

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

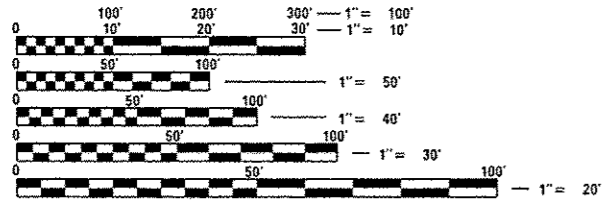
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|---------------------|-----------|--------------------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2015-0521 | COOK | 31 | 1 |
| FED. ROAD DIST. NO. | ILLINOIS | CONTRACT NO. 62B06 | | |

**PROPOSED
HIGHWAY PLANS**
FAI ROUTE 94: I-90/94 (DAN RYAN EXPRESSWAY)
CANAL STREET TO MARTIN LUTHER KING DRIVE
GUARDRAIL AND MISCELLANEOUS SAFETY IMPROVEMENTS
SECTION: 2015-0521
PROJECT: ACHSIP-0094 (403)
COOK COUNTY
C-91-381-15

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA
SPEED LIMIT: 55 M.P.H.
ADT VARIES: 127,000 - 304,000 (2014)

PROJECT LOCATED IN THE CITY OF CHICAGO



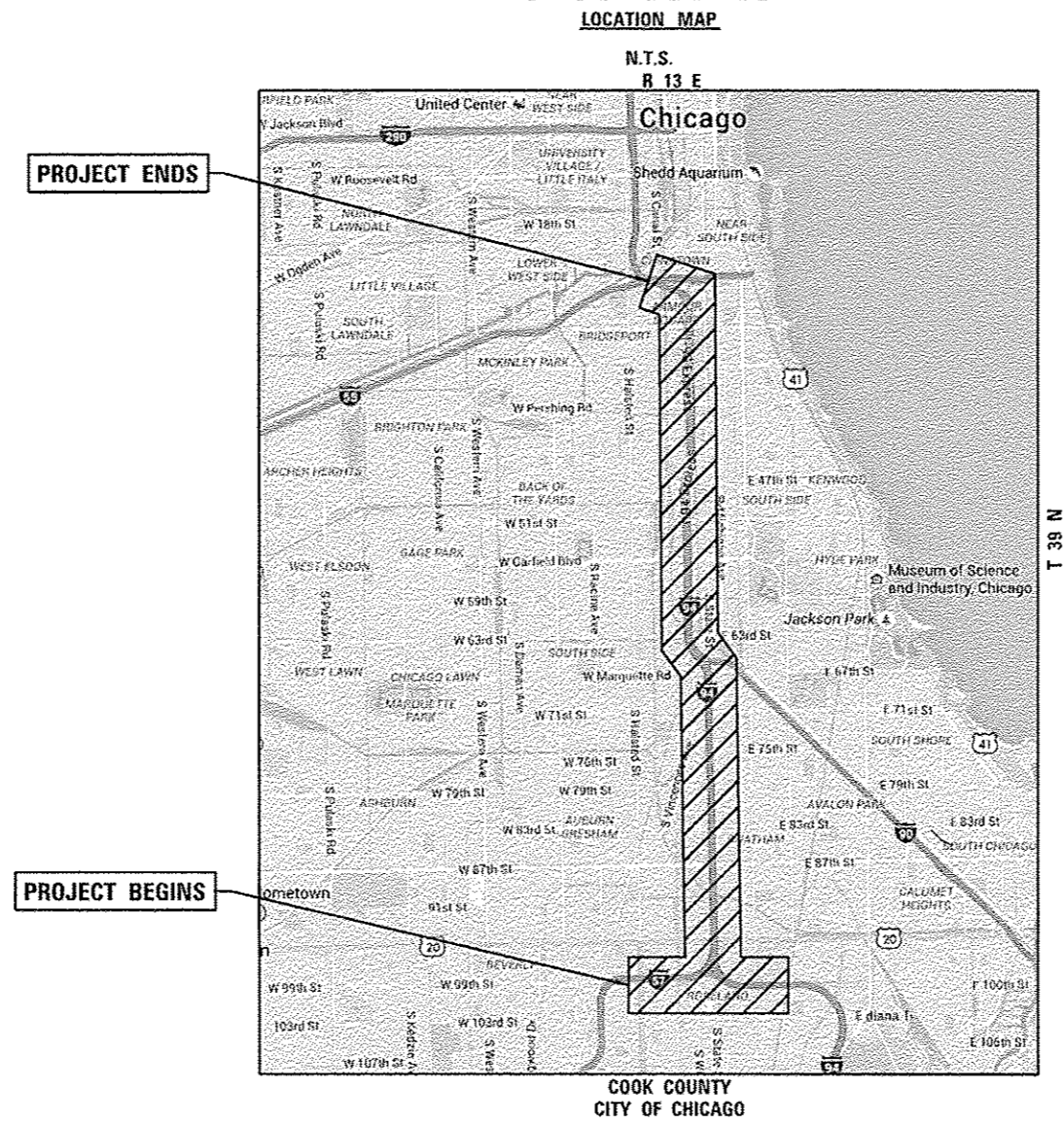
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

DIGGER
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

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

PROJECT ENGINEER: BENJAMIN HARTMAN (815) 385-1778
PROJECT MANAGER: DANIEL WILGREEN (847) 705-4240

CONTRACT NO. 62B06



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED December 15, 2015
John F. ...
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Jan 29, 2016
Maureen N. Addis PE/EA
acting ENGINEER OF DESIGN AND ENVIRONMENT
Jan 29, 2016
Omer Osman PE/EA
DIRECTOR OF HIGHWAYS/CHIEF ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL
B. D. Hartman
BENJAMIN D. HARTMAN, P.E.
EXPIRES: 11-30-17

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 OR DIGGER AT 312-744-700 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- REMOVAL OF DAMAGED MATERIALS WILL INCLUDE DISMANTLING, LOADING, HAULING AND DISPOSAL. THE WORK SITE WILL BE LEFT IN A SAFE AND ORDERLY CONDITION.
- NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR.
- REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTING BARRICADES. NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.
- THE CORING REQUIRED FOR THE INSTALLATION OF GUARDRAIL POSTS WITHIN CONCRETE AND ASPHALT AREAS IS INCLUDED IN THE COST OF THE STEEL PLATE BEAM GUARDRAIL.
- GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.
- THE REMOVAL OF EXISTING CONCRETE CURB TO PROVIDE A DEPRESSED CURB ALONG THE TERMINAL SECTION, PER DISTRICT ONE DETAIL (80-34), SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST FOR THE TERMINAL SECTION.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.
- SPECIAL CARE SHALL BE TAKEN TO PROTECT ANY METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) FACILITIES. NO ACCESS HATCHES OR MANHOLE COVERS ON MWRD STRUCTURES AND MANHOLES SHALL BE BURIED OR COVERED. NO DEBRIS SHALL ENTER MWRD STRUCTURES, SEWERS, OR FACILITIES. MWRD PERSONNEL SHALL HAVE 24 HOUR PER DAY UNRESTRICTED ACCESS TO ALL MWRD FACILITIES. THE CONTRACTOR SHALL CONTACT MWRD PERSONNEL AT 312-751-5101 FOR LOCATION OF MWRD FACILITIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL".
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE RESIDENT ENGINEER SHALL CONTACT THE EXPRESSWAY FIELD ENGINEER AT 847-705-4153 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL VERIFY THE EXISTING TYPE/HEIGHT OF EXISTING GUARDRAIL BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION SHALL MATCH THE HEIGHT OF THE EXISTING GUARDRAIL.
- THE HOT-MIX ASPHALT SHOULDER 6" SHALL BE INSTALLED PER DISTRICT 1 DETAIL (80-34) INCLUDED ON SHEET 21.

LIST OF STATE STANDARDS

| STANDARD NO. | DESCRIPTION |
|--------------|--|
| 630001-10 | STEEL PLATE BEAM GUARDRAIL |
| 630301-06 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 631011-09 | TRAFFIC BARRIER TERMINAL, TYPE 2 |
| 631031-13 | TRAFFIC BARRIER TERMINAL, TYPE 6 |
| 631046-04 | TRAFFIC BARRIER TERMINAL, TYPE 10 |
| 635006-03 | REFLECTOR AND TERMINAL MARKER PLACEMENT |
| 635011-02 | REFLECTOR MARKER AND MOUNTING DETAILS |
| 701101-04 | OFF-RO OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE |
| 701400-08 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 701401-09 | LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 701406-09 | LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY |
| 701411-09 | LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH |
| 701421-07 | LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >= 45 MPH TO 55 MPH |
| 701426-07 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH |
| 701428 | TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY |
| 701446-06 | TWO LANE CLOSURE FREEWAY/EXPRESSWAY |
| 701901-04 | TRAFFIC CONTROL DEVICES |
| 720011-01 | METAL POSTS FOR SIGNS, MARKERS & DELINEATORS |

| HOT-MIX ASPHALT MIXTURE REQUIREMENTS | | |
|--|---------------------|-------------------------------------|
| MIXTURE TYPE | AIR VOIDS % Ndes | QUALITY MANAGEMENT PROGRAM (QMP) |
| SHOULDERS | | |
| HMA SHOULDER (HMA BINDER IL-19mm); 6" | 4.0% TO CYR. | QC/OA |
| QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA) | | |

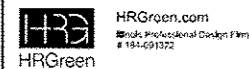
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76 -22". FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

COMPANY NAME: HRGreen
 PROJECT CONTACT: #PROJECT CONTACT#
 CLIENT: #CLIENT#
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 PLOT DRIVER: #Plotter.dwt
 PEN TABLE: #pen.tbl



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| PLOT SCALE: N.T.S. | CHECKED: TH | REVISED: |
| PLOT DATE: 12/14/2015 | DATE: 12/10/15 | REVISED: |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS,
AND GENERAL NOTES**

| | | | | | | | |
|---------------|-------------------------|--------------|------------------------------|-------------------|------------------|-----------------|-------------|
| SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | F.A.I. RTE. 90/94 | SECTION 2015-0521 | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 2 |
| | | | FED. ROAD DIST. NO. ILLINOIS | | FED. AID PROJECT | | |

CONTRACT NO. 62806

URBAN

| PAYCODE | ITEM DESCRIPTION | UNIT | TOTAL | SAFETY 90% FED 10% STATE 0021 |
|------------|--|--------|---------|--|
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 765 | 765 |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SO YD | 2,350 | 2,350 |
| 25000210 | SEEDING, CLASS 2A | ACRE | 0.5 | 0.5 |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 44 | 44 |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 44 | 44 |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 44 | 44 |
| 25100630 | EROSION CONTROL BLANKET | SO YD | 2,350 | 2,350 |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 627 | 627 |
| 44004250 | PAVED SHOULDER REMOVAL | SO YD | 170 | 170 |
| 48203021 | HOT-MIX ASPHALT SHOULDERS, 6" | SO YD | 2,785 | 2,785 |
| 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 7,087.5 | 7,087.5 |
| 63000017 | STEEL PLATE BEAM GUARDRAIL, TYPE D, 6 FOOT POSTS | FOOT | 287.5 | 287.5 |
| 63100045 | TRAFFIC BARRIER TERMINAL, TYPE 2 | EACH | 26 | 26 |
| 63100085 | TRAFFIC BARRIER TERMINAL, TYPE 6 | EACH | 1 | 1 |
| 63100105 | TRAFFIC BARRIER TERMINAL, TYPE 10 | EACH | 8 | 8 |
| 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 26 | 26 |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 262.5 | 262.5 |
| * 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 330 | 330 |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 6 | 6 |
| * 66900450 | SPECIAL WASTE PLANS AND REPORTS | L SUM | 1 | 1 |
| 67100100 | MOBILIZATION | LSUM | 1 | 1 |

* SPECIALTY ITEMS

URBAN

| PAYCODE | ITEM DESCRIPTION | UNIT | TOTAL | SAFETY 90% FED 10% STATE 0021 |
|------------|--|-------|--------|--|
| * 66900530 | SOIL DISPOSAL ANALYSIS | EACH | 6 | 6 |
| * 72400600 | RELOCATE SIGN PANEL ASSEMBLY - TYPE B | EACH | 5 | 5 |
| * 72800100 | TELESCOPING STEEL SIGN SUPPORT | FOOT | 75 | 75 |
| 78200410 | GUARDRAIL MARKERS, TYPE A | EACH | 138 | 138 |
| 78201000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 26 | 26 |
| X6430120 | REMOVE IMPACT ATTENUATORS, NO SALVAGE | EACH | 1 | 1 |
| X7011015 | TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | LSUM | 1 | 1 |
| Z0037300 | PAVEMENT GROOVING | SO YD | 61,555 | 61,555 |

* SPECIALTY ITEMS

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 CLIENT: HRGreen
 DATE PLOTTED: 12/9/2015 3:12:30 PM
 FILE NAME: 86150B46-02-aht-sum.dgn
 PLOT DRIVER: pltdrvr
 PEN TABLE: pen.tbl



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| FILE NAME: 86150B46-02-aht-sum.dgn | DRAWN: DS | REVISED: |
| PLOT SCALE: N.T.S. | CHECKED: TH | REVISED: |
| PLOT DATE: 12/9/2015 | DATE: 12/10/15 | REVISED: |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

| | | | | | | | | |
|---------------|-------------------------|--------------|-------------------|-------------------|-------------|-----------------|-------------|--------------------|
| SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | F.A.I. RTE. 90/94 | SECTION 2015-0521 | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 3 | CONTRACT NO. 62806 |
|---------------|-------------------------|--------------|-------------------|-------------------|-------------|-----------------|-------------|--------------------|

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

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm #184-001322
 DATE PLOTTED: 12/11/2015 12:05:15 PM
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 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plot.tbl

| | 20201200 | 21101615 | 25000210 | 25000400 | 25000500 | 25000600 | 25100630 | 40600275 | 44004250 | 48203021 | 63000001 | 63000017 | 63100045 | 63100085 | 63100105 | 63100167 | 63200310 | 72400600 | 72800100 | 78200410 | 78201000 | X6430120 | Z0037300 |
|---|---------------------|-----------------|---------------|--------------------|----------------------|---------------------|-----------------------|-----------------|--------------------|-----------------|----------------------|----------------------|------------------|------------------|-------------------|-----------------------|-----------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|---------------|
| | REM & DISP UNS MATL | TOPSOIL F & P 4 | SEEDING CL 2A | NITROGEN FERT NUTR | PHOSPHORUS FERT NUTR | POTASSIUM FERT NUTR | EROSION CONTR BLANKET | BIT MATLS PR CT | PAVED SHLD REMOVAL | HMA SHOULDERS 6 | SPBGR TY A 6FT POSTS | SPBGR TY D 6FT POSTS | TRAF BAR TERM T2 | TRAF BAR TERM T6 | TRAF BAR TERM T10 | TR BAR TRM T1 SPL TAN | GUARDRAIL REMOV | RELOC SIN PAN ASSY TB | TELES STL SIN SUPPORT | GUARDRAIL MKR TYPE A | TERMINAL MARKER - DA | REM IMP ATTEN NO SALV | PAVT GROOVING |
| | CU YD | SO YD | ACRE | POUND | POUND | POUND | SO YD | POUND | SO YD | SO YD | FOOT | FOOT | EACH | EACH | EACH | EACH | FOOT | EACH | FOOT | EACH | EACH | EACH | SO YD |
| LOCATION 1 | 42 | 167 | 0.03 | 3 | 3 | 3 | 167 | 40 | 24 | 177 | 500.0 | 0.0 | 0 | 0 | 0 | 1 | 37.5 | 5 | 75 | 7 | 1 | 0 | 0 |
| LOCATION 2 | 31 | 96 | 0.02 | 2 | 2 | 2 | 96 | 25 | 0 | 112 | 287.5 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 3 | 28 | 113 | 0.02 | 2 | 2 | 2 | 113 | 23 | 0 | 103 | 337.5 | 0.0 | 1 | 0 | 1 | 0 | 0.0 | 0 | 0 | 4 | 0 | 0 | 0 |
| LOCATION 4 | 33 | 108 | 0.02 | 2 | 2 | 2 | 108 | 28 | 0 | 123 | 325.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 5 | 22 | 92 | 0.02 | 2 | 2 | 2 | 92 | 19 | 0 | 84 | 275.0 | 0.0 | 1 | 0 | 1 | 0 | 0.0 | 0 | 0 | 4 | 0 | 0 | 0 |
| LOCATION 6 | 28 | 113 | 0.02 | 2 | 2 | 2 | 113 | 23 | 0 | 103 | 337.5 | 0.0 | 1 | 0 | 1 | 0 | 0.0 | 0 | 0 | 4 | 0 | 0 | 0 |
| LOCATION 7 | 8 | 8 | 0.00 | 0 | 0 | 0 | 8 | 7 | 0 | 31 | 25.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 8 | 21 | 58 | 0.01 | 1 | 1 | 1 | 58 | 17 | 0 | 77 | 175.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 9 | 19 | 50 | 0.01 | 1 | 1 | 1 | 50 | 16 | 0 | 70 | 150.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 10 | 25 | 75 | 0.02 | 1 | 1 | 1 | 75 | 21 | 0 | 93 | 225.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 11 | 26 | 79 | 0.02 | 1 | 1 | 1 | 79 | 22 | 0 | 96 | 237.5 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 12 | 15 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 287.5 | 2 | 0 | 2 | 0 | 0.0 | 0 | 0 | 8 | 0 | 0 | 0 |
| LOCATION 13 | 31 | 96 | 0.02 | 2 | 2 | 2 | 96 | 25 | 24 | 112 | 287.5 | 0.0 | 0 | 0 | 0 | 1 | 37.5 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 14 | 36 | 117 | 0.02 | 2 | 2 | 2 | 117 | 29 | 24 | 131 | 350.0 | 0.0 | 0 | 0 | 0 | 1 | 37.5 | 0 | 0 | 5 | 1 | 0 | 0 |
| LOCATION 15 | 18 | 46 | 0.01 | 1 | 1 | 1 | 46 | 15 | 0 | 66 | 137.5 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 16 | 16 | 38 | 0.01 | 1 | 1 | 1 | 38 | 13 | 0 | 58 | 112.5 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 17 | 26 | 75 | 0.02 | 1 | 1 | 1 | 75 | 21 | 0 | 93 | 225.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 18 | 21 | 58 | 0.02 | 1 | 1 | 1 | 58 | 17 | 0 | 77 | 175.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 19 | 23 | 67 | 0.02 | 1 | 1 | 1 | 67 | 19 | 0 | 85 | 200.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 20 | 10 | 42 | 0.01 | 1 | 1 | 1 | 42 | 9 | 0 | 38 | 125.0 | 0.0 | 1 | 0 | 1 | 0 | 0.0 | 0 | 0 | 4 | 0 | 0 | 0 |
| LOCATION 21 | 27 | 83 | 0.02 | 2 | 2 | 2 | 83 | 23 | 0 | 100 | 250.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 22 | 24 | 67 | 0.01 | 1 | 1 | 1 | 67 | 19 | 24 | 85 | 200.0 | 0.0 | 0 | 0 | 0 | 1 | 37.5 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 23 | 17 | 42 | 0.01 | 1 | 1 | 1 | 42 | 14 | 0 | 62 | 125.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 24 | 26 | 75 | 0.02 | 1 | 1 | 1 | 75 | 21 | 24 | 93 | 225.0 | 0.0 | 0 | 0 | 0 | 1 | 37.5 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 25 | 17 | 42 | 0.01 | 1 | 1 | 1 | 42 | 14 | 0 | 62 | 125.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 26 | 21 | 58 | 0.01 | 1 | 1 | 1 | 58 | 17 | 0 | 77 | 175.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 27 | 17 | 42 | 0.01 | 1 | 1 | 1 | 42 | 14 | 0 | 62 | 125.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 28 | 18 | 46 | 0.01 | 1 | 1 | 1 | 46 | 15 | 0 | 66 | 137.5 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 29 | 31 | 96 | 0.02 | 2 | 2 | 2 | 96 | 25 | 24 | 112 | 287.5 | 0.0 | 0 | 0 | 0 | 1 | 37.5 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 30 | 23 | 67 | 0.01 | 1 | 1 | 1 | 67 | 19 | 0 | 85 | 200.0 | 0.0 | 1 | 0 | 0 | 1 | 0.0 | 0 | 0 | 4 | 1 | 0 | 0 |
| LOCATION 31 | 37 | 133 | 0.03 | 2 | 2 | 2 | 133 | 30 | 3 | 134 | 437.5 | 0.0 | 1 | 1 | 2 | 0 | 0.0 | 0 | 0 | 6 | 0 | 1 | 0 |
| LOCATION 32 | 33 | 104 | 0.02 | 2 | 2 | 2 | 104 | 27 | 24 | 119 | 312.5 | 0.0 | 0 | 0 | 0 | 1 | 37.5 | 0 | 0 | 4 | 1 | 0 | 0 |
| EB I-90/94 LOCAL STA 3379+50 TO STA 3422+00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14,314 |
| WB I-90/94 LOCAL STA 4380+00 TO STA 4422+00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,834 |
| EB I-90/94 LOCAL STA 3514+04 TO STA 3549+31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18,076 |
| WB I-90/94 LOCAL STA 4513+60 TO STA 4548+74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16,331 |

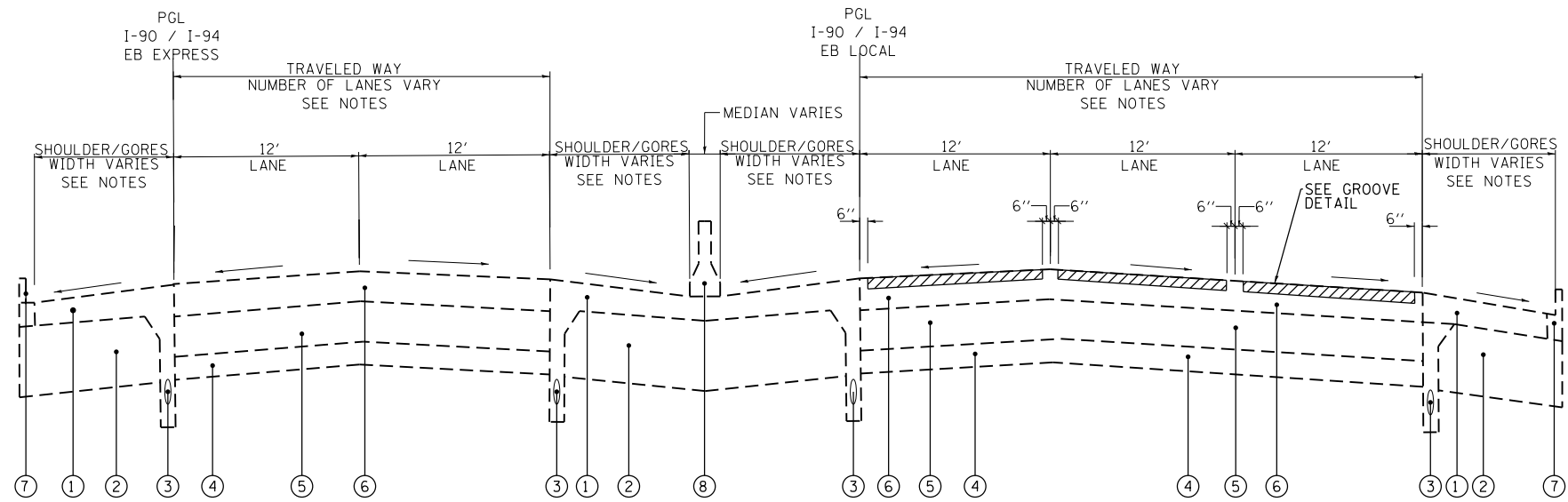
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| PLOT SCALE = N.T.S. | CHECKED - TH | REVISED - |
| PLOT DATE = 12/11/2015 | DATE - 12/11/15 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

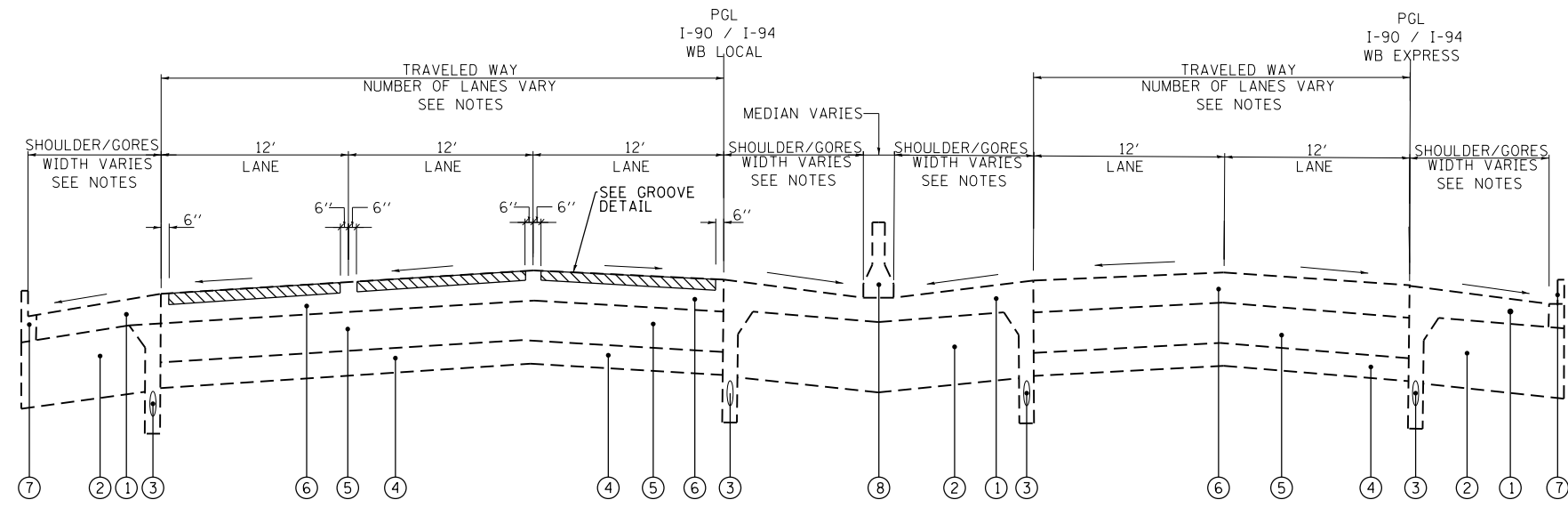
SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|--------------------|--------------|--------------------|--------------|
| F.A.I. RTE: 90/94 | SECTION: 2015-052I | COUNTY: COOK | TOTAL SHEETS: 31 | SHEET NO.: 4 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62B06 | |



I-90 / I-94 EB (DAN RYAN EXPRESSWAY)
TYPICAL SECTION
 STA. 3379+50 TO STA. 3422+00
 STA. 3514+04 TO STA. 3549+31



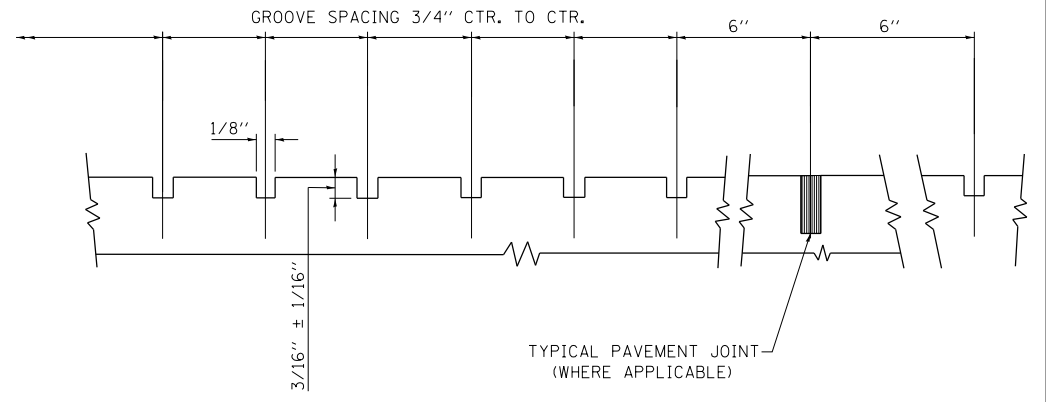
I-90 / I-94 WB (DAN RYAN EXPRESSWAY)
TYPICAL SECTION
 STA. 4380+00 TO STA. 4421+00
 STA. 4514+60 TO STA. 4548+74

NOTES

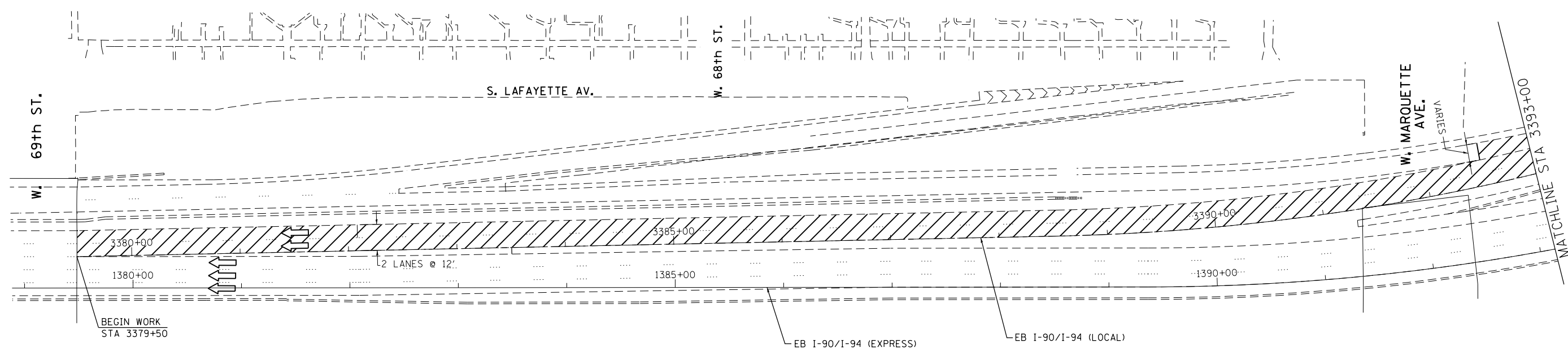
1. TYPICAL CROSS SECTION AND GROOVE DETAIL IS FOR INFORMATION ONLY. TYPICAL SECTION VARIES THROUGHOUT IMPROVEMENT AREA.
2. WORK THIS SHEET WITH THE PAVEMENT GROOVING PLANS. THE TRAVELED WAY VARIES THROUGHOUT THE PAVEMENT GROOVING AREA.
3. REFER TO THE "PAVEMENT GROOVING" SPECIAL PROVISION.
4. THE PAVEMENT GROOVING PATTERN SHOULD BE 1/8 INCH WIDE AND 3/16 ± 1/16 INCH DEEP AT 3/4 INCH CENTERS.
5. LIMITS DO NOT INCLUDE GORE AREAS OR SHOULDERS.
6. SUCCESSIVE PASSES OF THE GROOVING MACHINE SHALL NOT OVERLAP.
7. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSS SLOPES.

LEGEND

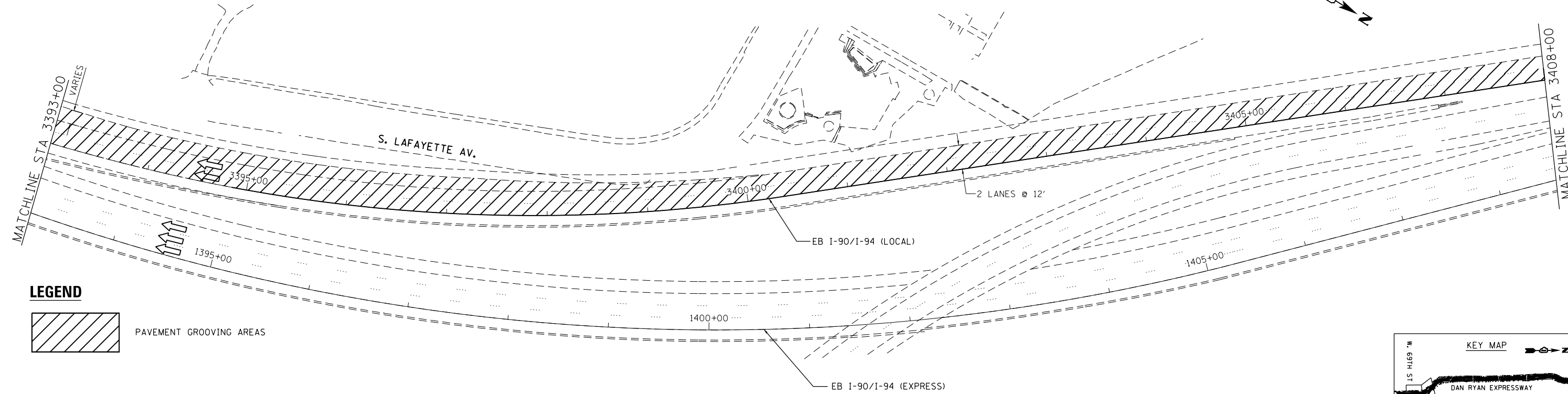
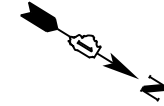
- PAVEMENT GROOVING AREAS
- ① EXISTING P.C.C. SHOULDER, 9"
- ② EXISTING CRUSHED STONE, THICKNESS VARIES
- ③ EXISTING 6" PIPE UNDERDRAIN
- ④ EXISTING AGGREGATE SUBGRADE, 12"
- ⑤ EXISTING STABILIZED SUB-BASE - HMA, 6"
- ⑥ EXISTING CONTINUOUSLY REINFORCED CONCRETE PAVEMENT, 14"
- ⑦ EXISTING CURB AND GUTTER, TYPE VARIES
- ⑧ EXISTING MEDIAN BARRIER WALL, WIDTH VARIES



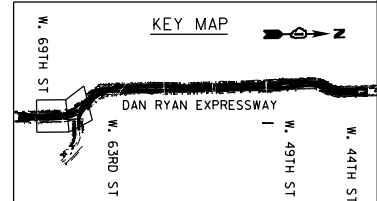
GROOVE DETAIL



NOTES:
LIMITS DO NOT INCLUDE THE GORE AREAS OR SHOULDERS. SEE TYPICAL SECTIONS.



