

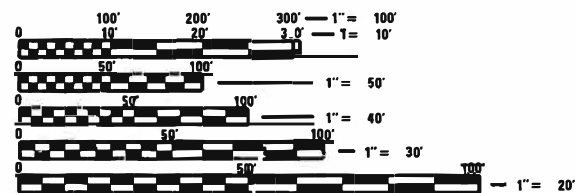
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|-------------|------------|--------|--------------------|-----------|
| F.A.J. RTE. | SECTION    | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 90          | (37-218)-1 | HENRY  | 16                 | 1         |
| ILLINOIS    |            |        | CONTRACT NO. 64M32 |           |

06-12-2020 LETTING ITEM 172

- INDEX OF SHEETS**
- 1 COVER SHEET
  - 2-3 SUMMARY OF QUANTITIES
  - 4 UTILITIES
  - 5-6 SIGNAL REMOVAL
  - 7 SIGNAL PLANS
  - 8 CABLE PLANS
  - 9 LIGHTING PLANS
  - 10-11 SIDEWALK ADA RAMP DETAILS
  - 12 SIGN DETAILS
  - 13-15 TYPICAL PAVEMENT MARKING 41.1
  - 16 BORING LOGS

**HIGHWAY STANDARDS**

- 424001-11 701006-05
- 701101-05 701201-05
- 701601-09 701701-10
- 701801-06 701901-08
- 720016-04 805001-01
- 814001-03 814006-02
- 857001-01 873001-02
- 876001-04 877001-08
- 877011-10 878001-10
- 880006-01



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

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

PROJECT ENGINEER SCOTT KULLERSTRAND 815-284-5468  
PROJECT MANAGER KRISTINE HILL 815-284-5476

CONTRACT NO. 64M32

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 412 (ALPINE RD)  
SECTION 148TS  
PROJECT STP-1J87(513)  
TYPE of IMPROVEMENT  
WINNEBAGO COUNTY

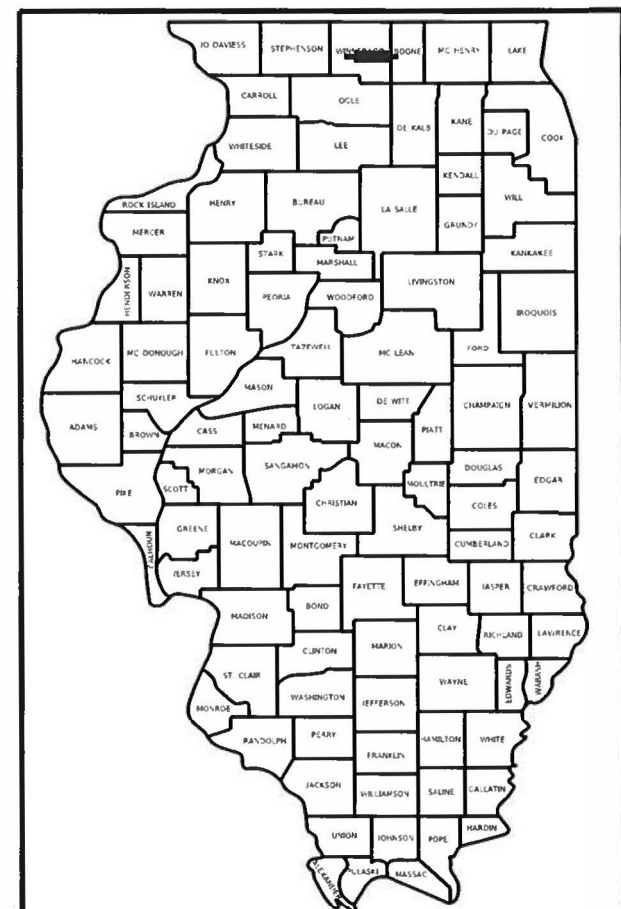
C-92-059-17

ALPINE AT  
LOUISIANA  
ALPINE AT  
FLORIDA/CLEVELAND



R 2 E  
T 43 N

D-92-042-17



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 13<sup>th</sup> 2020

*[Signature]*  
REGIONAL ENGINEER

May 8, 2020  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2020  
*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

| TRAFFIC SIGNAL TABULATION OF QUANTITIES ON ALPINE AT FLORIDA/CLEVELAND |   |       |         |           | TRAFFIC SIGNALS SAFETY 80% FEDERAL 20% 0021 URBAN |
|--|---|-------|---------|-----------|---|
| PAY CODE   | ITEM  | UNIT  | Florida | Louisiana | TOTAL   |
| 42400200   | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH                      | SQ FT | 1065    | 0         | 1065  |
| 42400800   | DETECTABLE WARNINGS   | SQ FT | 62      | 0         | 62  |
| 44000500   | COMBINATION CURB AND GUTTER REMOVAL                           | FOOT  | 109     | 0         | 109   |
| 44000600   | SIDEWALK REMOVAL  | SQ FT | 555     | 0         | 555   |
| 60605000   | COMBINATION COCRETE CURB AND GUTTER, TYPE B-6.24              | FOOT  | 118     | 0         | 118   |
| 67100100   | MOBLIZATION   | L SUM | 0.8     | 0.2       | 1   |
| 70100450   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201               | L SUM | 0.8     | 0.2       | 1   |
| 70102630   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701601               | L SUM | 0.8     | 0.2       | 1   |
| 70102635   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701               | L SUM | 0.8     | 0.2       | 1   |
| 72000100   | SIGN PANEL - TYPE 1   | SQ FT | 28      | 0         | 27.5  |
| 72000200   | SIGN PANEL - TYPE 2   | SQ FT | 30      | 0         | 30  |
| 72400310   | REMOVE SIGN PANEL - TYPE 1                                    | SQ FT | 15      | 15        | 30.25   |
| 72400320   | REMOVE SIGN PANEL - TYPE 2                                    | SQ FT | 30      | 0         | 30  |
| 78000400   | THERMOPLASTIC PAVEMNET MARKING LINE 6"                        | FOOT  | 272     | 0         | 272   |
| 78000650   | THERMOPLASTIC PAVEMENT MARKING LINE 24"                       | FOOT  | 126     | 0         | 126   |
| 80500100   | SERVICE INSTALLATION, TYPE A                                  | EACH  | 1       | 0         | 1   |
| 81028740   | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT 1 1/2" DIA. | FOOT  | 14      | 0         | 14  |
| 81028760   | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT 2 1/2" DIA. | FOOT  | 54      | 0         | 54  |

| PAY CODE   | ITEM   | UNIT | Florida | Louisiana | TOTAL |
|------------|--|------|---------|-----------|-------|
| 81028790   | UNDERGROUND COUNDUIT, COILABLE NONMETALLIC CONDUIT 4" DIA.         | FOOT | 249     | 0         | 249   |
| 81400700   | HANDHOLE, PORTLAND CEMENT CONCRETE                                 | EACH | 3       | 0         | 3     |
| 81400720   | DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE                          | EACH | 1       | 0         | 1     |
| 81702110   | ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 10          | FOOT | 600     | 0         | 600   |
| * 82110007 | LUMINAIRE, LED ROADWAY, OUTPUT DESIGNATION G                       | EACH | 3       | 0         | 3     |
| 84500120   | REMOVAL OF ELECTRIC SERVICE INSTALLATION                           | EACH | 1       | 1         | 2     |
| 85000200   | MAINTENANCE OF EXISTING TRAFFIC SIGNAL                             | EACH | 1       | 0         | 1     |
| 85700200   | FULL ACUATED CONTROLLER AND TYPE IV CABINET                        | EACH | 1       | 0         | 1     |
| 87301215   | ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C                       | FOOT | 165     | 0         | 165   |
| 87301225   | ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C                       | FOOT | 177     | 0         | 177   |
| 87301245   | ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C                       | FOOT | 1170    | 0         | 1170  |
| 87301255   | ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C                       | FOOT | 594     | 0         | 594   |
| 87301815   | ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 3C                        | FOOT | 30      | 0         | 30    |
| 87301900   | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, No. 6 1C | FOOT | 298     | 0         | 298   |
| 87502430   | TRAFFIC SIGNAL POST, GALVANIZED STEEL 9 FT.                        | EACH | 1       | 0         | 1     |
| 87700160   | STEEL MAST ARM ASSEMBLY AND POLE 24 FT                             | EACH | 2       | 0         | 2     |
| 87702910   | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT                 | EACH | 1       | 0         | 1     |
| 87702930   | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT                 | EACH | 1       | 0         | 1     |
| 87800100   | CONCRETE FOUNDATION, TYPE A  | FOOT | 3       | 0         | 3     |
| 87800200   | CONCRETE FOUNDATION, TYPE D  | FOOT | 3       | 0         | 3     |

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| PLOT DATE = Feb-27 2020 09:24:55 AM |            |            |

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

**ALPINE AT FLORIDA/CLEVELAND & AT LOUISIANA**  
**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

|                           |                 |                    |                    |               |
|---------------------------|-----------------|--------------------|--------------------|---------------|
| F.A.P. RTE. =             | SECTION = 148T5 | COUNTY = WINNEBAGO | TOTAL SHEETS = 16  | SHEET NO. = 2 |
|                           |                 |                    | CONTRACT NO. 64M32 |               |
| ILLINOIS FED. AID PROJECT |                 |                    |                    |               |

