

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2690	09-00069-00-SP	COOK	28	1
		ILLINOIS	CONTRACT NO. 63222	

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES AND IDOT STANDARDS
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5	ALIGNMENT, TIES AND BENCHMARKS
6	EXISTING CONDITIONS AND REMOVAL PLAN
7	PROPOSED ROADWAY PLAN AND PROFILE - WOLF ROAD
8	PROPOSED ROADWAY PLAN - WHITEHALL AVENUE
9	LIGHTING NOTES AND BILL OF MATERIALS
10	PROPOSED LIGHTING PLAN
11	PROPOSED LIGHTING DETAILS
12-13	RECORD DRAWINGS
14	TRAFFIC SIGNAL MODIFICATION PLAN
15	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY PREEMPTION SEQUENCE
16-19	DISTRICT ONE TRAFFIC SIGNAL DESIGN DETAILS
20	CONSTRUCTION DETAILS
21	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
22	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
23-25	CROSS SECTIONS - WOLF ROAD
26-28	CROSS SECTIONS - WHITEHALL AVENUE

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**

**WOLF ROAD (COUNTRY CLUB DRIVE TO WHITEHALL AVENUE)**

**FAU ROUTE NO. 2690**

**Section No.: 09-00069-00-SP**

**TCM PROJECT**

**Project No.: M-9003 (291)**

**CITY OF NORTHLAKE**

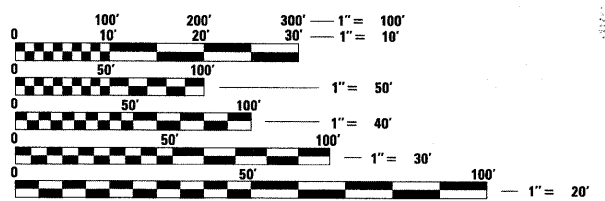
**COOK COUNTY**

**JOB NO.: C-91-504-09**



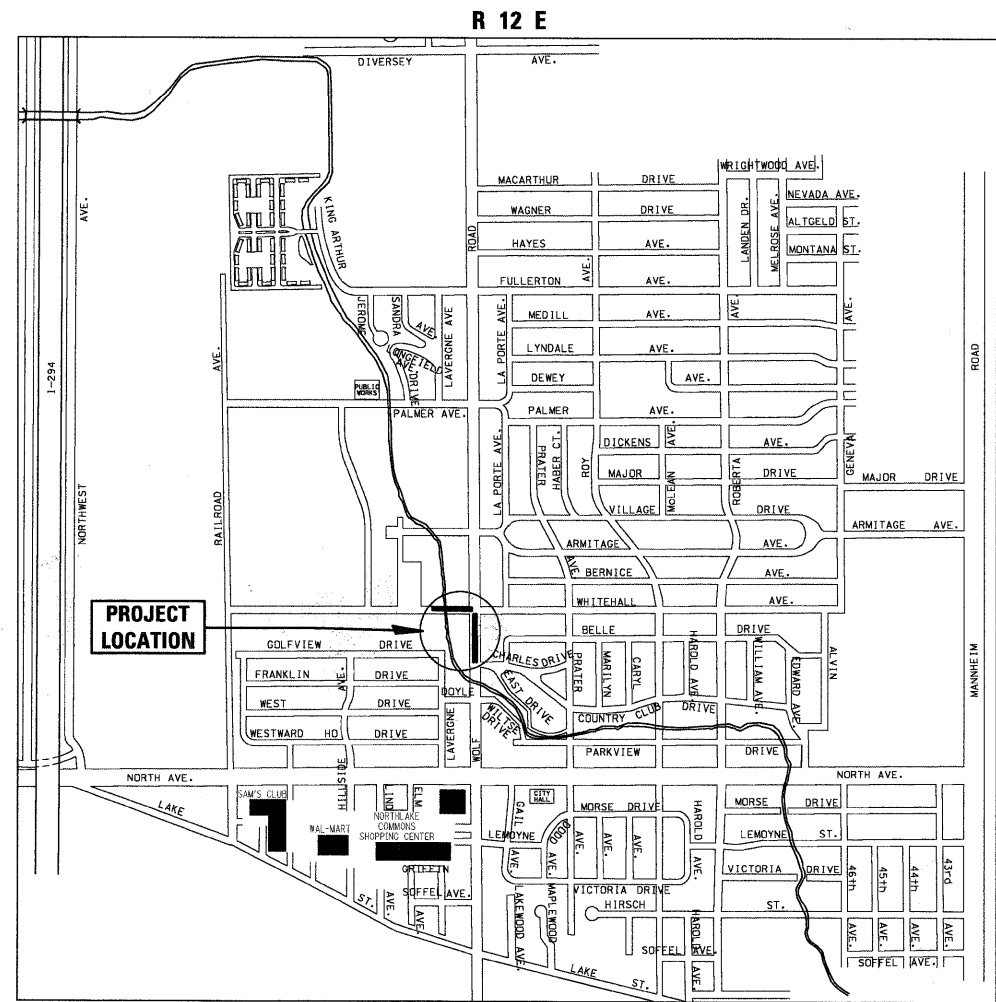
LOCATION OF SECTION INDICATED THIS: - [black rectangle] -

**THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.**



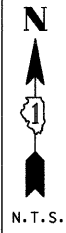
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



**LOCATION MAP - PROVISO TOWNSHIP**

GROSS LENGTH OF PROJECT = 1000 LINEAL FEET 0.19 (MI.)  
NET LENGTH OF PROJECT = 1000 LINEAL FEET 0.19 (MI.)



**TRAFFIC DATA - WOLF ROAD**  
ADT (YEAR) = 12,600 (2006)  
SPEED LIMIT = 30 MPH

**TRAFFIC DATA - WHITEHALL AVENUE**  
ADT (YEAR) = 600 (2006)  
SPEED LIMIT = 25 MPH

**ELECTRICAL**  
July 6, 2009

*Anthony J. Dericco*  
**ANTHONY J. DERICCO**  
ILLINOIS REGISTRATION No. 062-057484 ENGINEER  
EXPIRATION DATE: 11/30/09

**TRAFFIC**  
7/6, 2009

*George M. Ziegler*  
**GEORGE M. ZIEGLER**  
ILLINOIS REGISTRATION No. 062-045853 ENGINEER  
EXPIRATION DATE: 11/30/09

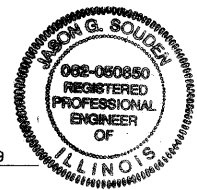
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

APPROVED July 6, 2009  
*[Signature]*  
MAYOR  
CITY OF NORTHLAKE

PASSED July 16, 2009  
*[Signature]*  
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW July 16, 2009

*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION ONE ENGINEER



**CIVIL**  
7/6, 2009

*[Signature]*  
**JASON G. SOUDLER**  
ILLINOIS REGISTRATION No. 062-050850 ENGINEER  
EXPIRATION DATE: 11/30/09

FIELD ENGINEER: MARILYN SOLOMON TEL. 847-705-4407

**CONTRACT NO. 63222**

**GENERAL NOTES**

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2009; THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD), "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY 1996 FIFTH EDITION, THE "DETAILS" IN THE PLANS, LATEST EDITION OF THE MANUAL OF TEST PROCEDURE OF MATERIALS, THE AMERICAN WITH DISABILITIES ACT OF 1990 ACCESSIBILITY GUIDELINES, THE "DRAFT" REHABILITATION ACT OF 1973 (SECTION 504), THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES, AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE CITY IN ANY UNDERGROUND UTILITY CONSTRUCTION WHICH THE CITY MAY WANT TO PLACE DURING THE CONTRACTOR'S OPERATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER SERVICE LINES AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE CITY DOES NOT GUARANTEE THEIR ACCURACY. THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT HIS OWN EXPENSE.

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

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.

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

STAKING

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

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED, AND SHALL BE AS INDICATED ON THE PLANS, ELEVATIONS SHOWN AT POINT OF CURVE, ETC. IS EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

WATER, STORM SEWER AND SANITARY SEWER

WHENEVER DURING CONSTRUCTION OPERATIONS 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 AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE CONTRACT.

ANY EXISTING OR PROPOSED STORM SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AND INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL NOT OPEN OR SHUT ANY WATER VALVES OR FIRE HYDRANTS WITHOUT PRIOR AUTHORIZATION FROM THE CITY WATER DEPARTMENT. UNAUTHORIZED USE SHALL SUBJECT THE OFFENDER TO ARREST AND PROSECUTION.

MISCELLANEOUS

ACCESS: THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR PERIODS OF SHORT DURATION. THE COST TO PROVIDE ACCESS SHALL BE PAID FOR AND INCLUDED IN THE ITEM AGGREGATE FOR TEMPORARY ACCESS.

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

ALL SAWCUTTING SHALL BE INCLUDED TO REMOVAL ITEMS AND SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL. ANY ITEMS OF WORK REMOVED PRIOR TO SAWCUTTING WILL NOT BE MEASURED FOR PAYMENT.

THE THICKNESSES OF HOT-MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASIS ON WHICH THEY ARE TO BE PLACED. PLAN THICKNESSES SHOULD BE CONSIDERED THE MINIMUM THICKNESS PERMITTED.

DETECTABLE WARNINGS FOR THE HANDICAPPED SHALL BE INSTALLED AT ALL INTERSECTING STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS AND SIGNALIZED ALLEYS AS DIRECTED BY THE ENGINEER (SEE IDOT STD. 424001-05 INCLUDED IN THE SPECIFICATIONS). CONTRACTOR SHALL VERIFY THAT ALL SLOPES MEET ADA REQUIREMENTS PRIOR TO INSTALLING SIDEWALK DETECTABLE WARNINGS AND ADJACENT CURB AND GUTTER.

PAVEMENT GRADES: THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.

RELOCATING EXISTING SIGNS: EXISTING SIGNS WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED AND REINSTALLED UPON COMPLETION OF CONFLICTING IMPROVEMENTS IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". STOP SIGNS, SPEED LIMIT SIGNS, AND STREET NAME SIGNS SHALL BE UP AND VISIBLE AT ALL TIMES. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM TRAFFIC CONTROL AND PROTECTION, STANDARD 701501.

PER ARTICLE 107.20, MAILBOXES WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED, TEMPORARILY RELOCATED, AND REPLACED UPON COMPLETION OF THE PROPOSED IMPROVEMENTS AS DIRECTED BY THE ENGINEER.

PROPOSED CONCRETE CURB AND GUTTER SHALL BE TRANSITIONED TO EXISTING CURB AND GUTTER OVER A LENGTH OF 5 FEET. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12.

ALL UNDERGROUND, DRIVEWAY, CONCRETE, AND LANDSCAPE RESTORATION WORK IS TO BE COMPLETED BEFORE THE SURFACE COURSE CAN BE INSTALLED.

THE HMA SURFACE COURSE USED TO REPLACE DRIVEWAYS WILL BE PAID FOR PER TON. THE NUMBER OF DRIVEWAYS TO BE REPLACED WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE EXISTING PAVEMENT SECTION IS ASSUMED TO BE 14 INCHES THICK.

THE PROPOSED PCC CONCRETE BASE SHALL BE DOWELED INTO THE EXISTING CONCRETE BASE AT 16" CENTERS. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM DOWEL BARS.

PROTECTIVE COAT FOR ALL CONCRETE SURFACES SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE PAY ITEM.

**HIGHWAY STANDARDS**

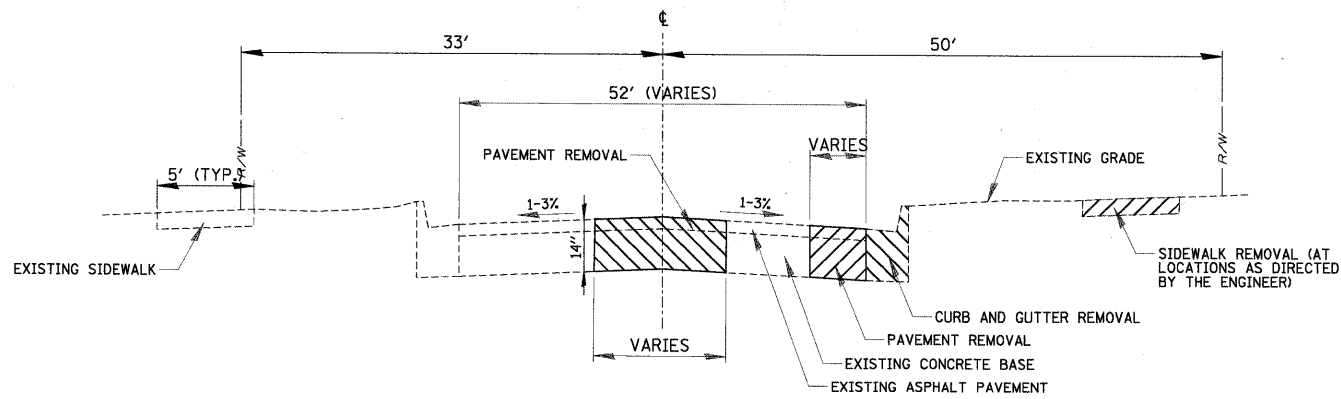
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALKS
602011-01	CATCH BASIN, TYPE C
602401-02	MANHOLE, TYPE A
604001-03	FRAME AND LIDS, TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606206-03	OUTLET TYPE 1 FOR TYPE B GUTTER
606301-04	PC CONCRETE ISLAND AND MEDIANS
701501-05	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
878001-07	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
BLR 17-4	TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION
BLR 18-5	TRAFFIC CONTROL DEVICES - DAY LABOR MAINTENANCE

FILE NAME = N:\NORTHLAKE\940832DC95\Civil\gnot1_940832DC95.sht	USER NAME = EOTODA	DESIGNED - AMP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES AND IDOT STANDARDS</b>				F.A. RTE. 2690	SECTION 09-00069-00-SP	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 2
PLOT SCALE = N.T.S.	PLOT DATE = 7/6/2009	DRAWN - EDT	REVISED -		SCALE:	SHEET NO. OF	SHEETS	STA.	TO STA.	CONTRACT NO. 63222			
CHECKED - MEW	DATE - 03/27/09	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT								

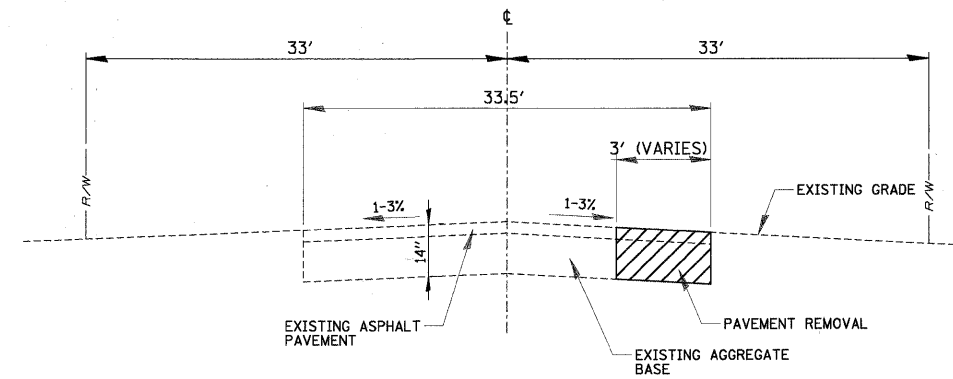
**SUMMARY OF QUANTITIES**

LOCATION OF WORK		STP - TCM					
		WOLF RD. 80% FED 20% LOCAL	WOLF RD. 100% LOCAL	WOLF RD. 80% FED 20% LOCAL	WOLF RD. 80% FED 20% LOCAL		
FUNDING SOURCE		STP	LOCAL	STP	STP		
SUMMARY OF QUANTITIES		CONSTRUCTION TYPE CODE					
ITEM #	ITEM	UNIT	TOTAL QUANTITIES	I000-2A	SFTY-1B	Y031-1F	Y030-1E
20101100	TREE TRUNK PROTECTION	EACH	4	4	0	0	0
20800250	TRENCH BACKFILL, SPECIAL	CU YD	30	30	0	0	0
25200110	SODDING, SALT TOLERANT	SQ YD	350	350	0	0	0
25200200	SUPPLEMENTAL WATERING	UNIT	30	30	0	0	0
29000510	INLET FILTERS	EACH	6	6	0	0	0
31101100	SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	450	448	2	0	0
35102200	AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	75	75	0	0	0
35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	500	490	10	0	0
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	75	75	0	0	0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	55	55	0	0	0
40600300	AGGREGATE (PRIME COAT)	TON	1	1	0	0	0
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	90	88	2	0	0
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	60	59	1	0	0
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	30	30	0	0	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	3800	3605	195	0	0
42400400	PORTLAND CEMENT CONCRETE SIDEWALK, 7 INCH	SQ FT	150	150	0	0	0
42400800	DETECTABLE WARNINGS	SQ FT	110	110	0	0	0
44000100	PAVEMENT REMOVAL	SQ YD	850	850	0	0	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	75	65	10	0	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	825	825	0	0	0
44000600	SIDEWALK REMOVAL	SQ FT	4250	4250	0	0	0
50300225	CONCRETE STRUCTURES	CU YD	1.25	1.25	0	0	0
50800105	REINFORCEMENT BARS	POUND	44	44	0	0	0
50901765	PIPE HANDRAIL, SPECIAL	FOOT	27	27	0	0	0
550A0040	STORM SEWERS, CLASS A, TYPE 1, 10"	FOOT	20	20	0	0	0
550B0040	STORM SEWERS, TYPE 1, R.C.C.P., CLASS IV 12"	FOOT	55	55	0	0	0
55100400	STORM SEWER REMOVAL 10"	FOOT	26	26	0	0	0
55100500	STORM SEWER REMOVAL 12"	FOOT	30	30	0	0	0
55101600	STORM SEWER REMOVAL 36"	FOOT	5	5	0	0	0
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	5	5	0	0	0
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME CLOSED LID	EACH	1	1	0	0	0
60260050	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	1	1	0	0	0
60266600	WATER VALVE BOXES TO BE ADJUSTED	EACH	1	1	0	0	0
60602800	CONCRETE GUTTER, TYPE B	FOOT	234	234	0	0	0
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	650	650	0	0	0
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	105	105	0	0	0
67100100	MOBILIZATION	L. SUM	1	0.5	0	0.25	0.25
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L. SUM	1	0.5	0	0.25	0.25
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L. SUM	1	0.5	0	0.25	0.25
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L. SUM	1	0.5	0	0.25	0.25
72000100	SIGN PANEL - TYPE 1	SQ FT	31	31	0	0	0
72900100	METAL POST - TYPE A	FOOT	84	84	0	0	0
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36.4	0	0	36.4	0
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	400	0	0	400	0
*78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	100	0	0	100	0
*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	436	0	0	436	0
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	140	0	0	140	0
*78300100	PAVEMENT MARKING REMOVAL	SQ FT	350	0	0	350	0
*81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	57	0	0	57	0
*85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	0	0	1	0
*87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	692	0	0	692	0
*87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1282	0	0	1282	0
*87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT	EACH	1	0	0	1	0
*87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4	0	0	4	0
*87900200	DRILL EXISTING HANDHOLE	EACH	1	0	0	1	0
*88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	0	0	4	0
*88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	0	0	2	0
*88800100	PEDESTRIAN PUSH-BUTTON	EACH	6	0	0	6	0
*89502200	MODIFY EXISTING CONTROLLER	EACH	1	0	0	1	0
88600100	DETECTOR LOOP, TYPE I	FOOT	83	0	0	83	0
*X0321478	MAINTENANCE OF EXISTING LIGHTING SYSTEM COMPLETE	L. SUM	1	0	0	0	1
X0321556	SANITARY MANHOLE TO BE ADJUSTED	EACH	2	2	0	0	0
*X0322951	CABLE SPLICE, SPECIAL	EACH	4	0	0	0	4
X6063401	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	75	75	0	0	0
X8950200	REBUILD EXISTING HANDHOLE	EACH	3	3	0	0	0
XX000671	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12	FOOT	445	442	3	0	0
XX005238	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	CU YD	75	75	0	0	0
Z0013798	CONSTRUCTION LAYOUT	L. SUM	1	0.5	0	0.25	0.25
Z0017190	DOWEL BARS 1"	EACH	800	800	0	0	0
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	2	2	0	0	0
Z0018700	DRAINAGE STRUCTURES TO BE REMOVED	EACH	3	3	0	0	0
XX008121	LUMINAIRE, SODIUM VAPOR, ORNAMENTAL, 35 WATT WITH ARM ASSEMBLY	EACH	4	0	0	0	4
42400430	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH, SPECIAL	SQ FT	2950	2950	0	0	0

