03-11-11 LETTING ITEM 008

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 63547		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR
PROPOSED FEDERAL–AID HIGHWAY

FAP 336 (RANDALL ROAD)
AT BOLCUM ROAD
SECTION 04–00325–00–TL
PROJECT NO: CMF–0336(045)
INTERSECTION IMPROVEMENT
KANE COUNTY
C–91–376–06

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

RANDALL ROAD
FUNCTIONAL CLASSIFICATION: SRA (URBAN MAJOR ARTERIAL)
DESIGN SPEED = 50 MPH
POSTED SPEED = 50 MPH

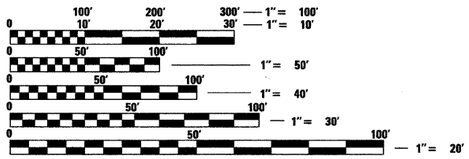
BOLCUM ROAD
FUNCTIONAL CLASSIFICATION: URBAN MINOR ARTERIAL
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH

TRAFFIC DATA

RANDALL ROAD
2004 ADT = 29860
2030 ADT = 42000

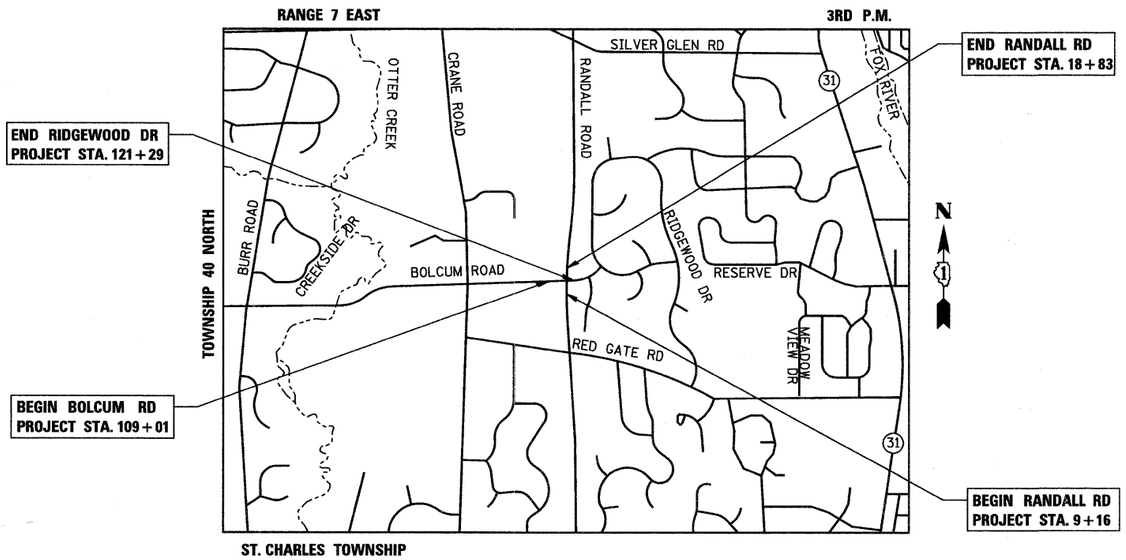
BOLCUM ROAD
2005 ADT = 3140
2030 ADT = 9000

PROJECT LOCATED IN
ST. CHARLES TOWNSHIP



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



LOCATION MAP
1" = 1,500'

GROSS & NET LENGTH OF PROJECT (RANDALL ROAD) = 967 FT (0.18 MI.)
GROSS & NET LENGTH OF PROJECT (BOLCUM ROAD) = 1228 FT (0.23 MI.)
TOTAL PROJECT GROSS & NET LENGTH = 2,195 FT (0.41 MI.)

LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 12 – 17 2010
COUNTY OF KANE, COUNTY ENGINEER

PASSED Dec 28 2010
Christopher Hoet
DISTRICT 1 ENGINEER OF LOCAL ROAD & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW December 29, 2010
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CARL L. GUTOWSKI
062-057132
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS

DATE: 12/17/2010
SEAL EXPIRES: 11/30/2011

Ciorba Group, Inc.

DESIGN FIRM
REGISTRATION NUMBER
184-001016

CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 :: (773) 775-4009

PLANS PREPARED BY: CIORBA GROUP

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE. P.E. (847) 705–4006 SCHAUMBURG, IL

CONTRACT NO. 63547

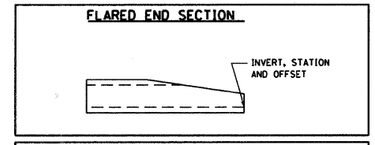
INDEX OF SHEETS

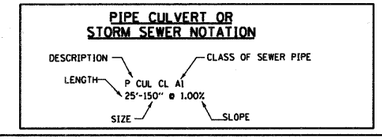
LIST OF HIGHWAY STANDARDS

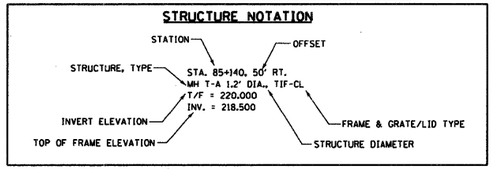
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN, TYPE A
604001-03	FRAME AND LIDS, TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-02	OUTLET FOR CONCRETE CURB AND GUTTER TYPE B-6.24
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24'' FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, 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
701422-03	LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH
701426-04	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS >= 45 MPH
701701-07	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877011-04	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-08	CONCRETE FOUNDATION DETAILS

LEGEND

- LIGHT POLE
- POWER POLE
- GUY WIRE
- FIRE HYDRANT
- WATER SERVICE BOX
- WATER VALVE
- WATER VALVE & VAULT
- GAS VALVE
- GAS VAULT
- EXISTING INLET
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- EXISTING STORM MANHOLE
- PROPOSED STORM MANHOLE
- SANITARY MANHOLE
- DECIDUOUS TREE
- DECIDUOUS BUSH (< 5' DIA.)
- DECIDUOUS BUSH (≥ 5' DIA.)
- CONIFEROUS TREE
- CONIFEROUS BUSH (< 5' DIA.)
- CONIFEROUS BUSH (≥ 5' DIA.)
- BUSH LINE
- —E— OVERHEAD ELECTRIC
- —ETC— OVERHEAD ELECTRIC, TELEPHONE & CABLE TV
- --E-- UNDERGROUND ELECTRIC
- --T-- UNDERGROUND TELEPHONE
- —G— GAS LINE
- —x— FENCE LINE
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- SANITARY SEWER
- —W— WATER MAIN
- --W-- WATER MAIN (ABANDONED)







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PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

INDEX OF SHEETS, LEGEND AND HIGHWAY STANDARDS

SCALE: 1'' = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	2
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FILE NAME = n:\proj\3383\design\Misc_Sheets\3383-indexandhwstand01.dgn

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2007 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED JANUARY 1, 2011; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", FIFTH EDITION; THE DETAILS IN THE PLANS; AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

2. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

3. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.

UTILITIES

4. THE CONTRACTOR SHALL COOPERATE WITH THE CITY OF ST. CHARLES AND KANE COUNTY IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE CITY OR COUNTY WITHIN THE DURATION OF THE CONTRACT.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AND PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

6. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORD INFORMATION, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE ARRANGED BY THE UTILITY COMPANY AND SHALL BE IN ACCORDANCE WITH ARTICLES 107.20 AND 107.31.

8. THE CONTRACTOR SHALL NOTIFY THE CITY OF ST. CHARLES PUBLIC WORKS DEPARTMENT AT (630) 377-4405 48 HOURS IN ADVANCE OF ALL WATER MAIN SHUT DOWNS. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS.

STAKING

9. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

10. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN AT POINTS OF CURVE, ETC., ARE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.

11. STRUCTURE OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS; A) FOR STRUCTURES THAT FALL IN THE CURB LINE--TO THE EDGE OF PAVEMENT; B) FOR ALL OTHER STRUCTURES--TO THE CENTER OF THE STRUCTURE.

12. ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE CENTERLINE AS SHOWN ON THE PLANS.

SEWERS AND WATER MAINS

13. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT. ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

15. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY EXISTING DRAINAGE FACILITIES THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN HE COST OF THE CONTRACT.

16. THE COST OF INTERCONNECTIONS BETWEEN THE PROPOSED AND EXISTING SEWER SYSTEMS SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES OF THE ITEMS BEING CONNECTED.

17. ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR ANY MANHOLE, CATCH BASIN, INLET OR VALVE VAULT, SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS; FOR STORM SEWER STRUCTURES--"STORM". FOR SANITARY SEWER STRUCTURES--"SANITARY". FOR WATER SYSTEM STRUCTURES --"WATER". ANY ADDITIONAL COST FOR THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE FRAME AND CLOSED LID PROVIDED.

18. FRAME ELEVATIONS GIVEN ON ALL THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS SLOPE OF THE AREA IN WHICH THEY ARE LOCATED.

SIGNS

19. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR AND ENGINEER SHALL INVENTORY THE LOCATION, SIZE, TYPE AND CONDITION OF ALL EXISTING SIGNS. ANY SIGN DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH ARTICLE 107.25.

20. ALL SIGNS SHALL BE ERECTED IN STRICT CONFORMANCE WITH SECTION 720 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND BY STATE PRE-QUALIFIED CONTRACTOR PERSONNEL, SUCH AS A SUB CONTRACTOR THAT SPECIALIZES IN TRAFFIC CONTROL AND SIGN PLACEMENT. TO INSURE THIS OPERATION IS PERFORMED CORRECTLY THERE WILL BE A WALK THRU ON THE JOB WITH THE ENGINEER AND AS PART OF THE OVERALL PUNCH LIST.

21. ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY ARTICLE 107.25 AND THE FOLLOWING REQUIREMENTS

    1. SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.

    2. ALL EXISTING SIGNS SHALL BE REMOVED BY KANE COUNTY. CONTRACTOR SHALL NOTIFY RAY JOHNSON AT 630-406-7356 A MINIMUM OF 72 HOURS PRIOR.

MISCELLANEOUS

22. THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET ACCESS, EXISTING DRIVEWAY ACCESS, AND PEDESTRIAN ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT, UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE ITEM "AGGREGATE FOR TEMPORARY ACCESS".

23. SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

24. AT ALL BUTT JOINT LOCATIONS, THE EXISTING SURFACE SHALL BE CUT TO A MINIMUM THICKNESS OF TWO (2) INCHES AS INDICATED ON THE PLANS.

25. THE THICKNESSES OF HMA MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE HMA MIXTURES ARE TO BE PLACED.

26. PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE AND TOP OF CURB, P.C.C. SIDEWALK, AND AS DIRECTED BY THE ENGINEER.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FRESH CONCRETE FROM DAMAGE AND VANDALISM. ANY DAMAGED OR VANDALIZED CONCRETE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

28. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO VERIFY EXISTING DIMENSIONS OR CONDITIONS.

29. EXISTING PAVEMENT THICKNESSES SHOWN ON THE PLANS ARE APPROXIMATE, BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. ANY ADDITIONAL COSTS REQUIRED BY THE CONTRACTOR DUE TO THE THICKNESSES OTHER THAN THOSE SHOWN ON THE PLANS WILL BE INCLUDED IN THE COST OF THE CONTRACT.

30. WHERE PROPOSED WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

31. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.

32. ALL TYPE I AND II BARRICADES SHALL BE WEIGHTED DOWN WITH TWO SANDBAGS EACH (ONE WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL). ALL TYPE III BARRICADES SHALL REQUIRE FOUR SANDBAGS EACH.

33. TYPE "A" CURB RAMPS SHALL BE INSTALLED AT ALL INTERSECTING STREETS AND DRIVEWAYS PER CURRENT IDOT STANDARDS AT LOCATIONS WHERE SIDEWALK IS SHOWN ON THE PLAN.

34. THE CONTRACTOR SHALL PREPARE THE SUBGRADE IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS PRIOR TO THE REMOVAL OF ANY UNSTABLE MATERIALS.

35. ALL DISTURBED AREAS WITHIN THE PROJECT THAT ARE NOT OTHERWISE SURFACED SHALL BE CLEARED, LAYERED WITH TOPSOIL, AND SEEDED OR SODDED AS SHOWN IN THE PLANS. LIMITS SHOWN ON THE PLANS ARE THE MAXIMUM PAY WIDTHS FOR PAYMENT PURPOSES.

36. USE A FERTILIZER WITH AN ANALYSIS OF 1:1:1 RATIO AT THE FOLLOWING RATE PER ACRE:

	SEEDING	SODDING
NITROGEN FERTILIZER NUTRIENT	90 LBS.	60 LBS.
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS.	60 LBS.
POTASSIUM FERTILIZER NUTRIENT	90 LBS.	60 LBS.

37. SUPPLEMENTAL WATERING SHALL BE PERFORMED WHEN DIRECTED BY THE ENGINEER AT A RATE OF 3 GAL PER SQ. YD.

38. THE CONTRACTOR SHALL DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER EXCAVATED MATERIAL NOT FOR SALVAGE AT HIS EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE EACH DAY. NO ADDITIONAL PAYMENT WILL BE MADE FOR HAULING OR TRUCKING TO DISPOSAL LOCATIONS.

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PLOT SCALE = 1.0000 ' / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

GENERAL NOTES

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	3
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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SUMMARY OF QUANTITIES			TOTAL QUANTITY
CODE NO.	DESCRIPTION	UNIT	CONSTRUCTION CODE - 0021
20101100	TREE TRUNK PROTECTION	EACH	11
20200100	EARTH EXCAVATION	CU YD	649
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1699
20400800	FURNISHED EXCAVATION	CU YD	1077
20800150	TRENCH BACKFILL	CU YD	4
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	140
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	7610
25000210	SEEDING, CLASS 2A	ACRE	2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180
25100630	EROSION CONTROL BLANKET	SQ YD	7610
25200200	SUPPLEMENTAL WATERING	UNIT	150
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1600
28000305	TEMPORARY DITCH CHECKS	FOOT	160
28000400	PERIMETER EROSION BARRIER	FOOT	2620
28000500	INLET AND PIPE PROTECTION	EACH	7
28000510	INLET FILTERS	EACH	3
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	4445
35400200	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 7"	SQ YD	4
35400400	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9"	SQ YD	3
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	240
35600704	HOT-MIX ASPHALT BASE COURSE WIDENING, 7"	SQ YD	900
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	1170
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	90
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3620
40600300	AGGREGATE (PRIME COAT)	TON	52
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2
40600825	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50	TON	550
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	75
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	165
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	150
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	30
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	375
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	835
42001300	PROTECTIVE COAT	SQ YD	105
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	500
42400800	DETECTABLE WARNINGS	SQ FT	144
44000100	PAVEMENT REMOVAL	SQ YD	1060
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	3540
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	7310
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	240
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	43
44000600	SIDEWALK REMOVAL	SQ FT	470
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	275
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	275
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	2230
50104400	CONCRETE HEADWALL REMOVAL	EACH	5
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	40
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	30
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	4
54248510	CONCRETE COLLAR	CU YD	3
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	6
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	340
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	30
67100100	MOBILIZATION	L SUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3

SUMMARY OF QUANTITIES			TOTAL QUANTITY
CODE NO.	DESCRIPTION	UNIT	CONSTRUCTION CODE - 0021
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1085
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	145
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	26000
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	510
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	13000
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	210
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	7600
72000100	SIGN PANEL - TYPE 1	SQ FT	19
78100300	REPLACEMENT REFLECTOR	EACH	55
78300100	PAVEMENT MARKING REMOVAL	SQ FT	4540
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	800
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	60
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	60
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	25
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	175
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	330
81400100	HANDHOLE	EACH	6
81400200	HEAVY-DUTY HANDHOLE	EACH	2
81400300	DOUBLE HANDHOLE	EACH	1
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1900
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	945
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 2C	FOOT	400
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	1150
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 5C	FOOT	2700
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 7C	FOOT	550
87301505	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 1 PAIR	FOOT	350
87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1100
87301525	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 6 PAIR	FOOT	450
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C	FOOT	200
87500600	TRAFFIC SIGNAL POST, 10 FT.	EACH	2
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	2
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	1
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	2
87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
87703010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16
88600100	DETECTOR LOOP, TYPE I	FOOT	1350
88700200	LIGHT DETECTOR	EACH	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	4
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	200
X0324256	FIBER OPTIC CABLE SPLICE	EACH	1
X0326266	ETHERNET SWITCH	EACH	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
• X7800605	URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	440
• X7800610	URETHANE PAVEMENT MARKING - LINE 4"	FOOT	9680

SUMMARY OF QUANTITIES			TOTAL QUANTITY
	CODE NO.	DESCRIPTION	UNIT	CONSTRUCTION CODE - 0021
•	X7800630	URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1940
•	X7800650	URETHANE PAVEMENT MARKING - LINE 12"	FOOT	540
•	X7800680	URETHANE PAVEMENT MARKING - LINE 24"	FOOT	160
*	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	160
	X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
	XX008494	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 20 3/C	FOOT	700
	X8900030	REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT	EACH	1
	XX003338	TEST HOLE	EACH	8
*	XX007092	RECESSED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	185
	XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
	XX007953	NETWORK CONFIGURATION	L SUM	1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52
	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
	81301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	750
	Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	45
	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
Δ	Z0076600	TRAINEES	HOUR	500

• DENOTES SPECIALITY ITEM
Δ 0042

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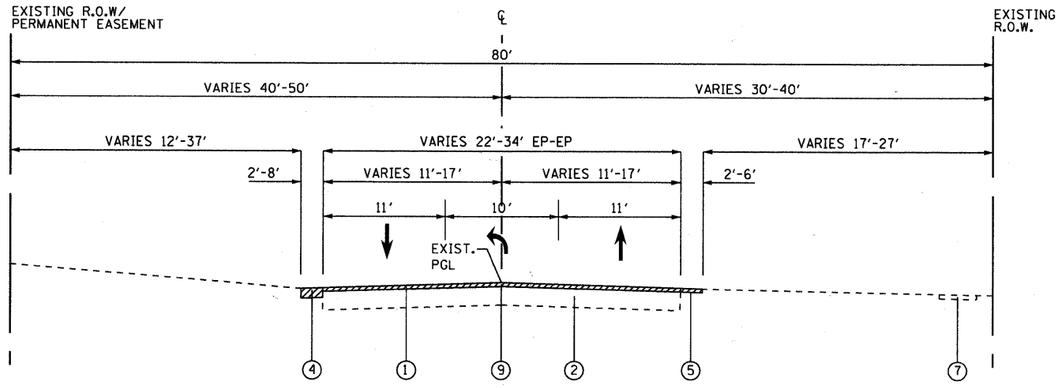
PLOT DATE = 1/4/2011	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

SUMMARY OF QUANTITIES

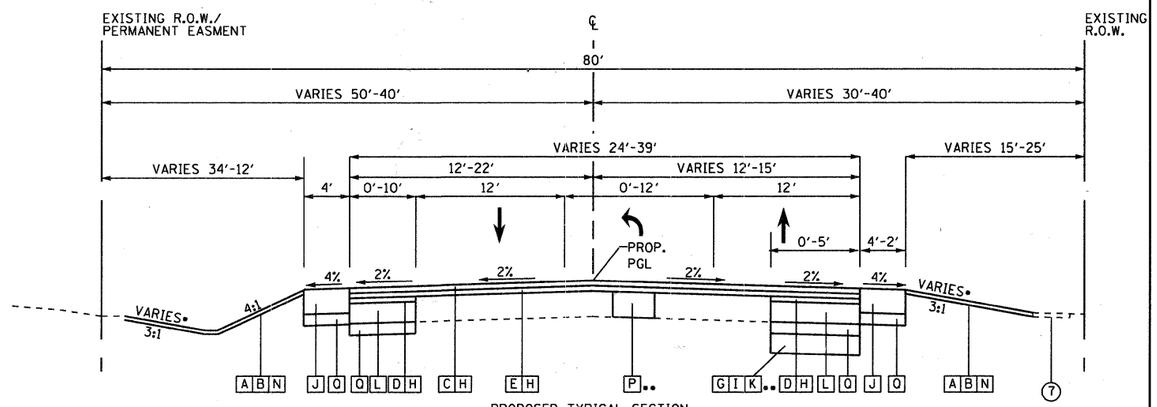
SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	4
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



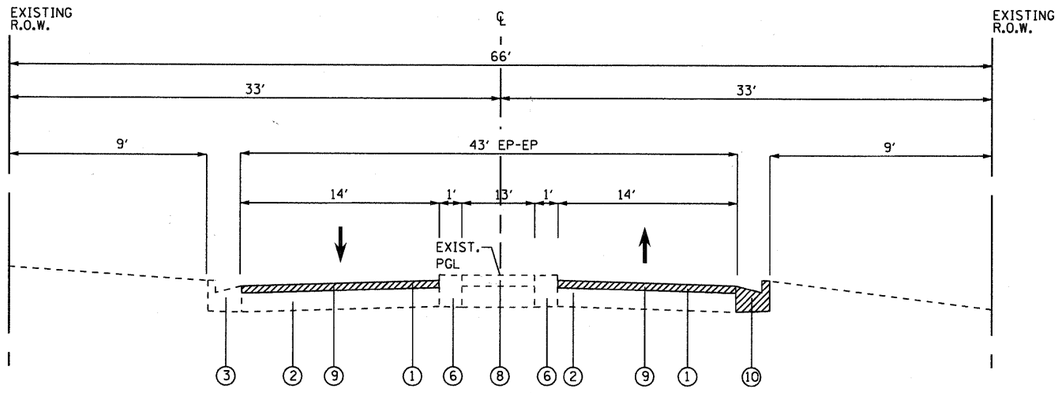
EXISTING TYPICAL SECTION
BOLCUM ROAD
(WEST OF RANDALL ROAD)

STA. 109+01 TO STA. 120+00



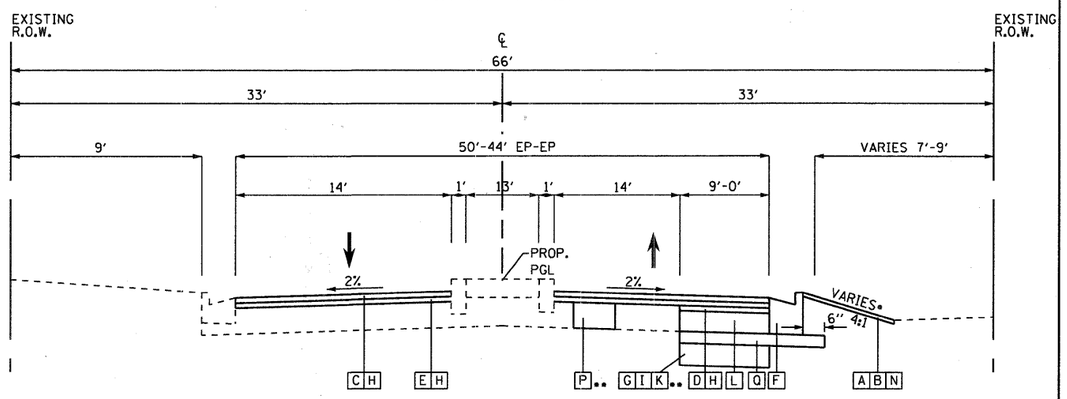
PROPOSED TYPICAL SECTION
BOLCUM ROAD
(WEST OF RANDALL ROAD)

STA. 109+01 TO STA. 120+00



EXISTING TYPICAL SECTION
RIDGEWOOD DRIVE
(EAST OF RANDALL ROAD)

STA. 120+00 TO STA. 121+29



PROPOSED TYPICAL SECTION
RIDGEWOOD DRIVE
(EAST OF RANDALL ROAD)

STA. 120+00 TO STA. 121+29

EXISTING CONDITIONS

1. EXISTING HOT-MIX ASPHALT SURFACE, 4"-6"
2. EXISTING AGGREGATE BASE, 10"-12"
3. EXISTING B-6.12 CONCRETE CURB AND GUTTER
4. EXISTING HOT-MIX ASPHALT SHOULDER, 8" (TO BE PAID FOR AS PAVEMENT REMOVAL)
5. EXISTING AGGREGATE SHOULDER (TO BE PAID FOR AS EARTH EXCAVATION)
6. EXISTING TYPE B CONCRETE CURB
7. EXISTING HOT-MIX ASPHALT BIKE PATH
8. EXISTING LANDSCAPED MEDIAN
9. HMA SURFACE REMOVAL 2 1/4"
10. EXISTING CONCRETE CURB AND GUTTER TO BE REMOVED

PROPOSED CONDITIONS

- [A] SEEDING, CLASS 2A
- [B] TOPSOIL, FURNISH AND PLACE, (4")
- [C] HOT- MIX ASPHALT SURFACE COURSE, MIX "D", N50 (1 1/2 ")
- [D] HOT- MIX ASPHALT BINDER COURSE, IL-19, N50 (2 1/4 ")
- [E] POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 " NOM.
- [F] COMBINATION CONCRETE CURB AND GUTTER, B-6.12
- [G] POROUS GRANULAR EMBANKMENT, SUBGRADE
- [H] BITUMINOUS MATERIAL (PRIME COAT) & AGGREGATE (PRIME COAT)
- [I] GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- [J] HOT-MIX ASPHALT SHOULDER, 8". TOP 2" SHALL BE HOT-MIX ASPHALT CONCRETE SURFACE INCIDENTAL TO HOT-MIX ASPHALT SHOULDER.
- [K] REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- [L] HOT- MIX ASPHALT BASE COURSE WIDENING, 7"
- [N] EROSION CONTROL BLANKET
- [P] CLASS D PATCH, TYPE II-III, 10" (AT LOCATIONS DIRECTED BY THE ENGINEER)
- [Q] SUBBASE GRANULAR MATERIAL, TYPE B 4"

NOTES

- • SEE CROSS SECTIONS FOR PARKWAY ELEVATIONS AND SLOPES.
- •• AT LOCATIONS IN THE FIELD DETERMINED BY THE ENGINEER CONTRACTOR SHALL MILL BEFORE PATCHING

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KANE COUNTY DIVISION OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	5
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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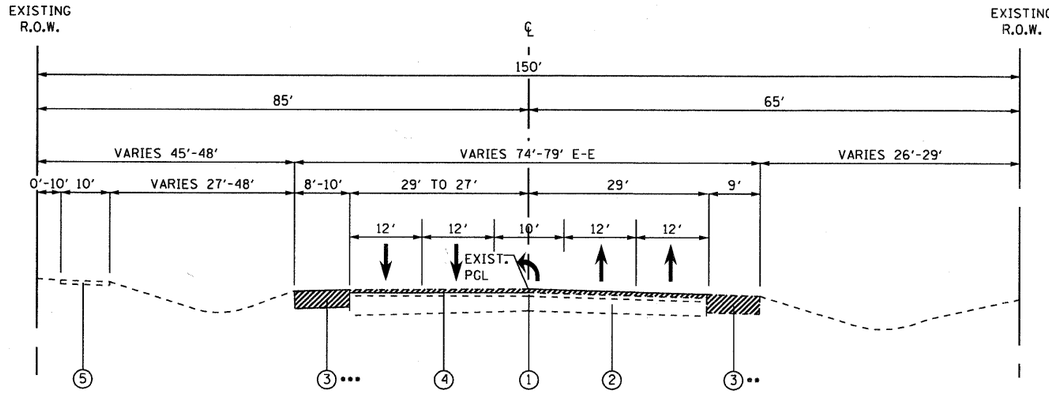
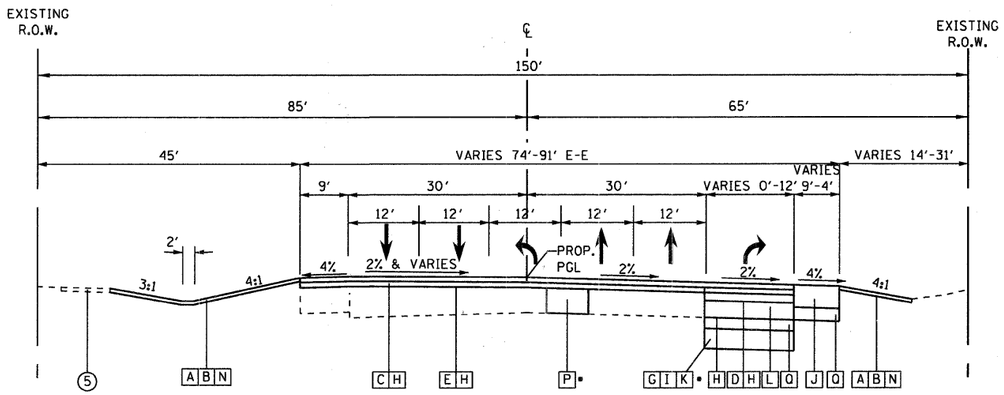
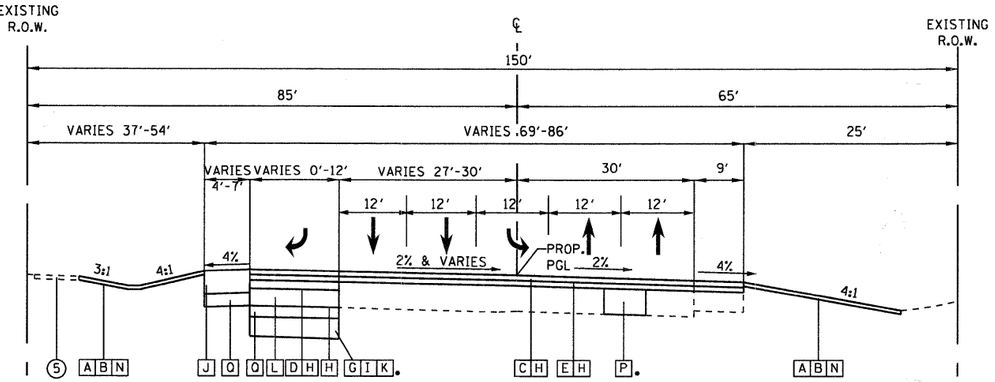


EXISTING TYPICAL SECTION
RANDALL ROAD
STA. 9+16 TO STA. 18+83



PROPOSED TYPICAL SECTION
RANDALL ROAD
STA. 9+16 TO STA. 14+00



PROPOSED TYPICAL SECTION
RANDALL ROAD
STA. 14+00 TO STA. 18+83

EXISTING CONDITIONS

1. EXISTING HOT-MIX ASPHALT SURFACE, 4"-6"
2. EXISTING HOT-MIX ASPHALT BASE, 10"
3. EXISTING HOT-MIX ASPHALT SHOULDER, 8" (TO BE PAID FOR AS PAVEMENT REMOVAL)
4. HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
5. EXISTING HOT-MIX ASPHALT BIKE PATH

PROPOSED CONDITIONS

- A SEEDING, CLASS 2A
- B TOPSOIL, FURNISH AND PLACE, (4")
- C POLYMERIZED HOT- MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- D POLYMERIZED HOT- MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- E POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- F AGGREGATE SUBGRADE, 12"
- G POROUS GRANULAR EMBANKMENT, SUBGRADE•
- H BITUMINOUS MATERIAL (PRIME COAT) & AGGREGATE (PRIME COAT)
- I GEOTECHNICAL FABRIC FOR GROUND STABILIZATION•
- J HOT-MIX ASPHALT SHOULDER, 8"
- K REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- L HOT- MIX ASPHALT BASE COURSE WIDENING, 9"
- N EROSION CONTROL BLANKET
- P CLASS D PATCH, TYPE II-III, 10" (AT LOCATIONS AS DIRECTED BY THE ENGINEER)
- Q SUBBASE GRANULAR MATERIAL, TYPE B 4"

NOTES

- • AT LOCATIONS IN THE FIELD DETERMINED BY THE ENGINEER CONTRACTOR SHALL MILL BEFORE PATCHING
- •• REMOVAL FROM STA. 9+16 TO STA. 14+00
- ••• REMOVAL FROM STA. 14+00 TO STA 18+84

