

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF STATE AND LOCAL STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA - FABYAN PARKWAY

POSTED SPEED: 45 MPH
 DESIGN SPEED: 50 MPH
 CURRENT ADT (2010): 16,500 VPD
 DESIGN ADT (2040): 20,000 VPD

DESIGN DESIGNATION

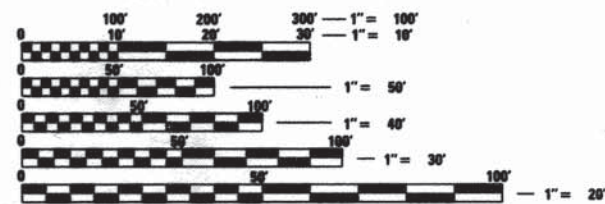
OTHER PRINCIPAL ARTERIAL

TRAFFIC DATA - KANEVILLE ROAD

POSTED SPEED: NOT APPLICABLE (AT INTERSECTION)
 DESIGN SPEED: 25 MPH
 CURRENT ADT (2010): 6,500 VPD
 DESIGN ADT (2040): 7,500 VPD

DESIGN DESIGNATION

MINOR ARTERIAL



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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
 FEDERAL AID PROJECT**

FAP 523 (FABYAN PARKWAY)

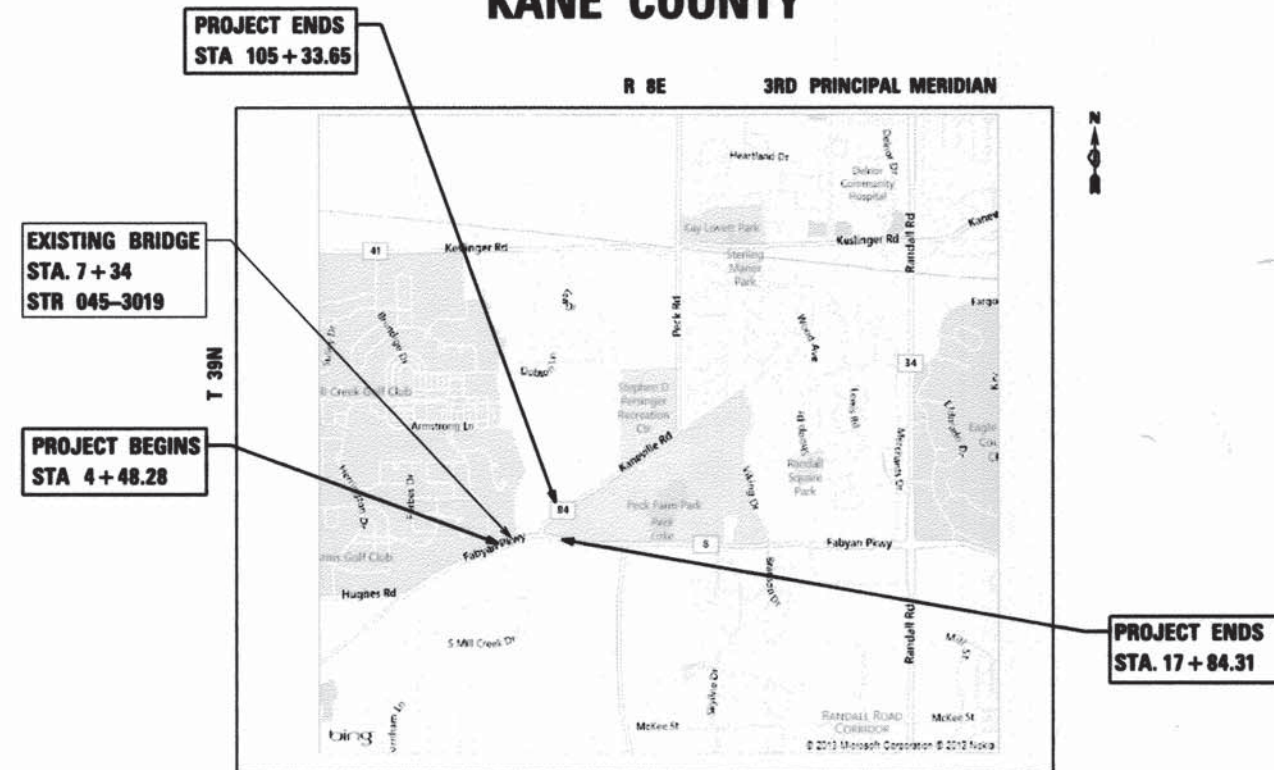
SECTION NO.: 11-00420-00-CH
 AT KANEVILLE ROAD

RECONSTRUCTION - INTERSECTION IMPROVEMENTS

PROJECT NO.: CMM-4003(016)

JOB NO.: C-91-389-12

KANE COUNTY



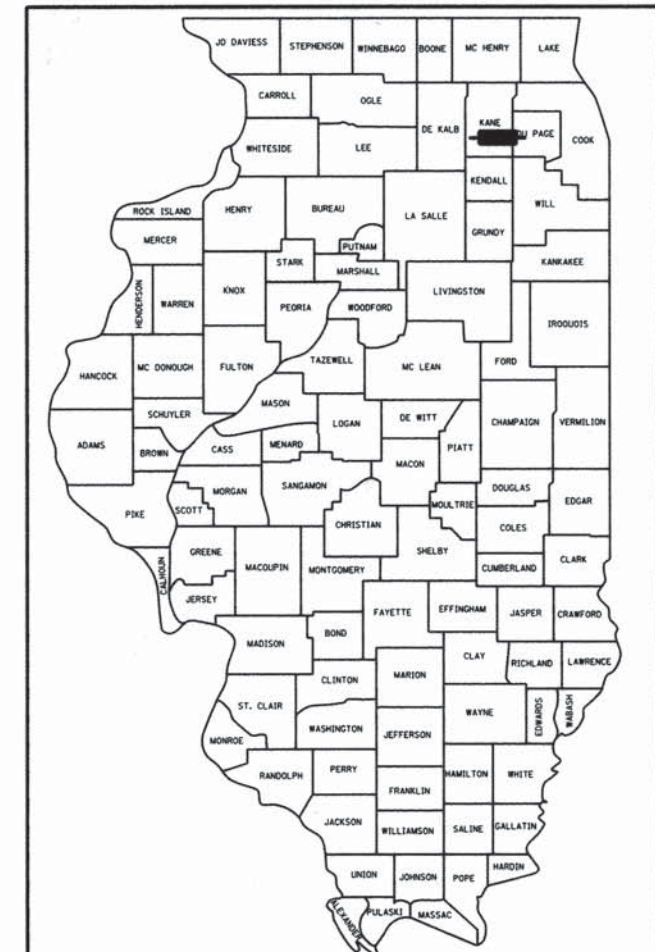
LOCATION MAP

SCALE: 1" = 0.5 MILES

GENEVA TOWNSHIP
 TOWNSHIP: 39N
 RANGE: 8E

GROSS LENGTH OF PROJECT = 1870 LINEAL FEET (0.35 MILES)
 NET LENGTH OF PROJECT = 1870 LINEAL FEET (0.35 MILES)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 61B45		



LOCATION OF SECTION INDICATED THIS: - [thick black line] -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED MARCH 11 2015
 [Signature]
 KANE COUNTY DIVISION OF TRANSPORTATION

PASSED APRIL 9 2015
 [Signature] CHERRYHEED HOLT
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
 BASED ON LIMITED REVIEW April 10 2015
 [Signature]
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

[Signature]
 MATTHEW A. PAPIRNIK, P.E. ENGINEER
 ILLINOIS REGISTRATION No. 062-052094
 EXPIRATION DATE: 11/30/2015



**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, PE 847-705-4021 SCHAUMBURG, IL

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DISTRICT ONE STANDARDS

DRAWING NUMBER	TITLE
TS-05A	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-02	MAST ARM MOUNTED STREET NAME SIGNS
TS-05B	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-05C	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-05D	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-05E	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-05F	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
LGT-1	LIGHTING PLAN
KANE-1	PTZ CAMERA DETAIL
BD-22	PAVEMENT PATCHES FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINTS AND HMA TAPER
BD-34	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL
BE-230	COMBINATION LIGHTING & TRAFFIC POLE MOUNTED ELECTRIC SERVICE BOX DETAIL
BE-235	COMBINATION LIGHTING CONTROLLER
TC-11	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

ALL REFERENCES TO STANDARD SPECIFICATIONS IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2012 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2015.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS; THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD); THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS, AND IDOT STANDARD DRAWINGS AS LISTED IN THE CONTRACT DOCUMENTS.

ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED AS THE RESIDENT ENGINEER.

STAKING

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OR PROPOSED PAVEMENT GRADES, UNLESS OTHERWISE NOTED.

UTILITIES

PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ACCURACY IS NOT GUARANTEED. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER, AND CABLE TELEVISION FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED.)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

ANY EXISTING OR PROPOSED SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. NO ADDITIONAL COMPENSATION SHALL BE PAID FOR THIS WORK.

SIGNING, STRIPING & LANDSCAPING

THE ENGINEER SHALL CONTACT THE TRAFFIC TECHNICIAN, RAY JOHNSON, AT 630-406-7356 AT LEAST 2 WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.

SIGNS WHICH ARE SO DESIGNATED BY THE ENGINEER SHALL BE REMOVED, STORED AND SUBSEQUENTLY RELOCATED BY THE KANE COUNTY DIVISION OF TRANSPORTATION. ANY SIGNS WHICH ARE DAMAGED DURING CONSTRUCTION OPERATIONS BEYOND REPAIR SHALL BE REPLACED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.

WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SODDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

THE CONTRACTOR SHALL ADHERE TO LIMITS OF RESTORATION SHOWN. AREAS OUTSIDE THESE LIMITS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR, SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

TREE ROOT PRUNING IS TO BE USED ON EXISTING TREES TO PREVENT THE RIPPING UP OF ROOTS WHEN TRENCHING OR EXCAVATION IS WITHIN THE ROOT ZONE OF ADJACENT TREES TO REMAIN. SUPPLEMENTAL WATERING OF TREES SHOULD BEGIN IMMEDIATELY AFTER ROOT PRUNING OF THE TREES HAS OCCURRED.

EARTHWORK

TOPSOIL STRIPPING SHALL BE 12" IN DEPTH UNDER AREAS OF PROPOSED PERMANENT OR TEMPORARY PAVEMENT, AND IN CUT AREAS. TOPSOIL STRIPPING ELSEWHERE SHALL BE 4" IN DEPTH. REFER TO THE CROSS SECTIONS FOR DETAILED INFORMATION.

GENERAL NOTES

WHERE SECTION, SUBSECTION, SUBDIVISION OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

A SAW CUT SHALL BE REQUIRED TO THE FULL DEPTH AT THE JOINT BETWEEN THE PAVEMENT, SIDEWALK, CURB AND GUTTER, MEDIAN, DRIVEWAY PAVEMENT, HOT-MIX ASPHALT SURFACES TO BE REMOVED AND THAT LEFT IN PLACE OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE ADJACENT REMOVAL ITEM.

THOSE SEEKING THE FULL GEOTECHNICAL REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT THE KANE COUNTY DIVISION OF TRANSPORTATION, 41W011 BURLINGTON ROAD, ST. CHARLES ILLINOIS 60175.

STATE STANDARDS

DRAWING NUMBER	TITLE
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	BIT. SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
642006	SHOULDER RUMBLE STRIPS, 8 IN.
701001-02	OFF-ROAD OPERATIONS, 2L, 2W MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS => 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS => 45 MPH
701426-07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVEING OPER., FOR SPEEDS => 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720016-03	MAST ARM MOUNTED STREET NAME SIGNS
720021-02	SIGN PANELS, EXTRUDED ALUMINUM TYPE
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	CONCRETE HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
877011-05	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'



USER NAME = r.jiang	DESIGNED - MAP	REVISED -
	DRAWN - RGJ	REVISED -
PLOT SCALE = 48,0000' / in.	CHECKED - RMG	REVISED -
PLOT DATE = 4/4/2015	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	2
				CONTRACT NO. 61B45
ILLINOIS FED. AID PROJECT				

CODED NUMBER	ITEM	UNIT	TOTAL QUANTITY 0004 ROADWAY PARTICIPATING (80% FEDERAL/ 20% KANE COUNTY)
20101200	TREE ROOT PRUNING	EACH	4
20200100	EARTH EXCAVATION	CU YD	1,523
20800150	TRENCH BACKFILL	CU YD	51
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	759
21400100	GRADING AND SHAPING DITCHES	FOOT	1,500
25000210	SEEDING, CLASS 2A	ACRE	1.50
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	135
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135
25100900	TURF REINFORCEMENT MAT	SQ YD	280
25200200	SUPPLEMENTAL WATERING	UNIT	20
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	140
28000305	TEMPORARY DITCH CHECKS	FOOT	152
28000400	PERIMETER EROSION BARRIER	FOOT	1,137
28000500	INLET AND PIPE PROTECTION	EACH	1
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	6,773
30300104	AGGREGATE SUBGRADE IMPROVEMENT 4"	SQ YD	2,803
30300106	AGGREGATE SUBGRADE IMPROVEMENT 6"	SQ YD	521
35600700	HOT-MIX ASPHALT BASE COURSE WIDENING, 6"	SQ YD	1,820
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	475
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	601
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	681

CODED NUMBER	ITEM	UNIT	TOTAL QUANTITY 0004 ROADWAY PARTICIPATING (80% FEDERAL/ 20% KANE COUNTY)
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	610
44000100	PAVEMENT REMOVAL	SQ YD	560
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	2,605
44004250	PAVED SHOULDER REMOVAL	SQ YD	1,098
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	19
48100300	AGGREGATE SHOULDERS, TYPE A 4"	SQ YD	108
48100700	AGGREGATE SHOULDERS, TYPE A 8"	SQ YD	641
48203013	HOT-MIX ASPHALT SHOULDERS, 4"	SQ YD	783
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	278
48203100	HOT-MIX ASPHALT SHOULDERS	TON	232
50105220	PIPE CULVERT REMOVAL	FOOT	75
54214083	ALUMINUM END SECTIONS 18"	EACH	2
542A1063	PIPE CULVERTS, CLASS A, TYPE 2, 18"	FOOT	106
60255500	MANHOLES TO BE ADJUSTED	EACH	2
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	67
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	92
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	1,097
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	112.5
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3

* SPECIALTY ITEMS

**BURNS
MEDONNELL**
200 W. ADAMS STREET / SUITE 1600
CHICAGO, IL 60606
P: (312)-223-0920 / F: (312)-223-9664
WEB: WWW.BURNSMCD.COM

USER NAME = mpapirnik	DESIGNED - MAP	REVISED -
PLOT SCALE = 28.0000' / IN.	DRAWN - RGJ	REVISED -
PLOT DATE = 3/19/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	3
			CONTRACT NO. 61045	
ILLINOIS FED. AID PROJECT				

CODED NUMBER	ITEM	UNIT	TOTAL QUANTITY
			0004 ROADWAY PARTICIPATING (80% FEDERAL/20% KANE COUNTY)
* 63200310	GUARDRAIL REMOVAL	FOOT	332
67100100	MOBILIZATION	L SUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,000
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	60
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6,000
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	25
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	3,250
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1,266
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	126
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	8
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	14
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3
78300100	PAVEMENT MARKING REMOVAL	SO FT	532
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	EACH	1
* 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	731
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	538
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	184
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	364

* SPECIALTY ITEMS

CODED NUMBER	ITEM	UNIT	TOTAL QUANTITY
			0004 ROADWAY PARTICIPATING (80% FEDERAL/20% KANE COUNTY)
* 81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	5221
* 81101100	CONDUIT ATTACHED TO STRUCTURE, 5" DIA., GALVANIZED STEEL	FOOT	200
* 81400100	HANDHOLE	EACH	20
* 81400200	HEAVY-DUTY HANDHOLE	EACH	2
* 81603050	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	190
* 82102100	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 100 WATT	EACH	3
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
* 81400300	DOUBLE HANDHOLE	EACH	1
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	413
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1440
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	240
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3187
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	185
* 87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C	FOOT	312
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6, 1C	FOOT	1107
* 87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
* 87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
* 87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
* 87702870	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
* 87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1



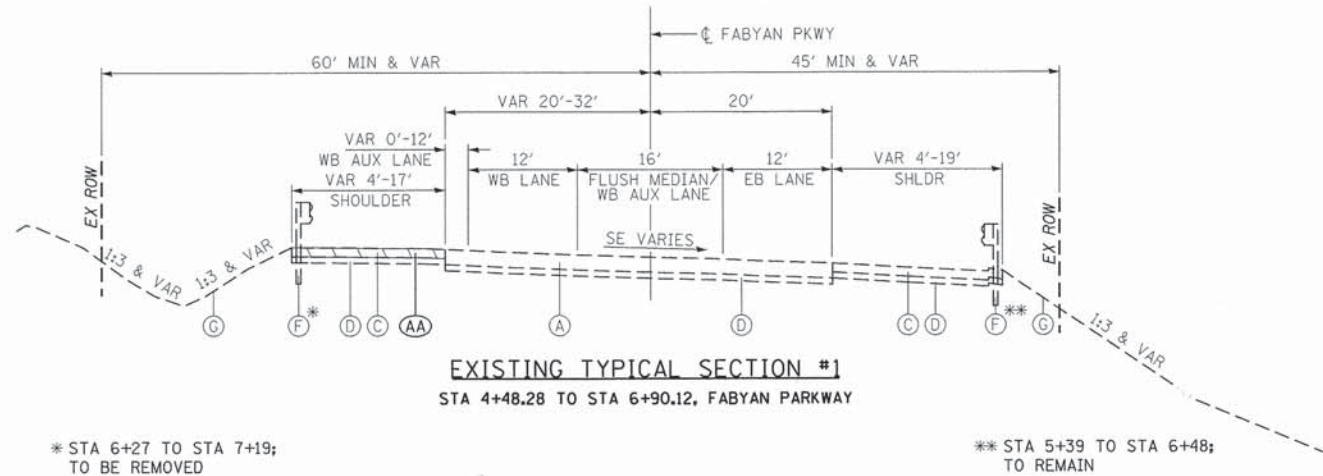
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PLOT SCALE = 28.0000' / in.	DRAWN - RGJ	REVISED -
PLOT DATE = 3/19/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	4
			CONTRACT NO. 61B45	
(ILLINOIS) FED. AID PROJECT				



EXISTING TYPICAL SECTION #1
STA 4+48.28 TO STA 6+90.12, FABYAN PARKWAY

* STA 6+27 TO STA 7+19;
TO BE REMOVED

** STA 5+39 TO STA 6+48;
TO REMAIN

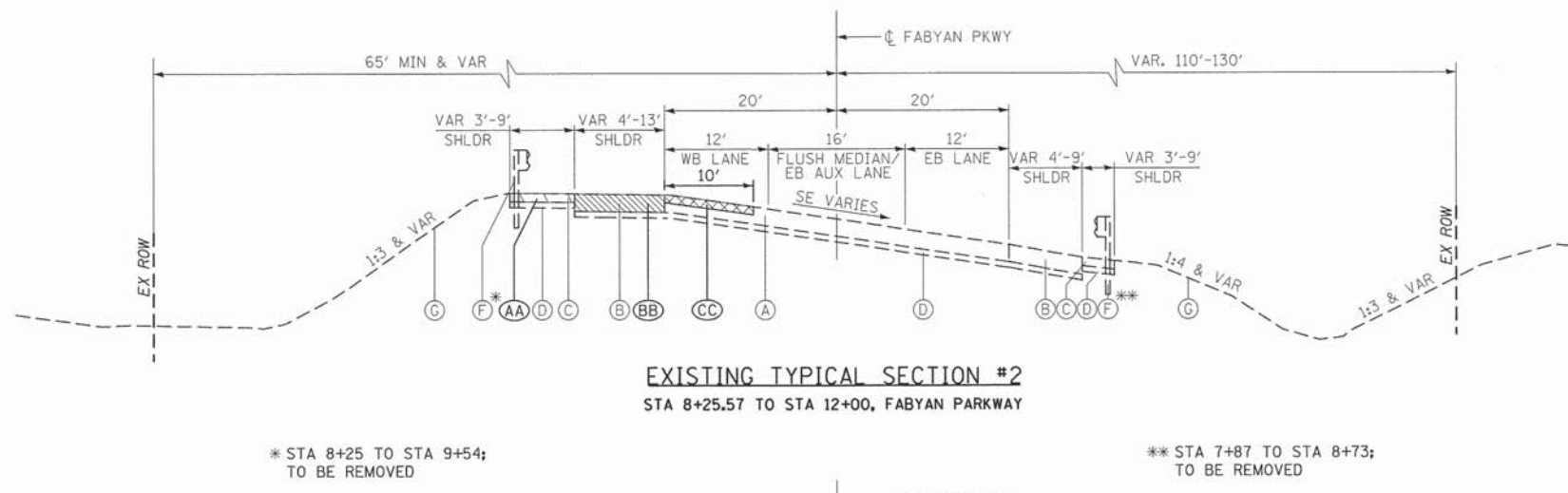
NOTE: TYPICAL SECTION OMISSION - 6+90.12
TO 8+25.57 (EXISTING BRIDGE)

EXISTING LEGEND

- (A) HMA PAVEMENT, 10" & VARIES
- (B) HMA SHOULDER, 9" & VARIES
- (C) HMA SHOULDER, 4" & VARIES
- (D) AGGREGATE SUBBASE, 4" & VARIES
- (E) AGGREGATE SHOULDER
- (F) GUARDRAIL
- (G) UNSUITABLE MATERIAL (TOPSOIL, DEPTH VARIES)

REMOVAL ITEMS LEGEND

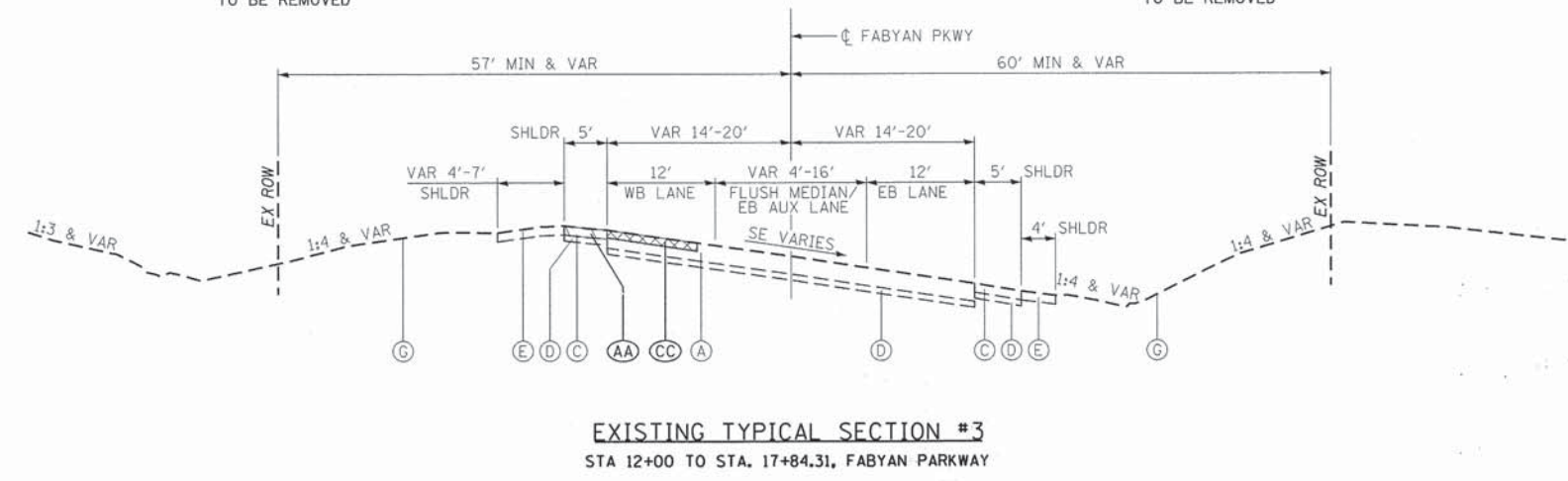
- (AA) SHOULDER REMOVAL
- (BB) PAVEMENT REMOVAL
- (CC) HMA SURFACE REMOVAL, 1-1/2"



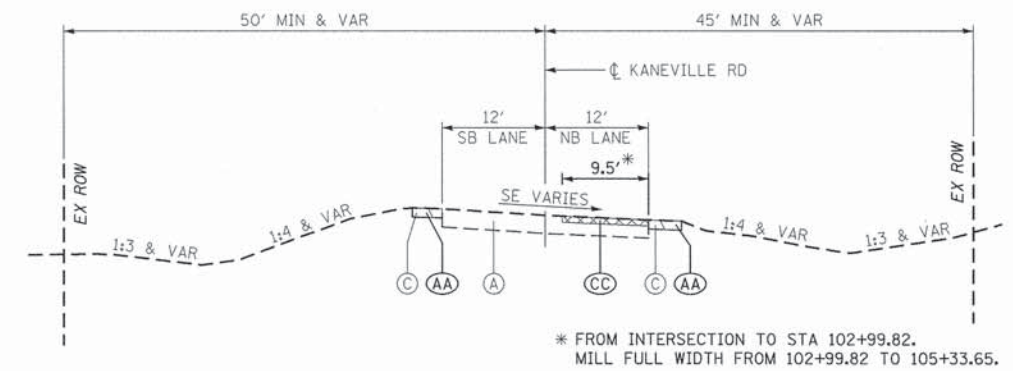
EXISTING TYPICAL SECTION #2
STA 8+25.57 TO STA 12+00, FABYAN PARKWAY

* STA 8+25 TO STA 9+54;
TO BE REMOVED

** STA 7+87 TO STA 8+73;
TO BE REMOVED



EXISTING TYPICAL SECTION #3
STA 12+00 TO STA. 17+84.31, FABYAN PARKWAY



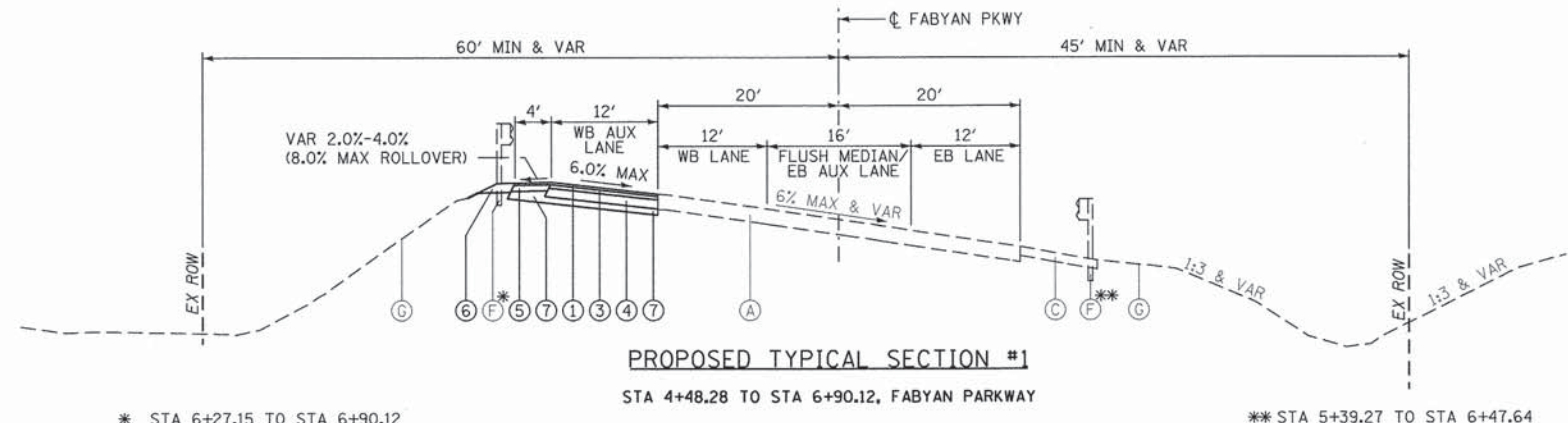
EXISTING TYPICAL SECTION #4
STA 100+79.40 TO STA 105+33.65, FABYAN PARKWAY

* FROM INTERSECTION TO STA 102+99.82.
MILL FULL WIDTH FROM 102+99.82 TO 105+33.65.

USER NAME = mpapirnk	DESIGNED - MAP	REVISED -
PLOT SCALE = 10,000' / 1"	DRAWN - RGJ	REVISED -
PLOT DATE = 4/3/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

EXISTING TYPICAL SECTIONS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

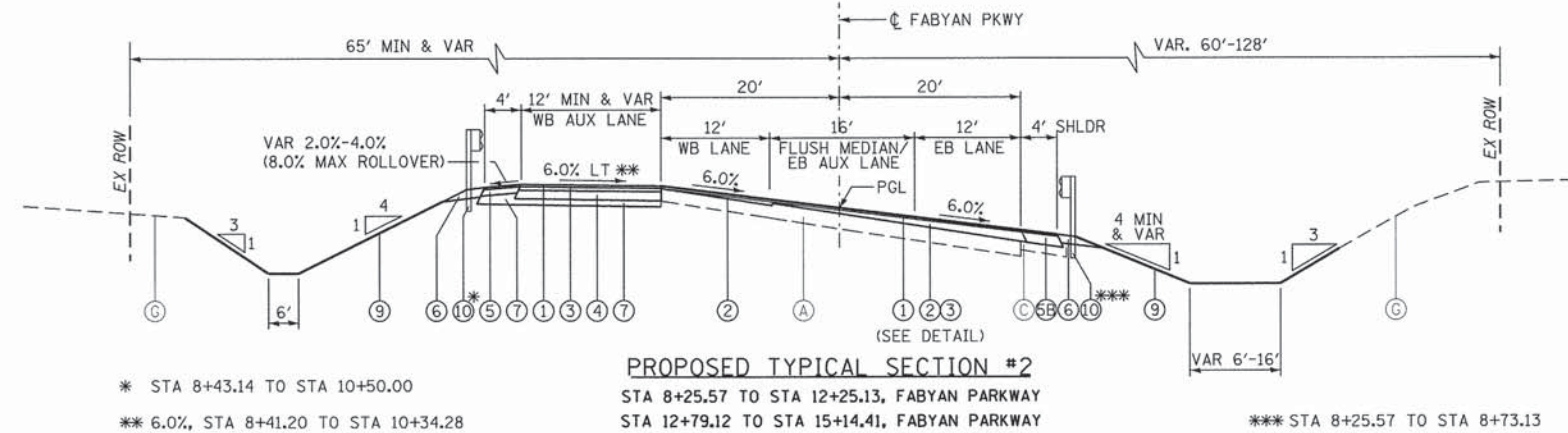
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	6
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



* STA 6+27.15 TO STA 6+90.12

** STA 5+39.27 TO STA 6+47.64

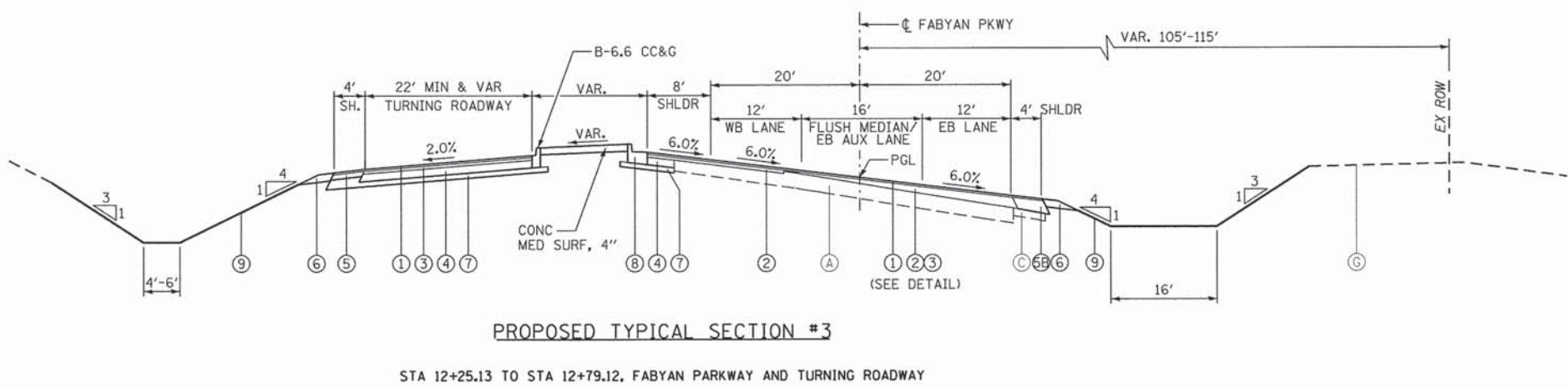
NOTE: TYPICAL SECTION OMISSION - 6+90.12 TO 8+25.57 (EXISTING BRIDGE)



* STA 8+43.14 TO STA 10+50.00

** 6.0% STA 8+41.20 TO STA 10+34.28
VAR 6.0% LT TO 2.0% RT BETWEEN STA. 10+34.28 AND STA. 12+25.13

*** STA 8+25.57 TO STA 8+73.13



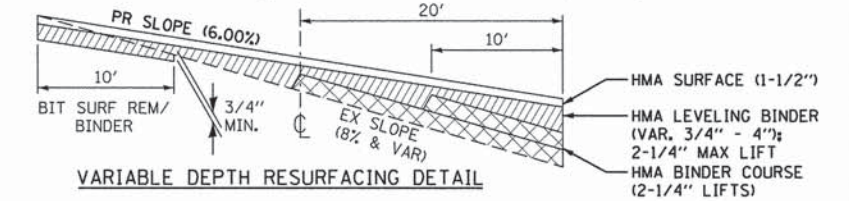
STA 12+25.13 TO STA 12+79.12, FABYAN PARKWAY AND TURNING ROADWAY

EXISTING LEGEND

- (A) HMA PAVEMENT, 10" & VARIES
- (B) HMA SHOULDER, 9" & VARIES
- (C) HMA SHOULDER, 4" & VARIES
- (D) AGGREGATE SUBBASE, 4" & VARIES
- (E) AGGREGATE SHOULDER
- (F) GUARDRAIL
- (G) UNSUITABLE MATERIAL (TOPSOIL, DEPTH VARIES)

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N70
- (3) HOT-MIX ASPHALT BINDER COURSE, N70, 2-1/4" MIN.
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 6"
- (5) HOT-MIX ASPHALT SHOULDERS, 4"
- (5A) HOT-MIX ASPHALT SHOULDERS, 6"
- (5B) HOT-MIX ASPHALT SHOULDERS, TON (DEPTH VARIES 4"-9.5")
- (6) AGGREGATE SHOULDERS, TYPE A 8"
- (7) AGGREGATE SUBGRADE IMPROVEMENT, 4"
- (8) COMB. CONCRETE CURB AND GUTTER, TYPE B-6.24
- (9) TOPSOIL EXCAVATION AND PLACEMENT
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS



HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	VOIDS
RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5mm) 1-1/2"	4% @ 70 GYR.
LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5mm)	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (THICKNESS AND NUMBER OF LIFTS AS INDICATED IN PLANS)	4% @ 70 GYR.
ROADWAY WIDENING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5mm) 1-1/2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"	4% @ 70 GYR.
HOT-MIX ASPHALT BASE COURSE WIDENING, 6"	4% @ 70 GYR.
HMA SHOULDER PAVEMENT	
HMA SHOULDER (HMA BINDER IL-19mm) SURFACE MIX TYPE SAME AS RESURFACING	4% @ 70 GYR.
TEMPORARY WIDENING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5mm) 1-1/2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4-1/2" (2 LIFTS)	4% @ 70 GYR.
PAVEMENT PATCHING	
CLASS D PATCHES, TYPE III HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8" (IN 3 LIFTS)	4% @ 70 GYR.

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

FOR PERCENT OF RAP, SEE DISTRICT ONE SPECIAL PROVISIONS.

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.

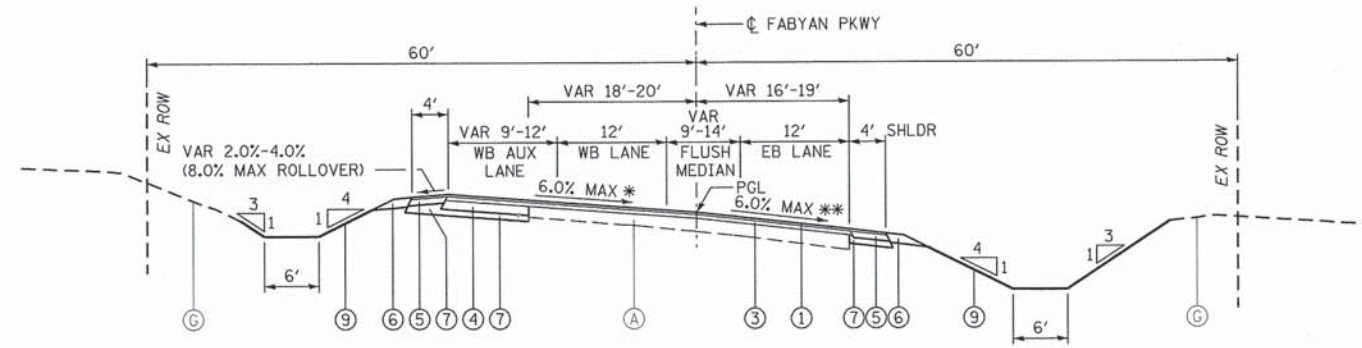
BURNS MEDONNELL
200 N. ADAMS STREET / SUITE 1600
CHICAGO, IL 60606
P: (312) 223-0920 / F: (312) 223-9664
WEB: WWW.BURNSMCD.COM

USER NAME = r.jiang	DESIGNED - MAP	REVISED -
PLOT SCALE = 20.0000' / 1"	DRAWN - RGJ	REVISED -
PLOT DATE = 4/6/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICAL SECTIONS	
SCALE: NONE	SHEET 1 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	7
CONTRACT NO. 61B45				ILLINOIS FED. AID PROJECT



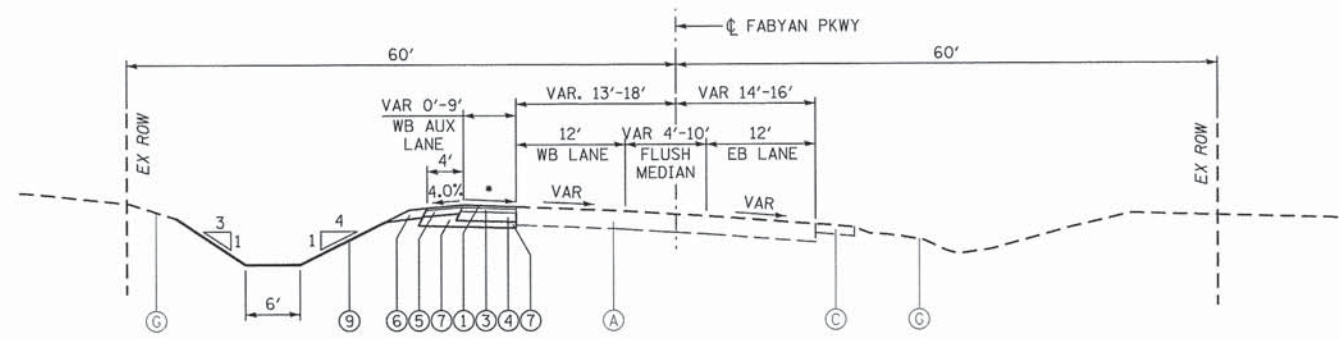
WB AUX LANE TRANSITION	
STA	WIDTH
15+14.41	12'
15+64.50	12'
16+10.00	9'

FLUSH MEDIAN TRANSITION	
STA	WIDTH
15+14.41	14'
16+10.00	9'

* VAR 6.0% TO EXISTING SLOPE BETWEEN STA. 15+14.41 AND STA. 16+10.00

PROPOSED TYPICAL SECTION #4
STA 15+14.41 TO STA 16+10.00, FABYAN PARKWAY

** VAR 6.0% TO EXISTING SLOPE BETWEEN STA. 15+80.00 AND STA. 16+10.00

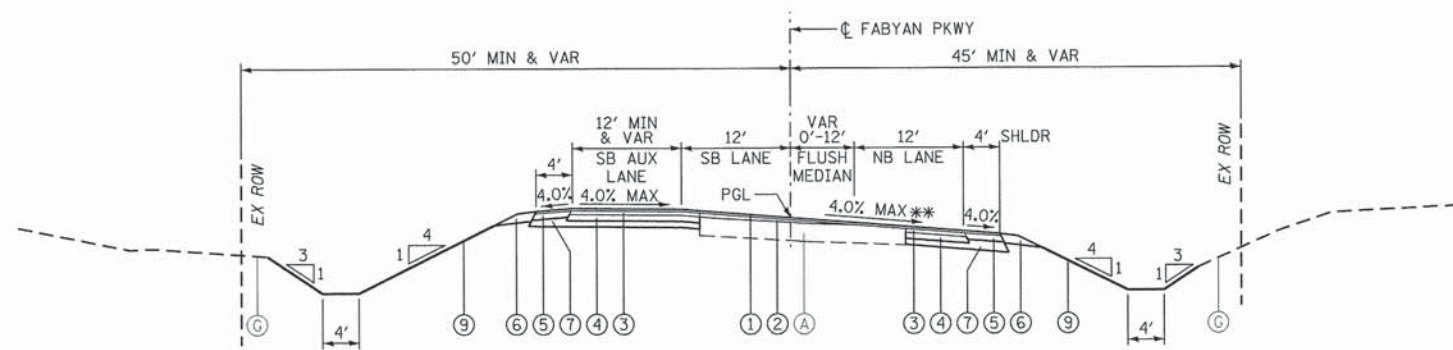


WB AUX LANE TRANSITION	
STA	WIDTH
16+10.00	9'
17+84.31	0'

FLUSH MEDIAN TRANSITION	
STA	WIDTH
16+10.00	9'
17+84.31	4'

* MATCH EXISTING ADJACENT PAVEMENT SLOPE

PROPOSED TYPICAL SECTION #5
STA 16+10.00 TO STA 17+84.31, FABYAN PARKWAY



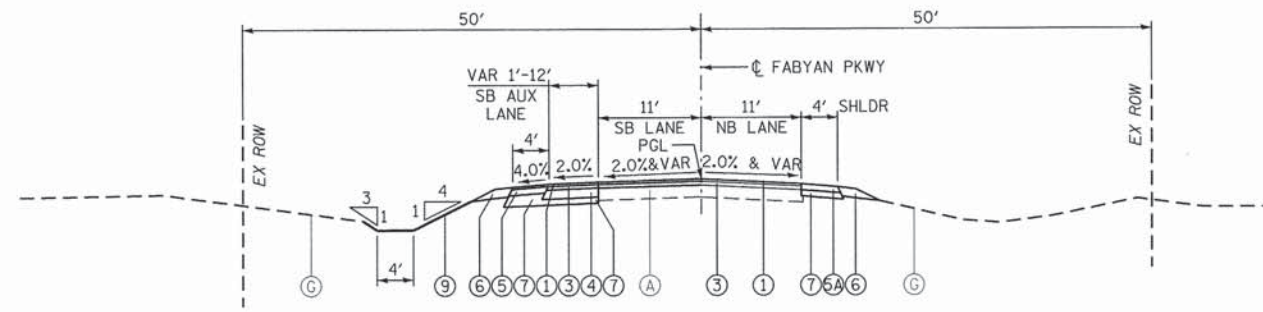
SB AUX LANE TRANSITION	
STA	WIDTH
100+79.40	14'
101+21.19	14'
101+40.84	12'
103+13.65	12'

FLUSH MEDIAN TRANSITION	
STA	WIDTH
100+79.40	12'
103+13.65	0'

* VAR 2.0% RT TO 4.0% LT BETWEEN STA. 100+90.83 AND STA. 102+09.84
4.0%, STA 102+09.84 TO 102+92.20
VAR 4.0% TO 2.7% BETWEEN STA. 102+92.20 AND STA. 103+13.65

PROPOSED TYPICAL SECTION #6
STA 100+79.40 TO STA 103+13.65, KANEVILLE RD

** VAR 0.0% TO 4.0% BETWEEN STA. 100+47.88 AND STA. 101+26.88
4.0%, STA. 101+26.88 TO STA. 102+92.20
VAR 4.0% TO 2.7% BETWEEN STA. 102+92.20 AND STA. 103+13.65



SB AUX LANE TRANSITION	
STA	WIDTH
103+13.65	12'
105+33.65	1'

PROPOSED TYPICAL SECTION #7
STA 103+13.65 TO STA 105+33.65, KANEVILLE RD

EXISTING LEGEND

- (A) HMA PAVEMENT, 10" & VARIES
- (B) HMA SHOULDER, 9" & VARIES
- (C) HMA SHOULDER, 4" & VARIES
- (D) AGGREGATE SUBBASE, 4" & VARIES
- (E) AGGREGATE SHOULDER
- (F) GUARDRAIL
- (G) UNSUITABLE MATERIAL (TOPSOIL, DEPTH VARIES)

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N70
- (3) HOT-MIX ASPHALT BINDER COURSE, N70, 2-1/4" MIN.
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 6"
- (5) HOT-MIX ASPHALT SHOULDERS, 4"
- (6A) HOT-MIX ASPHALT SHOULDERS, 6"
- (6B) HOT-MIX ASPHALT SHOULDERS, TON (DEPTH VARIES 4"-9.5")
- (6) AGGREGATE SHOULDERS, TYPE A 8"
- (7) AGGREGATE SUBGRADE IMPROVEMENT, 4"
- (8) COMB. CONCRETE CURB AND GUTTER, TYPE B-6.24
- (9) TOPSOIL EXCAVATION AND PLACEMENT
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

BURNS & MCDONNELL
200 W. ADAMS STREET / SUITE 1600
CHICAGO, IL 60606
P: (312) 223-0800 / F: (312) 223-9664
WEB: WWW.BURNSMCD.COM

USER NAME = r.jiang	DESIGNED - MAP	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - RGJ	REVISED -
PLOT DATE = 4/6/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
523	11-00420-00-CH	KANE	64
SCALE: NONE			SHEET 2 OF 2 SHEETS
STA.		TO STA.	

