

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

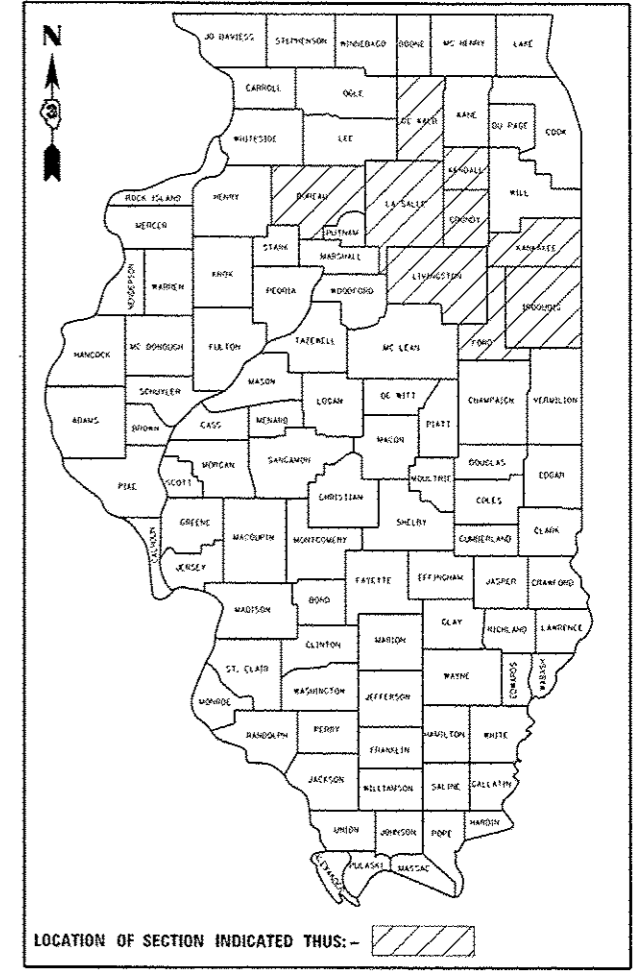
VARIOUS ROUTES
D-3 HIGHWAY DAMAGE REPAIR FY 16
VARIOUS COUNTIES

C-93-054-15

REPAIRING MOTORIST CAUSED DAMAGE TO HIGHWAY FACILITIES

| | | | | |
|-----------------------------------|----------|--------------|--------------|-----------|
| F.A. SHEET | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAB | * | VABIDUS | 43 | 1 |
| FED. ROAD DIST. NO. | ILLINOIS | CONTRACT NO. | 66E22 | |
| * D-3 HIGHWAY DAMAGE REPAIR FY 16 | | | | |

D-93-006-15



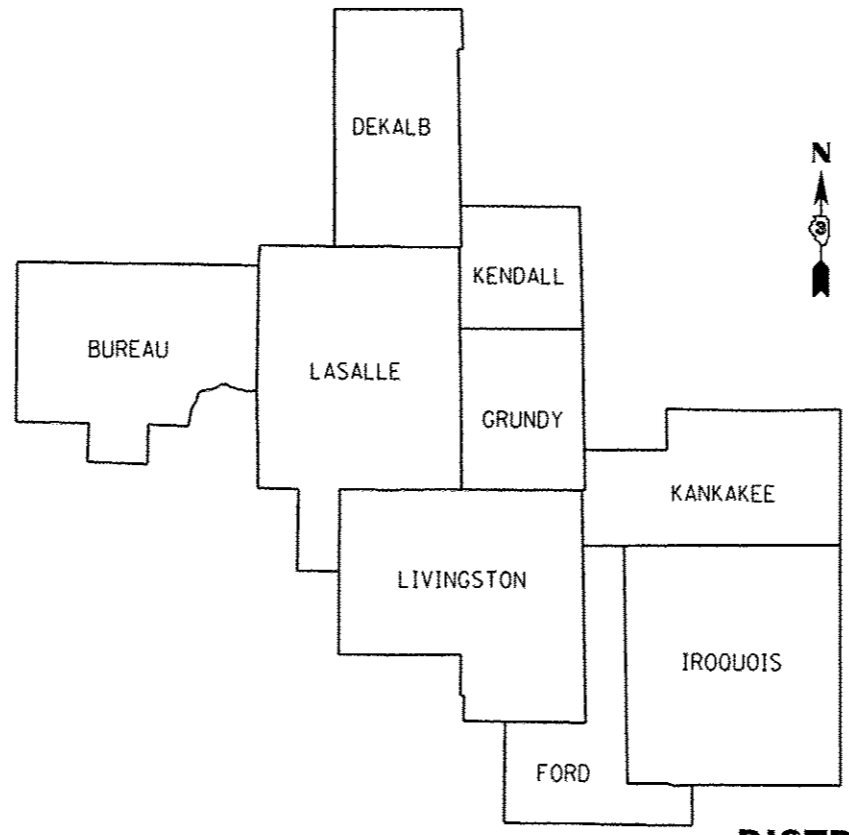
INDEX OF SHEETS

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- 23 - 43 PRE-MGS GUARDRAIL STANDARDS EFFECTIVE APRIL 1, 2006

HIGHWAY STANDARDS

SEE PAGE 2 FOR LIST OF HIGHWAY STANDARDS
EFFECTIVE JANUARY 1, 2015

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____



DISTRICT 3

LOCATION MAP
NOT TO SCALE

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

SAFETY AND CLAIMS MANAGER : KRIS FOGARTY
UNIT CHIEF : PAT BRABOY, P.E.

DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66E22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 24th 2015
Paul C. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8 2015
John D. Baranzelli P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 2015
Omer Osman P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PLOT DATE = 3/2/2015
FILE NAME = c:\pwworkspace\p1etschr\0426210\0366E22-sht-details.dgn
PLOT SCALE = 5000.0000 / in.
USER NAME = p1etschr

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

| | |
|-----------|---|
| 630001-10 | STEEL PLATE BEAM GUARDRAIL |
| 630101-09 | GUARDRAIL MOUNTED ON EXISTING CULVERTS |
| 630106-01 | LONG-SPAN GUARDRAIL OVER CULVERT |
| 630201-06 | PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL |
| 630301-06 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 631011-09 | TRAFFIC BARRIER TERMINAL, TYPE 2 |
| 631026-06 | TRAFFIC BARRIER TERMINAL, TYPE 5 |
| 631031-13 | TRAFFIC BARRIER TERMINAL, TYPE 6 |
| 631032-08 | TRAFFIC BARRIER TERMINAL, TYPE 6A |
| 631033-06 | TRAFFIC BARRIER TERMINAL, TYPE 6B |
| 631046-04 | TRAFFIC BARRIER TERMINAL, TYPE 10 |
| 635001-01 | DELINEATORS |
| 635006-03 | REFLECTOR AND TERMINAL MARKER PLACEMENT |
| 635011-02 | REFLECTOR MARKER AND MOUNTING DETAILS |
| 643001-02 | SAND MODULE IMPACT ATTENUATORS |
| 664001-02 | CHAIN LINK FENCE |
| 665001-02 | WOVEN WIRE FENCE |
| 701001-02 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY |
| 701006-05 | OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701101-04 | OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY |
| 701201-04 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS **e** 45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701400-08 | APPROACH TO 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 **e** 45 MPH |
| 701421-07 | LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS **e** 45 MPH TO 55 MPH |
| 701426-07 | LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS **e** 45 MPH |
| 701456-03 | PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY |
| 701501-06 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED |
| 701502-06 | URBAN LANE CLOSURE 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE |
| 701601-09 | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN |
| 701602-07 | URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE |
| 701606-10 | URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN |
| 701701-09 | URBAN SINGLE LANE CLOSURE, MULTILANE INTERSECTION |
| 701801-05 | LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE |
| 701901-04 | TRAFFIC CONTROL DEVICES |

GENERAL NOTES

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR IS ADVISED THAT THERE MAYBE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE CONTRACTOR IS REMINDED TO CAREFULLY EXAMINE THIS CONTRACT FOR NEW OR CHANGED CONDITONS FROM ANY PRVIOUS VERSION HE MAY HAVE EXAMINED.

THE REMOVAL OF DAMAGED GUARDRAIL AND DAMAGED POSTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE VARIOUS REPLACEMENT PAY ITEMS.

THE TRAFFIC CONTROL REQUIRED FOR THE REPAIRS OR INSTALLATION OF GUARDRAIL OR FENCE SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS OF WORK, AND SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL STANDARDS INCLUDED HEREIN.

ALL HARDWARE (NUTS, BOLTS, WASHERS, STAPLES, WIRES, TIES, ETC.) REQUIRED FOR THE REPAIRS TO OR INSTALLATION OF GUARDRAIL AND FENCE SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS OF WORK IN THIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.

HIGH TENSION CABLE BARRIER SYSTEM REPAIR SCHEDULE

| LOCATION / COUNTY / SYSTEM | SYSTEM TYPE | REPAIR | REPLACE | HTC SYSTEM | REMOVE & | REMOVE & | F&I HTC | FURNISH & DRIVE |
|---|---------------|--------|-------------|-------------|----------|---------------|------------|-----------------|
| | | HTC | HTC | MAINTENANCE | REPLACE | REPLACE | FOUNDATION | METAL SOCKET |
| | | | END SECTION | | HTC POST | HTC POST (HD) | & POST | with POST |
| I-55, MP 227-233 / GRUNDY / BRIFEN | SOCKETED | 1 | 2 | 3 | 4 | | 6 | 7 |
| I-55, MP 227-216 / GRUDY & LIVINGSTON / GIBLALTAR | DRIVEN | 1 | 2 | 3 | 4 | | | |
| I-57, MP 324-316 / KANKAKEE / GIBRALTAR | DRIVEN | 1 | 2 | 3 | 4 | | | |
| I-57, MP 292-277 / IROQUOIS / NUCOR | DRIVEN | 1 | 2 | 3 | 4 | | | |
| I-80, MP 105-97 / LASALLE & GRUNDY / TRINITY | DRIVEN (HD) | 1 | 2 | 3 | | 5 | | |
| I-80, MP 92-81 / LASALLE / TRINITY | DRIVEN (HD) | 1 | 2 | 3 | | 5 | | |

TABLE SHOWS EACH SYSTEM AND IT'S CORRESPONDING PAY ITEMS

REPAIR PAY ITEMS

- 1 = REPAIR HIGH TENSION CABLE
- 2 = REPLACE HIGH TENSION CABLE END SECTION
- 3 = HIGH TENSION CABLE SYSTEM MAINTENANCE
- 4 = REMOVE AND REPLACE HIGH TENSION CABLE POST
- 5 = REMOVE AND REPLACE HIGH TENSION CABLE POST (HEAVY DUTY)
- 6 = FURNISH AND INSTALL HIGH TENSION CABLE FOUNDATION AND POST
- 7 = FURNISH AND DRIVE METAL SOCKET WITH POST

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *Don Beau*
DISTRICT STUDIES & PLANS ENGINEER

DATE: *March 24, 2015*

EXAMINED BY: *[Signature]*
DISTRICT CONSTRUCTION ENGINEER

[Signature]
DISTRICT MATERIALS ENGINEER

Bruce A. Harker
DISTRICT OPERATIONS ENGINEER

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | |
|----------|---|------|----------------|-------------------|----------------|-------------|
| | | | | MCHD | CONSTR. MAINT. | HTC BARRIER |
| | | | | 100% MCHD | 100% STATE | 100% STATE |
| | | | | ROADWAY | ROADWAY | ROADWAY |
| | | | | 0021 | 0021 | 0021 |
| | | | | 07MOA, 01 | 07E0, 01 | 07A0, 02 |
| 63100045 | TRAFFIC BARRIER TERMINAL, TYPE 2 | EACH | 2 | 2 | | |
| 63100070 | TRAFFIC BARRIER TERMINAL, TYPE 5 | EACH | 1 | 1 | | |
| 63100085 | TRAFFIC BARRIER TERMINAL, TYPE 6 | EACH | 1 | 1 | | |
| 63100087 | TRAFFIC BARRIER TERMINAL, TYPE 6A | EACH | 1 | 1 | | |
| 63100089 | TRAFFIC BARRIER TERMINAL, TYPE 6B | EACH | 1 | 1 | | |
| 63100095 | TRAFFIC BARRIER TERMINAL, TYPE 8 | EACH | 1 | 1 | | |
| 63100101 | TRAFFIC BARRIER TERMINAL, TYPE 9 | EACH | 1 | 1 | | |
| 63100105 | TRAFFIC BARRIER TERMINAL, TYPE 10 | EACH | 1 | 1 | | |
| 63100115 | TRAFFIC BARRIER TERMINAL, TYPE 12 | EACH | 1 | 1 | | |
| 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 35 | 20 | 15 | |
| 63100169 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED | EACH | 4 | 2 | 2 | |
| 63301210 | REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A | FOOT | 150 | | 150 | |
| 63301215 | REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE B | FOOT | 25 | | 25 | |
| 63400105 | GUARD POSTS | EACH | 25 | 15 | 10 | |

| | | | | | | | | | | | | | |
|--|-------------------------------|------------------|-----------------|---|------------------------------|-------------|----------|--------|--------------------|---------------|---------------------------|--------------|-----------|
| FILE NAME * | USER NAME = pletachr | DESIGNED - _____ | REVISED - _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ei:\work\pilotachr\pilotachr\0426218\036622-ent-detail.dgn | PLOT SCALE = 5000.0000 1/ in. | DRAWN - _____ | REVISED - _____ | | SCALE: _____ | SHEET _____ | OF _____ | SHEETS | STA. _____ | TO STA. _____ | VARIABLES | 43 | 3 |
| Default | PLOT DATE = 3/23/2015 | CHECKED - _____ | REVISED - _____ | | | | | | CONTRACT NO. 66E22 | | ILLINOIS FED. AID PROJECT | | |
| | | DATE - _____ | REVISED - _____ | | | | | | | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | |
|----------|--|-------|----------------|-----------------------------|--|-------------------------------------|
| | | | | MCHD 100% MCHD ROADWAY 0021 | CONSTR. MAINT. 100% STATE ROADWAY 0021 | HTC BARRIER 100% STATE ROADWAY 0021 |
| | | | | 07MOA, 01 | 07A0, 01 | 07A0, 02 |
| | | | | | | |
| 64300260 | IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 1 | 1 | | |
| 66400105 | CHAIN LINK FENCE, 4' | FOOT | 150 | 100 | 50 | |
| 66400305 | CHAIN LINK FENCE, 6' | FOOT | 175 | 75 | 100 | |
| 66500105 | WOVEN WIRE FENCE, 4' | FOOT | 10000 | 5000 | 5000 | |
| 67100100 | MOBILIZATION | L SUM | 1 | 0.5 | 0.5 | |
| 78200410 | GUARDRAIL MARKERS, TYPE A | EACH | 200 | 100 | 100 | |
| X0321563 | REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL | EACH | 50 | 20 | 30 | |
| X0322878 | TIMBER CURB | FOOT | 32 | 32 | | |
| X0326126 | WOOD TERMINAL POST | EACH | 1 | 1 | | |
| X0327278 | REPAIR HIGH TENSION CABLE | FOOT | 450 | 300 | | 150 |
| X0327279 | REPLACE HIGH TENSION CABLE END SECTION | EACH | 3 | 1 | | 2 |
| X0327281 | REMOVE AND REPLACE HIGH TENSION CABLE POST | EACH | 750 | 500 | | 250 |
| X0327282 | REMOVE AND REPLACE HTC POST (HEAVY DUTY) | EACH | 200 | 100 | | 100 |
| X6300215 | RAIL ELEMENT PLATES | EACH | 600 | 300 | 300 | |

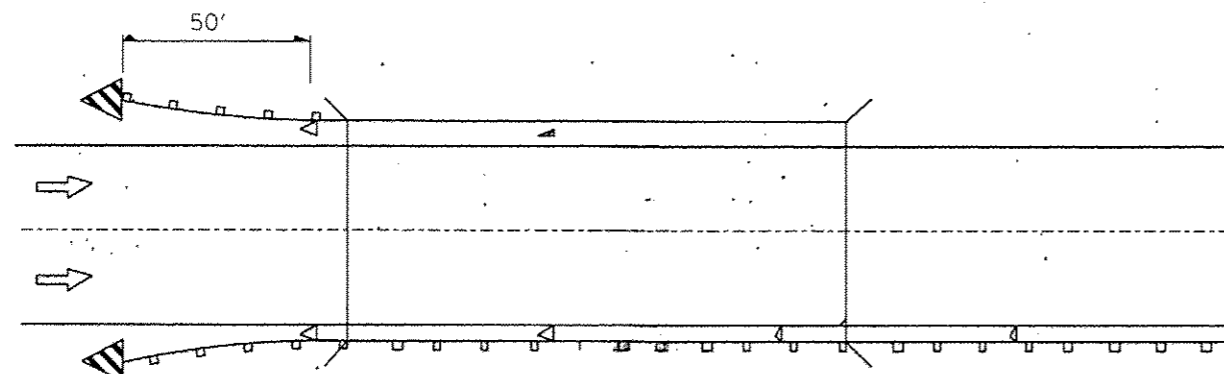
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|---|-------------------------------|------------|-----------|---|------------------------------|-------------|----------|--------|---------------------------|--------------------|--------|--------------|-----------|
| FILE NAME # | USER NAME = pletschr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | | | | P.A. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| cr:\pwork\p1dot\pletschr\6622\6622-sht-detail.dgn | PLOT SCALE = 5000.0000' / in. | DRAWN - | REVISED - | | SCALE: _____ | SHEET _____ | OF _____ | SHEETS | STA. _____ | TO STA. _____ | VARIES | 43 | 4 |
| Default | PLOT DATE = 3/23/2015 | CHECKED - | REVISED - | | | | | | ILLINOIS FEQ. A10 PROJECT | CONTRACT NO. 66E22 | | | |
| | | DATE - | REVISED - | | | | | | | | | | |

7/15/15

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | |
|----------|--|------|----------------|-------------------|----------------|-------------|
| | | | | MCHD | CONSTR. MAINT. | HTC BARRIER |
| | | | | 100% MCHD | 100% STATE | 100% STATE |
| | | | | ROADWAY | ROADWAY | ROADWAY |
| | | | | 0021 | 0021 | 0021 |
| | | | | 07MOA, 01 | 07AO, 01 | 07AO, 02 |
| Z0029659 | FURNISH AND INSTALL HIGH TENSION CABLE FOUNDATION AND POST | EACH | 25 | 15 | | 10 |
| Z0029660 | FURNISH AND DRIVE METAL SOCKET WITH POST | EACH | 20 | 10 | | 10 |
| Z0029665 | REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PL | ROOT | 50 | | 50 | |
| Z0052400 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 | EACH | 1 | | 1 | |
| Z0052600 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2 | EACH | 1 | 1 | | |
| Z0052700 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 3 | EACH | 1 | 1 | | |
| Z0052800 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 3A | EACH | 1 | 1 | | |
| Z0052900 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 4 | EACH | 1 | 1 | | |
| Z0053000 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 5 | EACH | 1 | 1 | | |
| Z0053200 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6 | EACH | 2 | 2 | | |
| Z0053210 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A | EACH | 2 | 2 | | |
| Z0053220 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B | EACH | 2 | 2 | | |
| Z0053400 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8 | EACH | 1 | 1 | | |
| Z0053500 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 9 | EACH | 1 | 1 | | |
| Z0053575 | REPAIR TRAFFIC BARRIER TERMINAL, TYPE 12 | EACH | 1 | 1 | | |

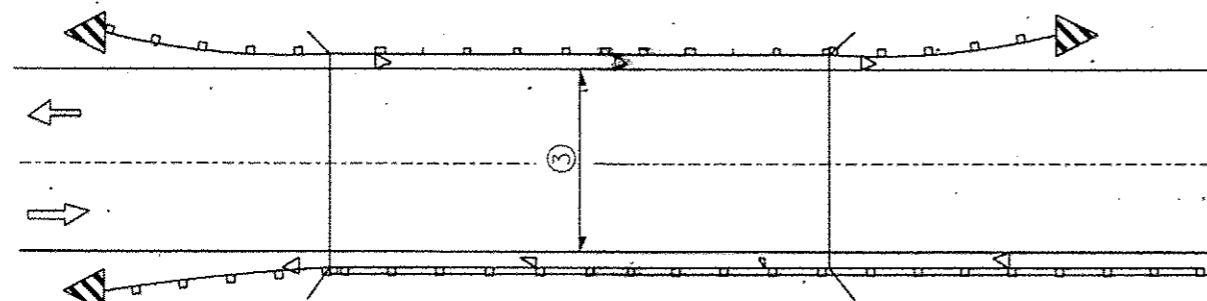
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| | | | | | | | | | | | | |
|--|-----------------------|------------|-----------|---|---|--|--|--------------------|---------|--------|--------------|-----------|
| FILE NAME * | USER NAME * pletschr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\p-work\p-102\pletschr\102426210\030 | RE22-sh1-detail.dgn | DRAWN - | REVISED - | | | | | VAR. | * | VARIES | 43 | 6 |
| PLOT SCALE = 6000.0000' / 1 in. | CHECKED - | REVISED - | REVISED - | | SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____ | | | CONTRACT NO. 66E22 | | | | |
| Default | PLOT DATE = 3/23/2015 | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | |



Reflectors are not to be placed on Terminal End Sections. (min. 3 reflectors regardless of length). After 400 ft transition, match existing delineator spacing.

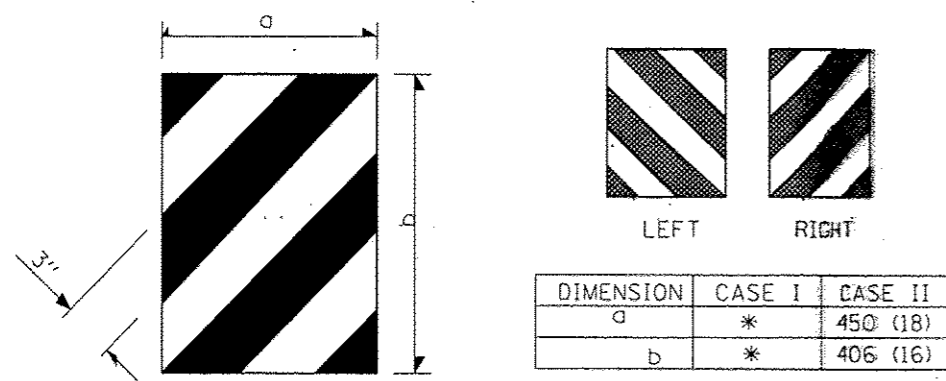
ONE-WAY TRAFFIC



③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the pavement is less than 24' wider than the pavement approaching the bridge.

- ◁ Monodirectional silver
- ◀ Monodirectional amber
- ▶ Terminal Marker - Black/Yellow Left or Right as appropriate

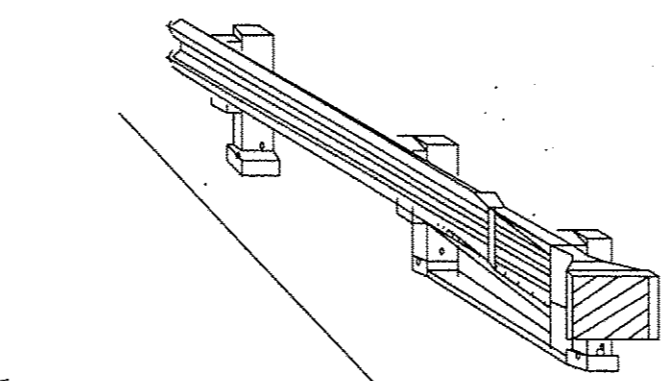
TWO-WAY TRAFFIC



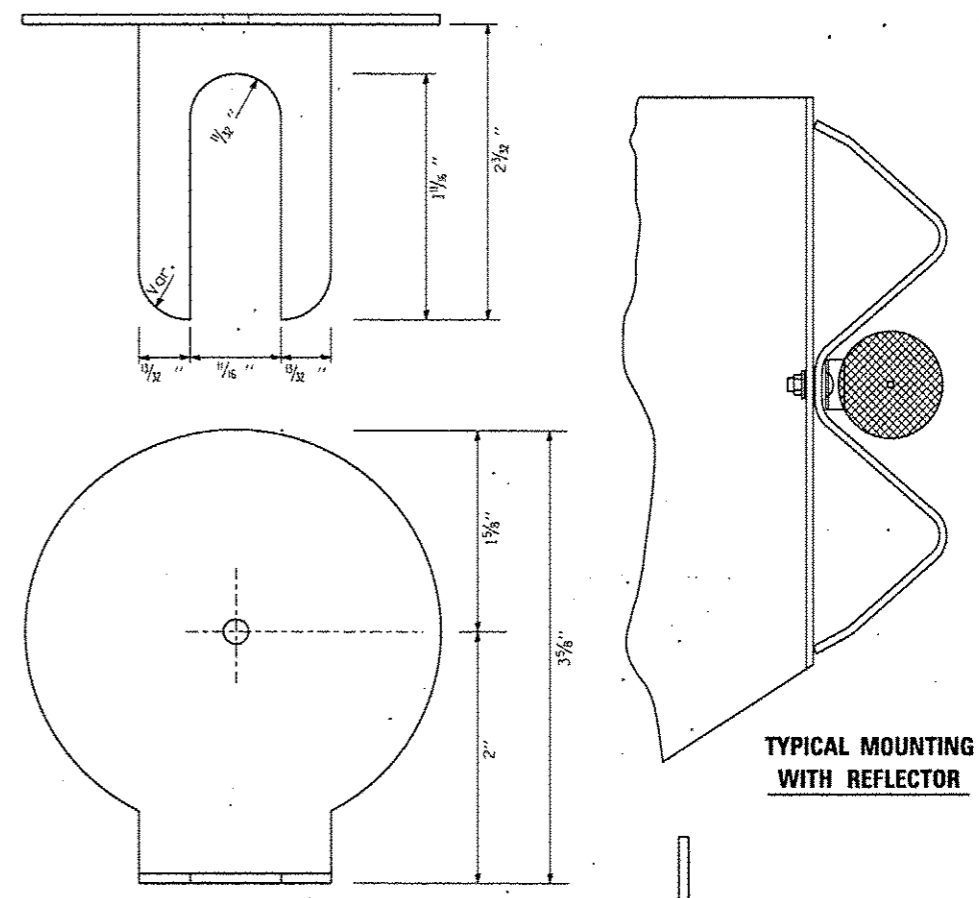
* The width and height (a, b) of the terminal marker shall be within approximately 25 mm (1 inch) of the outer edge of the terminal end, with a minimum reflective area of 0.18 m² (288 sq. in.)

