

## SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
#	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,443
	TRANSCEIVER - FIBER OPTIC	EACH	5
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	9,090
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9,090
*	ROD AND CLEAN EXISTING CONDUIT	FOOT	1,000
	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	9,090
	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
	DRILL EXISTING HANDHOLE	EACH	4
	INTERCEPT EXISTING CONDUIT	EACH	3
	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	240
	CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	L SUM	1

- \* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER
- # INCLUDES 300 LF CONTINGENCY FOR REPLACEMENT OF DAMAGED CONDUIT TO BE REPLACED AS APPROVED BY ENGINEER

## **ECONOLITE**



USER NAME = \$USER\$	DESIGNED - THG	REVISED -
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PLOT SCALE = \$SCALE\$	CHECKED - TJS	REVISED -
PLOT DATE = \$DATE\$	DATE - 07-09-2024	REVISED -

STATI	: OF	: ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

INTERCONNECT SCHEMATIC				F.A. U. RTE	SEC	TION			
							21-0033	39-00-CH	
SCALE: NONE'	SHEET 1	OF 1	SHEETS	STA.	TO STA.			ILLINOIS	П

## NOTES:

- THIS PROJECT INCLUDES INSTALLATION OF NEW COMBINATION SIGNAL/LIGHTING MAST ARMS AT FOUR INTERSECTIONS, RELOCATION OF ONE LIGHT POLE, AND RELOCATION OF LUMINAIRES ON EXISTING COMBINATION SIGNAL/LIGHTING MAST ARMS TO THE NEW MAST ARMS.
- 2. THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER OF EXISTING LIGHTING FROM THE CITY BEFORE ANY LIGHTING WORK, OR OTHERWISE BEGINS.
- 3. THE QUANTITIES OF RACEWAY WHERE INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY, THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- 4. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK /STAKE ALL UNDERGROUND UTILITIES.
- 5. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AMMO CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AMMO COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING CONSTRUCTION WORK.
- 6. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
- 8. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED,
- 9. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- 10. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING LIGHT POLE FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. WHEN CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL REQUEST TO RELOCATE THE FOUNDATION. THE NEW LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

## **BILL OF MATERIALS**

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	90
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	40
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	300
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1420
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	2840
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1449
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	1128
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	1770
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	7
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	1
REMOVAL OF POLE FOUNDATION	EACH	1
RELOCATE EXISTING LIGHTING UNIT	EACH	1
INTERCEPT EXISTING CONDUIT	EACH	3
EXPOSE AND RELOCATE EXISTING UNIT DUCT	FOOT	60
RELOCATE EXISTING LUMINAIRE	EACH	7
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	7
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	10

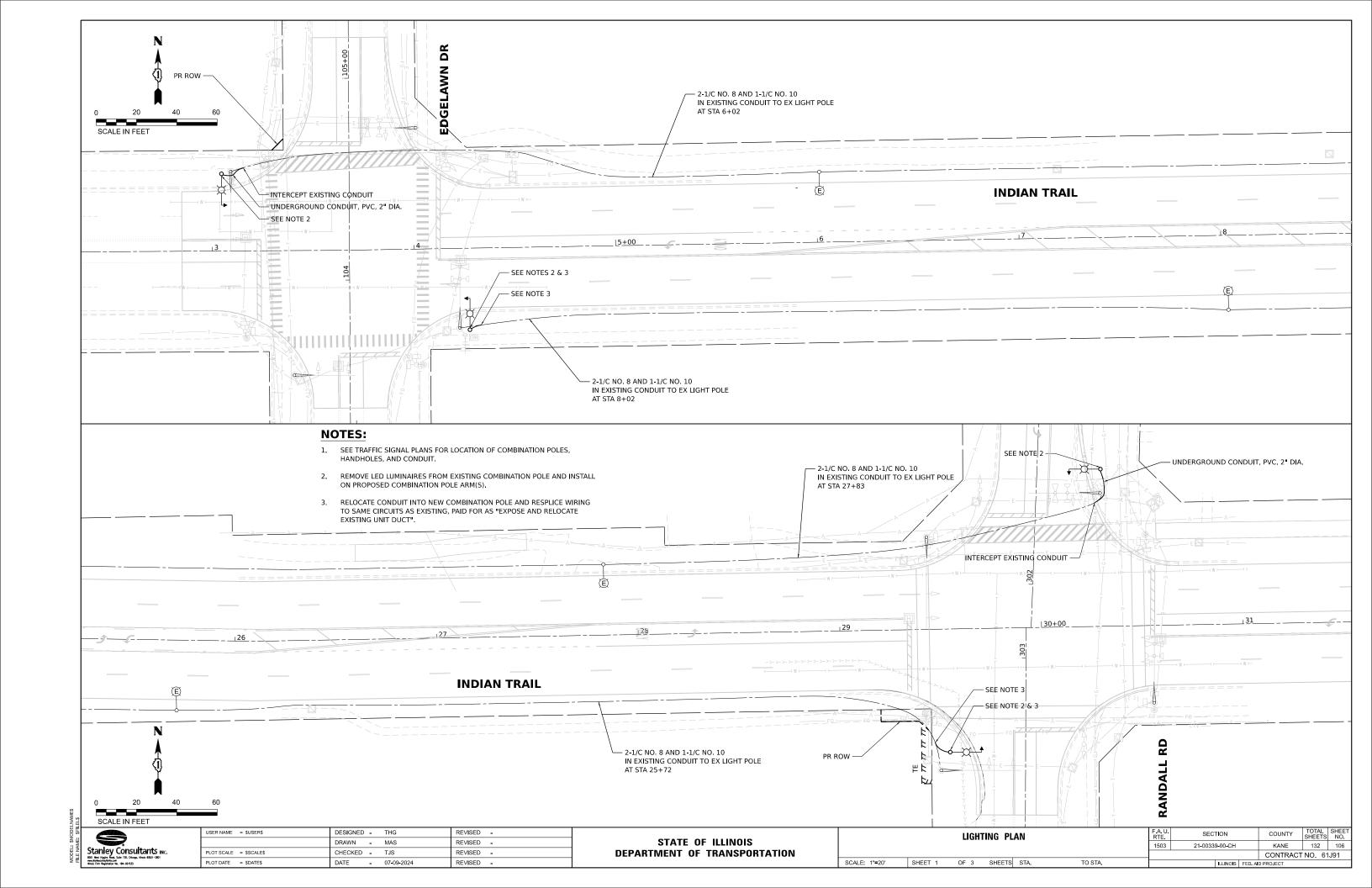
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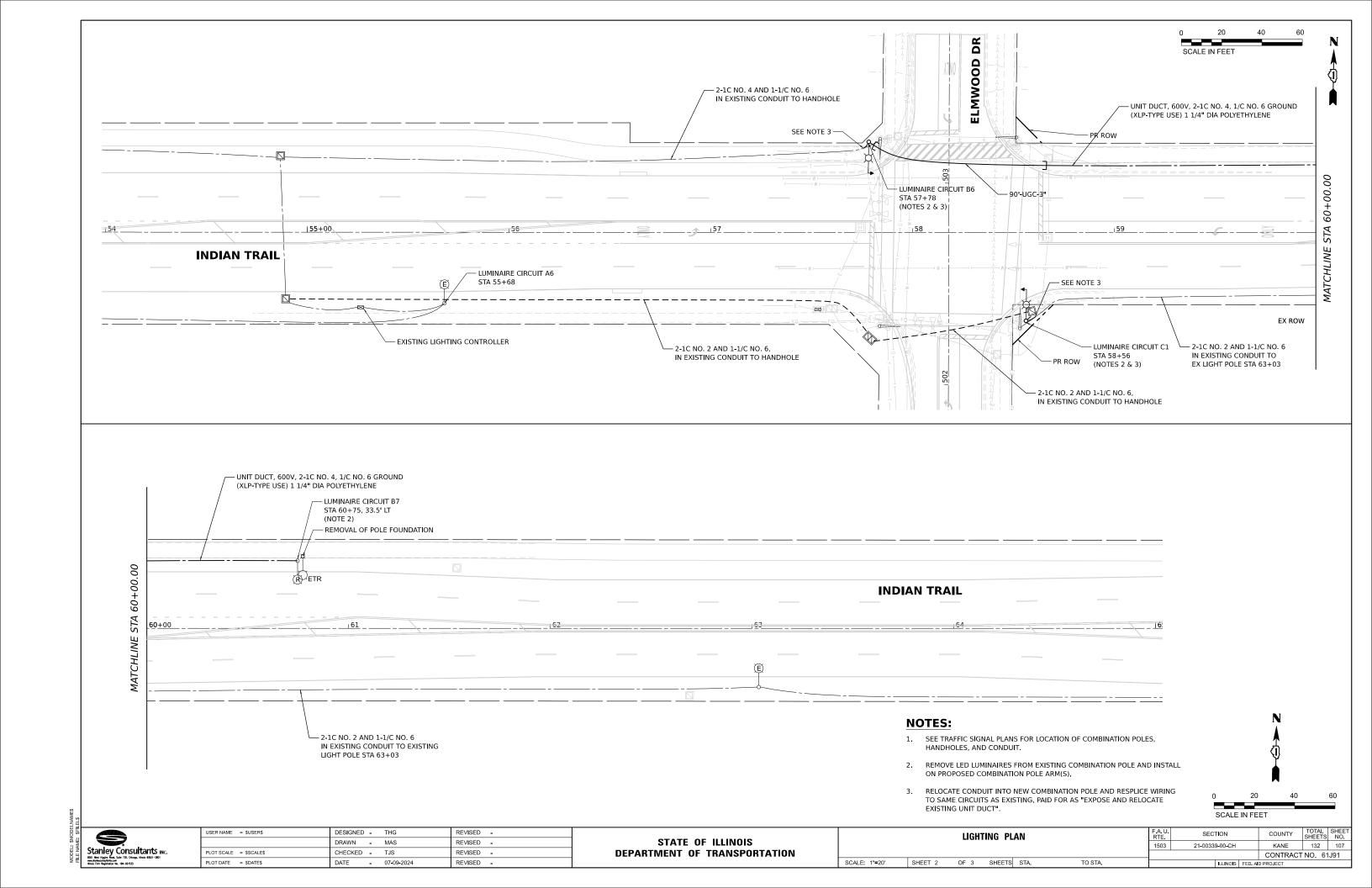
○—(E)	EXISTING LIGHTING UNIT TO BE MAINTAINED
o——ETR	EXISTING LIGHTING UNIT TO BE RELOCATED
	UNIT DUCT, 600V, 3-1/C (NO. 2, 4, OR 8), 1/C (NO. 6 OR 10) GROUND [XLP-TYPE USE] 1 1/4" DIA. POLYETHYLENE (SEE PLANS)
	EXISTING LIGHTING CONTROLLER
€3	RIGID GALVANIZED STEEL CONDUIT, 3" DIA.
	ELECTRIC CABLE IN CONDUIT, SEE PLANS FOR CABLE TYPE
○—(R)	RELOCATED LIGHTING UNIT, 40 FT. MH, 8 FT MAST ARM, LED LUMINAIRE, WITH BREAKAWAY DEVICE
°—□¬	COMBINATION SIGNAL/LIGHT POLE, 45 FT MH, 8 FT MAST ARM, RELOCATED LED LUMINAIRE

