

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 348 (HARLEM AVENUE)  
FROM SOUTHWEST HIGHWAY TO 65TH STREET  
SIGNING  
SECTION: 07-00055-01-SG  
PROJECT: HPP-3462(001)  
JOB NO: C-91-503-09  
MUNICIPALITIES OF PALOS HILLS,  
CHICAGO RIDGE, AND BRIDGEVIEW  
COOK COUNTY

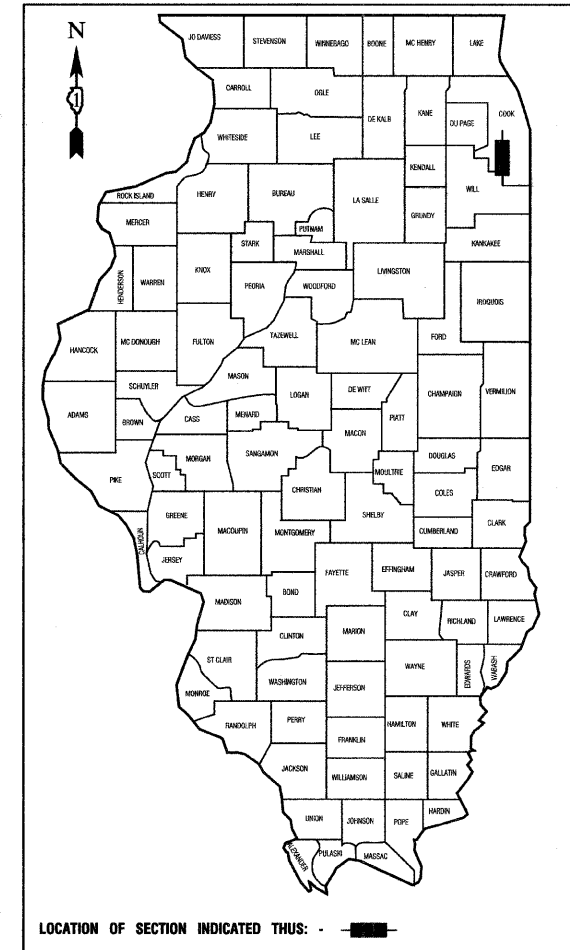
F. A. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	07-00055-01-SG	COOK	55	1
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT HPP-3462(001)		

CONTRACT #63510

**INDEX OF SHEETS**  
SEE SHEET NO. 2

**HIGHWAY STANDARDS**  
SEE SHEET NO. 2

PROJECT IS LOCATED IN THE CITY OF PALOS HILLS  
AND THE VILLAGES OF BRIDGEVIEW AND CHICAGO RIDGE



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Approved: 10/22/2010  
*Steve Lelone*  
President, Village of Bridgeview

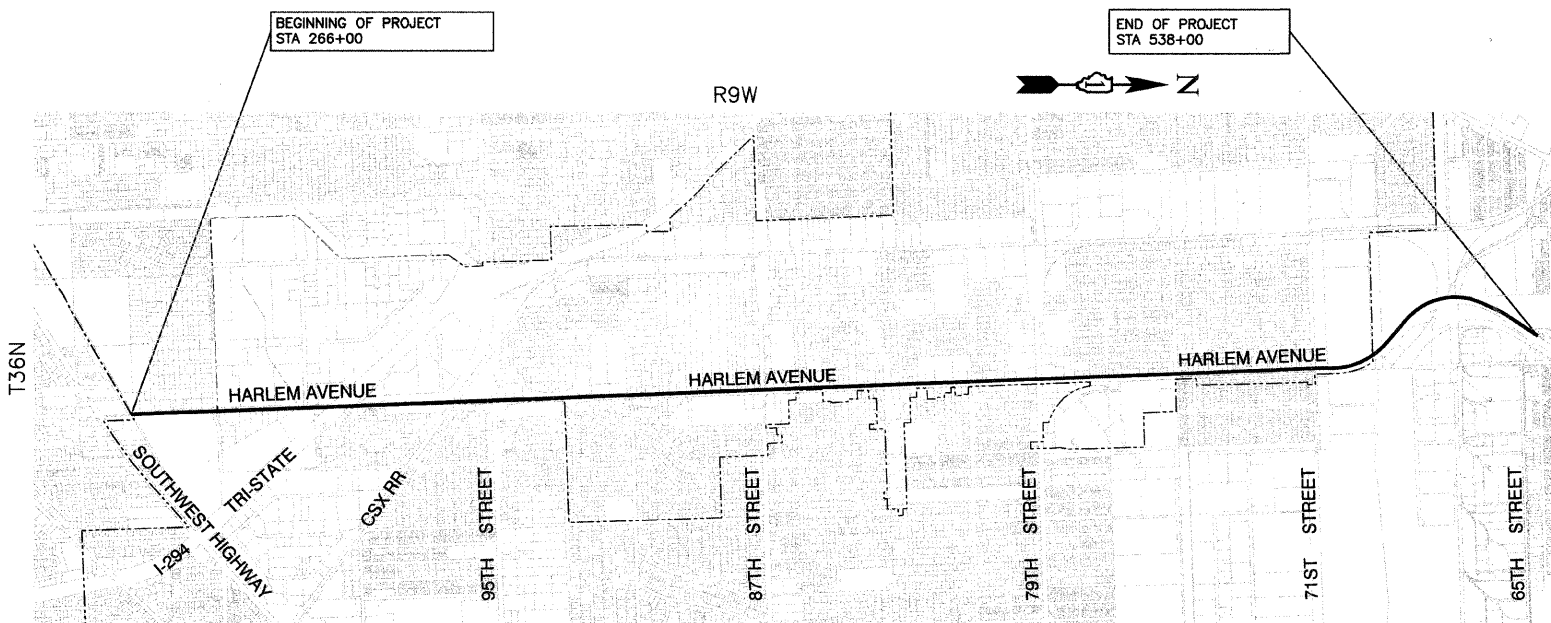
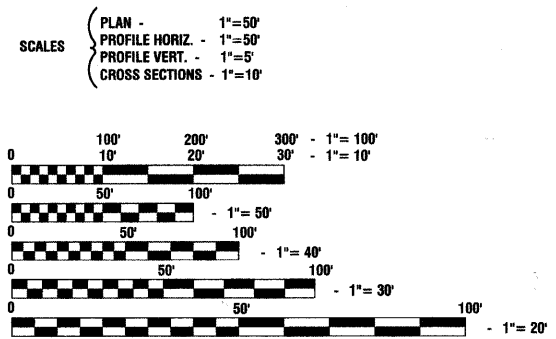
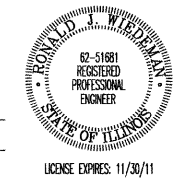
Passed: NOVEMBER 4, 2010  
*Charles H. Heston*  
District 1 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review: NOVEMBER 8, 2010  
*Diane M. O'Keefe*  
Deputy Director of Highways, Region 1 Engineer

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THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE  
DIRECT SUPERVISION OF:

*[Signature]*  
10/22/2010



**LOCATION MAP**

NO SCALE  
GROSS AND NET LENGTH=27,200 FEET=5.15 MILES

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL  
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700  
CONTACT ENGINEER: RON WIEDEMAN

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

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

**CONTRACT NO. 63510**

**INDEX OF SHEETS**

- 1. COVER SHEET
- 2. INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
- 3. SUMMARY OF QUANTITIES
- 4. SCHEDULE OF QUANTITIES
- 5.-17. SIGNING PLANS
- 18.-19. SIGNING DETAILS
- 20. ILLUMINATED STREET SIGN LOCATION MAP
- 21.-50. ILLUMINATED STREET SIGN PLANS
- 51.-54. STREET NAME SIGNS
- 55. CONSTRUCTION DETAILS

**STATE STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701606-07 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-07 URBAN LANE CLOSURE MULTILANE INTERSECTION
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS

**GENERAL NOTES**

- 1. BEFORE ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY OWNERS AND THE VILLAGE OF BRIDGEVIEW, PALOS HILLS AND CHICAGO RIDGE.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE OF BRIDGEVIEW.
- 4. THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND THE LATEST SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN THIS WORK.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 6. THE CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL FROM DAMAGE 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 UNLESS OTHERWISE NOTED.
- 7. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847)-705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- 8. THE APPROXIMATE LOCATION OF KNOWN PUBLIC UTILITIES ARE SHOWN ON THE PLANS.
- 9. HOWEVER, THE DEPARTMENT DOES NOT GUARANTEE THEIR ACCURACY. PRIOR TO COMMENCING OPERATIONS ON THE PROJECT WHICH MAY IN ANY WAY CREATE THE POSSIBILITY OF INVOLVEMENT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNER (OR COMMUNITY) INVOLVED. ADJUSTMENT OF ALL PUBLIC UTILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT WILL BE DONE BY THE RESPECTIVE OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATION BEFORE STARTING CONSTRUCTION OPERATIONS IN ACCORDANCE WITH SPECIAL PROVISION LR105. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES.

FILE NAME = 07441_02-NOTE-01 - IDOT P01	USER NAME =	DESIGNED -- MRS	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	HARLEM AVENUE BEAUTIFICATION FROM SOUTHWEST HIGHWAY TO 65TH STREET		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -- PKB	REVISED --		348	07-00055-01-SG	COOK	55	2			
PLOT SCALE =	DRAWN -- RG	REVISED --	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES		CONTRACT NO. 63510							
PLOT DATE = 10-21-10	CHECKED -- AG	REVISED --	SCALE: NONE		SHEET NO. 2	OF 55 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	HPP-3462(001)	

SUMMARY OF QUANTITIES				TOTAL QTY	TRAFFIC SIGNALS	SIGNING
S.I. CODE NO.	PAY ITEM	UNIT				
67100100	MOBILIZATION	L SUM	1	0.5	0.5	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.5	0.5	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.5	0.5	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5	0.5	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5	0.5	
X7200366	SIGN PANEL--TYPE 3 (SPECIAL)	SQ FT	675		675	
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	832		832	
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	300	300		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	13	13		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	7000	7000		
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	13	13		
Z0000850	TEMPORARY INFORMATION SIGNING	SQ FT	103		103	
XX006926	ILLUMINATED STREET NAME SIGN	EACH	39	39		

FILE NAME = 07441\_02-QUAN-01 - IDOT.P01

USER NAME =	DESIGNED -- MRS	REVISED --
	CHECKED -- PKB	REVISED --
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PLOT DATE = 10-21-10	CHECKED -- AG	REVISED --

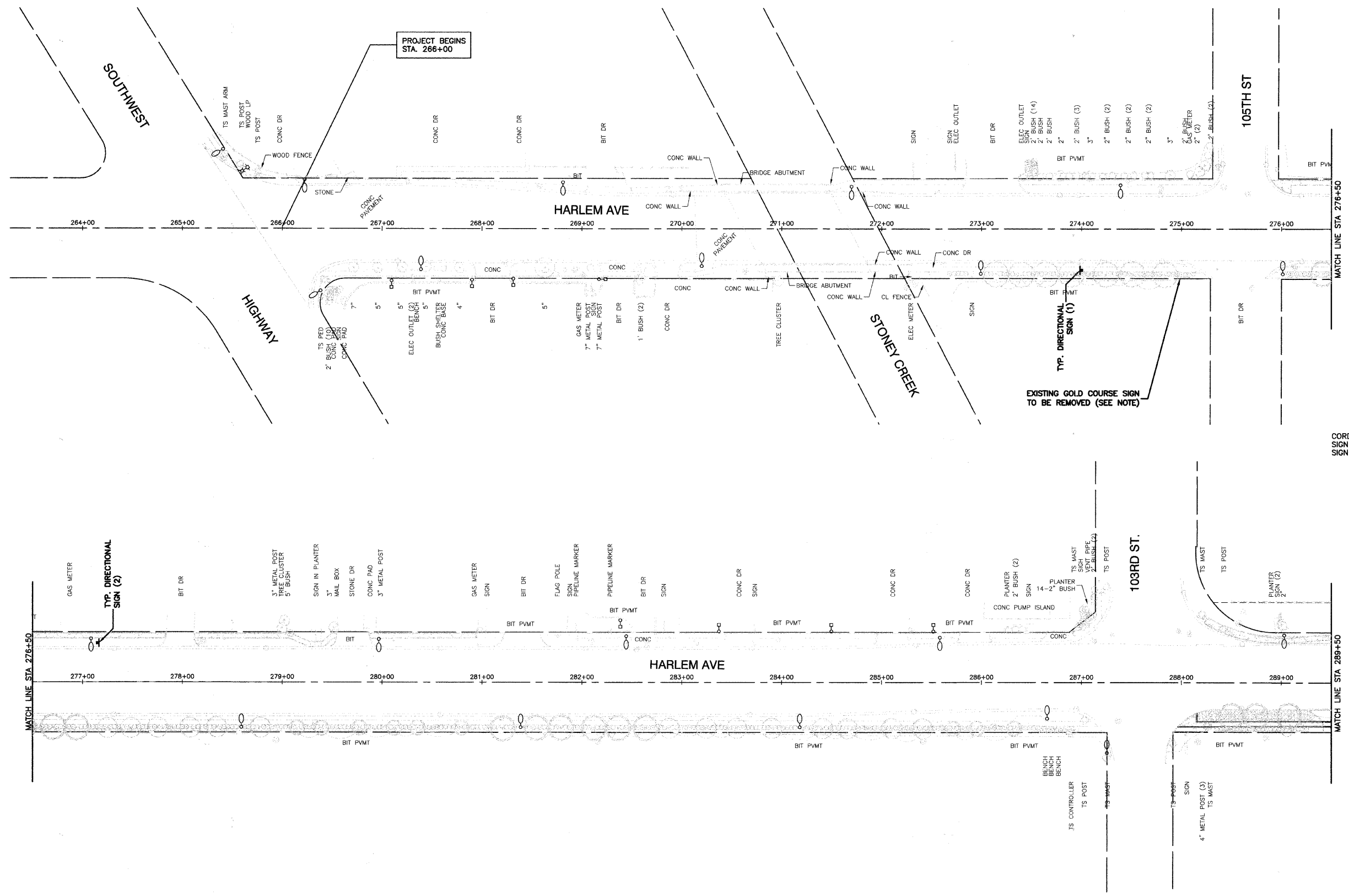
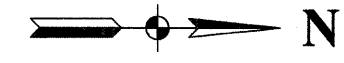
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HARLEM AVENUE BEAUTIFICATION  
FROM SOUTHWEST HIGHWAY TO 65TH STREET  
SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	07-00055-01-SG	COOK	55	3
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3482(001)				

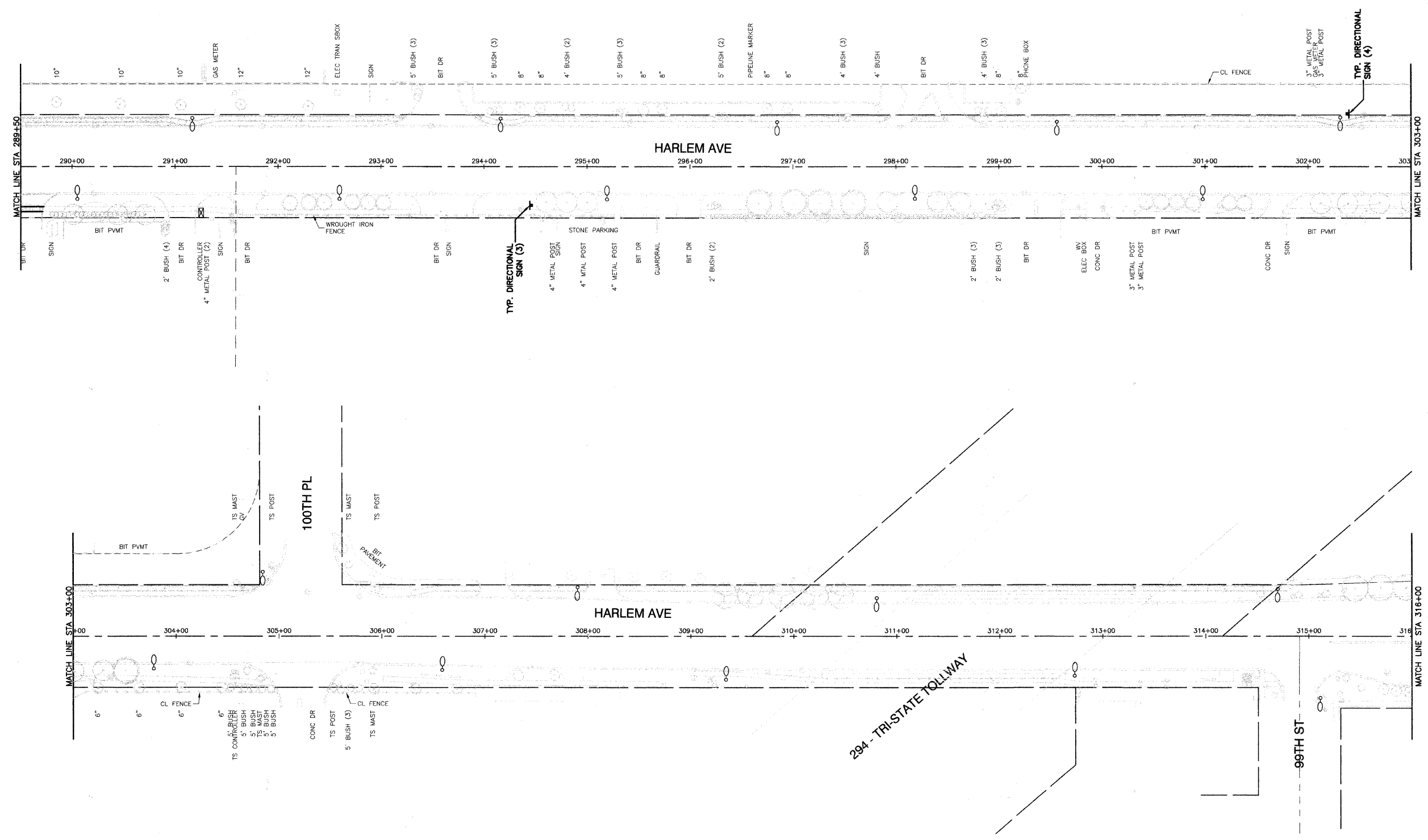
SCALE: NONE SHEET NO. 3 OF 55 SHEETS STA. TO STA.

SCHEDULE OF QUANTITIES					
	UNIT	Chicago Ridge	Palos Hills	Bridgeview	TOTAL QTY
MOBILIZATION	L SUM	0.11	0.03	0.86	1
TRAFFIC CONTROL AND PROTECTION STANDARD 701601	L SUM	0.11	0.03	0.86	1
TRAFFIC CONTROL AND PROTECTION STANDARD 701606	L SUM	0.11	0.03	0.86	1
TRAFFIC CONTROL AND PROTECTION STANDARD 701701	L SUM	0.11	0.03	0.86	1
TRAFFIC CONTROL AND PROTECTION STANDARD 701801	L SUM	0.11	0.03	0.86	1
SIGN PANEL-TYPE 3 (SPECIAL)	SQ FT	81	27	567	675
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT			300	300
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		11	13
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1100		5900	7000
MODIFY EXISTING CONTROLLER CABINET	EACH	2		11	13
TEMPORARY INFORMATION SIGNING	SQ FT	11	4	88	103
ILLUMINATED STREET NAME SIGN	EACH	5		34	39



**NOTE:**  
 COORDINATE REMOVAL OF EXISTING SIGN WITH THE CITY OF PALOS HILLS. SIGN TO BE REMOVED BY CITY.

FILE NAME = 07441_02-PLAN-01 - P01	USER NAME =	DESIGNED -- RJW	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HARLEM AVENUE BEAUTIFICATION FROM SOUTHWEST HIGHWAY TO 65TH STREET SIGNING PLAN</b>		F.A.U. RTE. 348	SECTION 07-00065-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 5
	PLOT SCALE = 1"=50'	DRAWN -- RG	REVISED --		SCALE: 1"=50'	SHEET NO. 5 OF 55 SHEETS	STA. 105TH ST TO STA. 289+50	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HPP-3462(001)	
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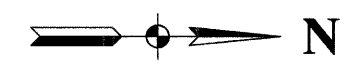
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PLOT SCALE = 1"=50'	DRAWN -- RG	REVISED --
PLOT DATE = 10-21-10	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HARLEM AVENUE BEAUTIFICATION  
FROM SOUTHWEST HIGHWAY TO 65TH STREET  
SIGNING PLAN**

SCALE: 1"=50'    SHEET NO. 6 OF 55 SHEETS    STA. 289+50 TO STA. 316+00

F.A.U. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 6
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT HPP-3462(001)		
CONTRACT NO. 63510				



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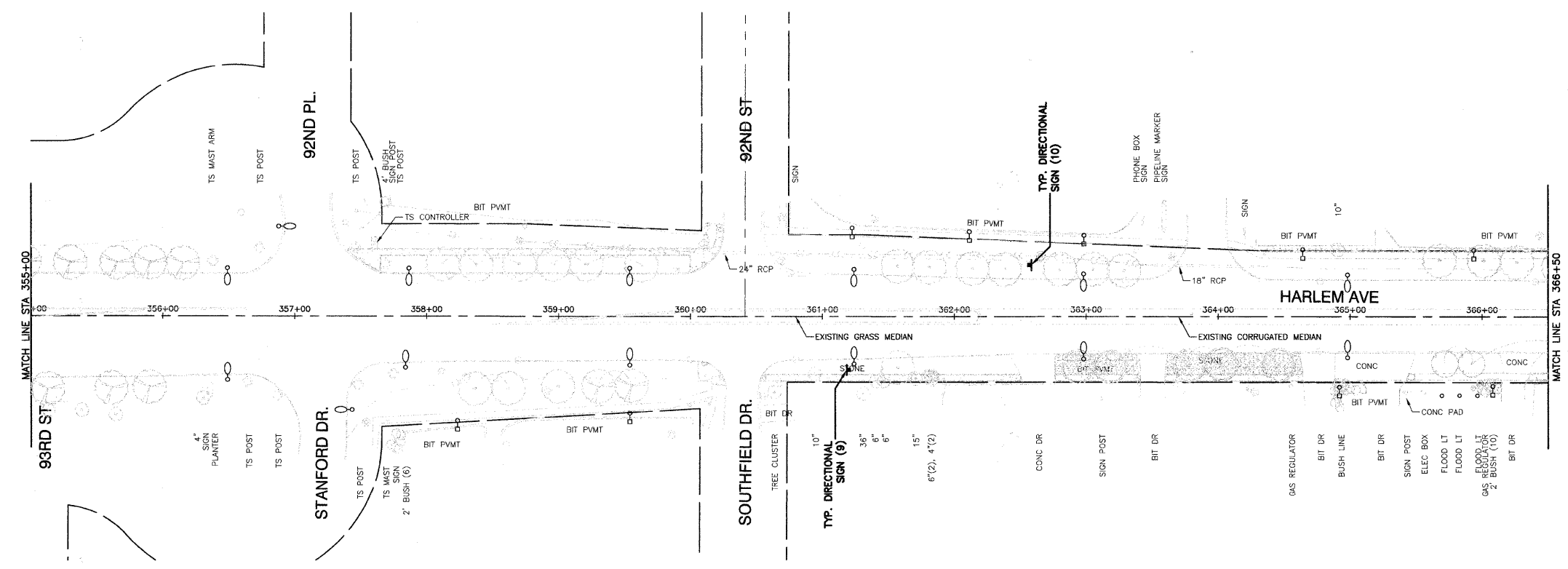
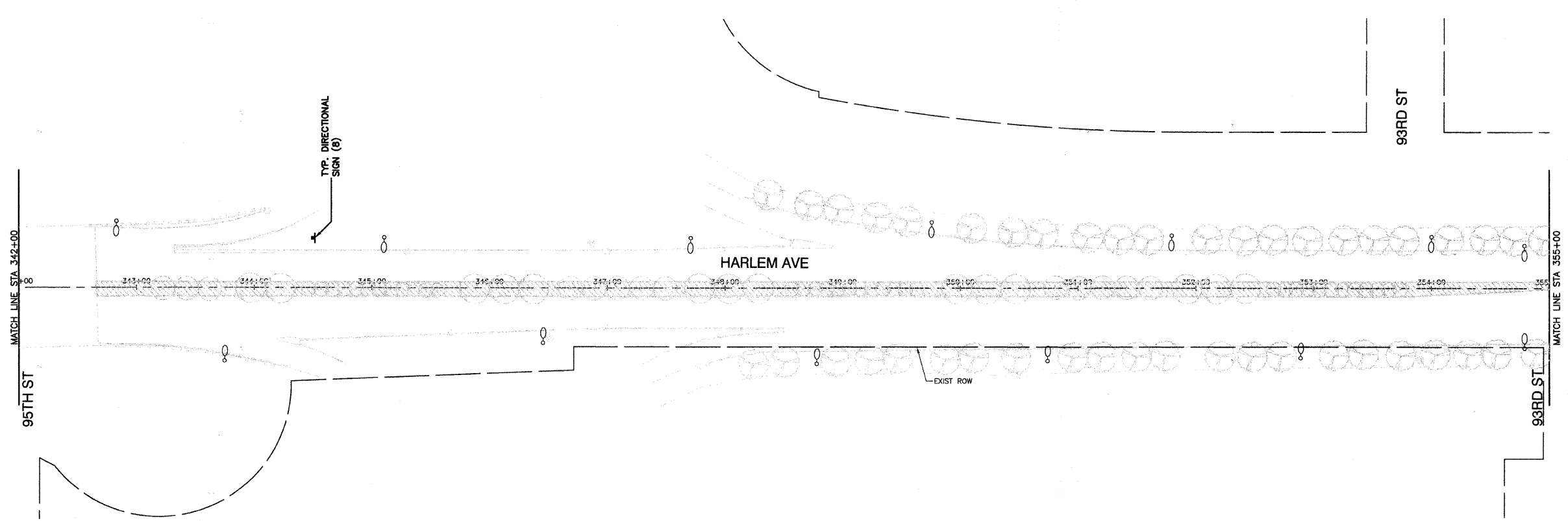
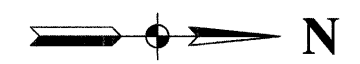
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CHECKED -- PKB	DRAWN -- RG	REVISED --
CHECKED -- AG	REVISED --	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HARLEM AVENUE BEAUTIFICATION  
 FROM SOUTHWEST HIGHWAY TO 65TH STREET  
 SIGNING PLAN**

SCALE: 1"=50'    SHEET NO. 7 OF 55 SHEETS    STA. 316+00 TO STA. 342+00

F.A.U. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 7
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1 ILLINOIS    FED. AID PROJECT HPP 3482(001)				



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 USER NAME =  
 PLOT SCALE = 1"=50'  
 PLOT DATE = 10-21-10

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CHECKED	—	AG	REVISED	—

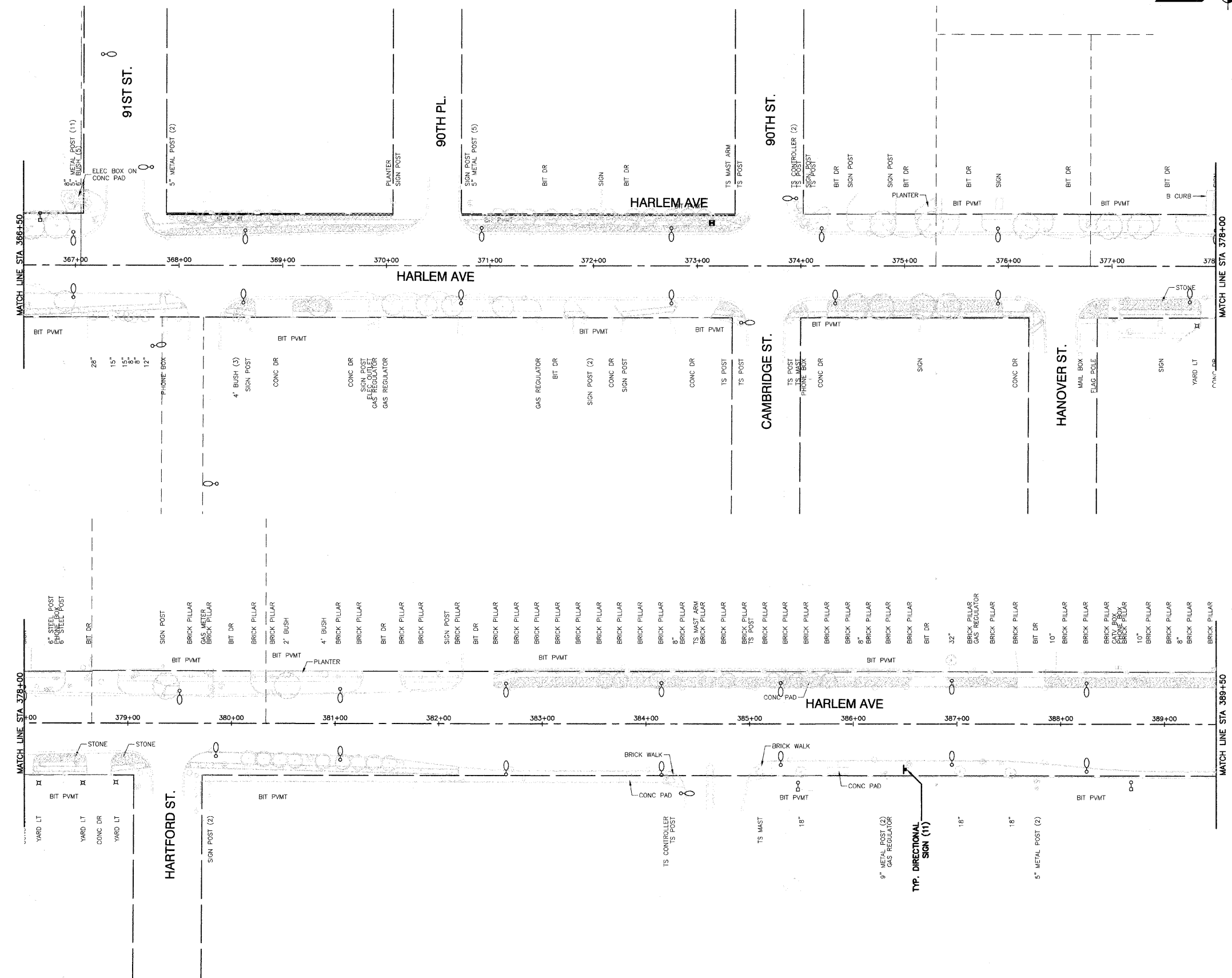
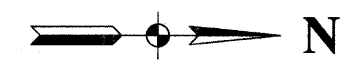
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HARLEM AVENUE BEAUTIFICATION  
 FROM SOUTHWEST HIGHWAY TO 65TH STREET  
 SIGNING PLAN**

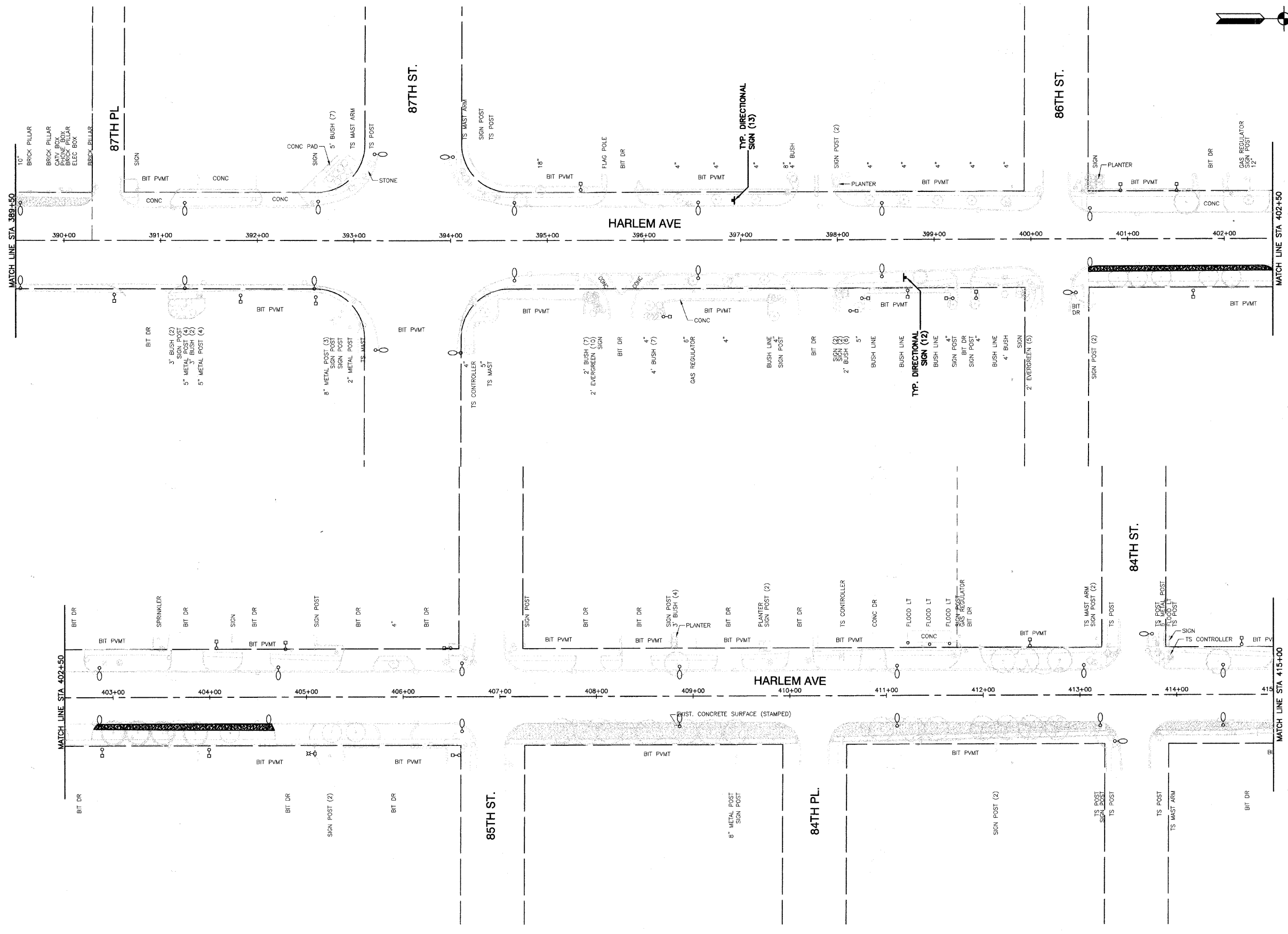
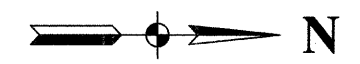
SCALE: 1"=50'    SHEET NO. 8    OF 55 SHEETS    STA. 342+00    TO STA. 366+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	07-00055-01-SG	COOK	55	8
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1    ILLINOIS    FED. AID PROJECT    HPP-3482(001)				