LEGEND



| | | |
|-------------------------------|------------------|-----------|
| USER NAME = Mike Livernais | DESIGNED - MJL | REVISED - |
| DRAWN - MJL | REVISED - | |
| PLOT SCALE = 50:0.0000" / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/13/2015 | DATE - 8/21/2015 | REVISED - |

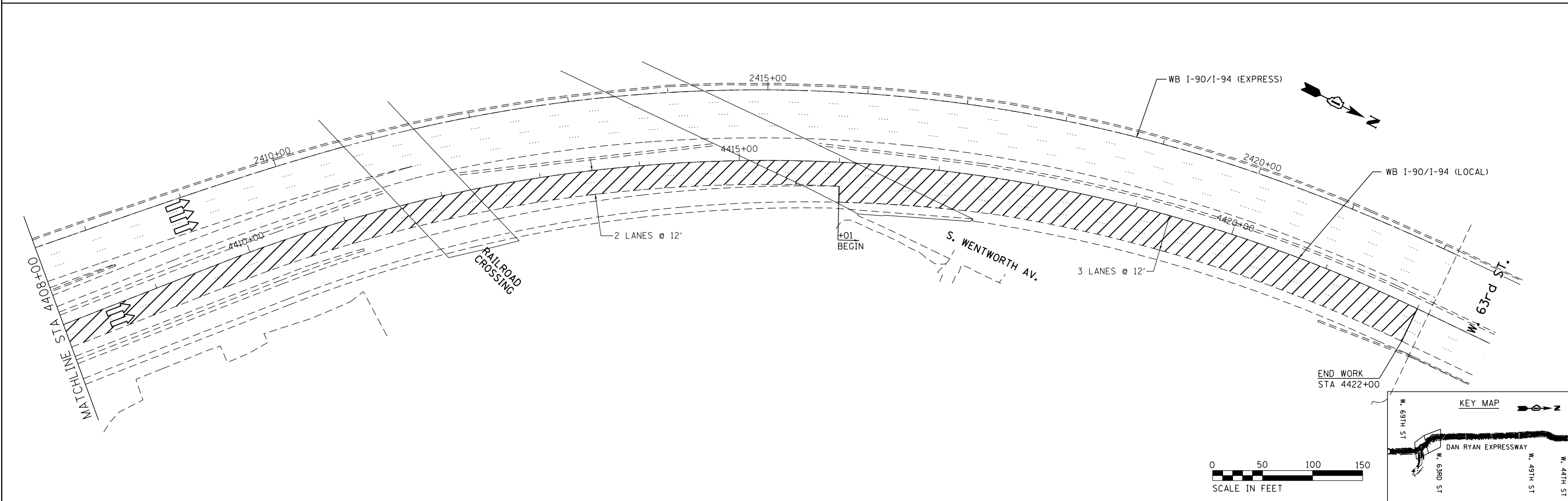
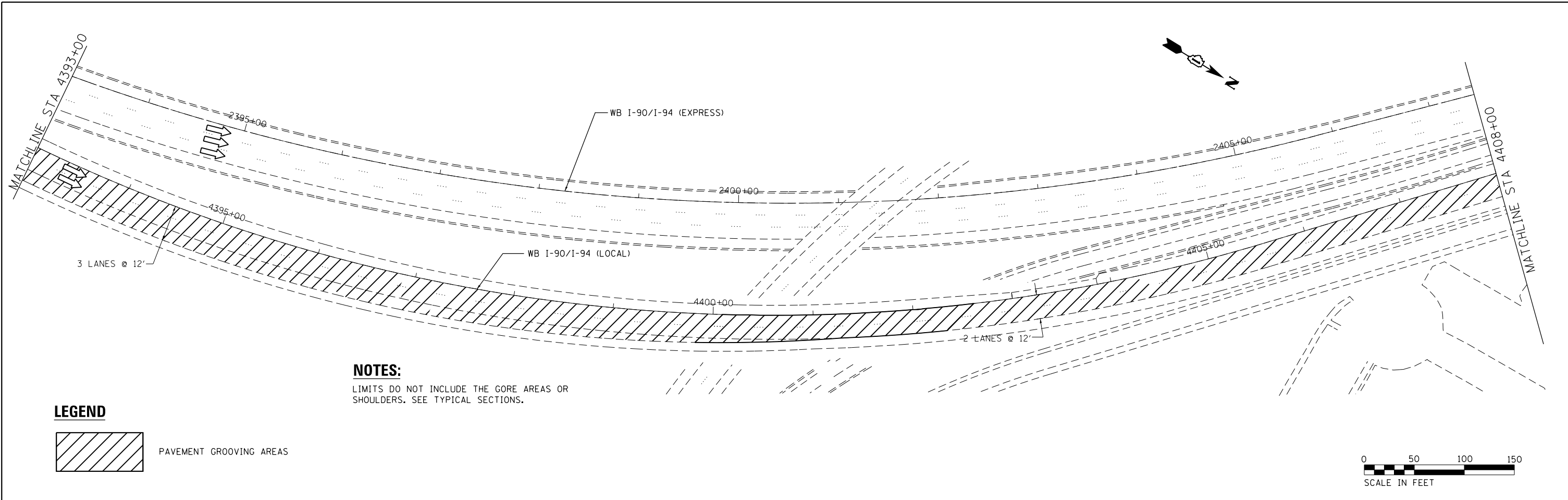
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90/I-94 - LOCAL LANES
PAVEMENT GROOVING PLANS**

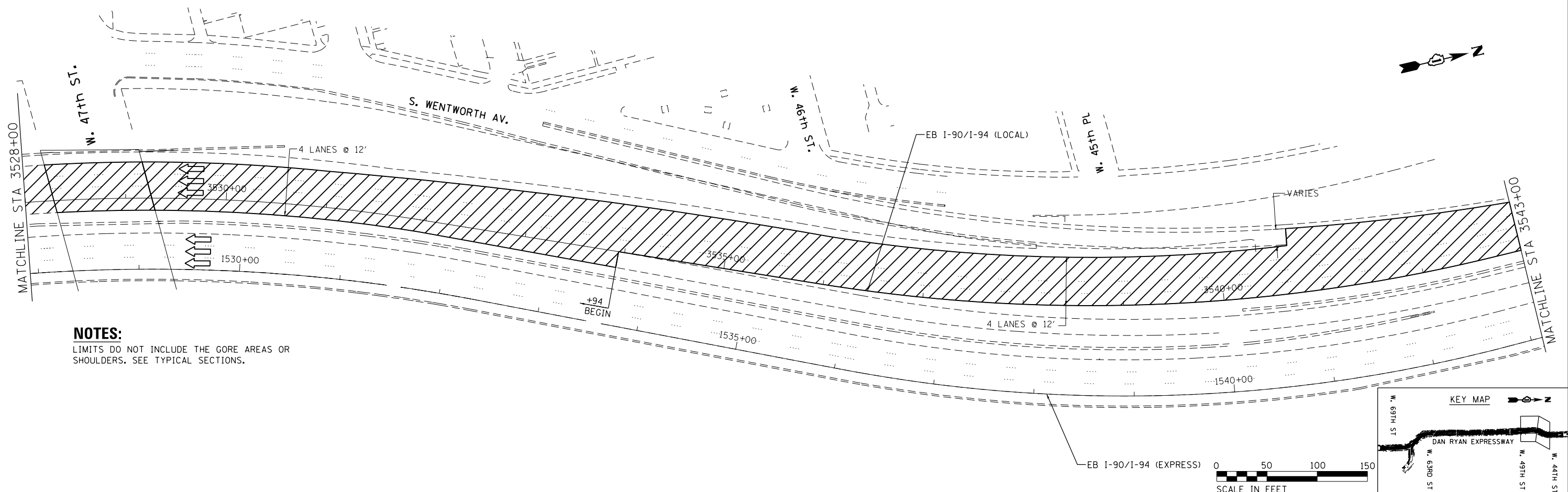
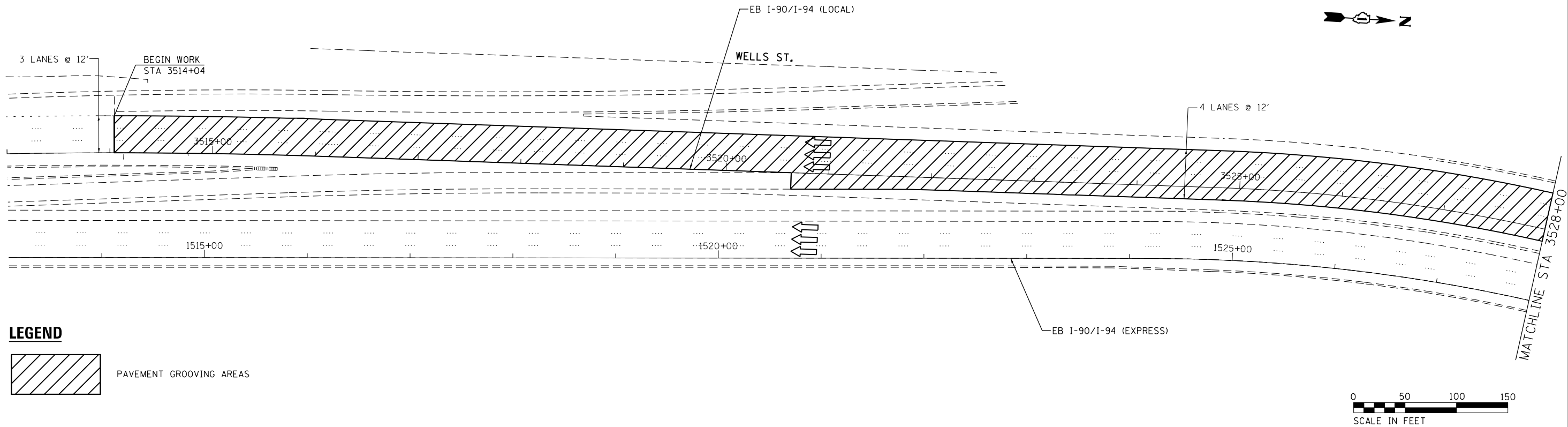
SCALE: 1:50 SHEET 1 OF 6 SHEETS STA. 3379+50 TO STA. 3408+00

| | | | | |
|--------------------|-------------------|-------------|-----------------|-------------|
| F.A.U. RTE. 90/94 | SECTION 2015-0521 | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 6 |
| CONTRACT NO. 62B06 | | | | |

ILLINOIS FED. AID PROJECT

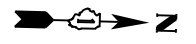
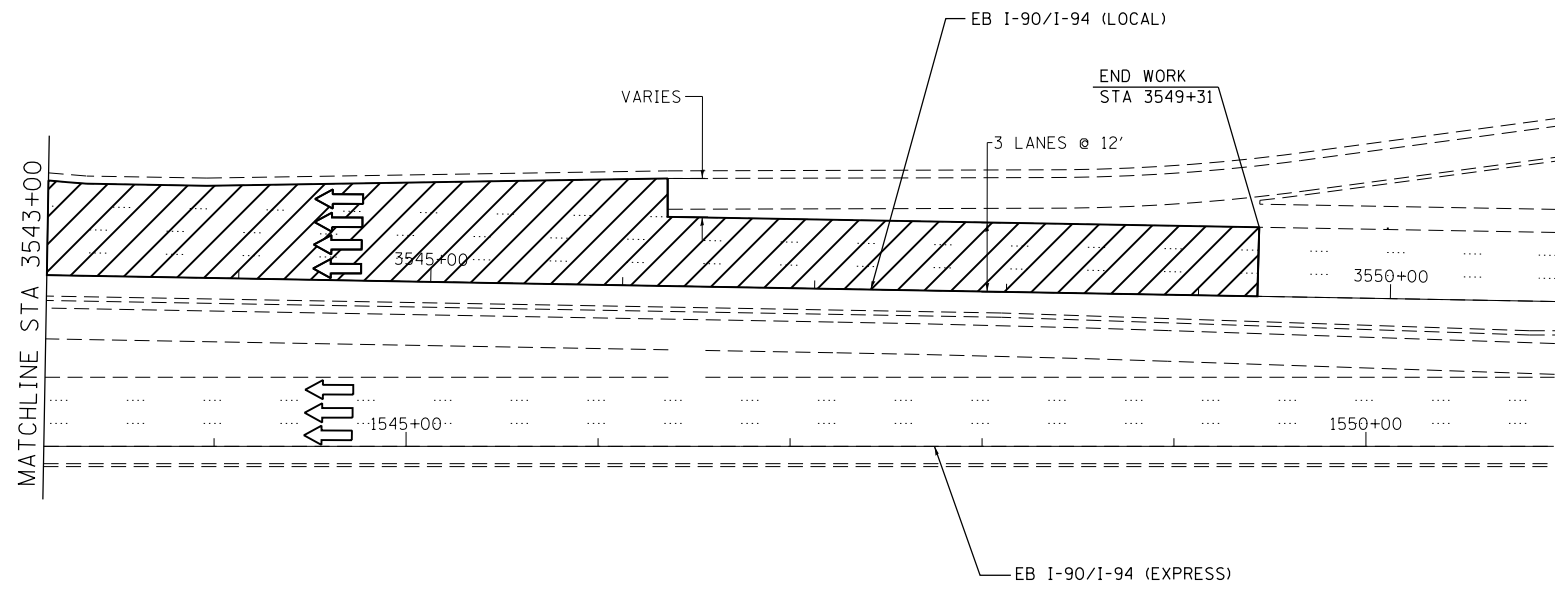


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|--|--------------------------------|------------------|-----------|---|--|--|---------------------|---------------------------|------------------------------|-------------|-----------------|-------------|
| | USER NAME = Mike Livernais | DESIGNED - MJL | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 / I-94 - LOCAL LANES PAVEMENT GROOVING PLANS | | | F.A.U. RTE. 90/94 | SECTION 2015-052I | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 8 |
| | PLOT SCALE = 50:0.0000' / 1" = | CHECKED - | REVISED - | | | | | CONTRACT NO. 62B06 | | | | |
| | PLOT DATE = 10/13/2015 | DATE - 8/21/2015 | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | |
| | | | | SCALE: 1:50 | | | SHEET 3 OF 6 SHEETS | | STA. 4393+00 TO STA. 4421+00 | | | |

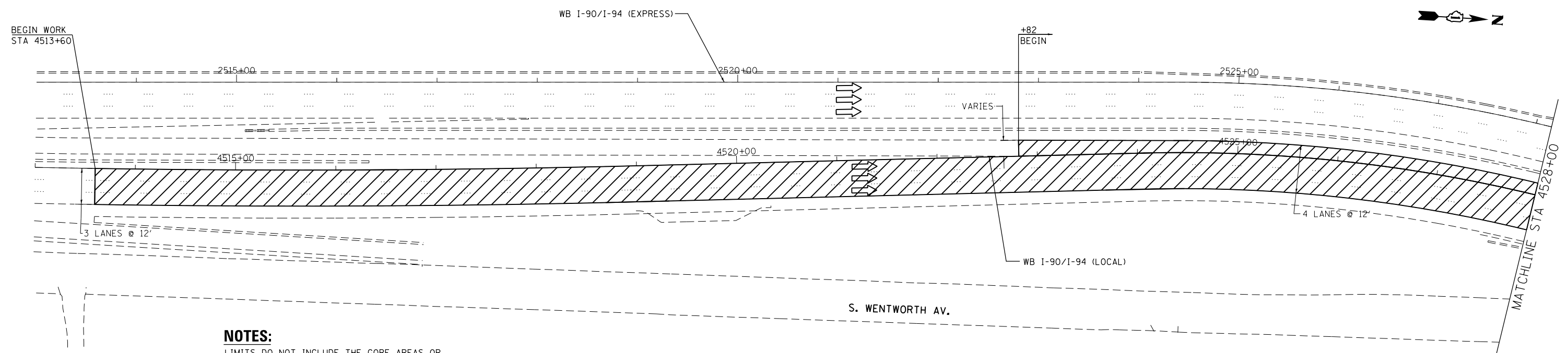
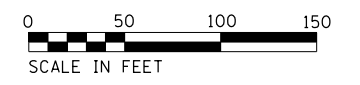


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|--|-------------------------------|------------------|-----------|---|--|--|--|---------------------------|-------------------|-------------|-----------------|-------------|
| | USER NAME = Mike Livernais | DESIGNED - MJL | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 / I-94 - LOCAL LANES PAVEMENT GROOVING PLANS | | | F.A.U. RTE. 90/94 | SECTION 2015-052I | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 9 |
| | PLOT SCALE = 50:0.0005' / in. | CHECKED - | REVISED - | | | | | CONTRACT NO. 62B06 | | | | |
| | PLOT DATE = 10/13/2015 | DATE - 8/21/2015 | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | |

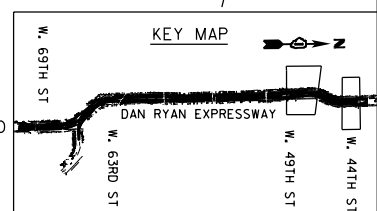
SCALE: 1:50 SHEET 4 OF 6 SHEETS STA. 3514+04 TO STA. 3543+00



LEGEND



NOTES:
LIMITS DO NOT INCLUDE THE GORE AREAS OR SHOULDERS. SEE TYPICAL SECTIONS.



| | | |
|-------------------------------|------------------|-----------|
| USER NAME = Mike Livernais | DESIGNED - MJL | REVISED - |
| | DRAWN - MJL | REVISED - |
| PLOT SCALE = 50:0.0005' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/13/2015 | DATE - 8/21/2015 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

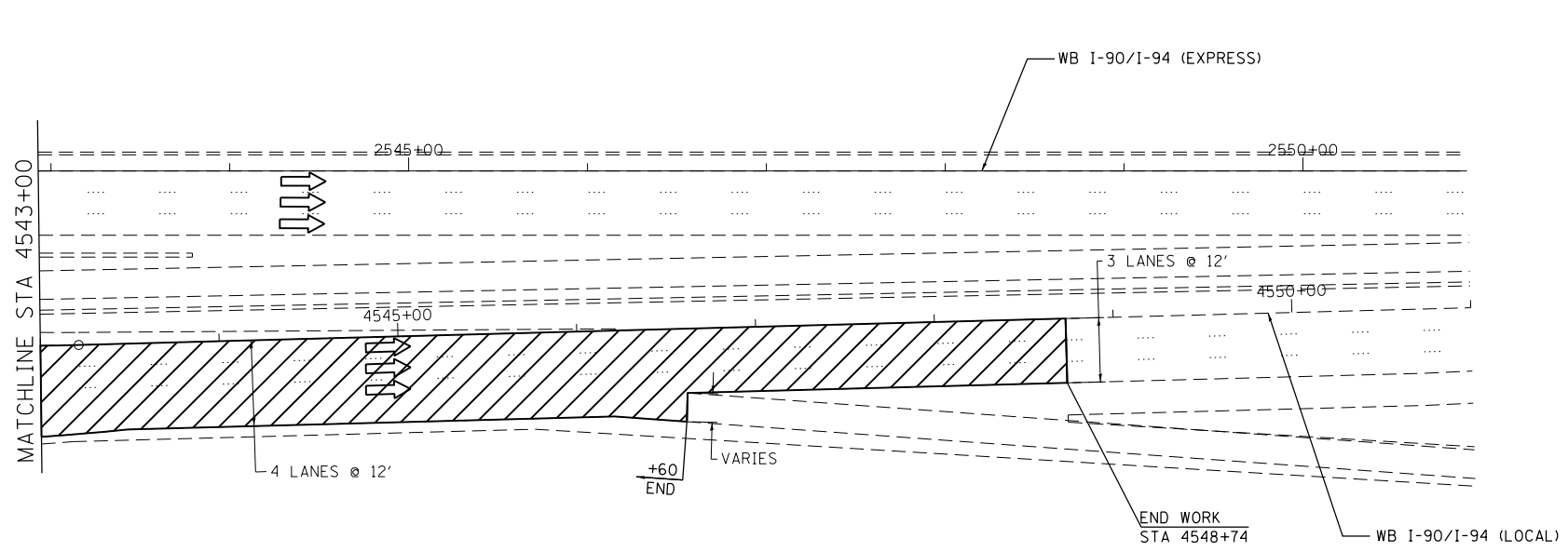
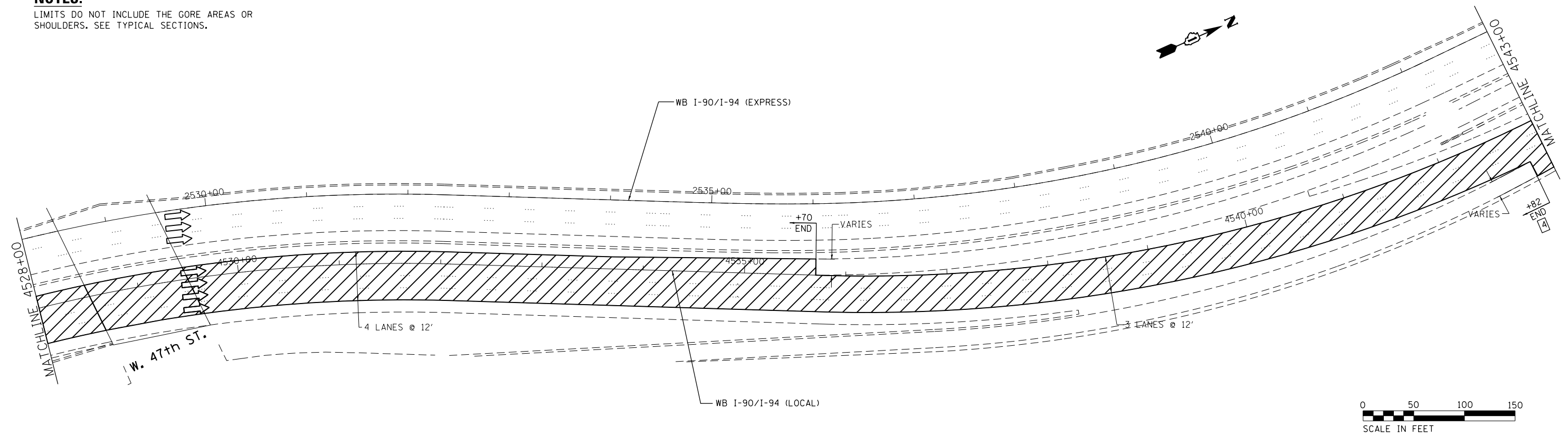
**I-90 / I-94 - LOCAL LANES
PAVEMENT GROOVING PLANS**

SCALE: 1:50 SHEET 5 OF 6 SHEETS STA. 4514+60 TO STA. 4528+00

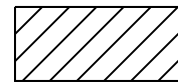
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| F.A.U. RTE. 90/94 | SECTION 2015-052I | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 10 |
| CONTRACT NO. 62B06 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTES:

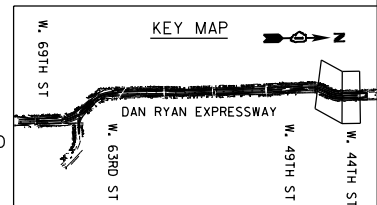
LIMITS DO NOT INCLUDE THE GORE AREAS OR SHOULDERS. SEE TYPICAL SECTIONS.



LEGEND



PAVEMENT GROOVING AREAS



| | | |
|-------------------------------|------------------|-----------|
| USER NAME = Mike Livernais | DESIGNED - MJL | REVISED - |
| | DRAWN - MJL | REVISED - |
| PLOT SCALE = 50:0.0005' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/13/2015 | DATE - 8/21/2015 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 / I-94 - LOCAL LANES
PAVEMENT GROOVING PLANS**

SCALE: 1:50 SHEET 6 OF 6 SHEETS STA. 4528+00 TO STA. 4548+74

| | | | | |
|---------------------------|-------------------|-------------|-----------------|--------------------|
| F.A.U. RTE. 90/94 | SECTION 2015-052I | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 11 |
| | | | | CONTRACT NO. 62B06 |
| ILLINOIS FED. AID PROJECT | | | | |



| ID# | Direction of Travel | Lane Group | Fixed Object to Shield | Approximate Location |
|-----|---------------------|------------------|---------------------------|------------------------------------|
| 1 | Northbound | Mainline | Sign Truss | 440' West of Wentworth Ave |
| 2 | Northbound | Ramp | Bridge Abutment | At the State St Bridge |
| 3 | Northbound | Mainline | Sign Truss | 350' West of Martin Luther King Dr |
| 4 | Southbound | Mainline | Sign Truss/Retaining Wall | 1120' South of 95th St |
| 5 | Southbound | Mainline | Sign Truss | 615' South of 95th St |
| 6 | Southbound | Mainline | Sign Truss | 825' South of 91st St |
| 7 | Northbound | Mainline | Sign Truss | 950' North of 91st St |
| 8 | Northbound | Mainline | Sign Truss | 450' North of 87th St |
| 9 | Southbound | Mainline | Sign Truss | 880' South of 83rd St |
| 10 | Northbound | Mainline | Sign Truss | 440' North of 83rd St |
| 11 | Northbound | Mainline | Sign Truss | 500' North of 75th St |
| 12 | Southbound | Express/Local | Barrier Extension | 50' South of Marquette Rd |
| 13 | Northbound | Local Lanes | Sign Truss | 400' South of I-90 |
| 14 | Northbound | Express Lanes | Bridge Pier | At I-90 |
| 15 | Southbound | Local Lanes | Sign Truss | 570' South of I-90 |
| 16 | Southbound | Local Lanes | Sign Truss | 320' South of 65th St |
| 17 | Southbound | Ramp | Bridge Abutment | 550' North of 63rd St |
| 18 | Northbound | Local Lanes | Sign Truss | 1200' North of 63rd St |
| 19 | Southbound | Local Lanes | Sign Truss | 1200' North of 63rd St |
| 20 | Southbound | Local Lanes | Sign Truss | 400' South of 59th St |
| 21 | Northbound | Local Lanes | Sign Truss | 800' South of 57th St |
| 22 | Southbound | Local Lanes | Sign Truss | 800' South of 57th St |
| 23 | Southbound | Local Lanes | Sign Truss | 825' South of 51st St |
| 24 | Northbound | Local Lanes | Sign Truss | 380' South of 51st St |
| 25 | Northbound | Local Lanes | Sign Truss | 400' North of 51st St |
| 26 | Southbound | Local Lanes | Sign Truss | 830' North of 51st St |
| 27 | Northbound | Local Lanes | Sign Truss | 1000' South of 47th St |
| 28 | Southbound | Local Lanes | Sign Truss | 450' South of 47th St |
| 29 | Southbound | Local Lanes | Sign Truss | 300' North of 47th St |
| 30 | Southbound | Local Lanes | Sign Truss | 1270' South of 43rd St |
| 31 | Northbound | Local lanes/Ramp | Bridge Pier | 585' South of Pershing Rd |
| 32 | Southbound | Local Lanes | Sign Truss | 365' North of Pershing Rd |

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartha
 DATE PLOTTED: 12/9/2015 3:37:37 PM
 FILE NAME: 86150046-02-sht-LocationMap.dgn
 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plot.tbl