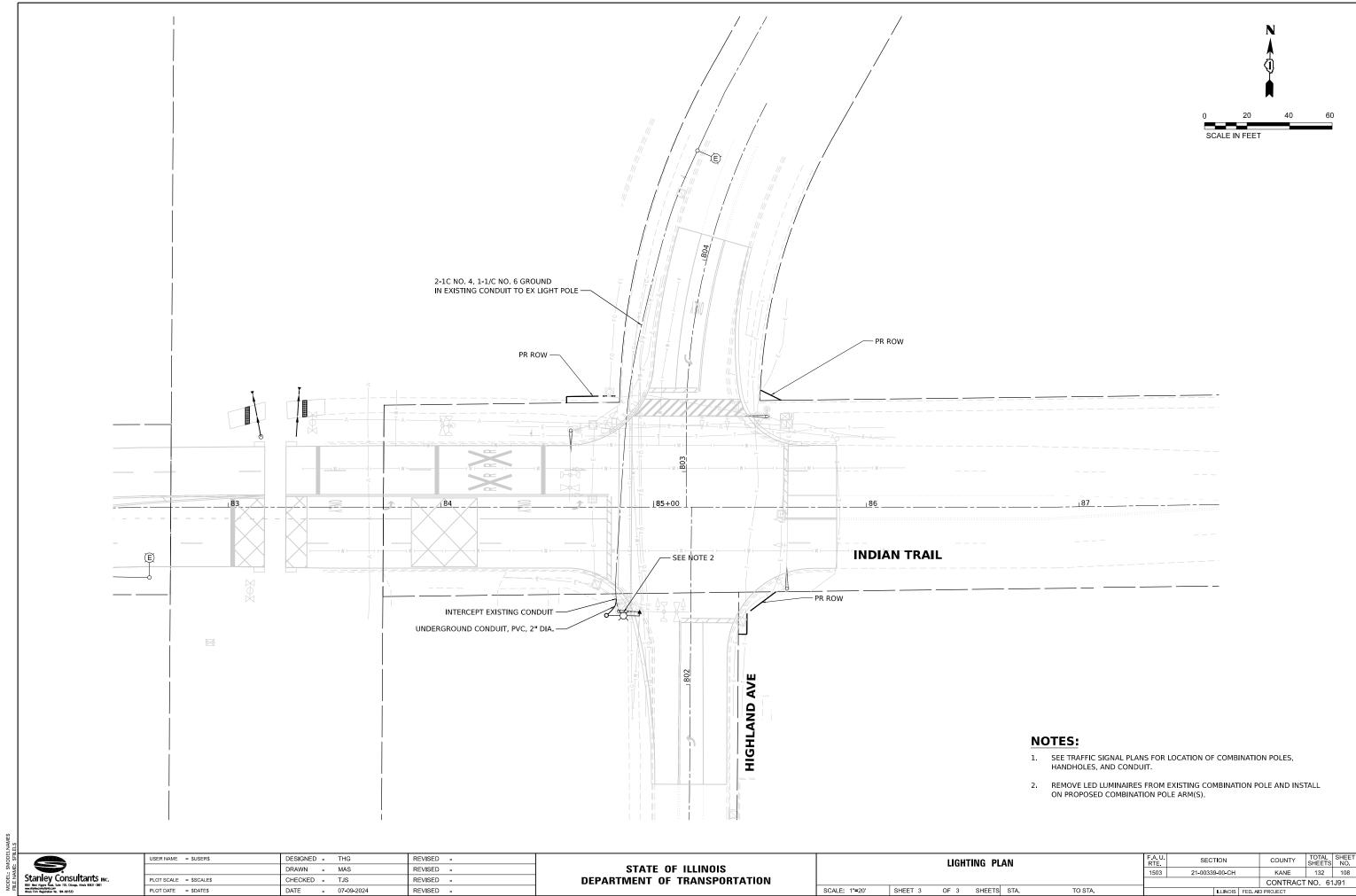
GROUND ROD 5/8" X 10 FT

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LIGHTING GENERAL NOTES, BILL OF MATERIALS, AND LEGEND	F.A. U RTE	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	1503	21-0033	9-00-CH		KANE	132	105
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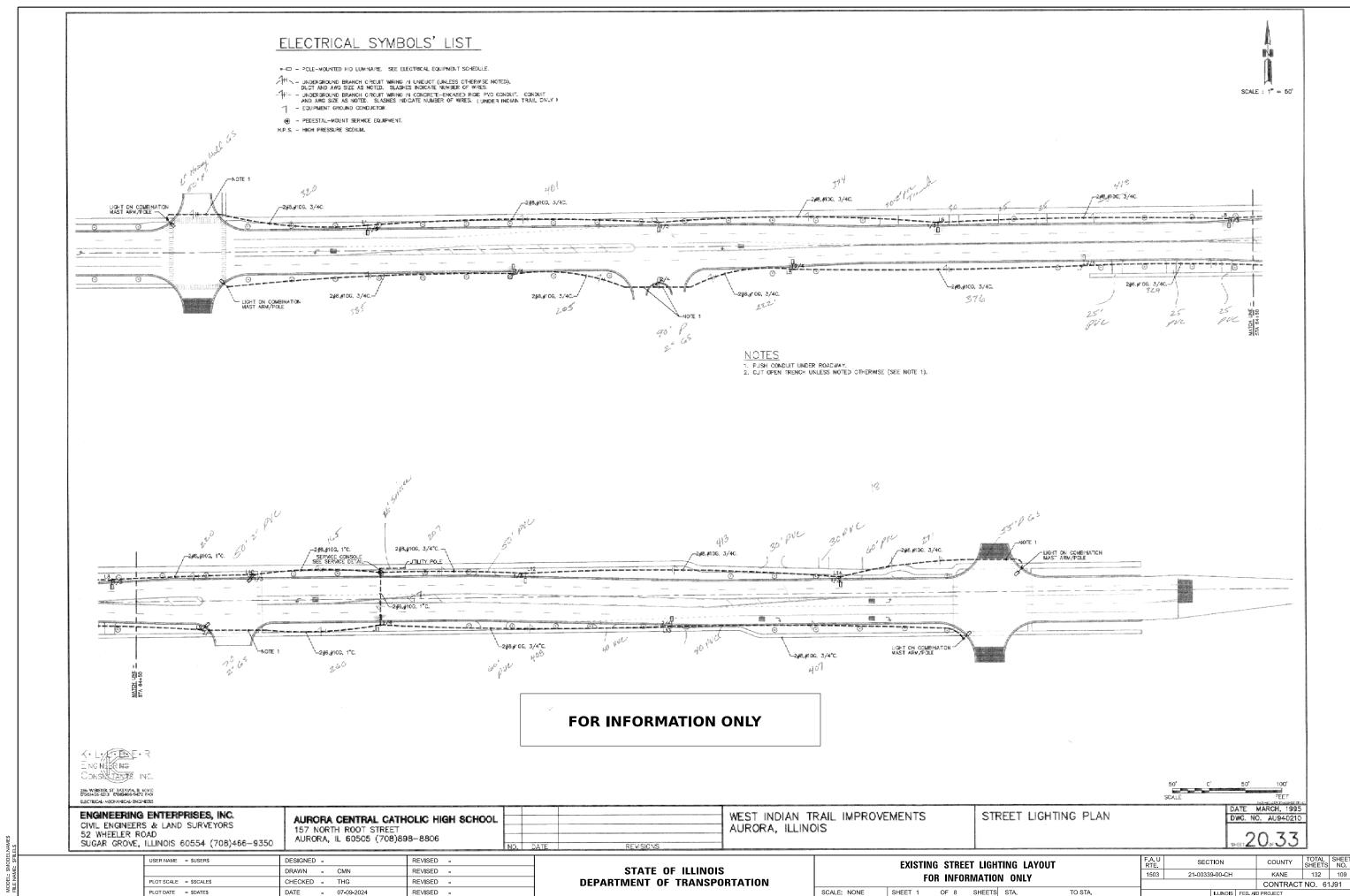


