1-20-2012 LETTING ITEM 161

CONTRACT NO. 63566

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	1

+ 1 = 143

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP ROUTE 350 U.S. ROUTE 41 (SKOKIE BOULEVARD)
OLD ORCHARD SHOPPING CENTER SOUTH ENTRANCE TO OLD ORCHARD ROAD
INTERSECTION IMPROVEMENTS
SECTION 00-00243-00-CH
PROJECT M-8003(373)
COOK COUNTY
JOB NO. C-91-131-04

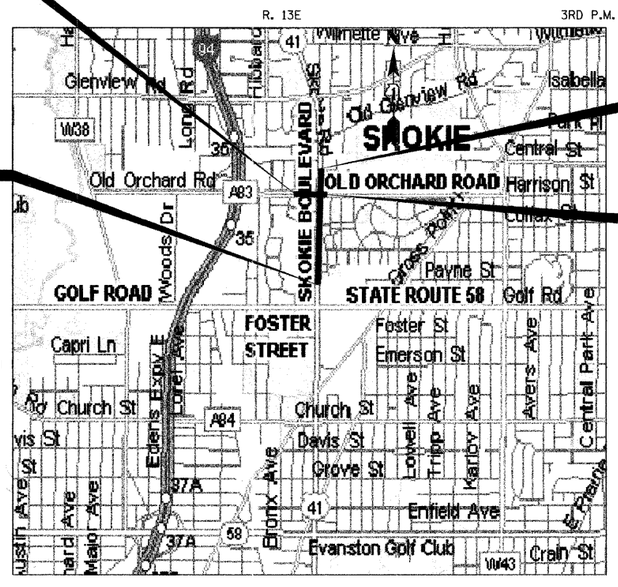
PROJECT IS LOCATED IN THE VILLAGE OF SKOKIE

PROJECT M-8003 (373)
PROJECT LIMITS
OLD ORCHARD ROAD
STATION 301+26.60

PROJECT M-8003 (373)
PROJECT BEGINS
U.S. ROUTE 41
(SKOKIE BOULEVARD)
STATION 120+50

PROJECT M-8003 (373)
PROJECT ENDS
U.S. ROUTE 41
(SKOKIE BOULEVARD)
STATION 144+01.89

PROJECT M-8003 (373)
PROJECT LIMITS
OLD ORCHARD ROAD
STATION 309+88.55

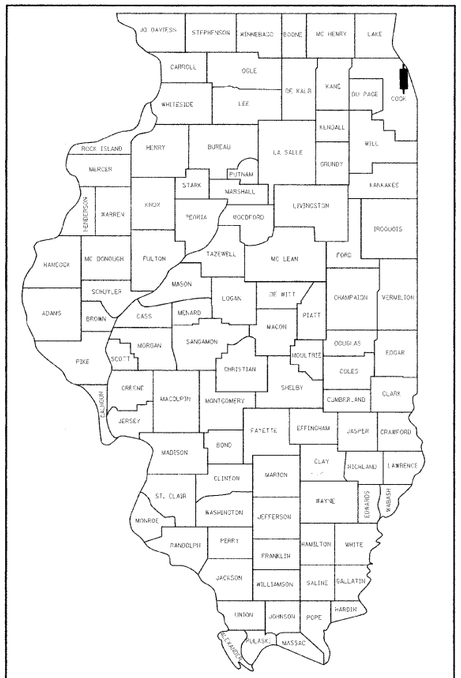


NILES TOWNSHIP

LOCATION MAP

NOT TO SCALE

PROJECT LENGTH (GROSS /NET)
U.S. ROUTE 41 (SKOKIE BOULEVARD) 2,351.89 FT (0.445 MILES)



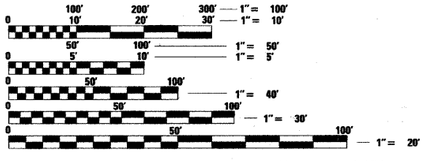
LOCATION OF SECTION INDICATED THUS: –

DESCRIPTION OF IMPROVEMENT

THIS IMPROVEMENT CONSISTS OF ROADWAY RECONSTRUCTION, STORM SEWER AND DRAINAGE STRUCTURE ADJUSTMENTS AND INSTALLATION, WATER MAIN, ROADWAY LIGHTING, TRAFFIC SIGNAL INSTALLATION, LANDSCAPING, STRIPING, AND ALL INCIDENTAL AND COLLATERAL WORK AS NECESSARY TO COMPLETE THE IMPROVEMENT SHOWN HEREIN AND AS DESCRIBED IN THE SPECIFICATIONS.

DESIGN DESIGNATION

SKOKIE BOULEVARD (U.S. 41):
2,300 (30) ARTERIAL
T.F. = 6.48 (COMP-20)
DESIGN SPEED: 40 MPH
POSTED SPEED: 40 MPH
ADT (SKOKIE BLVD): 31,300 (2030)
ADT (OLD ORCHARD RD): 30,200 (2030)



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

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

CONTRACT NO. 63566

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

DAVID W. BLOCK
062-050966
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
5-27-11

David W Block
DAVID W. BLOCK, P.E.
NO. 062-050966
EXP. DATE 11/30/11
(SHEETS 1-90, 103-142)

LOU BEUGNET
062-050843
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
5-27-11

L Beugnet
LOU BEUGNET, P.E.
NO. 062-050843
EXP. DATE 11/30/11
(SHEETS 91-102)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED ON: May 27, 2011
Frederick J. Schattner
VILLAGE OF SKOKIE, DIRECTOR OF ENGINEERING

PASSED May 31, 2011
Christopher Hout
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW MAY 31, 2011
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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001006	DECIMAL OF AN INCH AND OF A FOOT
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
353001-04	PCC BASE COURSE WITH HMA CONCRETE BINDER AND SURFACE COURSES
420001-07	PAVEMENT JOINTS
424001-06	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424026	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
442201-03	CLASS C & D PATCHES
542606-02	REINFORCED CONCRETE PIPE TEE
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602011-02	CATCH BASIN, TYPE C
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602306-03	INLET, TYPE B
602401-03	MANHOLE, TYPE A
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602416-03	MANHOLE TYPE A 8' (2.4 m) DIAMETER
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604086-02	FRAME AND GRATE, TYPE 23
604091-02	FRAME AND GRATE, TYPE 24
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606306-03	CORRUGATED PC CONCRETE MEDIANS
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701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
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701901-02	TRAFFIC CONTROL DEVICES
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720001-01	SIGN PANEL MOUNTING DETAILS
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729001-01	APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS AND MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS
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880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLTION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\CH83\0045\Road\Sheets\0045-6-102-Index.sht	USER NAME = CEComin	DESIGNED CEC	REVISED -
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	PLOT SCALE = 51.500 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
INDEX OF SHEETS AND STATE STANDARDS

SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	2
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

VILLAGE COORDINATION: THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF SKOKIE ENGINEER (847) 933-8231 AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. SPECIAL ATTENTION IS CALLED TO SECTION 105 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION. THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE PARKWAYS SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF SKOKIE PUBLIC WORKS DEPARTMENT AT 847-933-8231 48 HOURS PRIOR TO STARTING ANY WORK. THE CONTRACTOR SHALL ALSO CONTACT THE VILLAGE OF SKOKIE PUBLIC WORKS DEPARTMENT UTILITY DIVISION AT 847-933-8277 FOR ALL WATER MAIN SHUTOFFS. UNDER NO CONDITION SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL PROVIDE THE VILLAGE AND ENGINEER, PRIOR TO BEGINNING CONSTRUCTION, WITH THE NAME AND PHONE NUMBER OF A CONTACT PERSON THAT WILL BE AVAILABLE FOR QUICK RESPONSE FOR AFTER-HOURS EMERGENCIES. IF THAT PERSON DOES NOT RESPOND WITHIN 4 HOURS OF THE CALL, THEN THE VILLAGE SHALL HIRE OR USE OTHER PERSONNEL TO REMEDY THE EMERGENCY AND DEDUCT ALL COSTS INCURRED FROM THE PAYMENTS DUE THE CONTRACTOR.

PUBLIC OR PRIVATE UTILITIES: THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE VILLAGE DOES NOT GUARANTEE ITS ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF SUCH FACILITIES SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS. THEIR FACILITIES MAY BE REQUIRED TO BE ADJUSTED OR RELOCATED.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, AND OTHER UTILITY FACILITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY, AND SHALL RESTORE SUCH PROPERTY AT HIS OWN EXPENSE.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE. WHENEVER THE CONTRACTOR ENCOUNTERS FACILITIES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS DURING TRENCHING OPERATION, HE WILL BE REQUIRED TO HAND TRENCH IN THAT AREA IN ORDER NOT TO DAMAGE THE FACILITIES.

SPRINKLER SYSTEMS DAMAGED BY THE CONTRACTOR OR IN CONFLICT WITH THE PROPOSED IMPROVEMENT SHALL BE REPAIRED OR RELOCATED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS OR SPRINKLER SYSTEM MAINTENANCE CONTRACTORS TO DETERMINE REPAIR METHODS OR RELOCATION LIMITS. THIS WORK SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. SPRINKLER SYSTEMS ARE LOCATED ALONG SKOKIE BLVD. FROM STA. 120+40 (LT) TO 137+00 (LT) AND ALONG OLD ORCHARD RD. FROM STA. 298+50 (RT) TO SKOKIE BLVD. (RT).

THE CONTRACTOR SHALL COORDINATE WITH THE AT&T CONTRACTOR REGARDING THE RELOCATION OF THEIR DUCTS WHICH WILL OCCUR DURING CONSTRUCTION.

DISPOSAL OF MATERIALS: THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER MATERIAL EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS, AT HIS EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE ON THE DAY IT IS EXCAVATED. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING MATERIAL TO LOCATIONS, PROVIDED BY THE CONTRACTOR, OUTSIDE THE LIMITS OF THE IMPROVEMENT.

EXISTING DRAINAGE STRUCTURES: DURING CONSTRUCTION OPERATIONS, WHENEVER ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED BY THE CONTRACTOR AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

DRAINAGE STRUCTURE ADJUSTMENT AND RECONSTRUCTION: ONLY PRECAST CONCRETE ADJUSTMENT RINGS WILL BE ALLOWED IN THE ADJUSTMENT OR RECONSTRUCTION OF CATCH BASIN, MANHOLE, INLET AND VALVE VAULT STRUCTURES. COMMON BRICK WILL NOT BE ALLOWED.

MAINTAINING DRAINAGE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

FRAMES AND GRATES: FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST. ALL FRAMES, GRATES, LIDS AND BOXES REMOVED FROM EXISTING WATER SERVICE OR SEWER STRUCTURES WHICH ARE TO BE ABANDONED OR ADJUSTED WITH A NEW OR DIFFERENT FRAME AND LID SHALL BECOME THE PROPERTY OF THE VILLAGE OF SKOKIE.

ANY OF THESE ITEMS WHICH ARE DAMAGED OR BROKEN DURING HANDLING SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR SALVAGING THESE EXISTING FRAMES, GRATES, LIDS, OR BOXES, STOCKPILING THEM ON THE JOB SITE, AND DELIVERING THEM TO THE MAINTENANCE FACILITY OF THE VILLAGE OF SKOKIE. THE CONTRACTOR SHALL NOTIFY THE VILLAGE 24 HOURS PRIOR TO DELIVERY.

TYPE 1 FRAME, CLOSED LID: ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY STORM SEWER MANHOLE SHALL HAVE THE WORD "STORM" CAST INTO THE LID. ALL WATER VALVE VAULTS FURNISHED AS A PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION SHALL HAVE THE WORD "WATER" CAST INTO THE LID AND ALL COMBINATION MANHOLES FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION SHALL HAVE THE WORD "SANITARY" CAST INTO THE LID.

SAW CUTS: ALL SAW CUTS REQUIRED DUE TO CONSTRUCTION STAGING SHALL BE INCLUDED IN THE COST OF PAVEMENT REMOVAL. ALL SAW CUTS REQUIRED FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THAT ITEM.

DRIVEWAYS: LOCAL ACCESS FOR RESIDENTS AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING PROPERTIES DURING CONSTRUCTION OPERATIONS EXCEPT FOR A MAXIMUM PERIOD OF 4 CALENDAR DAYS AFTER NEW CONCRETE CURB, DRIVEWAY PAVEMENT OR SIDEWALK IS POURED. BUSINESSES SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THIS PERIOD.

CURB AND GUTTER: TRANSITIONS FROM EXISTING TO PROPOSED CURB AND GUTTER OR FROM PROPOSED CURB AND GUTTER OF ONE TYPE TO ANOTHER SHALL BE OVER A 10' LENGTH AND PAID FOR WITH THE CURB AND GUTTER TYPE HAVING THE HIGHER UNIT PRICE.

CLASS C PATCHES: FOR PATCHES EXCEEDING 20 FEET IN LENGTH THE LONGITUDINAL JOINT TIE BARS (NO. 6 X 30" EPOXY COATED @ 30" CTS) WILL BE REQUIRED AND SHALL BE INCLUDED IN THE COST OF CLASS C PATCHES, 9" OF THE TYPE SPECIFIED.

PAVEMENT MARKINGS: THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT (847) 715-8419 AT LEAST TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.

WATER: THE CONTRACTOR MUST OBTAIN A FIRE HYDRANT PERMIT FROM THE VILLAGE IN ORDER TO OBTAIN ACCESS TO MUNICIPAL WATER. THE CONTRACTOR WILL BE REQUIRED TO SUPPLY THEIR OWN RPZ BACKFLOW PREVENTOR WHEN ACCESSING MUNICIPAL WATER. THE CONTRACTOR CAN PICK UP A VILLAGE ISSUED HYDRANT METER AT THE VILLAGE PUBLIC WORKS LOCATED AT 9050 GROSS POINT ROAD. CONTACT (847) 933-8277. A $1,000 DEPOSIT (CASH, CHECK, VISA, OR MASTERCARD) IS REQUIRED BEFORE A VILLAGE HYDRANT METER WILL BE ISSUED. THE DEPOSIT WILL BE REFUNDED IF THE METER IS RETURNED IN GOOD CONDITION.

THE CONTRACTOR SHALL NOTIFY THE WATER & SEWER DIVISION SUPERINTENDENT JEAN SCHER AT (847) 933-8277 48 HOURS PRIOR TO ANY FIRE HYDRANT OR WATER MAIN WORK.

ENVIRONMENTAL FIRM: THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM TO CONTINUOUSLY MONITOR FOR WORKER SAFETY AND SOIL CONTAMINATION AT SEVERAL AREAS. SEE SPECIAL PROVISION AND SUPPLEMENTAL SPECIFICATIONS FOR DETAILS.

THE ENVIRONMENTAL FIRM IS REQUIRED TO CONTINUOUSLY MONITOR FOR WORKER PROTECTION AND SOIL CONTAMINATION AT SEVERAL AREAS. SEE SPECIAL PROVISION AND SUPPLEMENTAL SPECIFICATIONS FOR DETAILS.

MWRDGC NOTES:

1. THE MWRDGC LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
2. THE ELEVATION DATUM IS USGS.
3. THERE ARE NO FLOOR DRAINS ON THIS PROJECT.
4. THERE ARE NO FOOTING DRAINS OR DOWNSPOUTS ON THIS PROJECT.
5. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO:

PIPE MATERIAL SPEC.	JOINT SPEC.
VITRIFIED CLAY PIPE	
VCP C-700	C-425
VCP (NO BEL) C-700	
JOINT	C-425
COLLAR	D-1784
CONCRETE PIPE C-14	C-443
RCP C-76	C-443
ACP C-428	D-1869
ABS SEWER PIPE	
SOLID WALL 6" DIA. SDR 23.5	
ABS D-2751	D-2751
ABS COMPOSITE/TRUSS PIPE	
8"-15" DIA.	
ABS D-2680	D-2680
PVC GRAVITY SEWER PIPE	
6"-15" DIA. SDR 26	
D-3034	D-3212 OR D-2855
18"-27" DIA. F/DY=46	
F-679	D-3212 OR D-2855
CISP A-74	C-564
DIP A-21.51	A-21.11

(NOTE: THE DISTRICT HAS APPROVED LESS COMMON PIPE MATERIALS ON A QUALIFIED BASIS IN ADDITION TO THOSE ABOVE. PLEASE CONTACT THE DISTRICT IF CONSIDERING USING PIPE NOT LISTED ABOVE.)

6. ALL STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS, REQUIRES STONE BEDDING WITH STONE 1/4 " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
7. "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS. THE COST OF THESE COUPLINGS WILL BE INCLUDED IN THE COST OF THE PROPOSED PIPE.
8. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED: (SEE MWRDGC DETAILS)
   1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
   2. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
   3. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
9. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATER MAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CAN NOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.
10. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
11. RESILIENT CONNECTORS CONFORMING TO ASTM C-923, SHALL BE USED BETWEEN DRAINAGE AND SANITARY STRUCTURES AND PIPES. RESILIENT CONNECTORS CONFORMING TO ASTM C-443 SHALL BE PROVIDED BETWEEN PRECAST MANHOLE AND CATCH BASIN SECTIONS. THE COST OF RESILIENT CONNECTORS WILL BE INCLUDED IN THE COST OF THE PROPOSED STRUCTURE OR PIPE.
12. ALL ABANDONED SEWERS SHALL BE PLUGGED WITH TWO FOOT (2') LONG NON-SHRINK CONCRETE OR MORTAR PLUGS AT BOTH ENDS. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT INCLUDED IN THE COST OF THE CONTRACT.
13. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TO BE TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

NOTE: BOXED ITEMS ARE INCIDENTAL ITEMS.

Tran Systems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\chi85\0045\road\sheets\8145-6-103-Notes.sht	USER NAME = CEComin	DESIGNED CEC	REVISED -
		DRAWN CEC	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	3
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	PAY ITEM	UNIT	QUANTITY	0004 ROADWAY SKOKIE 70% STU 15% STATE 15% LA (RECON-STRUCTION)	0004 ROADWAY SKOKIE 70% STU 30% STATE (REHAB.- STA. 127+31.09 TO 135+97)	0004 ROADWAY SKOKIE 100% STATE (RESURF- STA. 120+50 TO 127+31.09)	0043 ROADWAY IN-LINE DETENTION 70% STU 30% LA	0021 LIGHTING SKOKIE 70% STU 30% LA	0021 SIGNALS SOUTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS MIDDLE MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS NORTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS OLD ORCHARD 70% STU 15% STATE 15% LA	0021 SIGNALS INTERCONNECT 70% STU 30% STATE	0043 WATER, SIDEWALK & ITEMS SKOKIE NON-PART 100% LA	0021 SIGNALS EMERGENCY VEHICLE PREEMPTION 100% LA
20100110	• TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	62	44	18										
20101000	TEMPORARY FENCE	FOOT	3,280	1,440	1,040	800									
20101200	• TREE ROOT PRUNING	EACH	82	36	26	20									
20101300	• TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	61	22	20	19									
20101350	• TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	21	14	6	1									
20200100	EARTH EXCAVATION	CU YD	5,712	4,556	926	63								167	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3,084	2,551	275									258	
20800150	TRENCH BACKFILL	CU YD	7,076	409	341	91	4,735							1,500	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,605	1,509	96										
21101615	• TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,704	2,172	1,522	1,010									
21301072	EXPLORATION TRENCH 72" DEPTH	FOOT	200	200											
25000400	• NITROGEN FERTILIZER NUTRIENT	POUND	59	27	19	13									
25000500	• PHOSPHORUS FERTILIZER NUTRIENT	POUND	59	27	19	13									
25000600	• POTASSIUM FERTILIZER NUTRIENT	POUND	59	27	19	13									
25200110	• SODDING, SALT TOLERANT	SQ YD	4,704	2,172	1,522	1,010									
25200200	• SUPPLEMENTAL WATERING	UNIT	15	7	5	3									
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	108	57	32	19									
28000510	INLET FILTERS	EACH	93	65	24	4									
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	3,623	1,056	760	1,126								681	
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	9,972	9,012	960										
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	11,078	11,078											
35301200	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	2,763	2,763											
35400400	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9"	SQ YD	1,116	508	608										
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	5,598	2,901	1,496	1,201									
40600300	AGGREGATE (PRIME COAT)	TON	113	58	30	25									
X4060826	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	468		170	298									
40600895	CONSTRUCTING TEST STRIP	EACH	2	2											
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	76			76									
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	86											86	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	48	48											
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	3,343	1,806	1,537										
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	12	12											
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	2,730	1,407	734	589									
42001300	PROTECTIVE COAT	SQ YD	6,497	3,306	1,321	1,190								680	

• SPECIALTY ITEM

Tran Systems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\CHI80\0045\Road\Sheets\0045-G-104-SumQty.sht	USER NAME = CEComin	DESIGNED CEC	REVISED -
		DRAWN CEC	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 1 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	4
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	PAY ITEM	UNIT	QUANTITY	0004 ROADWAY SKOKIE 70% STU 15% STATE 15% LA (RECON-STRUCTION)	0004 ROADWAY SKOKIE 70% STU 30% STATE (REHAB.- STA. 127+31.09 TO 135+97)	0004 ROADWAY SKOKIE 100% STATE (RESURF- STA. 120+50 TO 127+31.09)	0043 ROADWAY IN-LINE DETENTION 70% STU 30% LA	0021 LIGHTING SKOKIE 70% STU 30% LA	0021 SIGNALS SOUTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS MIDDLE MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS NORTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS OLD ORCHARD 70% STU 15% STATE 15% LA	0021 SIGNALS INTERCONNECT 70% STU 30% STATE	0043 WATER, SIDEWALK & ITEMS SKOKIE NON-PART 100% LA	0021 SIGNALS EMERGENCY VEHICLE PREEMPTION 100% LA
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	118	118											
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	22,249	6,443	4,667	5,066								6,073	
42400800	DETECTABLE WARNINGS	SQ FT	298	210										88	
44000100	PAVEMENT REMOVAL	SQ YD	18,328	16,714	1,285	329									
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	4,108			4,108									
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	314	271	43										
44000300	CURB REMOVAL	FOOT	233	197	36										
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	9,121	5,008	2,826	1,287									
44000600	SIDEWALK REMOVAL	SQ FT	14,889	5,546	4,277	5,066									
44002220	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 5"	SQ YD	317											317	
44003100	MEDIAN REMOVAL	SQ FT	16,475	13,527	1,269	1,679									
44201337	CLASS C PATCHES, TYPE I, 9 INCH	SQ YD	4		4										
44201341	CLASS C PATCHES, TYPE II, 9 INCH	SQ YD	39		11									28	
44201345	CLASS C PATCHES, TYPE III, 9 INCH	SQ YD	89		53	36									
44201347	CLASS C PATCHES, TYPE IV, 9 INCH	SQ YD	4,426		453	81	2,307							1,585	
50102400	CONCRETE REMOVAL	CU YD	6	6											
550A0830	STORM SEWERS, CLASS A, TYPE 3 78"	FOOT	234				234								
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	1,234	825	329	80									
550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	91			91									
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	461	203	258										
550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	161		122	39									
550A2540	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	FOOT	18		18										
550A2640	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 60"	FOOT	62	62											
550A2660	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 72"	FOOT	1,504				1,504								
550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	FOOT	32				32								
55100200	STORM SEWER REMOVAL 6"	FOOT	12		12										
55100300	STORM SEWER REMOVAL 8"	FOOT	239	14	158	67									
55100400	STORM SEWER REMOVAL 10"	FOOT	47		11	36									
55100500	STORM SEWER REMOVAL 12"	FOOT	135	135											
55100700	STORM SEWER REMOVAL 15"	FOOT	47	47											
* 56100200	WATER MAIN 1 1/2"	FOOT	18											18	
* 56100600	WATER MAIN 6"	FOOT	334											334	
* 56100700	WATER MAIN 8"	FOOT	47											47	
* 56100900	WATER MAIN 12"	FOOT	2,781											2,781	

• SPECIALTY ITEM

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		DRAWN CEC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 2 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	5
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	PAY ITEM	UNIT	QUANTITY	0004 ROADWAY SKOKIE 70% STU 15% STATE 15% LA (RECON-STRUCTION)	0004 ROADWAY SKOKIE 70% STU 30% STATE (REHAB.- STA. 127+31.09 TO 135+97)	0004 ROADWAY SKOKIE 100% STATE (RESURF- STA. 120+50 TO 127+31.09)	0043 ROADWAY IN-LINE DETENTION 70% STU 30% LA	0021 LIGHTING SKOKIE 70% STU 30% LA	0021 SIGNALS SOUTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS MIDDLE MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS NORTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS OLD ORCHARD 70% STU 15% STATE 15% LA	0021 SIGNALS INTERCONNECT 70% STU 30% STATE	0043 WATER, SIDEWALK & ITEMS SKOKIE NON-PART 100% LA	0021 SIGNALS EMERGENCY VEHICLE PREEMPTION 100% LA
56101000	• WATER MAIN 16"	FOOT	256											256	
56104900	• WATER VALVES 6"	EACH	4											4	
56105000	• WATER VALVES 8"	EACH	1											1	
56105200	• WATER VALVES 12"	EACH	5											5	
56105300	• WATER VALVES 16"	EACH	1											1	
56106300	• ADJUSTING WATER MAIN 6"	FOOT	34		34										
56400400	• FIRE HYDRANTS TO BE RELOCATED	EACH	2											2	
56400500	• FIRE HYDRANTS TO BE REMOVED	EACH	9											9	
56400820	• FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	11											11	
56500800	• DOMESTIC WATER SERVICE BOXES	EACH	1											1	
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	27	16	9	2									
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1											
60208230	CATCH BASINS, TYPE C, TYPE 23 FRAME AND GRATE	EACH	2	1	1										
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1											
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1											
60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1											
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1											
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	14	6	7	1									
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	2	2											
60240327	INLETS, TYPE B, TYPE 23 FRAME AND GRATE	EACH	9	2	7										
60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	2	2											
60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5											5	
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6											6	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	17	17											
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1											
60255500	MANHOLES TO BE ADJUSTED	EACH	19	15			4								
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1											
60260100	INLETS TO BE ADJUSTED	EACH	4	4											
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	16											16	
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1											1	
60404940	FRAMES AND GRATES, TYPE 23	EACH	18	18											
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	29	21	4	4									
60500040	REMOVING MANHOLES	EACH	1	1											
60500050	REMOVING CATCH BASINS	EACH	14	8	5	1									

• SPECIALTY ITEM

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1476 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
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		DRAWN CEC	REVISED -	
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	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -	

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 3 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	6
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	PAY ITEM	UNIT	QUANTITY	0004 ROADWAY SKOKIE 70% STU 15% STATE 15% LA (RECON-STRUCTION)	0004 ROADWAY SKOKIE 70% STU 30% STATE (REHAB.- STA. 127+31.09 TO 135+97)	0004 ROADWAY SKOKIE 100% STATE (RESURF.- STA. 120+50 TO 127+31.09)	0043 ROADWAY IN-LINE DETENTION 70% STU 30% LA	0021 LIGHTING SKOKIE 70% STU 30% LA	0021 SIGNALS SOUTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS MIDDLE MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS NORTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS OLD ORCHARD 70% STU 15% STATE 15% LA	0021 SIGNALS INTERCONNECT 70% STU 30% STATE	0043 WATER, SIDEWALK & ITEMS SKOKIE NON-PART 100% LA	0021 SIGNALS EMERGENCY VEHICLE PREEMPTION 100% LA
60500060	REMOVING INLETS	EACH	12	5	5	2									
60500405	FILLING VALVE VAULTS	EACH	10											10	
60600605	CONCRETE CURB, TYPE B	FOOT	317	52	36	229									
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	4,772	3,485		1,287									
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	296	296											
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	553	553											
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	2,566	2,096	470										
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	8,042	4,263	819	2,960									
60624600	CORRUGATED MEDIAN	SQ FT	2,727	2,439	111	177									
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1											
66900200	* NON-SPECIAL WASTE DISPOSAL	CU YD	100	100											
66900450	* SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1											
66900530	* SOIL DISPOSAL ANALYSIS	EACH	9	9											
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12											
67100100	MOBILIZATION	L SUM	1	1											
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,200	2,200											
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	7,000	7,000											
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	100,000	100,000											
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	18,000	18,000											
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	800	800											
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	3,000	3,000											
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	25,000	25,000											
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2,005				2,005								
72000100	• SIGN PANEL - TYPE 1	SQ FT	273	190	34.0	49.0									
72400100	• REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	10	6	2	2									
72400310	• REMOVE SIGN PANEL - TYPE 1	SQ FT	152	140.5	5.0	6.5									
72400500	• RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	4	4											
72400710	• RELOCATE SIGN PANEL - TYPE 1	SQ FT	8	8.0											
72900100	• METAL POST - TYPE A	FOOT	364	248	66	50									
72900200	• METAL POST - TYPE B	FOOT	52	52											
78000100	• THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	291	291											
78000200	• THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,743	4,743											
78000400	• THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,979	1,979											
78000600	• THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	158	158											

• SPECIALTY ITEM

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1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 4 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	7
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	PAY ITEM	UNIT	QUANTITY	0004 ROADWAY SKOKIE 70% STU 15% STATE 15% LA (RECON-STRUCTION)	0004 ROADWAY SKOKIE 70% STU 30% STATE (REHAB.- STA. 127+31.09 TO 135+97)	0004 ROADWAY SKOKIE 100% STATE (RESURF- STA. 120+50 TO 127+31.09)	0043 ROADWAY IN-LINE DETENTION 70% STU 30% LA	0021 LIGHTING SKOKIE 70% STU 30% LA	0021 SIGNALS SOUTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS MIDDLE MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS NORTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS OLD ORCHARD 70% STU 15% STATE 15% LA	0021 SIGNALS INTERCONNECT 70% STU 30% STATE	0043 WATER, SIDEWALK & ITEMS SKOKIE NON-PART 100% LA	0021 SIGNALS EMERGENCY VEHICLE PREEMPTION 100% LA
78000650	• THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	98	98											
78008200	• POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	473	255	109	109									
78008210	• POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	8,577	4,234	3,719	624									
78008230	• POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	3,056	1,827	149	1,080									
78008240	• POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	1,505	838	667										
78008250	• POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	412	248	164										
78008270	• POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	729	330	181	218									
78100100	• RAISED REFLECTIVE PAVEMENT MARKER	EACH	382	215	82	85									
78300100	PAVEMENT MARKING REMOVAL	SQ FT	274	173	57	44									
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	350	350											
80400100	• ELECTRIC SERVICE INSTALLATION	EACH	1					1							
80400200	• ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1					1							
80500010	• SERVICE INSTALLATION - GROUND MOUNTED	EACH	1									1			
81028200	• UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3,040					1,148		313	614	965			
81028210	• UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	161								126	35			
81028220	• UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	63								19	44			
81028240	• UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,213					326			342	545			
81400100	• HANDHOLE	EACH	10							1	4	5			
81400200	• HEAVY-DUTY HANDHOLE	EACH	6							1	1	4			
81400300	• DOUBLE HANDHOLE	EACH	3								1	2			
81603040	• UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	500					500							
81603090	• UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	7,700					7,700							
81702180	• ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	600					600							
81800320	• AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	1,600					1,600							
83009600	• LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. MAST ARM	EACH	35					35							
83600200	• LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	350					350							
84200500	• REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	30					30							
84200804	• REMOVAL OF POLE FOUNDATION	EACH	30					30							
84500110	• REMOVAL OF LIGHTING CONTROLLER	EACH	1					1							
85000200	• MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1						1						
86200120	• UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	4						1	1	1	1			
86400100	• TRANSCEIVER - FIBER OPTIC	EACH	2										2		
87100160	• FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F	FOOT	2,083										2,083		
87300925	• ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,219										1,219		

• SPECIALTY ITEM

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\CH88\0045\Road\Sheets\0045-G-104-SumQty.sht	USER NAME = CECamin	DESIGNED CEC	REVISED -
		DRAWN CEC	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 5 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	8
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES				0004 ROADWAY SKOKIE 70% STU 15% STATE 15% LA (RECON-STRUCTION)	0004 ROADWAY SKOKIE 70% STU 30% STATE (REHAB.- STA. 127+31.09 TO 135+97)	0004 ROADWAY SKOKIE 100% STATE (RESURF- STA. 120+50 TO 127+31.09)	0043 ROADWAY IN-LINE DETENTION 70% STU 30% LA	0021 LIGHTING SKOKIE 70% STU 30% LA	0021 SIGNALS SOUTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS MIDDLE MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS NORTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS OLD ORCHARD 70% STU 15% STATE 15% LA	0021 SIGNALS INTERCONNECT 70% STU 30% STATE	0043 WATER, SIDEWALK & ITEMS SKOKIE NON-PART 100% LA	0021 SIGNALS EMERGENCY VEHICLE PREEMPTION 100% LA
CODE NO	PAY ITEM	UNIT	QUANTITY												
87301215	• ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,548									1,548			
87301225	• ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,806						376	531	398	2,501			
87301245	• ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	7,631						422	386	2,955	3,868			
87301255	• ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	666									666			
87301305	• ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5,550							789	1,237	3,524			
87301805	• ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	213								28	185			
87301900	• ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,328								559	769			
87502440	• TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1									1			
87502480	• TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3								3				
87502520	• TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2							1	1				
87700250	• STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1								1				
87702810	• STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16 FT.	EACH	2									2			
87702900	• STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1									1			
87702930	• STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1									1			
87702990	• STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1									1			
87704425	• STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 46 FT.	EACH	1								1				
87704558	• STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 58 FT. AND 20 FT.	EACH	1									1			
87800100	• CONCRETE FOUNDATION, TYPE A	FOOT	20								16	4			
87800150	• CONCRETE FOUNDATION, TYPE C	FOOT	8								4	4			
87800400	• CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20									20			
87800415	• CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	66								27	39			
87800420	• CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21									21			
87900200	• DRILL EXISTING HANDHOLE	EACH	3							2	1				
88030020	• SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	40						8	8	9	15			
88030050	• SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7							4	3				
88030110	• SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	8						4			4			
88030210	• SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7						2	2	2	1			
88030220	• SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2						2						
88102717	• PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4						2			2			
88102747	• PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4						1			3			
88200210	• TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	48						12	8	9	19			
88500100	• INDUCTIVE LOOP DETECTOR	EACH	20								5	15			
88600100	• DETECTOR LOOP, TYPE I	FOOT	745						111	286	348				
88600700	• PREFORMED DETECTOR LOOP	FOOT	1,277								117	1,160			

• SPECIALTY ITEM

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\CH88\10145\Road\Sheets\10145-6-124-Sum0ty.sht	USER NAME = CEComin	DESIGNED CEC	REVISED -
		DRAWN CEC	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 6 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	9
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	PAY ITEM	UNIT	QUANTITY	0004 ROADWAY SKOKIE 70% STU 15% STATE 15% LA (RECON-STRUCTION)	0004 ROADWAY SKOKIE 70% STU 30% STATE (REHAB.- STA. 127+31.09 TO 135+97)	0004 ROADWAY SKOKIE 100% STATE (RESURF- STA. 120+50 TO 127+31.09)	0043 ROADWAY IN-LINE DETENTION 70% STU 30% LA	0021 LIGHTING SKOKIE 70% STU 30% LA	0021 SIGNALS SOUTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS MIDDLE MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS NORTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS OLD ORCHARD 70% STU 15% STATE 15% LA	0021 SIGNALS INTERCONNECT 70% STU 30% STATE	0043 WATER, SIDEWALK & ITEMS SKOKIE NON-PART 100% LA	0021 SIGNALS EMERGENCY VEHICLE PREEMPTION 100% LA
88700200	• LIGHT DETECTOR	EACH	10												10
88700300	• LIGHT DETECTOR AMPLIFIER	EACH	4												4
88800100	• PEDESTRIAN PUSH-BUTTON	EACH	8									8			
89000100	• TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3							1	1	1			
89502215	• MODIFY EXISTING CONTROLLER FOUNDATION	EACH	2						1	1					
89502300	• REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,471							464			2,007		
89502375	• REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4						1	1	1	1			
89502380	• REMOVE EXISTING HANDHOLE	EACH	30							2	10	18			
89502385	• REMOVE EXISTING CONCRETE FOUNDATION	EACH	22								7	15			
A2005016	• TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED	EACH	3	3											
A2008518	• TREE, ULMUS MORTON GLOSSY (TRIUMPH ELM), 2" CALIPER, BALLED AND BURLAPPED	EACH	15	2	13										
B2005716	• TREE, PYRUS CALLERYANA CHANTICLEER (CHANTICLEER CALLERY PEAR), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	2	2											
X0324907	• TEMPORARY MAST ARM 15 FT.	EACH	6					6							
X0326148	• TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	1					1							
X0327236	• TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	1					1							
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4											
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	10	9	1										
X4023000	TEMPORARY ACCESS (ROAD)	EACH	2	2											
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	8,792		6,944	1,848									
X5630006	• CUT AND CAP EXISTING 6" WATER MAIN	EACH	12											12	
X5630008	• CUT AND CAP EXISTING 8" WATER MAIN	EACH	2											2	
X5630012	• CUT AND CAP EXISTING 12" WATER MAIN	EACH	2											2	
X5630706	• CONNECTION TO EXISTING WATER MAIN 6"	EACH	6											6	
X5630708	• CONNECTION TO EXISTING WATER MAIN 8"	EACH	2											2	
X5630712	• CONNECTION TO EXISTING WATER MAIN 12"	EACH	3											3	
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	20	13	5	2									
X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	1	1											
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	8		3	4	1								
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	151	151											
X6064200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	2,814		2,814										
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1											
X8140115	* HANDHOLE TO BE ADJUSTED	EACH	4							4					
X8210451	• LUMINAIRE, STREET LIGHTING, HIGH PRESSURE SODIUM VAPOR, 400 WATT, 240 VOLT	EACH	41					41							
X8250505	• LIGHTING CONTROLLER, SPECIAL	EACH	1					1							

• SPECIALTY ITEM

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\CH88\0045\Road\Sheets\0045-6-104-SumQty.sht

USER NAME = CEComan | PLOT SCALE = 50.000 ' / IN. | PLOT DATE = 11/4/2011

DESIGNED CEC | DRAWN CEC | CHECKED DWB | DATE 11/07/2011

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 7 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	10
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

CODE NO	PAY ITEM	UNIT	QUANTITY	0004 ROADWAY SKOKIE 70% STU 15% STATE 15% LA (RECON-STRUCTION)	0004 ROADWAY SKOKIE 70% STU 30% STATE (REHAB.- STA. 127+31.09 TO 135+97)	0004 ROADWAY SKOKIE 100% STATE (RESURF- STA. 120+50 TO 127+31.09)	0043 ROADWAY IN-LINE DETENTION 70% STU 30% LA	0021 LIGHTING SKOKIE 70% STU 30% LA	0021 SIGNALS SOUTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS MIDDLE MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS NORTH MALL ENTRANCE 70% STU 30% STATE	0021 SIGNALS OLD ORCHARD 70% STU 15% STATE 15% LA	0021 SIGNALS INTERCONNECT 70% STU 30% STATE	0043 WATER, SIDEWALK & ITEMS SKOKIE NON-PART 100% LA	0021 SIGNALS EMERGENCY VEHICLE PREEMPTION 100% LA
X8360215	• LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	50					50							
X8570225	• FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL	EACH	2								1	1			
X8730250	• ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	2,258												2,258
X8900010	• TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	1										1		
XX002112	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	7					7							
XX002118	STORM SEWER DUCTILE IRON 12"	FOOT	718	321	397										
XX002948	TEMPORARY ACCESS WALK	EACH	20	20											
XX003668	PRECONSTRUCTION VIDEO TAPING	L SUM	1	1											
XX008504	PRECAST "T" MANHOLES FOR 78" DIAMETER STORM SEWER, TYPE 1 FRAME, CLOSED LID	EACH	1				1								
XX008541	PRECAST "T" MANHOLES FOR 72" DIAMETER STORM SEWER, TYPE 1 FRAME, CLOSED LID	EACH	5				5								
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	7,400	7,400											
Z0004538	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"	SQ YD	169	156	13										
Z0004910	HOT-MIX ASPHALT FOR PATCHING POTHOLES (HOT MIX)	TON	10	10											
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1											
Z0019600	DUST CONTROL WATERING	UNIT	100	100											
Z0023202	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	182	130	52										
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	262	262											
Z0033020	• LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	41					41							
Z0033028	• MAINTENANCE OF LIGHTING SYSTEM	CAL MO	15					15							
Z0033046	• RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1										1		
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	1,274	1,274											
Z0062456	TEMPORARY PAVEMENT	SQ YD	7,134	5,667	1,280	187									
Z0073510	• TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3							1	1	1			
Z0076600	•• TRAINEES	HOUR	1,500	1,500											
LR442020	BITUMINOUS PATCHING MIXTURE (GROUP II)	TON	10	10											
TOTAL															

•• TRAINEES CONSTRUCTION TYPE CODE = 0042

• SPECIALTY ITEM

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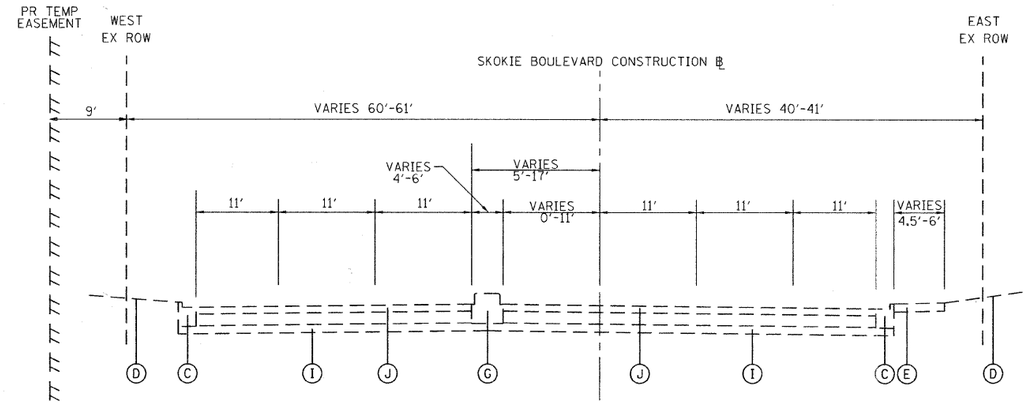
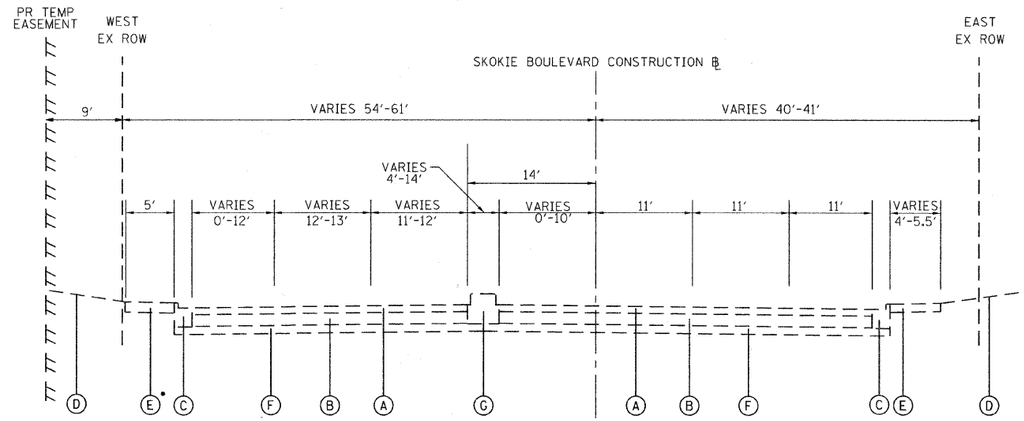
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600



EXISTING TYPICAL SECTION

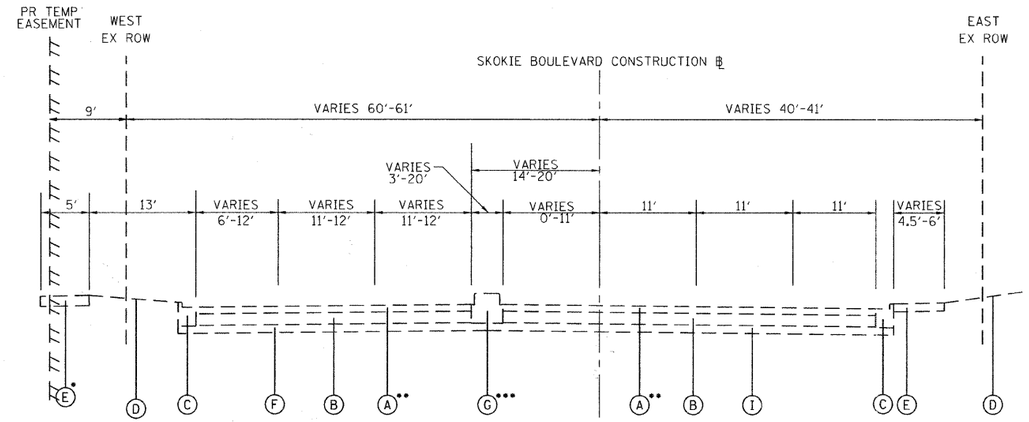
SKOKIE BOULEVARD
STATION 120+50 TO 127+31.09



• SIDEWALK IS LOCATED OUTSIDE EX ROW BETWEEN STA. 135+97 AND OLD ORCHARD ROAD

EXISTING TYPICAL SECTION

SKOKIE BOULEVARD
STATION 135+97 TO 144+01.89



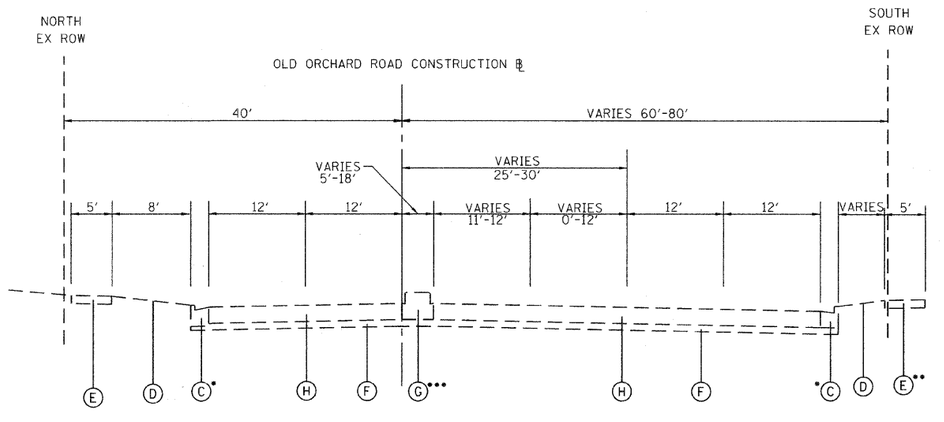
• SIDEWALK IS LOCATED FROM STA. 132+08 TO STA. 135+25

•• NOTE: SEE PAVING DETAILS SHEET 54 FOR DETAILS.

••• LANDSCAPED MEDIAN FROM STA. 127+26 TO STA. 132+61 (TO BE REMOVED AND PAID FOR AS EARTH EXCAVATION, COMB CONC C&G, TY B-6.12 ADJACENT TO THE LANDSCAPED MEDIAN TO BE REMOVED AND PAID FOR AS COMB CURB AND GUTTER REMOVAL)

EXISTING TYPICAL SECTION

SKOKIE BOULEVARD
STATION 127+31.09 TO 135+97



• COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18 ALONG OLD ORCHARD ROAD EAST OF SKOKIE BOULEVARD (TO BE REMOVED AND PAID FOR AS COMBINATION CURB AND GUTTER REMOVAL)

•• SIDEWALK IS LOCATED BOTH INSIDE AND OUTSIDE EX ROW (SEE PLANS FOR DETAILS)

••• LANDSCAPED MEDIAN FROM STA. 301+46 TO STA. 304+86 (TO BE REMOVED AND PAID FOR AS EARTH EXCAVATION, COMB CONC C&G, TY B-6.12 ADJACENT TO THE LANDSCAPED MEDIAN TO BE REMOVED AND PAID FOR AS COMB CURB AND GUTTER REMOVAL)

EXISTING TYPICAL SECTION

OLD ORCHARD ROAD
STATION 301+26.60 TO 309+88.55

EXISTING LEGEND

(A) HOT-MIX ASPHALT BINDER AND SURFACE COURSES (5″ AND VARIES) (TO BE REMOVED AND PAID FOR AS PAVEMENT REMOVAL OR HMA SURFACE REMOVAL, VARIABLE DEPTH) (SEE PLANS FOR LOCATION)

(B) PORTLAND CEMENT CONCRETE BASE COURSE (9″ AND VARIES) (TO BE REMOVED AND PAID FOR AS PAVEMENT REMOVAL)

(C) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (TO BE REMOVED AND PAID FOR AS COMBINATION CURB AND GUTTER REMOVAL)

(D) GROUND SURFACE (ASSUME EXISTING TOPSOIL DEPTH 4″)

(E) PORTLAND CEMENT CONCRETE SIDEWALK (5″) (TO BE REMOVED AS SHOWN ON PLANS AND PAID FOR AS SIDEWALK REMOVAL)

(F) AGGREGATE BASE COURSE (6″ AND VARIES) (TO BE REMOVED AND PAID FOR AS EARTH EXCAVATION) (AS SHOWN ON CROSS-SECTION)

(G) CONCRETE BARRIER MEDIAN (TO BE REMOVED AND PAID FOR AS MEDIAN REMOVAL)

(H) HOT-MIX ASPHALT BINDER AND SURFACE COURSES (13″ AND VARIES) (TO BE REMOVED AND PAID FOR AS PAVEMENT REMOVAL)

(I) AGGREGATE BASE COURSE (4″) (TO BE REMOVED AND PAID FOR AS EARTH EXCAVATION) (AS SHOWN ON CROSS-SECTION)

(J) HOT-MIX ASPHALT SURFACE COURSE, 2 ½″ (TO BE REMOVED AND PAID FOR AS HMA SURFACE REMOVAL, 2 ½″)

NOTE: ASSUME EXISTING DRIVEWAY THICKNESS 8″

Tran Systems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

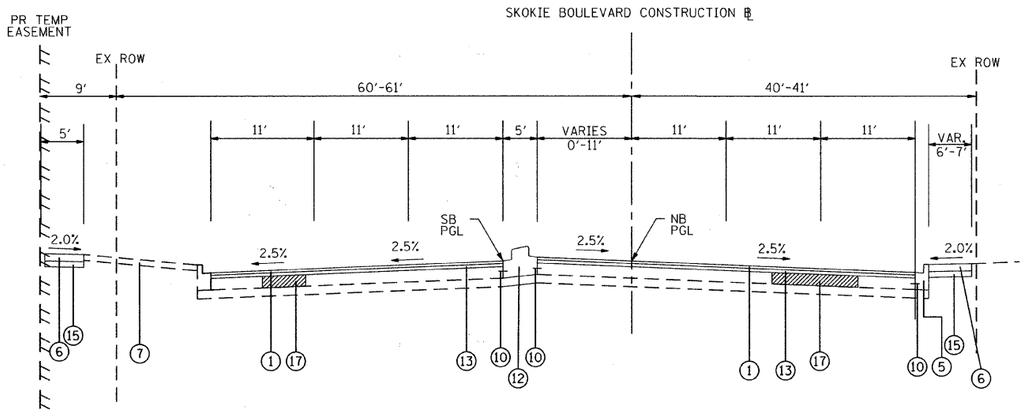
FILE NAME = gr\chi85\0045\road\sheets\0045-G-107-1gpl.dwt	USER NAME = CEComin	DESIGNED ESN	REVISED -
		DRAWN ESN	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
EXISTING TYPICAL SECTIONS

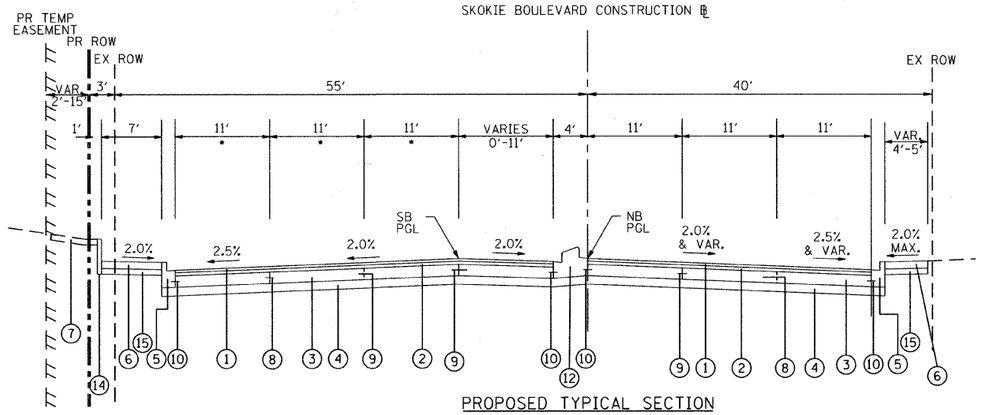
SCALE: NTS | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	12
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION

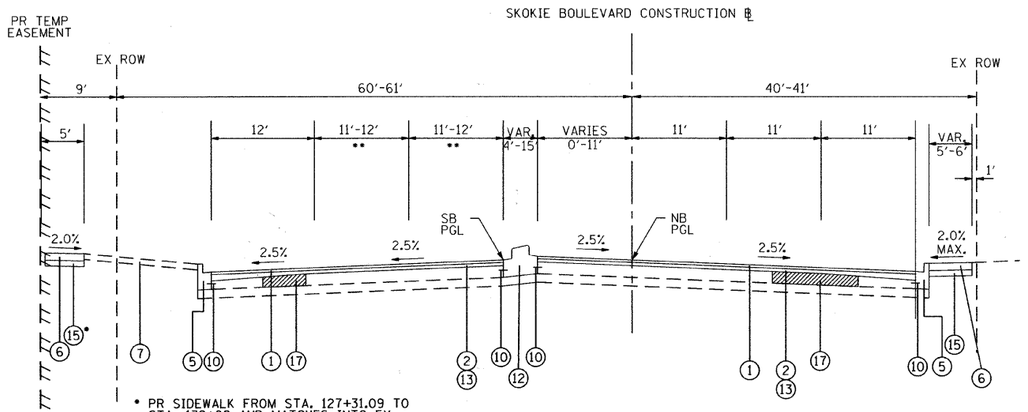
SKOKIE BOULEVARD
RESURFACING
STATION 120+50 TO 127+31.09



PROPOSED TYPICAL SECTION

SKOKIE BOULEVARD
RECONSTRUCTION (SHOWN
NORTH OF OLD ORCHARD ROAD)
STATION 135+97 TO 144+01.89

• LANE WIDTHS ARE 12′ SOUTH OF OLD ORCHARD ROAD.

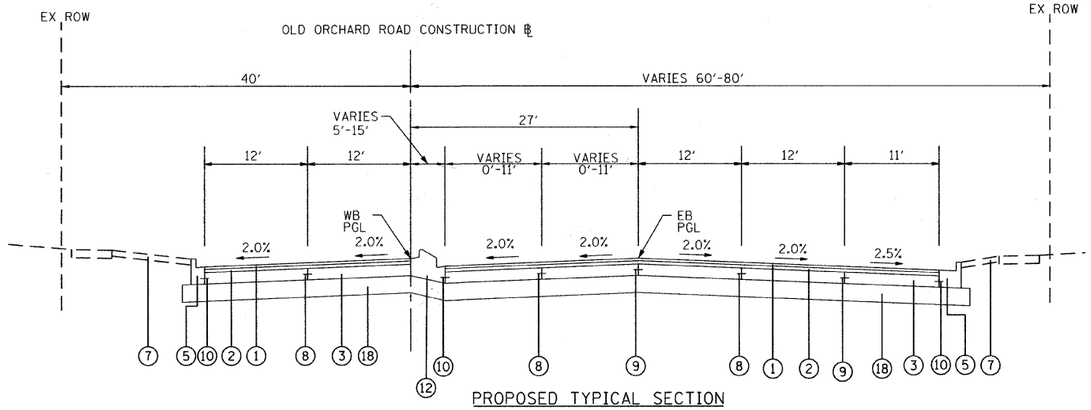


• PR SIDEWALK FROM STA. 127+31.09 TO STA. 132+08 AND MATCHES INTO EX SIDEWALK AT STA. 132+08

•• LANES TAPER FROM 11′ TO 12′ BETWEEN STA 128+50 AND 129+50.

PROPOSED TYPICAL SECTION

SKOKIE BOULEVARD
REHABILITATION/NEW C&G
STATION 127+31.09 TO 135+97



PROPOSED TYPICAL SECTION

OLD ORCHARD ROAD
(SHOWN WEST OF SKOKIE BOULEVARD)
STATION 301+26.60 TO 309+88.55

PROPOSED LEGEND

(1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 1 ¾"

(2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 2 ¼"

(3) PORTLAND CEMENT CONCRETE BASE COURSE 9" (SAWED TRANSVERSE CONTRACTION CUTS, 3" DEPTH, AT 15' SPACING INCLUDED IN COST OF PCC BASE COURSE)

(4) SUB-BASE GRANULAR MATERIAL, TYPE B 6"

(5) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12, TYPE B-6.18, TYPE B-6.24, OR TYPE B-6.12 (SPECIAL) (AS DETAILED ON PLANS)

(6) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

(7) TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
PHOSPHOROUS FERTILIZER NUTRIENT

(8) LONGITUDINAL SAWED JOINT (NO. 6 X 30" EPOXY COATED TIE BARS @ 30" CTS) (STANDARD 420001) (INCLUDED IN THE COST OF PCC BASE COURSE)

(9) LONGITUDINAL CONSTRUCTION JOINT TIE BAR FORMED IN PLACE (NO. 6 X 30" EPOXY COATED TIE BARS @ 24" CTS) (STANDARD 420001) (INCLUDED IN THE COST OF PCC BASE COURSE)

(10) LONGITUDINAL CONSTRUCTION JOINT TIE BAR GROUTED IN PLACE (NO. 6 X 24" EPOXY COATED TIE BARS @ 24" CTS) (STANDARD 606001) (INCLUDED IN THE COST OF COMBINATION CURB & GUTTER OR CONCRETE MEDIAN)

(11) NOT USED

(12) CONCRETE MEDIAN, TYPE SB-6.12

(13) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, VARIABLE DEPTH

(14) CONCRETE CURB, TYPE B (SPECIAL) (SEE DETAIL)

(15) SUB-BASE GRANULAR MATERIAL, TYPE B 4"

(16) NO. 4 X 12" EPOXY COATED TIE BARS @ 12" CTS

(17) CLASS C PATCHES, 9" FOR STORM SEWER AND WATER MAIN

(18) AGGREGATE SUBGRADE, 12"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
PROPOSED TYPICAL SECTIONS

SCALE: NTS | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	13
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SKOKIE BOULEVARD (U.S. ROUTE 41)

STRUCTURAL DESIGN TRAFFIC: YEAR 2030
PV= 28,381 SU= 300 MU= 1,194

ROAD/STREET CLASSIFICATION: CLASS I

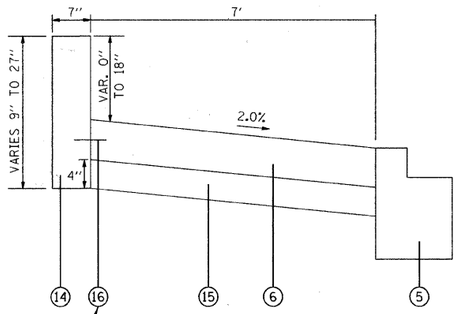
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P= 8% S= 37% M= 37%

TRAFFIC FACTOR: ACTUAL TF= 6.48 AC TYPE= SBS/SBR PG 70-22
MINIMUM TF= 4.96

THICKNESS BINDER= 2.25" SURFACE= 1.75"

PCC BASE COURSE THICKNESS= 9"

SUBGRADE SUPPORT RATING:
SSR= POOR IBR= 3.0



NOTE: THE CONTRACTOR HAS THE OPTION OF POURING THE CONCRETE CURB, TYPE B MONOLITHICALLY WITH THE SIDEWALK OR SEPARATELY. THE TIE BARS SHALL BE NO. 4 X 12" EPOXY COATED AT 12" CENTERS AND SHALL BE INCLUDED IN THE COST OF THE CONCRETE CURB, TYPE B (SPECIAL).

CONCRETE CURB TYPE B (SPECIAL) DETAIL

(STA 140+53 TO 142+13, LT)

HMA MIX REQUIREMENT CHART

MIXTURE TYPE	AIR VOIDS @ Ndes
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL 9.5mm) 1¾"	4% @ 90 GYRATIONS
POLYMERIZED HMA BINDER COURSE, IL-19.0, N90 2¼"	4% @ 90 GYRATIONS
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 ¾"	4% @ 50 GYRATIONS
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYRATIONS
DRIVEWAYS	
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm) 2"	4% @ 50 GYRATIONS
HMA BASE COURSE (HMA BINDER IL - 19mm) 8" (IN 3 LIFTS)	4% @ 50 GYRATIONS
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm) 2" (TEMPORARY PAVEMENT)	4% @ 50 GYRATIONS
HMA BINDER COURSE (IL - 19mm) 8" (TEMPORARY PAVEMENT) (IN 3 LIFTS)	4% @ 50 GYRATIONS
HMA BASE COURSE (HMA BINDER IL-19mm) (HOT-MIX ASPHALT FOR PATCHING POTHOLES)	4% @ 70 GYRATIONS

NOTES: 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS.

PROPOSED LEGEND

1. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 1 ¾"
2. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 - 2 ¼"
3. PORTLAND CEMENT CONCRETE BASE COURSE 9" (SAWED TRANSVERSE CONTRACTION CUTS, 3" DEPTH, AT 15' SPACING INCLUDED IN COST OF PCC BASE COURSE)
4. SUB-BASE GRANULAR MATERIAL, TYPE B 6"
5. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12, TYPE B-6.18, TYPE B-6.24, OR TYPE B-6.12 (SPECIAL) (AS DETAILED ON PLANS)
6. PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
7. TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT NITROGEN FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT PHOSPHOROUS FERTILIZER NUTRIENT
8. LONGITUDINAL SAWED JOINT (NO. 6 X 30" EPOXY COATED TIE BARS @ 30" CTS) (STANDARD 420001) (INCLUDED IN THE COST OF PCC BASE COURSE)
9. LONGITUDINAL CONSTRUCTION JOINT TIE BAR FORMED IN PLACE (NO. 6 X 30" EPOXY COATED TIE BARS @ 24" CTS) (STANDARD 420001) (INCLUDED IN THE COST OF PCC BASE COURSE)
10. LONGITUDINAL CONSTRUCTION JOINT TIE BAR GROUTED IN PLACE (NO. 6 X 24" EPOXY COATED TIE BARS @ 24" CTS) (STANDARD 606001) (INCLUDED IN THE COST OF COMBINATION CURB & GUTTER OR CONCRETE MEDIAN)
11. NOT USED
12. CONCRETE MEDIAN, TYPE SB-6.12
13. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, VARIABLE DEPTH
14. CONCRETE CURB, TYPE B (SPECIAL) (SEE DETAIL)
15. SUB-BASE GRANULAR MATERIAL, TYPE B 4"
16. NO. 4 X 12" EPOXY COATED TIE BARS @ 12" CTS
17. CLASS C PATCHES, 9" FOR STORM SEWER AND WATER MAIN
18. AGGREGATE SUBGRADE, 12"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
TYPICAL SECTIONS

SCALE: NTS | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	14
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

LOCATION	REM AND DISP OF UNSUITABLE MATERIAL (TOPSOIL STRIPPING) (CU YD)			CUT (CU YD)			REM AND DISP OF UNSUITABLE MATERIAL (WITHIN PROPOSED ROADWAY) (CU YD)			EARTH EXCAVATION (CU YD)			EXCAVATION TO BE USED IN EMBANKMENT (ADJ FOR 15% SHRINKAGE) (CU YD)			EMBANKMENT (CU YD)			EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)		
	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3
SOUTH END TO OLD ORCHARD (120+00 TO 139+50.00)	0	152	522	424	765	908	91	99	212	333	666	696	283	566	592	16	324	102	+267	+ 242	+ 490
OLD ORCHARD TO NORTH END (139+50.00 TO 144+00.00)	14	0	32	346	299	385	152	150	145	194	149	240	165	127	204	3	9	22	+162	+ 118	+ 182
OLD ORCHARD WEST LEG (301+26.70 TO 307+00.00)	131	38	41	1,443	819	733				1,443	819	733	1,227	696	623	0	36	7	+1,227	+ 660	+ 616
OLD ORCHARD EAST LEG (308+50.00 TO 309+88.06)	15	0	18	157	106	175				157	106	175	133	90	149	1	0	2	+132	+ 90	+147
TOTAL	160	190	613	2,370	1,989	2,201	243	249	356	2,127	1,740	1,845	1,808	1,480	1,567	20	369	133	+1,788	+1,110	+1,434

EARTHWORK SUMMARY OF QUANTITIES

	STAGE 1	STAGE 2	STAGE 3	TOTAL
EARTH EXCAVATION	2,127	1,740	1,845	5,712
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (TOPSOIL STRIPPING)	160	190	613	963
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (WITHIN PROPOSED ROADWAY)	243	249	356	847
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (UNDERCUTTING)	1274			1,274
TOTAL REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	1,677	439	969	3,084

POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) HAS BEEN PROVIDED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED, THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SCHEDULE OF QUANTITIES

SCALE:NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	15
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

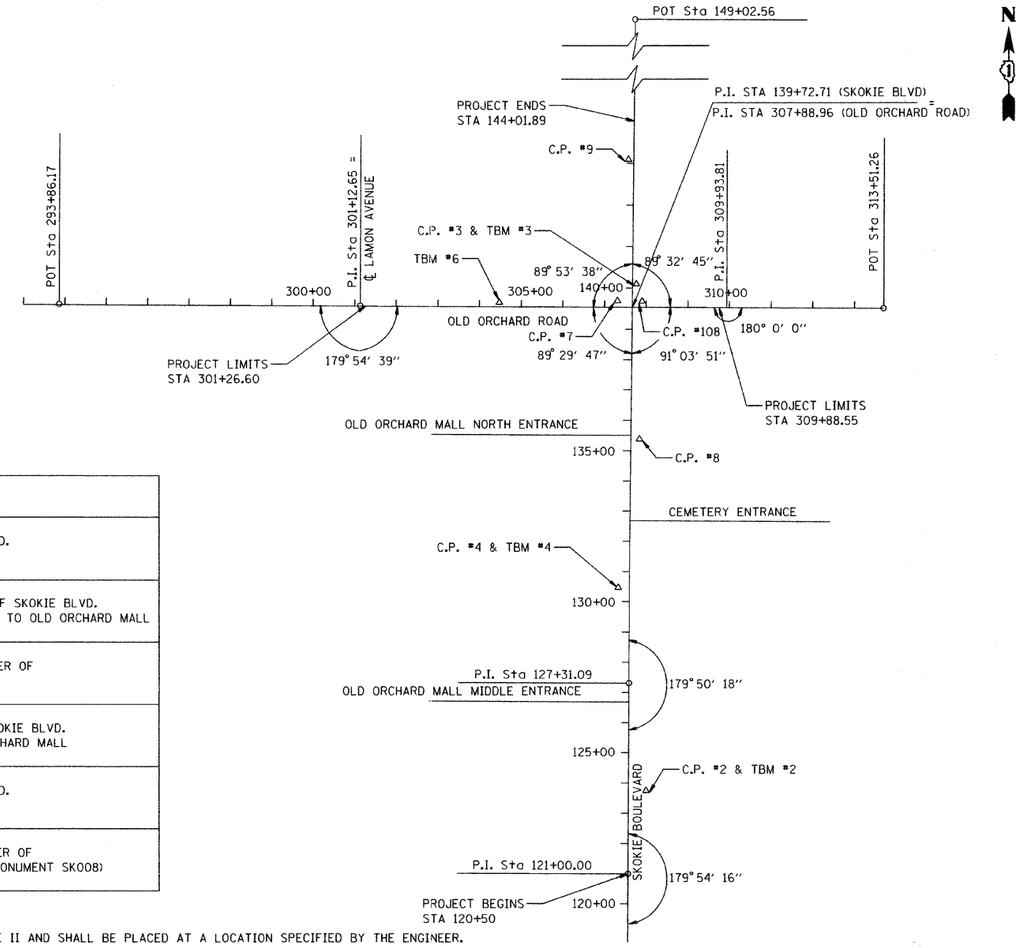
COORDINATE INFORMATION

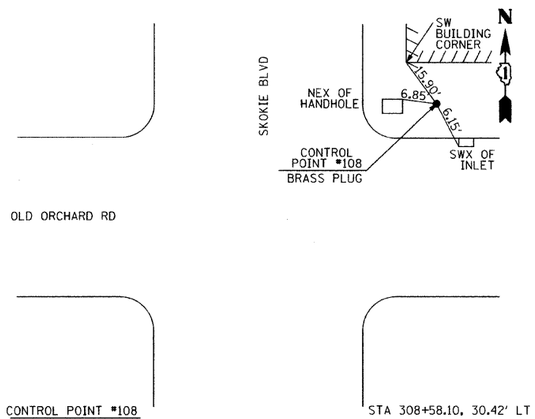
LOCATION	STATION	NORTHING	EASTING
SKOKIE BLVD. P.I.	121+00.00	1964038.92	1143543.82
SKOKIE BLVD. P.I.	127+31.09	1964669.98	1143549.81
SKOKIE BLVD/ OLD ORCHARD ROAD ℄-℄	139+72.71 (SKOKIE) 307+88.96 (O.O)	1965911.51	1143565.09
SKOKIE BLVD. POT	149+02.56	1966841.36	1143566.65
OLD ORCHARD POT	293+86.17	1965915.31	1142162.31
OLD ORCHARD P.I. = ℄ LAMON AVENUE	301+12.65	1965913.89	1142888.79
OLD ORCHARD P.I.	309+93.81	1965912.79	1143769.94
OLD ORCHARD POT	313+51.26	1965910.18	1144127.39

BENCHMARK SUMMARY

NAME	ELEVATION	STATION	DESCRIPTION
TBM "1	622.77	133+21.04, 14.83' LT	"X" IN CENTER MEDIAN OF SKOKIE BLVD. 680' ± S. OF OLD ORCHARD RD
TBM "2	631.95	122+67.86, 34.68' RT	BRASS PLUG IN SIDEWALK EAST SIDE OF SKOKIE BLVD. BETWEEN SOUTH AND MIDDLE ENTRANCE TO OLD ORCHARD MALL
TBM "7	625.17	139+02.71, 51.04' LT	"X" IN SIDEWALK AT SOUTHWEST CORNER OF SKOKIE BLVD. AND OLD ORCHARD RD
TBM "8	622.20	135+49.96, 37.41' RT	"X" IN SIDEWALK ON EAST SIDE OF SKOKIE BLVD. AT ℄ OF NORTH ENTRANCE TO OLD ORCHARD MALL
TBM "9	623.60	143+05.57, 6.69' LT	"X" IN CENTER MEDIAN OF SKOKIE BLVD. 330' ± N. OF OLD ORCHARD RD
TBM "108	625.89	308+58.10, 30.42' LT	BRASS PLUG AT THE NORTHEAST CORNER OF SKOKIE BLVD. AND OLD ORCHARD RD (MONUMENT SK008)

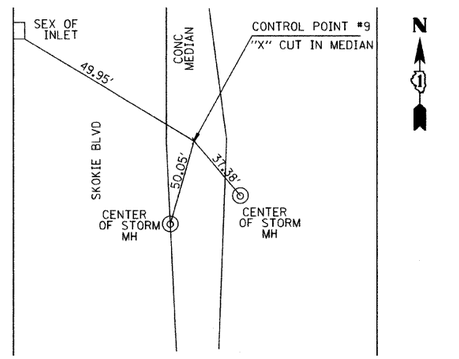
NOTE: CONTROL POINT " 108 SHALL BE REPLACED AS A PERMANENT SURVEY MARKER, TYPE II AND SHALL BE PLACED AT A LOCATION SPECIFIED BY THE ENGINEER.





