

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RTE.	SECTION	COUNTY	SHEETS	NO.
80&55	(99-1&2)PP-1	WILL	24	1
		ILLINOIS	CONTRACT NO. 62G33	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN:
THE CITY OF JOLIET
THE VILLAGE OF BOLINGBROOK
THE VILLAGE OF CHANNAHON
THE VILLAGE OF PLAINFIELD
THE VILLAGE OF ROCKDALE
THE VILLAGE OF ROMEOVILLE
THE VILLAGE OF SHOREWOOD

**PROPOSED
HIGHWAY PLANS**

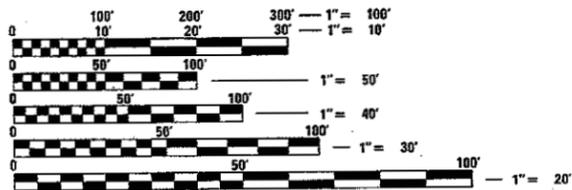
F.A.I 80 /F.A.I. 55 (INTERSTATE 80 /INTERSTATE 55)
LOCATION 1: F.A.I. 80: INTERSTATE 80
GRUNDY-WILL COUNTY LINE TO THE DES PLAINES RIVER
LOCATION 2: F.A.I. 55: INTERSTATE 55

THE DES PLAINES RIVER(SOUTH OF INTERSTATE 80) TO WEBER ROAD
SECTION: (99-1&2)PP-1
INTERMITTENT RESURFACING
WILL COUNTY

C-91-163-18

TRAFFIC DATA

ROUTE SEGMENT	SPEED	ADT (YEAR)
I-80		
KENDALL/GRUNDY LINE TO I-55	70 MPH	60,500 (2017)
I-55 TO HOUBOLT ROAD	70 MPH	61,900 (2017)
HOUBOLT ROAD TO LARKIN AVENUE	70 MPH	60,100 (2017)
LARKIN AVENUE TO RAYNOR AVENUE	55 MPH	69,500 (2017)
RAYNOR AVENUE TO DES PLAINES RIVER	55 MPH	85,400 (2017)
I-55		
DES PLAINES RIVER TO BLUFF ROAD	65 MPH	65,600 (2017)
BLUFF ROAD TO IL 6	65 MPH	63,900 (2017)
IL 6 TO I-80	65 MPH	71,100 (2017)
I-80 TO IL 59	65 MPH	78,200 (2017)
IL 59 TO US 52	65 MPH	85,400 (2017)
US 52 TO US 30	65 MPH	86,600 (2017)
US 30 TO IL 126	65 MPH	95,600 (2017)
IL 126 TO WEBER ROAD	65 MPH	120,500 (2017)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: DANIEL WILGREEN (847) 705-4240
PROJECT MANAGER: FAWAD AQUEEL (847)705-4247

CONTRACT NO. 62G33



FOR GENERAL LOCATION MAP, SEE SHEET NO. 4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 26 2018
Anthony J. Quigley / AS
REGIONAL ENGINEER
May 11 2018
E.A. EK
ENGINEER OF DESIGN AND ENVIRONMENT
May 11 2018
Daniel P. Chaf
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

<u>SHEET NO.</u>	<u>DESCRIPTION</u>	<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET	000001-06	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
3	SUMMARY OF QUANTITIES	701401-11	LANE CLOSURE, FREEWAY/EXPRESSWAY
4	GENERAL LOCATION MAP	701411-09	MULTI-LANE, TRAFFIC CONTROL AT ENTRANCE OR EXIT RAMP
5	ROUTE AND SUMMARY OF INTERMITTENT RESURFACING INFORMATION	701428-01	TRAFFIC CONTROL SETUP & REMOVAL FREEWAY/EXPRESSWAY
6-8	INTERMITTENT RESURFACING SCHEDULE	701446-09	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
9-17	TRAFFIC SYSTEMS CENTER TYPICAL LOOP INSTALLATION STANDARDS	701901-07	TRAFFIC CONTROL DEVICES
18	BUTT JOINT AND HMA TAPER DETAILS (BD-32)		
19	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)		
20	FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)		
21-22	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)		
23	FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)		
24	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS (TC-18)		

- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE (OR TOLLWAY) PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT (OR ISTHA)
- NO WORK SHALL BE PERFORMED ON ANY BRIDGES OR ELEVATED STRUCTURES.
- NO PATCHING OR RESURFACING IS TO BE DONE WITHIN FIFTY (50) FEET OF ANY RAILROAD CROSSING.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING ALL WORK.
- THE CONTRACTOR SHALL REGISTER AN ACCOUNT AT WWW.IDOTLCS.COM TO ENTER DAILY NIGHT TIME LANE CLOSURES. CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION EXPRESSWAY OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE AND RAMP CLOSURES.
- THE ENGINEER SHALL CONTACT ROY LAWSON OF THE IDOT TRAFFIC SYSTEMS CENTER, AT (708) 524-2145 OR BY EMAIL ROY.LAWSON@ILLINOIS.GOV, TWO (2) WEEKS PRIOR TO BEGINNING OF WORK.
- THE EXISTING ROADWAY TYPICAL SECTION IS ASSUMED TO HAVE A 3 INCH HOT-MIX ASPHALT OVERLAY ON TOP OF A TEN INCH CONCRETE BASE.
- ALL INTERMITTENT RESURFACING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL INTERMITTENT RESURFACING LOCATIONS SHOWN IN THE PLANS ARE TWO (2) INCH MILL AND RESURFACE ONLY. THE MINIMUM WIDTH FOR INTERMITTENT RESURFACING SHALL BE THREE (3) FEET.
- THE COST OF ANY PARTIAL OR FULL DEPTH PATCHING REQUIRED AFTER THE REMOVAL OF THE EXISTING 2 INCH HOT-MIX ASPHALT SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS OUTSIDE OF PATCHING AREA SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- EXISTING RUMBLE STRIPS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- NUMEROUS INDUCTION LOOPS AND SENSYS PUCKS EXIST WITHIN THE PROJECT LIMITS, AND MAY BE EFFECTED BY INTERMITTENT RESURFACING OPERATIONS. ANY DAMAGE/ REMOVAL OF INDUCTION LOOPS / SENSYS PUCKS AS A RESULT OF INTERMITTENT RESURFACING OPERATIONS SHALL BE REPLACED IN KIND. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR, MEADE ELECTRIC COMPANY, AT (773) 287-7672 TO LOCATE EXISTING IDOT ELECTRICAL FACILITIES WITHIN THE AREAS OF INTERMITTENT RESURFACING, QUANTIFY LOOP/PUCK REPLACEMENTS NEEDED, AND PROVIDE THE RESIDENT ENGINEER THIS INFORMATION, AND UPON APPROVAL FROM ENGINEER, PROCEED WITH INTERMITTENT RESURFACING OPERATIONS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS(%) @ N _{DES.}	
RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 2"	3.5% @ 80 GYR	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE(QC/QA); QUALITY CONTROL FOR PERFORMANCE(QCP); PAY FOR PERFORMANCE(PFP)		

THE UNIT WEIGHT USED TO CALCULATE ALL HOT MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN.

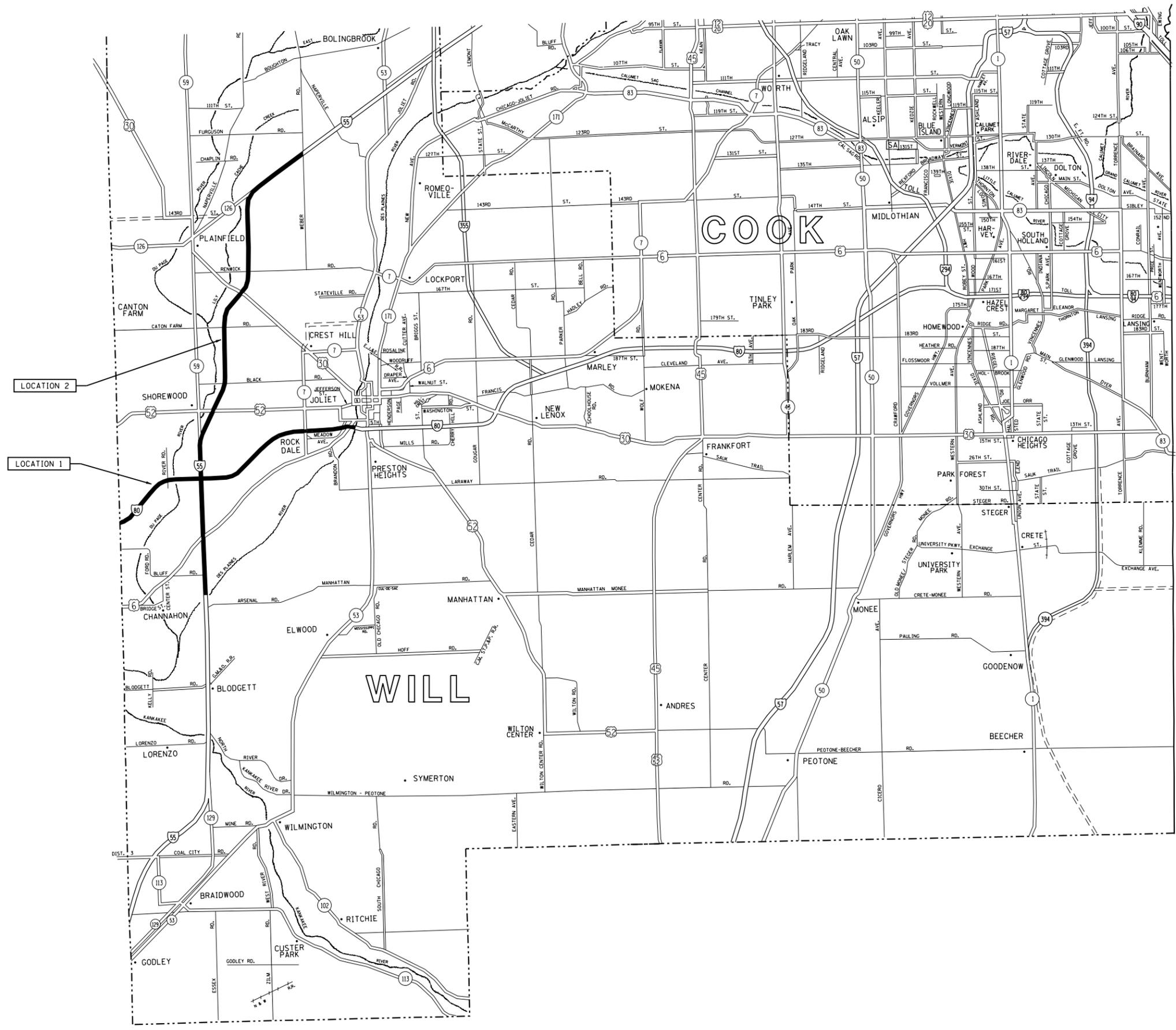
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