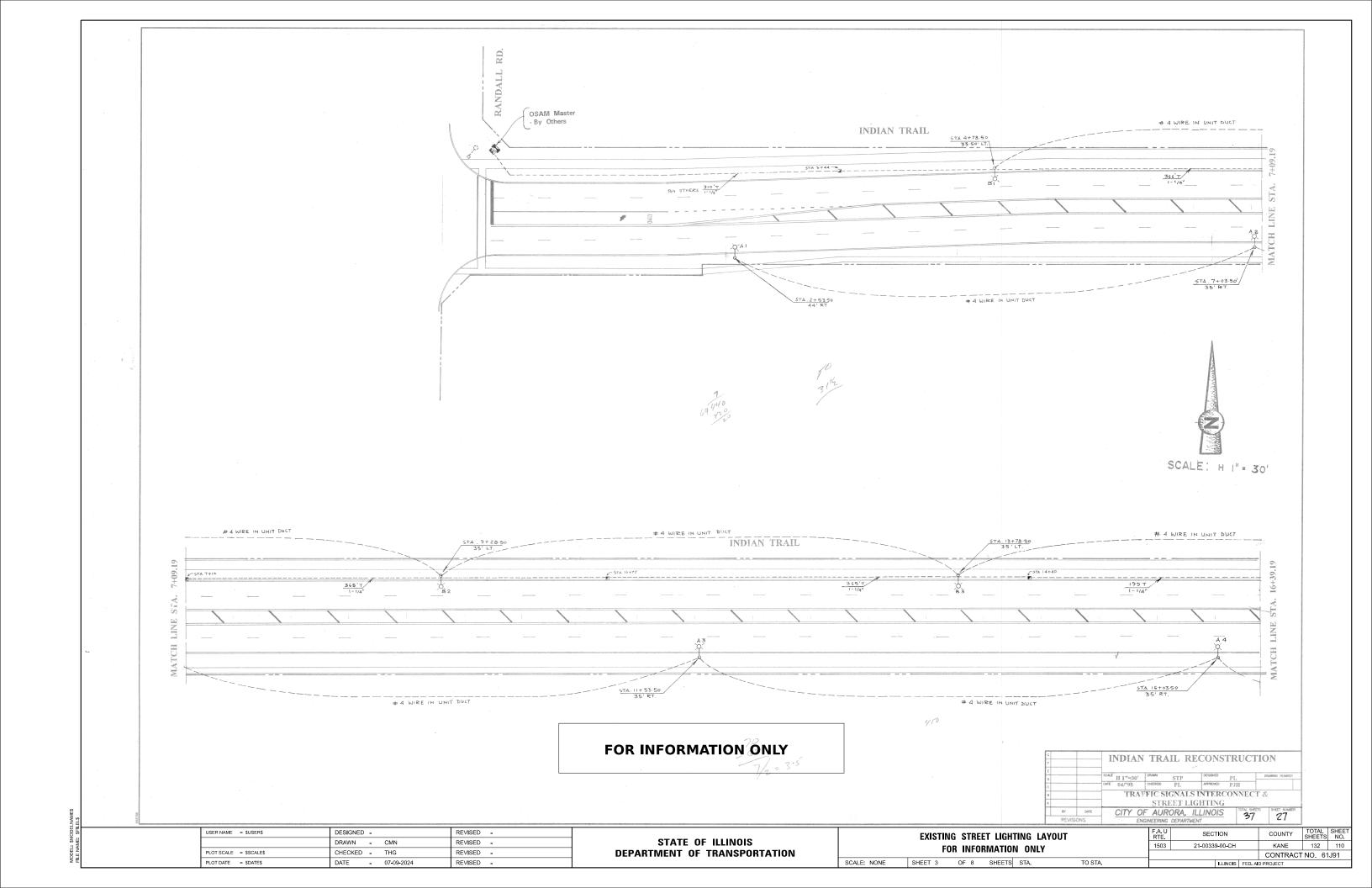


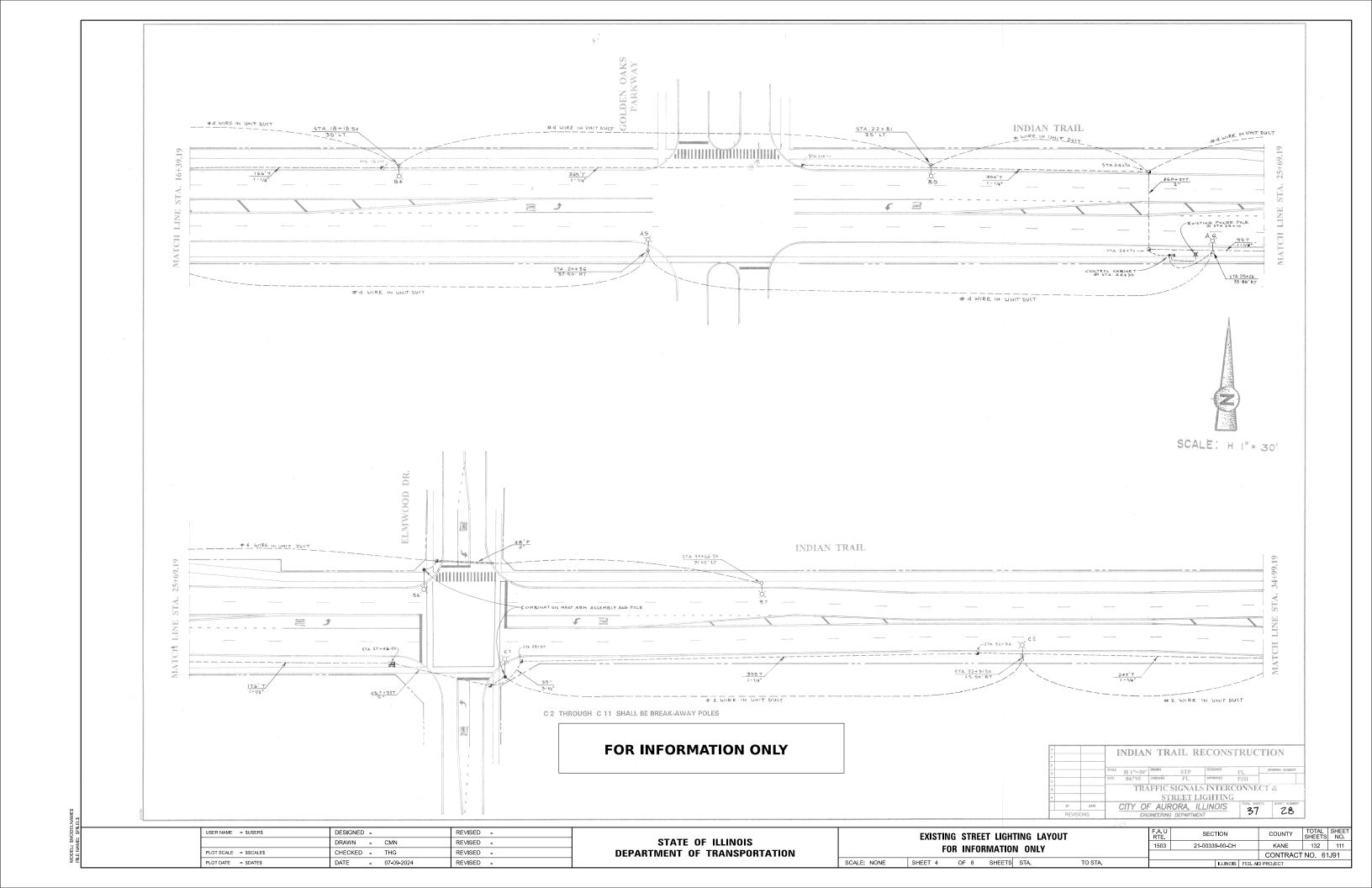


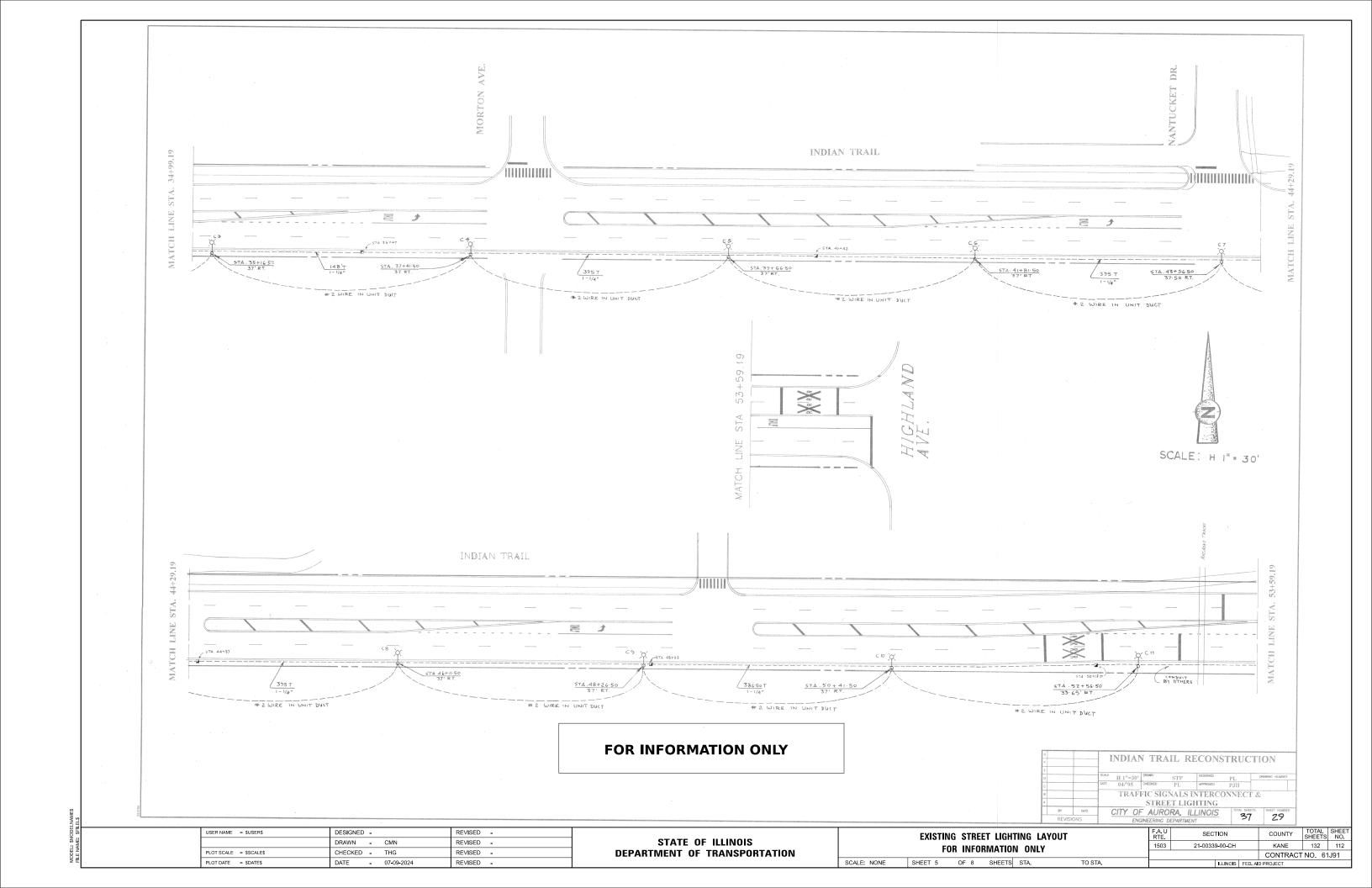
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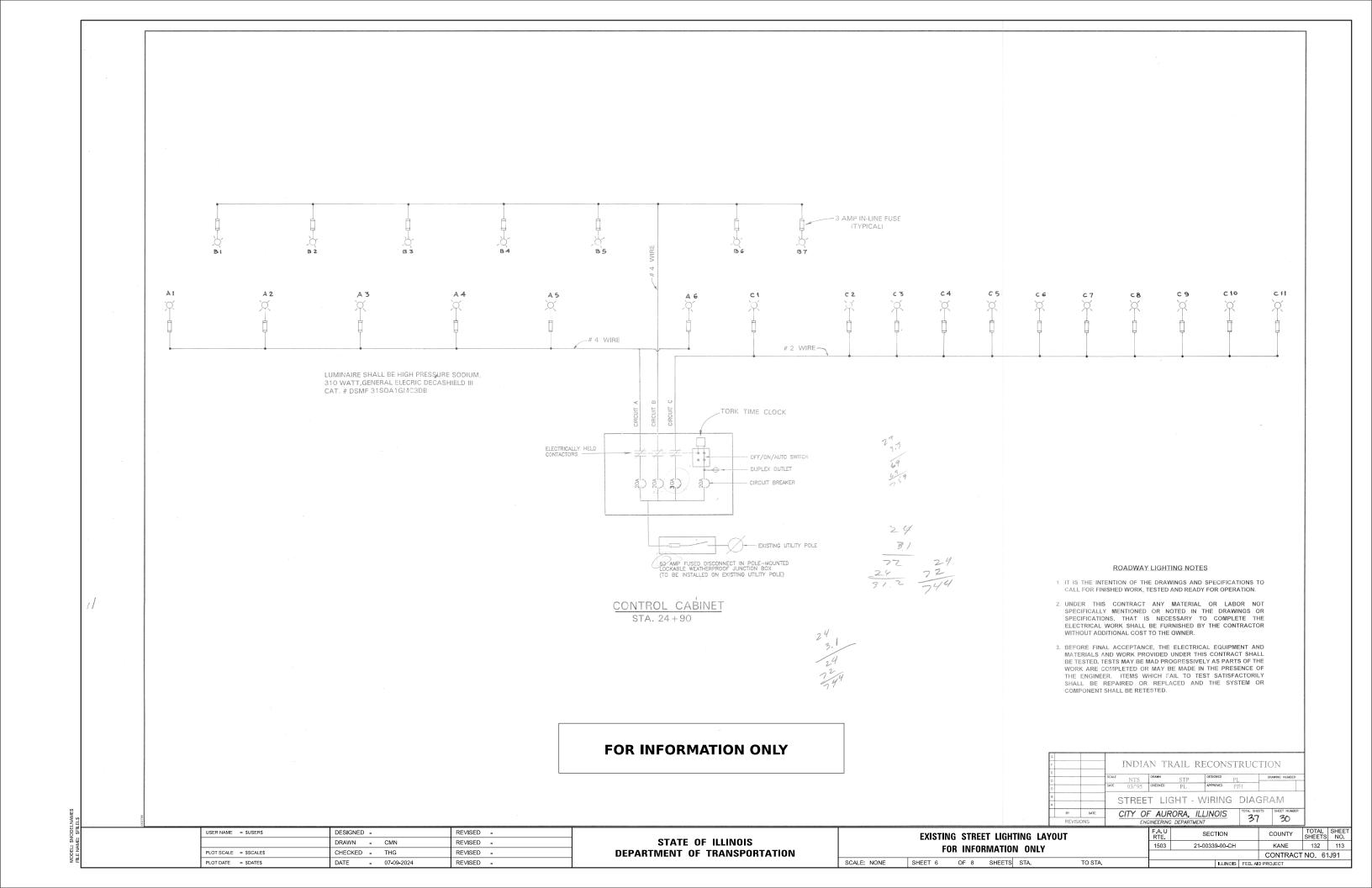
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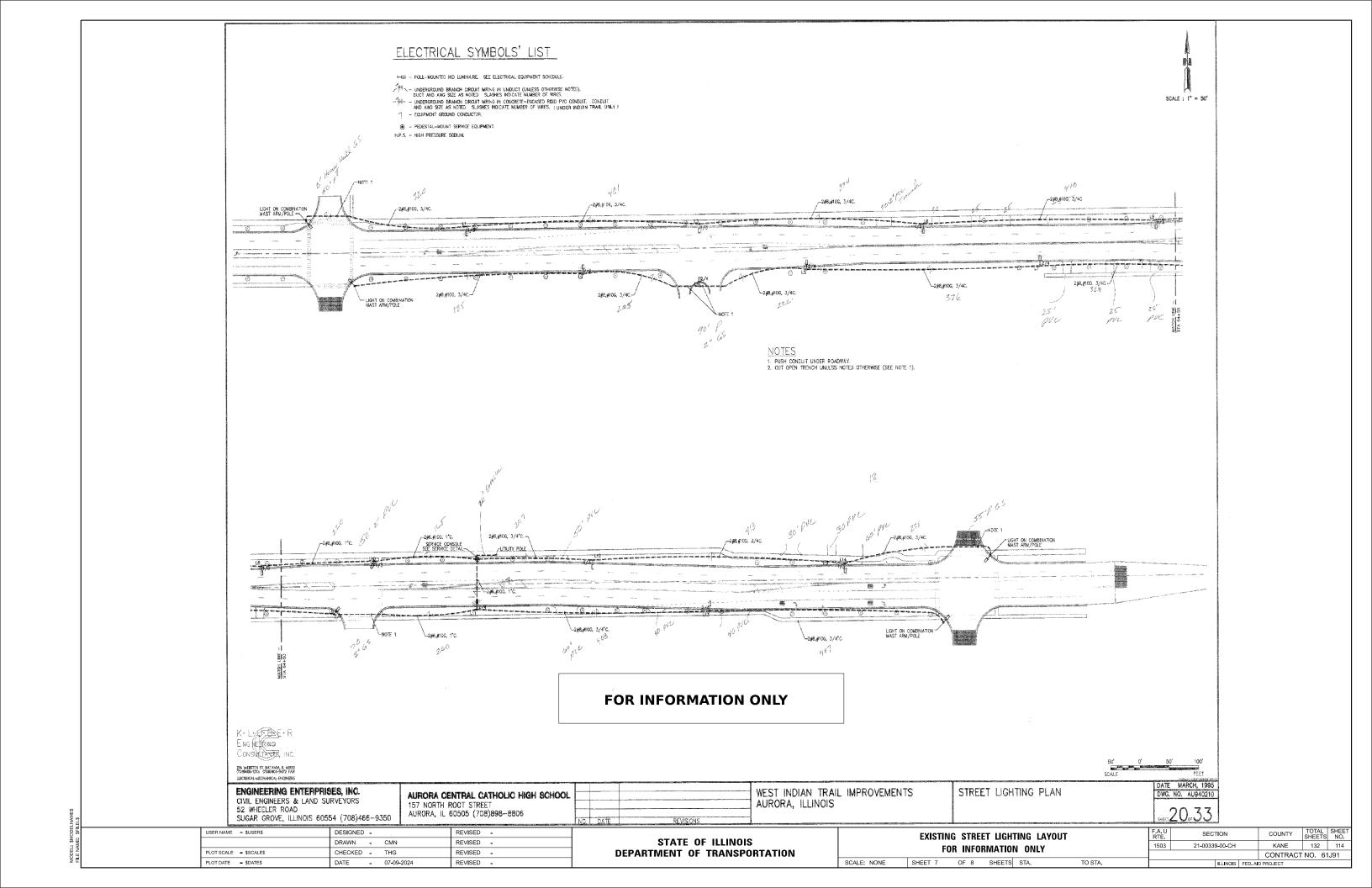