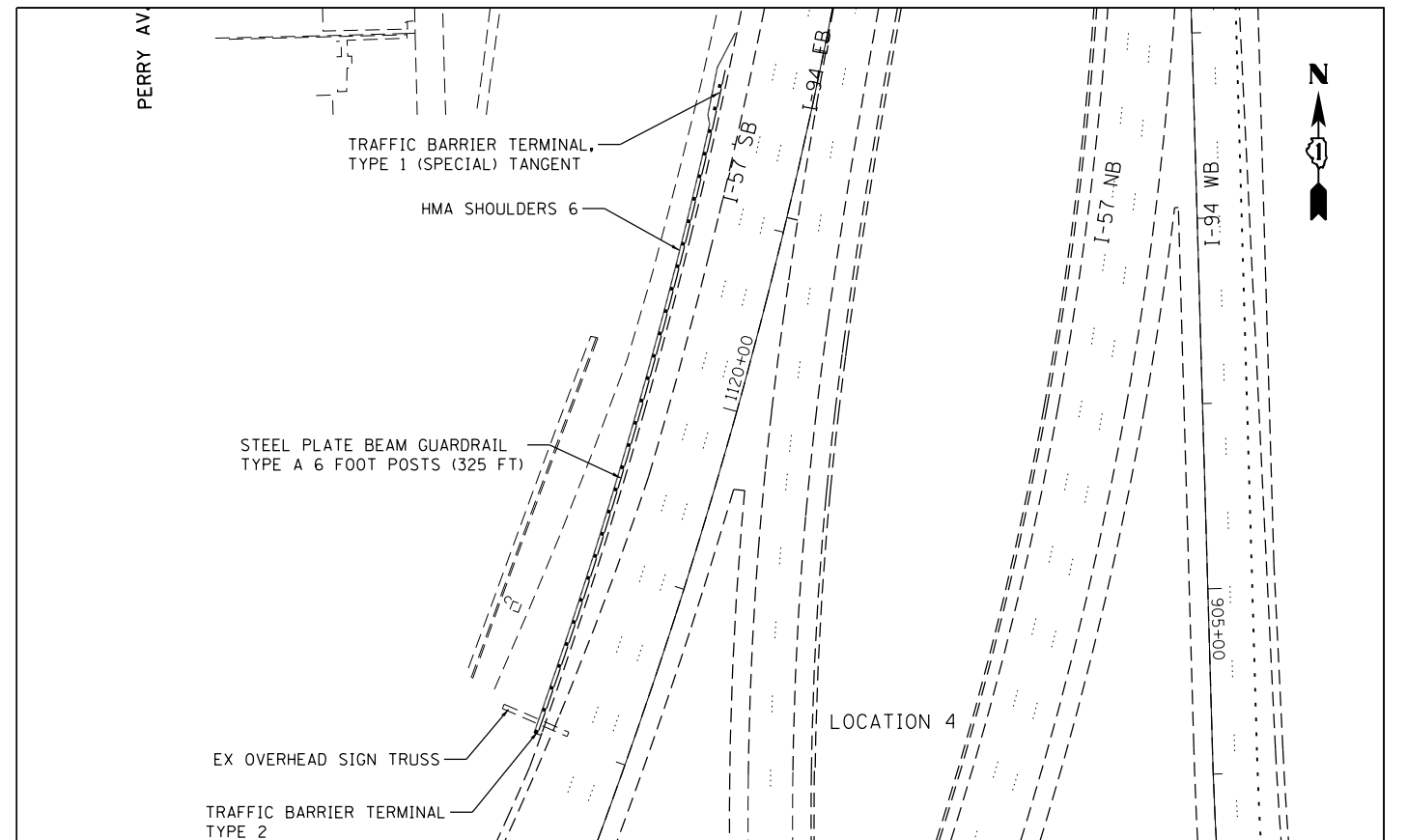
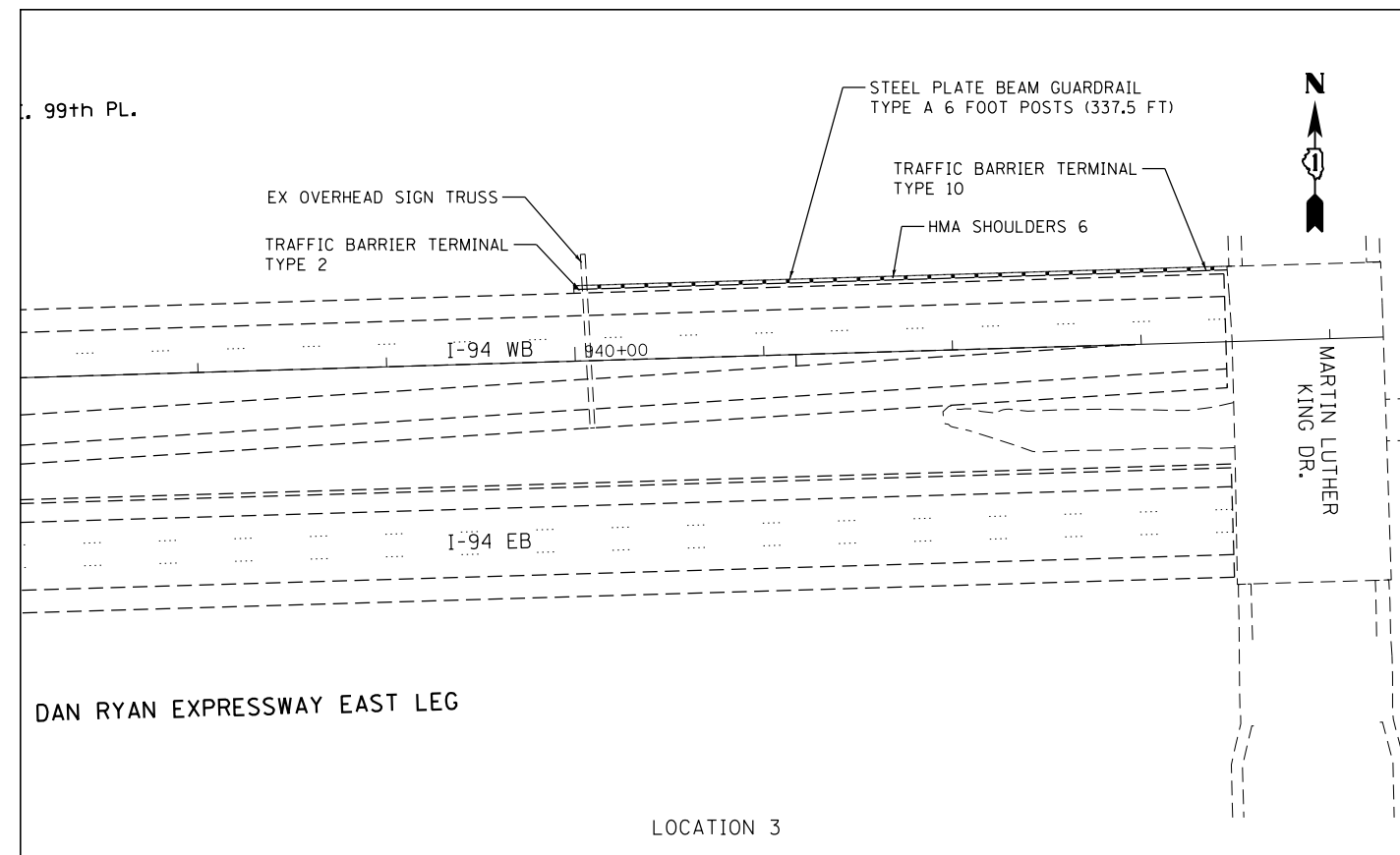
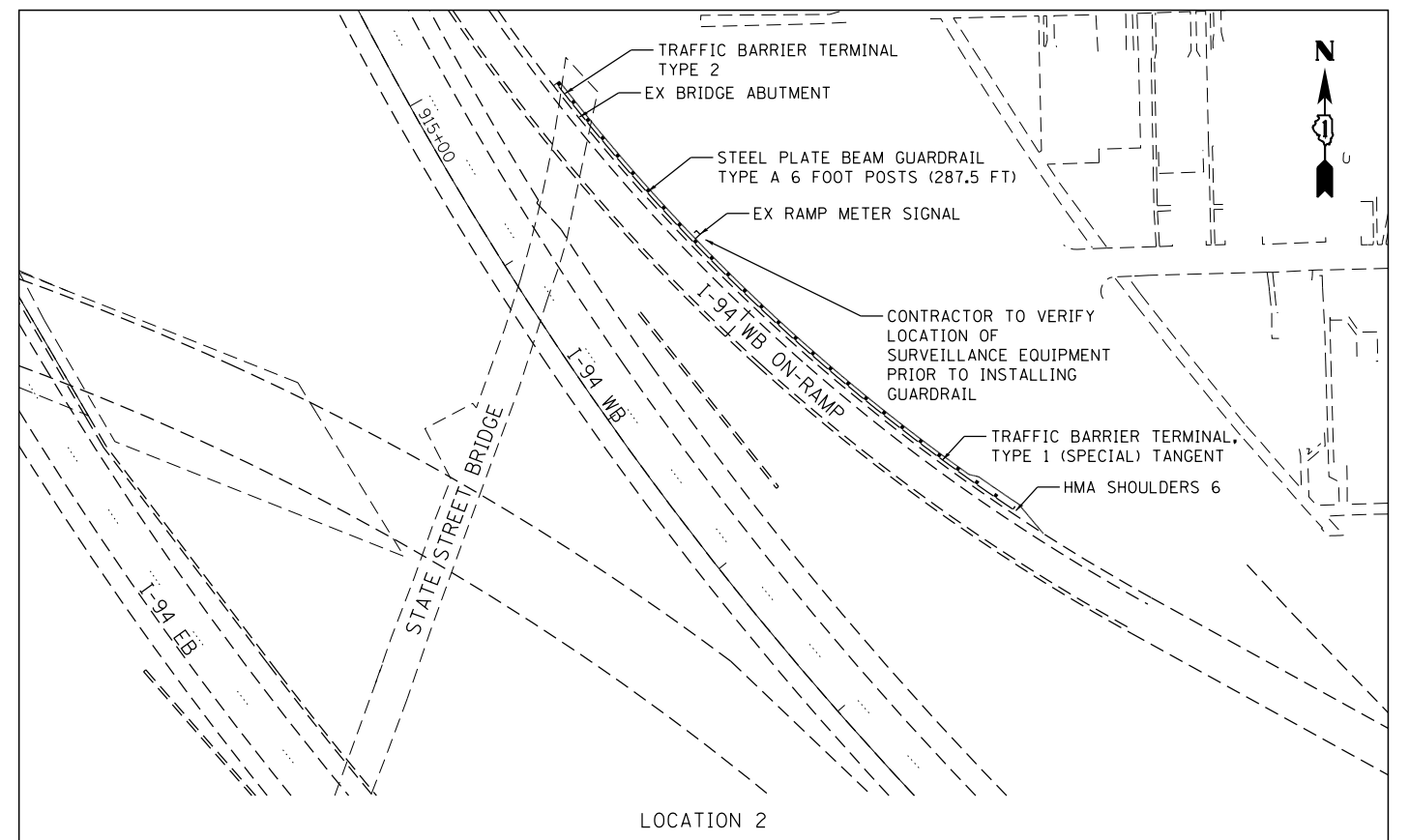
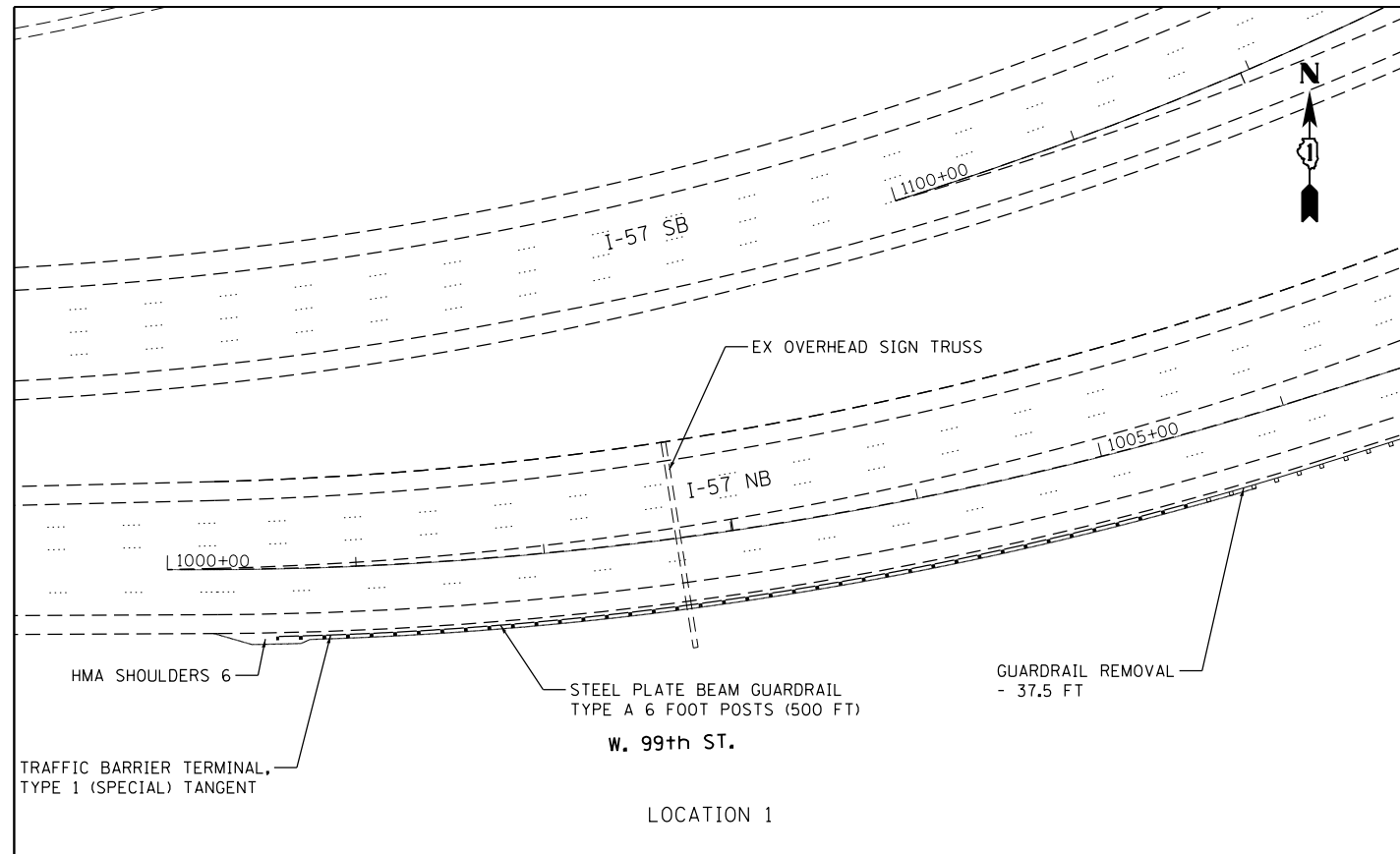
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| FILE NAME = 86150046-02-sht-LocationMap.dgn | DRAWN - DS | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - TH | REVISED - |
| PLOT DATE = 12/9/2015 | DATE - 12/10/15 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
LOCATION MAP

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|-----------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2015-052I | COOK | 31 | 12 |
| CONTRACT NO. | | | 62B06 | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartha
 DATE PLOTTED: 12/29/2015 3:38:49 PM
 FILE NAME: 86150046-02-sht-GuardRailRoadPlan-01.dgn
 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plot.tbl



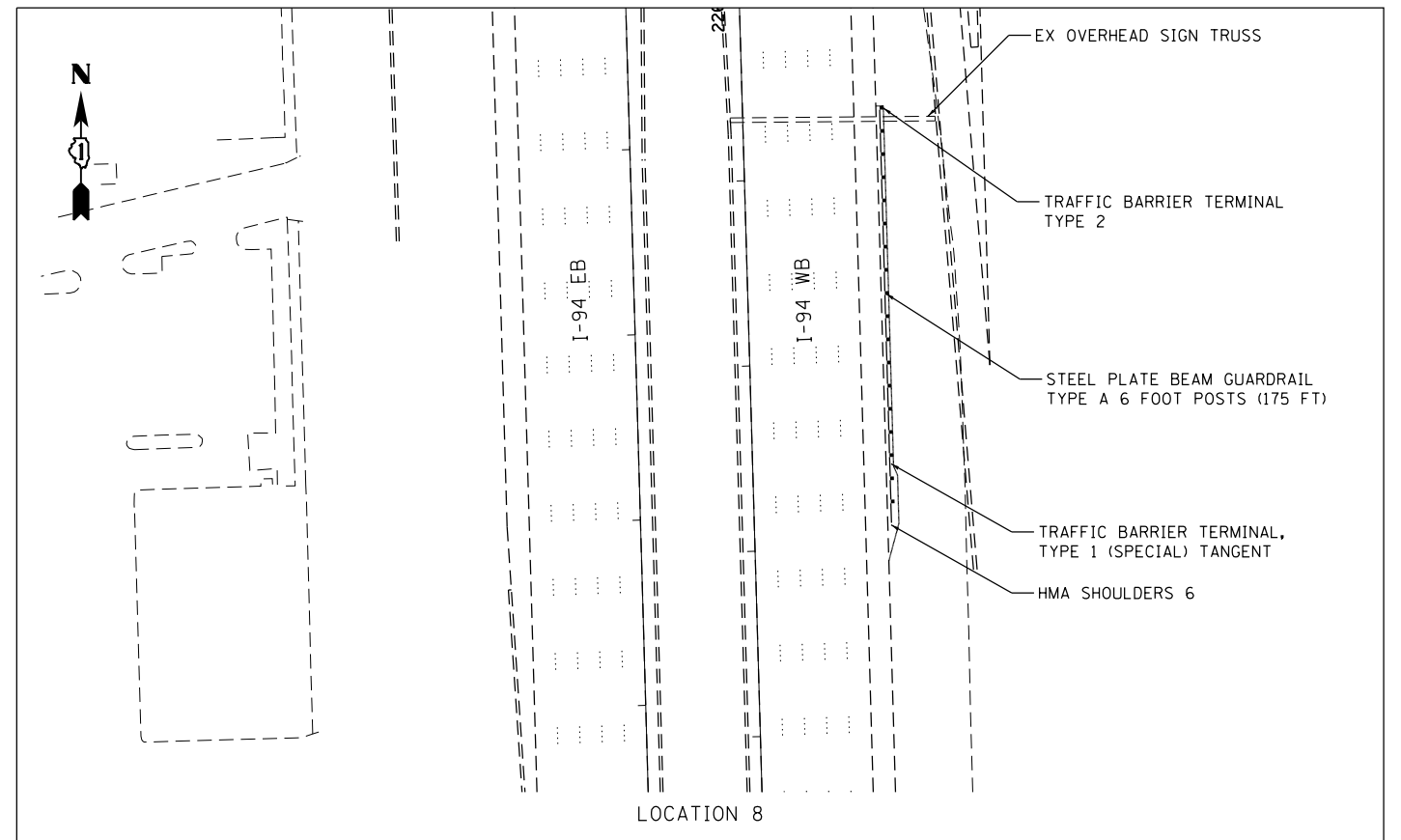
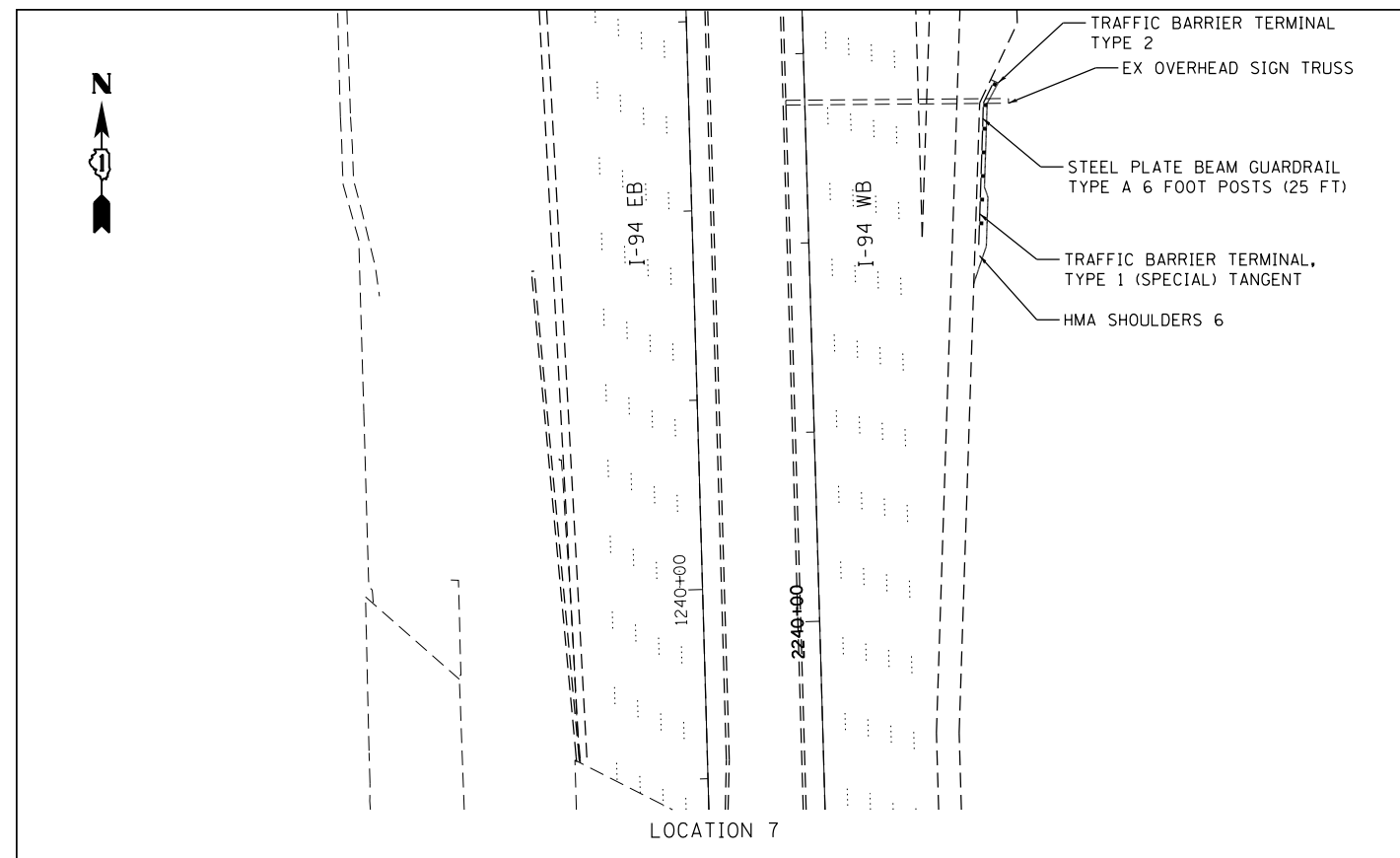
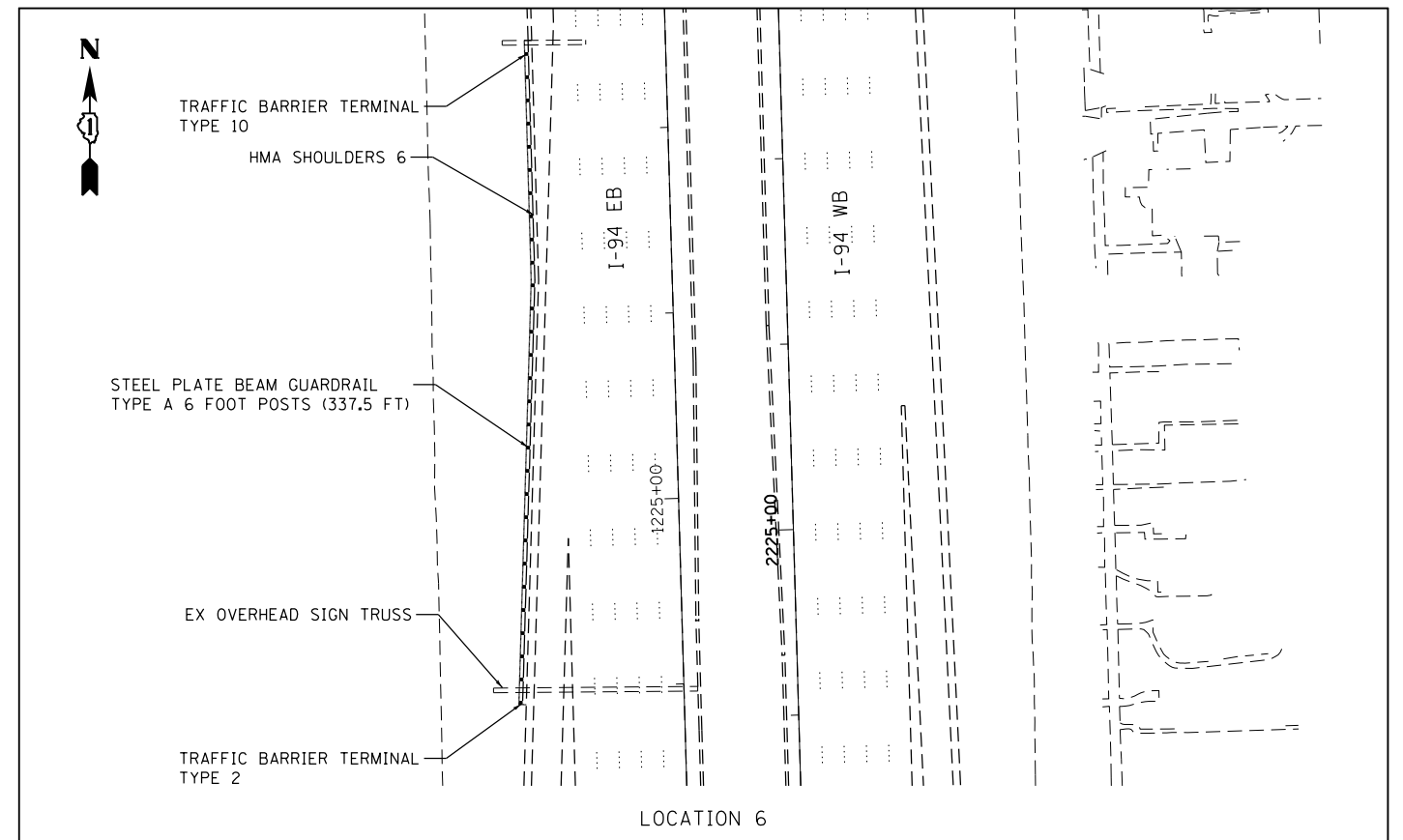
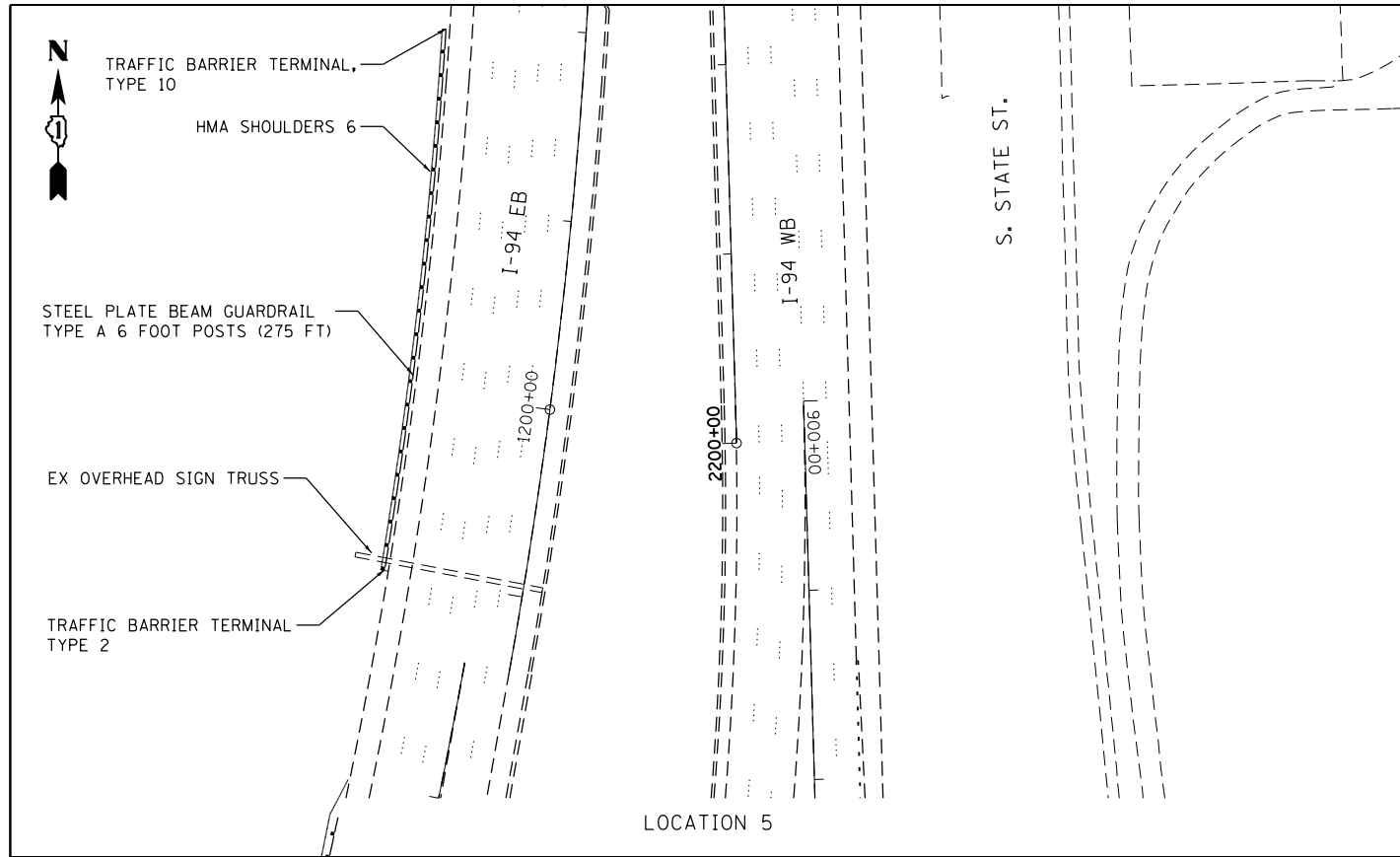
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| PLOT SCALE = 1"=50' | CHECKED - TH | REVISED - |
| PLOT DATE = 12/9/2015 | DATE - 12/10/15 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
 ROADWAY PLANS

SCALE: 1"=50' SHEET NO. 1 OF 8 SHEETS STA. TO STA.

| | | | | |
|---|-------------------|-------------|--------------------|--------------|
| F.A.I. RTE. 90/94 | SECTION 2015-052I | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 13 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62B06 | |



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartha
 DATE PLOTTED: 12/9/2015 3:38:53 PM
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 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plc-table.tbl



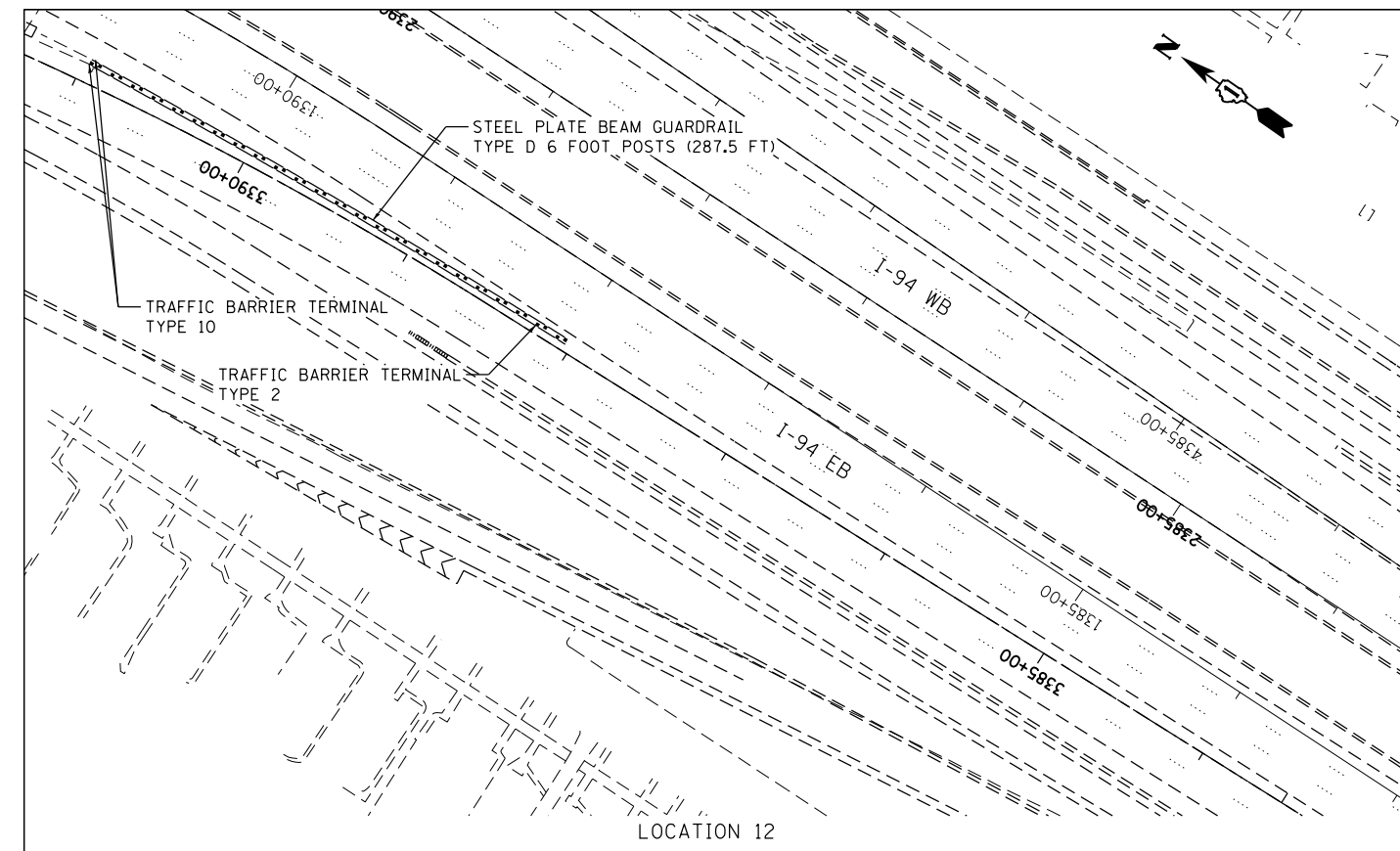
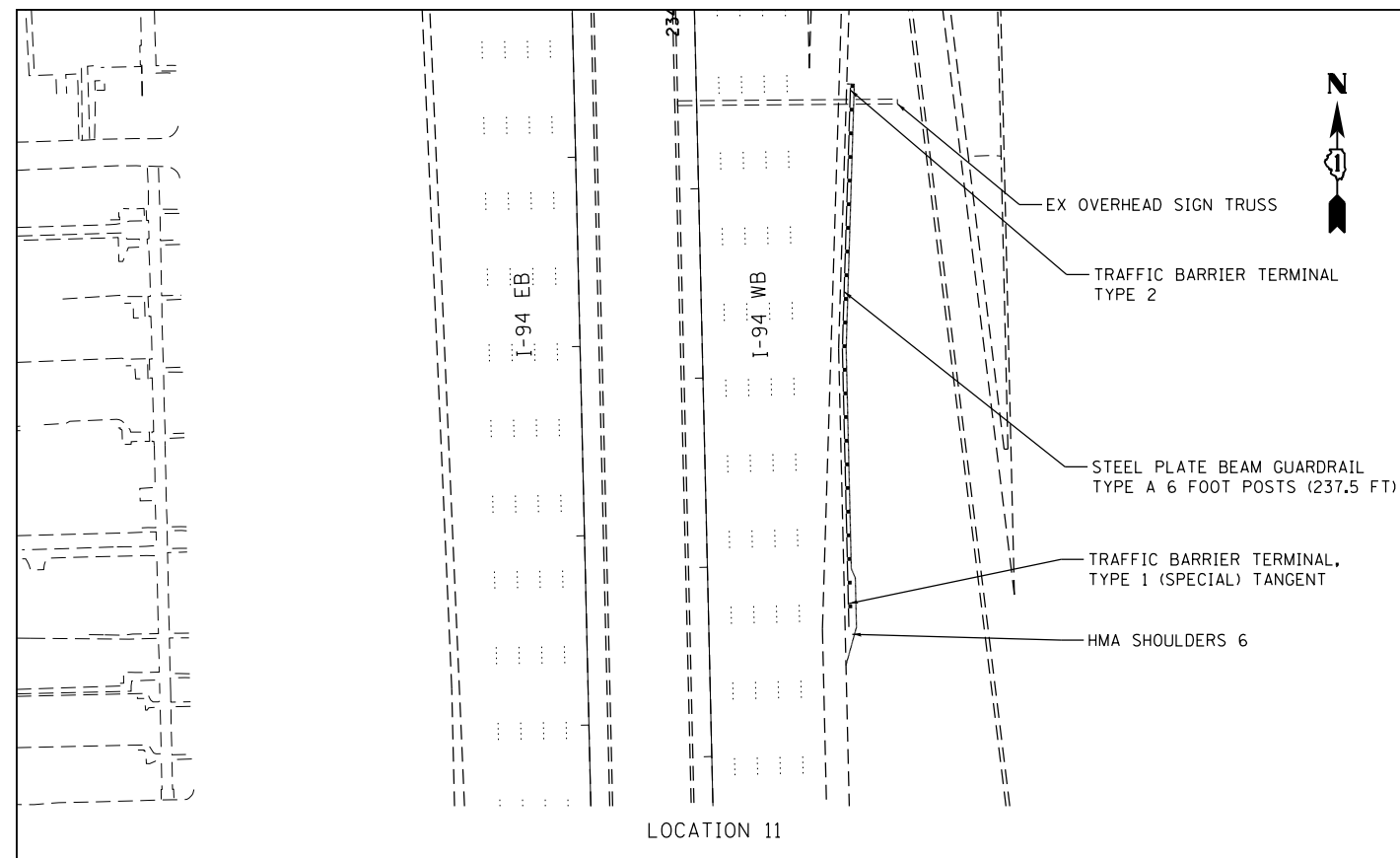
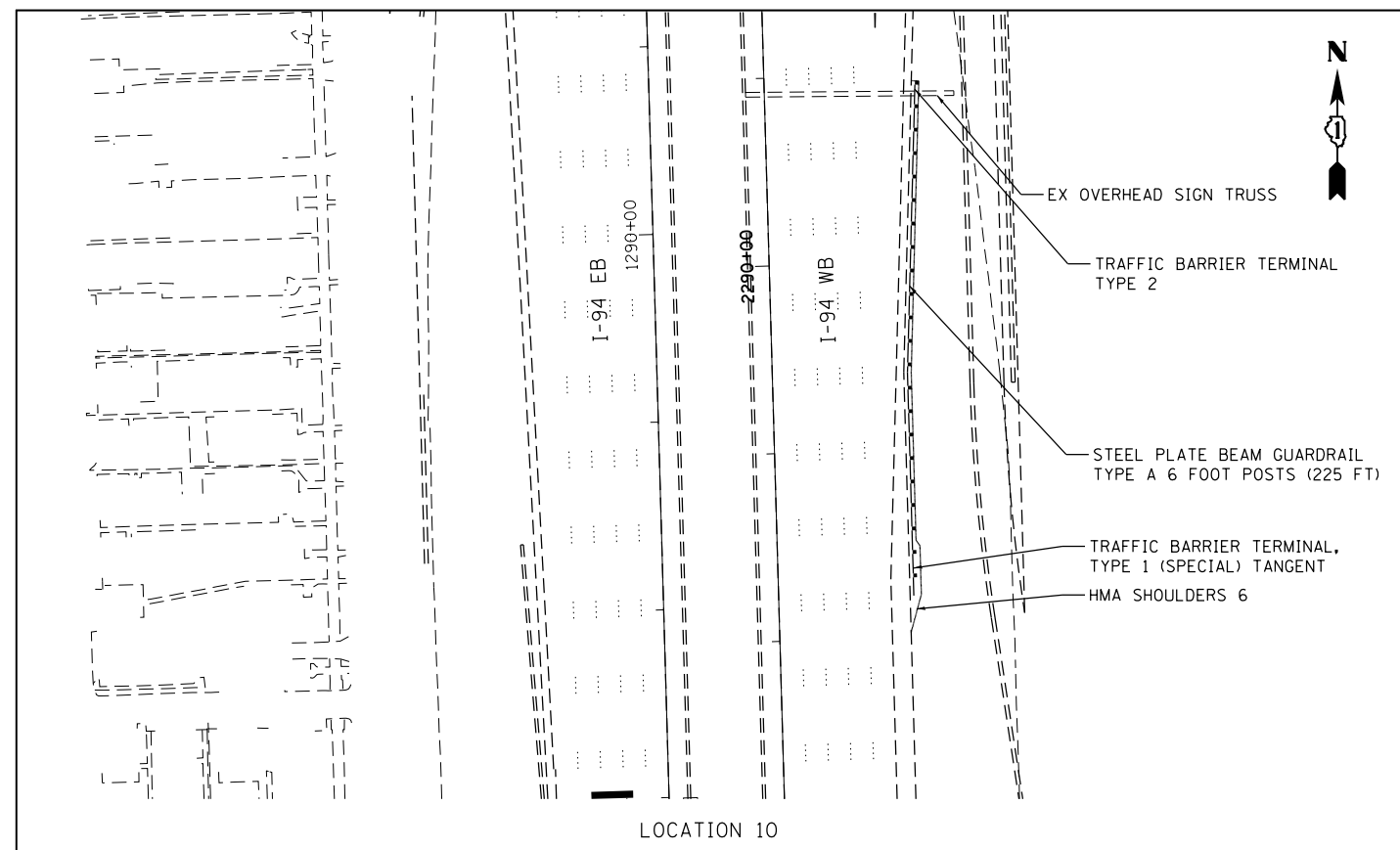
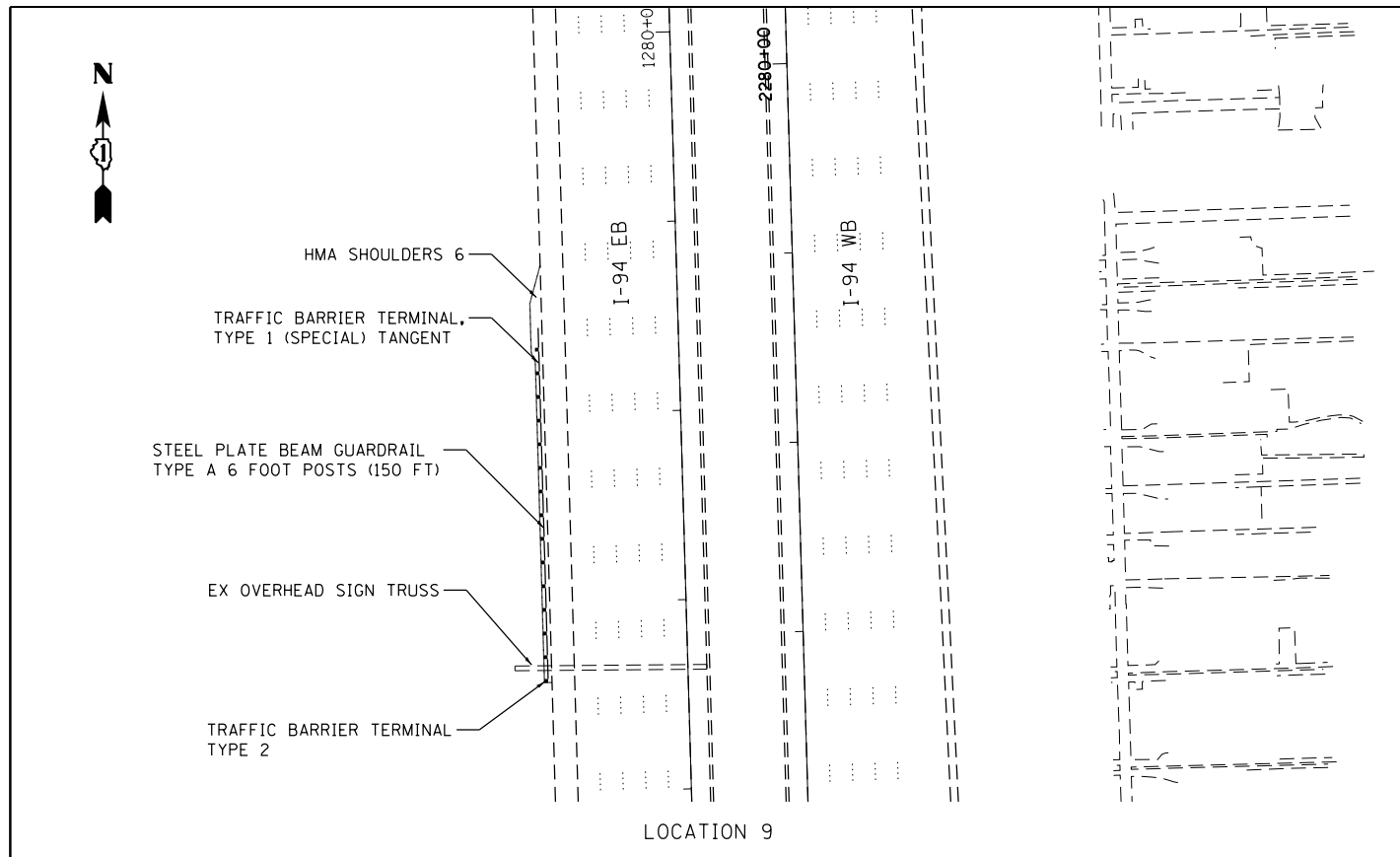
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| PLOT SCALE = 1"=50' | CHECKED - TH | REVISED - |
| PLOT DATE = 12/9/2015 | DATE - 12/10/15 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
 ROADWAY PLANS