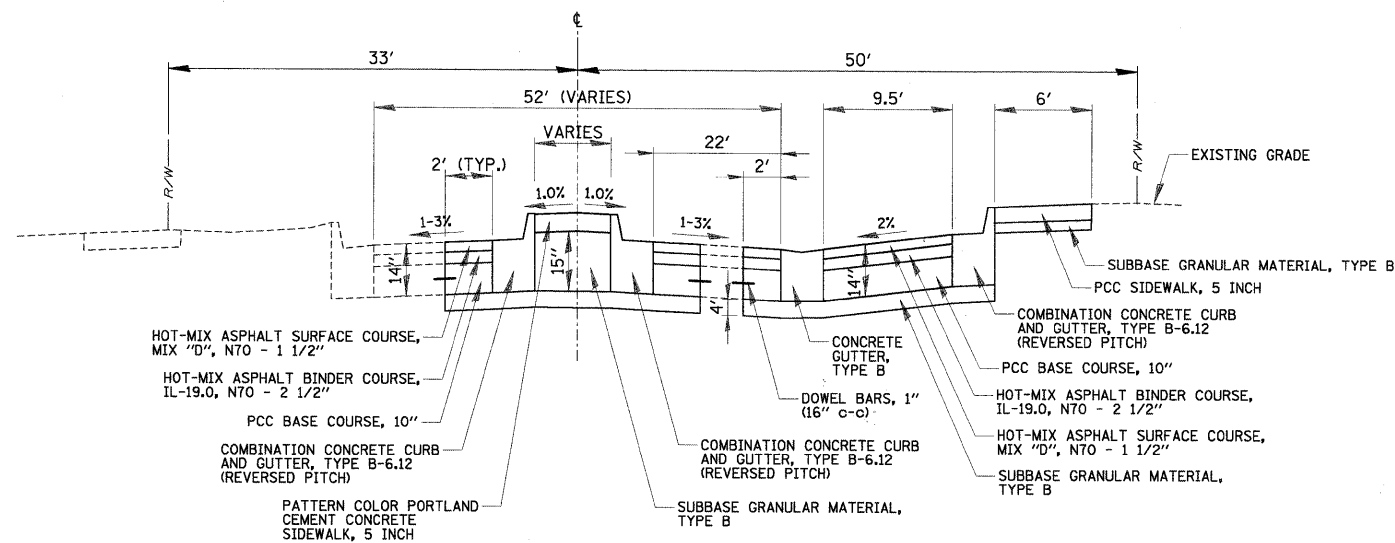
\* INDICATES SPECIALTY ITEM



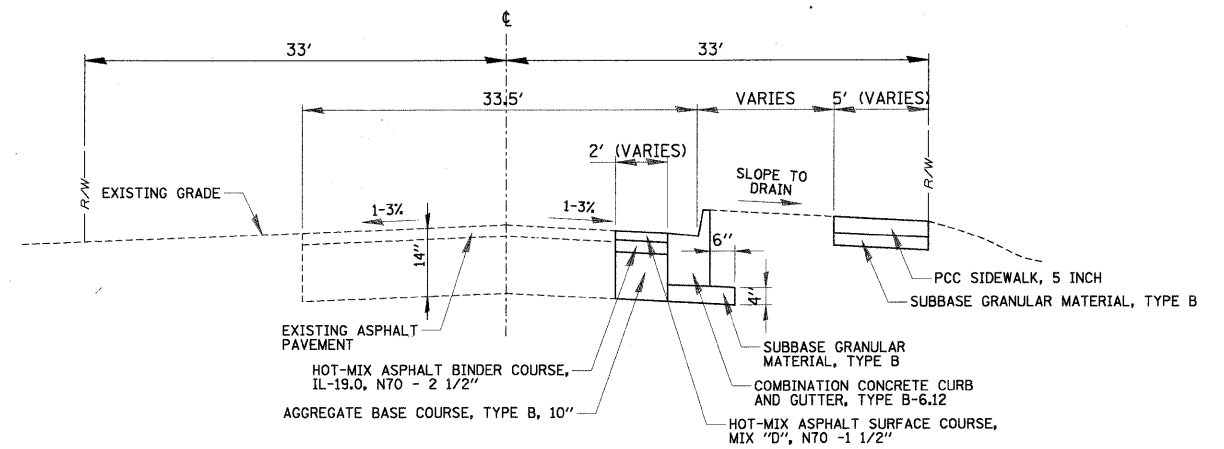
**EXISTING TYPICAL SECTION**  
NOT TO SCALE



**EXISTING TYPICAL SECTION**  
NOT TO SCALE



**PROPOSED TYPICAL SECTION**  
NOT TO SCALE



**PROPOSED TYPICAL SECTION**  
NOT TO SCALE

**WOLF ROAD**

**WHITEHALL AVENUE**

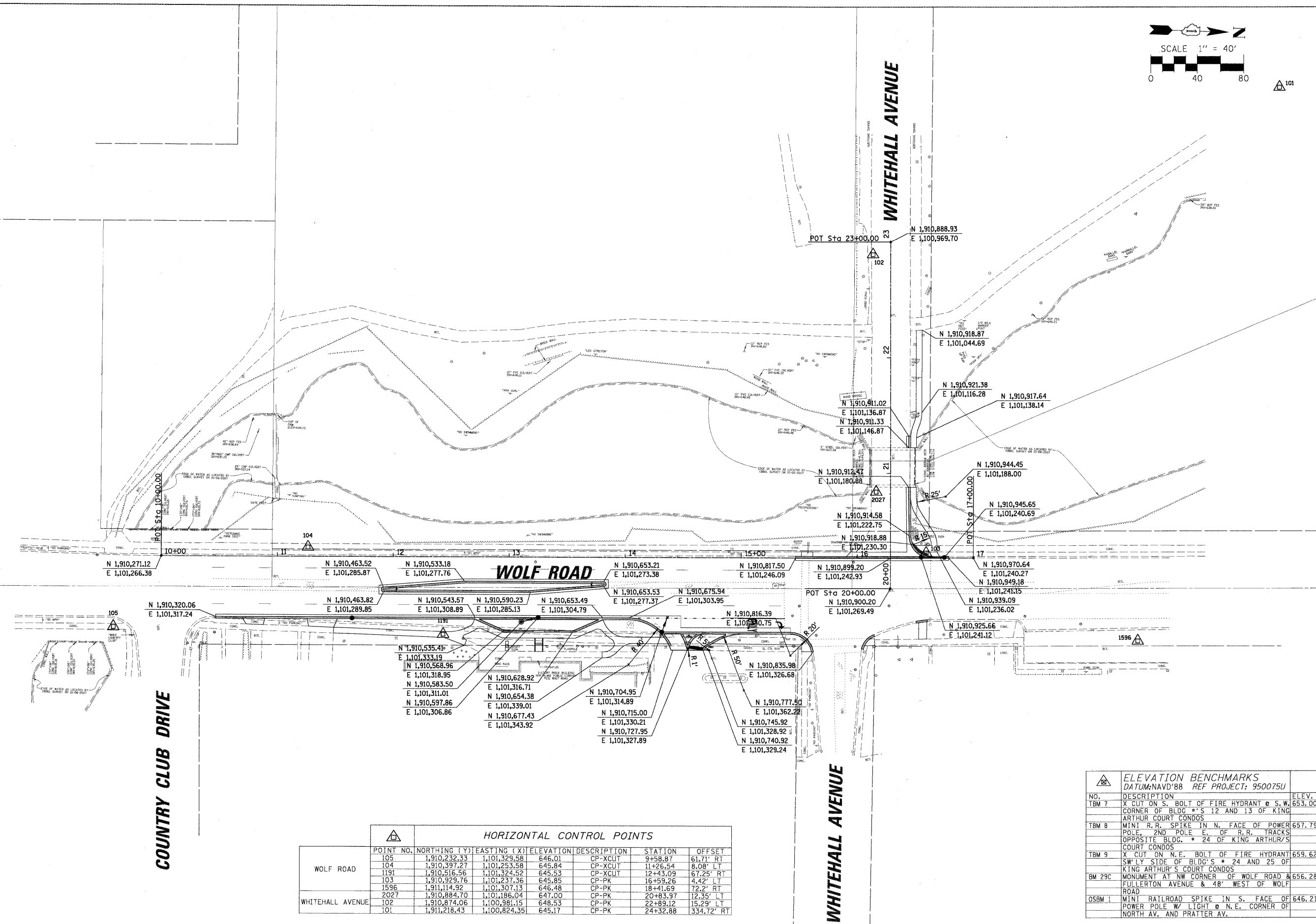
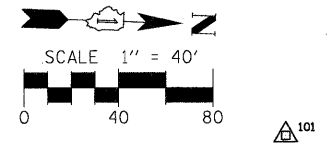
**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

ITEM	AC-TYPE	VOIDS
<b>ROADWAYS</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 MM)	PG 64-22	4% @ 70 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	PG 64-22*	4% @ 70 GYR

**NOTE:**

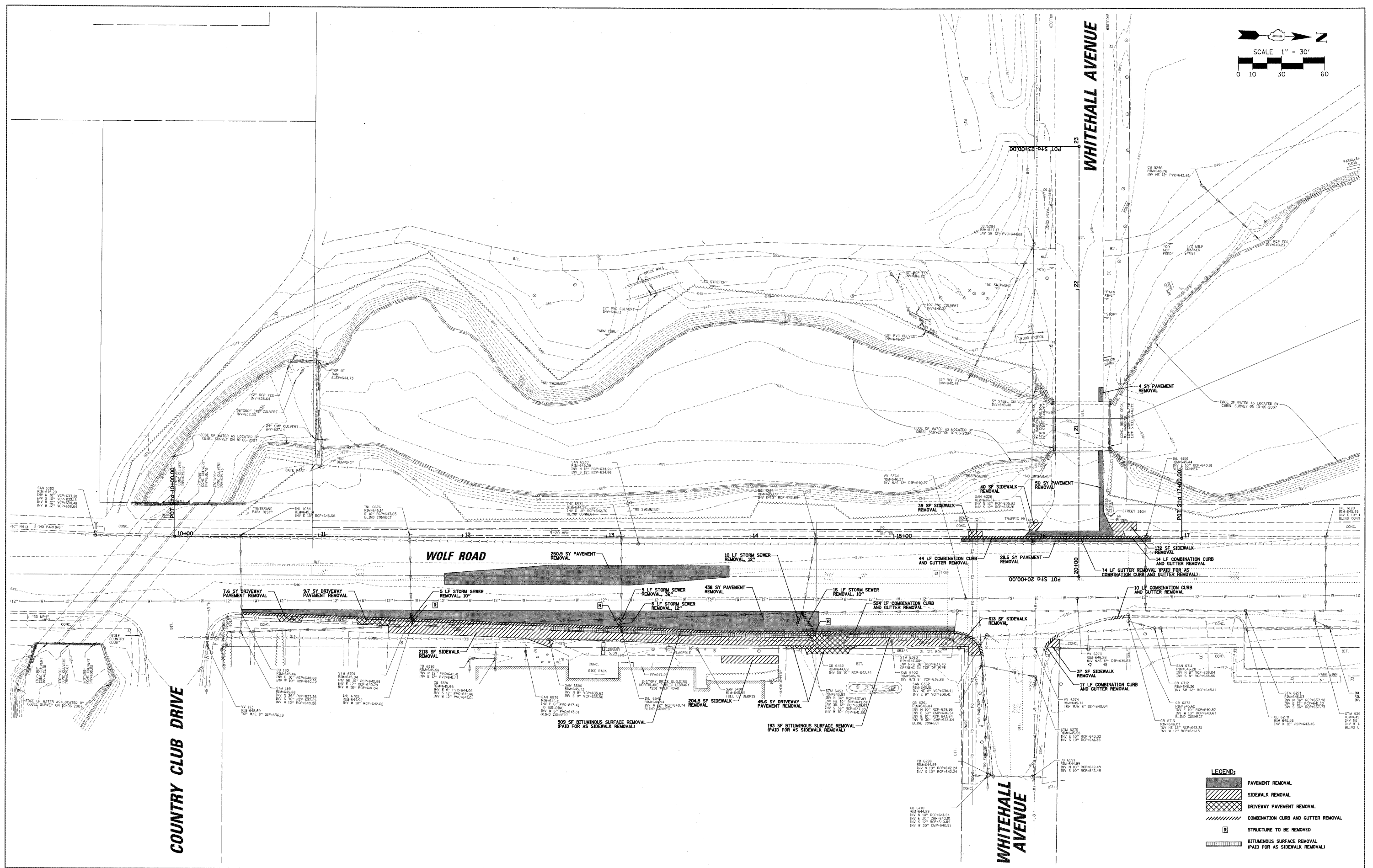
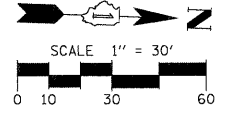
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

2. WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.



HORIZONTAL CONTROL POINTS						
POINT NO.	NORTHING (Y)	EASTING (X)	ELEVATION	DESCRIPTION	STATION	OFFSET
105	1,910,232.33	1,101,329.58	646.01	CP-XCUT	9+58.87	61.71' RT
104	1,910,397.27	1,101,253.58	645.84	CP-XCUT	11+26.54	8.08' LT
1191	1,910,516.56	1,101,324.52	645.53	CP-XCUT	12+43.09	67.25' RT
103	1,910,929.76	1,101,237.36	645.85	CP-PK	16+59.26	4.42' LT
1596	1,911,114.92	1,101,307.13	646.48	CP-PK	18+41.69	72.2' RT
2027	1,910,884.70	1,101,186.04	647.00	CP-PK	20+83.97	12.35' LT
102	1,910,874.06	1,100,981.15	648.53	CP-PK	22+89.12	15.29' LT
101	1,911,218.43	1,100,824.35	645.17	CP-PK	24+32.88	334.72' RT

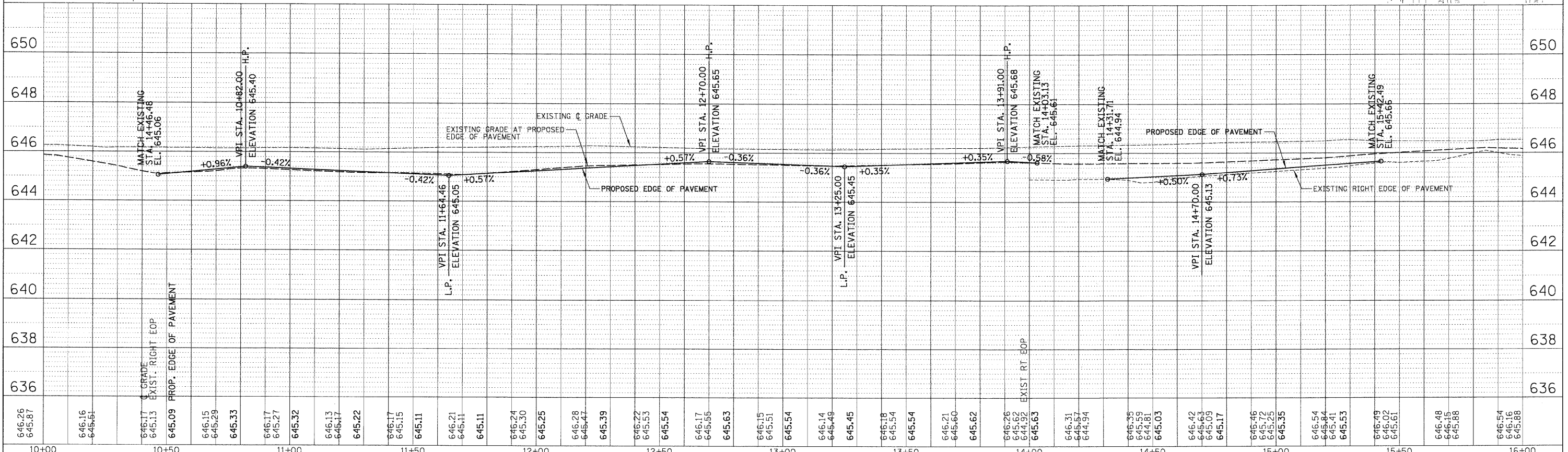
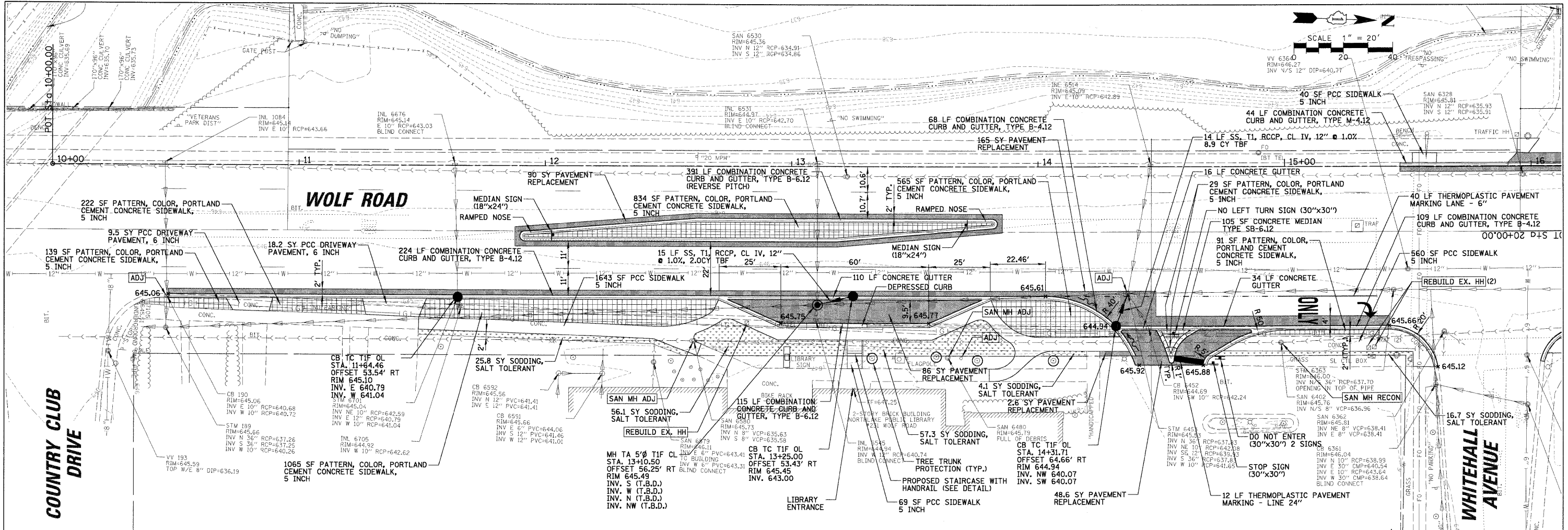
ELEVATION BENCHMARKS		
DATUM: NAVD'88 REF PROJECT: 950075U		
NO.	DESCRIPTION	ELEV.
TBM 7	X CUT ON S. BOLT OF FIRE HYDRANT @ S.W. CORNER OF BLDG # 12 AND 13 OF KING ARTHUR COURT CONDOS	653.00
TBM 8	MINI R.R. SPIKE IN N. FACE OF POWER POLE, 2ND POLE E. OF R.R. TRACKS OPPOSITE BLDG. # 24 OF KING ARTHUR'S COURT CONDOS	657.79
TBM 9	X CUT ON N.E. BOLT OF FIRE HYDRANT SW'LY SIDE OF BLDG'S # 24 AND 25 OF KING ARTHUR'S COURT CONDOS	659.62
BM 29C	MONUMENT AT NW CORNER OF WOLF ROAD & FULLERTON AVENUE & 48' WEST OF WOLF ROAD	656.28
OSBM 1	MINI RAILROAD SPIKE IN S. FACE OF POWER POLE W/ LIGHT @ N.E. CORNER OF NORTH AV. AND PRATTER AV.	646.21



**LEGEND:**

	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	STRUCTURE TO BE REMOVED
	BITUMINOUS SURFACE REMOVAL (PAID FOR AS SIDEWALK REMOVAL)