TOTAL SHEETS	SHEET NO.	CONTRACT NO.
64	8	61B45
ILLINOIS FED. AID PROJECT		

LOCATION	UNDERCUT AND AGGREGATE SUBGRADE IMPROVEMENT (CY)	TOPSOIL EXCAVATION (TOPSOIL) (CY)	EARTH EXCAVATION (CY)	0.85 EXCAVATION TO BE USED FOR EMBANKMENT (adj.)	EMBANKMENT REQUIRED (CY)	EARTHWORK BALANCE WASTE (+) / SHORTAGE (-)
STAGE 1 CONSTRUCTION						
TEMP PYMT EAST OF KANEVILLE		19				
EB FABYAN PARKWAY		157	337	287	83	203
STAGE 1 TOTALS	0	177	337	287	83	203
STAGE 2 CONSTRUCTION						
WB FABYAN PARKWAY, 4+50 TO 12+00	25	209	663	563	369	194
TURNING ROADWAY / SB KANEVILLE RD	25	218	164	139	513	-374
STAGE 2 TOTALS	50	427	827	703	882	-180
STAGE 3 CONSTRUCTION						
WB FABYAN PARKWAY AUX LANE	12	128	251	213	91	123
NB KANEVILLE RD	8	28	108	92	32	60
STAGE 3 TOTALS	20	156	359	305	123	182
STAGE 4 CONSTRUCTION						
SURFACE COURSE (NO EARTHWORK)						
STAGE 4 TOTALS	0	0	0	0	0	0
TOTALS	70	759	1523	1295	1089	206

NOTE:
 UNDERCUT QUANTITY REFLECTS GEOTECHNICAL RECOMMENDATION
 FOR 6-INCH UNDERCUT UNDER 20% OF NEW PAVEMENT AREAS.
 REMOVAL AND RELOCATION OF UNDERCUT MATERIAL WILL BE PAID
 FOR AS TOPSOIL EXCAVATION AND PLACEMENT. THE UNDERCUT
 SHALL BE REPLACED WITH AGGREGATE SUBGRADE IMPROVEMENT, 6".

**BURNS
MEDONNELL**
 200 N. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312)-223-0920 / F: (312)-223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME: mepapirnik	DESIGNED - MAP	REVISED -
	DRAWN - RGJ	REVISED -
FLOT SCALE: 20,000' / 1"	CHECKED - RMG	REVISED -
PLOT DATE: 3/19/2015	DATE - 03/16/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

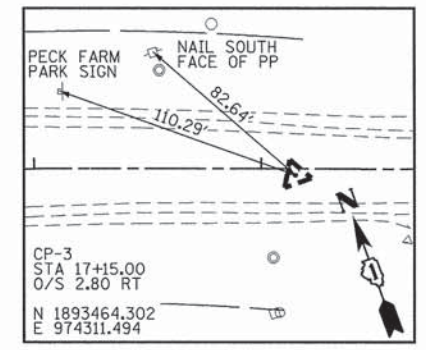
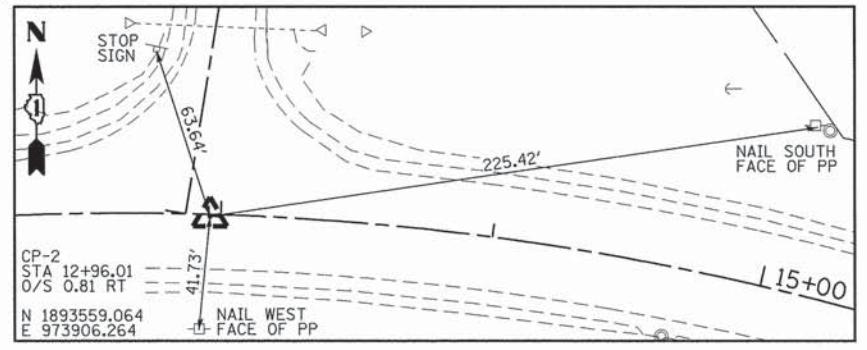
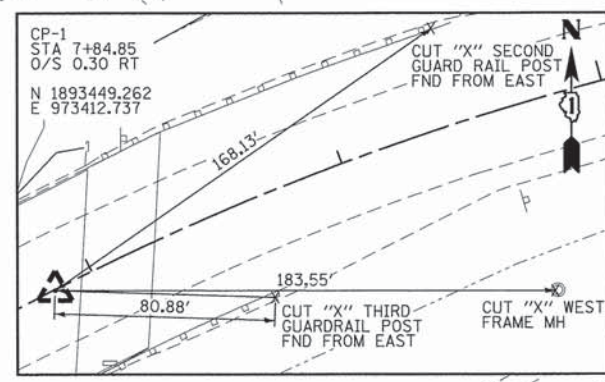
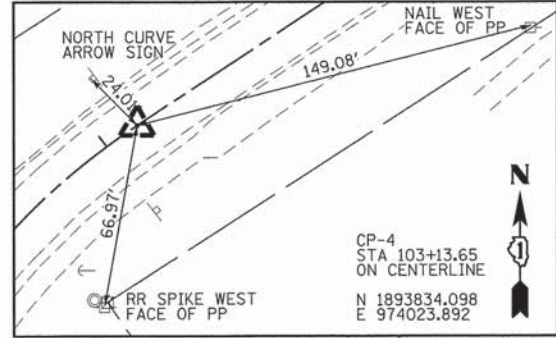
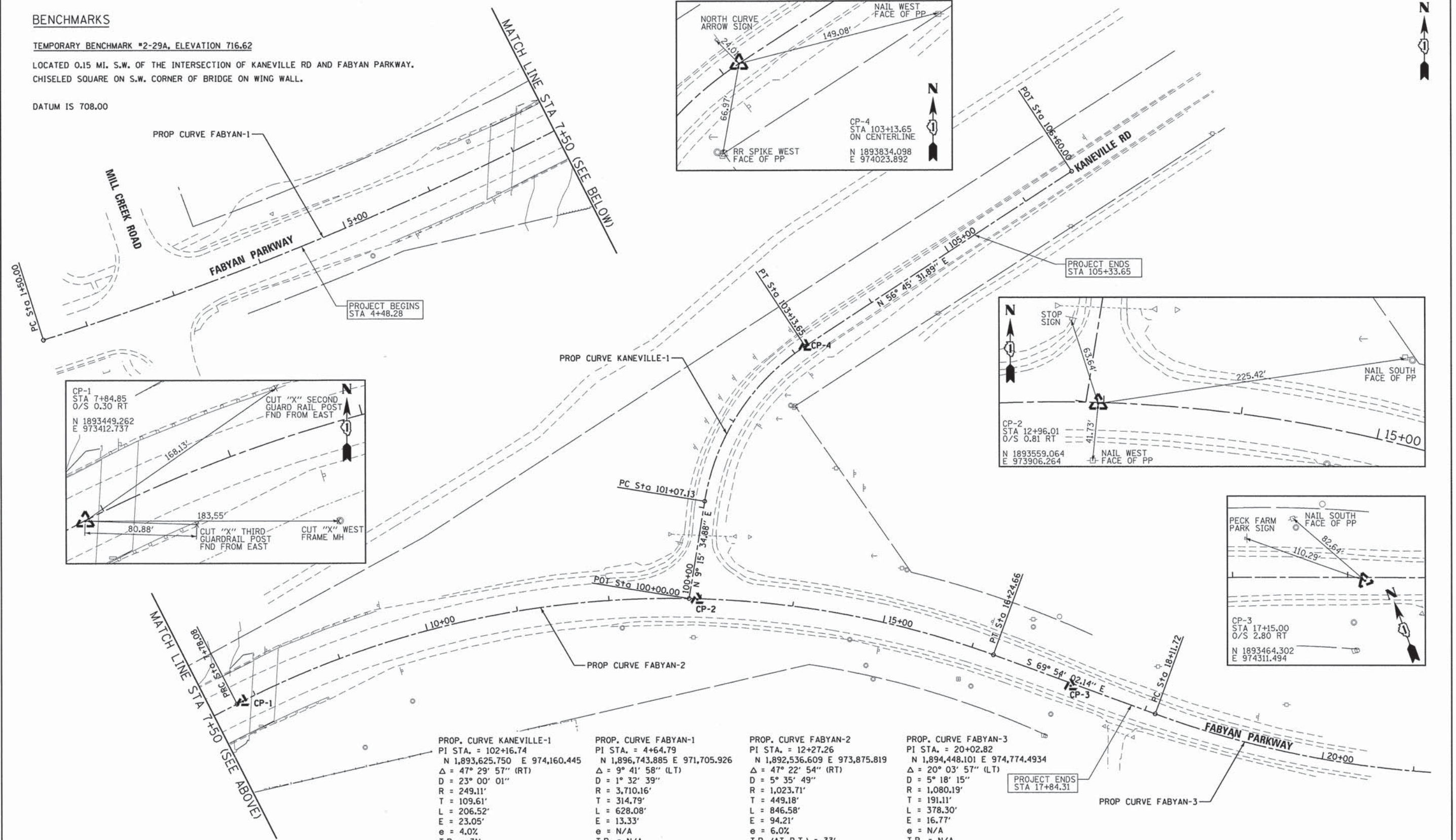
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	9
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				

BENCHMARKS

TEMPORARY BENCHMARK #2-29A, ELEVATION 716.62

LOCATED 0.15 MI. S.W. OF THE INTERSECTION OF KANEVILLE RD AND FABYAN PARKWAY.
CHISELED SQUARE ON S.W. CORNER OF BRIDGE ON WING WALL.

DATUM IS 708.00



PROP. CURVE KANEVILLE-1
 PI STA. = 102+16.74
 N 1,893,625.750 E 974,160.445
 $\Delta = 47^\circ 29' 57''$ (RT)
 D = 23° 00' 01"
 R = 249.11'
 T = 109.61'
 L = 206.52'
 E = 23.05'
 e = 4.0%
 T.R. = 31'
 S.E. RUN = 63'
 P.C. STA. = 101+07.13
 N 1,893,665.833 E 973,914.581
 P.T. STA. = 103+13.65
 N 1,893,834.098 E 974,023.892

PROP. CURVE FABYAN-1
 PI STA. = 4+64.79
 N 1,896,743.885 E 971,705.926
 $\Delta = 9^\circ 41' 58''$ (LT)
 D = 1° 32' 39"
 R = 3,710.16'
 T = 314.79'
 L = 628.08'
 E = 13.33'
 e = N/A
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 1+50.00
 N 1,893,207.056 E 972,826.714
 P.R.C. STA. = 7+78.08
 N 1,893,446.443 E 973,406.574

PROP. CURVE FABYAN-2
 PI STA. = 12+27.26
 N 1,892,536.609 E 973,875.819
 $\Delta = 47^\circ 22' 54''$ (RT)
 D = 5° 35' 49"
 R = 1,023.71'
 T = 449.18'
 L = 846.58'
 E = 94.21'
 e = 6.0%
 T.R. (AT P.T.) = 33'
 S.E. RUN (AT P.T.) = 132'
 P.R.C. STA. = 7+78.08
 N 1,893,446.443 E 973,406.574
 P.T. STA. = 16+24.66
 N 1,893,497.976 E 974,227.618

PROP. CURVE FABYAN-3
 PI STA. = 20+02.82
 N 1,894,448.101 E 974,774.4934
 $\Delta = 20^\circ 03' 57''$ (LT)
 D = 5° 18' 15"
 R = 1,080.19'
 T = 191.11'
 L = 378.30'
 E = 16.77'
 e = N/A
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 18+11.72
 N 1,893,433.693 E 974,403.285
 P.T. STA. = 21+90.02
 N 1,893,367.907 E 974,773.860



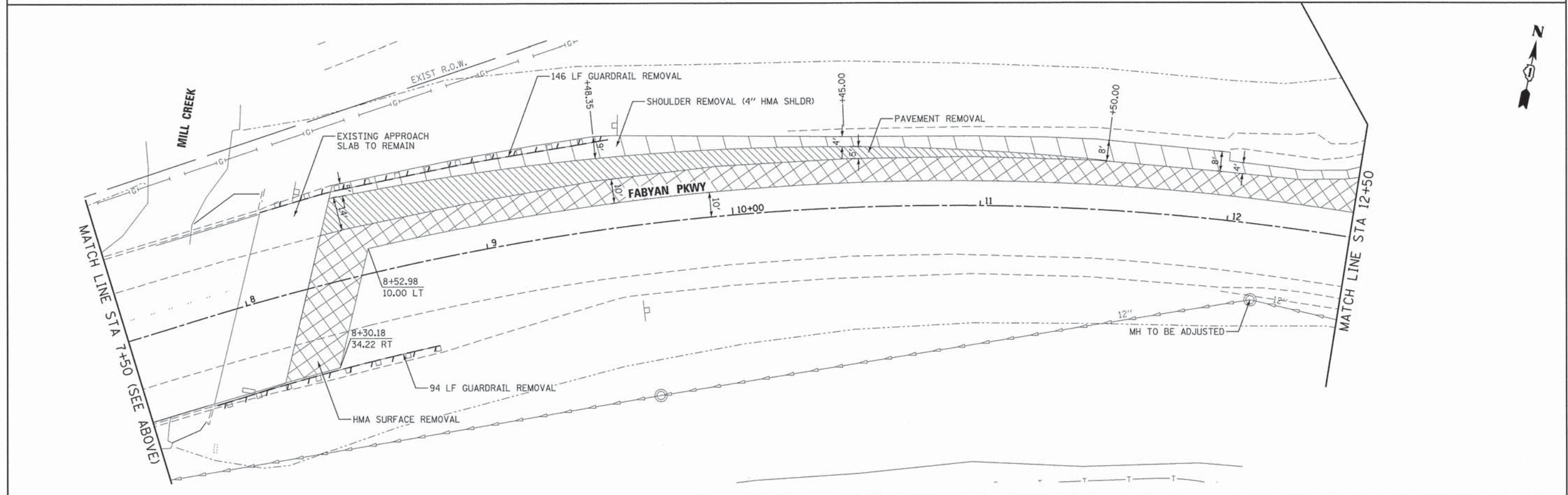
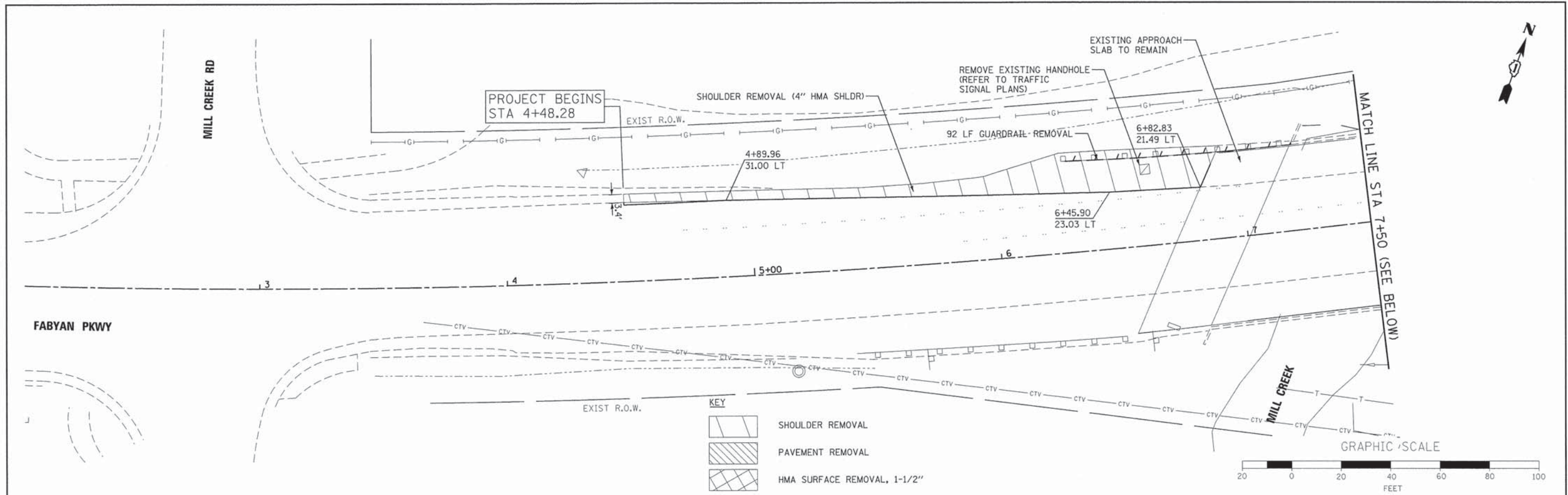
BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312) 223-0920 / F: (312) 223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = r.jiang	DESIGNED - MAP	REVISED -
PLOT SCALE = 100.0000' / 1" =	DRAWN - RGJ	REVISED -
PLOT DATE = 4/4/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENTS, TIES AND BENCHMARKS			
SCALE: 1"=50'	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	10
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
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USER NAME = mpapirnik	DESIGNED - MAP	REVISED -
PLOT SCALE = 20,000' = 1"	DRAWN - RGJ	REVISED -
PLOT DATE = 3/15/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

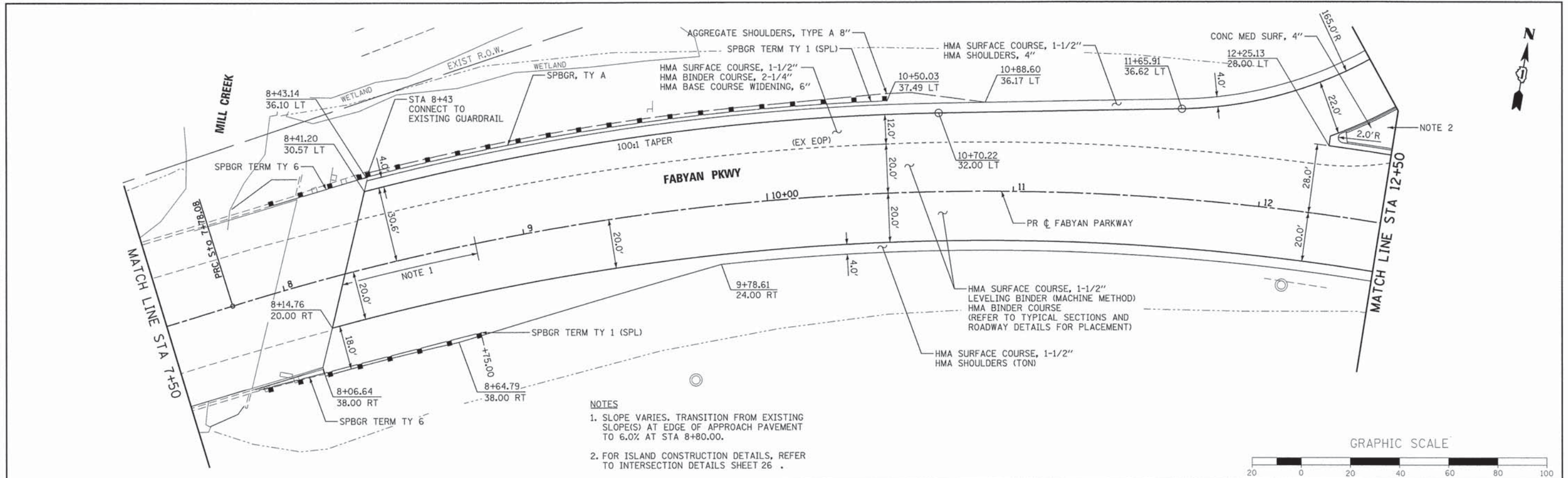
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FABYAN PARKWAY AT KANEVILLE ROAD REMOVAL PLAN - FABYAN PARKWAY	
SCALE: 1"=20'	SHEET 1 OF 2 SHEETS STA. TO STA.

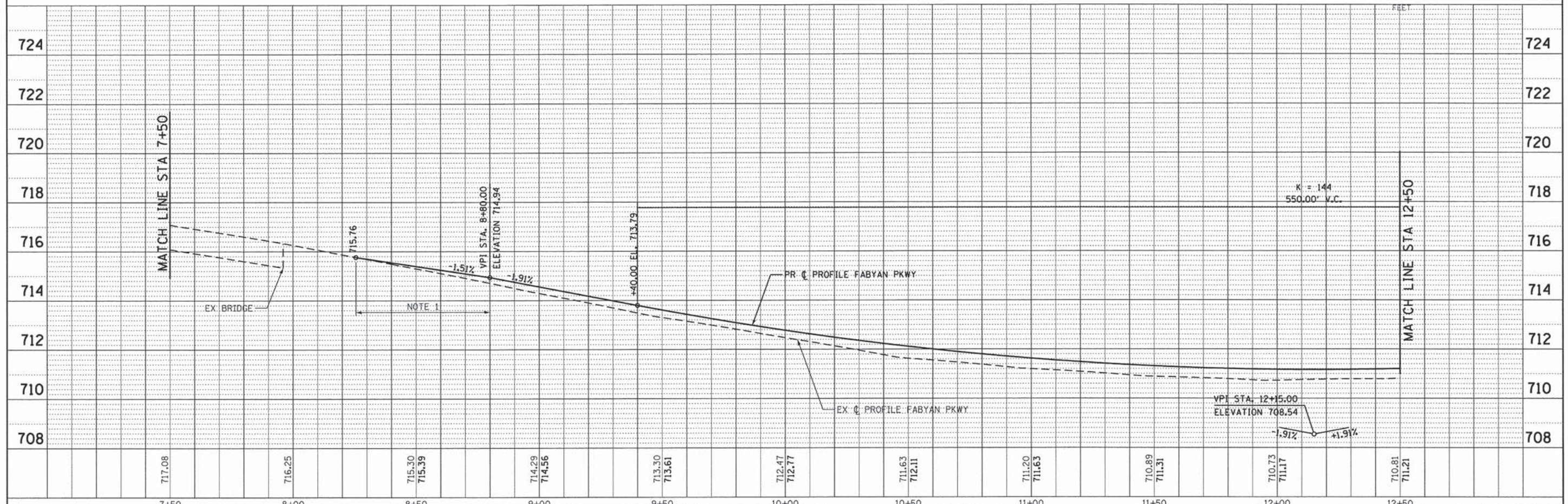
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	11
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
SURVEYED	
NOTE BOOK	
ALIGNED	
CHECKED	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
GRADES CHECKED	
NO.	



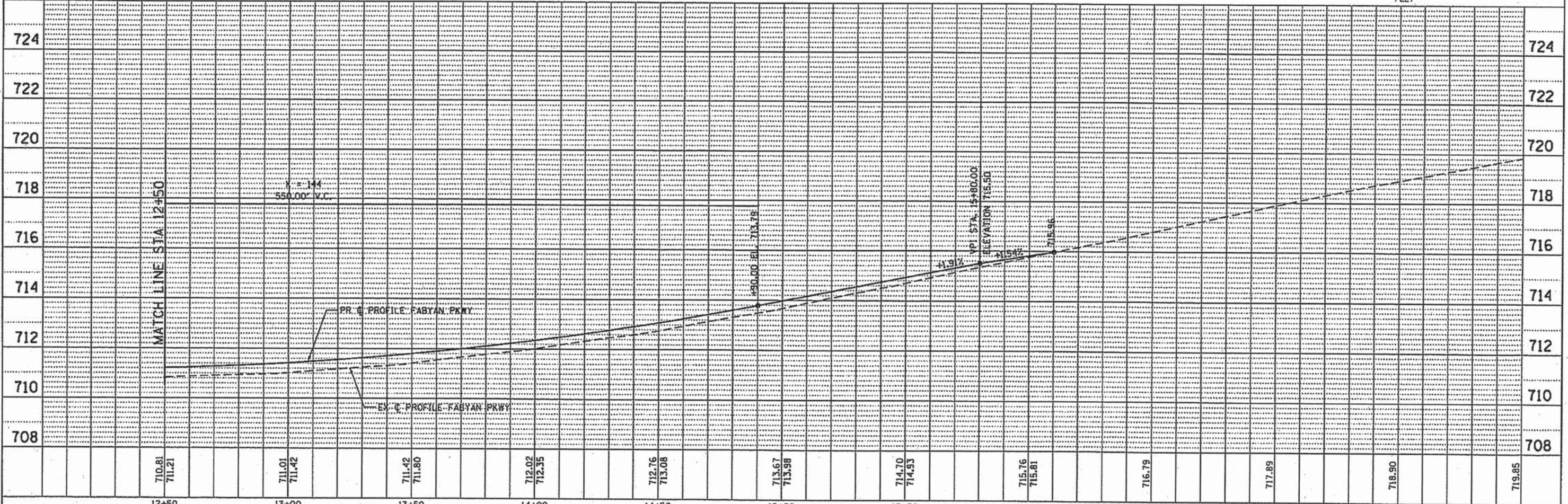
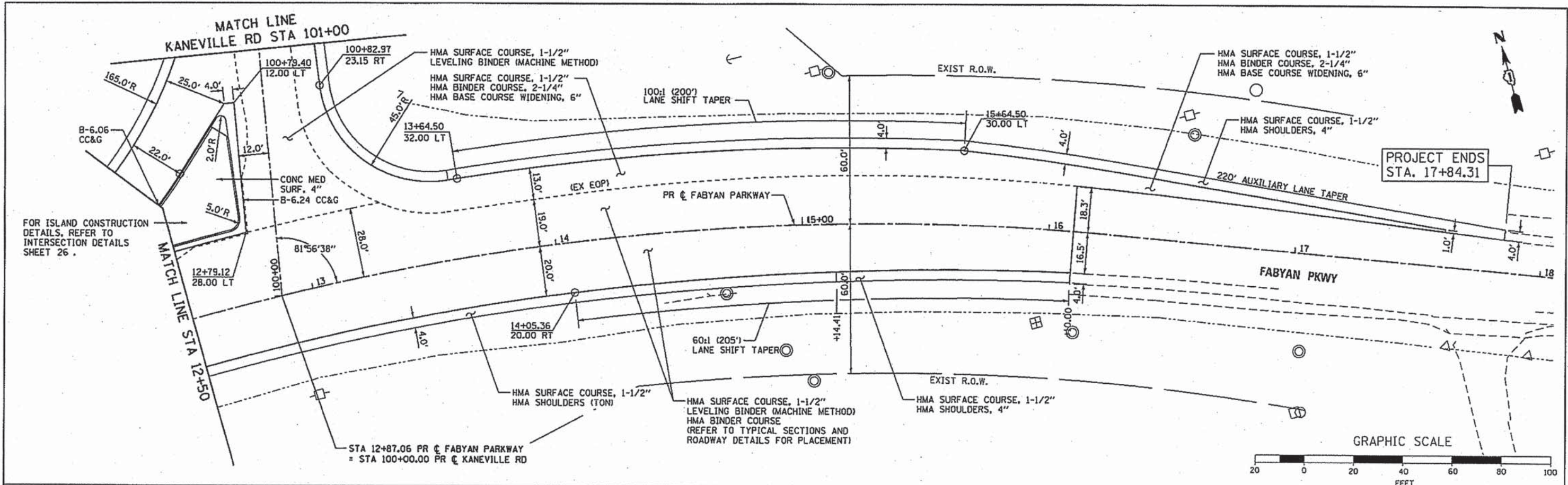
- NOTES**
- SLOPE VARIES. TRANSITION FROM EXISTING SLOPE(S) AT EDGE OF APPROACH PAVEMENT TO 6.0% AT STA 8+80.00.
 - FOR ISLAND CONSTRUCTION DETAILS, REFER TO INTERSECTION DETAILS SHEET 26 .



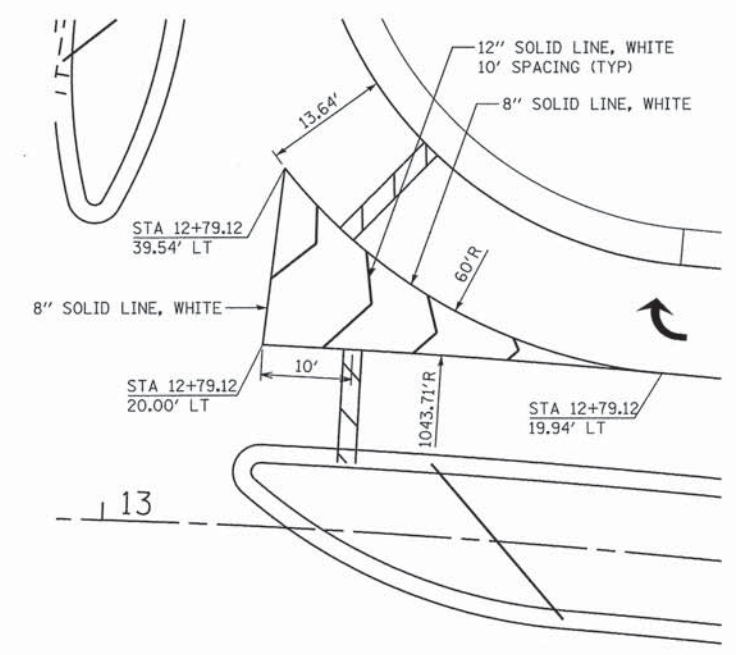
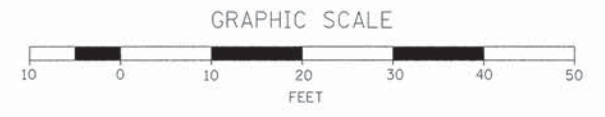
BURNS MEDONNELL 200 W. ADAMS STREET / SUITE 1600 CHICAGO, IL 60606 P: (312) 223-0820 / F: (312) 223-9664 WEB: WWW.BURNSMCD.COM	USER NAME = r.jiang	DESIGNED - MAP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FABYAN PARKWAY AT KANEVILLE ROAD PROPOSED PLAN AND PROFILE - FABYAN PARKWAY		F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 14		
	PLOT SCALE = 20.0000' / 1" =	CHECKED - RMG	REVISED -		SCALE: 1"=20'	SHEET 2 OF 3 SHEETS	STA. 7+50 TO STA. 12+50	CONTRACT NO. 61B45					
	PLOT DATE = 4/6/2015	DATE - 01/16/2015	REVISED -		ILLINOIS FED. AID PROJECT								

DATE	
BY	
PLAN	
SUBMITTED	
PLOTTED	
CHECKED	
REVISIONS	
NO. OF SHEETS	
NO. OF THIS SHEET	
NO. OF THIS SHEET	
NO. OF THIS SHEET	

DATE	
BY	
PROFILE	
SUBMITTED	
PLOTTED	
CHECKED	
REVISIONS	
NO. OF SHEETS	
NO. OF THIS SHEET	
NO. OF THIS SHEET	
NO. OF THIS SHEET	



BURNS & MCDONNELL 200 N. ADAMS STREET / SUITE 1600 CHICAGO, IL 60606 P: (312) 223-0920 / F: (312) 223-9664 WEB: WWW.BURNSMCDONNELL.COM		USER NAME = r.jiang DESIGNED - MAP DRAWN - RGJ CHECKED - RMG DATE - 01/16/2015	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		FABYAN PARKWAY AT KANEVILLE ROAD PROPOSED PLAN AND PROFILE - FABYAN PARKWAY		F.A.P. RTE. 523 SECTION 11-00420-00-CH COUNTY KANE TOTAL SHEETS 64 SHEET NO. 15 CONTRACT NO. 61B45
SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. 12+50 TO STA. 17+84.31								ILLINOIS FED. AID PROJECT



PAINTED ISLAND DETAIL

**BURNS
MEDONNELL**
200 W. ADAMS STREET / SUITE 1600
CHICAGO, IL 60606
P: (312)-223-0920 / F: (312)-223-9664
WEB: WWW.BURNSMCD.COM

USER NAME = r.jiang	DESIGNED - MAP	REVISED -
	DRAWN - RGJ	REVISED -
PLOT SCALE = 18.0000" / 1"	CHECKED - RMG	REVISED -
PLOT DATE = 3/13/2015	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS

SCALE: AS SHOWN	SHEET	OF	SHEETS	STA.	TO STA.
-----------------	-------	----	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	17
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. TRAFFIC CONTROL WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
2. ALL TRAFFIC CONTROL DEVICES AND SIGNAGE REQUIRED IN ACCORDANCE WITH APPLICABLE IDOT DISTRICT 1 STANDARDS, IDOT HIGHWAY STANDARDS, AND CONTRACT DRAWINGS ARE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
3. LANE CLOSURES, SIGNING, PAVEMENT MARKING AND BARRICADE PLACEMENT SHALL BE IN ACCORDANCE WITH THE INCLUDED IDOT STANDARD DRAWINGS AND IDOT DISTRICT 1 STANDARD DETAILS.
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS THAT CONFLICT WITH THE TEMPORARY TRAFFIC LANES SHALL HAVE THE REFLECTIVE LENSES REMOVED, AS DIRECTED BY THE ENGINEER, AND REPLACED AT THE END OF THE PROJECT. THE COST OF THE REMOVAL AND REPLACEMENT OR THE EXISTING RAISED REFLECTIVE PAVEMENT MARKER LENSES IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
5. ADVANCE SIGNING PER IDOT DISTRICT 1 DETAIL TC-22 SHALL BE USED ON FABYAN PARKWAY, EXCEPT AS MODIFIED HEREIN. SIGNS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR TEMPORARY INFORMATION SIGNING AT THE DIMENSIONS SPECIFIED IN THE DETAIL.
6. VERTICAL BARRICADES CONFORMING TO IDOT STANDARD 701901 MAY BE USED IN AREAS WHERE AN 11-FOOT WIDE TRAFFIC LANE CAN NOT BE MAINTAINED WITH DRUMS.
7. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
8. ALL DRUMS, VERTICAL PANELS, AND BARRICADES IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH STEADY BURN BI-DIRECTIONAL LIGHTS. CONES WILL NOT BE ALLOWED, UNLESS NOTED. DRUM SPACING SHALL BE 50' CENTER TO CENTER.
9. ANY EXISTING SIGNS DENOTED WITHIN THE PLAN SET THAT DO NOT APPLY TO THE REVISED TRAFFIC PATTERNS SHALL BE REMOVED OR COVERED, AS DIRECTED BY THE ENGINEER. THE COVERING OR REMOVAL OF GROUND MOUNTED SIGNS SHALL BE NON-DESTRUCTIVE IN NATURE AND WILL NOT BE MEASURED FOR PAYMENT BUT IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
10. ADVANCE SIGNING AND WORK LIMIT SIGNING SHALL CONFORM TO APPLICABLE IDOT HIGHWAY STANDARDS. SIGNS THAT INCORRECTLY IDENTIFY A WORK ZONE OR END CONSTRUCTION SHALL BE REMOVED OR COVERED.
11. ALL TEMPORARY PAVEMENT MARKINGS SHOWN ON THE PLANS ARE PAVEMENT MARKING TAPE, TYPE III OF THE LINE WIDTH SPECIFIED.
12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ACCESS POINTS TO THE WORK ZONE. ACCESS POINTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ANY SIGNING OR ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED TO PROVIDE CONTRACTOR ACCESS TO THE WORK ZONE IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL), AND WILL NOT BE PAID FOR SEPARATELY.
13. ALL TYPE I AND TYPE II BARRICADES WILL REQUIRE BALLAST (A MINIMUM OF TWO SANDBAGS PER BARRICADE) TO HOLD THEM IN PLACE. SANDBAGS SHALL BE PLACED ON BARRICADE LEGS, OVER THE BOTTOM RAILS WHICH ARE NOT FACING TRAFFIC.

STAGING SUMMARY

STAGE 1

TRAFFIC CONFIGURATION

1. FABYAN PARKWAY TRAFFIC IN ITS CURRENT EXISTING CONFIGURATION.
2. KANEVILLE ROAD IN ITS CURRENT EXISTING CONFIGURATION.

WORK PERFORMED

1. CONSTRUCT TEMPORARY PAVEMENT ADJACENT TO THE NORTHEASTBOUND LANE OF KANEVILLE ROAD AT THE LOCATION SHOWN ON THE PLANS.
2. RE-GRADE THE DITCH ON THE EASTBOUND SIDE OF FABYAN PARKWAY PER THE PROPOSED CROSS SECTIONS AND GRADING PLAN.
3. RECONSTRUCT THE NORTHEASTBOUND SHOULDER OF KANEVILLE ROAD BETWEEN STA 104+31 AND STA 105+75.

STAGE 2

TRAFFIC CONFIGURATION

1. FABYAN PARKWAY TRAFFIC SHIFTED TO THE SOUTH, IN THREE 11-FOOT LANES.
2. KANEVILLE ROAD TRAFFIC SHIFTED TO THE EAST, IN TWO 11-FOOT LANES.
3. DETOUR INSTALLED FOR TRAFFIC BETWEEN NORTH LEG OF KANEVILLE RD AND EAST LEG OF FABYAN PARKWAY.

WORK PERFORMED

1. CONSTRUCT NEW CULVERT UNDER KANEVILLE ROAD USING SHORT-TERM LANE CLOSURES.
2. CONSTRUCT NEW WB AUXILIARY LANE BETWEEN MILL CREEK ROAD AND KANEVILLE ROAD.
3. CONSTRUCT NEW TURNING ROADWAY AND AUXILIARY LANE ALONG KANEVILLE ROAD, INCLUDING GRADING, GUARDRAIL, TRAFFIC ISLAND AND MAST ARM FOUNDATION.
4. CONSTRUCT TRAFFIC SIGNAL HANDHOLE AT NW CORNER OF INTERSECTION AND INSTALL INTERCONNECT CONDUIT BETWEEN MILL CREEK ROAD AND KANEVILLE ROAD.

STAGE 3

TRAFFIC CONFIGURATION

1. FABYAN PARKWAY REMAINS SHIFTED TO THE SOUTH IN STAGE 1 TRAFFIC CONFIGURATION.
2. SHIFT KANEVILLE ROAD TRAFFIC TO WEST, WITH SOUTHBOUND KANEVILLE ROAD TRAFFIC USING TURNING ROADWAY.
3. DETOUR REMAINS IN PLACE FOR TRAFFIC TRAVELING BETWEEN EAST AND NORTH LEGS OF INTERSECTION.

WORK PERFORMED

1. CONSTRUCT NEW WB RT TURN LANE ON FABYAN PARKWAY.
2. CONSTRUCT LEVELING BINDER COURSE ON CLOSED PORTION OF KANEVILLE ROAD.
3. CONSTRUCT SIGNAL FOUNDATIONS IN NE QUADRANT OF INTERSECTION.