SCALE: 1"=50' SHEET NO. 2 OF 8 SHEETS STA. TO STA.

| | | | | |
|---|-------------------|-------------|--------------------|--------------|
| F.A.I. RTE. 90/94 | SECTION 2015-052I | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 14 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62B06 | |



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartha
 DATE PLOTTED: 12/29/2015 3:38:57 PM
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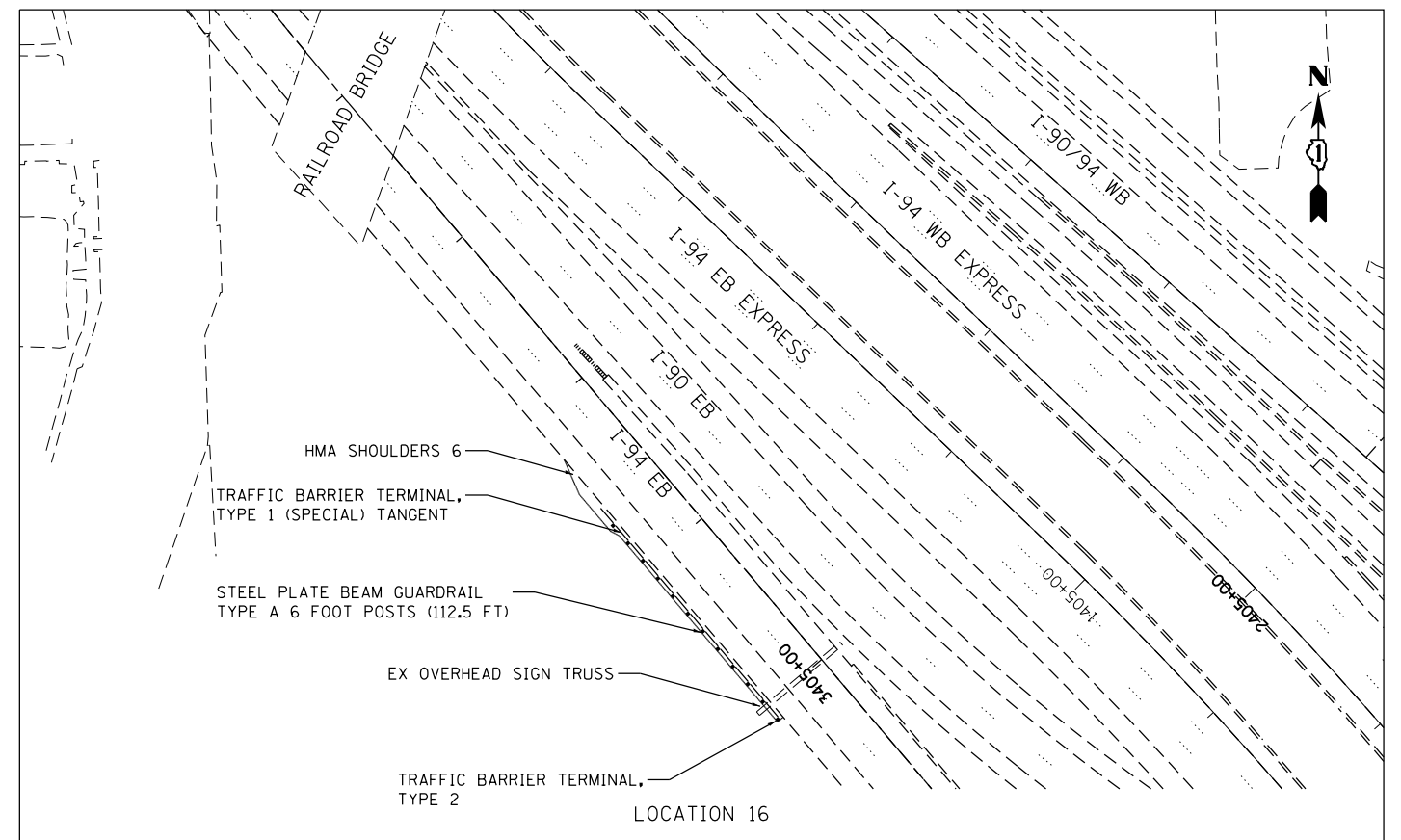
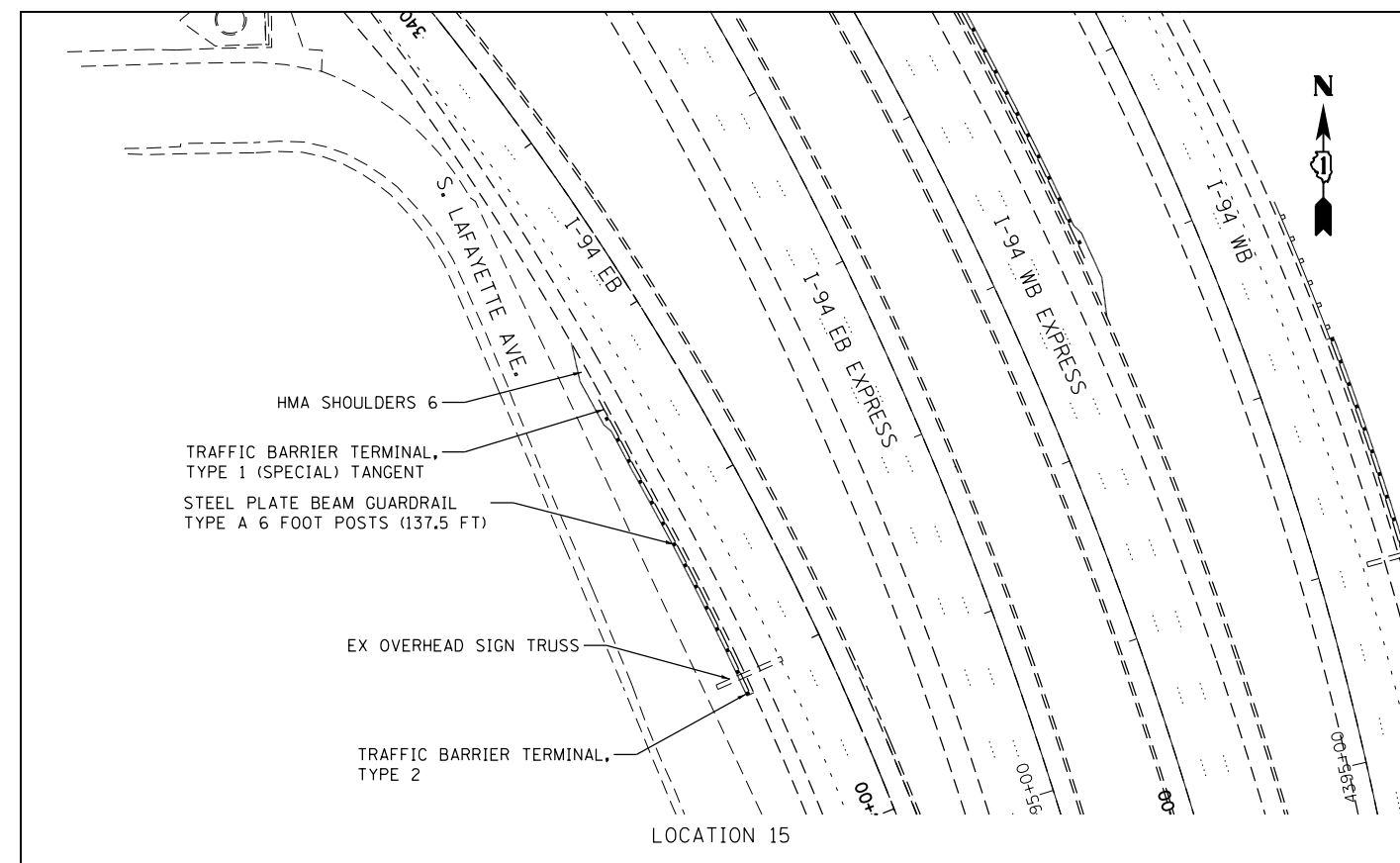
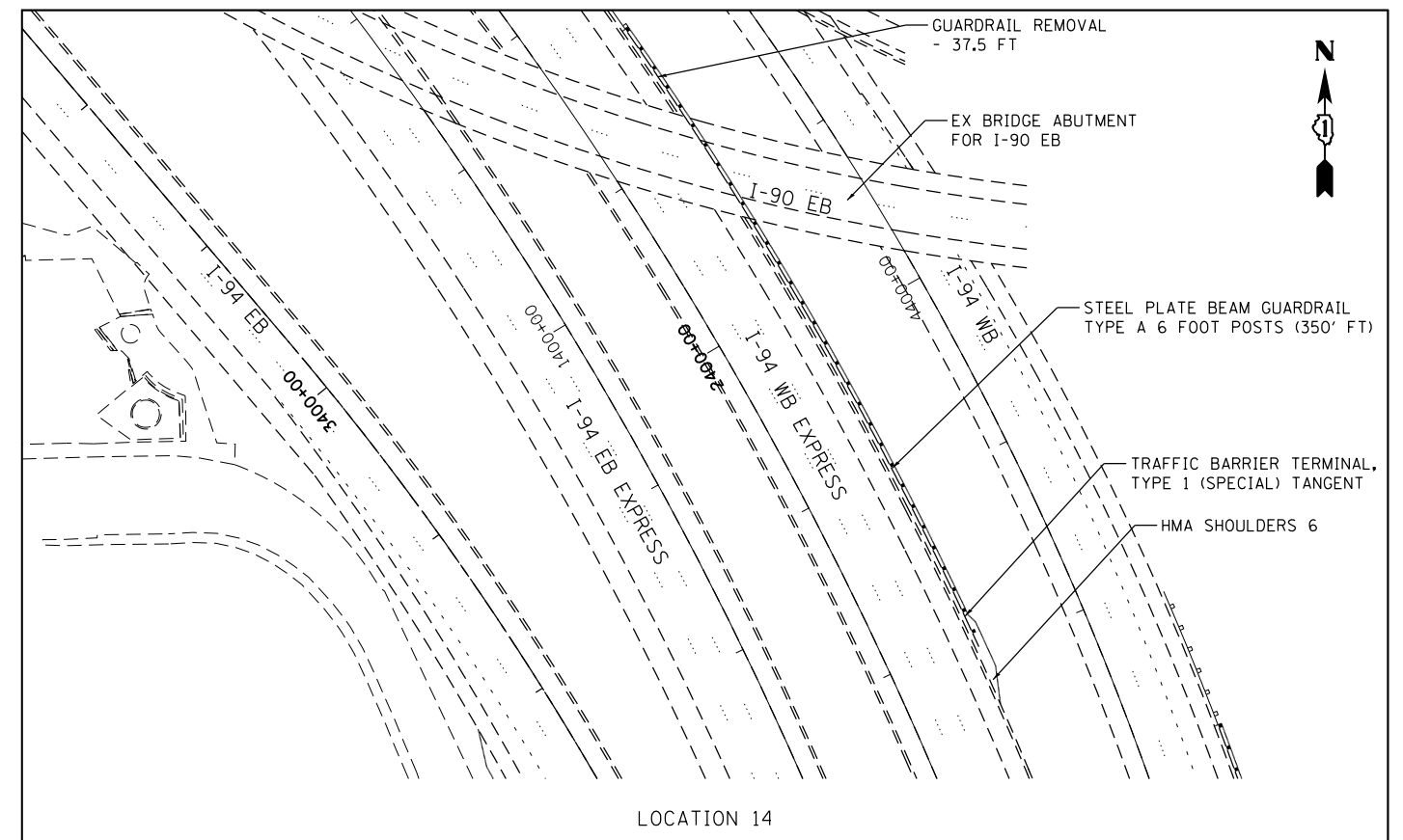
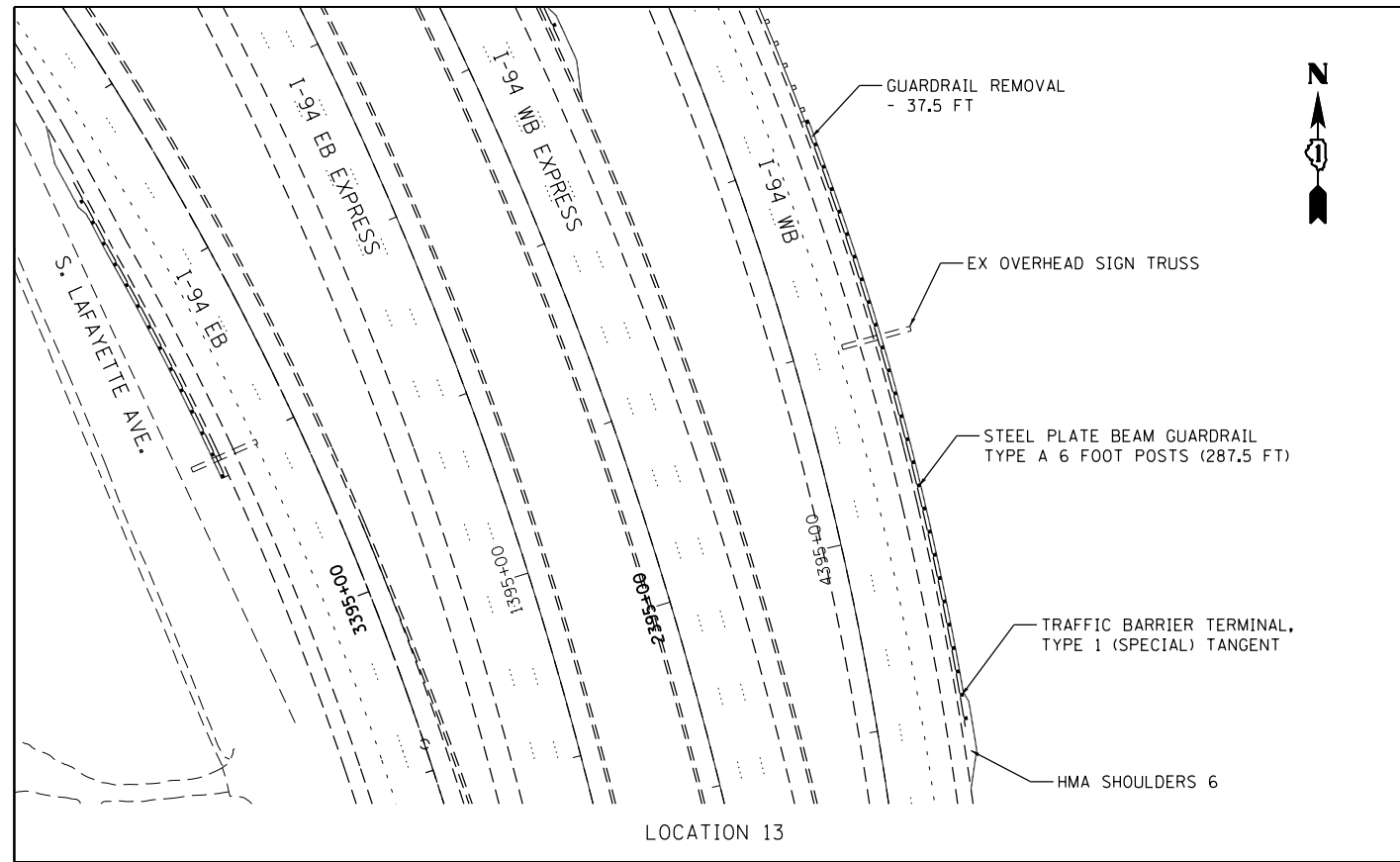
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| PLOT SCALE = 1"=50' | CHECKED - TH | REVISED - |
| PLOT DATE = 12/9/2015 | DATE - 12/10/15 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
ROADWAY PLANS

SCALE: 1"=50' SHEET NO. 3 OF 8 SHEETS STA. TO STA.

| | | | | |
|---|-------------------|-------------|--------------------|--------------|
| F.A.I. RTE. 90/94 | SECTION 2015-052I | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 15 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62B06 | |



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartha
 DATE PLOTTED: 12/9/2015 3:38:00 PM
 FILE NAME: 86150046-02-sht-GuardRailRoadPlan-04.dgn
 PLOT DRIVER: IL_Plot.dwg
 PEN TABLE: plc-table.tbl



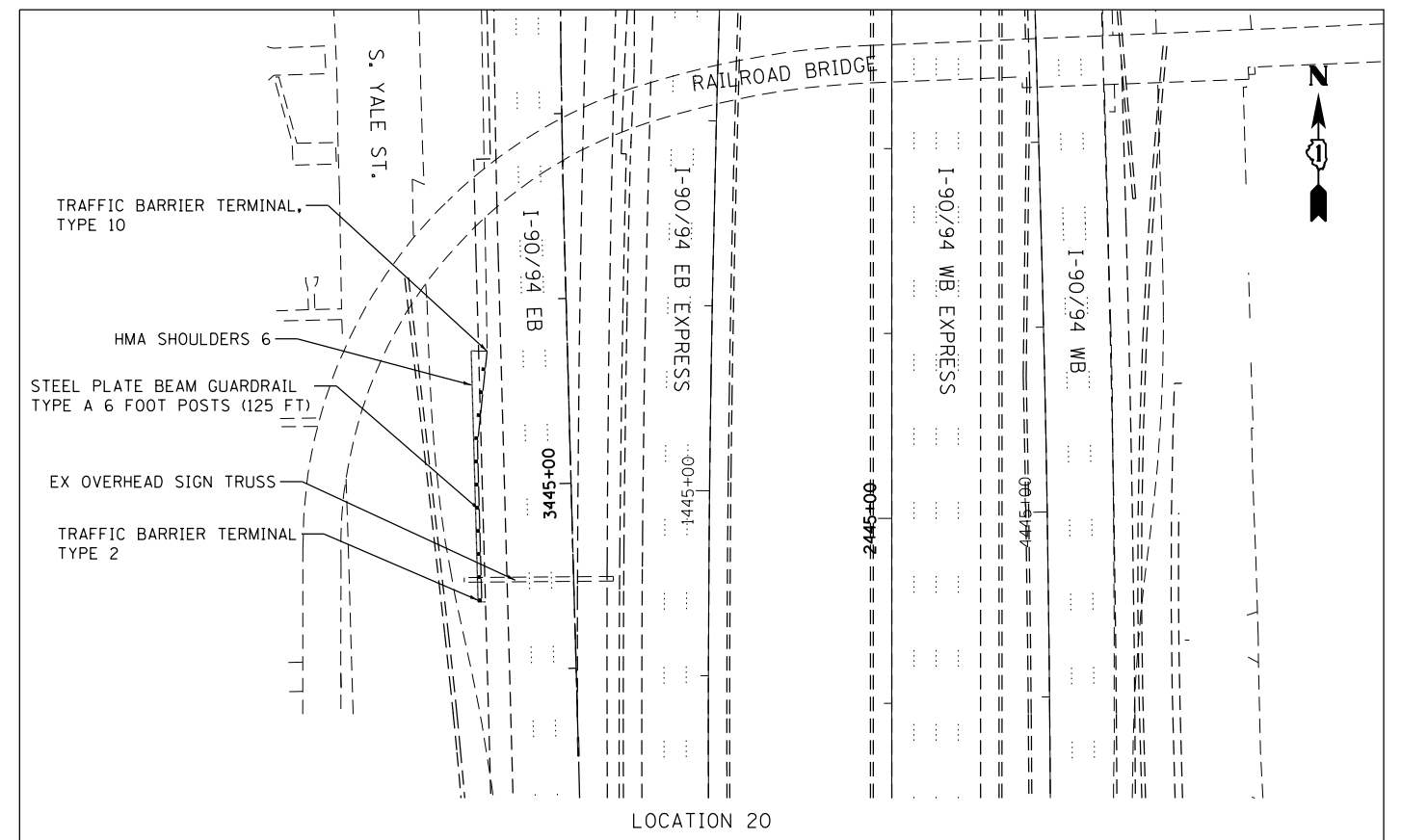
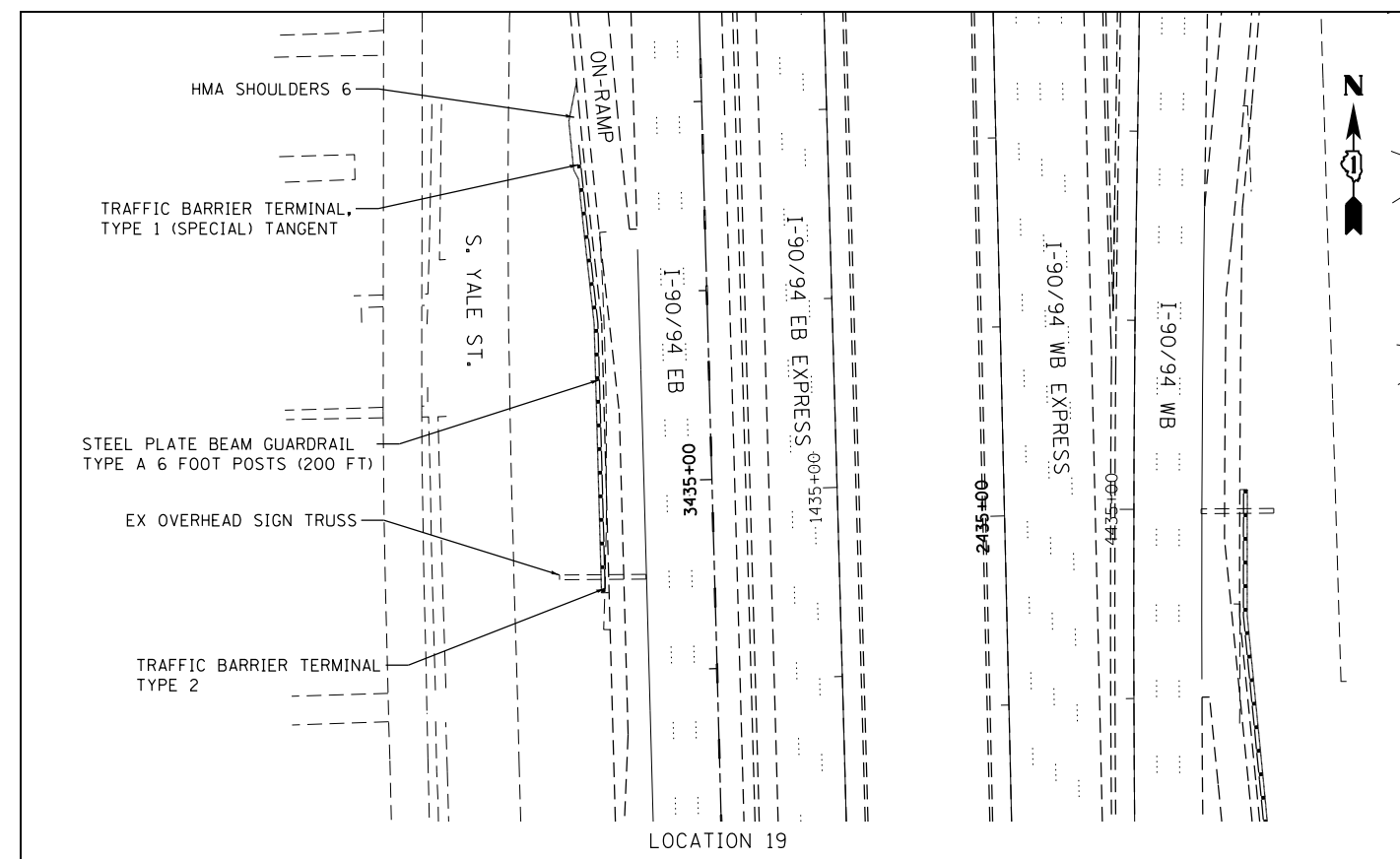
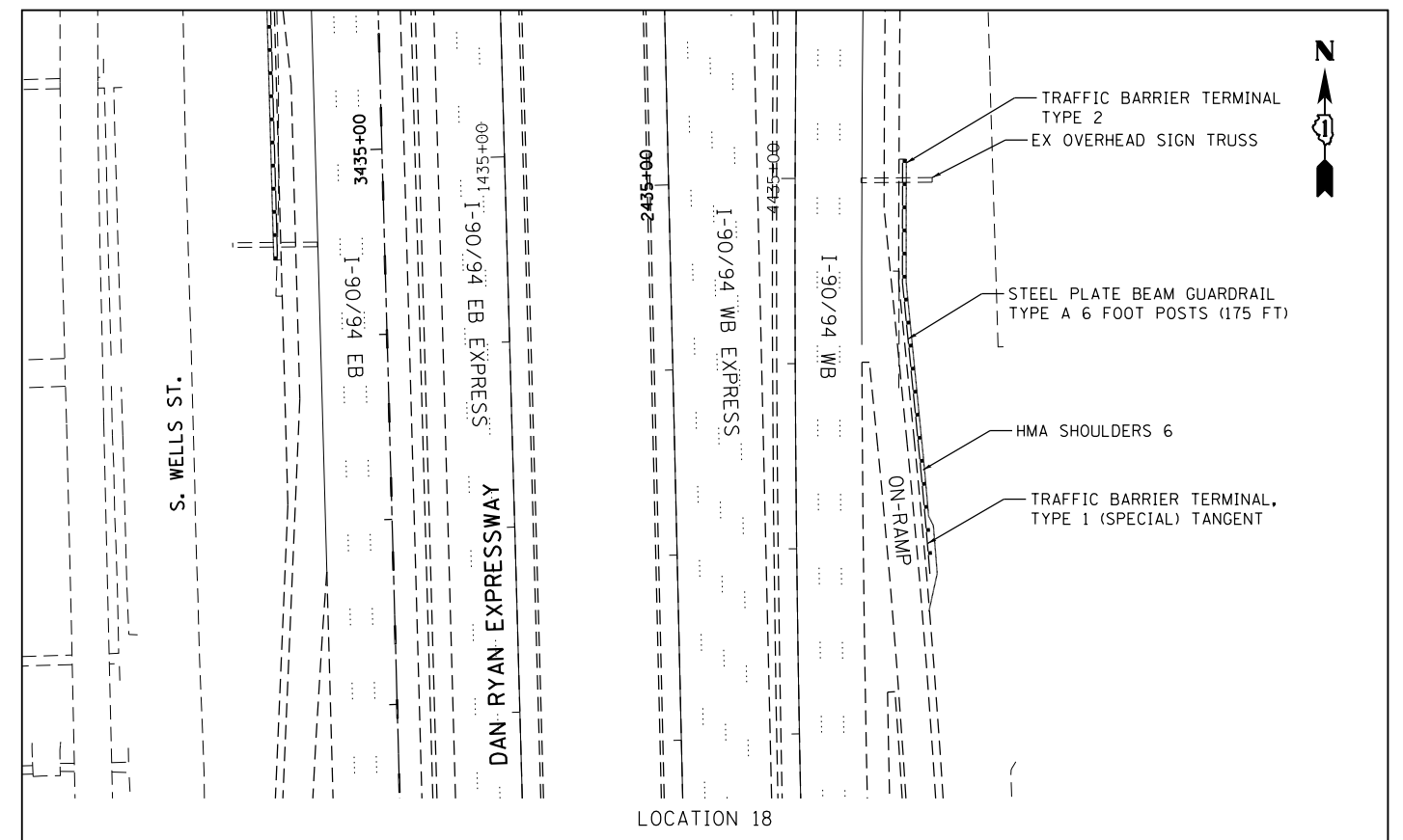
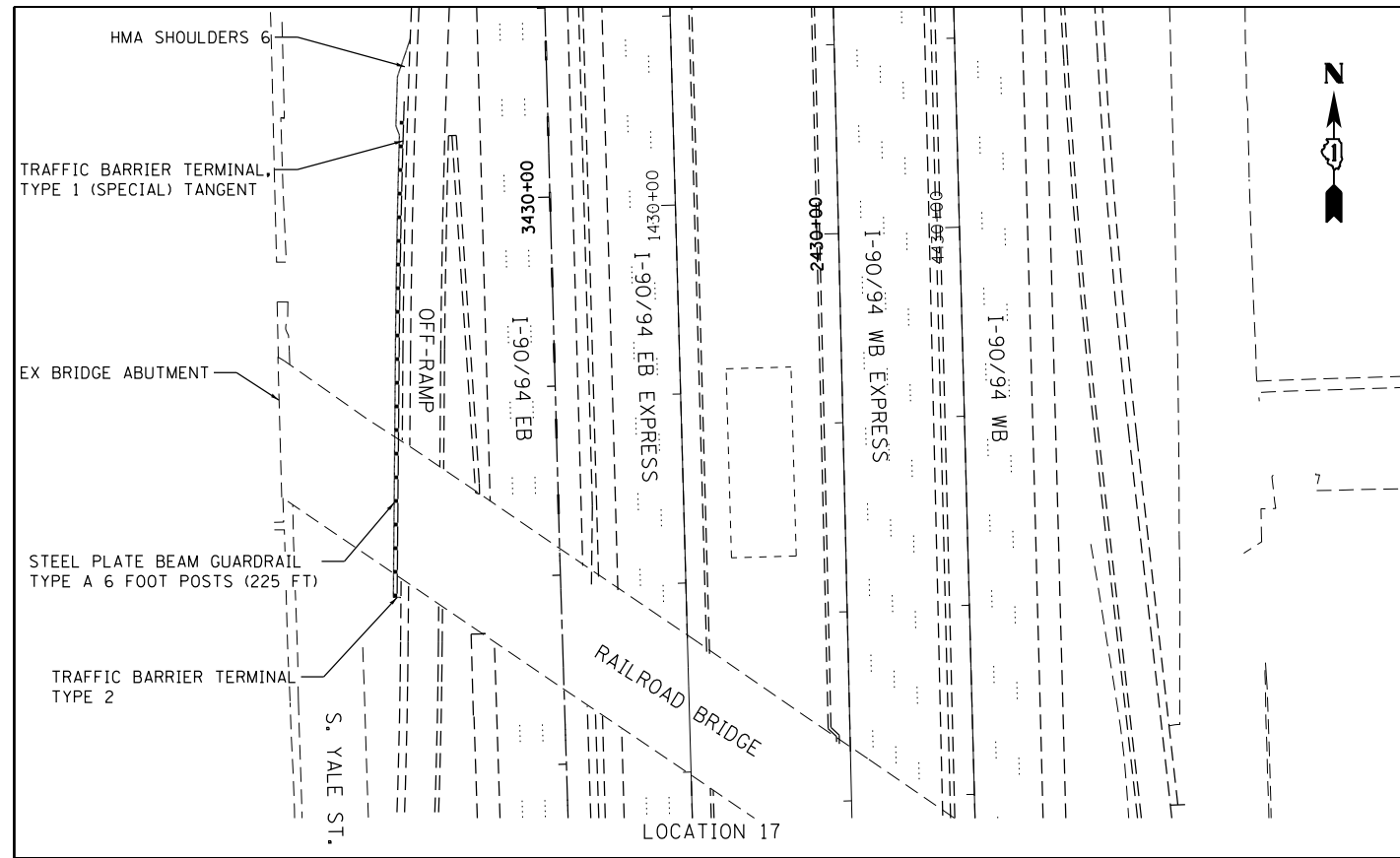
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| PLOT DATE = 12/9/2015 | DATE - 12/10/15 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
 ROADWAY PLANS