FILE NAME = 07441_02.PLAN 01 - P06	USER NAME =	DESIGNED — RJW	REVISED —	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HARLEM AVENUE BEAUTIFICATION FROM SOUTHWEST HIGHWAY TO 65TH STREET SIGNING PLAN</b>			F.A.U. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 9
	PLOT SCALE = 1"=50'	DRAWN — RG	REVISED —		SCALE: 1"=50'	SHEET NO. 9	OF 55 SHEETS	STA. 366+50	TO STA. 389+50	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HPP-3462(001)
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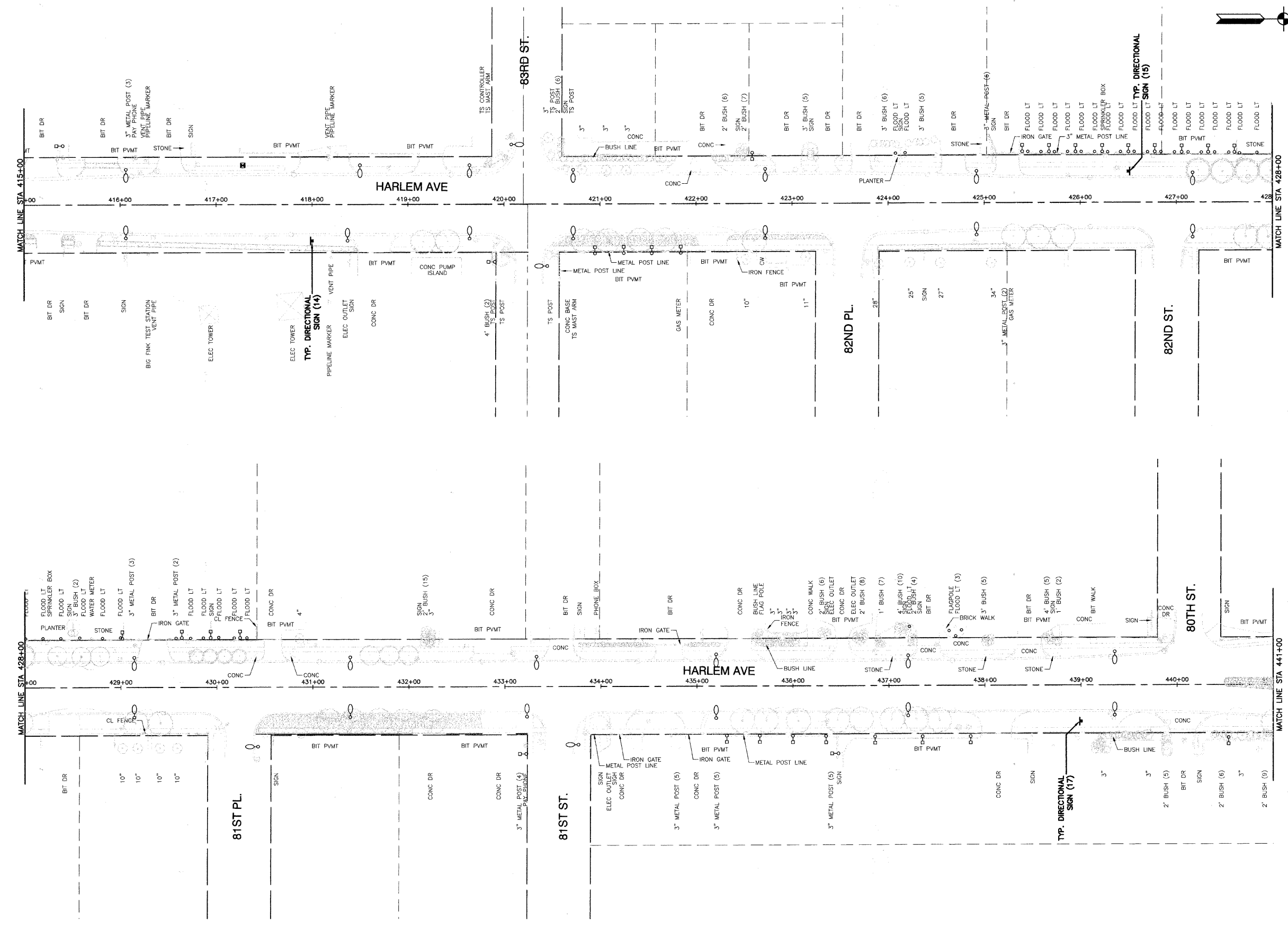
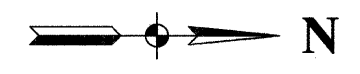
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PLOT DATE = 10-21-10	CHECKED - AG	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HARLEM AVENUE BEAUTIFICATION  
FROM SOUTHWEST HIGHWAY TO 65TH STREET  
SIGNING PLAN**

SCALE: 1"=50'      SHEET NO. 10 OF 55 SHEETS      STA. 389+50 TO STA. 415+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	07-00055-01-SG	COOK	55	10
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)				



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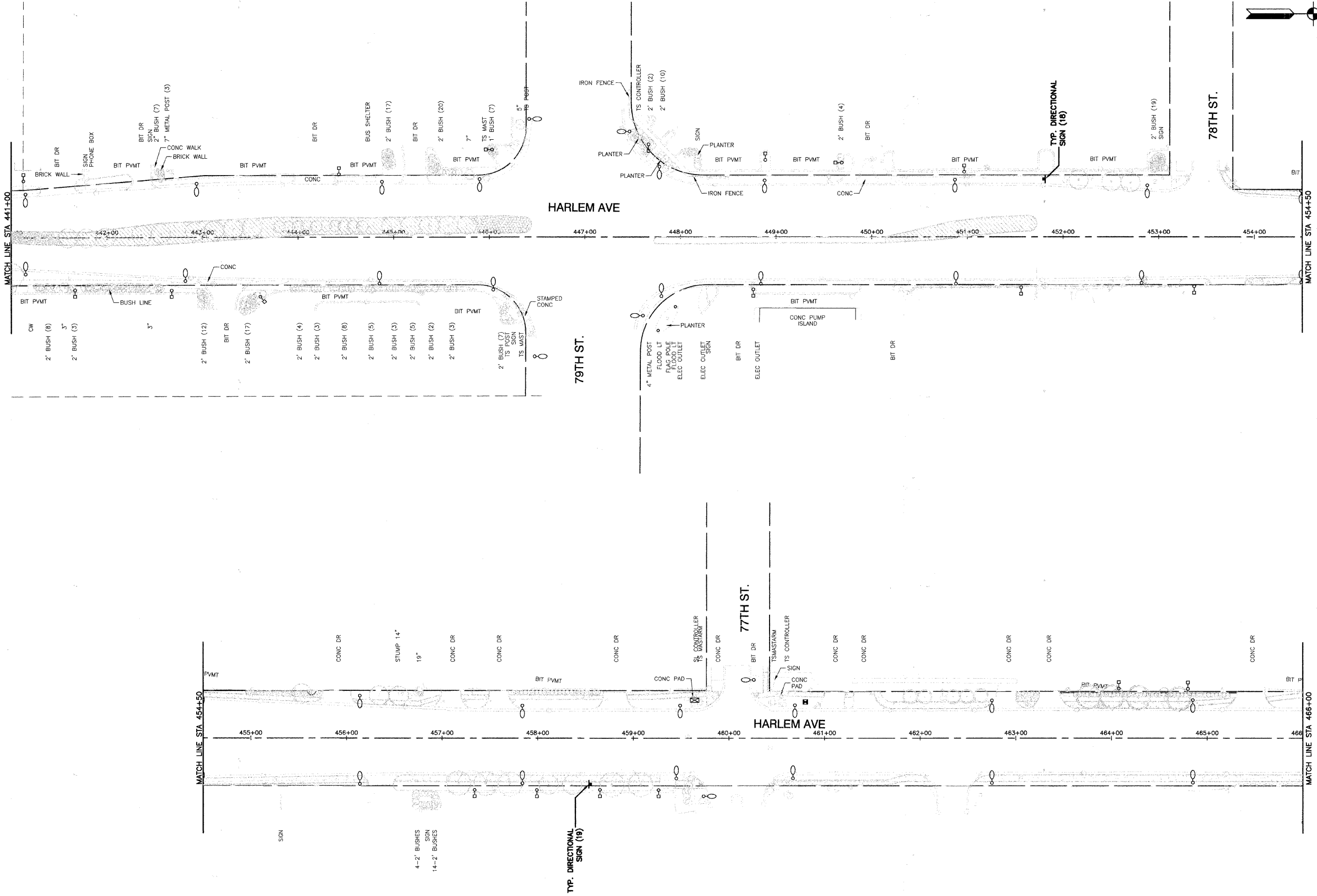
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HARLEM AVENUE BEAUTIFICATION  
 FROM SOUTHWEST HIGHWAY TO 65TH STREET  
 SIGNING PLAN**

SCALE: 1"=50'      SHEET NO. 11 OF 55 SHEETS      STA. 415+00 TO STA. 441+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	07-00055-01-SG	COOK	55	11
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)				



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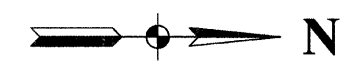
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CHECKED	—	PKB	REVISED	—
DRAWN	—	RG	REVISED	—
CHECKED	—	AG	REVISED	—

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

**HARLEM AVENUE BEAUTIFICATION**  
**FROM SOUTHWEST HIGHWAY TO 65TH STREET**  
**SIGNING PLAN**

SCALE: 1"=50'    SHEET NO. 12 OF 55 SHEETS    STA. 441+00 TO STA. 466+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	07-00055-01-SG	COOK	55	12
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)				



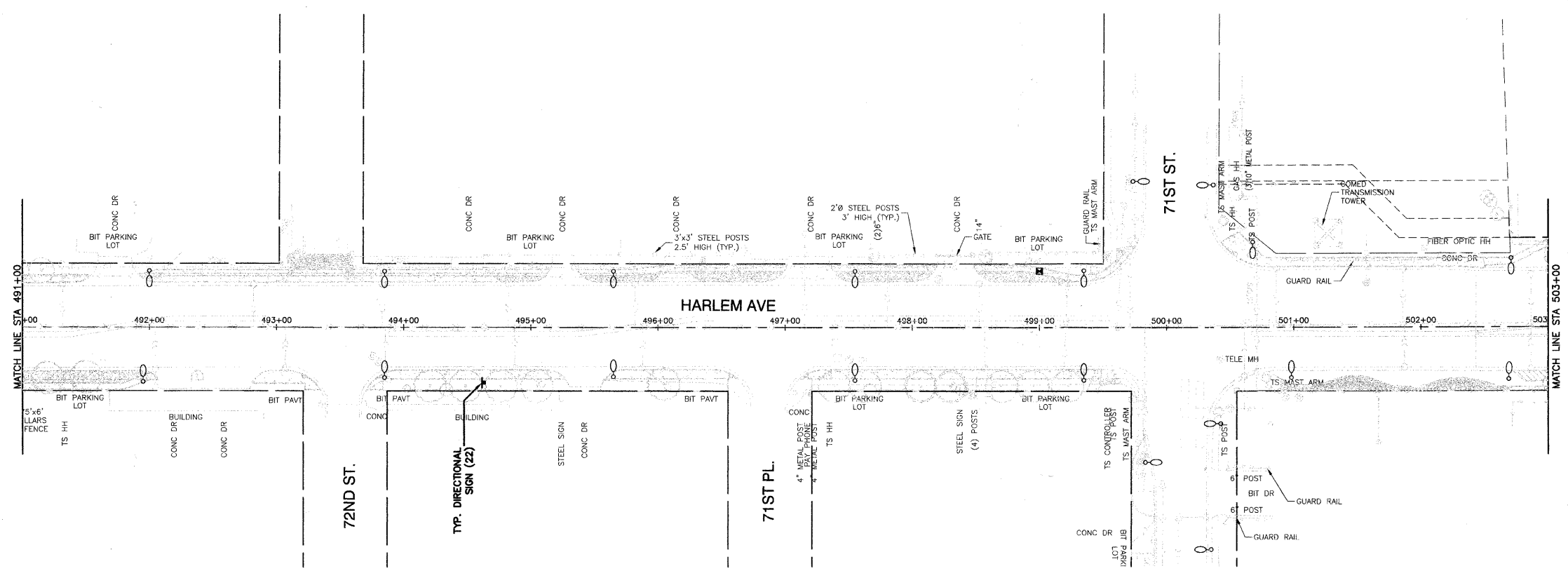
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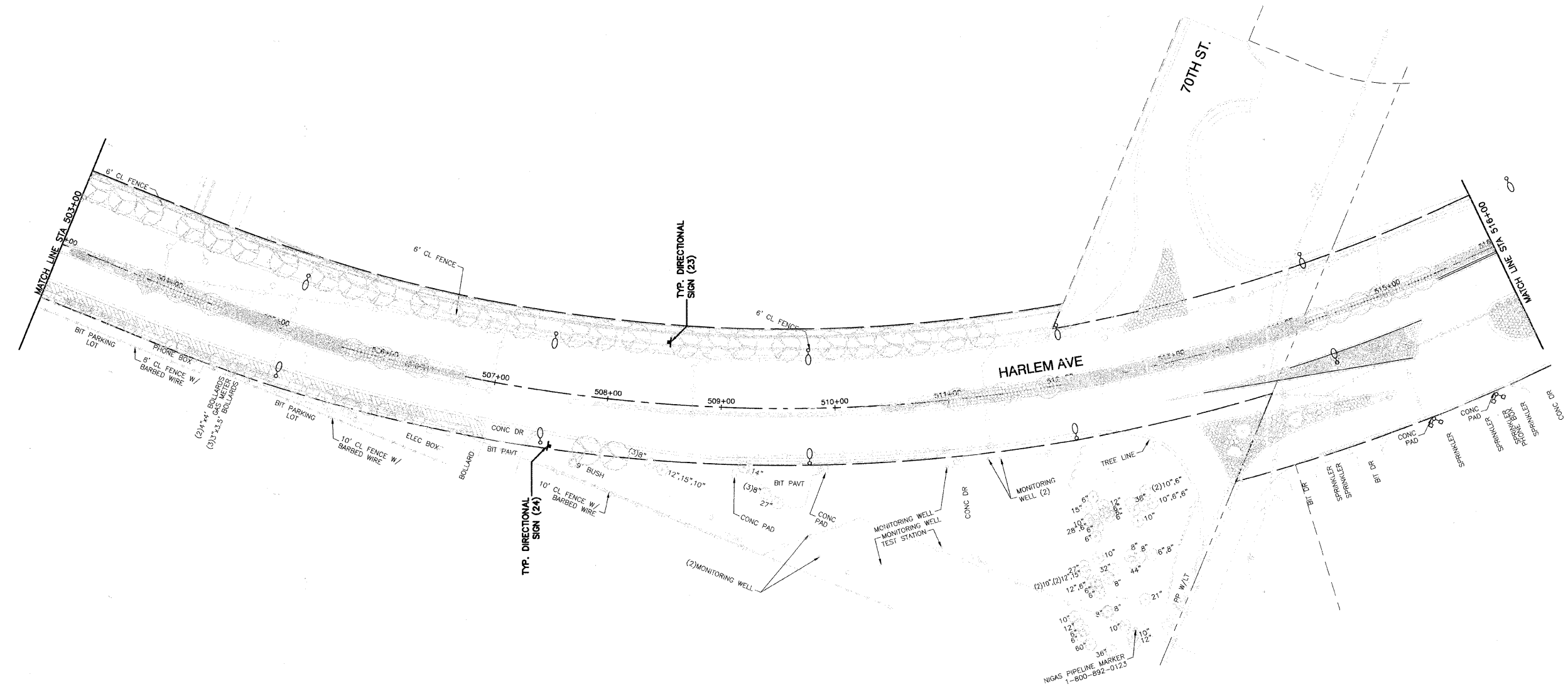
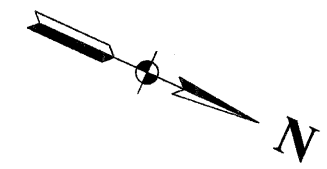
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>HARLEM AVENUE BEAUTIFICATION FROM SOUTHWEST HIGHWAY TO 65TH STREET SIGNING PLAN</b>			
SCALE: 1"=50'	SHEET NO. 13	OF 55 SHEETS	STA. 466+00 TO STA. 491+00

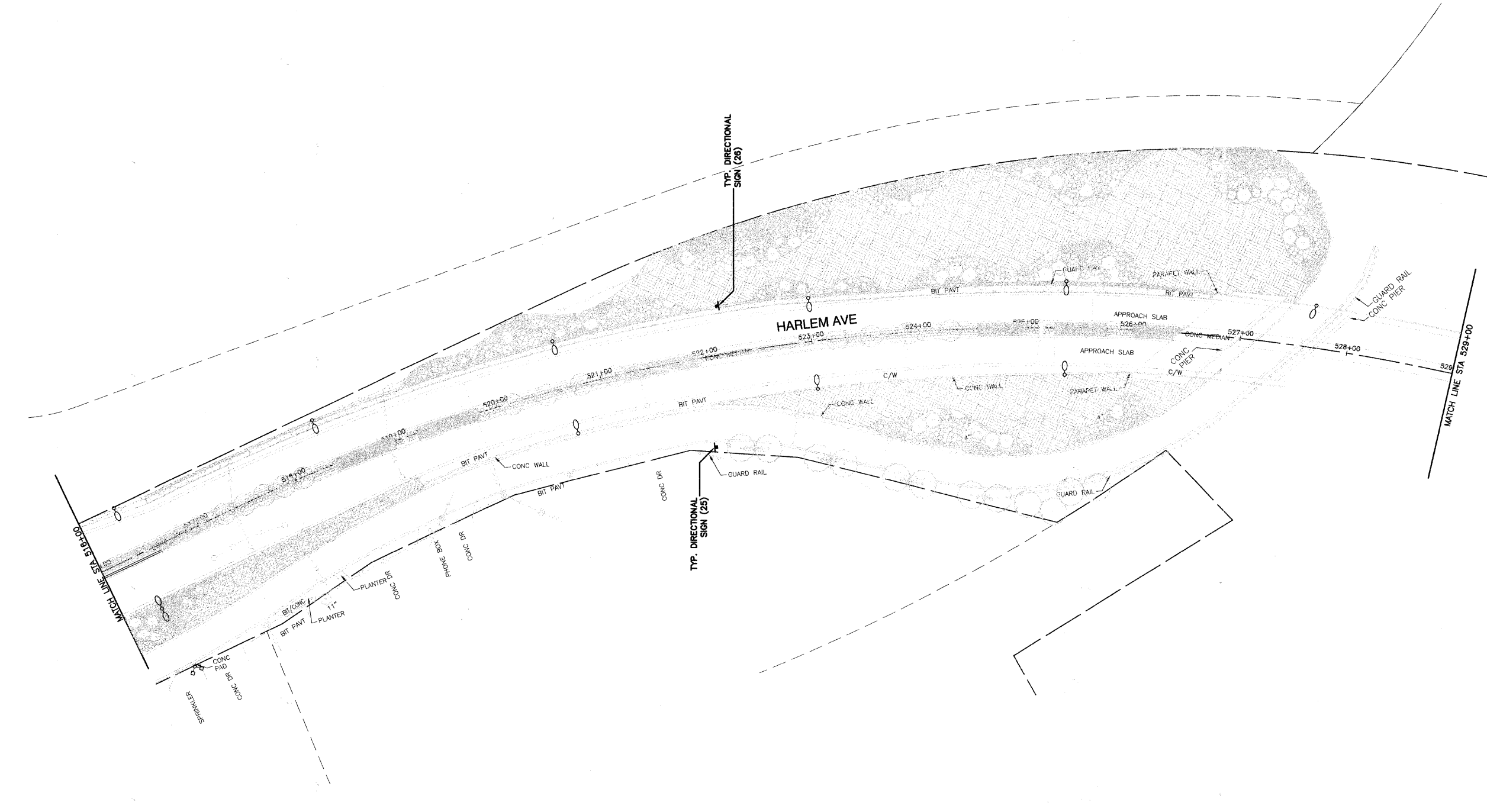
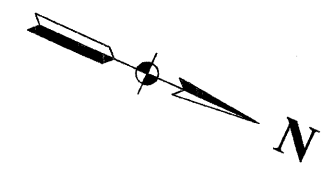
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	07-00055-01-SG	COOK	55	13
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)				



FILE NAME = 07441_02-PLAN-01 - P10 PLOT SCALE = 1"=50' PLOT DATE = 10-21-10	USER NAME = _____ DESIGNED — RJW CHECKED — PKB	REVISED — _____ REVISED — _____	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>HARLEM AVENUE BEAUTIFICATION</b> <b>FROM SOUTHWEST HIGHWAY TO 65TH STREET</b> <b>SIGNING PLAN</b>		F.A.U. RTE. 348 SECTION 07-00055-01-SG COUNTY COOK TOTAL SHEETS 55 SHEET NO. 14	CONTRACT NO. 63510
	DRAWN — RG CHECKED — AG	REVISED — _____ REVISED — _____		SCALE: 1"=50' SHEET NO. 14 OF 55 SHEETS STA. 491+00 TO STA. 503+00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)		



FILE NAME = 07441_02-PLAN-01 - P11	USER NAME =	DESIGNED — RJW	REVISED —	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>HARLEM AVENUE BEAUTIFICATION</b> <b>FROM SOUTHWEST HIGHWAY TO 65TH STREET</b> <b>SIGNING PLAN</b>		F.A.U. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 15	
	PLOT SCALE = 1"=50'	DRAWN — RG	REVISED —		SCALE: 1"=50'	SHEET NO. 15 OF 55 SHEETS	STA. 503+00 TO STA. 516+00	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HPP-3462(001)	CONTRACT NO. 63510	
	PLOT DATE = 10-21-10	CHECKED — AG	REVISED —									



FILE NAME = 07441\_02-PLAN 01 - P12  
 USER NAME =  
 PLOT SCALE = 1"=50'  
 PLOT DATE = 10-21-10

DESIGNED — RJW	REVISED —
CHECKED — PKB	REVISED —
DRAWN — RG	REVISED —
CHECKED — AG	REVISED —

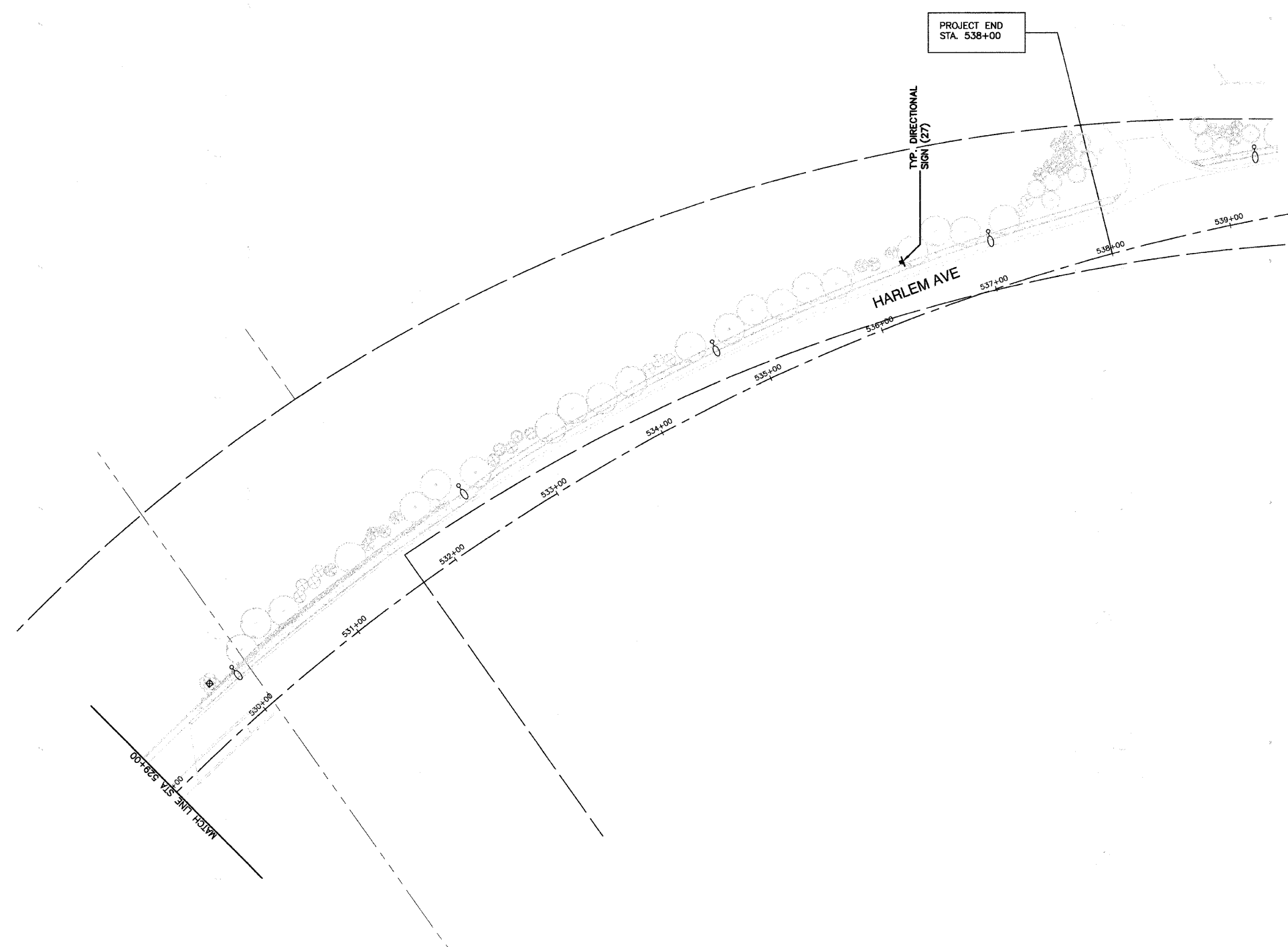
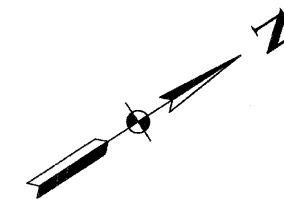
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HARLEM AVENUE BEAUTIFICATION  
 FROM SOUTHWEST HIGHWAY TO 65TH STREET  
 SIGNING PLAN**

SCALE: 1"=50'      SHEET NO. 16 OF 55 SHEETS      STA. 516+00 TO STA. 529+00

F.A.U. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 16
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT HPP-3482(001)		
CONTRACT NO. 63510				





FILE NAME = 07441\_02-PLAN-01 - P13

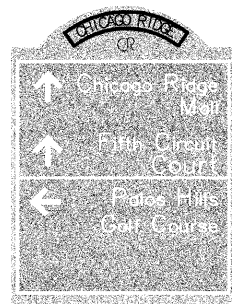
USER NAME =	DESIGNED -- RJW	REVISED --
	CHECKED -- PKB	REVISED --
PLOT SCALE = 1"=50'	DRAWN -- RG	REVISED --
PLOT DATE = 10-21-10	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>HARLEM AVENUE BEAUTIFICATION FROM SOUTHWEST HIGHWAY TO 65TH STREET SIGNING PLAN</b>			
SCALE: 1"=50'	SHEET NO. 17 OF 55 SHEETS	STA. 529+00 TO STA. 539+50	

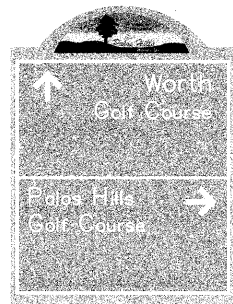
F.A.U. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 17
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT HPP-3462(001)		

DATE PLOTTED: 11/10/10 10:58 AM



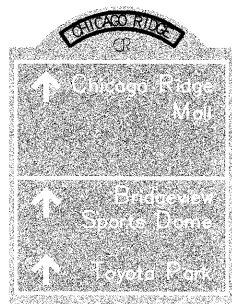
1

STA 274+00, 7.5' RT OF BOC  
CHICAGO RIDGE



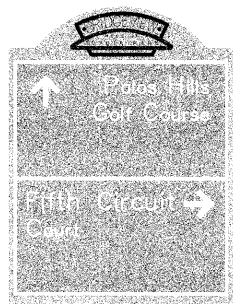
2

STA 277+15, 4' LT OF BOC  
PALOS HILLS



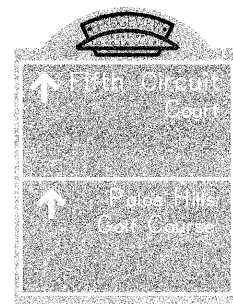
3

STA 294+46, 10' RT OF BOC  
CHICAGO RIDGE



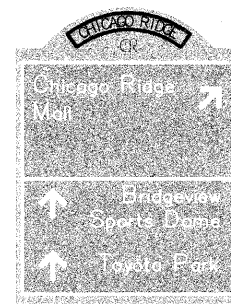
4

STA 302+38, 11.5' LT OF BOC



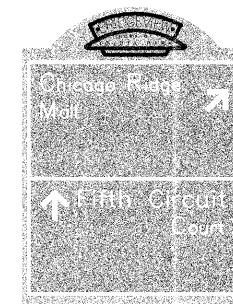
6

STA 326+00, 10' LT OF BOC



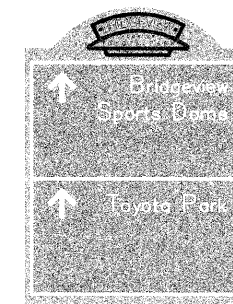
7

STA 326+00, 10' RT OF BOC  
CHICAGO RIDGE



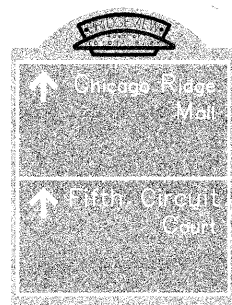
8

STA 344+50, 10' LT OF BOC



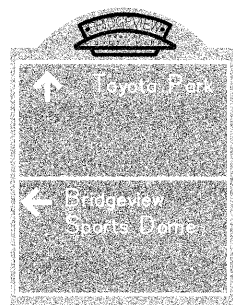
9

STA 361+20, 8' RT OF BOC



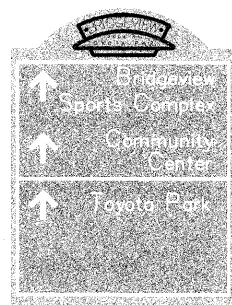
10

STA 362+57, 10' LT OF BOC



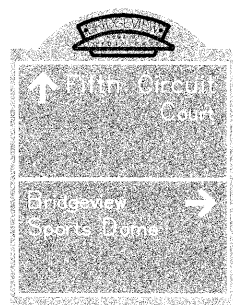
11

STA 386+50, 8' RT OF BOC



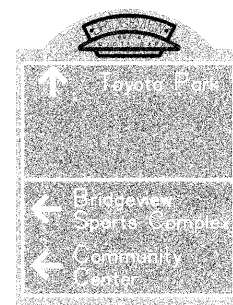
12

STA 398+10, 5.5' RT OF BOC



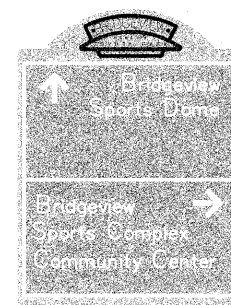
13

STA 396+92, 5.5' LT OF BOC



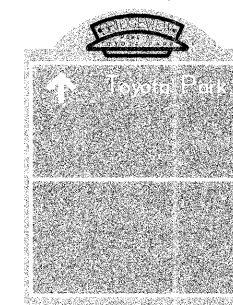
14

STA 418+00, 5.5' RT OF BOC



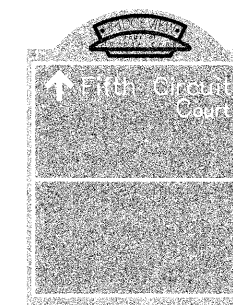
15

STA 426+50, 5' LT OF BOC



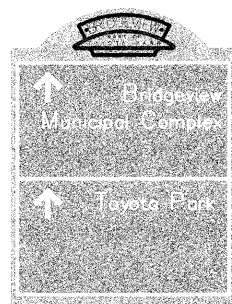
17

STA 439+00, 10' RT OF BOC



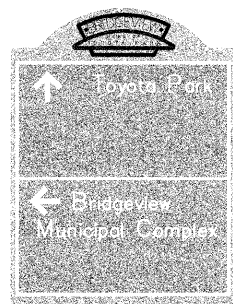
18

STA 451+80, 5' LT OF BOC



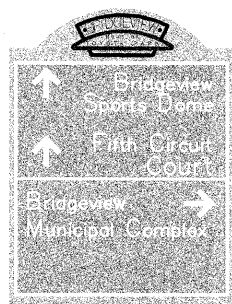
19

STA 458+55, 9.5' RT OF BOC



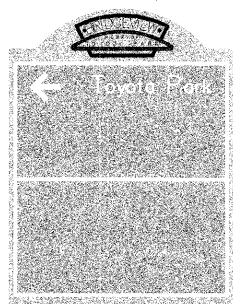
20

STA 468+50, 9' RT OF BOC



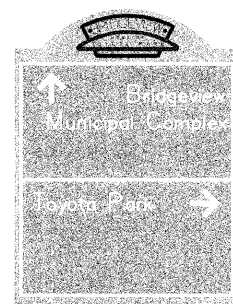
21

STA 477+63, 10' LT OF BOC



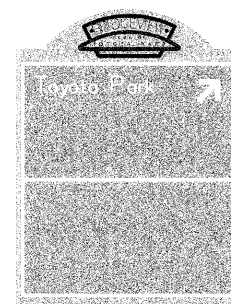
22

STA 494+63, 10' RT OF BOC



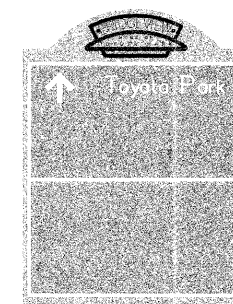
23

STA 508+50, 8' LT OF BOC



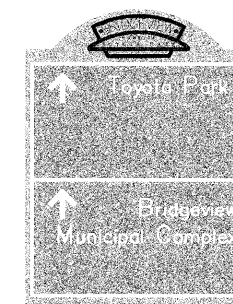
24

STA 507+55, 10' RT OF BOC



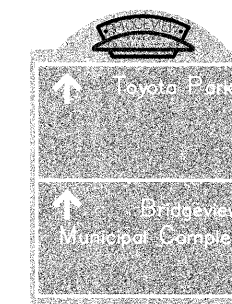
25

ALONG EAST FRONTAGE ROAD  
5' RT OF BOC



26

STA 522+18, 12' LT OF BOC



27

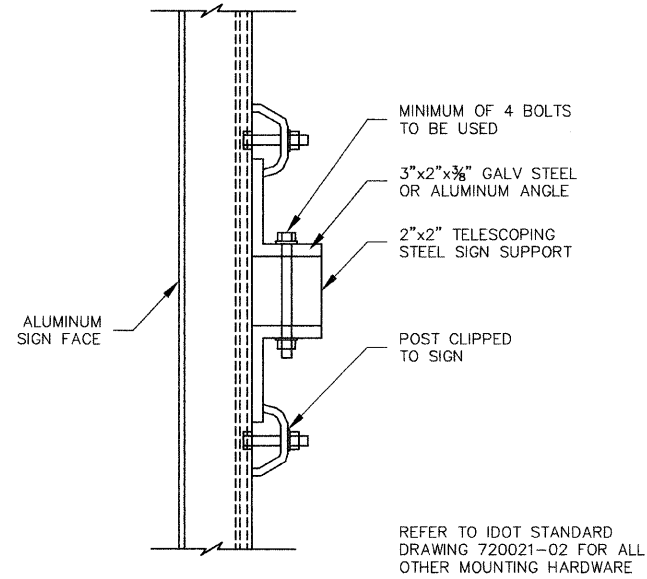
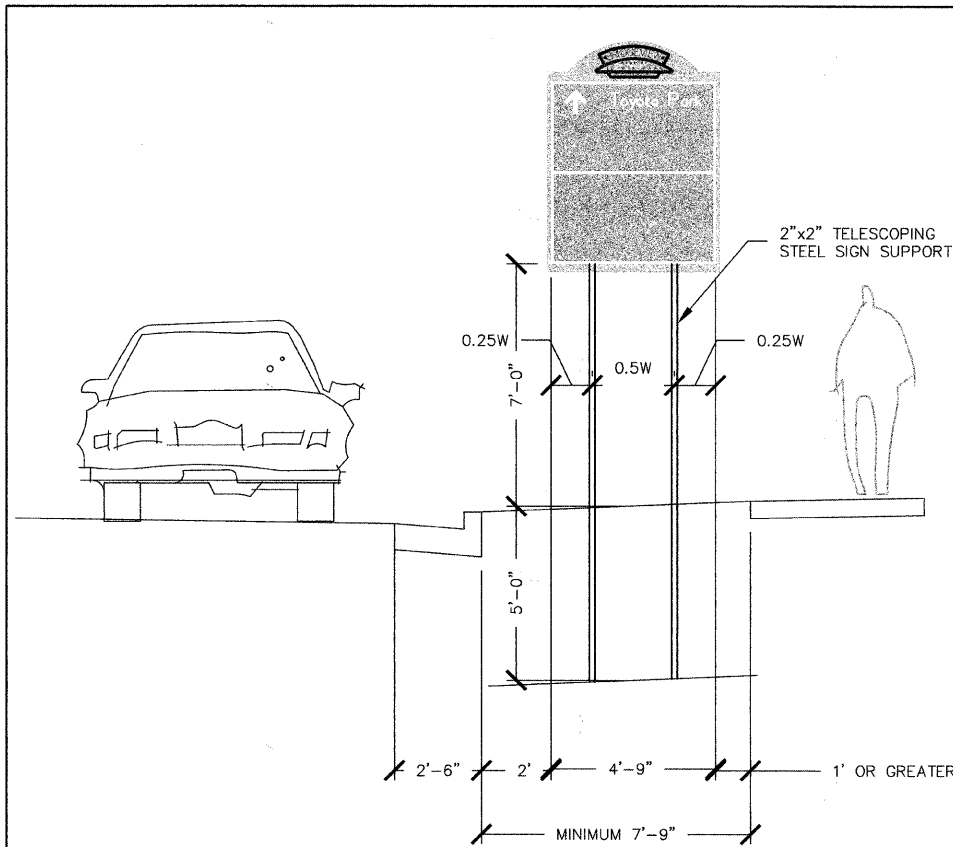
STA 536+35, 12' LT OF BOC