STAGE 4

TRAFFIC CONFIGURATION

1. FABYAN PARKWAY AND KANEVILLE ROAD TRAFFIC IN PROPOSED PERMANENT CONFIGURATION. DETOUR REMOVED. ALL TURNING MOVEMENTS OPEN TO TRAFFIC.

WORK PERFORMED

1. CONSTRUCT BINDER COURSES AND NEW EAST-BOUND-SIDE SHOULDER ON FABYAN PARKWAY USING SHORT-TERM LANE CLOSURES.
2. CONSTRUCT NEW SURFACE COURSE AND INSTALL PERMANENT PAVEMENT MARKINGS.
3. INSTALL REMAINING SIGNAL FOUNDATIONS AND ALL TRAFFIC SIGNAL EQUIPMENT. TEST AND ACTIVATE TRAFFIC SIGNAL.

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 CHICAGO, IL 60606
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USER NAME = r.jiang	DESIGNED - MAP	REVISED -
	DRAWN - RGJ	REVISED -
PLOT SCALE = 58.0000 "/ in.	CHECKED - RMG	REVISED -
PLOT DATE = 3/13/2015	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC -
 GENERAL NOTES AND SUMMARY**

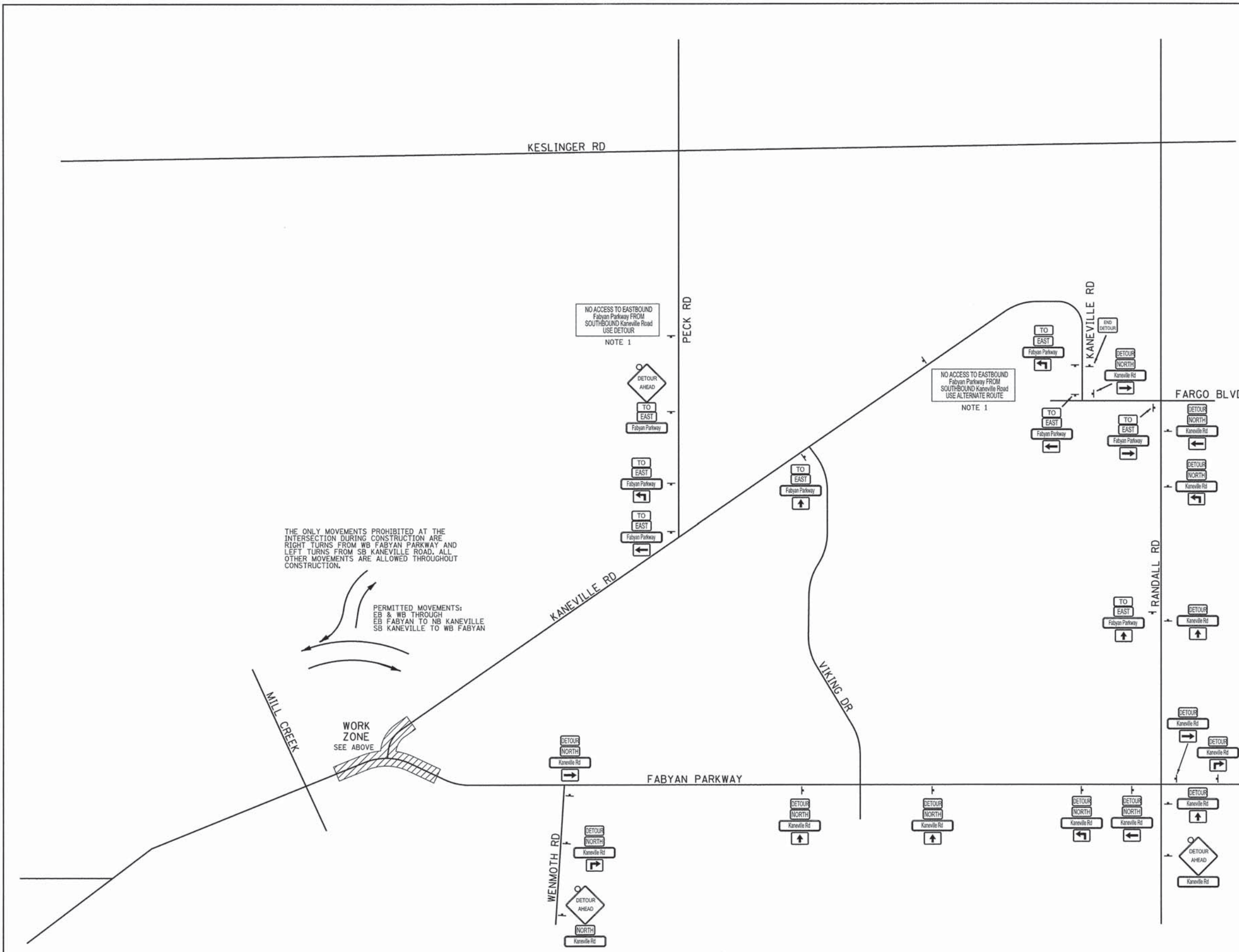
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	18
CONTRACT NO. 61B45				
<small>ILLINOIS FED. AID PROJECT</small>				



PANEL

	M4-1a (O) 24"x12"
	M3-1 (O) 24"x12"
	M3-1 (O) 24"x12"
	M3-2 (O) 24"x12"
	M5-1 (O) (L) 21"x15"
	M5-1 (O) (R) 21"x15"
	M6-1 (O) (L) 21"x15"
	M6-1 (O) (R) 21"x15"
	M6-3 (O) 21"x15"
	W16-8P (O)
	W16-8P (O)
	M4-8a 24"x18"
	W20-2 / 36"x36" (WITH FLAG AND FLASHING HIGH-INTENSITY AMBER LIGHT)



THE ONLY MOVEMENTS PROHIBITED AT THE INTERSECTION DURING CONSTRUCTION ARE RIGHT TURNS FROM WB FABYAN PARKWAY AND LEFT TURNS FROM SB KANEVILLE ROAD. ALL OTHER MOVEMENTS ARE ALLOWED THROUGHOUT CONSTRUCTION.

PERMITTED MOVEMENTS:
 EB & WB THROUGH
 EB FABYAN TO NB KANEVILLE
 SB KANEVILLE TO WB FABYAN

NOTES

1. ADVANCE NOTICE SIGNS SHALL BE PREPARED AND INSTALLED CONSISTENT WITH IDOT DISTRICT 1 DETAIL TC-22.

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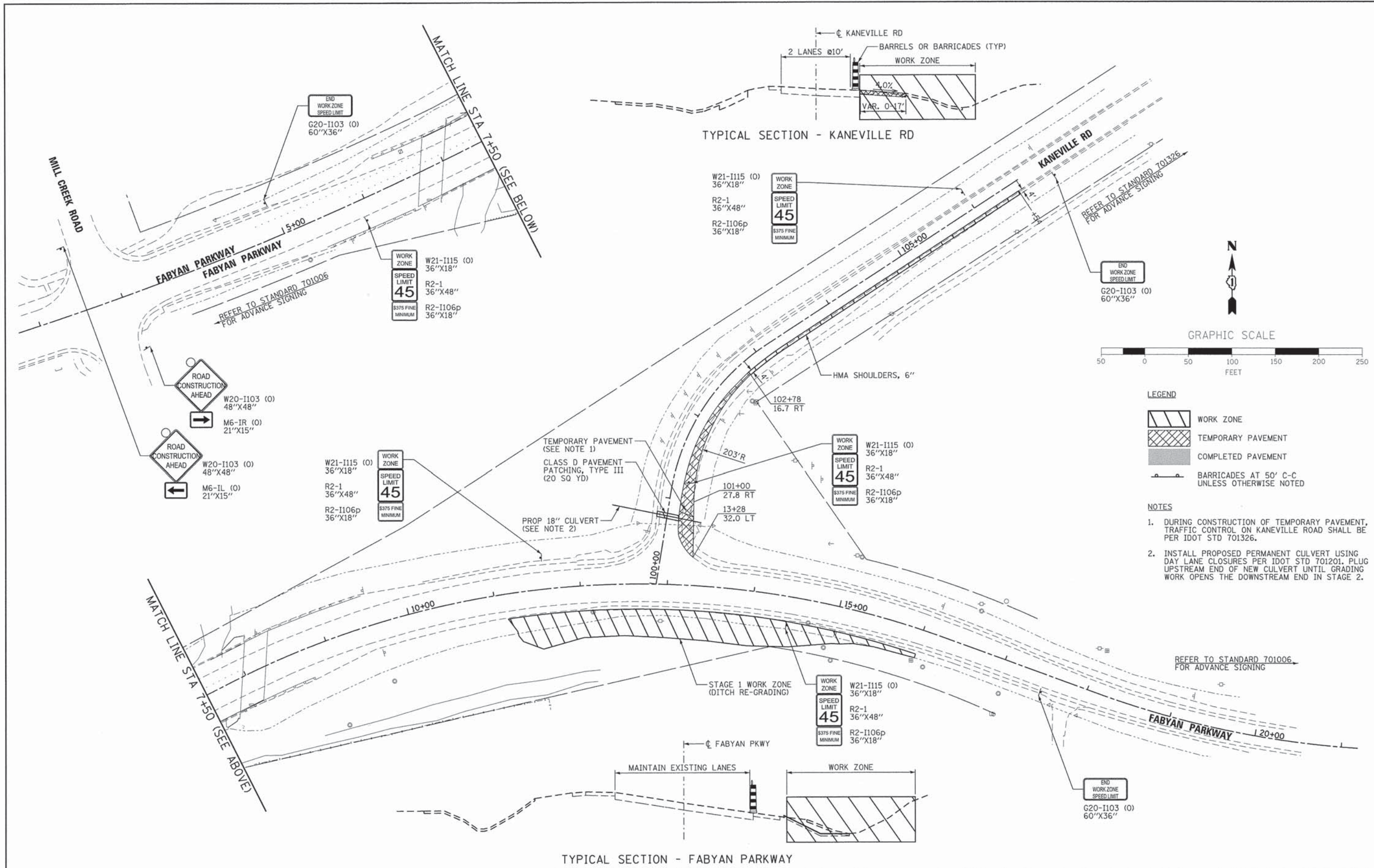
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	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC -
 DETOUR PLAN**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 19
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



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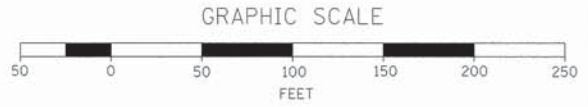
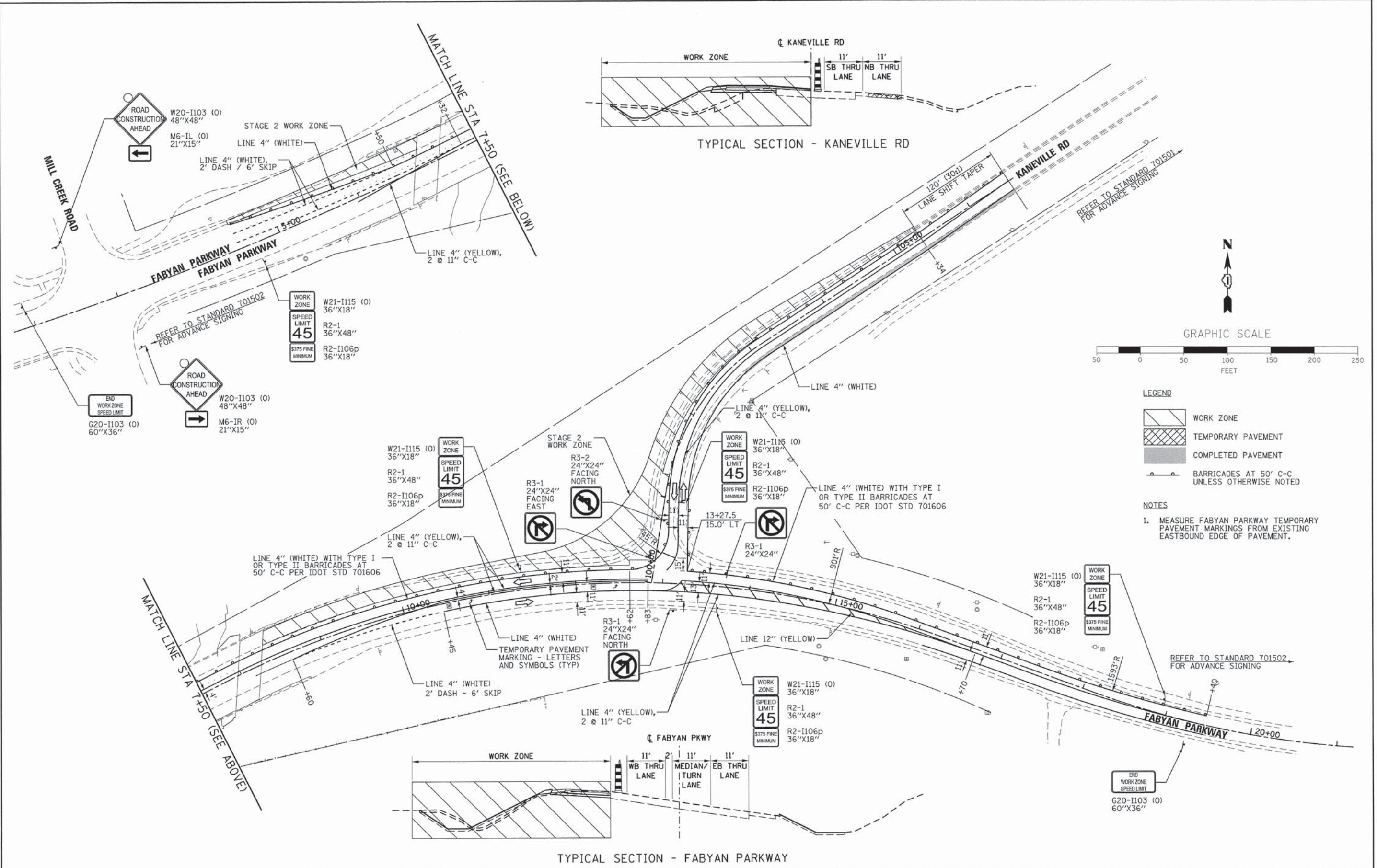
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PLOT DATE = 4/3/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC -
 STAGE 1 CONSTRUCTION**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

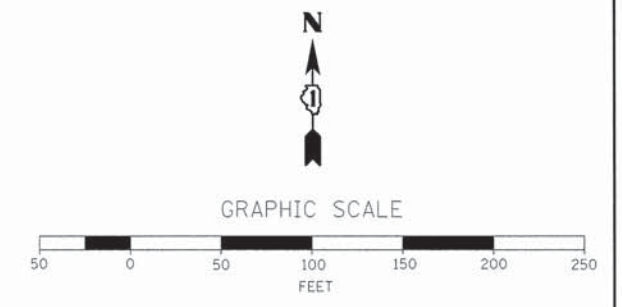
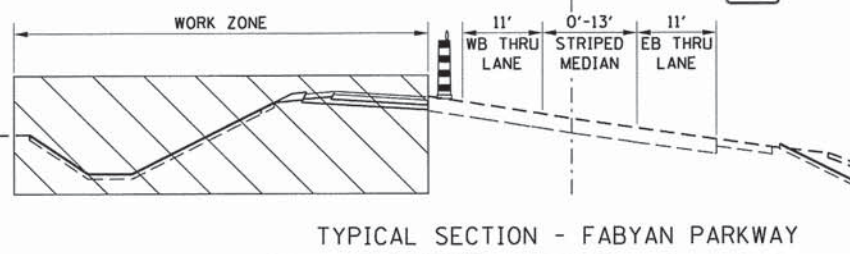
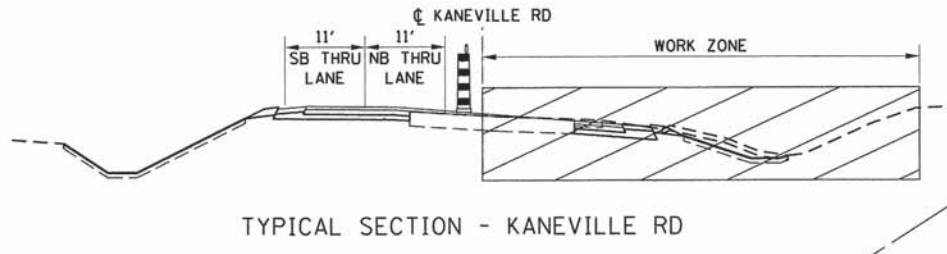
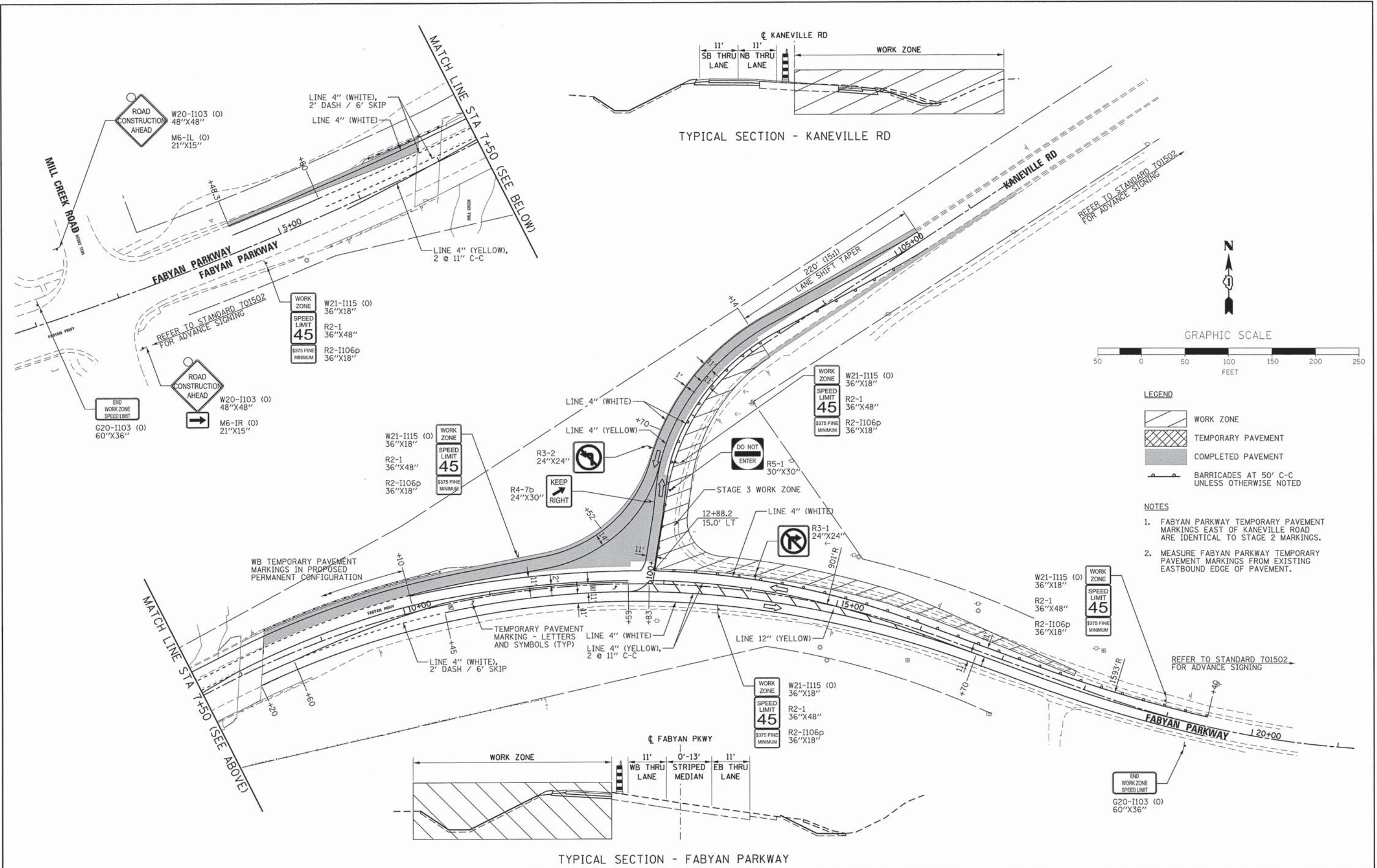
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	20
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- WORK ZONE
 - TEMPORARY PAVEMENT
 - COMPLETED PAVEMENT
 - BARRICADES AT 50' C-C UNLESS OTHERWISE NOTED

- NOTES**
- MEASURE FABYAN PARKWAY TEMPORARY PAVEMENT MARKINGS FROM EXISTING EASTBOUND EDGE OF PAVEMENT.

BURNS MEDONNELL 200 W. ADAMS STREET / SUITE 1600 CHICAGO, IL 60606 P: (312) 223-0920 / F: (312) 223-9664 WEB: WWW.BURNSMCD.COM	USER NAME = mpapirnik	DESIGNED - MAP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC - STAGE 2 CONSTRUCTION		F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 21
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	PLOT DATE = 4/3/2015	CHECKED - RMG	REVISED -				ILLINOIS FED. AID PROJECT				
	DATE - 03/16/2015	DATE - 03/16/2015	REVISED -				SCALE: 1"=50'				
							SHEET OF SHEETS STA. TO STA.				



- LEGEND**
- WORK ZONE
 - TEMPORARY PAVEMENT
 - COMPLETED PAVEMENT
 - BARRICADES AT 50' C-C UNLESS OTHERWISE NOTED

- NOTES**
1. FABYAN PARKWAY TEMPORARY PAVEMENT MARKINGS EAST OF KANEVILLE ROAD ARE IDENTICAL TO STAGE 2 MARKINGS.
 2. MEASURE FABYAN PARKWAY TEMPORARY PAVEMENT MARKINGS FROM EXISTING EASTBOUND EDGE OF PAVEMENT.

BURNS & MCDONNELL 200 W. ADAMS STREET / SUITE 1600 CHICAGO, IL 60606 P: (312) 223-9200 / F: (312) 223-9664 WEB: WWW.BURNSMCD.COM	USER NAME = mpepitrnk	DESIGNED - MAP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC - STAGE 3 CONSTRUCTION			F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 22	
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	PLOT DATE = 4/3/2015	DATE - 03/16/2015	REVISED -		ILLINOIS FED. AID PROJECT								

EROSION CONTROL GENERAL NOTES

1. ALL PROVISIONS FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL COMPLY WITH ALL THE CONDITIONS STIPULATED IN THE GENERAL NPDES PERMIT NO. ILR10 EFFECTIVE AUGUST 1, 2013 AND AS MODIFIED APRIL 30, 2014.
2. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE PHASED PRIOR TO THE COMMENCEMENT OF ANY UPLAND DISTURBANCE. SOIL DISTURBANCE SHALL BE PHASED AND CONSTRUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION.
3. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED, AT A MINIMUM, ACCORDING TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE ILLINOIS URBAN MANUAL, REVISED TO THE LATEST EDITION AS AMENDED. A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IN CONJUNCTION WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
4. THE INSTALLATION, MAINTENANCE, REMOVAL AND RESTORATION OF THE AREA DISTURBED BY THE PLACEMENT OF THE PERIMETER EROSION BARRIER ARE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER. AREAS DAMAGED BY THE PLACEMENT OF THE PERIMETER EROSION BARRIER WILL BE RESTORED AFTER ALL PERIMETER EROSION BARRIER IS REMOVED.
5. THE CONTRACTOR SHALL CLEAN UP AND GRADE THE WORK AREA AS THE PROJECT PROGRESSES TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR SHALL INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT SHALL BE CLEANED DAILY TO REMOVE EARTHEN MATERIAL TO THE SATISFACTION OF THE RESIDENT ENGINEER.
6. ALL STORM SEWER INLET STRUCTURES SHALL BE PROTECTED WITH STORM SEWER INLET FILTERS AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
7. THE CONTRACTOR SHALL MAINTAIN AND PRESERVE ANY EXISTING SUB-SURFACE DRAINAGE SYSTEMS, SUCH AS FIELD TILES, ACCORDING TO EXISTING DESIGN AND CONSTRUCTION STANDARDS.
8. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE THE TIME SOIL IS EXPOSED AND UNPROTECTED. IN NO CASE SHALL THE EXISTING VEGETATION BE DESTROYED, REMOVED, OR DISTURBED MORE THAN FOURTEEN (14) DAYS PRIOR TO THE INITIATION OF IMPROVEMENTS.
9. TEMPORARY AND/OR PERMANENT SOIL STABILIZATION (VEGETATION OR HARDSCAPE) SHALL BE APPLIED TO EXPOSED AREAS AS SOON AS POSSIBLE. AS A MINIMUM, SOIL STABILIZATION SHALL BE PROVIDED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE AND WITHIN SEVEN (7) DAYS TO EXPOSED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS. QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL. QUALIFIED PERSONNEL ARE PERSONS KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS A LICENSED PROFESSIONAL ENGINEER, A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORMWATER INSPECTOR (CESSWI), OR OTHER KNOWLEDGEABLE PERSON WHO POSSESS THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER QUALITY AND MEASURES SELECTED TO CONTROL THE QUANTITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITIES.
10. THE CONTRACTOR SHALL MAKE INSPECTIONS A MINIMUM OF ONCE EVERY SEVEN (7) DAYS OF THE FOLLOWING:
DISTURBED AREAS OF THE PROJECT SITE THAT HAVE NOT BEEN FULLY STABILIZED.
STRUCTURAL CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS.
LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE.
11. THE CONTRACTOR SHALL KEEP A WRITTEN REPORT SUMMARIZING THE REQUIRED INSPECTION EACH TIME AN INSPECTION TAKES PLACE. THE REPORTS MUST BE RETAINED FOR THREE (3) YEARS FROM THE DATE THAT THE NPDES ILR10 PERMIT COVERAGE EXPIRES OR IS TERMINATED.
12. THE INSPECTOR SHALL NOTIFY THE APPROPRIATE AGENCY FIELD OPERATIONS SECTION OFFICE WITHIN 24 HOURS OF ANY INCIDENCE OF NON-COMPLIANCE FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING ANY INSPECTION CONDUCTED, OR FOR VIOLATIONS OF ANY CONDITION OF THIS PERMIT. NOTIFICATION SHALL BE MADE VIA E-MAIL AT epg.swhoncomp@illinois.gov, TELEPHONE, OR FAX. THE INSPECTOR MUST FILL OUT AND FILE WITHIN FIVE (5) DAYS TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND INCIDENCE OF NON-COMPLIANCE (ION) FORM WHEN REQUIRED BY THE PERMIT. THE REPORT SHALL INCLUDE THE FOLLOWING:
SCOPE OF INSPECTION
NAMES OF QUALIFIED PERSONNEL MAKING SAID INSPECTION
DATE OF SAID INSPECTION
MAJOR OBSERVATIONS INCLUDING IDENTIFIED POTENTIAL POLLUTANT SOURCES RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN
ACTIONS TAKEN BASED ON THE RESULTS OF THE INSPECTION.
13. THE CONTRACTOR MUST COOPERATE WITH ANY AGENTS WHO MAKE THE SITE VISITS TO REVIEW COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN THE FIELD AND AUDIT THE LOGS AND RECORDS REQUIRED BY THE PERMIT.
14. STOCKPILES OF SOIL SHALL NOT BE LOCATED WITHIN FLOODPLAINS, RIPARIAN AREAS, WETLANDS OR WATERS OF THE US.
15. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE (3) DAYS, THEN SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR SAID STOCKPILE. SEDIMENT AND EROSION CONTROL MAY BE COMPRISED OF SILT FENCE SURROUNDING THE STOCKPILE OR A COVERING OVER THE STOCKPILE.
16. IF THE VOLUME, VELOCITY, SEDIMENT LOAD OR PEAK FLOW RATES OF STORMWATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION THEN PROPERTIES AND SPECIAL MANAGEMENT AREAS DOWNSTREAM FROM SUCH DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION.
17. GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SILT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY MUD, SOIL OR DEBRIS REACHING PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED IMMEDIATELY.
18. THE CONTRACTOR SHALL CONSULT WITH A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL FOR THE MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES.
19. ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND IMMEDIATELY REPLACED AS NEEDED AND AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INSPECTION, MAINTENANCE AND REPAIR.
20. ALL TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, INCLUDING PERIMETER EROSION BARRIER, MUST BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL STABILIZATION IS COMPLETED, PROVIDED THAT SEEDING IS AT LEAST 90% ESTABLISHED OR OTHERWISE APPROVED BY THE ENGINEER.
21. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DIRT AND DEBRIS UPON COMPLETION OF ALL THE SITE WORK INCLUDING GROUND COVER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT FOR EROSION AND SEDIMENT CONTROL.
22. DUST SHALL BE CONTROLLED BY THE UNIFORM APPLICATION OF WATER BY THE CONTRACTOR.
23. EROSION CONTROL DEVICES MUST BE IN PLACE AND FUNCTIONAL BEFORE SOIL OR VEGETATION IS DISTURBED.
24. ANY INLET PROTECTION SHALL BE CONSTRUCTED BEFORE LAND DISTURBANCE BEGINS.
25. TEMPORARY DITCH CHECKS SHALL BE CONSTRUCTED SUCH THAT THE CENTER IS APPROXIMATELY 6-INCHES LOWER THAN THE OUTER EDGES SO WATER WILL FLOW ACROSS THE CENTER AND NOT AROUND THE ENDS. SPACING BETWEEN TEMPORARY DITCH CHECKS SHALL BE AS SHOWN ON THE PLANS.
26. ANY AGGREGATE BASE EROSION CONTROL MEASURES SHALL BE REMOVED AND REPLACED WITH NEW AGGREGATE WHEN STRUCTURE BECOMES PLUGGED, SILT LADEN OR AS REQUIRED BY INSPECTION.
27. ALL GREEN AREAS RESTORED TO PRE- CONSTRUCTION CONDITIONS WILL BE STABILIZED WITH TOPSOIL, SEED, AND TEMPORARY EROSION CONTROL BLANKET AS CONTAINED HEREIN.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY DRAINAGE DURING THE PROJECT. DAMAGE TO THE SUBGRADE, EXISTING FACILITIES AND/OR CONSTRUCTED WORK WILL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE RESIDENT ENGINEER AT NO ADDITIONAL COST. ANY ALTERATIONS OR ADDITIONS TO THE EXISTING SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL AND EITHER ADDED TO THE EXISTING PLAN OR UTILIZED IN PLACE OF THE EXISTING PLAN.
29. ALL OTHER SOIL EROSION CONTROL DEVICES AND MEASURES DEEMED NECESSARY BY THE INSPECTOR OR COUNTY SHALL BE IMPLEMENTED IMMEDIATELY UPON NOTIFICATION.

BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
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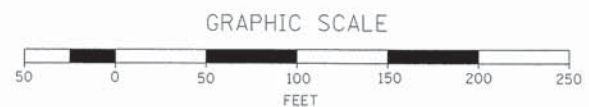
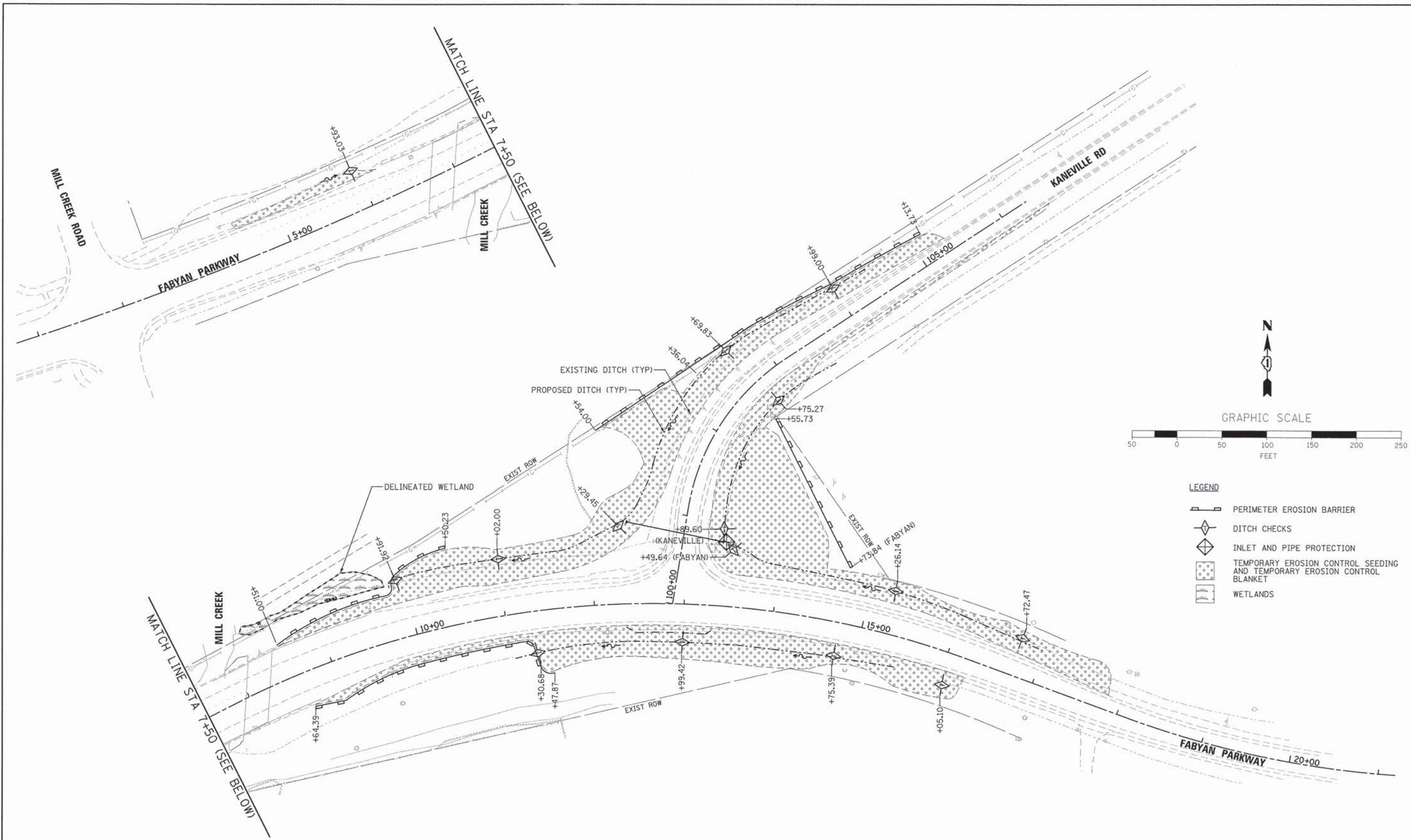
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PLOT DATE = 3/13/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
 GENERAL NOTES**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	23
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- PERIMETER EROSION BARRIER
 - DITCH CHECKS
 - INLET AND PIPE PROTECTION
 - TEMPORARY EROSION CONTROL SEEDING AND TEMPORARY EROSION CONTROL BLANKET
 - WETLANDS

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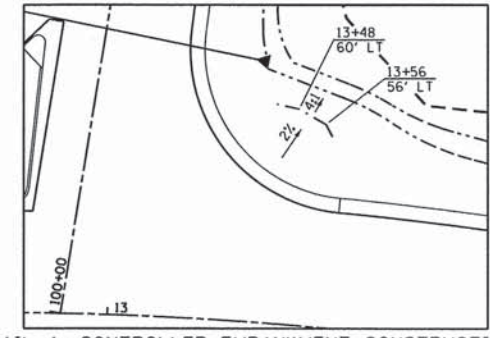
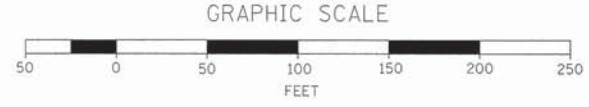
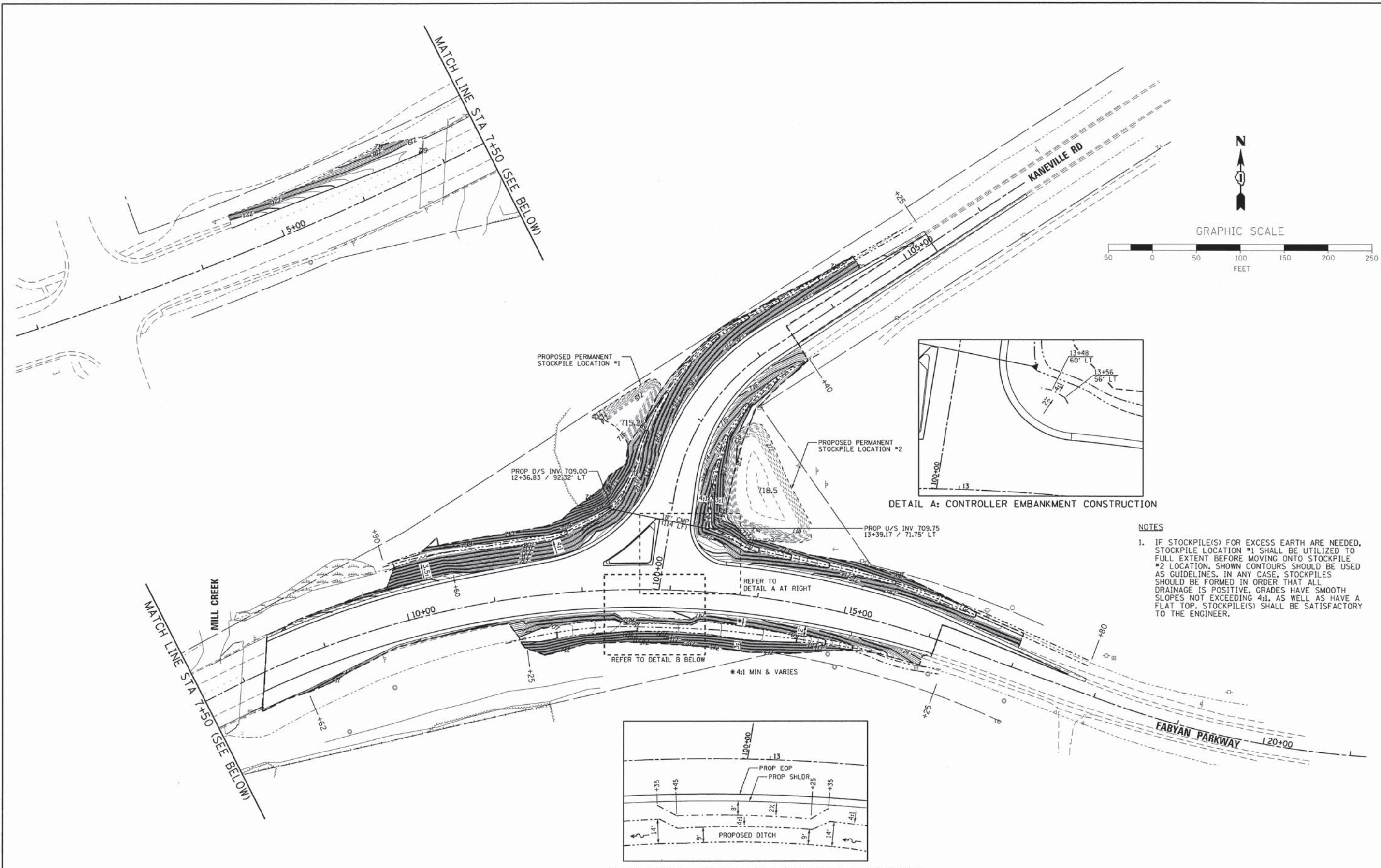
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PLOT SCALE = 50.0000' / 1"	DRAWN - RGJ	REVISED -
PLOT DATE = 3/15/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

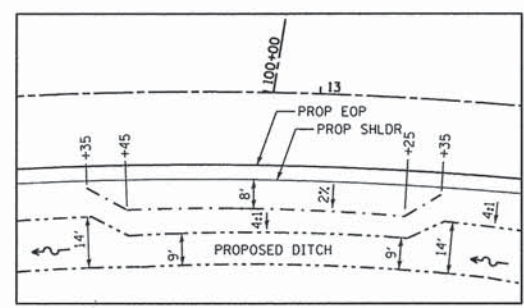
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	24
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



DETAIL A: CONTROLLER EMBANKMENT CONSTRUCTION

NOTES

1. IF STOCKPILE(S) FOR EXCESS EARTH ARE NEEDED, STOCKPILE LOCATION #1 SHALL BE UTILIZED TO FULL EXTENT BEFORE MOVING ONTO STOCKPILE #2 LOCATION. SHOWN CONTOURS SHOULD BE USED AS GUIDELINES. IN ANY CASE, STOCKPILES SHOULD BE FORMED IN ORDER THAT ALL DRAINAGE IS POSITIVE, GRADES HAVE SMOOTH SLOPES NOT EXCEEDING 4:1, AS WELL AS HAVE A FLAT TOP. STOCKPILE(S) SHALL BE SATISFACTORY TO THE ENGINEER.