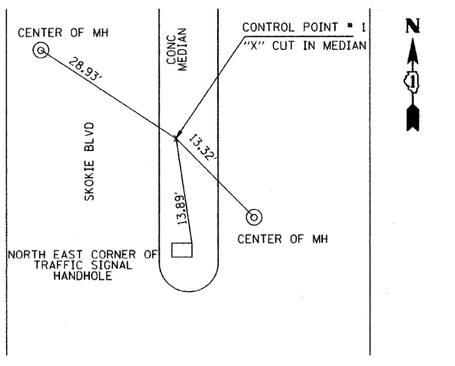
CONTROL POINT "108
N = 1965942.36
E = 1143634.04

STA 308+58.10, 30.42' LT



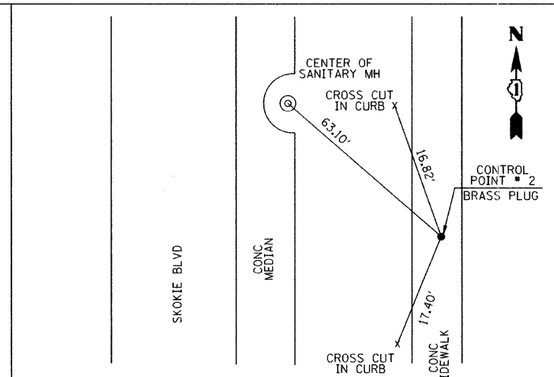
CONTROL POINT " 9
N = 1966244.38
E = 1143558.96

STA 143+05.57, 6.69' LT



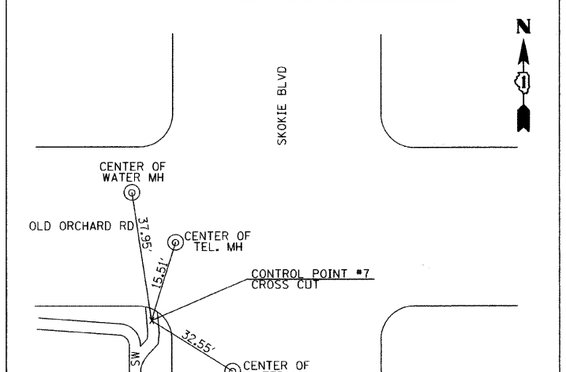
CONTROL POINT " 1
N = 1965260.06
E = 1143542.24

STA 133+21.04, 14.83' LT



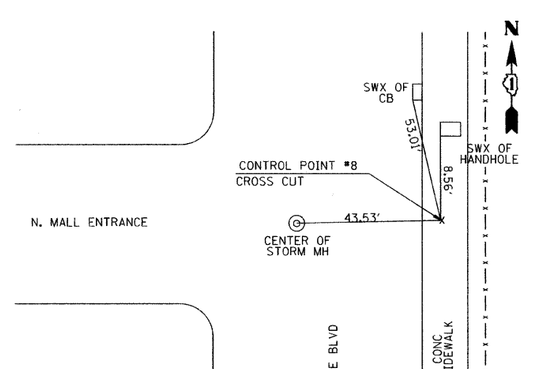
CONTROL POINT " 2
N = 1964206.45
E = 1143580.09

STA 122+67.86, 34.68' RT



CONTROL POINT "7
N = 1965842.14
E = 1143513.20

STA 139+02.71, 51.04' LT



CONTROL POINT "8
N = 1965488.33
E = 1143597.30

STA 135+49.96, 37.41' RT

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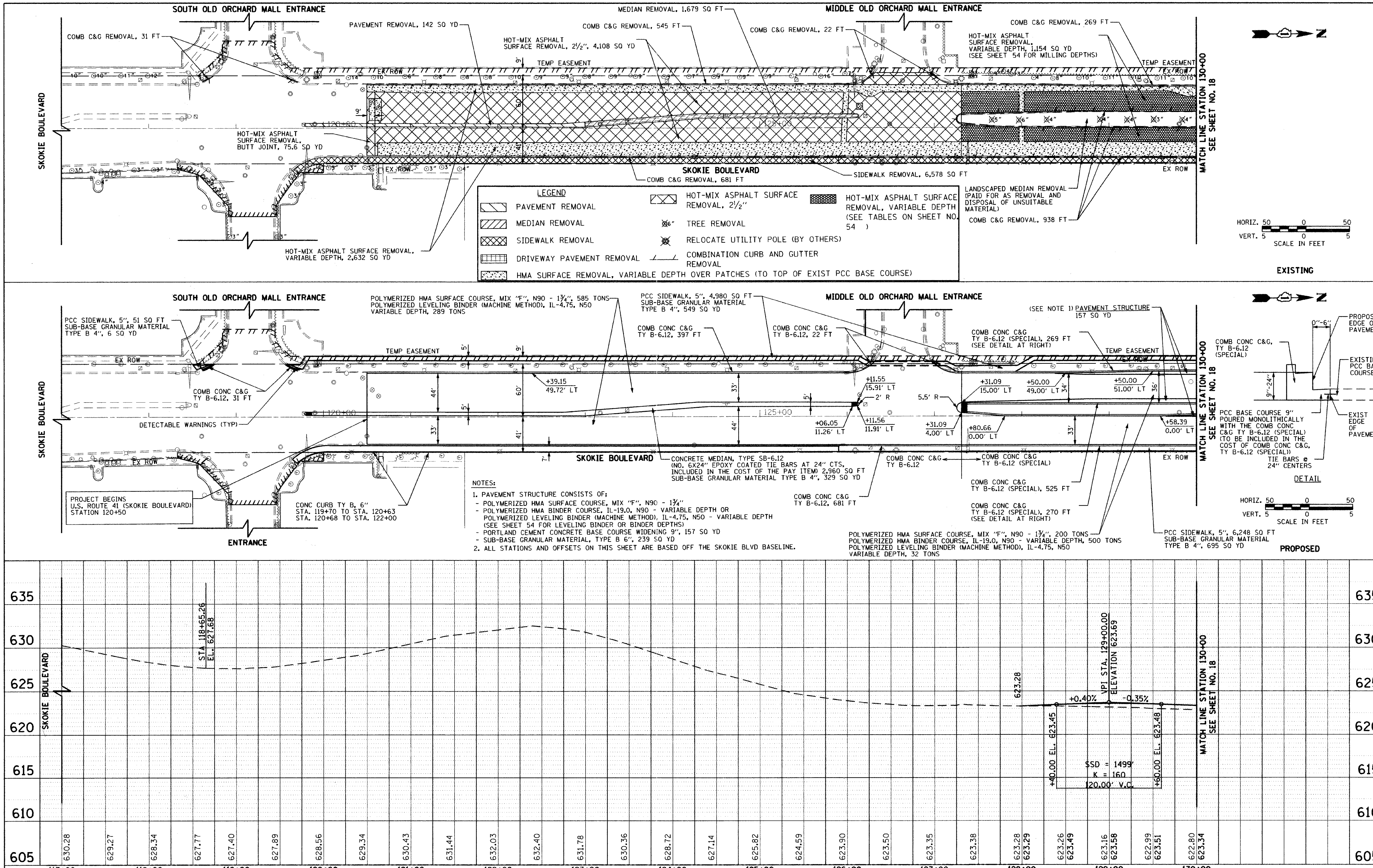
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
ALIGNMENT, TIES AND BENCHMARKS

SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	16
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



SOUTH OLD ORCHARD MALL ENTRANCE
MIDDLE OLD ORCHARD MALL ENTRANCE
SKOKIE BOULEVARD
COMB C&G REMOVAL, 31 FT
PAVEMENT REMOVAL, 142 SQ YD
HOT-MIX ASPHALT SURFACE REMOVAL, 2½", 4,108 SQ YD
COMB C&G REMOVAL, 545 FT
MEDIAN REMOVAL, 1,679 SQ FT
COMB C&G REMOVAL, 22 FT
COMB C&G REMOVAL, 269 FT
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, 1,154 SQ YD (SEE SHEET 54 FOR MILLING DEPTHS)
TEMP EASEMENT
EX ROW
HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT, 75.6 SQ YD
COMB C&G REMOVAL, 681 FT
SIDEWALK REMOVAL, 6,578 SQ FT
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, 2,632 SQ YD
LANDSCAPED MEDIAN REMOVAL (PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
COMB C&G REMOVAL, 938 FT
LEGEND
PAVEMENT REMOVAL
MEDIAN REMOVAL
SIDEWALK REMOVAL
DRIVEWAY PAVEMENT REMOVAL
HMA SURFACE REMOVAL, VARIABLE DEPTH OVER PATCHES (TO TOP OF EXIST PCC BASE COURSE)
HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
TREE REMOVAL
RELOCATE UTILITY POLE (BY OTHERS)
COMBINATION CURB AND GUTTER REMOVAL
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE TABLES ON SHEET NO. 54)
MATCH LINE STATION 130+00 SEE SHEET NO. 18
HORIZ. 50 0 50
VERT. 5 0 5
SCALE IN FEET
EXISTING
PCC SIDEWALK, 5", 51 SQ FT SUB-BASE GRANULAR MATERIAL TYPE B 4", 6 SQ YD
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 - 1¾", 585 TONS POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 VARIABLE DEPTH, 289 TONS
PCC SIDEWALK, 5", 4,980 SQ FT SUB-BASE GRANULAR MATERIAL TYPE B 4", 549 SQ YD
COMB CONC C&G TY B-6.12, 397 FT
COMB CONC C&G TY B-6.12, 22 FT
(SEE NOTE 1) PAVEMENT STRUCTURE 157 SQ YD
COMB CONC C&G TY B-6.12 (SPECIAL), 269 FT (SEE DETAIL AT RIGHT)
COMB CONC C&G, TY B-6.12 (SPECIAL)
PROPOSED EDGE OF PAVEMENT
EXISTING PCC BASE COURSE
EXIST EDGE OF PAVEMENT
PCC BASE COURSE 9" POURED MONOLITHICALLY WITH THE COMB CONC C&G TY B-6.12 (SPECIAL) (TO BE INCLUDED IN THE COST OF COMB CONC C&G, TY B-6.12 (SPECIAL))
TIE BARS @ 24" CENTERS
DETAIL
COMB CONC C&G TY B-6.12, 31 FT
DETECTABLE WARNINGS (TYP)
PROJECT BEGINS U.S. ROUTE 41 (SKOKIE BOULEVARD) STATION 120+50
CONC CURB TY B, 6" STA. 119+70 TO STA. 120+63 STA. 120+68 TO STA. 122+00
ENTRANCE
CONCRETE MEDIAN, TYPE SB-6.12 (NO. 6X24" EPOXY COATED TIE BARS AT 24" CTS. INCLUDED IN THE COST OF THE PAY ITEM) 2,960 SQ FT SUB-BASE GRANULAR MATERIAL TYPE B 4", 329 SQ YD
COMB CONC C&G TY B-6.12
COMB CONC C&G TY B-6.12 (SPECIAL)
COMB CONC C&G TY B-6.12, 681 FT
COMB CONC C&G TY B-6.12 (SPECIAL), 525 FT
COMB CONC C&G TY B-6.12 (SPECIAL), 270 FT (SEE DETAIL AT RIGHT)
NOTES:
1. PAVEMENT STRUCTURE CONSISTS OF:
- POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 - 1¾"
- POLYMERIZED HMA BINDER COURSE, IL-19.0, N90 - VARIABLE DEPTH OR POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - VARIABLE DEPTH (SEE SHEET 54 FOR LEVELING BINDER OR BINDER DEPTHS)
- PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9", 157 SQ YD
- SUB-BASE GRANULAR MATERIAL, TYPE B 6", 239 SQ YD
2. ALL STATIONS AND OFFSETS ON THIS SHEET ARE BASED OFF THE SKOKIE BLVD BASELINE.
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 - 1¾", 200 TONS POLYMERIZED HMA BINDER COURSE, IL-19.0, N90 - VARIABLE DEPTH, 500 TONS POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 VARIABLE DEPTH, 32 TONS
PCC SIDEWALK, 5", 6,248 SQ FT SUB-BASE GRANULAR MATERIAL TYPE B 4", 695 SQ YD
PROPOSED
STA. 118+65.26 EL. 627.68
VPI STA. 129+00.00 ELEVATION 623.69
+0.40% -0.35%
SSD = 1499' K = 160 120.00' V.C.
+40.00 EL. 623.45
+60.00 EL. 623.48
635 630 625 620 615 610 605
630.28 629.27 628.34 627.77 627.40 627.89 628.56 629.34 630.43 631.44 632.03 632.40 631.78 630.36 628.72 627.14 625.82 624.59 623.90 623.50 623.35 623.38 623.28 623.29 623.26 623.49 623.16 623.58 622.99 623.51 622.80 623.34
117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00 127+00 128+00 129+00 130+00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

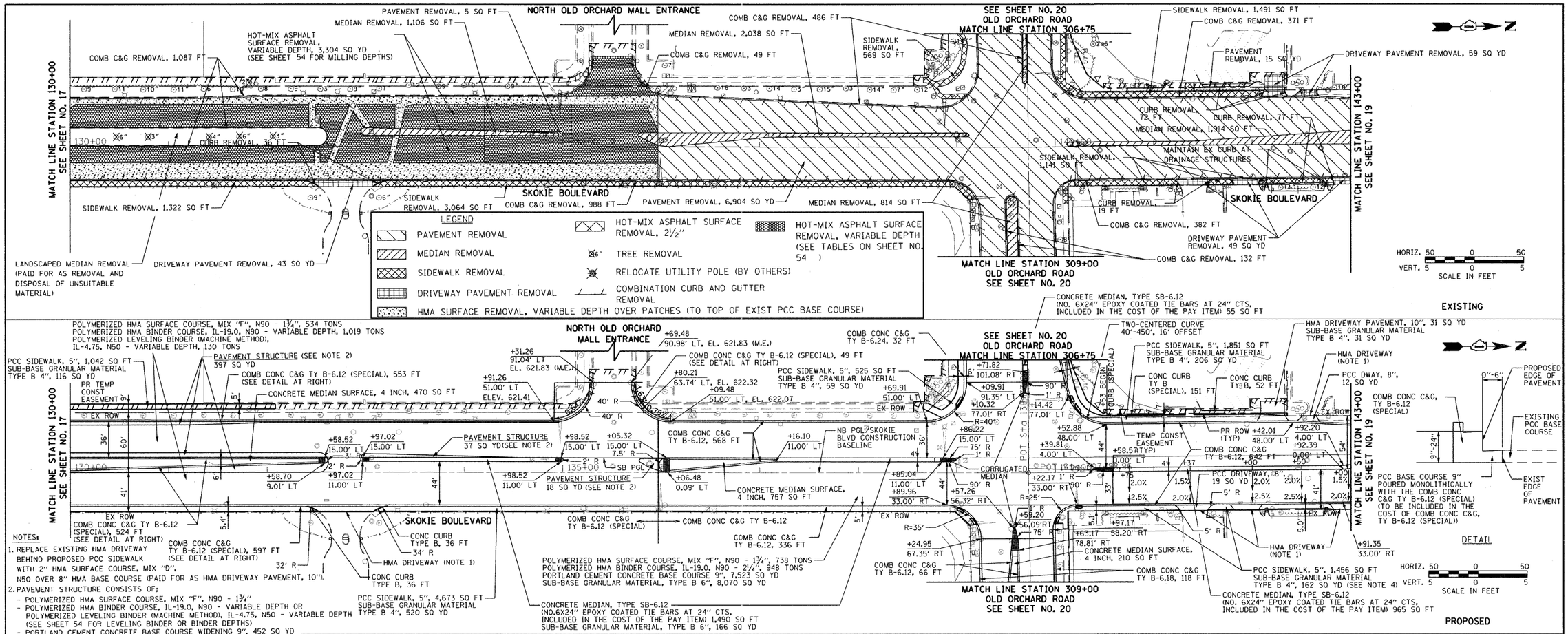
U.S. ROUTE 41 (SKOKIE BOULEVARD)
PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 1 OF 5 SHEETS | STA. 117+00 TO STA. 130+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	17

CONTRACT NO. 63566

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT



TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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DATE - 11/07/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 2 OF 5 SHEETS | STA. 130+00 | TO STA. 143+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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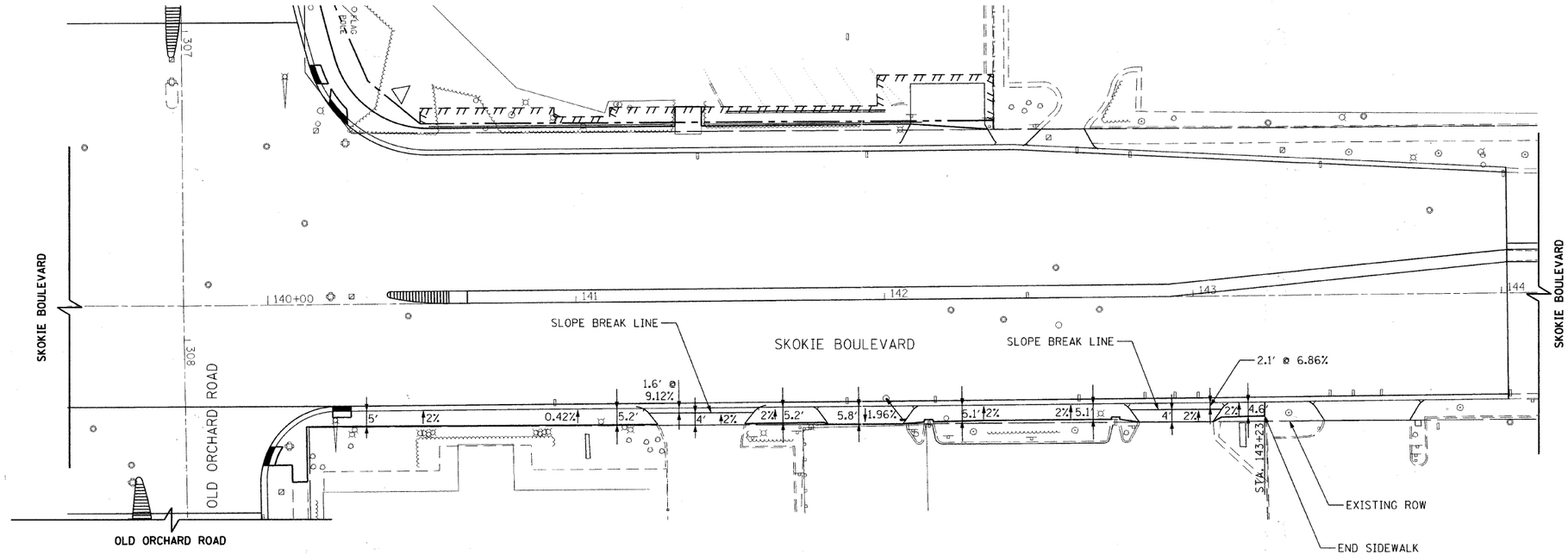
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



NOTE:
FOR INFORMATION NOT SHOWN ON THIS SHEET SEE SHEET 18

HORIZ. 20 0 20
SCALE IN FEET

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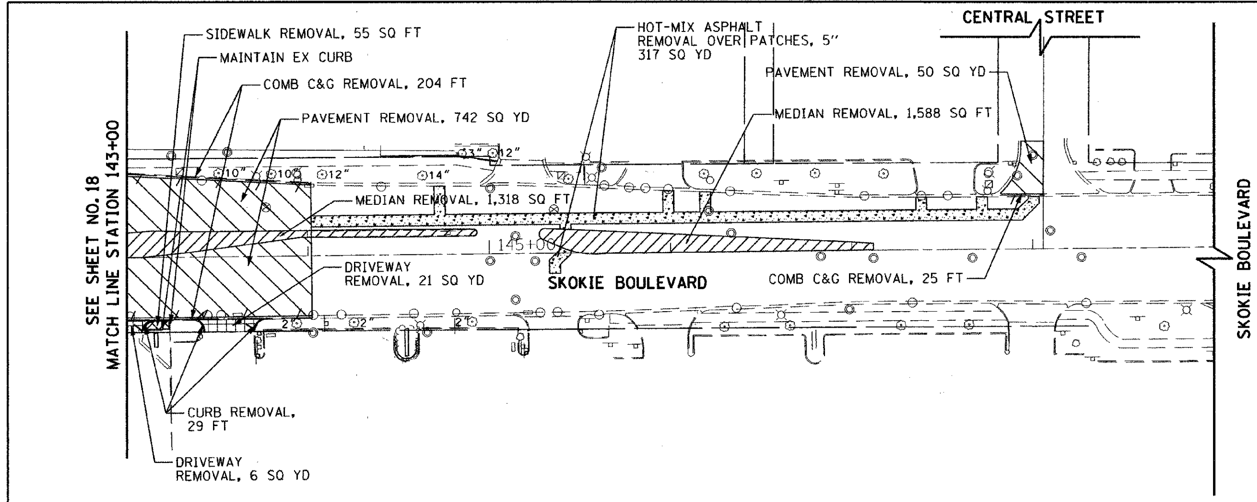
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SIDEWALK DETAILS

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. 140+00 TO STA. 143+17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	18A
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

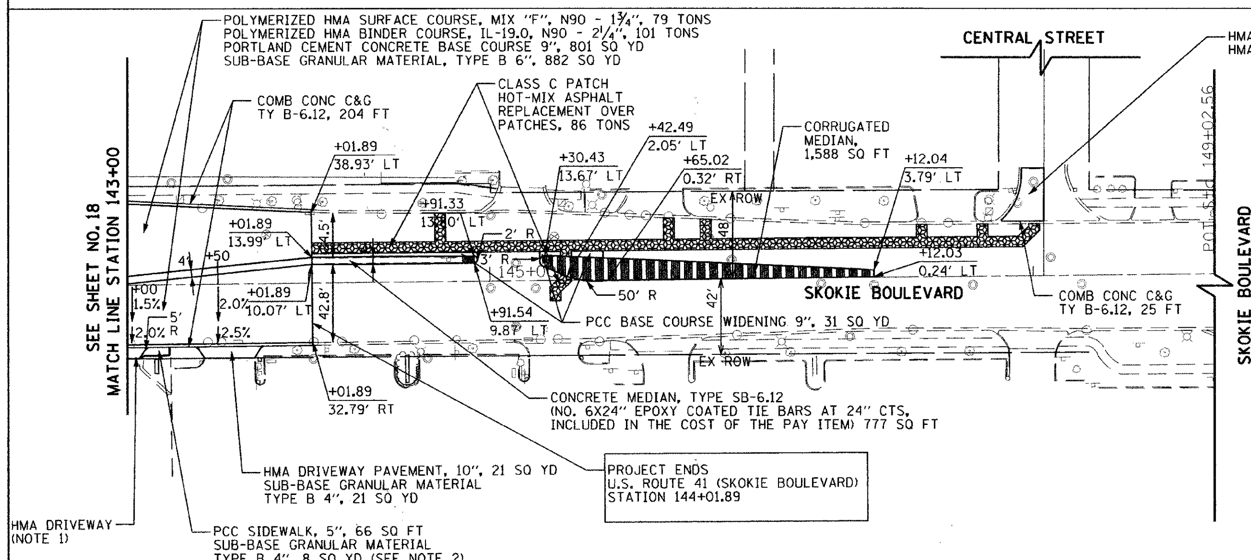


LEGEND

	PAVEMENT REMOVAL
	MEDIAN REMOVAL
	SIDEWALK REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	HMA SURFACE REMOVAL, VARIABLE DEPTH OVER PATCHES (TO TOP OF EXIST PCC BASE COURSE)
	HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
6"	TREE REMOVAL
	RELOCATE UTILITY POLE (BY OTHERS)
	COMBINATION CURB AND GUTTER REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE TABLES ON SHEET NO. 54)

HORIZ. 50 0 50
VERT. 5 0 5
SCALE IN FEET

EXISTING



LEGEND

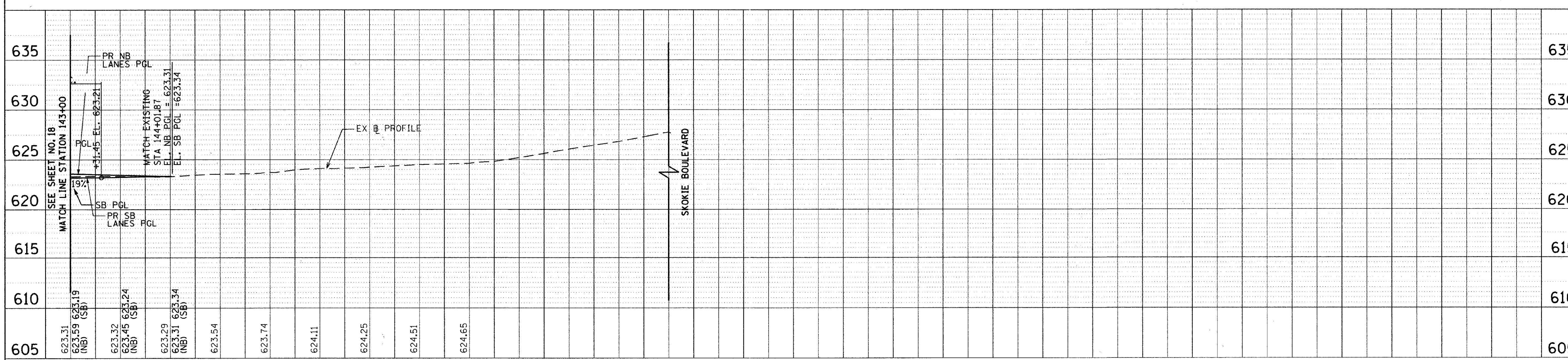
	CLASS C PATCH

NOTES:

1. REPLACE EXISTING HMA DRIVEWAY BEHIND PROPOSED PCC SIDEWALK WITH 2" HMA SURFACE COURSE, MIX "D" N50 OVER 8" HMA BASE COURSE (PAID FOR AS HMA DRIVEWAY PAVEMENT, 10")
2. REFER TO SHEET 18A FOR SIDEWALK/ DRIVEWAY DETAIL.

HORIZ. 50 0 50
VERT. 5 0 5
SCALE IN FEET

PROPOSED



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	PLOT DATE = 11/4/2011	DATE - 11/07/2011	REVISED -

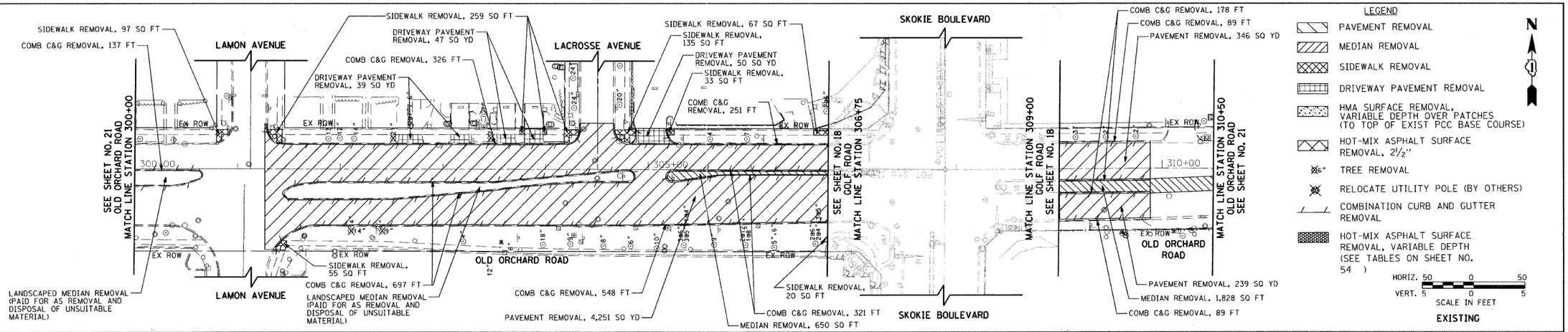
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

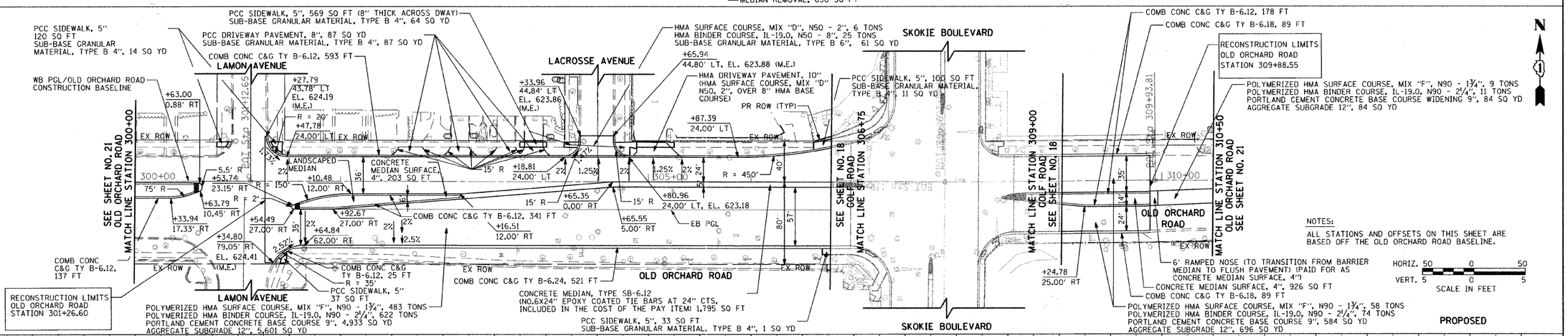
U.S. ROUTE 41 (SKOKIE BOULEVARD)
PLAN AND PROFILE

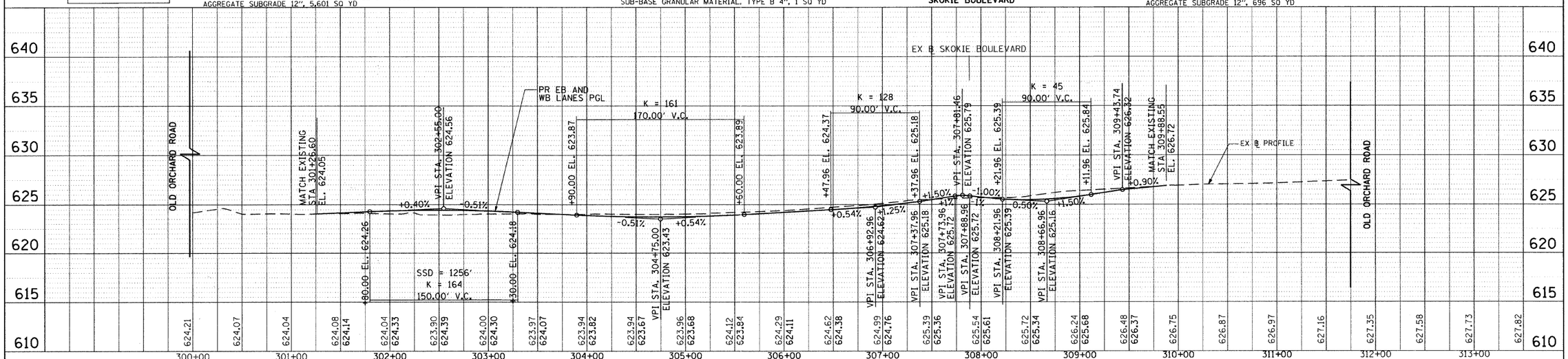
SCALE: 1"=50' | SHEET NO. 3 OF 5 SHEETS | STA. 143+00 TO STA. 149+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	19
		CONTRACT NO. 63566		

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT







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PROFILE — SURVEYED — DRAWN — CHECKED — SCALES CHECKED — NOTE BOOK — NO. — BY — DATE — (BAR, NOTED STRUCTURE NOTATIONS SKKD)

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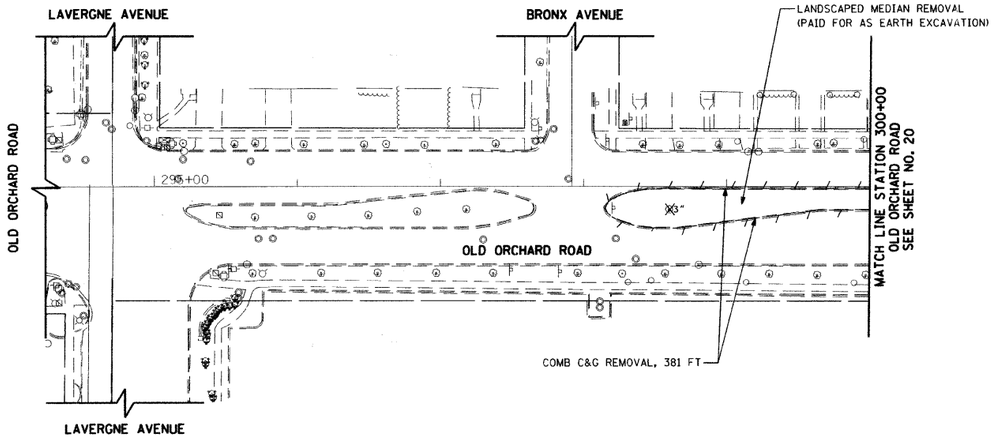
	PLOT DATE = 11/4/2011	DATE - 11/07/2011	REVISED -

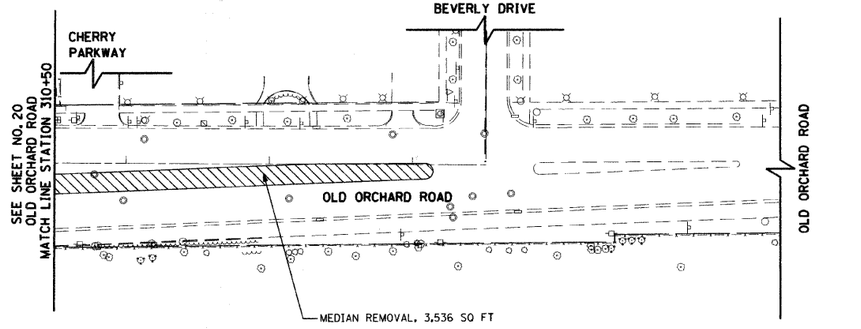
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 4 OF 5 SHEETS | STA. 300+00 TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	20
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		





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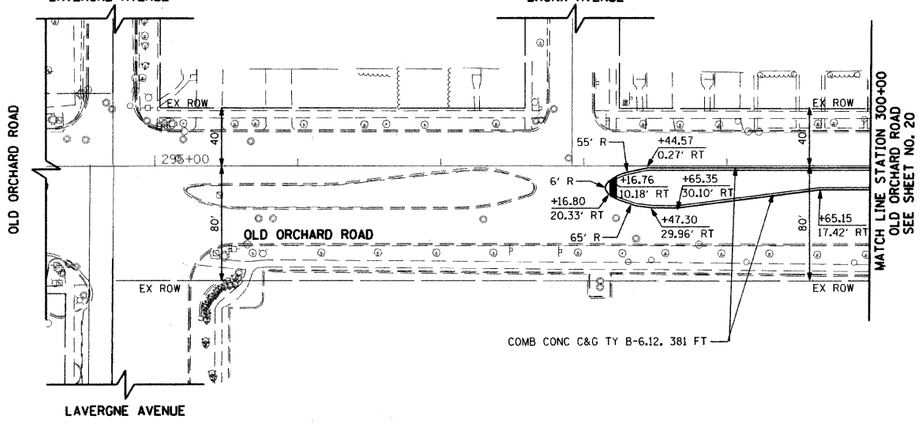

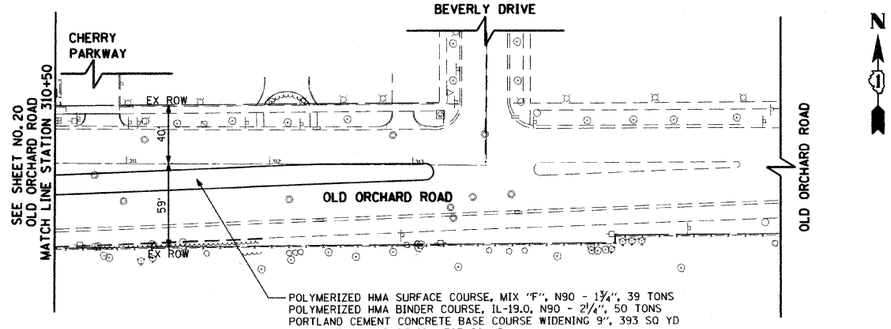

LEGEND

- PAVEMENT REMOVAL
- MEDIAN REMOVAL
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH OVER PATCHES (TO TOP OF EXIST PCC BASE COURSE)
- HOT-MIX ASPHALT SURFACE REMOVAL, 2½"
- 6" TREE REMOVAL
- RELOCATE UTILITY POLE (BY OTHERS)
- COMBINATION CURB AND GUTTER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE TABLES ON SHEET NO. 54)

HORIZ. 50 0 50
SCALE IN FEET

PROPOSED

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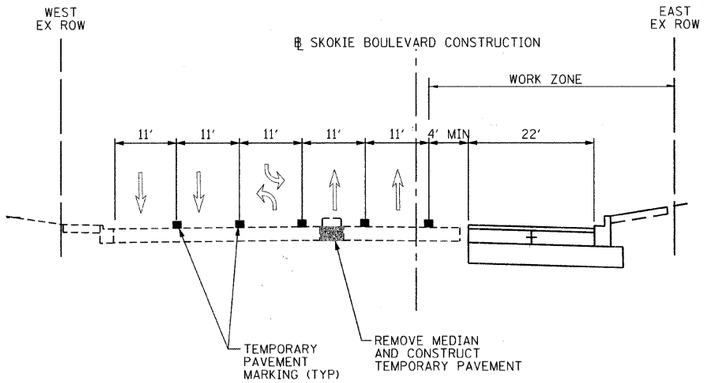
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
PLAN

SCALE: 1"=50' | SHEET NO. 5 OF 5 SHEETS | STA. 295,310+50 TO STA. 300,313+51

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	21
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



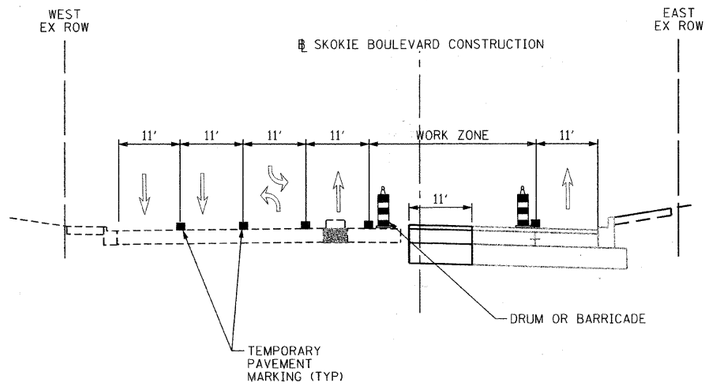
PRE-STAGE

1. NORTHBOUND TRAFFIC SHALL BE REDUCED TO ONE LANE AND TEMPORARY CONCRETE BARRIER SHALL BE INSTALLED AS SHOWN.
2. REMOVE EXISTING PAVEMENT, CURB AND GUTTER, AND SIDEWALK BETWEEN STATION 120+50 AND 135+97.
3. CONSTRUCT STORM SEWER ON SKOKIE BLVD FROM STATION 120+60 TO STATION 138+80 AND PATCH THE PAVEMENT AS SHOWN IN ROADWAY PLAN BETWEEN STATION 120+50 AND 135+97. CONSTRUCT PROPOSED CURB AND GUTTER BETWEEN STATION 120+50 AND 138+80.

STAGE 1A

1. REMOVE MEDIANS AND ISLANDS AND CONSTRUCT TEMPORARY PAVEMENT. USE TRAFFIC CONTROL STANDARDS 701427, 701502, 701601, 701602, 701701, 701801 AND 701901 TO PERFORM THIS WORK
2. INSTALL TEMPORARY TRAFFIC SIGNAL AT MIDDLE ENTRANCE, NORTH ENTRANCE AND OLD ORCHARD ROAD AND REMOVE TRAFFIC SIGNAL POST FROM THE MEDIAN AT NORTH ENTRANCE.
3. CONSTRUCT STORM SEWER AND TWO OUTSIDE NORTHBOUND LANES OF SKOKIE BLVD.

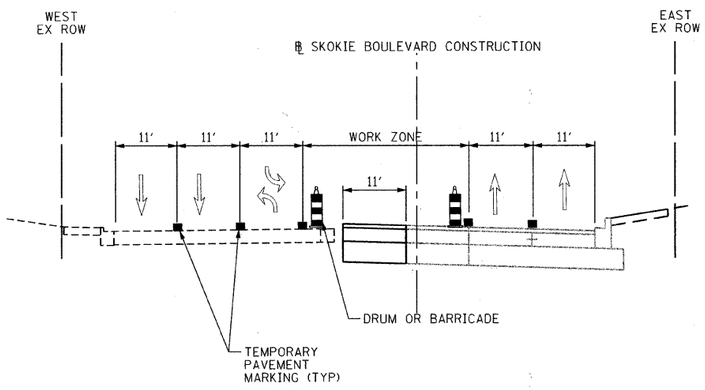
SKOKIE BLVD STAGE 1A TYPICAL SECTION



STAGE 2A

1. SETUP TRAFFIC CONTROL STRIPING, SIGNS AND BARRICADES FOR SKOKIE BOULEVARD WITH FIVE LANES OF TRAFFIC (TWO THRU LANES IN EACH DIRECTION AND ONE TURN LANE). ONE NORTH-BOUND LANE TO BE SHIFTED ON NEWLY CONSTRUCTED PAVEMENT.
2. TEMPORARY CONCRETE BARRIER TO BE REMOVED FROM SITE.
3. CONSTRUCT THIRD NORTHBOUND LANE ON SKOKIE BOULEVARD.

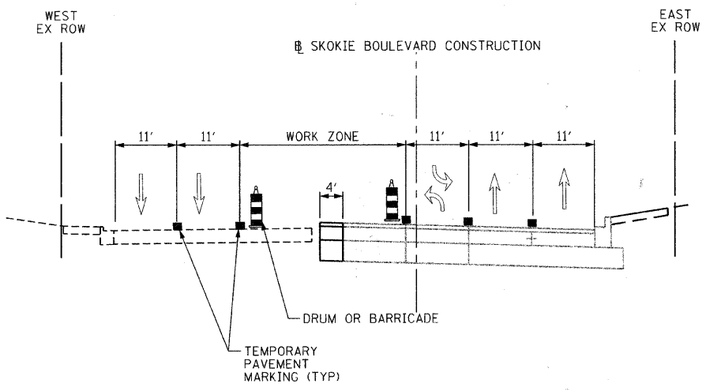
SKOKIE BLVD STAGE 2A TYPICAL SECTION



STAGE 2B

1. SETUP TRAFFIC CONTROL STRIPING, SIGNS AND BARRICADES FOR SKOKIE BOULEVARD WITH FIVE LANES OF TRAFFIC (TWO THRU LANES IN EACH DIRECTION AND ONE TURN LANE). TWO NORTH-BOUND LANES TO BE SHIFTED ON NEWLY CONSTRUCTED PAVEMENT.
2. CONSTRUCT TURN LANES ON SKOKIE BOULEVARD.

SKOKIE BLVD STAGE 2B TYPICAL SECTION



STAGE 2C

1. SETUP TRAFFIC CONTROL STRIPING, SIGNS AND BARRICADES FOR SKOKIE BOULEVARD WITH FIVE LANES OF TRAFFIC (TWO THRU LANES IN EACH DIRECTION AND ONE TURN LANE). TWO NORTH-BOUND LANES AND TURN LANE TO BE SHIFTED ON NEWLY CONSTRUCTED PAVEMENT.
2. CONSTRUCT TURN LANES ON SKOKIE BOULEVARD.

SKOKIE BLVD STAGE 2C TYPICAL SECTION

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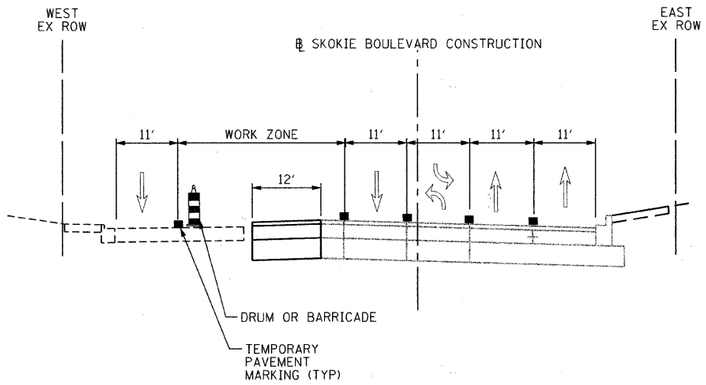
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLANS – TYPICAL SECTIONS

SCALE: NTS | SHEET NO. 1 OF 21 SHEETS | STA. | TO STA.

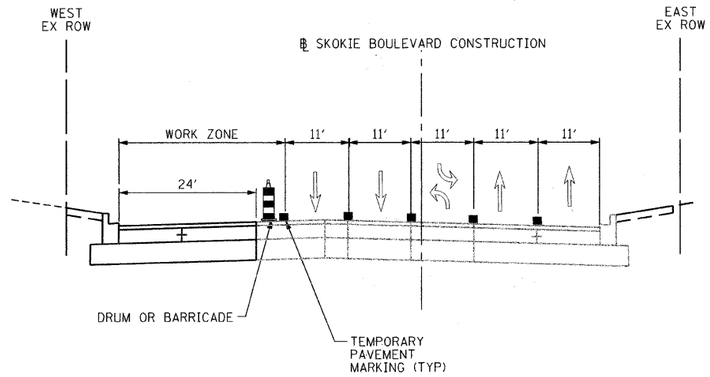
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	22
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



STAGE 2D

1. SETUP TRAFFIC CONTROL STRIPING, SIGNS AND BARRICADES FOR SKOKIE BOULEVARD WITH FIVE LANES OF TRAFFIC (TWO THRU LANES IN EACH DIRECTION AND ONE TURN LANE). TWO NORTH-BOUND LANES, TURN LANE AND ONE SOUTHBOUND LANE TO BE SHIFTED ON NEWLY CONSTRUCTED PAVEMENT.
2. CONSTRUCT TURN LANES AND SOUTHBOUND LANE ON SKOKIE BOULEVARD.

SKOKIE BLVD STAGE 2D TYPICAL SECTION



SKOKIE BLVD STAGE 3A TYPICAL SECTION

PRE-STAGE 3A

1. SETUP TRAFFIC CONTROL STRIPING, SIGNS AND BARRICADES FOR SKOKIE BOULEVARD WITH FIVE LANES OF TRAFFIC (TWO THRU LANES IN EACH DIRECTION AND ONE TURN LANE). ALL LANES TO BE SHIFTED ON NEWLY CONSTRUCTED PAVEMENT.
2. CONSTRUCT WATER MAIN AND PATCH PAVEMENT STATION 120+50 TO 126+10 AS SHOWN ON ROADWAY PLAN.
3. SOUTHBOUND TRAFFIC SHALL BE REDUCED TO ONE LANE IN THIS SECTION UNTIL PROPOSED WATER MAIN AND PAVEMENT ARE COMPLETE BETWEEN STATION 120+50 AND 126+10. CONSTRUCTION BEYOND THESE LIMITS SHALL NOT CONTINUE UNTIL 2 SOUTHBOUND LANES HAVE BEEN RE-ESTABLISHED AS SHOWN IN STAGE 3A.

STAGE 3A

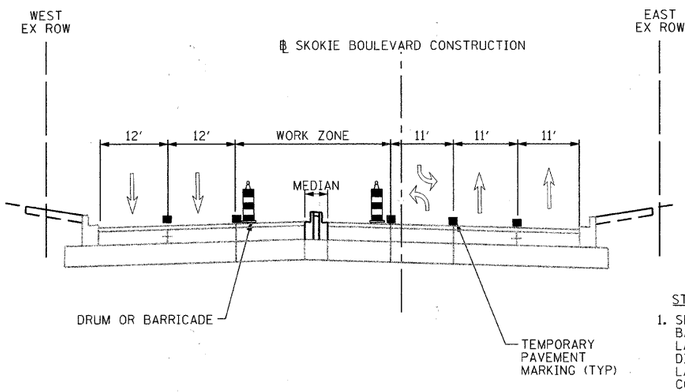
1. CONSTRUCT REMAINDER OF WATER MAIN AND TWO OUTER SOUTHBOUND LANES ON SKOKIE BOULEVARD.
2. SOUTHBOUND TRAFFIC SHALL BE REDUCED TO ONE LANE NORTH OF OLD ORCHARD ROAD TO CONSTRUCT WATER MAIN BETWEEN OLD ORCHARD ROAD AND CENTRAL STREET.

STAGE 3B-3D

1. CONSTRUCT SECTIONS OF THE SKOKIE BOULEVARD AND OLD ORCHARD ROAD INTERSECTION.
2. SETUP TRAFFIC CONFIGURATIONS AS SHOWN ON TRAFFIC CONTROL PLANS.

STAGE 4A-4E

1. CONSTRUCT SECTIONS OF THE SKOKIE BOULEVARD AND OLD ORCHARD ROAD INTERSECTION.
2. SETUP TRAFFIC CONFIGURATIONS AS SHOWN ON TRAFFIC CONTROL PLANS.



STAGE 5

1. SETUP TRAFFIC CONTROL STRIPING, SIGNS AND BARRICADES FOR SKOKIE BOULEVARD WITH FIVE LANES OF TRAFFIC (TWO THRU LANES IN EACH DIRECTION AND ONE TURN LANE). TWO SOUTHBOUND LANES TO BE SHIFTED ON WEST SIDE ON NEWLY CONSTRUCTED PAVEMENT.
2. CONSTRUCT MEDIANS ON SKOKIE BOULEVARD.

SKOKIE BLVD STAGE 5 TYPICAL SECTION

GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS, STATE STANDARDS, STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
3. TYPE II BARRICADES SHALL BE EQUIPPED WITH MONODIRECTIONAL STEADY BURN LIGHTS. WHEN SEPARATING OPPOSING LANES OF TRAFFIC, DELINEATORS AND BARRICADES SHALL BE PLACED AT 25' INTERVALS AND AT 12.5' INTERVALS WITHIN TAPER AND CURVE SECTIONS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WHEN SEPARATING TRAFFIC FROM CONSTRUCTION, THIS SPACING MAY BE DOUBLED. BARRICADES, 2' IN WIDTH SHALL BE UTILIZED DURING ALL STAGES OF TRAFFIC CONTROL. DIRECTION INDICATOR BARRICADES SHALL BE USED AT ALL TAPERS, SHIFTS AND LANE DROPS.
4. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL OR WORK ZONE PAVEMENT MARKING REMOVAL.
5. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER 7 DAYS SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES FOR PLACEMENT AND TWO REPLACEMENTS HAVE BEEN PROVIDED.
6. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS SHALL ALSO BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING DRAINAGE OF THE ROADWAY DURING ALL STAGES OF CONSTRUCTION. THE COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND POTECTION (SPECIAL).
8. THE PERMANENT TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED BY THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE INDICATED IN THE PLANS OR SPECIAL PROVISIONS.
9. ALL TRAFFIC CONTROL WARNING SIGNS AND ASSOCIATED SIGNING MOUNTED WITH THE WARNING SIGNS SHALL HAVE BLACK LEGENDS AND BORDERS ON FLOURESCENT ORANGE REFLECTIVE SHEETING.
10. ALL CONSTRUCTION SIGNS, BARRICADES, AND OTHER DEVICES REQUIRED TO CONTROL TRAFFIC SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR.
11. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3 INCH X 6 INCH DELINEATOR INSTALLED.
12. TEMPORARY LANE CLOSURES FOR ANY REASON SHALL BE RESTRICTED TO THE WEEKDAY HOURS OF 9:00 AM TO 3:00 PM OR WEEKENDS IF APPROVED BY THE ENGINEER 48 HOURS IN ADVANCE.
13. ALL LANES SHALL BE OPEN TO TRAFFIC BY SATURDAY, NOVEMBER 17TH, 2012 AND NOT CLOSED AGAIN UNTIL MONDAY, JANUARY 7TH, 2013.
14. TRAFFIC CONTROL SHEETS DO NOT SHOW ALL THE SIGNS REQUIRED FOR LANE CLOSURES. REFER TO THE APPROPRIATE HIGHWAY STANDARDS FOR ADDITIONAL SIGNS TO BE PLACED.

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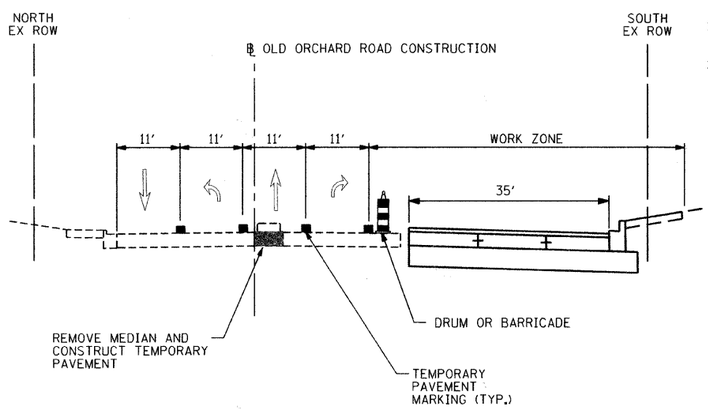
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLANS – TYPICAL SECTIONS

SCALE: NTS | SHEET NO. 2 OF 21 SHEETS | STA. | TO STA.

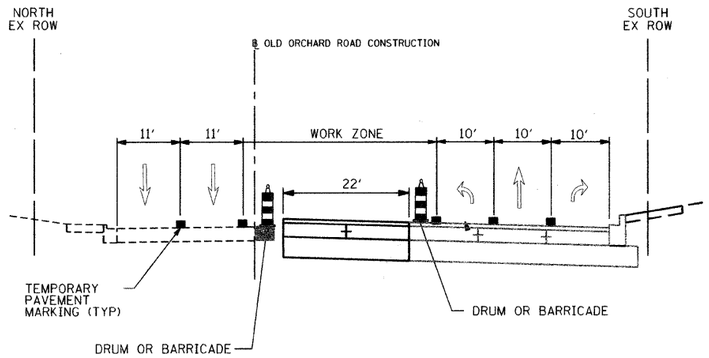
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	23
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



STAGE 1A

1. TRAFFIC TO REMAIN ON EXISTING PAVEMENT AS SETUP IN PRE-STAGE 1A.
2. CONSTRUCT THREE OUTSIDE EASTBOUND LANES OF OLD ORCHARD ROAD.

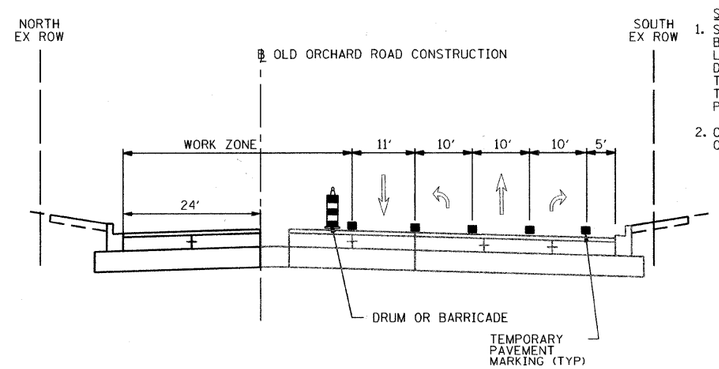
OLD ORCHARD ROAD STAGE 1A TYPICAL SECTION



STAGE 1B

1. SETUP TRAFFIC CONTROL STRIPING, SIGNS AND BARRICADES FOR OLD ORCHARD ROAD WITH FIVE LANES OF TRAFFIC (TWO THRU LANES IN THE WESTBOUND DIRECTION, ONE THRU LANE , ONE LEFT TURN LANE AND ONE RIGHT TURN LANE IN THE EASTBOUND DIRECTION), ONE LEFT TURN EASTBOUND LANE, ONE THRU EASTBOUND LANE, AND RIGHT TURN EASTBOUND LANE TO BE SHIFTED ON NEWLY CONSTRUCTED PAVEMENT.
2. CONSTRUCT TWO MIDDLE LANES ON OLD ORCHARD ROAD.

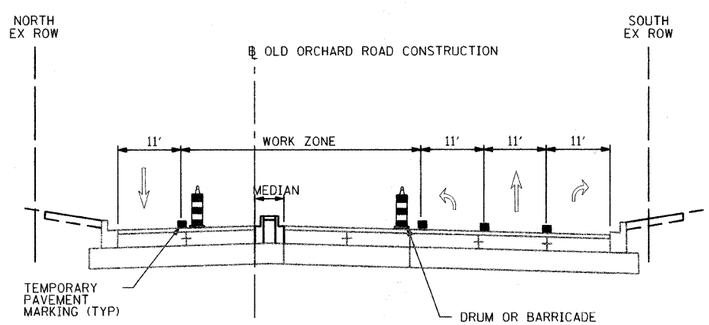
OLD ORCHARD ROAD STAGE 1B TYPICAL SECTION



STAGE 1C

1. SETUP TRAFFIC CONTROL STRIPING, SIGNS AND BARRICADES FOR OLD ORCHARD ROAD WITH FOUR LANES OF TRAFFIC (ONE THRU LANE IN EACH DIRECTION, ONE LEFT TURN LANE AND ONE RIGHT TURN LANE IN EASTBOUND DIRECTION). ALL LANES TO BE SHIFTED ON NEWLY CONSTRUCTED PAVEMENT.
2. CONSTRUCT TWO WESTBOUND LANES ON OLD ORCHARD ROAD.

OLD ORCHARD ROAD STAGE 1C TYPICAL SECTION



STAGE 5

1. SETUP TRAFFIC CONTROL STRIPING, SIGNS AND BARRICADES FOR OLD ORCHARD ROAD WITH FOUR LANES OF TRAFFIC (ONE THRU LANE IN EACH DIRECTION, ONE LEFT TURN LANE AND ONE RIGHT TURN LANE IN EASTBOUND DIRECTION), ONE WESTBOUND LANE TO BE SHIFTED TO NORTH SIDE ON NEWLY CONSTRUCTED PAVEMENT.
2. CONSTRUCT MEDIANS ON OLD ORCHARD ROAD.