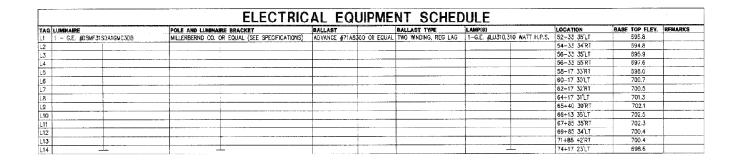


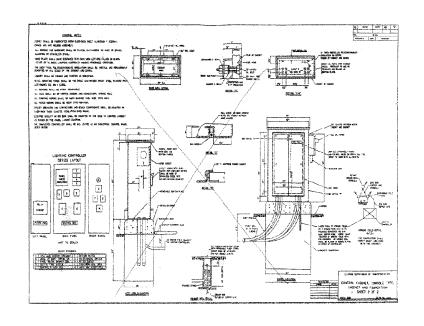


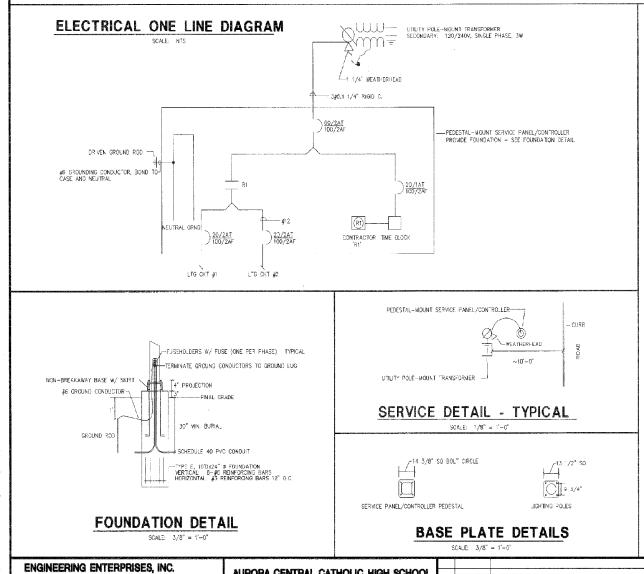


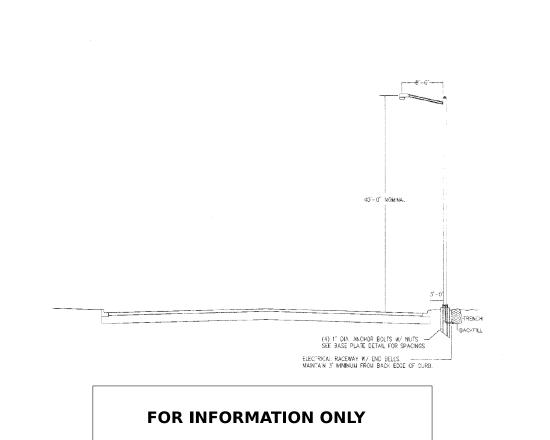












CIVIL ENGINEERS & LAND SURVEYORS

SUGAR GROVE, ILLINOIS 60554 (708)466-9350

52 WHEELER ROAD

AURORA CENTRAL CATHOLIC HIGH SCHOOL 157 NORTH ROOT STREET AURORA, IL 60505 (708)898-8806

WEST INDIAN TRAIL IMPROVEMENTS AURORA, ILLINOIS

SCALE: NONE

STREET LIGHTING DETAILS

WEST INDIAN TRAIL ROAD POLE SECTION

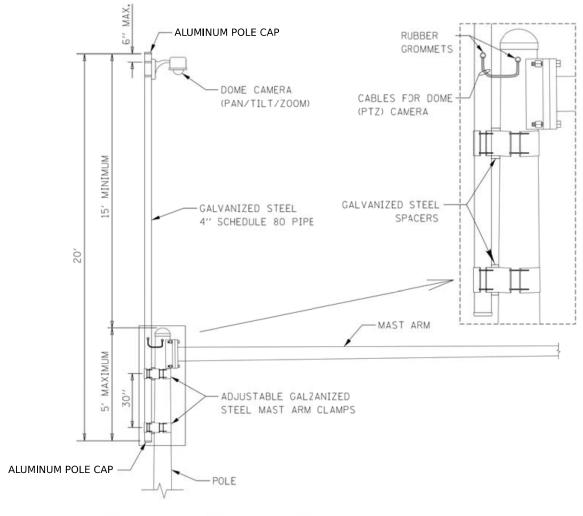
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**EXISTING STREET LIGHTING LAYOUT** FOR INFORMATION ONLY SHEET 8 OF 8 SHEETS STA. TO STA.

SECTION COUNTY 1503 21-00339-00-CH KANE 132 115 CONTRACT NO. 61J91



## CAMERA MOUNTING ASSEMBLY DETAIL (NOT TO SCALE)

NOTES:

- THE MAST ARM IS TAPERED.

- INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY, ADDITIONAL SPACERS REQUIFED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING
- ASSEMBLY OF THE TYPE SPECIFIED.
   SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS

CENTER POINT OF INTERSECTION

EDGE OF PAV'T .-

PTZ CAMERA ARM SHALL BE ALIGNED AT AN ANGLE OF 45° TOWARD THE CENTER POINT OF THE INTERSECTION

45° SIGNAL MAST ARMS

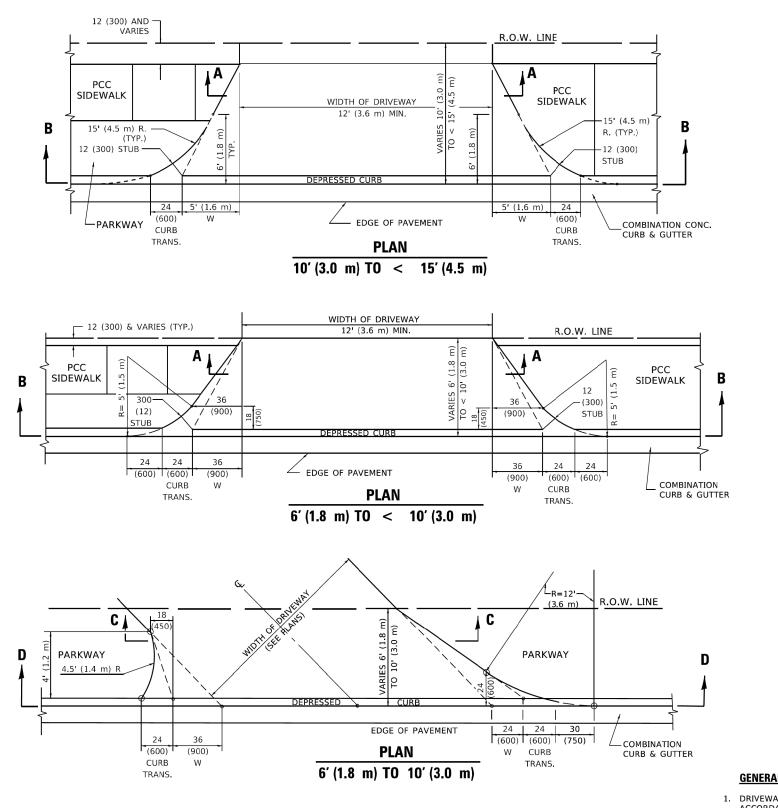
PTZ CAMERA MOUNTING DETAILS (SECONDARY LOCATION)

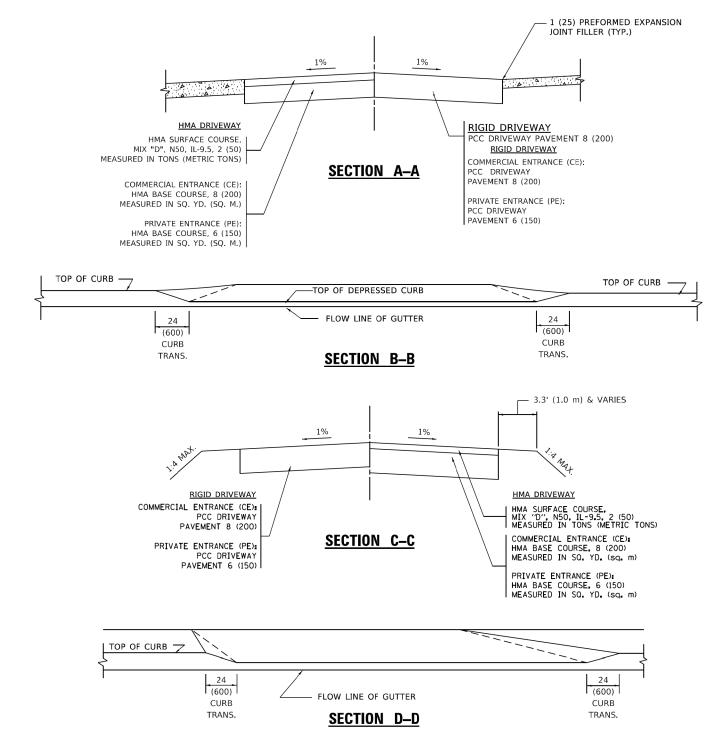
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION 
 CAMERA
 MOUNTING
 DETAIL
 F.A.U. RTE.
 SECTION
 COUNTY
 TOTAL SHEET NO.
 SHEET NO.

 1503
 21-00339-00-CH
 KANE
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 CONTRACT NO.
 61 JOHN FED. AUD PROJECT





## **GENERAL NOTES**

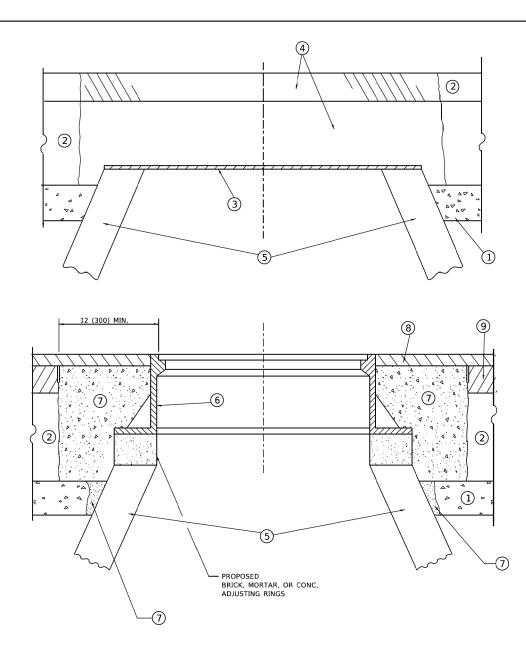
- 1. DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.
- WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.
- 3. "W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.



