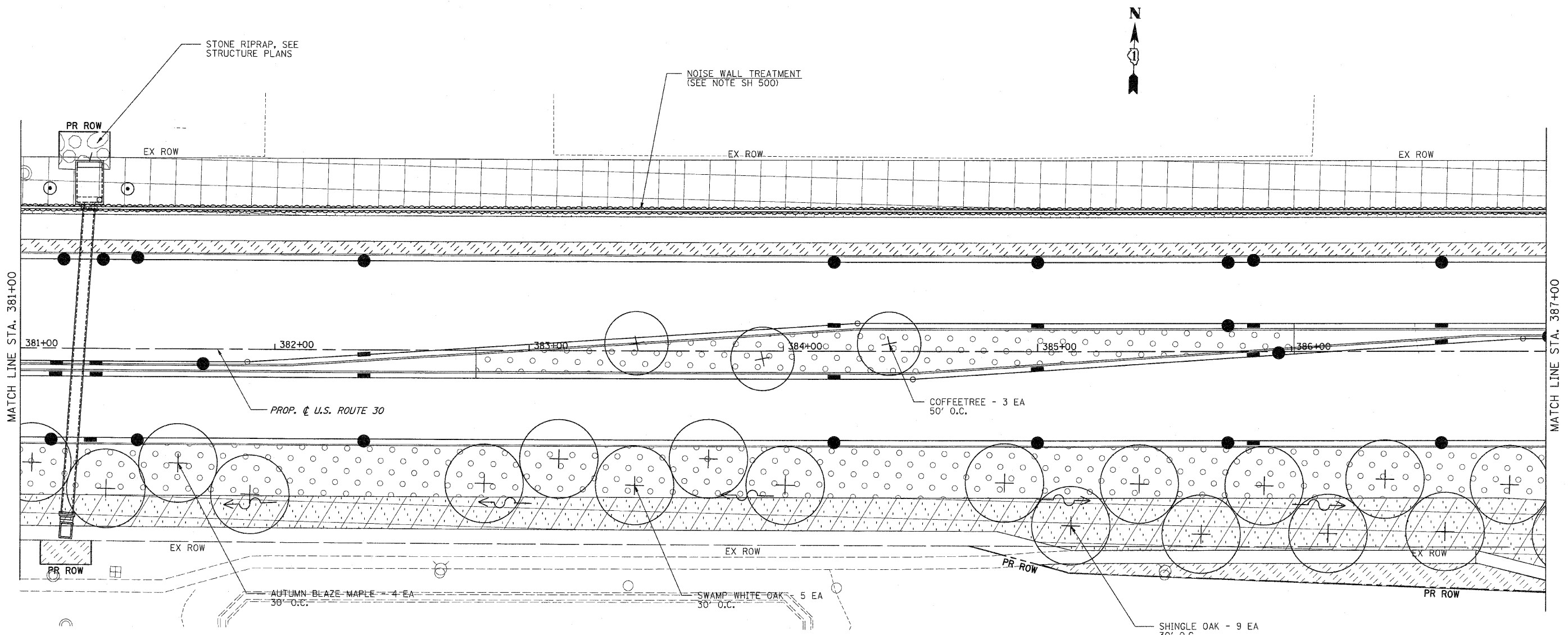


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	02&13/WRS-3	WILL	1235	501
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62479				



**LEGEND**

	SODDING, SALT TOLERANT		STONE RIPRAP, CLASS AS SPECIFIED
	SEEDING, CLASS 2A		SEEDING, CLASS 4B (MODIFIED) WETLAND MIX
	SEEDING, CLASS 4 & 5A COMBINED		EXISTING SODDING
	SEEDING, CLASS 4		EXISTING SEEDING, CLASS 4
	SEEDING, CLASS 1		
	PERENNIAL PLANTS		

**LANDSCAPING GENERAL NOTES**

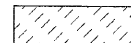
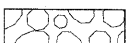
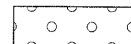



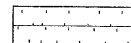

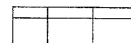
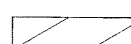
1. TOPSOIL FURNISH AND PLACE, 8" SHALL BE USED IN PARKWAYS (WITH AND WITHOUT SIDEWALKS) ALONG U.S. 30 TO FACILITATE PROPOSED STREET TREE PLANTING. THIS AREA IS BETWEEN THE BACK OF CURB AND THE SIDEWALK (OR CENTERLINE OF THE DITCH) OR GENERALLY WITHIN 20' OF THE CURB.
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3. COMPOST FURNISH AND PLACE, 4" SHALL BE USED WITH SEEDING CLASS 4 AND CLASS 5A.
4. TOPSOIL FURNISH AND PLACE, 4" SHALL BE USED AT ALL OTHER LOCATIONS NOT COVERED BY NOTES 1, 2, & 3.
5. SEE SHEET 509A FOR SCHEDULE OF PERENNIAL PLANTS WHEN PLANTS ARE NOT LISTED WITH THE CALLOUT.

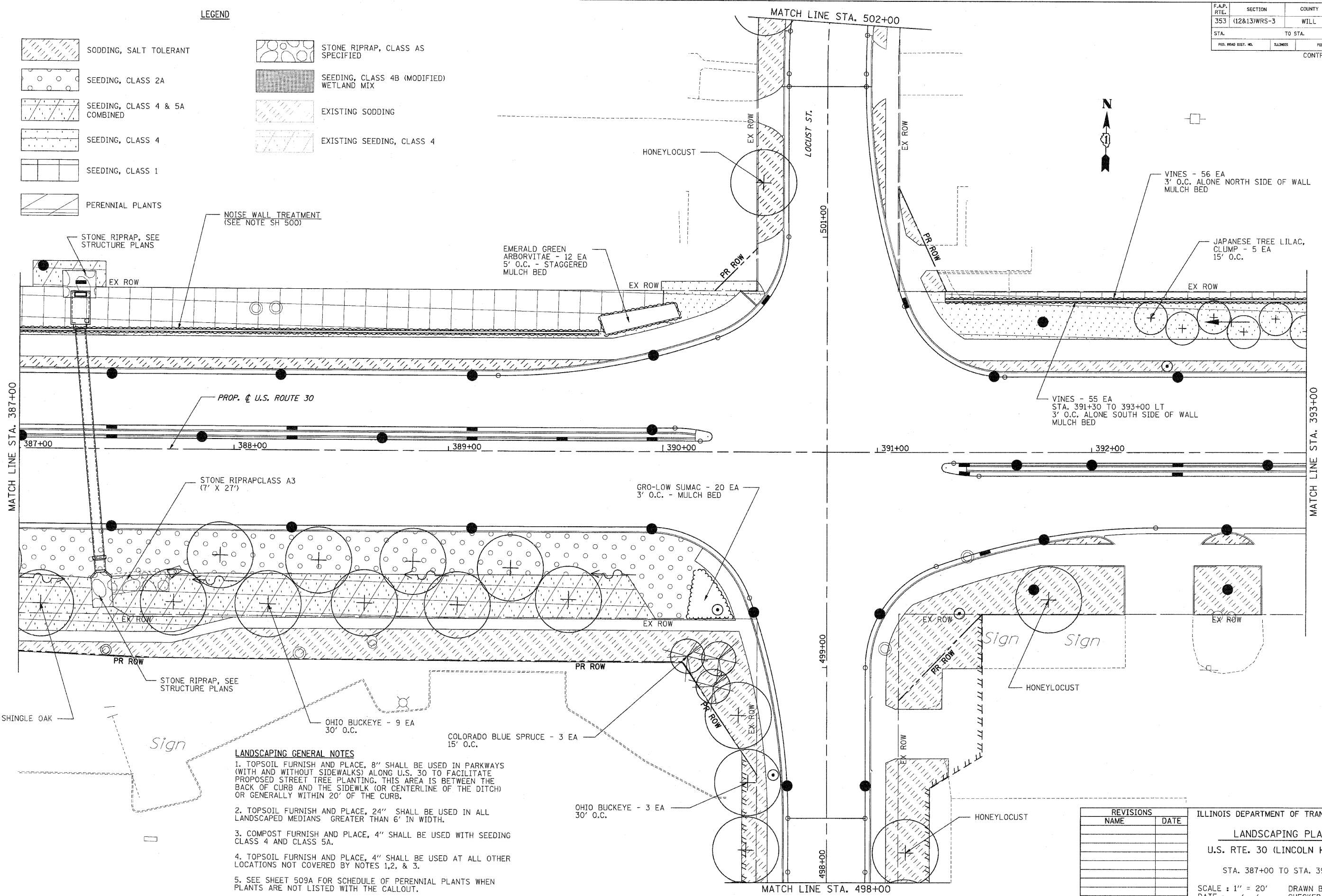
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LANDSCAPING PLANS**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 STA. 381+00 TO STA. 387+00  
 SCALE : 1" = 20'  
 DATE : / /  
 DRAWN BY : BAE  
 CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	502
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62479				

**LEGEND**

- |  |  |
|--|--|
|  SODDING, SALT TOLERANT         |  STONE RIPRAP, CLASS AS SPECIFIED         |
|  SEEDING, CLASS 2A              |  SEEDING, CLASS 4B (MODIFIED) WETLAND MIX |
|  SEEDING, CLASS 4 & 5A COMBINED |  EXISTING SODDING                         |
|  SEEDING, CLASS 4               |  EXISTING SEEDING, CLASS 4                |
|  SEEDING, CLASS 1               |  |
|  PERENNIAL PLANTS               |  |



- LANDSCAPING GENERAL NOTES**
1. TOPSOIL FURNISH AND PLACE, 8" SHALL BE USED IN PARKWAYS (WITH AND WITHOUT SIDEWALKS) ALONG U.S. 30 TO FACILITATE PROPOSED STREET TREE PLANTING. THIS AREA IS BETWEEN THE BACK OF CURB AND THE SIDEWALK (OR CENTERLINE OF THE DITCH) OR GENERALLY WITHIN 20' OF THE CURB.
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  5. SEE SHEET 509A FOR SCHEDULE OF PERENNIAL PLANTS WHEN PLANTS ARE NOT LISTED WITH THE CALLOUT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**LANDSCAPING PLANS**

U.S. RTE. 30 (LINCOLN HIGHWAY)

STA. 387+00 TO STA. 393+00

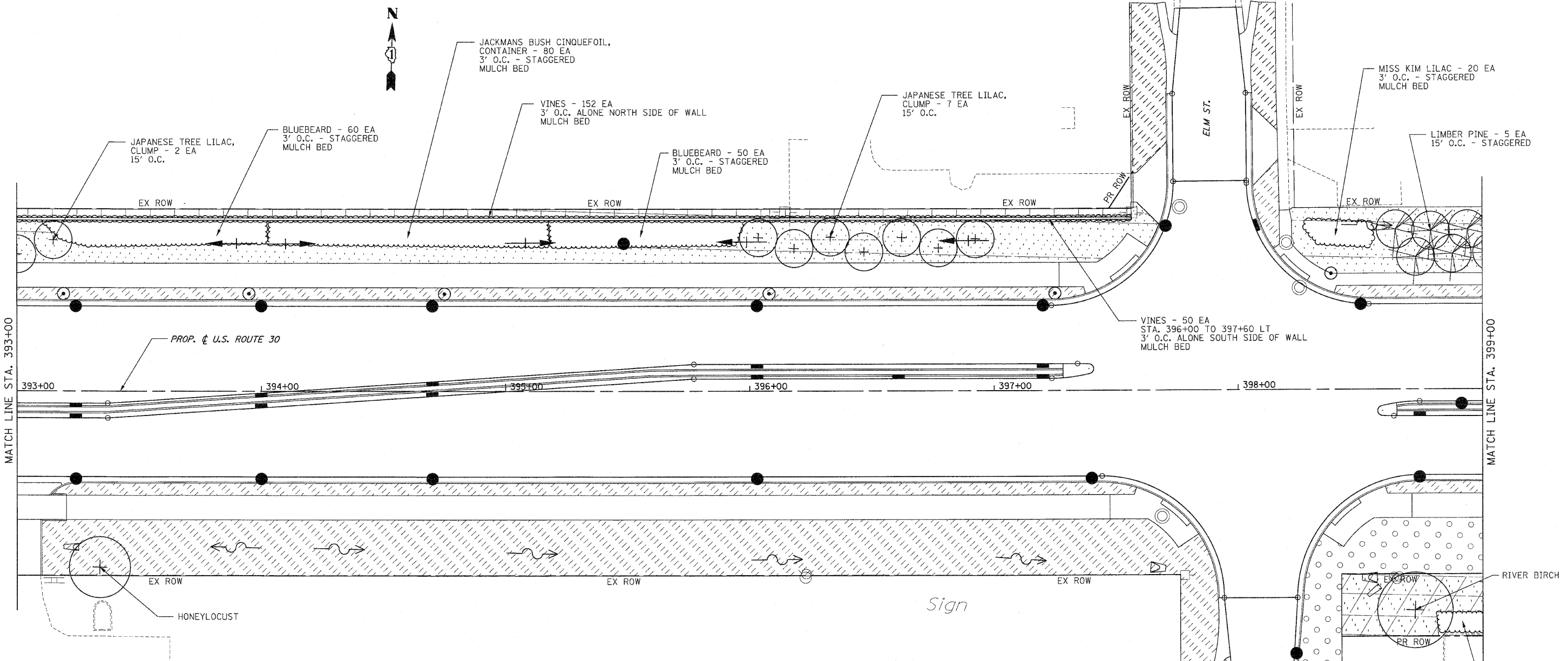
SCALE : 1" = 20'

DATE : / /

DRAWN BY : BAE

CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL.	1235	503
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62479				



**LEGEND**

	SODDING, SALT TOLERANT		STONE RIPRAP, CLASS AS SPECIFIED
	SEEDING, CLASS 2A		SEEDING, CLASS 4B (MODIFIED) WETLAND MIX
	SEEDING, CLASS 4 & 5A COMBINED		EXISTING SODDING
	SEEDING, CLASS 4		EXISTING SEEDING, CLASS 4
	SEEDING, CLASS 1		
	PERENNIAL PLANTS		

- LANDSCAPING GENERAL NOTES**
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  5. SEE SHEET 509A FOR SCHEDULE OF PERENNIAL PLANTS WHEN PLANTS ARE NOT LISTED WITH THE CALLOUT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**LANDSCAPING PLANS**

U.S. RTE. 30 (LINCOLN HIGHWAY)

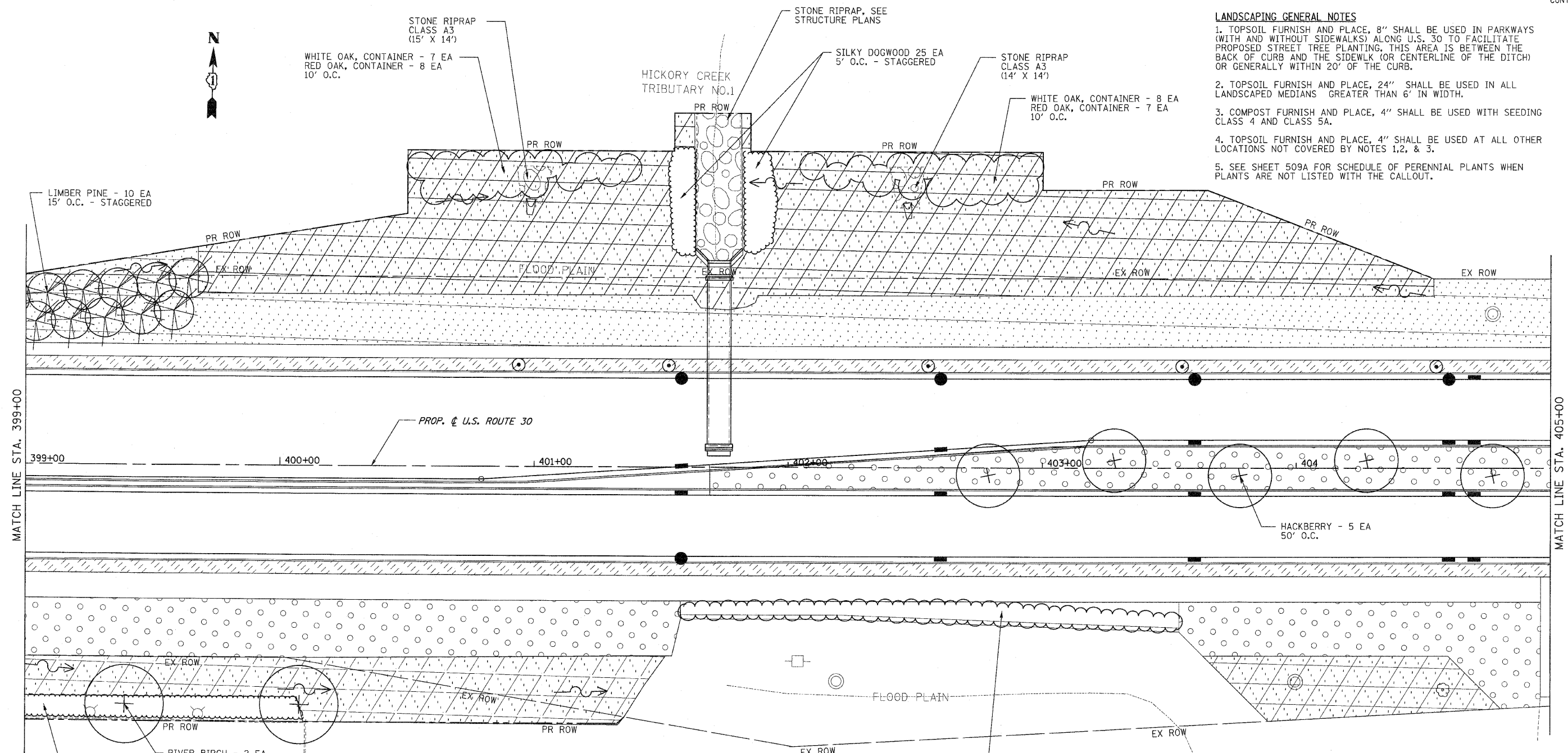
STA. 393+00 TO STA. 399+00

SCALE : 1" = 20'      DRAWN BY : BAE  
 DATE : 10/12/2010      CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	504
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62479				

**LANDSCAPING GENERAL NOTES**

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5. SEE SHEET 509A FOR SCHEDULE OF PERENNIAL PLANTS WHEN PLANTS ARE NOT LISTED WITH THE CALLOUT.



**LEGEND**

	SODDING, SALT TOLERANT		STONE RIPRAP, CLASS AS SPECIFIED
	SEEDING, CLASS 2A		SEEDING, CLASS 4B (MODIFIED) WETLAND MIX
	SEEDING, CLASS 4 & 5A COMBINED		EXISTING SODDING
	SEEDING, CLASS 4		EXISTING SEEDING, CLASS 4
	SEEDING, CLASS 1		
	PERENNIAL PLANTS		

REVISIONS	
NAME	DATE



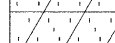
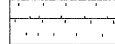
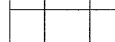
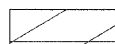



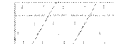
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LANDSCAPING PLANS**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 STA. 399+00 TO STA. 405+00  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB

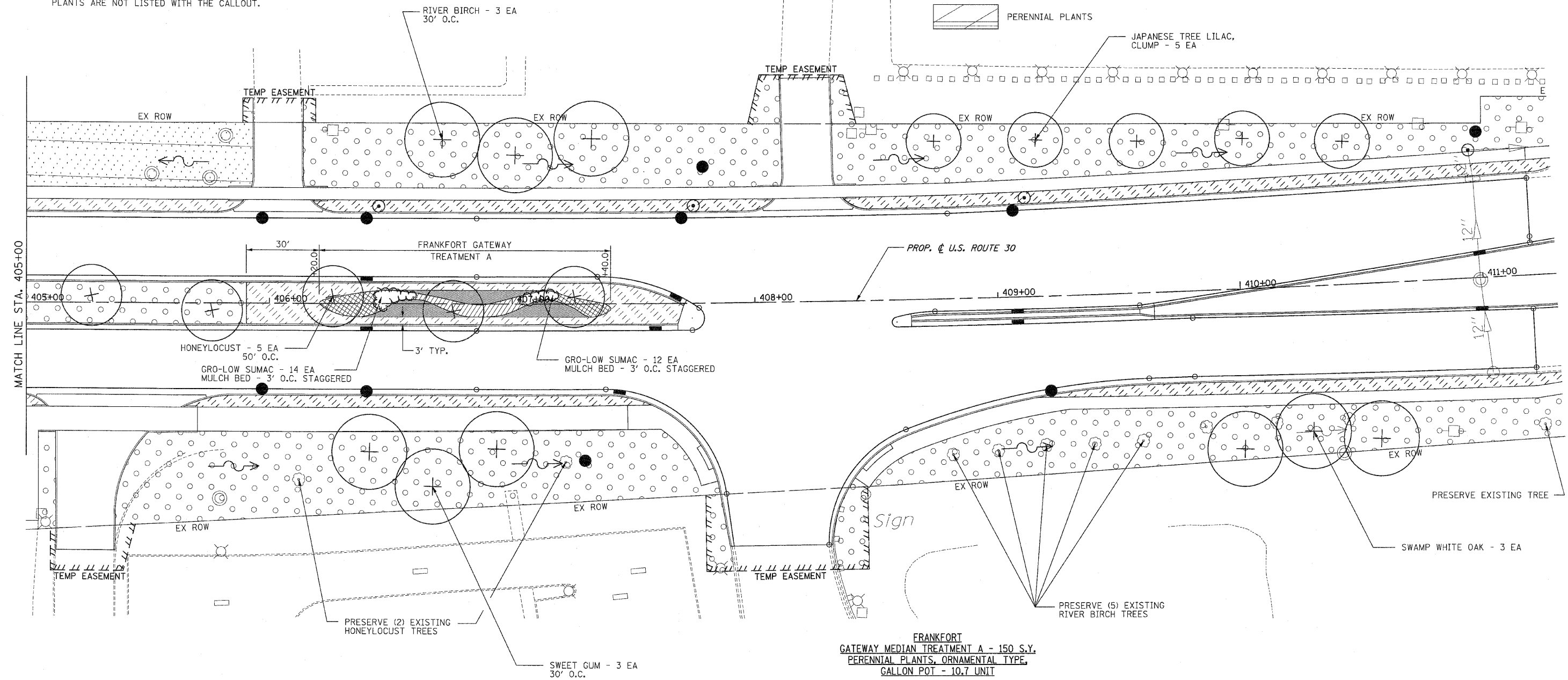
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL.	1235	505
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62479				





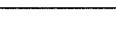
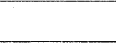
**LANDSCAPING GENERAL NOTES**

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5. SEE SHEET 509A FOR SCHEDULE OF PERENNIAL PLANTS WHEN PLANTS ARE NOT LISTED WITH THE CALLOUT.

**LEGEND**

-  SODDING, SALT TOLERANT
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4 & 5A COMBINED
-  SEEDING, CLASS 4
-  SEEDING, CLASS 1
-  PERENNIAL PLANTS
-  STONE RIPRAP, CLASS AS SPECIFIED
-  SEEDING, CLASS 4B (MODIFIED) WETLAND MIX
-  EXISTING SODDING
-  EXISTING SEEDING, CLASS 4

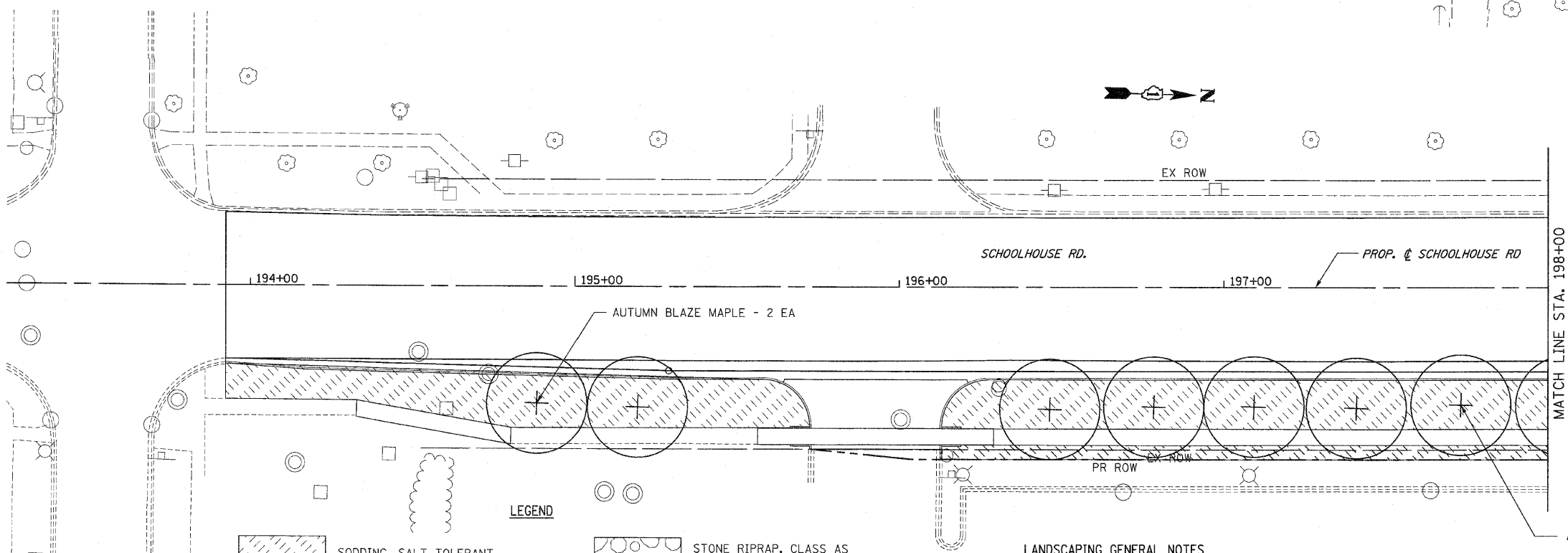
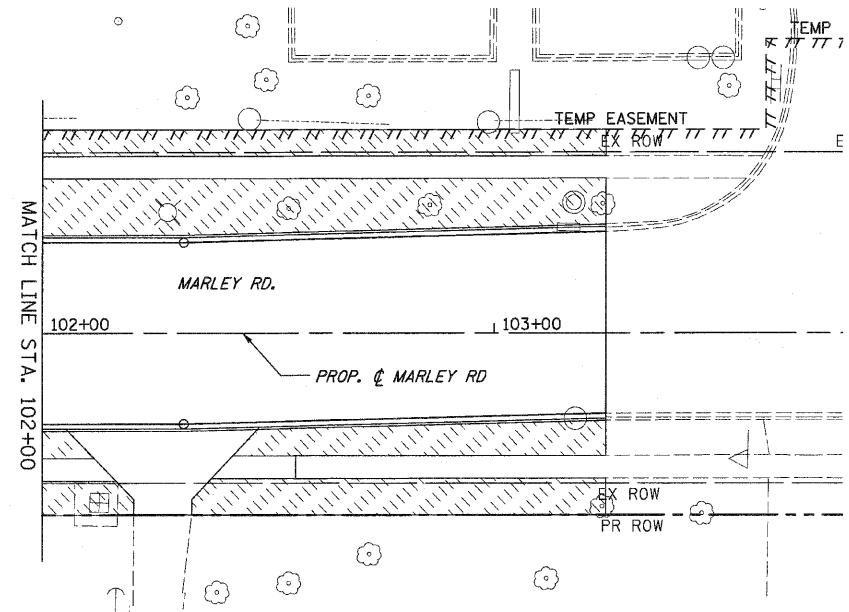
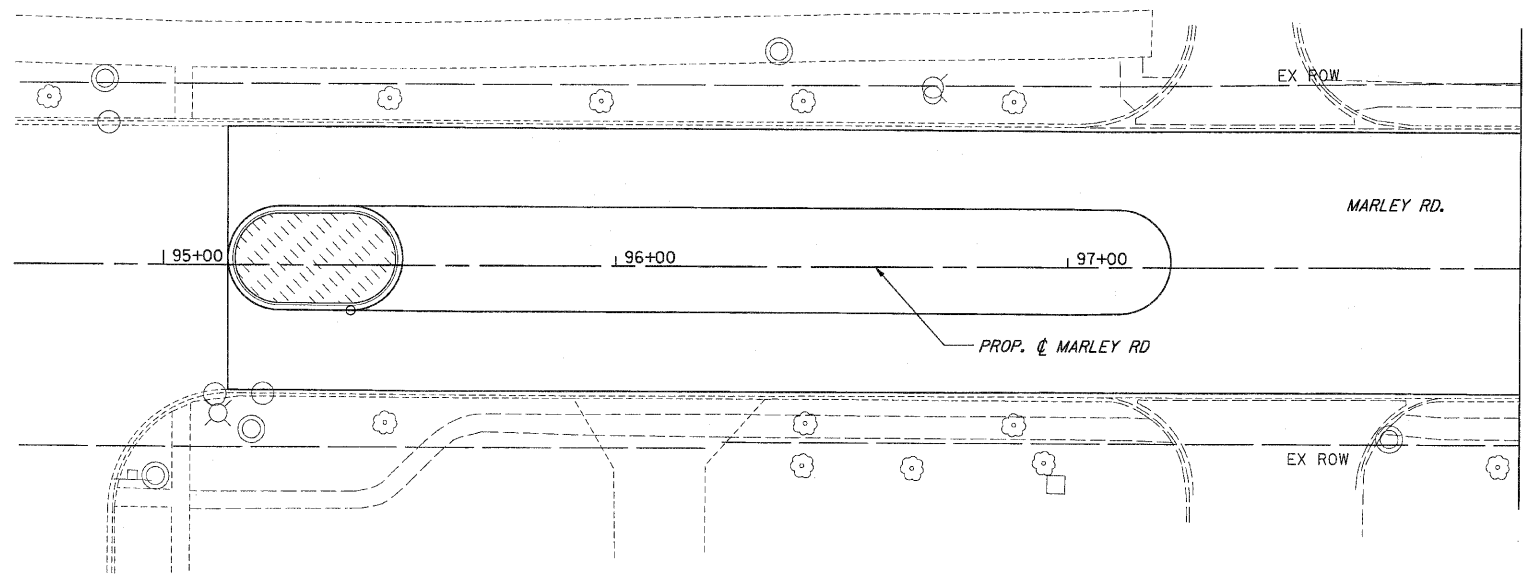


-  RUDBECKIA SPECIOSA 'VIETTE'S LITTLE SUZY' (DWARF BLACK-EYED SUSAN) - 12" O.C. - 348 EA
-  SPOROBOLUS HETEROLEPSIS (PRAIRIE DROPSEED) - 12" O.C. - 232 EA
-  BAPTISIA AUSTRALIS (BLUE FALSE INDIGO) - 18" O.C. - 35 EA
-  ANDROPOGON GERARDII (BIG BLUESTEM) - 18" O.C. - 20 EA
-  ECHINACEA PURPUREA 'MAGNUS' (PURPLE CONEFLOWER) - 12" O.C. - 260 EA
-  SCHIZACHYRIUM SCOPARIUM (LITTLE BLUESTEM) - 12" O.C. - 175 EA

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LANDSCAPING PLANS**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 STA. 405+00 TO STA. 411+20  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL.	1235	506
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62479				



**LEGEND**

	SODDING, SALT TOLERANT		STONE RIPRAP, CLASS AS SPECIFIED
	SEEDING, CLASS 2A		SEEDING, CLASS 4B (MODIFIED) WETLAND MIX
	SEEDING, CLASS 4 & 5A COMBINED		EXISTING SODDING
	SEEDING, CLASS 4		EXISTING SEEDING, CLASS 4
	SEEDING, CLASS 1		
	PERENNIAL PLANTS		

**LANDSCAPING GENERAL NOTES**

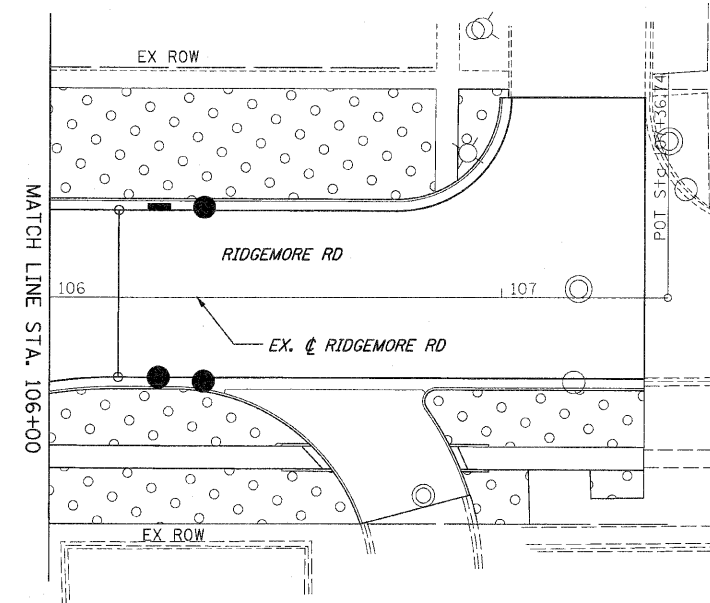
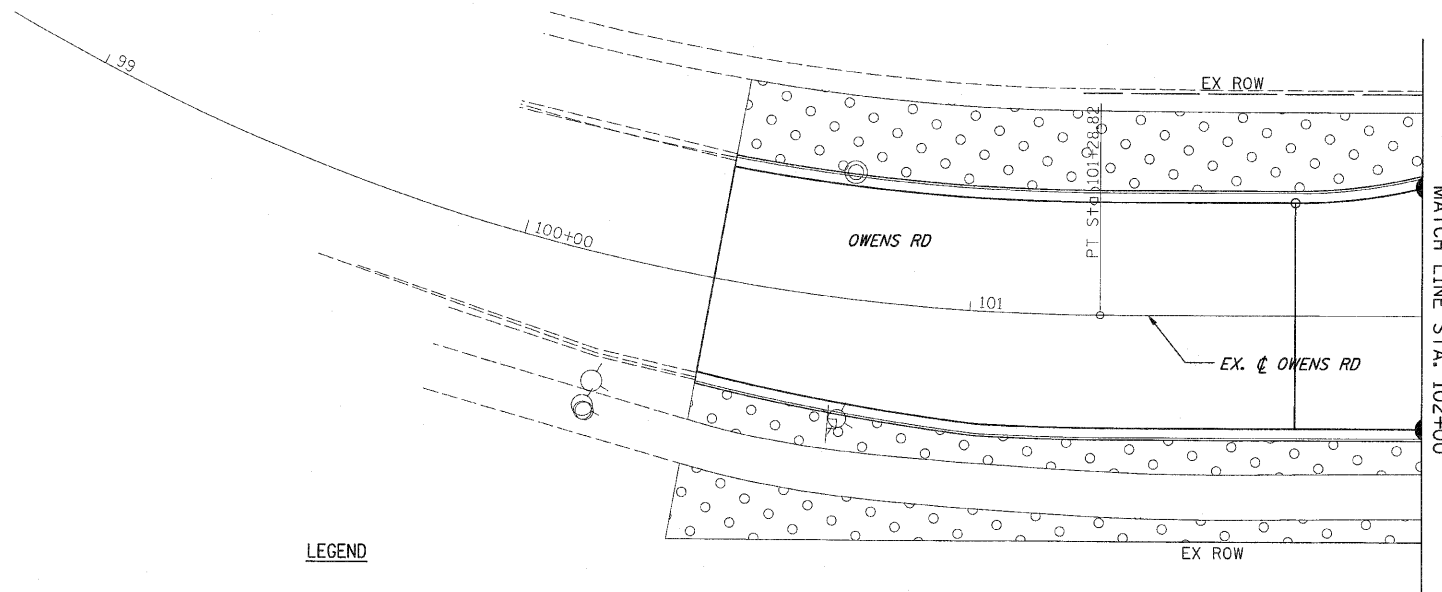
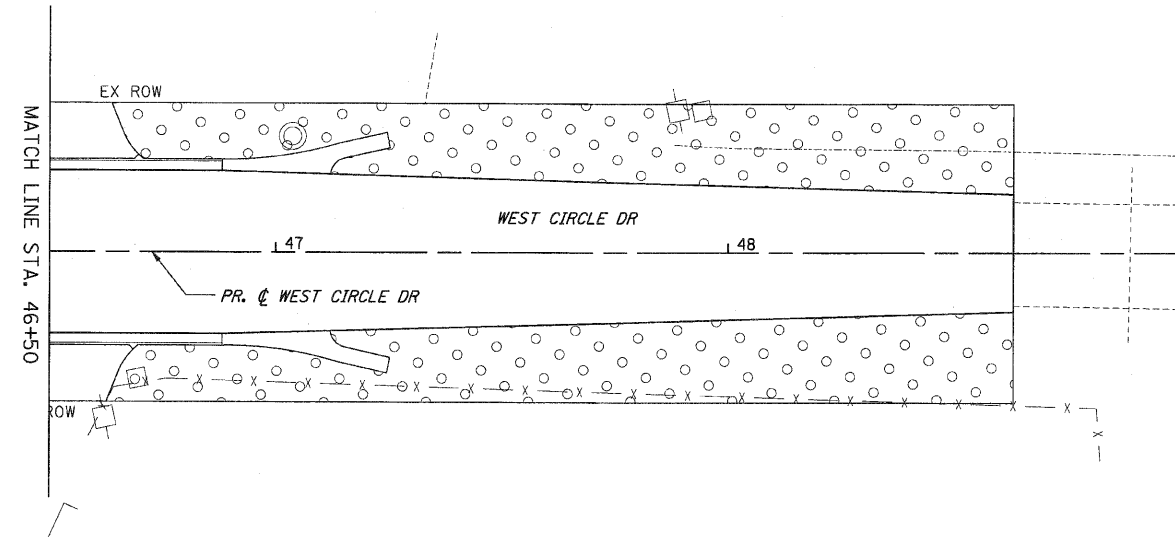
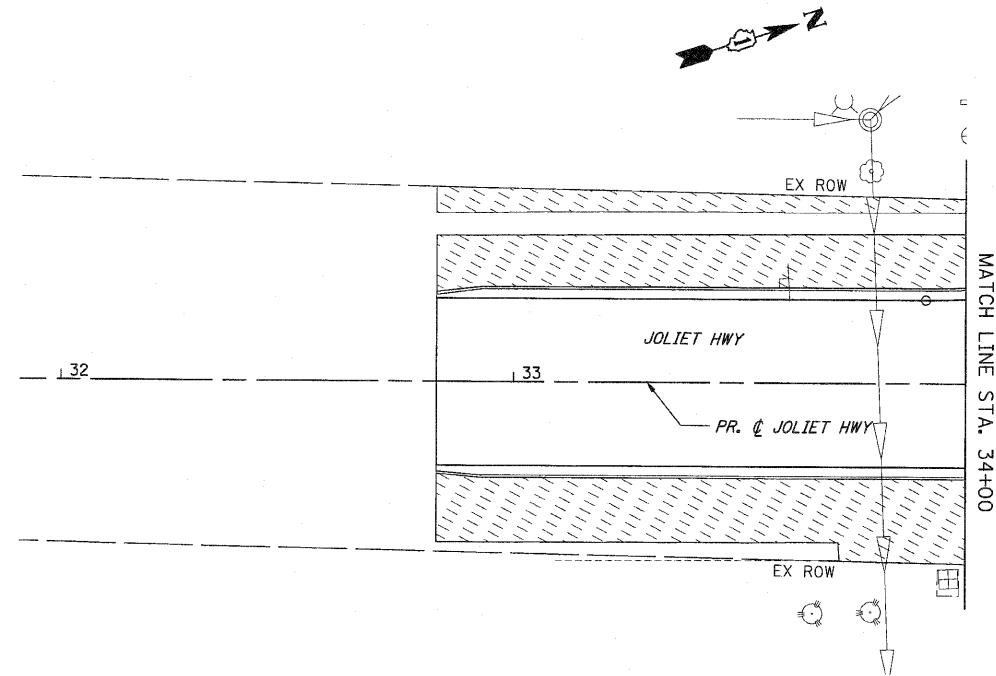
1. TOPSOIL FURNISH AND PLACE, 8" SHALL BE USED IN PARKWAYS (WITH AND WITHOUT SIDEWALKS) ALONG U.S. 30 TO FACILITATE PROPOSED STREET TREE PLANTING. THIS AREA IS BETWEEN THE BACK OF CURB AND THE SIDEWALK (OR CENTERLINE OF THE DITCH) OR GENERALLY WITHIN 20' OF THE CURB.
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5. SEE SHEET 509A FOR SCHEDULE OF PERENNIAL PLANTS WHEN PLANTS ARE NOT LISTED WITH THE CALLOUT.

REVISIONS	
NAME	DATE



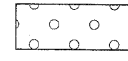

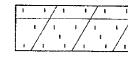

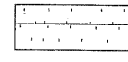

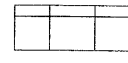
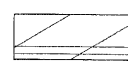
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LANDSCAPING PLANS**  
**MARLEY/SCHOOLHOUSE**

SCALE : 1" = 20'  
DATE : 10/12/2010  
DRAWN BY : BAE  
CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	507
STA.		TO STA.		
FED. ROAD DIST. NO.	BLDG. NO.	FED. AID PROJECT		CONTRACT NO. 62479



**LEGEND**

- |  |  |
|--|--|
|  SODDING, SALT TOLERANT         |  STONE RIPRAP, CLASS AS SPECIFIED         |
|  SEEDING, CLASS 2A              |  SEEDING, CLASS 4B (MODIFIED) WETLAND MIX |
|  SEEDING, CLASS 4 & 5A COMBINED |  EXISTING SODDING                         |
|  SEEDING, CLASS 4               |  EXISTING SEEDING, CLASS 4                |
|  SEEDING, CLASS 1               |  |
|  PERENNIAL PLANTS               |  |

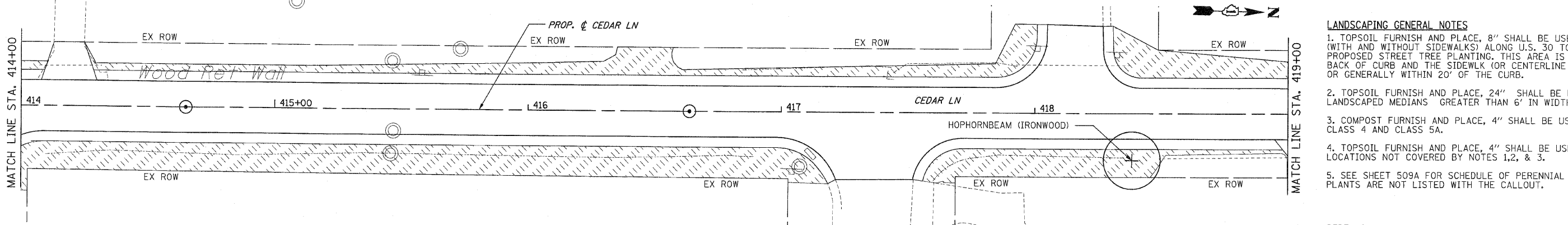
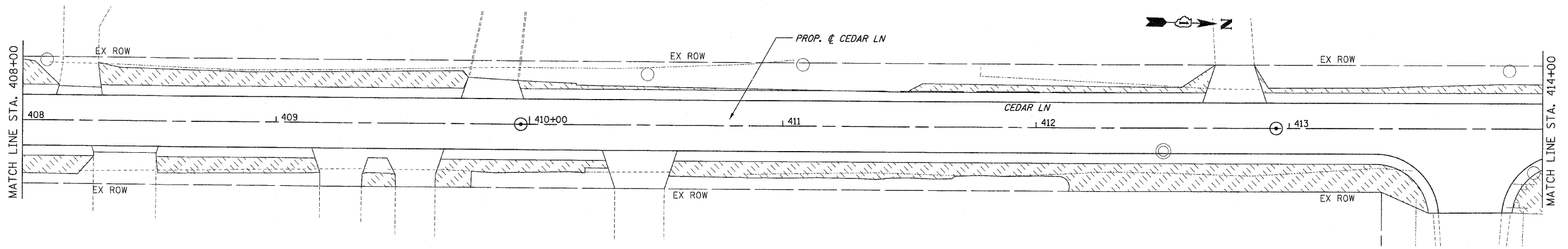
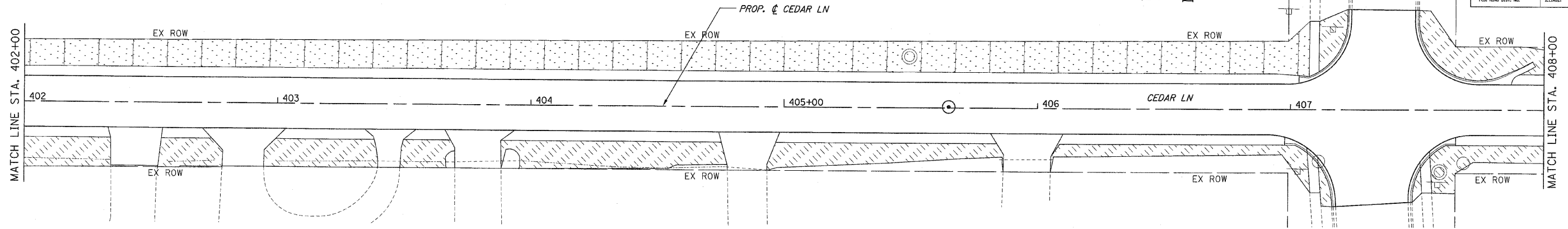
**LANDSCAPING GENERAL NOTES**

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LANDSCAPING PLANS**  
 W CIRCLE DR/JOLIET HWY &  
 OWENS/RIDGEMORE  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB

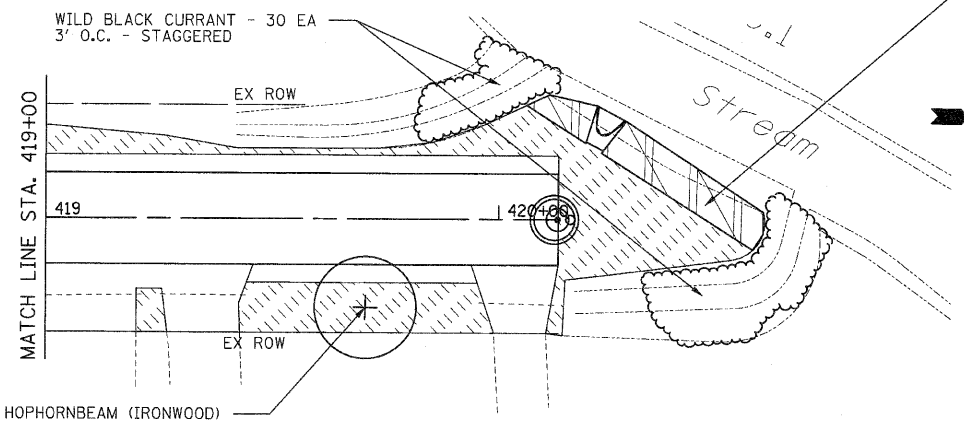
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET #
353	(12&13)WRS-3	WILL	1235	508
STA.	TO STA.		FED. AID PROJECT	
			CONTRACT NO. 62479	



- LANDSCAPING GENERAL NOTES**
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**LEGEND**

- |  |                                |  |  |
|--|--------------------------------|--|--|
|  | SODDING, SALT TOLERANT         |  | STONE RIPRAP, CLASS AS SPECIFIED         |
|  | SEEDING, CLASS 2A              |  | SEEDING, CLASS 4B (MODIFIED) WETLAND MIX |
|  | SEEDING, CLASS 4 & 5A COMBINED |  | EXISTING SODDING                         |
|  | SEEDING, CLASS 4               |  | EXISTING SEEDING, CLASS 4                |
|  | SEEDING, CLASS 1               |  |  |
|  | PERENNIAL PLANTS               |  |  |



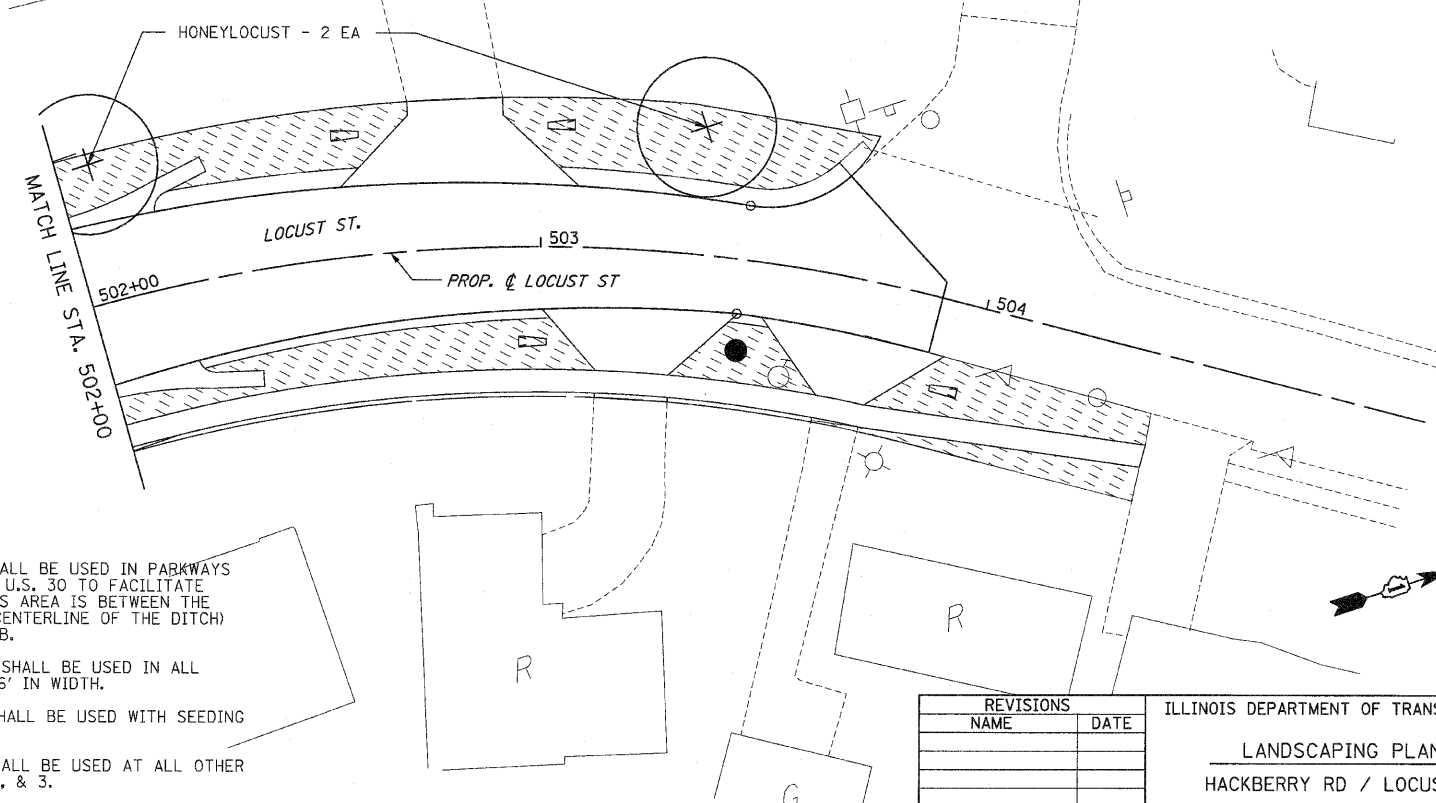
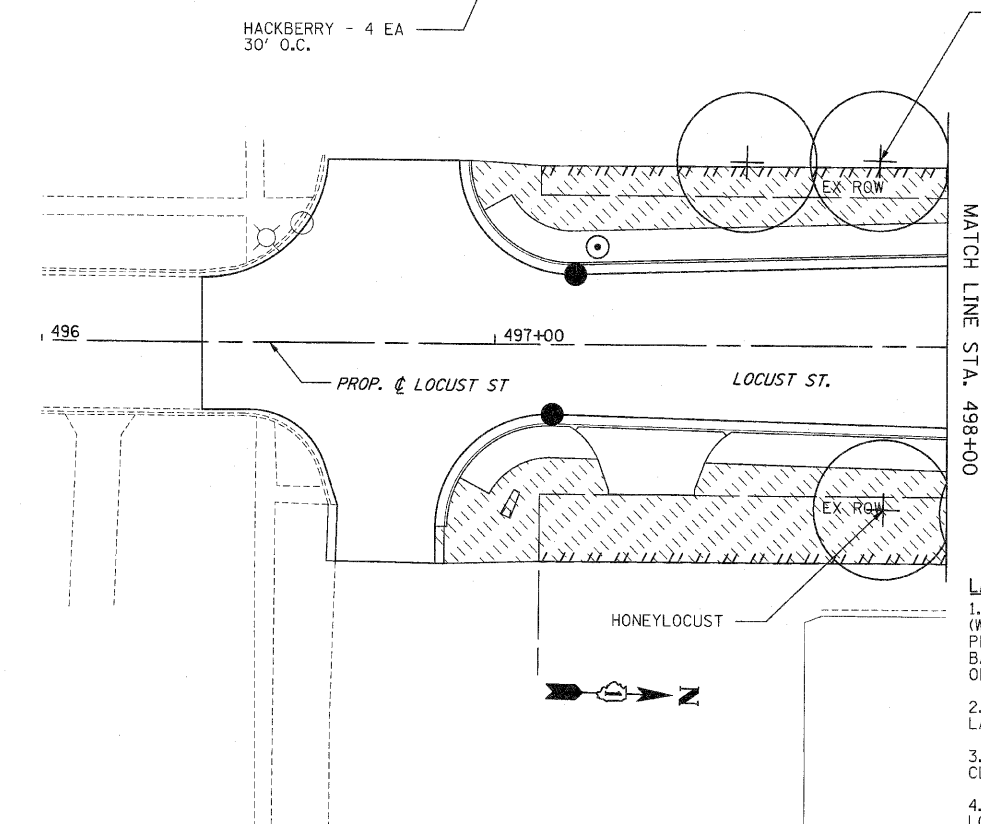
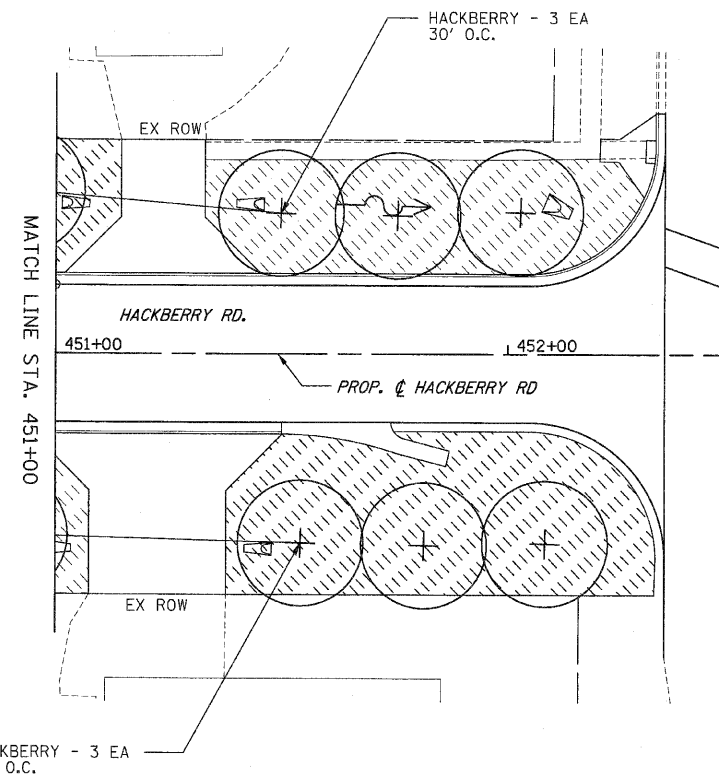
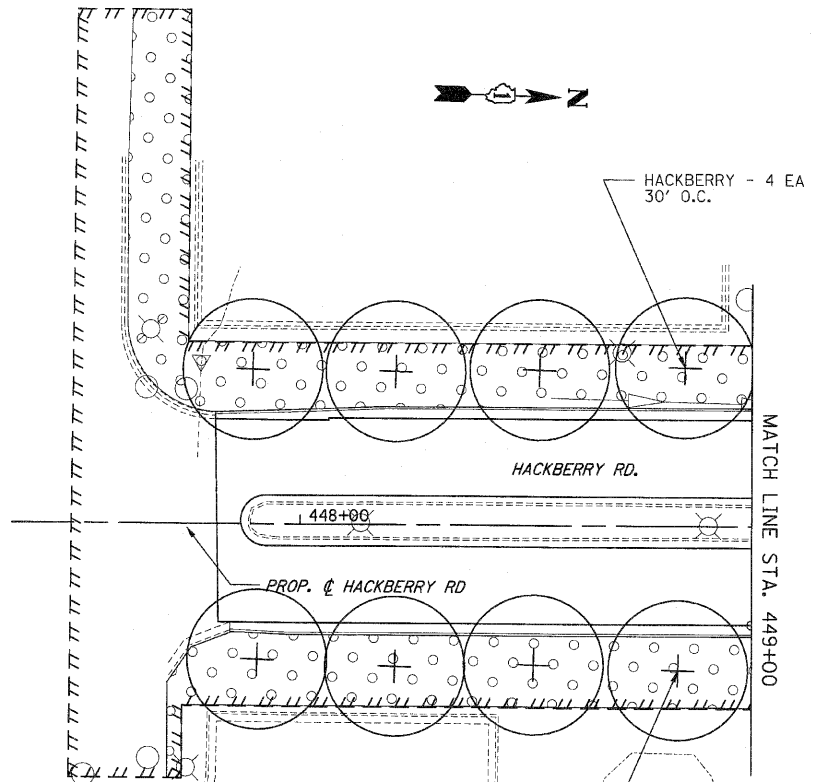
PERENNIAL PLANTS, WOODLAND TYPE, QUART POT - 1.60 UNIT  
 -CALTHA PALUSTRIS (MARSH MARIGOLD) - 160 EA  
 PERENNIAL PLANT, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG (BUFFER TO HICKORY CREEK TRIBUTARY #1 AT TERMINUS OF CEDAR LANE)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LANDSCAPING PLANS**  
 CEDAR LN  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	509
STA.		TO STA.		
FED. ROAD DIST. NO.	ELIGIBLE	FED. AID PROJECT		
CONTRACT NO. 62479				



**LEGEND**

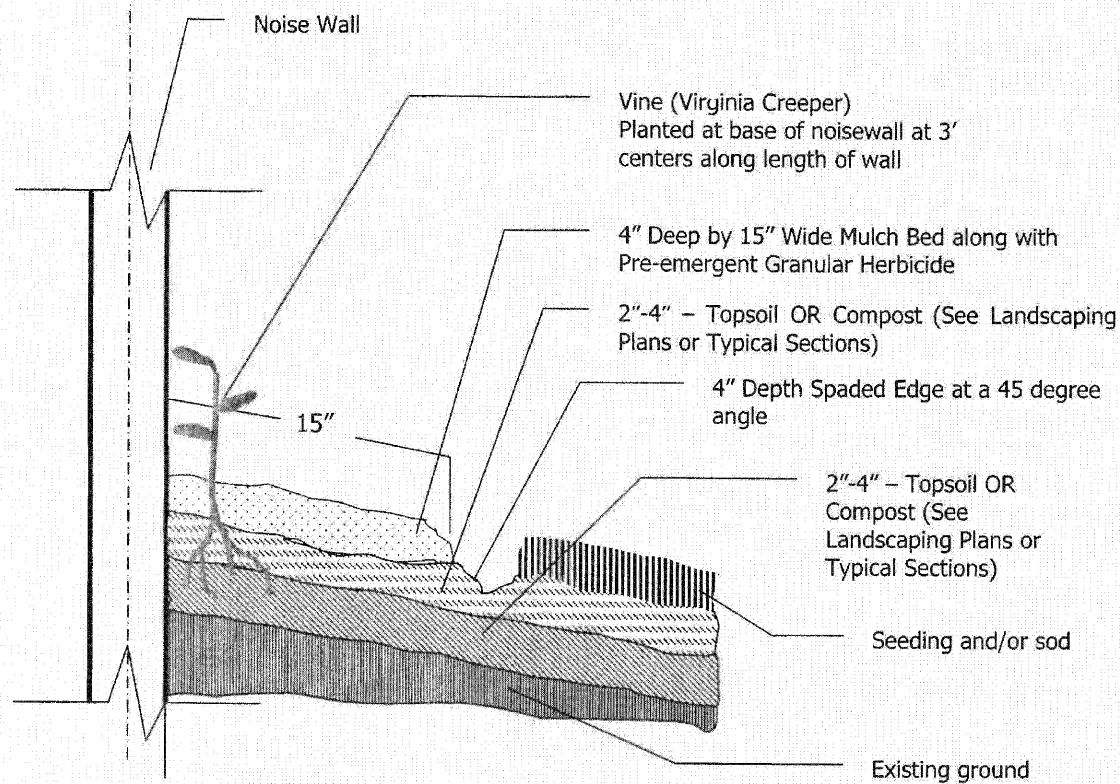
	SODDING, SALT TOLERANT		STONE RIPRAP, CLASS AS SPECIFIED
	SEEDING, CLASS 2A		SEEDING, CLASS 4B (MODIFIED) WETLAND MIX
	SEEDING, CLASS 4 & 5A COMBINED		EXISTING SODDING
	SEEDING, CLASS 4		EXISTING SEEDING, CLASS 4
	SEEDING, CLASS 1		
	PERENNIAL PLANTS		

- LANDSCAPING GENERAL NOTES**
1. TOPSOIL FURNISH AND PLACE, 8" SHALL BE USED IN PARKWAYS (WITH AND WITHOUT SIDEWALKS) ALONG U.S. 30 TO FACILITATE PROPOSED STREET TREE PLANTING. THIS AREA IS BETWEEN THE BACK OF CURB AND THE SIDEWALK (OR CENTERLINE OF THE DITCH) OR GENERALLY WITHIN 20' OF THE CURB.
  2. TOPSOIL FURNISH AND PLACE, 24" SHALL BE USED IN ALL LANDSCAPED MEDIANS GREATER THAN 6' IN WIDTH.
  3. COMPOST FURNISH AND PLACE, 4" SHALL BE USED WITH SEEDING CLASS 4 AND CLASS 5A.
  4. TOPSOIL FURNISH AND PLACE, 4" SHALL BE USED AT ALL OTHER LOCATIONS NOT COVERED BY NOTES 1, 2, & 3.
  5. SEE SHEET 509A FOR SCHEDULE OF PERENNIAL PLANTS WHEN PLANTS ARE NOT LISTED WITH THE CALLOUT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LANDSCAPING PLANS**  
 HACKBERRY RD / LOCUST ST

SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB



### VINE PLANTING DETAIL

#### NOTES:

- See Landscape Plans for specific locations of vines.
- Compost/Topsoil shall be thoroughly rototilled into exist ground to a depth of 6" prior to planting.
- Mulch bed shall be placed over rototilled compost/topsoil as shown in vine planting detail and according to IDOT Standard Specification 253.11 except that no weed barrier fabric is required. Cost of mulch cover is included with payment for "Vine-Parthenocissus quinquefolia (Virginia Creeper), 1-Gallon Pot"
- Pre-emergent Granular Herbicide shall be placed in mulched beds according to the Special Provision.