TERMINAL MARKER DETAILS

Color: Black / Yellow reflectarized

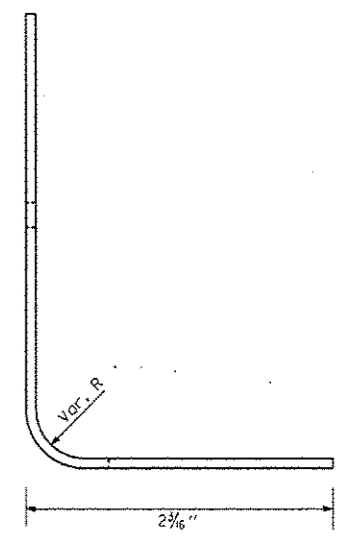


REFLECTOR AND TERMINAL MARKER PLACEMENT



REFLECTOR MARKER TYPE A

- NOTES:**
- BRACKET IS TO BE FABRICATED FROM 12 GA. (MIN) STEEL GALVANIZED IN ACCORDANCE WITH AASHTO M III.
 - MIN. 3 REFLECTORS PER SIDE.
 - BRACKET "FOOT" SHALL BE PLACED BETWEEN THE BOLT HEAD AND THE PLATE WASHER (IF PRESENT).
 - ON THRIE BEAM RAIL, THE BRACKETS SHALL BE ATTACHED TO THE UPPER SPLICE BOLTS.
 - USE CRYSTAL COLOR, BI-DIRECTIONAL REFLECTORS USE AMBER (LEFT) AND CRYSTAL (RIGHT), MONODIRECTIONAL REFLECTORS ON INTERSTATES
 - ALL DIMENSIONS SHOWN ARE MINIMUM



REFLECTOR DETAIL

| | | | |
|--|----------------------|------------|-----------|
| FILE NAME * | USER NAME * plotachr | DESIGNED - | REVISED - |
| c:\pwwork\pwwork\plotachr\q8426210\0318E22-sht-details.dgn | | DRAWN - | REVISED - |
| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |
| | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016

| | | | | |
|-----------|---------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| V&B. | | | 43 | 7 |

CONTRACT NO. 66DE22
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT

| TRINITY CABLE TENSIONS | | |
|------------------------|-----------------------------|------------------------|
| TEMPERATURE | PRE-STRETCHED CABLE TENSION | STANDARD CABLE TENSION |
| °F | LBS | LBS |
| -15 | 7500 | 8800 |
| -10 | 7300 | 8500 |
| -5 | 7100 | 8400 |
| 0 | 7000 | 8200 |
| 5 | 6800 | 8000 |
| 10 | 6600 | 7800 |
| 15 | 6500 | 7600 |
| 20 | 6300 | 7400 |
| 25 | 6100 | 7200 |
| 30 | 6000 | 7000 |
| 35 | 5800 | 6800 |
| 40 | 5600 | 6600 |
| 45 | 5500 | 6400 |
| 50 | 5300 | 6200 |
| 55 | 5100 | 6000 |
| 60 | 5000 | 5800 |
| 65 | 4800 | 5600 |
| 70 | 4600 | 5400 |
| 75 | 4500 | 5200 |
| 80 | 4300 | 5000 |
| 85 | 4100 | 4800 |
| 90 | 4000 | 4600 |
| 95 | 3800 | 4400 |
| 100 | 3600 | 4200 |
| 105 | 3500 | 4000 |
| 110 | 3300 | 3800 |

TOLERANCE: -200 TO +800 POUNDS

| NUCOR CABLE TENSION | | |
|---------------------|-----------------|------------------|
| CABLE TEMPERATURE | INITIAL TENSION | EXPECTED TENSION |
| °F | W/15% | |
| -30 | 13706 | 11918 |
| -20 | 12979 | 11286 |
| -10 | 12252 | 10654 |
| 0 | 11525 | 10022 |
| 10 | 10800 | 9391 |
| 20 | 10073 | 8759 |
| 30 | 9346 | 8127 |
| 40 | 8619 | 7495 |
| 50 | 7894 | 6864 |
| 60 | 7167 | 6232 |
| 70 | 6440 | 5600 |
| 80 | 6077 | 5284 |
| 90 | 5713 | 4968 |
| 100 | 5350 | 4652 |
| 110 | 4986 | 4336 |
| 120 | 4624 | 4021 |

TENSION CHECK REQUIREMENTS

CHECKING AND CORRECTING THE TENSION IN EACH CABLE SHALL BE PERFORMED EACH TIME A CABLE IS SPICED AND HTC SYSTEM MAINTENANCE IS SPECIFIED. THE RECOMMENDED TENSIONS FOR EACH SYSTEM ARE SHOWN IN THE CHARTS. THE RESULT OF EACH CHECK SHALL BE RECORDED ON A COPY OF THE TENSION LOG SHEET SHOWN ON THIS SHEET. THE COMPLETED LOG SHALL BE SUBMITTED TO THE SAFETY AND CLAIMS MANAGER.

| GIBRALTAR CABLE TENSIONS | |
|--------------------------|---------------|
| CABLE TEMPERATURE | CABLE TENSION |
| °F | LBS |
| -30 | |
| -20 | |
| -10 | 8000 |
| 0 | 7600 |
| 10 | 7200 |
| 20 | 6800 |
| 30 | 6400 |
| 40 | 6000 |
| 50 | 5600 |
| 60 | 5200 |
| 70 | 4800 |
| 80 | 4400 |
| 90 | 4000 |
| 100 | 3600 |
| 110 | 3200 |

| BRIFEN CABLE TENSIONS | |
|-----------------------|---------|
| ROPE TEMPERATURE | TENSION |
| °F | LBS |
| 0 | 7300 |
| 8 | 7000 |
| 16 | 6700 |
| 24 | 6400 |
| 32 | 6100 |
| 40 | 5800 |
| 48 | 5500 |
| 56 | 5200 |
| 64 | 4800 |
| 72 | 4500 |
| 76 | 4400 |
| 80 | 4200 |
| 88 | 3900 |
| 96 | 3600 |
| 100 | 3500 |
| 104 | 3300 |
| 108 | 3200 |
| 112 | 3000 |



Illinois Department of Transportation

**TENSION LOG SHEET
FOR
High Tension Cable Barrier**

| System | |
|----------------|--|
| Brifen | |
| USHTCS (Nucor) | |
| Gibraltar | |
| Trinity (CASS) | |

Date / Time: _____

Contract / Work Order No. _____

County: _____

Route: _____

Milepost/ GPS: _____

Ambient Temp: _____

Rope Temp: _____

| 3 or 4 Cable System | Location 1 Actual Load kN/LB | Location 2 Actual Load kN/LB | Location 3 Actual Load kN/LB | Average Load (L1+L2+L3/3) kN/LB | Design Load kN/LB (see charts) |
|-------------------------|------------------------------|------------------------------|------------------------------|---------------------------------|--------------------------------|
| Top Cable | | | | | |
| Cable 2 | | | | | |
| Cable 3 (If Applicable) | | | | | |
| Bottom Cable | | | | | |

Note: Readings should be taken at 3 separate places along each cable, moving the tension meter at least 4" between readings. The average load is compared to design load for tolerance.

Number of splices made to the cable: _____

Were tensioning adjustments made to the cable: _____

Is 1" (minimum) of thread exposed in all turnbuckle windows: _____

Splice Type & Location (s): _____

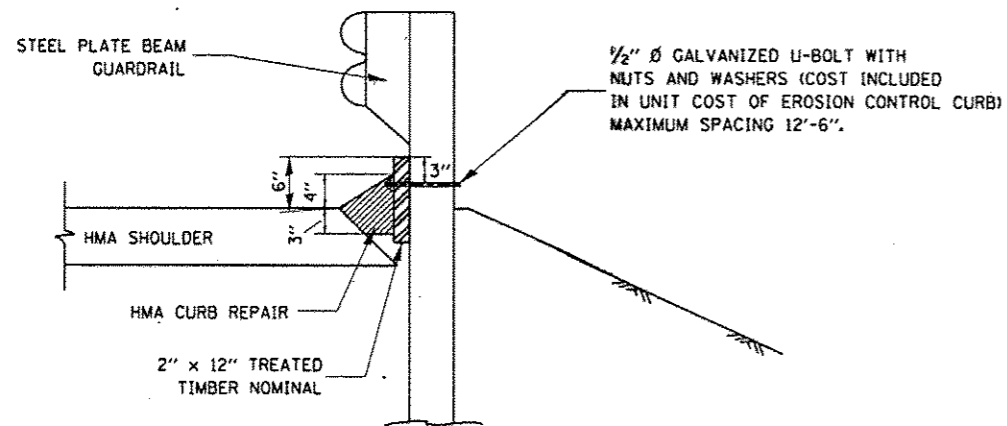
Testing Equipment Used: _____

Printed Name & Signature of Tester: _____

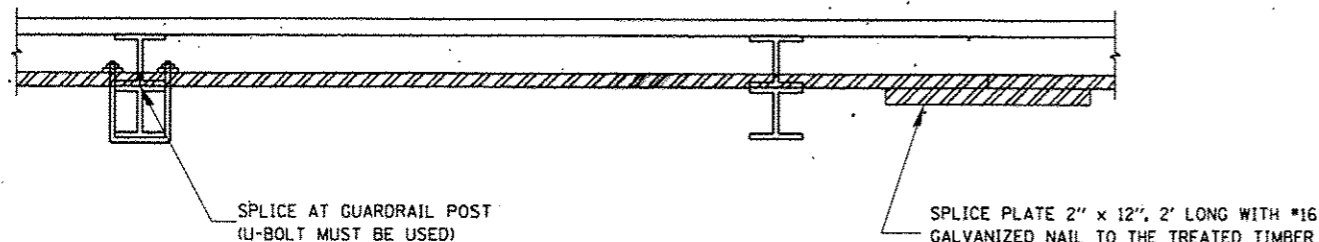
Other Notes: _____

IDOT Inspector Initials (if Present): _____

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016



SIDE VIEW



TOP VIEW

NOTE:
 THE TREATED TIMBER SHALL BUTT TOGETHER AT THE GUARDRAIL POST OR SPLICED AS SHOWN ON THE DETAIL.

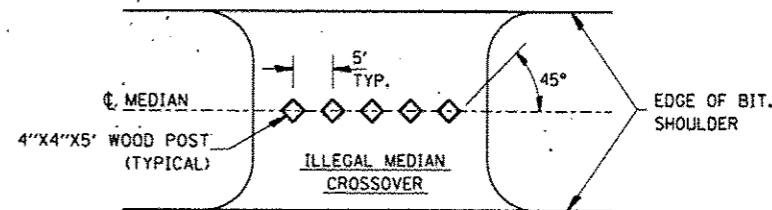
THE TREATED TIMBER SHALL BE TREATED IN ACCORDANCE TO ARTICLE 1007.12 AND ALL PRESERVATIVES SPECIFIED IN THE ARTICLE WILL BE ALLOWED.

THE PRICE FOR EROSION CONTROL CURB SHALL INCLUDE THE U-BOLTS ATTACHING THE TREATED TIMBER TO THE GUARDRAIL POSTS, TREATED TIMBER, AND THE NECESSARY GRADING TO COMPLETE THIS WORK.

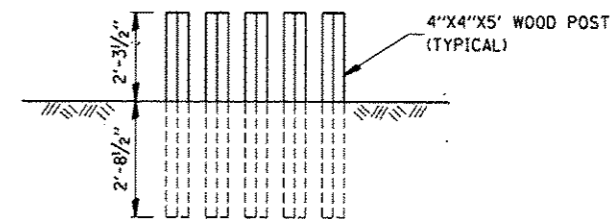
HMA CURB REPAIR SHALL BE MEASURED AND PAID FOR AT CONTRACT UNIT PRICE PER TON.

HMA CURB REPAIR SHALL BE IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.

TIMBER CURB & HMA CURB REPAIR



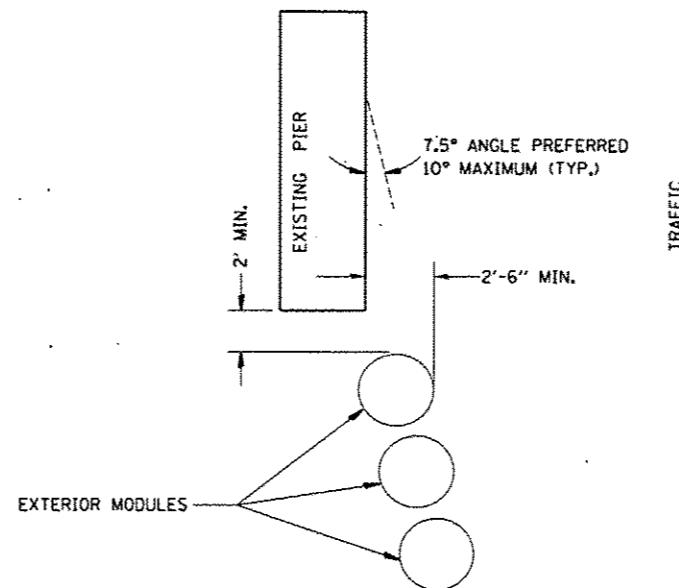
PLAN



ELEVATION

WOOD POST DETAIL

IMPACT ATTENUATOR LAYOUT PLAN



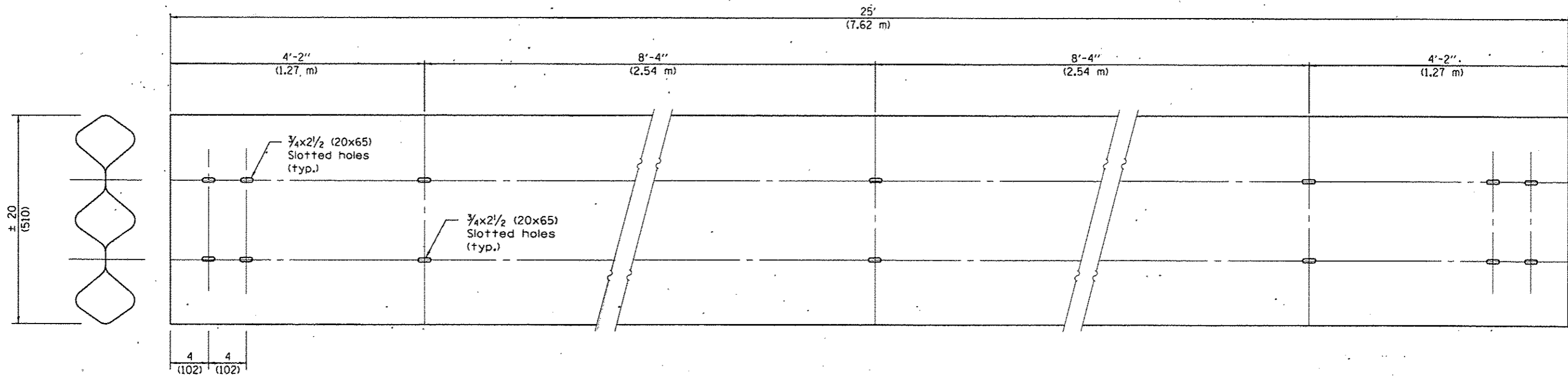
TYPICAL EXTERIOR MODULE LAYOUT

NOTES:

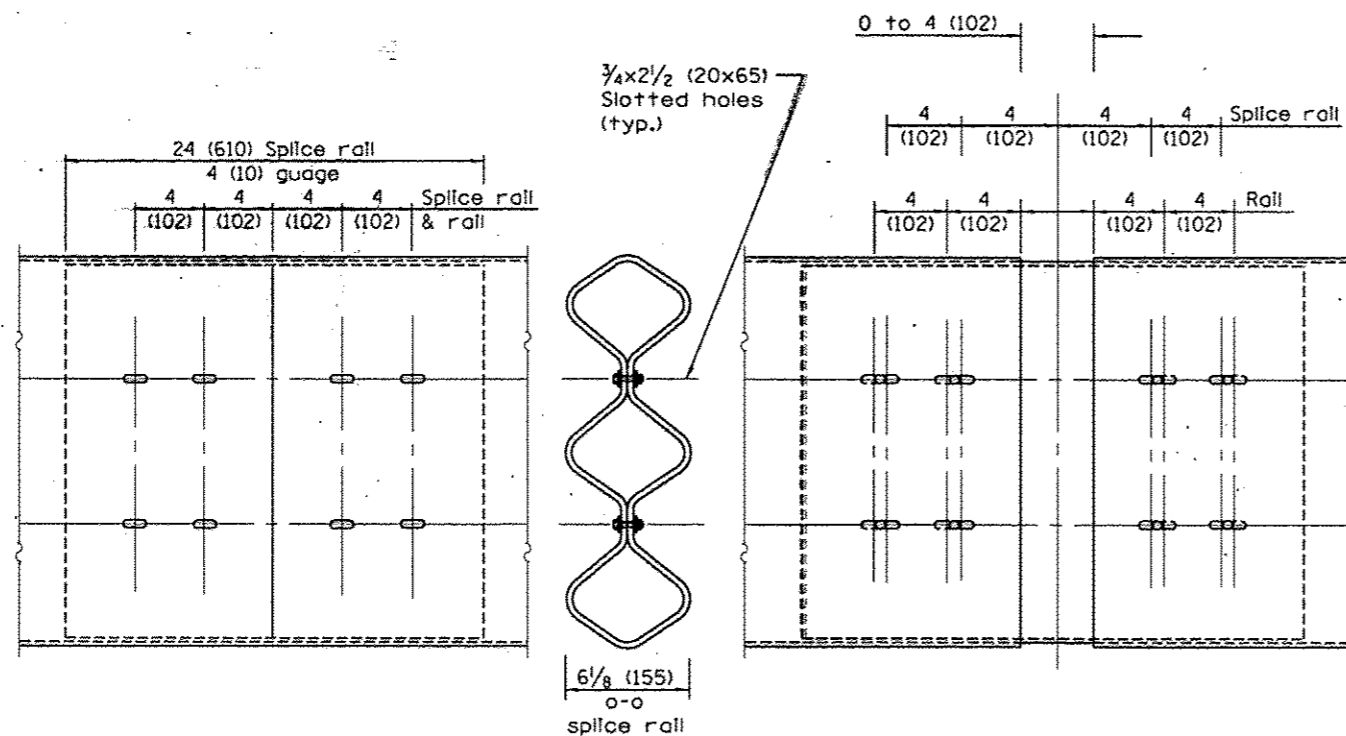
1. THE PAY ITEM "REPLACE IMPACT ATTENUATORS, (NON-REDIRECTIVE), TEST LEVEL 3" HAS BEEN INCLUDED TO REPLACE INDIVIDUAL DAMAGED SAND MODULES.
2. REPLACEMENT MODULES SHALL MATCH THE KIND OF MODULES THAT ARE REMAINING.
3. IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH SECTION 643 FOR IMPACT ATTENUATORS.
4. THIS SHEET SHOWS THE LAYOUT INFORMATION FOR REPLACEMENT OF SAND MODULES (IMPACT ATTENUATORS) AT A TYPICAL INTERSTATE LOCATION.
5. ADJACENT SAND MODULE IMPACT ATTENUATORS THAT ARE NOT DAMAGED, BUT HAVE BEEN SHIFTED LATERALLY FROM THEIR ORIGINAL POSITION SHALL BE REALIGNED OR MOVED BACK TO THEIR ORIGINAL POSITION, AS DIRECTED BY THE ENGINEER. REALIGNMENT OR MOVING OF ADJACENT UNDAMAGED MODULES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF REPLACEMENT. THE WORK TO REALIGN OR SHIFT UP TO 2 MODULES SHALL BE INCLUDED WITH EACH REPLACED SAND MODULE IMPACT ATTENUATOR.

DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016

| | | | | | | | | | | | |
|--|-----------|----------|---------|---|--|-----------|---------------------|--------------|---------------------------|-----------|--|
| FILE NAME | USER NAME | DESIGNED | REVISED | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TIMBER CURB & BITUMINOUS CURB REPAIR & GUARD POST DETAIL & IMPACT ATTENUATOR PLAN | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| c:\pwork\pwork\plotsch\10426218\036622-shr-details.dgn | plotsch | DRAWN | REVISED | | | Y&B | | Y&B | 43 | 9 | |
| PLOT SCALE = 3/8" = 1'-0" | | CHECKED | REVISED | | | SCALE | SHEET NO. OF SHEETS | STA. TO STA. | CONTRACT NO. 66E22 | | |
| PLOT DATE = 3/2/2015 | | DATE | REVISED | | | | | | ILLINOIS FED. AID PROJECT | | |

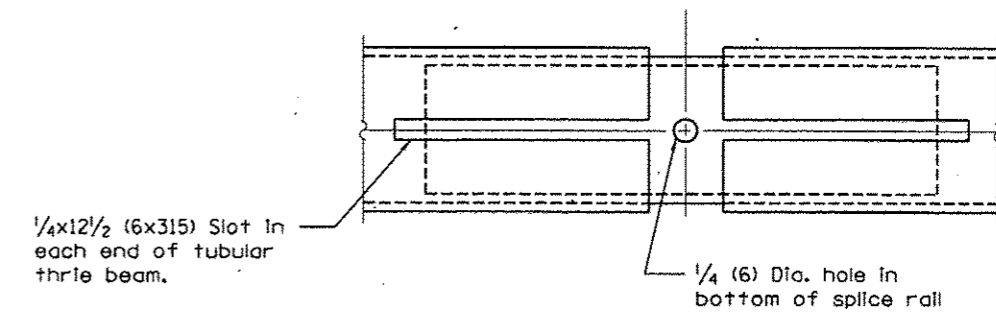


TUBULAR THRIE BEAM FOR INTERNAL SPLICE JOINT



INTERNAL SPLICE JOINT

INTERNAL EXPANSION SPLICE JOINT



BOTTOM VIEW OF INTERNAL EXPANSION SPLICE JOINT

GENERAL NOTES

Plate Washers B are to be placed under both heads and nuts of splicing bolts for internal splice and internal expansion splice joint.

Plate Washers C are to be placed under both heads and nuts of splicing bolts for lap expansion and internal lap splice joint.

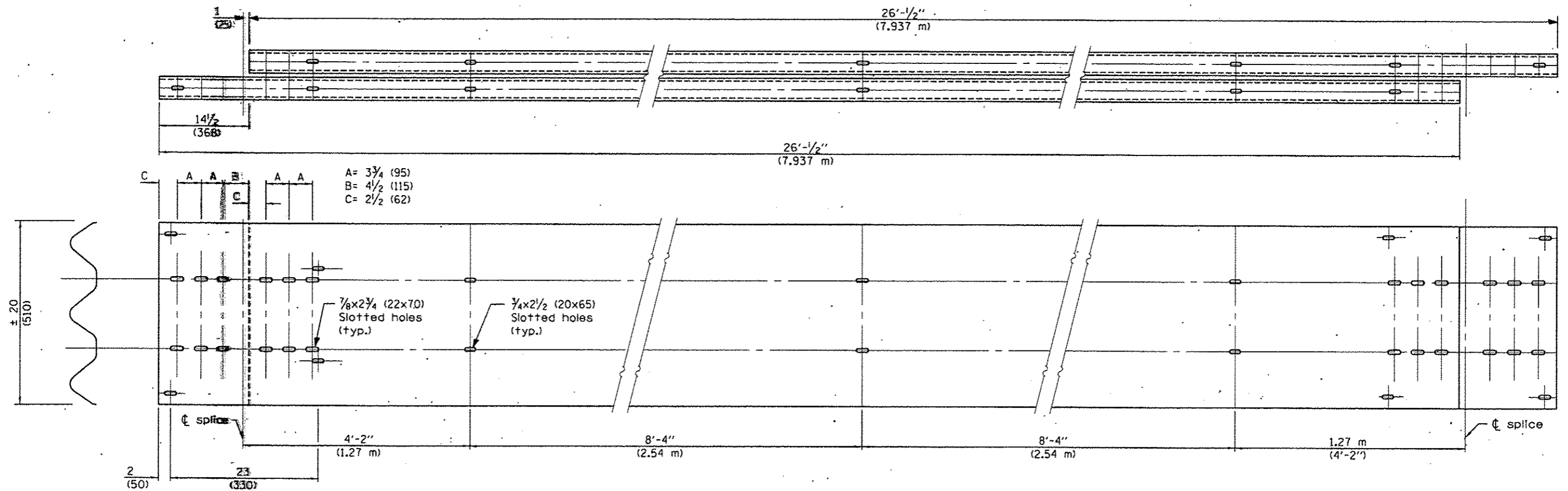
See Standard 630001 for details of guardrail not shown.