USER NAME = \$USER\$	DESIGNED - F	R. SHAH	REVISED	-	R. BORO 01-01-07
	DRAWN -		REVISED	-	R. BORO 09-06-11
PLOT SCALE = \$SCALE\$	CHECKED -		REVISED	-	K. SMITH 08-27-19
PLOT DATE = \$DATE\$	DATE - 1	11-06-95	REVISED	_	K. SMITH 11-18-22

DISTRICT ONE DETAILS					F.A. U. RTE	F.A. U. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
	BD-02					1503	21-00339-00-CH			KANE	132	117
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## DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

### **NOTES**

- 1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

## Stanley Consultants Inc. 601 the High Ros, Ser 70, Colony, Broke 6041-3071 was Principles The - 60233

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 K. SMITH 11-18-22

 PLOT DATE
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 10-25-94
 REVISED
 K. SMITH 09-15-23

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## CONSTRUCTION PROCEDURES

## STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

### STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- \*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

## \_\_\_\_

- 1 SUB-BASE GRANULAR 6 MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- (2) EXISTING PAVEMENT
- 7 CLASS PP-2\* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- 4 PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (5) EXISTING STRUCTURE
- (9) PROPOSED HMA BINDER COURSE

## LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

### BASIS OF PAYMENT

- 1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

## ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

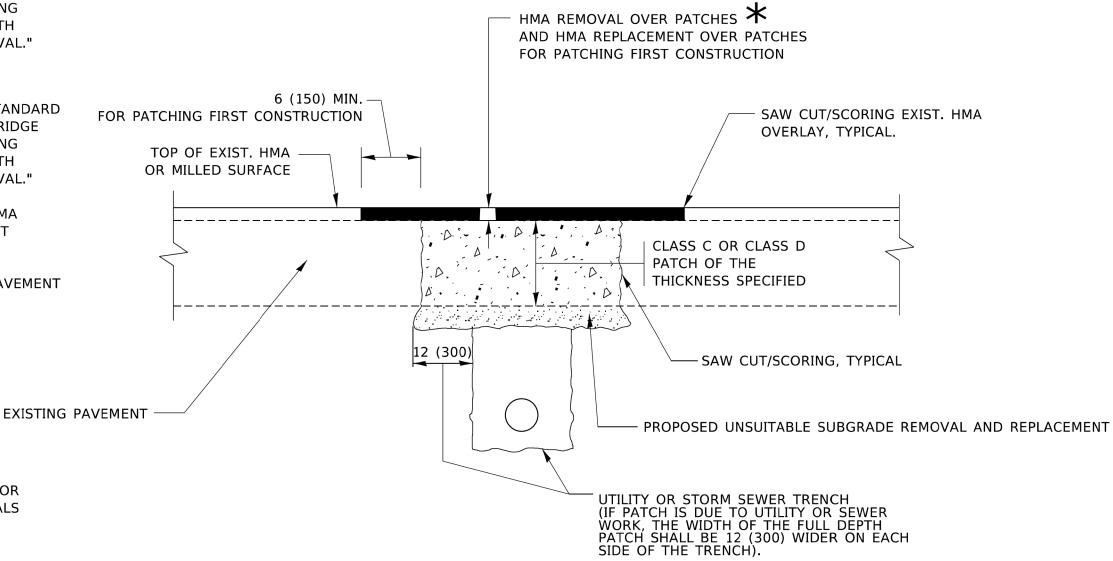
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DD-00				CONTRACT	NO. 61	J91
SCALE: NONE   SHEET 2 OF 16 SHEETS STA. TO STA.		111	INOIS FED AL	D PROJECT		

## **METHOD OF MEASUREMENT**

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

## **BASIS OF PAYMENT**

- 1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
- SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
- 3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



SCALE:

## **SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEE TYPICAL SECTIONS FOR

THICKNESS AND MATERIALS

- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

## **SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

- 1. MILL HMA FIRST IF THERE IS AT LEAST  $4\frac{1}{2}$  INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

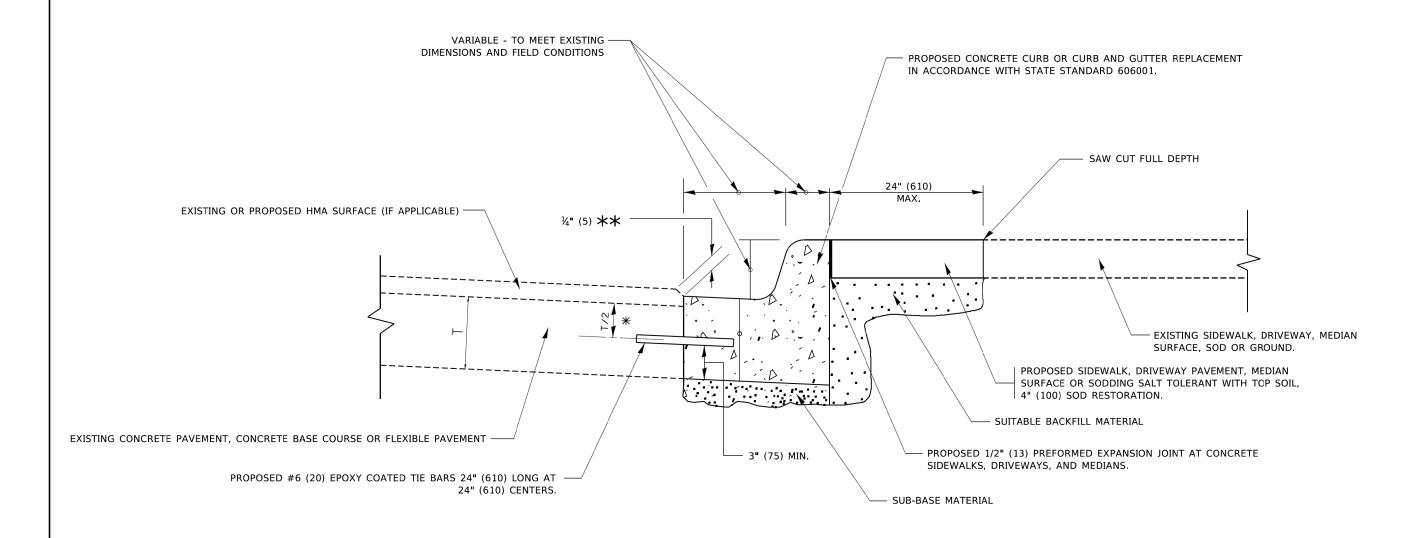
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		DRAWN -	REVISED -	R. BORO 09-04-07
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	K. ENG 10-27-08
	PLOT DATE = \$DATE\$	DATE - 10-25-94	REVISED -	K. SMITH 11-18-22
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DISTRICT ONE DETAILS						F.A.U. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
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NONE	SHEET 3	OF 16	SHEETS	STA.	TO STA.	ILLINOIS FED. AIC			D PROJECT			



- $\divideontimes$  3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

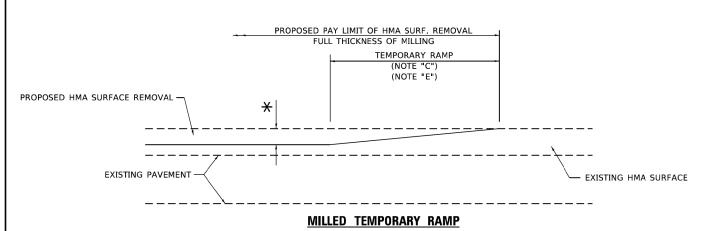
## **CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



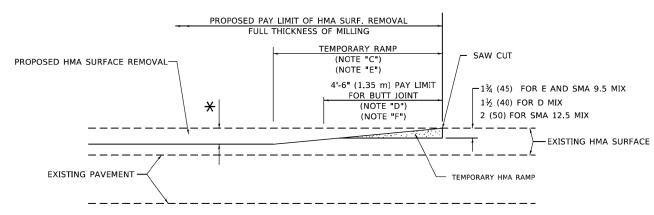
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PLOT SCALE = \$SCALE\$	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = \$DATE\$	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

## OPTION 1

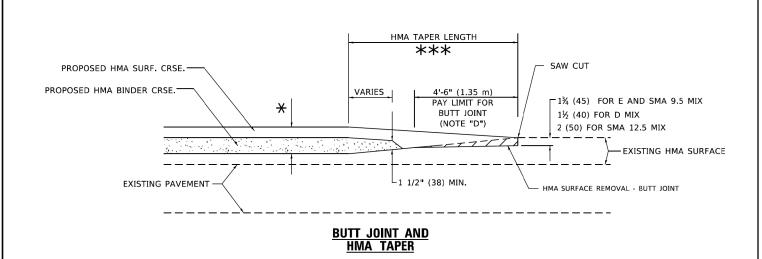


### HMA CONSTRUCTED TEMPORARY RAMP

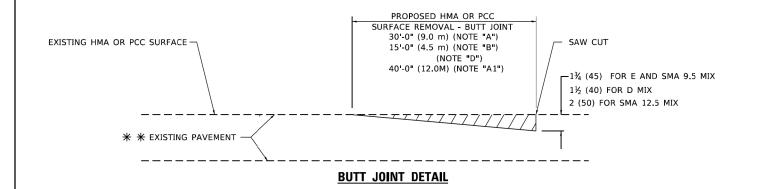
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

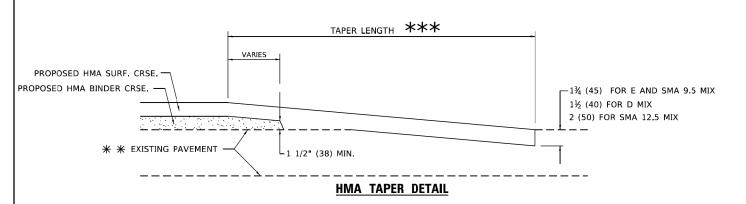
## OPTION 2

## TYPICAL TEMPORARY RAMP



## TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





## TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

## **GENERAL NOTES**

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
  10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

### **BASIS OF PAYMENT**

- THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT

SCALE: NONE

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

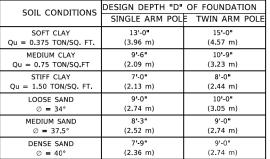


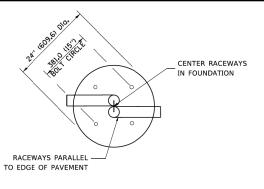
USER NAME = \$USER\$	DESIGNED - M. DE YONG	REVISED -	A. ABBAS 03-21-97
	DRAWN -	REVISED -	M. GOMEZ 04-06-01
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	R. BORO 01-01-07
PLOT DATE = \$DATE\$	DATE - 06-13-90	REVISED -	K. SMITH 11-18-22

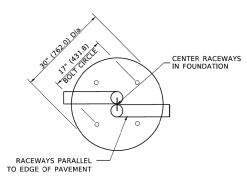
STATE	: OI	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

DISTRICT ONE DETAILS  BD-32  SHEET 5 OF 16 SHEETS STA. TO STA.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		21-00339-00-CH	KANE	132	121
			CONTRAC	T NO. 61	IJ91
SHEET 5 OF 16 SHEETS STA TO STA		ILLINOIS FED AL	D PROJECT		

## LIGHT POLE FOUNDATION DEPTH TABLE 40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT





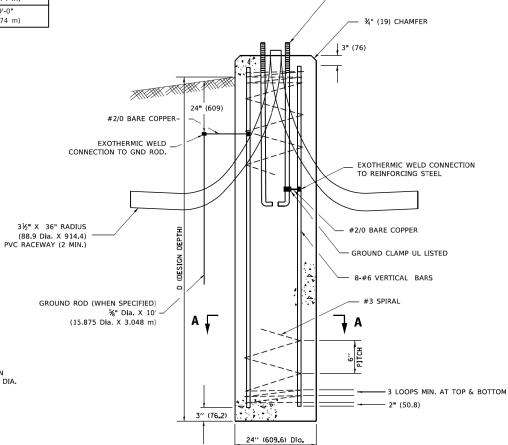


### **TOP VIEW TOP VIEW**

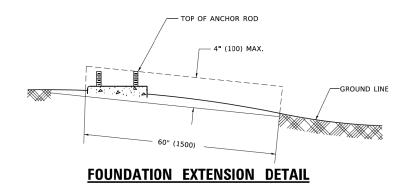
ANCHOR ROD

4-1" Dia. X 5'-0"

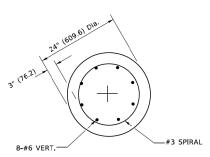
(4-25.4 Dia. X 1.524 m)

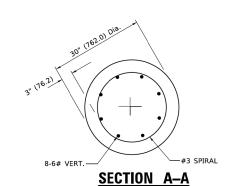


## **FOUNDATION DETAIL**



- RADIUS NOT LESS THAN





SCALE: NONE

## SECTION A-A

**NOTES** 

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4 THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL, A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3#4-IN. (20 mm).
- 6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE, COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 23#4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14 THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

Stanley Consultants INC 8501 Red Hegite Road, Sulle 730, Okoopa, Minois 60631-2801 West Frem Registration No. 184-001533

6" (152.4)

THREADED

%" T. X 4" Dia. (15.87 T. X 101.6 Dia.)