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|                   |   |       |         |           |       | TRAFFIC SIGNALS<br>SAFETY 80%<br>FEDERAL 20%<br>0021<br>URBAN |
|-------------------|---|-------|---------|-----------|-------|---|
| PAY CODE          | ITEM  | UNIT  | Florida | Louisiana | TOTAL |   |
| 87800400          | CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER                             | FOOT  | 20      | 0         | 20    |   |
| 87800415          | CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER                             | FOOT  | 22      | 0         | 22    |   |
| 88040090          | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MASTARM MOUNTED       | EACH  | 8       | 0         | 8     |   |
| 88040110          | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED       | EACH  | 2       | 0         | 2     |   |
| 88040120          | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED      | EACH  | 2       | 0         | 2     |   |
| 88102825          | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE BRACKET MOUNTED WITH COUNT DOWN TIMER | EACH  | 2       | 0         | 2     |   |
| 88200100          | TRAFFIC SIGNAL BACKPLATE  | EACH  | 10      | 0         | 10    |   |
| 89501420          | RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, COMPLETE             | EACH  | 1       | 0         | 1     |   |
| 89502375          | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH  | 1       | 1         | 2     |   |
| 89502380          | REMOVE EXISTING HANDHOLE  | EACH  | 6       | 2         | 8     |   |
| 89502382          | REMOVE EXISTING DOUBLE HANDHOLE   | EACH  | 1       | 1         | 2     |   |
| X0327425          | RELOCATE WIRELESS INTERCONNECT (COMPLETE)                                 | L SUM | 1       | 0         | 1     |   |
| X0327979          | PAVEMENT MARKING REMOVAL - GRINDING                                       | SQ FT | 376     | 0         | 376   |   |
| X4402810          | ISLAND SURFACE REMOVAL AND REPLACEMENT                                    | SQ FT | 304     | 0         | 304   |   |
| X8950105          | REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET                            | EACH  | 1       | 1         | 2     |   |
| Z0033072          | VIDEO VEHICLE DETECTOR SYSTEM   | EACH  | 1       | 0         | 1     |   |
| * SPECIALTY ITEMS |   |       |         |           |       |   |

|                                     |            |           |
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| PLOT DATE = Feb-27-2020 09:25:06 AM | CHECKED -  | REVISED - |
|                                     | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALPINE AT FLORIDA/CLEVELAND & AT LOUISIANA  
SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

|                    |         |           |                          |           |
|--------------------|---------|-----------|--------------------------|-----------|
| F.A.P. RTE.        | SECTION | COUNTY    | TOTAL SHEETS             | SHEET NO. |
| 412                | 1481S   | WINNEBAGO | 16                       | 3         |
| CONTRACT NO. 64M32 |         |           | ILLINOIS FED AID PROJECT |           |

**UTILITIES**

| NAME AND ADDRESS  | TYPE           | TELEPHONE    |   |
|---|----------------|--------------|---|
| MR BRUCE KOPPANG<br>NICOR GAS CO.<br>1844 FERRY ROAD<br>NAPERVILLE, IL 60563-9600                             | GAS            | 630-388-3046 | JULIE MEMBER? YES<br>CALL 800-892-0123        |
| MS JAMIE ROTT<br>ROCKFORD WATER DEPARTMENT<br>425 E STATE STREET<br>ROCKFORD, IL 61104                        | WATER          | 815-967-7060 | JULIE MEMBER? NO<br>CALL 815-218-2954<br>CELL |
| MR DANA CARROLL<br>ROCK RIVER WATER RECLAMATION DISTRICT<br>3501 KISHWAUKEE STREET<br>ROCKFORD, IL 61126-7480 | SEWER          | 815-387-7400 | JULIE MEMBER? YES<br>CALL 800-892-0123        |
| MR KEITH KOSHINSKI<br>COMCAST CABLE<br>4450 KISHWAUKEE STREET<br>ROCKFORD, IL 61109                           | CATV           | 224-229-5432 | JULIE MEMBER? YES<br>CALL 800-892-0123        |
| MR LANCE SANDY<br>IFIBER<br>3100 SYCAMORE ROAD<br>DEKALB, IL 60115  | COMMUNICATIONS | 815-753-6075 | JULIE MEMBER?<br>CALL                         |
| MR HECTOR GARCIA<br>ATT&T<br>100 COMMERCE DRIVE<br>OAK BROOK, IL 60523  | TELEPHONE      | 630-573-5465 | JULIE MEMBER? YES<br>CALL 800-892-0123        |
| MR ADAM SADKOWSKI<br>COMMONWEALTH EDISON COMPANY<br>123 ENERGY AVENUE<br>ROCKFORD, IL 61109                   | ELECTRIC       | 630-985-4043 | JULIE MEMBER? YES<br>CALL 800-892-0123        |

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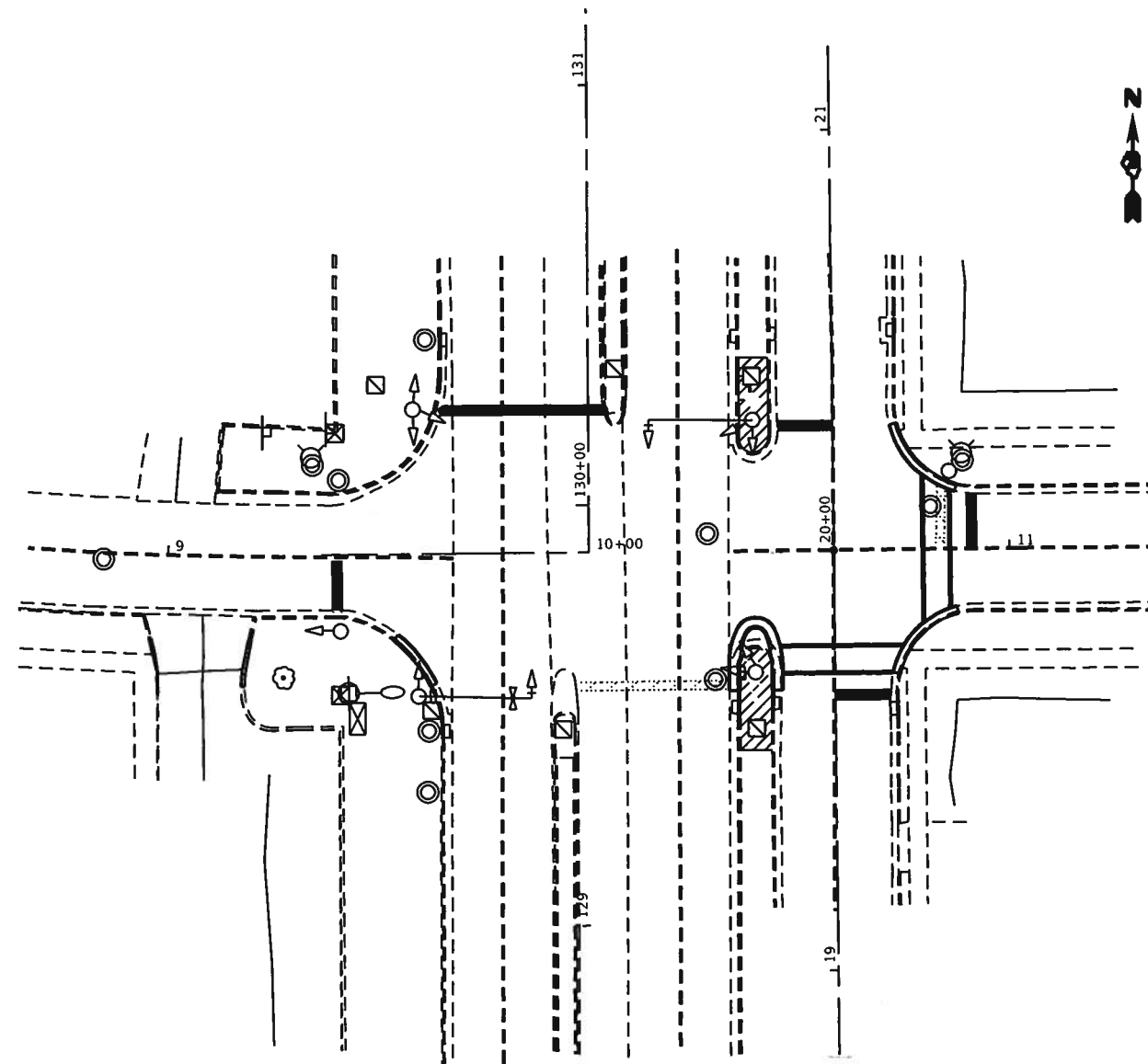
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|                                     | DATE -     | REVISED - |

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

**ALPINE AT FLORIDA/CLEVELAND AND AT LOUISIANA**  
**UTILITIES**  
 SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

|                    |         |           |                           |           |
|--------------------|---------|-----------|---------------------------|-----------|
| F.A.P. RTE.        | SECTION | COUNTY    | TOTAL SHEETS              | SHEET NO. |
| 412                | 148T5   | WINNEBAGO | 16                        | 4         |
| CONTRACT NO. 64M32 |         |           | ILLINOIS FED. AID PROJECT |           |





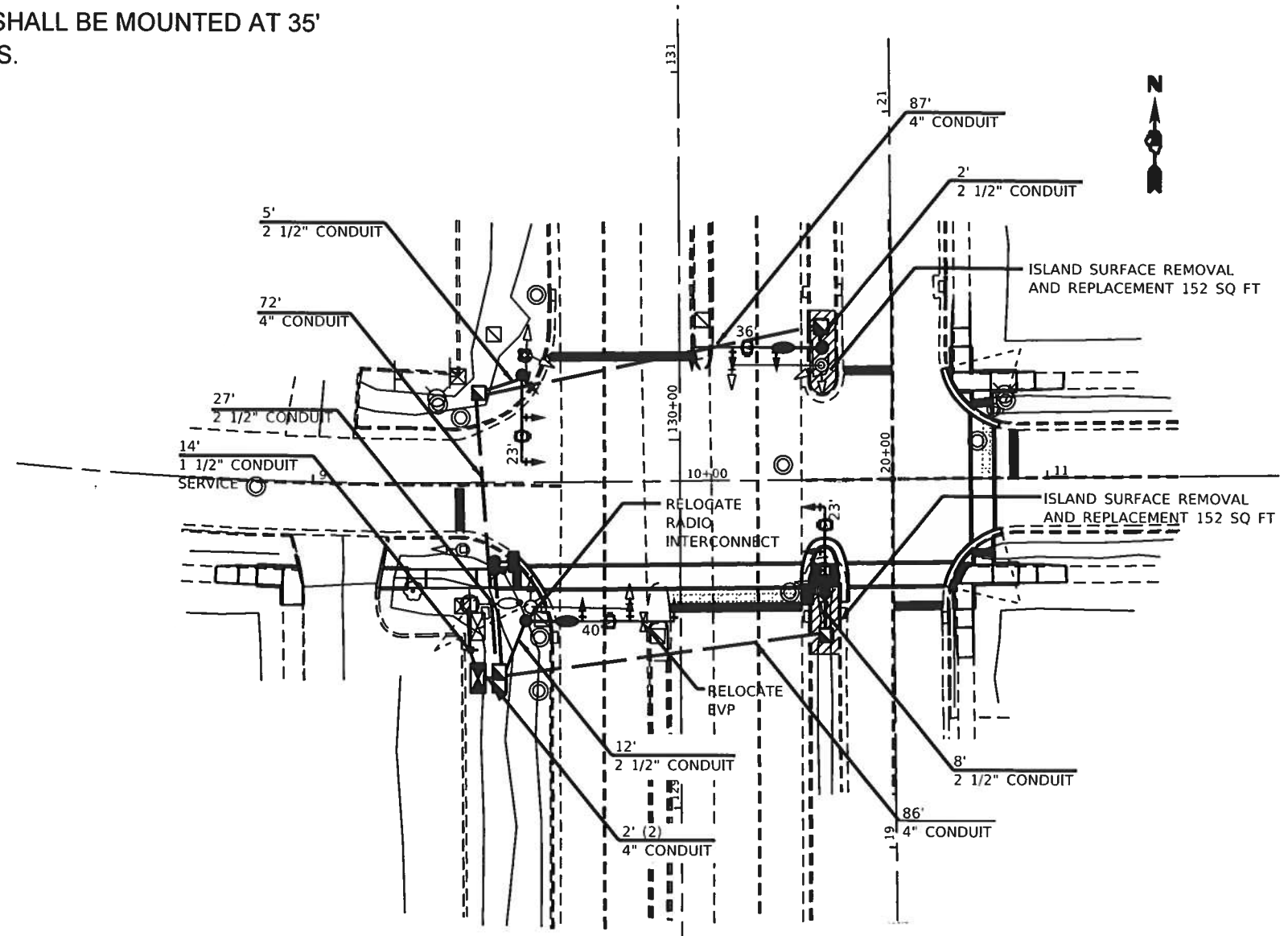
**ALPINE @ FLORIDA/CLEVELAND SIGNAL REMOVAL**

- 72400310 REMOVE SIGN PANEL - TYPE 1 SQ FT 15
  - 72400320 REMOVE SIGN PANEL - TYPE 2 SQ FT 30
  - 84500120 REMOVAL OF ELECTRIC SERVICE INSTALLATION - EACH 1
  - 89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - L SUM 1
    - 2 - 32' MAST ARM ASSEMBLIES (ONE IS A COMBINATION)
    - 4 - SIGNAL POSTS
    - 2 - 1 SECTION BRACKET MOUNTED SIGNAL HEAD
    - 12 - 3 SECTION BRACKET MOUNTED SIGNAL HEADS
    - 2 - 3 SECTION MAST ARM MOUNT SIGNAL HEADS
    - 2 - 5 SECTION MAST ARM MOUNTED SIGNAL HEAD
    - 2 - PEDESTRIAN HEADS
    - 1 - EVP SYSTEM
  - REMOVE WIRE FROM CONDUIT, ABANDON CONDUIT
  - 89502380 REMOVE EXISTING HANDHOLE - EACH 6
  - 89502385 REMOVE EXISTING CONCRETE FOUNDATION - EACH 7
    - (2 - MAST ARM, 4 - SIGNAL POSTS, 1 - CONTROLLER)
  - X8950105 REMOVE EXISTING TAFFIC CONTROLLER AND CABINET - EACH 1
- ALL TRAFFIC SIGNAL EQUIPMENT SHALL REMAIN THE PROPERTY OF THE CITY OF ROCKFORD FOR SALVAGE. THE CONTRACT SHALL CONTACT CALVIN KINARD, SIGNAL AND LIGHTING SUPERVISOR WITH THE CITY OF ROCKFORD, AT 815-209-7528 TO ARRANGE FOR PICK -UP OF SALVAGEABLE EQUIPMENT.



















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|--|--|--|---|--|--|---|---------------------------|

LUMINAIRES SHALL BE MOUNTED AT 35'  
WITH 12' ARMS.



**LEGEND**

-  EXISTING CONTROLLER
  -  NEW CONTROLLER
  -  EXISTING STEEL MAST ARM ASSEMBLY AND POLE
  -  NEW STEEL MAST ARM ASSEMBLY AND POLE
  -  EXISTING SIGNAL HEAD AND POST
  -  NEW SIGNAL HEAD AND POST
  -  EXISTING SIGNAL HEAD
  -  NEW SIGNAL HEAD WITH BACKPLATE
  -  EXISTING PEDESTRIAN HEAD
  -  NEW PEDESTRIAN HEAD
  -  PEDESTRIAN PUSHBUTTON
  -  EXISTING HANDHOLE
  -  NEW HANDHOLE
  -  NEW HEAVY-DUTY HANDHOLE
  -  NEW DOUBLE HANDHOLE
  -  EXISTING CONDUIT (LENGTH AND SIZE)
  -  NEW LUMINAIRE
  -  UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT
- UPPER NUMERAL INDICATES LENGTH  
LOWER NUMERAL INDICATES CONDUIT SIZE

| Mast Arm Length (ft) | Foundation Diameter | foundation Depth (ft.) |
|----------------------|---------------------|------------------------|
| 23                   | 30                  | 10                     |
| 23                   | 30                  | 10                     |
| 36                   | 36                  | 11                     |
| 40                   | 36                  | 11                     |

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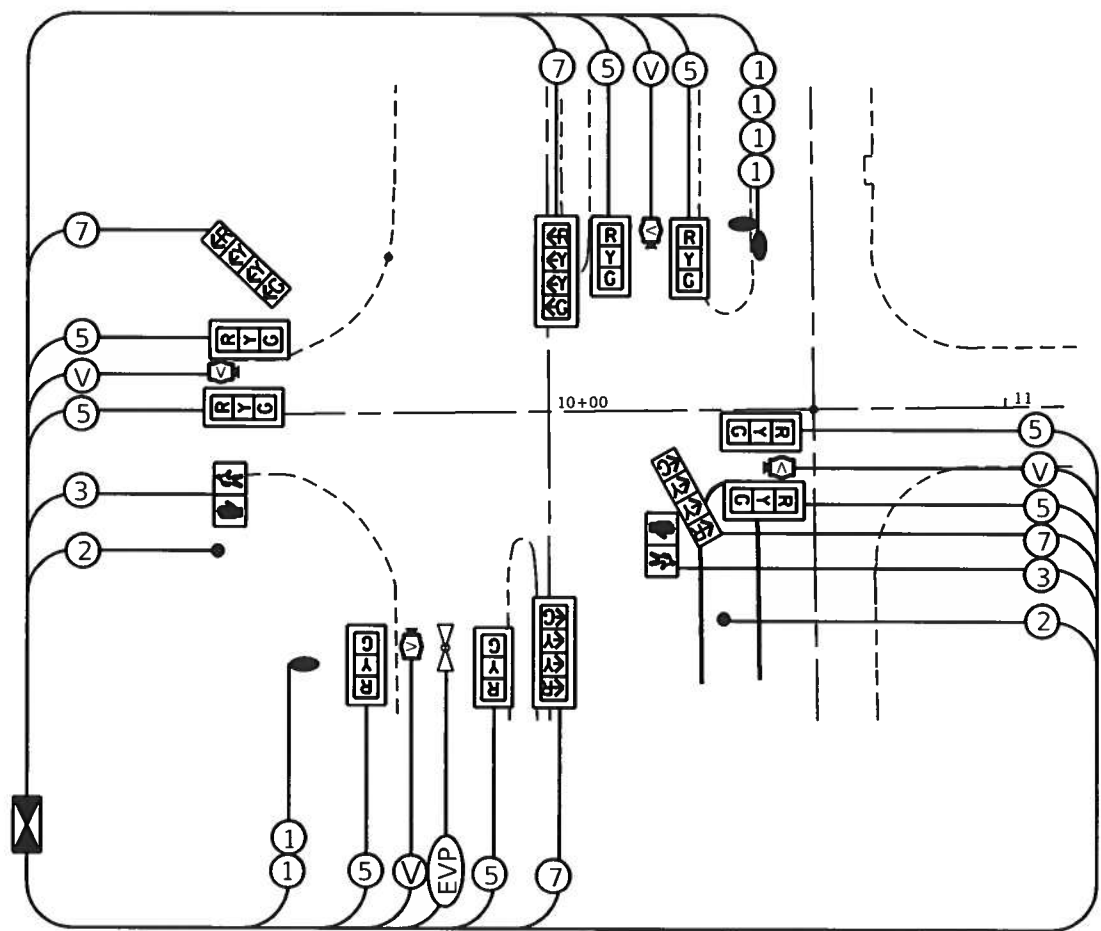
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

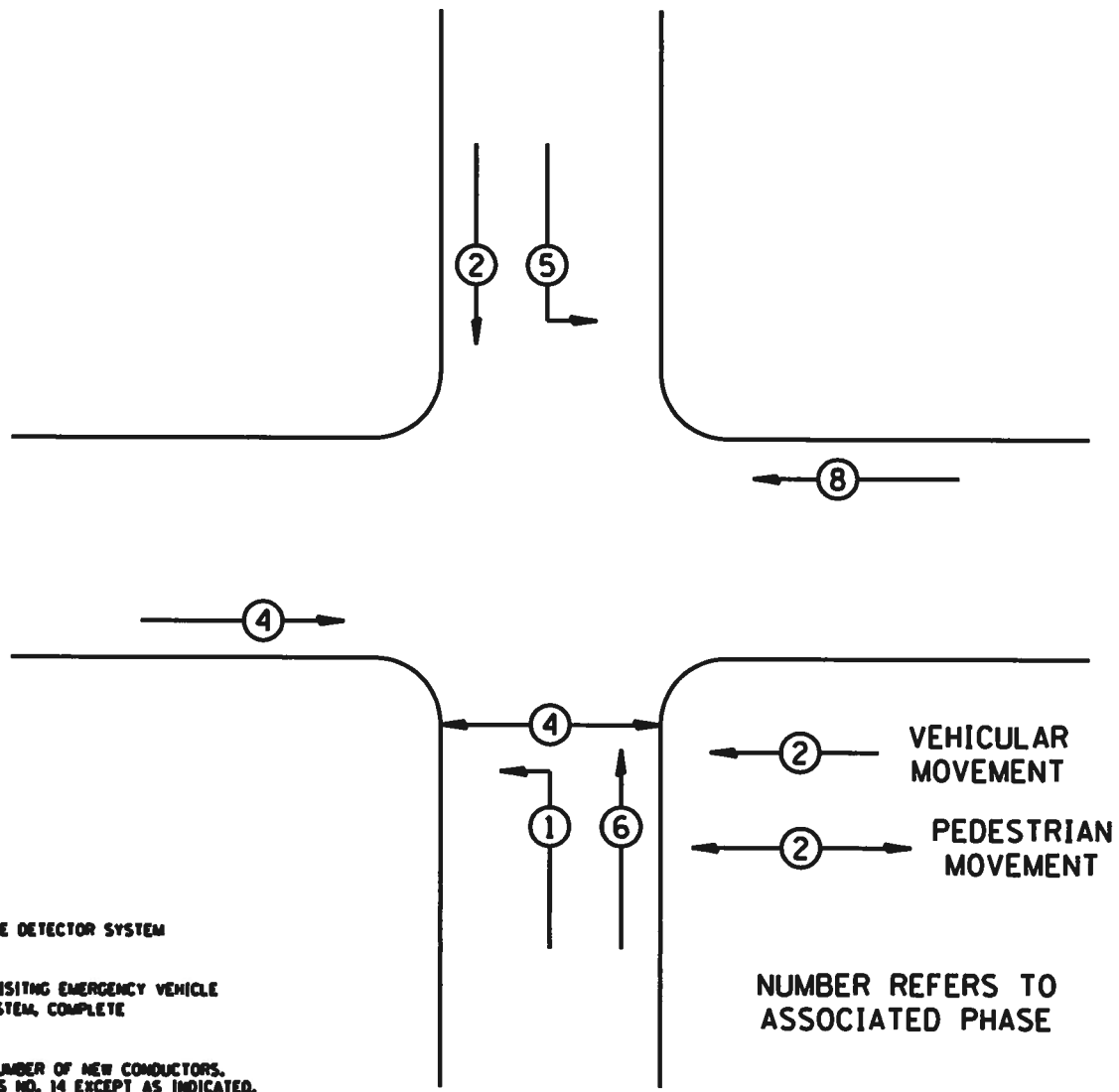
**ALPINE AT FLORIDA/CLEVELAND  
SIGNAL PLANS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

|                    |               |                  |                           |             |
|--------------------|---------------|------------------|---------------------------|-------------|
| F.A.P. RTE: 412    | SECTION 148TS | COUNTY WINNEBAGO | TOTAL SHEETS 16           | SHEET NO. 7 |
| CONTRACT NO. 64M32 |               |                  | ILLINOIS FED. AID PROJECT |             |



**PHASE DESIGNATION DIAGRAM**



REFER TO STANDARD 857001

- LEGEND**
- VIDEO VEHICLE DETECTOR SYSTEM
  - RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, COMPLETE
  - INDICATES NUMBER OF NEW CONDUCTORS. ALL CABLE IS NO. 14 EXCEPT AS INDICATED. "P" INDICATES PAIR CABLE
  - NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE
  - NEW PEDESTRIAN HEAD - LED
  - PEDESTRIAN PUSHBUTTON
  - LED SEE LIGHTING WIRING DETAILS

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| PLOT DATE = Feb-27-2020 09:33:06 AM | CHECKED -  | REVISED - |
|                                     | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





|                                   |                             |
|-----------------------------------|-----------------------------|
| <b>ALPINE AT FLORIDACLEVELAND</b> |                             |
| <b>CABLE PLANS</b>                |                             |
| SCALE: _____                      | SHEET _____ OF _____ SHEETS |
| STA. _____                        | TO STA. _____               |

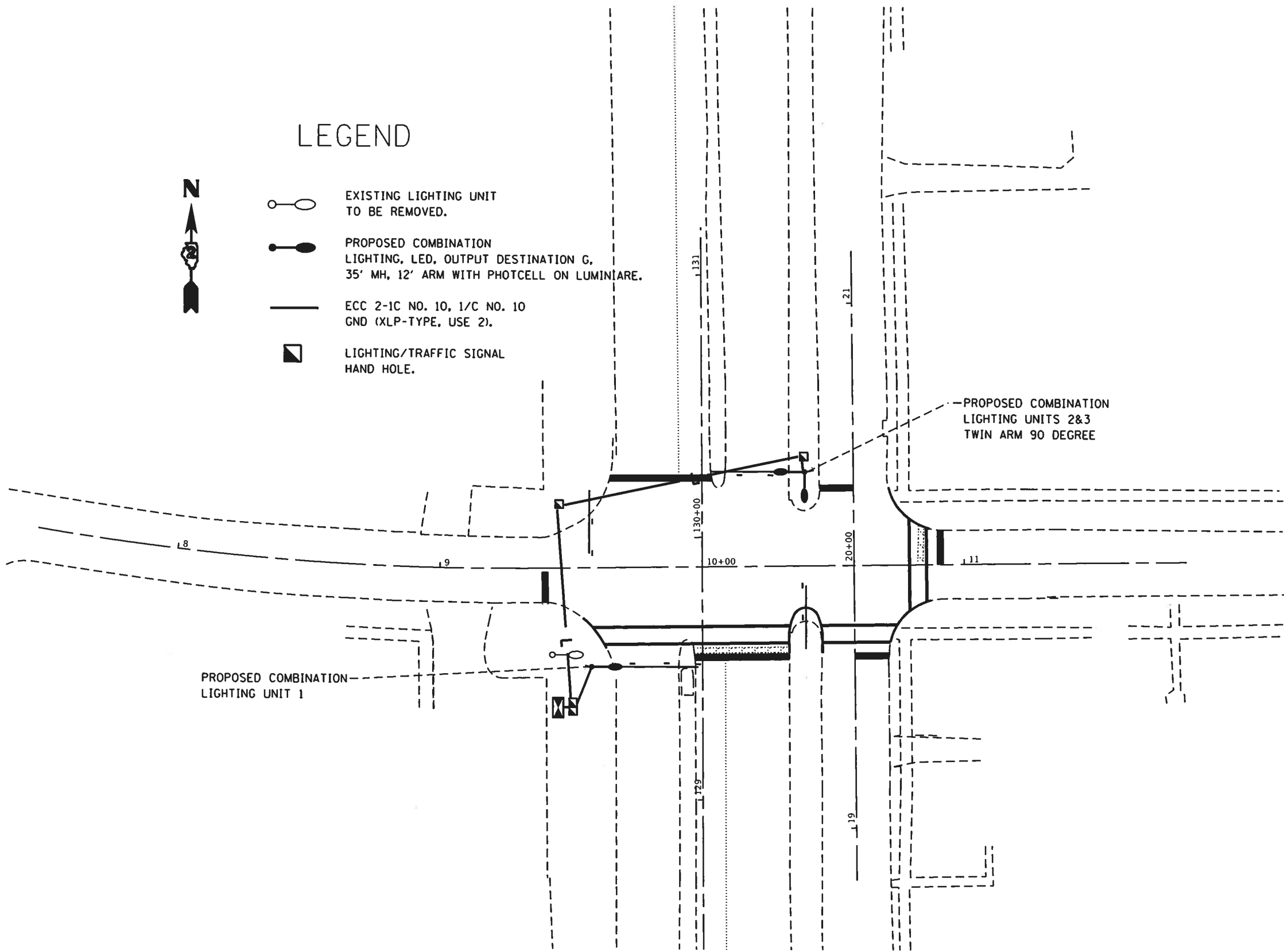
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|---------------------------|-----------------|--------------------|-------------------|---------------|
| F.A.P. RTE. = 412         | SECTION = 14815 | COUNTY = WINNEBAGO | TOTAL SHEETS = 16 | SHEET NO. = 8 |
| CONTRACT NO. 64M32        |                 |                    |                   |               |
| ILLINOIS FED. AID PROJECT |                 |                    |                   |               |



# LEGEND



-  EXISTING LIGHTING UNIT TO BE REMOVED.
-  PROPOSED COMBINATION LIGHTING, LED, OUTPUT DESTINATION G, 35' MH, 12' ARM WITH PHOTCELL ON LUMINAIRE.
-  ECC 2-1C NO. 10, 1/C NO. 10 GND (XLP-TYPE, USE 2).
-  LIGHTING/TRAFFIC SIGNAL HAND HOLE.



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|                                     | DATE -     | REVISED - |

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

**ALINE AT FLORIDA/CLEVELAND**  
**LIGHTING PLANS**

SCALE: \_\_\_\_\_ SHEET OF SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|-----------|--------------|-----------|
| 412                       | 148TS   | WINNEBAGO | 16           | 9         |
| CONTRACT NO. 64M32        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |





HMA Entr.

PT Sta 9+36.20

HMA

9

FLORIDA DR.

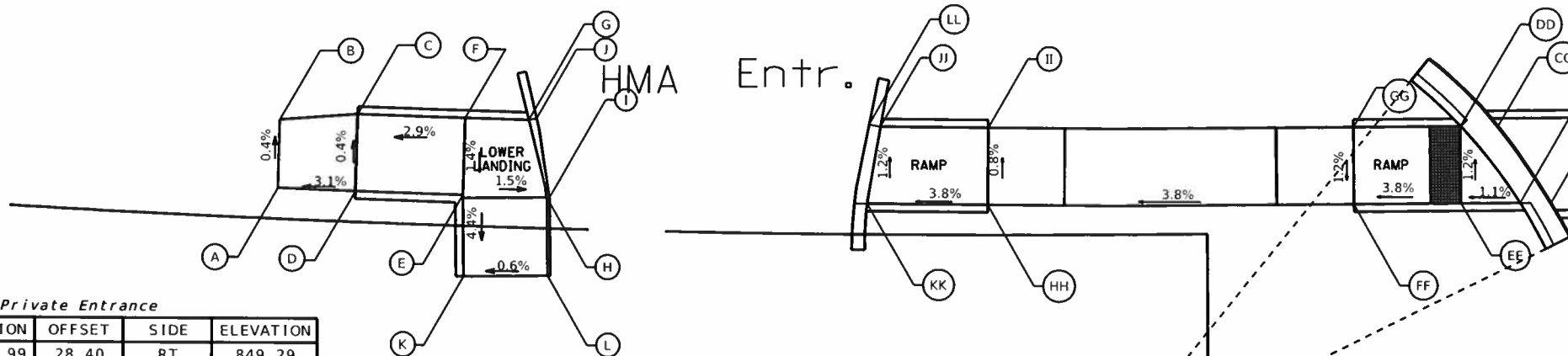
HMA

Florida Dr & Alpine Rd

| POINT | STATION | OFFSET | SIDE | ELEVATION |
|-------|---------|--------|------|-----------|
| AA    | 9+62.12 | 28.53  | RT   | 851.71    |
| BB    | 9+60.15 | 28.53  | RT   | 851.67    |
| CC    | 9+58.74 | 23.53  | RT   | 851.73    |
| DD    | 9+56.36 | 23.53  | RT   | 851.69    |
| EE    | 9+56.36 | 28.53  | RT   | 851.63    |
| FF    | 9+49.36 | 28.53  | RT   | 851.36    |
| GG    | 9+49.36 | 23.53  | RT   | 851.42    |
| HH    | 9+25.86 | 28.43  | RT   | 850.58    |
| II    | 9+25.86 | 23.43  | RT   | 850.54    |
| JJ    | 9+19.05 | 23.40  | RT   | 850.28    |
| KK    | 9+18.24 | 28.40  | RT   | 850.34    |
| LL    | 9+18.33 | 23.56  | RT   | 850.24    |
| MM    | 9+17.43 | 28.40  | RT   | 850.30    |

Florida Dr. & Private Entrance

| POINT | STATION | OFFSET | SIDE | ELEVATION |
|-------|---------|--------|------|-----------|
| A     | 8+80.99 | 28.40  | RT   | 849.29    |
| B     | 8+80.93 | 23.40  | RT   | 849.27    |
| C     | 8+85.83 | 23.42  | RT   | 849.42    |
| D     | 8+85.86 | 28.40  | RT   | 849.44    |
| E     | 8+92.67 | 28.40  | RT   | 849.55    |
| F     | 8+92.67 | 23.40  | RT   | 849.62    |
| G     | 8+96.68 | 23.40  | RT   | 849.57    |
| H     | 8+97.95 | 28.40  | RT   | 849.57    |
| I     | 8+98.11 | 28.40  | RT   | 849.57    |
| J     | 8+97.17 | 23.27  | RT   | 849.57    |
| K     | 8+92.87 | 33.67  | RT   | 849.32    |
| L     | 8+98.12 | 33.47  | RT   | 849.36    |



ALPINE RD.

MODEL: Default  
FILE: Road - 100 - 1114848.dwg  
PLOT DATE: Feb-27-2020 09:26:21 AM

|                                     |            |           |
|-------------------------------------|------------|-----------|
| USER NAME = niki                    | DESIGNED - | REVISED - |
| PLOT SCALE = 42.1118' / in.         | DRAWN -    | REVISED - |
| PLOT DATE = Feb-27-2020 09:26:21 AM | CHECKED -  | REVISED - |
|                                     | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

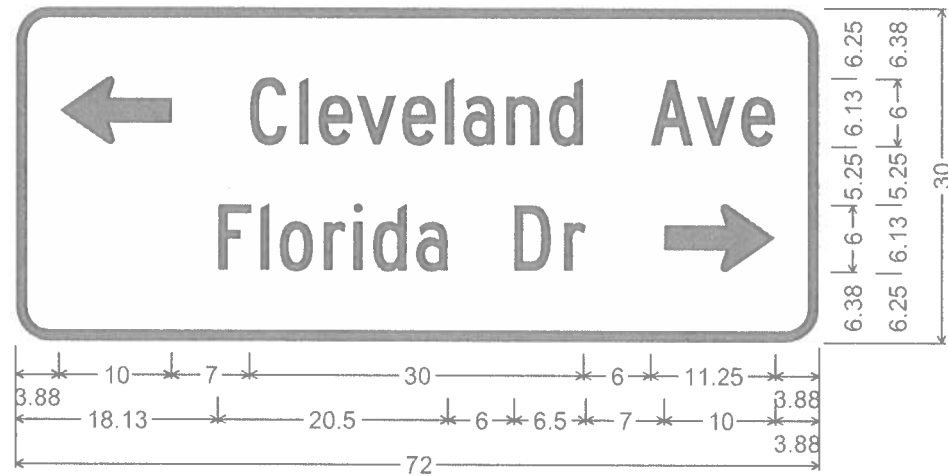
ALPINE AT CLEVELAND/FLORIDA  
ADA RAMPS

| F.A.P. RTE. | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|-------------|---------|-----------|--------------|-----------|
| 412         | 148TS   | Winnabago | 16           | 11        |

CONTRACT NO. 64M32

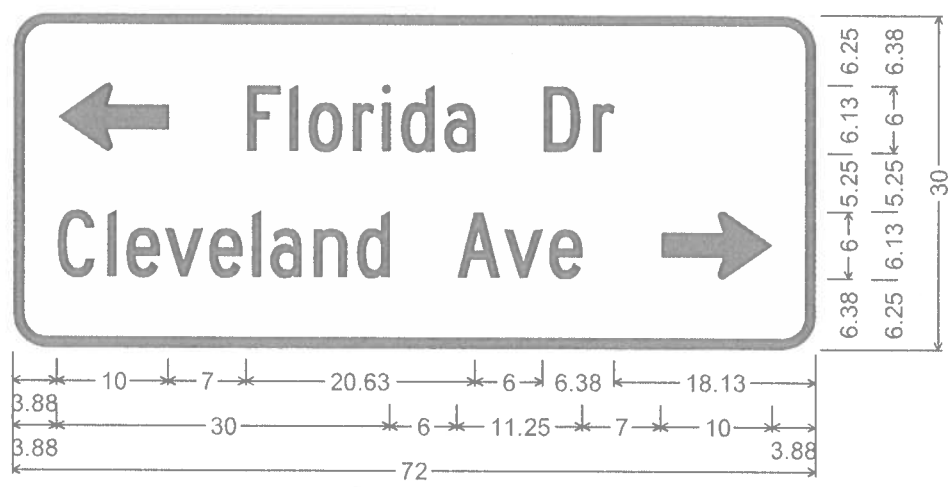
SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

ILLINOIS FED. AID PROJECT



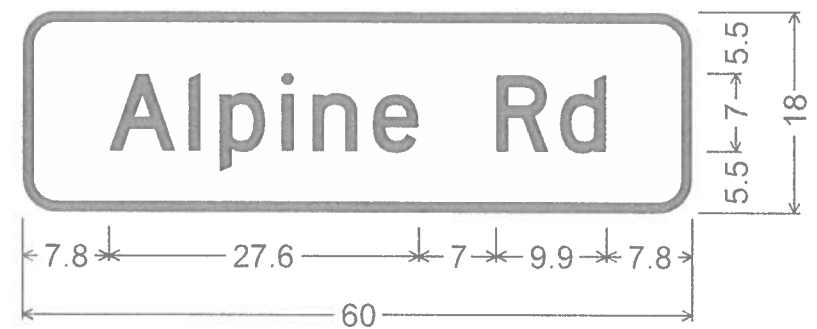
3.00" Radius, 1.00" Border, White on Green;  
 Standard Arrow Custom 10.00" X 6.13" 180°;  
 [Cleveland Ave] C 2K; [Florida Dr] C 2K;  
 Standard Arrow Custom 10.00" X 6.13" 0°;  
 Table of letter and object lefts.

|      |       |       |       |       |       |       |       |       |       |       |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ←    | C     | l     | e     | v     | e     | l     | a     | n     | d     | →     |
| 3.88 | 20.88 | 25.38 | 27.13 | 30.50 | 34.50 | 38.38 | 40.00 | 43.88 | 47.75 |       |
|      | A     | v     | e     |       |       |       |       |       |       |       |
|      | 56.88 | 61.00 | 65.00 |       |       |       |       |       |       |       |
|      | F     | l     | o     | r     | i     | d     | a     | D     | r     | →     |
|      | 18.13 | 21.88 | 23.63 | 27.50 | 30.25 | 32.00 | 35.75 | 44.63 | 49.13 | 58.13 |



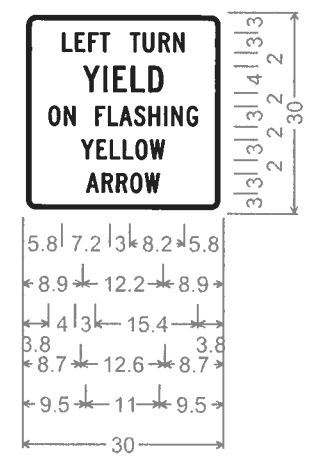
3.00" Radius, 1.00" Border, White on Green;  
 Standard Arrow Custom 10.00" X 6.13" 180°; [Florida Dr] C 2K;  
 [Cleveland Ave] C 2K;  
 Standard Arrow Custom 10.00" X 6.13" 0°;  
 Table of letter and object lefts.

|       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ←     | F     | l     | o     | r     | i     | d     | a     | D     | r     |
| 3.88  | 20.88 | 24.75 | 26.50 | 30.38 | 33.00 | 34.75 | 38.63 | 47.50 | 52.00 |
| C     | l     | e     | v     | e     | l     | a     | n     | d     |       |
| 3.88  | 8.38  | 10.13 | 13.50 | 17.50 | 21.38 | 23.00 | 26.88 | 30.75 |       |
| A     | v     | e     | →     |       |       |       |       |       |       |
| 39.88 | 44.00 | 48.00 | 58.13 |       |       |       |       |       |       |



3.0" Radius, 1.0" Border, White on Green;  
 [Alpine Rd] D 2K 120% spacing;  
 Table of letter and object lefts.

|     |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|
| A   | l    | p    | i    | n    | e    | R    | d    |
| 7.8 | 14.8 | 17.5 | 23.1 | 25.9 | 31.3 | 42.4 | 48.1 |



R10-1109;  
 1.9" Radius, 0.8" Border, 0.5" Indent, Black on White;  
 [LEFT TURN] C 2K;  
 [YIELD] C 2K;  
 [ON FLASHING] C 2K;  
 [YELLOW] C 2K;  
 [ARROW] C 2K;

MODEL Default FILE NAME: p:\projects\4413\Operations\Traffic\Signs\Sheet\02\_64M32.tbl.dgn

|                                     |            |           |
|-------------------------------------|------------|-----------|
| USER NAME = hllkl                   | DESIGNED - | REVISED - |
| PLOT SCALE = 42.1118" / in.         | DRAWN -    | REVISED - |
| PLOT DATE = Feb 27 2020 09:26:30 AM | CHECKED -  | REVISED - |
|                                     | DATE -     | REVISED - |

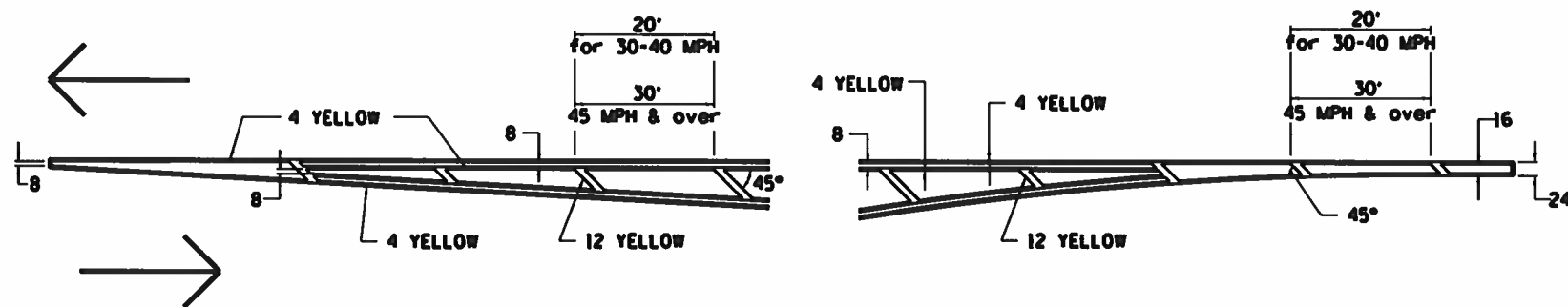
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

|                             |       |         |        |
|-----------------------------|-------|---------|--------|
| ALPINE AT FLORIDA/CLEVELAND |       |         |        |
| SIGN DETAILS                |       |         |        |
| SCALE:                      | SHEET | OF      | SHEETS |
|                             |       |         |        |
| STA.                        |       | TO STA. |        |

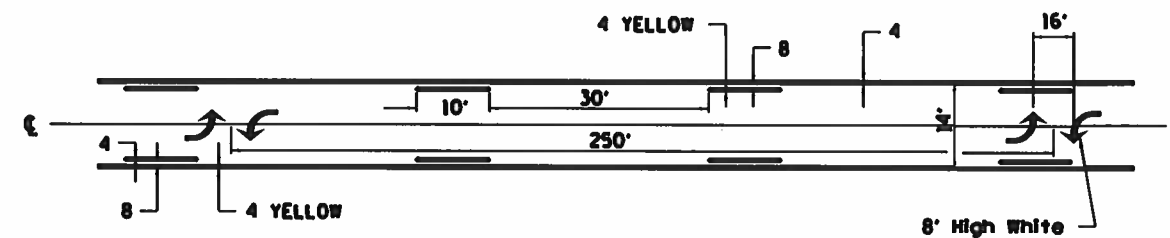
|                          |         |           |              |           |
|--------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 412                      | 148TS   | WINNEBAGO | 16           | 12        |
| CONTRACT NO. 64M32       |         |           |              |           |
| ILLINOIS FED AID PROJECT |         |           |              |           |

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

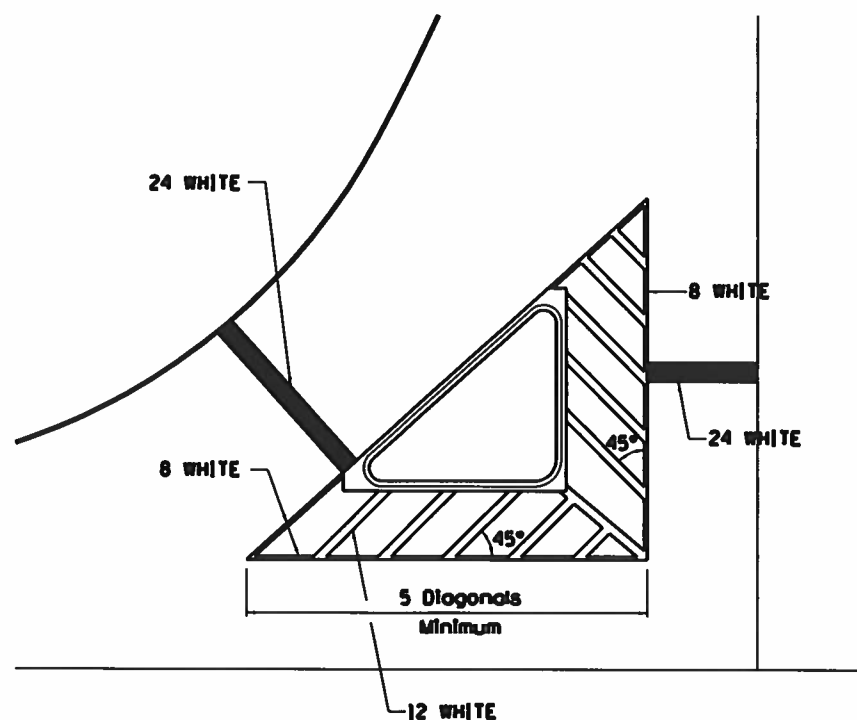


## MEDIAN PAVEMENT MARKING



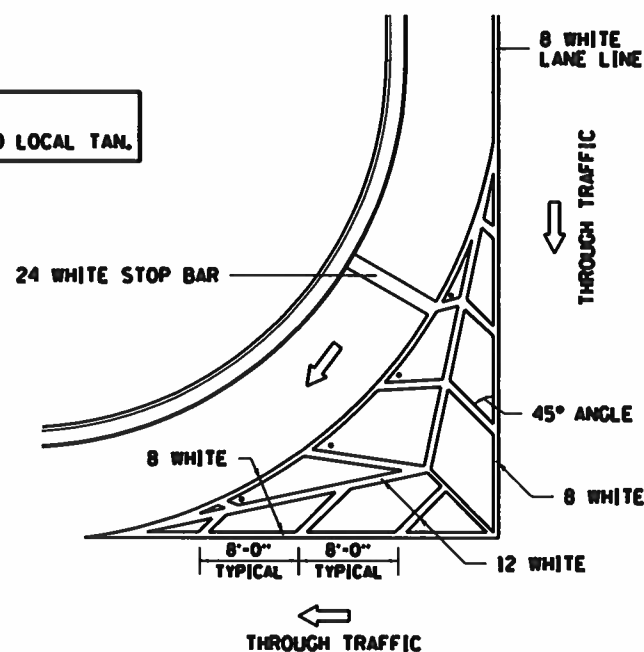
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH



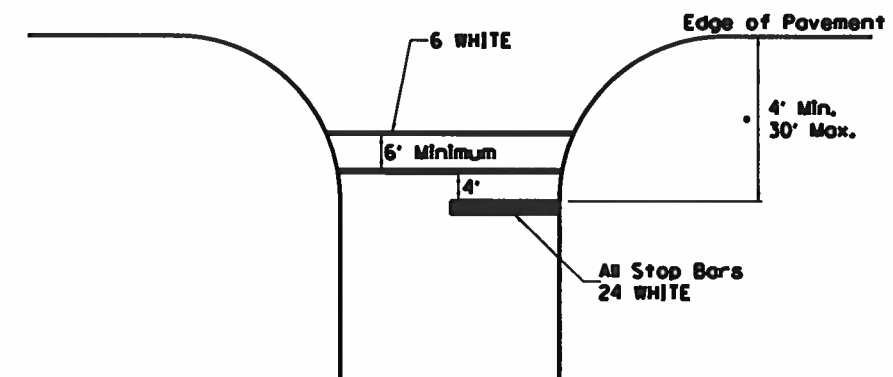
## TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:  
• 45° TO LOCAL TAN.



## STANDARD CROSSWALK MARKING

See Schedules for Locations

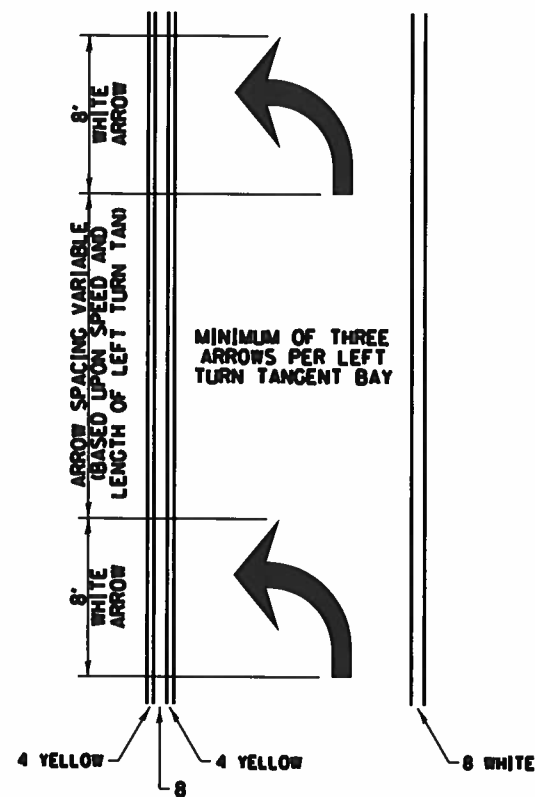


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

|   |                  |   |                   |   |                                |   |         |           |              |           |
|---|------------------|---|-------------------|---|--------------------------------|---|---------|-----------|--------------|-----------|
| FILE NAME *   | USER NAME * h111 | DESIGNED -                              | REVISED - 6-27-14 | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE.                                     | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| pw\planroom\d01\illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\64M32 | h111             | DRAMMona\Traffic\Signal Sheets\02.64M32 | REVISED - 3-05-12 |   |                                | 412   | 14015   | WINNEBAGO | 16           | 13        |
| PLOT SCALE * 42.1118' / in.   | CHECKED -        | REVISOR -                               |                   |   |                                | CONTRACT NO. 64M32                              |         |           |              |           |
| PLOT DATE * Feb-27-2020 9:37:05 AM  | DATE -           | REVISOR -                               |                   |   |                                | FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT |         |           |              |           |

# TYPICAL PAVEMENT MARKINGS

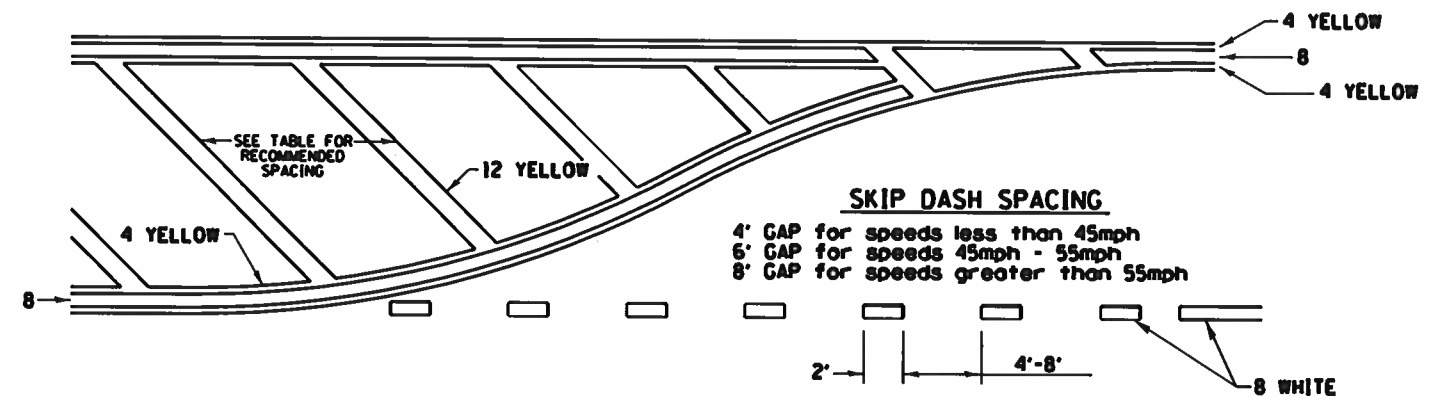
## ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

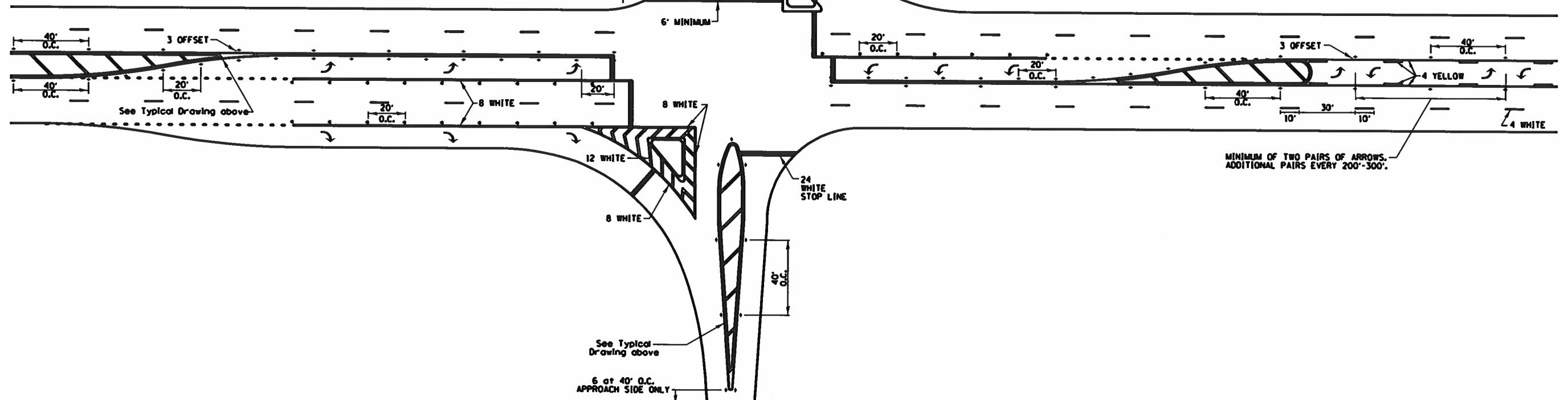
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

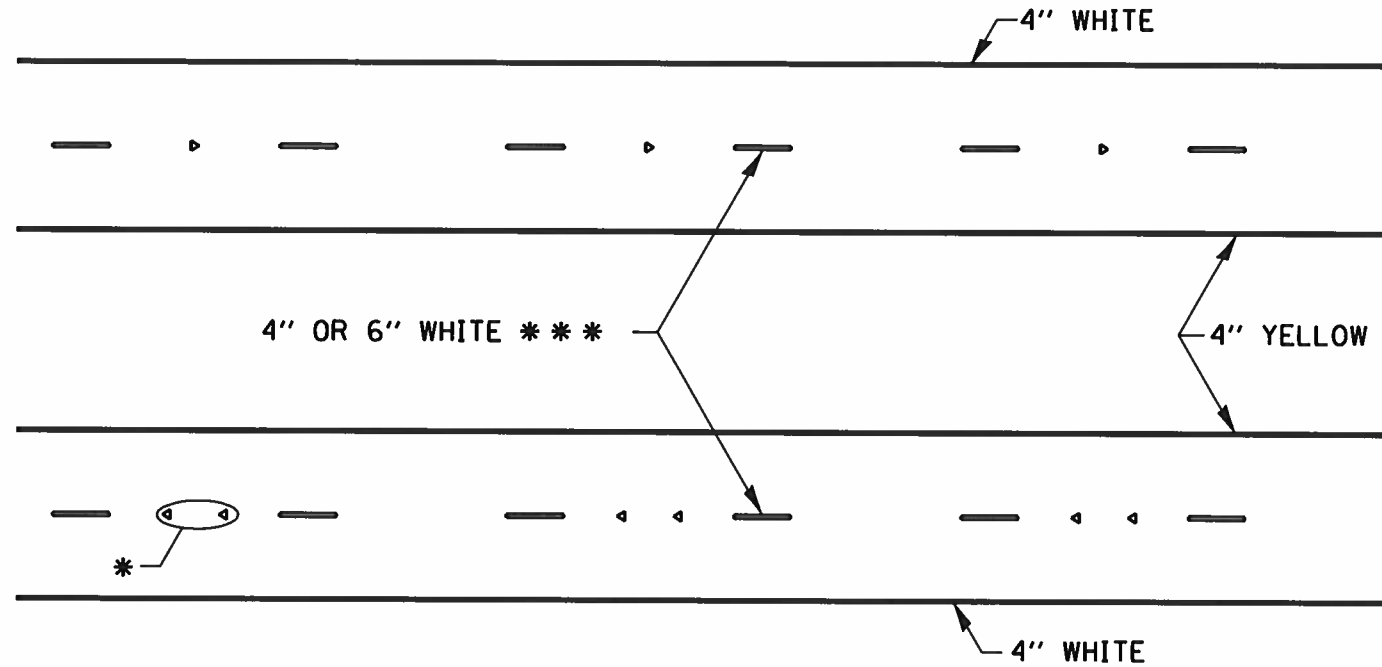
| Speed Limit Range | Continuous Median Area | Intersection Channelization | Objects (Islands) |
|-------------------|------------------------|-----------------------------|-------------------|
| less than 30MPH   | 50'                    | 15'                         | 10'               |
| 30-40MPH          | 75'                    | 20'                         | 15'               |
| 45MPH & over      | 75'                    | 30'                         | 20'               |

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



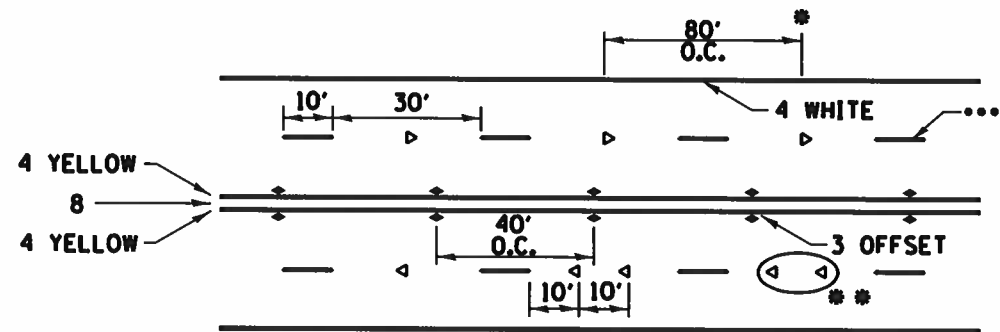
|   |                             |            |                   |   |                                |   |         |           |              |           |  |
|---|-----------------------------|------------|-------------------|---|--------------------------------|---|---------|-----------|--------------|-----------|--|
| FILE NAME *   | USER NAME * hllk            | DESIGNED - | REVISED - 6-27-14 | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE.                                     | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |  |
| pl\p\enr\con\do\illinois.gov\PI001\Documents\DOT Offices\District 2\Projects\B4H32\DRAMA\Traffic\Signal Sheets\02.64H32 | PLOT SCALE * 42.1118 1/ in. | CHECKED -  | REVISED - 3-05-12 |   |                                | 412   | 18015   | WINNEBAGO | 16           | 14        |  |
| PLOT DATE * Feb-27-2020 09:37:14 AM   | DATE -                      | REVISED -  | REVISED -         |   |                                | CONTRACT NO. 62M32                              |         |           |              |           |  |
| SCALE: SHEET NO. OF SHEETS STA. TO STA.   |                             |            |                   |   |                                | FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT |         |           |              |           |  |

# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS. USE DOUBLE MARKERS WHEN ADT > 20,000.

## MULTI-LANE / DIVIDED

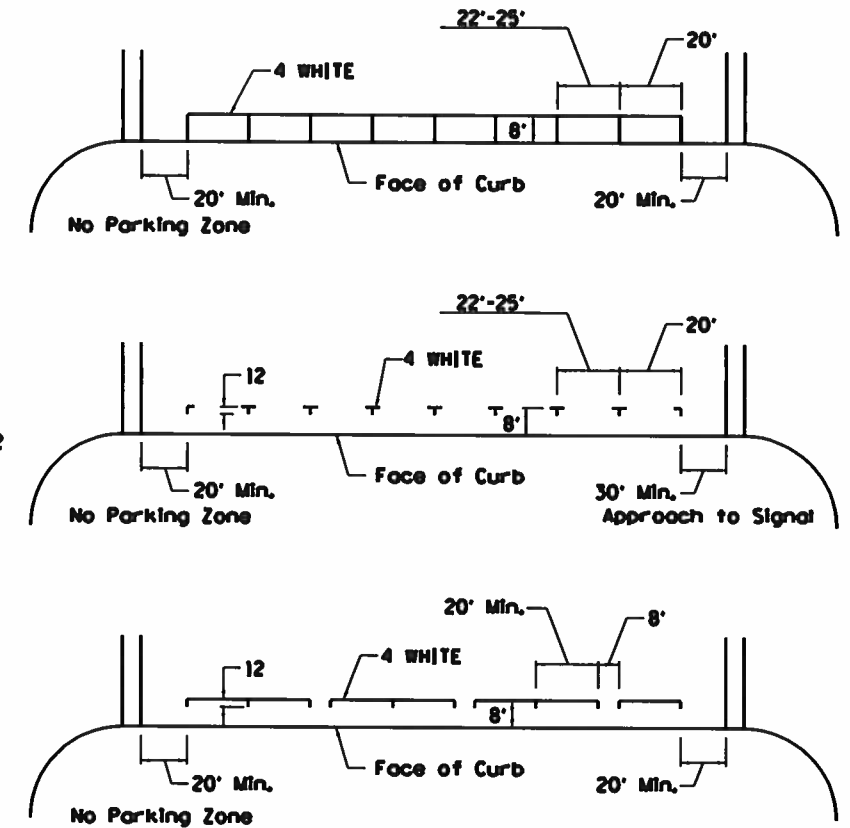


- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT ≥ 20,000
- CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

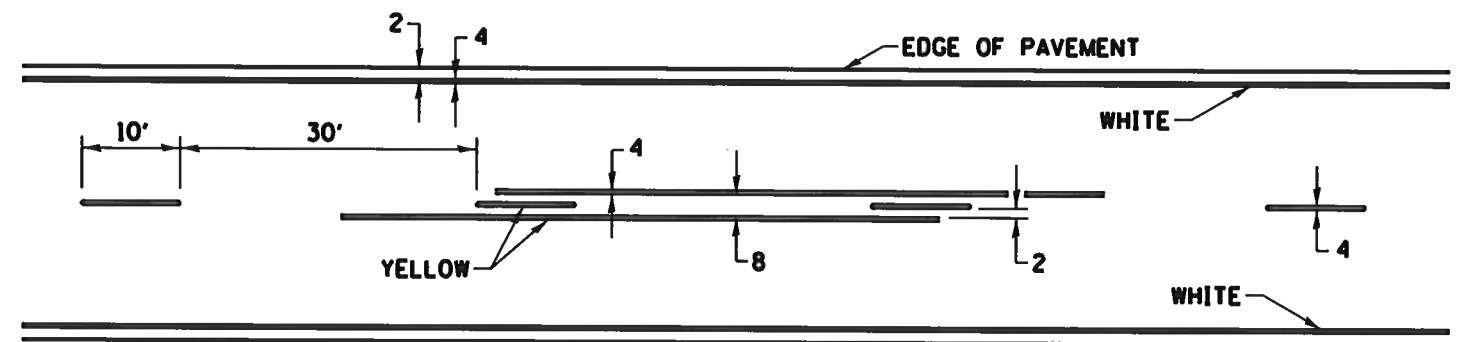
## MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

## TYPICAL PARKING SPACING



## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



## SYMBOLS

|   |   |            |                    |   |                                |   |         |           |              |           |  |
|---|---|------------|--------------------|---|--------------------------------|---|---------|-----------|--------------|-----------|--|
| FILE NAME *                               | USER NAME * hllhl                           | DESIGNED - | REVISED - 6-27-14  | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE.                                     | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |  |
| pw\plervcom\d01\illinois.gov\PIV1001\Docu | anta\1001 Offices\District 2\Projects\64H32 | Checked -  | REVISED - 8-27-13  |   |                                | 412   | 14815   | WINNEBAGO | 16           | 15        |  |
|   | PLT SCALE = 42.1118' / in.                  | CHECKED -  | REVISED - 11-28-12 |   |                                | CONTRACT NO. 64H32                              |         |           |              |           |  |
|   | PLT DATE = Feb-27-2020 9:37:22 AM           | DATE -     | REVISED -          |   |                                | FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT |         |           |              |           |  |



Illinois Department of Transportation  
Division of Highways  
IDOT

### SOIL BORING LOG

Page 1 of 1

Date 3/27/18

ROUTE FAP 412 DESCRIPTION Traffic Signal Upgrades on Alpine Road at Florida Drive/Cleveland Avenue LOGGED BY N. White  
SECTION 148TS LOCATION Rockford - N32, SEC. , TWP. 44N, RNG. 2E  
COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO. SE Quadrant Latitude Longitude Northing Easting  
Station \_\_\_\_\_

BORING NO. B-1a  
Station 45' S. of Center of Int.  
Offset 27.00ft E of CL NB lanes  
Ground Surface Elev. 98.80 ft

| Description                        | Depth (ft) | Bulge (in) | Shear (tsf) | Penetration (%) | SPT (blows) | Soil Properties          |                       |                        |       |  |
|------------------------------------|------------|------------|-------------|-----------------|-------------|--------------------------|-----------------------|------------------------|-------|--|
|                                    |            |            |             |                 |             | Surface Water Elev. (ft) | Stream Bed Elev. (ft) | Groundwater Elev. (ft) | Notes |  |
| 4" Asphalt; 6.5" Aggregate Subbase | 0.00       |            |             |                 |             |                          |                       |                        |       |  |
| STIFF black SILTY CLAY LOAM        | 96.80      | 1          |             | 24.0            |             |                          |                       |                        |       |  |
|                                    | 95.30      | 4          | P           |                 |             |                          |                       |                        |       |  |
| STIFF brown SANDY LOAM             | 92.80      | 2          | 1.0         | 18.0            |             |                          |                       |                        |       |  |
|                                    | 90.30      | 6          | 0.5         | 10.0            |             |                          |                       |                        |       |  |
| MEDIUM brown SANDY LOAM TILL       | 87.80      | 6          | 0.7         | 11.0            |             |                          |                       |                        |       |  |
| VERY STIFF brown SANDY LOAM TILL   | 85.30      | 10         | 2.2         | 8.0             |             |                          |                       |                        |       |  |
|                                    | 82.80      | 17         | 4.1         | 8.0             |             |                          |                       |                        |       |  |
| HARD brown SANDY LOAM TILL         | 80.30      | 19         | 4.2         | 7.0             |             |                          |                       |                        |       |  |
|                                    | 77.80      | 24         | 4.2         | 7.0             |             |                          |                       |                        |       |  |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
IDOT

### SOIL BORING LOG

Page 1 of 1

Date 3/28/18

ROUTE FAP 412 DESCRIPTION Traffic Signal Upgrades on Alpine Road at Louisiana Road LOGGED BY N. White  
SECTION 148TS LOCATION Rockford - NW 32, SEC. , TWP. 44N, RNG. 2E  
COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO. S. Center Raised Median Latitude Longitude Northing Easting  
Station \_\_\_\_\_

BORING NO. B-1b  
Station 43' S. of Center of Int.  
Offset 22.00ft E of CL SB lanes  
Ground Surface Elev. 101.50 ft

| Description                      | Depth (ft) | Bulge (in) | Shear (tsf) | Penetration (%) | SPT (blows) | Soil Properties          |                       |                        |       |  |
|----------------------------------|------------|------------|-------------|-----------------|-------------|--------------------------|-----------------------|------------------------|-------|--|
|                                  |            |            |             |                 |             | Surface Water Elev. (ft) | Stream Bed Elev. (ft) | Groundwater Elev. (ft) | Notes |  |
| 4" Concrete                      | 0.00       |            |             |                 |             |                          |                       |                        |       |  |
| STIFF brown SANDY LOAM           | 99.50      | 2.0        | 12.0        |                 |             |                          |                       |                        |       |  |
|                                  | 98.00      | 8          | 2.0         | 11.0            |             |                          |                       |                        |       |  |
| No Recovery.                     | 95.50      | 3          |             |                 |             |                          |                       |                        |       |  |
| STIFF brown SANDY LOAM TILL      | 93.00      | 4          | 1.6         | 8.0             |             |                          |                       |                        |       |  |
|                                  | 90.50      | 22         | 2.9         | 7.0             |             |                          |                       |                        |       |  |
| VERY STIFF brown SANDY LOAM TILL | 88.00      | 40         | 2.7         | 7.0             |             |                          |                       |                        |       |  |
|                                  | 85.50      | 44         | 4.2         | 7.0             |             |                          |                       |                        |       |  |
| HARD brown SANDY LOAM TILL       | 83.00      | 35         | 2.5         | 7.0             |             |                          |                       |                        |       |  |
|                                  | 80.30      | 46         |             |                 |             |                          |                       |                        |       |  |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

MODEL: Default  
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|                                     |            |           |
|-------------------------------------|------------|-----------|
| USER NAME = hwhk                    | DESIGNED - | REVISED - |
| PLOT SCALE = 42.1118 / in.          | DRAWN -    | REVISED - |
| PLOT DATE = Feb-27-2020 09:37:30 AM | CHECKED -  | REVISED - |
|                                     | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                              |  |
|------------------------------|--|
| ALPINE AT PROJECT INTERSECTS |  |
| BORING LOGS                  |  |
| SCALE: _____                 | SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____ |

|                          |         |           |              |           |
|--------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 412                      | 148TS   | WINNEBAGO | 16           | 16        |
| CONTRACT NO. 64M32       |         |           |              |           |
| ILLINOIS FED AID PROJECT |         |           |              |           |