URBAN

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		100% STATE 1-80 0005	100% STATE 1-55 0005			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1962	604	1358			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	7	2	5			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	132	41	91			
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	4357	1341	3016			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	1.8	4.2			
67100100	MOBILIZATION	L SUM	1	0.3	0.7			
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	2288	1120	1168			
70300905	PAVEMENT MARKING TAPE, TYPE IV 5"	FOOT	1252	380	872			
70300908	PAVEMENT MARKING TAPE, TYPE IV 8"	FOOT	1182	62	1120			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2288	1120	1168			
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1182	62	1120			
* 78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"	FOOT	1252	380	872			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	78	40	38			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	78	40	38			
			* SPECIALTY ITEM					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		100% STATE 1-80 0005	100% STATE 1-55 0005			
X4060004	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80	TON	489	151	338			
X7010410	SPEED DISPLAY TRAILER	CAL MO	1	0.3	0.7			
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.3	0.7			
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	30	9	21			
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	2073	573	1500			
* X8730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	FOOT	50		50			
* X8850102	INDUCTION LOOP	FOOT	168		168			
* X1400337	WIRELESS IN PAVEMENT DETECTOR	EACH	5	0	5			



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Default	PLOT DATE = 3/29/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

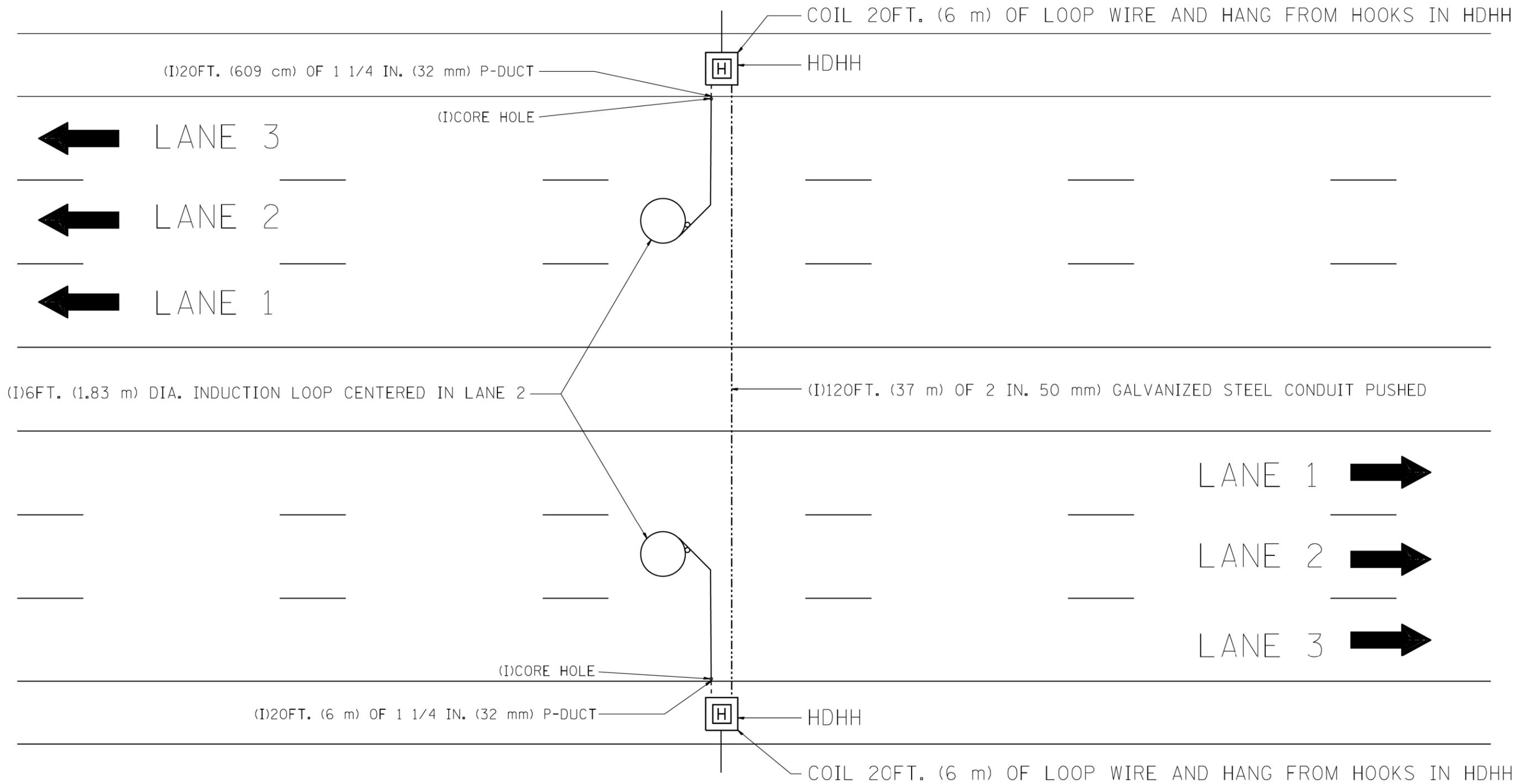
**GENERAL LOCATION MAP
I-80 AND I-55 INTERMITTENT RESURFACING**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80&55	(99-1&2)PP-1	WILL	24	4
CONTRACT NO. 62G33			ILLINOIS FED. AID PROJECT	

	SUMMARY - SOUTH EXPRESSWAY ROUTES	CITIES/VILLAGES	TOWNSHIPS	SPEED LIMIT	EXISTING ADT (YEAR)
LOC.1	I-80 (GRUNDY-WILL COUNTY LINE TO THE DES PLAINES RIVER)	JOLIET, ROCKDALE, SHOREWOOD	JOLIET, TROY	55-70 MPH	85,400 (2017)
LOC.2	I-55 (THE DES PLAINES RIVER TO WEBER ROAD)	BOLINGBROOK, CHANNAHON, JOLIET, PLAINFIELD, ROMEOVILLE, SHOREWOOD	CHANNAHON, DUPAGE, PLAINFIELD, TROY, WHEATLAND	65 MPH	120,500 (2017)

	INTERMITTENT RESURFACING SUMMARY	HMA 2" MILL & RESURFACE (SY)
LOC.1	I-80 (GRUNDY-WILL COUNTY LINE TO THE DES PLAINES RIVER)	1,341
LOC.2	I-55 (THE DES PLAINES RIVER TO WEBER ROAD)	3,016
	INTERMITTENT RESURFACING TOTAL =	4,357 SY



NOTE:

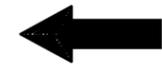
THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
IT SHALL NOT BE MEASURE FOR PAYMENT.

FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED - 12-02-2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	ONE LANE COUNT STATION		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 100.0000' / in.	CHECKED - J.G.	REVISED -				80&55	(99-1&2)PP-1	WILL	24	9
	PLOT DATE = 3/20/2018	DATE - 01-31-07	REVISED -		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 62G33			

COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

(I)10FT. (3 m) OF 1 1/4 IN. (32 mm) (P-DUCT(TRENCHED)



LANE 3



LANE 2



LANE 1

(I)120FT. (37 m) OF 2 IN. (50 mm) GALVANIZED STEEL CONDUIT PUSHED

(I)6FT. DIA. (1.83 m) INDUCTION LOOP CENTERED IN EACH LANE

LANE 1



LANE 2



LANE 3



(I)CORE HOLE

(I)10FT. (3 m) OF 1 1/4 IN. (30.0 mm) P-DUCT(TRENCHED)

HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

NOTE:

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
IT SHALL NOT BE MEASURE FOR PAYMENT.

