

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.U. ROUTE 2706: IL 43 (WAUKEGAN RD.)
LOC. 1) N. OF LAKE COOK RD. TO OSTERMAN AVE.
LOC. 2) DEERFIELD HIGHSCHOOL TO IL 22
SECTION: (AY&BY)RS-2
RESURFACING
LAKE COUNTY
C-91-511-12

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2706	(AY&BY)RS-2	LAKE	20	1
		ILLINOIS	CONTRACT NO. 60V04	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGE OF DEERFIELD.

TRAFFIC DATA - LOC. 1

ADT (2013) = 27,400

POSTED SPEED LIMIT = 40 MPH

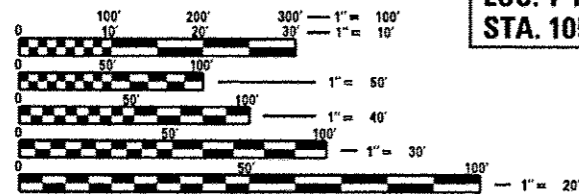
TRAFFIC DATA - LOC. 2

ADT (2013) = 12,400

POSTED SPEED LIMIT = 45 MPH



LOC. 2 IMPROVEMENT ENDS STA. 281 + 54
LOC. 2 IMPROVEMENT BEGINS STA. 227 + 27
LOC. 1 IMPROVEMENT ENDS STA. 136 + 00
LOC. 1 IMPROVEMENT BEGINS STA. 105 + 47

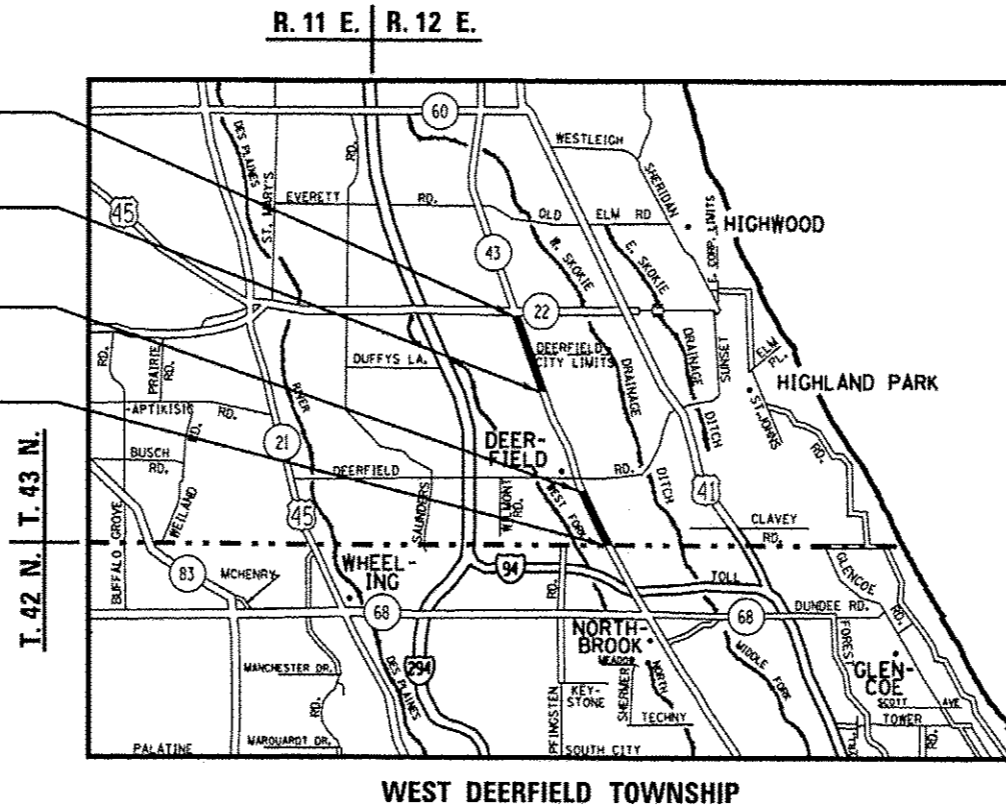


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 60V04



GROSS LENGTH = 17,607 FT. = 3.335 MILE
NET LENGTH = 10,305 FT. = 1.952 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED May 16 2014
John Fortman, Esq.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
June 27 2014
John D. Baranzelli, PE
ENGINEER OF DESIGN AND ENVIRONMENT
June 27 2014
Omer Osman, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3-4.	SUMMARY OF QUANTITIES
5-7.	TYPICAL SECTIONS
8-9.	ROADWAY & PAVEMENT MARKING PLANS (LOC. 1)
10-12	ROADWAY & PAVEMENT MARKING PLANS (LOC. 2)
13-18.	DETECTOR LOOP REPLACEMENT PLANS
19.	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
20.	PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT (BD-22)
21.	CURB OR CURB AND CUTTER REMOVAL AND REPLACEMENT (BD-24)
22.	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
23.	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
24.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
25.	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TC-14)
26.	PAVEMENT MARKING LETTER AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
27.	ARTERIAL ROAD INFORMATION SIGNING (TC-22)
28.	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STATE STANDARDS

STANDARD NO	DESCRIPTION
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424021-02	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701101-04	OFF ROAD MOVING OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701426-06	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER. FOR SPEEDS \geq 45 MPH
701427-02	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER. FOR SPEEDS \leq 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN
701602-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES

GENERAL NOTES:

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF DEERFIELD.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

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 40 MPH (80KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND REVISED 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 RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT 847-715-8419 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD 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.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.

THE CONTRACTOR SHALL VERIFY THE EXISTING TYPE/HEIGHT OF EXISTING GUARDRAIL BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL." THE TERMINAL SECTION SHALL MATCH THE HEIGHT OF THE EXISTING GUARDRAIL.

SIDEWALK RAMPS MODIFICATIONS WITHIN THE LIMITS OF THE PROJECT SHALL CONFORM TO THE APPLICABLE HIGHWAY STANDARDS INCLUDED IN THE PLANS.

THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL."

FILE NAME =	USER NAME = pyzanoskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cl:\pwr\work\pwr\d01\pyzanoskirb\08311620	0151112-shs-plan.dgn	DRAWN -	REVISED -					2706	(AY&BY)RS-2	LAKE	28	2
	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60V04	
Default	PLOT DATE = 6/4/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

100% STATE

100% STATE

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE 0005					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE 0005					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	17	17					44201692	CLASS D PATCHES, TYPE II, 4 INCH	SO YD	675	675					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	77	77					44201694	CLASS D PATCHES, TYPE III, 4 INCH	SO YD	250	250					
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4, 75, N50	TON	2114	2114					44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SO YD	75	75					
40600895	CONSTRUCTING TEST STRIP	EACH	1	1					44201725	CLASS D PATCHES, TYPE I, 7 INCH	SO YD	25	25					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	193	193					44201729	CLASS D PATCHES, TYPE II, 7 INCH	SO YD	225	225					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2	2					44201733	CLASS D PATCHES, TYPE III, 7 INCH	SO YD	125	125					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1336	1336					44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SO YD	75	75					
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	3462	3462					60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	25	25					
42001300	PROTECTIVE COAT	SO YD	256	256					* 63100167	TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT	EACH	2	2					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	900	900					63200310	GUARDRAIL REMOVAL	FOOT	100	100					
42400800	DETECTABLE WARNINGS	SO FT	264	264					* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	15	15					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	15,914	15,914					67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4					
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	35318	35318					* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	17	17					67100100	MOBILIZATION	L SUM	1	1					
44000600	SIDEWALK REMOVAL	SO FT	900	900					* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1					
44201690	CLASS D PATCHES, TYPE I, 4 INCH	SO YD	30	30					70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1					
									70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					
									70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1					
									70300100	SHORT TERM PAVEMENT MARKING	FOOT	96690	96690					

* SPECIALTY ITEMS

FILE NAME	USER NAME	DESIGNED	REVISOR	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES				FALL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN	REVISOR									2706	1478BYRS-2	LAKE	28	3
		CHECKED	REVISOR									CONTRACT NO. 60V04				
		DATE	REVISOR									FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

100% STATE

100% STATE

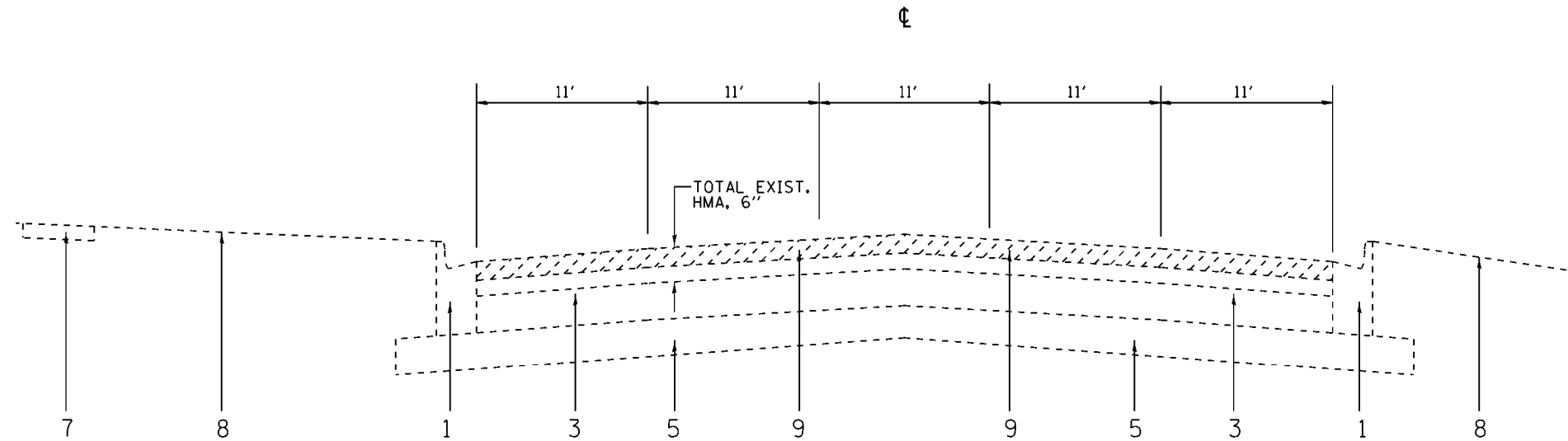
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE 0005					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE 0005					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	50 FT	800.8	800.8					Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	700	700					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	41012	41012					Z0018100	DRAINAGE STRUCTURE ADJUSTMENT (SPECIAL)	EACH	50	50					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2696	2696					Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	130	130					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	660	660					Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	2	2					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	297	297					Z0030850	TEMPORARY INFORMATION SIGNING	50 FT	282.7	282.7					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	50 FT	11883	11883					35501308	HOT-MIX ASPHALT BASE COURSE, 6" SQ YD		17	17					
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	50 FT	691.6	691.6					70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 L SUM		1	1					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	38,320	38,320					70102632	TRAFFIC CONTROL AND PROTECTION STANDARD 701602 L SUM		1	1					
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2696	2696					20201220	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	34	34					
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	660	660					20400800	FURNISHED EXCAVATION	CU YD	34	34					
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	297	297					21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	329	329					
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1291	1291					25000210	SEEDING, CLASS 2A	ACRE	0.68	0.68					
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1291	1291					25000400	NITROGEN FERTILIZER NUTRIENT	POUND	61.2	61.2					
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1840	1840					25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	61.2	61.2					
x4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	34,583	34,583					25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	61.2	61.2					
x5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1150	1150					25100630	EROSION CONTROL BLANKET	SQ YD	329	329					
									48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	30	30					
										* SPECIALTY ITEMS								

Rev.

FILE NAME	USER NAME	DESIGNED	REVISOR	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES				FALL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN	REVISOR									2706	(A) & BYRS-2	LAKE	28	4	
		CHECKED	REVISOR														CONTRACT NO. 60Y04
		DATE	REVISOR									SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

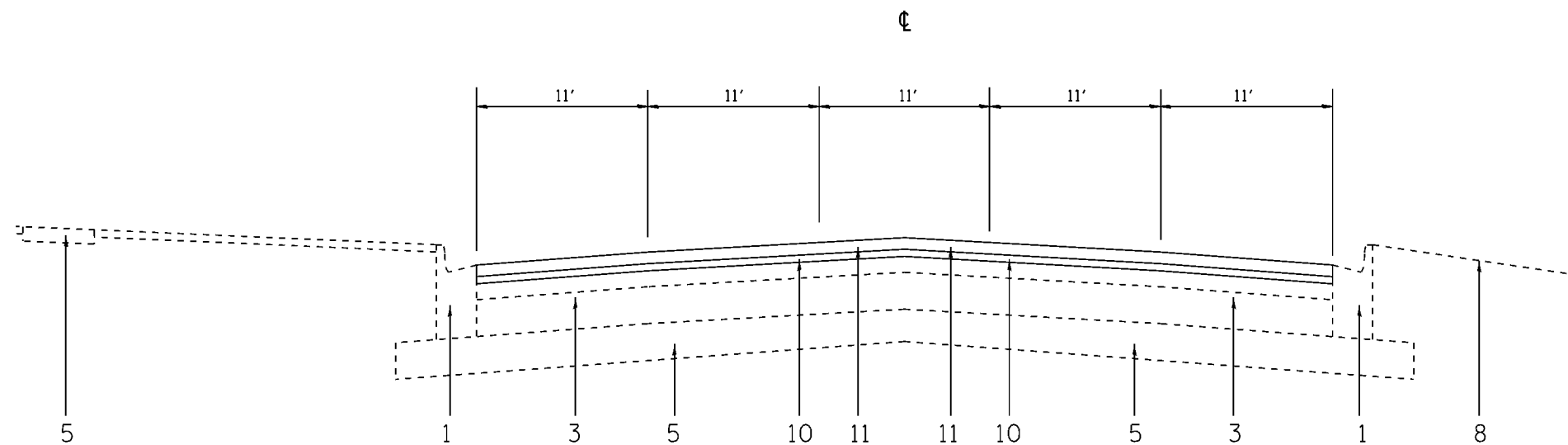
LEGEND

- 1 EXIST. COMB. CURB AND GUTTER, B-6.24
- 2 EXIST. COMB. CURB AND GUTTER, B-6.24 WITH PCC BASE COURSE
- 3 EXIST. PCC BASE COURSE, (±) 9"
- 4 EXIST. PCC BASE COURSE, 9"-7"-9"
- 5 EXIST. AGGREGATE SUB BASE COURSE
- 6 EXIST. REMAINING HMA AFTER MILLING, 7"
- 7 EXIST. PCC SIDEWALK 5"
- 8 EXIST. GRASS PARKWAY
- 9 PROP. HMA SURFACE REMOVAL, 2 1/4"
- 10 PROP. POLYMERIZED LEVELING BINDER (MM), N50, 3/4"
- 11 PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- 12 PROP. HMA SURFACE REMOVAL, 2 1/2"
- 13 PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- 14 PROP. FURNISHING AND PLACING TOPSOIL, 4"
- 15 PROP. SEEDING, SALT TOLERANT, CLASS 2A