OLD ORCHARD ROAD STAGE 5 TYPICAL SECTION

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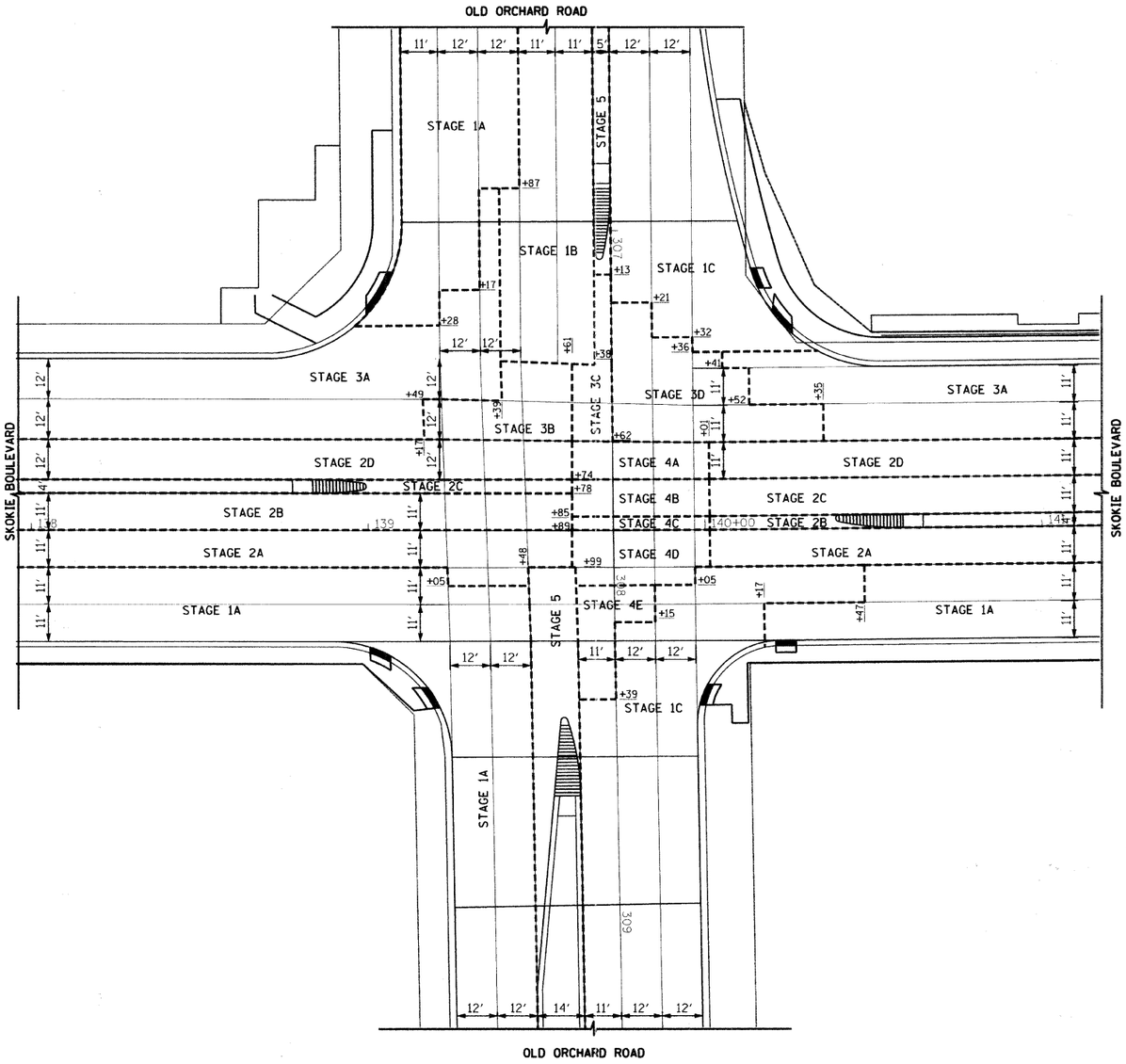
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLANS – TYPICAL SECTIONS

SCALE: NTS | SHEET NO. 3 OF 21 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	24
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



N

20 0 20 40

HORIZONTAL SCALE IN FEET

LEGEND

LANE LINES

PAVEMENT CONSTRUCTION STAGE BOUNDARIES

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FILE NAME = g:\ch28\0845\road\sheets\0845-MT-384-ENO.sht	USER NAME = CEComin	DESIGNED FA	REVISED -
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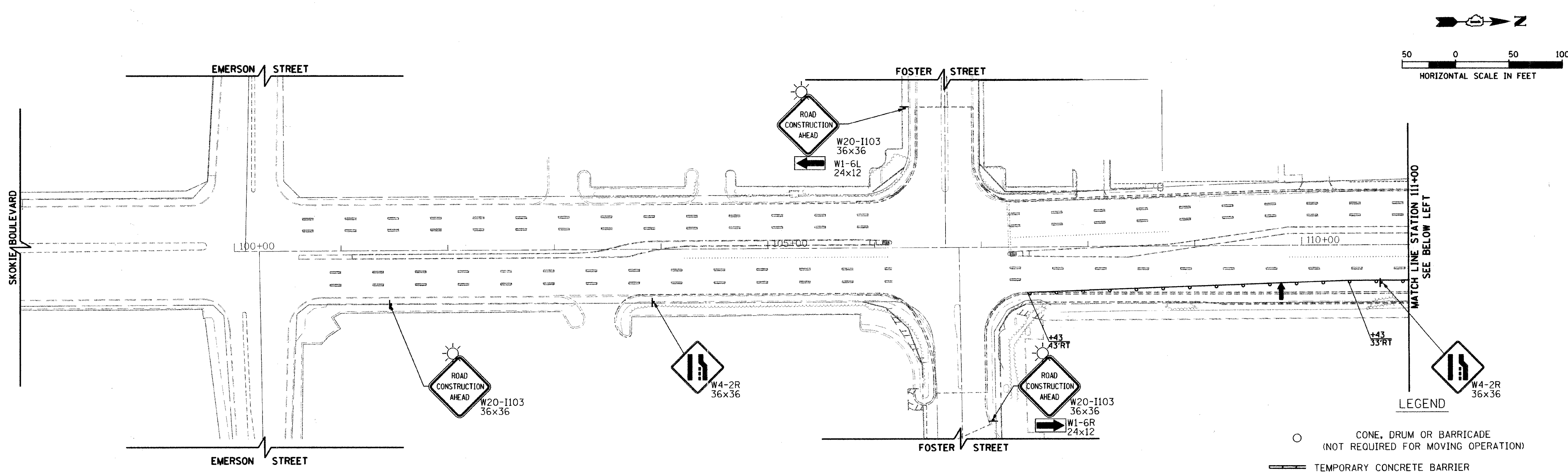
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLANS – STAGING BOUNDARIES

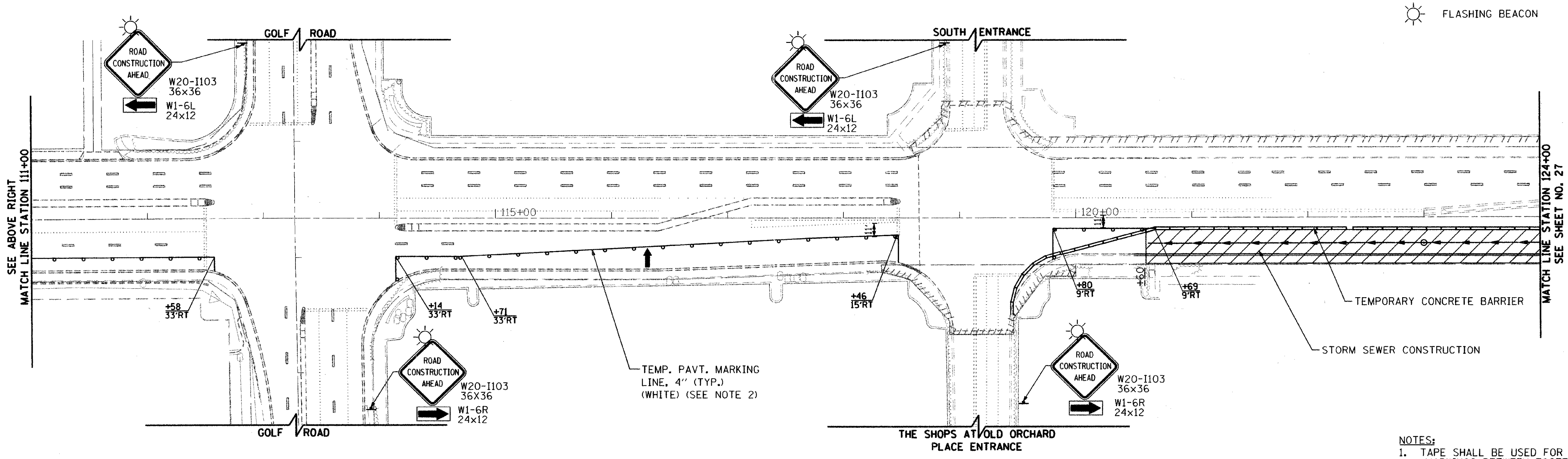
SCALE: 1"=20' | SHEET NO. 4 OF 21 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	25
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



LEGEND

- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON



NOTES:

1. TAPE SHALL BE USED FOR THE TEMPORARY PAVEMENT MARKINGS BETWEEN FOSTER STREET AND THE SOUTH MALL ENTRANCE.

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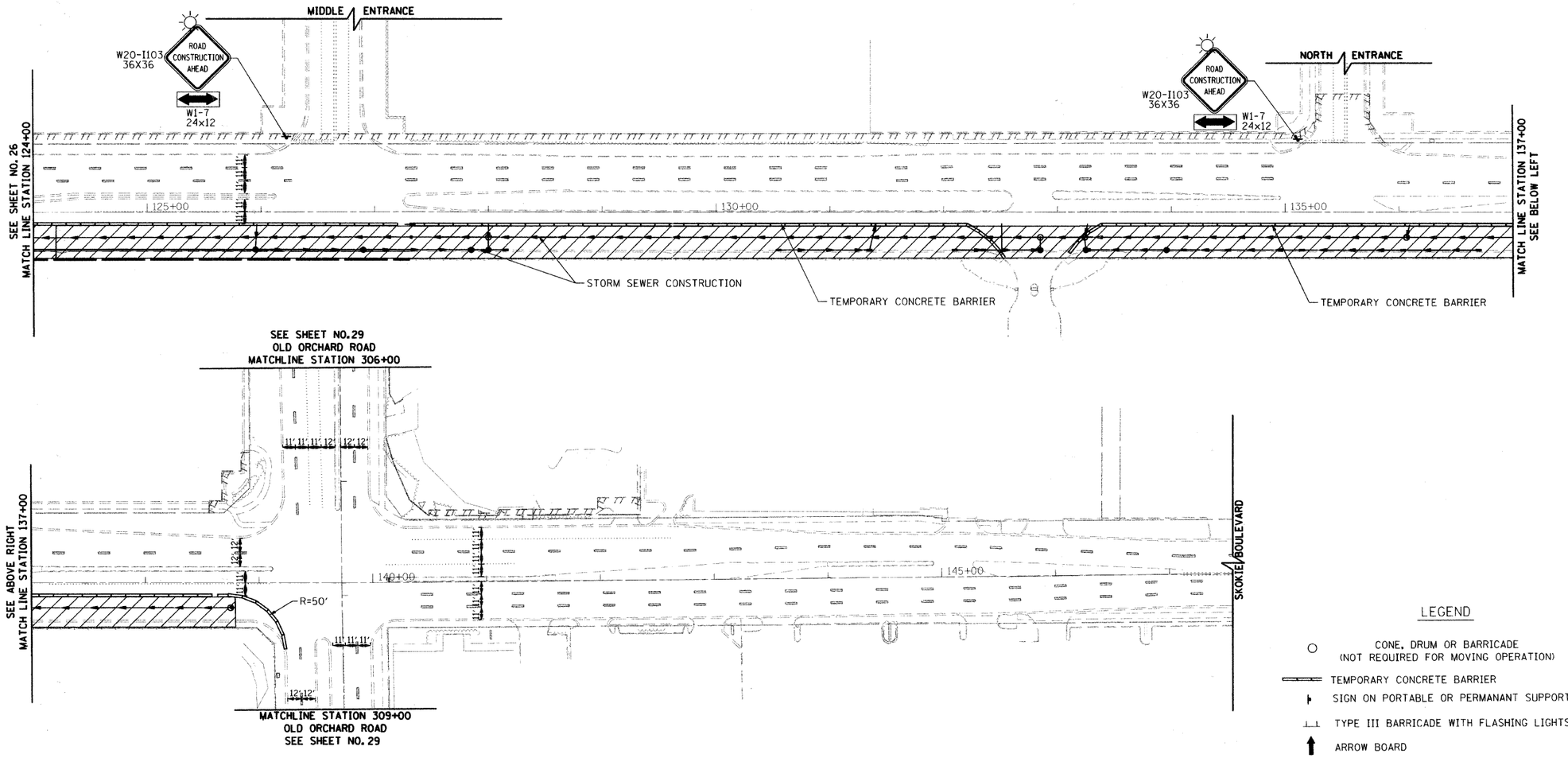
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (PRE-STAGE)

SCALE: 1"=50' | SHEET NO. 5 OF 21 SHEETS | STA. 107+00 TO STA. 125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	26
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT			



50 0 50 100
HORIZONTAL SCALE IN FEET

LEGEND

- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON

NOTE:
1. TAPE SHALL BE USED FOR THE TEMPORARY PAVEMENT MARKINGS BETWEEN FOSTER STREET AND THE SOUTH MALL ENTRANCE.

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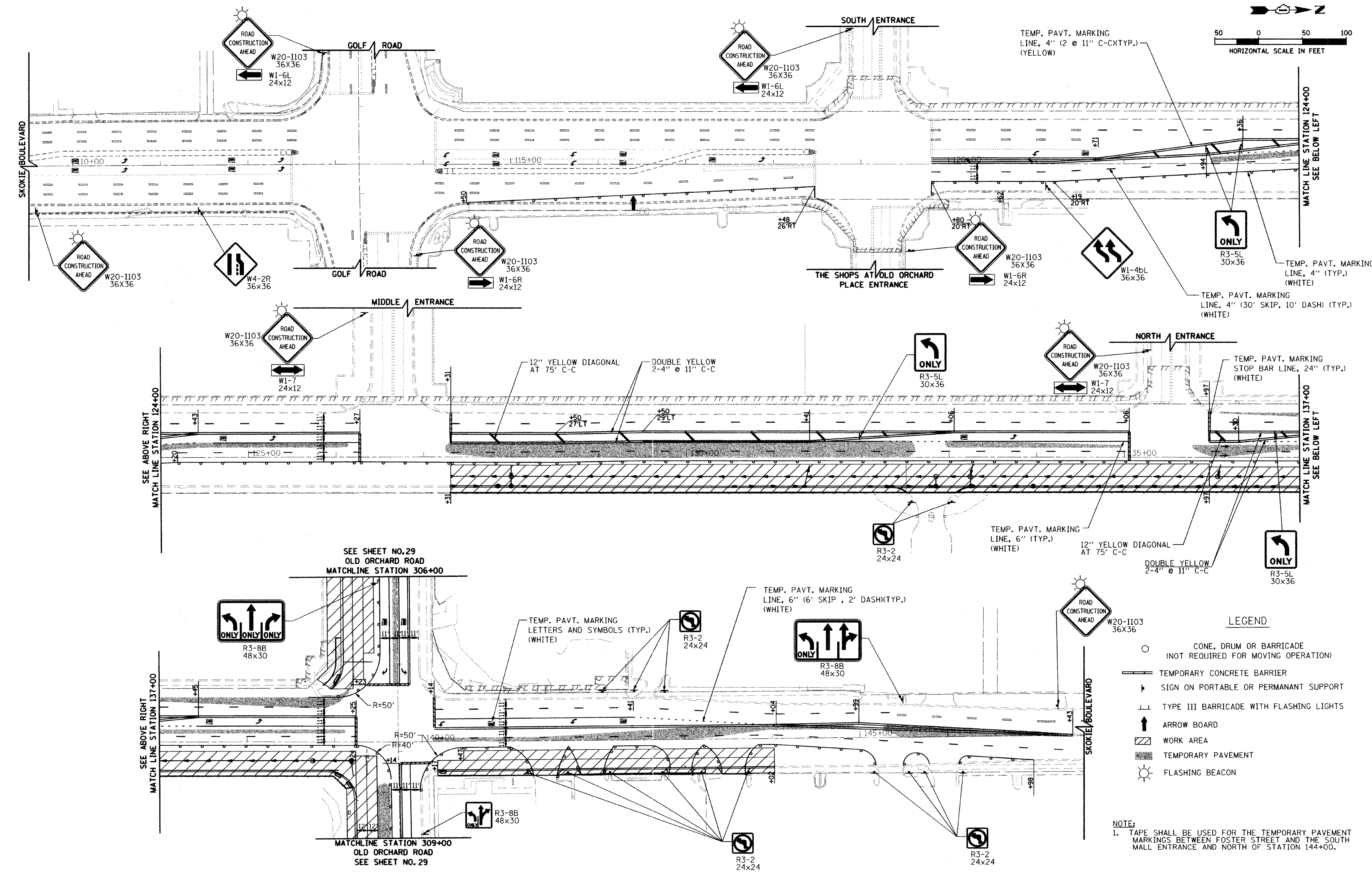
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (PRE-STAGE)

SCALE: 1"=50' | SHEET NO. 6 OF 21 SHEETS | STA. 114+00 TO STA. 147+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	27
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

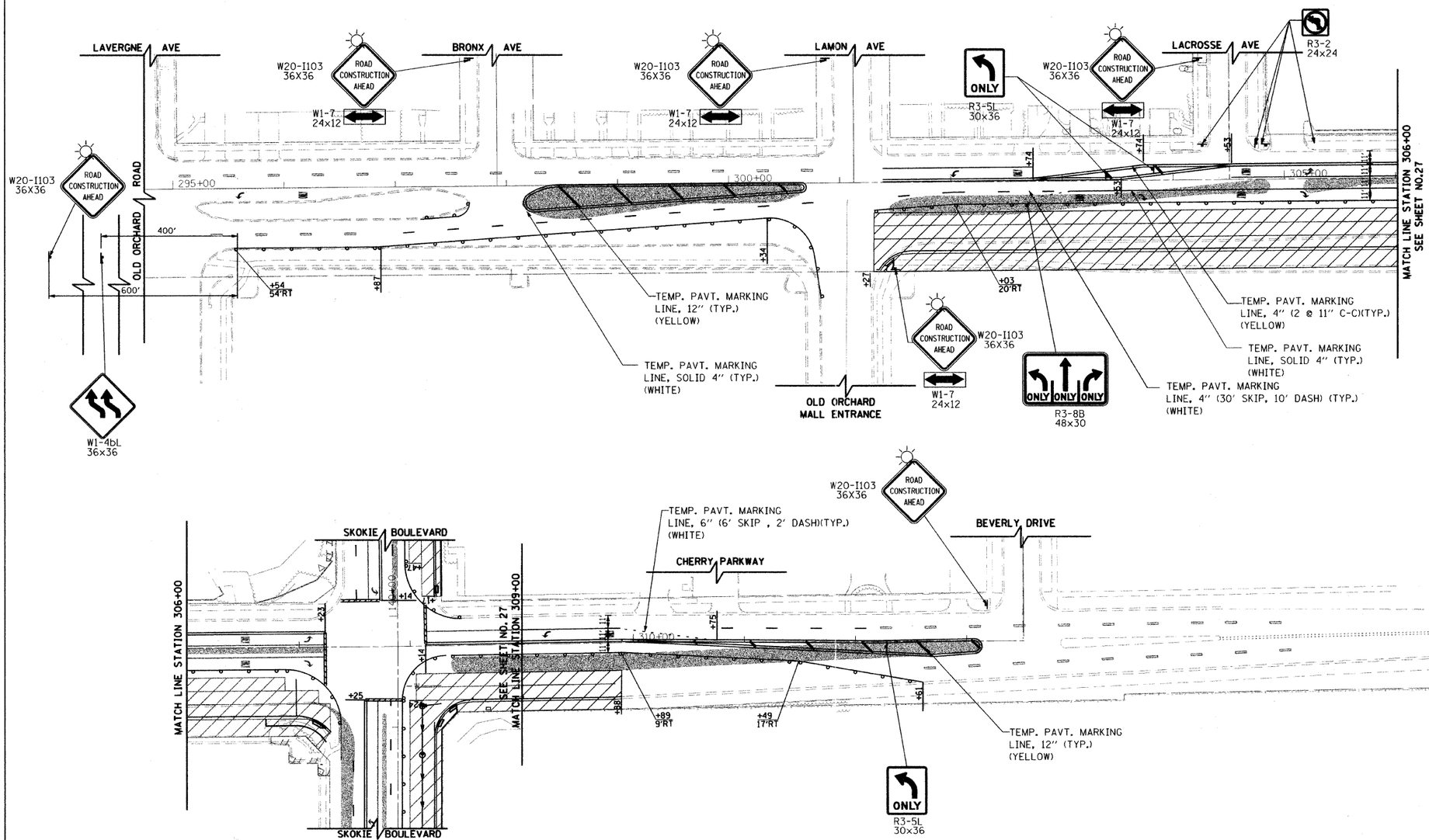
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-1A)

SCALE: 1"=50' | SHEET NO. 7 OF 21 SHEETS | STA. 114+00 TO STA. 147+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	28
		CONTRACT NO. 63566		

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT



N

50 0 50 100
HORIZONTAL SCALE IN FEET

LEGEND

- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON

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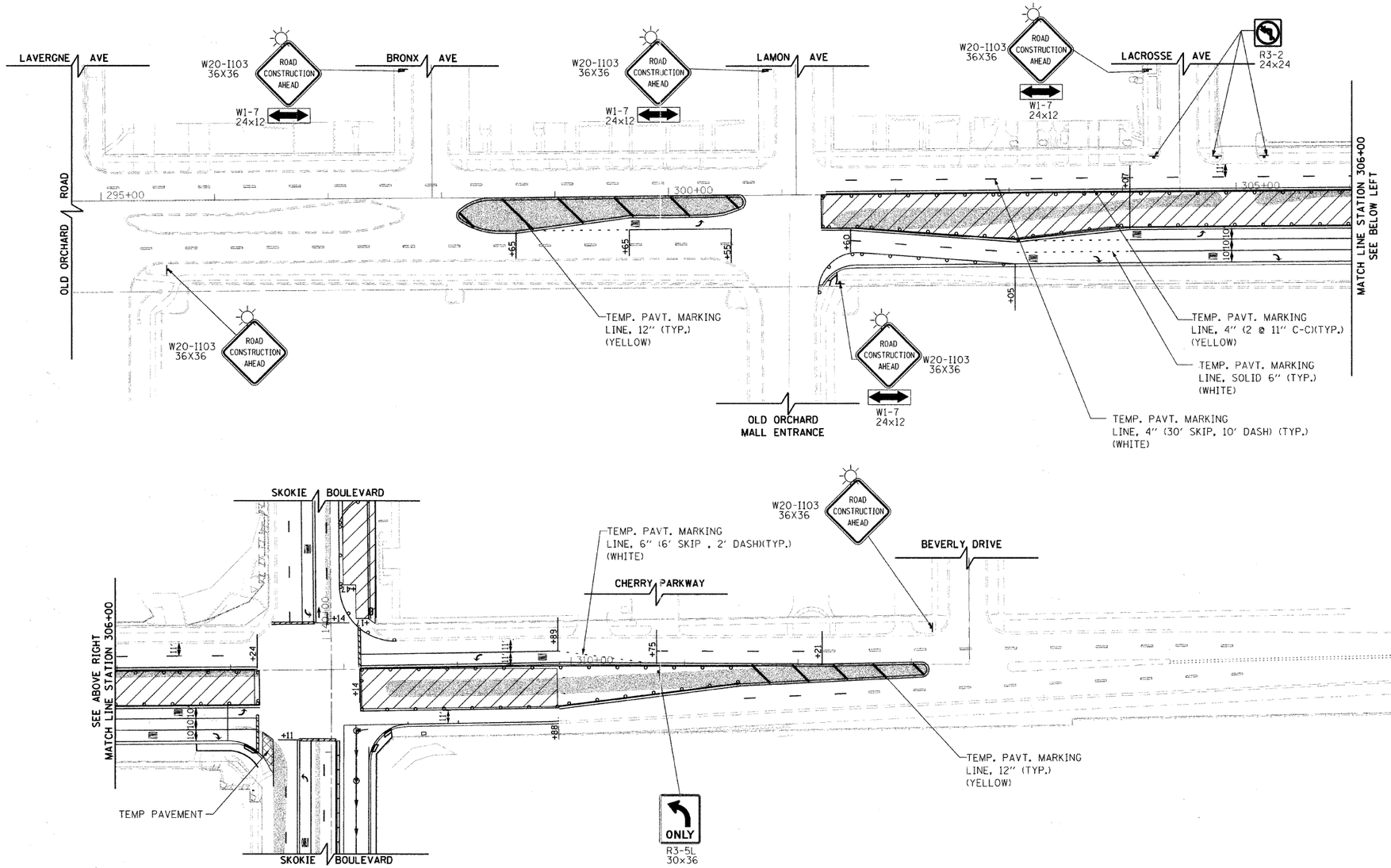
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-1A)

SCALE: 1"=50' | SHEET NO. 8 OF 21 SHEETS | STA. 295+00 | TO STA. 314+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	29
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



LEGEND

- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON

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	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

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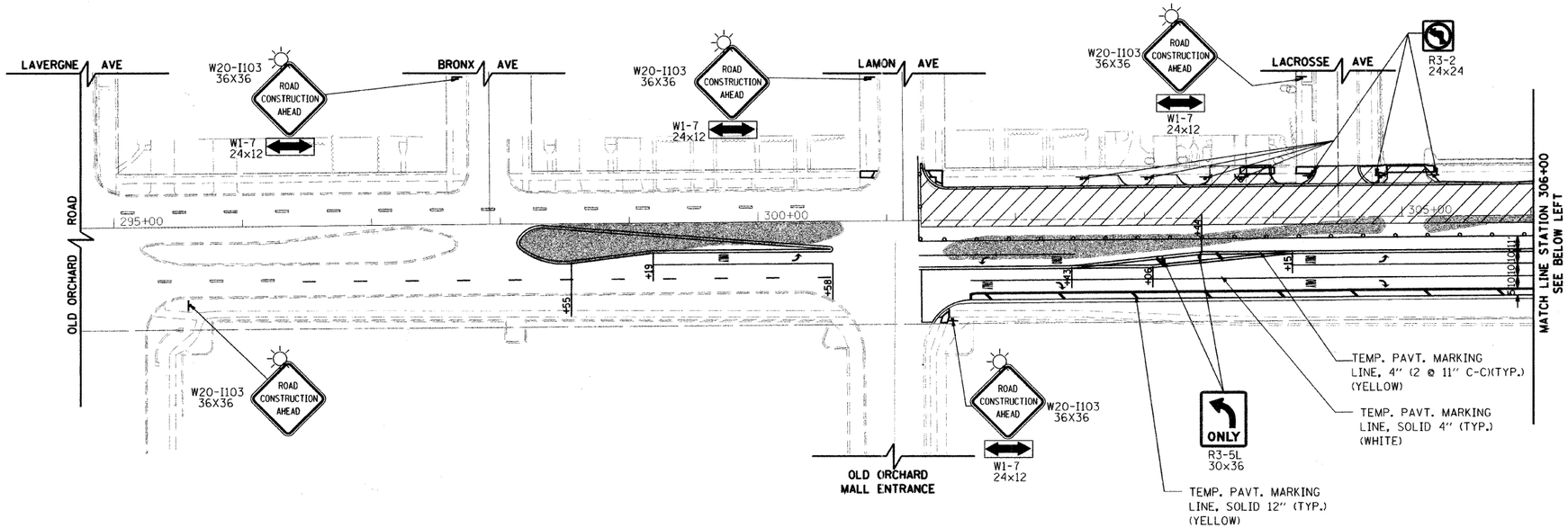
DEPARTMENT OF TRANSPORTATION

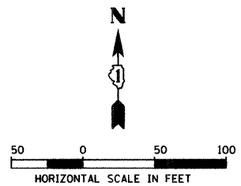
U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-1B)

SCALE: 1"=50' | SHEET NO. 9 OF 21 SHEETS | STA. 295+00 TO STA. 314+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	30
		CONTRACT NO. 63566		

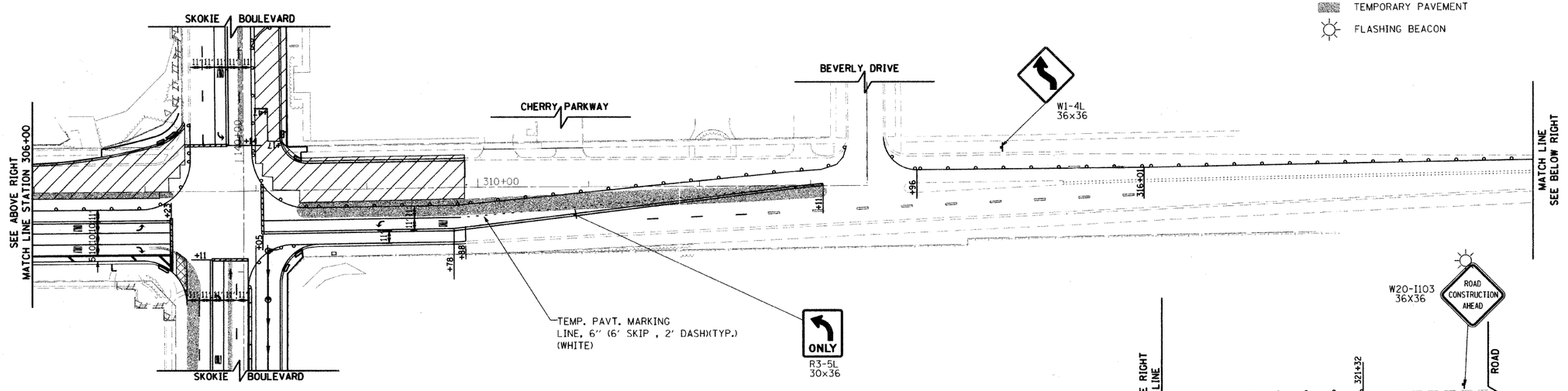
FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT





LEGEND

- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON



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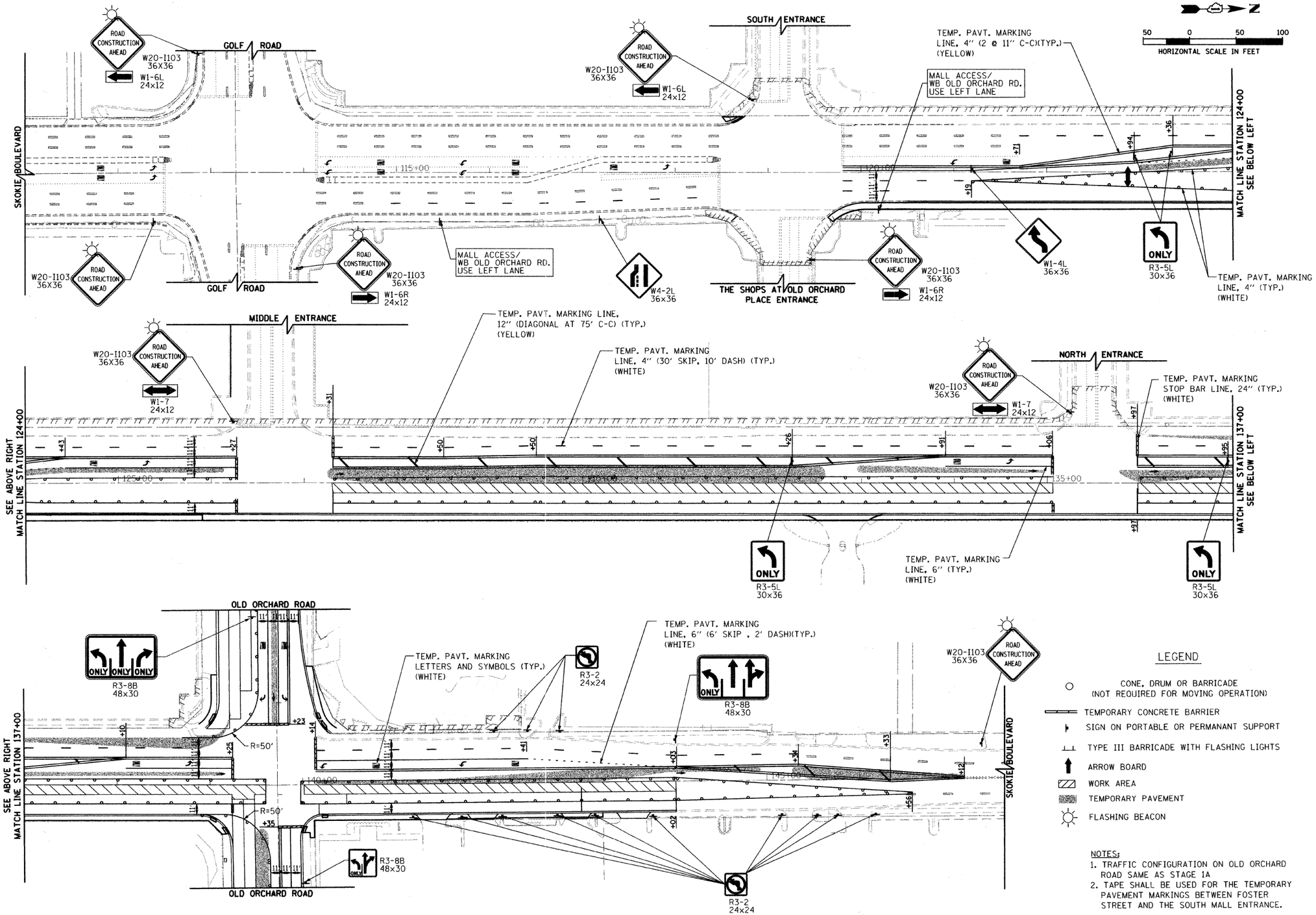
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-1C)

SCALE: 1"=50' | SHEET NO. 10 OF 21 SHEETS | STA. 295+00 TO STA. 314+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	31
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



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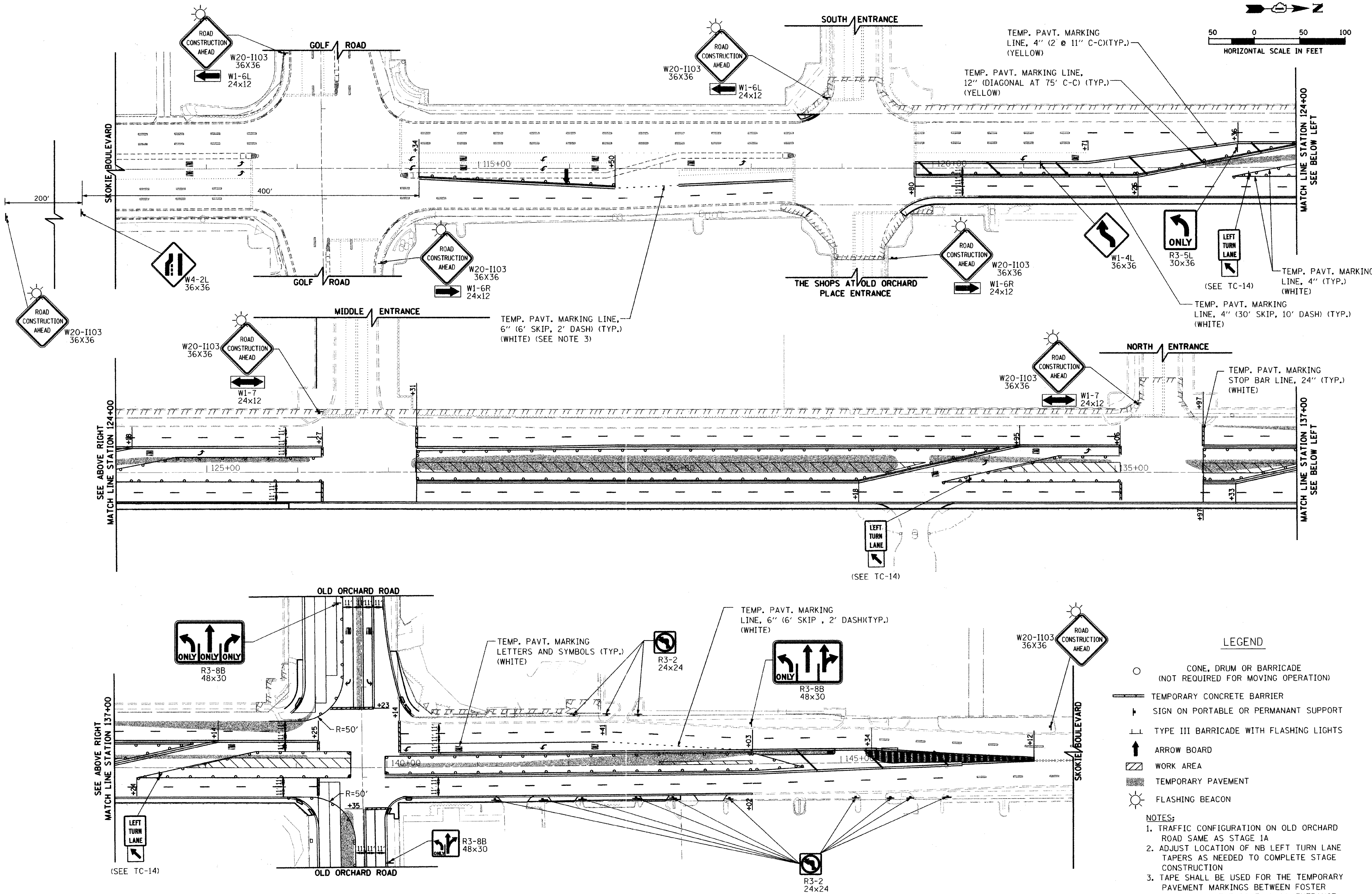
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-2A)

SCALE: 1"=50' | SHEET NO. 11 OF 21 SHEETS | STA. 114+00 | TO STA. 147+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	32
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



LEGEND

- ○ CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON

NOTES:

1. TRAFFIC CONFIGURATION ON OLD ORCHARD ROAD SAME AS STAGE 1A
2. ADJUST LOCATION OF NB LEFT TURN LANE TAPERS AS NEEDED TO COMPLETE STAGE CONSTRUCTION
3. TAPE SHALL BE USED FOR THE TEMPORARY PAVEMENT MARKINGS BETWEEN FOSTER STREET AND THE SOUTH MALL ENTRANCE

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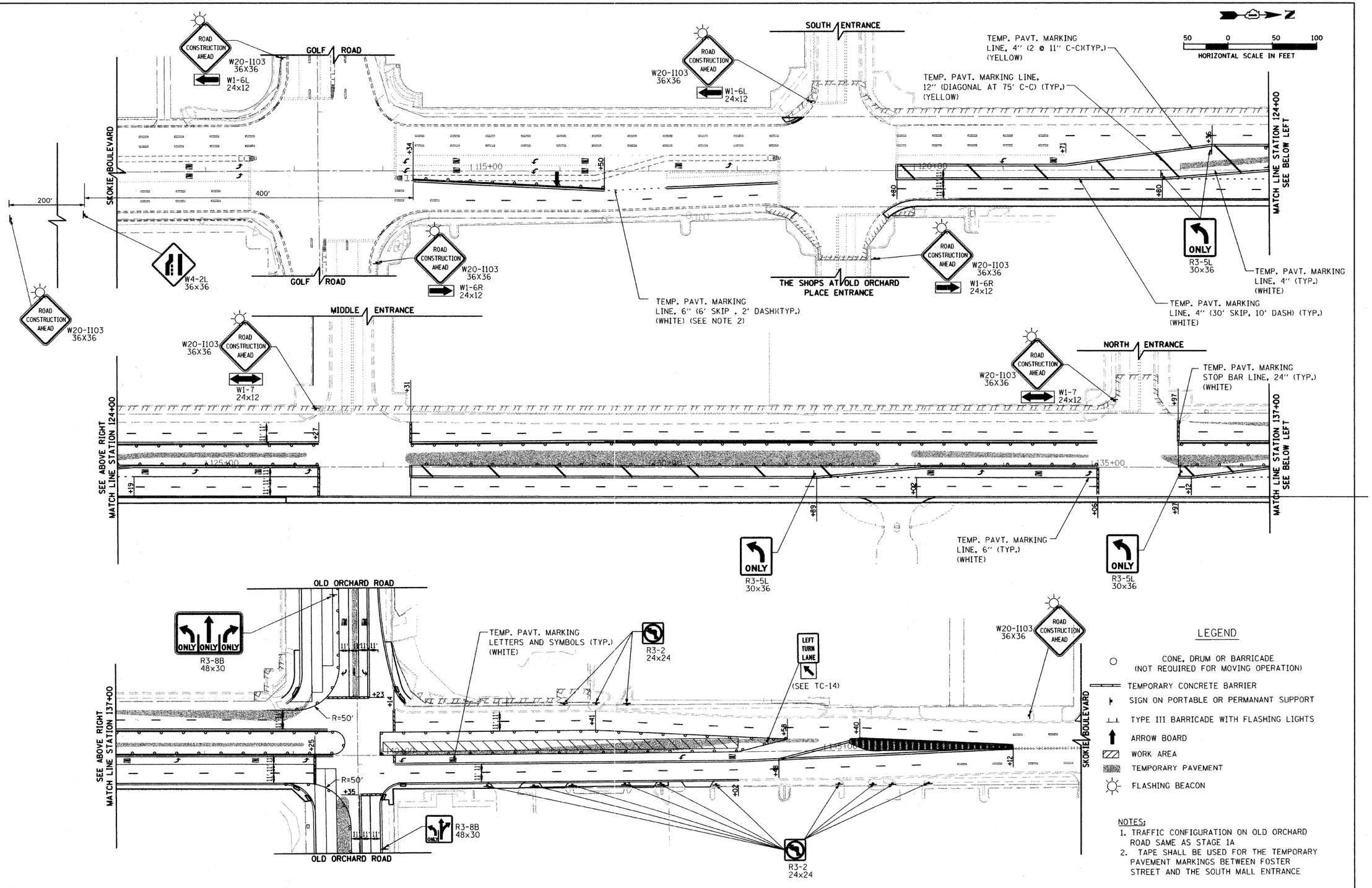
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) SUGGESTED TRAFFIC CONTROL PLAN (STAGE-2B)

SCALE: 1"=50' | SHEET NO. 12 OF 21 SHEETS | STA. 114+00 TO STA. 147+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	33
		CONTRACT NO. 63566		

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT



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FILE NAME = g:\ch80\0045\road\sheets\0045-MT-315-Stage2C.sht	USER NAME = CEComin	DESIGNED FA	REVISED -
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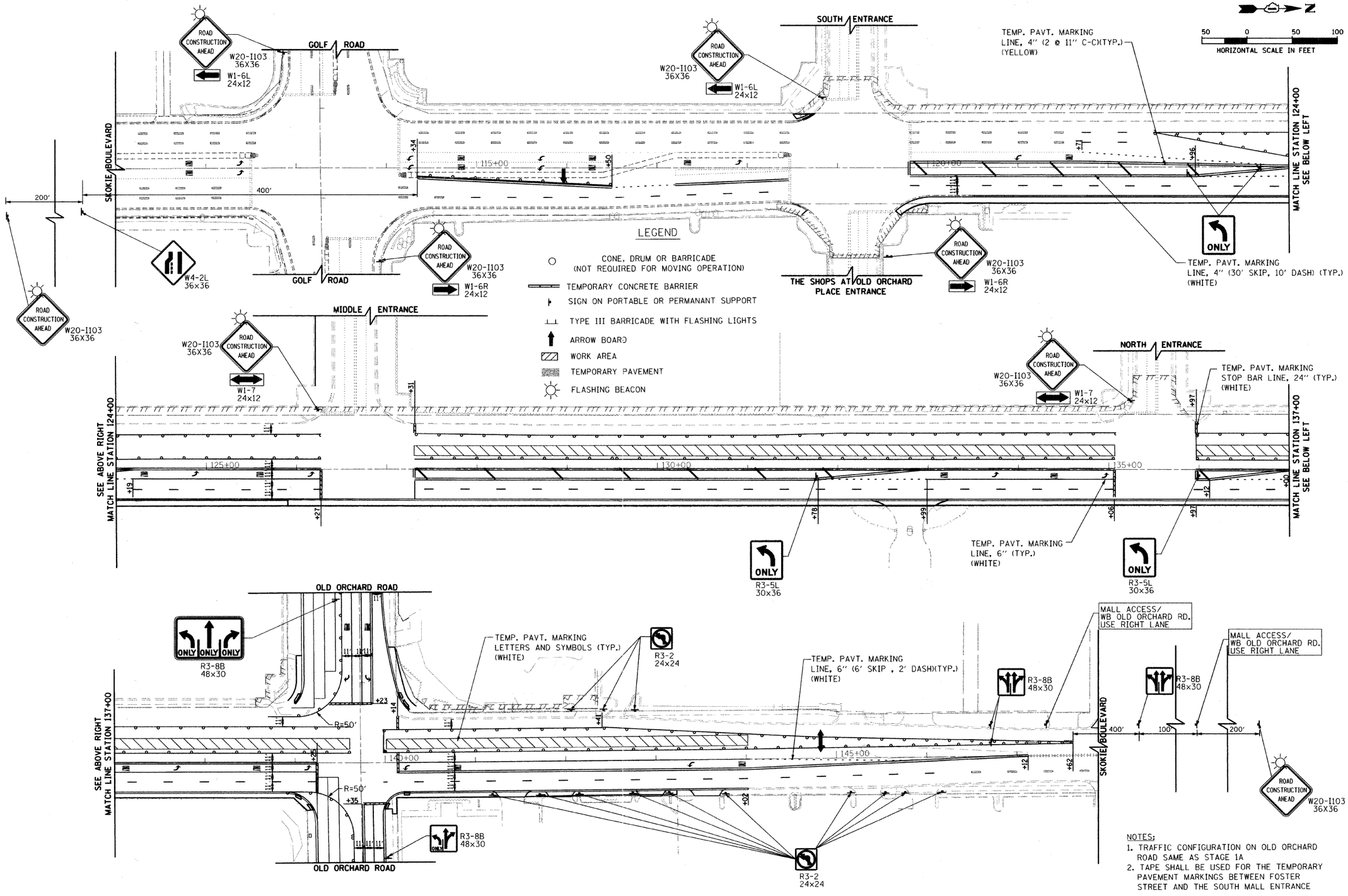
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-2C)

SCALE: 1"=50' | SHEET NO. 13 OF 21 SHEETS | STA. 114+00 | TO STA. 147+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	34
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



NOTES:
1. TRAFFIC CONFIGURATION ON OLD ORCHARD ROAD SAME AS STAGE 1A
2. TAPE SHALL BE USED FOR THE TEMPORARY PAVEMENT MARKINGS BETWEEN FOSTER STREET AND THE SOUTH MALL ENTRANCE

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FILE NAME = g:\ch081\0045\road\sheets\0045-MT-316-Stage2D.sht	USER NAME = CECmun	DESIGNED FA	REVISED -
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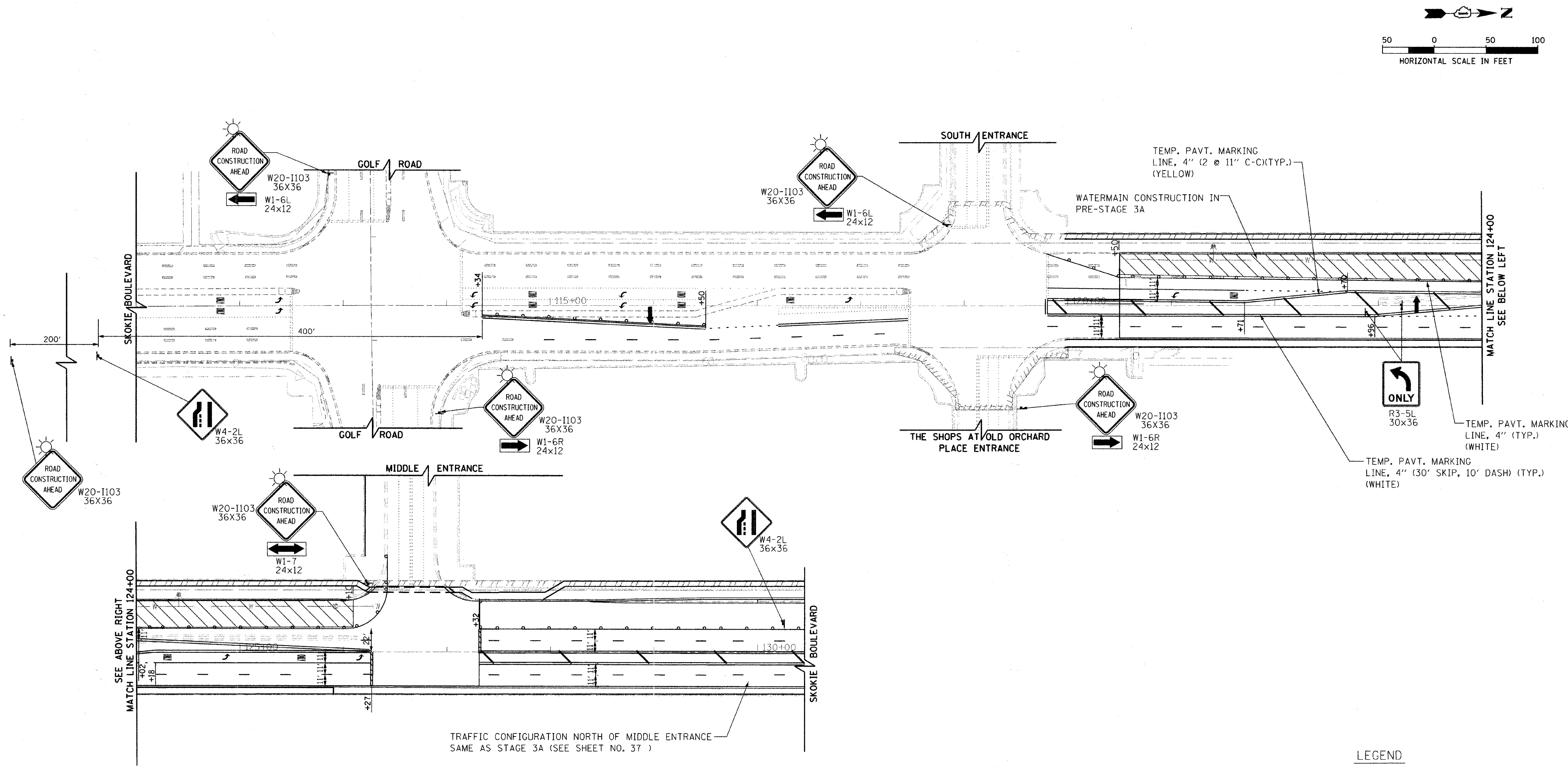
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-2D)

SCALE: 1"=50' | SHEET NO. 14 OF 21 SHEETS | STA. 114+00 | TO STA. 147+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	35
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



LEGEND

- ○ CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON

NOTES:

1. TRAFFIC CONFIGURATION ON OLD ORCHARD ROAD SAME AS STAGE 1C
2. TAPE SHALL BE USED FOR TEMPORARY PAVEMENT MARKINGS BETWEEN FOSTER STREET AND THE SOUTH MALL ENTANCE
3. COMPLETE WATER MAIN, PATCH, AND CURB AND GUTTER BETWEEN SOUTH AND MIDDLE MALL ENTRANCES PRIOR TO REMAINDER OF STAGE 3.

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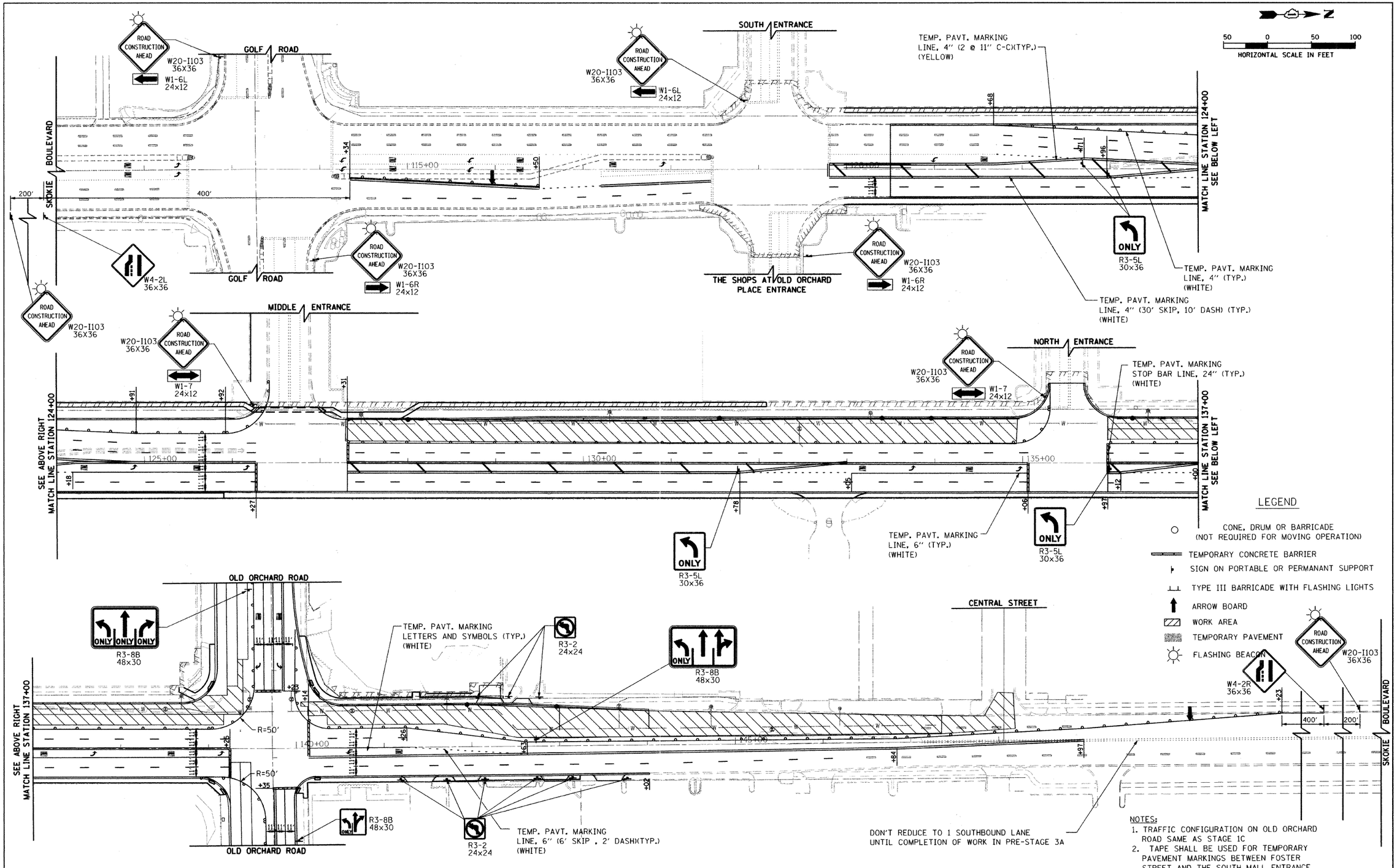
FILE NAME =	USER NAME = CEComin	DESIGNED FA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 41 (SKOKIE BOULEVARD) SUGGESTED TRAFFIC CONTROL PLAN (PRE-STAGE-3A)	F.A.P. RTE. 350	SECTION 00-00243-00-CH	COUNTY COOK	TOTAL SHEETS 142	SHEET NO. 36
		DRAWN FA	REVISED -					CONTRACT NO. 63566		
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -		SCALE: 1"=50' SHEET NO. 15 OF 21 SHEETS STA. 114+00 TO STA. 147+00					
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



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FILE NAME = g:\ch2M\NM45\road\sheets\NM45-MT-338-Stage3A.sht	USER NAME = CEComun	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
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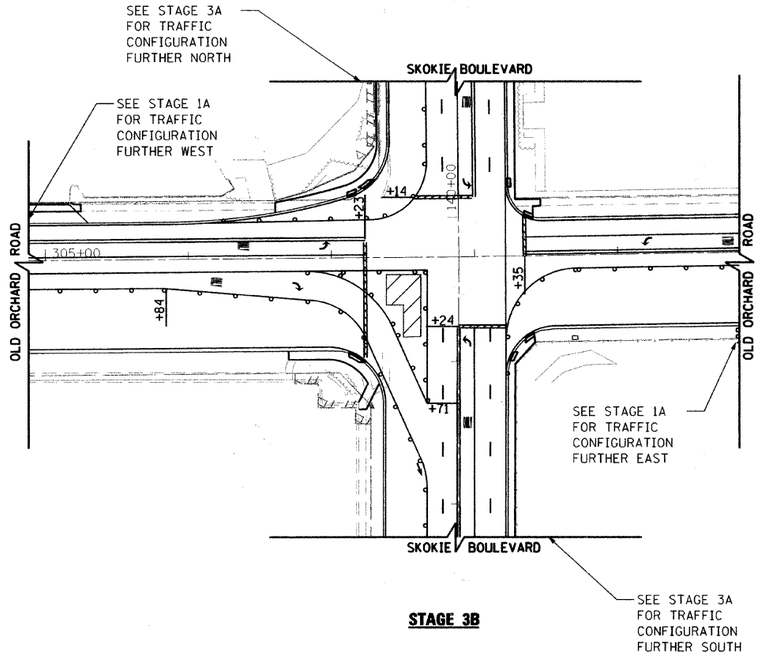
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

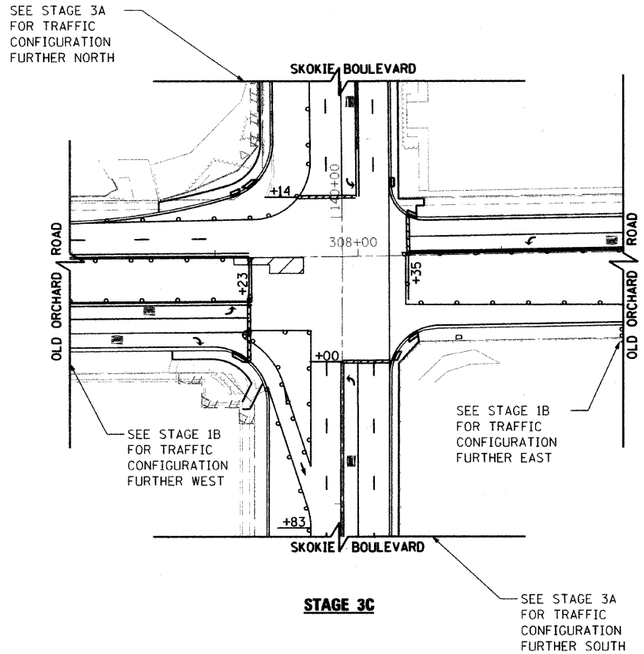
U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-3A)

SCALE: 1"=50' | SHEET NO. 16 OF 21 SHEETS | STA. 114+00 TO STA. 147+00

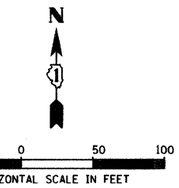
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	37
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

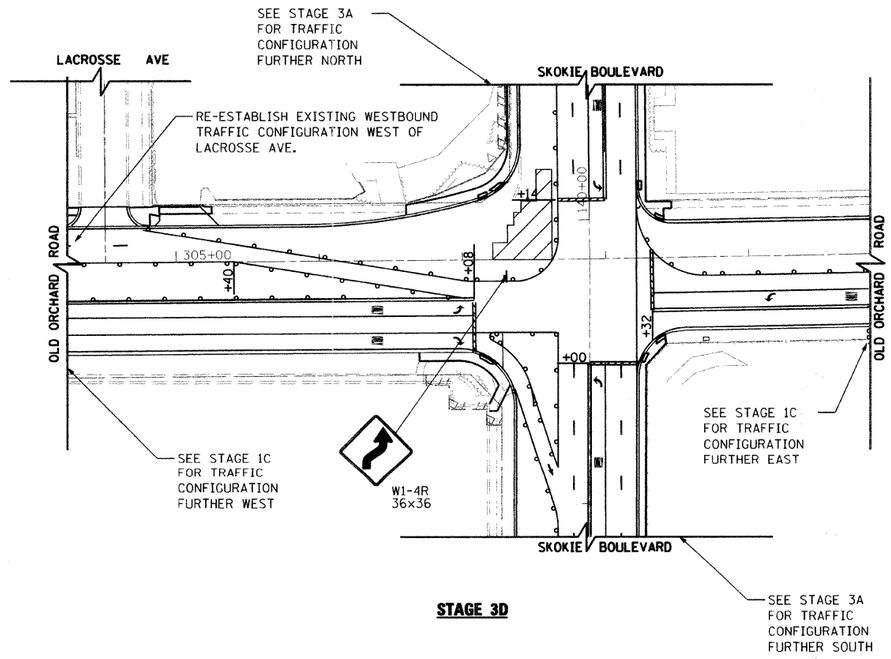


STAGE 3B



STAGE 3C





STAGE 3D

LEGEND

- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON

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FILE NAME = g:\ch08\0045\road\sheets\0045-MT-319-Stage3B.sht	USER NAME = CEComin	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
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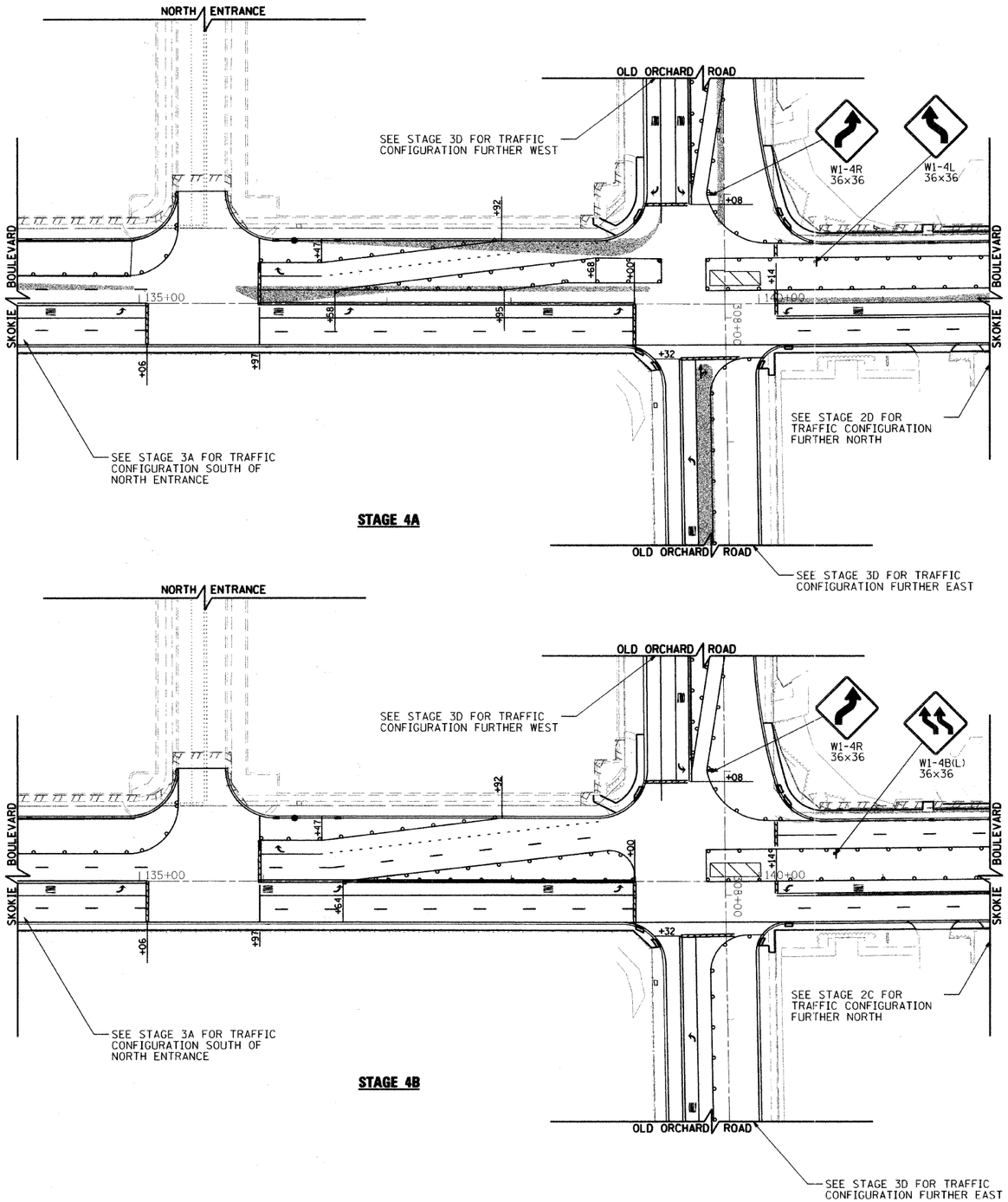
U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-3B, 3C & 3D)

SCALE: 1"=50' | SHEET NO. 17 OF 21 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	38
		CONTRACT NO. 63566		

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT



STAGE 4A

STAGE 4B

N

50 0 50 100
HORIZONTAL SCALE IN FEET

LEGEND

- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON

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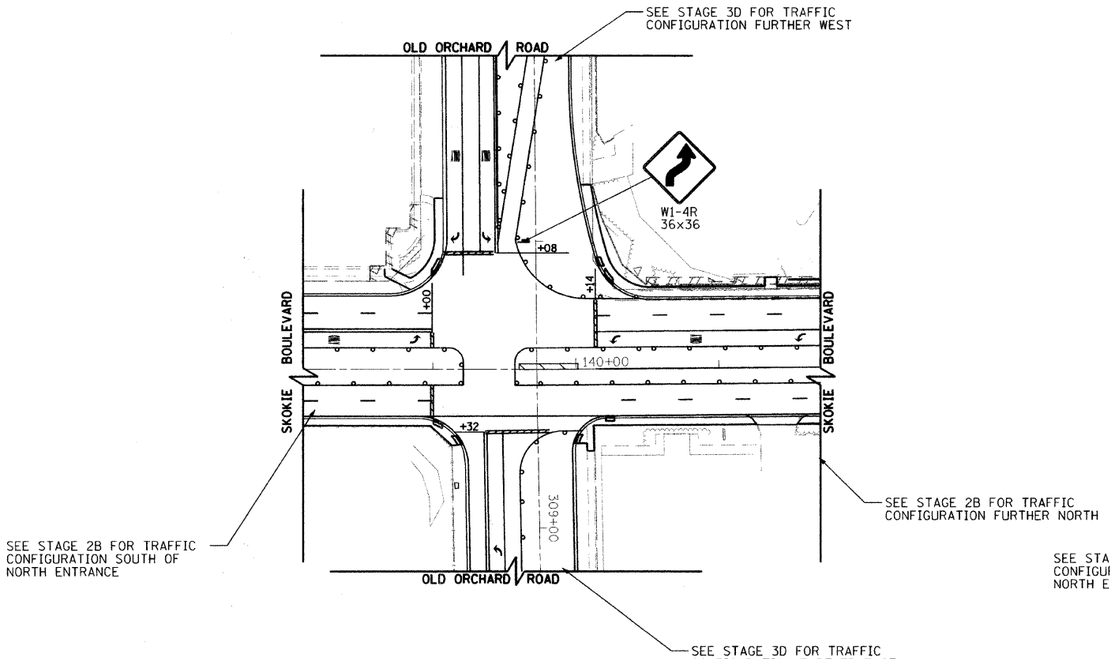
FILE NAME = g:\ch2M\0245\road\sheets\045-NT-322-Stage4A.SHT	USER NAME = CEComin	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

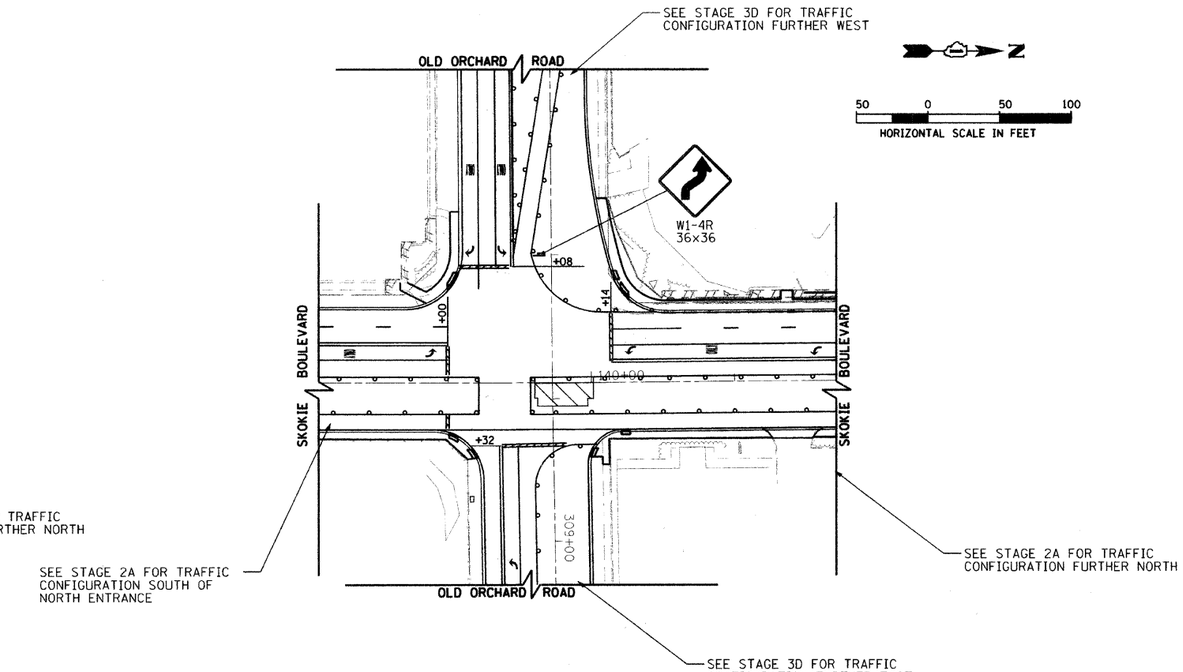
U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-4A & 4B)

SCALE: 1"=50' | SHEET NO. 18 OF 21 SHEETS | STA. | TO STA.

