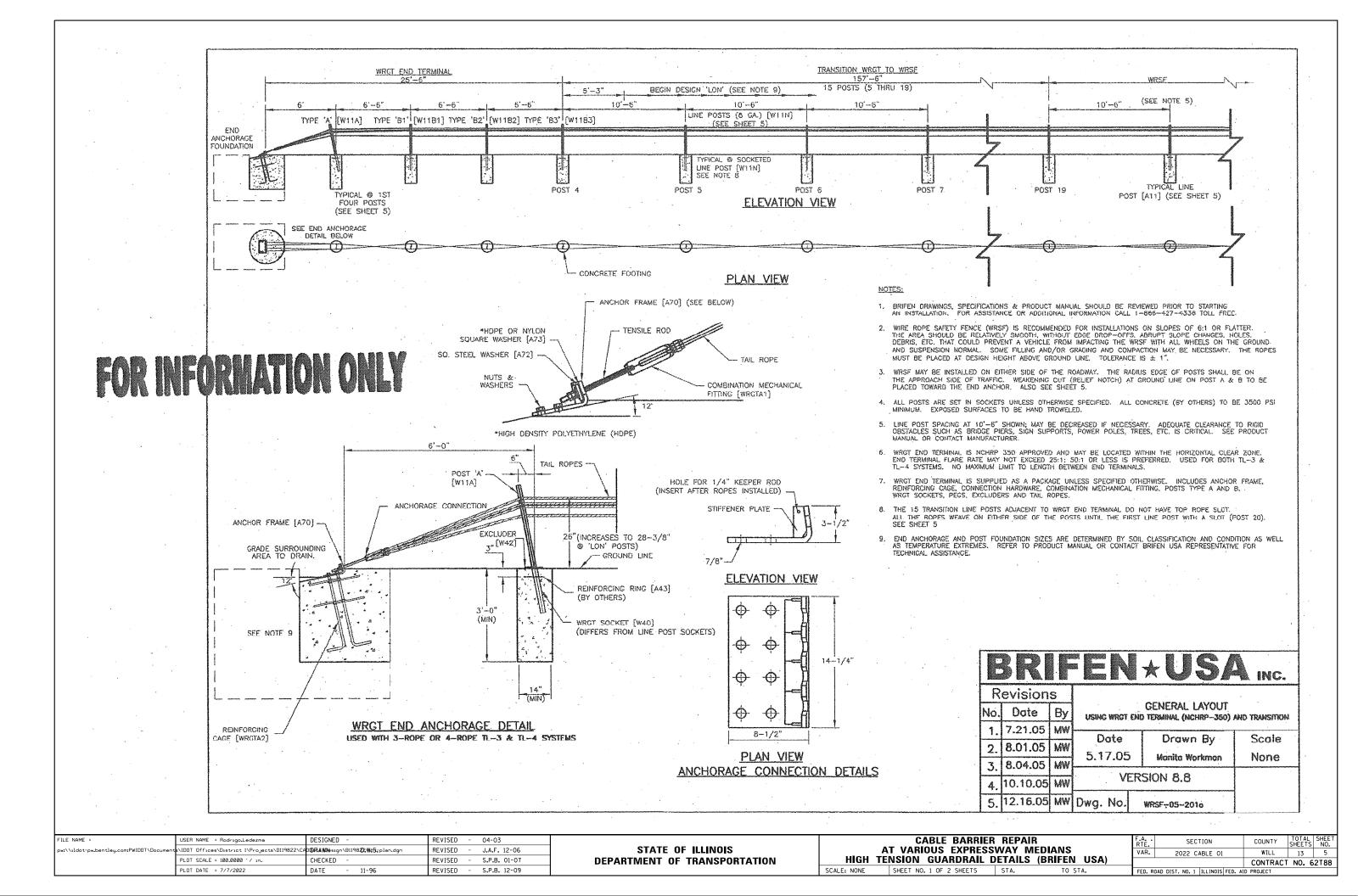
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