① Typical Village Directional Sign  
Scale: 1/2"=1'-0"

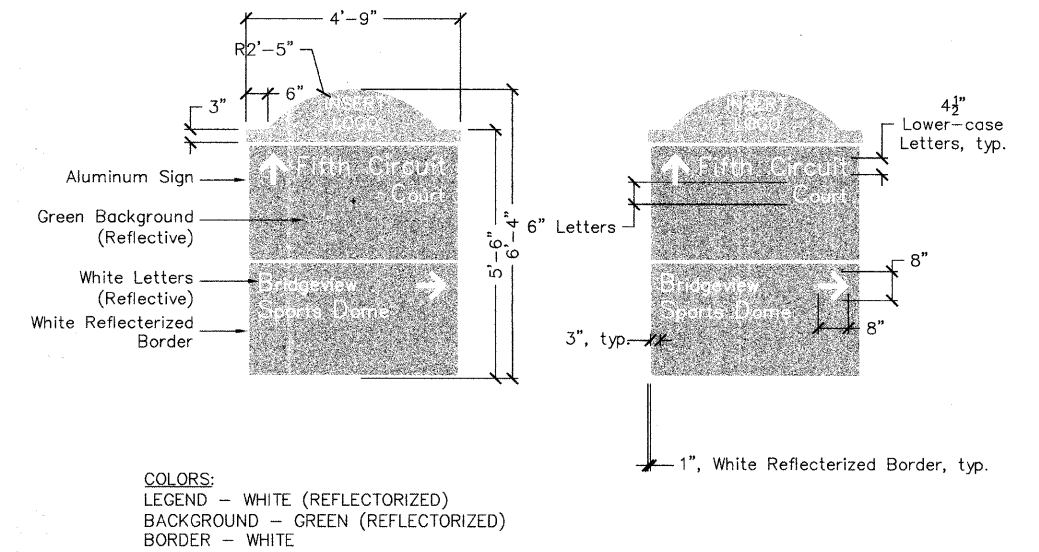
NOTES: SEE SHEET 19 FOR SIGNAGE NOTES

FILE NAME = 07441_02-DTIS-01-JHP PLOTTER - P03	USER NAME =	DESIGNED - MRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HARLEM AVENUE BEAUTIFICATION FROM SOUTHWEST HIGHWAY TO 65TH STREET SIGNING DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = NA	CHECKED - PKB	REVISED -			348	07-0055-01-SG	COOK	55	18
	PLOT DATE = 10-21-10	DRAWN - RG	REVISED -			CONTRACT NO. 63510				
		CHECKED - AG	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)				

SCALE: NA SHEET NO. 18 OF 55 SHEETS STA. 105TH ST TO STA. 289+50



Sign Panel Attachment to Telescoping Steel Sign Support



COLORS:  
LEGEND - WHITE (REFLECTORIZED)  
BACKGROUND - GREEN (REFLECTORIZED)  
BORDER - WHITE

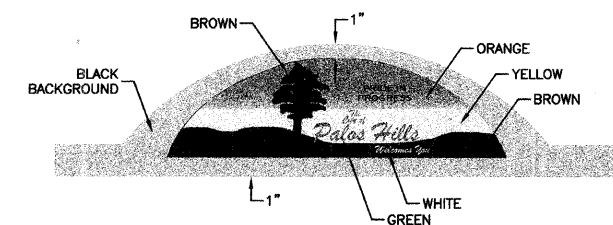
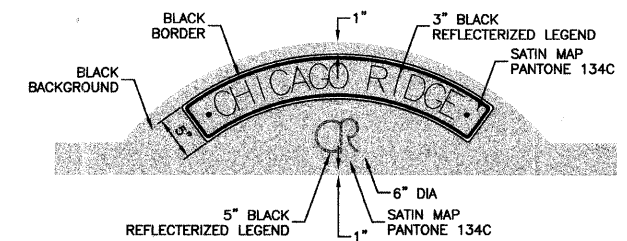
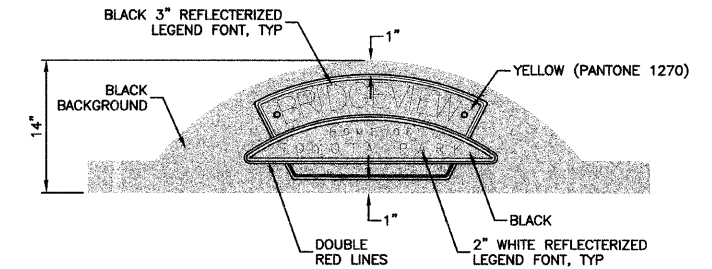
Scale: 1/2"=1'-0"

Scale: 1/2"=1'-0"

3 Typical Village Directional Sign  
Scale: As Shown

NOTES:

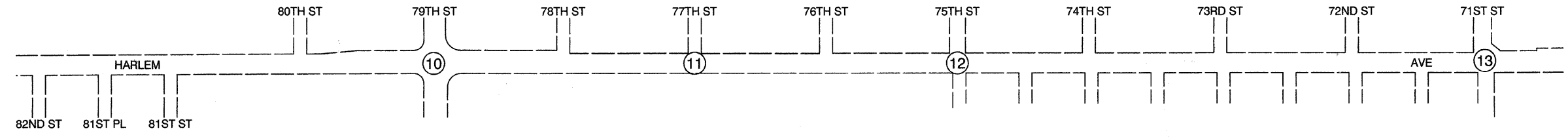
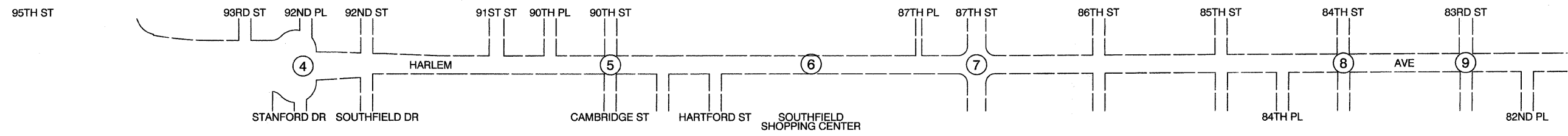
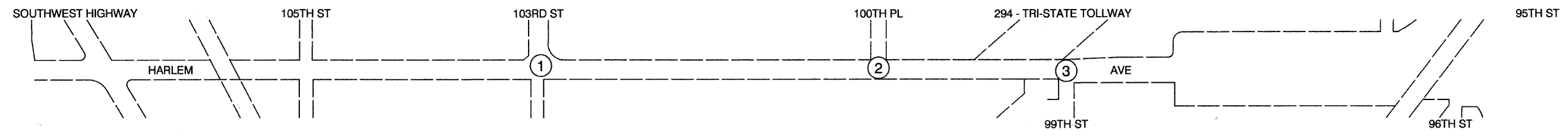
- 1.) REFER TO DIVISION 700 - IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR IMPORTANT INFORMATION REGARDING REMOVAL OF EXISTING SIGNS, FURNISHING NEW SIGNS, SIGN FABRICATION, AND/OR SIGN PANEL INSTALLATION.
- 2.) THE CONTRACTOR SHALL ASSUME ALL STRUCTURAL AND MANUFACTURING RESPONSIBILITY FOR DURABILITY AND INTEGRITY OF ALL SIGN ELEMENTS, INCLUDING WIND LOAD CALCULATIONS AND MOUNTING/CONNECTIONS. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR STRUCTURAL DURABILITY.
- 3.) THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL SPECIFICATIONS PRIOR TO COMMENCEMENT OF WORK. ANY QUESTIONS OR CONCERNS SHALL BE DIRECTED TO PROJECT ENGINEER, IN WRITING, PRIOR TO SIGN FABRICATION/INSTALLATION.
- 4.) THE LETTERING FONT STYLE SHALL BE ACCORDING TO SECTION 2D.06 OF THE M.U.T.C.D. MANUAL AND APPROVED BY THE ENGINEER.
- 5.) THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO PROJECT ENGINEER FOR ALL FABRICATED COMPONENTS AND INSTALLATION OF THESE ELEMENTS.
- 6.) ALL GRAPHIC LAYOUT INCLUDING LOGOS, DIRECTIONAL LABELS/ARROWS, AND STREET NAMES FOR EACH SIGN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. NOTE THAT SIGN LOCATIONS ARE SHOWN IN EACH MUNICIPALITY AND ENGINEER WILL NEED TO COORDINATE WITH EACH MUNICIPALITY.
- 7.) STREET AND DIRECTIONAL SIGNS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST REVISION OF THE FEDERAL HIGHWAY STANDARDS MANUAL AND THE M.U.T.C.D MANUAL PUBLICATION.
- 8.) TELESOPING STEEL SIGN SUPPORTS SHALL BE PAINTED BLACK (POWDER COAT) PER SPECIAL PROVISIONS.



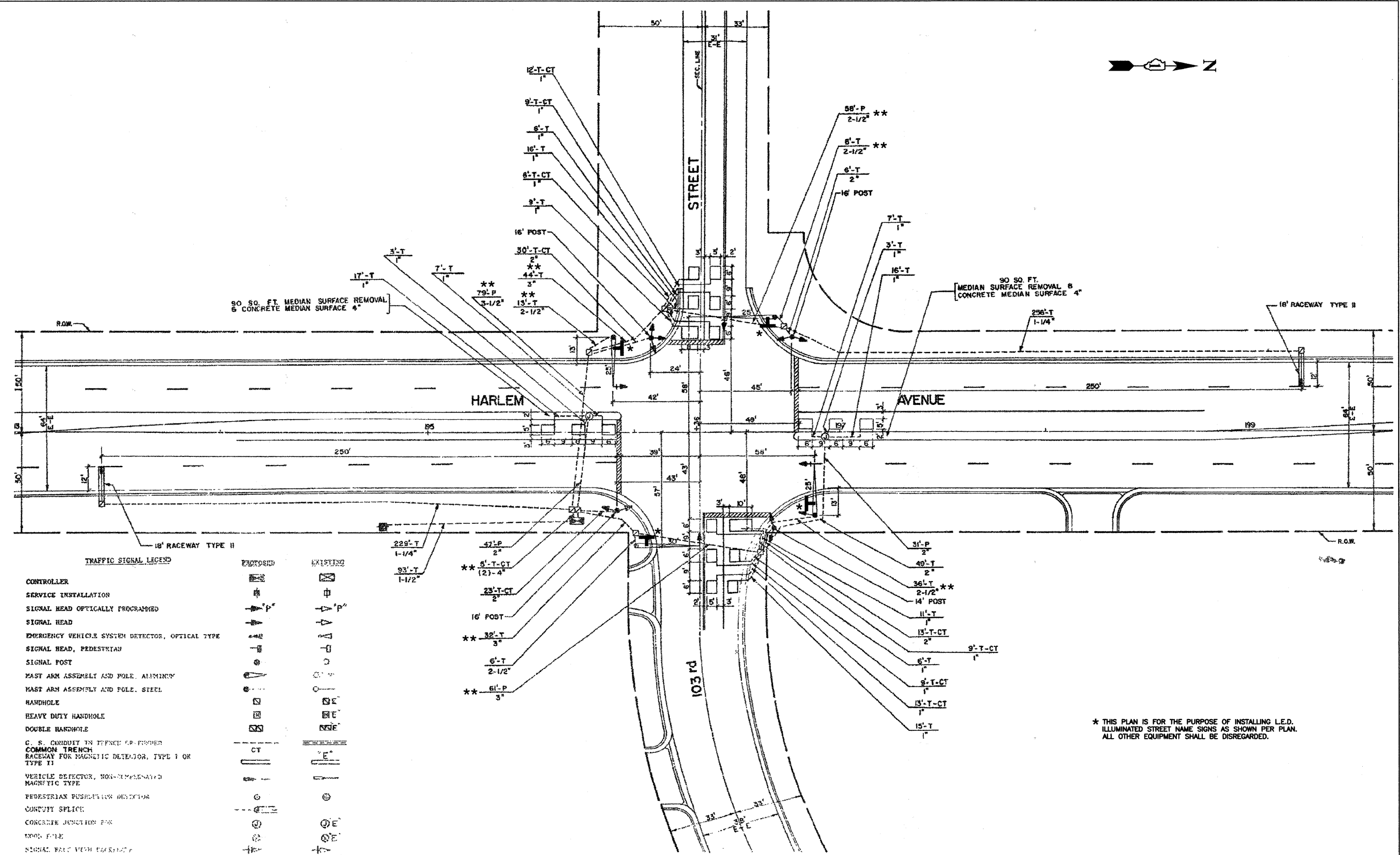
Typical Village Logo Signs

\*ALL COLORS TO BE APPROVED BY CITY/VILLAGES PRIOR TO MAKING SIGN

FILE NAME = 07441_02-DTLS-01_JHP PLOTTER - P01	USER NAME =	DESIGNED - MRS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	HARLEM AVENUE BEAUTIFICATION FROM SOUTHWEST HIGHWAY TO 65TH STREET SIGNING DETAILS			F.A.U. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 19	
	PLOT SCALE = NA	CHECKED - PKB	REVISED -		SCALE: 1"=50'	SHEET NO. 19	OF 55 SHEETS	STA. TO STA.	CONTRACT NO. 63510				
	PLOT DATE = 10-21-10	DRAWN - RG	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT HPP-3462(001)								
		CHECKED - AG	REVISED -										



FILE NAME = 07441_02.LCTN 01 - IDOT P01	USER NAME =	DESIGNED - MRS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HARLEM AVENUE BEAUTIFICATION ILLUMINATED STREET SIGN LOCATION MAP</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - PKB	REVISED -					348	07-00055-01-SG	COOK	55	20
	PLOT DATE = 10-21-10	DRAWN - RG	REVISED -					CONTRACT NO. 63510				
		CHECKED - AG	REVISED -					SCALE: NONE SHEET NO. 20 OF 55 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3482(001)				



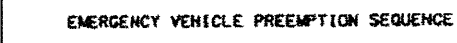
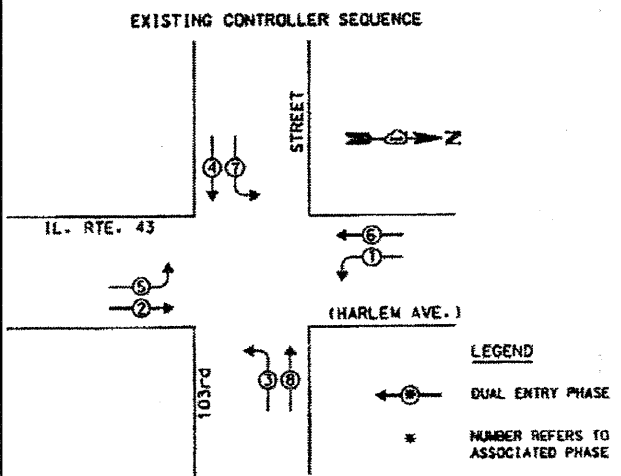
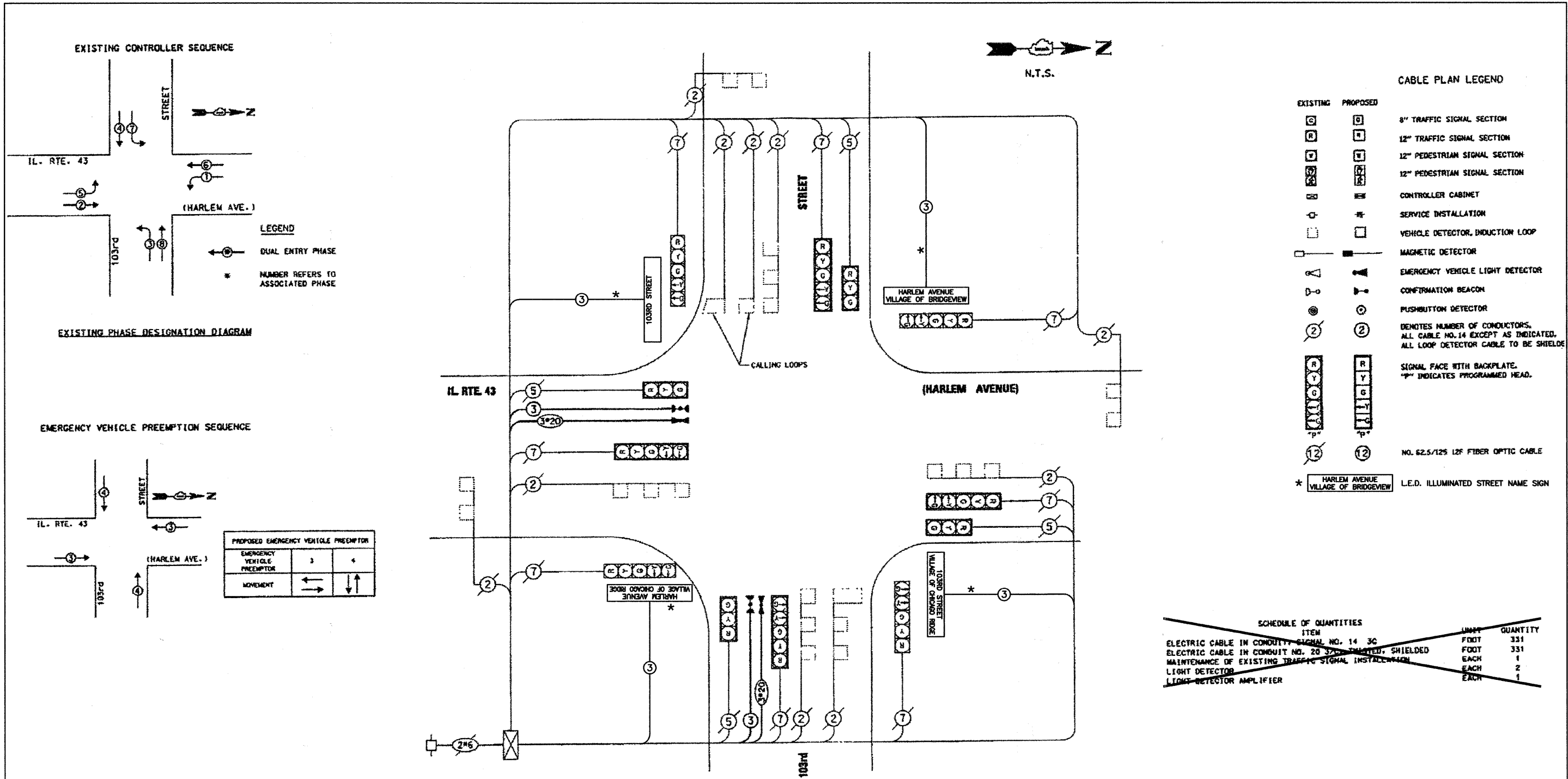
**TRAFFIC SIGNAL LEGEND**

	EXISTING	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD OPTICALLY PROGRAMMED		
SIGNAL HEAD		
EMERGENCY VEHICLE SYSTEM DETECTOR, OPTICAL TYPE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
C. S. CONDUIT IN TRENCH OR FINISHED COMMON TRENCH		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON-MAGNETIC MAGNETIC TYPE		
PEDESTRIAN PUSHBUTTON DETECTOR		
CONDUIT SPLICE		
CONCRETE JUNCTION BOX		
WOOD POLE		
SIGNAL HEAD WITH ELECTRIC		
L.E.D. ILLUMINATED STREET NAME SIGN		
CONDUIT USED FOR ILLUMINATED STREET NAME SIGN CABLE	**	**

\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 1

FILE NAME = 0741_02_PLAN-SIGN-01 - 1DOT P29	USER NAME =	DESIGNED - MRS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HARLEM AVENUE BEAUTIFICATION TRAFFIC SIGNAL MODIFICATION PLAN IL ROUTE 43 (HARLEM AVE) AND 103RD STREET</b>	F.A.P. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 21	
PLOT SCALE =	DRAWN - RG	REVISOR -	REVISOR -			CONTRACT NO. 63510					
PLOT DATE = 10-21-10	CHECKED - AG	REVISOR -	REVISOR -			SCALE: 1"=20'					
						SHEET NO. 21 OF 55 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)	



**PROPOSED EMERGENCY VEHICLE PREEMPTOR**

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
[Symbol]	[Symbol]	NO. 52.5/125 12F FIBER OPTIC CABLE
[Symbol]	[Symbol]	HARLEM AVENUE VILLAGE OF BRIDGEVIEW
[Symbol]	[Symbol]	L.E.D. ILLUMINATED STREET NAME SIGN

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	331
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, UNARMED, SHIELDED	FOOT	331
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1

**\* SCHEDULE OF QUANTITIES**

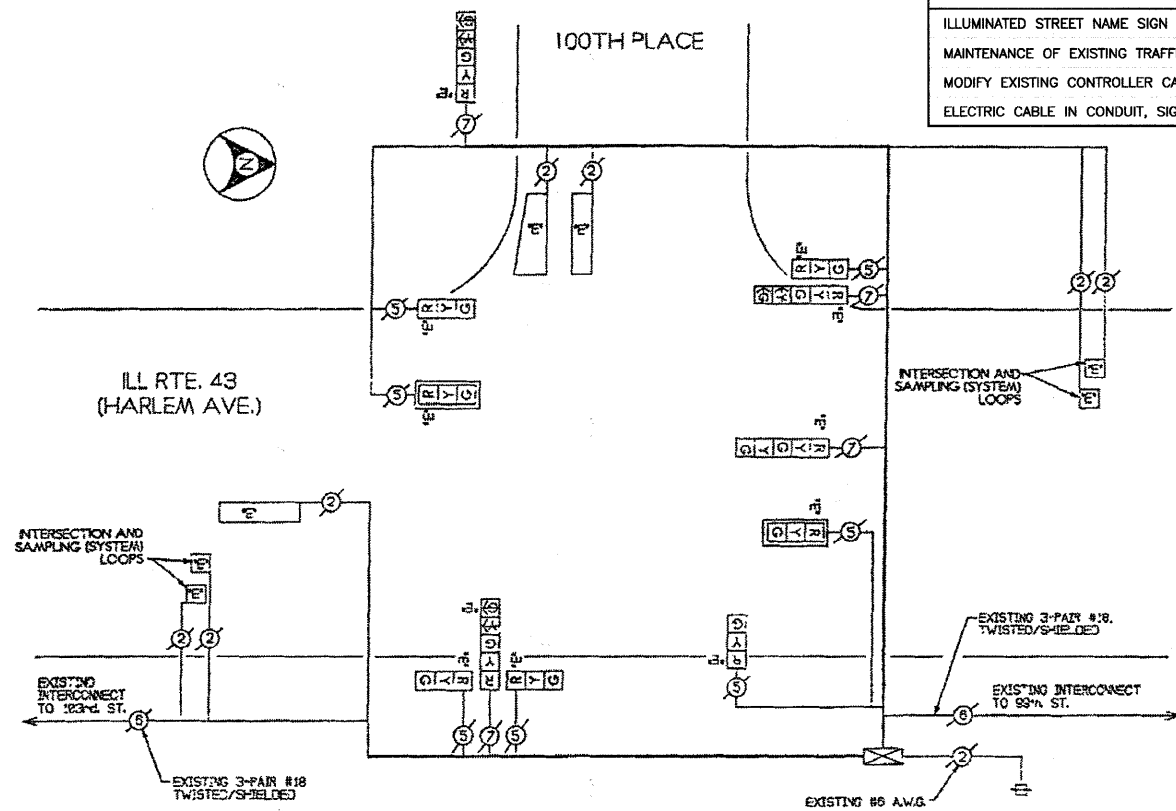
ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	672

\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 1

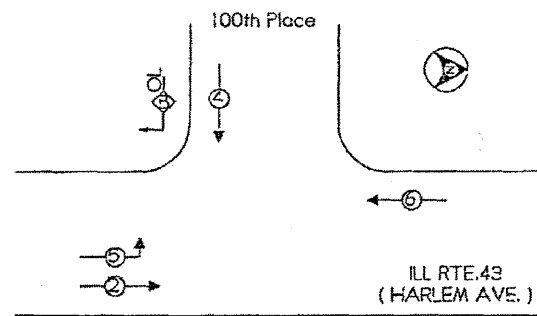


EXISTING CABLE DIAGRAM



EXISTING SEQUENCE OF OPERATIONS

- CONTROLLER SEQUENCE -  
REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



**LEGEND**  
 ⊕ - DUAL ENTRY PHASE  
 ⊕ - OVERLAP  
 ⊕ - PEDESTRIAN PHASE  
 # NUMBER REFERS TO ASSOCIATED PHASE.

**PHASE DESIGNATION DIAGRAM**  
 DUAL ENTRY - ALL LEGS  
 PROTECTED/PERMITTED LEFT TURN PHASING  
 WITH RIGHT TURN OVERLAPS

**RIGHT TURN OVERLAP PHASE DESIGNATION NOTES**  
 FOR DUAL ENTRY OPERATION-ALL LEGS

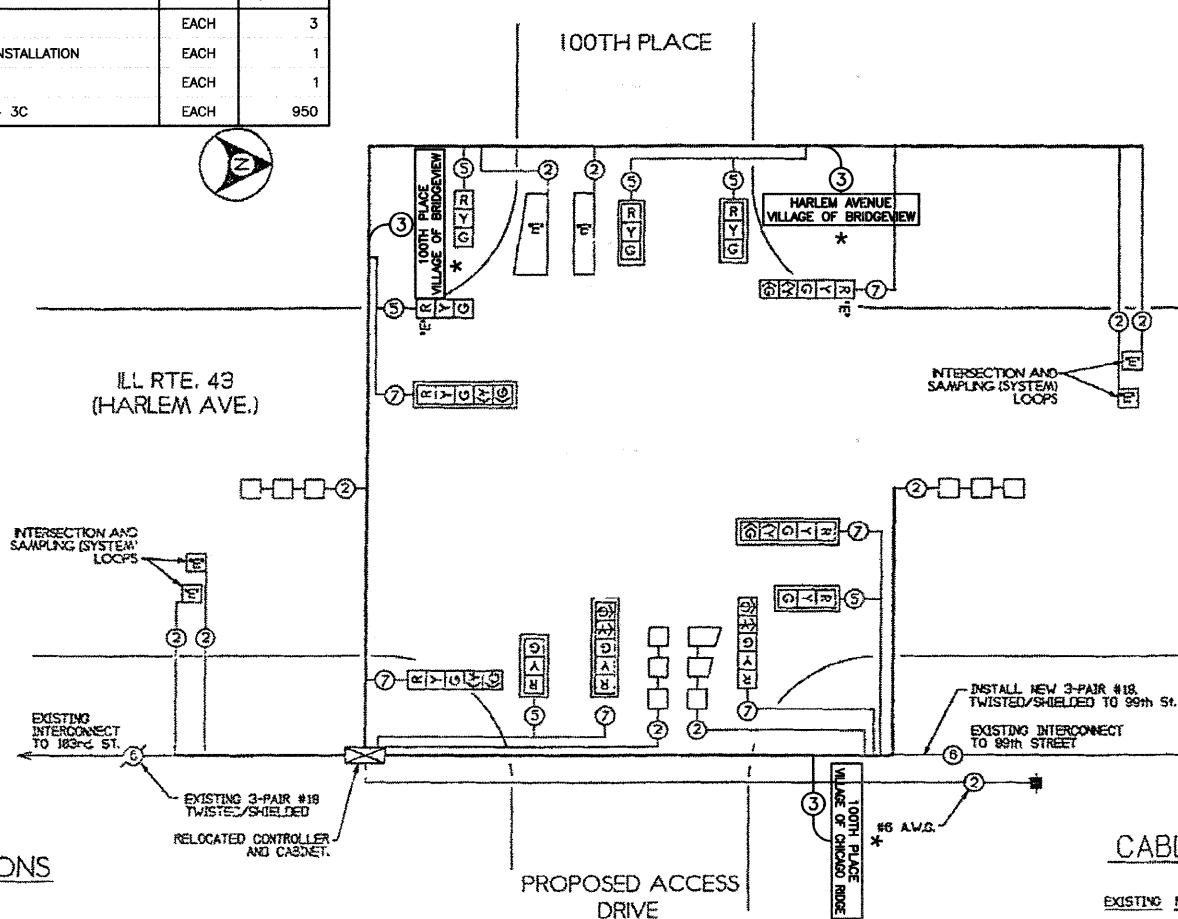
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	-	4 + 5

**NOTE**  
 PHASE #7 DETECTORS SHALL PLACE CALLS INTO PHASE #4 AND #7.

\* SCHEDULE OF QUANTITIES

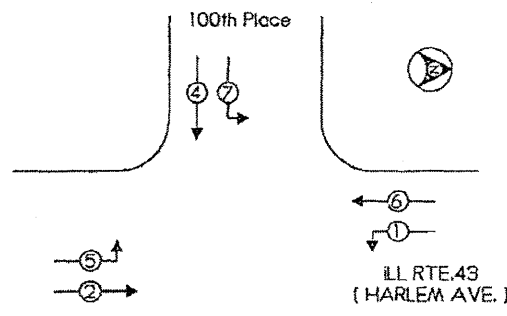
ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	950

PROPOSED CABLE DIAGRAM



PROPOSED SEQUENCE OF OPERATIONS

- CONTROLLER SEQUENCE -  
REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



**LEGEND**  
 ⊕ - DUAL ENTRY PHASE  
 ⊕ - OVERLAP  
 ⊕ - PEDESTRIAN PHASE  
 # NUMBER REFERS TO ASSOCIATED PHASE.

**PHASE DESIGNATION DIAGRAM**  
 DUAL ENTRY - ALL LEGS  
 PROTECTED/PERMITTED LEFT TURN PHASING

SCHEDULE OF QUANTITIES

135	FOOT	SIGN PANEL, TYPE 1	1898	FOOT	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 14, 3-PAIR
1	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED	1	FOOT	SERVICE INSTALLATION, TYPE D
2	EACH	SIGNAL HEAD, 1-FACE, 2-SECTION, BRACKET MOUNTED	8	FOOT	CONCRETE FOUNDATION, TYPE A
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED	4	FOOT	CONCRETE FOUNDATION, TYPE D
3	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED	10	FOOT	CONCRETE FOUNDATION, TYPE E, 24" DIAMETER
7	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED	38	FOOT	CONCRETE FOUNDATION, TYPE E, 30" DIAMETER
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	3	EACH	HANDHOLE
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	1	EACH	HEAVY-DUTY HANDHOLE
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	1	EACH	DOUBLE HANDHOLE
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	800	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
3	EACH	INDUCTIVE LOOP DETECTOR	1	L.S.	TRAFFIC CONTROL AND PROTECTION
320	FOOT	DETECTOR LOOP, TYPE 1	4	EACH	DRILL EXISTING HANDHOLE
569	FOOT	CONDUIT IN TRENCH, 2" DIA, GALVANIZED STEEL	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
128	FOOT	CONDUIT IN TRENCH, 2-1/2" DIA, GALVANIZED STEEL	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL
46	FOOT	CONDUIT IN TRENCH, 1" DIA, GALVANIZED STEEL	598	FOOT	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT
185	FOOT	CONDUIT PUSH-IN, 2" DIA, GALVANIZED STEEL	230	SUFT.	REMOVE AND REPLACE VEGETATION SURFACE
283	FOOT	CONDUIT PUSH-IN, 4" DIA, GALVANIZED STEEL	2640	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1378	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5/C	598	FOOT	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT
1878	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7/C	1	EACH	REMOVE EXISTING HANDHOLE
172	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2/C	4	EACH	REMOVE EXISTING CONCRETE FOUNDATION
2837	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1-PAIR	1	EACH	MODIFY EXISTING CONTROLLER
			1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
			1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
⊕	⊕	8" TRAFFIC SIGNAL SECTION
⊕	⊕	12" TRAFFIC SIGNAL SECTION
⊕	⊕	12" PEDESTRIAN SIGNAL SECTION
⊕	⊕	12" PEDESTRIAN SIGNAL SECTION
⊕	⊕	CONTROLLER CABINET
⊕	⊕	SERVICE INSTALLATION
⊕	⊕	VEHICLE DETECTOR, INDUCTIVE LOOP
⊕	⊕	MAGNETIC DETECTOR
⊕	⊕	EMERGENCY VEHICLE LIGHT DETECTOR
⊕	⊕	CONFIRMATION BEACON
⊕	⊕	PUSH-BUTTON DETECTOR
⊕	⊕	⊕ DENOTES NUMBER OF CONDUCTORS (NEW) ALL LOOP DETECTOR CABLE TO BE SHIELDED, ALL CABLE NO. 14 EXCEPT AS INDICATED.
⊕	⊕	⊕ SIGNAL FACE WITH BACKPLATE
⊕	⊕	* INDICATES PROGRAMMED HEAD
⊕	⊕	⊕ INDICATES EXISTING SIGNAL HEAD OR EXISTING PEDESTRIAN SIGNAL HEAD
⊕	⊕	* HARLEM AVENUE VILLAGE OF BRIDGEVIEW L.E.D. ILLUMINATED STREET NAME SIGN

\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 2

FILE NAME = 07441_02-PLAN-SIGN-01 - IDOT P28	USER NAME =	DESIGNED - MRS	REVISED -
		CHECKED - PKB	REVISED -
		DRAWN - RG	REVISED -
		CHECKED - AG	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

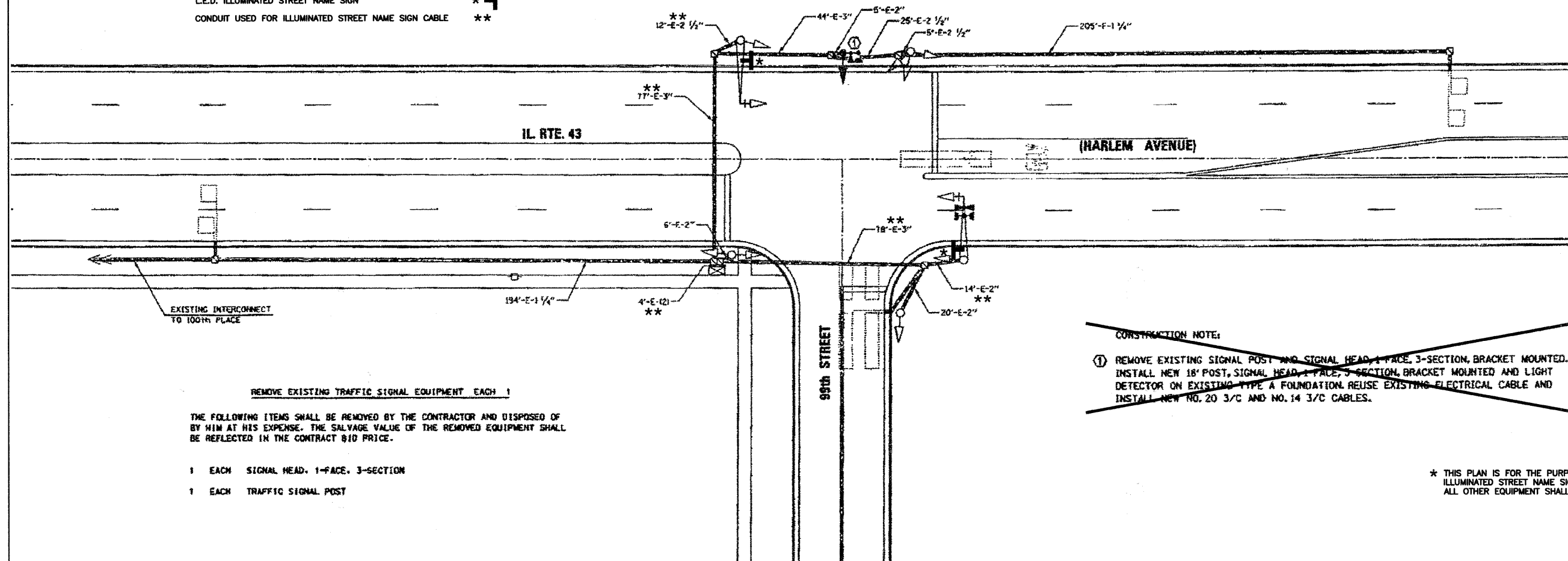
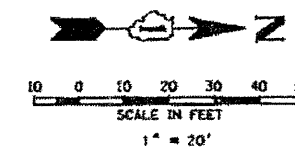
HARLEM AVENUE BEAUTIFICATION  
 CABLE PLAN, EMERGENCY VEHICLE PREEMPTION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES  
 IL ROUTE 43 (HARLEM AVE) AND 100TH PLACE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	07-00055-01-SG	COOK	55	24
CONTRACT NO. 63510				
SCALE: 1"=20'				
SHEET NO. 24 OF 55 SHEETS STA. TO STA.				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3482(001)				



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		
COMMON TRENCH		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
L.E.D. ILLUMINATED STREET NAME SIGN		
CONDUIT USED FOR ILLUMINATED STREET NAME SIGN CABLE		



CONSTRUCTION NOTE:  
 ① REMOVE EXISTING SIGNAL POST AND SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED. INSTALL NEW 18' POST, SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED AND LIGHT DETECTOR ON EXISTING TYPE A FOUNDATION. REUSE EXISTING ELECTRICAL CABLE AND INSTALL NEW NO. 20 3/C AND NO. 14 3/C CABLES.