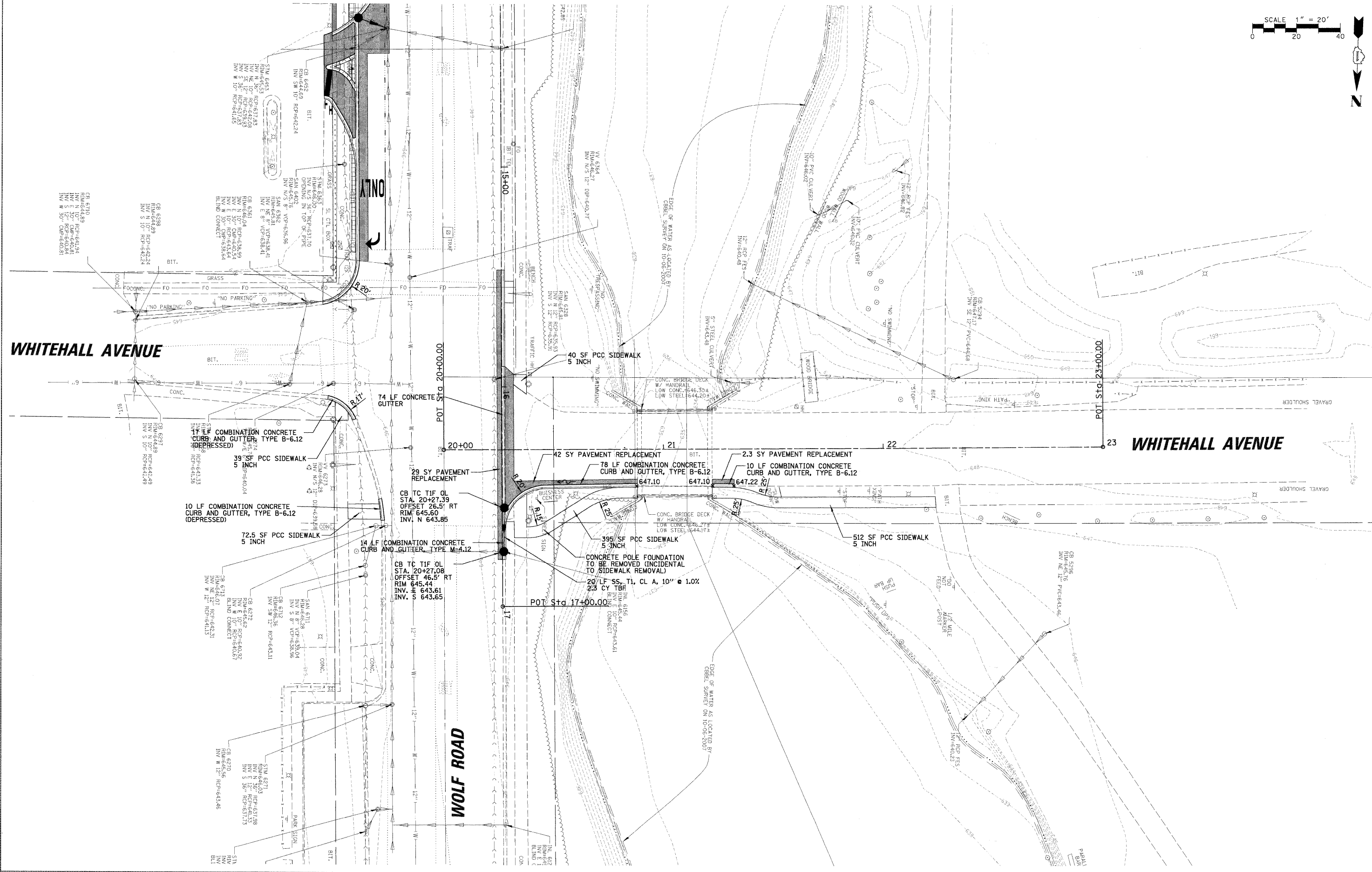
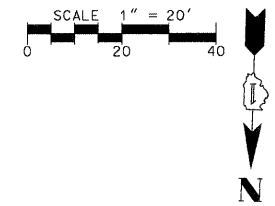
FILE NAME = N:\NORTHLAKE\9408320C95\Civil\remL\9408320C95.shx	USER NAME = EDT00A	DESIGNED - AMP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING CONDITIONS AND REMOVAL PLAN</b>			F.A. RTE. = 2690	SECTION = 09-00069-00-SP	COUNTY = COOK	TOTAL SHEETS = 28	SHEET NO. = 6
PLOT SCALE = 38'	DATE = 03/27/09	DRAWN - EDT	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 63222				
CHECKED - MEW			REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 7/6/2009			REVISED -									



DATE	BY

DATE	BY

FILE NAME =	USER NAME = E0TODA	DESIGNED - AMP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED ROADWAY PLAN AND PROFILE</b> <b>WOLF ROAD</b>	F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.	
N:\NORTH LAKE\940032DC95\Civil\proj_940032DC95.sht	PLOT SCALE = 20'	DRAWN - EDT	REVISED -			2690	09-00069-00-SP	COOK	28	7
PLOT DATE = 7/6/2009	DATE - 03/27/09	CHECKED - MEW	REVISED -			CONTRACT NO. 63222				
SCALE:		SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT						



FILE NAME =	USER NAME = EDT00A	DESIGNED = AMP	REVISED =	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED ROADWAY PLAN WHITEHALL AVENUE</b>			F.A. RTE. 2690	SECTION 09-00069-00-SP	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 8
N:\NORTHLAKE\9400320C95\Civil\pro2_9400320C95.dwg	220C95.dwg	DRAWN = EDT	REVISED =		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 63222		
PLOT SCALE = 28'		CHECKED = MEW	REVISED =							ILLINOIS FED. AID PROJECT		
PLOT DATE = 7/6/2009		DATE = 03/27/09	REVISED =									



## LIGHTING GENERAL NOTES

1. THE OWNER, CITY OF NORTHLAKE SHALL BE NOTIFIED IN WRITING AT LEAST TWO (2) FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE CITY BEFORE THE START OF WORK.
3. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM, FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123.
4. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD UTILITIES CALL COM ED FOR LOCATION APPROVAL.
5. THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION AT NO ADDITIONAL COST. THE COST ASSOCIATED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS INCLUDING ALL ABOVE AND BELOW GRADE APPURTENANCES. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
8. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
  - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", AS PREPARED BY IDOT.
  - B. "THE NATIONAL ELECTRICAL CODE."
  - C. MUNICIPAL CODE & ORDINANCE.
  - D. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
9. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DRAWINGS AND SPECIFICATIONS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DRAWINGS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DRAWINGS AND SPECIFICATIONS, BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL SUBMIT SPECIFICATIONS, DRAWINGS AND CATALOG CUTS FOR ALL MATERIALS TO THE OWNERS REPRESENTATIVE FOR REVIEW BEFORE ORDERING ANY MATERIALS FOR PROJECT.
11. ALL TREE TRIMMING REQUIRED AS DIRECTED BY THE OWNER'S REPRESENTATIVE SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
12. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE MECHANICAL TYPE UL LISTED FOR DIRECT BURIAL USE, AS SPECIFIED, AND SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
13. THE INSTALLATION OF WARNING TAPE IN TRENCH SECTIONS, AS SHOWN ON THE PLANS, SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO BACKFILLING AS APPLICABLE.

14. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE CITY OF NORTHLAKE.
15. THE CONTRACTOR SHALL TAG ALL WIRES WITH WIRE MARKERS INDICATING THE CIRCUIT ID IN EVERY POLE BASE, HAND HOLE AND SPLICE/CONNECTION POINT.
16. LUMINAIRES SHALL HAVE A TIGHT FIT ON TENON TO THE CITY'S SATISFACTION. THIS WORK SHALL INCLUDE FIELD ADJUSTING OF THE LUMINAIRE WHICH WILL BE INCIDENTAL TO THE COST OF THE LUMINAIRE.
17. TO MAINTAIN THE STRUCTURAL INTEGRITY OF LIGHT POLES, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES.
18. POLE HANDHOLES SHALL FACE AWAY FROM TRAFFIC.
19. UPON COMPLETION OF THE IMPROVEMENTS TO THE EXISTING LIGHTING SYSTEMS THE CONTRACTOR SHALL REQUEST IN WRITING A REQUEST FOR PREFINAL INSPECTION A MINIMUM OF THREE DAYS NOTICE TO THE CITY OF NORTHLAKE AND THE OWNER'S REPRESENTATIVE.
20. THE ELECTRICAL CONTRACTOR SHALL FURNISH TWO SETS OF RECORD DRAWINGS TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE LOCATION OF THE LIGHT POLES AND THE LOCATION OF ALL UNDERGROUND WIRING & CONTROLLER CABINETS.
21. THE CONTRACTOR SHALL PROVIDE A GUARANTEE FOR ALL MATERIAL AND WORKMANSHIP FOR ONE YEAR AFTER THE DATE OF ACCEPTANCE.
22. THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE ELECTRICAL TESTING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

**CAUTION**  
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND/OR ELEVATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THESE PLANS. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ENGINEER OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS.

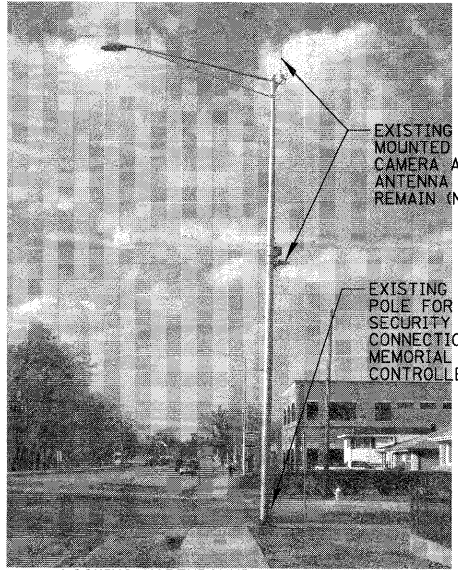
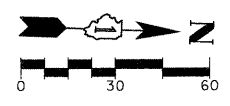
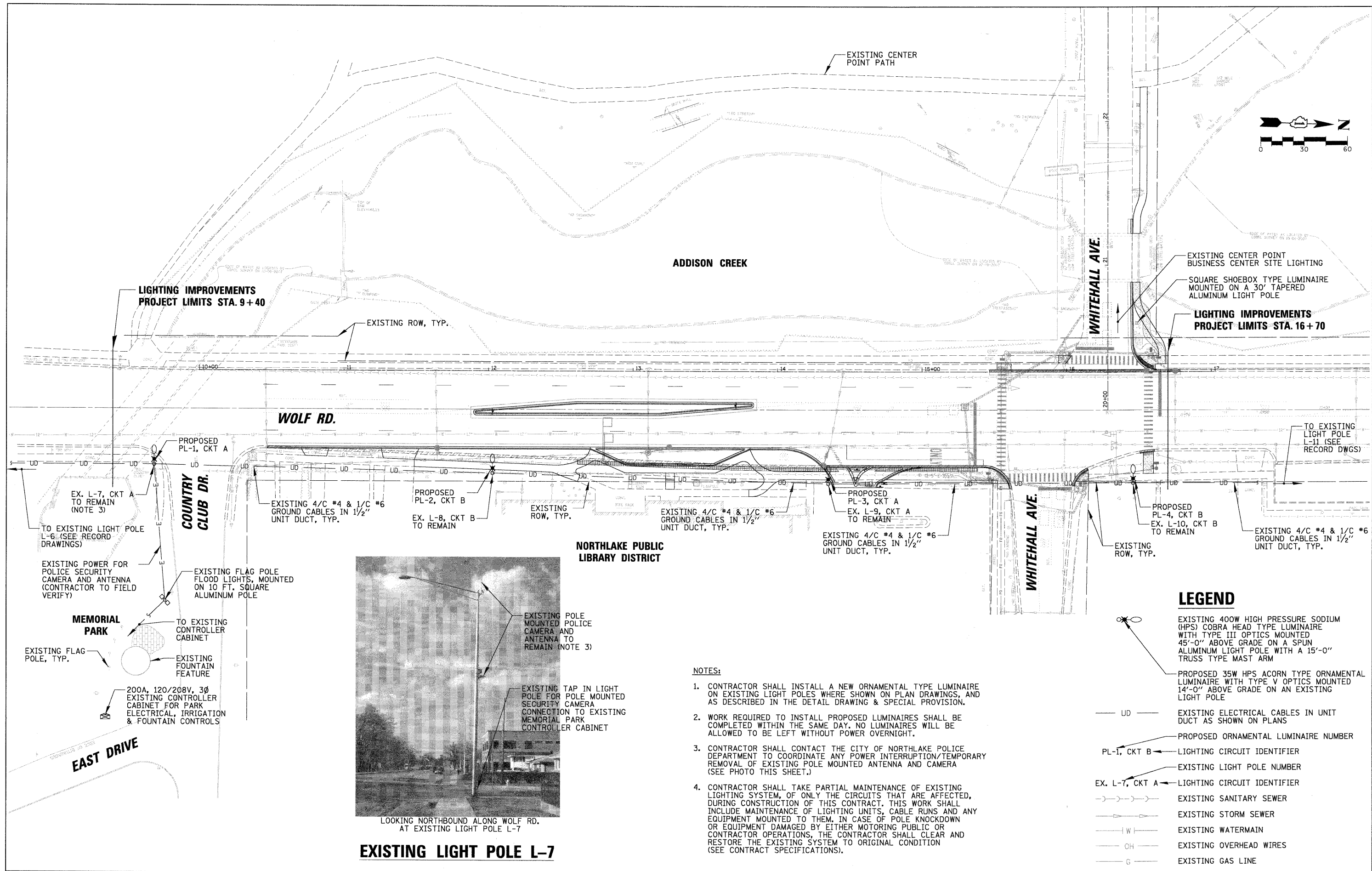
## LIGHTING BILL OF MATERIALS

Code No.	Description	Unit	Quantity
•X0321478	MAINTENANCE OF LIGHTING SYSTEM	LSUM	1
•X0322951	CABLE SPLICE, SPECIAL	EACH	4
•	LUMINAIRE, SODIUM VAPOR, ORNAMENTAL, 35 WATT W/ ARM ASSEMBLY	EACH	4

\*SEE LIGHTING PLAN, DETAILS AND SPECIAL PROVISIONS.

### LEGEND

- EXISTING 400W HIGH PRESSURE SODIUM (HPS) COBRA HEAD TYPE LUMINAIRE WITH TYPE III OPTICS MOUNTED 45'-0" ABOVE GRADE ON A SPUN ALUMINUM LIGHT POLE WITH A 15'-0" TRUSS TYPE MAST ARM
- PROPOSED 35W HPS ACORN TYPE ORNAMENTAL LUMINAIRE WITH TYPE V OPTICS MOUNTED 14'-0" ABOVE GRADE ON AN EXISTING LIGHT POLE
- UD ——— EXISTING ELECTRICAL CABLES IN UNIT DUCT AS SHOWN ON PLANS
- PL-1, CKT B ——— PROPOSED ORNAMENTAL LUMINAIRE NUMBER
- EX. L-7, CKT A ——— LIGHTING CIRCUIT IDENTIFIER
- EXISTING LIGHT POLE NUMBER
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- OH ——— EXISTING OVERHEAD WIRES
- G ——— EXISTING GAS LINE



LOOKING NORTHBOUND ALONG WOLF RD. AT EXISTING LIGHT POLE L-7

**NORTHLAKE PUBLIC LIBRARY DISTRICT**

**NOTES:**

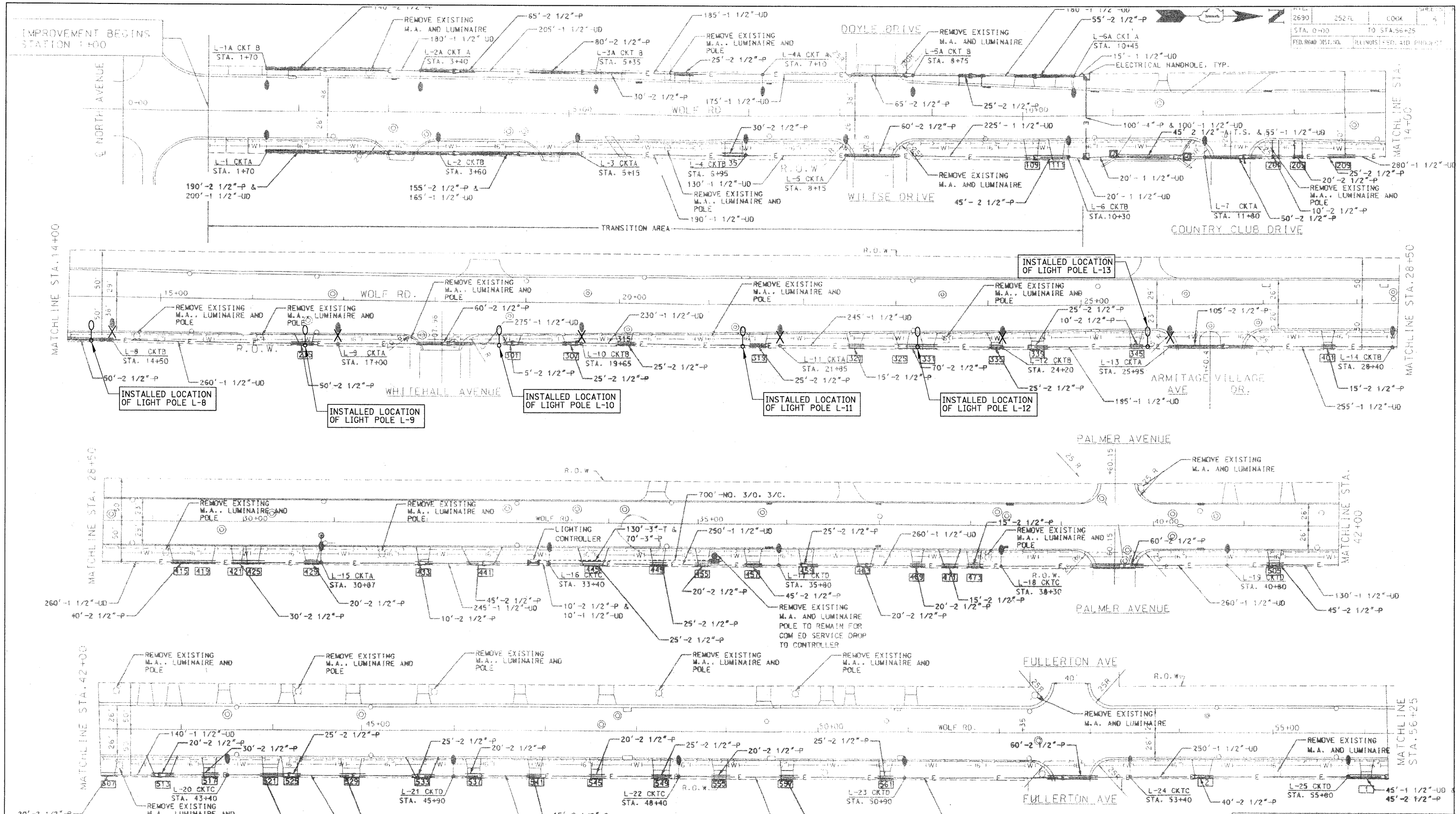
- CONTRACTOR SHALL INSTALL A NEW ORNAMENTAL TYPE LUMINAIRE ON EXISTING LIGHT POLES WHERE SHOWN ON PLAN DRAWINGS, AND AS DESCRIBED IN THE DETAIL DRAWING & SPECIAL PROVISION.
- WORK REQUIRED TO INSTALL PROPOSED LUMINAIRES SHALL BE COMPLETED WITHIN THE SAME DAY. NO LUMINAIRES WILL BE ALLOWED TO BE LEFT WITHOUT POWER OVERNIGHT.
- CONTRACTOR SHALL CONTACT THE CITY OF NORTHLAKE POLICE DEPARTMENT TO COORDINATE ANY POWER INTERRUPTION/TEMPORARY REMOVAL OF EXISTING POLE MOUNTED ANTENNA AND CAMERA (SEE PHOTO THIS SHEET.)
- CONTRACTOR SHALL TAKE PARTIAL MAINTENANCE OF EXISTING LIGHTING SYSTEM, OF ONLY THE CIRCUITS THAT ARE AFFECTED, DURING CONSTRUCTION OF THIS CONTRACT. THIS WORK SHALL INCLUDE MAINTENANCE OF LIGHTING UNITS, CABLE RUNS AND ANY EQUIPMENT MOUNTED TO THEM. IN CASE OF POLE KNOCKDOWN OR EQUIPMENT DAMAGED BY EITHER MOTORING PUBLIC OR CONTRACTOR OPERATIONS, THE CONTRACTOR SHALL CLEAR AND RESTORE THE EXISTING SYSTEM TO ORIGINAL CONDITION (SEE CONTRACT SPECIFICATIONS).