### ORNAMENTAL PERENNIAL PLANT CARE SCHEDULE

Activity	Time
Plant Perennials as per Plan	May 1 - June 15 August 15 - September 15
Mulch Perennial Beds	24 Hours After Planting
Install Selective Mow Stakes as per Plan or Direction of RE	Prior to Period of Establishment Inspection
Perennial Plant Period of Establishment - Water Once Every 7 Days for 4 Weeks	Within 30 Days After Planting
Replace Dead Plants	After Period of Establishment Inspection
Perennial Plant Care (First Cycle)	30 Days After Period of Establishment Inspection
Perennial Plant Care (Second Cycle)	60 Days After Period of Establishment Inspection
Perennial Plant Care (Third Cycle)	90 Days After Period of Establishment Inspection
Supplemental Watering	Use After Period of Est. Insp. As Directed by Resident Engineer

### SCHEDULE OF PERENNIAL PLANTS, WETLAND TYPE

#### WETLAND TYPE, 2" DIAMETER X 4" DEEP PLUG-34.08 UNITS TOTAL

##### WETLAND #1 (WET MEADOW)-1.92 UNIT (2 LOCATIONS)

CALAMOGROSTIS CANADENSIS	BLUE JOINT GRASS	96 EACH
CAREX STRICTA	TUSSOCK SEDGE	96 EACH

##### WETLAND #2 (WET MEADOW)-3.04 UNIT

ASCLEPIAS INCARNATA	SWAMP MILKWEED	112 EACH
EUPATORIUM RUGOSUM	WHITE SNAKEROOT	96 EACH
PHLOX DIVARICATA	WILD BLUE PHLOX	96 EACH

##### WETLAND #4 EASTBOUND (FLOODPLAIN FOREST)-12.16 UNIT

ASTER PUNICEUS	SWAMP ASTER	152 EACH
IRIS VIRGINICA VAR.SHREVEI	BLUE FLAG IRIS	152 EACH
LYCOPUS AMERICANUS	WATER HOREHOUND	152 EACH
PHLOX DIVARICATA	WILD BLUE PHLOX	456 EACH
RUDBECKIA LACINIATA	WILD GOLDEN GLOW	152 EACH
SOLIDAGO PATULA	SWAMP GOLDENROD	152 EACH

##### WETLAND #4 WESTBOUND (FLOODPLAIN FOREST)-12.16 UNIT

ASTER PUNICEUS	SWAMP ASTER	152 EACH
IRIS VIRGINICA VAR.SHREVEI	BLUE FLAG IRIS	152 EACH
LYCOPUS AMERICANUS	WATER HOREHOUND	152 EACH
PHLOX DIVARICATA	WILD BLUE PHLOX	456 EACH
RUDBECKIA LACINIATA	WILD GOLDEN GLOW	152 EACH
SOLIDAGO PATULA	SWAMP GOLDENROD	152 EACH

##### BUFFER TO HICKORY CREEK TRIBUTARY #1 AT TERMINUS OF CEDAR LANE-4.80 UNIT

ELYMUS VIRGINIANA	VIRGINIA WILD RYE	96 EACH
IRIS VIRGINICA VAR.SHREVEI	BLUE FLAG IRIS	96 EACH
LYCOPUS AMERICANUS	WATER HOREHOUND	96 EACH
POLYGONUM VIRGINIANUM	WOODLAND KNOTWEED	96 EACH
SOLIDAGO PATULA	SWAMP GOLDENROD	96 EACH

#### WOODLAND TYPE, QUART POT-1.60 UNITS

##### BUFFER TO HICKORY CREEK TRIBUTARY #1 AT TERMINUS OF CEDAR LANE

CALTHA PALUSTRIS	MARSH MARIGOLD	160 EACH
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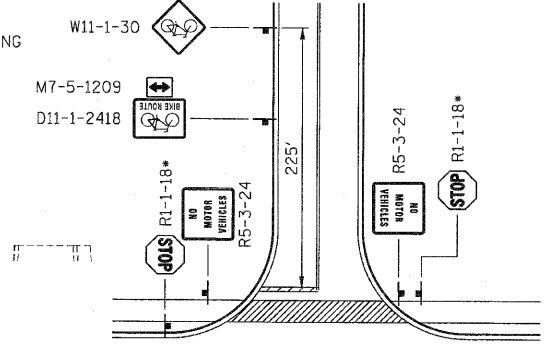
NOTE: ALL WETLAND PLANTS SHALL BE SPACED 12" APART AND STAGGERED UNLESS OTHERWISE NOTED.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION LANDSCAPING PLANS DETAILS
NAME	DATE	

SCALE : 1" = 20'  
DATE : 10/12/2010  
DRAWN BY : BAE  
CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	510
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62479				

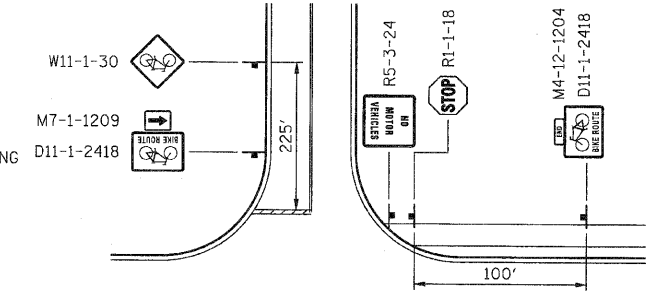
THIS DETAIL APPLIES AT THE FOLLOWING INTERSECTIONS WITH US ROUTE 30:  
 MARLEY RD.  
 SPENCER RD.  
 ANDERSON RD.  
 ENTERANCE @ STA. 185+48.66  
 VANCINA LN.  
 GARFIELD AVE.  
 WEST CIRCLE DR.  
 ARROWHEAD DR.  
 EAST CIRCLE DR.  
 PRESTANCIA DR.  
 TALL GRASS DR.  
 RIDGEMORE RD.  
 ENTRANCE @ STA. 318+71.44  
 BUTTERNUT TRAIL  
 HACKBERRY RD.  
 ELM ST. (SOUTH)



TYPICAL SIGNS FOR BICYCLE PATHS AT INTERSECTION

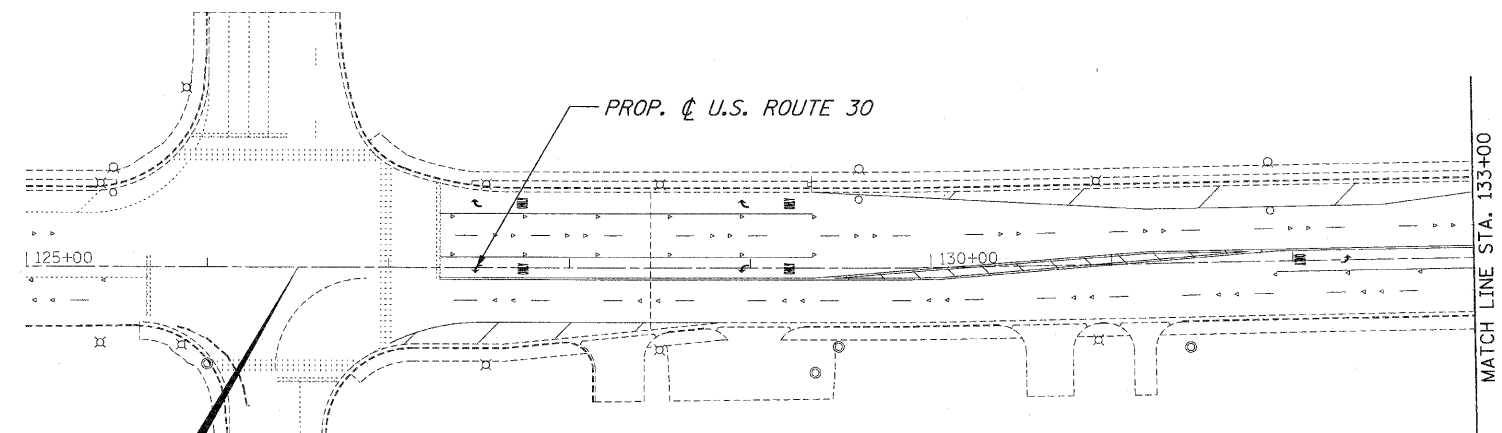
• THIS SIGN SHALL NOT BE PLACED AT SIGNALIZED INTERSECTIONS.

THIS DETAIL APPLIES AT THE FOLLOWING INTERSECTIONS WITH US ROUTE 30:  
 WALONA AVE.  
 ELM ST. (NORTH)  
 COMMERCIAL DRIVE @ 408+00 RT.

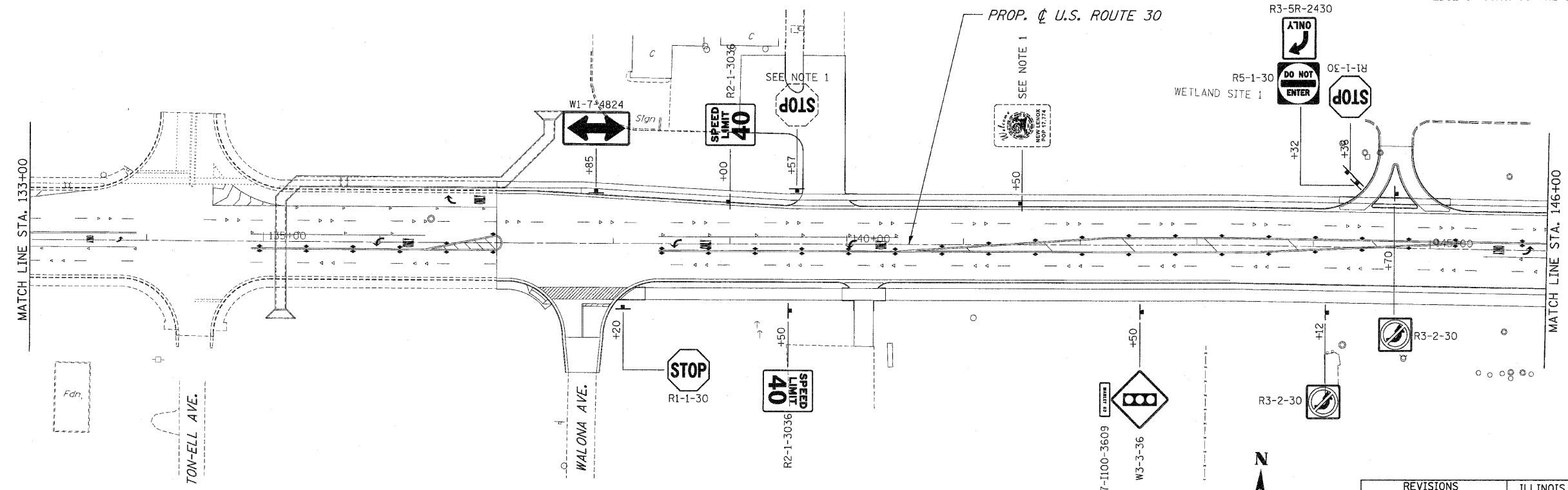


TYPICAL SIGNS FOR BEGINNING AND END OF BICYCLE PATHS

**PROJECT BEGINS  
STA. 126 + 50.17**



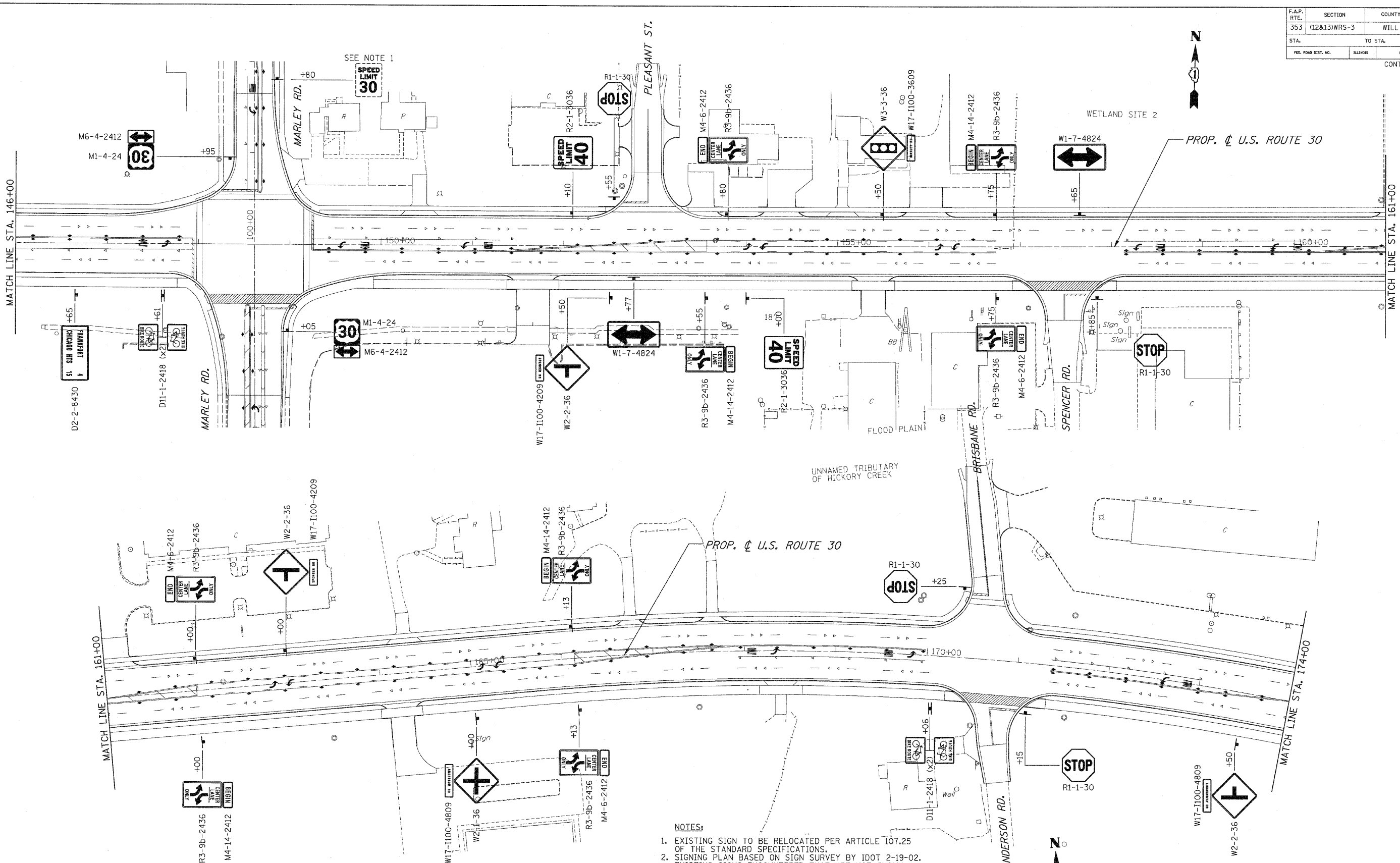
- NOTES:
- EXISTING SIGN TO BE RELOCATED PER ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
  - SIGNING PLAN BASED ON SIGN SURVEY BY IDOT 2-19-02. EXISTING SIGNS ENCOUNTERED THAT ARE NOT SHOWN IN THE PLAN SHALL BE RELOCATED PER ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS OR REMOVED AS DIRECTED BY THE ENGINEER.
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  - SIGNS SHALL BE MOUNTED ACCORDING TO HIGHWAY STANDARD 720006. SIGNS ADJACENT TO THE BIKE PATH SHALL MAINTAIN A MINIMUM 3 FOOT CLEARANCE FROM THE EDGE OF PATH TO THE EDGE OF SIGN.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SIGNING PLANS U.S. RTE. 30 (LINCOLN HIGHWAY) STA. 118+00 TO STA. 146+00 SCALE : 1" = 50' DATE : 10/12/2010

DRAWN BY : BAE  
CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	511
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62479				

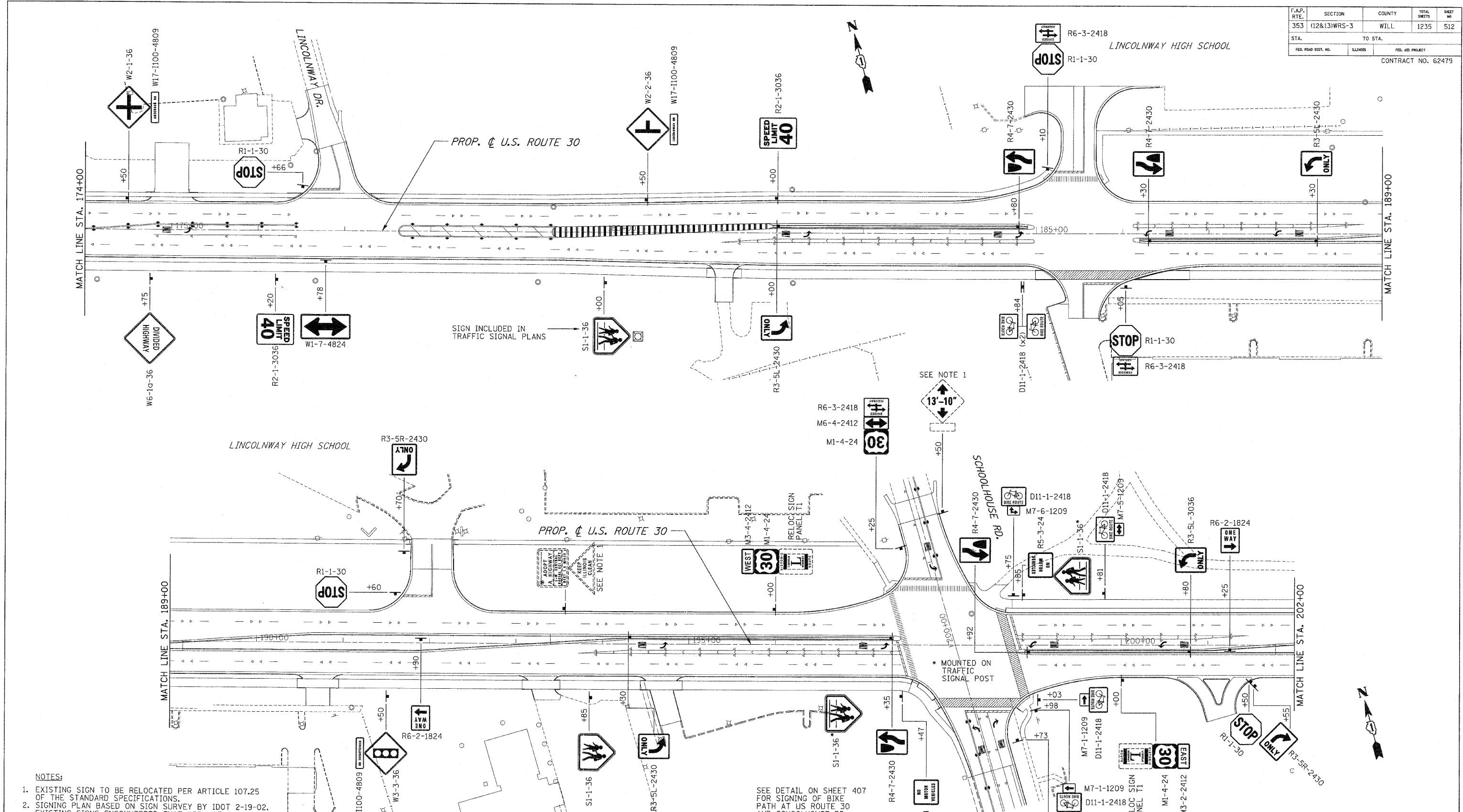


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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SIGNING PLANS**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 STA. 146+00 TO STA. 174+00  
 SCALE : 1" = 50'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	512
STA.	TO STA.			
FED. ROAD DIST. NO.	SHEETS	FED. AID PROJECT		
			CONTRACT NO. 62479	



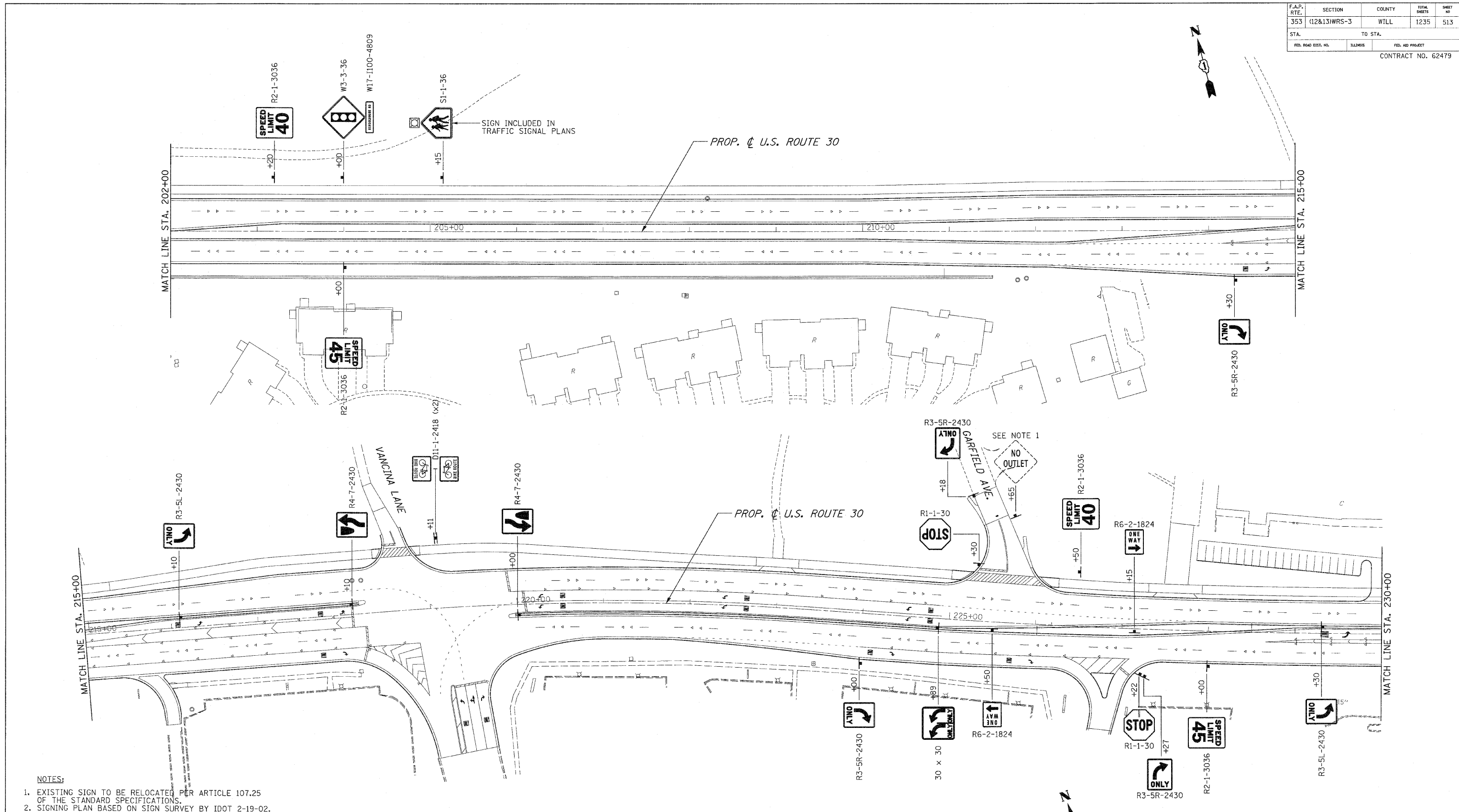
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SEE DETAIL ON SHEET 407 FOR SIGNING OF BIKE PATH AT US ROUTE 30 AND SCHOOLHOUSE RD.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SIGNING PLANS**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 STA. 174+00 TO STA. 202+00  
 SCALE : 1" = 50'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	513
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62479				



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

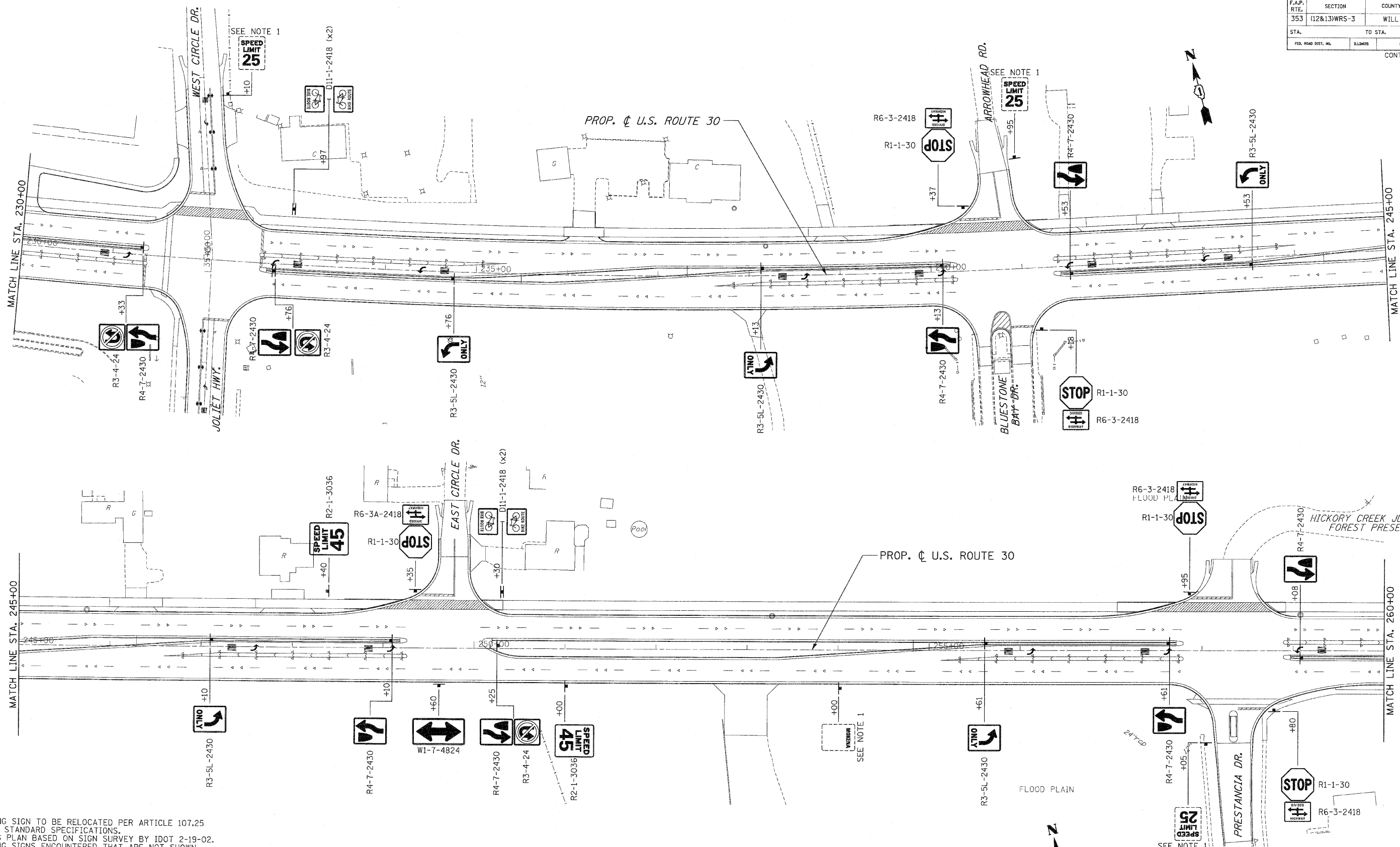
**SIGNING PLANS**

U.S. RTE. 30 (LINCOLN HIGHWAY)

STA. 202+00 TO STA. 230+00

SCALE : 1" = 50'      DRAWN BY : BAE  
DATE : 10/12/2010      CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	514
STA.		TO STA.		
FED. ROAD DIST. NO.		MILEMIS.		FED. AID PROJECT
CONTRACT NO. 62479				



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

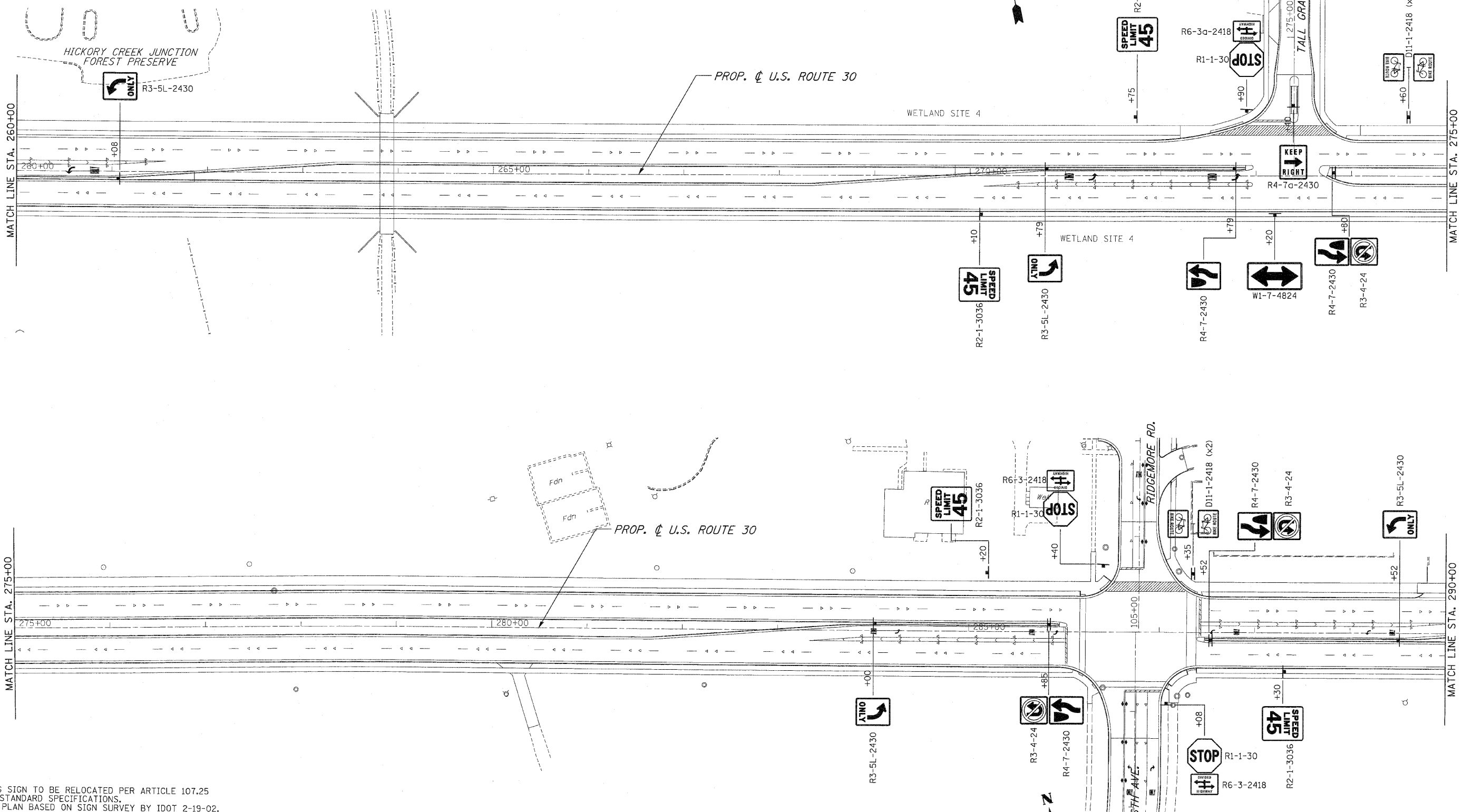
**SIGNING PLANS**

U.S. RTE. 30 (LINCOLN HIGHWAY)

STA. 230+00 TO STA. 260+00

SCALE : 1" = 50'      DRAWN BY : BAE  
 DATE : 10/12/2010      CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	515
STA.	TO STA.		FED. AID PROJECT	
			CONTRACT NO. 62479	



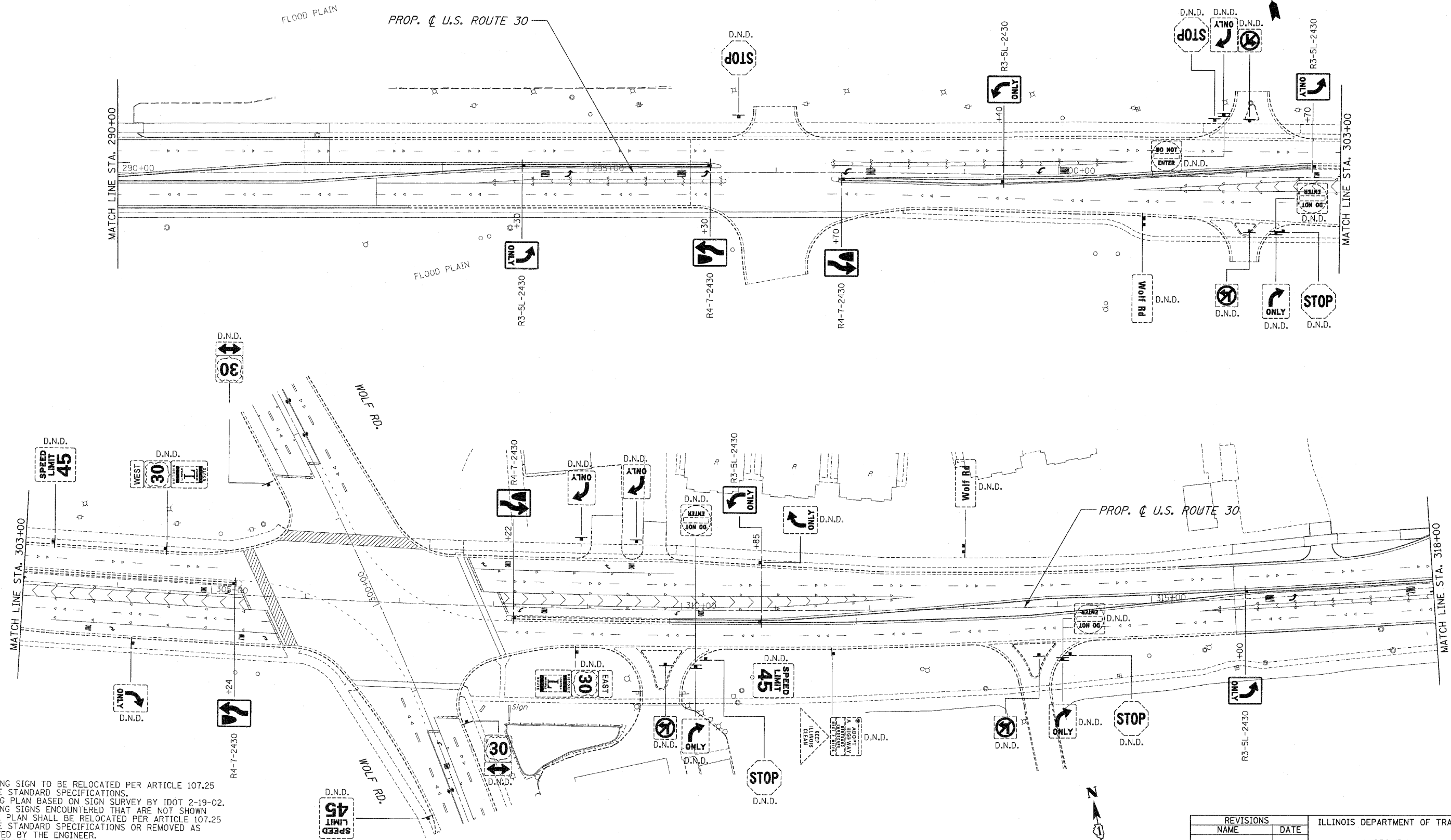
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SIGNING PLANS**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 STA. 260+00 TO STA. 290+00  
 SCALE : 1" = 50'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB



F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	516
STA.		TO STA.		
FED. ROAD DIST. NO.	SLIPNOES	FED. AID PROJECT		
CONTRACT NO. 62479				

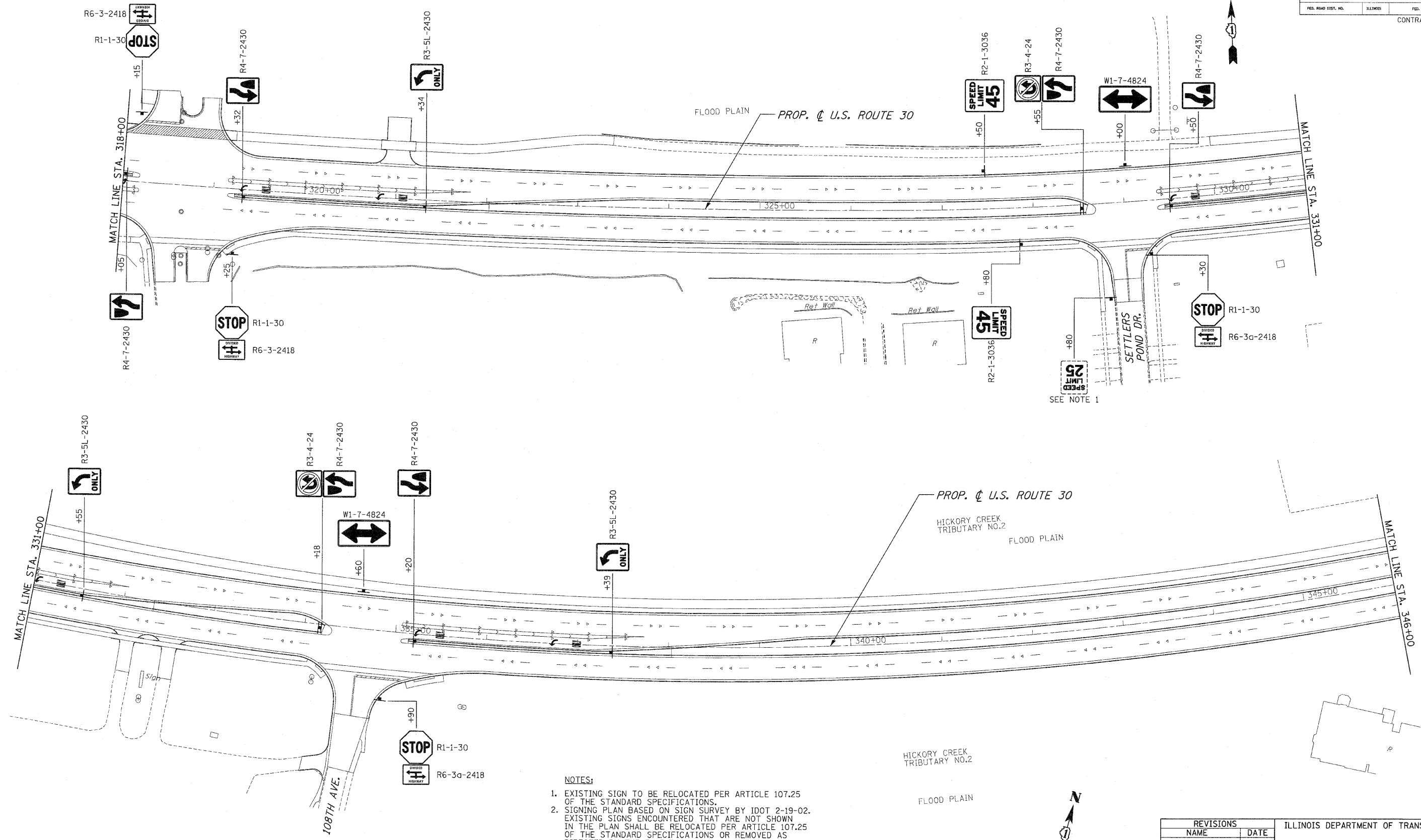


- NOTES:
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  - D.N.D. = DO NOT DISTURB (EXISTING SIGN).

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SIGNING PLANS**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 STA. 290+00 TO STA. 318+00  
 SCALE : 1" = 50'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	517
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62479				



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SIGNING PLANS**

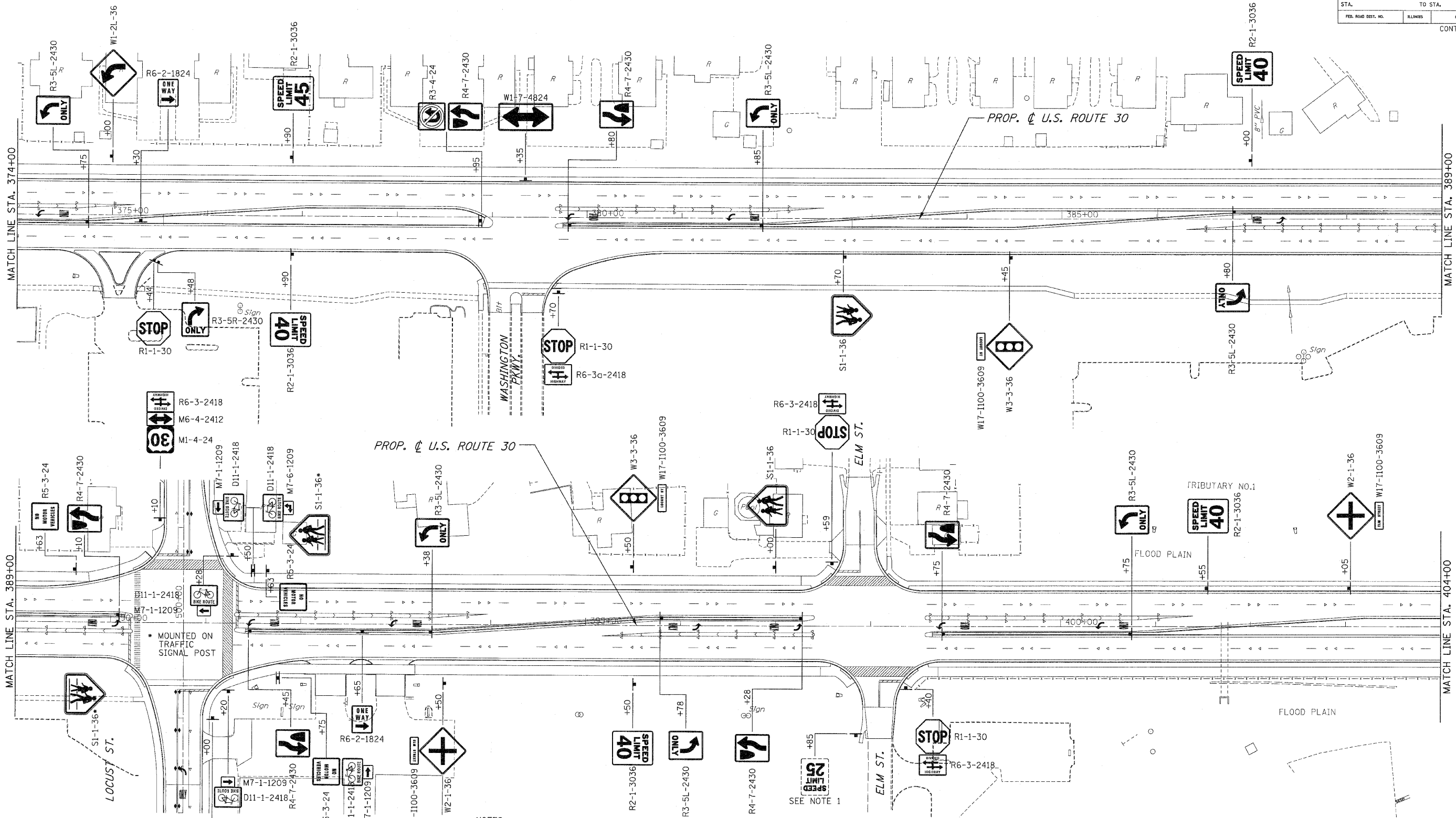
U.S. RTE. 30 (LINCOLN HIGHWAY)

STA. 318+00 TO STA. 346+00

SCALE : 1" = 50'  
DATE : 10/12/2010

DRAWN BY : BAE  
CHECKED BY : GB

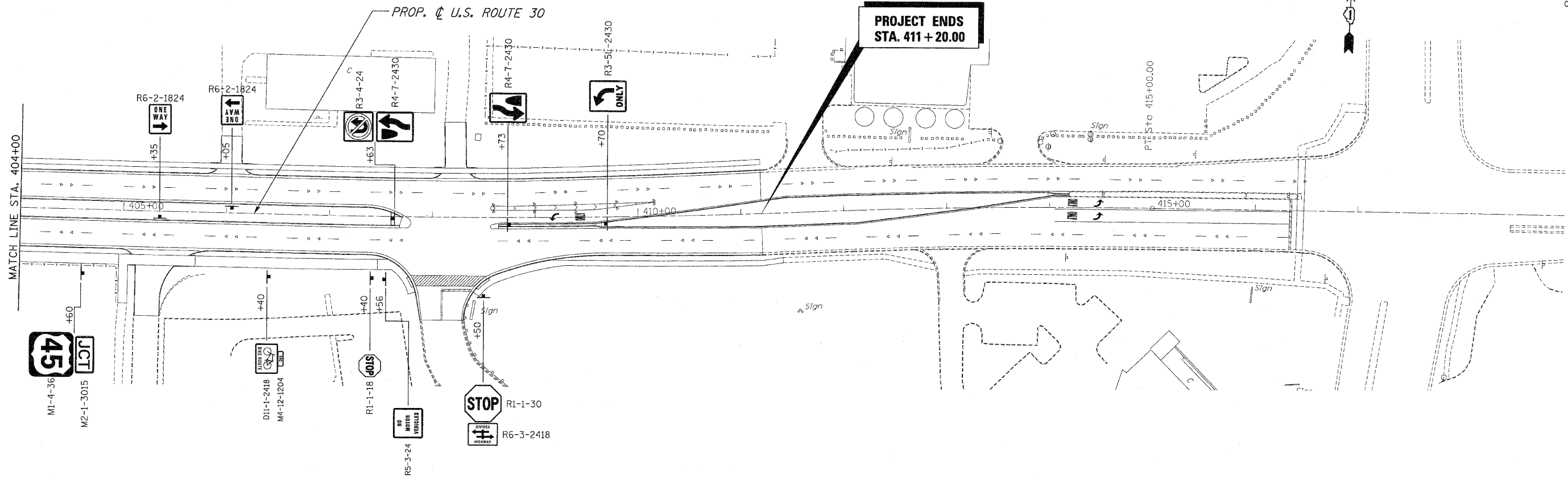




- NOTES:**
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  - SIGNING PLAN BASED ON SIGN SURVEY BY IDOT 2-19-02. EXISTING SIGNS ENCOUNTERED THAT ARE NOT SHOWN IN THE PLAN SHALL BE RELOCATED PER ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS OR REMOVED AS DIRECTED BY THE ENGINEER.
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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>SIGNING PLANS</b> U.S. RTE. 30 (LINCOLN HIGHWAY) STA. 374+00 TO STA. 404+00 SCALE : 1" = 50'      DRAWN BY : BAE DATE : 10/12/2010      CHECKED BY : GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	520
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62479				



**NOTES:**

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SIGNING PLANS**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 STA. 404+00 TO STA. 419+00  
 SCALE : 1" = 50'  
 DATE : 10/12/2010  
 DRAWN BY : BAE  
 CHECKED BY : GB

TRAFFIC SIGNAL SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	521
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62479

ITEM	UNIT	TOTAL QUANTITY	NEW LENOX					MOKENA	FRANKFORT		FIRE PROTECTION DISTRICT		INTERCONNECT	
			MARLEY	SCHOOL-HOUSE	VANCINA	JOLIET	FLASHING BEACON	OWENS	ELSNER	LOCUST	NEW LENOX	FRANKFORT	LOCATION 1	LOCATION 2
SIGN PANEL - TYPE 1	SQ FT	147.5	15		50	33		13.5	13.5	13.5				
SIGN PANEL - TYPE 2	SQ FT	245	30	60	30	30		50	15	30				
WOOD SIGN SUPPORT	FOOT	19					19							
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	21240	566	521	470	576		477	548	507			7857	9718
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	31		10	21									
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	301	53	15	88	35		26	24	60				
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	371	25	75	61	25		25	135	25				
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	4665	251	291	367	202		225	242	209			1129	1749
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	183		33	21				129					
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	131		71	16			24	20					
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	2923	444	515	423	399		448	224	470				
HANDHOLE	EACH	60	4	4	4	4		4	4	4			15	17
HEAVY-DUTY HANDHOLE	EACH	25	4	4	3	4		4	2	4				
DOUBLE HANDHOLE	EACH	14	2	2	2	2		2	2	2				
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	21643	599	594	561	599		501	668	546			7857	9718
TRANSCEIVER - FIBER OPTIC	EACH	7											4	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	7166	1340	1621	195	591		1317	696	1406				
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	10736	1728	2070	1092	920		1957	1138	1831				
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	9903	1322	1286	2067	1536		1262	1053	1377				
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	12577	1669	2493	2071	1146		1915	1523	1760				
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	18986	2508	3356	3564	2540		2796	1810	2412				
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	489	94	45	49	57		37	176	31				
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1			1									
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1							1					
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	7		3	1			1	2					
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1							1					
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2			1				1					
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1			1									
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2							2					
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1				1								
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	4		1	1			2						
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	3			2	1								
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	3	2	1										
STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1		1										
STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1								1				

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SUMMARY OF QUANTITIES  
US RTE. 30 (LINCOLN HIGHWAY)

SCALE : 1" = NTS  
DATE : 10/12/2010  
DRAWN BY : RG  
DESIGNED BY : GB  
CHECKED BY : ZH

TRAFFIC SIGNAL SUMMARY OF QUANTITIES (CONT.)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	522
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

ITEM	UNIT	TOTAL QUANTITY	NEW LENOX					MOKENA	FRANKFORT		FIRE PROTECTION DISTRICT		INTERCONNECT	
			MARLEY	SCHOOL-HOUSE	VANCINA	JOLIET	FLASHING BEACON	OWENS	ELSNER	LOCUST	NEW LENOX	FRANKFORT	LOCATION 1	LOCATION 2
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	3	1	1						1				
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 22 FT.	EACH	1				1								
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 50 FT. AND 18 FT.	EACH	1								1				
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 56 FT. AND 10 FT.	EACH	1					1							
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 52 FT. AND 26 FT.	EACH	1								1				
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 60 FT. AND 14 FT.	EACH	1					1							
CONCRETE FOUNDATION, TYPE A	FOOT	40		12	8		4	16						
CONCRETE FOUNDATION, TYPE C	FOOT	28	4	4	4	4	4	4	4					
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30			20			10						
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	231	30	28	39	54	26	22	32					
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	168	42	42			42		42					
DRILL EXISTING HANDHOLE	EACH	4										1	3	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	39	6	5	6	6	6	4	6					
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4			1			3						
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	3			3									
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	13	3	3		2	1	2	2					
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	34	5	5	3	6	7	2	6					
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		1			1							
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	1			1									
SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1			1									
SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1			1									
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14		6	2	2	2	2						
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14	4	1		1	3	1	4					
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	76	11	10	12	12	13	6	12					
INDUCTIVE LOOP DETECTOR	EACH	71	10	11	12	10	11	7	10					
LIGHT DETECTOR	EACH	12								8	4			
LIGHT DETECTOR AMPLIFIER	EACH	5								3	2			
PEDESTRIAN PUSH-BUTTON	EACH	42	8	8	2	4	8	4	8					
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	4	1	1	1				1					
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4								2	2			
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2								1	1			
RELOCATE EXISTING FLASHING BEACON	EACH	1					1							
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	1	1	1				1					
REMOVE EXISTING HANDHOLE	EACH	33	4	12	9				8					
REMOVE EXISTING CONCRETE FOUNDATION	EACH	24		9	6				9					

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL  
SUMMARY OF QUANTITIES**  
**US RTE. 30 (LINCOLN HIGHWAY)**  
SCALE : 1" = NTS  
DATE : 10/12/2010  
DRAWN BY : RG  
DESIGNED BY : GB  
CHECKED BY : ZH

TRAFFIC SIGNAL SUMMARY OF QUANTITIES (CONT.)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	523
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62479

ITEM	UNIT	TOTAL QUANTITY	NEW LENOX					MOKENA	FRANKFORT		FIRE PROTECTION DISTRICT		INTERCONNECT	
			MARLEY	SCHOOL-HOUSE	VANCINA	JOLIET	FLASHING BEACON	OWENS	ELSNER	LOCUST	NEW LENOX	FRANKFORT	LOCATION 1	LOCATION 2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2										1	1	
PREFORMED DETECTOR LOOP	FOOT	6395	982	1315	874	824	971	473	956					
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	25177										11497	13680	
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	1	1	1			1						
FLASHING BEACON, POST MOUNTED, SOLAR POWERED INSTALLATION	EACH	1									1			
FULL-ACTUATED CONTROLLER AND CABINET (SPECIAL)	EACH	7	1	1	1	1	1	1	1					
SERVICE INSTALLATION - POLE MOUNTED	EACH	7	1	1	1	1	1	1	1					
UNINTERRUPTIBLE POWER SUPPLY	EACH	7	1	1	1	1	1	1	1					
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	25338										11589	13749	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	5602	753	905	852	653	858	858	723					
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	3019									1916	1103		
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 14 FT. AND 52 FT.	EACH	1				1								
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 60 FT.	EACH	1	1											

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>TRAFFIC SIGNAL SUMMARY OF QUANTITIES</p> <p>US RTE. 30 (LINCOLN HIGHWAY)</p> <p>SCALE : 1" = NTS DATE : 10/12/2010</p> <p>DRAWN BY : RG DESIGNED BY : GB CHECKED BY : ZH</p>

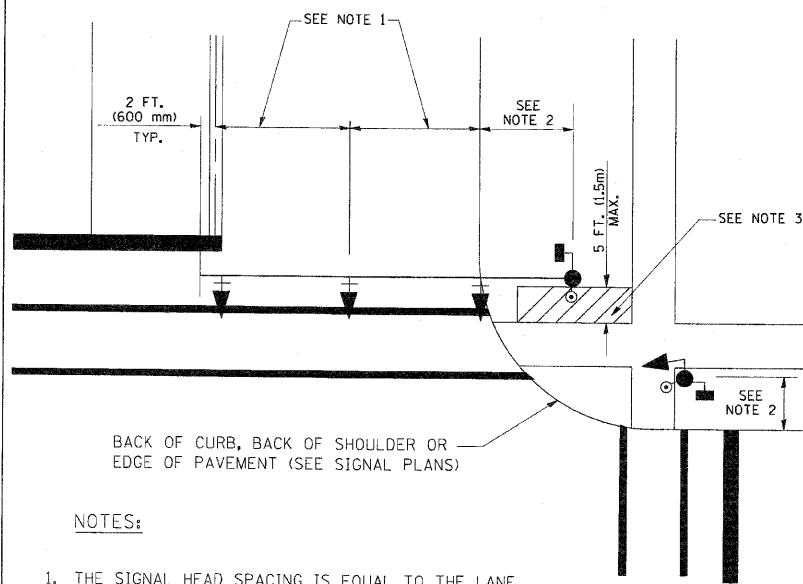




F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	525
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

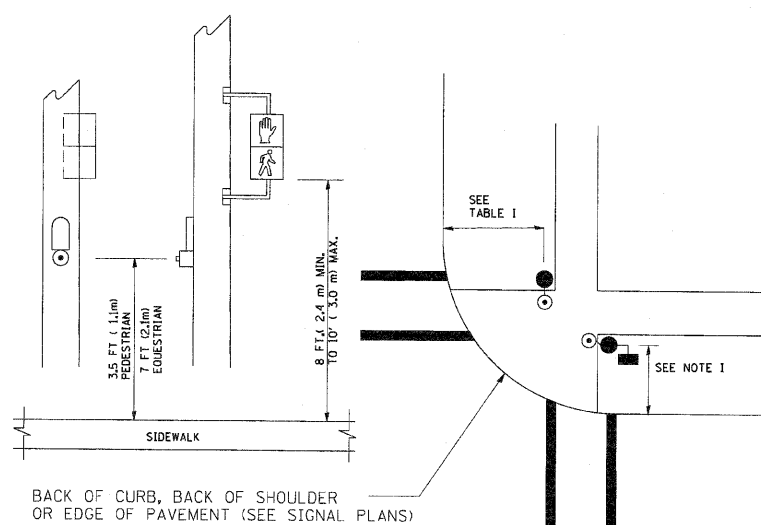
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**NOTES:**

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

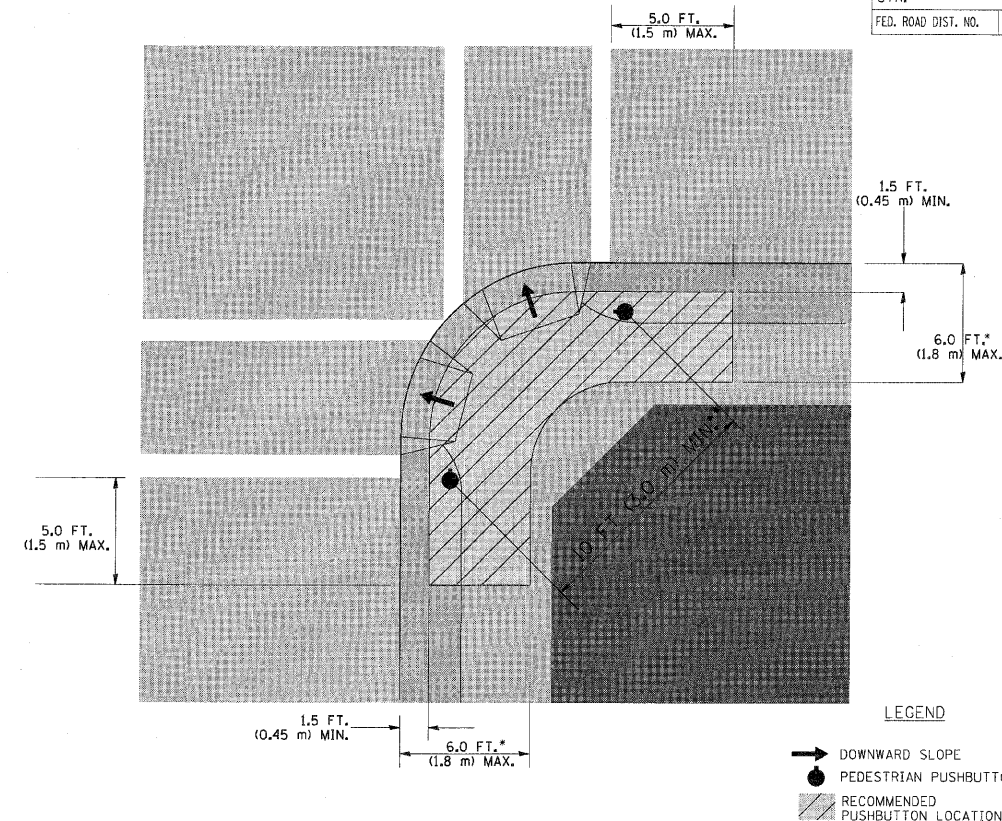
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