INSTALL AT STATIONS.

FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	3 LANE COUNT STATION		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

10FT. (3 m) OF 1 1/4 IN. (32 mm) (P-DUCT(TRENCHED))



LANE 3



LANE 2

2IN. (50 mm) GALVANIZED STEEL CONDUIT PUSHED



LANE 1

COIL 20FT. (6M) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

2IN. (50 mm) GALVANIZED STEEL CONDUIT PUSHED

(1)6FT. DIA. (1.83 m) INDUCTION LOOP CENTERED IN EACH LANE

COIL 20FT. (6M) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

LANE 1



2IN. (50 mm) GALVANIZED STEEL CONDUIT PUSHED

LANE 2



LANE 3



CORE HOLE

HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

10FT. (3 m) OF 1 1/4 IN. (30.0 mm) P-DUCT(TRENCHED)

COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

NOTE:

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
IT SHALL NOT BE MEASURED FOR PAYMENT.

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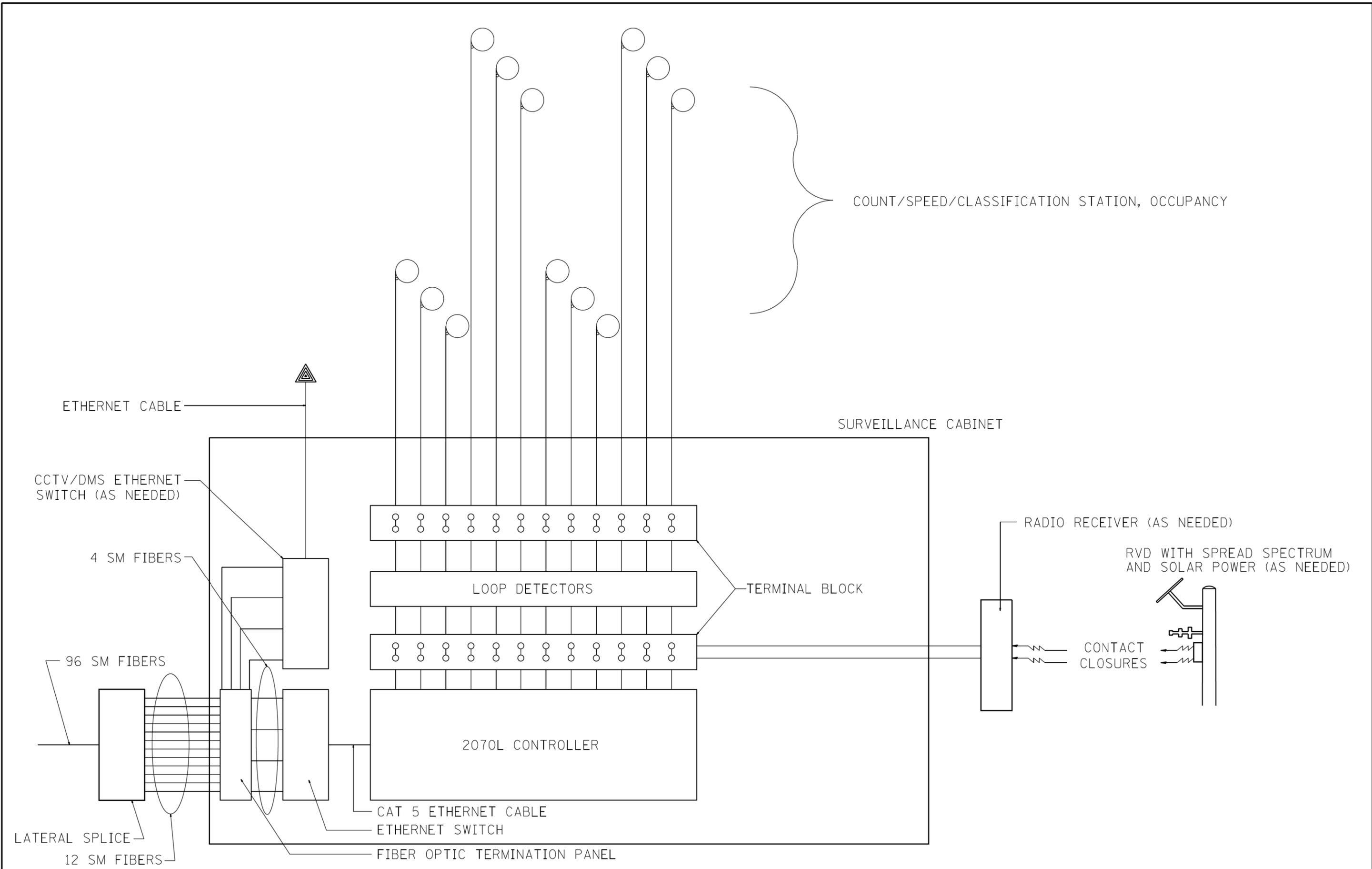
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

3 LANE COUNT STATION
(DIFFERENT DIRECTIONS)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80&55	(99-1&2)PP-1	WILL	24	11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G33	

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#32A)



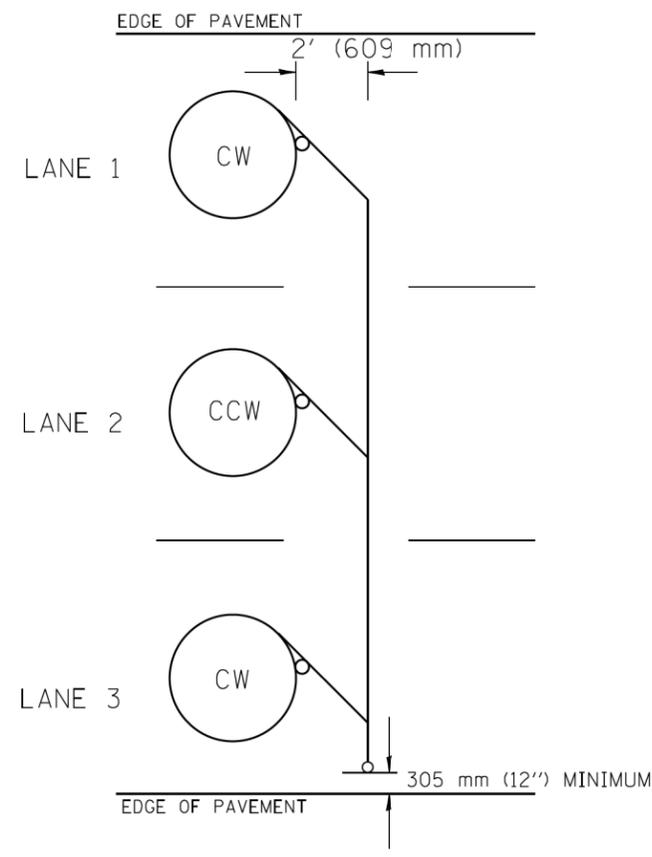
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

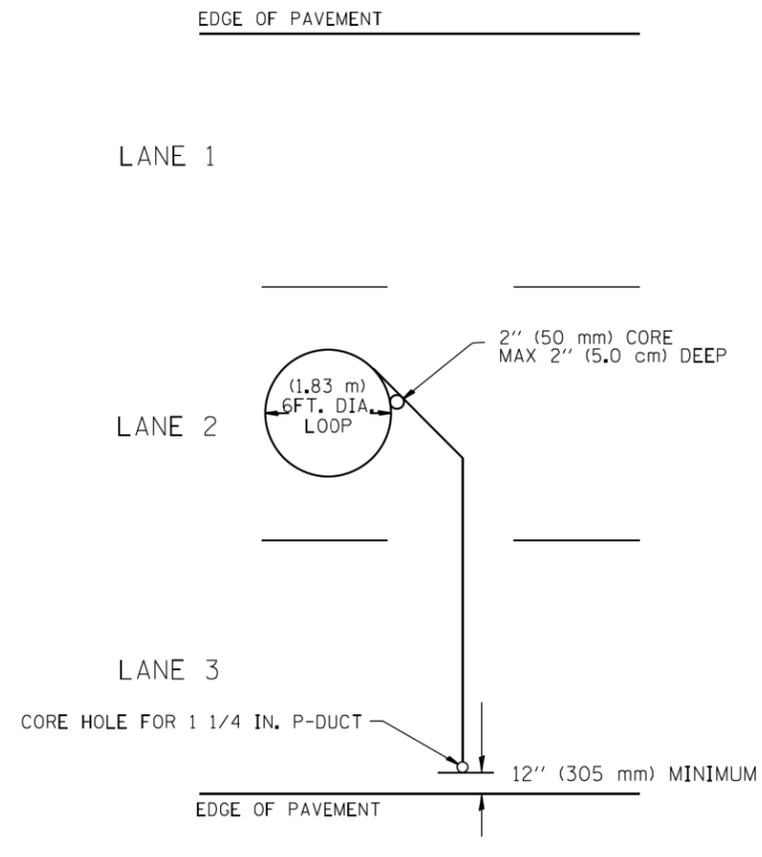
LOOP DETECTOR/SPEED DETECTOR			
CABINET LAYOUT			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE. 80&55	SECTION (99-1&2)PP-1	COUNTY WILL	TOTAL SHEETS 24	SHEET NO. 12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G33	