**LEGEND**

- EXISTING 400W HIGH PRESSURE SODIUM (HPS) COBRA HEAD TYPE LUMINAIRE WITH TYPE III OPTICS MOUNTED 45'-0" ABOVE GRADE ON A SPUN ALUMINUM LIGHT POLE WITH A 15'-0" TRUSS TYPE MAST ARM
- PROPOSED 35W HPS ACORN TYPE ORNAMENTAL LUMINAIRE WITH TYPE V OPTICS MOUNTED 14'-0" ABOVE GRADE ON AN EXISTING LIGHT POLE
- EXISTING ELECTRICAL CABLES IN UNIT DUCT AS SHOWN ON PLANS
- PROPOSED ORNAMENTAL LUMINAIRE NUMBER
- PL-1, CKT B LIGHTING CIRCUIT IDENTIFIER
- EXISTING LIGHT POLE NUMBER
- EX. L-7, CKT A LIGHTING CIRCUIT IDENTIFIER
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- EXISTING OVERHEAD WIRES
- EXISTING GAS LINE

FILE NAME =	USER NAME = EDT00A	DESIGNED - KB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED LIGHTING PLAN WOLF ROAD</b>	F.A. RTE. 2690	SECTION 09-00069-00-SP	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 10		
N:\NORTHLAKE\940032DC95\Meach\LGT_940032DC95_02.sht	PLOT SCALE = 3/8"	DRAWN - KB	REVISED -			SCALE: 1"=30'-0"	SHEET NO. 10 OF 28 SHEETS	STA. 9+40	TO STA. 16+70	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 7/6/2009	CHECKED - AJD	REVISED -			CONTRACT NO. 63222						
		DATE - 03/27/09	REVISED -									





**NOTE: PLAN DRAWING FROM WOLF ROAD STREET LIGHTING RECORD DRAWINGS SECTION: 96-00044-00-LT FEDERAL PROJECT: STPM-7003 (353) STATE SECTION: 2527L**

Record Drawing  
 Contracting & Material Company  
 By *[Signature]* Date 6-10-98

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 WOLF ROAD STREET LIGHTING PLAN SHEET-1

VERT. 1"=50'-0"  
 HORIZ. 1"=50'-0"

DRAWN BY GAH  
 CHECKED BY JPC

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2690	09-00069-00-SP	COOK	28	12
CONTRACT NO. 63222				

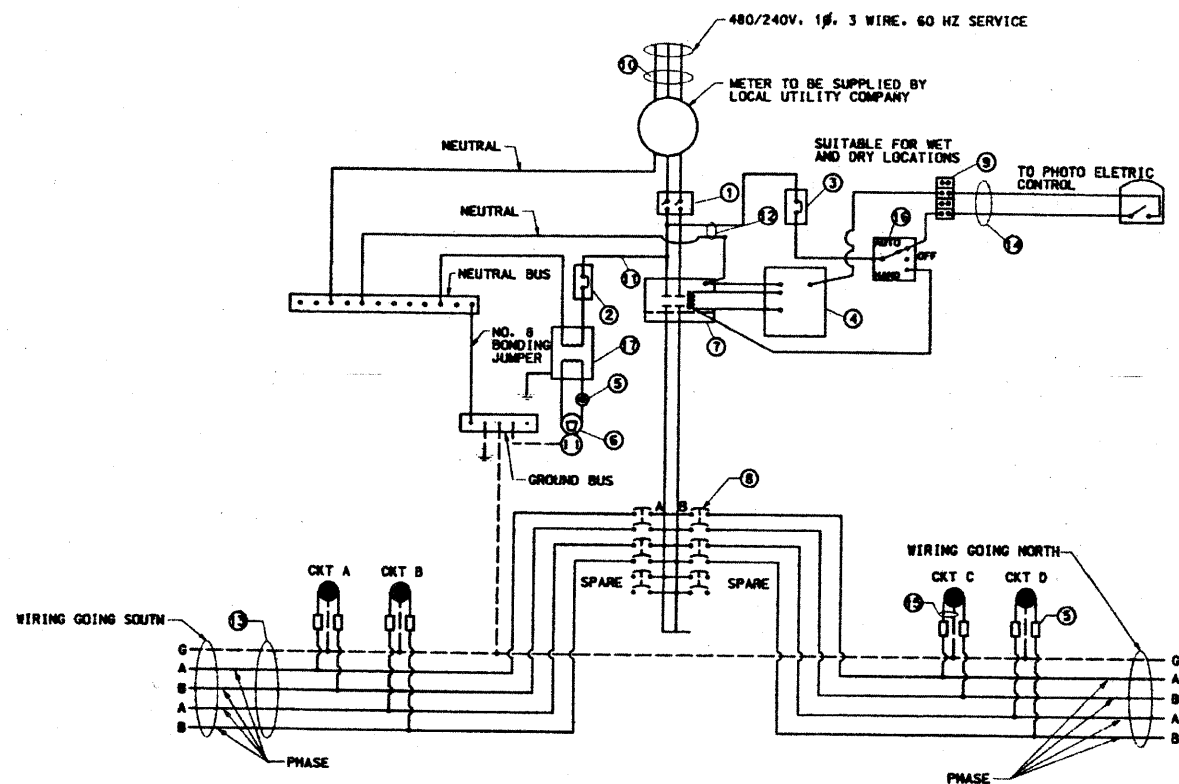
ILLINOIS FED. AID PROJECT

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PLOT SCALE = 50'		CHECKED - AJD	REVISED -
PLOT DATE = 7/6/2009		DATE - 03/27/09	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**RECORD DRAWING (1 OF 2)**  
**WOLF ROAD**

SCALE: N.T.S. SHEET NO. 12 OF 28 SHEETS STA. --- TO STA. ---



CONTROL CENTER WIRING DETAIL

ITEM	SPECIFICATION OR EQUAL
1	MAIN CIRCUIT BREAKER 200 AMPERE, 2 POLE, 480 VOLT RATING
2	LAMPHOLDER CIRCUIT BREAKER 15 AMPERE, 1 POLE, 240 VOLT RATING
3	PHOTOELECTRIC CONTROL CIRCUIT BREAKER 15 AMPERE, 1 POLE, 240 VOLT RATING
4	AUXILIARY RELAY 240 VOLT SPST 60 HZ COIL
5	FUSE 5 AMPERE
6	LAMPHOLDER WITH OUTLET 120 VOLT PORCELAIN LAMPHOLDER WITH PULL CHAIN & LAMP, & GROUNDED OUTLET
7	REMOTE CONTROL SWITCH 200 AMPERE, 2 POLE, 480 VOLT RATING
8	BRANCH LINE CIRCUIT BREAKERS 60 AMPERE, 2 POLE, 480 VOLT RATING
9	FOUR POINT TERMINAL BLOCK 600 VOLT
10	SERVICE CABLES 3-600V (XLP-TYPE USE) NO. 3/0
11	LAMPHOLDER WIRE 2-600V XLP NO. 10
12	CONTROL WIRE 2-600V XLP NO. 10
13	BRANCH LINE CABLES 4-600V XLP NO. 4 AND 1-1/2 600V XLP NO. 6 GROUND IN A 1 1/2" DIAMETER UNIT DUCT
14	PHOTOELECTRIC CONTROL WIRE 3-600V XLP NO. 10
15	LIGHTING POLE WIRE 2-600V XLP NO. 10 CABLES WITH POLE GROUND AND FUSING
16	HAND-AUTO-OFF CONTROL SWITCH 10 AMPERE, 3 POLE, 240 VOLT
17	DRY TYPE TRANSFORMER 0.5 KVA, 240/120 VOLT

PHOTO CELL FISHER PIERCE SERIES 7700 240 VOLT SPST PHOTO CELL TO BE MOUNTED ON TOP OF THE NEAREST POLE SOUTH OF THE CONTROL CENTER.

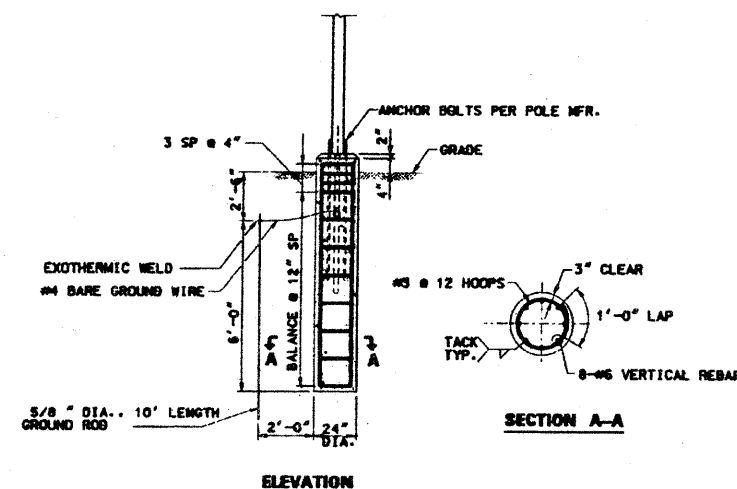
CIRCUIT NUMBER	TOTAL LIGHT STANDARDS	TOTAL AMPERAGE LOAD
A	11	12.1A
B	10	11A
C	7	7.7A
D	6	6.6A

LIGHTING CIRCUIT AMPERAGE LOADS

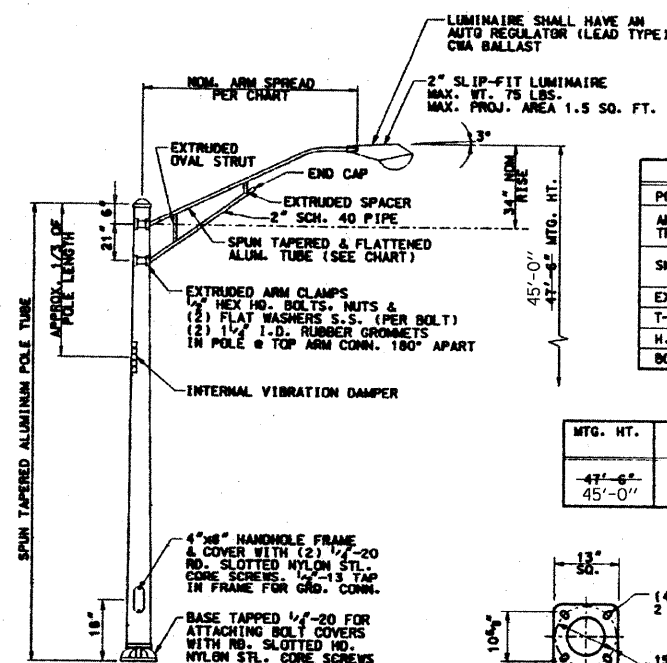
NOTE:  
ALL CONDUCTORS IN THE UNIT DUCT RUNS SHALL HAVE INDIVIDUALLY COLOR CODED INSULATION THROUGHOUT THE ENTIRE LENGTH OF THE CONDUCTOR. THE COLOR IDENTIFICATION FOR THE SYSTEM GROUND SHALL BE GREEN. THE FOUR (4) PHASE CONDUCTORS SHALL BE IN ACCORDANCE WITH STANDARD I. D. O. T. PRACTICES FOR WIRING MULTICONDUCTOR CIRCUITS IN SINGLE UNIT DUCT RUNS.

24 IN. DIA. FOUNDATION DEPTH TABLE  
DESIGN BASE ON 80 M.P.H. AASHTO WIND LOADING

TYPE OF SOIL	FOUNDATION DEPTH D	REINFORCEMENT IN FOUNDATION	
		VERTICAL BARS	HORIZONTAL BARS
ROCK OR SOLIDIFIED SLAG	5'-0"	NONE	NONE
DENSE SAND	7'-9"	8-#6 x 7'-4"	#5 x 73'
MEDIUM SAND	8'-3"	8-#6 x 7'-10"	#5 x 78'
LOOSE SAND	9'-0"	8-#6 x 8'-7"	#5 x 85'
STIFF CLAY	7'-0"	8-#6 x 6'-7"	#5 x 66'
MEDIUM CLAY	9'-6"	8-#6 x 9'-1"	#5 x 90'
SOFT CLAY	13'-0"	8-#6 x 12'-7"	#5 x 122'



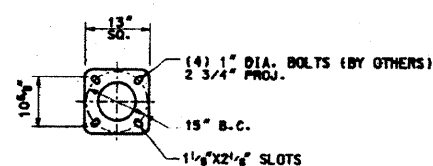
CONCRETE FOUNDATION DETAIL



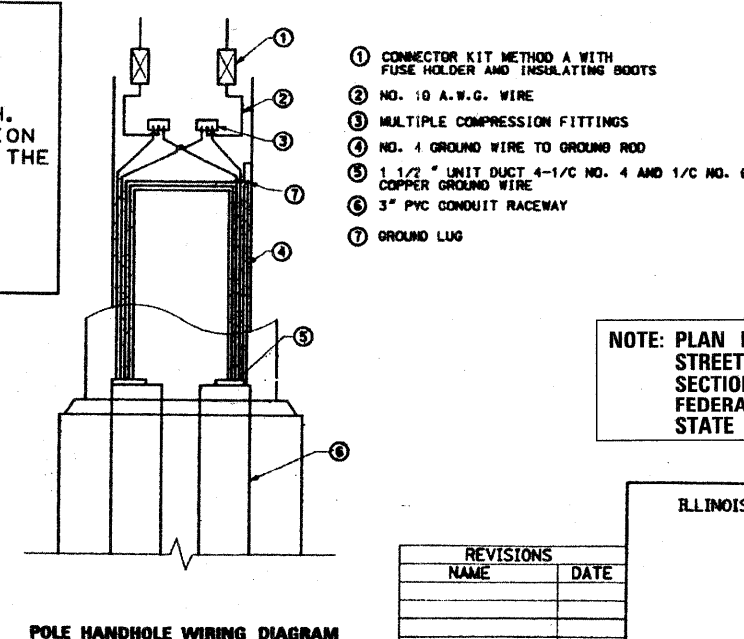
LIGHT STANDARD DETAIL

MATERIAL SPECIFICATIONS	
POLE & ARM TUBES	6063-T6
ANCHOR BASE & TRANSFORMER BASE	AA356-T6
SMALL HARDWARE	AISI 300 SERIES STN. STL.
EXTRUSIONS	6063-T6
T-BASE CORR. HROW	ASTM-A307
H.W. FRAME	AA356-T6
BOLT COVERS	ASTM-A253(AA356)

MTG. HT.	POLE SIZE	ARM SPREAD	ARM TUBE SIZE
43'-6"	.250"-10.0X6.0X45'-2"	15 FT.	125"W-4.0" O.D.
45'-0"			



BASE DATA



POLE HANDHOLE WIRING DIAGRAM

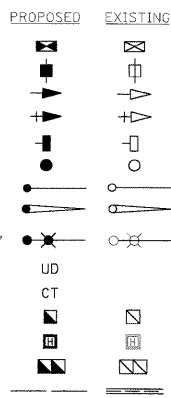
NOTE: PLAN DRAWING FROM WOLF ROAD STREET LIGHTING RECORD DRAWINGS SECTION: 96-00044-00-LT FEDERAL PROJECT: STPM-7003 (353) STATE SECTION: 2527L

REVISIONS	
NAME	DATE

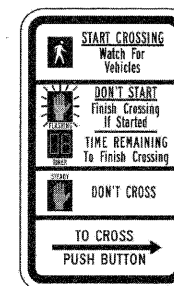
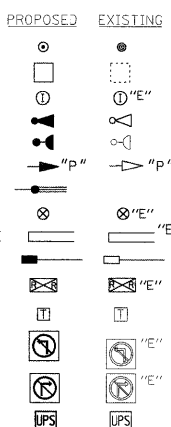
ILLINOIS DEPARTMENT OF TRANSPORTATION  
WOLF ROAD STREET LIGHTING  
DETAILS - 1

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
- UNIT DUCT
- COMMON TRENCH
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)

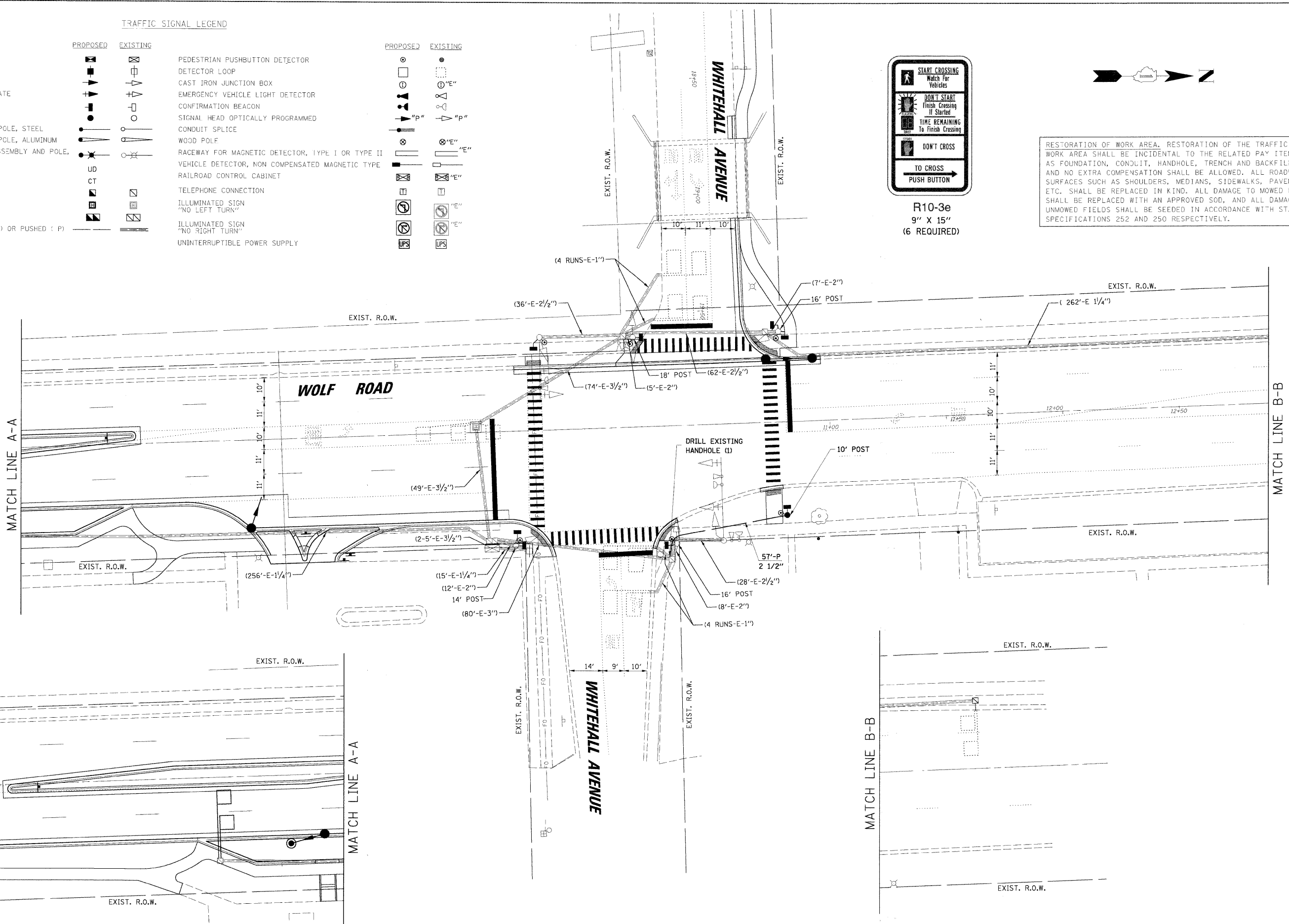


- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CAST IRON JUNCTION BOX
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- SIGNAL HEAD OPTICALLY PROGRAMMED
- CONDUIT SPLICE
- WOOD POLE
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
- RAILROAD CONTROL CABINET
- TELEPHONE CONNECTION
- ILLUMINATED SIGN "NO LEFT TURN"
- ILLUMINATED SIGN "NO RIGHT TURN"
- UNINTERRUPTIBLE POWER SUPPLY



R10-3e  
9" X 15"  
(6 REQUIRED)

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 SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



FILE NAME = N:\NORTH LAKE\9400320C95\Traffic\MOD\_9400320C95.dgn  
USER NAME = EDTODA  
DESIGNED - MKJ  
DRAWN - MKJ  
CHECKED - GMZ  
DATE - 03/27/09