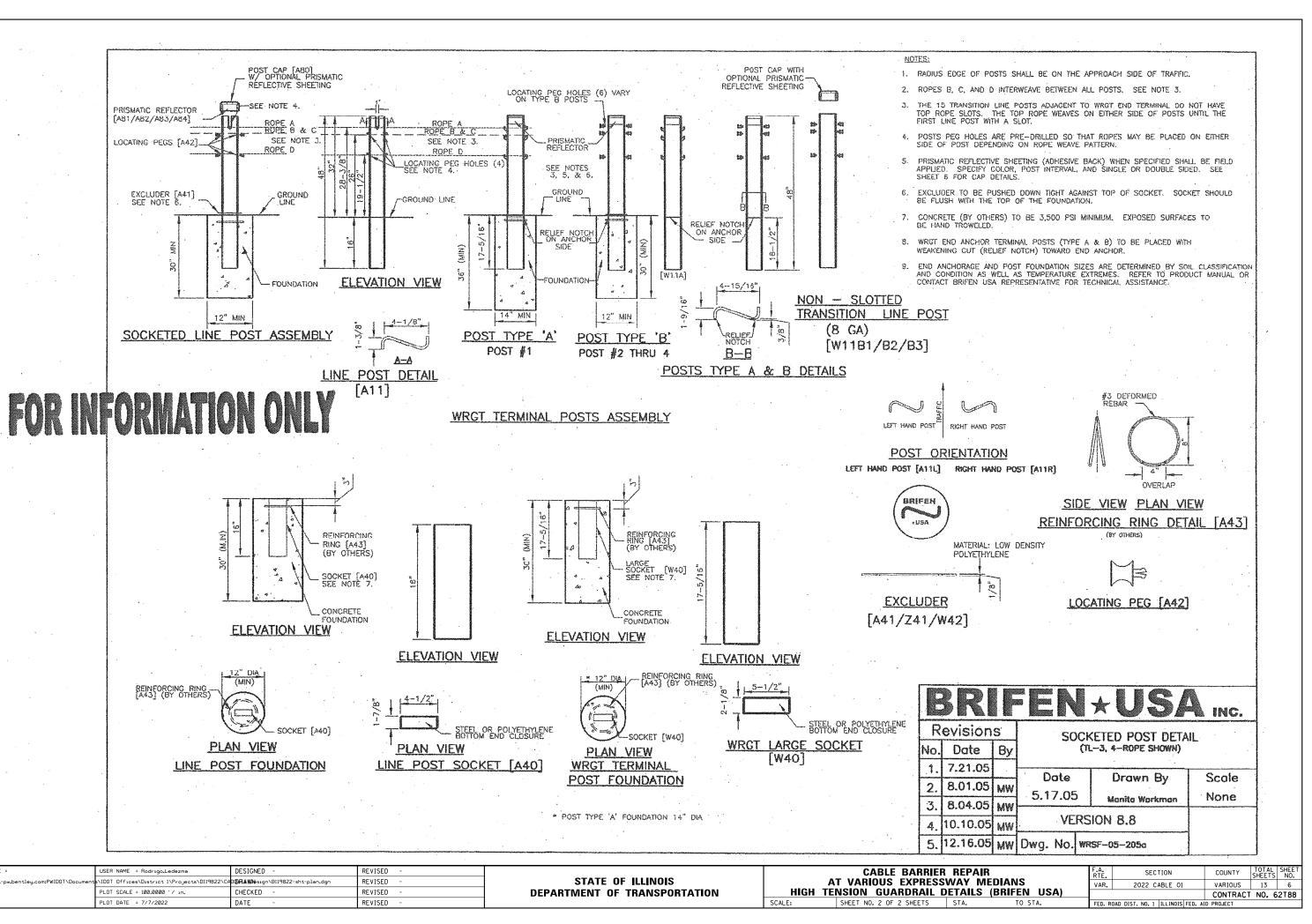
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