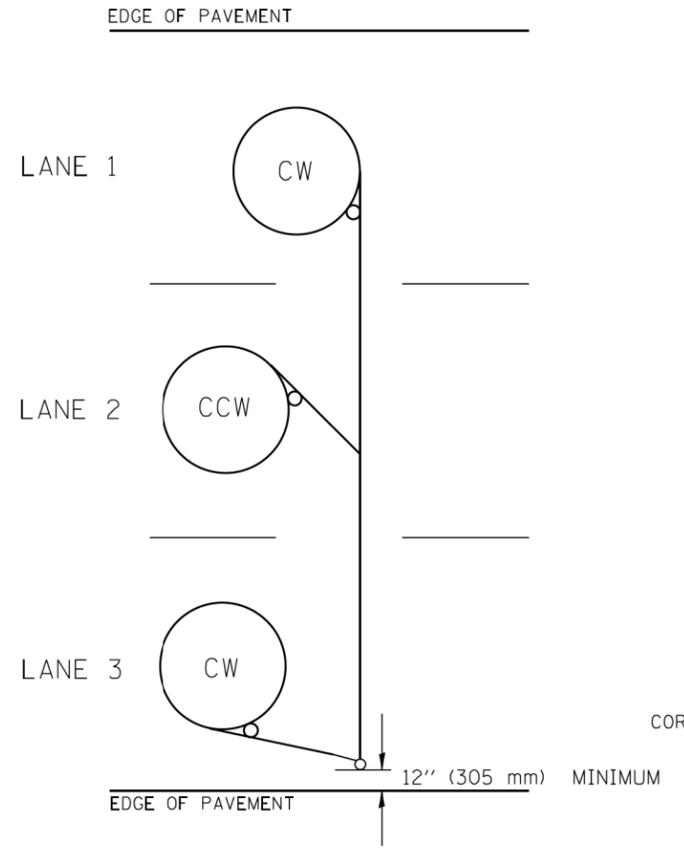
TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#44)



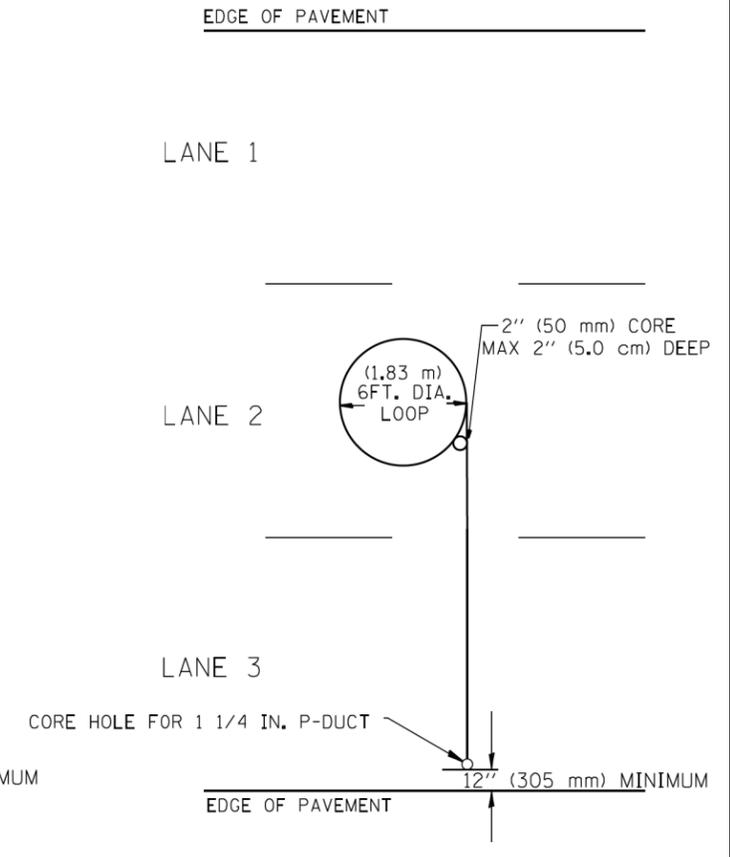
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



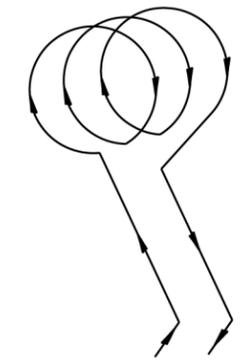
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



WIRING DETAILS

NOTES

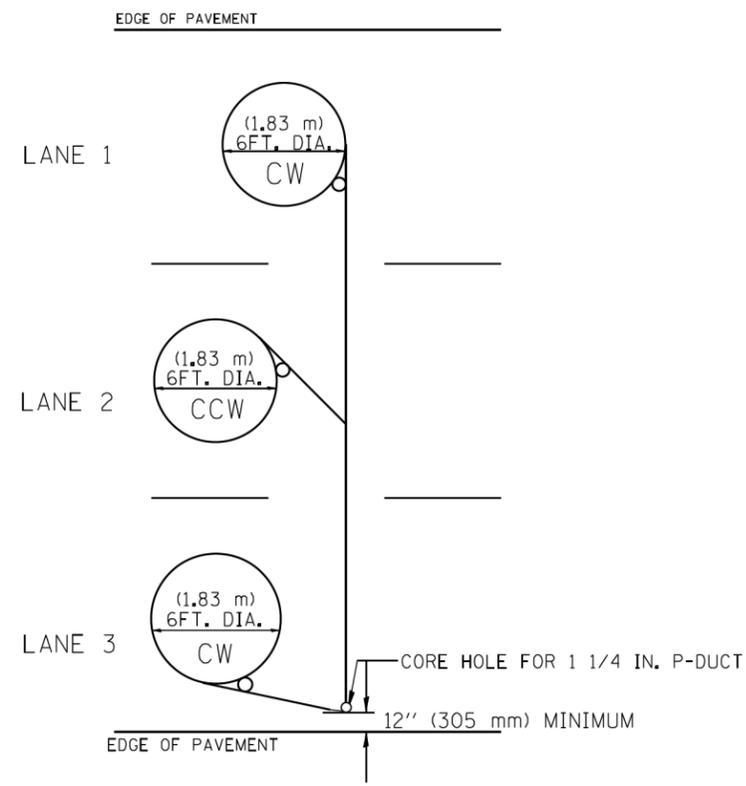
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 6/94
pw\11084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Traffic Systems Center\GIS\MapData\Electrical\Typical\REVISED.dgn		9/96	
PLOT SCALE = 100.0000' / in.	CHECKED - R.L.	REVISED - R.L.	03/2011
PLOT DATE = 3/20/2018	DATE - 6-22-94	REVISED -	

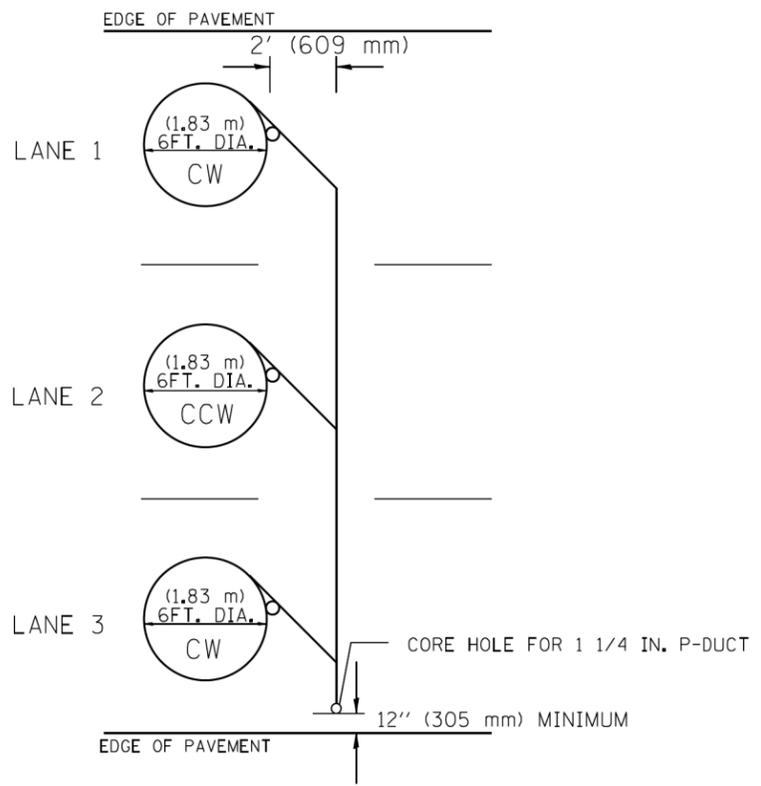
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