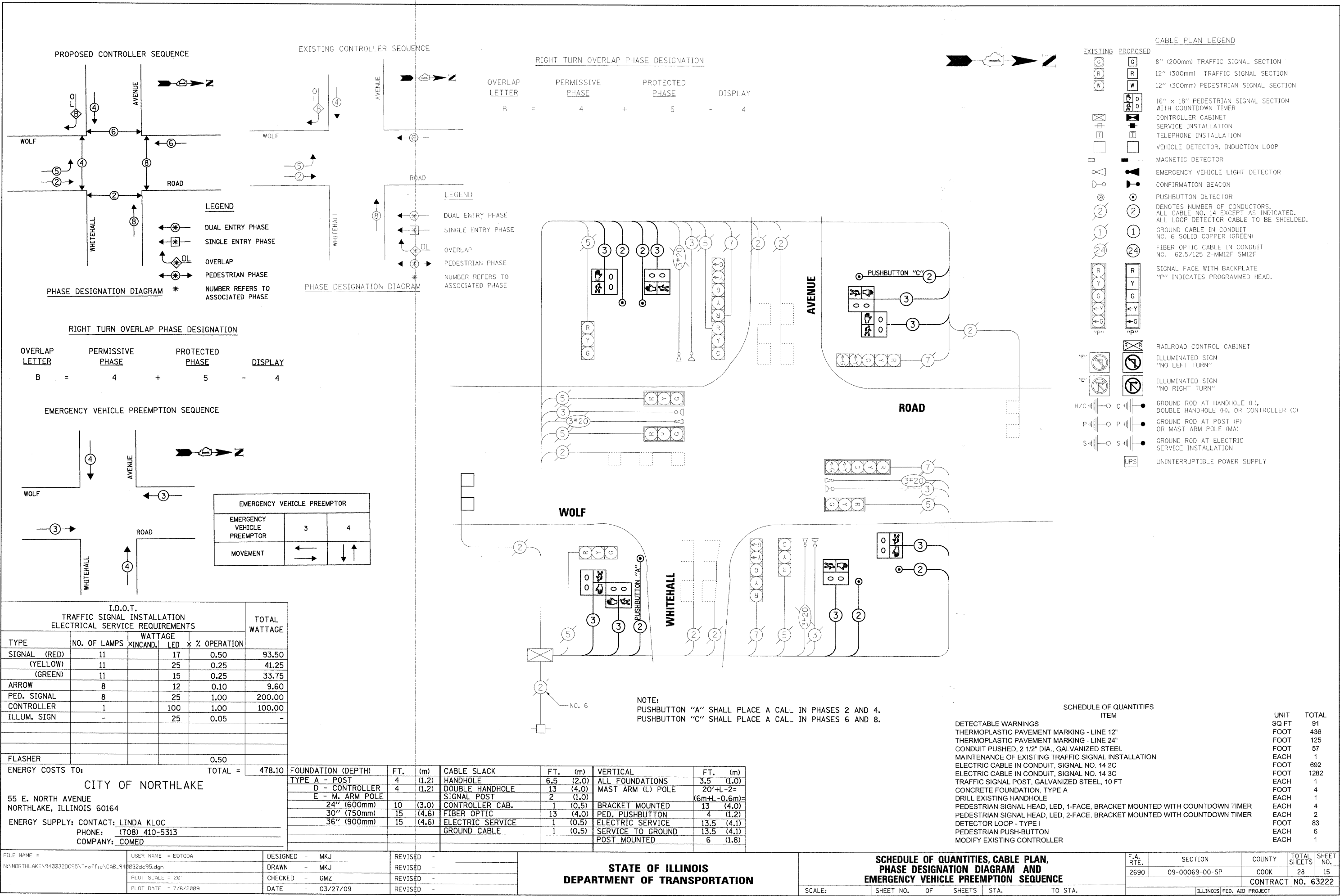
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN

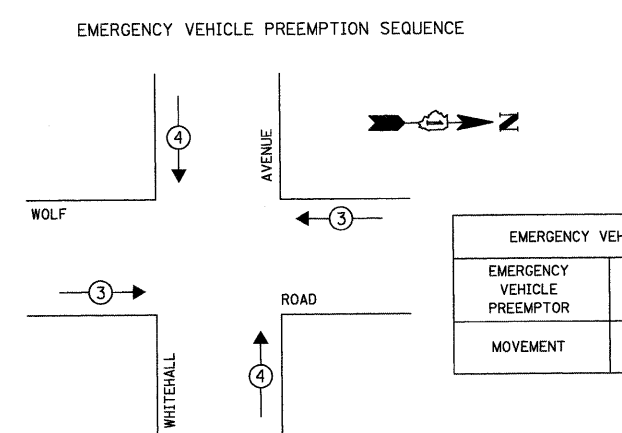
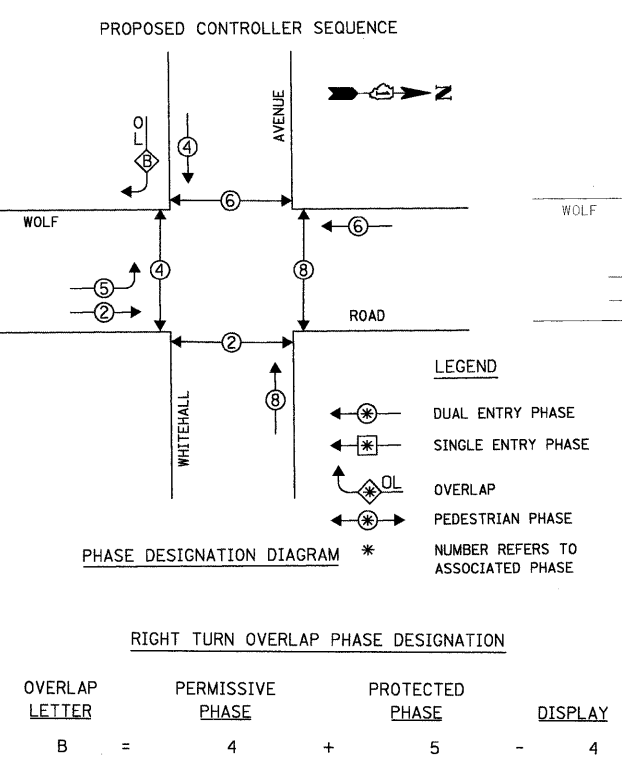
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2690	09-00069-00-SP	COOK	28	14
CONTRACT NO. 63222				
ILLINOIS FED. AID PROJECT				



**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" (200mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	16" x 18" PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	TELEPHONE INSTALLATION
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
[Symbol]	[Symbol]	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SMI2F
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	ILLUMINATED SIGN "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN "NO RIGHT TURN"
[Symbol]	[Symbol]	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
[Symbol]	[Symbol]	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY



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

TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	17	0.50		93.50
(YELLOW)	11	25	0.25		41.25
(GREEN)	11	15	0.25		33.75
ARROW	8	12	0.10		9.60
PED. SIGNAL	8	25	1.00		200.00
CONTROLLER	1	100	1.00		100.00
ILLUM. SIGN	-	25	0.05		-
FLASHER			0.50		
<b>TOTAL</b>					<b>478.10</b>

FOUNDATION (DEPTH)	FT.	(m)	CABLE SLACK	FT.	(m)	VERTICAL	FT.	(m)
TYPE A - POST	4	(1.2)	HANDHOLE	6.5	(2.0)	ALL FOUNDATIONS	3.5	(1.0)
D - CONTROLLER	4	(1.2)	DOUBLE HANDHOLE	13	(4.0)	MAST ARM (L) POLE	20'-H-2=	
E - M. ARM POLE	2	(1.0)	SIGNAL POST	2	(1.0)	(6m-H-0.6m)=		
24" (600mm)	10	(3.0)	CONTROLLER CAB.	1	(0.5)	BRACKET MOUNTED	13	(4.0)
30" (750mm)	15	(4.6)	FIBER OPTIC	13	(4.0)	PED. PUSHBUTTON	4	(1.2)
36" (900mm)	15	(4.6)	ELECTRIC SERVICE	1	(0.5)	ELECTRIC SERVICE	13.5	(4.1)
			GROUND CABLE	1	(0.5)	SERVICE TO GROUND	13.5	(4.1)
						POST MOUNTED	6	(1.8)

NOTE: PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4. PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

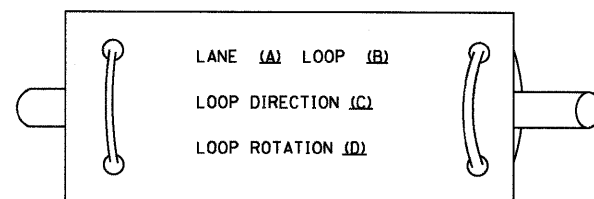
**SCHEDULE OF QUANTITIES ITEM**

ITEM	UNIT	TOTAL
DETECTABLE WARNINGS		
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	SQ FT	91
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	436
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	125
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	FOOT	57
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	692
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT	FOOT	1282
CONCRETE FOUNDATION, TYPE A	EACH	1
DRILL EXISTING HANDHOLE	FOOT	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
DETECTOR LOOP - TYPE I	EACH	2
PEDESTRIAN PUSH-BUTTON	FOOT	83
MODIFY EXISTING CONTROLLER	EACH	6
	EACH	1

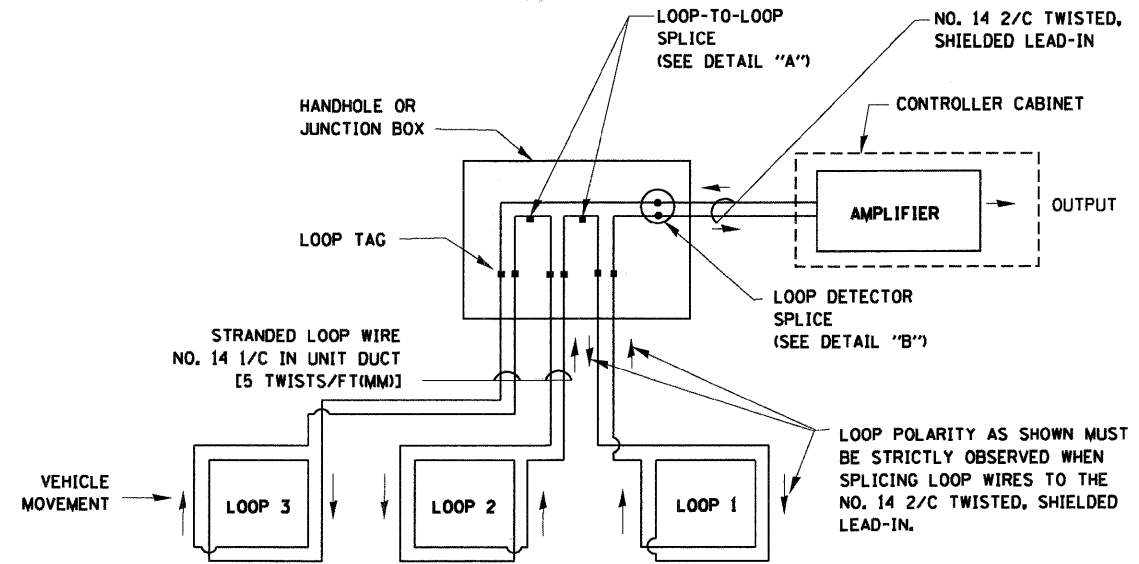
## LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 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.
- 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.
- 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

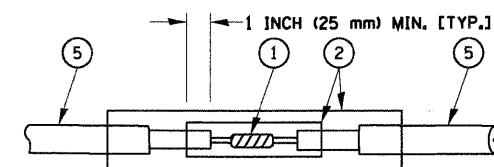


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

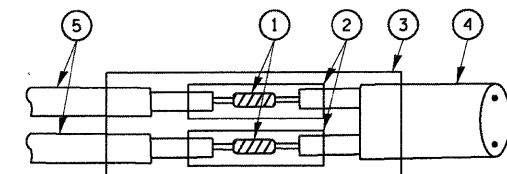


### DETECTOR LOOP WIRING SCHEMATIC

- 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

### LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

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		DRAWN - R.W.P.	REVISED - BUR. TRAFFIC 01-01-02
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

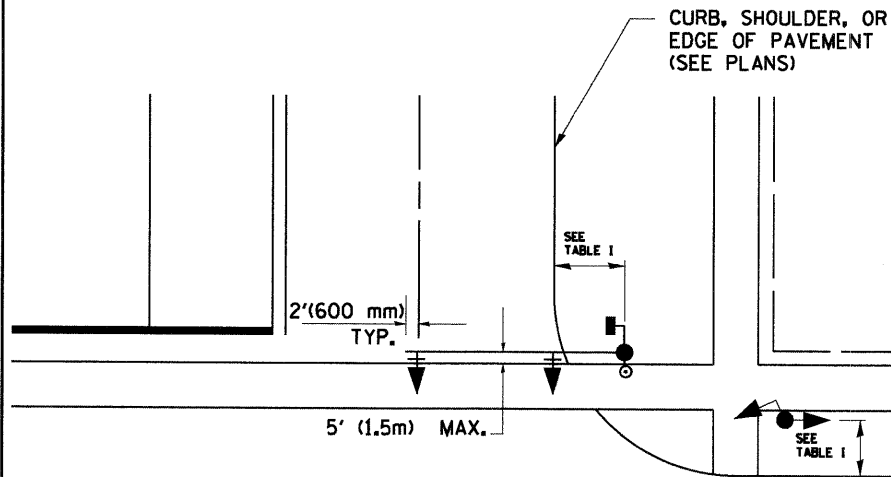
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F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05			CONTRACT NO. 63222	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

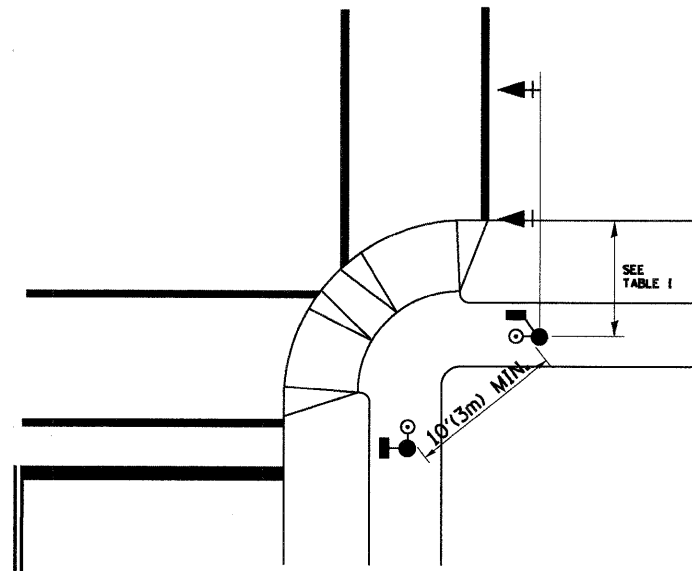


**TRAFFIC SIGNAL MAST ARM AND POST**

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



**PEDESTRIAN SIGNAL PUSHBUTTON**



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

**NOTES:**

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.  
  
AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.  
  
PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:  
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.  
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.  
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.  
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).  
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

**PEDESTRIAN SIGNAL POST**

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

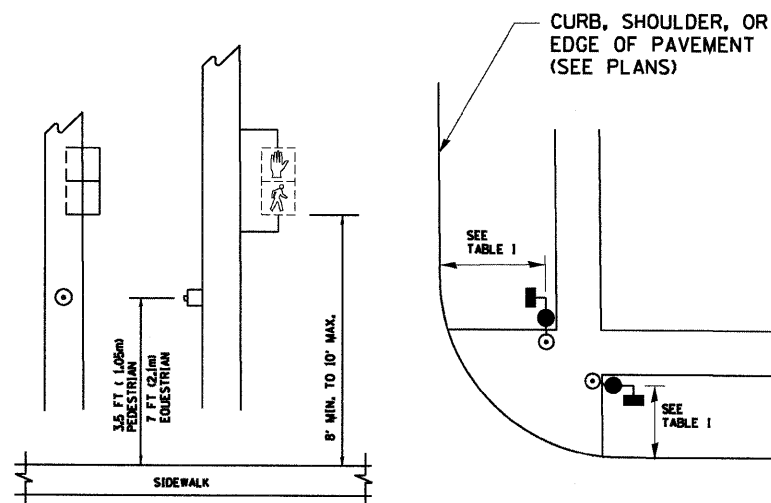
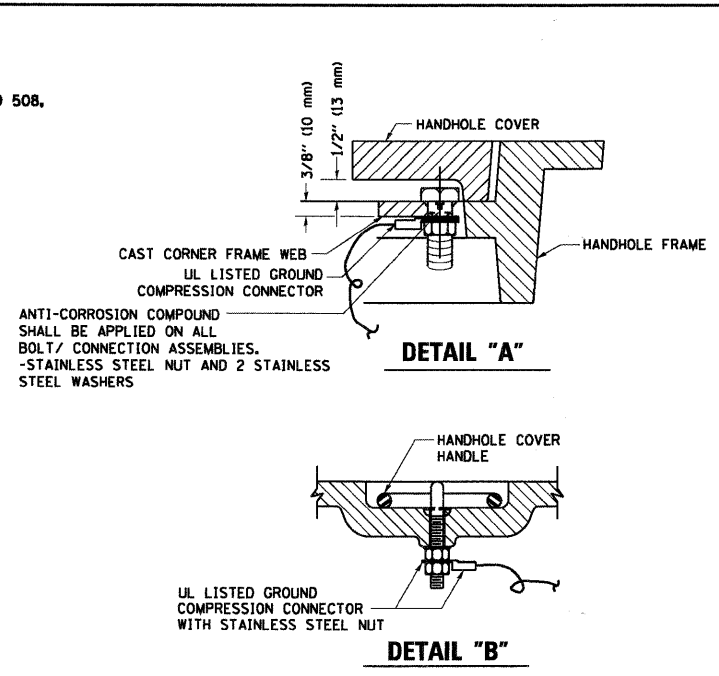
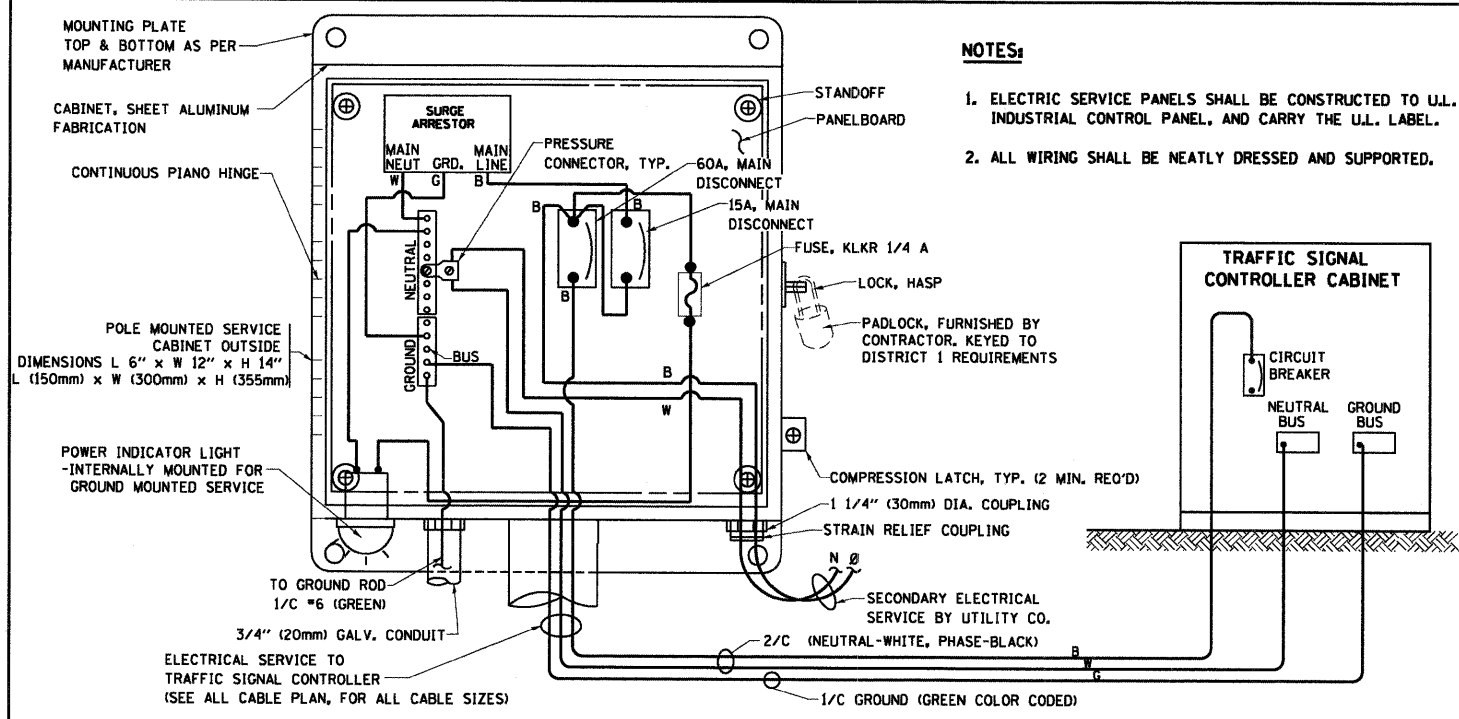