WASHER, TACK WELDED

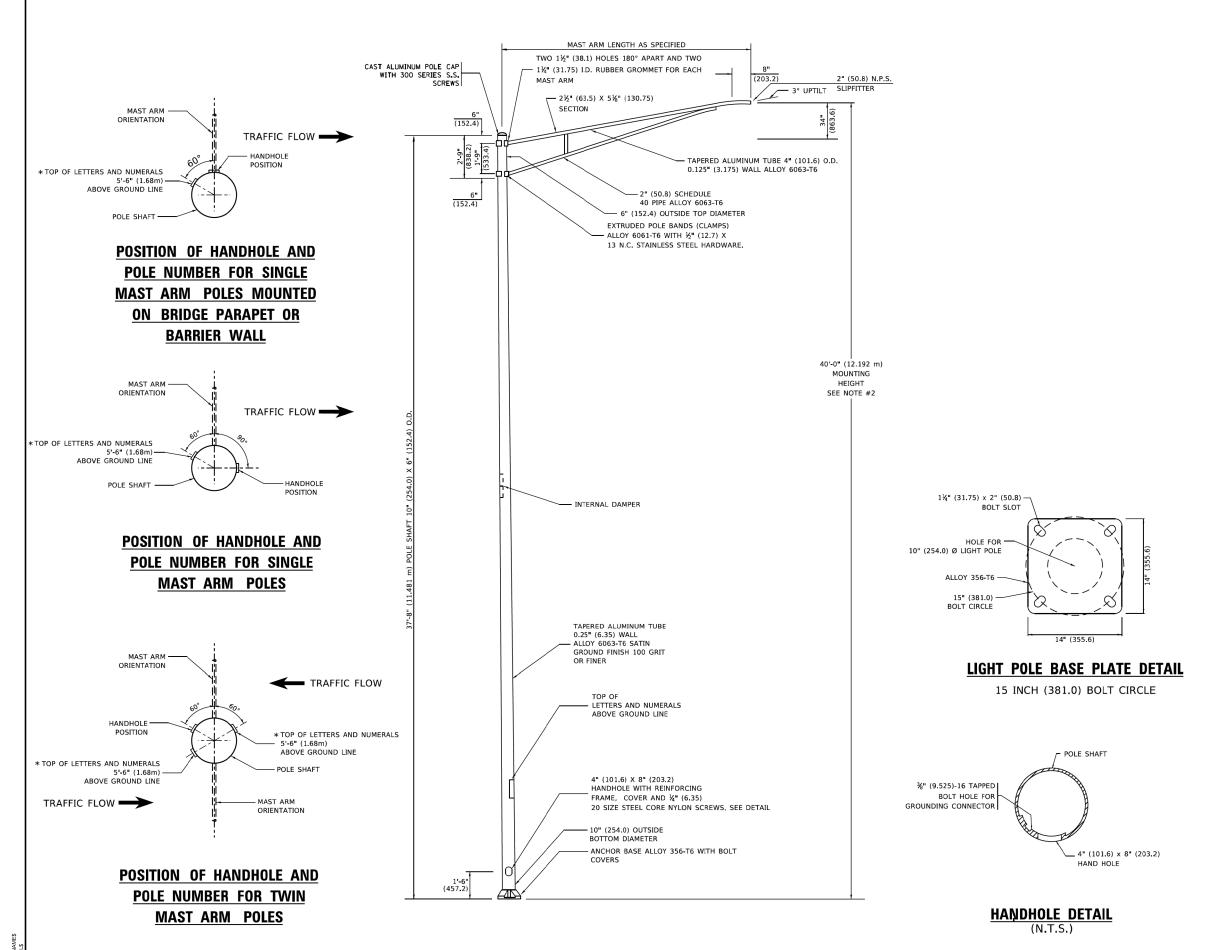
Dia.

**ANCHOR ROD DETAIL** 

USER NAME = \$USER\$	DESIGNED	-		REVISED	-	04-22-02
	DRAWN	-		REVISED	-	
PLOT SCALE = \$SCALE\$	CHECKED	-		REVISED	-	
PLOT DATE = \$DATE\$	DATE	-	07-09-2024	REVISED	-	

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

	D	DISTRICT ONE DETAILS BE-301 HEET 6 OF 16 SHEETS STA.		F.A.U. RTE. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.			
			1503	21-0033	9-00-CH		KANE	132	122			
							CONTRACT	NO. 61	J91			
	SHEET 6	OF 16	SHEETS	STA.	TO STA.			ILLINOIS	FED AL	D PROJECT		



## **NOTES**

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
- 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
- 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
- 6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
- 7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

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NAME		
Ž	Stanley Consultants Inc.	P
ū	www.storleyconsultants.com Bines Firm Registration No. 184-001533	F

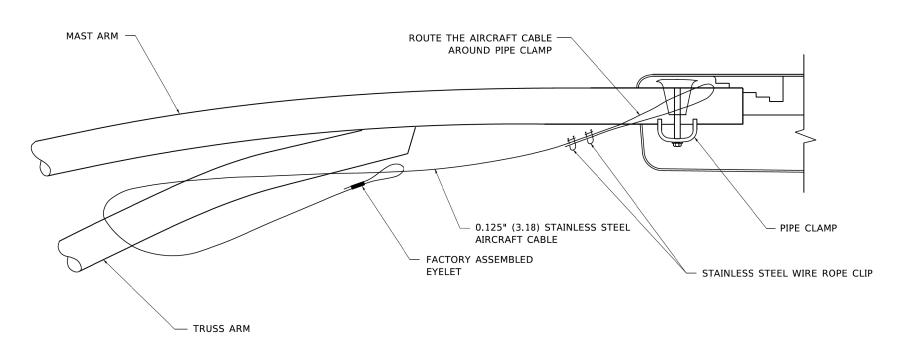
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	DRAWN -	REVISED -	R. Tomsons 09-02-03
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	R. Tomsons 01-18-13
PLOT DATE = \$DATE\$	DATE - 07-09-2024	REVISED -	06/13/2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

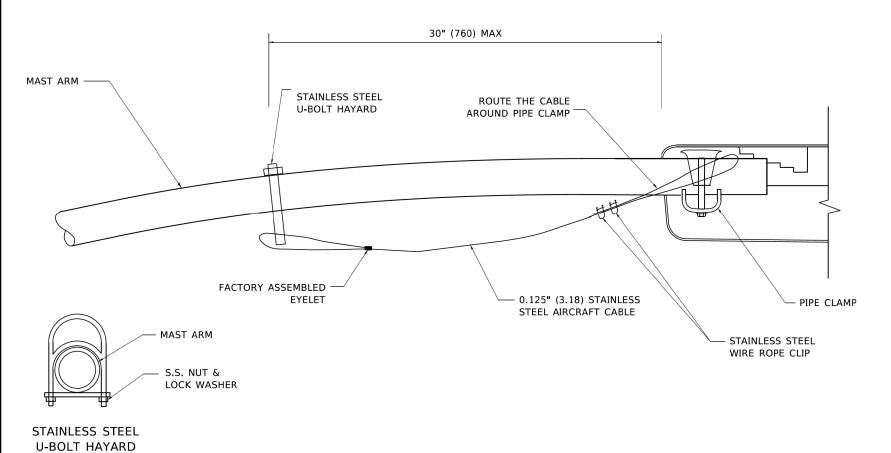
SCALE: NONE

SHEET 7

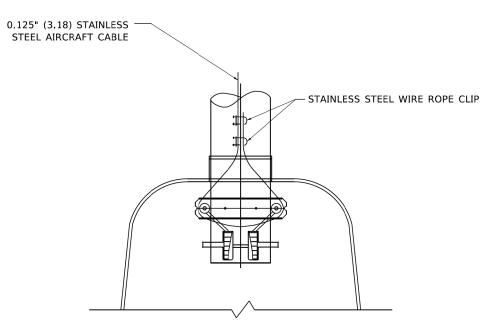
DISTRICT ONE DETAILS BE-401		F.A.U. RTE				COUNTY	TOTAL SHEETS	SHEET NO.	
		1503	1503 21-00339-00-CH			KANE	132	123	
						CONTRAC	ΓNO. 61	J91	
OF 16 SHEE	TS STA	TO STA		I a	LINOIC	EED AU	D DDO IECT		



## SIDE VIEW (TRUSS ARM) N.T.S.



## SIDE VIEW (SINGLE MEMBER OR DAVIT ARM) N.T.S.



## BOTTOM VIEW N.T.S.

## NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
- 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
- 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

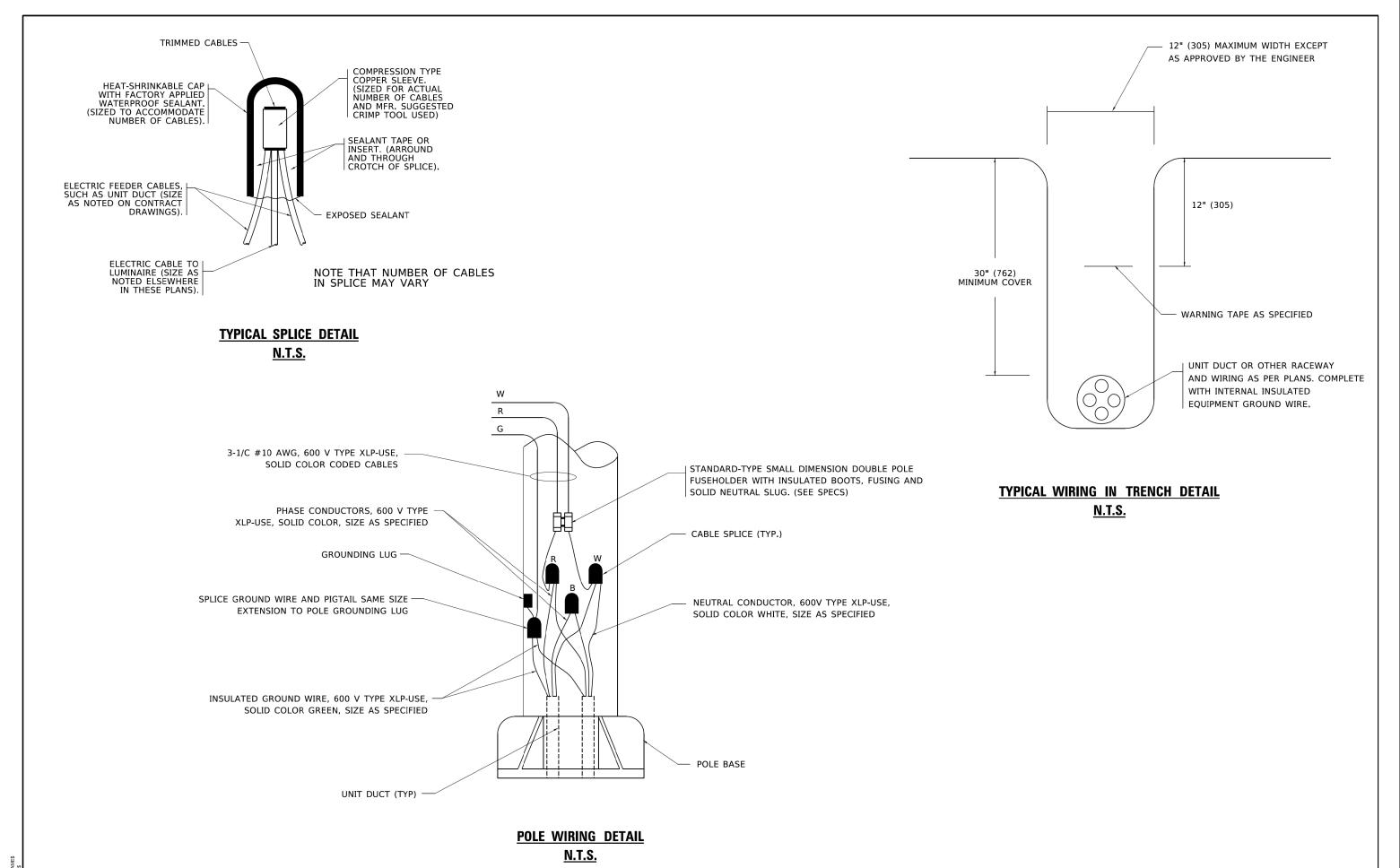


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	DRAWN -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = \$DATE\$	DATE - 07-09-2024	REVISED -
FEOTBAIL - SDATES	DATE - 07-05-2024	KEVISED -

STAT	E OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

SCALE: NONE

	DISTRICT ONE DETAILS						SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
BE-701			1503	21-00339-00-CH		KANE	132	124			
	DE=/UI						CONTRACT	NO. 6	IJ91		
	SHEET 8	OF 16	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID	D PROJECT		



Stanley Consultants Inc.
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steas First Registers, 184-801533

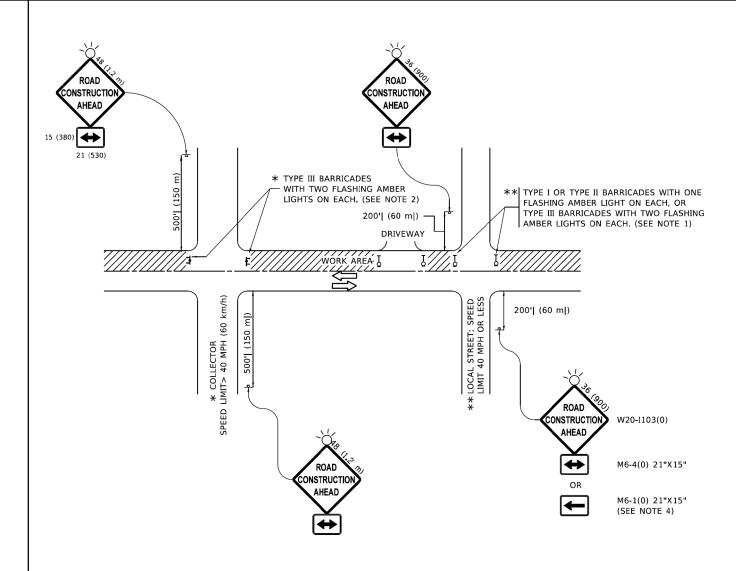
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 DESIGNED
 REVISED
 02/04/2020

 PLOT SCALE
 = \$SCALE\$
 CHECKED
 REVISED

 PLOT DATE
 = \$DATE\$
 08/08/2003
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE



## 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

SCALE: NONE

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).