DETAIL B: POST AND MAST ARM EMBANKMENT CONSTRUCTION

BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312)-223-0920 / F: (312)-223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = mpapirnsk
 PLOT SCALE = 50.0000' / 1" = 50'
 PLOT DATE = 3/16/2015

DESIGNED - MAP
 DRAWN - RGJ
 CHECKED - RMG
 DATE - 03/16/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

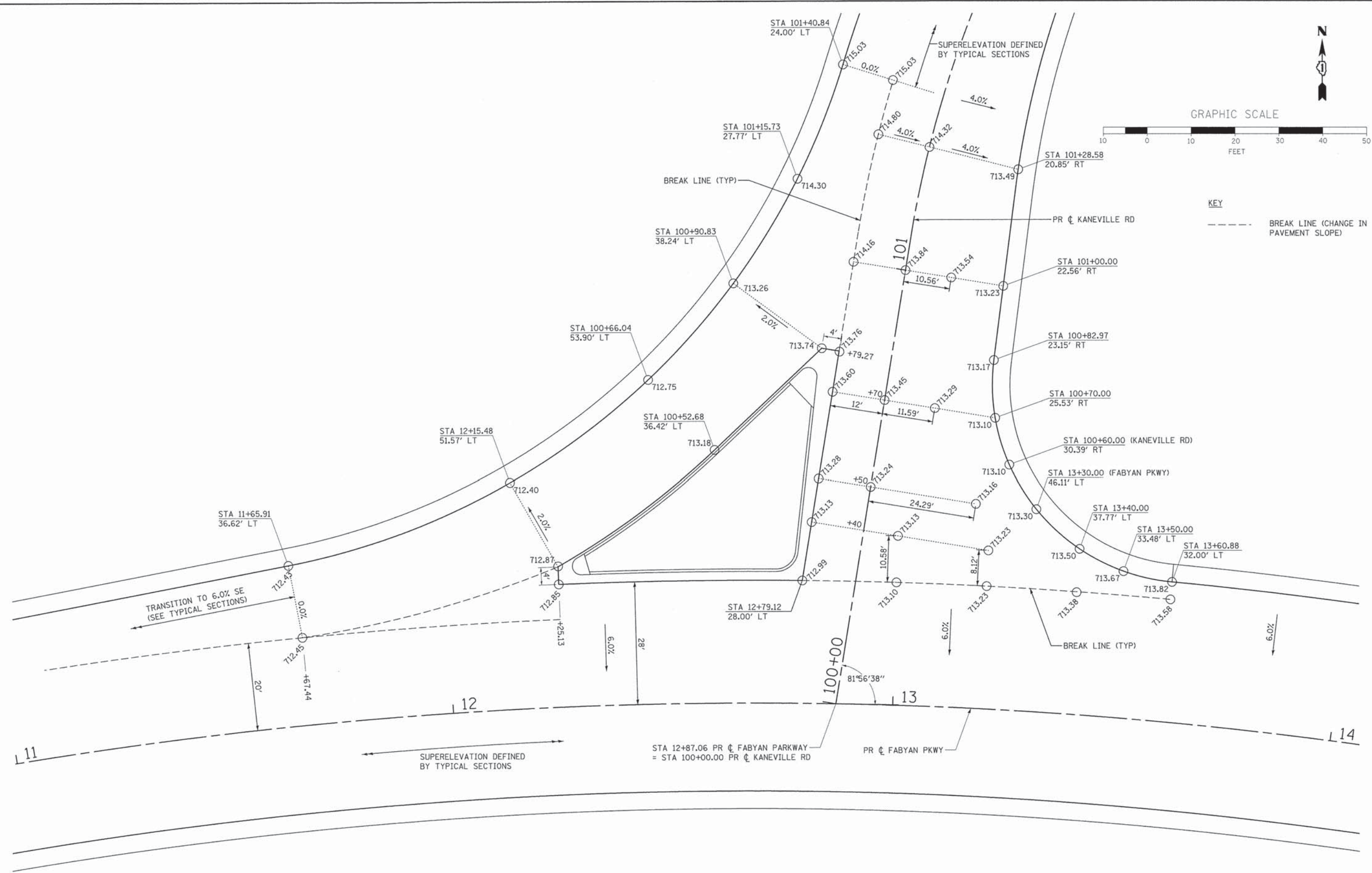
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED DRAINAGE AND
 GRADING PLAN**
 SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	25
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



KEY
 - - - - - BREAK LINE (CHANGE IN PAVEMENT SLOPE)



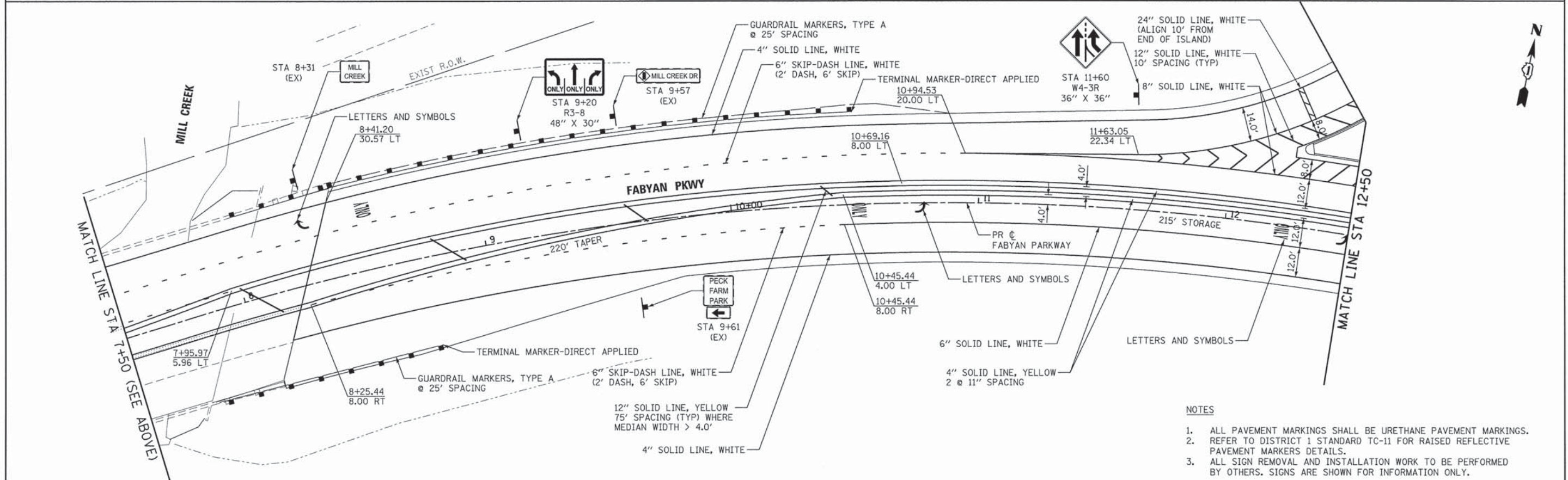
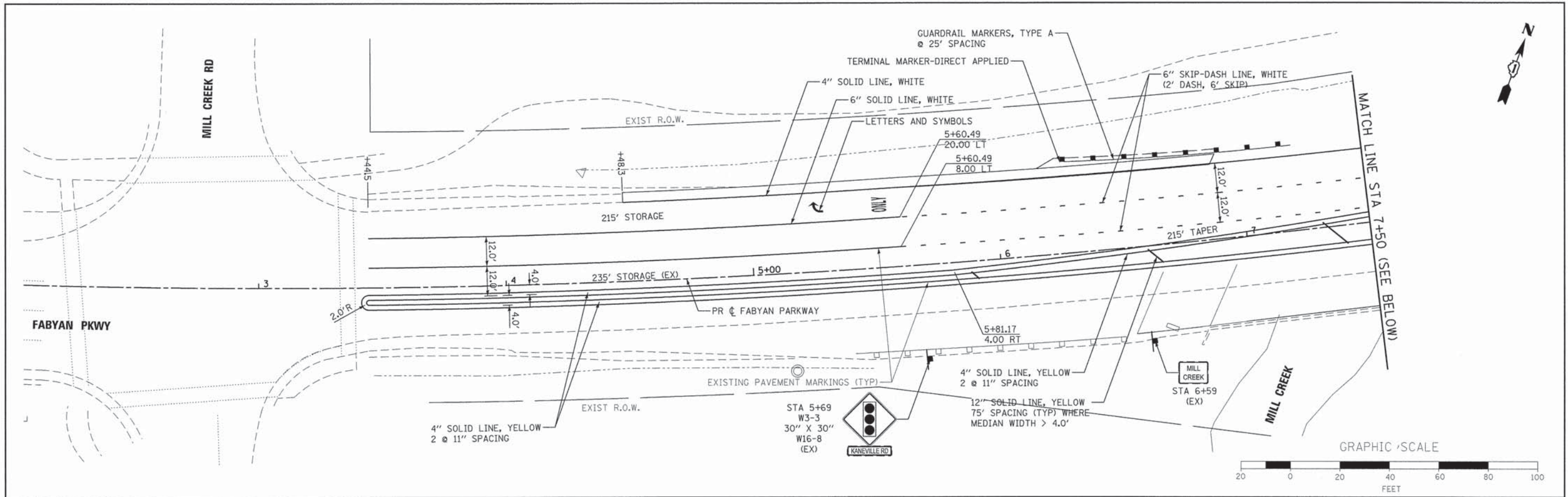
BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312) 223-0920 / F: (312) 223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = r.j.seng	DESIGNED - MAP	REVISED -
PLOT SCALE = 10.0000' / 1" =	DRAWN - RGJ	REVISED -
PLOT DATE = 3/13/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

INTERSECTION DETAILS			
SCALE: 1"=10'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	26
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



- NOTES**
1. ALL PAVEMENT MARKINGS SHALL BE URETHANE PAVEMENT MARKINGS.
 2. REFER TO DISTRICT 1 STANDARD TC-11 FOR RAISED REFLECTIVE PAVEMENT MARKERS DETAILS.
 3. ALL SIGN REMOVAL AND INSTALLATION WORK TO BE PERFORMED BY OTHERS. SIGNS ARE SHOWN FOR INFORMATION ONLY.

BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312)-223-0920 / F: (312)-223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = rjchang
 PLOT SCALE = 28.8000" = 1"
 PLOT DATE = 3/16/2015

DESIGNED - MAP
 DRAWN - RGJ
 CHECKED - RMG
 DATE - 03/16/2015

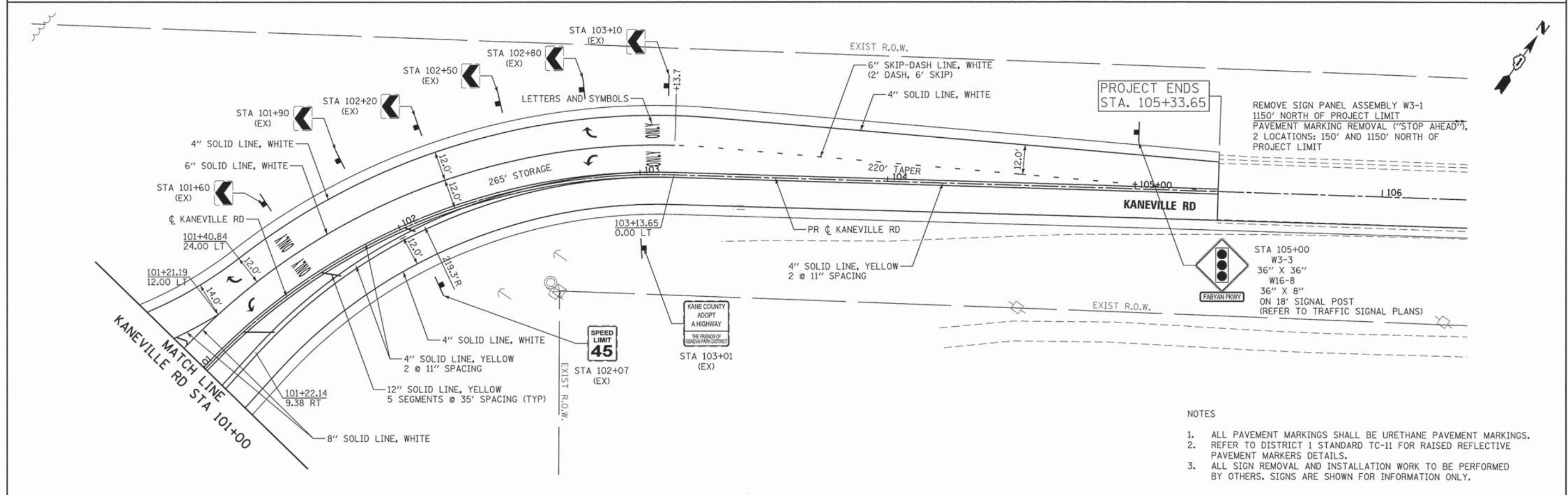
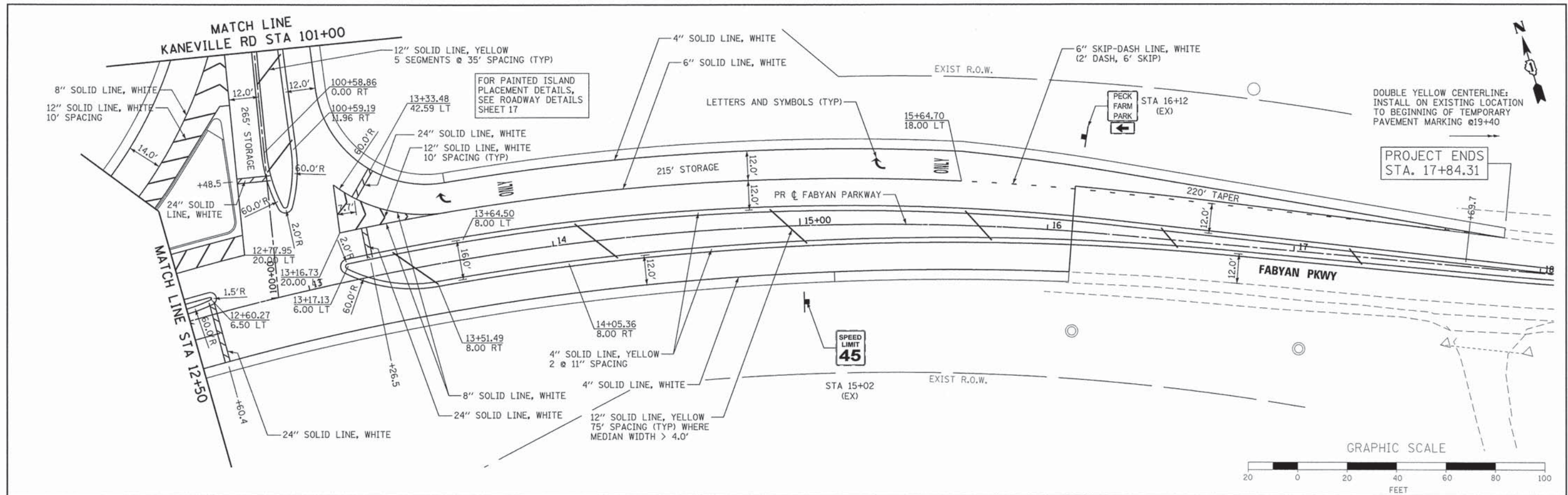
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
 FABYAN PARKWAY**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 3+00 TO STA. 12+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	27
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



- NOTES
1. ALL PAVEMENT MARKINGS SHALL BE URETHANE PAVEMENT MARKINGS.
 2. REFER TO DISTRICT 1 STANDARD TC-11 FOR RAISED REFLECTIVE PAVEMENT MARKERS DETAILS.
 3. ALL SIGN REMOVAL AND INSTALLATION WORK TO BE PERFORMED BY OTHERS. SIGNS ARE SHOWN FOR INFORMATION ONLY.

BURNS MEDONNELL
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 CHICAGO, IL 60606
 P: (312) 223-0920 / F: (312) 223-9664
 WEB: WWW.BURNSMCD.COM

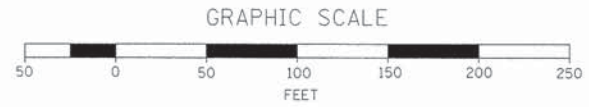
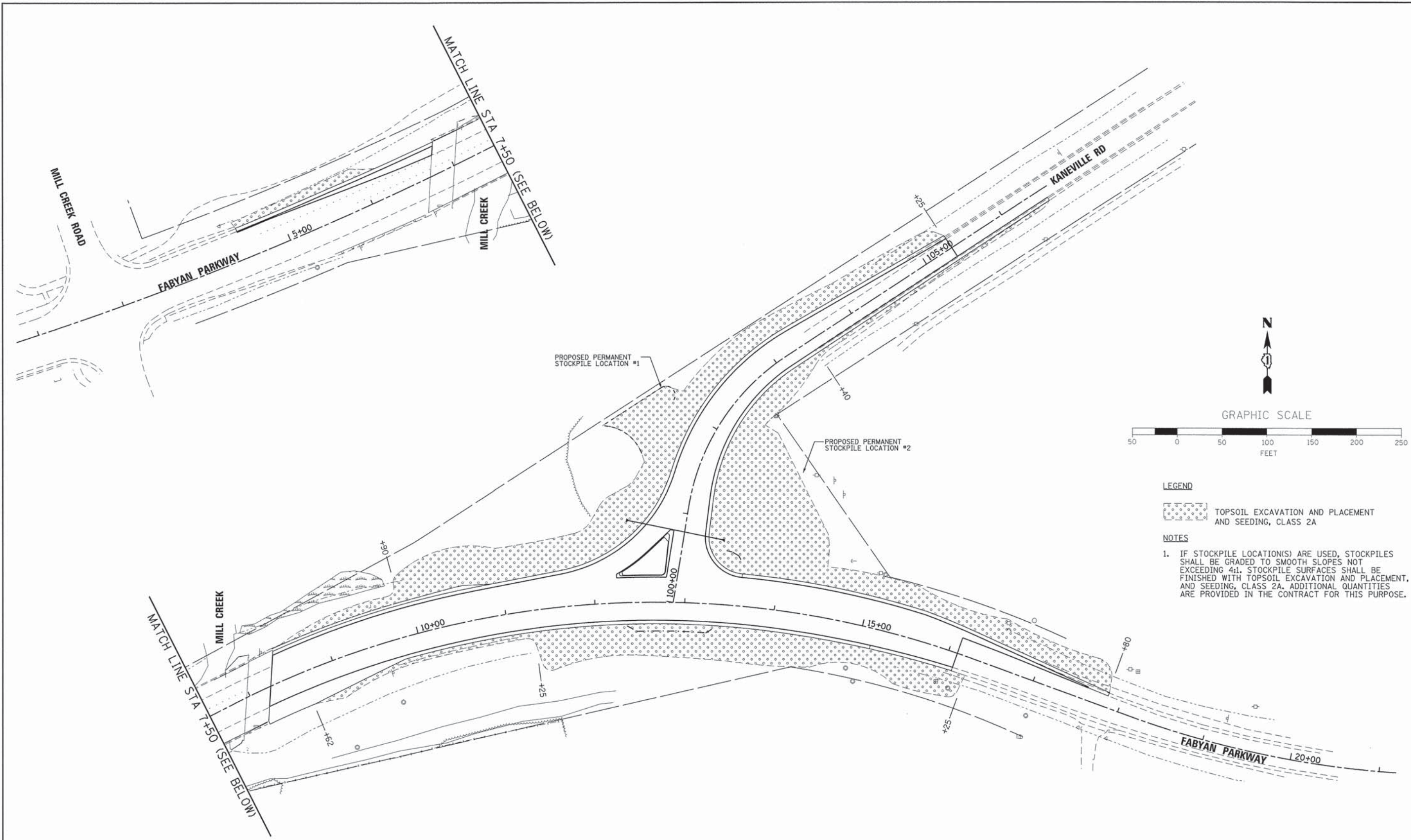
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PLOT DATE = 3/16/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND
 SIGNING PLAN**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
523	11-00420-00-CH	KANE	64 28
			CONTRACT NO. 61B45
ILLINOIS FED. AID PROJECT			



LEGEND

TOPSOIL EXCAVATION AND PLACEMENT AND SEEDING, CLASS 2A

NOTES

- IF STOCKPILE LOCATION(S) ARE USED, STOCKPILES SHALL BE GRADED TO SMOOTH SLOPES NOT EXCEEDING 4:1. STOCKPILE SURFACES SHALL BE FINISHED WITH TOPSOIL EXCAVATION AND PLACEMENT, AND SEEDING, CLASS 2A. ADDITIONAL QUANTITIES ARE PROVIDED IN THE CONTRACT FOR THIS PURPOSE.

BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312) 223-0920 / F: (312) 223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = mpapirruk
 PLOT SCALE = 50.0000' / 1" =
 PLOT DATE = 3/16/2015

DESIGNED - MAP
 DRAWN - RGJ
 CHECKED - RMG
 DATE - 03/16/2015

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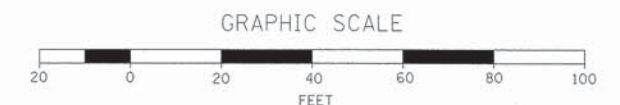
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED LANDSCAPING PLAN
 SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	29
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MMI2F			
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MMI2F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MMI2F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MMI2F SM24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				RAILROAD SYMBOLS			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				EXISTING		PROPOSED	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT				FLASHING SIGNAL			
DETECTOR LOOP, TYPE I				RADIO REPEATER				CROSSING GATE			
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSBUCK			
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

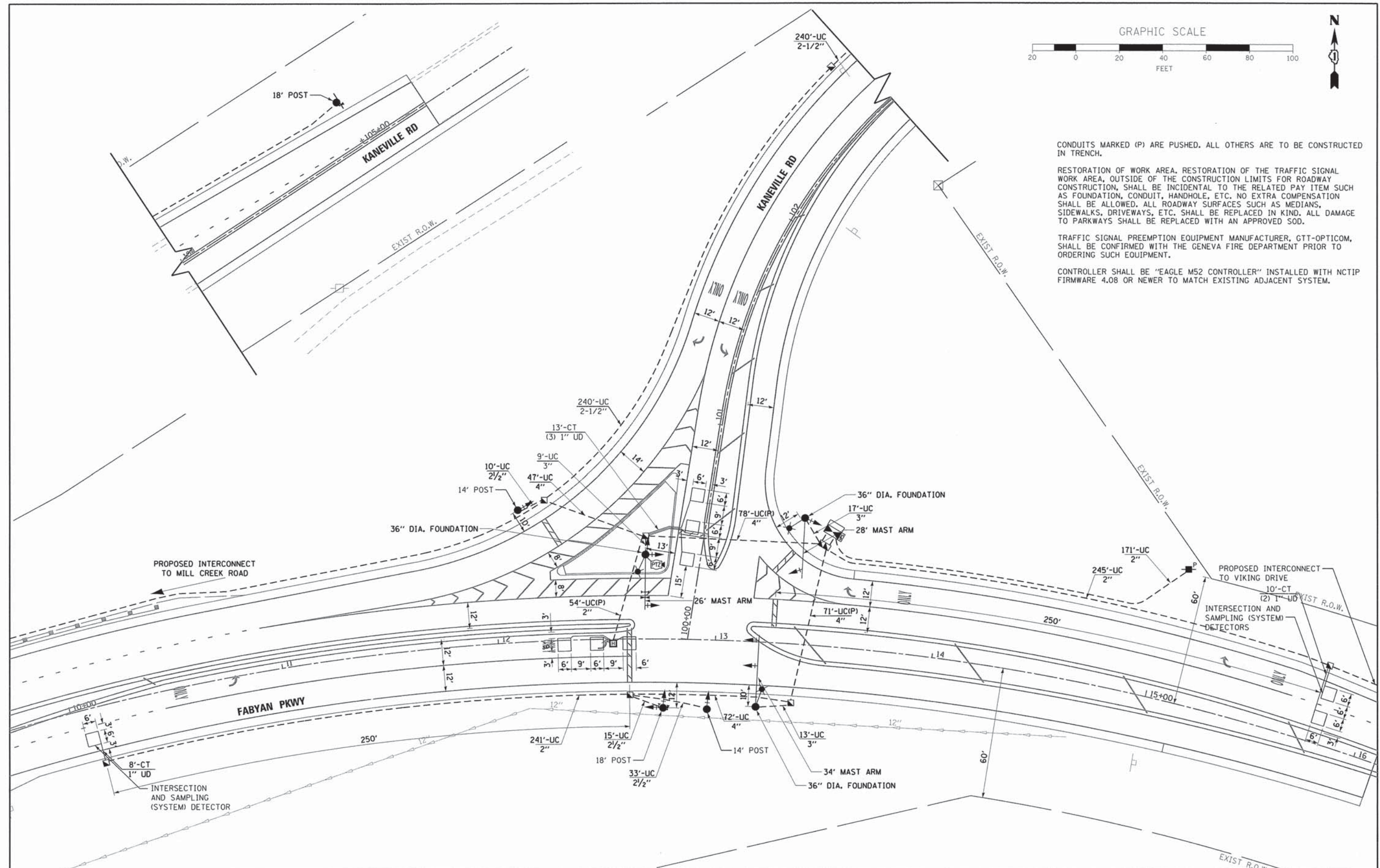


CONDUITS MARKED (P) ARE PUSHED. ALL OTHERS ARE TO BE CONSTRUCTED IN TRENCH.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA, OUTSIDE OF THE CONSTRUCTION LIMITS FOR ROADWAY CONSTRUCTION, SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS MEDIANS, SIDEWALKS, DRIVEWAYS, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO PARKWAYS SHALL BE REPLACED WITH AN APPROVED SOD.

TRAFFIC SIGNAL PREEMPTION EQUIPMENT MANUFACTURER, GTT-OPTICOM, SHALL BE CONFIRMED WITH THE GENEVA FIRE DEPARTMENT PRIOR TO ORDERING SUCH EQUIPMENT.

CONTROLLER SHALL BE "EAGLE M52 CONTROLLER" INSTALLED WITH NCTIP FIRMWARE 4.08 OR NEWER TO MATCH EXISTING ADJACENT SYSTEM.



BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312)-223-0920 / F: (312)-223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = mpapirnik	DESIGNED - MAP	REVISED -
PLOT SCALE = 28.0000' / 1"	DRAWN - RGJ	REVISED -
PLOT DATE = 3/18/2015	CHECKED - MAP	REVISED -
	DATE - 03/16/2015	REVISED -

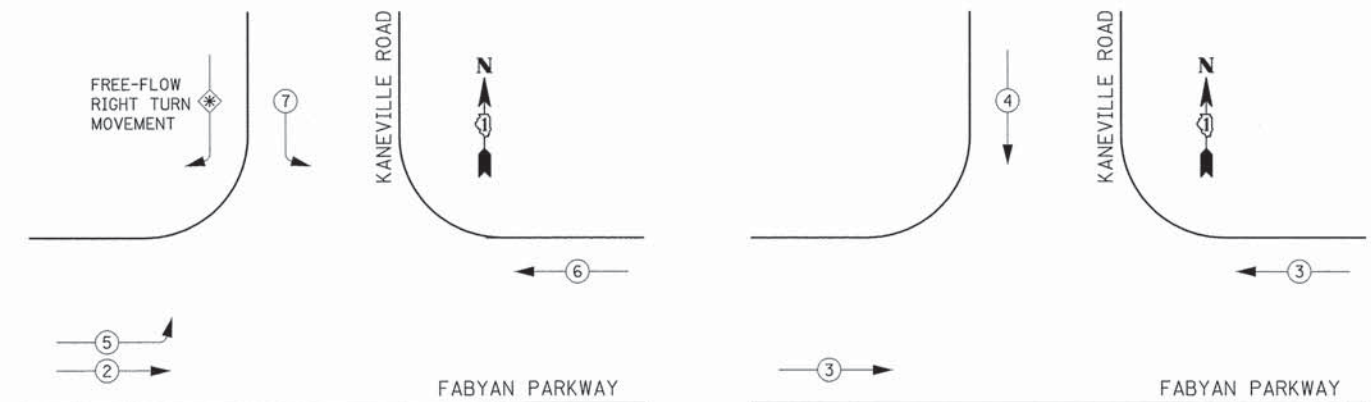
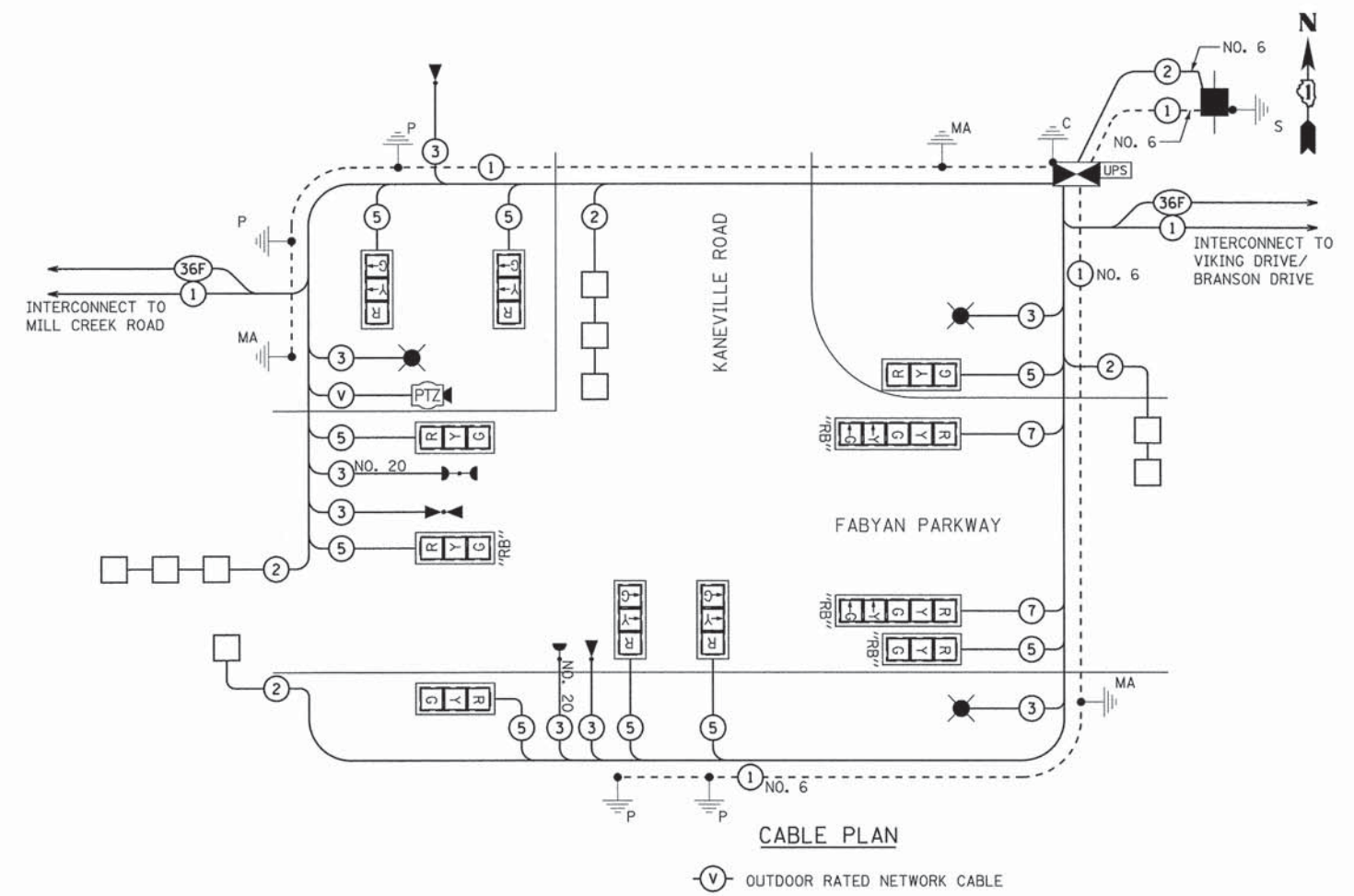
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL INSTALLATION PLAN FABYAN PARKWAY AT KANEVILLE ROAD			
SCALE: 1"=20'	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	31
CONTRACT NO. 61845				
ILLINOIS FED. AID PROJECT				

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

ITEM NAME	UNITS	QUANTITY
ELECTRIC UTILITY SERVICE CONNECTION	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	711
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	538
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	39
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	284
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	413
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1440
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	240
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2103
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	185
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C	FOOT	312
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6, 1C	FOOT	1107
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	34
SIGNAL HEAD, LED, 1-FACE, 3 SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3 SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	355
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1056
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	166
ETHERNET MANAGED SWITCH, TYPE 1	EACH	1



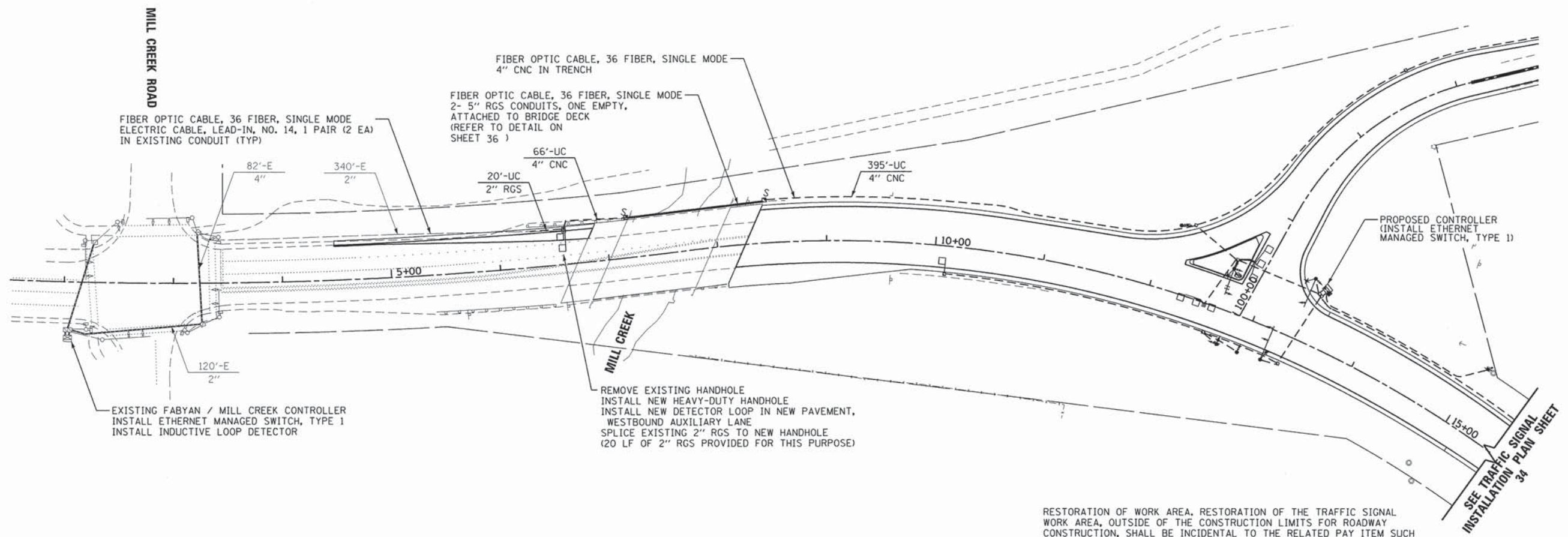
ELECTRICAL LOAD CHART

IDOT TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (LED)	% OPERATION	
SIGNAL (RED)	11	11	0.50	60.5
SIGNAL (YELLOW)	7	20	0.05	7.0
SIGNAL (GREEN)	7	12	0.45	37.8
ARROW	12	10	0.10	12.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
TOTAL				242.3

ENERGY COSTS TO
KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, ILLINOIS 60175
 ENERGY SUPPLY CONTACT : TOM PERKINS
 PHONE : (630) 723-2127
 COMPANY : COM. EDISON

TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↓

* WHEN EVP PHASE 3 IS ACTIVATED, A RED SIGNAL SHALL BE SHOWN ON THE HEADS FACING THE KANEVILLE ROAD FREE-FLOW MOVEMENT.



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA, OUTSIDE OF THE CONSTRUCTION LIMITS FOR ROADWAY CONSTRUCTION, SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS MEDIANS, SIDEWALKS, DRIVEWAYS, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO PARKWAYS SHALL BE REPLACED WITH AN APPROVED SOD.

INTERCONNECT SUMMARY OF QUANTITIES

ITEM	ITEM	QUANTITIES		
		MILL CREEK TO KANEVILLE	KANEVILLE TO VIKING/BRANSON	TOTAL
TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM		1	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	20		20
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT		80	80
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	464	4757	5221
CONDUIT ATTACHED TO STRUCTURE, 5" DIA., GALVANIZED STEEL	FOOT	200		200
HANDHOLE	EACH	2	11	13
HEAVY-DUTY HANDHOLE	EACH	1		1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	2
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1084		1084
DRILL EXISTING HANDHOLE	EACH		1	1
INDUCTIVE LOOP DETECTOR	EACH	1		1
MODIFY EXISTING CONTROLLER	EACH	1	1	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1	1	2
FIBER OPTIC CABLE 36 FIBERS, SINGLE MODE	FOOT	1218.5	5390	6609
ROD AND CLEAN EXISTING CONDUIT	FOOT	542	163	705
ETHERNET MANAGED SWITCH, TYPE 1	EACH	1		1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH		1	1

GENERAL NOTE:
ALL TRAFFIC SIGNAL CABINET DATA INCLUDING THAT FROM THE PROPOSED PTZ CAMERA, TRAFFIC SIGNAL CONTROLLER, MALFUNCTION MANAGEMENT UNIT, AND UNINTERRUPTIBLE POWER SUPPLY UNITS SHALL BE CONVEYED THROUGH THE KANE COUNTY ATMS NETWORK VIA ETHERNET PROTOCOL FOR DIRECT COMMUNICATIONS TO THE KDOT OFFICE. SWITCH CONFIGURATION SHALL MATCH THE KDOT TRAFFIC VLAN CONFIGURATION OF ADJACENT INTERSECTIONS.

BURNS MEDONNELL
200 W. ADAMS STREET / SUITE 1600
CHICAGO, IL 60606
P: (312) 223-0920 / F: (312) 223-9664
WEB: WWW.BURNSMCD.COM

USER NAME = mpopiruk
DESIGNED - MAP
DRAWN - RGJ
CHECKED - RMG
PLOT SCALE = 50.0000' / 1" = 50'
PLOT DATE = 3/19/2015

DESIGNED - MAP
DRAWN - RGJ
CHECKED - RMG
DATE - 03/16/2015

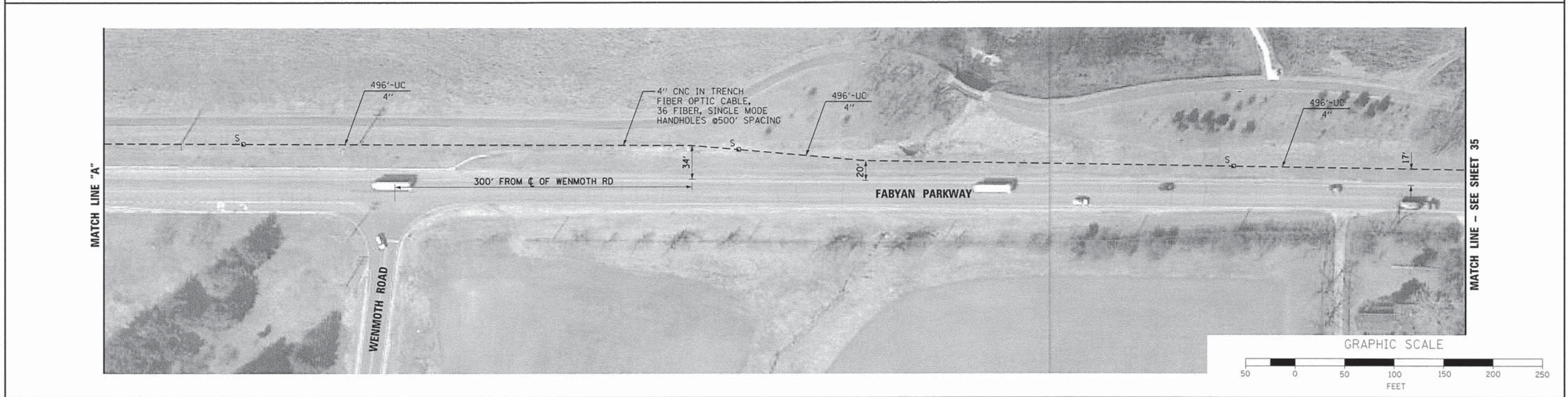
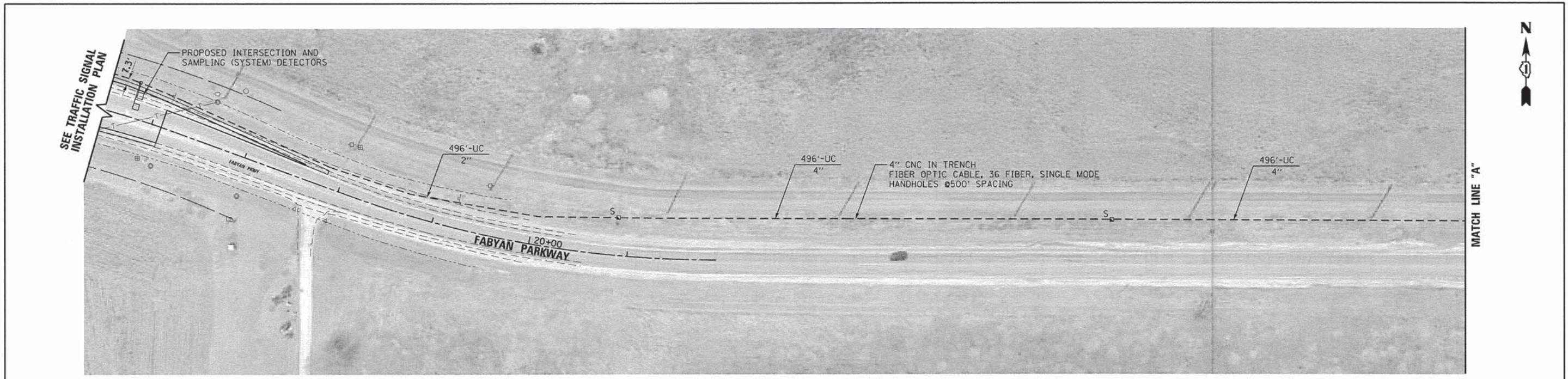
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	33
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA, OUTSIDE OF THE CONSTRUCTION LIMITS FOR ROADWAY CONSTRUCTION, SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS MEDIANS, SIDEWALKS, DRIVEWAYS, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO PARKWAYS SHALL BE REPLACED WITH AN APPROVED SOD.

NOTE: CONDUIT MUST BE PLACED IN COUNTY RIGHT OF WAY. PLACEMENT OF CONDUIT IN VICINITY OF WENMOTH ROAD IS BASED ON UNDERSTANDING THAT UTILITY POLES ARE INSTALLED ON OR WITHIN ROW LINE. CONFIRM LIMITS OF RIGHT OF WAY PRIOR TO INSTALLATION.