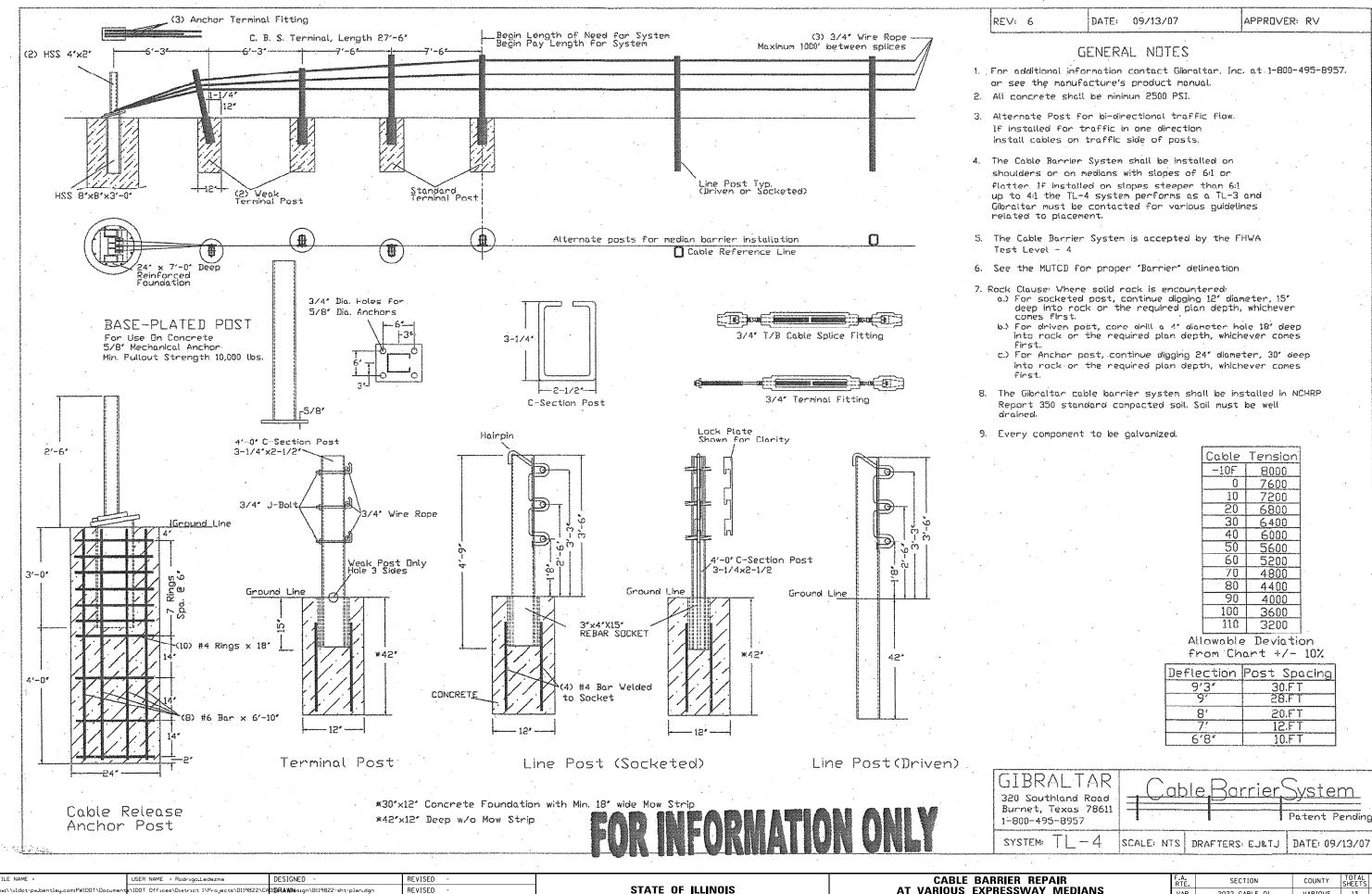
CABLE BARRIER REPAIR AT VARIOUS EXPRESSWAY MEDIANS										SECTION
								[	VAR.	2022 CABLE 01
INDEX OF	SH	<u>iee is, si</u>	<u>AIE</u>	SIAND	<u>AKDS</u>	<u>&amp;</u>	GENEKAL	MOLES		
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	SUMMARY OF QUANTITIES				CO	NSTRUCTI(	ON TYPE C	ODE			CIRALA	ARY OF QUANTITIES				CO	NSTRUCTIO	N TYPE CO	DDE	
CODE NO	ITEM	UNIT	TOTAL OUANTITIES URBAN	100% MCHD MCHD 0021	100% STATE CRMP 0021					CODE NO	ЗОММА	ITEM	UNIT	TOTAL QUANTITIES URBAN	100% MCHD MCHD 0021	100% STATE CRMP 0021				
X0325256	REPAIR HIGH TENSION CABLE (BRIFEN)	FOOT	180	20	160															
	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (BRIFEN)	EACH	8	1	7															
X0325260	REPAIR POSTS (BRIFEN)	EACH	750	44	706															
X0325899	REPAIR HIGH TENSION CABLE (GIBRALTAR)	FOOT	120	20	100															
X0325901	REPAIR POSTS (GIBRALTAR)	EACH	975	58	917															
	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (GIBRALTAR)	EACH	7	1	6															
	REPAIR HIGH TENSION CABLE (TRINITY)	FOOT	90	10	80															
X0326202	REPAIR POSTS (TRINITY)	EACH	75	5	70															
X0326203	REPAIR HIGH TENSION CABLE SYSTEM END	EACH	4	1	3															
	SECTION (TRINITY)																			
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**DEPARTMENT OF TRANSPORTATION** 