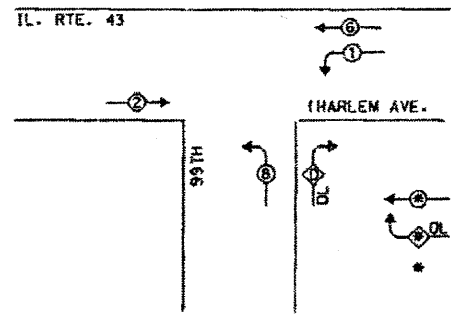
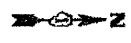
\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

NOTE: THE INTERSECTION AND TRAFFIC SIGNAL INSTALLATION ARE MAINTAINED BY IDOT.

LOCATION NO. 3

FILE NAME = 07441_02-PLAN-SIGN-01 - IDOT P25	USER NAME =	DESIGNED -- MRS	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HARLEM AVENUE BEAUTIFICATION TRAFFIC SIGNAL MODIFICATION PLAN IL ROUTE 43 (HARLEM AVE) AND 99TH STREET	F.A.P. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 25	
	PLOT SCALE =	CHECKED -- PKB	REVISED --			SCALE: 1"=20'	SHEET NO. 25 OF 55 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HPP-3482(001)
	PLOT DATE = 10-21-10	DRAWN -- RG	REVISED --			CONTRACT NO. 63510					
		CHECKED -- AG	REVISED --								

EXISTING CONTROLLER SEQUENCE



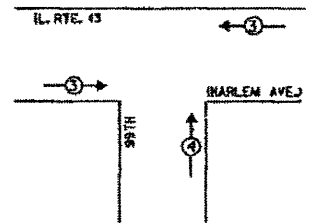
LEGEND  
 DUAL ENTRY PHASE  
 OVERLAP  
 NUMBER REFERS TO ASSOCIATED PHASE

EXISTING PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

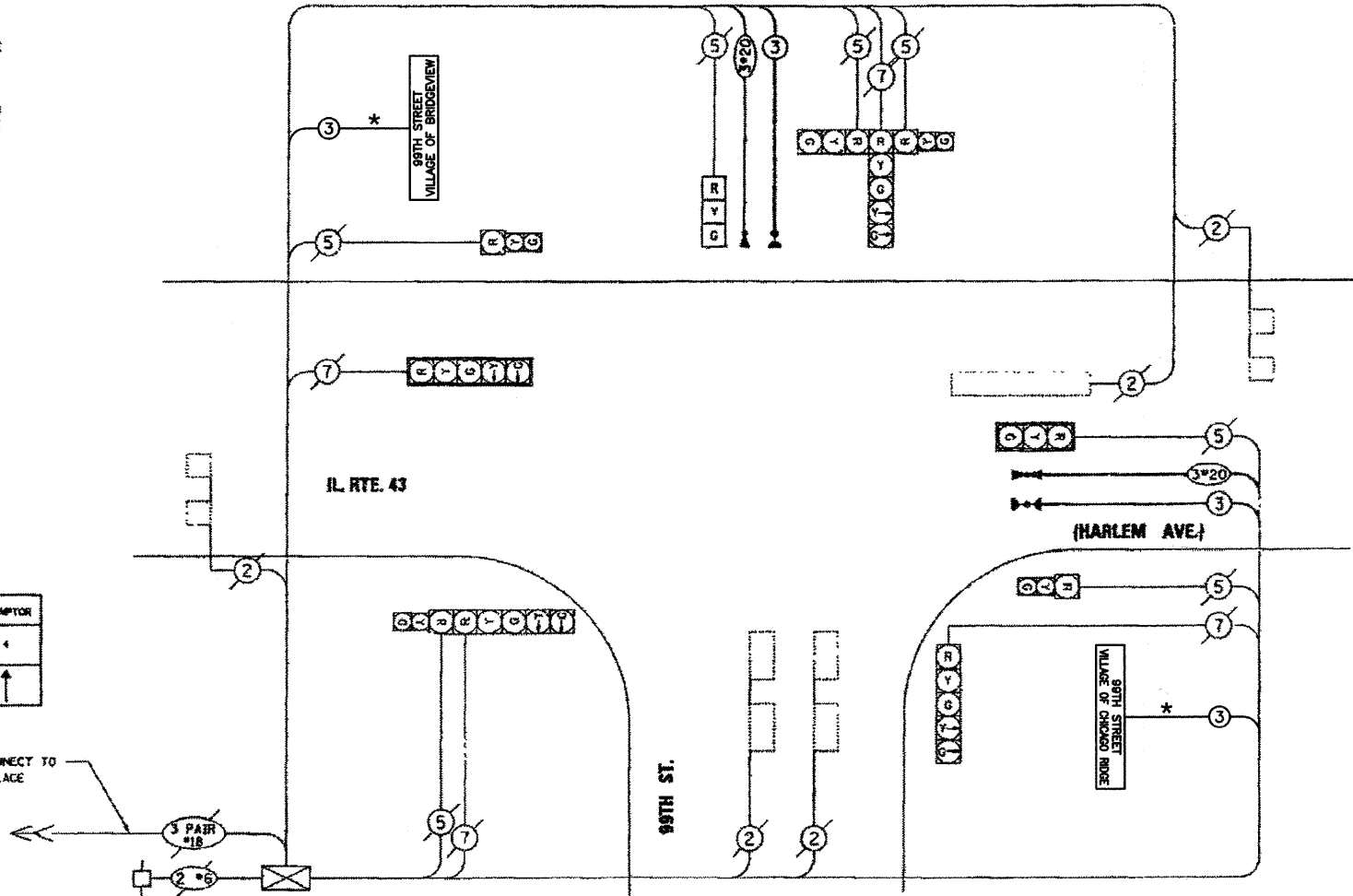
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE	DISPLAY
0	8	1	8

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

INTERCONNECT TO 100TH PLACE



CABLE PLAN LEGEND

- | EXISTING | PROPOSED |   |
|----------|----------|---|
|          |          | 8" TRAFFIC SIGNAL SECTION   |
|          |          | 12" TRAFFIC SIGNAL SECTION  |
|          |          | 12" PEDESTRIAN SIGNAL SECTION   |
|          |          | 12" PEDESTRIAN SIGNAL SECTION   |
|          |          | CONTROLLER CABINET  |
|          |          | SERVICE INSTALLATION  |
|          |          | VEHICLE DETECTOR, INDUCTION LOOP  |
|          |          | MAGNETIC DETECTOR   |
|          |          | EMERGENCY VEHICLE LIGHT DETECTOR  |
|          |          | CONFIRMATION BEACON   |
|          |          | PUSHBUTTON DETECTOR   |
|          |          | 2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
|          |          | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.  |
|          |          | NO. 62.5/125 12F FIBER OPTIC CABLE  |
|          |          | L.E.D. ILLUMINATED STREET NAME SIGN   |

~~SCHEDULE OF QUANTITIES~~

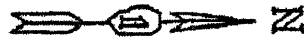
ITEM	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	343
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	343
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

\* SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	282

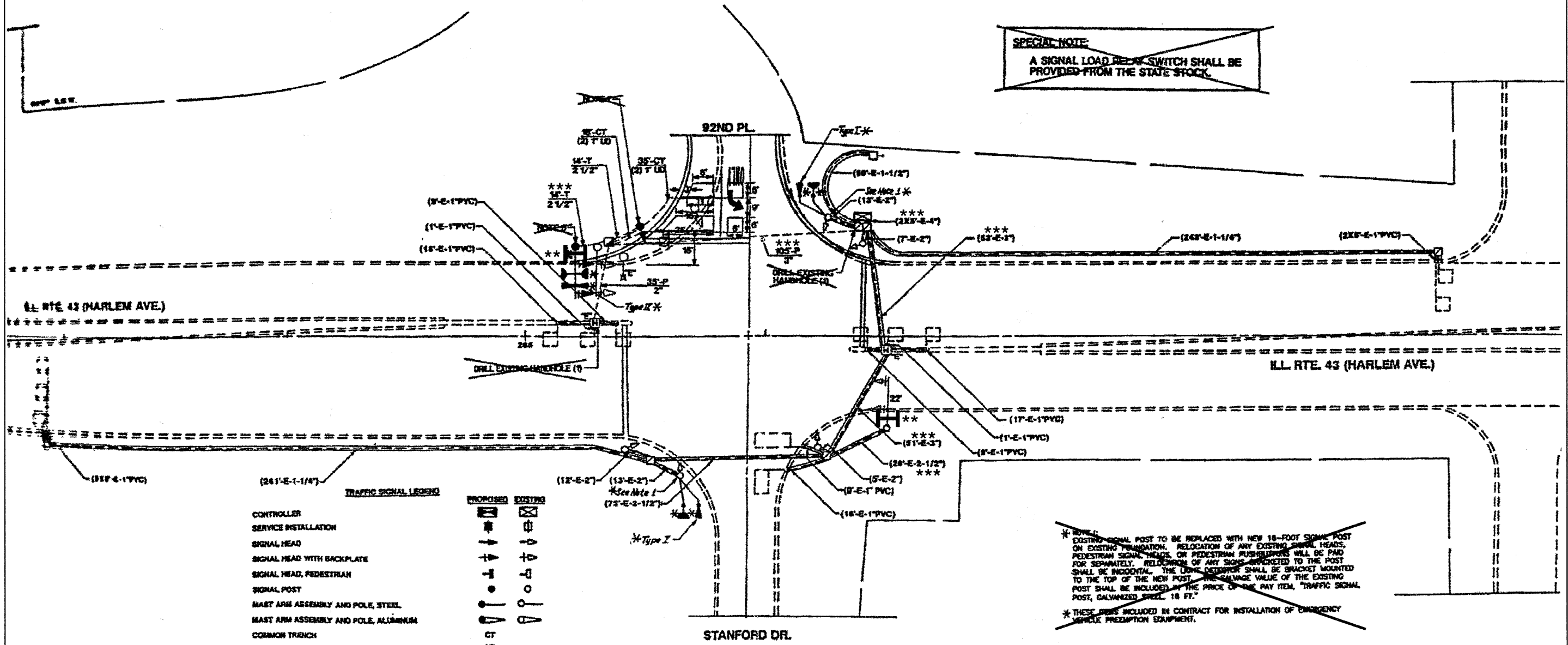
\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 3

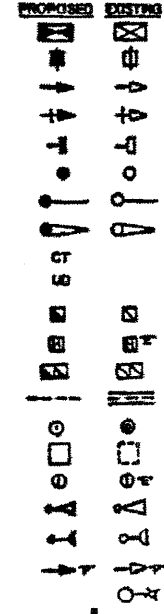


**SCOPE** 1. RELOCATE EXISTING TRAFFIC SIGNAL MAST ARM POLE AND POST IN THE SW QUADRANT.  
2. NEW DETECTOR LOOPS ON THE WEST LEG.

**SPECIAL NOTE**  
A SIGNAL LOAD RELAY SWITCH SHALL BE PROVIDED FROM THE STATE STOCK.



- TRAFFIC SIGNAL LEGEND**
- CONTROLLER
  - SERVICE INSTALLATION
  - SIGNAL HEAD
  - SIGNAL HEAD WITH BACKPLATE
  - SIGNAL HEAD, PEDESTRIAN
  - SIGNAL POST
  - MAST ARM ASSEMBLY AND POLE, STEEL
  - MAST ARM ASSEMBLY AND POLE, ALUMINUM
  - COMMON TRENCH
  - UNT DUCT
  - HANDHOLE
  - HEAVY DUTY HANDHOLE
  - DOUBLE HANDHOLE
  - G.S. CONDUIT IN TRENCH OR PUSHED
  - PEDESTRIAN PUSHBUTTON DETECTOR
  - DETECTOR LOOP
  - CAST IRON JUNCTION BOX
  - EMERGENCY VEHICLE SYSTEM DETECTOR
  - CONFIRMATION BEACON
  - SIGNAL HEAD OPTICALLY PROGRAMMED
  - LIGHT POLE
  - L.E.D. ILLUMINATED STREET NAME SIGN
  - CONDUIT USED FOR ILLUMINATED STREET NAME SIGN CABLE



\* ~~WORK:~~ EXISTING SIGNAL POST TO BE REPLACED WITH NEW 18-FOOT SIGNAL POST ON EXISTING FOUNDATION. RELOCATION OF ANY EXISTING SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, OR PEDESTRIAN PUSHBUTTONS WILL BE PAID FOR SEPARATELY. RELOCATION OF ANY SIGNS MOUNTED TO THE POST SHALL BE INCIDENTAL. THE LAMP DETECTOR SHALL BE BRACKET MOUNTED TO THE TOP OF THE NEW POST. THE BALANCE VALUE OF THE EXISTING POST SHALL BE INCLUDED IN THE PRICE OF THE PAY ITEM, "TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT."

\* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT.

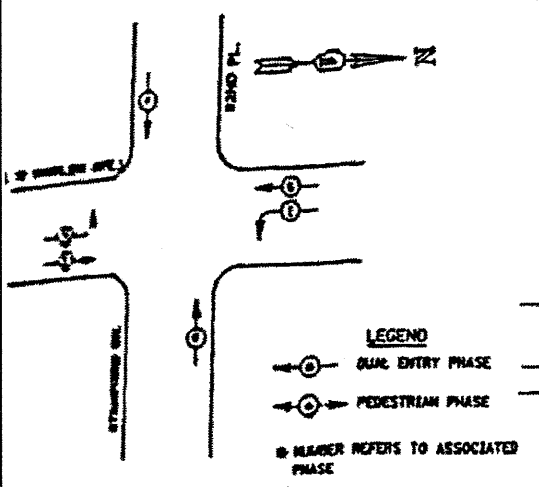
- NOTES**
1. ALL TRAFFIC SIGNAL WORK MUST BE DONE PRIOR TO ROADWAY CONSTRUCTION.
  2. THE EXISTING CONDUIT FROM THE EXISTING MAST ARM POLE AND TRAFFIC SIGNAL POST TO THE EXISTING HANDHOLE IN THE SW QUADRANT IS NOT SHOWN DUE TO CLARITY.
  3. PULL THE EXISTING 2/C CABLES FROM THE DOUBLE HANDHOLE TO THE CONTROLLER ON THE WEST AND SOUTH LEGS.
  4. PULL THE EXISTING 5/C AND 7/C CABLES FROM THE DOUBLE HANDHOLE TO THE CONTROLLER IN THE SW QUADRANT.
  5. RELOCATED MAST ARM ASSEMBLY AND POLE ALONG WITH SIGNAL HEADS.
  6. RELOCATED SIGNAL POST AND SIGNAL HEAD.
  7. THE EXISTING LIGHT POLE SHALL BE RELOCATED.

\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 4

FILE NAME = 07441_02-PLAN-SIGN-01 - IDOT P23	USER NAME =	DESIGNED - MRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HARLEM AVENUE BEAUTIFICATION TRAFFIC SIGNAL MODIFICATION PLAN ILL ROUTE 43 (HARLEM AVE) AND STANFORD DR/92ND PLACE	F.A.P. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 27	
PLOT SCALE =	DRAWN - RG	CHECKED - PKB	REVISED -			SCALE: 1"=20'	SHEET NO. 27 OF 55 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HPP-3462(001)
PLOT DATE = 10-21-10	CHECKED - AG	CONDUIT USED FOR ILLUMINATED STREET NAME SIGN CABLE ***	REVISED -			CONTRACT NO. 63510					

**CONTROLLER SEQUENCE**  
 REFERENCE TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES ARE DESIGNATED BELOW.



**PHASE DESIGNATION DIAGRAM**  
 DUAL ENTRY - ALL LEGS PROTECTED/PERMITTED LEFT TURN PHASING

**\*\* EMERGENCY VEHICLE PREEMPTION SEQUENCE**

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

**QUANTITY OF QUANTITIES**

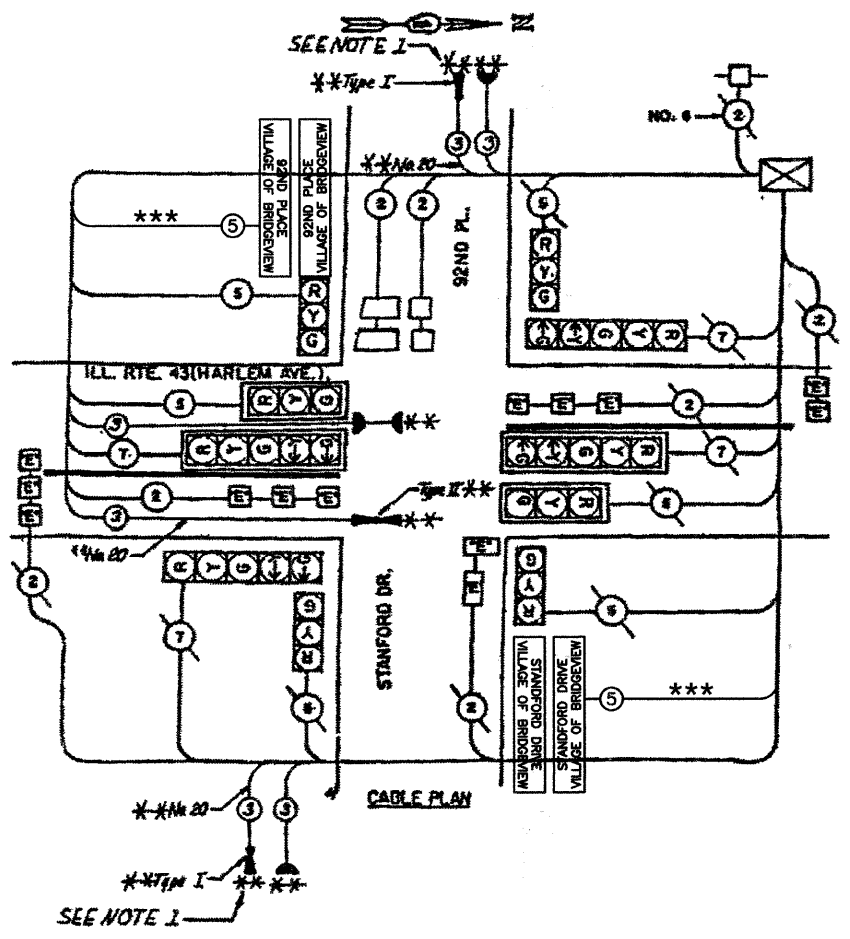
QTY	UNIT	DESCRIPTION
5	LN. FT.	CONDUIT PUSHED, 2 INCH GALVANIZED STEEL
5	LN. FT.	CONDUIT PUSHED, 3 INCH GALVANIZED STEEL
4	LN. FT.	CONDUIT TRENCHED, 2-1/2 INCH GALVANIZED STEEL
1	LN. FT.	POLYETHYLENE DUCT IN TRENCH, 1 INCH
1	LN. FT.	ELECTRIC CABLE IN CONDUIT, TWISTED SHIELDED SIGNAL, 2/C NO. 14
1	LN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 5/C
1	LN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 7/C
1	LN. FT.	ELECTRIC CABLE IN CONDUIT, PULL/REMOVE FUNCTION FOR REMOVAL AND ALL APPURTANCES
1	LN. FT.	FOUNDATION, CONCRETE TYPE A
1	LN. FT.	FOUNDATION, CONCRETE TYPE E 24" OR 30"
1	LN. FT.	FOUNDATION, CYCLAL
1	LN. FT.	CONCRETE MANDREL
1	LN. FT.	CONCRETE HEAVY-DUTY MANDREL
1	LN. FT.	DRILL MANDREL
1	LN. FT.	REMOVE MANDREL
1	LN. FT.	RELOCATE OR INSTALL EXISTING SIGNAL POST
1	LN. FT.	RELOCATE OR INSTALL EXISTING MAST ARM ASSEMBLY AND POLE
1	LN. FT.	INDUCTION LOOP DETECTOR AMPLIFIER
1	LN. FT.	DETECTOR LOOP

**SCHEDULE OF QUANTITIES**  
 IL ROUTE 43 (HARLEM AVE) / 92nd PL.

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
62401220	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	FOOT	490
63202520	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT	EACH	2
65000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
65200200	LIGHT DETECTOR AMPLIFIER	EACH	1
67300100	RELOCATE EXISTING SIGNAL HEAD	EACH	2
70002296	TRAFFIC CONTROL AND PROTECTION STANDARD 701701	EACH	1
74240250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C TWISTED	FOOT	490
	LIGHT DETECTOR, TYPE I	EACH	2
	LIGHT DETECTOR, TYPE R	EACH	1

**\*\* NOTE 1:**  
 BOTH TYPE I EMERGENCY VEHICLE DETECTORS SHALL PLACE A CALL TO THE EAST-WEST EMERGENCY VEHICLE PREEMPTOR 4

**\*\* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT.**



**CABLE PLAN LEGEND**

SYSTEM	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	6" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	FURNITURE DETECTOR
[Symbol]	[Symbol]	8 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE, "T" INDICATES PROGRAMMED HEAD.
[Symbol]	[Symbol]	"E" INDICATES EXISTING SIGNAL HEAD OR EXISTING PEDESTRIAN SIGNAL HEAD.
[Symbol]	[Symbol]	*** HARLEM AVENUE VILLAGE OF BRIDGEVIEW L.E.D. ILLUMINATED STREET NAME SIGN

**SPECIAL NOTE:**  
 A SIGNAL LOAD BREAK SWITCH SHALL BE PROVIDED FROM THE STATE STOCK.

**\*\*\* SCHEDULE OF QUANTITIES**

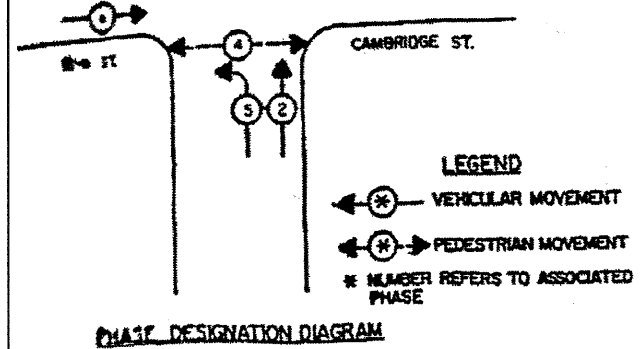
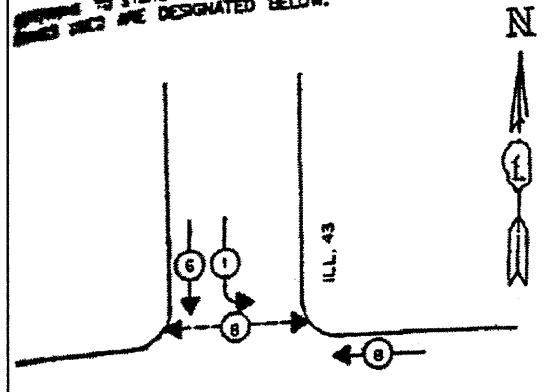
ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	361

**\*\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.**

LOCATION NO. 4



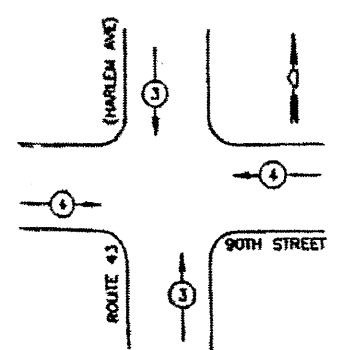
CONTROLLER SEQUENCE IV  
 TO STANDARD 2393-1, THE VEHICULAR AND PEDESTRIAN  
 PHASES ARE DESIGNATED BELOW.



**\* SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	255

\*\* EMERGENCY VEHICLE PREEMPTION SEQUENCE



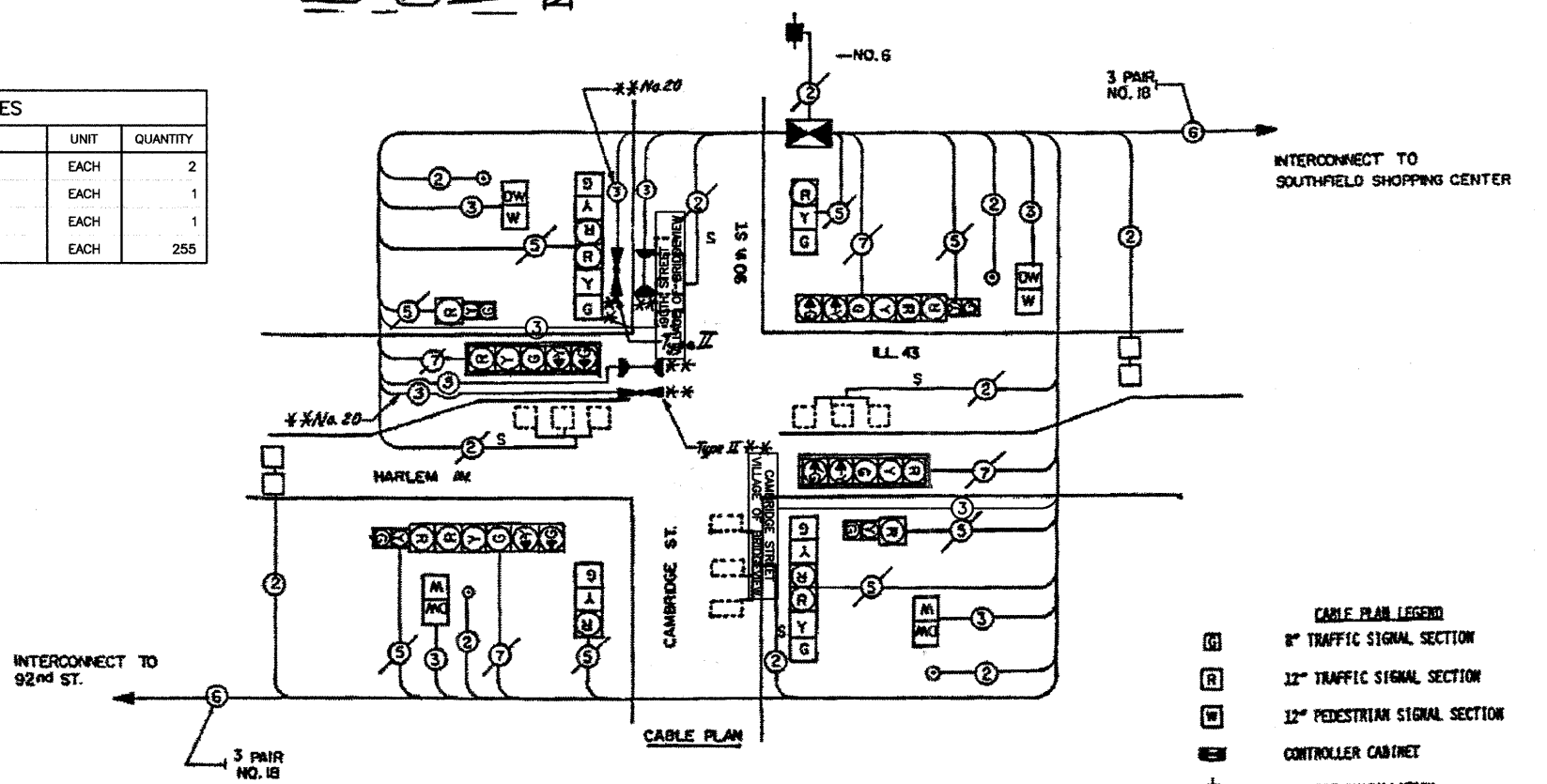
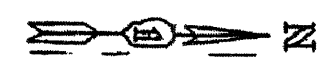
**PROPOSED EMERGENCY VEHICLE PREEMPTORS**

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

**SCHEDULE OF QUANTITIES**  
 IL ROUTE 43 (HARLEM AVE) / 90th ST

CODE NUMBER	PAK ITEM DESCRIPTION	UNIT	QUANTITY
82401220	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	254
82202320	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85200200	LIGHT DETECTOR AMPLIFIER	EACH	1
87300100	RELOCATE EXISTING SIGNAL HEAD	EACH	1
XX002398	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	FOOT	254
88240000	ELECTRIC CABLE IN CONDUIT NO. 20 SIG. TWISTED, SHIELDED	EACH	1
	LIGHT DETECTOR TYPE II		

~~\*\* THESE ITEMS INCLUDED IN CONTRACT FOR IMPROVEMENT OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT.~~



\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

- CABLE PLAN LEGEND**
- ⊙ 8" TRAFFIC SIGNAL SECTION
  - ⊙ 12" TRAFFIC SIGNAL SECTION
  - ⊙ 12" PEDESTRIAN SIGNAL SECTION
  - ⊙ CONTROLLER CABINET
  - ⊙ SERVICE INSTALLATION
  - ⊙ VEHICLE DETECTOR, INDUCTION LOOP
  - ⊙ PUSHBUTTON DETECTOR
  - ⊙ DENOTES NUMBER OF CONDUCTORS (NEX). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
  - ⊙ INDICATES EXISTING CABLE
  - ⊙ SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED
  - ⊙ EXISTING SIGNAL SECTION
  - ⊙ MAGNETIC DETECTOR
  - ⊙ OPTICAL DETECTOR, Proposed
  - ⊙ CONFIRMATION BEACON, Proposed

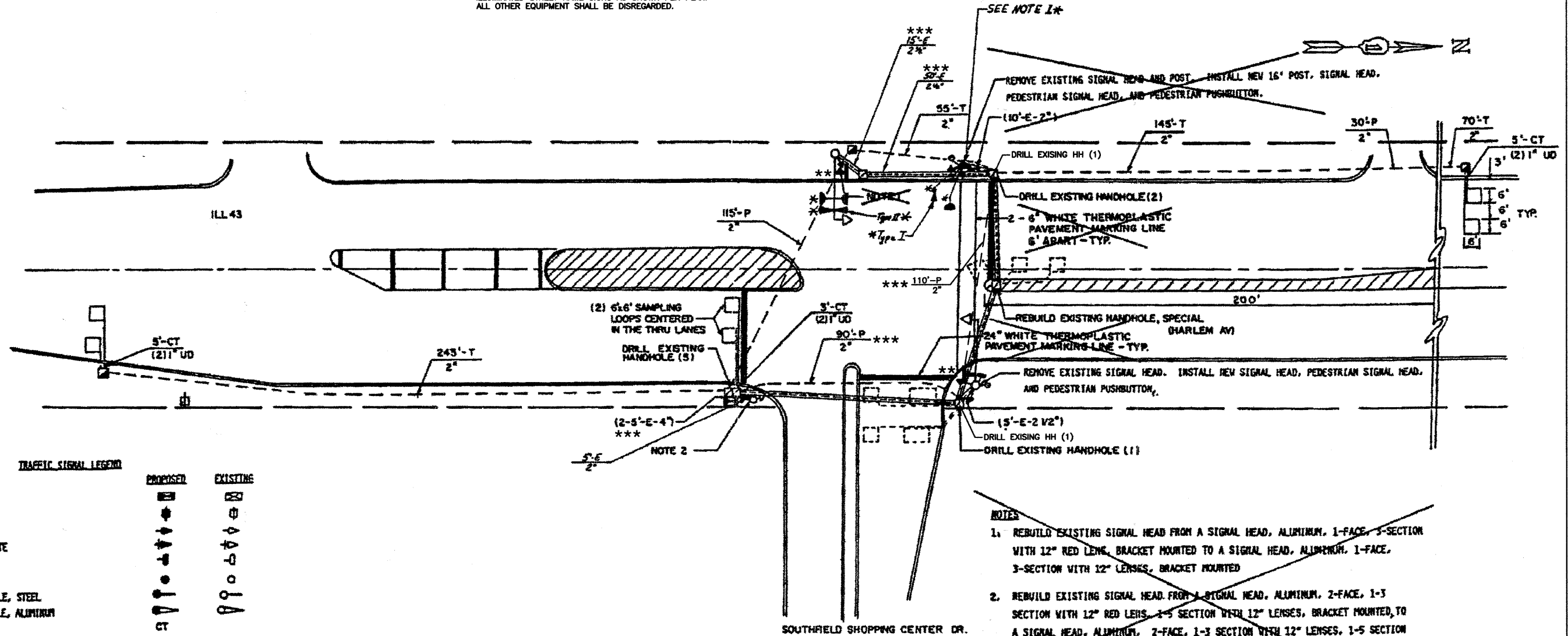
**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
1	EACH	FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE IV, 8 PHASES, IN TYPE IV CABINET
1	EACH	TRANSMITTER
2	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
132	LIN. FT.	DETECTOR LOOP, TYPE I
4	EACH	PEDESTRIAN PUSHBUTTON
28	LIN. FT.	UNIT DUCT, WITHOUT CABLE IN TRENCH 1"
429	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C
429	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
663	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C TWISTED, SHIELDED
663	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 18 3 PAIR TWISTED, SHIELDED
14	LIN. FT.	TRENCH AND BACKFILL
4	EACH	REBUILD EXISTING SIGNAL HEAD
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	RELOCATE EXISTING INDUCTION LOOP DETECTOR AMPLIFIER
607	LIN. FT.	PULL ELECTRIC CABLE FROM CONDUIT
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	DRILL EXISTING HANDHOLE
768	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 6

\* HARLEM AVENUE VILLAGE OF BRIDGEVIEW L.E.D. ILLUMINATED STREET NAME SIGN

LOCATION NO. 5

\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
WITROLLER		
TRIPLE INSTALLATION		
TRAFFIC HEAD		
TRAFFIC HEAD WITH BACKPLATE		
TRAFFIC HEAD, PEDESTRIAN		
TRAFFIC POST		
ST ARM ASSEMBLY AND POLE, STEEL		
ST ARM ASSEMBLY AND POLE, ALUMINUM		
POLE TRENCH		
UT DUCT		
WINKLE		
UT DUTY HANDHOLE		
ABLE HANDHOLE		
E. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
IT EACH JUNCTION BOX		
TRAFFIC VEHICLE SYSTEM DETECTOR		
TRAFFIC HEAD OPTICALLY PROGRAMMED		
TRITTY SPLICE		
BARRIER MEDIAN REMOVAL & REPLACEMENT		
FLUORESCENT BEACON		
L.E.D. ILLUMINATED STREET NAME SIGN		
CONDUIT USED FOR ILLUMINATED STREET NAME SIGN CABLE		

- NOTES
1. REBUILD EXISTING SIGNAL HEAD FROM A SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12" RED LENS, BRACKET MOUNTED TO A SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12" LENSES, BRACKET MOUNTED
  2. REBUILD EXISTING SIGNAL HEAD FROM A SIGNAL HEAD, ALUMINUM, 2-FACE, 1-3 SECTION WITH 12" RED LENS, 1-3 SECTION WITH 12" LENSES, BRACKET MOUNTED TO A SIGNAL HEAD, ALUMINUM, 2-FACE, 1-3 SECTION WITH 12" LENSES, 1-5 SECTION WITH 12" LENSES, BRACKET MOUNTED

NOTE 1:  
EXISTING SIGNAL POST TO BE REPLACED WITH NEW 18-FOOT SIGNAL POST ON EXISTING FOUNDATION. RELOCATION OF ANY EXISTING SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, OR PEDESTRIAN PUSHBUTTONS WILL BE PAID FOR SEPARATELY. RELOCATION OF ANY SIGNS BRACKETED TO THE POST SHALL BE INCIDENTAL. THE LENS DETECTOR SHALL BE BRACKET MOUNTED TO THE TOP OF THE NEW POST. THE MARKET VALUE OF THE EXISTING POST SHALL BE INCLUDED IN THE PRICE OF THE FIXTURE. TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FOOT.

\* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT.

LOCATION NO. 6

FILE NAME = 07441_02-PLAN SIGN 01 - IDOT P18	USER NAME =	DESIGNED - MRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HARLEM AVENUE BEAUTIFICATION TRAFFIC SIGNAL MODIFICATION PLAN IL ROUTE 43 (HARLEM AVE) AND SOUTHFIELD SHOPPING CENTER DRIVE	F.A.P. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 31	
PLOT SCALE =	DRAWN - RG	REVISED -	SCALE: 1"=20'			SHEET NO. 31 OF 55 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HPP-3462(001)	
PLOT DATE = 10-21-10	CHECKED - AG	REVISED -	CONTRACT NO. 63510								

SEQUENCE OF OPERATIONS													
MOVEMENT	←		→		←		→		F	L			
PHASE	1+6		2+6		3		4		A	S			
INTERVAL	1	2	3A	3B	4	5A	5B	6	7	8A	8B	9A	9B
CHANGE TO	2+6		3		4		1+6		2+6				
ILL 43 (HARLEM AV) S/B NEAR RIGHT SIGNAL	G	Y	R	R	R	R	R	R	R	R	R	R	R
ILL 43 (HARLEM AV) S/B END MAST ARM AND FAR LEFT SIGNALS	G	Y	R	R	R	R	R	R	R	R	R	R	R
ILL 43 (HARLEM AV) N/B NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL 43 (HARLEM AV) N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
SHOPPING CENTER NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
SHOPPING CENTER FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS X-WG ILL 43 ON INSIDE OF SHOPPING CENTER DR	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW

~~TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.~~

~~\* \* FLASHING "DON'T WALK" INDICATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL.~~

SCHEDULE OF QUANTITIES		
QUANTITY	UNIT	ITEM
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED
1	EACH	TRAFFIC SIGNAL POST, APPROX 16 FT.
1	EACH	FULL-ACTUATED CONTROLLER, SPECIAL SEQUENCE, 8 PHASES, IN TYPE IV CABINET
1	EACH	TRANSCIVER
4	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
222	LIN. FT.	DETECTOR LOOP TYPE I
2	EACH	PEDESTRIAN PUSHBUTTON
515	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2"
235	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 2"
26	LIN. FT.	UNIT DUCT, WITHOUT CABLE IN TRENCH 1"
354	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C
283	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
121	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 7/C
786	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C TWISTED, SHIELDED
720	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 18 3 PAIR TWISTED, SHIELDED
3	EACH	CONCRETE HANDHOLE
528	LIN. FT.	TRENCH AND BACKFILL
2	EACH	REBUILD EXISTING SIGNAL HEAD
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	RELOCATE EXISTING INDUCTION LOOP DETECTOR AMPLIFIER
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	DRILL EXISTING HANDHOLE
14	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
109	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 12"

~~THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. IT SHALL REMAIN THE PROPERTY OF THE STATE, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE FORCES AS DESIGNATED BY THE ENGINEER.~~

~~1 EACH CONTROLLER CABINET COMPLETE~~

~~THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY HIM AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.~~

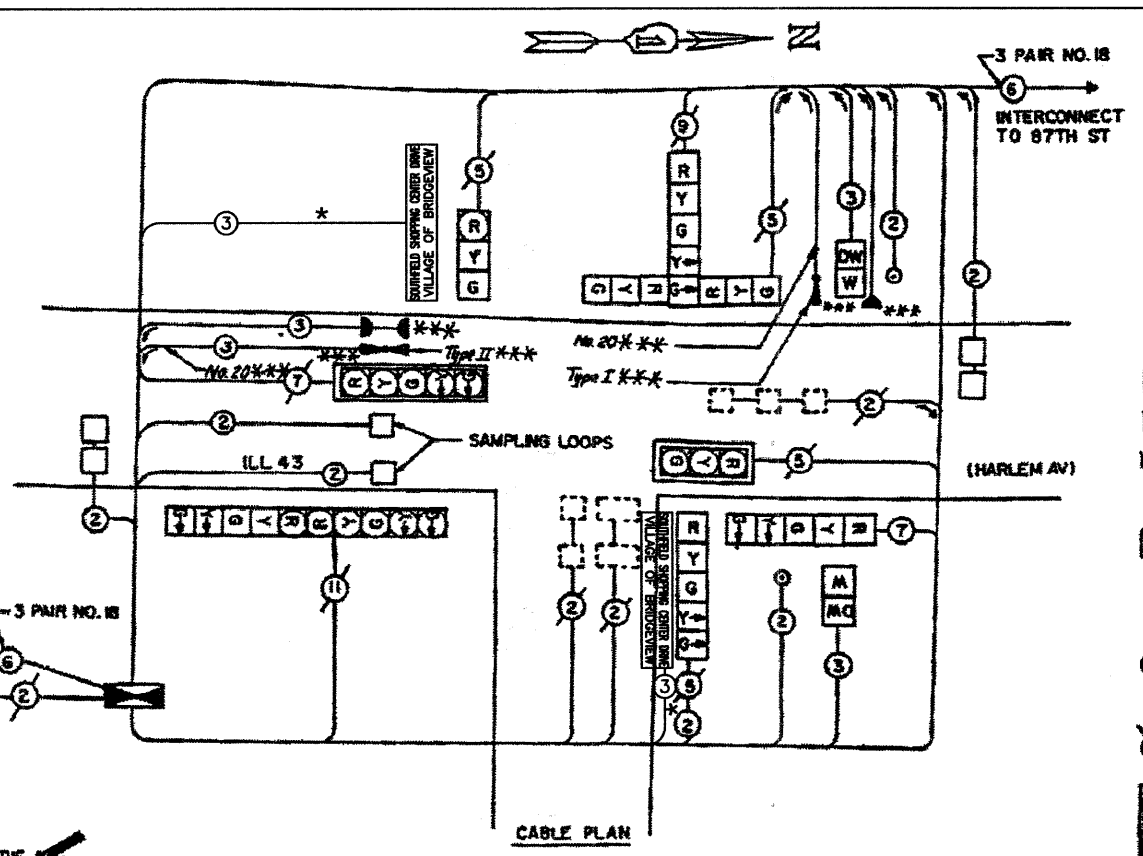
~~1 EACH SIGNAL HEAD, 1-FACE, 3-SECTION~~

~~1 EACH SIGNAL HEAD, 3-FACE, 3-SECTION~~

~~1 EACH TRAFFIC SIGNAL POST~~

~~REBUILD EXISTING HANDHOLE SPECIAL~~

~~24.00 SQ. FT. CURB MEDIAN REMOVAL AND PAVEMENT REPAIRMENT SPECIAL~~



- CABLE PLAN LEGEND**
- 8" TRAFFIC SIGNAL SECTION
  - 12" TRAFFIC SIGNAL SECTION
  - 12" PEDESTRIAN SIGNAL SECTION
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR, INDUCTION LOOP
  - PUSHBUTTON DETECTOR
  - DENOTES NUMBER OF CONDUCTORS (NEED ALL LOOP DETECTOR CABLE TO BE SHIELDED, ALL CABLE NO. 14 EXCEPT AS INDICATED)
  - INDICATES EXISTING CABLE
  - SIGNAL FACE WITH BACKPLATE
  - "\*" INDICATES PROGRAMMED
  - EXISTING SIGNAL SECTION
  - MAGNETIC DETECTOR
  - OPTICAL DETECTOR
  - CONFIRMATION BEACON
  - CABLE ROUTES TO CONTROLLER THROUGH 2" CONDUIT SYSTEM CROSSING HARLEM AVENUE ON SOUTH LEG.
  - CABLE ROUTES TO CONTROLLER THROUGH ORIGINAL CONDUIT SYSTEM CROSSING HARLEM AVENUE ON NORTH LEG.
  - L.E.D. ILLUMINATED STREET NAME SIGN

\*\*\* SEE SHEET 21 FOR SEQUENCES

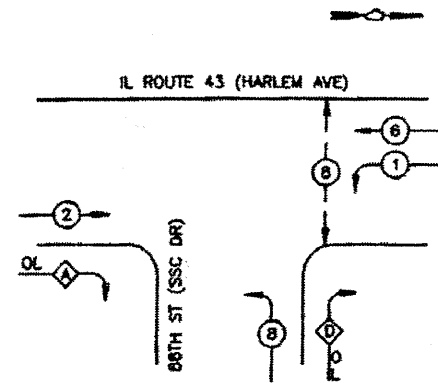
\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

~~\*\*\* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE RECOVERY EQUIPMENT.~~

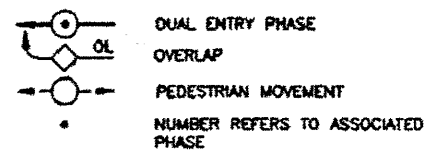
LOCATION NO. 6



**CONTROLLER SEQUENCE**

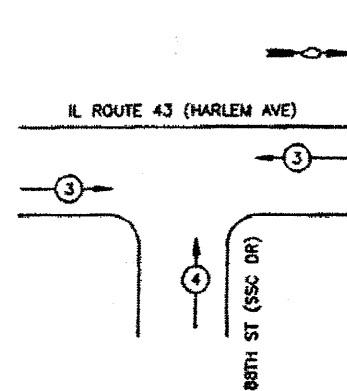


**LEGEND**



**EXISTING PHASE DESIGNATION DIAGRAM**

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



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

**\* SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	476

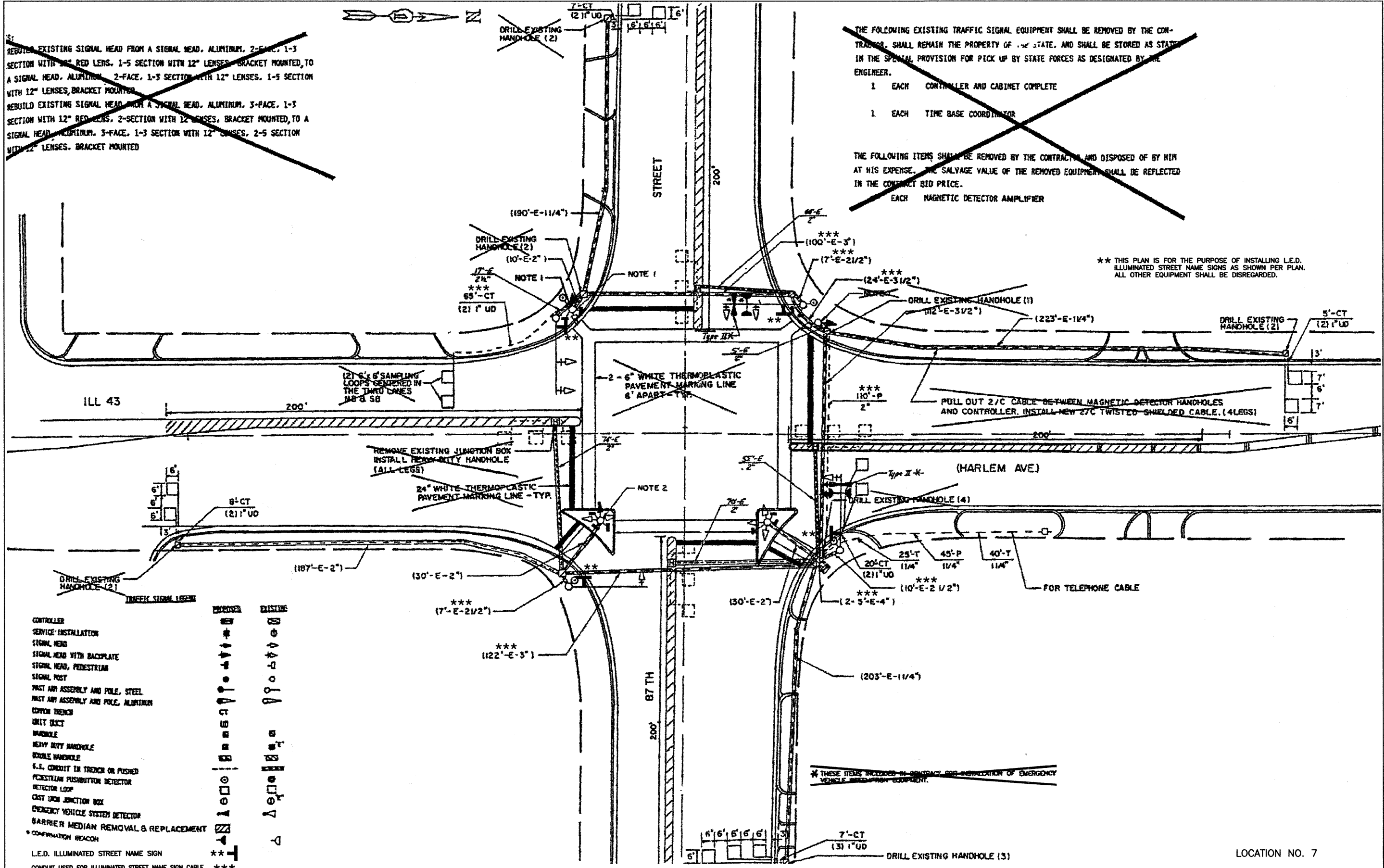
**SCHEDULE OF QUANTITIES**

IL ROUTE 43 (HARLEM AVE) / 88th ST			
CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
22401220	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	500
22401230	TRAFFIC SIGNAL BODY GALVANNEED STEEL 18 FT.	EACH	1
22402000	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
22402001	LIGHT DETECTOR AMPLIFIER	EACH	1
07500100	RELOCATE EXISTING SIGNAL HEAD	EACH	3
07500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
07500300	RELOCATE EXISTING PEDESTRIAN PUSH BUTTON	EACH	1
02402200	TRAFFIC CONTROL AND PROTECTION STANDARD 751101	EACH	1
72240200	ELECTRIC CABLE IN CONDUIT NO. 24 3C, TWISTED	FOOT	88
	LIGHT DETECTOR TYPE I	EACH	1
	LIGHT DETECTOR TYPE II	EACH	1

\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 6

FILE NAME = 07441_02-PLAN-SIGN-01 - IDOT P20	USER NAME =	DESIGNED = MRS	REVISED =	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HARLEM AVENUE BEAUTIFICATION EMERGENCY VEHICLE PREEMPTION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES IL ROUTE 43 (HARLEM AVE) AND SOUTHFIELD SHOPPING CENTER DRIVE</b>	F.A.P. RTE. = 348	SECTION = 07-00055-01-SG	COUNTY = COOK	TOTAL SHEETS = 55	SHEET NO. = 33	
	CHECKED = PKB	REVISED =									
	PLOT SCALE =	DRAWN = RG	REVISED =								
	PLOT DATE = 10-21-10	CHECKED = AG	REVISED =								
						SCALE: 1"=20'	SHEET NO. 33 OF 55 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3482(001) CONTRACT NO. 63510		



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE FORCES AS DESIGNATED BY THE ENGINEER.

1 EACH CONTROLLER AND CABINET COMPLETE

1 EACH TIME BASE COORDINATOR

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY HIM AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH MAGNETIC DETECTOR AMPLIFIER

\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

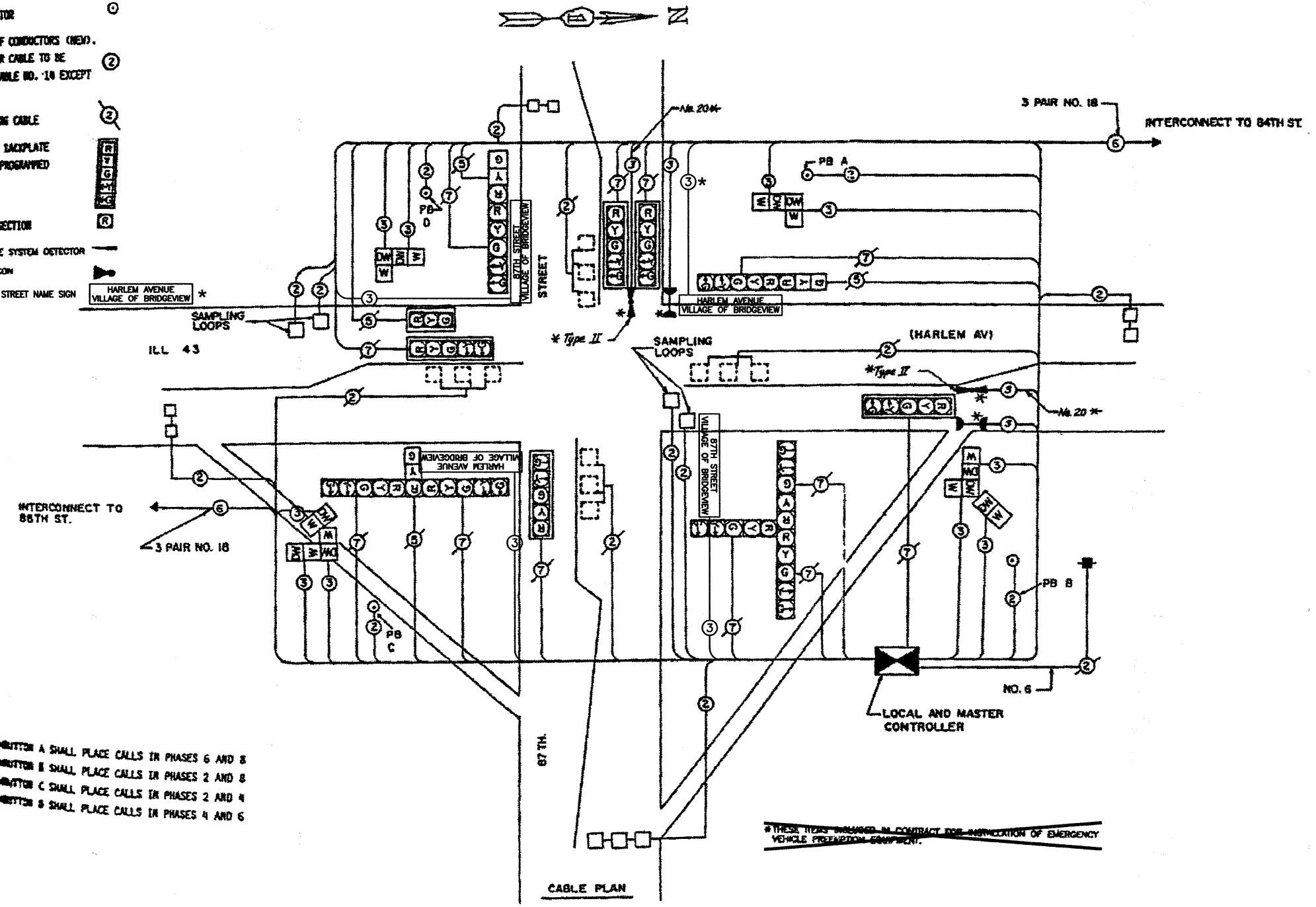
- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- POST AND ASSEMBLY AND POLE, STEEL
- POST AND ASSEMBLY AND POLE, ALUMINUM
- COPPER TRENCH
- UNIT DUCT
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- 6.5. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CAST IRON JUNCTION BOX
- EMERGENCY VEHICLE SYSTEM DETECTOR
- BARRIER MEDIAN REMOVAL & REPLACEMENT
- \* CONVICTION BEACON
- L.E.D. ILLUMINATED STREET NAME SIGN
- CONDUIT USED FOR ILLUMINATED STREET NAME SIGN CABLE

FILE NAME = 0741_02-PLAN-SIGN-01 - IDOT P15	USER NAME =	DESIGNED - MRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HARLEM AVENUE BEAUTIFICATION TRAFFIC SIGNAL MODIFICATION PLAN IL ROUTE 43 (HARLEM AVE) AND 87TH STREET	F.A.P. R.T.E. = 348	SECTION = 07-00055-01-SG	COUNTY = COOK	TOTAL SHEETS = 55	SHEET NO. = 34	
PLOT SCALE =	DRAWN - RG	REVISED -	SCALE: 1"=20'			SHEET NO. 34 OF 55 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. = 1	ILLINOIS	FED. AID PROJECT = HPP-3482(001)	CONTRACT NO. 63510
PLOT DATE = 10-21-10	CHECKED - AG	REVISED -									

LOCATION NO. 7

- CABLE PLAN LEGEND**
- 1" TRAFFIC SIGNAL SECTION [Symbol]
  - 12" TRAFFIC SIGNAL SECTION [Symbol]
  - 12" PEDESTRIAN SIGNAL SECTION [Symbol]
  - CONTROLLER CABINET [Symbol]
  - SERVICE INSTALLATION [Symbol]
  - VEHICLE DETECTOR, INDUCTION LOOP [Symbol]
  - PUSHBUTTON DETECTOR [Symbol]
  - INDICATES NUMBER OF CONDUCTORS (NEED). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
  - INDICATES EXISTING CABLE [Symbol]
  - SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED [Symbol]
  - EXISTING SIGNAL SECTION [Symbol]
  - BICHOPEX VEHICLE SYSTEM DETECTOR [Symbol]
  - CONFIRMATION BEACON [Symbol]
  - L.E.D. ILLUMINATED STREET NAME SIGN [Symbol]

\* SEE SHEET 18 FOR SEQUENCES



PUSHBUTTON A SHALL PLACE CALLS IN PHASES 6 AND 8  
 PUSHBUTTON B SHALL PLACE CALLS IN PHASES 2 AND 8  
 PUSHBUTTON C SHALL PLACE CALLS IN PHASES 2 AND 4  
 PUSHBUTTON D SHALL PLACE CALLS IN PHASES 4 AND 6

THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREVENTION EQUIPMENT.

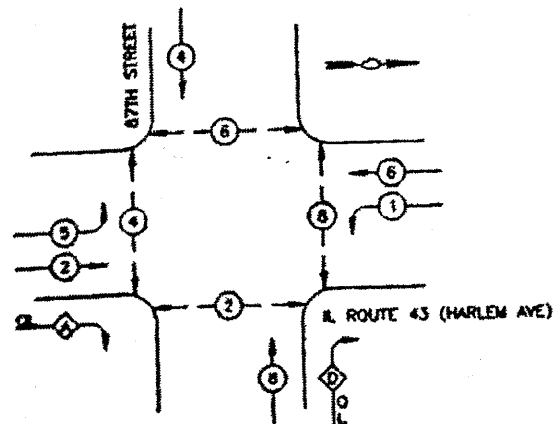
**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED
	EACH	PEDESTRIAN SIGNAL HEAD, 3-FACE, BRACKET MOUNTED
1	EACH	FULL-ACTUATED CONTROLLER, SPECIAL SEQUENCE, 8 PHASES, IN TYPE IV CABINET
1	EACH	TRANSMITTER
8	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
1	EACH	MASTER CONTROLLER
481	LIN. FT.	DETECTOR LOOP, TYPE I
4	EACH	PEDESTRIAN PUSHBUTTON
65	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1-1/4"
95	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 1-1/4"
110	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 2"
224	LIN. FT.	UNTY DUCT, WITHOUT CABLE IN TRENCH 1"
644	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C
1602	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
1974	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C TWISTED, SHIELDED
705	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 18 3 PAIR TWISTED, SHIELDED
183	LIN. FT.	TRENCH AND BACKFILL
3	EACH	REBUILD EXISTING SIGNAL HEAD
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	RELOCATE EXISTING INDUCTION LOOP DETECTOR AMPLIFIER
1298	LIN. FT.	PULL ELECTRIC CABLE FROM CONDUIT
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
16	EACH	DRILL EXISTING HANDHOLE
733	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
246	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
194	SG. FT.	THERMOPLASTIC PAVEMENT MARKING REMOVAL
4	EACH	REMOVE EXISTING JUNCTION BOX
4	EACH	CONCRETE HEAVY-DUTY HANDHOLE
3200	SG. FT.	BARRIER MEDIAN REMOVAL AND PAVEMENT REPLACEMENT, SPECIAL

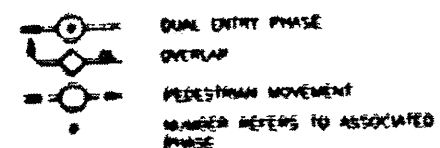
\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 7

**CONTROLLER SEQUENCE**

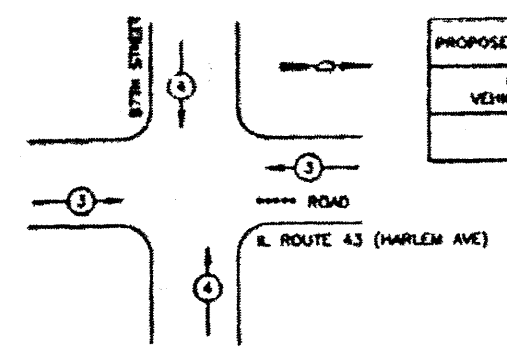


**LEGEND**



**EXISTING PHASE DESIGNATION DIAGRAM**

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



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

* SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	725

<del>SCHEDULE OF QUANTITIES</del>			
<del>IL ROUTE 43 (HARLEM AVE) / 87th ST</del>			
<del>CODE NUMBER</del>	<del>ITEM DESCRIPTION</del>	<del>UNIT</del>	<del>QUANTITY</del>
<del>8401230</del>	<del>ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C</del>	<del>FOOT</del>	<del>725</del>
<del>8400200</del>	<del>MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION</del>	<del>EACH</del>	<del>1</del>
<del>8400200</del>	<del>MODIFY EXISTING CONTROLLER CABINET</del>	<del>EACH</del>	<del>1</del>
<del>8400220</del>	<del>TRAFFIC CONTROL AND PROTECTION STANDARD 701701</del>	<del>EACH</del>	<del>1</del>
<del>8400230</del>	<del>ELECTRIC CABLE IN CONDUIT NO. 20 3/4" TWISTED</del>	<del>FOOT</del>	<del>725</del>
	<del>LIGHT DETECTOR TYPE B</del>	<del>EACH</del>	<del>2</del>

\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 7

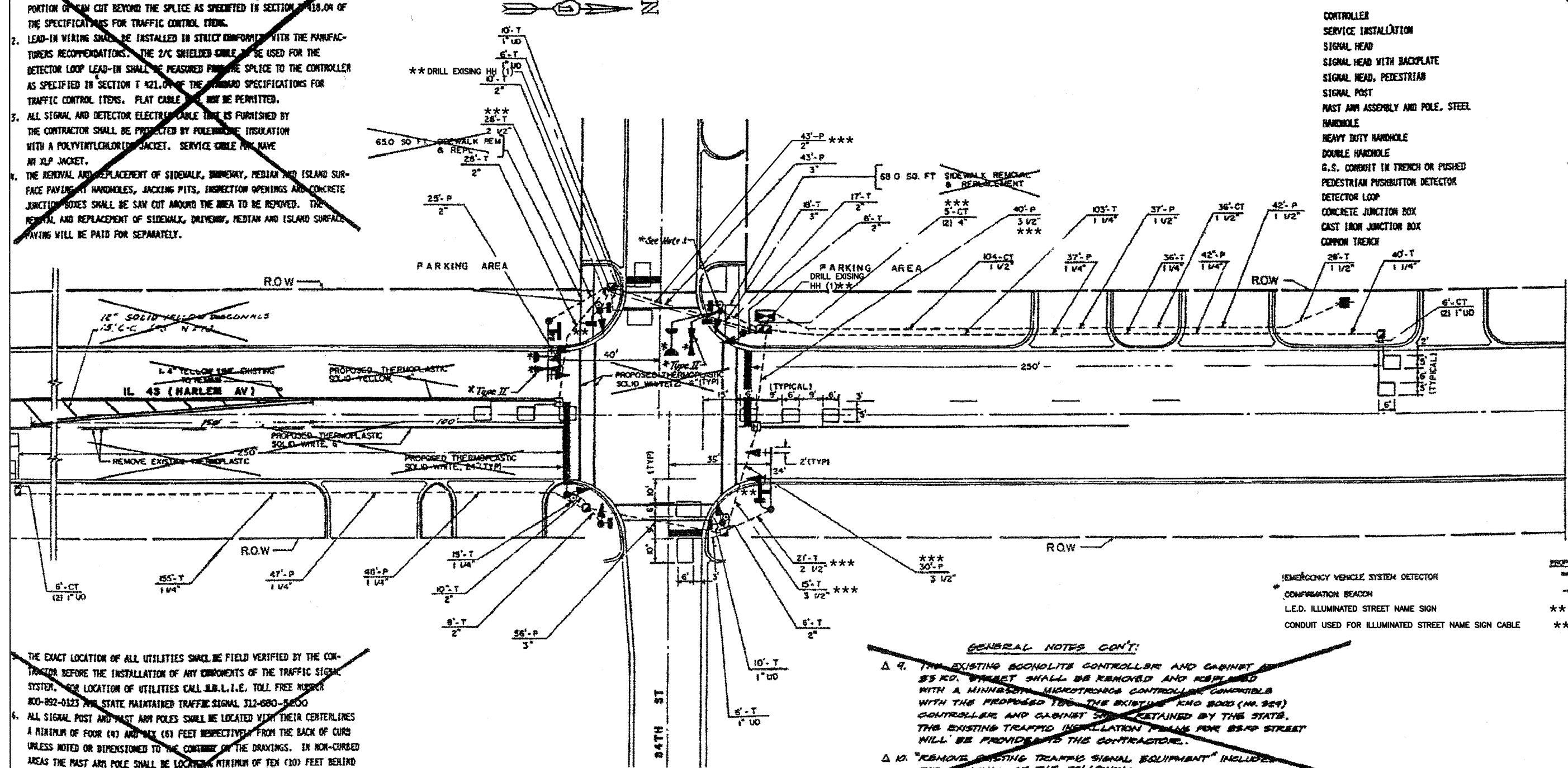


FACTURERS RECOMMENDATIONS. THE DETECTOR LEAD-IN SHALL BE MEASURED FROM PORTION OF CABLE CUT BEYOND THE SPLICE AS SPECIFIED IN SECTION 1118.04 OF THE SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.

2. LEAD-IN WIRING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURERS RECOMMENDATIONS. THE 2/C SHIELDED CABLE TO BE USED FOR THE DETECTOR LOOP LEAD-IN SHALL BE MEASURED FROM THE SPLICE TO THE CONTROLLER AS SPECIFIED IN SECTION 1421.04 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. FLAT CABLE SHALL NOT BE PERMITTED.

3. ALL SIGNAL AND DETECTOR ELECTRICAL CABLE THAT IS FURNISHED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A POLYVINYLCHLORIDE JACKET. SERVICE CABLE MAY HAVE AN XLPE JACKET.

4. THE REMOVAL AND REPLACEMENT OF SIDEWALK, BIWAY, MEDIAN AND ISLAND SURFACE PAVING, HANDHOLES, JACKING PITS, INSPECTION OPENINGS AND CONCRETE JUNCTION BOXES SHALL BE SAW CUT AROUND THE AREA TO BE REMOVED. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING WILL BE PAID FOR SEPARATELY.



THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES CALL M.B.L.I.E. TOLL FREE NUMBER 800-892-0123 AND STATE MAINTAINED TRAFFIC SIGNAL 312-680-5000

6. ALL SIGNAL POST AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) AND SIX (6) FEET RESPECTIVELY FROM THE BACK OF CURB UNLESS NOTED OR DIMENSIONED TO THE CONTRARY OF THE DRAWINGS. IN NON-CURBED AREAS THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. SIGNAL POSTS SHOULD BE PLACED AT A MINIMUM OF TWO (2) FEET BEHIND THE EDGE OF THE SHOULDER.

7. THE RESIDENT ENGINEER SHALL MARK LOCATIONS OF ALL DETECTOR LOOPS AND CONTACT THE I.D.O.T. AREA TRAFFIC SIGNAL ENGINEER AT 834-4139 FOR LOCATION APPROVAL PRIOR TO THE CUTTING OF THE LOOPS.

8. ONE OF THE BASE COORDINATING UNITS SHALL BE INSTALLED AT THE INTERSECTION OF 83RD STREET WITH ILL RTE 43 TO COORDINATE WITH THE OTHER TIME BASE COORDINATING UNITS ALONG ILL RTE 43. IDG UNITS SHALL BE MINNESOTA MICROTRONICS COMPATIBLE.

NOTE:  
EXISTING SIGNAL POST TO BE REPLACED WITH NEW 18-FOOT SIGNAL POST ON EXISTING FOUNDATION. RELOCATION OF ANY EXISTING SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, OR PEDESTRIAN PUSHBUTTONS WILL BE PAID FOR SEPARATELY. RELOCATION OF ANY SIGNS MOUNTED TO THE POST SHALL BE INCIDENTAL. THE BRACKET DETECTOR SHALL BE BRACKET MOUNTED TO THE TOP OF THE NEW POST. THE SALVAGE VALUE OF THE EXISTING POST SHALL BE INCLUDED IN THE PRICE OF THE PAY ITEM "TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT."

\* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT.

**GENERAL NOTES CONT:**

~~9. THE EXISTING BODOLITE CONTROLLER AND CABINET ON 83RD STREET SHALL BE REMOVED AND REPLACED WITH A MINNESOTA MICROTRONICS CONTROLLER COMPATIBLE WITH THE PROPOSED TSC. THE EXISTING KING 8000 (M. 809) CONTROLLER AND CABINET SHALL BE RETAINED BY THE STATE. THE EXISTING TRAFFIC SIGNAL EQUIPMENT FOR 83RD STREET WILL BE PROVIDED TO THE CONTRACTOR.~~

~~10. "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT" INCLUDES THE REMOVAL OF THE FOLLOWING:  
2 EACH MAGNETIC DETECTOR AMPLIFIER } SEE IL 43 (HARLEM AVE) &  
2 EACH MAGNETIC DETECTOR } 83RD ST. REVISED PLAN.~~

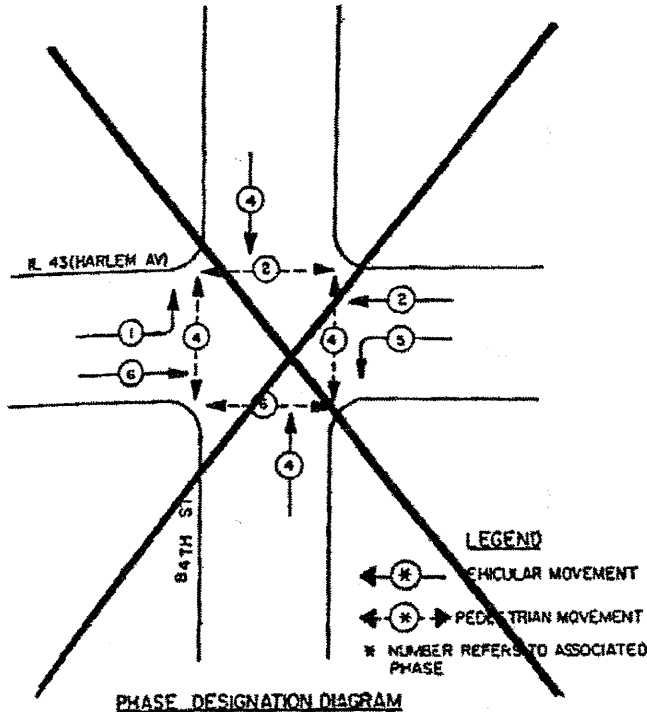
\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 8

FILE NAME = 0741_02-PLAN-SIGN-01 - IDOT P12	USER NAME =	DESIGNED - MRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HARLEM AVENUE BEAUTIFICATION TRAFFIC SIGNAL MODIFICATION PLAN IL ROUTE 43 (HARLEM AVE) AND 84TH STREET	F.A.P. RTE. = 348	SECTION = 07-00055-01-SG	COUNTY = COOK	TOTAL SHEETS = 55	SHEET NO. = 37		
	PLOT SCALE =	CHECKED - PKB	REVISED -			SCALE: 1"=20'	SHEET NO. 37 OF 55 SHEETS	STA. TO STA.	CONTRACT NO. 63510			
	PLOT DATE = 10-21-10	DRAWN - RG	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3482(001)			
		CHECKED - AG	REVISED -									

**CONTROLLER SEQUENCE III**

REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

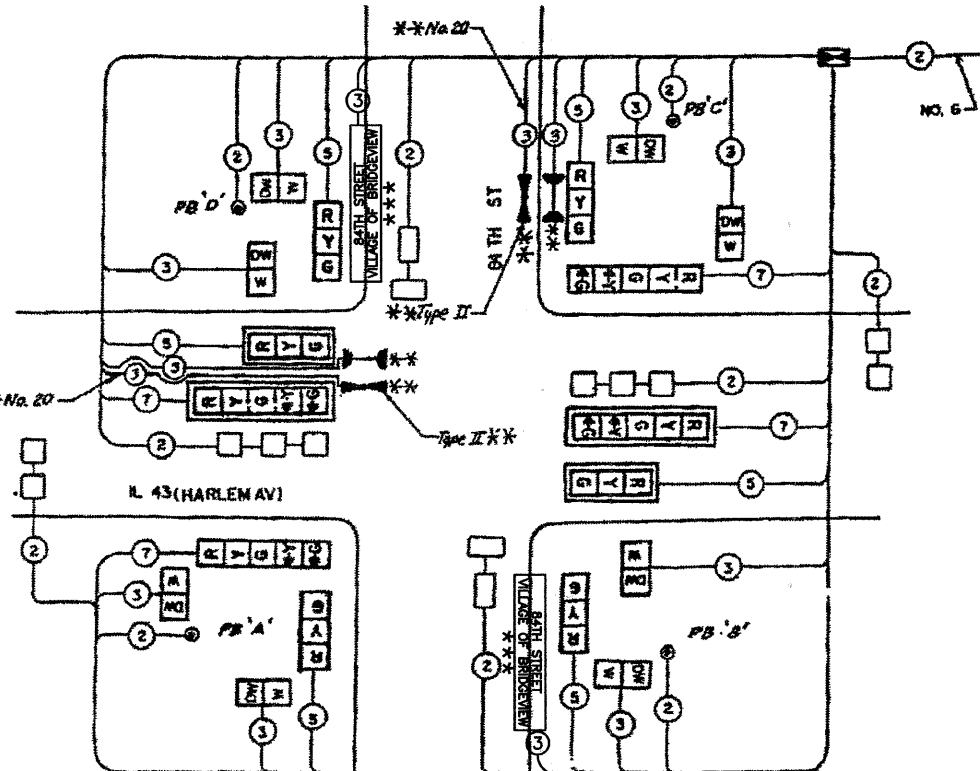


**LEGEND**  
 (V) VEHICULAR MOVEMENT  
 (P) PEDESTRIAN MOVEMENT  
 \* NUMBER REFERS TO ASSOCIATED PHASE

**NOTE:**  
~~PUSH BUTTONS C & D TO PLACE PEDESTRIAN CALLS IN PHASES 2 & 4.~~  
~~PUSH BUTTONS A & B TO PLACE PEDESTRIAN CALLS IN PHASES 1 & 6.~~

\*\* SEE SHEET 15 FOR SEQUENCES

\*\* NOTE:  
 PUSHBUTTON 'A' SHALL PLACE A CALL TO PHASES 2 & 4.  
 PUSHBUTTON 'B' SHALL PLACE A CALL TO PHASES 2 & 8.  
 PUSHBUTTON 'C' SHALL PLACE A CALL TO PHASES 6 & 8.  
 PUSHBUTTON 'D' SHALL PLACE A CALL TO PHASES 4 & 6.