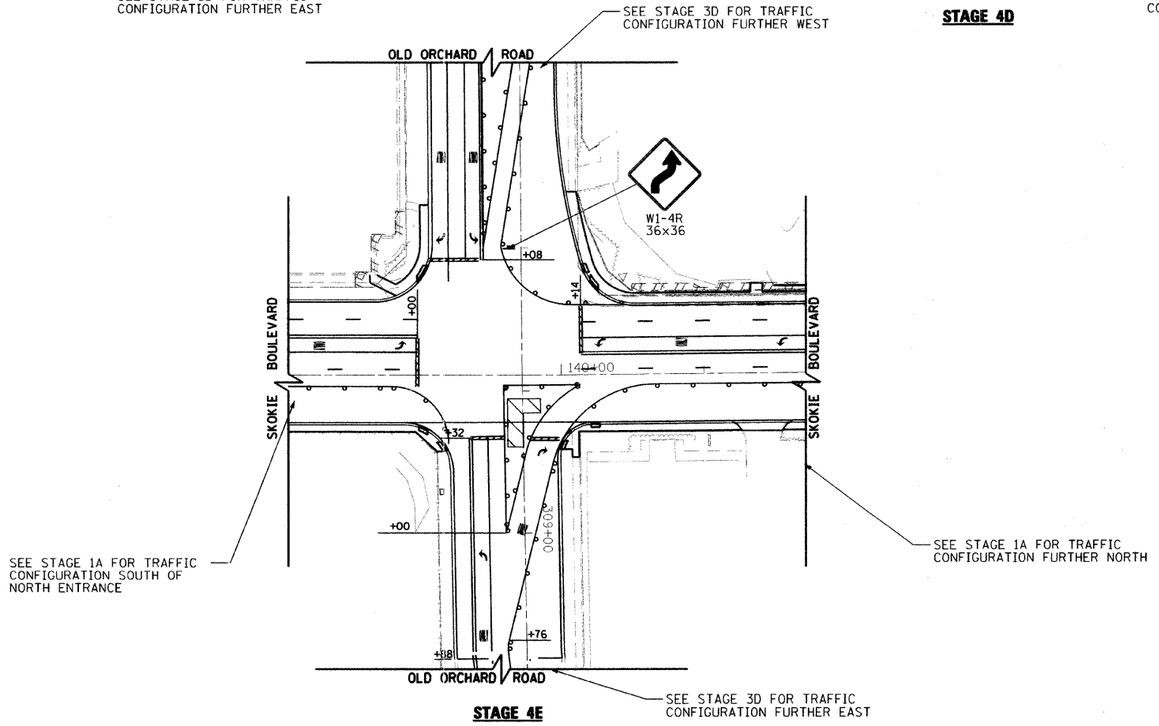
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	39
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



STAGE 4C



STAGE 4D



STAGE 4E

LEGEND

- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATION)
- TEMPORARY CONCRETE BARRIER
- SIGN ON PORTABLE OR PERMANANT SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- WORK AREA
- TEMPORARY PAVEMENT
- FLASHING BEACON

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FILE NAME = g:\ch80\8045\road\sheets\8045-MT-324-Stage4C.SHT	USER NAME = CEComin	DESIGNED FA	REVISED -
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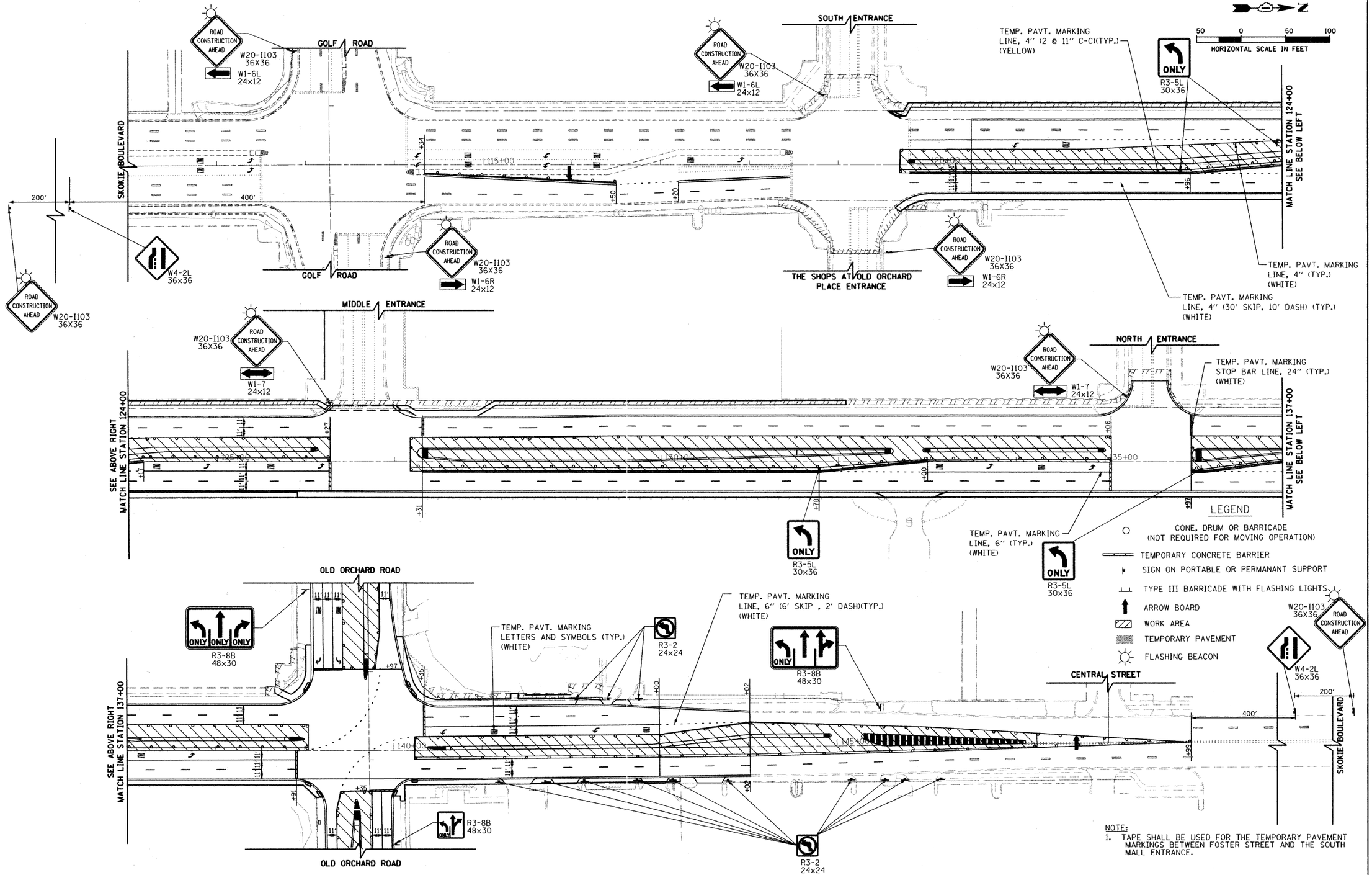
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-4C, 4D & 4E)

SCALE: 1"=50' | SHEET NO. 19 OF 21 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	40
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



NOTE:
1. TAPE SHALL BE USED FOR THE TEMPORARY PAVEMENT MARKINGS BETWEEN FOSTER STREET AND THE SOUTH MALL ENTRANCE.

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FILE NAME = g:\chi88\0045\road\sheets\0045-MT-327-Stage5.sht	USER NAME = CEComm	DESIGNED FA	REVISED -
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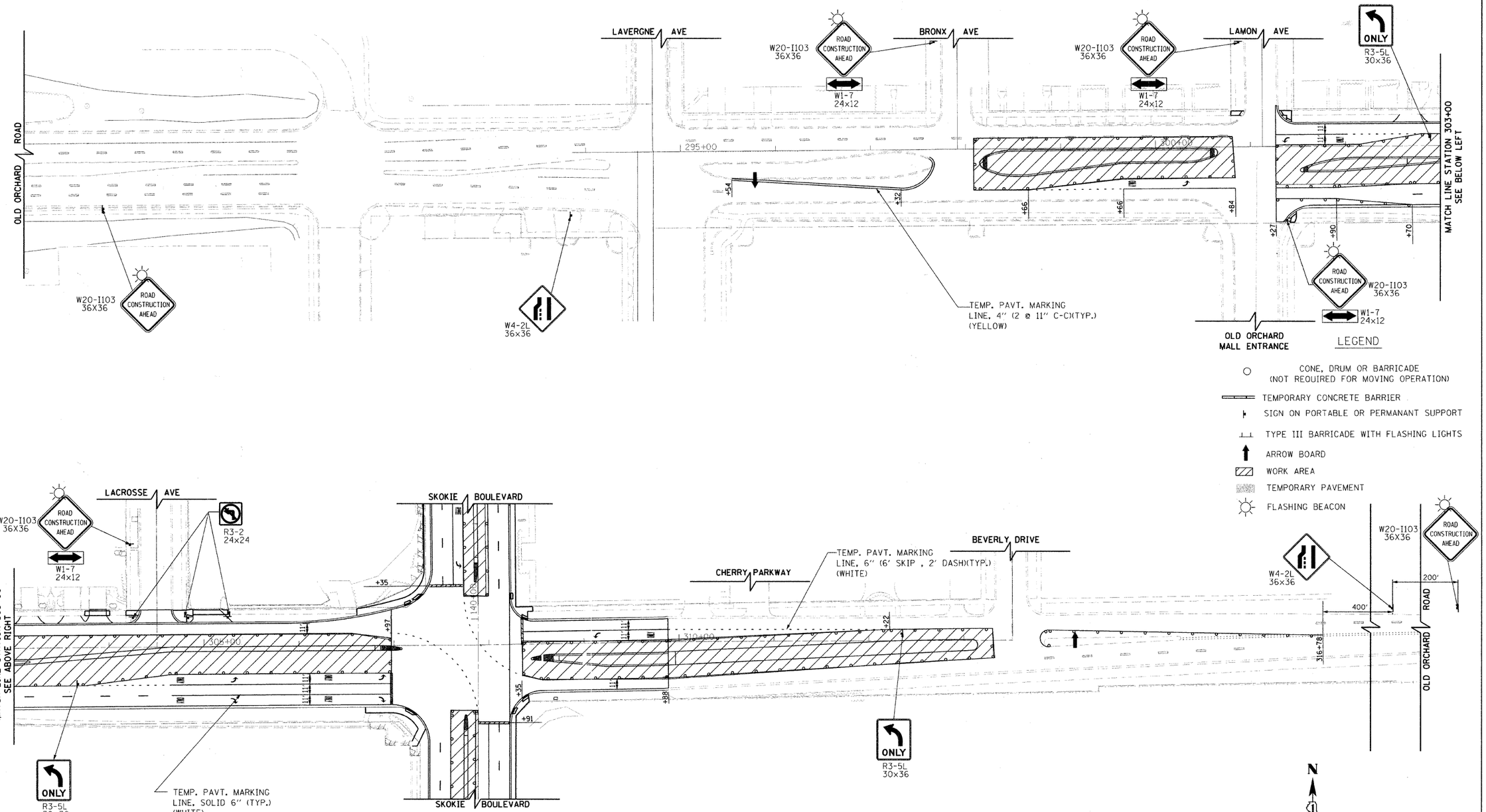
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-5)

SCALE: 1"=50' | SHEET NO. 20 OF 21 SHEETS | STA. 114+00 TO STA. 147+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	41
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



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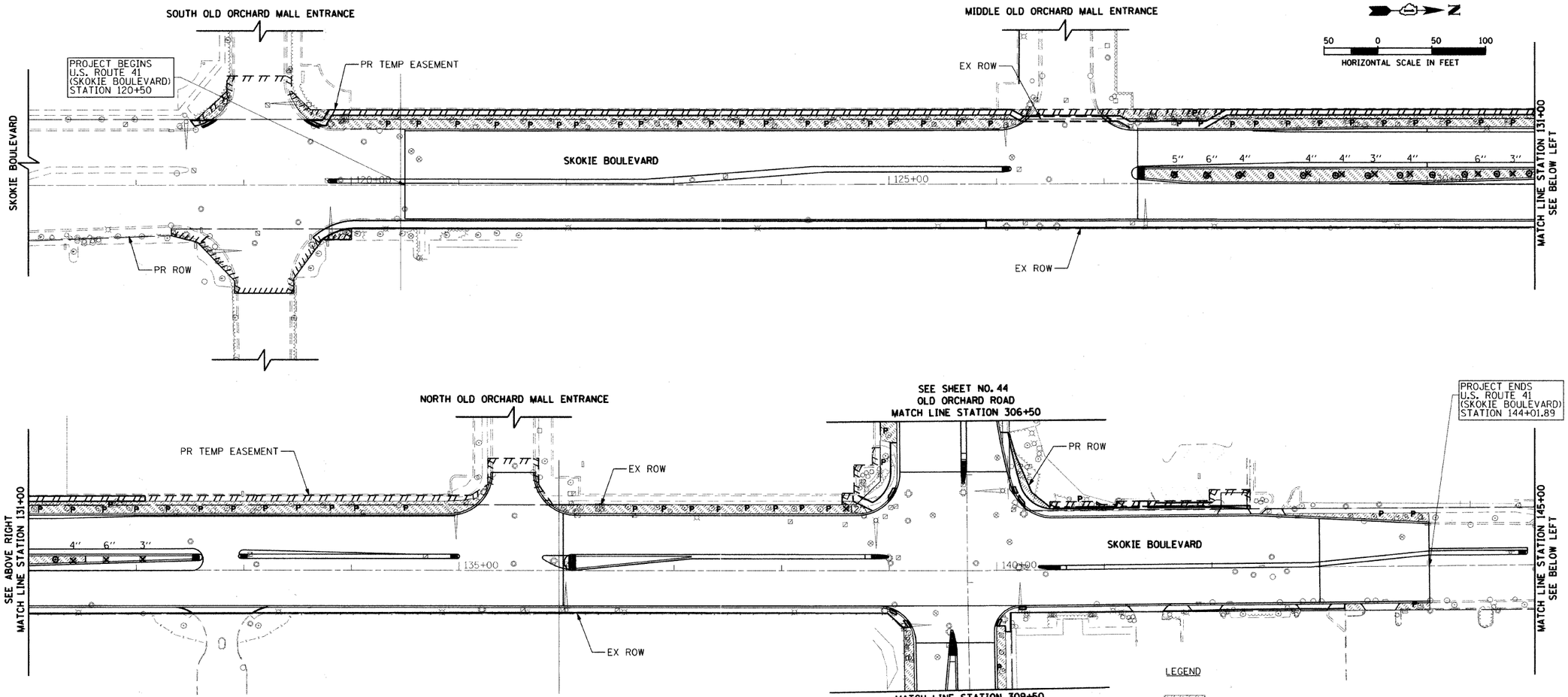
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

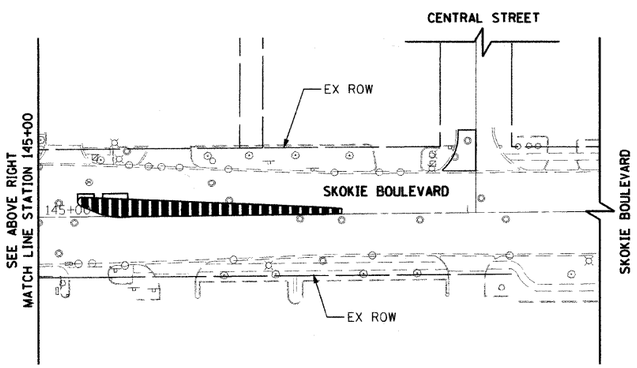
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
SUGGESTED TRAFFIC CONTROL PLAN (STAGE-5)

SCALE: 1"=50' | SHEET NO. 21 OF 21 SHEETS | STA. 295+00 | TO STA. 314+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	42
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		





SEE SHEET 44 FOR TEMPORARY EROSION CONTROL NOTES.

LEGEND

	SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 4" NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENT
P	TEMPORARY FENCE, PRUNING, AND ROOT PRUNING
⊠	TREE REMOVAL

TREE REMOVAL			
STATION	OFFSET (FT)		UNIT
SKOKIE BOULEVARD			
127+66	8	LT	5
127+99	8	LT	6
128+28	9	LT	4
128+89	9	LT	4
129+21	9	LT	4
129+51	9	LT	3
129+84	9	LT	4
130+46	9	LT	6
130+79	9	LT	3
131+41	9	LT	4
131+72	9	LT	6
132+06	9	LT	3

PROPOSED TREES					
IDOT CODE	SCIENTIFIC NAME	COMMON NAME	STATION	OFFSET (FT)	
SKOKIE BOULEVARD					
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	127+65	8	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	127+95	8	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	128+25	8	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	128+55	8	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	128+85	8	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	129+15	8	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	129+45	8	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	129+75	8	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	130+05	8	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	130+35	9	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	130+65	9	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	130+95	10	LT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	131+25	10	LT

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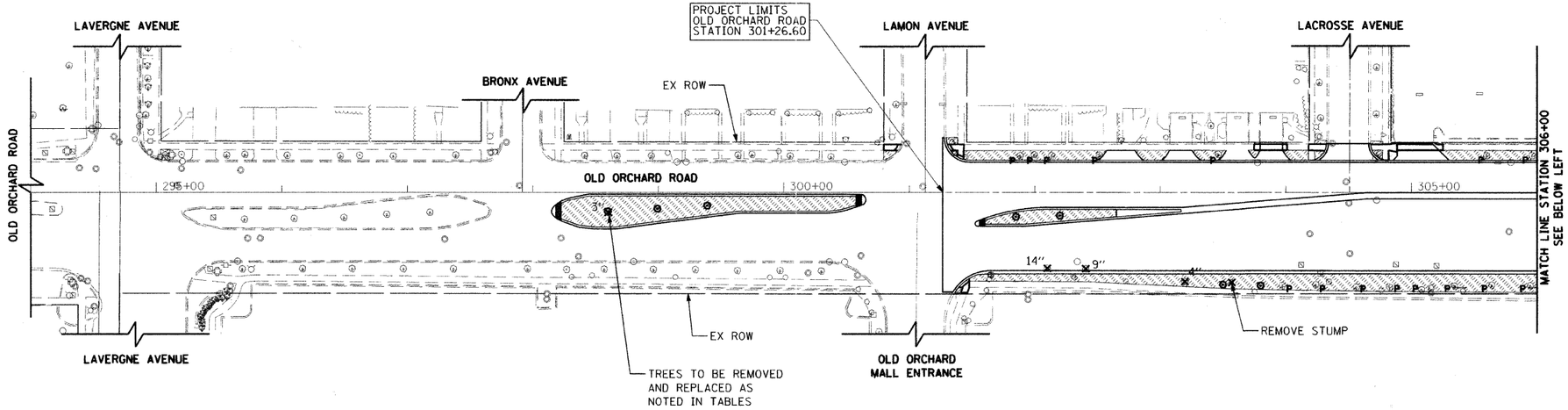
		DRAWN AJP	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 6/3/2011	DATE 12-10-10	REVISED -

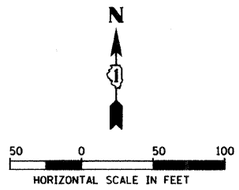
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

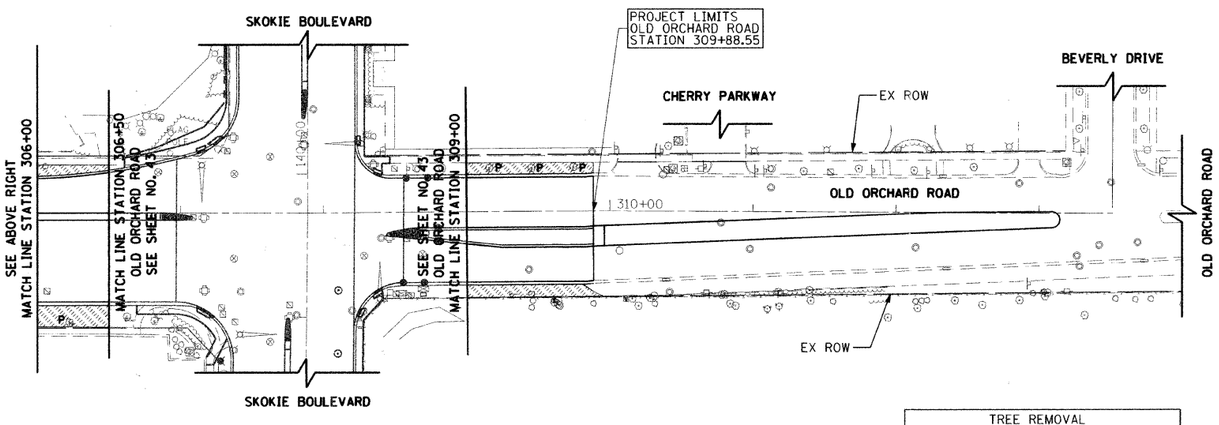
U.S. ROUTE 41 (SKOKIE BOULEVARD)
LANDSCAPING & EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET NO. 1 OF 2 SHEETS | STA. 120+50 | TO STA. 144+01.89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	43
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		







TEMPORARY EROSION CONTROL NOTES

1. THE ENGINEER SHALL CONDUCT A FIELD REVIEW FOR EROSION AND SEDIMENT CONTROL WITH THE PRIME AND SUBCONTRACTORS PRIOR TO ANY EARTHWORK OPERATIONS TO DETERMINE TIMING OF CONTROL MEASURES.
2. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES IMMEDIATELY AFTER STRIPPING OF EXISTING VEGETATION.
3. NO CONCENTRATED RUNOFF FLOW FROM STRIPPED AREAS SHALL LEAVE THE SITE WITHOUT BEING TREATED. THE CONTRACTOR SHALL ADJUST HIS OPERATIONS AND IMPLEMENT EROSION CONTROL MEASURES ACCORDINGLY.
4. INLET FILTERS SHALL BE PROVIDED ON ALL EXISTING AND PROPOSED INLETS AND CATCH BASINS WITHIN THE PROJECT LIMITS. SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING WILL BE REQUIRED DURING THE CONSTRUCTION PERIOD AS NEEDED. AN ESTIMATED QUANTITY OF 2 ADDITIONAL CLEANINGS HAS BEEN INCLUDED IN THE QUANTITIES.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND ENGINEER AT LEAST ONCE EVERY SEVEN DAYS WITHIN 24 HOURS OF ANY STORM EXCEEDING ½" OF PRECIPITATION OR EQUIVALENT SNOWFALL.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 06-60.
7. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL, BUT NO MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED IN AN AREA WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.
8. THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK, REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEEDED.

TREE REMOVAL			
STATION	OFFSET (FT)		UNIT
OLD ORCHARD ROAD			
298+60	15	RT	3
302+12	56	RT	14
302+43	57	RT	9
303+22	67	RT	4

PROPOSED TREES					
IDOT CODE	SCIENTIFIC NAME	COMMON NAME	STATION	OFFSET (FT)	
OLD ORCHARD ROAD					
A2005016	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	298+60	15	RT
A2005016	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	298+99	13	RT
A2005016	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	299+39	11	RT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	301+85	20	RT
A2008518	ULMUS MORTON GLOSSY	TRIUMPH ELM	302+20	19	RT
B2005716	PYRUS CALLERYANA 'CHANTICLEER'	CHANTICLEER PEARS	303+50	73	RT
B2005716	PYRUS CALLERYANA 'CHANTICLEER'	CHANTICLEER PEARS	303+80	74	RT

LEGEND

SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 4"
NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENT

P — TEMPORARY FENCE, PRUNING, AND ROOT PRUNING

⊠ — TREE REMOVAL

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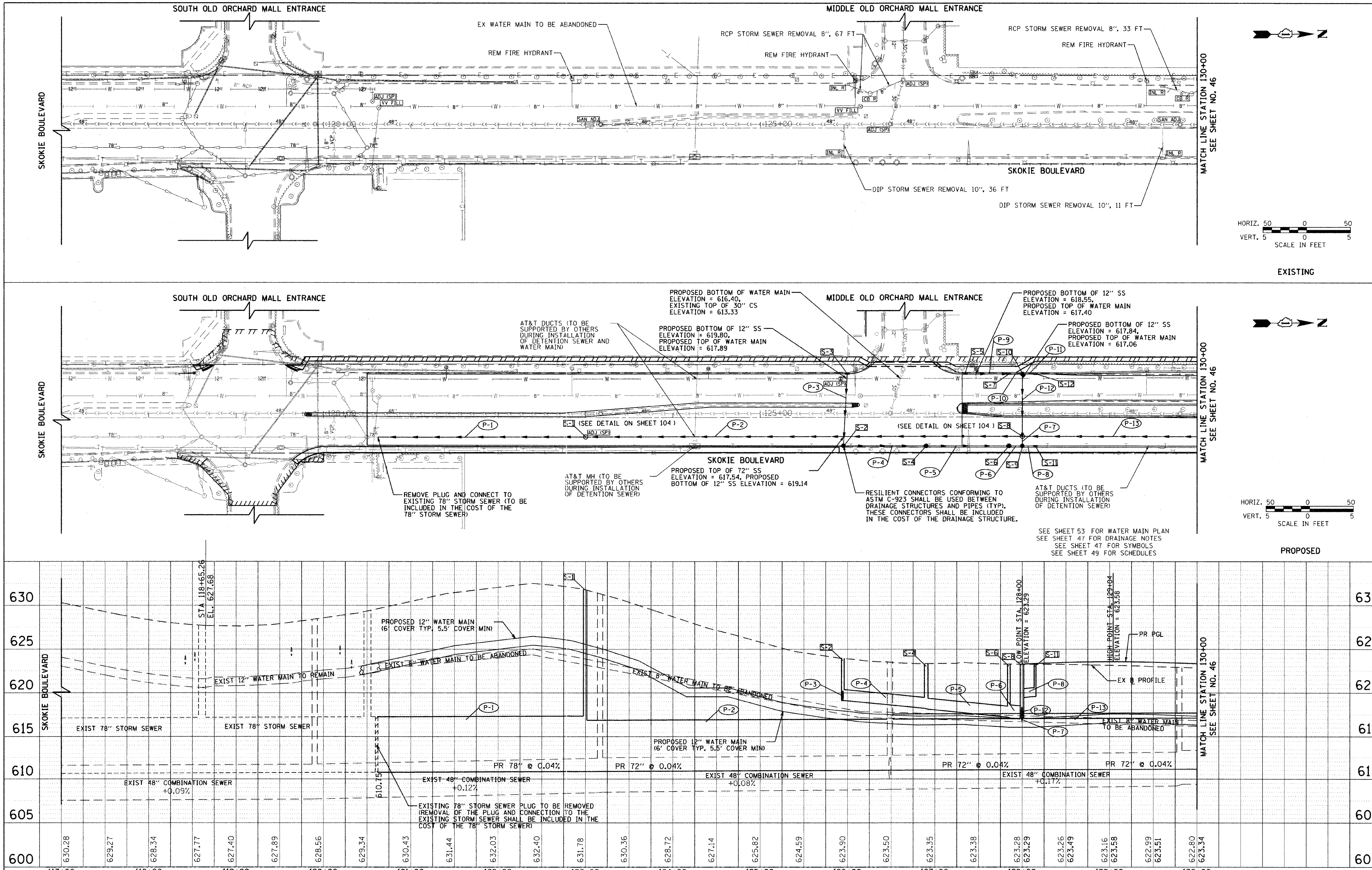
		DRAWN AJP	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 6/3/2011	DATE 12-10-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
LANDSCAPING & EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 2 SHEETS | STA. 301+26.60 | TO STA. 309+88.55

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	44
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		


SOUTH OLD ORCHARD MALL ENTRANCE
MIDDLE OLD ORCHARD MALL ENTRANCE
EX WATER MAIN TO BE ABANDONED
REM FIRE HYDRANT
RCP STORM SEWER REMOVAL 8", 67 FT
RCP STORM SEWER REMOVAL 8", 33 FT
DIP STORM SEWER REMOVAL 10", 36 FT
DIP STORM SEWER REMOVAL 10", 11 FT
SKOKIE BOULEVARD
MATCH LINE STATION 130+00 SEE SHEET NO. 46
HORIZ. 50 0 50
VERT. 5 0 5
SCALE IN FEET
EXISTING
PROPOSED BOTTOM OF WATER MAIN ELEVATION = 616.40, EXISTING TOP OF 30" CS ELEVATION = 613.33
AT&T DUCTS (TO BE SUPPORTED BY OTHERS DURING INSTALLATION OF DETENTION SEWER AND WATER MAIN)
PROPOSED BOTTOM OF 12" SS ELEVATION = 619.80, PROPOSED TOP OF WATER MAIN ELEVATION = 617.89
PROPOSED BOTTOM OF 12" SS ELEVATION = 618.55, PROPOSED TOP OF WATER MAIN ELEVATION = 617.40
PROPOSED BOTTOM OF 12" SS ELEVATION = 617.84, PROPOSED TOP OF WATER MAIN ELEVATION = 617.06
(SEE DETAIL ON SHEET 104)
AT&T MH (TO BE SUPPORTED BY OTHERS DURING INSTALLATION OF DETENTION SEWER)
PROPOSED TOP OF 72" SS ELEVATION = 617.54, PROPOSED BOTTOM OF 12" SS ELEVATION = 619.14
REMOVE PLUG AND CONNECT TO EXISTING 78" STORM SEWER (TO BE INCLUDED IN THE COST OF THE 78" STORM SEWER)
RESILIENT CONNECTORS CONFORMING TO ASTM C-923 SHALL BE USED BETWEEN DRAINAGE STRUCTURES AND PIPES (TYP). THESE CONNECTORS SHALL BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE.
AT&T DUCTS (TO BE SUPPORTED BY OTHERS DURING INSTALLATION OF DETENTION SEWER)
SEE SHEET 53 FOR WATER MAIN PLAN
SEE SHEET 47 FOR DRAINAGE NOTES
SEE SHEET 47 FOR SYMBOLS
SEE SHEET 49 FOR SCHEDULES
PROPOSED
STA. 118+65.26 EL. 627.68
PROPOSED 12" WATER MAIN (6' COVER TYP, 5.5' COVER MIN)
EXIST 12" WATER MAIN TO REMAIN
EXIST 8" WATER MAIN TO BE ABANDONED
EXIST 78" STORM SEWER
EXIST 48" COMBINATION SEWER +0.09%
EXIST 48" COMBINATION SEWER +0.12%
EXIST 48" COMBINATION SEWER +0.08%
EXIST 48" COMBINATION SEWER +0.17%
EXISTING 78" STORM SEWER PLUG TO BE REMOVED (REMOVAL OF THE PLUG AND CONNECTION TO THE EXISTING STORM SEWER SHALL BE INCLUDED IN THE COST OF THE 78" STORM SEWER)
PR 78" @ 0.04%
PR 72" @ 0.04%
LOW POINT STA. 128+00 ELEVATION = 623.29
HIGH POINT STA. 129+04 ELEVATION = 623.58
PR PGL
EX ℄ PROFILE
EXIST 8" WATER MAIN TO BE ABANDONED
630 625 620 615 610 605 600
117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00 127+00 128+00 129+00 130+00

FILE NAME = gi\ch08\0045\road\sheets\045-DU-201.sht	USER NAME = CEComan	DESIGNED - CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 41 (SKOKIE BOULEVARD) DRAINAGE AND UTILITIES PLAN	F.A.P. RTE. 350	SECTION 00-00243-00-CH
	PLOT SCALE = 50.000 ' / IN.	DRAWN - CEC	REVISED -			COUNTY COOK	TOTAL SHEETS 142, SHEET NO. 45
	PLOT DATE = 6/3/2011	CHECKED - DWB	REVISED -		SCALE: 1"=50' SHEET NO. 1 OF 5 SHEETS STA. 117+00 TO STA. 130+00	CONTRACT NO. 63566	
		DATE - 06/03/2011	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

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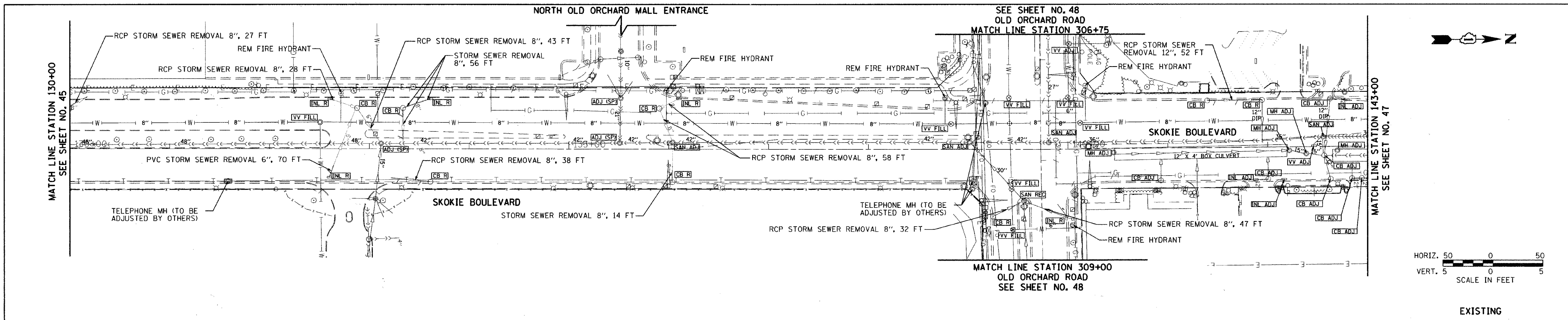
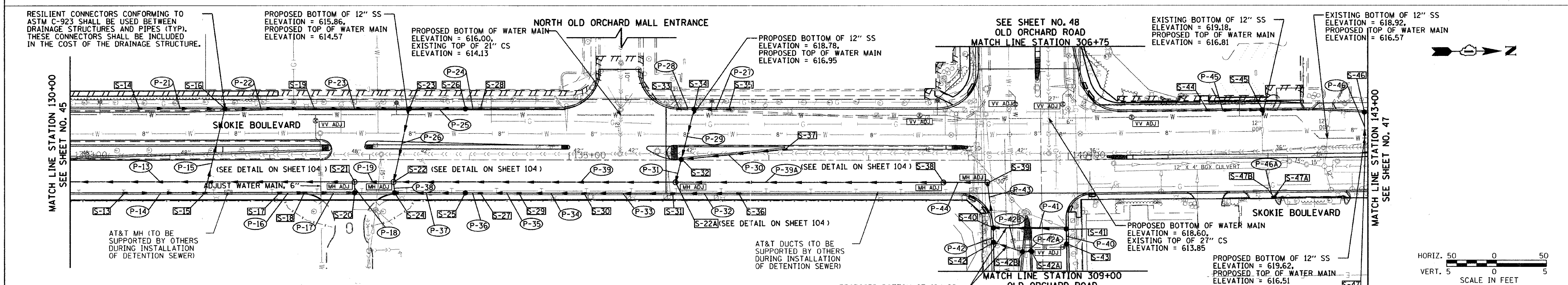
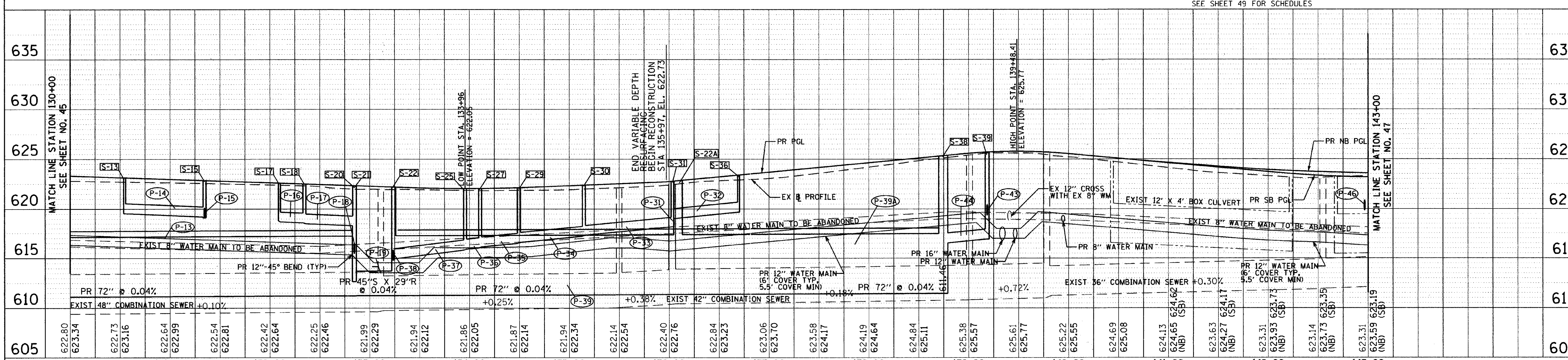
(847) 605-9600





SEE SHEET 53 FOR WATER MAIN PLAN
SEE SHEET 47 FOR DRAINAGE NOTES
SEE SHEET 47 FOR SYMBOLS
SEE SHEET 49 FOR SCHEDULES



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		DRAWN - CEC	REVISED -	
	PLOT SCALE = 50.000 ' / IN.	CHECKED - DWB	REVISED -	
	PLOT DATE = 10/26/2011	DATE - 10/26/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
DRAINAGE AND UTILITIES PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 5 SHEETS | STA. 130+00 TO STA. 143+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	46
		CONTRACT NO. 63566		

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT

PLAN: NOTE BOOK, NO. — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME — BY — DATE

PROFILE: NOTE BOOK, NO. — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CH'KD — BY — DATE

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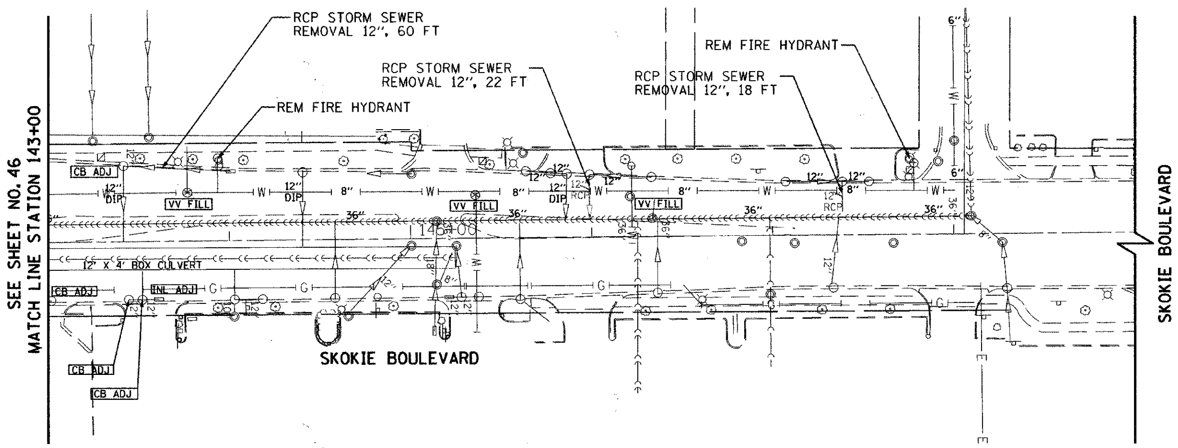


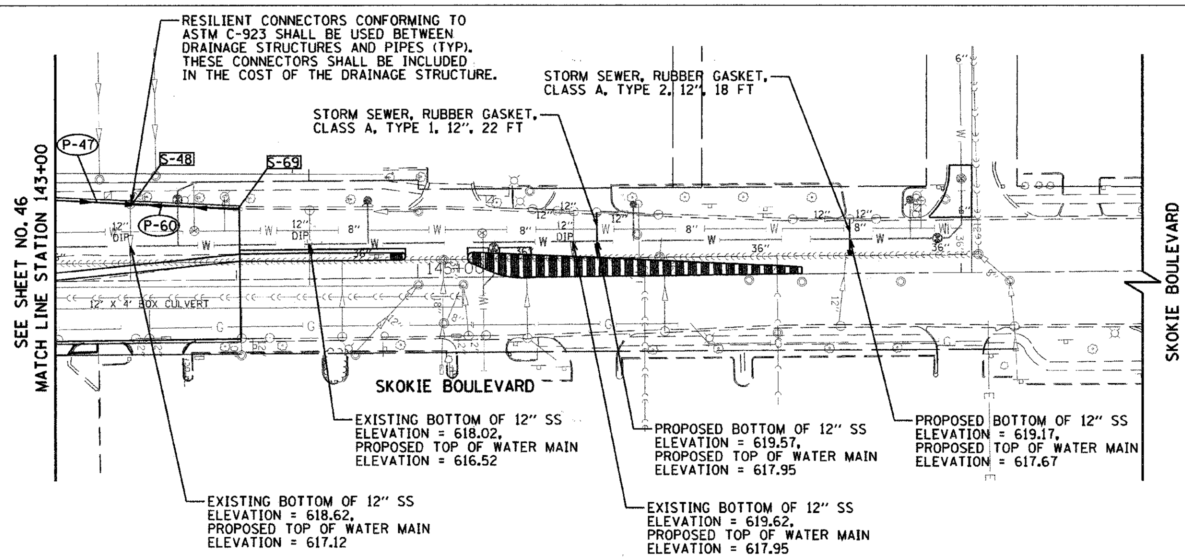
DRAINAGE SYMBOLS

EXISTING | PROPOSED

- STORM SEWER LINE
- COMBINED SEWER LINE
- SANITARY SEWER LINE
- STORM SEWER INLET
- STORM SEWER CB
- MANHOLE
- S-48 DRAINAGE STRUCTURE NUMBER
- P-47 DRAINAGE PIPE NUMBER
- ADJ STRUCTURE TO BE ADJUSTED
- FILL STRUCTURE TO BE FILLED
- R STRUCTURE TO BE REMOVED
- REC STRUCTURE TO BE RECONSTRUCTED
- [624.19] FINISHED RIM GRADE OF ADJUSTED STRUCTURE
- STORM SEWER REMOVAL
- ADJ (SP) FRAMES AND LIDS TO BE ADJUSTED, SPECIAL

HORIZ. 50 0 50
VERT. 5 0 5
SCALE IN FEET

EXISTING



UTILITY SYMBOLS

EXISTING | PROPOSED

- GAS LINE PIPE
- ABANDONED GAS LINE PIPE
- WATER MAIN
- AERIAL CABLE
- TELEPHONE CABLE IN CONDUIT
- TELECOMMUNICATIONS CABLE IN CONDUIT
- ABANDONED TELECOMMUNICATIONS CABLE IN CONDUIT
- FIRE HYDRANT
- VALVE VAULT
- UTILITY POLE
- FIBER OPTIC WARNING MARKER
- WATER VALVE BOX
- LIGHT POLE
- GROUND LIGHT
- COMBINATION LIGHT/UTILITY POLE

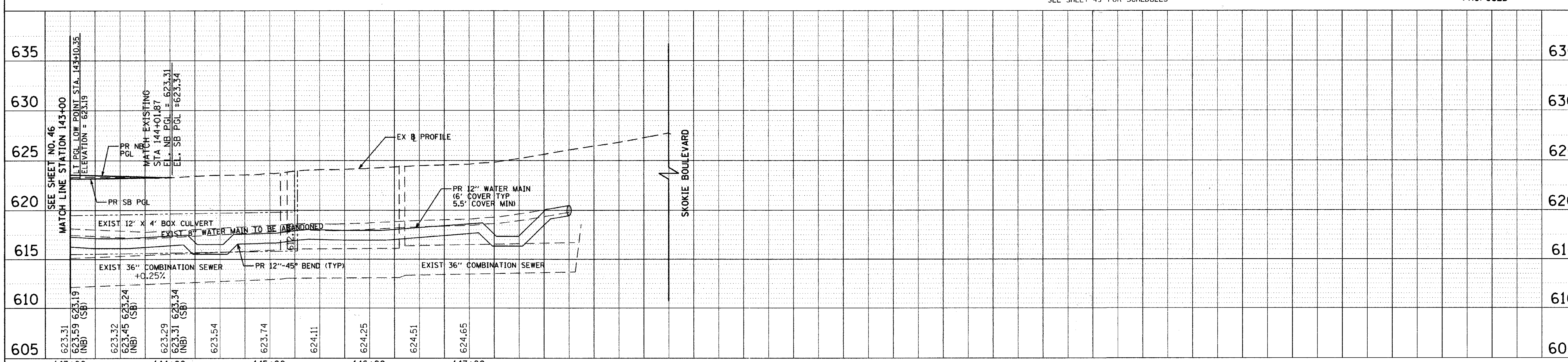
HORIZ. 50 0 50
VERT. 5 0 5
SCALE IN FEET

DRAINAGE NOTES:

1. TWO ADJUSTMENTS FOR THE EXISTING STRUCTURES WITHIN THE EXISTING MEDIANS HAVE BEEN INCLUDED IN THE QUANTITIES TO COMPENSATE FOR ADJUSTING TO THE TEMPORARY PAVEMENT GRADE FOR MOT STAGES AND THEN AGAIN TO THE FINAL FINISHED GRADE.
2. IT WAS ASSUMED THAT ANY STRUCTURES TO BE ADJUSTED, RECONSTRUCTED, OR ADJUSTED, SPECIAL WITHIN THE PROPOSED PAVEMENT OR PARKWAY WILL NEED A NEW TYPE 1 FRAME, CLOSED LID AND ANY STRUCTURES TO BE ADJUSTED OR RECONSTRUCTED WITHIN THE PROPOSED CURB LINE WILL NEED A NEW TYPE 23 FRAME AND GRATE. THESE ITEMS WILL BE PAID FOR SEPARATELY AND A PAY ITEM AND QUANTITIES FOR TYPE 1 FRAME, CLOSED LID AND TYPE 23 FRAME AND GRATE HAVE BEEN INCLUDED IN THE SUMMARY OF QUANTITIES. THE QUANTITIES OF TYPE 1 FRAME, CLOSED LID AND TYPE 23 FRAME AND GRATE WILL BE ADJUSTED TO MATCH THE ACTUAL NUMBERS OF TYPE 1 FRAMES, CLOSED LID AND TYPE 23 FRAMES AND GRATES PLACED.
3. THE LOW POINT DRAINAGE STRUCTURES ALONG THE CURB LINES SHALL BE ADJUSTED TO THE BINDER GRADE AND THEN AGAIN ADJUSTED TO THE FINISHED SURFACE GRADE TO PREVENT PONDING OF WATER DURING CONSTRUCTION. A 5-FOOT SECTION OF CURB AND GUTTER EITHER SIDE OF THESE STRUCTURES SHALL BE OMITTED AND TEMPORARILY FILLED WITH GRANULAR MATERIAL (INCLUDED IN THE COST OF THE PROPOSED CURB & GUTTER) UNTIL THE STRUCTURES ARE AT FINISHED SURFACE GRADE. ADDITIONAL ADJUSTMENTS HAVE BEEN ADDED TO THE QUANTITIES FOR THIS WORK.
4. WHEN PROPOSED STORM SEWERS ARE CONNECTED TO EXISTING DRAINAGE STRUCTURES, NEW OPENINGS OR MODIFICATIONS TO EXISTING OPENINGS SHALL BE MADE IN THE EXISTING DRAINAGE STRUCTURES TO ACCEPT THE PROPOSED STORM SEWER. THE WORK TO MODIFY THE EXISTING DRAINAGE STRUCTURES AND CONNECT TO THE PROPOSED STORM SEWER SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER. ANY EXISTING STORM SEWER TO BE ABANDONED SHOULD BE PLUGGED WITH CLASS SI CONCRETE OR BRICK AND MORTAR AND THE COST SHALL BE INCLUDED IN THE STORM SEWER TO BE REMOVED.

SEE SHEET 53 FOR WATER MAIN PLAN
SEE SHEET 49 FOR SCHEDULES

PROPOSED



PLAN	
SURVEYED	PLOTTED
ALIGNMENT CHECKED	R.O.W. CHECKED
CADD FILE NAME	NOTE BOOK NO.

PROFILE	
SURVEYED	PLOTTED
GRADES CHECKED	B.M. NOTED
STRUCTURE NOTATIONS CHK'D	NOTE BOOK NO.

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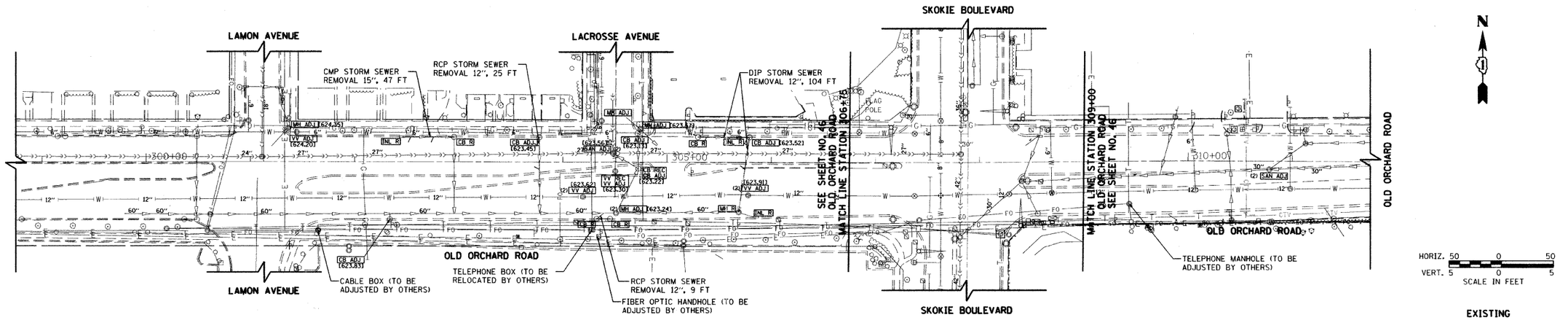
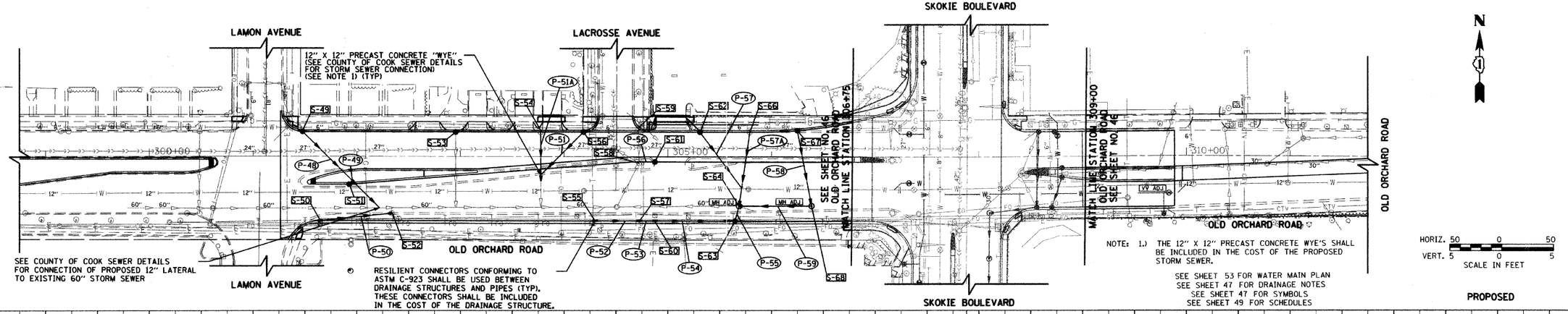
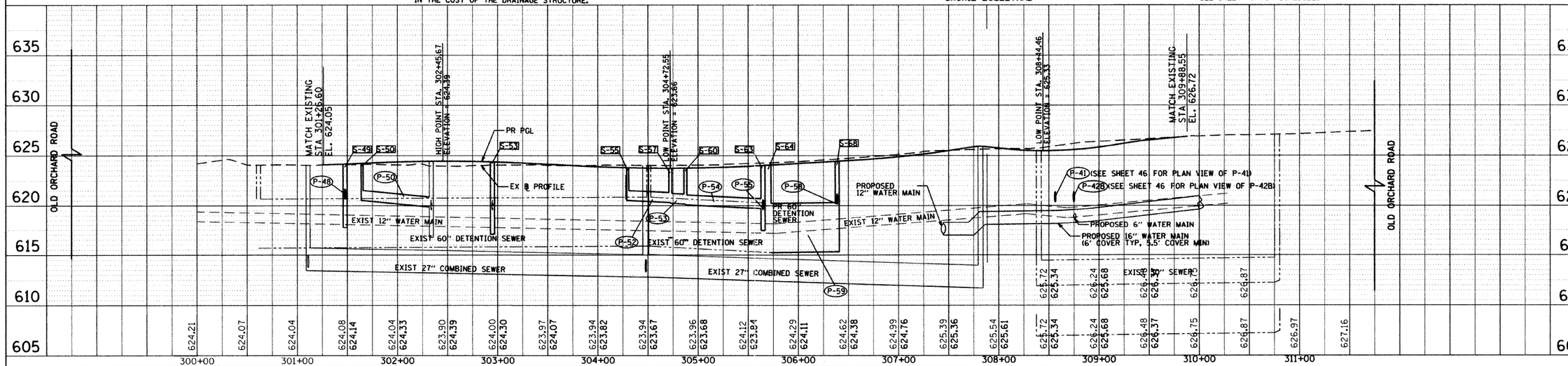
FILE NAME =	USER NAME = CECom	DESIGNED - CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 41 (SKOKIE BOULEVARD) DRAINAGE AND UTILITIES PLAN	F.A.P. RTE. 350	SECTION 00-00243-00-CH	COUNTY COOK	TOTAL SHEETS 142	SHEET NO. 47
g:\ch28\0045\road\sheets\045-DU-203.sht		DRAWN - CEC	REVISED -					CONTRACT NO. 63566		
	PLOT SCALE = 50.000 ' / IN.	CHECKED - DWB	REVISED -		SCALE: 1"=50' SHEET NO. 3 OF 5 SHEETS STA. 143+00 TO STA. 149+00	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
	PLOT DATE = 10/26/2011	DATE - 10/26/2011	REVISED -							

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
AND FILE MADE
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.R. NOTED
STRUCTURE NUMBERING CHKD
NOTE BOOK
NO.
BY
DATE







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FILE NAME = g:\ch28\0045\road\sheets\045-DU-301.sht	USER NAME = CEComin	DESIGNED - CEC	REVISED -
		DRAWN - CEC	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED - DWB	REVISED -
	PLOT DATE = 6/3/2011	DATE - 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
DRAINAGE AND UTILITIES PLAN

SCALE: 1"=50' | SHEET NO. 4 OF 5 SHEETS | STA. 300+00 | TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	48
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF STORM SEWER STRUCTURES:

STR. NO.	STATION	OFFSET (FT)	TYPE	FRAME & GRATE	RIM ELEV.	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	EAST	WEST	SOUTH	NORTH
S-1	123+00	22.0' RT	PRECAST T MANHOLE 78" SS	T1F, CL	630.98							610.84	610.84
S-2	125+95	33.0' RT	PR CB TY A, 4' DIA.	T23F&G	EX=623.40						619.23		619.13
S-3	126+00	49.0' LT	PR INL TY A	T23F&G	EX=623.07					620.02			
S-4	126+90	33.0' RT	PR CB TY A, 4' DIA.	T23F&G	EX=622.96							618.22	618.12
S-5	127+35	49.0' LT	PR INL TY A	T23F&G	EX=622.56								618.83
S-6	127+85	33.0' RT	PR CB TY A, 4' DIA.	T23F&G	622.56							617.21	617.11
S-7	127+85	49.0' LT	PR INL TY B	T23F&G	622.34							618.35	618.25
S-8	128+00	22.0' RT	PRECAST T MANHOLE 72" SS	T1F, CL	622.81					616.83	617.37	611.04	611.04
S-9	128+00	33.0' RT	PR CB TY A, 4' DIA.	T23F&G	622.56						616.90	617.00	619.47
S-10	128+00	49.0' LT	PR CB TY A, 4' DIA.	T23F&G	622.34					618.04		618.14	619.31
S-11	128+15	33.0' RT	PR INL TY A	T23F&G	622.59							619.59	
S-12	128+15	49.0' LT	PR INL TY A	T23F&G	622.43							619.43	
S-13	130+55	33.0' RT	PR INL TY A	T23F&G	622.32								619.57
S-14	130+70	51.0' LT	PR INL TY A	T23F&G	622.19								619.19
S-15	131+35	33.0' RT	PR INL TY B	T23F&G	622.04		619.13					619.23	
S-16	131+55	51.0' LT	PR CB TY A, 4' DIA.	T23F&G	621.9			618.72				618.37	618.27
S-17	132+10	33.0' RT	PR INL TY A	T23F&G	621.77								618.71
S-18	132+35	33.0' RT	PR INL TY B	T23F&G	621.69							618.61	618.51
S-19	132+45	51.0' LT	PR INL TY B	T23F&G	621.58							617.41	617.31
S-20	132+85	33.0' RT	PR CB TY A, 4' DIA.	T23F&G	621.51						615.50	618.31	
S-21	132+85	22.0' RT	PRECAST T MANHOLE 72" SS	T1F, CL	621.79					615.45		611.23	611.23
S-22	133+24	22.0' RT	PRECAST T MANHOLE 72" SS	T1F, CL	621.65		614.98			614.76		611.24	611.24
S-22A	136+07	22.0' RT	PRECAST T MANHOLE 72" SS	T1F, CL	622.38		618.39					611.36	611.36
S-23	133+40	51.0' LT	PR CB TY A, 4' DIA.	T23F&G	621.25			616.11				616.21	617.42
S-24	133+25	33.0' RT	PR CB TY A, 4' DIA.	T23F&G	621.37						614.89		614.99
S-25	133+96	33.0' RT	PR CB TY A, 4' DIA.	T23F&G	621.22							615.83	615.93
S-26	133+96	51.0' LT	PR CB TY A, 4' DIA.	T23F&G	621.15							617.94	618.04
S-27	134+11	33.0' RT	PR INL TY B	T23F&G	621.24							616.04	616.14
S-28	134+11	51.0' LT	PR INL TY A	T23F&G	621.16							618.16	
S-29	134+50	33.0' RT	PR INL TY B	T23F&G	621.32							616.50	616.60
S-30	135+15	33.0' RT	PR INL TY B	T23F&G	621.58							617.22	617.32
S-31	136+04	33.0' RT	PR INL TY B	T23F&G	622.08							618.18	619.06
S-32	136+12	0.68' LT	PR CB TY A, 4' DIA.	T23F&G	622.86		618.63	618.53					619.61
S-33	136+10	51.0' LT	PR INL TY A	T23F&G	622.07								619.15
S-34	136+25	51.0' LT	PR CB TY A, 4' DIA.	T23F&G	622.21			618.99				619.09	619.22
S-35	136+60	51.0' LT	PR INL TY A	T23F&G	622.54							619.54	
S-36	136+70	33.0' RT	PR INL TY A	T23F&G	622.7							619.70	
S-37	137+16	11.0' LT	PR INL TY A	T23F&G	623.63							620.63	
S-38	138+75	22.0' RT	PRECAST T MANHOLE 72" SS	T1F, CL	624.9							611.46	616.51
S-39	139+19	22.0' RT	PR MH TY A-4' DIA.	T1F, CL	625.46					619.40		616.91	
S-40	308+55	49.0' RT	PR CB TY A, 4' DIA.	T23F&G	625.05					619.92	619.82		620.13
S-41	308+57.93	24.0' LT	PR CB TY A, 4' DIA.	T23F&G	624.86					620.92		620.82	
S-42	308+70	49.0' RT	PR CB TY A, 4' DIA.	T23F&G	625.11	620.12					620.02		
S-42A	308+80	11.0' RT	PR CB TY A, 4' DIA.	T23F&G	625.71							620.54	
S-42B	308+80	20.23' RT	PR CB TY A, 4' DIA.	T23F&G	625.55				620.39				620.49
S-43	308+73	24.0' LT	PR CB TY A, 4' DIA.	T23F&G	624.93						621.03		
S-44	141+40	48.0' LT	PR INL TY A	T23F&G	623.54								620.54
S-45	141+95	48.0' LT	PR CB TY A, 4' DIA.	T23F&G	623.05					EX=619.18		620.02	
S-46	142+97	44.9' LT	PR INL TY B	T23F&G	622.55					619.55			619.45
S-47	142+97	4.4' LT	PR INL TY A	T23F&G	622.98						619.93		
S-47A	142+05.66	39.07' RT	PR INL TY A	T1F, OL	623.08				619.08				
S-47B	142+00	32.1' RT	EX CB - ADJ NEW T23 F&G	T23F&G	623.22	619.02					EX=617.49	EX=617.54	
S-48	143+42	42.0' LT	EX CB - ADJ NEW T23 F&G	T23F&G	622.66					EX=618.85		619.04	EX=618.90
S-49	301+48	24.0' LT	PR CB TY A, 4' DIA.	T23F&G	623.65			620.63					
S-50	301+65	62.0' RT	PR INL TY A	T24F&G	623.5					620.50			
S-51	301+93	27.0' RT	PR CB TY A, 4' DIA.	T23F&G	624.31					619.97			
S-52	302+34	54.9' RT	EX CB - ADJ NEW T1F, CL	T1F, CL	623.83						619.84		EX=619.53
S-53	302+95	24.0' LT	PR CB TY A, 4' DIA.	T23F&G	623.84							EX=619.50	
S-54	303+77	24.0' LT	EX CB - ADJ NEW T23 F&G	T23F&G	623.45							618.78	
S-55	304+30	62.0' RT	PR INL TY A	T24F&G	622.95					620.45			
S-56	304+19	24.0' LT	PR CB TY A, 4' DIA.	T23F&G	623.27				619.00				
S-57	304+73	62.0' RT	PR INL TY B	T24F&G	622.90					620.15	620.25		
S-58	304+73	5.0' RT	EX CB - RECON NEW T23 F&G	T23F&G	623.22		EX=615.28		EX=614.48	620.10			EX=616.48
S-59	304+73	27.4' LT	EX CB - ADJ NEW T23 F&G	T23F&G	623.13							EX=619.51	
S-60	304+88	62.0' RT	PR INL TY B	T24F&G	622.9					619.99	620.09		
S-61	304+88	5.0' RT	PR CB TY A, 4' DIA.	T23F&G	623.22						620.22		
S-62	305+31	24.0' LT	PR CB TY A, 4' DIA.	T23F&G	623.28			619.96					
S-63	305+65	62.0' RT	PR CB TY A, 4' DIA. (2' SUMP)	T24F&G	623.16	619.52					619.62		
S-64	305+69	47.6' RT	PR MH TY A-8' DIA.	T1F, CL	623.53				619.41	615.17	EX=615.17		619.12
S-65	NOT USED												
S-66	305+79	24.0' LT	EX CB - ADJ NEW T23 F&G	T23F&G	623.52							620.02	
S-67	306+25	25.6' LT	PR CB TY A, 4' DIA.	T23F&G	623.76							620.76	
S-68	306+39	47.4' RT	PR MH TY A-7' DIA.	T1F, CL	623.91						615.21		620.06
S-69	144+01	39.0' LT	EX INL - ADJ NEW T23 F&G	T23F&G	622.71							EX=619.81	

SCHEDULE OF STORM SEWER PIPES:

PIPE NO.	STRUCTURE FROM	STRUCTURE TO	ITEM	CLASS	TYPE	SIZE	LENGTH (FT)	SLOPE	TBF (CU YD)
P-1	S-1	EX PIPE	SS RG	A	3	78"	234	0.04%	1131
P-2	S-8	S-1	SS RG	A	2	72"	492	0.04%	1740
P-3	S-3	S-2	SS RG	A	1	12"	80	1.00%	18
P-4	S-2	S-4	SS RG	A	1	15"	91	1.00%	32
P-5	S-4	S-6	SS RG	A	2	15"	91	1.00%	41
P-6	S-6	S-9	SS RG	A	2	18"	11	1.00%	6
P-7	S-9	S-8	SS RG	A	2	18"	7	1.00%	5
P-8	S-11	S-9	SS RG	A	1	12"	12	1.00%	2
P-9	S-5	S-7	DIP	-	-	12"	48	1.00%	13
P-10	S-7	S-10	DIP	-	-	12"	12	1.00%	4
P-11	S-12	S-10	DIP	-	-	12"	12	1.00%	2
P-12	S-10	S-8	SS RG	A	2	12"	67	1.00%	29
P-13	S-21	S-8	SS RG	A	2	72"	477	0.04%	827
P-14	S-13	S-15	SS RG	A	1	12"	78	0.44%	7
P-15	S-15	S-16	SS RG	A	1	12"	83	0.50%	11
P-16	S-17	S-18	SS RG	A	1	12"	23	0.44%	4
P-17	S-18	S-20	SS RG	A	1	12"	47	0.44%	8
P-18	S-20	S-21	SS RG	A	2	12"	7	0.75%	5
P-19	S-22	S-21	SS EQ RS	A	2	45"S X 29"R	32	0.04%	52
NOT USED									
P-21	S-14	S-16	DIP	-	-	12"	82	1.00%	14
P-22	S-16	S-19	DIP	-	-	12"	87	1.00%	24
P-23	S-19	S-23	DIP	-	-	12"	92	1.20%	36
P-24	S-28	S-26	DIP	-	-	12"	12	1.00%	2
P-25	S-26	S-23	DIP	-	-	12"	52	1.01%	11
P-26	S-23	S-22	SS RG	A	2	15"	70	1.60%	42
P-27	S-35	S-34	DIP	-	-	12"	32	1.01%	4
P-28	S-33	S-34	DIP	-	-	12"	12	0.50%	2
P-29	S-34	S-32	DIP	-	-	12"	48	0.75%	12
P-30	S-37	S-32	SS RG	A	1	12"	102	1.00%	15
P-31	S-32	S-22A	SS RG	A	1	12"	20	0.75%	7
P-32	S-36	S-31	SS RG	A	1	12"	64	1.00%	8
P-33	S-31	S-30	SS RG	A	1	12"	86	1.00%	26
P-34	S-30	S-29	SS RG	A	2	12"	62	1.00%	23
P-35	S-29	S-27	SS RG	A	2	12"	36	1.00%	16
P-36	S-27	S-25	SS RG	A	2	12"	12	0.96%	6
P-37	S-25	S-24	SS RG	A	2	12"	67	1.25%	40
P-38	S-24	S-22	SS RG	A	2	12"	7	1.80%	5
P-39	S-22A	S-22	SS RG	A	2	72"	275	0.04%	430
P-39A	S-38	S-22A	SS RG	A	2	72"	260	0.04%	555
P-40	S-43	S-41	SS RG	A	1	12"	12	1.00%	4
P-41	S-41	S-40	DIP	-	-	12"	69	1.00%	25
P-42	S-42	S-40	SS RG	A	2	12"	11	1.00%	6
P-42A	S-42A	S-42B	DIP	-	-	12"	5	1.00%	3
P-42B	S-42B	S-42	DIP	-	-	12"	27	1.00%	13
P-43	S-40	S-39	SS RG	A	2	12"	42	1.00%	23
P-44	S-39	S-38	SS RG	A	2	12"	41	1.00%	41
P-45	S-44	S-45	DIP	-	-	12"	52	1.00%	7
P-46	S-47	S-46	SS RG	A	1	12"	38	1.00%	5
P-46A	S-47A	S-47B	SS RG	A	1	12"	6	1.00%	2
P-47	S-46	S-48	SS RG	A	1	12"	42	1.00%	8
P-48	S-49	EX 60" PIPE	SS RG	A	1	12"	101	1.00%	15
P-49	S-51	PR WYE	DIP	-	-	12"	5	1.00%	6
P-50	S-50	S-52	SS RG	A	1	12"	67	1.00%	14
P-51	S-56	PR WYE	SS RG	A	2	12"	56	1.00%	8
P-51A	S-54	EX INV	SS RG	A	2	12"	46	0.86%	6
P-52	S-55	S-57	SS RG	A	1	12"	41	0.50%	3
P-53	S-57	S-60	SS RG	A	1	12"	12	0.50%	2
P-54	S-60	S-63	SS RG	A	1	12"	74	0.50%	12
P-55	S-63	S-64	SS RG	A	1	12"	11	1.00%	3
P-56	S-61	S-58	SS RG	A	1	12"	12	1.00%	2
P-57	S-62	PR WYE	SS RG	A	1	12"	65	1.00%	9
P-57A	S-66	S-64	SS RG	A	1	12"	69	1.31%	7
P-58	S-67	S-68	DIP	-	-	12"	71	1.00%	14
P-59	S-68	S-64	SS RG	A	2	60"	62	0.06%	60
P-60	S-69	S-48	SS RG	A	1	12"	56	1.63%	10

SEE SHEET 104 FOR PRECAST "T" MANHOLE DETAILS

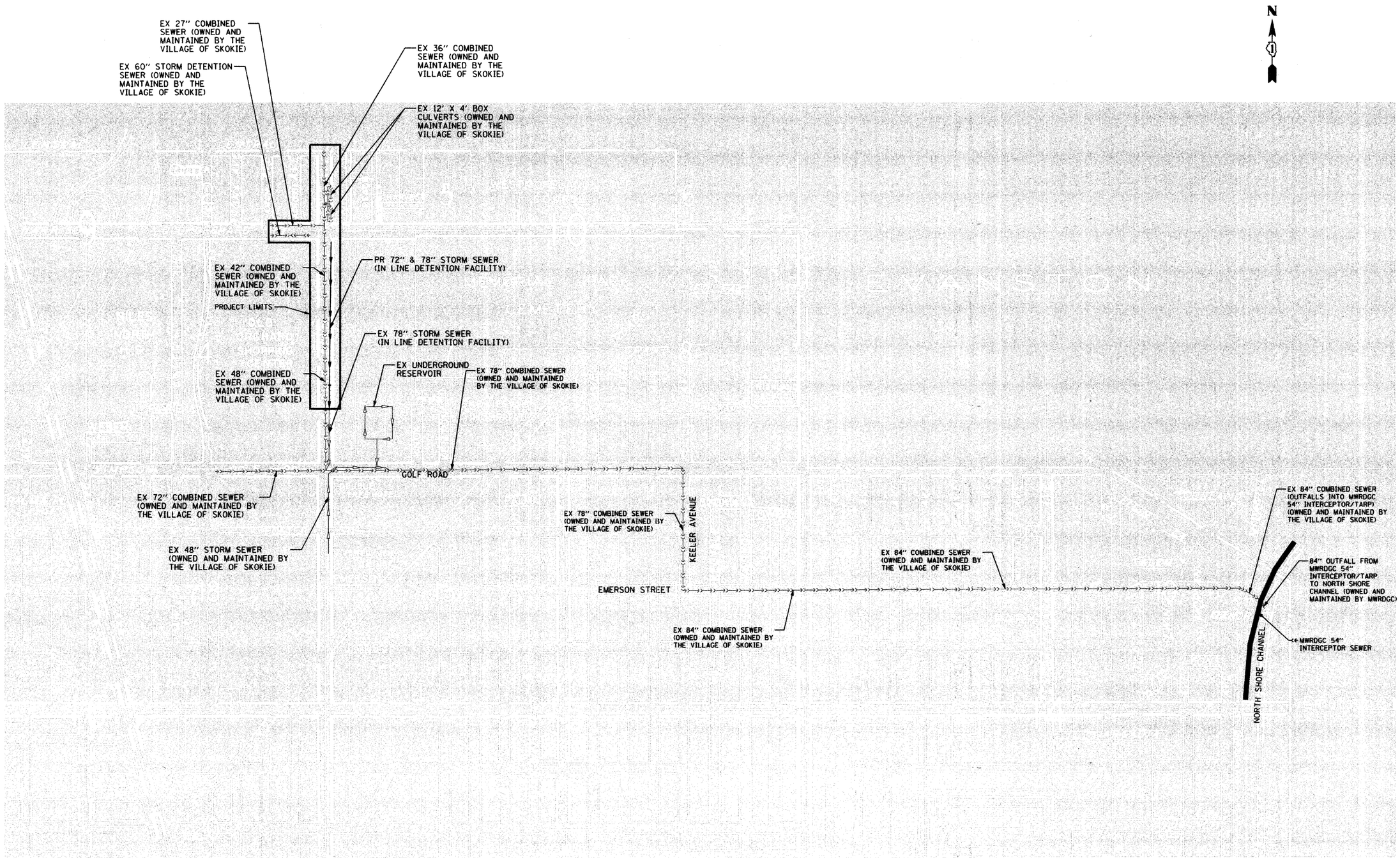
TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\ch85\0845\road\sheets\845-00-302.SHT	USER NAME = CECornin	DESIGNED CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN CEC	REVISED -	
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -	
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -	

U.S. ROUTE 41 (SKOKIE BOULEVARD)
DRAINAGE AND UTILITIES PLAN
SCHEDULE OF PIPES AND STRUCTURES

SCALE: NTS | SHEET NO. 5 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	49
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\ch88\rt045\road\sheets\MWRDRtgMap.sht	USER NAME = CEComin	DESIGNED CEC	REVISED -
		DRAWN CEC	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED DWB	REVISED -
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
MWRDGC ROUTING LOCATION MAP

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	50
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT DWB		

PART OF THE NE FRACT'L. 1/4 OF SEC. 9, PART OF THE SE 1/4 OF SEC. 9, PART OF THE NW FRACT'L. 1/4 OF SEC. 10 AND PART OF THE SW 1/4 OF SEC 10, TWP. 41 N., R. 13 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
0GU0001 0GU0001T.E.	Bank of America, National Association, as successor to LaSalle Bank, National Association, as successor to Talman Federal Savings and Loan Association	0.964	0.032	N/A	0.932	0.029	Construction Purposes	10-09-204-020 10-09-204-022 10-09-204-023 10-09-204-024 10-09-204-025 10-09-204-037	

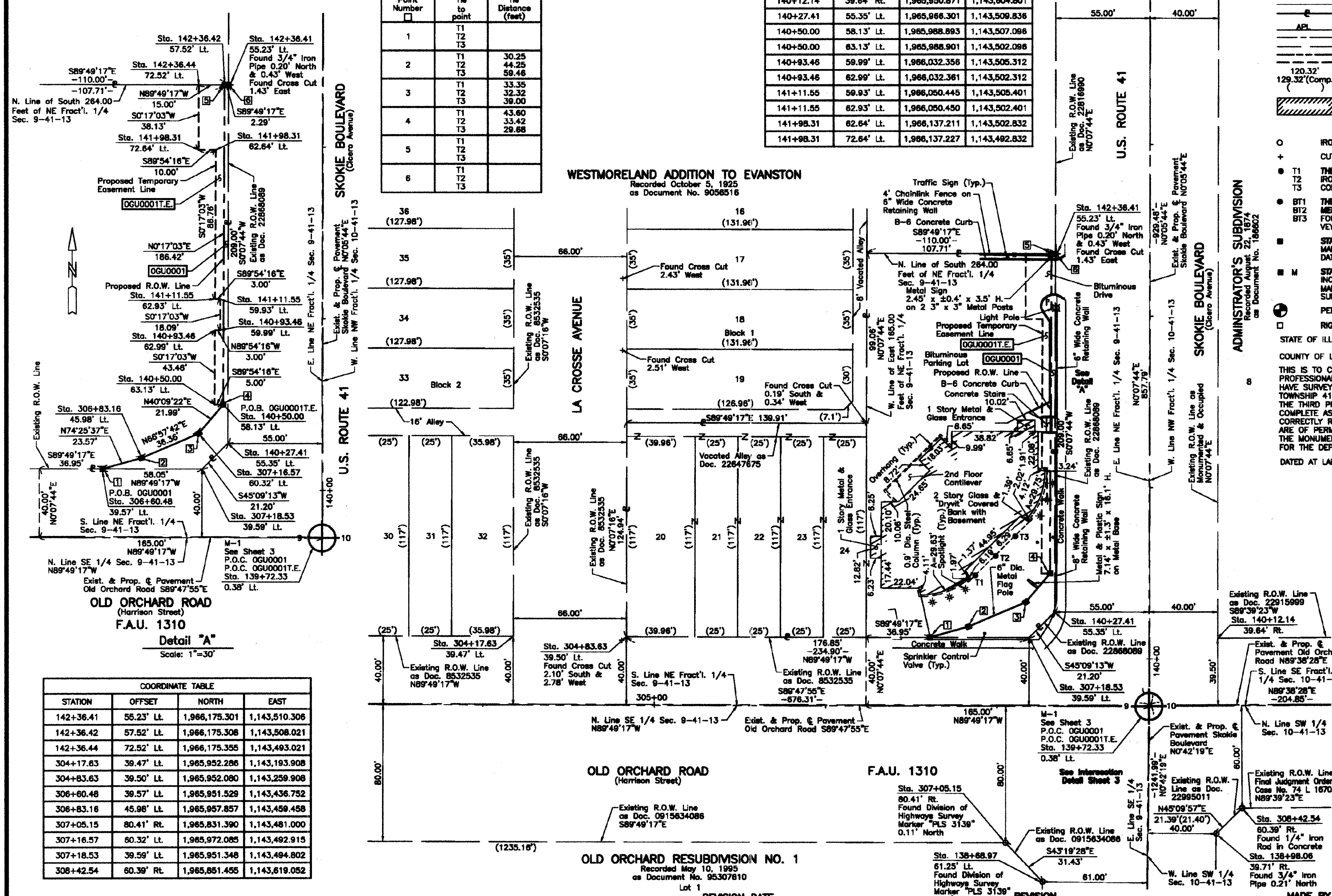
Schedule of Ties

Point Number □	Tie to point	Tie Distance (feet)
1	T1 T2 T3	
2	T1 T2 T3	30.25 44.25 59.46
3	T1 T2 T3	33.35 32.32 39.00
4	T1 T2 T3	43.60 33.42 29.68
5	T1 T2 T3	
6	T1 T2 T3	

Note: Surface Coordinates are Shown

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
138+68.97	61.25' Lt.	1,965,808.524	1,143,502.566
138+98.06	39.71' Rt.	1,965,836.373	1,143,603.882
139+72.33	0.38' Lt.	1,965,911.130	1,143,564.712
140+12.14	39.64' Rt.	1,965,950.871	1,143,604.801
140+27.41	55.35' Lt.	1,965,966.301	1,143,509.836
140+50.00	58.13' Lt.	1,965,988.893	1,143,507.096
140+50.00	63.13' Lt.	1,965,988.901	1,143,502.096
140+93.46	59.99' Lt.	1,966,032.356	1,143,505.312
140+93.46	62.99' Lt.	1,966,032.361	1,143,502.312
141+11.55	59.93' Lt.	1,966,050.445	1,143,505.401
141+11.55	62.93' Lt.	1,966,050.450	1,143,502.401
141+98.31	62.64' Lt.	1,966,137.211	1,143,502.832
141+98.31	72.64' Lt.	1,966,137.227	1,143,492.832



COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
142+36.41	55.23' Lt.	1,966,175.301	1,143,510.306
142+36.42	57.52' Lt.	1,966,175.308	1,143,508.021
142+36.44	72.52' Lt.	1,966,175.355	1,143,493.021
304+17.63	39.47' Lt.	1,965,952.286	1,143,193.908
304+83.63	39.50' Lt.	1,965,952.080	1,143,259.908
306+60.48	39.57' Lt.	1,965,951.529	1,143,436.752
306+83.16	45.98' Lt.	1,965,957.857	1,143,459.458
307+05.15	80.41' Rt.	1,965,831.390	1,143,481.000
307+16.57	60.32' Lt.	1,965,972.085	1,143,492.915
307+18.53	39.59' Lt.	1,965,951.348	1,143,494.802
308+42.54	60.39' Rt.	1,965,851.455	1,143,619.052

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' — MEASURED DIMENSION
- 129.32'(Comp.) — COMPUTED DIMENSION
- ( ) — RECORD DATA
- EXISTING BUILDING

N

0 30' 60'

SCALE: 1"=30'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- IRON PIPE OR ROD FOUND
- "MAG" NAIL SET
- CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 T2 T3 — ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 — ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M — ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 9, TOWNSHIP 41N., RANGE 13E. AND SECTION 10, TOWNSHIP 41N., RANGE 13E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS______DAY OF____________20___A.D.

PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

EXISTING R.O.W. RECORDED INFORMATION

Parcel	Document No.	Date Recorded
0UG0001	8532535	September 9, 1924
0UG0001	22868089	October 4, 1974
-----	8532535	September 9, 1924
-----	22816990	August 15, 1974
-----	22915999	November 22, 1974
-----	74 L 16703	*January 17, 1975
-----	0915634086	June 5, 2009

* Date Filed

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. 1310 (OLD ORCHARD ROAD)

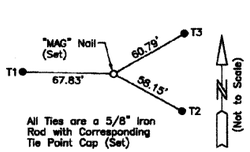
SECTION 00-00243-00-CH COOK COUNTY
PROJECT JOB NO. R-90-005-09
STATION 138+00 TO STATION 144+00 (Skokie Blvd.)
STATION 304+00 TO STATION 309+00 (Old Orchard Rd.)
SCALE: 1"=30' SHEET 2 OF 3

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

PART OF THE NE FRACT'L. 1/4 OF SEC. 9, PART OF THE SE 1/4 OF SEC. 9, PART OF THE NW FRACT'L. 1/4 OF SEC. 10 AND PART OF THE SW 1/4 OF SEC 10, TWP. 41 N., R. 13 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



Existing P.O.T.
Skokie Boulevard
Sta. 127+31.09
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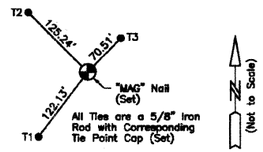
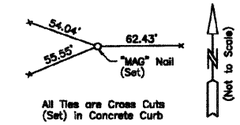


Existing & Proposed P.I.
Skokie Boulevard
Sta. 139+73.08
N.1,965,911.880–E.1,143,565.097



Existing P.O.T.
Skokie Boulevard
Sta. 149+02.56
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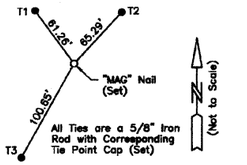

Existing P.O.T.
Old Orchard Road
Sta. 301+12.65
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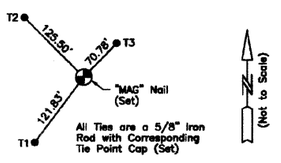
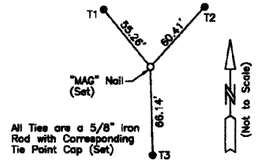
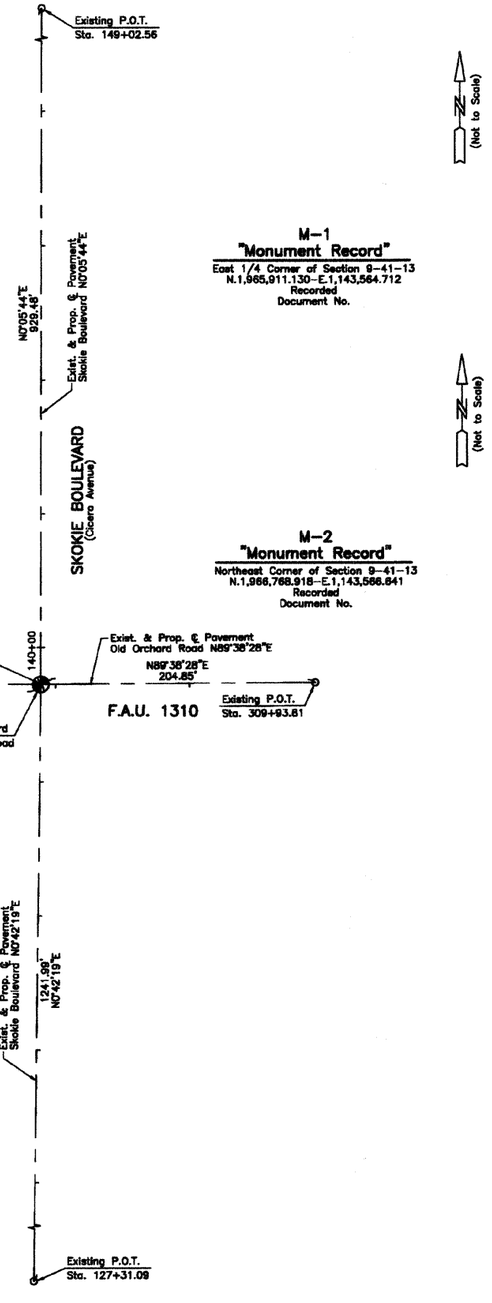


Existing & Proposed ℄ Skokie Boulevard
Existing & Proposed ℄ Old Orchard Road
Sta. 139+72.71 ℄ Skokie Bulevard
Sta. 307+88.96 ℄ Old Orchard Road
N.1,965,911.506–E.1,143,565.093



Existing P.O.T.
Old Orchard Road
Sta. 309+93.81
N.1,965,912.791–E.1,143,769.843



Intersection Detail
Not to Scale

LEGEND

- SECTION CORNER (9 | 10 | 16 | 15)
- QUARTER SECTION CORNER (16 — 15)
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' — MEASURED DIMENSION
- 129.32'(Comp.) ( ) — COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

N

0 50' 100'
SCALE: 1"=50'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1, T2, T3 — **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 — **THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ — **STAKING OF PROPOSED RIGHT OF WAY.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M — **STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ◒ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184–2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 9, TOWNSHIP 41N., RANGE 13E. AND SECTION 10, TOWNSHIP 41N., RANGE 13E., OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS_____ DAY OF_____20___A.D.

PRESIDENT

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35–2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Note: Surface Coordinates are Shown

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356–3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 1310 (OLD ORCHARD ROAD)

SECTION 00–00243–00–CH COOK COUNTY
PROJECT JOB NO. R–90–005–09
STATION 127+31.09 TO STATION 149+02.56 (Skokie Blvd.)
STATION 301+12.65 TO STATION 309+93.81 (Old Orchard Rd.)
SCALE: 1"=50' SHEET 1 OF 3

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE	REVISION	MADE BY

ROUTE F.A.U. 1310 (OLD ORCHARD ROAD) SECTION 00–00243–00–CH COUNTY COOK JOB NO. R–90–005–09 RECORDING: RECORDED ON AS DOCUMENT NO.

FILE NAME = g:\ch08\2045\road\sheets\2045-PLAT-102.sht	USER NAME = CECcomin	DESIGNED - CEC	REVISED -
		DRAWN - CEC	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED - DWB	REVISED -
	PLOT DATE = 6/3/2011	DATE - 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

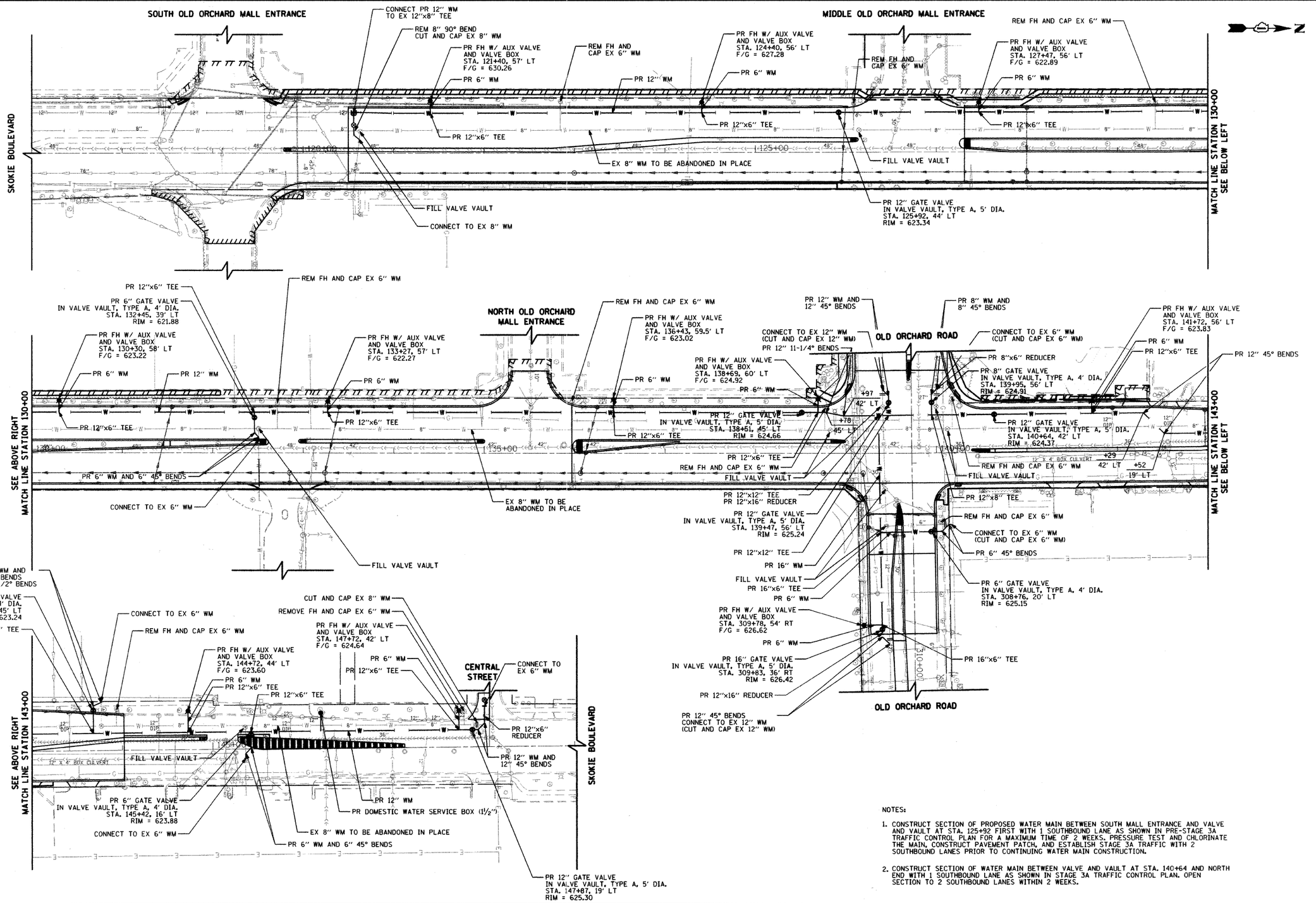
U.S. ROUTE 41 (SKOKIE BOULEVARD)
PLAT OF HIGHWAYS

SCALE: NONE | SHEET NO. #PLDE2#PLTSHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	52
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

PLAN / PROFILE — SURVEYED / DRAWN / ALIGNMENT CHECKED / GRADES CHECKED / NOTE BOOK / RT. OF WAY CHECKED / B.M. NOTED / NO. ____ / CROSS SECT. NOTED / STRUCTURE NOTED / NOTES CHKD — BY / DATE

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600



NOTES:

1. CONSTRUCT SECTION OF PROPOSED WATER MAIN BETWEEN SOUTH MALL ENTRANCE AND VALVE AND VAULT AT STA. 125+92 FIRST WITH 1 SOUTHBOUND LANE AS SHOWN IN PRE-STAGE 3A TRAFFIC CONTROL PLAN FOR A MAXIMUM TIME OF 2 WEEKS. PRESSURE TEST AND CHLORINATE THE MAIN, CONSTRUCT PAVEMENT PATCH, AND ESTABLISH STAGE 3A TRAFFIC WITH 2 SOUTHBOUND LANES PRIOR TO CONTINUING WATER MAIN CONSTRUCTION.

2. CONSTRUCT SECTION OF WATER MAIN BETWEEN VALVE AND VAULT AT STA. 140+64 AND NORTH END WITH 1 SOUTHBOUND LANE AS SHOWN IN STAGE 3A TRAFFIC CONTROL PLAN. OPEN SECTION TO 2 SOUTHBOUND LANES WITHIN 2 WEEKS.

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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		DRAWN AJP	REVISED -
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	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SKOKIE BOULEVARD (U.S. ROUTE 41)
WATER MAIN PLAN

SCALE: 1"=50' | SHEET NO. 1 OF 1 SHEETS | STA. 117+00 TO STA. 148+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	53
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

MILLING DEPTHS

STATION	MILL DEPTH LEFT (IN)	MILL DEPTH PGL LT (IN)	MILL DEPTH PGL RT (IN)	MILL DEPTH RIGHT (IN)
127+31	MATCH EXISTING			
128+00	3.5	3	3	3
128+50	1.5	1.5	1.5	1.5
129+00	1.5	1.5	1.5	1.5
129+50	1.5	1.5	1.5	1.5
130+00	1.5	1.5	1.5	1.5
130+50	1.5	1.5	1.5	1.5
131+00	1.5	1.5	1.5	PATCH
131+50	PATCH	1.5	1.5	PATCH
132+00	PATCH	1.5	1.5	PATCH
132+50	PATCH	1.5	1.5	PATCH
132+80	PATCH	1.5	1.5	PATCH
133+00	PATCH	1.5	1.5	3.5
133+50	PATCH	1.5	1.5	PATCH
134+00	PATCH	1.5	1.5	PATCH
134+50	1.5	1.5	1.5	PATCH
135+00	3	1.5	1.5	PATCH
135+50	3.5	1.5	1.5	PATCH
135+97	BEGIN RECONSTRUCTION			

NOTES:
1. MILLING PAID FOR AS HMA SURFACE COURSE REMOVAL, VARIABLE DEPTH

2. FULL DEPTH PATCHING IS IN AREAS OF WATER MAIN OR SEWER CONSTRUCTION. FULL DEPTH PATCHES INCLUDE REMOVAL OF HMA SURFACE, SO MILLING IS REQUIRED IN AREAS WITH PATCHING.

HMA LEVEL BINDER DEPTHS

STATION	LEVEL BINDER DEPTH LT (IN)	LEVEL BINDER DEPTH PGL LT (IN)	LEVEL BINDER DEPTH PGL RT (IN)	LEVEL BINDER DEPTH RT (IN)
127+31	MATCH EXISTING			
128+00	PATCH	1.8	1.4	0.8
128+50	0.0	0.0	0.0	0.0
129+00	0.0	0.0	0.0	0.0
129+50	0.0	0.0	0.0	0.0
130+00	0.0	0.0	0.0	0.0
130+50	0.0	0.0	0.0	0.0
131+00	0.0	0.0	0.0	PATCH
131+50	PATCH	0.0	0.0	PATCH
132+00	PATCH	0.0	0.0	PATCH
132+50	PATCH	0.0	2.3	PATCH
132+80	PATCH	0.0	0.0	PATCH
133+00	PATCH	0.0	0.0	0.9
133+50	PATCH	0.0	2.0	PATCH
134+00	PATCH	1.7	2.0	PATCH
134+50	1.0	0.0	0.0	PATCH
135+00	1.9	0.0	0.0	PATCH
135+50	1.3	0.0	0.0	PATCH
135+97		BEGIN RECONSTRUCTION		

HMA BINDER DEPTHS

STATION	BINDER DEPTH LEFT (IN)	BINDER DEPTH PGL LT (IN)	BINDER DEPTH PGL RT (IN)	BINDER DEPTH RIGHT (IN)
127+31	MATCH EXISTING			
128+00	PATCH	0.0	0.0	PATCH
128+50	4.0	5.0	3.1	2.6
129+00	7.0	7.8	5.6	6.2
129+50	8.4	7.8	6.3	7.4
130+00	8.0	7.3	6.0	6.3
130+50	7.2	6.7	5.0	5.2
131+00	5.9	5.8	3.9	PATCH
131+50	PATCH	4.9	3.0	PATCH
132+00	PATCH	4.0	2.4	PATCH
132+50	PATCH	3.5	0.0	PATCH
132+80	PATCH	3.5	3.8	PATCH
133+00	PATCH	2.3	4.3	0.0
133+50	PATCH	2.5	0.0	PATCH
134+00	PATCH	0.0	0.0	PATCH
134+50	0.0	2.5	3.3	PATCH
135+00	0.0	2.9	4.5	PATCH
135+50	0.0	5.1	4.6	PATCH
135+97	BEGIN RECONSTRUCTION			

NOTES:
1. MINIMUM BINDER DEPTH IS 2-1/4" (2.3")

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

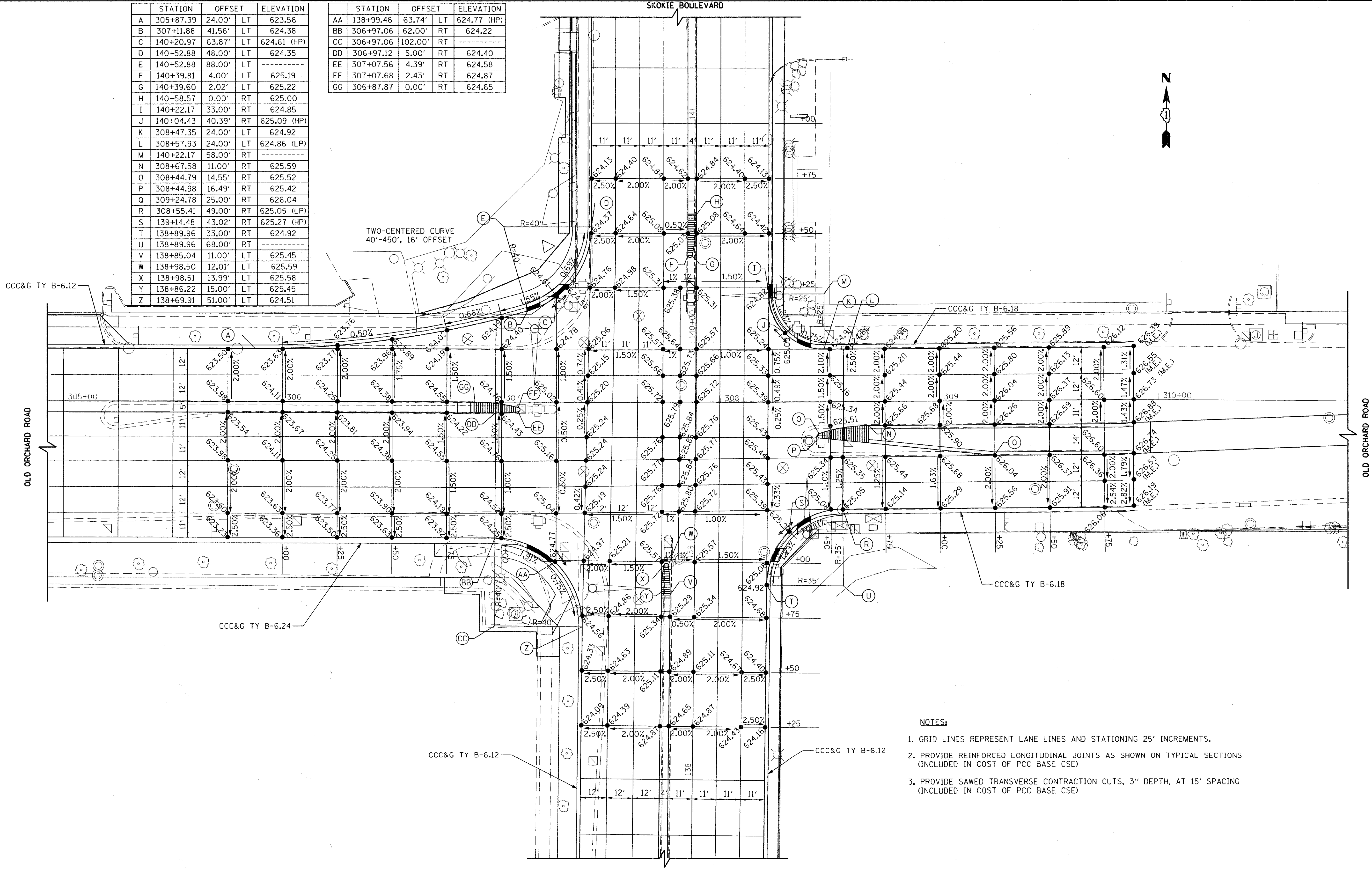
U.S. ROUTE 41 (SKOKIE BOULEVARD)
PAVING DETAILS

SCALE: NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	54
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

	STATION	OFFSET		ELEVATION
A	305+87.39	24.00′	LT	623.56
B	307+11.88	41.56′	LT	624.38
C	140+20.97	63.87′	LT	624.61 (HP)
D	140+52.88	48.00′	LT	624.35
E	140+52.88	88.00′	LT	----------
F	140+39.81	4.00′	LT	625.19
G	140+39.60	2.02′	LT	625.22
H	140+58.57	0.00′	RT	625.00
I	140+22.17	33.00′	RT	624.85
J	140+04.43	40.39′	RT	625.09 (HP)
K	308+47.35	24.00′	LT	624.92
L	308+57.93	24.00′	LT	624.86 (LP)
M	140+22.17	58.00′	RT	----------
N	308+67.58	11.00′	RT	625.59
O	308+44.79	14.55′	RT	625.52
P	308+44.98	16.49′	RT	625.42
Q	309+24.78	25.00′	RT	626.04
R	308+55.41	49.00′	RT	625.05 (LP)
S	139+14.48	43.02′	RT	625.27 (HP)
T	138+89.96	33.00′	RT	624.92
U	138+89.96	68.00′	RT	----------
V	138+85.04	11.00′	LT	625.45
W	138+98.50	12.01′	LT	625.59
X	138+98.51	13.99′	LT	625.58
Y	138+86.22	15.00′	LT	625.45
Z	138+69.91	51.00′	LT	624.51

	STATION	OFFSET		ELEVATION
AA	138+99.46	63.74′	LT	624.77 (HP)
BB	306+97.06	62.00′	RT	624.22
CC	306+97.06	102.00′	RT	----------
DD	306+97.12	5.00′	RT	624.40
EE	307+07.56	4.39′	RT	624.58
FF	307+07.68	2.43′	RT	624.87
GG	306+87.87	0.00′	RT	624.65



NOTES:

1. GRID LINES REPRESENT LANE LINES AND STATIONING 25′ INCREMENTS.
2. PROVIDE REINFORCED LONGITUDINAL JOINTS AS SHOWN ON TYPICAL SECTIONS (INCLUDED IN COST OF PCC BASE CSE)
3. PROVIDE SAWED TRANSVERSE CONTRACTION CUTS, 3″ DEPTH, AT 15′ SPACING (INCLUDED IN COST OF PCC BASE CSE)

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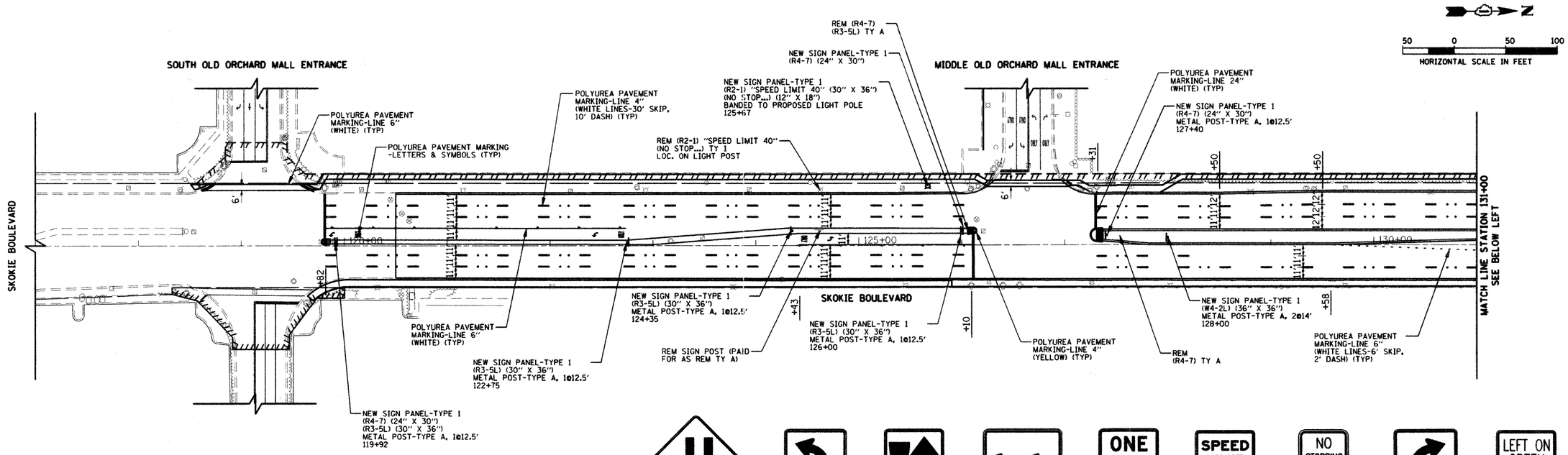
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

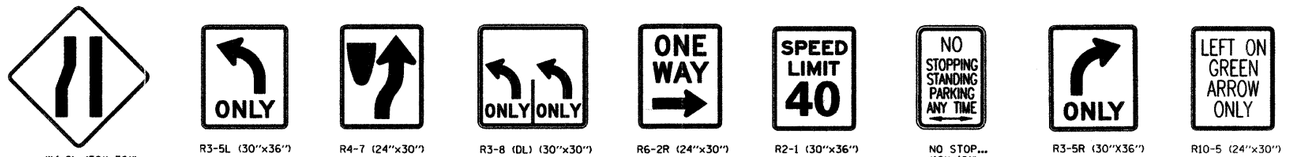
U.S. ROUTE 41 (SKOKIE BOULEVARD)
INTERSECTION DETAILS

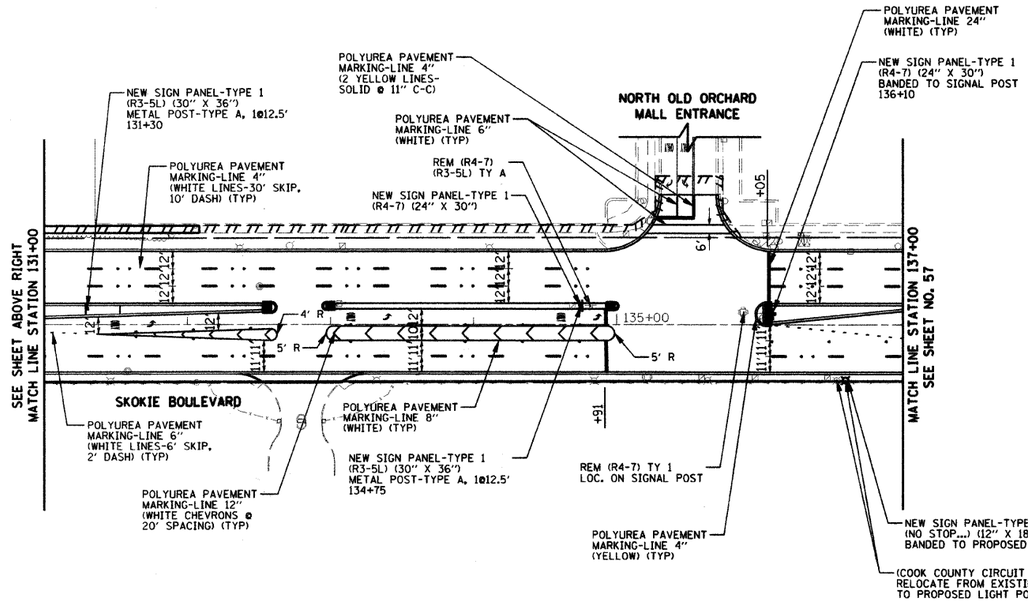
SCALE: 1″=20′ | SHEET NO. 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	55
		CONTRACT NO. 63566		

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT







SYMBOL LEGEND

SIGNING:

EXISTING SIGN

PROPOSED SIGN

STRIPING:

10' 30' 10' 30' 10' 30' 10'

4" DASH LINE

2' 6' 2' 6' 2'

6" DASH LINE

" " = 15.6 SQ. FT.

TURN ARROW AND ONLY

" ONLY " = 20.8 SQ. FT.

ONE-WAY RAISED REFLECTIVE PAVEMENT MARKER (AMBER)

ONE-WAY RAISED REFLECTIVE PAVEMENT MARKER (CRYSTAL)

TWO-WAY RAISED REFLECTIVE PAVEMENT MARKER (AMBER)

REL — RELOCATE SIGN PANEL ASSEMBLY AS INDICATED (RELOCATE TO PROPER OFFSET ACCORDING TO IDOT HWY STD 720006 FOR URBAN LOCATION)

REM — REMOVE SIGN PANEL ASSEMBLY AS INDICATED TYPE A OR B

NEW — INSTALL SIGN PANEL AND METAL POST AS INDICATED

SIGNAL POST

NOTES:

1. ALL SIDEWALKS AND CURB RAMPS SHALL BE CONSTRUCTED AS SHOWN ON THE PLAN AND PROFILE SHEETS.
2. ALL SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
3. ALL PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. ALL MARKINGS SHALL BE POLYUREA.
4. DIMENSIONS TO PAVEMENT MARKINGS SHALL BE TO THE CENTER OF A SINGLE LINE OR THE CENTER OF THE GAP FOR DOUBLE LINES UNLESS OTHERWISE INDICATED.
5. TURN LANE MARKINGS (ARROW AND "ONLY") TO BE INSTALLED AS SHOWN ON DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAILS.
6. EXISTING SIGNS ARE TO BE RELOCATED OR REPLACED AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE SIGNS. ALL SALVAGED SIGNS WHICH ARE IN GOOD SHAPE SHALL BE RETURNED TO THE PUBLIC WORKS DEPARTMENT OR AS INDICATED ON THE PLANS.
7. MEDIAN DIAGONAL LINE PAVEMENT MARKINGS TO BE INSTALLED AS SHOWN ON DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAILS
8. SEE IDOT STANDARDS 720001, 720006, 720011, AND 728001 FOR SIGN INSTALLATION AND MOUNTING DETAILS.
9. NEW SUPPORT AND HARDWARE SHALL BE USED FOR RELOCATED SIGNS SIMILAR TO EXISTING SUPPORTS. THE COST OF THE SUPPORTS SHALL BE INCLUDED IN THE ITEM RELOCATE SIGN PANEL ASSEMBLY TYPE A OR B.
10. SEE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS FOR PLACEMENT OF MARKERS.

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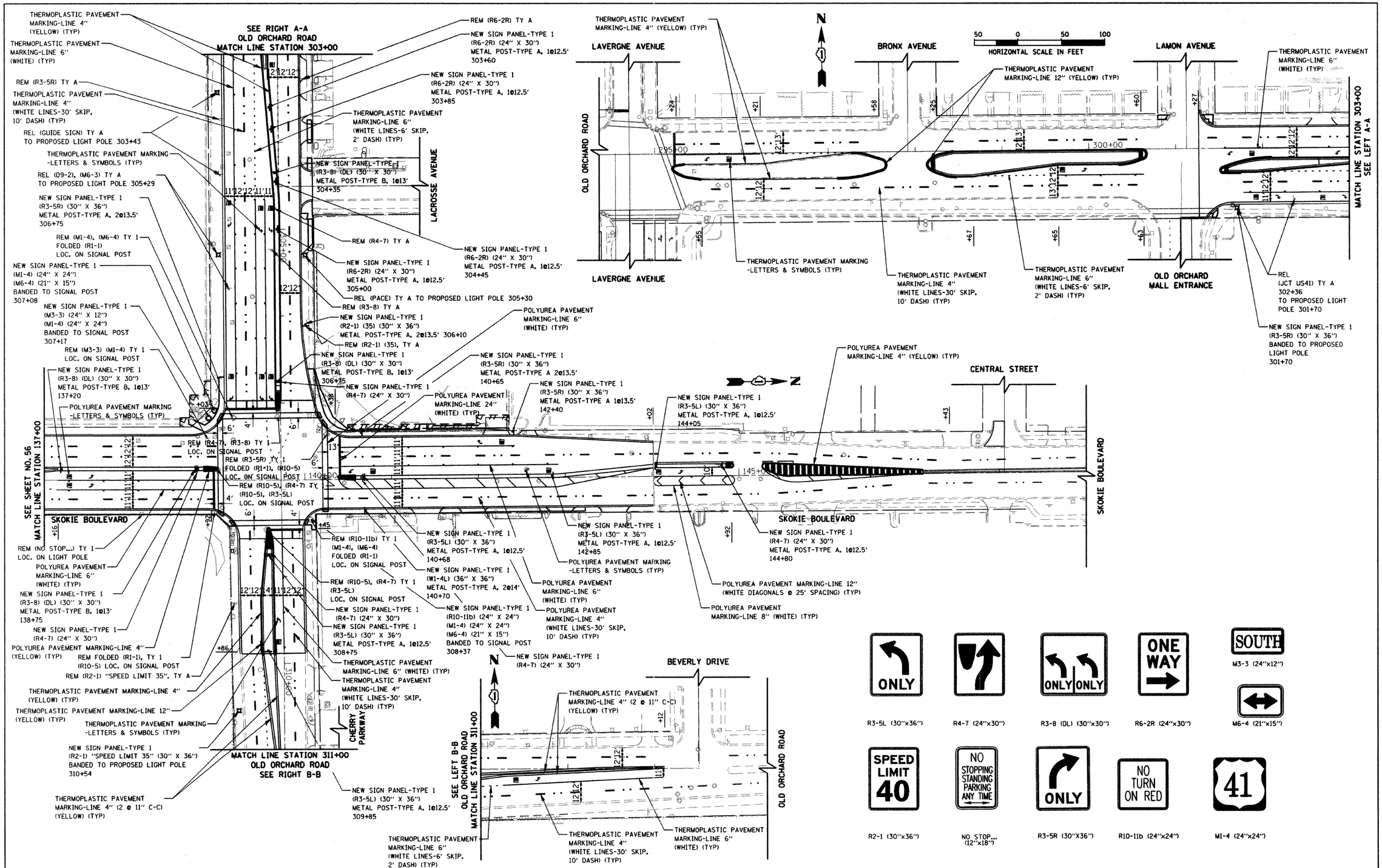
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SKOKIE BOULEVARD (U.S. ROUTE 41)
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1"=50' | SHEET NO. 1 OF 2 SHEETS | STA. 117+00 TO STA. 137+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	56
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

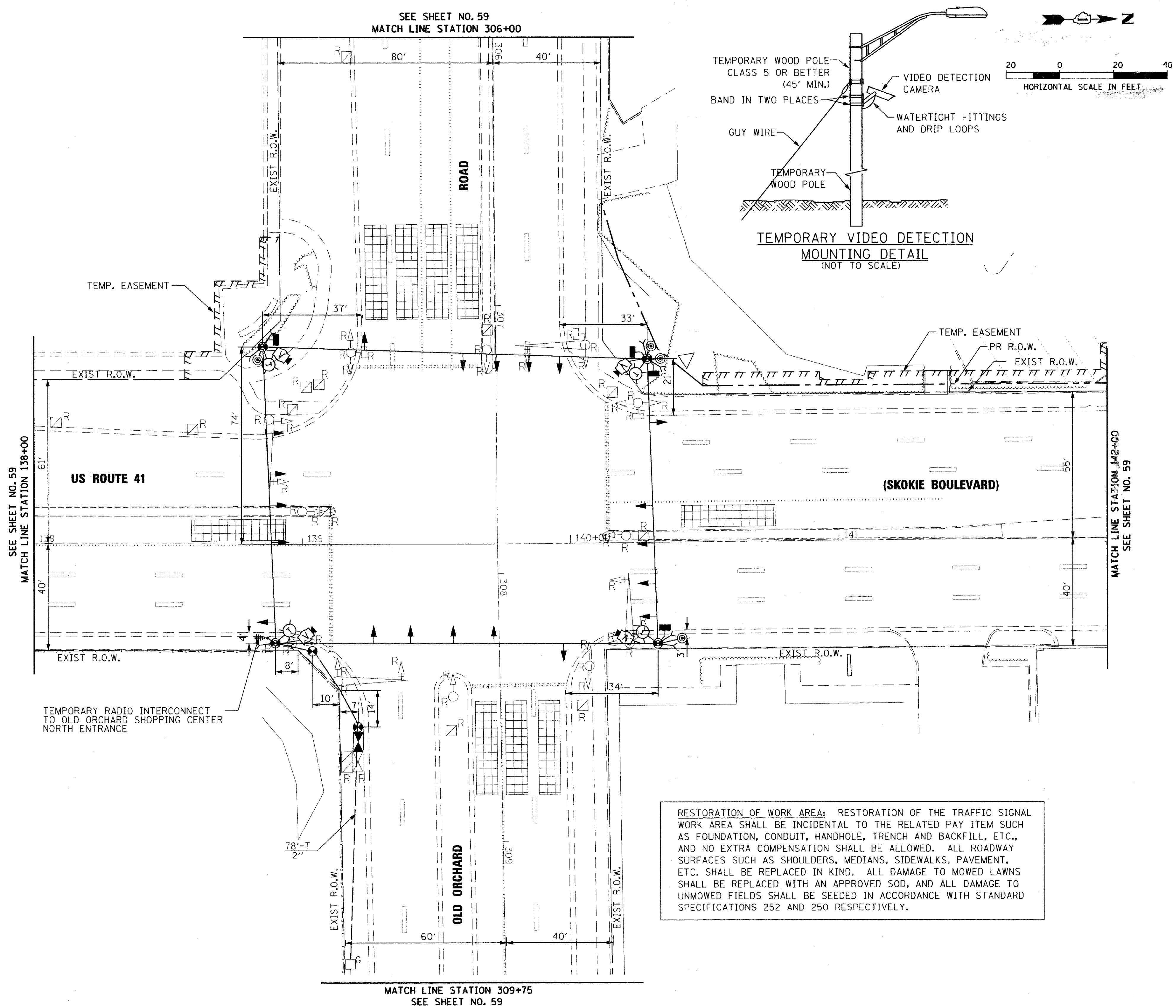
SKOKIE BOULEVARD (U.S. ROUTE 41) AND OLD ORCHARD ROAD
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	57
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES AND RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



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

REMOVAL NOTES

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.

- 4 EACH ALUMINUM COMBINATION MAST ARM ASSEMBLY AND POLE
- 8 EACH SIGNAL POLE
- 20 EACH SIGNAL HEADS
- 4 EACH PEDESTRIAN SIGNAL
- 4 EACH PEDESTRIAN PUSH BUTTON
- 1 EACH SERVICE INSTALLATION, POLE MOUNT
- 1 EACH CONTROLLER AND CABINET (COMPLETE)

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	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

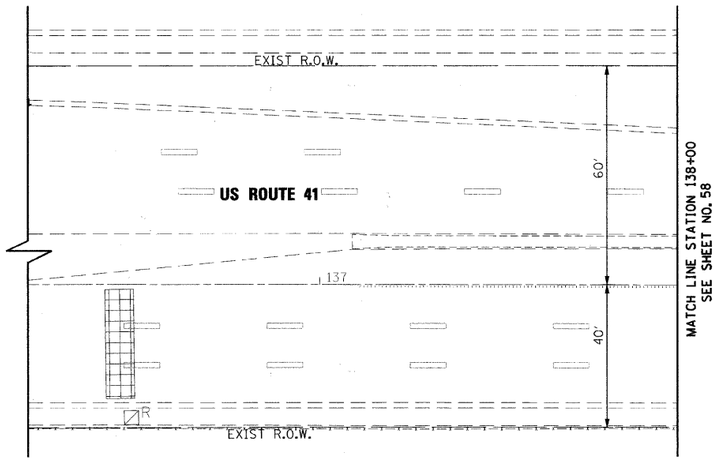
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

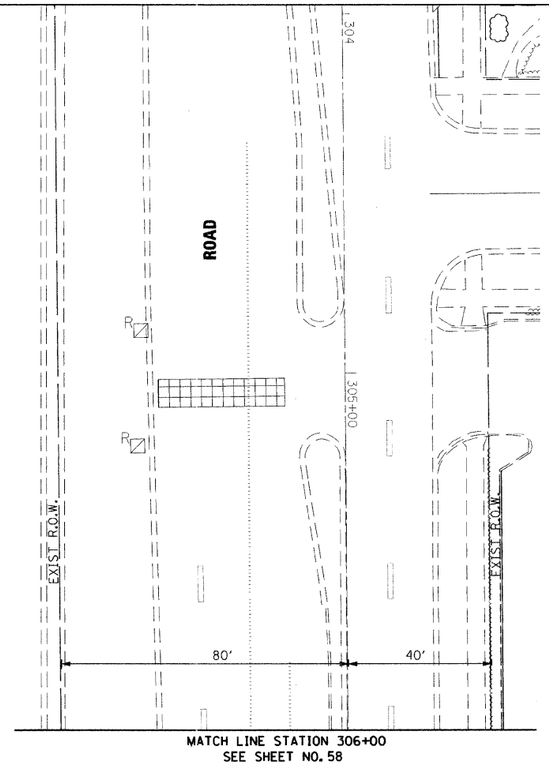
U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN (1 OF 2)

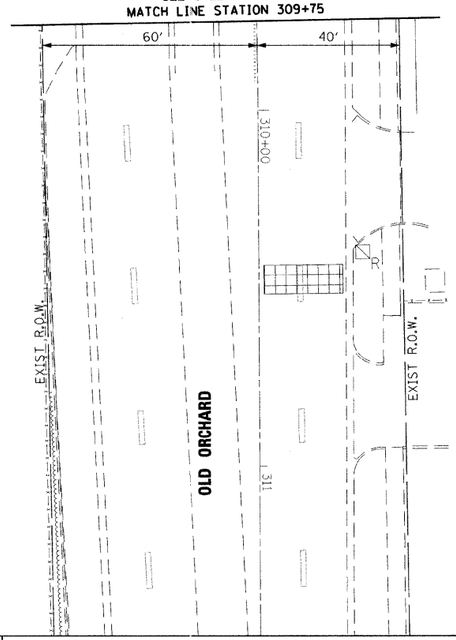
SCALE: 1"=20' | SHEET NO. 1 OF 33 SHEETS | STA. TO STA.

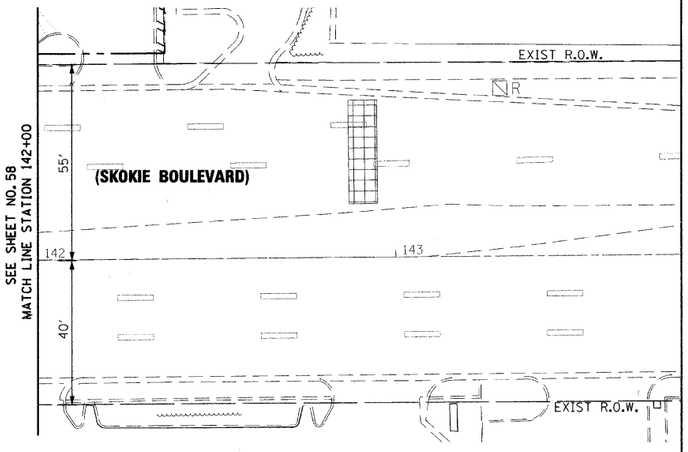
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	58
		CONTRACT NO. 63566		

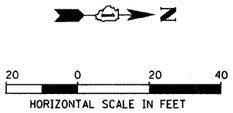
FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT











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

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	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

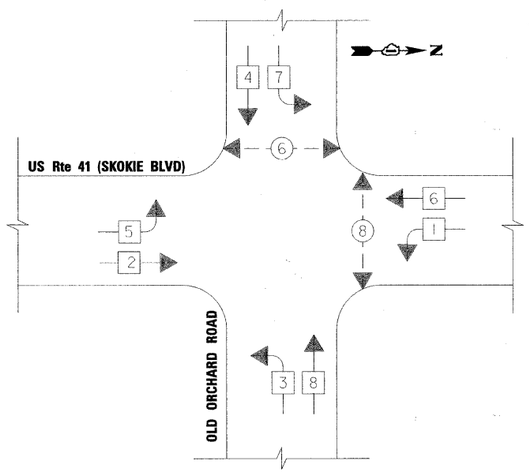
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN (2 OF 2)

SCALE: 1"=20' | SHEET NO. 2 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	59
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE



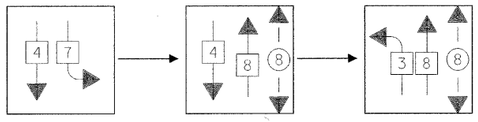
PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- ✳ — NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

FOR PHASES 3, 4, 7 & 8 IN THE PHASE DESIGNATION DIAGRAM SHOWN ABOVE, THE FOLLOWING PHASE SEQUENCE SHALL BE FOLLOWED:



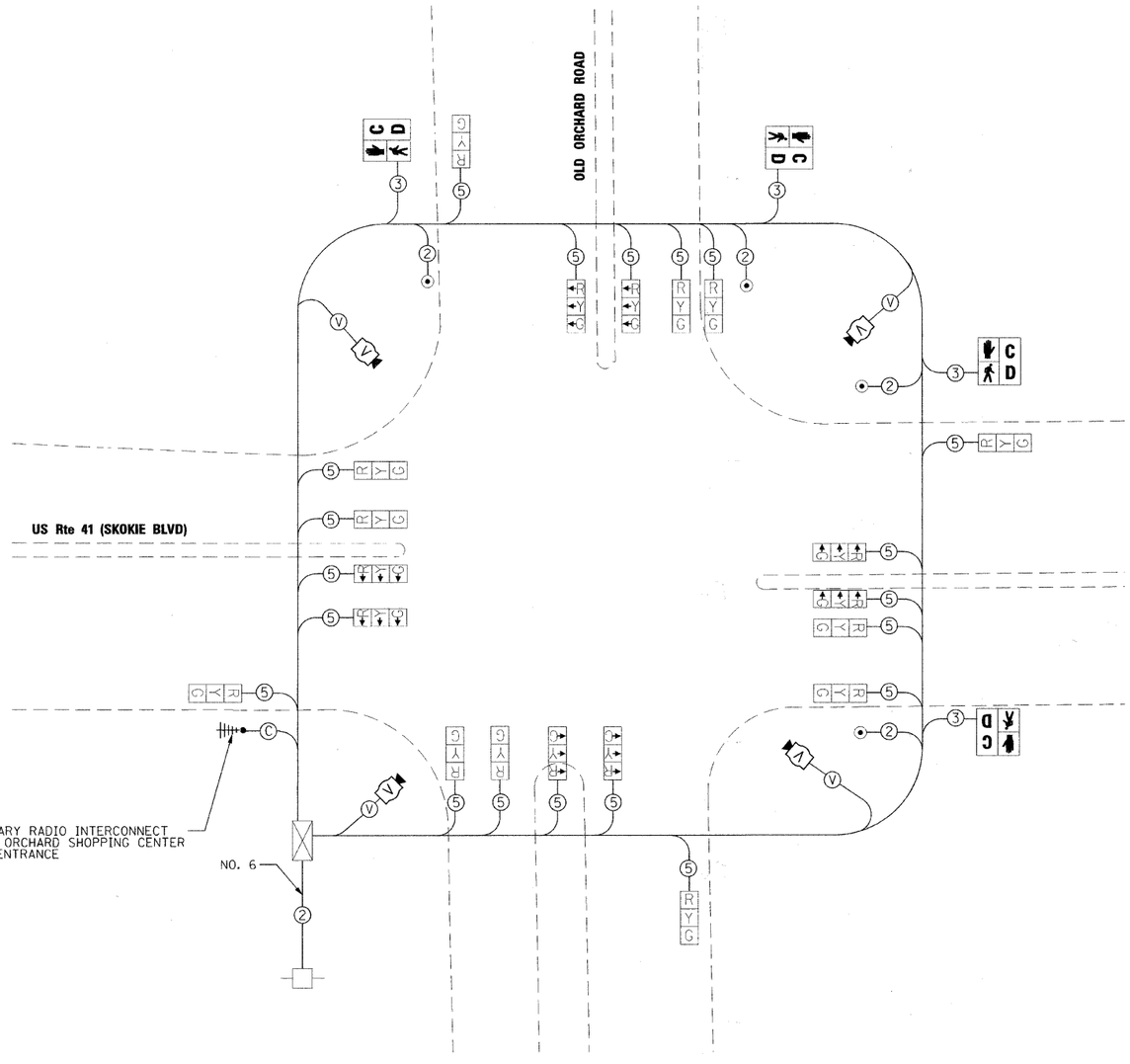
PHASES 1, 2, 5 & 6 SHALL FOLLOW THE STANDARD SEQUENCE IN ACCORDANCE WITH STATE STANDARD 857001.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW		135	12	0.10	
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	--
ENERGY COSTS TO:				TOTAL =	570

VILLAGE OF SKOKIE
9050 GROSS POINT ROAD
SKOKIE, IL 60077

ENERGY SUPPLY CONTACT: Mr. LARRY SHANKS
PHONE: (847) 816-5465
COMPANY: COMED

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



U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD TEMPORARY CABLE PLAN

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\c\08\0045\road\sheets\0045-TS-210_T-CAB ORC.dgn	USER NAME = CEComin	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
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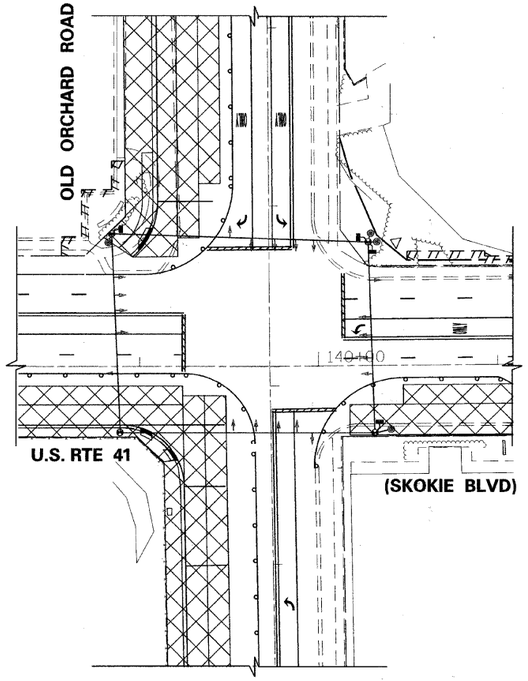
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

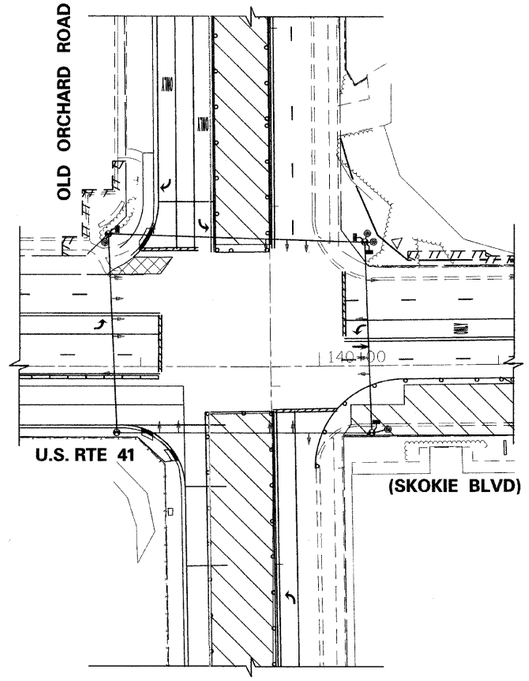
U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
TEMPORARY CABLE PLAN & PHASE DESIGNATION DIAGRAM

SCALE: N.T.S. | SHEET NO. 3 OF 33 SHEETS | STA. | TO STA.

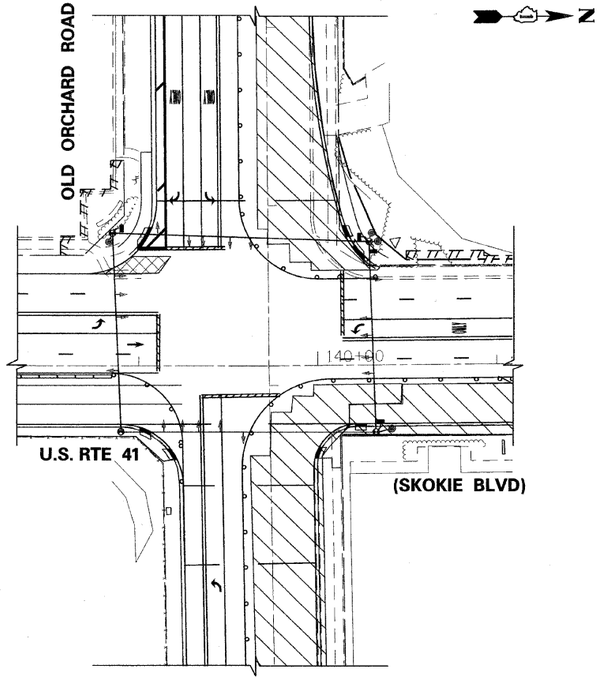
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	60
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



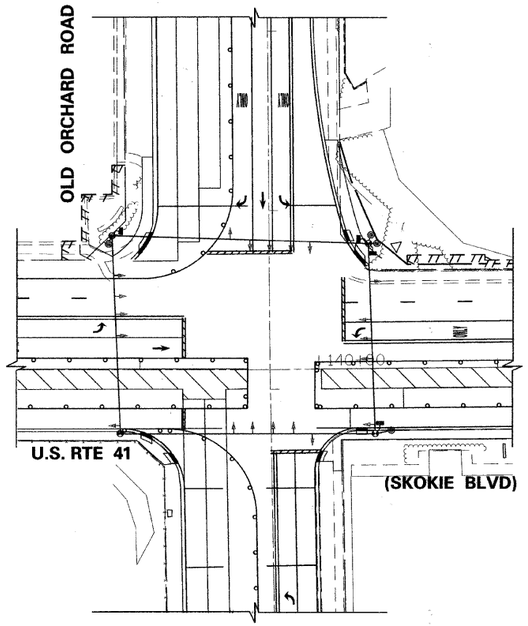
MAINTENANCE OF TRAFFIC STAGE 1A



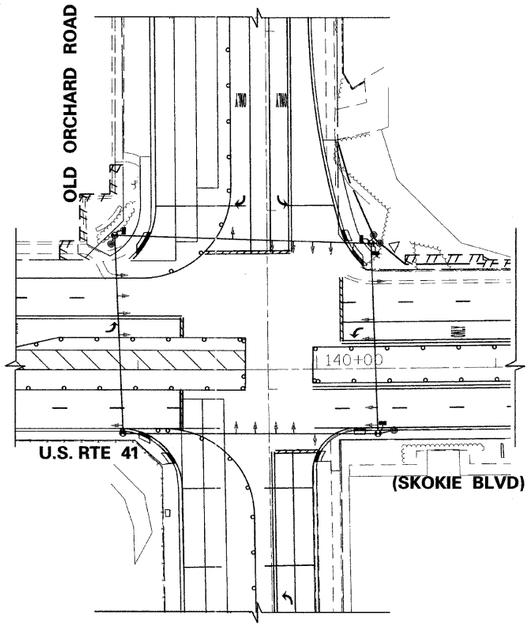
MAINTENANCE OF TRAFFIC STAGE 1B



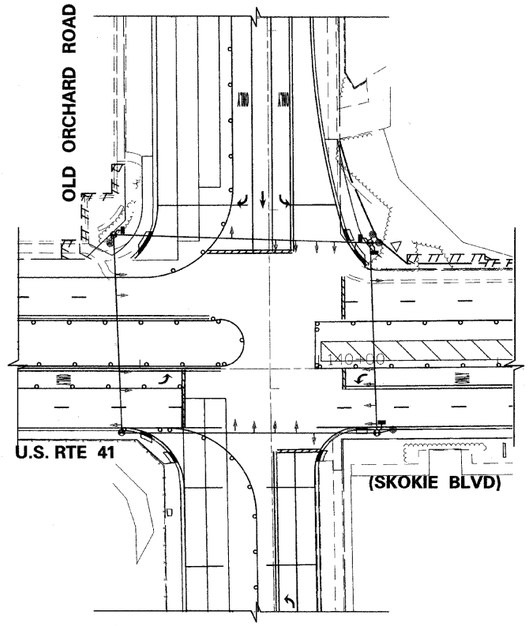
MAINTENANCE OF TRAFFIC STAGE 1C



MAINTENANCE OF TRAFFIC STAGE 2A



MAINTENANCE OF TRAFFIC STAGE 2B



MAINTENANCE OF TRAFFIC STAGE 2C

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1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 805-9600

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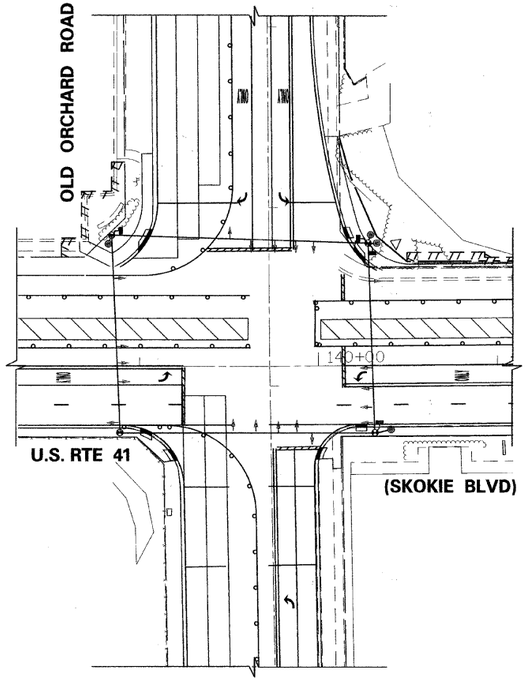
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

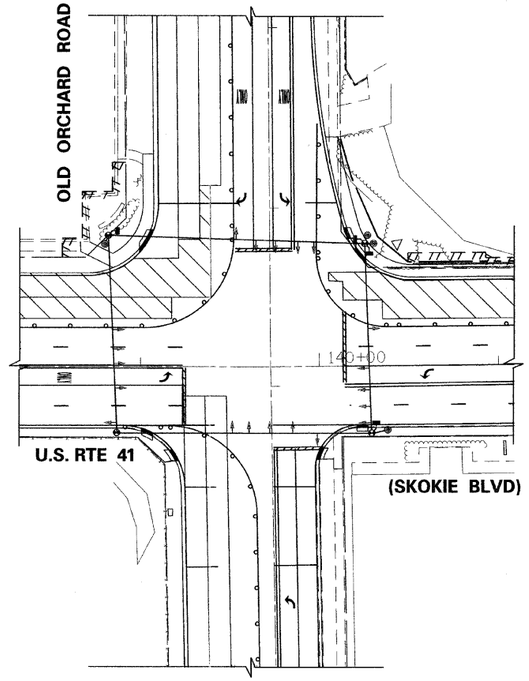
U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
M.O.T. STAGING PLAN (1 OF 3)

SCALE: N.T.S. | SHEET NO. 4 OF 33 SHEETS | STA. | TO STA.