BURNS & MCDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312)-223-0920 / F: (312)-223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = mpeprnik
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 3/19/2015

DESIGNED - MAP
 DRAWN - RGJ
 CHECKED - RMG
 DATE - 03/16/2015

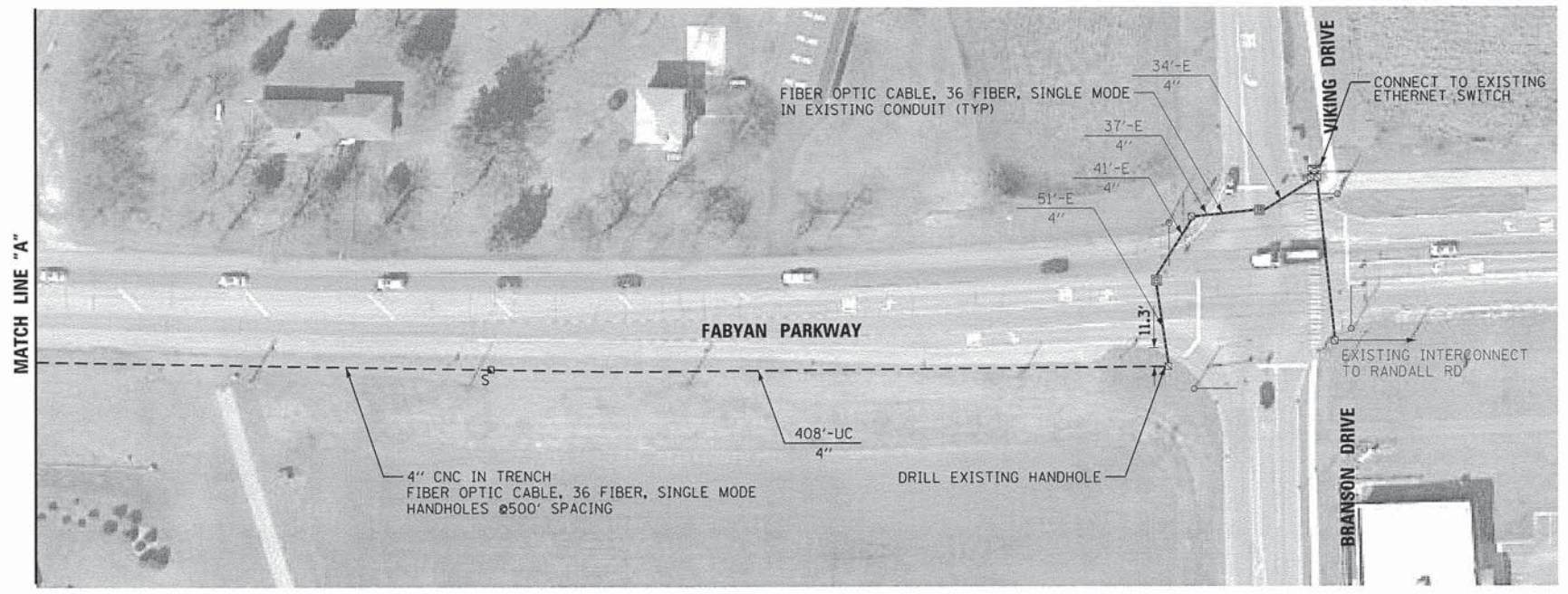
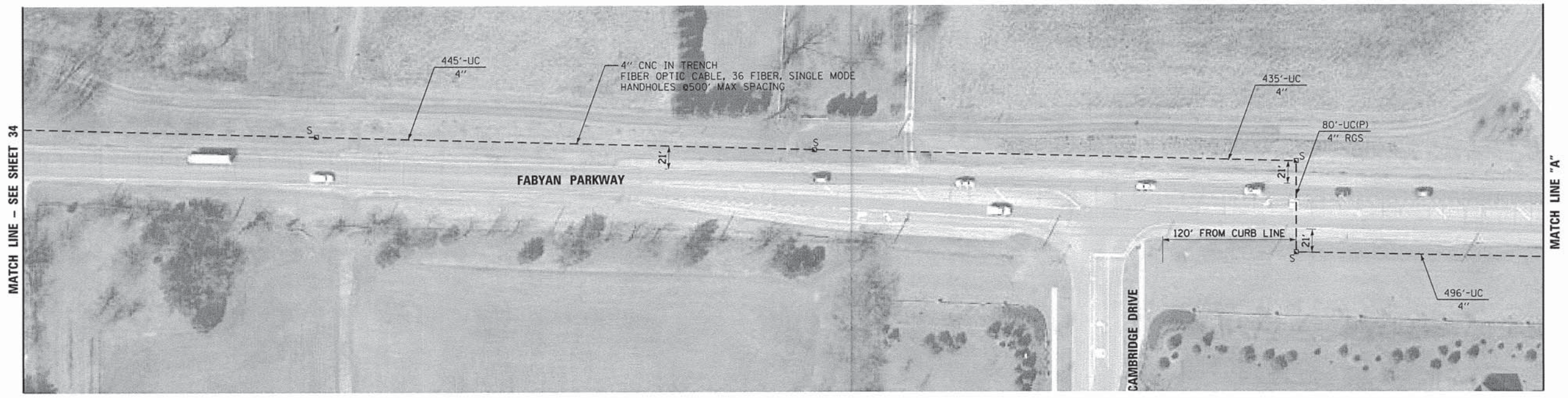
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

INTERCONNECT PLAN

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	34
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA, OUTSIDE OF THE CONSTRUCTION LIMITS FOR ROADWAY CONSTRUCTION, SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS MEDIANS, SIDEWALKS, DRIVEWAYS, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO PARKWAYS SHALL BE REPLACED WITH AN APPROVED SOD.

BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312)-223-0920 / F: (312)-223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = mpapirnak
 PLOT SCALE = 58.0000 ' / in.
 PLOT DATE = 3/19/2015

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 CHECKED - RMG
 DATE - 03/16/2015

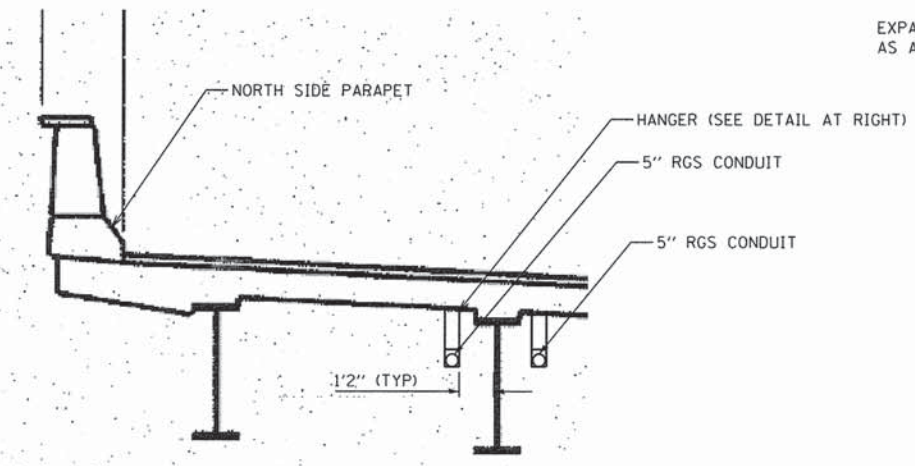
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

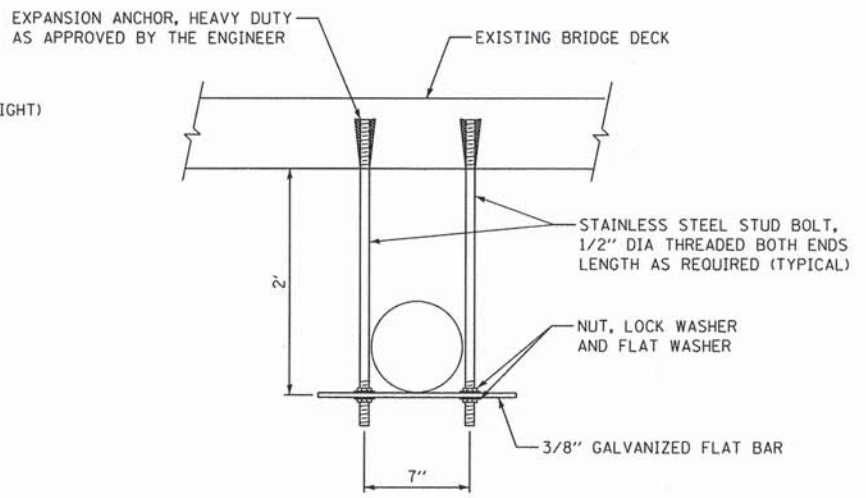
INTERCONNECT PLAN

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

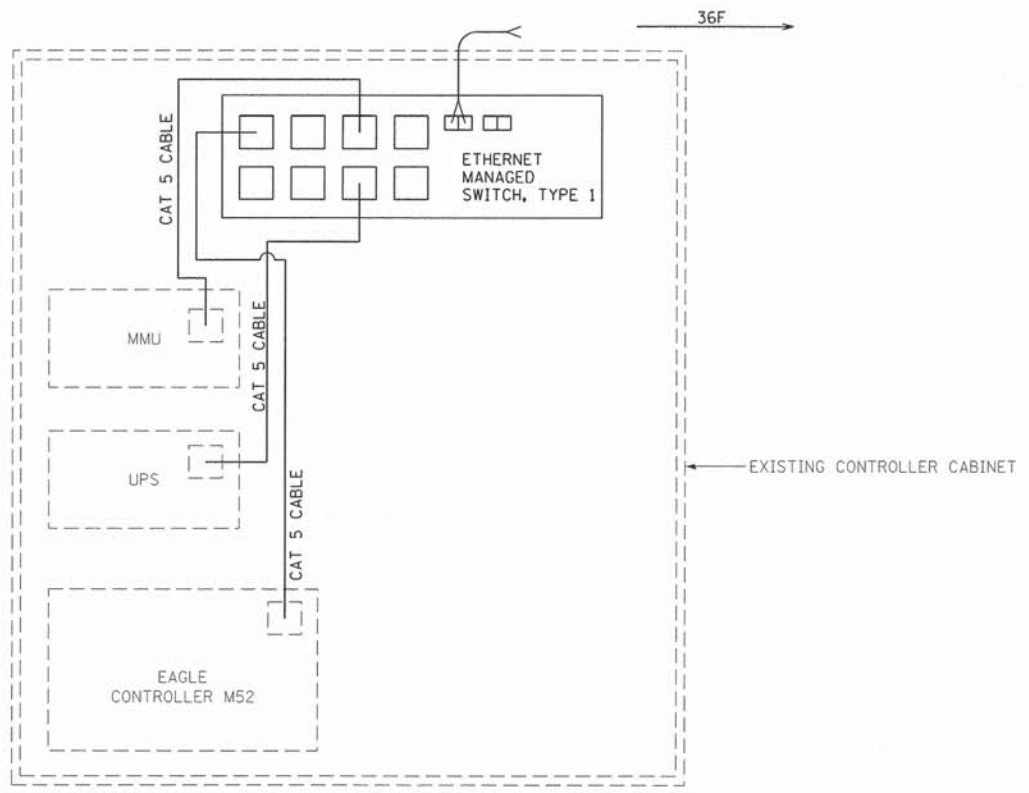
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	35
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



TYPICAL INTERCONNECT CONDUIT ATTACHED TO BRIDGE DECK DETAIL
(LOOKING IN THE DIRECTION OF TRAFFIC)



HANGER DETAIL



MILL CREEK ROAD CONTROLLER MODIFICATIONS

BURNS MEDONNELL
200 W. ADAMS STREET / SUITE 1600
CHICAGO, IL 60606
P: (312) 223-0920 / F: (312) 223-9664
WEB: WWW.BURNSMCD.COM

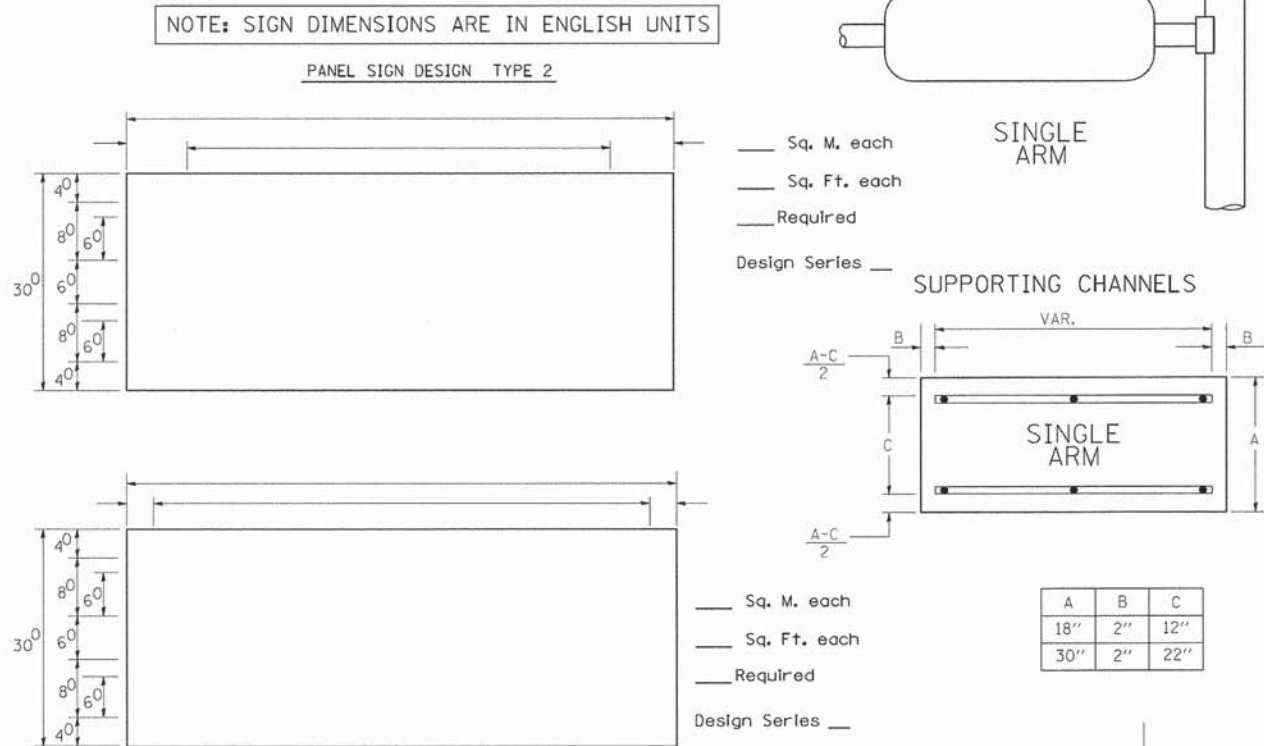
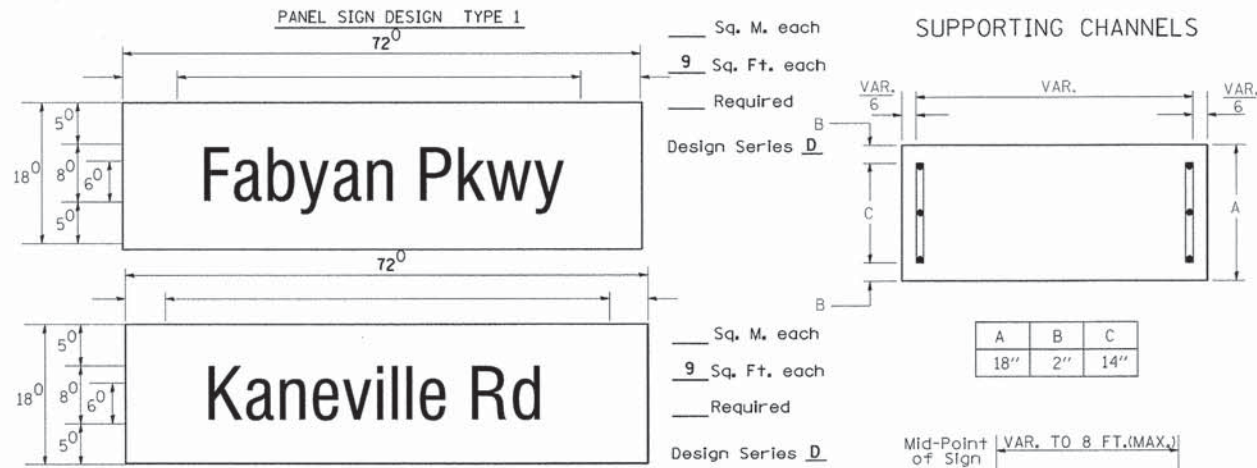
USER NAME = mpeprnk	DESIGNED - MAP	REVISED -
PLOT SCALE = 1/8" = 1'-0"	DRAWN - MAP	REVISED -
PLOT DATE = 3/19/2015	CHECKED - AR	REVISED -
	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERCONNECT DETAILS

SCALE: 1"=10' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	36
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



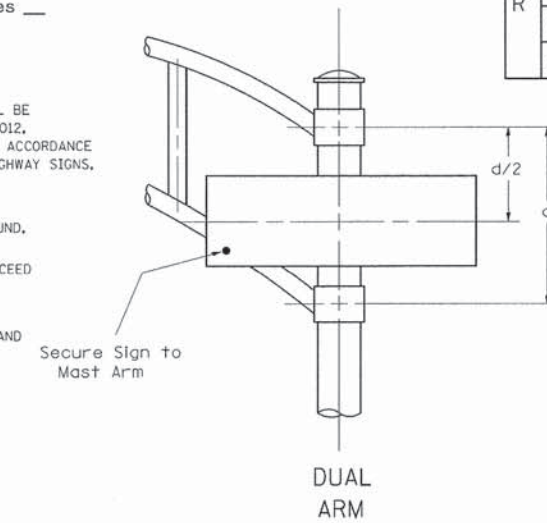
GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

* J.O. HERBERT CO. MIDLOTHIAN, VA. * WESTERN REMAC INC. WOODRIDGE, IL.

PARTS LISTING:
 SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
 SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
 SELF TAPPING WITH NEOPRENE WASHER
 BRACKETS PART #HPN034 (UNIVERSAL)
 CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

Upper Case To Lower Case Spacing Chart 8-6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER																	
	a c d e		g o q		b h i k l		m n p r u		f w		j		s t		v y		x z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	12	12	14	12	14
B	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17	14	17
C E G	14	15	20	21	12	14	06	10	12	14	12	14	14	15	14	15	14	15
D O O R	14	15	20	21	14	15	06	10	12	14	12	14	14	15	14	15	14	15
F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	11	12	11	12
H I M N	20	21	22	24	20	21	14	15	16	17	16	17	16	17	20	21	20	21
J U	20	21	20	21	16	17	14	15	16	17	16	17	16	17	16	17	20	21
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14	12	14
P	12	14	14	15	12	14	05	06	11	12	11	12	11	12	12	14	12	14
S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14	12	14
T	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12	14	12	14
V	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14	12	14
Y	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12	11	12
Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	16	17	20	21

Lower Case To Lower Case Spacing Chart 6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER																	
	a c d e		g o q		b h i k l		m n p r u		f w		j		s t		v y		x z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
a d h g i j	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17	16	17
l m n q u	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14	12	14
b f k o p s	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14	12	14
c e	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14	12	14
r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10	06	10
t z	12	14	16	17	12	14	06	10	11	12	11	12	11	12	12	14	12	14
v y	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12	11	12
w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	11	12	12	14
x	12	14	16	17	11	12	05	06	11	12	11	12	11	12	11	12	12	14

Number To Number Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
1	20	21	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
2 3 4	14	15	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	15
5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
6	16	17	14	15	14	15	12	15	12	14	14	15	14	15	11	12	14	15	14	15
7	12	14	12	14	14	15	12	15	05	06	12	14	14	15	11	12	14	15	12	14
8	16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

EXAMPLE, 2³ DENOTES 3/8

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES		SERIES		SERIES			SERIES	
	C	D	C	D	C	D	C	D		C	D
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²				
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²				
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹				
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²				
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²				
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ³	2 ⁶				
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²				
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²				
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹	1 ¹				
J	3 ⁰	3 ⁶	4 ⁰	5 ⁰	j	2 ⁰	2 ²				
K	3 ²	4 ¹	4 ³	5 ⁴	k	3 ⁵	4 ²				
L	3 ⁰	3 ⁵	4 ⁰	4 ⁷	l	1 ¹	1 ¹				
M	3 ⁷	4 ⁵	5 ¹	6 ¹	m	6 ⁰	7 ⁰				
N	3 ²	4 ⁰	4 ³	5 ³	n	3 ⁵	4 ²				
O	3 ⁴	4 ²	4 ⁵	5 ⁵	o	3 ⁶	4 ³				
P	3 ²	4 ⁰	4 ³	5 ³	p	3 ⁵	4 ²				
Q	3 ⁴	4 ²	4 ⁵	5 ⁵	q	3 ⁵	4 ²				
R	3 ²	4 ⁰	4 ³	5 ³	r	2 ⁶	3 ²				
S	3 ²	4 ⁰	4 ³	5 ³	s	3 ⁶	4 ²				
T	3 ⁰	3 ⁵	4 ⁰	4 ⁷	t	2 ⁷	3 ²				
U	3 ²	4 ⁰	4 ³	5 ³	u	3 ⁵	4 ²				
V	3 ⁵	4 ⁴	4 ⁷	6 ⁰	v	4 ²	4 ⁷				
W	4 ⁴	5 ²	6 ⁰	7 ⁰	w	5 ⁵	6 ⁴				
X	3 ⁴	4 ⁰	4 ⁵	5 ³	x	4 ⁴	5 ¹				
Y	3 ⁶	5 ⁰	5 ⁰	6 ⁶	y	4 ⁶	5 ³				
Z	3 ²	4 ⁰	4 ³	5 ³	z	3 ⁶	4 ³				

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 ²	1 ⁴	1 ⁵	2 ⁰
2	3 ²	4 ⁰	4 ³	5 ³
3	3 ²	4 ⁰	4 ³	5 ³
4	3 ⁵	4 ³	4 ⁷	5 ⁷
5	3 ²	4 ⁰	4 ³	5 ³
6	3 ²	4 ⁰	4 ³	5 ³
7	3 ²	4 ⁰	4 ³	5 ³
8	3 ²	4 ⁰	4 ³	5 ³
9	3 ²	4 ⁰	4 ³	5 ³
0	3 ⁴	4 ²	4 ⁵	5 ⁵

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAG/BCK	REVISED - DAG 10/28/09
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PLOT DATE = 11/4/2009		DATE - 03-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

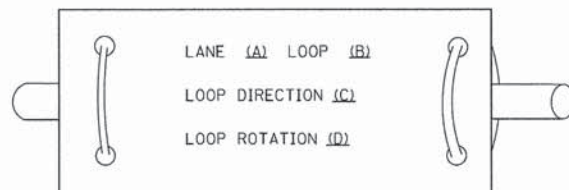
DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 37
TS-02		CONTRACT NO. 61B45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

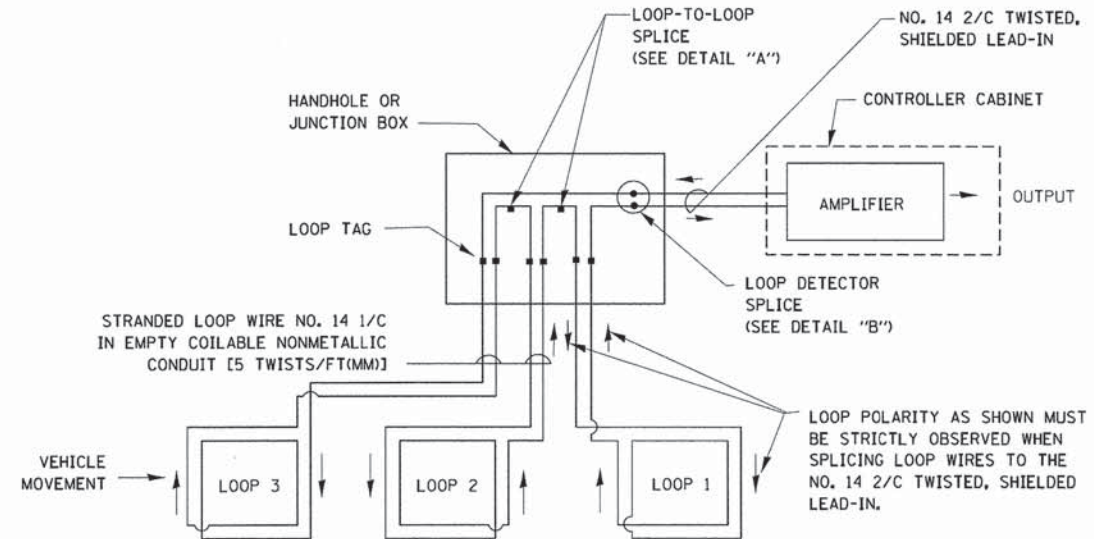
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

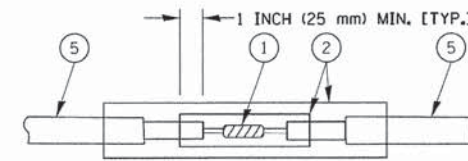


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

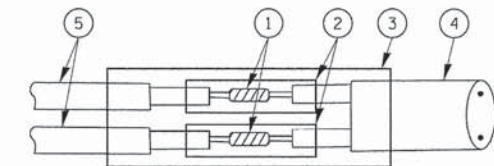


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE. THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

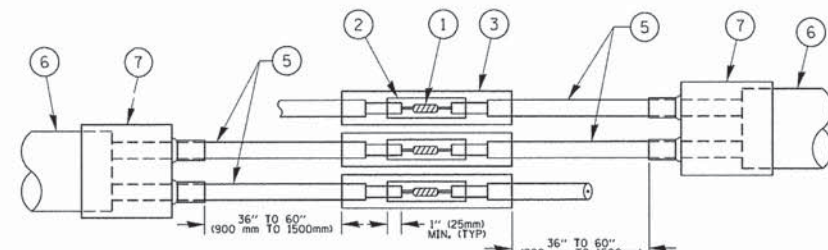


DETAIL "A"
LOOP-TO-LOOP SPLICE

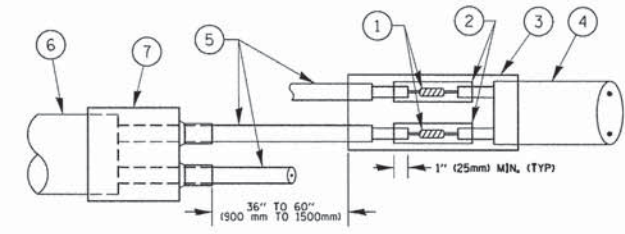


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

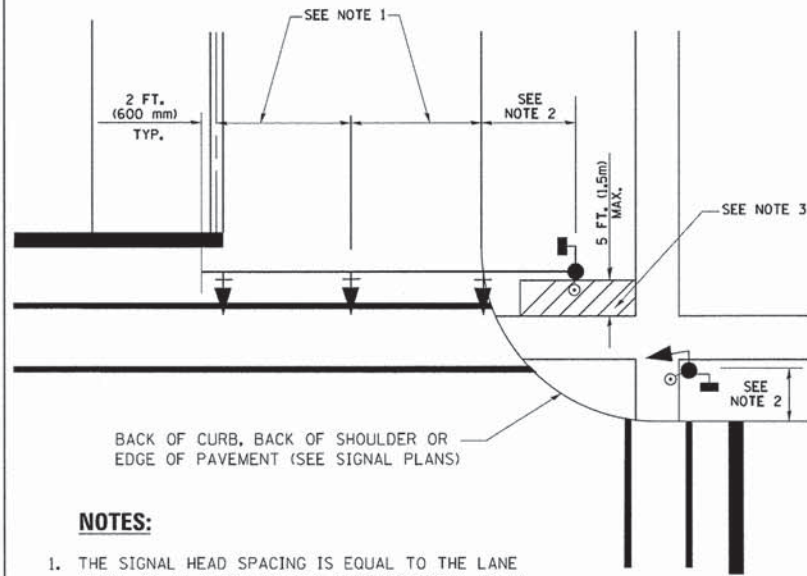
PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME: BURNS MCDONNELL	USER NAME: f00temj	DESIGNED: DAD	REVISED: DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 38
PLOT SCALE: 50:0000 1/4" = 1'	CHECKED: DAD	REVISIONS:	DATE: 10-28-09		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 61B45		
PLOT DATE: 1/13/2014	DATE: 10-28-09	REVISIONS:			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

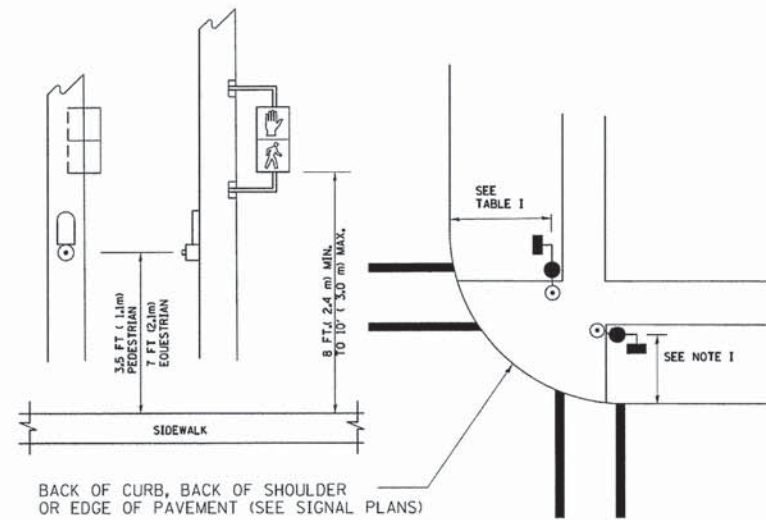
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

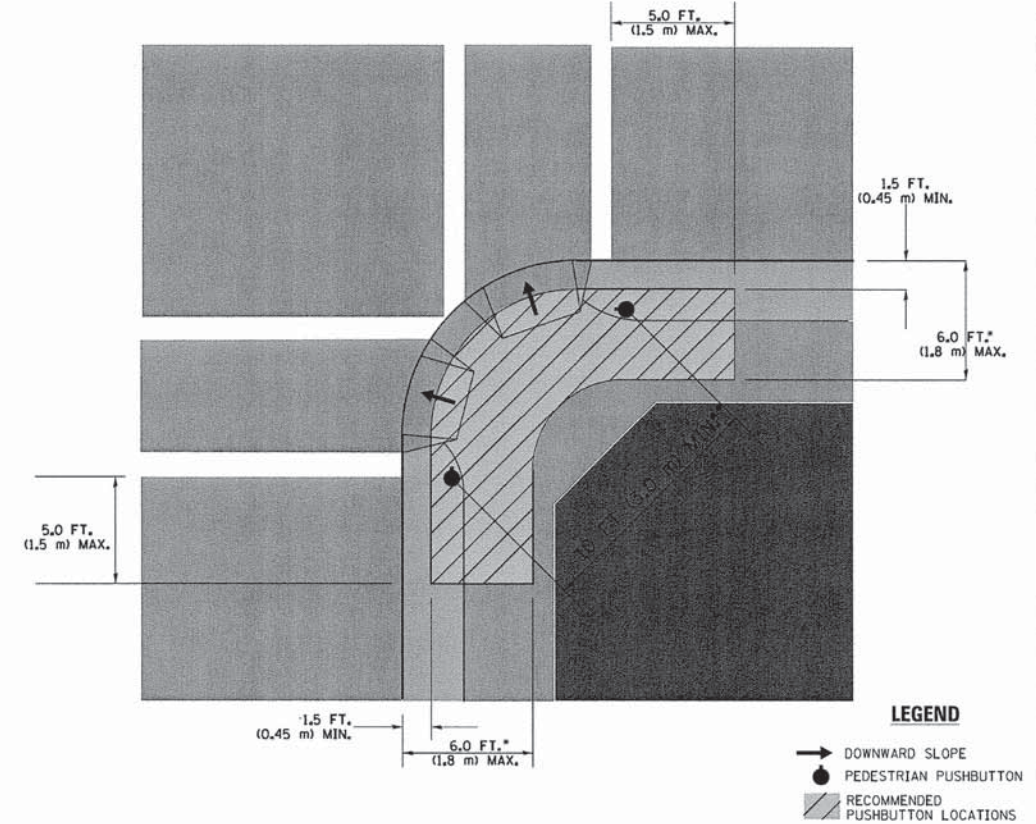
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

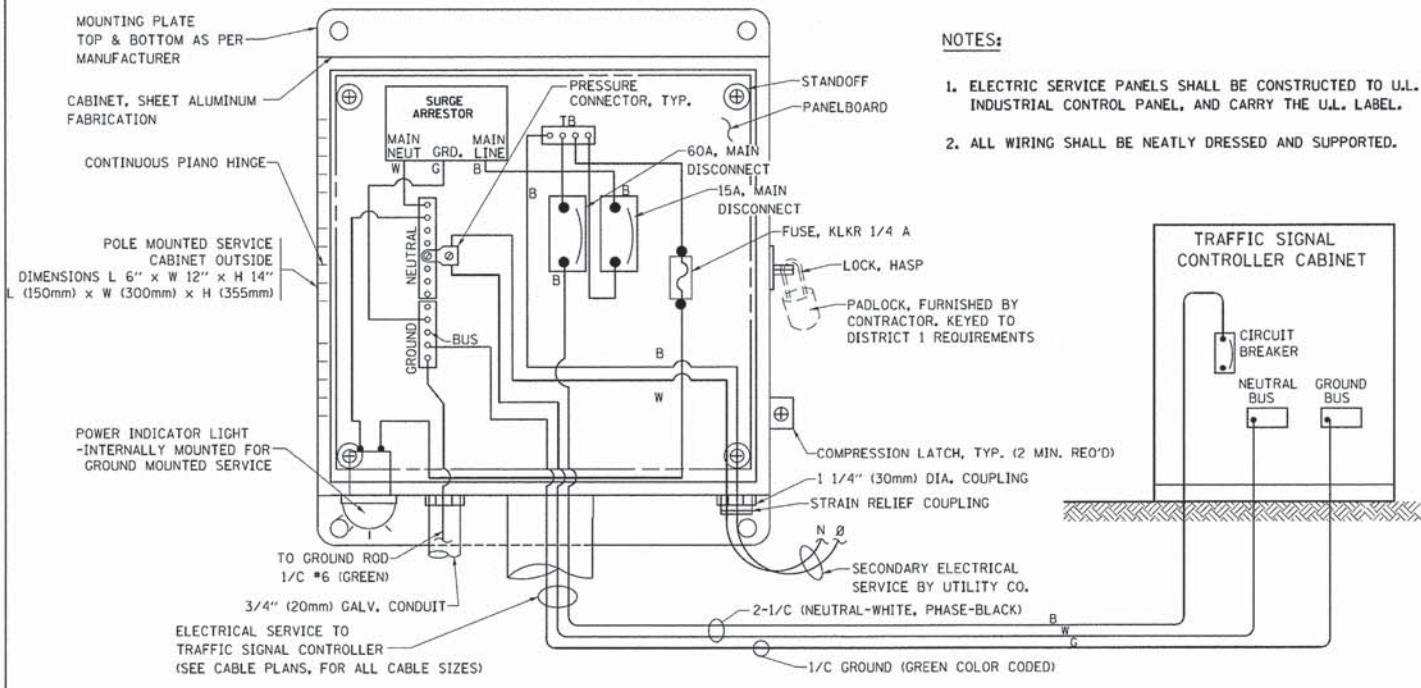
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

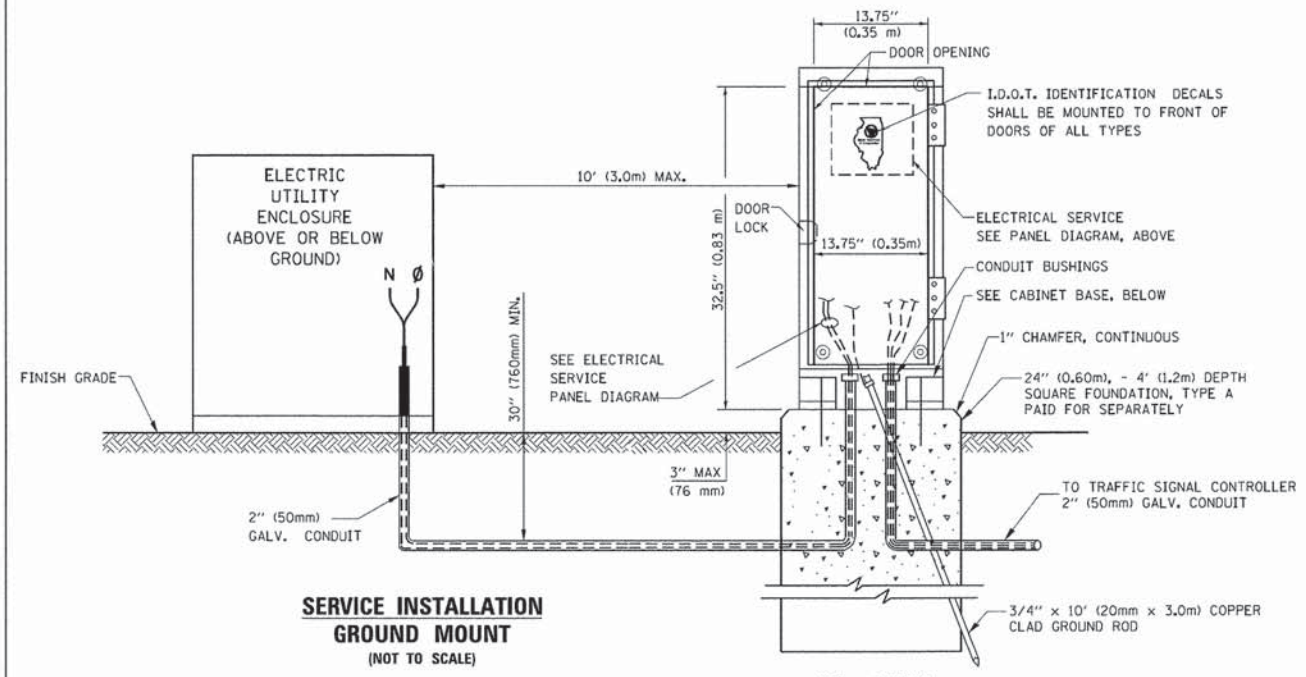
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS, THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

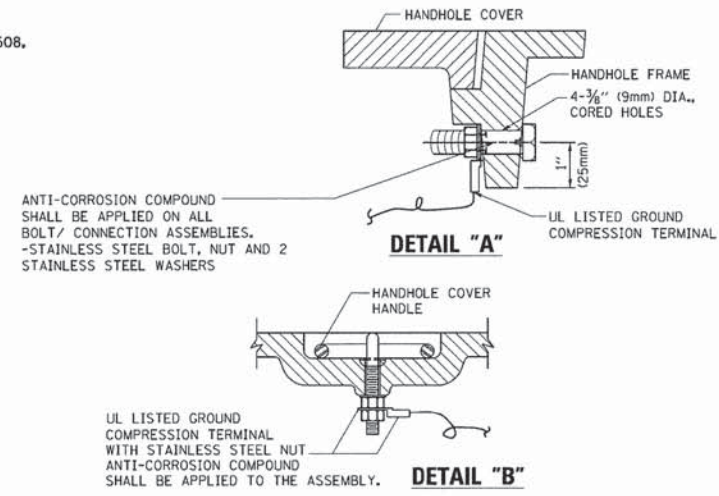
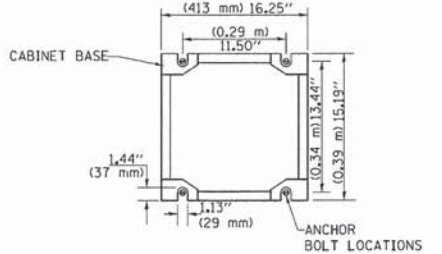


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



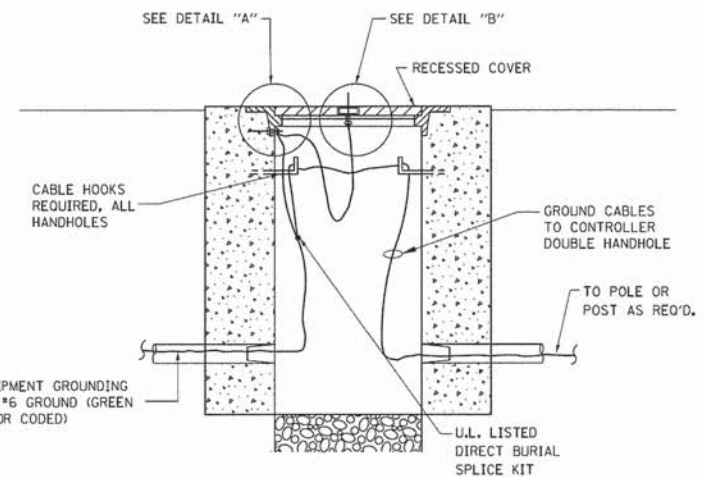
SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

CABINET - BASE BOLT PATTERN (NOT TO SCALE)

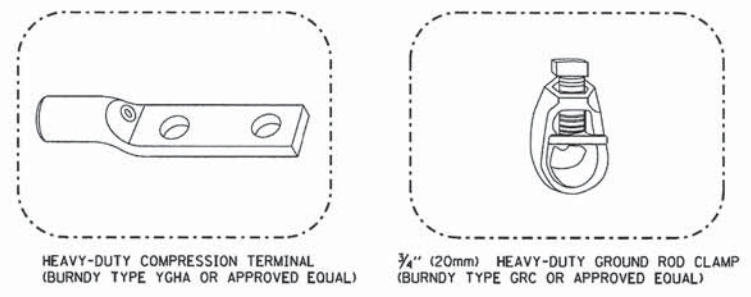


NOTES:
GROUNDING SYSTEM

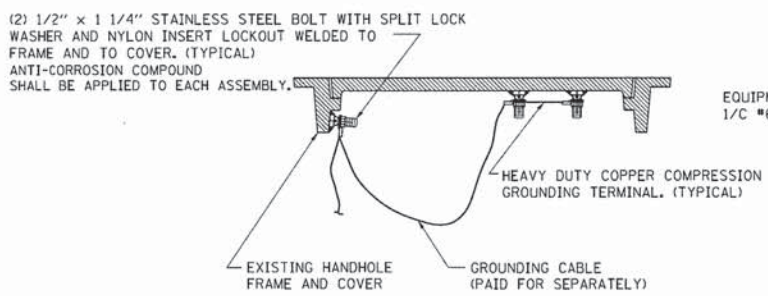
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