**CABLE PLAN LEGEND**

- (S) 8" TRAFFIC SIGNAL SECTION
- (L) 12" TRAFFIC SIGNAL SECTION
- (C) CONTROLLER CABINET
- (I) SERVICE INSTALLATION
- (V) VEHICLE DETECTOR, INDUCTIVE LOOP
- (N) DENOTES NUMBER OF CONDUCTORS (ALL) ALL LOOP DETECTOR CABLE TO BE SHIELDED, ALL CABLE NO. 14 EXCEPT AS INDICATED
- (E) INDICATES EXISTING CABLE
- (M) MAGNETIC DETECTOR
- (O) OPTICAL DETECTOR
- (S) SIGNAL FACE WITH BACKPLATE
- (P) INDICATES PROGRAMMED
- (B) CONFIRMATION BEACON
- (H) HARLEM AVENUE VILLAGE OF BRIDGEVIEW L.E.D. ILLUMINATED STREET NAME SIGN

**SUMMARY OF QUANTITIES**

ITEM	QUANTITY	UNIT	ITEM
20201	12	SQ. FT.	SIGN PANEL TYPE 1
20252	4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, BRACKET MOUNTED
20253	2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, PAST ARM MOUNTED
20254	2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, BRACKET MOUNTED
20255	2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, PAST ARM MOUNTED
20222	8	EACH	PEDESTRIAN SIGNAL HEAD, ALUMINUM, 1-FACE, BRACKET MOUNTED
20301	4	EACH	TRAFFIC SIGNAL BACKPLATE
20329	4	EACH	TRAFFIC SIGNAL POST, FERROUS 14 FT.
20631	2	EACH	TRAFFIC SIGNAL POST, FERROUS 16 FT.
20636	2	EACH	STEEL PAST ARM ASSEMBLY AND POLE 24 FT.
20633	2	EACH	FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE III, 5 PHASES, IN TYPE IV CABINET
20617	2	EACH	TYPE BASE COORDINATING UNIT
206502	8	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
206504	4	EACH	INDUCTION LOOP DETECTOR AMPLIFIER WITH CALLING DETECTOR RELAY
20601	598	LIN. FT.	DETECTOR LOOP
20201	4	EACH	PEDESTRIAN PUSHBUTTON
20203	349	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1-1/4"
20204	158	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1-1/2"
20205	84	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2"
20206	89	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2-1/2"
* SPECIAL ITEM			

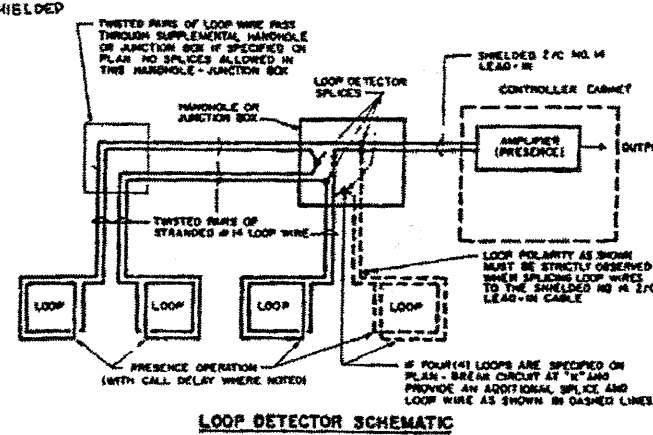
T42810	2	EACH	DRILL EXISTING HANDHOLE
T42007	18	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3"
T42008	15	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3-1/2"
T42009	10	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 4"
T42013	174	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 1-1/4"
T42014	79	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 1-1/2"
T42015	25	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 2"
T42017	99	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 3"
T42018	70	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 3-1/2"
T42061	58	LIN. FT.	UNIT DUCT, WITHOUT CABLE, IN TRENCH 1"
T42124	248	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 6 2/C
T42142	149	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C
T42145	109	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
T42141	717	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 5/C
T42114	512	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 7/C
T42186	1138	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C TWISTED, SHIELDED
X06340	31.2	SQ. FT.	PAVEMENT MARKING REMOVAL
T42605	1	EACH	SERVICE INSTALLATION, TYPE C
T42701	18	LIN. FT.	CONCRETE FOUNDATION, TYPE A
T42702	3.5	LIN. FT.	CONCRETE FOUNDATION, TYPE D
T42703	20	LIN. FT.	CONCRETE FOUNDATION, TYPE E 24-INCH DIAMETER
T42804	5	EACH	CONCRETE HANDHOLE
T42805	2	EACH	CONCRETE HEAVY-DUTY HANDHOLE
T42806	1	EACH	CONCRETE DOUBLE HANDHOLE
T43001	592	LIN. FT.	TRENCH AND BACKFILL
* T50102	950	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 4"
* T50104	460	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
* T50107	88	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
617046	133	SQ. FT.	SIDWALK REMOVAL AND REPLACEMENT
X04748	1	L. SUN	MOBILIZATION
X06346	310	LIN. FT.	PAVEMENT MARKING REMOVAL

**CABLE PLAN**

EACH LOOP LEAD-IN SHALL BE PLACED IN A SEPARATE CONDUIT FROM EDGE OF PAVEMENT TO HANDHOLE. SPACES BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6".

E. EACH LOOP DETECTOR SPlice SHALL BE AN INDIVIDUAL TYPE II OR TYPE III SPlice

F. LOOP TURNS AS RECOMMENDED BY THE MANUFACTURER



**LOOP DETECTOR SCHEMATIC**

**SCHEDULE OF SIGNAL HEADS**

4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12" LENSES, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12" LENSES, PAST ARM MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12" LENSES, PAST ARM MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, ALUMINUM, 1-FACE, 2-SECTION WITH 12" LENSES, BRACKET MOUNTED

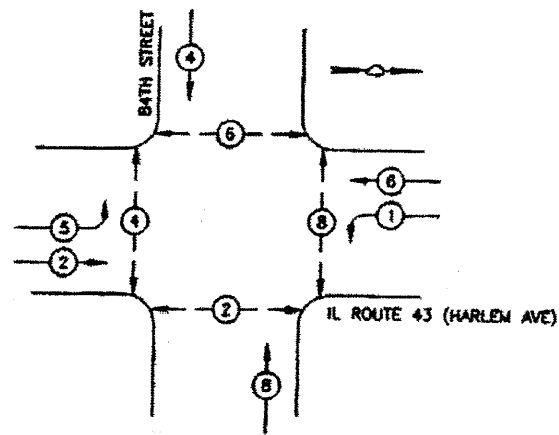
\* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT.

\* SEE PLAN BY CIVILTECH ENGINEERING, INC.

\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

LOCATION NO. 8

**CONTROLLER SEQUENCE**

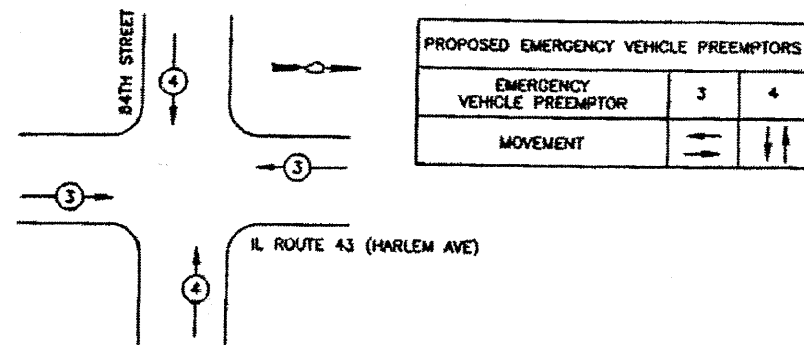


**LEGEND**

- DUAL ENTRY PHASE
- PEDESTRIAN MOVEMENT
- NUMBER REFERS TO ASSOCIATED PHASE

**EXISTING PHASE DESIGNATION DIAGRAM**

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**\* SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	306

\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

**SCHEDULE OF QUANTITIES**

IL ROUTE 43 (HARLEM AVE) / 84TH ST			
CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
29401220	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	222
63202530	TRAFFIC SIGNAL POST, GALVANNEE STEEL, 18 FT.	EACH	1
63002530	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
03502530	LIGHT DETECTOR ASSEMBLY	EACH	1
07501100	RELOCATE EXISTING SIGNAL HEAD	EACH	1
17502530	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
67502530	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
63002530	MODIFY EXISTING CONTROLLER CABINET	EACH	1
63002530	MODIFY EXISTING CONTROLLER CABINET	EACH	1
63002530	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C, TWISTED	FOOT	306
63002530	LIGHT DETECTOR, TYPE B	EACH	1

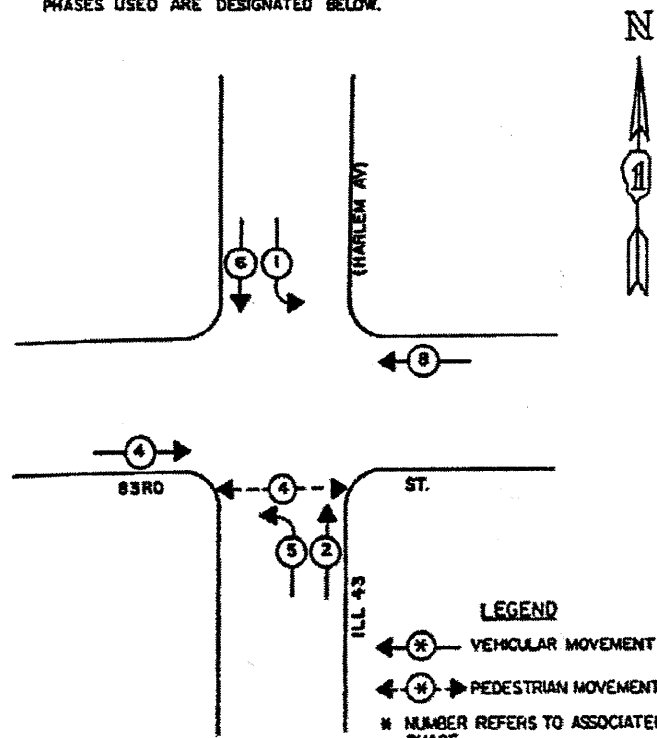
LOCATION NO. 8





**CONTROLLER SEQUENCE IV**

REFERRING TO STANDARD 23934, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



**PHASE DESIGNATION DIAGRAM**

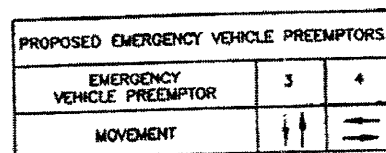
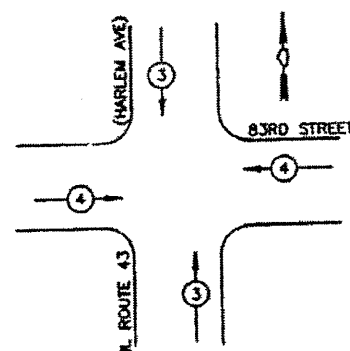
**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
1	EACH	FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE IV 8 PHASES, IN TYPE IV CABINET
1	EACH	TRANSCIVER
2	EACH	PEDESTRIAN PUSHBUTTON
133	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C
133	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
739	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 18 3 PAIR TWISTED, SHIELDED
4	EACH	REBUILD EXISTING SIGNAL HEAD
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6	EACH	RELOCATE EXISTING INDUCTION LOOP DETECTOR AMPLIFIER
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
136	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
101	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 24"

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE FORCES AS DESIGNATED BY THE ENGINEER.

1 EACH CONTROLLER & CABINET COMPLETE

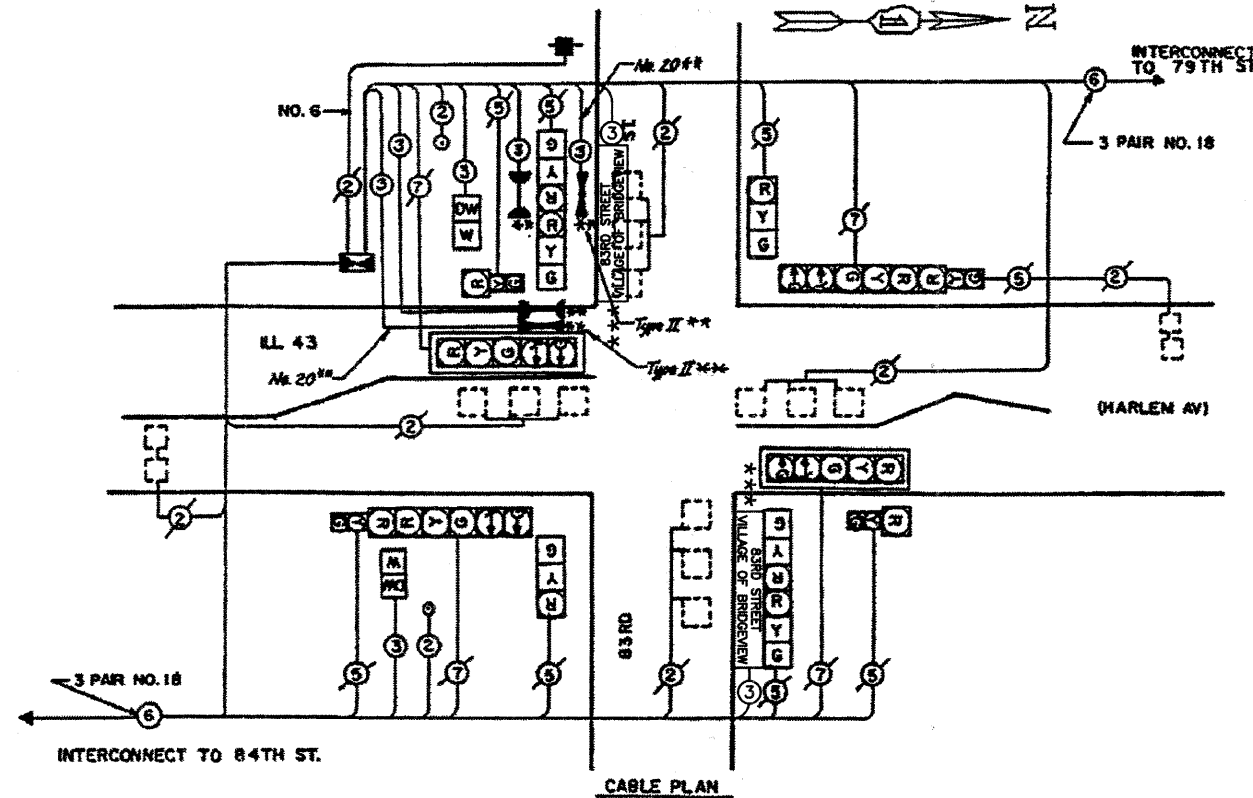
**\*\* EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**\*\*\* SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	289

**\*\* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT.**



**CABLE PLAN LEGEND**

- (S) 8" TRAFFIC SIGNAL SECTION
- (R) 12" TRAFFIC SIGNAL SECTION
- (C) CONTROLLER CABINET
- (I) SERVICE INSTALLATION
- (V) VEHICLE DETECTOR, INDUCTION LOOP
- (N) DENOTES NUMBER OF CONDUCTORS (NEW)
- (A) ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- (E) INDICATES EXISTING CABLE
- (M) MAGNETIC DETECTOR
- (O) OPTICAL DETECTOR, PROPOSED
- (S) SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED
- (R) EXISTING SIGNAL SECTION
- (P) PROPOSED CONFIRMATION BEACON # \*\*

\*\*\* HARLEM AVENUE VILLAGE OF BRIDGEVIEW

L.E.D. ILLUMINATED STREET NAME SIGN

**\*\* SCHEDULE OF QUANTITIES**  
 IL ROUTE 43 (HARLEM AVE) / 83RD ST

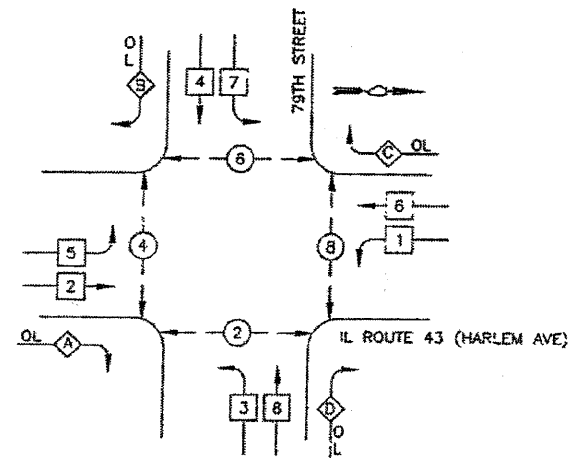
CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
82401220	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	FOOT	154
82202220	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT.	EACH	1
85000220	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
83200220	LIGHT DETECTOR AMPLIFIER	EACH	1
87200100	RELOCATE EXISTING SIGNAL HEAD	EACH	1
82402220	TRAFFIC CONTROL AND PROTECTION, STANDARD 70707	EACH	1
82200220	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED	FOOT	154
	LIGHT DETECTOR TYPE I	EACH	1

\*\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

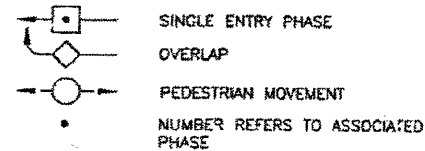
LOCATION NO. 9



**CONTROLLER SEQUENCE**



**LEGEND**



**EXISTING PHASE DESIGNATION DIAGRAM**

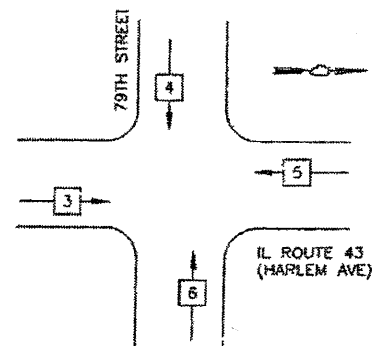
~~\* Prop. L.E.D. Pedestrian Signal Heads~~

SCHEDULE OF QUANTITIES			
IL ROUTE 43 (HARLEM AVE) / 79th ST			
CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
81018500	CONDUIT PUSHED, 2" DIA. GALVANIZED STEEL	FOOT	30
82401220	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	867
83800200	DRAWL EXISTING HARDWARE	EACH	2
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85000200	LIGHT DETECTOR AMPLIFIER	EACH	1
X0002200	TRAFFIC CONTROL AND PROTECTION STANDARD 701701	EACH	1
X0240250	ELECTRIC CABLE IN CONDUIT NO. 20 3C, TWISTED	FOOT	354
	LIGHT DETECTOR, TYPE III	EACH	2

**\*\* SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	867

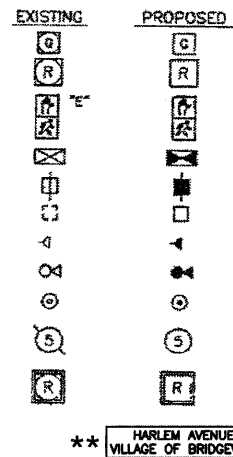
**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	[Symbol]	[Symbol]	[Symbol]	[Symbol]

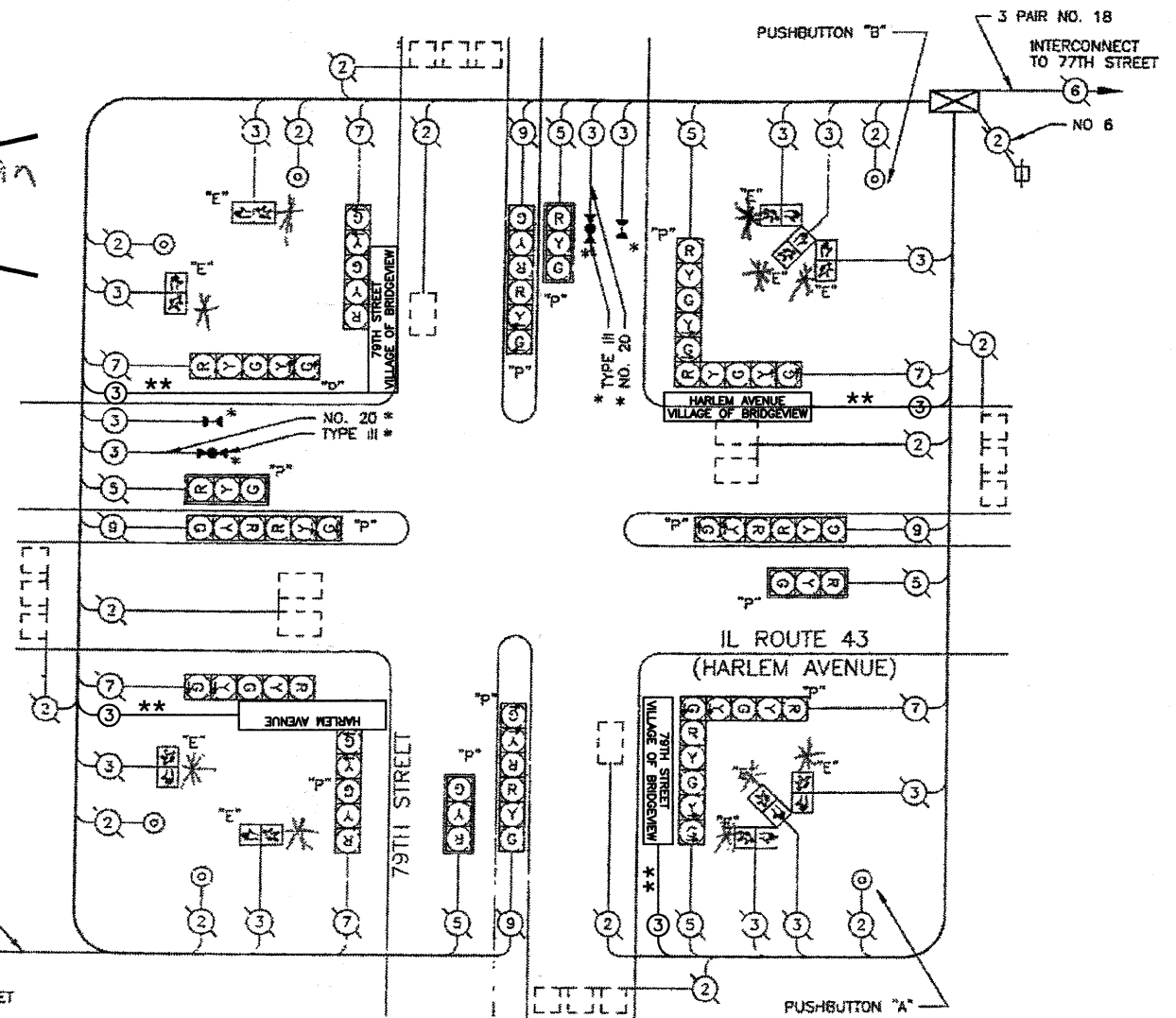
- 8" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- PUSHBUTTON DETECTOR
- DENOTES NUMBER OF CONDUCTORS
- ALL CABLE NO 14 EXCEPT AS INDICATED.
- ALL LOOP DETECTOR CABLE TO BE SHIELDED.
- SIGNAL FACE WITH BACKPLATE
- "P" INDICATES PROGRAMMED HEAD.
- L.E.D. ILLUMINATED STREET NAME SIGN

**CABLE PLAN LEGEND**



**CABLE PLAN**

NOT TO SCALE



**NOTES**

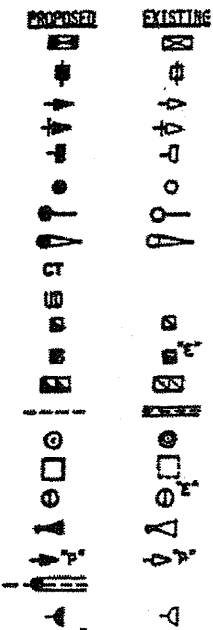
PUSHBUTTON "A" SHALL PLACE CALLS IN PHASES 2 AND 8  
 PUSHBUTTON "B" SHALL PLACE CALLS IN PHASES 6 AND 8

\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

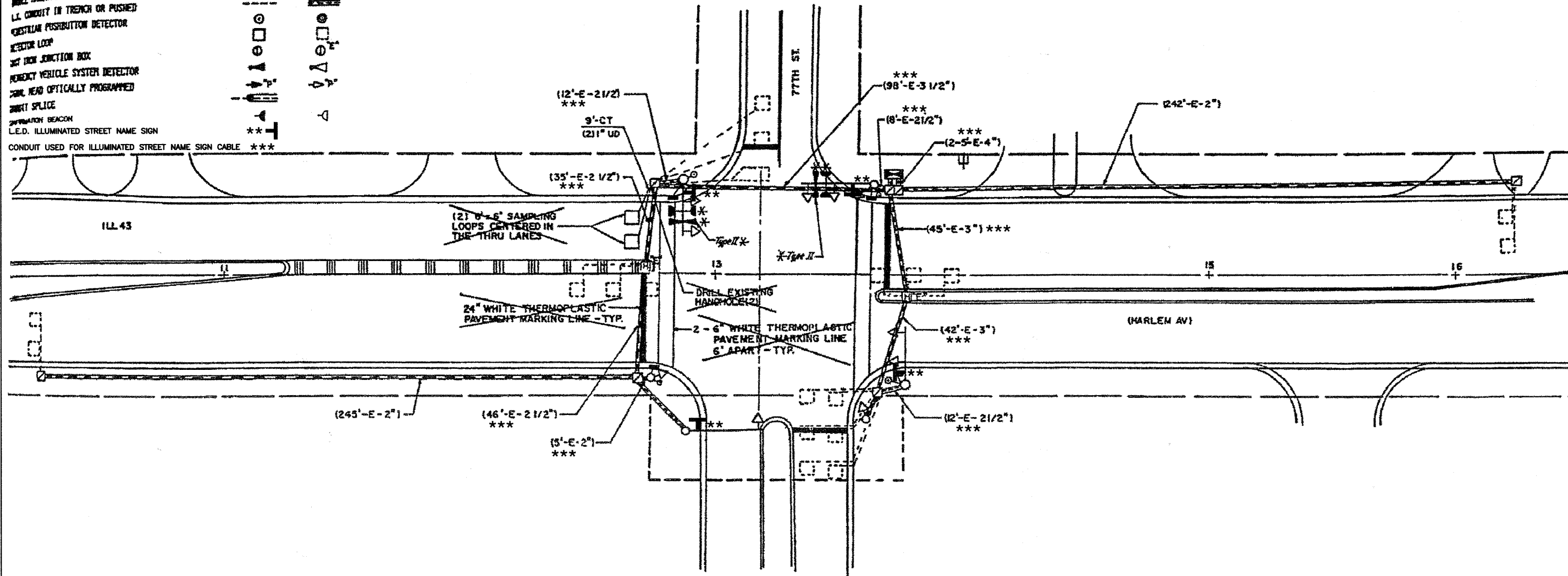
LOCATION NO. 10

TRAFFIC SIGNAL LEGEND

- SCROLLER
- OFFICE INSTALLATION
- ROUND HEAD
- ROUND HEAD WITH BACKPLATE
- ROUND HEAD, PEDESTRIAN
- ROUND POST
- MET MOUNT ASSEMBLY AND POLE, STEEL
- MET MOUNT ASSEMBLY AND POLE, ALUMINUM
- TRAFFIC TRENCH
- MET POST
- MINOR
- MINOR WITH HANDHOLE
- MINOR HANDHOLE
- L.I. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN POSITION DETECTOR
- RECEPTOR LOOP
- SET BACK JUNCTION BOX
- PROXIMITY VEHICLE SYSTEM DETECTOR
- ROUND HEAD OPTICALLY PROGRAMMED
- SHORT SPLICE
- SEPARATION BEACON
- L.E.D. ILLUMINATED STREET NAME SIGN
- CONDUIT USED FOR ILLUMINATED STREET NAME SIGN CABLE \*\*\*



\*\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

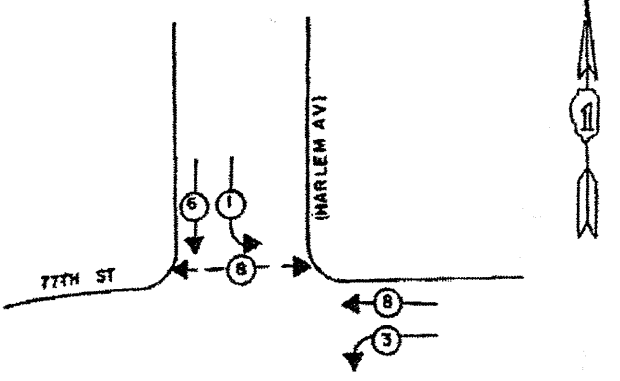


\* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT.