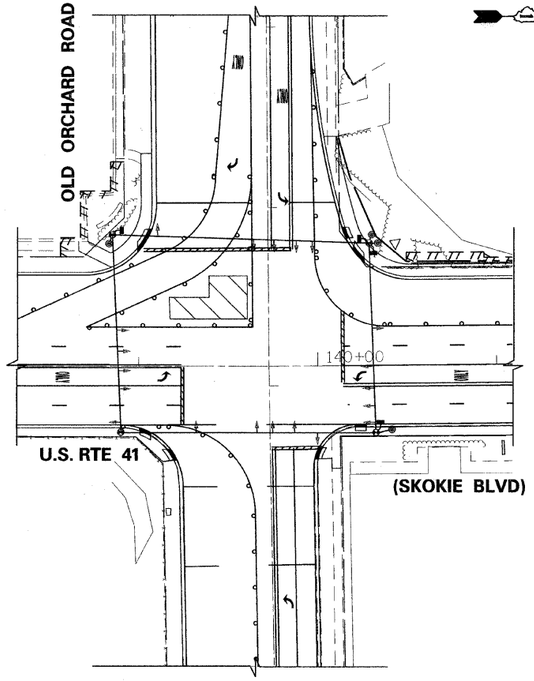
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	61
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



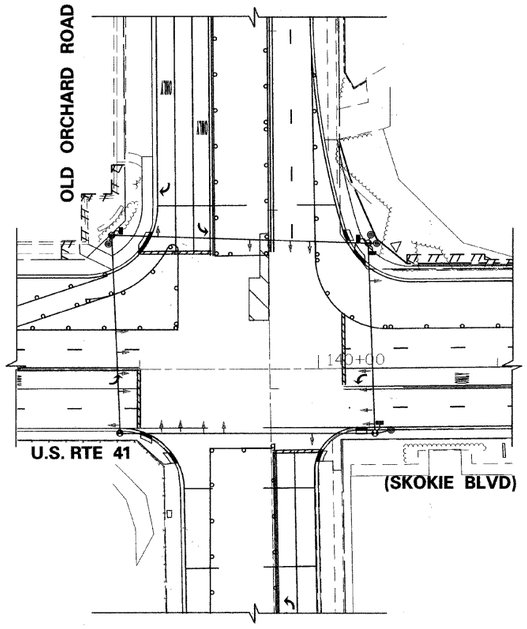
MAINTENANCE OF TRAFFIC STAGE 2D



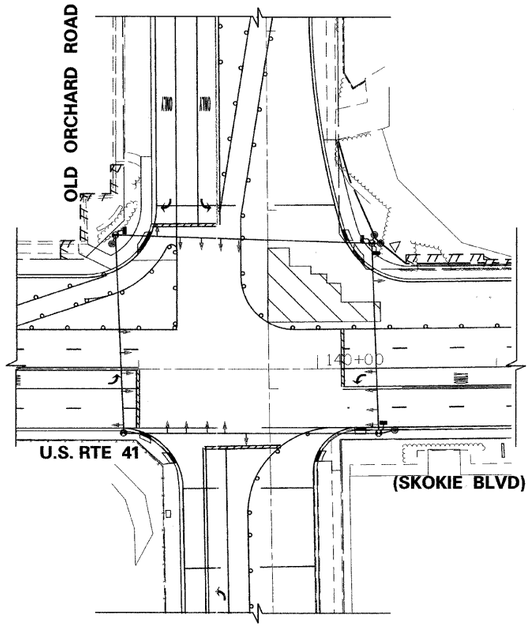
MAINTENANCE OF TRAFFIC STAGE 3A



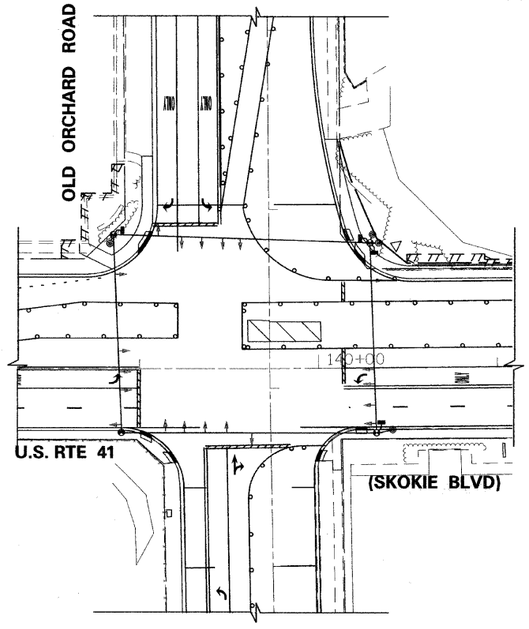
MAINTENANCE OF TRAFFIC STAGE 3B



MAINTENANCE OF TRAFFIC STAGE 3C



MAINTENANCE OF TRAFFIC STAGE 3D



MAINTENANCE OF TRAFFIC STAGE 4A

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9800

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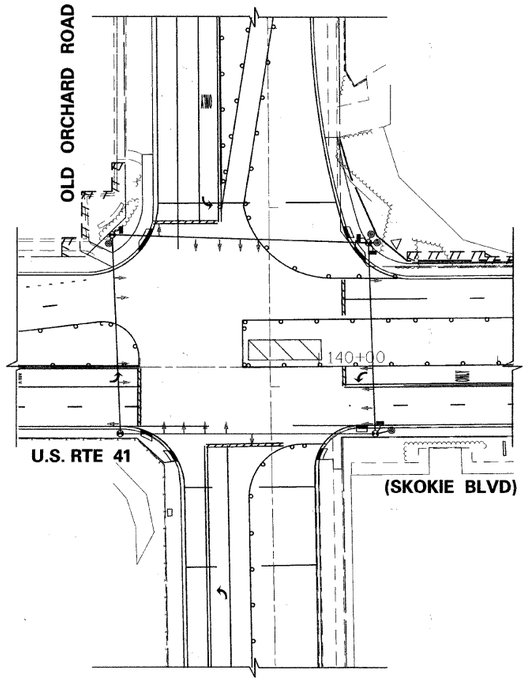
	PLOT SCALE = 40.000 ' / IN.	CHECKED KMM	REVISED -
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

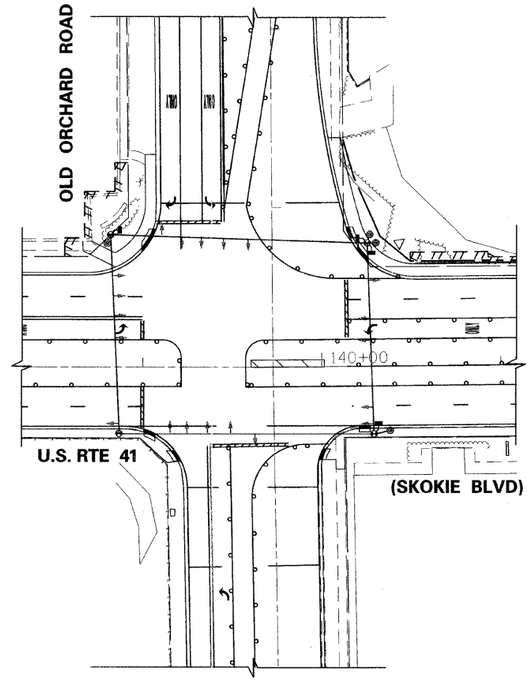
U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
M.O.T. STAGING PLAN (2 OF 3)

SCALE: N.T.S. | SHEET NO. 5 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	62
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

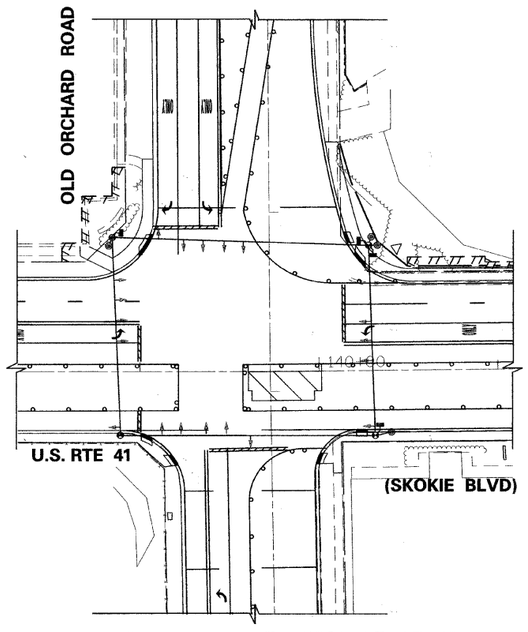


MAINTENANCE OF TRAFFIC STAGE 4B

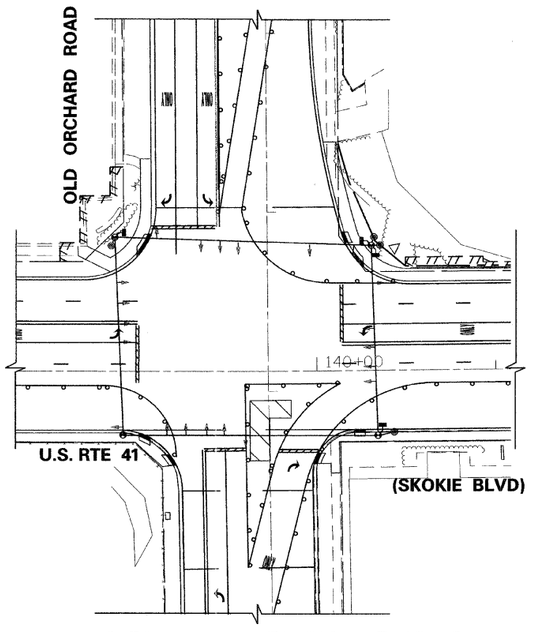


MAINTENANCE OF TRAFFIC STAGE 4C

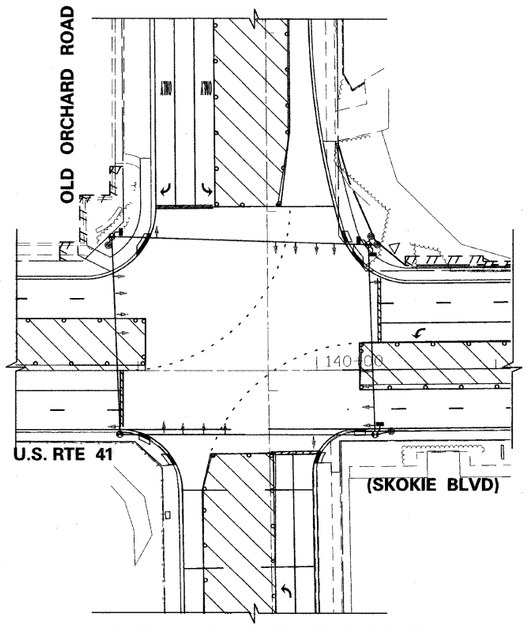
N



MAINTENANCE OF TRAFFIC STAGE 4D



MAINTENANCE OF TRAFFIC STAGE 4E



MAINTENANCE OF TRAFFIC STAGE 5

Tran Systems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9800

FILE NAME = g:\ch2m\0045\road\sheets\0045-TS-2018_STAG ORC.SHT	USER NAME = CEComin	DESIGNED FA	REVISED -
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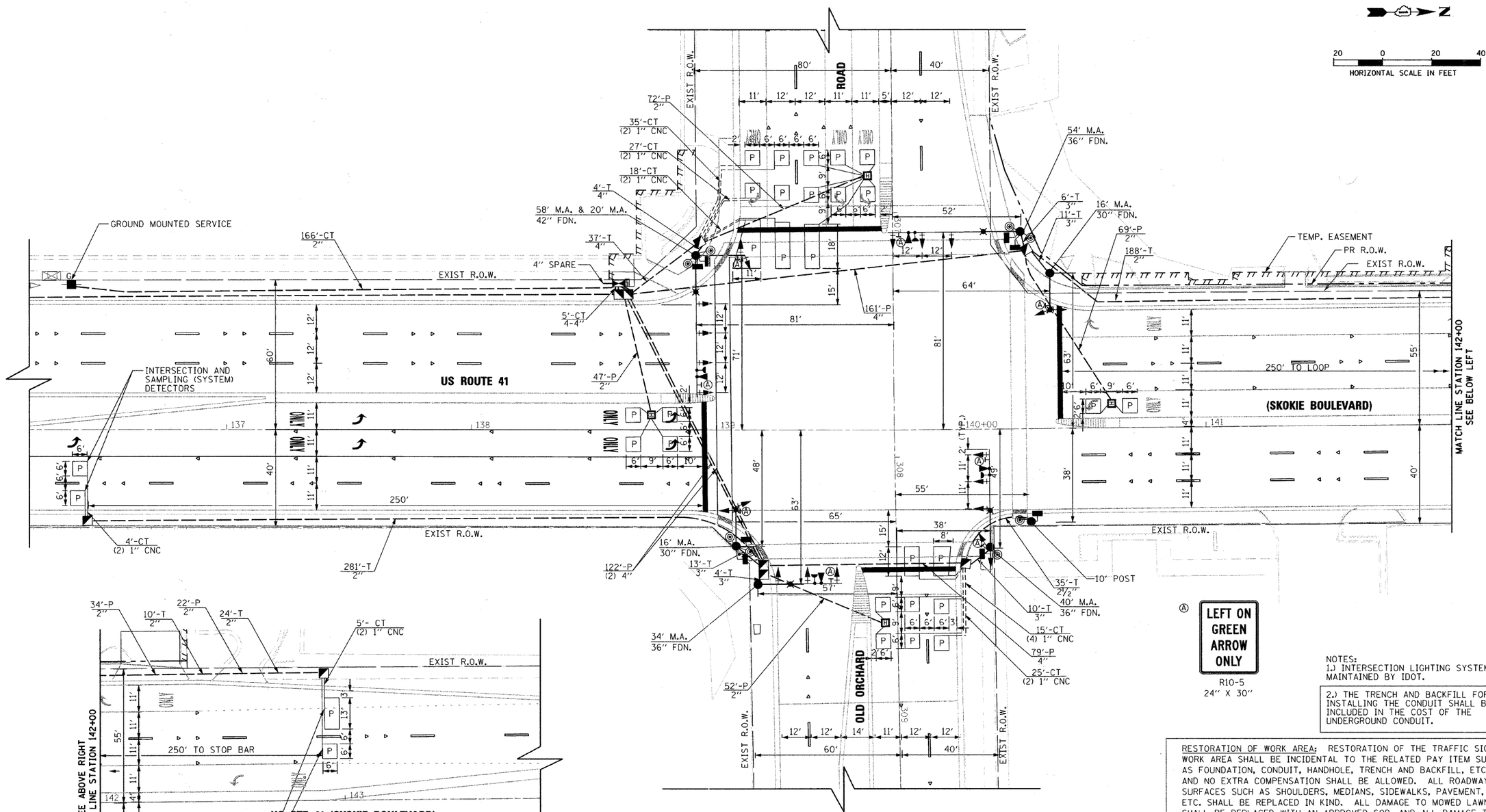
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
M.O.T. STAGING PLAN (3 OF 3)

SCALE: N.T.S. | SHEET NO. 6 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	63
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



NOTES:
1.) INTERSECTION LIGHTING SYSTEM MAINTAINED BY IDOT.

2.) THE TRENCH AND BACKFILL FOR INSTALLING THE CONDUIT SHALL BE INCLUDED IN THE COST OF THE UNDERGROUND CONDUIT.

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

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

FOR ROADWAY LIGHTING SEE LIGHTING PLAN SHEETS 91 THROUGH 102.

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\ch88\i8045\road\sheets\i8045-TS-212_TSI ORCI.sht	USER NAME = GEComin	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED KMM	REVISED -
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

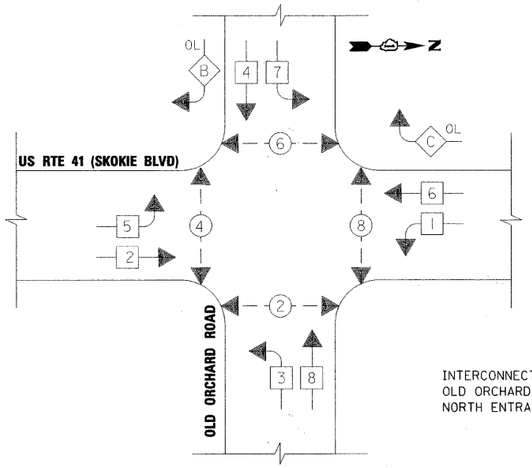
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
TRAFFIC SIGNAL INSTALLATION PLAN

SCALE: 1"=20' | SHEET NO. 7 OF 33 SHEETS | STA. | TO STA.

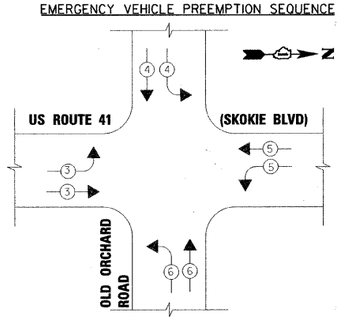
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	64
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

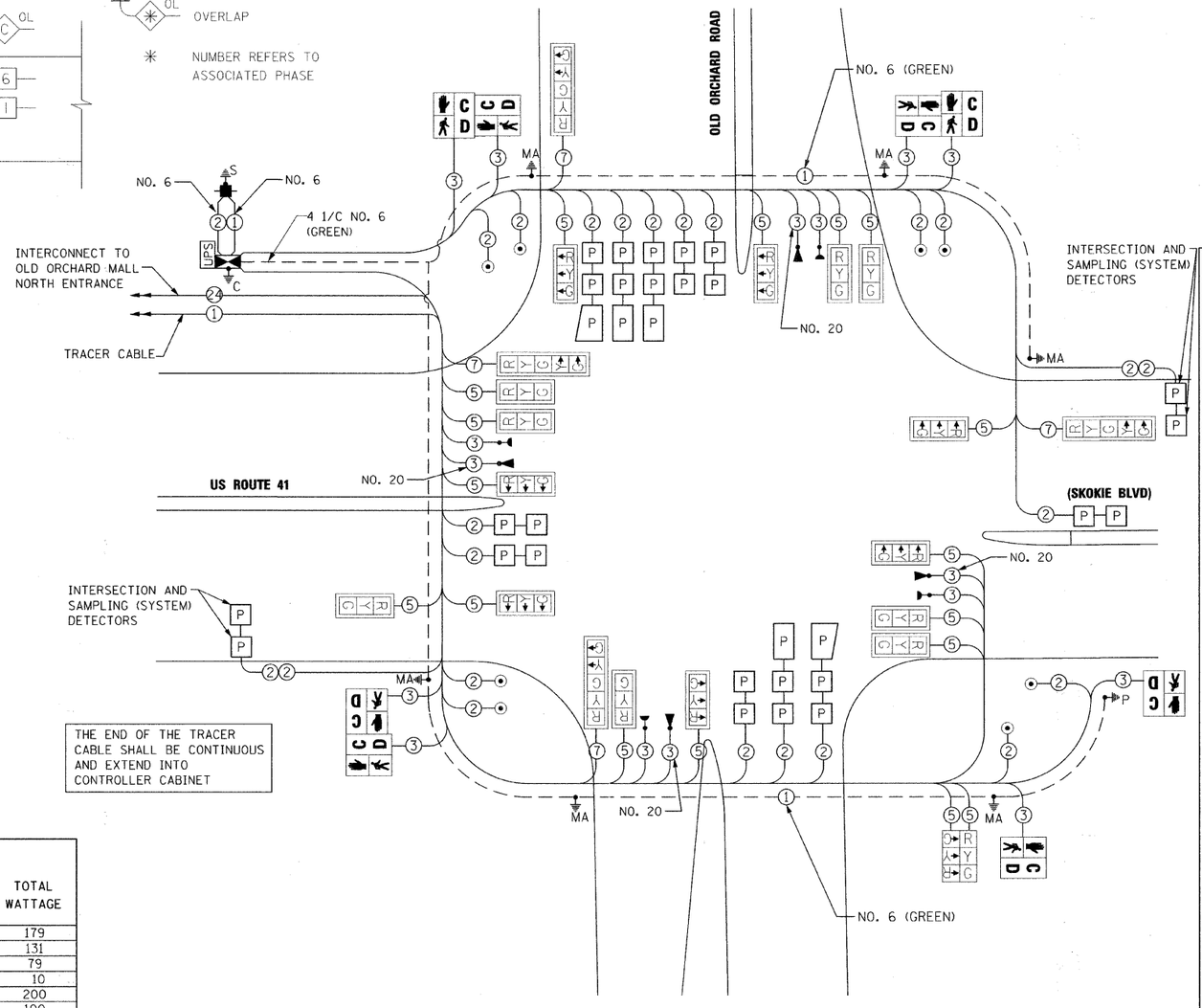


PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTORS	3	4	5	6
MOVEMENT				

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- ✳ — NUMBER REFERS TO ASSOCIATED PHASE

NOT TO SCALE



CABLE PLAN

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO CONTROLLER CABINET

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

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	21	135	17	0.50	179
(YELLOW)	21	135	25	0.25	131
(GREEN)	21	135	15	0.25	79
ARROW	8	135	12	0.10	10
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	--
ENERGY COSTS TO:				TOTAL =	699

VILLAGE OF SKOKIE
9050 GROSS POINT ROAD
SKOKIE, IL 60077

ENERGY SUPPLY CONTACT: MR. LARRY SHANKS
PHONE: (847) 816-5465
COMPANY: COMED

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	40
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	965
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	35
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	545
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,548
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,501
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,868
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	666
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3,524
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	185
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	769
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 58 FT. AND 20 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	19
INDUCTIVE LOOP DETECTOR	EACH	15
PREFORMED DETECTOR LOOP	FOOT	1,160
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	18
REMOVE EXISTING CONCRETE FOUNDATION	EACH	15
FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	953
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g\ch08\0845\road\sheets\0845-TS-214_C08_08C.sht	USER NAME = CEComm	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED KMM	REVISED -
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
CABLE PLAN, PHASE DESIGNATION DIAGRAM, & SCHEDULE OF QUANTITES.

SCALE: N.T.S. | SHEET NO. 8 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	65
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES, FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1. INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES AND RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

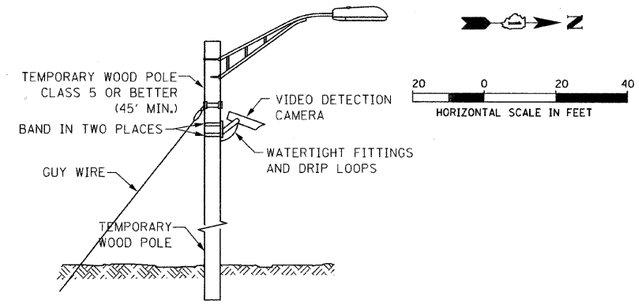
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

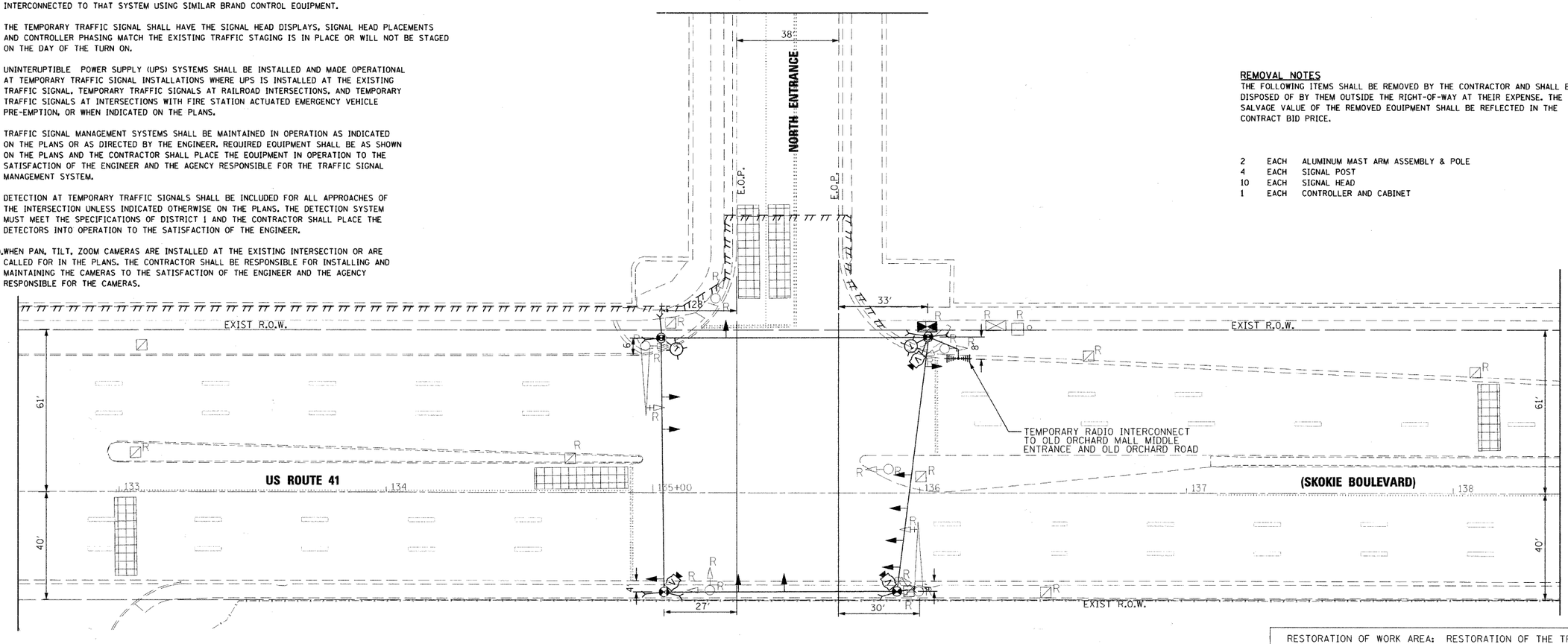
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)



REMOVAL NOTES

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.

2	EACH	ALUMINUM MAST ARM ASSEMBLY & POLE
4	EACH	SIGNAL POST
10	EACH	SIGNAL HEAD
1	EACH	CONTROLLER AND CABINET

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

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

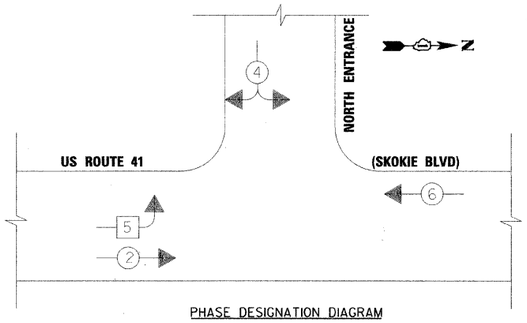
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND NORTH ENTRANCE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN

SCALE: 1"=20' | SHEET NO. 9 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	66
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

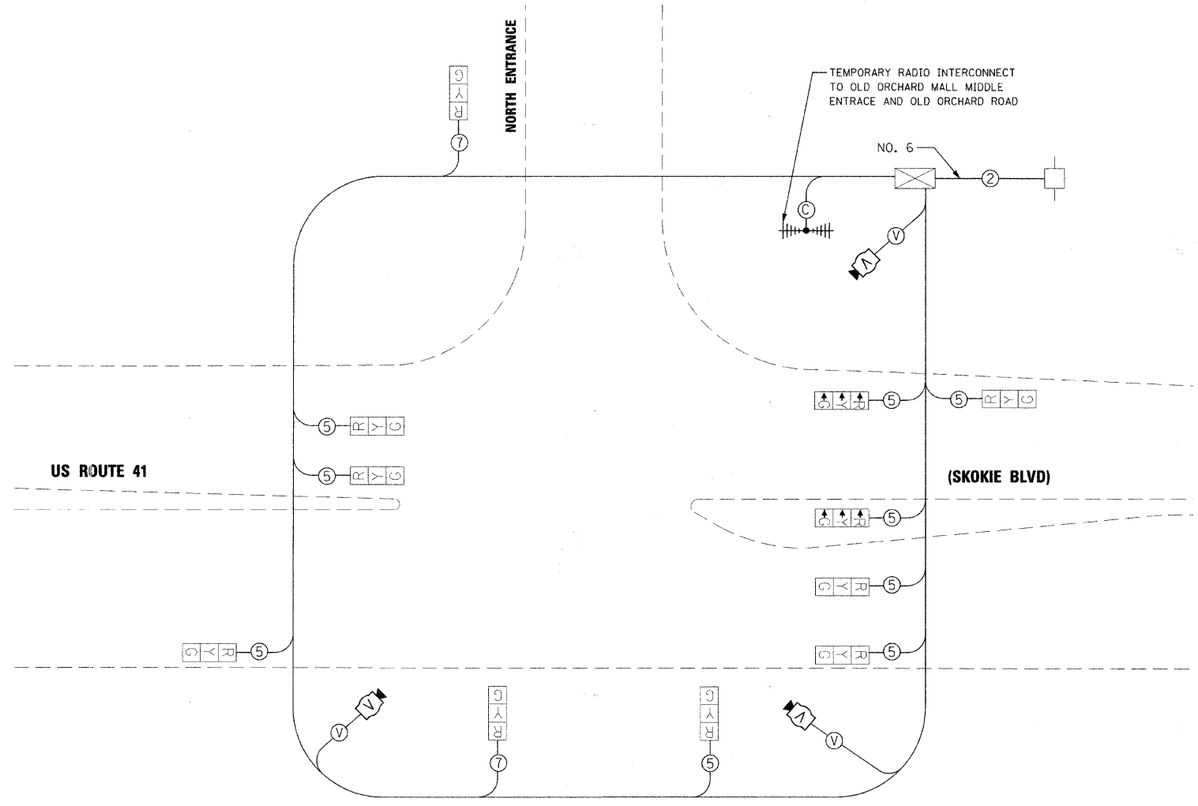
TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL OVERLAP
- ✳ NUMBER REFERS TO ASSOCIATED PHASE



U.S. ROUTE 41 (SKOKIE BOULEVARD) AND NORTH ENTRANCE TEMPORARY CABLE PLAN

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	11	135	17	0.50	94
(YELLOW)	11	135	25	0.25	69
(GREEN)	11	135	15	0.25	41
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	--
ENERGY COSTS TO:				TOTAL =	304

VILLAGE OF SKOKIE
9050 GROSS POINT ROAD
SKOKIE, IL 60077

ENERGY SUPPLY CONTACT: Mr. LARRY SHANKS
PHONE: (847) 816-5465
COMPANY: COMED

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

Trans Systems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\ch08\0845\road\sheets\845-TS-216.T-CAB NE.sht	USER NAME = CECamin	DESIGNED FA	REVISED -
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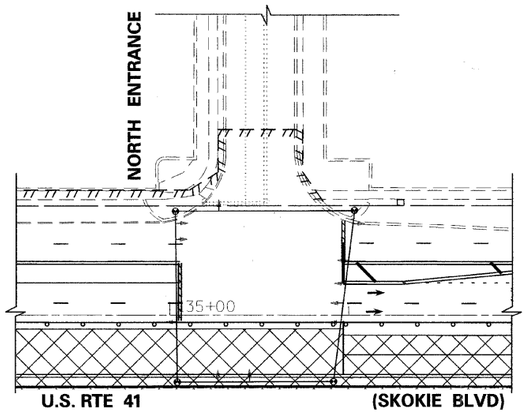
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

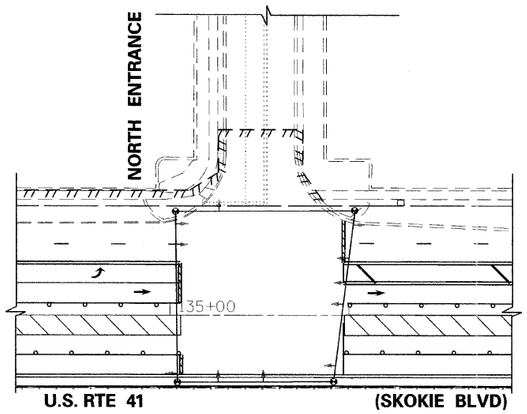
U.S. ROUTE 41 (SKOKIE BOULEVARD) AND NORTH ENTRANCE TEMPORARY CABLE PLAN & PHASE DESIGNATION DIAGRAM

SCALE: N.T.S. | SHEET NO. 10 OF 33 SHEETS | STA. | TO STA.

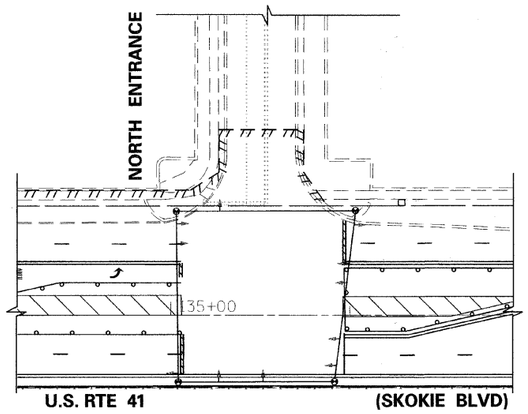
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	67
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



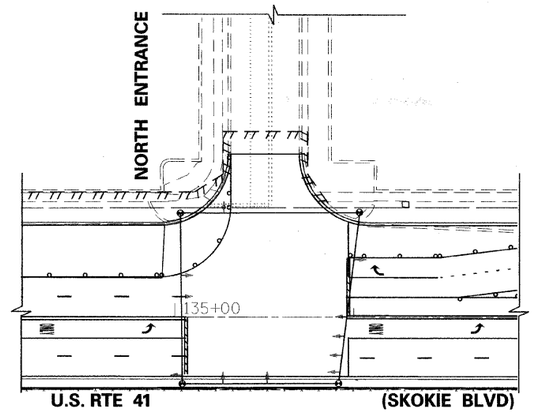
MAINTENANCE OF TRAFFIC STAGE 1A, 1B, 1C & 4E



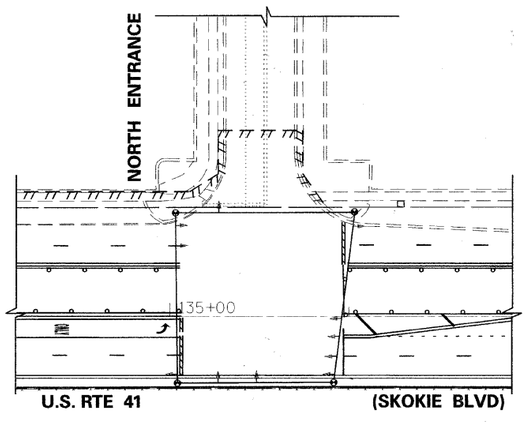
MAINTENANCE OF TRAFFIC STAGE 2A & 4D



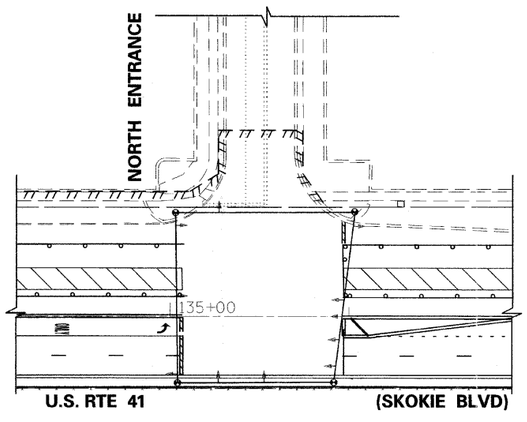
MAINTENANCE OF TRAFFIC STAGE 2B & 4C



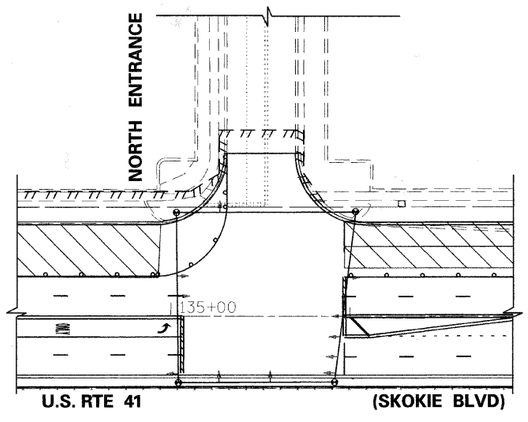
MAINTENANCE OF TRAFFIC STAGE 4A & 4B



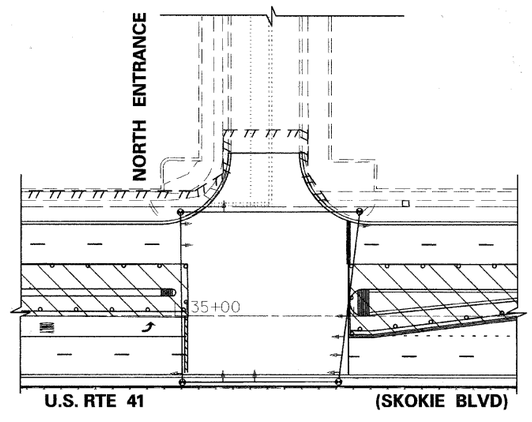
MAINTENANCE OF TRAFFIC STAGE 2C



MAINTENANCE OF TRAFFIC STAGE 2D



MAINTENANCE OF TRAFFIC STAGE 3A, 3B, 3C & 3D



MAINTENANCE OF TRAFFIC STAGE 5

Tran Systems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\ch2M\IDH5\road\sheets\2M5-TS-217_STAG NE.sht	USER NAME = CEComan	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
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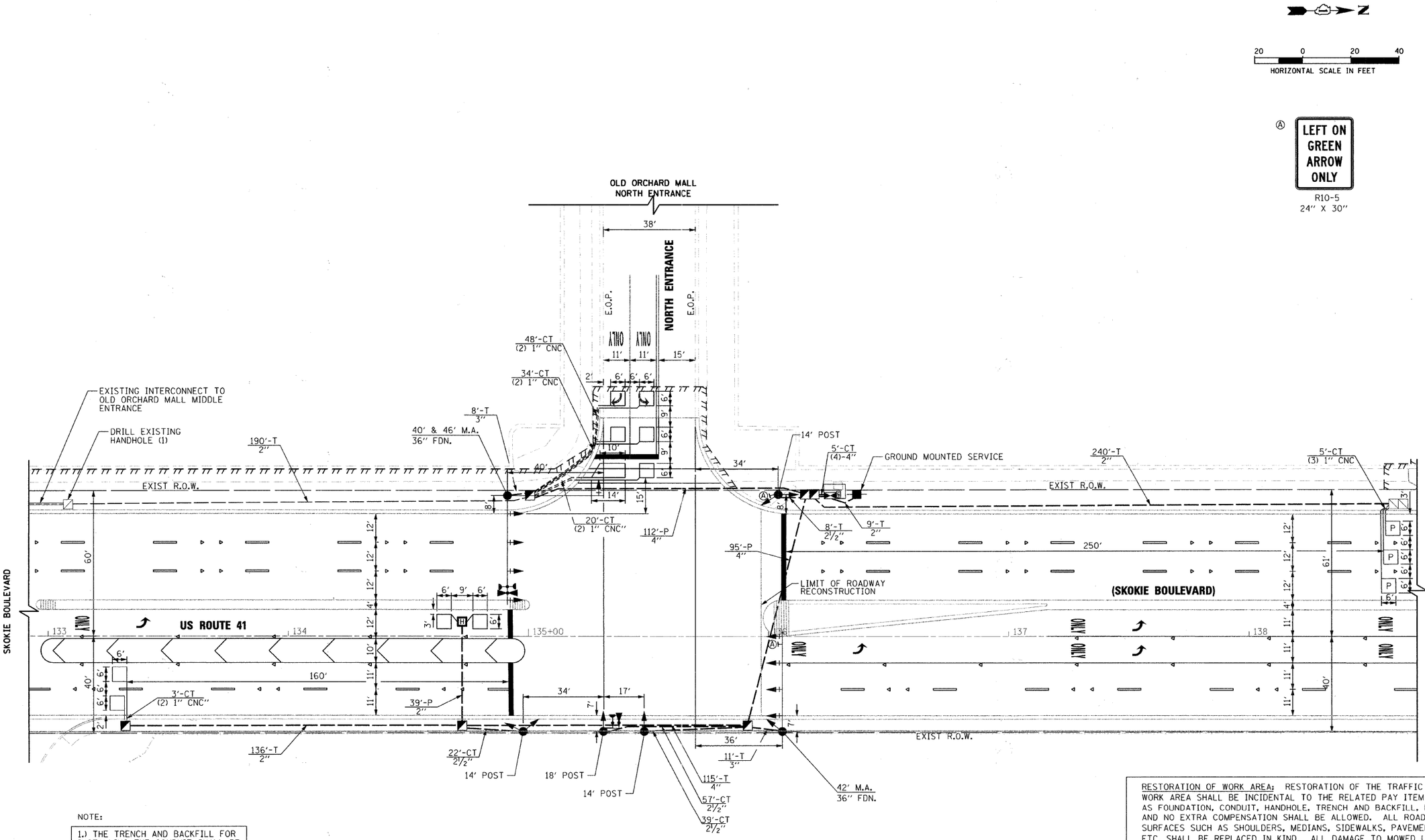
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND NORTH ENTRANCE
M.O.T. STAGING PLAN

SCALE: N.T.S. | SHEET NO. 11 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	68
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



NOTE:

1.) THE TRENCH AND BACKFILL FOR INSTALLING THE CONDUIT SHALL BE INCLUDED IN THE COST OF THE UNDERGROUND CONDUIT.

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

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

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

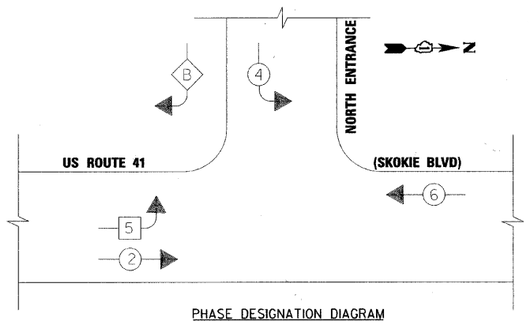
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND NORTH ENTRANCE
TRAFFIC SIGNAL INSTALLATION PLAN

SCALE 1"=20' | SHEET NO 9 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	69
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

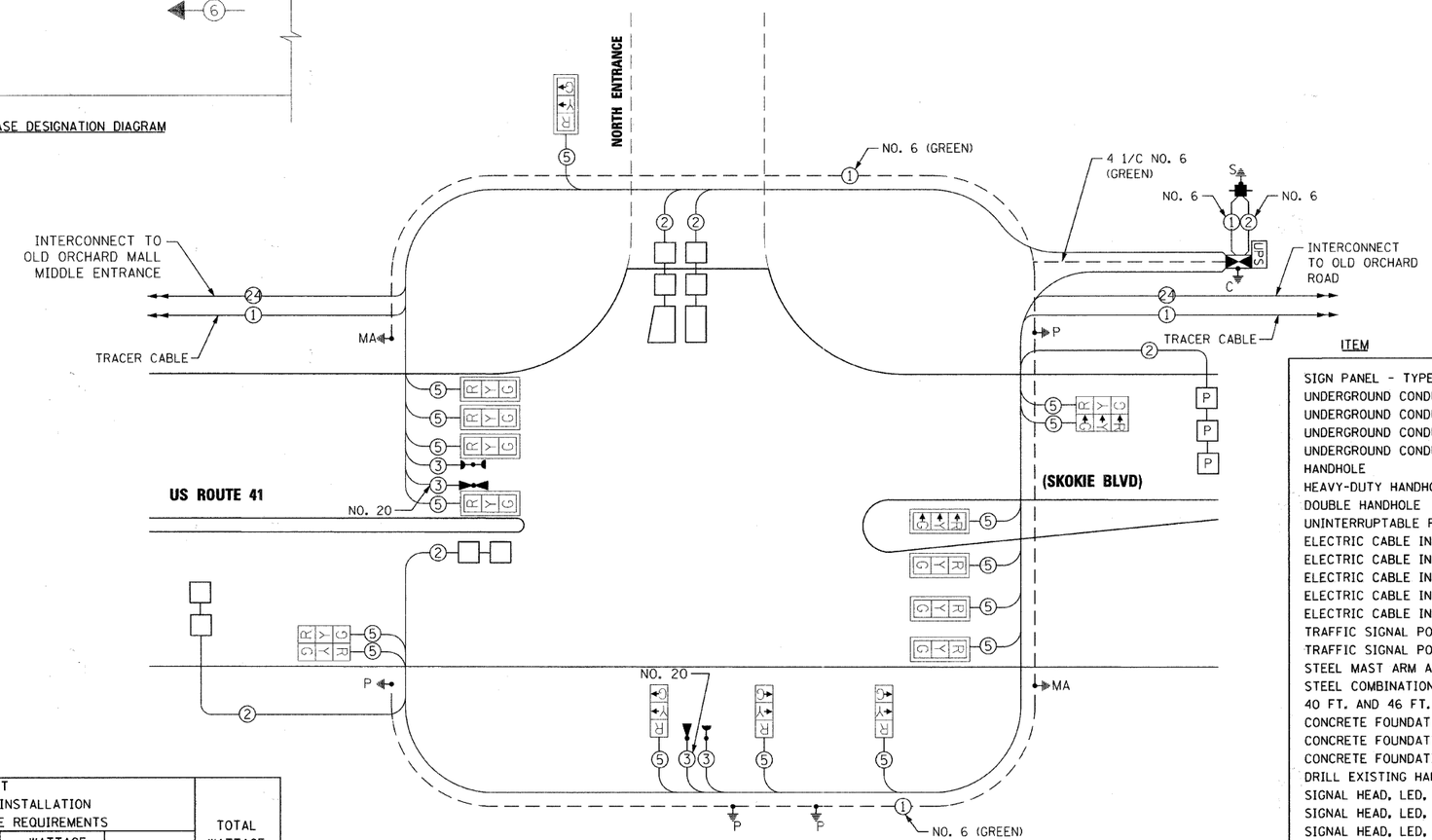
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL OVERLAP
- NUMBER REFERS TO ASSOCIATED PHASE



U.S. ROUTE 41 (SKOKIE BOULEVARD) AND NORTH ENTRANCE CABLE PLAN

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	--
ENERGY COSTS TO:				TOTAL =	396

VILLAGE OF SKOKIE
9050 GROSS POINT ROAD
SKOKIE, IL 60077

ENERGY SUPPLY CONTACT: Mr. LARRY SHANKS
PHONE: (847) 816-5465
COMPANY: COMED

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

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	10
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	614
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	126
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	19
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	342
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	398
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,955
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,237
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	28
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	559
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	27
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	348
PREFORMED DETECTOR LOOP	FOOT	117
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	398
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

Tran Systems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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PLOT SCALE = 20.000 ' / IN.
PLOT DATE = 10/26/2011

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DRAWN	FA	REVISED -
CHECKED	KMM	REVISED -
DATE	10/26/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND NORTH ENTRANCE CABLE PLAN & PHASE DESIGNATION DIAGRAM

SCALE: N.T.S. | SHEET NO. 10 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	70
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES, FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES AND RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

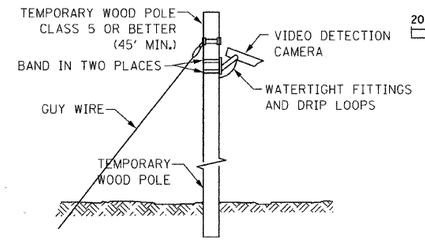
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

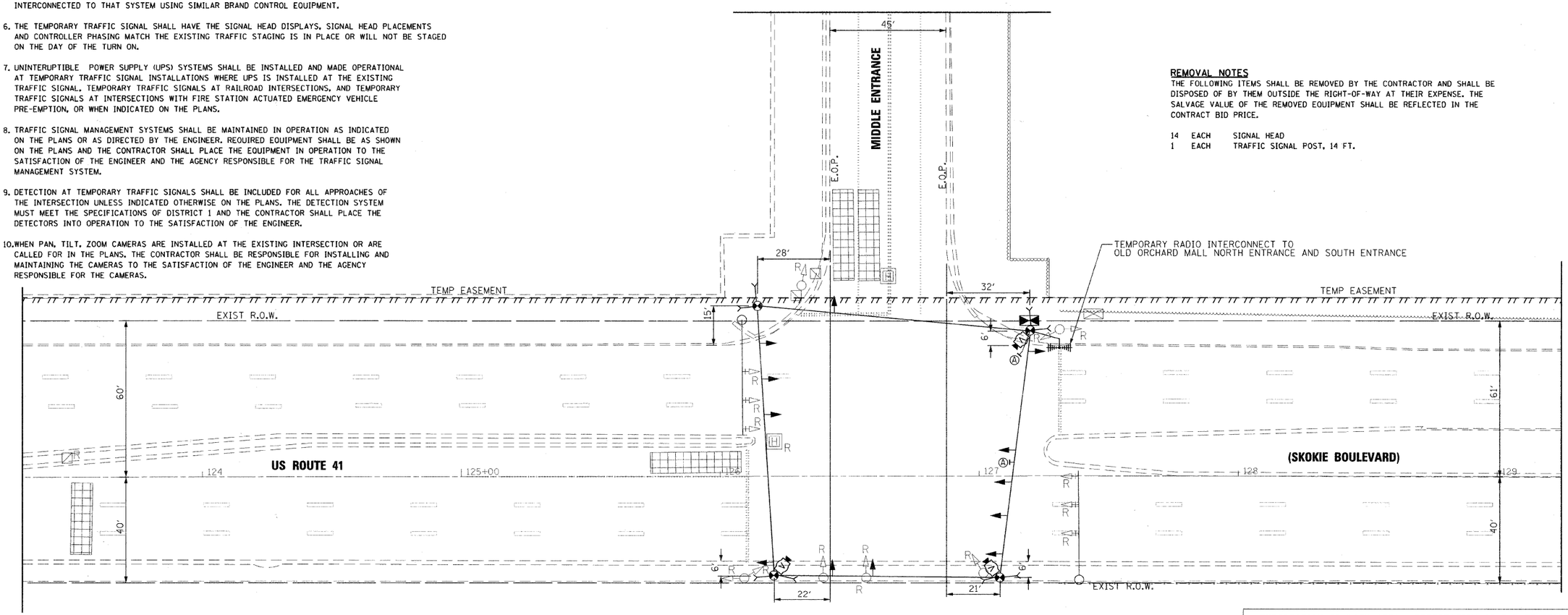
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)

R10-5
24" X 30"



REMOVAL NOTES

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.

14	EACH	SIGNAL HEAD
1	EACH	TRAFFIC SIGNAL POST, 14 FT.

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

Tran Systems
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SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

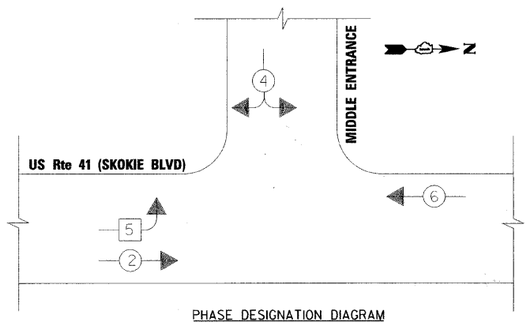
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND MIDDLE ENTRANCE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN

SCALE: 1"=20' | SHEET NO. 14 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	71
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE

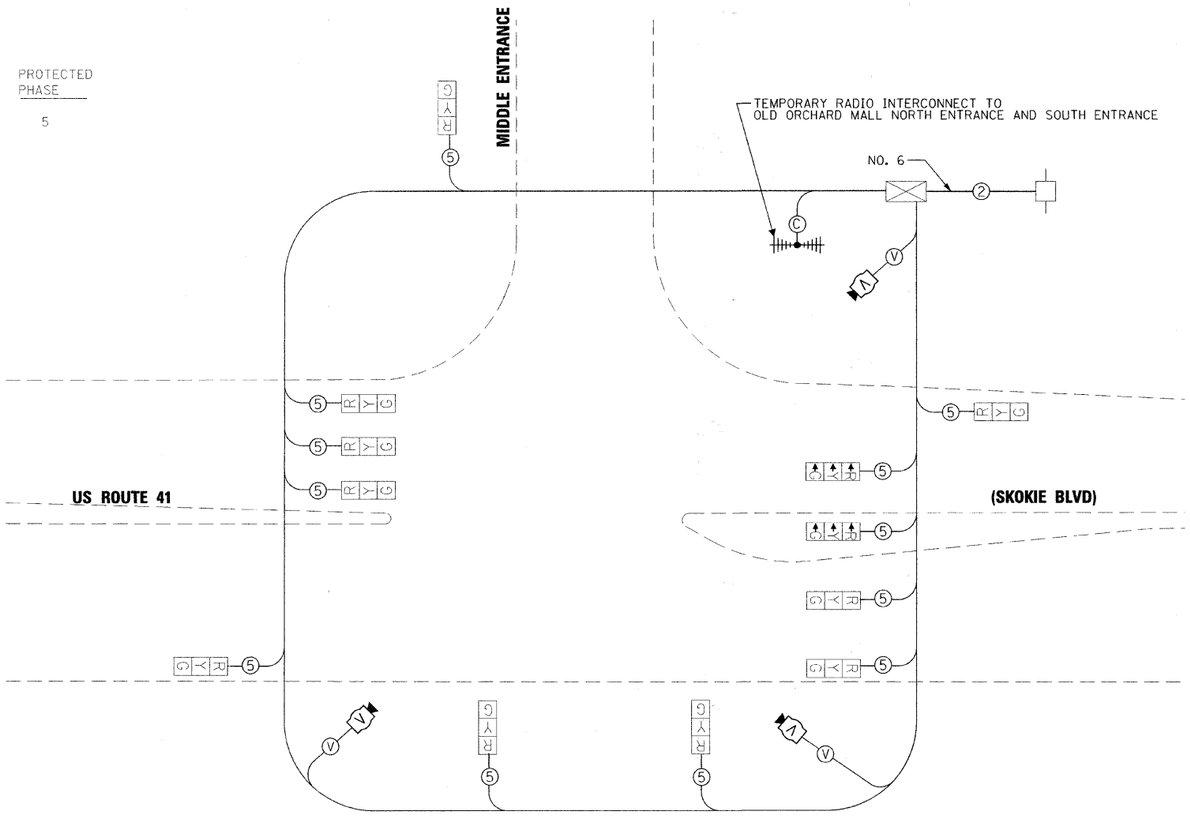


PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL OVERLAP
- ✳ NUMBER REFERS TO ASSOCIATED PHASE

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5



U.S. ROUTE 41 (SKOKIE BOULEVARD) AND MIDDLE ENTRANCE TEMPORARY CABLE PLAN

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	10	135	17	0.50	85
(YELLOW)	10	135	25	0.25	63
(GREEN)	10	135	15	0.25	38
ARROW	6	135	12	0.10	7
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	--
ENERGY COSTS TO:				TOTAL =	293

VILLAGE OF SKOKIE
9050 GROSS POINT ROAD
SKOKIE, IL 60077

ENERGY SUPPLY CONTACT: MR. LARRY SHANKS
PHONE: (847) 816-5465
COMPANY: COMED

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

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FILE NAME = g:\ch2M\0045\road\sheets\0045-TS-219_T-CAB MF.sht	USER NAME = CEComin	DESIGNED FA	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
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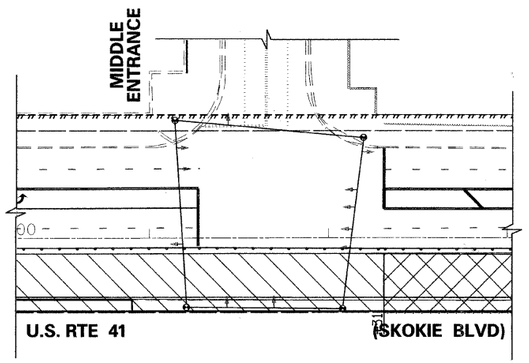
	PLOT SCALE = 20.000 ' / IN.	CHECKED KMM	REVISED -	
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -	

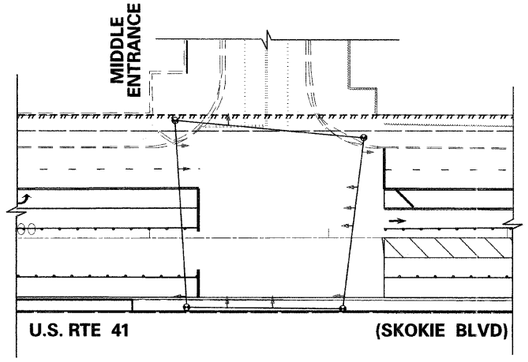
U.S. ROUTE 41 (SKOKIE BOULEVARD) AND MIDDLE ENTRANCE TEMPORARY CABLE PLAN & PHASE DESIGNATION DIAGRAM

SCALE: N.T.S. | SHEET NO. 15 OF 33 SHEETS | STA. | TO STA.

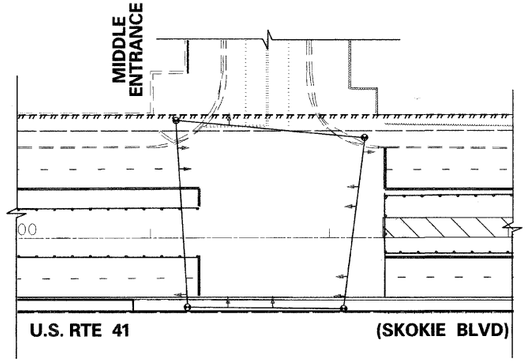
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	72
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



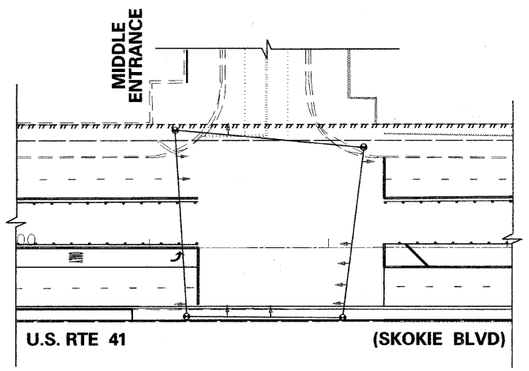
MAINTENANCE OF TRAFFIC STAGE 1A, 1B, 1C & 4E



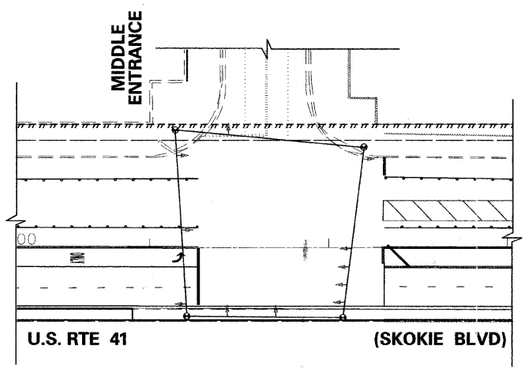
MAINTENANCE OF TRAFFIC STAGE 2A & 4D



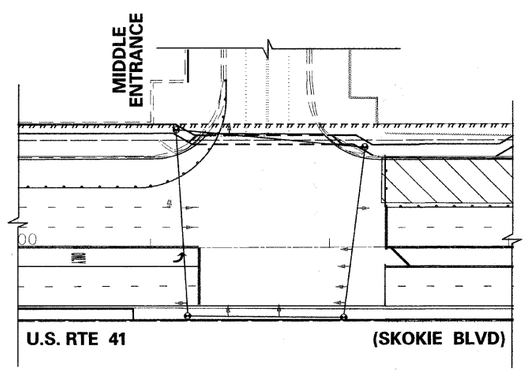
MAINTENANCE OF TRAFFIC STAGE 2B & 4C



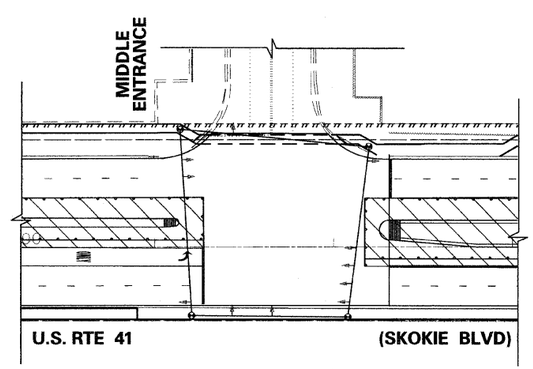
MAINTENANCE OF TRAFFIC STAGE 2C



MAINTENANCE OF TRAFFIC STAGE 2D



MAINTENANCE OF TRAFFIC
STAGE 3A, 3B, 3C, 4A & 4B



MAINTENANCE OF TRAFFIC STAGE 5

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(847) 605-9600

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		DRAWN FA	REVISED -
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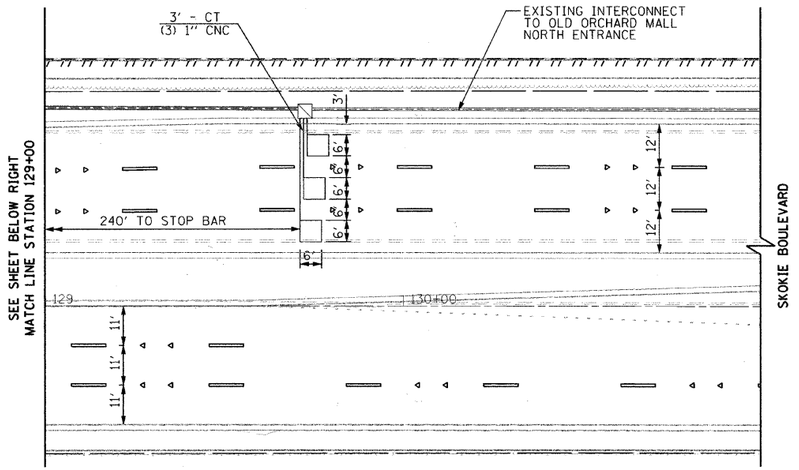
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

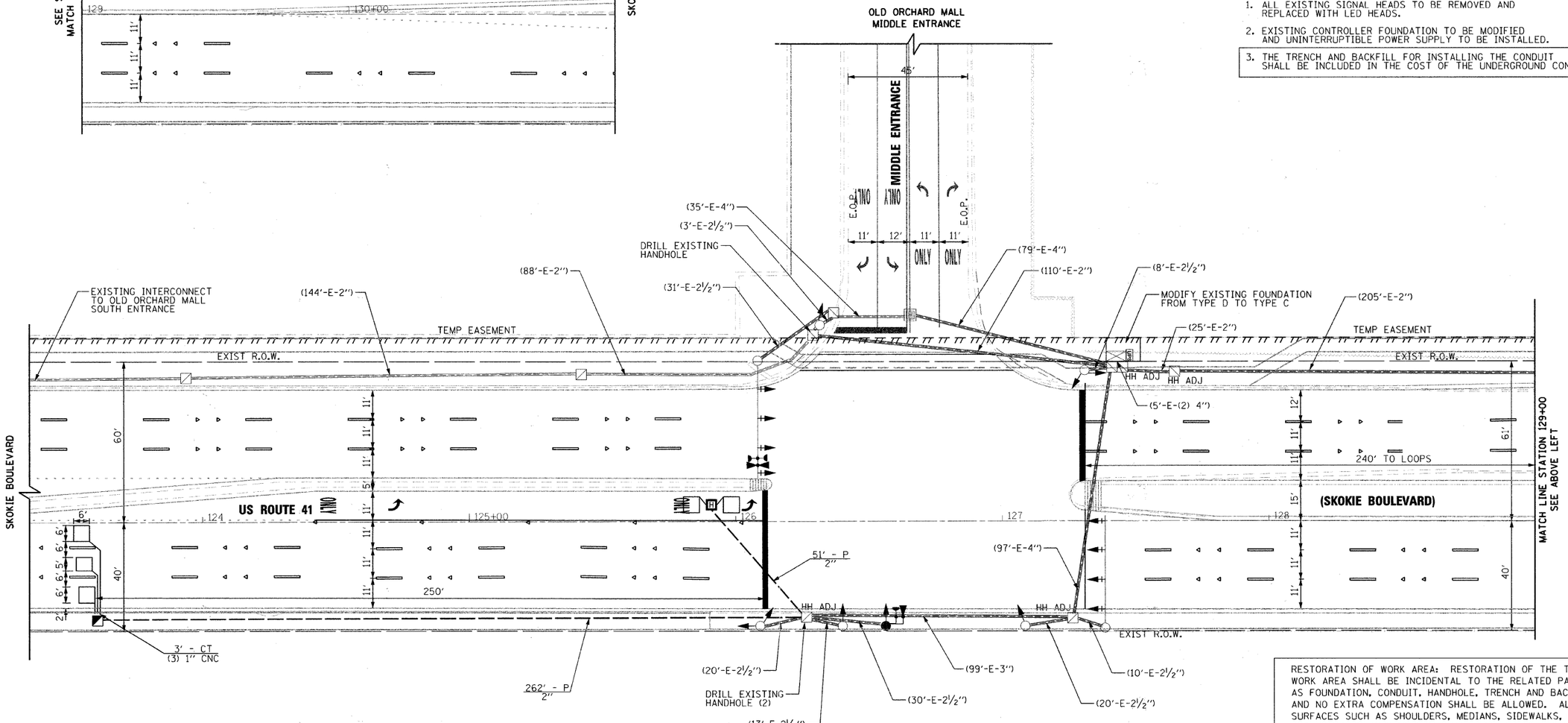
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND MIDDLE ENTRANCE
M.O.T. STAGING PLAN

SCALE: N.T.S. | SHEET NO. 16 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	73
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		





NOTES:

1. ALL EXISTING SIGNAL HEADS TO BE REMOVED AND REPLACED WITH LED HEADS.
2. EXISTING CONTROLLER FOUNDATION TO BE MODIFIED AND UNINTERRUPTIBLE POWER SUPPLY TO BE INSTALLED.
3. THE TRENCH AND BACKFILL FOR INSTALLING THE CONDUIT SHALL BE INCLUDED IN THE COST OF THE UNDERGROUND CONDUIT.