SCALE: 1"=50' SHEET NO. 4 OF 8 SHEETS STA. TO STA.

| | | | | |
|---|--------------------|--------------|--------------------|---------------|
| F.A.I. RTE.: 90/94 | SECTION: 2015-052I | COUNTY: COOK | TOTAL SHEETS: 31 | SHEET NO.: 16 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62B06 | |



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartha
 DATE PLOTTED: 12/9/2015 3:58:04 PM
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 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plc-table.tbl



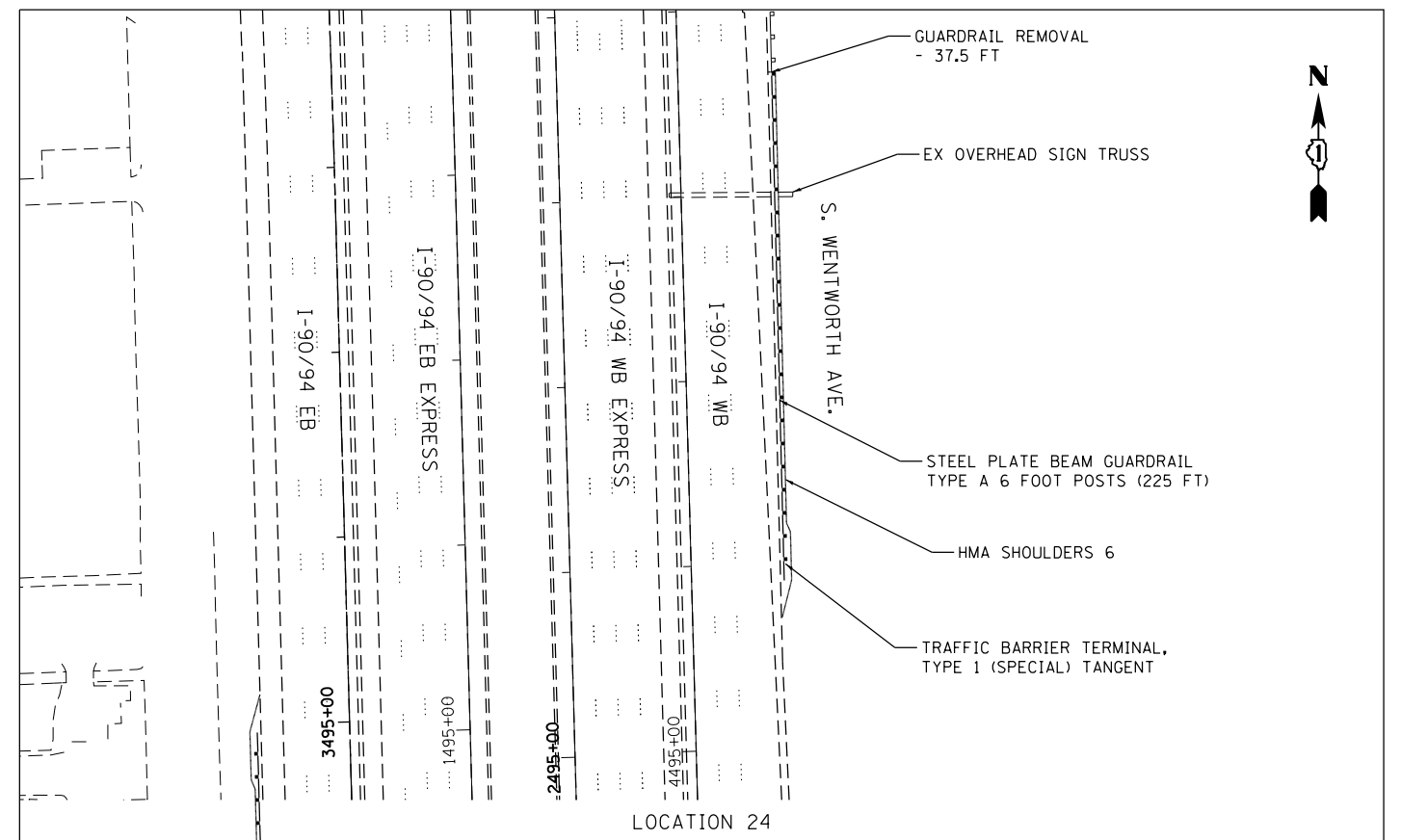
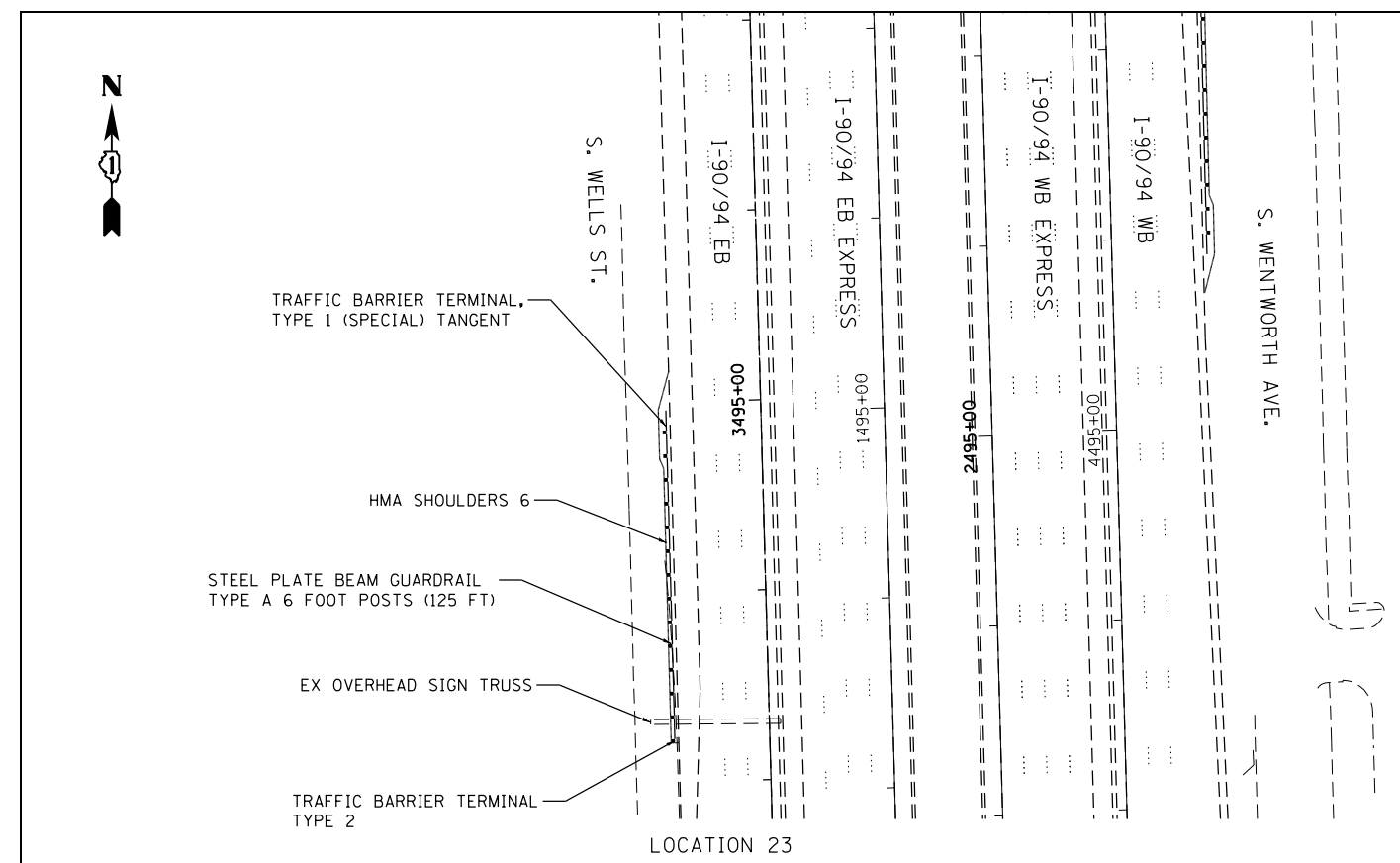
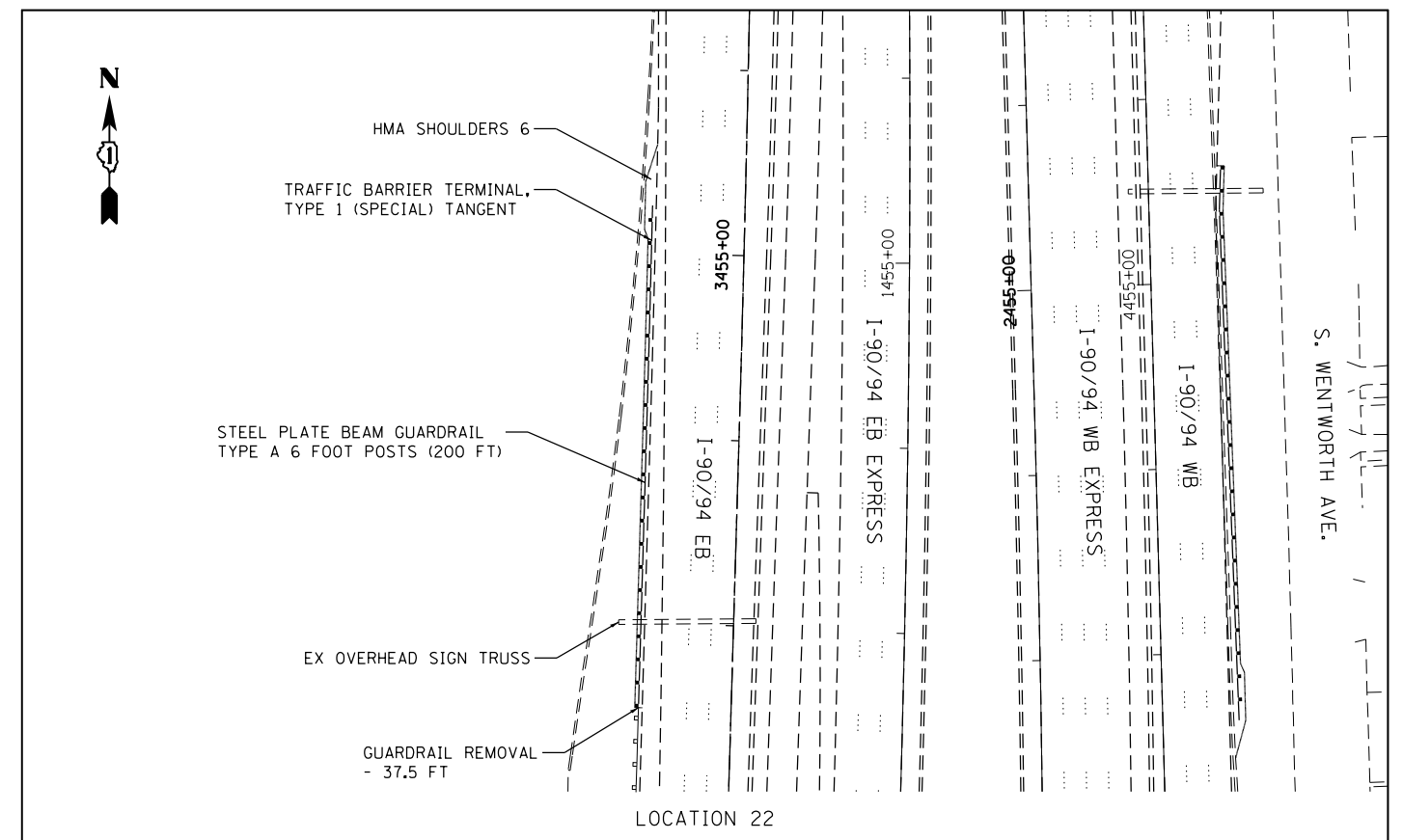
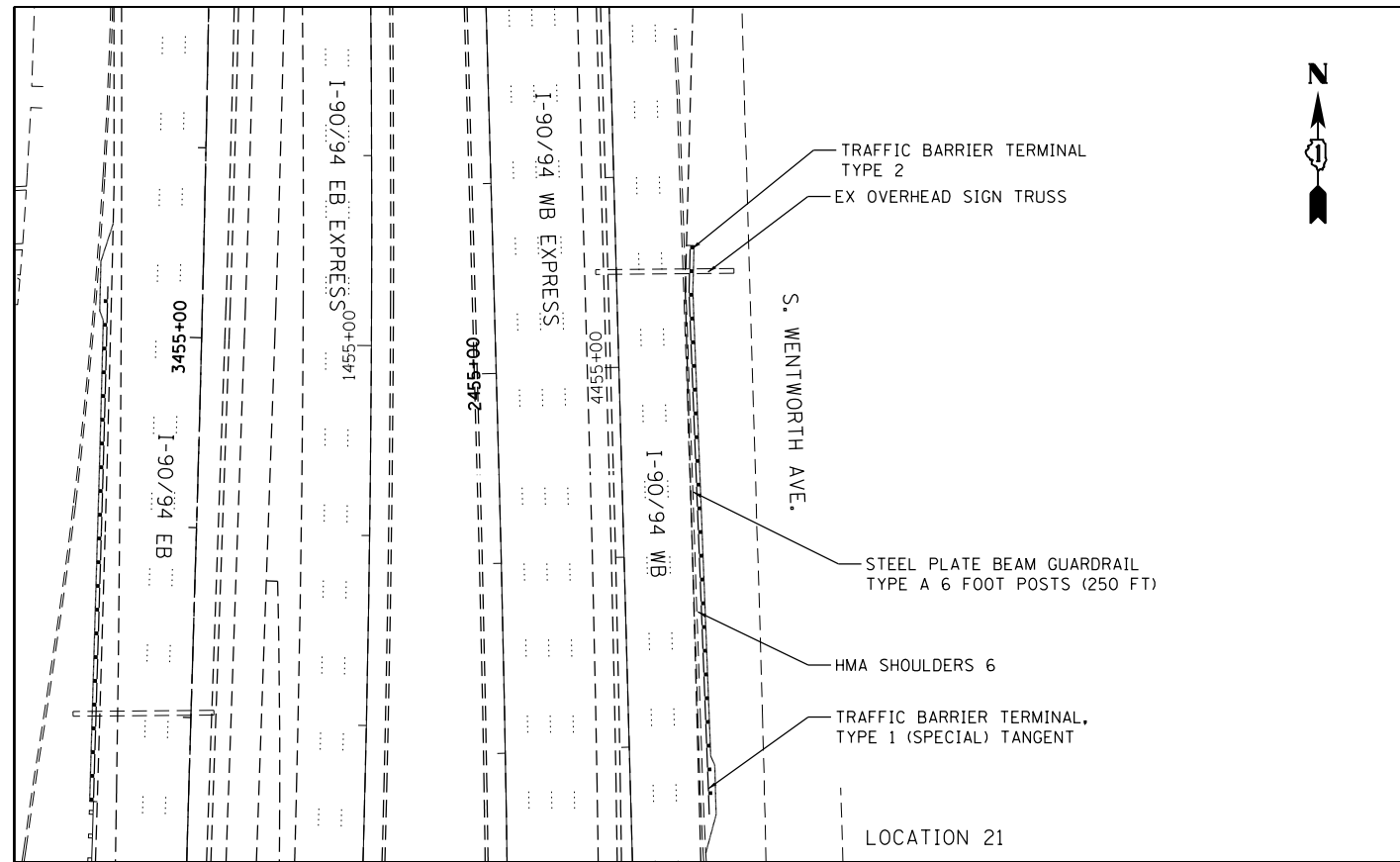
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| FILE NAME = 86150046-02-sht-GuardRailRoadPlan-05.dgn | DRAWN - DS | REVISED - |
| PLOT SCALE = 1"=50' | CHECKED - TH | REVISED - |
| PLOT DATE = 12/9/2015 | DATE - 12/10/15 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
 ROADWAY PLANS

SCALE: 1"=50' SHEET NO. 5 OF 8 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| 90/94 | 2015-052I | COOK | 31 | 17 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62B06 | |



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 12/9/2015 3:39:07 PM
 FILE NAME: 86150046-02-sht-GuardRailRoadPlan-06.dgn
 PLOT DRIVER: IL_Pdf_Plotter.fq
 PEN TABLE: plc-table.tbl



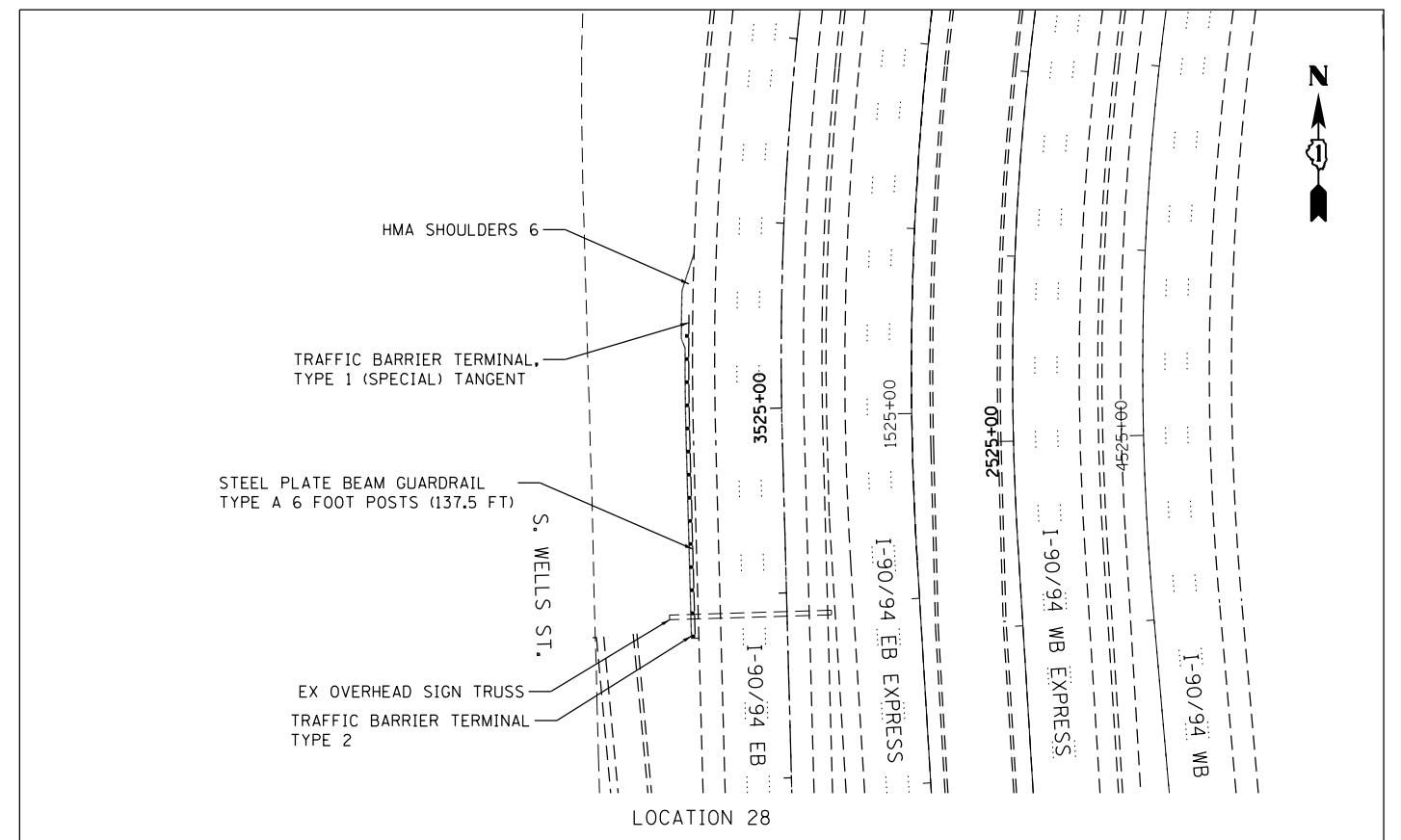
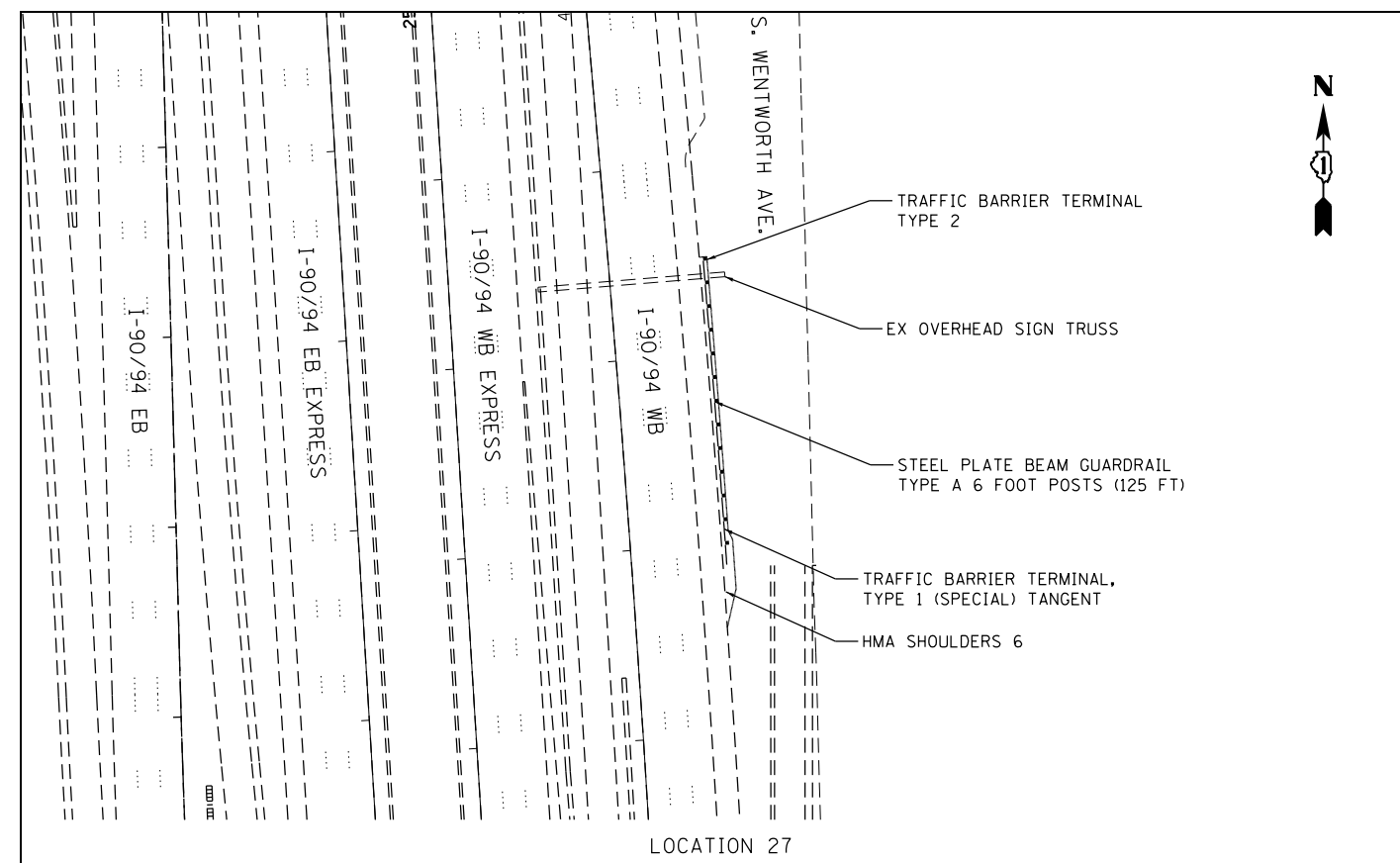
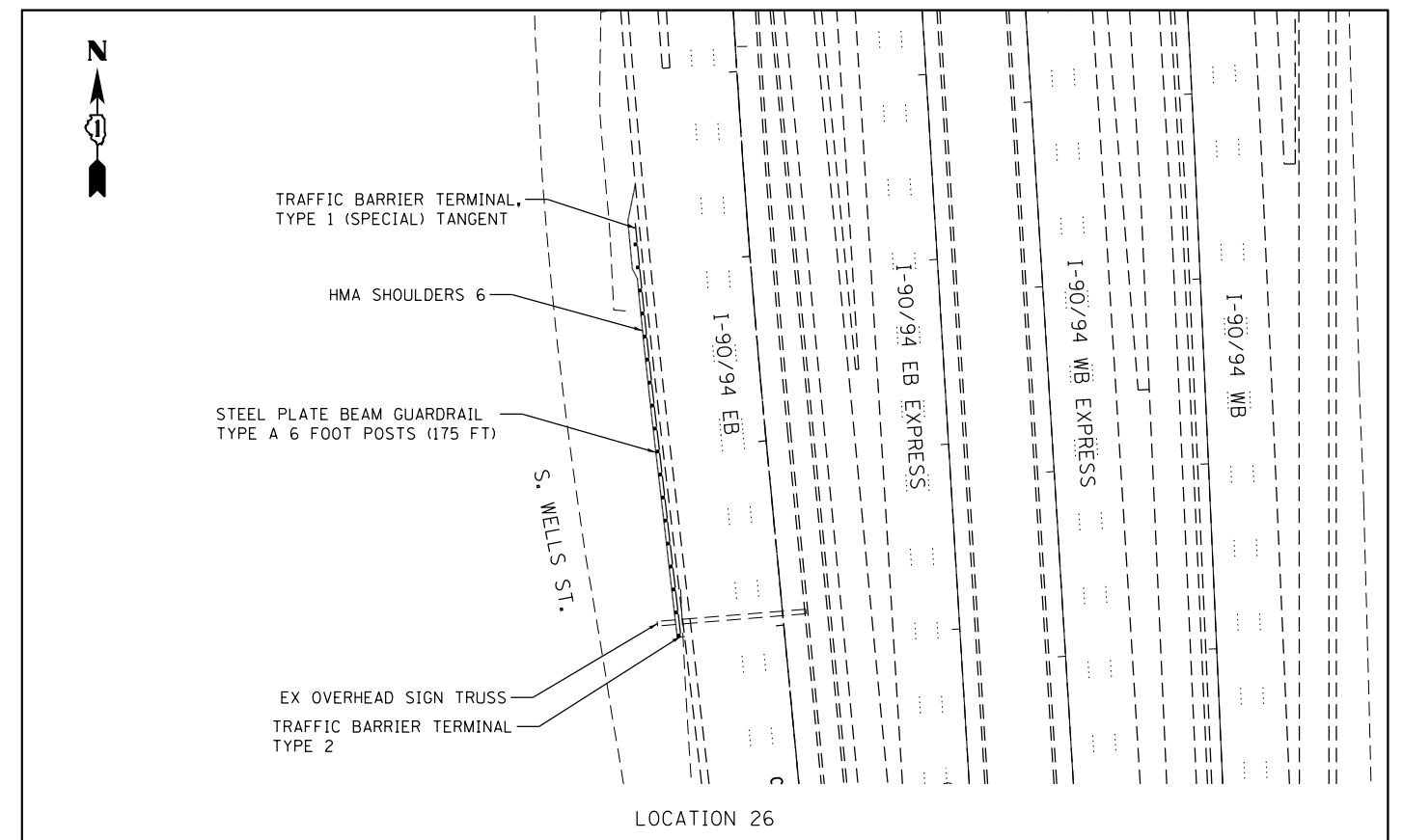
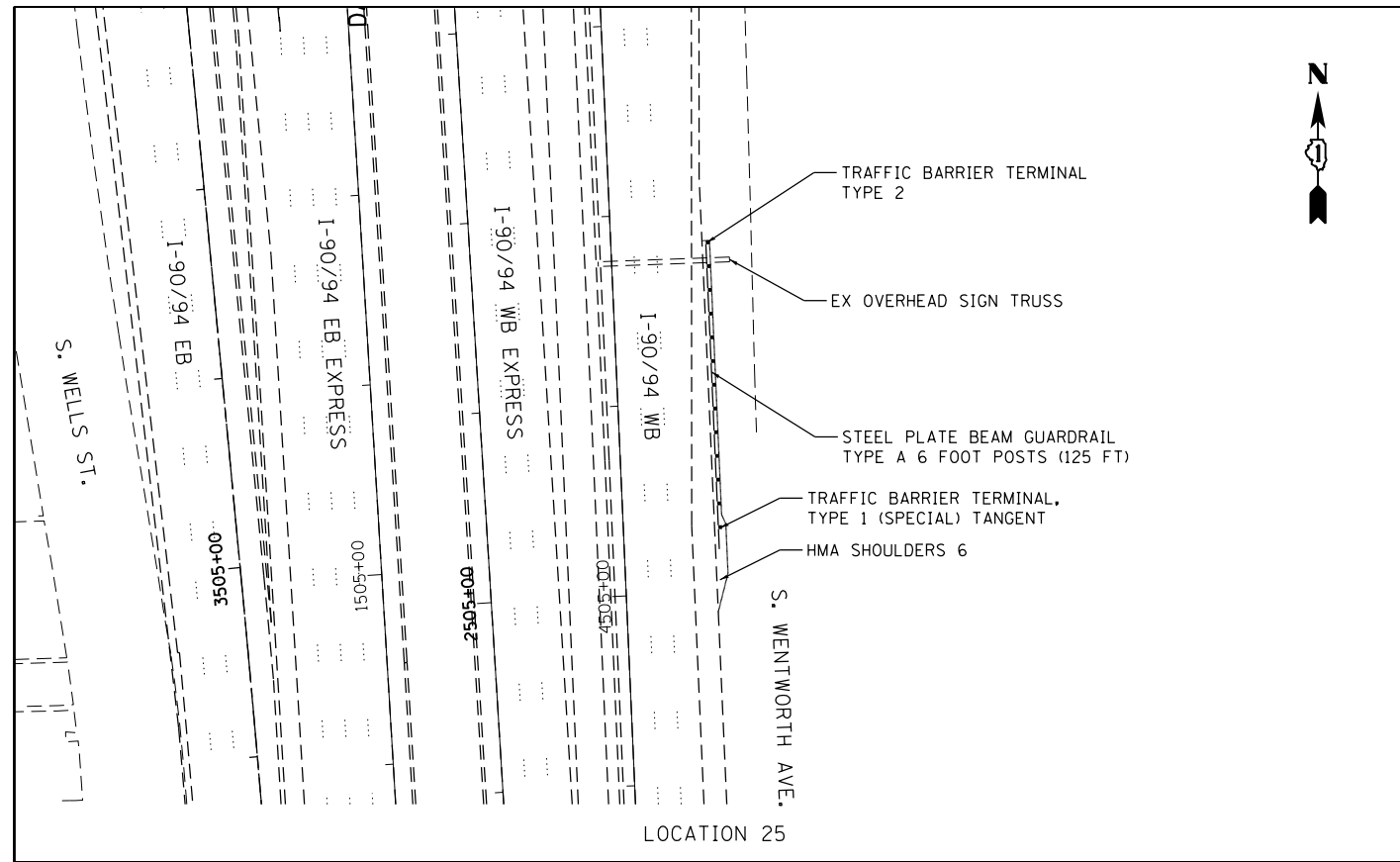
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| FILE NAME = 86150046-02-sht-GuardRailRoadPlan-06.dgn | DRAWN - DS | REVISED - |
| PLOT SCALE = 1"=50' | CHECKED - TH | REVISED - |
| PLOT DATE = 12/9/2015 | DATE - 12/10/15 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
ROADWAY PLANS