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

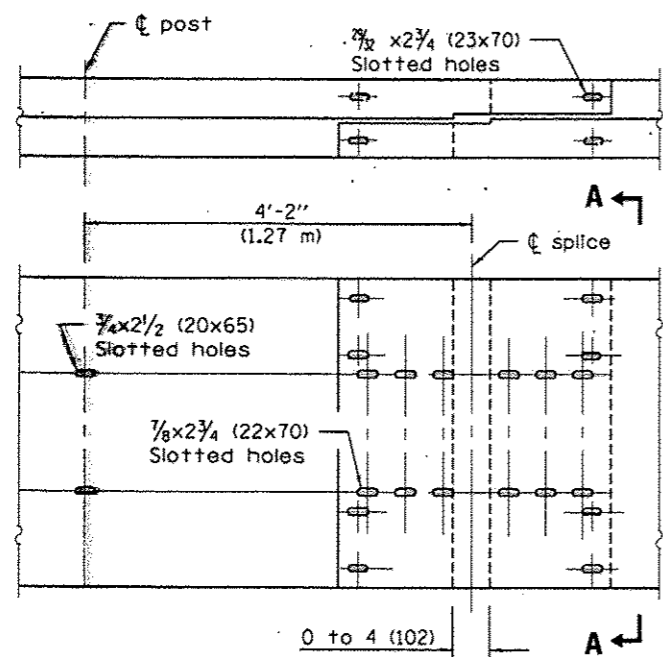
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|---------------------------------------|--------------------------------|------------|-----------|---|---|---------------------|---------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = gletschr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pwwork\pvidot\gletschr\d0426218\03 | RE22-shi-details.dgn | DRAWN - | REVISED - | | SCALE: _____ | SHEET 1 OF 3 SHEETS | STA. _____ | VAR. | VAR. | 43 | 19 |
| Default | PLOT SCALE = 5000.0000 1/4 in. | CHECKED - | REVISED - | | | | TO STA. _____ | | | | |
| | PLOT DATE = 3/27/2015 | DATE | REVISED | | | | | | | | |

DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016

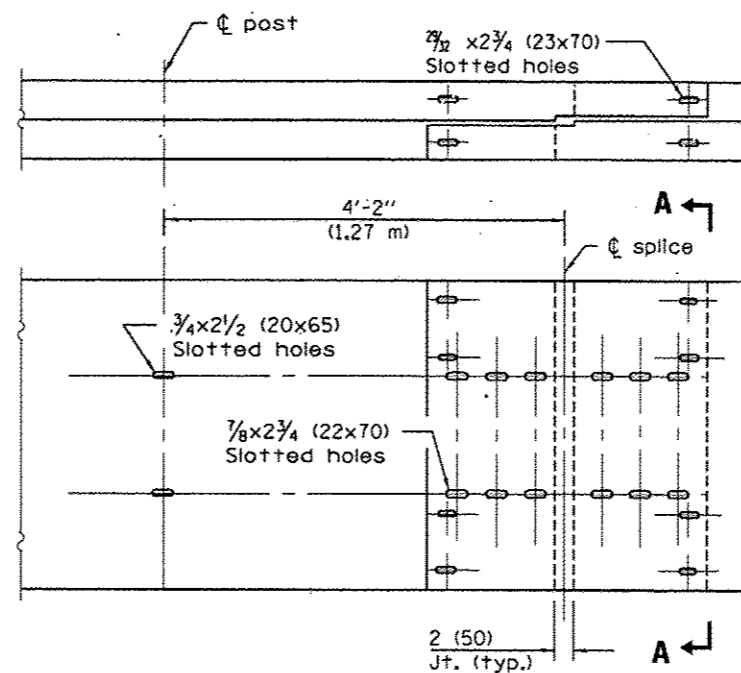
ILLINOIS FED. AID PROJECT



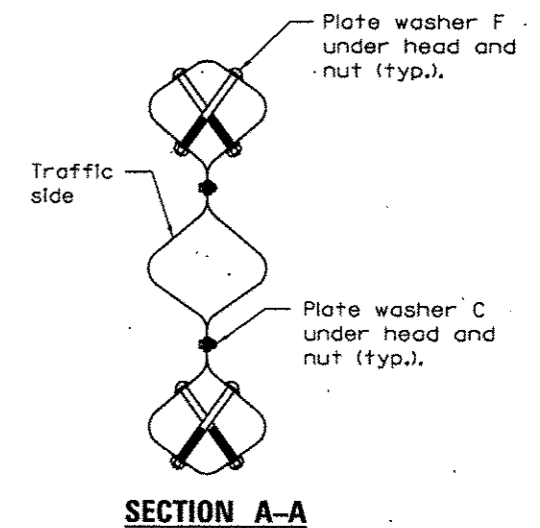
TUBULAR THRIE BEAM FOR LAP SPLICE JOINT



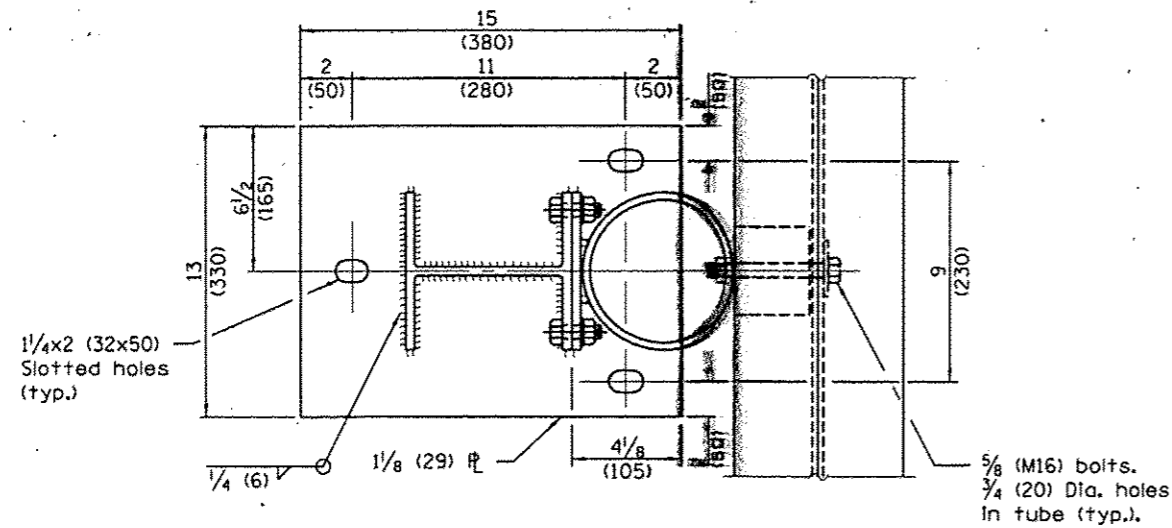
LAP EXPANSION SPLICE JOINT



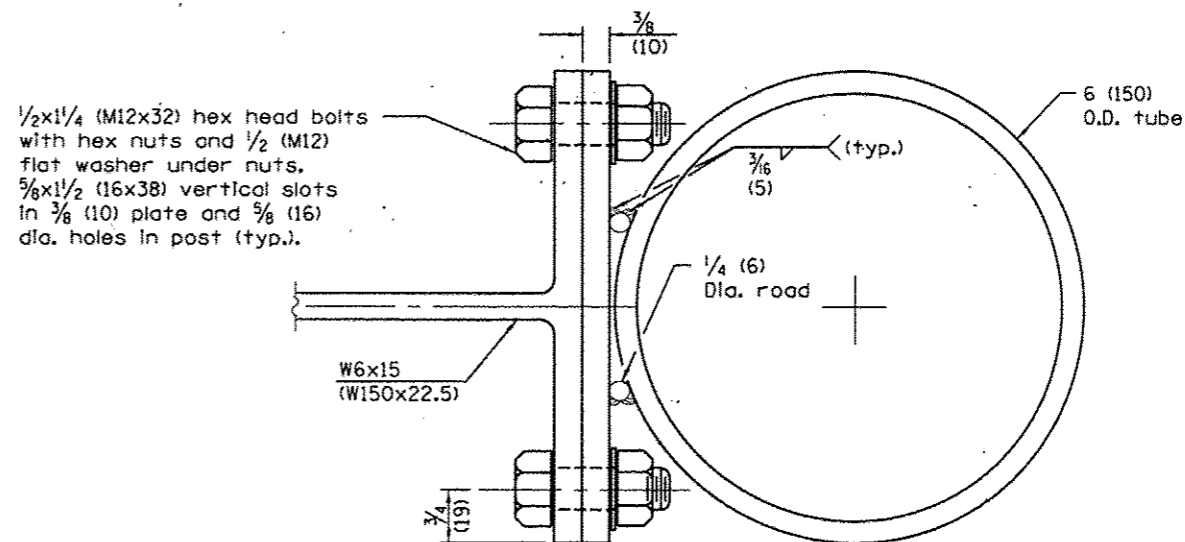
LAP SPLICE JOINT



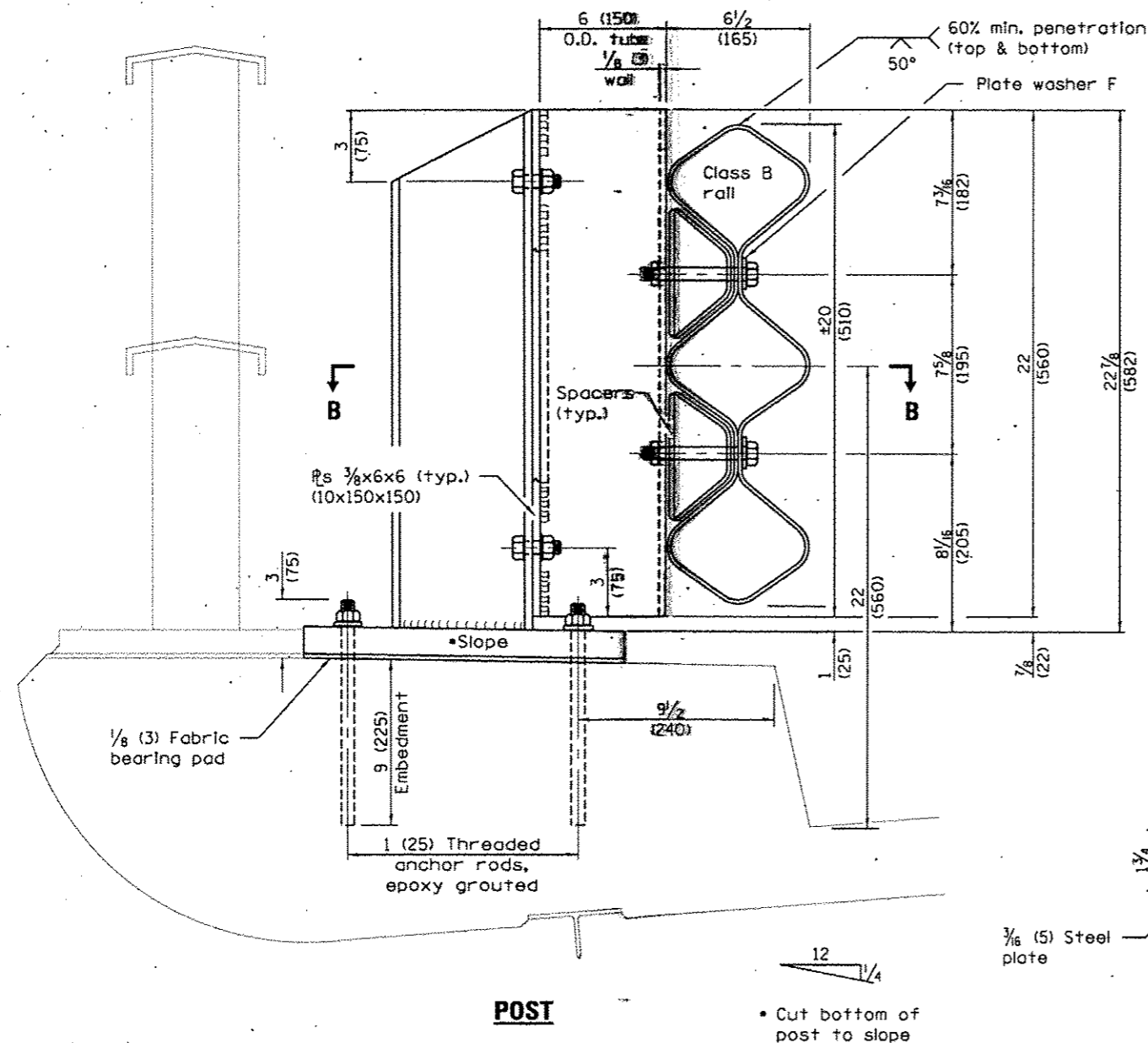
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|--|---------------------------|------------|-----------|---|---|---------------------|------------|---------------|--------|--------------|-----------|
| FILE NAME * | USER NAME * pletachr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default | 66E22-sht-details.dgn | DRAWN - | REVISED - | | SCALE: _____ | SHEET 2 OF 3 SHEETS | STA. _____ | TO STA. _____ | VAR. | 43 | 11 |
| | PLOT SCALE = 5/8" = 1'-0" | CHECKED - | REVISED - | | | | | | | | |
| | PLOT DATE = 3/27/2013 | DATE - | REVISED - | | | | | | | | |
| * DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016 | | | | | | | | | | | |
| ILLINOIS FED. AID PROJECT | | | | | | | | | | | |



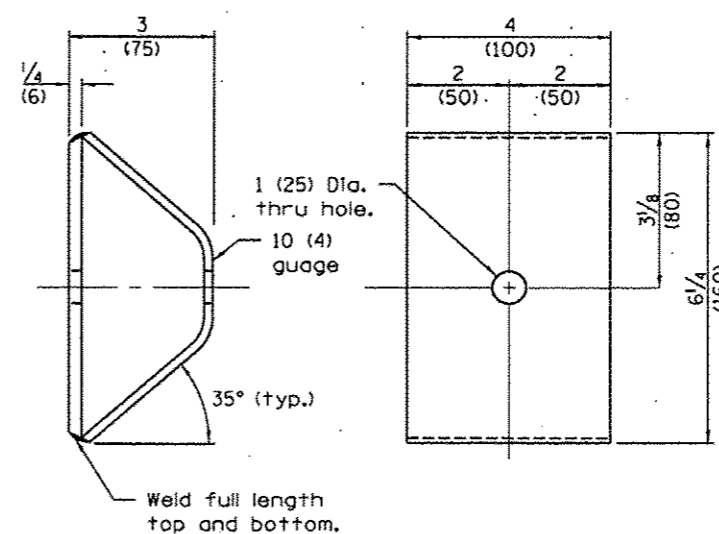
SECTION B-B



TUBE TO POST ATTACHMENT



POST



SPACER

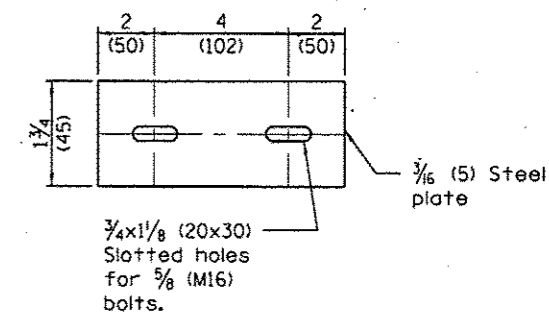


PLATE WASHER B

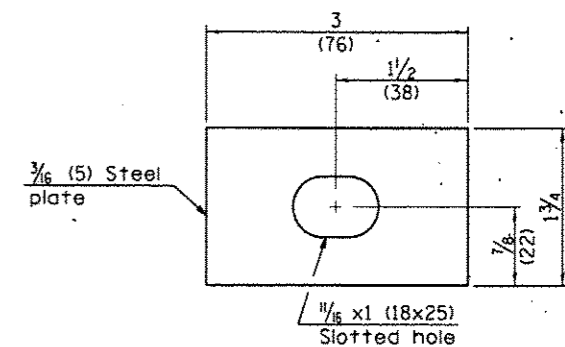


PLATE WASHER F

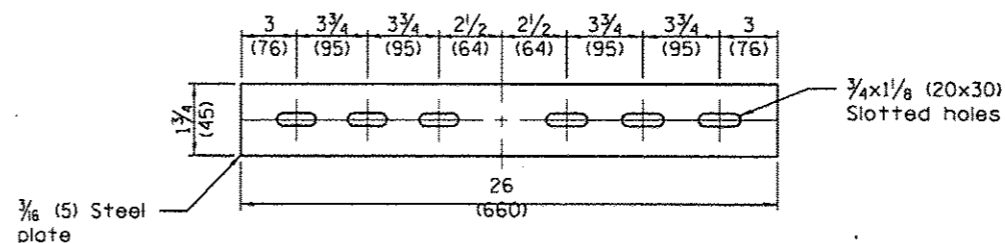


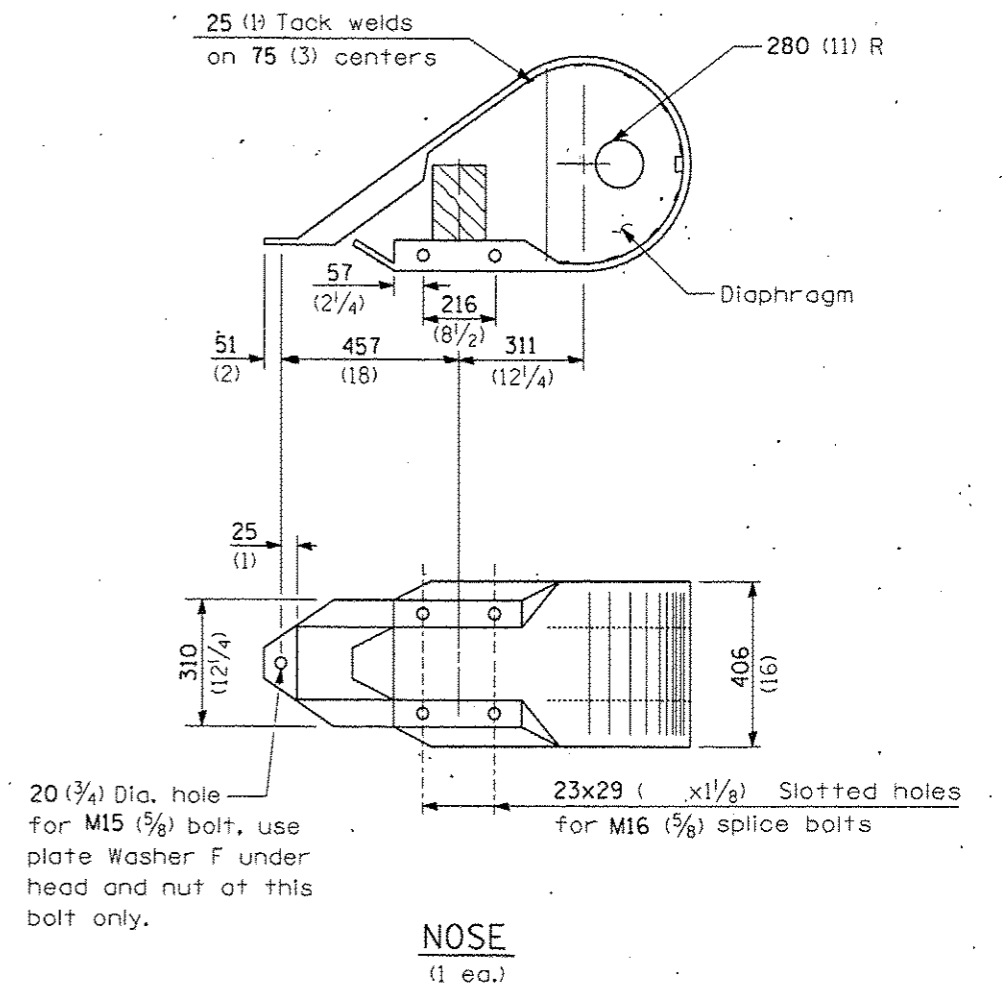
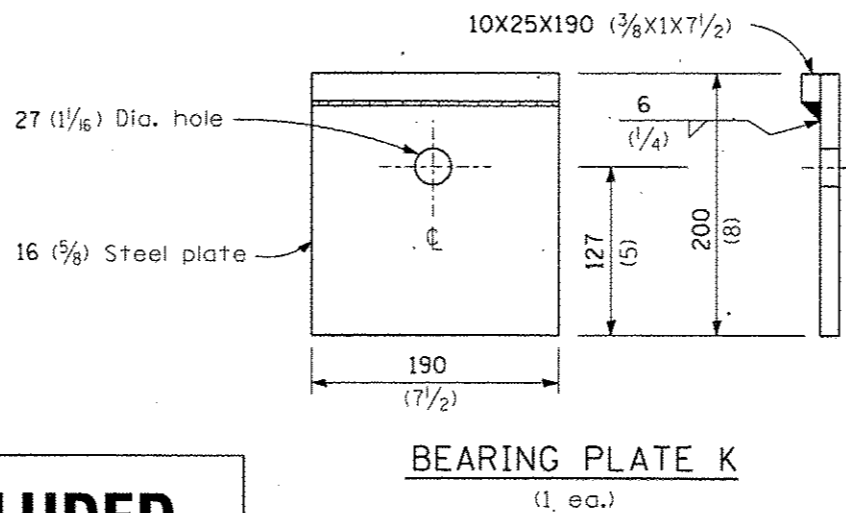
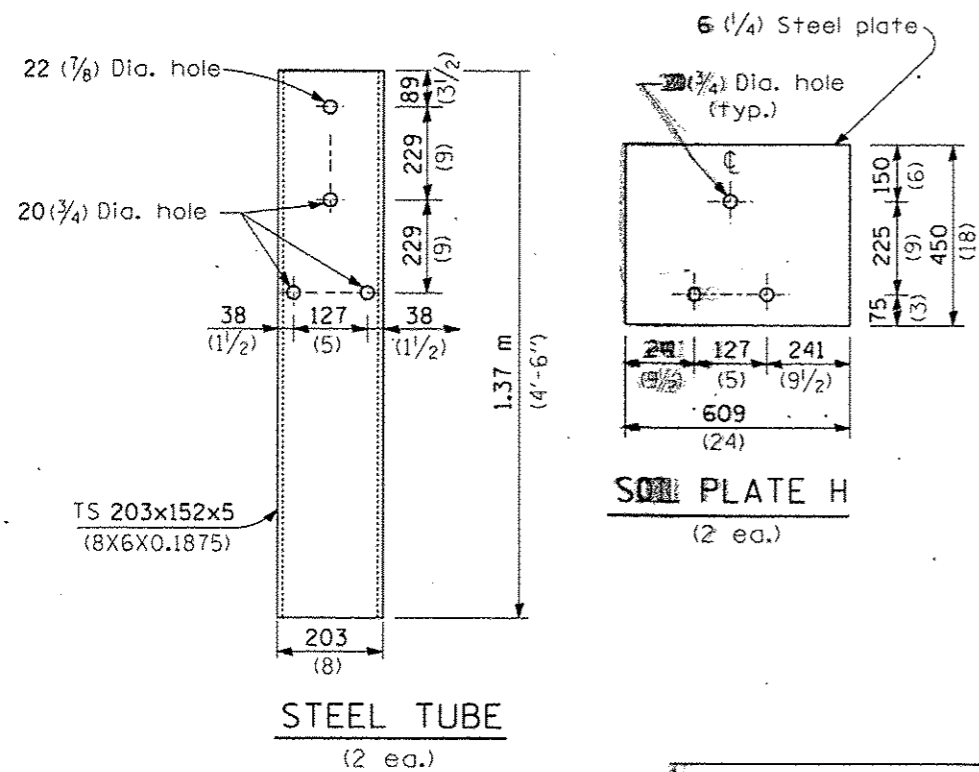
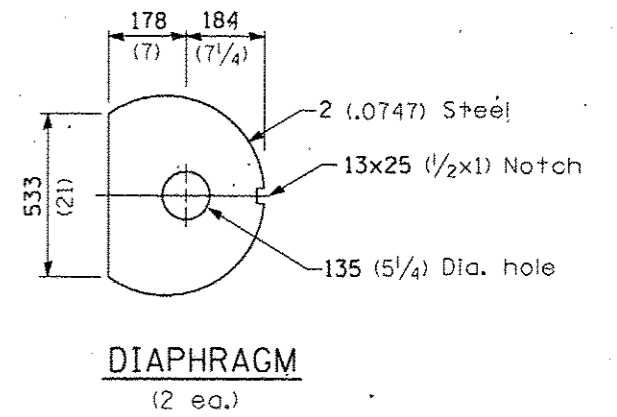
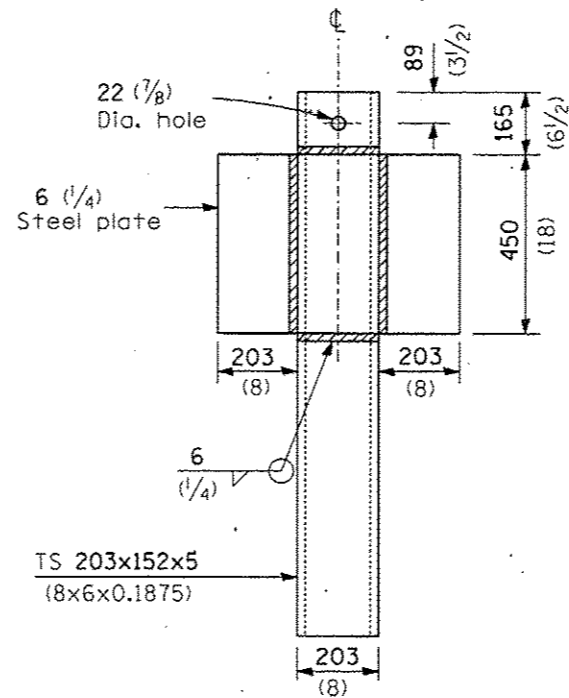
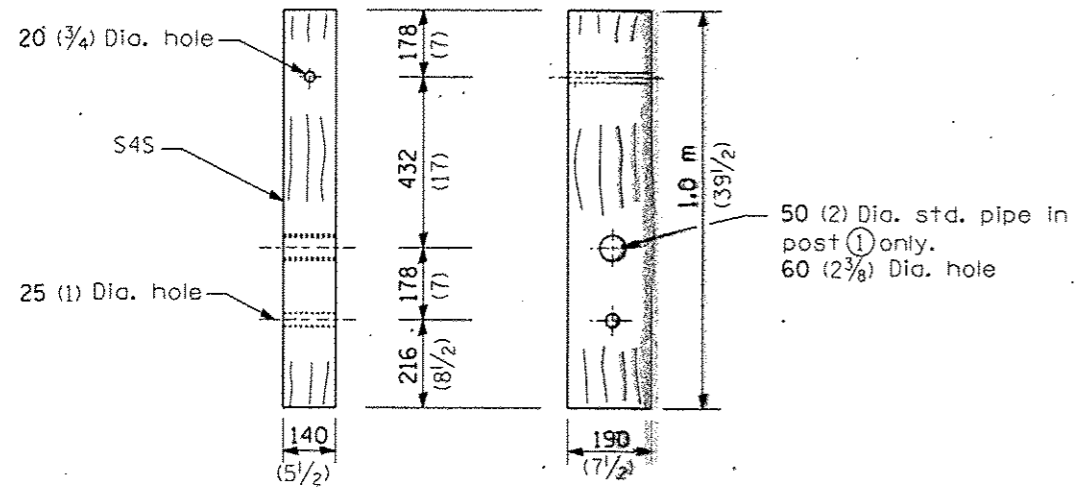
PLATE WASHER C

| | | | |
|---|------------------------------|----------|---------|
| FILE NAME | USER NAME = plstschtr | DESIGNED | REMOVED |
| ca:\pw-work\p\widat\plstschtr\d8426218\030622-ahs-details.dgn | | DRAWN | REMOVED |
| Default | PLOT SCALE = 5000:0000 / in. | CHECKED | REMOVED |
| | PLOT DATE = 3/2/2015 | DATE | REMOVED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TUBULAR THREE BEAM
RETROFIT RAIL FOR BRIDGES
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

| | | | |
|--|---------|--------|--------------------|
| • DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016 | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEET NO. |
| VAR. | | VAR. | 43 12 |
| | | | CONTRACT NO. 66E22 |
| ILLINOIS FED. AID PROJECT | | | |

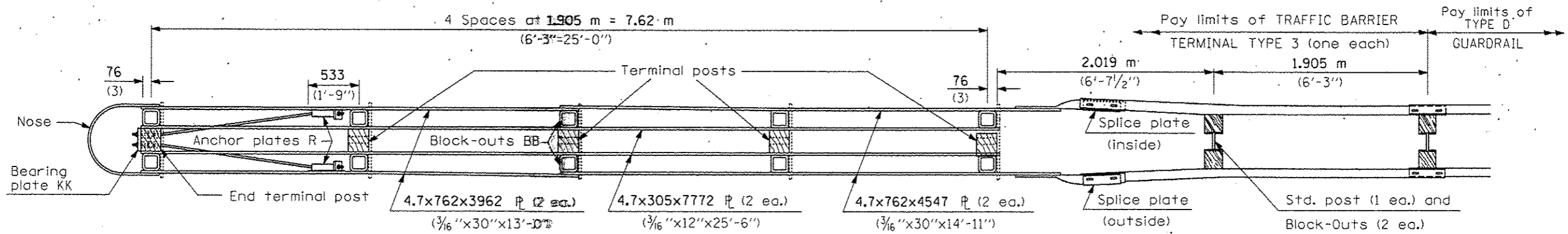


DETAIL INCLUDED FOR REPAIR ONLY

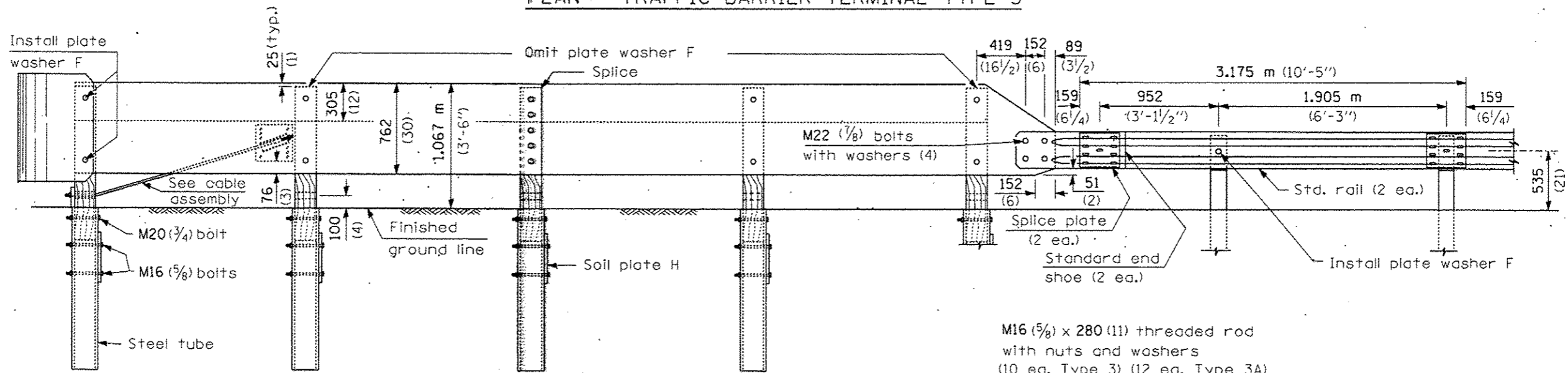
All dimensions are in millimeters (inches) unless otherwise shown.

DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016

| | | | | | | | | | | | |
|---|----------------------|------------|-----------|---|---|---|---------|--------|--------------|-----------|----|
| FILE NAME = | USER NAME = pletschr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC BARRIER TERMINAL TYPE 1 STANDARD B.L.R. 23 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| c:\pwork\pwork\pwork\pletschr\108426210\036622-ahs-detail.dgn | | DRAWN - | REVISED - | | | VAB. | | | VAB. | 43 | 14 |
| PLOT SCALE = 5000.0000 / in. | | CHECKED - | REVISED - | | | CONTRACT NO. 66E22 | | | | | |
| PLOT DATE = 3/2/2015 | | DATE - | REVISED - | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | |



PLAN - TRAFFIC BARRIER TERMINAL TYPE 3



ELEVATION

M16 (5/8) x 280 (11) threaded rod with nuts and washers (10 ea. Type 3) (12 ea. Type 3A)

Plate washer S for bottom hole

GENERAL NOTES

All holes in Posts, Block-Outs and Plates shall be 20 mm (3/4") diameter unless otherwise noted.

See Standard 630001 for details of guardrail elements not shown.

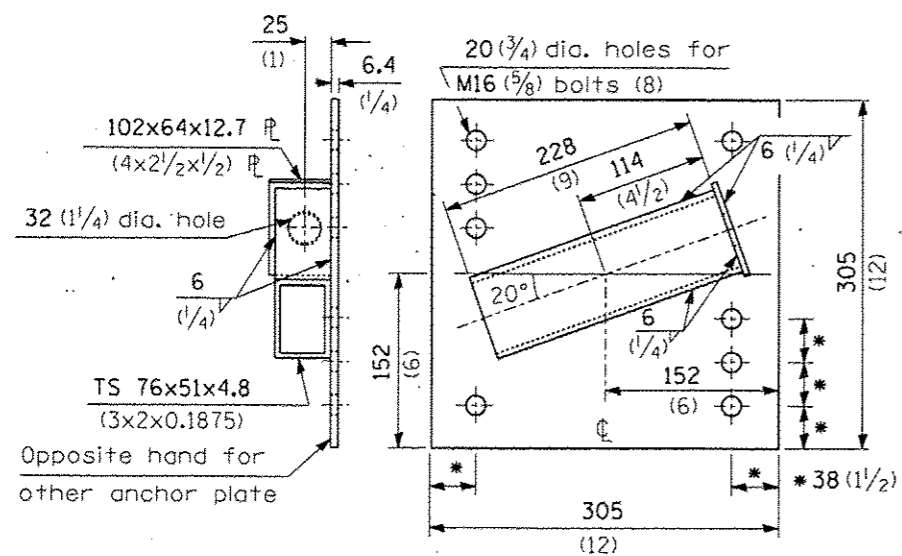
Unless otherwise shown all bolts and nuts shall be Standard Post and Splice Bolts and Nuts (See Standard 630001):

Block-Out AA shall be used at all locations unless otherwise noted.

DETAIL INCLUDED FOR REPAIR ONLY

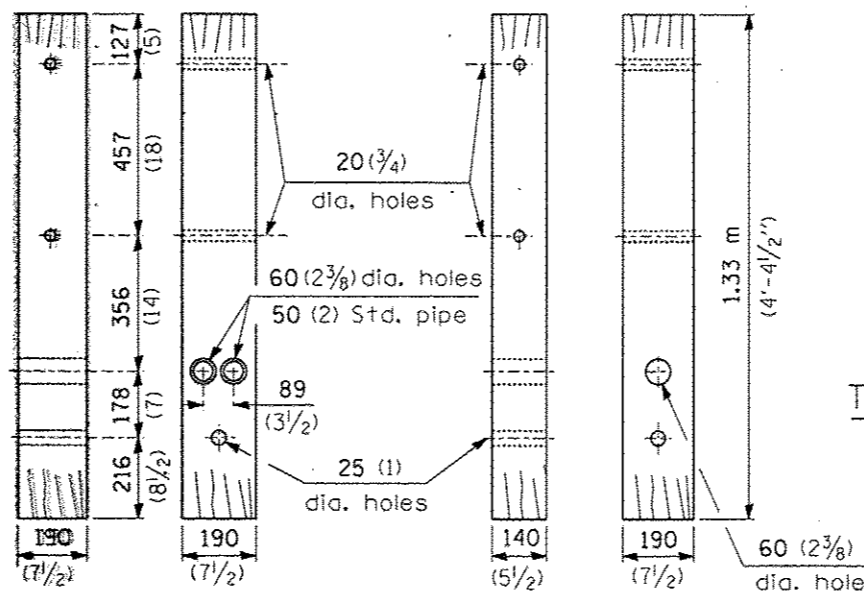
All dimensions are in millimeters (inches) unless otherwise shown.

TYPICAL BLOCK-OUT/POST ATTACHMENT



ANCHOR PLATE R

(1 ea. lt. hd. & 1 ea. rt. hd.)



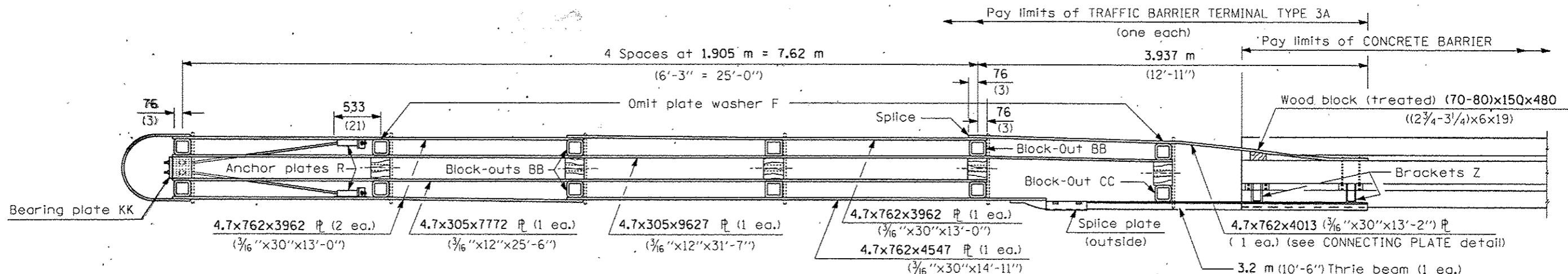
END TERMINAL POST

(1 ea.)

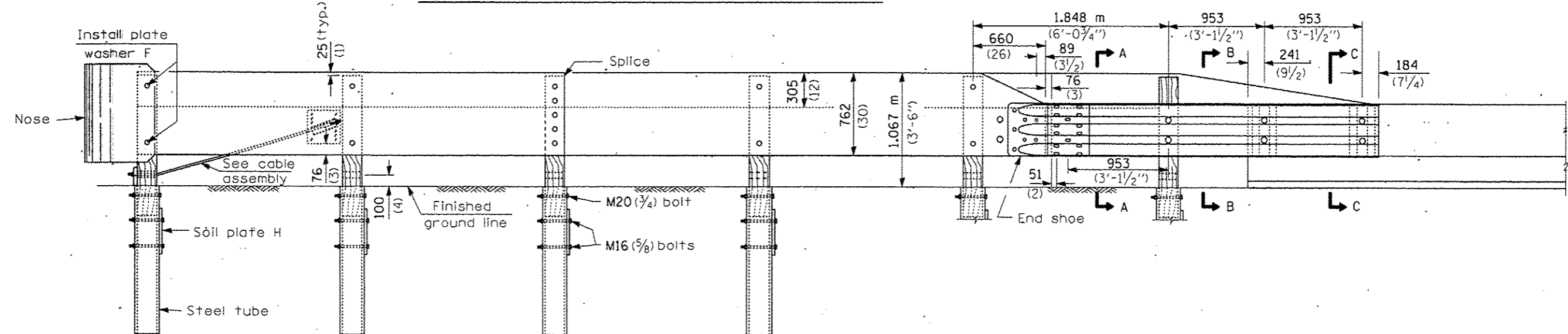
TERMINAL POST

(4 ea. Type 3) (5 ea. Type 3A)

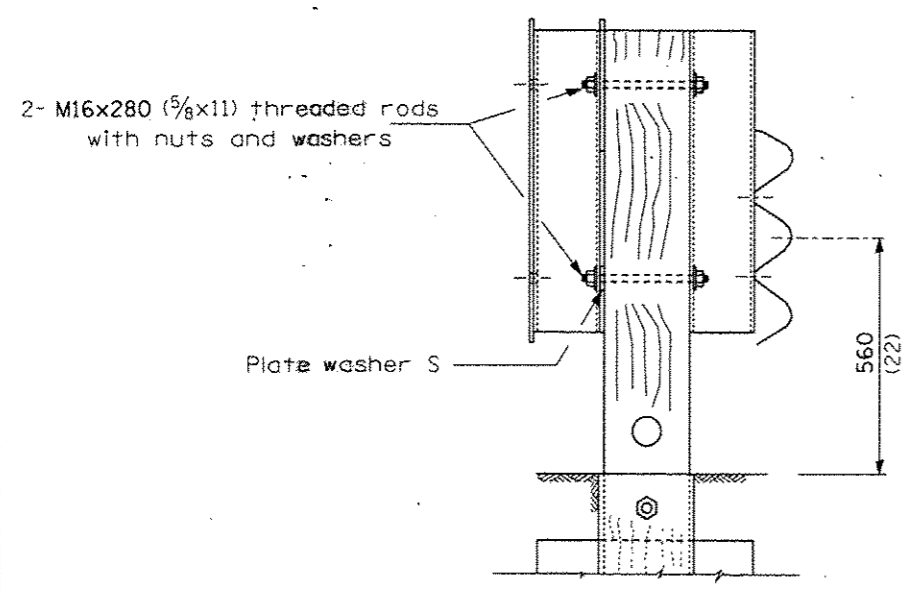
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| FILE NAME: c:\pwork\pwork\plots\at04262103\66E22-sht-details.dgn | USER NAME: plotschr | DESIGNED: _____ | REVISED: _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC BARRIER TERMINAL TYPE 3 & 3A | F.A. RTE. _____ | SECTION _____ | COUNTY _____ | TOTAL SHEET NO. _____ |
| PLOT SCALE: 5000.0000 / in. | CHECKED: _____ | REVISED: _____ | REVISED: _____ | | | Y&B. _____ | Y&B. _____ | 43 | 15 |
| PLOT DATE: 3/2/2015 | DATE: _____ | REVISED: _____ | REVISED: _____ | | | CONTRACT NO. 66E22 | | ILLINOIS FED. AID PROJECT | |
| SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____ | | | | | | FED. ROAD DIST. NO. _____ | | | |



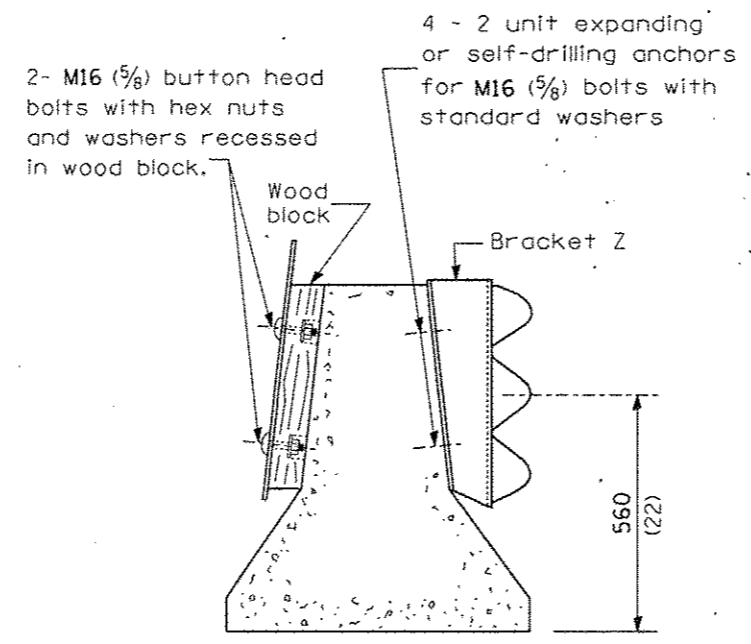
PLAN - TRAFFIC BARRIER TERMINAL TYPE 3A



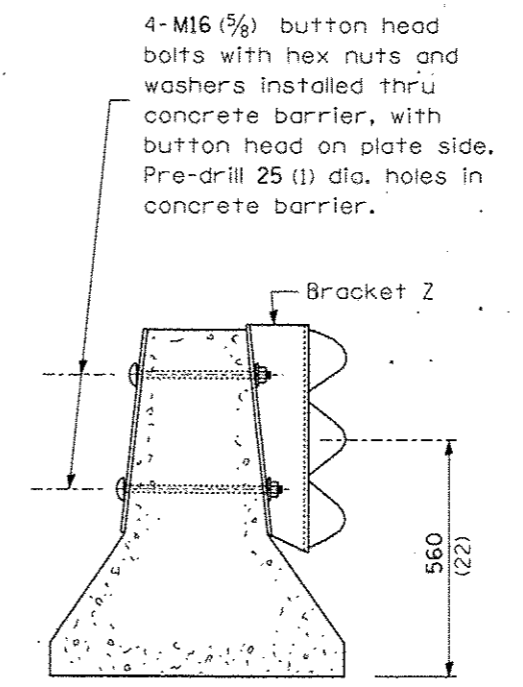
ELEVATION



SECTION A-A



SECTION B-B



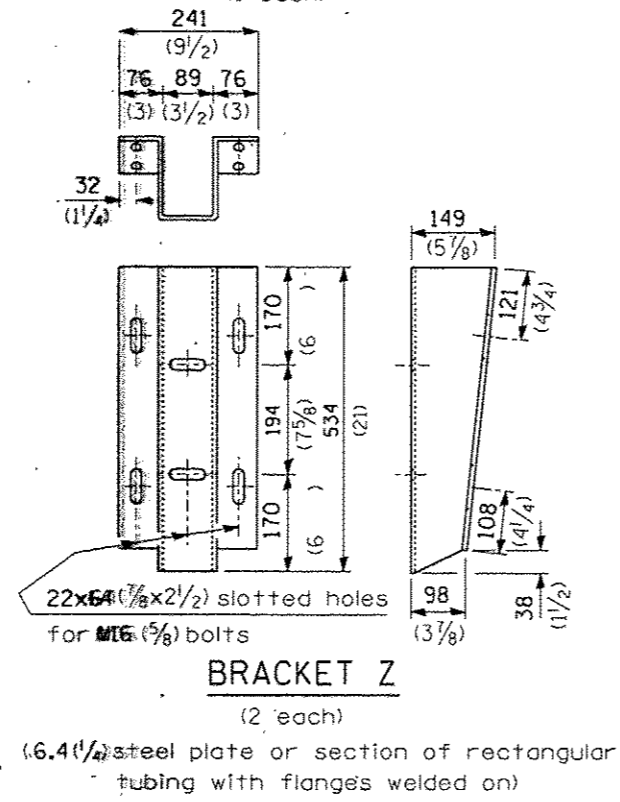
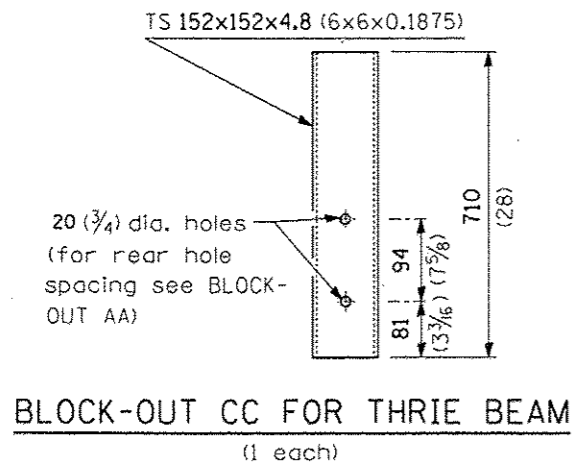
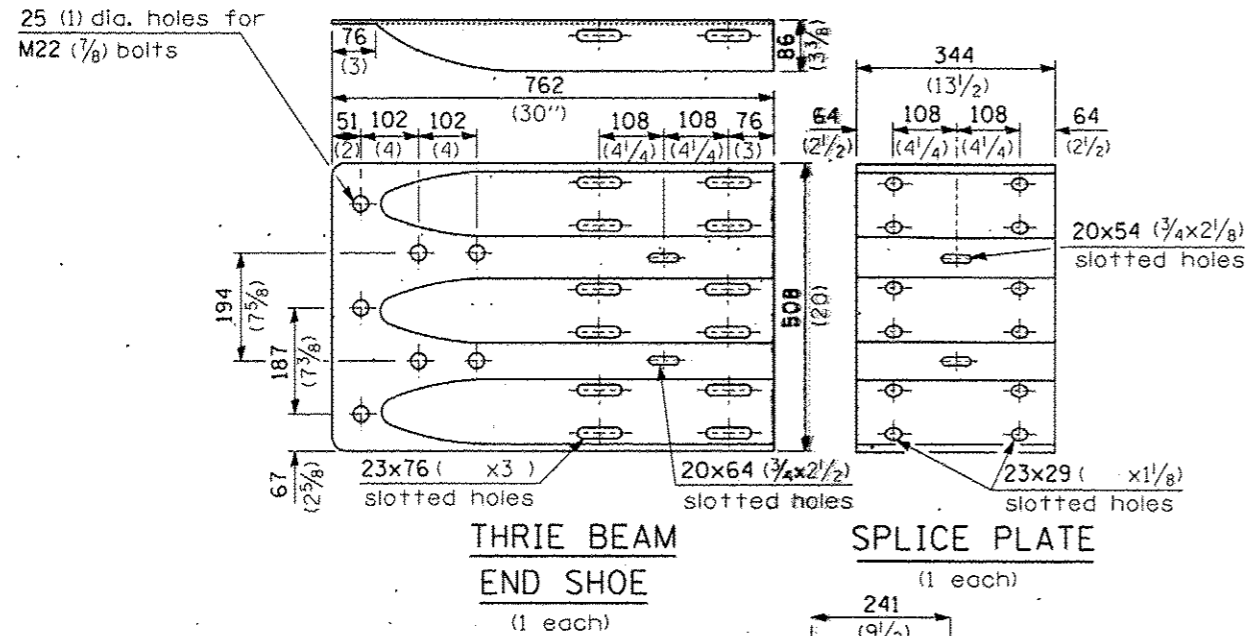
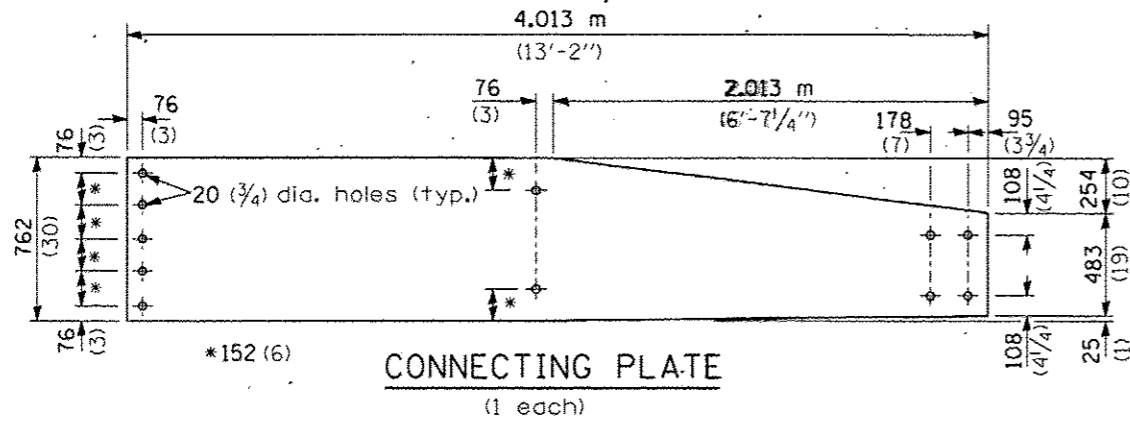
SECTION C-C

DETAIL INCLUDED FOR REPAIR ONLY

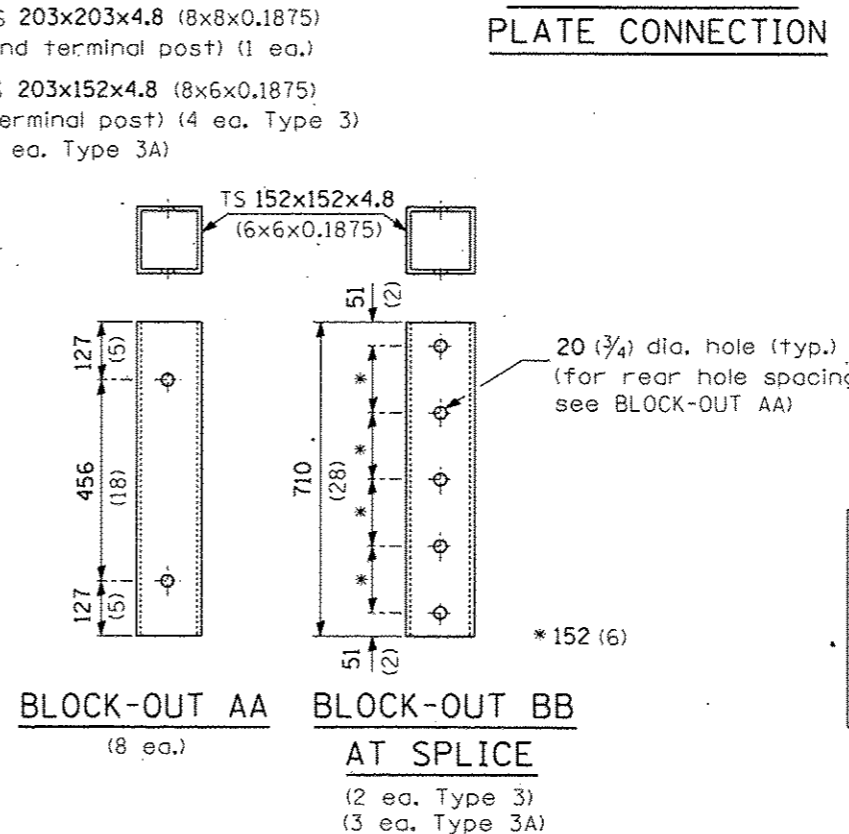
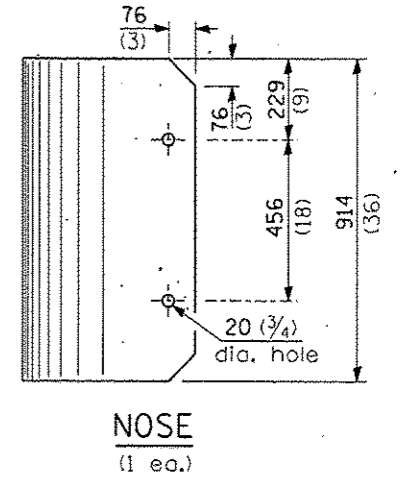
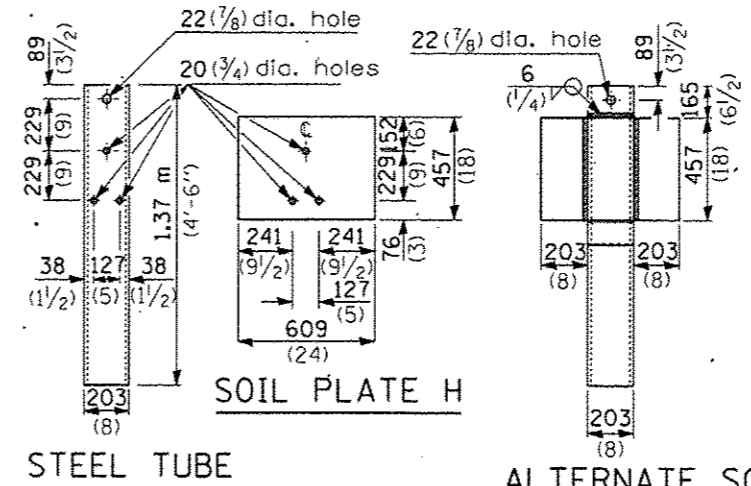
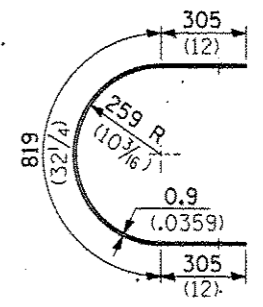
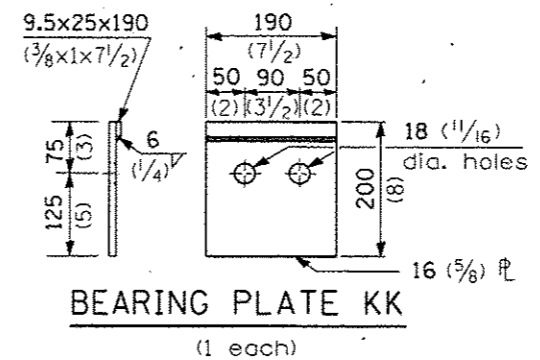
All dimensions are in millimeters (Inches) unless otherwise shown.

