~~1-15-10 Letting, Item 053~~

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 83909		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED PLANS FOR FEDERAL–AID HIGHWAY

FAU ROUTE 0332 – ILLINOIS ROUTE 1 (DIXIE HIGHWAY)
INTERSECTION OF DIXIE HIGHWAY AND CHESTNUT LANE
TRAFFIC SIGNAL INSTALLATION PLAN
SECTION 06–00015–00–TL
PROJECT NO. M–8003(690)
JOB NO. C91–021–07

VILLAGE OF BEECHER
WILL COUNTY

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, HIGHWAY STANDARDS AND DISTRICT STANDARDS
3-4	SUMMARY OF QUANTITIES
5	ROADWAY PLAN
6-8	TRAFFIC SIGNAL INSTALLATION PLAN - CHESTNUT LANE
9	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM - CHESTNUT LANE
10-11	TRAFFIC SIGNAL INSTALLATION PLAN - CHURCH ROAD
12	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM - CHURCH ROAD
13	INTERCONNECT PLAN
14	INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
15-18	PAVEMENT MARKINGS
19	MAST ARM MOUNTED STREET NAME SIGNS (TS-02)
20	DETAILS
21-31	DISTRICT DETAILS

ADT DIXIE HIGHWAY (2007) - 11,200
ADT DIXIE HIGHWAY (2030) - 22,767

VILLAGE OF BEECHER
POLICE DEPARTMENT (708) 946-2341

POSTED SPEED LIMIT
DIXIE HIGHWAY - 35, 40 MPH
CHESTNUT LANE - 25 MPH

0 50' 100' — 1"= 50'

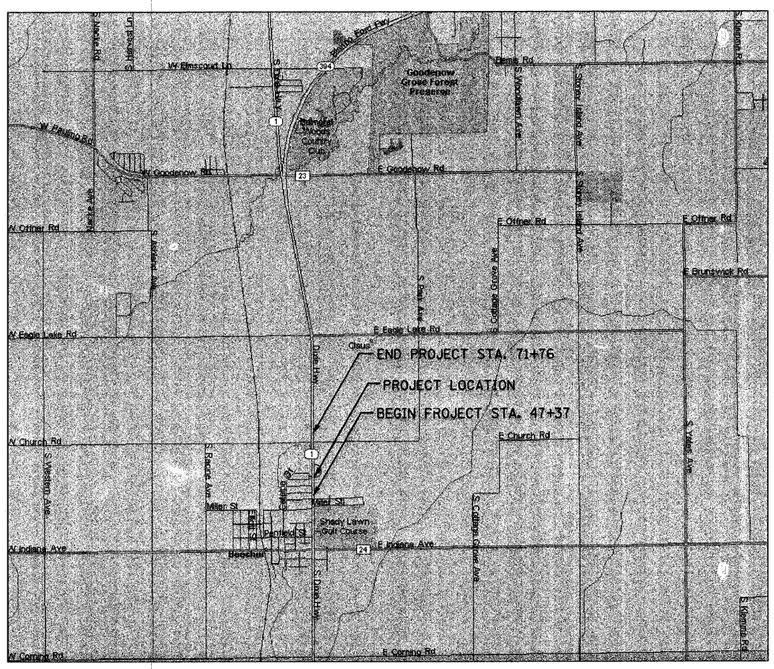
0 50' 100' — 1"= 20'

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

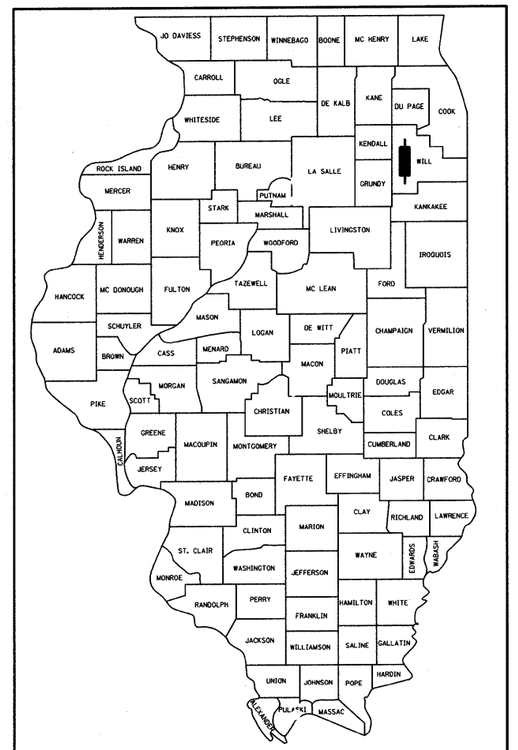
T 33 N

R 14 E



N

GROSS PROJECT LENGTH: 2,439 FEET = 0.46 MILES
NET PROJECT LENGTH: 2,439 FEET = 0.46 MILES



LOCATION OF SECTION INDICATED THUS: –

JOSEPH W. McKENNA
062-060875
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
10/16/10 EXP. 11/30/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED Robert O. Barker, Village Administrator
July 13, 2009
VILLAGE OF BEECHER

PASSED October 26, 2009
Christopher Holbolt
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW October 26, 2009
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

STRAND ASSOCIATES, INC.®
ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT MANAGER: RAYMOND KUMAPLEY (815)744-4200

FIELD ENGINEER: MELCHOR MANGOBA (847) 705-4408

CONTRACT NO. 83909

GENERAL NOTES

1. THE LOCATIONS OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.

2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AND THE VILLAGE OF BEECHER PUBLIC WORKS (708-946-2261) FOR FIELD LOCATIONS OF VARIOUS UTILITIES.

3. THE CONTRACTOR SHALL COORDINATE VARIOUS CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

4. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKER MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DISRUPTED BY THEIR OPERATIONS.

5. BARRICADES: ALL UNBALLASTED TYPE I AND TYPE II BARRICADES SHALL HAVE TWO (2) SANDBAGS ON THE BOTTOM RAIL. A TYPE III BARRICADE SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS.

6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS. ANY DAMAGE TO EXISTING PLANT MATERIAL DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND AT THEIR EXPENSE.

7. CONTRACTOR SHALL TAKE CARE TO PROTECT EXISTING SIDEWALK AND LANDSCAPING AT LOCATIONS NOT SHOWN IN THE PLANS TO BE REMOVED AND AS DIRECTED BY THE ENGINEER. SIDEWALK AND LANDSCAPING TO BE PROTECTED THAT IS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND AT THEIR EXPENSE.

8. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE VILLAGE OF BEECHER.

9. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS AT ALL TIMES TO ALL PRIVATE AND COMMERCIAL PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT.

10. THE VILLAGE OF BEECHER PUBLIC WORKS DEPARTMENT SHALL BE RESPONSIBLE FOR TURNING THE WATER MAIN VALVES ON AND OFF. THE CONTRACTOR IS NOT ALLOWED TO TURN THE VILLAGE OF BEECHER OWNED WATER MAIN VALVES ON AND OFF. THE CONTRACTOR SHALL CONTACT THE VILLAGE OF BEECHER FOR A WATER METER IF NECESSARY.

11. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES DURING AND AFTER REPLACEMENT OF COMBINATION CONCRETE CURB AND GUTTER. THE CONTRACTOR SHALL DETERMINE THE PROPOSED GRADE OF THE GUTTER LINE TO ENSURE POSITIVE DRAINAGE.

12. TEN FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE CONTRACT.

13. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PAVEMENT MARKINGS FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL.

14. SIDEWALK RAMPS ACCESSIBLE TO THE DISABLED SHALL BE PROVIDED AT ALL SIDEWALK, DRIVEWAY AND ALLEY LOCATIONS INDICATED ON THE PLANS, THERE WILL BY NO PAYMENT FOR DAMAGE TO EXISTING RAMPS, SIDEWALK, DRIVEWAY, OR ALLEY LOCATIONS. THIS WORK SHALL BE DONE ACCORDING TO STANDARD 424001-05.

15. BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.25 GAL/SQ YD BETWEEN THE BASE AND BINDER COURSES, AND 0.08 GAL/SQ YD BETWEEN THE BINDER AND SURFACE COURSES.

16. THE CONTRACTOR SHALL CLEAN THE CURB AND GUTTER PRIOR TO MARKING THE CURB AND GUTTER REMOVAL AND REPLACEMENT LIMITS. THIS WORK SHALL BE CONSIDERED TO BE INCIDENTAL TO THE ITEM OF CURB AND GUTTER REMOVAL AND REPLACEMENT.

17. EARTH EXCAVATION HAS BEEN PROVIDED IN THE PLANS, HOWEVER, USE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR SHALL ONLY BE COMPENSATED FOR THE QUANTITY OF EARTH EXCAVATION REQUIRED ON THE PROJECT.

18. LAYOUT AND STAKING FOR ALL CONSTRUCTION OPERATIONS SHALL BE PROVIDED BY THE CONTRACTOR.

19. THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT ARE SUBJECT TO PRIOR APPROVAL BY THE APPROPRIATE AGENCY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.

20. POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) HAS BEEN PROVIDED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT FOR POOR SOILS SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF UNSTABLE SOILS ARE ENCOUNTERED, THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, COMPENSATION SHALL NOT BE DUE THE CONTRACTOR.

21. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED USING TOP SOIL FURNISH AND PLACE, 4", AND SODDING, SALT TOLERANT.

22. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES ALONG THE PROJECT CORRIDOR, INCLUDING POWER POLES, TELEPHONE PEDESTALS, GAS VALVES AND ANY OTHER UTILITIES IDENTIFIED BY THE ENGINEER. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY AGENCY IF CONFLICTS ARE IDENTIFIED IN THE FIELD.

23. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT LOCATIONS INDICATED ON THE PLAN SHEETS AS POTENTIAL UTILITY CONFLICTS AND AS SUGGESTED BY THE ENGINEER TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES.

24. THE RESIDENT ENGINEER SHALL CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475 A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

25. BELOW ARE CONTACTS FOR VARIOUS UTILITIES ALONG THE PROJECT CORRIDOR:

COMPANY:	NICOR GAS COMPANY
CONTACT:	ROBERT GRAHAM
TELEPHONE:	(815) 221-4311
COMPANY:	COMCAST
CONTACT:	CHRIS BAKER
TELEPHONE:	(630) 288-7637
COMPANY:	COMMONWEALTH EDISON
CONTACT:	ILYAS MOHIUDDIN
TELEPHONE:	(708) 235-2692
COMPANY:	AT&T
CONTACT:	TODD ANDREWS
TELEPHONE:	(708) 396-7622

DISTRICT STANDARDS

BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BEHIND BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-22	ARTERIAL ROAD INFORMATION SIGNING
TS-02	DISTRICT ONE MAST ARM MOUNTED SHEET NAME SIGNS
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAIL (4 SHEETS)

HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS (8 SHEETS)
280001-05	TEMPORARY EROSION CONTROL SYSTEM (2 SHEETS)
424001-05	CURB RAMPS FOR SIDEWALKS (2 SHEETS)
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER (2 SHEETS)
606301-04	PC CONCRETE ISLANDS AND MEDIANS (2 SHEETS)
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-03	URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE (2 SHEETS)
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES (3 SHEETS)
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
720021-02	SIGN PANELS EXTRUDED ALUMINUM TYPE (2 SHEETS)
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS (2 SHEETS)
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES (2 SHEETS)
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-04	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-08	CONCRETE FOUNDATION DETAILS (2 SHEETS)
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTION LOOP INSTALLATIONS

INCIDENTAL ITEMS

FILE NAME = s:\pl\6900--6999\6934\003\micros\sheets\gennotes.dgn

STRAND ASSOCIATES, INC. ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = kindras	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
PLOT DATE = 10/16/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, HIGHWAY STANDARDS, AND DISTRICT DETAILS
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	2
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

X	•	CODE NUMBER	PAY ITEM	UNIT	TOTAL	ROADWAY 1000-2A	QUANTITY		
							TRAFFIC SIGNAL Y031-1F		INTERCONNECT Y031-1F
							CHESTNUT LANE	CHURCH ROAD	
		20200100	EARTH EXCAVATION	CU YD	120	120			
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	40	40			
	•	20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	40	40			
		28000510	INLET FILTERS	EACH	4	4			
		31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	200	200			
		35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	40	40			
	•	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	10	10			
	•	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	16	16			
	•	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	8	8			
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	526		526		
		42400800	DETECTABLE WARNINGS	SQ FT	48		48		
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	120		120		
		44000600	SIDEWALK REMOVAL	SQ FT	140		140		
	•	44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	97		97		
		44003100	MEDIAN REMOVAL	SQ FT	50	50			
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	48		48		
		67100100	MOBILIZATION	LUMP SUM	1	1.0			
	•	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1			
	•	70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1			
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
		70300200	TEMPORARY PAVEMENT MARKING	FOOT	1,000	1,000			
X	•	72000100	SIGN PANEL - TYPE 1	SQ FT	18		18		
		72000200	SIGN PANEL - TYPE 2	SQ FT	25		25		
X		72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2			
X		72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	23	23			
X	•	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	178	178			
X	•	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,950	4,950			
X	•	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,150	1,150			
X	•	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	310	310			
X	•	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	105	105			
X		78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	107	107			
X		78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,400	1,400			
X		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	55	55			
		81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	1,672		871		801
		81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	50		50		
		81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	24		24		
		81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	8		8		
		81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	608		42		566
		81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	59		59		
		81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	324		324		

X INDICATES SPECIALTY ITEMS

☐ INDICATES SPECIAL PROVISION

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STRAND ASSOCIATES, INC ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = adamm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
PLOT DATE = 10/27/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	3
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

X	•	CODE NUMBER	PAY ITEM	UNIT	TOTAL	ROADWAY I000-2A	QUANTITY TRAFFIC SIGNAL Y031-1F		INTERCONNECT Y031-1F
	•	81400100	HANDHOLE	EACH	6		4		2
	•	81400200	HEAVY-DUTY HANDHOLE	EACH	3		3		
	•	81400300	DOUBLE HANDHOLE	EACH	2		2		
	•	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1,754		953		801
	•	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1			1	
	•	85700305	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1		1		
	•	86000105	MASTER CONTROLLER (SPECIAL)	EACH	1				1
		86400100	TRANSCEIVER - FIBER OPTIC	EACH	2		1	1	
	•	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	670		670		
	•	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,241		1,241		
	•	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,243		1,243		
	•	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	926		926		
	•	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,660		1,660		
	•	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	215		215		
	•	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1		1		
		87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1		1		
		87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1		
		87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1		1		
		87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1		
	•	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4		4		
		87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4		
	•	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60		60		
		87900200	DRILL EXISTING HANDHOLE	EACH	1				1
	•	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5		5		
	•	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1		
	•	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3		3		
	•	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3		3		
	•	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2		
	•	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3		3		
	•	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8		
	•	88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8		
	•	88600100	DETECTOR LOOP, TYPE I	FOOT	795		795		
	•	88800100	PEDESTRIAN PUSH-BUTTON	EACH	5		5		
	•	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51	51			
	•	X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,735				1,735
	•	X0324007	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1				1
	•	X8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1		1		
	•	X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1		1		
	•	X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1,735				1,735
	•	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	760		760		
	•	44004600	SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	170		170		
	•	Z0013798	CONSTRUCTION LAYOUT	LUMP SUM	1	1			
		XX005431	LOCATE UNDERGROUND UTILITY	EACH	5	5			

X INDICATES SPECIALTY ITEMS

[*] INDICATES SPECIAL PROVISION

FILE NAME = S:\JOL\6900-6999\6934\003\Micros\sheets\Summary2.dgn

STRAND ASSOCIATES, INC. ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = adamm	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