MIXTURE DESIGN TABLE

OPERATION	LOCATION	MIXTURE TYPE	AIR VOIDS @ Ndes.
ROADWAY RESURFACING	BOLCUM/ RIDGEWOOD	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL-9.5mm) 1 1/2" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75mm, N50, 3/4"	4% @ 50 GYR. 4% @ 50 GYR.
	RANDALL	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL-9.5mm) 1 3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75mm, N50, 3/4"	4% @ 90 GYR. 4% @ 50 GYR.
PAVEMENT WIDENING	BOLCUM/ RIDGEWOOD	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL-9.5mm) 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0mm, N50, 2 1/4" HOT-MIX ASPHALT BASE COURSE WIDENING, 7" (HMA BINDER IL-19.0mm)	4% @ 50 GYR. 4% @ 50 GYR. 4% @ 50 GYR. (IN 3 LIFTS)
	RANDALL	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL-9.5mm 1 3/4" POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0mm, N90, 2 1/4" HOT-MIX ASPHALT BASE COURSE WIDENING, 9" (HMA BINDER IL-19.0mm)	4% @ 90 GYR. 4% @ 90 GYR. 4% @ 90 GYR. (IN 3 LIFTS)
SHOULDERS	ALL	HOT-MIX ASPHALT SHOULDER (HOT-MIX ASPHALT BINDER IL-19.0mm), 8"	2% @ 30 GYR. (IN 3 LIFTS)
PAVEMENT PATCHING	ALL	CLASS D PATCHES (HOT-MIX ASPHALT BINDER IL-19.0mm), 10"	4% @ 70 GYR. (IN 3 LIFTS)
DRIVEWAY PAVEMENT	ALL	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, (IL-9.5mm), 2" HOT-MIX ASPHALT BASE COURSE (HOT-MIX ASPHALT BINDER IL-19.0mm), 8"	4% @ 50 GYR. 4% @ 50 GYR. (IN 3 LIFTS)

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TPYE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY THE DISTRICT ONE SPECIAL PROVISION. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISION

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KANE COUNTY DIVISION OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	6
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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STATION			20200100		20201200		
			EARTH EXCAVATION	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
LINE "RANDALL"			(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
09+16	TO	09+50	10	9	17	15	-6
09+50	TO	10+00	14	12	24	31	-19
10+00	TO	10+50	13	11	49	78	-67
10+50	TO	11+00	20	17	54	85	-68
11+00	TO	11+50	27	23	34	52	-29
11+50	TO	12+00	26	22	38	41	-20
12+00	TO	12+50	24	20	42	47	-27
12+50	TO	13+00	24	20	51	43	-23
13+00	TO	13+50	22	18	42	14	5
13+50	TO	14+00	9	7	13	4	3
14+00	TO	14+50	6	6	16	22	-16
14+50	TO	15+00	16	14	29	35	-21
15+00	TO	15+50	18	15	29	29	-14
15+50	TO	16+00	14	12	33	38	-26
16+00	TO	16+50	14	12	40	47	-35
16+50	TO	17+00	17	14	35	37	-23
17+00	TO	17+50	14	12	18	22	-11
17+50	TO	18+00	14	12	6	10	2
18+00	TO	18+50	15	13	2	0	13
18+50	TO	18+83	9	8	6	0	8
18+83	TO	19+00	3	2	2	0	2
TOTALS			328	279	580	652	-373

STATION			20200100		20201200		
			EARTH EXCAVATION	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
LINE "BOLCUM"			(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
109+01	TO	109+50	6	5	18	12	-7
109+50	TO	110+00	10	8	49	35	-27
110+00	TO	110+50	8	7	57	41	-34
110+50	TO	111+00	8	7	49	32	-25
111+00	TO	111+50	12	10	52	43	-33
111+50	TO	112+00	19	16	64	50	-34
112+00	TO	112+50	19	16	68	42	-26
112+50	TO	113+00	19	16	73	47	-31
113+00	TO	113+50	20	17	77	49	-32
113+50	TO	114+00	17	14	74	51	-37
114+00	TO	114+50	16	13	77	62	-49
114+50	TO	115+00	15	13	76	70	-57
115+00	TO	115+50	9	8	73	66	-58
115+50	TO	116+00	14	12	46	41	-29
116+00	TO	116+50	20	17	25	13	4
116+50	TO	117+00	16	13	37	40	-27
117+00	TO	117+50	13	11	43	63	-52
117+50	TO	118+00	11	9	40	59	-50
118+00	TO	118+50	9	8	38	77	-69
118+50	TO	119+00	9	8	35	59	-52
119+00	TO	119+50	28	24	28	17	7
119+50	TO	120+00	0	0	0	0	0
120+00	TO	120+50	0	0	0	0	0
120+50	TO	121+00	18	15	14	3	12
121+00	TO	121+29	5	4	4	3	1
TOTALS			321	273	1,119	977	-704

SUMMARY		
20200100	20400800	20201201
EARTH EXCAVATION	FURNISHED EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
(CU YD)	(CU YD)	(CU YD)
649	1,077	1,699

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PLOT DATE = 12/21/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	7
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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PROP. CURVE RAND-1
PI STA. = 11+08.02
Δ = 4° 55' 18" (RT)
D = 1° 25' 57"
R = 4,000.00'
T = 171.90'
L = 343.60'
E = 3.69'
P.C. STA. = 9+36.12
P.T. STA. = 12+79.72
SE = 2.7%

PROP. CURVE RAND-2
PI STA. = 16+00.18
Δ = 8° 08' 49" (RT)
D = 1° 16' 24"
R = 4,500.00'
T = 320.47'
L = 639.85'
E = 11.40'
P.C. STA. = 12+79.72
P.T. STA. = 19+19.57
SE = 2.2%

PROP. CURVE BOLC-1
PI STA. = 111+59.75
Δ = 10° 33' 41" (LT)
D = 8° 11' 06"
R = 700.00'
T = 64.70'
L = 129.03'
E = 2.98'
P.C. STA. = 110+95.05
P.T. STA. = 112+24.08
SE = NC

PROP. CURVE BOLC-2
PI STA. = 114+84.60
Δ = 32° 34' 28" (LT)
D = 7° 38' 22"
R = 750.00'
T = 219.13'
L = 426.40'
E = 31.36'
P.C. STA. = 112+65.46
P.T. STA. = 116+91.86
SE = NC

CONTROL POINTS

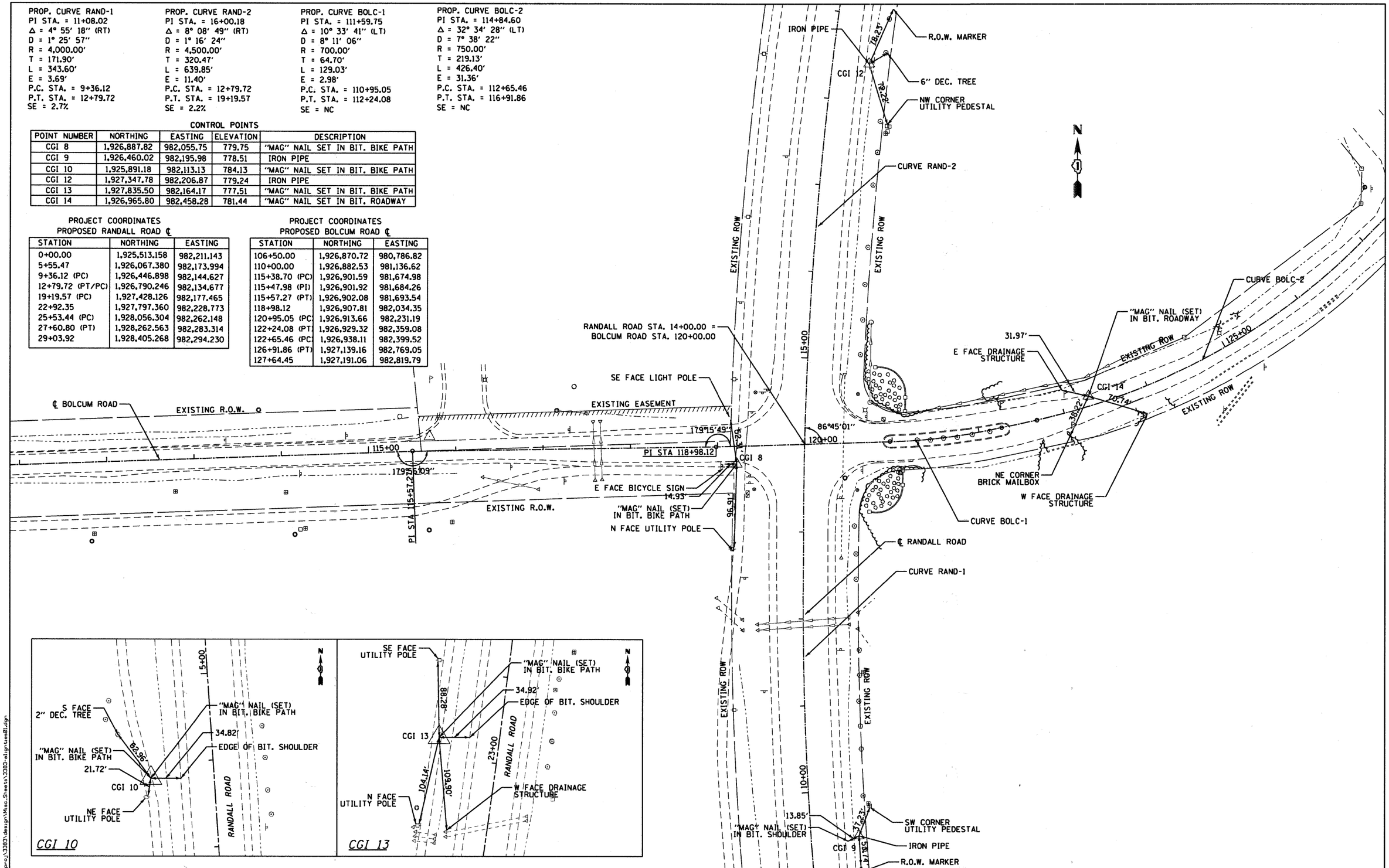
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
CGI 8	1,926,887.82	982,055.75	779.75	"MAG" NAIL SET IN BIT. BIKE PATH
CGI 9	1,926,460.02	982,195.98	778.51	IRON PIPE
CGI 10	1,925,891.18	982,113.13	784.13	"MAG" NAIL SET IN BIT. BIKE PATH
CGI 12	1,927,347.78	982,206.87	779.24	IRON PIPE
CGI 13	1,927,835.50	982,164.17	777.51	"MAG" NAIL SET IN BIT. BIKE PATH
CGI 14	1,926,965.80	982,458.28	781.44	"MAG" NAIL SET IN BIT. ROADWAY

PROJECT COORDINATES
PROPOSED RANDALL ROAD ℄

STATION	NORTHING	EASTING
0+00.00	1,925,513.158	982,211.143
5+55.47	1,926,067.380	982,173.994
9+36.12 (PC)	1,926,446.898	982,144.627
12+79.72 (PT/PC)	1,926,790.246	982,134.677
19+19.57 (PC)	1,927,428.126	982,177.465
22+92.35	1,927,797.360	982,228.773
25+53.44 (PC)	1,928,056.304	982,262.148
27+60.80 (PT)	1,928,262.563	982,283.314
29+03.92	1,928,405.268	982,294.230

PROJECT COORDINATES
PROPOSED BOLCUM ROAD ℄

STATION	NORTHING	EASTING
106+50.00	1,926,870.72	980,786.82
110+00.00	1,926,882.53	981,136.62
115+38.70 (PC)	1,926,901.59	981,674.98
115+47.98 (PI)	1,926,901.92	981,684.26
115+57.27 (PT)	1,926,902.08	981,693.54
118+98.12	1,926,907.81	982,034.35
120+95.05 (PC)	1,926,913.66	982,231.19
122+24.08 (PT)	1,926,929.32	982,359.08
122+65.46 (PC)	1,926,938.11	982,399.52
126+91.86 (PT)	1,927,139.16	982,769.05
127+64.45	1,927,191.06	982,819.79



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CONSULTING ENGINEERS
5607 North Cumberland Avenue, Suite 402
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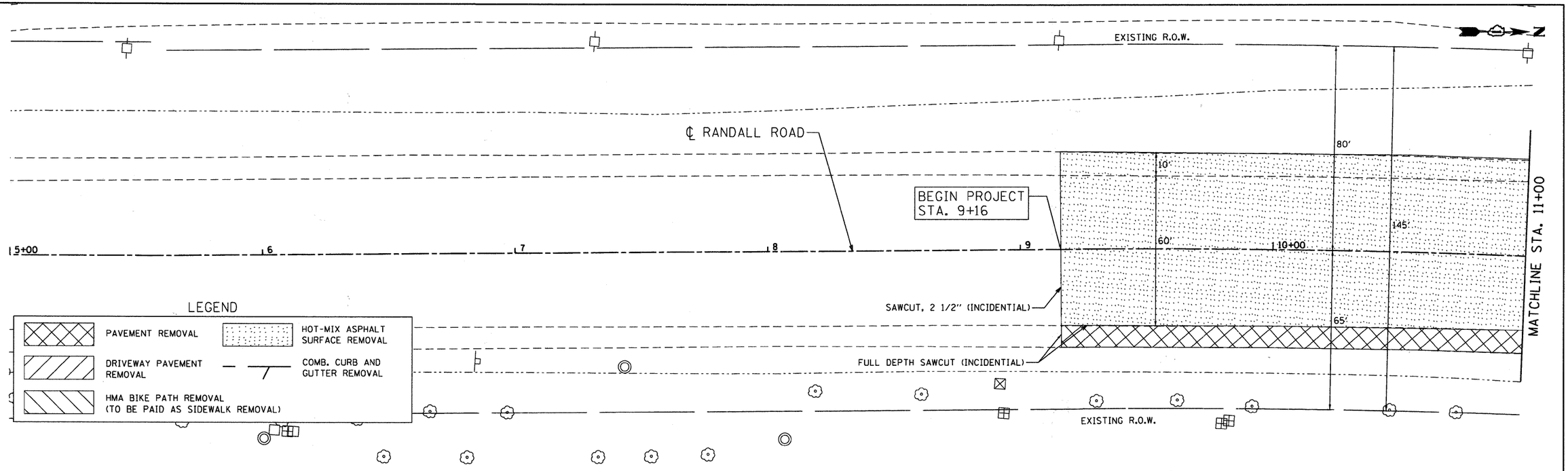
PLOT SCALE = 50.0000 ' / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

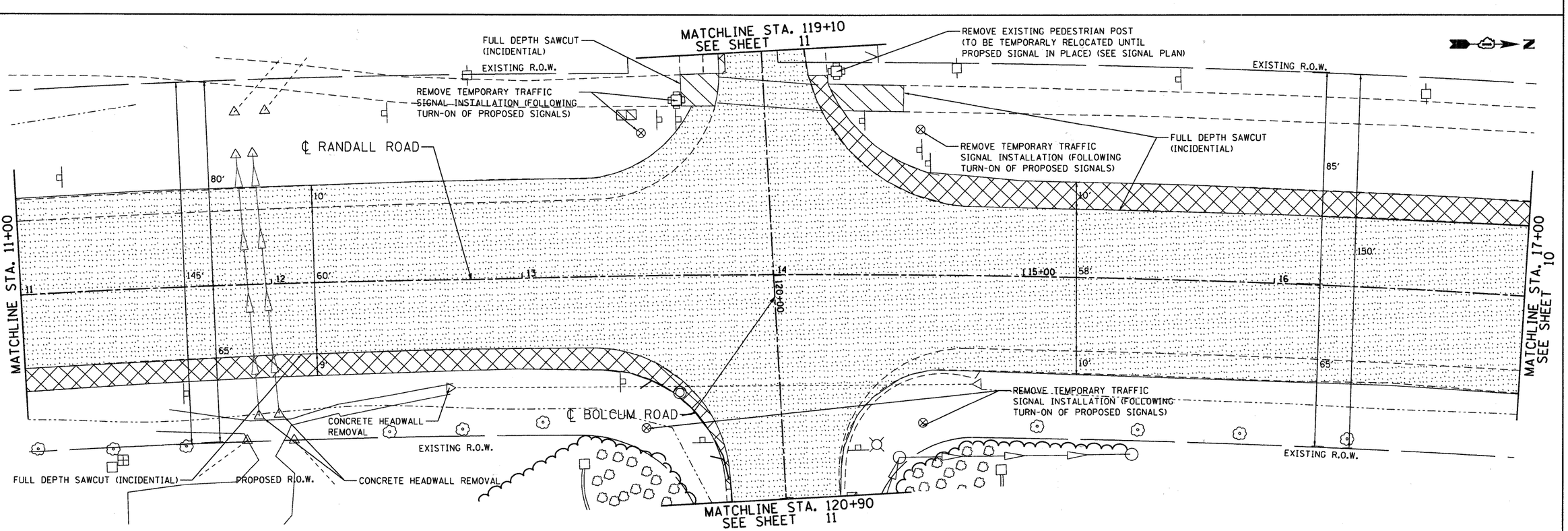
KANE COUNTY DIVISION OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	8
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





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PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

KANE COUNTY DIVISION OF TRANSPORTATION

EXISTING CONDITION AND REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	9
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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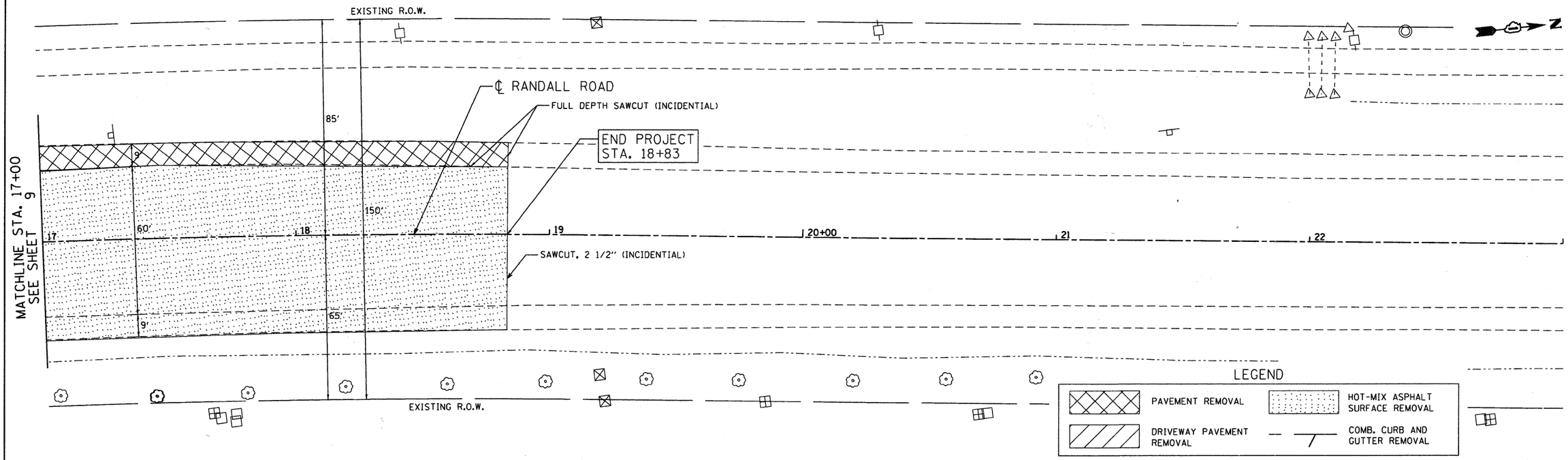

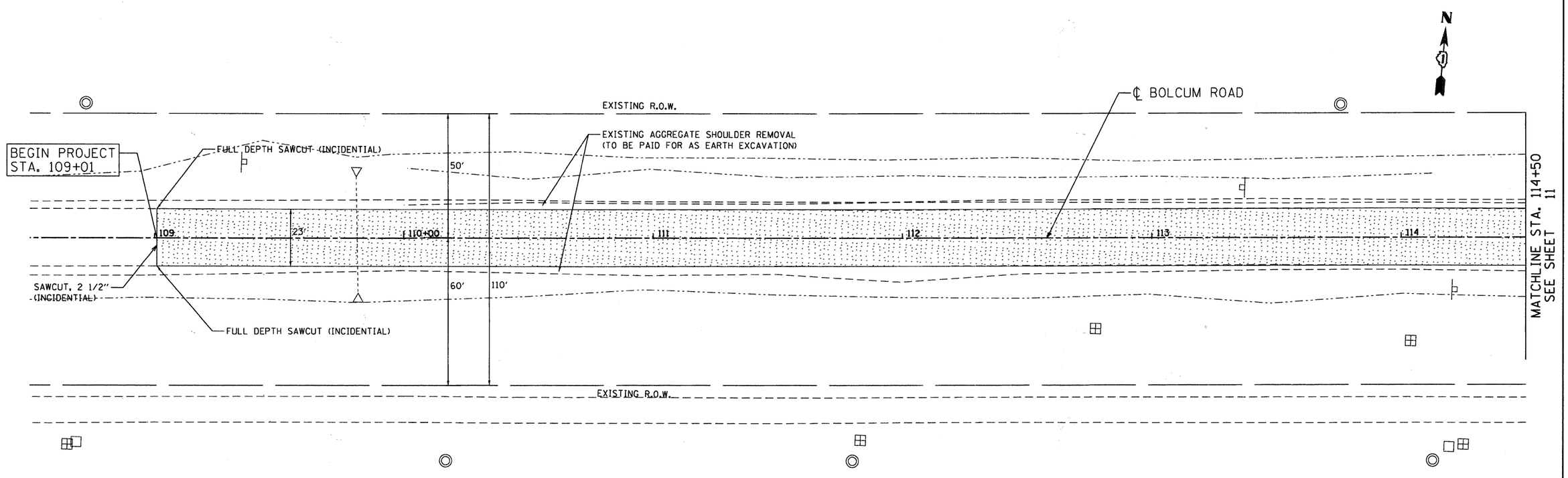

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	DRAWN - EPS	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

EXISTING CONDITION AND REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	10
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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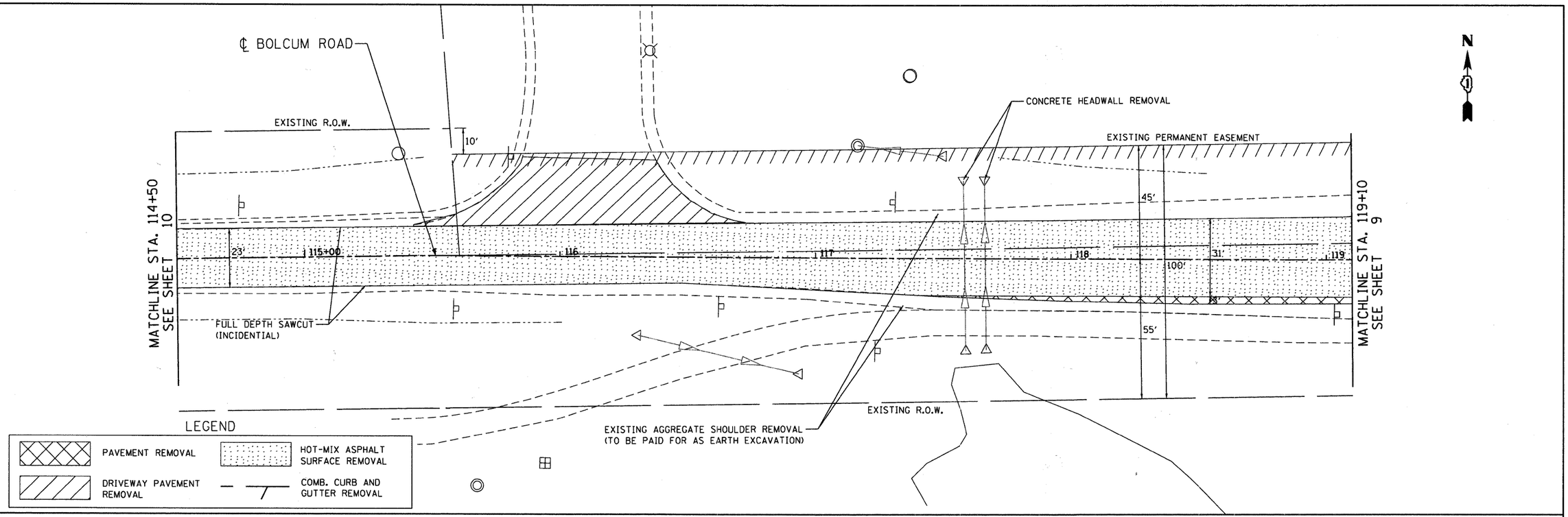

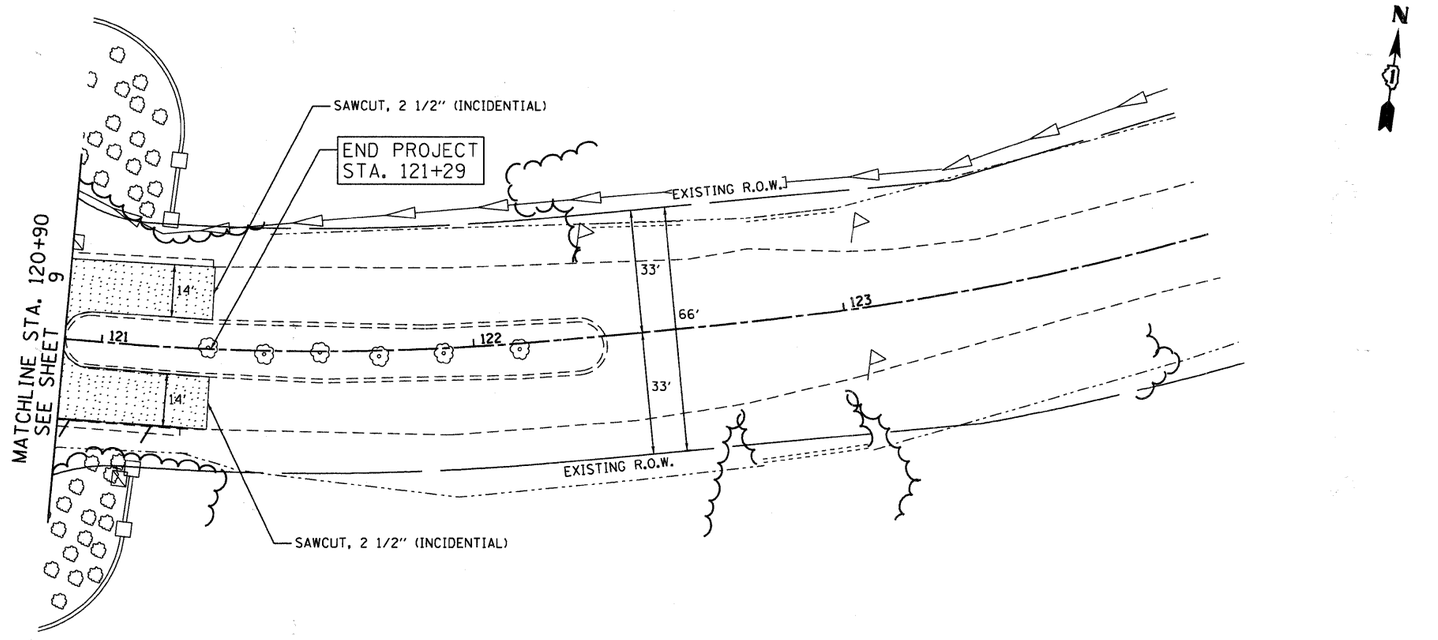

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PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

EXISTING CONDITION AND REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	11
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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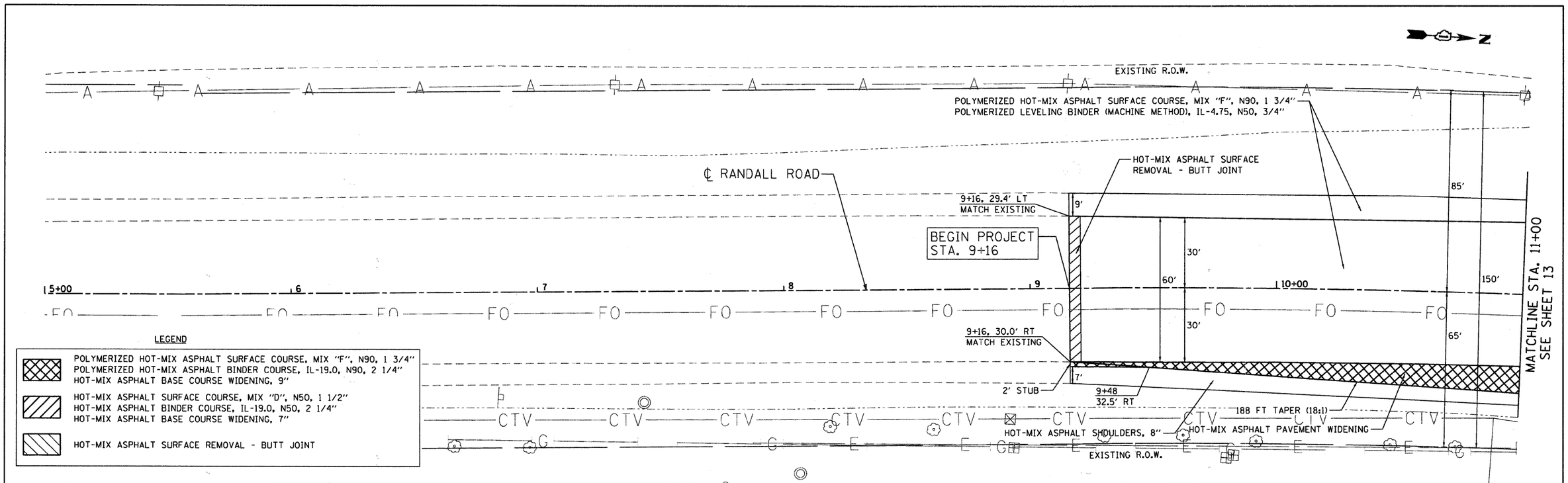

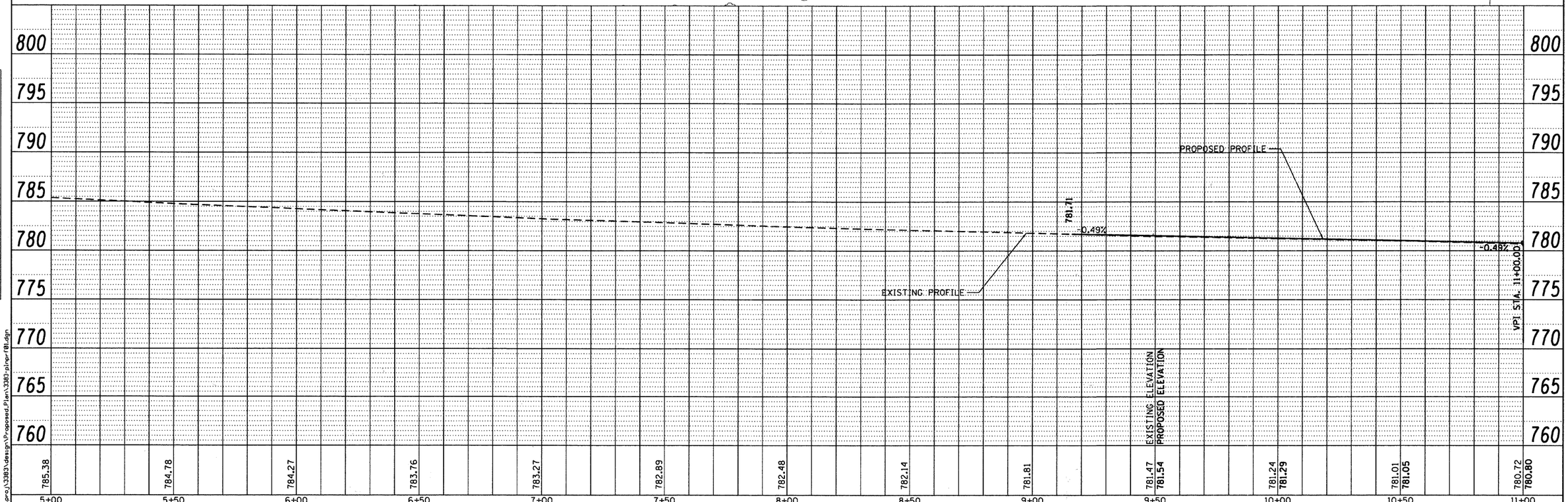

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		DRAWN - EPS	REVISED -	
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - MJL	REVISED -	
	PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

PROPOSED PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	12
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
  POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
  HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
  HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
  HOT-MIX ASPHALT BASE COURSE WIDENING, 7"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

MATCHLINE STA. 11+00
SEE SHEET 12

MATCHLINE STA. 119+10
SEE SHEET 16

MATCHLINE STA. 17+00
SEE SHEET 14

MATCHLINE STA. 120+90
SEE SHEET 17

℄ RANDALL ROAD

℄ BOLCUM ROAD

PCC SIDEWALK, 5" (TYP.)