| | | | | | | | | | | |
|---|----------------------|----------------------|-----------|---|---|---------------------------|---------|--------|-----------------|----|
| FILE NAME = | USER NAME = pletschr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC BARRIER TERMINAL TYPE 3 & 3A | F.A. RTE. | SECTION | COUNTY | TOTAL SHEET NO. | |
| ca:\pwork\puidot\pletschr\02426210\036222-01-detai1.dgn | 6622-01-detai1.dgn | DRAWN - | REVISED - | | | VAB. | | VAB. | 43 | 16 |
| | | CHECKED - | REVISED - | | | CONTRACT NO. 66E22 | | | | |
| | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |
| PLOT SCALE = 5000.0000 / in. | | PLOT DATE = 3/2/2015 | | SCALE: _____ SHEET NO. _____ OF _____ SHEETS | | STA. _____ TO STA. _____ | | | | |

TYPE 3A ONLY



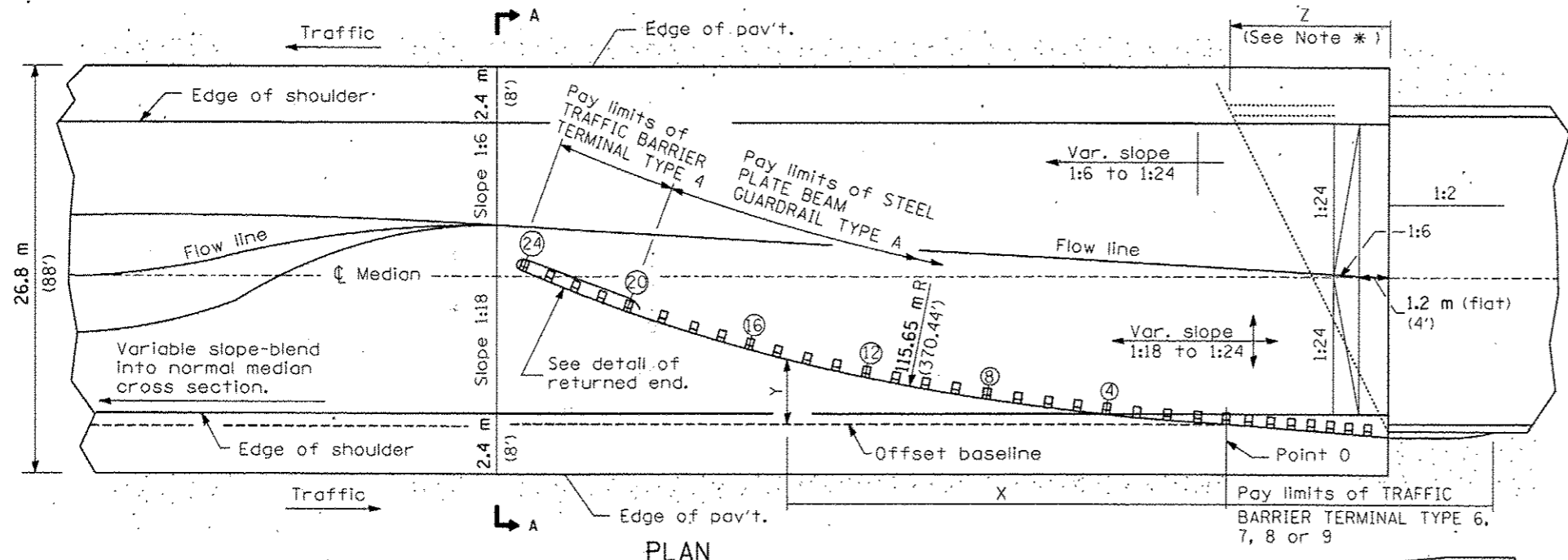
TYPE 3 & 3A



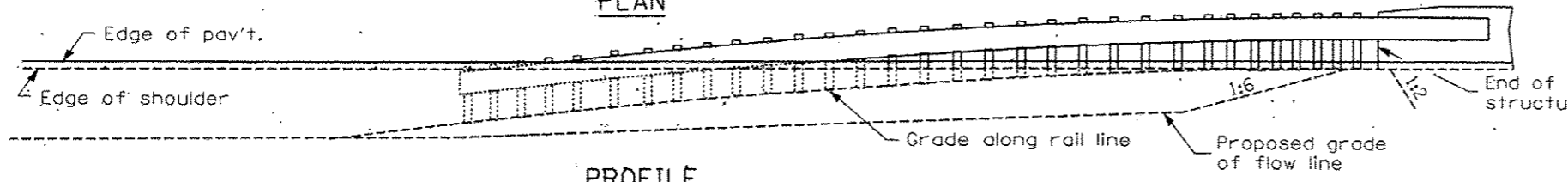
DETAIL INCLUDED FOR REPAIR ONLY

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

| | | | | | | | | | |
|---|---------------------------------|------------|-----------|---|---|--|---------|----------|------------------|
| FILE NAME = | USER NAME = pletschr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC BARRIER TERMINAL TYPE 3 & 3A | * DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016 | | | |
| cr:\pw\work\avidot\pletschr\d2426210\030522-sht-detail1.dgn | PLLOT SCALE = 9000.0000 / 1 in. | DRAWN - | REVISED - | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS |
| PLLOT DATE = 3/2/2015 | | CHECKED - | REVISED - | | | VAB. | | | 43 |
| | | DATE | REVISED - | | | CONTRACT NO. 66E22 | | ILLINOIS | FED. AID PROJECT |



PLAN



PROFILE

ASSEMBLY FOR 26.8 m (88 ft.) MEDIAN

| OFFSETS TO FACE OF RAIL | | |
|-------------------------|----------------------|--------------------|
| POST | DISTANCE X (m (ft.)) | OFFSET Y (m (ft.)) |
| POINT 0 | 0 (0) | 0 (0) |
| ④ | 7.60 (24.93) | 0.56 (1.83) |
| ⑧ | 15.14 (49.68) | 1.60 (5.28) |
| ⑫ | 22.60 (74.16) | 3.16 (10.37) |
| ⑯ | 29.94 (98.23) | 5.20 (17.05) |
| ⑳ | 37.13 (121.83) | 7.71 (25.3) |
| ㉔ | 44.14 (144.83) | 10.70 (35.09) |

Offsets (Y) are measured between the face of rail and the offset baseline, which is parallel to the pavement edge and passes through point 0.

The location of point 0 will vary, being dependent on structure details and the type of traffic barrier terminal utilized.

GENERAL NOTES

See Standard 630001 for details of guard-rail not shown.

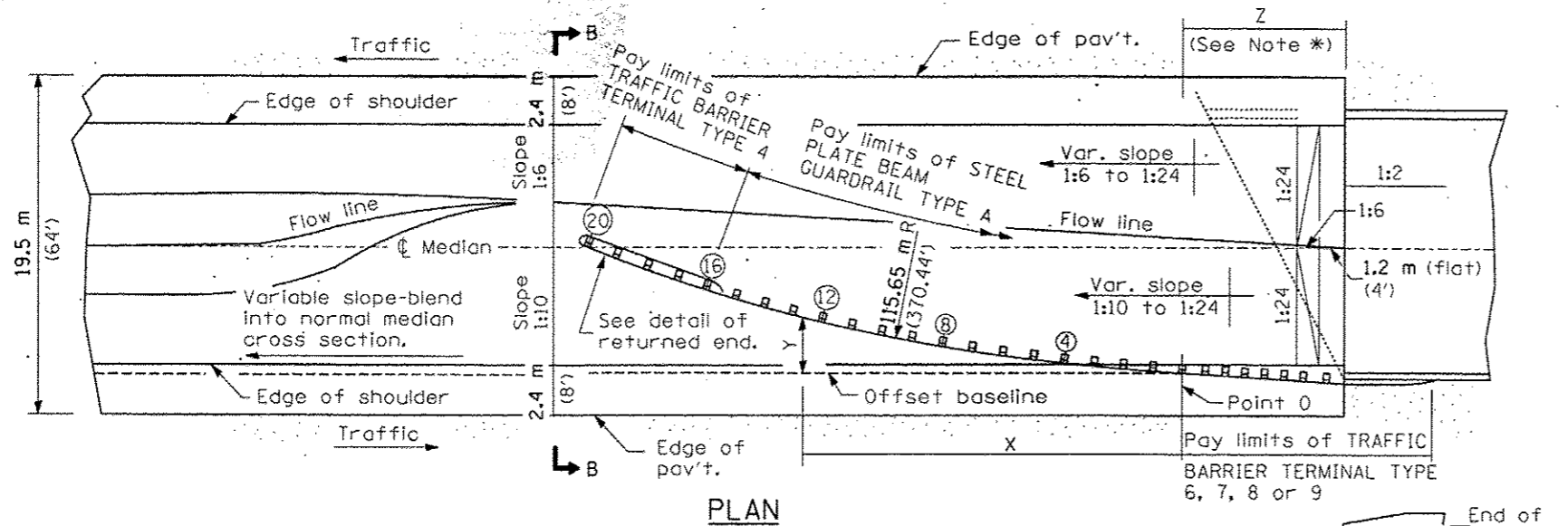
*For dual structures skewed right forward, the nose of the Type 4 terminal shall be positioned longitudinally away from the structure for a distance equal to dimension Z. Appropriate adjustments to the length of the Type A guardrail and its offsets (Y) shall be calculated and used. All additional lengths of guardrail shall be in increments of 3.87 m (12'-6").

For dual structures that are 90°, or skewed left forward, the length of guardrail is appropriate.

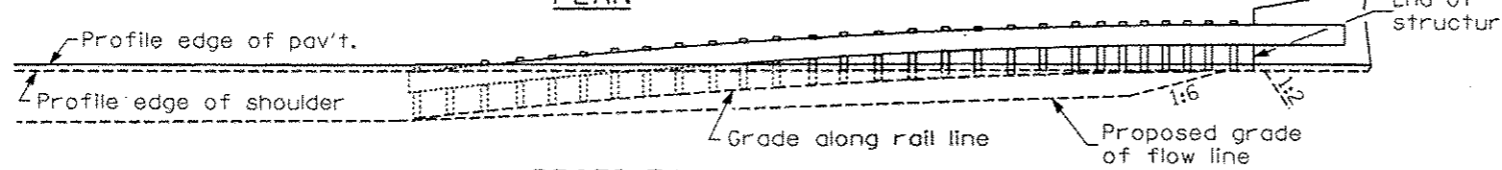
The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

All slopes are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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



PLAN

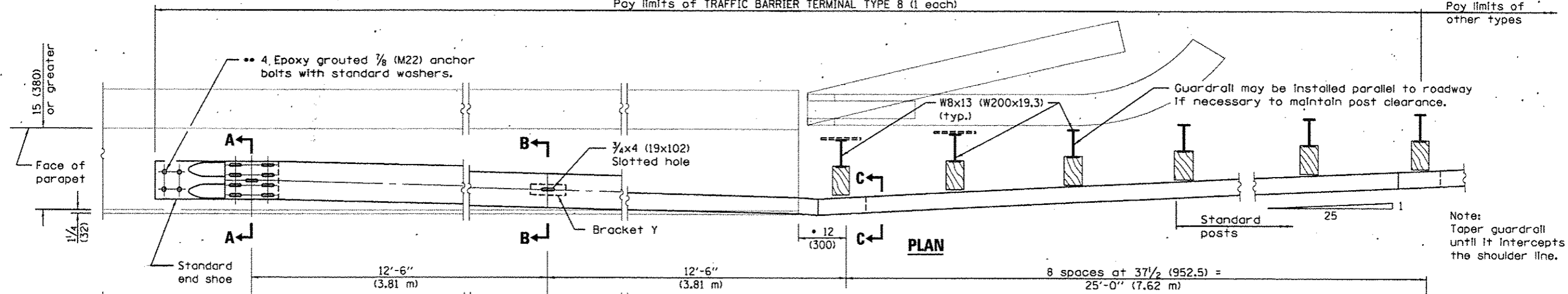


PROFILE

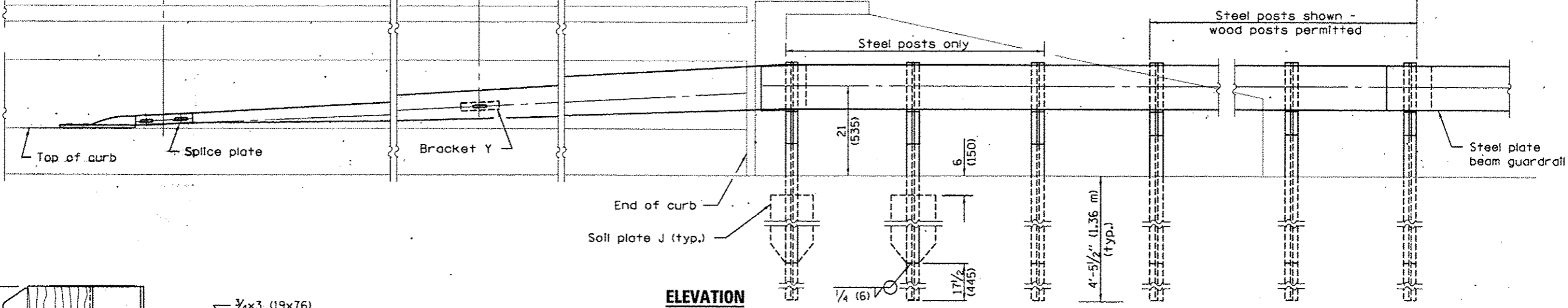
ASSEMBLY FOR 19.5 m (64 ft.) MEDIAN

DETAIL INCLUDED FOR REPAIR ONLY

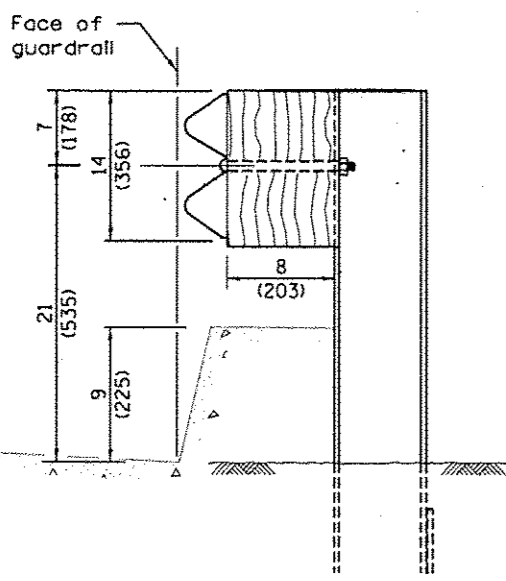
All dimensions are in millimeters (inches) unless otherwise shown.



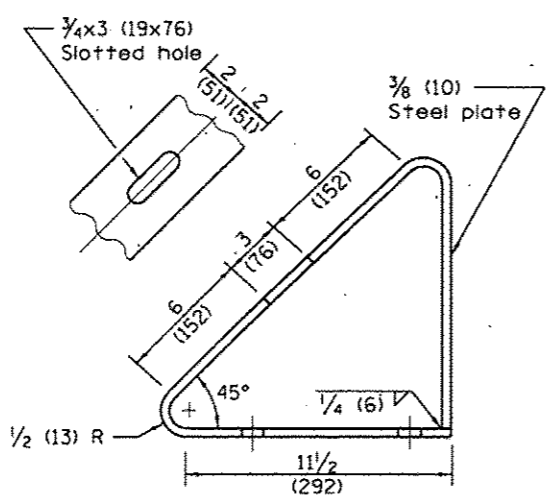
Note: Taper guardrail until it intercepts the shoulder line.



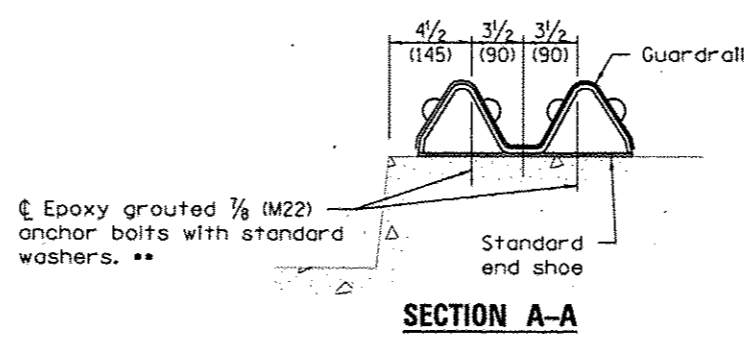
ELEVATION



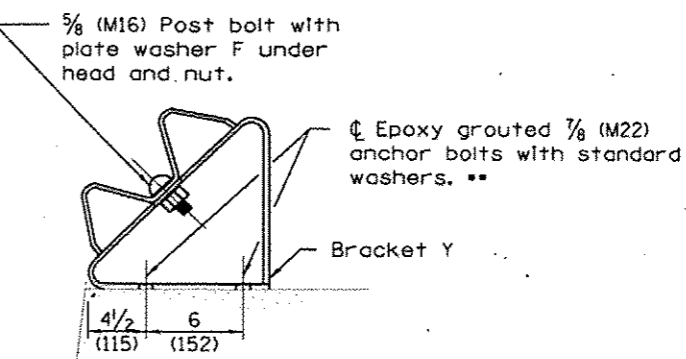
SECTION C-C



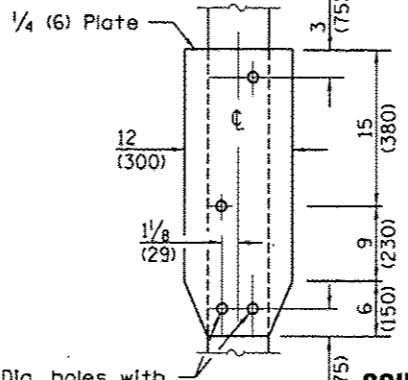
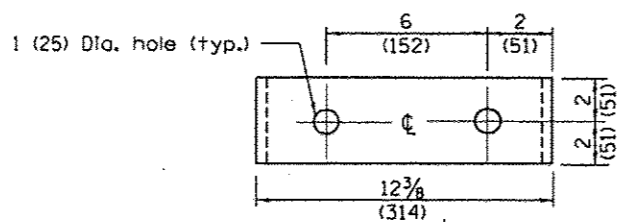
BRACKET Y



SECTION A-A



SECTION B-B



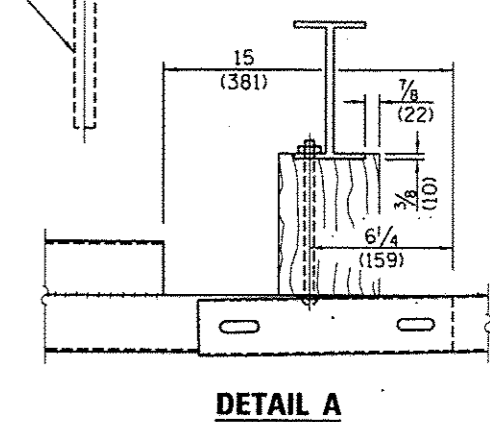
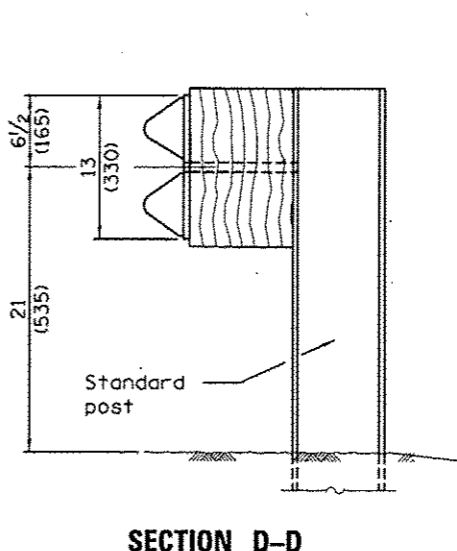
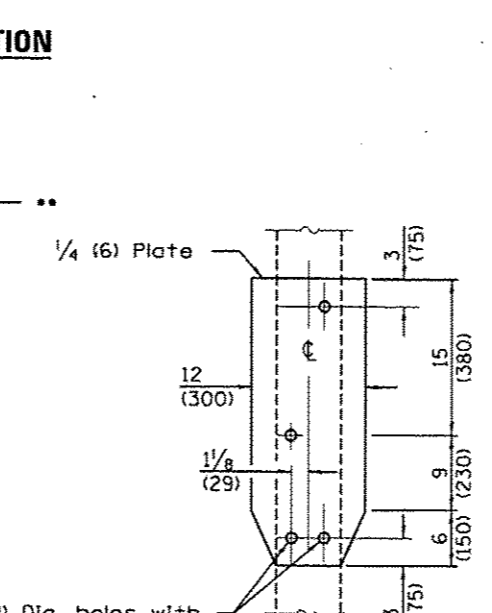
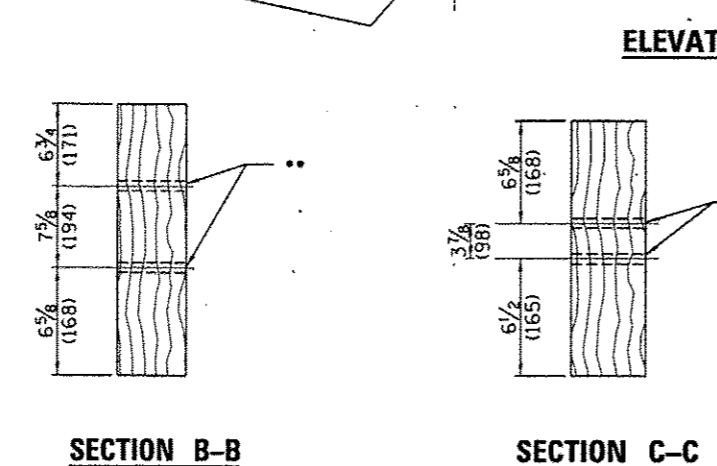
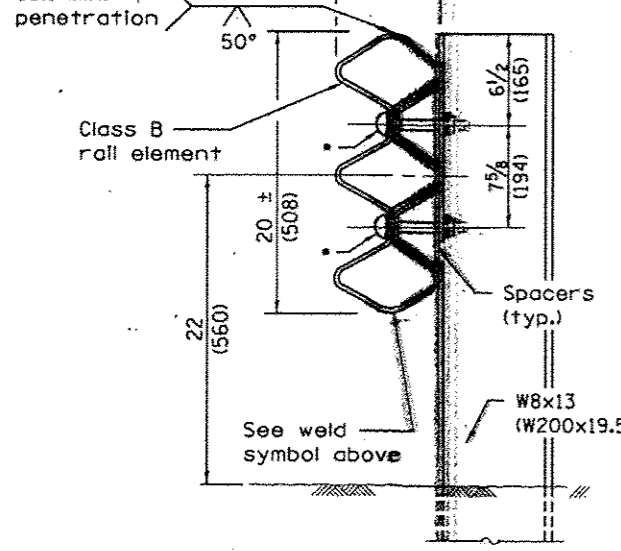
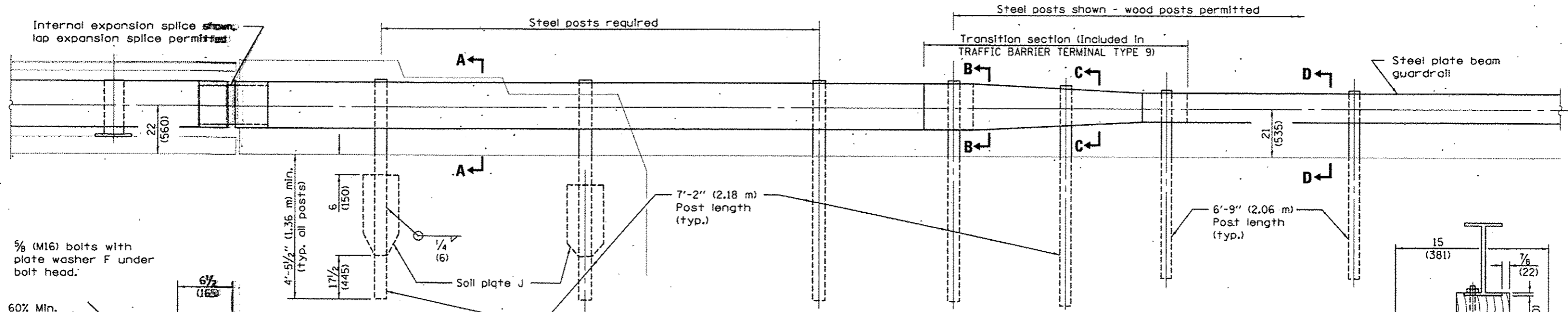
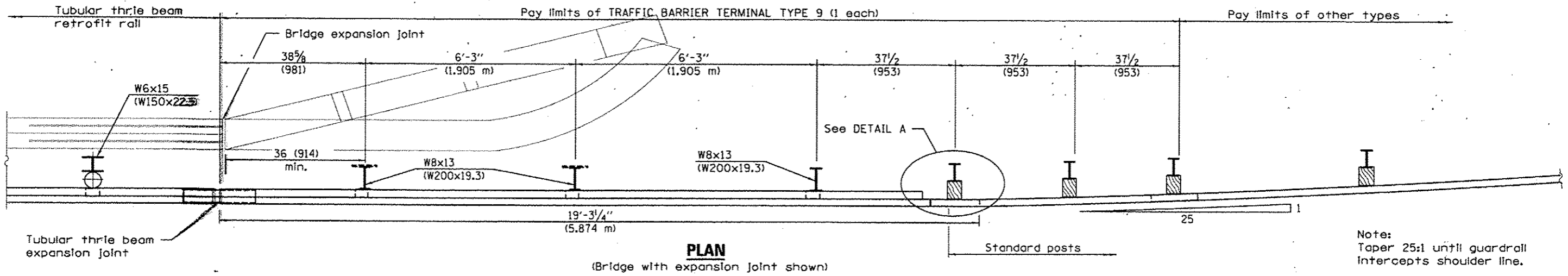
SOIL PLATE J & ALTERNATE CONNECTION DETAILS

4-3/4 (19) Dia. holes with 5/8 (M16) hex head bolts with std. hex nut (typ.)

GENERAL NOTES

- See Standard 630001 for details of guardrail not shown.
- This dimension may be increased to fit field conditions. This post shall be located first. The layout of the terminal shall be determined by its location.
- After tightening, cut the anchor bolts flush with nuts, and damage the bolt head to prevent them from loosening.
- All dimensions are in inches (millimeters) unless otherwise shown.

| | | | | | | | | | |
|-------------|------------------------------|------------|-----------|---|---|---------|---|--|-----------|
| FILE NAME * | USER NAME * pletschr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC BARRIER TERMINAL TYPE 8 | | | DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016 | |
| Default | BE22-shr-details.dgn | DRAWN - | REVISED - | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = 5000.0000 / in. | CHECKED - | REVISED - | | VAB. | | VAB. | 43 | 20 |
| | PLOT DATE = 3/2/2015 | DATE - | REVISED - | | SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____ | | CONTRACT NO. 66E22 ILLINOIS FED. AID PROJECT | | |



See Standards 509001 and 630001 for details of guardrail elements not shown.