20 0 20 40
HORIZONTAL SCALE IN FEET

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

Trans Systems
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SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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	PLOT SCALE = 20.0000 ' / IN.	CHECKED KMM	REVISED -
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

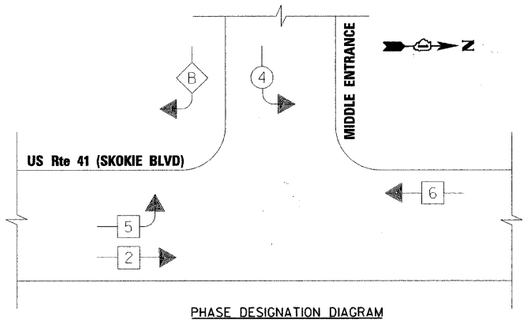
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND MIDDLE ENTRANCE
TRAFFIC SIGNAL INSTALLATION PLAN

SCALE: 1"=20' | SHEET NO. 14 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	74
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

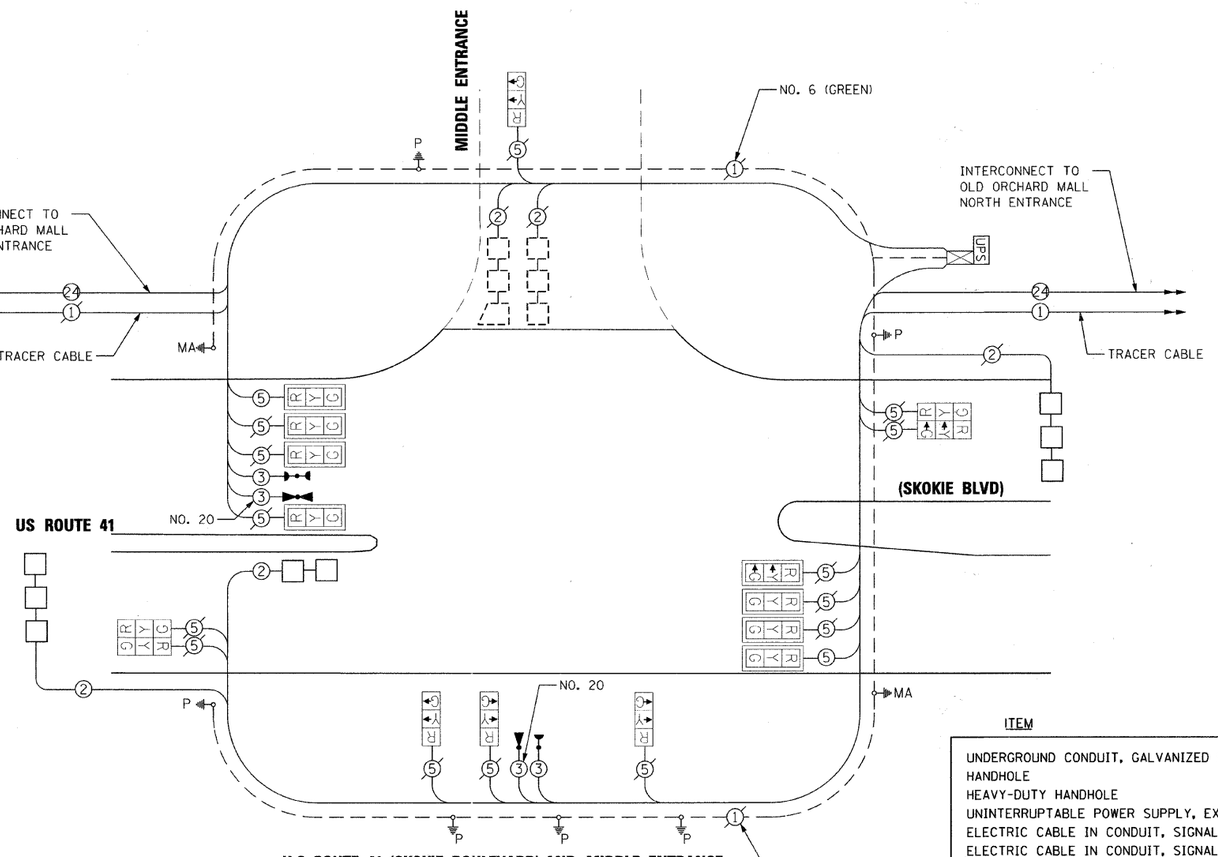
EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL OVERLAP
- ✳ NUMBER REFERS TO ASSOCIATED PHASE



U.S. ROUTE 41 (SKOKIE BOULEVARD) AND MIDDLE ENTRANCE CABLE PLAN

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
					--
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	396

VILLAGE OF SKOKIE
9050 GROSS POINT ROAD
SKOKIE, IL 60077

ENERGY SUPPLY CONTACT: MR. LARRY SHANKS
PHONE: (847) 816-5465
COMPANY: COMED

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	313
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	531
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	386
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	789
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
DETECTOR LOOP, TYPE I	FOOT	286
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	464
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	531
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

Trans Systems
1475 EAST WOODFIELD ROAD, SUITE 800
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(847) 605-9600

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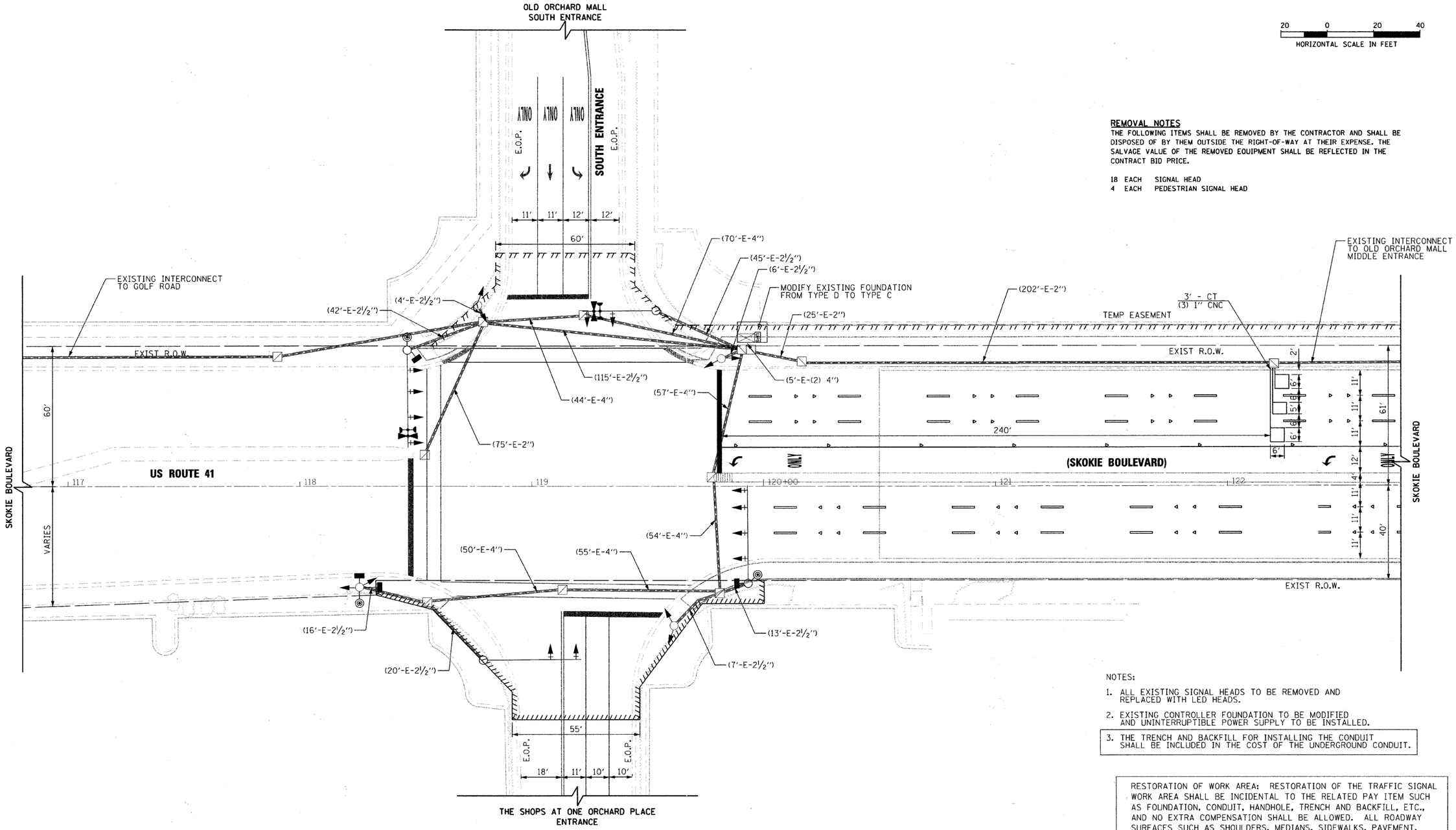
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND MIDDLE ENTRANCE CABLE PLAN & PHASE DESIGNATION DIAGRAM

SCALE: N.T.S. | SHEET NO. 15 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	75
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



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20 0 20 40
HORIZONTAL SCALE IN FEET

REMOVAL NOTES

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.

18 EACH SIGNAL HEAD
4 EACH PEDESTRIAN SIGNAL HEAD

NOTES:

1. ALL EXISTING SIGNAL HEADS TO BE REMOVED AND REPLACED WITH LED HEADS.
2. EXISTING CONTROLLER FOUNDATION TO BE MODIFIED AND UNINTERRUPTIBLE POWER SUPPLY TO BE INSTALLED.
3. THE TRENCH AND BACKFILL FOR INSTALLING THE CONDUIT SHALL BE INCLUDED IN THE COST OF THE UNDERGROUND CONDUIT.

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

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(847) 605-9600

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	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

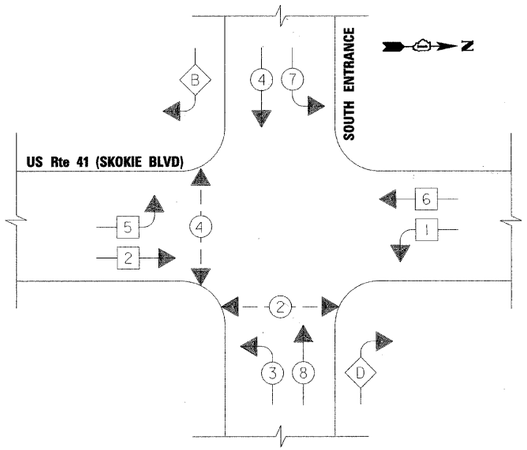
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND SOUTH ENTRANCE
TRAFFIC SIGNAL INSTALLATION PLAN

SCALE: 1"=20' | SHEET NO. 14 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	76
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

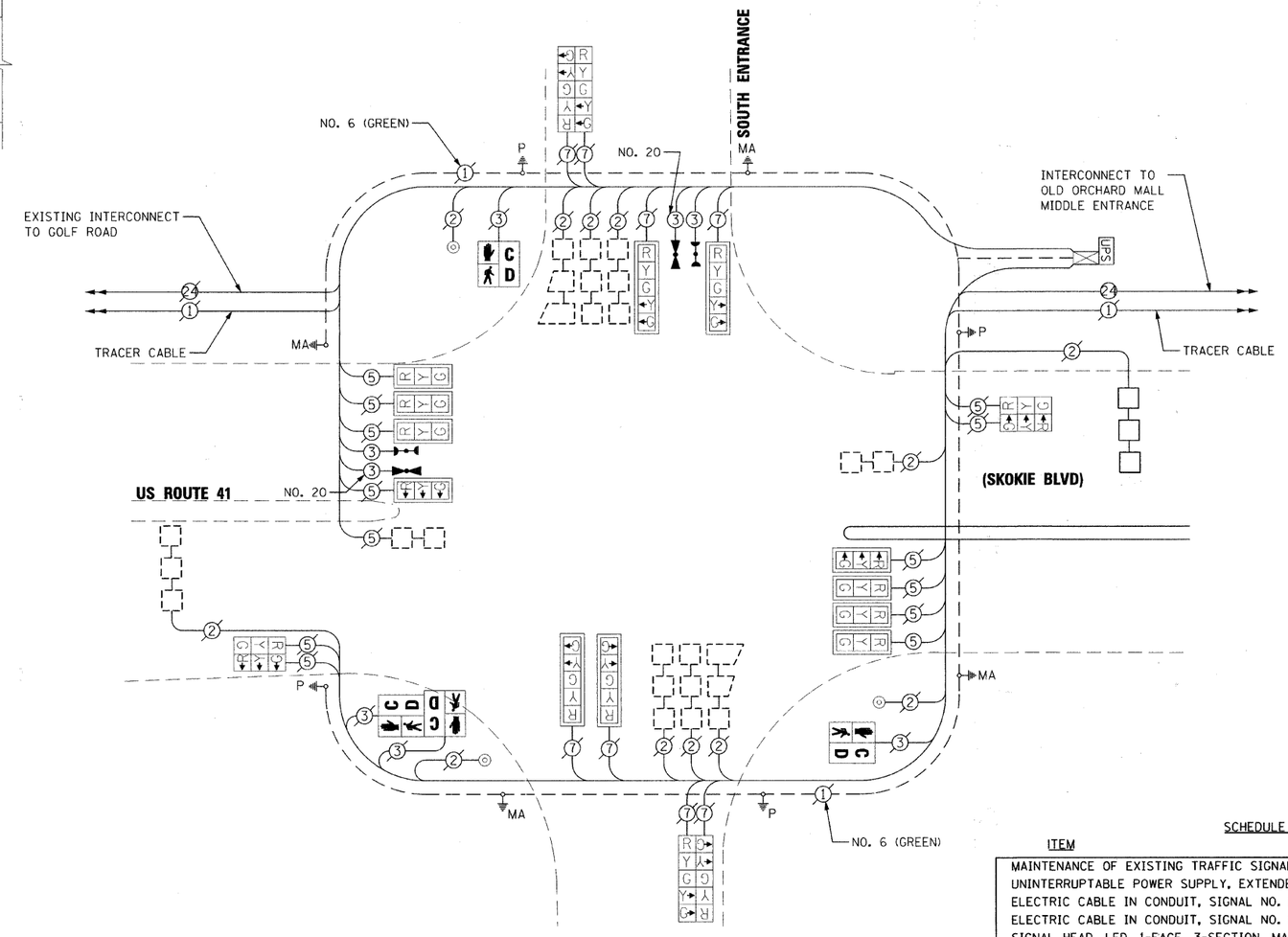
EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- ✳ NUMBER REFERS TO ASSOCIATED PHASE



U.S. ROUTE 41 (SKOKIE BOULEVARD) AND SOUTH ENTRANCE CABLE PLAN

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW	16	135	12	0.10	19
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	--
ENERGY COSTS TO:				TOTAL =	589

VILLAGE OF SKOKIE
9050 GROSS POINT ROAD
SKOKIE, IL 60077

ENERGY SUPPLY CONTACT: MR. LARRY SHANKS
PHONE: (847) 816-5465
COMPANY: COMED

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	376
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	422
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12
DETECTOR LOOP, TYPE I	FOOT	111
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	376

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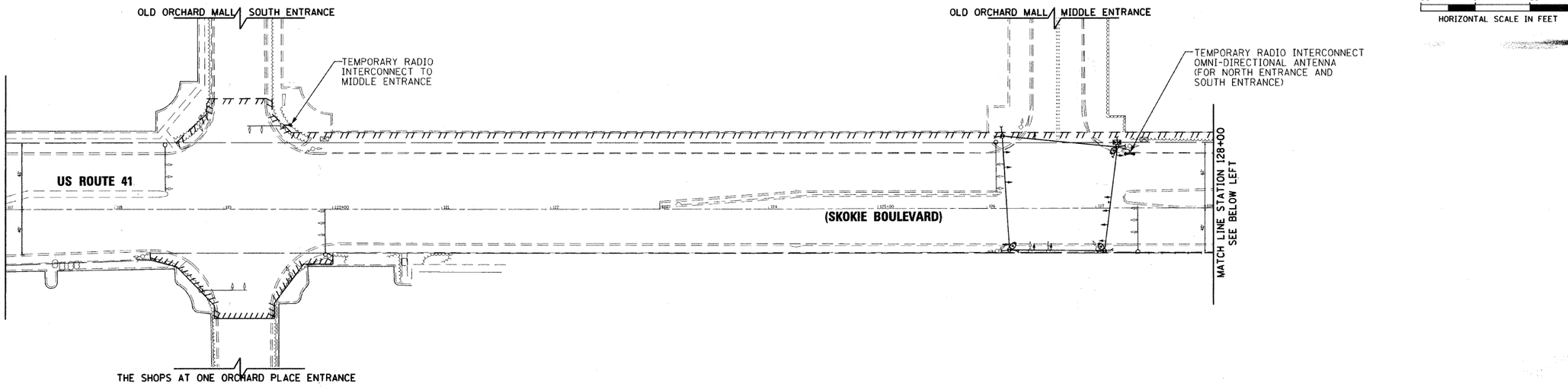
	PLOT DATE = 10/26/2011	DATE 10/26/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND SOUTH ENTRANCE CABLE PLAN & PHASE DESIGNATION DIAGRAM

SCALE: N.T.S. | SHEET NO. 15 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	77
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



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50 0 50 100

HORIZONTAL SCALE IN FEET

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SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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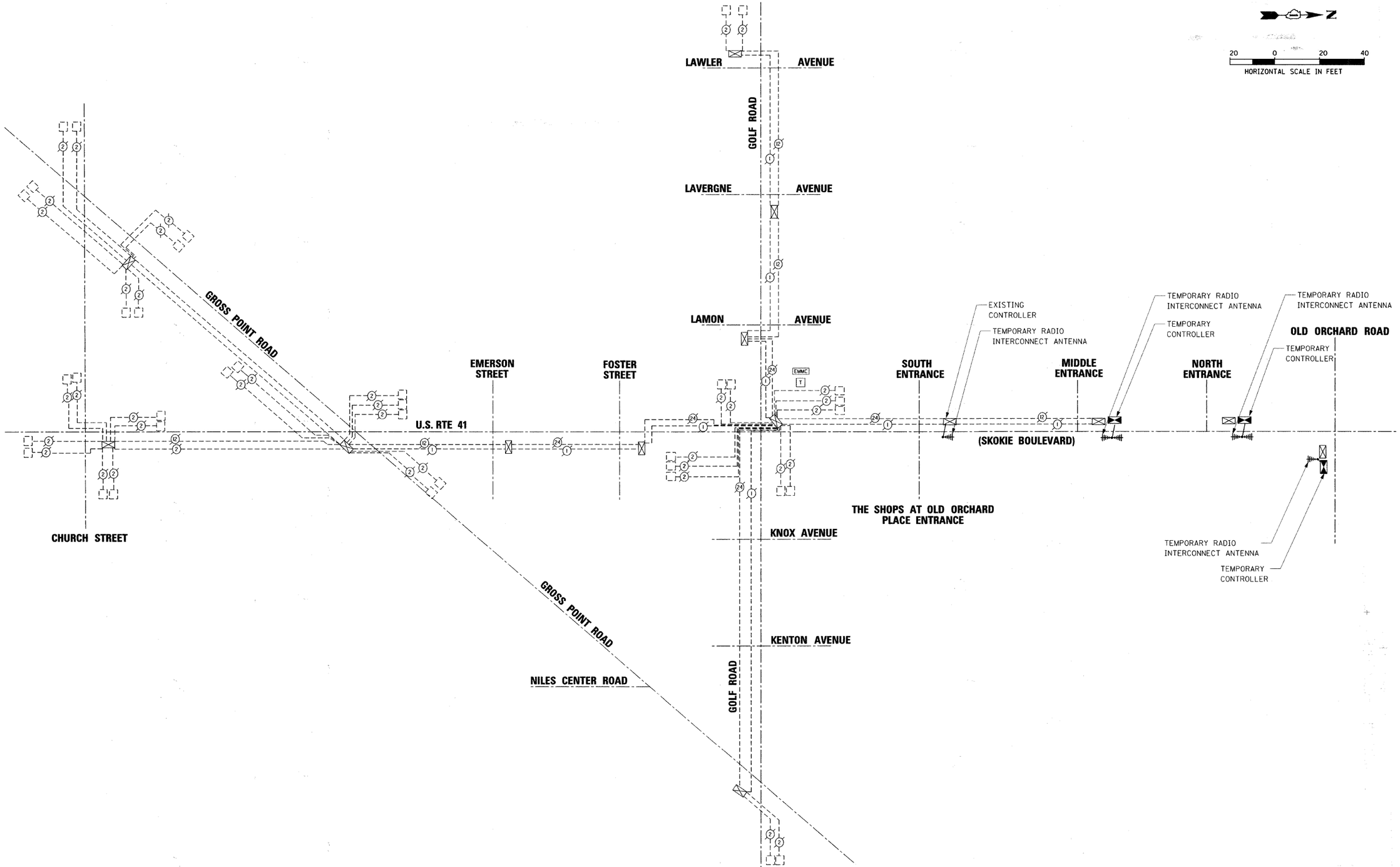
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
TRAFFIC SIGNAL TEMPORARY INTERCONNECT PLAN

SCALE: 1"=50' | SHEET NO. 21 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	78
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



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1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\ch28\i0445\road\sheets\i0445-TS-222_TEMP SCH.dgn	USER NAME = CEComin	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
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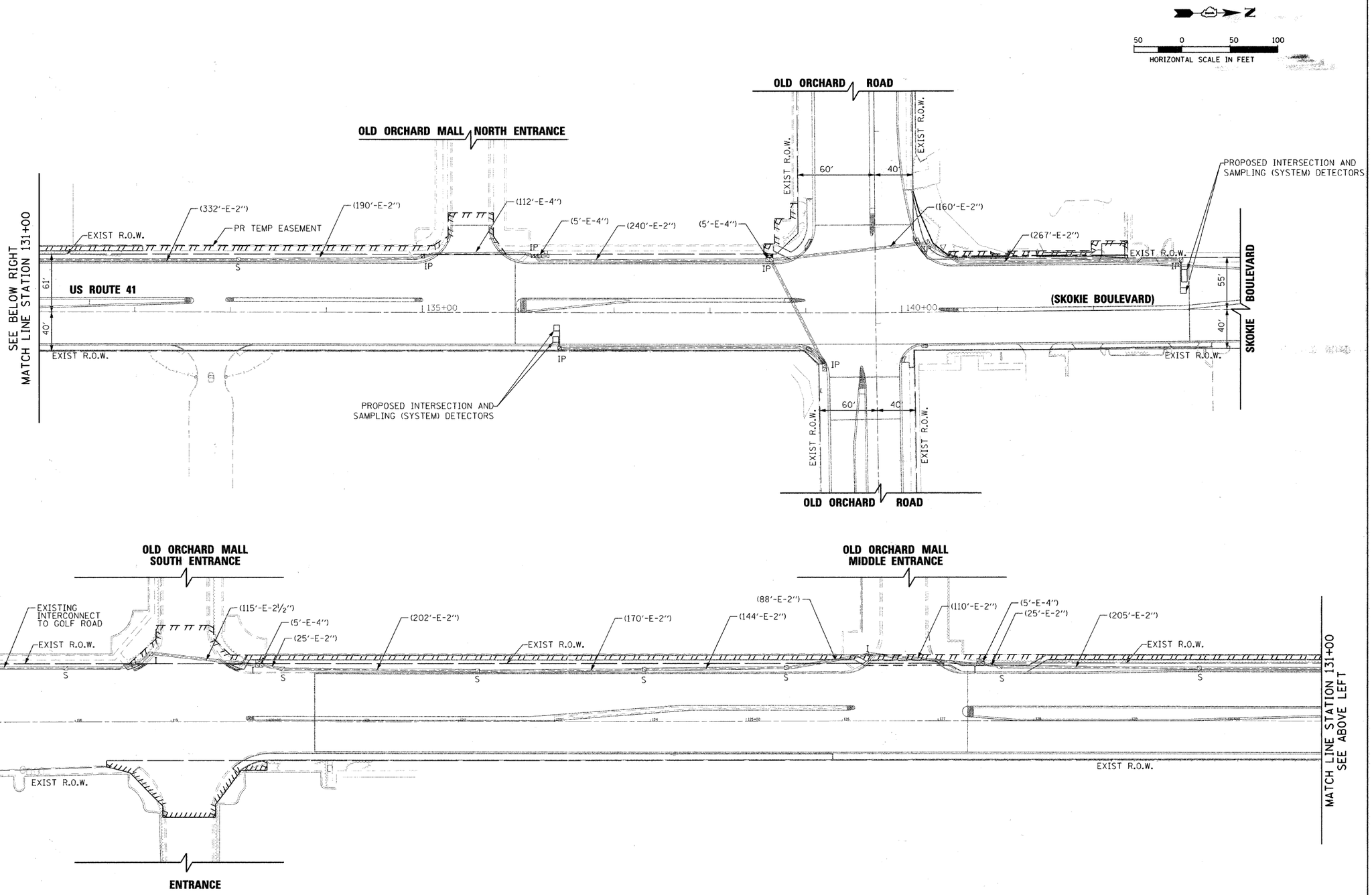
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
TEMPORARY INTERCONNECT SCHEMATIC

SCALE: N.T.S. | SHEET NO. 22 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	79
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



Trend Systems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\ch08\RM5\road\sheets\RM5-TS-224_INTER2.sht	USER NAME = CEComin	DESIGNED FA	REVISED -
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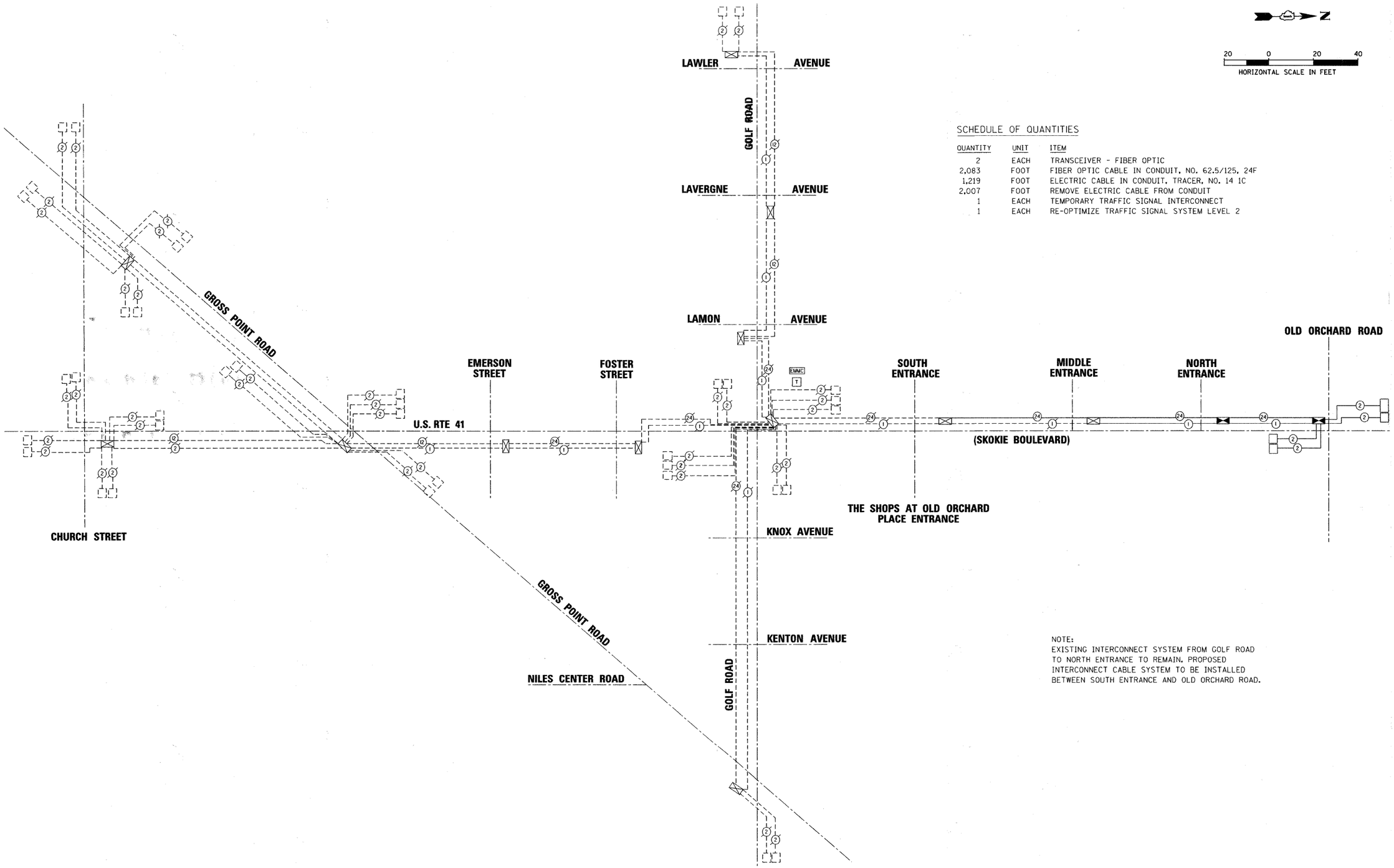
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD) AND OLD ORCHARD ROAD
TRAFFIC SIGNAL INTERCONNECT PLAN

SCALE: 1"=50' | SHEET NO. 23 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	80
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
2	EACH	TRANSCEIVER - FIBER OPTIC
2,083	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F
1,219	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
2,007	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	TEMPORARY TRAFFIC SIGNAL INTERCONNECT
1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2

NOTE:
EXISTING INTERCONNECT SYSTEM FROM GOLF ROAD TO NORTH ENTRANCE TO REMAIN. PROPOSED INTERCONNECT CABLE SYSTEM TO BE INSTALLED BETWEEN SOUTH ENTRANCE AND OLD ORCHARD ROAD.

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FILE NAME = g:\ch08\8045\road\sheets\8045-TS-225_SCHEMATIC.sht	USER NAME = CEC.omsn	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED KMM	REVISED -
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

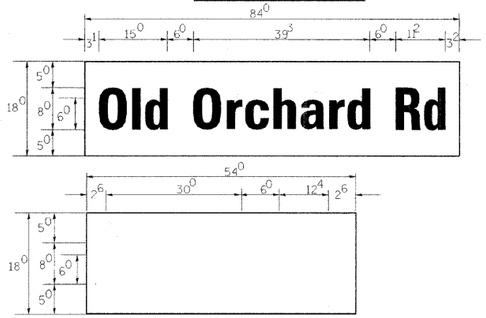
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (SKOKIE BOULEVARD)
INTERCONNECT SCHEMATIC

SCALE: N.T.S. | SHEET NO. 24 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	81
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

PANEL SIGN DESIGN TYPE 1

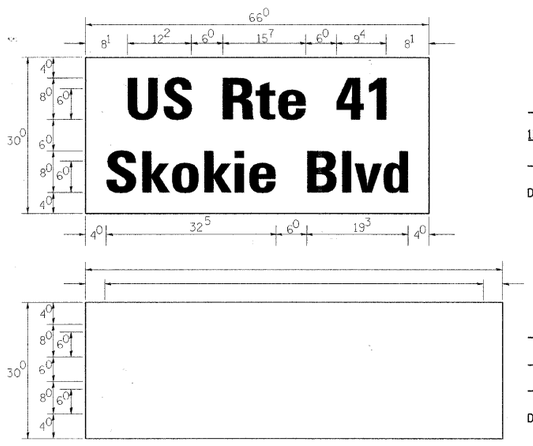


___ Sq. M. each
10.5 Sq. Ft. each
2 Required
Design Series D

___ Sq. M. each
___ Sq. Ft. each
___ Required
Design Series ___

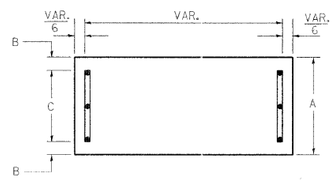
NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

PANEL SIGN DESIGN TYPE 2

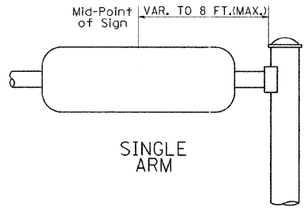


___ Sq. M. each
13.75 Sq. Ft. each
2 Required
Design Series D

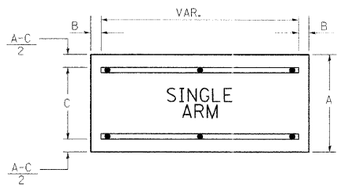
SUPPORTING CHANNELS



A	B	C
18"	2"	14"



SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"

___ Sq. M. each
___ Sq. Ft. each
___ Required
Design Series ___

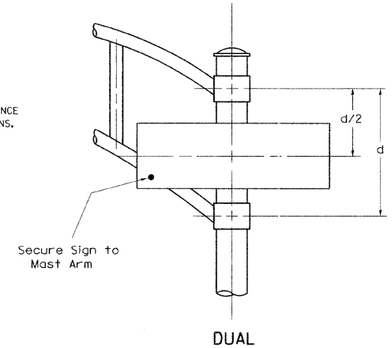
GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 8770011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
4. ALL BORDERS SHALL BE ¾" WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
   - * J.O. HERBERT CO. MIDLOTHIAN, VA
   - * WESTERN REMAC INC. WOODRIDGE, IL

PARTS LISTING:

SIGN CHANNEL	PART #HPNO53 (MED. CHANNEL)
SIGN SCREWS	¼" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPNO34 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM
Shall be used. See Note *5.

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

FIRST LETTER	SECOND LETTER: acdegoq		bhiklmnpru		fw		j		st		vy		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1^2	1^4	1^4	1^5	1^2	1^4	0^6	1^0	1^1	1^4	0^6	1^0	1^1	1^2	1^2	1^4
B	1^4	1^5	2^0	2^1	1^4	1^5	1^1	1^2	1^4	1^5	1^2	1^4	1^2	1^4	1^6	1^7
C E G	1^4	1^5	2^0	2^1	1^2	1^4	0^6	1^0	1^2	1^4	1^2	1^4	1^4	1^5	1^4	1^5
D O Q R	1^4	1^5	2^0	2^1	1^4	1^5	0^6	1^0	1^2	1^4	1^2	1^4	1^4	1^5	1^4	1^5
F	0^5	0^6	1^4	1^5	0^6	1^0	0^5	0^6	0^6	1^0	0^6	1^0	0^6	1^0	1^1	1^2
H I M N	2^0	2^1	2^2	2^4	2^0	2^1	1^4	1^5	1^6	1^7	1^6	1^7	2^0	2^1	2^0	2^1
J U	2^0	2^1	2^0	2^1	1^6	1^7	1^4	1^5	1^6	1^7	1^6	1^7	1^6	1^7	2^0	2^1
K L	1^1	1^2	1^6	1^7	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4
P	1^2	1^4	1^4	1^5	1^2	1^4	0^5	0^6	1^1	1^2	1^1	1^2	1^2	1^4	1^2	1^4
S	1^2	1^4	1^6	1^7	1^2	1^4	0^6	1^0	1^2	1^4	1^2	1^4	1^2	1^4	1^2	1^4
T	1^1	1^2	1^6	1^7	0^6	1^0	0^6	1^0	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4
V	0^6	1^0	1^4	1^5	1^1	1^2	0^6	1^0	1^2	1^4	1^2	1^4	1^2	1^4	1^2	1^4
Y	0^5	0^6	1^4	1^5	0^6	1^0	0^5	0^6	0^5	0^7	0^5	0^6	0^6	1^0	1^1	1^2
Z	1^6	1^7	2^2	2^4	1^6	1^7	1^2	1^4	1^6	1^7	1^6	1^7	1^6	1^7	2^0	2^1

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

FIRST LETTER	SECOND LETTER: acdegoq		bhiklmnpru		fw		j		st		vy		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
adhgijlmnqu	1^6	1^7	2^2	2^4	1^6	1^7	1^2	1^4	1^4	1^5	1^4	1^5	1^6	1^7	1^6	1^7
bfkops	1^2	1^4	1^6	1^7	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^2	1^4	1^2	1^4
c e	1^2	1^4	1^6	1^7	1^2	1^4	0^6	1^0	1^2	1^4	1^2	1^4	1^2	1^4	1^2	1^4
r	0^6	1^0	1^2	1^4	0^6	1^0	0^3	0^3	0^5	0^6	0^5	0^6	0^6	1^0	0^6	1^0
t z	1^2	1^4	1^6	1^7	1^2	1^4	0^6	1^0	1^1	1^2	1^1	1^2	1^2	1^4	1^2	1^4
v y	1^1	1^2	1^4	1^5	1^1	1^2	0^5	0^6	0^6	1^0	0^6	1^0	1^1	1^2	1^1	1^2
w	1^1	1^2	1^4	1^5	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4
x	1^2	1^4	1^6	1^7	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4

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

FIRST NUMBER	SECOND NUMBER: 0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1^6	1^7	1^6	1^7	1^4	1^5	1^2	1^4	1^4	1^5	1^4	1^5	1^6	1^7	1^2	1^4	1^6	1^7	1^6	1^7
1	2^0	2^1	2^0	2^1	2^0	2^1	1^6	1^7	1^4	1^5	2^0	2^1	2^0	2^1	1^4	1^5	2^0	2^1	2^0	2^1
2 3 4	1^4	1^5	1^4	1^5	1^4	1^5	1^2	1^4	1^2	1^4	1^4	1^5	1^4	1^5	1^1	1^2	1^6	1^7	1^4	1^5
5	1^4	1^5	1^4	1^5	1^4	1^5	1^1	1^2	1^1	1^2	1^4	1^5	1^4	1^5	1^1	1^2	1^4	1^5	1^4	1^5
6	1^6	1^7	1^4	1^5	1^4	1^5	1^2	1^5	1^2	1^4	1^4	1^5	1^4	1^5	1^1	1^2	1^4	1^5	1^4	1^5
7	1^2	1^4	1^2	1^4	1^4	1^5	1^2	1^5	0^5	0^6	1^2	1^4	1^4	1^5	1^1	1^2	1^4	1^5	1^2	1^4
8	1^6	1^7	1^6	1^7	1^4	1^5	1^2	1^5	1^2	1^4	1^4	1^5	1^6	1^7	1^2	1^4	1^6	1^7	1^4	1^5

EXAMPLE, $2^{(3)}$ DENOTES $\frac{3}{8}$"

UPPER AND LOWER CASE LETTER WIDTHS

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

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

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\chl85\0045\road\sheets\045-TS-225.MA SIGN.sht	USER NAME = CEComin	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED KMM	REVISED -
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: | SHEET NO. 25 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	82
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

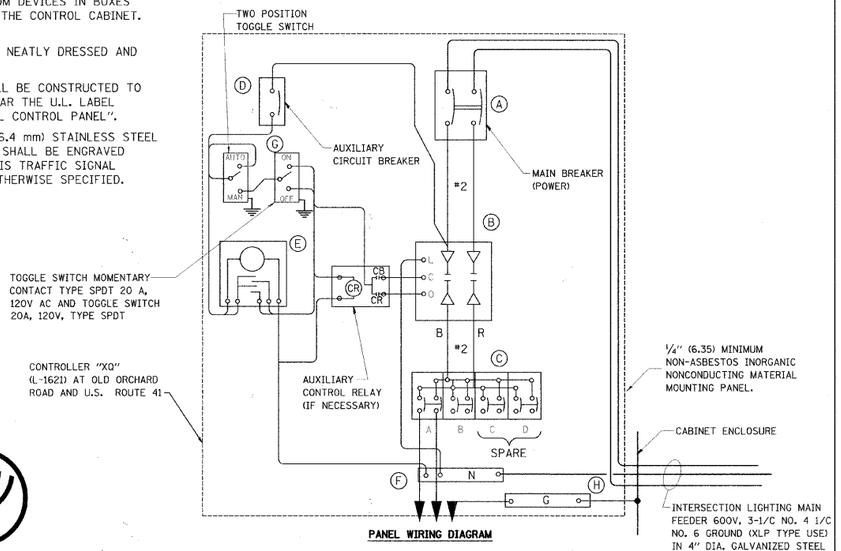
NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
3. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
4. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
5. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
6. CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
7. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
8. ALL WIRING SHALL BE COLOR CODED AS INDICATED.
   R = RED BL = BLUE W = WHITE
   B = BLACK Y = YELLOW G = GREEN
9. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
10. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
11. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
12. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS TRAFFIC SIGNAL CONTROLS" UNLESS OTHERWISE SPECIFIED.

PANEL EQUIPMENT

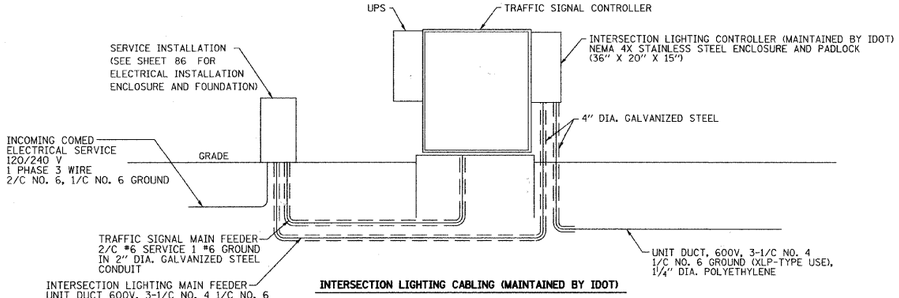
BILL OF MATERIAL

ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 40 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 120 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 40 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
C	4	CIRCUIT BREAKERS, 2 POLE, 100AMP. FRAME, 20 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 120 V.
D	1	CONTROL CIRCUIT-CIRCUIT BREAKER. 1 POLE, 120 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 120 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH].
F	1	COPPER NEUTRAL BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
G	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
H	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS



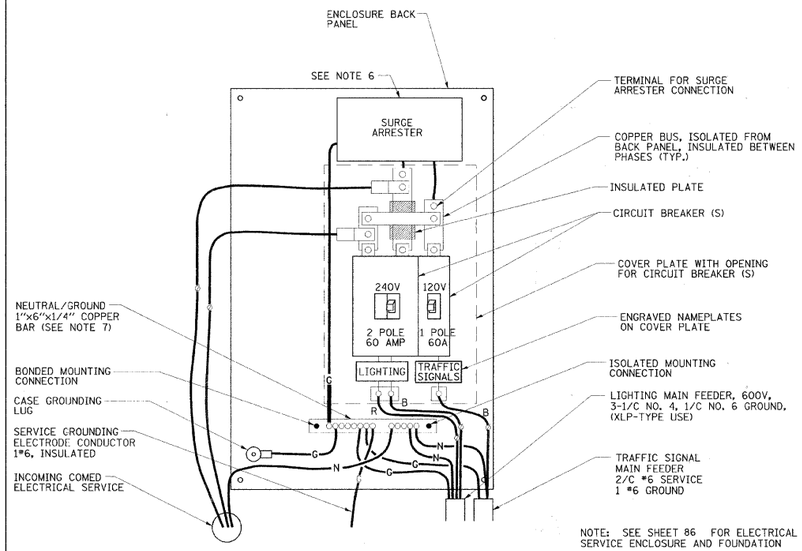
PANEL WIRING DIAGRAM

6" DECAL ON FRONT COVER



INTERSECTION LIGHTING CABLING (MAINTAINED BY IDOT)

COMBINATION POLE LIGHTING CONTROLLER

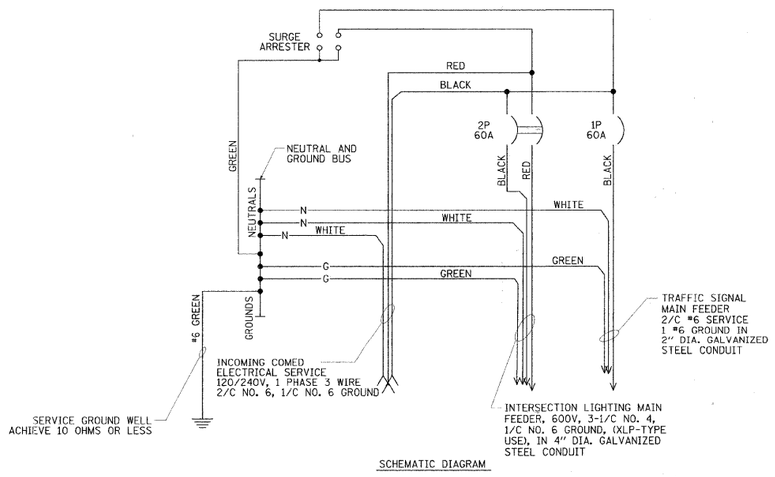


NOTE: SEE SHEET 86 FOR ELECTRICAL SERVICE ENCLOSURE AND FOUNDATION

GROUND-MOUNTED ELECTRICAL SERVICE PANEL DIAGRAM

NOTES:

1. ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER.
2. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
3. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP.
4. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/ TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
5. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.
6. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
7. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
8. THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
9. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
10. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
11. LUGS AND CONNECTORS SHALL BE RATED FOR 75 C CONDUCTOR.



SCHEMATIC DIAGRAM

COMBINATION LIGHTING AND TRAFFIC SIGNAL ELECTRICAL SERVICE DIAGRAMS

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = g:\ch08\0045\road\sheets\E45-TS-287A_CONTR.sht	USER NAME = CEComan	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED KMM	REVISED -
	PLOT DATE = 7/25/2011	DATE 07/22/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMBINATION POLE LIGHTING CONTROLLER AND COMBINATION LIGHTING & TRAFFIC SIGNAL ELECTRICAL SERVICE DIAGRAM

SCALE: N.T.S. | SHEET NO. 26 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	83
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

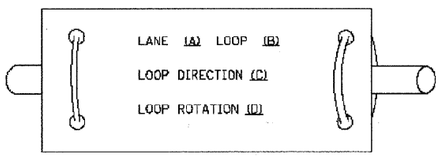
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

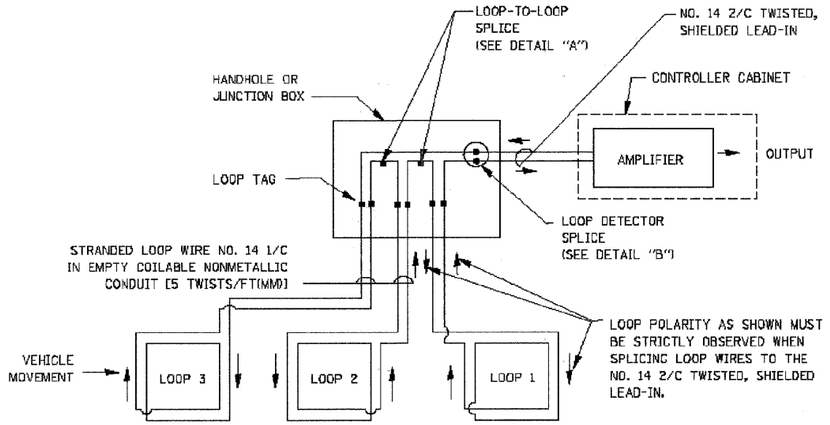


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

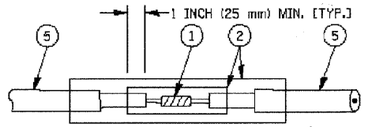
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

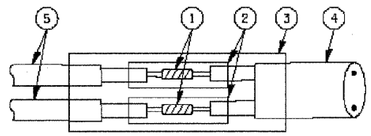


DETECTOR LOOP WIRING SCHEMATIC

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

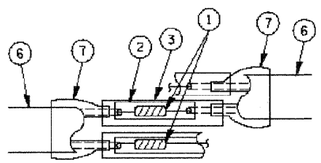


DETAIL "A"
LOOP-TO-LOOP SPLICE



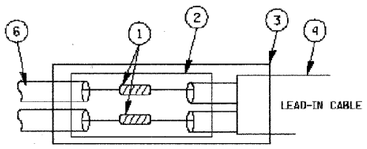
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

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

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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FILE NAME = c:\pw_work\PWIDOT\KONTHAPHIXAYBC\d0126141\traffic_legend_v2.dgn	USER NAME = kanthaphixaybc	DESIGNED DAD	REVISED -
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	PLOT DATE = 11/4/2011	DATE 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

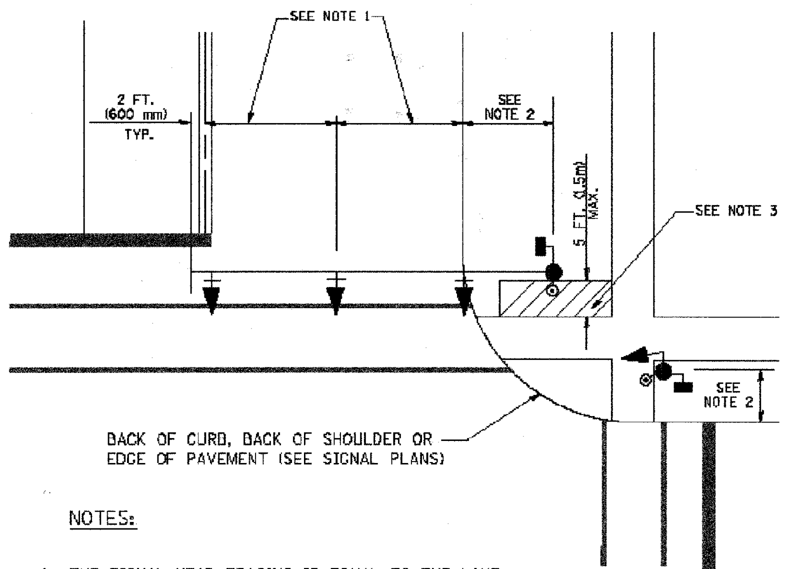
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 27 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	84
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

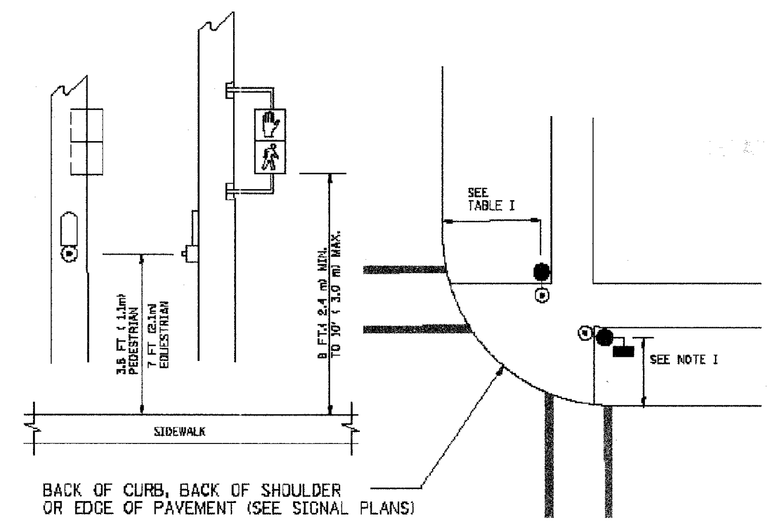
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

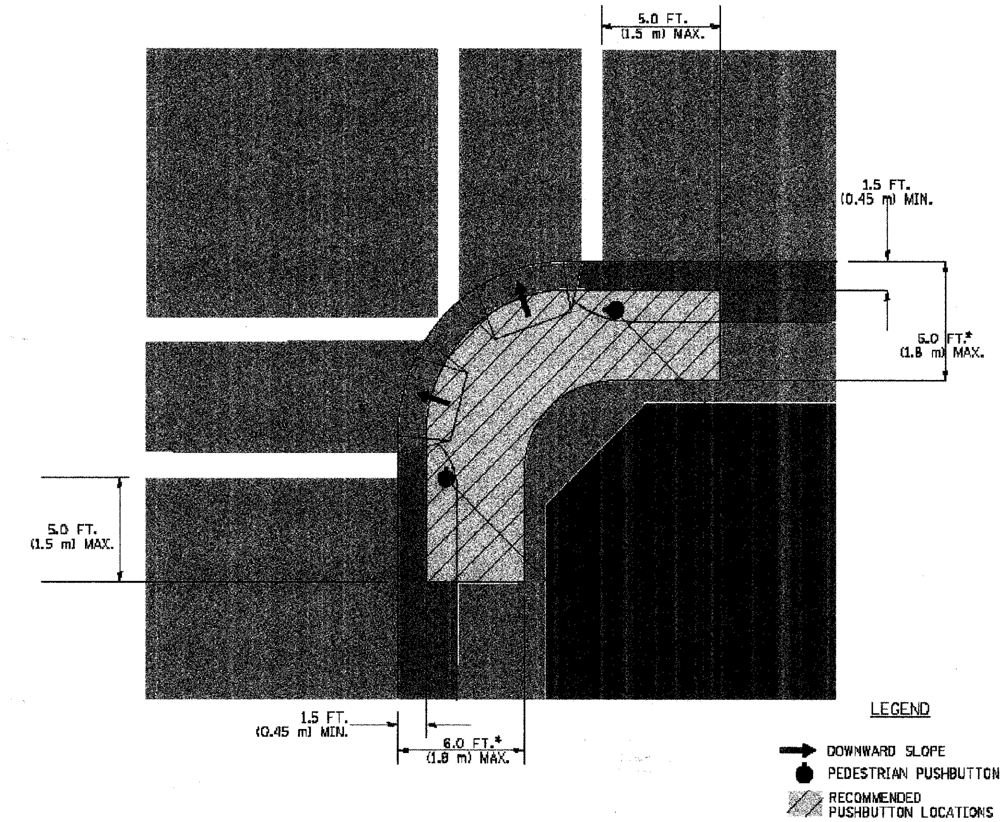
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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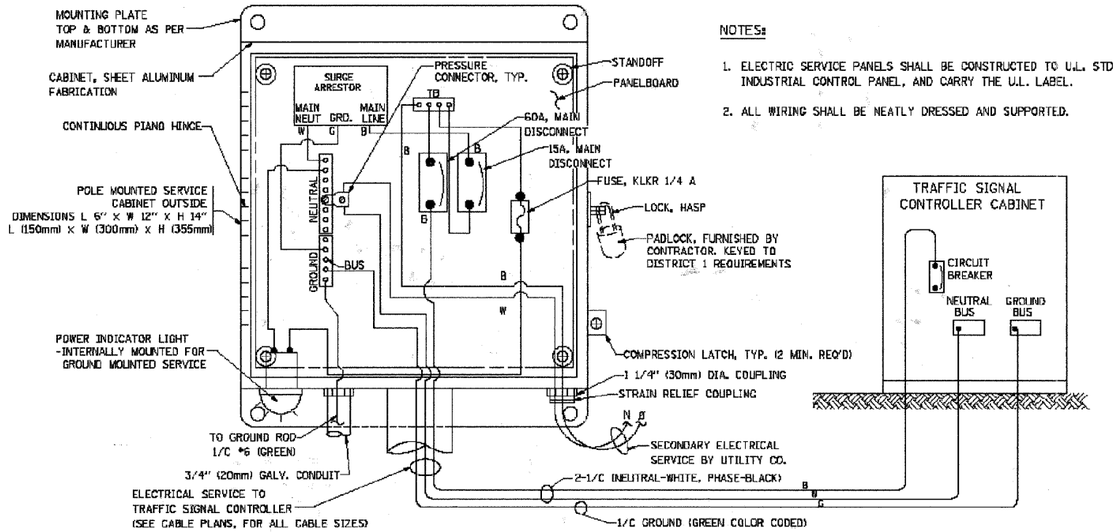
FILE NAME =	USER NAME = CECcomin	DESIGNED DAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS
		DRAWN BCK	REVISED -		
	PLOT SCALE = 20.000 ' / IN.	CHECKED DAD	REVISED -		
	PLOT DATE = 6/3/2011	DATE 10/28/0811	REVISED -		SCALE: N.T.S. SHEET NO. 28 OF 33 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	85
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



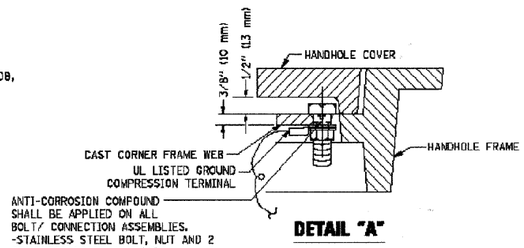
NOTES:

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

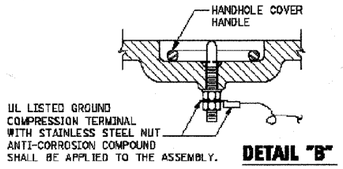
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

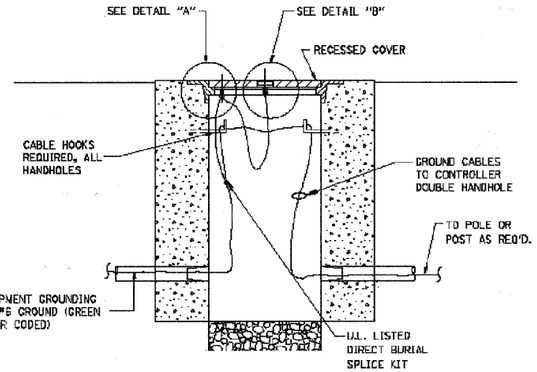


DETAIL "B"

NOTES:

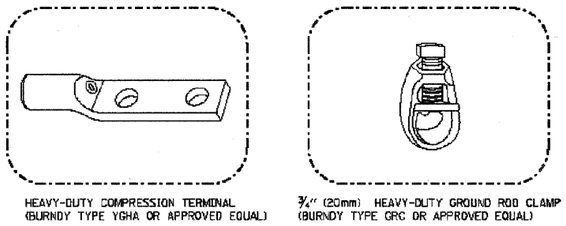
GROUNDING SYSTEM

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



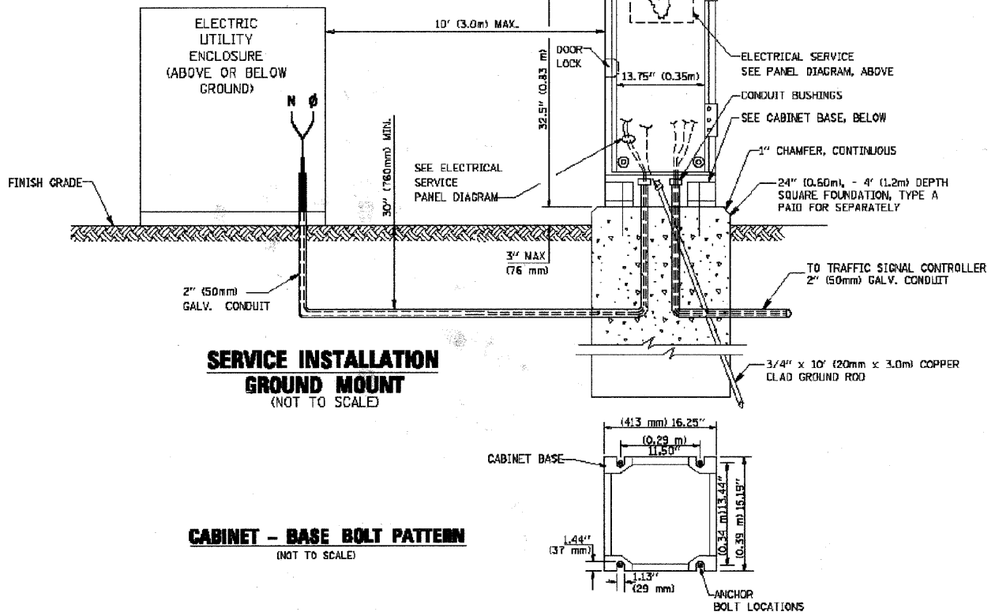
HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



NOTES:

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

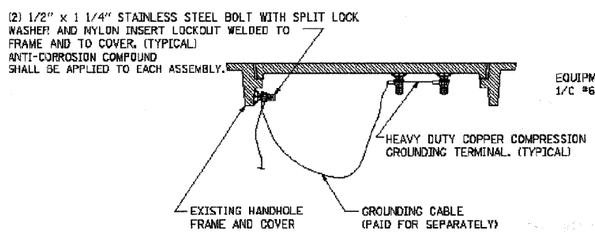


SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)

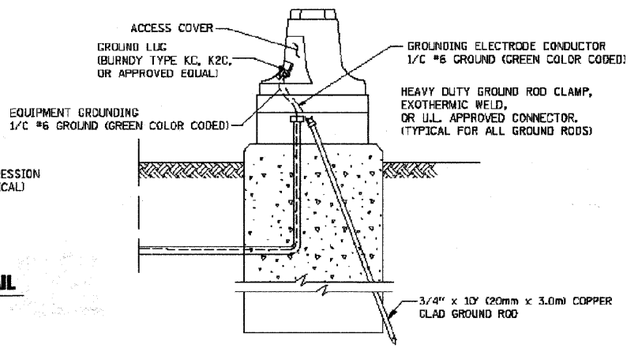
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

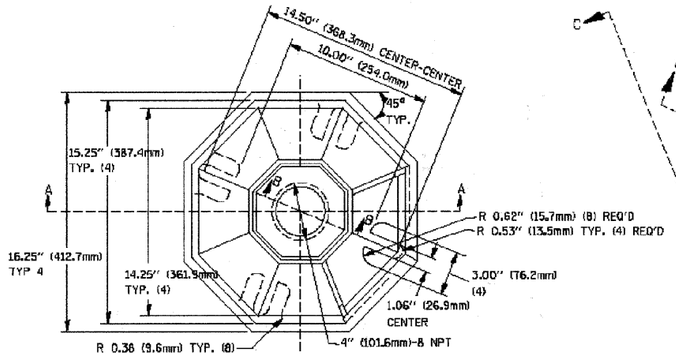
FILE NAME = g:\cb26\0045\road\sheets\0045-TS-284_ST03.sht	USER NAME = CEComin	DESIGNED DAD	REVISED -
		DRAWN BCK	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED DAD	REVISED -
	PLOT DATE = 6/3/2011	DATE 10/28/0011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

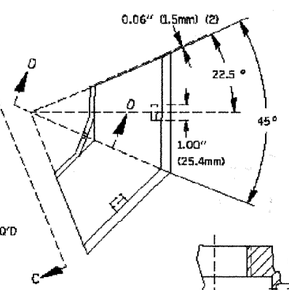
DISTRICT ONE – STANDARD TRAFFIC SIGNAL DESIGN DETAILS

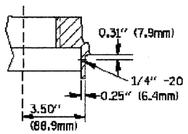
SCALE: N.T.S. | SHEET NO. 29 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	86
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

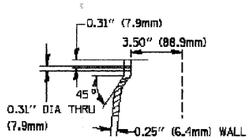


TOP VIEW

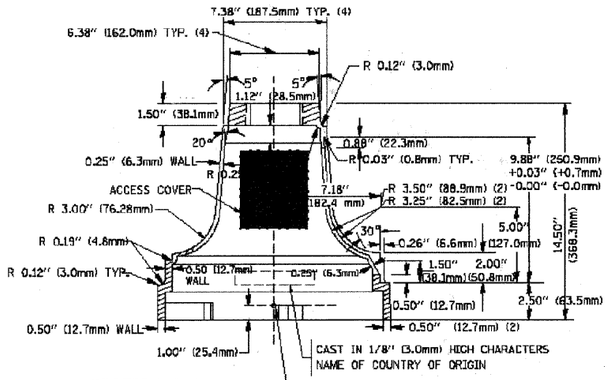




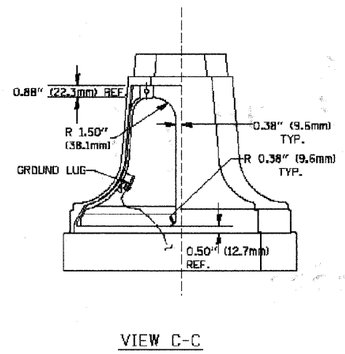
SECTION B-B



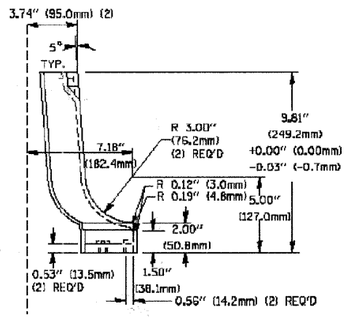
SECTION D-D



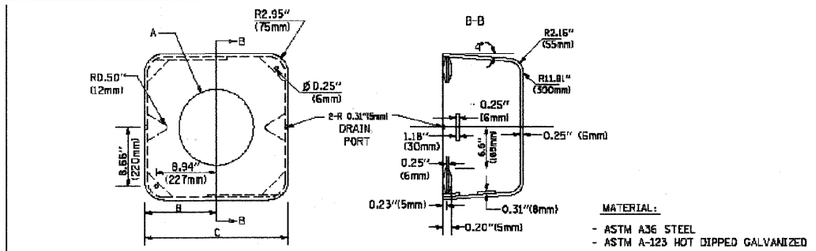
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



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

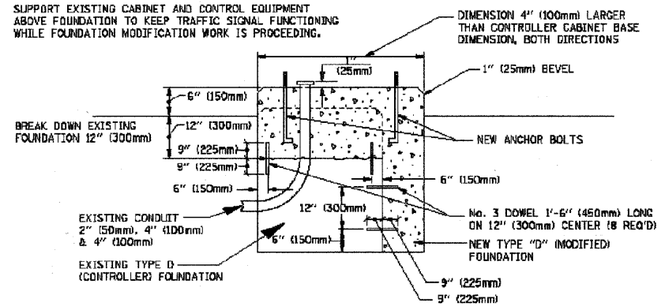
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

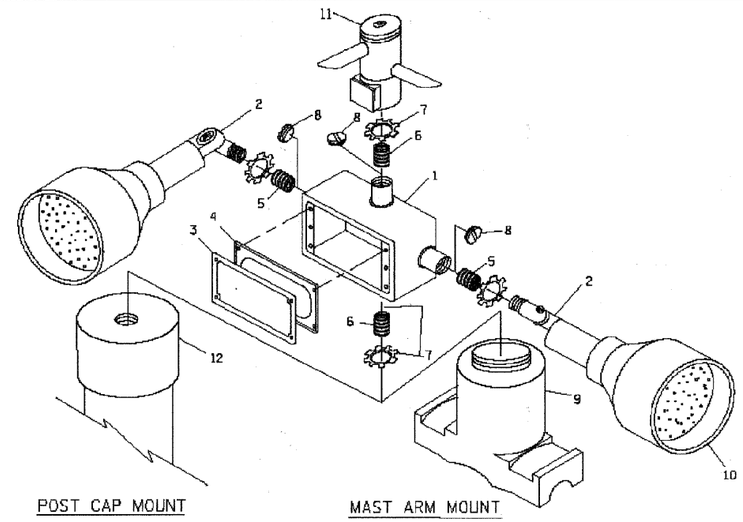
NOTES:

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

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



MODIFY EXISTING TYPE "D" FOUNDATION



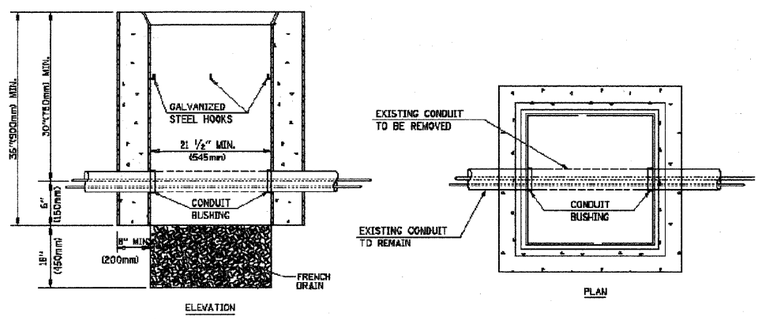
POST CAP MOUNT MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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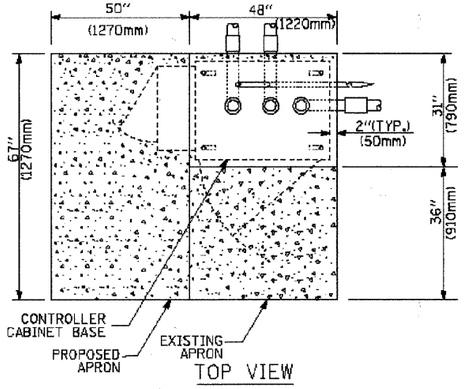
FILE NAME = g:\ch28\80145\road\sheets\8145-TS-285_STD4.sht	USER NAME = CEComm	DESIGNED DAG	REVISED -
		DRAWN BCK	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED DAD	REVISED -
	PLOT DATE = 6/3/2011	DATE 10/28/09 I	REVISED -

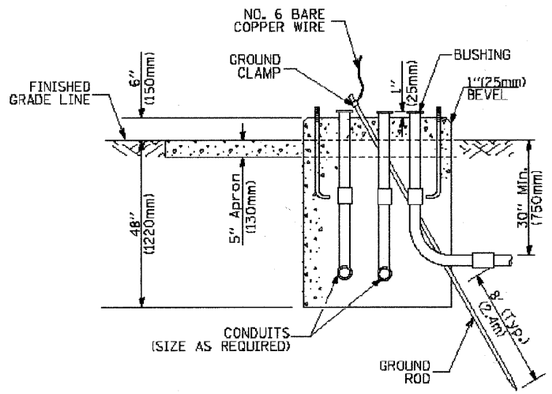
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – STANDARD TRAFFIC SIGNAL DESIGN DETAILS

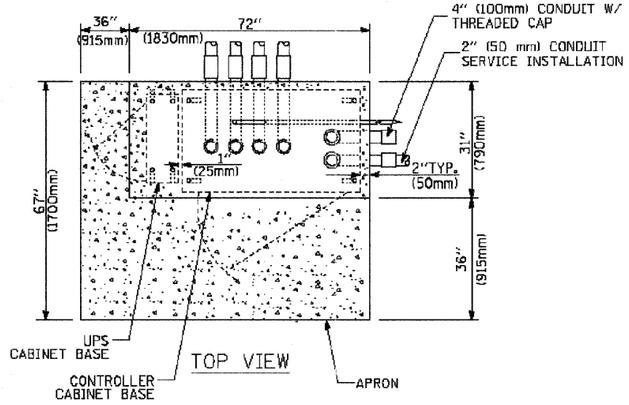
SCALE: N.T.S. | SHEET NO. 30 OF 33 SHEETS | STA. | TO STA.

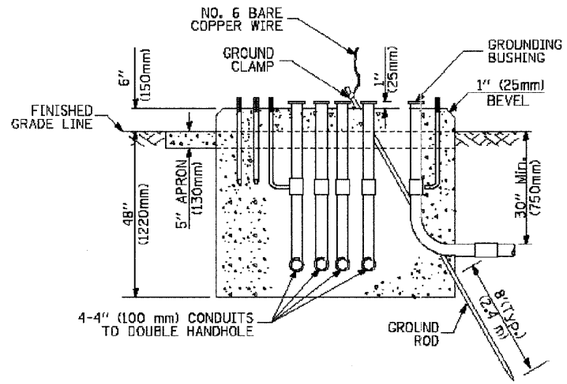
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	87
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



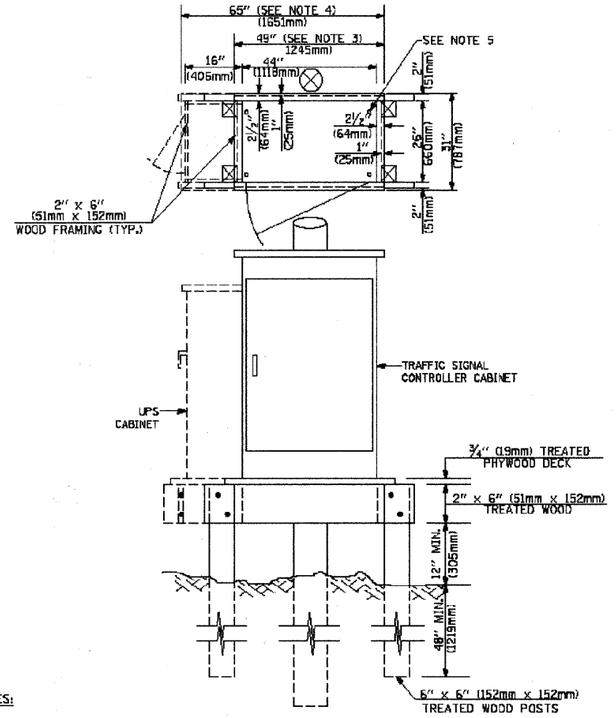


TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET





TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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FILE NAME = gt\ch80\0045\road\sheets\0045-TS-206.STDS.sht	USER NAME = CEComin	DESIGNED DAG	REVISED -
		DRAWN BCK	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED DAD	REVISED -
	PLOT DATE = 6/3/2011	DATE 10/28/0011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. | SHEET NO. 31 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	88
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

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

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

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

RAILROAD SYMBOLS

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

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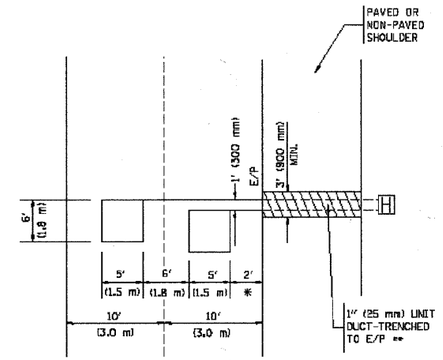
FILE NAME = g:\ch08\0045\road\sheets\0045-TS-207.STD6.sht	USER NAME = CEComan	DESIGNED DAG/BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 350; SECTION 00-00243-00-CH; COUNTY COOK; TOTAL SHEETS 142; SHEET NO. 89
	PLOT SCALE = 20.000 ' / IN.	DRAWN BCK	REVISED -		SCALE: N.T.S.	CONTRACT NO. 63566
	PLOT DATE = 10/26/2011	CHECKED DAD	REVISED -		SHEET NO. 32 OF 33 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
		DATE 10/28/09	REVISED -			

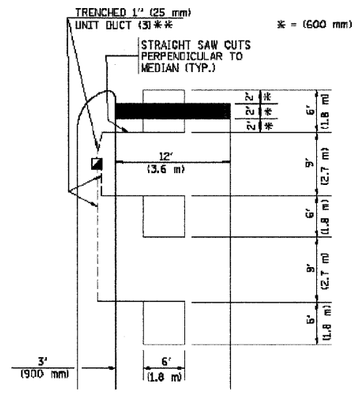
LOOPS NEXT TO SHOULDERS



* = (600 mm)

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

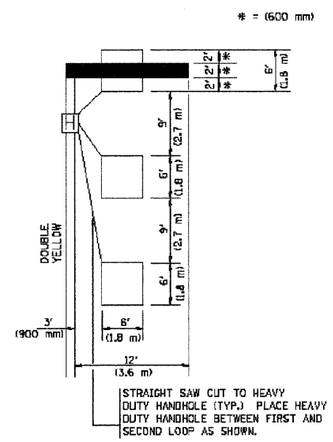
LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



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

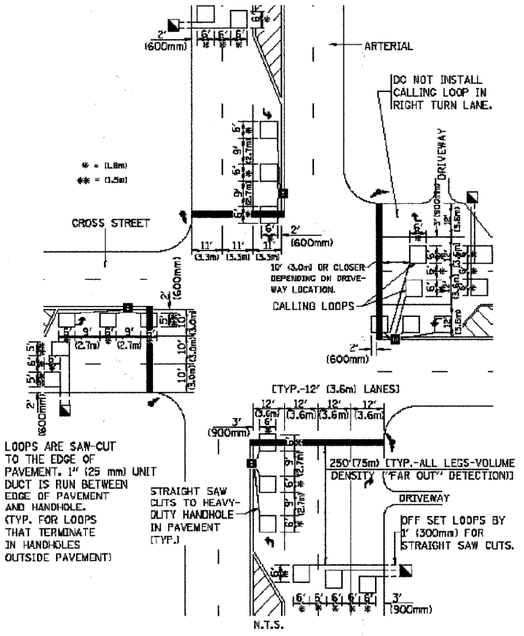
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



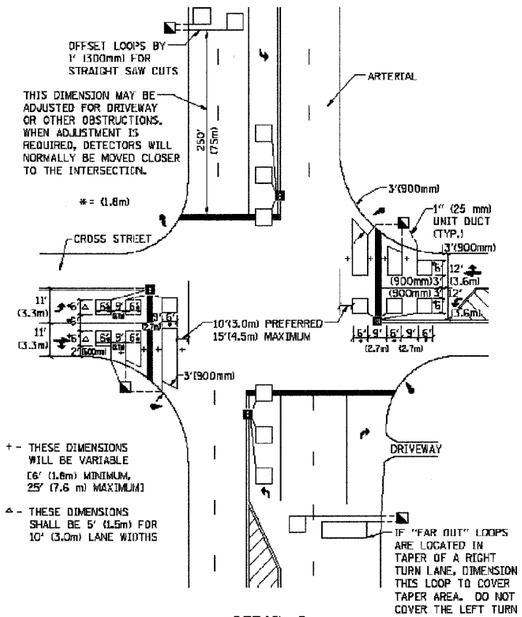
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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 SEPARATLY. 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.

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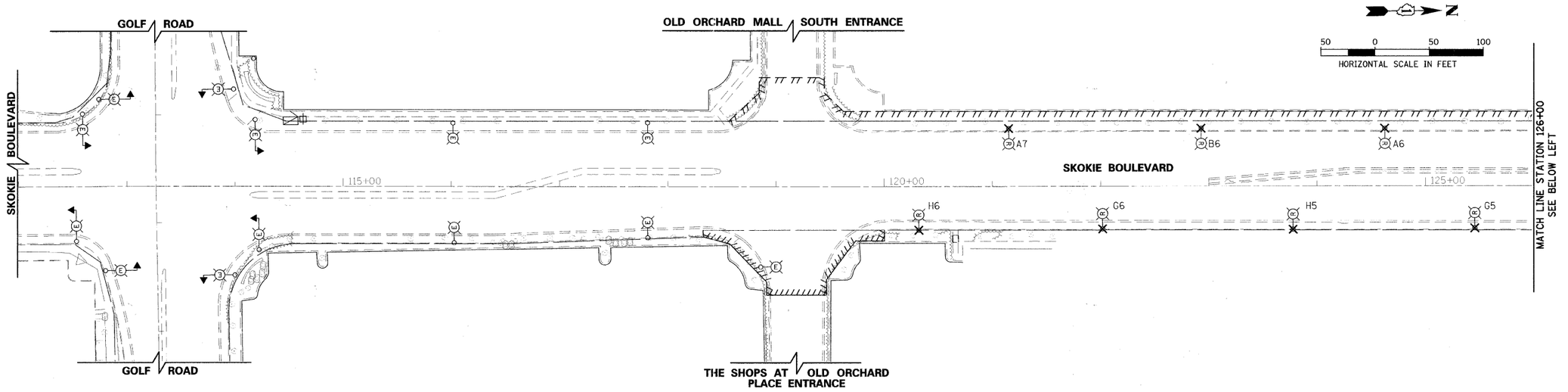
	PLOT DATE = 12/26/2011	DATE	REVISED -

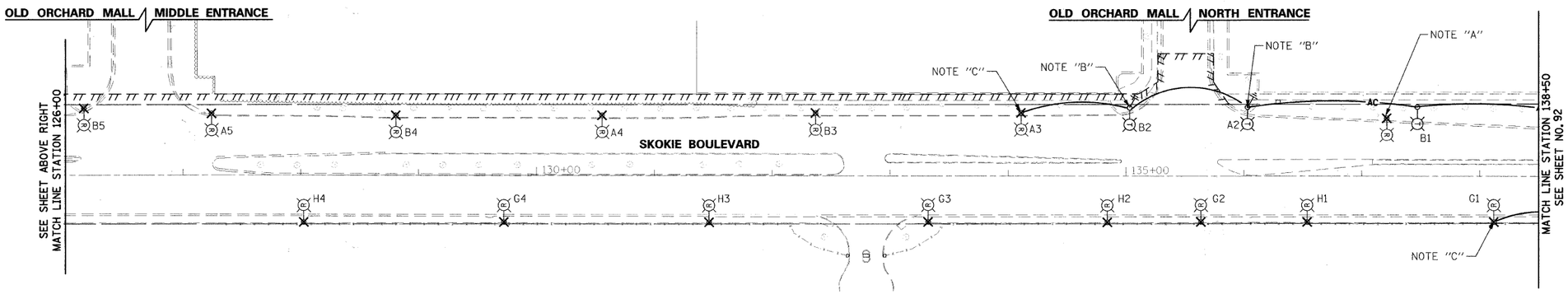
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING TS-07

SCALE: N.T.S. | SHEET NO. 33 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	90
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		





LEGEND

- TEMPORARY ROADWAY LIGHTING UNIT: POLE: TEMPORARY WOOD POLE, 60FT, CLASS 4, 15' MAST ARM LUMINAIRE: 400W HIGH PRESSURE SODIUM, 240V
- EXISTING ROADWAY LIGHTING UNIT TO REMAIN
- EXISTING COMBINATION LIGHTING UNIT TO REMAIN
- EXISTING COMBINATION LIGHTING UNIT TO BE REMOVED
- REMOVAL OF EXISTING LIGHTING UNIT
- EXISTING SERVICE INSTALLATION, 240/480V, 1ø, 3 WIRE
- PROPOSED SERVICE INSTALLATION, 240/480V, 1ø, 3 WIRE
- TEMPORARY WOOD POLE, 50 FT, CLASS 4
- EXISTING LIGHTING CONTROLLER CABINET
- TEMPORARY LIGHTING CONTROLLER
- GROUND ROD, ⅝ INCH x 10 FEET
- AC — AERIAL CABLE 3-1/C NO 4 WITH MESSENGER WIRE

TEMPORARY LIGHTING NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
2. THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
3. TEMPORARY LIGHTS SHALL BE MOUNTED ON THE TEMPORARY TRAFFIC SIGNAL POLES AT THE INTERSECTIONS. THE LOCATION OF TEMPORARY WOOD POLES SHALL BE COORDINATED WITH THE TRAFFIC SIGNAL CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
4. FOR TEMPORARY LIGHT POLE LOCATION AT INTERSECTIONS, SEE TEMPORARY TRAFFIC SIGNAL PLAN. SEE SHEET NO. 58 AND 66
5. TEMPORARY LIGHTING POLES (OTHER THAN AT INTERSECTIONS) SHALL BE INSTALLED AT SUGGESTED LOCATIONS TO PROVIDE LIGHTING WHERE EXISTING LIGHT POLE WILL BE REMOVED PRIOR TO STAGE 1. ALL OTHER EXISTING LIGHT POLES SHALL REMAIN UNTIL THE PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
6. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE THE REMOVAL OF EXISTING LIGHTS.

NOTE "A"
LIGHT POLE TO BE REMOVED PRIOR TO STAGE 1

NOTE "B"
LIGHT MAST ARM TO BE INSTALLED ON WOODEN POLE OF TEMPORARY TRAFFIC SIGNAL AT 45' MOUNTING HEIGHT

NOTE "C"
AERIAL CABLE TO BE CONNECTED TO THE UNDERGROUND CABLE THROUGH EXISTING LIGHT POLE TO PROVIDE POWER TO THE REMAINING POLES ON THE CIRCUIT.

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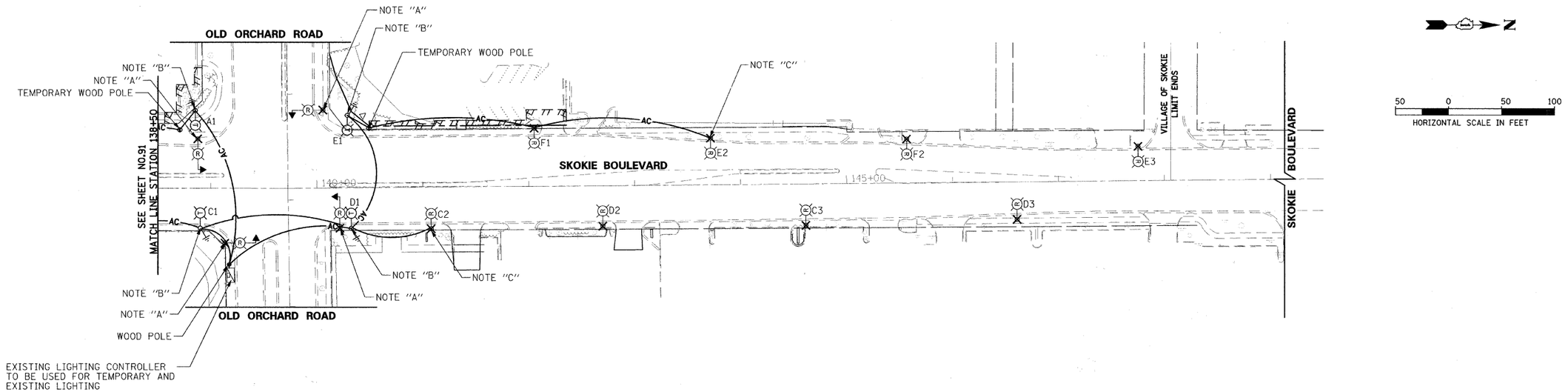
	PLOT DATE = 7/25/2011	DATE 07/22/2011	REVISED -

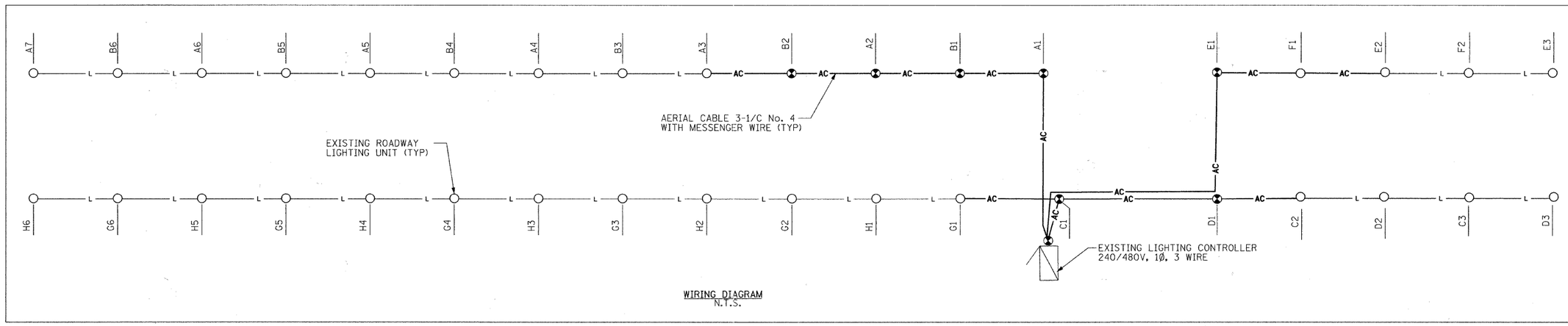
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SKOKIE BOULEVARD (U.S. ROUTE 41)
TEMPORARY LIGHTING AND REMOVAL PLAN

SCALE: 1"=50' | SHEET NO. 1 OF 12 SHEETS | STA. 117+00 TO STA. 137+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	91
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		





WIRING DIAGRAM
N.T.S.

LEGEND

- TEMPORARY ROADWAY LIGHTING UNIT: POLE: TEMPORARY WOOD POLE, 60FT, CLASS 4, 15' MAST ARM LUMINAIRE: 400W HIGH PRESSURE SODIUM, 240V
- EXISTING ROADWAY LIGHTING UNIT TO REMAIN
- EXISTING COMBINATION LIGHTING UNIT TO REMAIN
- EXISTING COMBINATION LIGHTING UNIT TO BE REMOVED
- REMOVAL OF EXISTING LIGHTING UNIT
- EXISTING SERVICE INSTALLATION, 240/480V, 1Ø, 3 WIRE
- PROPOSED SERVICE INSTALLATION, 240/480V, 1Ø, 3 WIRE
- TEMPORARY WOOD POLE, 50 FT, CLASS 4
- EXISTING LIGHTING CONTROLLER CABINET
- TEMPORARY LIGHTING CONTROLLER
- GROUND ROD, ⅝ INCH x 10 FEET
- AC — AERIAL CABLE 3-1/C NO 4 WITH MESSENGER WIRE
- L — L — EXISTING UNIT DUCT

TEMPORARY LIGHTING NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
2. THE COST TO PROVIDE TEMPORARY CONNECTIONS TO EXISTING CONTROLLERS AND TEMPORARY LIGHTING UNITS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR AERIAL CABLE.
3. TEMPORARY LIGHTS SHALL BE MOUNTED ON THE TEMPORARY TRAFFIC SIGNAL POLES AT THE INTERSECTIONS. THE LOCATION OF TEMPORARY WOOD POLES SHALL BE COORDINATED WITH THE TRAFFIC SIGNAL CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
4. FOR TEMPORARY LIGHT POLE LOCATION AT INTERSECTIONS, SEE TEMPORARY TRAFFIC SIGNAL PLAN. SEE SHEET NO. 58 AND 66
5. TEMPORARY LIGHTING POLES (OTHER THAN AT INTERSECTIONS) SHALL BE INSTALLED AT SUGGESTED LOCATIONS TO PROVIDE LIGHTING WHERE EXISTING LIGHT POLE WILL BE REMOVED IN THE PRE-STAGE. ALL OTHER EXISTING LIGHT POLES SHALL REMAIN UNTIL THE PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
6. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE THE REMOVAL OF EXISTING LIGHTS.

NOTE "A"
LIGHT POLE TO BE REMOVED
IN PRE-STAGE

NOTE "B"
LIGHT MAST ARM TO BE INSTALLED
ON WOODEN POLE OF TEMPORARY
TRAFFIC SIGNAL

NOTE "C"
AERIAL CABLE TO BE CONNECTED
TO THE UNDERGROUND CABLE
THROUGH EXISTING LIGHT POLE
TO PROVIDE POWER TO THE
REMAINING POLES ON THE CIRCUIT.

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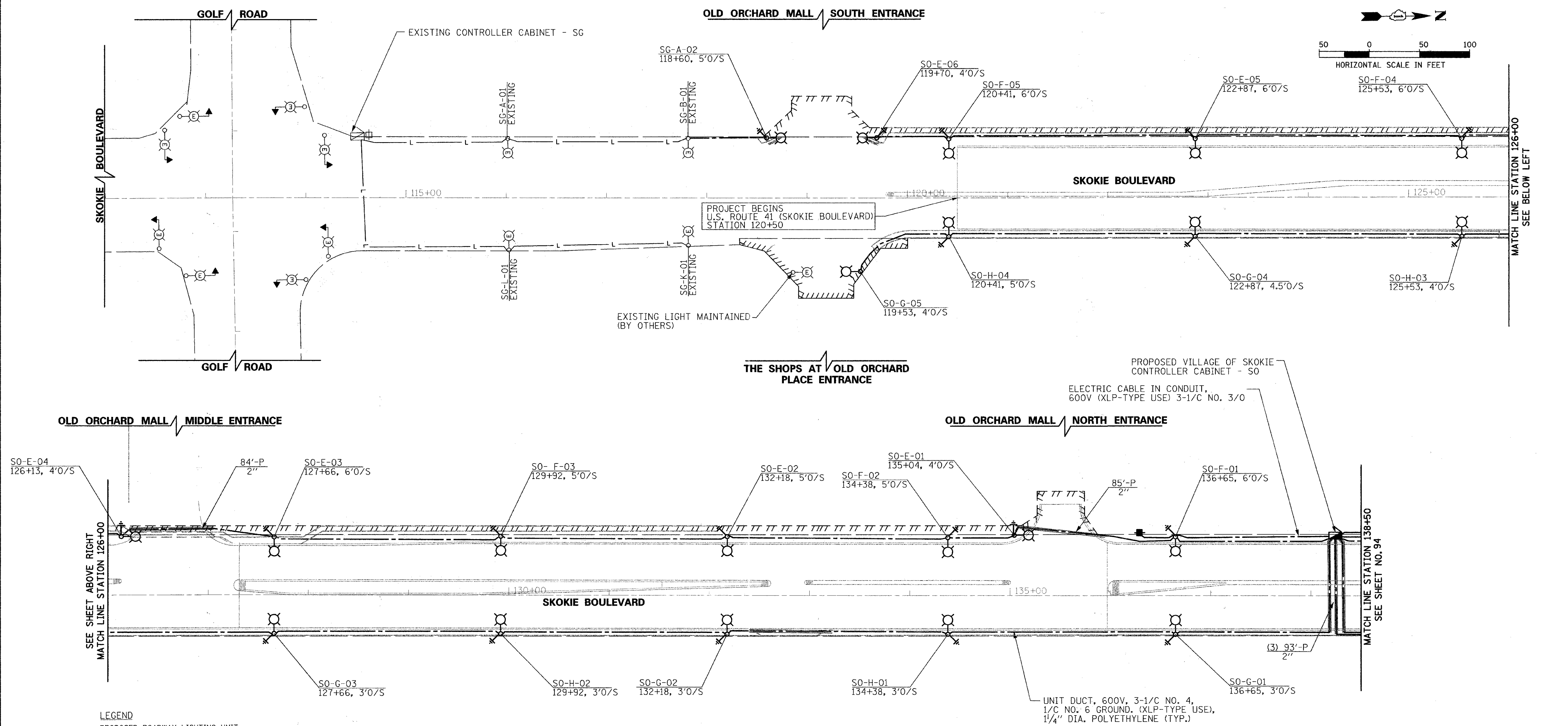
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SKOKIE BOULEVARD (U.S. ROUTE 41)
AND OLD ORCHARD ROAD
TEMPORARY LIGHTING AND REMOVAL PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 12 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	92
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



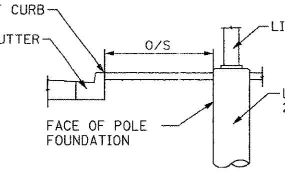
LEGEND

- PROPOSED ROADWAY LIGHTING UNIT
  POLE: ALUMINUM, 45' M.H., 15' TRUSS MAST ARM
  LUMINAIRE: 400W HPS, CUTOFF, FLAT GLASS
- PROPOSED COMBINATION LIGHTING AND TRAFFIC SIGNAL UNIT
  POLE: ALUMINUM, 45' M.H., 15' TRUSS MAST ARM
  LUMINAIRE: 400W HPS, CUTOFF, FLAT GLASS
- EXISTING ROADWAY LIGHTING UNIT TO REMAIN
- EXISTING COMBINATION LIGHTING UNIT TO REMAIN
- EXISTING SERVICE INSTALLATION, 240/480V, 1Ø, 3 WIRE
- PROPOSED SERVICE INSTALLATION, 240/480V, 1Ø, 3 WIRE
- EXISTING LIGHTING CONTROLLER CABINET
- PROPOSED VILLAGE OF SKOKIE LIGHTING CONTROLLER SINGLE DOOR CONSOLE TYPE
- GROUND ROD, ⅝ INCH × 10 FEET
- H HANDHOLE
- UNIT DUCT, 600V, 3-1/C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1¼" DIA. POLYETHYLENE
- L EXISTING UNIT DUCT
- "P" PUSHED CONDUIT
- "T" TRENCHED CONDUIT
- CONDUIT PUSHED (P), 2" DIA. GALVANIZED STEEL (UNLESS OTHERWISE NOTED)

CIRCUIT DESIGNATION SCHEME

XX-X-XX
XXX+XX, XX O/S

- LIGHTING CONTROLLER DESIGNATION
- CIRCUIT
- POLE NO. ON GIVEN CIRCUIT
- OFFSET FROM BACK OF CURB TO FACE OF POLE FOUNDATION
- LIGHT POLE STATION



SET BACK DETAIL

GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE RESIDENT ENGINEER. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE RESIDENT ENGINEER PRIOR TO STARTING WORK.
2. PROPOSED ROADWAY LIGHT POLES SHALL HAVE A SET-BACK OF 4.0 FEET (MIN) FROM THE BACK OF CURB TO THE CENTER OF POLE, UNLESS OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. A GROUND ROD SHALL BE PROVIDED FOR EACH CONCRETE FOUNDATION. GROUNDING CONNECTIONS MADE TO THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED IN THE PLAN DETAILS. GROUND ROD SHALL BE INCLUDED IN THE FOUNDATION PAY ITEM.
4. THE CONTRACTOR SHALL NOTE THE REQUIREMENTS FOR THE ELECTRICAL SERVICE FOR THE PROPOSED ROADWAY LIGHTING. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRIC UTILITY COMPANY.
5. PARALLEL UNIT DUCT RUNS SHOWN ON THE PLANS SHALL BE PLACED IN A COMMON TRENCH.
6. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
7. ALL CONDUIT IS PUSHED UNLESS OTHERWISE NOTED. CONDUIT LENGTHS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL DISTANCE REQUIREMENTS IN THE FIELD.
8. THE EXISTING LIGHT POLES SHALL BE DISPOSED OR SALVAGED AS DIRECTED BY THE ENGINEER. THE POLE SHALL BE DISPOSED BY THE CONTRACTOR AT NO COST TO THE VILLAGE. THE SALVAGED POLES AND LUMINAIRES SHALL BE DELIVERED TO THE VILLAGE OF SKOKIE PUBLIC WORKS DEPARTMENT AT 9050 GROSS POINT ROAD.

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	PLOT DATE = 7/25/2011	DATE 07/22/2011	REVISED -

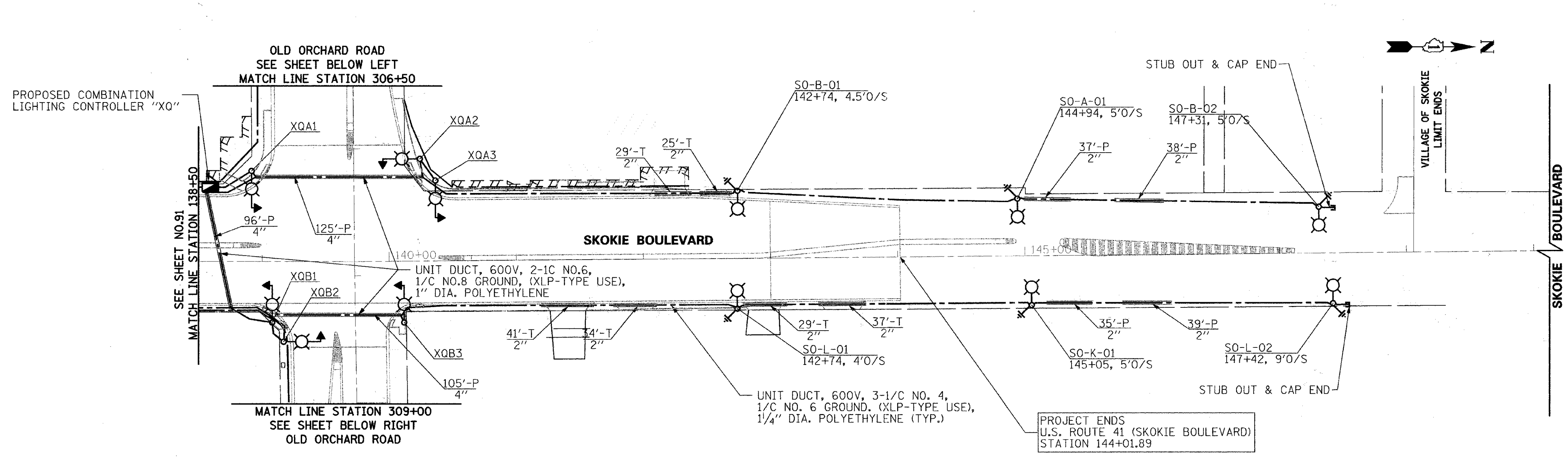
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SKOKIE BOULEVARD (U.S. ROUTE 41)
ROADWAY LIGHTING PLAN

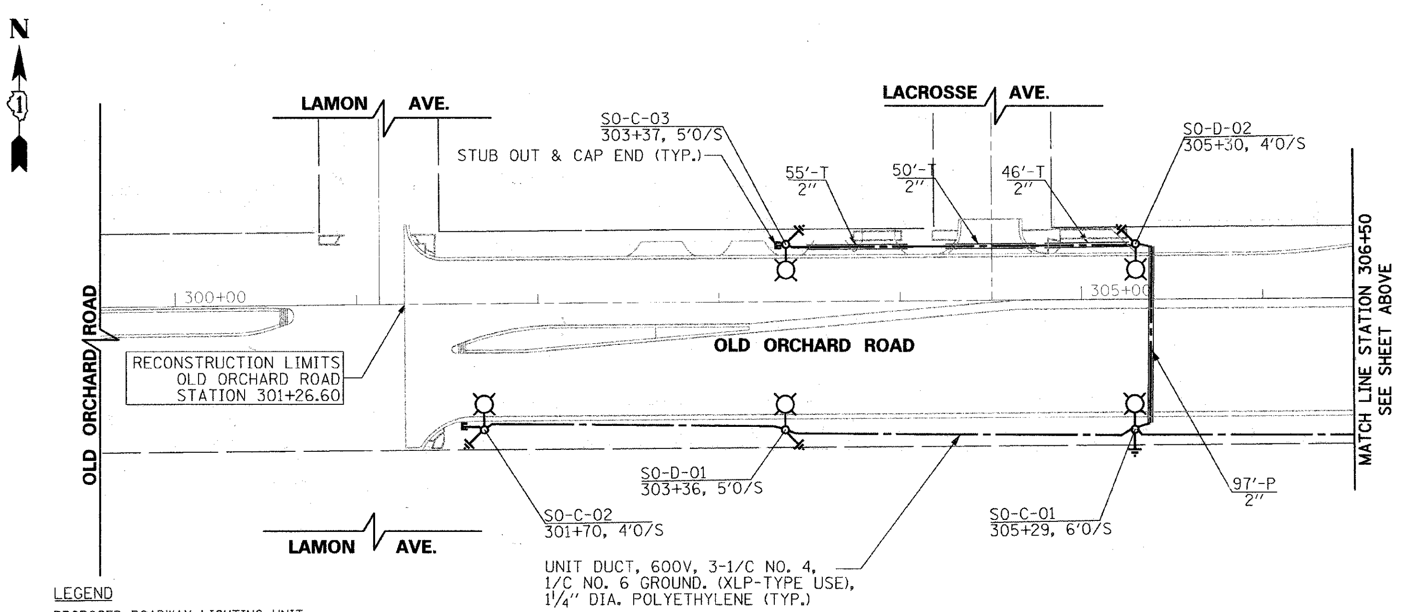
SCALE: 1"=50' | SHEET NO. 3 OF 12 SHEETS | STA. 117+00 TO STA. 137+00

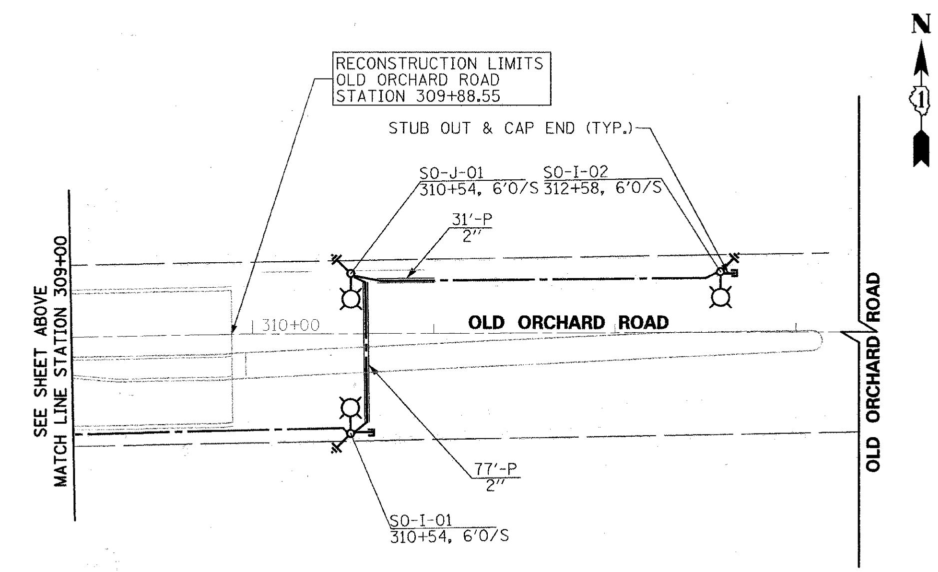
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	93
		CONTRACT NO. 63566		

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT



50 0 50 100
HORIZONTAL SCALE IN FEET



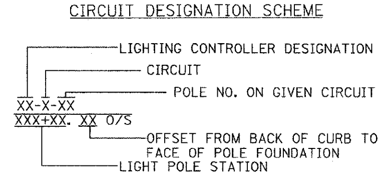


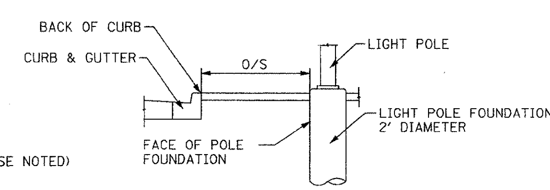
LEGEND

- PROPOSED ROADWAY LIGHTING UNIT
  POLE: ALUMINUM, 45' M.H., 15' TRUSS MAST ARM
  LUMINAIRE: 400W HPS, CUTOFF, FLAT GLASS
- PROPOSED COMBINATION LIGHTING AND TRAFFIC SIGNAL UNIT
  POLE: ALUMINUM, 45' M.H., 15' TRUSS MAST ARM
  LUMINAIRE: 400W HPS, CUTOFF, FLAT GLASS
- EXISTING ROADWAY LIGHTING UNIT TO REMAIN
- EXISTING COMBINATION LIGHTING UNIT TO REMAIN
- EXISTING SERVICE INSTALLATION, 240/480V, 1Ø, 3 WIRE
- PROPOSED SERVICE INSTALLATION, 240/480V, 1Ø, 3 WIRE
- EXISTING LIGHTING CONTROLLER CABINET
- PROPOSED VILLAGE OF SKOKIE LIGHTING CONTROLLER
  SINGLE DOOR CONSOLE TYPE
- GROUND ROD, 5/8 INCH x 10 FEET
- HANDHOLE
- UNIT DUCT, 600V, 3-1/C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1¼" DIA. POLYETHYLENE
- EXISTING UNIT DUCT

"P" PUSHED CONDUIT
"T" TRENCHED CONDUIT
CONDUIT PUSHED (P), 2" DIA. GALVANIZED STEEL (UNLESS OTHERWISE NOTED)

CIRCUIT DESIGNATION SCHEME





SET BACK DETAIL

GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE RESIDENT ENGINEER. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE RESIDENT ENGINEER PRIOR TO STARTING WORK.
2. PROPOSED ROADWAY LIGHT POLES SHALL HAVE A SET-BACK OF 4.0 FEET (MIN) FROM THE BACK OF CURB TO THE CENTER OF POLE, UNLESS OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. A GROUND ROD SHALL BE PROVIDED FOR EACH CONCRETE FOUNDATION. GROUNDING CONNECTIONS MADE TO THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED IN THE PLAN DETAILS. GROUND ROD SHALL BE INCLUDED IN THE FOUNDATION PAY ITEM.
4. THE CONTRACTOR SHALL NOTE THE REQUIREMENTS FOR THE ELECTRICAL SERVICE FOR THE PROPOSED ROADWAY LIGHTING. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRIC UTILITY COMPANY.
5. PARALLEL UNIT DUCT RUNS SHOWN ON THE PLANS SHALL BE PLACED IN A COMMON TRENCH.
6. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
7. ALL CONDUIT IS PUSHED UNLESS OTHERWISE NOTED. CONDUIT LENGTHS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL DISTANCE REQUIREMENTS IN THE FIELD.
8. THE EXISTING LIGHT POLES SHALL BE DISPOSED OR SALVAGED AS DIRECTED BY THE ENGINEER. THE POLE SHALL BE DISPOSED BY THE CONTRACTOR AT NO COST TO THE VILLAGE. THE SALVAGED POLES AND LUMINAIRES SHALL BE DELIVERED TO THE VILLAGE OF SKOKIE PUBLIC WORKS DEPARTMENT AT 9050 GROSS POINT ROAD.

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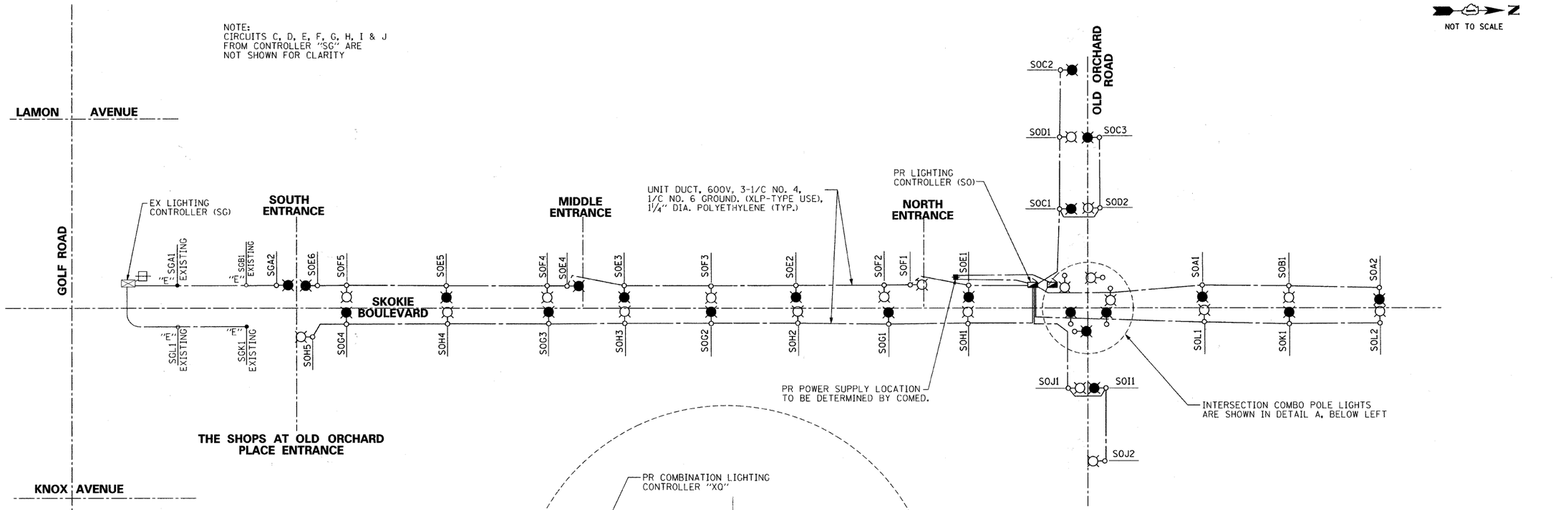
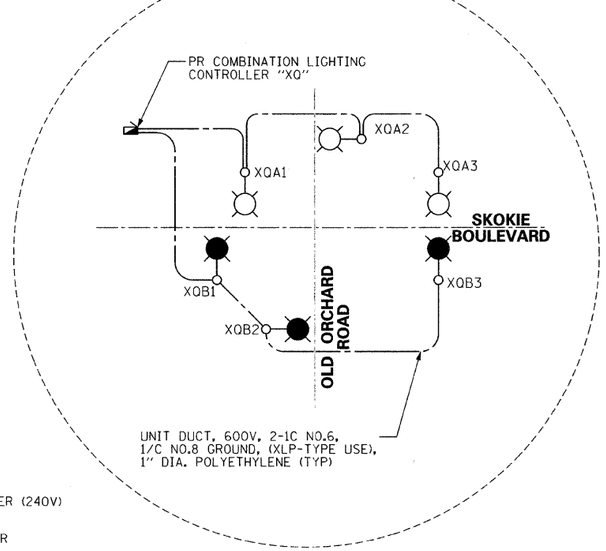
(847) 605-9600

NOTE:
CIRCUITS C, D, E, F, G, H, I & J
FROM CONTROLLER "SG" ARE
NOT SHOWN FOR CLARITY

NOT TO SCALE





DETAIL A

LOAD TABULATION

PROPOSED CONTROLLER AT OLD ORCHARD (CONTROLLER – SO)				
CIRCUIT	NO. OF LIGHTS	AMPS BLACK	AMPS RED	WATTAGE
A	2	3.7	-	800
B	1	-	1.8	400
C	3	5.5	-	1,200
D	2	-	3.7	800
E	6	11.0	-	2,400
F	5	-	9.2	2,000
G	4	7.3	-	1,600
H	5	-	9.2	2,000
I	1	1.8	-	400
J	2	-	3.7	800
K	1	1.8	-	400
L	2	-	3.7	800
TOTAL	34	31.1	31.3	13,600

LEGEND

——E——	EXISTING CABLE
———	PROPOSED CABLE
	PROPOSED CONTROLLER (240V)
	EXISTING CONTROLLER
	PROPOSED SERVICE CONNECTION
	EXISTING SERVICE CONNECTION
XXXX / XX+XX	LIGHT POLE CIRCUIT / STATION
"E"	EXISTING LUMINAIRE
	LUMINAIRE, HPS, 400W, 240V, ON RED WIRE
	LUMINAIRE, HPS, 400W, 240V, ON BLACK WIRE

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	ELECTRIC SERVICE INSTALLATION
1	L SUM	ELECTRIC UTILITY SERVICE CONNECTION
1,148	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
326	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
500	FOOT	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
7,700	FOOT	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
600	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0
1,600	FOOT	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE
35	EACH	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. MAST ARM
350	FOOT	LIGHT POLE FOUNDATION, 24" DIAMETER
30	EACH	REMOVAL OF LIGHTING UNIT, SALVAGE
30	EACH	REMOVAL OF POLE FOUNDATION
1	EACH	REMOVAL OF LIGHTING CONTROLLER
6	EACH	TEMPORARY MAST ARM 15 FT.
1	EACH	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM
1	EACH	TEMPORARY WOOD POLE, 50 FT., CLASS 4
41	EACH	LUMINAIRE, STREET LIGHTING, HIGH PRESSURE SODIUM VAPOR, 400 WATT, 240 VOLT
1	EACH	LIGHTING CONTROLLER, SPECIAL
50	FOOT	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET
7	EACH	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT
41	EACH	LUMINAIRE SAFETY CABLE ASSEMBLY
15	CAL MO	MAINTENANCE OF LIGHTING SYSTEM

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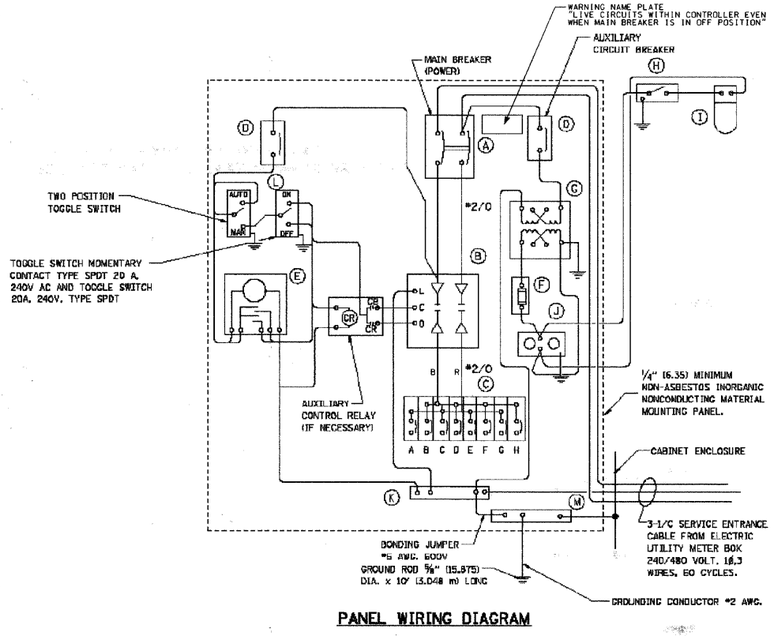
FILE NAME = g:\ch2M\0045\road\sheets\0045-RL-205_WIRE.sht	USER NAME = CEComin	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED LGB	REVISED -
	PLOT DATE = 11/4/2011	DATE 11/07/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

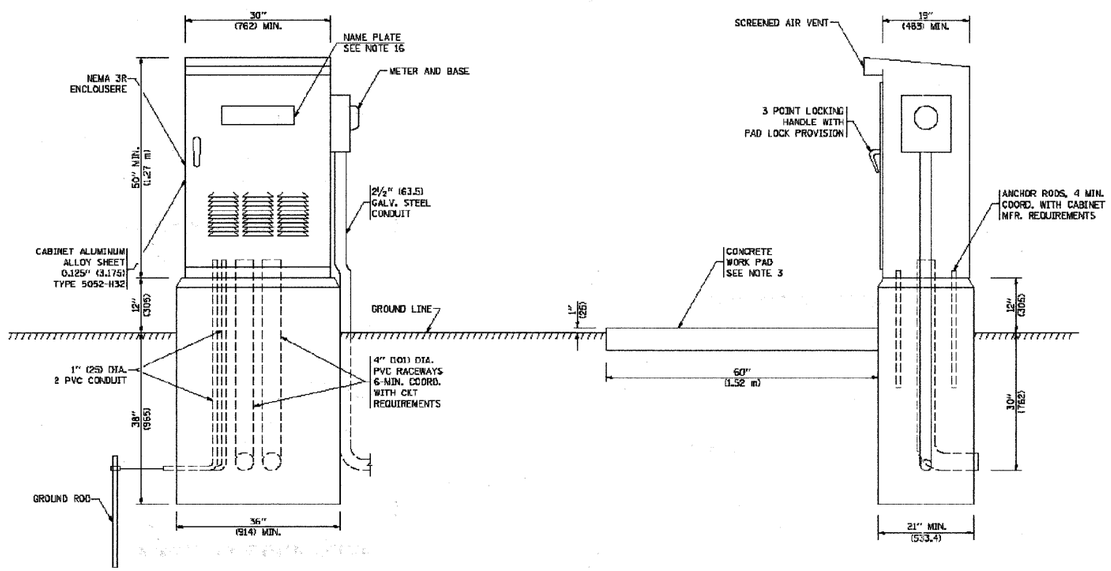
SKOKIE BOULEVARD (U.S. ROUTE 41) AND NORTH ENTRANCE
ROADWAY LIGHTING WIRING DIAGRAM & SCHEDULE OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 5 OF 12 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	95
		CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



PANEL WIRING DIAGRAM



PANEL EQUIPMENT

BILL OF MATERIAL

ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME , 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH).
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN,
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
4. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
6. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
8. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
9. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
10. CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
12. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
    R = RED BL = BLUE W = WHITE
    B = BLACK Y = YELLOW G = GREEN
13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
14. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
17. THE CONTROLLER SHALL BE SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.

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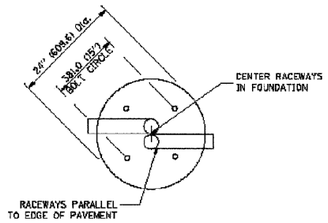
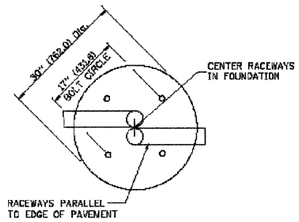
FILE NAME = g:\ch80\0045\road\sheets\0045-RL-206.BE215.sht	USER NAME = CEComin	DESIGNED FA	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DISTRICT ONE – LIGHTING CONTROLLER SINGLE DOOR**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN FA	REVISED -			350	00-00243-00-CH	COOK	142	96
	PLOT SCALE = 20.000 ' / IN.	CHECKED LGB	REVISED -				BE-215	CONTRACT NO. 63566		
	PLOT DATE = 6/3/2011	DATE 06/03/2011	REVISED -		SCALE: N.T.S. SHEET NO. 6 OF 12 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

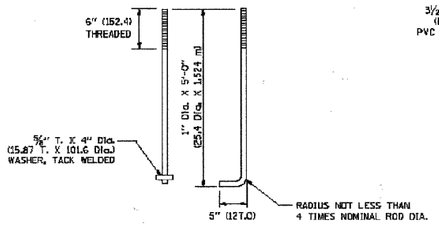
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.89 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND ϕ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND ϕ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND ϕ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



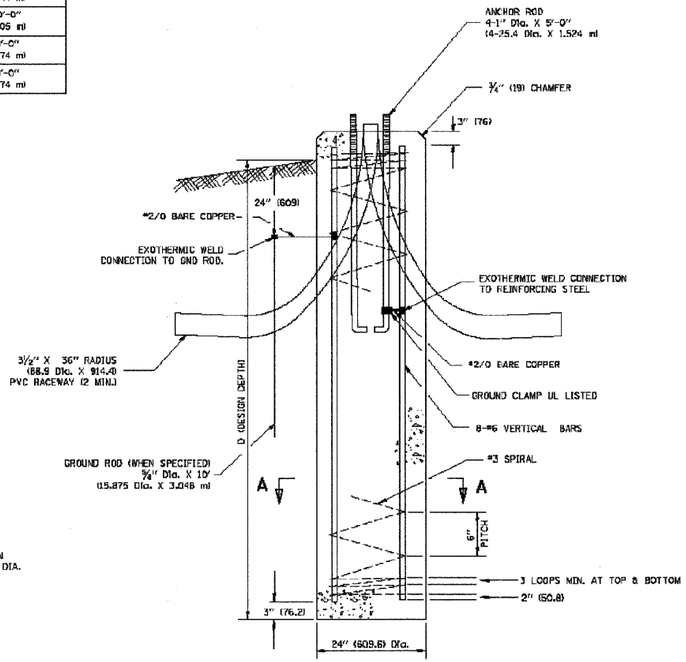
TOP VIEW



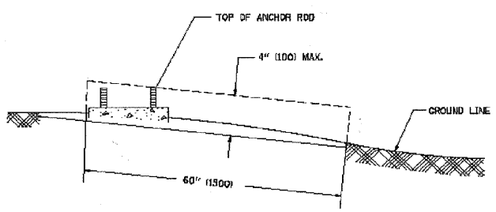
TOP VIEW



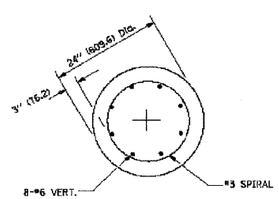
ANCHOR ROD DETAIL



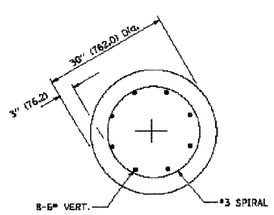
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED ¾-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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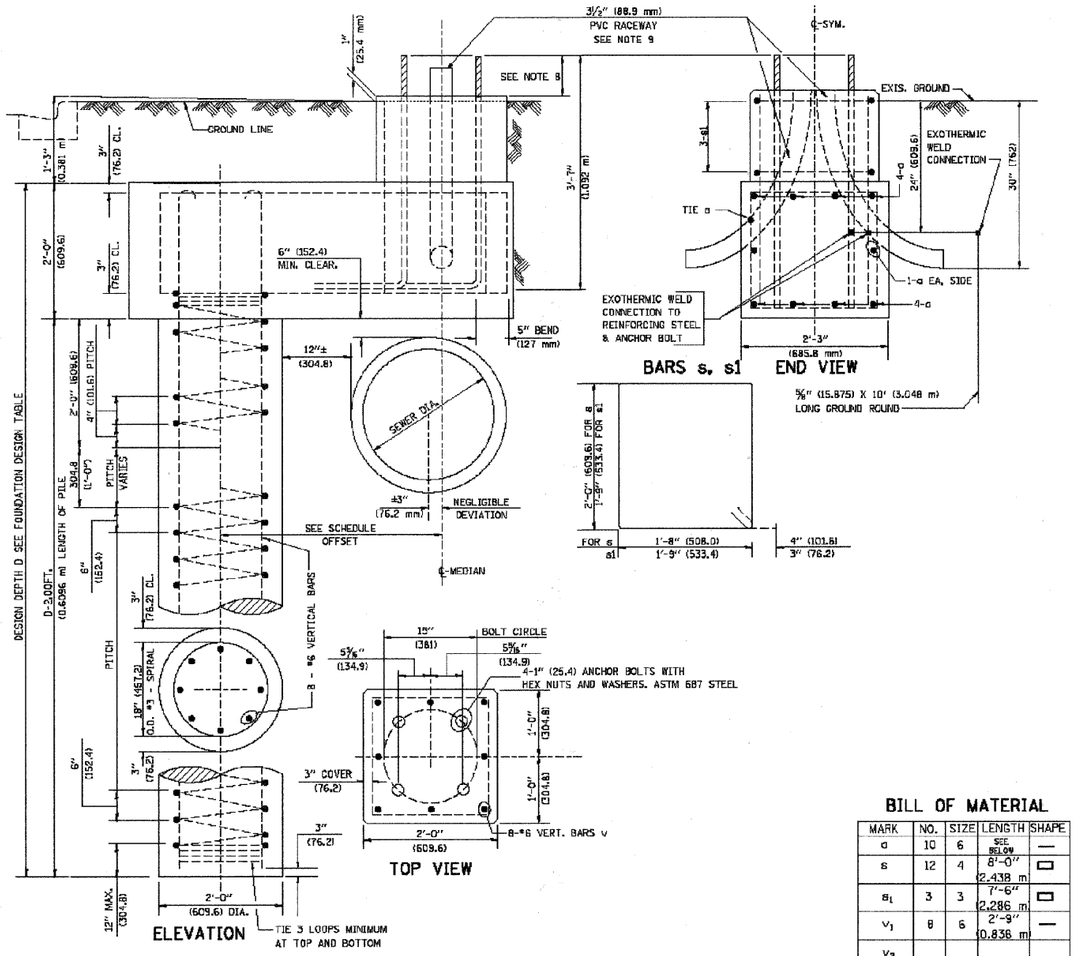
FILE NAME = W:\diststd \ 22x34\be301.dgn	USER NAME = gaglianobt	DESIGNED	REVISED - 04/22/02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE – LIGHT POLE FOUNDATION 40' TO 47 1/2' M.H. 15" BOLT CIRCLE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN	REVISED -			350	00-00243-00-CH	COOK	142	97
	PLOT SCALE = 20.000 ' / IN.	CHECKED	REVISED -				BE-301	CONTRACT NO. 63566		
	PLOT DATE = 11/4/2011	DATE	REVISED -		SCALE: N.T.S. SHEET NO. 7 OF 12 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

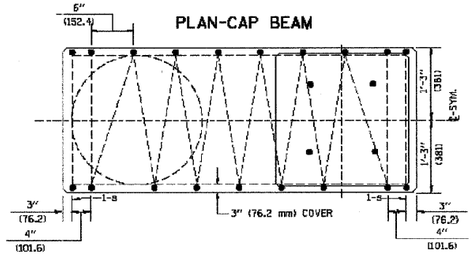
FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
			SINGLE ARM		TWIN ARM	
	SINGLE ARM D	TWIN ARM D	VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
4. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
5. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
6. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
7. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2¾" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
8. RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.





BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m	□
s_1	3	3	7'-6" (2.286 m	□
v_1	8	6	2'-9" (0.838 m)	—
v_2				

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from℄-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 m)TO	3'-9"	5'-8"
36" (914.4 mm)	(1.143 m)	(1.753 m)
42" (1066.8 mm) TO	4'-6"	6'-6"
48" (1219.2 mm)	(1.372 m)	(1.981 m)
54" (1371.6 mm) TO	5'-0"	7'-0"
60" (1524.0 mm)	(1.524 m)	(2.134 m)
66" (1676.4 mm) TO	5'-6"	7'-6"
72" (1828.8 mm)	(1.676 m)	(2.286 m)

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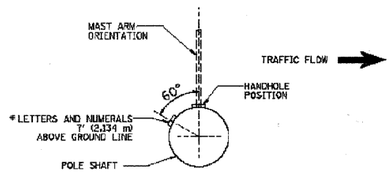
FILE NAME = K:\dist\std22x34\be338.dgn	USER NAME = bauerdl	DESIGNED	REVISED - 06/16/08 R. TOMSONS
		DRAWN	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED	REVISED -
	PLOT DATE = 11/4/2011	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

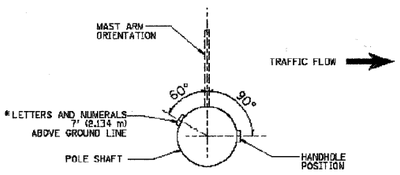
DISTRICT ONE – LIGHT POLE FOUNDATION OFFSET 40' TO 47 1/2' M.H. 15" BOLT CIRCLE

SCALE: N.T.S. | SHEET NO. 8 OF 12 SHEETS | STA. | TO STA.

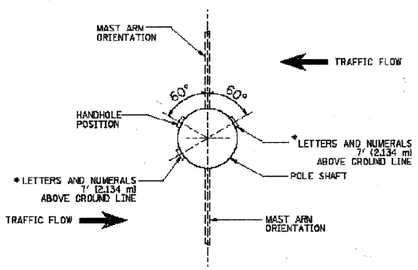
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	98
	BE-310	CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



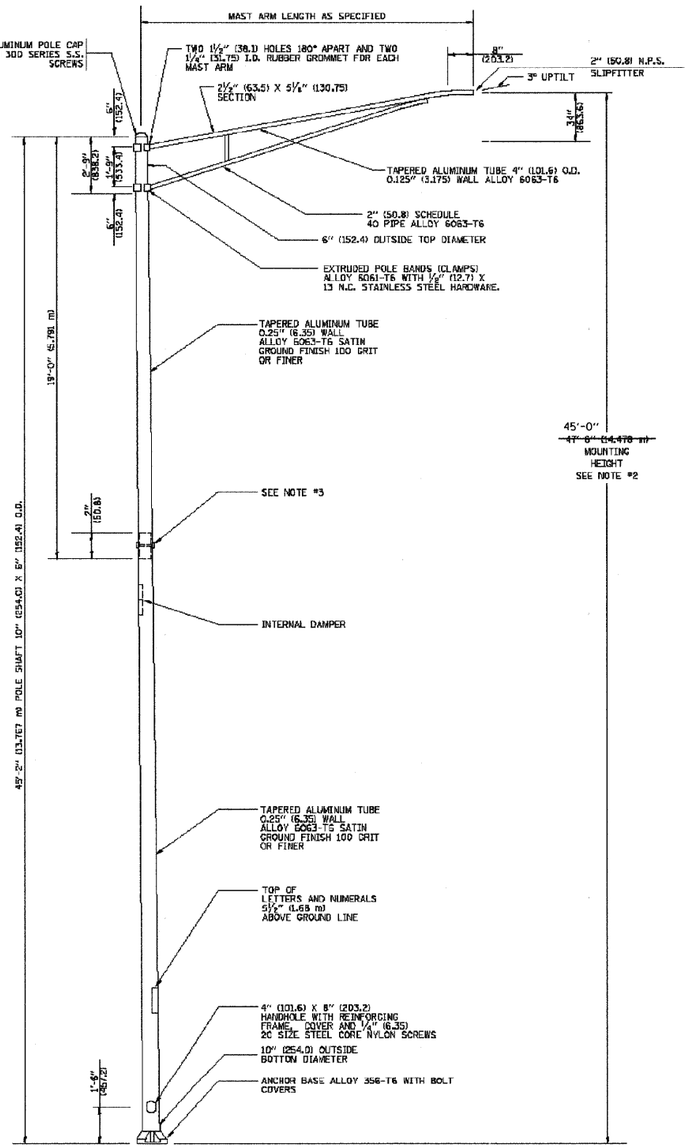
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

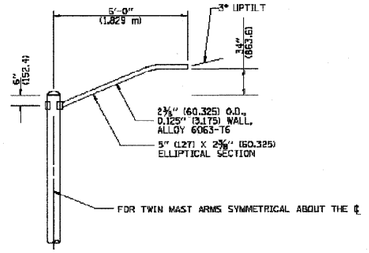


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

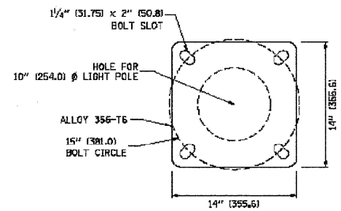




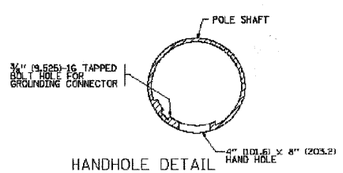
6' (1.8 m) SINGLE MEMBER MAST ARM
(N.T.S.)

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2123, T&B SP40L OR APPROVED EQUAL.
6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

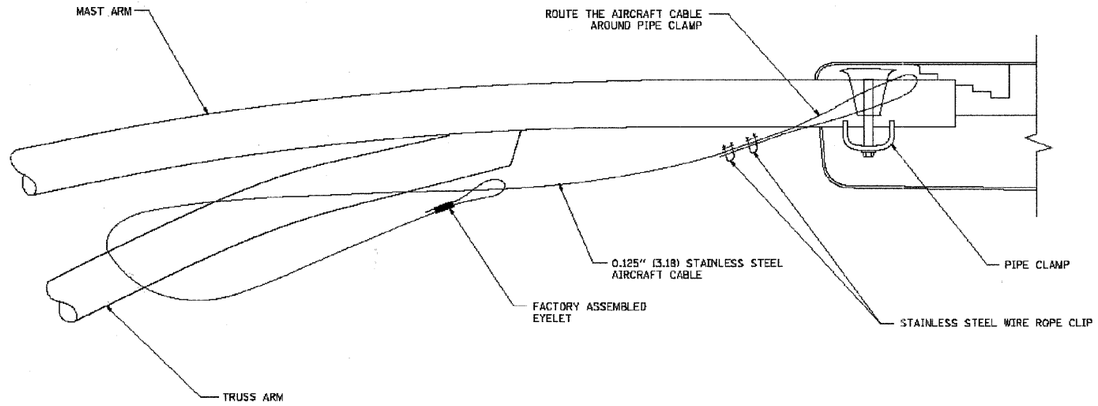
FILE NAME = g:\ch88\0045\road\sheets\0045-RL-209.DE400.SHT	USER NAME = CEComm	DESIGNED FA	REVISED -
		DRAWN FA	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED LGB	REVISED -
	PLOT DATE = 11/4/2011	DATE 11/07/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – ALUMINUM LIGHT POLE

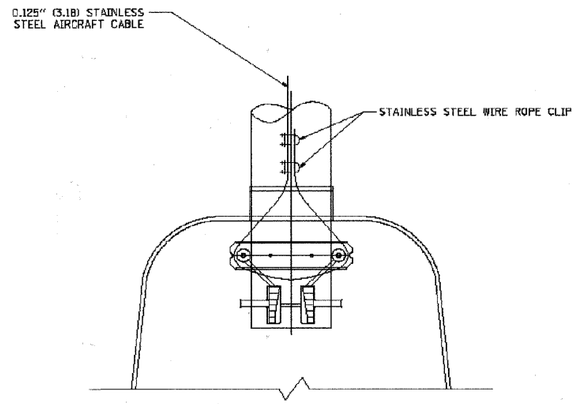
SCALE: N.T.S. | SHEET NO. 9 OF 12 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	00-00243-00-CH	COOK	142	99
	BE-400	CONTRACT NO. 63566		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



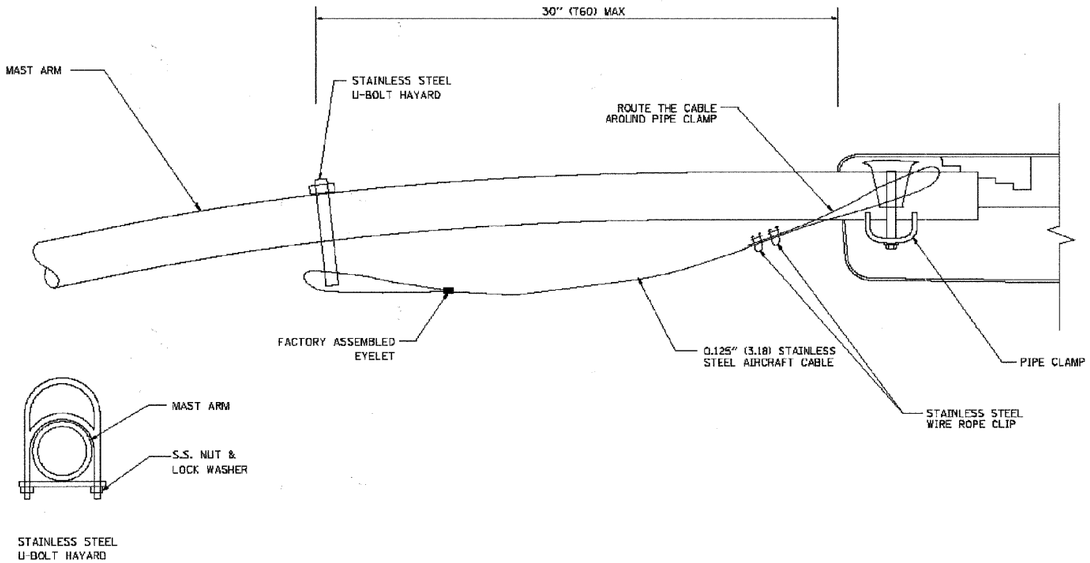
SIDE VIEW (TRUSS ARM)

N.T.S.



BOTTOM VIEW

N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)

N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

TranSystems
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME = W:\diststd \ 22x34\be701.dgn	USER NAME = gaglionobt	DESIGNED	REVISED - 08/08/03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE – LUMINAIRE SAFETY CABLE ASSEMBLY	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN	REVISED -			350	00-00243-00-CH	COOK	142	100
	PLOT SCALE = 20.000 ' / IN.	CHECKED	REVISED -				BE-701	CONTRACT NO. 63566		
	PLOT DATE = 11/4/2011	DATE	REVISED -		SCALE: N.T.S. SHEET NO. 10 OF 12 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		