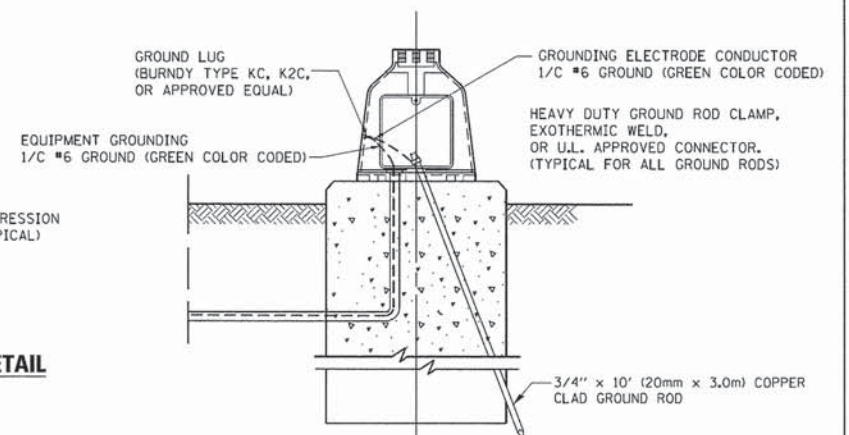
HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

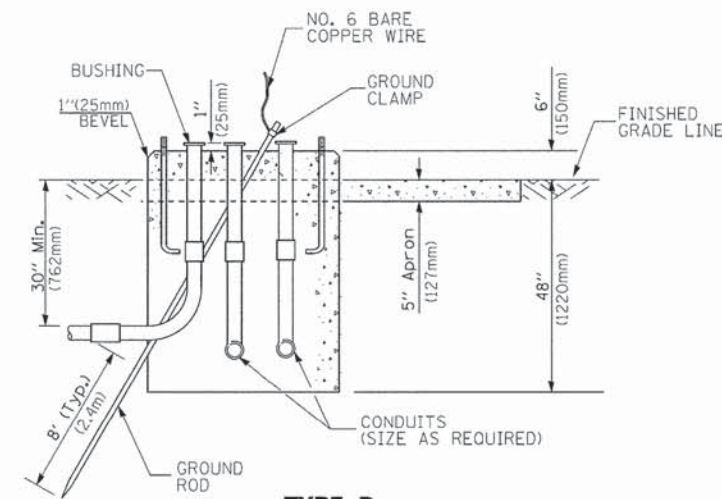
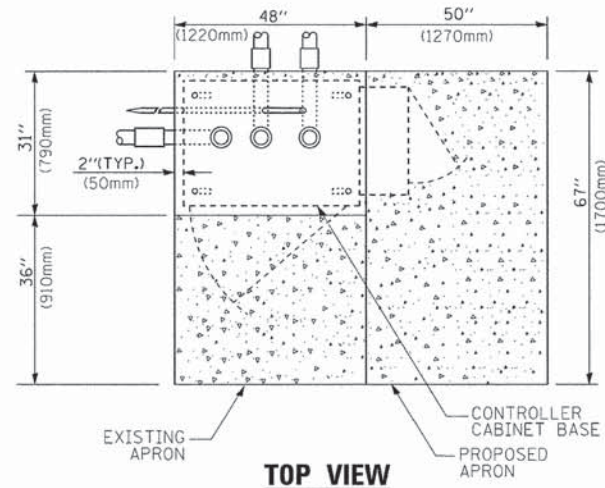


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)

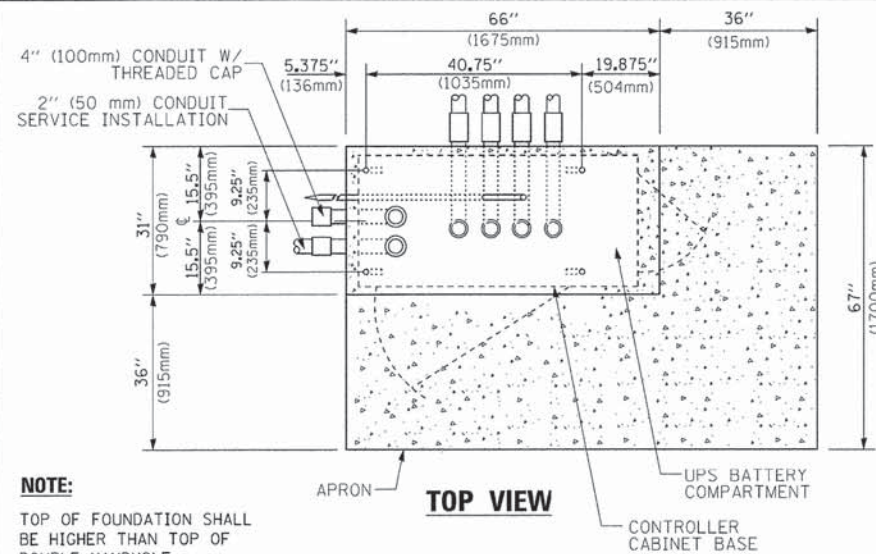


MAST ARM POLE /POST-GROUNDING DETAIL (NOT TO SCALE)

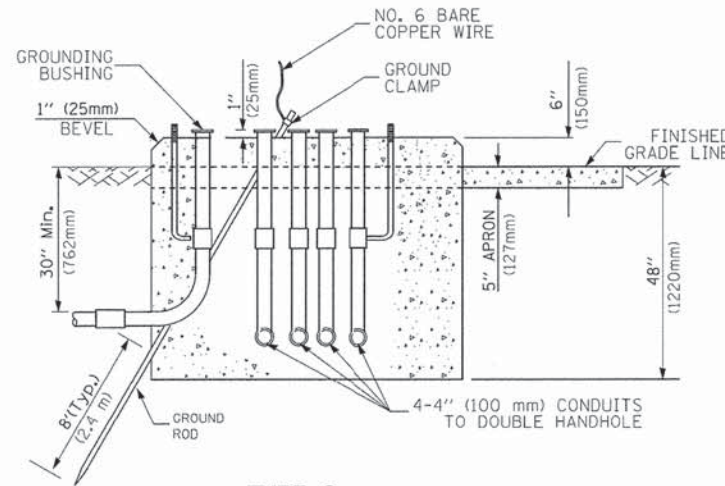
FILE NAME: BURNS MCDONNELL	USER NAME: faatemj	DESIGNED: DAD	REVISED: DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 40	
PLOT SCALE = 58.0000' / 1" =		CHECKED: DAD	REVISED:		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 61B45			
PLOT DATE = 1/13/2014		DATE: 10-28-09	REVISED:		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



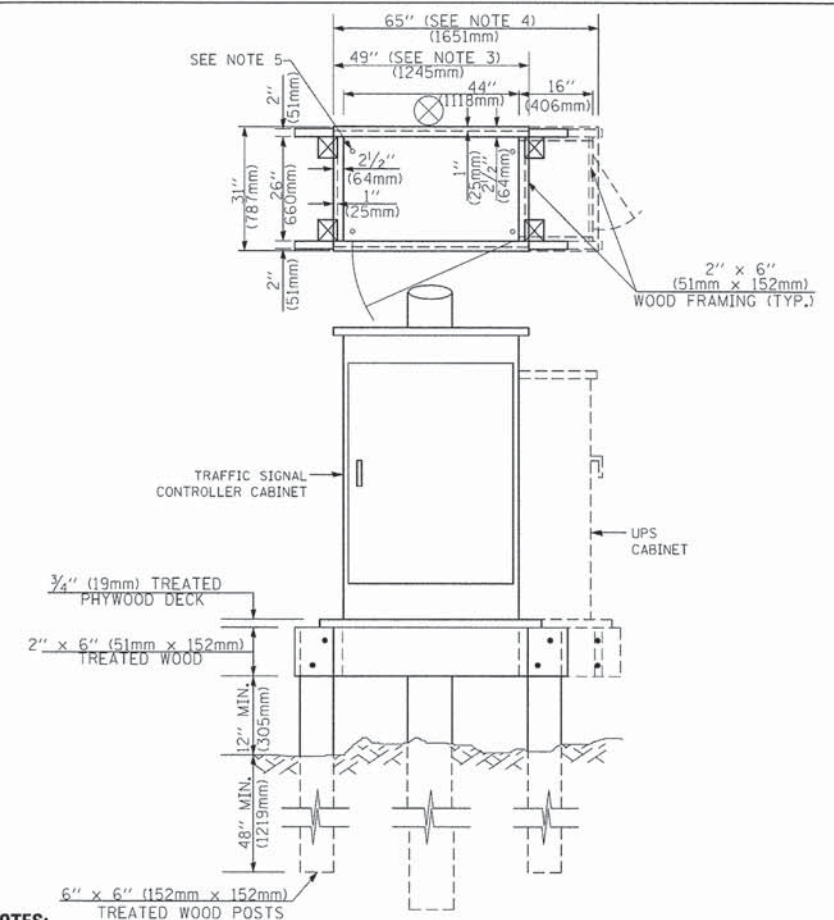
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

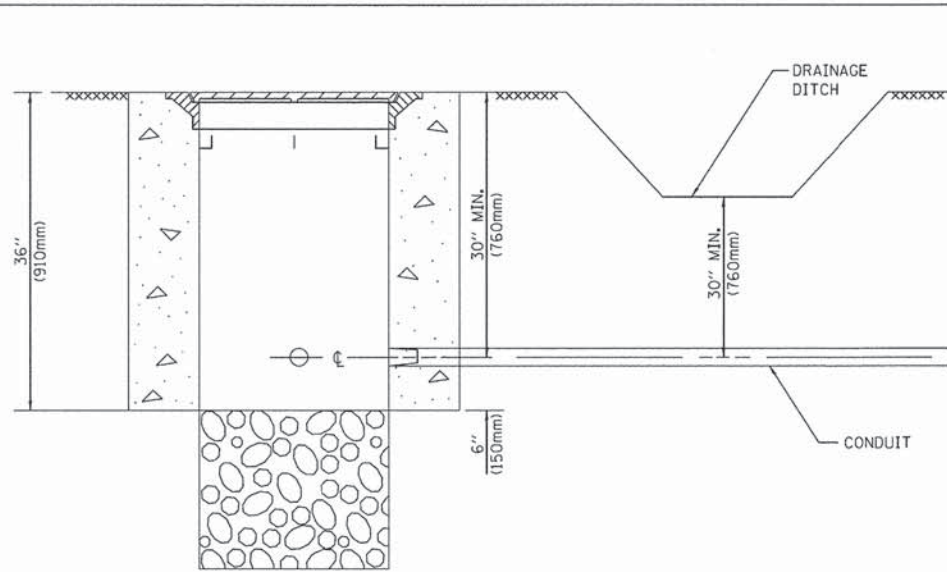
DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m) 11'-0" (3.4 m)	30" (750mm) 36" (900mm)	24" (600mm) 30" (750mm)	8 12	6(19) 7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

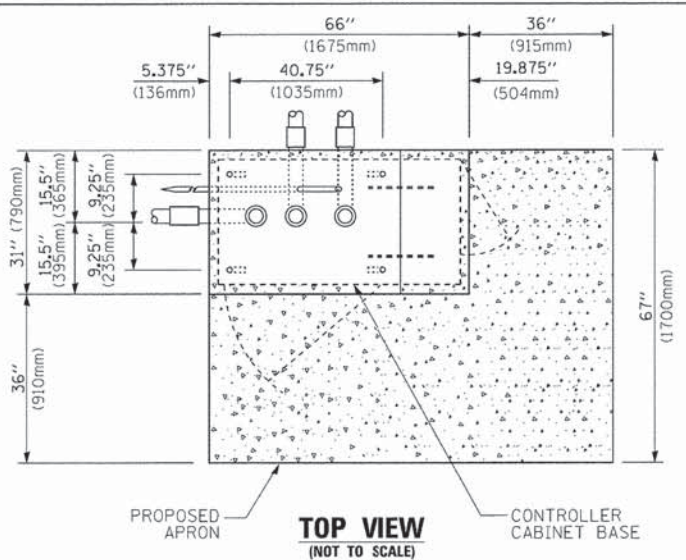
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



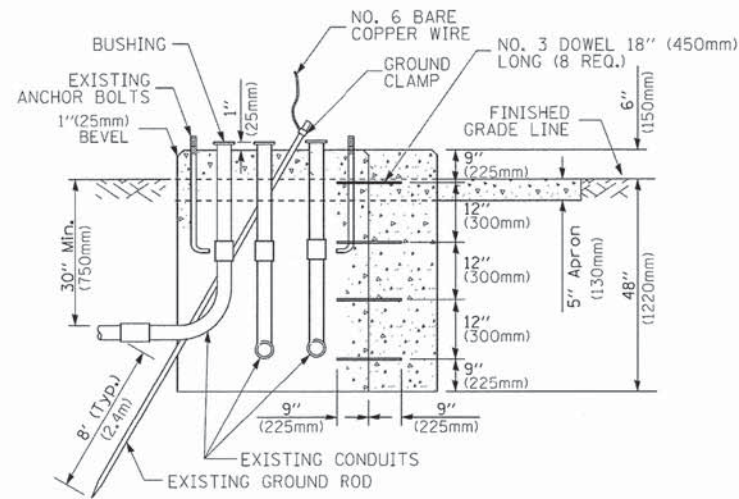
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)

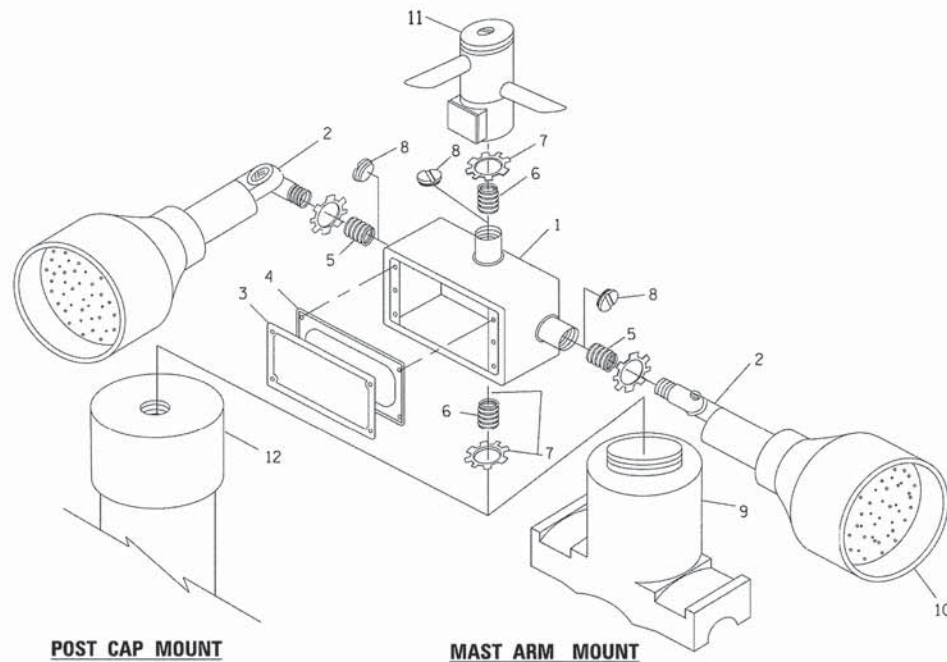


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

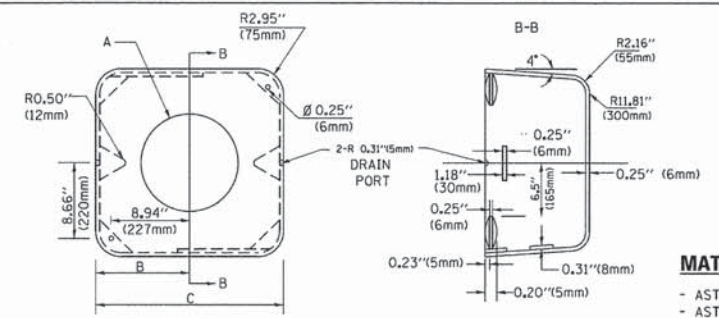
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

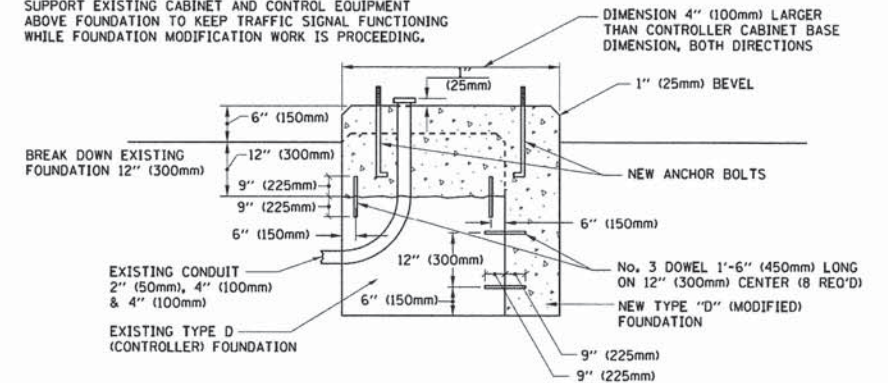
SHROUD

NOTES:

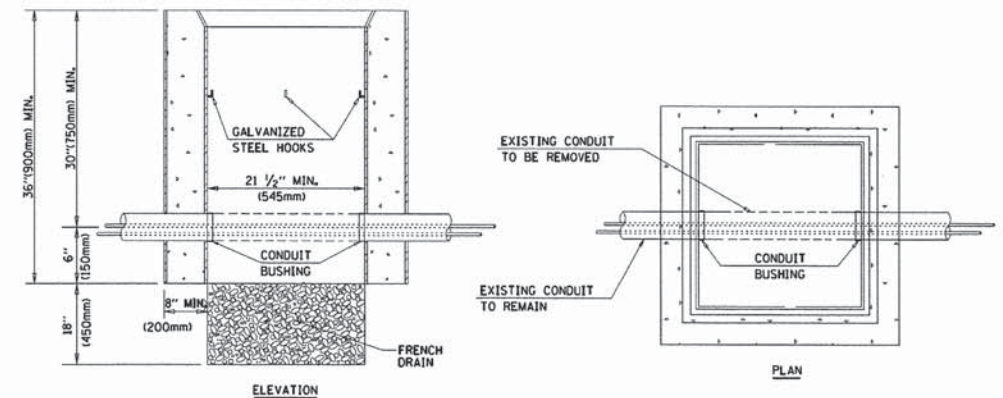
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

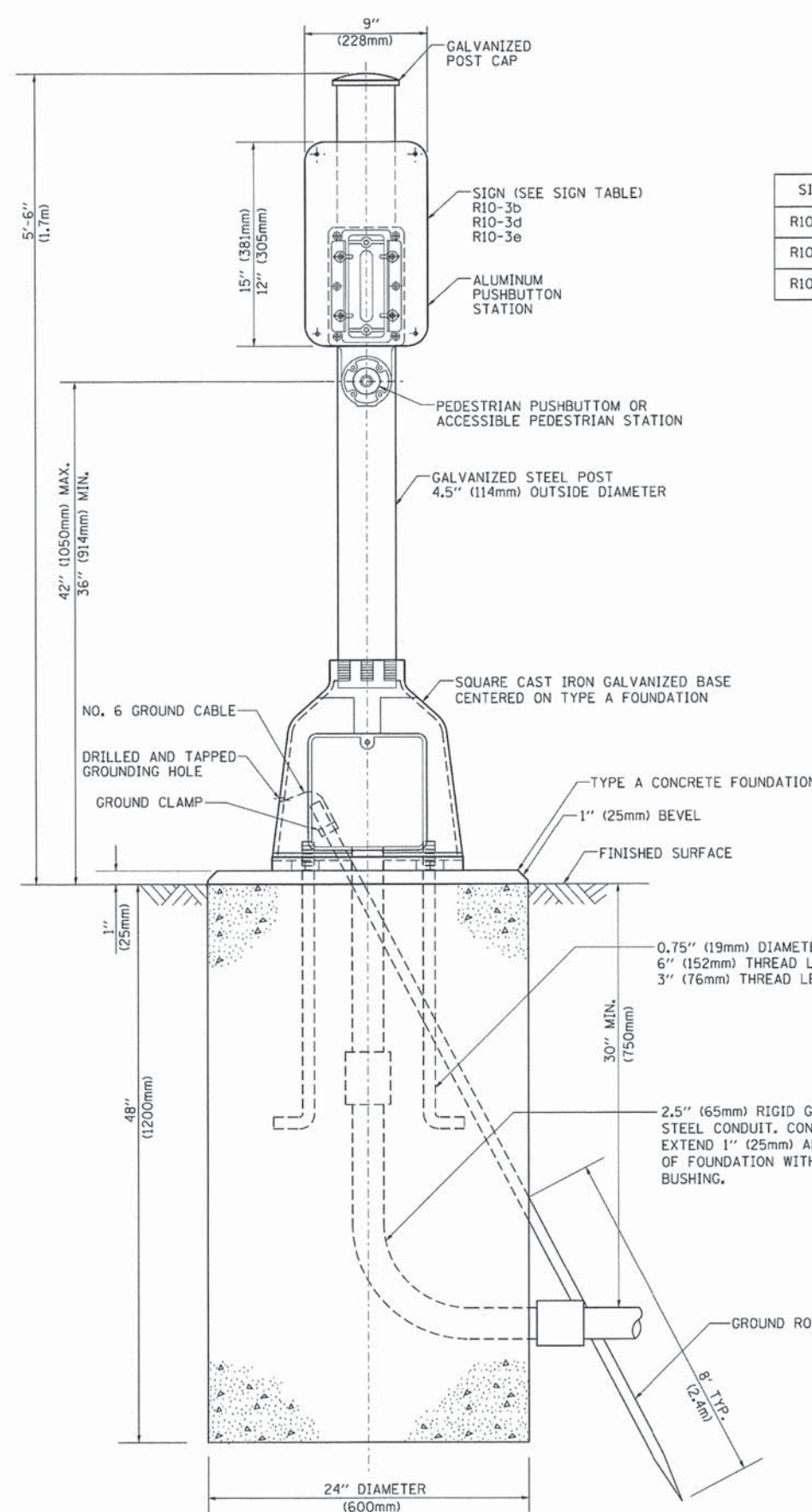
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PLT SCALE: 58.0200' / 1"	PLOT DATE: 1/13/2014	DRAWN: BCK	REVISIONS:
		CHECKED: DAD	REVISIONS:
		DATE: 10-28-09	REVISIONS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

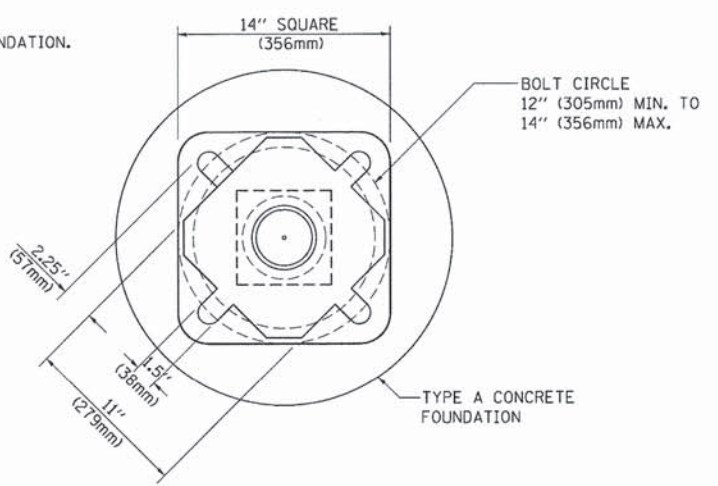
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	42
TS-05			CONTRACT NO. 61B45	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



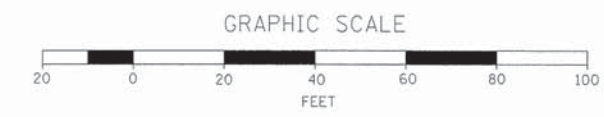
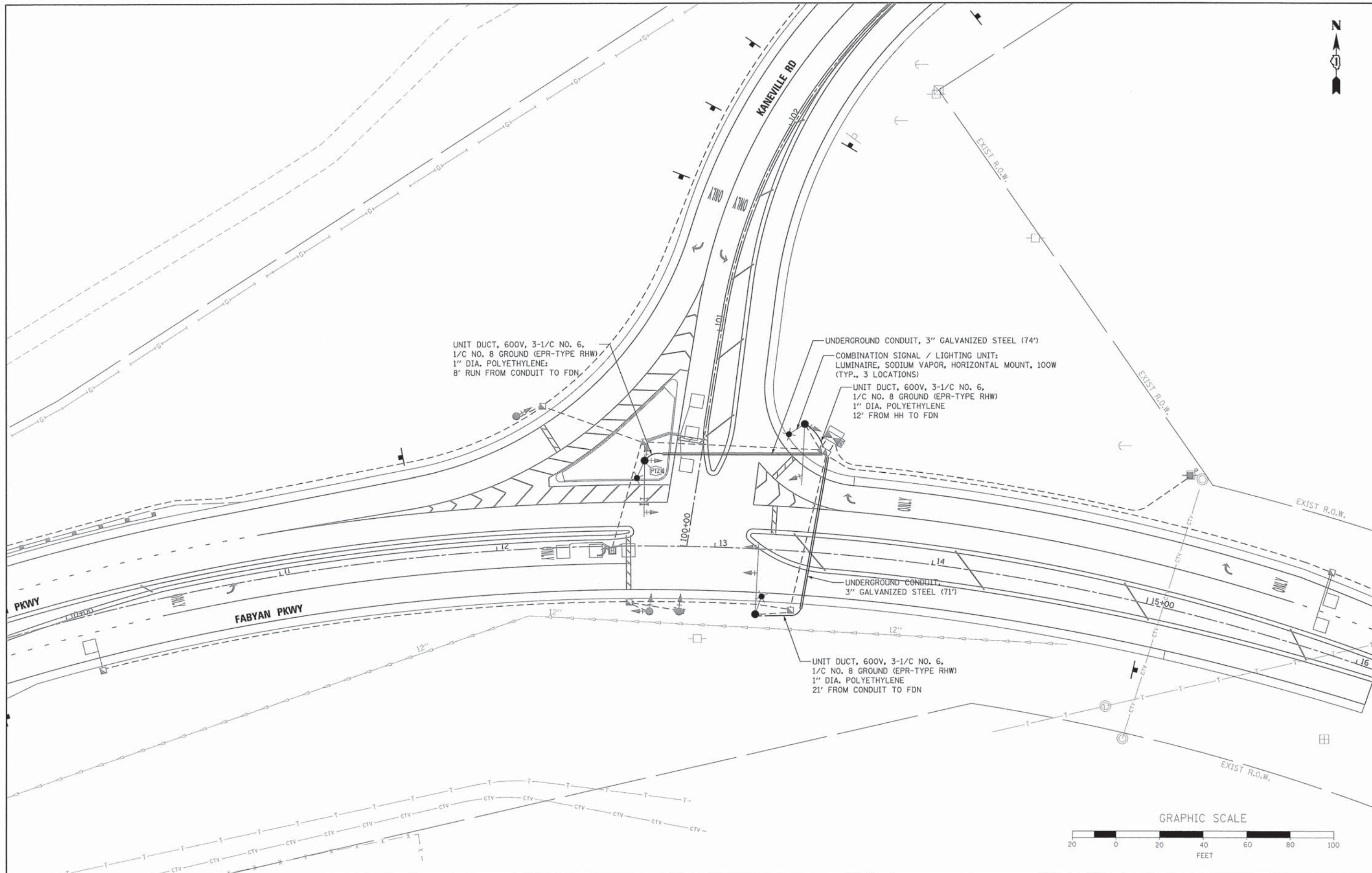
BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME: BURNS MCDONNELL	USER NAME = Footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
cd:\pwork\pedestrian\ts05\ts05.dgn		DRAWN - GND	REVISED -
PLOT SCALE = 5/8" = 1'-0"		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	43
TS-05		CONTRACT NO. 61B45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312) 223-0920 / F: (312) 223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = r.j.seng
 PLOT SCALE = 20,0000' / 1" = 200'
 PLOT DATE = 3/16/2015

DESIGNED - MAP
 DRAWN - RGJ
 CHECKED - MAP
 DATE - 03/16/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

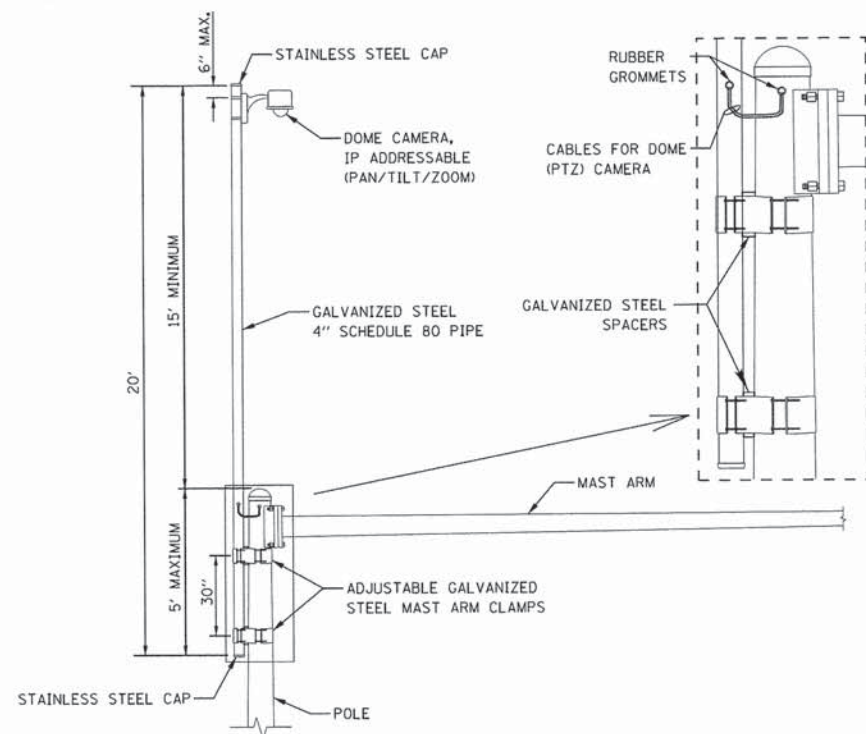
**LIGHTING INSTALLATION PLAN
 FABYAN PARKWAY AT KANEVILLE RD**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	44
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES FOR ALL PTZ (PAN, TILT, ZOOM) CAMERA INSTALLATIONS

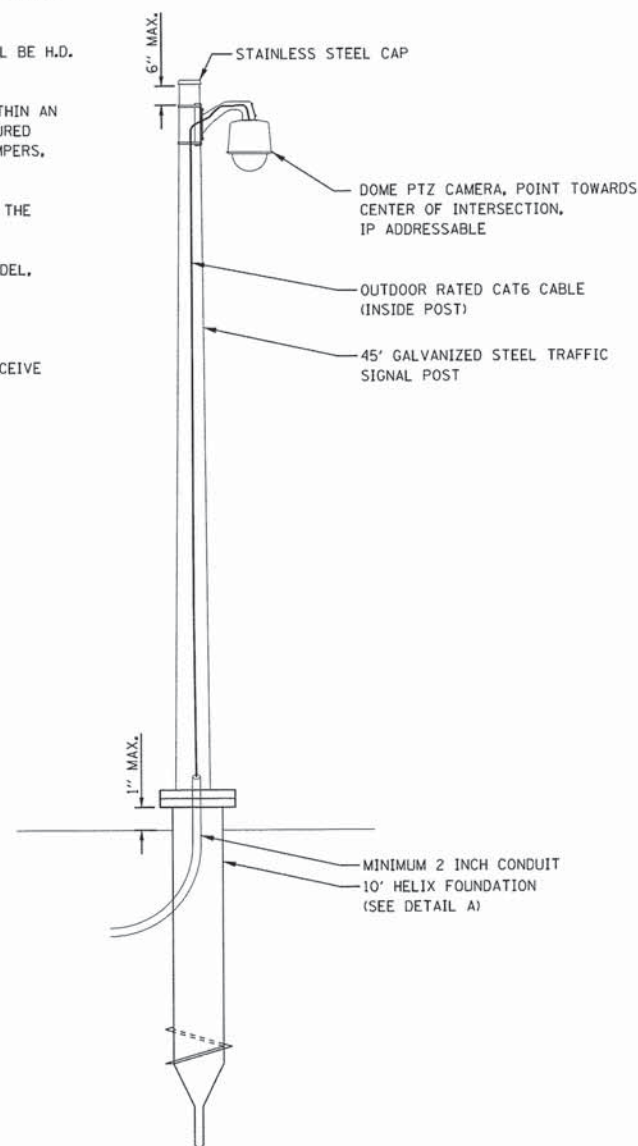
1. CABLE SLACK SHALL MEET IDOT REQUIREMENTS EXCEPT WHERE SLACK IS PROVIDED IN HANDHOLES AND DOUBLE HANDHOLES. SLACK SHALL BE 15' MIN. IN ALL HANDHOLES FOR PTZ RELATED CABLES.
2. PTZ CAMERAS SHALL BE IP (INTERNET PROTOCOL) ADDRESSABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH KDOT TRAFFIC IN REQUESTING AND PROGRAMMING THE IP ADDRESS DESIRED BY KDOT TRAFFIC INTO THE PTZ EQUIPMENT. ANY VIDEO SOFTWARE, ENCODING, OR DECODING HARDWARE/SOFTWARE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE COST OF THE PTZ CAMERA SYSTEM.
3. CAMERA SHALL HAVE A MINIMUM THIRTY (30x) MECHANICAL ZOOM AND MINIMUM TWELVE (12x) DIGITAL ZOOM. VIDEO QUALITY SHALL BE H.D. TV QUALITY (720p MINIMUM).
4. PTZ CAMERA SHALL BE HIGH POE (POWER OVER ETHERNET) UNLESS OTHERWISE STATED. A POE EXTENDER SHALL BE INSTALLED WITHIN AN APPROPRIATELY SPACED AUXILIARY CABINET (DT-ST SERIES) AS TO NOT EXCEED 300 FEET CONSECUTIVE CABLE LENGTH AS MEASURED ALONG THE CABLE (INCLUDING CABLE SLACK). COST OF AUXILIARY CABINET AND REQUISITE ADDITIONAL CABLES, FIBER OPTIC, JUMPERS, ETC. SHALL BE INCLUDED IN THE COST OF THE PTZ CAMERA BEING INSTALLED.
5. PTZ CABLES SHALL BE OUTDOOR RATED CAT6 UNLESS OTHERWISE RECOMMENDED BY EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER.
6. CONTRACTOR SHALL PROVIDE AN ITEMIZED INVENTORY OF THE PTZ CAMERA EQUIPMENT AND CABINET COMPONENTS CONTAINING MODEL, SERIAL, AND PART NUMBERS. THIS INVENTORY TO BE FURNISHED DURING SIGNAL OR MAINTENANCE TRANSFER.
7. RUBBER GROMITS SHALL BE INSTALLED IN ALL HOLES / OPENINGS USED TO RUN PTZ EQUIPMENT CABLE.
8. THE CONTRACTOR SHALL CONTACT KANE COUNTY TRAFFIC PRIOR TO INSTALLING THE PTZ CAMERA AND ASSOCIATED WIRING TO RECEIVE FINAL APPROVAL ON THE CAMERA LOCATION.



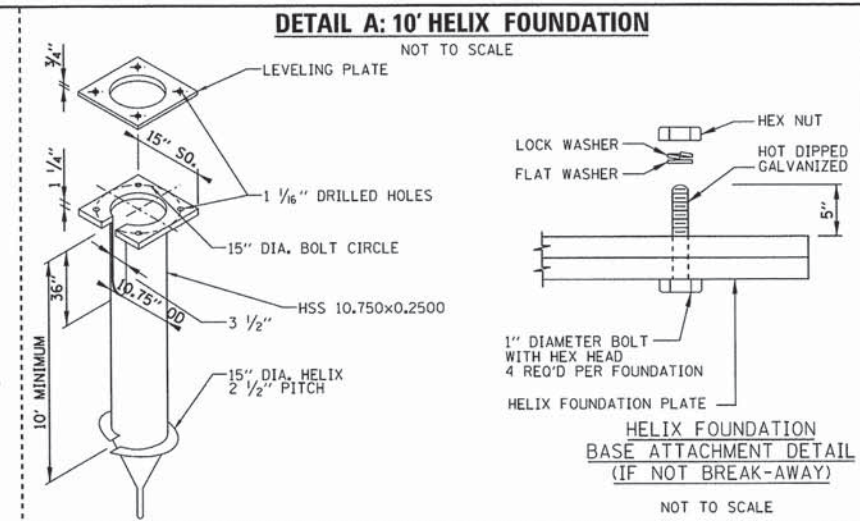
**CAMERA MOUNTING ASSEMBLY DETAIL:
PIPE / POLE EXTENSION**
(NOT TO SCALE)

NOTES:

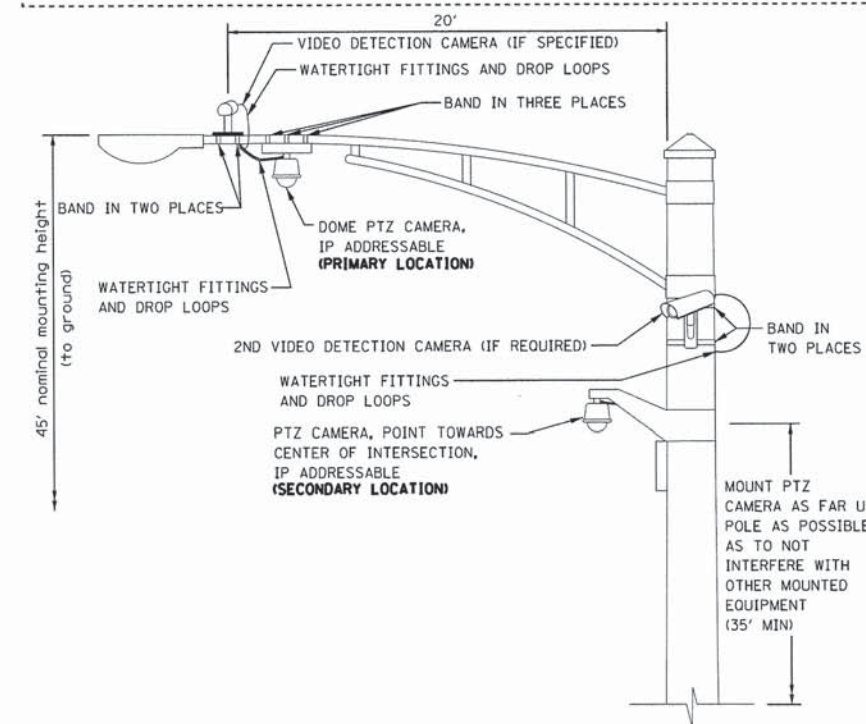
- THE MAST ARM IS TAPERED.
- INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIRED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
- SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS.