SCALE: 1"=50' SHEET NO. 6 OF 8 SHEETS STA. TO STA.

| | | | | |
|---|--------------------|--------------|--------------------|---------------|
| F.A.I. RTE.: 90/94 | SECTION: 2015-052I | COUNTY: COOK | TOTAL SHEETS: 31 | SHEET NO.: 18 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62B06 | |



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartha
 DATE PLOTTED: 12/29/2015 3:38:11 PM
 FILE NAME: 86150046-02-sht-GuardRailRoadPlan-07.dgn
 PLOT DRIVER: JL.paf.bw@hrf.com
 PEN TABLE: plc-table.tbl



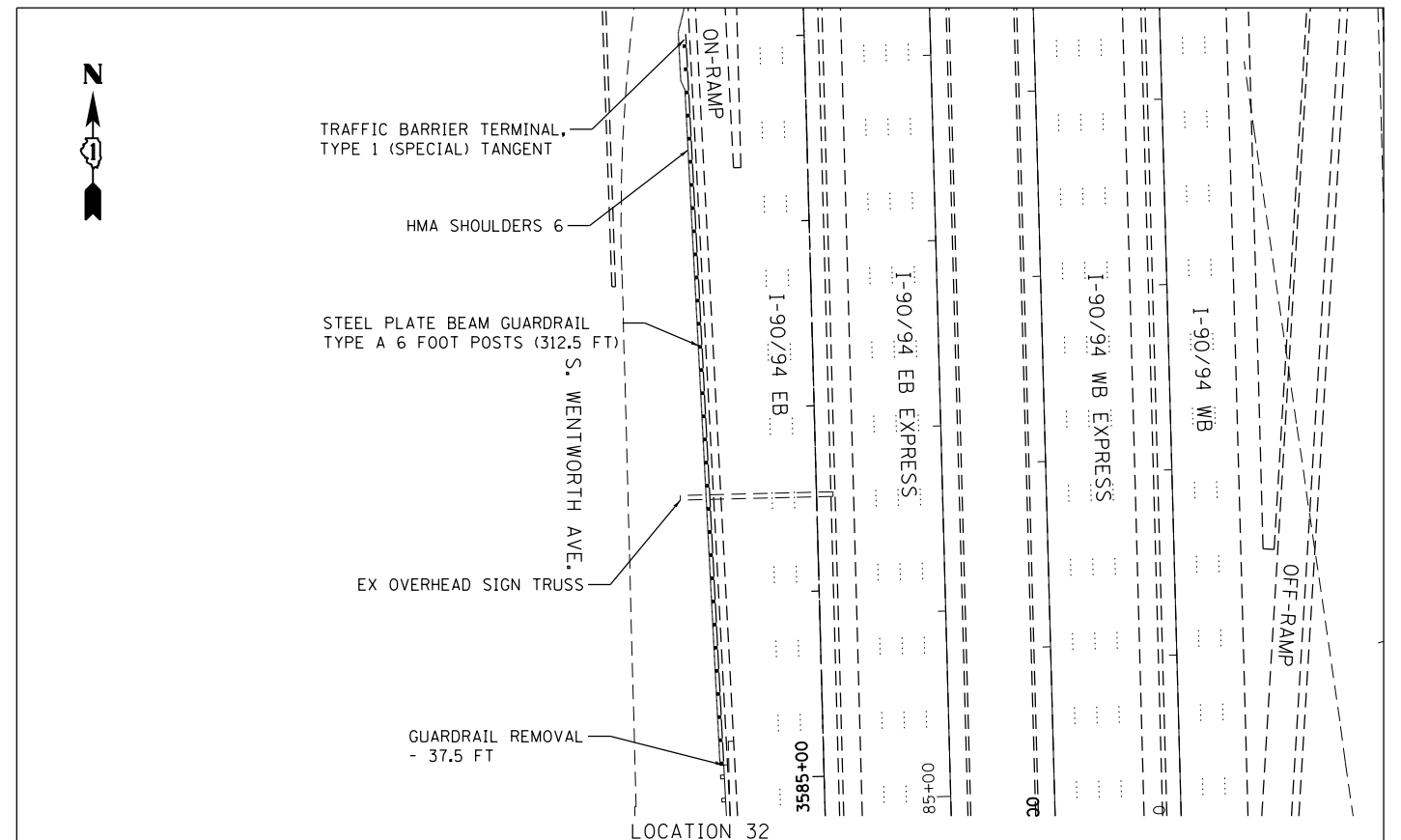
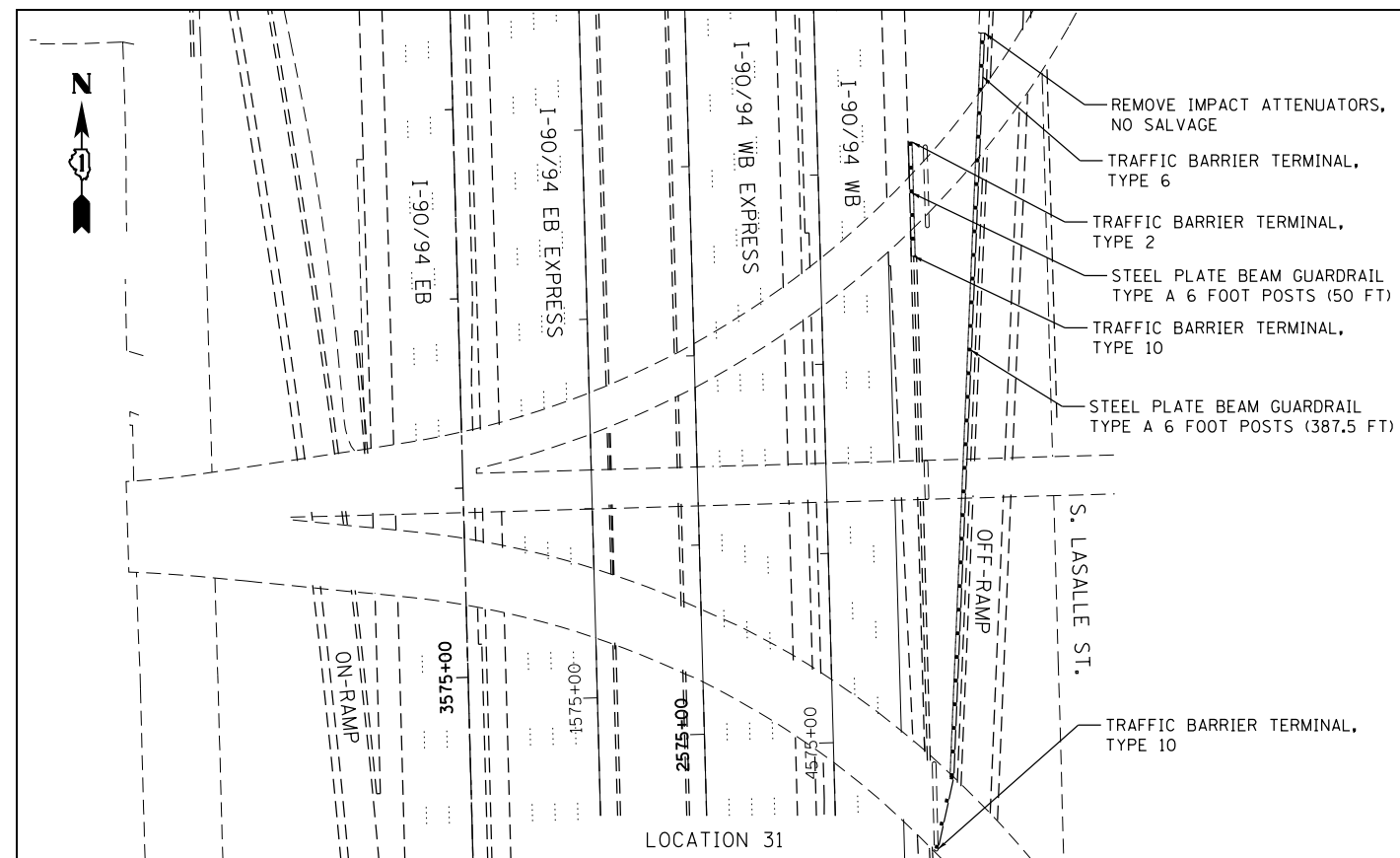
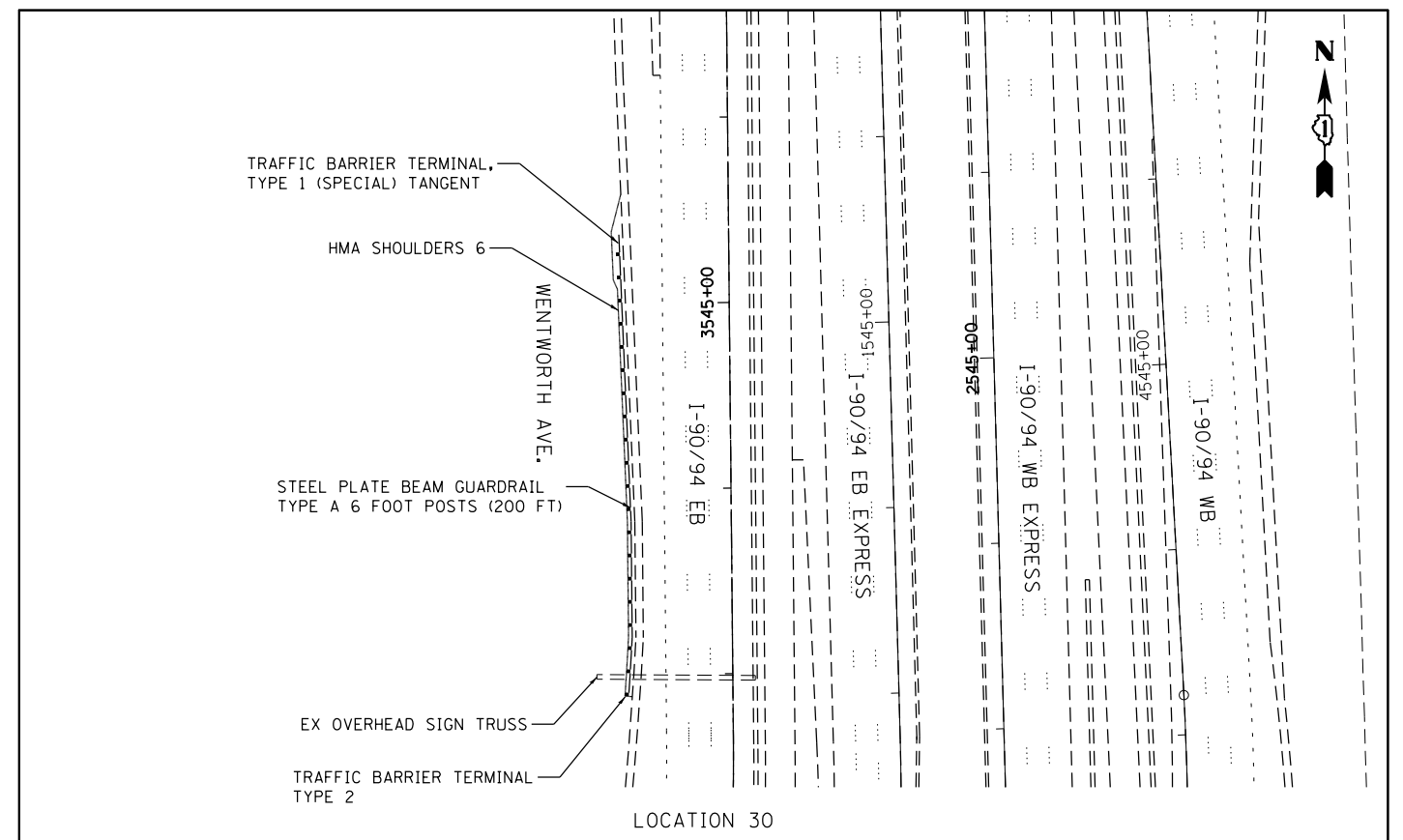
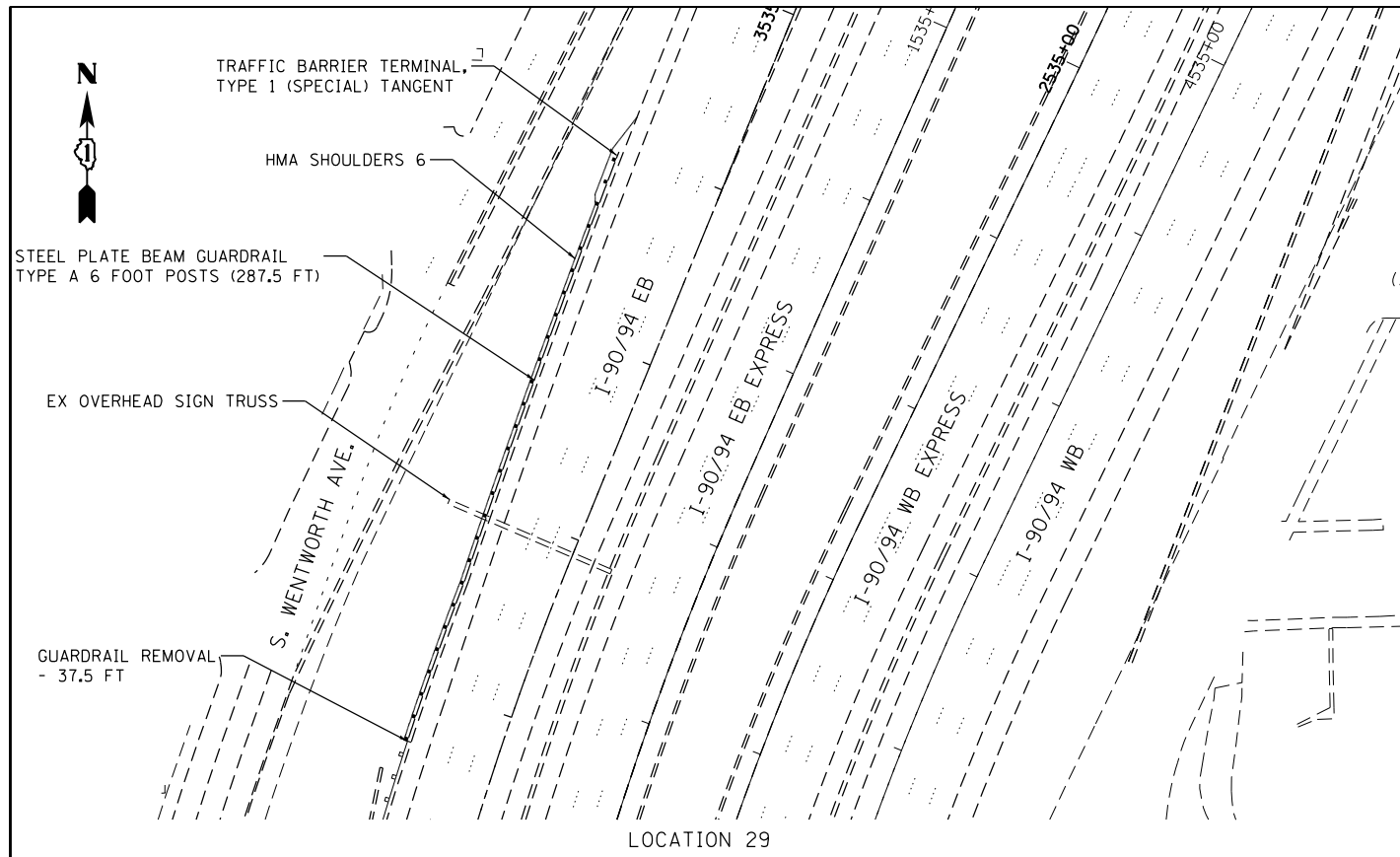
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| PLOT SCALE = 1"=50' | CHECKED - TH | REVISED - |
| PLOT DATE = 12/9/2015 | DATE - 12/10/15 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
 ROADWAY PLANS

SCALE: 1"=50' SHEET NO. 7 OF 8 SHEETS STA. TO STA.

| | | | | |
|------------------------------|-------------------|------------------|-----------------|--------------------|
| F.A.I. RTE. 90/94 | SECTION 2015-052I | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 19 |
| FED. ROAD DIST. NO. ILLINOIS | | FED. AID PROJECT | | CONTRACT NO. 62B06 |



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartha
 DATE PLOTTED: 12/9/2015 3:39:14 PM
 FILE NAME: 86150046-02-sht-GuardRailRoadPlan-08.dgn
 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plc-table.tbl



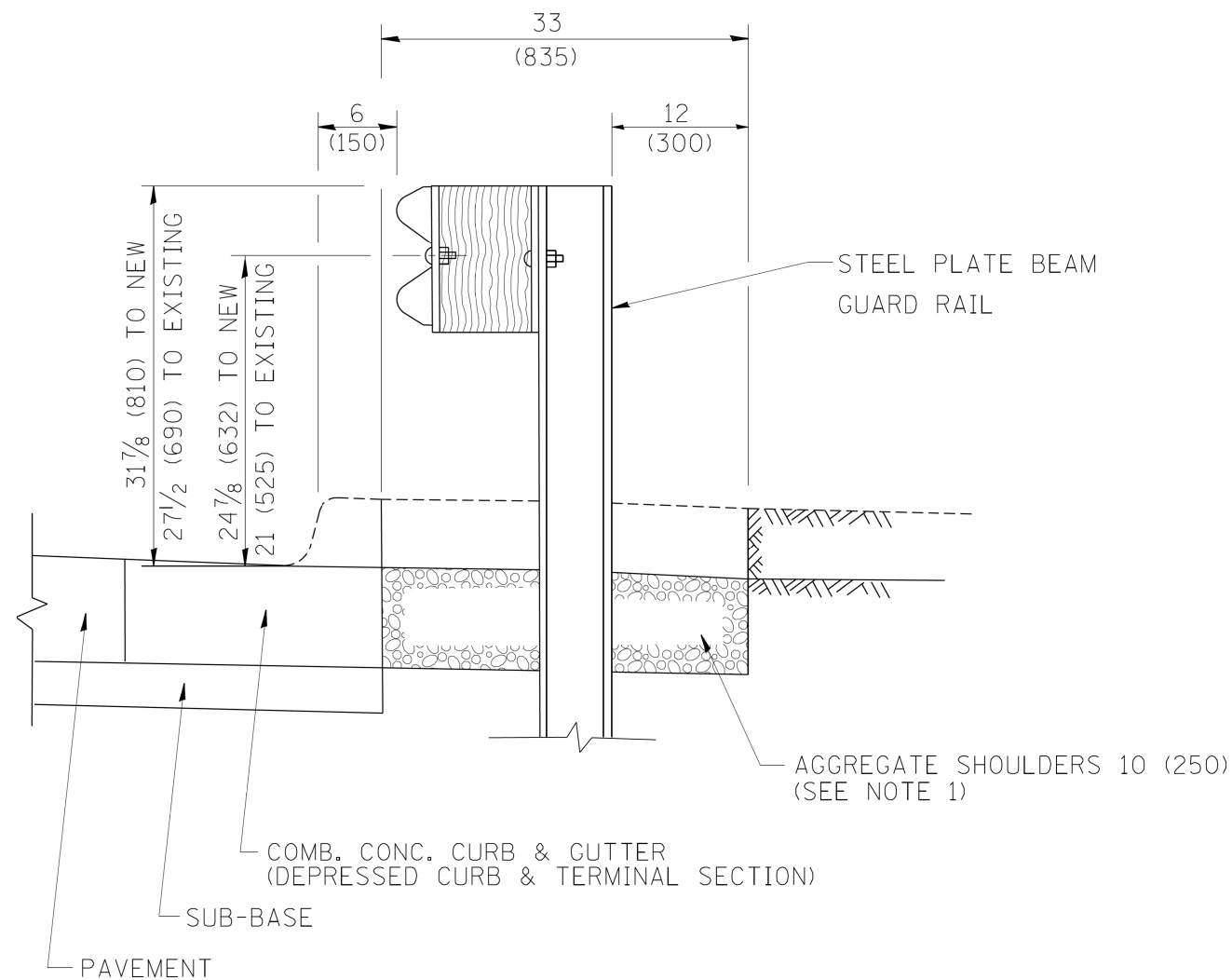
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| USER NAME = bhartha | DESIGNED - BH | REVISED - |
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| PLOT SCALE = 1"=50' | CHECKED - TH | REVISED - |
| PLOT DATE = 12/9/2015 | DATE - 12/10/15 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
 ROADWAY PLANS

SCALE: 1"=50' SHEET NO. 8 OF 8 SHEETS STA. TO STA.

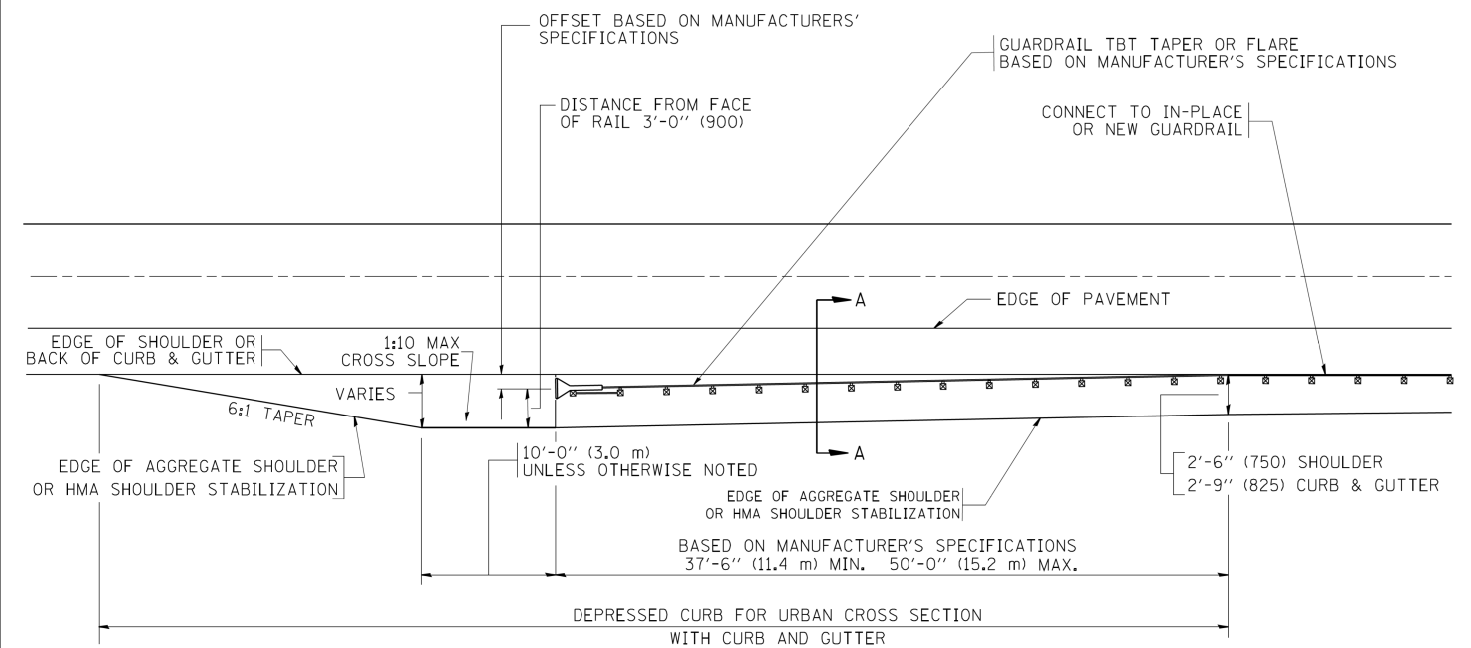
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| F.A.I. RTE. 90/94 | SECTION 2015-052I | COUNTY COOK | TOTAL SHEETS 31 | SHEET NO. 20 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62B06 | |



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

COMPANY NAME: #COMPANY NAME#
PROJECT CONTACT: #PROJECT CONTACT#
DATE PLOTTED: 12/17/2015 4:02:18 PM
FILE NAME: 86150046-02-shr-det-bd34.dgn
PLOT DRIVER: ILpdf.plt
PLOT TABLE: PLOT LABEL.tbl

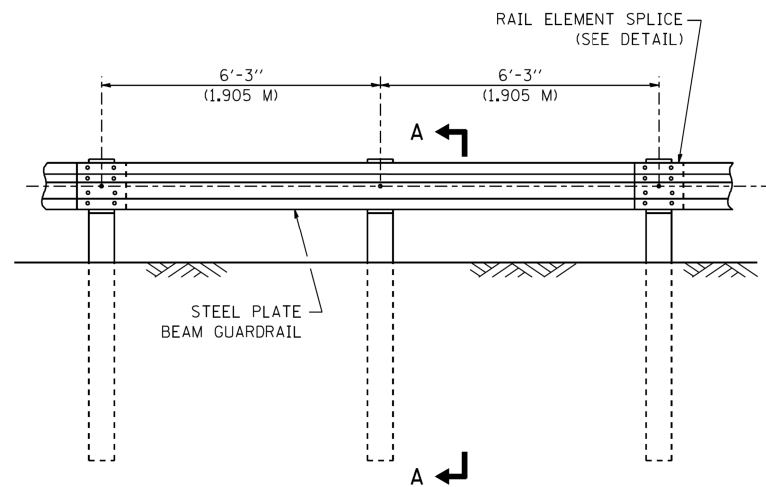
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| ci:\pwwork\pwi001\DRIVAKOSGN\d0108315\bd34.dgn | | DRAWN - | REVISED - R. BORO 01-01-07 |
| | PLOT SCALE = 49.9999' / 1" | CHECKED - | REVISED - R. BORO 12-08-2008 |
| | PLOT DATE = 9/21/2009 | DATE - 09-22-90 | REVISED - R. BORO 09-14-2009 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY 1 SPL.**

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

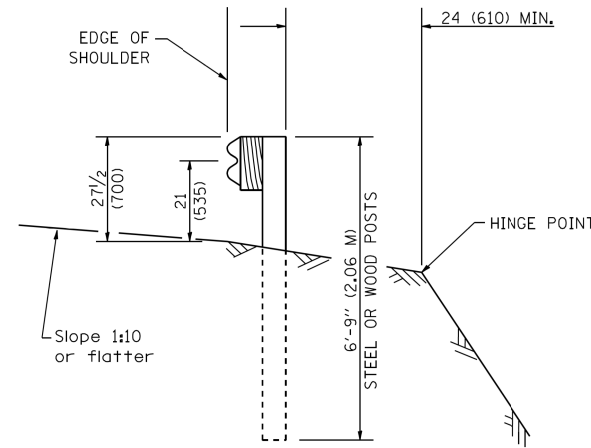
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------------|--------------|-----------|
| 90/94 | 2015-0521 | | 31 | 21 |
| BD600-10 (BD 34) | | CONTRACT NO. | 62B06 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



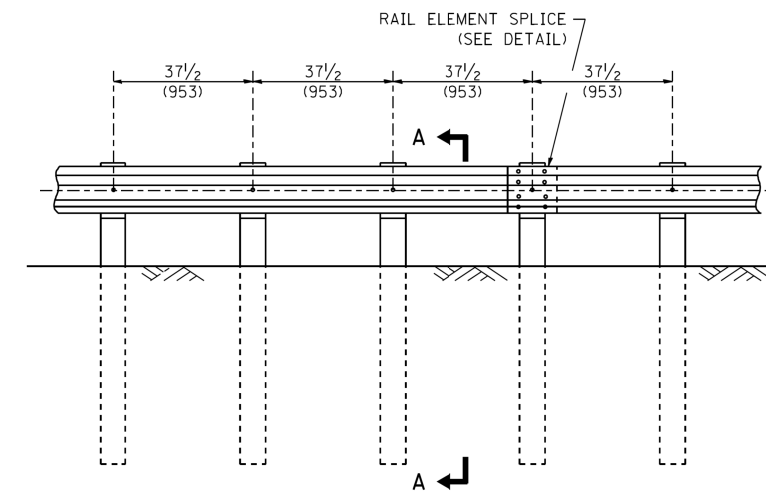
ELEVATION

TYPE A

6'-3" (1.905 M) TYPICAL POST SPACING



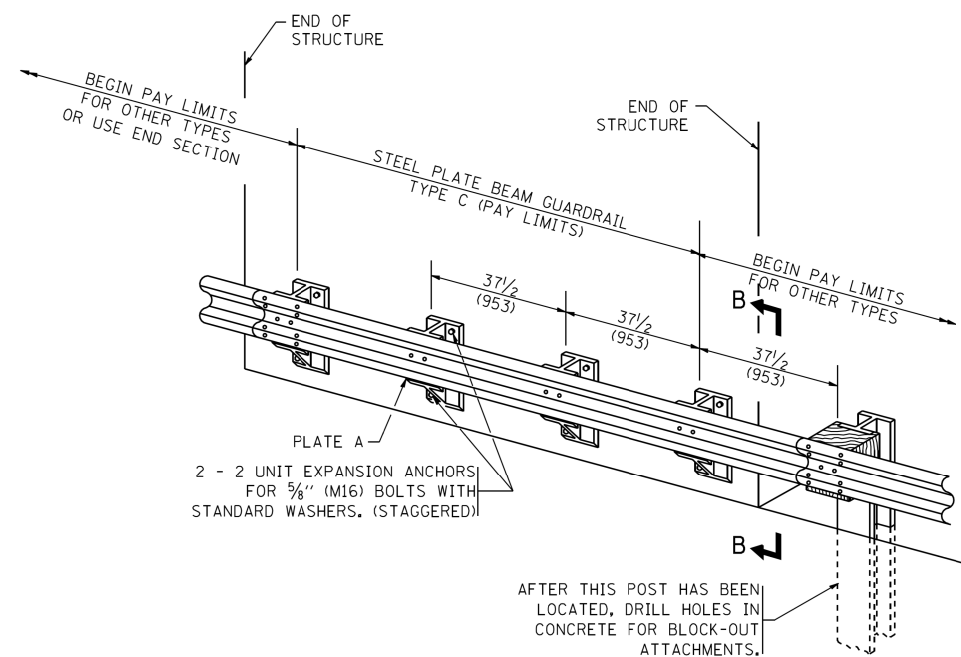
SECTION A-A



ELEVATION

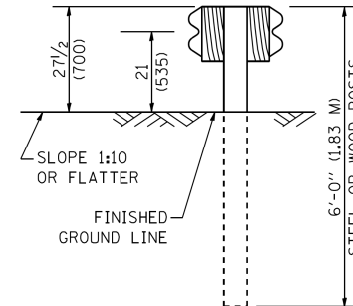
TYPE A

37 1/2 (953) CLOSED POST SPACING

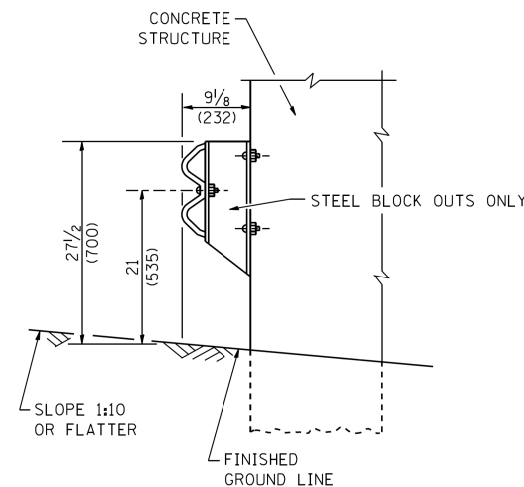


TYPE C

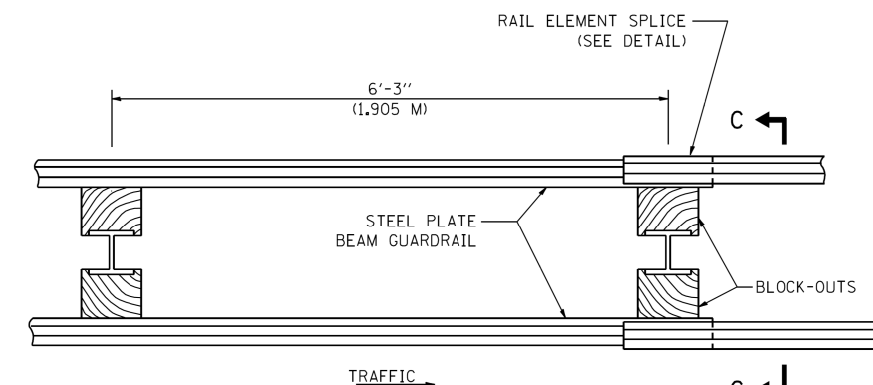
37 1/2 (953) BLOCK-OUT SPACING



SECTION C-C



SECTION B-B



PLAN

TYPE D

DOUBLE STEEL PLATE BEAM GUARDRAIL
6'-3" (1.905 M) TYPICAL POST SPACING

GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

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

THE EXISTING STEEL POSTS MAY BE DRILLED TO MATCH THE BOLT PATTERN SHOWN HEREIN FOR THE WOOD BLOCK-OUT, OR A NEW STEEL POST SHALL BE PROVIDED.

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL SYSTEM USED PRIOR TO JANUARY 1, 2007. FOR DETAILS ON THE MIDWEST GUARDRAIL SYSTEM, SEE STANDARD 630001.