EXISTING ROUND LOOP INSTALLATION		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO	STA.
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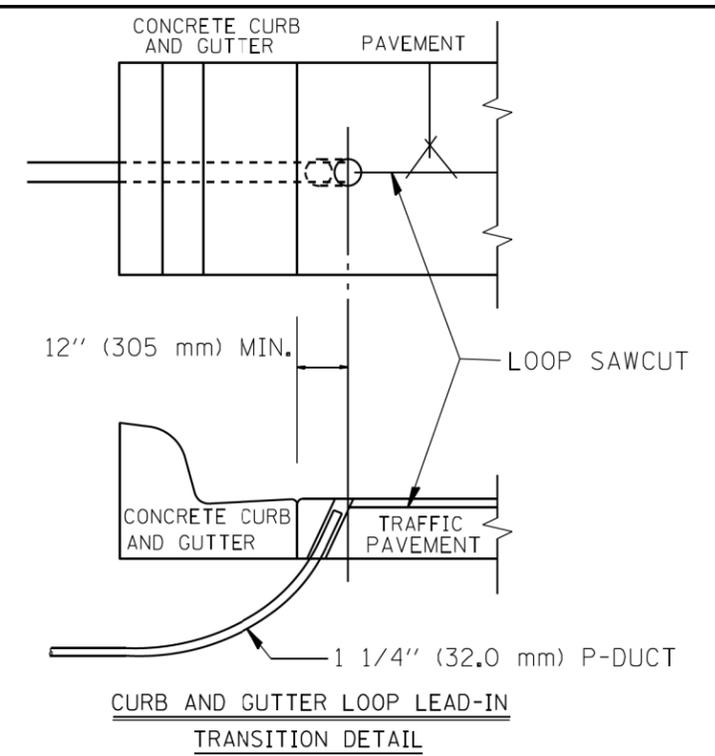
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80&55	(99-1&2)PP-1	WILL	24	13
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G33	



TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



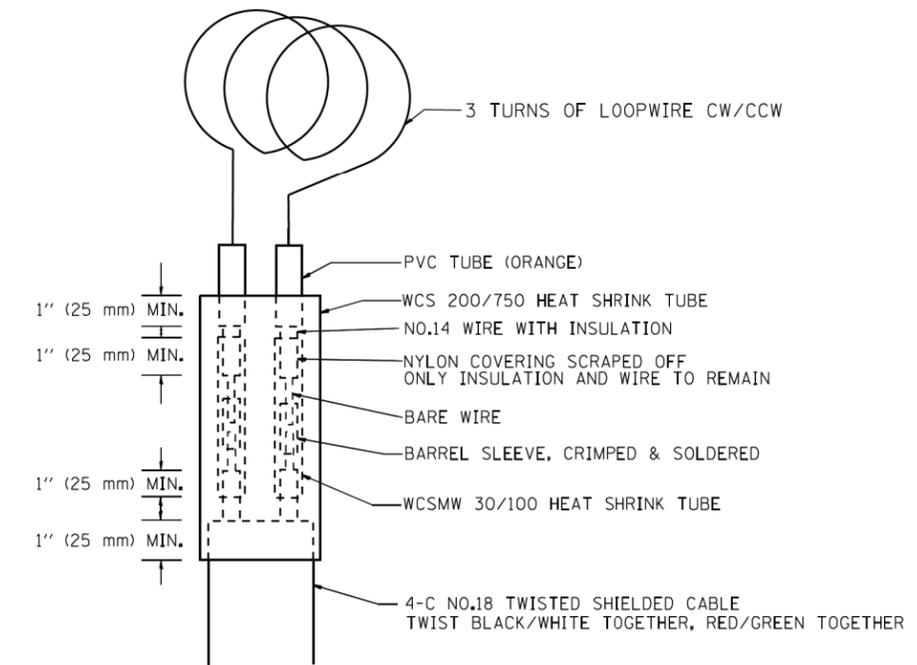
TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



CURB AND GUTTER LOOP LEAD-IN
TRANSITION DETAIL

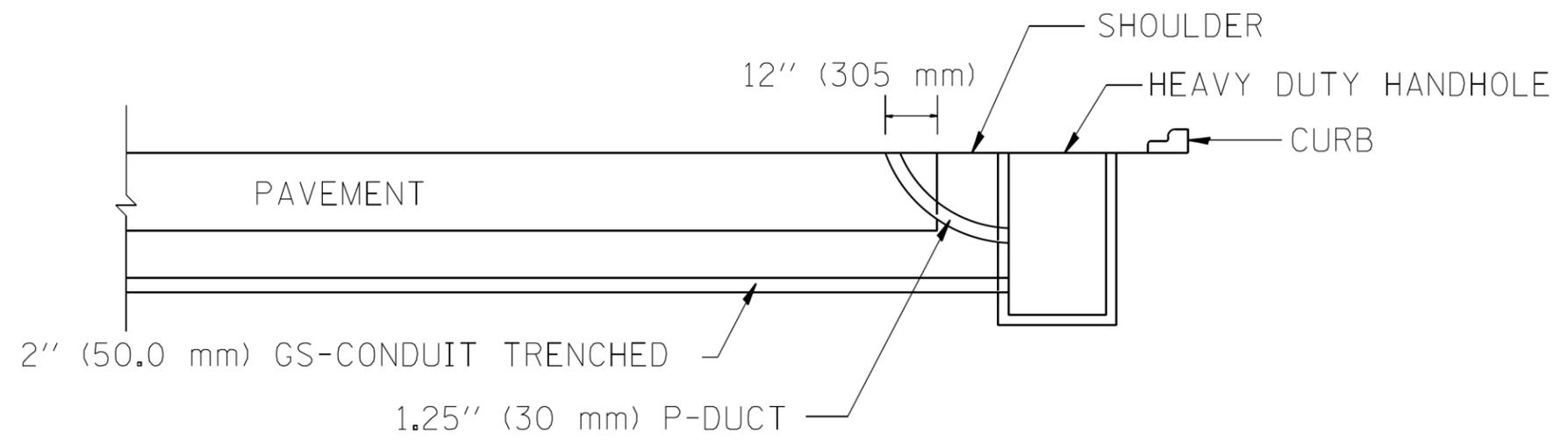
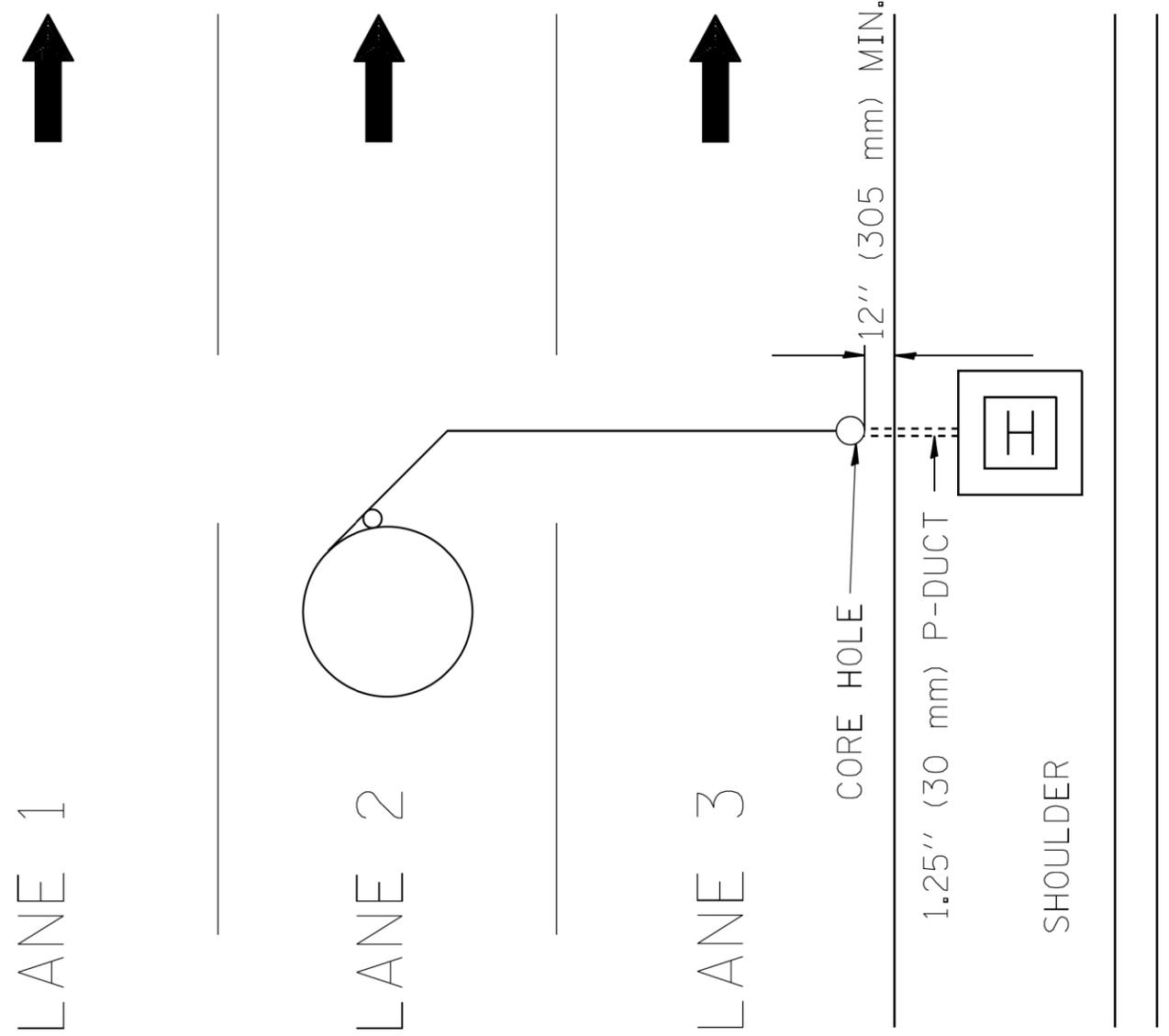
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.