HMA MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "F", N90 (IL 9.5 mm)	4% @ 90 GYR	QCP
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 GYR	QCP
POLYMERIZED LEVELING BINDER, (MM), IL 4.75, N50	3.5% @ 50 GYR	QCP
PAVEMENT PATCHING		
CLASS D PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR	QC/QA
PAVEMENT DRIVEWAY		
HMA BASE COURSE 6"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 GYR	QCP
QMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		



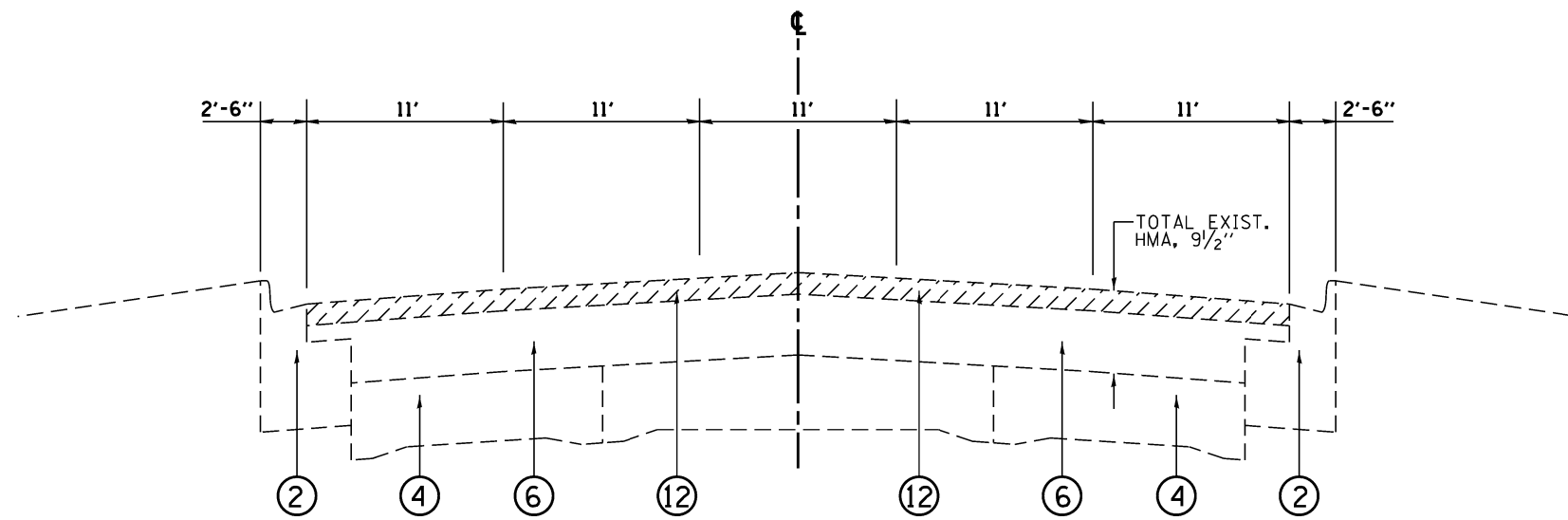
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.

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.

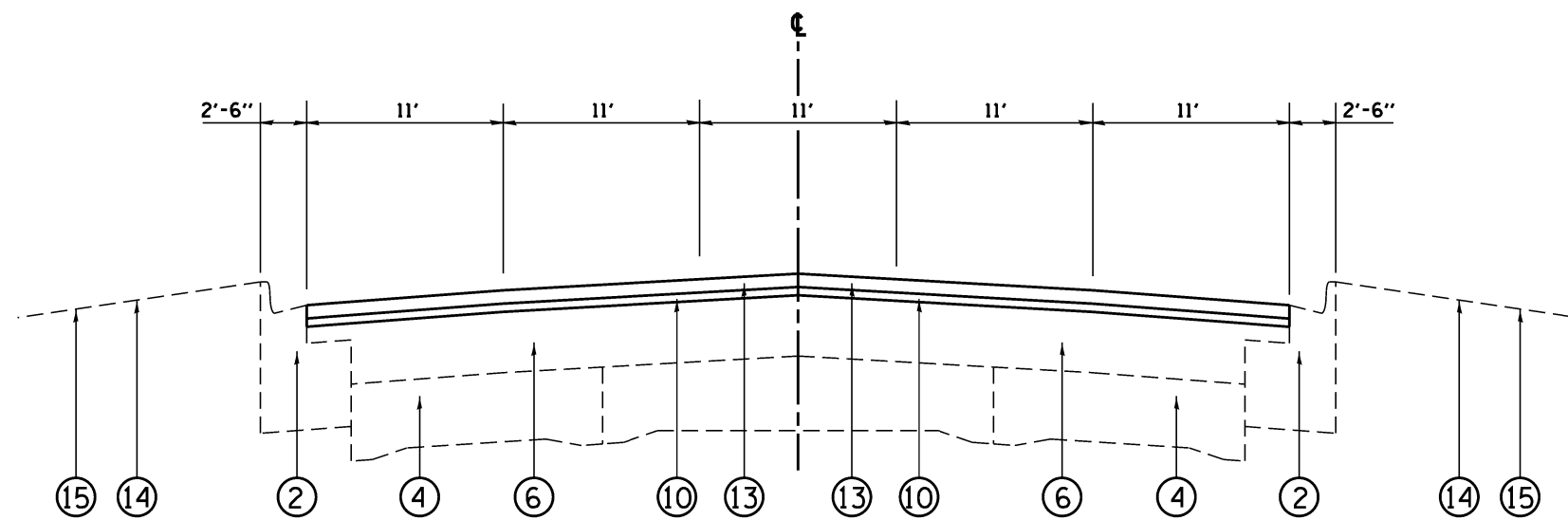
NOTE:
CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

LEGEND

- ① EXIST. COMB. CURB AND GUTTER, B-6.24
- ② EXIST. COMB. CURB AND GUTTER, B-6.24 WITH PCC BASE COURSE
- ③ EXIST. PCC BASE COURSE, (±) 9"
- ④ EXIST. PCC BASE COURSE, 9"-7"-9"
- ⑤ EXIST. AGGREGATE SUB BASE COURSE
- ⑥ EXIST. REMAINING HMA AFTER MILLING, 7"
- ⑦ EXIST. PCC SIDEWALK 5"
- ⑧ EXIST. GRASS PARKWAY
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/4"
- ⑩ PROP. POLYMERIZED LEVELING BINDER (MM), N50, 3/4"
- ⑪ PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑫ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑬ PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑭ PROP. FURNISHING AND PLACING TOPSOIL, 4"
- ⑮ PROP. SEEDING, SALT TOLERANT, CLASS 2A



EXISTING TYPICAL SECTION
IL 43 (WAUKEGAN RD.)
STA. 227+27 TO STA. 259+30

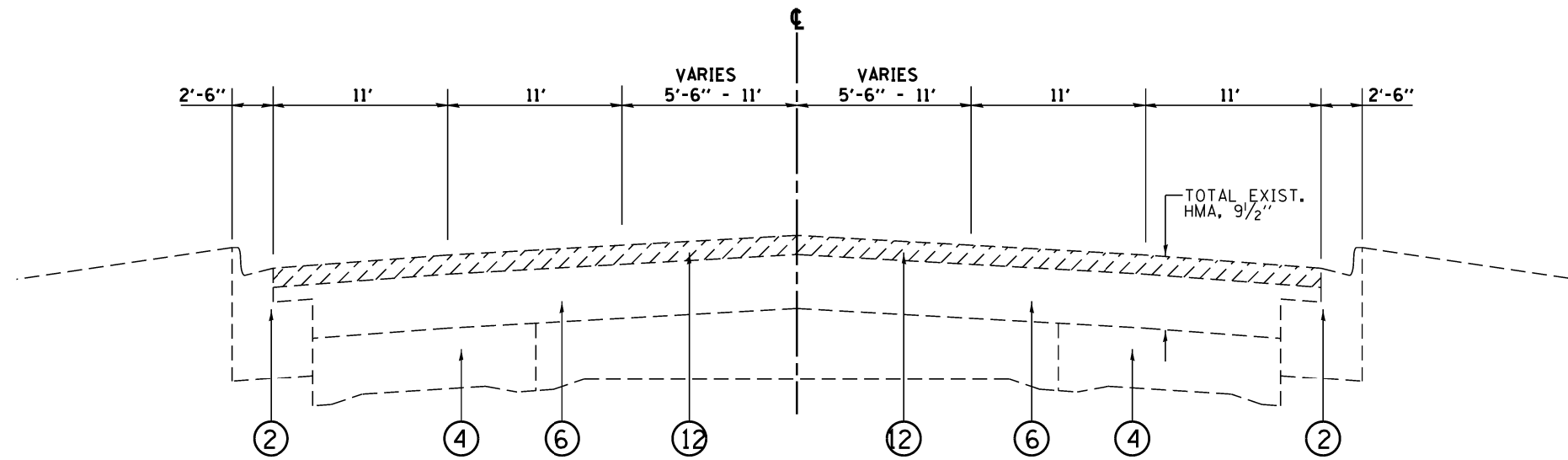


PROPOSED TYPICAL SECTION
IL 43 (WAUKEGAN RD.)
STA. 227+27 TO STA. 259+30

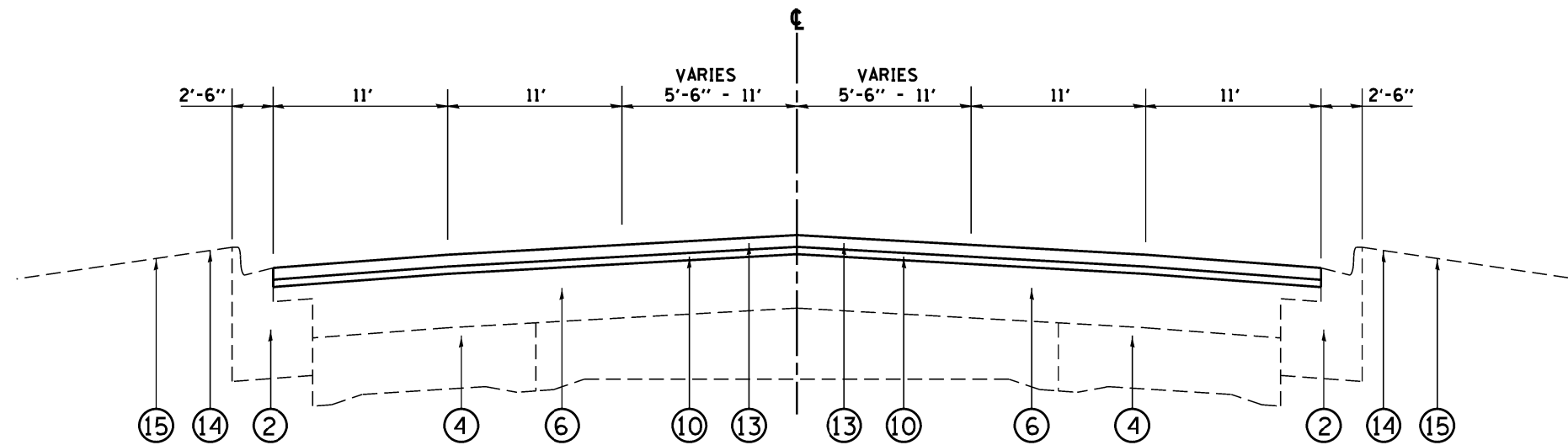
FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 43 (WAUKEGAN RD.) TYPICAL SECTIONS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwork\pwork\pyrzanowskirb\d0311620	D151112-sht-plan.dgn	DRAWN -	REVISED -		IL 22 TO DEERFIELD H.S. & OSTERMAN AVE. TO N. OF LAKE COOK RD.		2706	1A1&BYRS-2	LAKE	28	6	
Default	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 60V04
	PLOT DATE = 5/21/2014	DATE -	REVISED -									ILLINOIS FED. AID PROJECT

LEGEND

- ① EXIST. COMB. CURB AND GUTTER, TYPE B-6.24
- ② EXIST. COMB. CURB AND GUTTER, B-6.24 WITH PCC BASE COURSE
- ③ EXIST. PCC BASE COURSE, (±) 9"
- ④ EXIST. PCC BASE COURSE, 9"-7"-9"
- ⑤ EXIST. AGGREGATE SUB BASE COURSE
- ⑥ EXIST. REMAINING HMA AFTER MILLING, 7"
- ⑦ EXIST. PCC SIDEWALK 5"
- ⑧ EXIST. GRASS PARKWAY
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/4"
- ⑩ PROP. POLYMERIZED LEVELING BINDER (MM), N50, 3/4"
- ⑪ PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑫ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑬ PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑭ PROP. FURNISHING AND PLACING TOPSOIL, 4"
- ⑮ PROP. SEEDING, SALT TOLERANT, CLASS 2A



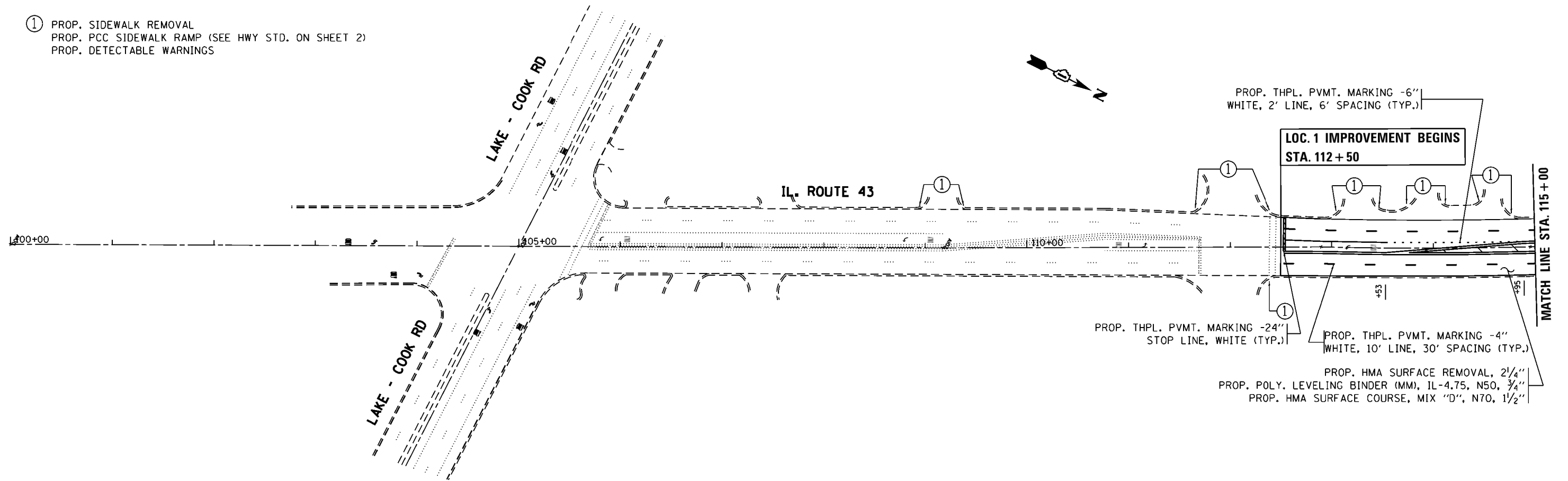
EXISTING TYPICAL SECTION
IL 43 (WAUKEGAN RD.)
STA. 259+30 TO STA. 281+54