EXISTING R.O.W.

50' RADIUS

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"

11+36
30.4' LT

13+29
30.8' LT

11+36
41.6' RT

13+29
41.6' RT
ELEV. 778.60

55' RADIUS

PCC SIDEWALK, 5" (TYP.)

CONCRETE COLLAR
(2 @ 1.48 CU YD)

HOT-MIX ASPHALT
PAVEMENT WIDENING

HOT-MIX ASPHALT
SHOULDERS, 8"

CLASS SI CONCRETE (OUTLET) 3 CU YD

COMBINATION CONCRETE CURB AND
GUTTER, TYPE B-6.24

COMBINATION CONCRETE CURB AND
GUTTER, TYPE B-6.12 (TYP.)

TWO CENTERED CURVE
(40'-200'), 10' OFFSET

220 FT TAPER (18:1)

(774.64)

(774.75)

13+82
80.1' RT
ELEV. 778.60

14+27
84.6' RT

EXISTING PERMANENT EASEMENT

DETECTABLE WARNING (TYP.)
EXISTING R.O.W.

PCC SIDEWALK, 5" (TYP.)

TWO-CENTERED CURVE
(55'-250'), 16' OFFSET

14+92
41.9' LT

HOT-MIX ASPHALT PAVEMENT WIDENING

HOT-MIX ASPHALT SHOULDERS, 8"

16+65
41.9' LT

14+78
29.2' LT

16+48
29.8' LT

(776.31)

EXISTING 50' RADIUS

EXISTING R.O.W.

EXISTING COMBINATION CONCRETE CURB
AND GUTTER, TYPE B-6.12 (TYP.)

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"

⚠1 STA. 12+72, 43' RT
CB, TYPE A, 4' DIA.
TYPE 1 F, OL, SPECIAL
RIM = 778.88
INV = 775.58 (N)
INV = 775.58 (SE)

⚠2 STA. 12+40, 57' RT
CONC. FLARED END SECTION, 24" DIA.
INV = 775.49

⚠3 STA. 11+93, 58' RT
CONC. FLARED END SECTION, 36" DIA.
INV = 774.24

⚠4 STA. 12+01, 59' RT
CONC. FLARED END SECTION, 36" DIA.
INV = 774.34

① P CUL CL A1
24"-37' @ 0.24%
TBF = 3.3 CY

② P CUL CL A1
36"-8' @ 0.50%

③ P CUL CL A1
36"-8' @ 0.60%

PLAN
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DRAWN BY
CHECKED
QUANTITIES CHECKED
CADD FILE NAME
NOTE BOOK
NO.
DATE / BY

PROFILE
SURVEYED
PLOTTED
DRAWN BY
CHECKED
QUANTITIES CHECKED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
DATE / BY

PROPOSED PROFILE

EXISTING PROFILE

-0.30%

-0.30%

-0.03%

-0.03%

+0.14%

VPI STA. 12+50.00
ELEVATION 780.35

VPI STA. 14+50.00
ELEVATION 780.30

ELEVATION 780.80

785 780 775 770 765 760 755 750

11+00	11+50	12+00	12+50	13+00	13+50	14+00	14+50	15+00	15+50	16+00	16+50	17+00
780.72 / 780.80	780.57 / 780.65	780.39 / 780.50	780.35 / 780.35	780.33 / 780.34	780.31 / 780.33	780.25 / 780.31	780.26 / 780.30	780.29 / 780.37	780.38 / 780.44	780.39 / 780.51	780.53 / 780.59	780.69 / 780.66

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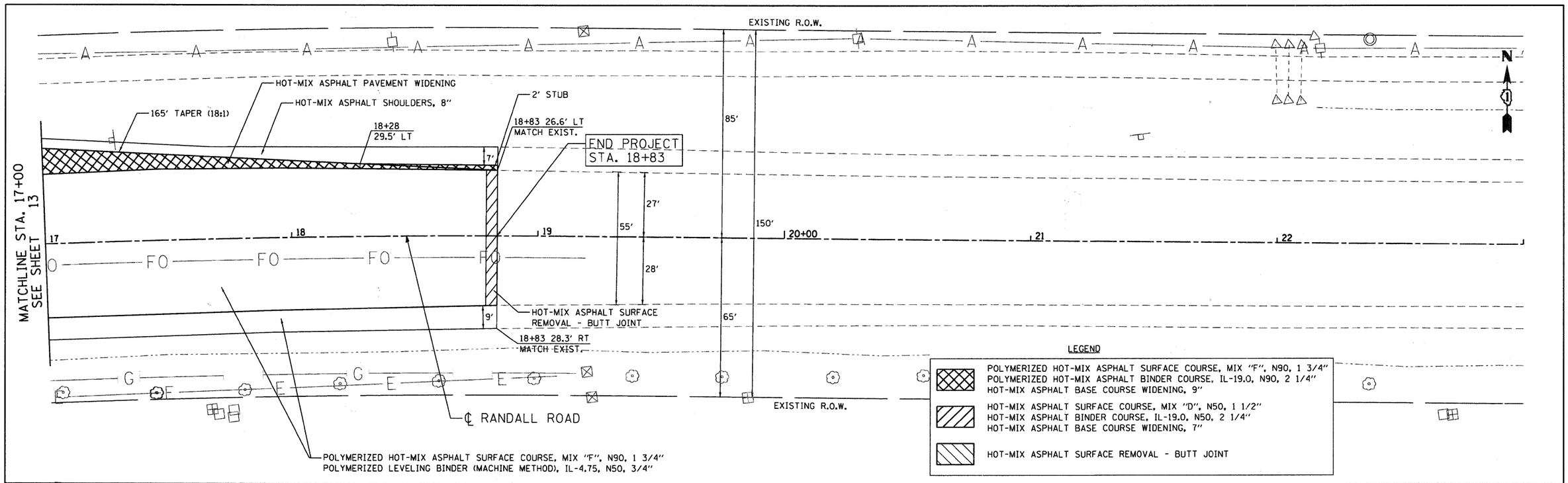
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

KANE COUNTY DIVISION OF TRANSPORTATION

PROPOSED PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	13
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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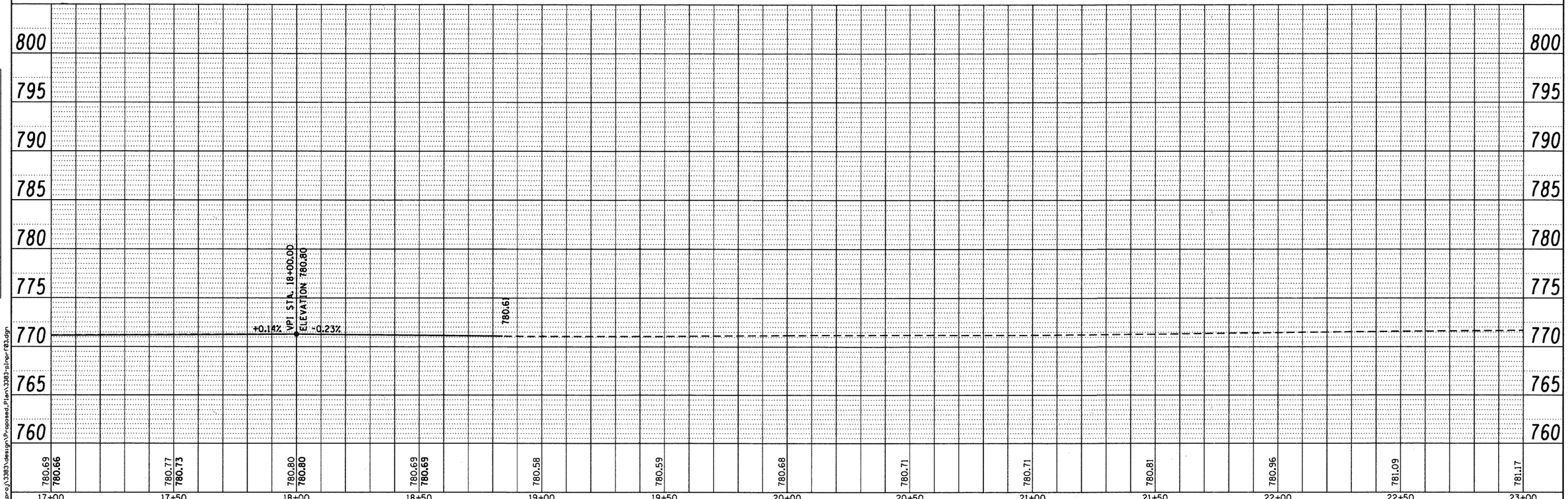
PROFILE — SURVEYED, PLOTTED, DRAWN, CHECKED, ADDED TO/DELETED, STRUCTURE NO(S)/ITMS CHKD, NOTE BOOK, NO., BY, DATE



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	DRAWN - EPS	REVISED -	
PLOT SCALE = 20.0000 ' / IN.	CHECKED - MJL	REVISED -	
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

KANE COUNTY DIVISION OF TRANSPORTATION

PROPOSED PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	14
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
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PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT CHECKED
CADD FILE NAME
STRUCTURE NOTATIONS CHKD

℄ BOLCUM ROAD

HOT-MIX ASPHALT SHOULDERS, 8"

215 FT TAPER (40:1)

EXISTING R.O.W.

BEGIN PROJECT
STA. 109+01

2' STUB

109+01, 11.5' LT
MATCH EXIST.

4"

11.5'

109

110+00

111

112

113

110'

114

50'

60'

+82

+53

+41

109+01, 11.4' RT 11.5'
MATCH EXIST.

4"

HOT-MIX ASPHALT SURFACE
REMOVAL - BUTT JOINT

2' STUB

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 3/4"
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"

HOT-MIX ASPHALT PAVEMENT WIDENING

EXISTING R.O.W.

MATCHLINE STA. 114+50
SEE SHEET 16

N

LEGEND

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
HOT-MIX ASPHALT BASE COURSE WIDENING, 9"

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
HOT-MIX ASPHALT BASE COURSE WIDENING, 7"

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

PROFILE
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NOTE BOOK
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DATE
ALIGNMENT CHECKED
STRUCTURE NOTATIONS CHKD

800
795
790
785
780
775
770
765
760

784.86

-0.60%

-0.58%

0.58%

-0.87%

VPI STA. 109+51.00
ELEVATION 784.56

VPI STA. 110+00.74
ELEVATION 784.27

PROPOSED PROFILE

EXISTING PROFILE

-0.87%

-0.47%

VPI STA. 114+15.00
ELEVATION 780.67

	785.16	784.87	784.57	784.57	784.28	784.27	783.77	783.84	783.15	783.41	782.71	782.97	782.37	782.54	781.92	782.10	781.42	781.67	781.09	781.23	780.75	780.80	780.40	780.51
			EXISTING ELEVATION	PROPOSED ELEVATION																				

108+50 109+00 109+50 110+00 110+50 111+00 111+50 112+00 112+50 113+00 113+50 114+00 114+50

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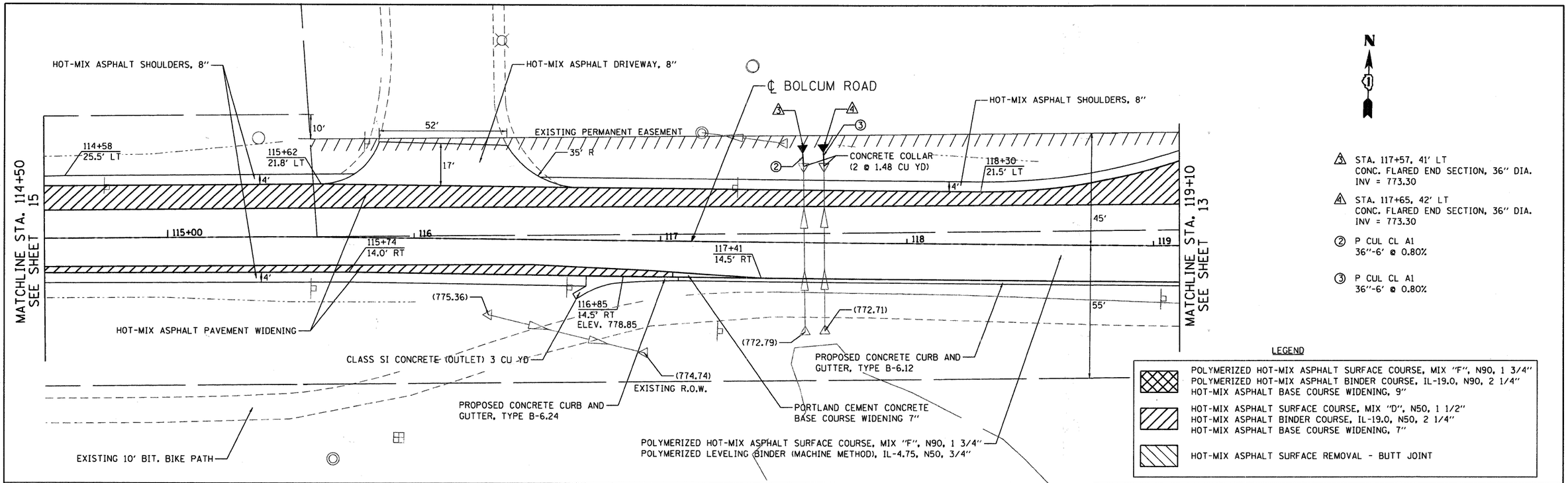
	DRAWN - EPS	REVISED -	
PLOT SCALE = 20.0000 ' / IN.	CHECKED - MJL	REVISED -	
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

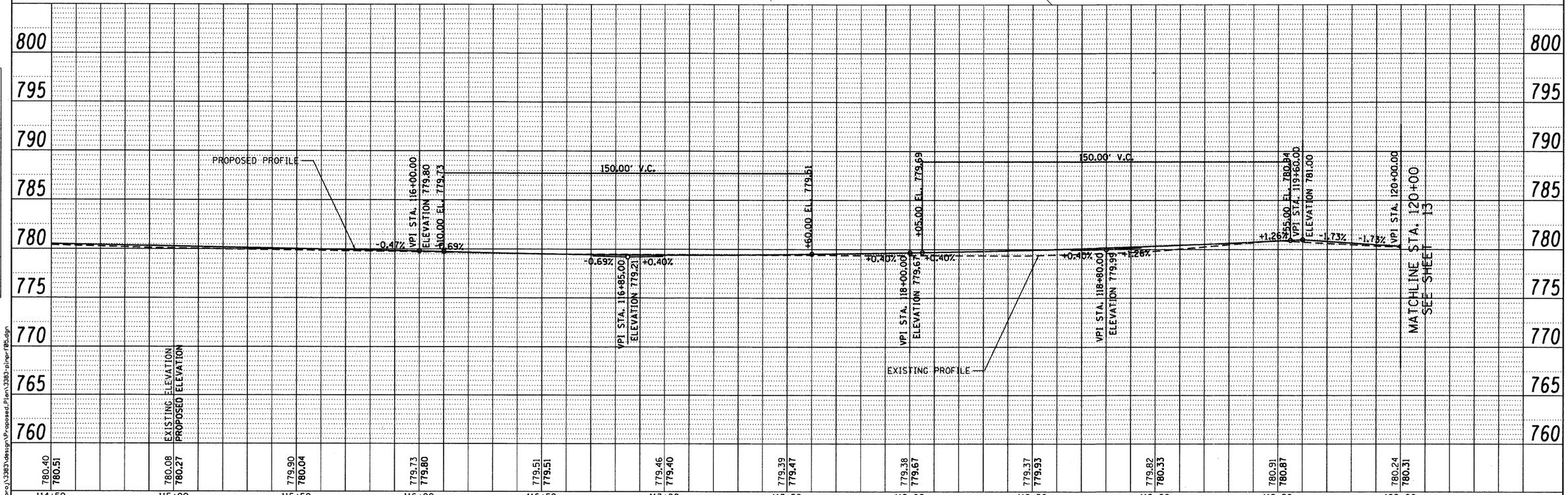
KANE COUNTY DIVISION OF TRANSPORTATION

PROPOSED PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	15
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





PLAN — SURVEYED / PLOTTED / DRAWN / CHECKED / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / NOTE BOOK / NO. / STRUCTURE NO. / BY / DATE / REMARKS

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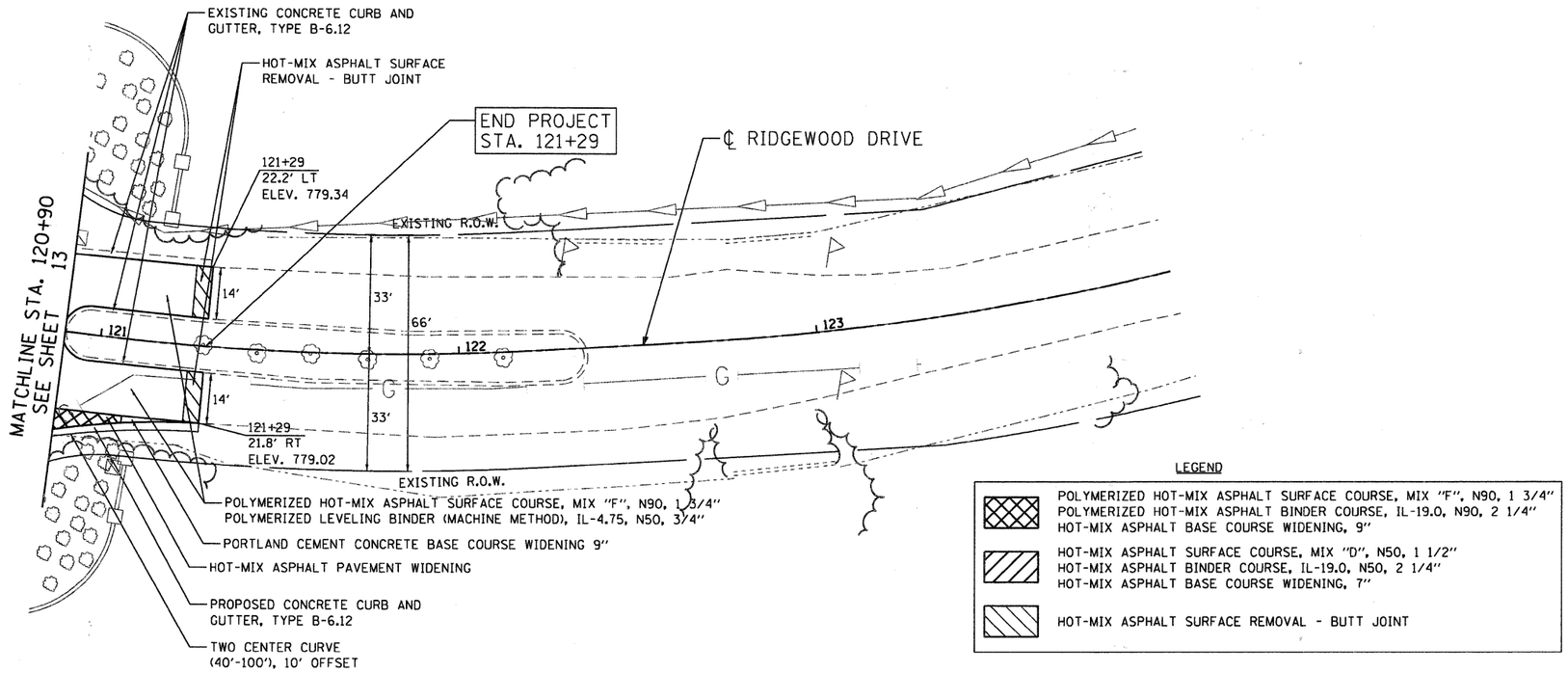
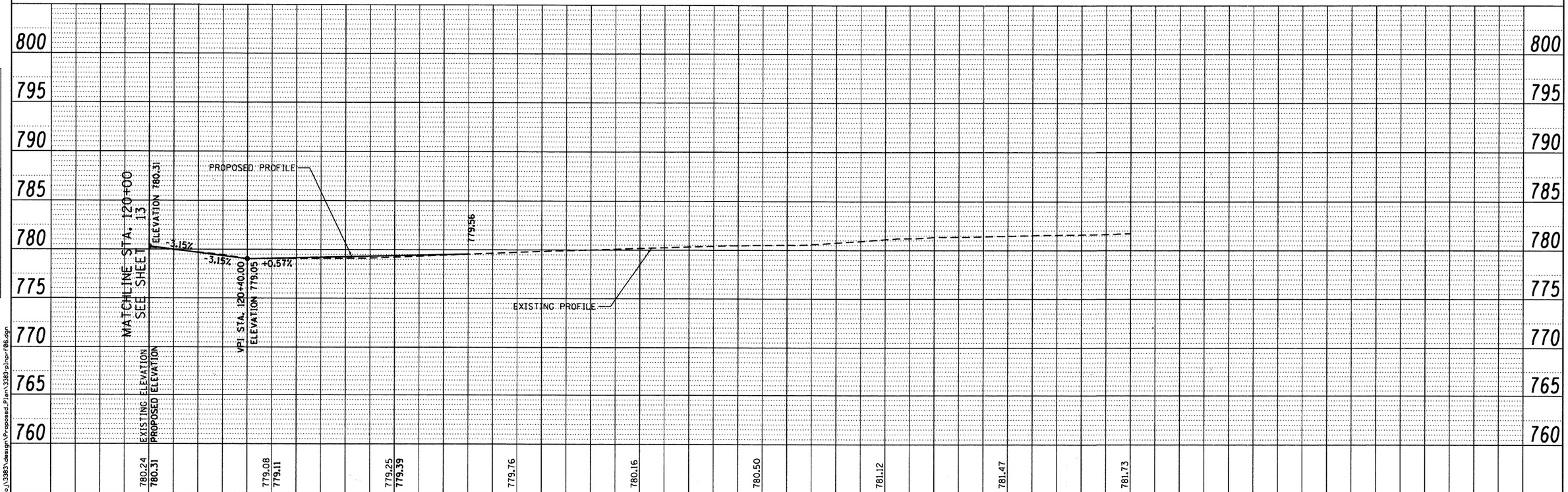
		DRAWN - EPS	REVISED -	
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - MJL	REVISED -	
	PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

PROPOSED PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	16
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, R.O.W. STAKED, CADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, R.O.W. STAKED, STRUCTURE NO(S).&/OR CHKD, NOTE BOOK, NO. ____, BY, DATE

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PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

PROPOSED PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	17
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE I

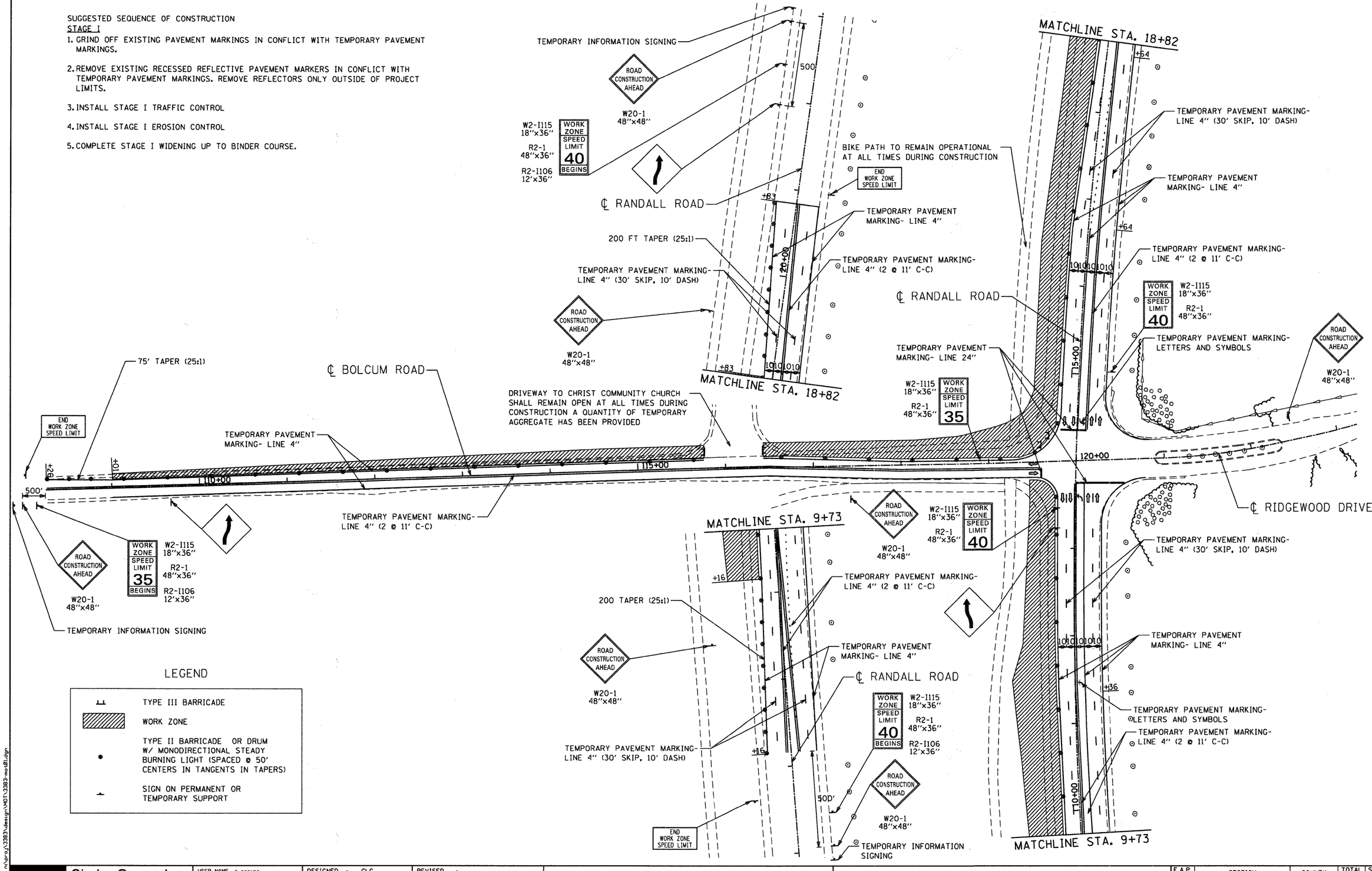
1. GRIND OFF EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.

2. REMOVE EXISTING RECESSED REFLECTIVE PAVEMENT MARKERS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS. REMOVE REFLECTORS ONLY OUTSIDE OF PROJECT LIMITS.

3. INSTALL STAGE I TRAFFIC CONTROL

4. INSTALL STAGE I EROSION CONTROL

5. COMPLETE STAGE I WIDENING UP TO BINDER COURSE.



LEGEND

	TYPE III BARRICADE
	WORK ZONE
•	TYPE II BARRICADE OR DRUM W/ MONODIRECTIONAL STEADY BURNING LIGHT (SPACED @ 50' CENTERS IN TANGENTS IN TAPERS)
	SIGN ON PERMANENT OR TEMPORARY SUPPORT

FILE NAME = n:\proj\3383\design\MOT\3383-mot01.dgn

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = espino	DESIGNED - CLG	REVISED -	
	DRAWN - EPS	REVISED -	
PLOT SCALE = 50.0000 ' / IN.	CHECKED - MJL	REVISED -	
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

KANE COUNTY DIVISION OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION
STAGE I

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	18
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

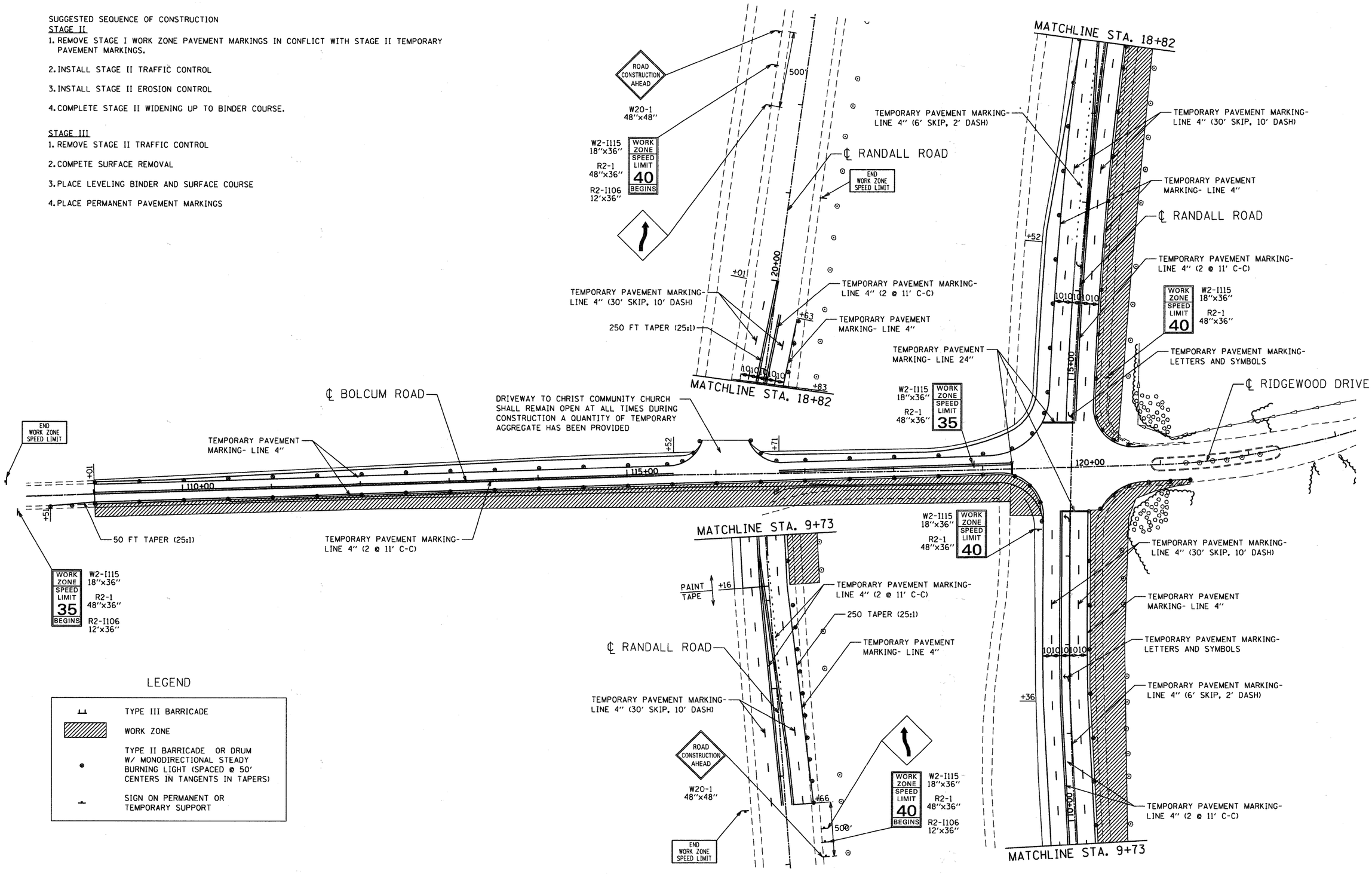
SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE II

1. REMOVE STAGE I WORK ZONE PAVEMENT MARKINGS IN CONFLICT WITH STAGE II TEMPORARY PAVEMENT MARKINGS.
2. INSTALL STAGE II TRAFFIC CONTROL
3. INSTALL STAGE II EROSION CONTROL
4. COMPLETE STAGE II WIDENING UP TO BINDER COURSE.