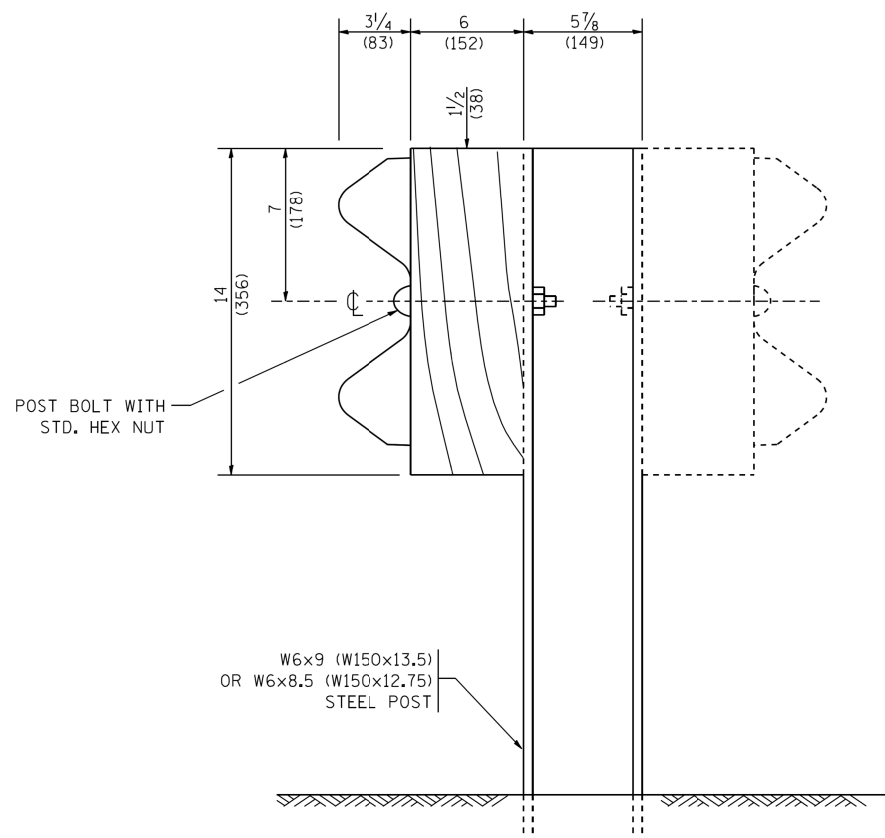
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PLOT DRIVER: ILpdf.plt
PLOT TABLE: PLOT LABEL.tbl

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| W:\dststd\22x34\bm21.dgn | | DRAWN - | REVISED - |
| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |

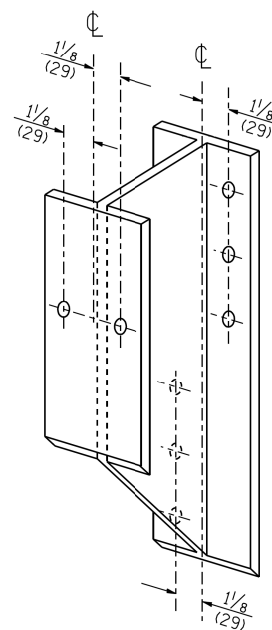
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|-------------------------|------|---------|
| REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL | | | |
| SCALE: NONE | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA. |

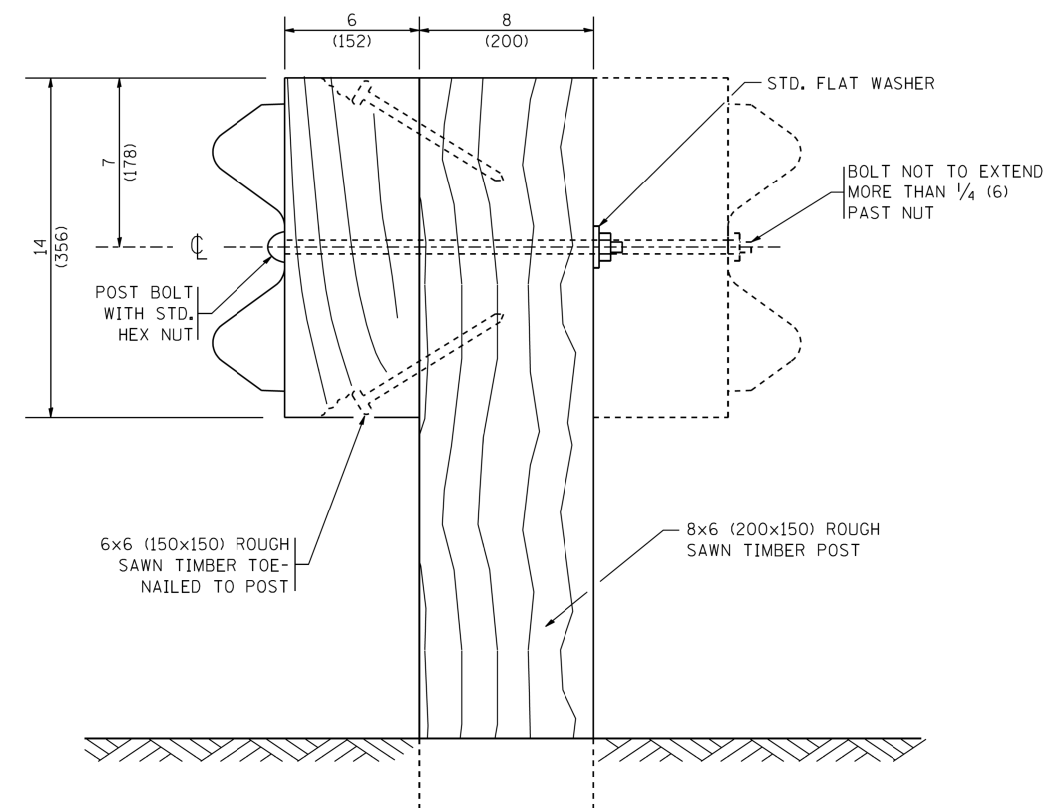
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|---|-----------|--------------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2015-0521 | | 31 | 22 |
| BM-21 | | CONTRACT NO. | 62B06 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



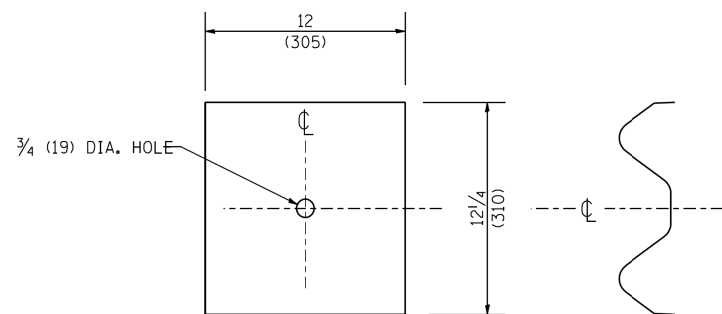
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL



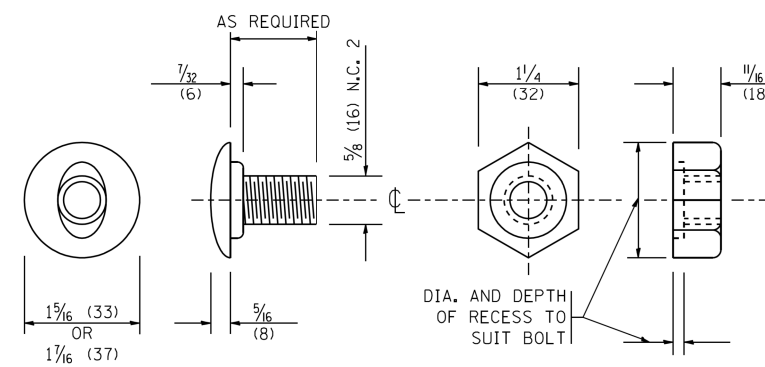
WOOD POST CONSTRUCTION



NOTE:

PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.

PLATE A



POST OR SPLICE BOLT & NUT

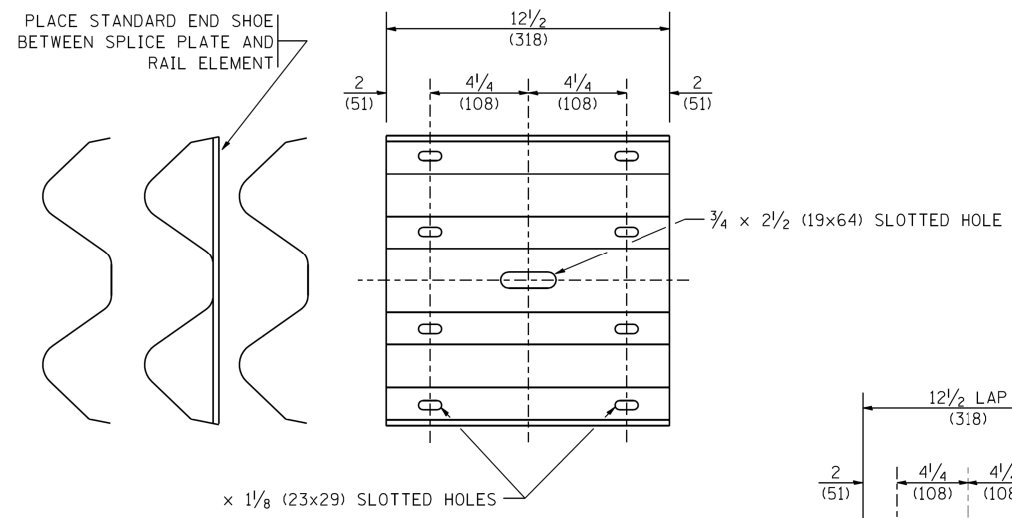
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| PLOT DATE = 1/4/2008 | | DATE - | REVISED - |

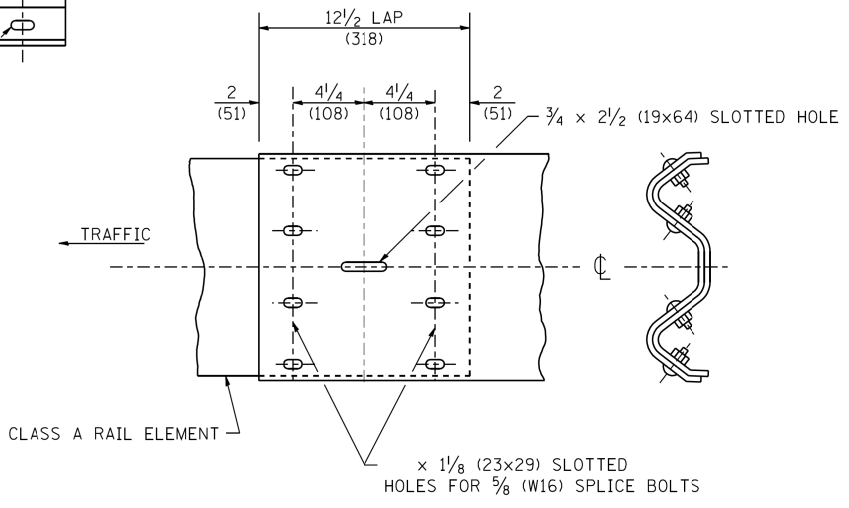
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

| | | | |
|--|-------------------------|------|---------|
| REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL | | | |
| SCALE: NONE | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA. |

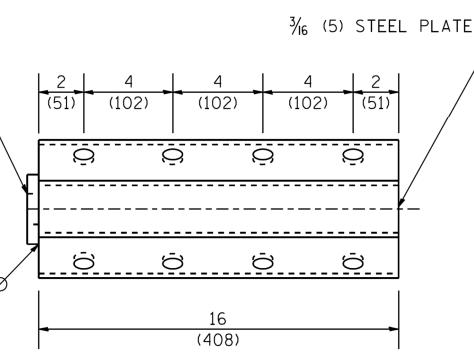
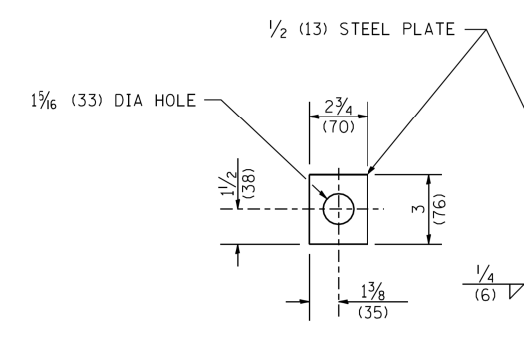
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| F.A.I. RTE. 90/94 | SECTION 2015-0521 BM-21 | COUNTY | TOTAL SHEETS 31 | SHEET NO. 23 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | CONTRACT NO. 62B06 | | |



SPLICE PLATE



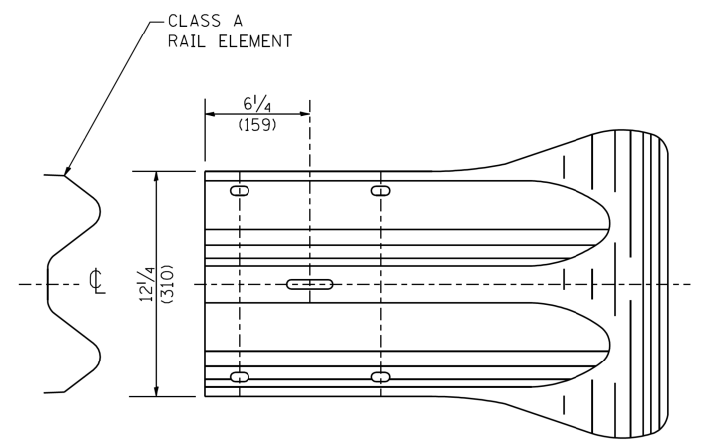
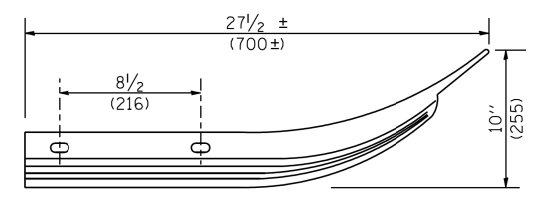
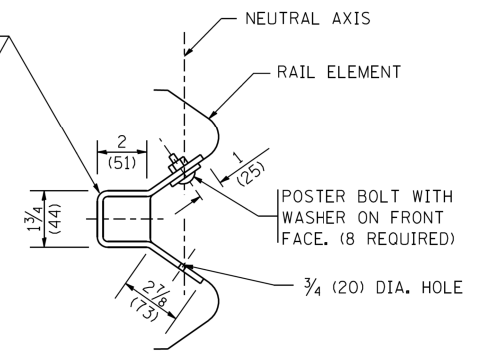
RAIL ELEMENT SPLICE



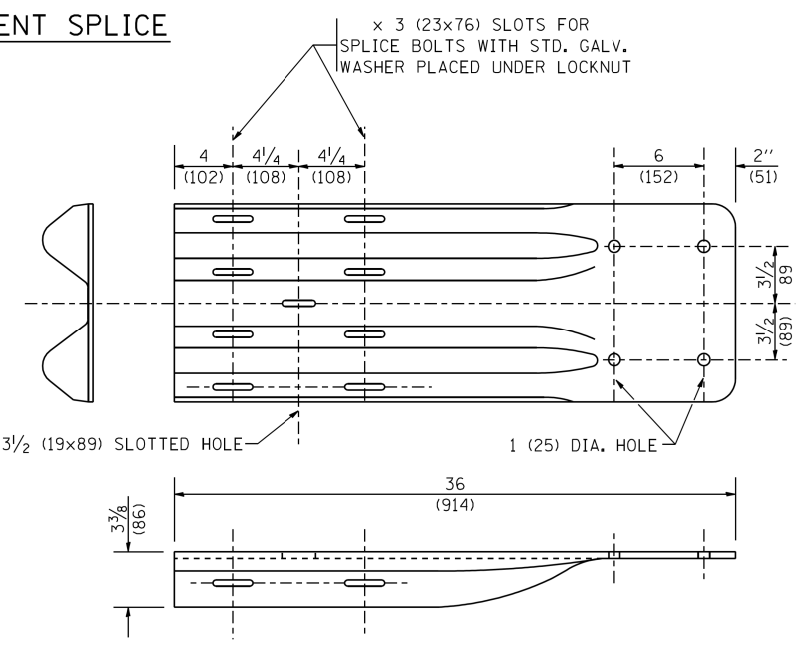
NOTE:

ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

ANCHORE PLATE T DETAILS



END SECTION



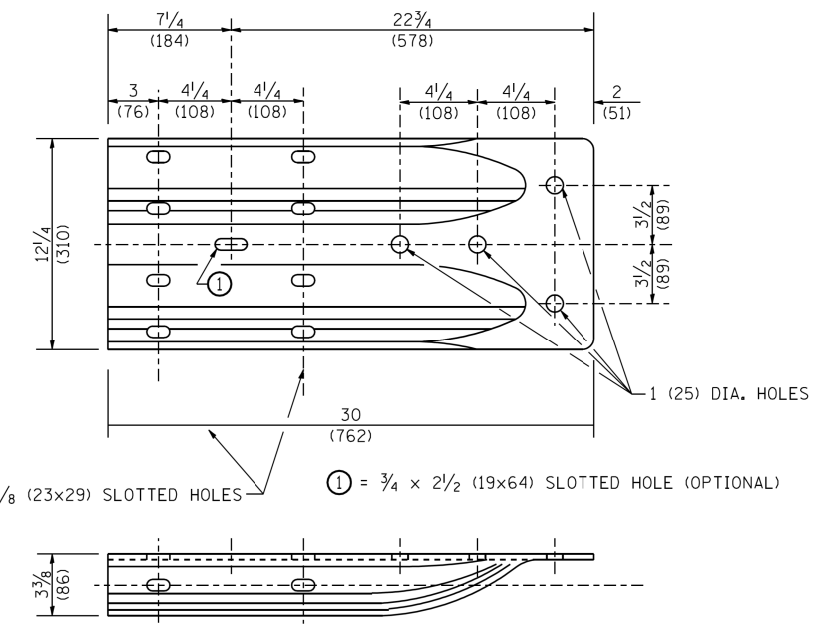
END SHOE

NOTE:

WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW GUARDRAIL MOVEMENT.

THE STANDARD END SHOE SHALL BE ATTACHED TO THE CONCRETE WITH PRE-DRILLED OR SELF-DRILLING ANCHOR BOLTS. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

EXTERNALLY THREADED STUDS PROTRUDING FROM THE SURFACE OF THE CONCRETE WILL NOT BE PERMITTED.



ALTERNATE END SHOE

COMPANY NAME: #COMPANY NAME#
 PROJECT CONTACT: #PROJECT CONTACT#
 DATE PLOTTED: 12/7/2015 5:02:22 PM
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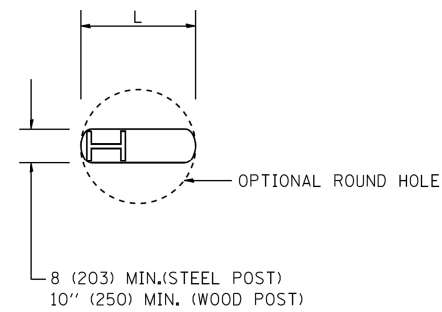
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| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

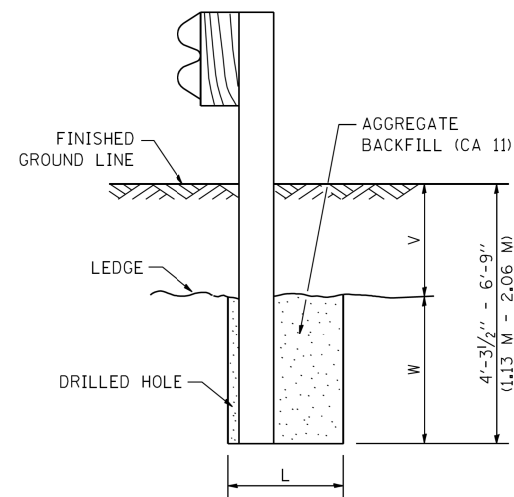
**REMOVE AND REERECT
 STEEL PLATE BEAM GUARDRAIL**

SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. TO STA.

| | | | | |
|---|-----------|--------------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2015-0521 | | 31 | 24 |
| BM-21 | | CONTRACT NO. | 62B06 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



PLAN

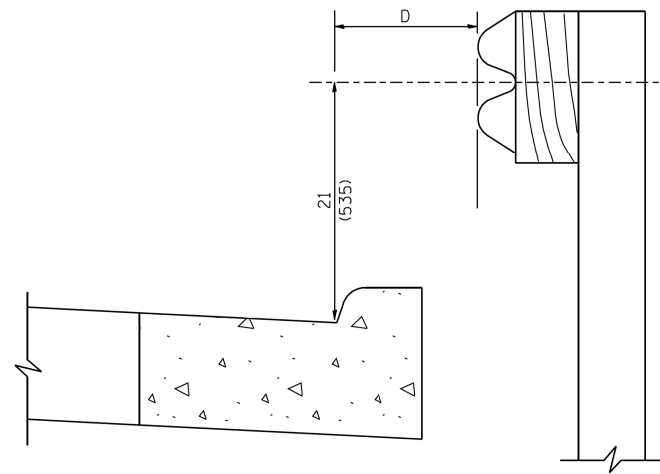


NOTE:

LEDGE LINE IS TOP OF ROCK LEDGE OR HARD SLAG FILL.

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



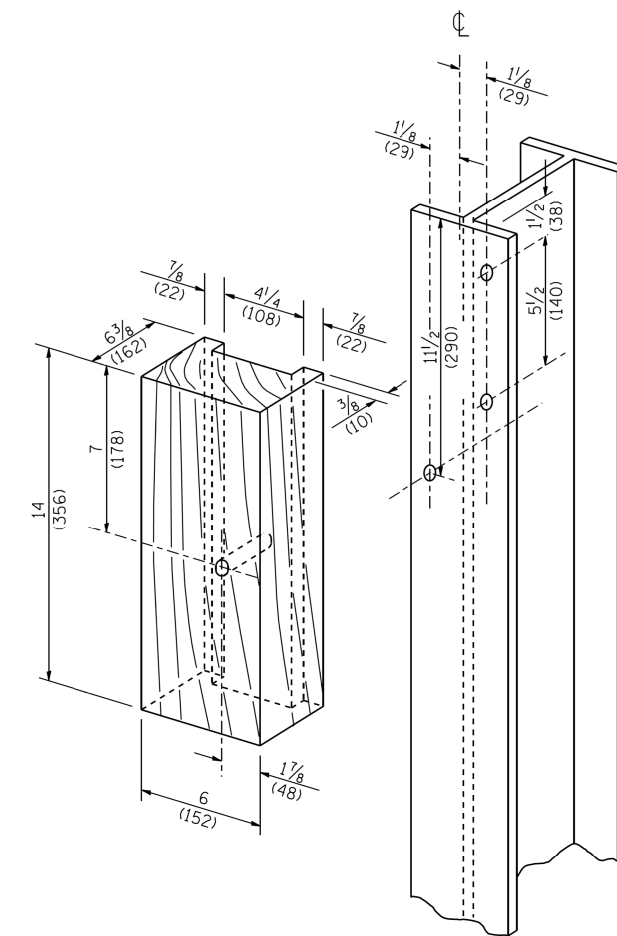
NOTE:

IF IT IS NECESSARY FOR D TO BE MORE THAN 12 (300) AND LESS THAN 10'-0'' (3.0 M) TYPE M-2 (M-5) CURB AND GUTTER (STD. 606001) SHALL BE USED IN FRONT OF AND IN ADVANCE OF THE GUARDRAIL.

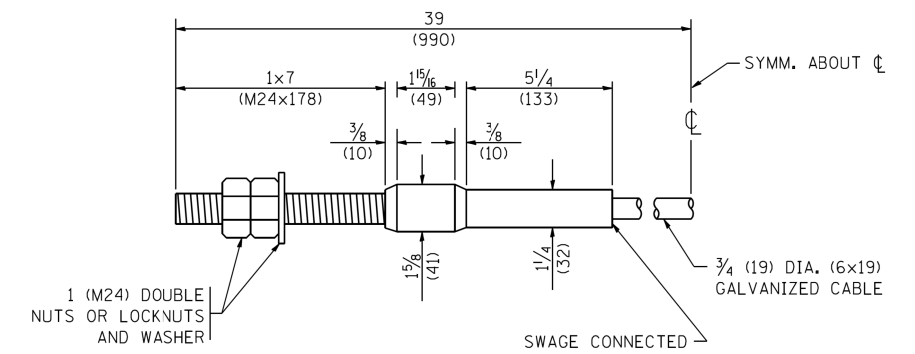
GUARDRAIL PLACED BEHIND CURB

(D = 0 DESIRABLE TO 12 (300) MAXIMUM)

| V | W | L | |
|----------------------------------|---------------------|-------------|-------------|
| | | STEEL POST | WOOD POST |
| 0 - 18 (0 - 460) | 24 (610) | 21 (530) | 23 (580) |
| >18 - 41.5 (> 460 - 825) | 12 (305) | 8 (203) | 10 (250) |
| >41.5 - 53.5 (> 825 - 1.13 M) | 12 - 0 (350 - 0) | 8 (203) | 10 (250) |



WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

(40,000 LBS (18,100 KG) MIN. BREAKING STRENGTH)
TIGHTEN TO TAUT TENSION

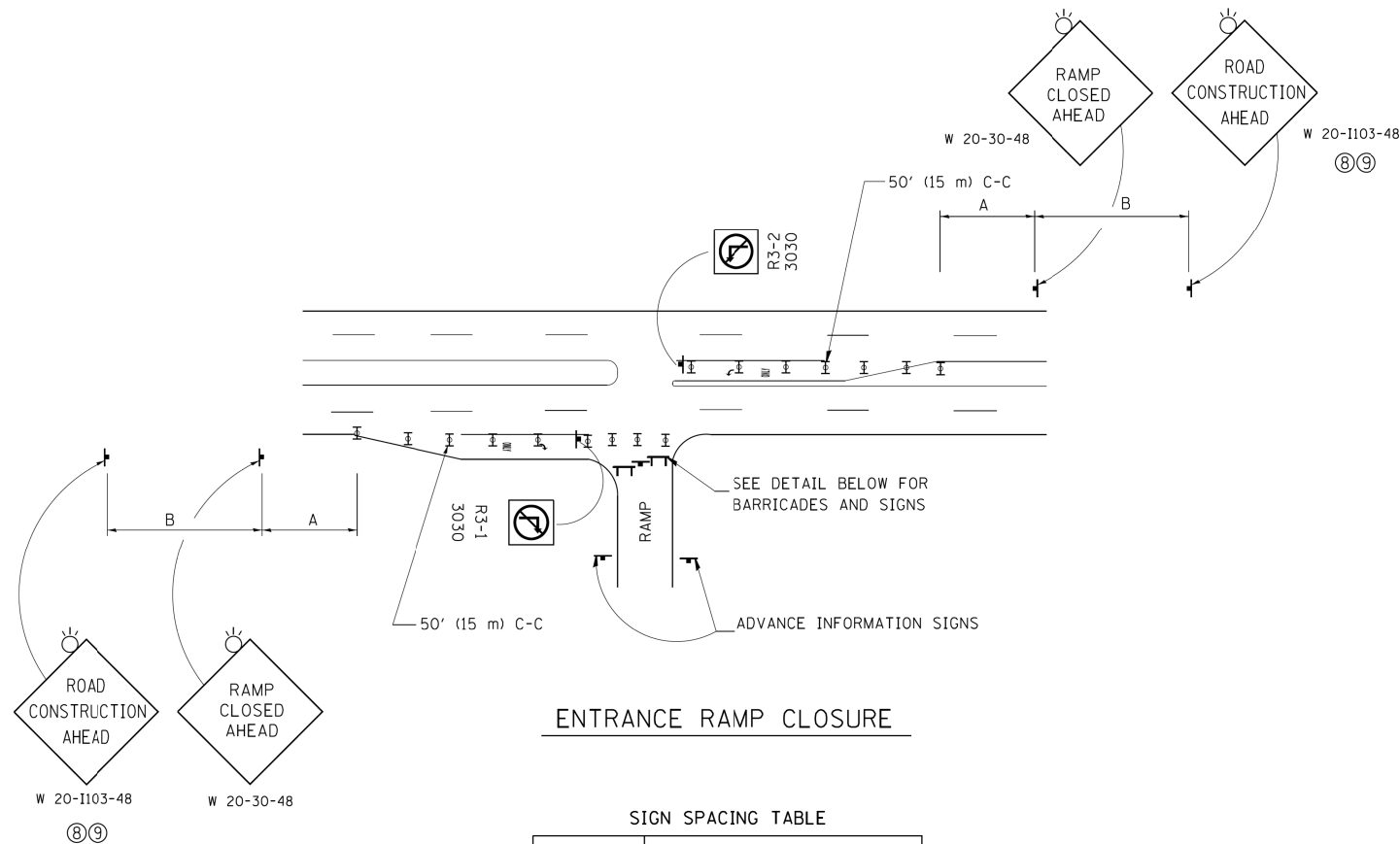
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PLOT TABLE: PLOT LABEL.tbl

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|---------------------------|-----------------------|------------|--------------------|
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| W:\diststd\22x34\bm21.dgn | | DRAWN - | REVISED - |
| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|--|-------------------------|------|---------|
| REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL | | | |
| SCALE: NONE | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA. |

| | | | | |
|---|-------------------|--------------|-----------------|--------------|
| F.A.I. RTE. 90/94 | SECTION 2015-0521 | COUNTY | TOTAL SHEETS 31 | SHEET NO. 25 |
| BM-21 | | CONTRACT NO. | 62B06 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

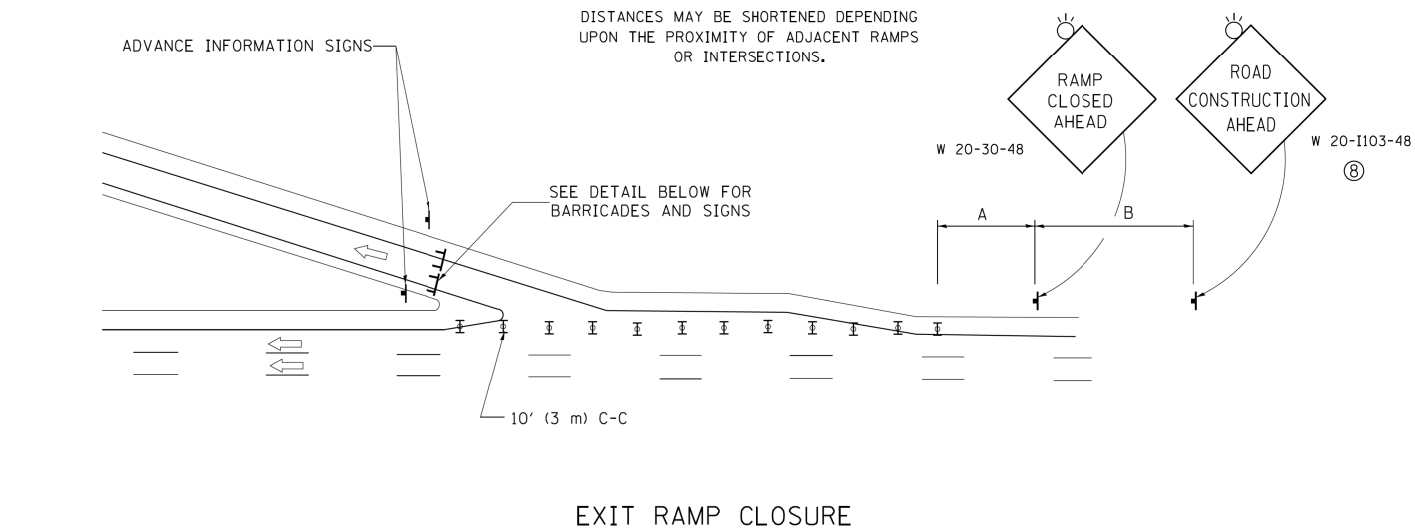


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

| FACILITY | DISTANCE BETWEEN SIGNS | |
|-------------------------|------------------------|------------------|
| | A | B |
| EXPRESSWAY >24 HOURS | 1000' (300 m) | 1500' (450 m) |
| EXPRESSWAY <24 HOURS | 500' (150 m) | 500' (150 m) |
| ARTERIAL 55 MPH | 500' (150 m) | 500' (150 m) |
| ARTERIAL 50-45 MPH | 350' (100 m) | 350' (100 m) |
| ARTERIAL <45 MPH | 200' (60 m) | 200' (60 m) |

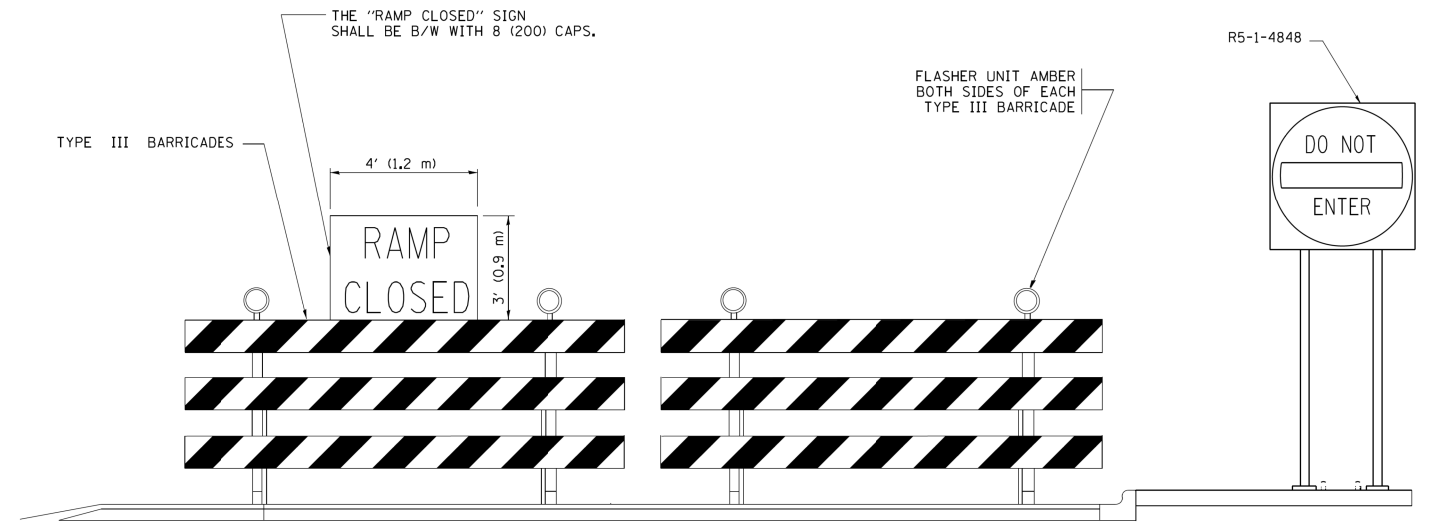
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