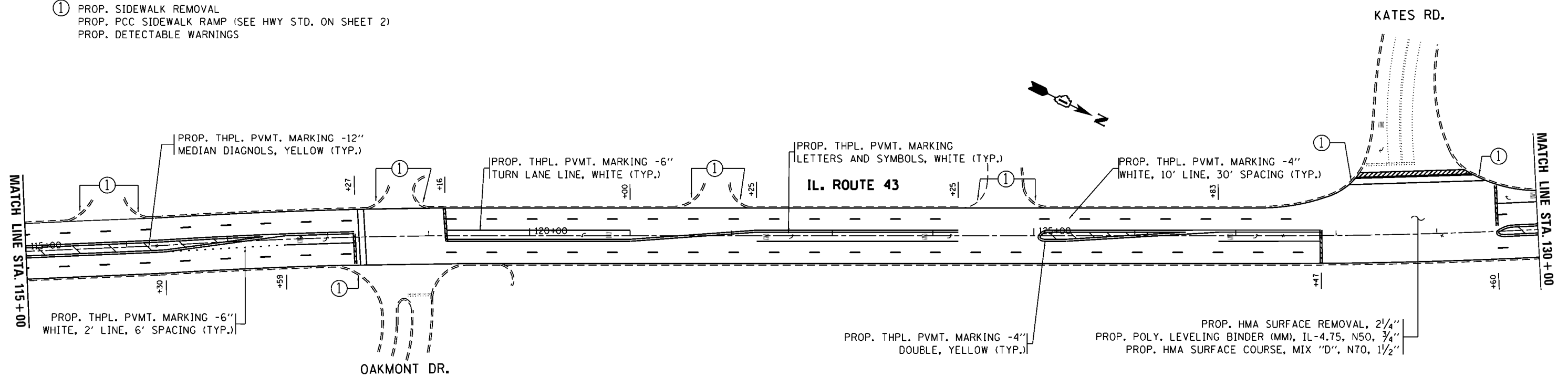
PROPOSED TYPICAL SECTION
IL 43 (WAUKEGAN RD.)
STA. 259+30 TO STA. 281+54

FILE NAME =	USER NAME = pyrzenowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 43 (WAUKEGAN RD.) TYPICAL SECTIONS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\pyrzenowskirb\d0311620	D151112-sht-plan.dgn	DRAWN -	REVISED -		IL 22 TO DEERFIELD H.S. & OSTERMAN AVE. TO N. OF LAKE COOK RD.				2706	1A1&BYRS-2	LAKE	28	7
Default	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 60V04	
	PLOT DATE = 5/21/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

- ① PROP. SIDEWALK REMOVAL
- PROP. PCC SIDEWALK RAMP (SEE HWY STD. ON SHEET 2)
- PROP. DETECTABLE WARNINGS



- ① PROP. SIDEWALK REMOVAL
- PROP. PCC SIDEWALK RAMP (SEE HWY STD. ON SHEET 2)
- PROP. DETECTABLE WARNINGS



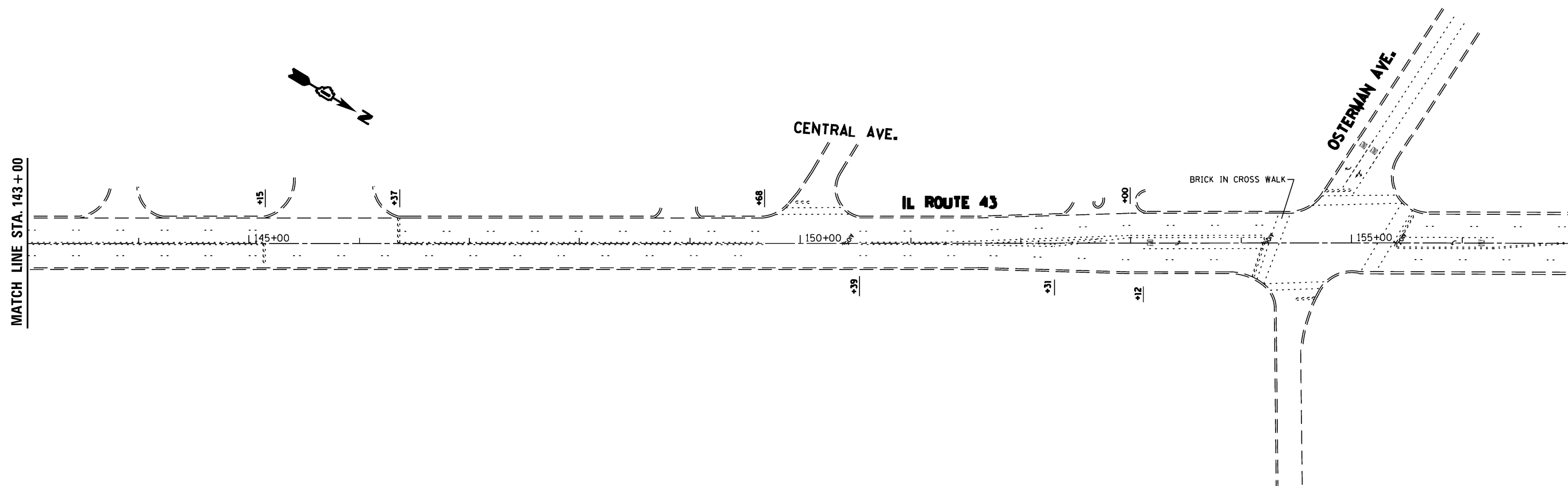
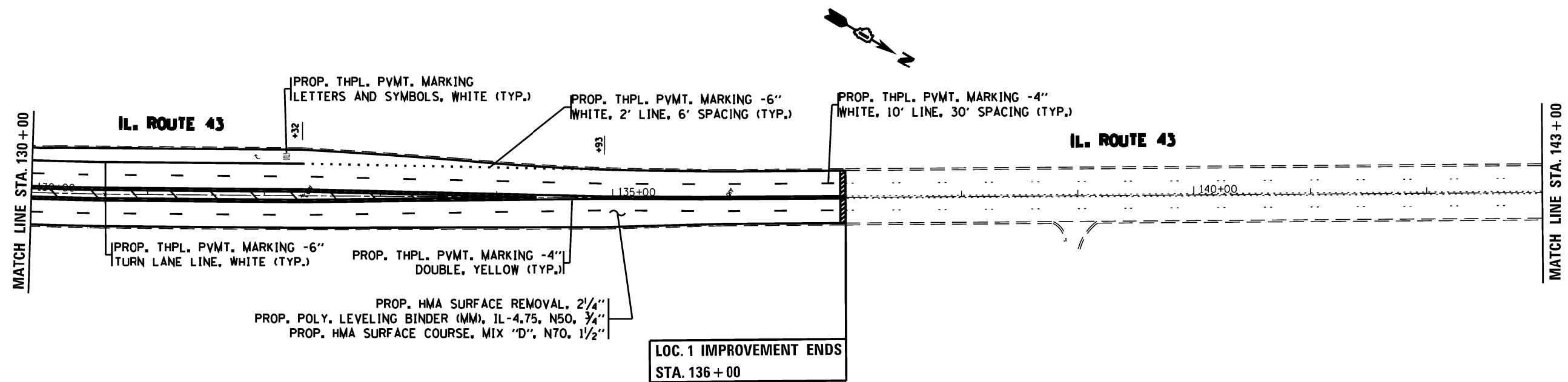
FILE NAME =	USER NAME = pyrozenawskirb	DESIGNED -	REVISED -
ci:\pwwork\pwwork\pyrozenawskirb\0311620	D151112-sh1-plan.dgn	DRAWN -	REVISED -
Default	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/6/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL. ROUTE 43 FROM N. OF LAKE-COOK RD. TO OSTERMAN AVE.

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2706	(AY&BY)RS-2	LAKE	28	8
CONTRACT NO. 60V04			ILLINOIS FED. AID PROJECT	



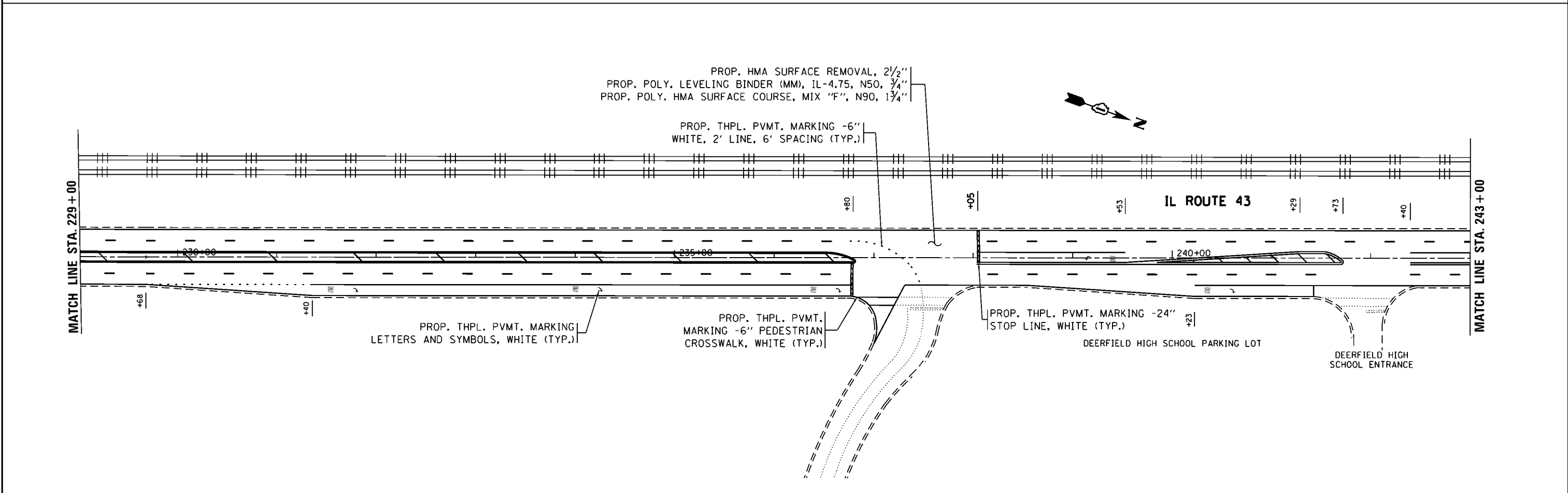
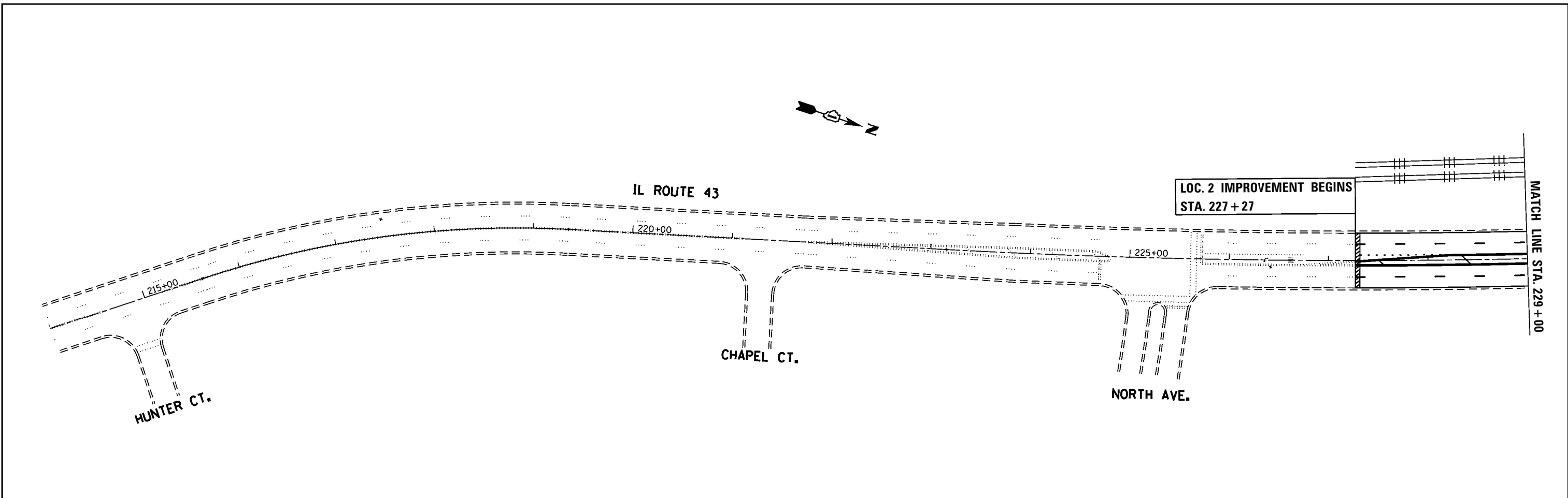
FILE NAME =	USER NAME = pyrzenowskirb	DESIGNED -	REVISED -
ca:\pwr\work\pwidot\pyrzenowskirb\d0311620	D151112-sht-plan.dgn	DRAWN -	REVISED -
Default	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/14/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

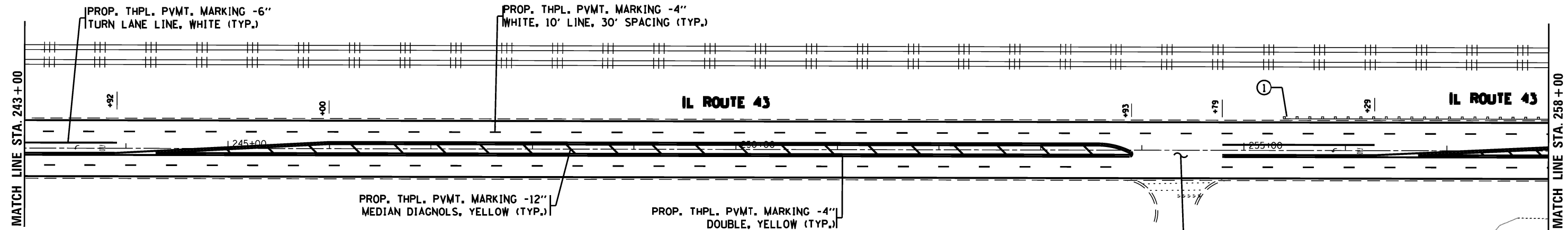
IL. ROUTE 43 FROM N. OF LAKE-COOK RD. TO OSTERMAN AVE.