TABLE I

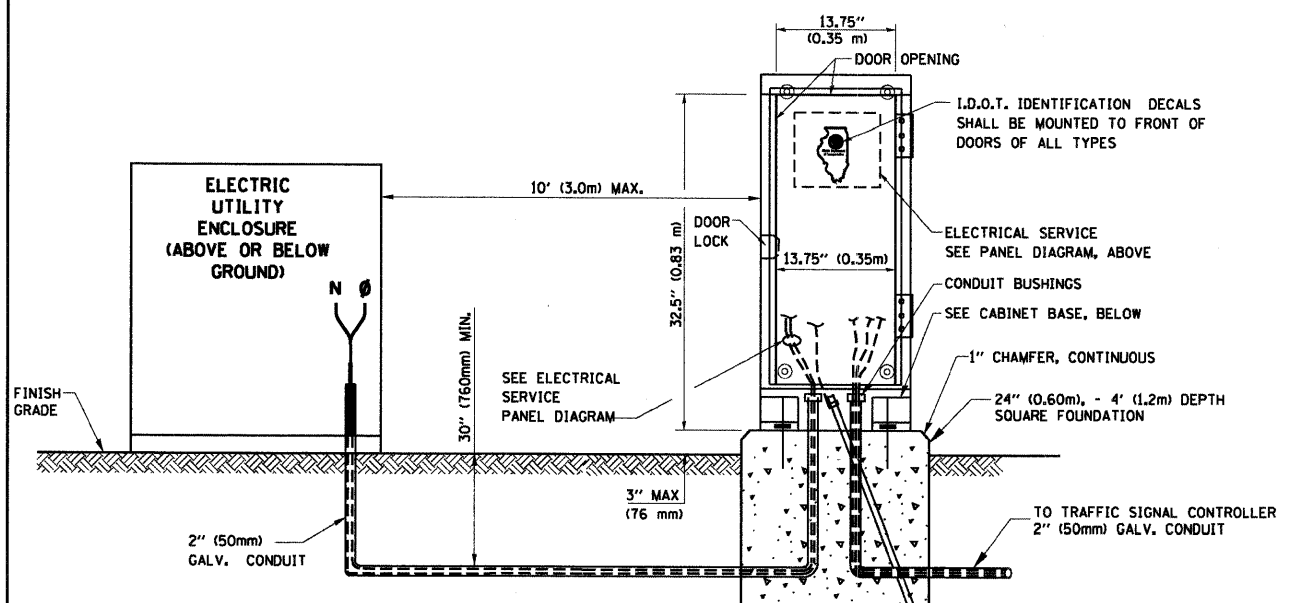
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1



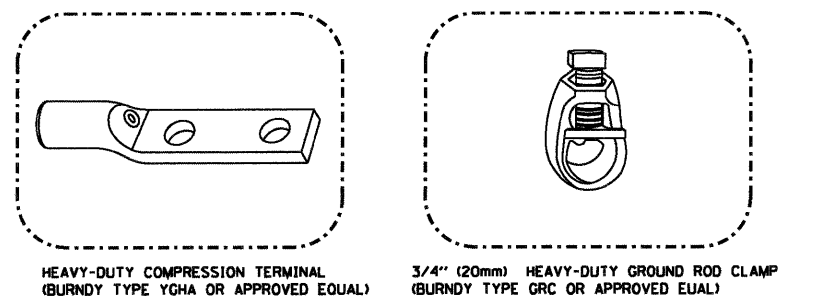
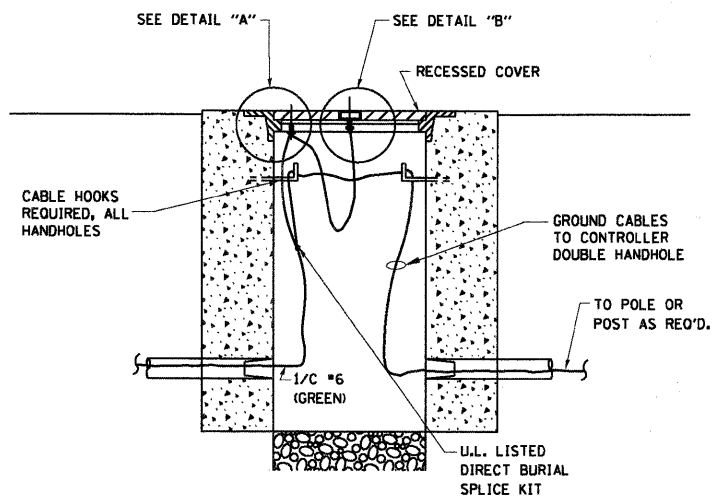
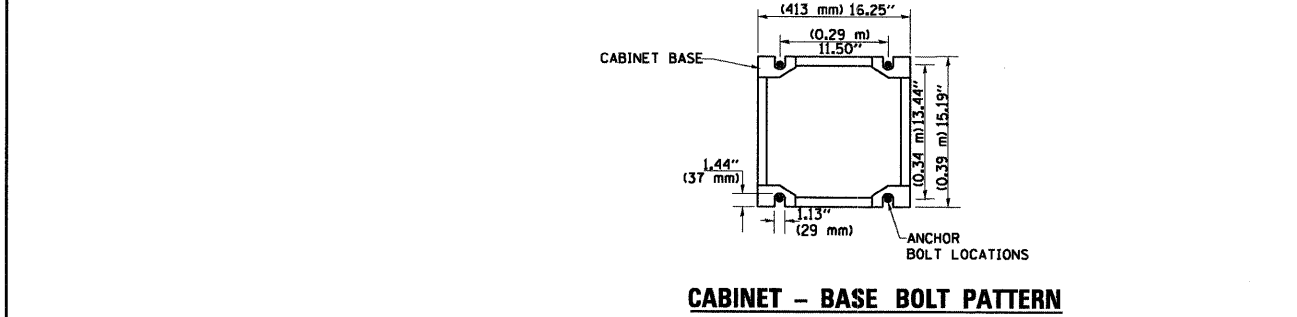
- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED 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.

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

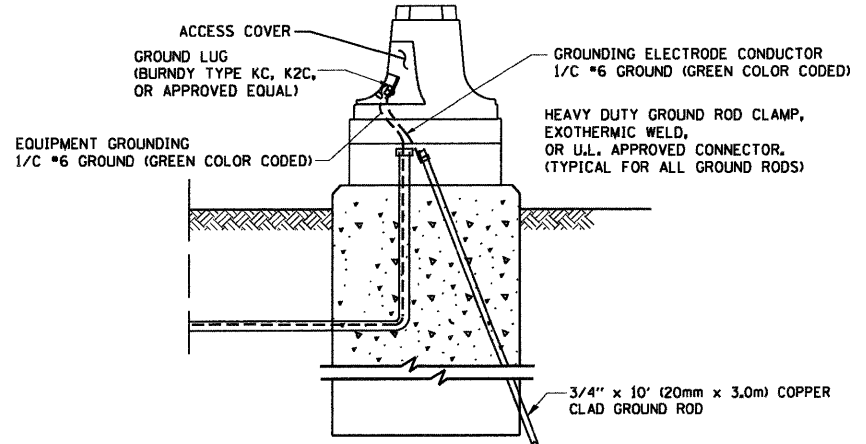
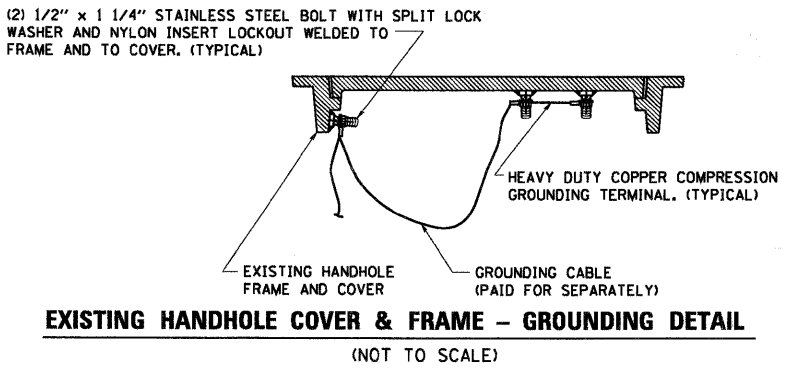
**SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**



**SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)**



- 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.



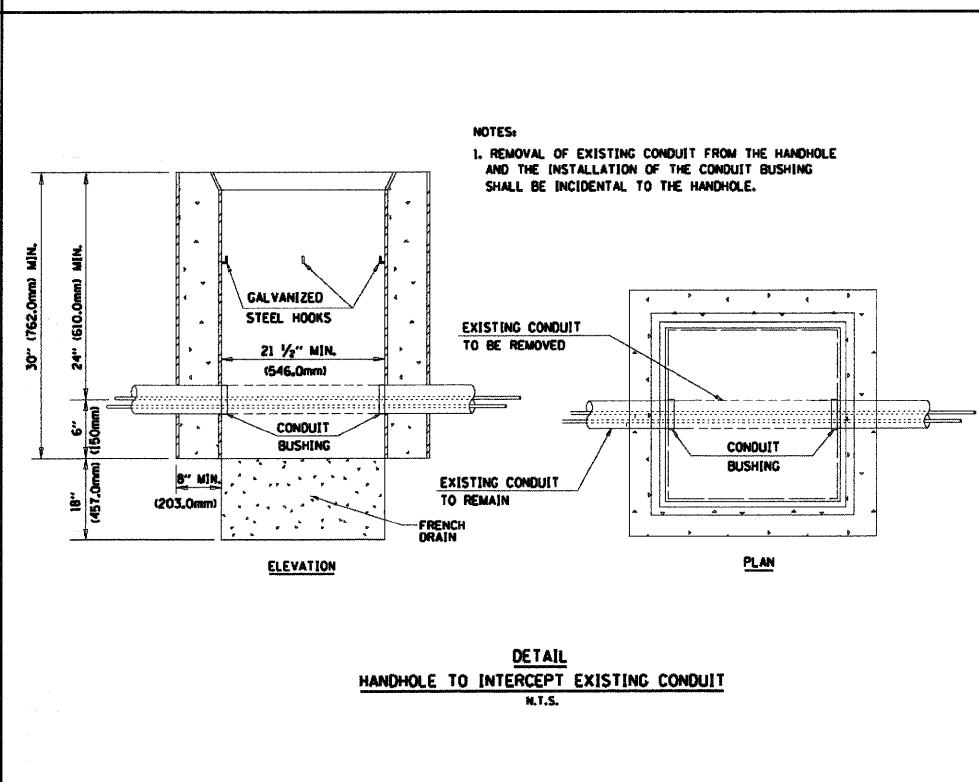
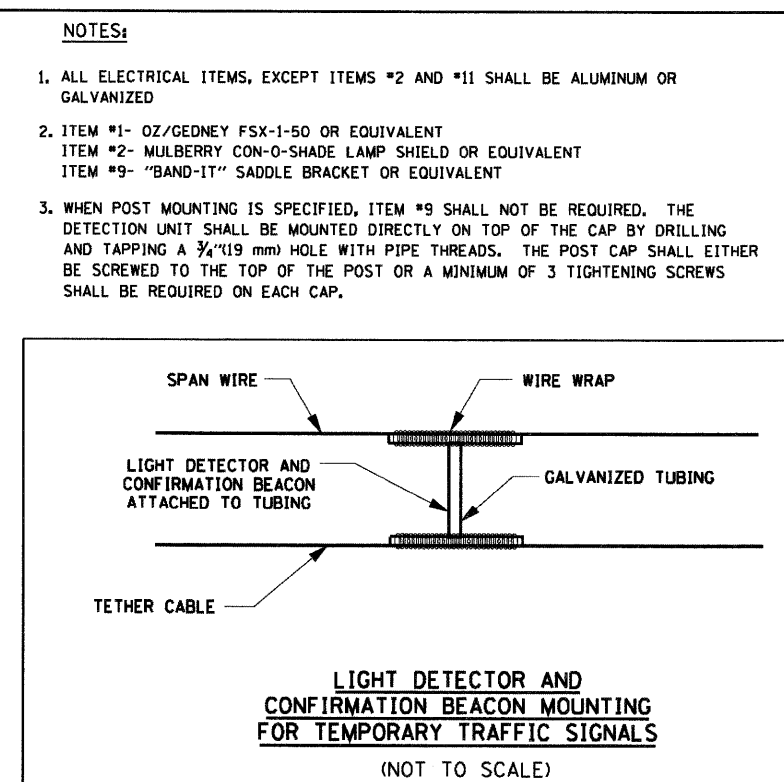
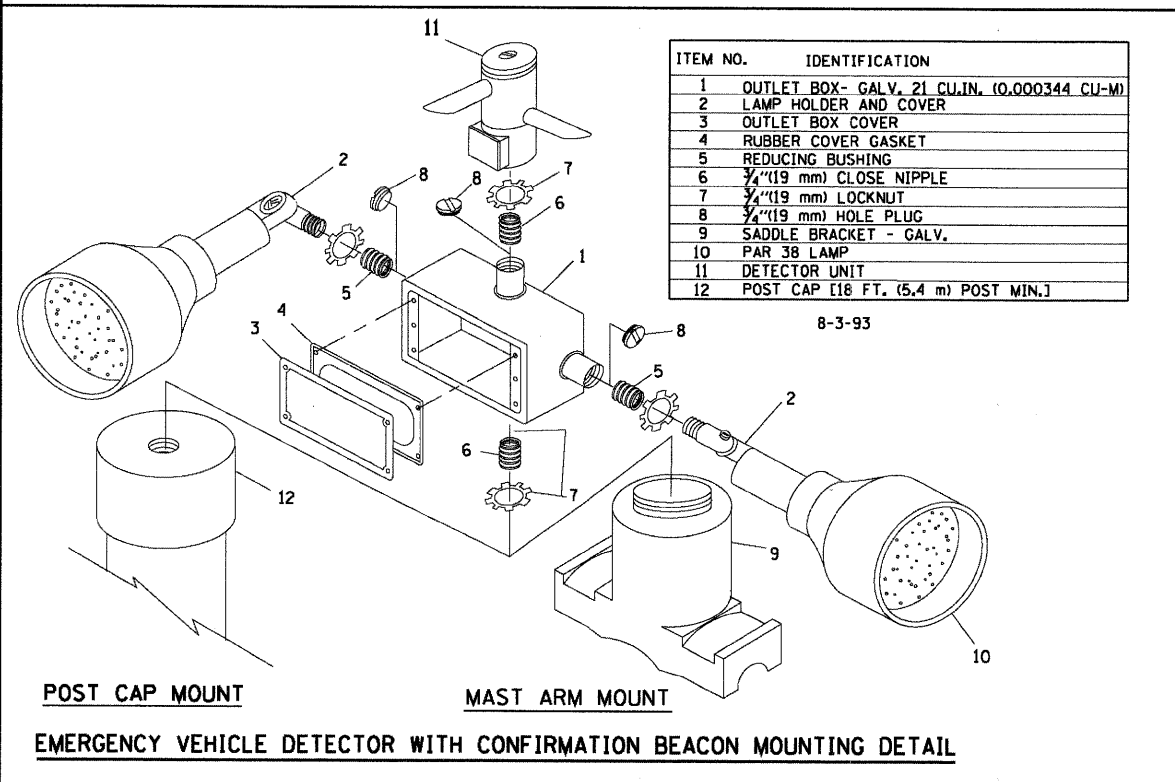
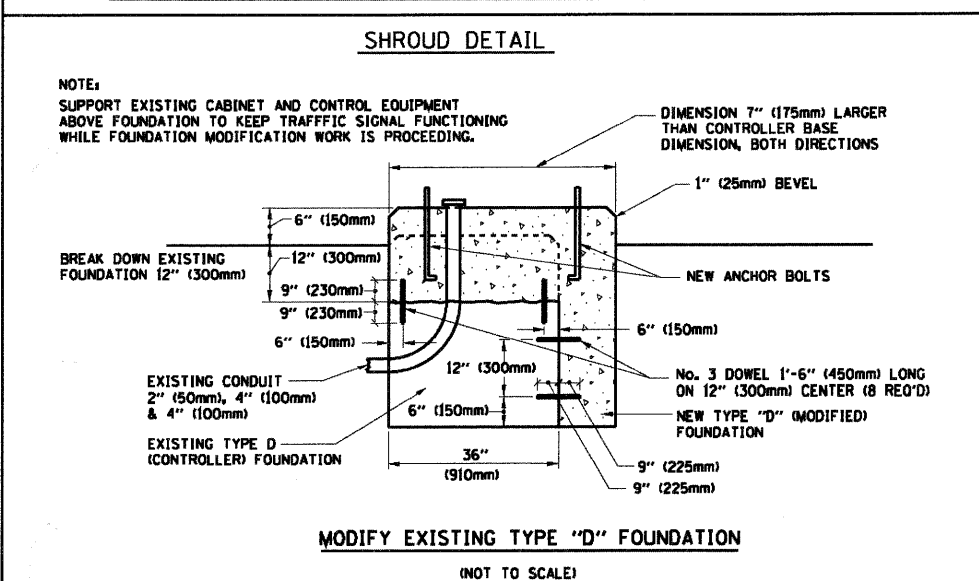
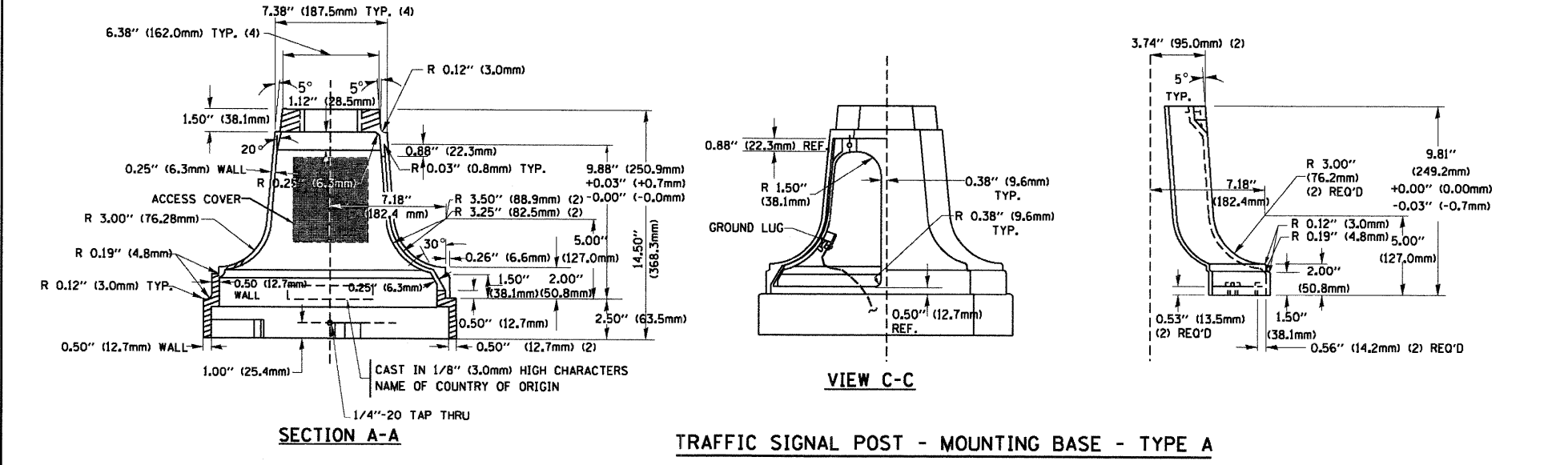
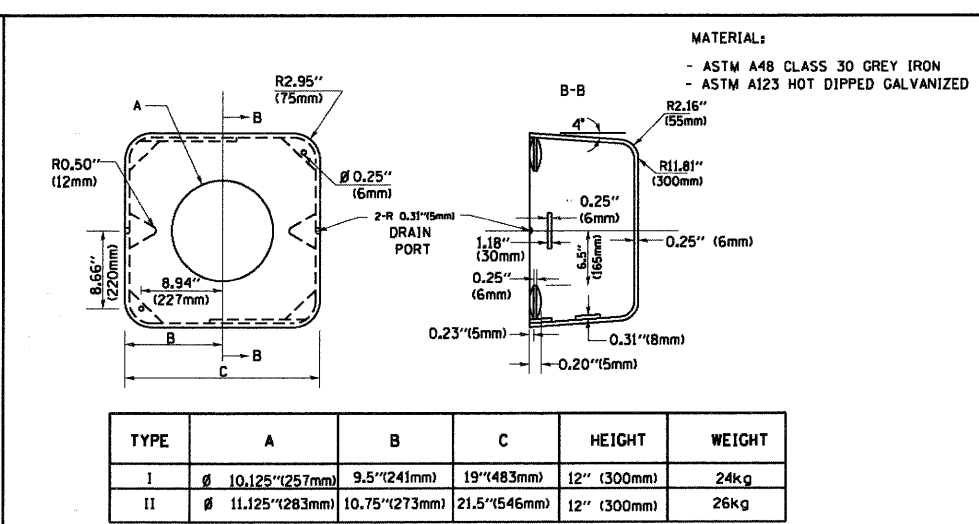
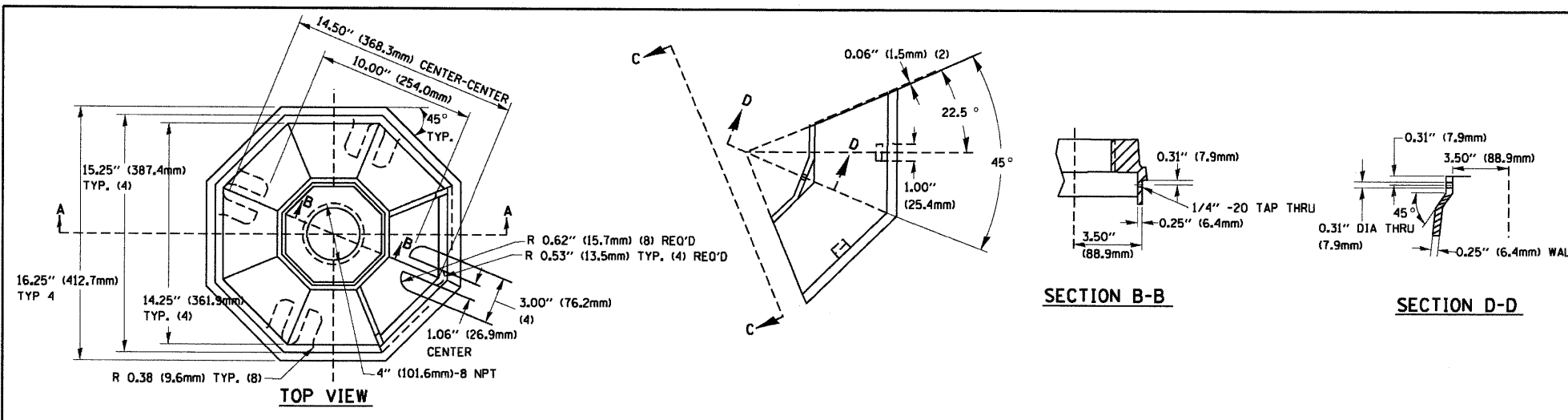
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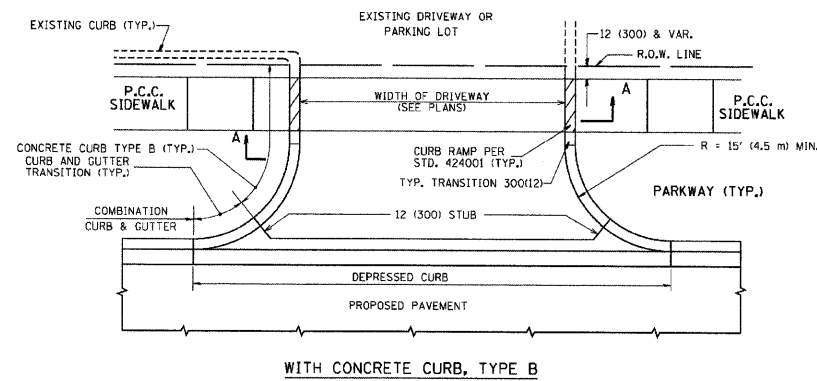
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