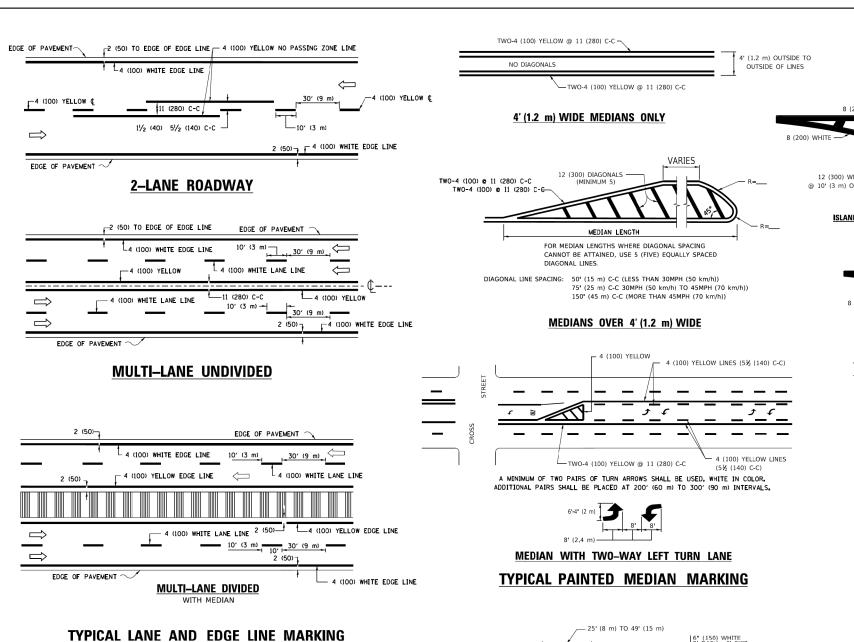
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED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

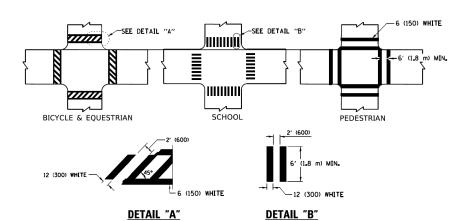
All dimensions are in inches (millimeters) unless otherwise shown.



USER NAME = \$USER\$	DESIGNED - L.H.A.	REVISED -	T. RAMMACHER 01-06-
	DRAWN -	REVISED -	A. SCHUETZE 07-01-13
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	A. SCHUETZE 09-15-16
PLOT DATE = \$DATE\$	DATE - 06-89	REVISED -	D. SENDERAK 05-03-24

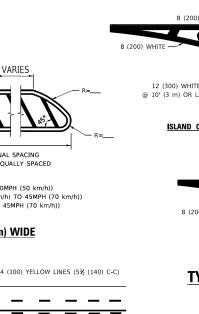
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TC-10					1503	21-00339-00	00-CH		KANE	132	126	
	10-10									CONTRACT	NO. 61	J91
	SHEET 10	OF 16	SHEETS	STA.	TO STA.		ILL	LINOIS	FED. All	D PROJECT		

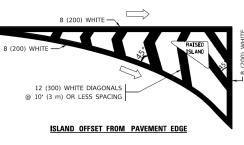




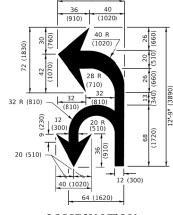
## TYPICAL CROSSWALK MARKING

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

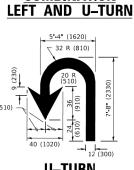


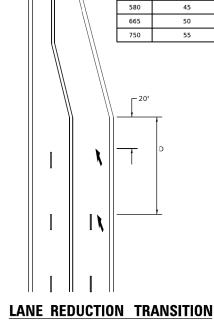






# **COMBINATION**





D(FT) SPEED LIMIT

40

45

345

425

500

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4" (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m / EACH "X"=54.0 SQ. FT. (5.0 m / 2
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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



USER NAME = \$USER\$	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN -	REVISED - C. JUCIUS 07-07-13
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = \$DATE\$	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**DEPARTMENT OF TRANSPORTATION** 

\_\_\_ 50' (15 m) TO 200' (60 m) 🗶

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF

TYPICAL LEFT (OR RIGHT) TURN LANE

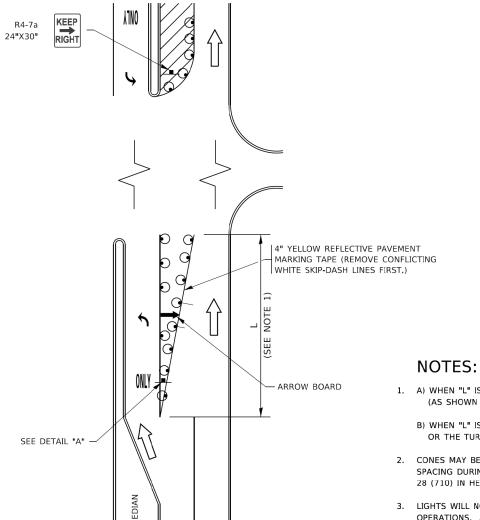
TYPICAL TURN LANE MARKING

— 10' (3 m) \_\_\_\_ 6 (150) WHITE

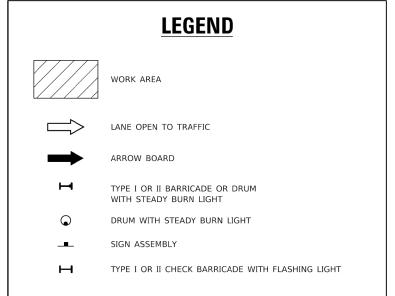
CONSTRUC	HON AND STA	ATE STANDARD	/80001.								
						F.A. U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	TC-13						1503	21-00339-00-CH	KANE	132	127
	10-13								CONTRAC	T NO. 61	IJ91
SCALE:	NONE	SHEET 11	OF 16	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

STATE OF ILLINOIS

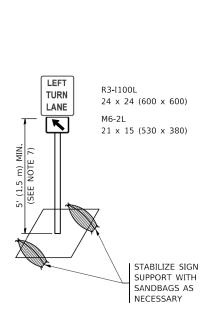
## TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



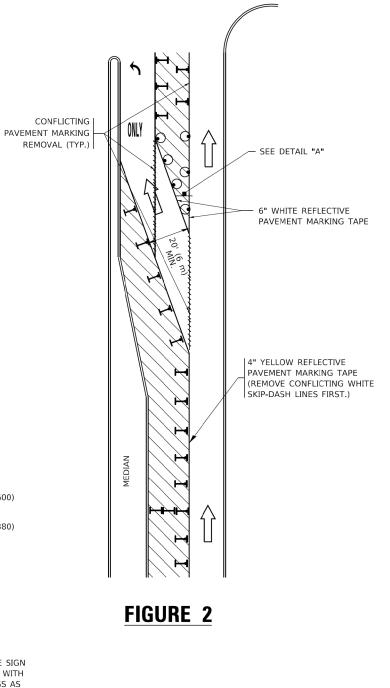
## FIGURE 1



- 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
- 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 PREQUIREMENTS.
- 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**

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

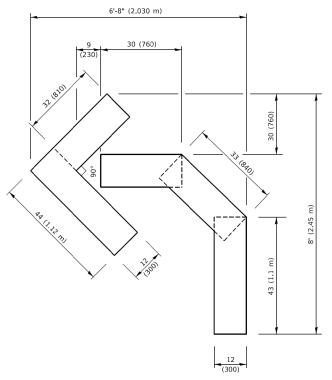
5	
į	
NAME	Stanley Consultants INC.
4	8501 West Higgins Road, Suite 730, Chicago, Minois 60631-2801
ī	www.stonley.com.uitonles.com Illinois Firm Registration No. 184-001533

USER NAME = \$USER\$	DESIGNED	-	T. RAMMACHER 09-08-94	REVISED	-	R. BORO 09-14-09
	DRAWN	-		REVISED	-	A. SCHUETZE 07-01-1
PLOT SCALE = \$SCALE\$	CHECKED	-		REVISED	-	A. SCHUETZE 09-15-1
PLOT DATE = \$DATE\$	DATE	-	01-06-00	REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

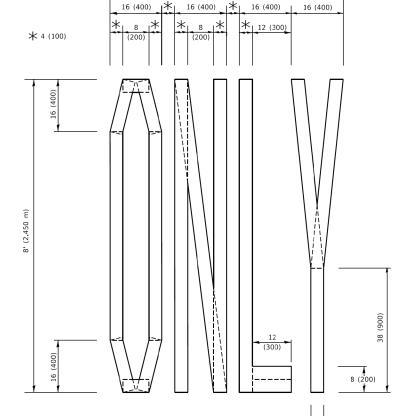
DISTRICT ONE DETAILS	F.A. U. RTE.	SEC
TC-14	1503	21-003
10 17		
SCALE: NONE   SHEET 12 OF 16 SHEETS STA. TO STA.		

ECTION 0339-00-CH KANE 132 128 CONTRACT NO. 61J91



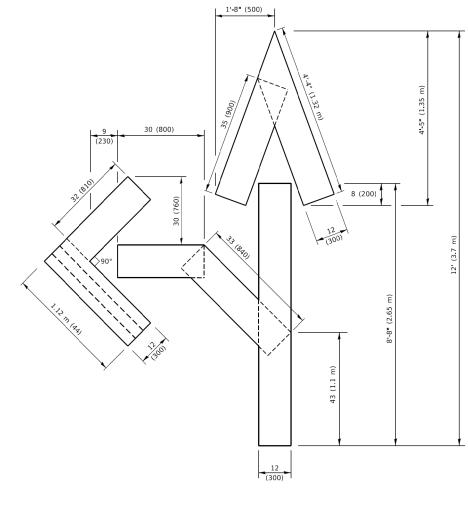
## **QUANTITY**

4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.41 sq. m)



4 (100) LINE = 64.1 ft. (19.5 m) 21.4 sq. ft. (1.99 sq. m)

**QUANTITY** 

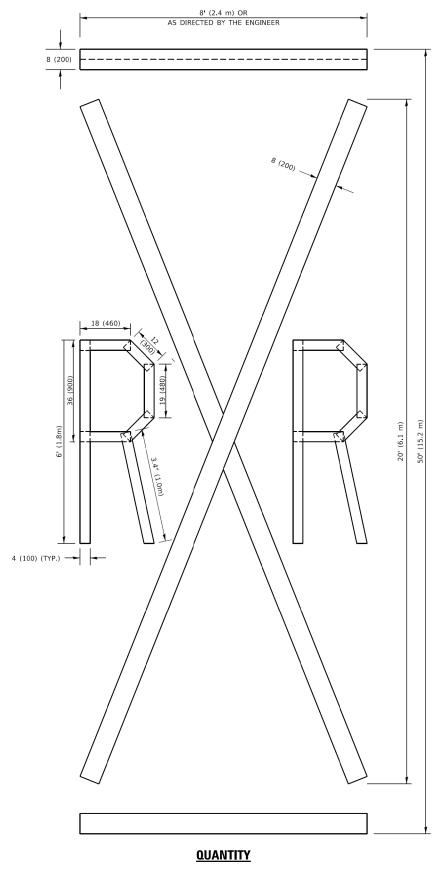


## QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m) 27.5 sq. ft. (2.53 sq. m)

## NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

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



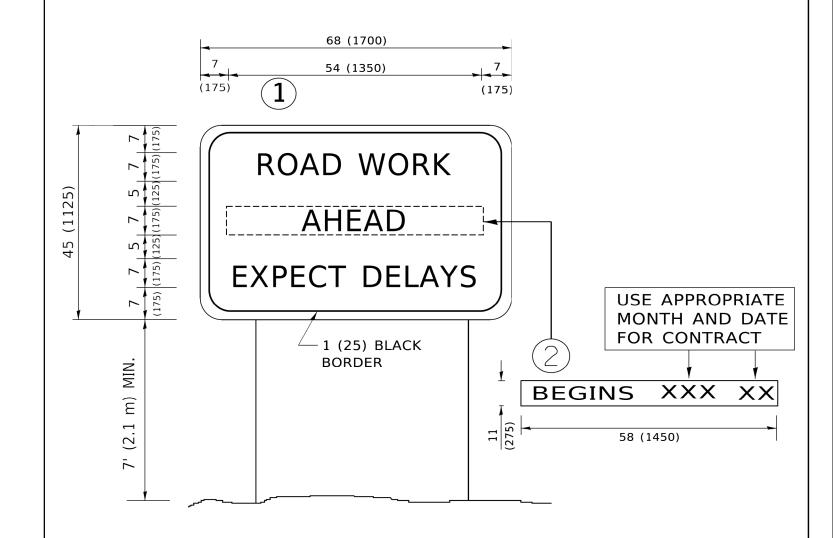
USER NAME = \$USER\$	DESIGNED -	REVISED -	T. RAMMACHER 03-0
	DRAWN -	REVISED -	E. GOMEZ 08-28-00
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	E. GOMEZ 08-28-00
PLOT DATE = \$DATE\$	DATE - 09-18-94	REVISED -	A. SCHUETZE 09-15-

4 (100)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAILS TC-16									
I	SCALE: NONE	SHEET 13	OF 16	SHEETS	STA.	TO STA.			