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2706	1A7&BYRS-2	LAKE	28	9
CONTRACT NO. 60V04			ILLINOIS FED. AID PROJECT	

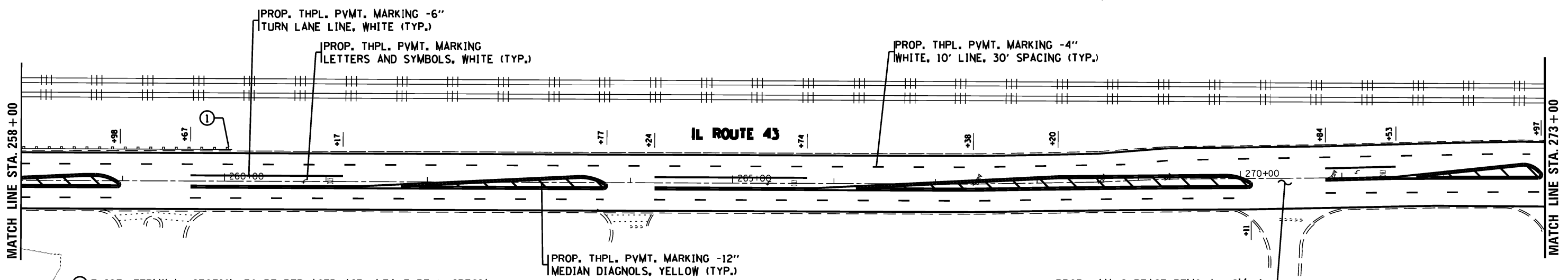


FILE NAME =	USER NAME = pyzzenowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 43 FROM DEERFIELD HIGH SCHOOL TO IL. ROUTE 22.	F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pwork\pwidot\pyzzenowskirb\0311620	D151112-sh1-plen.dgn	DRAWN -	REVISED -			2706	(AY&BY)RS-2	LAKE	28	10	
Default	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60V04					
	PLOT DATE = 6/4/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



① EXIST. TERMINAL SECTION TO BE REPLACED WITH NEW TYPE 1 (SPECIAL) - TANGENT 50 FT LONG. SEE STANDARD 630301 • DISTRICT DETAIL (BD-34).
 OTHER PAY ITEMS WITH QUANTITIES ESTIMATED FOR THIS AREA INCLUDE:
 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
 FURNISHED EXCAVATION
 TOPSOIL FURNISH AND PLACE, 4"
 SEEDING, CLASS 2A
 NITROGEN FERTILIZER NUTRIENT
 PHOSPHEROUS FERTILIZER NUTRIENT
 POTASSIUM FERTILIZER NUTRIENT
 EROSION CONTROL BLANKET
 AGGREGATE SHOULDER, TYPE B - 10"
 GUARDRAIL REMOVAL

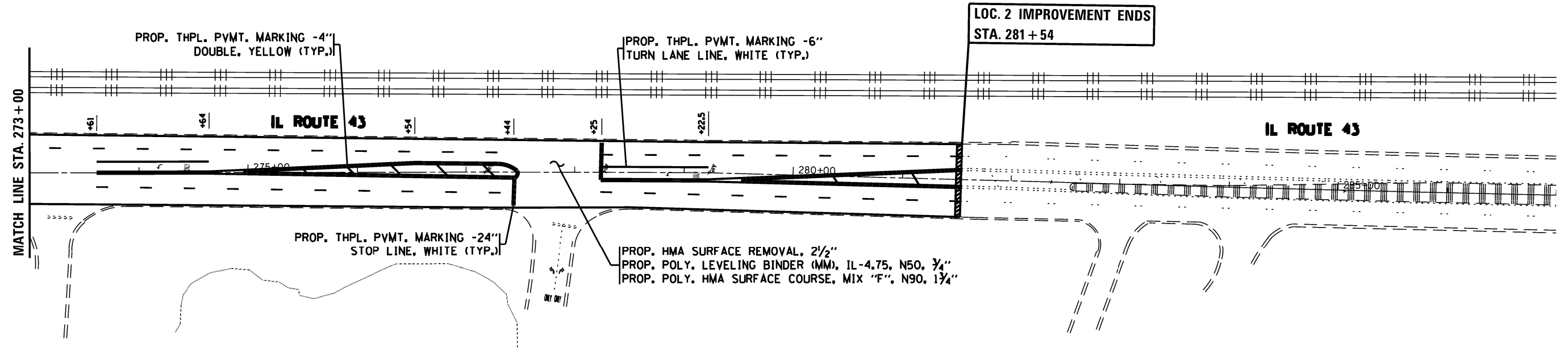
PROP. HMA SURFACE REMOVAL, 2 1/2"
 PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"
 PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"



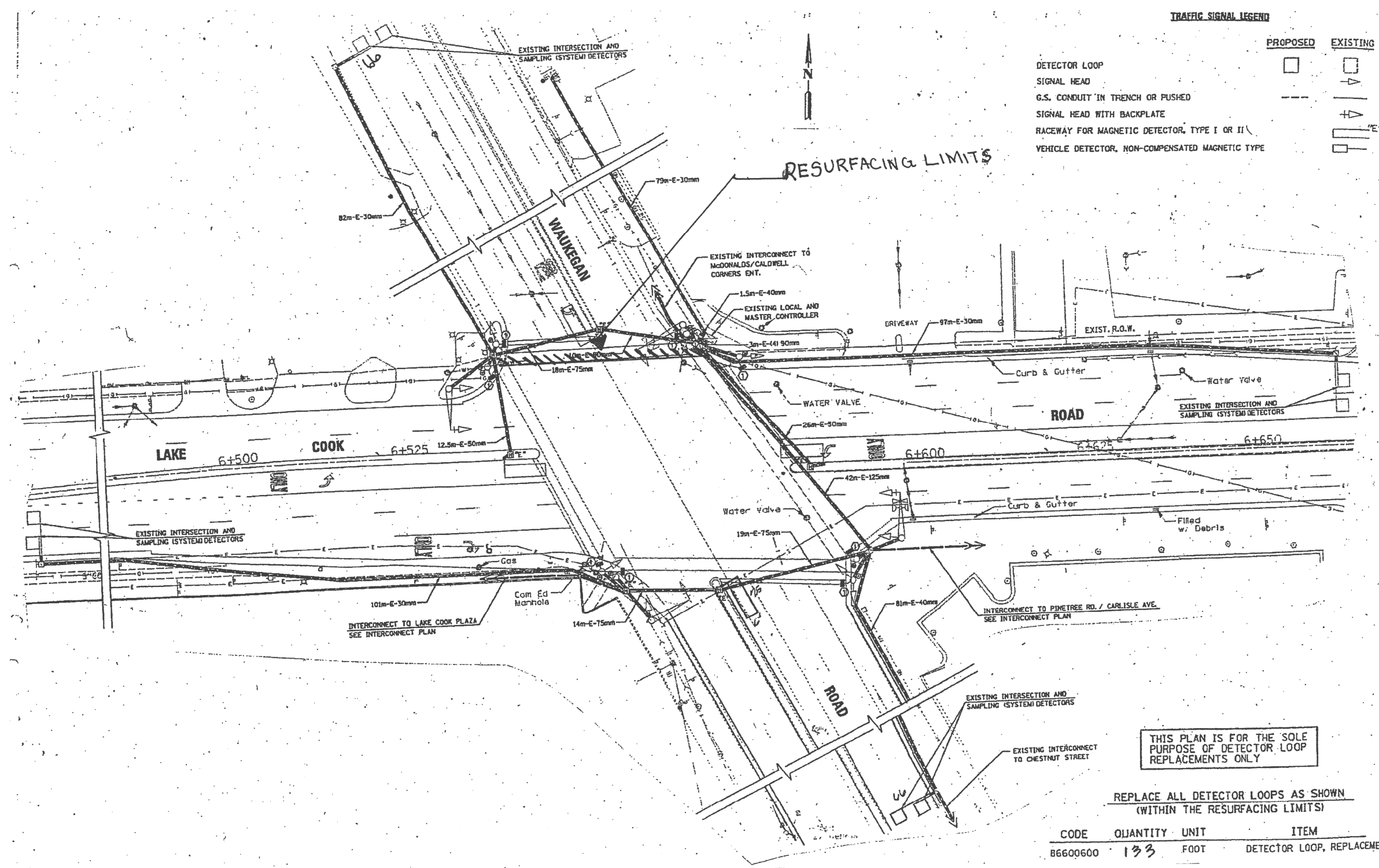
① EXIST. TERMINAL SECTION TO BE REPLACED WITH NEW TYPE 1 (SPECIAL) - TANGENT 50 FT LONG. SEE STANDARD 630301 • DISTRICT DETAIL (BD-34).
 OTHER PAY ITEMS WITH QUANTITIES ESTIMATED FOR THIS AREA INCLUDE:
 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
 FURNISHED EXCAVATION
 TOPSOIL FURNISH AND PLACE, 4"
 SEEDING, CLASS 2A
 NITROGEN FERTILIZER NUTRIENT
 PHOSPHEROUS FERTILIZER NUTRIENT
 POTASSIUM FERTILIZER NUTRIENT
 EROSION CONTROL BLANKET
 AGGREGATE SHOULDER, TYPE B - 10"
 GUARDRAIL REMOVAL

PROP. HMA SURFACE REMOVAL, 2 1/2"
 PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"
 PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"

FILE NAME =	USER NAME = pyrzenowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 43 FROM DEERFIELD HIGH SCHOOL TO IL. ROUTE 22		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwr\work\pwidot\pyrzenowskirb\d0311620	D151112-sht-plan.dgn	DRAWN -	REVISED -				2706	(AY&BY)RS-2	LAKE	28	11
Default	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -				SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 60V04		ILLINOIS FED. AID PROJECT
	PLOT DATE = 5/14/2014	DATE -	REVISED -								



FILE NAME = c:\p\work\p\idot\pyrzenowskirb\0311620	USER NAME = pyrzenowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 43 FROM DEERFIELD HIGH SCHOOL TO IL. ROUTE 22		F.A.J. RTE. 2706	SECTION 1A1&BYRS-2	COUNTY LAKE	TOTAL SHEETS 28	SHEET NO. 12
	PLOT SCALE = 100.000' / 1"	PLOT DATE = 5/14/2014	DRAWN -				REVISED -	SCALE:	SHEET	OF	SHEETS
Default		CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT				



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
DETECTOR LOOP	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

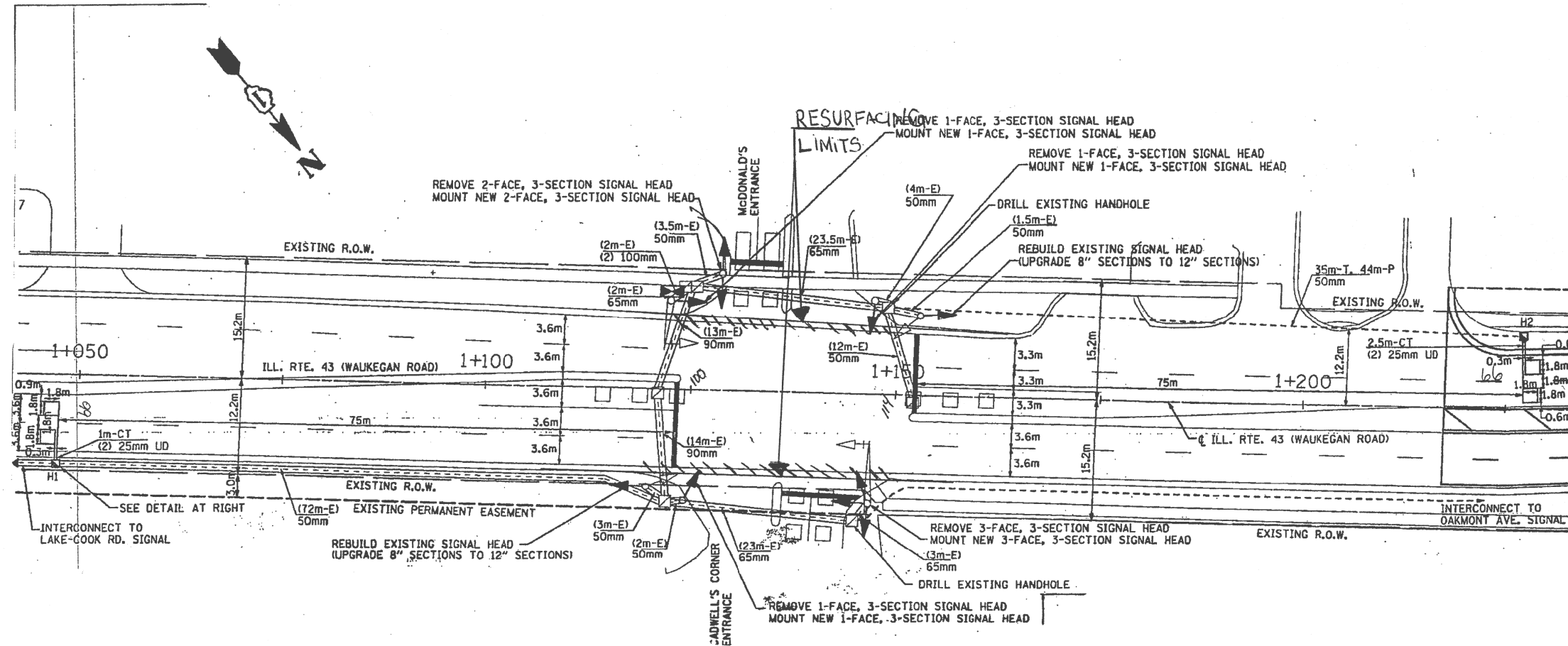
CODE	QUANTITY	UNIT	ITEM
B6600600	133	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = pyrzenowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLANS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwr\work\pwr\dot\pyrzenowskirb\d0311620	D151112-sht-plan.dgn	DRAWN -	REVISED -		SHEET 1 OF 6				2706	1A7&BYRS-2	LAKE	28	13
Default	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 60V04	
	PLOT DATE = 5/14/2014	DATE -	REVISED -									ILLINOIS FED. AID PROJECT	