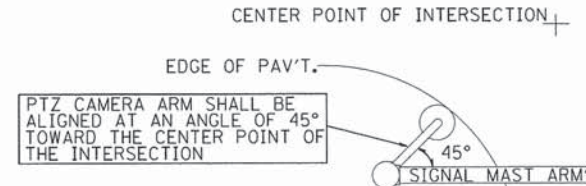
**CAMERA MOUNTING ASSEMBLY DETAIL:
STAND-ALONE 45' POST**
(NOT TO SCALE)



**HELIX FOUNDATION
BASE ATTACHMENT DETAIL
(IF NOT BREAK-AWAY)**
(NOT TO SCALE)



**CAMERA MOUNTING ASSEMBLY DETAIL:
COMBINATION MAST ARMS**
(NOT TO SCALE)



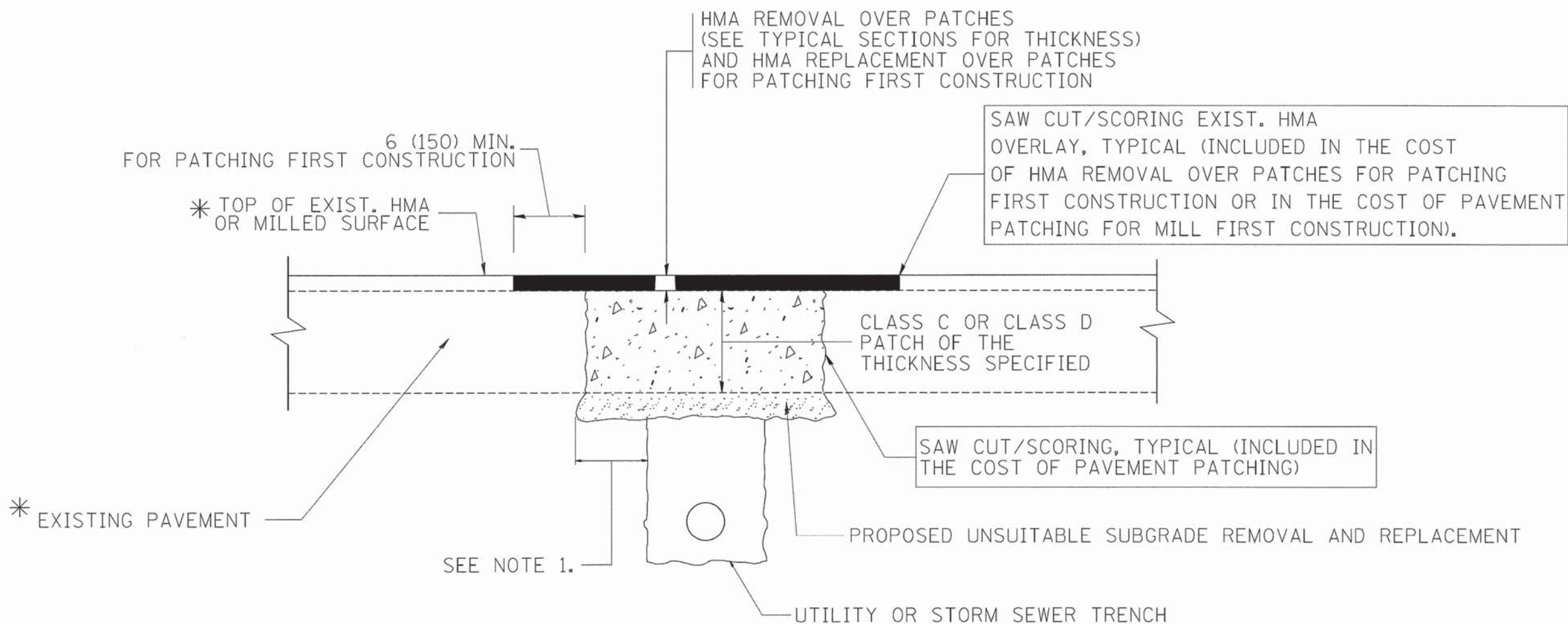
**PTZ CAMERA MOUNTING DETAILS
(SECONDARY LOCATION ONLY)**
(NOT TO SCALE)

FILE NAME: D:\MicroStation\KDOT Items\SDZ Details\PTZ Details.dwg

USER NAME: SDZ	DESIGNED: SDZ 12/31/14	REVISED: SDZ 02/23/15	KANE COUNTY DIVISION OF TRANSPORTATION	CCTV / PTZ CAMERA INSTALLATION DETAILS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE: 1/8" = 1'-0"	DRAWN: SDZ 12/31/14	REVISED:		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO.		
PLOT DATE: 3/6/2015	CHECKED: DRAFT	REVISED:		ILLINOIS FED. AID PROJECT								
	DATE: 01-16-2015	REVISED:										

USER NAME: r.jiang	DESIGNED: MAP	REVISED:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV / PTZ CAMERA INSTALLATION DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE: 2/8" = 1'-0"	DRAWN: RGJ	REVISED:		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 61B45		
PLOT DATE: 4/6/2015	CHECKED: RMG	REVISED:		ILLINOIS FED. AID PROJECT								
	DATE: 03/16/2015	REVISED:										

**BURNS
MEDONNELL**
200 W. ADAMS STREET / SUITE 1600
CHICAGO, IL 60606
P: (312) 223-0920 / F: (312) 223-9664
WEB: WWW.BURNSMCD.COM



* 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)

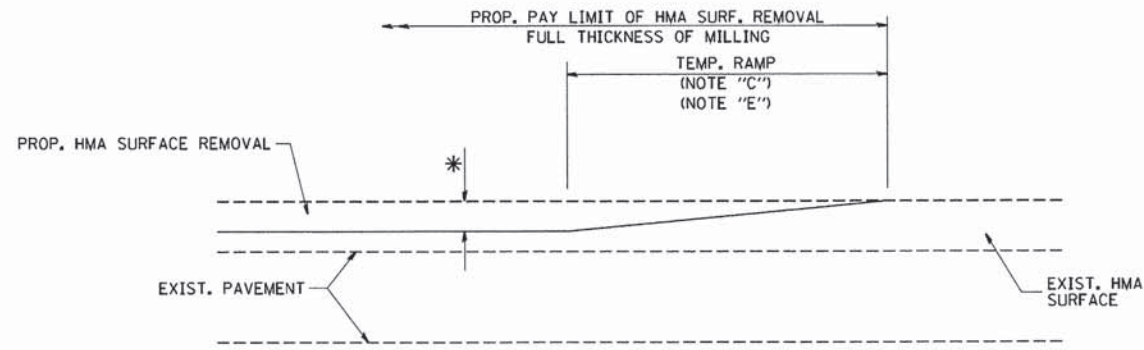
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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.

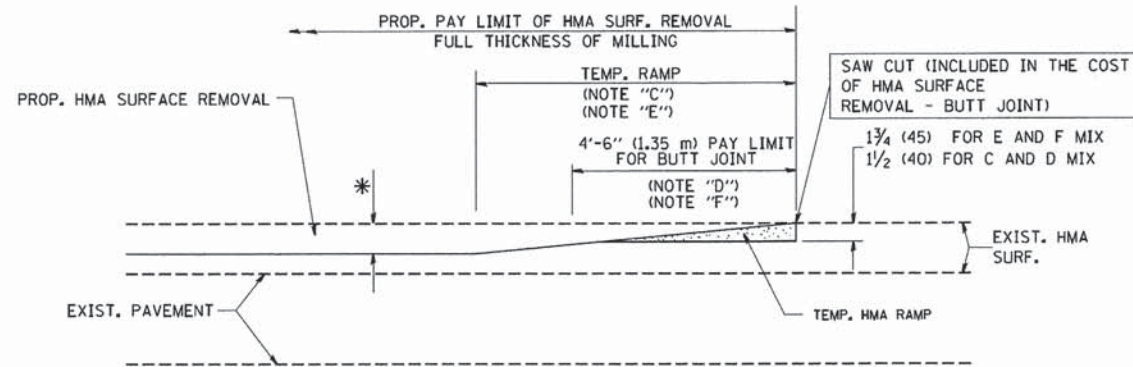
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = c:\projects\diststd22\34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. BORO 01-01-07		523	11-00420-00-CH	KANE	64	46			
	PLOT DATE = 10/27/2008	CHECKED -	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 61845				
		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



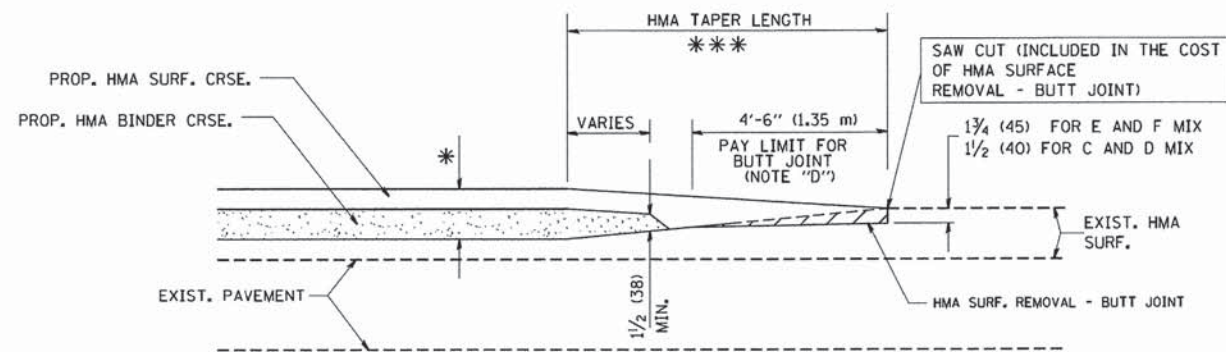
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

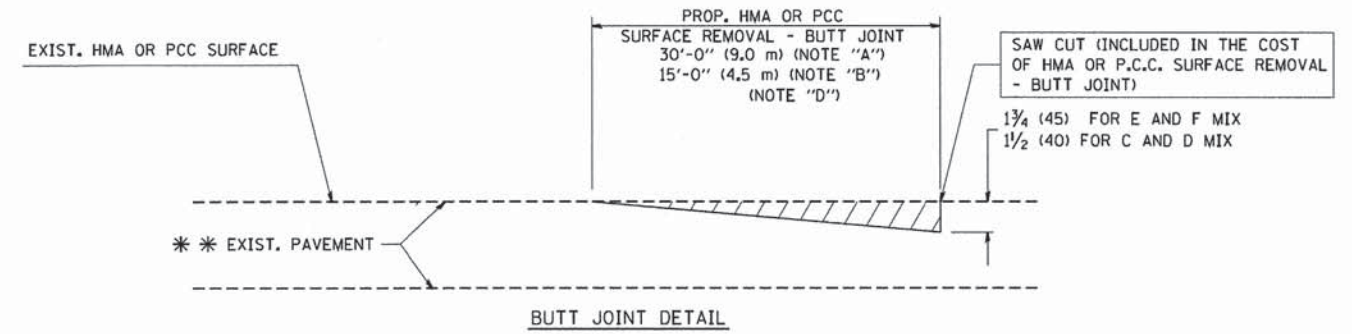


HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

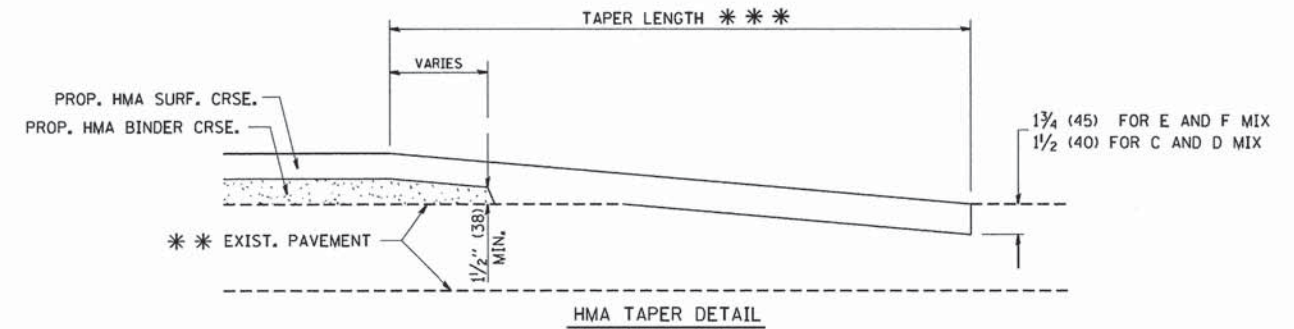
OPTION 2
TYPICAL TEMPORARY RAMP



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



BUTT JOINT DETAIL



HMA TAPER DETAIL

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.

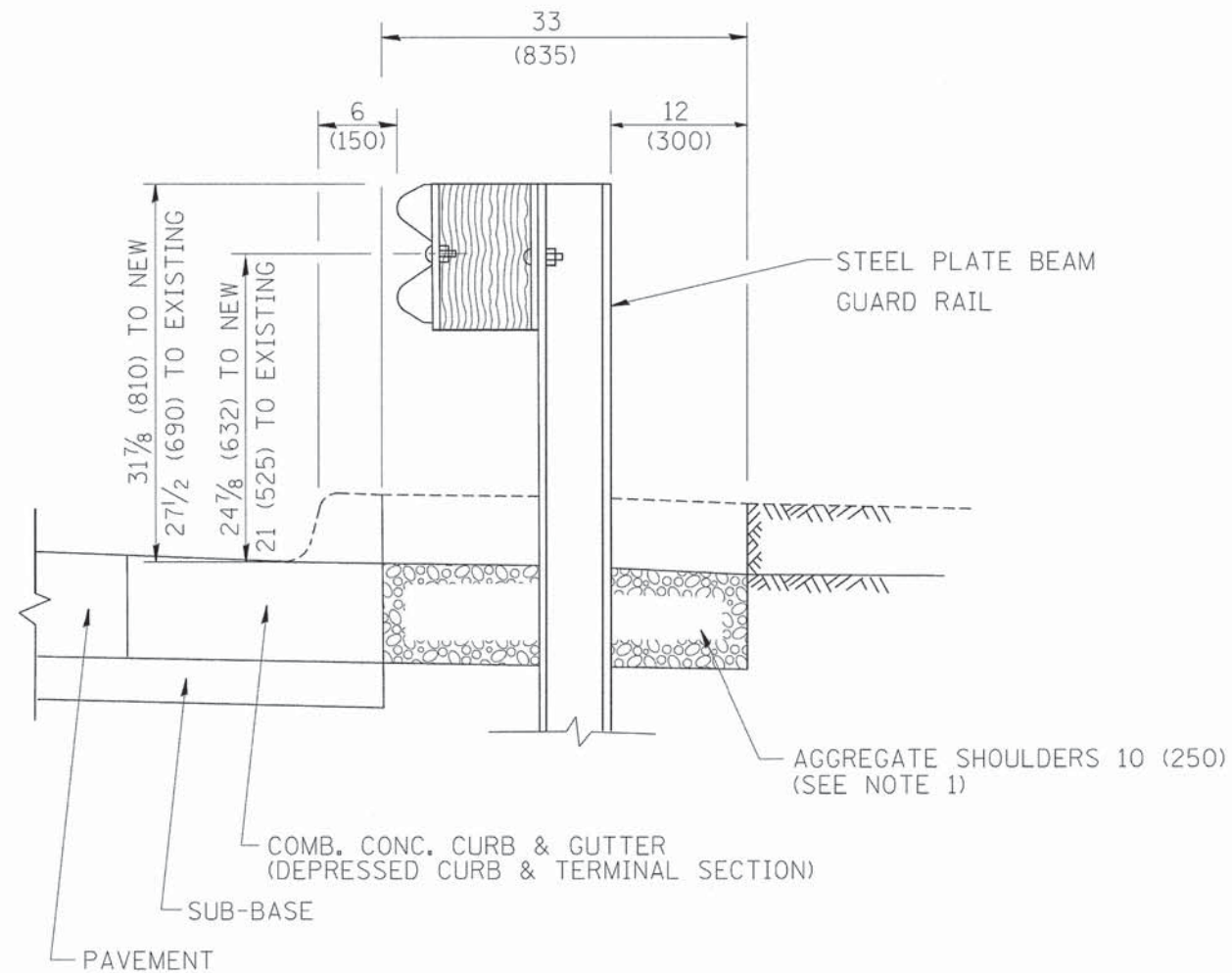
FILE NAME: BURNS MCDONNELL	USER NAME: gaglianob	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 58.8000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS

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

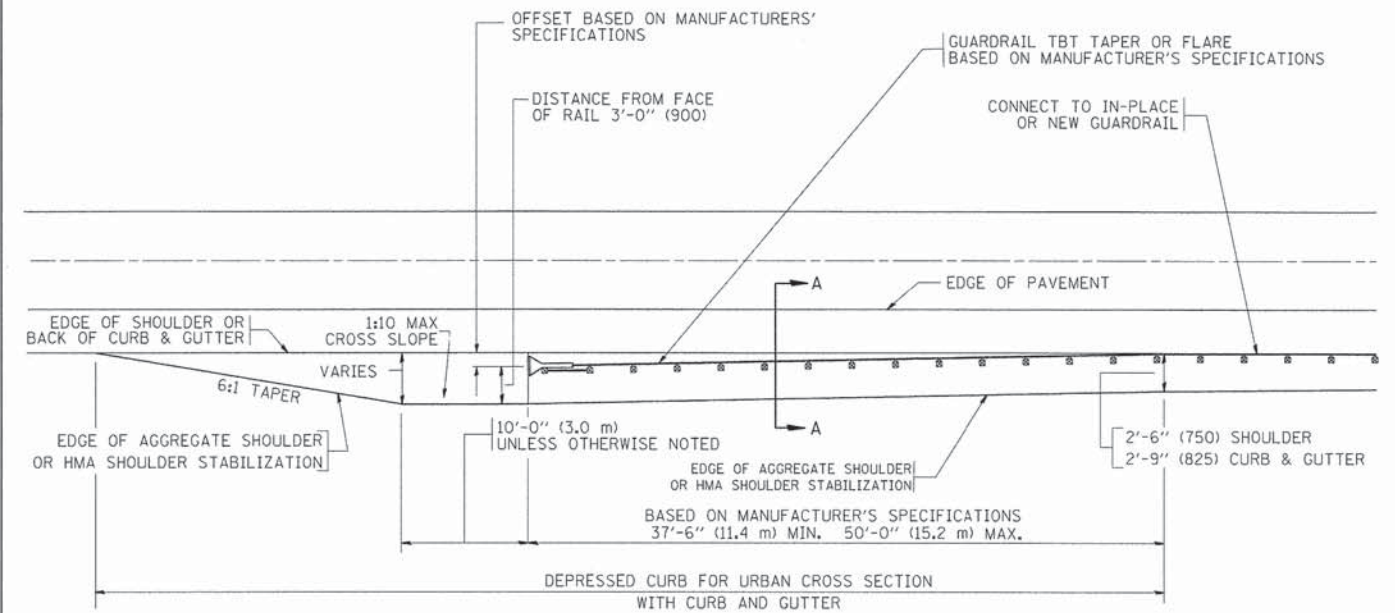
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	47
BD400-05 BD32		CONTRACT NO.	61B45	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM
 GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND
 SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - M. DE YONG	REVISED - E. GOMEZ 08-28-00
os:\p\work\PIWIDOT\DRIVAKOSGN\08108315\034.dgn		DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 49.9999 1/ IN.		CHECKED -	REVISED - R. BORO 12-08-2008
PLOT DATE = 9/21/2009		DATE - 09-22-90	REVISED - R. BORO 09-14-2009

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

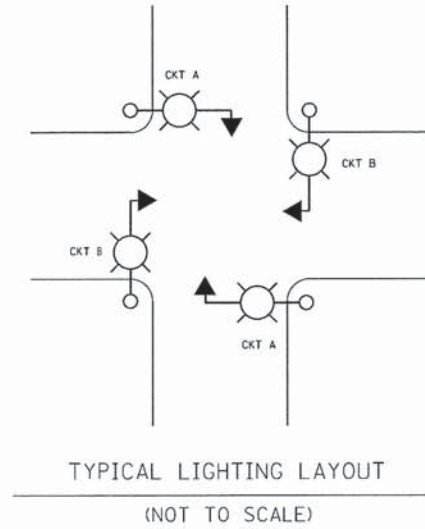
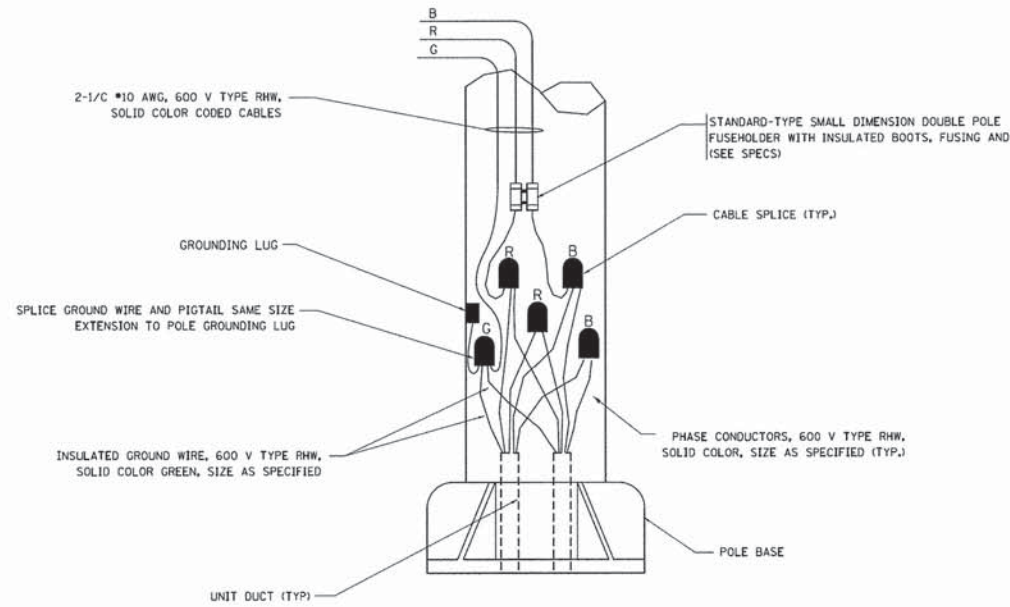
DETAILS FOR DEPRESSED CURB & GUTTER AND
 SHOULDER TREATMENT AT TBT TY 1 SPL.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	48
BD600-10 (BD 34)			CONTRACT NO. 61B45	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PANEL EQUIPMENT

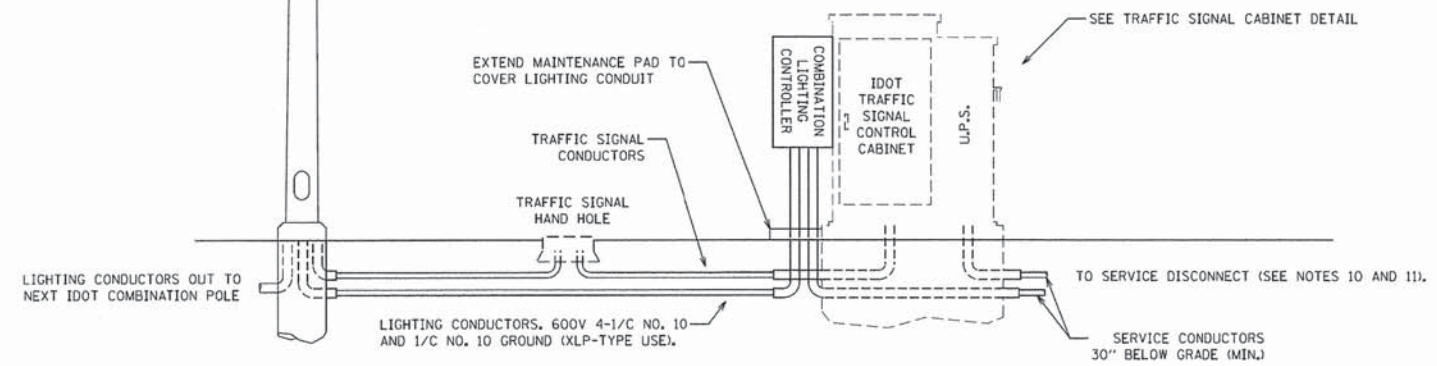
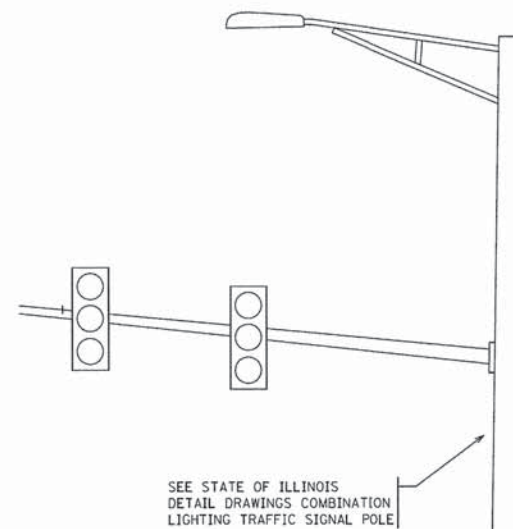
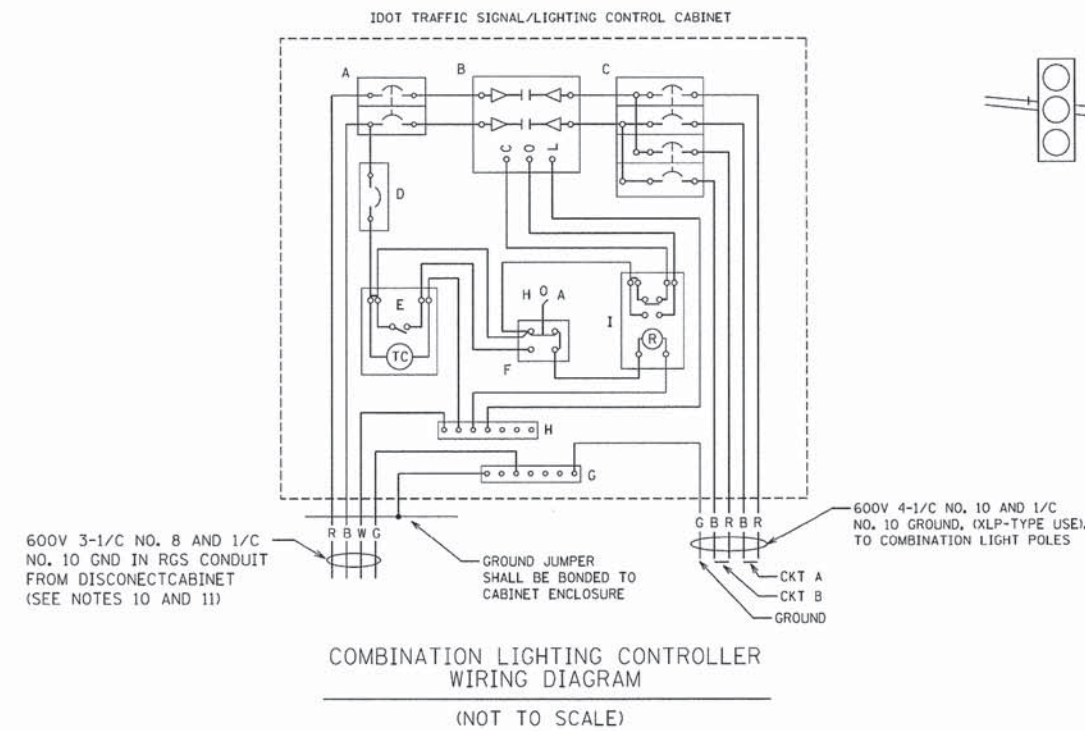
BILL OF MATERIALS		
ITEM	QUANTITY	DESCRIPTION
A	1	CIRCUIT BREAKER, THERMAL MAGNETIC MOLDED CASE, 2 POLE, 240 VOLT 100 AMP FRAME, 30 AMP TRIP, INTERRUPTING RATING 22K RMS SYMMETRICAL AMP
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 30 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
C	2	CIRCUIT BREAKERS, 2 POLE, 100 AMP, FRAME 20 AMP, NON-INTERCHANGABLE TRIP INTERRUPTING RATING NEMA 10,000 AMP AT 240 V.
D	1	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 100 AMP FRAME, 15 AMP NON-INTERCHANGABLE TRIP, INTERRUPTING RATING 22K RMS SYMMETRICAL AMP AT 240V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH)
F	1	H-O-A SWITCH
G	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
H	1	COPPER NEUTRAL BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
I	1	RELAY, 2 POLE, SINGLE THROW, 120 VOLT COIL, CURRENT RATING TO BE COORDINATED WITH CONTACTOR



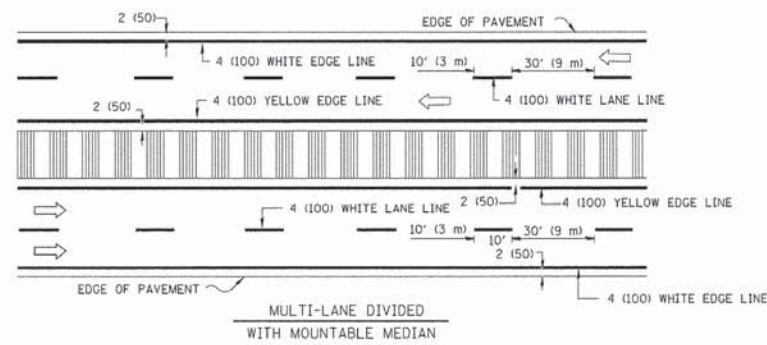
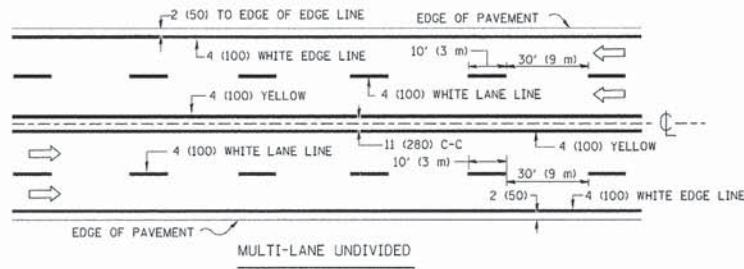
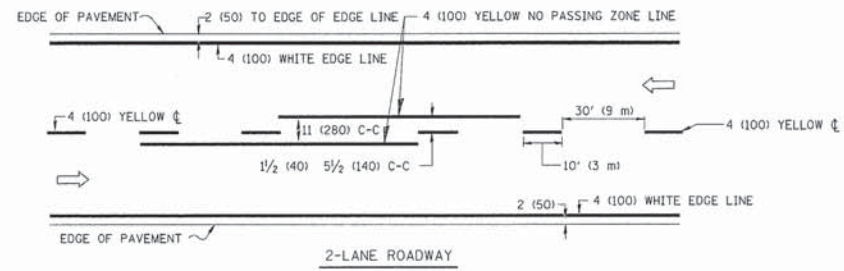
COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES:

- ALL WIRING RELATED TO THE LIGHTING CONTROLS SHALL BE #10 AWG, 600V, TYPE SWITCH BOARD WIRE, STRANDED COPPER.
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE ENCLOSURE.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY. UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED.
- THE COMBINATION POLE LIGHTING CABLING DETAIL IS INTENDED TO SHOW CONNECTIONS ONLY. FOR FURTHER INFORMATION ON THE COMBINATION LIGHT POLE, THE TRAFFIC SIGNAL CONTROL CABINET, AND THE SERVICE DISCONNECT BOX OR CABINET REFER TO THE RESPECTIVE DETAIL DRAWINGS.
- COMBINATION LIGHTING SHALL BE TIMED TO ENERGIZE 20 MINUTES PRIOR TO DUSK AND DE-ENERGIZE 20 MINUTES AFTER DAWN.
- COMBINATION LIGHTING CONTROLLER AND ALL COMBINATION POLES SHALL HAVE IDOT DESIGNATIONS AND LABELS. LIGHTING CONTROLLER DESIGNATIONS SHALL BE COORDINATED WITH THE BUREAU OF TRAFFIC - LIGHTING SECTION.
- ENCLOSURE SHALL BE UNPAINTED, NATURAL ALUMINUM FINISH, SHALL BE U.L. LISTED NEMA TYPE 3R AND SHALL BE 26" X 17" X 15"
- 12" X 16" STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- ELECTRIC SERVICE SHALL BE 120V/240V SERVICE AND SHALL BE A SHARED SERVICE FOR COMBINATION LIGHTING AND TRAFFIC SIGNALS.
- CONDUIT SIZES TO THE SERVICE DISCONNECT SHALL BE COORDINATED WITH THE SERVICE DISCONNECT DETAILS. REFER TO THE FOLLOWING DETAIL DRAWINGS FOR THE SERVICE DISCONNECT.
FOR POLE MOUNTED ELECTRIC SERVICE USE "COMBINATION LIGHTING AND TRAFFIC POLE MOUNTED ELECTRIC SERVICE BOX" (BE-230).
FOR GROUND MOUNTED ELECTRIC SERVICE USE "STANDARD COMBINATION LIGHTING DISCONNECT" CONTAINED IN THE TRAFFIC SIGNAL DETAILS.

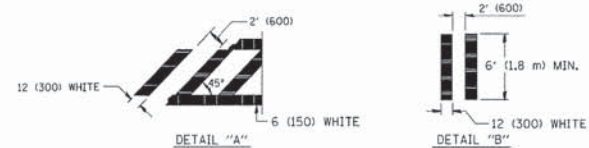
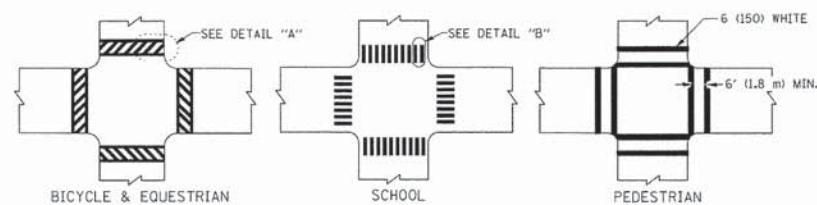


COMBINATION POLE LIGHTING CABLING - TYPICAL
(NOT TO SCALE)

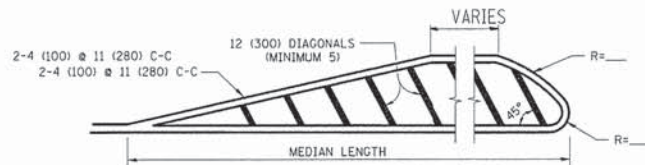
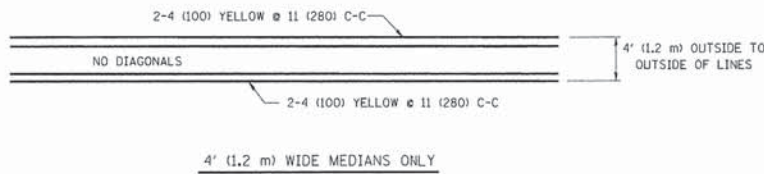


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

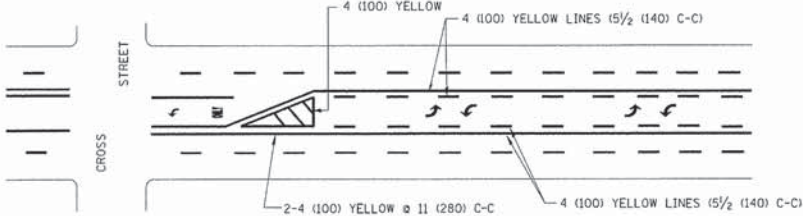


TYPICAL CROSSWALK MARKING

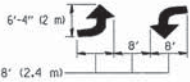


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

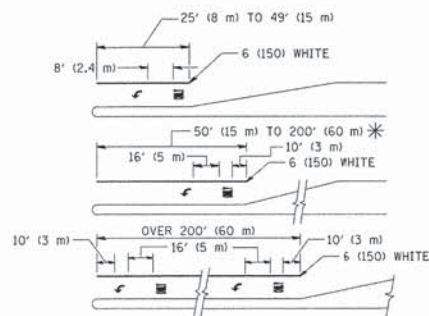


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

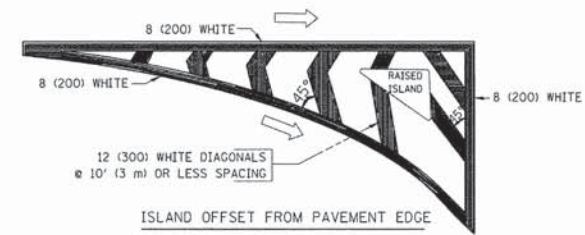


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

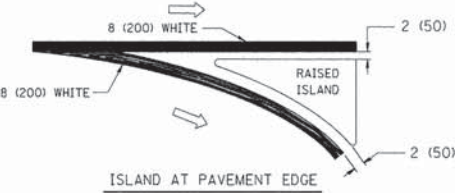
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND 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 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.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m 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.

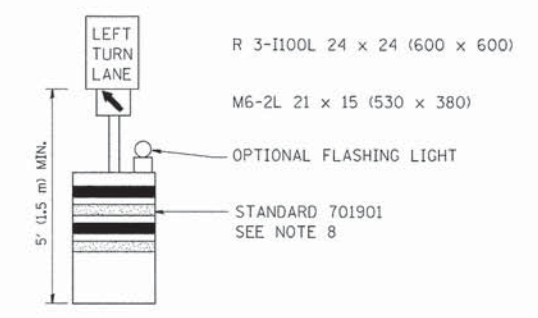
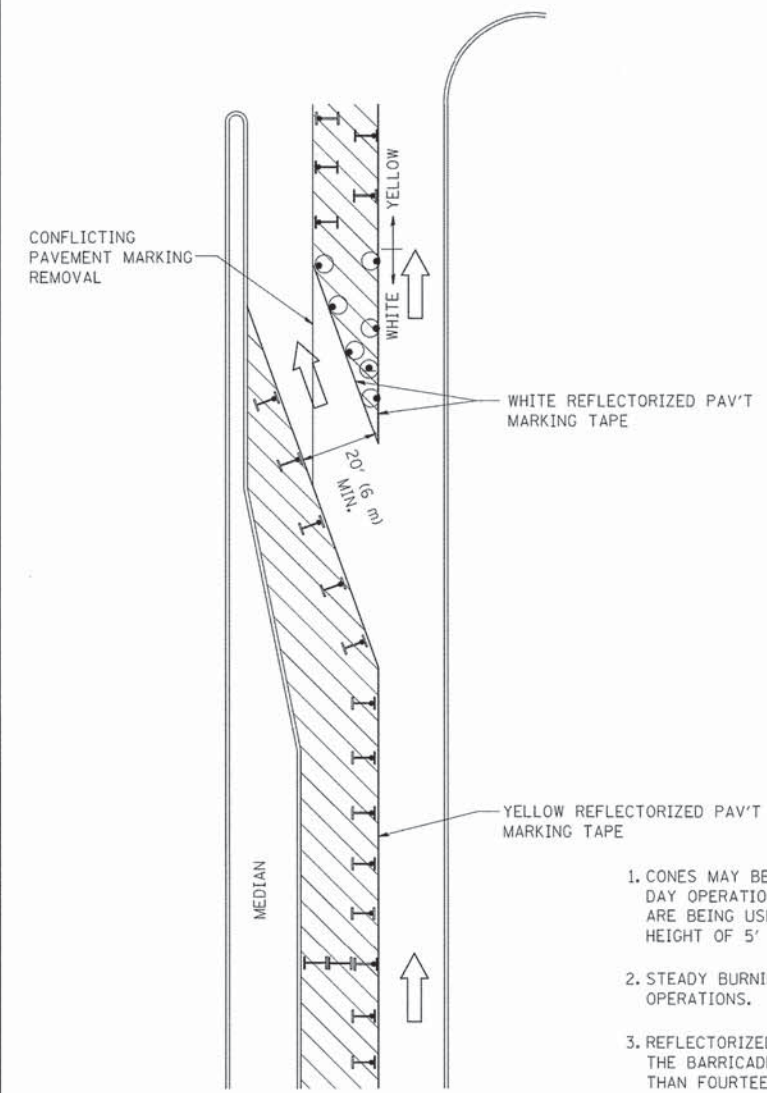
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME: BURNS MCDONNELL	USER NAME: drivaokgn	DESIGNED: EVERS	REVISED: -T. RAMMACHER 10-27-94
al\p\work\p\burns_mcdonnell\100315\td	3.dgn	DRAWN: -	REVISED: -C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 "/ IN.	CHECKED: -	REVISED: -
	PLOT DATE = 9/9/2009	DATE: 03-19-90	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 52
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B45	









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 NCHR 350 PREQUIREMENTS.
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

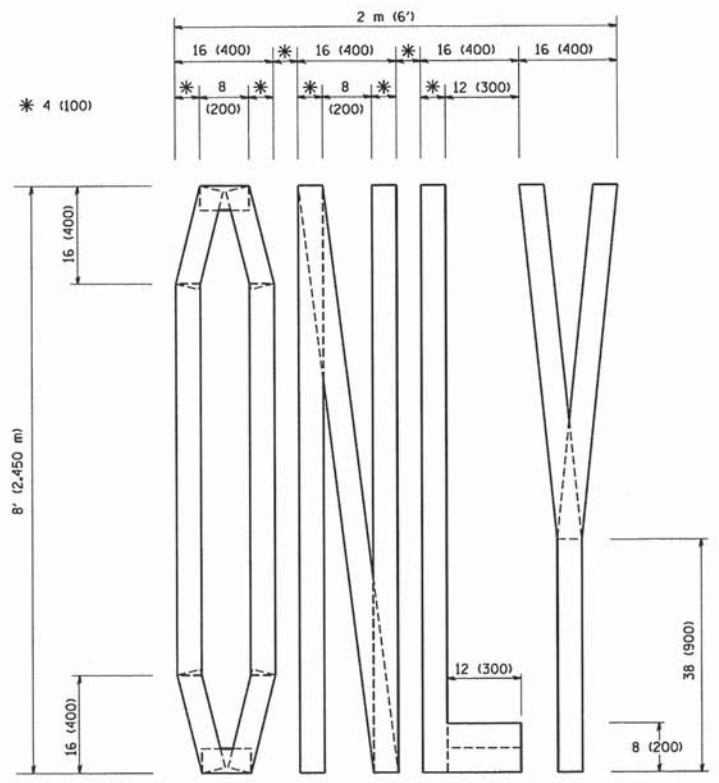
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME: BURNS MCDONNELL	USER NAME = drsvakosgn	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
cr:\pwork\VP\108315\108315.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
PLOT SCALE = 49,9999 ' / IN.		REVISED - A. HOUSEH 10-12-96	REVISED -
PLOT DATE = 9/14/2009		REVISED -T. RAMMACHER 01-06-00	REVISED -

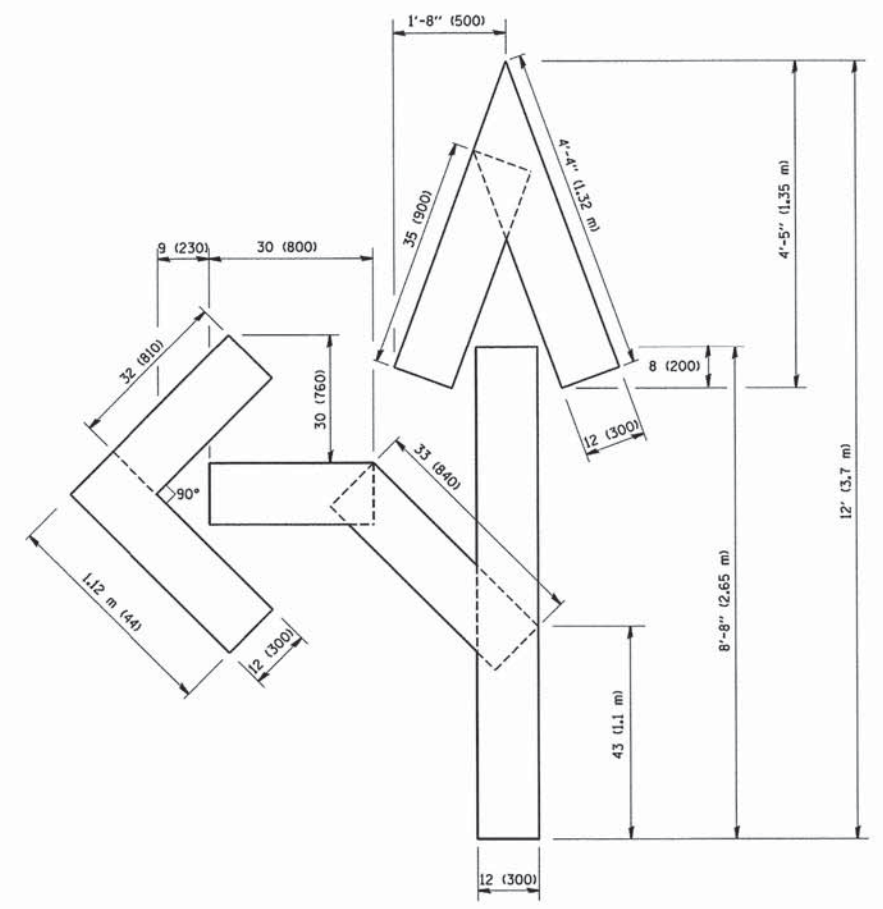
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