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

**RECOMMENDED PUSHBUTTON LOCATIONS**



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- \*\* WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

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

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

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

**NOTES:**

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

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	1/01/02
BCK	10/28/09

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS

SCALE: NONE

DRAWN BY: BCK  
DESIGNED BY: DAD  
CHECKED BY: DAD  
SHEET 2 OF 6

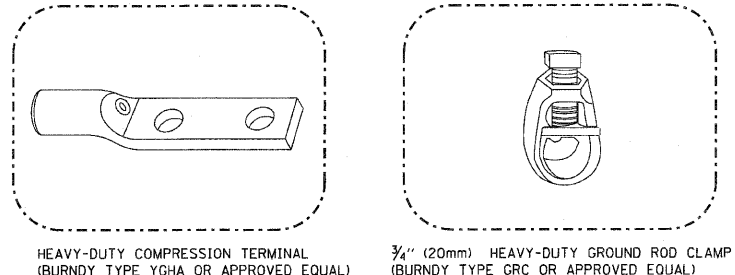
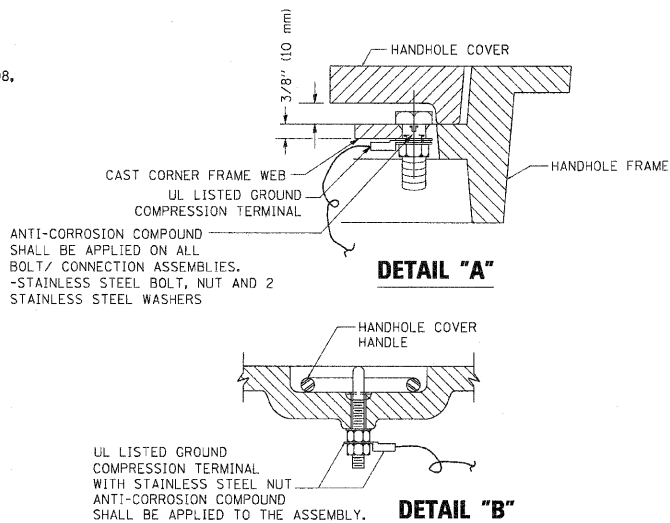
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13) WRS-3	WILL.	1235	526
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**NOTES:**

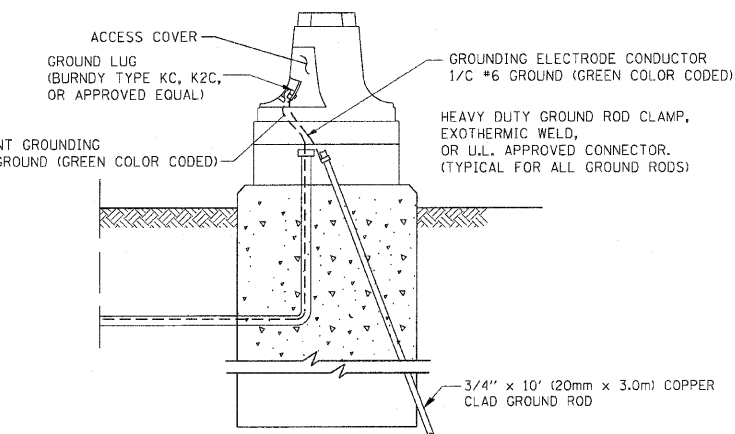
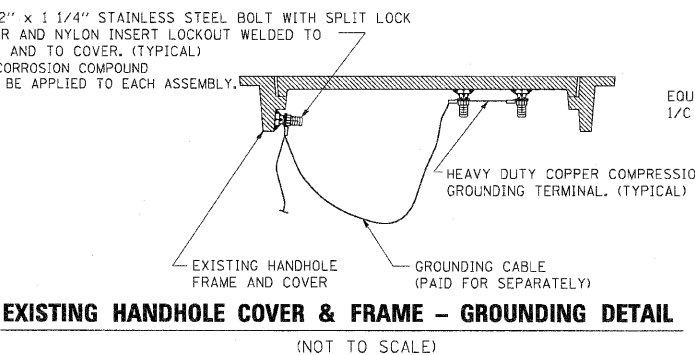
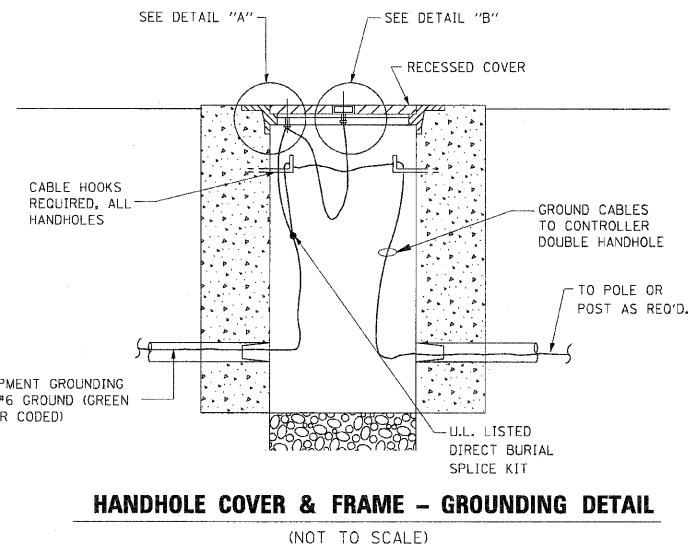
**GROUNDING SYSTEM**

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



**NOTES:**

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



**MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)**

REVISIONS	
NAME	DATE
CADD	5/30/00
CADD	3/15/01
BUREAU OF TRAFFIC	1/01/02
BCK	10/28/09

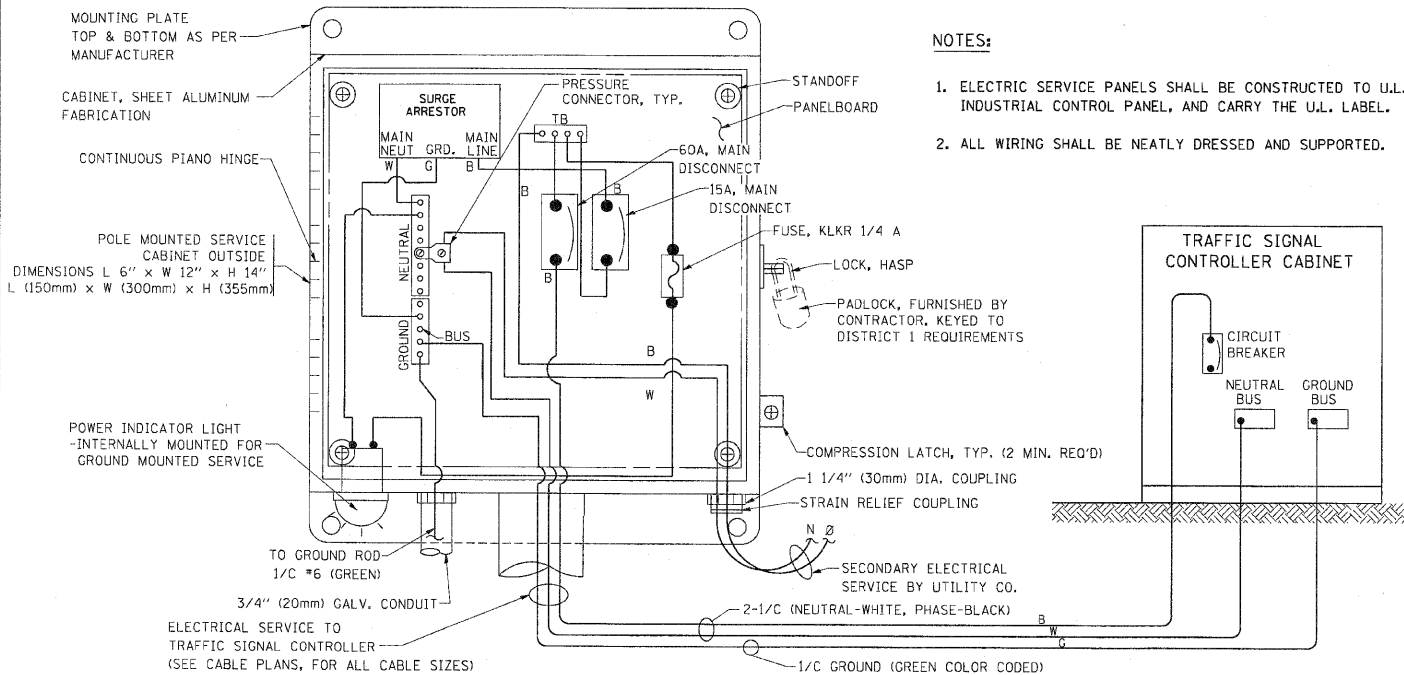
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS

SCALE: NONE

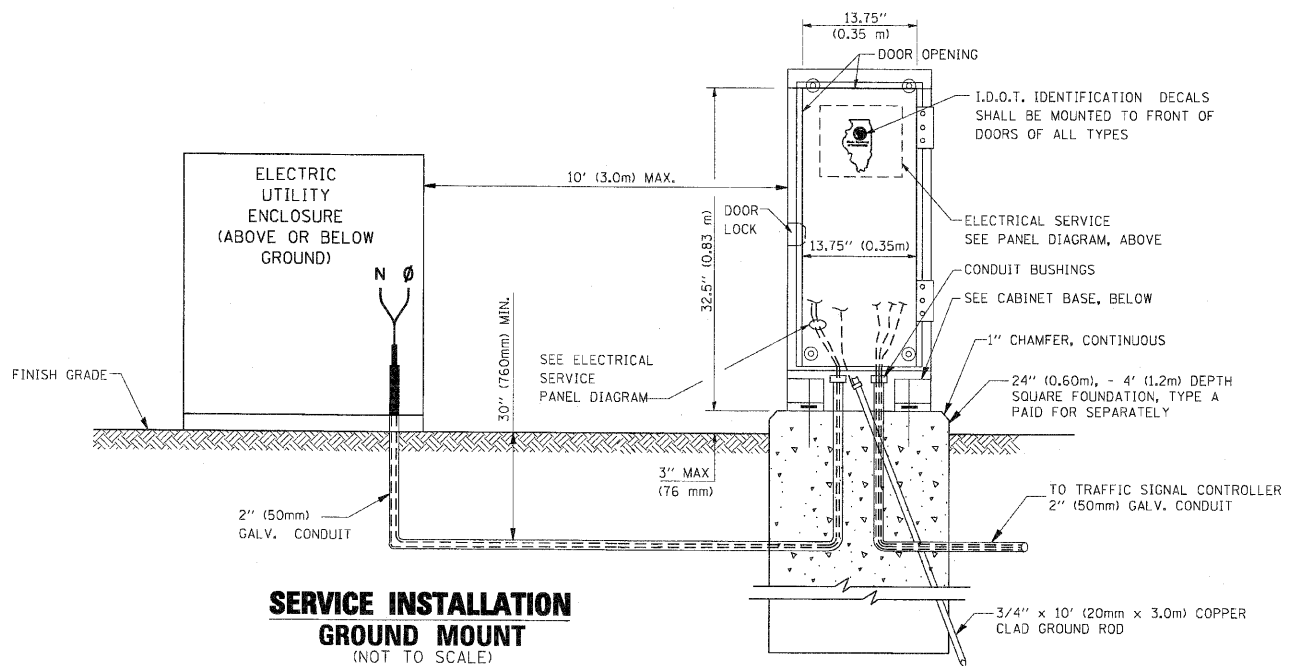
DRAWN BY: BCK  
DESIGNED BY: DAD  
CHECKED BY: DAD  
SHEET 3 OF 6

**NOTES:**

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

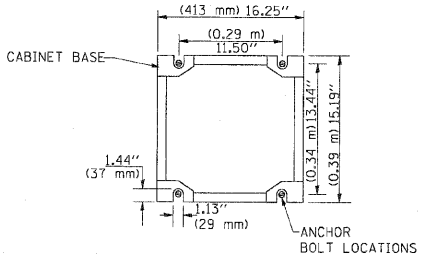


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**



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

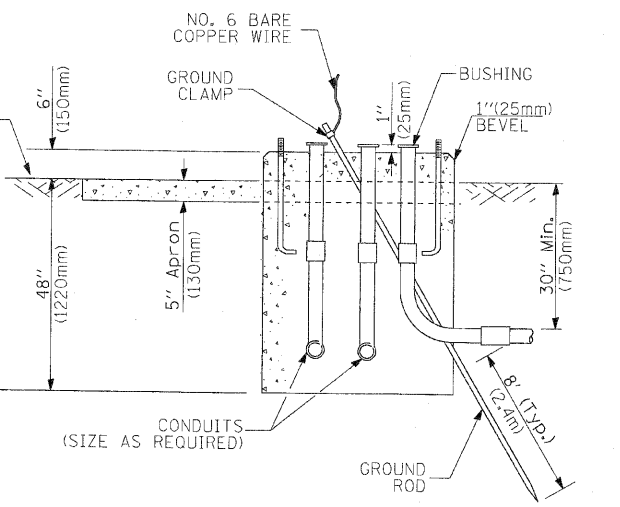
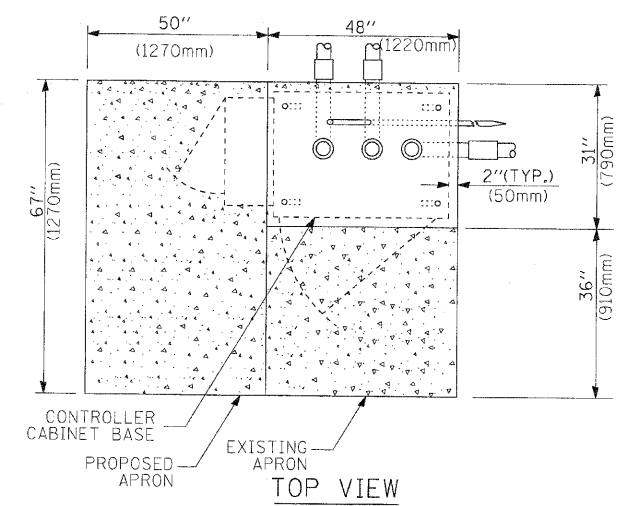
**CABINET - BASE BOLT PATTERN (NOT TO SCALE)**



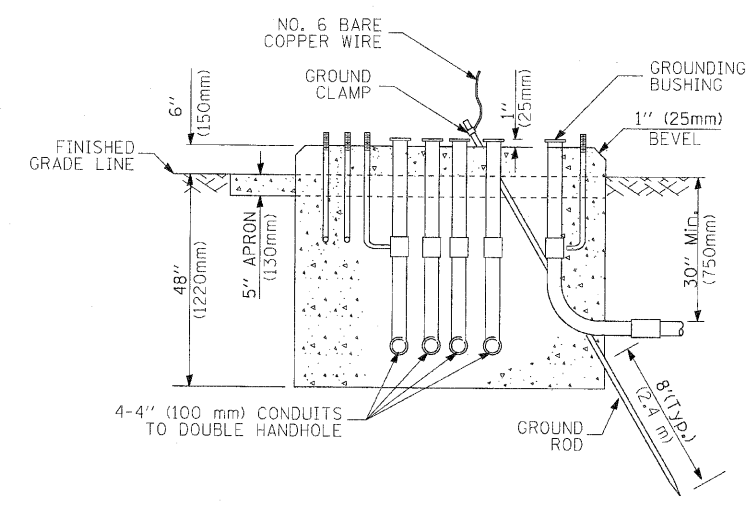
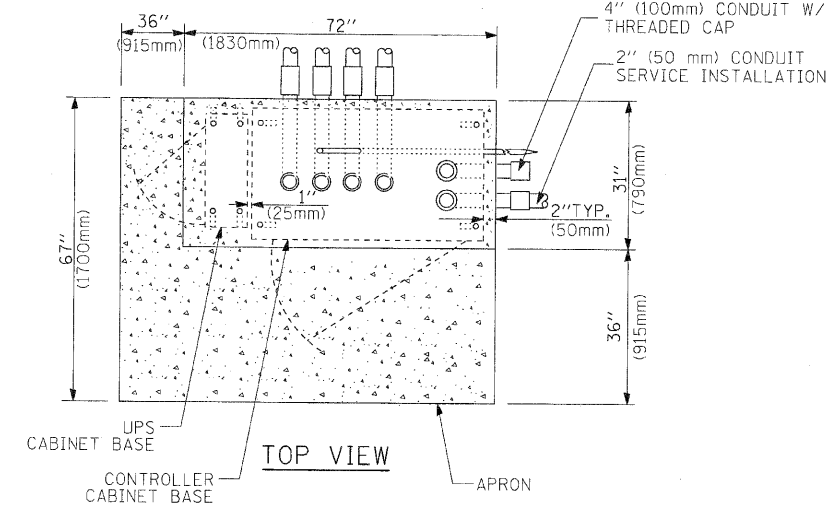
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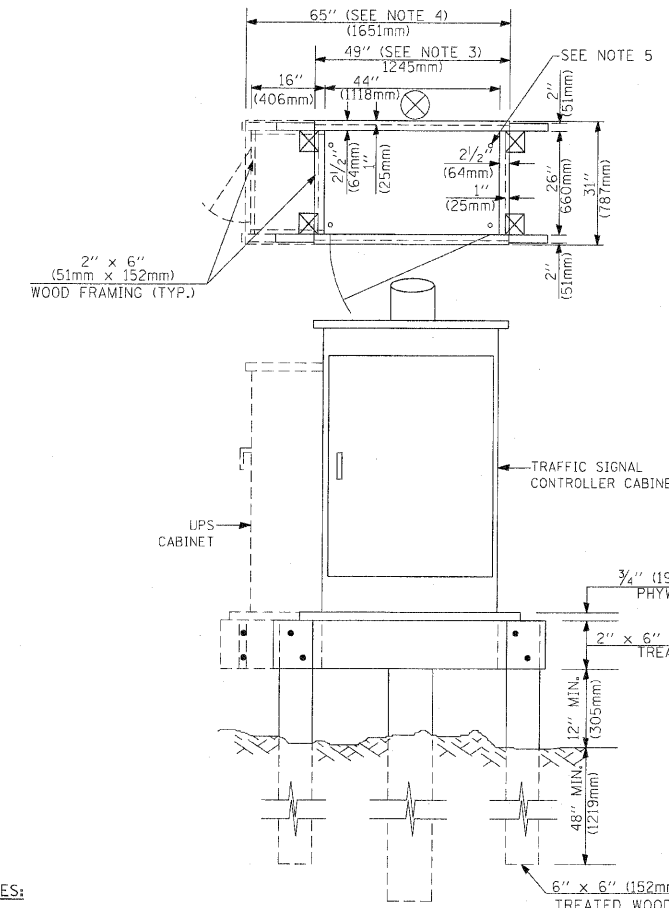
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13) WRS-3	WILL	1235	528
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TYPE C  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

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

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

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

**DEPTH OF FOUNDATION**

REVISIONS	
NAME	DATE
	5/30/00
	3/15/01
	11/12/01

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS**

SCALE: NONE

DRAWN BY: BCK  
DESIGNED BY: DAD  
CHECKED BY: DAD  
SHEET 5 OF 6

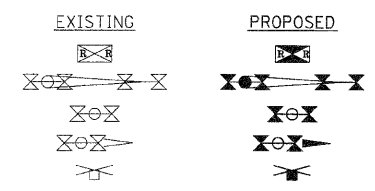
# TRAFFIC SIGNAL LEGEND

CONTRACT NO. 62479				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	529
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F 5M12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F 5M12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER							
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

## RAILROAD SYMBOLS

- RAILROAD CONTROL CABINET
- RAILROAD CANTILEVER MAST ARM
- FLASHING SIGNAL
- CROSSING GATE
- CROSSBUCK



REVISIONS	
NAME	DATE
	5/30/00
	3/15/01
	11/12/01

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS

SCALE: NONE

DRAWN BY: BCK  
DESIGNED BY: DAD  
CHECKED BY: DAD  
SHEET 6 OF 6

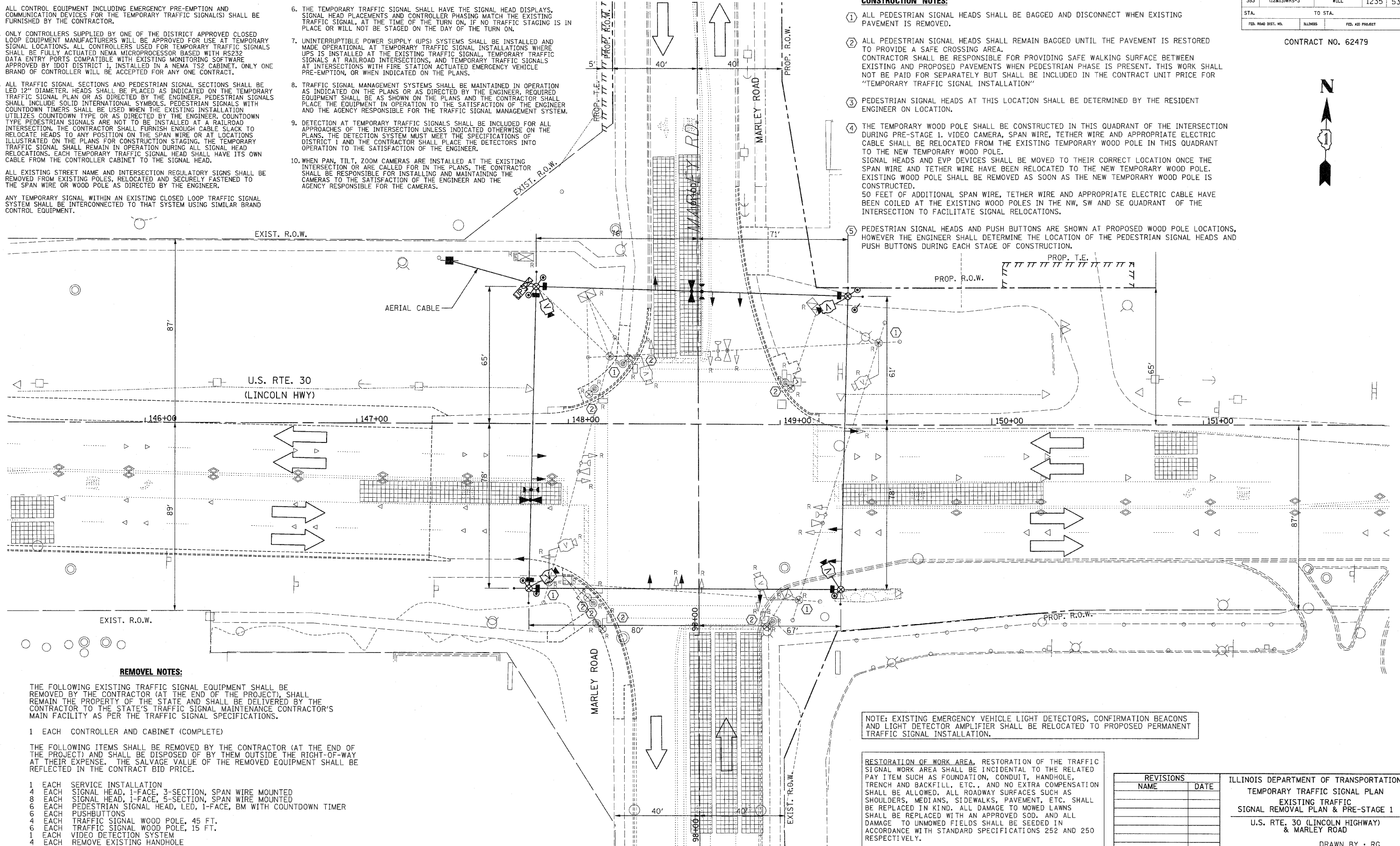
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**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1. INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON. IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

**CONSTRUCTION NOTES:**

- ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
- PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- THE TEMPORARY WOOD POLE SHALL BE CONSTRUCTED IN THIS QUADRANT OF THE INTERSECTION DURING PRE-STAGE 1. VIDEO CAMERA, SPAN WIRE, TETHER WIRE AND APPROPRIATE ELECTRIC CABLE SHALL BE RELOCATED FROM THE EXISTING TEMPORARY WOOD POLE IN THIS QUADRANT TO THE NEW TEMPORARY WOOD POLE. SIGNAL HEADS AND EVP DEVICES SHALL BE MOVED TO THEIR CORRECT LOCATION ONCE THE SPAN WIRE AND TETHER WIRE HAVE BEEN RELOCATED TO THE NEW TEMPORARY WOOD POLE. EXISTING WOOD POLE SHALL BE REMOVED AS SOON AS THE NEW TEMPORARY WOOD POLE IS CONSTRUCTED. 50 FEET OF ADDITIONAL SPAN WIRE, TETHER WIRE AND APPROPRIATE ELECTRIC CABLE HAVE BEEN COILED AT THE EXISTING WOOD POLES IN THE NW, SW AND SE QUADRANT OF THE INTERSECTION TO FACILITATE SIGNAL RELOCATIONS.
- PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS ARE SHOWN AT PROPOSED WOOD POLE LOCATIONS, HOWEVER THE ENGINEER SHALL DETERMINE THE LOCATION OF THE PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS DURING EACH STAGE OF CONSTRUCTION.



**REMOVAL NOTES:**

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR (AT THE END OF THE PROJECT) AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- 1 EACH SERVICE INSTALLATION
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED
- 8 EACH SIGNAL HEAD, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED
- 6 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BM WITH COUNTDOWN TIMER
- 4 EACH PUSHBUTTONS
- 6 EACH TRAFFIC SIGNAL WOOD POLE, 45 FT.
- 6 EACH TRAFFIC SIGNAL WOOD POLE, 15 FT.
- 1 EACH VIDEO DETECTION SYSTEM
- 4 EACH REMOVE EXISTING HANDHOLE
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)

NOTE: EXISTING EMERGENCY VEHICLE LIGHT DETECTORS, CONFIRMATION BEACONS AND LIGHT DETECTOR AMPLIFIER SHALL BE RELOCATED TO PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION.

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 EXISTING TRAFFIC  
 SIGNAL REMOVAL PLAN & PRE-STAGE 1  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & MARLEY ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RC  
 DESIGNED BY: GB  
 CHECKED BY: ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	530
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

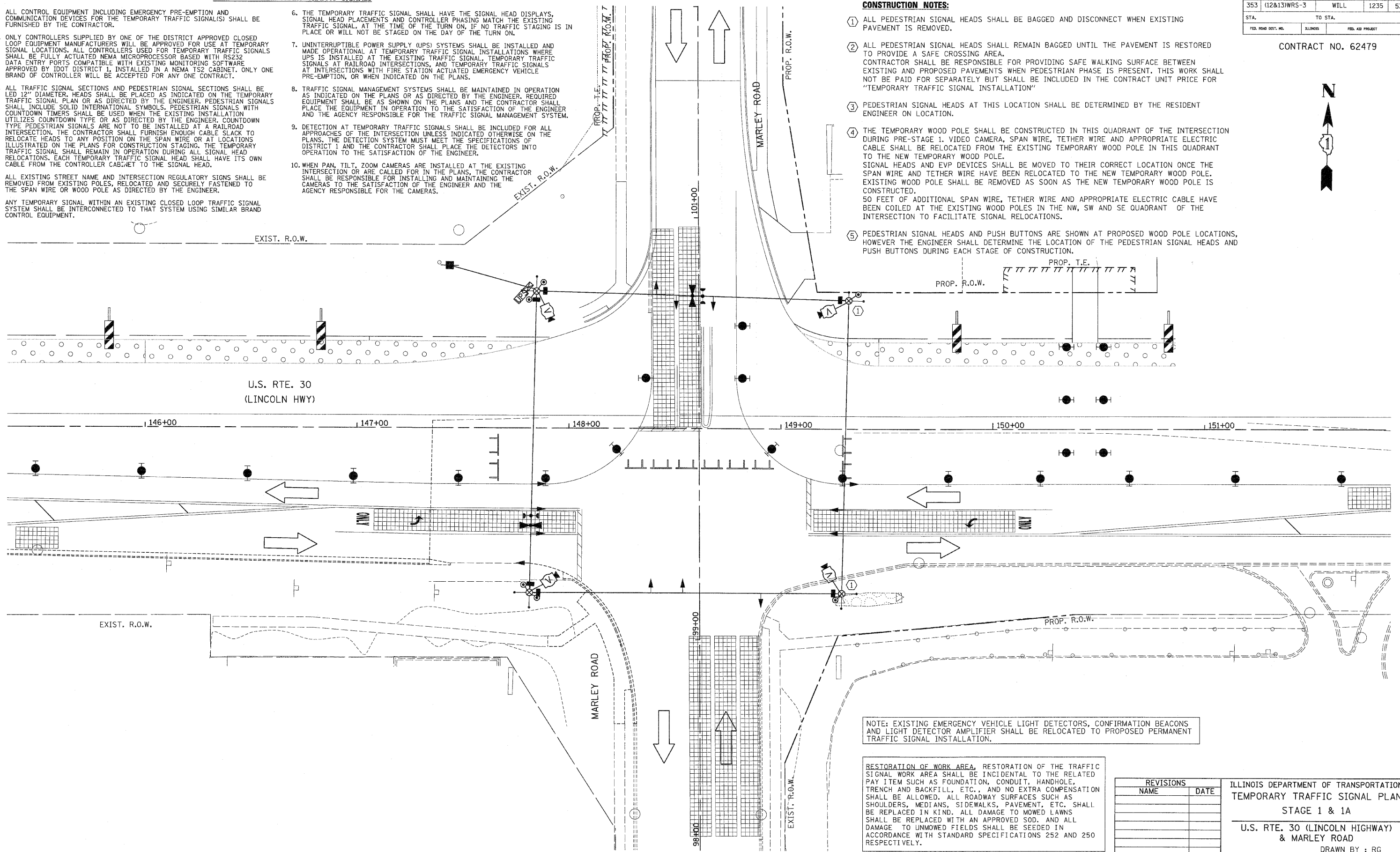
1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
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6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON. IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
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**CONSTRUCTION NOTES:**

1. ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
2. ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
3. PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	531
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62479



NOTE: EXISTING EMERGENCY VEHICLE LIGHT DETECTORS, CONFIRMATION BEACONS AND LIGHT DETECTOR AMPLIFIER SHALL BE RELOCATED TO PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION.

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 1 & 1A  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & MARLEY ROAD  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH  
 SCALE : 1" = 20'  
 DATE : 10/12/2010

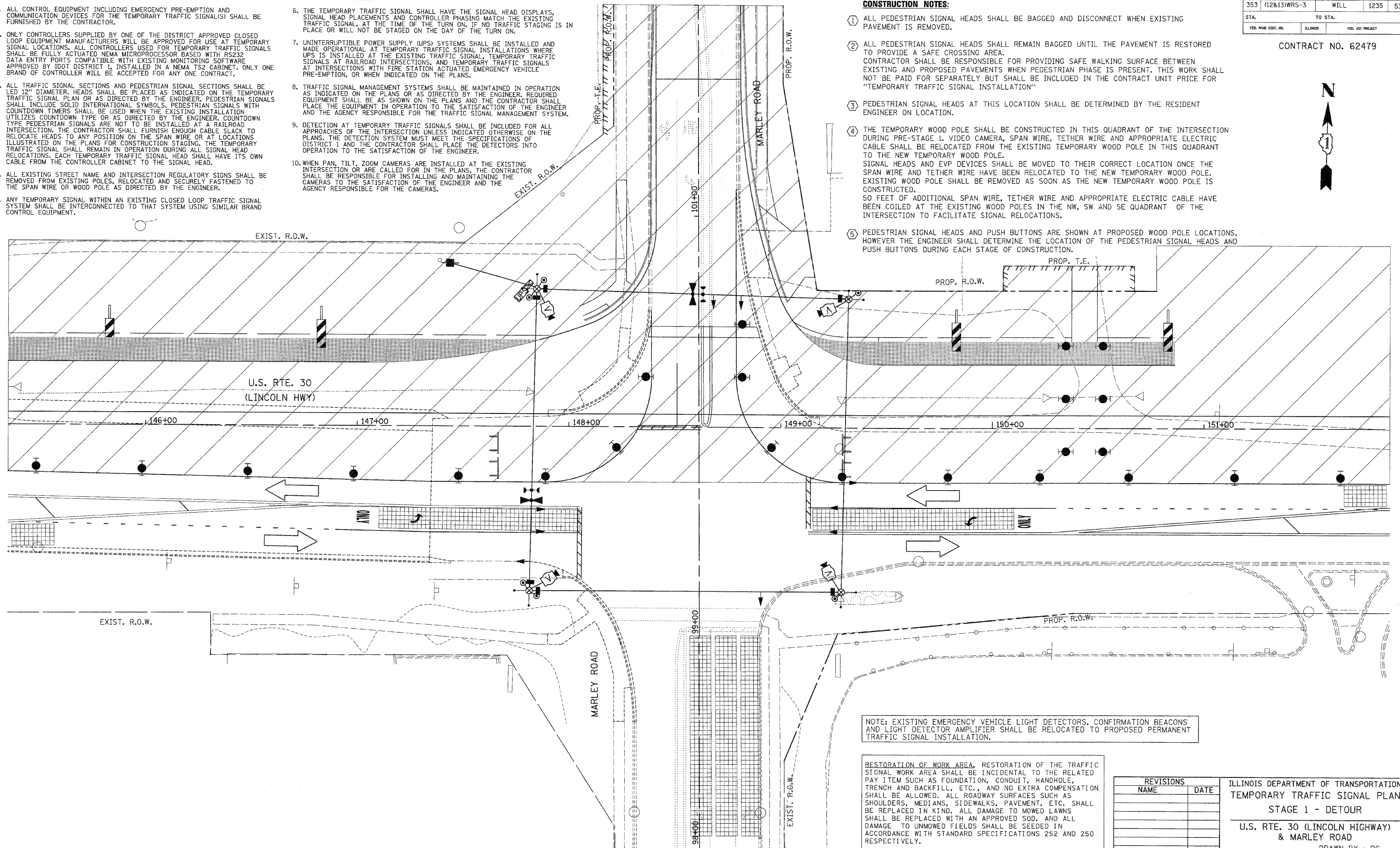


**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

**CONSTRUCTION NOTES:**

1. ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
2. ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
3. PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
4. THE TEMPORARY WOOD POLE SHALL BE CONSTRUCTED IN THIS QUADRANT OF THE INTERSECTION DURING PRE-STAGE 1. VIDEO CAMERA, SPAN WIRE, TETHER WIRE AND APPROPRIATE ELECTRIC CABLE SHALL BE RELOCATED FROM THE EXISTING TEMPORARY WOOD POLE IN THIS QUADRANT TO THE NEW TEMPORARY WOOD POLE. SIGNAL HEADS AND EVP DEVICES SHALL BE MOVED TO THEIR CORRECT LOCATION ONCE THE SPAN WIRE AND TETHER WIRE HAVE BEEN RELOCATED TO THE NEW TEMPORARY WOOD POLE. EXISTING WOOD POLE SHALL BE REMOVED AS SOON AS THE NEW TEMPORARY WOOD POLE IS CONSTRUCTED. 50 FEET OF ADDITIONAL SPAN WIRE, TETHER WIRE AND APPROPRIATE ELECTRIC CABLE HAVE BEEN COILED AT THE EXISTING WOOD POLES IN THE NW, SW AND SE QUADRANT OF THE INTERSECTION TO FACILITATE SIGNAL RELOCATIONS.
5. PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS ARE SHOWN AT PROPOSED WOOD POLE LOCATIONS. HOWEVER THE ENGINEER SHALL DETERMINE THE LOCATION OF THE PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS DURING EACH STAGE OF CONSTRUCTION.



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 1 - DETOUR  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & MARLEY ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	532
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62479



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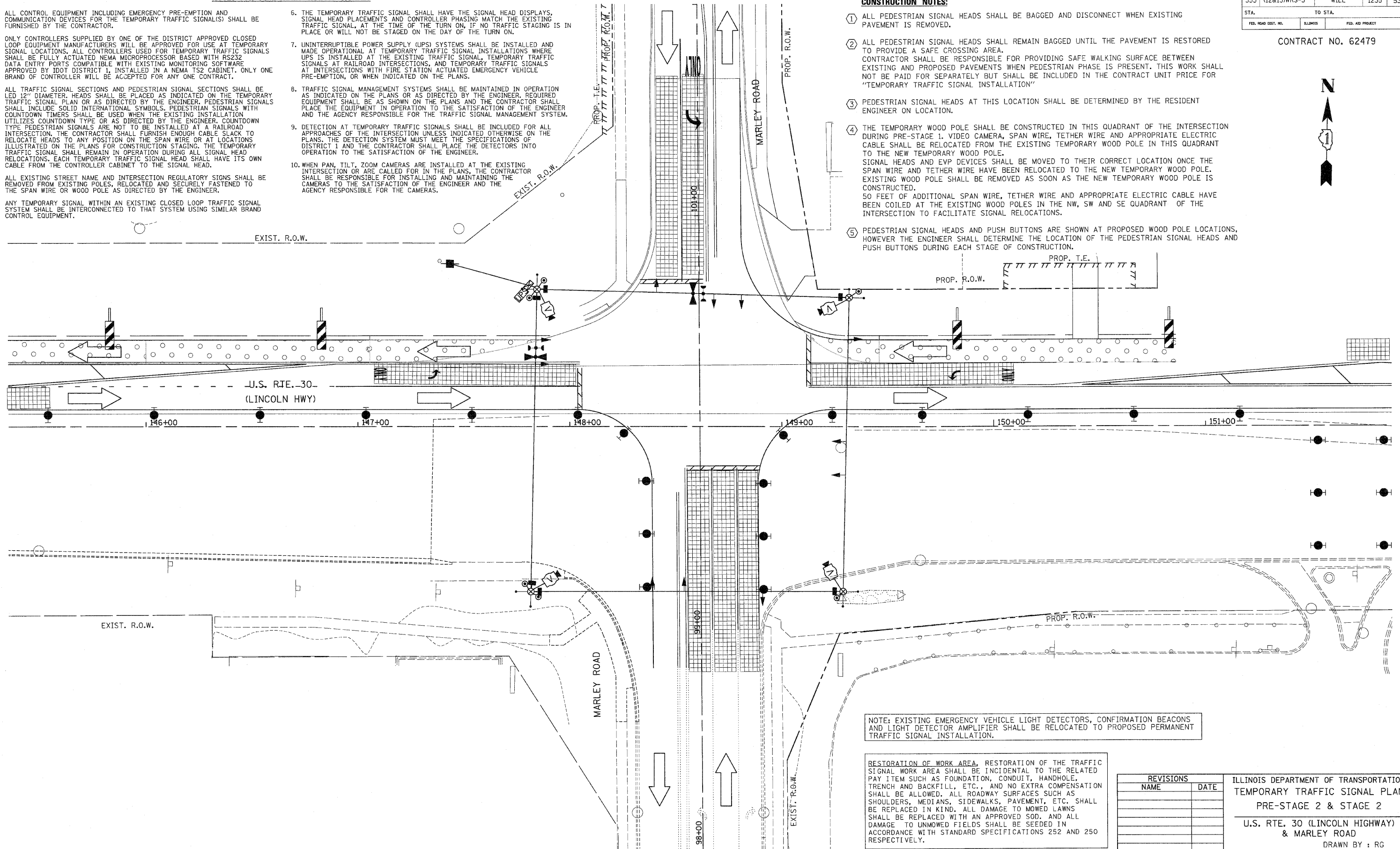
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	533
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 PRE-STAGE 2 & STAGE 2  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & MARLEY ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

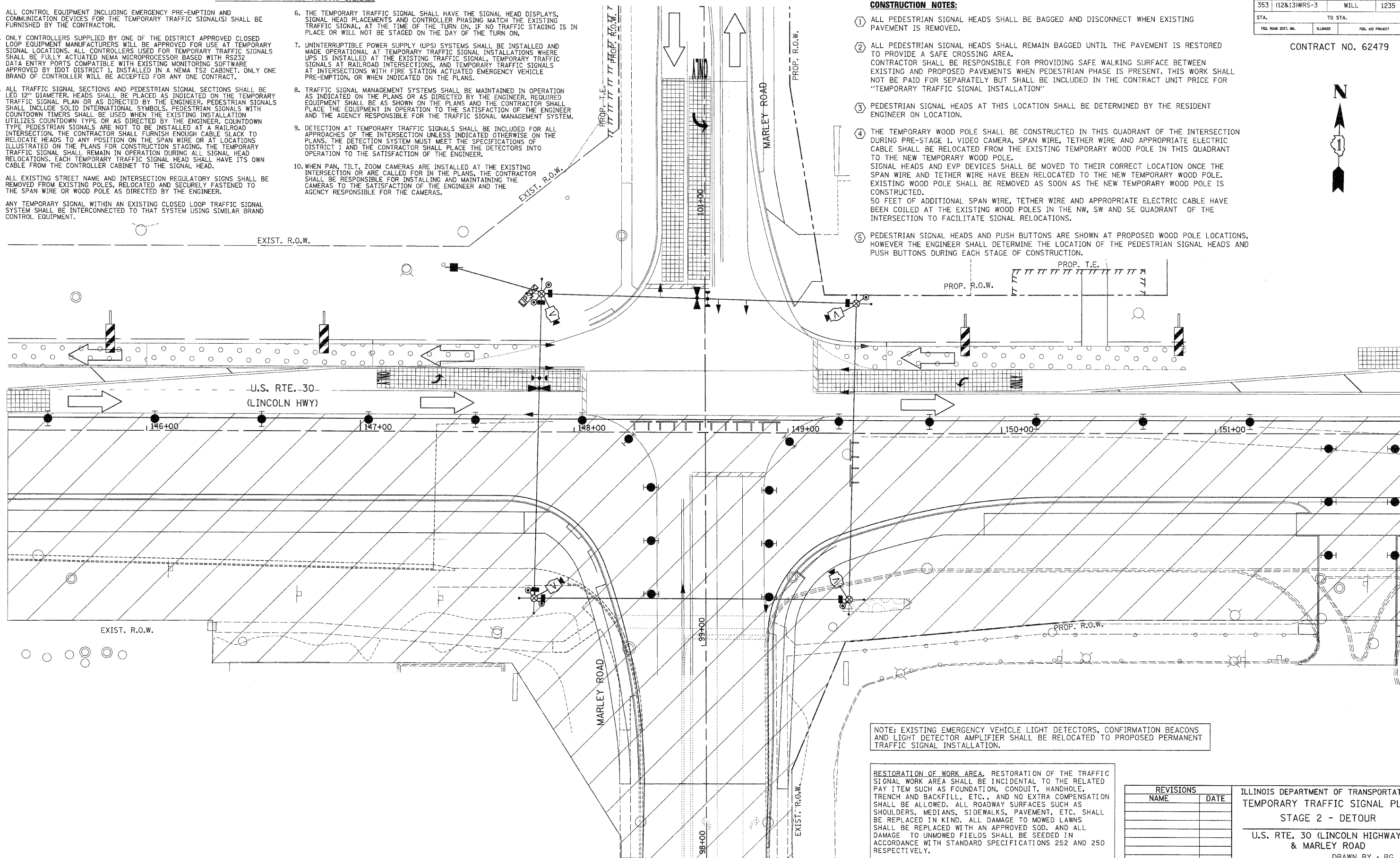
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	534
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62479



NOTE: EXISTING EMERGENCY VEHICLE LIGHT DETECTORS, CONFIRMATION BEACONS AND LIGHT DETECTOR AMPLIFIER SHALL BE RELOCATED TO PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION.

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 2 - DETOUR  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & MARLEY ROAD  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH  
 SCALE : 1" = 20'  
 DATE : 10/12/2010

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

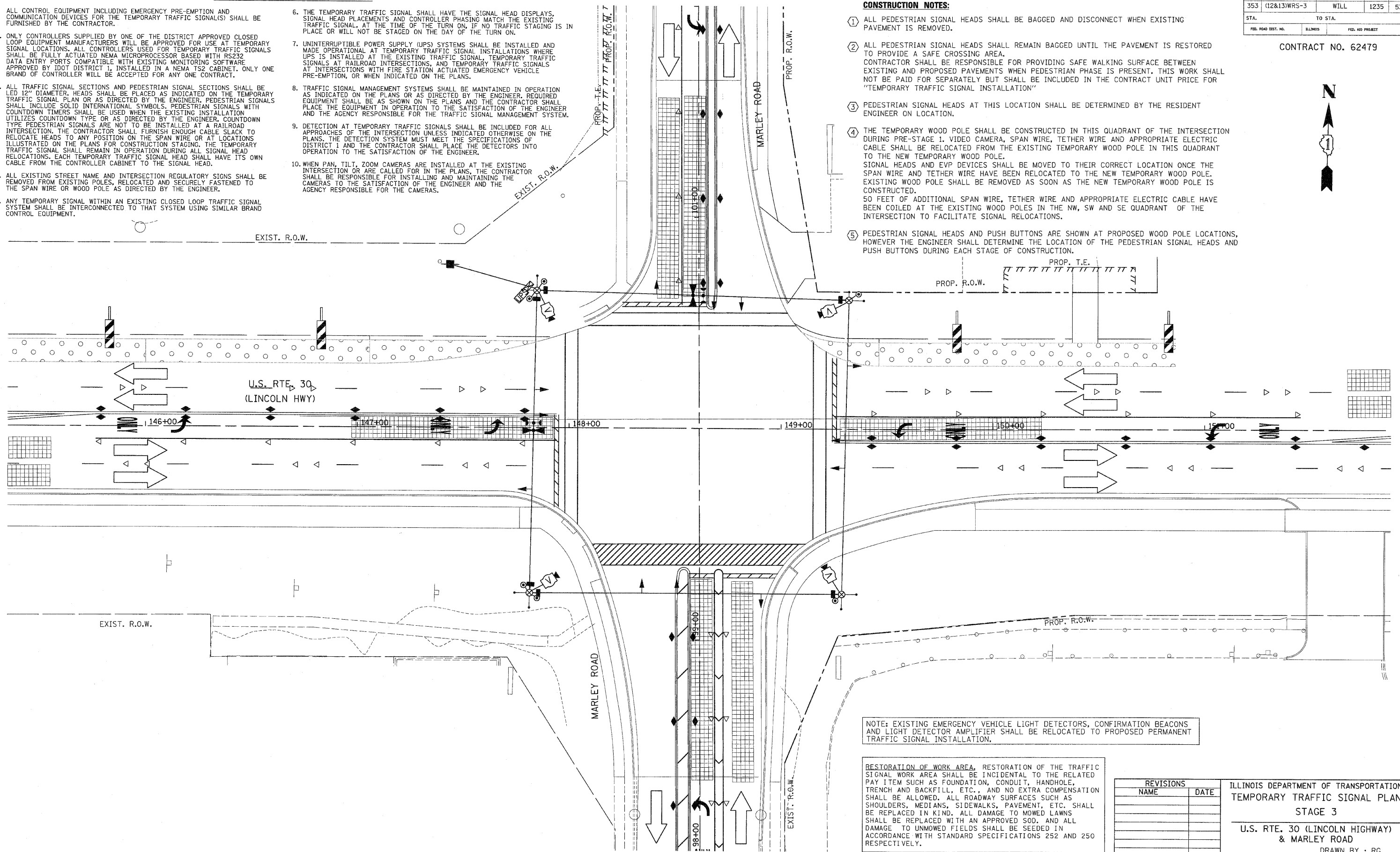
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**CONSTRUCTION NOTES:**

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- ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
- PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- THE TEMPORARY WOOD POLE SHALL BE CONSTRUCTED IN THIS QUADRANT OF THE INTERSECTION DURING PRE-STAGE 1. VIDEO CAMERA, SPAN WIRE, TETHER WIRE AND APPROPRIATE ELECTRIC CABLE SHALL BE RELOCATED FROM THE EXISTING TEMPORARY WOOD POLE IN THIS QUADRANT TO THE NEW TEMPORARY WOOD POLE. SIGNAL HEADS AND EVP DEVICES SHALL BE MOVED TO THEIR CORRECT LOCATION ONCE THE SPAN WIRE AND TETHER WIRE HAVE BEEN RELOCATED TO THE NEW TEMPORARY WOOD POLE. EXISTING WOOD POLE SHALL BE REMOVED AS SOON AS THE NEW TEMPORARY WOOD POLE IS CONSTRUCTED. 50 FEET OF ADDITIONAL SPAN WIRE, TETHER WIRE AND APPROPRIATE ELECTRIC CABLE HAVE BEEN COILED AT THE EXISTING WOOD POLES IN THE NW, SW AND SE QUADRANT OF THE INTERSECTION TO FACILITATE SIGNAL RELOCATIONS.
- PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS ARE SHOWN AT PROPOSED WOOD POLE LOCATIONS, HOWEVER THE ENGINEER SHALL DETERMINE THE LOCATION OF THE PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS DURING EACH STAGE OF CONSTRUCTION.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	535
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



NOTE: EXISTING EMERGENCY VEHICLE LIGHT DETECTORS, CONFIRMATION BEACONS AND LIGHT DETECTOR AMPLIFIER SHALL BE RELOCATED TO PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION.

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 3  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & MARLEY ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH:

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

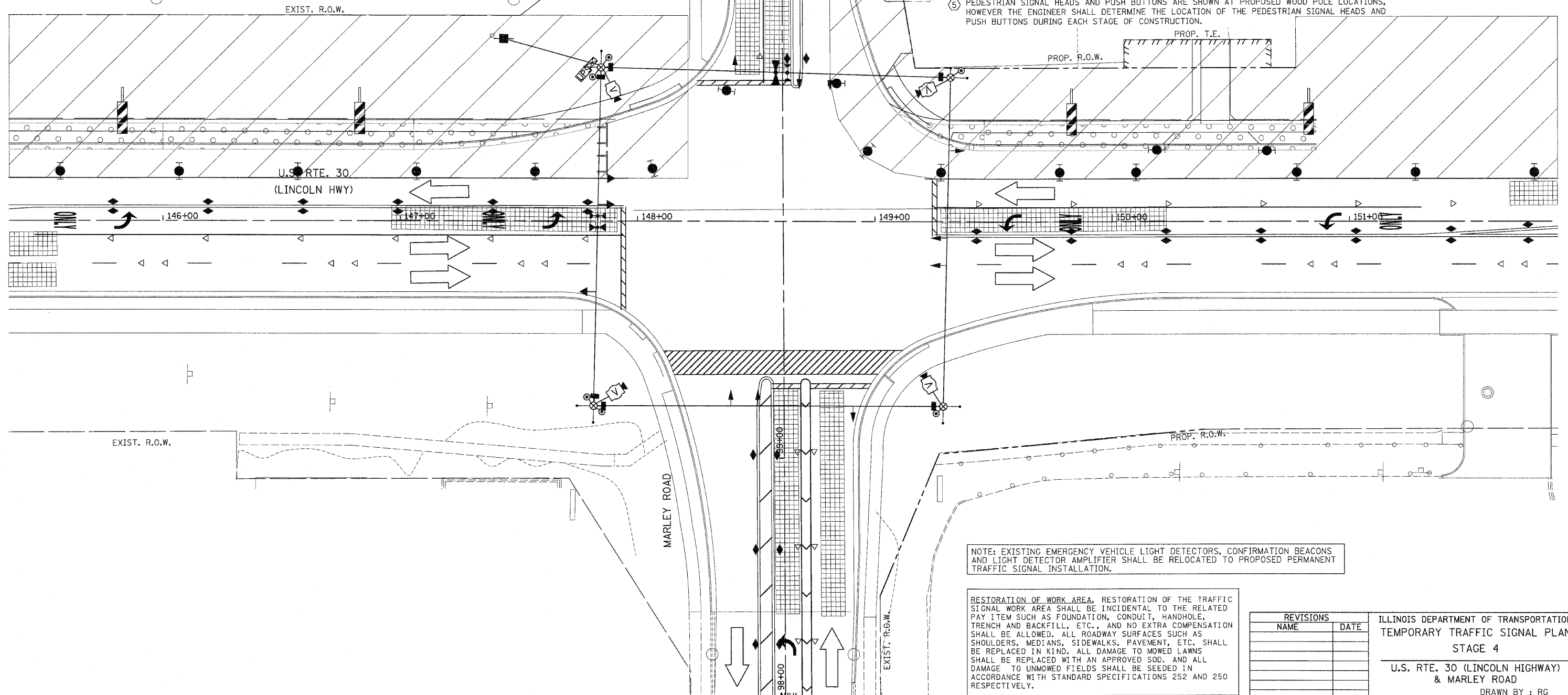
1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON. IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

**CONSTRUCTION NOTES:**

1. ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
2. ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
3. PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
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5. PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS ARE SHOWN AT PROPOSED WOOD POLE LOCATIONS, HOWEVER THE ENGINEER SHALL DETERMINE THE LOCATION OF THE PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS DURING EACH STAGE OF CONSTRUCTION.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	536
STA.		TO STA.		
FEL. ROAD DIST. NO.	BLINKS	FEL. AID PROJECT		

CONTRACT NO. 62479



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 4  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & MARLEY ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH

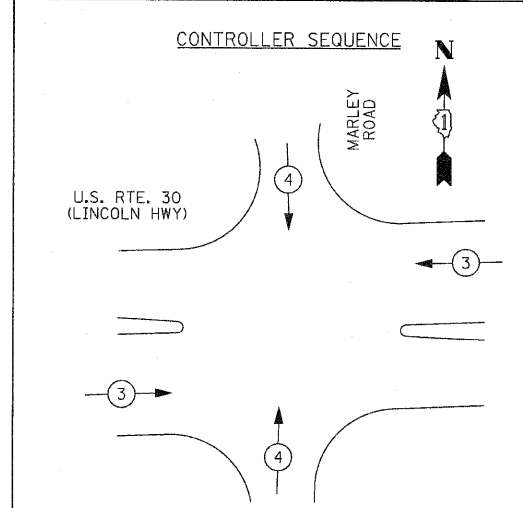
CONTRACT NO. 62479

**CONSTRUCTION NOTES:**

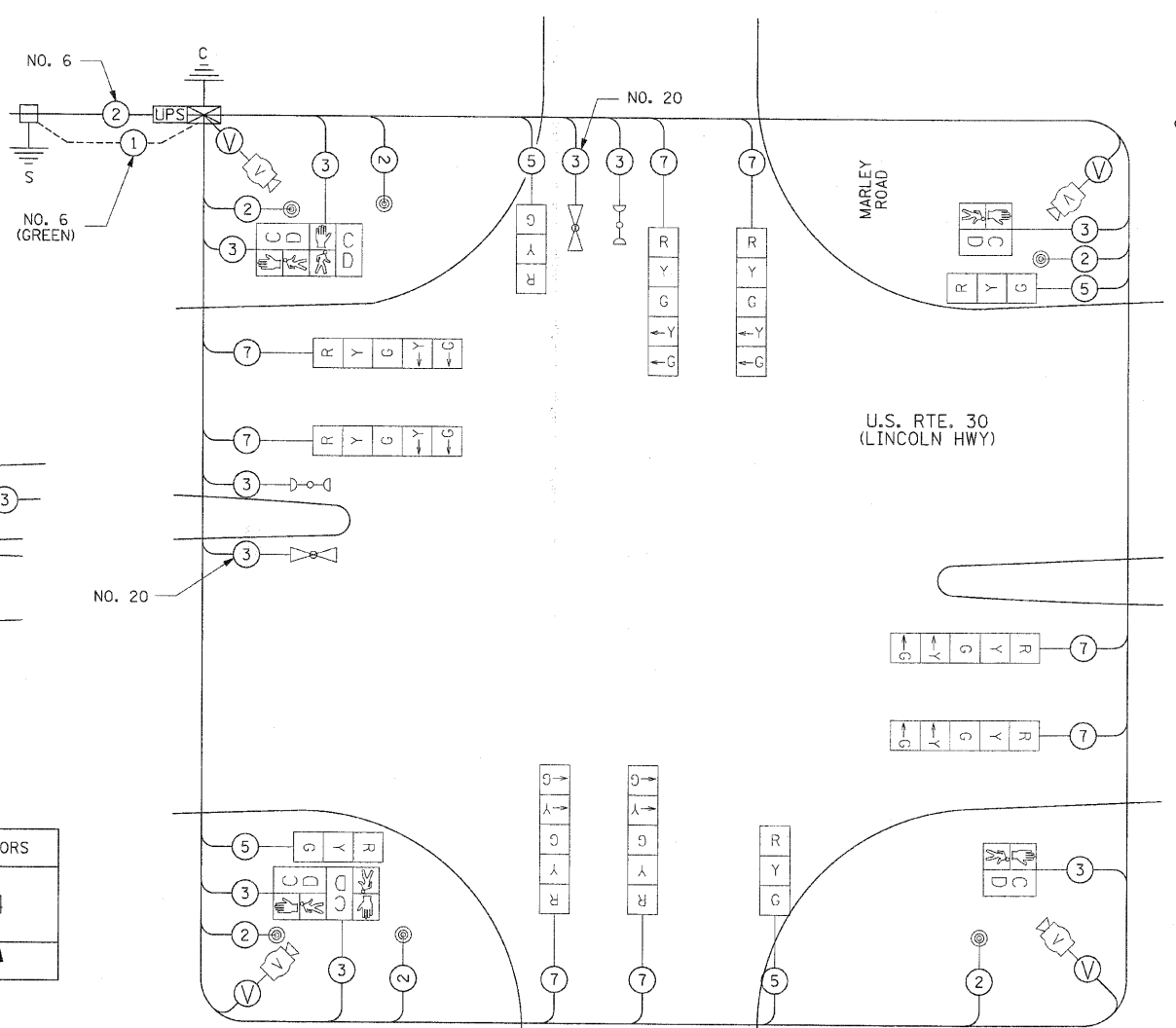
- ① ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ④ TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT FROM WASHINGTON ST. TO JOLIET HWY. IS INSTALLED AND OPERATIONAL.
- ⑤ THE PEDESTRIAN CROSS WALKS SHALL BE COORDINATED WITH THE HIGH SCHOOL DURING ALL STAGES OF CONSTRUCTION.
- ⑥ CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- ⑦ THE ENTIRE SIGNAL HEAD TO BE BAGGED AND DISCONNECTED DURING STAGE 1A UNLESS SPECIFIC LENS ARE INDICATED TO BE BAGGED.
- ⑧ THE ENTIRE SIGNAL HEAD TO BE BAGGED AND DURING STAGE 2A DISCONNECTED UNLESS SPECIFIC LENS ARE INDICATED TO BE BAGGED.
- ⑨ NO PEDESTRIAN CROSSING DURING STAGE 1 AND 2.
- ⑩ PUSHBUTTON LOCATION TO BE DETERMINED BY THE ENGINEER.

NOTE: EXISTING EMERGENCY VEHICLE LIGHT DETECTORS, CONFIRMATION BEACONS AND LIGHT DETECTOR AMPLIFIER SHALL BE RELOCATED TO PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION.