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

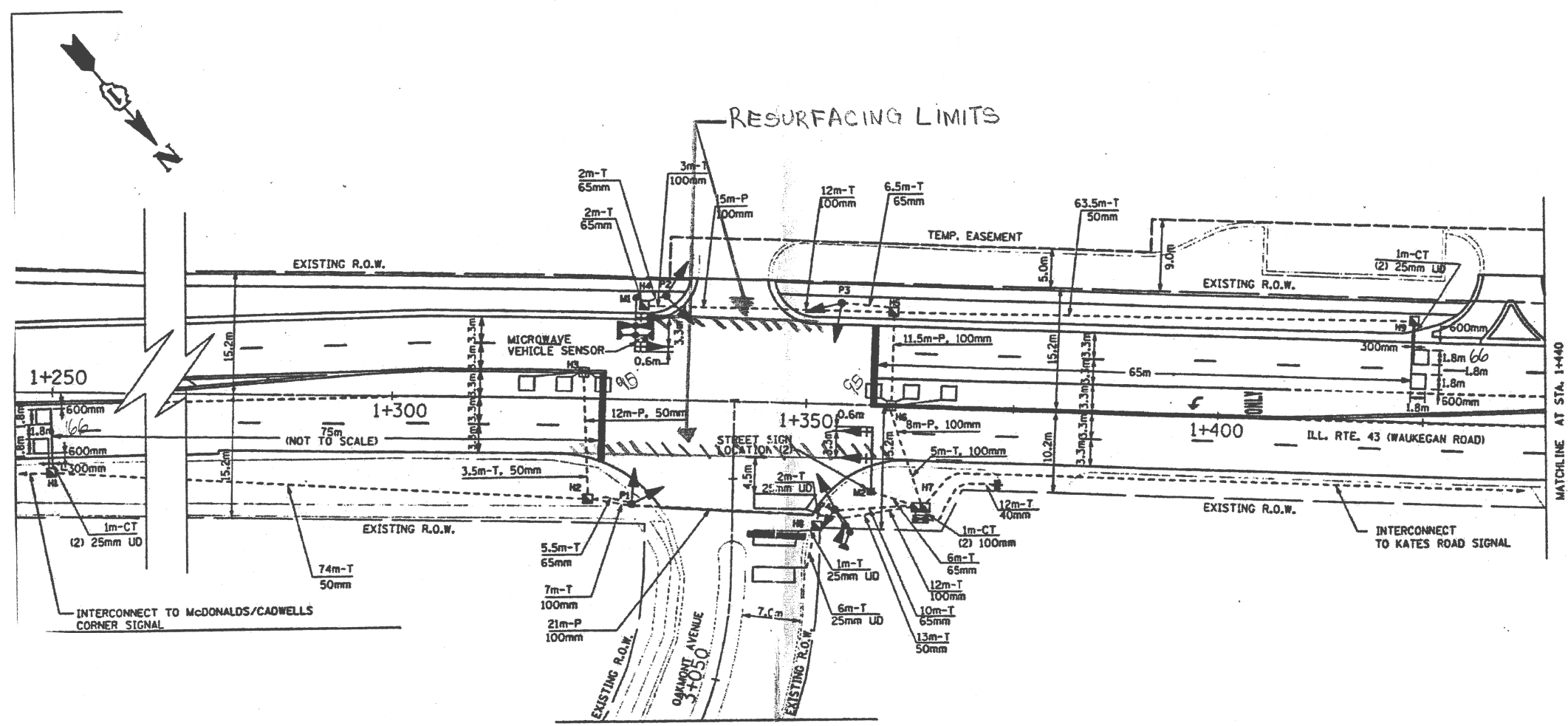
CODE	QUANTITY	UNIT	ITEM
88600600	346	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLANS SHEET 2 OF 6				F.A.U. RTE. 2706	SECTION 1A7&BYRS-2	COUNTY LAKE	TOTAL SHEETS 28	SHEET NO. 14
Default	Plot Scale = 100.000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 60V04	
	PLOT DATE = 5/14/2014	CHECKED -	REVISED -									ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -										

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

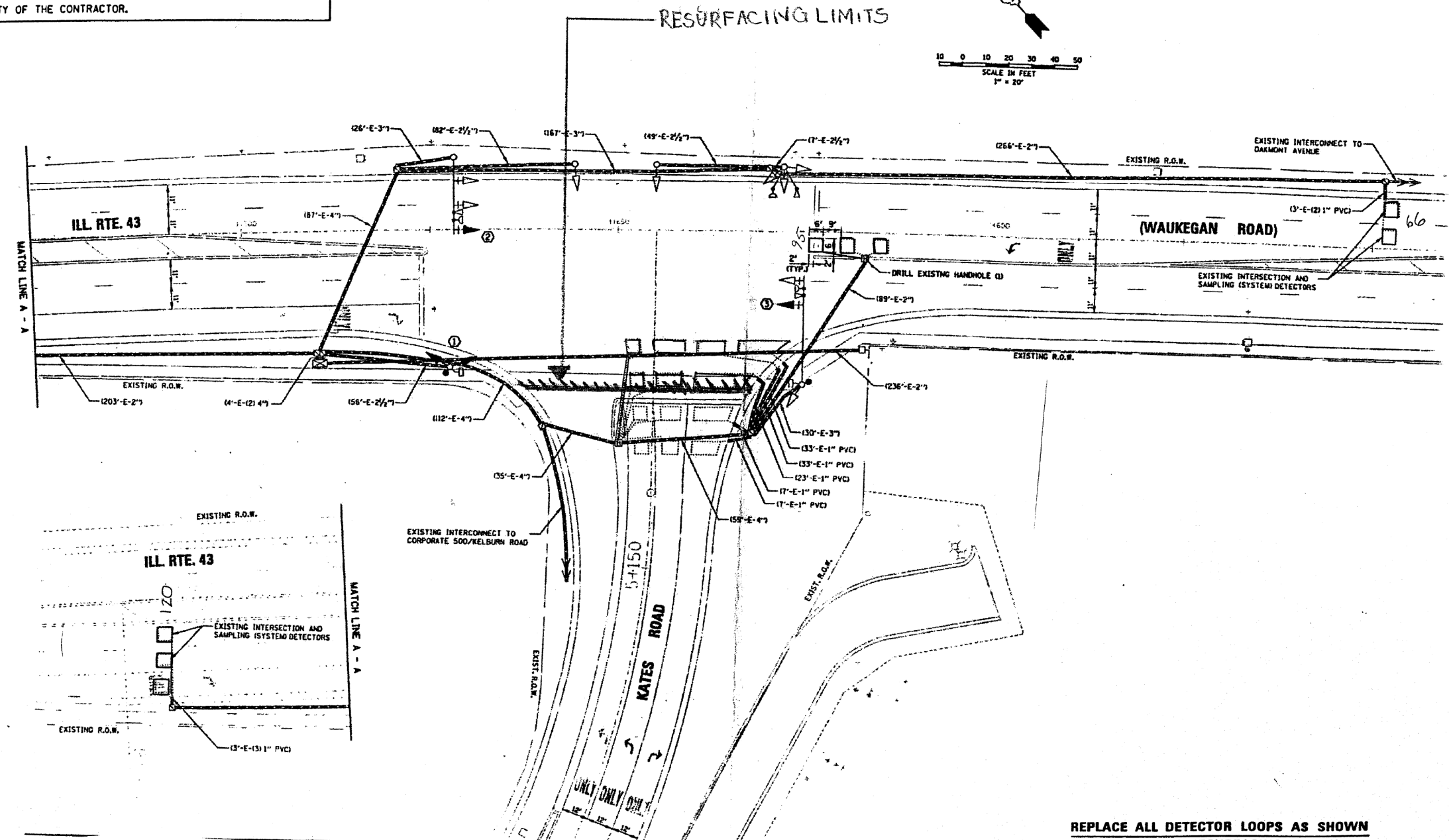
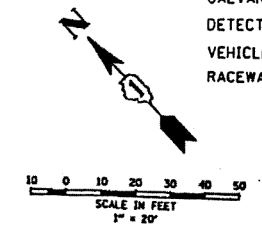
CODE	QUANTITY	UNIT	ITEM
88600600	325	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME :	USER NAME : pyrzenowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLANS SHEET 3 OF 6				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	0151112-sht-plan.dgn	DRAWN -	REVISED -		2706	1A7&BYRS-2	LAKE	28	15				
	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED -		CONTRACT NO. 60V04								
	PLOT DATE = 5/14/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

- | | | |
|--|----------|----------|
| | PROPOSED | EXISTING |
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD | | |
| GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED | | |
| DETECTOR LOOP | | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

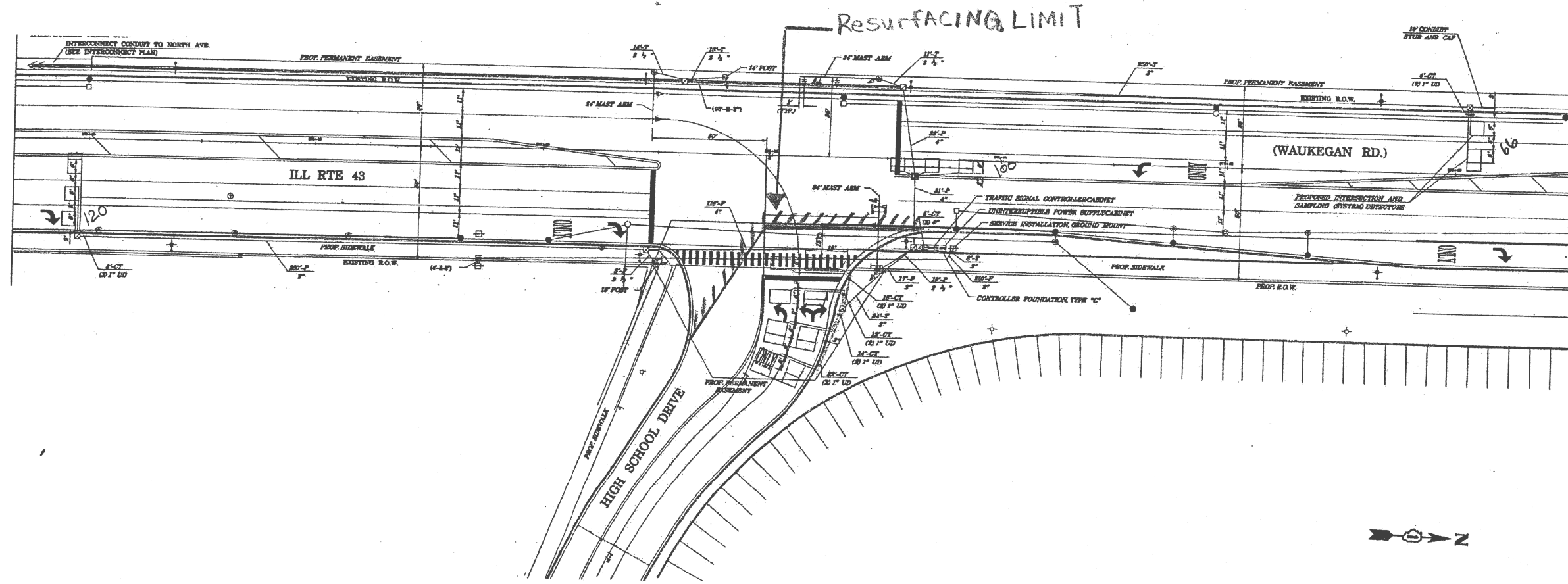
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
88600600	520	FOOT	DETECTOR LOOP, REPLACEMENT

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

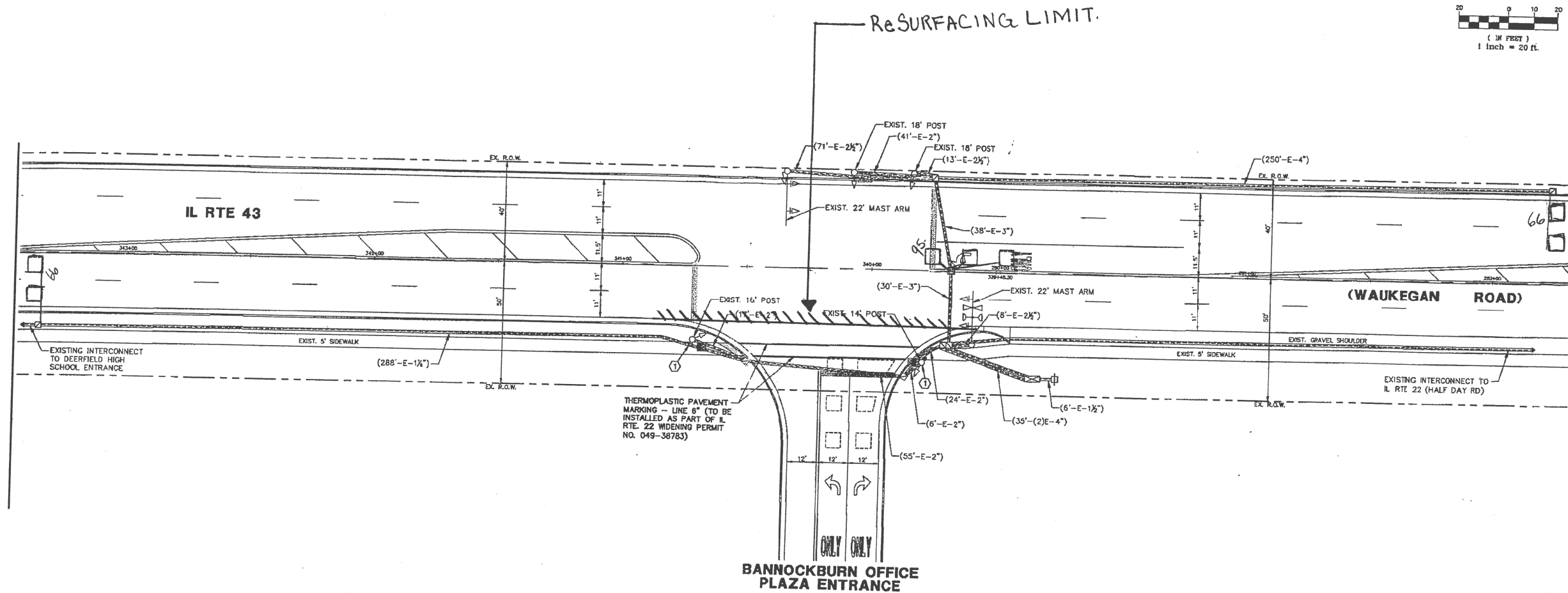
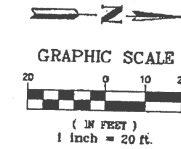
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
88600600	286	FOOT	DETECTOR LOOP, REPLACEMENT

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE	→	→
SIGNAL HEAD	→	→
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED	—	—
DETECTOR LOOP	□	□
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	—	—
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	—	— "E"

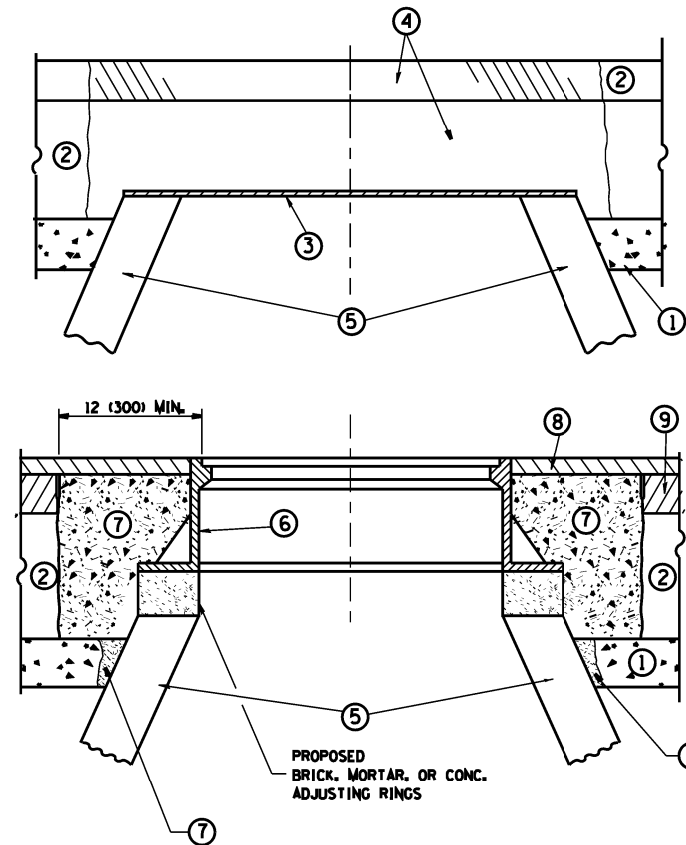


THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
88600600	230	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME :	USER NAME : pyrzanowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLANS SHEET 6 OF 6	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	0151112-sht-plan.dgn	DRAWN -	REVISED -			2706	1AY&BYRS-2	LAKE	28	18	
	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED -			CONTRACT NO. 60V04					
	PLOT DATE = 5/14/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAYEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAYEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAYEMENT 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-1# 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 PAYEMENT 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 MATERIAL
- ② EXISTING PAYEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1# CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- 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 PAYEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAYEMENT 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)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

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 PAYEMENT 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.