GENERAL NOTES

The Type 9 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 509001.

The Type 9 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 509001.

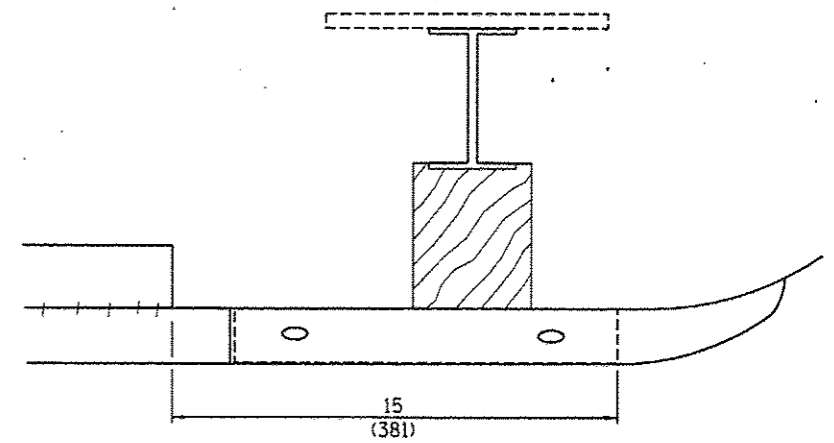
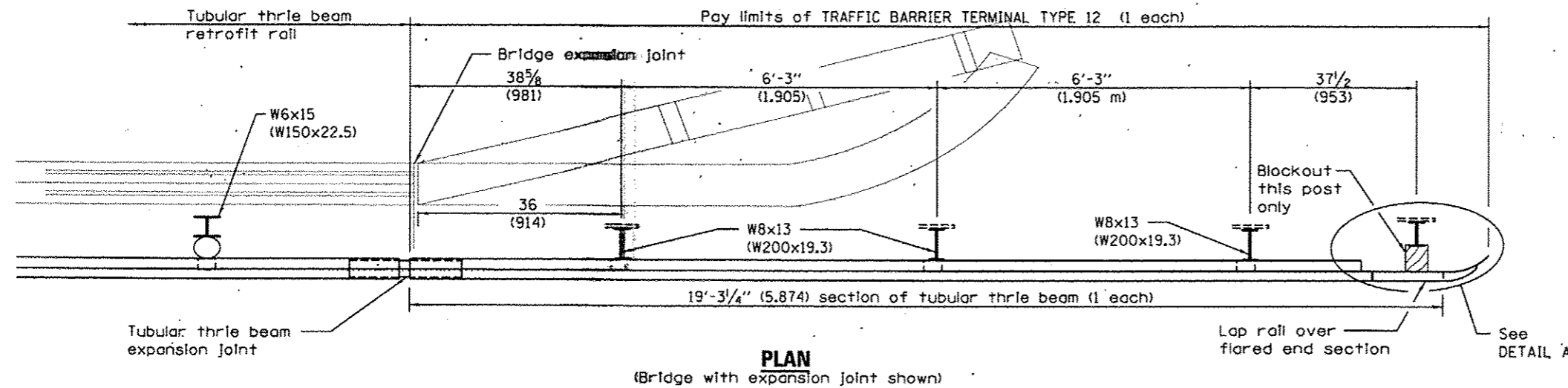
All dimensions are in inches (millimeters) unless otherwise shown.

See Standards 509001 and 630001 for details of guardrail elements not shown.

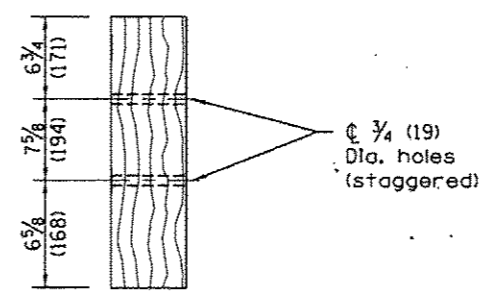
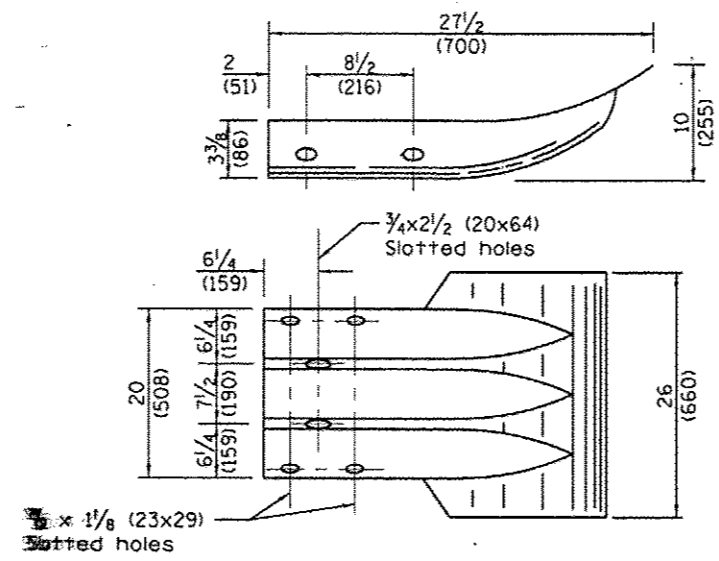
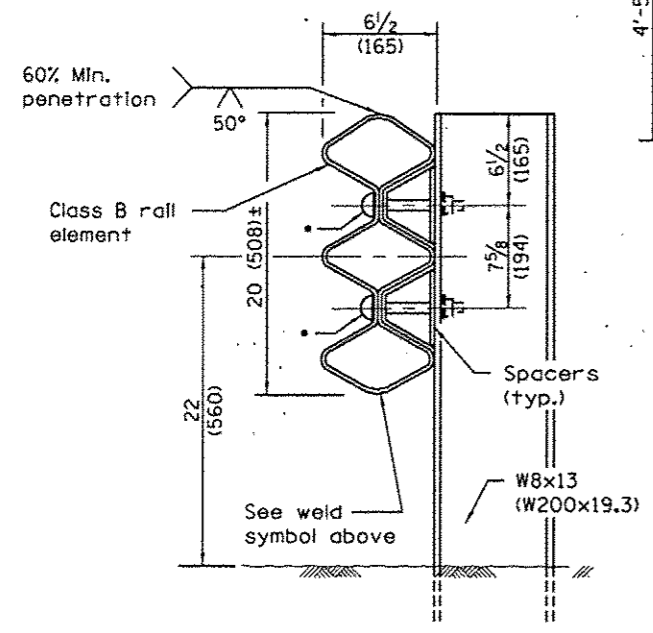
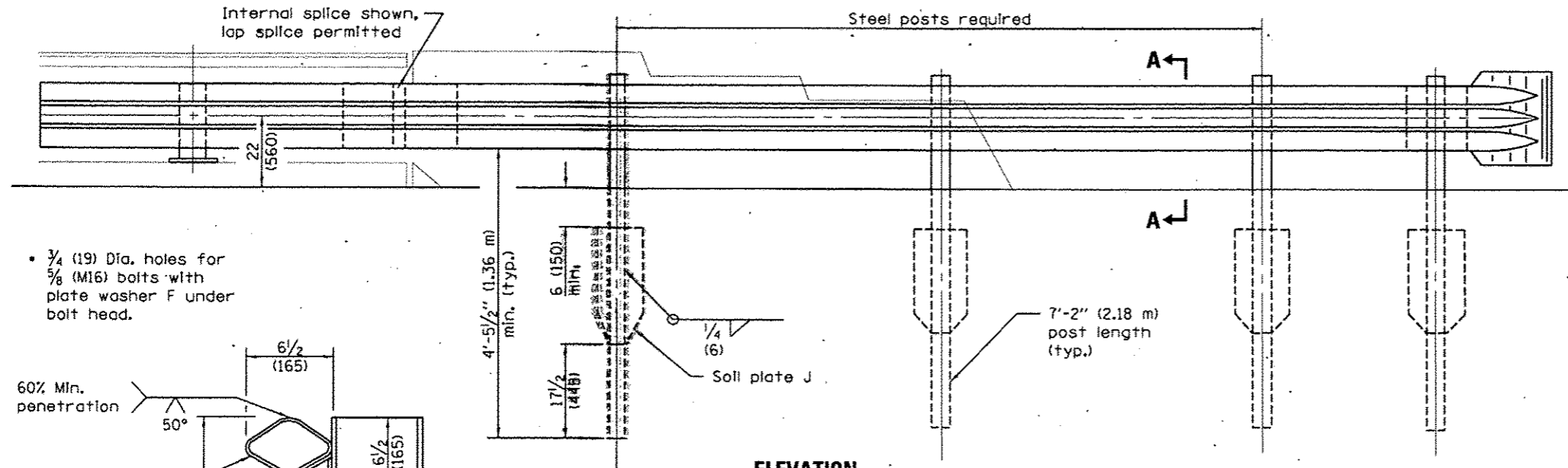
| | | | | | | | | | | | |
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| FILE NAME | USER NAME | DESIGNED | REVISED | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC BARRIER TERMINAL TYPE 9 | SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____ | F.A. R.E. YAB. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default | BE22-sht-detail3.dgn | DRAWN | REVISED | | | | | | | 43 | 21 |
| | PLOT SCALE: 1/8" = 1'-0" | CHECKED | REVISED | | | | | | | CONTRACT NO. 66E22 | |
| | PLOT DATE: 3/27/2018 | DATE | REVISED | | | | | | | ILLINOIS FED. AID PROJECT | |

DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016

DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016

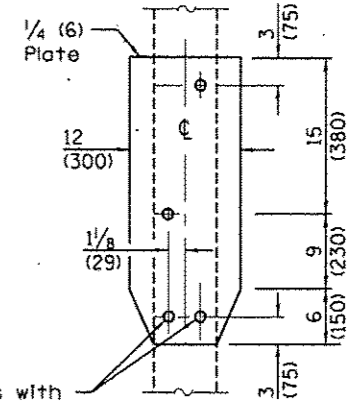


DETAIL A



4-3/4 (19) Dia. holes with 5/8 (M16) hex head bolts with std. hex nut (typ.)

SOIL PLATE J & ALTERNATE CONNECTION DETAILS



GENERAL NOTES

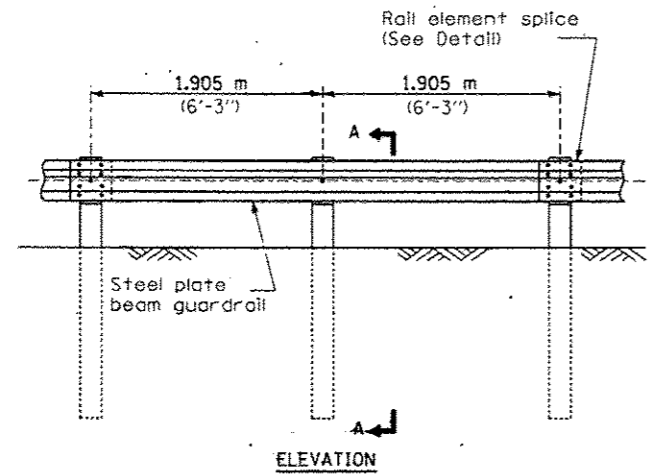
See Standard 509001 and 630001 for details of guardrail elements not shown.

The Type 12 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 509001.

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

DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016

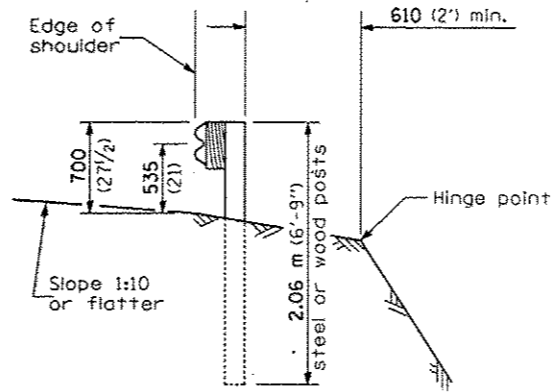
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| FILE NAME = | USER NAME = plotachtr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC BARRIER TERMINAL TYPE 12 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| c:\pwwork\psidot\plotachtr\d2426218\036E22-shr-details.dgn | PLOT SCALE = 5000.0000 1/16" = 1' | DRAWN - | REVISED - | | | VAR. | | | | 43 | 22 |
| Default | PLOT DATE = 3/22/2015 | CHECKED - | REVISED - | | | CONTRACT NO. 66E22 | | | | | |
| | | DATE | REVISED - | | | SCALE: _____ | SHEET _____ OF _____ SHEETS | STA. _____ TO STA. _____ | ILLINOIS FED. AID PROJECT | | |



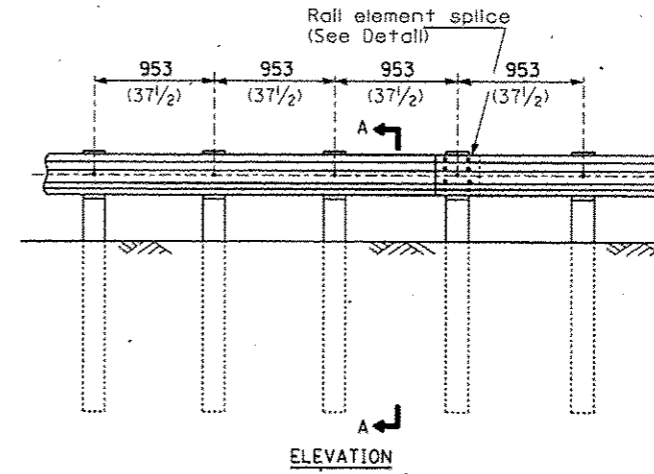
ELEVATION

TYPE A

1.905 m (6'-3") Typical post spacing



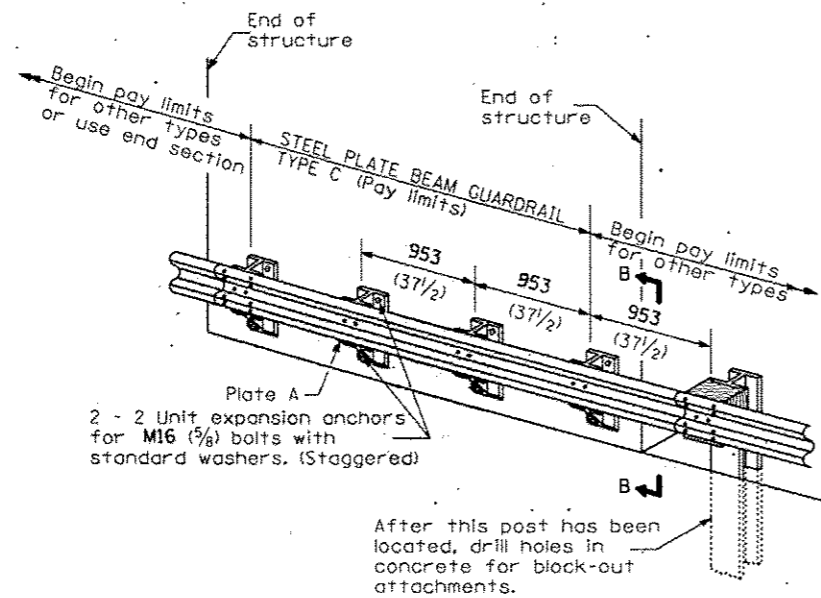
SECTION A-A



ELEVATION

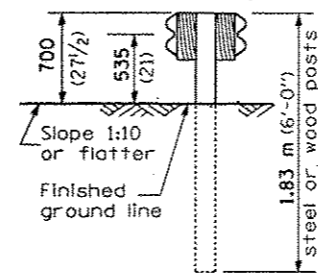
TYPE B

953 (37 1/2) Closed post spacing

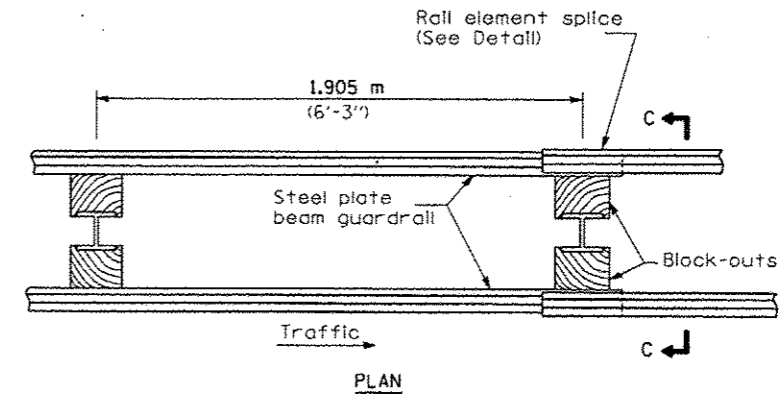


TYPE C

953 (37 1/2) Block-out spacing



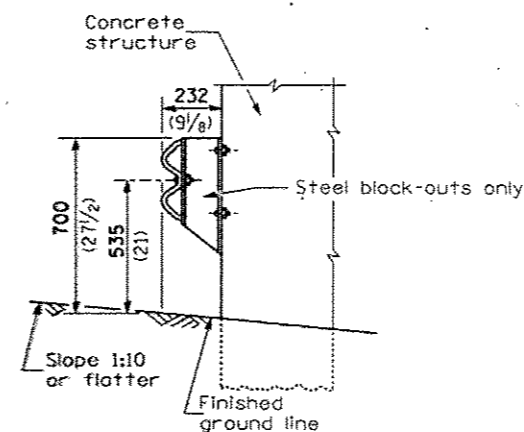
SECTION C-C



PLAN

TYPE D

Double steel plate beam guardrail
1.905 m (6'-3") typical post spacing



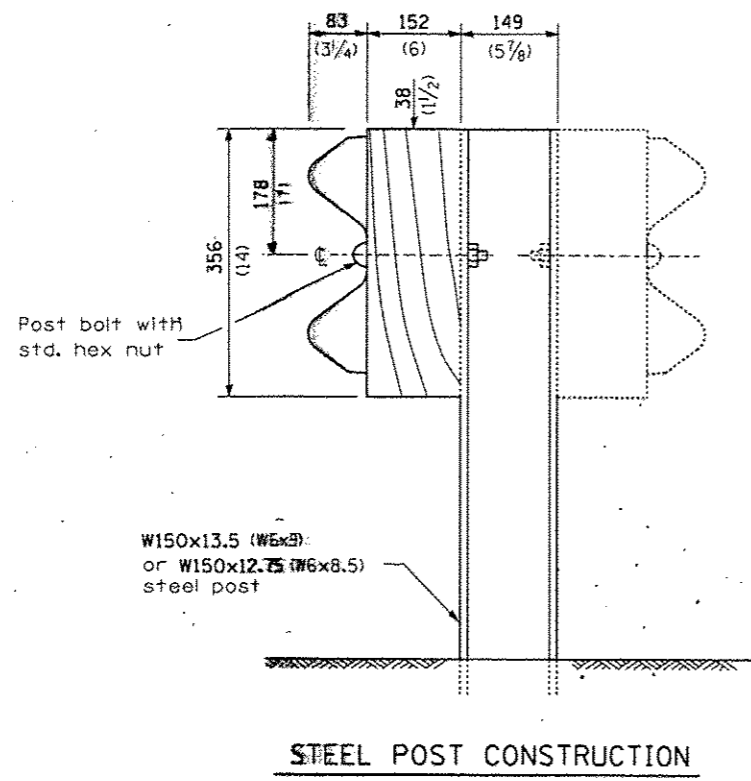
SECTION B-B

GENERAL NOTES

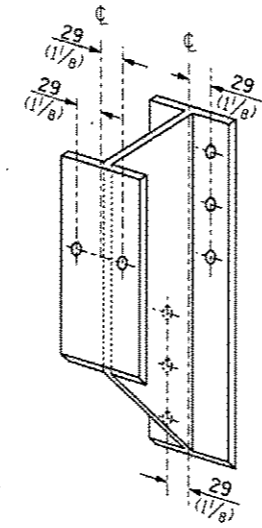
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

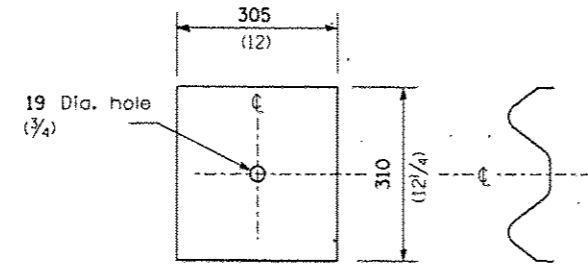
| | | | | | | | | | | |
|---|-----------------------|-----------------|---|---|---|---|----------|--------------------|---------------|------------|
| FILE NAME: \\pwwork\pwwork\plm\pwwork\426210\036E22-sht-details.dgn | USER NAME: plm\pwwork | DESIGNED: _____ | REVISOR: _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PRE-MGS EFFECTIVE 4-1-06 STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06 (Sheet 1 of 4) | F.A. RTE.: | SECTION: | COUNTY: | TOTAL SHEETS: | SHEET NO.: |
| PLOT SCALE: 5000.0000' / in. | CHECKED: _____ | REVISOR: _____ | V&B: | | | V&B: | V&B: | 43 | 23 | |
| PLOT DATE: 3/2/2015 | DATE: _____ | REVISOR: _____ | SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____ | | | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT | | CONTRACT NO. 66E22 | | |
| | | | | | | | | | | |



STEEL POST CONSTRUCTION



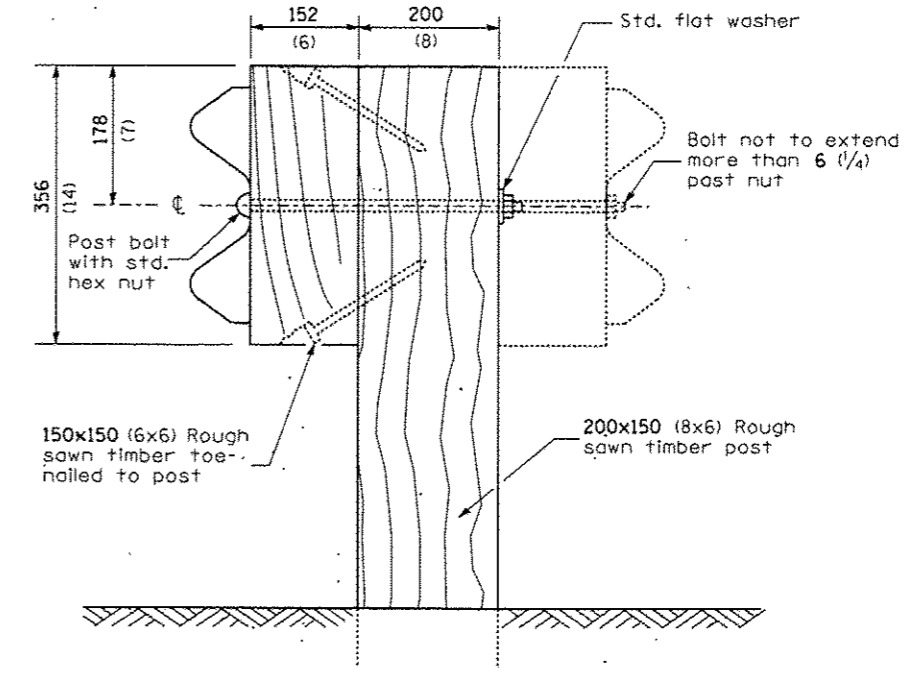
STEEL BLOCK-OUT DETAIL



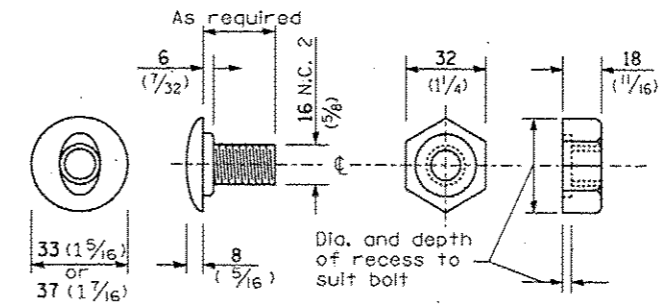
NOTE

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



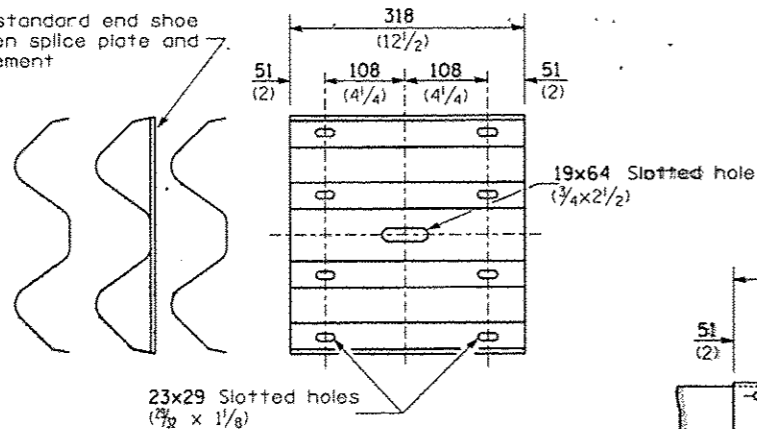
WOOD POST CONSTRUCTION



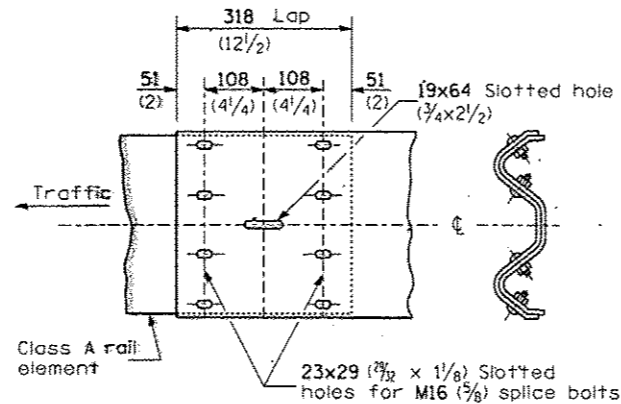
POST OR SPLICE BOLT & NUT

| | | | | | | | | | | |
|---|---------------------|------------|-----------|---|---|----------------|---------------------|--------------------|---|-------------|
| FILE NAME = | USER NAME = plotsch | DESIGNED = | REVISED = | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PRE-MGS EFFECTIVE 4-1-06 STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06 | F.A. RTE. = | SECTION = | COUNTY = | TOTAL SHEETS = | SHEET NO. = |
| c:\pwork\puidot\plotsch\d0426218\036222-shr-details.dgn | | DRAWN = | REVISED = | | | Y&B. = | | Y&B. = | 43 | 24 |
| PLOT SCALE = 5000.0000' / 1" | | CHECKED = | REVISED = | | | (Sheet 2 of 4) | | CONTRACT NO. 66E22 | | |
| PLOT DATE = 3/2/2015 | | DATE = | REVISED = | | | SCALE = | SHEET NO. OF SHEETS | STA. TO STA. | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | |

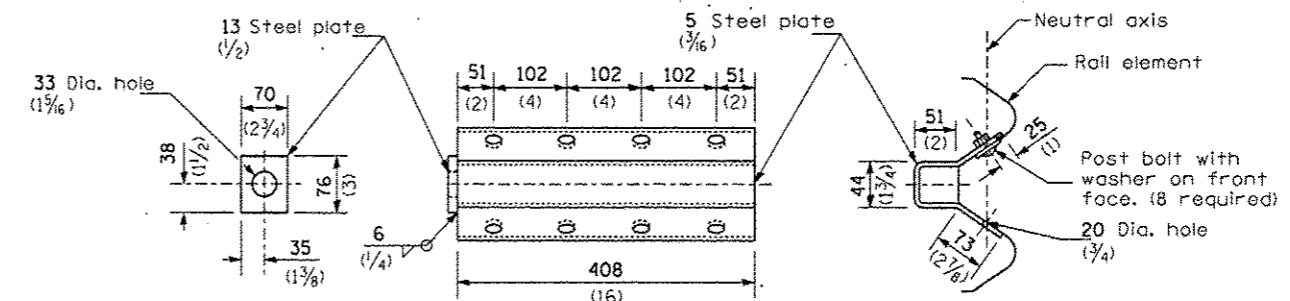
Place standard end shoe between splice plate and rail element



SPLICE PLATE



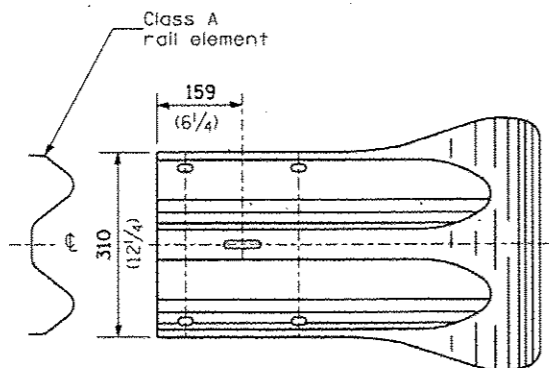
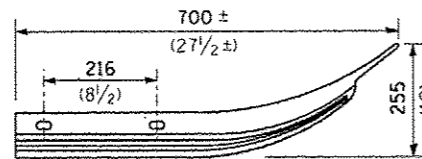
RAIL ELEMENT SPLICE



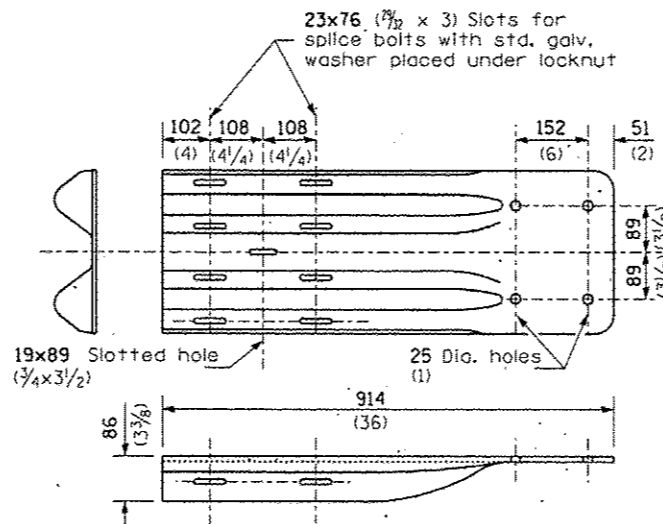
NOTE

Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

ANCHOR PLATE T DETAILS



END SECTION



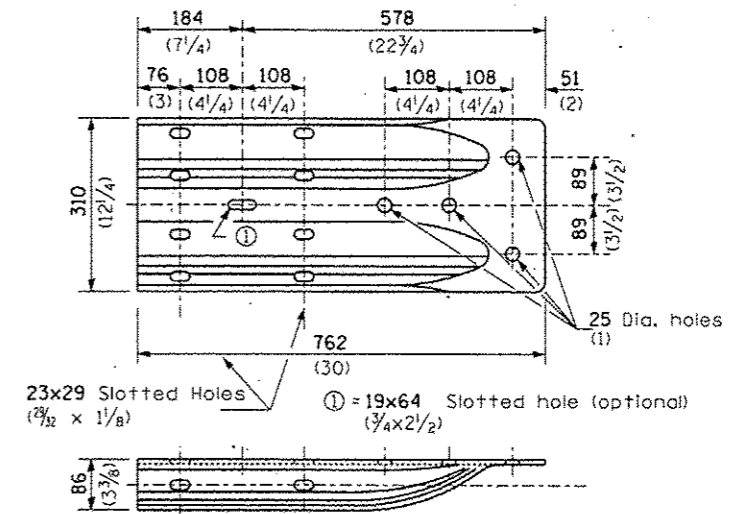
NOTE

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.

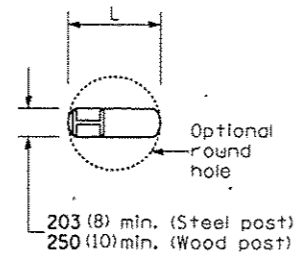
Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE

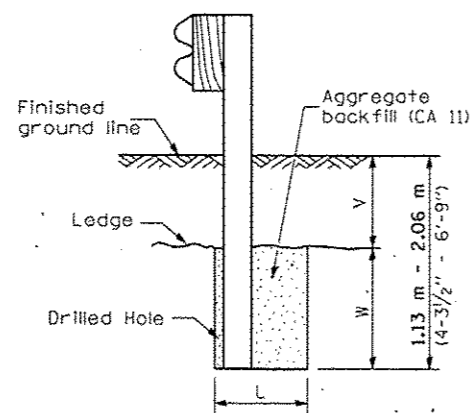


ALTERNATE END SHOE

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---------------------------------|--|--|--|---|--|--|--|
| FILE NAME - USER NAME - pletschr c:\pwork\puidot\pletschr\0426210\030222-shr-details.dgn | | | | DESIGNED - DRAWN - CHECKED - DATE - | | | | REVISED - REVISED - REVISED - REVISED - | | | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | PRE-MGS EFFECTIVE 4-1-06 STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06 (Sheet 3 of 4) | | | | F.A. - RTE. - VAB. - | | | | SECTION - COUNTY - VAB. - | | | | TOTAL SHEETS - 43 SHEET NO. - 25 CONTRACT NO. 66E22 | | | |
| PLOT SCALE = 5000.0000 / in. PLOT DATE = 3/2/2015 | | | | | | | | | | | | | | | | SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____ | | | | DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016 FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT | | | | | | | | | | | |

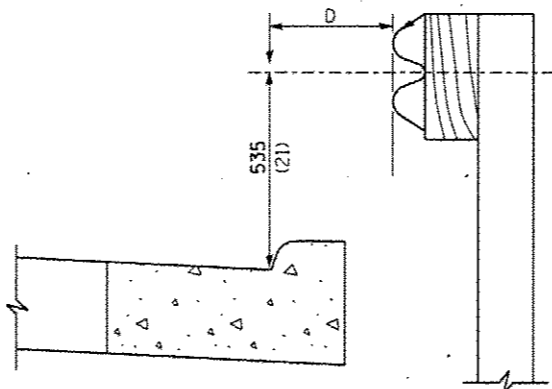


PLAN



ELEVATION

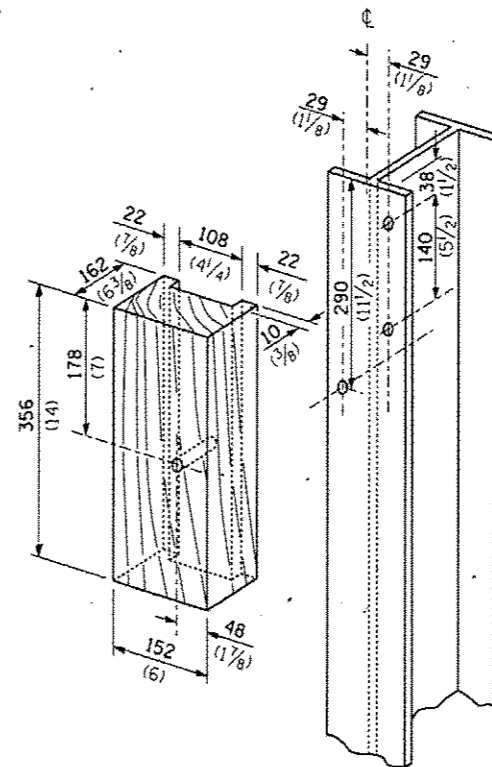
FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



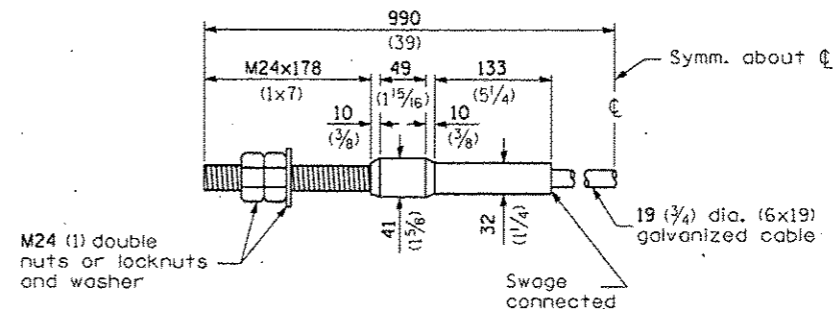
GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to 300 (12) maximum)

| V | W | L | |
|---------------------------------|---------------------|-------------|-------------|
| | | Steel Post | Wood Post |
| 0 - 460 (0 - 18) | 610 (24) | 530 (21) | 580 (23) |
| >460 - 825 (>18 - 41.5) | 305 (12) | 203 (8) | 250 (10) |
| >825 - 1.13 m (>41.5 - 53.5) | 305 - 0 (12 - 0) | 203 (8) | 250 (10) |



WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

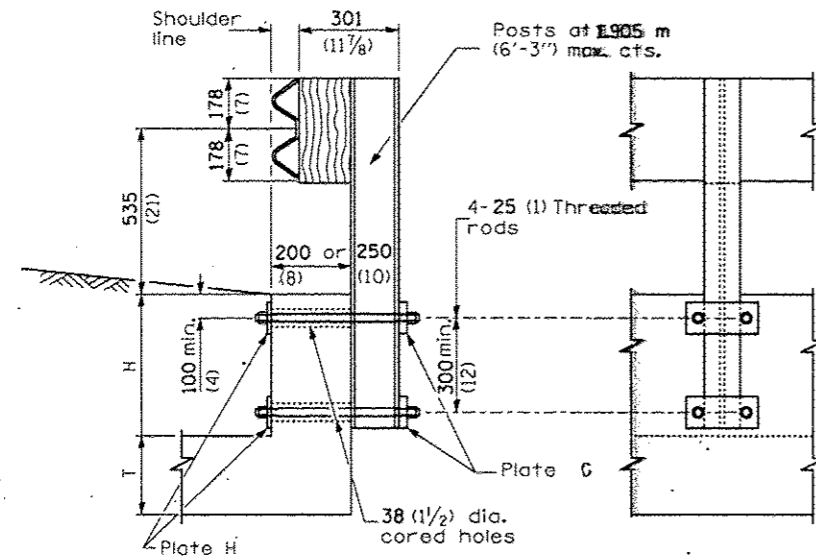
(18,100 kg (40,000 lbs.) min. breaking strength)
Tighten to taut tension.

| | | | |
|---|----------------------------|------------|-----------|
| FILE NAME > | USER NAME = platschr | DESIGNED - | REVISED - |
| c:\pwork\pvidot\platschr\426218\0366E22-sht-details.dgn | | DRAWN - | REVISED - |
| | PLOT SCALE = 5000.0000 / 1 | CHECKED - | REVISED - |
| | PLOT DATE = 3/2/2015 | DATE - | REVISED - |

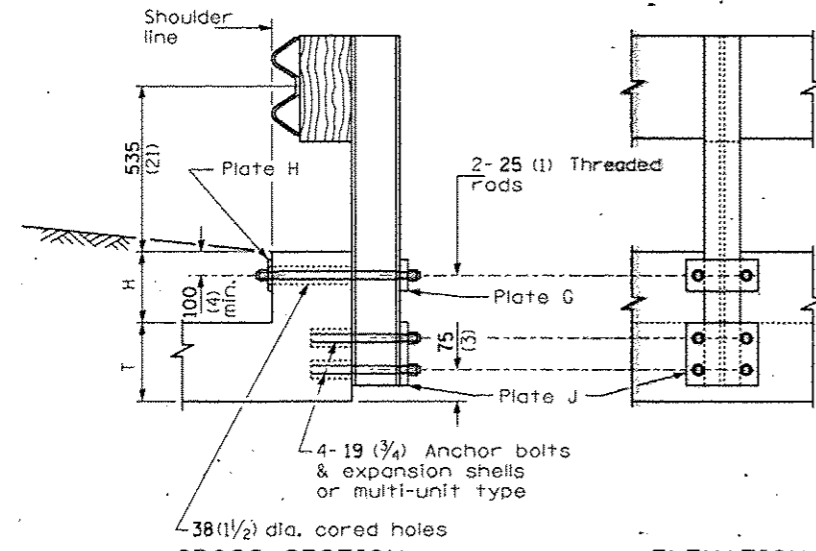
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|---|---------------------|--------------|--|
| PRE-MGS EFFECTIVE 4-1-06 STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06 (Sheet 4 of 4) | | | |
| SCALE: | SHEET NO. OF SHEETS | STA. TO STA. | |

| | | | |
|---|---------|--------|--------------|
| DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016 | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS |
| VAR. | | VAR. | 43 |
| | | | SHEET NO. 26 |
| CONTRACT NO. 66E22 | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | |

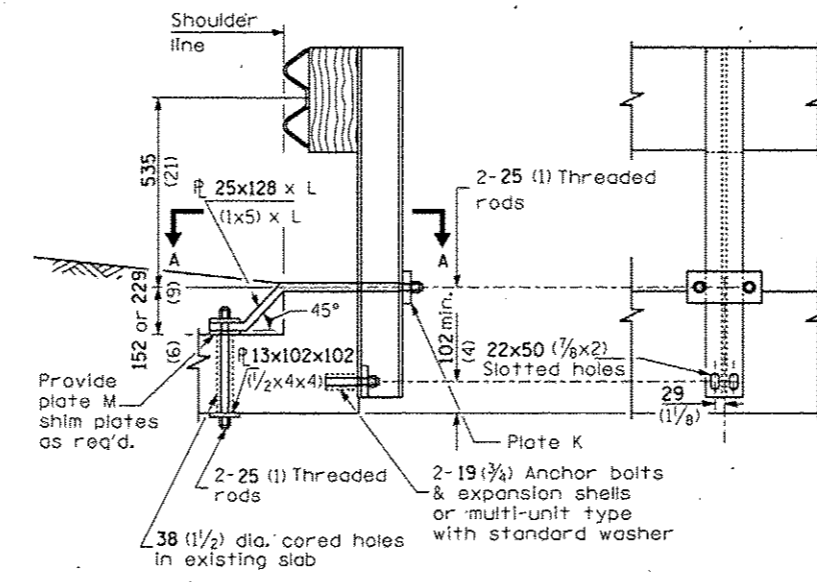


CROSS SECTION **ELEVATION**
CONDITION H > 450 (18)



CROSS SECTION **ELEVATION**
CONDITION H < 450 (18) & H+T ≥ 510 (20)

CASE I
MOUNTED ON
RAISED HEADWALL



CROSS SECTION **ELEVATION**
CASE II
MOUNTED ON TOP HEADWALL
WITH SQUARE TIP

| PLATE DIMENSIONS | | | | | | | | |
|------------------|---------|---------|------------|---------|--------|------------|------------|------------|
| Type | A | B | C | D | E | F | Hole Dia. | Thick-ness |
| G | 230 (9) | 100 (4) | 40 (1 1/2) | 150 (6) | 75 (3) | 50 (2) | 29 (1 1/8) | 25 (1) |
| H | 230 (9) | 100 (4) | 40 (1 1/2) | 150 (6) | 75 (3) | 50 (2) | 29 (1 1/8) | 13 (1/2) |
| J | 230 (9) | 126 (5) | 40 (1 1/2) | 150 (6) | 75 (3) | 31 (1 1/4) | 22 (7/8) | 25 (1) |
| K | 230 (9) | 100 (4) | 40 (1 1/2) | 150 (6) | 75 (3) | 50 (2) | 29 (1 1/8) | 32 (1 1/4) |
| M | 100 (4) | 100 (4) | 50 (2) | N/A | N/A | 50 (2) | 32 (1 1/8) | 13 (1/2) |

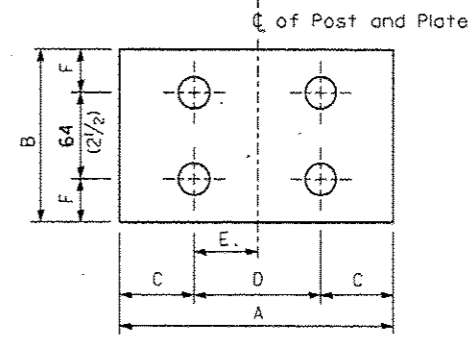
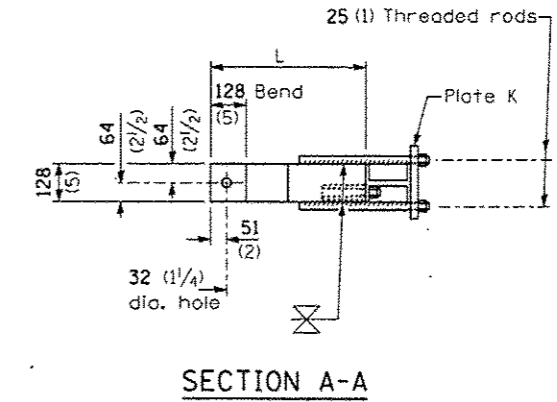
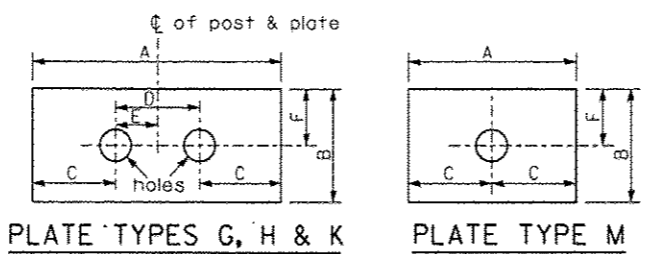


PLATE TYPE J

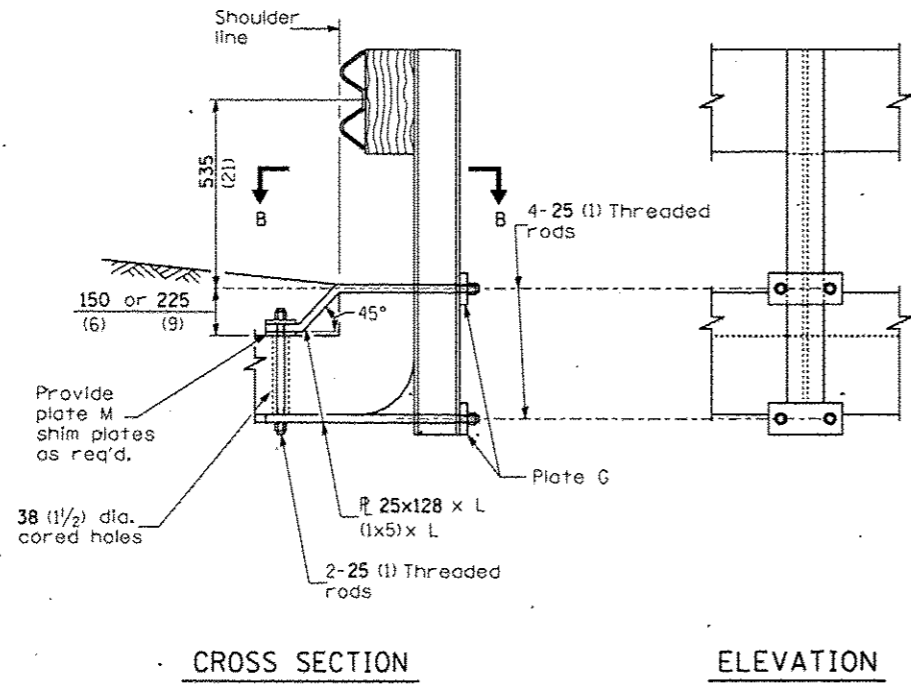
GENERAL NOTES

Except as noted, dimensions and notes specified for case II, III, and IV are the same as specified for case I.

For details of guardrail elements not shown, see Standard 630001.

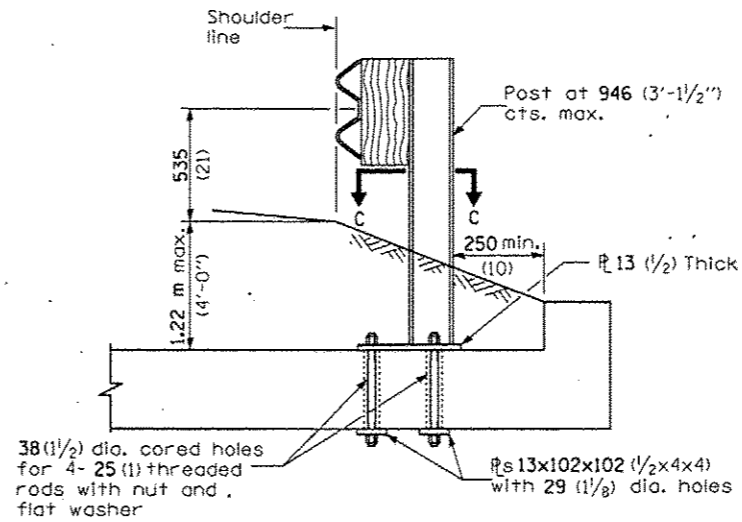
All threaded rods shall be installed with heavy hex nuts and standard washers.

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

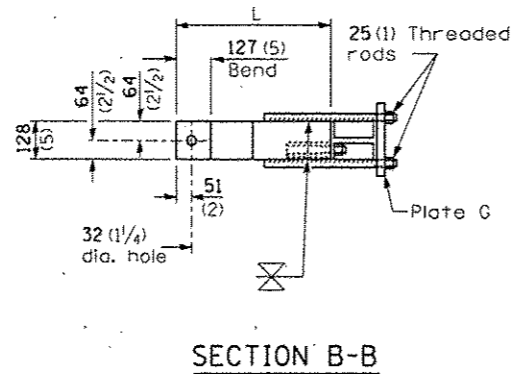


CROSS SECTION

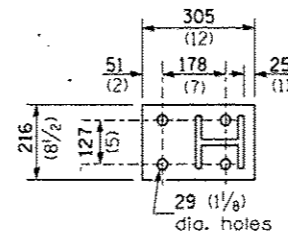
ELEVATION



CROSS SECTION



SECTION B-B



SECTION C-C

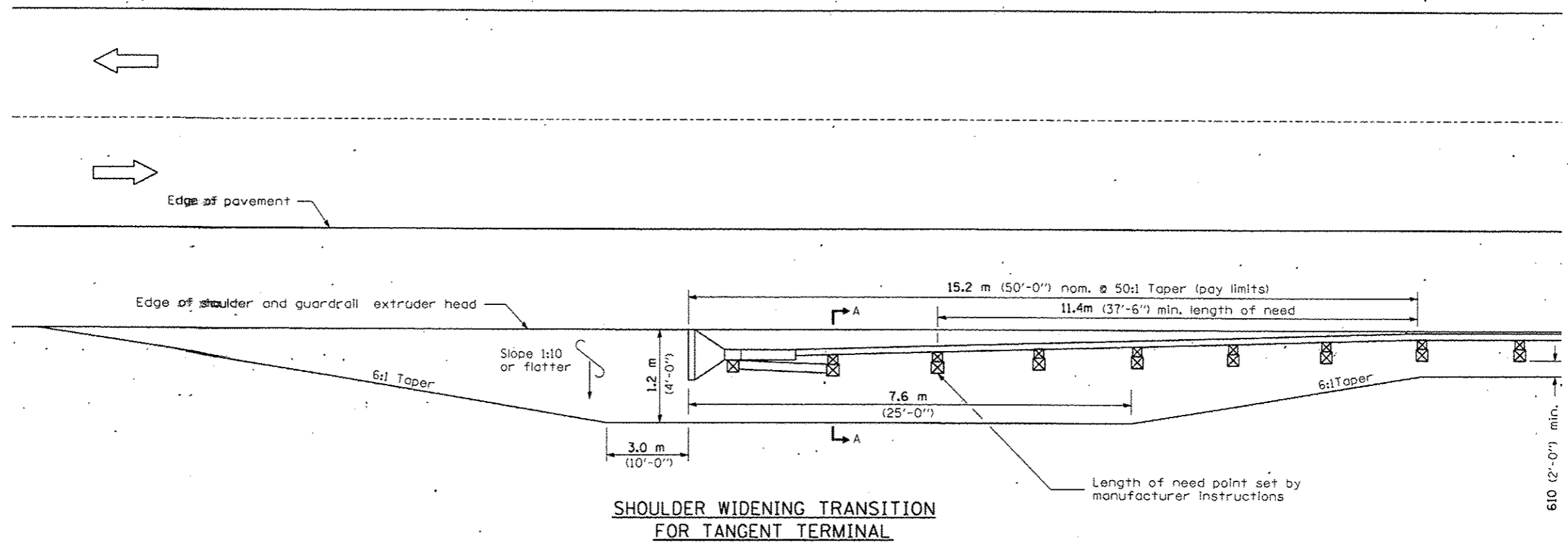
CASE III
MOUNTED ON HEADWALL
WITH CURVED OR DEMOLISHED TIP

CASE IV
MOUNTED ON SLAB

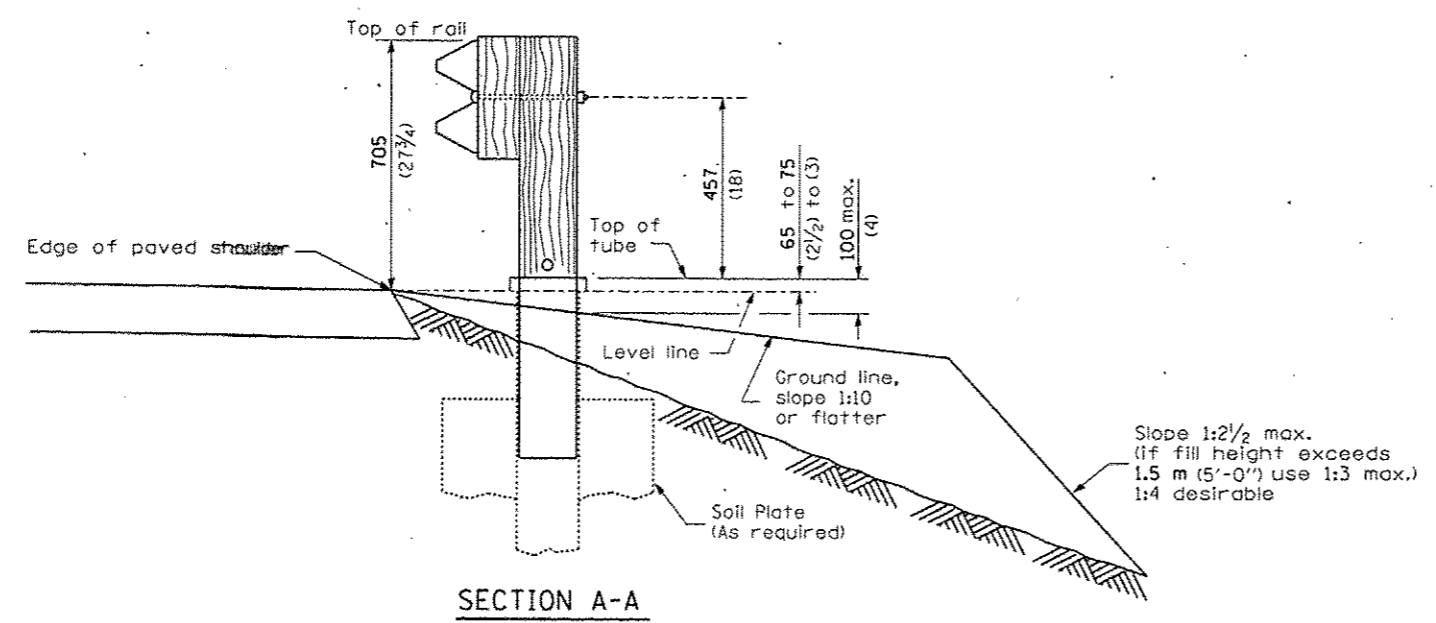
All dimensions are in millimeters (inches) unless otherwise shown.