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CABLE BARRIER REPAIR AT VARIOUS EXPRESSWAY MEDIANS HIGH TENSION GUARDRAIL DETAILS (GIBRALTAR) SHEET NO. OF SHEETS STA.

SECTION COUNTY VAR. 2022 CABLE 01 VARIOUS 13 7 CONTRACT NO. 62T88

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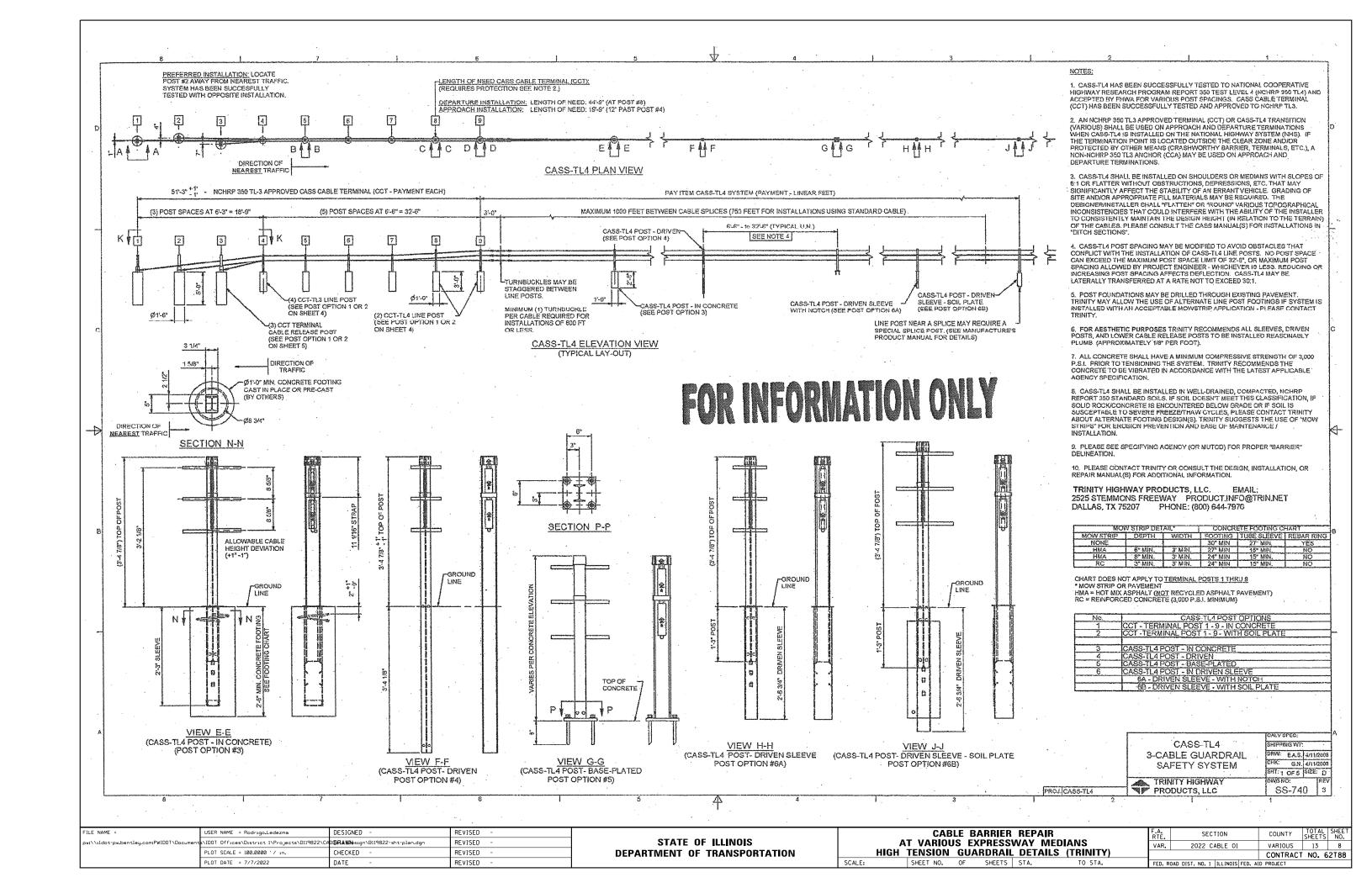
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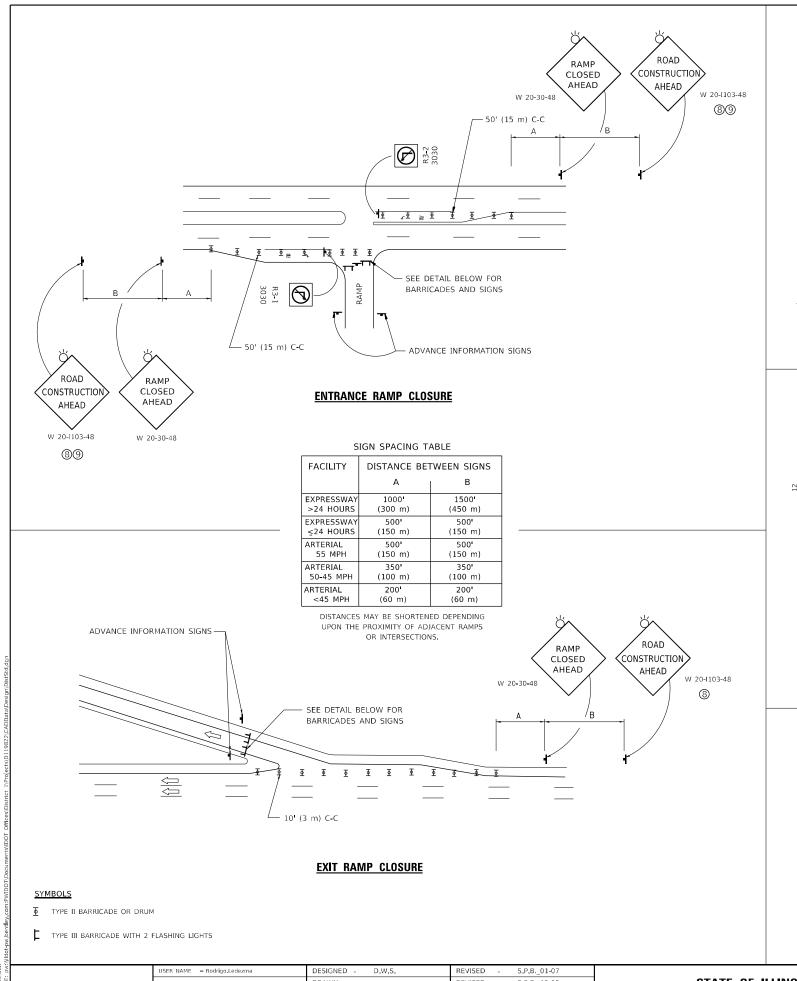
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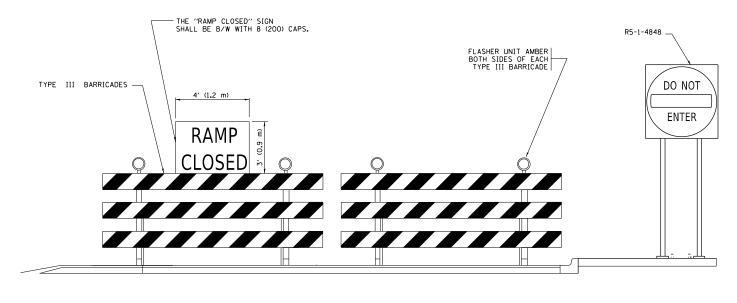
<u> System</u>

Patent Pending

APPROVER: RV







#### **DETAIL FOR REQUIRED BARRICADES & SIGNS**

### RAMP CLOSURE ADVANCE INFORMATION SIGN

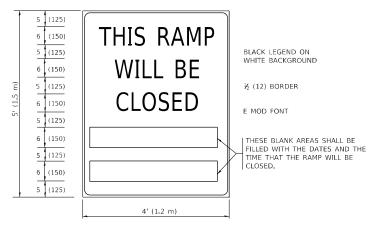
### RAMP CLOSURE ADVANCE WARNING SIGN

RAMP CLOSED 10' (3 m)

BLACK LEGEND ON ORANGE

BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

### GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- (2) VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- 5 THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

SCALE: NONE

- (6) AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

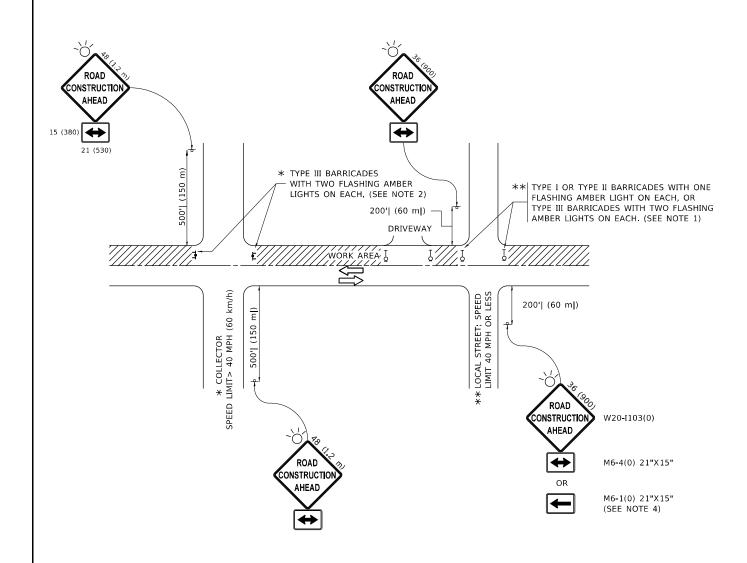
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STATE OF ILLINOIS ARTMENT OF TRANSPORTATION

	ENTRANCE_AND_EXIT_RAMP Closure details							F.A. RTE.	SECTION
								VAR	2022 CABLE
	GEOSONE_DETAILS								TC-08
	SHEET	1	OF	1	SHEETS	STA.	TO STA.		11.116

LE 01 VARIOUS 13 CONTRACT NO. 62T88 OF 1 SHEETS STA.



### NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
  b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
  OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710)
  IN HEIGHT
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
  4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
  BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

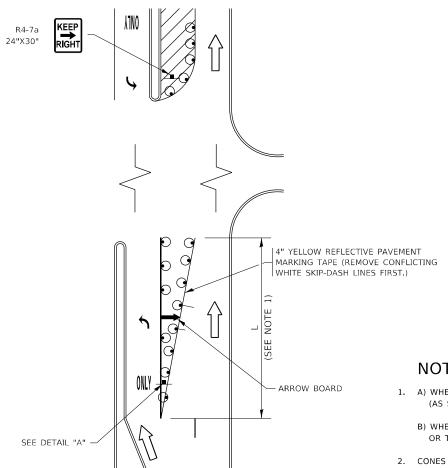
USER NAME = Rodrigo.Ledezma	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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PLOT DATE = 7/7/2022	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ţ	TRAFFIC C SIDE ROADS,				TION FOR DRIVEWAYS
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	TC-10	CONTRACT	NO.	62T8		
VAR	2022 C/	ABLE 01	VARIOUS	13	10	
F.A. RTE	SEC <sup>-</sup>	COUNTY	TOTAL SHEETS	SHEE NO.		