STAGE III

1. REMOVE STAGE II TRAFFIC CONTROL
2. COMPETE SURFACE REMOVAL
3. PLACE LEVELING BINDER AND SURFACE COURSE
4. PLACE PERMANENT PAVEMENT MARKINGS



LEGEND

- TYPE III BARRICADE
- WORK ZONE
- TYPE II BARRICADE OR DRUM W/ MONODIRECTIONAL STEADY BURNING LIGHT (SPACED @ 50' CENTERS IN TANGENTS IN TAPERS)
- SIGN ON PERMANENT OR TEMPORARY SUPPORT

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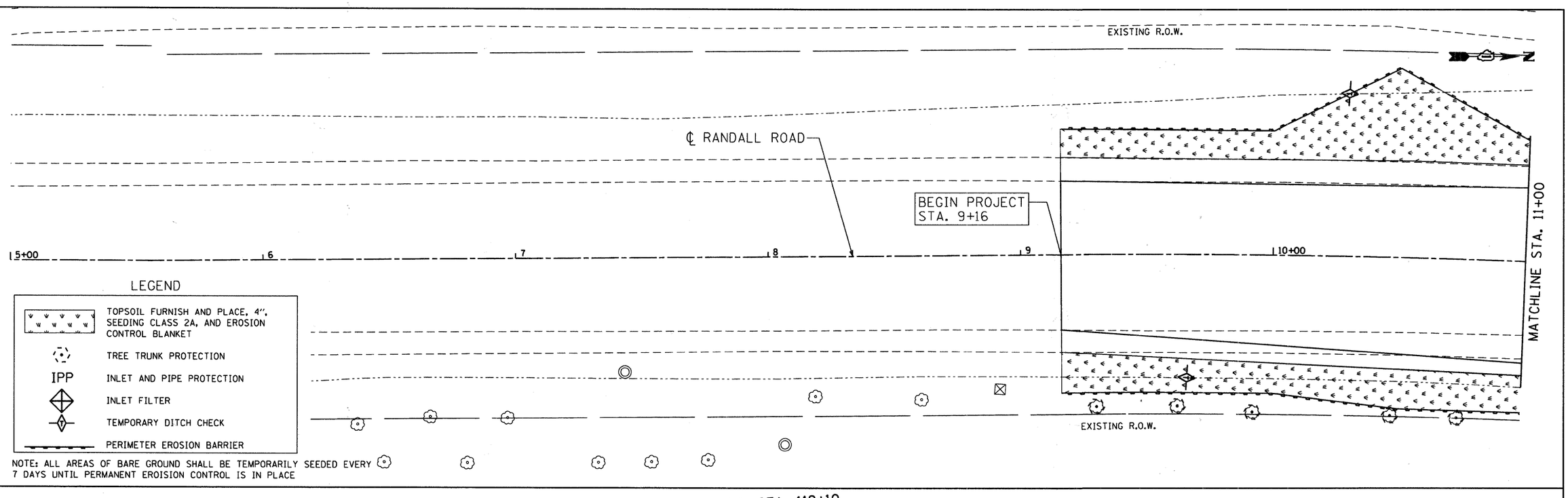
KANE COUNTY DIVISION OF TRANSPORTATION

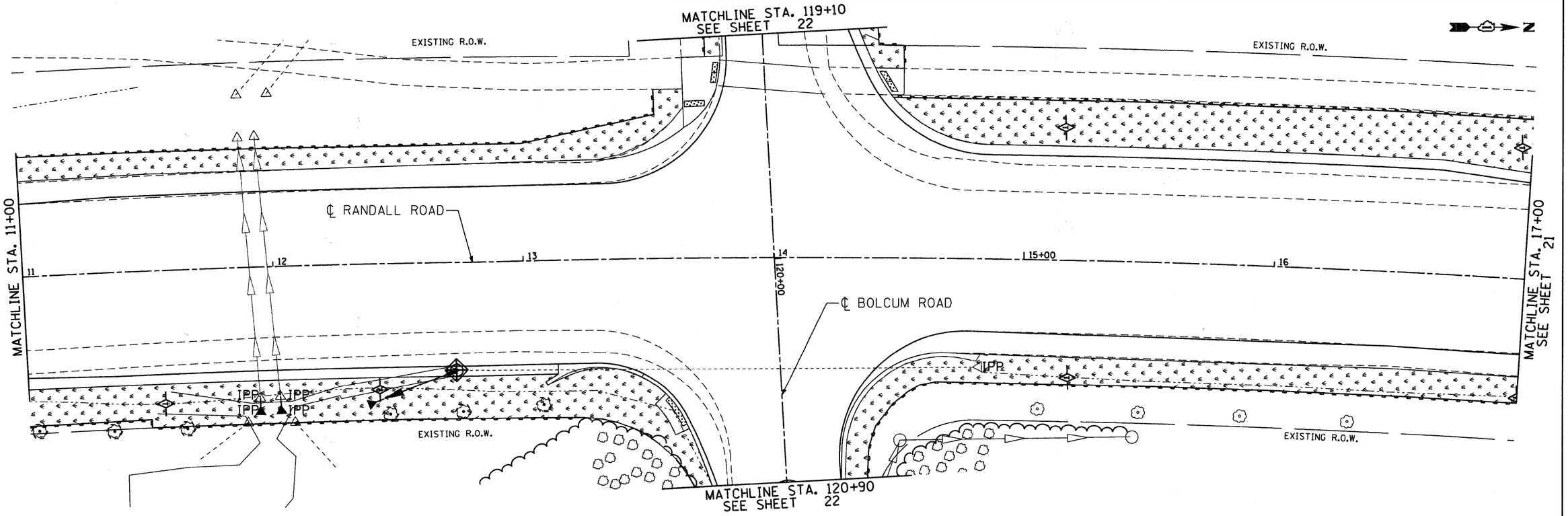
SUGGESTED STAGES OF CONSTRUCTION STAGES II & III

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	19
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE: ALL AREAS OF BARE GROUND SHALL BE TEMPORARILY SEEDED EVERY 7 DAYS UNTIL PERMANENT EROISION CONTROL IS IN PLACE



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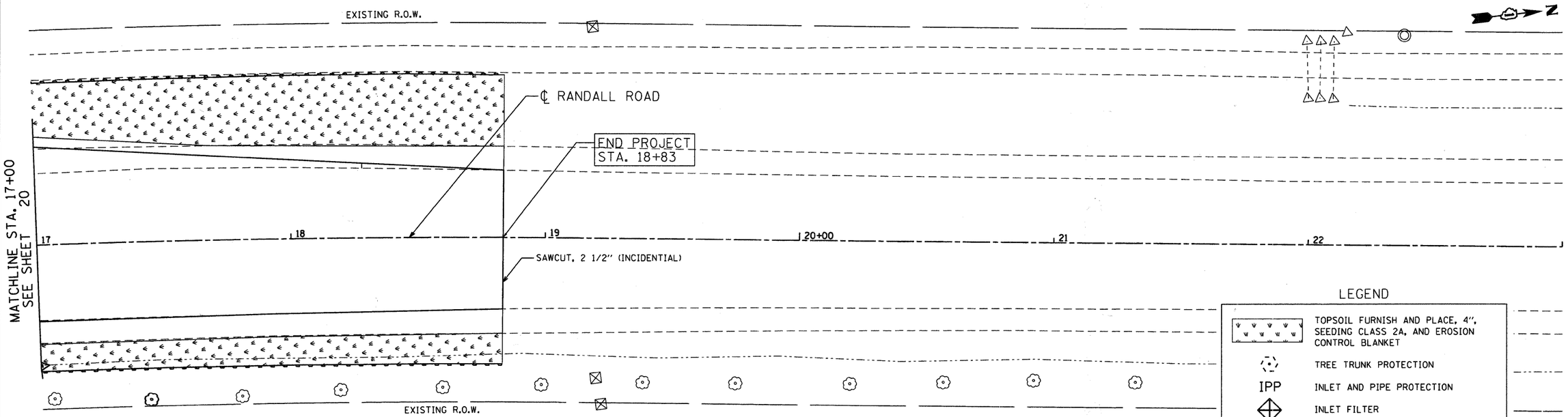
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

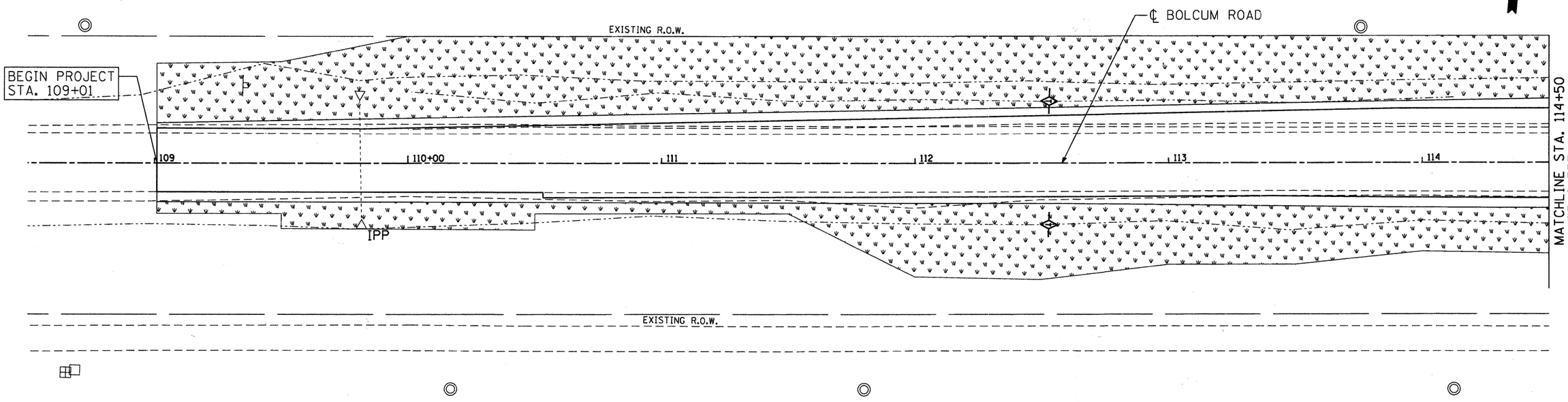
LANDSCAPING AND EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	20
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE: ALL AREAS OF BARE GROUND SHALL BE TEMPORARILY SEEDED EVERY 7 DAYS UNTIL PERMANENT EROISION CONTROL IS IN PLACE



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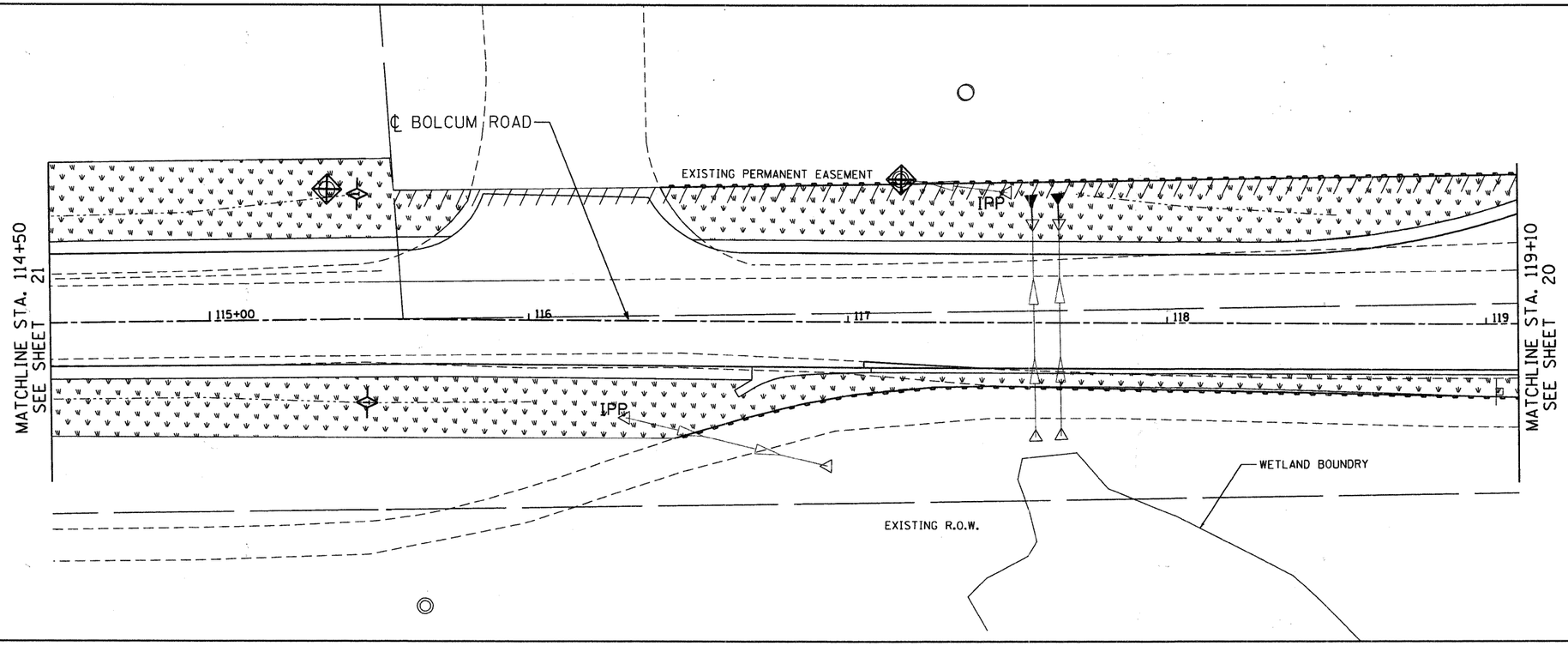
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

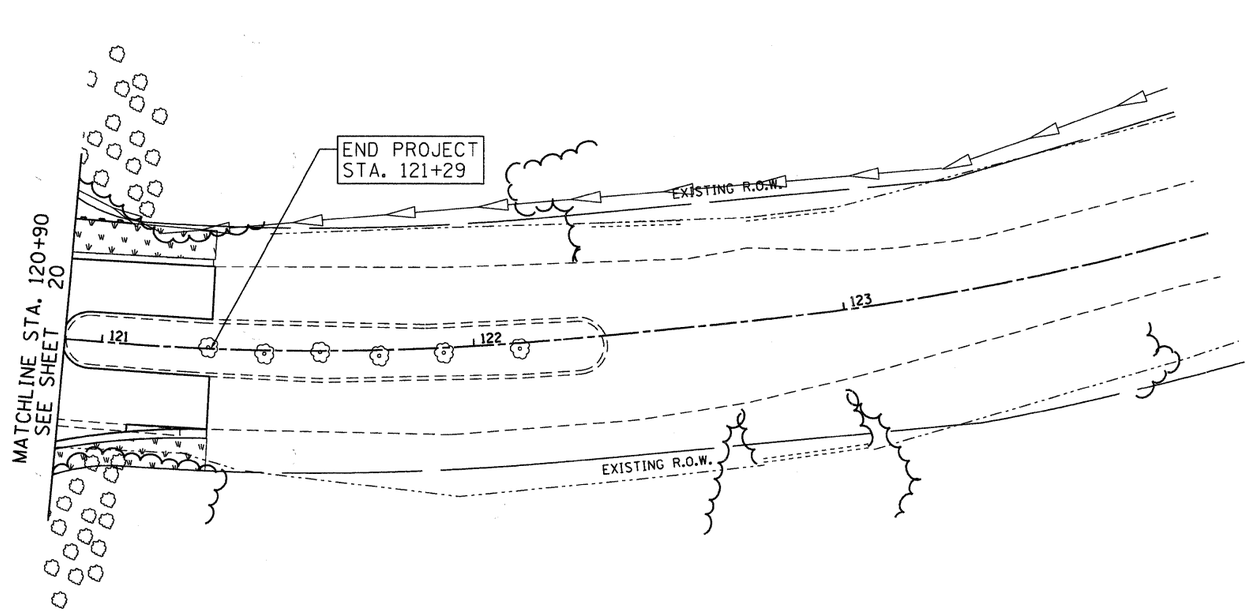
KANE COUNTY DIVISION OF TRANSPORTATION

LANDSCAPING AND EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	21
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





LEGEND

- TOPSOIL FURNISH AND PLACE, 4", SEEDING CLASS 2A, AND EROSION CONTROL BLANKET
- TREE TRUNK PROTECTION
- IPP — INLET AND PIPE PROTECTION
- INLET FILTER
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER

NOTE: ALL AREAS OF BARE GROUND SHALL BE TEMPORARILY SEEDED EVERY 7 DAYS UNTIL PERMANENT EROISION CONTROL IS IN PLACE

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PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

LANDSCAPING AND EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	22
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

℄ BOLCUM ROAD

BEGIN PROJECT STA. 109+01

EXISTING R.O.W.

REPLACEMENT REFLECTORS (TYP.)

+25

MATCH EXISTING STRIPING

EXISTING R.O.W.

URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (TYP.)

URETHANE PAVEMENT MARKING - LINE 4" (YELLOW, 2 @ 11" C-C) (TYP.)

MATCHLINE STA. 109+50

URETHANE PAVEMENT MARKING - LINE 4" (YELLOW, 2 @ 11" C-C) (TYP.)

REPLACEMENT REFLECTORS (TYP.)

URETHANE PAVEMENT MARKING - LINE 4" (WHITE, 30' SKIP, 10' DASH) (TYP.)

URETHANE PAVEMENT MARKING - LINE 6" (WHITE, 6' SKIP, 2' DASH) (TYP.)

+84

MATCH EXISTING STRIPING

120+00

URETHANE PAVEMENT MARKING - LINE 12" (YELLOW, 20' C-C @ 45°) (TYP.)

℄ RANDALL ROAD

END PROJECT STA. 18+83

EXISTING R.O.W.

EXISTING R.O.W.

MATCHLINE STA. 18+50

MATCHLINE STA. 18+50

URETHANE PAVEMENT MARKING - LINE 6" (WHITE, 6' SKIP, 2' DASH) (TYP.)

220 FT TAPER (18:1)

EXISTING R.O.W.

URETHANE PAVEMENT MARKING - LINE 12" (YELLOW, 20' C-C @ 45°) (TYP.)

URETHANE PAVEMENT MARKING - LINE 4" (WHITE, 30' SKIP, 10' DASH) (TYP.)

URETHANE PAVEMENT MARKING - LINE 4" (YELLOW, 2 @ 11" C-C) (TYP.)

URETHANE PAVEMENT MARKING LETTERS & SYMBOLS (WHITE) (TYP.)

RECESSED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER - 40' C-C) (TYP.)

+65

URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (TYP.)

℄ RANDALL ROAD

215 FT STORAGE

EXISTING R.O.W.

URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (TYP.)

RECESSED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL - 80' C-C) (TYP.)

12' 12' 12' 12' 12' 12'

URETHANE PAVEMENT MARKING - LINE 12" (WHITE) (TYP.)

℄ RIDGEWOOD DRIVE

TWO CENTERED CURVE: (55'-250'), 18' OFFSET

115+00

EXISTING 50' RADIUS

URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (TYP.)

URETHANE PAVEMENT MARKING - LINE 24" (WHITE) (TYP.)

EXISTING R.O.W.

URETHANE PAVEMENT MARKING - LINE 4" (YELLOW, 2 @ 11" C-C) (TYP.)

EXISTING PERMANENT EASEMENT

+52

+66

66'

14' 16' 14'

10'

120+00

EXISTING R.O.W.

URETHANE PAVEMENT MARKING - LINE 12" (YELLOW, 20' C-C @ 45°) (TYP.)

URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (TYP.)

RECESSED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER - 40' C-C) (TYP.)

URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (TYP.)

℄ BOLCUM ROAD

MATCHLINE STA. 109+50

110+00

115+00

50'

110' 60'

+68

+88

+74

+70

+17

+51

URETHANE PAVEMENT MARKING - LINE 24" (WHITE) (TYP.)

EXISTING R.O.W.

URETHANE PAVEMENT MARKING - LINE 12" (WHITE, 2' C-C @ 45°) (TYP.)

URETHANE PAVEMENT MARKING - LINE 12" (WHITE) (TYP.)

URETHANE PAVEMENT MARKING - LINE 12" (WHITE, 3' C-C) (TYP.)

50' RADIUS

URETHANE PAVEMENT MARKING - LINE 4" (YELLOW, 2 @ 11" C-C) (TYP.)

URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (TYP.)

URETHANE PAVEMENT MARKING - LINE 4" (WHITE, 30' SKIP, 10' DASH) (TYP.)

URETHANE PAVEMENT MARKING - LINE 6" (WHITE, 6' SKIP, 2' DASH) (TYP.)

URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (TYP.)

END PROJECT STA. 121+29

URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (TYP.)

TWO CENTERED CURVE: (40'-200'), 10' OFFSET

URETHANE PAVEMENT MARKING - LINE 24" (WHITE) (TYP.)

URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE) (TYP.)

URETHANE PAVEMENT MARKING - LINE 6" (WHITE) (TYP.)

MATCHLINE STA. 9+50

URETHANE PAVEMENT MARKING - LINE 6" (WHITE, 6' SKIP, 2' DASH) (TYP.)

BEGIN PROJECT STA. 9+16

EXISTING R.O.W.

URETHANE PAVEMENT MARKING - LINE 4" (WHITE, 30' SKIP, 10' DASH) (TYP.)

℄ RANDALL ROAD

URETHANE PAVEMENT MARKING - LINE 12" (YELLOW, 20' C-C @ 45°) (TYP.)

REPLACEMENT REFLECTORS (TYP.)

+56

EXISTING R.O.W.

MATCH EXISTING STRIPING

+34

215 FT STORAGE

URETHANE PAVEMENT MARKING - LINE 4" (WHITE) (TYP.)

220 FT TAPER (18:1)

URETHANE PAVEMENT MARKING - LINE 6" (WHITE, 6' SKIP, 2' DASH) (TYP.)

RECESSED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL - 80' C-C) (TYP.)

RECESSED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER MARKER - 40' C-C) (TYP.)

110+00

EXISTING R.O.W.

MATCHLINE STA. 9+50

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CONSULTING ENGINEERS
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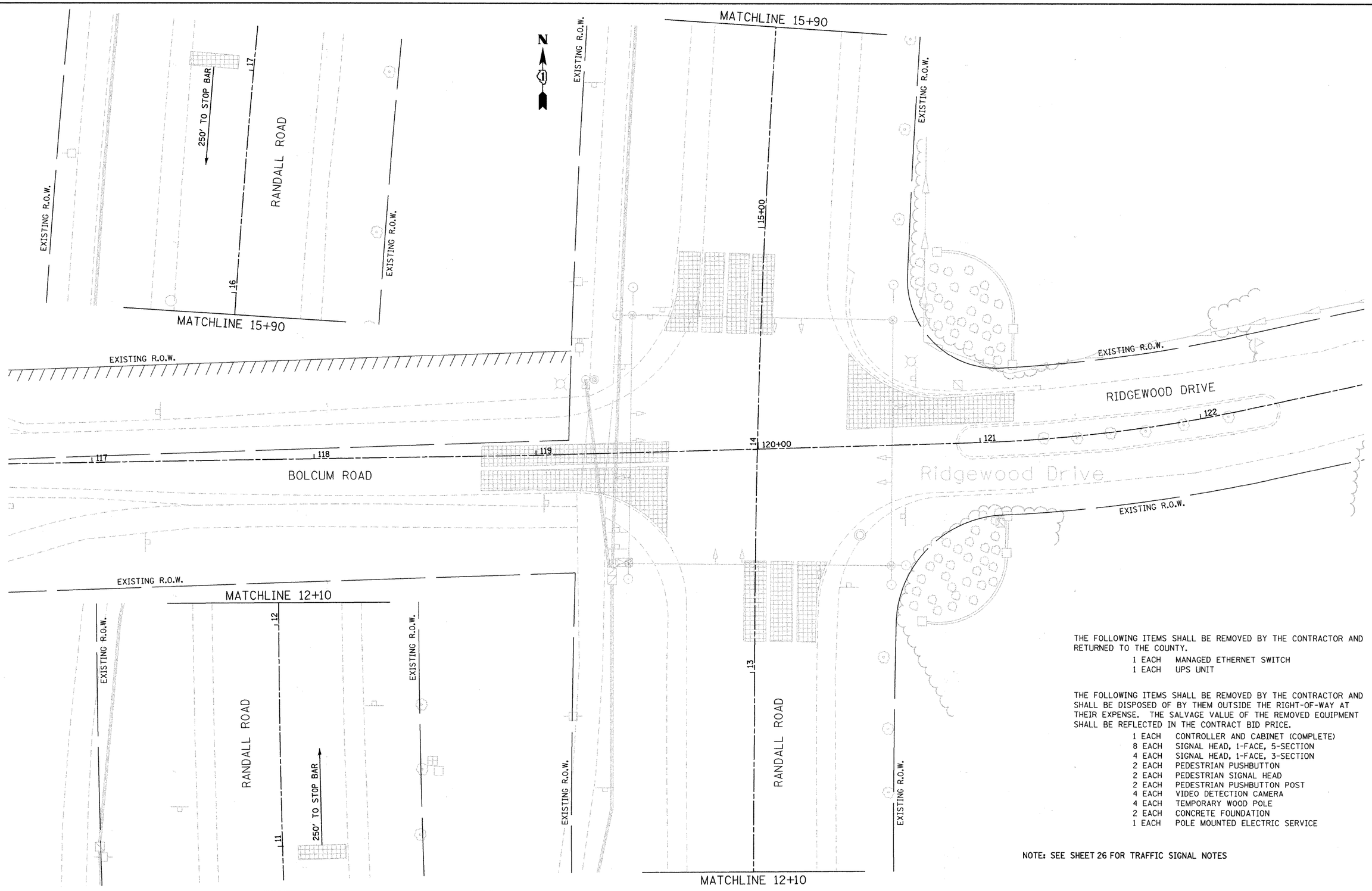
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

KANE COUNTY DIVISION OF TRANSPORTATION

PROPOSED PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	23
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE COUNTY.

1 EACH	MANAGED ETHERNET SWITCH
1 EACH	UPS UNIT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH	CONTROLLER AND CABINET (COMPLETE)
8 EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4 EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2 EACH	PEDESTRIAN PUSHBUTTON
2 EACH	PEDESTRIAN SIGNAL HEAD
2 EACH	PEDESTRIAN PUSHBUTTON POST
4 EACH	VIDEO DETECTION CAMERA
4 EACH	TEMPORARY WOOD POLE
2 EACH	CONCRETE FOUNDATION
1 EACH	POLE MOUNTED ELECTRIC SERVICE

NOTE: SEE SHEET 26 FOR TRAFFIC SIGNAL NOTES

FILE NAME = N:\PROJ\3383\Design\Signals\3383-10_Signal_TrafficSignals-EX.dgn

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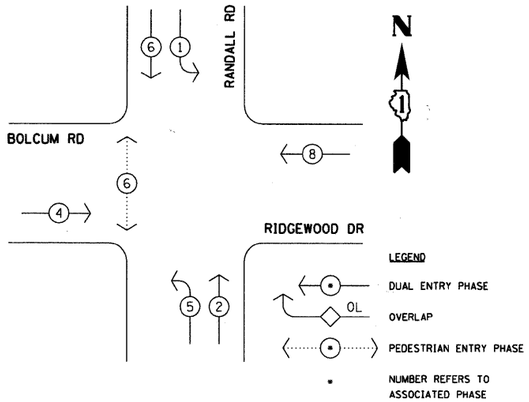
KANE COUNTY DIVISION OF TRANSPORTATION

TRAFFIC SIGNAL PLAN – EXISTING

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

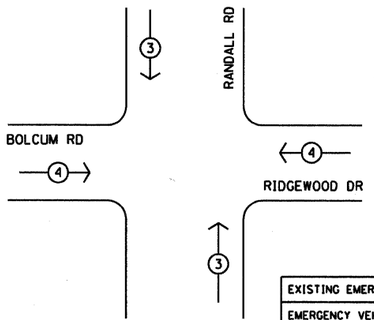
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	24
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

EXISTING/TEMPORARY CONTROLLER SEQUENCE



EXISTING/TEMPORARY PHASE DESTINATION DIAGRAM

EXISTING/TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

NOTE:

EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

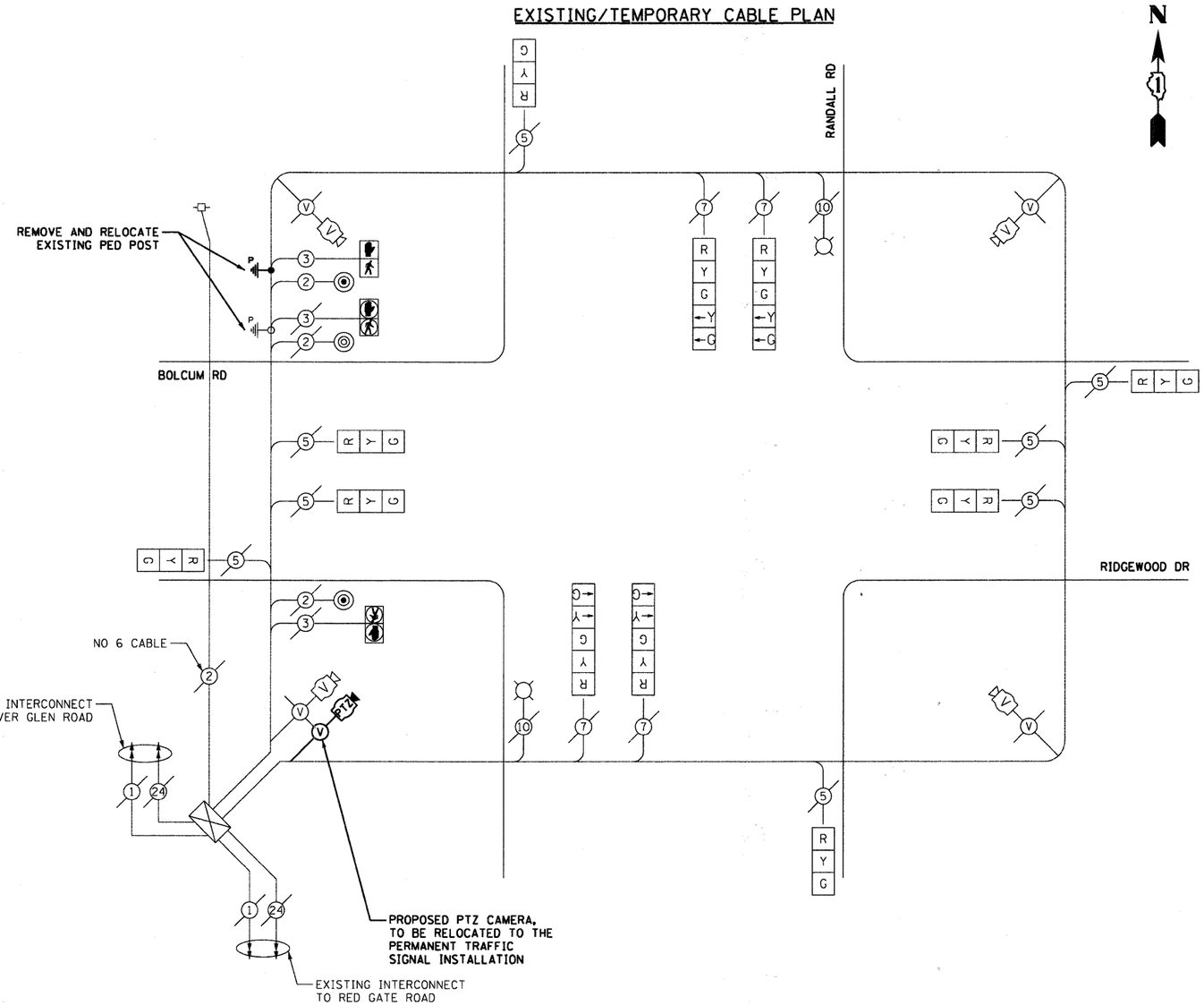
I.D.O.T
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE (LED)	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	8	135	12	0.10	10.00
PED. SIGNAL	2	90	25	1.00	50.00
CONTROLLER	1	100	100	1.00	100.00
VIDEO SYSTEM	1	150	-	1.00	150.00
LUMINAIRES	2	-	250	0.50	250.00
				TOTAL =	782.00

ENERGY COSTS TO:
KANE COUNTY DIVISION OF TRANSPORTATION
41W011 BURLINGTON ROAD
ST. CHARLES, IL 60175

ENERGY SUPPLY CONTACT: ROSE PECARARO
PHONE: (847) 608-2331
COMPANY: COM ED

EXISTING/TEMPORARY CABLE PLAN



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Tel. 773.775.4009 Fax 773.775.4014

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	DRAWN - RJR	REVISED -	
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PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

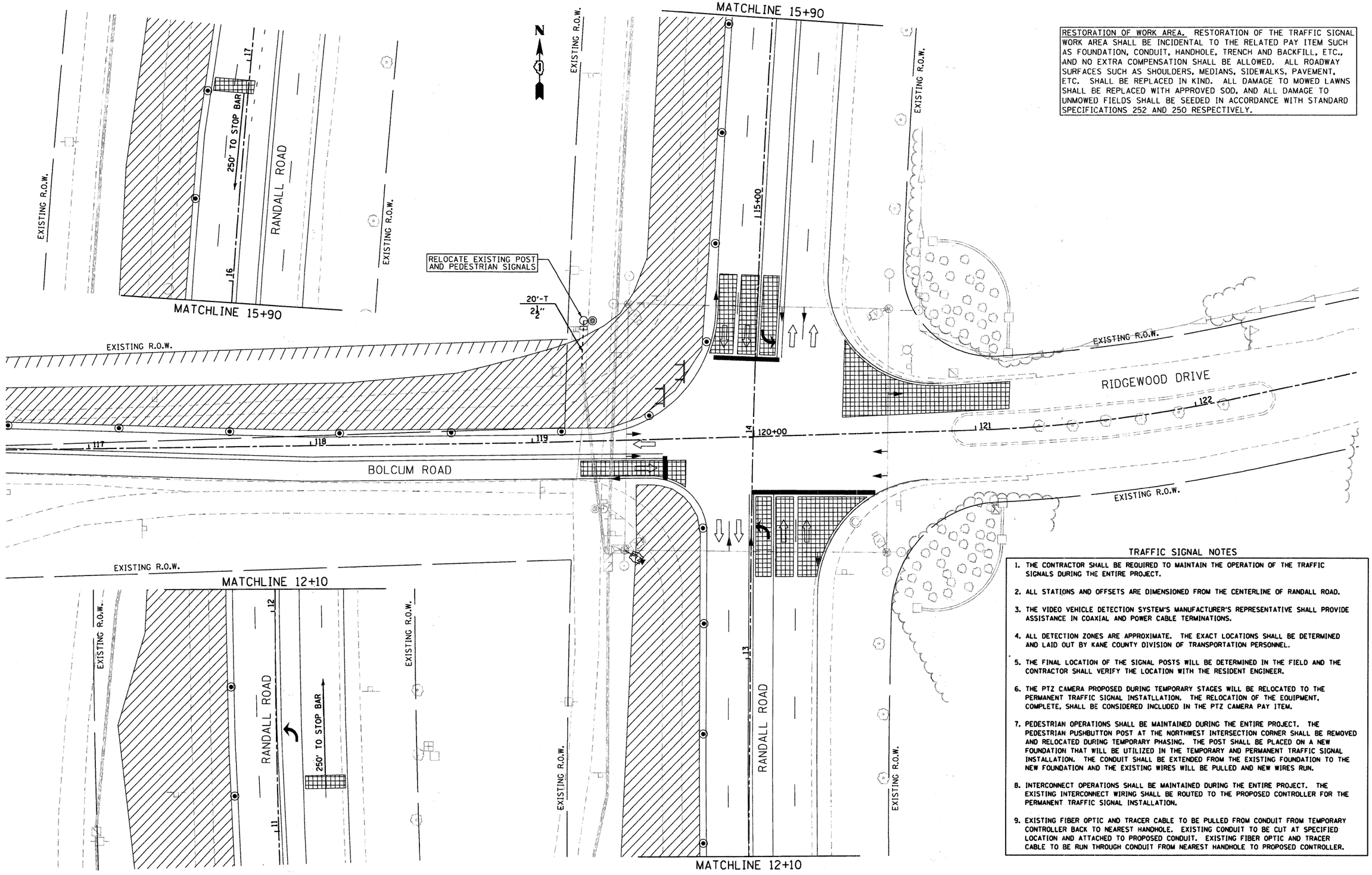
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES
RANDALL ROAD AND BOLCUM ROAD – EXISTING/TEMPORARY

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	25
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = n:\proj\3383\design\Signals\3383-11_Signal_cablePlanEX.dgn



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

TRAFFIC SIGNAL NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.
2. ALL STATIONS AND OFFSETS ARE DIMENSIONED FROM THE CENTERLINE OF RANDALL ROAD.
3. THE VIDEO VEHICLE DETECTION SYSTEM'S MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE ASSISTANCE IN COAXIAL AND POWER CABLE TERMINATIONS.
4. ALL DETECTION ZONES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY KANE COUNTY DIVISION OF TRANSPORTATION PERSONNEL.
5. THE FINAL LOCATION OF THE SIGNAL POSTS WILL BE DETERMINED IN THE FIELD AND THE CONTRACTOR SHALL VERIFY THE LOCATION WITH THE RESIDENT ENGINEER.
6. THE PTZ CAMERA PROPOSED DURING TEMPORARY STAGES WILL BE RELOCATED TO THE PERMANENT TRAFFIC SIGNAL INSTATLLATION. THE RELOCATION OF THE EQUIPMENT, COMPLETE, SHALL BE CONSIDERED INCLUDED IN THE PTZ CAMERA PAY ITEM.
7. PEDESTRIAN OPERATIONS SHALL BE MAINTAINED DURING THE ENTIRE PROJECT. THE PEDESTRIAN PUSHBUTTON POST AT THE NORTHWEST INTERSECTION CORNER SHALL BE REMOVED AND RELOCATED DURING TEMPORARY PHASING. THE POST SHALL BE PLACED ON A NEW FOUNDATION THAT WILL BE UTILIZED IN THE TEMPORARY AND PERMANENT TRAFFIC SIGNAL INSTALLATION. THE CONDUIT SHALL BE EXTENDED FROM THE EXISTING FOUNDATION TO THE NEW FOUNDATION AND THE EXISTING WIRES WILL BE PULLED AND NEW WIRES RUN.
8. INTERCONNECT OPERATIONS SHALL BE MAINTAINED DURING THE ENTIRE PROJECT. THE EXISTING INTERCONNECT WIRING SHALL BE ROUTED TO THE PROPOSED CONTROLLER FOR THE PERMANENT TRAFFIC SIGNAL INSTALLATION.
9. EXISTING FIBER OPTIC AND TRACER CABLE TO BE PULLED FROM CONDUIT FROM TEMPORARY CONTROLLER BACK TO NEAREST HANDHOLE. EXISTING CONDUIT TO BE CUT AT SPECIFIED LOCATION AND ATTACHED TO PROPOSED CONDUIT. EXISTING FIBER OPTIC AND TRACER CABLE TO BE RUN THROUGH CONDUIT FROM NEAREST HANDHOLE TO PROPOSED CONTROLLER.

FILE NAME = n:\proj\3383\design\Signals\3383-12_Signal_TrafficSignalS1.dgn

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CONSULTING ENGINEERS
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Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

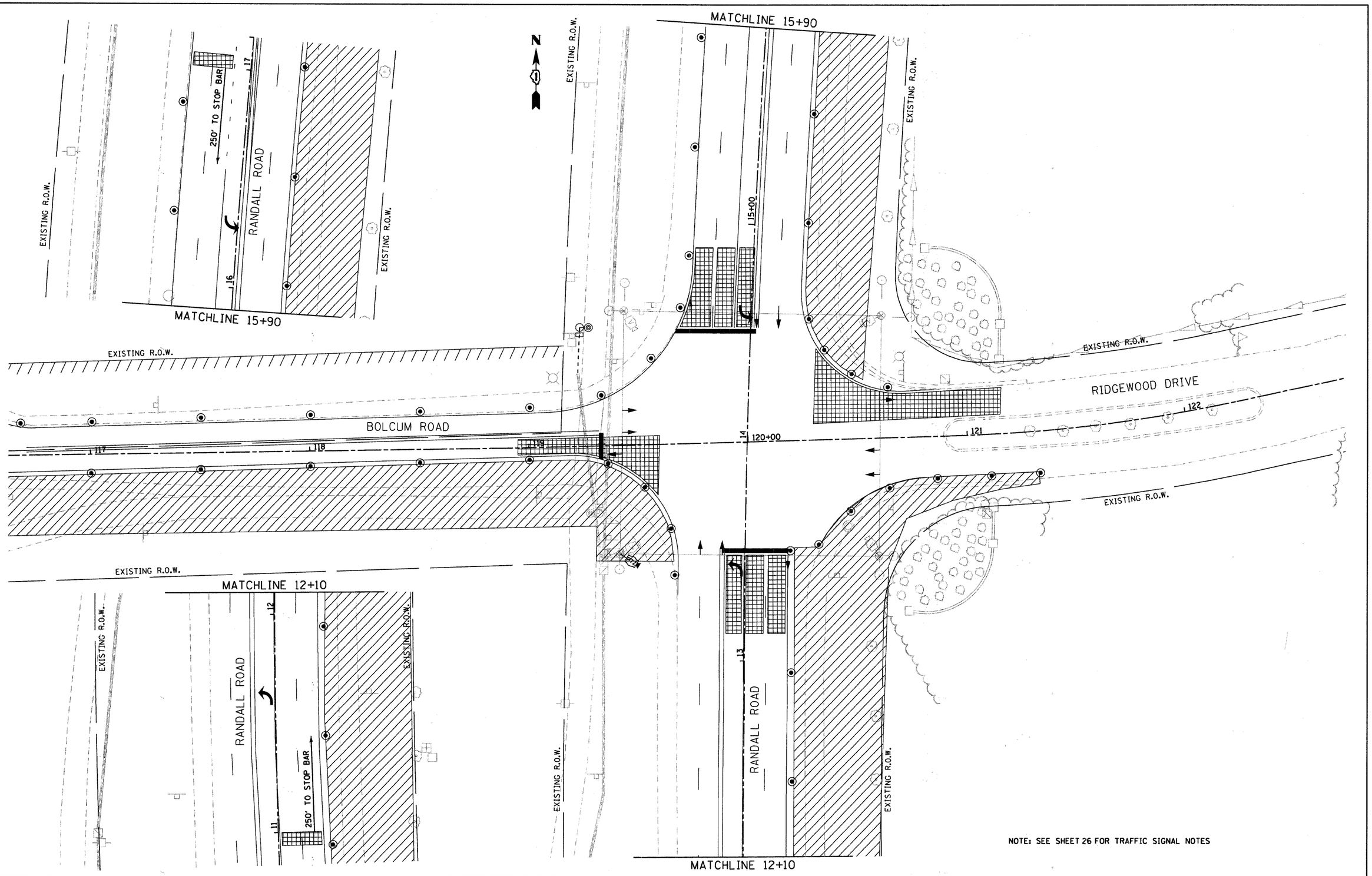
USER NAME = espino	DESIGNED - CLG	REVISED -
	DRAWN - EPS	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN – STAGE I

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	26
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE: SEE SHEET 26 FOR TRAFFIC SIGNAL NOTES

FILE NAME = n:\proj\3383\design\Signals\3383-14_Signal_TrafficSignalS-82.dgn

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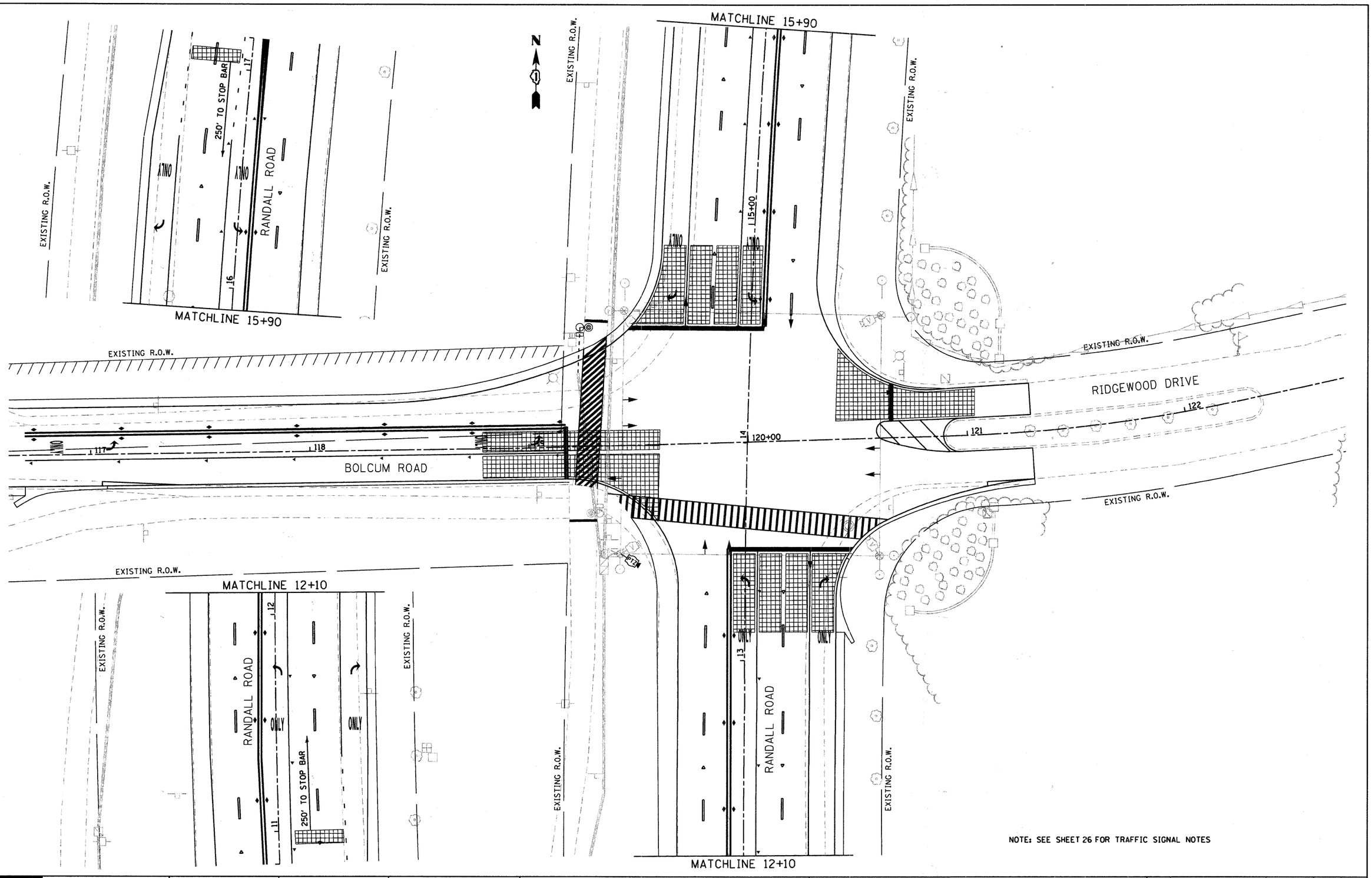
	DRAWN - EPS	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN – STAGE II

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	27
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE: SEE SHEET 26 FOR TRAFFIC SIGNAL NOTES

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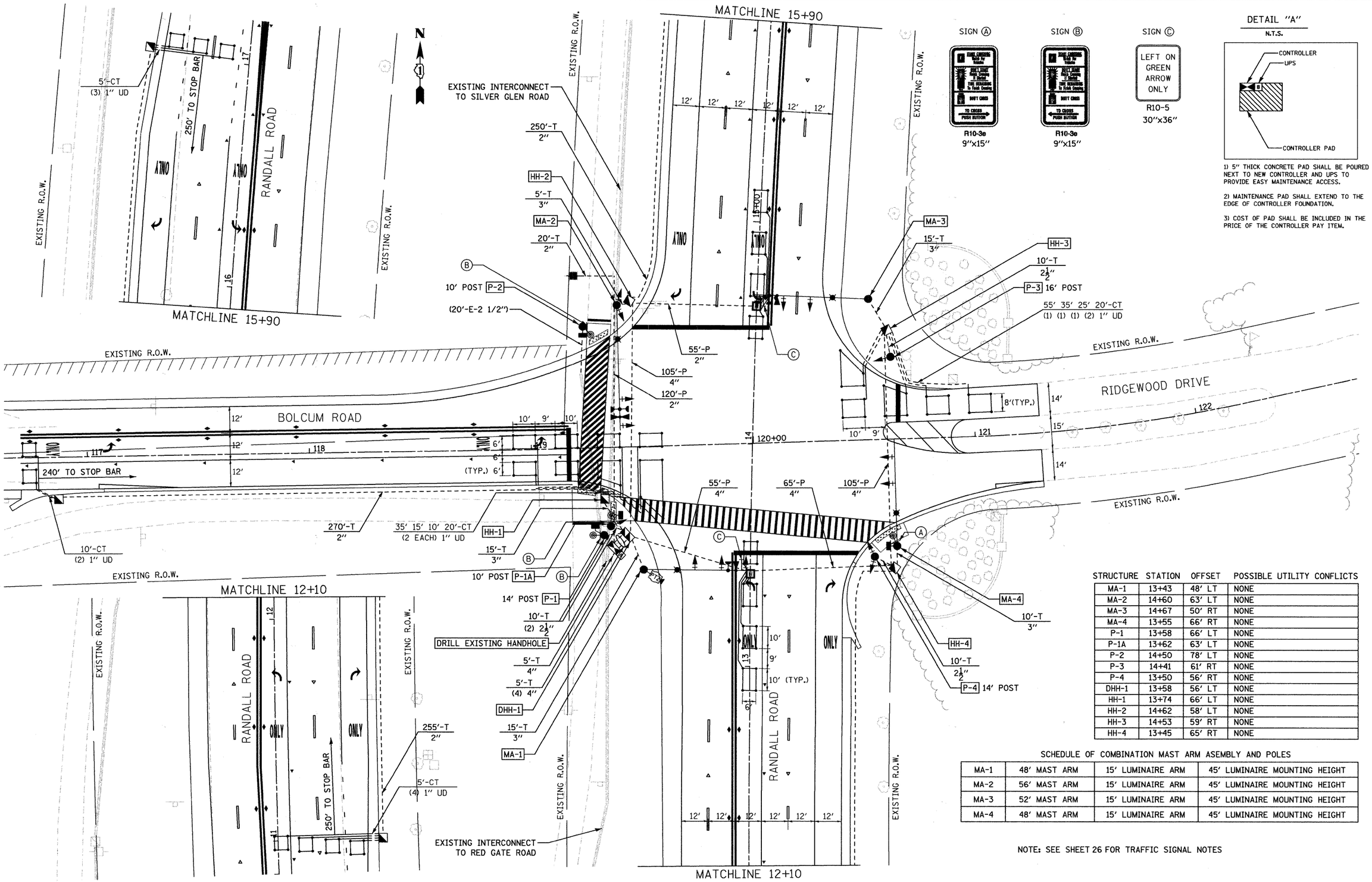
PLOT SCALE = 20.0000 ' / IN.	CHECKED - MJL	REVISED -	
PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -	

KANE COUNTY DIVISION OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN – STAGE III

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	28
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SIGN Ⓐ

R10-3e
9"x15"

SIGN Ⓑ

R10-3e
9"x15"

SIGN Ⓒ

R10-5
30"x36"

DETAIL "A"
N.T.S.

1) 5" THICK CONCRETE PAD SHALL BE POURED NEXT TO NEW CONTROLLER AND UPS TO PROVIDE EASY MAINTENANCE ACCESS.

2) MAINTENANCE PAD SHALL EXTEND TO THE EDGE OF CONTROLLER FOUNDATION.

3) COST OF PAD SHALL BE INCLUDED IN THE PRICE OF THE CONTROLLER PAY ITEM.

STRUCTURE	STATION	OFFSET	POSSIBLE UTILITY CONFLICTS
MA-1	13+43	48' LT	NONE
MA-2	14+60	63' LT	NONE
MA-3	14+67	50' RT	NONE
MA-4	13+55	66' RT	NONE
P-1	13+58	66' LT	NONE
P-1A	13+62	63' LT	NONE
P-2	14+50	78' LT	NONE
P-3	14+41	61' RT	NONE
P-4	13+50	56' RT	NONE
DHH-1	13+58	56' LT	NONE
HH-1	13+74	66' LT	NONE
HH-2	14+62	58' LT	NONE
HH-3	14+53	59' RT	NONE
HH-4	13+45	65' RT	NONE

SCHEDULE OF COMBINATION MAST ARM ASSEMBLY AND POLES

MA-1	48' MAST ARM	15' LUMINAIRE ARM	45' LUMINAIRE MOUNTING HEIGHT
MA-2	56' MAST ARM	15' LUMINAIRE ARM	45' LUMINAIRE MOUNTING HEIGHT
MA-3	52' MAST ARM	15' LUMINAIRE ARM	45' LUMINAIRE MOUNTING HEIGHT
MA-4	48' MAST ARM	15' LUMINAIRE ARM	45' LUMINAIRE MOUNTING HEIGHT

NOTE: SEE SHEET 26 FOR TRAFFIC SIGNAL NOTES

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USER NAME = jvondra	DESIGNED - CLG	REVISED -	
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PLOT SCALE = 20.0000 ' / IN.	CHECKED - MJL	REVISED -	
PLOT DATE = 12/21/2010	DATE - 12-20-2010	REVISED -	

KANE COUNTY DIVISION OF TRANSPORTATION

TRAFFIC SIGNAL PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	29
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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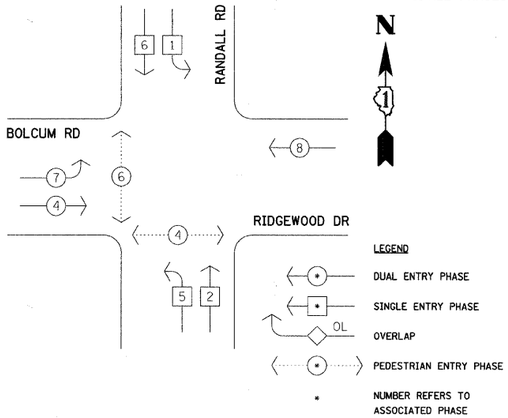
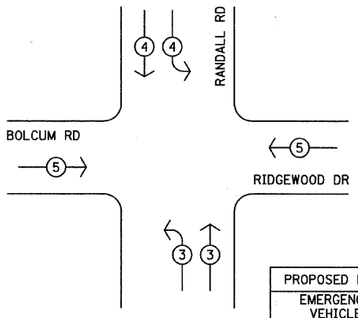
PROPOSED CONTROLLER SEQUENCE

A. PLACE PHASES 2 AND 6 ON MINIMUM RECALL.
B. DISABLE THE ANTI BACK UP RESTRICTION FOR PHASE 1 AND 5.
C. ALL PHASES ARE DUAL ENTRY.



PROPOSED PHASE DESTINATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTOR			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

NOTE:

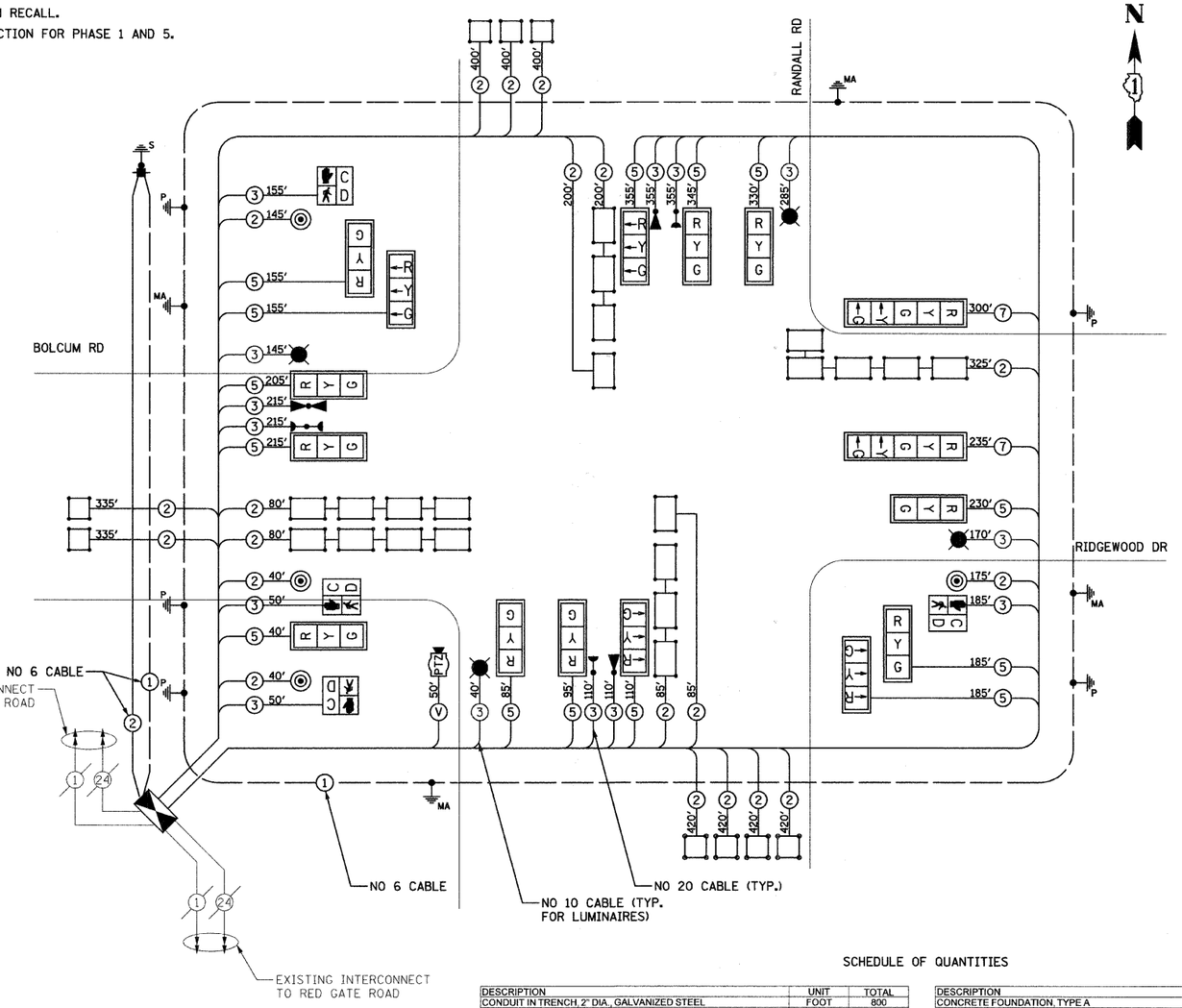
EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

I.D.O.T
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE (LED)	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	4	90	25	1.00	100.00
CONTROLLER	1	100	100	1.00	100.00
VIDEO SYSTEM	1	150	-	1.00	150.00
LUMINAIRES	4	-	250	0.50	500.00
ENERGY COSTS TO:				TOTAL =	1,091.20

KANE COUNTY DIVISION OF TRANSPORTATION
41W011 BURLINGTON ROAD
ST. CHARLES, IL 60175
ENERGY SUPPLY CONTACT: ROSE PECARARO
PHONE: (847) 608-2331
COMPANY: COM ED

PROPOSED CABLE PLAN



NOTES:

1. ALL TRAFFIC SIGNAL CABINET DATA INCLUDING THAT FROM THE PROPOSED PTZ CAMERA, TRAFFIC SIGNAL CONTROLLER, MALFUNCTION MANAGEMENT UNIT, AND UNINTERRUPTIBLE POWER SUPPLY SHALL BE CONVEYED THROUGH THE COUNTY'S ATMS NETWORK VIA ETHERNET PROTOCOL FOR DIRECT COMMUNICATIONS TO/FROM THE KDOT OFFICE.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "SIEMENS" TO MATCH THE EXISTING ADJACENT SYSTEM.
3. THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	800
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	60
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	60
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	25
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	175
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	330
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1900
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	945
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 2C	FOOT	400
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	1150
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 5C	FOOT	2700
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 7C	FOOT	550
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.18 1 PAIR	FOOT	350
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1100
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 6 PAIR	FOOT	450
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C	FOOT	200
TRAFFIC SIGNAL POST, 10 FT.	EACH	2
TRAFFIC SIGNAL POST, 14 FT.	EACH	2
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1

DESCRIPTION	UNIT	TOTAL
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	18
DETECTOR LOOP, TYPE I	FOOT	1350
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	200
FIBER OPTIC CABLE SPLICE	EACH	1
ETHERNET SWITCH	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	700
REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT	EACH	1
TEST HOLE	EACH	8
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
NETWORK CONFIGURATION	L SUM	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	750
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

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USER NAME = espina	DESIGNED - RJR	REVISED -	
	DRAWN - RJR	REVISED -	
PLOT SCALE = 1.2000 ' / IN.	CHECKED - MJL	REVISED -	
PLOT DATE = 1/4/2011	DATE - 12-20-2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES
RANDALL ROAD AND BOLCUM ROAD – PROPOSED

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A... RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	30
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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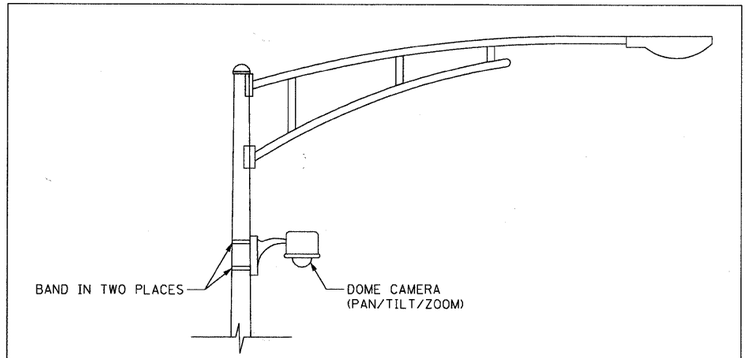
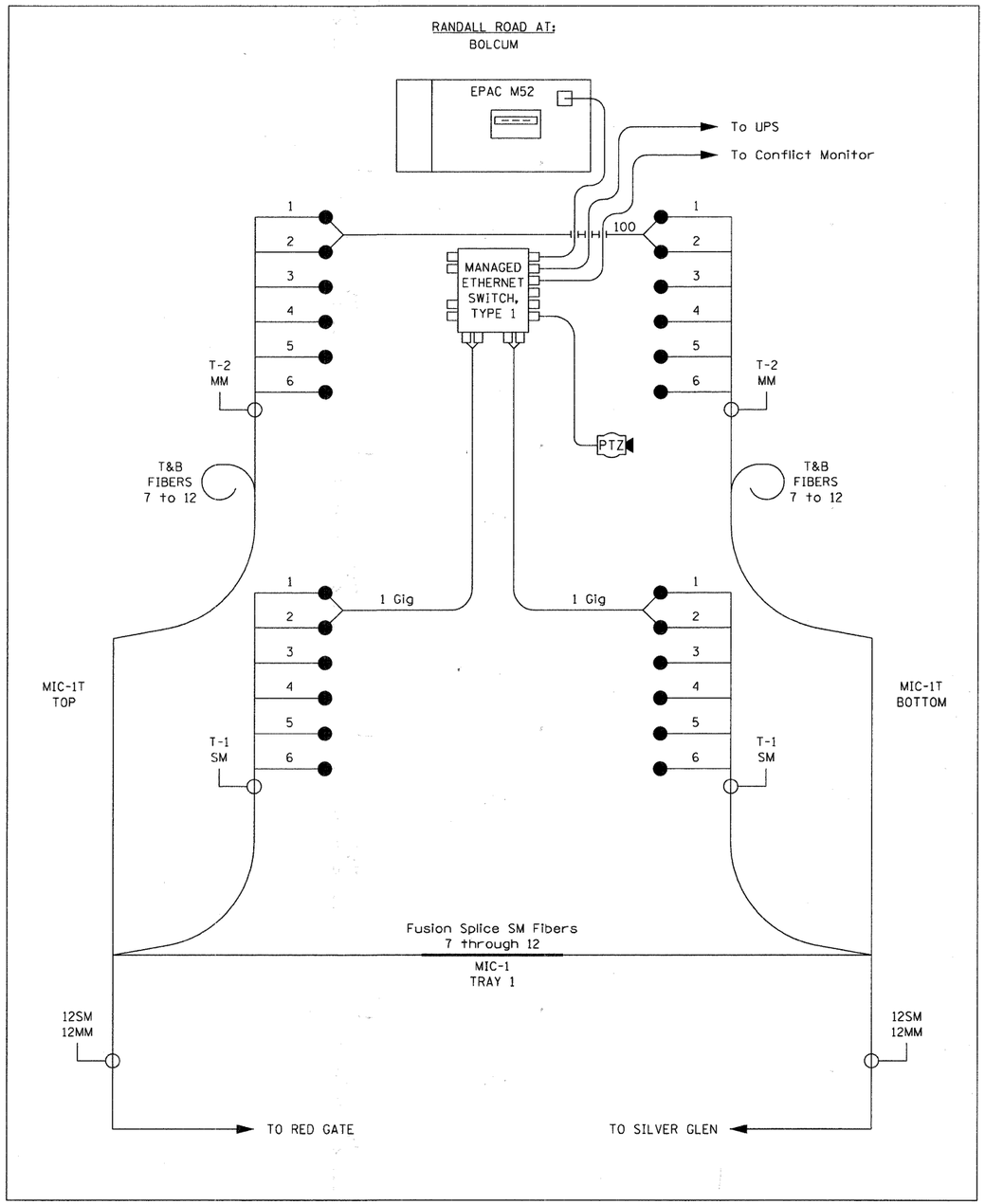


DOME (PTZ) CAMERA MOUNTING DETAIL

(NOT TO SCALE)

NOTE

1. THE REPLACEMENT OF THE FIBER OPTIC TERMINATION PANEL SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.



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	DRAWN - EPS	REVISED -
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PLOT DATE = 12/20/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

TRAFFIC SIGNAL DETAILS

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	31
		CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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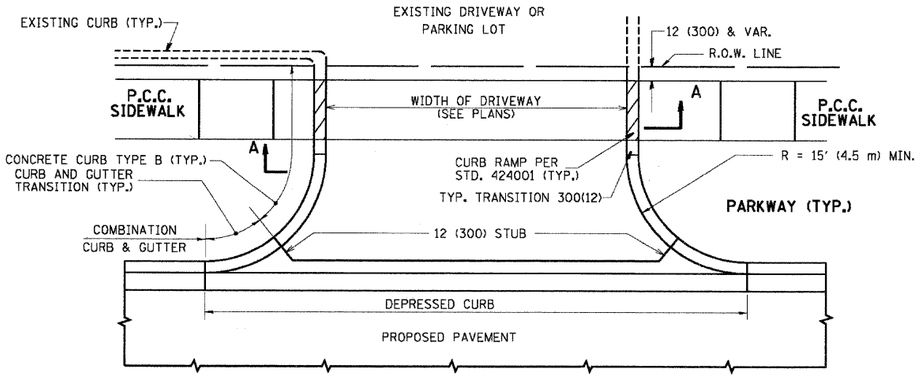
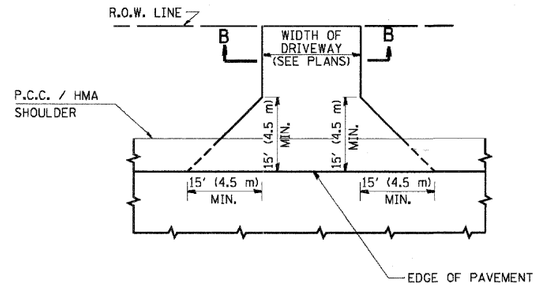
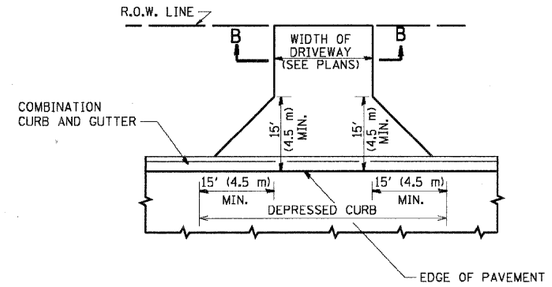


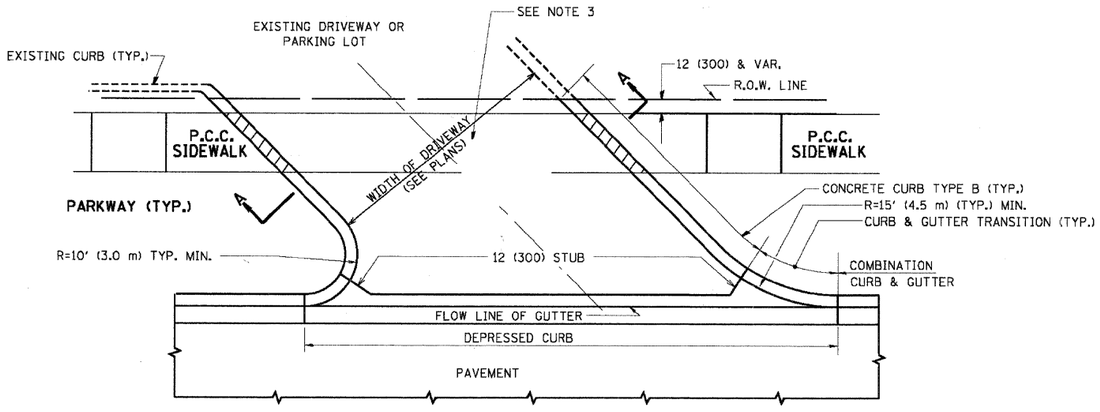
WITH CONCRETE CURB, TYPE B



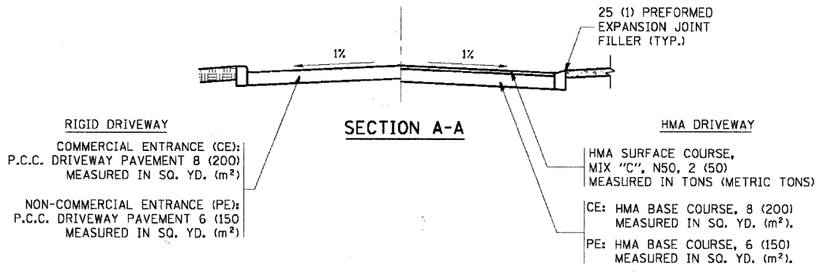
ADJACENT TO P.C.C. / HMA SHOULDER

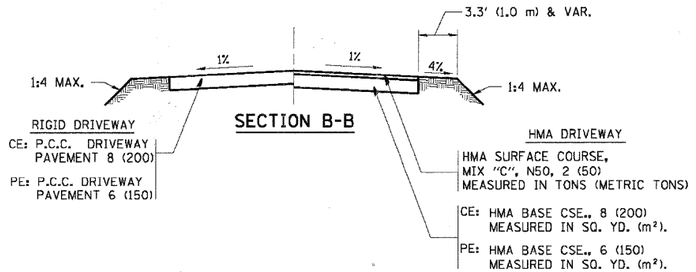


ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B





RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "C", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB. CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

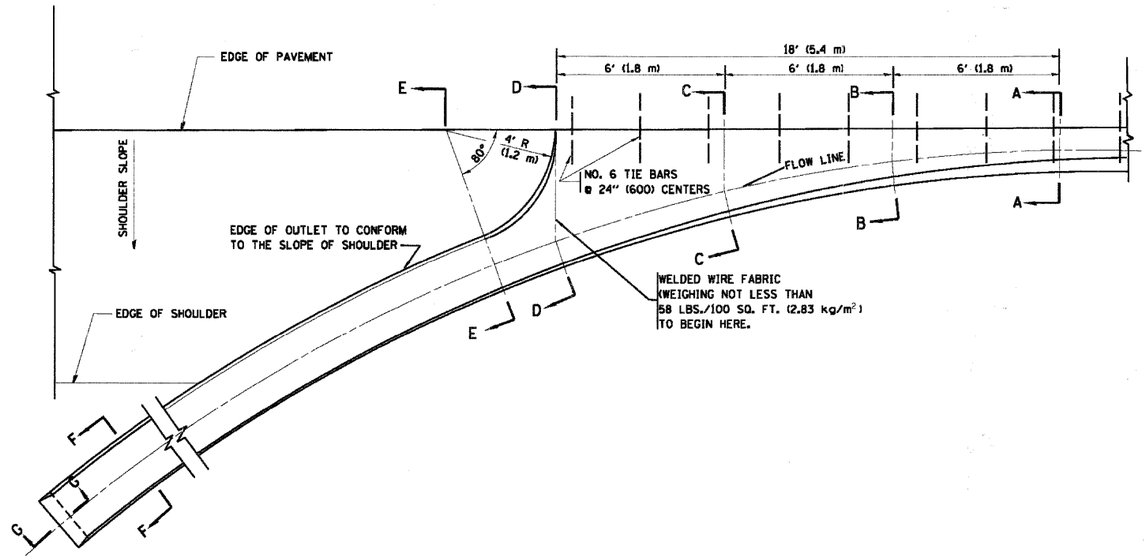
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

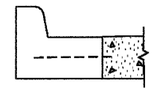
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

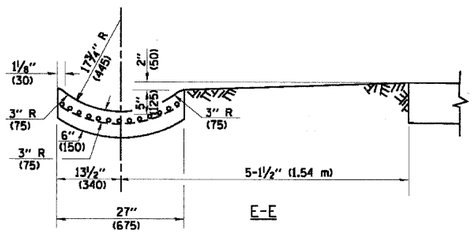
FILE NAME = d:\projects\diststd22x34\bd21.dgn	USER NAME = bauerd1	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)**				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - P. LaFLUER 04-15-03						336	04-00325-00-TL	KANE	54	32
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED - R. BORO 01-01-07							BD0156-07 (BD-01)		CONTRACT NO. 63547	
	PLOT DATE = 6/12/2008	DATE - 11-04-95	REVISED - R. BORO 06-11-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



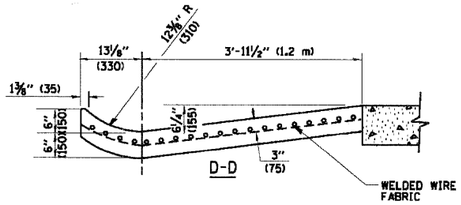


A-A *

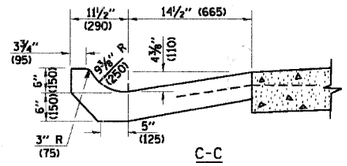
* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001.
FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



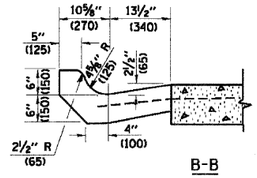
E-E



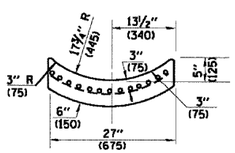
D-D



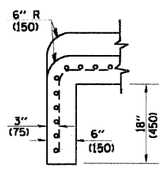
C-C



B-B



F-F



G-G

GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.

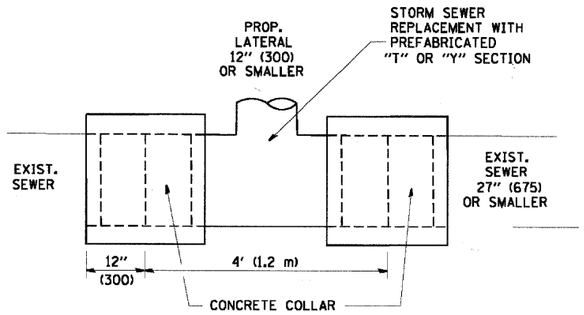
IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL=
1.25 CU. YDS. (0.96 m^3) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T.
1.27 CU. YDS. (0.96 m^3) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.
FOR SECTION F-F=
0.045 CU. YDS. (0.03 m^3) CLASS SI CONCRETE PER ft. (m).

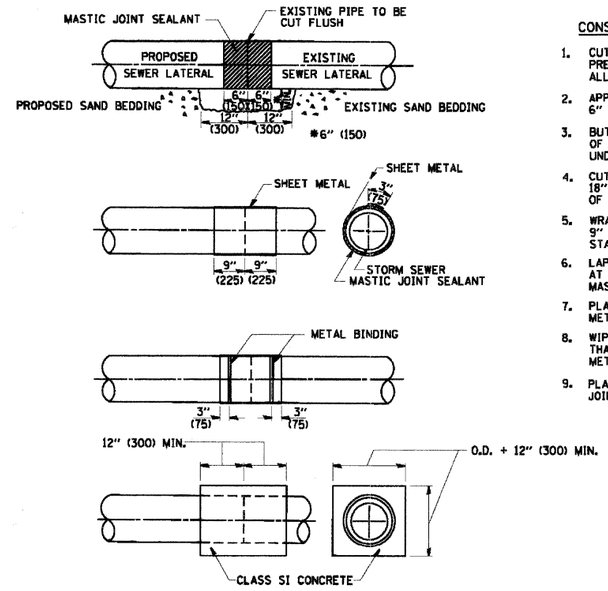
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\distatd\22x34\bd03.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OUTLET FOR CONCRETE CURB AND GUTER				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. SHAH 10-25-94						336	04-00325-00-TL	KANE	54	33
	PLOT SCALE = 50.2000 ' / IN.	CHECKED -	REVISED - E. GOMEZ 12-21-00						BD600-01 (BD-03)		CONTRACT NO. 63547		
	PLOT DATE = 1/4/2008	DATE - 08-04-86	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER

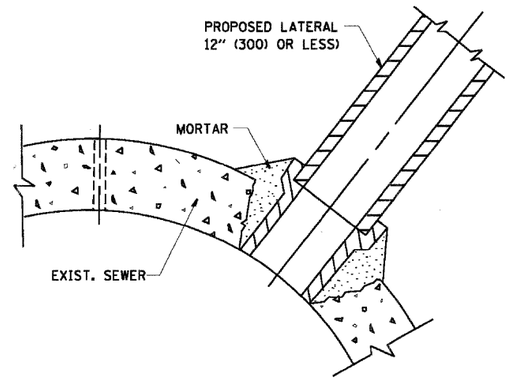


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".

B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

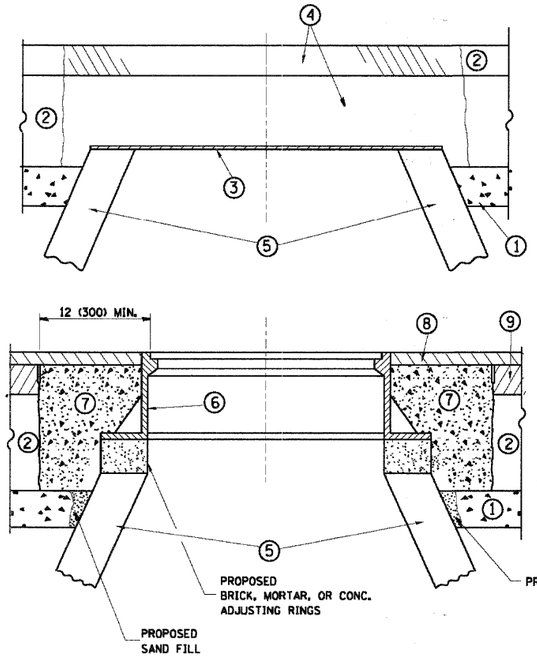
FILE NAME = W:\distsd\22x34\bd07.dgn	USER NAME = gaglenobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
		DRAWN -	REVISED - R. SHAH 09-09-94
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	34
	BD500-01 (BD-7)	CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.

C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

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

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

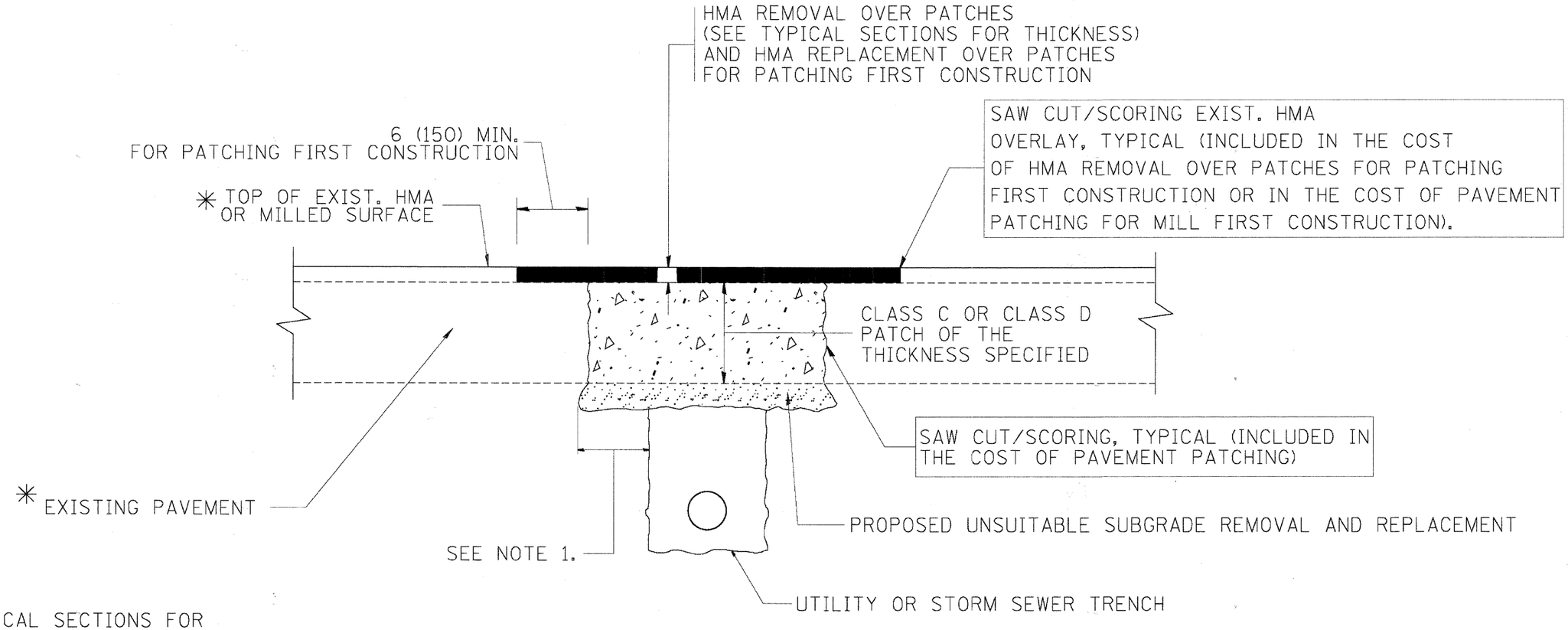
FILE NAME = W:\diststd\22x34\bd08.dgn	USER NAME = gaglianobt	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04
	PLOT DATE = 1/4/2008	DATE - 10-25-94	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	35
	BD600-03 (BD-8)	CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

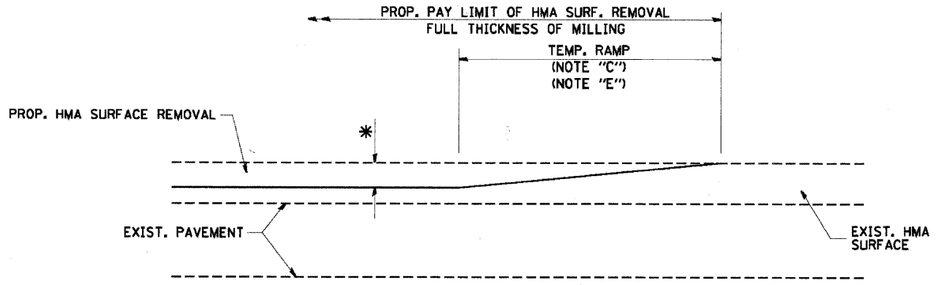
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ 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.

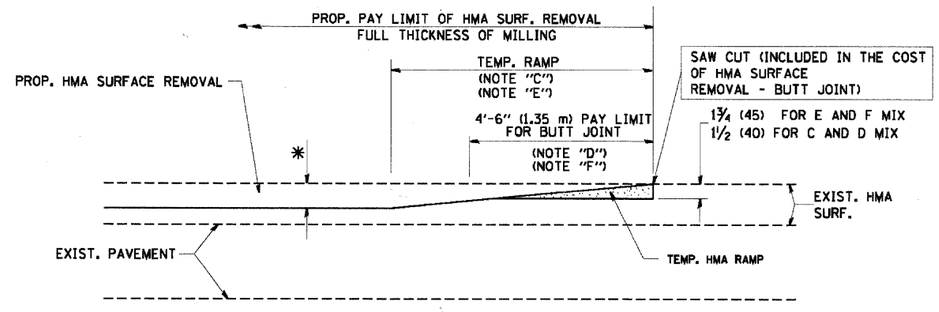
FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED - R. BORO 01-01-07					336	04-00325-00-TL	KANE	54 / 36
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07						BD400-04 (BD-22)	CONTRACT NO. 63547	
	PLOT DATE = 12/27/2008	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

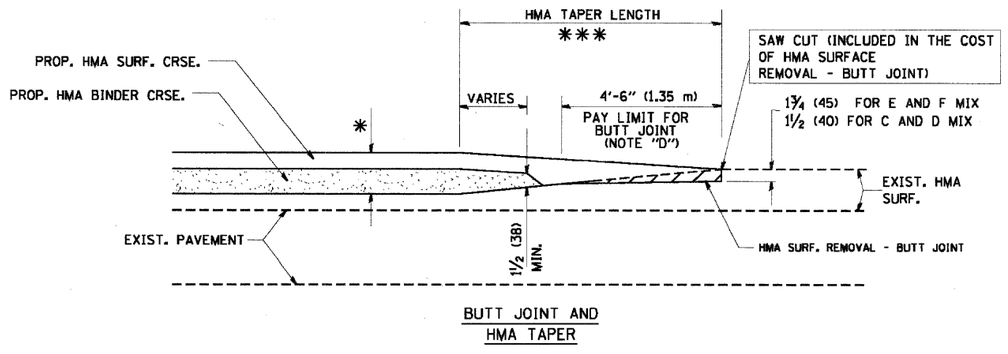


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

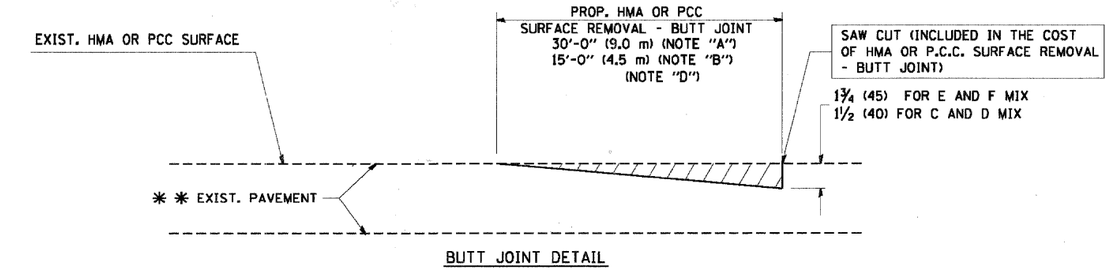
OPTION 2

TYPICAL TEMPORARY RAMP

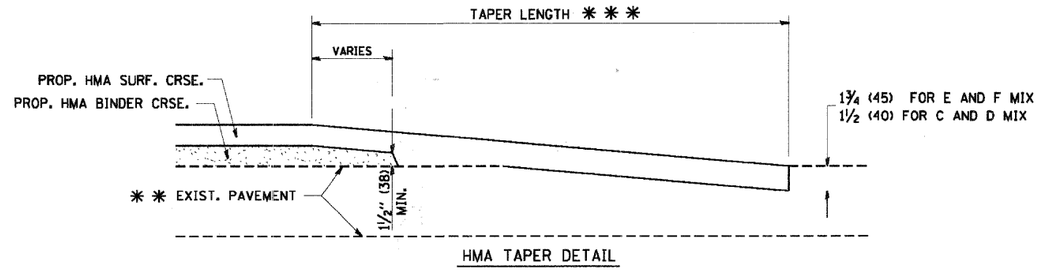


BUTT JOINT AND HMA TAPER

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.

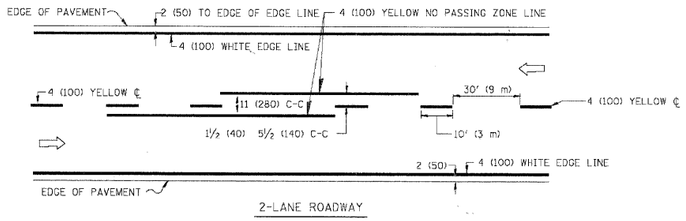
FILE NAME = W:\distata\22x34\bd32.dgn	USER NAME = gaqltanobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2020	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

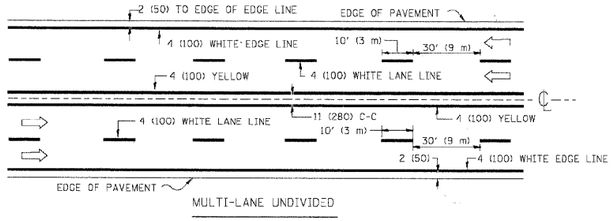
BUTT JOINT AND HMA TAPER DETAILS

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

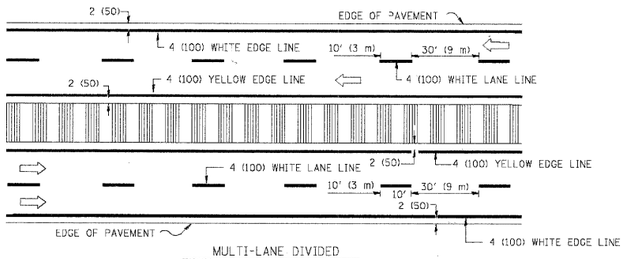
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	37
	BD400-05 BD32	CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



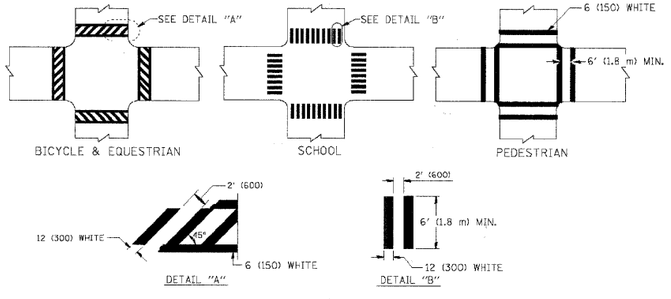
MULTI-LANE UNDIVIDED



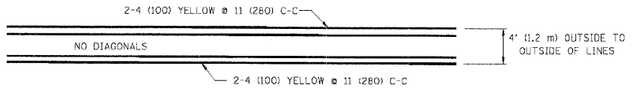
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

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

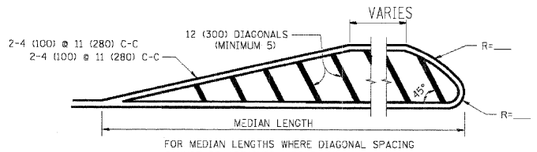
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



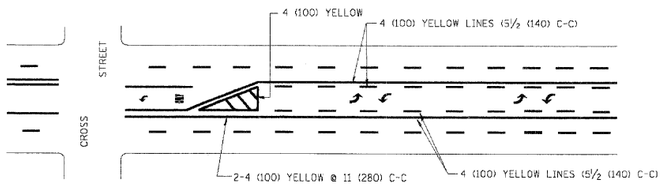
4' (1.2 m) WIDE MEDIANS ONLY



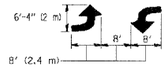
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

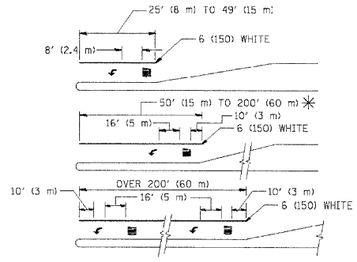


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

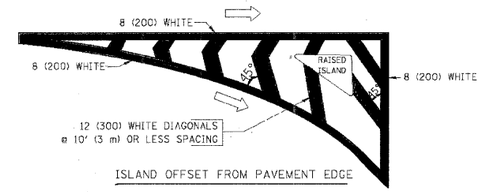


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

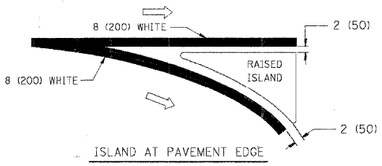
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

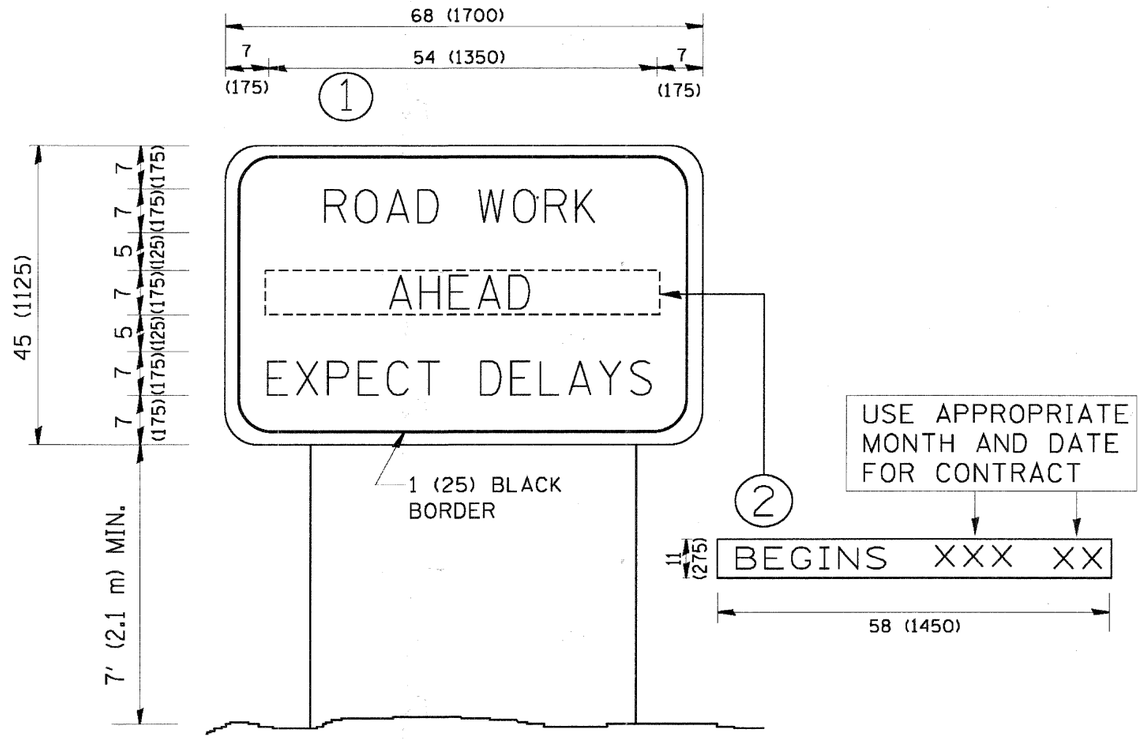
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE 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; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 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 = o:\pw_work\pwidot\drivakosgn\d0108315\tc13.dgn	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**
	PLOT SCALE = 50.000 ' / IN.	DRAWN -	REVISED -C. JUCIUS 09-09-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.
	PLOT DATE = 9/9/2009	CHECKED -	REVISED -		
		DATE - 03-19-90	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	38
	TC-13	CONTRACT NO. 63547		
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 = W:\diststd\22x34\tc22.dgn	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.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	39
	TC-22	CONTRACT NO. 63547		
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.

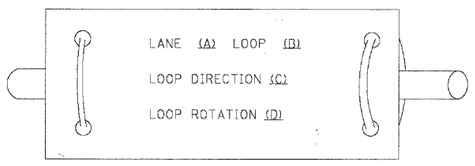
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

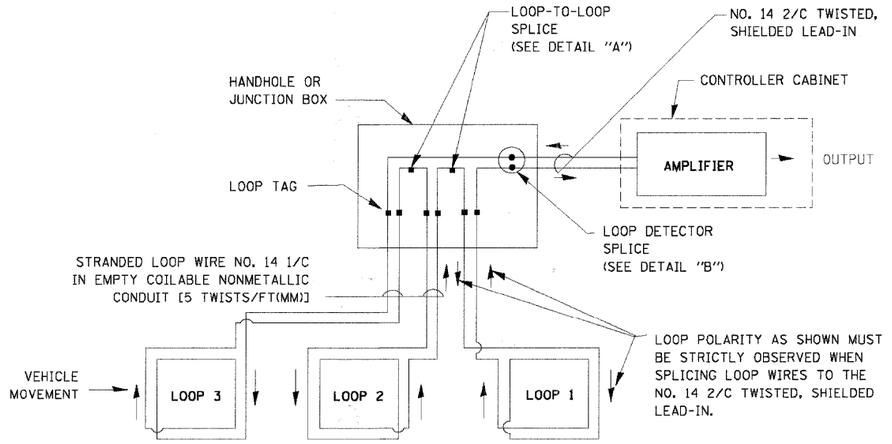


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

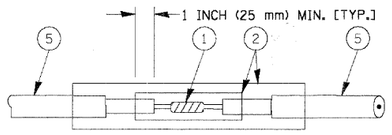
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

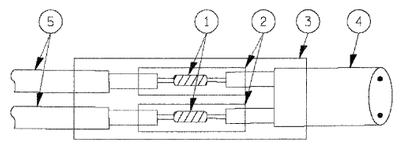


DETECTOR LOOP WIRING SCHEMATIC

- 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.

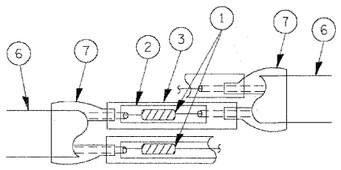


DETAIL "A"
LOOP-TO-LOOP SPLICE



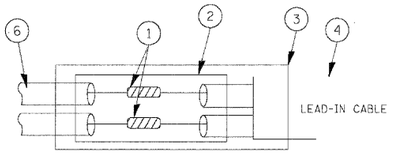
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 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 = c:\pw_work\PWIDOT\BAUEROL\d0128315\ts05.dgn	USER NAME = bauerdl	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
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	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

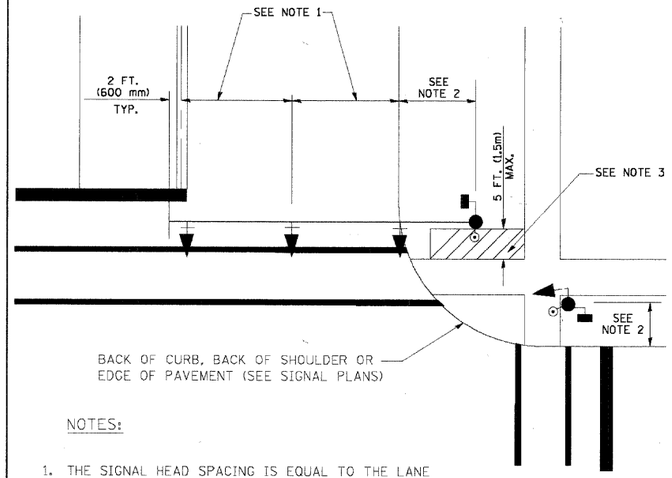
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	40
	TS-05	CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

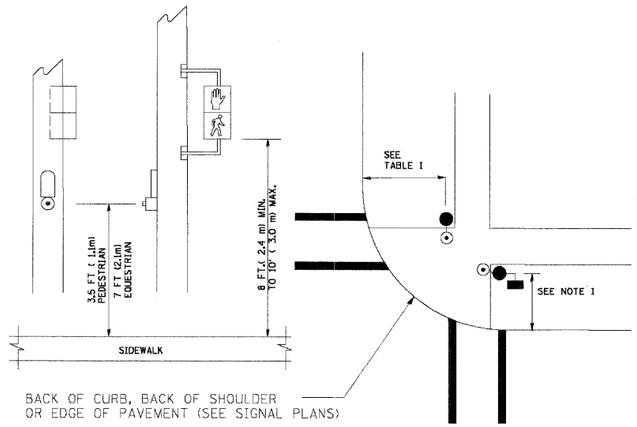
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

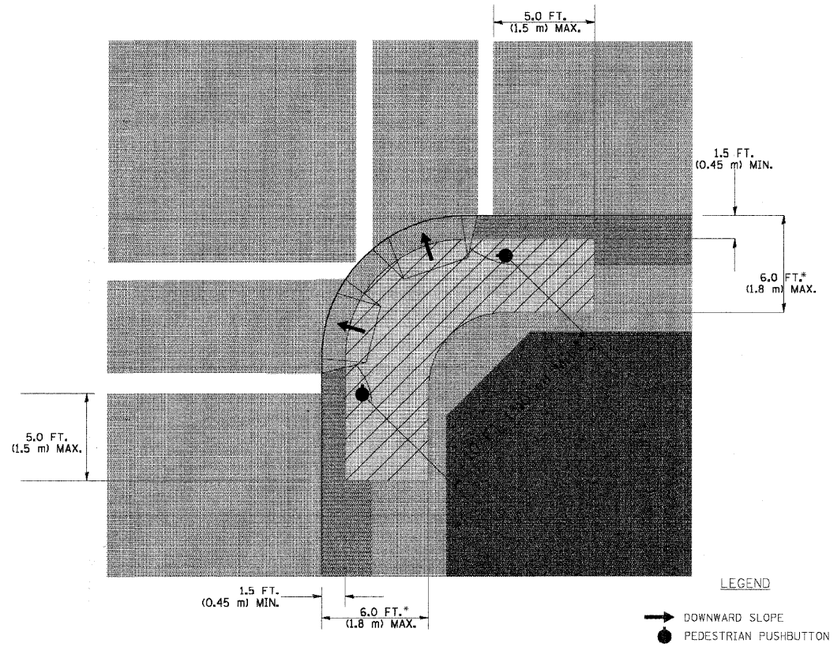
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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.

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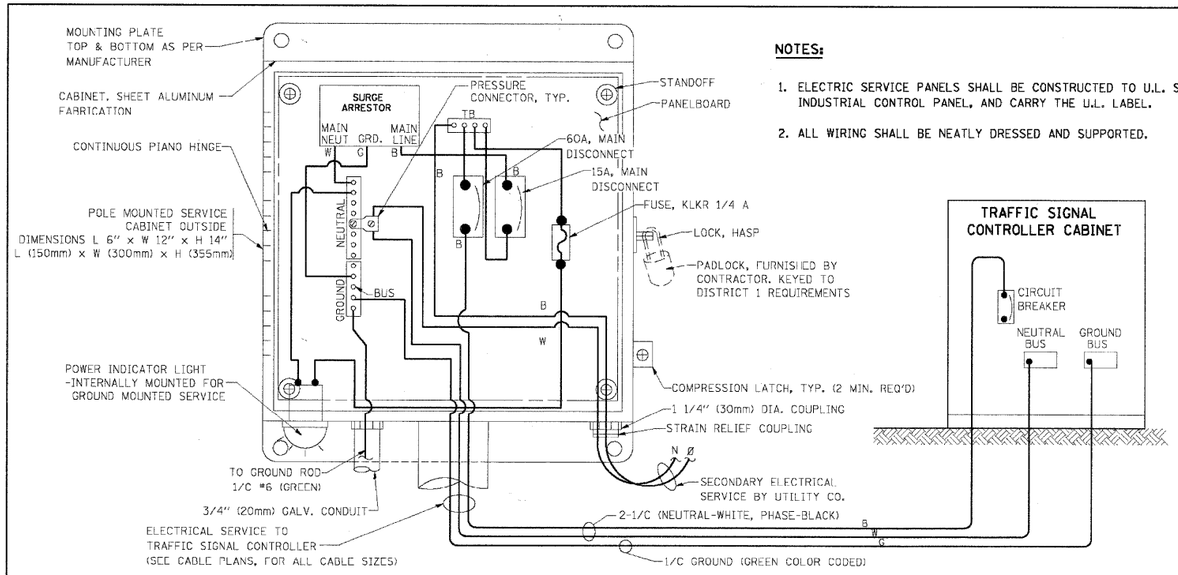
		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	41
	TS-05	CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



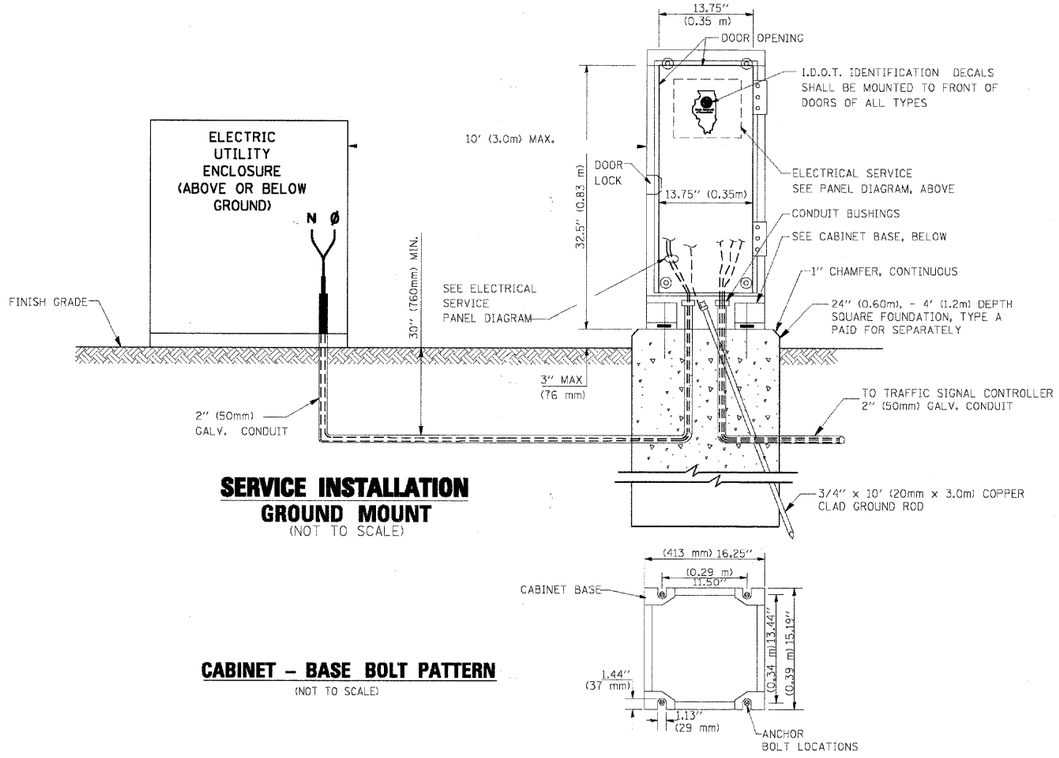
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

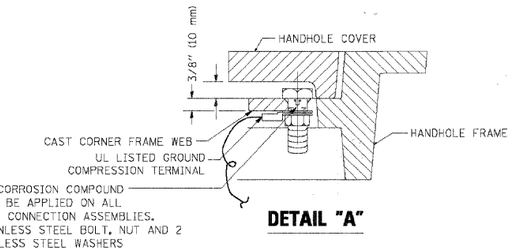


SERVICE INSTALLATION GROUND MOUNT

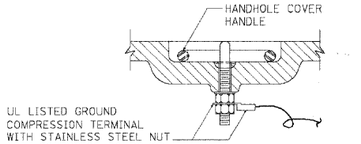
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

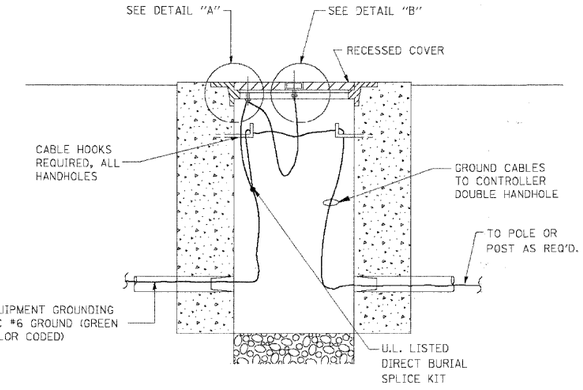
(NOT TO SCALE)



DETAIL "A"

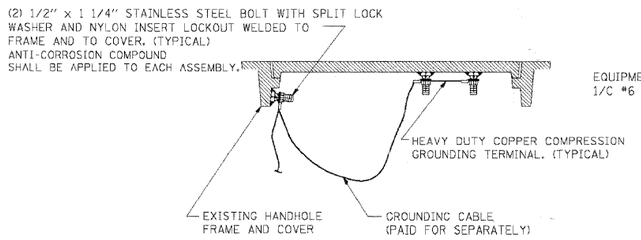


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



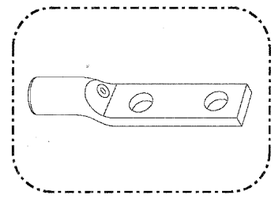
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

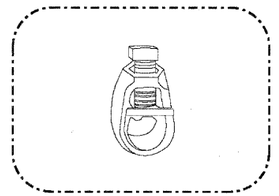
NOTES:

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.



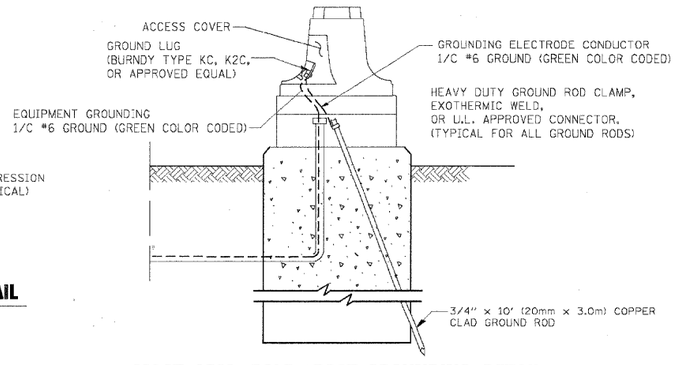
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

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.



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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		DRAWN - BCK	REVISED -
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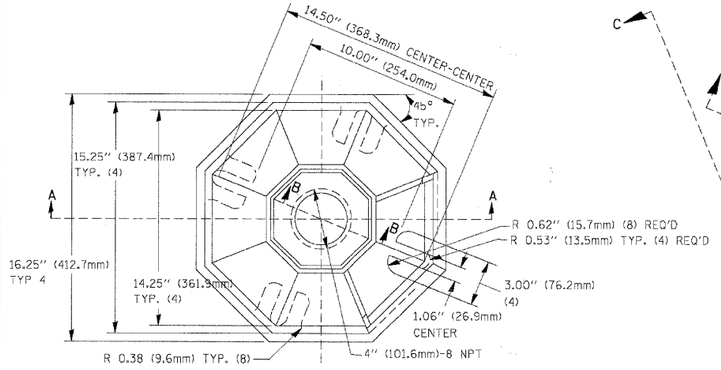
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

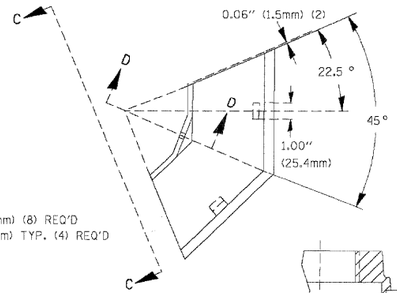
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

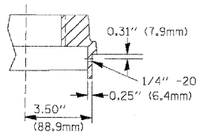
SCALE: NONE | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	42
	TS-05	CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

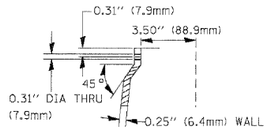


TOP VIEW

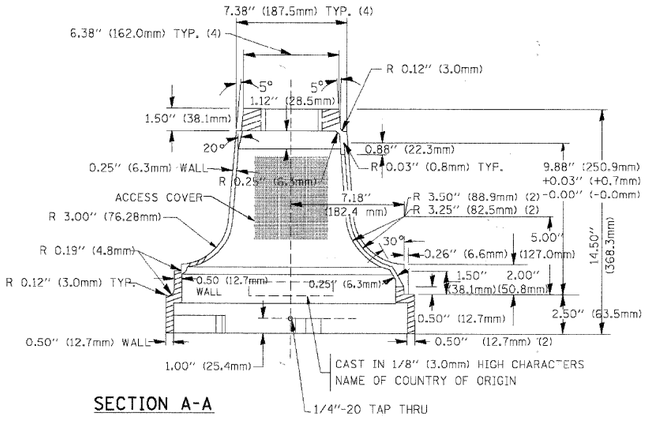




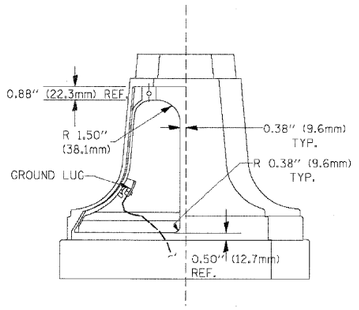
SECTION B-B



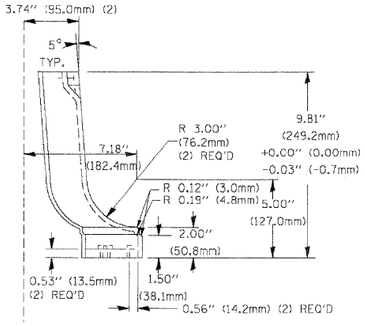
SECTION D-D



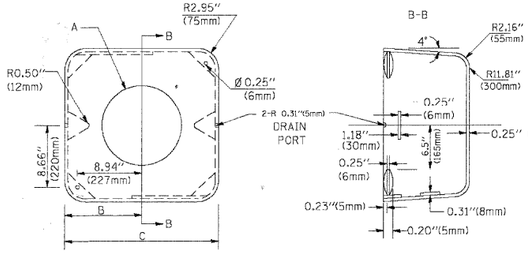
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



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

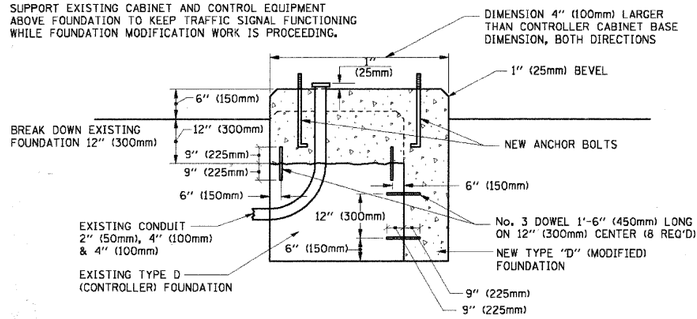
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

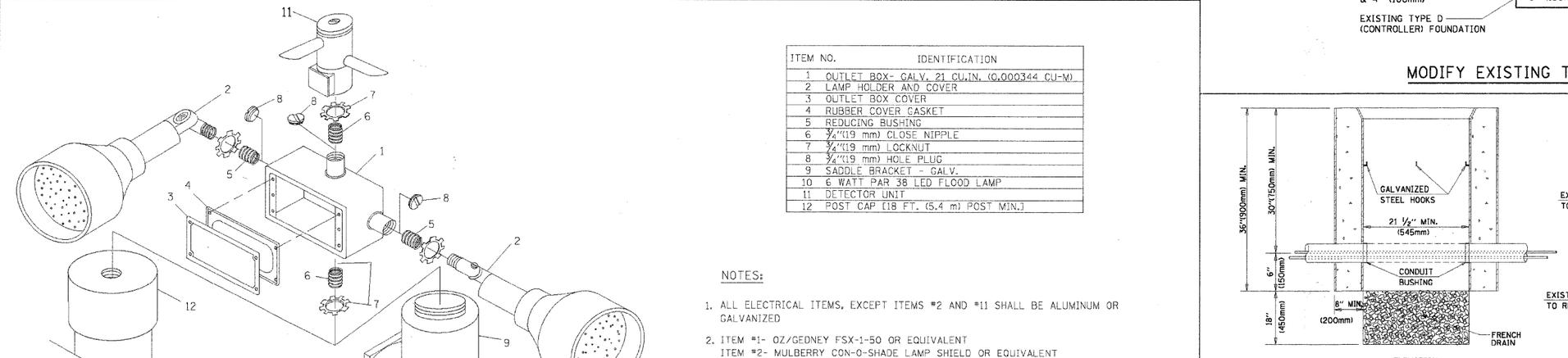
NOTES:

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



POST CAP MOUNT

MAST ARM MOUNT

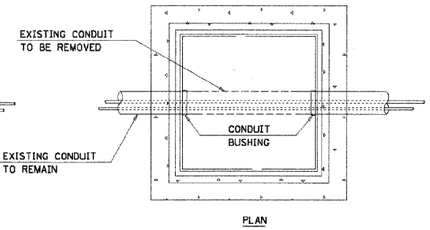
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(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 ¾"(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.

ELEVATION



PLAN

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 INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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		DRAWN - BCK	REVISED -
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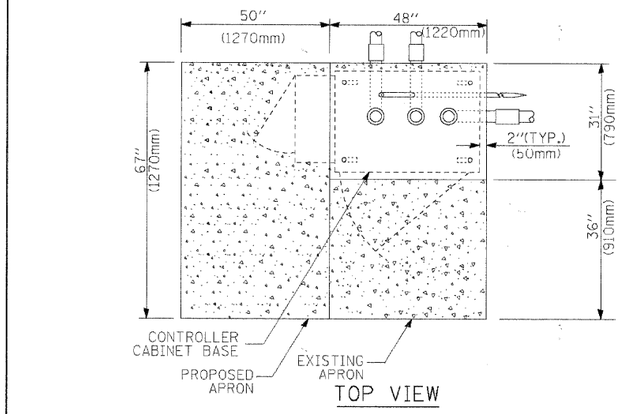
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

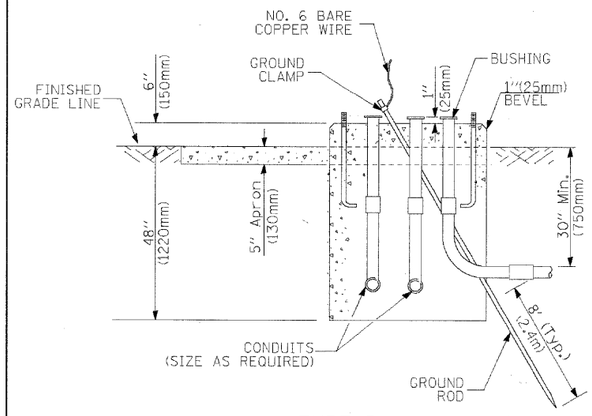
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

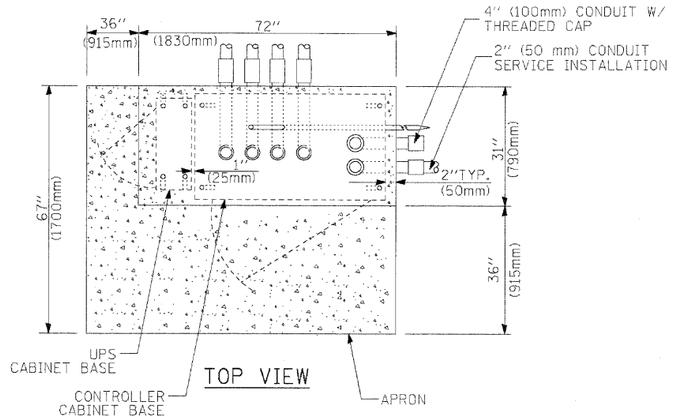
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	43
	TS-05	CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



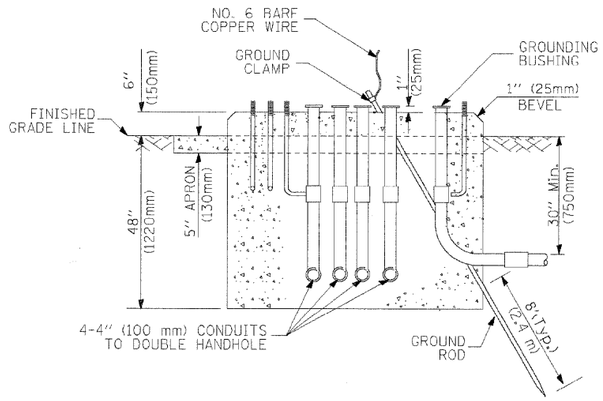
TOP VIEW



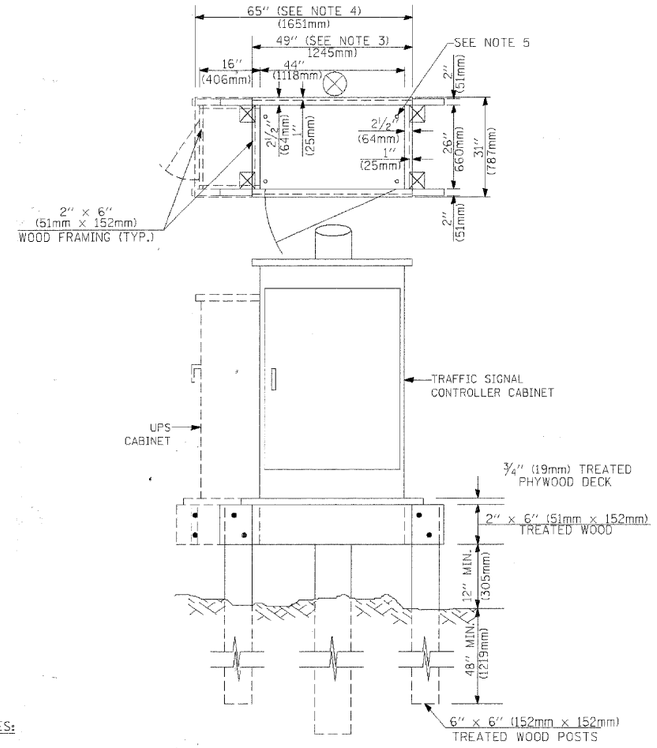
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TOP VIEW



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



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)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	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

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	PLOT SCALE = 50.0000 ' / IN.	DRAWN - BCK	REVISED -
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		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	44
	TS-05	CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET			
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	H		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G Y G	R Y G Y G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G Y G "P"	R Y G Y G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET	R R	R R
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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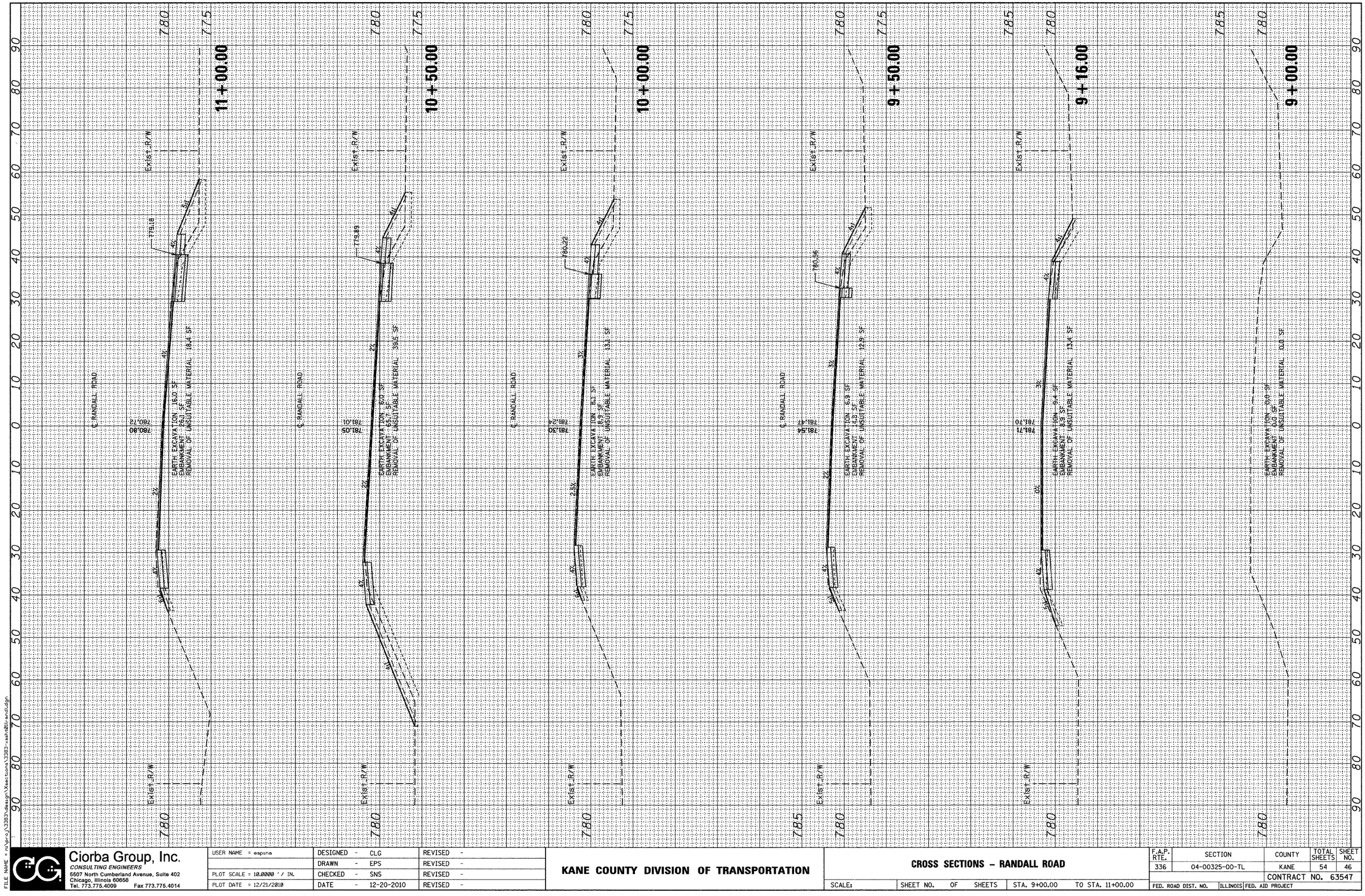
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	45
	TS-05	CONTRACT NO. 63547		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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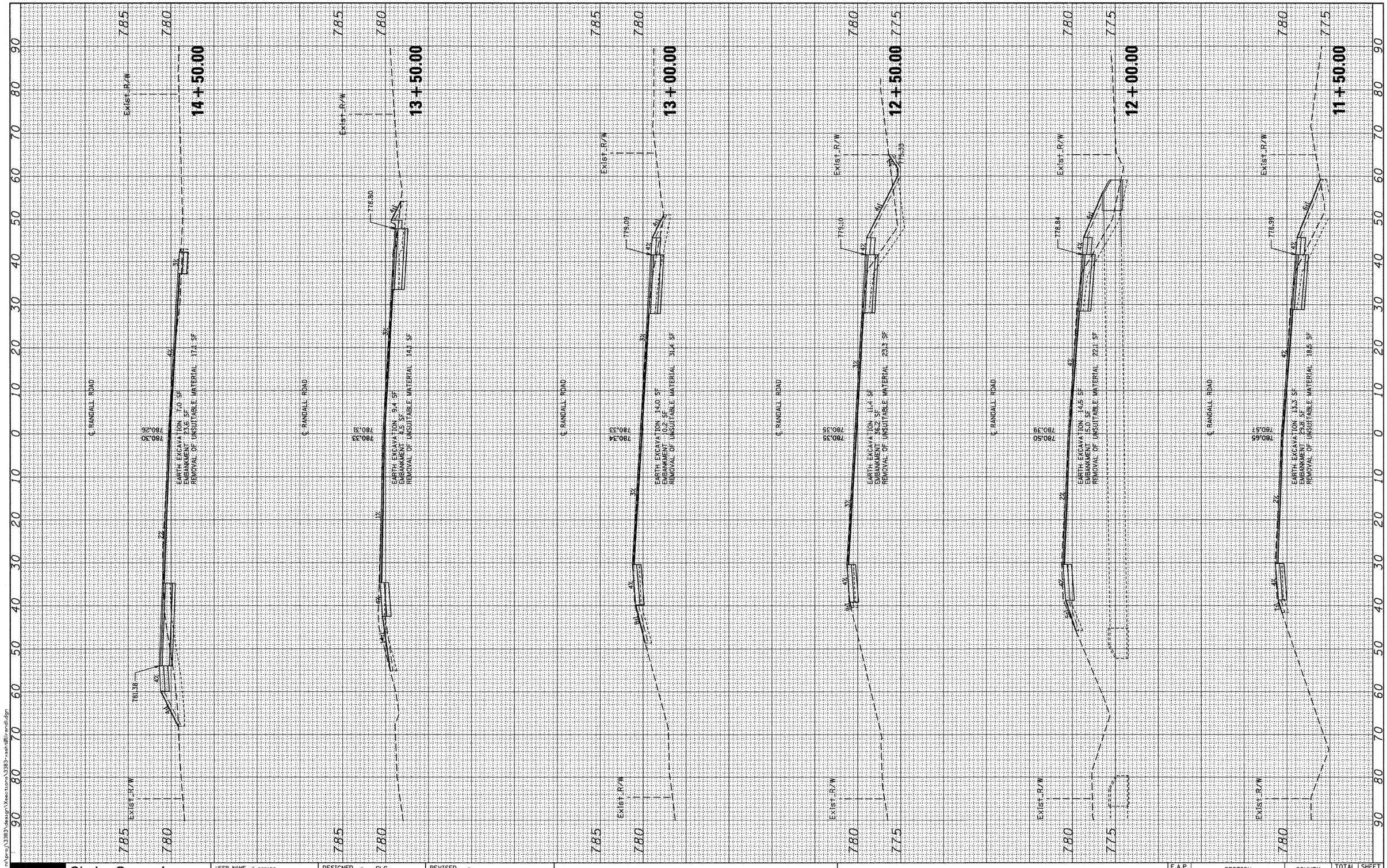
KANE COUNTY DIVISION OF TRANSPORTATION

CROSS SECTIONS - RANDALL ROAD

SCALE: | SHEET NO. OF SHEETS | STA. 9+00.00 TO STA. 11+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	46
		CONTRACT NO. 63547		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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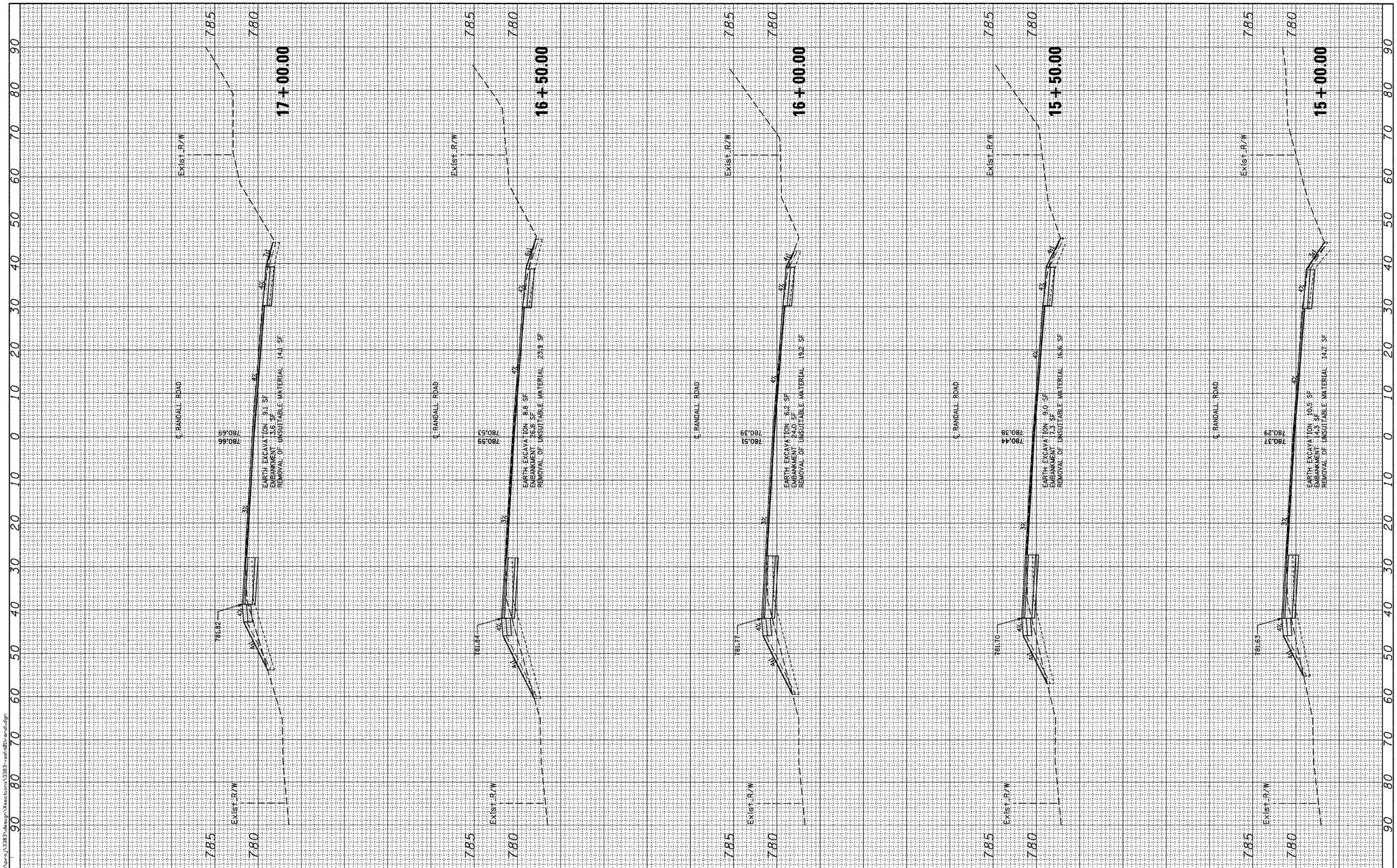
PLOT DATE = 12/21/2010	DATE - 12-20-2010	REVISED -	

KANE COUNTY DIVISION OF TRANSPORTATION

CROSS SECTIONS - RANDALL ROAD

SCALE: | SHEET NO. OF SHEETS | STA. 11+50.00 TO STA. 14+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	47
		CONTRACT NO. 63547		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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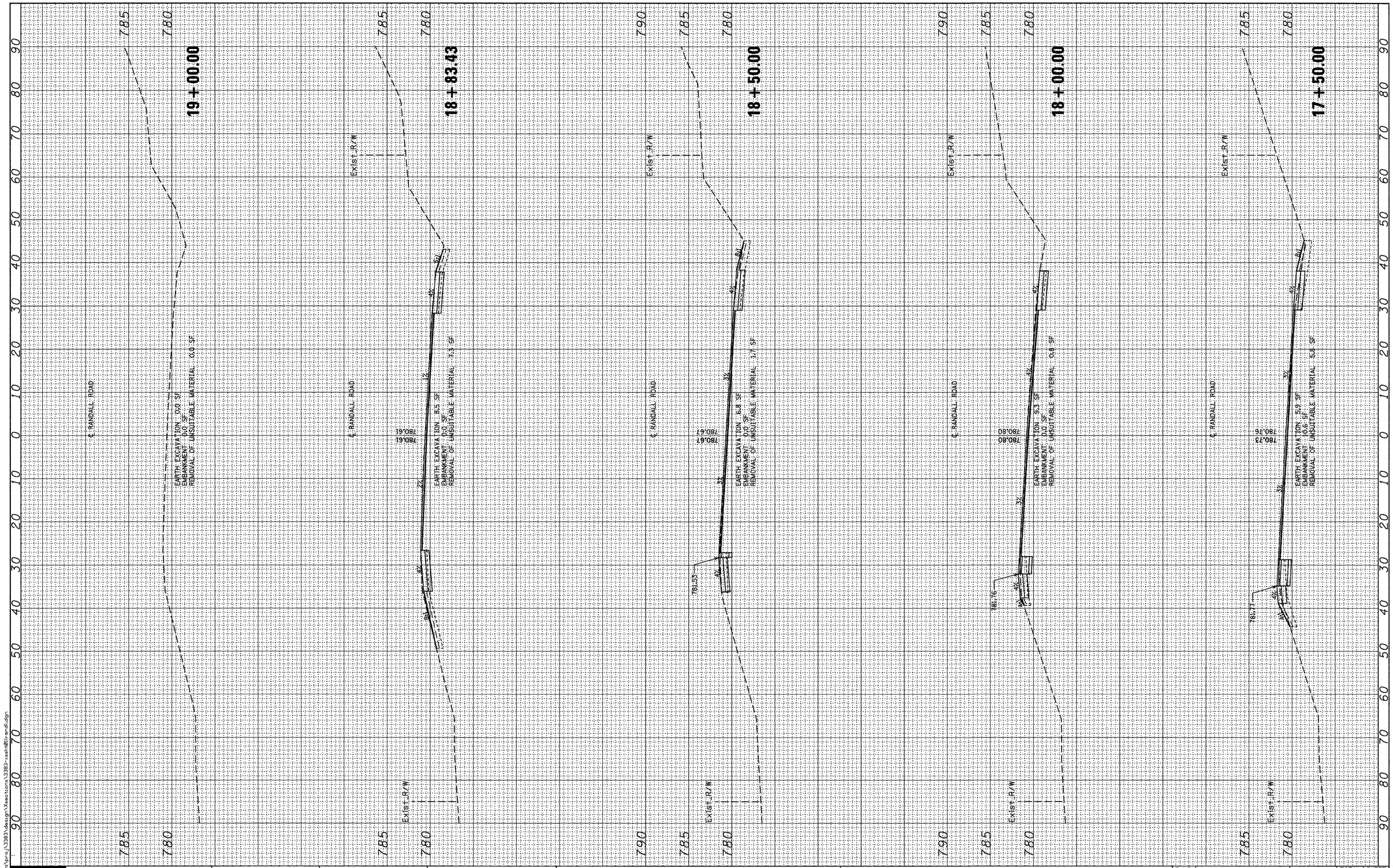
PLOT DATE = 12/21/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

CROSS SECTIONS – RANDALL ROAD

SCALE: | SHEET NO. OF SHEETS | STA. 15+00.00 TO STA. 17+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	48
		CONTRACT NO. 63547		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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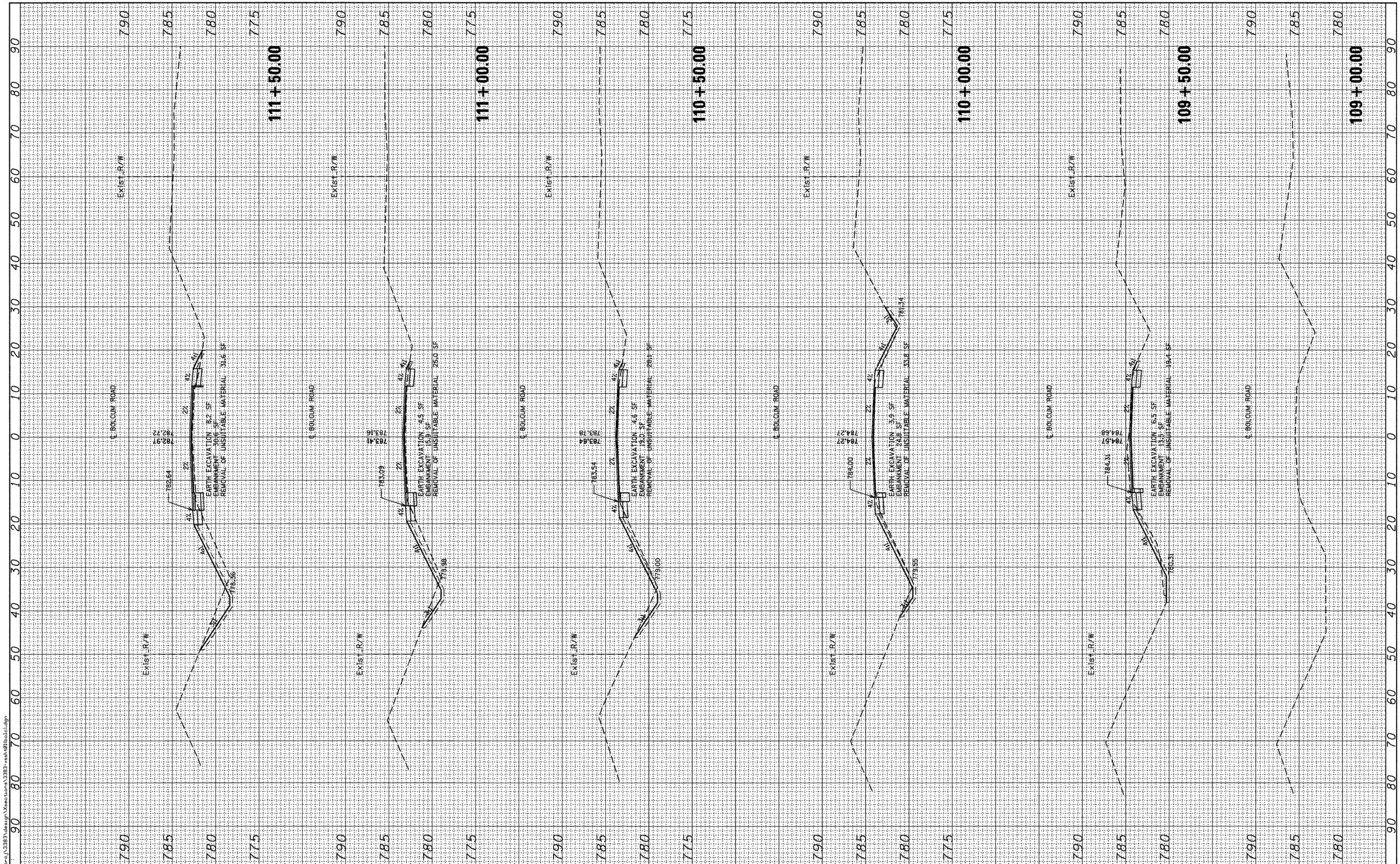
KANE COUNTY DIVISION OF TRANSPORTATION

CROSS SECTIONS – RANDALL ROAD

SCALE: | SHEET NO. OF SHEETS | STA. 17+50.00 TO STA. 19+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	49
		CONTRACT NO. 63547		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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PLOT DATE = 12/21/2010	DATE - 12-20-2010	REVISED -	

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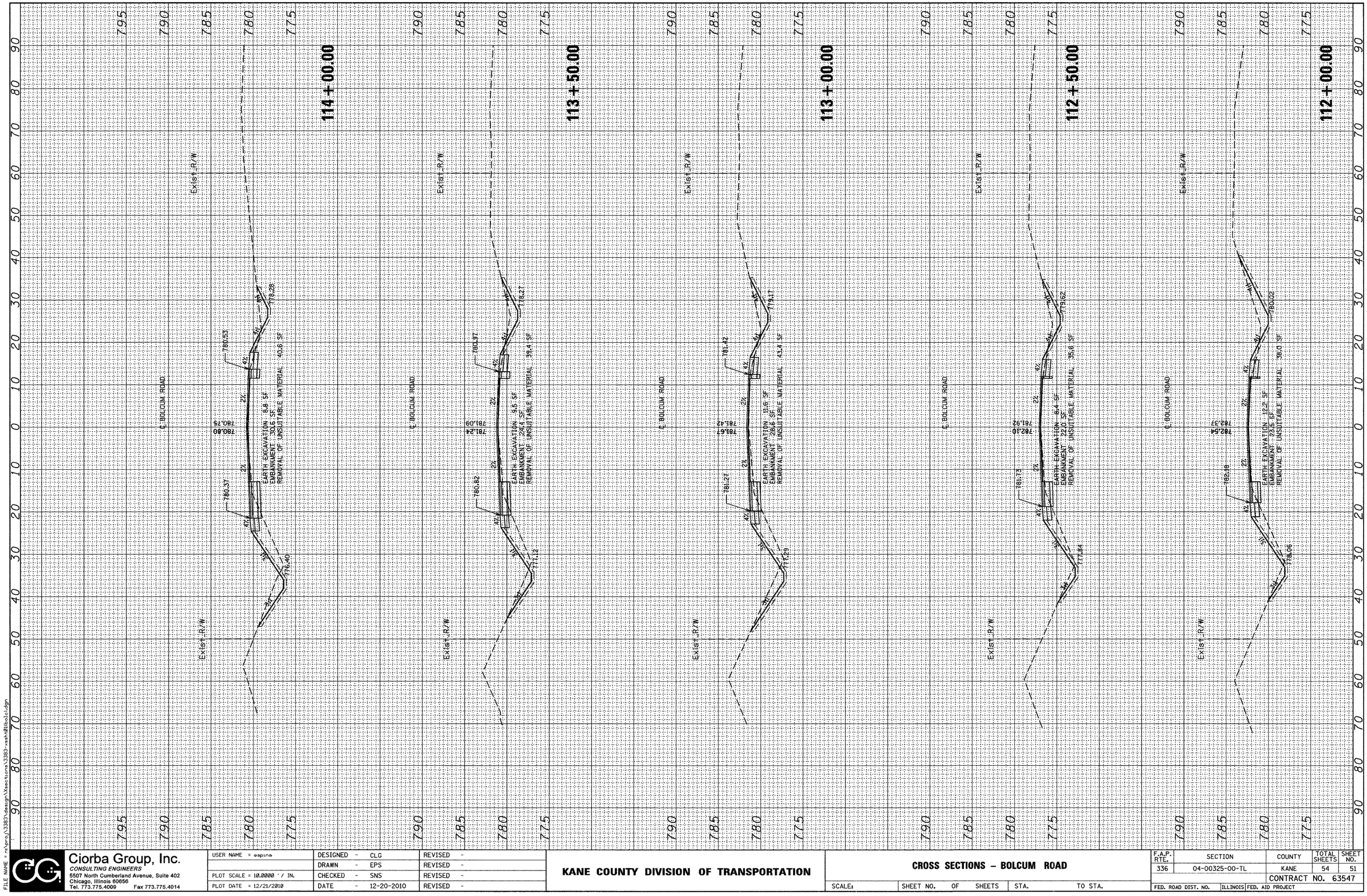
KANE COUNTY DIVISION OF TRANSPORTATION

CROSS SECTIONS – BOLCUM ROAD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA. 10+56.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	50
		CONTRACT NO. 63547		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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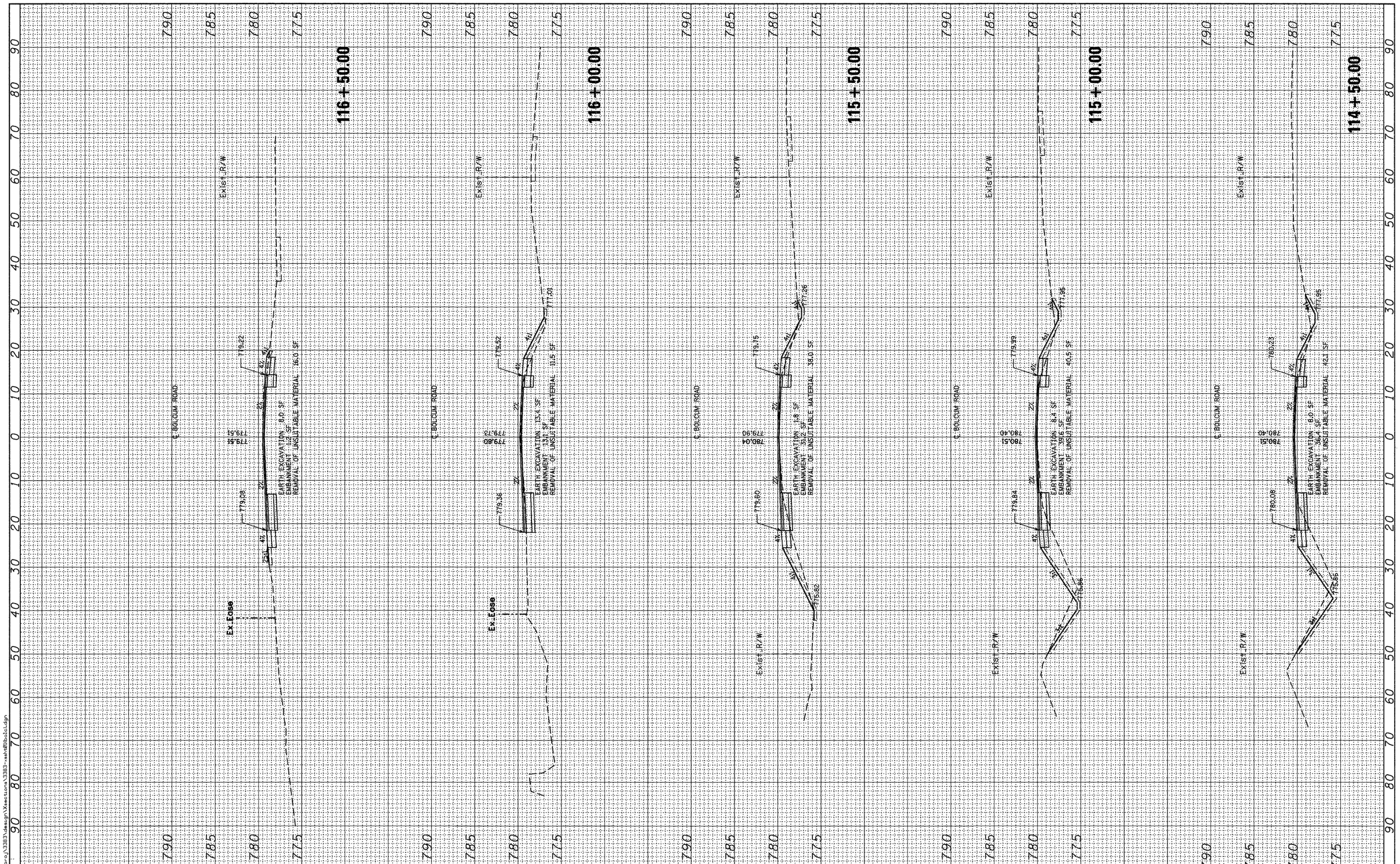
PLOT DATE = 12/21/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

CROSS SECTIONS - BOLCUM ROAD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	51
		CONTRACT NO. 63547		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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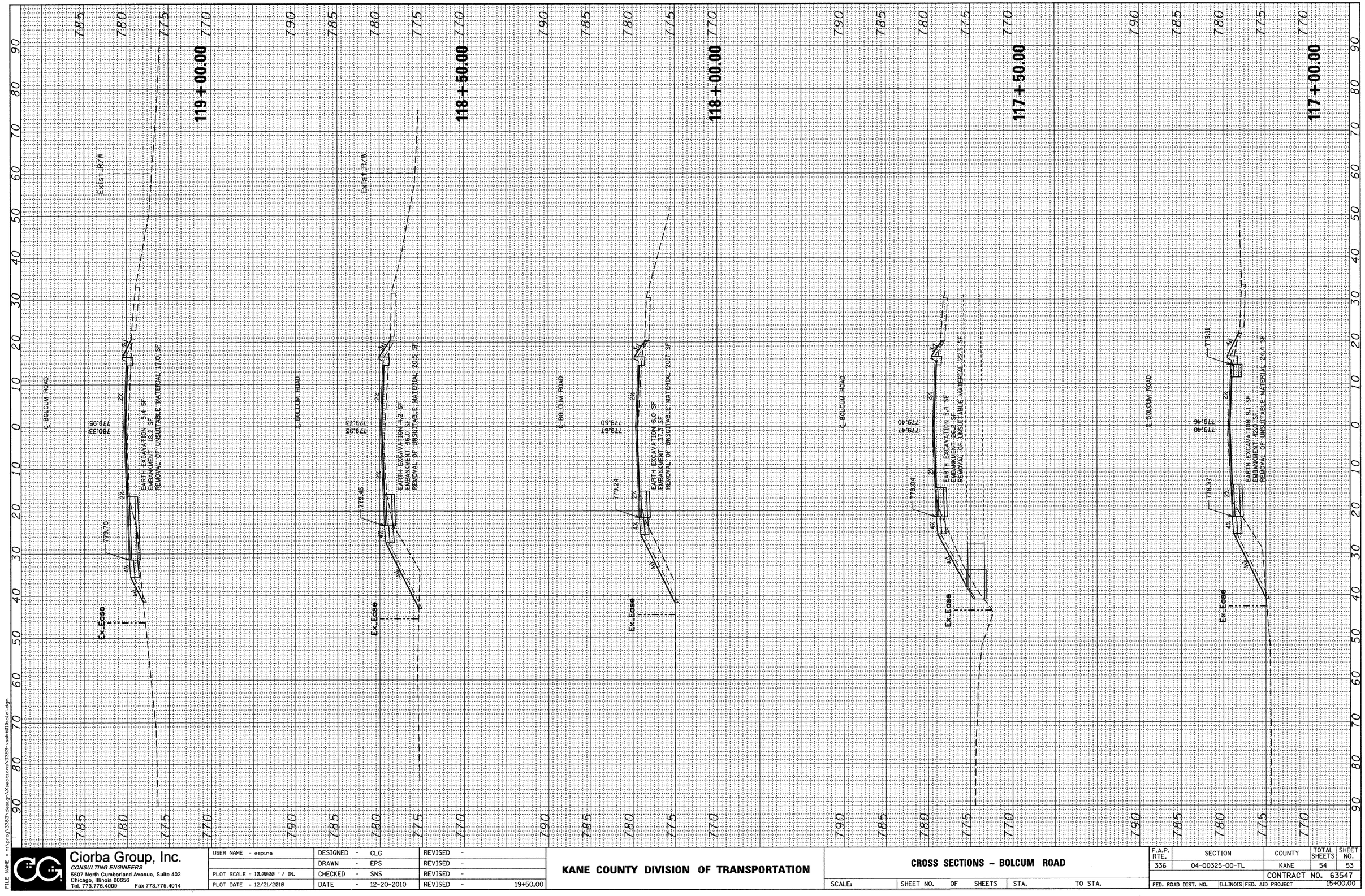
PLOT DATE = 12/21/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

CROSS SECTIONS – BOLCUM ROAD

SCALE: | SHEET NO. 17+00 OF 00 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	52
		CONTRACT NO. 63547		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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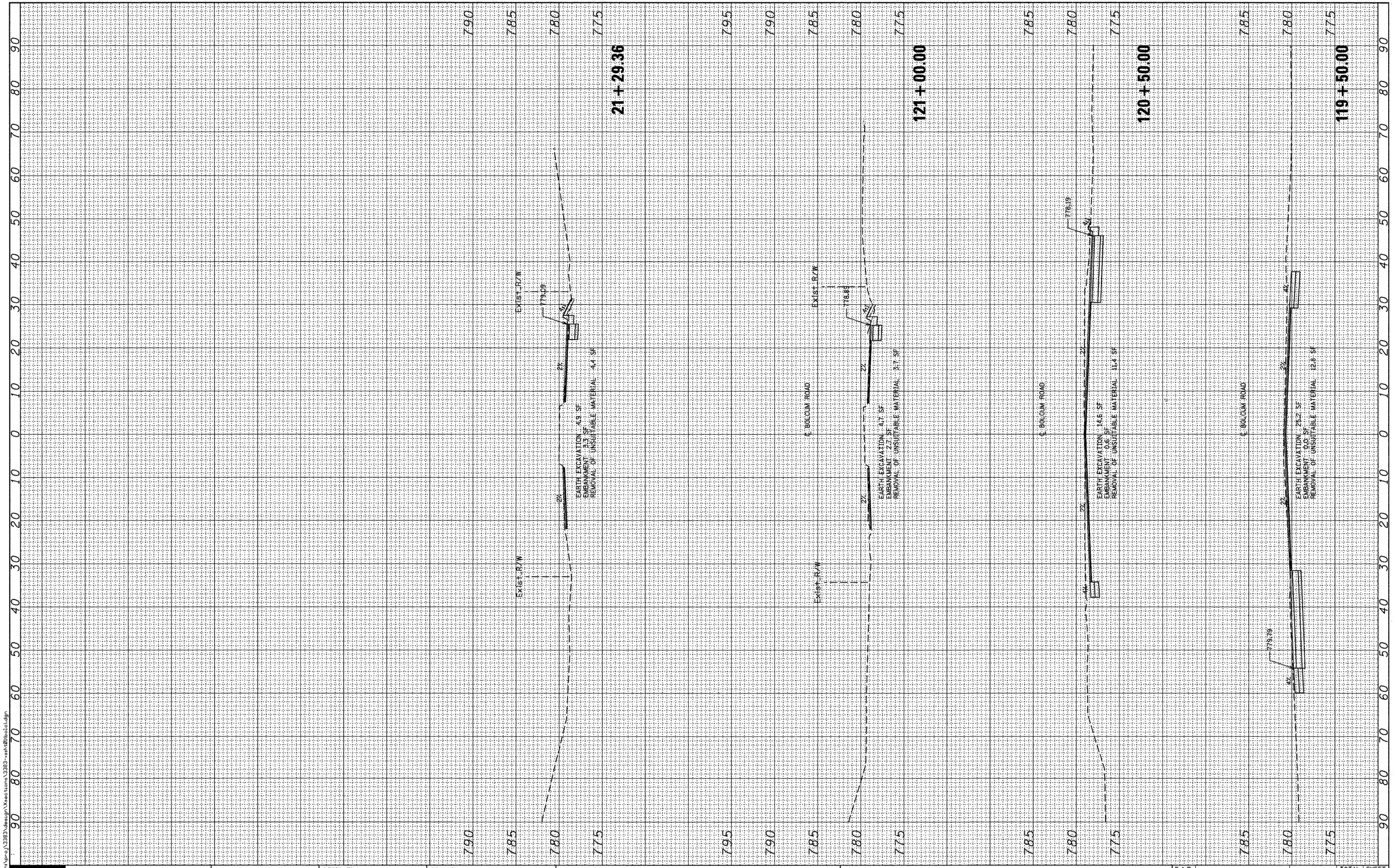
KANE COUNTY DIVISION OF TRANSPORTATION

CROSS SECTIONS – BOLCUM ROAD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	53
		CONTRACT NO. 63547		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		15+00.00



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PLOT DATE = 12/21/2010	DATE - 12-20-2010	REVISED -

KANE COUNTY DIVISION OF TRANSPORTATION

CROSS SECTIONS - BOLCUM ROAD

SCALE: | SHEET NO. OF SHEETS | STA. 20+00.00 TO STA. 22+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00325-00-TL	KANE	54	54
		CONTRACT NO. 63547		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		