LOOP SPLICING REQUIREMENTS

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 6/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	EXISTING ROUND INDUCTION LOOP TYPICALS		F.A.I. R.T.E. 80855	SECTION (99-182)PP-1	COUNTY WILL	TOTAL SHEETS 24	SHEET NO. 14
Default	PLOT SCALE = 100.0000' / in.	CHECKED - R.L.	REVISED - R.L. 03/2011		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 62G33	
	PLOT DATE = 3/20/2018	DATE - 6-22-94	REVISED -		TRAFFIC SYSTEMS CENTER (TY-1TSC-418#2)						



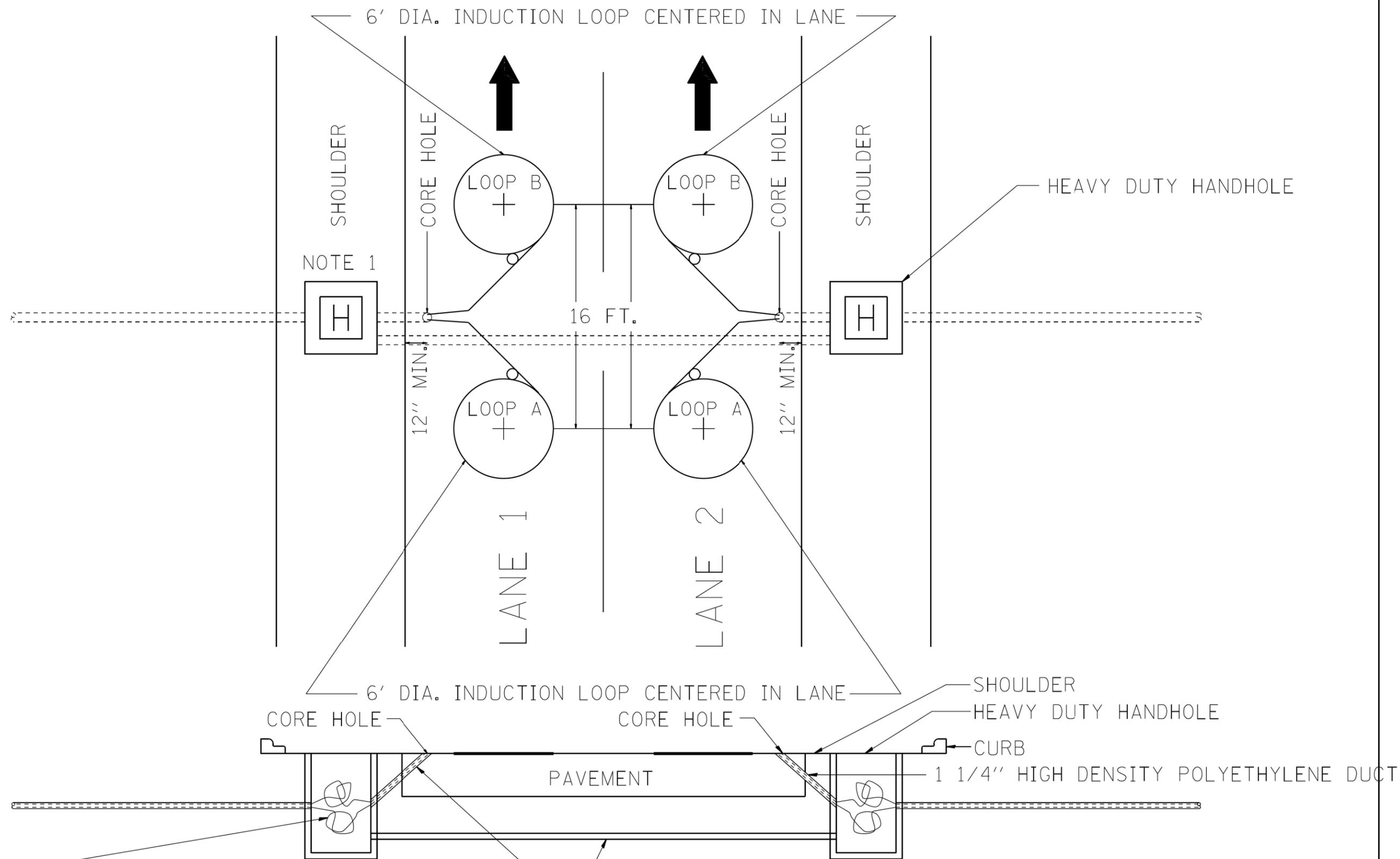
FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - R.L.
pw\11084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Traffic Systems Center\GIS Data\Electrical\TY-1TSC-418.dgn		DRAWN - R.L.	REVISED - T.C.
Default	PLOT SCALE = 100.0000' / in.	CHECKED - R.L.	REVISED -
	PLOT DATE = 3/20/2018	DATE - 11/7/95	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

DIVE HOLE DUCT SYSTEM

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80&55	(99-1&2)PP-1	WILL	24	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G33	

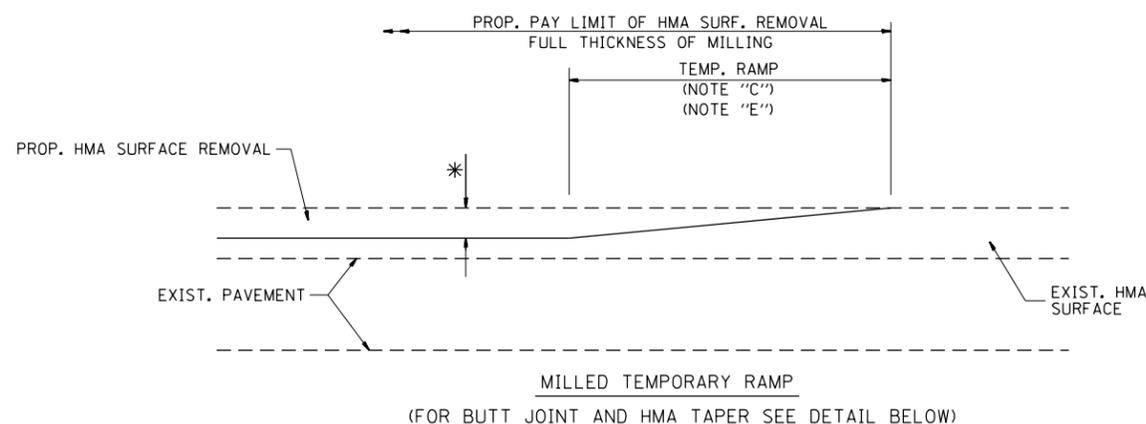


LOOP WIRE IF > 150FT. TO CABINET SPLICE
4C #18 TWISTED SHIELDED TO LOOP WIRE.

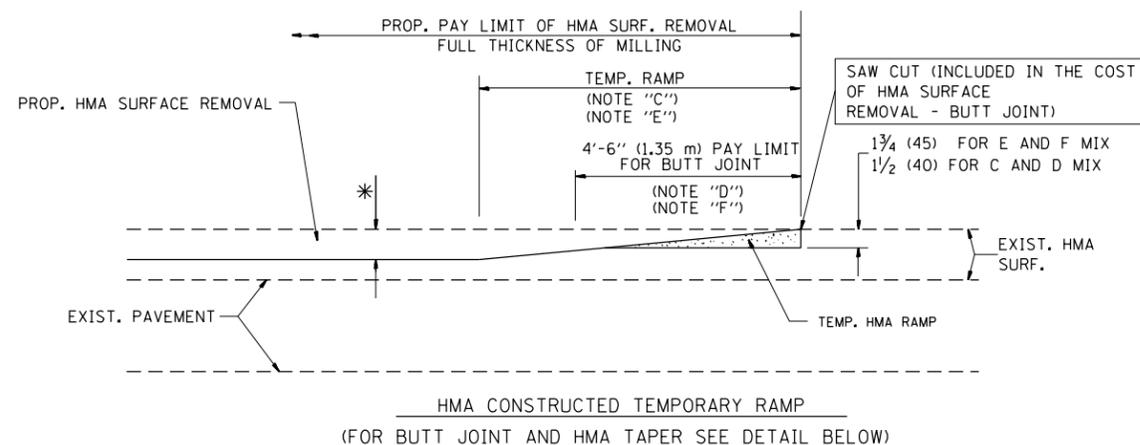
2" GALVANIZED STEEL CONDUIT PUSHED OR DIRECTIONAL BORED
1 1/4" HIGH DENSITY POLYETHYLENE DUCT

NOTE 1: IF HDHH NOT POSSIBLE THEN LANE 1 LOOPS USE SAME CORE HOLE AS LANE 2 LOOPS. IN THE OTHER DIRECTION,
LANE 2 LOOPS WILL USE SAME CORE HOLE AS LANE 1 LOOPS.

FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED - 07/27/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TRAFFIC SURVEILLANCE 2 LANE SPEED, COUNT, CLASSIFICATION STATION		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PL0T SCALE = 100.0000' / in.	CHECKED - J.G.	REVISED -				80&55	(99-1&2)PP-1	WILL	24	17
	PL0T DATE = 3/20/2018	DATE - 06/25/2010	REVISED -				CONTRACT NO. 62G33			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

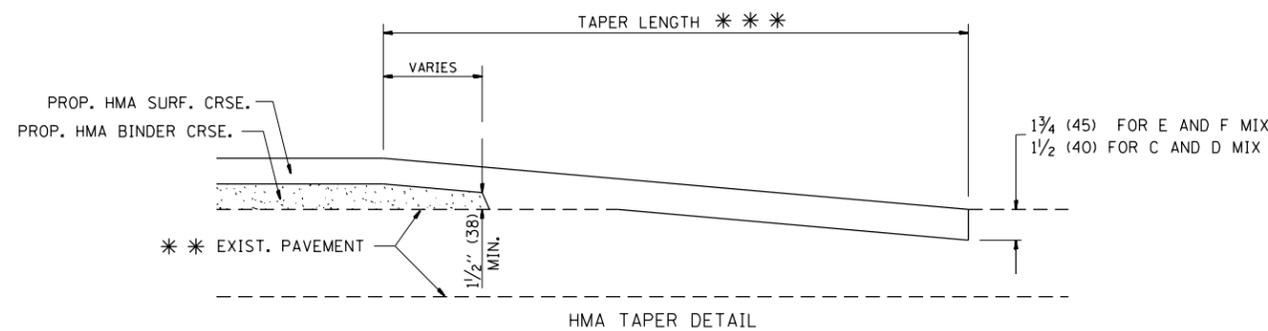
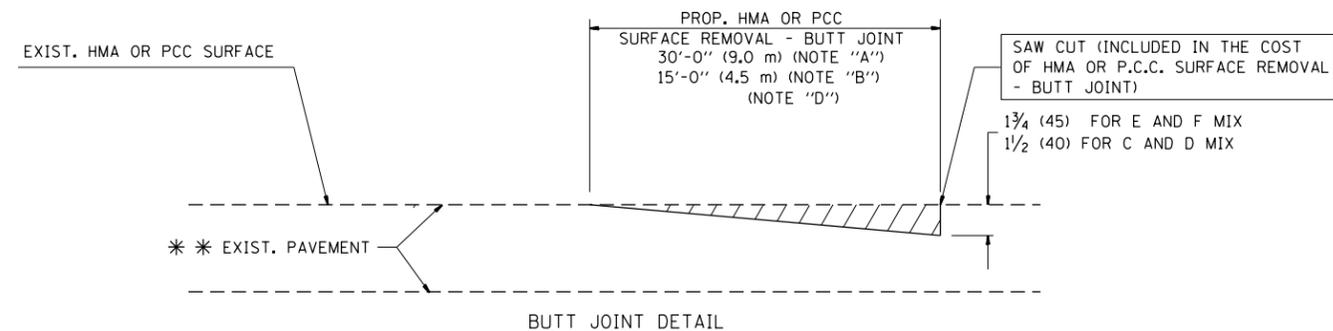


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- 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'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

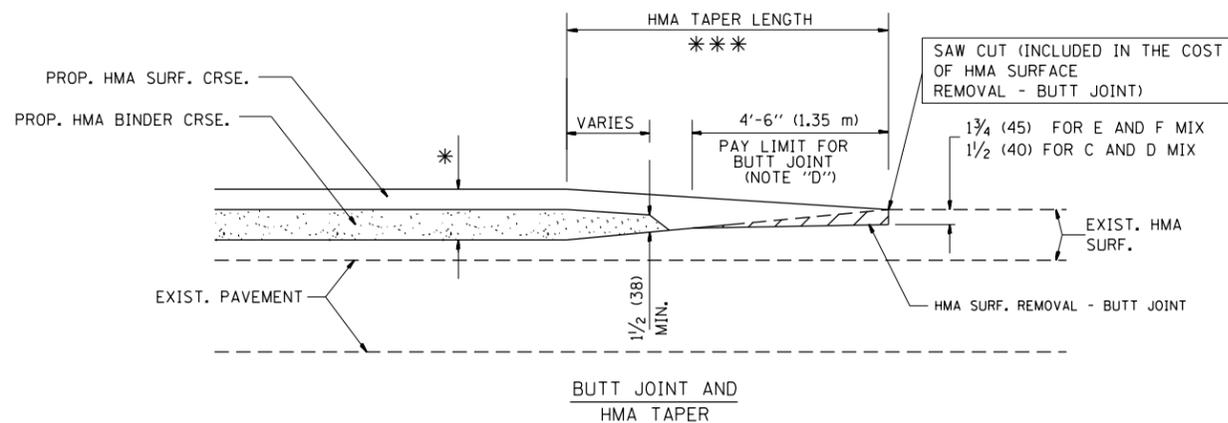
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

* * * 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".

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

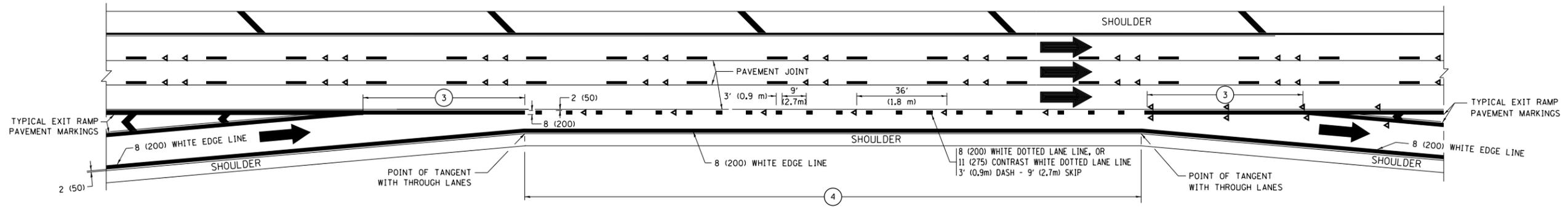
FILE NAME =	USER NAME = pencepl	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\Design\DRAMA\Design\Patching Projects\HMA\REVISED.dgn		DRAMA	A. ABBAS 03-21-97
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 3/29/2018	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

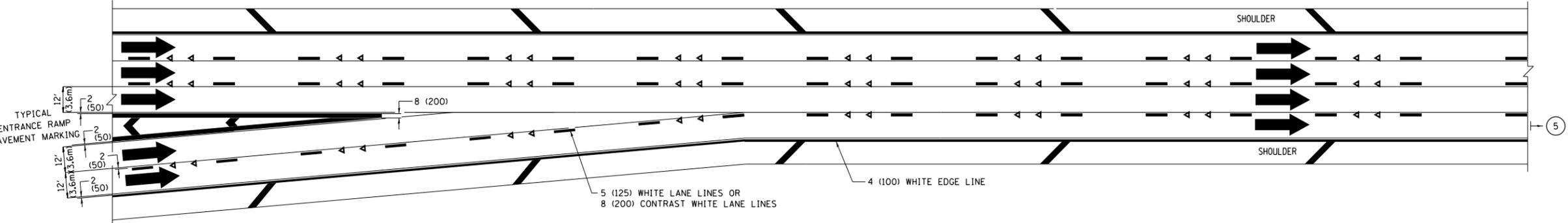
**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

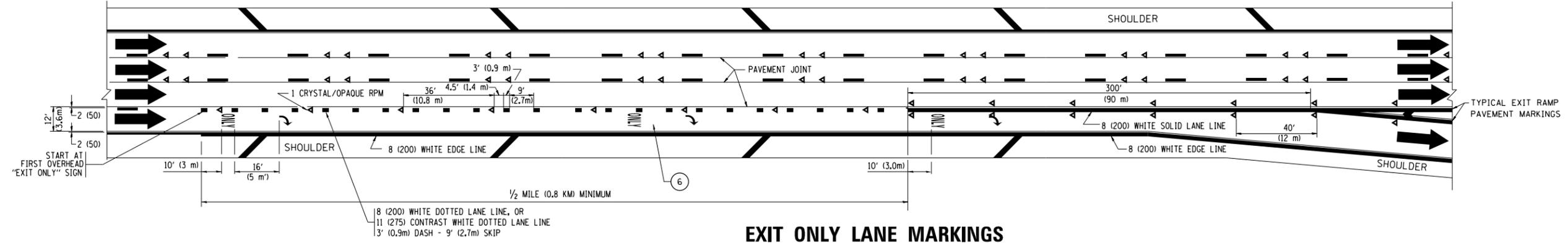
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55&80	(99-1&2)PP-1	COOK & WILL	24	18
BD400-05 BD32		CONTRACT NO. 62G33		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