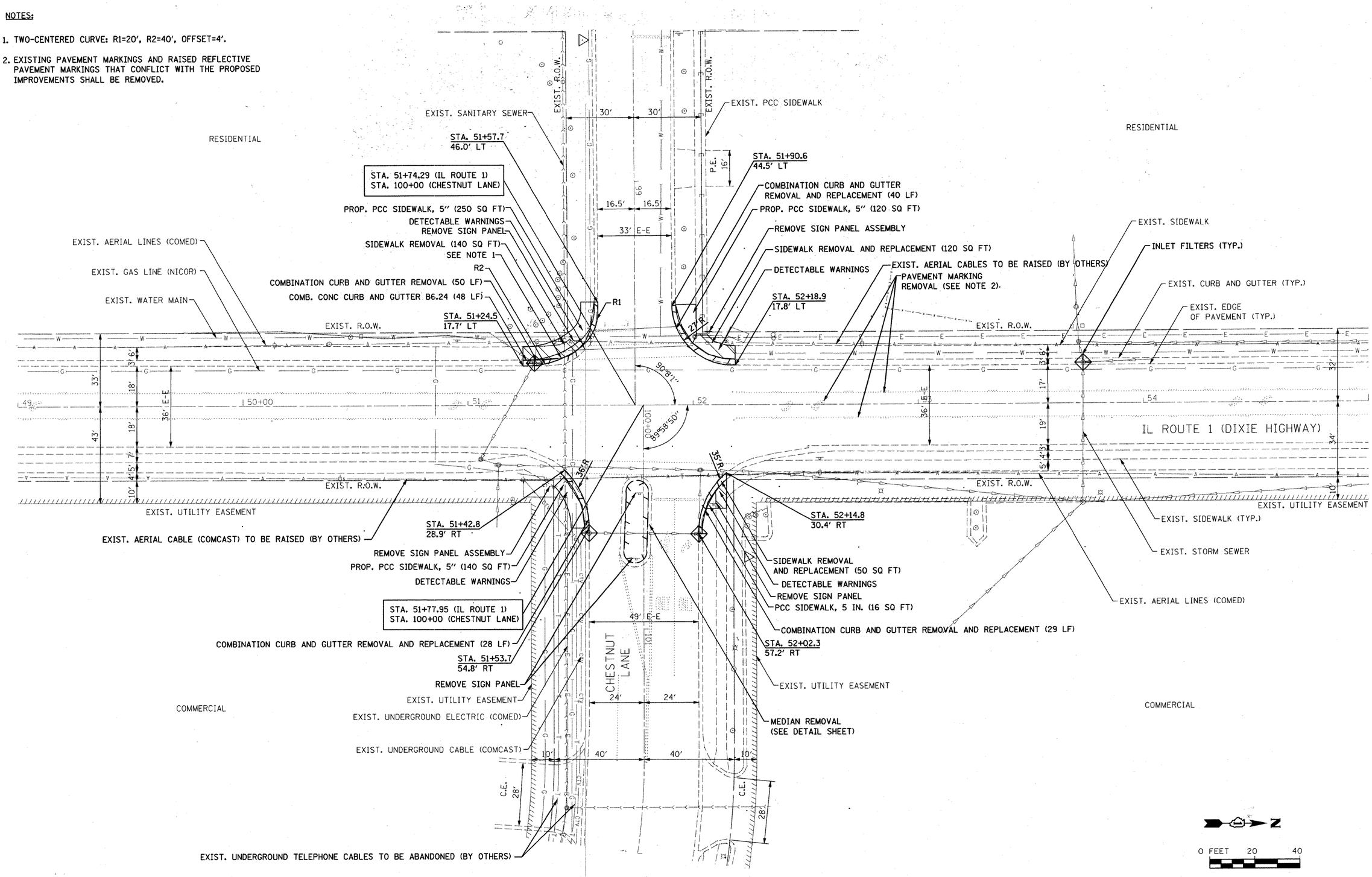
SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	4
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES:

1. TWO-CENTERED CURVE: R1=20', R2=40', OFFSET=4'.
2. EXISTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED.



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STRAND ASSOCIATES, INC. ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	5
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

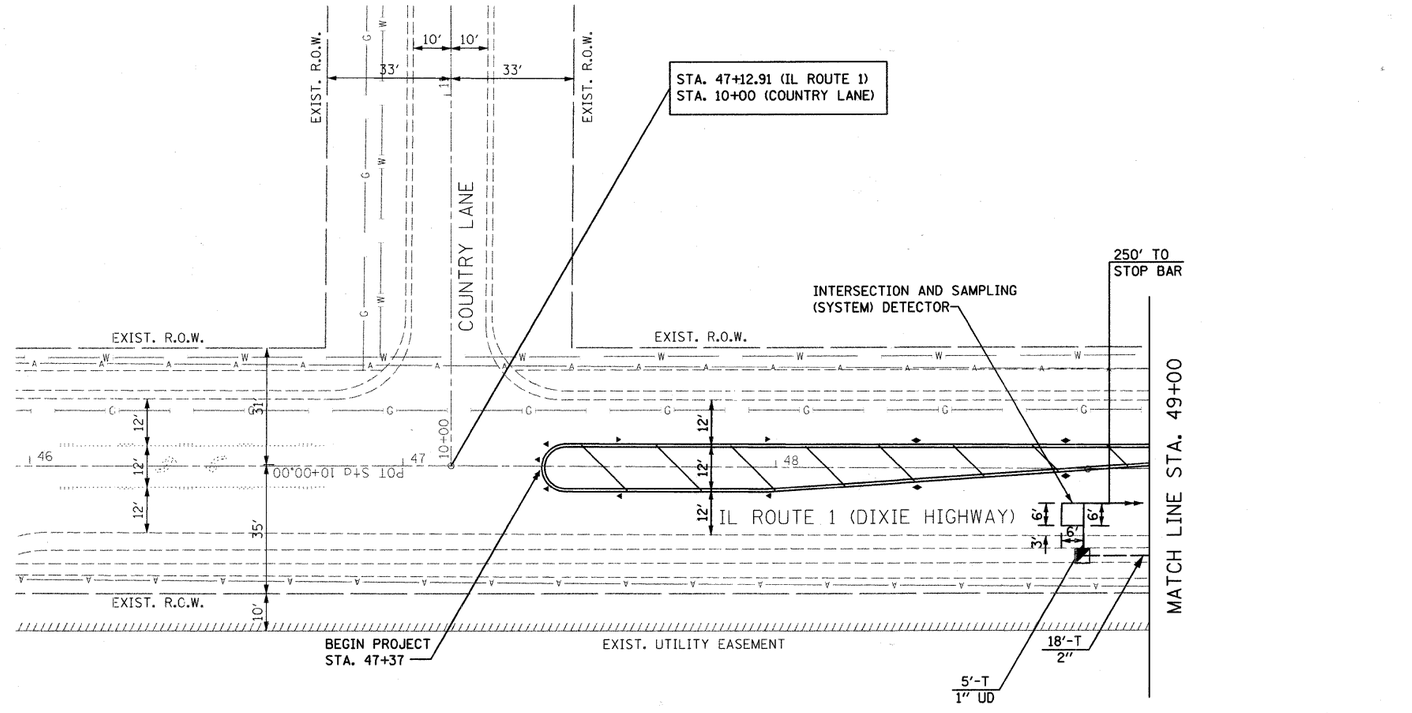
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
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	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		"E"
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED	"P"	"P"
CONDUIT SPLICE		
WOOD POLE		"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		"E" "E"
TELEPHONE CONNECTION	T	T
ILLUMINATED SIGN "NO LEFT TURN"		"E"
ILLUMINATED SIGN "NO RIGHT TURN"		"E"
UNINTERRUPTIBLE POWER SUPPLY	UPS	

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 UNMOVED FIELDS SHALL BE SEEDED, IN ACCORDANCE WITH STANDARD SPECIFICATIONS 250 AND 252 RESPECTIVELY.

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



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STRAND ASSOCIATES, INC. ENGINEERS — 1170 SOUTH HOUBOLT ROAD, JOLIET, ILLINOIS 60431, (815) 744-4200	USER NAME = kindras	DESIGNED -	REVISED -
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	PLOT DATE = 10/16/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	6
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
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	UD	
HANDHOLE	◪	▨
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE	◪◪	▨▨

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NOTE:
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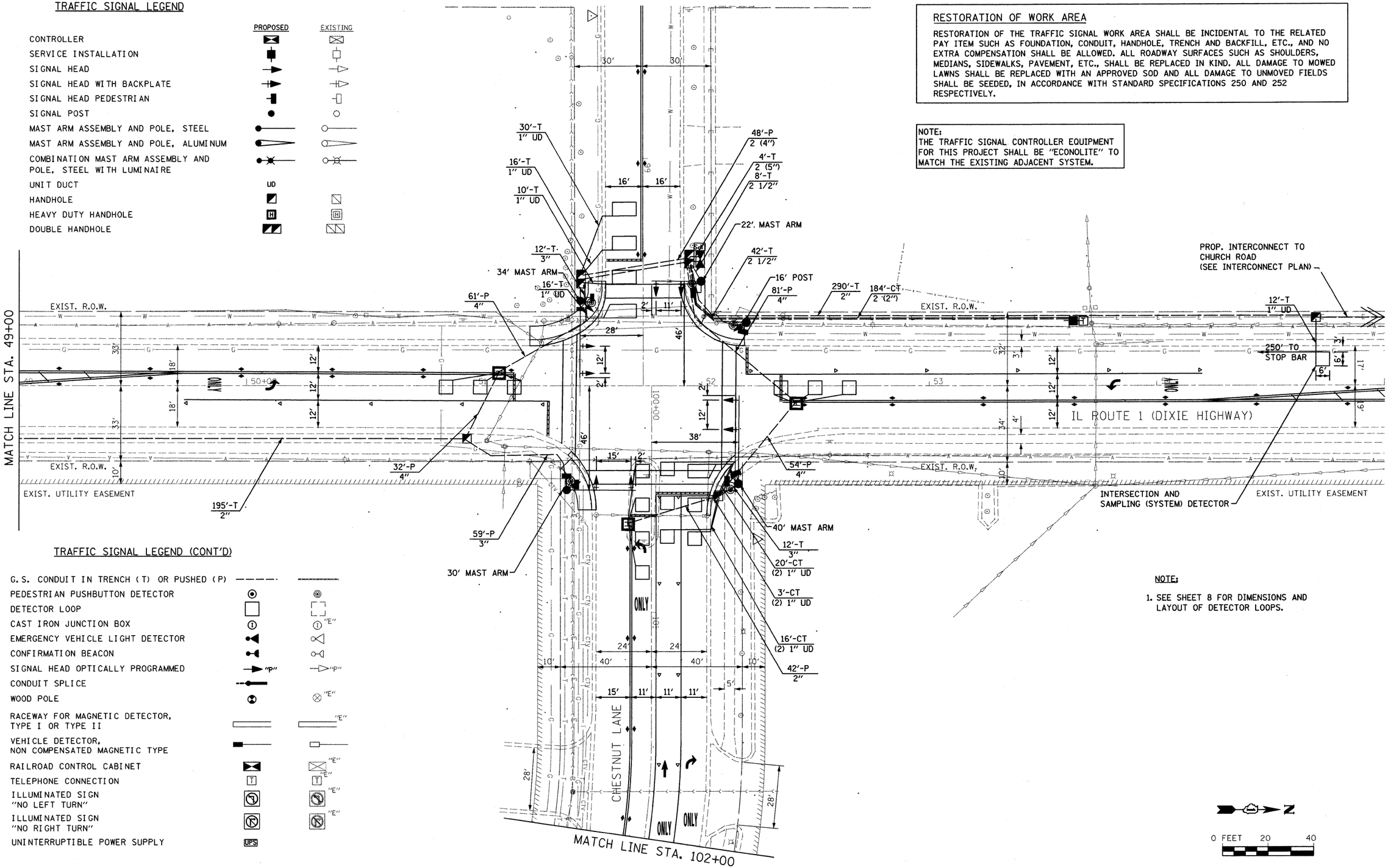

NOTE:

1. SEE SHEET 8 FOR DIMENSIONS AND LAYOUT OF DETECTOR LOOPS.

TRAFFIC SIGNAL LEGEND (CONT'D)

G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	———
PEDESTRIAN PUSHBUTTON DETECTOR	⊙
DETECTOR LOOP	□
CAST IRON JUNCTION BOX	Ⓘ "E"
EMERGENCY VEHICLE LIGHT DETECTOR	●◀
CONFIRMATION BEACON	●◁
SIGNAL HEAD OPTICALLY PROGRAMMED	→ "P"
CONDUIT SPLICE	●—
WOOD POLE	⊗ "E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	▭ "E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	■▭
RAILROAD CONTROL CABINET	⊠ "E"
TELEPHONE CONNECTION	T "E"
ILLUMINATED SIGN "NO LEFT TURN"	◪ "E"
ILLUMINATED SIGN "NO RIGHT TURN"	◪ "E"
UNINTERRUPTIBLE POWER SUPPLY	UPS

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(815) 744-4200

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	7

CONTRACT NO. 83909

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

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
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	UD	
COMMON TRENCH	CT	
HANDHOLE	◪	▨
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE	◪◪	▨▨

RESTORATION OF WORK AREA

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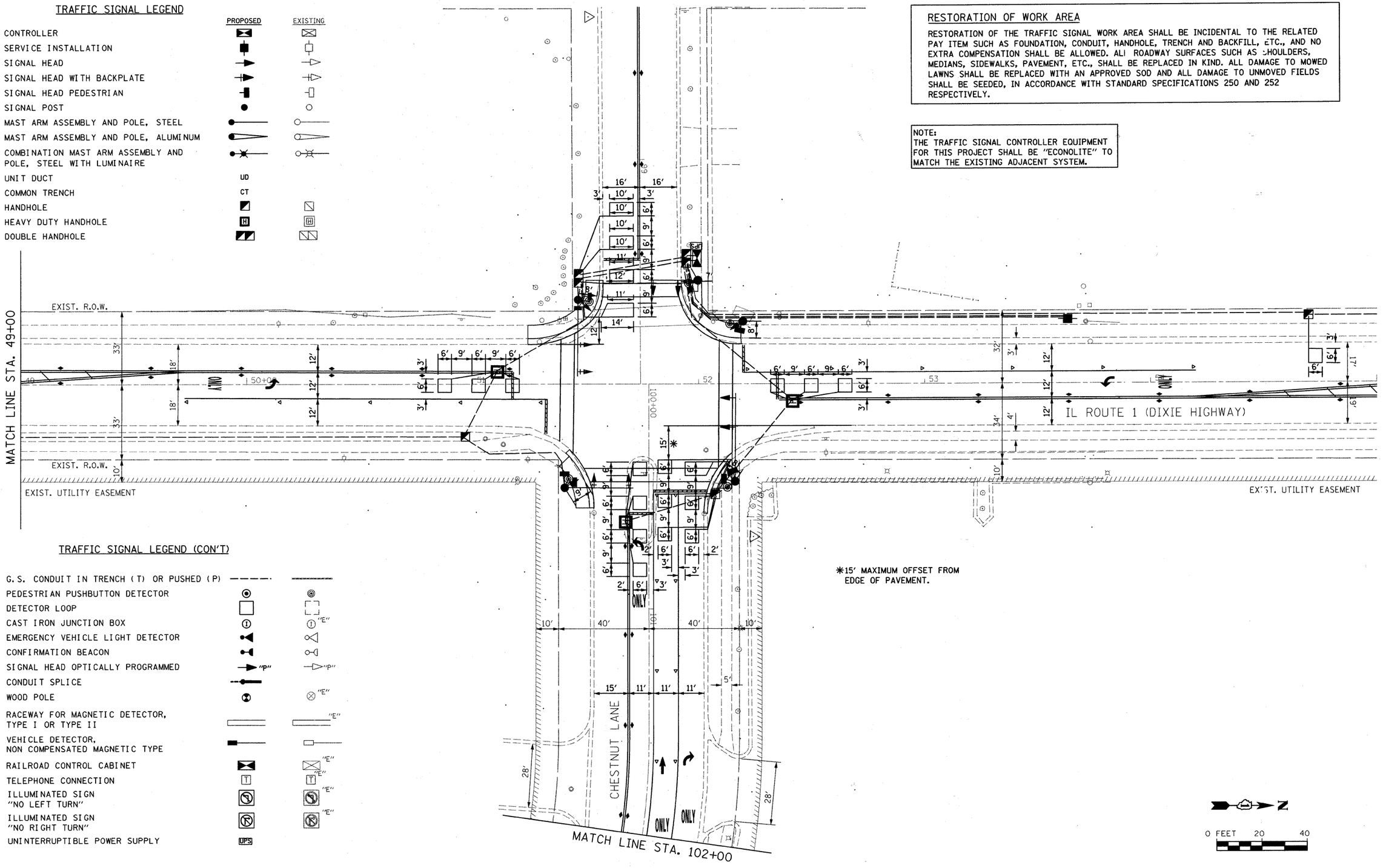

TRAFFIC SIGNAL LEGEND (CON'T)

G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	———
PEDESTRIAN PUSHBUTTON DETECTOR	⊙
DETECTOR LOOP	□
CAST IRON JUNCTION BOX	Ⓘ "E"
EMERGENCY VEHICLE LIGHT DETECTOR	◀
CONFIRMATION BEACON	◀
SIGNAL HEAD OPTICALLY PROGRAMMED	→ "P"
CONDUIT SPLICE	—●
WOOD POLE	⊗ "E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	"E"
RAILROAD CONTROL CABINET	"E"
TELEPHONE CONNECTION	T "E"
ILLUMINATED SIGN "NO LEFT TURN"	"E"
ILLUMINATED SIGN "NO RIGHT TURN"	"E"
UNINTERRUPTIBLE POWER SUPPLY	UPS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

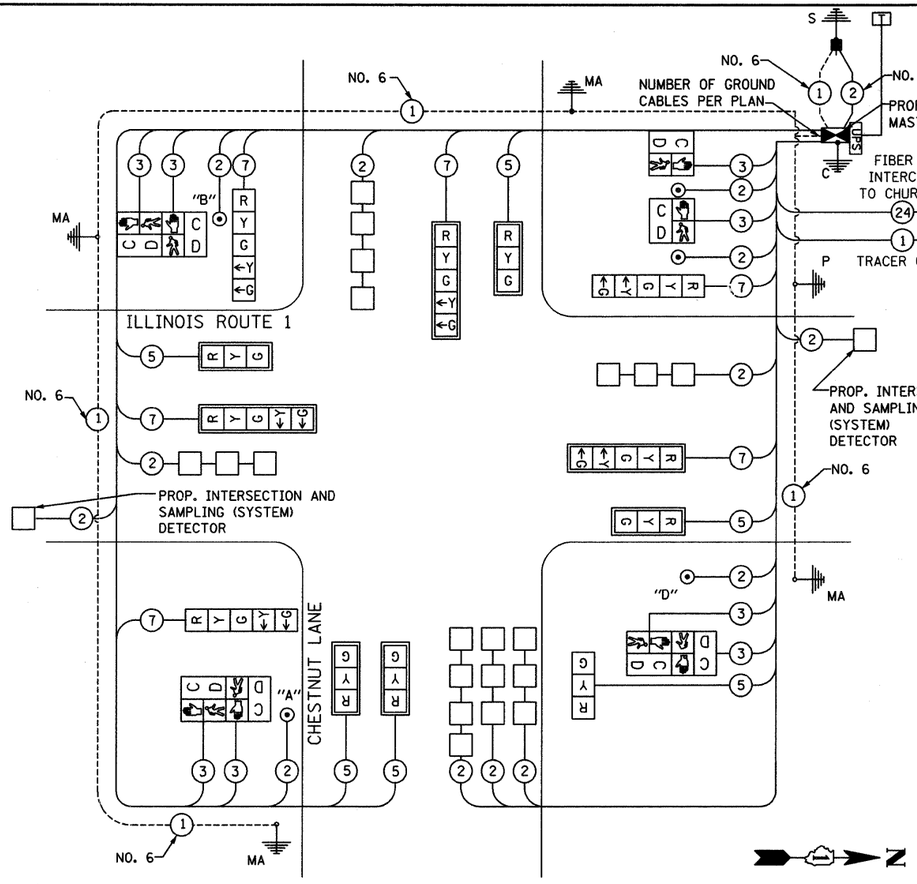
PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN
DETECTOR LOOP LAYOUT
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	8
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	526
DETECTABLE WARNINGS	SQ FT	48
COMBINATION CURB AND GUTTER REMOVAL	FOOT	120
SIDEWALK REMOVAL	SQ FT	140
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	97
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	48
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	0.25
SIGN PANEL - TYPE 1	SQ FT	18
SIGN PANEL - TYPE 2	SQ FT	25
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	871
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	50
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	24
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	8
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	42
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	59
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	324
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	953
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	670
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,241
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,243
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	926
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,660
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	215
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
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	8
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	795
PEDESTRIAN PUSH-BUTTON	EACH	5
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	760
SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	170

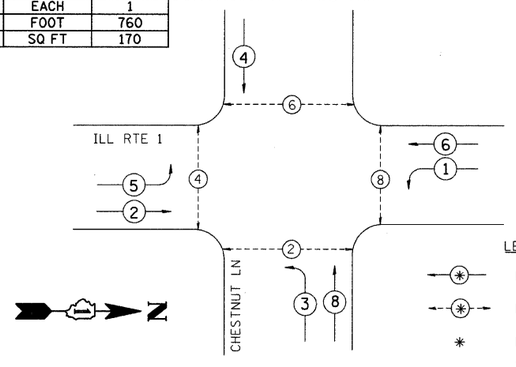


THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

CABLE PLAN LEGEND

EXISTING	PROPOSED	
	G	8" (200mm) TRAFFIC SIGNAL SECTION
	R	12" (300mm) TRAFFIC SIGNAL SECTION
	W	12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
(2)	(2)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(1)	(1)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
"P"	"P"	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
"E"		RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN, "NO LEFT TURN"
"E"		ILLUMINATED SIGN, "NO RIGHT TURN"
H/C	C	GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
	UPS	UNINTERRUPTIBLE POWER SUPPLY

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	12		12	0.10	14.4
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0
FLASHER	1			0.50	0
ENERGY COSTS TO:				TOTAL =	536.4

VILLAGE OF BEECHER
724 PENFIELD DRIVE, P.O. BOX 1154
BEECHER, ILLINOIS 60401

ENERGY SUPPLY CONTACT: TONY ESCALANTE
PHONE: 708-878-9908
COMPANY: COMMONWEALTH EDISON

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)
C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)
24" (600 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900 mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

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

PUSH-BUTTON NOTES
PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH-BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH-BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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STRAND ASSOCIATES, INC. ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	9
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
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	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		"E"
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED	"P"	"P"
CONDUIT SPLICE		
WOOD POLE		"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		"E"
TELEPHONE CONNECTION	T	"E"
ILLUMINATED SIGN "NO LEFT TURN"		"E"
ILLUMINATED SIGN "NO RIGHT TURN"		"E"
UNINTERRUPTIBLE POWER SUPPLY	UPS	

RESTORATION OF WORK AREA

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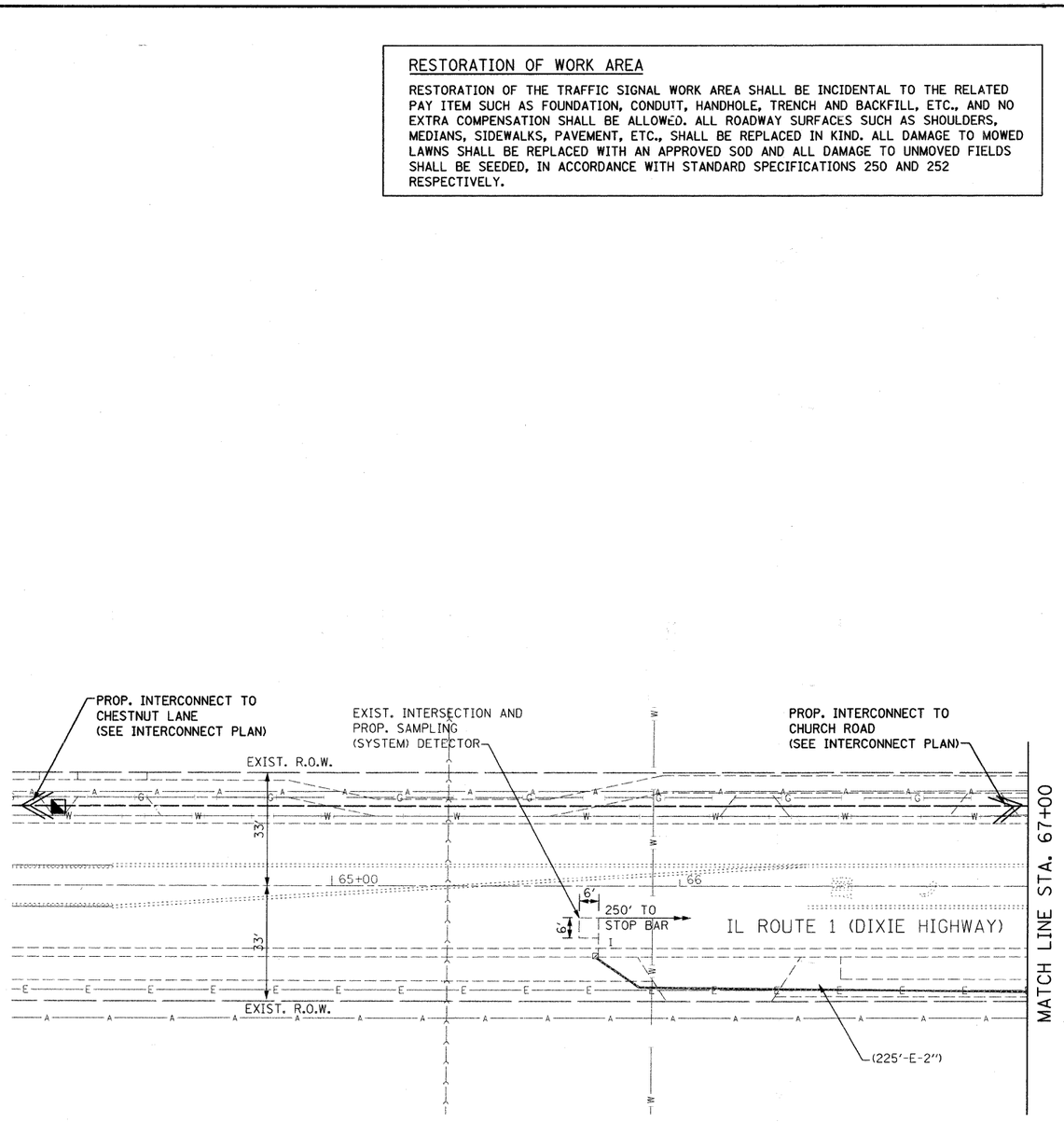

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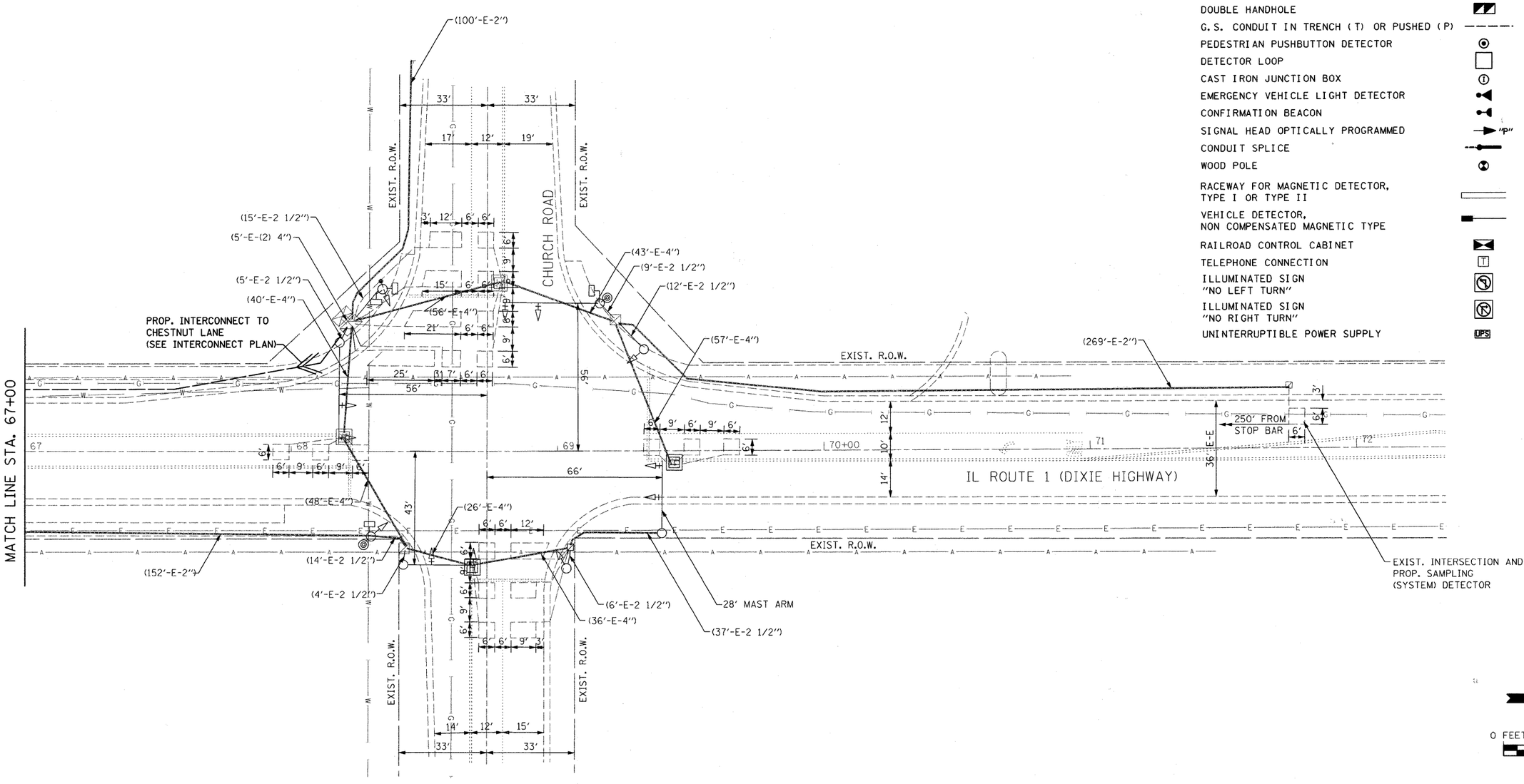
STRAND ASSOCIATES, INC. ENGINEERS — 1170 SOUTH HOUBOLT ROAD, JOLIET, ILLINOIS 60431, (815) 744-4200	USER NAME = kindras	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN IL ROUTE 1 (DIXIE HIGHWAY) AND CHURCH ROAD
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -		SCALE: AS SHOWN | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = 10/16/2009	DATE -	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	10
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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 UNMOVED FIELDS SHALL BE SEEDED, IN ACCORDANCE WITH STANDARD SPECIFICATIONS 250 AND 252 RESPECTIVELY.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
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	UD	
COMMON TRENCH	CT	
HANDHOLE	◪	◪
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE	◪◪	◪◪
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	———	———
PEDESTRIAN PUSHBUTTON DETECTOR	⊙	⊙
DETECTOR LOOP	□	[ ]
CAST IRON JUNCTION BOX	ⓘ	ⓘ "E"
EMERGENCY VEHICLE LIGHT DETECTOR	◀	◁
CONFIRMATION BEACON	◀	◁
SIGNAL HEAD OPTICALLY PROGRAMMED	→ "P"	→ "P"
CONDUIT SPLICE		
WOOD POLE	⊗	⊗ "E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET	■	"E"
TELEPHONE CONNECTION	T	T "E"
ILLUMINATED SIGN "NO LEFT TURN"		"E"
ILLUMINATED SIGN "NO RIGHT TURN"		"E"
UNINTERRUPTIBLE POWER SUPPLY	UPS	

0 FEET 20 40

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STRAND ASSOCIATES, INC. ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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PLOT DATE = 10/16/2009	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

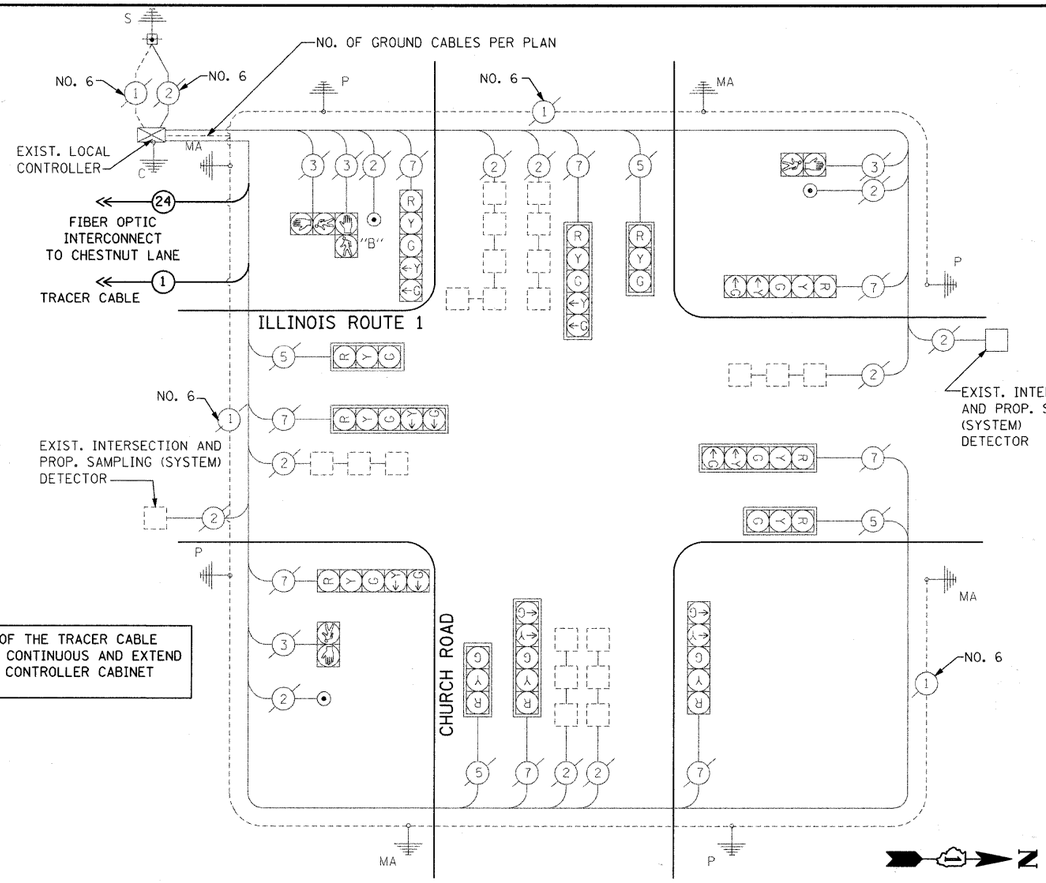
PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN
IL ROUTE 1 (DIXIE HIGHWAY) AND CHURCH ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	11
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

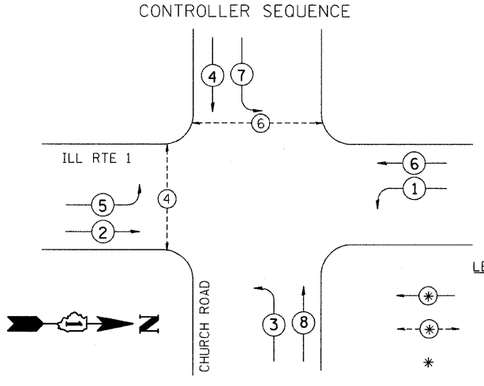
PAY ITEM	UNIT	QUANTITY
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	0.25
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1



CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
R Y G ←Y ←G	R Y G ←Y ←G	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
"E"		RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN, "NO LEFT TURN"
"E"		ILLUMINATED SIGN, "NO RIGHT TURN"
H/C	C	GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	12	135		0.50	810
(YELLOW)	12	135		0.25	405
(GREEN)	12	135		0.25	405
ARROW	12	135		0.10	162
PED. SIGNAL	4	90		1.00	360
CONTROLLER	1	100		1.00	100
ILLUM. SIGN		252		0.05	0
FLASHER	1			0.50	0
ENERGY COSTS TO:				TOTAL =	2,242

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

ENERGY SUPPLY CONTACT: CHIP KREGEL
PHONE: 708-253-2238
COMPANY: COMMONWEALTH EDISON

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'+L-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)
24" (600 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900 mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

PUSH-BUTTON NOTES
PUSH-BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

STRAND ASSOCIATES, INC. ENGINEERS
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(815) 744-4200

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PLOT DATE = 10/27/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
IL ROUTE 1 (DIXIE HIGHWAY) AND CHURCH ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	12
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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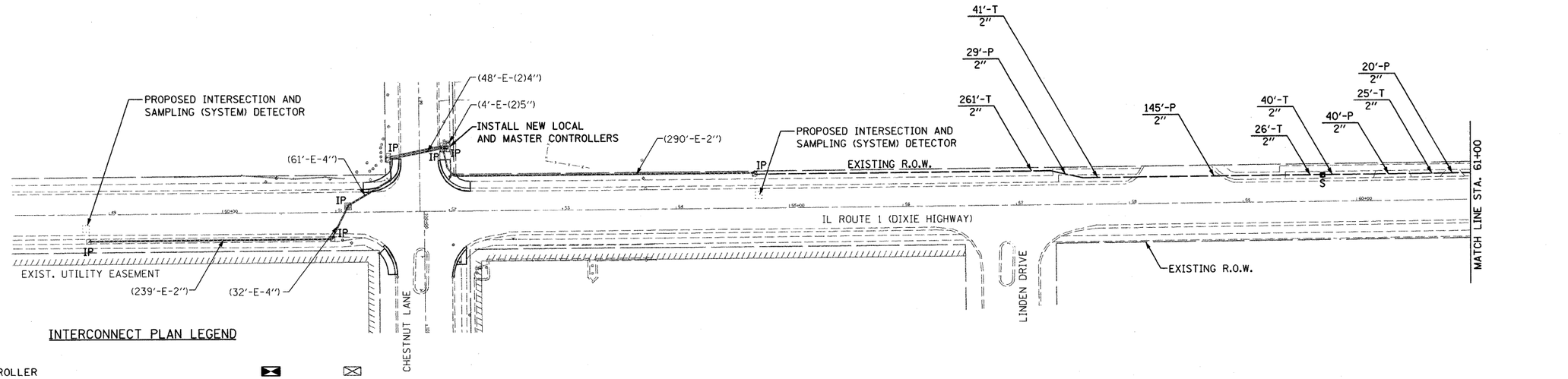
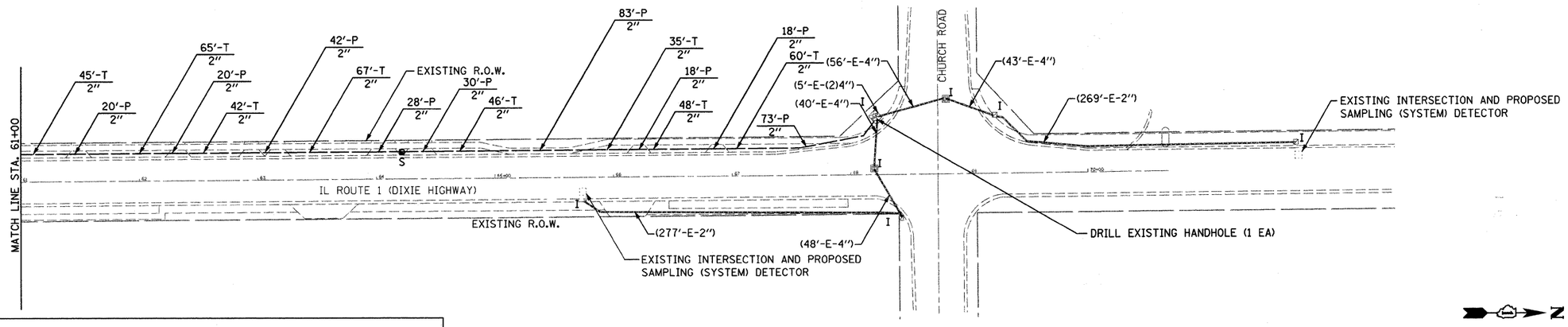


INTERCONNECT PLAN LEGEND

CONTROLLER	⧓	⧓
HANDHOLE	◪	◪
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE	◪◪	◪◪
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	————	————
DETECTOR LOOP	□	[ ]
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I



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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 UNMOVED FIELDS SHALL BE SEEDED, IN ACCORDANCE WITH STANDARD SPECIFICATIONS 250 AND 252 RESPECTIVELY.

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

1170 SOUTH HOUBOLT ROAD
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(815) 744-4200

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	PLOT DATE = 10/16/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

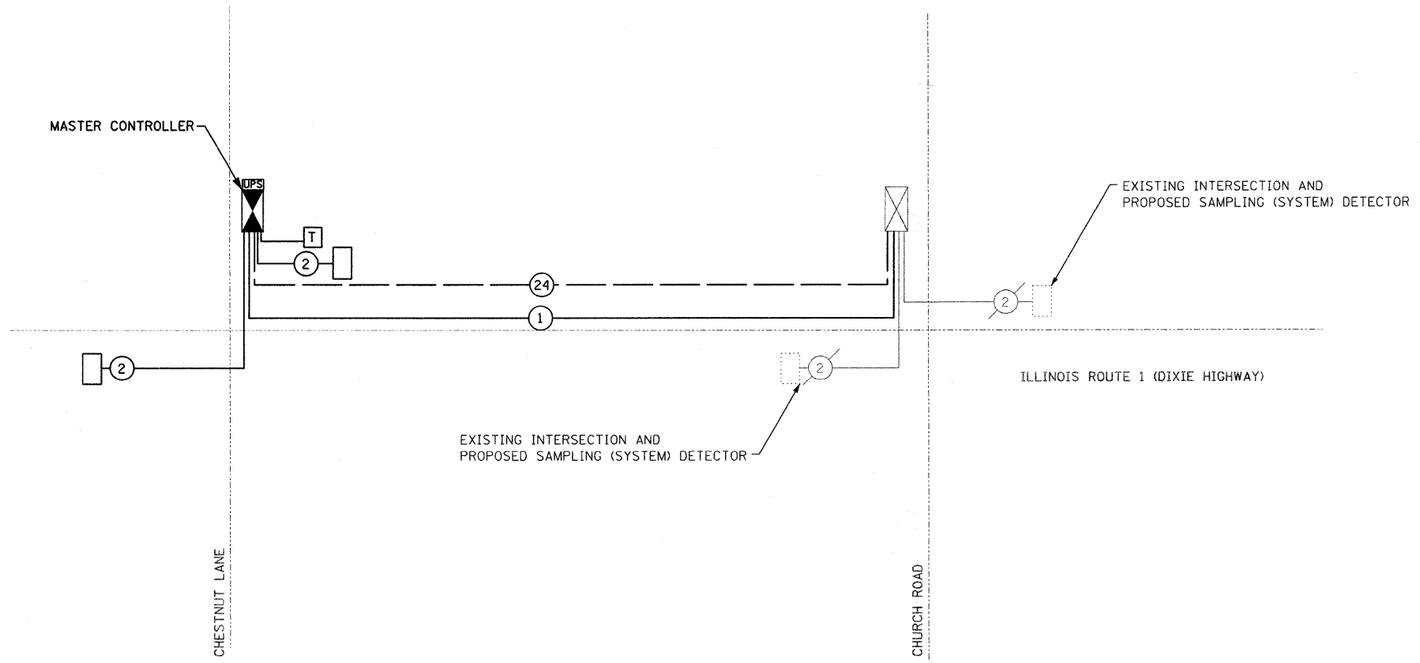
PROPOSED INTERCONNECT PLAN
IL ROUTE 1 (DIXIE HIGHWAY) CHESTNUT LANE TO CHURCH ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	13
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

INTERCONNECT SCHEMATIC LEGEND

- EXISTING INTERSECTION CONTROLLER
- PROPOSED INTERSECTION CONTROLLER
- EXISTING MASTER CONTROLLER — EMC
- PROPOSED MASTER CONTROLLER — MC
- MASTER MASTER CONTROLLER — MMC
- EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- EXISTING INTERSECTION LOOP DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS — P
- EXISTING SAMPLING (SYSTEM) DETECTORS — ES
- PROPOSED SAMPLING (SYSTEM) DETECTORS — PS
- EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS — ESP
- EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS — ESPS
- EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS — PD
- PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS — PD
- EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS — ESPD
- PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS — PSPD
- EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM1 2F SM1 2F — 24
- PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM1 2F SM1 2F — 24
- EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE — 12
- PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE — 12
- EXISTING INTERCONECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED — 6
- PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED — 6
- EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED — 2
- PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED — 2
- EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED) — 1
- PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED) — 1
- EXISTING TELEPHONE CONNECTION — T
- PROPOSED TELEPHONE CONNECTION — T
- UNINTERRUPTIBLE POWER SUPPLY — UPS



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	0.25
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	801
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	566
HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	801
MASTER CONTROLLER (SPECIAL)	EACH	1
DRILL EXISTING HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1735
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1735

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

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STRAND ASSOCIATES, INC. ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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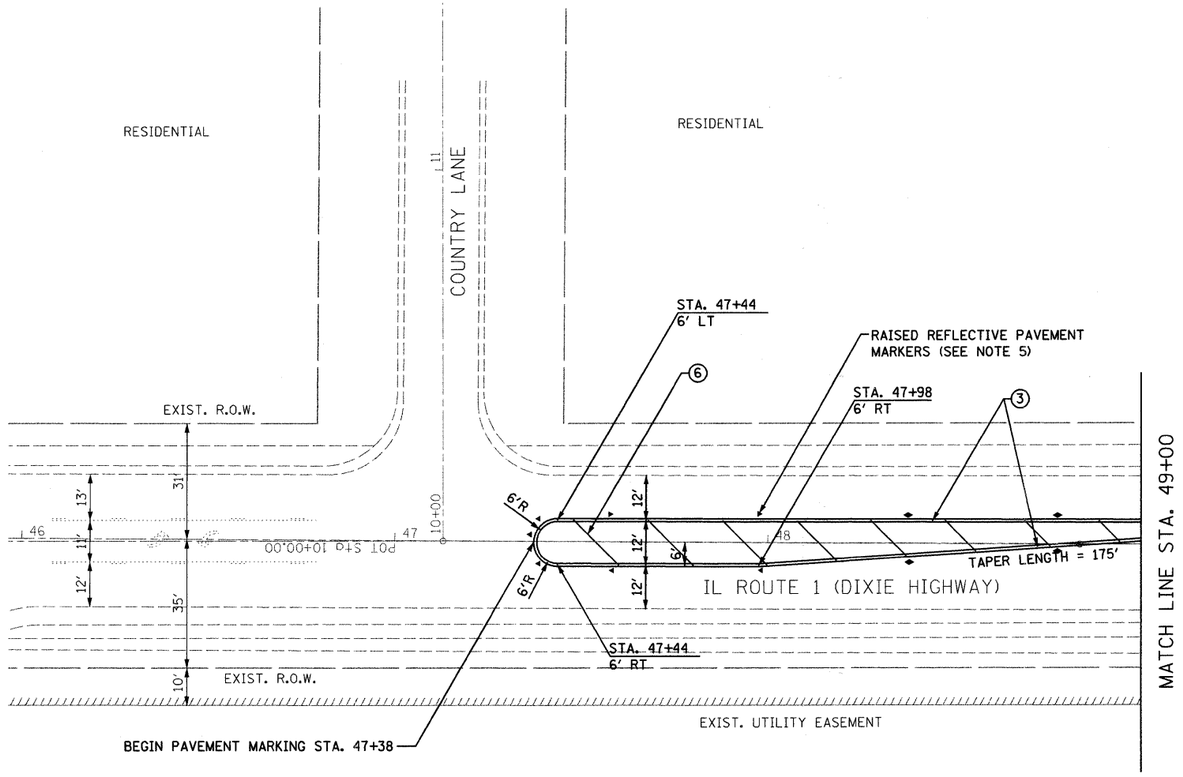
PLOT DATE = 10/27/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
IL ROUTE 1 (DIXIE HIGHWAY)
FROM CHESTNUT LANE TO CHURCH ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	14
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKING LEGEND

ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, PER THE LATEST EDITION ON THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

(1) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE LARGE SIZE, 8')

(2) THERMOPLASTIC PAVEMENT MARKING - LINE 6-IN (SOLID WHITE)

(3) THERMOPLASTIC PAVEMENT MARKING - LINE 4-IN (2 SOLID YELLOW SPACED 11-IN C-C)

(4) THERMOPLASTIC PAVEMENT MARKING - LINE 6-IN (DOTTED WHITE, 2' STRIPE, 6' GAP)

(5) THERMOPLASTIC PAVEMENT MARKING - LINE 24-IN (SOLID WHITE)

(6) THERMOPLASTIC PAVEMENT MARKING - LINE 12-IN (SOLID YELLOW AT 45°, 20' SPACE)

NOTES:

1. PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL UNLESS OTHERWISE NOTED.
2. STOP BARS SHALL BE LOCATED FOUR FEET IN ADVANCE OF CROSSWALK UNLESS OTHERWISE NOTED.
3. PROPOSED CROSSWALK STRIPING SHALL BE CENTERED ON THE CURB DEPRESSIONS AT CORNERS, A MINIMUM OF SIX FEET APART, OR AS DIRECTED BY THE ENGINEER.
4. PAVEMENT MARKINGS AT SIDE STREETS SHALL MATCH EXISTING AT PROJECT LIMITS.
5. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO THE IDOT DISTRICT ONE TYPICAL APPLICATIONS REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT).

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1170 SOUTH HOUBOLT ROAD
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	15
		CONTRACT NO. 33909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING LEGEND

ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, PER THE LATEST EDITION ON THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE LARGE SIZE, 8')

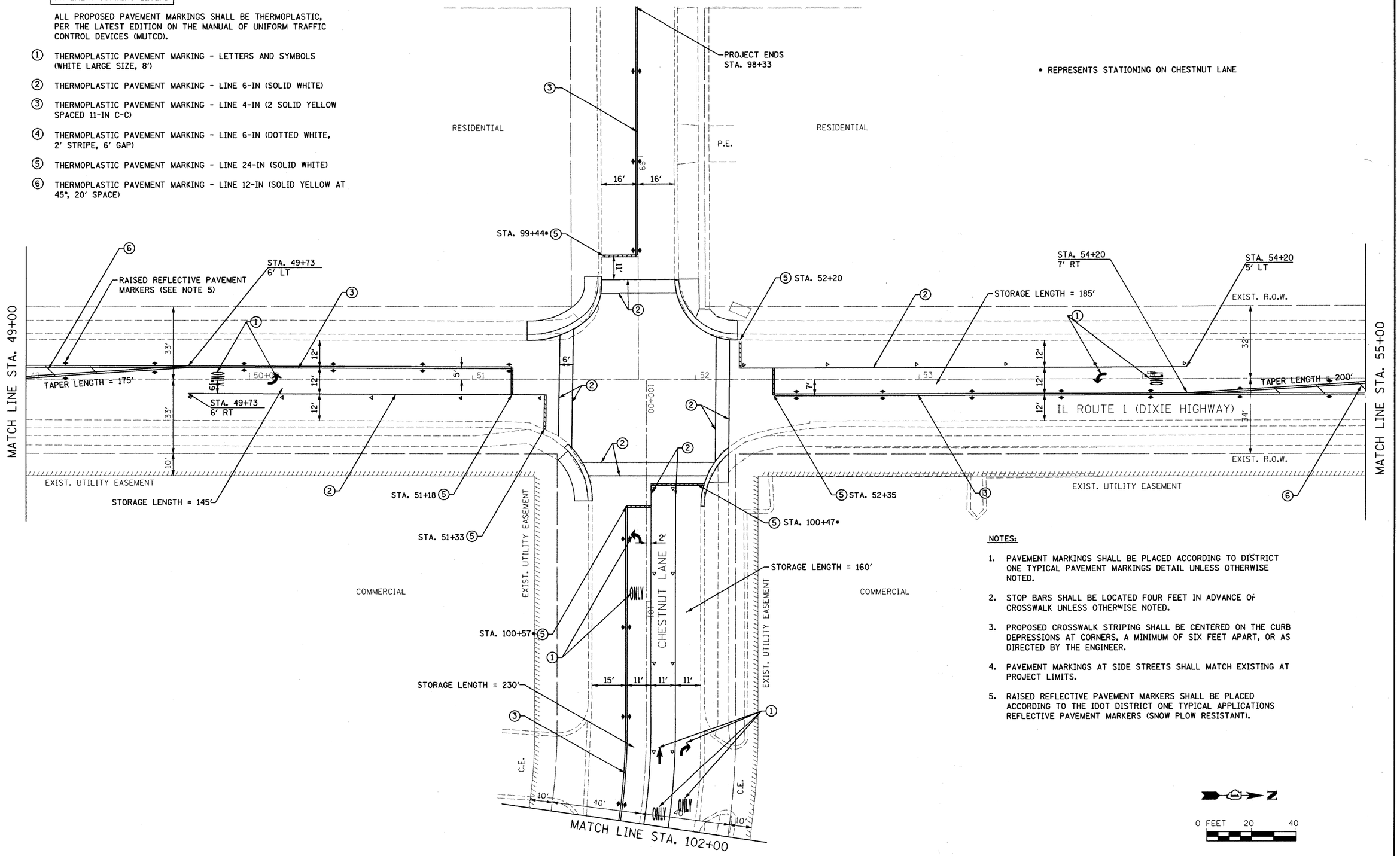
② THERMOPLASTIC PAVEMENT MARKING - LINE 6-IN (SOLID WHITE)

③ THERMOPLASTIC PAVEMENT MARKING - LINE 4-IN (2 SOLID YELLOW SPACED 11-IN C-C)

④ THERMOPLASTIC PAVEMENT MARKING - LINE 6-IN (DOTTED WHITE, 2' STRIPE, 6' GAP)

⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24-IN (SOLID WHITE)

⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12-IN (SOLID YELLOW AT 45°, 20' SPACE)



NOTES:

1. PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL UNLESS OTHERWISE NOTED.
2. STOP BARS SHALL BE LOCATED FOUR FEET IN ADVANCE OF CROSSWALK UNLESS OTHERWISE NOTED.
3. PROPOSED CROSSWALK STRIPING SHALL BE CENTERED ON THE CURB DEPRESSIONS AT CORNERS, A MINIMUM OF SIX FEET APART, OR AS DIRECTED BY THE ENGINEER.
4. PAVEMENT MARKINGS AT SIDE STREETS SHALL MATCH EXISTING AT PROJECT LIMITS.
5. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO THE IDOT DISTRICT ONE TYPICAL APPLICATIONS REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT).

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -	
PLOT DATE = 10/16/2009	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	16
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING LEGEND

ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, PER THE LATEST EDITION ON THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE LARGE SIZE, 8')

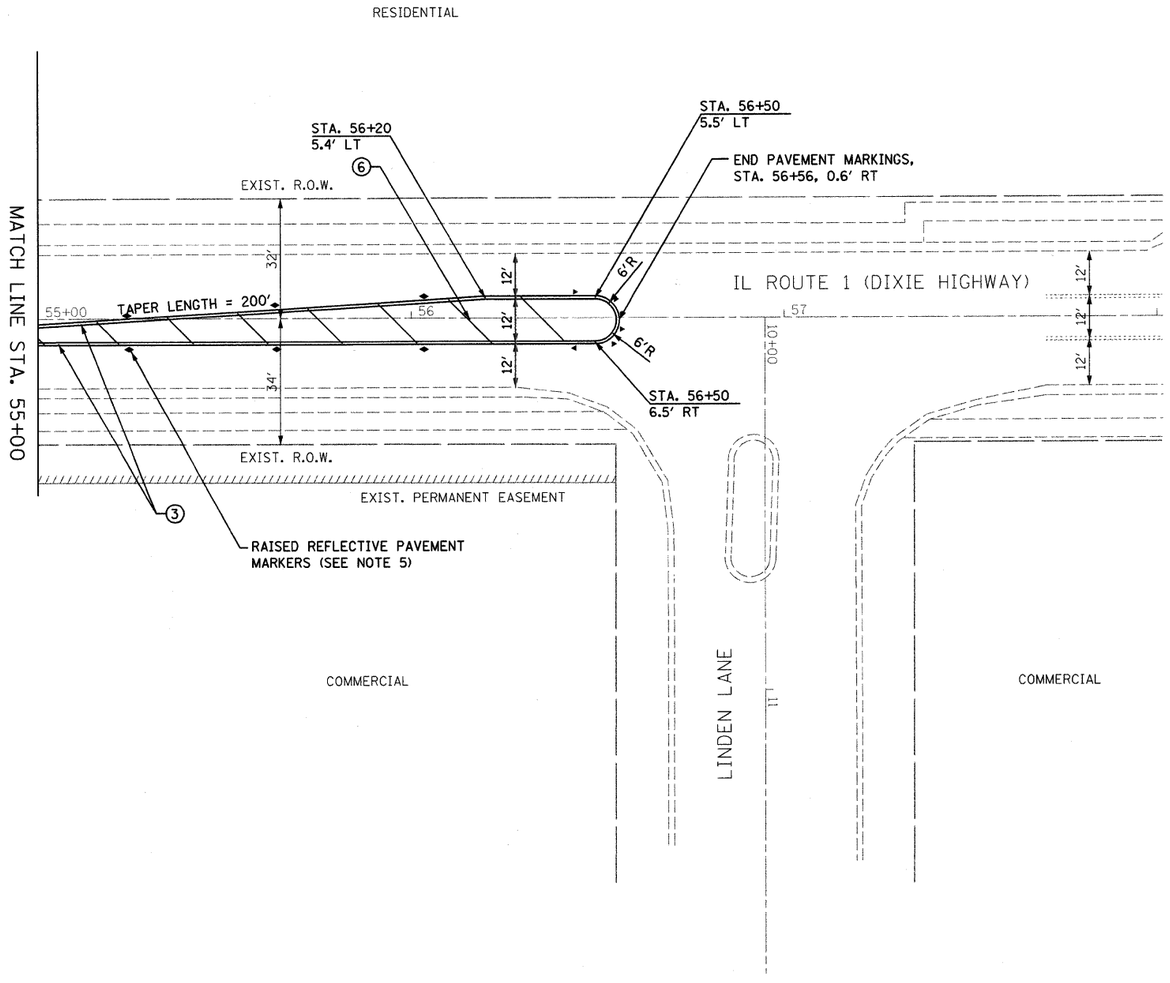
② THERMOPLASTIC PAVEMENT MARKING - LINE 6-IN (SOLID WHITE)

③ THERMOPLASTIC PAVEMENT MARKING - LINE 4-IN (2 SOLID YELLOW SPACED 11-IN C-C)

④ THERMOPLASTIC PAVEMENT MARKING - LINE 6-IN (DOTTED WHITE, 2' STRIPE, 6' GAP)

⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24-IN (SOLID WHITE)

⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12-IN (SOLID YELLOW AT 45°, 20' SPACE)



NOTES:

1. PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL UNLESS OTHERWISE NOTED.
2. STOP BARS SHALL BE LOCATED FOUR FEET IN ADVANCE OF CROSSWALK UNLESS OTHERWISE NOTED.
3. PROPOSED CROSSWALK STRIPING SHALL BE CENTERED ON THE CURB DEPRESSIONS AT CORNERS, A MINIMUM OF SIX FEET APART, OR AS DIRECTED BY THE ENGINEER.
4. PAVEMENT MARKINGS AT SIDE STREETS SHALL MATCH EXISTING AT PROJECT LIMITS.
5. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO THE IDOT DISTRICT ONE TYPICAL APPLICATIONS REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT).

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STRAND ASSOCIATES, INC. ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = kindras	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
PLOT DATE = 10/16/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	17
		CONTRACT NO. 81909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING LEGEND

ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, PER THE LATEST EDITION ON THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE LARGE SIZE, 8')

② THERMOPLASTIC PAVEMENT MARKING - LINE 6-IN (SOLID WHITE)

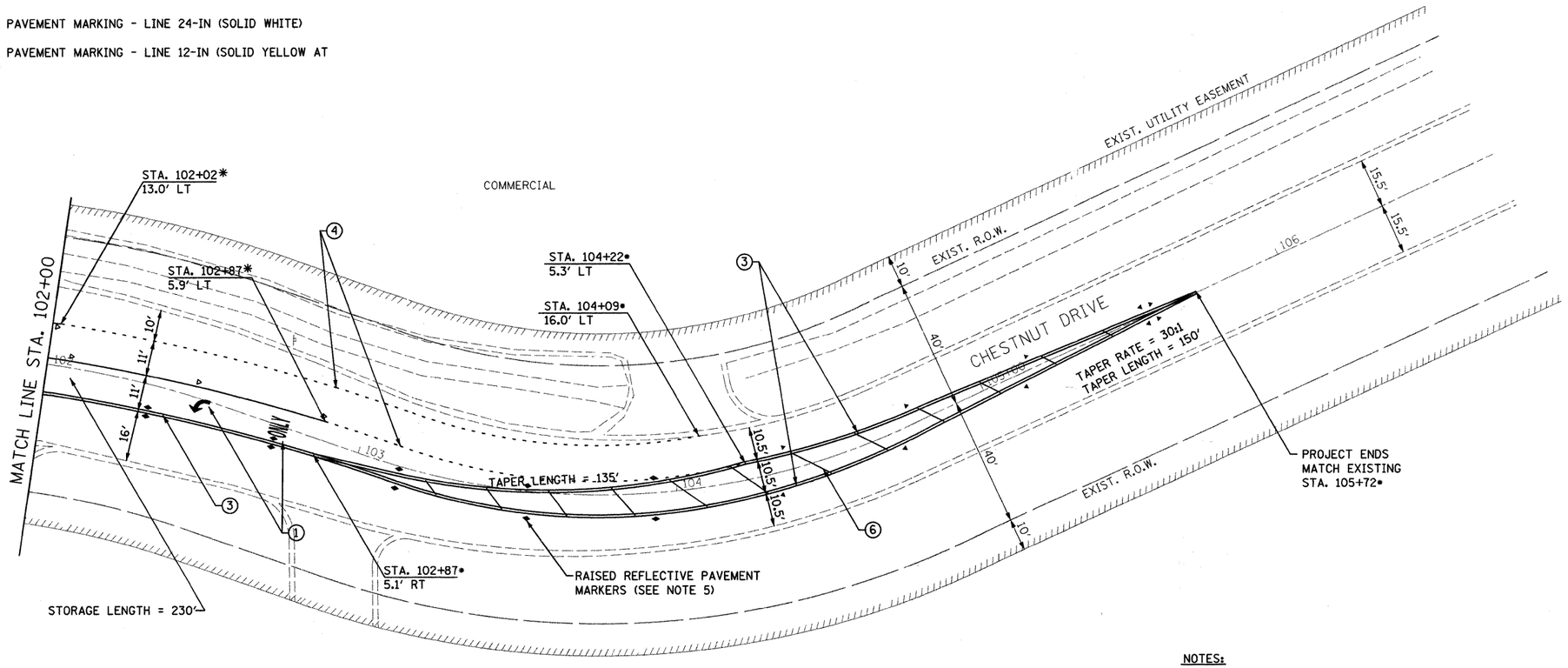
③ THERMOPLASTIC PAVEMENT MARKING - LINE 4-IN (2 SOLID YELLOW SPACED 11-IN C-C)

④ THERMOPLASTIC PAVEMENT MARKING - LINE 6-IN (DOTTED WHITE, 2' STRIPE, 6' GAP)

⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24-IN (SOLID WHITE)

⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12-IN (SOLID YELLOW AT 45°, 20' SPACE)

* REPRESENTS STATIONING ON CHESTNUT LANE



NOTES:

1. PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL UNLESS OTHERWISE NOTED.
2. STOP BARS SHALL BE LOCATED FOUR FEET IN ADVANCE OF CROSSWALK UNLESS OTHERWISE NOTED.
3. PROPOSED CROSSWALK STRIPING SHALL BE CENTERED ON THE CURB DEPRESSIONS AT CORNERS, A MINIMUM OF SIX FEET APART, OR AS DIRECTED BY THE ENGINEER.
4. PAVEMENT MARKINGS AT SIDE STREETS SHALL MATCH EXISTING AT PROJECT LIMITS.
5. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO THE IDOT DISTRICT ONE TYPICAL APPLICATIONS REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT).

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STRAND ASSOCIATES, INC. ENGINEERS
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USER NAME = kindras	DESIGNED -	REVISED -
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PLOT DATE = 10/16/2009	DATE -	REVISED -

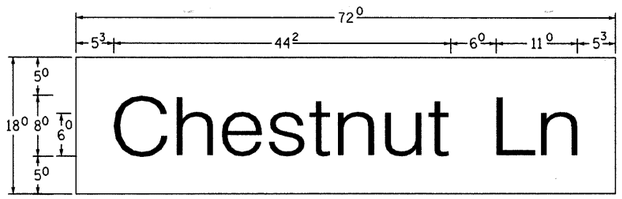
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
IL ROUTE 1 (DIXIE HIGHWAY) AND CHESTNUT LANE

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

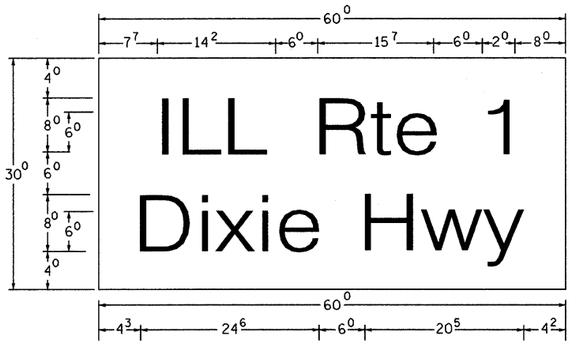
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	18
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PANEL SIGN DESIGN TYPE 1



9.00 Sq. Ft. each
2 Required
Design Series D

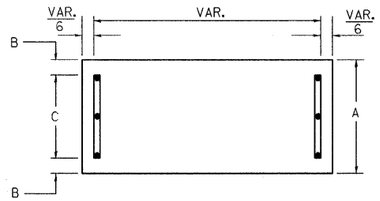
PANEL SIGN DESIGN TYPE 2



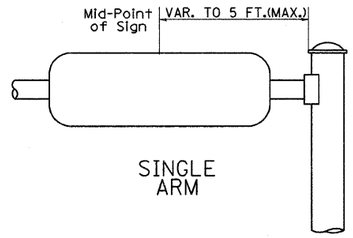
12.5 Sq. Ft. each
2 Required
Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

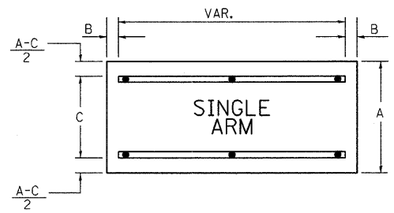
SUPPORTING CHANNELS



A	B	C
18″	2″	14″



SUPPORTING CHANNELS



A	B	C
18″	2″	12″
30″	2″	22″

GENERAL NOTES

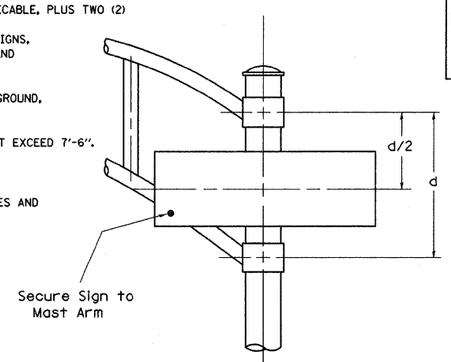
1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2′-6″ x 6′-0″ MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS 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 7′-6″.
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:

- A.K.T. CORPORATION, SCHAUMBURG, IL
- TUCKER COMPANY, INC., WAUWATOSA, WI
- AMERICAN FABRICATION CO., CHICAGO HEIGHTS, IL
- WESTERN TRAFFIC CONTROL INC., CICERO, IL

PARTS LISTING:

SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
SIGN SCREWS	¼″ x 14 x 1″ H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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



DUAL ARM

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

EXAMPLE, 2 (3) DENOTES 3″/8

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

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

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

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

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

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

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	3⁶	5⁰	5⁰	6⁵	a	3⁵	4²
B	3²	4⁰	4³	5³	b	3⁵	4²
C	3²	4⁰	4³	5³	c	3⁵	4¹
D	3²	4⁰	4³	5³	d	3⁵	4²
E	3⁰	3⁵	4⁰	4⁷	e	3⁵	4²
F	3⁰	3⁵	4⁰	4⁷	f	2³	2⁶
G	3²	4⁰	4³	5³	g	3⁵	4²
H	3²	4⁰	4³	5³	h	3⁵	4²
I	0⁷	0⁷	1¹	1²	i	1¹	1¹
J	3⁰	3⁶	4⁰	5⁰	j	2⁰	2²
K	3²	4¹	4³	5⁴	k	3⁵	4²
L	3⁰	3⁵	4⁰	4⁷	l	1¹	1¹
M	3⁷	4⁵	5¹	6¹	m	6⁰	7⁰
N	3²	4⁰	4³	5³	n	3⁵	4²
O	3⁴	4²	4⁵	5⁵	o	3⁶	4³
P	3²	4⁰	4³	5³	p	3⁵	4²
Q	3⁴	4²	4⁵	5⁵	q	3⁵	4²
R	3²	4⁰	4³	5³	r	2⁶	3²
S	3²	4⁰	4³	5³	s	3⁶	4²
T	3⁰	3⁵	4⁰	4⁷	t	2⁷	3²
U	3²	4⁰	4³	5³	u	3⁵	4²
V	3⁵	4⁴	4⁷	6⁰	v	4²	4⁷
W	4⁴	5²	6⁰	7⁰	w	5⁵	6⁴
X	3⁴	4⁰	4⁵	5³	x	4⁴	5¹
Y	3⁶	5⁰	5⁰	6⁶	y	4⁶	5³
Z	3²	4⁰	4³	5³	z	3⁶	4³

NUMBER	6 INCH SERIES C	6 INCH SERIES D	8 INCH SERIES C	8 INCH SERIES D
1	1²	1⁴	1⁵	2⁰
2	3²	4⁰	4³	5³
3	3²	4⁰	4³	5³
4	3⁵	4³	4⁷	5⁷
5	3²	4⁰	4³	5³
6	3²	4⁰	4³	5³
7	3²	4⁰	4³	5³
8	3²	4⁰	4³	5³
9	3²	4⁰	4³	5³
0	3⁴	4²	4⁵	5⁵

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	DRAWN - T.J.R.	REVISED -	06-98
PLOT SCALE = 50.0000 ' / IN.	CHECKED - R.F.K.	REVISED -	10-01-00
PLOT DATE = 10/16/2009	DATE - 02-79	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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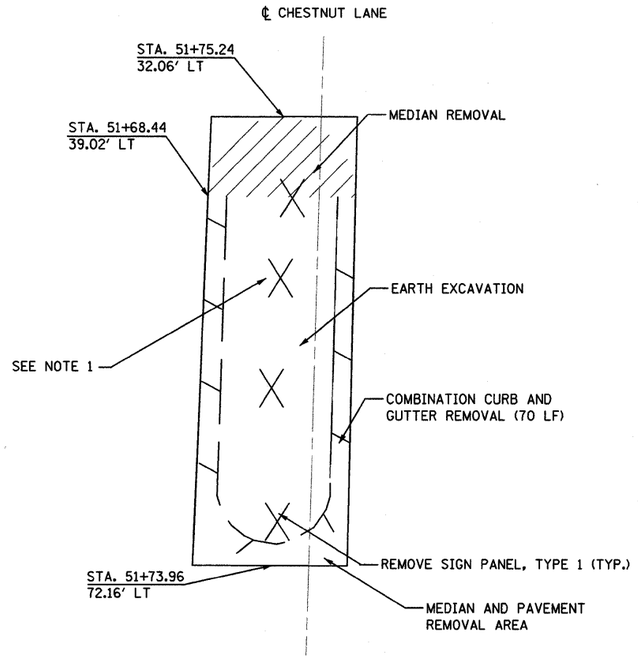
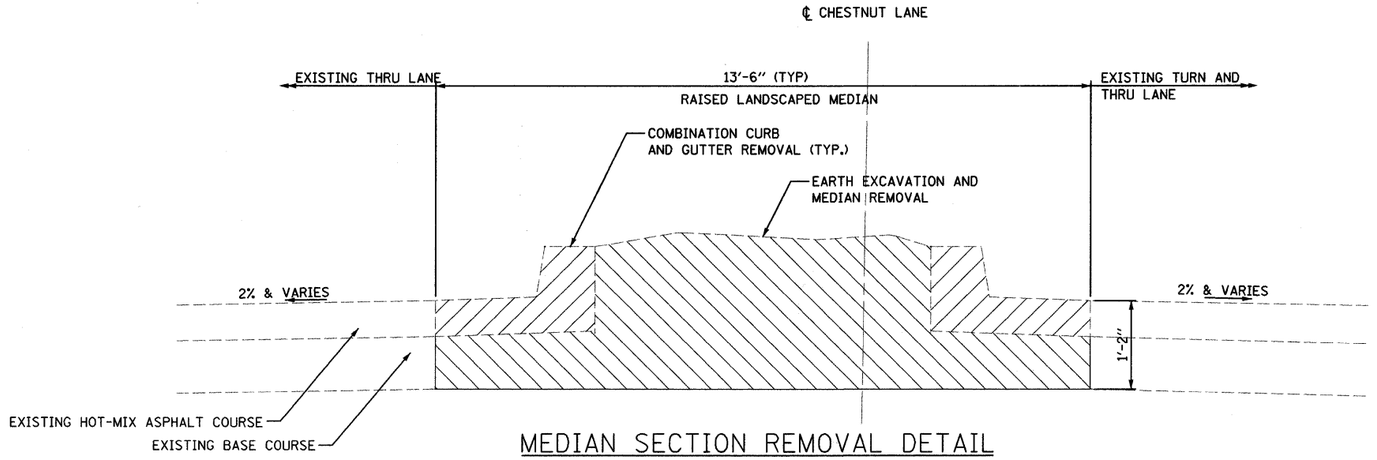
	TS-02	CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



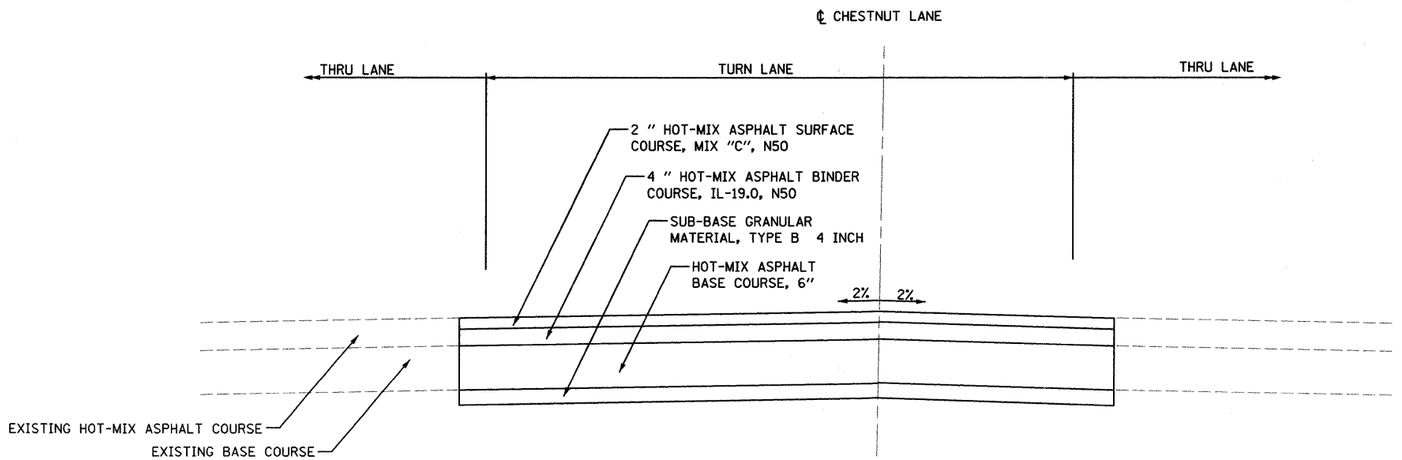
MEDIAN PLAN DETAIL

(NOT TO SCALE)



MEDIAN SECTION REMOVAL DETAIL

(NOT TO SCALE)



MEDIAN SECTION CONSTRUCTION DETAIL

(NOT TO SCALE)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
MEDIAN REMOVAL/PAVEMENT REPLACEMENT CHESTNUT LANE	
HMA SURFACE COURSE, MIX "C", N50 (IL 9.5 mm); 2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4"	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm); 6"	4% @ 50 Gyr.

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

FOR "AC TYPE" AND "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

NOTES:

1. REMOVAL OF EXISTING BRUSH/SHRUBS SHALL BE CONSIDERED CLEARING AND NOT MEASURED FOR PAYMENT.
2. ALL SAWCUTTING NECESSARY FOR THE REMOVAL OF THE EXISTING MEDIAN AND PAVEMENT PATCHING SHALL BE INCIDENTAL TO THE CONTRACT AND WILL NOT BE MEASURED FOR PAYMENT.

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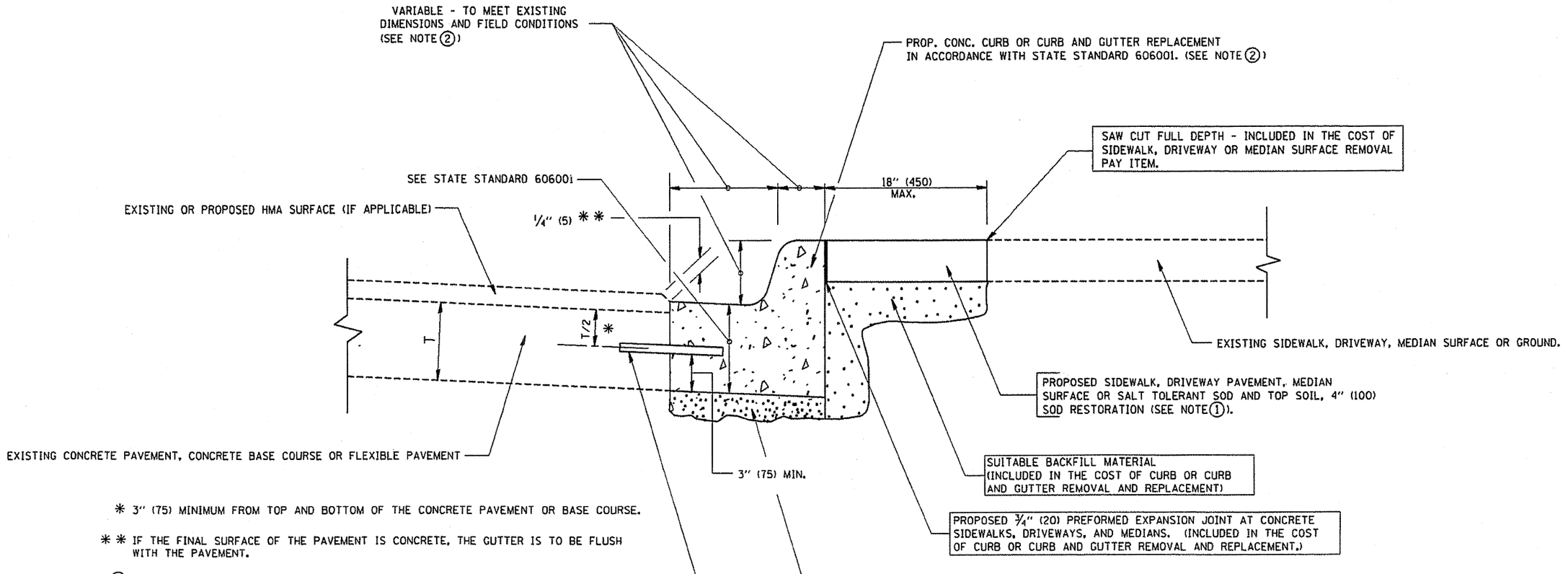
PLOT DATE = 10/27/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MEDIAN REMOVAL DETAIL

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0332	06-00015-00-TL	WILL	31	20
		CONTRACT NO. 83909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

(2) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

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

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

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

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

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

BASIS OF PAYMENT:

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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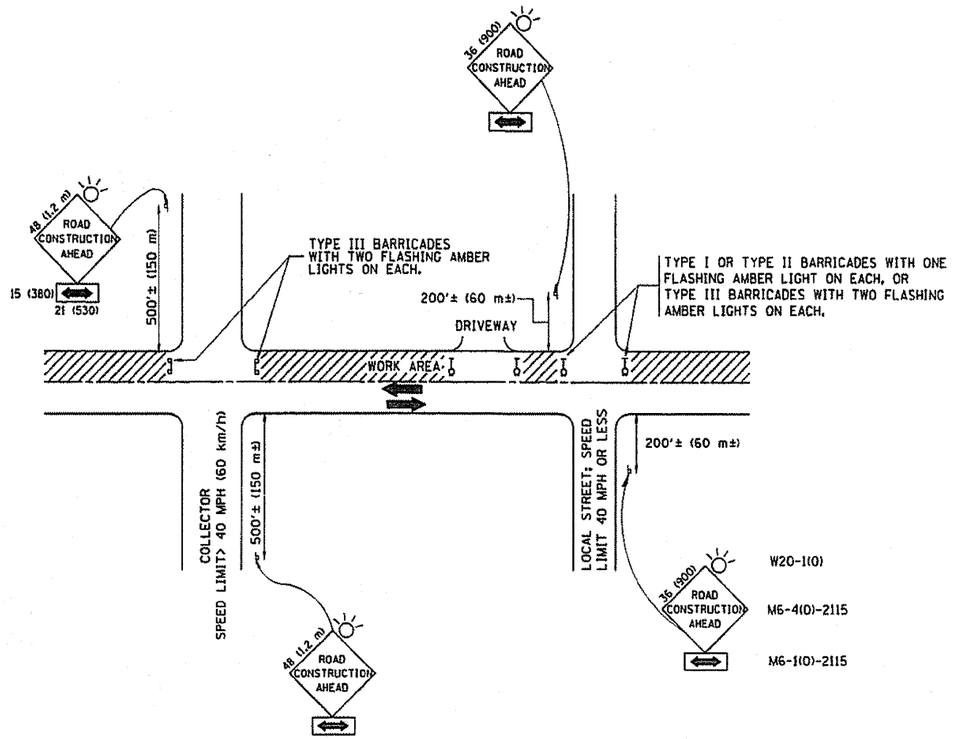
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01
	PLOT DATE = 1/4/2008	DATE - 03-11-94	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	21
	BD600-06 (BD-24)	CONTRACT NO. 83909		
FED. ROAD DIST. NO. 1	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.

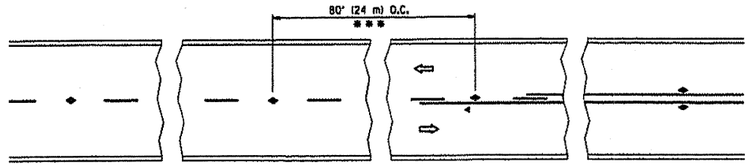
FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglionabt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

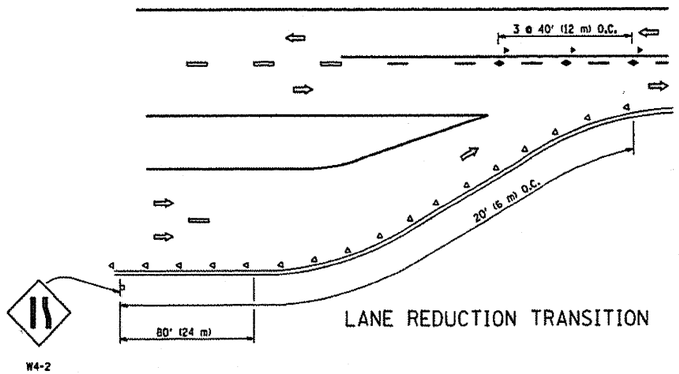
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	22
	TC-10	CONTRACT NO. 83909		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

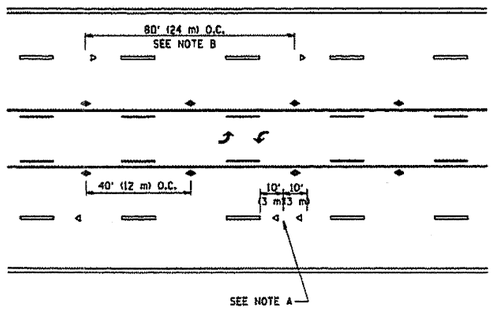


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

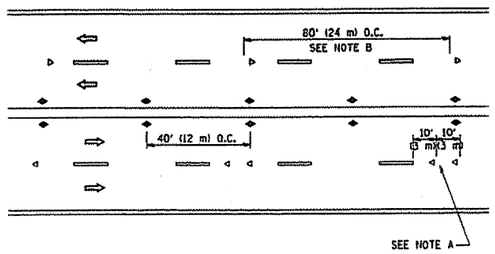
TWO-LANE/TWO-WAY



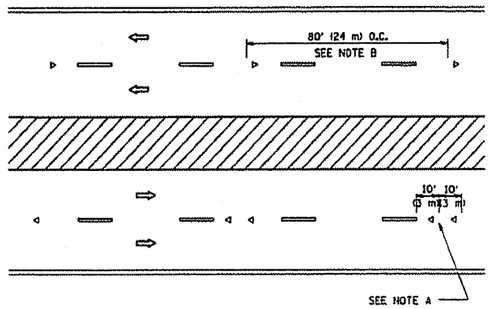
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/D)
- TWO-WAY AMBER MARKER

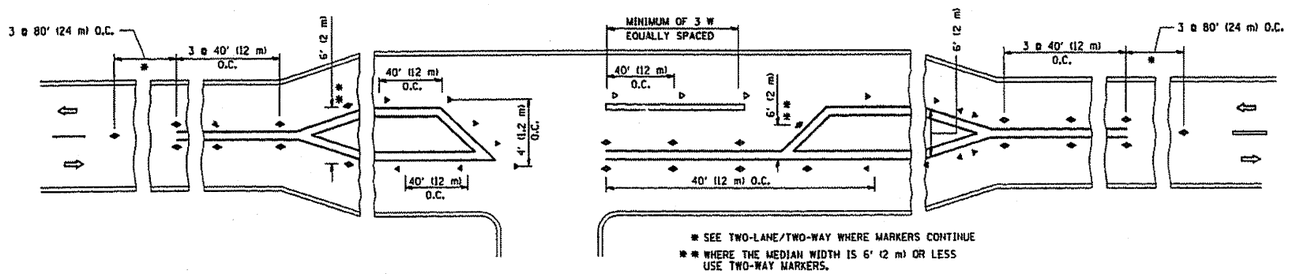
LANE MARKER NOTES

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



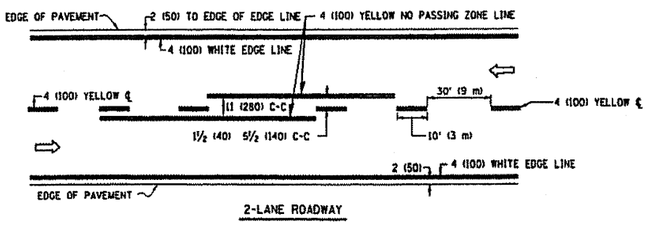
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

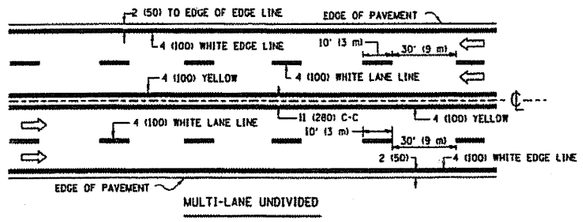
LEFT TURN

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

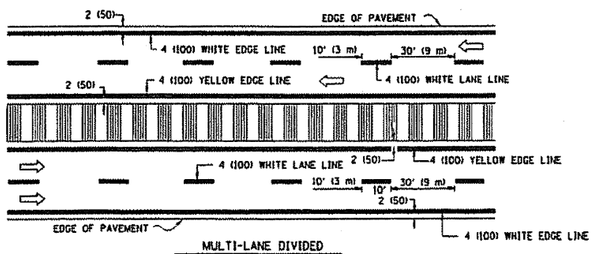
FILE NAME = M:\distatd\22+34\tcll.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - T. RAMMACHER 03-12-99								31	23
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00						TC-11	CONTRACT NO. 83909		
	PLOT DATE = 1/4/2000	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



2-LANE ROADWAY



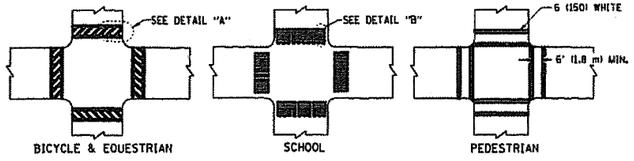
MULTI-LANE UNDIVIDED



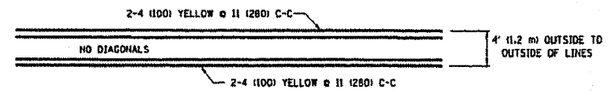
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

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

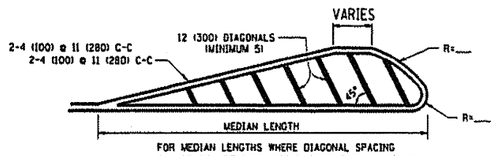
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



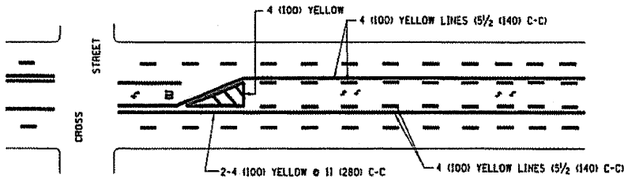
4' (1.2 m) WIDE MEDIANS ONLY



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

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

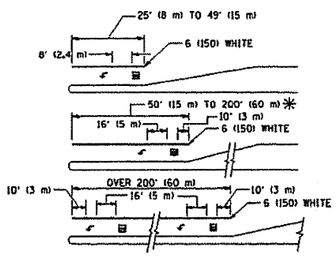
MEDIANS OVER 4' (1.2 m) WIDE



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

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

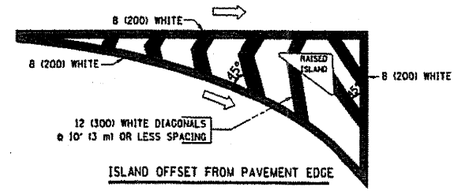


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

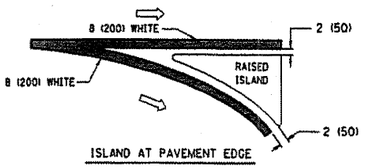
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

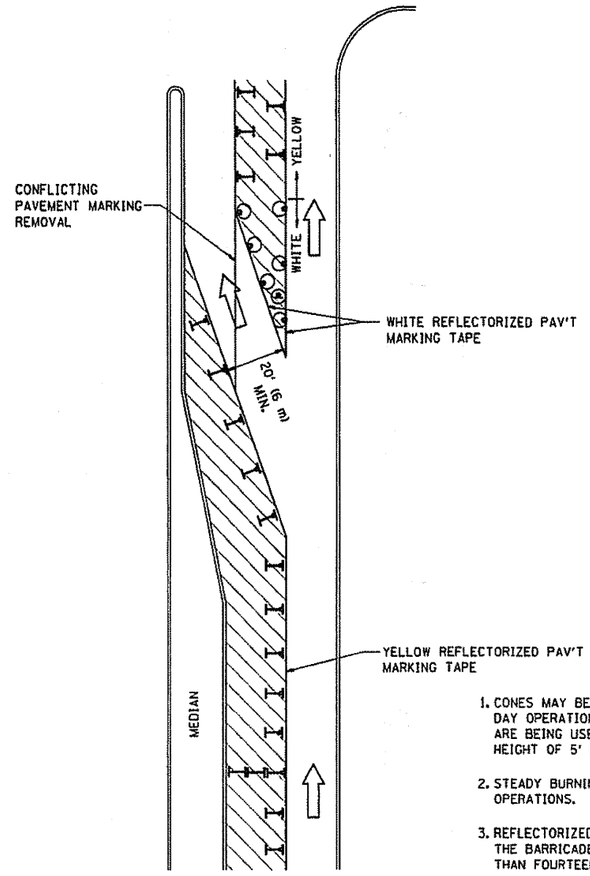
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

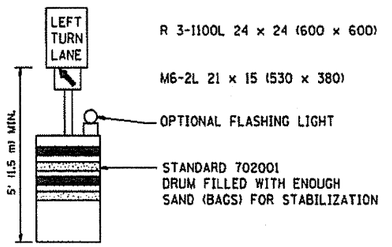
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = M:\diststd\22x34\tc13.dgn	USER NAME = gaglionbt	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
		DRAWN -	REVISED - A. HOUSEH 10-09-96		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96		
	PLOT DATE = 1/4/2000	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00		

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	24
	TC-13	CONTRACT NO. 83909		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





GENERAL NOTES

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

LEGEND

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

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

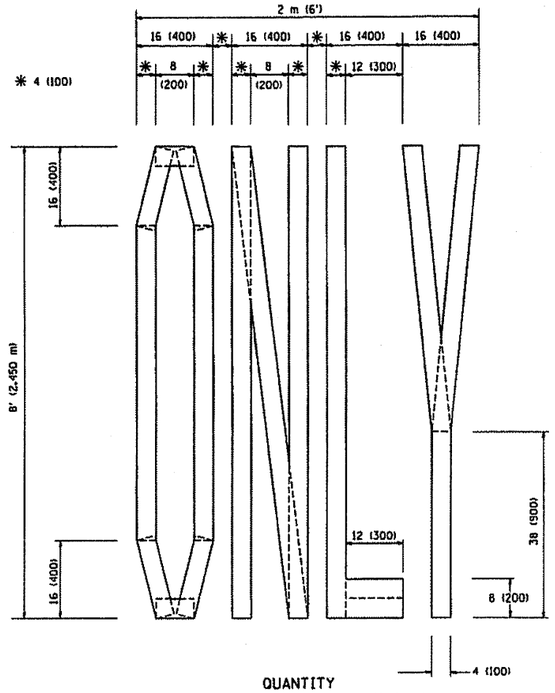
FILE NAME = M:\diststd\22x34\tc14.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -T. RAMMACHER 09-08-94
		DRAWN -	REVISED - A. HOUSEH 11-07-95
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 1/4/2000	DATE -	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

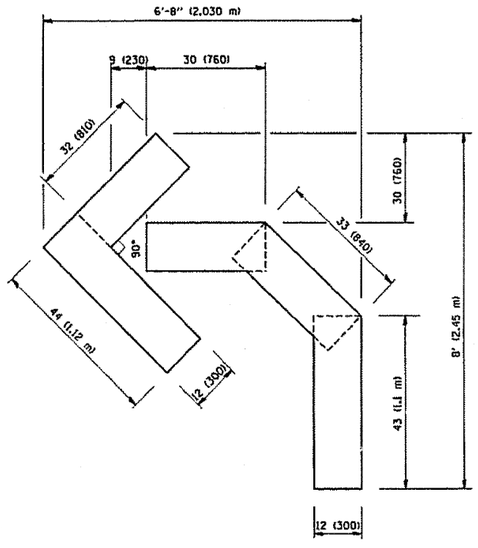
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

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

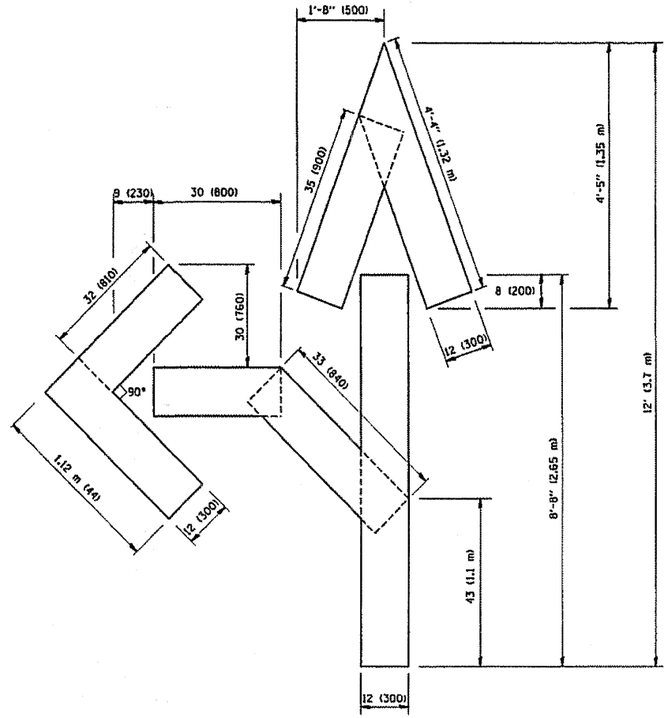
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	25
	TC-14	CONTRACT NO. 83909		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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



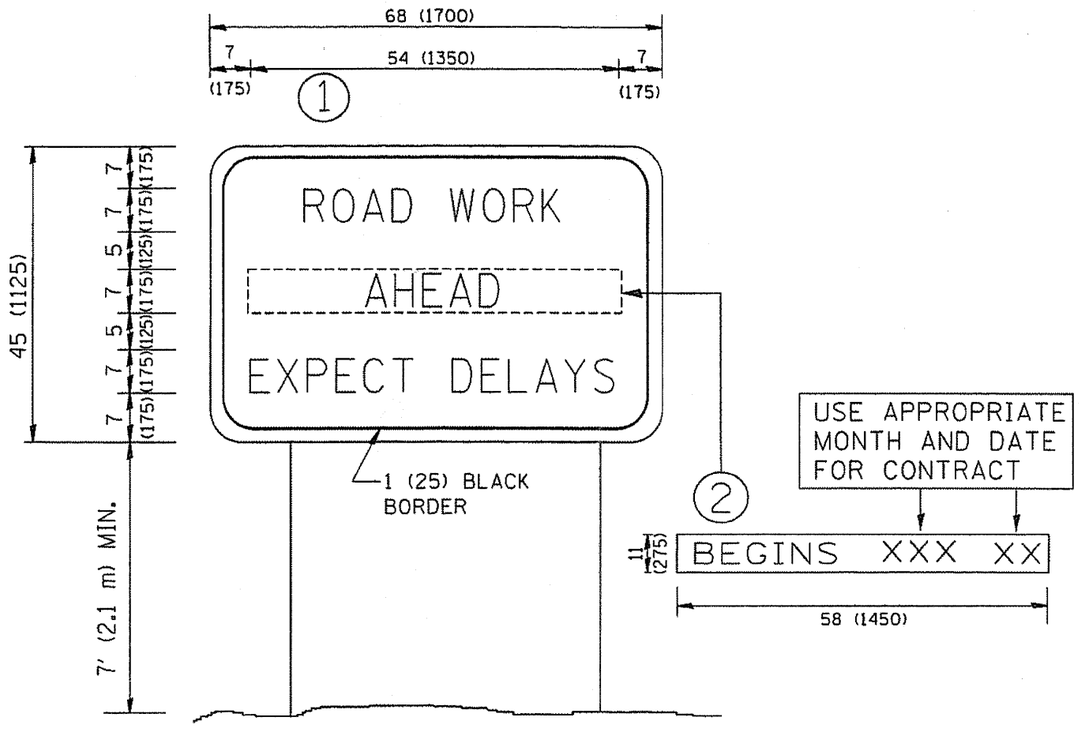
QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)



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

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

FILE NAME = W:\data\sd22-34\tc16.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -T. RAMMACHER 11-04-97							
	PLOT SCALE = 50.8000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98				TC-16		31	26
	PLOT DATE = 1/4/2000	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 83909



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2000	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	27
	TC-22	CONTRACT NO. 83909		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. 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.

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.

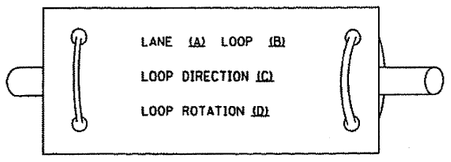
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

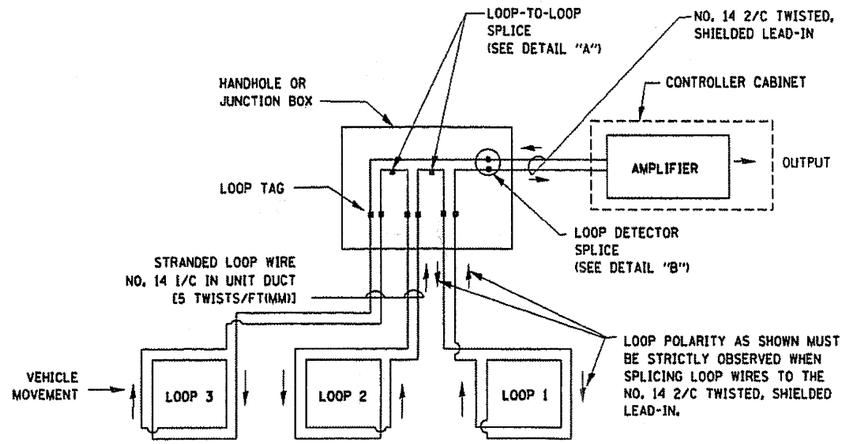


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

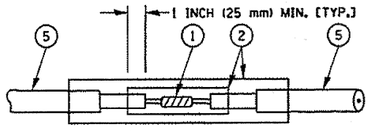
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

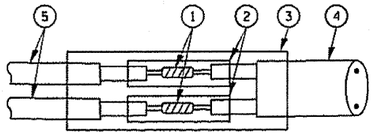


DETECTOR LOOP WIRING SCHEMATIC

- 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

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.

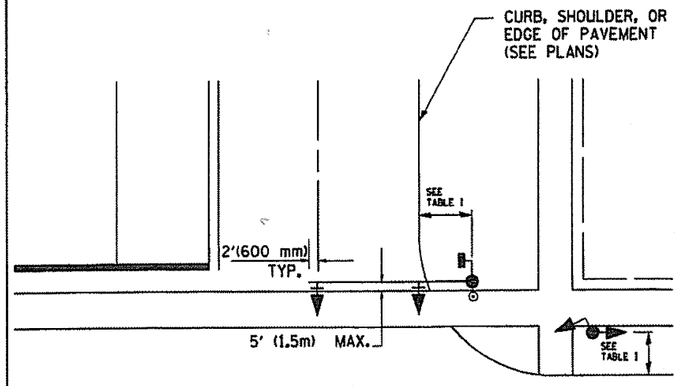
(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

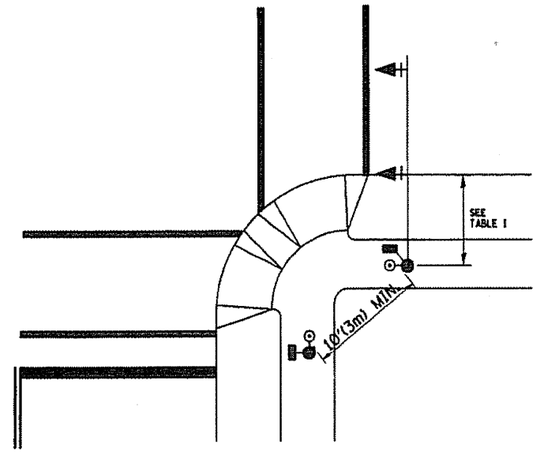
FILE NAME = W:\diststd\22x34\ts05.dgn	USER NAME = gaglianobt	DESIGNED - D.A.D.	REVISED - 11-12-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - R.W.P.	REVISED - BUR. TRAFFIC 01-01-02								31	25
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - D.A.Z.	REVISED -						TS-05	CONTRACT NO. 83909		
	PLOT DATE = 1/4/2008	DATE - 05-30-00	REVISED -		SCALE: NONE	SHEET NO. 1 OF 4 SHEETS	STA. TO STA.		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:

1. 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

2. 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.

3. 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.

4. 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

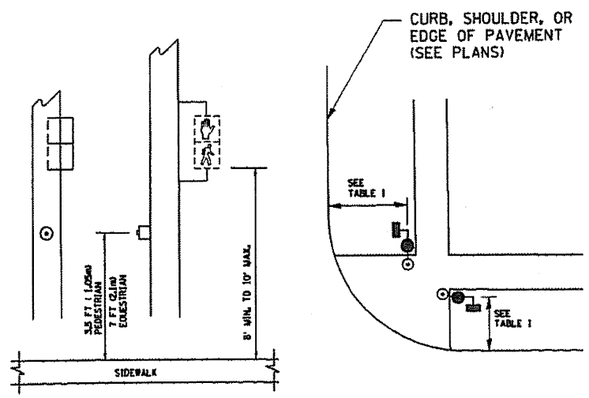


TABLE I

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

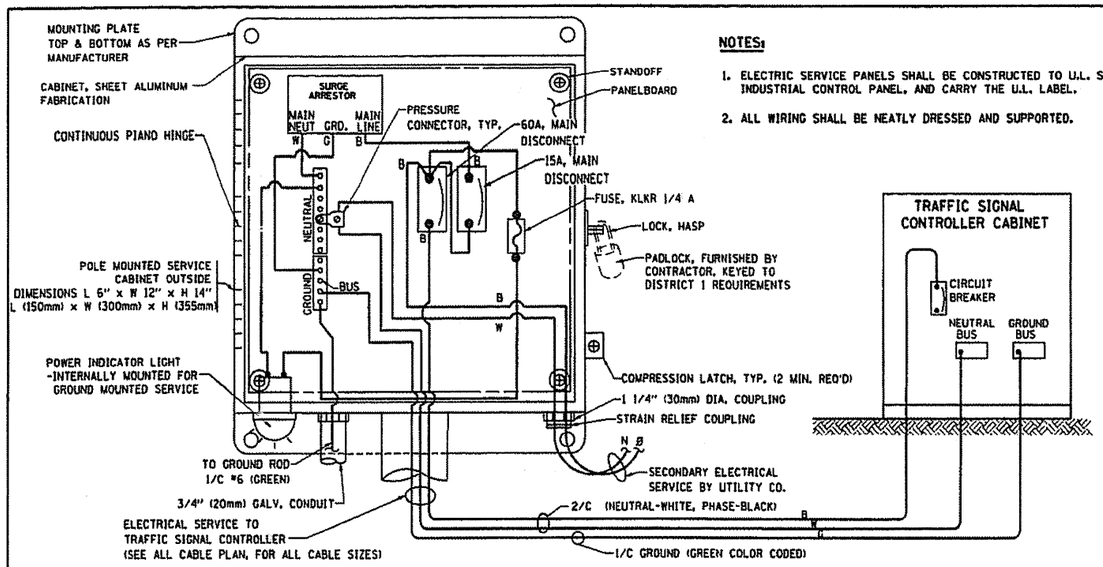
FILE NAME = M:\district1\22x34\ts05.dgn	USER NAME = gaglionobt	DESIGNED - D.A.D.	REVISED - BUR. TRAFFIC 01-01-02
		DRAWN - R.W.P.	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - D.A.Z.	REVISED -
	PLOT DATE = 1/4/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

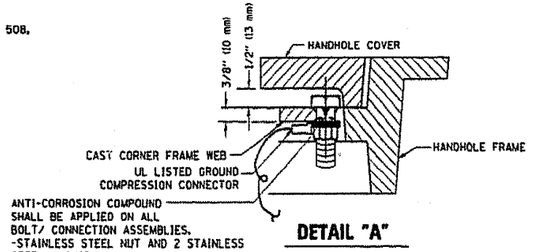
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	29
	TS-05	CONTRACT NO. 83909		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



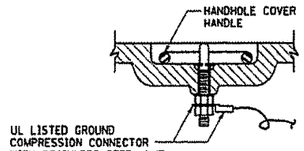
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

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.



DETAIL "A"



DETAIL "B"

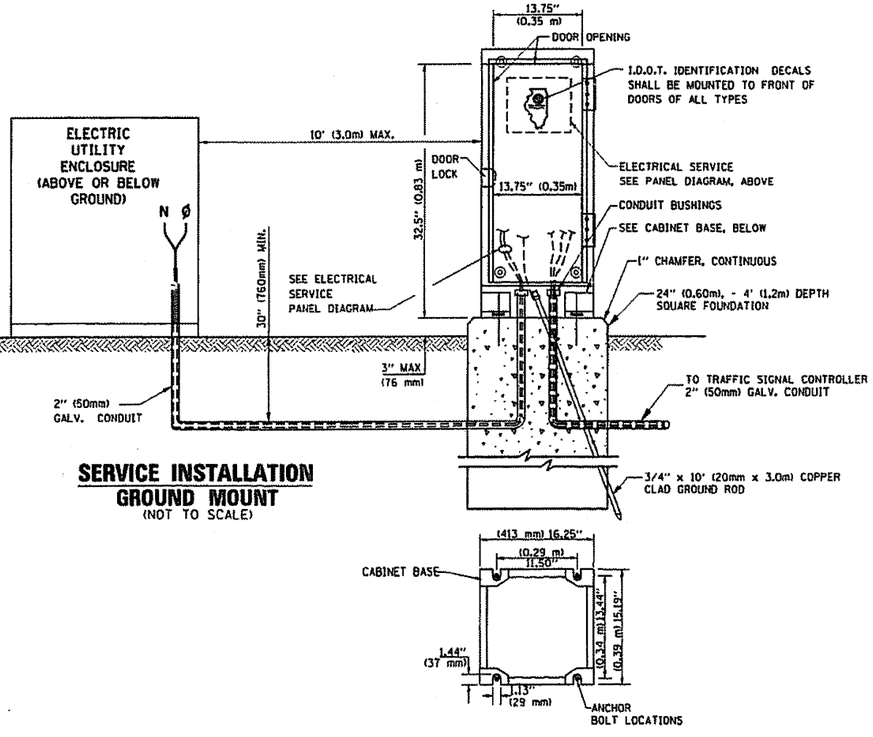
NOTES:

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.

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

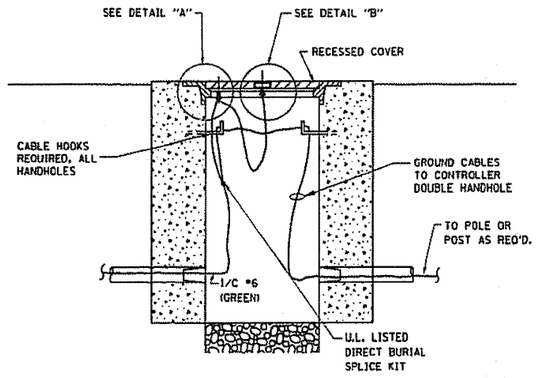


SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)

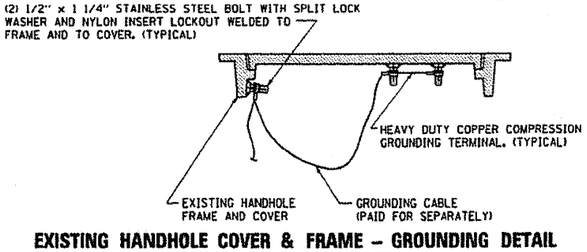
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



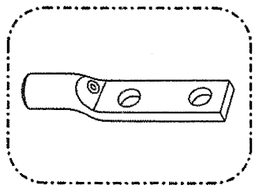
HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

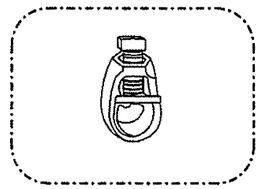


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



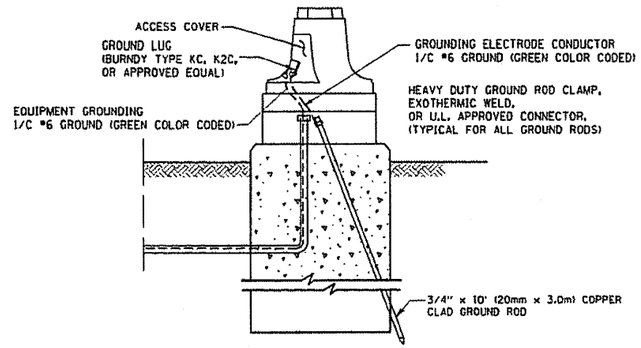
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

NOTES:

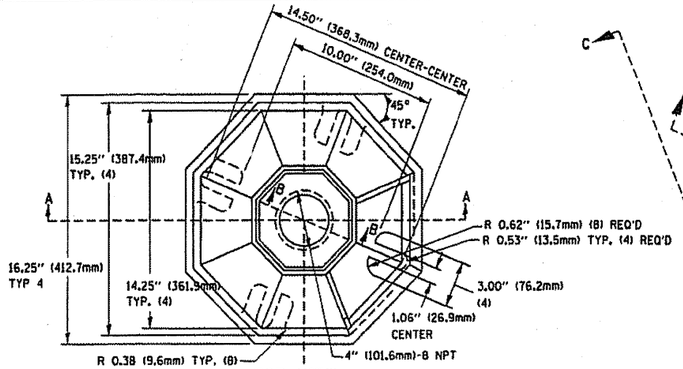
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



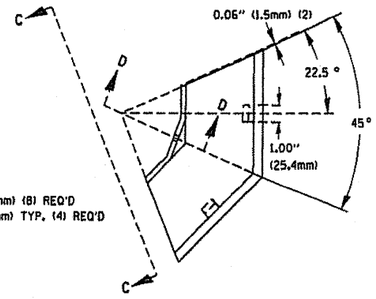
MAST ARM POLE / POST–GROUNDING DETAIL

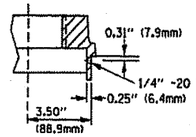
(NOT TO SCALE)

FILE NAME = M:\diststd\22x34\ts05.dgn	USER NAME = gaglionobt	DESIGNED - D.A.D.	REVISED - 03-15-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - R.W.P.	REVISED - BUR. TRAFFIC 01-01-02								31	30
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - D.A.Z.	REVISED -		SCALE: NONE	SHEET NO. 3 OF 4 SHEETS	STA. TO STA.		TS-05	CONTRACT NO. 83909		
	PLOT DATE = 1/4/2000	DATE - 05-30-00	REVISED -					FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

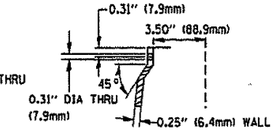


TOP VIEW

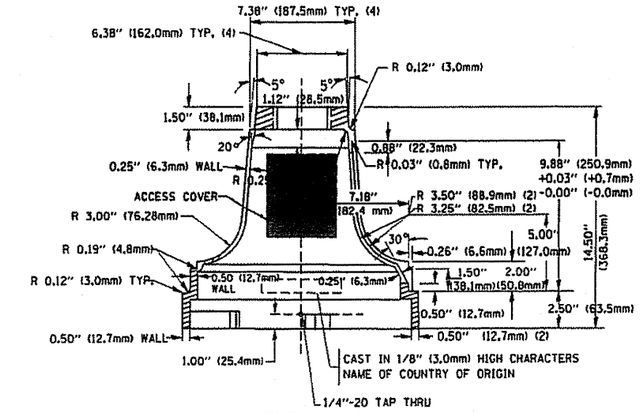




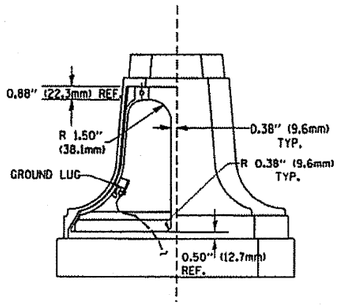
SECTION B-B



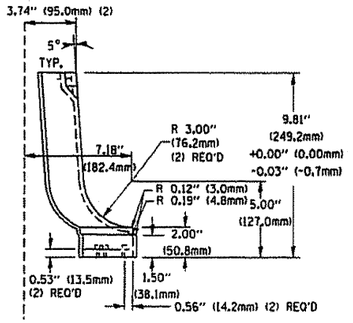
SECTION D-D



SECTION A-A

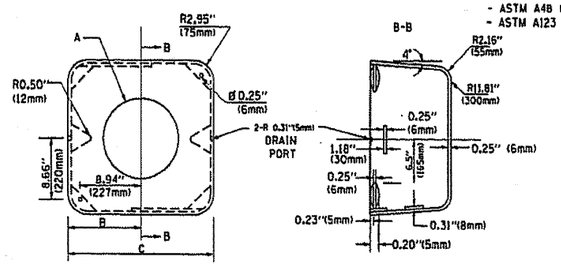


VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

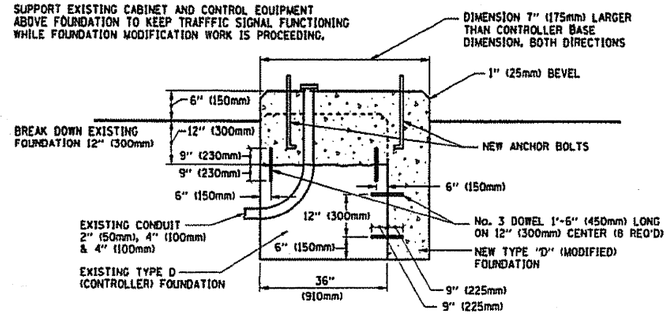
MATERIALS:
- ASTM A48 CLASS 30 GREY IRON
- ASTM A123 HOT DIPPED GALVANIZED



TYPE	A	B	C	HEIGHT	WEIGHT
I	ø 10.125" (257mm)	9.5" (241mm)	19" (483mm)	12" (300mm)	24kg
II	ø 11.125" (283mm)	10.75" (273mm)	21.5" (546mm)	12" (300mm)	26kg

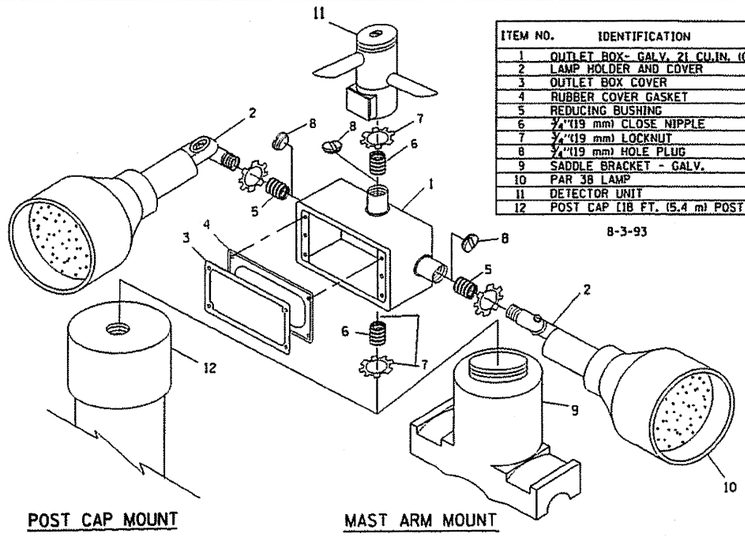
SHROUD DETAIL

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

(NOT TO SCALE)



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

8-3-93

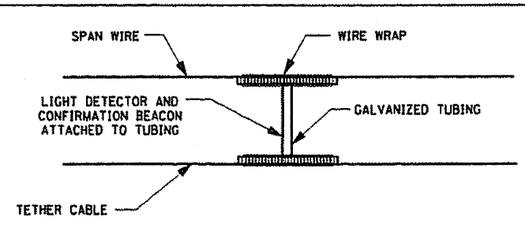
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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.

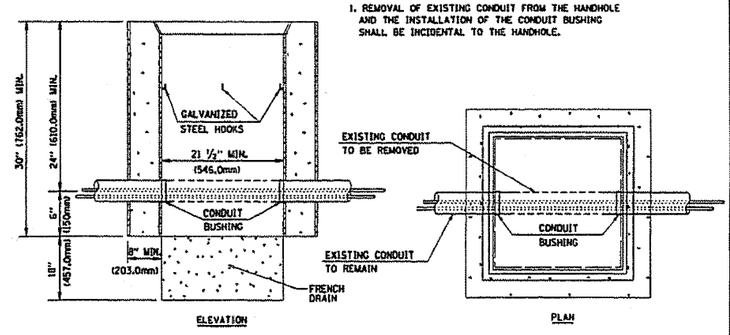


LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)

NOTES:

1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



DETAIL
HANDHOLE TO INTERCEPT EXISTING CONDUIT
N.T.S.

FILE NAME = W:\diststd\22x34\ts05.dgn	USER NAME = gaglianobt	DESIGNED - D.A.D.	REVISED - BUR.TRAFFIC 03-15-01
		DRAWN - R.W.P.	REVISED - BUR.TRAFFIC 11-12-01
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - D.A.Z.	REVISED - BUR.TRAFFIC 01-01-02
	PLOT DATE = 1/4/2000	DATE - 05-30-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	31
	TS-05	CONTRACT NO. 83909		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		