A.U. TE	SEC <sup>-</sup>	COUNTY	TOTAL SHEETS	SHE		
503	21-0033	9-00-CH	KANE	132	12	
				CONTRACT	NO. 61	J91
		ILLINOIS	D PROJECT			



## **NOTES:**

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN 1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.

SHEET

6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)

SCALE: NONE

7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.



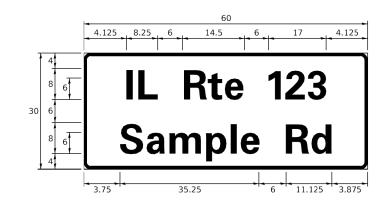
USER NAME = \$USER\$	DESIGNED -	REVISED -	R. MIRS 09-15-97
	DRAWN -	REVISED -	R. MIRS 12-11-97
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	T. RAMMACHER 02-02-9
PLOT DATE = \$DATE\$	DATE - 07-09-2024	REVISED -	C. JUCIUS 01-31-07

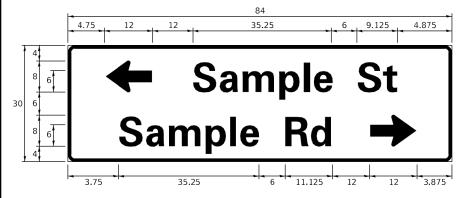
STATE	DF ILLINOIS
DEPARTMENT O	F TRANSPORTATION

	F.A.U. RTE					
	1503					
		ΓC-22				
14	OF 16	SHEETS	STA	TO STA		

## SIGN PANEL - TYPE 1 OR TYPE 2

## 3.75 35.25 6 11.125 3.875 Sample Rd





DESIGN	AREA	SIGN PANEL	SHEET ING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D OR C	-	1 OR 2	ZZ	

## COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH	(INCH)		
INAML	ADDICEVATION	SERIES "C"	SERIES "D"		
AVENUE	Ave	15.000	18.250		
BOULEVARD	Blvd	17.125	20.000		
CIRCLE	Cir	11.125	13.000		
COURT	Ct	8. 250	9.625		
DRIVE	Dr	8. 625	10.125		
HIGHWAY	Hwy	18.375	22.000		
ILLINOIS	ΙL	7. 000	8. 250		
LANE	Ln	9. 125	10.750		
PARKWAY	Pkwy	23. 375	27. 375		
PLACE	PΙ	7. 125	7. 750		
ROAD	Rd	9. 625	11.125		
ROUTE	Rte	12.625	14.500		
STREET	St	8. 000	9.125		
TERRACE	Ter	12.625	14.625		
TRAIL	Tr	7. 750	9.125		
UNITED STATES	US	10.375	12.250		

## **GENERAL NOTES**

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL, A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS: PARTS LISTING:

 J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA

- WESTERN REMAC, INC.

WOODRIDGE, IL

SIGN CHANNEL SIGN SCREWS BRACKETS PART #HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER

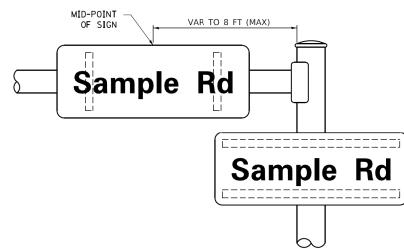
PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

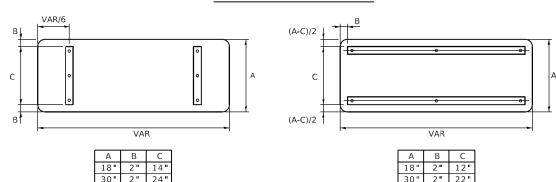
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

## **MOUNTING LOCATION**

ARM OR POLE MOUNTED



## **SUPPORTING CHANNELS**



## STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

	FHWA SE	RIES "C"		FHWA SERIES "D"						
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACIN (INCH			
Α	0.240	5.122	0.240	Α	0.240	6.804	0.240			
В	0.880	4.482	0.480	В	0.960	5.446	0.400			
С	0.720	4.482	0.720	С	0.800	5.446	0.800			
D	0.880	4.482	0.720	D	0.960	5.446	0.800			
E F	0.880 0.880	4.082 4.082	0.480 0.240	E F	0.960 0.960	4.962 4.962	0.400			
G	0.720	4. 482	0.720	G	0. 800	5.446	0.800			
Н	0.880	4. 482	0.880	Н	0.960	5.446	0.960			
I	0.880	1.120	0.880	I	0.960	1.280	0.960			
J	0.240	4.082	0.880	J	0.240	5.122	0.960			
K	0.880	4.482	0.480	К	0.960	5.604	0.400			
L	0.880	4.082	0.240	L	0.960	4.962	0.240			
М	0.880	5.284	0.880	М	0.960	6.244	0.960			
N	0.880	4.482	0.880	N	0.960	5.446	0.960			
0	0.720	4. 722	0.720	0	0.800	5.684	0.800			
Р	0.880	4.482	0.720	Р	0.960	5.446	0.240			
0	0.720	4. 722	0.720	Q	0.800	5.684	0.800			
R	0.880	4.482	0.480	R	0.960	5.446	0.400			
S T	0.480	4.482	0.480	S T	0.400	5.446	0.400			
U	0.240 0.880	4. 082 4. 482	0.240 0.880	U	0. 240 0. 960	4.962 5.446	0.240			
V	0. 880	4. 962	0.240	V	0. 240	6.084	0. 240			
W	0.240	6. 084	0.240	W	0. 240	7. 124	0.240			
X	0.240	4. 722	0.240	X	0.400	5.446	0.400			
Y	0.240	5. 122	0.240	Y	0. 240	6.884	0.240			
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400			
a	0.320	3.842	0.640	а	0.400	4.562	0.720			
Ь	0.720	4.082	0.480	b	0.800	4.802	0.480			
С	0.480	4.002	0.240	С	0.480	4.722	0.240			
d	0.480	4.082	0.720	d	0.480	4.802	0.800			
е	0.480	4.082	0.320	е	0.480	4.722	0.320			
f	0.320	2.480	0.160	f	0.320	2.882	0.160			
g	0.480	4.082	0.720	g	0.480	4.802	0.800			
h	0.720	4.082	0.640	h	0.800	4.722	0.720			
i ·	0.720	1.120	0.720	i	0.800	1.280	0.800			
j	0.000 0.720	2. 320 4. 322	0.720	j k	0.000 0.800	2.642	0.800			
k I	0.720	1. 120	0.160 0.720	I	0.800	5.122 1.280	0. 800			
m	0.720	6. 724	0. 640	m	0.800	7. 926	0.720			
n	0.720	4. 082	0.640	n	0.800	4.722	0.720			
0	0.480	4.082	0.480	0	0.480	4.882	0.480			
P	0.720	4.082	0.480	р	0.800	4.802	0.480			
q	0.480	4.082	0.720	q	0.480	4.802	0.800			
r	0.720	2.642	0.160	r	0.800	3.042	0.160			
s	0.320	3. 362	0.240	S	0.320	3.762	0.240			
†	0.080	2.882	0.080	t	0.080	3. 202	0.080			
U	0.640	4.082	0.720	u	0.720	4.722	0.800			
٧	0.160	4. 722	0.160	V	0.160	5.684	0.160			
w	0.160	7. 524	0.160	w	0.160	9.046	0.160			
×	0.000	5. 202	0.000	X	0.000	6. 244	0.000			
У	0.160	4.962	0.160	У	0.160	6.004	0.160			
2 1	0.240 0.720	3. 362 1. 680	0.240 0.880	2 1	0. 240 0. 800	4.002 2.000	0.24C			
2	0. 120	4. 482	0.480	2	0.800	5.446	0. 800			
3	0.480	4. 482	0.480	3	1.440	5.446	0.800			
4	0.240	4. 962	0.720	4	0.160	6.004	0.960			
5	0.480	4. 482	0.480	5	0.800	5.446	0.800			
6	0.720	4.482	0.720	6	0.800	5.446	0.800			
7	0.240	4.482	0.720	7	0.560	5.446	0.560			
8	0.480	4.482	0.480	8	0.800	5.446	0.800			
9	0.480	4.482	0.480	9	0.800	5.446	0.800			
0	0.720	4.722	0.720	0	0.800	5.684	0.800			
-	0.240	2.802	0.240	-	0.240	2.802	0.240			
			I	I			I			

Stanley Consultants Inc.
801 teal rights flox, Soir 70, Octops, Bross 6431-2601
8451 Teal Registration 16, 186-05233

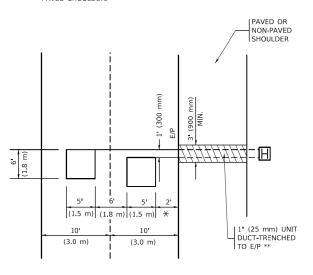
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	DRAWN -	LP	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED -	IP	REVISED -	
PLOT DATE = \$DATE\$	DATE -	10/01/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

_	<u> </u>												
Ī			F.A.U. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.						
	TS-02					1503	3 21-00339-00-CH			KANE	132	131	
L	13-02								CONTRAC	ΓNO. 6	IJ91		
П	SCALE: NONE	SHEET 15	OF 16	SHEETS	STA.	TO STA.			ILLINOIS	FED AL	D PROJECT		

## LOOPS NEXT TO SHOULDERS

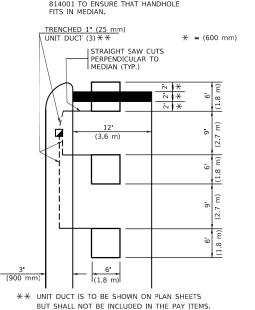
PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER



## LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

## (PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



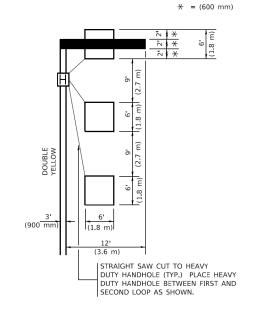
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

## LEFT TURN LANES WITHOUT MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

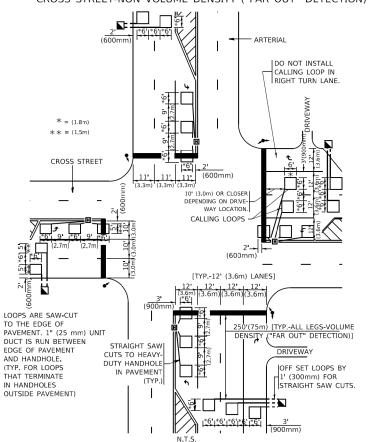
SCALE: NONE

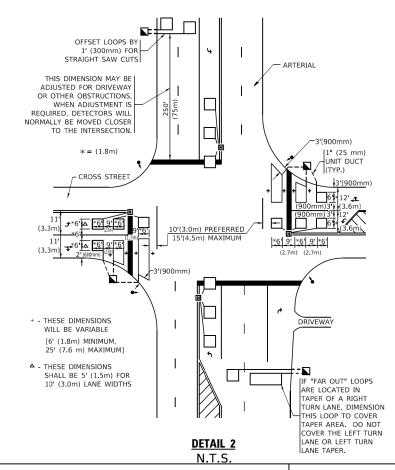
## \* \* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS

+ = (600 mm)

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)





### NOTES:

### VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

### PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

### NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

## **DETAIL 1** N.T.S.

JSER NAME = \$USER\$ DESIGNED -REVISED - LP 07/01/2015 DRAWN -REVISED -CHECKED -R.K.F. REVISED PLOT DATE = \$DATE\$ REVISED -DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION DISTRICT ONE DETAILS 1503 21-00339-00-CH TS-07

COUNTY KANE 132 132 CONTRACT NO. 61J91 SHEET 16 OF 16 SHEETS STA. TO STA.

Stanley Consultants INC 8501 Best Higgies Rood, Suite 730, Okcopa, Binois 60631-2801 sew Jateshyconsularius.com