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

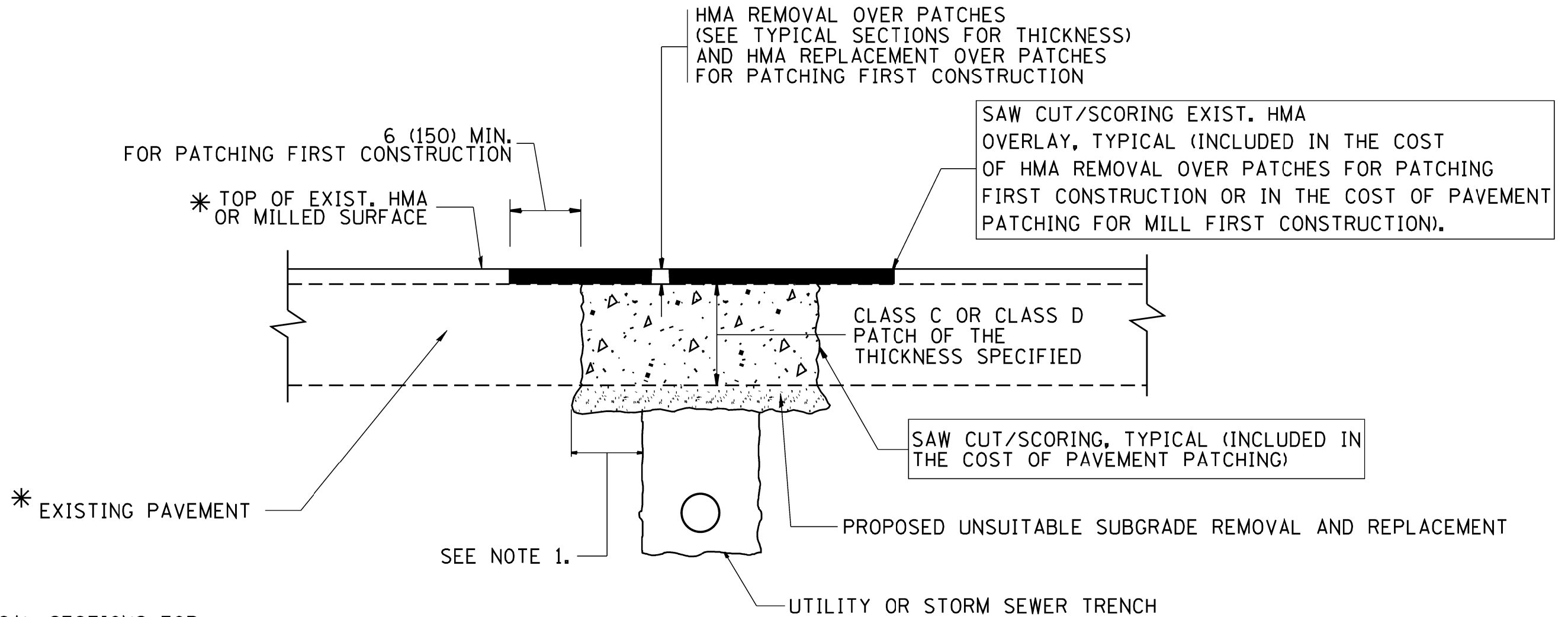
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
ct:\pwr\work\pwr\dot\pyrzanowskirb\d0311620	D151112-sht-plan.dgn	DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.000 / 1 in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 5/14/2014	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR			
FRAMES AND LIDS ADJUSTMENT WITH MILLING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2706	(AY&BY)RS-2	LAKE	28	19
BD600-03 (BD-8)		CONTRACT NO. 60V04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

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

FILE NAME =	USER NAME = pyrzenowskirb	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pr-work\pwidot\pyrzenowskirb\0311620	0151112-sht-plan.dgn	DRAWN -	REVISED - R. BORO 01-01-07					2706	(AY&BY)RS-2	LAKE	28	20
	PLOT SCALE = 100.000 / 1 in.	CHECKED -	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 60V04				
	PLOT DATE = 5/14/2014	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

T/2 *

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

3" (75) MIN.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

* 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.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

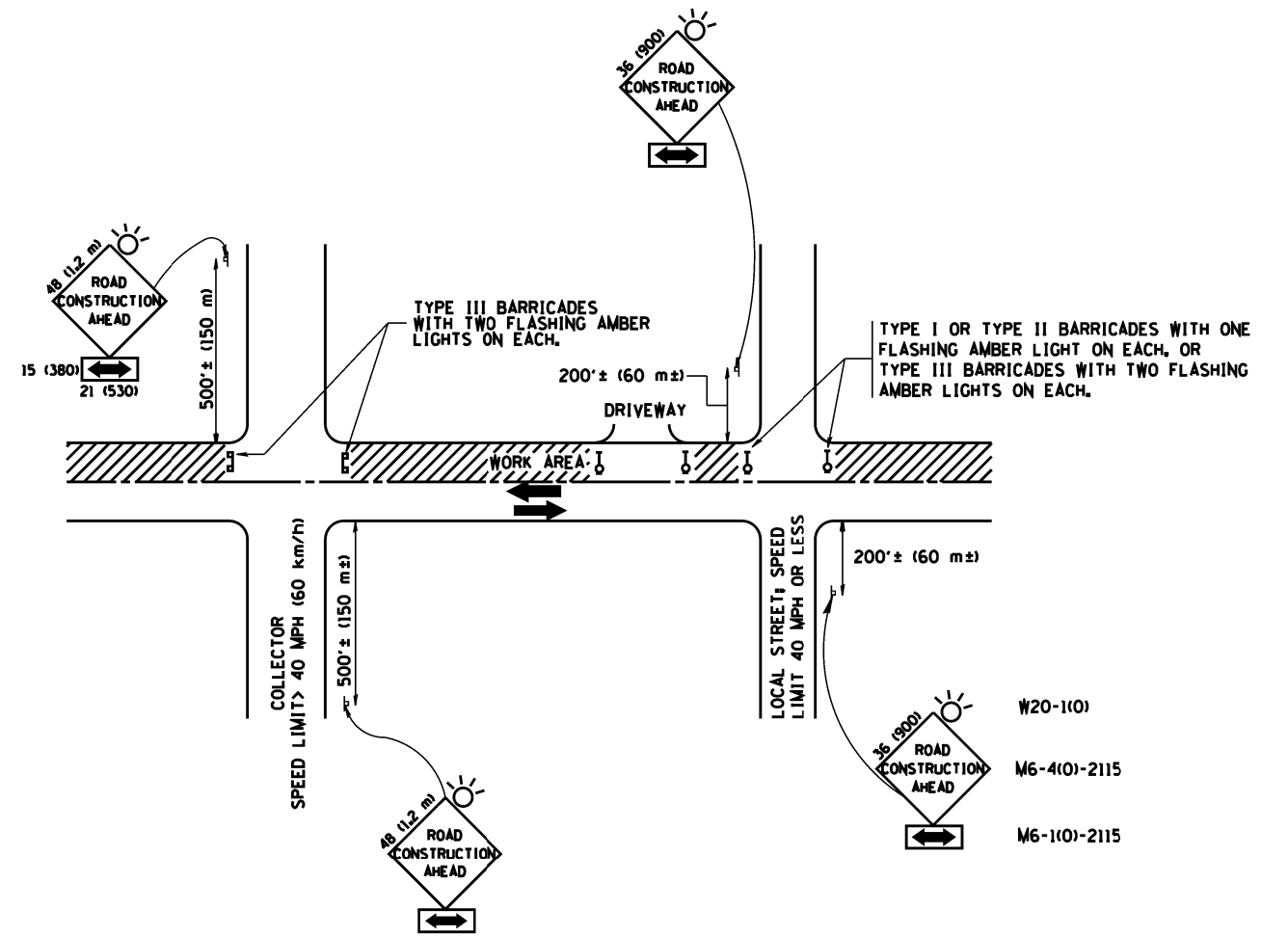
⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME :	USER NAME : pyrzenowskirb	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwr\work\pwr\dot\pyrzenowskirb\d0311620	D151112-sht-plan.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97			2706	(AY&BY)RS-2	LAKE	28	21
	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01			BD600-06 (BD-24)	CONTRACT NO. 60V04			
	PLOT DATE = 5/14/2014	DATE - 03-11-94	REVISED - R. BORO 12-15-09			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
 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 AND FLAG 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.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

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

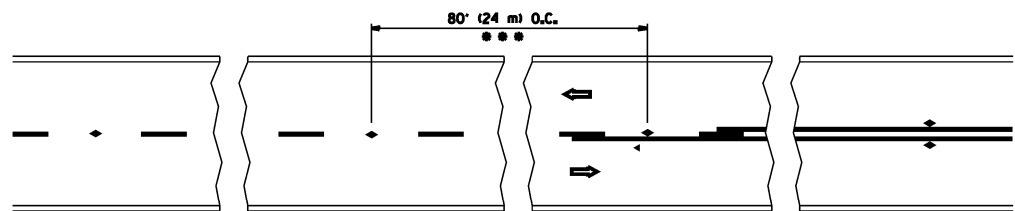
FILE NAME :	USER NAME : pyrzanowski	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
ca:\pwr\work\p1dot\pyrzanowski\b\0311620	D151112-sht-plan.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.000 / 1 in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 5/14/2014	DATE - 06-89	REVISED - T. RAMMÄCHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

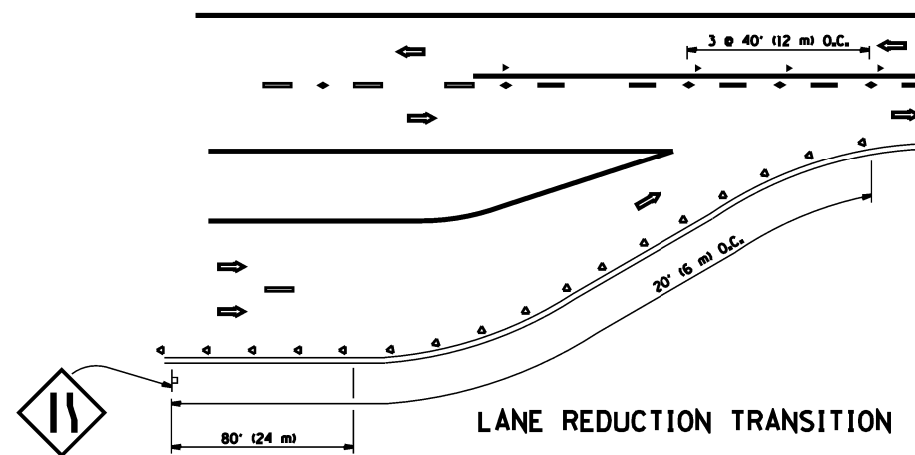
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2706	(A)BYRS-2	LAKE	28	22
	TC-10		CONTRACT NO. 60V04	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

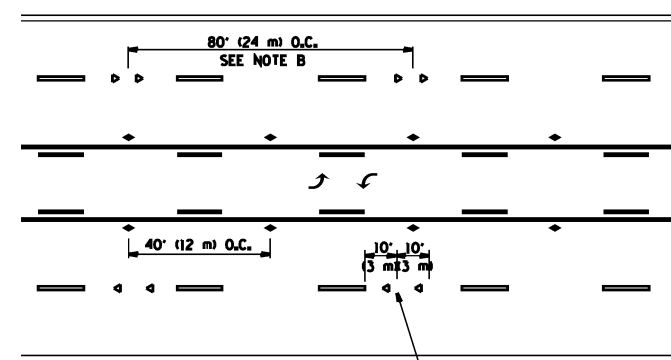


●●● REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 MPH (70 km/h) OR LESS.

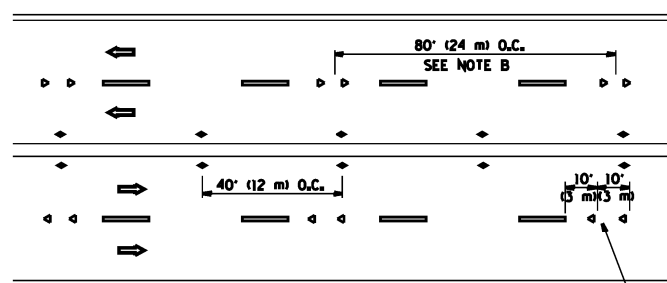
TWO-LANE/TWO-WAY



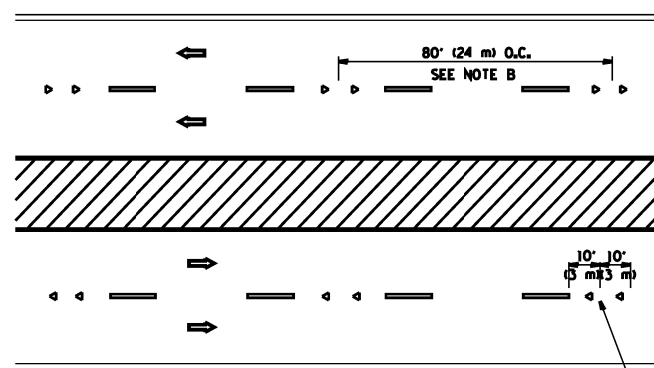
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

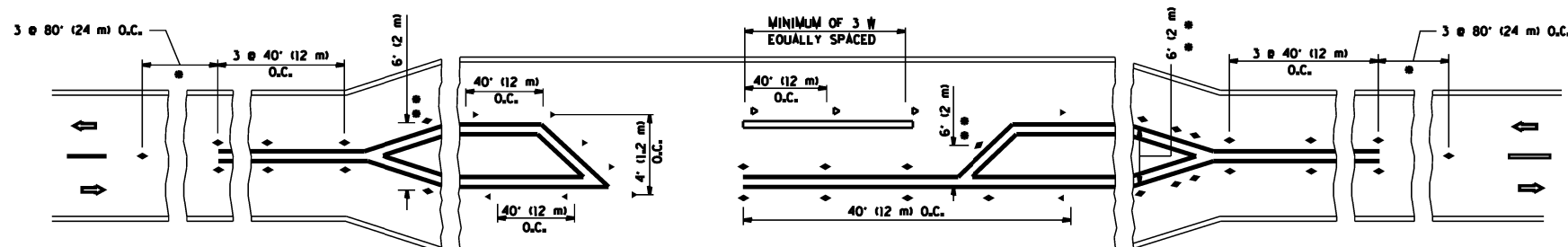
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (R/O)
- ▶ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



● SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ● WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

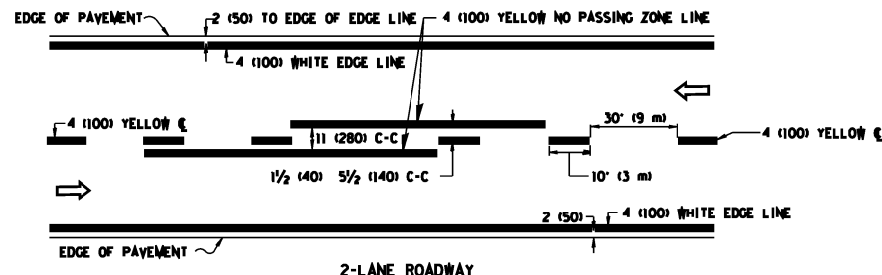
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = pyzzenowskirb	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
ct:\pwr\work\p1dot\pyzzenowskirb\0311620	D151112-sht-plan.dgn	DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 100.000 / 1 in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 5/14/2014	DATE -	REVISED - C. JUCIUS 09-09-09

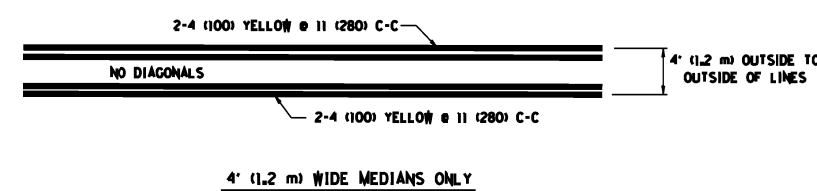
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

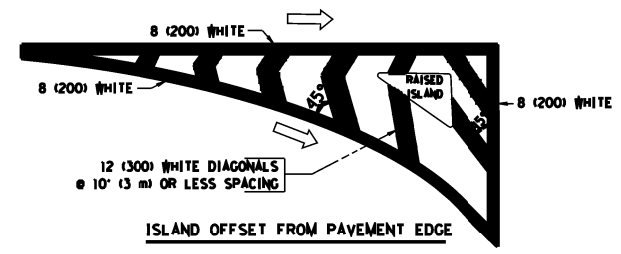
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2706	1A1&BYRS-2	LAKE	28	23
TC-11			CONTRACT NO. 60V04	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



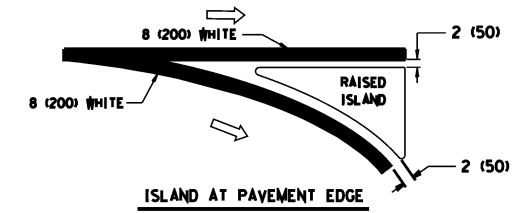
2-LANE ROADWAY



4' (1.2 m) WIDE MEDIANS ONLY

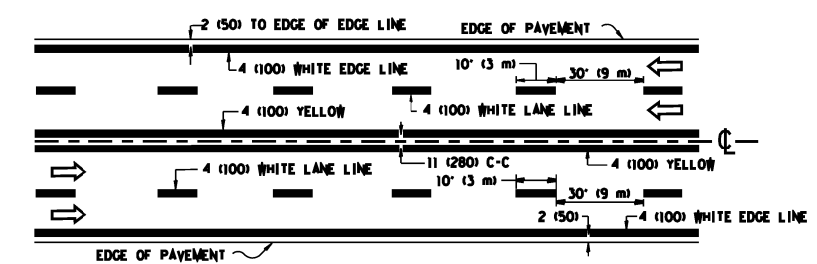


ISLAND OFFSET FROM PAVEMENT EDGE

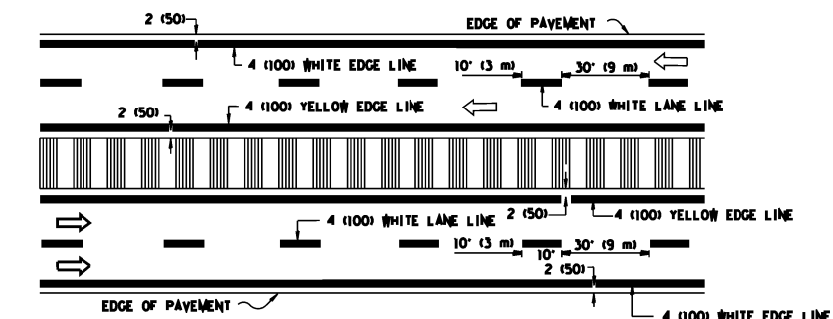


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



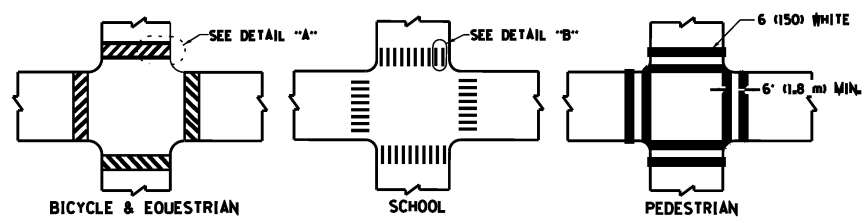
MULTI-LANE UNDIVIDED



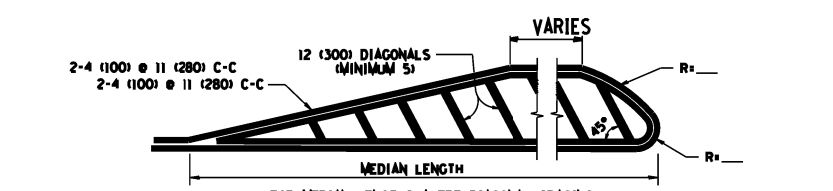
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

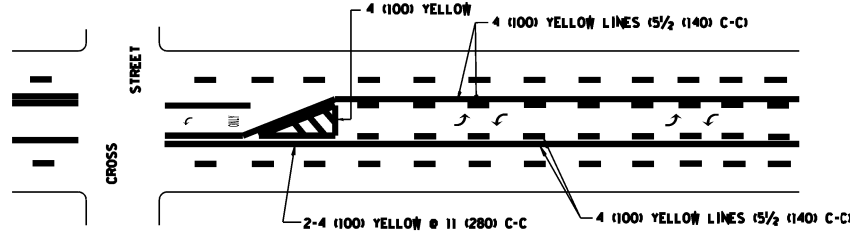
TYPICAL LANE AND EDGE LINE MARKING



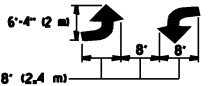
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE

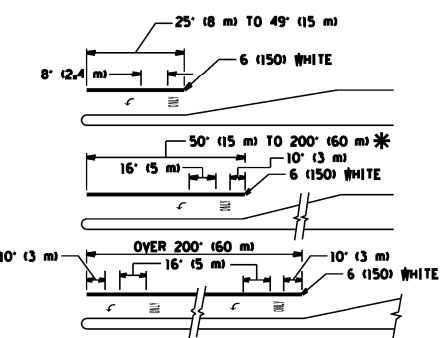


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) (ONLY) AREA = 20.8 SQ. FT. (1.9 m²)

* 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 ARROW - "ONLY".

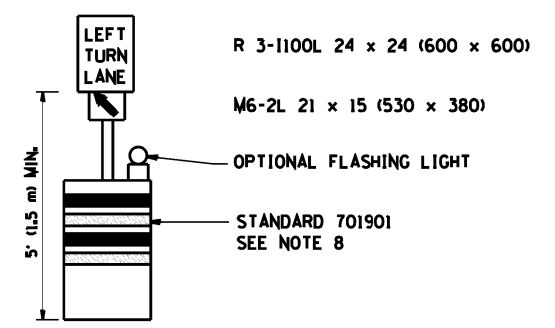
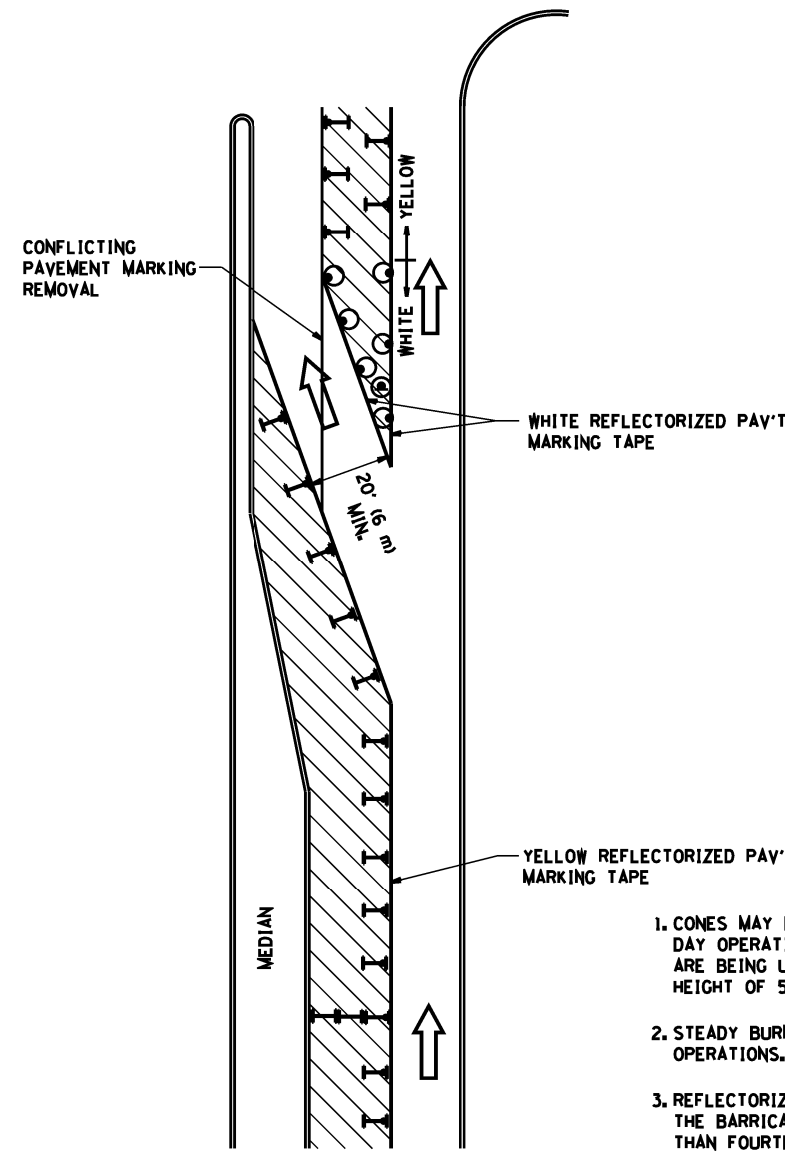
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

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	5/2 (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 MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
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 WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (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 SEE 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.
CORE 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" 15' (4.5 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 "R": 15 SQ. FT. (1.33 m ²) EACH "X": 54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	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))

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.



GENERAL NOTES

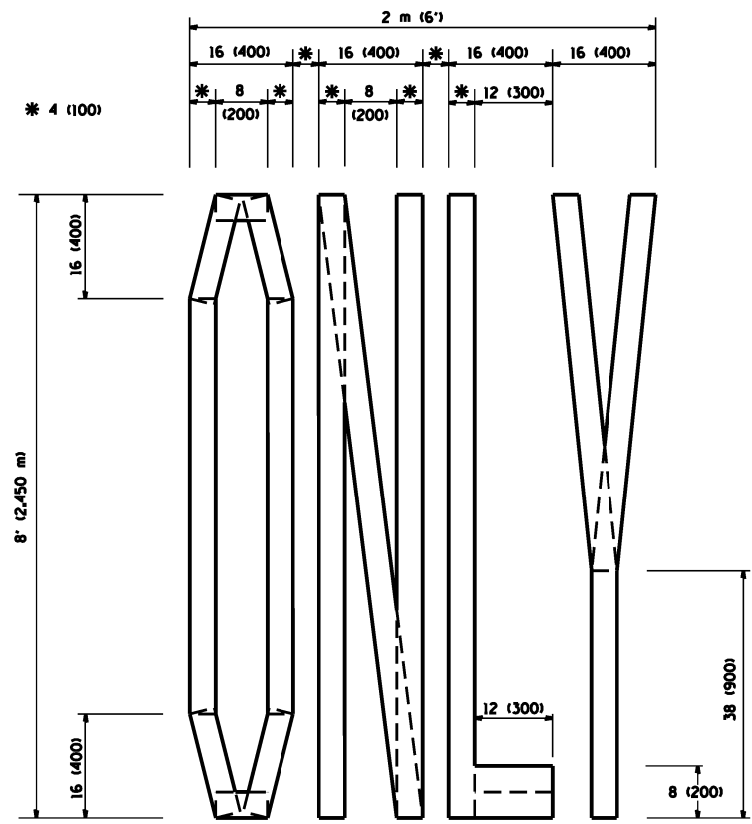
1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. 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" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREOUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

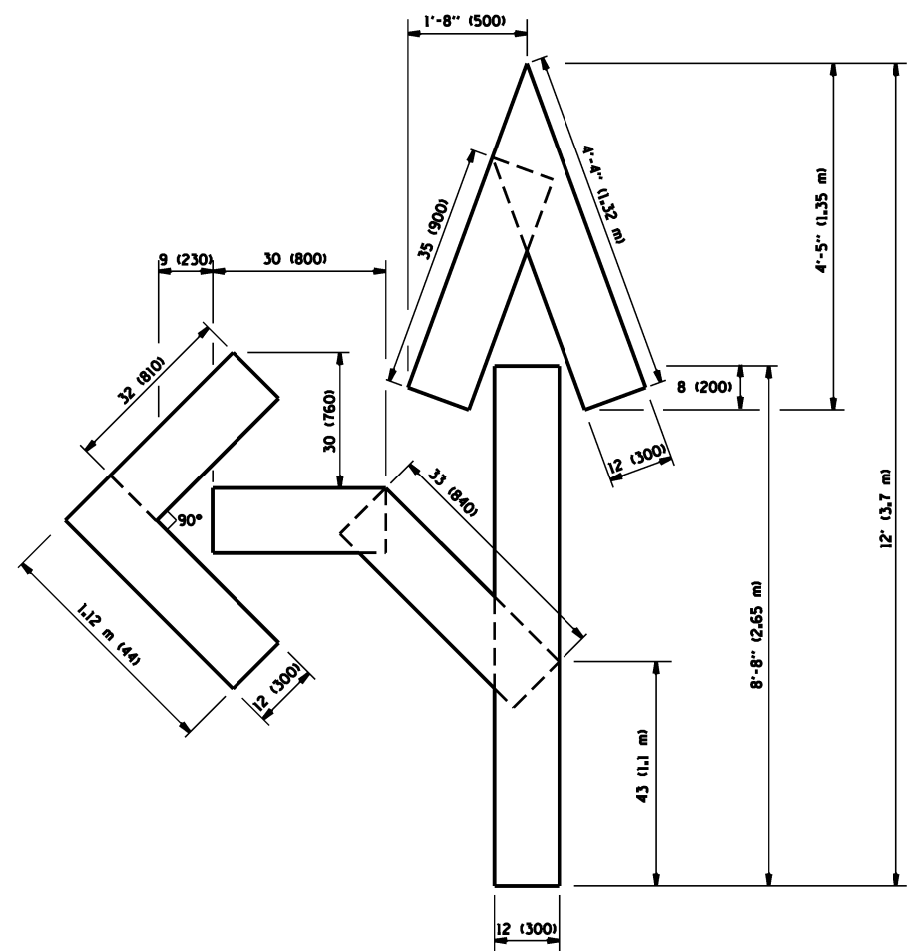
LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