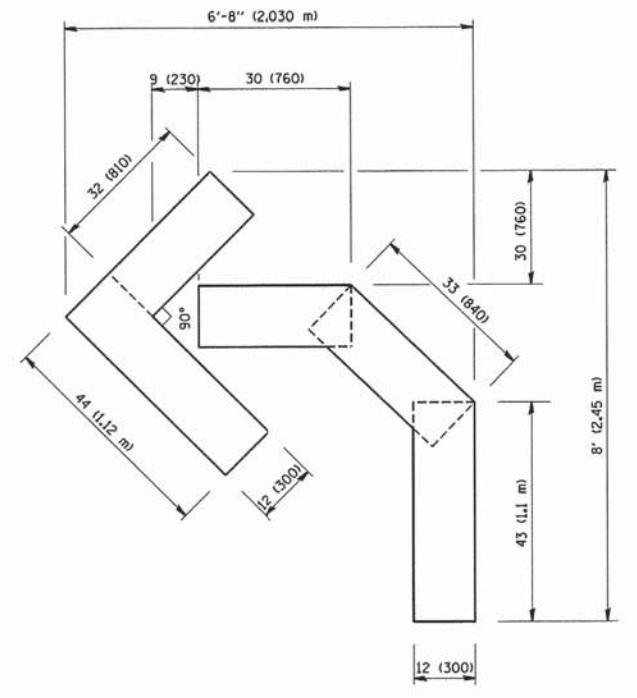
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	53
TC-14			CONTRACT NO.	61B45
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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: BURNS MCDONNELL	USER NAME: gaglienobt	DESIGNED: -	REVISED: -T, RAMMACHER 06-05-96
		DRAWN: -	REVISED: -T, RAMMACHER 11-04-97
		CHECKED: -	REVISED: -T, RAMMACHER 03-02-98
		DATE: 09-18-94	REVISED: -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	54
TC-16			CONTRACT NO. 61845	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES
MI-40-2424

FOR ILLINOIS ROUTES
MI-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

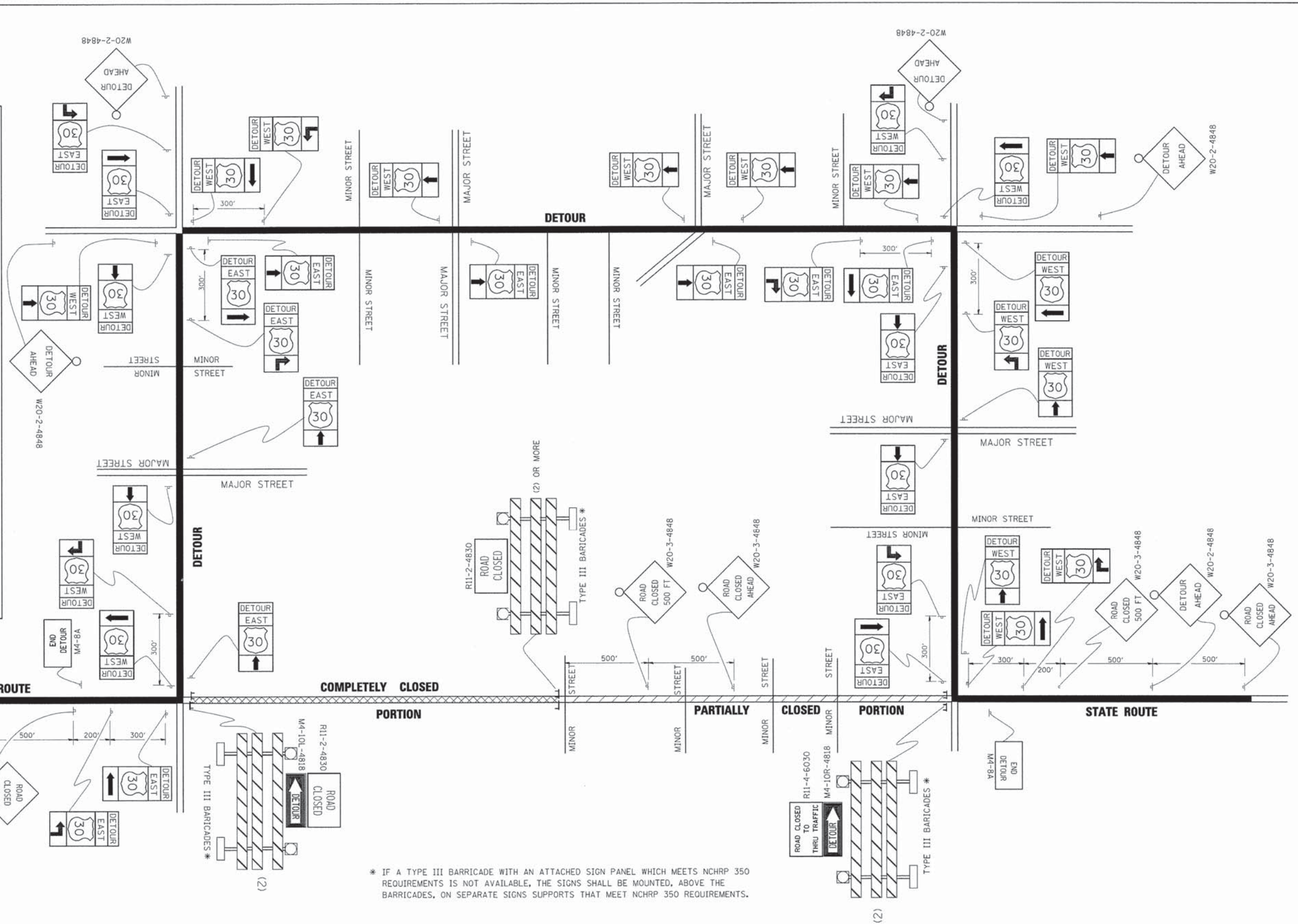
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

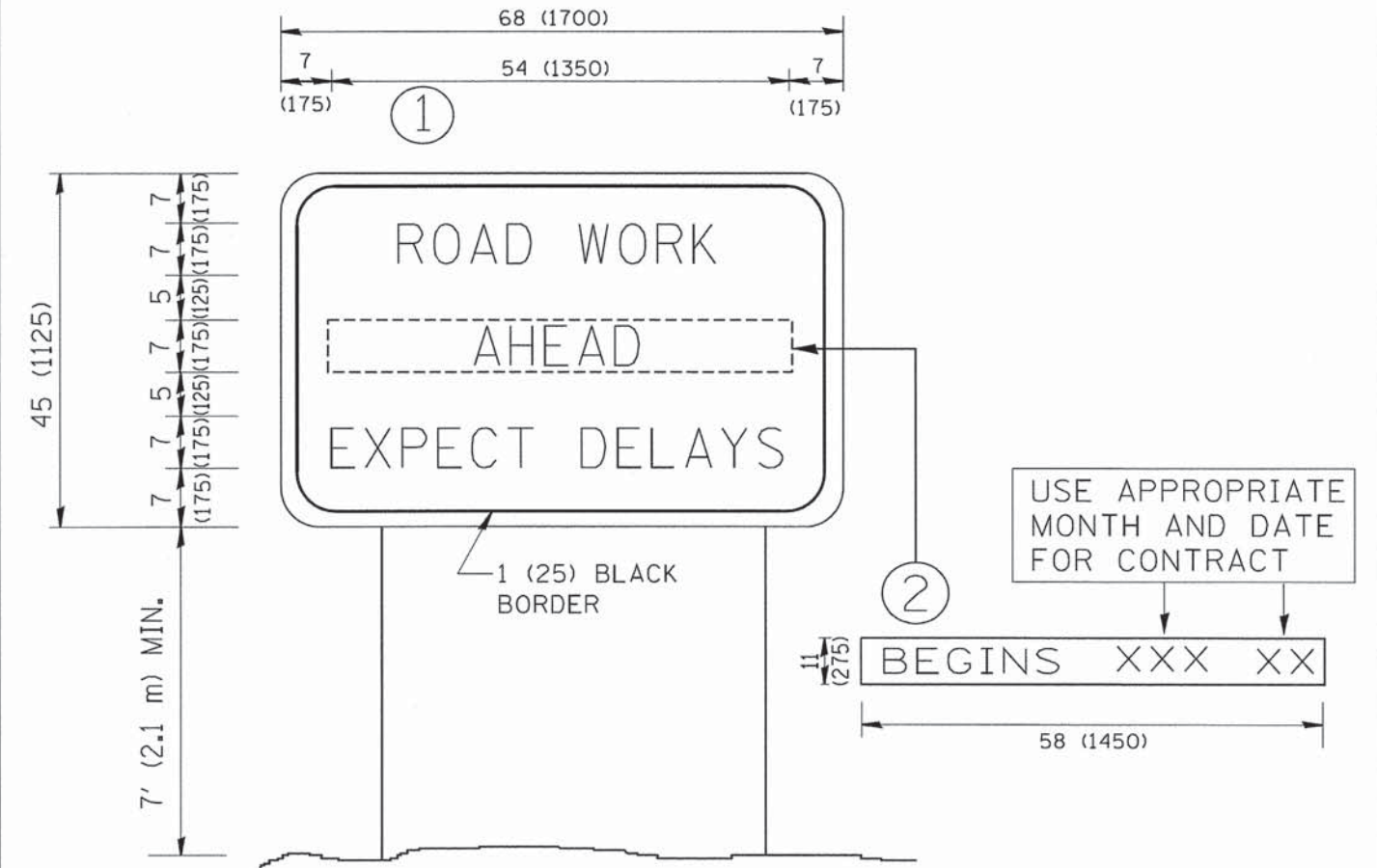
WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III 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 REQUIREMENTS.

FILE NAME: BURNS MCDONNELL	USER NAME: drivokasgn	DESIGNED: -	REVISED: - 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 55
PLOT SCALE = 49,9999" / IN.	CHECKED: -	REVISED: - R. BORO 09-14-09	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-21		CONTRACT NO. 61B45			
PLOT DATE = 9/14/2009	DATE: -	REVISED: -					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 BURNS MCDONNELL	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

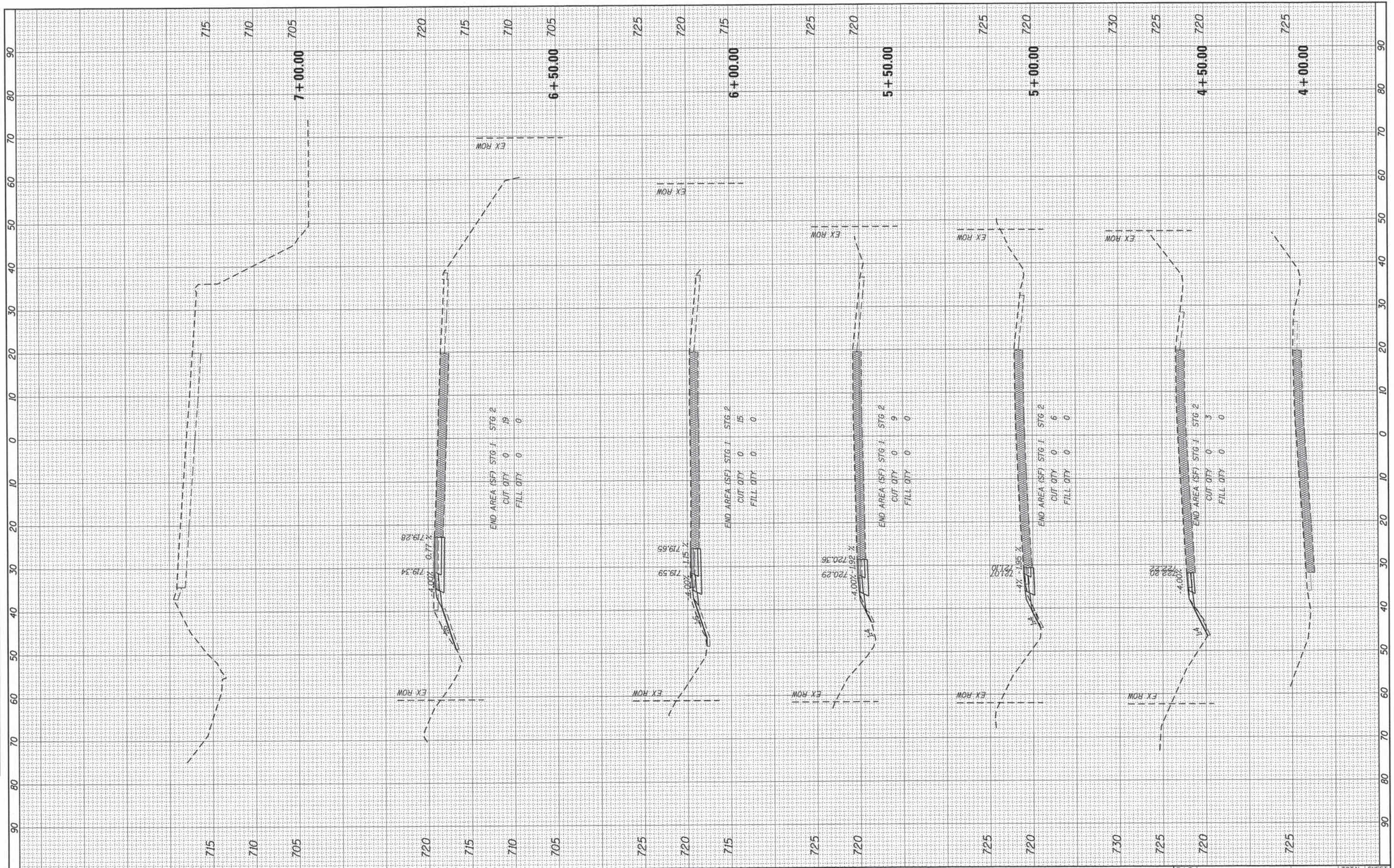
**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	56
TC-22			CONTRACT NO.	61845
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

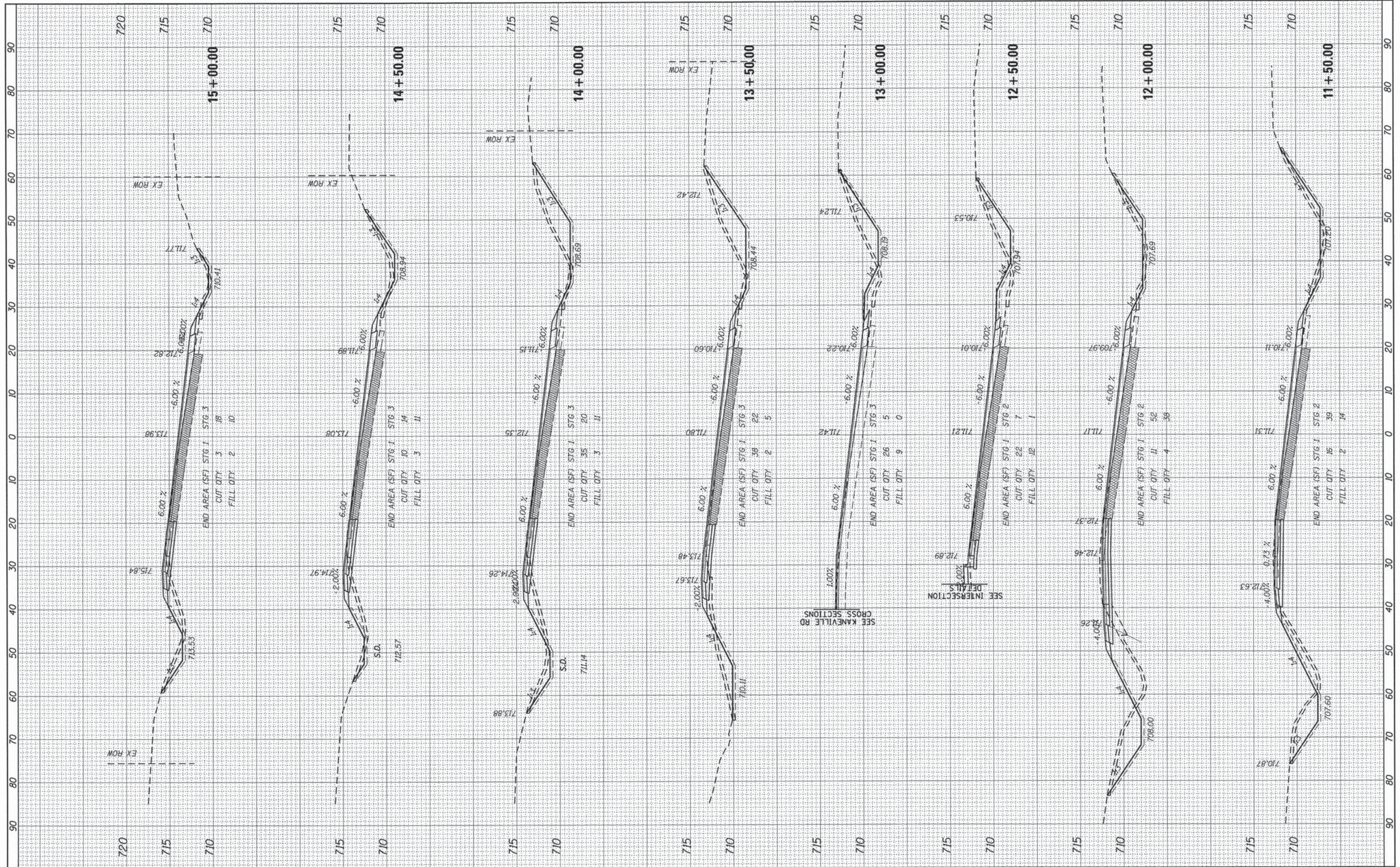
ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



FILE NAME = 88999-sht-xs.dgn	USER NAME = rjiang	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FABYAN PARKWAY CROSS SECTIONS			F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 57
Default	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 4+00.00	TO STA. 7+00.00	CONTRACT NO. 61B45 ILLINOIS FED. AID PROJECT	
	PLOT DATE = 3/13/2015	CHECKED -	REVISED -									
		DATE -	REVISED -									

FINAL SURVEY	DATE
CONVERTED	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
CONVERTED	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



FILE NAME = 88999-shr-va.dgn
 USER NAME = r.jiang
 PLOT SCALE = 10.0000' / 1" =
 PLOT DATE = 3/13/2015

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

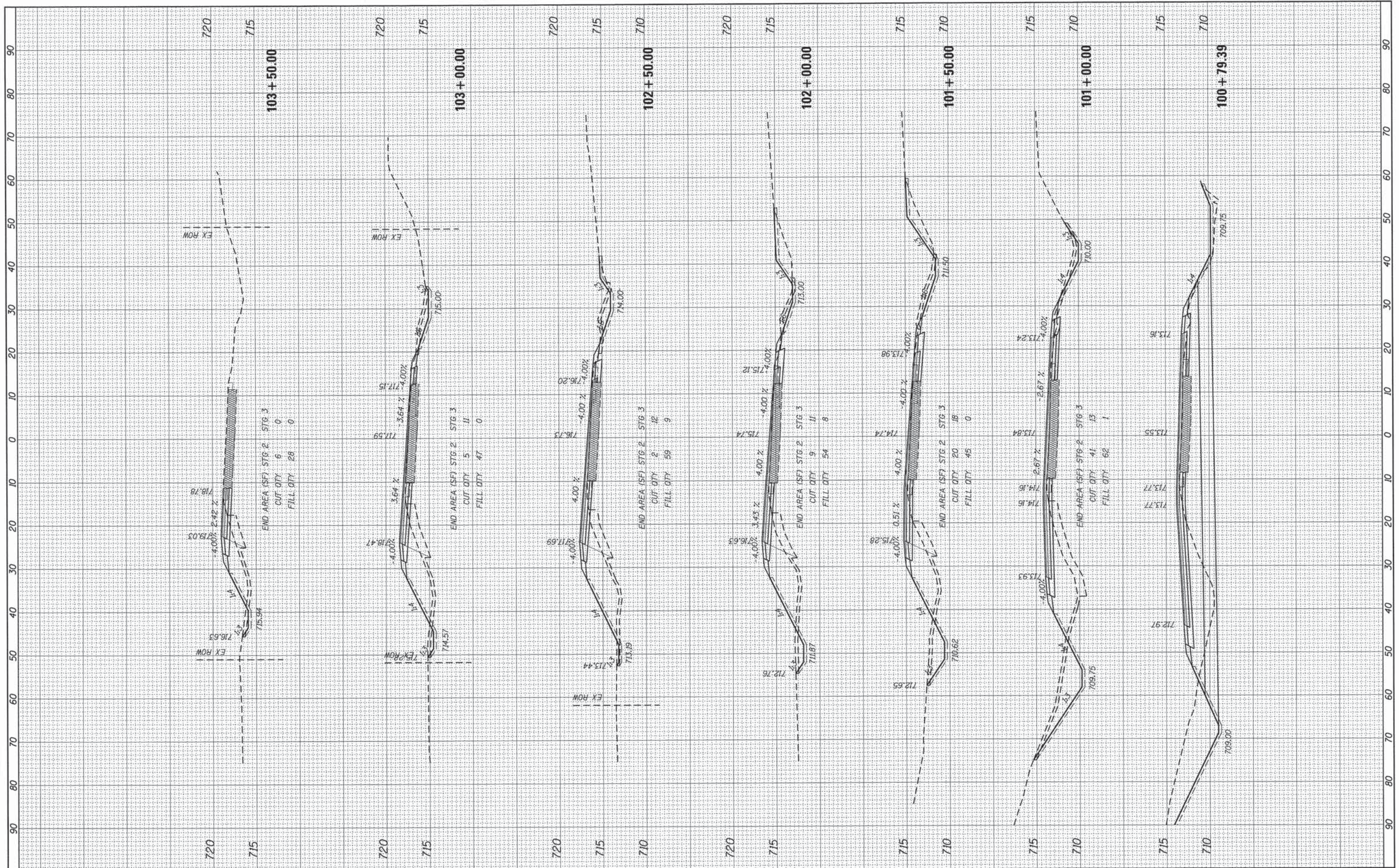
FABYAN PARKWAY CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 11+50.00 TO STA. 15+00.00

F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 59
				61B45
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
DESIGNED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		
NO.		

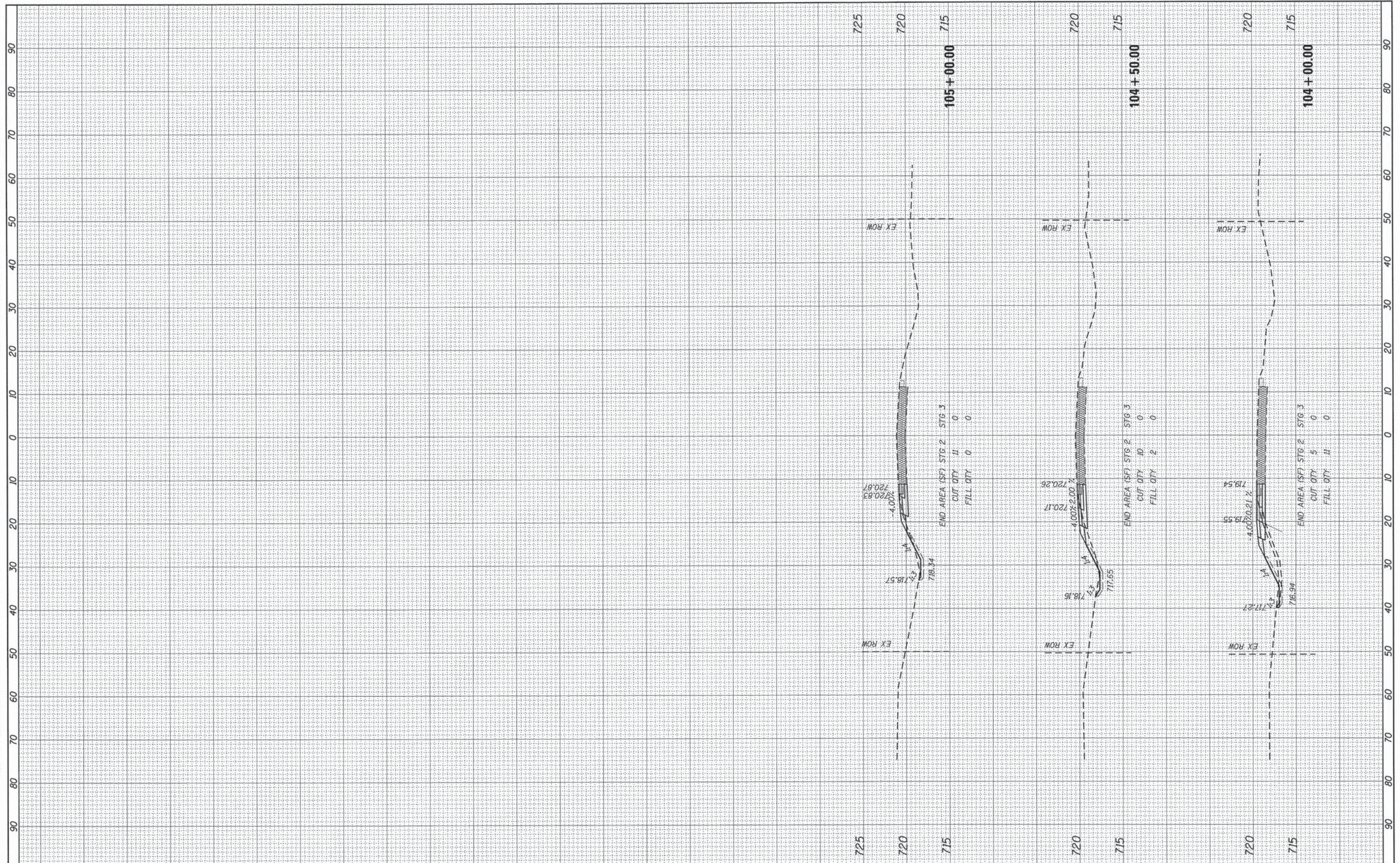
ORIGINAL SURVEY	BY	DATE
DESIGNED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		
NO.		



FILE NAME = 80999-sht-xs.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	KANEVILLE ROAD CROSS SECTIONS			F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 61
Default	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 100+50.00	TO STA. 103+50.00	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 3/13/2015	CHECKED -	REVISED -								61B45	
		DATE -	REVISED -									

FINISH	SURVEY	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	
NO.		

ORIGINAL	SURVEY	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	
NO.		



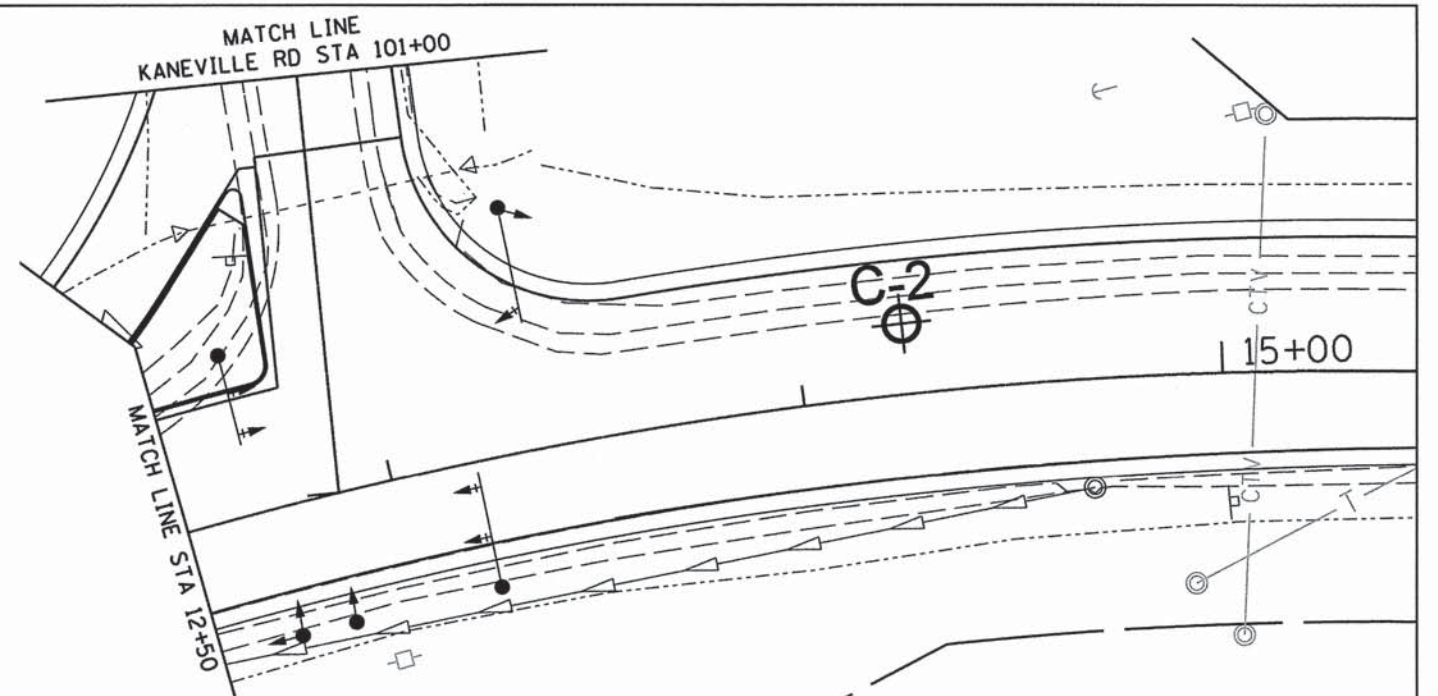
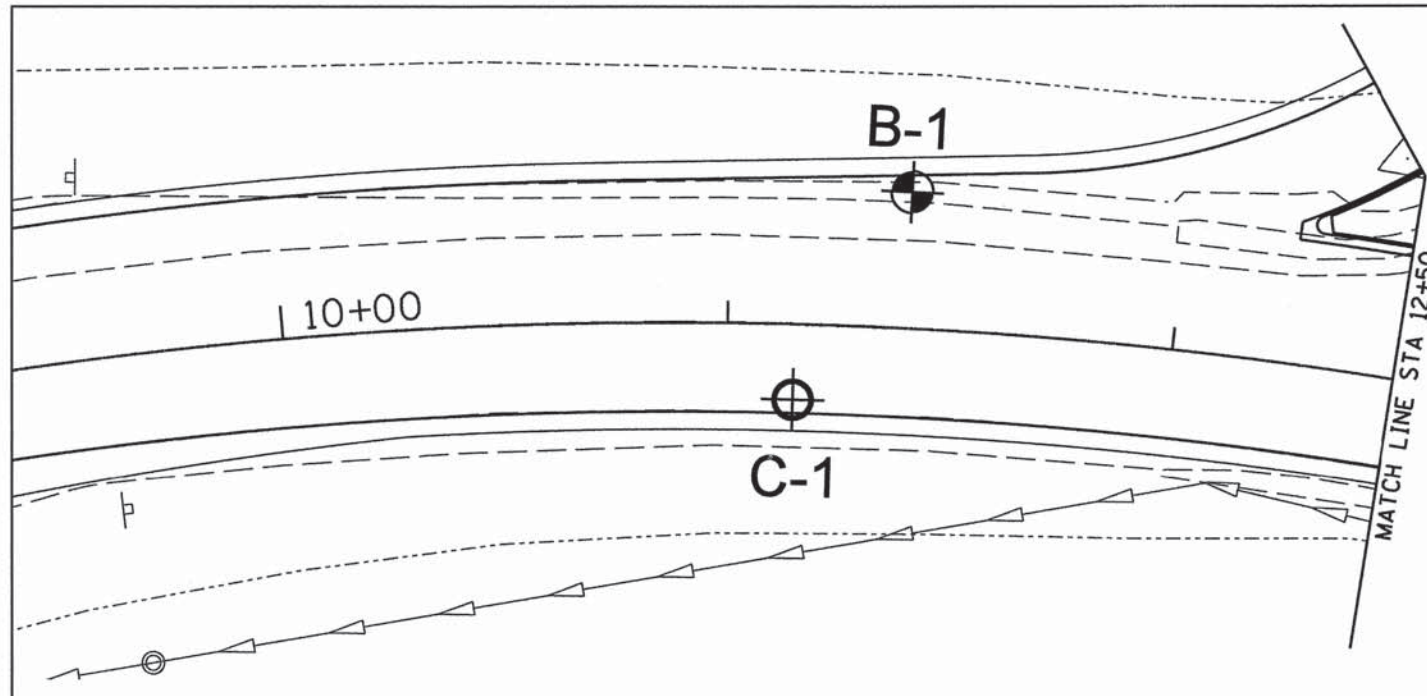
FILE NAME =	USER NAME = r.jiang
88999-shr-vw.dgn	
Default	
PLOT SCALE = 10.0000' / 1"	
PLOT DATE = 3/13/2015	

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

KANEVILLE ROAD CROSS SECTIONS			
SCALE:	SHEET	OF	SHEETS
			STA. 104+00.00 TO STA. 105+00.00

F.A.P. R.T.E. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 62
ILLINOIS FED. AID PROJECT				61B45



SOIL BORING LOG		PAGE 1 of 1	
OBA O'BRIEN & ASSOCIATES, INC. CONSULTING ENGINEERS 1225 E. 84th St., Suite 100, Chicago, IL 60649 (847) 388-1441 • FAX (847) 388-3378		DATE January 14, 2015 LOGGED BY R.J. OBA JOB No. 14649	
ROUTE <u>Fabyan Parkway</u> DESCRIPTION <u>Roadway Intersection Improvements w/Kaneville Road</u>			
SECTION <u>11-00420-00-CH</u> LOCATION <u>Batavia, IL Township 39N RBE Section 18</u>			
COUNTY <u>Kane</u> DRILLING METHOD <u>Hollow Stem Auger</u> HAMMER TYPE <u>CME Automatic</u>			
STRUCT. NO. <u>NA</u> Station <u>NA</u>			
BORING NO. <u>B-1</u> Station <u>11+40</u> Offset <u>30.7' Left</u> Ground Surface Elev. <u>712.6</u>			
		Surface Water Elev. <u>n/a</u> Stream Bed Elev. <u>n/a</u> Groundwater Elevation: First Encounter <u>Dry</u> Upon Completion <u>Dry</u> After <u>n/a</u> Hrs. <u>n/a</u>	
DEPTH (ft)	SOIL DESCRIPTION	U.C.S. (tsf)	MOISTURE (%)
0	SANDY TOPSOIL FILL—brown		
711.6			
22	LOAM FILL—brown & black—medium dense (A-4)		
8			
11		NP	14
709.1			
4	CLAY—mottled black & brown very stiff wet		
8			
16		2.25P	27
706.6			
10	SAND & GRAVEL—brown—medium dense to dense		
14			
18		NP	7
10			
11			
10		NP	9
-10			
-20			
END OF BORING @ -10.0' 4.0" Hollow Stem to -10.0'			

SUMMARY OF PAVEMENT CORES

Fabyan Parkway/Kaneville Road Intersection Improvements Kane County, Illinois

OBA Job No. 14649

Core No.	Thickness (in)	Comments
On Fabyan Parkway, Station 11+15, 17.0' Right		
C-1	2.0	Asphalt, surface mix, well consolidated
	2.0	Asphalt, surface mix, well consolidated
	3.0	Asphalt, binder mix, well consolidated well bonded with lift above
	5.0	Asphalt, binder mix, well consolidated
	2.0	Asphalt, surface mix, well consolidated, well bonded with lift above
	3.5	Asphalt, surface mix, well consolidated, well bonded with lift above
6.5+	Crushed Stone, apparent CA-6 gradation	
On Fabyan Parkway, Station 14+25, 16.8' Left		
C-2	4.0	Asphalt, surface mix, well consolidated
	2.0	Asphalt, binder mix, well consolidated well bonded with lift above
	3.0	Asphalt, binder mix, well consolidated
	12.0	Concrete, well consolidated, no reinforcing steel Hand Auger Refusal

O'BRIEN & ASSOCIATES, INC.

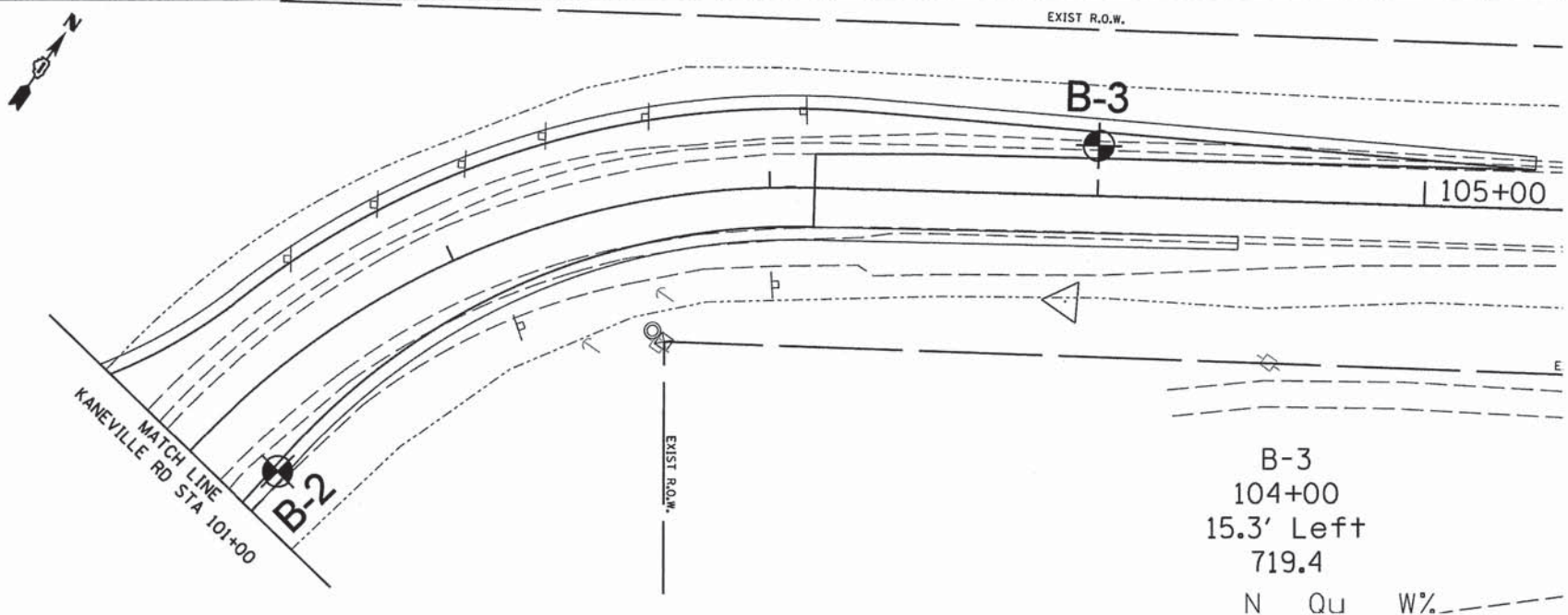
BURNS MEDONNELL
 200 W. ADAMS STREET / SUITE 1600
 CHICAGO, IL 60606
 P: (312) 223-0920 / F: (312) 223-9664
 WEB: WWW.BURNSMCD.COM

USER NAME = r.jiang	DESIGNED - MAP	REVISED -
PLOT SCALE = 1/8"=1'-0"	DRAWN - RGJ	REVISED -
PLOT DATE = 3/13/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'
 SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
523	11-00420-00-CH	KANE	64	63
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				



PAGE 1 of 1
DATE January 14, 2015
LOGGED BY RJ
OBA JOB No. 14649

SOIL BORING LOG

ROUTE Fabvan Parkway DESCRIPTION Roadway Intersection Improvements w/Kaneville Road
SECTION 11-00420-00-CH LOCATION Batavia, IL Township 39N R8E Section 18
COUNTY Kane DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. NA
Station NA
BORING NO. **B-2**
Station 101+15
Offset 23.6' Right
Ground Surface Elev. 713.0

DEPTH (ft)	BLOW COUNT (blows/ft)	UNSATURATED MOISTURE (%)	SURFACE WATER ELEV.		STREAM BED ELEV.		DEPTH (ft)	BLOW COUNT (blows/ft)	UNSATURATED MOISTURE (%)
			ft	in	ft	in			
0			n/a		n/a				
3	102								
4	1.7B	21							
10									
8									
9	4.5+P	10							
13									
12	NP	12							
704.5									
4		112							
5									
6	4.1B	18							
-10									
-15									
-20									

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 706.0
Upon Completion 706.0
After n/a Hrs. n/a

END OF BORING @ -10.0'
4.0" Hollow Stem to -10.0'

PAGE 1 of 1
DATE January 14, 2015
LOGGED BY RJ
OBA JOB No. 14649

SOIL BORING LOG

ROUTE Fabvan Parkway DESCRIPTION Roadway Intersection Improvements w/Kaneville Road
SECTION 11-00420-00-CH LOCATION Batavia, IL Township 39N R8E Section 18
COUNTY Kane DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. NA
Station NA
BORING NO. **B-3**
Station 104+00
Offset 15.3' Left
Ground Surface Elev. 719.4

DEPTH (ft)	BLOW COUNT (blows/ft)	UNSATURATED MOISTURE (%)	SURFACE WATER ELEV.		STREAM BED ELEV.		DEPTH (ft)	BLOW COUNT (blows/ft)	UNSATURATED MOISTURE (%)
			ft	in	ft	in			
0			n/a		n/a				
10	100								
5	2.8B	21							
715.9									
2		99							
4									
5	1.1B	28							
713.4									
5									
12									
19	NP	11							
6									
7									
10	11	9							
-15									
-20									

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry
Upon Completion Dry
After n/a Hrs. n/a

END OF BORING @ -10.0'
4.0" Hollow Stem to -10.0'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

BURNS MEDONNELL
200 W. ADAMS STREET / SUITE 1600
CHICAGO, IL 60606
P: (312) 223-0920 / F: (312) 223-9664
WEB: WWW.BURNSMCD.COM

USER NAME = r.jiang	DESIGNED - MAP	REVISED -
PLOT SCALE = 18.0000" / 1in.	DRAWN - RGJ	REVISED -
PLOT DATE = 3/13/2015	CHECKED - RMG	REVISED -
	DATE - 03/16/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS AND PAVEMENT CORES

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 523	SECTION 11-00420-00-CH	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 64
CONTRACT NO. 61B45				
ILLINOIS FED. AID PROJECT				