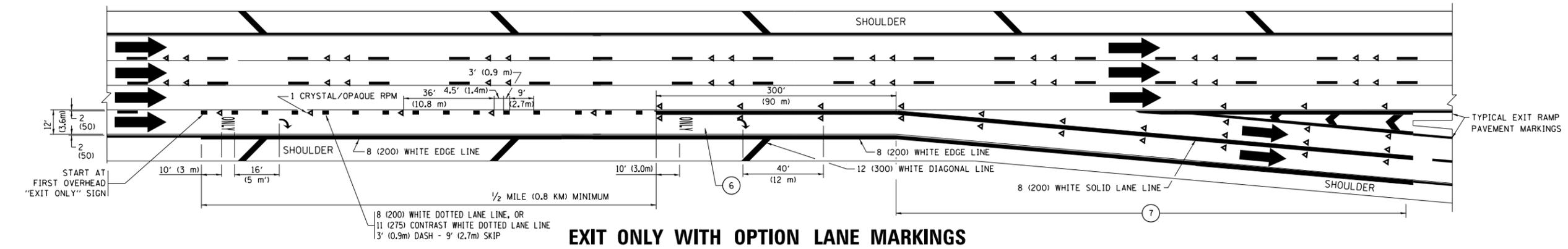
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



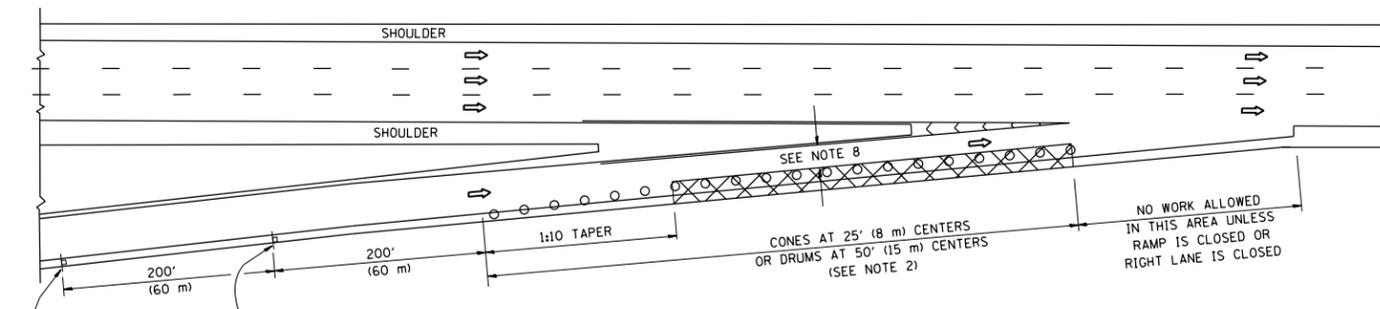
EXIT ONLY LANE MARKINGS



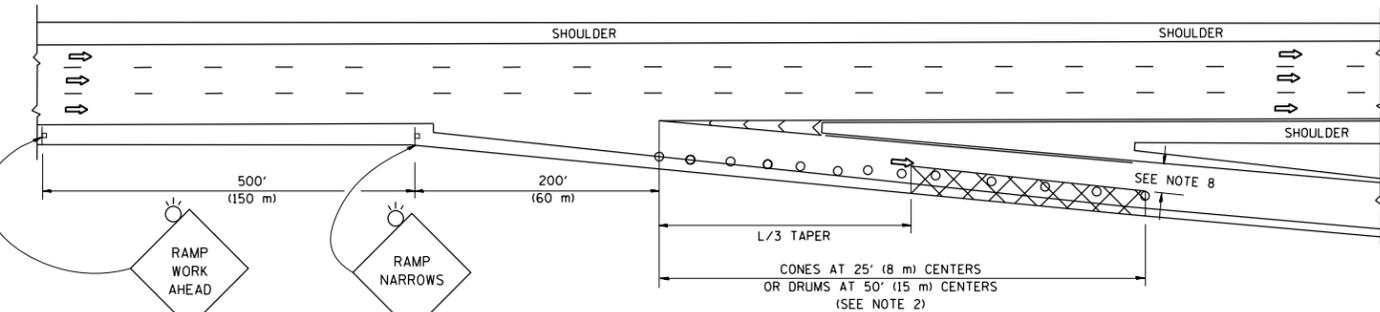
EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

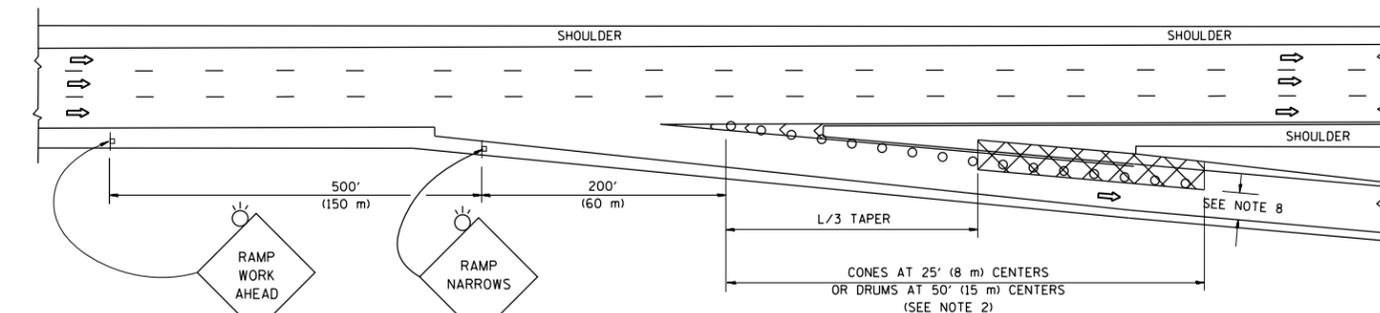
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

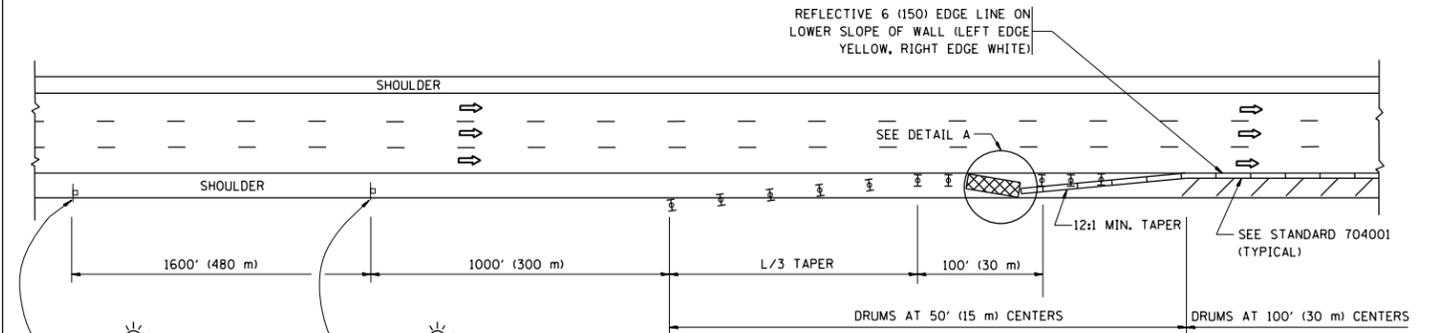
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

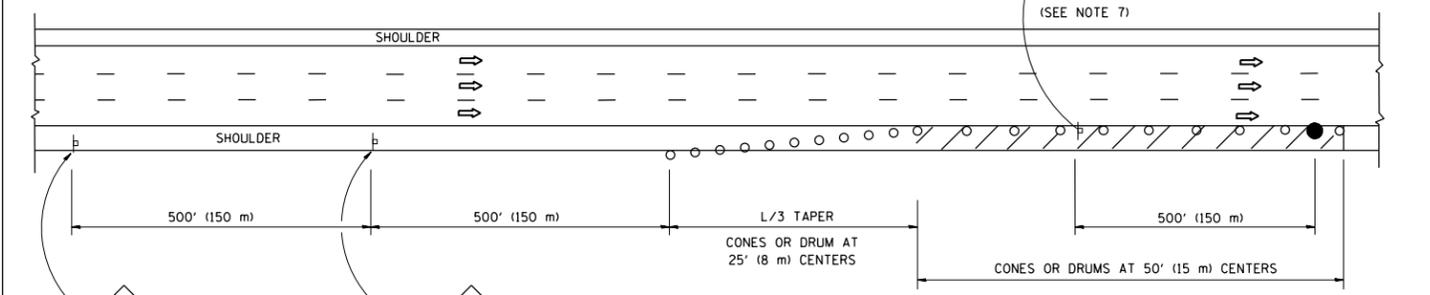
SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

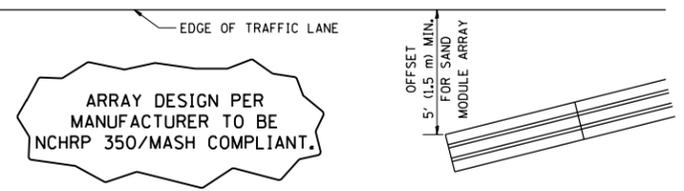


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUSH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCRUSHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
 16' MIN. WIDTH CURVE SECTION.

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

FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED - S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Design\Drawings\Design\AUS\Eng Projects\HMA\REVISED.dgn	DRAWN to Design\AUS\Eng Projects\HMA\REVISED.dgn	DESIGNED -	REVISED - S.P.B. 12-09			55880	(99-1&2)PP-1	COOK & WILL	24	23
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M.D. 06-13			TC-17		CONTRACT NO. 62G33		
	PLOT DATE = 3/29/2018	DATE - 11-96	REVISED - M.D. 01-18			SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