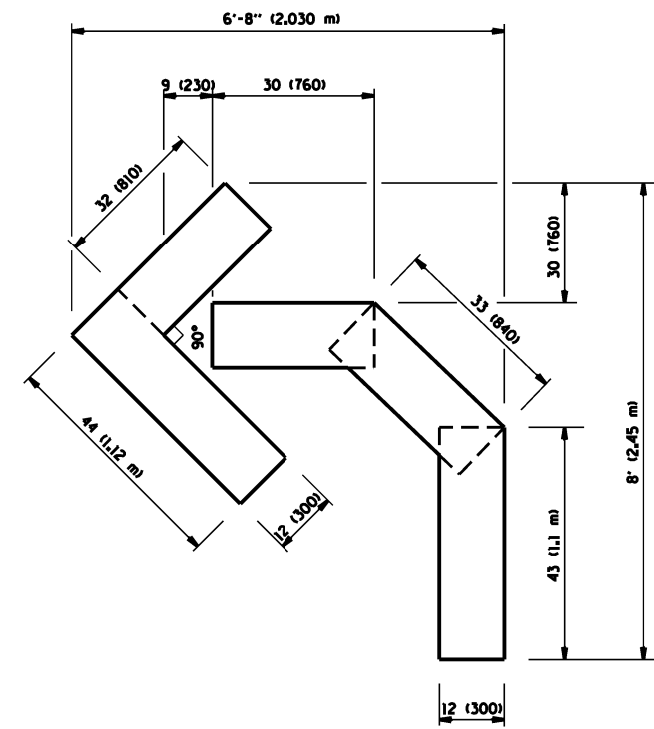
FILE NAME :	USER NAME : pyrzanowskirb	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A.U. RTE. 2706	SECTION (AY&BY)RS-2 TC-14	COUNTY LAKE	TOTAL SHEETS 28	SHEET NO. 25	CONTRACT NO. 60V04
ca:\pwr\work\pwr\dot\pyrzanowskirb\d0311620	D151112-sht-plan.dgn	REVISED - A. HOUSEH 11-07-95	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
	PLOT SCALE = 100.000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED -										
	PLOT DATE = 5/14/2014	REVISED - T. RAMMACHER 01-06-00	REVISED -										



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



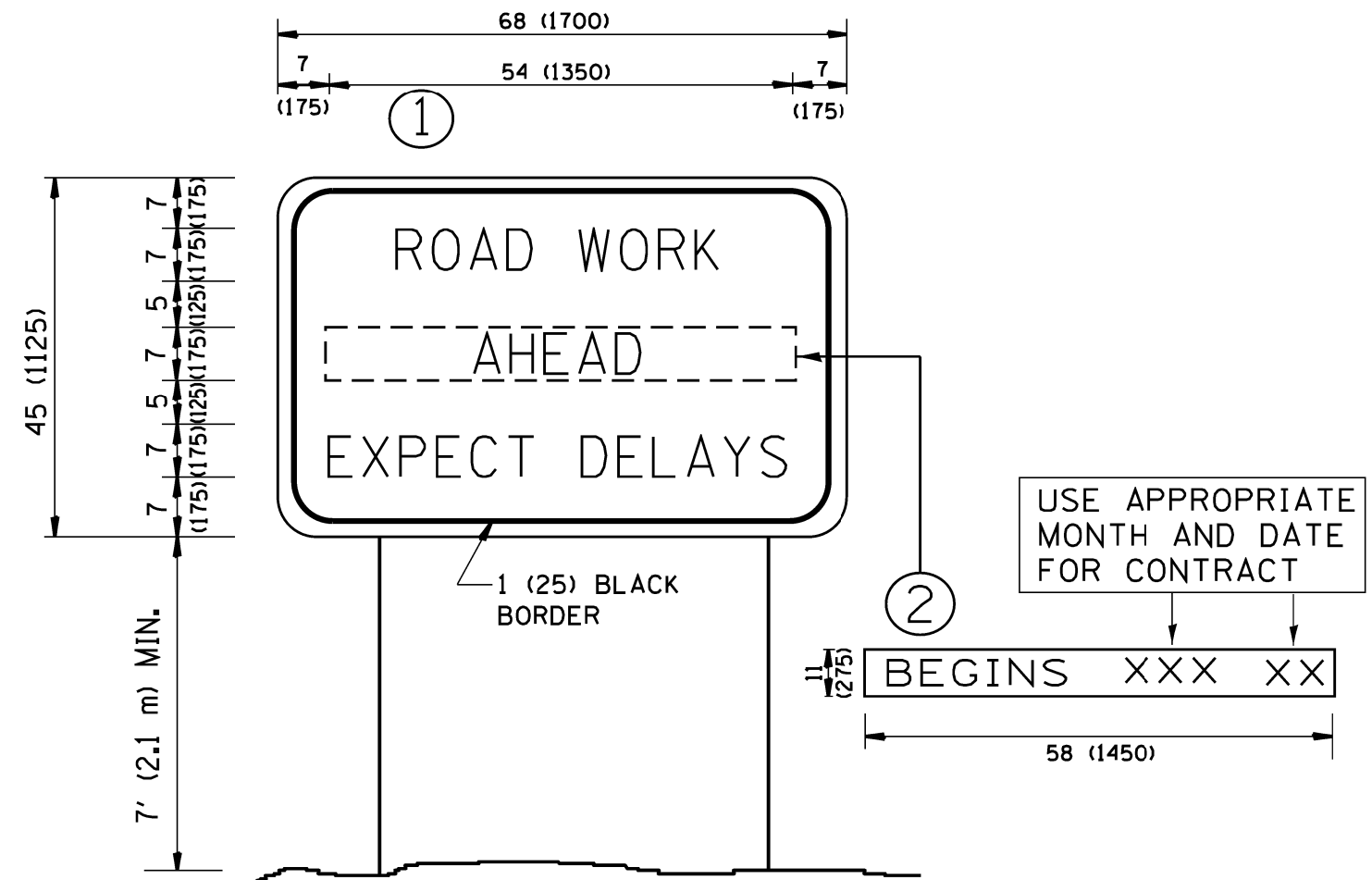
QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME =	USER NAME = pyzzenowskirb	DESIGNED -	REVISED - T. RAMMACHER 06-05-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\pwork\pyzzenowskirb\0311620	D151112-sht-plan.dgn	DRAWN -	REVISED - T. RAMMACHER 11-04-97				2706	LAKE	28	26	
	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED - T. RAMMACHER 03-02-98		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60V04	
	PLOT DATE = 5/14/2014	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID 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.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
ct:\pr-work\p1dot\pyrzenowskirb\0311620	pyrzenowskirb	-	R. MIRS 09-15-97
	D151112-sht-plan.dgn	DRAWN :	REVISED :
		-	R. MIRS 12-11-97
	PLOT SCALE = 100.000 ' / in.	CHECKED :	REVISED :
		-	T. RAMMACHER 02-02-99
	PLOT DATE = 5/14/2014	DATE :	REVISED :
		-	C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

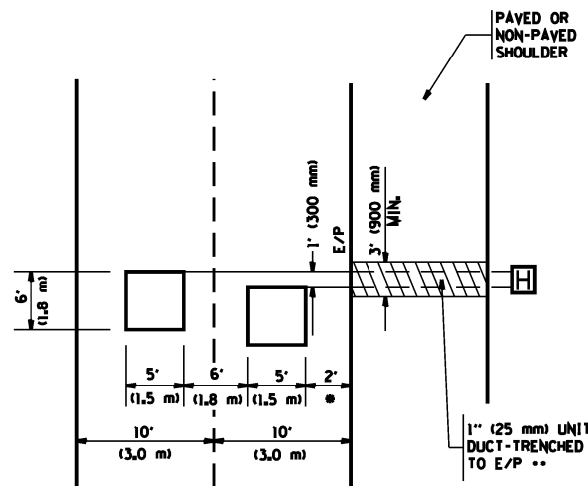
ARTERIAL ROAD
INFORMATION SIGN

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2706	1A&BYRS-2	LAKE	28	27
	TC-22		CONTRACT NO. 60V04	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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

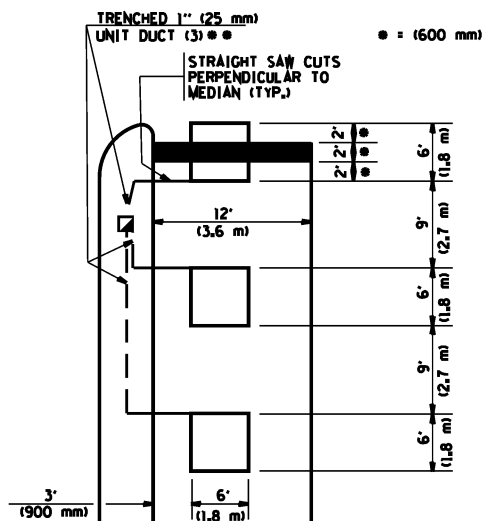


• = (600 mm)
• • UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

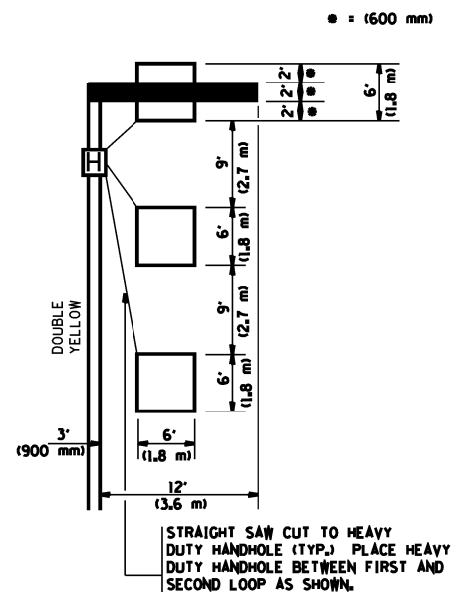
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



• • UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.
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

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 SEPARATELY. 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.

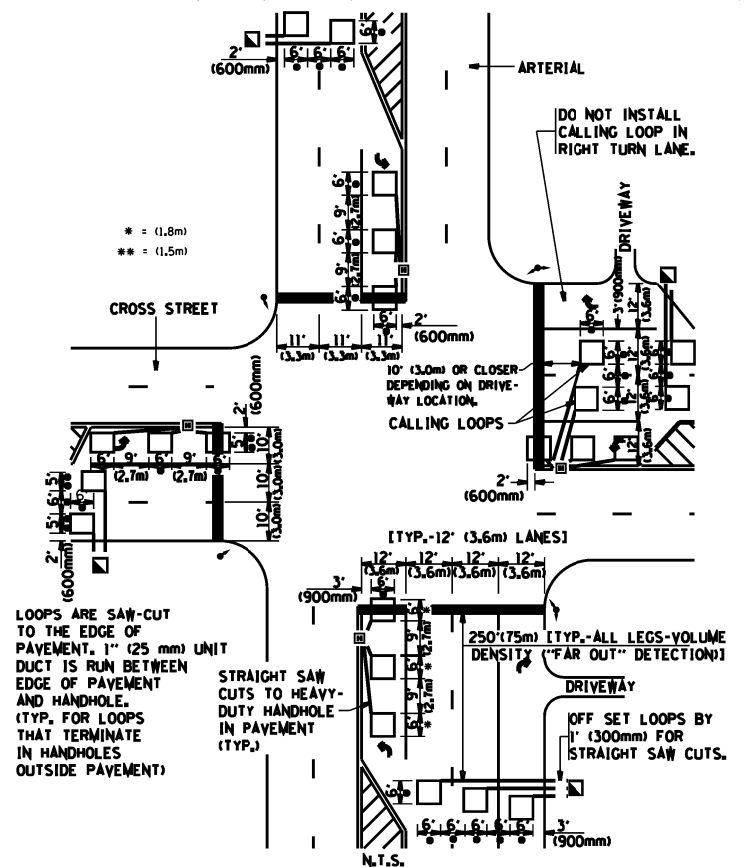
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

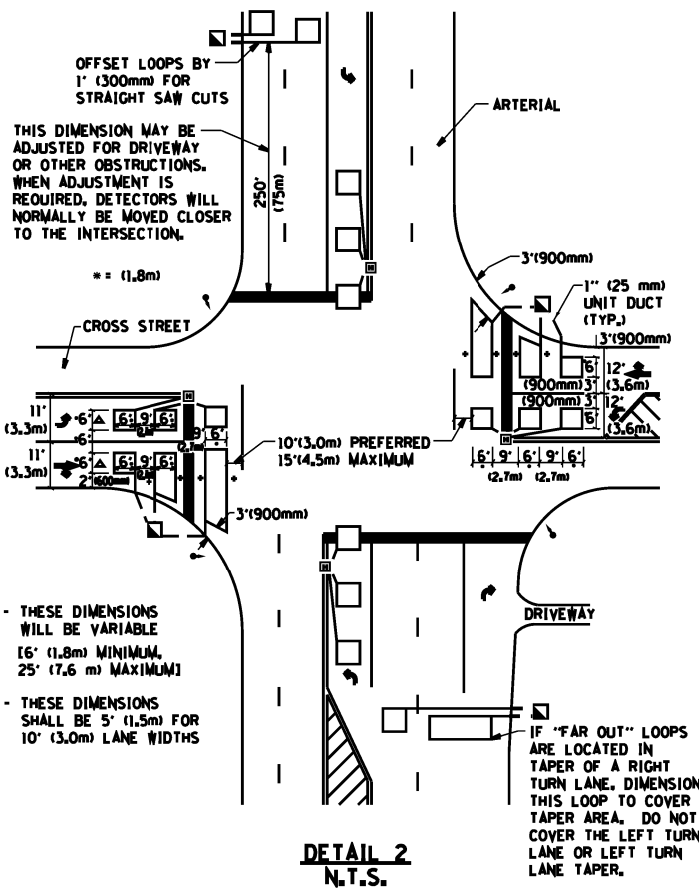
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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



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

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



**DETAIL 2
N.T.S.**

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pwr\work\p1\dot\pyrzanowskirb\d0311620	D151112-sht-plan.dgn	DRAWN -	REVISED -				2706	(A)BYRS-2	LAKE	28	28
	PLOT SCALE = 100.000 / in.	CHECKED - R.K.F.	REVISED -				TS-07				
	PLOT DATE = 5/14/2014	DATE -	REVISED -				CONTRACT NO. 60V04		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.					