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



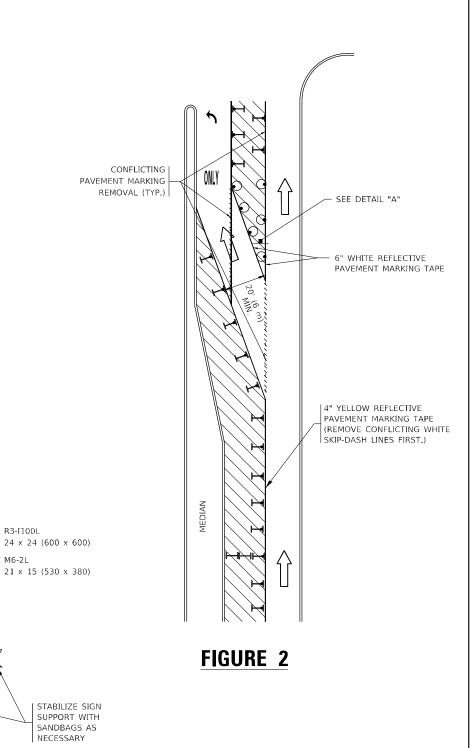
### FIGURE 1

# **LEGEND** WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

- 1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
  - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN, UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREOUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

## **TURN BAY ENTRANCE** WITHIN A LANE CLOSURE



**DETAIL A** 

M6-2L

TURN

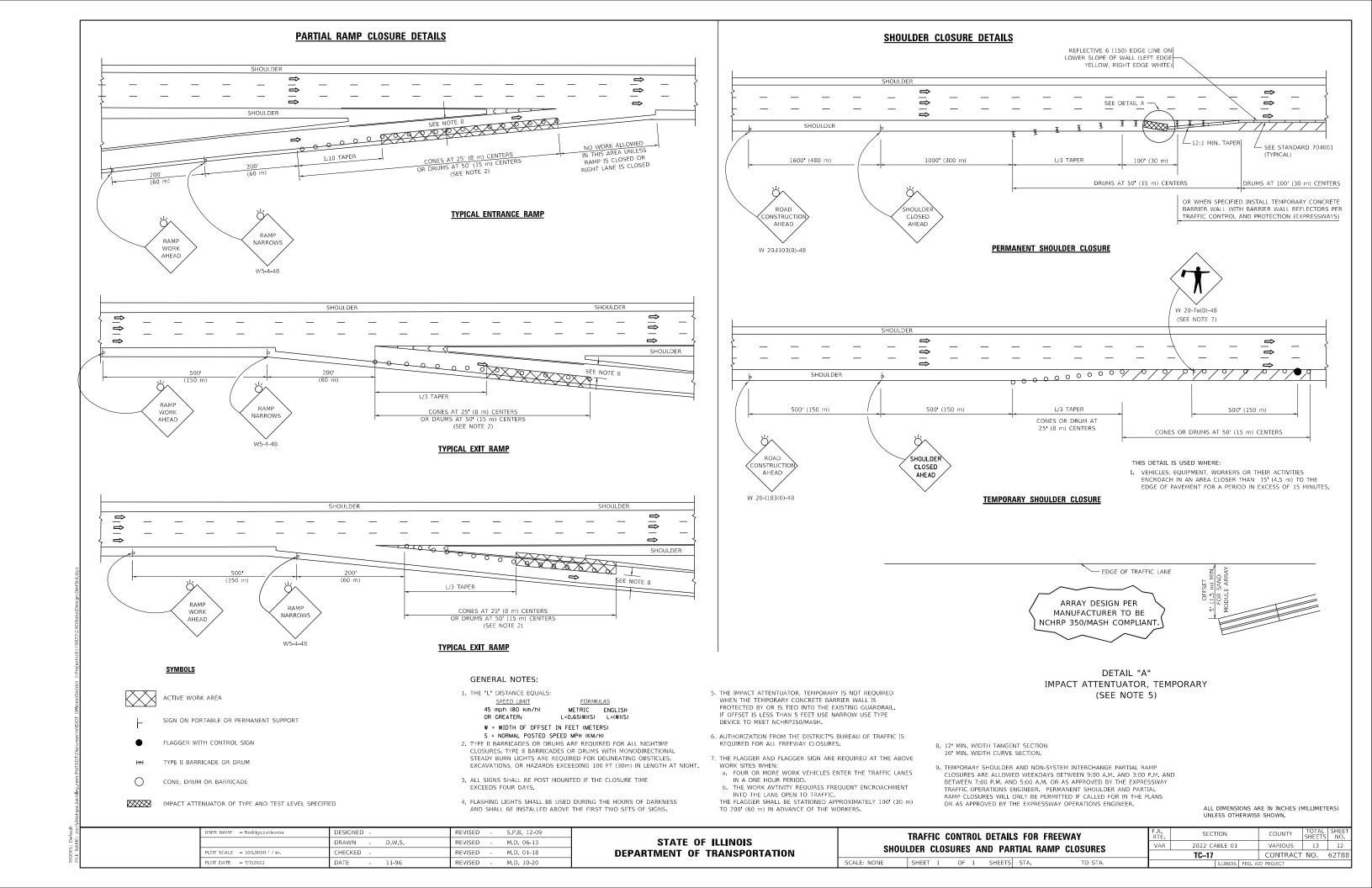
All dimensions are in inches (millimeters) unless otherwise shown.