LOCATION NO. 11

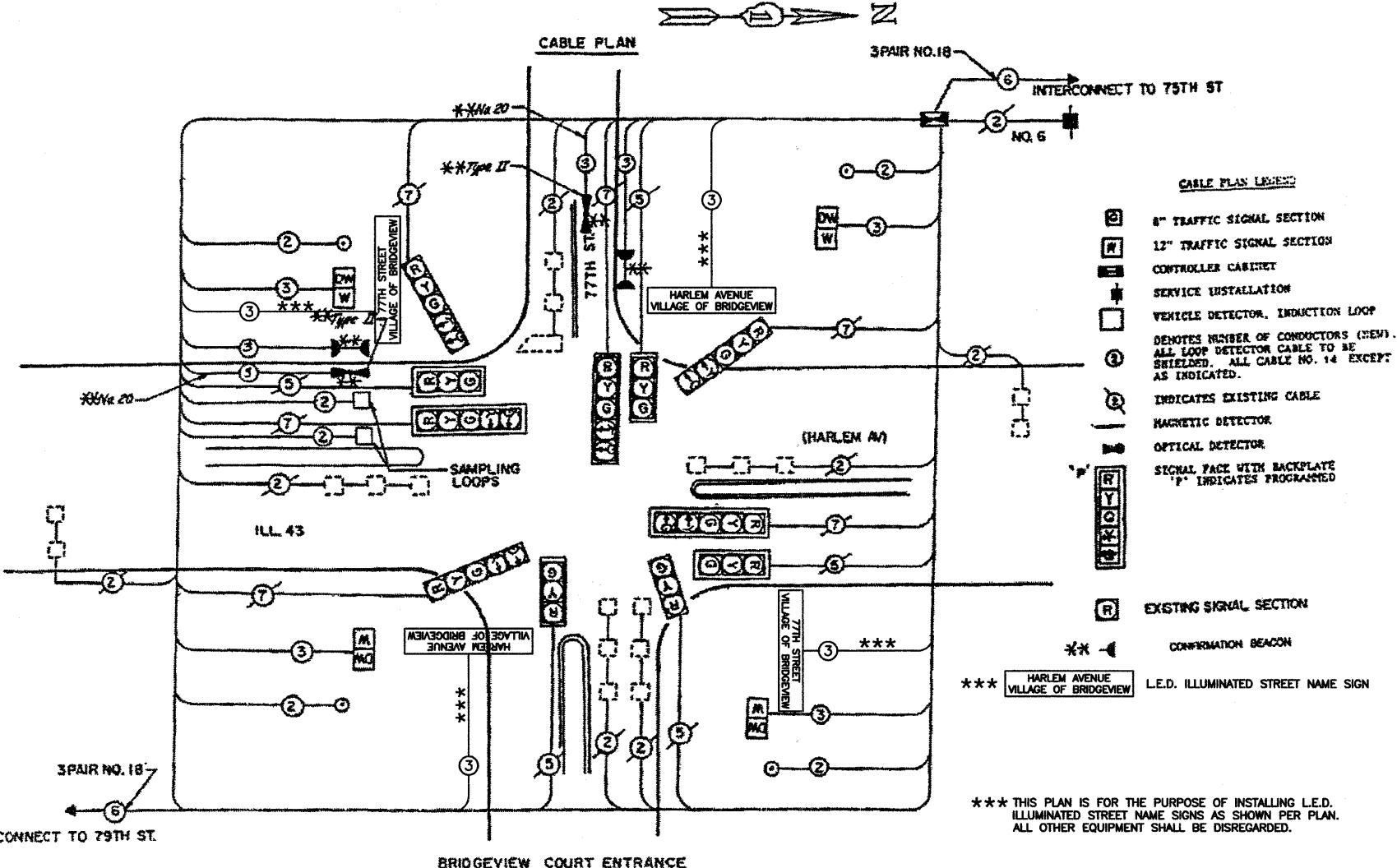
FILE NAME = 07441_02-PLAN-SIGN-01 - IDOT P08	USER NAME =	DESIGNED - MRS	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HARLEM AVENUE BEAUTIFICATION TRAFFIC SIGNAL MODIFICATION PLAN IL ROUTE 43 (HARLEM AVE) AND 77TH STREET	F.A.P. RTE. = 348	SECTION = 07-00055-01-SG	COUNTY = COOK	TOTAL SHEETS = 55	SHEET NO. = 44		
	PLOT SCALE =	CHECKED - PKB	REVISIONS -			SCALE: 1"=20'	SHEET NO. 44 OF 55 SHEETS	STA. TO STA.	CONTRACT NO. 63510			
	PLOT DATE = 10-21-10	DRAWN - RG	REVISIONS -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3482(001)						
		CHECKED - AG	REVISIONS -									

CONTROLLER SEQUENCE IV  
 REFERRING TO STANDARD 23934, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW



**LEGEND**  
 ← (\*) VEHICULAR MOVEMENT  
 ← (P) PEDESTRIAN MOVEMENT  
 \* NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



**CABLE PLAN LEGEND**

- ⊖ 8" TRAFFIC SIGNAL SECTION
- ⊖ 12" TRAFFIC SIGNAL SECTION
- ⊖ CONTROLLER CABINET
- ⊖ SERVICE INSTALLATION
- ⊖ VEHICLE DETECTOR, INDUCTION LOOP
- ⊖ DENOTES NUMBER OF CONDUCTORS (3EW), ALL LOOP DETECTOR CABLE TO BE SHIELDED, ALL CABLE NO. 14 EXCEPT AS INDICATED.
- ⊖ INDICATES EXISTING CABLE
- ⊖ MAGNETIC DETECTOR
- ⊖ OPTICAL DETECTOR
- ⊖ SIGNAL FACE WITH BACKPLATE
- ⊖ "P" INDICATES PROGRAMMED
- ⊖ EXISTING SIGNAL SECTION
- ⊖ CONFIRMATION BEACON
- ⊖ HARLEM AVENUE VILLAGE OF BRIDGEVIEW L.E.D. ILLUMINATED STREET NAME SIGN

\*\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

~~EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. ALL SHALL REMAIN THE PROPERTY OF THE STATE, AND SHALL BE STORED AS STATED IN SPECIAL PROVISIONS TO BE PICK UP BY STATE FORCE AS DESIGNATED BY THE NO.~~

- 1 EACH CONTROLLER CABINET COMPLETE
- 1 EACH TYPE BASE COORDINATOR

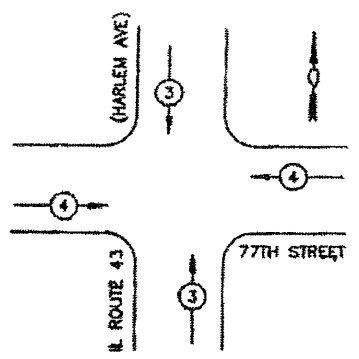
SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
1	EACH	FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE IV, 8 PHASES, IN TYPE IV CABINET
1	EACH	TRANSCIVER
4	EACH	PEDESTRIAN PUSHBUTTON
517	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C
517	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
732	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 18 3 PAIR TWINED, SHIELDED
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
264	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 1"
108	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 2"

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
2	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
66	LIN. FT.	DETECTOR LOOP, TYPE
18	LIN. FT.	DUCT DUCT, WITHOUT CABLE IN TRENCH 1"
244	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C TWISTED, SHIELDED
9	LIN. FT.	TRENCH AND BACKFILL
1	DRILL	DRILL EXISTING HANDHOLE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

SCHEDULE OF QUANTITIES

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
42401220	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	263
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
100000000	TRAFFIC CONTROL AND PROTECTION STANDARD 701769	EACH	1
200000000	ELECTRIC CABLE IN CONDUIT NO. 20 3C TWISTED	FOOT	263
300000000	LIGHT DETECTOR TYPE II	EACH	2
400000000	LIGHT DETECTOR AMPLIFIER	EACH	1

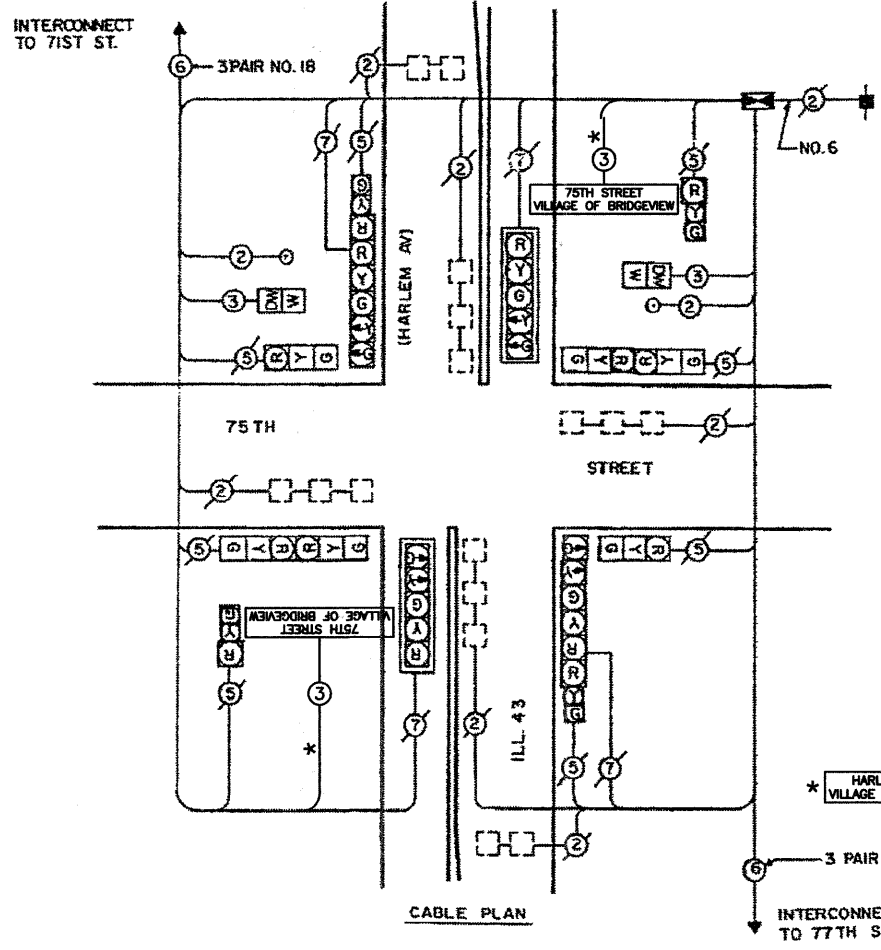
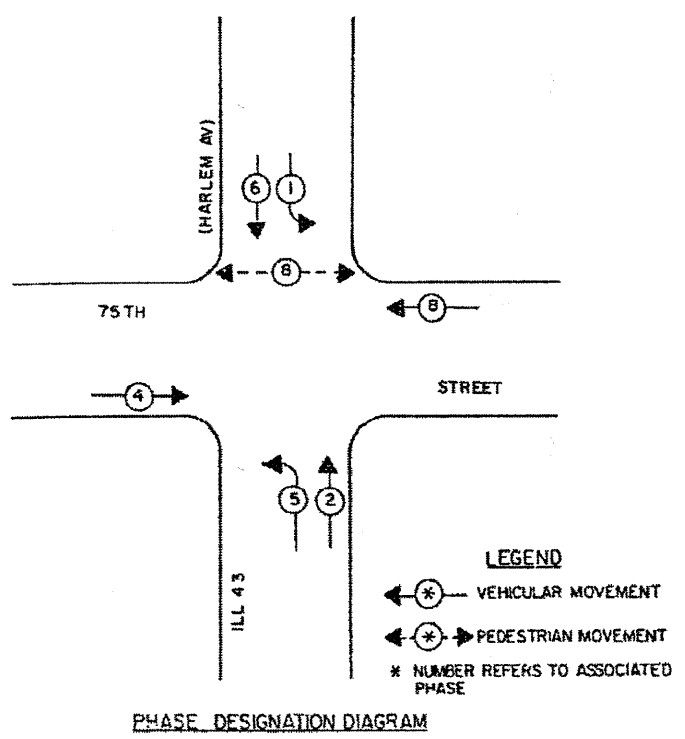
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	655

LOCATION NO. 11



CONTROLLER SEQUENCE IV  
 REFERRING TO STANDARD 2393 THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW



- CABLE PLAN LEGEND
- 8" TRAFFIC SIGNAL SECTION
  - 12" TRAFFIC SIGNAL SECTION
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR, INDUCTION LOOP
  - DENOTES NUMBER OF CONDUCTORS (NEW). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
  - INDICATES EXISTING CABLE
  - MAGNETIC DETECTOR
  - OPTICAL DETECTOR
  - SIGNAL FACE WITH BACKPLATE 'P' INDICATES PROGRAMMED
  - EXISTING SIGNAL SECTION
  - L.E.D. ILLUMINATED STREET NAME SIGN

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
1	EACH	FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE IV, 3 PHASES, IN TYPE IV CABINET
1	EACH	TRANSCIVER
176	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 2/C
176	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
754	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 18 3 PAIR TWISTED, SHIELDED
4	EACH	REBUILD EXISTING SIGNAL HEAD
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6	EACH	RELOCATE EXISTING INDUCTION LOOP DETECTOR
		AMPLIFIER
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
122	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
100	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
2	EACH	PEDESTRIAN PUSHBUTTON
1	EACH	REMOVE EXISTING JUNCTION BOX
1	EACH	CONCRETE HEAVY-DUTY HANDHOLE
1600	SQ. FT.	BARRIER MEDIAN REMOVAL AND PAVEMENT REPLACEMENT, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE FORCES AS DESIGNATED BY THE ENGINEER.

1 EACH CONTROLLER & CABINET COMPLETE

\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

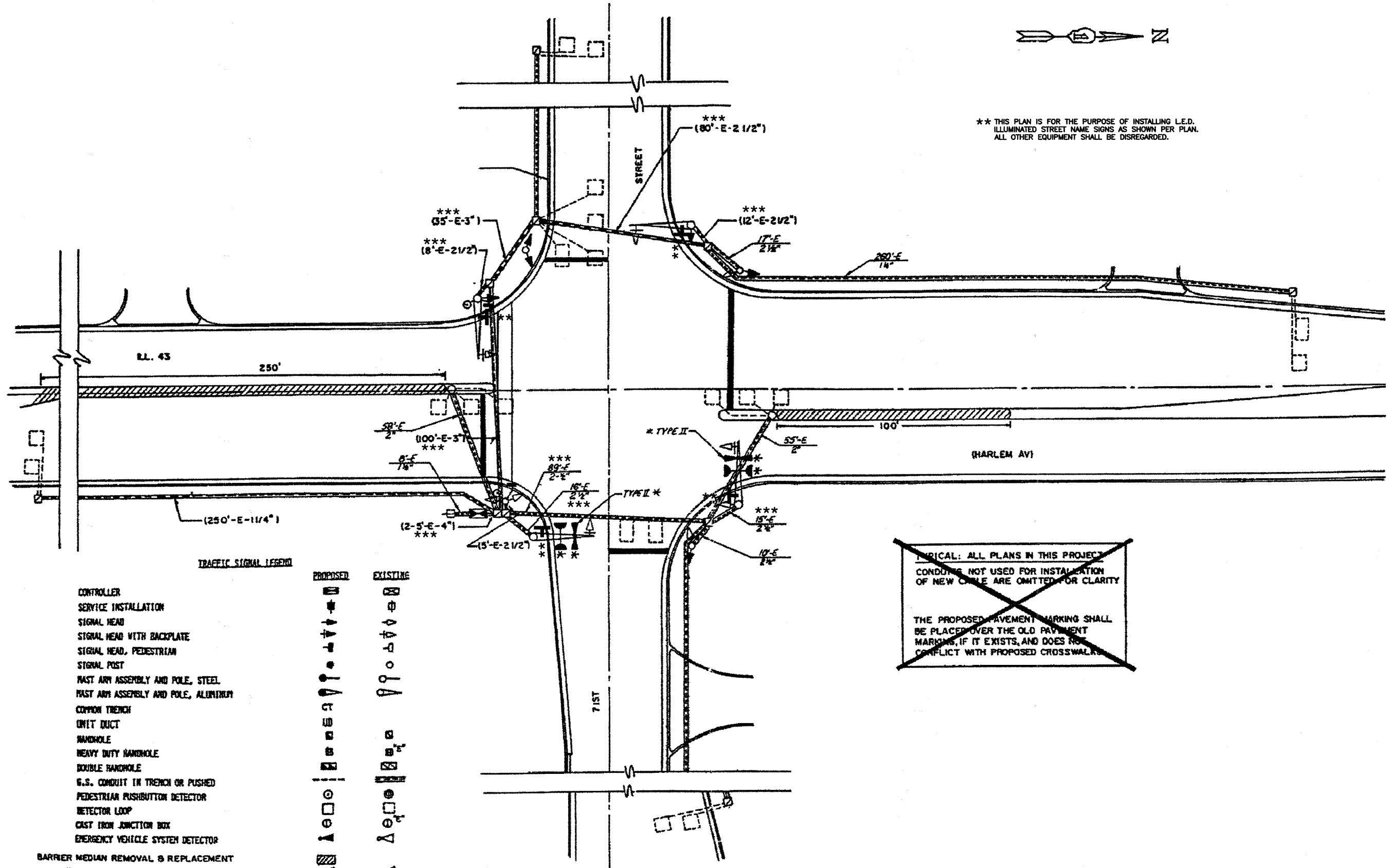
\* SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	304

LOCATION NO. 12



\*\*\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.



**TRAFFIC SIGNAL LEGEND**

- |   |          |          |
|---|----------|----------|
| CONTROLLER  | PROPOSED | EXISTING |
| SERVICE INSTALLATION                                |          |          |
| SIGNAL HEAD   |          |          |
| SIGNAL HEAD WITH BACKPLATE                          |          |          |
| SIGNAL HEAD, PEDESTRIAN                             |          |          |
| SIGNAL POST   |          |          |
| FAST ANY ASSEMBLY AND POLE, STEEL                   |          |          |
| FAST ANY ASSEMBLY AND POLE, ALUMINUM                |          |          |
| COMMON TRENCH                                       |          |          |
| CONDUIT DUCT  |          |          |
| HANDHOLE  |          |          |
| HEAVY DUTY HANDHOLE                                 |          |          |
| DOUBLE HANDHOLE                                     |          |          |
| G.S. CONDUIT IN TRENCH OR PUSHED                    |          |          |
| PEDESTRIAN PUSHBUTTON DETECTOR                      |          |          |
| DETECTOR LOOP                                       |          |          |
| CAST IRON JUNCTION BOX                              |          |          |
| EMERGENCY VEHICLE SYSTEM DETECTOR                   |          |          |
| BARRIER MEDIAN REMOVAL & REPLACEMENT                |          |          |
| * CONFIRMATION BEACON                               |          |          |
| L.E.D. ILLUMINATED STREET NAME SIGN                 |          |          |
| CONDUIT USED FOR ILLUMINATED STREET NAME SIGN CABLE |          |          |

~~UNUSUAL: ALL PLANS IN THIS PROJECT CONDUITS NOT USED FOR INSTALLATION OF NEW CABLE ARE OMITTED FOR CLARITY~~

~~THE PROPOSED PAVEMENT MARKING SHALL BE PLACED OVER THE OLD PAVEMENT MARKINGS, IF IT EXISTS, AND DOES NOT CONFLICT WITH PROPOSED CROSSWALKS~~

THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT.

LOCATION NO. 13

FILE NAME = 07441_02-PLAN-SIGN-01 - IDOT P01	USER NAME =	DESIGNED -- MRS	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HARLEM AVENUE BEAUTIFICATION TRAFFIC SIGNAL MODIFICATION PLAN IL ROUTE 43 (HARLEM AVE) AND 71ST STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -- PKB	REVISED --			348	07-00055-01-SG	COOK	55	48	
		DRAWN -- RG	REVISED --			CONTRACT NO. 63510					
		CHECKED -- AG	REVISED --			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)					
		PLOT SCALE =		SCALE: 1"=20'		SHEET NO. 48 OF 55 SHEETS		STA. TO STA.			



SEQUENCE OF OPERATIONS

MOVEMENT	SEQUENCE OF OPERATIONS																												FL																
	1+5				1+6				2+5				2+6				4+7				4+8																								
PHASE	1				2				3				4				5				6				7																				
INTERVAL	1	2	3	4	5	6	7A	7B	8A	8B	9	10A	10B	11A	11B	12	13A	13B	14A	14B	15	16	17A	17B	18A	18B	19	20	21A	21B	22A	22B	23	24	25	26A	26B	27A	27B						
CHANGE TO PHASE	1+6				2+6				4+7				4+8				1+5				2+5				1+6				2+6																
ILL 43 (HARLEM AV) S/B NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	G	Y	R	Y	R	Y	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILL 43 (HARLEM AV) S/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	G	Y	R	Y	R	Y	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILL 43 (HARLEM AV) N/B NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
ILL 43 (HARLEM AV) N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
71ST ST W/B NEAR RIGHT AND FAR RIGHT SIGNALS	G	G	Y	Y	G	G	Y	Y	G	G	Y	Y	G	G	Y	Y	G	G	Y	Y	G	G	Y	Y	G	G	Y	Y	G	G	Y	Y	G	G	Y	Y	G	G	Y	Y	G	G	Y	Y	
71ST ST W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
71ST ST E/B NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
71ST ST E/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
PED. SIGNALS X-ING ILL 43 (HARLEM AV) ON S. SIDE OF 71ST ST	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	

\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

- CABLE PLAN LEGEND
- (G) 8" TRAFFIC SIGNAL SECTION
  - (R) 12" TRAFFIC SIGNAL SECTION
  - (W) 12" PEDESTRIAN SIGNAL SECTION
  - [CABINET] CONTROLLER CABINET
  - [INSTALL] SERVICE INSTALLATION
  - [VEHICLE] VEHICLE DETECTOR, INDUCTION LOOP
  - (P) PUSHBUTTON DETECTOR
  - (N) DENOTES NUMBER OF CONDUCTORS (NEW). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
  - (2) INDICATES EXISTING CABLE
  - [SIGNAL] SIGNAL FACE WITH BACKPLATE \*# INDICATES PROGRAMMED
  - (R) EXISTING SIGNAL SECTION
  - [EMERGENCY] EMERGENCY VEHICLE SYSTEM DETECTOR CONFIRMATION BEACON
  - [L.E.D.] L.E.D. ILLUMINATED STREET NAME SIGN

\*\*\* SEE SHEET 6 FOR SEQUENCES

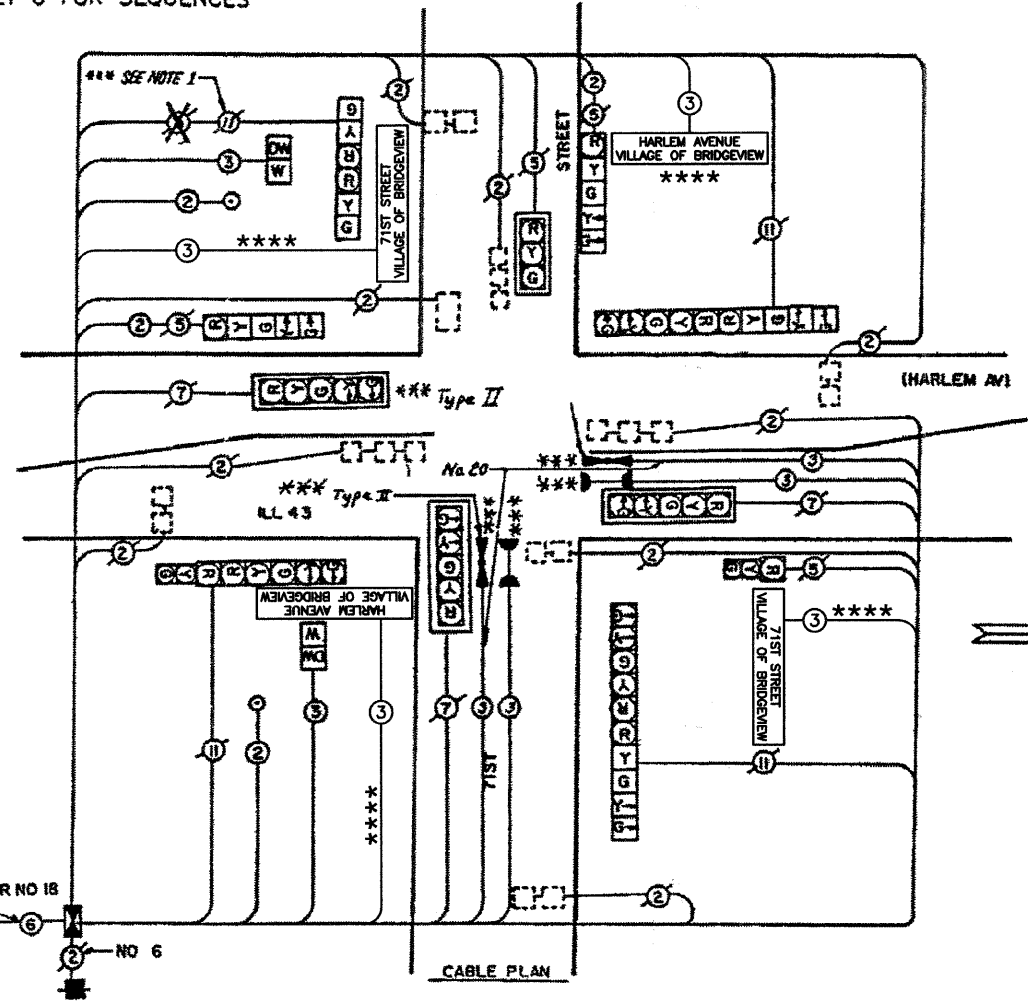
\* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION.  
 \*\* FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL.  
 ⊕ THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THRU MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	FULL-ACTUATED CONTROLLER, SPECIAL SEQUENCE PHASES, IN TYPE IV CABINET
1	EACH	TRANSCIEVER
2	EACH	PEDESTRIAN PUSHBUTTON
421	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 24 2/C
159	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
274	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 18 3 PAIR TWISTED, SHIELDED
5	EACH	REBUILD EXISTING SIGNAL HEAD
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8	EACH	RELOCATE EXISTING INDUCTION LOOP DETECTOR
1	EACH	AMPLIFIER
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
152	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
144	LIN. FT.	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
1400	SQ. FT.	BARRIER MEDIA REMOVAL AND PAVEMENT REPLACEMENT, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. SHALL REMAIN THE PROPERTY OF THE STATE, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE FORCES AS DESIGNATED BY THE CONTRACTOR.

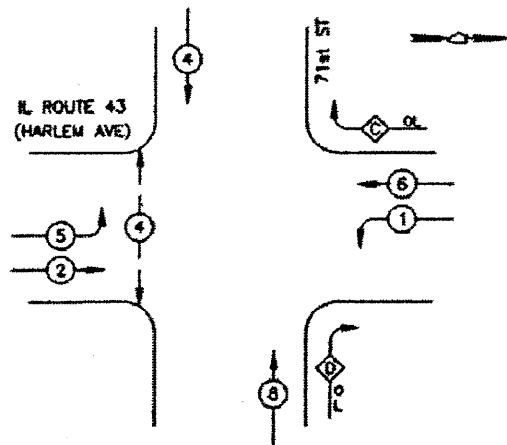
EACH CONTROLLER & CABINET COMPLETE



\*\*\* THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT  
 NOTE: \*\*\* THESE ITEMS WERE FIELD VERIFIED TO EXIST AS SHOWN

LOCATION NO. 13

**CONTROLLER SEQUENCE**



**LEGEND**

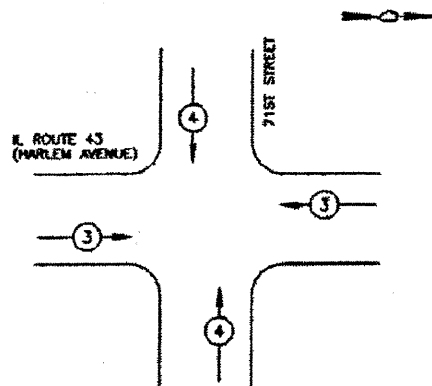
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN MOVEMENT
- NUMBER REFERS TO ASSOCIATED PHASE

**EXISTING PHASE DESIGNATION DIAGRAM**

* SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
ILLUMINATED STREET NAME SIGN	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	720

\* THIS PLAN IS FOR THE PURPOSE OF INSTALLING L.E.D. ILLUMINATED STREET NAME SIGNS AS SHOWN PER PLAN. ALL OTHER EQUIPMENT SHALL BE DISREGARDED.

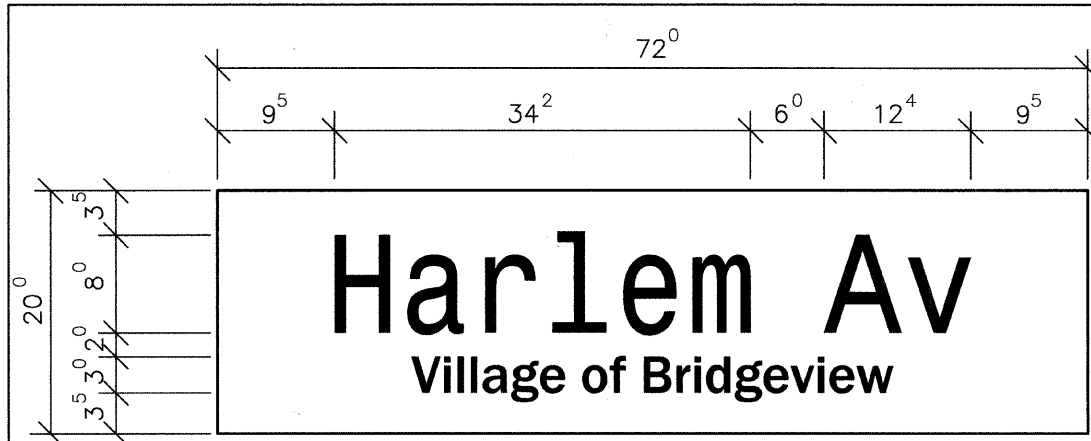
**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

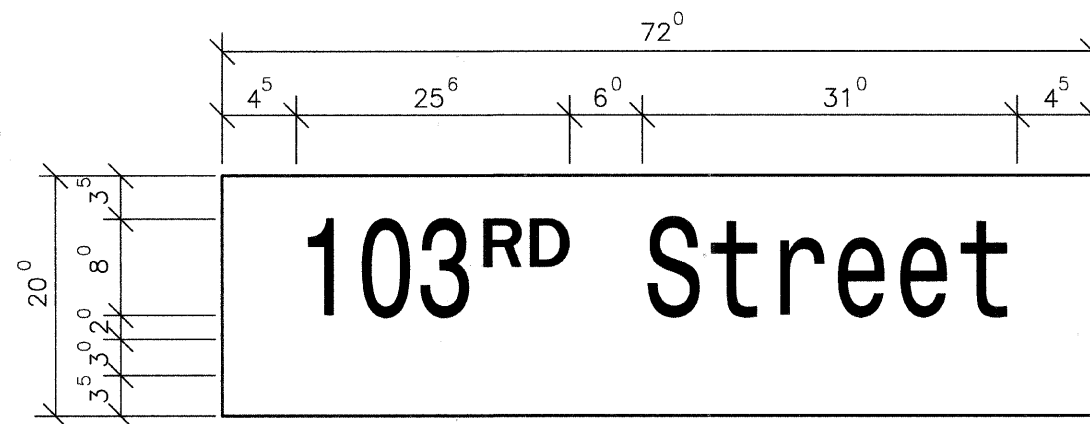
<del>SCHEDULE OF QUANTITIES</del>			
<del>IL ROUTE 43 (HARLEM AVE) / 79th ST</del>			
<del>CODE NUMBER</del>	<del>ITEM DESCRIPTION</del>	<del>UNIT</del>	<del>QUANTITY</del>
<del>1540720</del>	<del>ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C</del>	<del>FOOT</del>	<del>720</del>
<del>1540720</del>	<del>MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION</del>	<del>EACH</del>	<del>1</del>
<del>1540720</del>	<del>MODIFY EXISTING CONTROLLER CABINET</del>	<del>EACH</del>	<del>1</del>
<del>1540720</del>	<del>ILLUMINATED STREET NAME SIGN</del>	<del>EACH</del>	<del>4</del>

LOCATION NO. 13



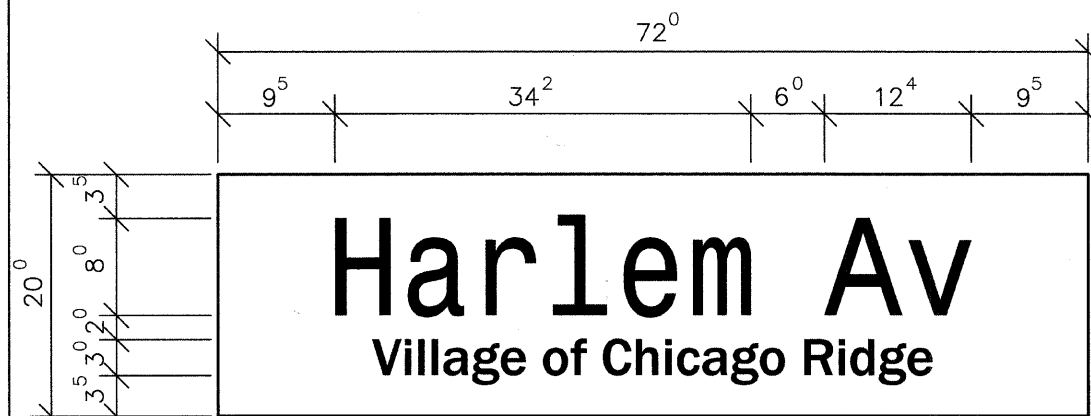
**Harlem Av**  
Village of Bridgeview

10.0 SQ. FT. EACH  
— DOUBLE SIDED REQUIRED  
DESIGN SERIES "D"  
CLEARVIEW FRONT



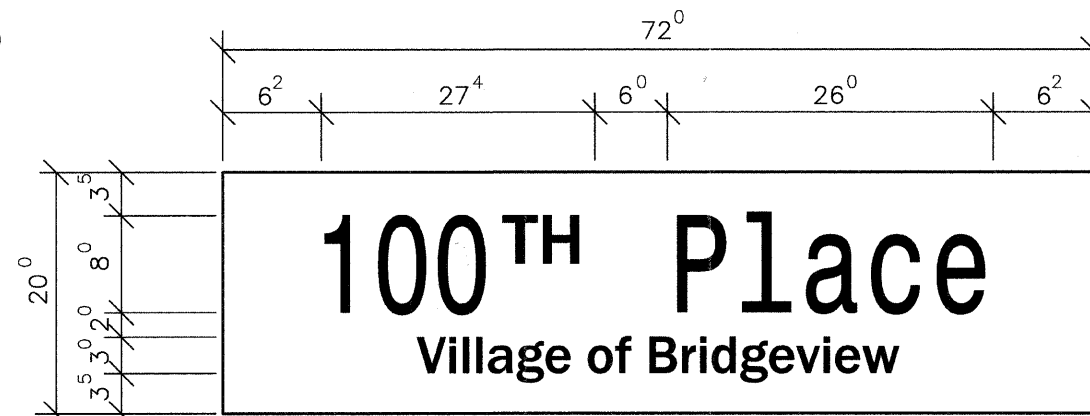
**103<sup>RD</sup> Street**

10.0 SQ. FT. EACH  
— DOUBLE SIDED REQUIRED  
DESIGN SERIES "D"  
CLEARVIEW FRONT



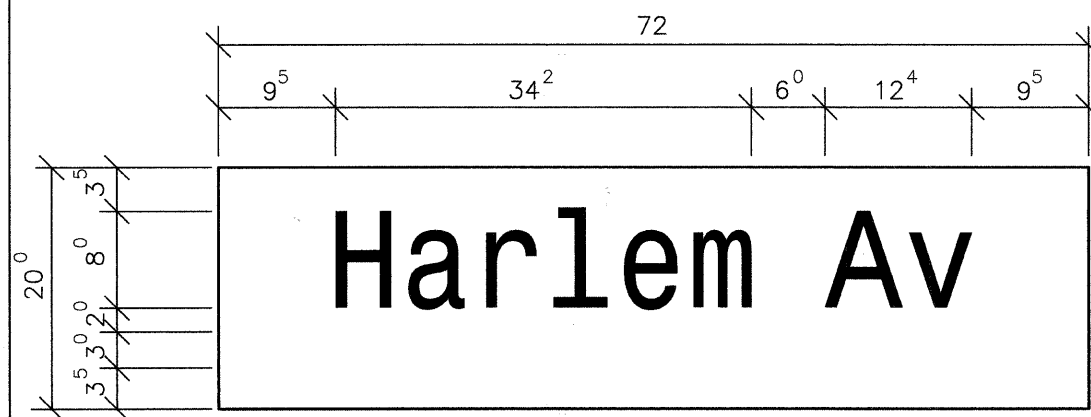
**Harlem Av**  
Village of Chicago Ridge

10.0 SQ. FT. EACH  
— DOUBLE SIDED REQUIRED  
DESIGN SERIES "D"  
CLEARVIEW FRONT



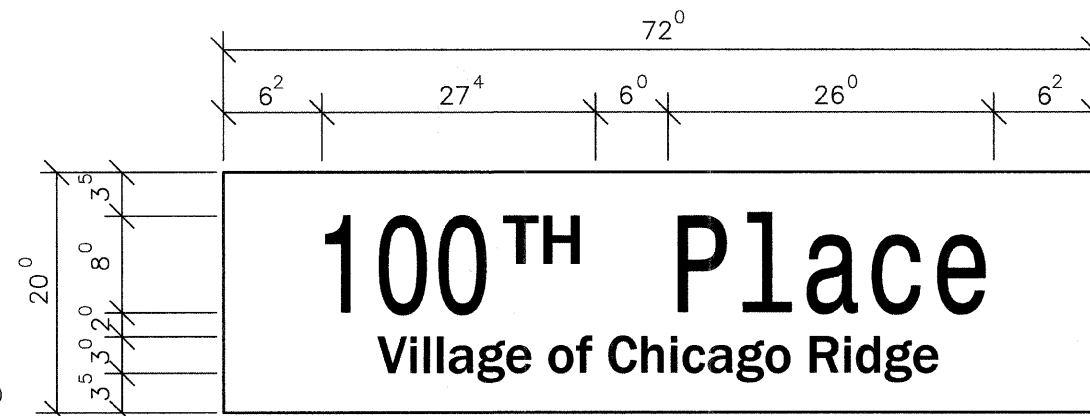
**100<sup>TH</sup> Place**  
Village of Bridgeview

10.0 SQ. FT. EACH  
— SINGLE SIDED REQUIRED  
— DOUBLE SIDED REQUIRED  
DESIGN SERIES "D"  
CLEARVIEW FRONT



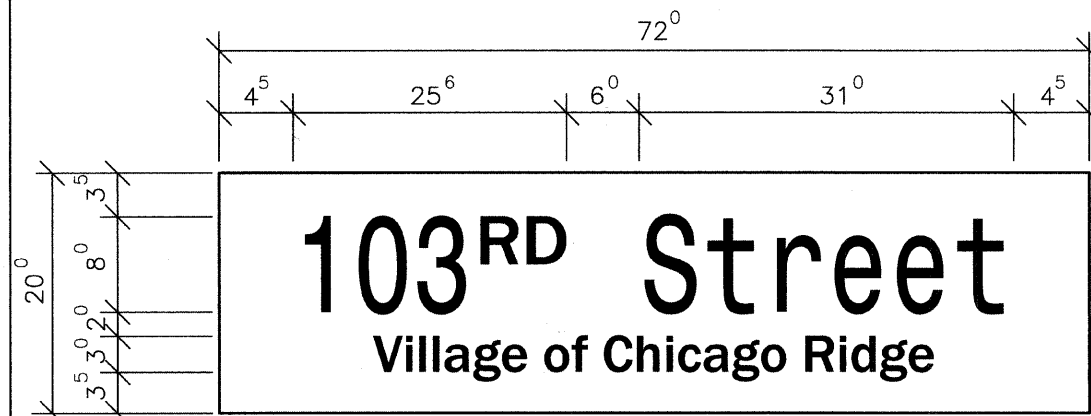
**Harlem Av**

10.0 SQ. FT. EACH  
— DOUBLE SIDED REQUIRED  
DESIGN SERIES "D"  
CLEARVIEW FRONT



**100<sup>TH</sup> Place**  
Village of Chicago Ridge

10.0 SQ. FT. EACH  
— SINGLE SIDED REQUIRED  
— DOUBLE SIDED REQUIRED  
DESIGN SERIES "D"  
CLEARVIEW FRONT



**103<sup>RD</sup> Street**  
Village of Chicago Ridge

10.0 SQ. FT. EACH  
— DOUBLE SIDED REQUIRED  
DESIGN SERIES "D"  
CLEARVIEW FRONT

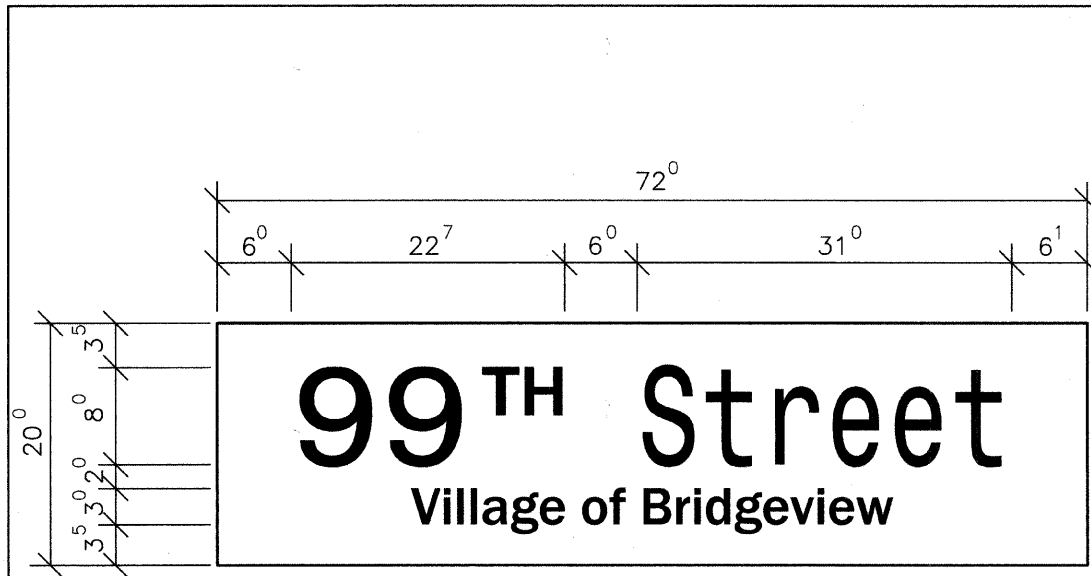
FILE NAME = 07441\_02-SIGN-01 - IDOT P01

USER NAME =	DESIGNED -- MRS	REVISED --
	CHECKED -- PKB	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 10-21-10	CHECKED -- AG	REVISED --

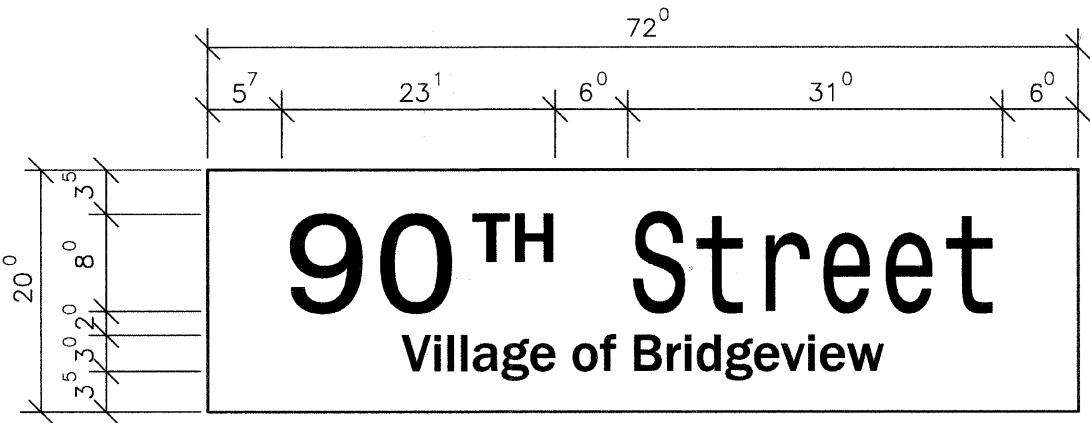
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HARLEM AVENUE BEAUTIFICATION			
MAST ARM MOUNTED			
STREET NAME SIGNS			
SCALE: NONE	SHEET NO. 51	OF 55 SHEETS	STA. TO STA.