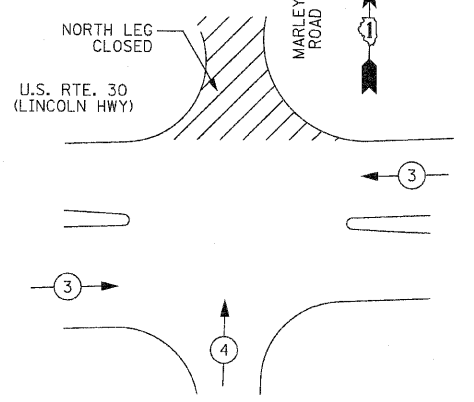
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL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



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

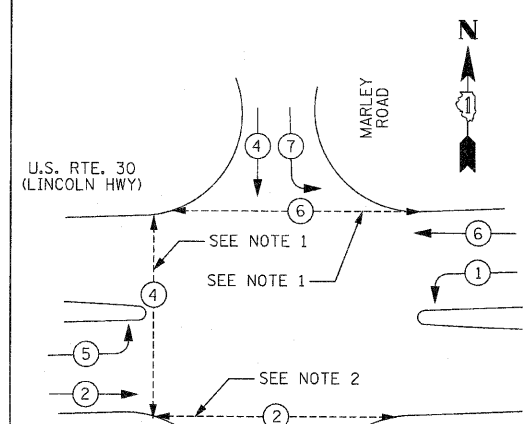


**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
EXISTING CONDITION, PRE-STAGE 1, STAGE 1, PRE-STAGE 2, STAGE 2, STAGE 3 & STAGE 4



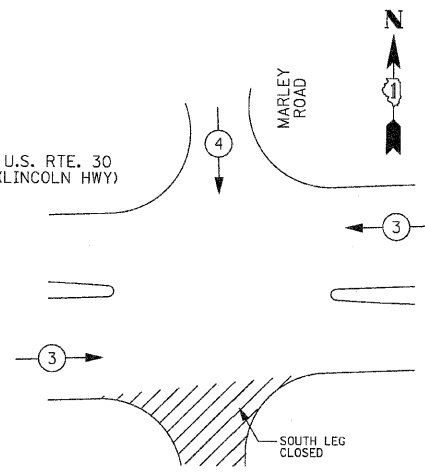
**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
STAGE 1 DETOUR & STAGE 2 DETOUR

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



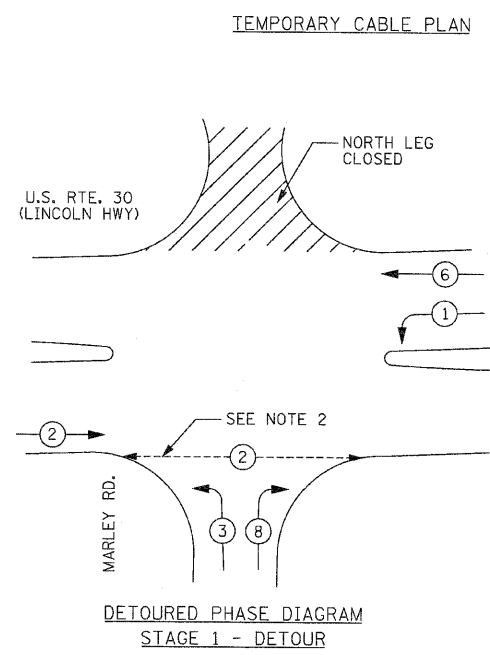
- LEGEND**
- ⊙ DUAL ENTRY PHASE
  - ⊙ SINGLE ENTRY PHASE
  - ◇ OL OVERLAP
  - ⊙ PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

**TEMPORARY PHASE DESIGNATION DIAGRAM**  
EXISTING CONDITION, PRE-STAGE 1, STAGE 1, PRE-STAGE 2, STAGE 2, STAGE 3 & STAGE 4

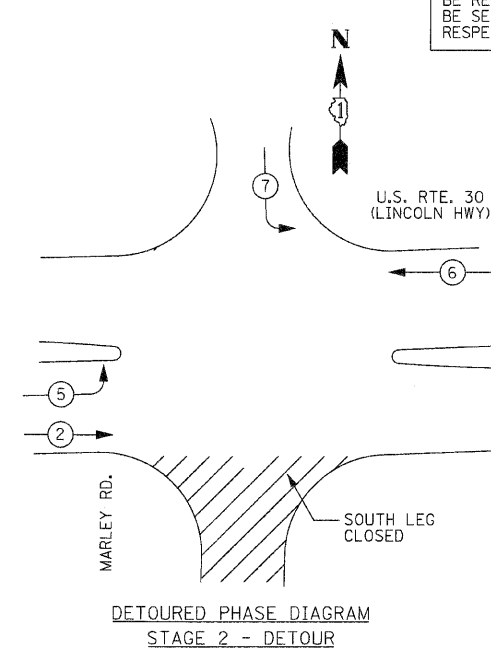


**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
STAGE 1 DETOUR & STAGE 2 DETOUR

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



**DETOURED PHASE DIAGRAM**  
STAGE 1 - DETOUR



**DETOURED PHASE DIAGRAM**  
STAGE 2 - DETOUR

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	% OPERATION	
SIGNAL (RED)	12	17	0.50	102	
(YELLOW)	12	25	0.25	75	
(GREEN)	12	15	0.25	45	
ARROW	16	12	0.10	19.2	
PED. SIGNAL	6	25	1.00	150	
CONTROLLER	1	100	1.00	100	
ILLUM. SIGN	0	25	0.05	-	
VIDEO SYSTEM	1	150	-	150	
FLASHER	0	-	0.50	-	
ENERGY COSTS TO: TOTAL = 641.2					
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096 ENERGY SUPPLY CONTACT: MR. HARRY JONES PHONE: (815) 724-5057 COMPANY: COM. ED.					

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, TEMPORARY EMERGENCY VEHICLE PREEMPTION
NAME	DATE	
		US RTE. 30 AT MARLEY ROAD SCALE: 1" = NTS DATE: 10/12/2010 DRAWN BY: RG DESIGNED BY: GB CHECKED BY: ZH

**CONSTRUCTION NOTES:**

- ① ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
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- ④ TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT FROM WASHINGTON ST. TO JOLIET HWY. IS INSTALLED AND OPERATIONAL.
- ⑤ PUSHBUTTONS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ⑥ THE PEDESTRIAN CROSS WALKS SHALL BE COORDINATED WITH THE HIGH SCHOOL DURING ALL STAGES OF CONSTRUCTION.

**REMOVAL NOTES**

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

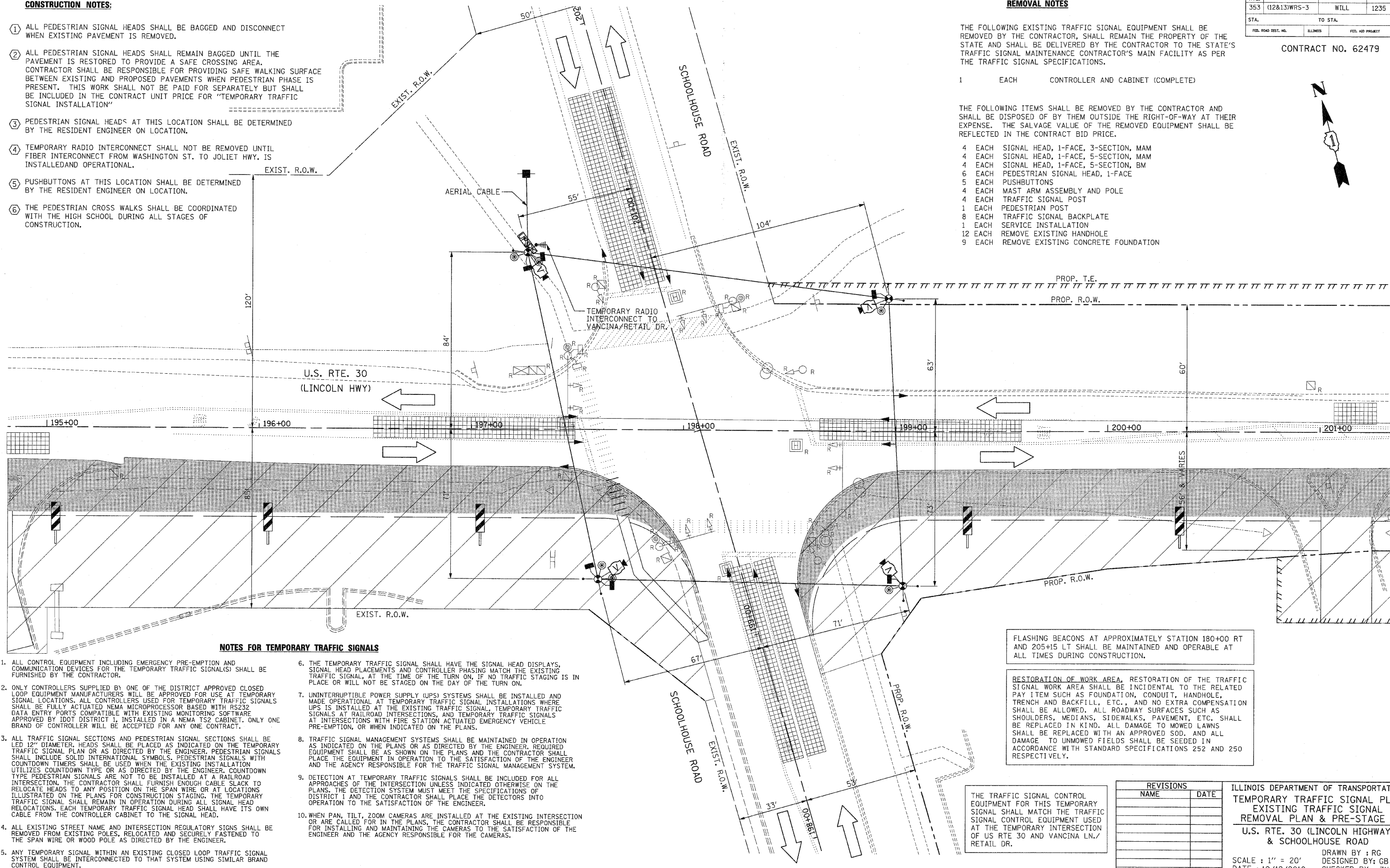
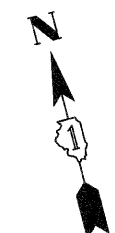
- 1 EACH CONTROLLER AND CABINET (COMPLETED)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION, MAM
- 4 EACH SIGNAL HEAD, 1-FACE, 5-SECTION, MAM
- 4 EACH SIGNAL HEAD, 1-FACE, 5-SECTION, BM
- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 5 EACH PUSHBUTTONS
- 4 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 1 EACH PEDESTRIAN POST
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION
- 12 EACH REMOVE EXISTING HANDHOLE
- 9 EACH REMOVE EXISTING CONCRETE FOUNDATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	538
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
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FLASHING BEACONS AT APPROXIMATELY STATION 180+00 RT AND 205+15 LT SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.

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

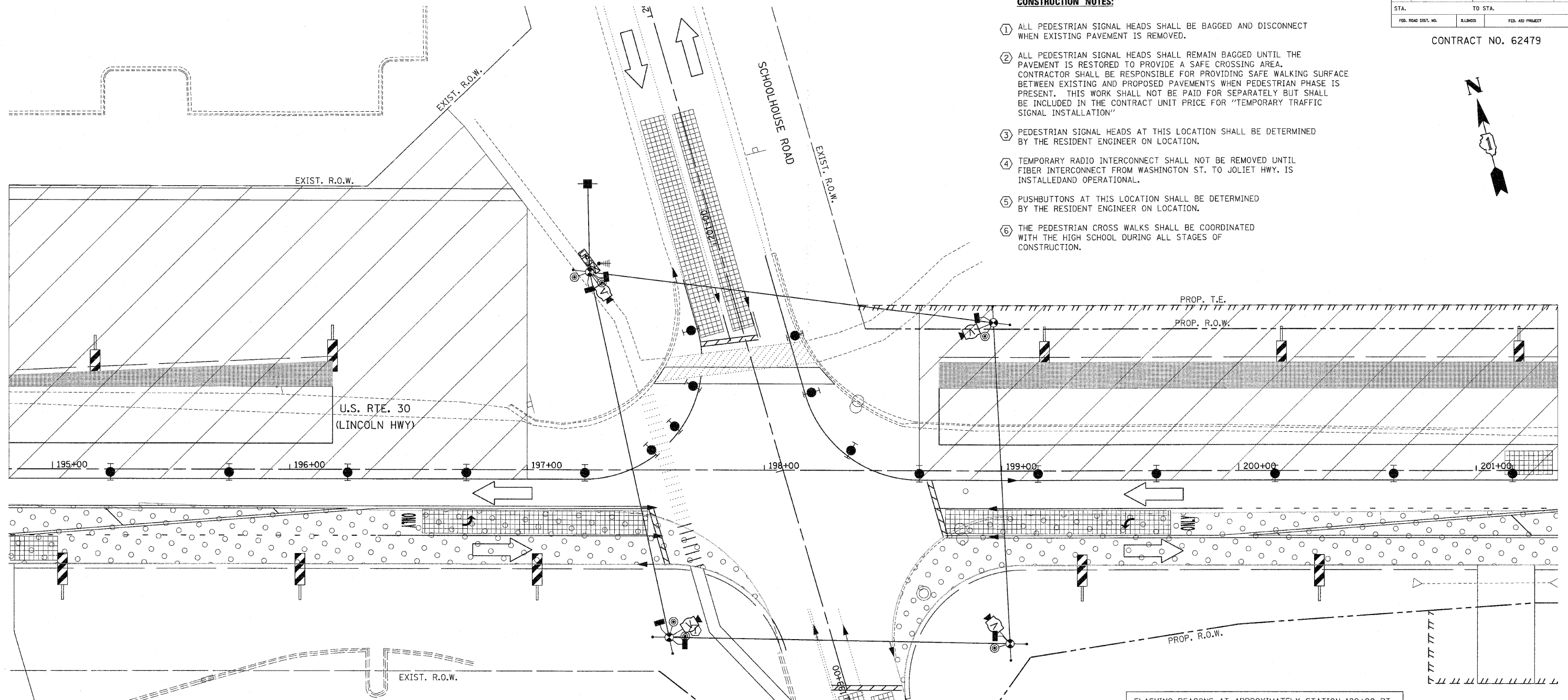
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL MATCH THE TRAFFIC SIGNAL CONTROL EQUIPMENT USED AT THE TEMPORARY INTERSECTION OF US RTE 30 AND VANCINA LN./ RETAIL DR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
**EXISTING TRAFFIC SIGNAL**  
**REMOVAL PLAN & PRE-STAGE 1**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
**& SCHOOLHOUSE ROAD**  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

**CONSTRUCTION NOTES:**

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- 2 ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
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- 6 THE PEDESTRIAN CROSS WALKS SHALL BE COORDINATED WITH THE HIGH SCHOOL DURING ALL STAGES OF CONSTRUCTION.



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

FLASHING BEACONS AT APPROXIMATELY STATION 180+00 RT AND 205+15 LT SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL MATCH THE TRAFFIC SIGNAL CONTROL EQUIPMENT USED AT THE TEMPORARY INTERSECTION OF US RTE 30 AND VANCINA LN./ RETAIL DR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
 STAGE 1  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & SCHOOLHOUSE ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH



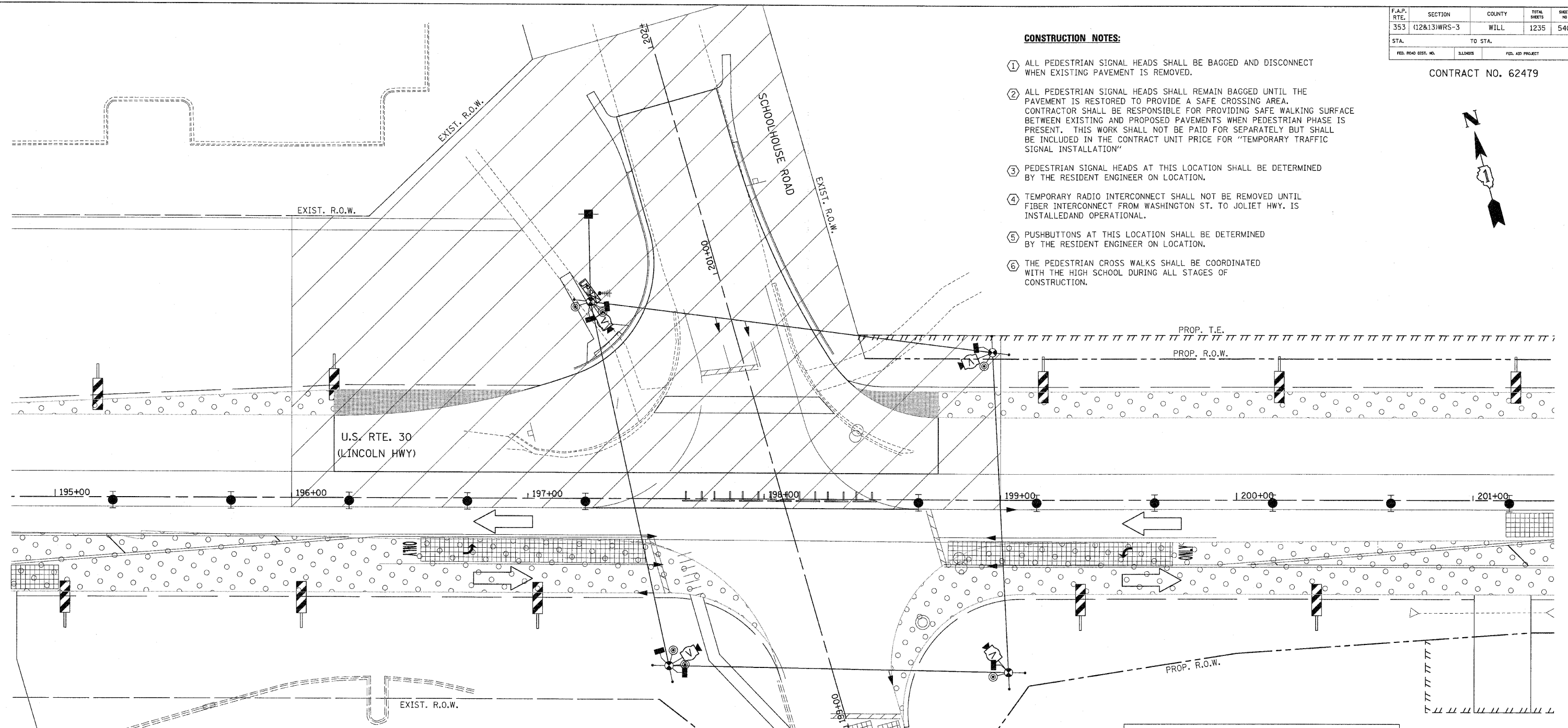
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	540
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



**CONSTRUCTION NOTES:**

- ① ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ④ TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT FROM WASHINGTON ST. TO JOLIET HWY. IS INSTALLED AND OPERATIONAL.
- ⑤ PUSHBUTTONS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ⑥ THE PEDESTRIAN CROSS WALKS SHALL BE COORDINATED WITH THE HIGH SCHOOL DURING ALL STAGES OF CONSTRUCTION.



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
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4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
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FLASHING BEACONS AT APPROXIMATELY STATION 180+00 RT AND 205+15 LT SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL MATCH THE TRAFFIC SIGNAL CONTROL EQUIPMENT USED AT THE TEMPORARY INTERSECTION OF US RTE 30 AND VANCINA LN./ RETAIL DR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 1A - NORTH LEG DETOURED  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & SCHOOLHOUSE ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

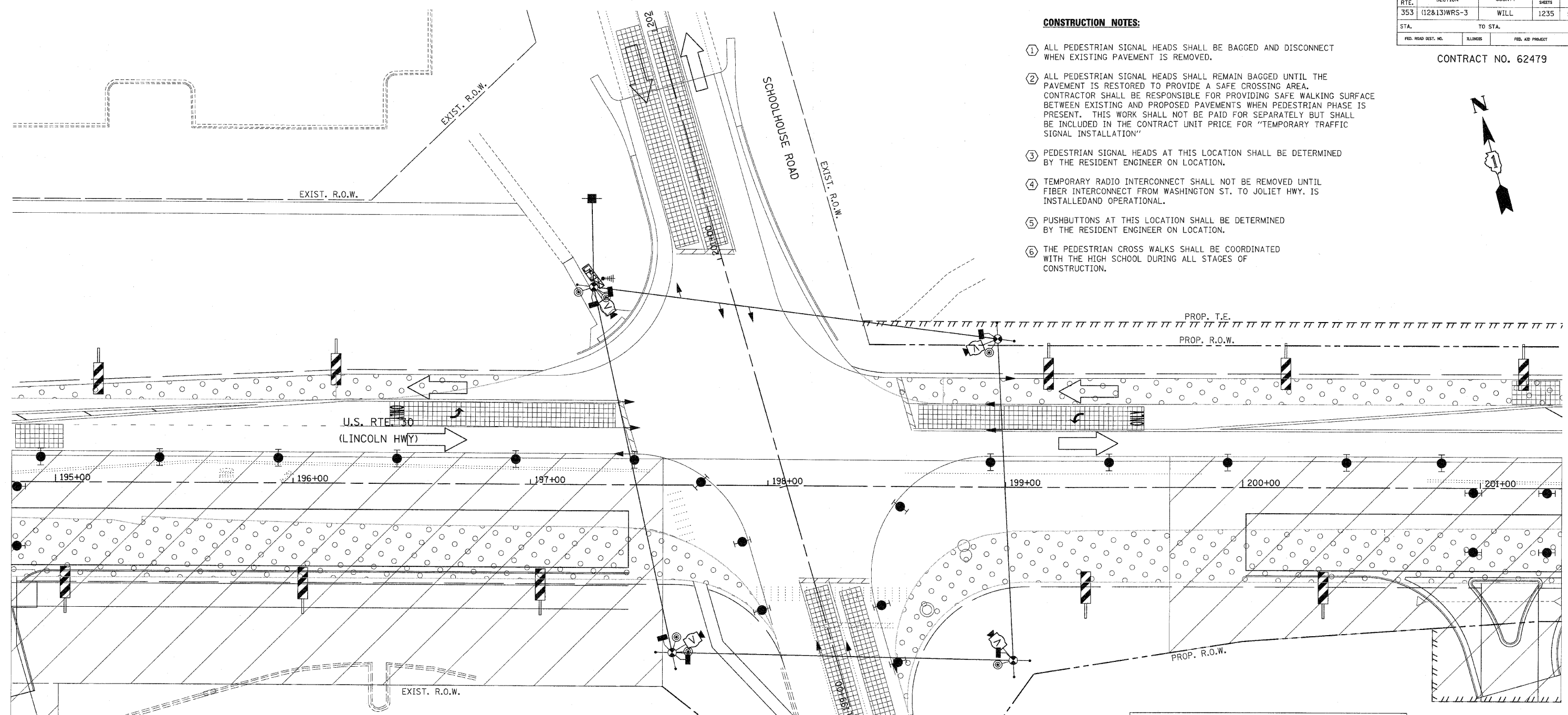
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL.	1235	541
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



**CONSTRUCTION NOTES:**

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- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
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- ⑤ PUSHBUTTONS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
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**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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FLASHING BEACONS AT APPROXIMATELY STATION 180+00 RT AND 205+15 LT SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL MATCH THE TRAFFIC SIGNAL CONTROL EQUIPMENT USED AT THE TEMPORARY INTERSECTION OF US RTE 30 AND VANCINA LN./ RETAIL DR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
 PRE - STAGE 2 & STAGE 2  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & SCHOOLHOUSE ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH

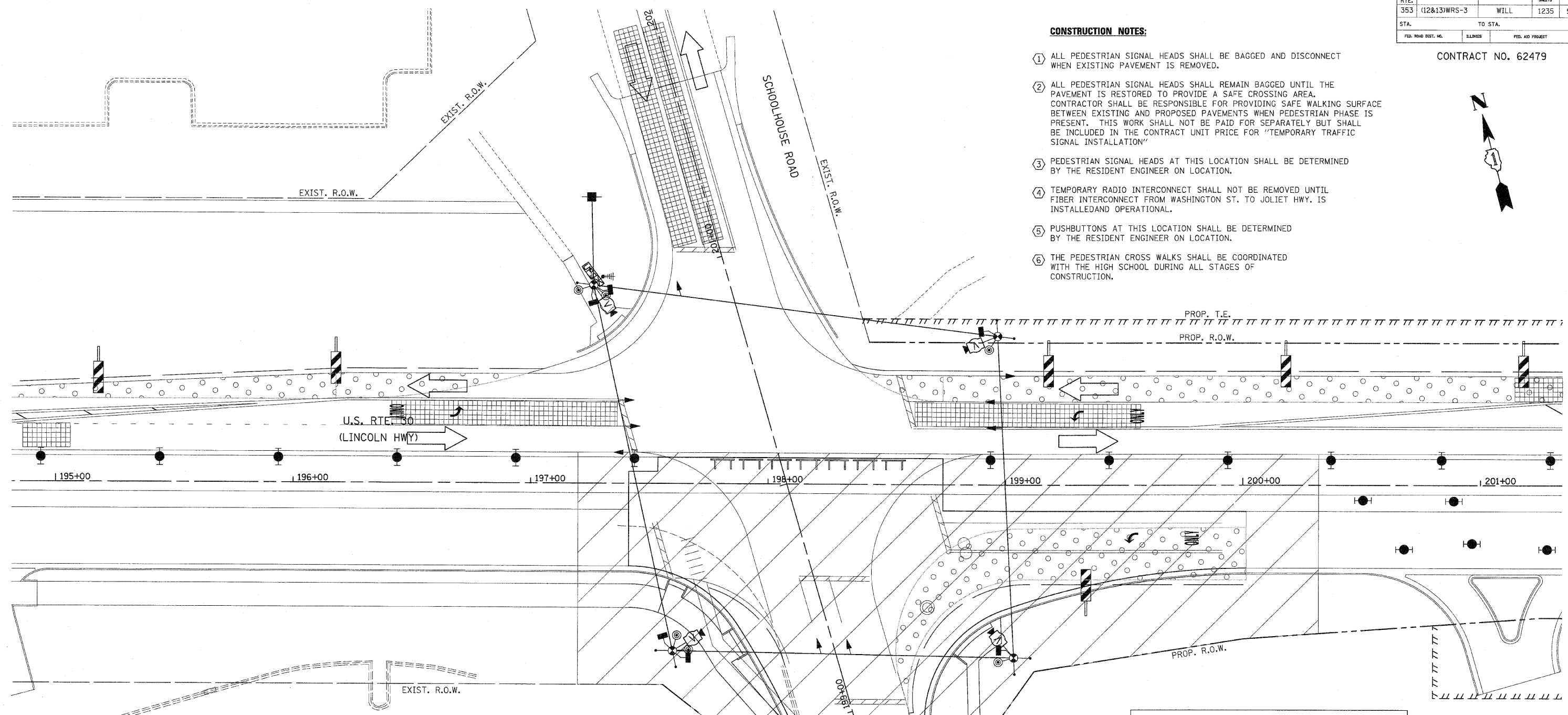
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	542
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



**CONSTRUCTION NOTES:**

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- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
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- ⑤ PUSHBUTTONS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
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THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL MATCH THE TRAFFIC SIGNAL CONTROL EQUIPMENT USED AT THE TEMPORARY INTERSECTION OF US RTE 30 AND VANCINA LN./ RETAIL DR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 2A - SOUTH LEG DETOURED  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & SCHOOLHOUSE ROAD  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH  
 SCALE : 1" = 20'  
 DATE : 10/12/2010

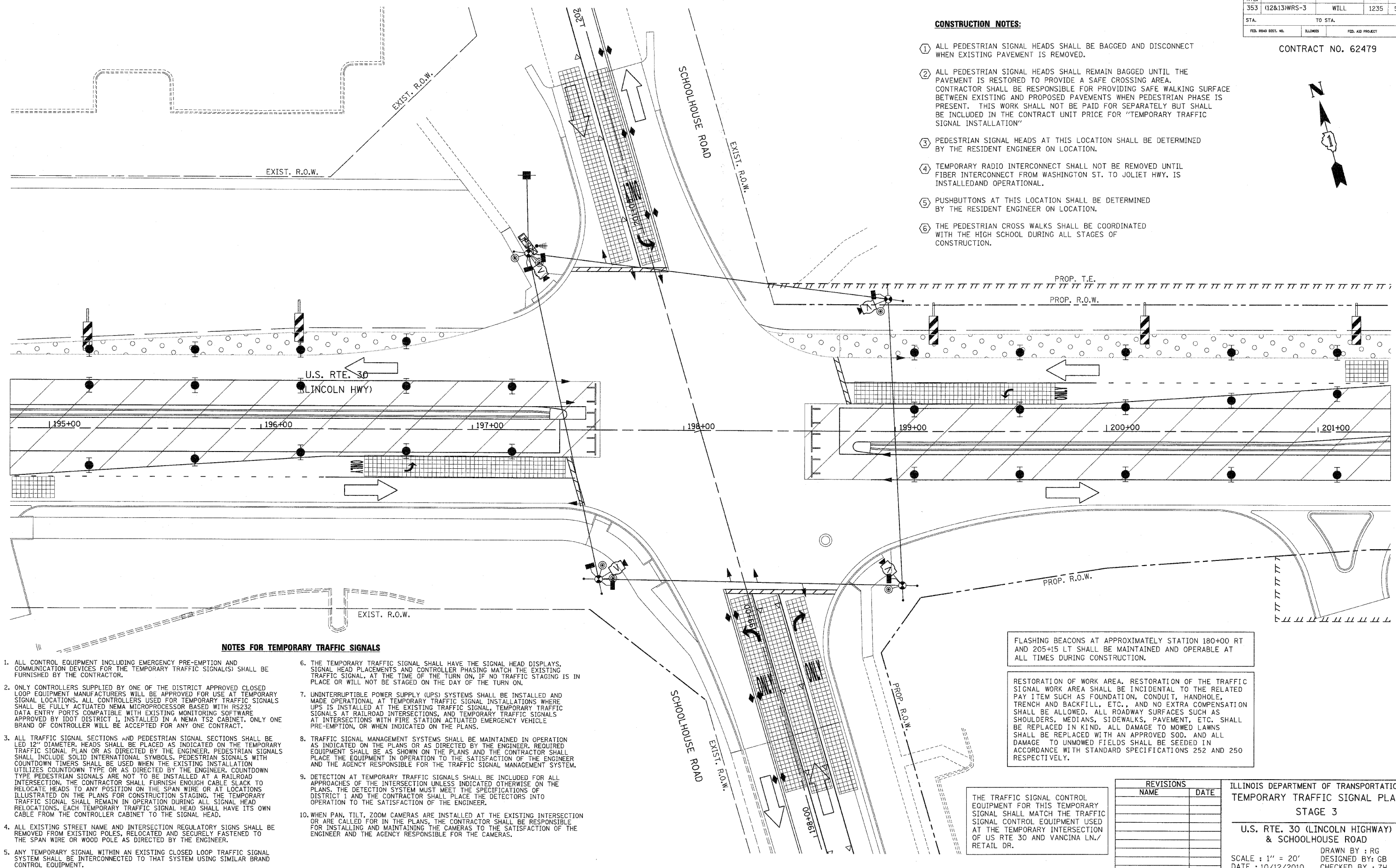
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	543
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



**CONSTRUCTION NOTES:**

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- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
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**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

FLASHING BEACONS AT APPROXIMATELY STATION 180+00 RT AND 205+15 LT SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL MATCH THE TRAFFIC SIGNAL CONTROL EQUIPMENT USED AT THE TEMPORARY INTERSECTION OF US RTE 30 AND VANCINA LN./ RETAIL DR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
**STAGE 3**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
**& SCHOOLHOUSE ROAD**  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH

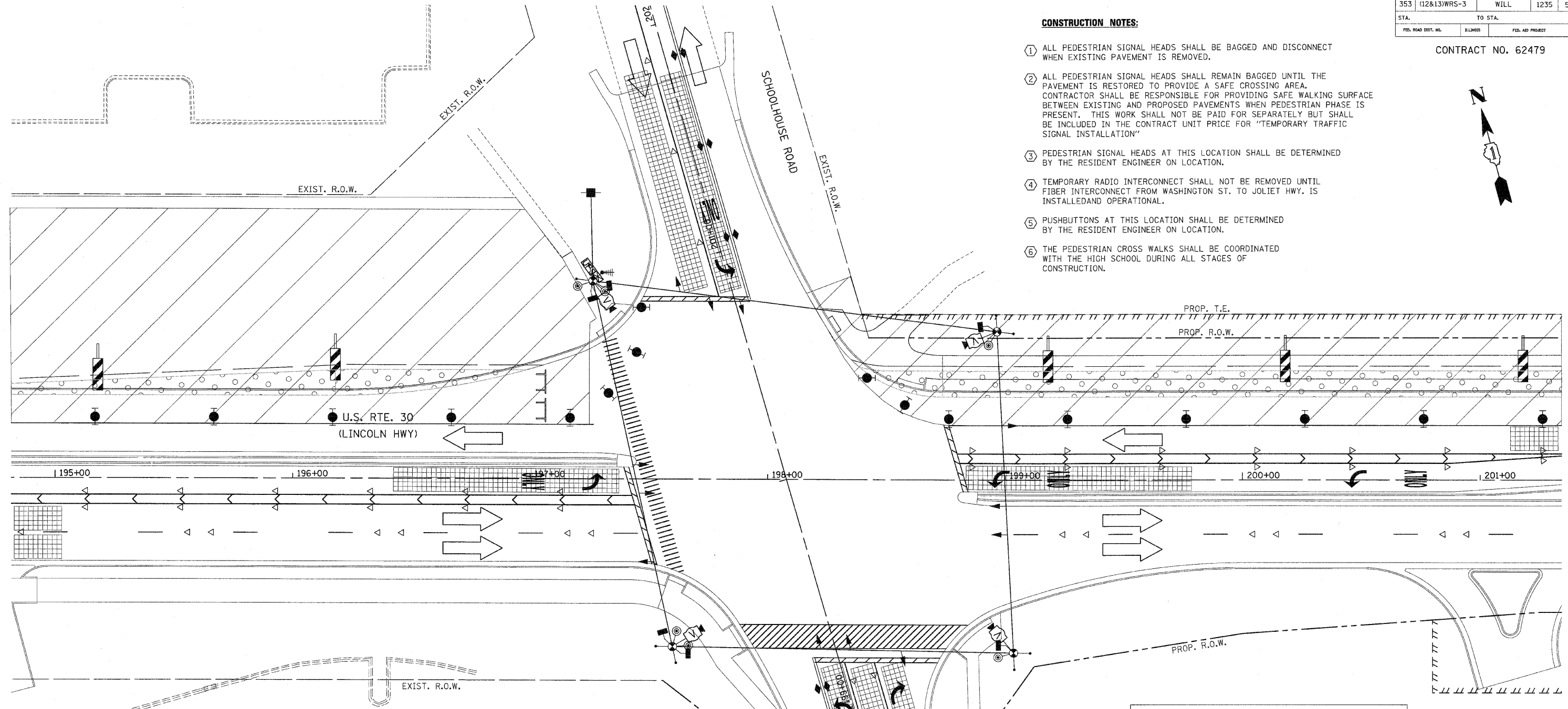
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	544
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



**CONSTRUCTION NOTES:**

- ① ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ④ TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT FROM WASHINGTON ST. TO JOLIET HWY. IS INSTALLED AND OPERATIONAL.
- ⑤ PUSHBUTTONS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ⑥ THE PEDESTRIAN CROSS WALKS SHALL BE COORDINATED WITH THE HIGH SCHOOL DURING ALL STAGES OF CONSTRUCTION.



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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REVISIONS	
NAME	DATE

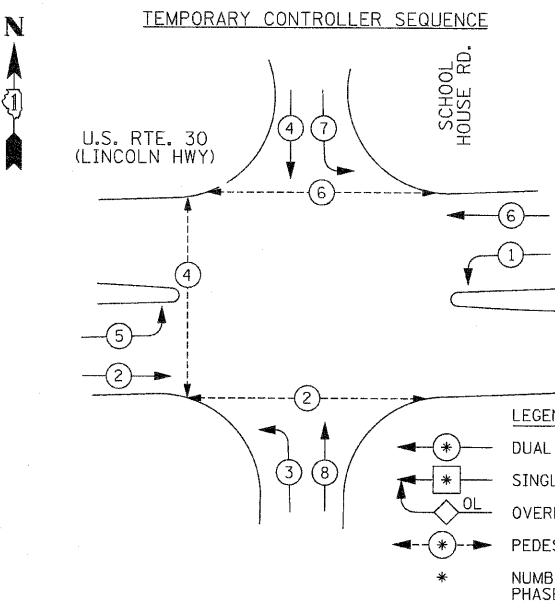
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
 STAGE 4  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & SCHOOLHOUSE ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL.	1235	545
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

**CONSTRUCTION NOTES:**

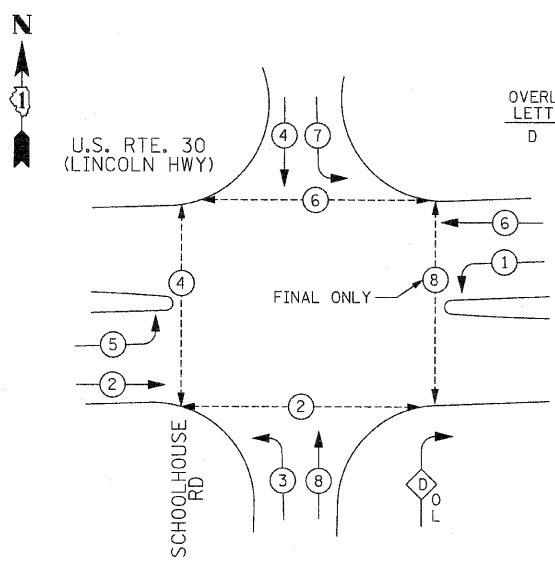
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- ⑦ THE ENTIRE SIGNAL HEAD TO BE BAGGED AND DISCONNECTED DURING STAGE 1A UNLESS SPECIFIC LENS ARE INDICATED TO BE BAGGED.  
THE ENTIRE SIGNAL HEAD TO BE BAGGED AND DURING STAGE 2A DISCONNECTED UNLESS SPECIFIC LENS ARE INDICATED TO BE BAGGED.
- ⑧ ARROW SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED EXCEPT FOR STAGE 3, STAGE 4 AND FINAL CONDITION.
- ⑩ SIGNAL HEAD ONLY TO BE USED DURING STAGE 3, STAGE 4 AND FINAL CONDITION.



**LEGEND**

- ⊕ DUAL ENTRY PHASE
- ⊙ SINGLE ENTRY PHASE
- OL OVERLAP
- ⊖ PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

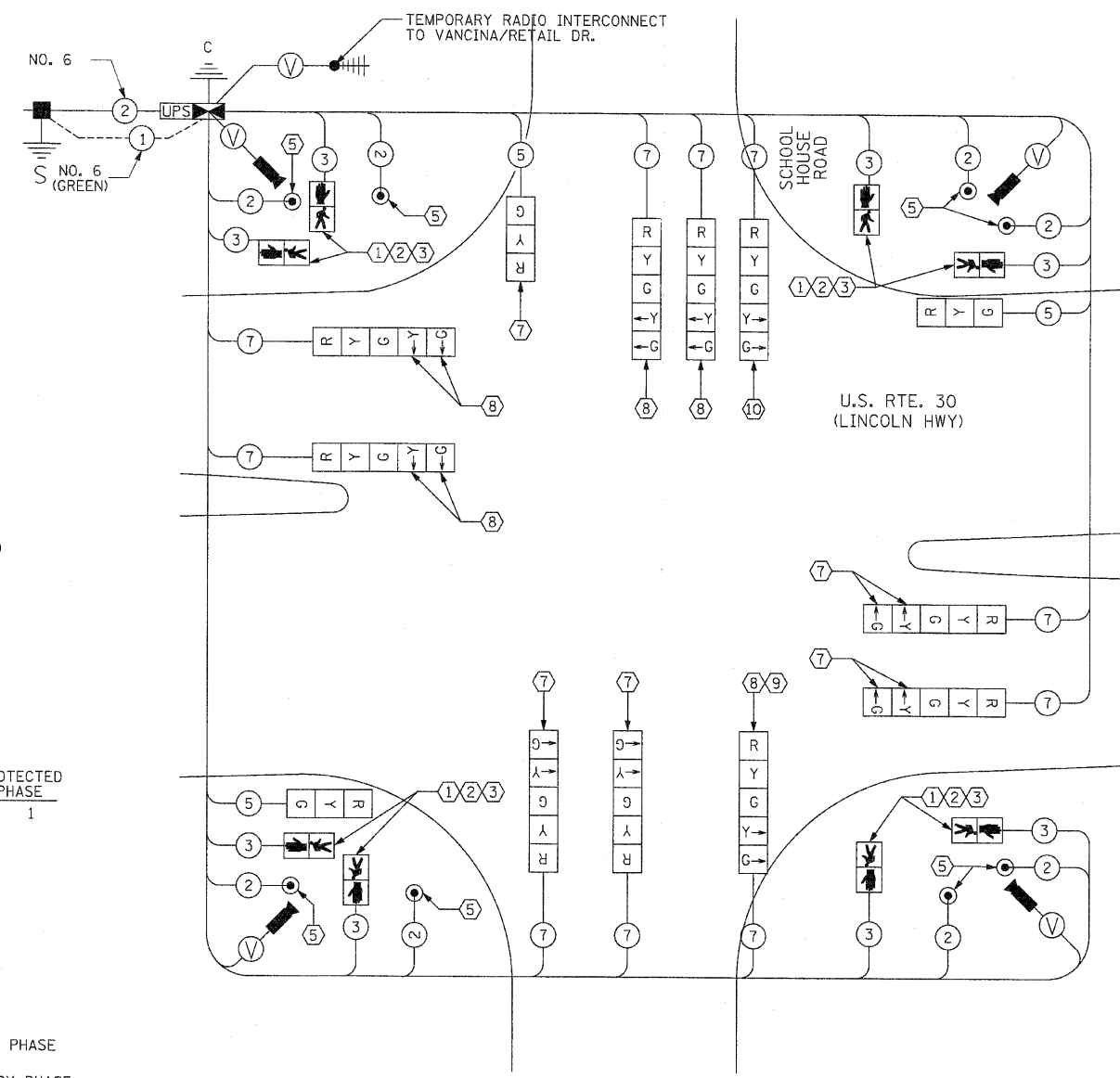
**TEMPORARY PHASE DESIGNATION DIAGRAM**  
EXISTING, PRESTAGE 1, STAGE 1, PRESTAGE 2 AND STAGE 2



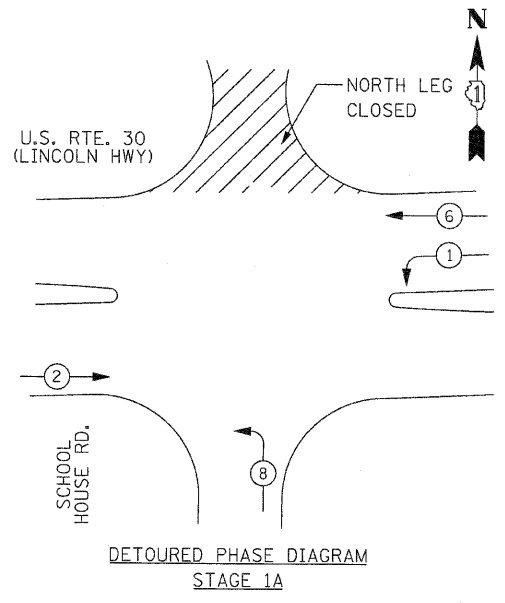
**LEGEND**

- ⊕ DUAL ENTRY PHASE
- ⊙ SINGLE ENTRY PHASE
- OL OVERLAP
- ⊖ PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

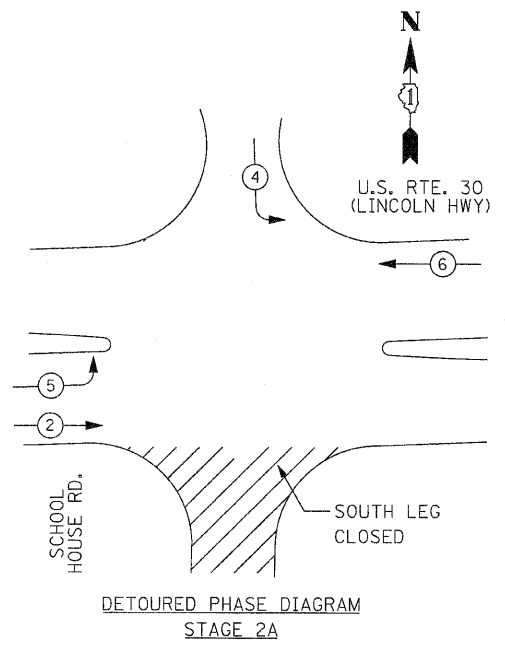
OVERLAP LETTER D = PERMISSIVE PHASE 8 + PROTECTED PHASE 1



**TEMPORARY CABLE PLAN**



**DETOURED PHASE DIAGRAM**  
STAGE 1A



**DETOURED PHASE DIAGRAM**  
STAGE 2A

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	% OPERATION	
SIGNAL (RED)	12	-	17	0.50	102.00
(YELLOW)	12	-	25	0.25	75.00
(GREEN)	12	-	15	0.25	45.00
ARROW	16	-	12	0.10	19.20
PED. SIGNAL	6	-	25	1.00	150.00
CONTROLLER	1	-	100	1.00	100.00
ILLUM. SIGN	0	-	-	0.05	-
VIDEO SYSTEM	1	-	150	-	150
FLASHER	0	-	-	0.50	0
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096 CONTACT: MR. HARRY JONES PHONE: (815) 724-5057 COMPANY: COM. ED.					TOTAL = 641.2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CABLE PLAN,  
TEMPORARY PHASE DESIGNATION  
DIAGRAM, TEMPORARY EMERGENCY  
VEHICLE PREEMPTION**

**US RTE. 30 AT SCHOOL HOUSE ROAD**

SCALE : 1" = NTS  
DATE : 10/12/2010

DRAWN BY : RG  
DESIGNED BY : GB  
CHECKED BY : ZH

F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	546
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

**REMOVAL NOTES**

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

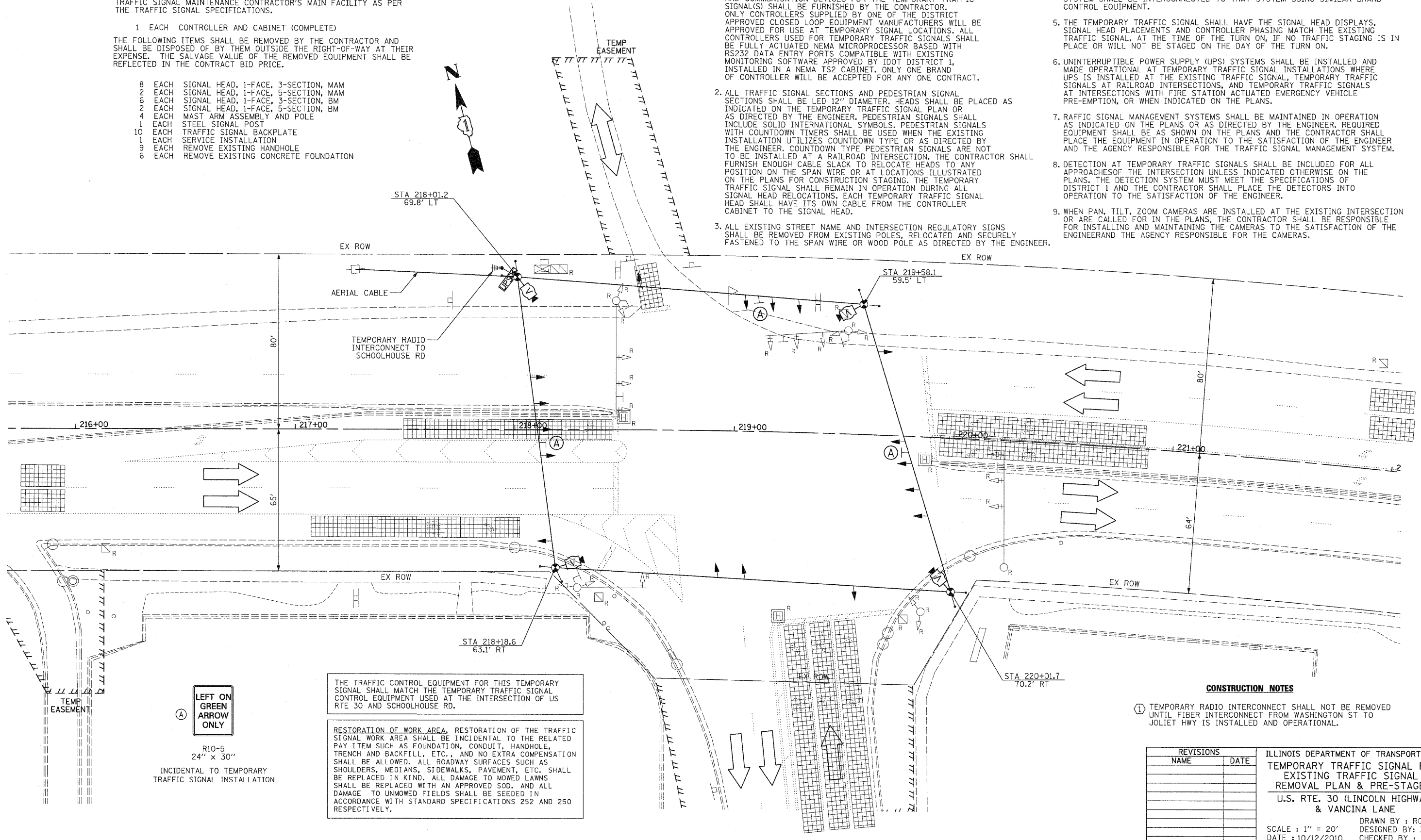
- 1 EACH CONTROLLER AND CABINET (COMPLETE)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION, MAM
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION, MAM
- 6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION, BM
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION, BM
- 4 EACH MAST ARM ASSEMBLY AND POLE
- 1 EACH STEEL SIGNAL POST
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION
- 9 EACH REMOVE EXISTING HANDHOLE
- 6 EACH REMOVE EXISTING CONCRETE FOUNDATION

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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LEFT ON GREEN ARROW ONLY

R10-5  
24" x 30"  
INCIDENTAL TO TEMPORARY TRAFFIC SIGNAL INSTALLATION

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**CONSTRUCTION NOTES**

- ① TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT FROM WASHINGTON ST TO JOLIET HWY IS INSTALLED AND OPERATIONAL.

REVISIONS	
NAME	DATE

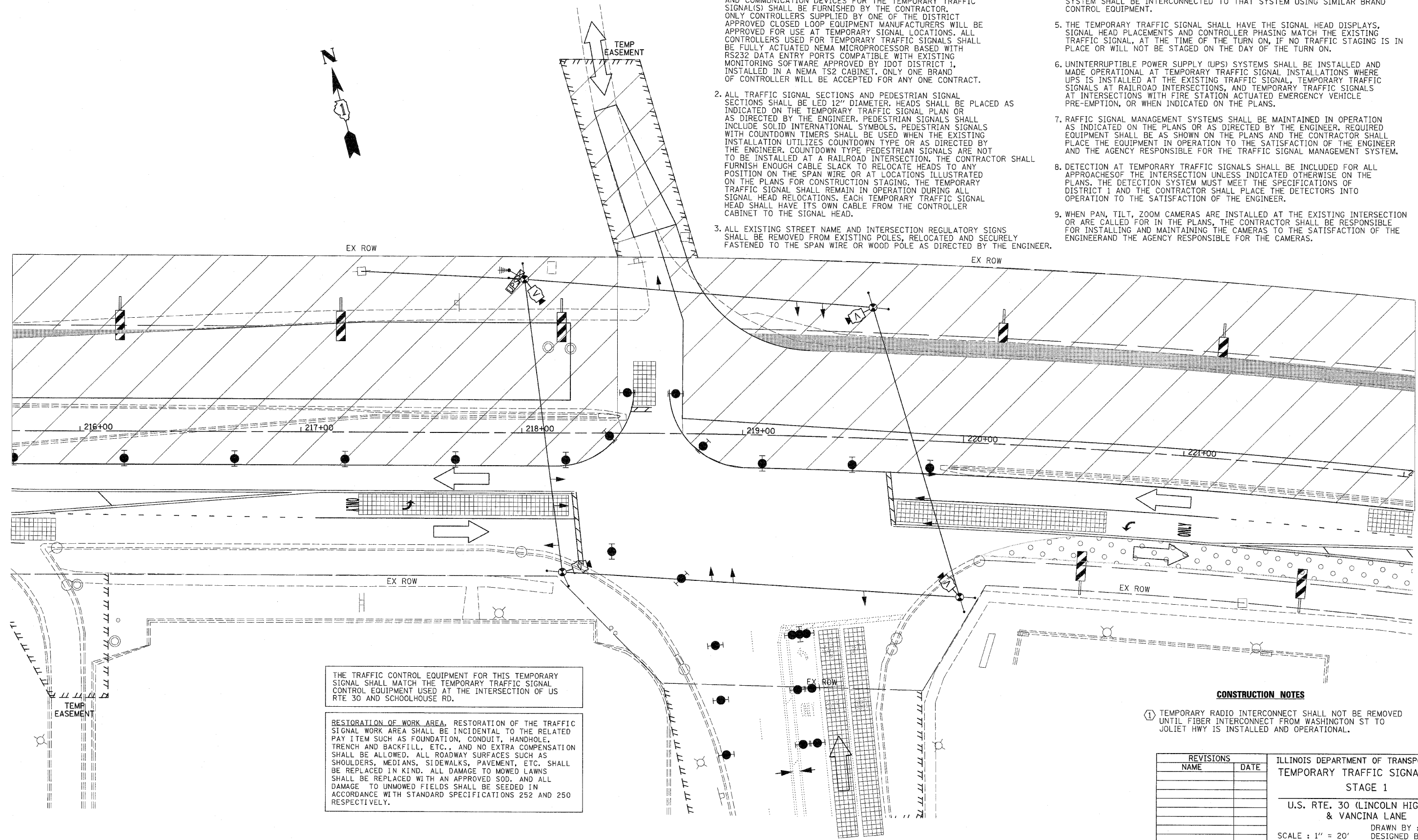
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 EXISTING TRAFFIC SIGNAL  
 REMOVAL PLAN & PRE-STAGE 1  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & VANCINA LANE  
 DRAWN BY : RG  
 DESIGNED BY: ZH  
 CHECKED BY : GB  
 SCALE : 1" = 20'  
 DATE : 10/12/2010

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

CONTRACT NO. 62479

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5. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
6. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
7. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
8. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
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**RESTORATION OF WORK AREA.** RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**CONSTRUCTION NOTES**

1. TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT FROM WASHINGTON ST TO JOLIET HWY IS INSTALLED AND OPERATIONAL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
 STAGE 1  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & VANCINA LANE  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY: ZH  
 CHECKED BY : GB

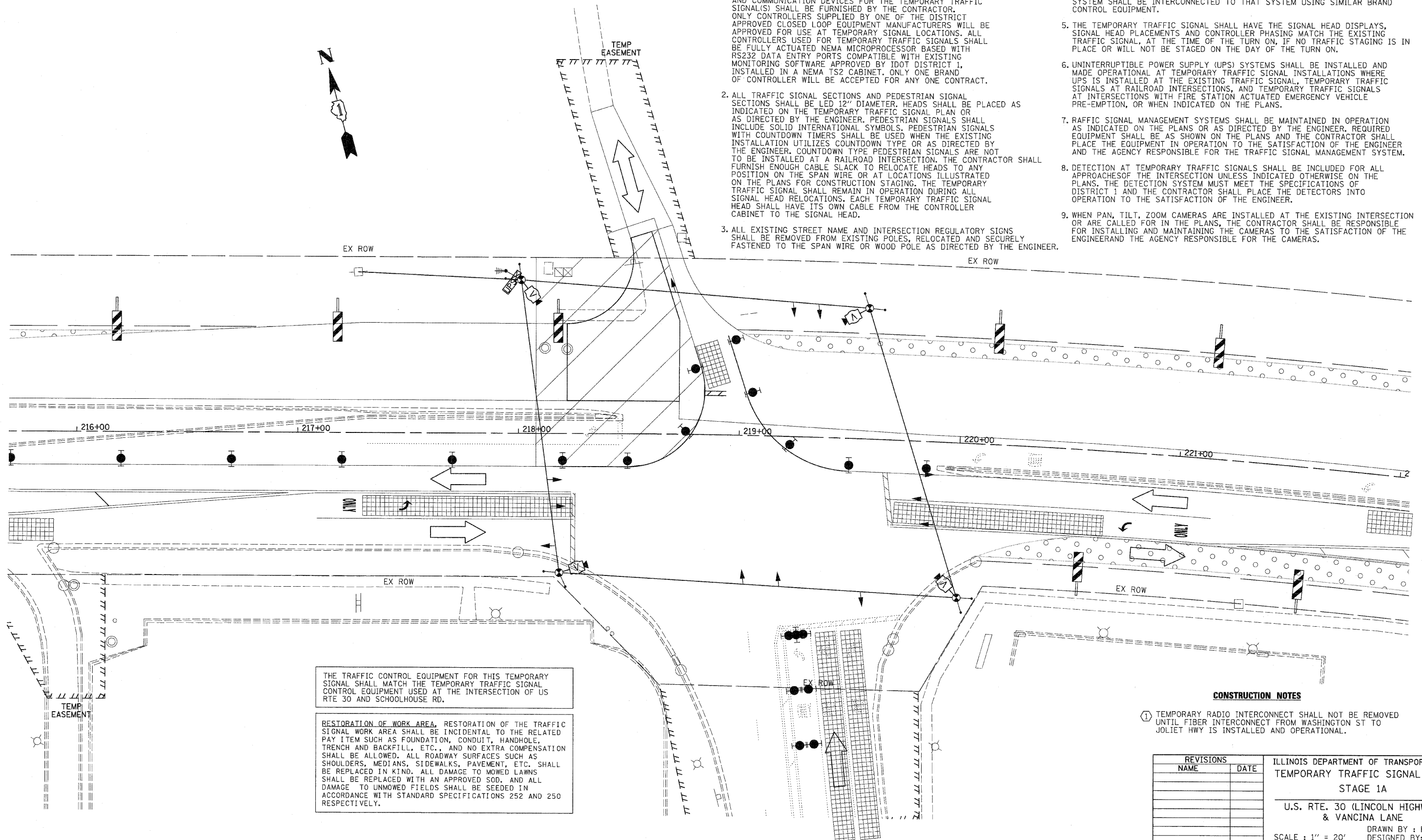


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	548
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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**CONSTRUCTION NOTES**

- TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT FROM WASHINGTON ST TO JOLIET HWY IS INSTALLED AND OPERATIONAL.