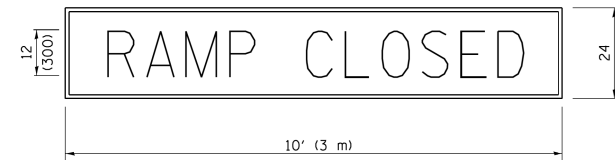
SYMBOLS

- ⊥ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊥ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

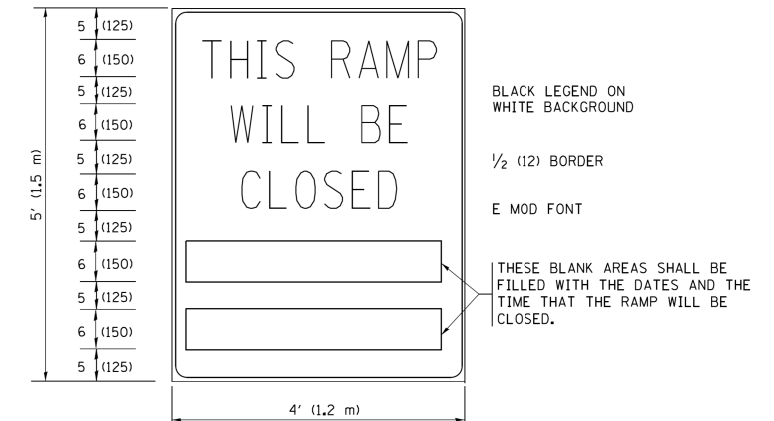
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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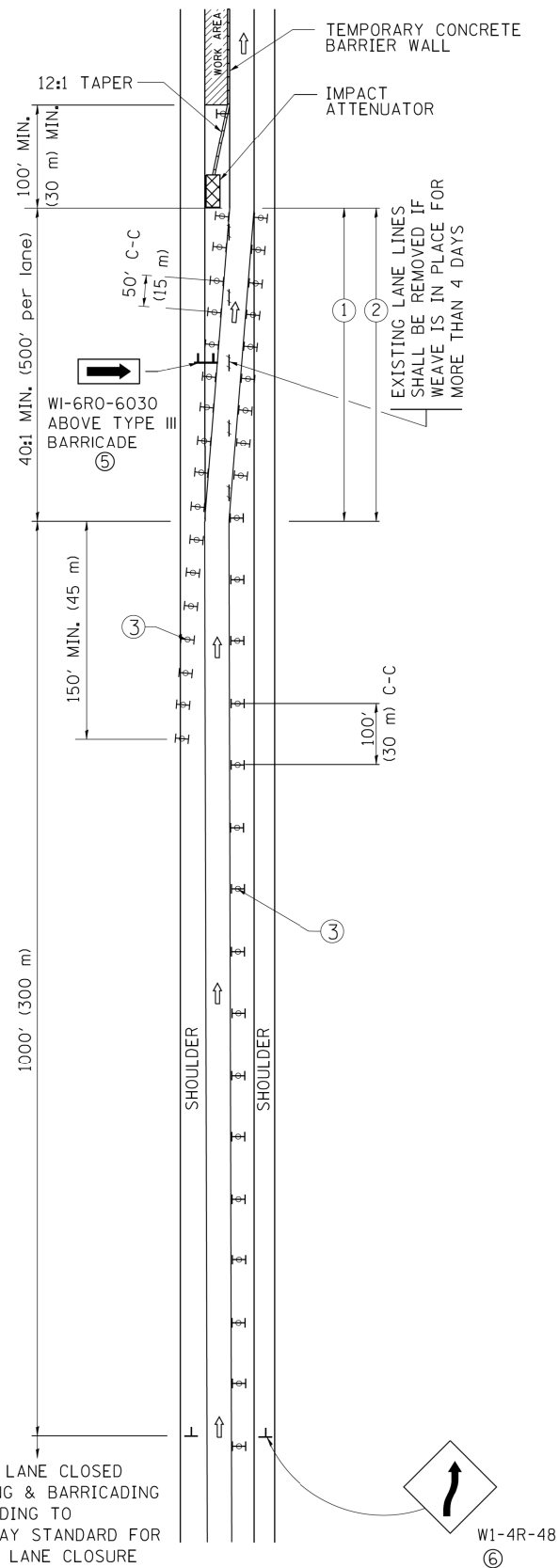
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT RAMP
 CLOSURE DETAILS

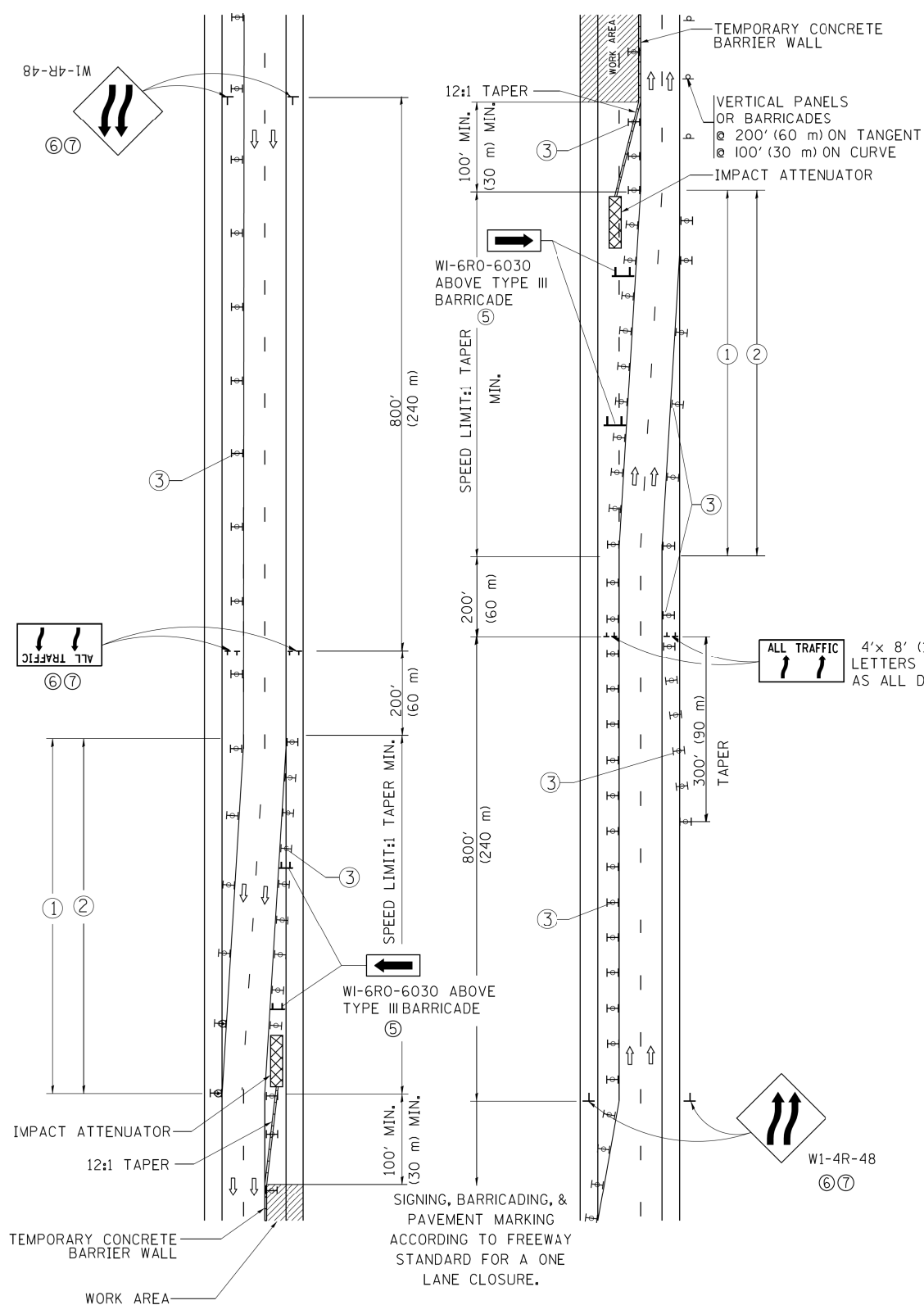
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|-----------|--------------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2015-0521 | | 31 | 26 |
| TC-08 | | CONTRACT NO. | 62B06 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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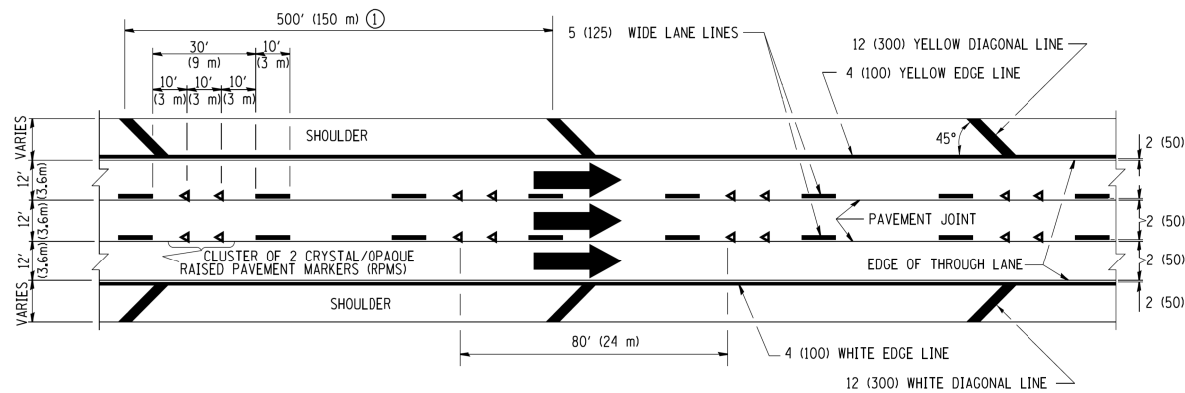
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| | | CHECKED - | REVISED - SPB 12-09 |
| | | DATE - 02-87 | REVISED - MD 06-13 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

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

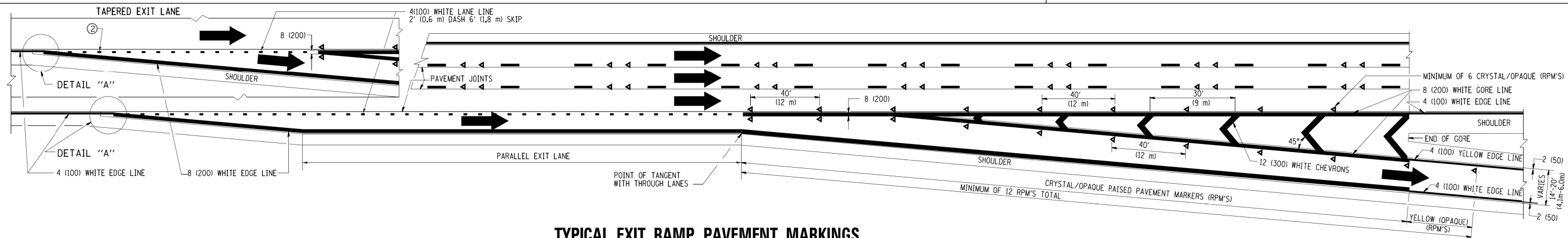
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------------|--------------|-----------|
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| TC-09 | | CONTRACT NO. | 62B06 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



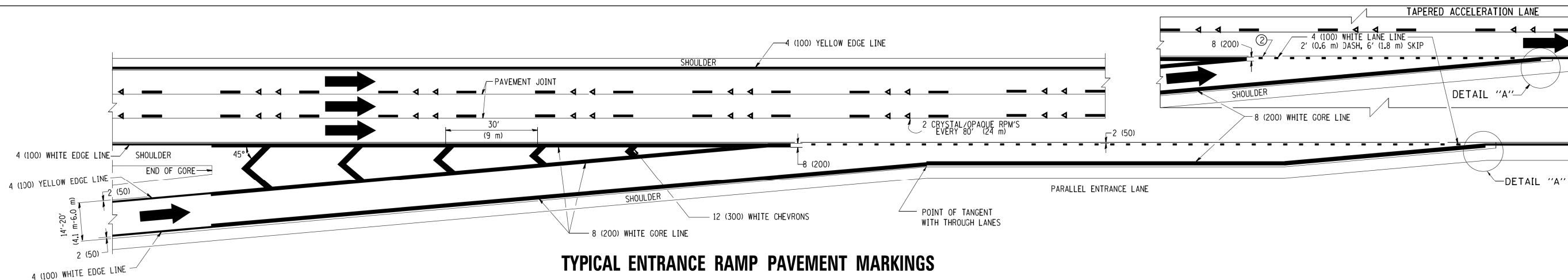
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

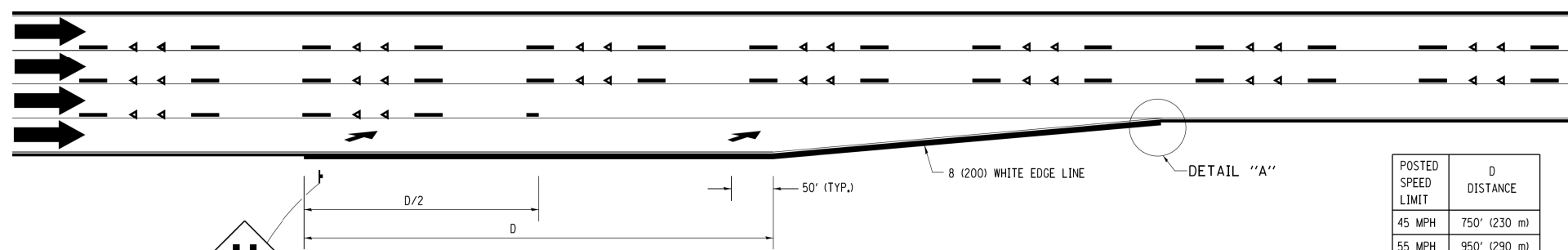
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



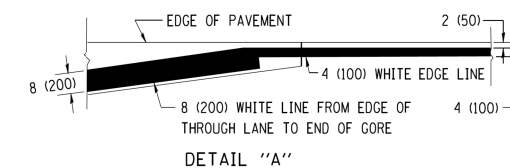
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS



NOTES:

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

| POSTED SPEED LIMIT | D DISTANCE |
|--------------------|---------------|
| 45 MPH | 750' (230 m) |
| 55 MPH | 950' (290 m) |
| 65 MPH | 1200' (365 m) |

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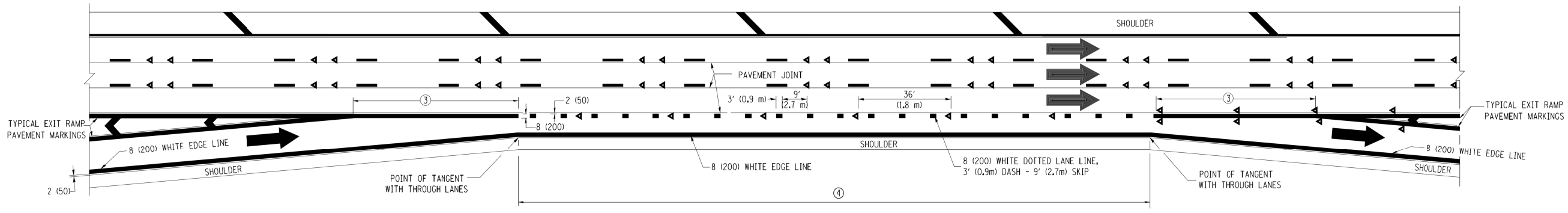
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| | | CHECKED - | REVISED - S.P.B. 01-10 |
| | | DATE - 01-90 | REVISED - M.D. 05-13 |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

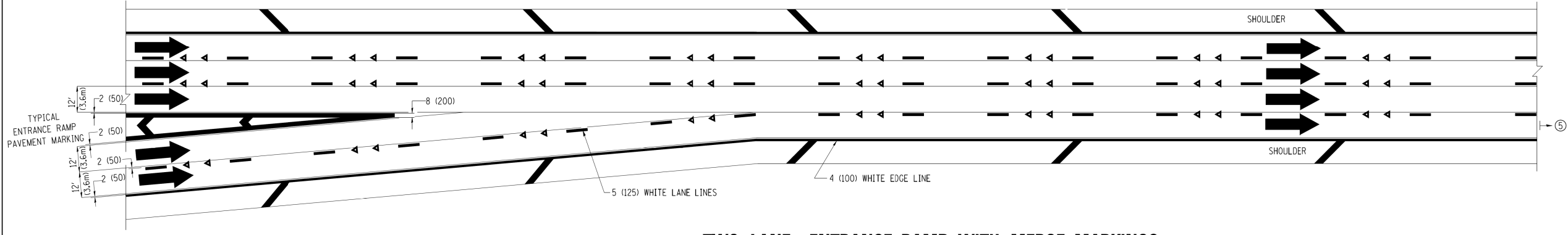
**MULTI-LANE FREEWAY
 PAVEMENT MARKING DETAILS**

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

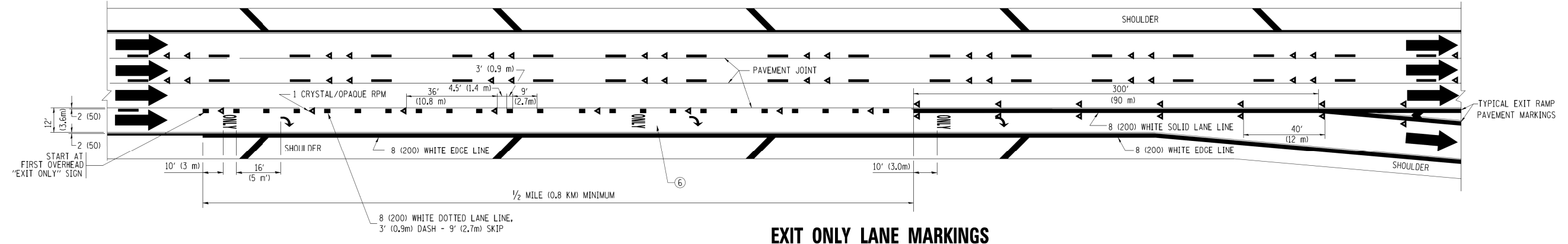
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| TC-12 | | CONTRACT NO. 62B06 | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | |



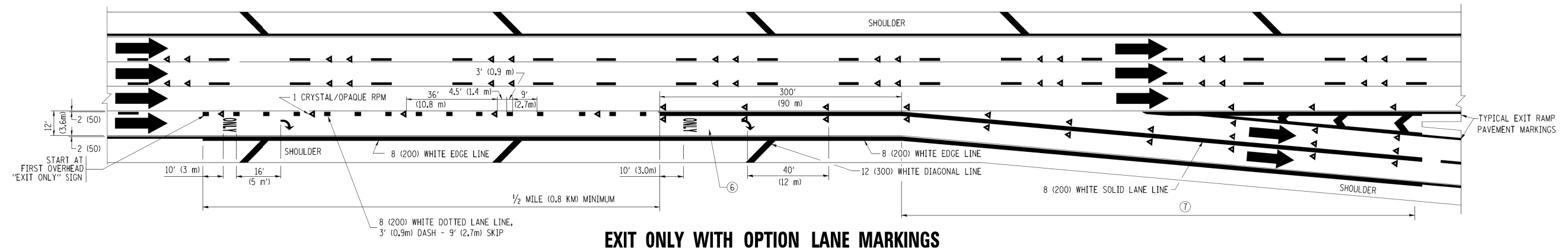
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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| | | DATE - 01-90 | REVISED - S.P.B. 01-10 |

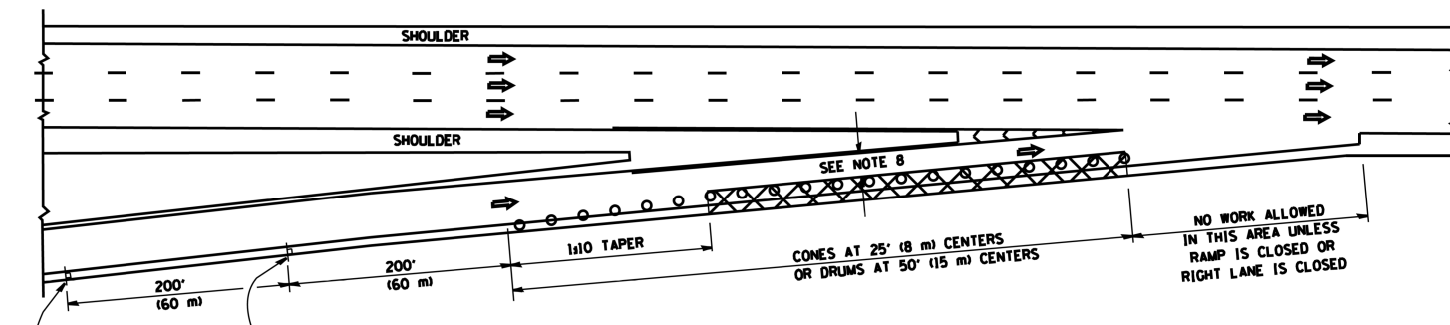
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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| MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS | | | |
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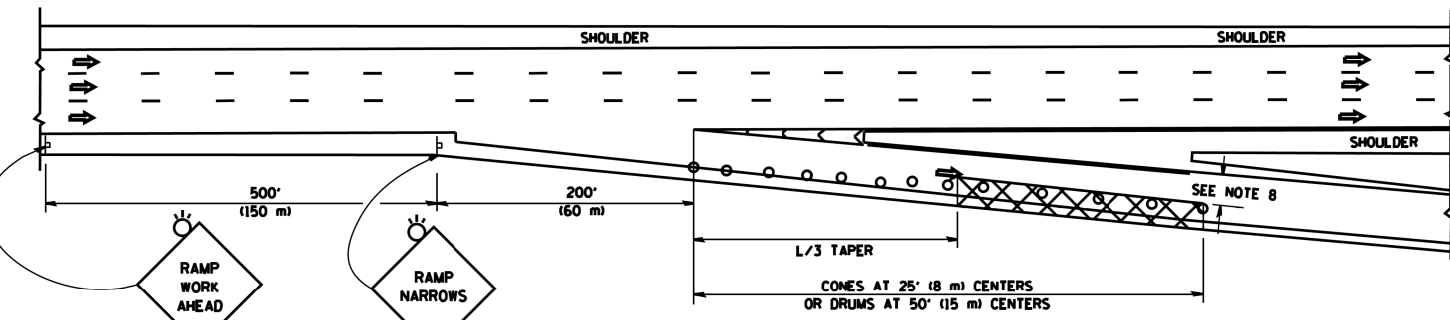
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| TC-12 | | CONTRACT NO. 62B06 | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | |

86150046-02-shr-det-1c12b.dgn

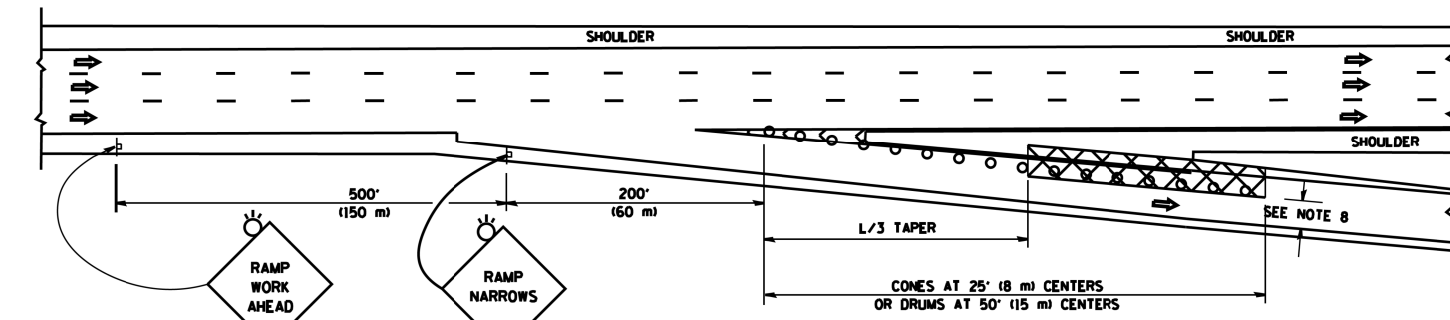
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

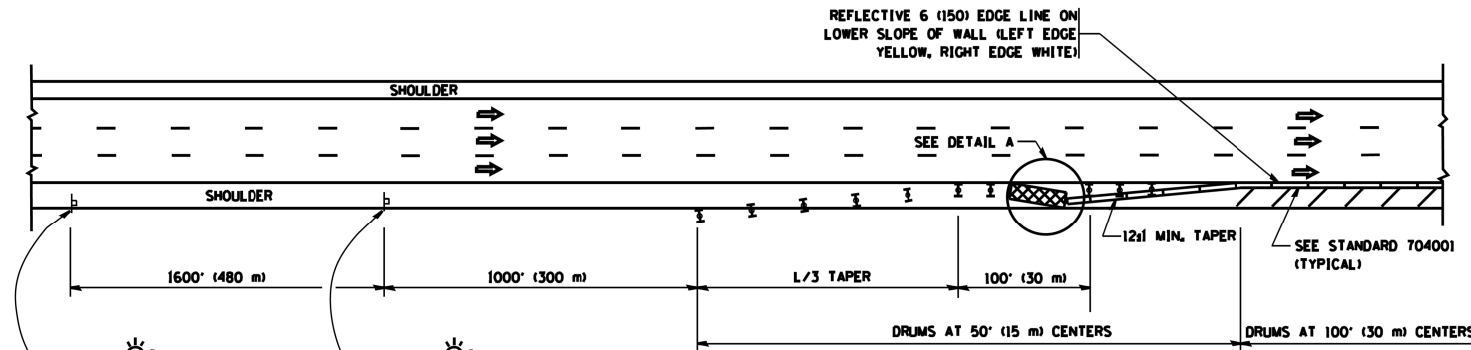
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

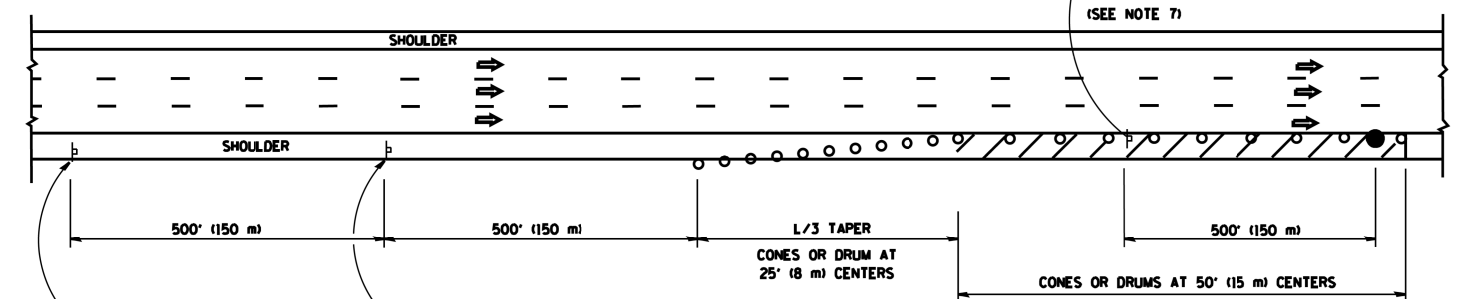
| | |
|---------------------------------|-------------------------|
| SPEED LIMIT | FORMULAS |
| 45 mph (80 km/h) OR GREATER: | METRIC ENGLISH |
| | $L=0.65(WNS)$ $L=(WNS)$ |

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCRoACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

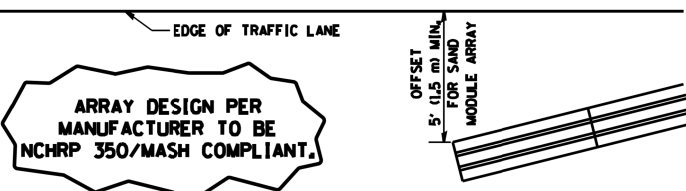
SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE



**DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)**

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

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DRAWN - D.W.S.
CHECKED -
DATE - 11-96

REVISED - J.A.F. 12-06
REVISED - S.P.B. 01-07
REVISED - S.P.B. 12-09
REVISED - M.D. 06-13

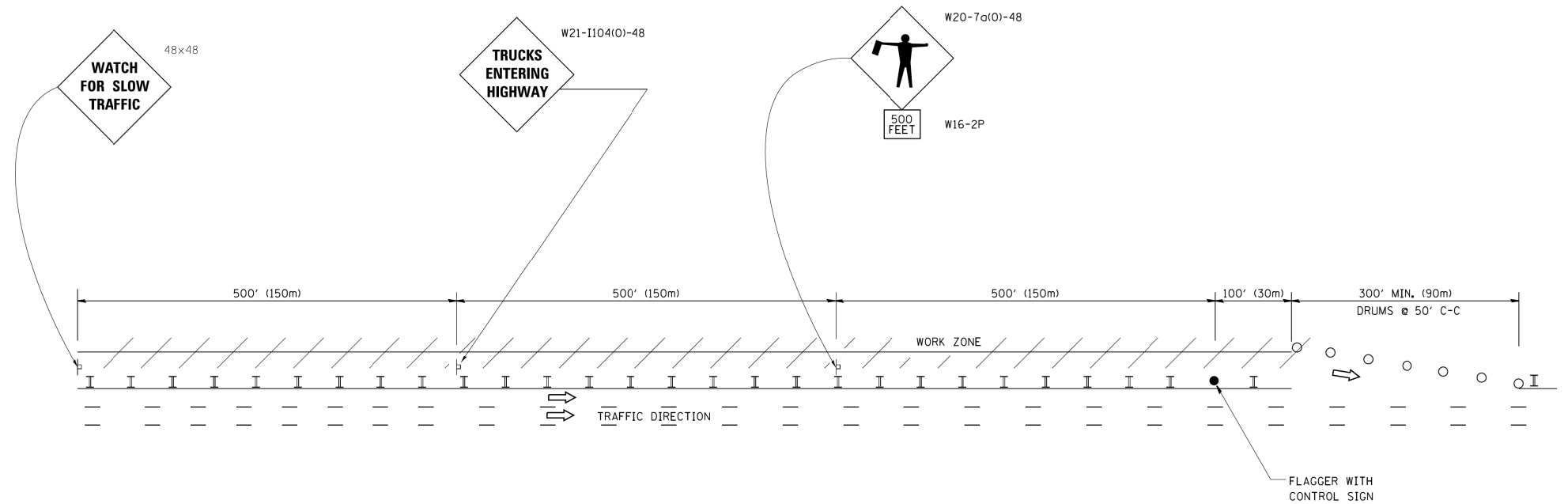
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

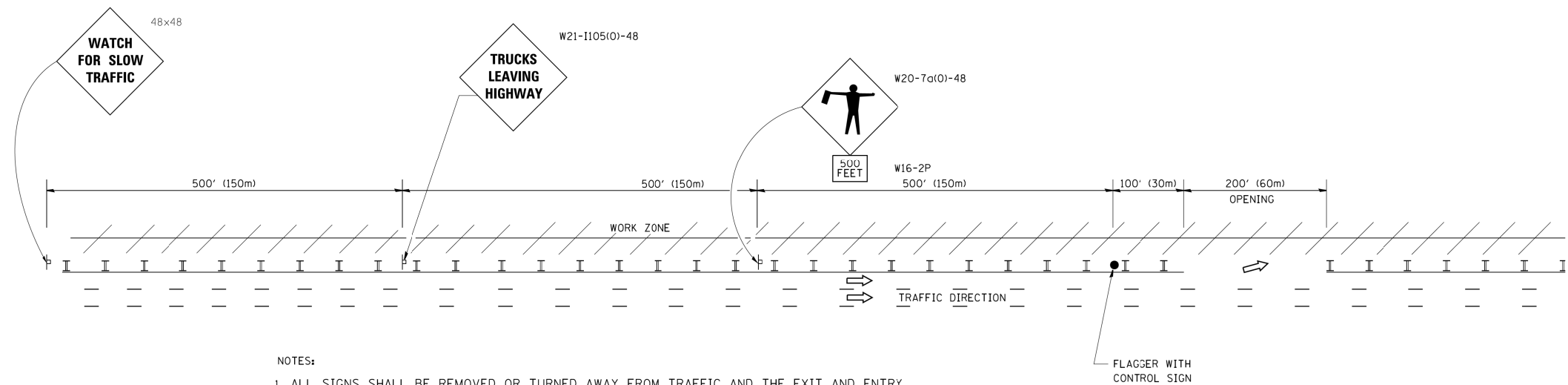
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| F.A.I. RTE. 90/94 | SECTION 2015-0521 TC-17 | COUNTY | TOTAL SHEETS 31 | SHEET NO. 30 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62B06 | |

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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| | PLOT DATE = 7/8/2013 | DATE - | REVISED - M.D. 06-13 |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
 AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| 90/94 | 2015-0521 | | 31 | 31 |
| TC-18 | | | CONTRACT NO. 62B06 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |