

04-24-2015 LETTING ITEM 043

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
LIST OF STATE STANDARDS LOCATED ON  
SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**

F.A.U. ROUTE 1300 (CENTRAL ROAD)  
WOLF ROAD TO EAST RIVER ROAD  
SHOULDER WIDENING FOR BICYCLE LANE  
SECTION NO. 08-00201-00-BT  
PROJECT No.CMM-9003(179)  
CITY OF DES PLAINES  
COOK COUNTY  
C-91-219-09

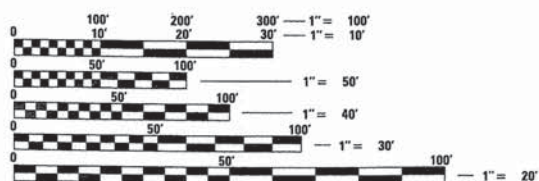
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	08-00201-00-BT	COOK	58	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 63210	

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



**TRAFFIC DATA**

CENTRAL ROAD  
ADT (2010) = 15,800  
SPEED LIMIT = 35-45 MPH  
ADT (2030) = 22,000  
MINOR ARTERIAL



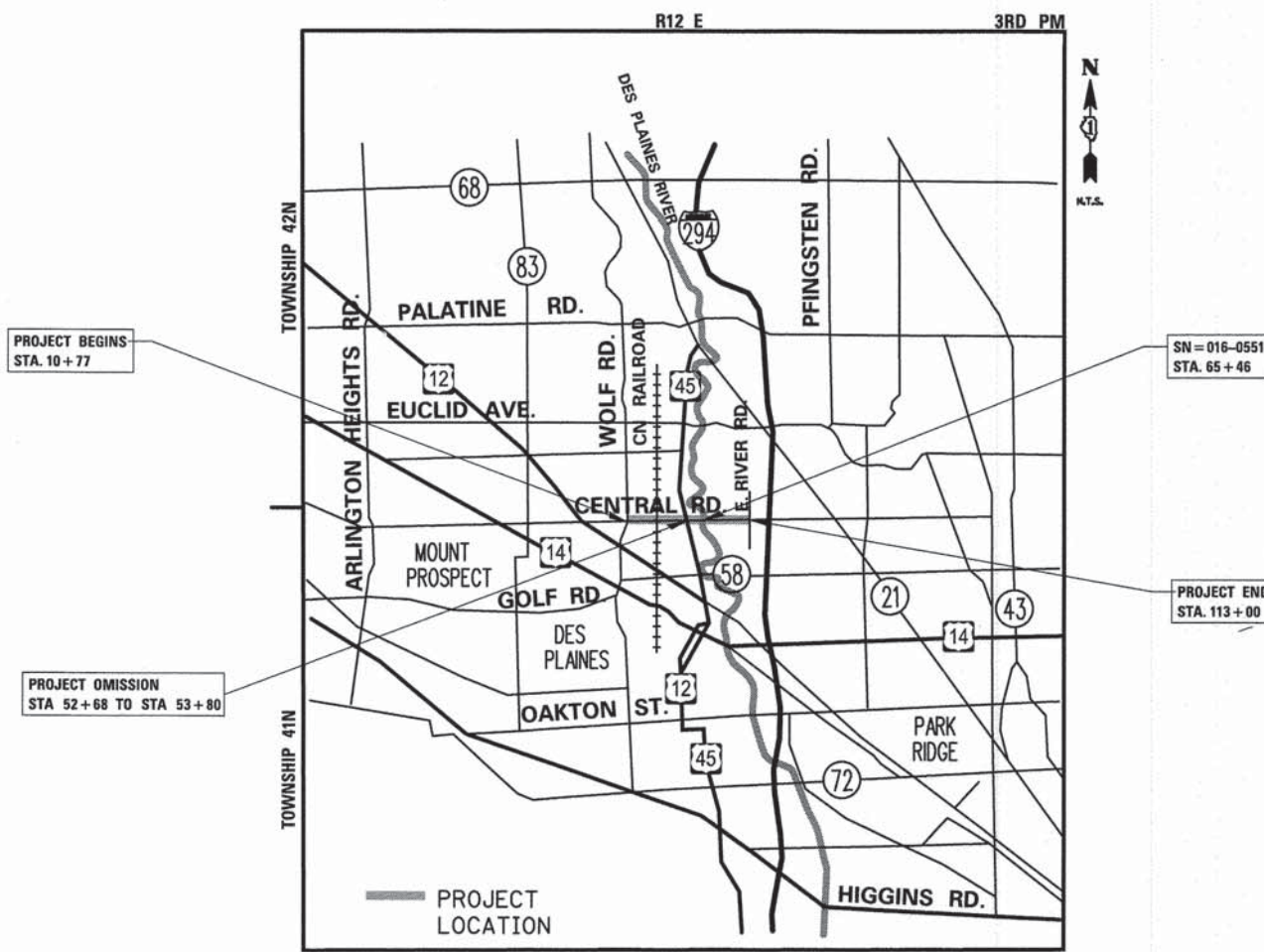
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
8-1-1 OR 1-800-892-0123



CONSULTING ENGINEERS  
SITE DEVELOPMENT ENGINEERS  
LAND SURVEYORS

9575 W. Higgins Road, Suite 700,  
Rosemont, Illinois 60018  
Phone: (847) 696-4060 Fax: (847) 696-4065



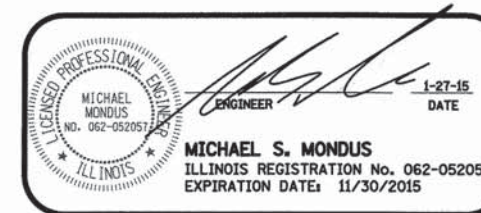
**LOCATION MAP**  
CENTRAL ROAD  
GROSS LENGTH OF PROJECT = 10,223 FEET (1.94 MILES)  
NET LENGTH OF PROJECT = 10,087 FEET (1.91 MILES)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED Jan 26 2015  
*[Signature]*  
CITY ENGINEER, CITY OF DES PLAINES

PASSED February 9 2015  
*[Signature]*  
DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW February 9 2015  
*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER



CONTRACT NO. 63210

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

**GENERAL NOTES:**

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
2. THE CONTRACTOR WILL NOT BE ABLE TO SET UP A STORAGE AREA OR FIELD OFFICE ON PUBLIC RIGHT OF WAY WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
3. THE RESIDENT ENGINEER SHALL CONTACT THE NORTH COOK COUNTY AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.
4. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
5. DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
6. ALL SAW CUTTING SHALL BE INCLUDED TO REMOVE ITEMS AND SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL. ANY ITEMS OF WORK REMOVED PRIOR TO SAW CUTTING WILL NOT BE MEASURED FOR PAYMENT.
7. THE THICKNESS OF HOT MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASIS ON WHICH THEY ARE TO BE PLACED. PLAN THICKNESS SHOULD BE CONSIDERED THE MINIMUM THICKNESS PERMITTED.
8. DEPRESSED CURB: RAMPS OR DEPRESSED CURBS ACCESSIBLE TO THE HANDICAPPED SHALL BE PROVIDED AT ALL CROSSWALKS AND BICYCLE PATHS. NON-ADA DEPRESSED CURB SHALL BE PROVIDED AT ALL ALLEYS OR DRIVEWAYS, WHICH DO NOT CONTAIN TRAFFIC CONTROL SIGNS.
9. PAVEMENT GRADES: THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.
10. THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF TRAFFIC BARRIER TERMINAL TYPE 1B.
11. ONLY THOSE TREES DESIGNATED BY THE ENGINEER SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
12. ALL BRUSH CLEARING AND RIGHT OF WAY RESTORATION TO PRE-CONSTRUCTION CONDITIONS SHALL BE COMPLETED BY THE CONTRACTOR AND INCLUDED IN THE COST OF TREE REMOVAL (20100110).
13. ANY DAMAGE TO DRIVEWAYS AND ENTRANCES CAUSED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE COST OF DRIVEWAY PAVEMENT HMA SURFACE COURSE 2", (40603335) OVER HMA BASE COURSE 6"/8" (35501308/35501316).
14. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE CN RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE CN RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.

**HIGHWAY STANDARDS**

STANDARD NUMBER	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN TYPE A
602301-04	INLET TYPE A
604036-03	GRATE TYPE 8
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
631006-08	TRAFFIC BARRIER TERMINAL, TYPE 1B
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS 45 MPH
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS DAY ONLY ≥
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS 45 MPH
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS

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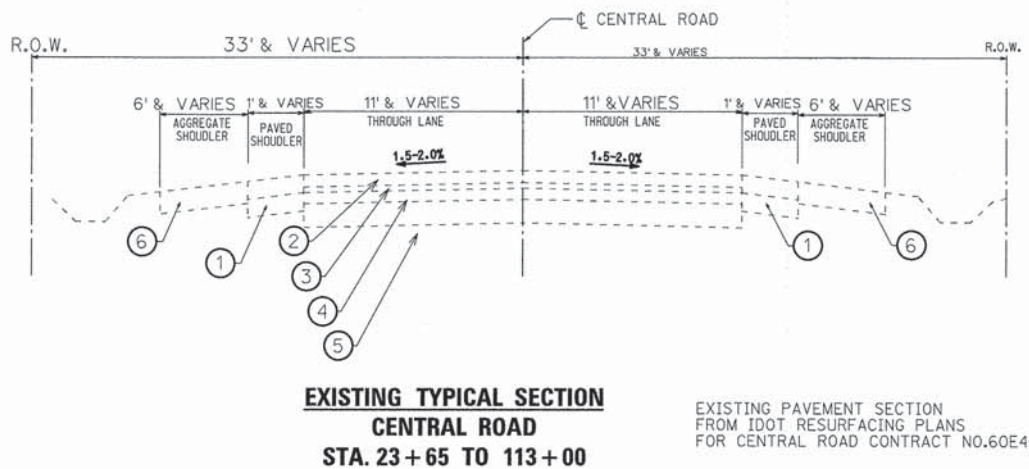
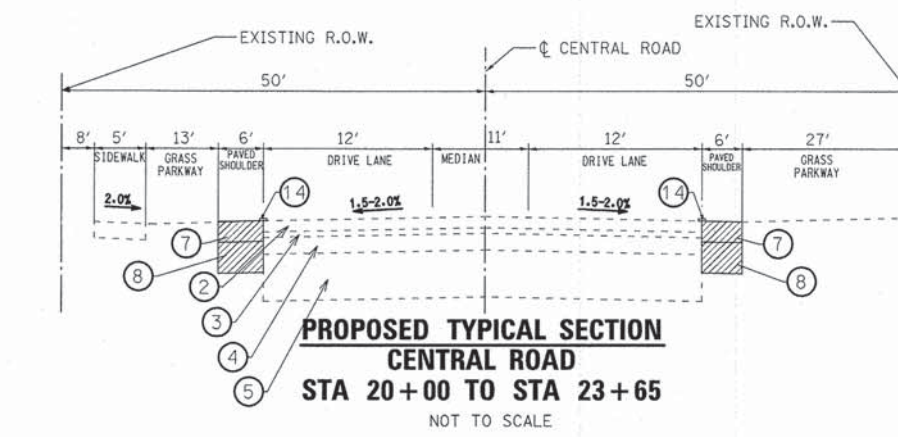
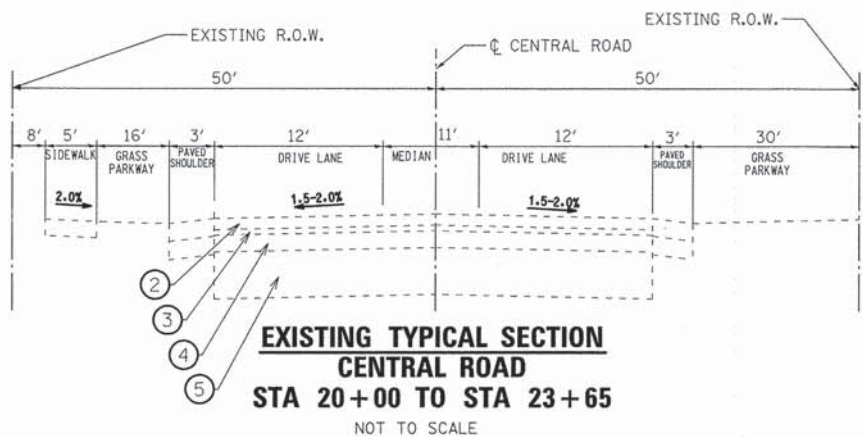
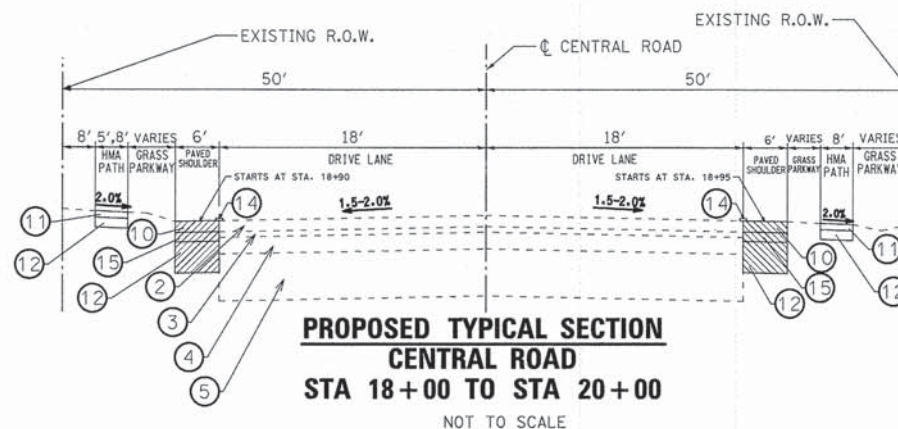
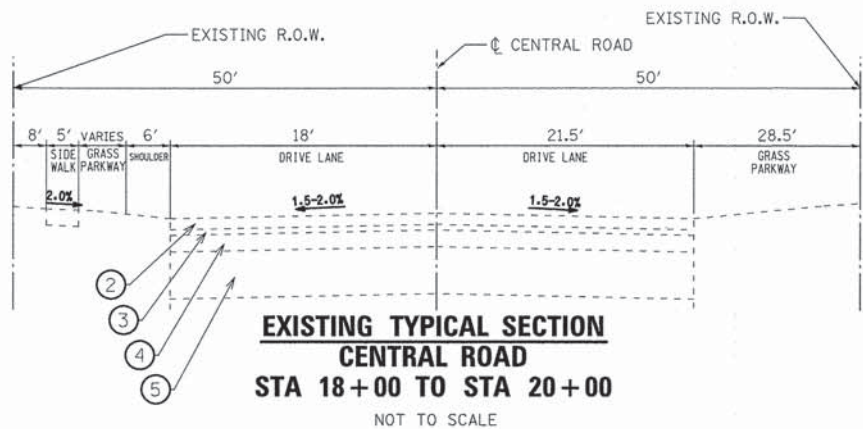
**SUMMARY OF QUANTITIES FOR CENTRAL ROAD IMPROVEMENTS**

SI	SP	PAY ITEM CODE	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	200	0028
		20101100	TREE TRUNK PROTECTION	EACH	20	0028
		20200100	EARTH EXCAVATION	CU YD	3,543	0028
		20400800	FURNISHED EXCAVATION	CU YD	150	0028
		20800150	TRENCH BACKFILL	CU YD	20	0028
X		21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1,950	0028
X		25000210	SEEDING, CLASS 2A	ACRE	2.00	0028
X		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	170	0028
X		25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	170	0028
X		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	170	0028
X		25100630	EROSION CONTROL BLANKET	SQ YD	9,050	0028
		28000400	PERIMETER EROSION BARRIER	FOOT	16,975	0028
		28100105	STONE RIPRAP CLASS A3	SQ YD	7	0028
		28200200	FILTER FABRIC	SQ YD	7	0028
		30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	11,350	0028
		35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	1,340	0028
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	6,000	0028
		40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	20	0028
		40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	20	0028
		40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,270	0028
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	10,500	0028
		42400800	DETECTABLE WARNINGS	SQ FT	280	0028
		44000100	PAVEMENT REMOVAL	SQ YD	1,160	0028
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	290	0028
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	110	0028
		44000600	SIDEWALK REMOVAL	SQ FT	6,570	0028
		44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	220	0028
		44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	550	0028
		44213200	SAW CUTS	FOOT	16,450	0028
		48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1,100	0028
		48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	11,350	0028
		54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	0028
		550A0640	STORM SEWERS, CLASS A, TYPE 3 12"	FOOT	80	0028
		56400100	FIRE HYDRANTS TO BE MOVED	EACH	1	0028
		60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	0028
		60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	0028
		60600095	CLASS SI CONCRETE (OUTLET)	CU YD	5	0028

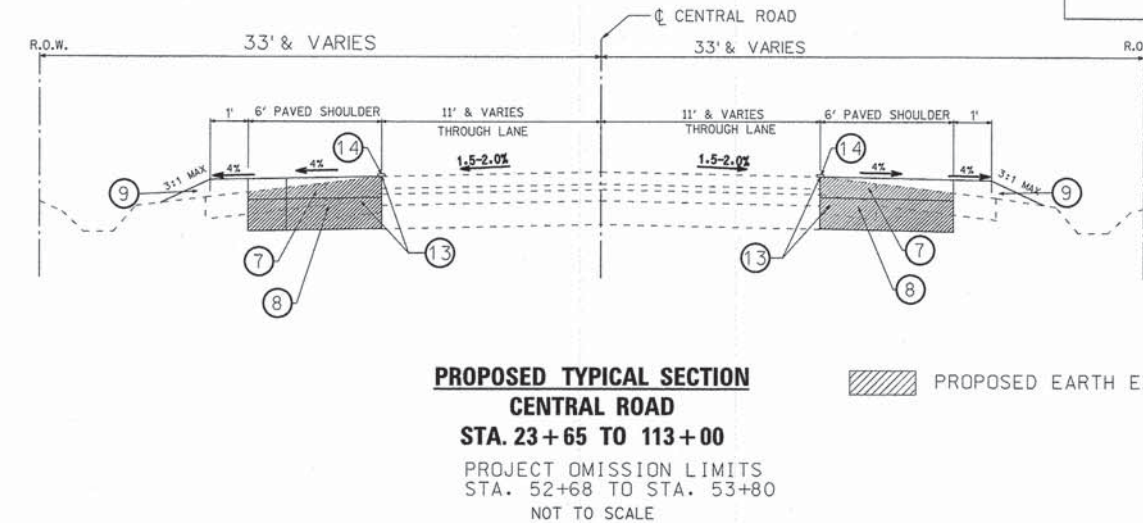
SI	SP	PAY ITEM CODE	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	560	0028
X		63100041	TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	4	0028
X		63200310	GUARDRAIL REMOVAL	FOOT	1,190	0028
X	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,890	0028
X	*	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	0028
X	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	0028
		67100100	MOBILIZATION	L SUM	1	0028
		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	65	0028
		72000100	SIGN PANEL - TYPE 1	SQ FT	250	0028
		72900100	METAL POST - TYPE A	FOOT	700	0028
		73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	2	0028
X		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	860	0028
X		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	18,312	0028
X		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	837	0028
X		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	180	0028
X		78300100	PAVEMENT MARKING REMOVAL	SQ FT	6,750	0028
X		81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	15	0028
X		81400100	HANDHOLE	EACH	1	0028
X		85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	0028
X	*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	335	0028
X		89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	430	0028
X	*	89502376	REBUILD EXISTING HANDHOLE	EACH	10	0028
X		89502380	REMOVE EXISTING HANDHOLE	EACH	1	0028
X		A2000118	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	4	0028
X		A2018620	TREE, ULMUS CARPINIFOLIA MORTON, (ACCOLADE ELM HYBRID), 3" CALIPER, BALLED AND BURLAPPED	EACH	4	0028
X	*	X0326899	SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2	0028
	*	X2800520	ABOVE GRADE INLET FILTERS	EACH	26	0028
X	*	X6300130	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	FOOT	1,100	0028
	*	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	0028
		Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SQ YD	220	0028
		Z0004538	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"	SQ YD	70	0028
	*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0028
	*	Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	8	0028
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	500	0028
	*	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0028
	*	Z0076600	TRAINEES	HOUR	500	0042
	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	0042

\* SP Special Provision  
x SI Specialty Item





EXISTING PAVEMENT SECTION FROM IDOT RESURFACING PLANS FOR CENTRAL ROAD CONTRACT NO.60E45



**LEGEND:**

- ① EXISTING HOT-MIX ASPHALT SHOULDER, 8" (±)
- ② EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2" (±)
- ③ EXISTING POLYMERIZED LEVELING BINDER, 3/4" (±)
- ④ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 3 3/4" (±)
- ⑤ EXISTING PCC BASE COURSE, 10" (±)
- ⑥ EXISTING AGGREGATE SHOULDER, TYPE B, 8" (±)
- ⑦ PROPOSED PAVED SHOULDER FULL DEPTH PAVEMENT COMPRISED OF:  
-HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL 9.5MM) -2"  
-HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 -4"
- ⑧ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑨ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑩ PROPOSED HMA PATH PAVEMENT COMPRISED OF  
-HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5MM) -2"
- ⑪ PROPOSED PCC SIDEWALK, -5" (TYP.)
- ⑫ PROPOSED AGGREGATE BASE COURSE, TYPE B, -4"
- ⑬ SAW CUT EXISTING SHOULDER, REMOVE HMA MATERIALS, AND AGGREGATE SHOULDER FOR PLACEMENT OF PROPOSED ASPHALT SHOULDER
- ⑭ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- ⑮ PROPOSED LEVELING BINDER (MACHINE METHOD), N50 - 2"  
NOTE: LEVELING BINDER IS USED ONLY ON THE HMA PATH SHOWN ON PLANS BETWEEN STA 18+00 AND 20+00

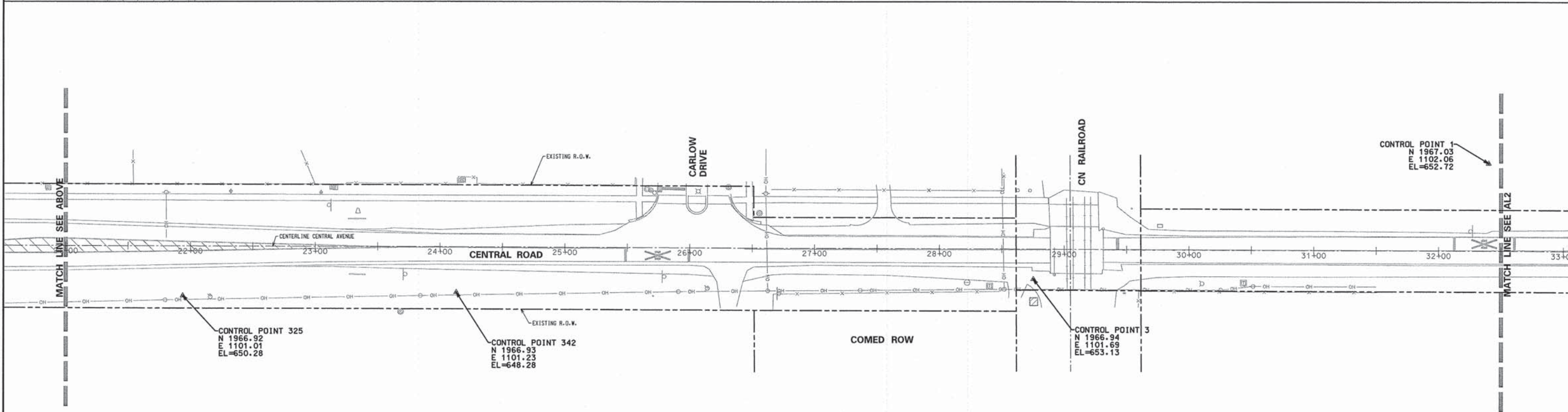
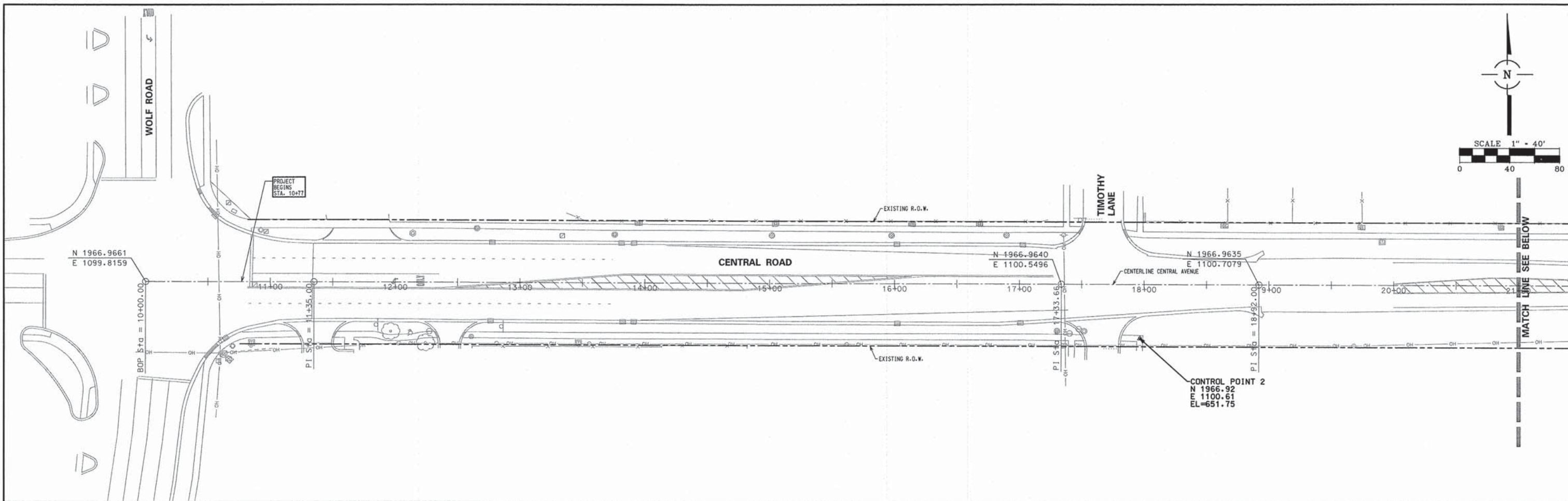
▨ PROPOSED EARTH EXCAVATION

**NOTE:**

CURB AND GUTTER IS LOCATED AT US ROUTE 45 AND CIRCLE DRIVE INTERSECTION

HOT-MIX ASPHALT (HMA) MIXTURE REQUIREMENTS		
MIXTURE TYPE	PERCENT AIR VOIDS @ N <sub>max</sub>	LIFT THICKNESS
PAVED SHOULDER	HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 (IL 9.5MM)	4% @ 70 GYR 2"
	HOT-MIX ASPHALT BINDER COURSE N70 (IL 19.0MM)	4% @ 70 GYR 4"
HMA PATH	HOT-MIX ASPHALT SURFACE COURSE MIX "D" N50 (IL 9.5MM)	4% @ 50 GYR 2"
	LEVELING BINDER (MACHINE METHOD), N50	4% @ 50 GYR 2"
PATCHES	HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 (IL 9.5MM)	4% @ 70 GYR 4"
PATCHES	HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 (IL 9.5MM)	4% @ 70 GYR 6"
DRIVEWAYS	HOT-MIX ASPHALT SURFACE COURSE MIX "D" N50 (IL 9.5MM)	4% @ 50 GYR 2"
	HOT-MIX ASPHALT BASE COURSE	4% @ 50 GYR 6"
DRIVEWAYS	HOT-MIX ASPHALT SURFACE COURSE MIX "D" N50 (IL 9.5MM)	4% @ 50 GYR 2"
	HOT-MIX ASPHALT BASE COURSE	4% @ 50 GYR 8"

THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQ. YD./IN. THE "AC TYPE SHALL "PG64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISION. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

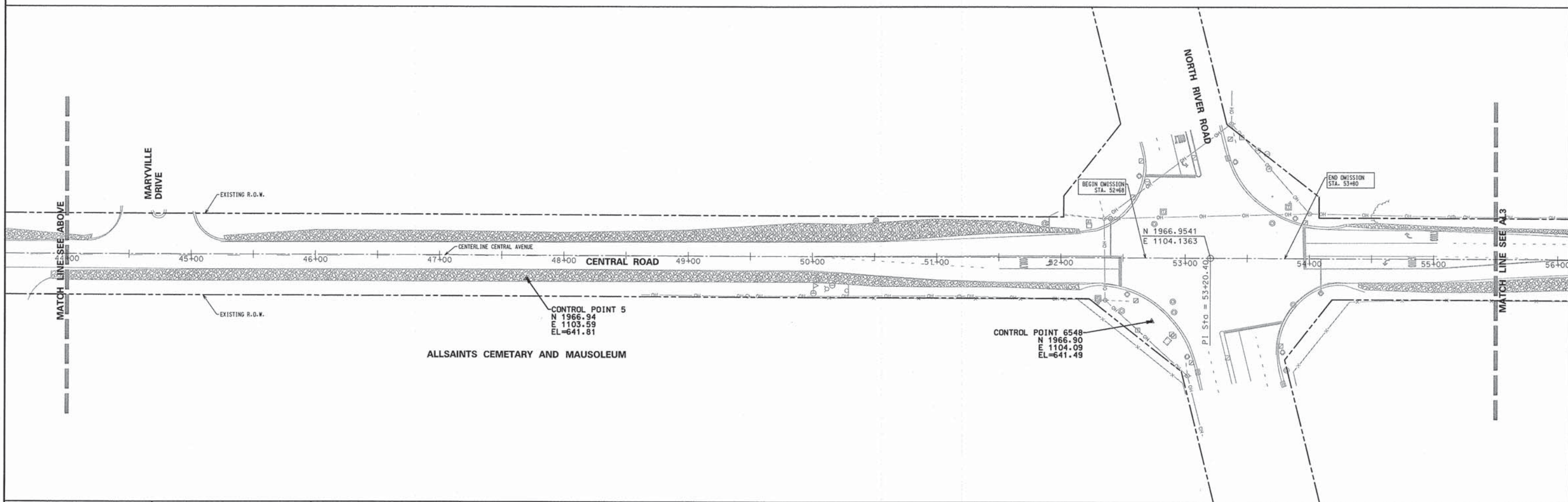
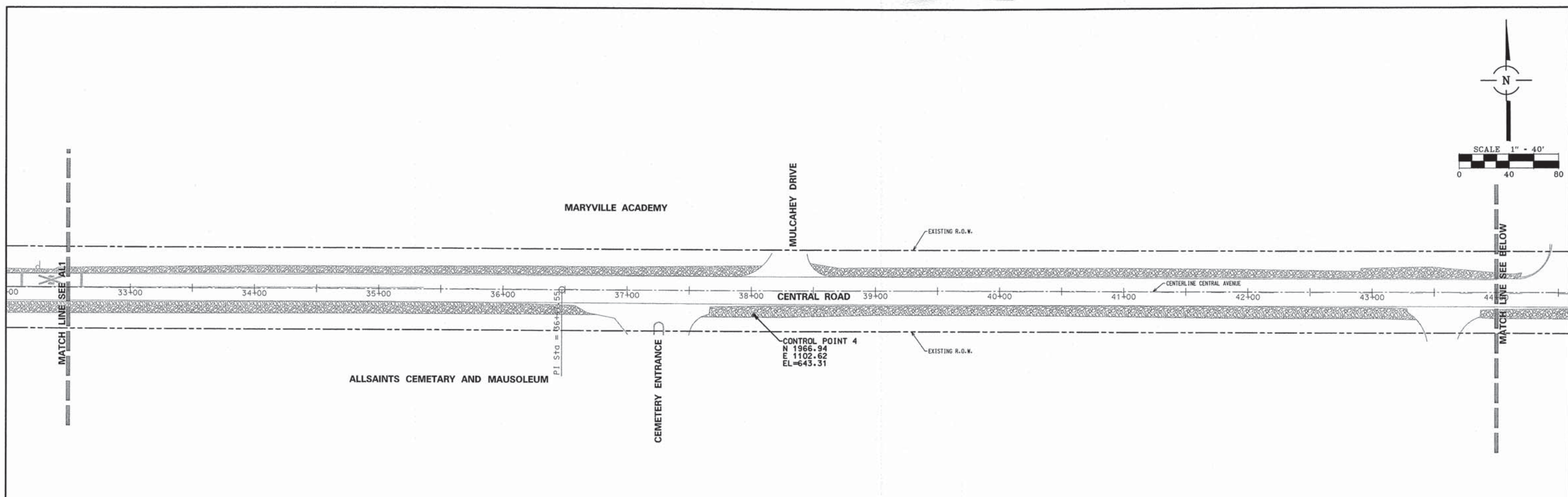
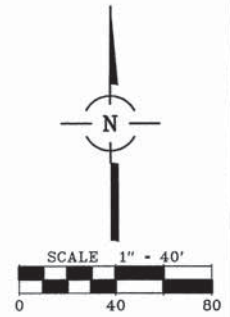


SOURCE BENCHMARK:  
CITY OF DES PLAINES BENCHMARK #46 MONUMENT SET IN  
CONCRETE AT MADELYN DR. OPPOSITE #785 MADELYN 14' FROM  
E/P MADELYN ACROSS FROM #785 MADELYN.  
ELEVATION = 648.35 (NAVD 88)

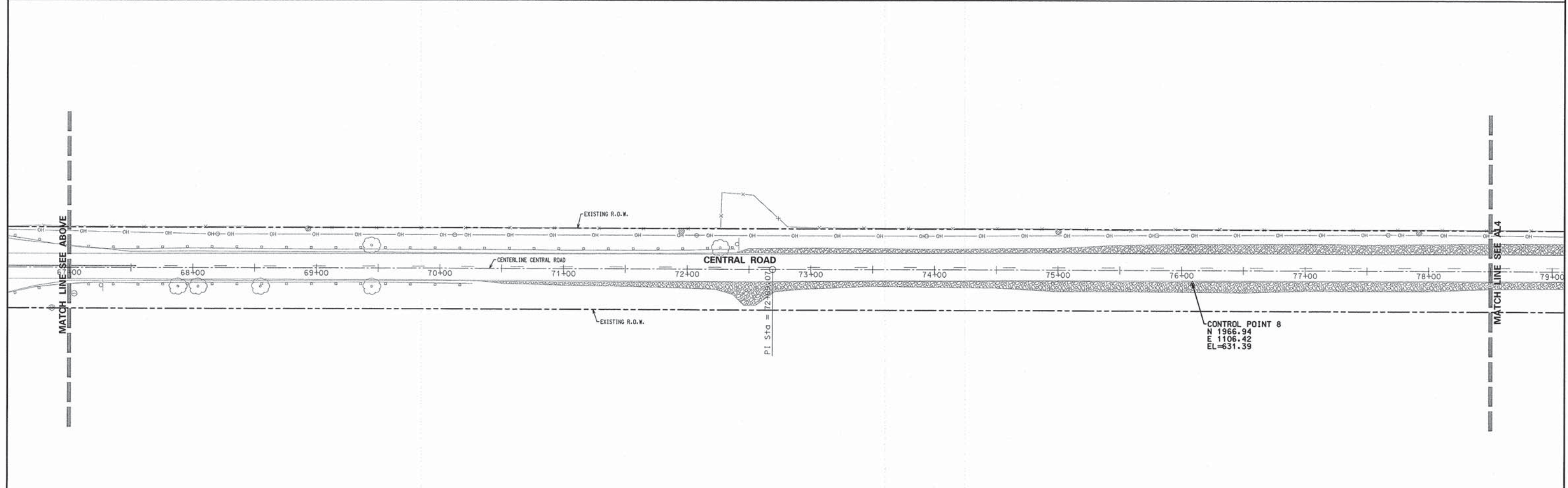
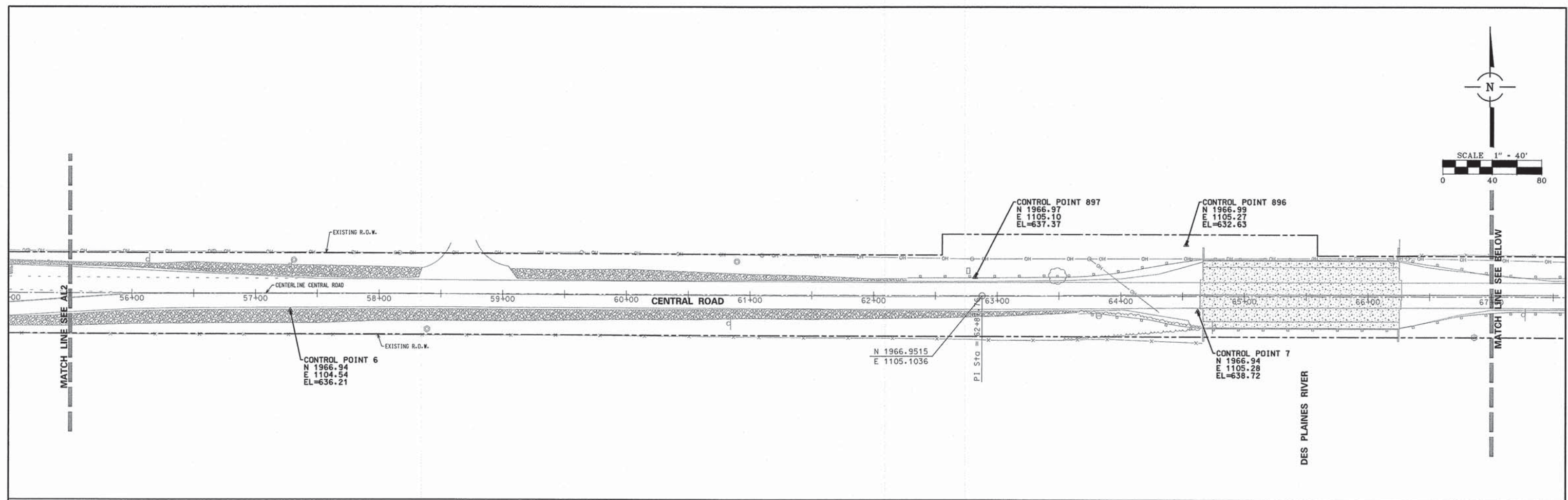
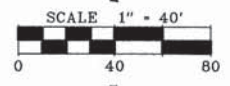
SOURCE BENCHMARK:  
CHISELED SQUARE ON TOP OF HEADWALL ON THE SOUTH SIDE OF  
CENTRAL ROAD AND THE WEST SIDE OF THE DES PLAINES RIVER.  
ELEVATION = 639.600 (NAVD 88)

FILE NAME = 5798MRLDGN	USER NAME = jbacha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE ALIGNMENT, TIES, BENCHMARKS, AND CONTROL POINTS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 1:48	DRAWN -	REVISED -			1300	08-00201-00-BT	COOK	58	6	
	PLOT DATE = 1/27/2015	CHECKED -	REVISED -			CONTRACT NO. 63210					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: 40 SHEET 6 OF 58 SHEETS STA. 10+77 TO STA. 133+00



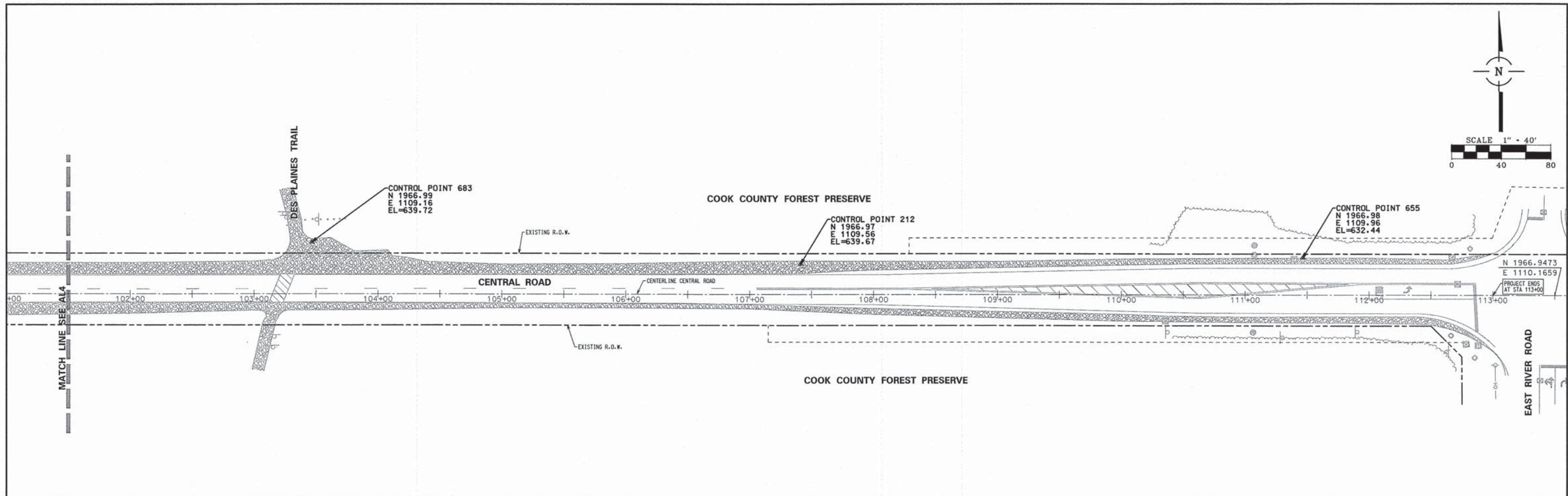
FILE NAME = 5799LR220N	USER NAME = jbaebe	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE ALIGNMENT, TIES, BENCHMARKS AND CONTROL POINTS</b>		F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 7
Default	PLOT SCALE = 1:48	CHECKED -	REVISED -		SCALE: 40	SHEET 7 OF 58 SHEETS	STA. 10+77	TO STA. 133+00	CONTRACT NO. 63210		
	PLOT DATE = 1/27/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						



FILE NAME = 5798A13308	USER NAME = j_bacha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE ALIGNMENT, TIES, BENCHMARKS, AND CONTROL POINTS</b>			F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 8
Default	PLOT SCALE = 1:40	DRAWN -	REVISED -		SCALE: 40	SHEET 8	OF 58 SHEETS	STA. 10+77	TO STA. 133+00	CONTRACT NO. 63210		
	PLOT DATE = 1/27/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							







FILE NAME = 579HJUS.DGN	USER NAME = jbocha	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1:40	CHECKED -	REVISED -
	PLOT DATE = 1/27/2015	DATE -	REVISED -

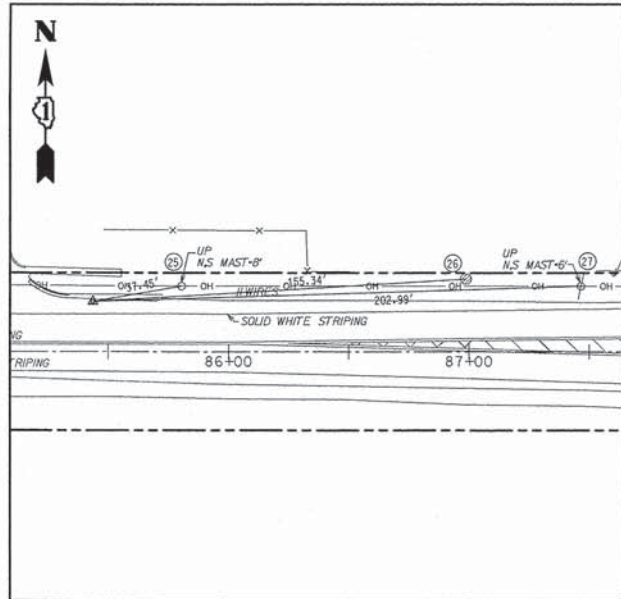
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CENTRAL ROAD BIKE ROUTE  
ALIGNMENT, TIES, BENCHMARKS, AND CONTROL POINTS**

SCALE: 40 SHEET 10 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 10
CONTRACT NO. 63210				
ILLINOIS FED. AID PROJECT				

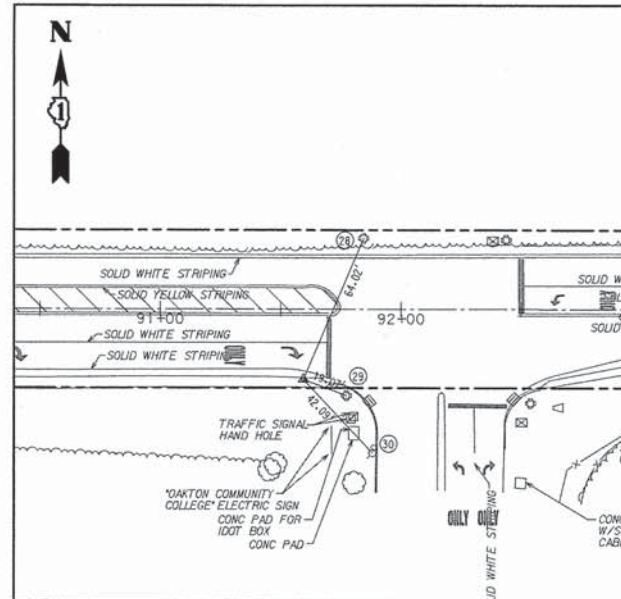




**CONTROL POINT #13**  
STA 85+43.6, 21.06' LT

CONTROL POINT #13 IS A MAG NAIL AT EAST SIDE OF ENTRANCE TO 9800 CENTRAL, +/-27' WEST OF EAST END OF CURB, +/-5' NORTH OF WHITE LINE.

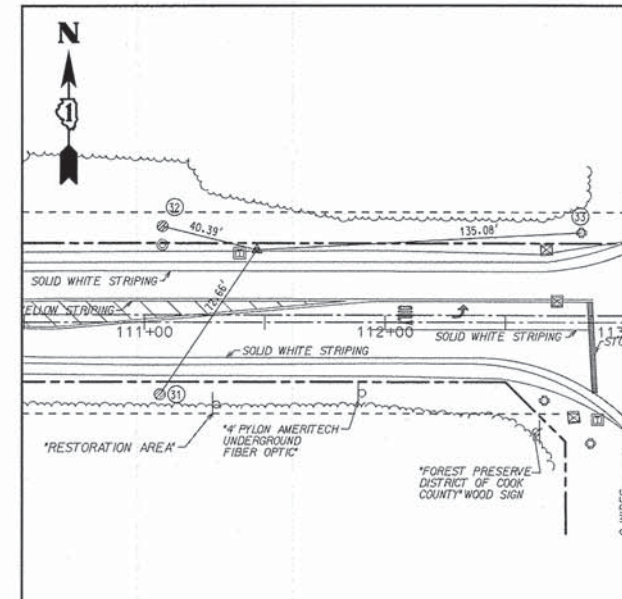
- 25. CENTER OF UTILITY POLE
- 26. CENTER OF CATCH BASIN
- 27. CENTER OF UTILITY POLE



**CONTROL POINT #10**  
STA 91+59.52, 29.43' RT

CONTROL POINT #10 IS SET IRON ROD WITH CAP 3" BELOW GRAVEL, 1' SOUTH OF CENTRAL E/P, NW OF TRAFFIC SIGNAL LIGHT POLE AT SW CORNER OF CENTRAL AND CIRCLE DRIVE.

- 28. CENTER OF TRAFFIC SIGNAL
- 29. CENTER OF TRAFFIC SIGNAL
- 30. CENTER OF LIGHT POLE



**CONTROL POINT #655**  
STA 111+46.65, 30.23' LT

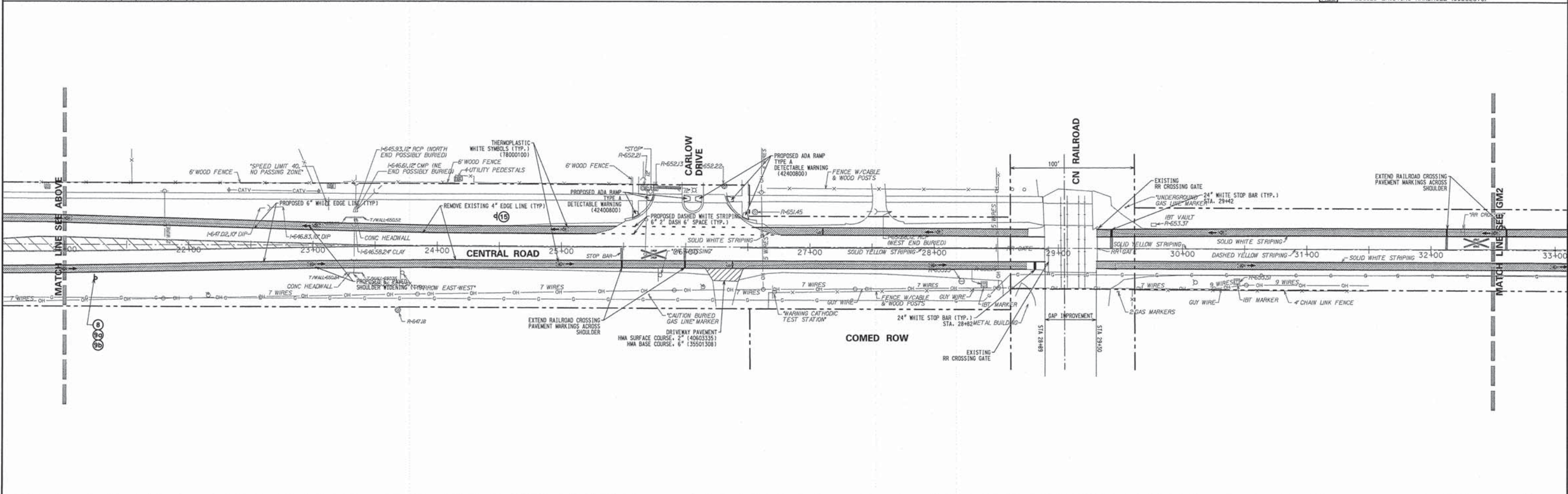
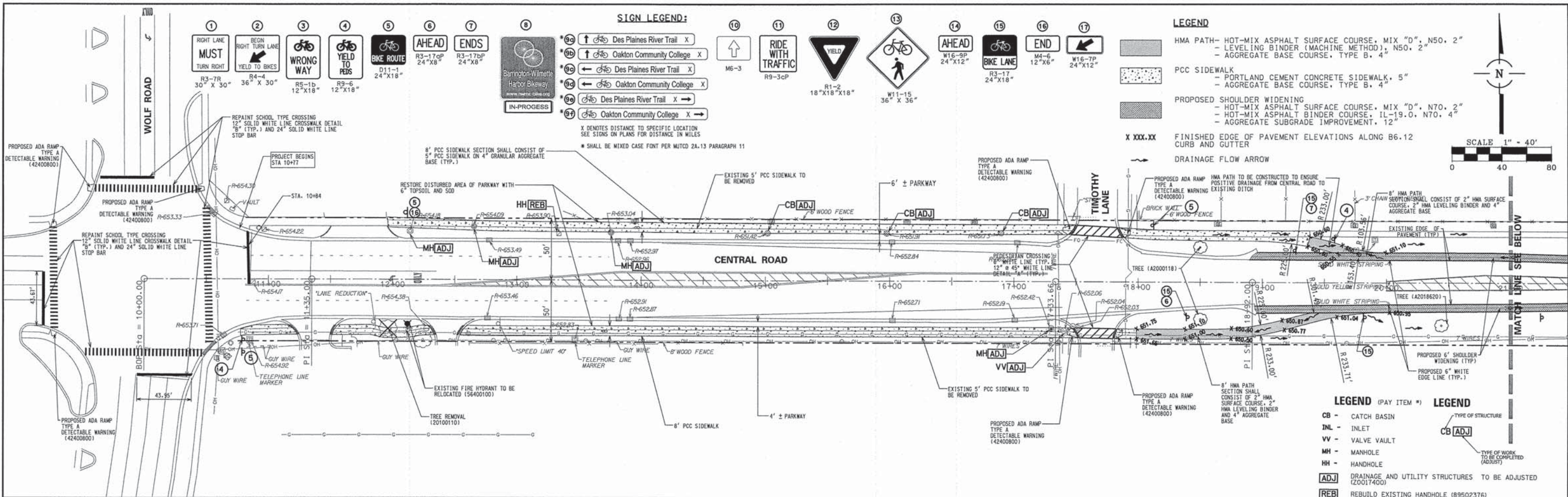
CONTROL POINT #655 IS SET IRON ROD WITH CAP, +/-9' NORTH OF THE NORTH CENTRAL ROAD E/P.

- 31. CENTER OF CATCH BASIN
- 32. CENTER OF CATCH BASIN
- 33. CENTER OF TRAFFIC SIGNAL

SOURCE BENCHMARK:  
CITY OF DES PLAINES BENCHMARK #46 MONUMENT SET IN CONCRETE AT MADELYN DR. OPPOSITE #785 MADELYN 14' FROM E/P MADELYN ACROSS FROM #785 MADELYN.  
ELEVATION = 648.135 (NAVD 88)

SOURCE BENCHMARK:  
CHISELED SQUARE ON TOP OF HEADWALL ON THE SOUTH SIDE OF CENTRAL ROAD AND THE WEST SIDE OF THE DES PLAINES RIVER.  
ELEVATION = 639.600 (NAVD 88)

FILE NAME = 5798A107.DGN	USER NAME = jbecha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE ALIGNMENT, TIES, BENCHMARKS, AND CONTROL POINTS</b>			F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 12
	PLOT SCALE = 1:48	CHECKED -	REVISED -		SCALE: 40	SHEET 12 OF 58 SHEETS	STA. 10+77 TO STA. 133+00	CONTRACT NO. 63210				
Default	PLOT DATE = 1/27/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



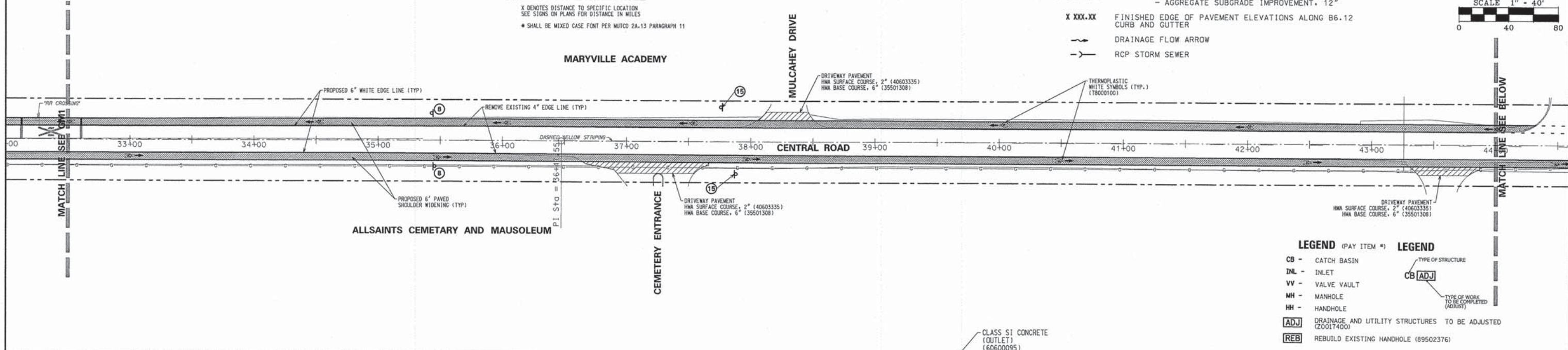
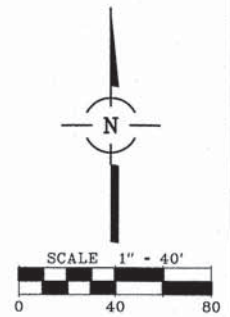
FILE NAME = 5790290.DGN	USER NAME = jbachs	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE SHOULDER WIDENING PLAN</b>	F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 13		
Default	PLOT SCALE = 1:40	CHECKED -	REVISED -			SCALE: 40	SHEET 13 OF 58 SHEETS	STA. 10+77	TO STA. 133+00	CONTRACT NO. 63210		
	PLOT DATE = 2/2/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						

- 1 RIGHT LANE MUST TURN RIGHT R3-7R 30" X 30"
- 2 BEYOND RIGHT TURN LANE YIELD TO BIKES R4-4 36" X 30"
- 3 WRONG WAY R5-1b 12" X 18"
- 4 YIELD TO PEDES R8-6 12" X 18"
- 5 BIKE ROUTE D11-1 24" X 18"
- 6 AHEAD R3-17aP 24" X 8"
- 7 ENDS R3-17bP 24" X 8"

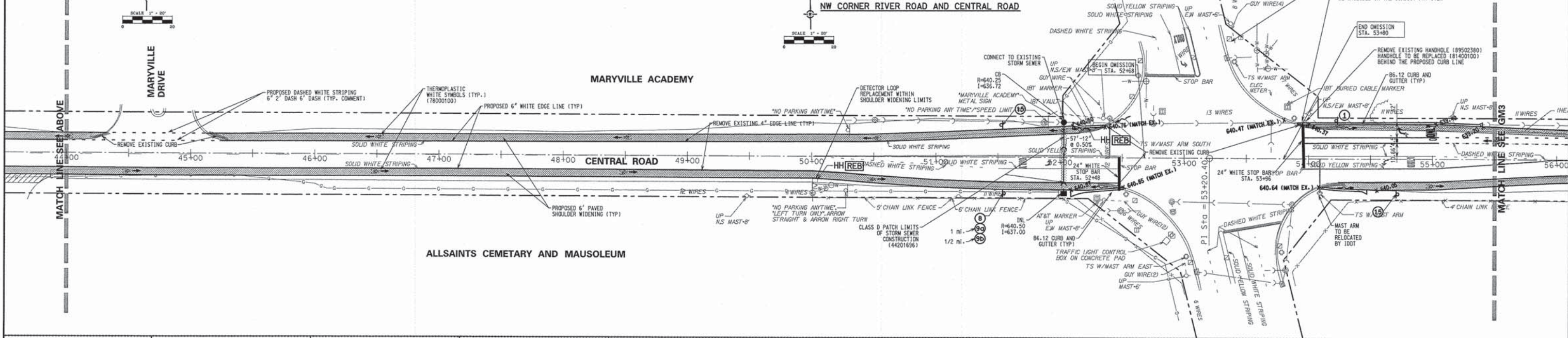
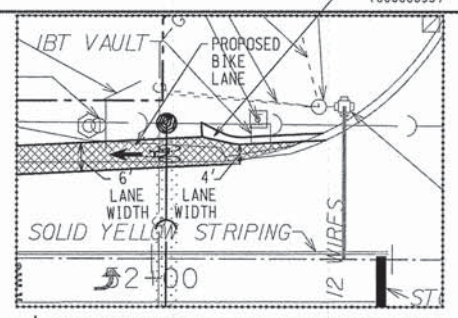
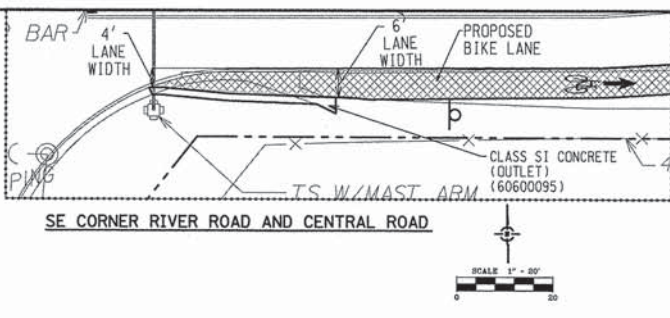
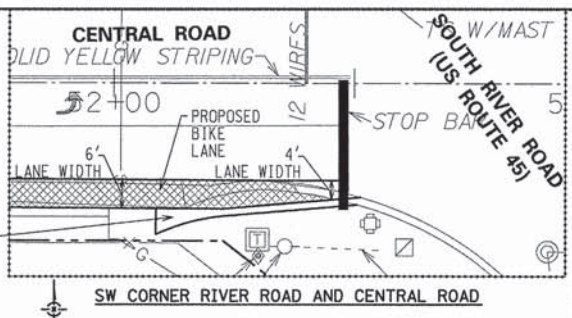
- SIGN LEGEND:**
- 8 Barrington-Wilmette Harbor Bikeway IN-PROGRESS
  - 9a Des Plaines River Trail X
  - 9b Oakton Community College X
  - 9c Des Plaines River Trail X
  - 9d Oakton Community College X
  - 9e Des Plaines River Trail X
  - 9f Oakton Community College X

- 10 M6-3
- 11 RIDE WITH TRAFFIC R9-3cP
- 12 YIELD R1-2 18" X 18" X 18"
- 13 BIKE WALKER W11-15 36" X 36"
- 14 AHEAD W16-9P 24" X 12"
- 15 BIKE LANE R3-17 24" X 18"
- 16 END M4-C 12" X 6"
- 17 W16-7P 24" X 12"

- LEGEND**
- HMA PATH - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
  - LEVELING BINDER (MACHINE METHOD), N50, 2"
  - AGGREGATE BASE COURSE, TYPE B, 4"
  - PCC SIDEWALK - PORTLAND CEMENT CONCRETE SIDEWALK, 5"
  - AGGREGATE BASE COURSE, TYPE B, 4"
  - PROPOSED SHOULDER WIDENING - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
  - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4"
  - AGGREGATE SUBGRADE IMPROVEMENT, 12"
  - X XXX.XX FINISHED EDGE OF PAVEMENT ELEVATIONS ALONG B6.12 CURB AND GUTTER
  - DRAINAGE FLOW ARROW
  - RCP STORM SEWER



- LEGEND (PAY ITEM #)**
- CB - CATCH BASIN
  - INL - INLET
  - VV - VALVE VAULT
  - MH - MANHOLE
  - HH - HANDHOLE
  - ADJ - DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED (20017400)
  - REB - REBUILD EXISTING HANDHOLE (89502376)
- LEGEND**
- TYPE OF STRUCTURE
  - CB [ADJ]
  - TYPE OF WORK TO BE COMPLETED (ADJUST)



FILE NAME = 5790N200N	USER NAME = jbocha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE SHOULDER WIDENING PLAN</b>	F.A.U. R.T.E. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 14		
PLOT SCALE = 1:40	CHECKED -	REVISED -	SCALE: 40			SHEET 14 OF 58 SHEETS	STA. 10+77 TO STA. 133+00	CONTRACT NO. 63210		ILLINOIS FED. AID PROJECT		
PLOT DATE = 2/2/2015	DATE -	REVISED -										
Default												



**SIGN LEGEND:**

① RIGHT LANE <b>MUST</b> TURN RIGHT R3-7R 30" X 30"	② BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 36" X 30"	③ <b>WRONG</b> WAY	④ <b>YIELD</b> TO PIDS	⑤ <b>BIKE ROUTE</b> D11-1 24" X 18"	⑥ <b>AHEAD</b> R3-17CP 24" X 8"	⑦ <b>ENDS</b> R3-17DP 24" X 8"	⑧ Barrington-Wilmette Harbor Bikeway www.pbtc.org IN-PROGRESS	⑨a Des Plaines River Trail X	⑨b Oakton Community College X	⑩ M6-3	⑪ <b>RIDE</b> WITH TRAFFIC R9-3CP	⑫ <b>YIELD</b> R1-2 18" X 18" X 18"	⑬ W11-15 36" X 36"	⑭ <b>AHEAD</b> W16-9P 24" X 12"	⑮ <b>BIKE LANE</b> R3-17 24" X 18"	⑯ <b>END</b> M4-6 12" X 6"	⑰ W16-7P 24" X 12"
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X DENOTES DISTANCE TO SPECIFIC LOCATION  
SEE SIGNS ON PLANS FOR DISTANCE IN MILES  
\* SHALL BE MIXED CASE FONT PER MUTCD 2A.13 PARAGRAPH 11

**LEGEND**

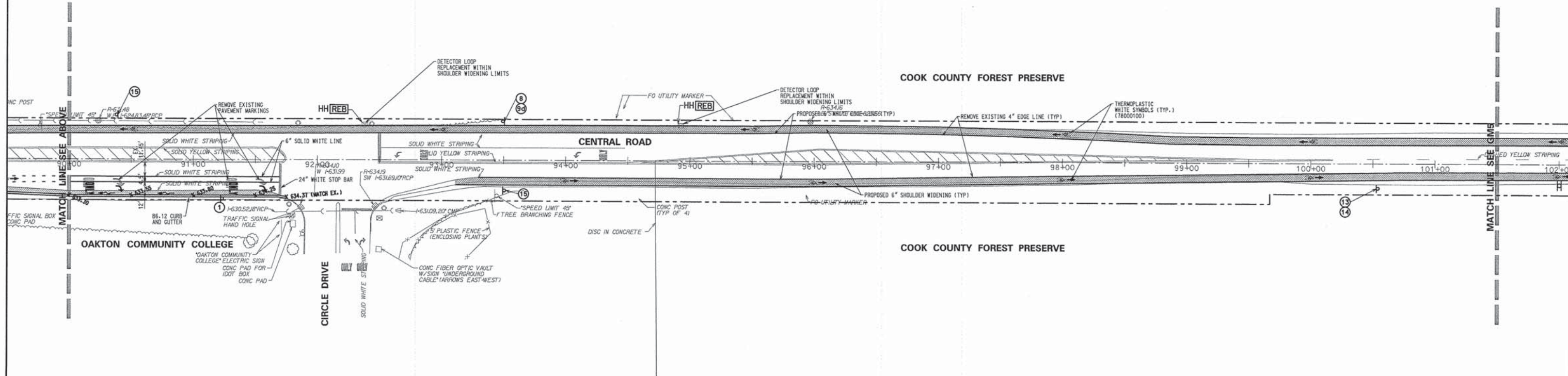
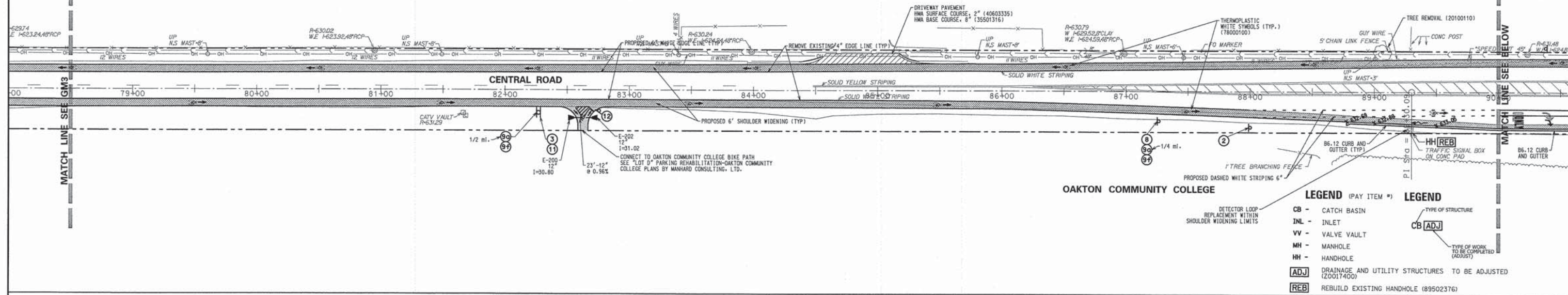
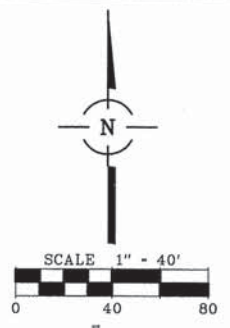
HMA PATH- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"  
- LEVELING BINDER (MACHINE METHOD), N50, 2"  
- AGGREGATE BASE COURSE, TYPE B, 4"

PCC SIDEWALK  
- PORTLAND CEMENT CONCRETE SIDEWALK, 5"  
- AGGREGATE BASE COURSE, TYPE B, 4"

PROPOSED SHOULDER WIDENING  
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"  
- HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4"  
- AGGREGATE SUBGRADE IMPROVEMENT, 12"

X XXX.XX FINISHED EDGE OF PAVEMENT ELEVATIONS ALONG B6.12 CURB AND GUTTER

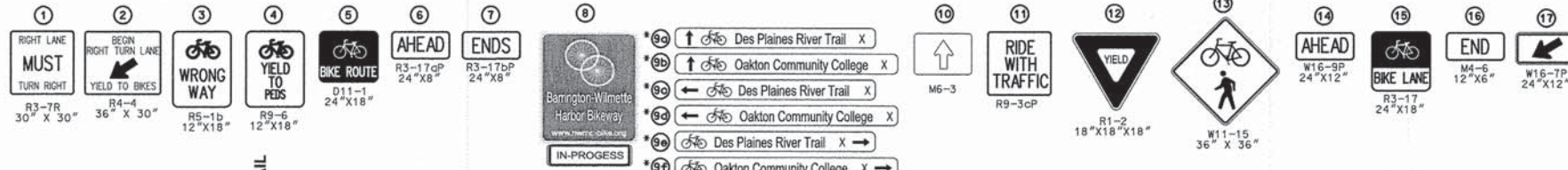
— DRAINAGE FLOW ARROW



FILE NAME = 579020410X	USER NAME = jbocha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE SHOULDER WIDENING PLAN</b>	F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 16		
PLOT SCALE = 1:40	CHECKED -	REVISED -	SCALE: 40			SHEET 16 OF 58 SHEETS	STA. 10+77 TO STA. 133+00	CONTRACT NO. 63210		ILLINOIS FED. AID PROJECT		
PLOT DATE = 2/2/2015	DATE -	REVISED -										

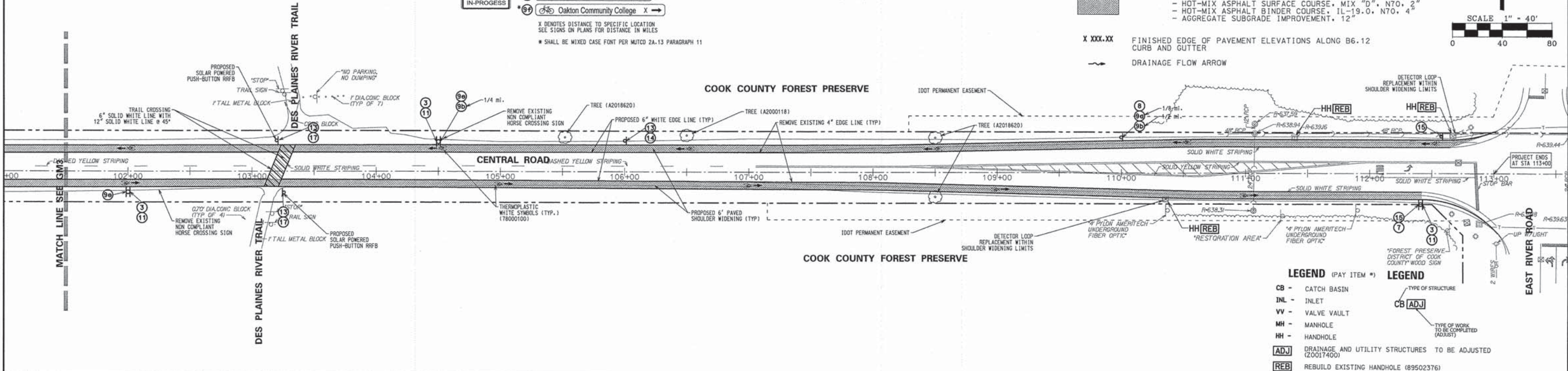
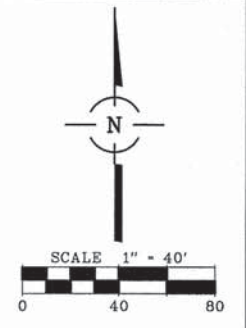
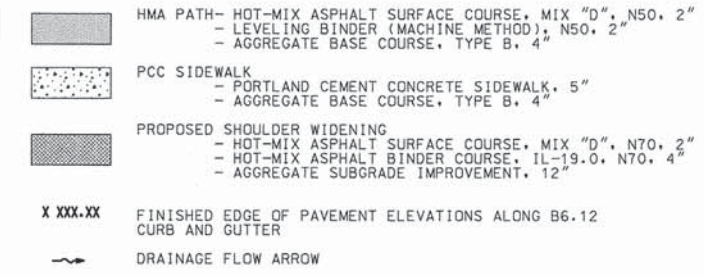


**SIGN LEGEND:**



X DENOTES DISTANCE TO SPECIFIC LOCATION SEE SIGNS ON PLANS FOR DISTANCE IN MILES  
 \* SHALL BE MIXED CASE FONT PER MUTCD 2A.13 PARAGRAPH 11

**LEGEND**



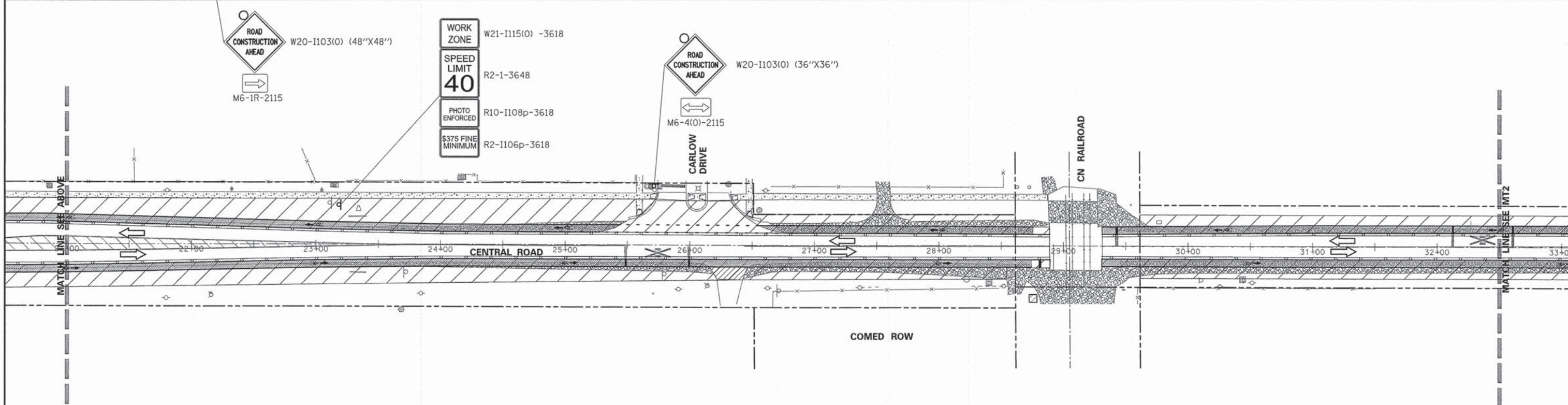
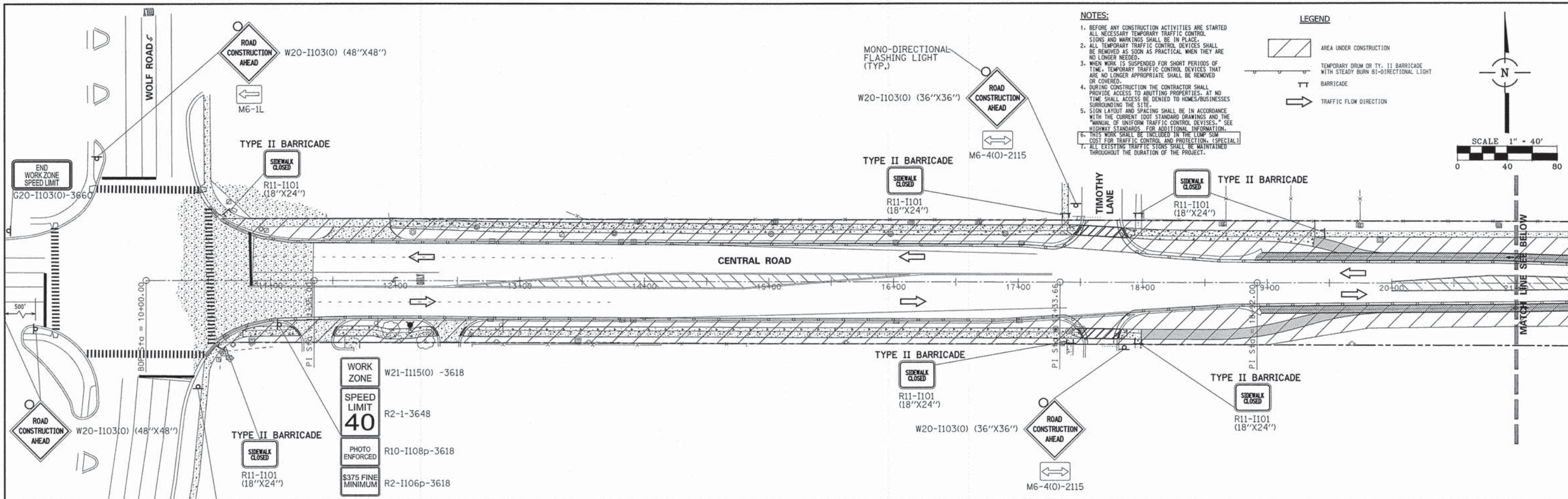
**LEGEND (PAY ITEM #)**

CB	-	CATCH BASIN
INL	-	INLET
VV	-	VALVE VAULT
MH	-	MANHOLE
HH	-	HANDHOLE
ADJ	-	DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED (20017400)
REB	-	REBUILD EXISTING HANDHOLE (89502376)

**LEGEND**

CB [ADJ]	-	TYPE OF STRUCTURE
CB [REB]	-	TYPE OF WORK TO BE COMPLETED (ADJUST)

FILE NAME = 5798095.DGN	USER NAME = jbacha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE SHOULDER WIDENING PLAN</b>	F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 17		
PLOT SCALE = 1:48	CHECKED -	REVISED -	SCALE: 40			SHEET 17 OF 58 SHEETS	STA. 10+77 TO STA. 133+00	CONTRACT NO. 63210		ILLINOIS FED. AID PROJECT		
PLOT DATE = 2/2/2015	DATE -	REVISED -										
Default												



FILE NAME = 579018.DGN	USER NAME = jbacha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE MAINTENANCE OF TRAFFIC PLAN</b>			F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 18
PLOT SCALE = 1:40	PLOT DATE = 1/27/2015	CHECKED -	REVISED -		SCALE: 40	SHEET 18	OF 58 SHEETS	STA. 10+77	TO STA. 133+00	CONTRACT NO. 63210		
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

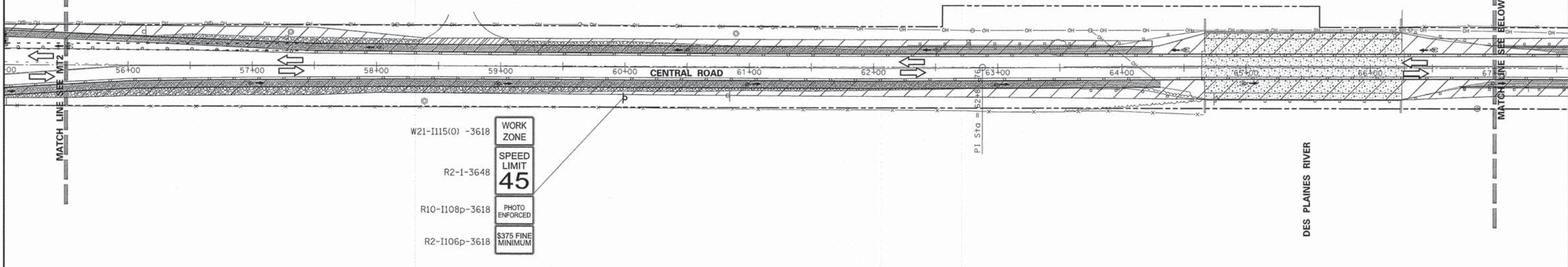
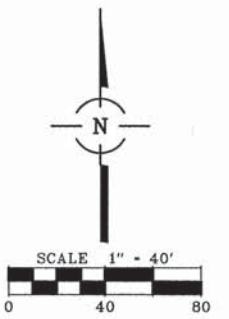


**NOTES:**

- BEFORE ANY CONSTRUCTION ACTIVITIES ARE STARTED ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS AND MARKINGS SHALL BE IN PLACE.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED.
- WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT PROPERTIES. AT NO TIME SHALL ACCESS BE DENIED TO HOMES/BUSINESSES SURROUNDING THE SITE.
- SIGN LAYOUT AND SPACING SHALL BE IN ACCORDANCE WITH THE CURRENT IDOT STANDARD DRAWINGS AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES." SEE HIGHWAY STANDARDS FOR ADDITIONAL INFORMATION.
- THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR TRAFFIC CONTROL AND PROTECTION. (SPECIAL)
- ALL EXISTING TRAFFIC SIGNS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

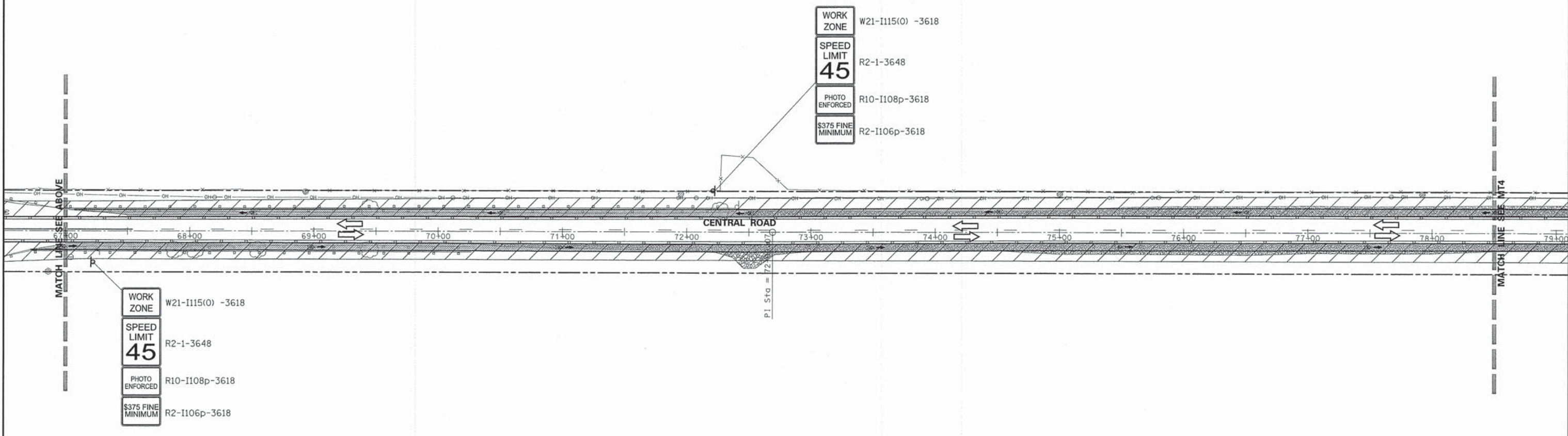
**LEGEND**

- AREA UNDER CONSTRUCTION
- TEMPORARY DRUM OR TY. II BARRICADE WITH STEADY BURN BI-DIRECTIONAL LIGHT
- BARRICADE
- TRAFFIC FLOW DIRECTION



W21-I115(0) -3618  
 R2-1-3648  
 R10-I108p-3618  
 R2-I106p-3618

**WORK ZONE**  
**SPEED LIMIT 45**  
**PHOTO ENFORCED**  
**\$375 FINE MINIMUM**



W21-I115(0) -3618  
 R2-1-3648  
 R10-I108p-3618  
 R2-I106p-3618

**WORK ZONE**  
**SPEED LIMIT 45**  
**PHOTO ENFORCED**  
**\$375 FINE MINIMUM**

W21-I115(0) -3618  
 R2-1-3648  
 R10-I108p-3618  
 R2-I106p-3618

**WORK ZONE**  
**SPEED LIMIT 45**  
**PHOTO ENFORCED**  
**\$375 FINE MINIMUM**

FILE NAME = 579HW183.DGN	USER NAME = jbocha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE MAINTENANCE OF TRAFFIC PLAN</b>	F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 20		
Default	PLOT SCALE = 1:48	CHECKED -	REVISED -			SCALE: 40	SHEET 20 OF 58 SHEETS	STA. 10+77	TO STA. 133+00	CONTRACT NO. 63210		
	PLOT DATE = 1/27/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						

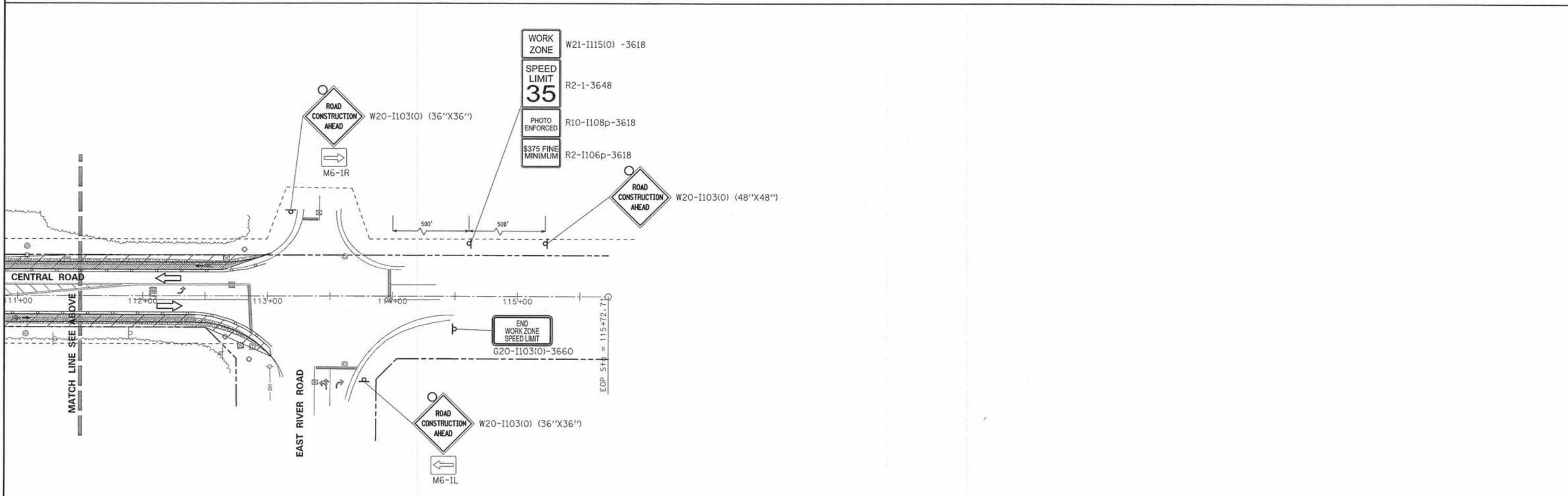
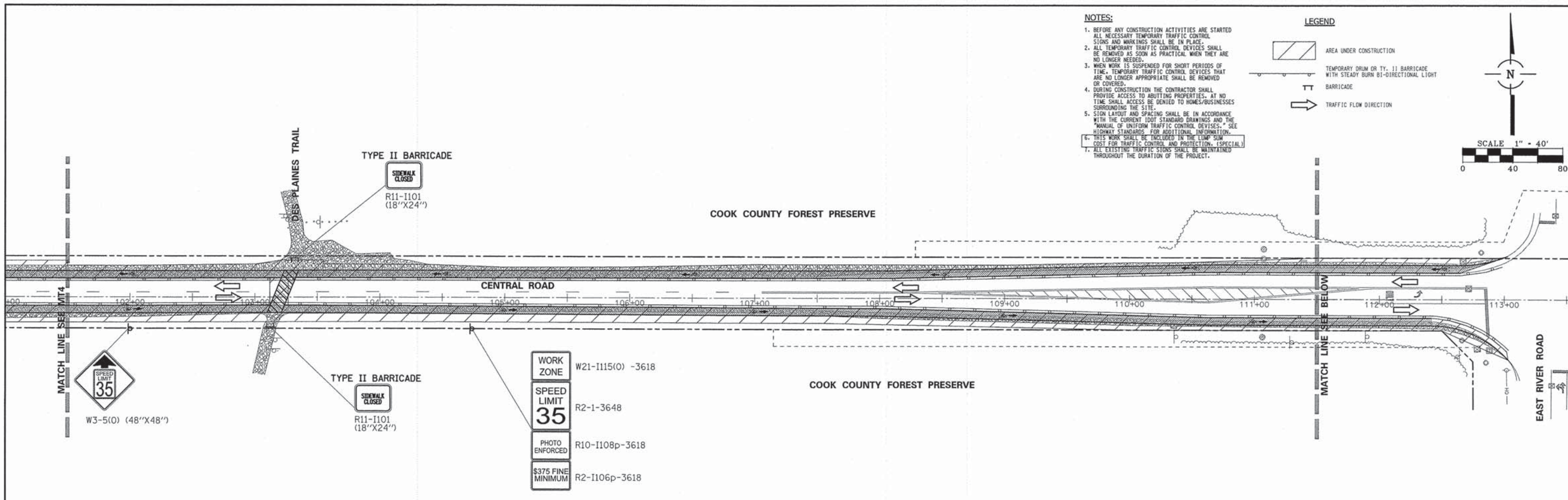
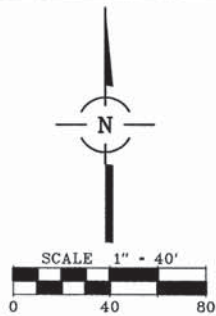


**NOTES:**

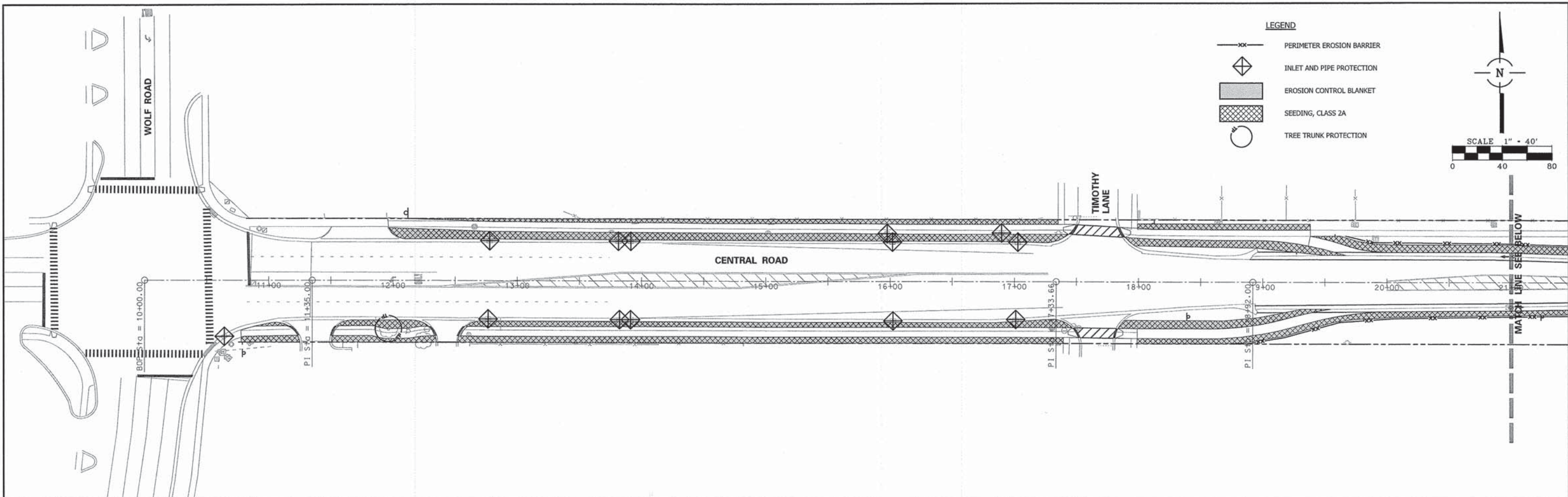
- BEFORE ANY CONSTRUCTION ACTIVITIES ARE STARTED ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS AND MARKINGS SHALL BE IN PLACE.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED.
- WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE ACCESS TO ADJUTING PROPERTIES. AT NO TIME SHALL ACCESS BE DENIED TO HOMES/BUSINESSES SURROUNDING THE SITE.
- SIGN LAYOUT AND SPACING SHALL BE IN ACCORDANCE WITH THE CURRENT IDOT STANDARD DRAWINGS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SEE HIGHWAY STANDARDS FOR ADDITIONAL INFORMATION.
- THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR TRAFFIC CONTROL AND PROTECTION. (SPECIAL)
- ALL EXISTING TRAFFIC SIGNS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

**LEGEND**

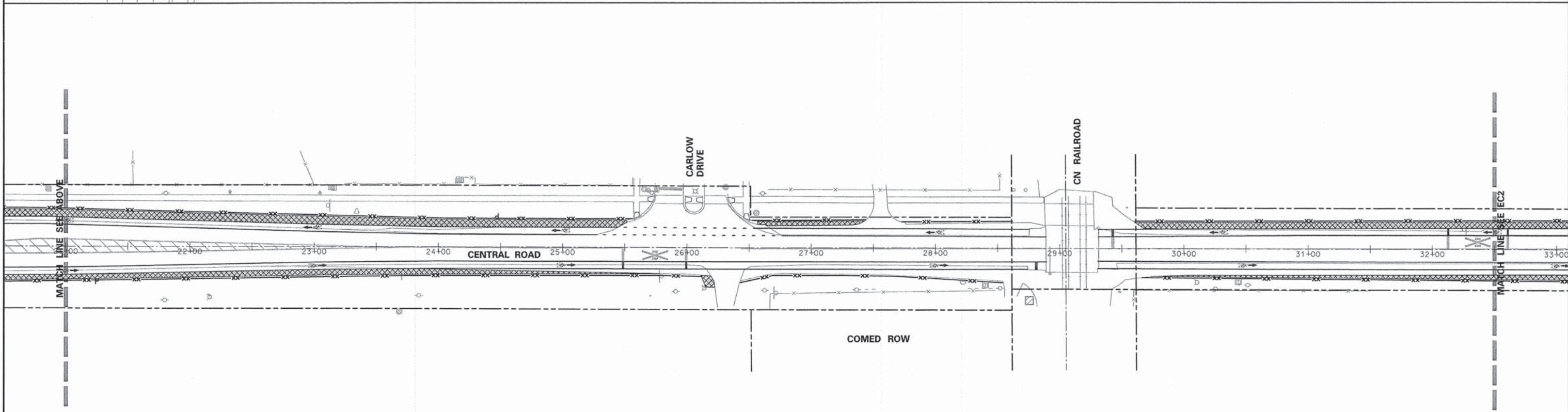
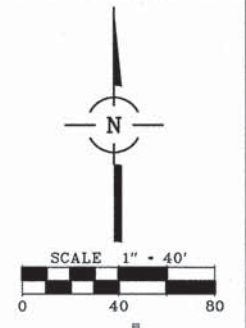
- AREA UNDER CONSTRUCTION
- TEMPORARY DRUM OR TY. II BARRICADE WITH STEADY BURN BI-DIRECTIONAL LIGHT
- BARRICADE
- TRAFFIC FLOW DIRECTION



FILE NAME = 5798105.DGN	USER NAME = jbocha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE MAINTENANCE OF TRAFFIC PLAN</b>		F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 22	
Default	PLOT SCALE = 1:48	DRAWN -	REVISED -		SCALE: 40	SHEET 22 OF 58 SHEETS	STA. 10+77 TO STA. 133+00	CONTRACT NO. 63210		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 1/27/2015	CHECKED -	REVISED -									
		DATE -	REVISED -									



- LEGEND**
- xx— PERIMETER EROSION BARRIER
  - ◊ INLET AND PIPE PROTECTION
  - ▨ EROSION CONTROL BLANKET
  - ▩ SEEDING, CLASS 2A
  - TREE TRUNK PROTECTION



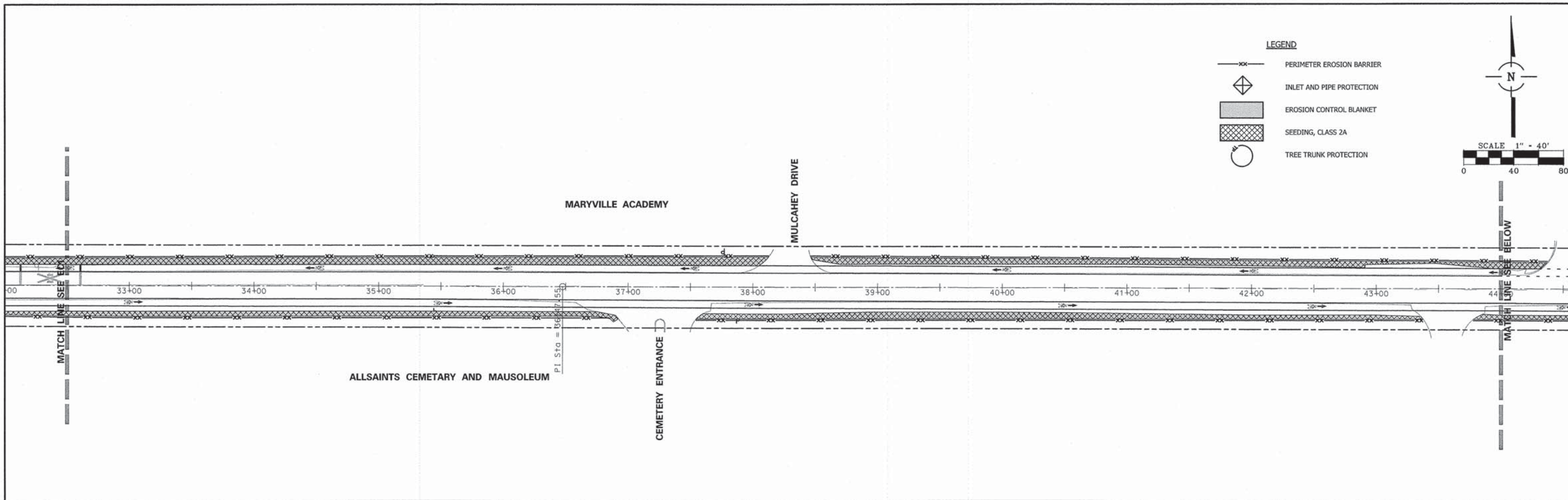
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	PLOT DATE = 1/27/2015	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CENTRAL ROAD BIKE ROUTE  
EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 40 SHEET 23 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 23
CONTRACT NO. 63210				
ILLINOIS FED. AID PROJECT				



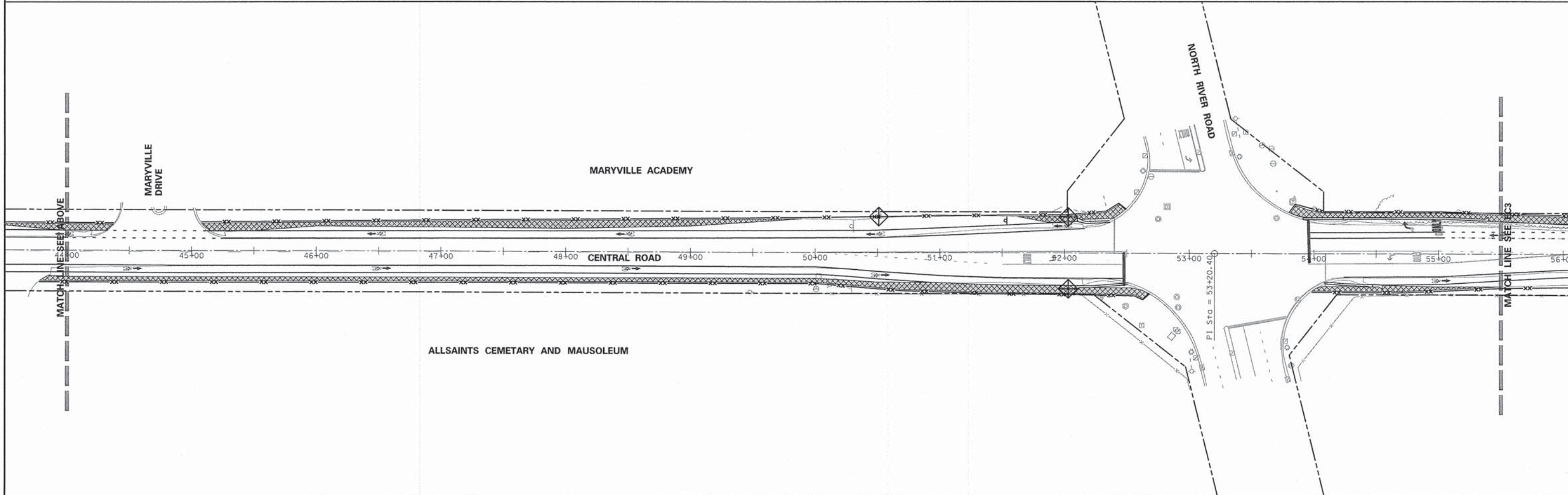
**LEGEND**

- xx— PERIMETER EROSION BARRIER
- ◊ INLET AND PIPE PROTECTION
- ▨ EROSION CONTROL BLANKET
- ▩ SEEDING, CLASS 2A
- TREE TRUNK PROTECTION

SCALE 1" = 40'

0 40 80






N

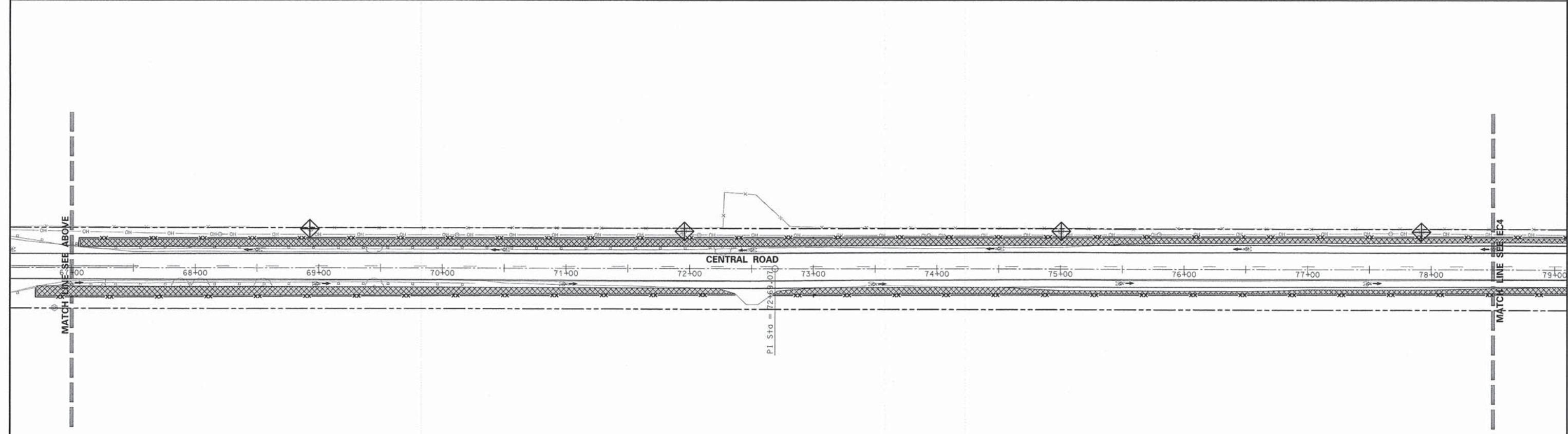
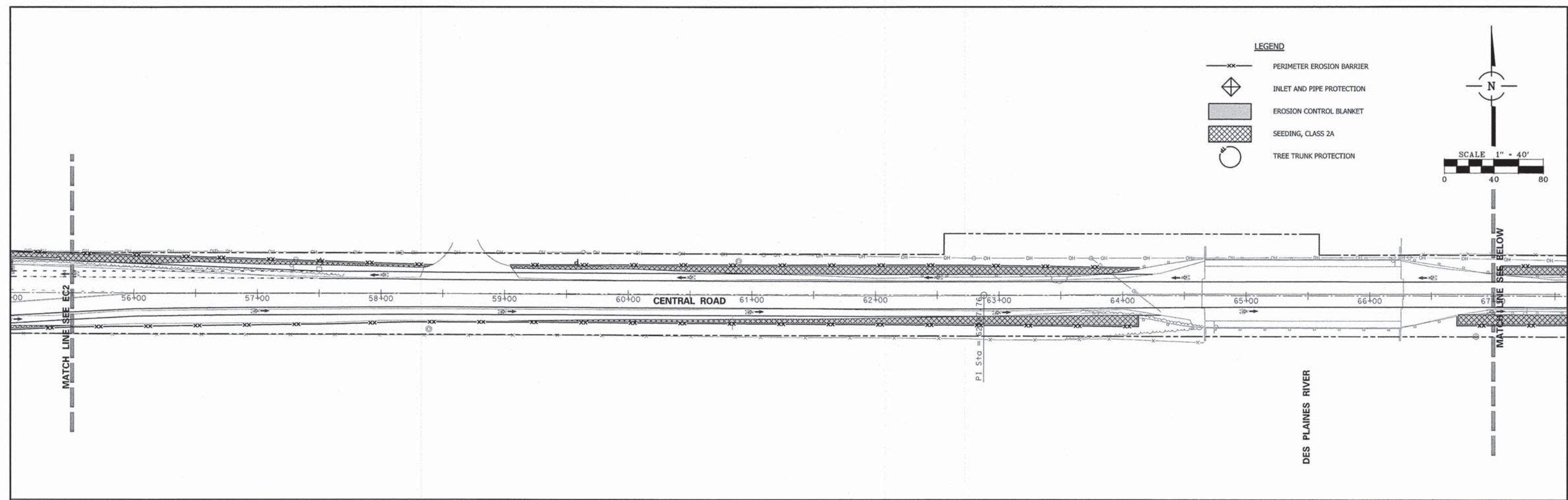
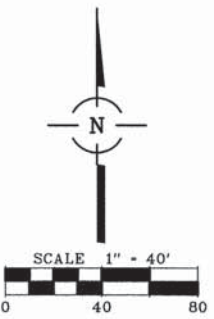


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	PLOT SCALE = 1:40	CHECKED -	REVISED -			1300	08-00201-00-BT	COOK	58	24
Default	PLOT DATE = 1/27/2015	DATE -	REVISED -	SCALE: 40	SHEET 24 OF 58 SHEETS	STA. 10+77 TO STA. 133+00		CONTRACT NO. 63210		
ILLINOIS FED. AID PROJECT										



**LEGEND**

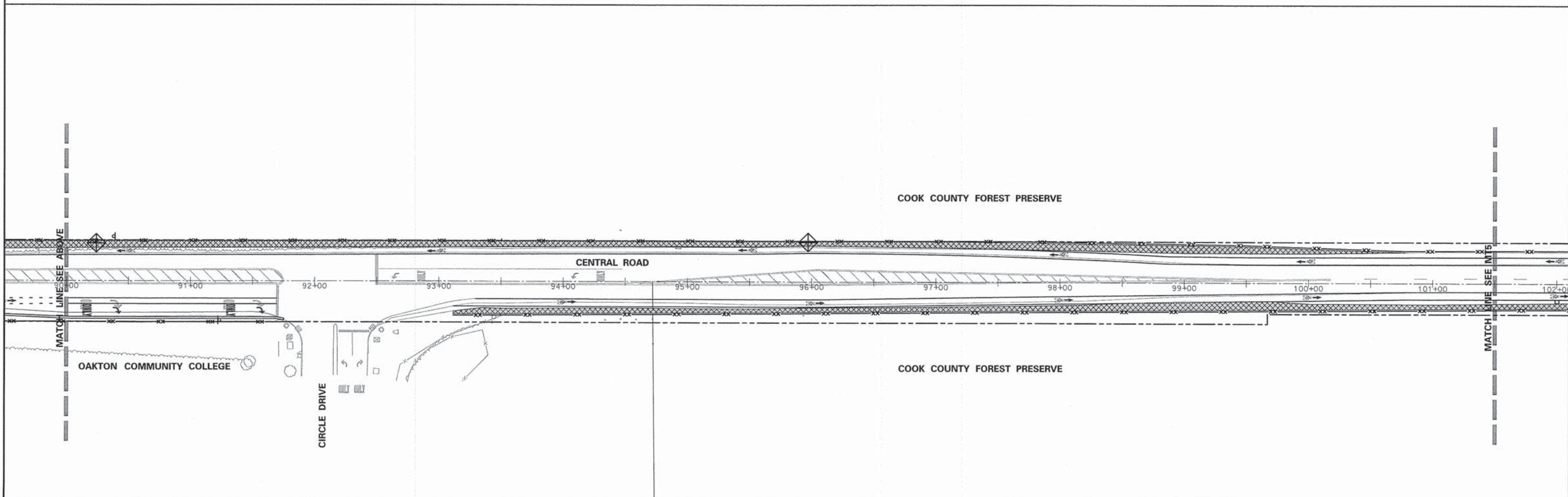
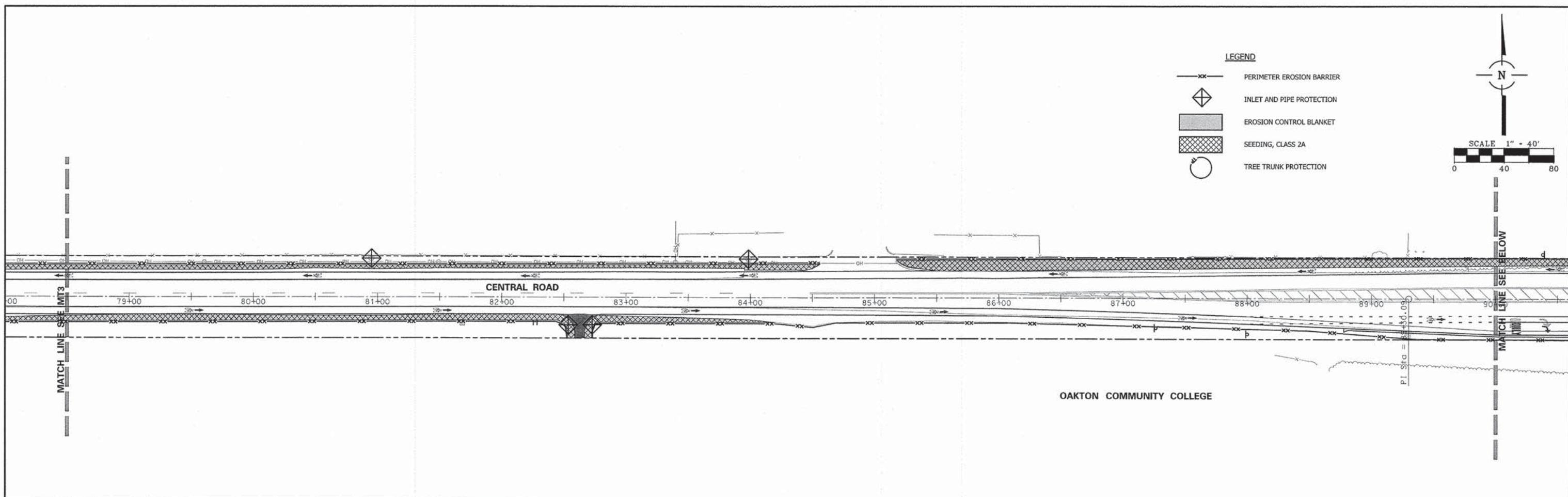
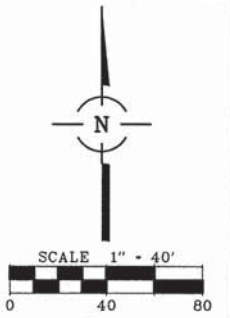
-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION
-  EROSION CONTROL BLANKET
-  SEEDING, CLASS 2A
-  TREE TRUNK PROTECTION



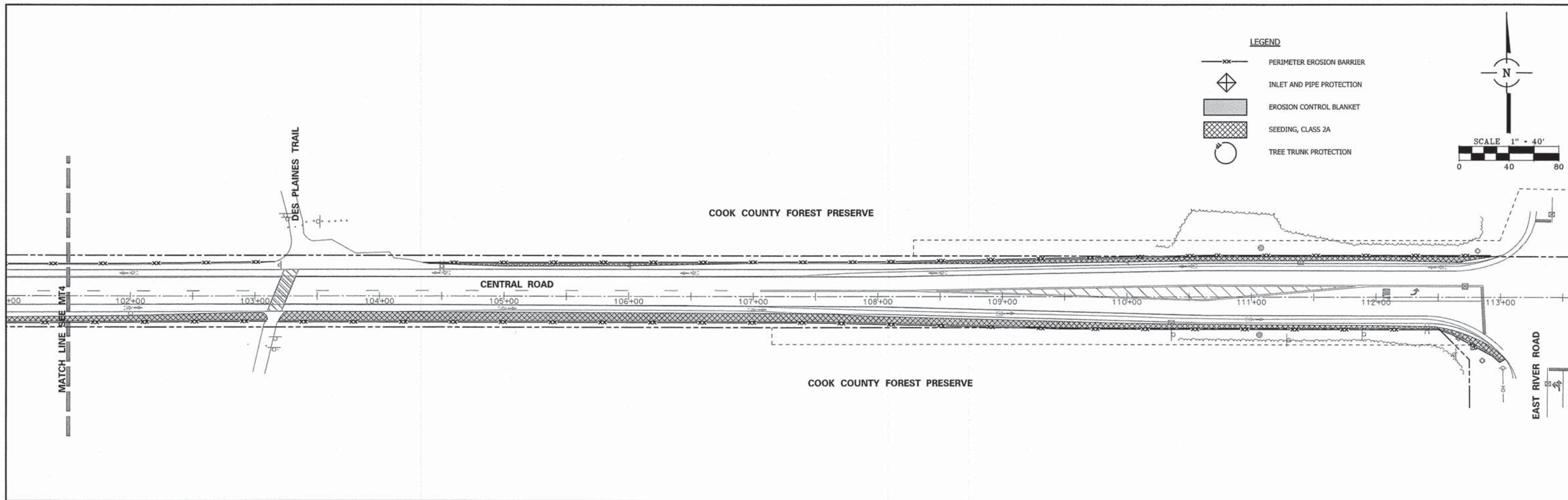
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Default	PLOT SCALE = 1:48	CHECKED -	REVISED -			SCALE: 40	SHEET 25 OF 58 SHEETS	STA. 10+77	TO STA. 133+00	CONTRACT NO. 63210		
	PLOT DATE = 1/27/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						

**LEGEND**

- xx— PERIMETER EROSION BARRIER
- ◊ INLET AND PIPE PROTECTION
- ▒ EROSION CONTROL BLANKET
- ▨ SEEDING, CLASS 2A
- TREE TRUNK PROTECTION



FILE NAME = 5795684.DGN	USER NAME = jbocha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE EROSION AND SEDIMENT CONTROL PLAN</b>	F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 26	
Default	PLOT SCALE = 1:48	CHECKED -	REVISED -			SCALE: 40	SHEET 26 OF 58 SHEETS	STA. 10+77 TO STA. 133+00		CONTRACT NO. 63210	
	PLOT DATE = 1/27/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



FILE NAME = 57985085.DGN Default	USER NAME = jbocho	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE EROSION AND SEDIMENT CONTROL PLAN</b>		F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 27
	PLOT SCALE = 1:40	CHECKED -	REVISED -				CONTRACT NO. 63210				
	PLOT DATE = 1/27/2015	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
				SCALE: 40		SHEET 27 OF 58 SHEETS		STA. 10+77 TO STA. 133+00			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2001-032 TS	COOK	23	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

**CONSTRUCTION NOTES:**

- ① REMOVE AND REPLACE EXISTING CONTROLLER AND CABINET. INSTALL NEW TRANSCIVER-FIBER OPTIC AND INDUCTIVE LOOP DETECTORS IN NEW CABINET. RE-USE EXISTING TYPE 'D' FOUNDATION.
- ② REMOVE NEAR RIGHT SIGNAL FACE, 3-SECTION, WITH 8" GREEN & YELLOW LENSES, FROM EXISTING SIGNAL HEAD, 2-FACE.
- ③ REMOVE EXISTING SIGNAL HEAD 1-FACE, 3-SECTION, WITH 8" GREEN & YELLOW LENSES. INSTALL NEW SIGNAL HEAD 1-FACE, 3-SECTION BRACKET MOUNTED.
- ④ REMOVE EXISTING SIGNAL HEAD 1-FACE, 3-SECTION, WITH 8" GREEN & YELLOW LENSES AND TRAFFIC SIGNAL BACKPLATE. INSTALL NEW SIGNAL HEAD 1-FACE, 3-SECTION MAST-ARM MOUNTED AND TRAFFIC SIGNAL BACKPLATE.
- ⑤ REMOVE EXISTING SIGNAL HEAD 2-FACE, 3-SECTION, WITH 8" GREEN & YELLOW LENSES. INSTALL NEW SIGNAL HEAD 1-FACE, 3-SECTION BRACKET MOUNTED.

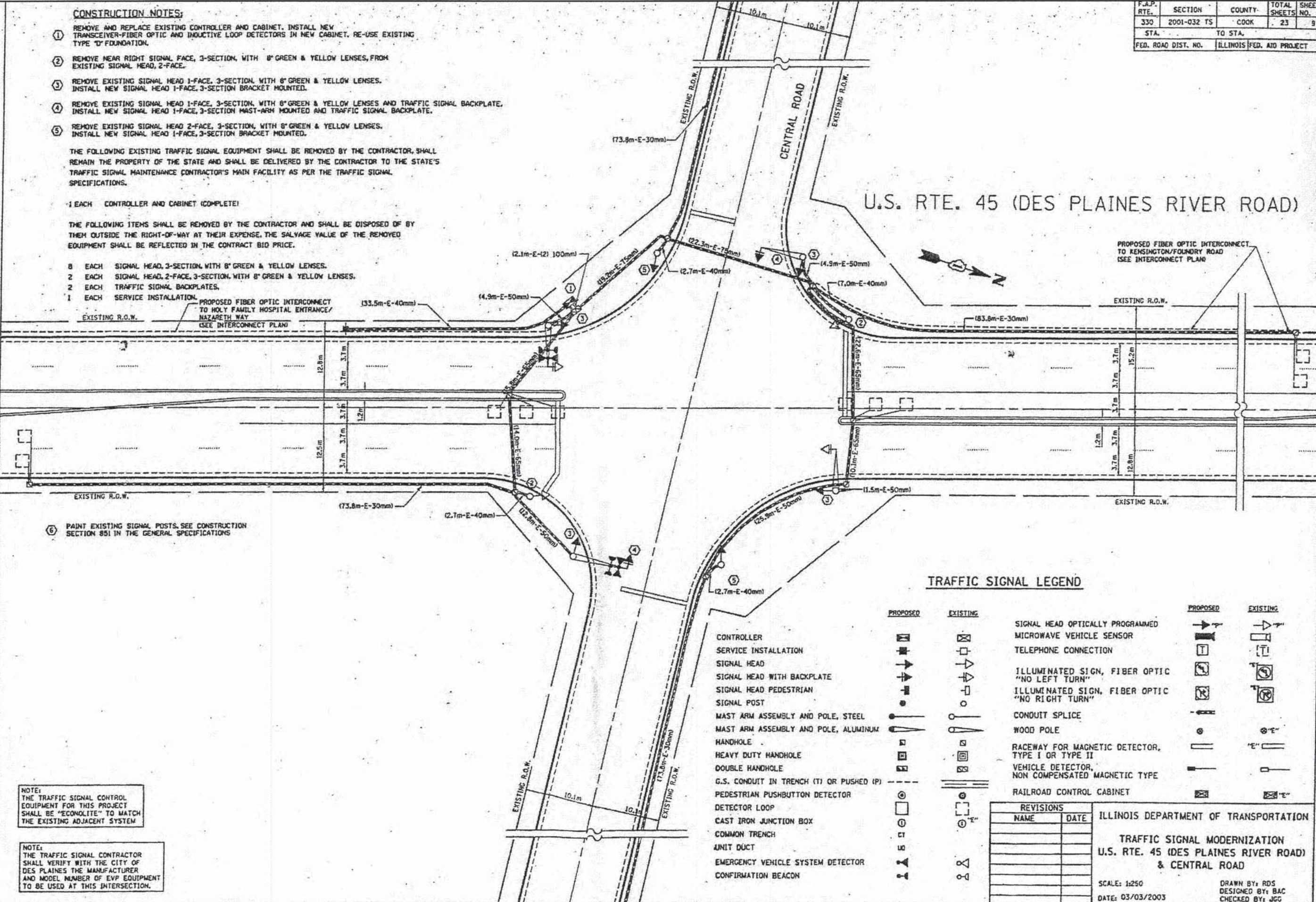
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1 EACH CONTROLLER AND CABINET (COMPLETE)

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.

- 8 EACH SIGNAL HEAD, 3-SECTION, WITH 8" GREEN & YELLOW LENSES.
- 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION, WITH 8" GREEN & YELLOW LENSES.
- 2 EACH TRAFFIC SIGNAL BACKPLATES.
- 1 EACH SERVICE INSTALLATION.

PROPOSED FIBER OPTIC INTERCONNECT TO HOLY FAMILY HOSPITAL ENTRANCE/ NAZARETH WAY (SEE INTERCONNECT PLAN)



⑥ PAINT EXISTING SIGNAL POSTS. SEE CONSTRUCTION SECTION 851 IN THE GENERAL SPECIFICATIONS

**TRAFFIC SIGNAL LEGEND**

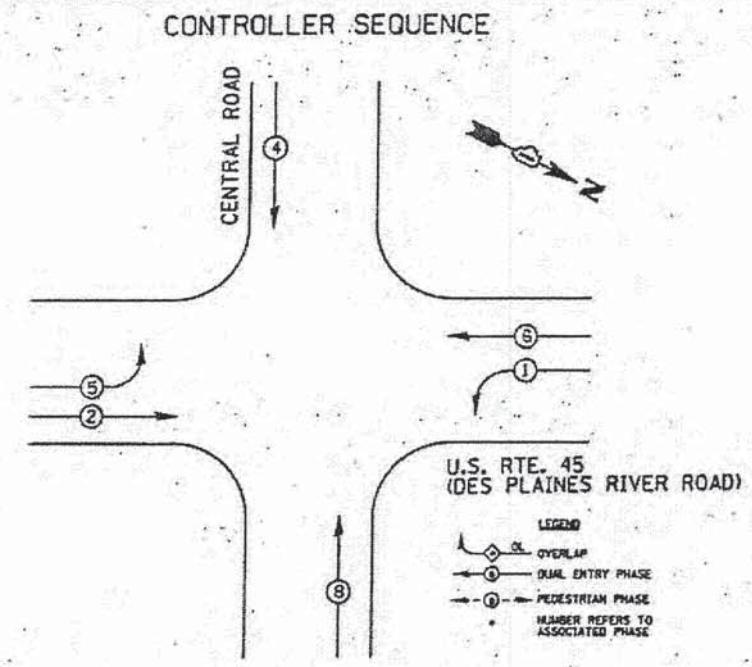
	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]	MICROWAVE VEHICLE SENSOR	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]	TELEPHONE CONNECTION	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]	CONDUIT SPLICE	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]	WOOD POLE	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]	VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]	RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]			
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	[Symbol]	[Symbol]			
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]			
DETECTOR LOOP	[Symbol]	[Symbol]			
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]			
COMMON TRENCH	[Symbol]	[Symbol]			
UNIT DUCT	[Symbol]	[Symbol]			
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]			
CONFIRMATION BEACON	[Symbol]	[Symbol]			

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

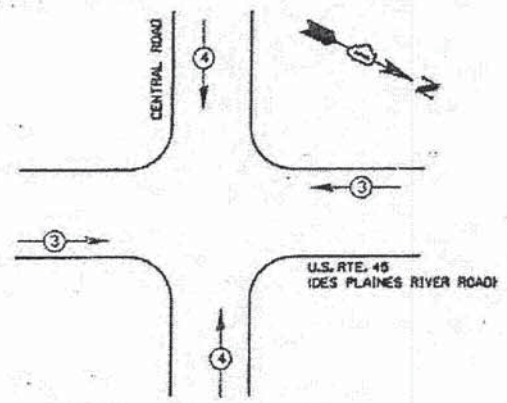
NOTE: THE TRAFFIC SIGNAL CONTRACTOR SHALL VERIFY WITH THE CITY OF DES PLAINES THE MANUFACTURER AND MODEL NUMBER OF EVP EQUIPMENT TO BE USED AT THIS INTERSECTION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL MODERNIZATION**  
**U.S. RTE. 45 (DES PLAINES RIVER ROAD)**  
**& CENTRAL ROAD**  
 SCALE: 1/250  
 DATE: 03/03/2003  
 DRAWN BY: RDS  
 DESIGNED BY: BAC  
 CHECKED BY: JGG



### PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

### EMERGENCY VEHICLE PREEMPTION SEQUENCE

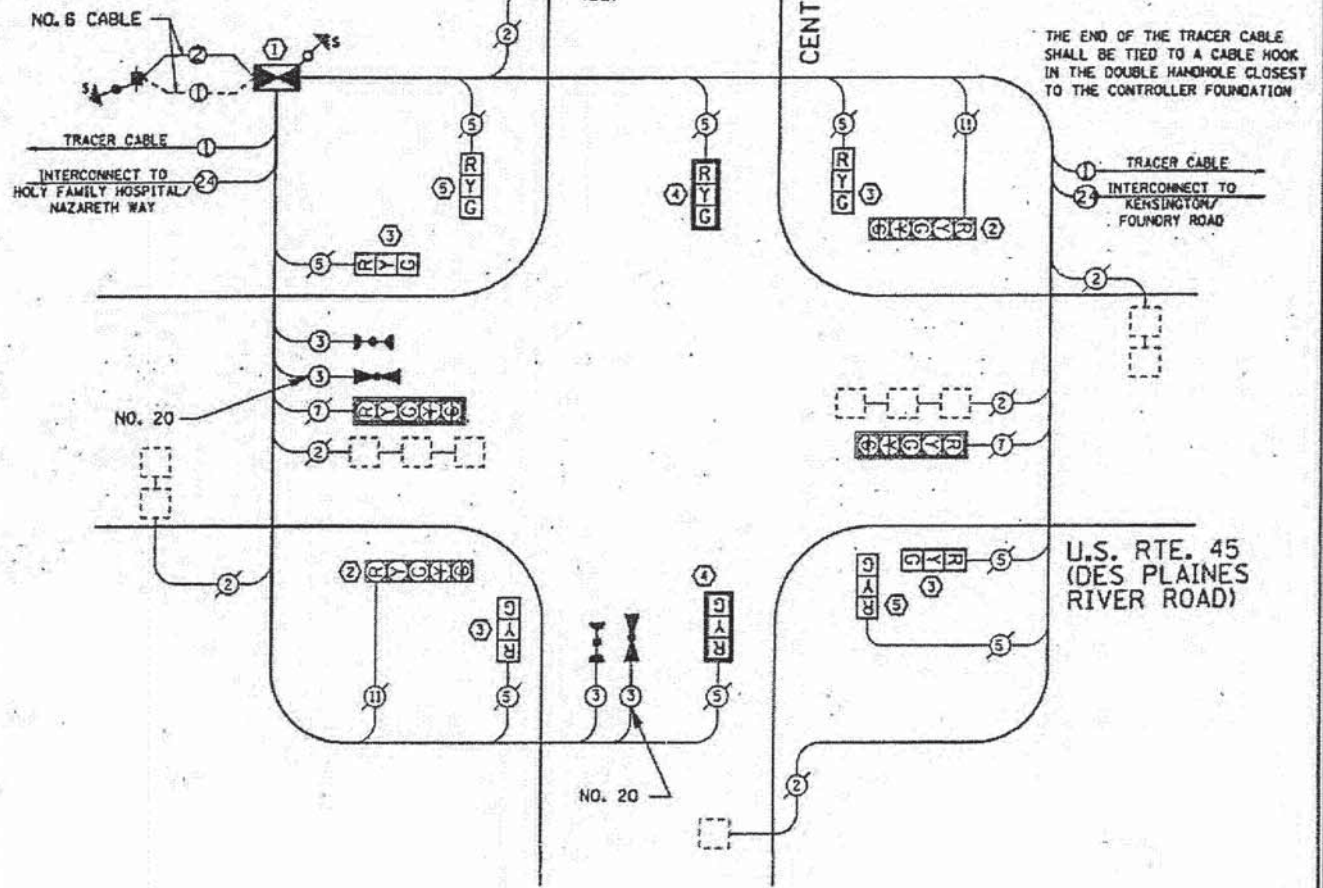
### CABLE PLAN LEGEND

- |  |   |
|--|---|
|  | 8" (200mm) TRAFFIC SIGNAL SECTION   |
|  | 12" (300mm) TRAFFIC SIGNAL SECTION  |
|  | 12" (300mm) PEDESTRIAN SIGNAL SECTION   |
|  | CONTROLLER CABINET  |
|  | SERVICE INSTALLATION  |
|  | TELEPHONE CONNECTION  |
|  | VEHICLE DETECTOR, INDUCTION LOOP  |
|  | MAGNETIC DETECTOR   |
|  | EMERGENCY VEHICLE LIGHT DETECTOR  |
|  | CONFIRMATION BEACON   |
|  | PUSHBUTTON DETECTOR   |
|  | 2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
|  | 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)  |
|  | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 254-12F SMI2F  |
|  | 1 SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.  |
|  | RAILROAD CONTROL CABINET  |
|  | ILLUMINATED SIGN "NO LEFT TURN"   |
|  | ILLUMINATED SIGN "NO RIGHT TURN"  |
|  | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HH), OR CONTROLLER (C)   |
|  | GROUND ROD AT POST (P) OR MAST ARM POLE (MA)  |
|  | GROUND ROD AT SERVICE INSTALLATION  |

### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
0.20	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201
0.20	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406
0.20	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCIVER - 2 FIBER OPTIC
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE
6	EACH	INDUCTIVE LOOP DETECTOR
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
35	METER	THERMOPLASTIC PAYEMENT MARKING - LINE 600MM
90	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C
38.6	METER	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 14 6C
38.6	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
90	METER	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED
1	EACH	SERVICE INSTALLATION, GROUND MOUNT

• 100% COST TO THE CITY OF DES PLAINES



### CABLE PLAN

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

NOTE: THE TRAFFIC SIGNAL CONTRACTOR SHALL VERIFY WITH THE CITY OF DES PLAINES THE MANUFACTURER AND MODEL NUMBER OF EVP EQUIPMENT TO BE USED AT THIS INTERSECTION.

### CONSTRUCTION NOTES:

- REMOVE AND REPLACE EXISTING CONTROLLER AND CABINET. INSTALL NEW TRANSCIVER-FIBER OPTIC AND INDUCTIVE LOOP DETECTORS IN NEW CABINET. RE-USE EXISTING TYPE "D" FOUNDATION.
- REMOVE NEAR RIGHT SIGNAL FACE, 3-SECTION, WITH 8" GREEN & YELLOW LENSES, FROM EXISTING SIGNAL HEAD, 2-FACE.
- REMOVE EXISTING SIGNAL HEAD 1-FACE, 3-SECTION, WITH 8" GREEN & YELLOW LENSES. INSTALL NEW SIGNAL HEAD 1-FACE, 3-SECTION BRACKET MOUNTED.
- REMOVE EXISTING SIGNAL HEAD 1-FACE, 3-SECTION, WITH 8" GREEN & YELLOW LENSES AND TRAFFIC SIGNAL BACKPLATE. INSTALL NEW SIGNAL HEAD 1-FACE, 3-SECTION MAST-ARM MOUNTED AND TRAFFIC SIGNAL BACKPLATE.
- REMOVE EXISTING SIGNAL HEAD 2-FACE, 3-SECTION, WITH 8" GREEN & YELLOW LENSES. INSTALL NEW SIGNAL HEAD 1-FACE, 3-SECTION BRACKET MOUNTED.

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

TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	OPERATION (%)	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	810
(YELLOW)	12	135	25	0.25	405
(GREEN)	12	135	15	0.25	405
ARROW	6	135	12	0.10	108
PED. SIGNAL	90	25	1.00		
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		64		0.05	
FLASHER				0.50	
ENERGY COSTS TO: CITY OF DES PLAINES					TOTAL = 1828

ENERGY SUPPLY CONTACT: AMADORVILLE PHONE: 647-878-6486 COMPANY: CDM ED

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.8 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' 4"-24" (6.0m-5.8m)
E - M. ARM POLE		SIGNAL POST	3 (1.0)		
24" (190mm)	10 (3.0)	CONTROLLER CAB.	1 (0.3)	BRACKET MOUNTED	13 (4.0)
20" (175mm)	12 (4.6)	FIBER OPTIC	13 (4.0)	PED. BUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.3)	ELECTRIC SERVICE	13.9 (4.1)
		GROUND CABLE	1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PHASE DESIGNATION DIAGRAM,  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE,  
 CABLE PLAN AND SCHEDULE OF QUANTITIES  
 U.S. RTE 45 (DES PLAINES RIVER RD.)  
 & CENTRAL ROAD

SCALE: NONE  
 DATE: 03/03/2003

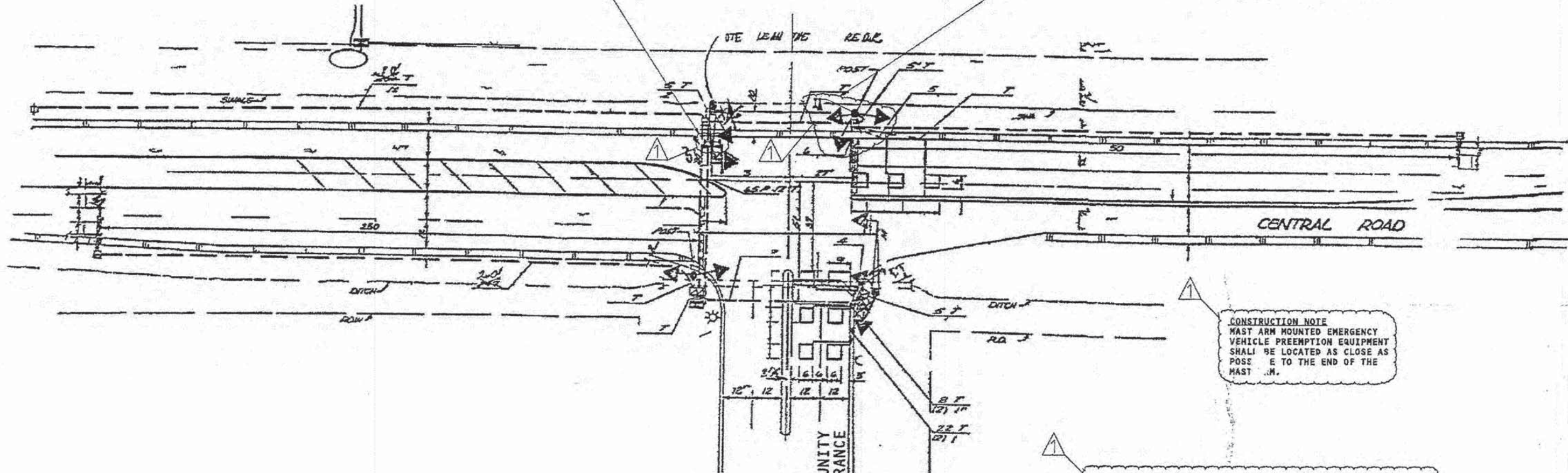
DRAWN BY: RDS  
 DESIGNED BY: BAC  
 CHECKED BY: JGG



SCALE: 1"=20'

INSTALL EMERGENCY VEHICLE SYSTEM DETECTORS AND CONFIRMATION BEACONS

REMOVE EXISTING TRAFFIC SIGNAL POST AND SIGNAL HEADS. INSTALL NEW 18' POST ON EXISTING FOUNDATION, EMERGENCY VEHICLE SYSTEM DETECTOR AND CONFIRMATION BEACON. RELOCATE EXISTING 2 3-SECTION HEADS AND 5-SECTION HEADS TO NEW POST. REUSE EXISTING SIGNAL HEAD CABLE.



CONSTRUCTION NOTE  
MAST ARM MOUNTED EMERGENCY VEHICLE PREEMPTION EQUIPMENT SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE END OF THE MAST ARM.

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 TRAFFIC SIGNAL POST

THE LIGHT DETECTORS AND LIGHT DETECTOR AMPLIFIERS FOR THIS PROJECT SHALL BE "OPTICOM, 700 SERIES" AS MANUFACTURED BY 3M CORPORATION TO MEET LOCAL FIRE DEPARTMENT REQUIREMENTS.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]	DETECTOR LOOP	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]	CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]	CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]	CONDUIT SPLICE	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]	WOOD POLE	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]	VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]	RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]	TELEPHONE CONNECTION	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]			
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]			
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]			



**METRO TRANSPORTATION GROUP, INC.**  
TRAFFIC ENGINEERING, TRANSPORTATION PLANNING  
SIGNAL SYSTEMS/DESIGN

REVISIONS		
NO.	DATE	DESCRIPTION
1	11-29-06	ADD E.V.P. METRO TRANSPORTATION GROUP, INC.
2	02-23-09	SEQUENCE REVISIONS
3	07-10-09	CONTRACT REVISIONS

**EMERGENCY VEHICLE PREEMPTION INSTALLATION PLAN**

CENTRAL ROAD AT OAKTON COMMUNITY COLLEGE ENTRANCE

FILE NAME: 07\_sp.dgn  
DATE: NOV. 7, 2007  
SHEET NO.: 7

FILE NAME = 5798TRAFFSIGNAL.dgn  
Default

USER NAME = jbaaha  
PLOT SCALE = 1:1  
PLOT DATE = 1/27/2015

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS (FOR INFORMATION ONLY)

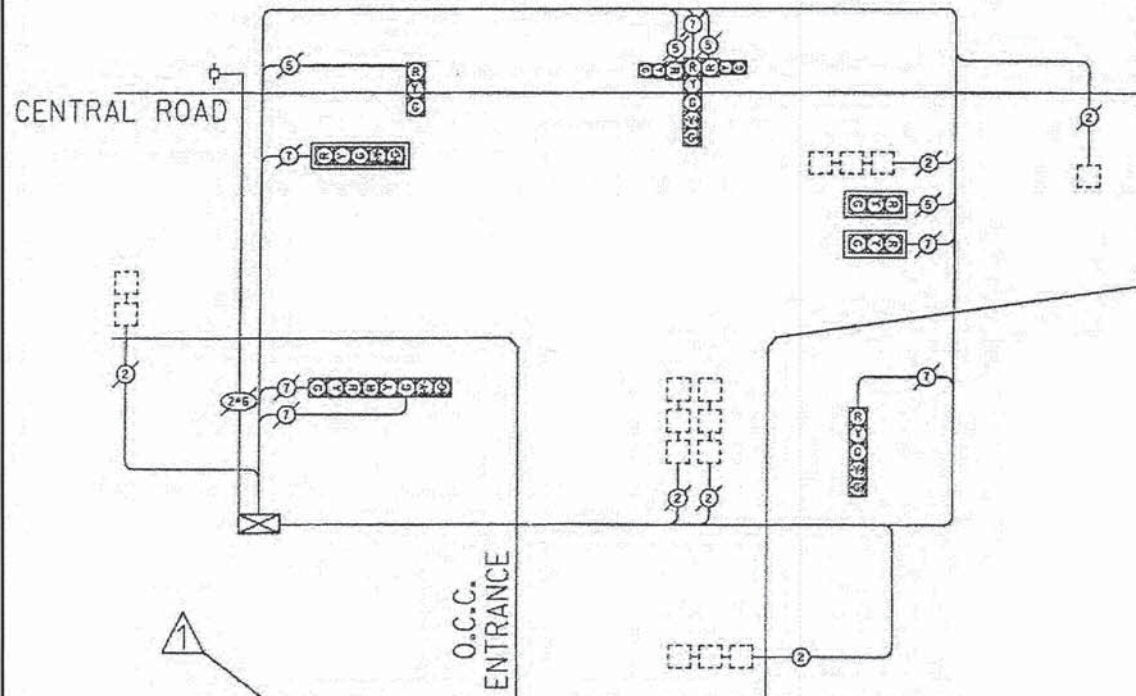
SCALE: 40 SHEET 30 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	08-00201-00-BT	COOK	58	30

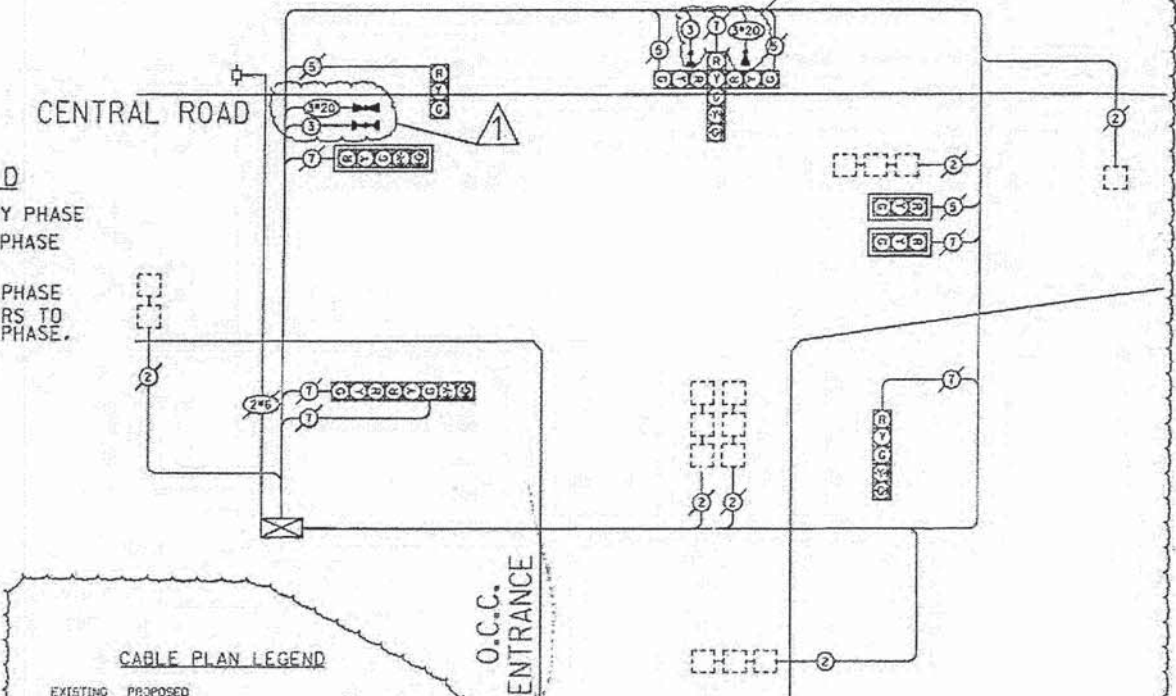
CONTRACT NO. 63210  
ILLINOIS FED. AID PROJECT



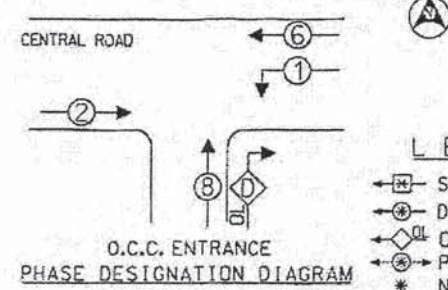
EXISTING CABLE PLAN



PROPOSED CABLE PLAN



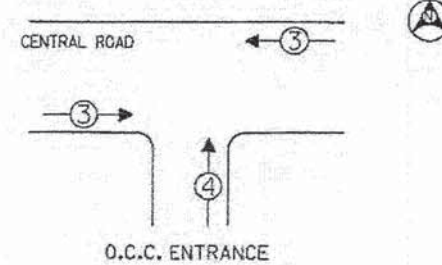
EXISTING AND PROPOSED CONTROLLER SEQUENCE



- LEGEND**
- ◻ SINGLE ENTRY PHASE
  - ◻ DUAL ENTRY PHASE
  - ◻ OVERLAP
  - ◻ PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE.

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	=	B + T

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←→	↑↓

CABLE PLAN LEGEND

- | EXISTING | PROPOSED | DESCRIPTION  |
|----------|----------|--|
| ◻        | ◻        | 8" (200mm) TRAFFIC SIGNAL SECTION                                  |
| ◻        | ◻        | 12" (300mm) TRAFFIC SIGNAL SECTION                                 |
| ◻        | ◻        | 12" (300mm) PEDESTRIAN SIGNAL SECTION                              |
| ◻        | ◻        | 12" (300mm) PEDESTRIAN SIGNAL SECTION                              |
| ◻        | ◻        | CONTROLLER CABINET   |
| ◻        | ◻        | SERVICE INSTALLATION   |
| ◻        | ◻        | TELEPHONE CONNECTION   |
| ◻        | ◻        | VEHICLE DETECTOR, INDUCTION LOOP                                   |
| ◻        | ◻        | MAGNETIC DETECTOR  |
| ◻        | ◻        | EMERGENCY VEHICLE LIGHT DETECTOR                                   |
| ◻        | ◻        | CONFIRMATION BEACON  |
| ◻        | ◻        | PUSHBUTTON DETECTOR  |
| ◻        | ◻        | DENOTES NUMBER OF CONDUCTORS.                                      |
| ◻        | ◻        | ALL CABLE NO. 14 EXCEPT AS INDICATED.                              |
| ◻        | ◻        | ALL LOOP DETECTOR CABLE TO BE SHIELDED.                            |
| ◻        | ◻        | GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)                |
| ◻        | ◻        | NO. 62.5/125 MM 12F & 5M 12F, FIBER OPTIC CABLE                    |
| ◻        | ◻        | SIGNAL FACE WITH BACKPLATE   |
| ◻        | ◻        | * INDICATES PROGRAMMED HEAD  |
| ◻        | ◻        | RAILROAD CONTROL CABINET   |
| ◻        | ◻        | ILLUMINATED SIGN, FIBER OPTIC                                      |
| ◻        | ◻        | "NO LEFT TURN"   |
| ◻        | ◻        | ILLUMINATED SIGN, FIBER OPTIC                                      |
| ◻        | ◻        | "NO RIGHT TURN"  |
| ◻        | ◻        | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HD) OR CONTROLLER (C) |
| ◻        | ◻        | GROUND ROD AT POST (P) OR MAST ARM POLE (MA)                       |
| ◻        | ◻        | GROUND ROD AT ELECTRIC SERVICE INSTALLATION                        |

SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
0.11	L SUM	TRAFFIC CONTROL AND PROTECTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
435	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
435	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
3	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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 ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOVED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG, AND ALL DAMAGE TO UNMOVED FIELDS SHALL BE SEEDER IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



**METRO TRANSPORTATION GROUP, INC.**  
 TRAFFIC ENGINEERING, TRANSPORTATION PLANNING  
 SIGNAL SYSTEMS/DESIGN

REVISIONS

NO.	DATE	DESCRIPTION
1	11-29-06	ADD EVP-METRO TRANSPORTATION GROUP, INC.
2	02-23-09	SEQUENCE REVISIONS

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES

FILE NAME: 08\_cp.dgn  
 SHEET NO.: 8  
 DATE: NOV. 7, 2007

FILE NAME = 5798TRAFFSIGNAL04.dgn  
 USER NAME = jbocha  
 PLOT SCALE = 1:1  
 PLOT DATE = 1/27/2015

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

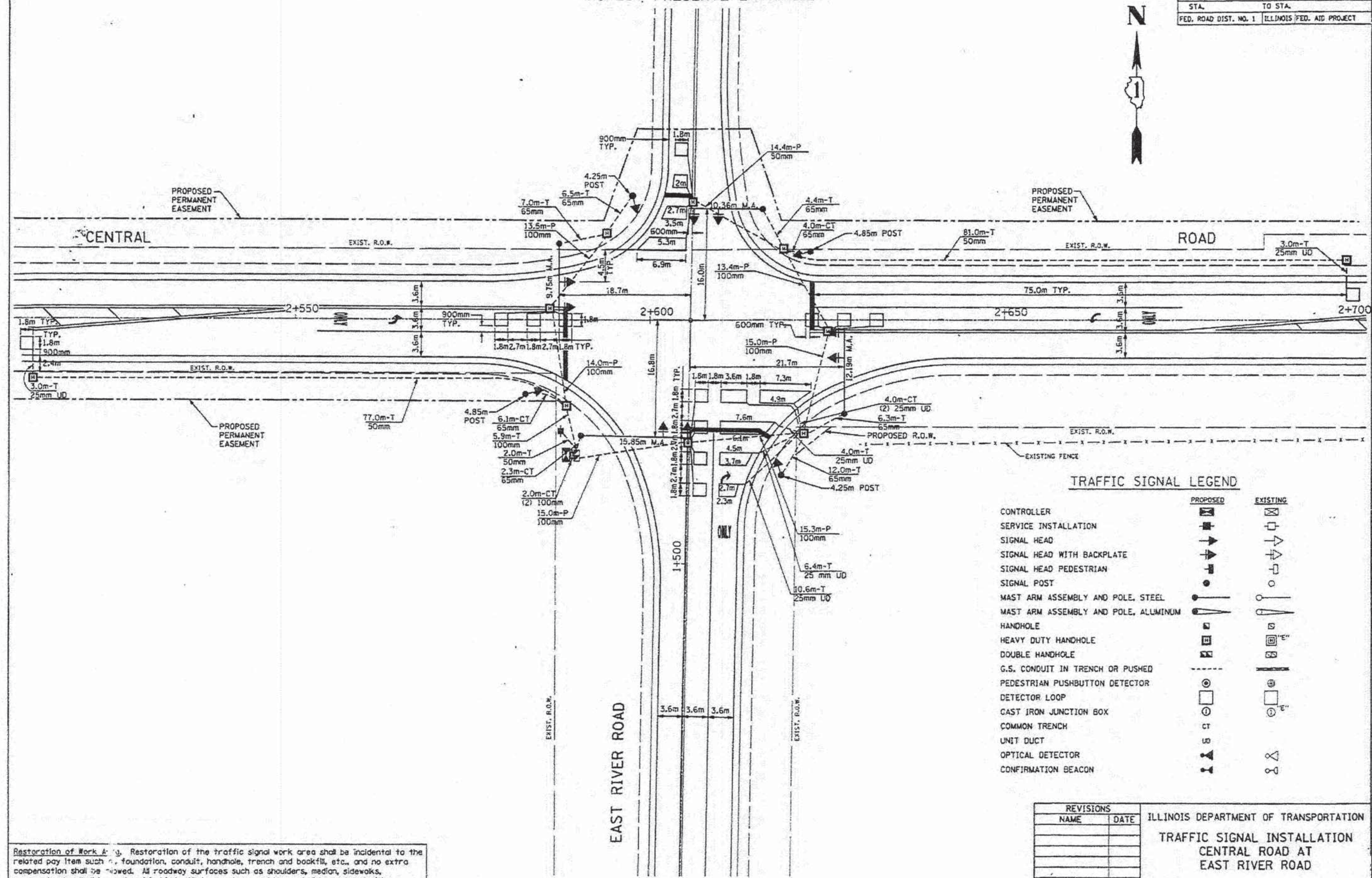
TRAFFIC SIGNAL PLANS (FOR INFORMATION ONLY)

SCALE: 40 SHEET 31 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 1300 08-00201-00-BT COOK 58 31  
 CONTRACT NO. 63210  
 ILLINOIS FED. AID PROJECT

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	1922RS-2	COOK	55	23
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			

FOREST PRESERVE ENTRANCE



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
OPTICAL DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]

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, median, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 30 respectively.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>TRAFFIC SIGNAL INSTALLATION</b> <b>CENTRAL ROAD AT</b> <b>EAST RIVER ROAD</b>

SCALE: 1:250  
DATE: 6/30/00

DRAWN BY SPB/RWP  
DESIGN BY JWF  
CHECKED BY DAD

FILE NAME = 5798TRAFFSIGNAL08.dgn	USER NAME = jbacha	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

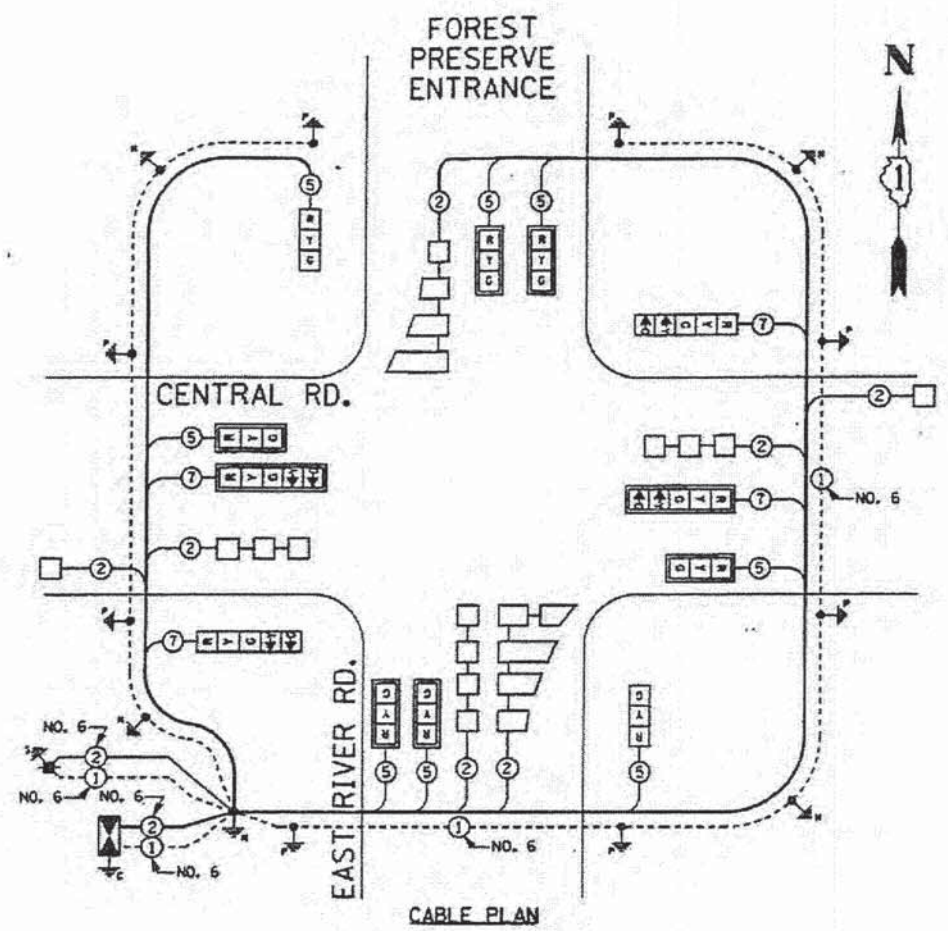
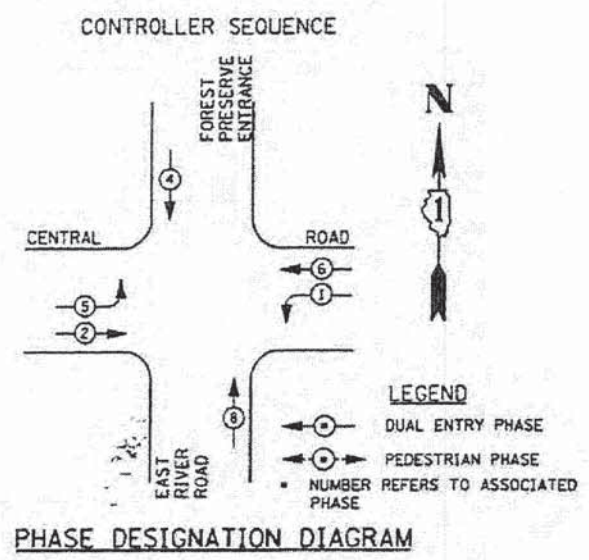
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS (FOR INFORMATION ONLY)

SCALE: 40 SHEET 32 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	08-00201-00-BT	COOK	58	32
CONTRACT NO. 63210			ILLINOIS FED. AID PROJECT	





**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" (200mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	TELEPHONE CONNECTION
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
[Symbol]	[Symbol]	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
[Symbol]	[Symbol]	GROUND ROD AT POST OR MAST ARM POLE
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol]	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
[Symbol]	[Symbol]	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F

**SCHEDULE OF QUANTITIES**

QTY.	UNITS	ITEM DESCRIPTION	QTY.	UNITS	ITEM DESCRIPTION
10.0	EACH	HEAVY-DUTY HANDHOLE	86.2	METER	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL
1.0	EACH	DOUBLE HANDHOLE	157.1	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C (GREEN)
2.0	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED	486.4	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
6.0	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED	239.6	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2.0	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED	498.7	METER	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
2.0	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED	11.3	METER	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
8.0	EACH	TRAFFIC SIGNAL BACKPLATE	2.0	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.25 METER
7.0	EACH	INDUCTIVE LOOP DETECTOR	2.0	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER
1.0	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	1.0	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 9.75 METER
1.0	EACH	SERVICE INSTALLATION, POLE MOUNT	1.0	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 10.36 METER
3.08	SQ M	SIGN PANEL-TYPE 1	1.0	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 12.19 METER
160.0	METER	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	1.0	EACH	STEEL MAST ARM ASSEMBLY AN POLE, 15.85 METER
48.5	METER	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	4.8	METER	CONCRETE FOUNDATION, TYPE A
9.9	METER	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	1.2	METER	CONCRETE FOUNDATION, TYPE D
14.4	METER	CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	18.4	METER	CONCRETE FOUNDATION, TYPE E 750MM DIAMETER
			244.7	METER	DETECTOR LOOP, TYPE I
			204.1	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK

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

TYPE	NO. LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	0.50	810.0
(YELLOW)	12	135	0.25	405.0
(GREEN)	12	135	0.25	405.0
ARROW	8	135	0.10	108.0
PED. SIGNAL		90	1.00	
CONTROLLER	1	100	1.00	100.0
ILLUM. SIGN			0.50	
TOTAL =				1828.0

ENERGY COSTS TO: TOTAL = 1828.0

ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: JUDY SCHOMER  
PHONE: (847) 870-2063  
COMPANY: Com Ed

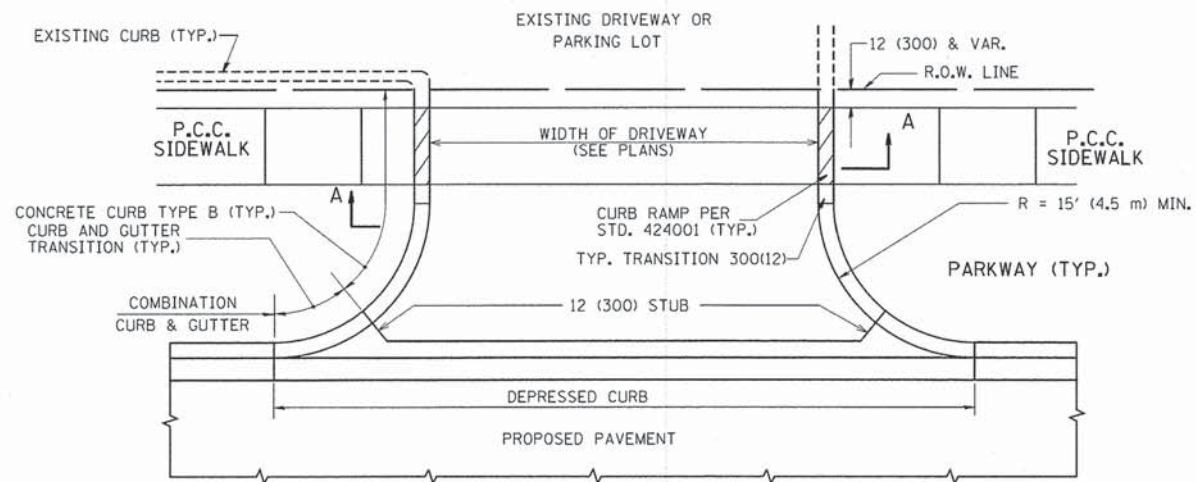
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2" (6m+1-1.0m)
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED SERVICE	6 (1.8)

ILLINOIS DEPARTMENT OF TRANSPORTATION

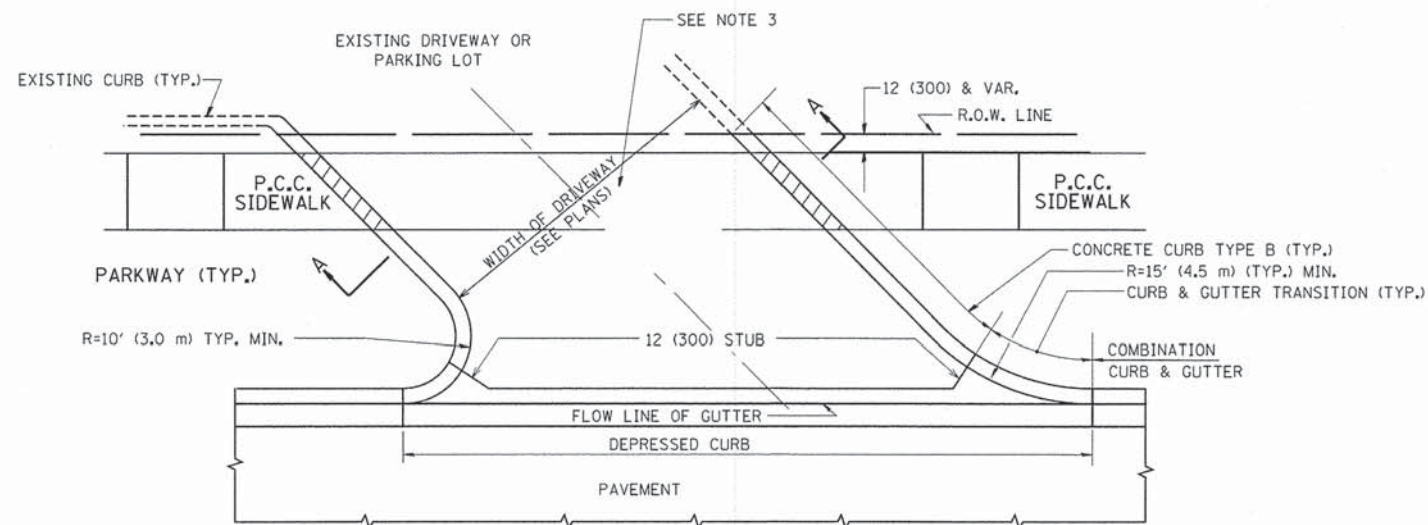
**CABLE PLAN PHASE DESIGNATION DIAGRAM SCHEDULE OF QUANTITIES CENTRAL ROAD AT EAST RIVER ROAD**

SCALE: NONE  
DATE: 6/1/00

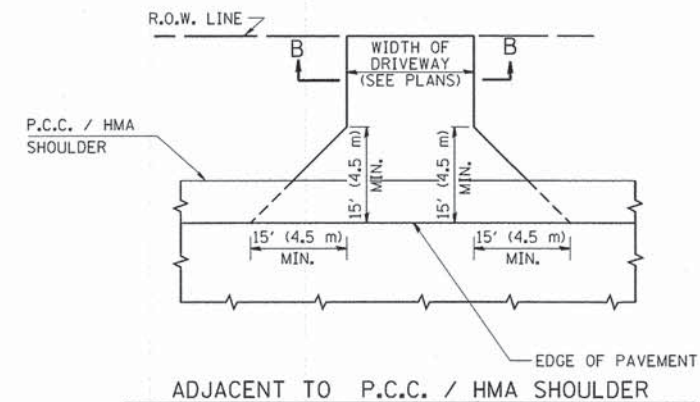
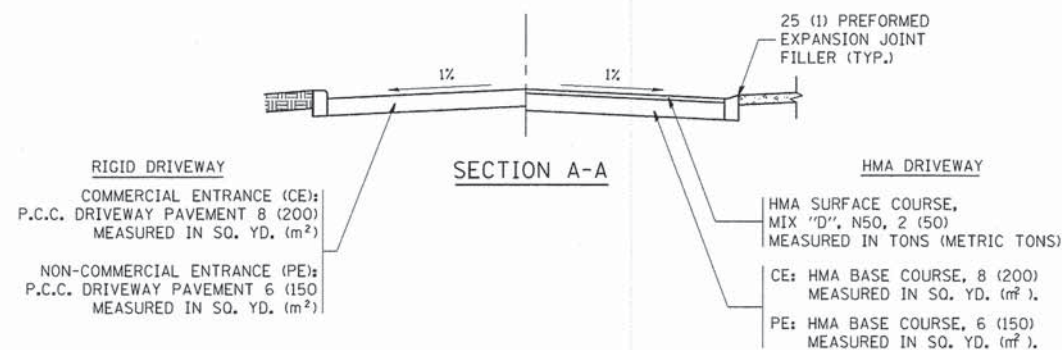
DRAWN BY: SPB  
DESIGNED BY: JHE  
CHECKED BY: DAD



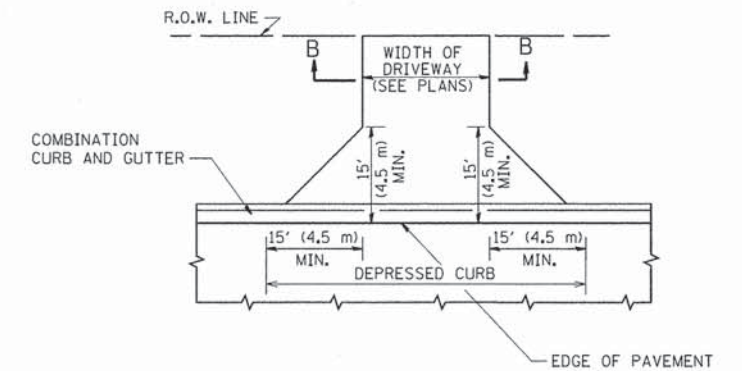
WITH CONCRETE CURB, TYPE B



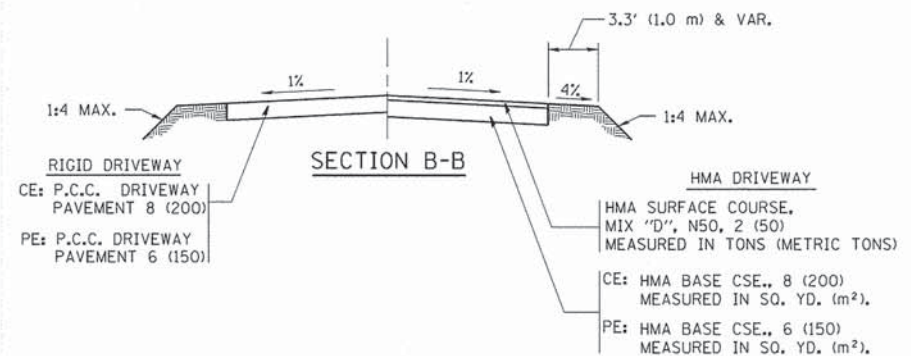
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

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

AGGREGATE BASE CSE., TYPE B, 8 (200)  
MEASURED IN SQ. YD. (m<sup>2</sup>).

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.

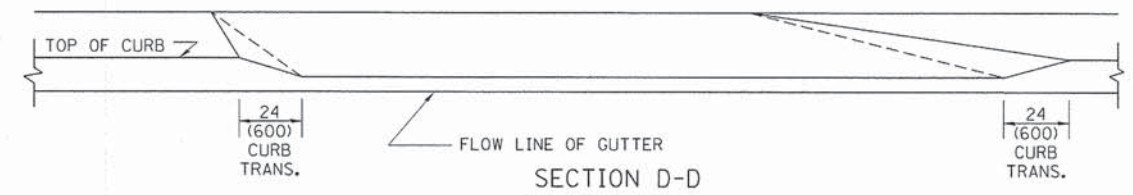
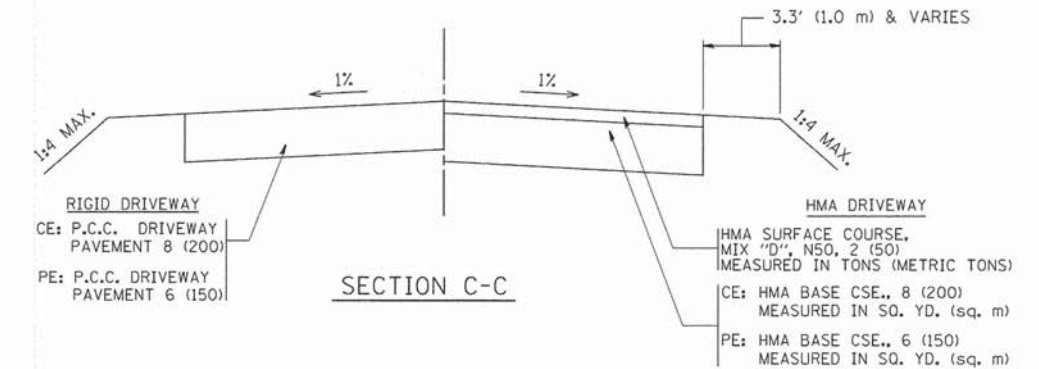
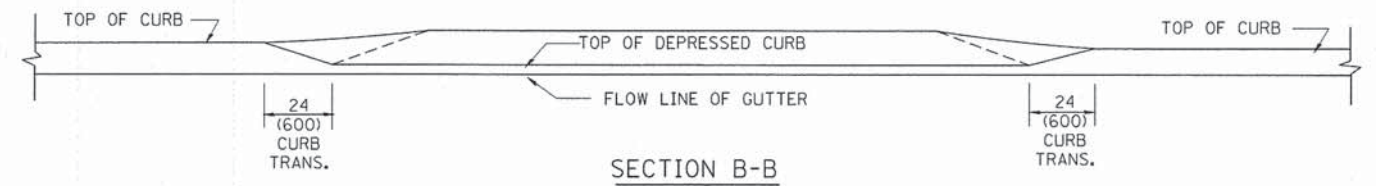
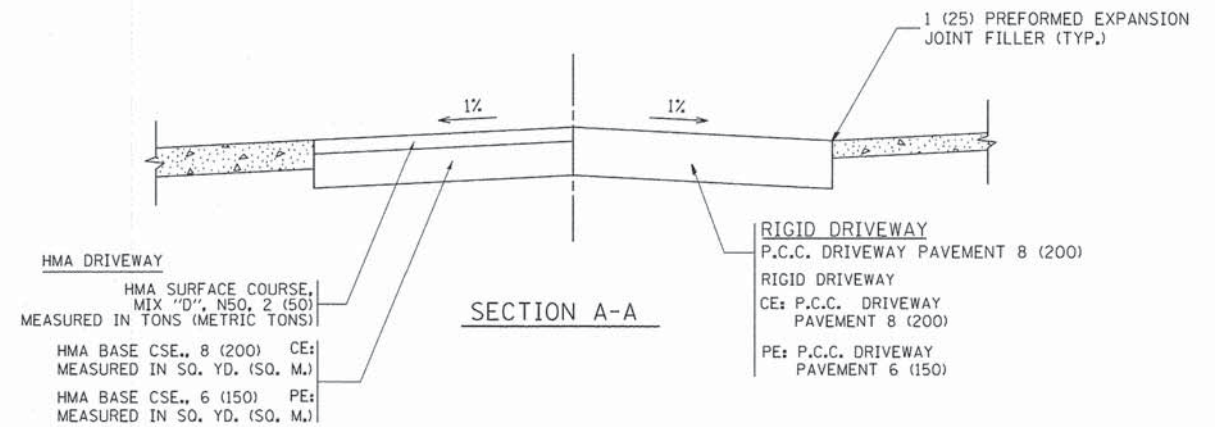
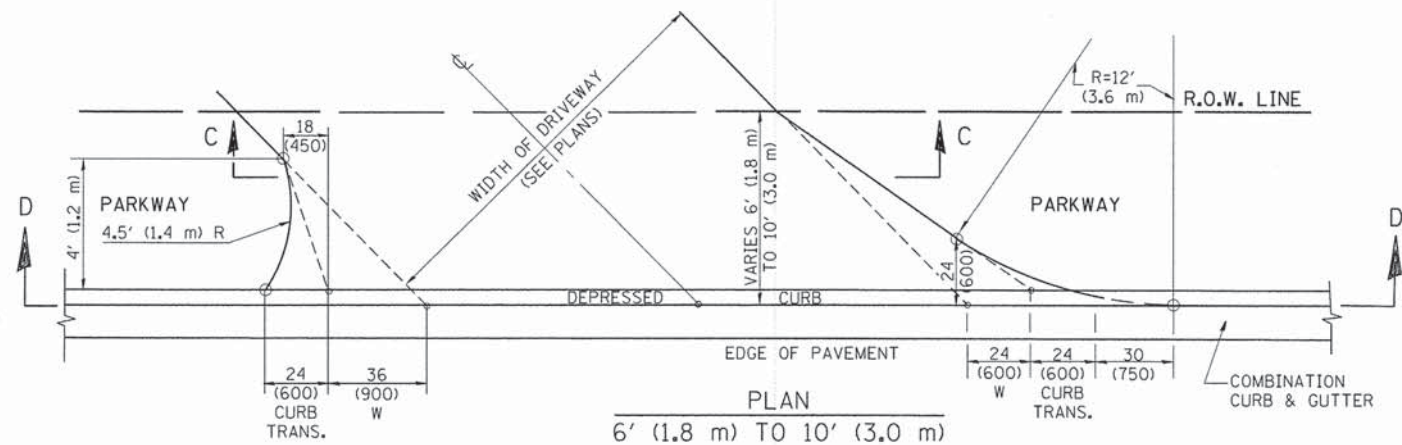
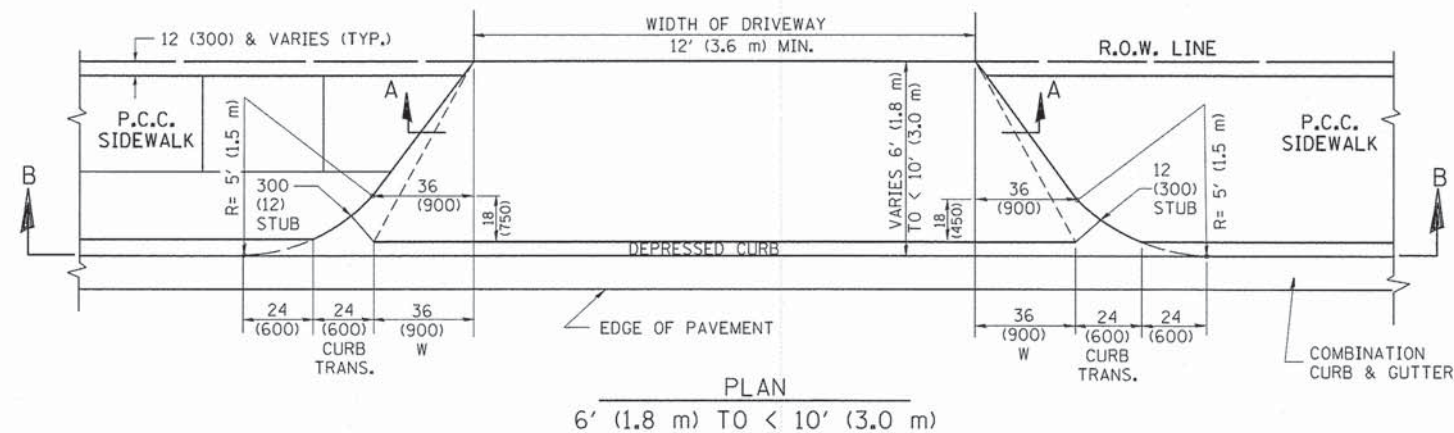
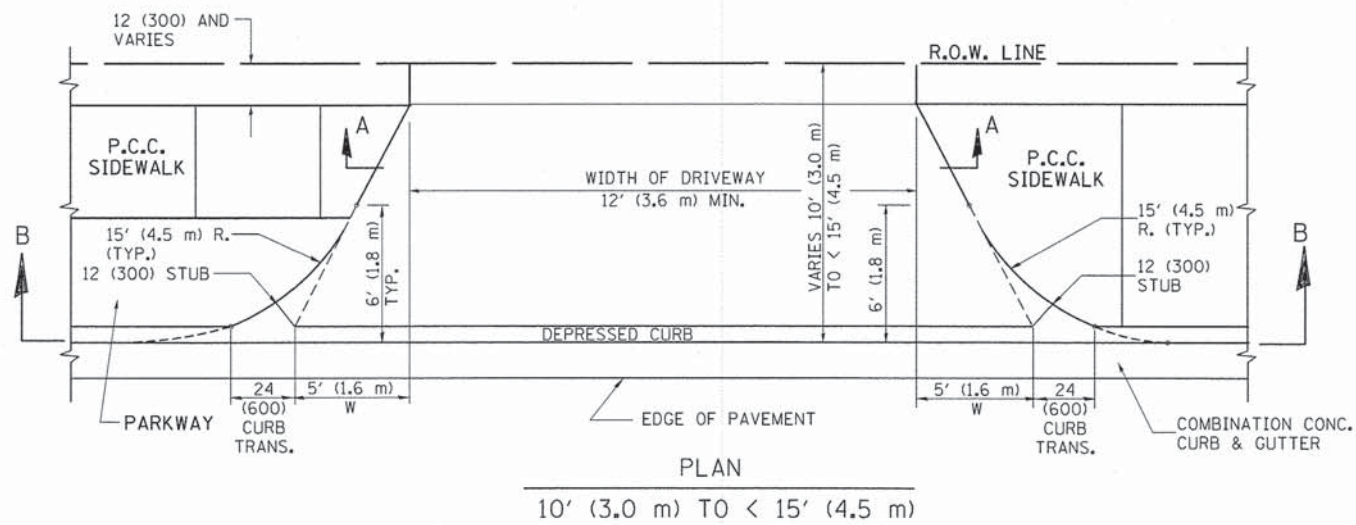
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		DRAWN -	REVISED - R. BORO 01-01-07
		CHECKED -	REVISED - R. BORO 06-11-08
		DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.  
AND FACE OF CURB & EDGE OF SHOULDER >= 15'(4.5 m)

SCALE: 40 SHEET 34 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	08-00201-00-BT	COOK	58	34
BDO156-07 (BD-01)			CONTRACT NO. 63210	
ILLINOIS FED. AID PROJECT				



**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 ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF 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.

THE 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.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

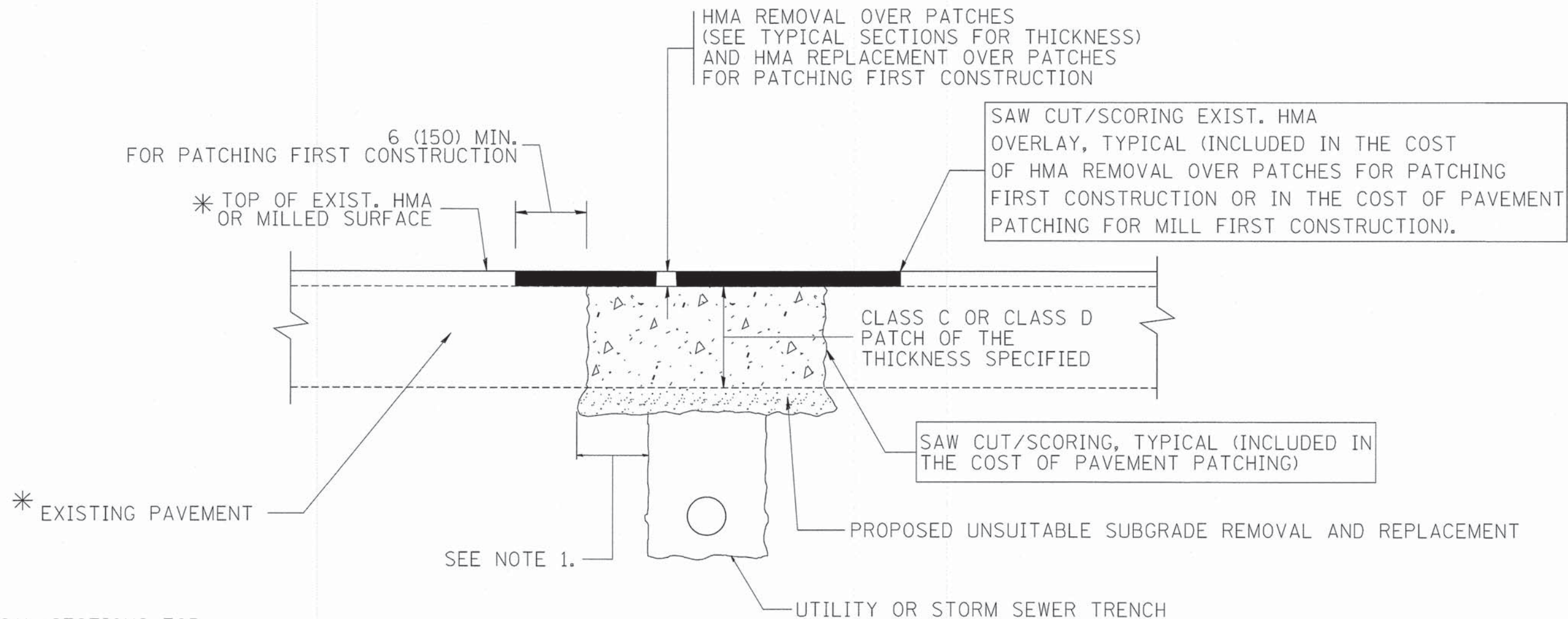
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		DRAWN -	REVISED - P. LAFLEUR 04-15-03
	PLOT SCALE = 1:1	CHECKED -	REVISED - R. BORO 01-01-07
Defaults	PLOT DATE = 1/27/2015	DATE = 11-06-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS  
DISTANCE BETWEEN ROW AND FACE OF CURB < 15'(4.5 m)**

SCALE: 40 SHEET 35 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	08-00201-00-BT	COOK	58	35
BD400-02 (BD02)			CONTRACT NO. 63210	
ILLINOIS FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME = 57864r3.dgn	USER NAME = jbocha	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 1:1	DRAWN -	REVISED - R. BORO 01-01-07		1300	08-00201-00-BT	COOK	58	36			
	PLOT DATE = 1/27/2015	CHECKED -	REVISED - R. BORO 09-04-07		SCALE: 40		SHEET 36 OF 58 SHEETS		STA. 10+77 TO STA. 133+00		CONTRACT NO. 63210	
		DATE - 10-25-94	REVISED - K. ENG 10-27-08		ILLINOIS FED. AID PROJECT							

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

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

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

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

18" (450) MAX.

1/4" (5) \*\*

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

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

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

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

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

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.  
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

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

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

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

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

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

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

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

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

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

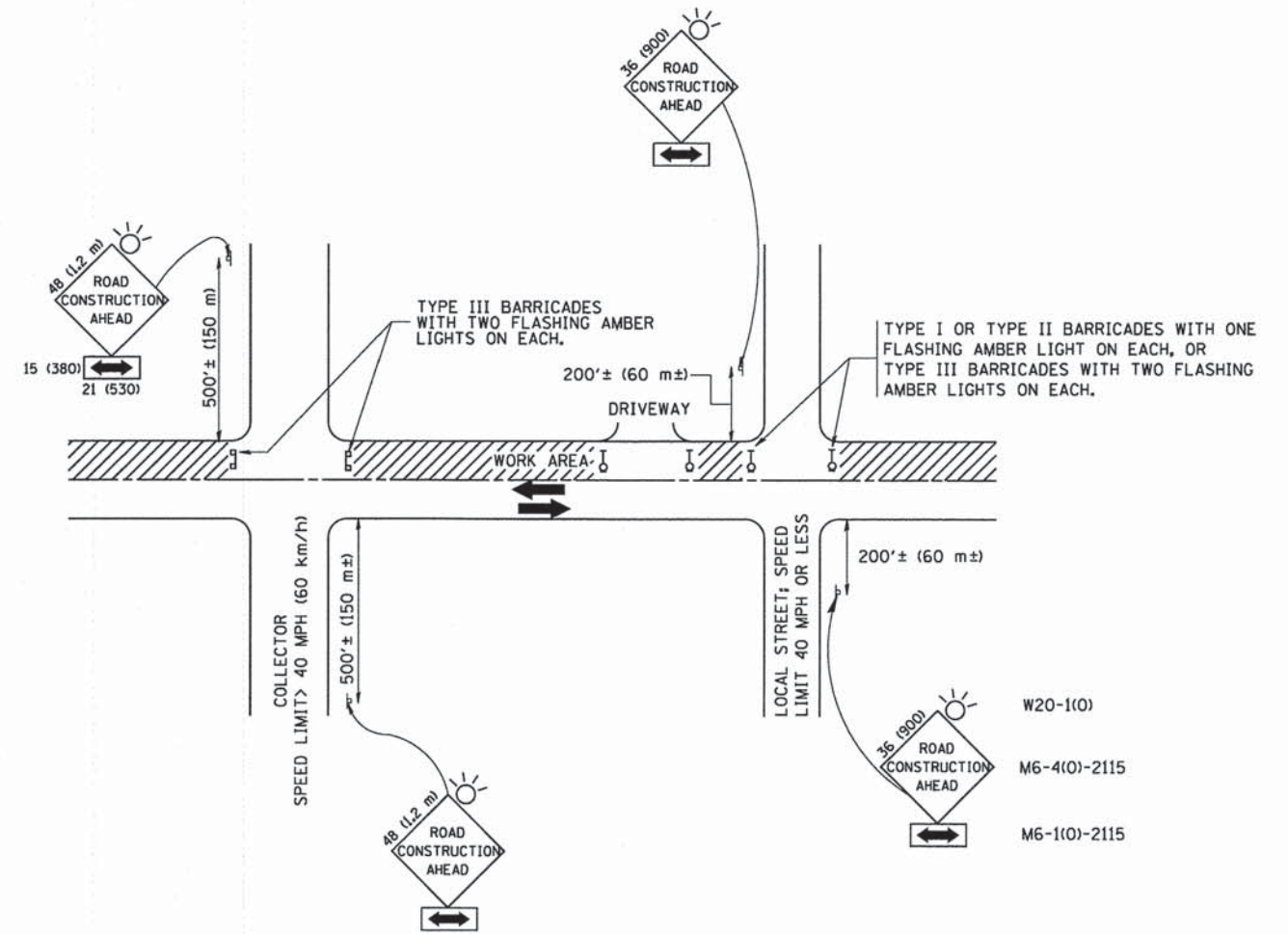
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME = 5786dtd.dgn	USER NAME = jbocha	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 37		
	PLOT SCALE = 1:1	CHECKED -	REVISED - A. ABBAS 03-21-97			SCALE: 40	SHEET 37 OF 58 SHEETS	STA. 10+77	TO STA. 133+00	BD600-06 (BD24) CONTRACT NO. 63210		
	PLOT DATE = 1/27/2015	DATE - 03-11-94	REVISED - M. GOMEZ 01-22-01			ILLINOIS FED. AID PROJECT						
			REVISED - R. BORO 12-15-09									



W20-1(0)  
M6-4(0)-2115  
M6-1(0)-2115

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

**NOTES:**

**A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

**B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

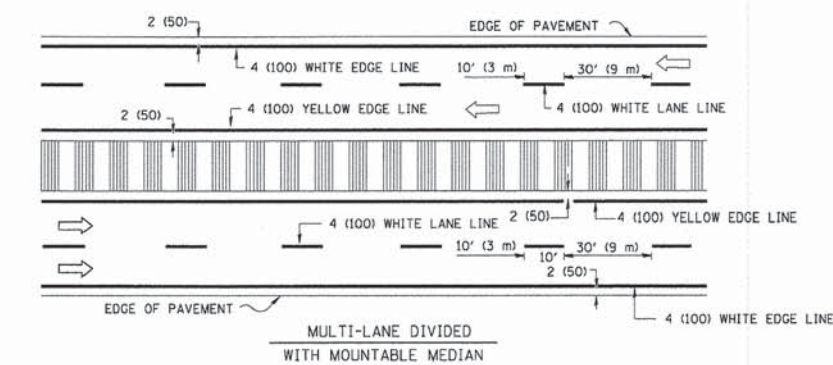
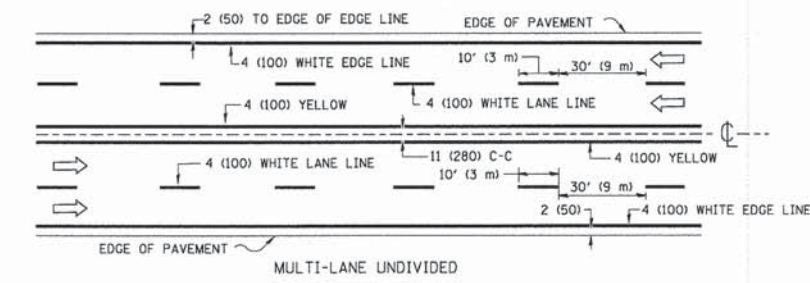
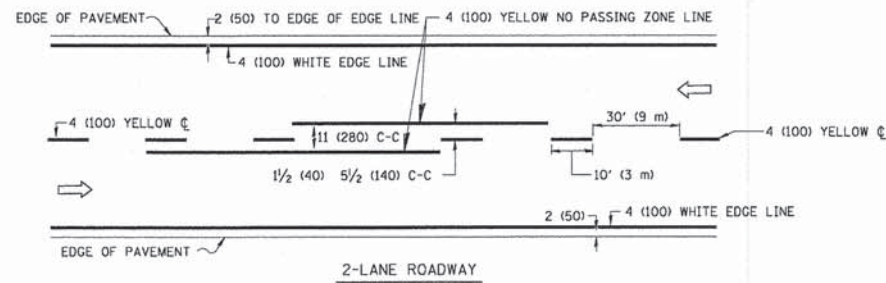
FILE NAME = 57884r15.dgn	USER NAME = jbacha	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
		CHECKED -	REVISED - A. HOUSEH 10-15-96
Default	PLOT DATE = 1/27/2015	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

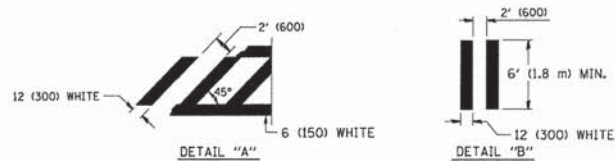
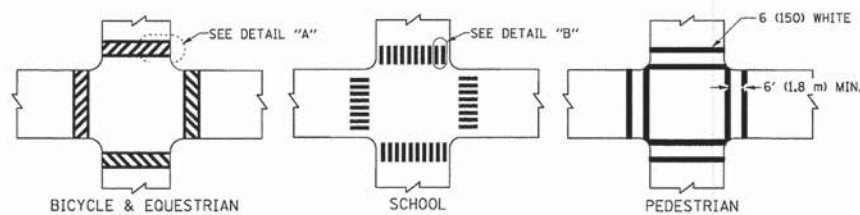
SCALE: 40 SHEET 38 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	08-00201-00-BT	COOK	58	38
TC-10			CONTRACT NO. 63210	
[ILLINOIS] FED. AID PROJECT				

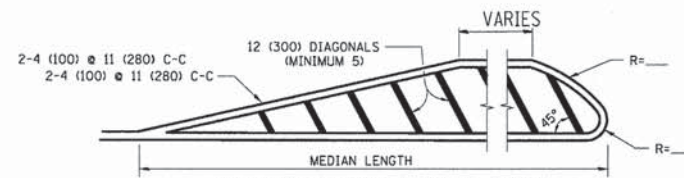
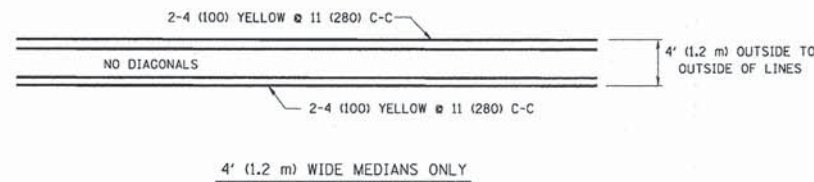


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

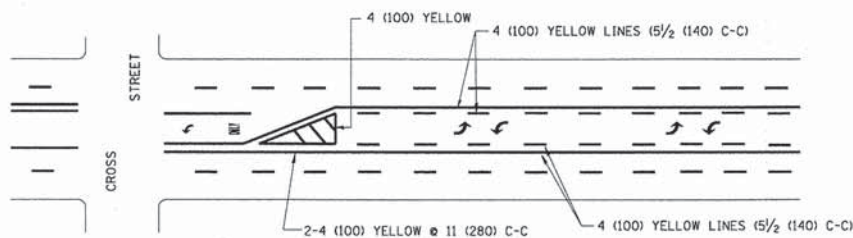


TYPICAL CROSSWALK MARKING



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

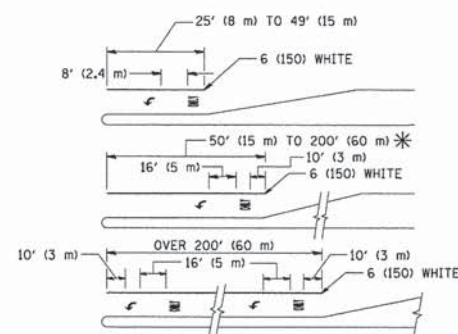
MEDIANS OVER 4' (1.2 m) WIDE



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

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

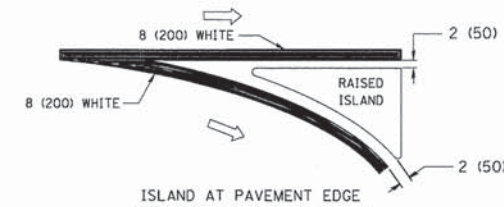
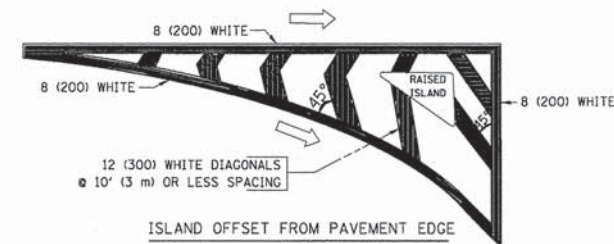


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* 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



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	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
LANE LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	5 (125) ON FREEWAYS	SKIP-DASH	WHITE	
DOTTED LINES	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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
TWO WAY LEFT TURN MARKING	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN)	2 @ 6 (150)	SOLID	WHITE	NOT LESS THAN 6' (1.8 m) APART
CROSSWALK LINES (BIKE & EQUESTRIAN)	12 (300) @ 45°	SOLID	WHITE	2' (600) APART
CROSSWALK LINES (SCHOOL)	12 (300) @ 90°	SOLID	WHITE	2' (600) APART
STOP LINES	24 (600)	SOLID	WHITE	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°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
PAINTED MEDIANS	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS			
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 <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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.

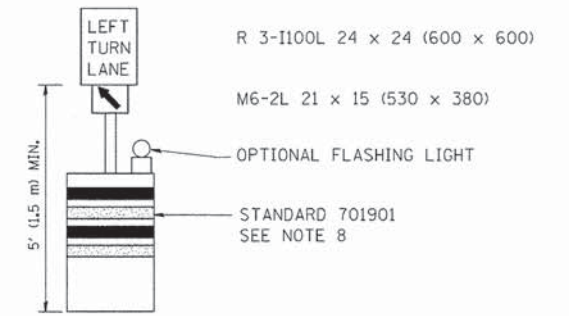
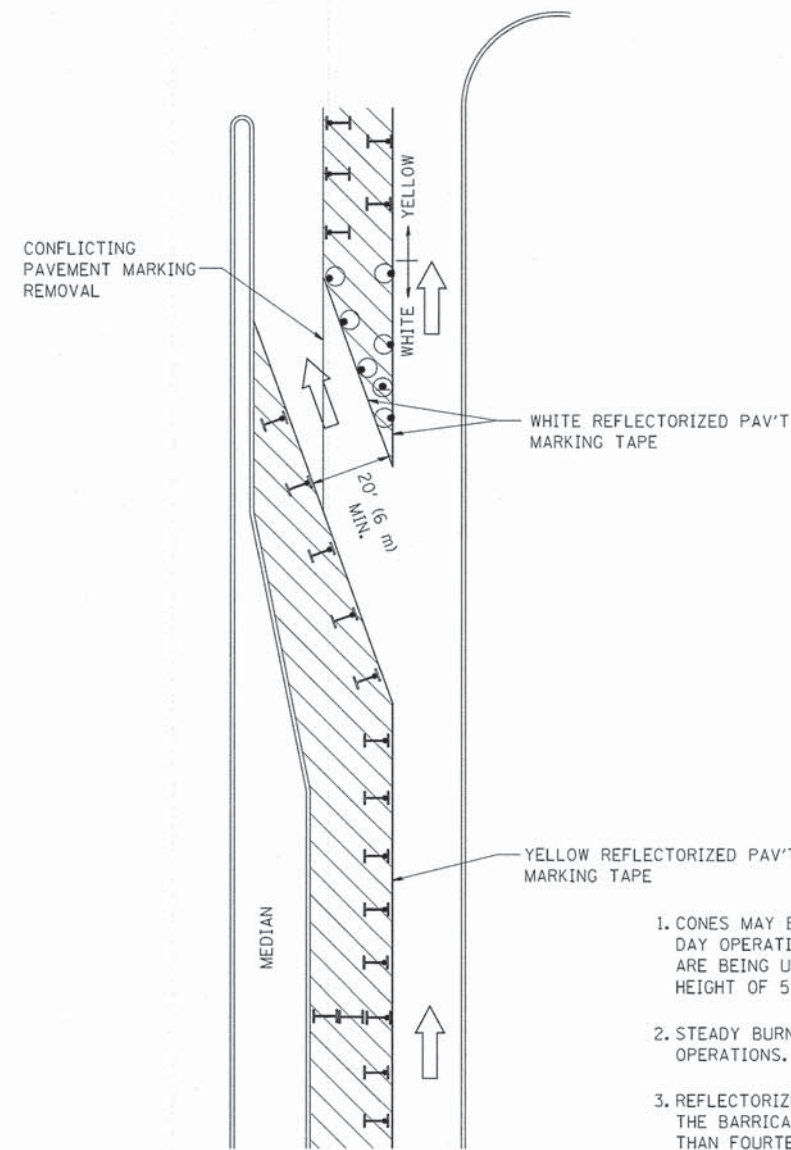
FILE NAME = 579dnt8.dgn	USER NAME = jbocha	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
		DRAWN -	REVISED - C. JUCIUS 09-09-99
	PLOT SCALE = 1:1	CHECKED -	REVISED -
	PLOT DATE = 1/27/2015	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: 40 SHEET 39 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 39
TC-13			CONTRACT NO. 63210	
ILLINOIS FED. AID PROJECT				









**GENERAL NOTES**

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

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

**LEGEND**

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

FILE NAME = 5798a107.dgn	USER NAME = jbecha	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORD 09-14-09
		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 1:1	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 1/27/2015	REVISED - T. RAMMACHER 01-06-00	REVISED -

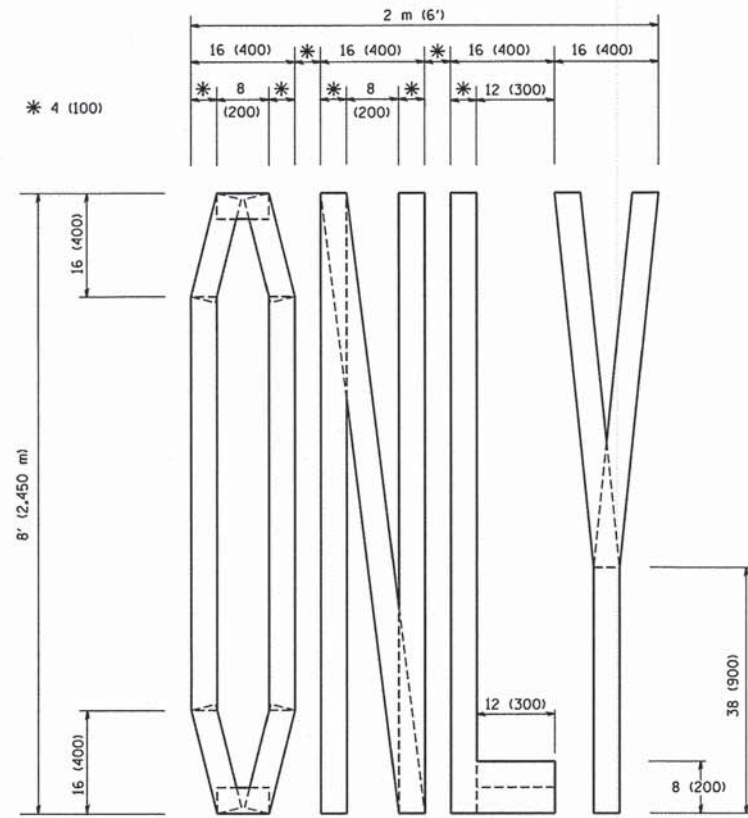
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL FOR TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

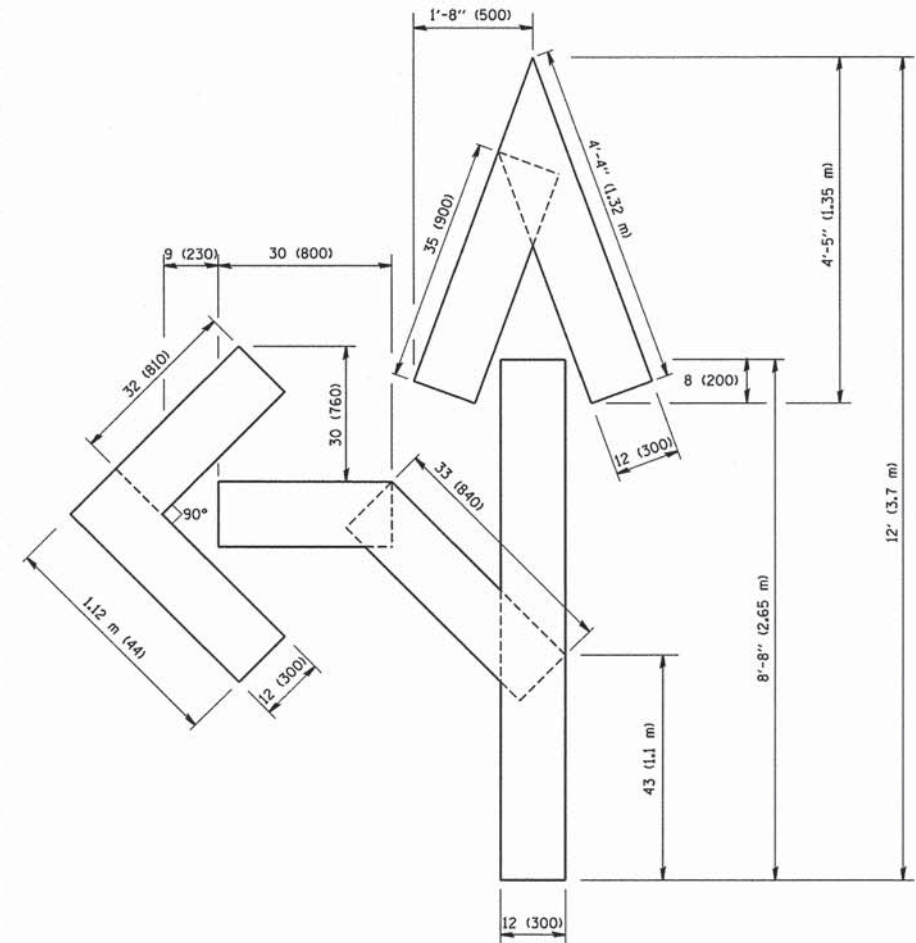
SCALE: 40 SHEET 40 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 40
TC-14		CONTRACT NO. 63210		
ILLINOIS FED. AID PROJECT				

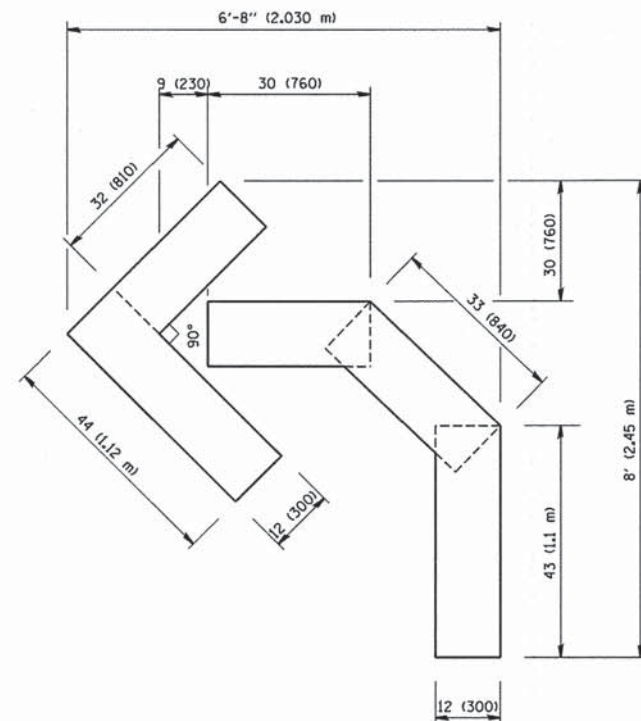




QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



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



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

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

FILE NAME = 5790der08.dgn	USER NAME = jbocho	DESIGNED -	REVISED - T. RAMMACHER 06-05-96
		DRAWN -	REVISED - T. RAMMACHER 11-04-97
		CHECKED -	REVISED - T. RAMMACHER 03-02-98
		DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

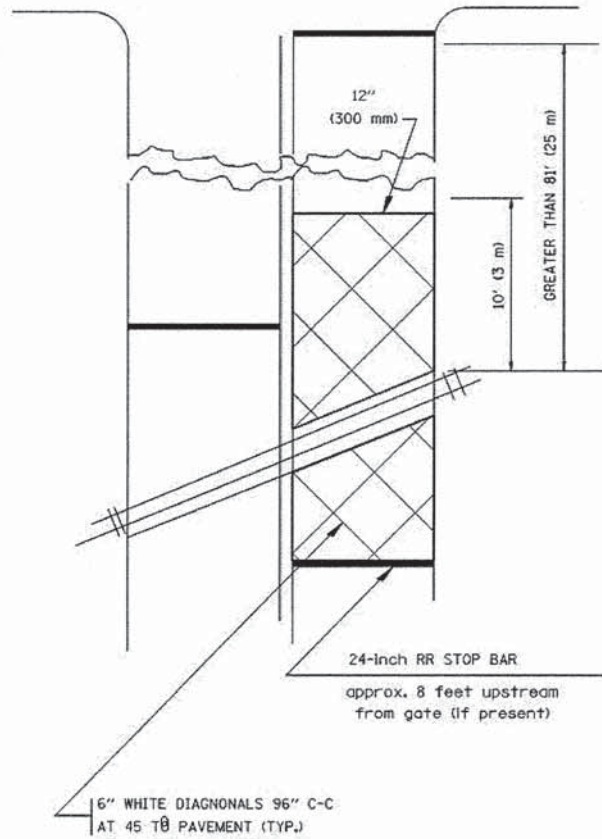
DETAILS FOR PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

SCALE: 40 SHEET 41 OF 58 SHEETS STA. 10+77 TO STA. 133+00

F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 41
TC-16			CONTRACT NO. 63210	
ILLINOIS FED. AID PROJECT				

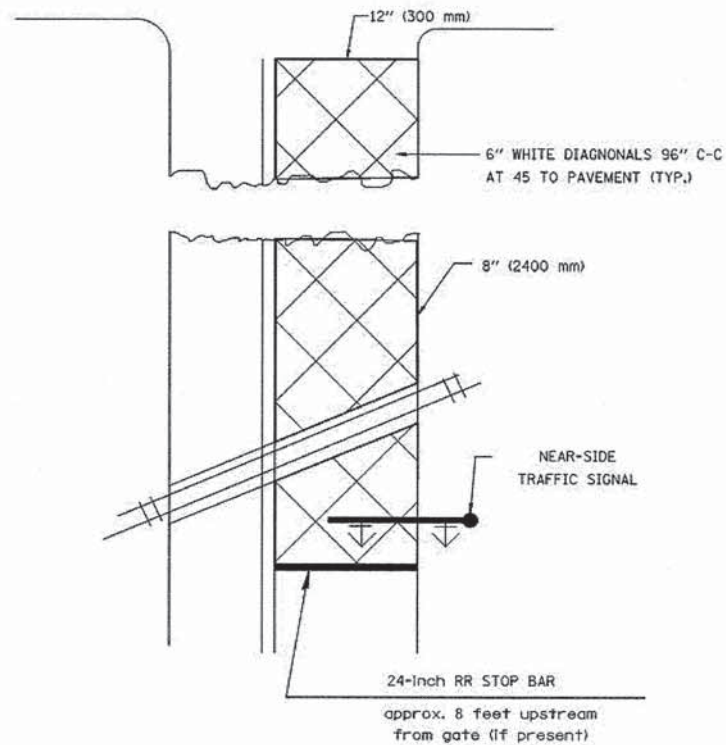


WITH INTERSECTION TRAFFIC SIGNALS  
(SEE NOTE 1)



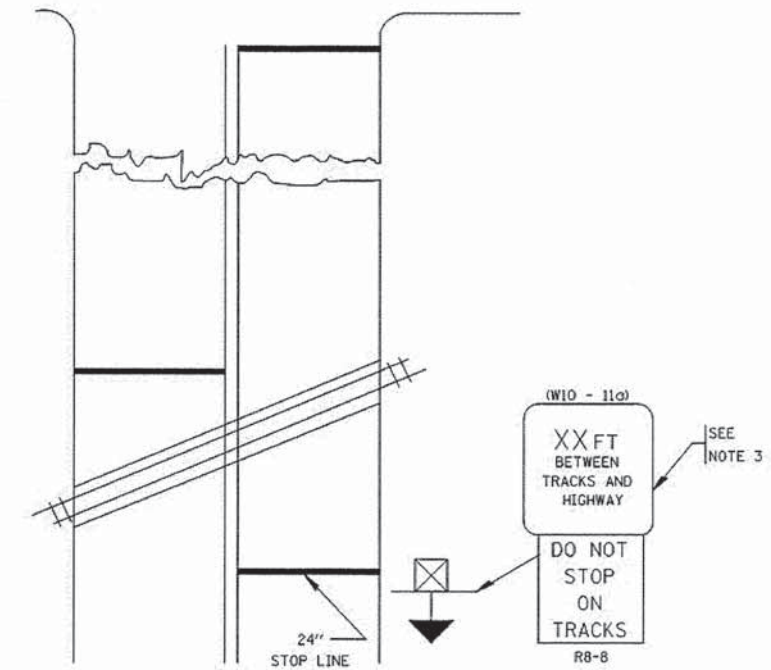
PLAN  
N. T. S.

WITH NEAR-SIDE TRAFFIC SIGNALS  
(SEE NOTE 1 & 2)



PLAN  
N. T. S.

WITH NONSIGNALIZED INTERSECTION  
81' (25 m) OR LESS TO CLOSEST RAIL



PLAN  
N. T. S.

NOTES:

1. PAVEMENT MARKINGS TO BE INSTALLED ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
3. DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.  
THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6- FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

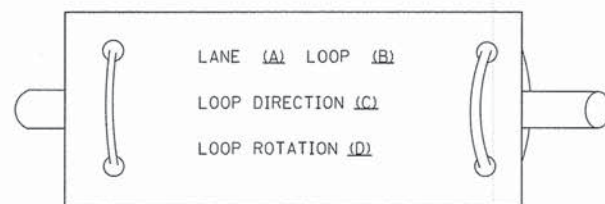
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

FILE NAME = 5790atll.dgn	USER NAME = j_bachs	DESIGNED -	REVISED - 02-25-11	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL FOR TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 1:1	DRAWN -	REVISED - 04-26-12			1300	08-00201-00-BT	COOK	58	43	
	PLOT DATE = 1/27/2015	CHECKED -	REVISED -			TC-23		CONTRACT NO. 63210		ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -			SCALE: 40	SHEET 43 OF 58 SHEETS	STA. 10+77	TO STA. 133+00		

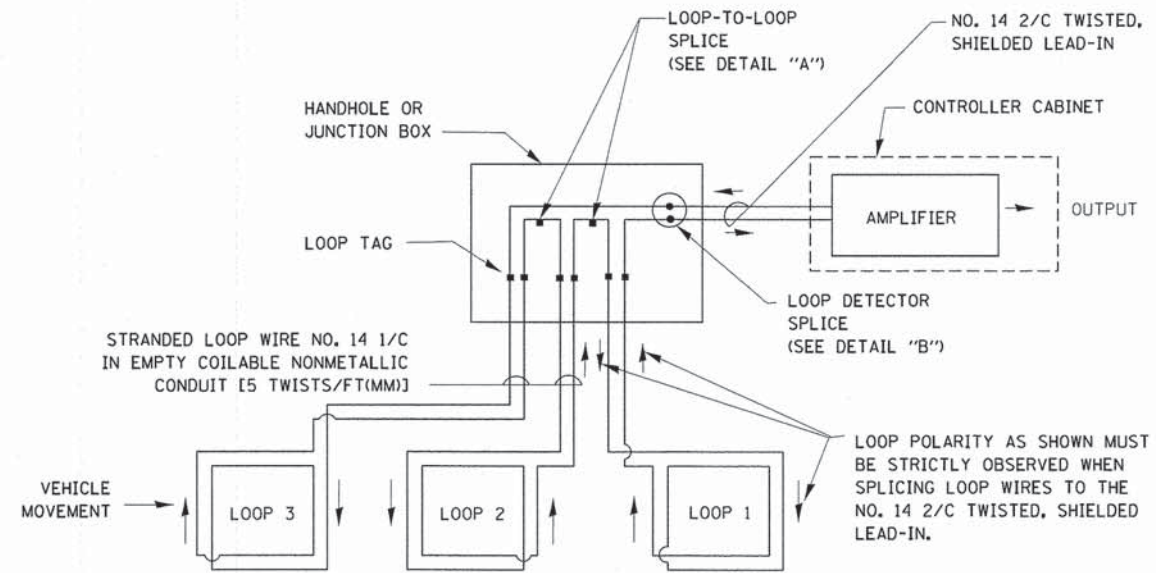
**LOOP DETECTOR NOTES**

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

**LOOP LEAD-IN CABLE TAG**

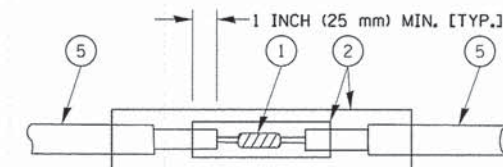


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

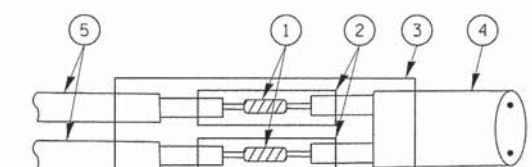


**DETECTOR LOOP WIRING SCHEMATIC**

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

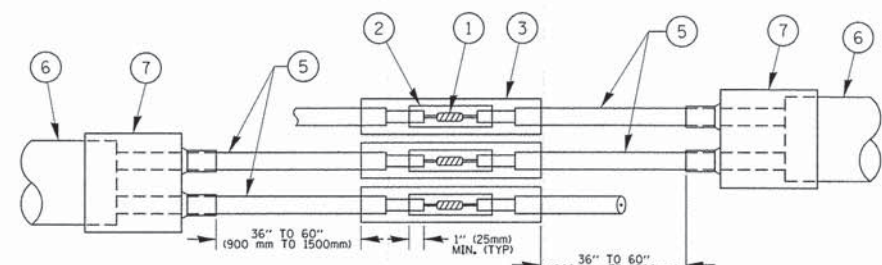


DETAIL "A"  
LOOP-TO-LOOP SPLICE

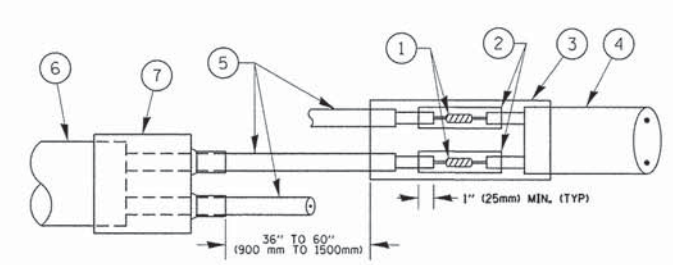


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

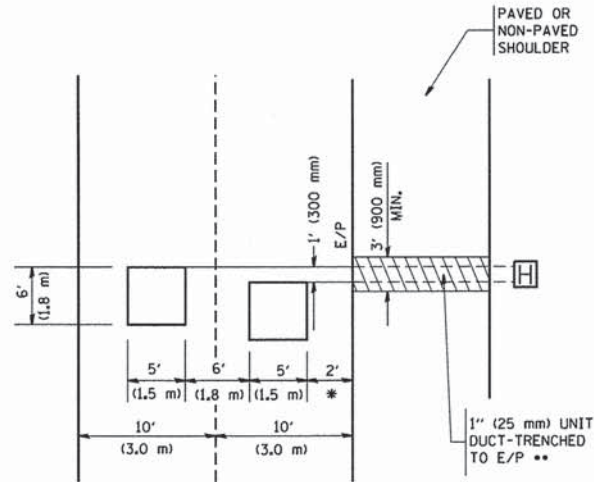
**PREFORMED LOOP**

**LOOP DETECTOR SPLICE**

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

**LOOPS NEXT TO SHOULDERS**

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

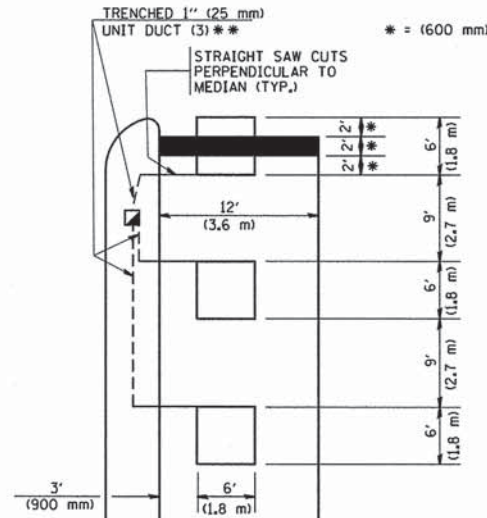


\* = (600 mm)

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

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

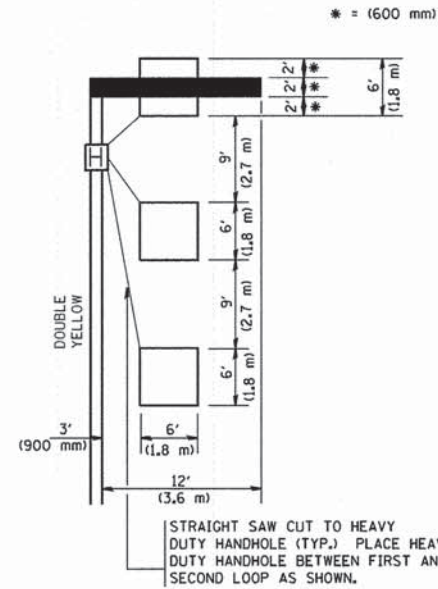
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

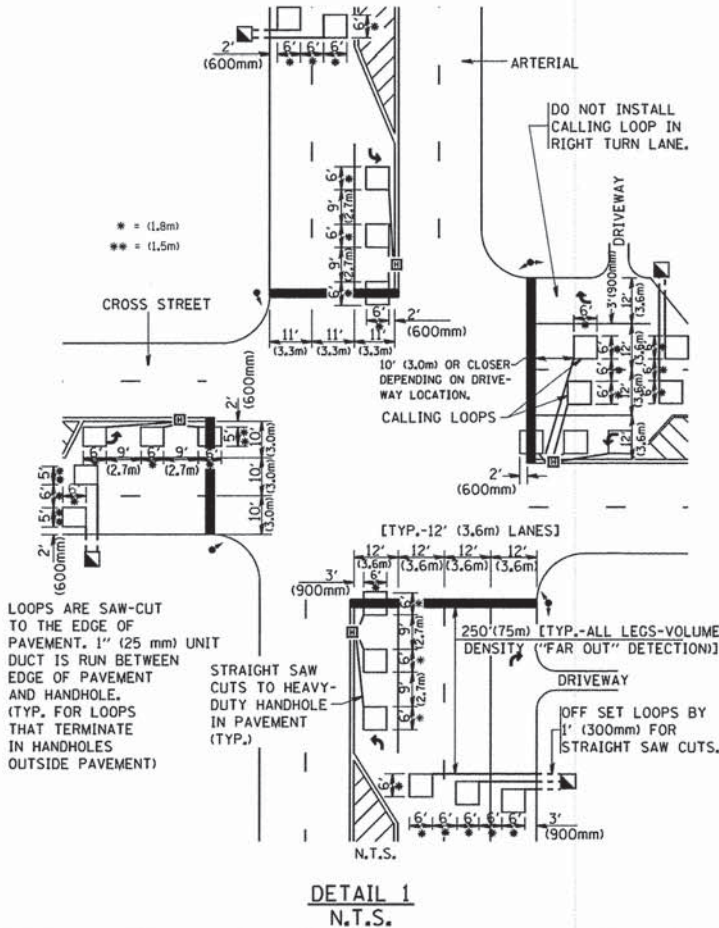
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**



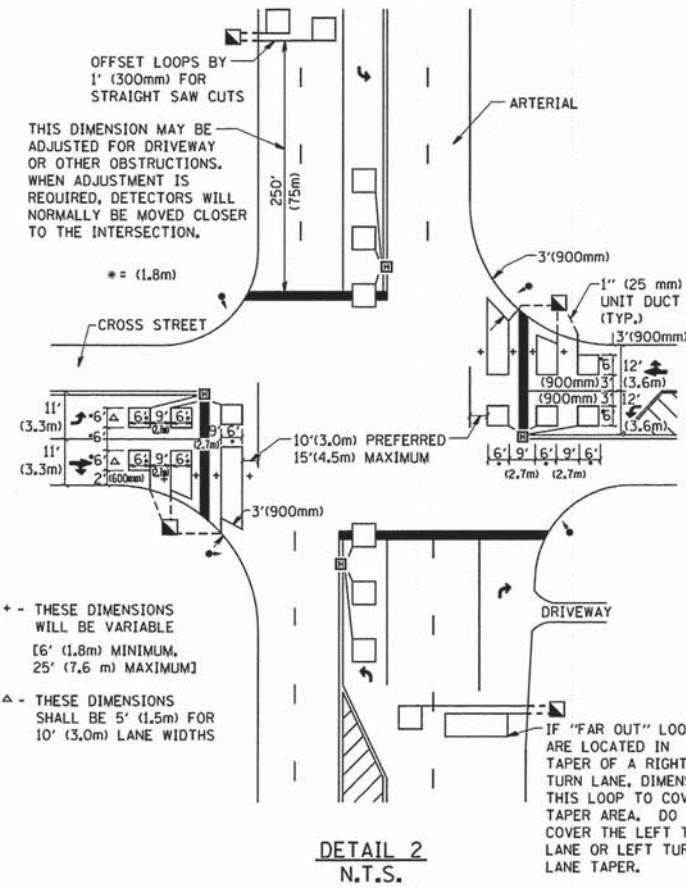
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1  
N.T.S.

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



DETAIL 2  
N.T.S.

**NOTES:**

**VEHICLES LOOP DETECTORS**

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

**PLACEMENT OF DETECTORS**

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

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

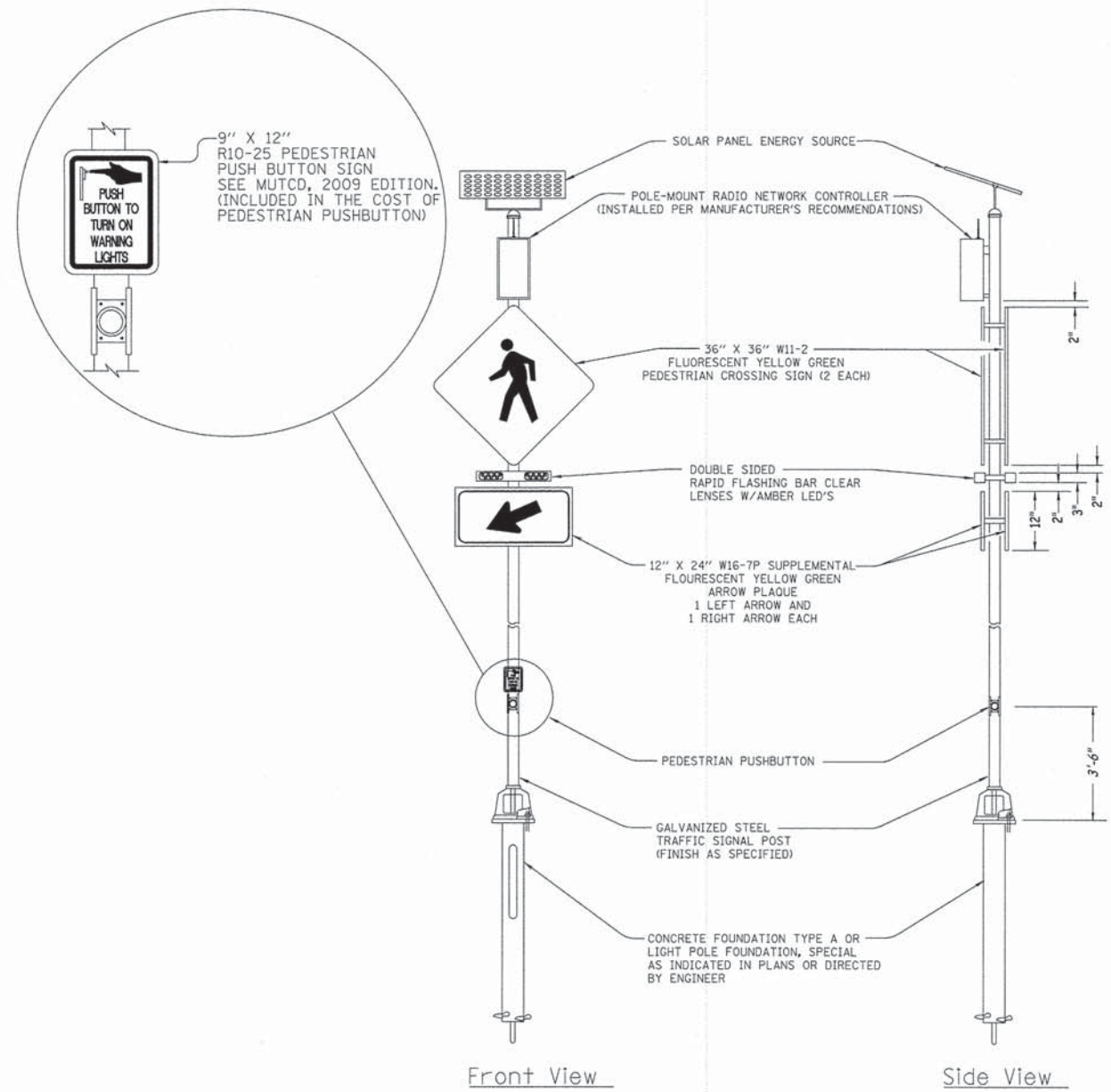
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

**NOTE:**

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

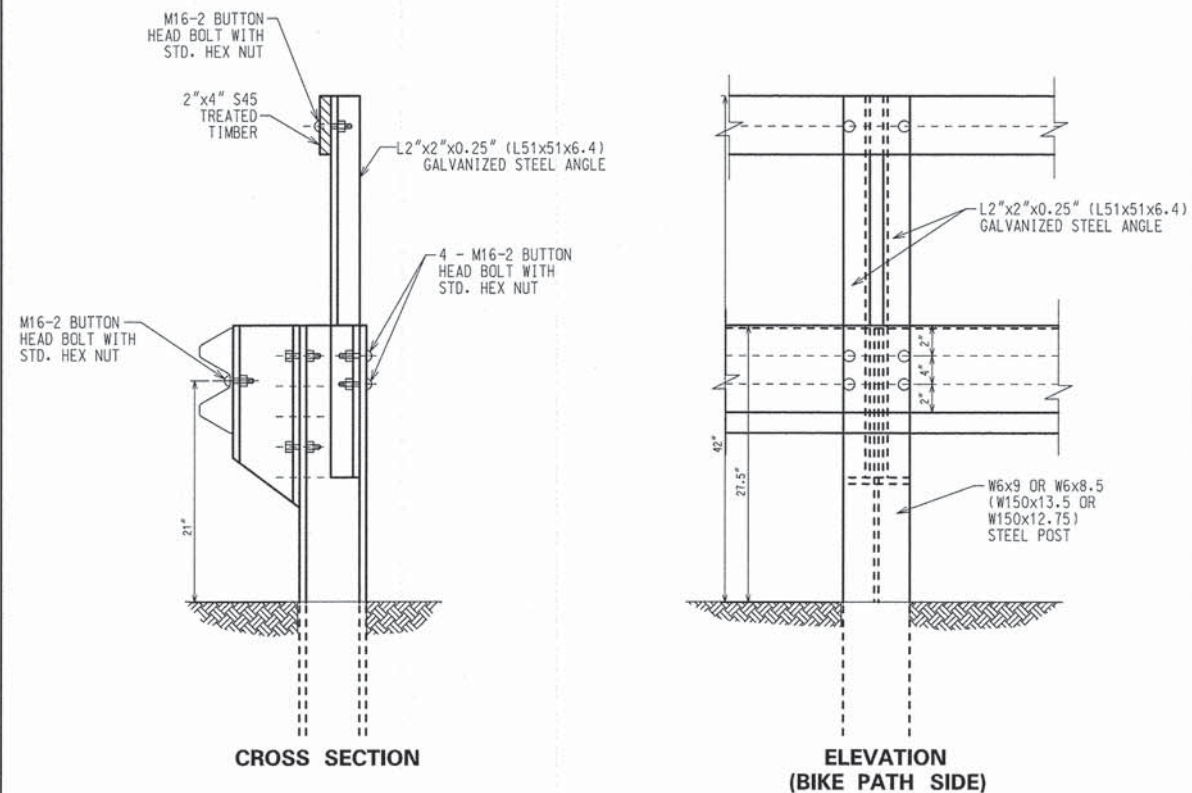
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME = 5798det1.dgn	USER NAME = jbacha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING</b>	F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 45	
PLOT SCALE = 1:1	CHECKED - R.K.F.	REVISED -	REVISED -			SCALE: 40	SHEET 45 OF 58 SHEETS	STA. 10+77 TO STA. 133+00	TS-07 CONTRACT NO. 63210		
PLOT DATE = 1/27/2015	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					
Default											



**TYPICAL RECTANGULAR RAPID FLASHING BEACON SYSTEM  
PEDESTRIAN PEDESTAL INSTALLATION (TWO SIDED)**

Actual Dimensions and Mounting Requirements  
per Special Provisions and Manufacturer Recommendations  
(SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE))



**STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)**

NOT TO SCALE

FILE NAME = 579dwt13.dgn	USER NAME = jbocha	DESIGNED -	REVISED -
	PLOT SCALE = 1:1	DRAWN -	REVISED -
Default	PLOT DATE = 1/27/2015	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CENTRAL ROAD (WOLF ROAD TO E. RIVER ROAD) DETAILS			
SCALE: 40	SHEET 46 OF 58 SHEETS	STA. 10+77	TO STA. 133+00

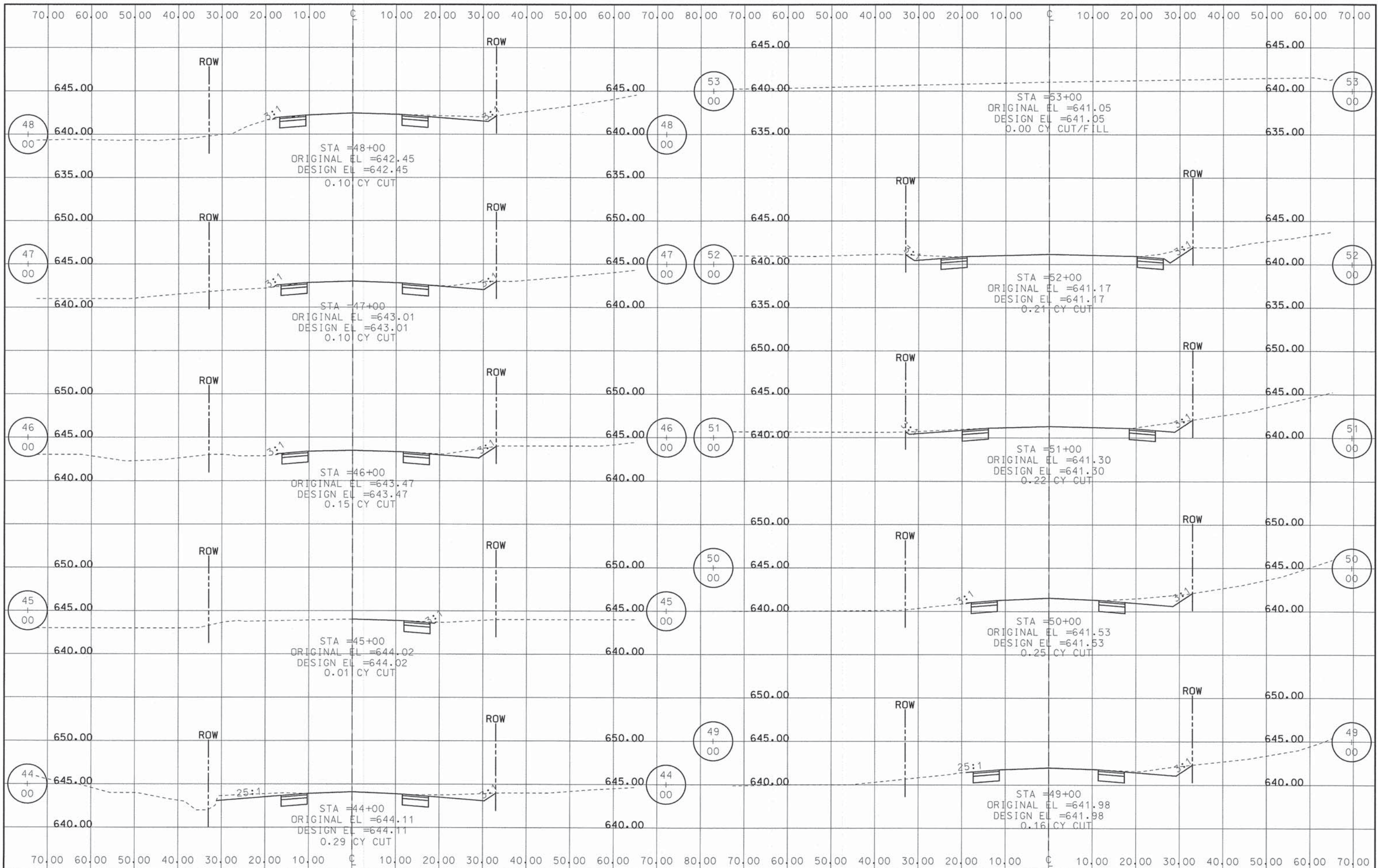
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1300	08-00201-00-BT	COOK	58	46
CONTRACT NO. 63210				
ILLINOIS FED. AID PROJECT				

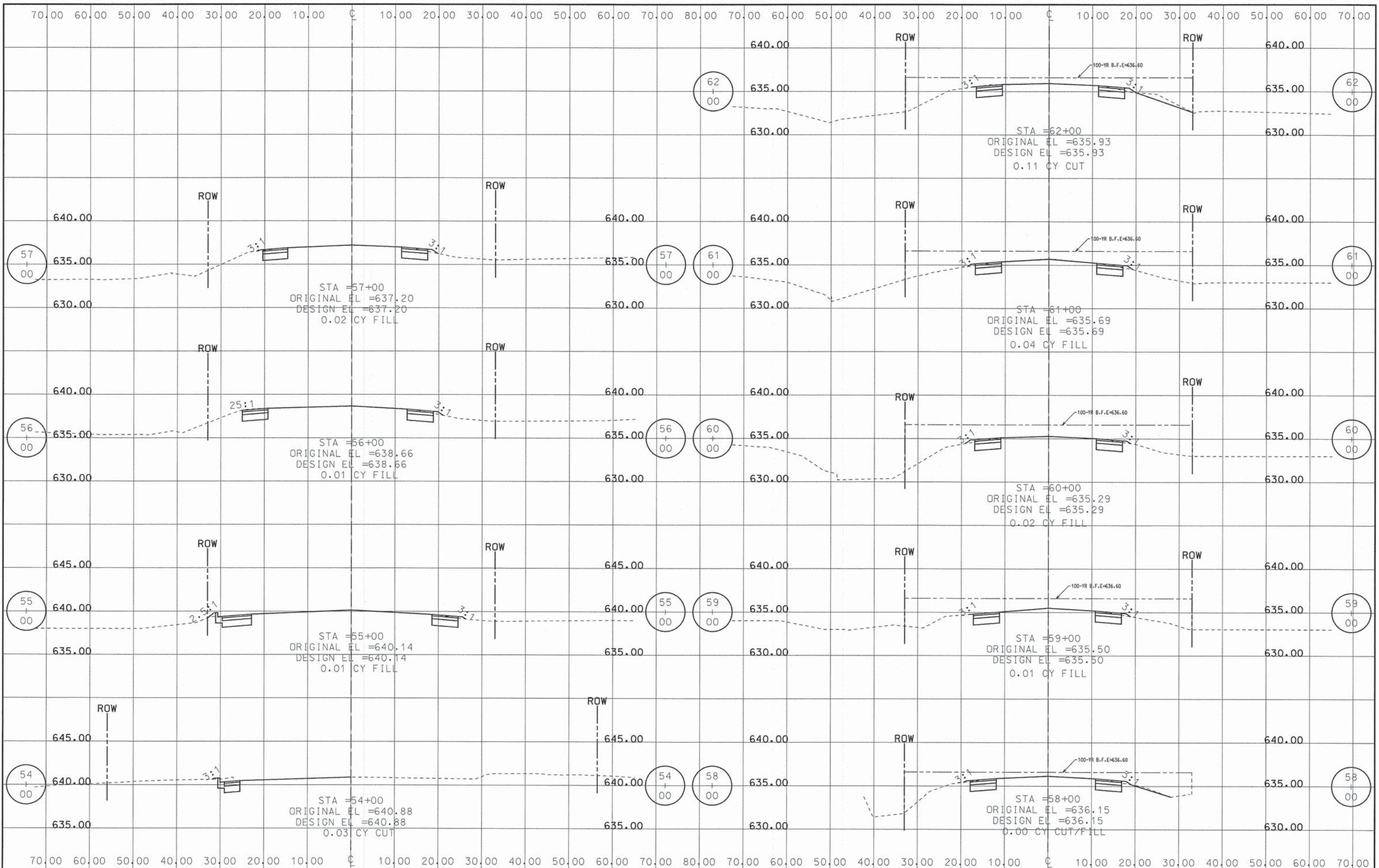


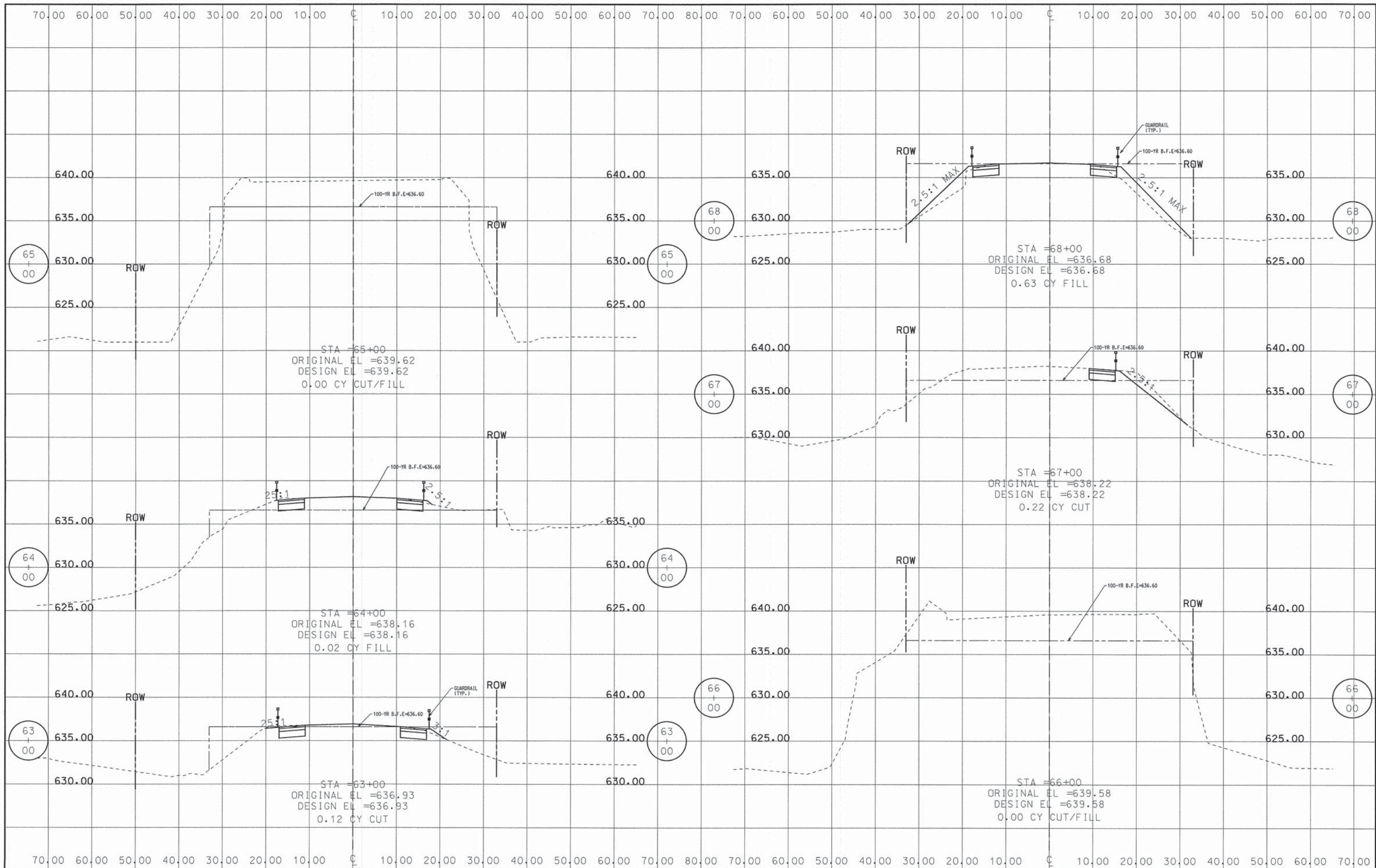




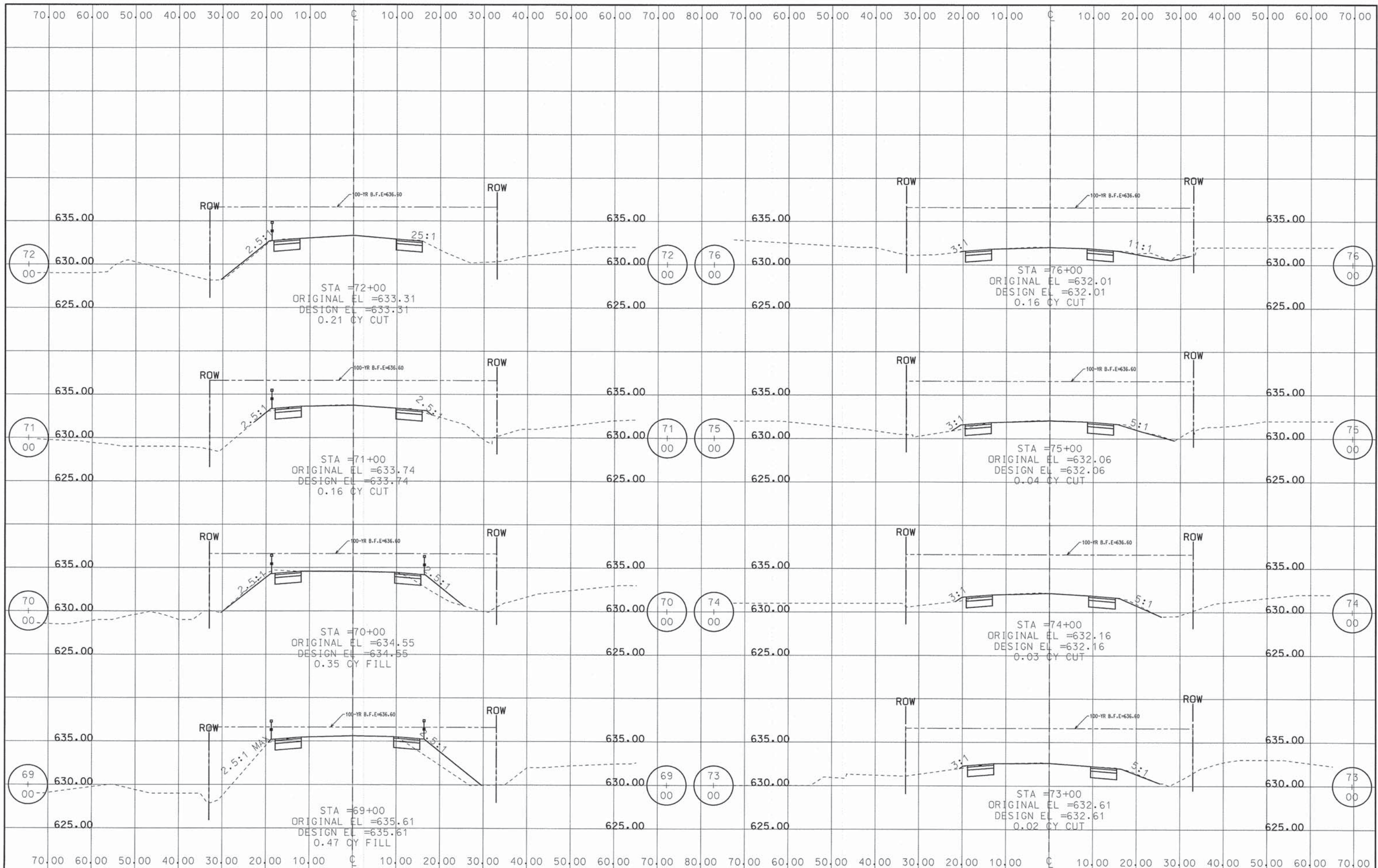




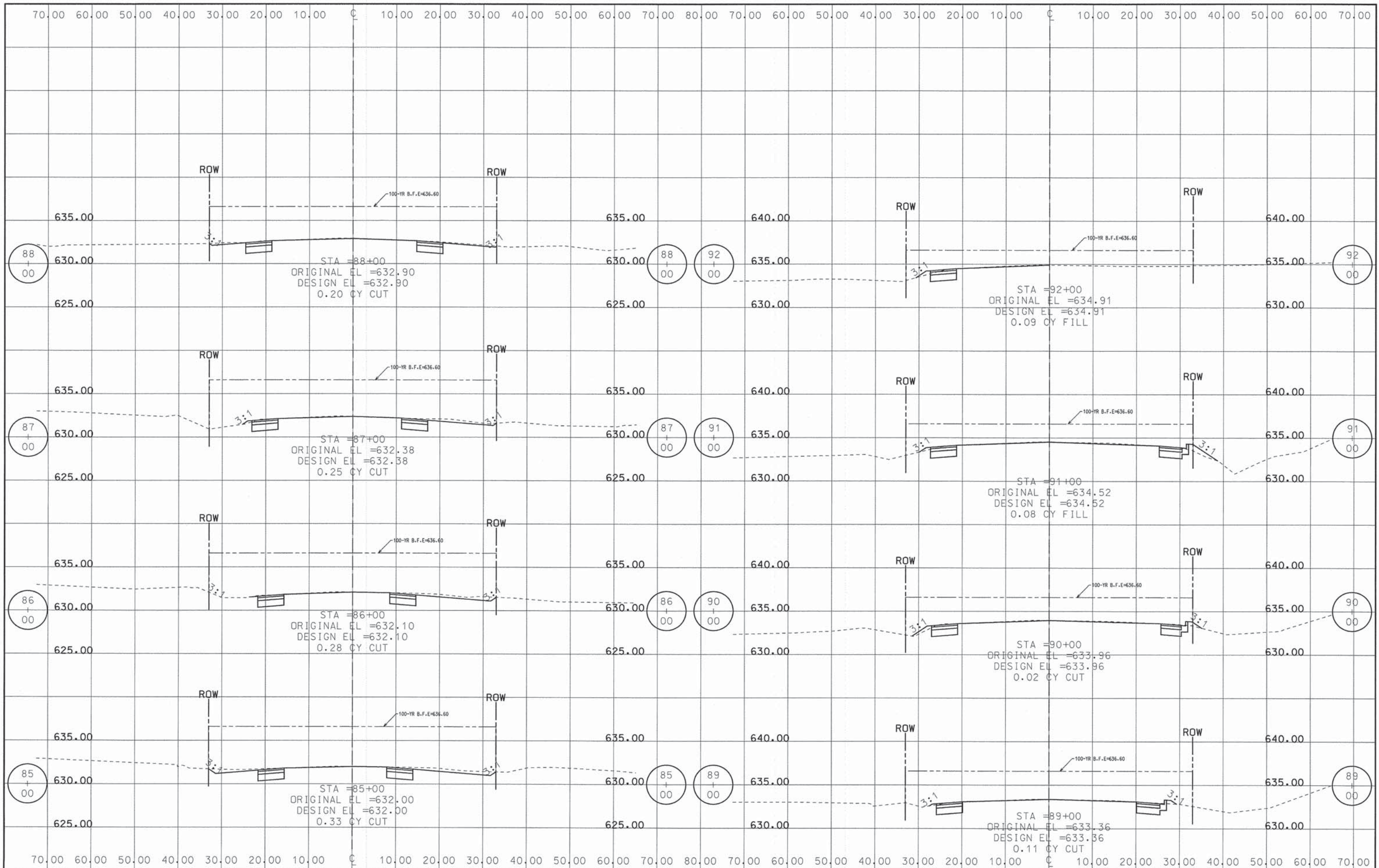




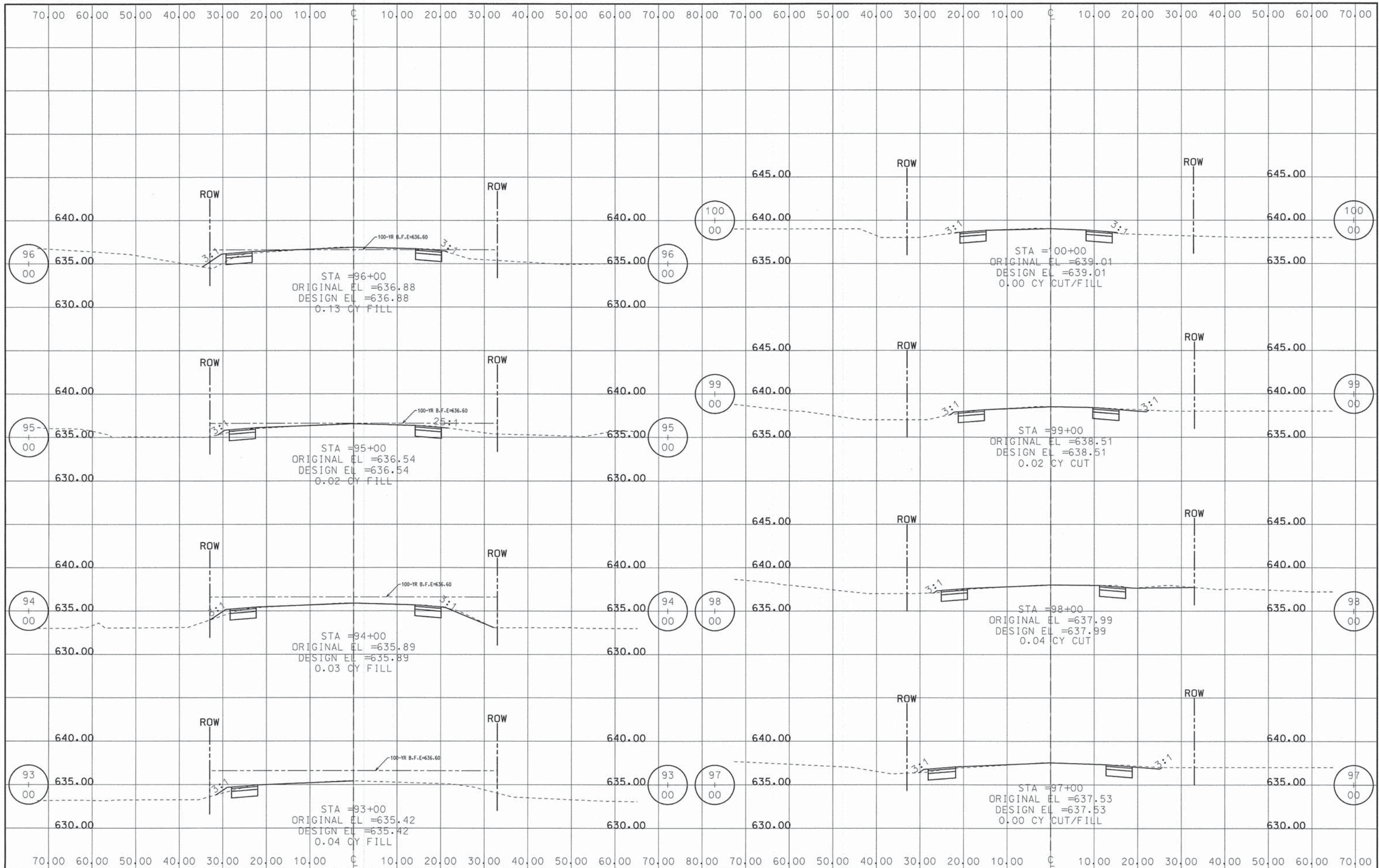
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Default	PLOT SCALE = 1:1	CHECKED -	REVISED -		SCALE: 40	SHEET 52 OF 58 SHEETS	STA. 10+77 TO STA. 133+00	CONTRACT NO. 63210				
	PLOT DATE = 1/27/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							







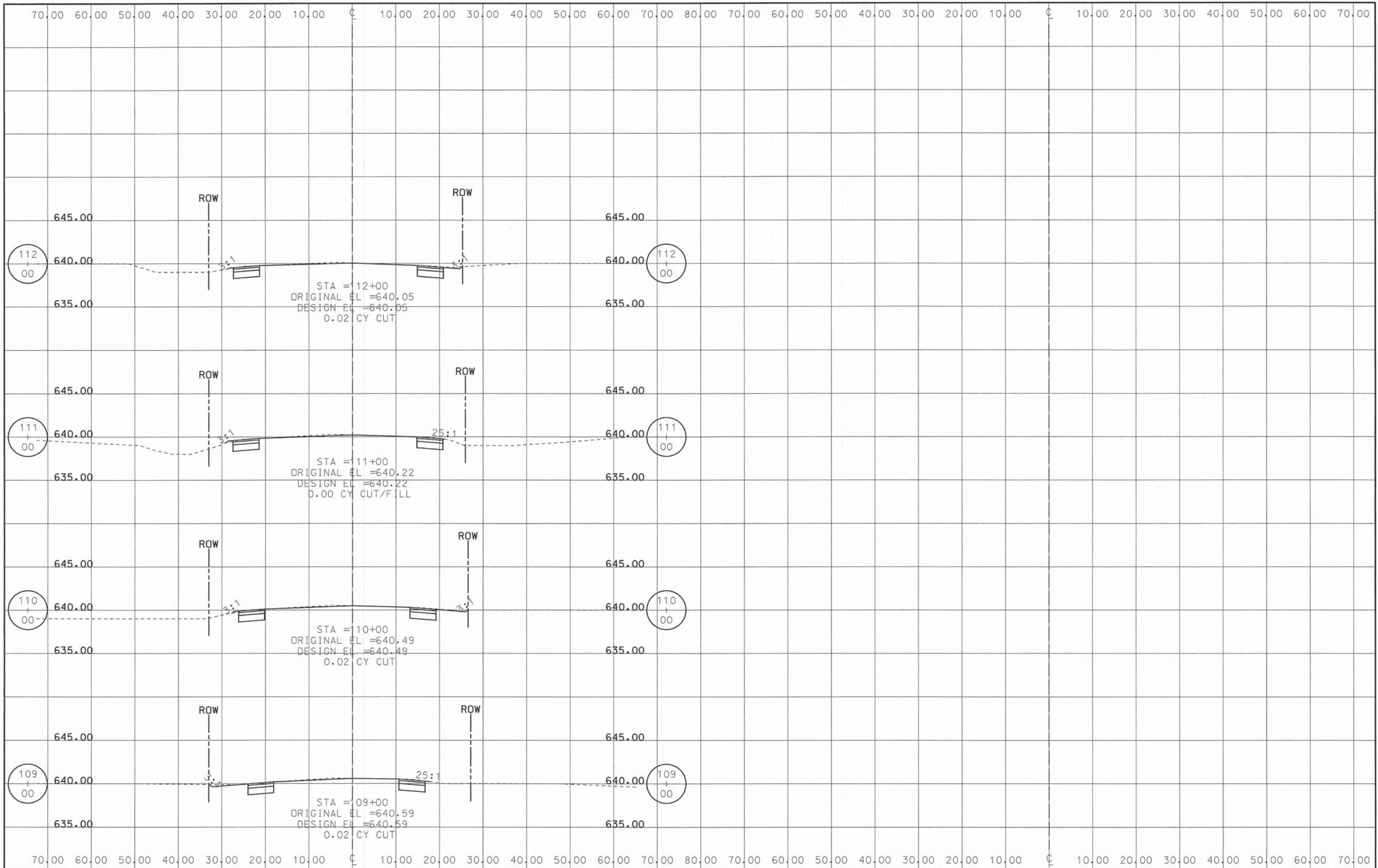
FILE NAME = 579818PLOT.DWG	USER NAME = jbacha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE CROSS SECTIONS</b>				F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 55
Default	PLOT SCALE = 1:1	DRAWN -	REVISED -		SCALE: 40	SHEET 55	OF 58	SHEETS	STA. 10+77	TO STA. 133+00	CONTRACT NO. 63210		
	PLOT DATE = 1/27/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										



FILE NAME = 579KSHJ00N	USER NAME = jbaoha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE CROSS SECTIONS</b>			F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 56
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	PLOT DATE = 1/27/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									







FILE NAME = 579KSI220N	USER NAME = jbacha	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTRAL ROAD BIKE ROUTE CROSS SECTIONS</b>		F.A.U. RTE. 1300	SECTION 08-00201-00-BT	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 58	
Default	PLOT SCALE = 1:1	DRAWN -	REVISED -		SCALE: 40	SHEET 58 OF 58 SHEETS	STA. 10+77	TO STA. 133+00	CONTRACT NO. 63210			
	PLOT DATE = 1/27/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									