REVISIONS	
NAME	DATE

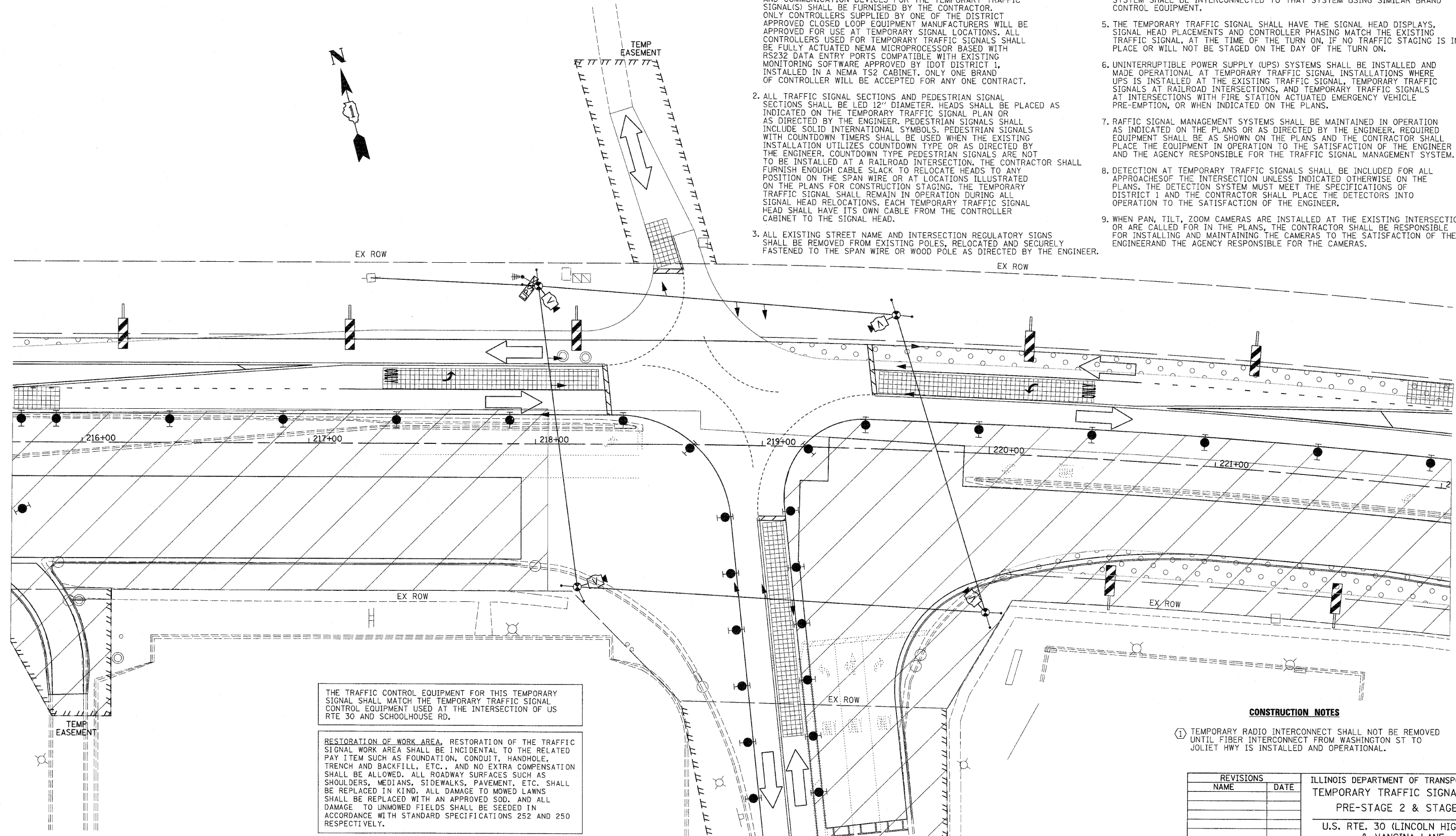
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 1A  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & VANCINA LANE  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RC  
 DESIGNED BY: ZH  
 CHECKED BY: GB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	549
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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**CONSTRUCTION NOTES**

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REVISIONS	
NAME	DATE

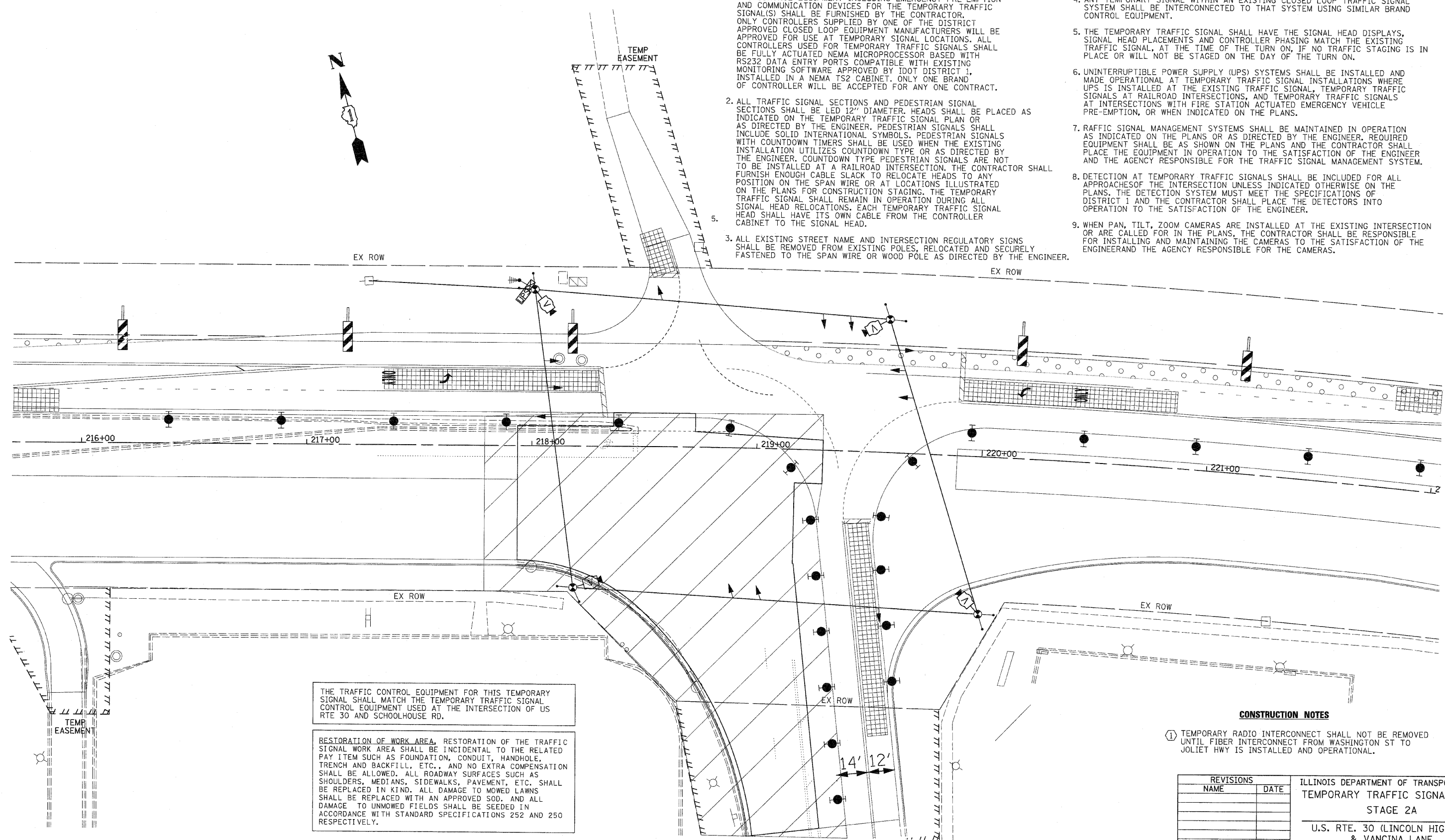
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 PRE-STAGE 2 & STAGE 2  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & VANCINA LANE  
 DRAWN BY : RC  
 DESIGNED BY: ZH  
 CHECKED BY : GB  
 SCALE : 1" = 20'  
 DATE : 10/12/2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	551
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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CONTRACT NO. 62479



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**CONSTRUCTION NOTES**

① TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT FROM WASHINGTON ST TO JOLIET HWY IS INSTALLED AND OPERATIONAL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
 STAGE 2A

U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & VANCINA LANE

SCALE : 1" = 20'  
 DATE : 10/12/2010

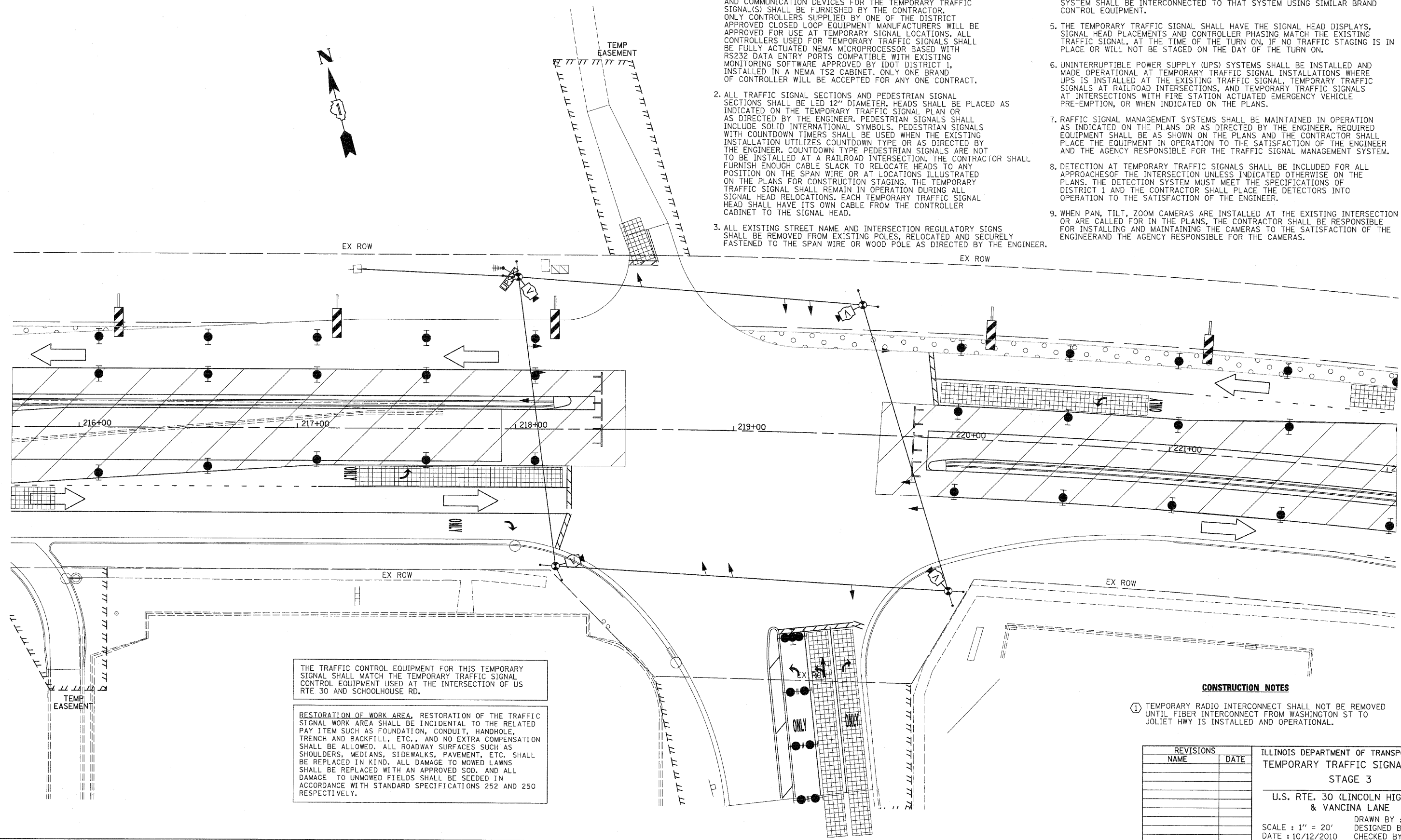
DRAWN BY : RG  
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL.	1235	552
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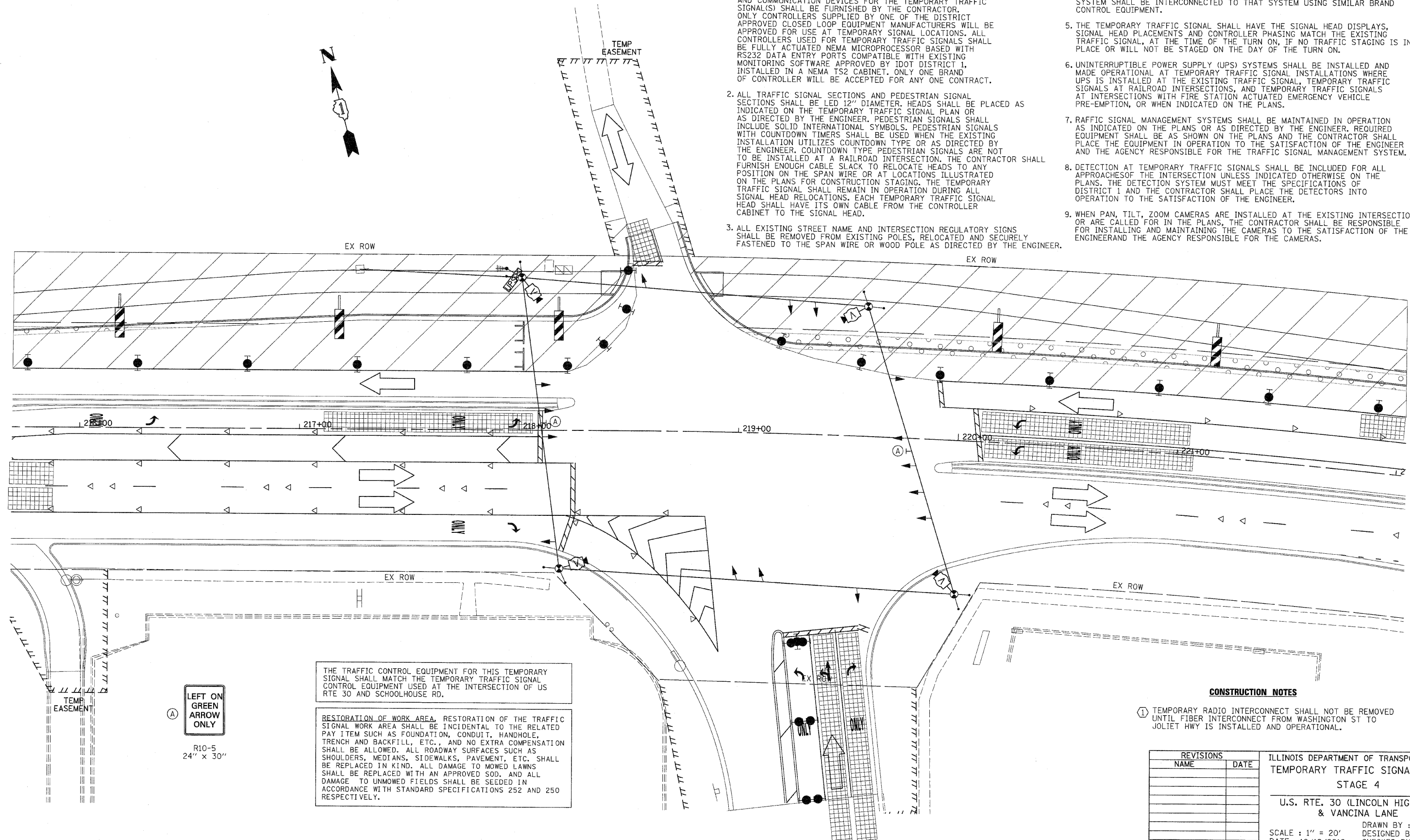
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
 STAGE 3  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
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 SCALE : 1" = 20'  
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**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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2. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
3. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
4. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
5. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
6. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
7. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
8. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
9. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

CONTRACT NO. 62479



(A) LEFT ON GREEN ARROW ONLY

R10-5  
24" x 30"

THE TRAFFIC CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL MATCH THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT USED AT THE INTERSECTION OF US RTE 30 AND SCHOOLHOUSE RD.

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

**CONSTRUCTION NOTES**

- (1) TEMPORARY RADIO INTERCONNECT SHALL NOT BE REMOVED UNTIL FIBER INTERCONNECT FROM WASHINGTON ST TO JOLIET HWY IS INSTALLED AND OPERATIONAL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
 STAGE 4  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & VINCINA LANE  
 DRAWN BY : RG  
 DESIGNED BY: ZH  
 DATE : 10/12/2010  
 CHECKED BY: GB





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	555
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

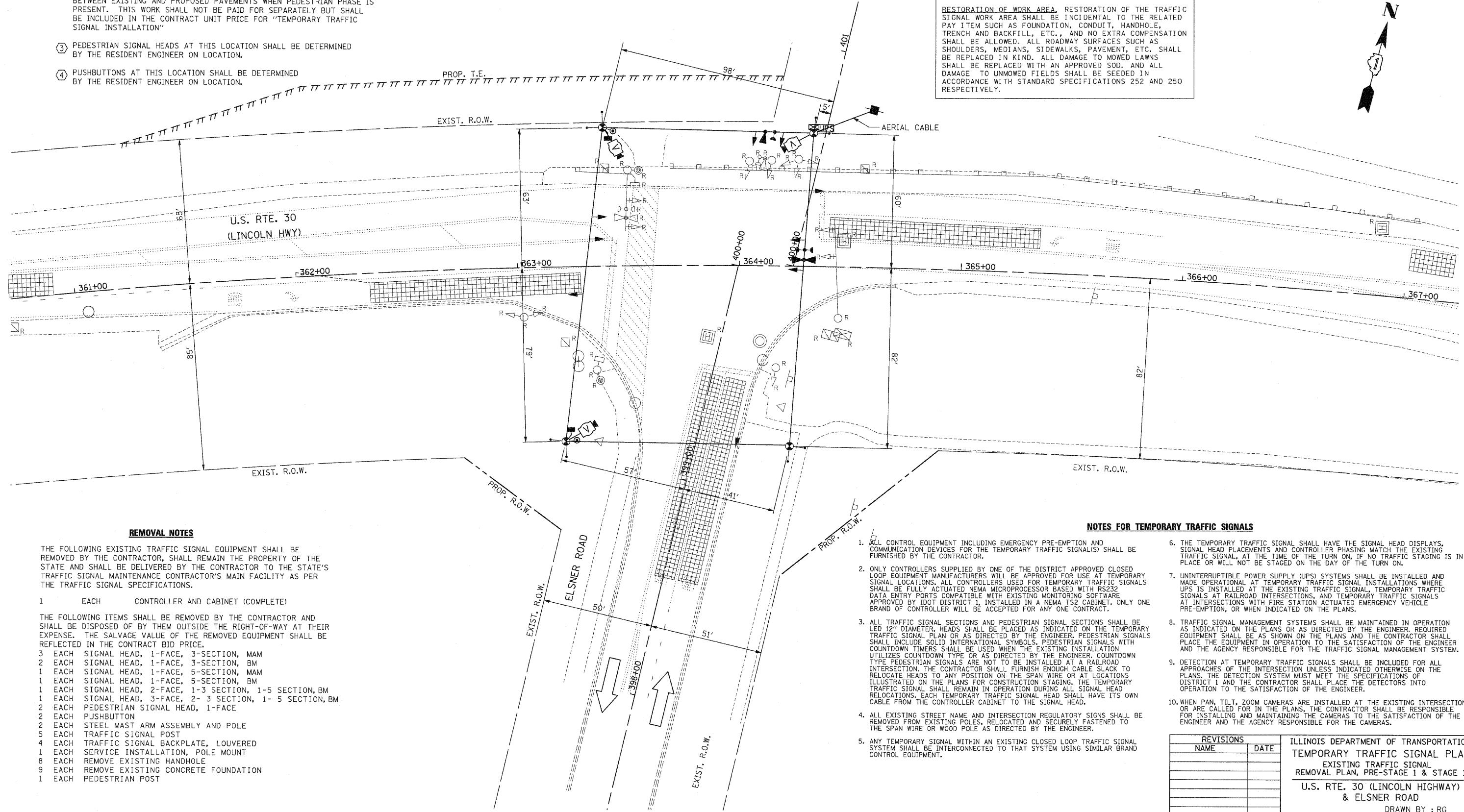


**CONSTRUCTION NOTES:**

- ① ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ④ PUSHBUTTONS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.

EXISTING EMERGENCY VEHICLE LIGHT DETECTORS, CONFIRMATION BEACONS AND LIGHT DETECTOR AMPLIFIER SHALL BE RELOCATED TO PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION. STORE EXISTING EQUIPMENT DIRECTED BY ENGINEER UNTIL NEW SIGNALS ARE TO BE INSTALLED.

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



**REMOVAL NOTES**

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

- |   |      |                                   |
|---|------|-----------------------------------|
| 1 | EACH | CONTROLLER AND CABINET (COMPLETE) |
|---|------|-----------------------------------|
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- |   |      |   |
|---|------|---|
| 3 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION, MAM               |
| 2 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION, BM                |
| 1 | EACH | SIGNAL HEAD, 1-FACE, 5-SECTION, MAM               |
| 1 | EACH | SIGNAL HEAD, 1-FACE, 5-SECTION, BM                |
| 1 | EACH | SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BM |
| 1 | EACH | SIGNAL HEAD, 3-FACE, 2-3 SECTION, 1-5 SECTION, BM |
| 2 | EACH | PEDESTRIAN SIGNAL HEAD, 1-FACE                    |
| 2 | EACH | PUSHBUTTON  |
| 2 | EACH | STEEL MAST ARM ASSEMBLY AND POLE                  |
| 5 | EACH | TRAFFIC SIGNAL POST                               |
| 4 | EACH | TRAFFIC SIGNAL BACKPLATE, LOUVERED                |
| 1 | EACH | SERVICE INSTALLATION, POLE MOUNT                  |
| 8 | EACH | REMOVE EXISTING HANDHOLE                          |
| 9 | EACH | REMOVE EXISTING CONCRETE FOUNDATION               |
| 1 | EACH | PEDESTRIAN POST                                   |

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
 EXISTING TRAFFIC SIGNAL  
 REMOVAL PLAN, PRE-STAGE 1 & STAGE 1  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & ELSNER ROAD

SCALE : 1" = 20'  
 DATE : 10/12/2010

DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH



F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	557
STA.	TO STA.			
FED. ROAD DIST. NO.	BLISS	FED. AID PROJECT		

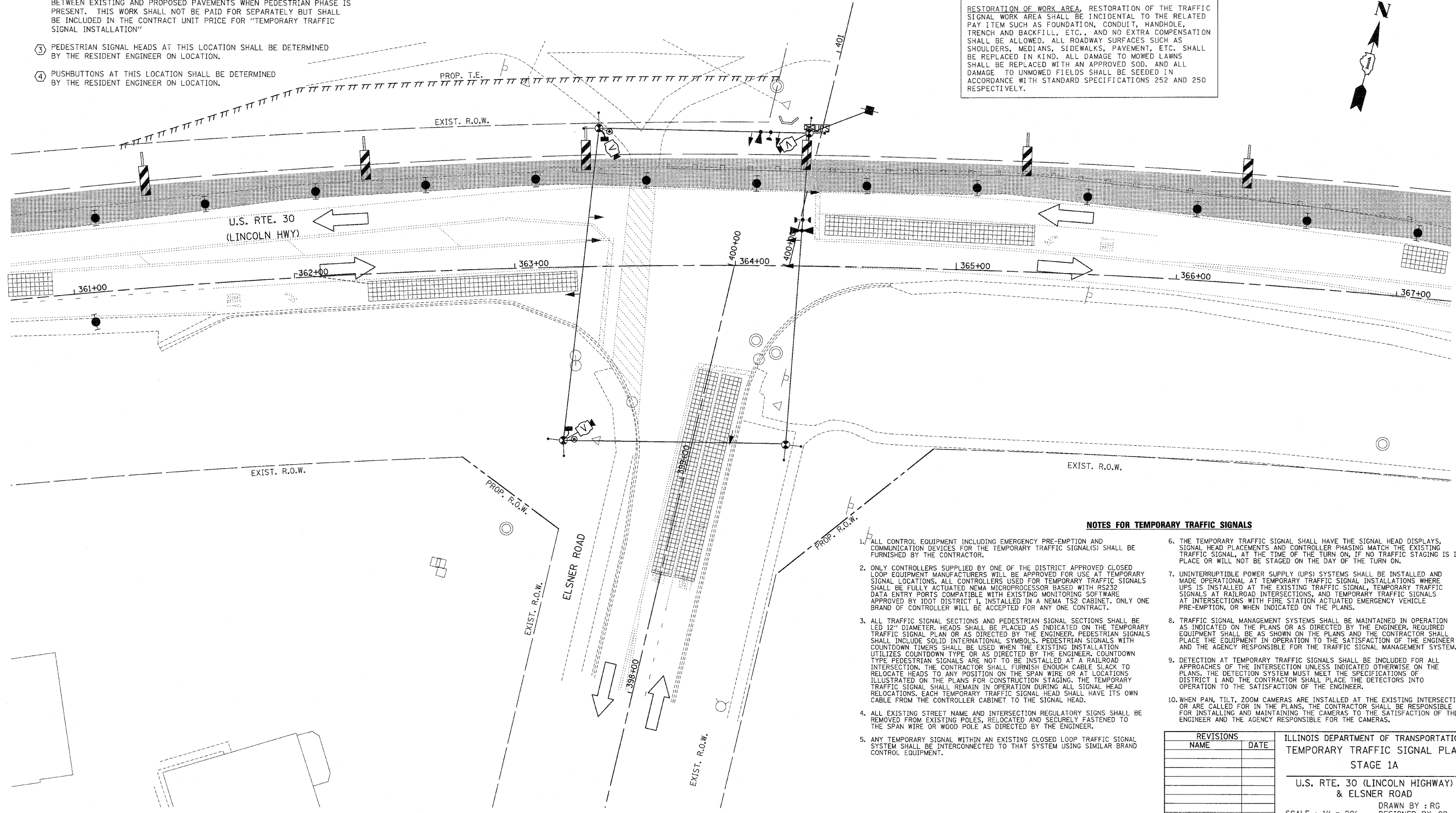
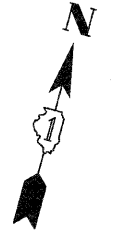
CONTRACT NO. 62479

**CONSTRUCTION NOTES:**

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**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 1A  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & ELSNER ROAD  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH  
 SCALE : 1" = 20'  
 DATE : 10/12/2010

**CONSTRUCTION NOTES:**

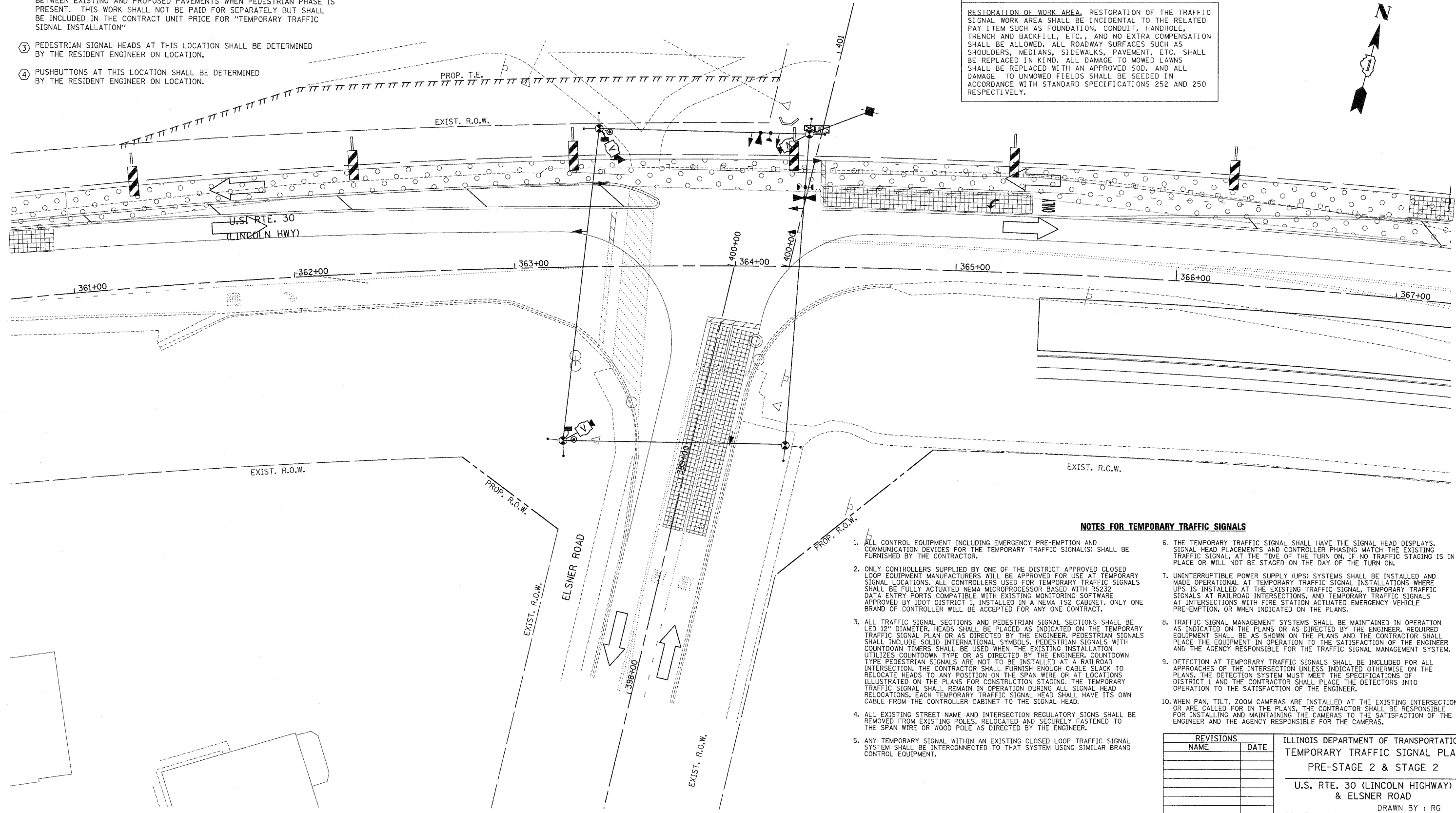
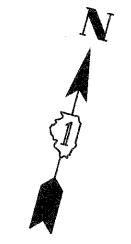
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	559
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

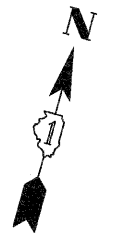
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 PRE-STAGE 2 & STAGE 2  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & ELSNER ROAD  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH  
 SCALE : 1" = 20'  
 DATE : 10/12/2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	560
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

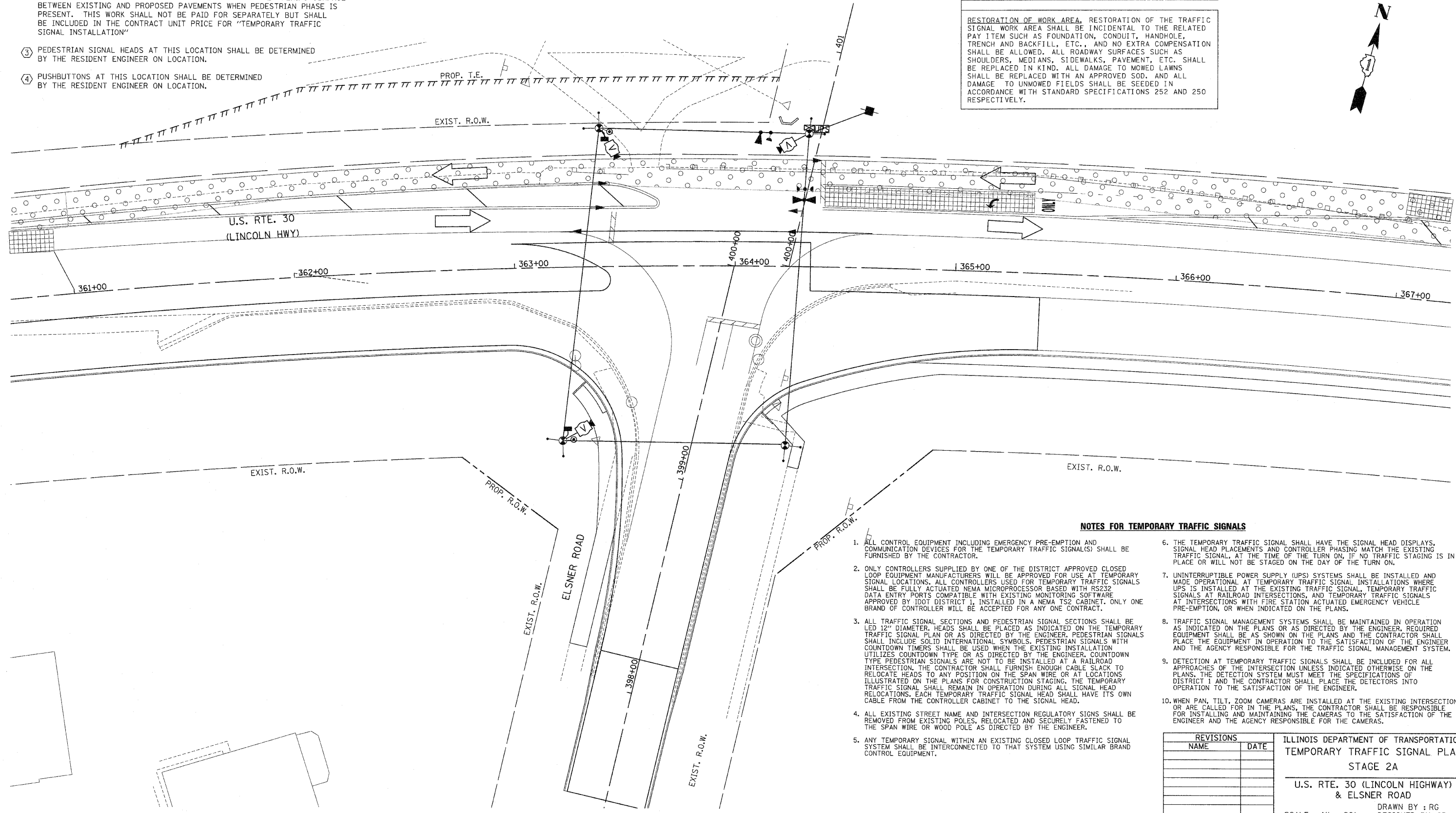


**CONSTRUCTION NOTES:**

- ① ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ④ PUSHBUTTONS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.

EXISTING EMERGENCY VEHICLE LIGHT DETECTORS, CONFIRMATION BEACONS AND LIGHT DETECTOR AMPLIFIER SHALL BE RELOCATED TO PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION. STORE EXISTING EQUIPMENT DIRECTED BY ENGINEER UNTIL NEW SIGNALS ARE TO BE INSTALLED.

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



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT I, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT I AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 2A  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & ELSNER ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	561
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

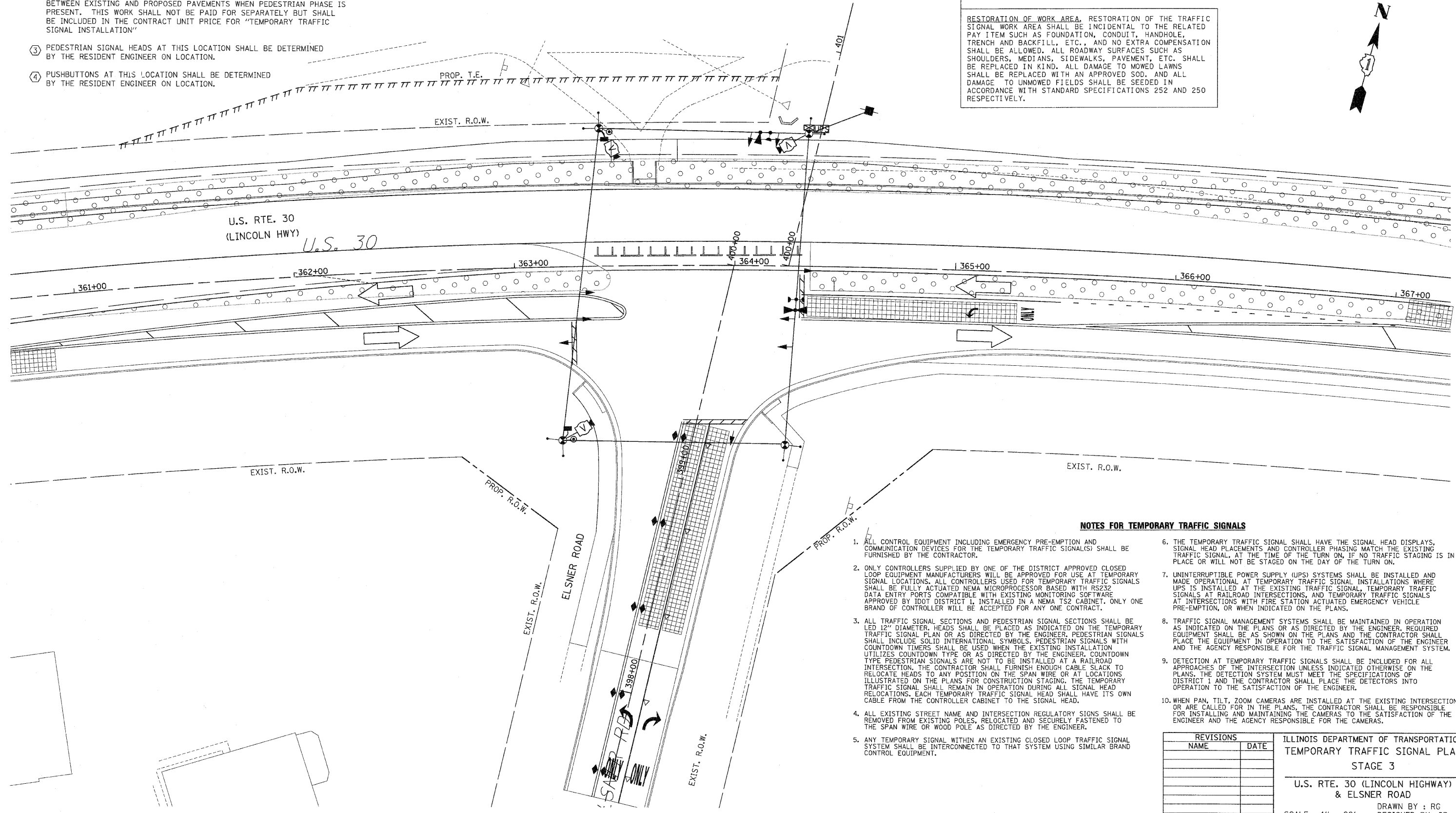


**CONSTRUCTION NOTES:**

- ① ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
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EXISTING EMERGENCY VEHICLE LIGHT DETECTORS, CONFIRMATION BEACONS AND LIGHT DETECTOR AMPLIFIER SHALL BE RELOCATED TO PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION. STORE EXISTING EQUIPMENT DIRECTED BY ENGINEER UNTIL NEW SIGNALS ARE TO BE INSTALLED.

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



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1. INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
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10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
 STAGE 3  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & ELSNER ROAD  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH  
 SCALE : 1" = 20'  
 DATE : 10/12/2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	562
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

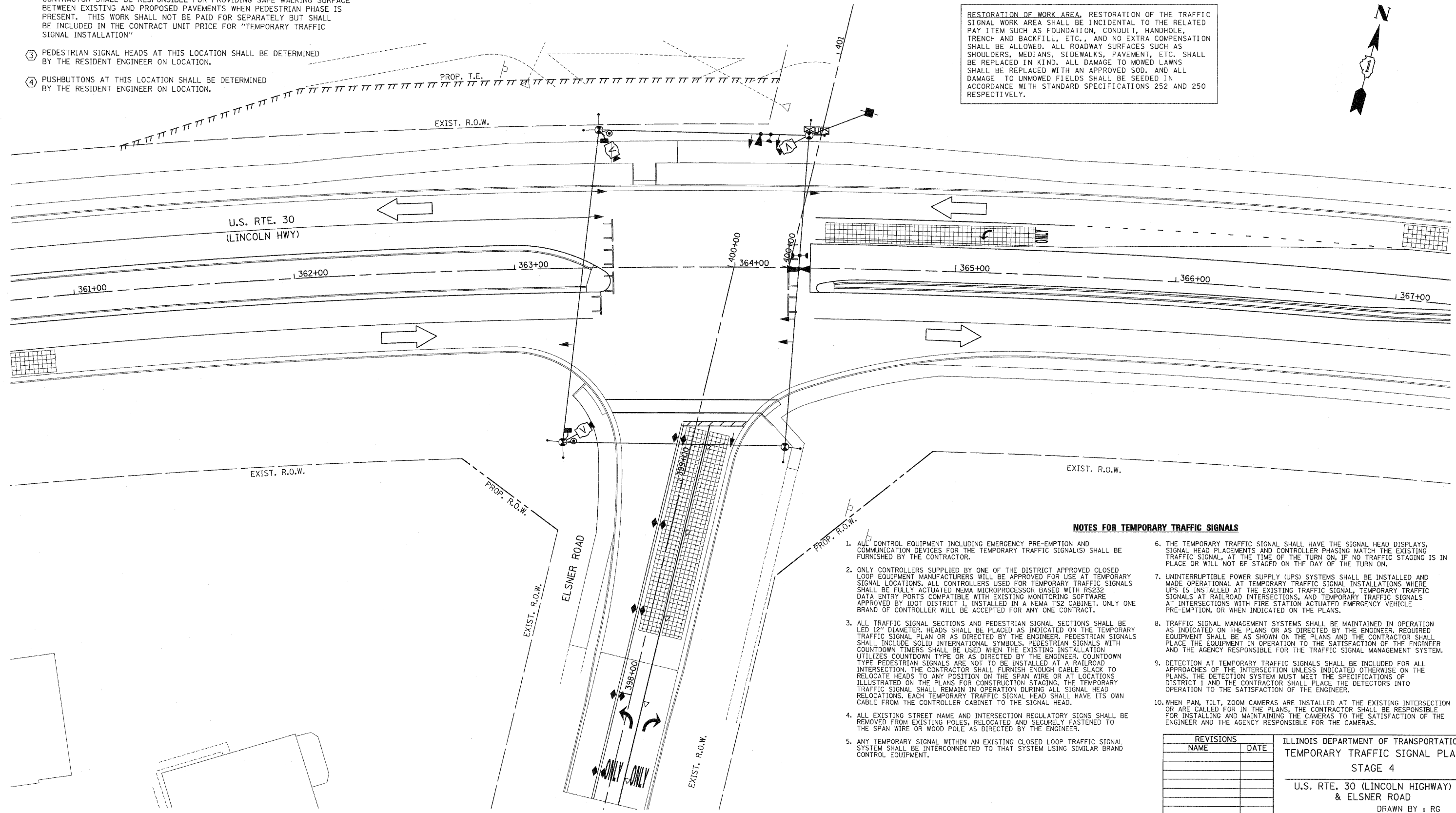
CONTRACT NO. 62479

**CONSTRUCTION NOTES:**

- ① ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
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- ④ PUSHBUTTONS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.

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**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
**STAGE 4**  
**U.S. RTE. 30 (LINCOLN HWY)**  
**& ELSNER ROAD**  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY: GB  
 CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL.	1235	563
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

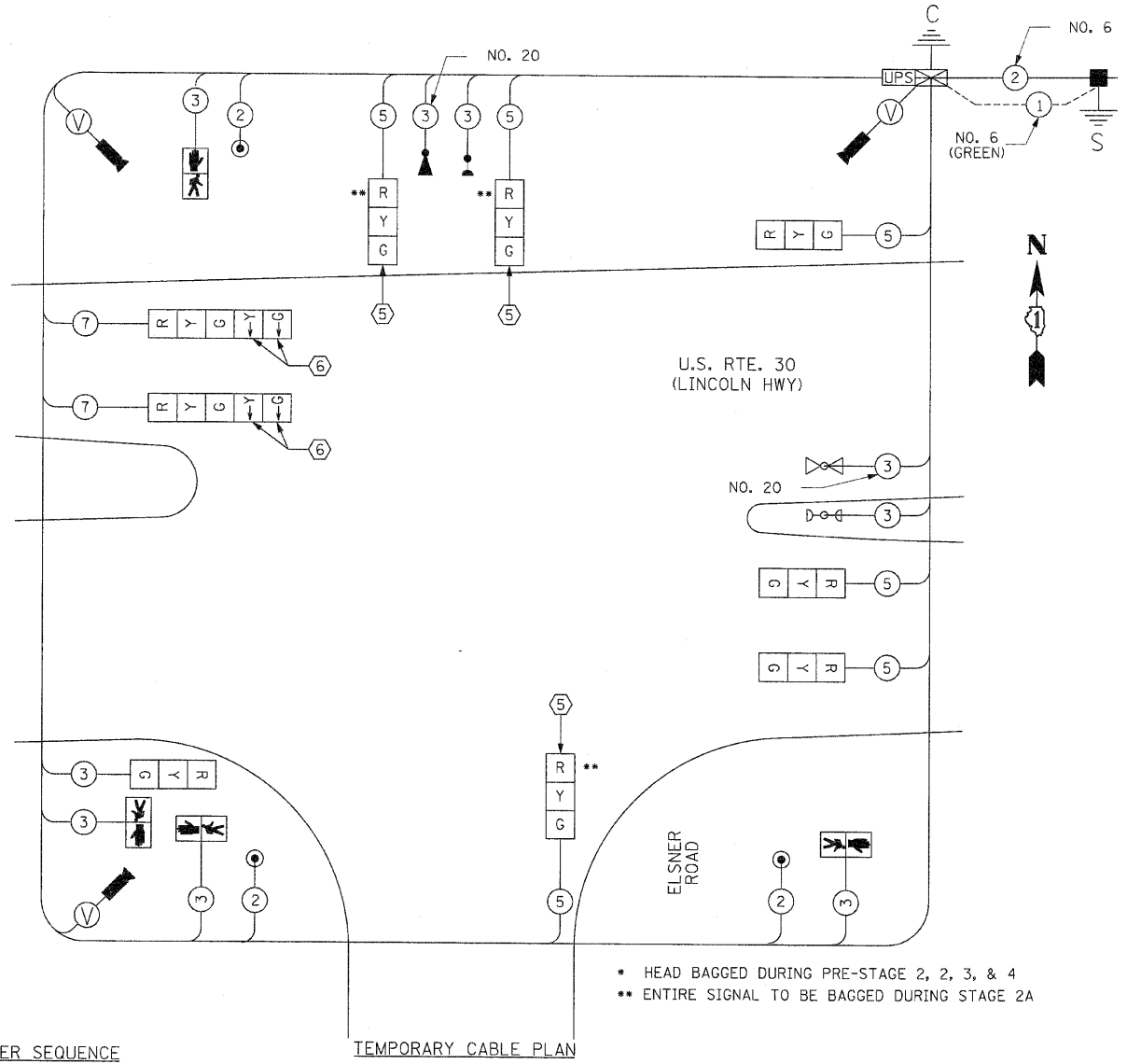
CONTRACT NO. 62479

**CONSTRUCTION NOTES:**

- ① ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECT WHEN EXISTING PAVEMENT IS REMOVED.
- ② ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE WALKING SURFACE BETWEEN EXISTING AND PROPOSED PAVEMENTS WHEN PEDESTRIAN PHASE IS PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"
- ③ PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ④ PUSHBUTTONS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.
- ⑤ SIGNAL HEAD TO BE BAGGED AND DISCONNECTED DURING STAGE 2A.
- ⑥ LENS TO BE BAGGED AND DISCONNECTED DURING STAGE 2A.

EXISTING EMERGENCY VEHICLE LIGHT DETECTORS, CONFIRMATION BEACONS AND LIGHT DETECTOR AMPLIFIER SHALL BE RELOCATED TO PROPOSED PERMANENT TRAFFIC SIGNAL INSTALLATION. STORE EXISTING EQUIPMENT DIRECTED BY ENGINEER UNTIL NEW SIGNALS ARE TO BE INSTALLED.

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



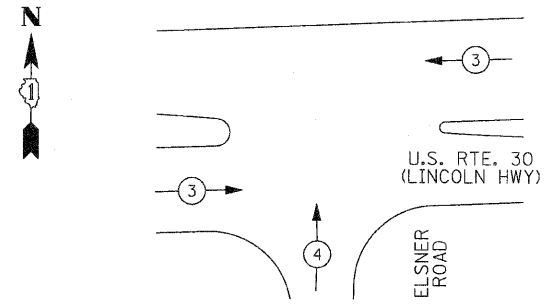
CONTROLLER SEQUENCE

TEMPORARY CABLE PLAN

CONTROLLER SEQUENCE

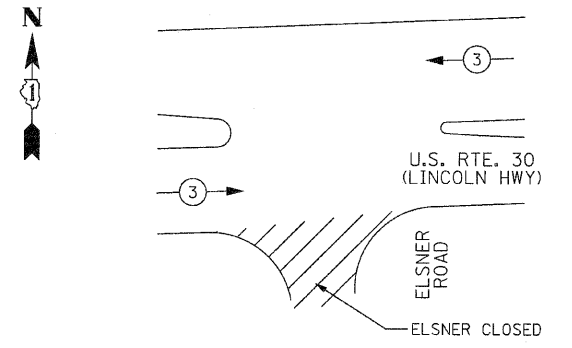
- \* HEAD BAGGED DURING PRE-STAGE 2, 2, 3, & 4
- \*\* ENTIRE SIGNAL TO BE BAGGED DURING STAGE 2A

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE ALL STAGES EXCEPT STAGE 2A



EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	← →	↑

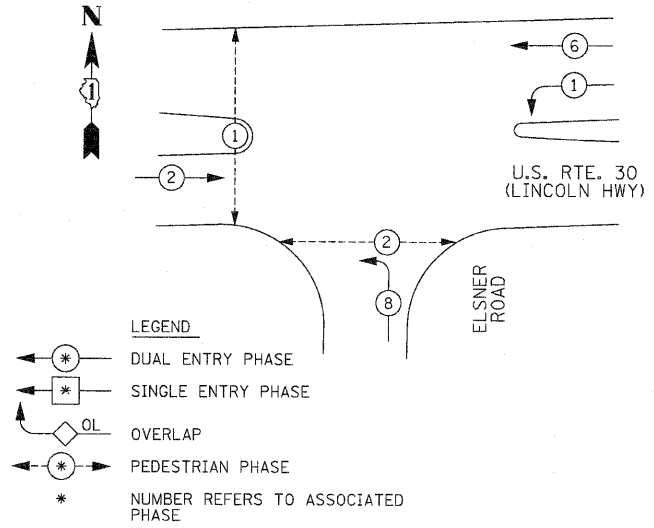
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE STAGE 2A



EMERGENCY VEHICLE PREEMPTORS	3
MOVEMENT	← →

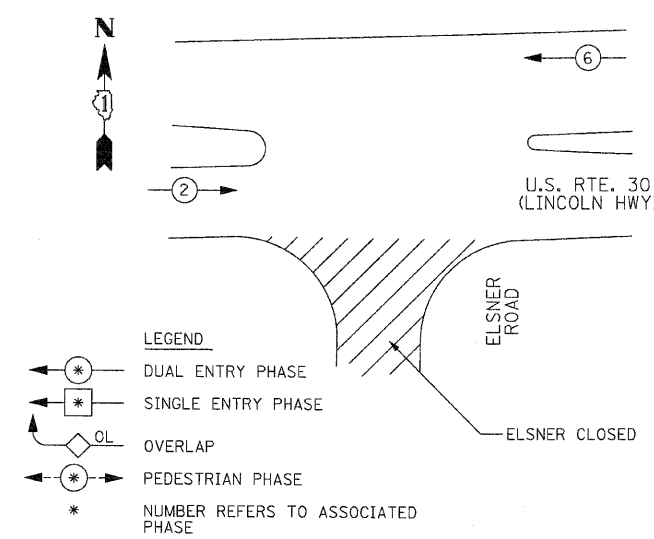
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	%OPERATION	
SIGNAL (RED)	9	17		0.50	76.5
(YELLOW)	9	25		0.25	56.25
(GREEN)	9	15		0.25	33.75
ARROW	4	12		0.10	4.80
PED. SIGNAL	4	25		1.00	100.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	0			0.05	0.00
VIDEO SYSTEM	-		150	1.00	150
FLASHER	0			0.50	.00
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION					TOTAL = 521.3

201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096  
CONTACT: MR. HARRY JONES  
PHONE: (815) 724-5057  
COMPANY: COM. ED.



- LEGEND
- ←\*→ DUAL ENTRY PHASE
  - ←\* SINGLE ENTRY PHASE
  - ←OL→ OVERLAP
  - ←\*→ PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM ALL STAGES EXCEPT STAGE 2A



- LEGEND
- ←\*→ DUAL ENTRY PHASE
  - ←\* SINGLE ENTRY PHASE
  - ←OL→ OVERLAP
  - ←\*→ PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM STAGE 2A

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TEMPORARY CABLE PLAN,  
TEMPORARY PHASE DESIGNATION  
DIAGRAM, TEMPORARY EMERGENCY  
VEHICLE PREEMPTION

US RTE. 30 AT ELSNER ROAD

SCALE: 1" = NTS  
DATE: 10/12/2010

DRAWN BY: RG  
DESIGNED BY: GB  
CHECKED BY: ZH

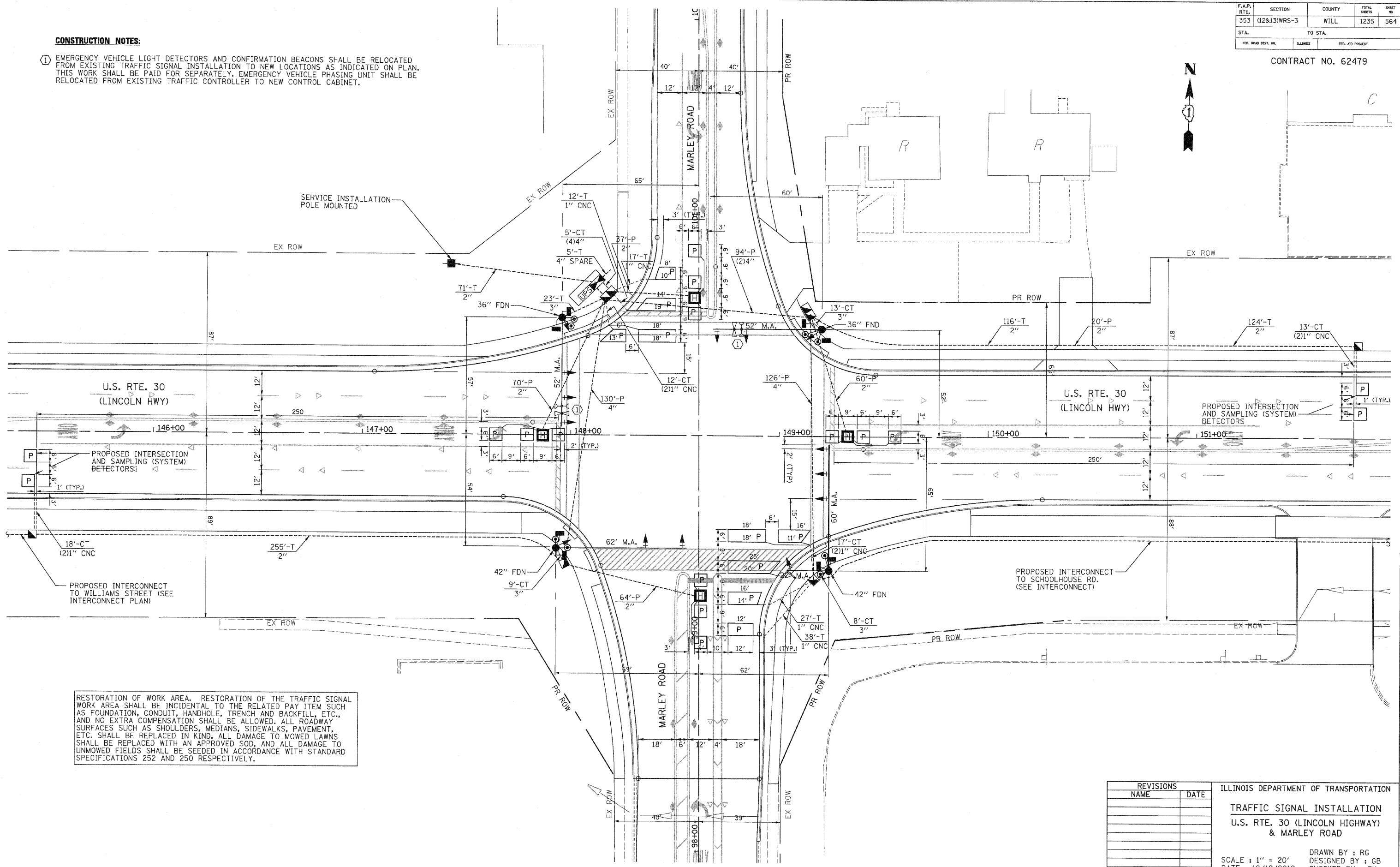
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	564
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



**CONSTRUCTION NOTES:**

① EMERGENCY VEHICLE LIGHT DETECTORS AND CONFIRMATION BEACONS SHALL BE RELOCATED FROM EXISTING TRAFFIC SIGNAL INSTALLATION TO NEW LOCATIONS AS INDICATED ON PLAN. THIS WORK SHALL BE PAID FOR SEPARATELY. EMERGENCY VEHICLE PHASING UNIT SHALL BE RELOCATED FROM EXISTING TRAFFIC CONTROLLER TO NEW CONTROL CABINET.



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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INSTALLATION**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
**& MARLEY ROAD**

SCALE : 1" = 20'  
DATE : 10/12/2010

DRAWN BY : RG  
DESIGNED BY : GB  
CHECKED BY : ZH

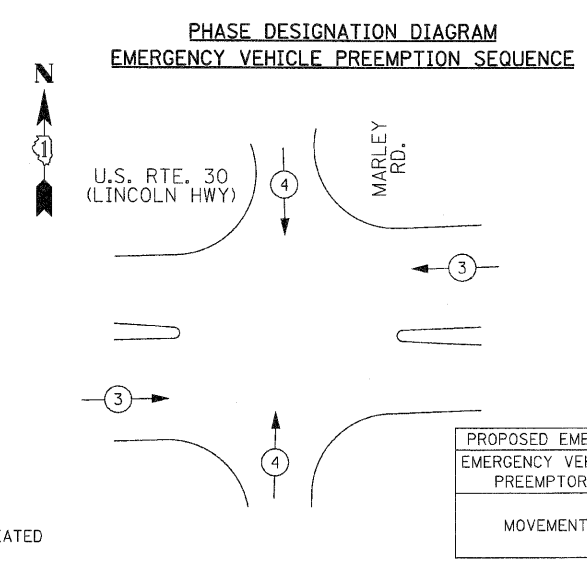
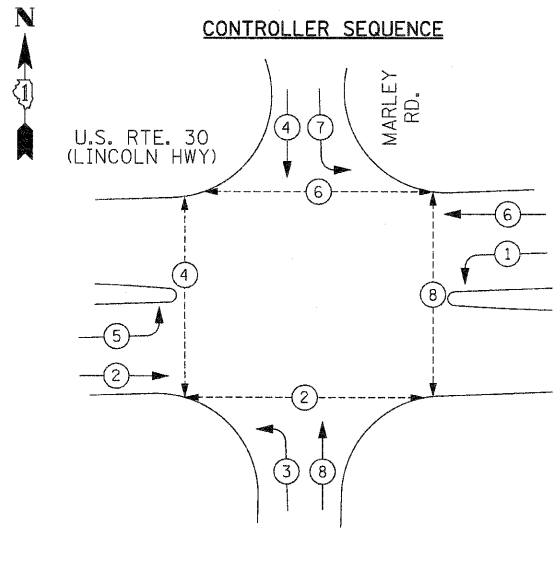
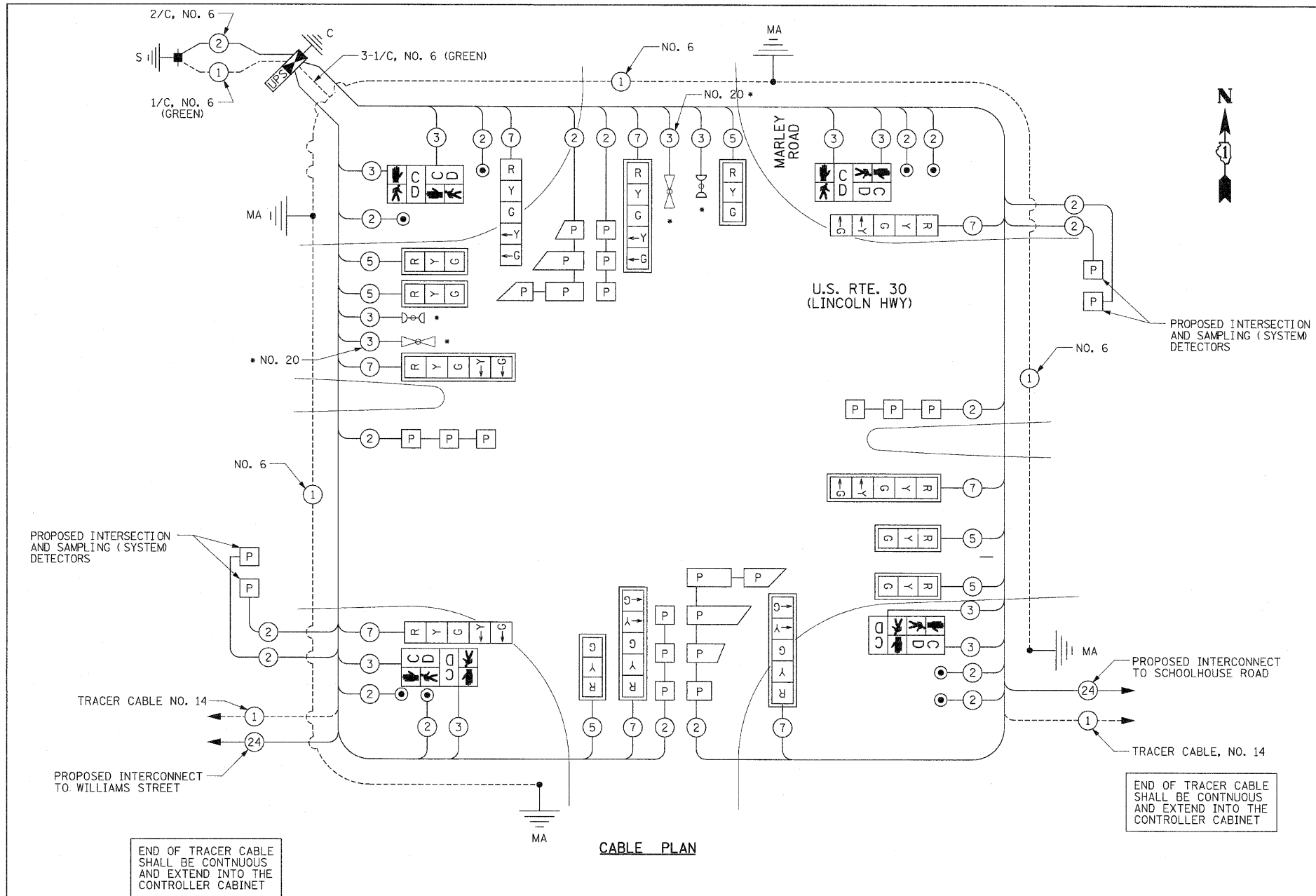
F.A.P. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	565
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	NEW LENOX QUANTITY	EPD QUANTITY *
SIGN PANEL - TYPE 1	SQ FT	15	
SIGN PANEL - TYPE 2	SQ FT	30	
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	566	
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	53	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	25	
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	251	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	444	
HANDHOLE	EACH	4	
HEAVY-DUTY HANDHOLE	EACH	4	
DOUBLE HANDHOLE	EACH	2	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	599	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1340	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1728	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1322	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1669	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2508	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	94	
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	2	
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1	
CONCRETE FOUNDATION, TYPE C	FOOT	4	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30	
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5	
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	11	
INDUCTIVE LOOP DETECTOR	EACH	10	
PEDESTRIAN PUSH-BUTTON	EACH	8	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH		2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH		1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
REMOVE EXISTING HANDHOLE	EACH	4	
PREFORMED DETECTOR LOOP	EACH	982	
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	
FULL-ACTUATED CONTROLLER AND CABINET (SPECIAL)	EACH	1	
SERVICE INSTALLATION - POLE MOUNTED	EACH	1	
UNINTERRUPTIBLE POWER SUPPLY	EACH	1	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	753	
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT		332
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 60 FT.	EACH	1	

\* 100% COST TO THE NEW LENOX FIRE PROTECTION DISTRICT



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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

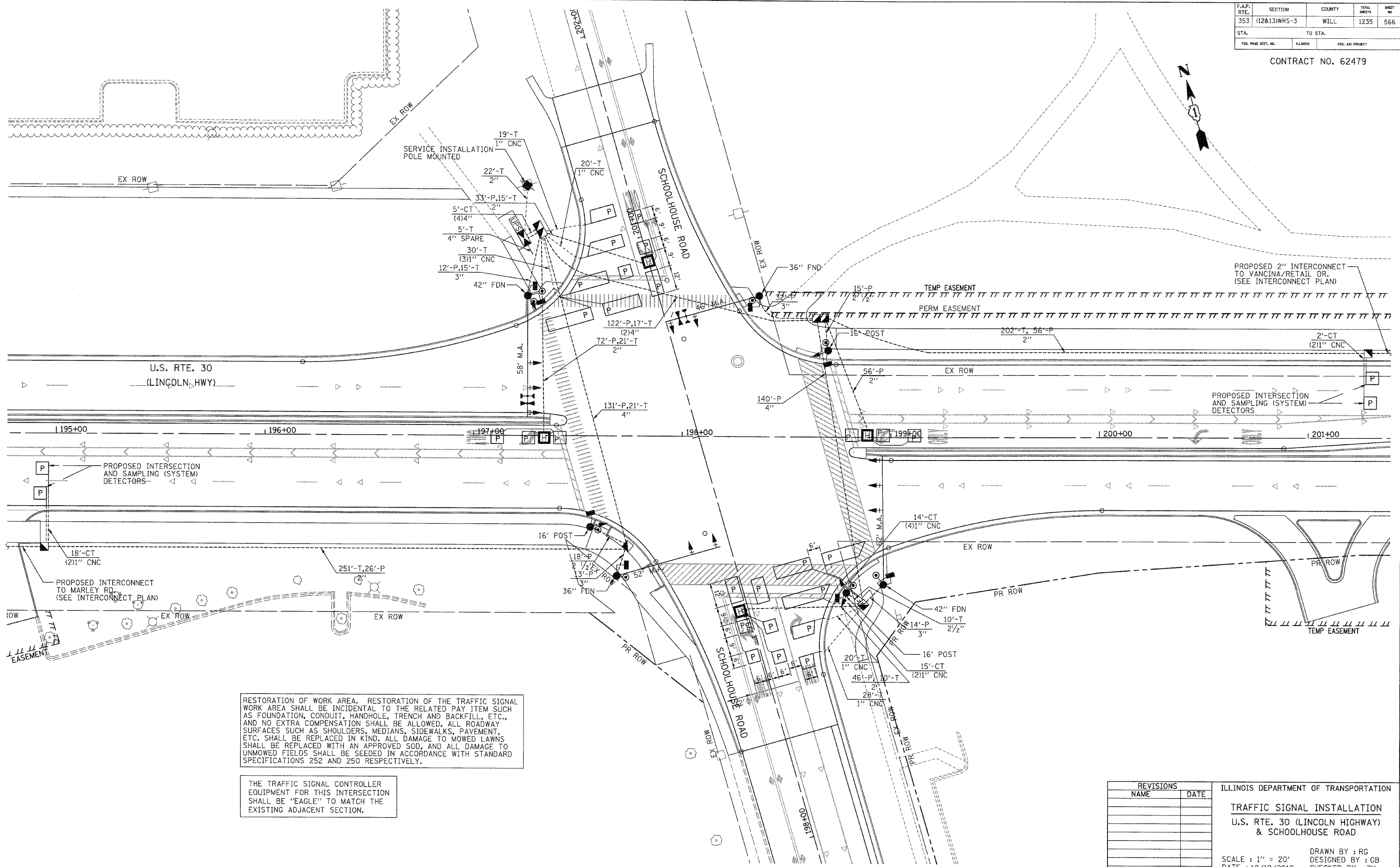
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	
SIGNAL (RED)	14	17		0.50	119
(YELLOW)	14	25		0.25	87.5
(GREEN)	14	15		0.25	52.5
ARROW	16	12		0.10	19.2
PED. SIGNAL	8	25		1.00	200
CONTROLLER	1	100		1.00	100
ILLUM. SIGN		25			
FLASHER					
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION					
201 WEST CENTER COURT					
SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: MARK ANDERSON					
PHONE: (815) 724-5988					
COMPANY: COM. ED.					
TOTAL =					578.2

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION, SCHEDULE OF QUANTITIES</b>  <b>US RTE. 30 AT MARLEY ROAD</b> DRAWN BY : RG DESIGNED BY : GB DATE : 10/12/2010 CHECKED BY : ZH



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	566
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



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

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SECTION.

REVISIONS	
NAME	DATE

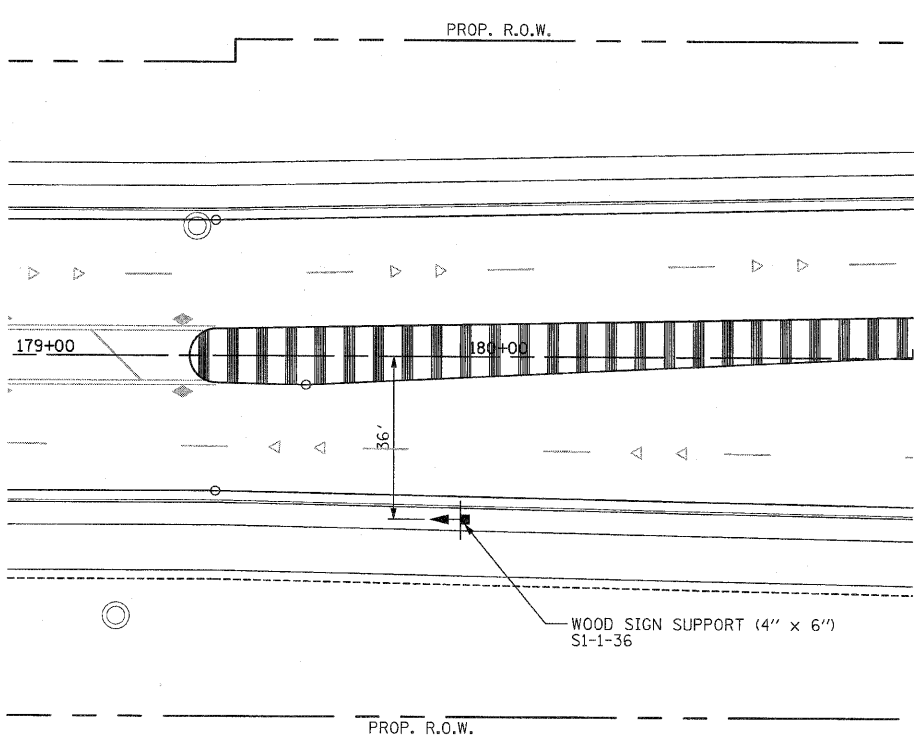
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INSTALLATION**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & SCHOOLHOUSE ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	567
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

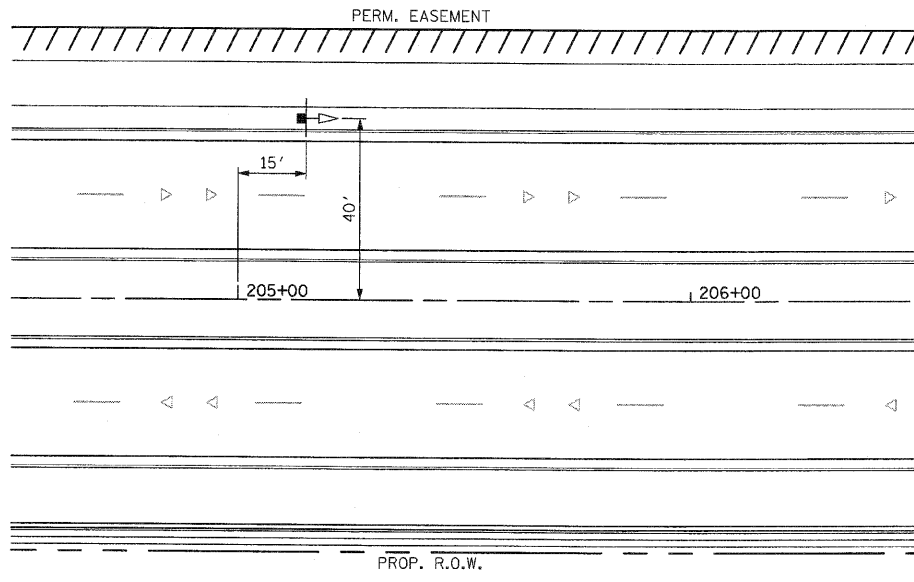
CONTRACT NO. 62479

**FLASHER BEACON LEGEND**

	<b>PROPOSED</b>	<b>EXISTING</b>
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
HANDHOLE		
SIGN		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		



**FLASHING BEACON INSTALLATION  
(STA. 180+00 RT.)**



**FLASHING BEACON RELOCATION  
(STA. 205+15 LT.)**

NOTE: EXISTING FLASHING BEACON INSTALLATION IS LOCATED AT STA 208+22. THE INSTALLATION IS SOLAR POWERED. THE COST OF CONCRETE FOUNDATION, TYPE A AND THE REMOVAL OF THE EXISTING FOUNDATION SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "RELOCATE EXISTING FLASHING BEACON."

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	9
WOOD SIGN SUPPORT	FOOT	19
RELOCATE EXISTING FLASHING BEACON	EACH	1
FLASHING BEACON, POST MOUNTED, SOLAR POWERED INSTALLATION	EACH	1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FLASHING BEACON PLAN**  
U.S. RTE. 30 (LINCOLN HIGHWAY)  
& SCHOOLHOUSE ROAD  
SCALE : 1" = 20'  
DATE : 10/12/2010  
DRAWN BY : RG  
DESIGNED BY : GB  
CHECKED BY : ZH

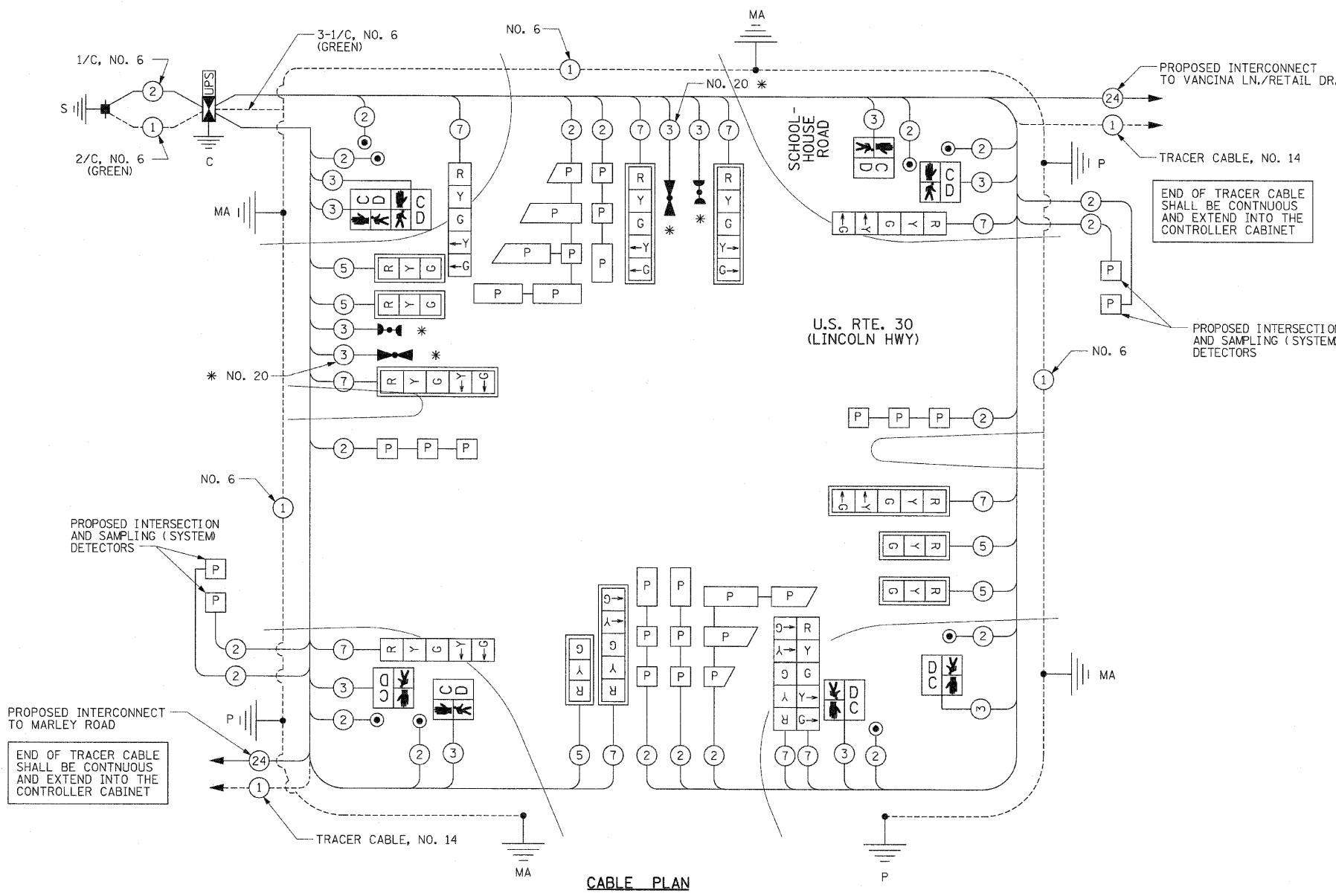
F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	568
STA.	TO STA.			
FED. AID DIST. NO.	ELIGIBLE	FED. AID PROJECT		

CONTRACT NO. 62479

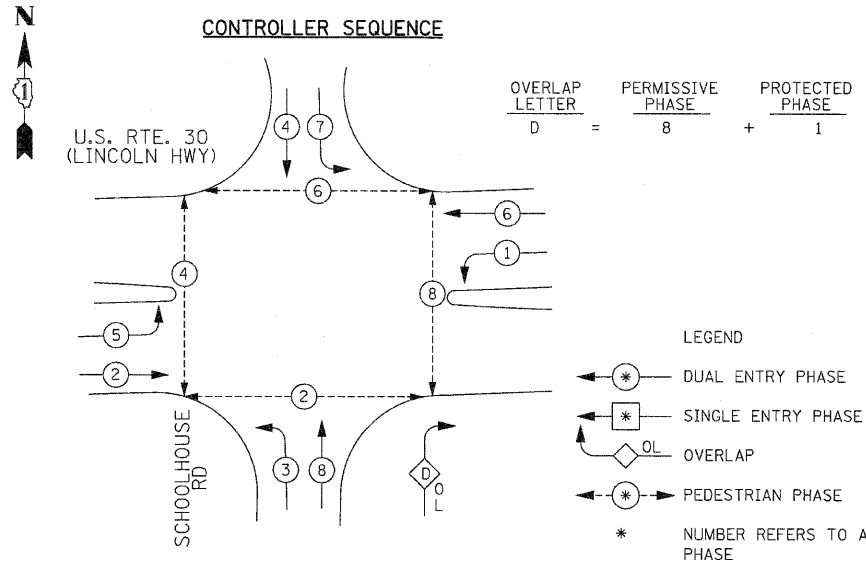
**SCHEDULE OF QUANTITIES**

ITEM	UNIT	NEW LENOX QUANTITY	EPD QUANTITY *
SIGN PANEL - TYPE 2	SQ FT	60	
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	521	
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	10	
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	15	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	75	
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	291	
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	33	
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	71	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	515	
HANDHOLE	EACH	4	
HEAVY-DUTY HANDHOLE	EACH	4	
DOUBLE HANDHOLE	EACH	2	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	594	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1621	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2070	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1286	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2493	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3356	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	45	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3	
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1	
CONCRETE FOUNDATION, TYPE A	FOOT	12	
CONCRETE FOUNDATION, TYPE C	FOOT	4	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28	
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5	
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6	
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10	
INDUCTIVE LOOP DETECTOR	EACH	11	
* LIGHT DETECTOR	EACH		2
* LIGHT DETECTOR AMPLIFIER	EACH		1
PEDESTRIAN PUSH-BUTTON	EACH	8	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
REMOVE EXISTING HANDHOLE	EACH	12	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	
PREFORMED DETECTOR LOOP	FOOT	1315	
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	
FULL-ACTUATED CONTROLLER AND CABINET (SPECIAL)	EACH	1	
SERVICE INSTALLATION-POLE MOUNTED	EACH	1	
UNINTERRUPTABLE POWER SUPPLY	EACH	1	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	905	
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT		400

\* - 100% COST TO THE NEW LENOX FIRE PROTECTION DISTRICT

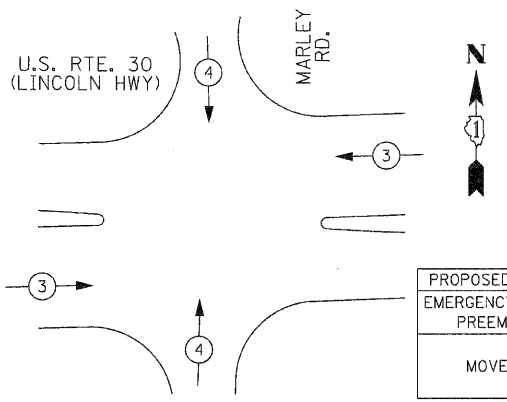


**CABLE PLAN**



**CONTROLLER SEQUENCE**

**PHASE DESIGNATION DIAGRAM  
EMERGENCY VEHICLE PREEMPTION SEQUENCE**



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	TOTAL WATTAGE
SIGNAL (RED)	15	17	0.50	127.5
(YELLOW)	15	25	0.25	93.75
(GREEN)	15	15	0.25	56.25
ARROW	22	12	0.10	26.4
PED. SIGNAL	8	25	1.00	200
CONTROLLER	1	100	1.00	100
ILLUM. SIGN		25		
FLASHER				
TOTAL =				603.9

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096  
CONTACT: MARK ANDERSON  
PHONE: (815) 724-5988  
COMPANY: COM. ED.

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION, SCHEDULE OF QUANTITIES

US RTE. 30 AT SCHOOLHOUSE ROAD

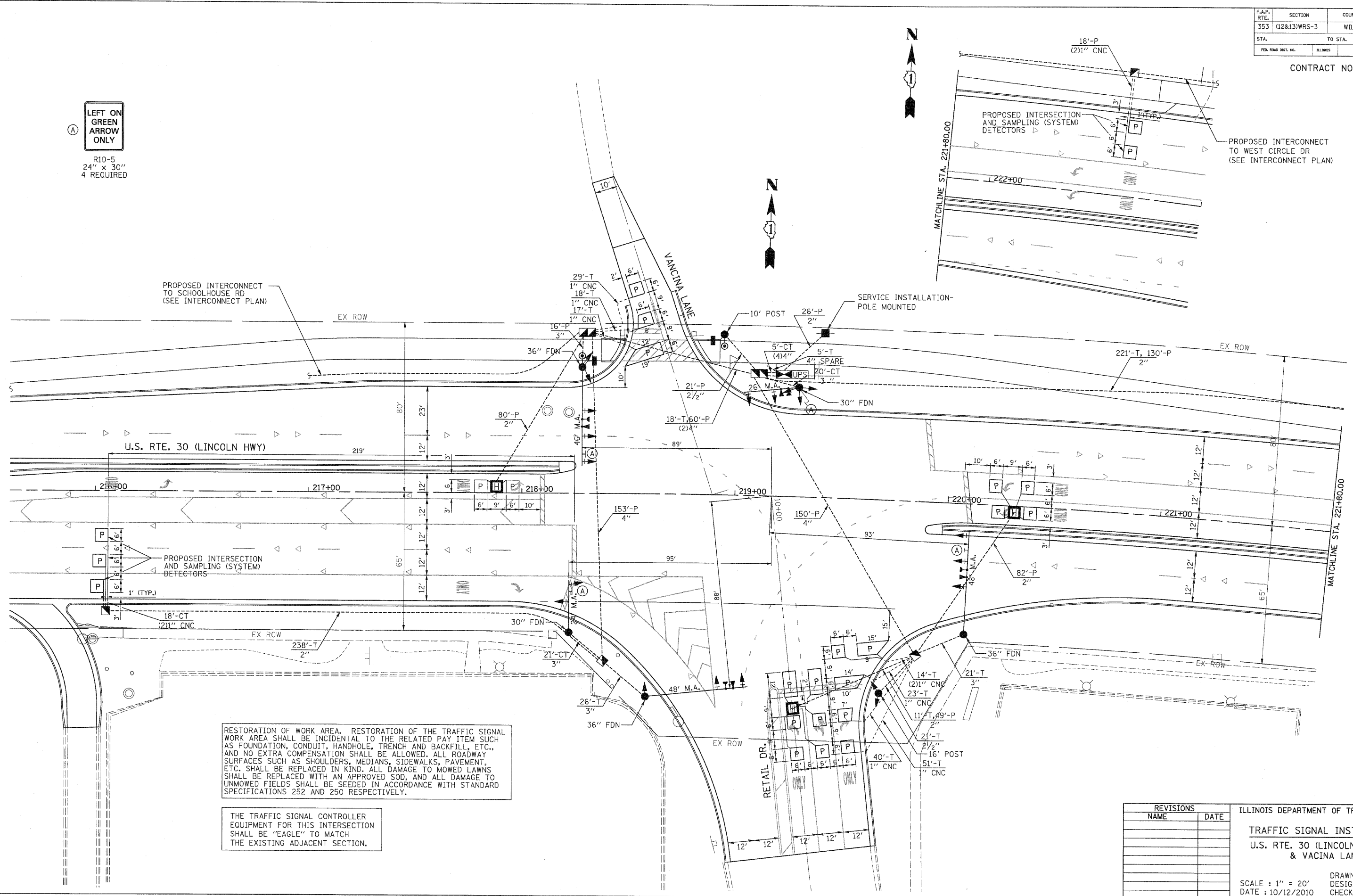
SCALE: 1" = NTS  
DATE: 10/12/2010

DRAWN BY: RG  
DESIGNED BY: GB  
CHECKED BY: ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	569
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

LEFT ON GREEN ARROW ONLY  
 R10-5  
 24" x 30"  
 4 REQUIRED



PROPOSED INTERCONNECT TO SCHOOLHOUSE RD (SEE INTERCONNECT PLAN)

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROPOSED INTERCONNECT TO WEST CIRCLE DR (SEE INTERCONNECT PLAN)

U.S. RTE. 30 (LINCOLN HWY)

VACINA LANE

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

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

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SECTION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SIGNAL INSTALLATION  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & VACINA LANE  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

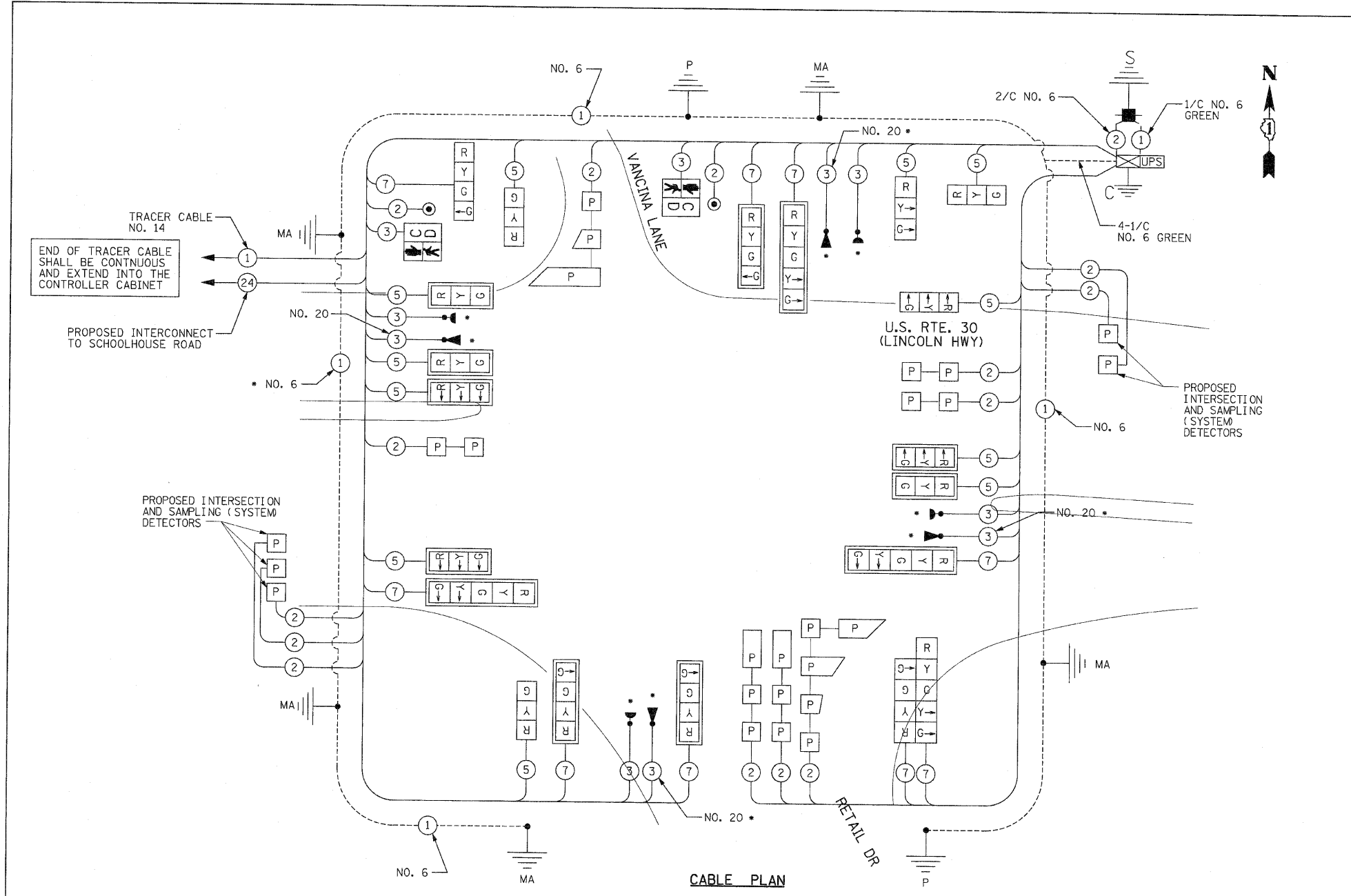
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	570
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

**SCHEDULE OF QUANTITIES**

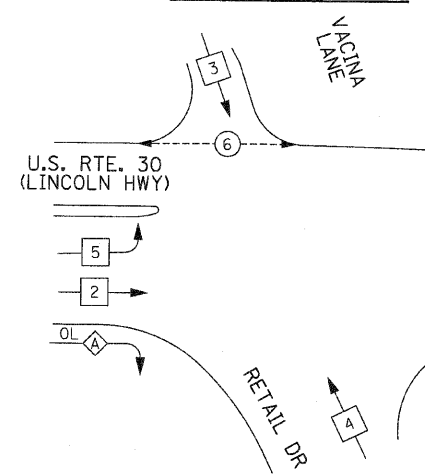
ITEM	UNIT	NEW LENOX	EPD
		QUANTITY	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	50	
SIGN PANEL - TYPE 2	SQ FT	30	
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	470	
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	21	
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	88	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	61	
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	367	
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	21	
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	16	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	EACH	423	
HANDHOLE	EACH	4	
HEAVY-DUTY HANDHOLE	EACH	3	
DOUBLE HANDHOLE	FOOT	2	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	561	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	195	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1092	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2067	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2071	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3564	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	EACH	49	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	FOOT	2	
CONCRETE FOUNDATION, TYPE A	FOOT	8	
CONCRETE FOUNDATION, TYPE C	FOOT	4	
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	EACH	39	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	3	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3	
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	1	
SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1	
SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12	
INDUCTIVE LOOP DETECTOR	EACH	12	
* LIGHT DETECTOR	EACH		4
* LIGHT DETECTOR AMPLIFIER	EACH		1
PEDESTRIAN PUSH-BUTTON	EACH	2	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
REMOVE EXISTING HANDHOLE	EACH	9	
REMOVE EXISTING CONCRETE FOUNDATION	FOOT	6	
PREFORMED DETECTOR LOOP	EACH	874	
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	
FULL-ACTUATED CONTROLLER AND CABINET (SPECIAL)	EACH	1	
SERVICE INSTALLATION - POLE MOUNTED	EACH	1	
UNINTERRUPTABLE POWER SUPPLY	FOOT	1	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1	
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	852	

\* 100% COST TO THE NEW LENOX FIRE PROTECTION DISTRICT

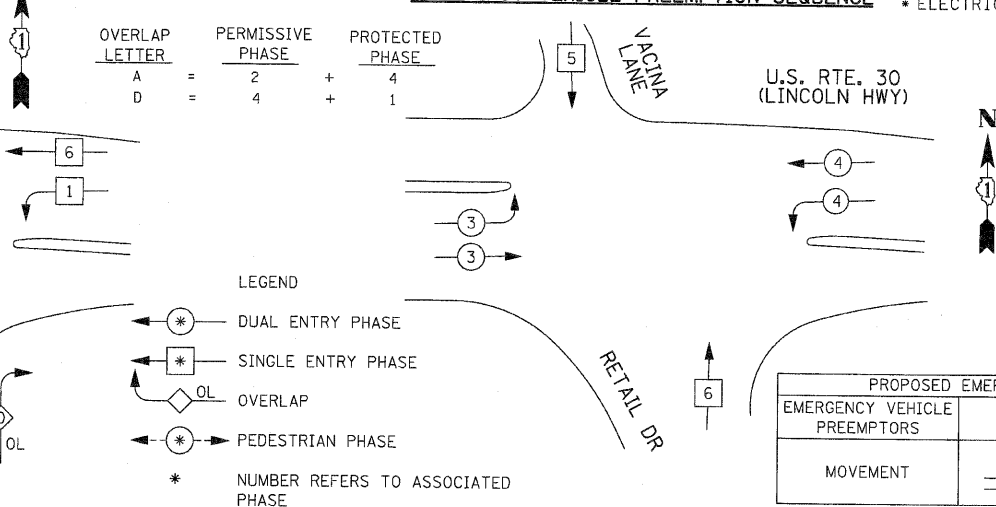


**CABLE PLAN**

**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM  
EMERGENCY VEHICLE PREEMPTION SEQUENCE**



- LEGEND**
- ⊛ DUAL ENTRY PHASE
  - ⊙ SINGLE ENTRY PHASE
  - ⊔ OVERLAP
  - ⊚ PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	16		17	0.50	136
(YELLOW)	15		25	0.25	93.75
(GREEN)	15		15	0.25	56.25
ARROW	27		12	0.10	32.4
PED. SIGNAL	2		25	1.00	50
CONTROLLER ILLUM. SIGN	1		100	1.00	100
FLASHER				1.00	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION					TOTAL = 468.4
201 WEST CENTER COURT, SCHAMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: MARK ANDERSON, PHONE: (815) 724-5988, COMPANY: COM. ED.					

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS		PROPOSED EMERGENCY VEHICLE PREEMPTORS			
NAME	DATE	3	4	5	6
		↖	↗	↓	↑

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION, SCHEDULE OF QUANTITIES

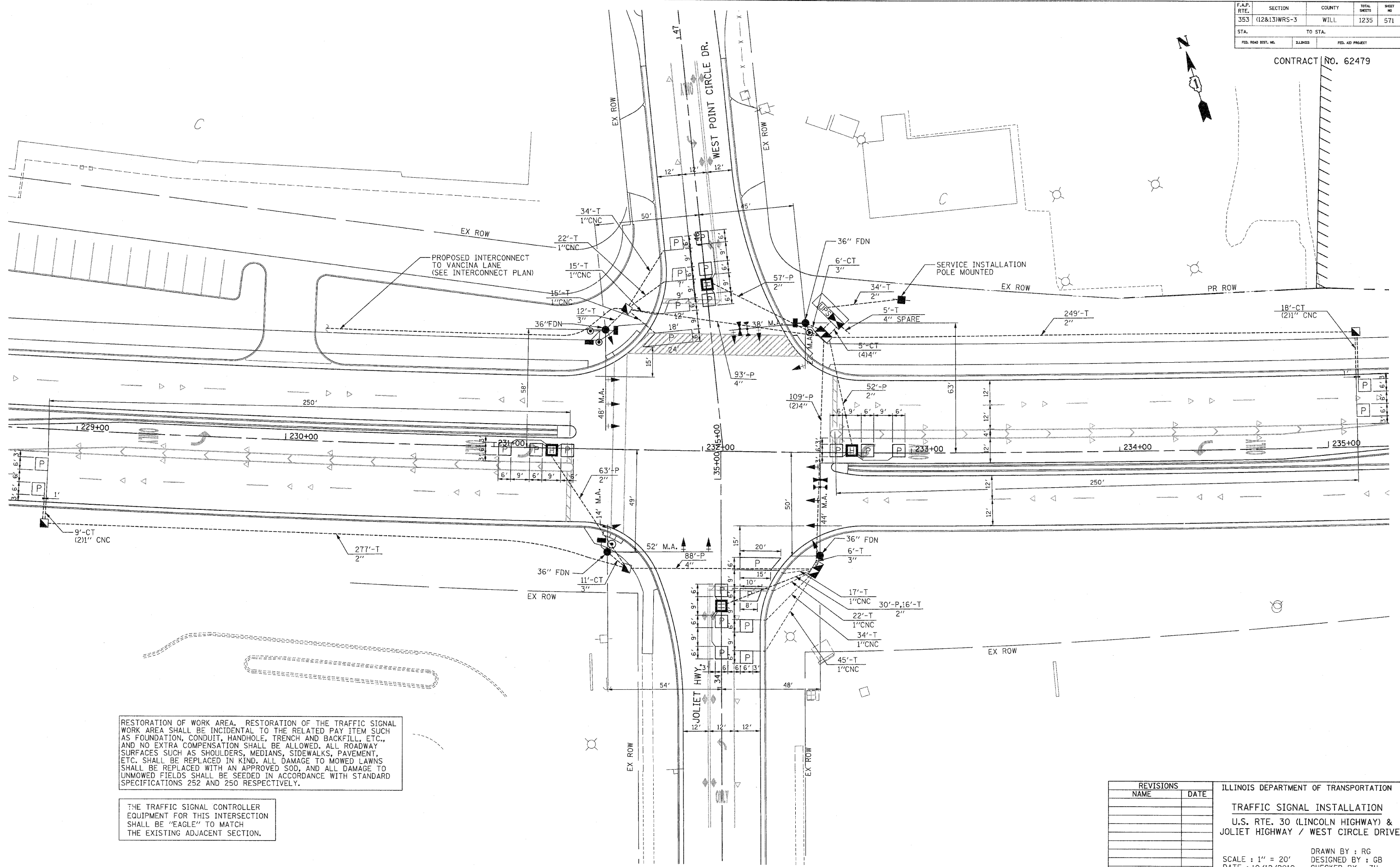
US RTE. 30 AT VACINA LANE

SCALE: 1" = NTS  
DATE: 10/12/2010

DRAWN BY: RG  
DESIGNED BY: GB  
CHECKED BY: ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	571
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



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

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SECTION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SIGNAL INSTALLATION  
 U.S. RTE. 30 (LINCOLN HIGHWAY) &  
 JOLIET HIGHWAY / WEST CIRCLE DRIVE  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

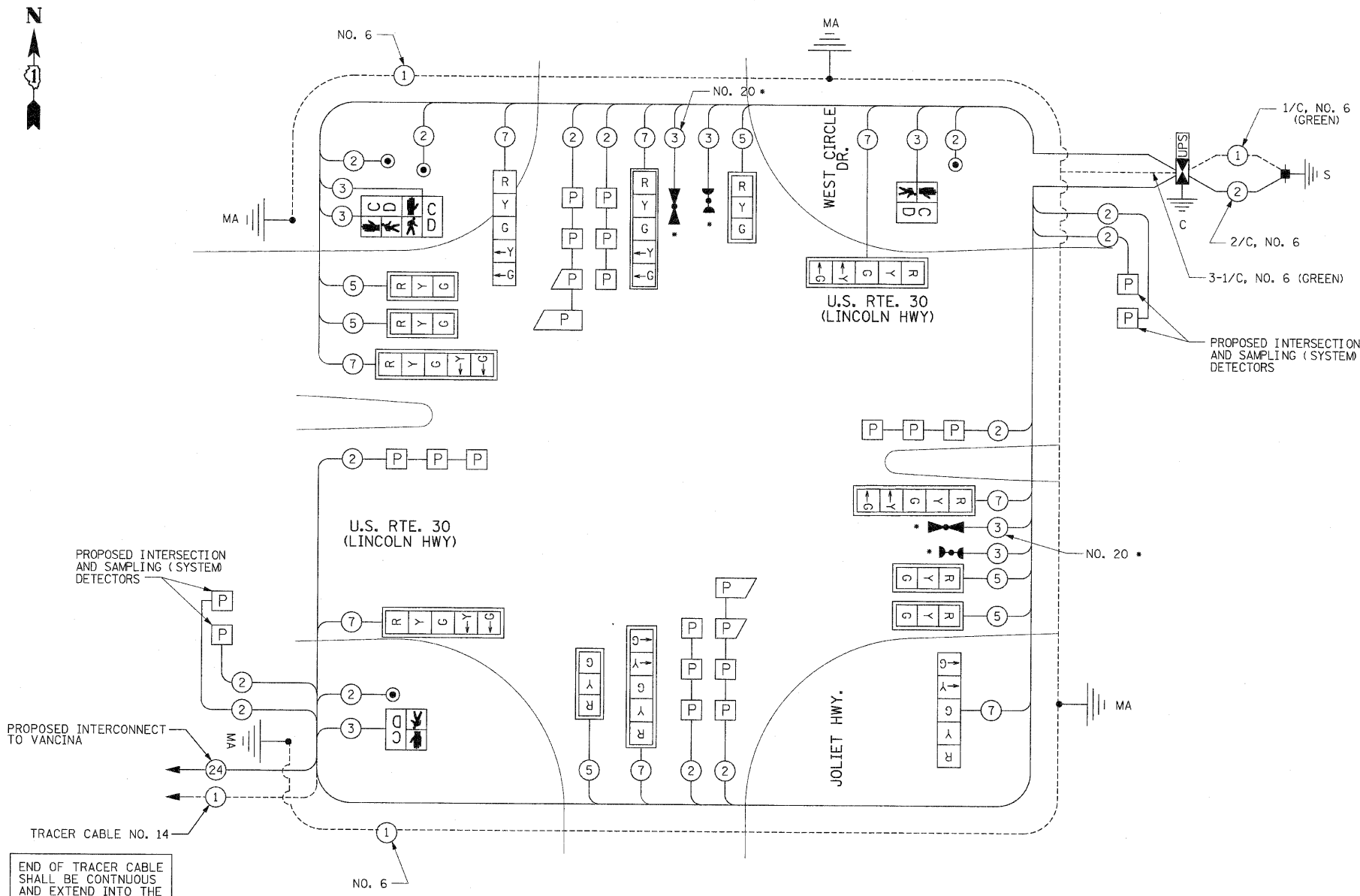
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	572
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

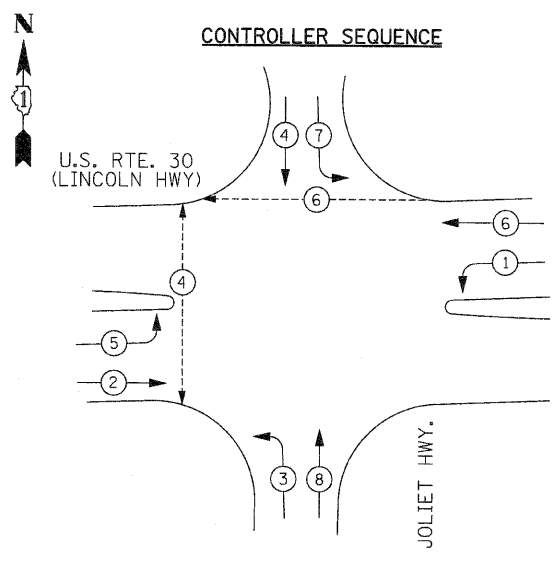
**SCHEDULE OF QUANTITIES**

ITEM	UNIT	NEW LENOX QUANTITY	FPD* QUANTITY
SIGN PANEL - TYPE 1	SQ FT	33	
SIGN PANEL - TYPE 2	SQ FT	30	
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	576	
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	35	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	25	
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	202	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	399	
HANDHOLE	EACH	4	
HEAVY-DUTY HANDHOLE	EACH	4	
DOUBLE HANDHOLE	EACH	2	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	599	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	591	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	920	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1536	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1146	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2540	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	57	
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 22 FT.	EACH	1	
CONCRETE FOUNDATION, TYPE C	FOOT	4	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12	
INDUCTIVE LOOP DETECTOR	EACH	10	
* LIGHT DETECTOR	EACH		2
* LIGHT DETECTOR AMPLIFIER	EACH		1
PEDESTRIAN PUSH-BUTTON	EACH	4	
PREFORMED DETECTOR LOOP	FOOT	824	
FULL-ACTUATED CONTROLLER AND CABINET (SPECIAL)	EACH	1	
SERVICE INSTALLATION - POLE MOUNTED	EACH	1	
UNINTERRUPTABLE POWER SUPPLY	EACH	1	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	653	
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT		301
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 60 FT.	EACH	1	

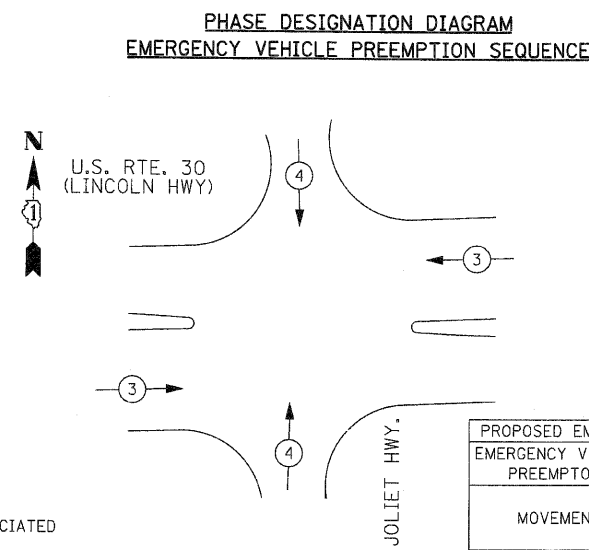
\* 100% COST TO THE NEW LENOX FIRE PROTECTION DISTRICT



**CABLE PLAN**



**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM  
EMERGENCY VEHICLE PREEMPTION SEQUENCE**

- LEGEND**
- ⊛ DUAL ENTRY PHASE
  - ⊠ SINGLE ENTRY PHASE
  - ⊠ OL OVERLAP
  - ⊠ PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

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

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	14	17		0.50	119
(YELLOW)	14	25		0.25	87.5
(GREEN)	14	15		0.25	52.5
ARROW	16	12		0.10	19.2
PED. SIGNAL	4	25		1.00	100
CONTROLLER	1	100		1.00	100
ILLUM. SIGN		25			
FLASHER					
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION					TOTAL = 478.2
201 WEST CENTER COURT					
SCHAUMBURG, ILLINOIS 60196-1096					
CONTACT: MARK ANDERSON					
PHONE: (815) 724-5988					
COMPANY: COM. ED.					

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION, SCHEDULE OF QUANTITIES
NAME	DATE	

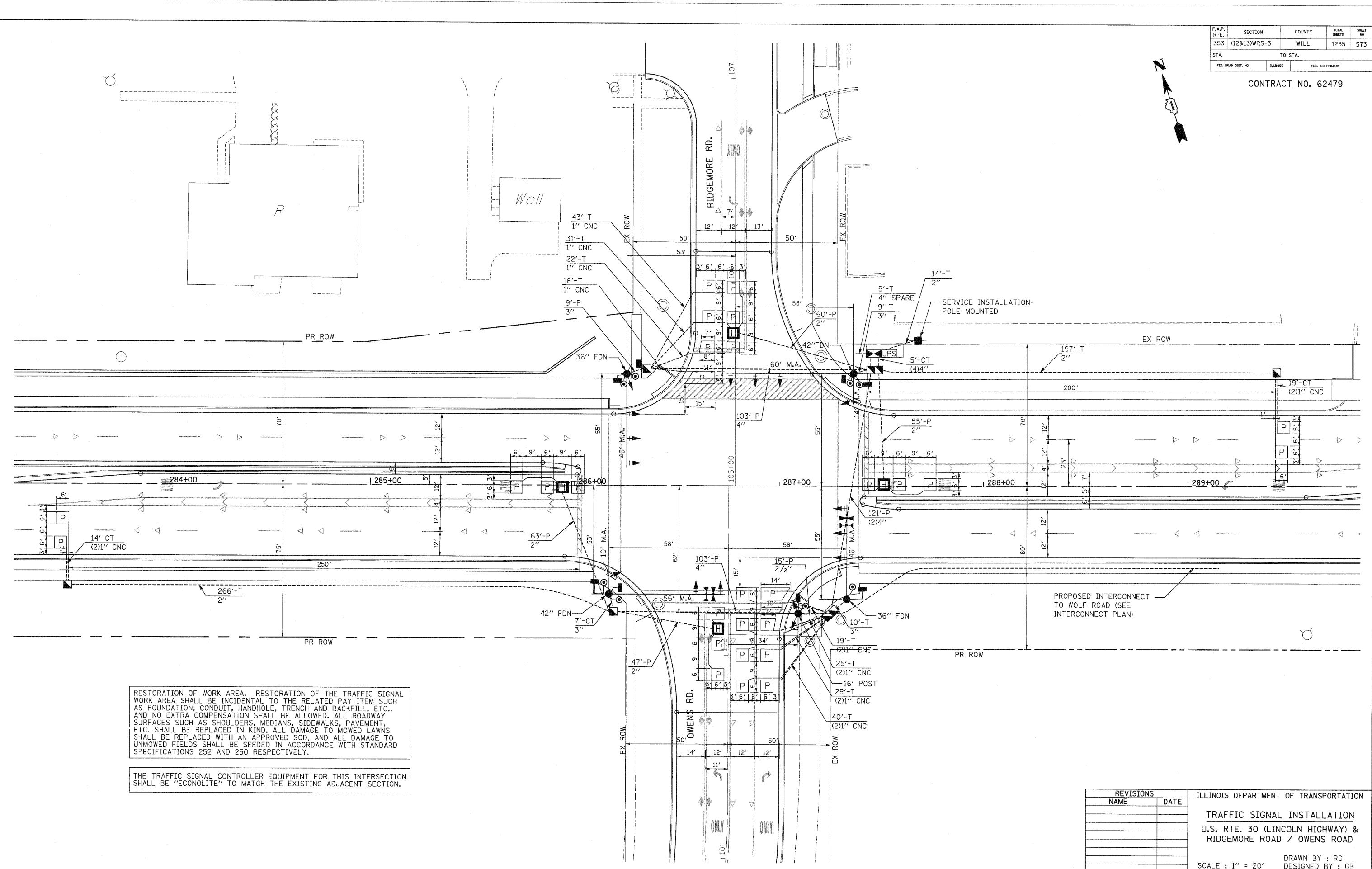
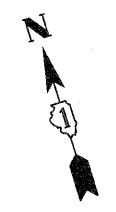
US RTE. 30 AT JOLIET/WEST CIRCLE

SCALE: 1" = NTS  
DATE: 10/12/2010

DRAWN BY: RG  
DESIGNED BY: GB  
CHECKED BY: ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	573
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



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

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SECTION.

PROPOSED INTERCONNECT TO WOLF ROAD (SEE INTERCONNECT PLAN)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INSTALLATION**  
 U.S. RTE. 30 (LINCOLN HIGHWAY) &  
 RIDGEMOOR ROAD / OWENS ROAD  
 SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH



F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	574
STA.	TO STA.			
FED. ROAD DIST. NO.	BLINKS	FED. AID PROJECT		

CONTRACT NO. 62479

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	MOKENA QUANTITY	FPD QUANTITY*
SIGN PANEL - TYPE 1	SQ FT	13.5	
SIGN PANEL - TYPE 2	SQ FT	50	
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	477	
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	26	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	25	
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	225	
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	24	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	448	
HANDHOLE	EACH	4	
HEAVY-DUTY HANDHOLE	EACH	4	
DOUBLE HANDHOLE	EACH	2	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	501	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1317	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1957	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1262	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1915	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2796	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	37	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	2	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 56 FT. AND 10 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 60 FT. AND 14 FT.	EACH	1	
CONCRETE FOUNDATION, TYPE A	FOOT	4	
CONCRETE FOUNDATION, TYPE C	FOOT	4	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26	
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7	
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	13	
INDUCTIVE LOOP DETECTOR	EACH	11	
* LIGHT DETECTOR	EACH		2
* LIGHT DETECTOR AMPLIFIER	EACH		1
PEDESTRIAN PUSH-BUTTON	EACH	8	
PREFORMED DETECTOR LOOP	FOOT	971	
FULL-ACTUATED CONTROLLER AND CABINET (SPECIAL)	EACH	1	
SERVICE INSTALLATION - POLE MOUNTED	EACH	1	
UNINTERRUPTABLE POWER SUPPLY	EACH	1	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	858	
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT		584

\* 100% COST OF THE FRANKFORT FIRE PROTECTION DISTRICT

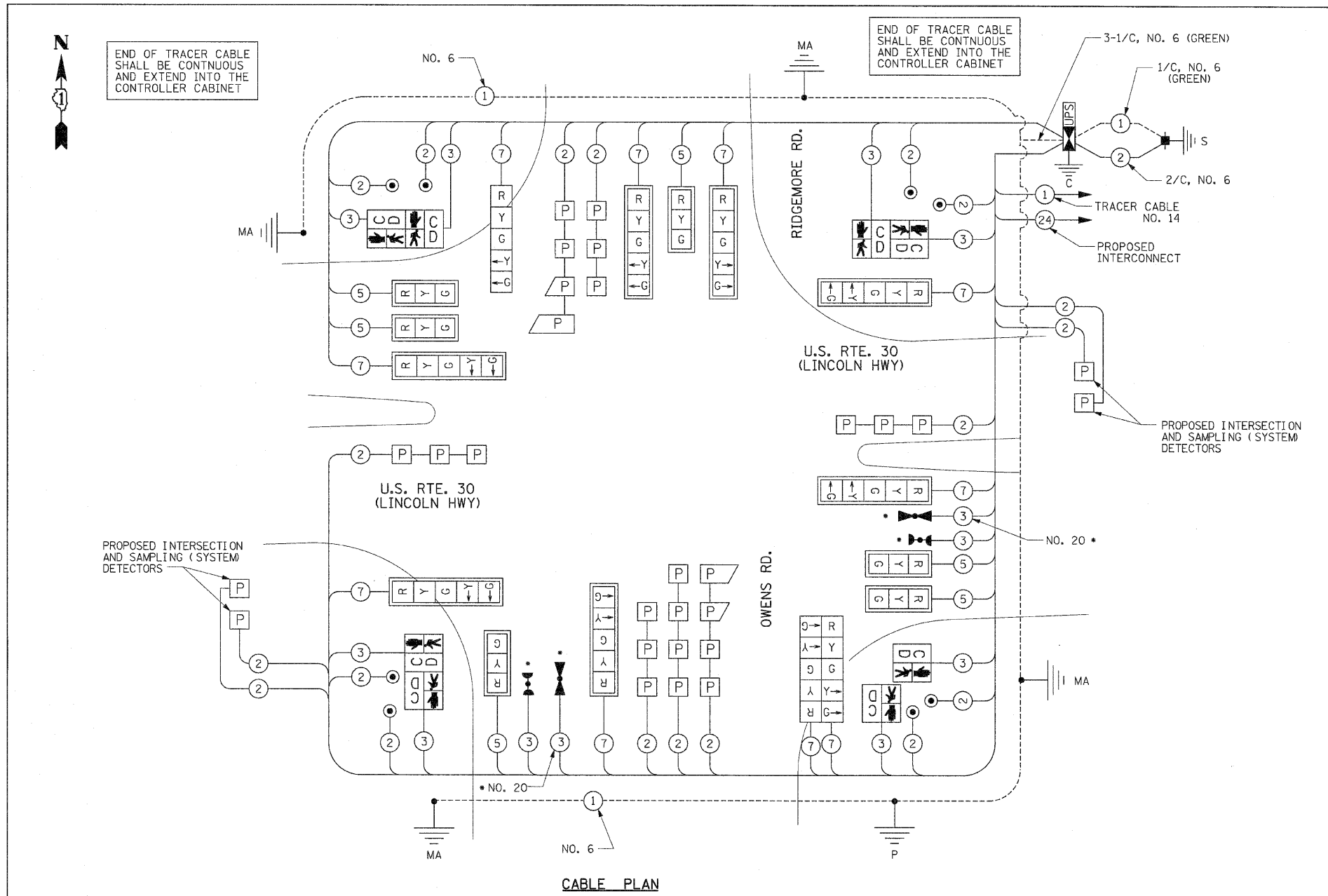
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL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

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

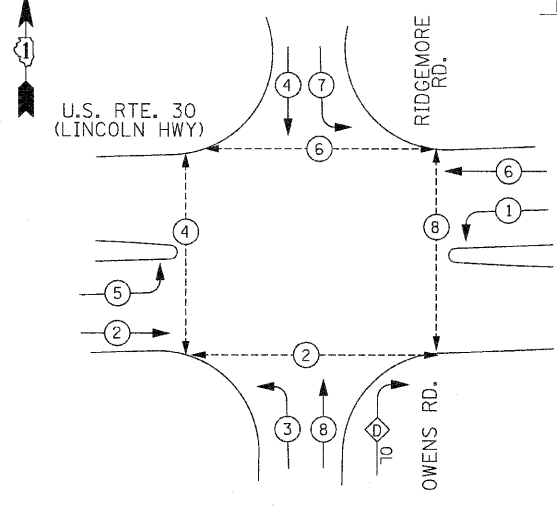
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION, SCHEDULE OF QUANTITIES
NAME	DATE	
		US RTE. 30 AT RIDGEMORE / OWENS

SCALE : 1" = NTS  
DATE : 10/12/2010

DRAWN BY : RG  
DESIGNED BY : GB  
CHECKED BY : ZH

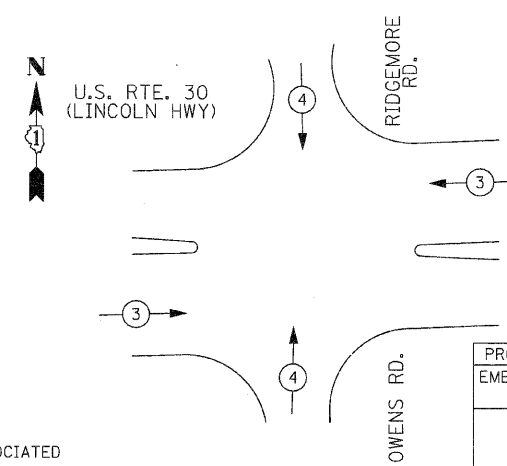


**CONTROLLER SEQUENCE**



OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

**PHASE DESIGNATION DIAGRAM  
EMERGENCY VEHICLE PREEMPTION SEQUENCE**

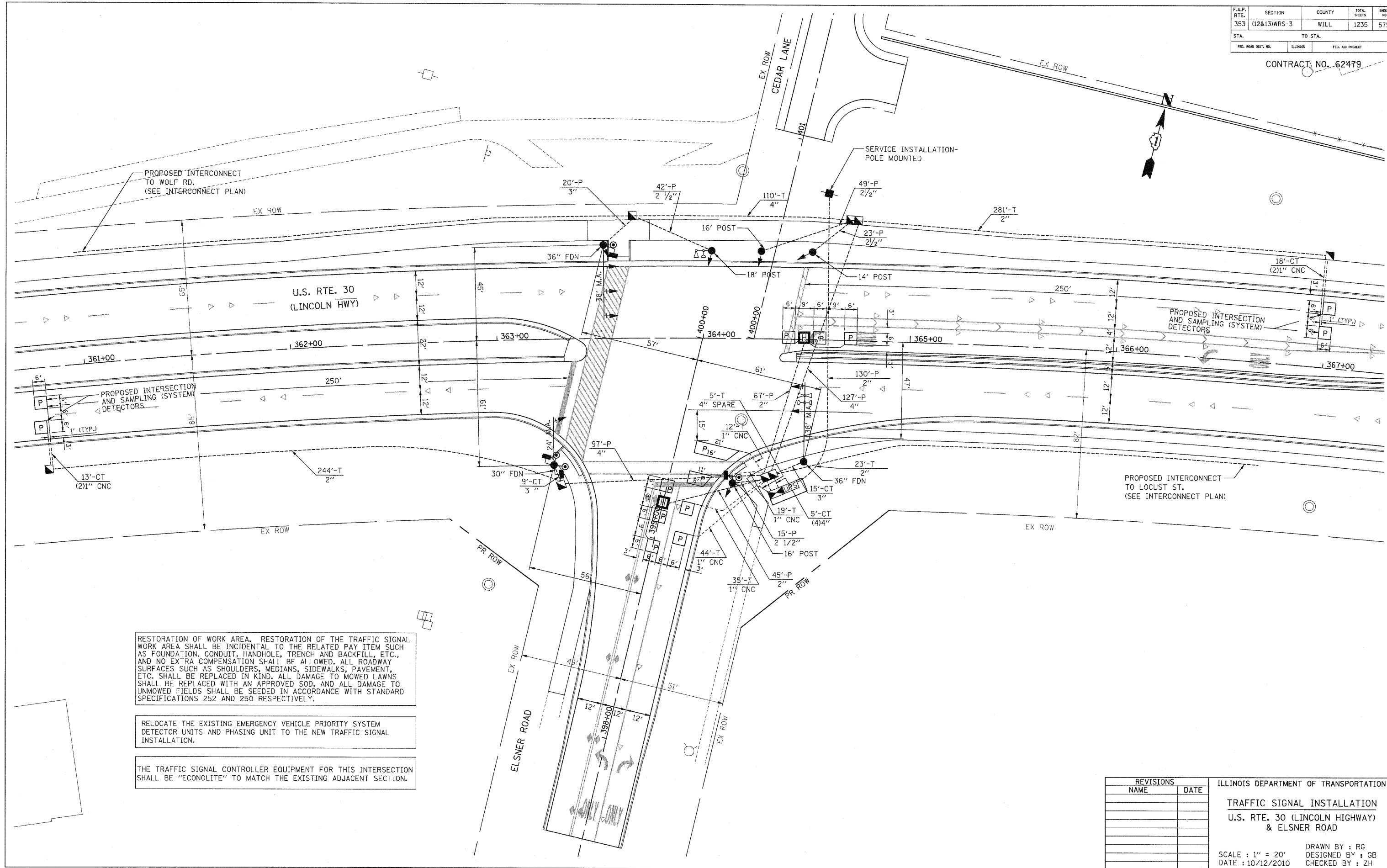


PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	← →	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	16		17	0.50	136
(YELLOW)	16		25	0.25	100
(GREEN)	16		15	0.25	60
ARROW	20		12	0.10	24
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25		
FLASHER					
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION					TOTAL = 620
201 WEST CENTER COURT					
SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: MARK ANDERSON					
PHONE: (815) 724-5988					
COMPANY: COM. ED.					

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	(12&13)WRS-3	WILL	1235	575
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



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

RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM DETECTOR UNITS AND PHASING UNIT TO THE NEW TRAFFIC SIGNAL INSTALLATION.

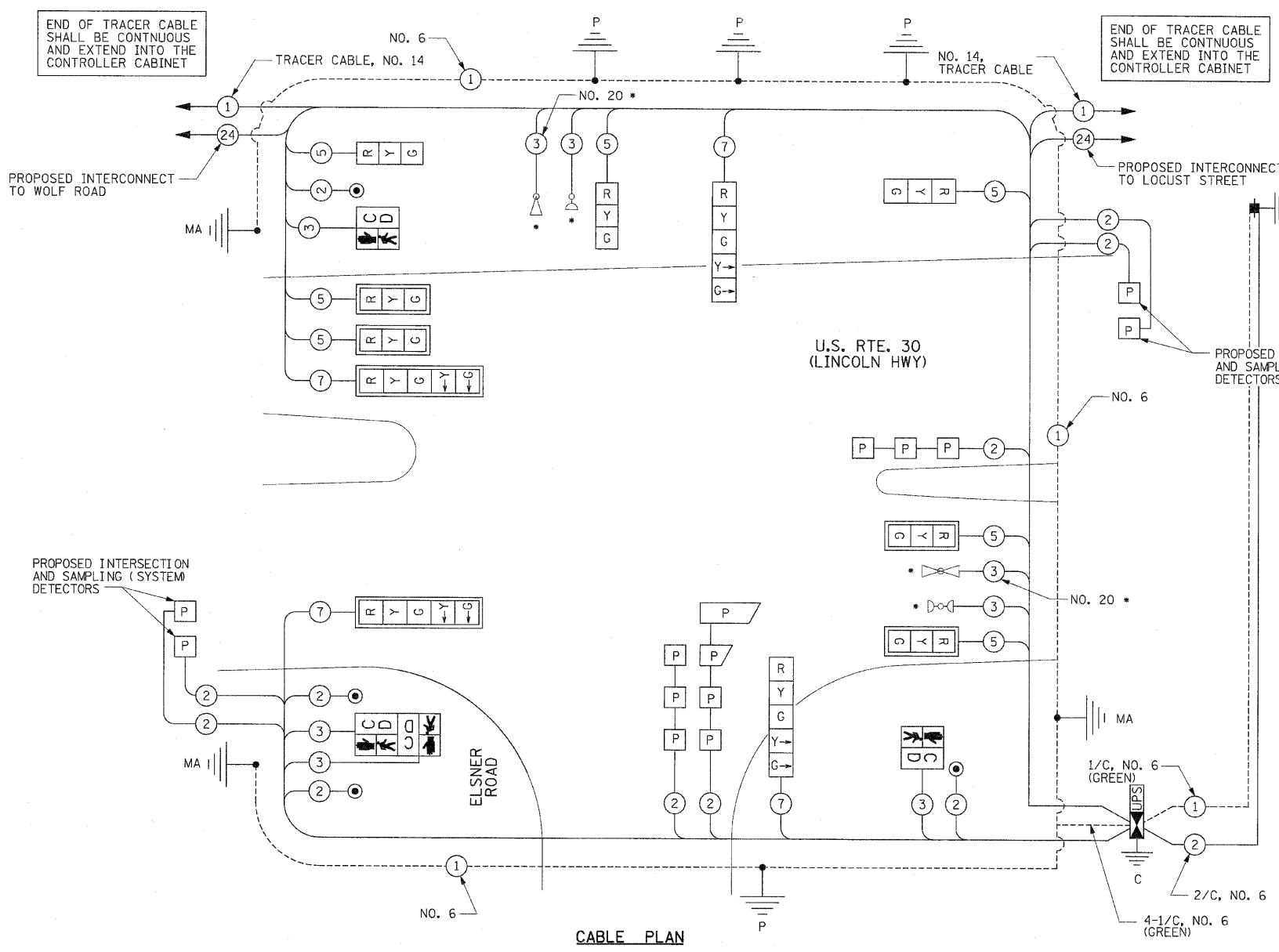
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SECTION.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>TRAFFIC SIGNAL INSTALLATION</b> <b>U.S. RTE. 30 (LINCOLN HIGHWAY)</b> <b>&amp; ELSNER ROAD</b>  SCALE: 1" = 20' DATE: 10/12/2010 DRAWN BY: RG DESIGNED BY: GB CHECKED BY: ZH

CONTRACT NO. 62479

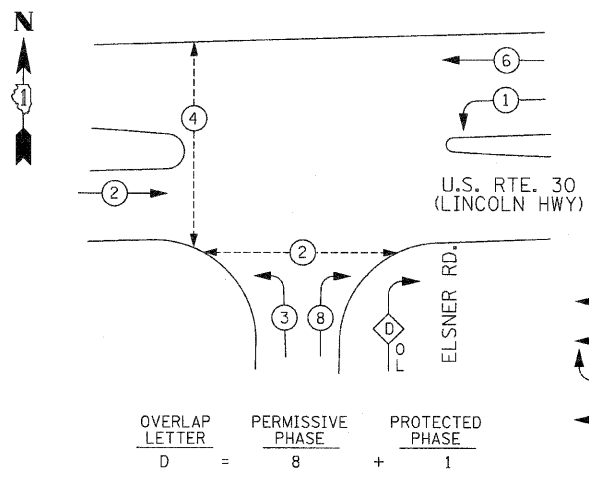
**SCHEDULE OF QUANTITIES**

ITEM	UNIT	FRANKFORT QUANTITY	EPD* QUANTITY
SIGN PANEL - TYPE 1	SQ FT	13.5	
SIGN PANEL - TYPE 2	SQ FT	15	
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	548	
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	24	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	135	
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	242	
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	129	
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	20	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	224	
HANDHOLE	EACH	4	
HEAVY-DUTY HANDHOLE	EACH	2	
DOUBLE HANDHOLE	EACH	2	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	668	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	696	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1138	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1053	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1523	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1810	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	176	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2	
CONCRETE FOUNDATION, TYPE A	FOOT	16	
CONCRETE FOUNDATION, TYPE C	FOOT	4	
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6	
INDUCTIVE LOOP DETECTOR	EACH	7	
PEDESTRIAN PUSH-BUTTON	EACH	4	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH		2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH		1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
REMOVE EXISTING HANDHOLE	EACH	8	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	
PREFORMED DETECTOR LOOP	FOOT	473	
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	
FULL-ACTUATED CONTROLLER AND CABINET (SPECIAL)	EACH	1	
SERVICE INSTALLATION - POLE MOUNTED	EACH	1	
UNINTERRUPTABLE POWER SUPPLY	EACH	1	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	858	
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT		433

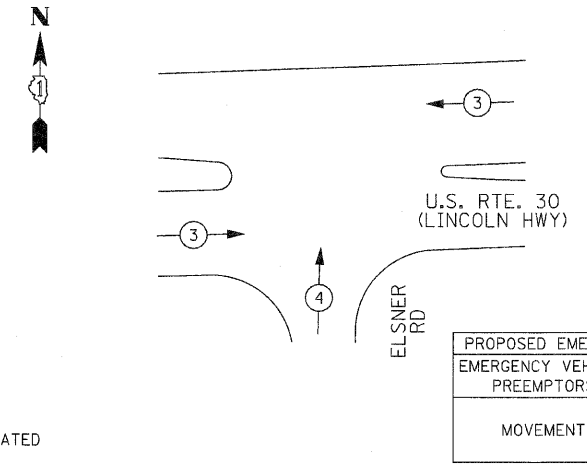


**CABLE PLAN**

**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM  
EMERGENCY VEHICLE PREEMPTION SEQUENCE**



\* 100% COST TO THE FRANKFORT FIRE PROTECTION DISTRICT

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	% OPERATION	
SIGNAL (RED)	11		17	0.50	93.5
(YELLOW)	11		25	0.25	68.75
(GREEN)	11		15	0.25	41.25
ARROW	8		12	0.10	9.6
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25		
FLASHER					
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION					TOTAL = 413.1
201 WEST CENTER COURT, SCHAMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: MARK ANDERSON					
PHONE: (815) 724-5988					
COMPANY: COM. ED.					

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

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

RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM DETECTOR UNITS AND PHASING UNIT TO THE NEW TRAFFIC SIGNAL INSTALLATION.

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION, SCHEDULE OF QUANTITIES

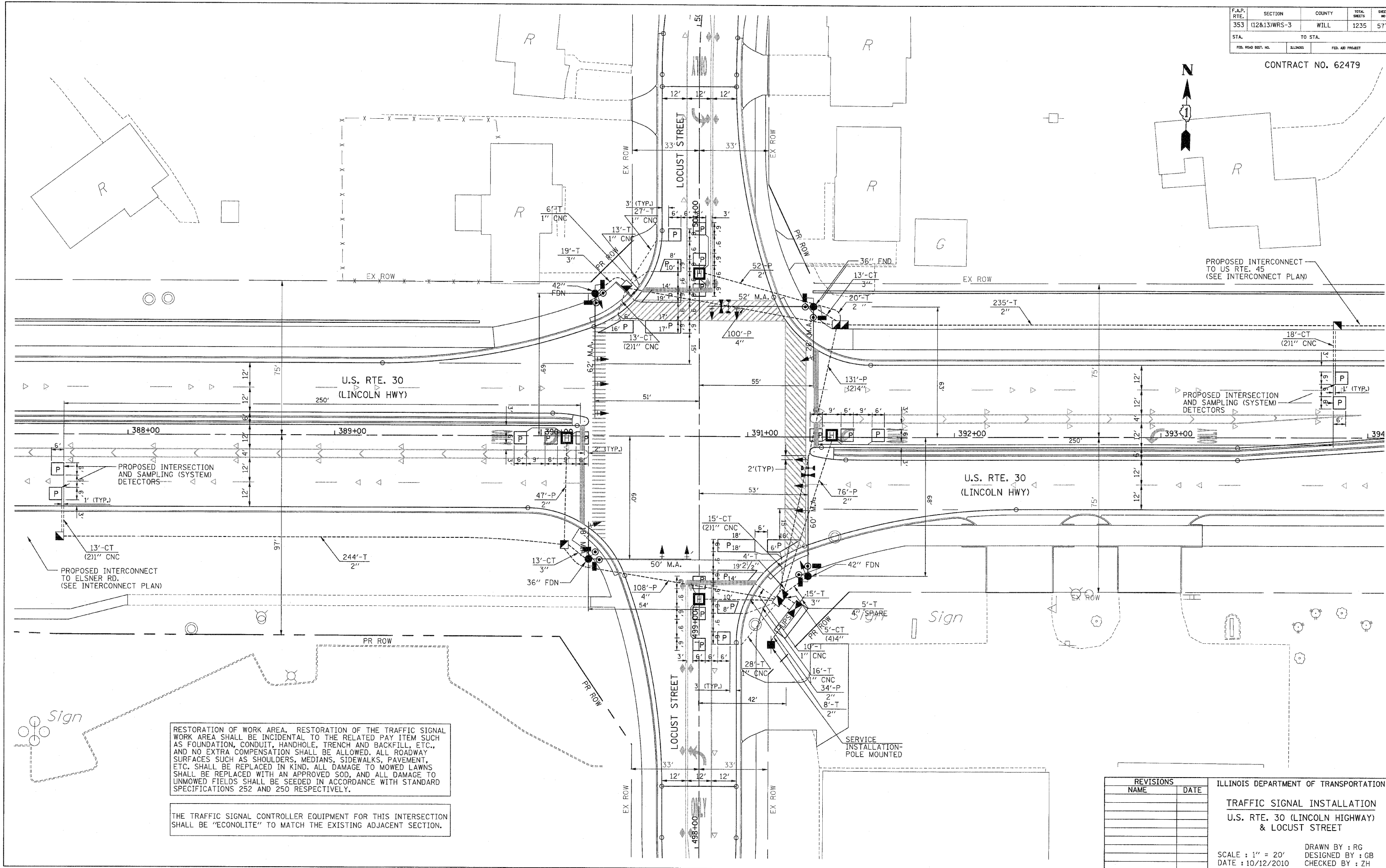
**US RTE. 30 AT ELSNER ROAD**

SCALE: 1" = NTS  
DATE: 10/12/2010

DRAWN BY: RG  
DESIGNED BY: GB  
CHECKED BY: ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	577
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



PROPOSED INTERCONNECT TO US RTE. 45 (SEE INTERCONNECT PLAN)

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROPOSED INTERCONNECT TO ELSNER RD. (SEE INTERCONNECT PLAN)

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

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SECTION.

SERVICE INSTALLATION- POLE MOUNTED

Sign

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SIGNAL INSTALLATION  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 & LOCUST STREET

SCALE : 1" = 20'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

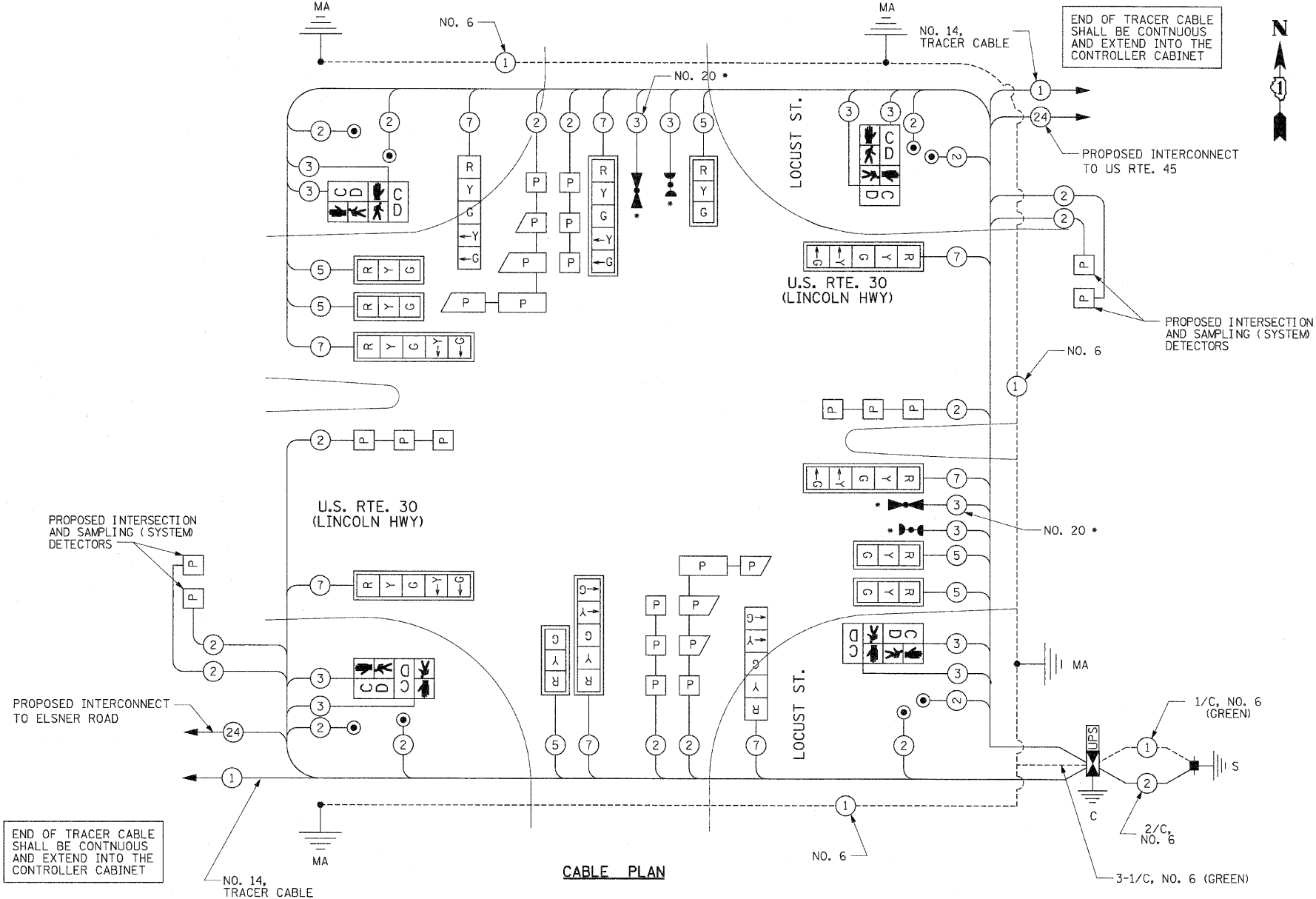
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	578
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

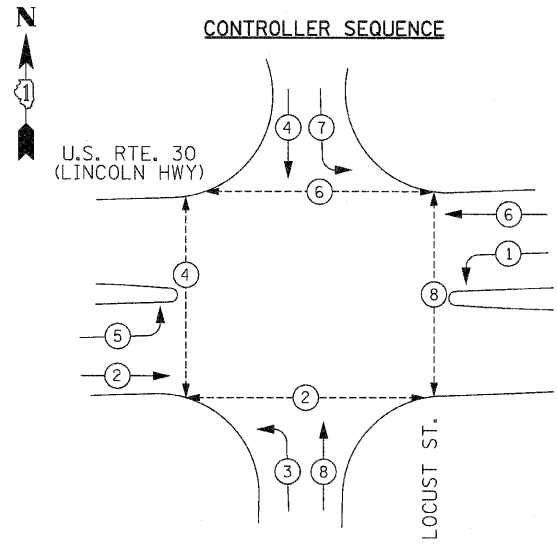
**SCHEDULE OF QUANTITIES**

ITEM	UNIT	FRANKFORT QUANTITY	FPD* QUANTITY
SIGN PANEL - TYPE 1	SQ FT	13.5	
SIGN PANEL - TYPE 2	SQ FT	30	
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	507	
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	60	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	25	
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	209	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	470	
HANDHOLE	EACH	4	
HEAVY-DUTY HANDHOLE	EACH	4	
DOUBLE HANDHOLE	EACH	2	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	546	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1406	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1831	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1377	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1760	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2412	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	31	
STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 50 FT. AND 18 FT.	EACH	1	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 52 FT. AND 26 FT.	EACH	1	
CONCRETE FOUNDATION, TYPE C	FOOT	4	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	32	
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6	
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12	
INDUCTIVE LOOP DETECTOR	EACH	10	
* LIGHT DETECTOR	EACH		2
* LIGHT DETECTOR AMPLIFIER	EACH		1
PEDESTRIAN PUSH-BUTTON	EACH	8	
PREFORMED DETECTOR LOOP	FOOT	956	
FULL ACTUATED CONTROLLER AND CABINET (SPECIAL)	EACH	1	
SERVICE INSTALLATION - POLE MOUNTED	EACH	1	
UNINTERRUPTIBLE POWER SUPPLY	EACH	1	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	723	
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT		369

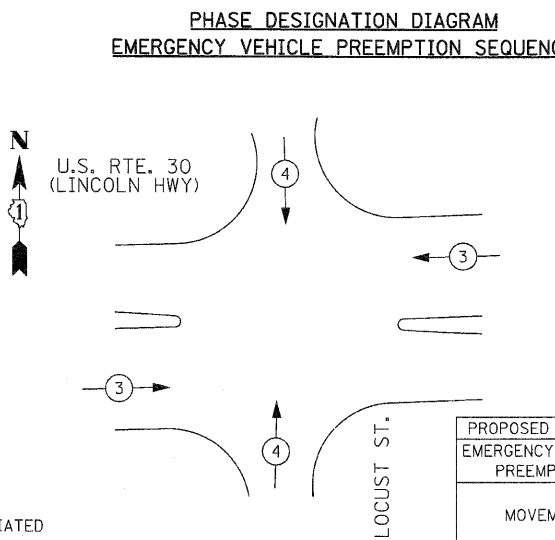
\* - 100% COST TO THE FRANKFORT FIRE PROTECTION DISTRICT



**CABLE PLAN**



**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM  
EMERGENCY VEHICLE PREEMPTION SEQUENCE**

- LEGEND
- ⊛ DUAL ENTRY PHASE
  - ⊠ SINGLE ENTRY PHASE
  - ⊔ OL OVERLAP
  - ⊙ PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

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

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

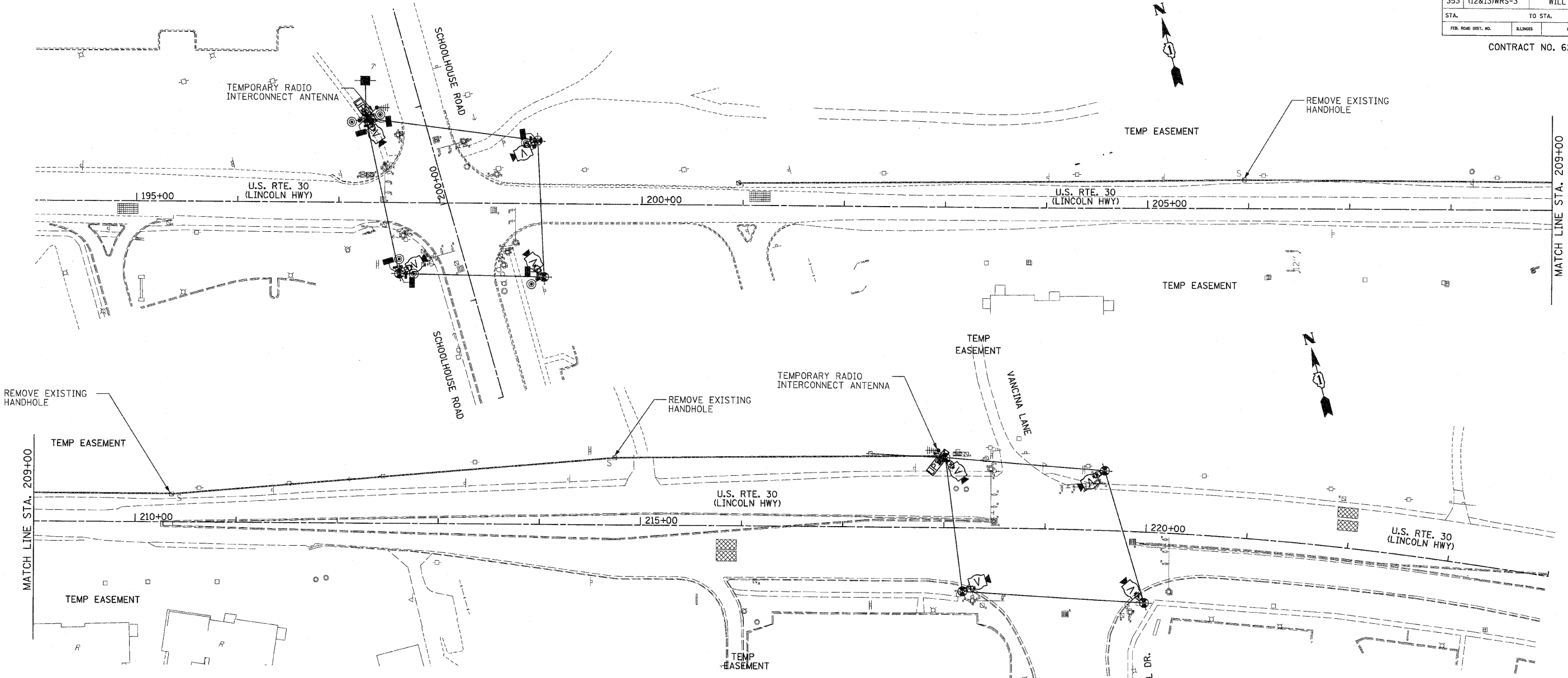
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	14	17		0.50	119
(YELLOW)	14	25		0.25	87.5
(GREEN)	14	15		0.25	52.5
ARROW	16	12		0.10	19.2
PED. SIGNAL	8	25		1.00	200
CONTROLLER	1	100		1.00	100
ILLUM. SIGN		25			
FLASHER					
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096 CONTACT: MARK ANDERSON PHONE: (815) 724-5988 COMPANY: COM. ED.					TOTAL = 578.2

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION, SCHEDULE OF QUANTITIES
NAME	DATE	
		US RTE. 30 AT LOCUST STREET
		SCALE: 1" = NTS
		DATE: 10/12/2010
		DRAWN BY: RG
		DESIGNED BY: GB
		CHECKED BY: ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	578A
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479

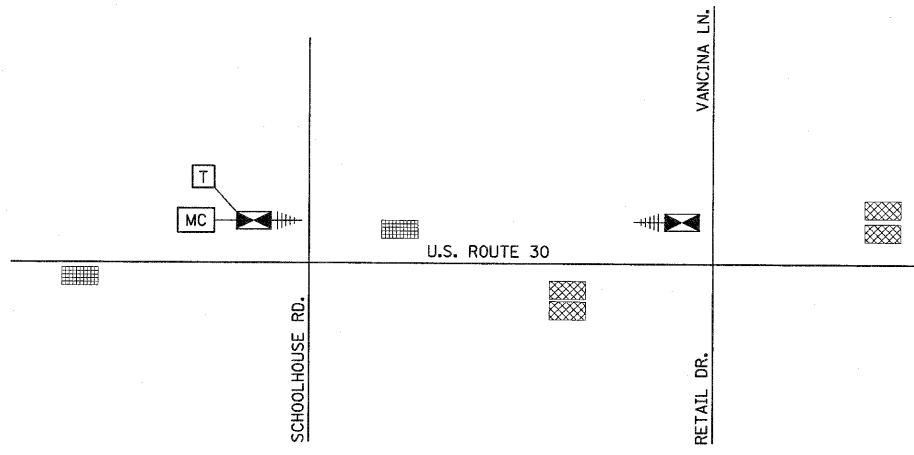


**TEMPORARY SYSTEM INTERCONNECT**

NOTES:

1. ALL WORK SPECIFIED IN THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT PLAN SHALL BE COMPLETED ACCORDING TO IDOT STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2007, AND DISTRICT ONE TRAFFIC SIGNAL SPECIFICATIONS EFFECTIVE OCTOBER 28, 2009.
2. THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT SYSTEM BETWEEN THE INTERSECTION OF SCHOOLHOUSE RD. AND VANCINA LN. SHALL BE WIRELESS INTERCONNECT ACCORDING TO THE TEMPORARY TRAFFIC SIGNAL SPECIFICATION OF THE DISTRICT ONE TRAFFIC SIGNAL SPECIFICATIONS.
3. ALL NECESSARY CABLES, ANTENNA, AND OTHER COMPONENTS REQUIRED FOR FULLY FUNCTIONAL TEMPORARY RADIO INTERCONNECT SYSTEM SHALL BE INCLUDED AND PAID FOR AS THE ITEM TEMPORARY TRAFFIC SIGNAL INTERCONNECT.
4. THE ANTENNA AND ALL CABLES SHALL BE REMOVED UPON COMPLETION OF THE PROPOSED FIBER OPTIC INTERCONNECT SYSTEM.

THE TEMPORARY TRAFFIC SIGNAL EQUIPMENT FOR SCHOOLHOUSE RD. AND VANCINA LN./RETAIL DR. SHALL BE MATCHED.



**TEMPORARY INTERCONNECT SCHEMATIC**

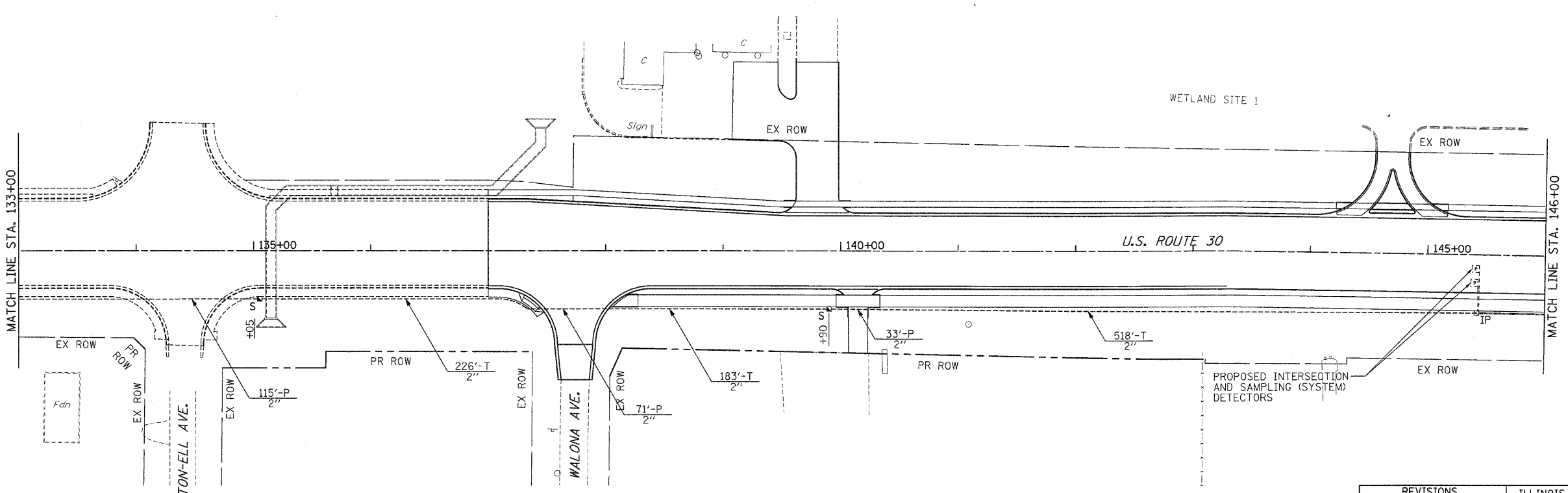
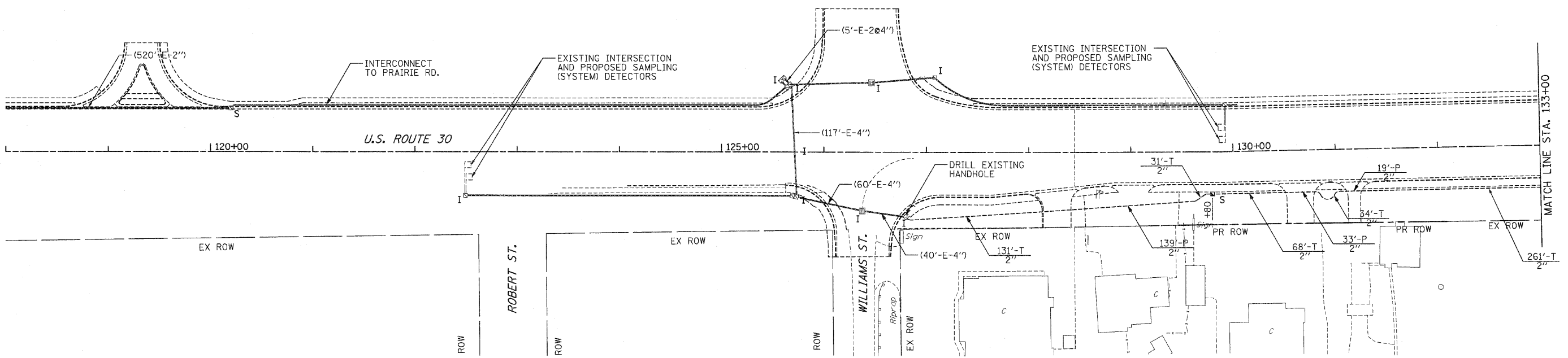
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY SYSTEM INTERCONNECT & TEMPORARY INTERCONNECT SCHEMATIC U.S. RTE. 30 (LINCOLN HIGHWAY) STA. 194+00 TO STA. 224+00 SCALE : 1" = 50' DATE : 10/12/2010
NAME	DATE	
		DRAWN BY : RC DESIGNED BY : GB CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL.	1235	579
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



NOTE:  
SIGNALS AT WILLIAMS STREET  
BEING CONSTRUCTED BY PERMIT  
TO BE COMPLETED PRIOR  
TO THIS WORK BEING DONE.



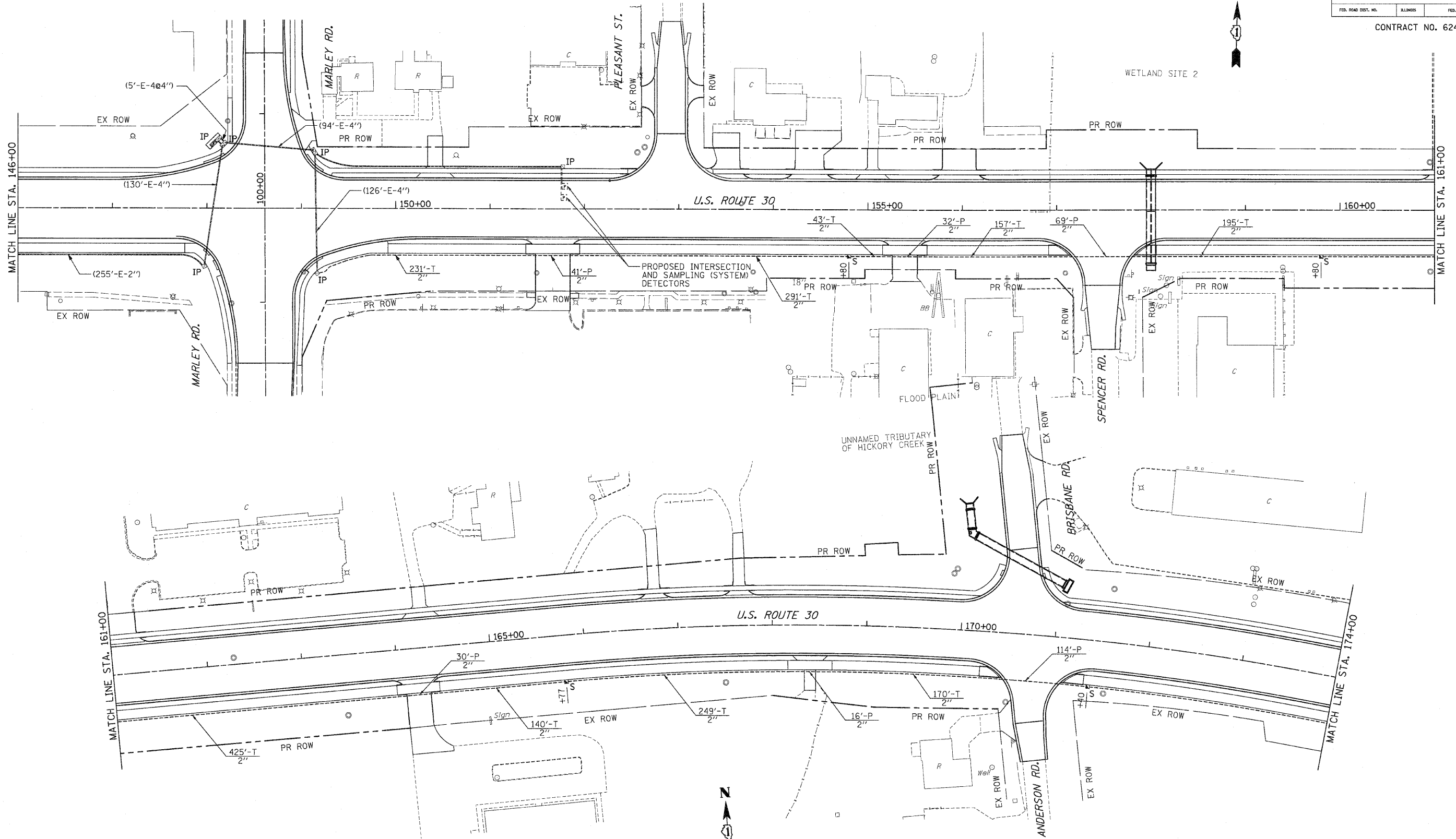
NOTE:  
THE TRAFFIC SIGNAL CONTROLLER  
EQUIPMENT FOR THIS PROJECT SHALL  
BE "EAGLE" TO MATCH THE  
EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
U.S. RTE. 30 (LINCOLN HIGHWAY)  
STA. 118+00 TO STA. 146+00  
DRAWN BY : RG  
SCALE : 1" = 50'  
DATE : 10/12/2010  
DESIGNED BY : GB  
CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL.	1235	580
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



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

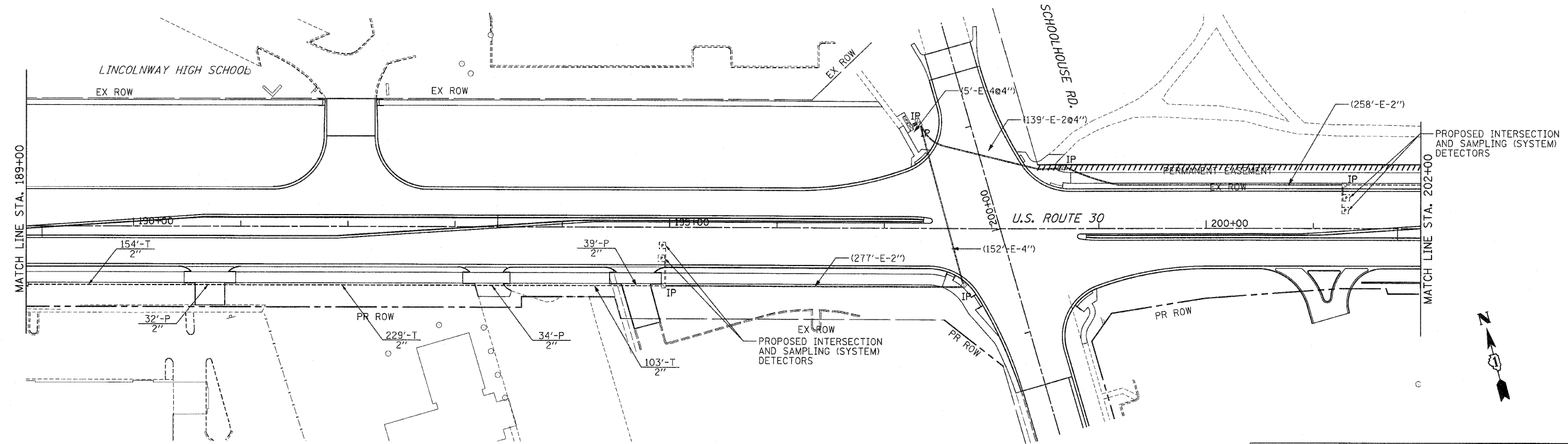
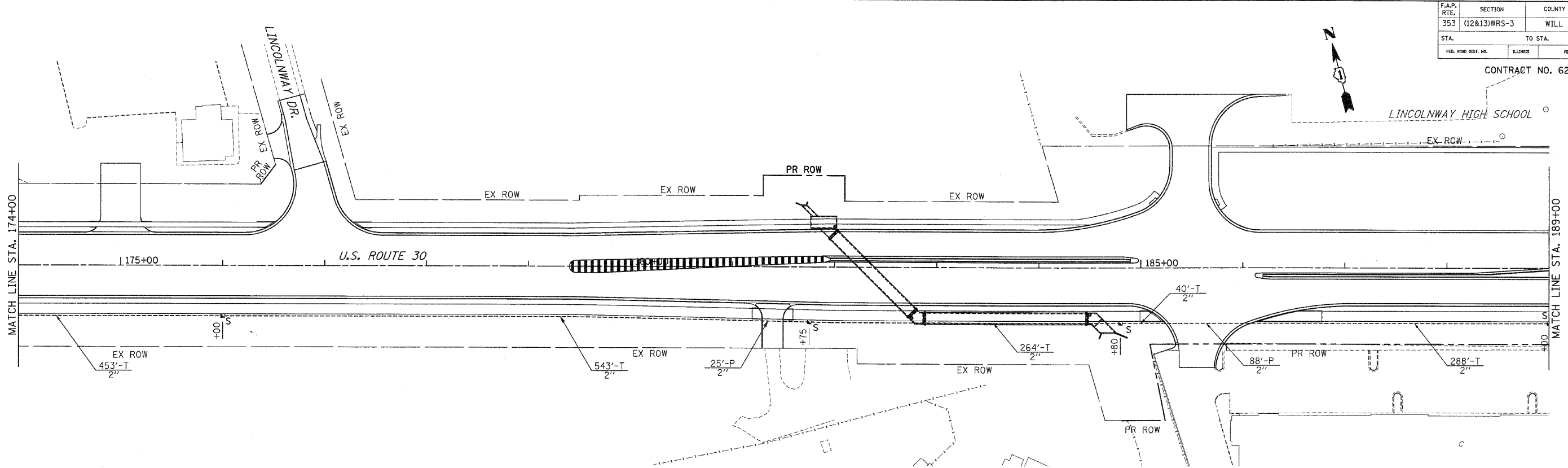
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
U.S. RTE. 30 (LINCOLN HIGHWAY)  
STA. 146+00 TO STA. 174+00  
DRAWN BY : RG  
DESIGNED BY : GB  
CHECKED BY : ZH  
SCALE : 1" = 50'  
DATE : 10/12/2010



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL.	1235	581
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



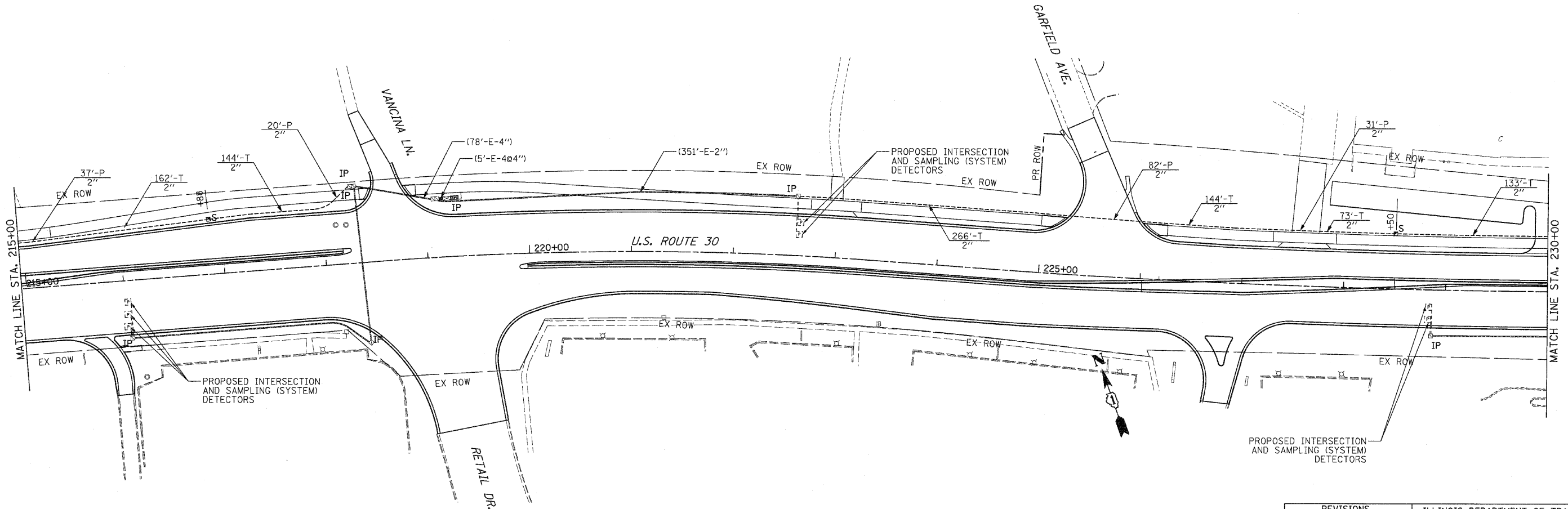
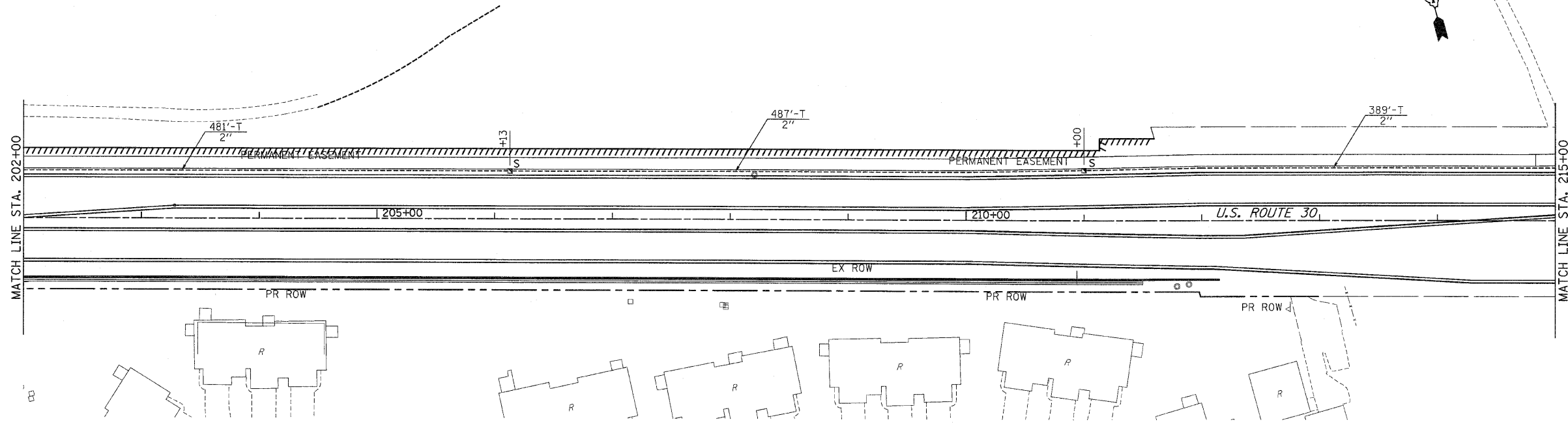
NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
 STA. 174+00 TO STA. 202+00  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH  
 SCALE : 1" = 50'  
 DATE : 10/12/2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	582
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



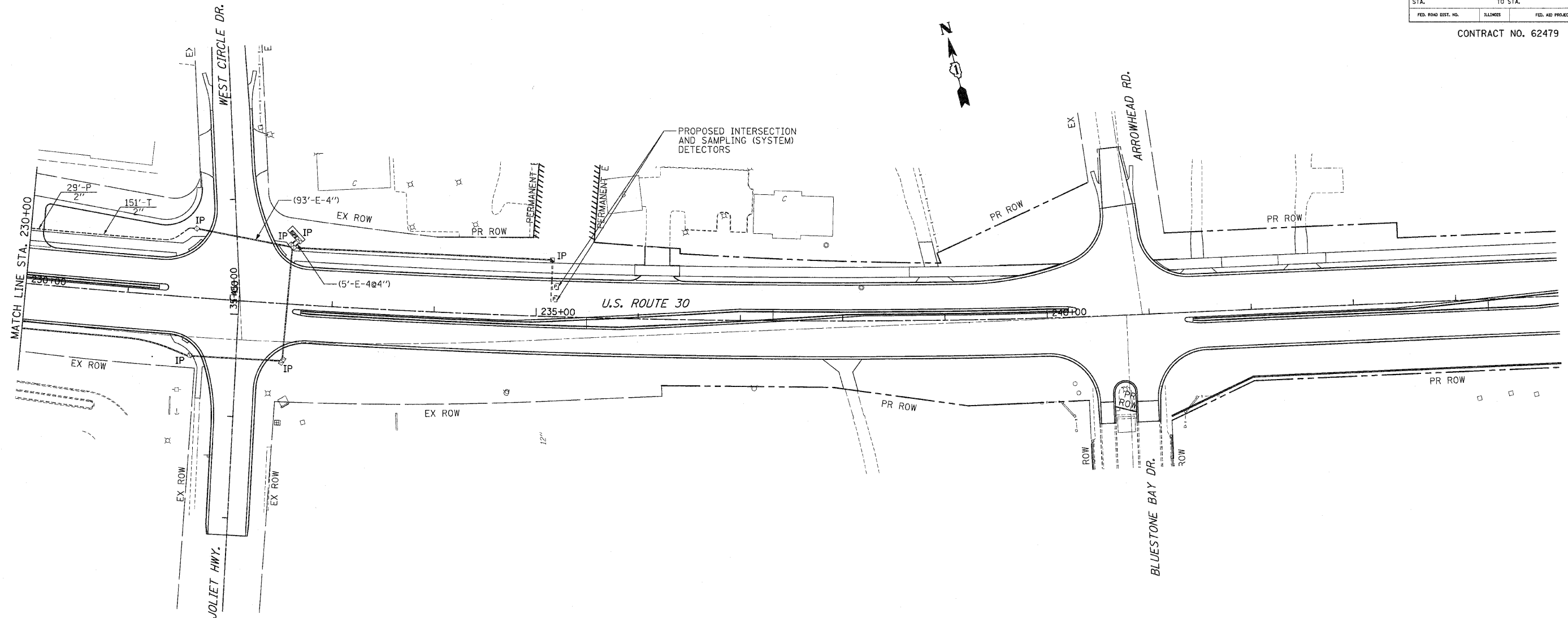
NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
 U.S. RTE. 30 (LINCOLN HIGHWAY)  
 STA. 202+00 TO STA. 230+00  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH  
 SCALE : 1" = 50'  
 DATE : 10/12/2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	583
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



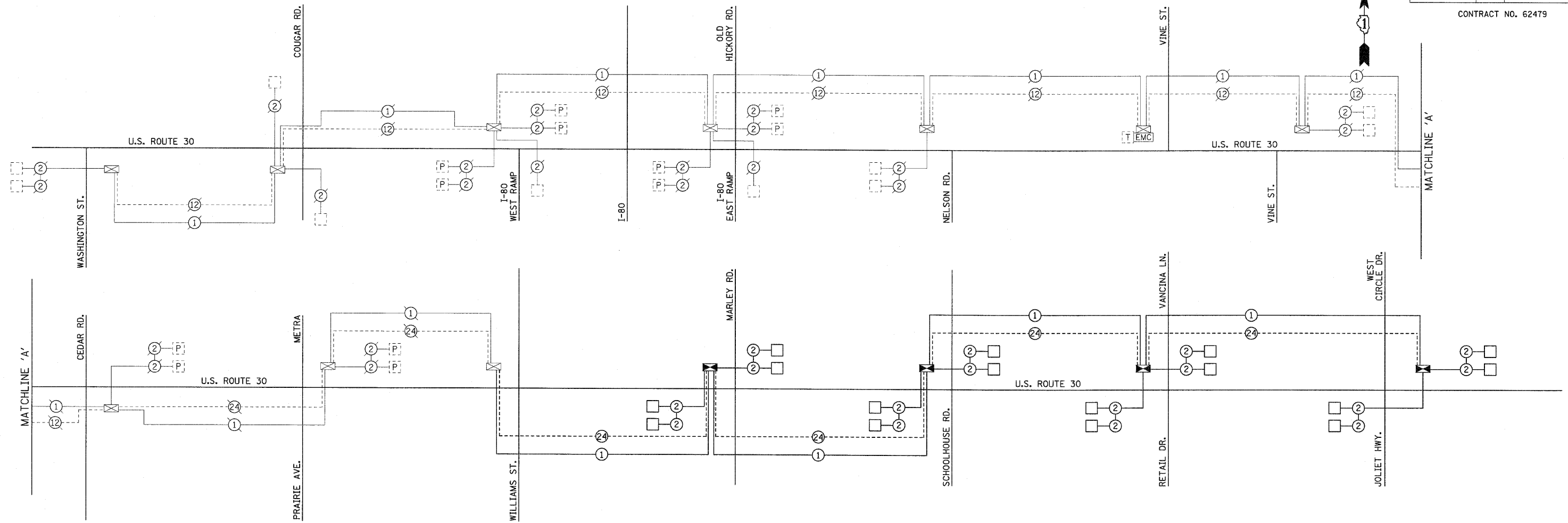
NOTE:  
 THE TRAFFIC SIGNAL CONTROLLER  
 EQUIPMENT FOR THIS PROJECT SHALL  
 BE "EAGLE" TO MATCH THE  
 EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
 STA. 230+00 TO STA. 245+00  
 SCALE : 1" = 50'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

F.A.P. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	584
STA.	TO STA.			
FED. ROAD DIST. NO.	LENGTH	FED. AID PROJECT		

CONTRACT NO. 62479



**SCHEDULE OF QUANTITIES**

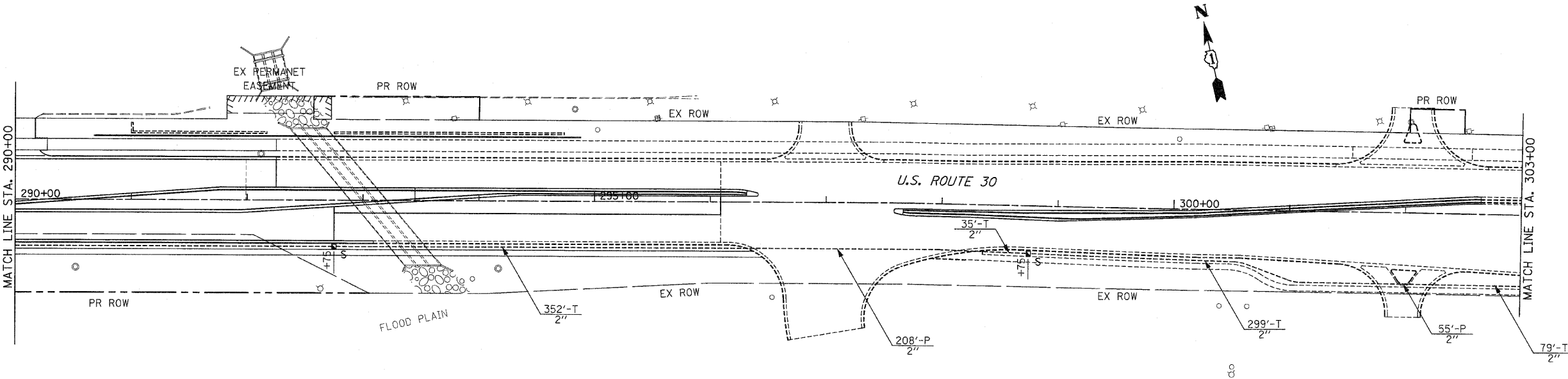
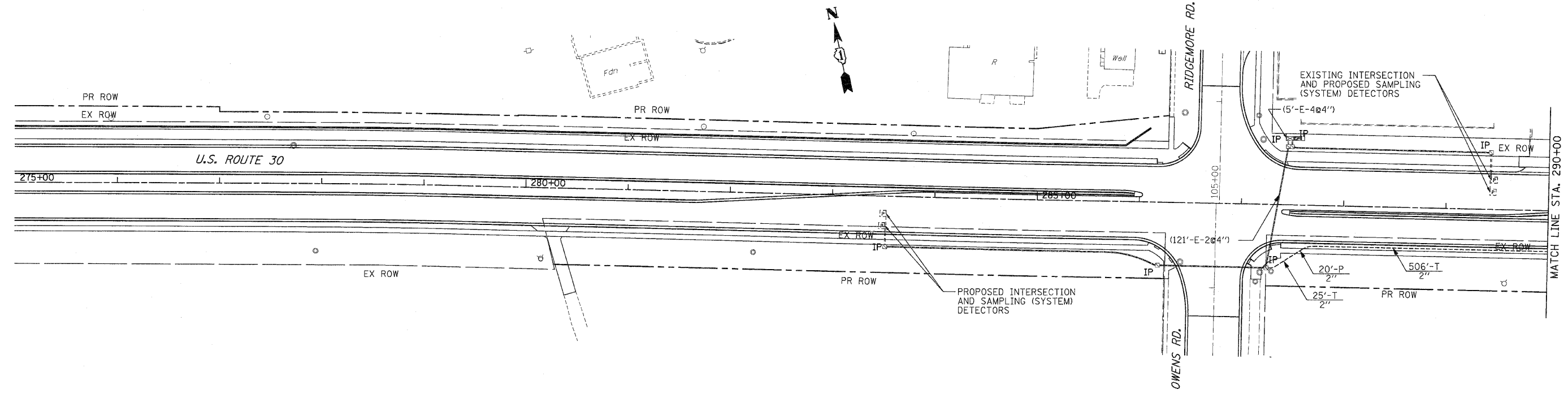
ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	7857
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1129
HANDHOLE	EACH	15
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	7857
TRANSCEIVER - FIBER OPTIC	EACH	4
DRILL EXISTING HANDHOLE	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	11497
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	11589

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

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION INTERCONNECT SCHEMATIC U. S. RTE. 30 (LINCOLN HWY.) WASHINGTON ST. TO JOLIET HWY.
NAME	DATE	
		SCALE : DATE : 10/12/2010 DRAWN BY : RG DESIGNED BY : GB CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	585
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



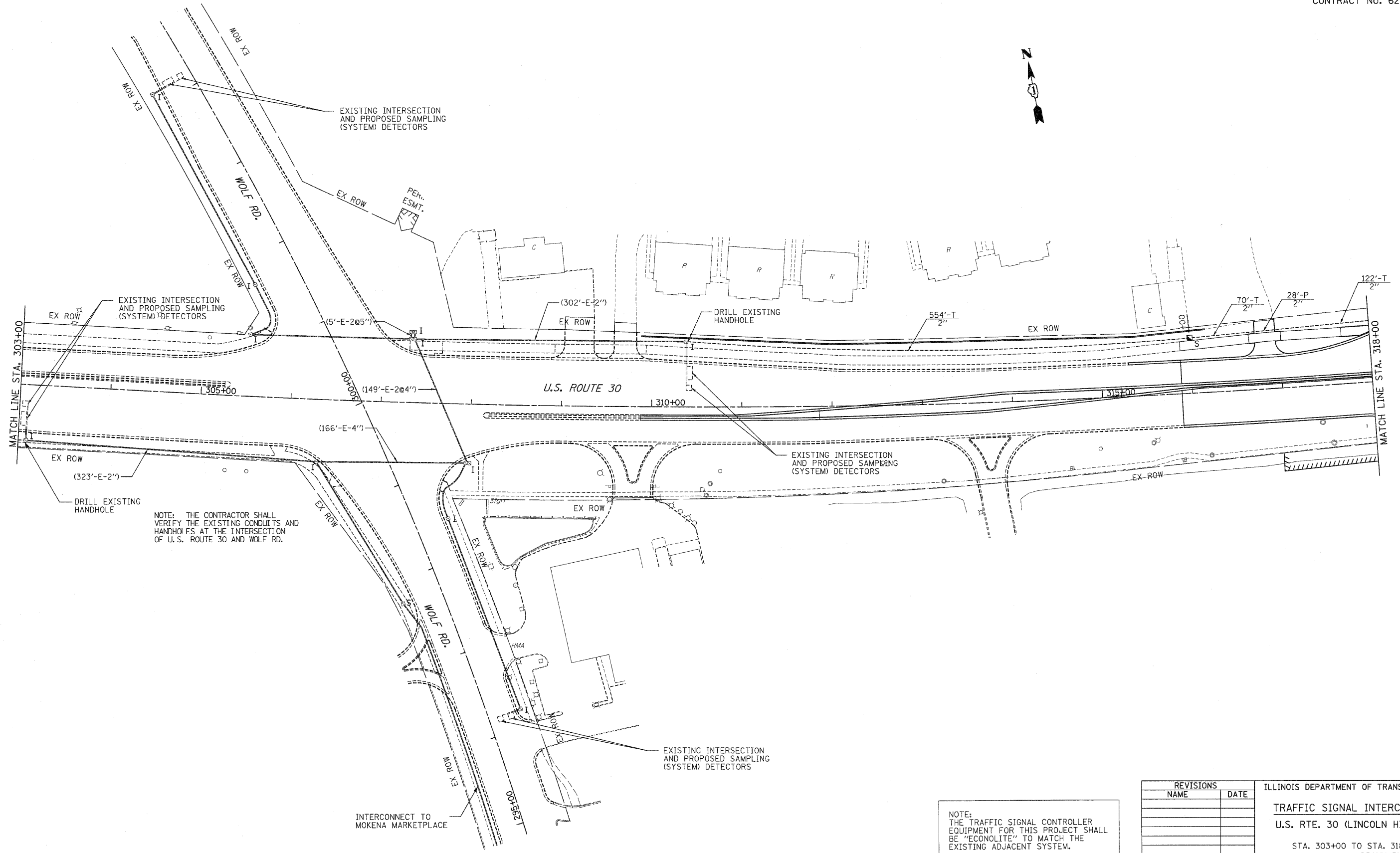
NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
 STA. 275+00 TO STA. 303+00  
 SCALE : 1" = 50'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

F.A.P. RYE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	586
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



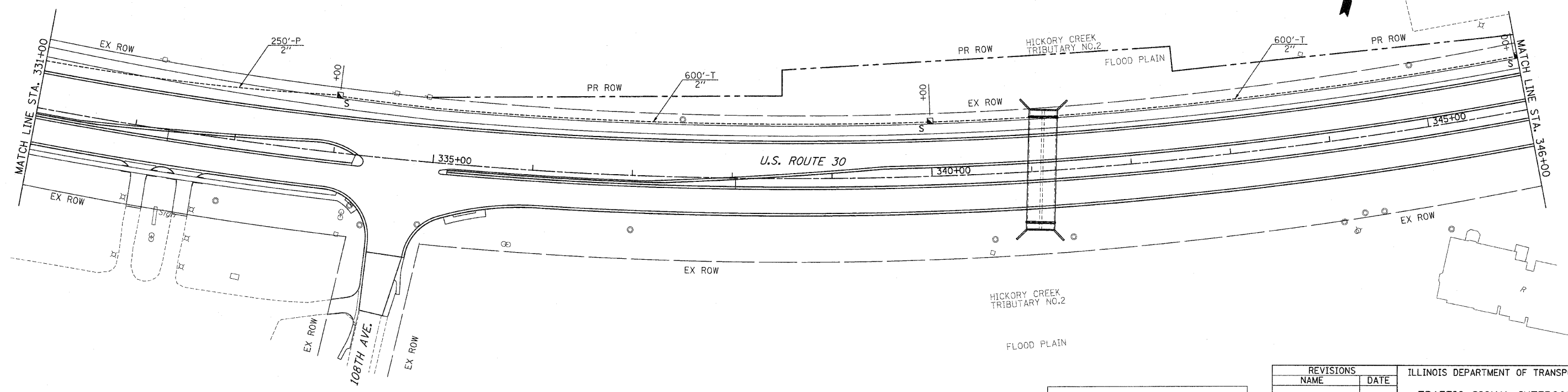
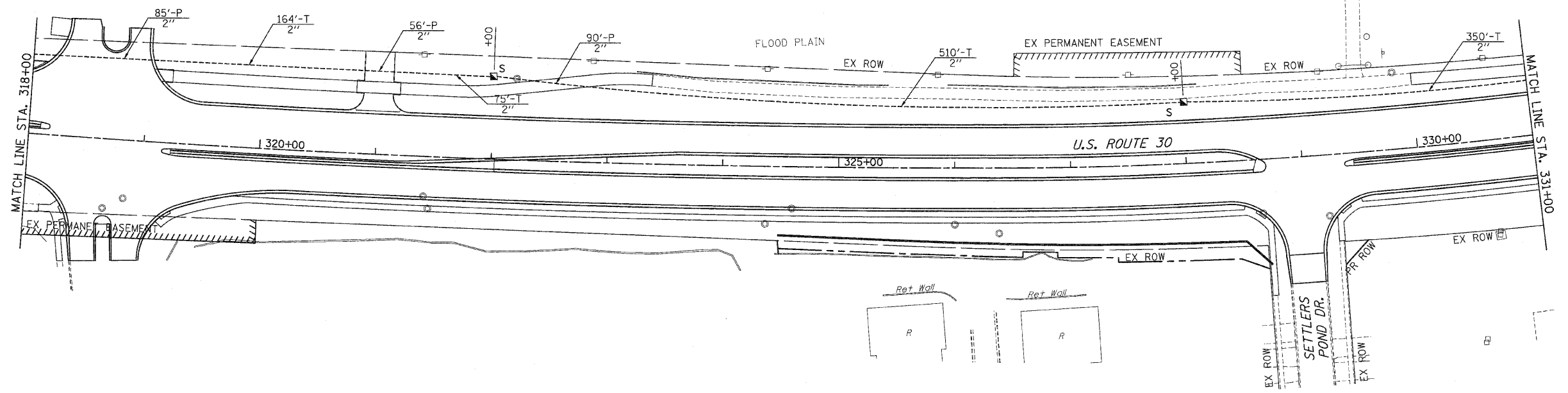
NOTE: THE CONTRACTOR SHALL VERIFY THE EXISTING CONDUITS AND HANDHOLES AT THE INTERSECTION OF U.S. ROUTE 30 AND WOLF RD.

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

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		TRAFFIC SIGNAL INTERCONNECT U.S. RTE. 30 (LINCOLN HIGHWAY)  STA. 303+00 TO STA. 318+00 DRAWN BY : RG DESIGNED BY : GB CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	587
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



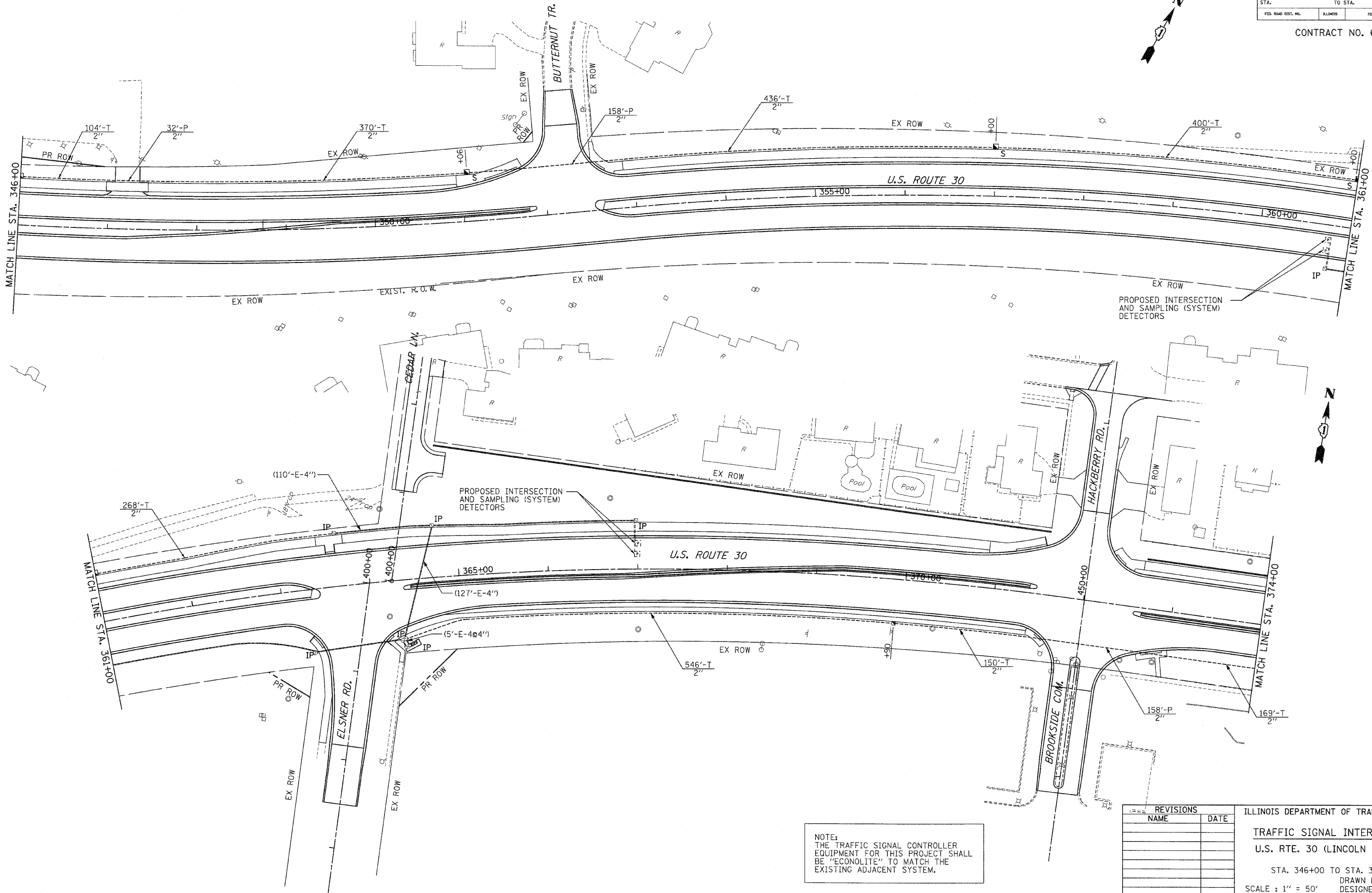
NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
 STA. 318+00 TO STA. 346+00  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH  
 SCALE : 1" = 50'  
 DATE : 10/12/2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	588
STA.	TO STA.			
FED. ROAD DIST. NO.	BLINDS	FED. AID PROJECT		

CONTRACT NO. 62479



REVISIONS	
NAME	DATE

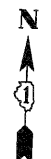
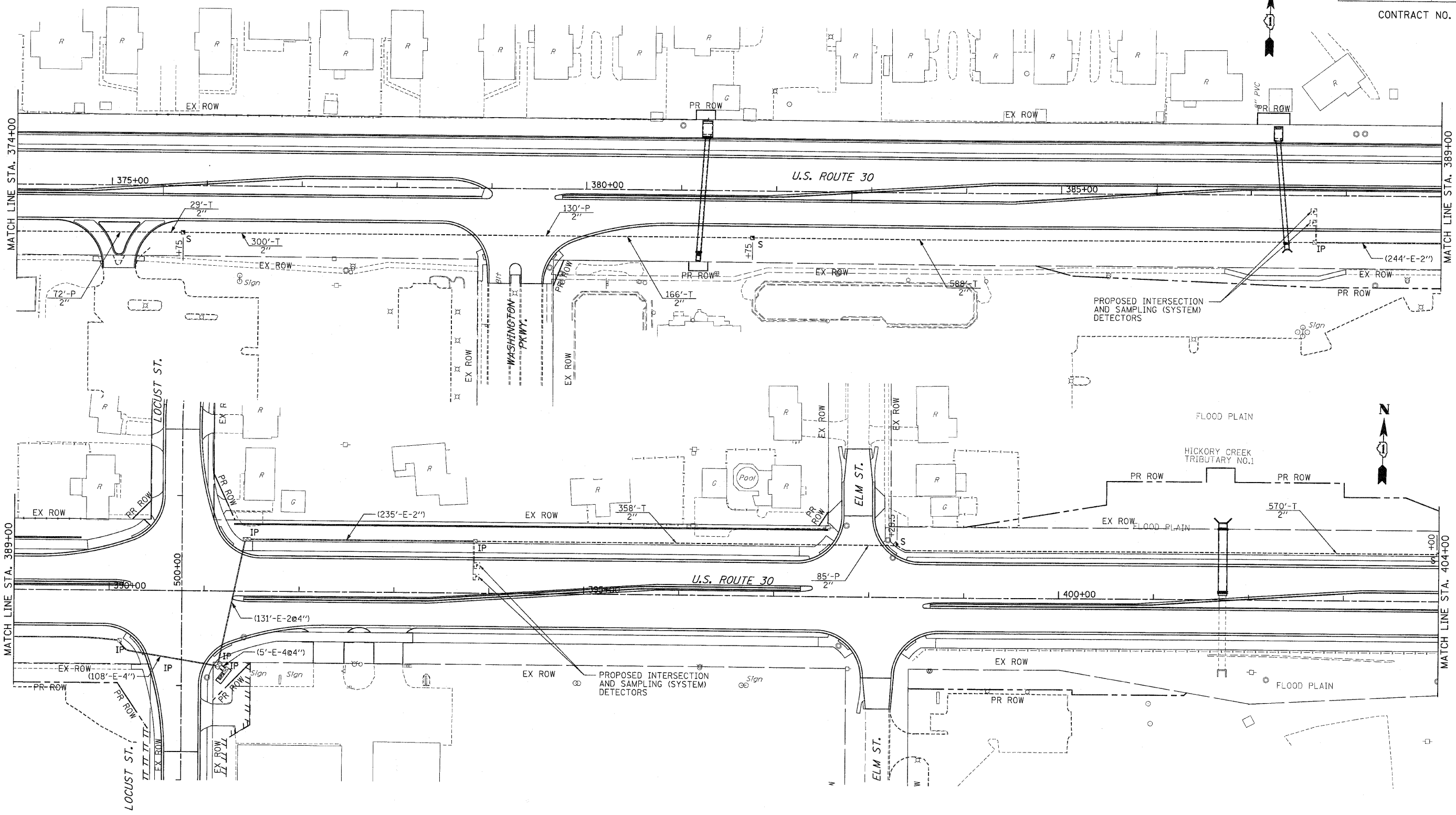
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
 STA. 346+00 TO STA. 374+00  
 SCALE : 1" = 50'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	589
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



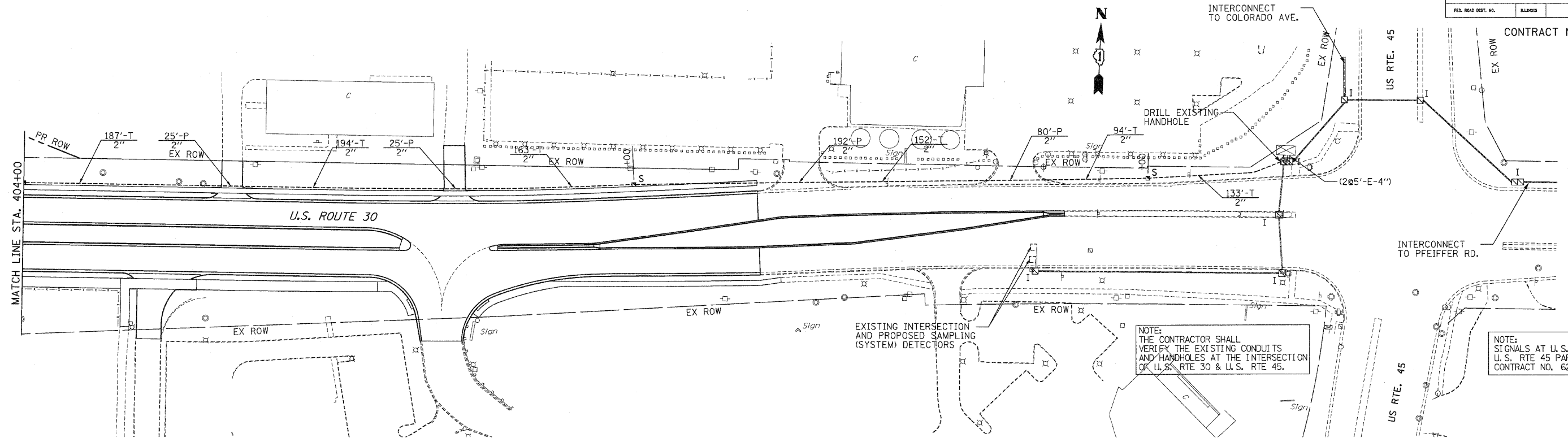
NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
 STA. 374+00 TO STA. 404+00  
 SCALE : 1" = 50'  
 DATE : 10/12/2010  
 DRAWN BY : RG  
 DESIGNED BY : GB  
 CHECKED BY : ZH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-3	WILL	1235	590
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62479



NOTE:  
THE CONTRACTOR SHALL  
VERIFY THE EXISTING CONDUITS  
AND HANDHOLES AT THE INTERSECTION  
OF U.S. RTE 30 & U.S. RTE 45.

NOTE:  
SIGNALS AT U.S. RTE 30 &  
U.S. RTE 45 PART OF IDOT  
CONTRACT NO. 62478

EXISTING INTERSECTION  
AND PROPOSED SAMPLING  
(SYSTEM) DETECTORS

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

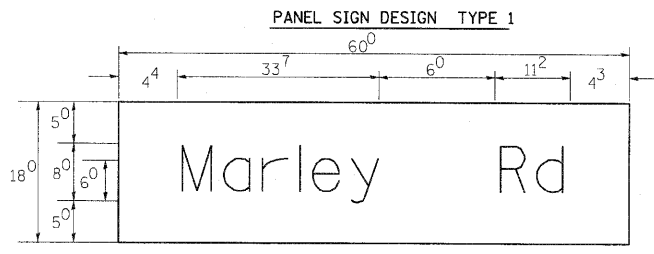
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL INTERCONNECT**  
**U.S. RTE. 30 (LINCOLN HIGHWAY)**  
  
STA. 404+00 TO STA. 419+00  
DRAWN BY : RG  
SCALE : 1" = 50'  
DATE : 10/12/2010  
DESIGNED BY : ZH  
CHECKED BY : ZH

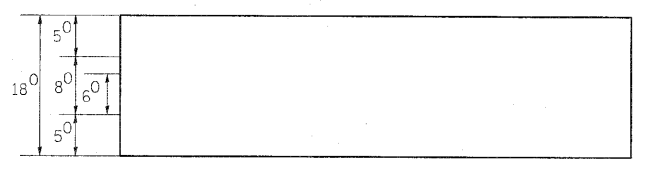


REF-  
REF-  
REF-

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353		WILL	1235	592
STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

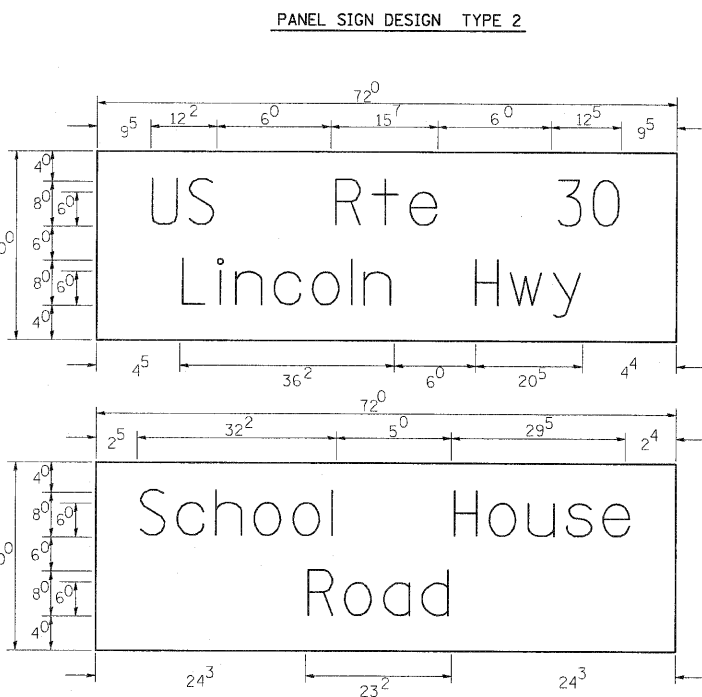


— Sq. M. each  
 7.5 Sq. Ft. each  
 2 Required  
 Design Series D



— Sq. M. each  
 15 Sq. Ft. each  
 13 Required  
 Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS



— Sq. M. each  
 15 Sq. Ft. each  
 2 Required  
 Design Series D

GENERAL NOTES

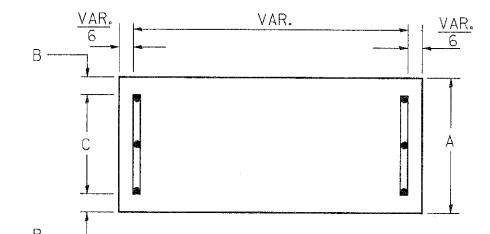
- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

\* J.O. HERBERT CO. MIDLOTHIAN, VA. \* WESTERN REMAC INC. WOODRIDGE, IL.

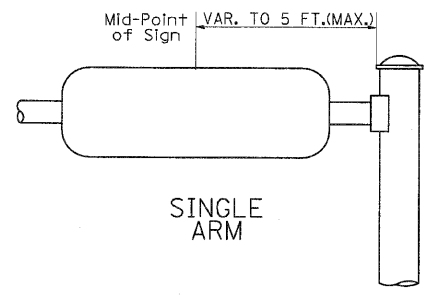
PARTS LISTING:  
 SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
 SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3  
 BRACKETS SELF TAPPING WITH NEOPRENE WASHER  
 PART #HPN034 (UNIVERSAL)  
 CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

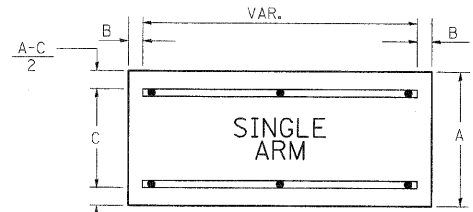
SUPPORTING CHANNELS



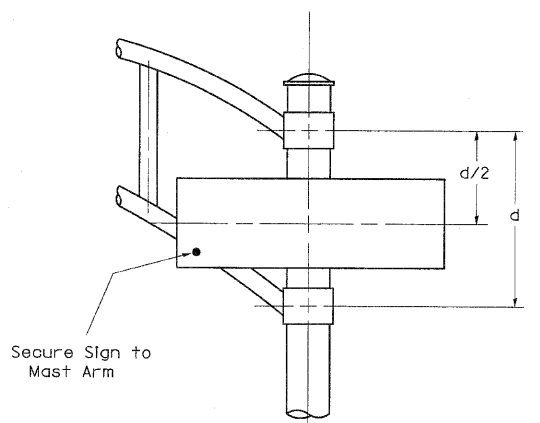
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



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



DUAL ARM

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

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

EXAMPLE, 2<sup>3</sup> DENOTES 3"/8"

FIRST LETTER	SECOND LETTER															
	a c d e		b h i k l		f w		j		s t		v y		x z			
	g o q	m n p r u														
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O Q R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>

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

FIRST LETTER	SECOND LETTER															
	a d h g i j		b f k o p s		c e		r		t z		v y		w		x	
	l m n q u															
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
adhgij	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
l m n q u																
b f k o p s	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
c e	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
r	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>3</sup>	0 <sup>3</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>
t z	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
v y	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
w	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
x	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>

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

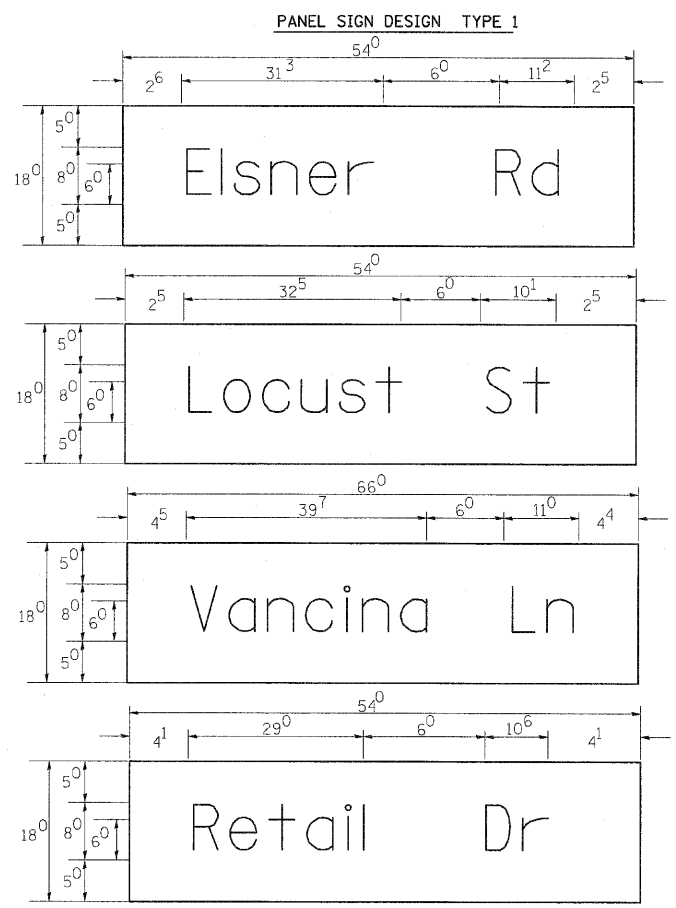
FIRST NUMBER	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>

UPPER AND LOWER CASE LETTER WIDTHS

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

\*REF-  
\*REF-  
\*REF-

F.A.U. SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353		WILL	1235	593
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



\_\_\_ Sq. M. each  
**6.75** Sq. Ft. each  
 \_\_\_ 2 Required  
 Design Series **D**

\_\_\_ Sq. M. each  
**6.75** Sq. Ft. each  
 \_\_\_ 2 Required  
 Design Series **D**

\_\_\_ Sq. M. each  
**8.25** Sq. Ft. each  
 \_\_\_ 2 Required  
 Design Series **D**

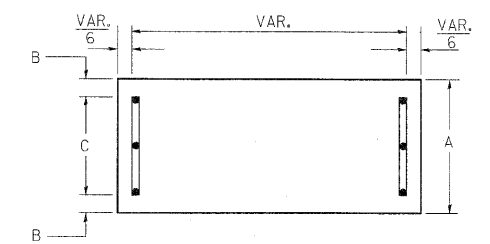
\_\_\_ Sq. M. each  
**6.75** Sq. Ft. each  
 \_\_\_ 2 Required  
 Design Series **D**

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

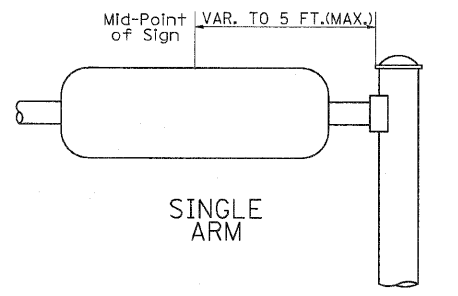
**GENERAL NOTES**

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
  - ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
  - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
  - ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
  - SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:  
 \* J.O. HERBERT CO. MIDLOTHIAN, VA. \* WESTERN REMAC INC. WOODRIDGE, IL.
- PARTS LISTING:**  
 SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
 SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3  
 SELF TAPPING WITH NEOPRENE WASHER  
 BRACKETS PART #HPN034 (UNIVERSAL)  
 CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

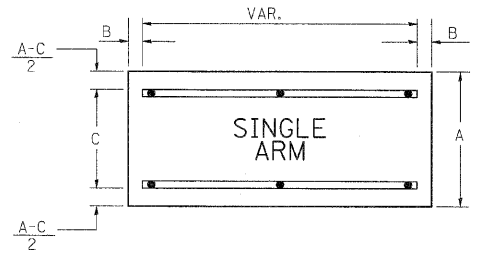
**SUPPORTING CHANNELS**



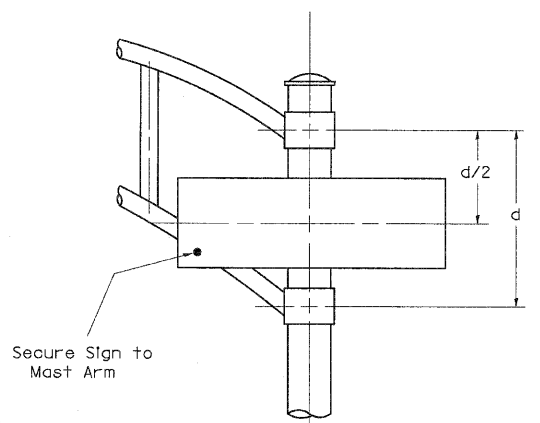
A	B	C
18"	2"	14"



**SUPPORTING CHANNELS**



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



**DUAL ARM**

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

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

EXAMPLE, 2<sup>3</sup> DENOTES 3/8

FIRST LETTER	SECOND LETTER															
	a c d e		b h i k l		f w		J		s t		v y		x		z	
	g o q	m n p r u														
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O Q R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>

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

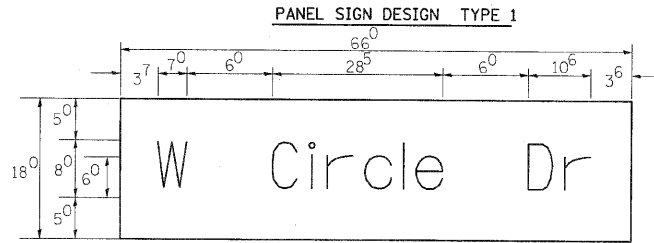
FIRST LETTER	SECOND LETTER															
	a d h g l		b h i k l		f w		J		s t		v y		x		z	
	m n q u															
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
a d h g l	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
m n q u	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
b f k o p s	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
c e	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
r	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>3</sup>	0 <sup>3</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>
t z	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
v y	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
w	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
x	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>

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

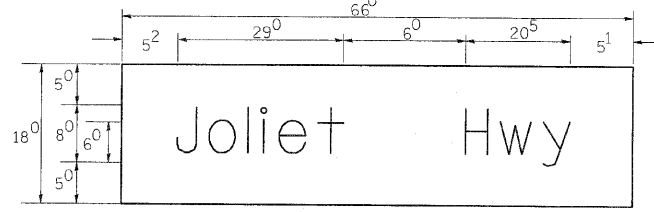
FIRST NUMBER	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>

**UPPER AND LOWER CASE LETTER WIDTHS**

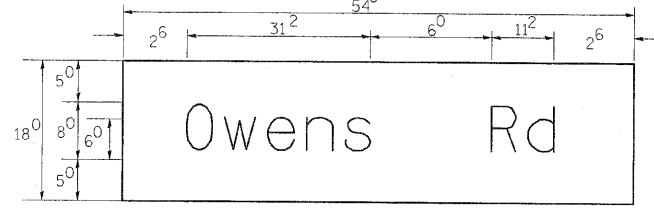
LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				6 INCH LOWER CASE LETTERS			
	SERIES		SERIES		SERIES		SERIES		SERIES		SERIES	
	C	D	C	D	C	D	C	D	C	D	C	D
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>	4 <sup>2</sup>					
B	3 <sup>2</sup>	4 <sup>0</sup>	4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



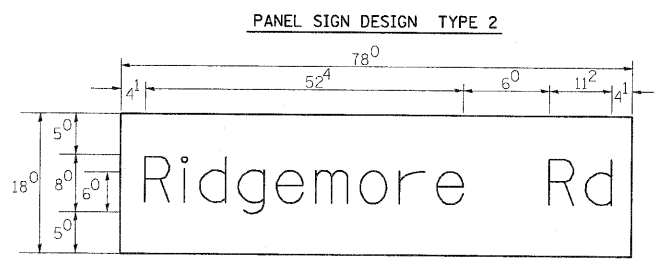
— Sq. M. each  
8.25 Sq. Ft. each  
— 2 Required  
Design Series D



— Sq. M. each  
8.25 Sq. Ft. each  
— 2 Required  
Design Series D



— Sq. M. each  
6.75 Sq. Ft. each  
— 2 Required  
Design Series D



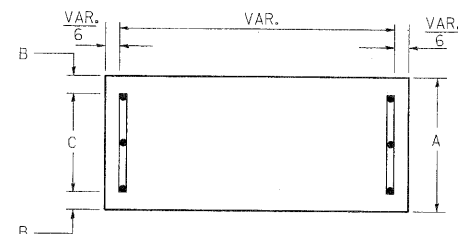
— Sq. M. each  
9.75 Sq. Ft. each  
— 2 Required  
Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

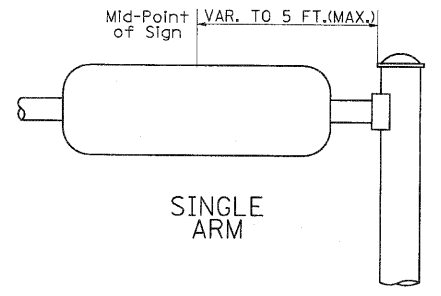
GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
  - ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
  - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
  - ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
  - SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
    - \* J.O. HERBERT CO. MIDLOTHIAN, VA.
    - \* WESTERN REMAC INC. WOODRIDGE, IL.
- PARTS LISTING:  
SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3  
BRACKETS SELF TAPPING WITH NEOPRENE WASHER  
PART #HPN034 (UNIVERSAL)  
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING  
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

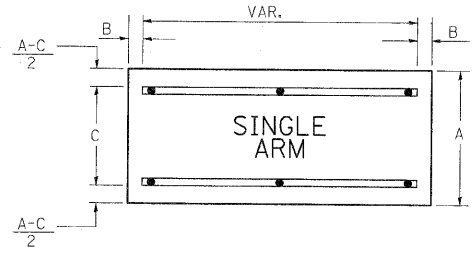
SUPPORTING CHANNELS



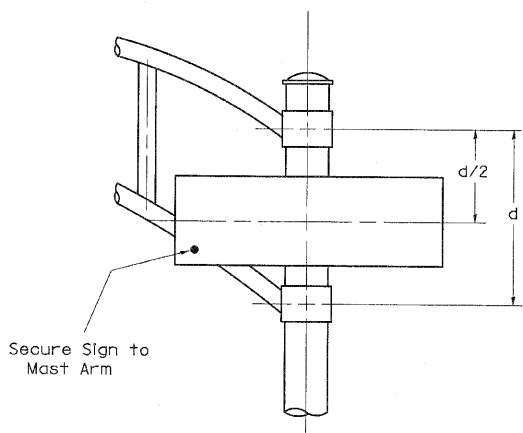
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



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



Secure Sign to Mast Arm  
DUAL ARM  
SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM  
Shall be used. See Note #5.

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

EXAMPLE, 2<sup>3</sup> DENOTES 3/8"

FIRST LETTER	SECOND LETTER															
	a c d e		b h i k l		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O Q R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>

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

FIRST LETTER	SECOND LETTER															
	a d h g i j		b h i k l		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
ad h g i j	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
l m n q u																
bf k o p s	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
c e	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
r	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>3</sup>	0 <sup>3</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>
t z	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>
v y	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
w	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
x	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>

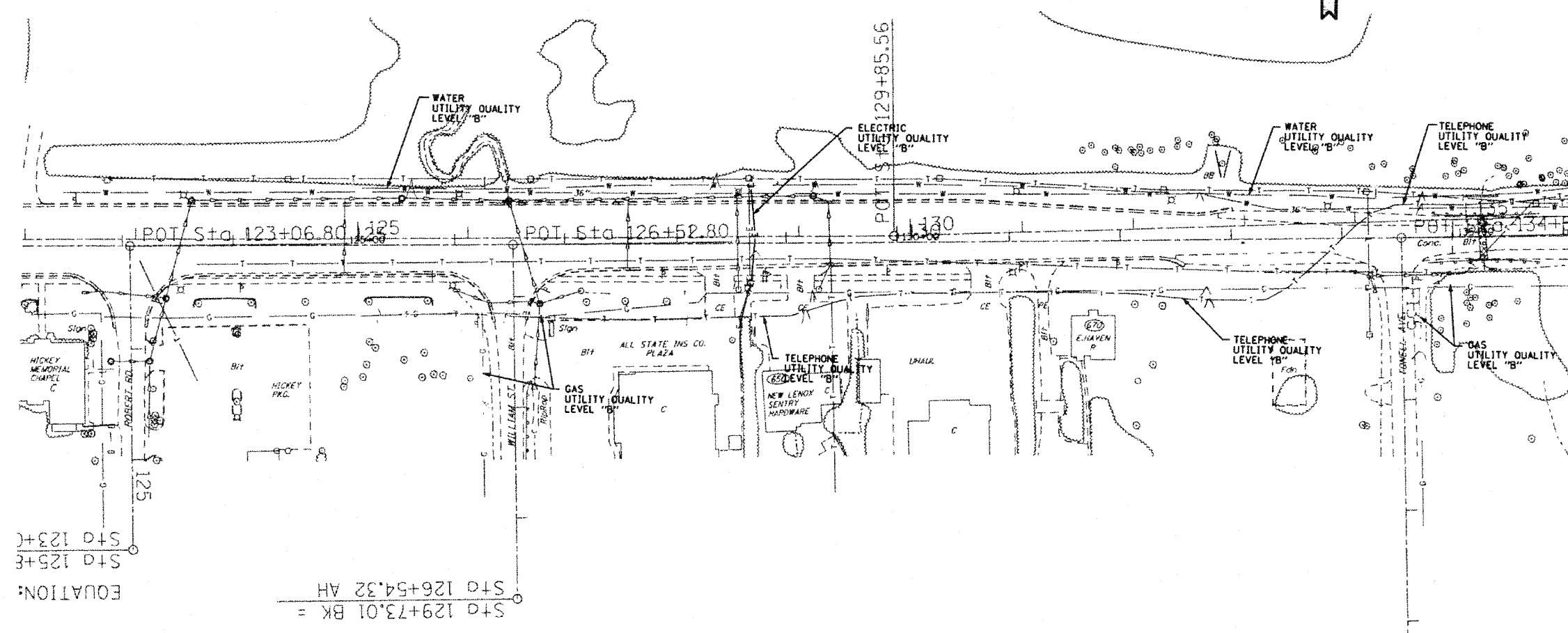
Number To Number  
Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>

UPPER AND LOWER CASE LETTER WIDTHS D-XX-XXX-XX

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12 & 131 WRS-3	WR		
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



EQUATION:  
 $STG 129+73.01 BK =$   
 $STG 126+54.32 AH$   
 $STG 123+06.80$

—T—T—T—T—	TELEPHONE
—W—W—W—W—	WATER
—G—G—G—G—	GAS
—CTV—CTV—CTV—CTV—	CABLE TELEVISION
—FO—FO—FO—FO—	FIBER OPTIC
—E—E—E—E—	ELECTRIC

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 • PLANNING • UTILITY ENGINEERING/LOCATING

IL09500213, 222, 233  
 Checked by: *Sandra Jones PL*  
 PAGE 1 OF 25  
 Utility Quality Level "B" : Designating

Utility shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was performed during the period 10-13-04 through 04-21-05. Changes to utilities after these dates may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.



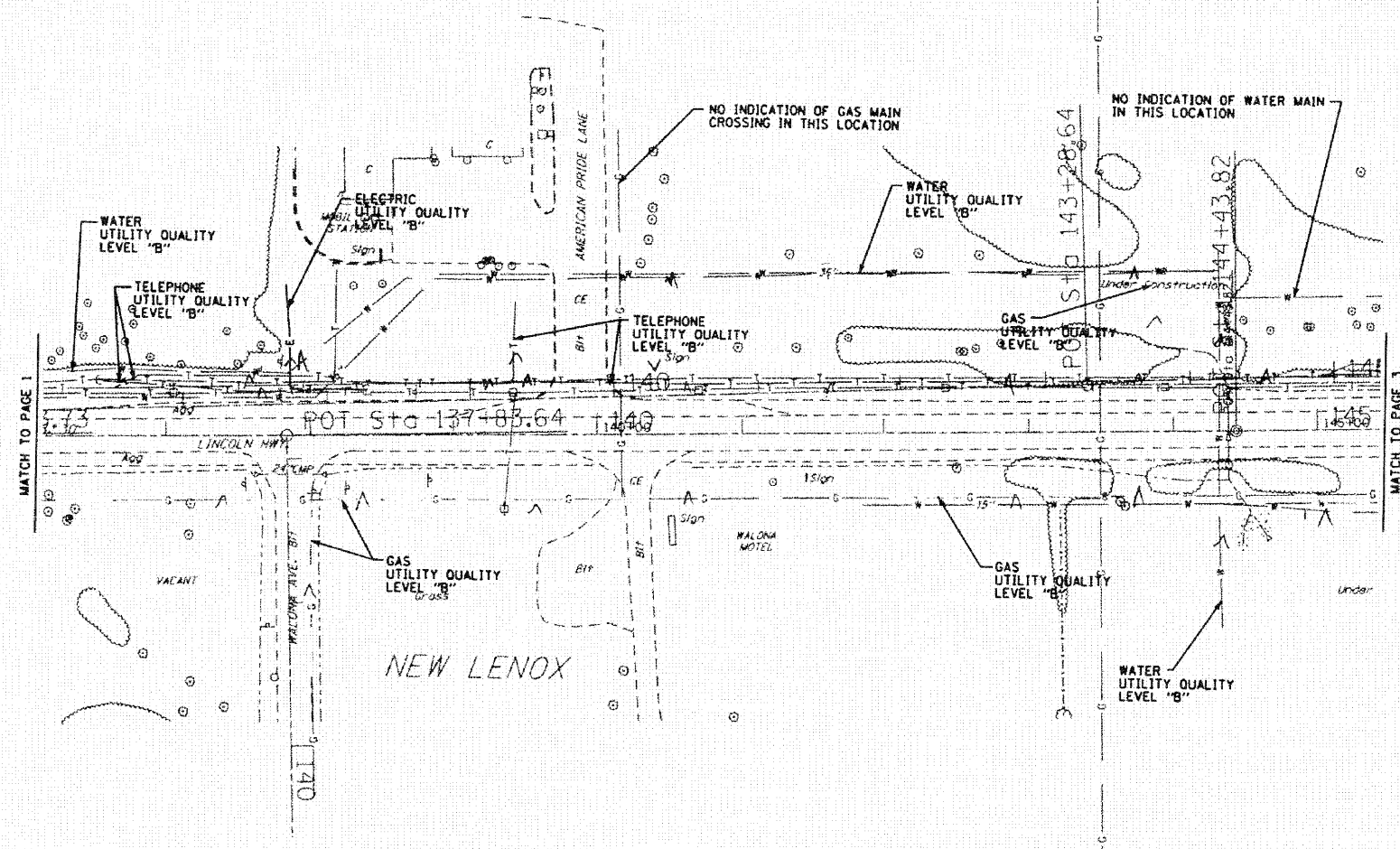
205 W. WACKER DRIVE  
 SUITE 1020  
 CHICAGO, IL 60606  
 (312) 704-1970

The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.), to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois - Will County Contract No: 62479 Section No: (12 & 13) WRS-4 DRAWN BY - KLC SCALE : 1" = 50'
NAME	DATE	

MATCH TO PAGE 2

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WR		
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



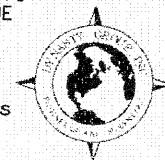
—T—T—T—T—	TELEPHONE
—W—W—W—W—	WATER
—G—G—G—G—	GAS
—CTV—CTV—CTV—	CABLE TELEVISION
—FO—FO—FO—FO—	FIBER OPTIC
—E—E—E—E—	ELECTRIC

**TBE GROUP, INC.**  
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IL09500213, 222, 233  
Checked by: *[Signature]*  
PAGE 2 OF 25  
Utility Quality Level "B" : Designating

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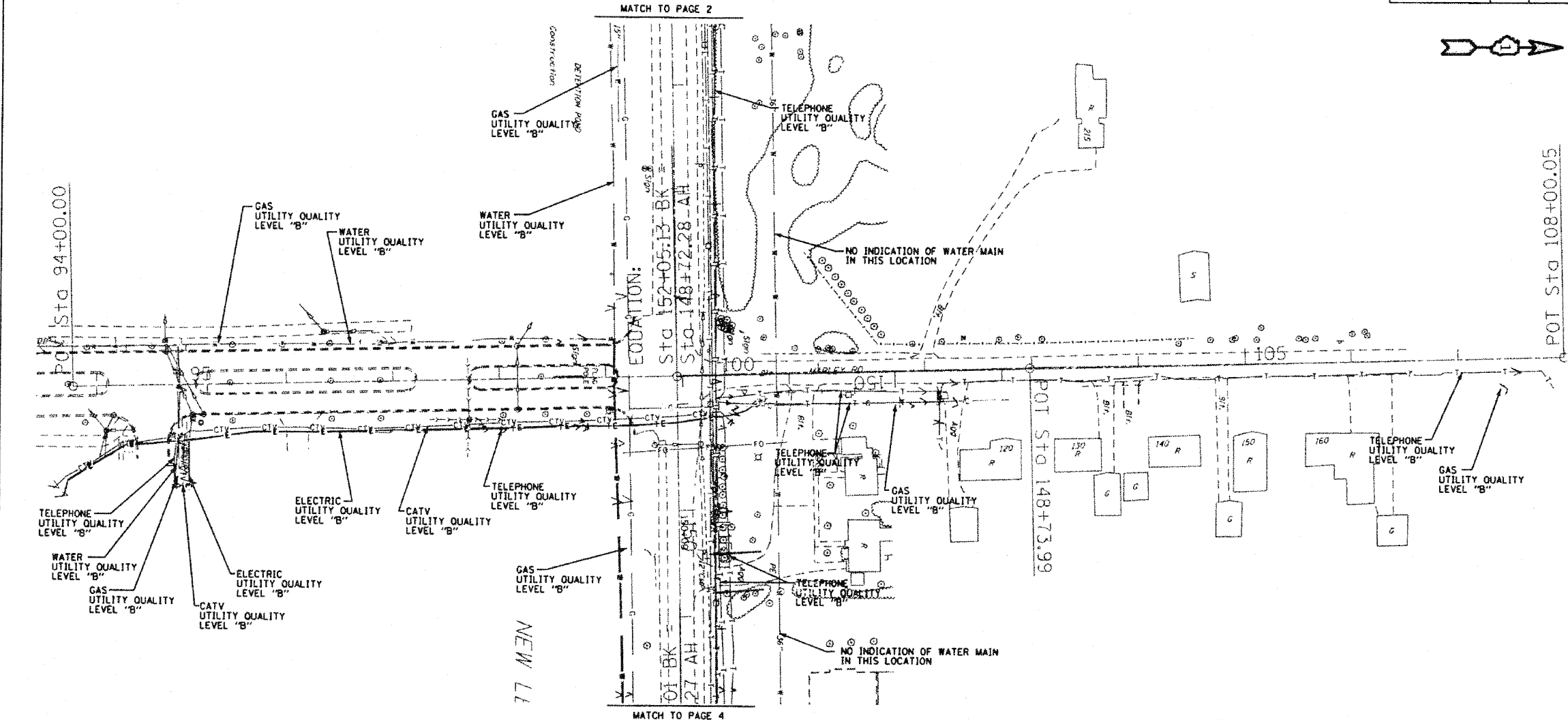
205 W. WACKER DRIVE  
SUITE 1020  
CHICAGO, IL 60606  
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RT. 30 from William Street to Wolf  
Road and US RT. 30 from Wolf Road to US  
RT. 45 in Frankfort, Illinois -  
Will County  
Contract No: 62479  
Section No.: (12 & 13) WRS-4  
DRAWN BY - KLC  
SCALE : 1" = 50'



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12 & 131 WRS-3	WR		
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



—T—T—T—T—	TELEPHONE
—W—W—W—W—	WATER
—G—G—G—G—	GAS
—CTV—CTV—CTV—CTV—	CABLE TELEVISION
—FO—FO—FO—FO—	FIBER OPTIC
—E—E—E—E—	ELECTRIC

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 PLANNING • UTILITY ENGINEERING/LOCATING

IL09500213, 222, 233  
 Checked by: *[Signature]*  
 PAGE 3 OF 25  
 Utility Quality Level "B" : Designating

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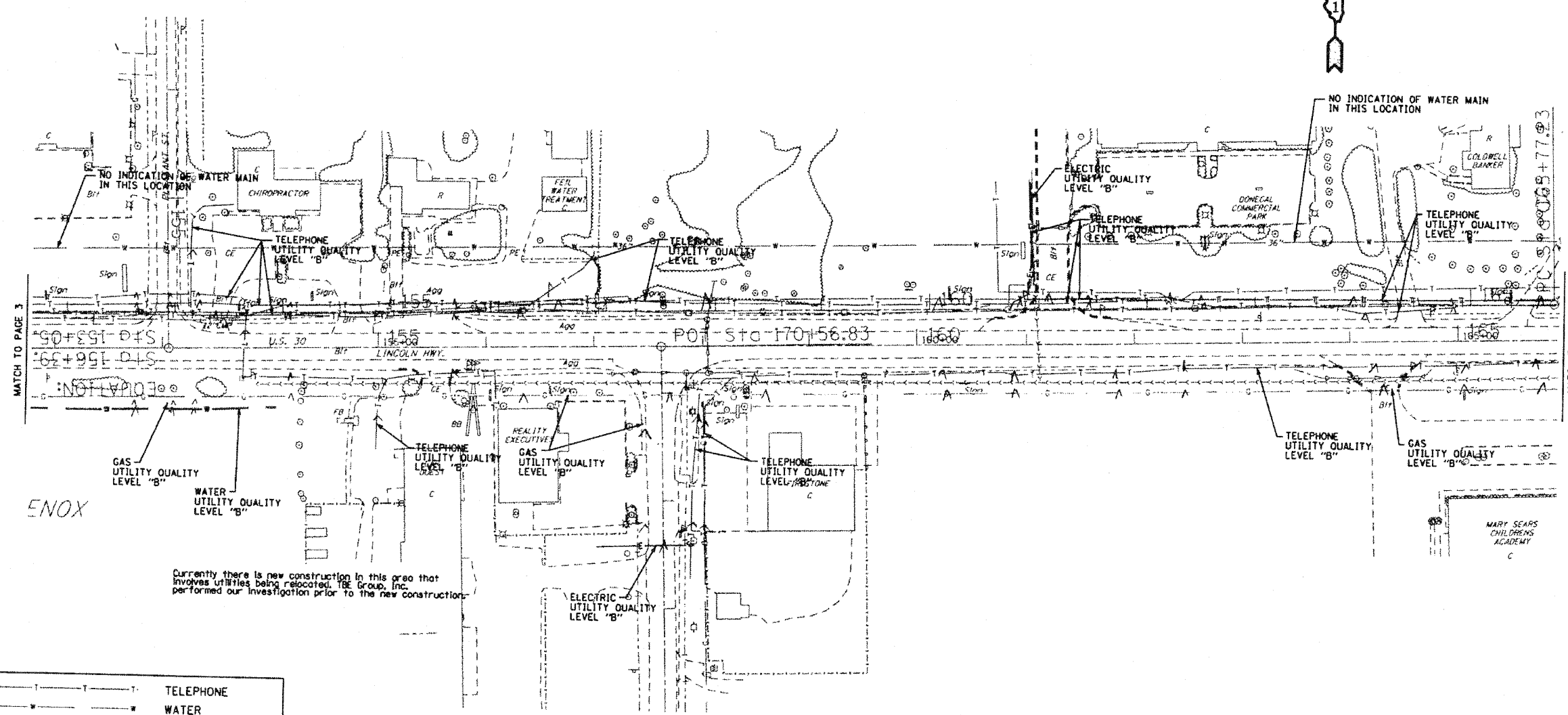


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 (312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-Will County  
 Contract No: 62479  
 Section No.: 12 & 131 WRS-4  
 DRAWN BY - KLC  
 SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WIL		
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



MATCH TO PAGE 3

MATCH TO PAGE 5

—T—T—T—	TELEPHONE
—W—W—W—	WATER
—G—G—G—	GAS
—CTV—CTV—CTV—	CABLE TELEVISION
—FO—FO—FO—	FIBER OPTIC
—E—E—E—	ELECTRIC

Currently there is new construction in this area that involves utilities being relocated. TBE Group, Inc. performed our investigation prior to the new construction.

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IL09500213, 222, 233  
Checked by: *Jane Ames*  
PAGE 4 OF 25  
Utility Quality Level "B" : Designating

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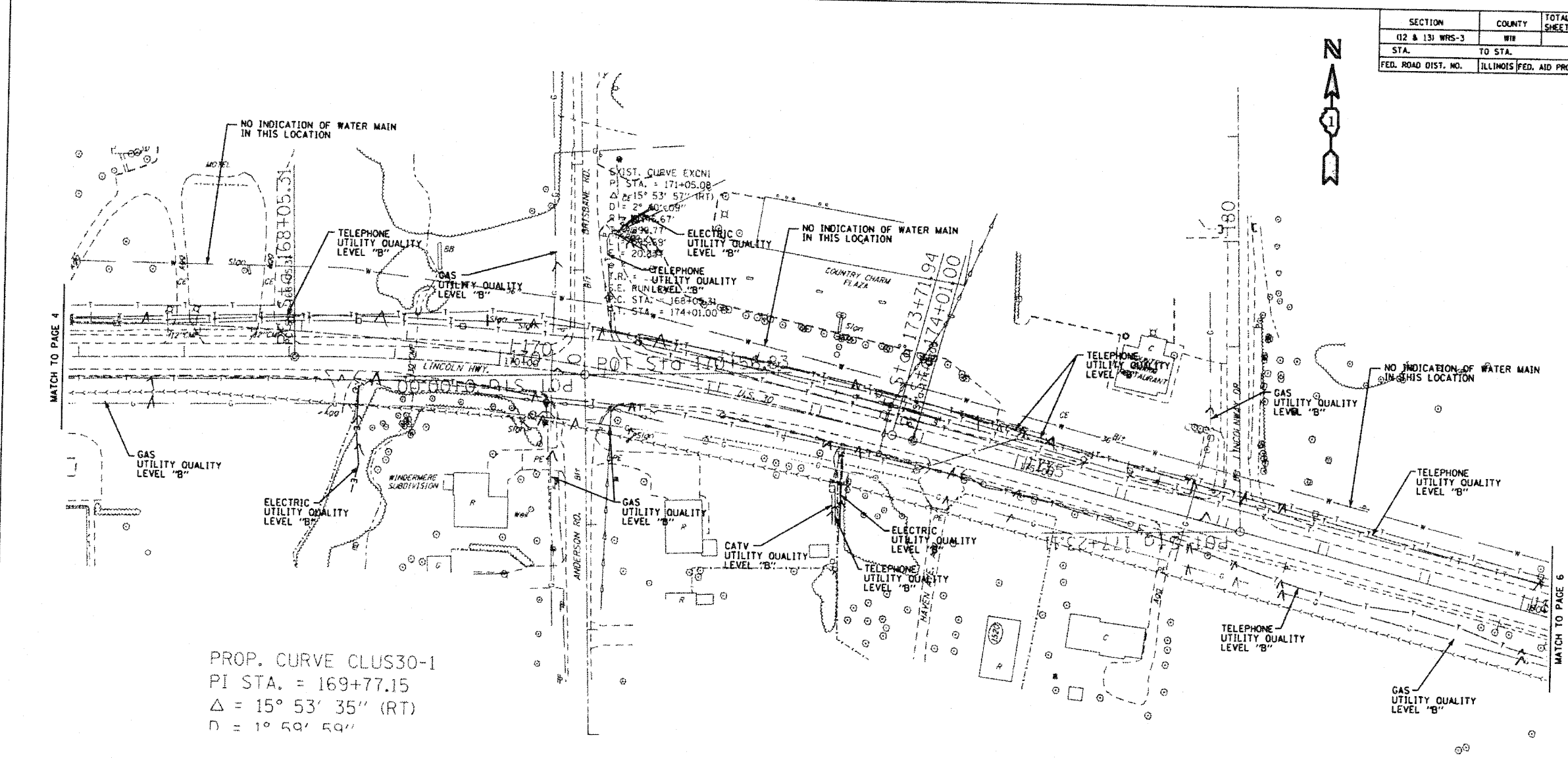


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(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois - Will County  
Contract No: 62479  
Section No.: (12 & 13) WRS-4  
DRAWN BY - KLC  
SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12 & 131 WRS-3	WILK		
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



PROP. CURVE CLUS30-1  
PI STA. = 169+77.15  
 $\Delta = 15^\circ 53' 35''$  (RT)  
 $D = 1^\circ 59' 59''$

— T — T — T — T —	TELEPHONE
— W — W — W — W —	WATER
— G — G — G — G —	GAS
— CTV — CTV — CTV — CTV —	CABLE TELEVISION
— FO — FO — FO — FO —	FIBER OPTIC
— E — E — E — E —	ELECTRIC

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**TBE GROUP**  
**TBE GROUP, INC.**  
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 Checked by: *[Signature]*  
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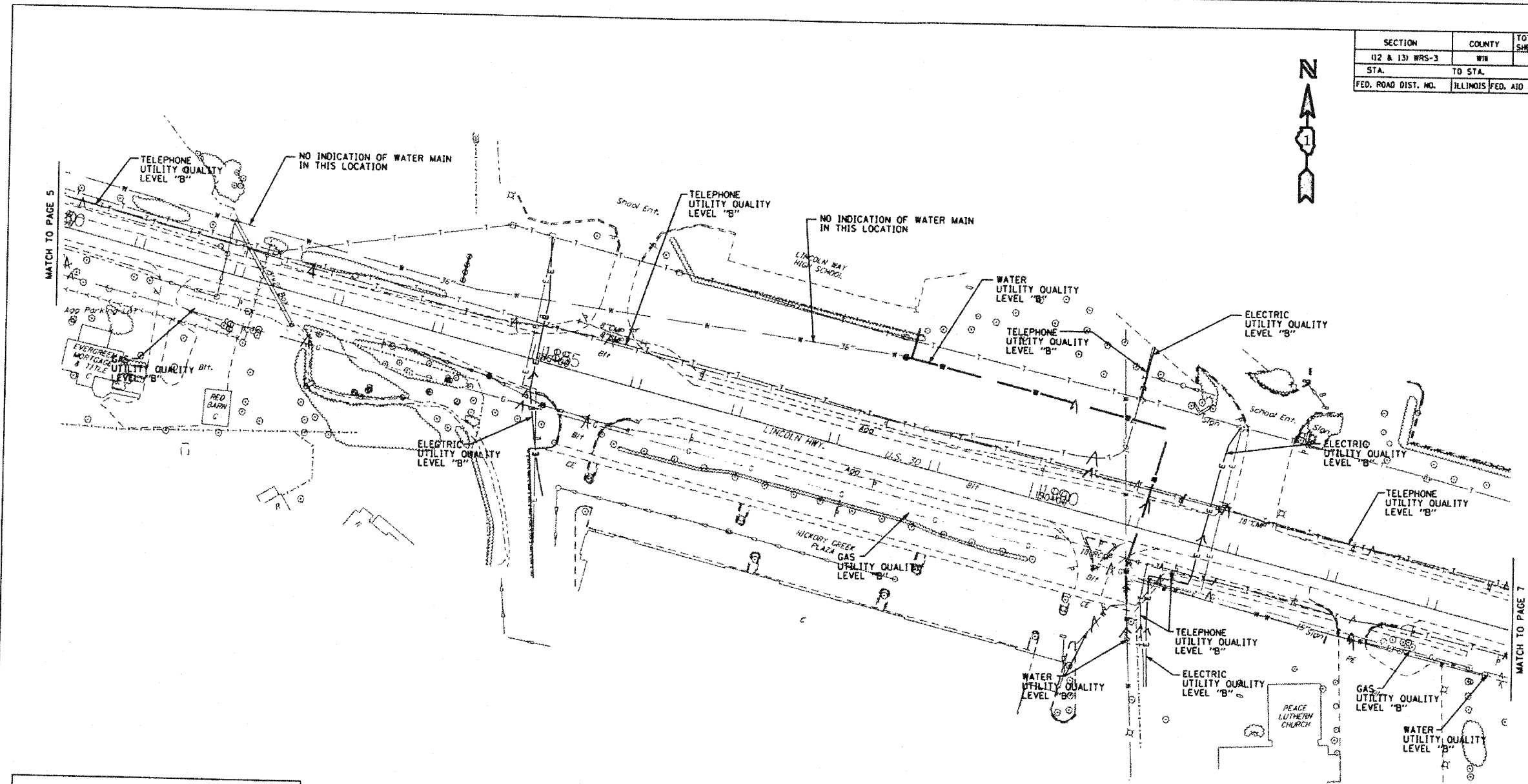


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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois - Will County  
 Contract No: 62479  
 Section No.: 12 & 131 WRS-4  
 DRAWN BY - KLC  
 SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112 & 131 WRS-3	WIN		
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



—T—T—T—	TELEPHONE
—W—W—W—	WATER
—G—G—G—	GAS
—CTV—CTV—CTV—	CABLE TELEVISION
—FO—FO—FO—	FIBER OPTIC
—E—E—E—	ELECTRIC

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PAGE 6 OF 25  
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REVISIONS	
NAME	DATE

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Contract No: 62479  
Section No.: 112 & 131 WRS-4  
DRAWN BY - KLC  
SCALE : 1" = 50'