F.A.P. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 51
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)				



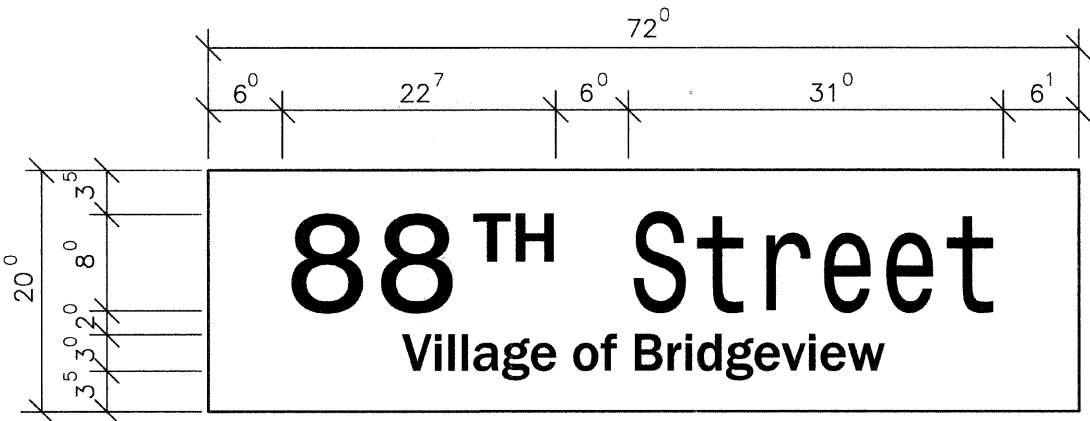
10.0 SQ. FT. EACH  
 — DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



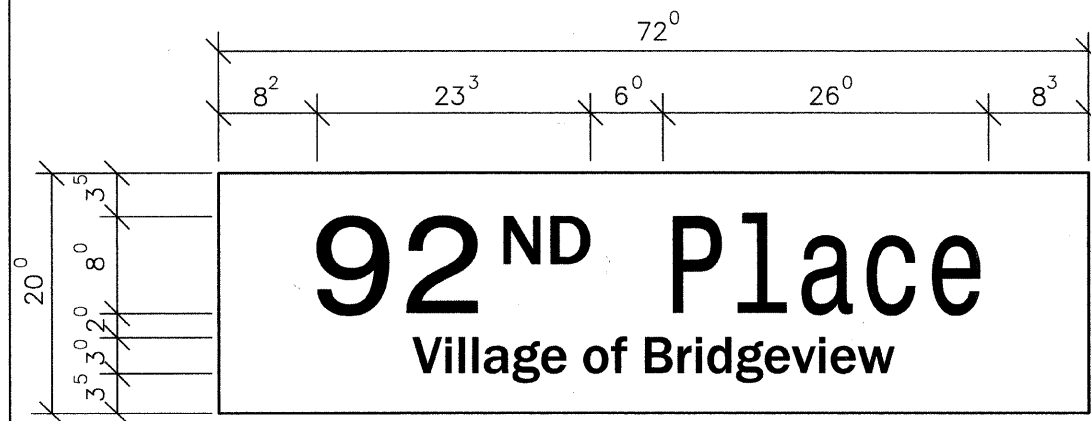
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 — SINGLE SIDED REQUIRED  
 — DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



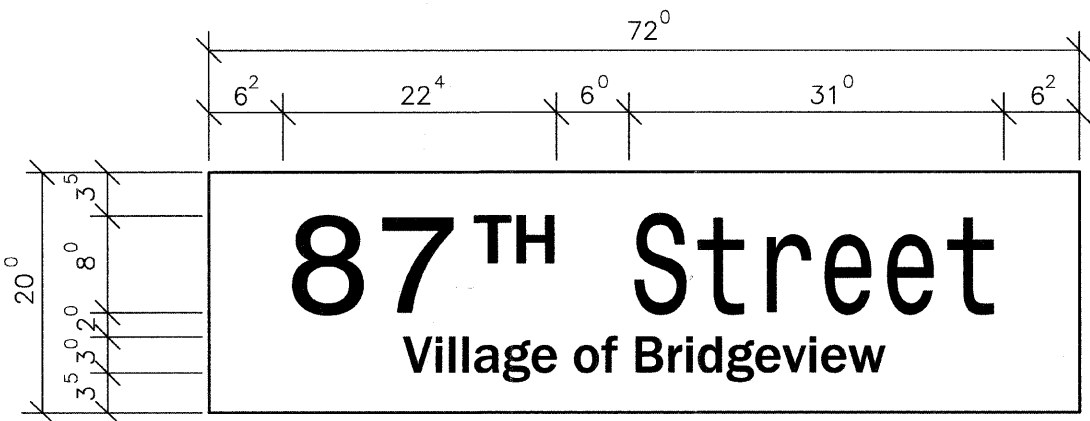
10.0 SQ. FT. EACH  
 — DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



10.0 SQ. FT. EACH  
 — DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



10.0 SQ. FT. EACH  
 — DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



10.0 SQ. FT. EACH  
 — DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT

FILE NAME = 07441\_02-SIGN-01 - IDOT P02

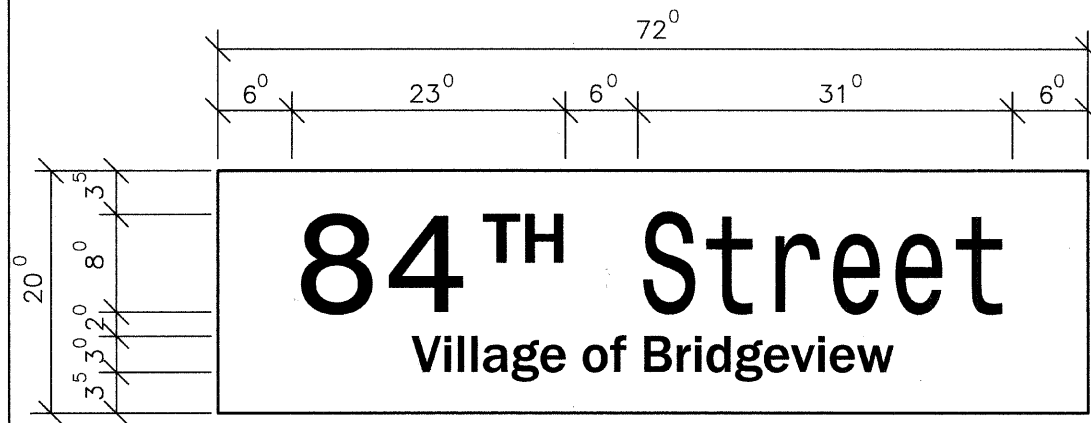
USER NAME =	DESIGNED -- MRS	REVISED --
	CHECKED -- PKB	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 10-21-10	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

HARLEM AVENUE BEAUTIFICATION  
 MAST ARM MOUNTED  
 STREET NAME SIGNS

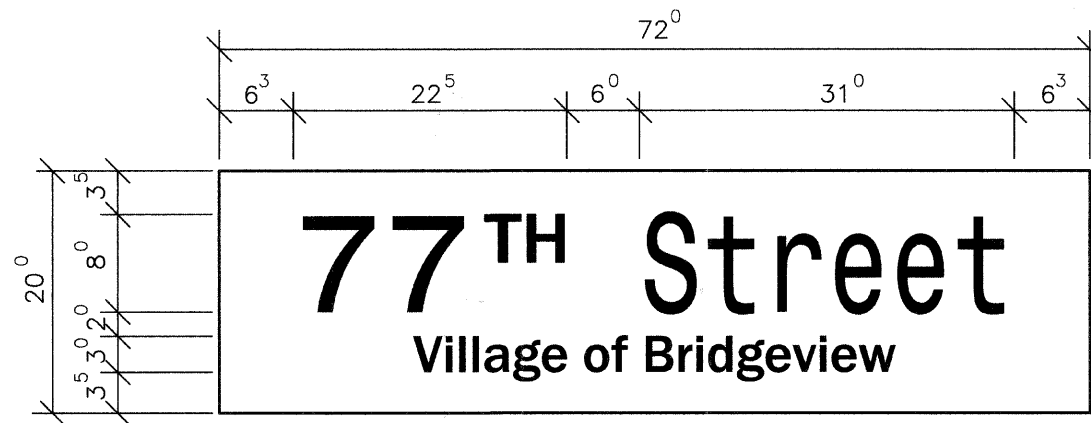
SCALE: NONE SHEET NO. 52 OF 55 SHEETS STA. TO STA.

F.A.P. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 52
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3482(001)				



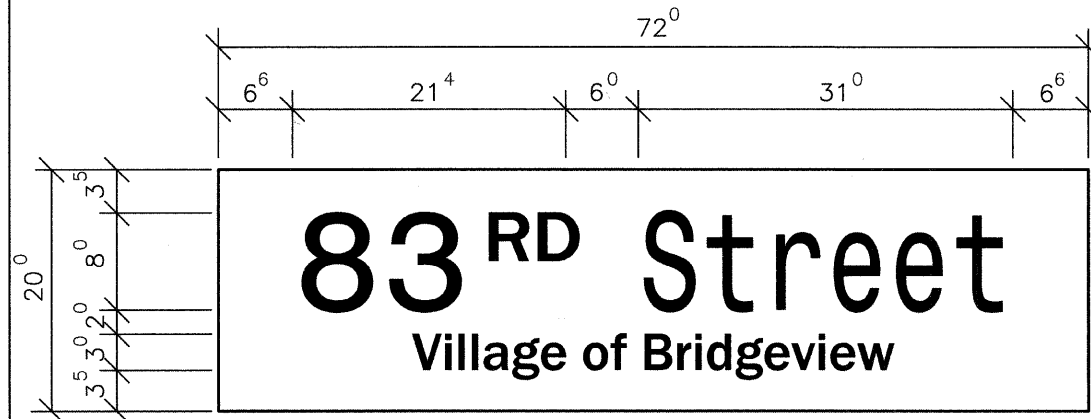
**84<sup>TH</sup> Street**  
Village of Bridgeview

10.0 SQ. FT. EACH  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 \_\_\_\_\_ DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



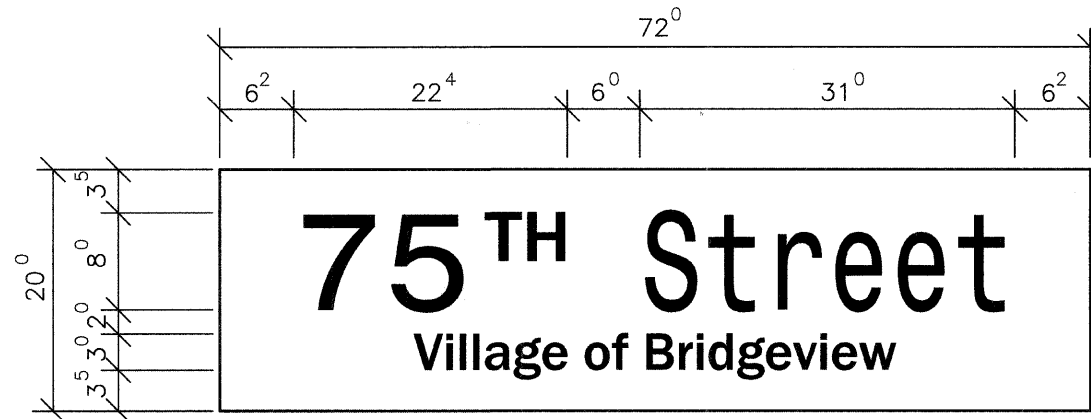
**77<sup>TH</sup> Street**  
Village of Bridgeview

10.0 SQ. FT. EACH  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 \_\_\_\_\_ DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



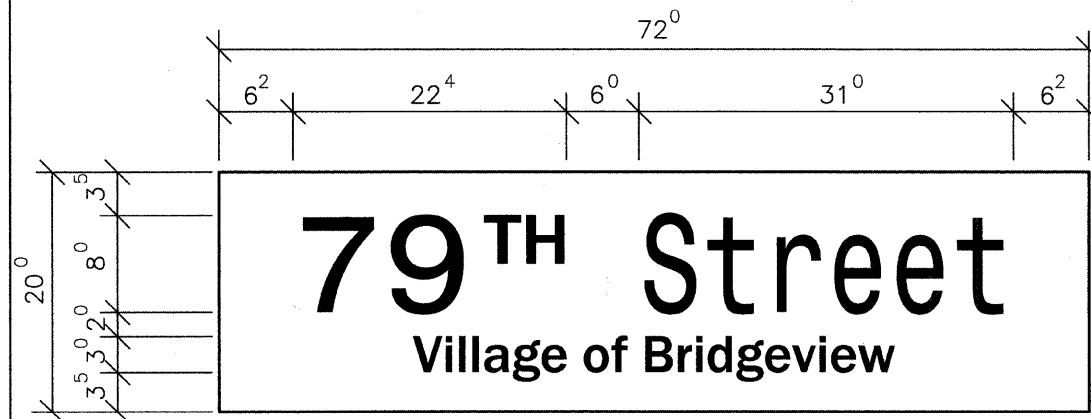
**83<sup>RD</sup> Street**  
Village of Bridgeview

10.0 SQ. FT. EACH  
 \_\_\_\_\_ DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



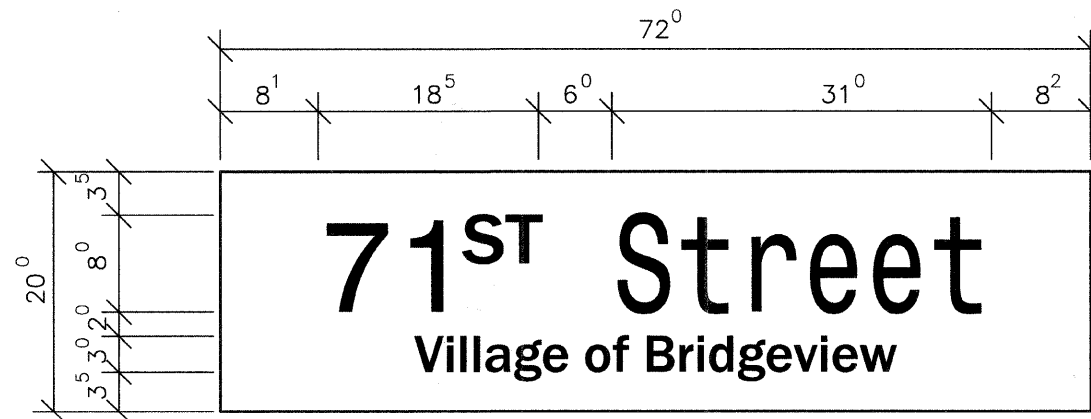
**75<sup>TH</sup> Street**  
Village of Bridgeview

10.0 SQ. FT. EACH  
 \_\_\_\_\_ DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



**79<sup>TH</sup> Street**  
Village of Bridgeview

10.0 SQ. FT. EACH  
 \_\_\_\_\_ DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT



**71<sup>ST</sup> Street**  
Village of Bridgeview

10.0 SQ. FT. EACH  
 \_\_\_\_\_ DOUBLE SIDED REQUIRED  
 DESIGN SERIES "D"  
 CLEARVIEW FRONT

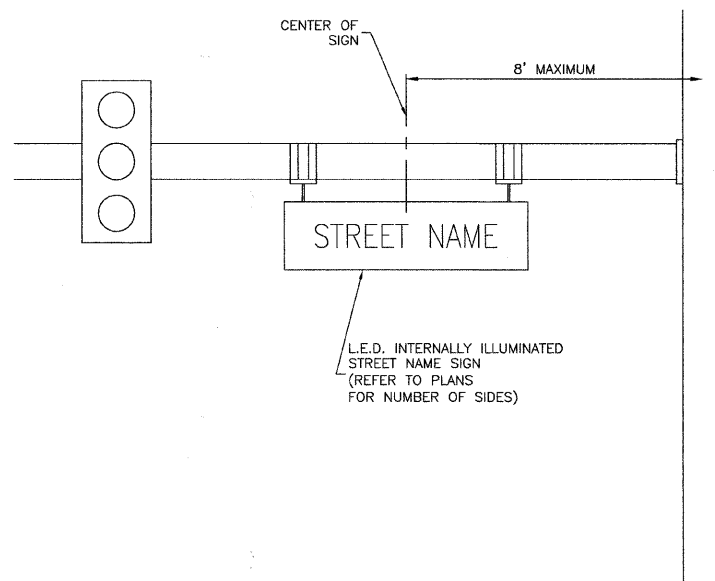
FILE NAME = 07441\_02-SIGN-01 - IDOT P03

USER NAME =	DESIGNED -- MRS	REVISED --
	CHECKED -- PKB	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 10-21-10	CHECKED -- AG	REVISED --

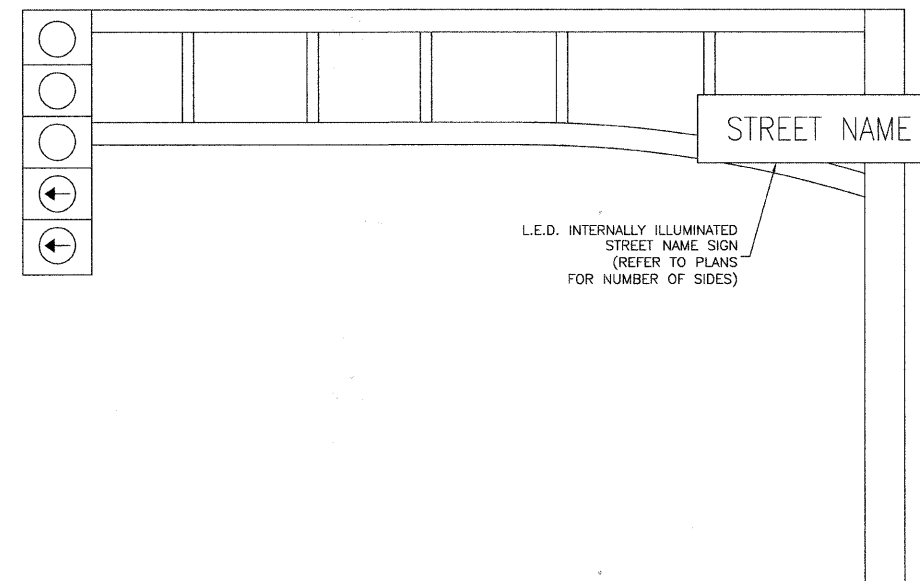
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HARLEM AVENUE BEAUTIFICATION MAST ARM MOUNTED STREET NAME SIGNS			
SCALE: NONE	SHEET NO. 53	OF 55 SHEETS	STA. TO STA.

F.A.P. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 53
CONTRACT NO. 63510				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)				

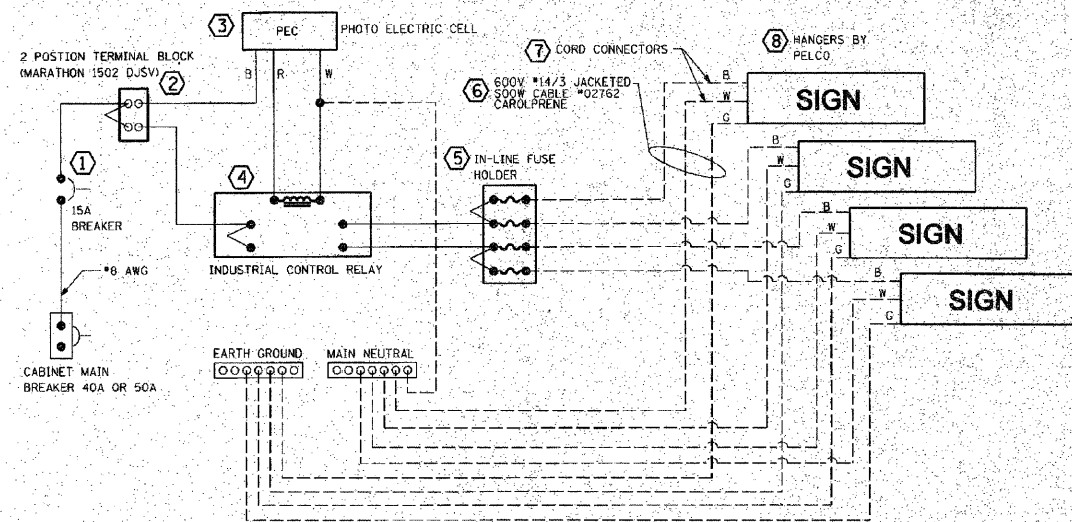


REGULAR STEEL MAST ARM ASSEMBLY AND POLE



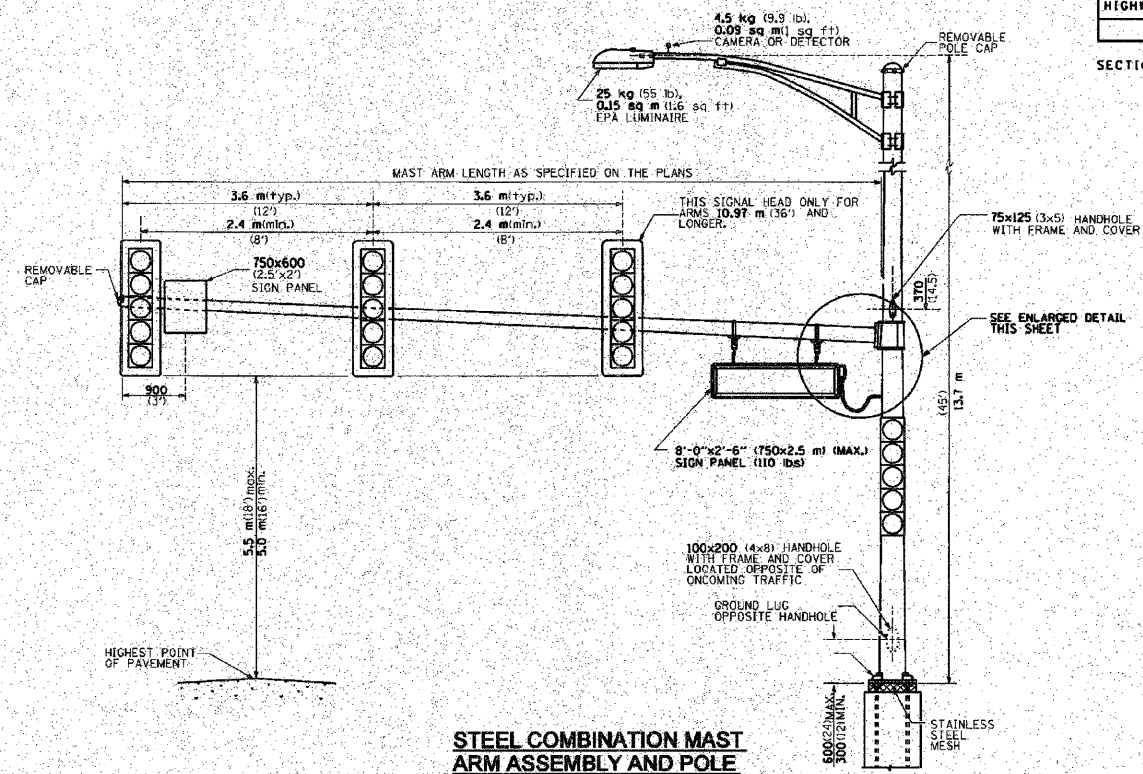
ALUMINUM MAST ARM ASSEMBLY AND POLE

FILE NAME = 07441_02-SIGN-01 - IDOT P04	USER NAME =	DESIGNED -- MRS	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HARLEM AVENUE BEAUTIFICATION MAST ARM MOUNTED STREET NAME SIGNS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- PKB	REVISED --				348	07-00055-01-SG	COOK	55	54
	PLOT SCALE =	DRAWN -- RG	REVISED --				CONTRACT NO. 63510				
	PLOT DATE = 10-21-10	CHECKED -- AG	REVISED --				SCALE: NONE SHEET NO. 54 OF 55 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3462(001)				

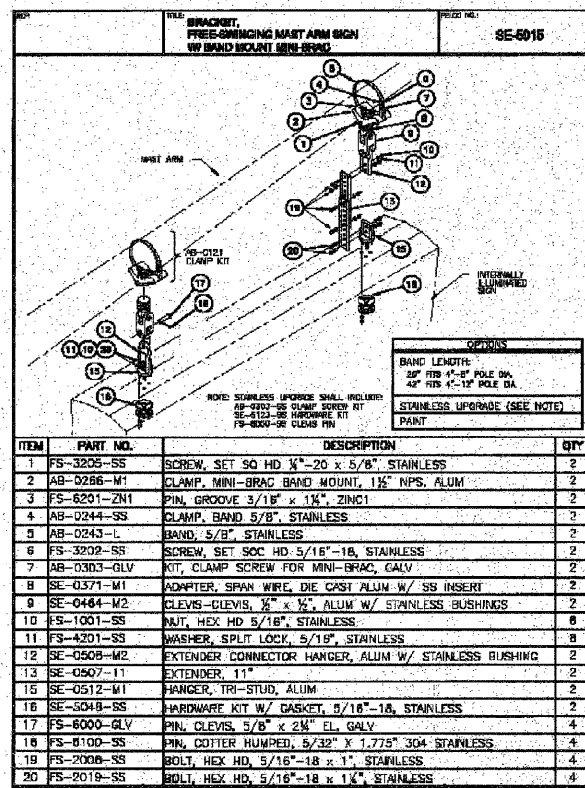


**LED SIGN WIRING DETAIL**

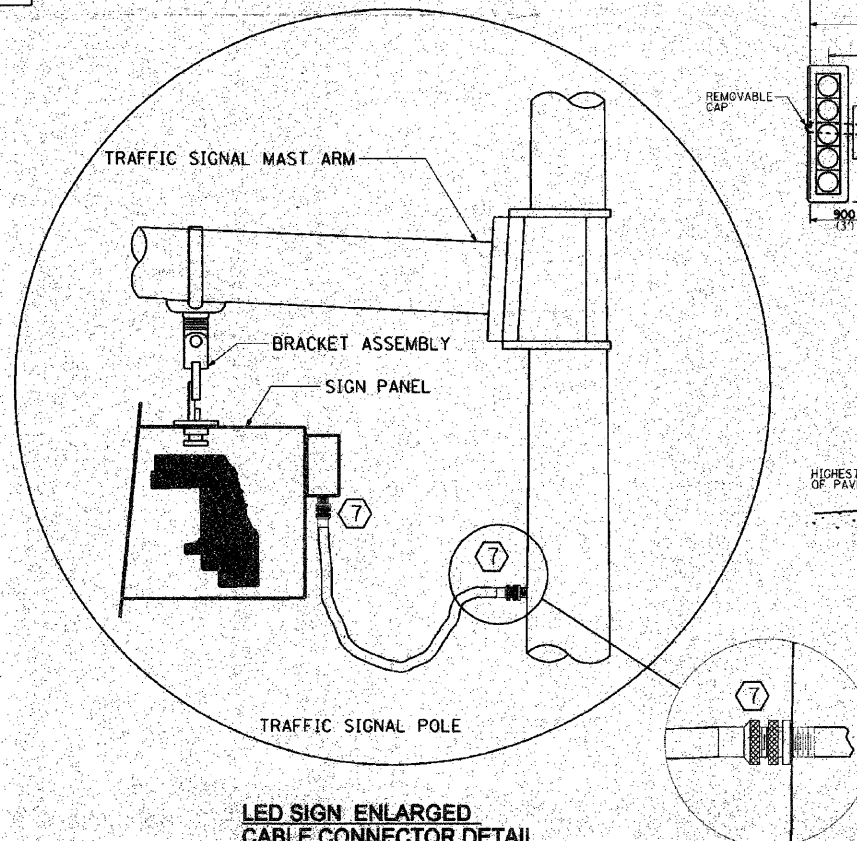
DESCRIPTION	MANUFACTURER	MODEL	NOTES
1. CIRCUIT BREAKER		15 AMPERE	
2. TERMINAL BLOCK	MARATHON	1502 DJSV	
3. PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
4. CONTRACTOR (INDUSTRIAL CONTROL RELAY)	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
5. IN-LINE FUSE HOLDER WITH 5 AMP FUSE	BÜSSMANN	S-8000 BK/5-8-3-4-R	
6. ELECTRIC CABLE, No. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE /S00W	02762	
7. CORD/CABLE CONNECTOR	APPLETON	CG5050S (STEEL)	
8. SIGN MOUNTING HARDWARE	PELCO	SE-5015	



**STEEL COMBINATION MAST ARM ASSEMBLY AND POLE**

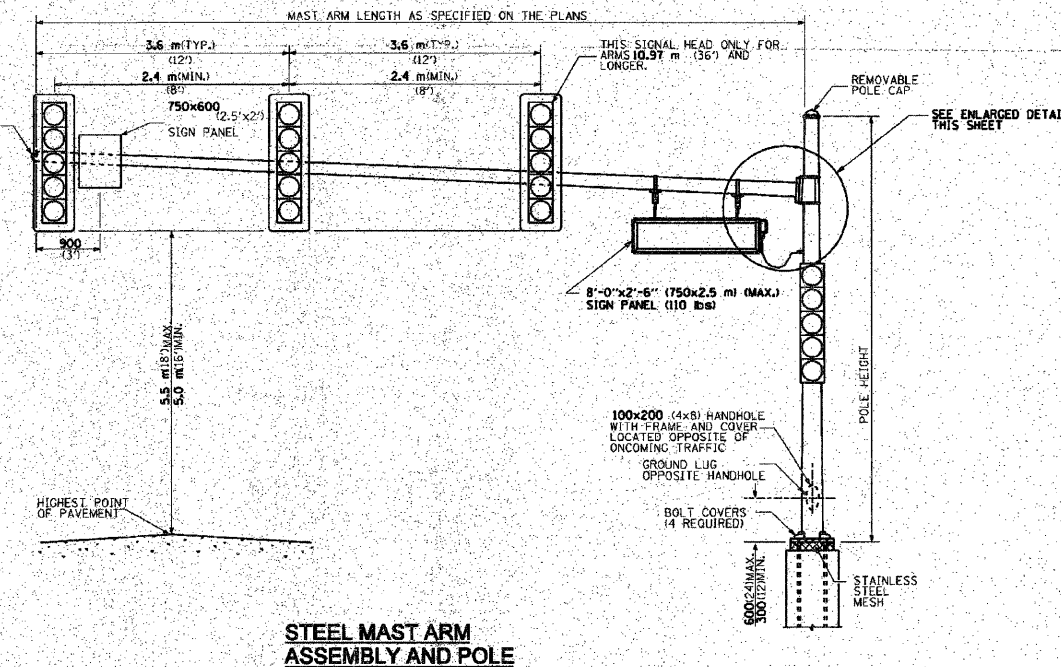


**LED SIGN BRACKET DETAIL**



**LED SIGN ENLARGED CABLE CONNECTOR DETAIL**

**LED SIGN ENLARGED CABLE CONNECTOR DETAIL**



**STEEL MAST ARM ASSEMBLY AND POLE**

**GENERAL NOTE:**

- SIGNAL HEADS, SIGN PANELS, AND OTHER ATTACHMENT ARE SHOWN FOR MINIMUM DESIGN LOADING PURPOSES ONLY. EACH SIGNAL HEAD SHALL WEIGH 36 Kg (80 lb) AND HAVE A PROJECTED AREA OF 1.37 sq. m (14.7 sq. ft.).
- PHOTO ELECTRIC CELL IS TO BE MOUNTED ABOVE CABINET DOOR.
- THE SIGN SHALL BE LOCATED AT A MAXIMUM OF 8' FROM CENTER OF SIGN TO POLE.
- SIGN IS TO BE MOUNTED A MINIMUM OF 16' ABOVE PAVEMENT.

COUNTY OF COOK  
DEPARTMENT OF HIGHWAYS  
ILLUMINATED STREET NAME SIGN MOUNTING DETAIL

COMPUTED BY: [Signature] APPROVED BY: [Signature]  
DRAWN BY: [Signature] CHECKED BY: [Signature]

FILE NAME = 07441\_02-07LS-02 - IDOT P01

USER NAME =	DESIGNED - MRS	REVISED -
	CHECKED - PKB	REVISED -
PLOT SCALE =	DRAWN - RG	REVISED -
PLOT DATE = 10-21-10	CHECKED - AG	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HARLEM AVENUE BEAUTIFICATION  
FROM SOUTHWEST HIGHWAY TO 65TH STREET  
CONSTRUCTION DETAILS

SCALE: NONE SHEET NO. 55 OF 55 SHEETS STA. TO STA.

F.A.P. RTE. 348	SECTION 07-00055-01-SG	COUNTY COOK	TOTAL SHEETS 55	SHEET NO. 55
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT HPP-3482(001)

CONTRACT NO. 63510