SER NAME = Rodrigo Ledezma DESIGNED -T. RAMMACHER 09-08-94 R. BORO 09-14-09 A. HOUSEH 11-07-95 REVISED - A. SCHUETZE 07-01-13 A. HOUSEH 10-12-96 REVISED - A. SCHUETZE 09-15-16 PLOT DATE = 7/7/2022 DATE -T. RAMMACHER 01-06-00 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

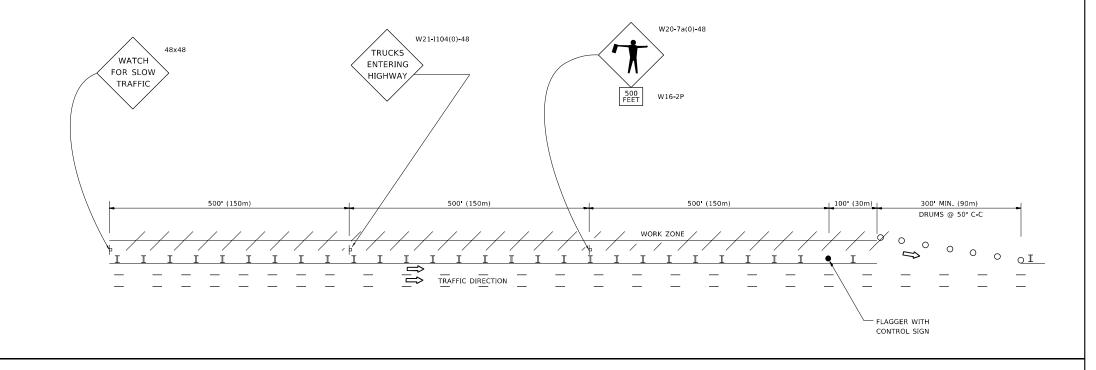
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SCALE: NONE SHEET 1 OF 1 SHEETS STA.

SECTION 2022 CABLE 01 VARIOUS 13 11 TC-14 CONTRACT NO. 62T88

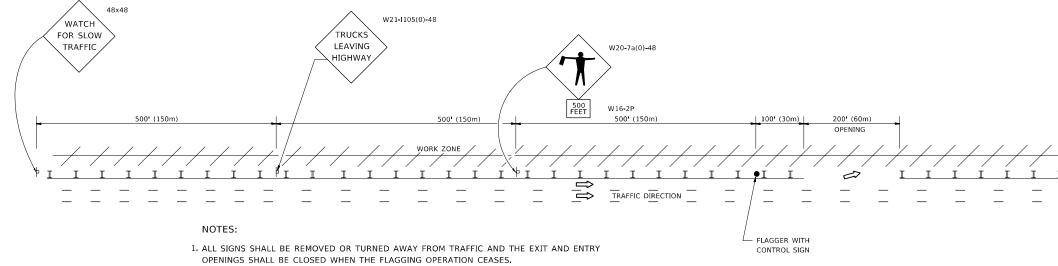


### SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

### WORK ZONE EXIT OPENING



#### WORK ZONE ENTRY OPENING



- NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
- 2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
- 3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
- 4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
- 5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = Rodrigo.Ledezma	DESIGNED -	REVISED	-	J.A.F. 02-06
	DRAWN -	REVISED	-	S.P.B. 01-07
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PLOT DATE = 7/7/2022	DATE -	REVISED	-	M.D.06-13

### STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

FREEWAY	/EXPRES	SWAY SIGI	VING FO	R FLAGGING	OPERATIONS
AT WOR	K ZONE	OPENINGS	ON FRE	EWAYS /EXP	RESSWAYS
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F.A. RTE				COUNTY	TOTAL SHEETS	SHEET NO.
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TC-18			CONTRACT	NO.	62T88	
		ILLINOIS	FED. A	D PROJECT		