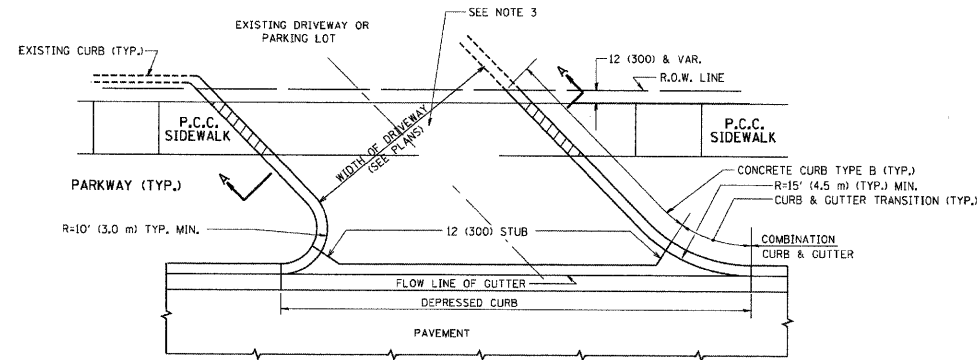
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05		28	18
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63222	

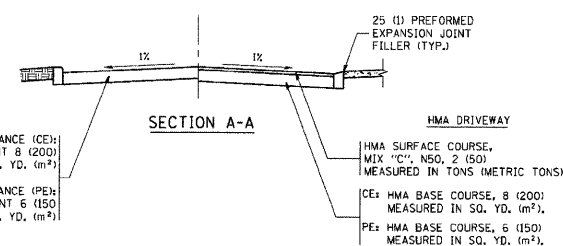




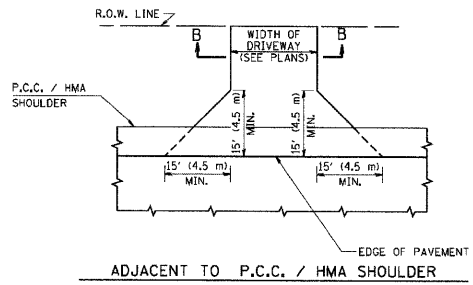
WITH CONCRETE CURB, TYPE B



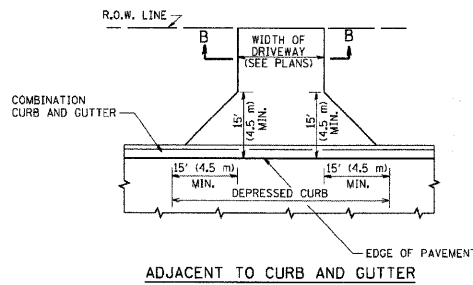
WITH CONCRETE CURB, TYPE B



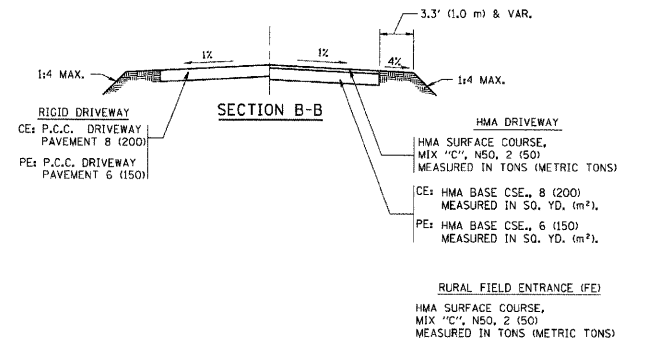
SECTION A-A



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



GENERAL NOTES:

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

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

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

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

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

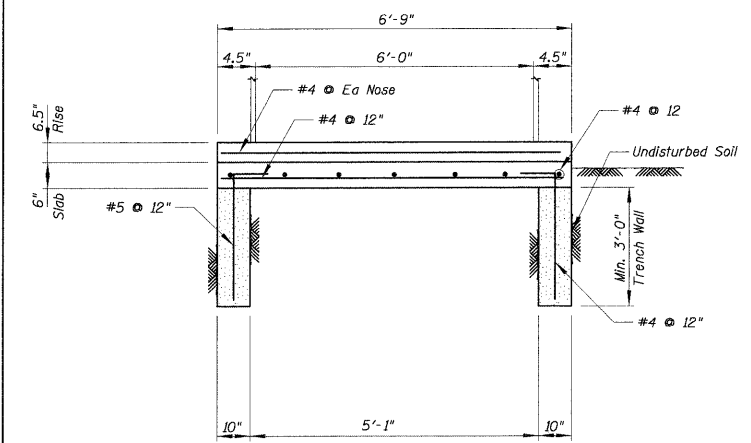
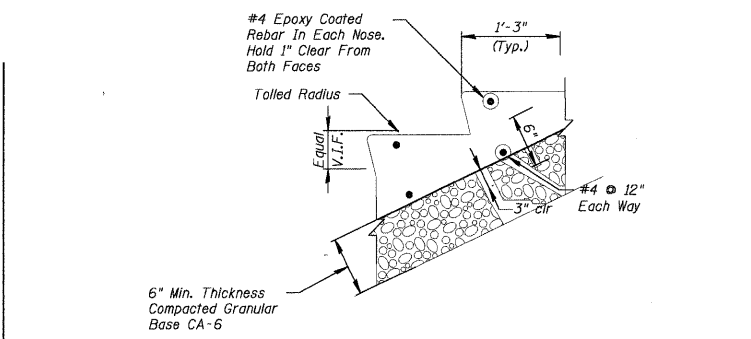
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

REVISIONS	NAME	DATE
R. SHAH		11-04-95
J. POLLASTRINI		08-12-96
J. POLLASTRINI		12-14-96
A. ABRAS		03-21-97
T. HOLTZ		04-08-97
M. GOMEZ		04-06-01
P. LEFLEUR		04-15-03
R. BORO		01-01-07
R. BORO		06-11-08

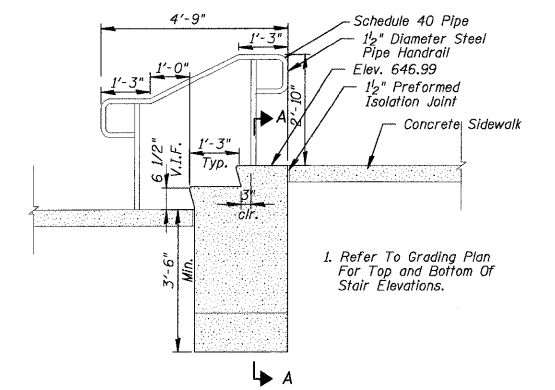
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

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

SCALE: VERT. NONE HORIZ. NONE DRAWN BY CHECKED BY



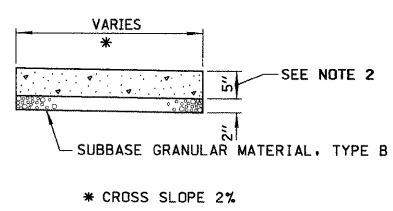
A Section - Stairs



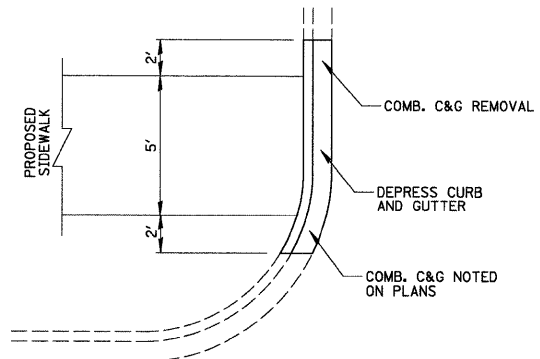
Section - Stairs

- NOTES:
1. STAIR FOUNDATION IS BASED ON TRENCH EXCAVATION. IF CONTRACTOR USES OPEN EXCAVATION, 22" WIDE X 12" THICK FOOTINGS NEED TO BE PROVIDED UNDER WALLS.
  2. STAIRS TO BE PAID FOR AS CONCRETE STRUCTURES.

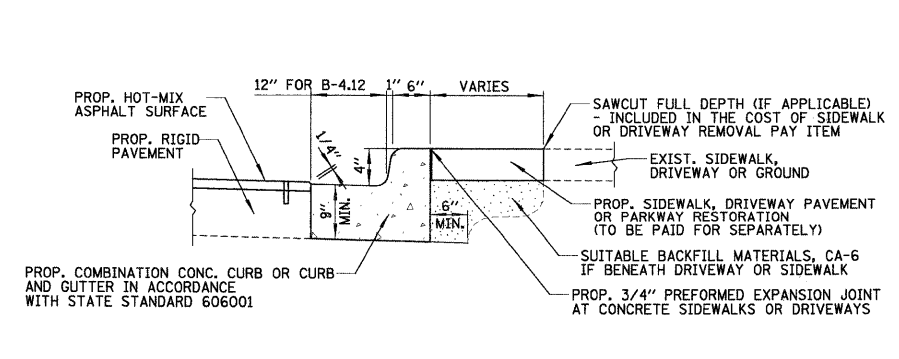
1. Refer To Grading Plan For Top and Bottom Of Stair Elevations.



P.C.C. SIDEWALK DETAIL



PROPOSED DEPRESSED CURB & GUTTER  
EXISTING CURB & GUTTER NOT DEPRESSED

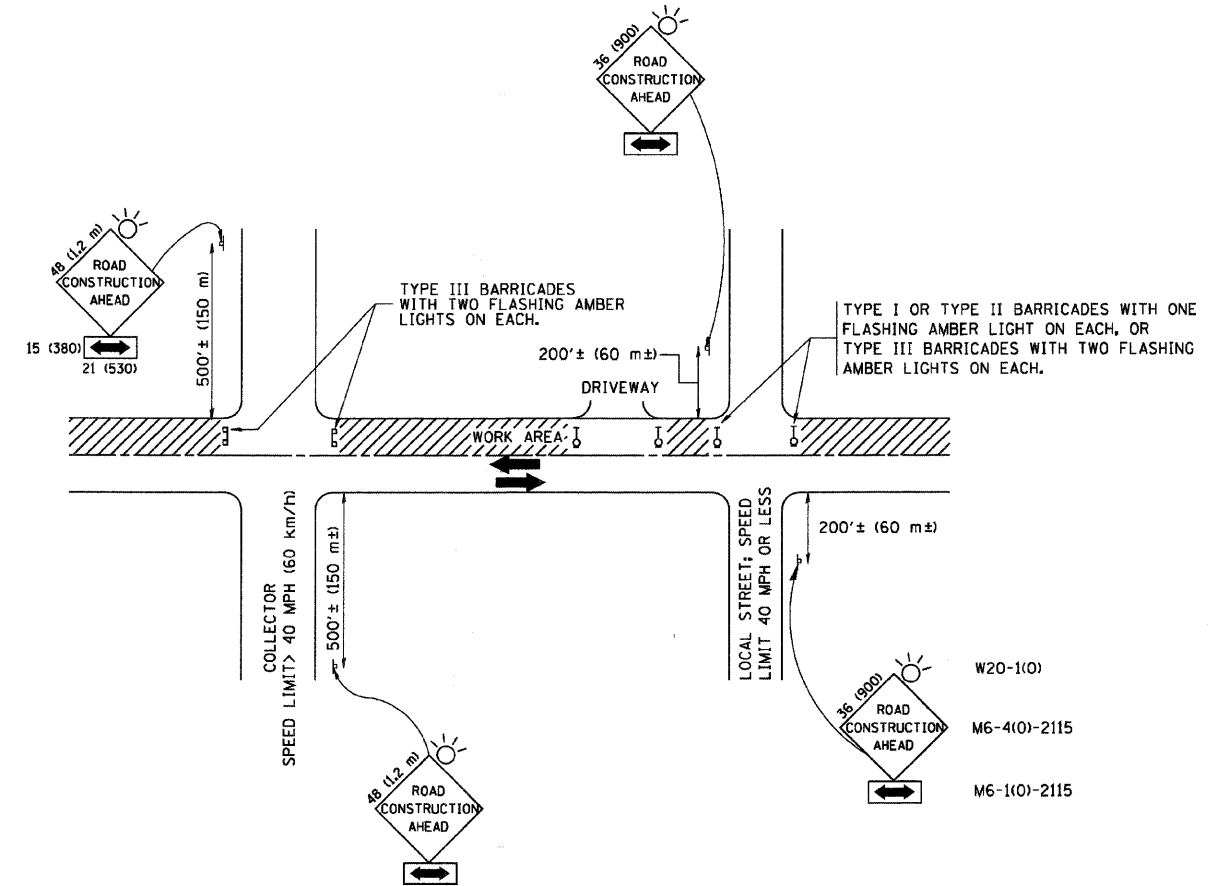


COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12  
NOT TO SCALE

- NOTES:
1. ALL REQUIRED EARTH EXCAVATION TO CONSTRUCT P.C.C. SIDEWALK SHALL BE INCLUDED IN THE COST FOR P.C.C. SIDEWALK.
  2. THICKNESS SHALL BE INCREASED TO 7" WHERE SIDEWALK IS ADJACENT TO A DRIVEWAY
  3. WHEN FORMS ARE REMOVED FROM THE SIDEWALK EITHER THE SIDEWALK SHALL BE BARRICADED OR BACKFILLED WITHIN 24 HOURS.

FILE NAME = N:\NORTHLAKE\940032DC95\Civil\detl.9400320C95.sht	USER NAME = EDTODA	DESIGNED - AMP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DESIGNED - AMP	DRAWN - EDT	REVISED -	2690					09-00069-00-SP	COOK	28	20	
PLOT SCALE = N.T.S.	CHECKED - MEW	REVISED -	CONTRACT NO. 63222									
PLOT DATE = 7/6/2009	DATE - 03/27/09	REVISED -	ILLINOIS FED. AID PROJECT									





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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

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

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

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL AND PROTECTION FOR  
 SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE      DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

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	PLOT SCALE = N.T.S.	CHECKED - MEW	REVISED -
	PLOT DATE = 7/6/2009	DATE - 03/27/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR  
 SIDE ROADS, INTERSECTIONS AND DRIVEWAYS

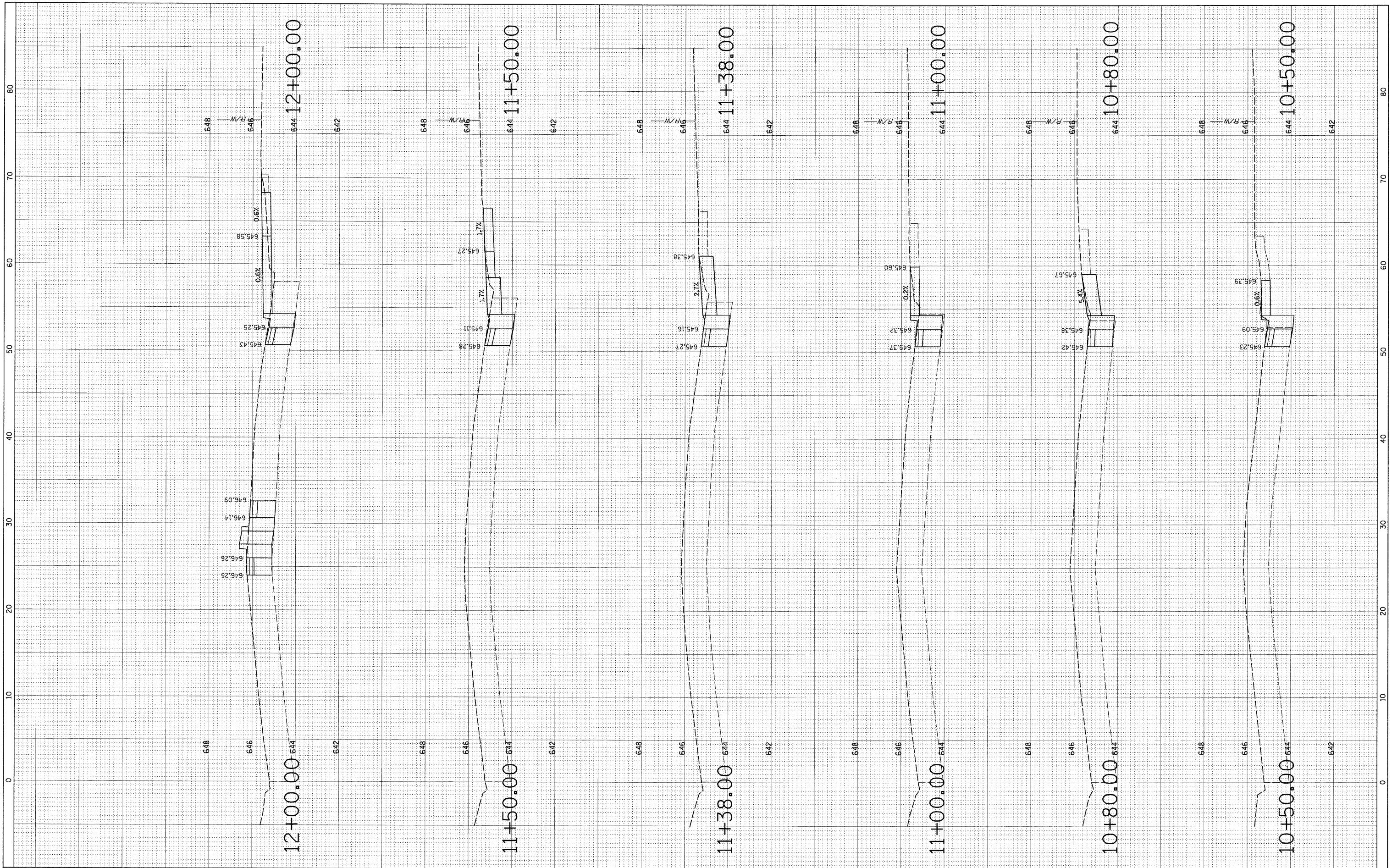
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2690	09-00069-00-SP	COOK	28	22
CONTRACT NO. 63222				

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
AREAS CHECKED	DATE		

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



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 DESIGNED - AMP  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

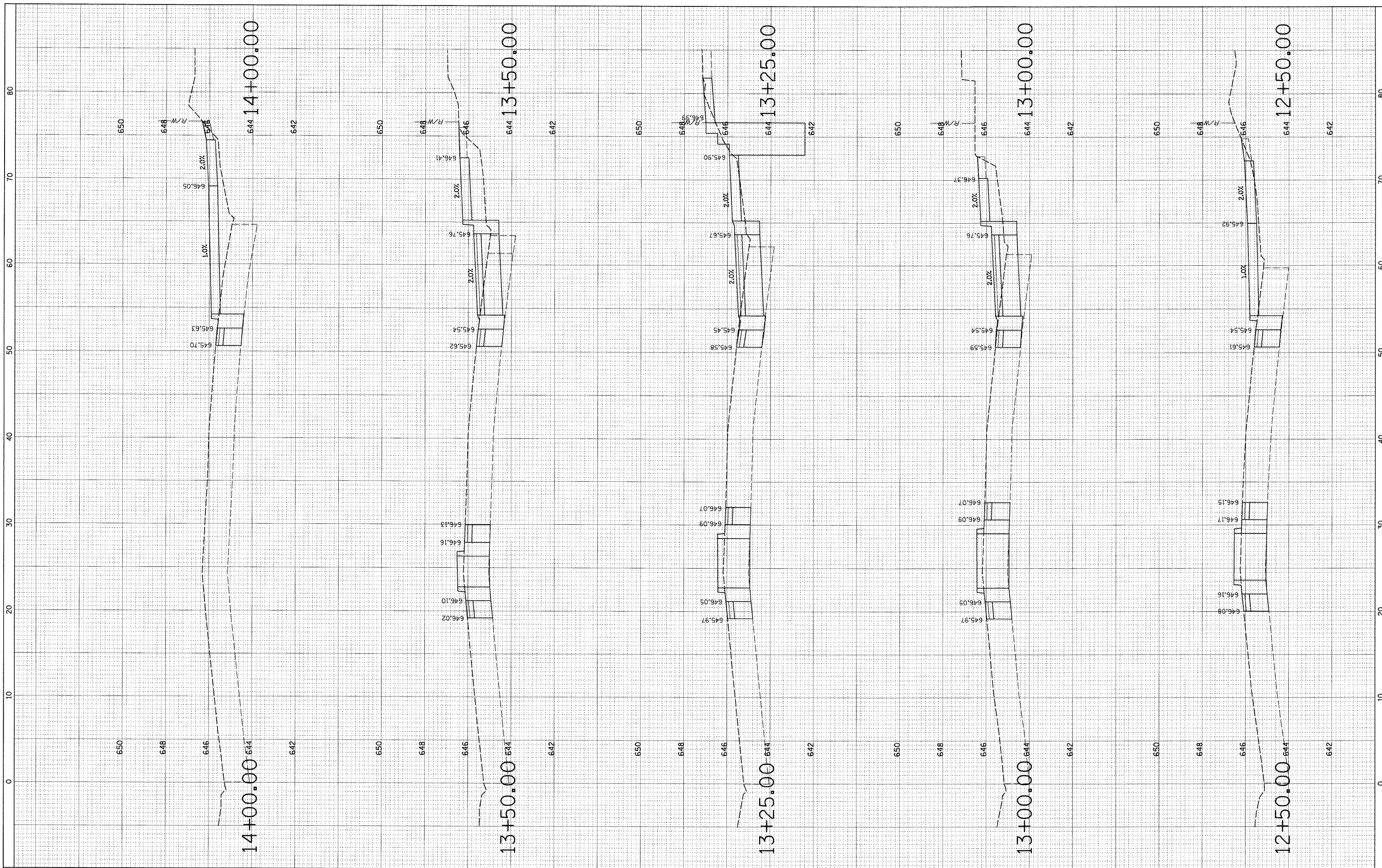
**CROSS SECTIONS  
 WOLF ROAD**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2690	09-00069-00-SP	COOK	28	23
CONTRACT NO. 63222				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	DATE		
	AREAS CHECKED		

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



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 CHECKED - MEW  
 DATE - 03/27/09

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 WOLF ROAD**

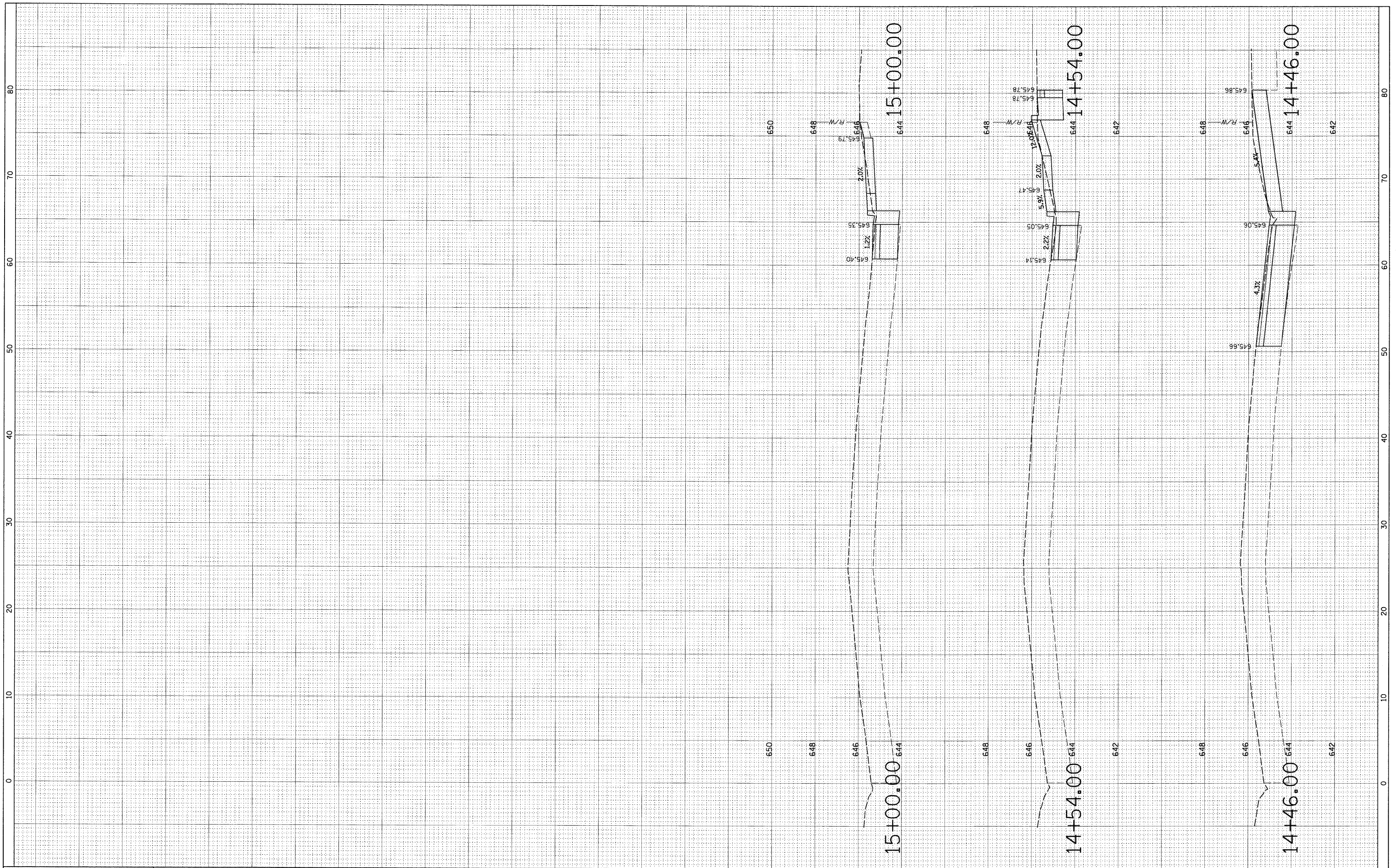
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2690	09-00069-00-SP	COOK	28	24
CONTRACT NO. 63222				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	DATE		
	AREAS CHECKED		

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



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PLOT DATE = 7/6/2009	CHECKED - MEW	REVISED -
	DATE - 03/27/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

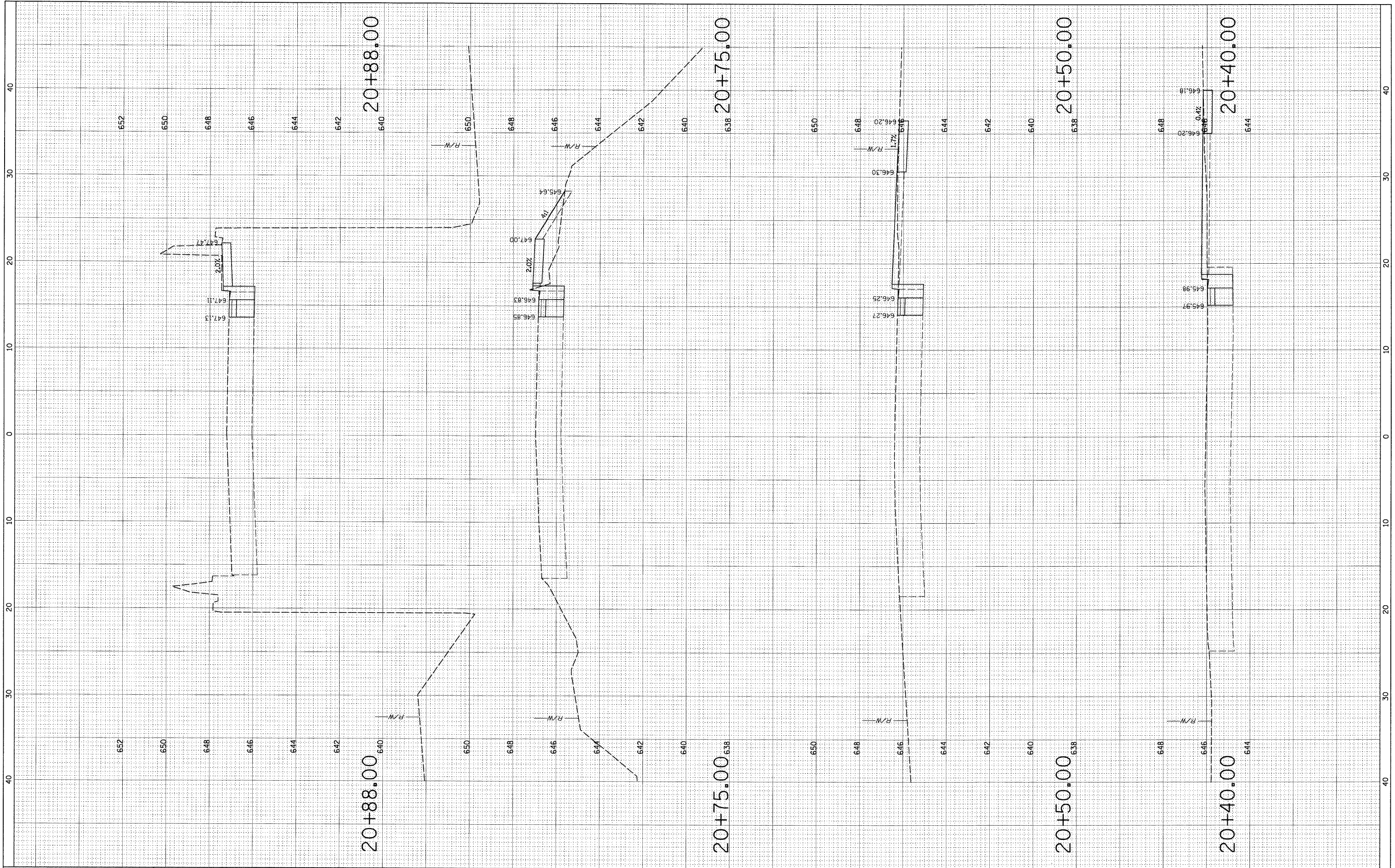
**CROSS SECTIONS  
WOLF ROAD**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2690	09-00069-00-SP	COOK	28	25
CONTRACT NO. 63222				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	DATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	DATE		
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 DESIGNED - AMP  
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 DATE - 03/27/09

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 WHITEHALL AVENUE**

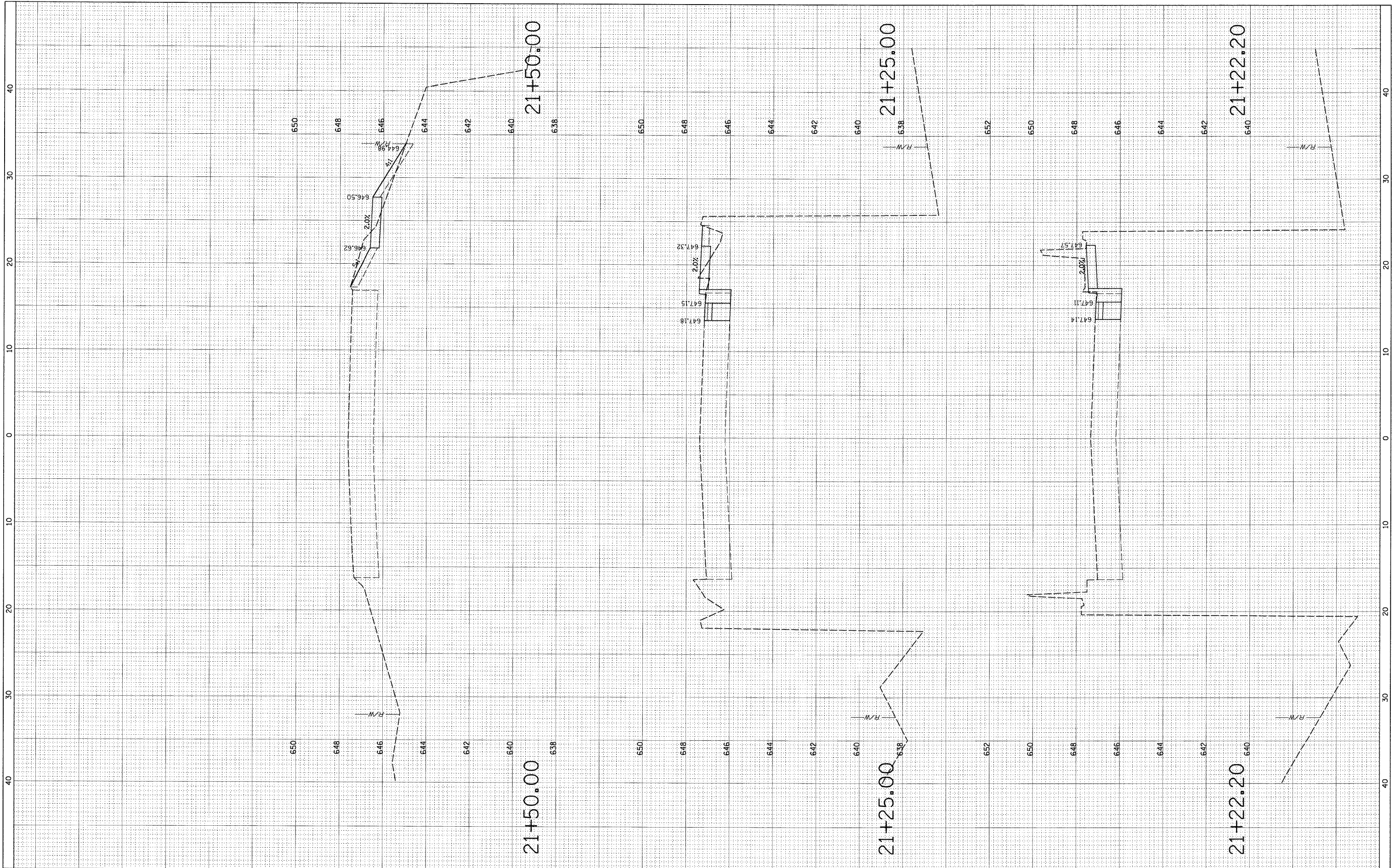
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F.A. RTE. 2690	SECTION 09-0069-00-SP	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 26
CONTRACT NO. 63222				

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		



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USER NAME = EDTODA  
 DESIGNED - AMP  
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 CHECKED - MEW  
 DATE - 03/27/09

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

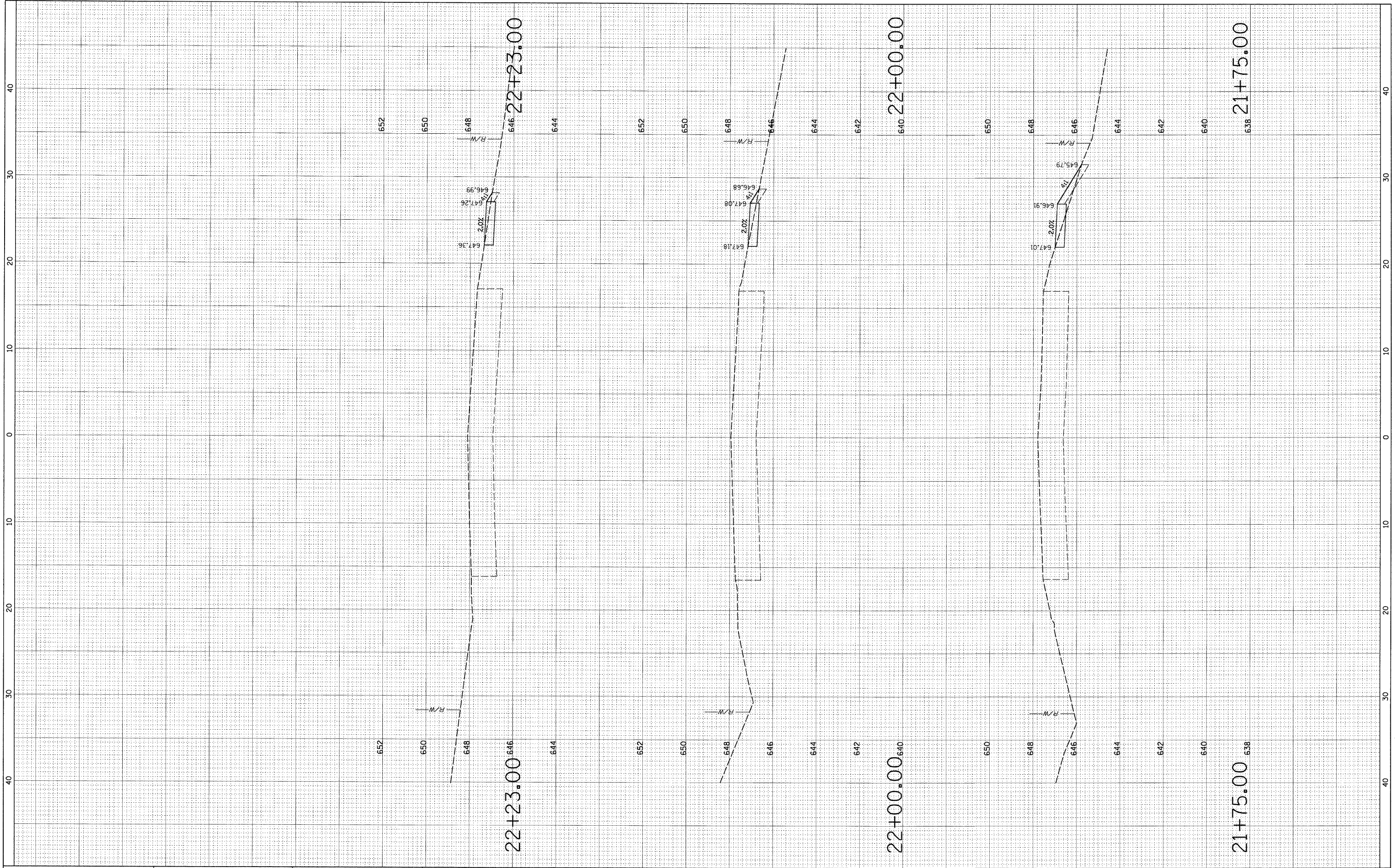
**CROSS SECTIONS  
 WHITEHALL AVENUE**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2690	09-00069-00-SP	COOK	28	27
CONTRACT NO. 63222				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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USER NAME = EDT00A  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

**CROSS SECTIONS  
 WHITEHALL AVENUE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2690	09-00069-00-SP	COOK	28	28
CONTRACT NO. 63222				
ILLINOIS FED. AID PROJECT				