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| | | | | SCALE: SHEET NO. OF SHEETS STA. TO STA. | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | |

DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016



**SHOULDER WIDENING TRANSITION
FOR TANGENT TERMINAL**



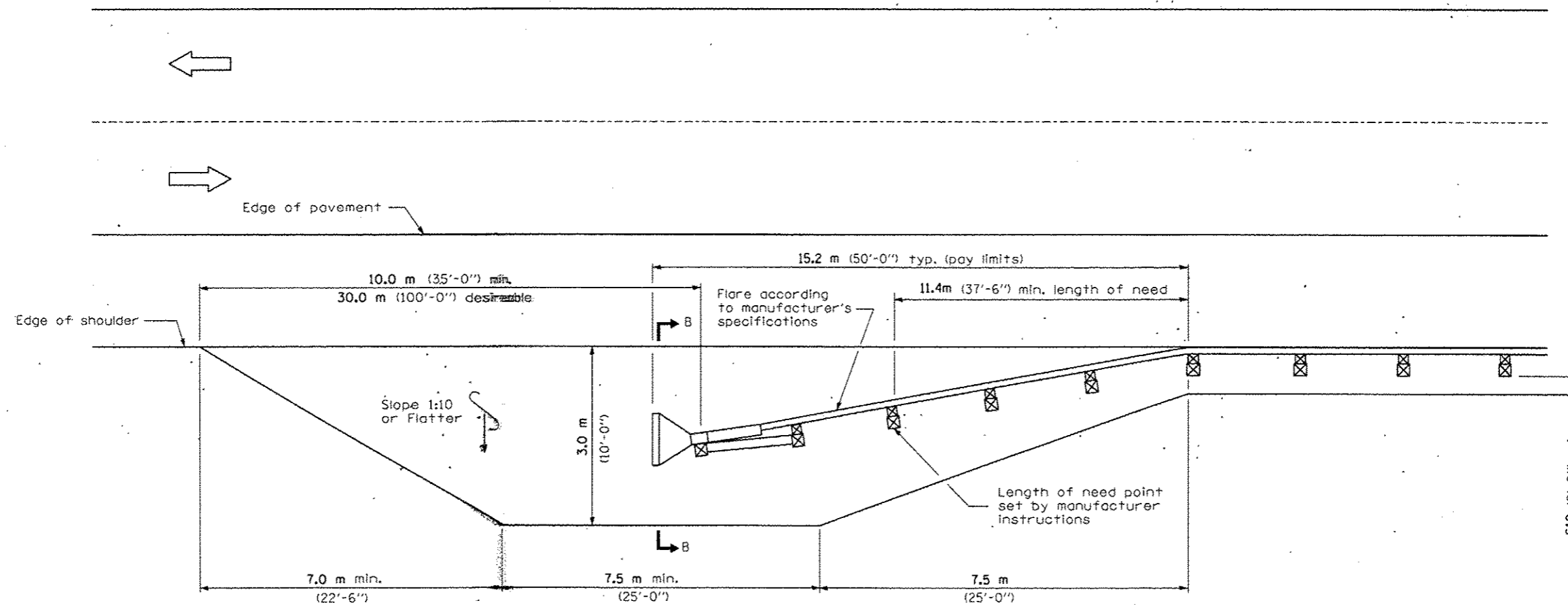
SECTION A-A

GENERAL NOTES

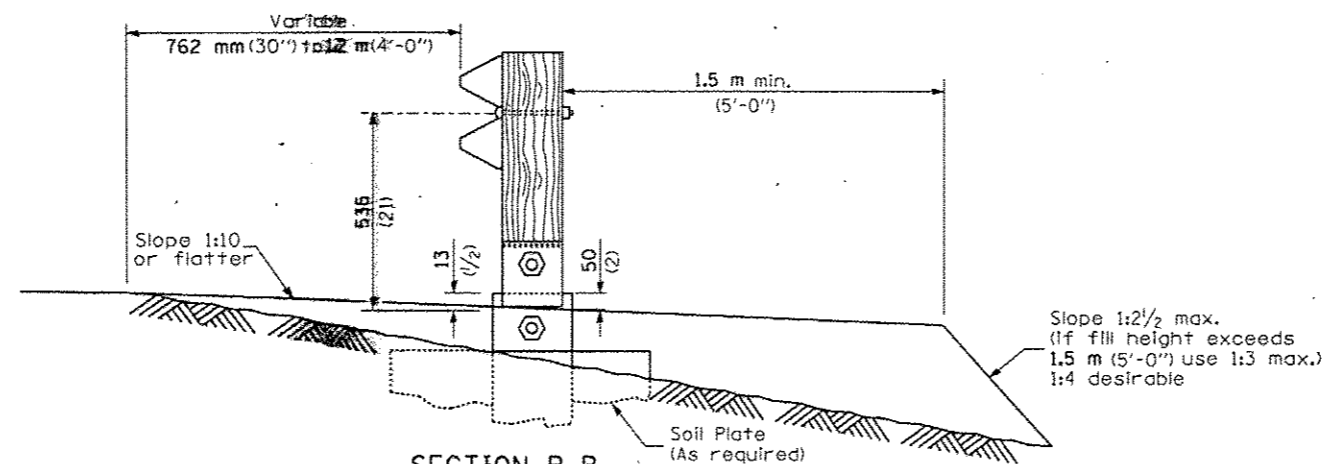
- 50:1 Taper required so the guardrail head will not encroach on the shoulder.
- All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
- All dimensions are in millimeters (inches) unless otherwise shown.

| | | | | | | | |
|---|-----------------------|------------|-----------|---|---|---------------------|---|
| FILE NAME * | USER NAME * pletschr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PRE-MGS EFFECTIVE 4-1-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS STANDARD 630301-03 | (Sheet 1 of 2) | F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. V&B. 43 29 |
| c:\pwork\pudot\pletschr\0426218\0366E22-ahd-details.dgn | 66E22-ahd-details.dgn | CHECKED - | REVISED - | | | | CONTRACT NO. 66E22 |
| PLOT SCALE = 5000.0000 1/ in. | | TITLE - | REVISED - | | SCALE# | SHEET NO. OF SHEETS | FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT |
| PLOT DATE = 3/2/2015 | | | | | | STA. TO STA. | |

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016



**SHOULDER WIDENING TRANSITION
FOR FLARED TERMINAL**



SECTION B-B
(end section omitted for clarity.)

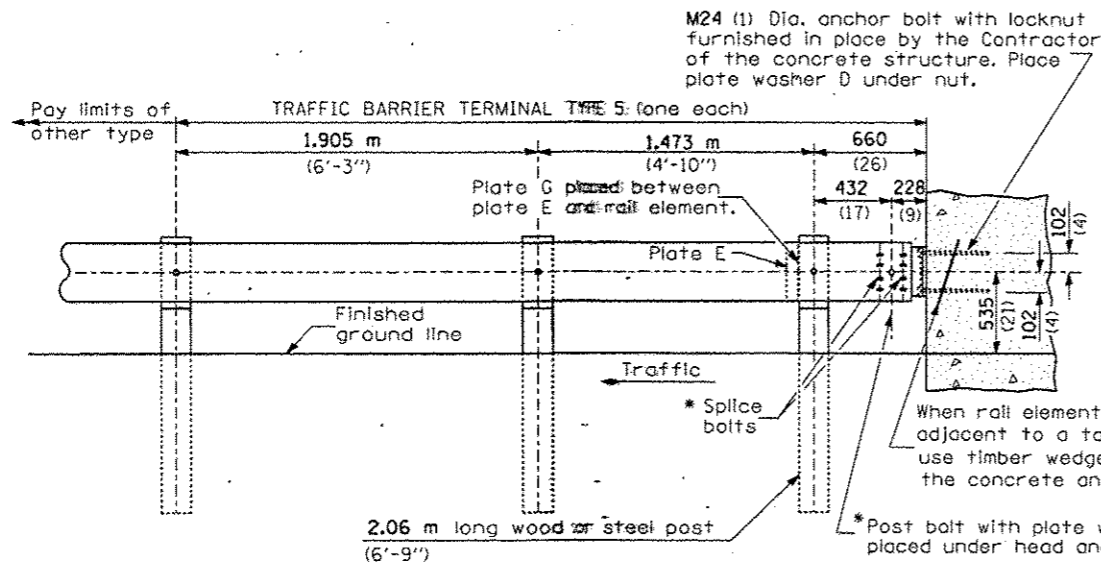
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| PLOT SCALE * 5000.0000 / in. | | CHECKED - | REVISED - |
| PLOT DATE * 3/2/2015 | | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

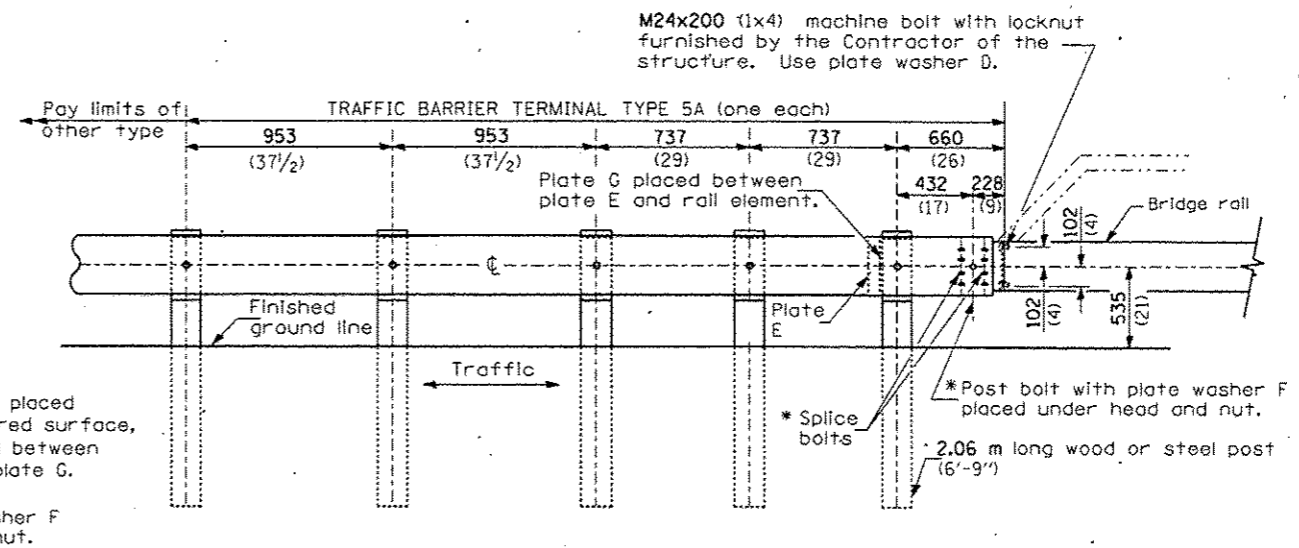
**PRE-MGS EFFECTIVE 4-1-06
SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
STANDARD 630301-03** (Sheet 2 of 2)

| | | | |
|---|---------|--------------------|-----------------|
| * DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016 | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEET NO. |
| 168. | * | | 43 |
| | | Y&B. | 30 |
| | | CONTRACT NO. 66E22 | |
| FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT | | | |

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



TYPE 5 - CONCRETE BRIDGE PARAPET



TYPE 5A - STEEL BRIDGE RAIL

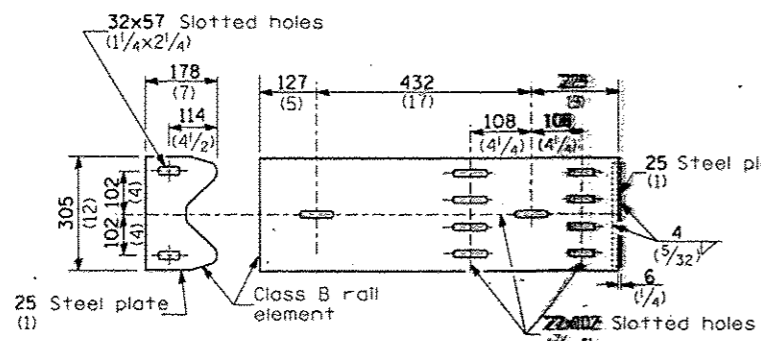


PLATE G

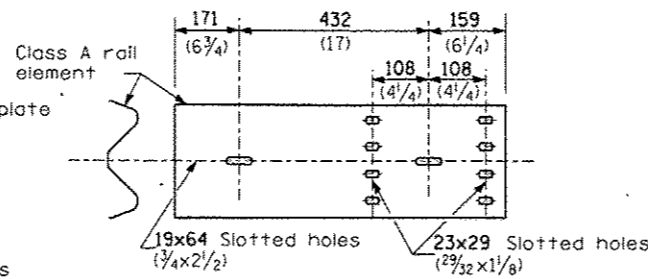
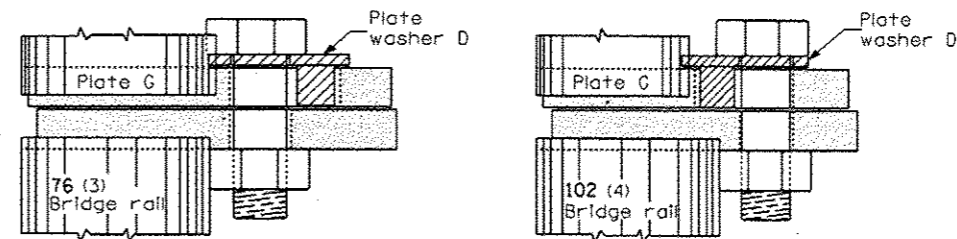


PLATE E



PLACEMENT OF PLATE WASHER D

(PLAN)

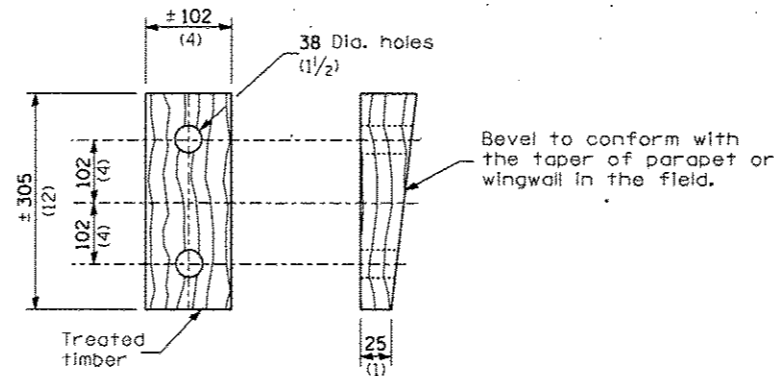
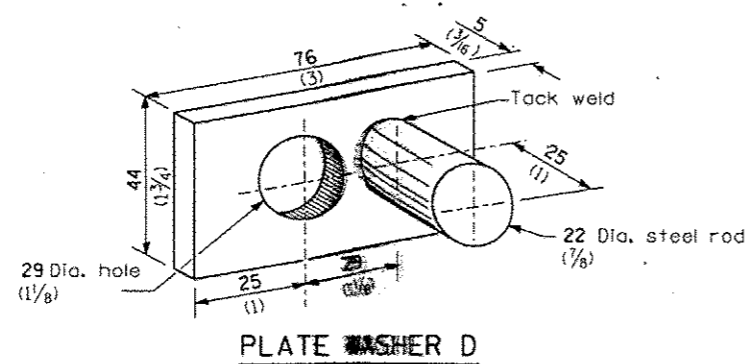
GENERAL NOTES

Install plate washer D so that the 25 mm (1") projection fills the remainder of the slotted holes in the 25 mm (1") end plate on plate G after the M24 (1") dia. bolts are in place.

* Bolts shall be provided with locknut or double nut and shall be tightened only to a point that will allow plate G to be free to move when an expansion joint exists below the connector.

See Standard 630001 for details of guardrail not shown.

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



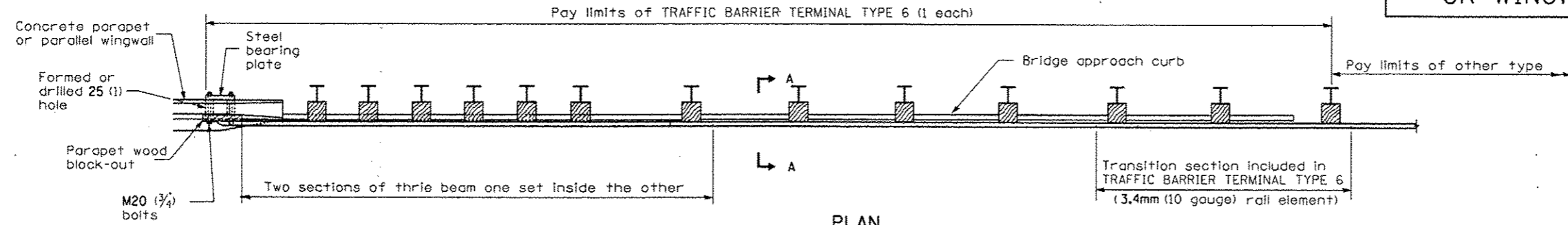
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| | | DATE = | REVISED = |
| | | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

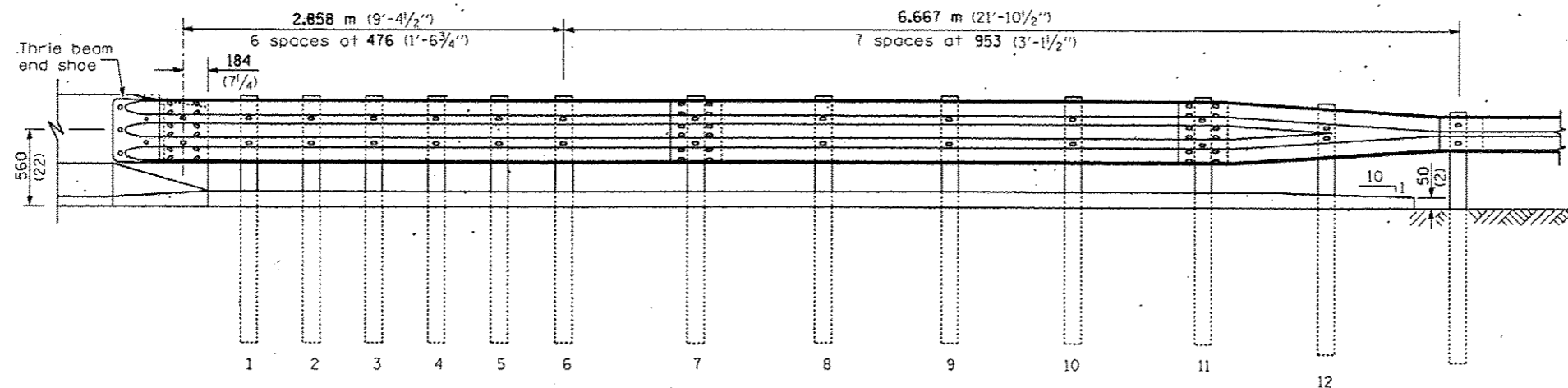
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| PRE-MGS EFFECTIVE 4-1-06 | | | |
| TRAFFIC BARRIER TERMINAL TYPE 5 & 5A | | | |
| STANDARD 631026-02 | | | |
| SCALE: | SHEET NO. OF SHEETS | STA. TO STA. | |

| | | | |
|---|---------|--------|-----------------|
| * DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016 | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEET NO. |
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| CONTRACT NO. 66E22 | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | |

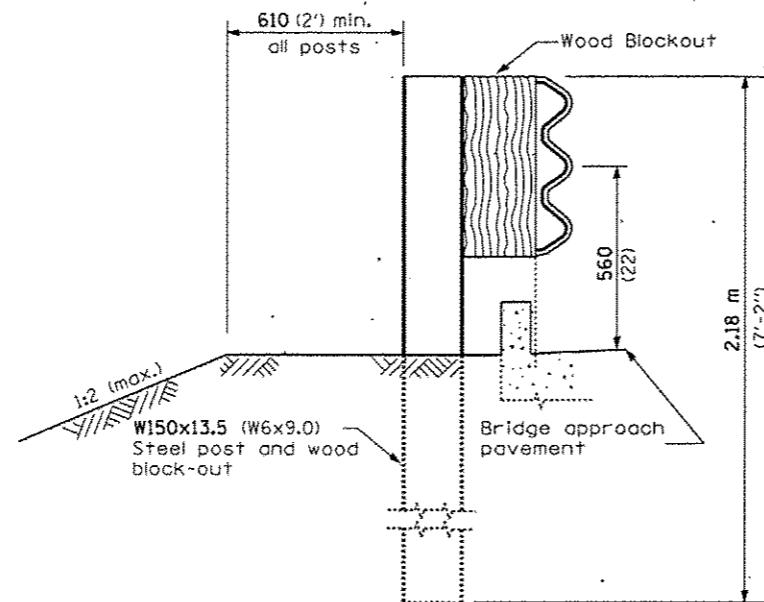
PARAPET OR WINGWALL



PLAN



ELEVATION



SECTION A-A

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

Thrie beam rail shall be bolted to block-out at all posts.

See Standard 420401 for details of bridge approach pavement.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016

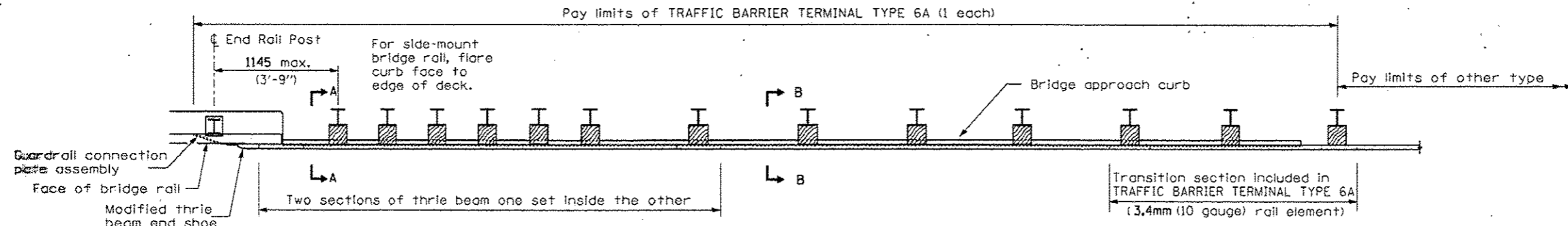
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| PLOT SCALE * 5000.0000 1/1 in. | | CHECKED - | REVISED - |
| PLOT DATE * 3/2/2015 | | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

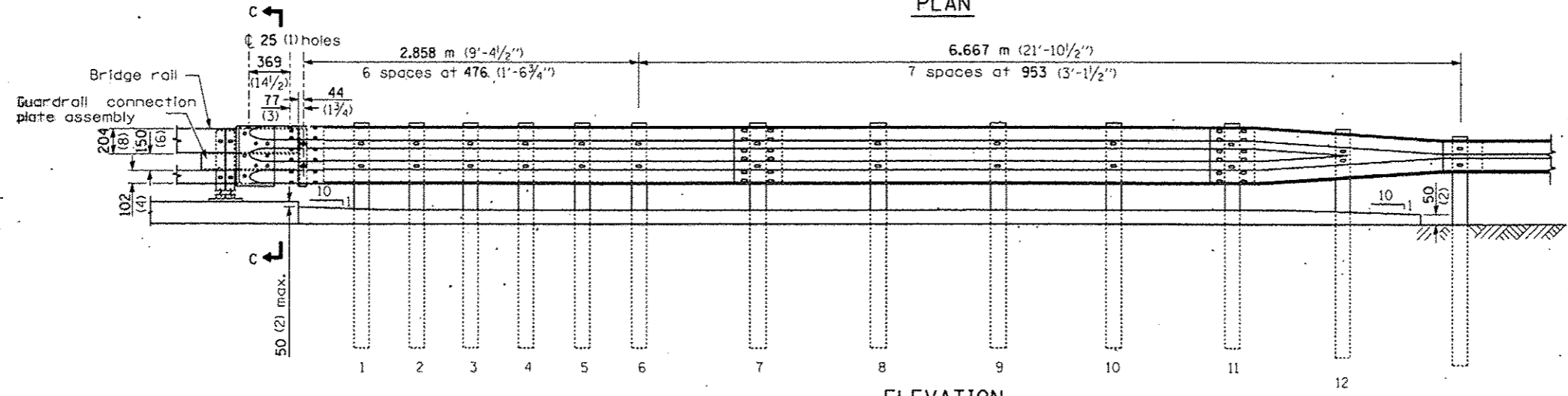
PRE-MGS EFFECTIVE 4-1-06
TRAFFIC BARRIER TERMINAL, TYPE 6
STANDARD 631031-05

Sheet 1 of 3

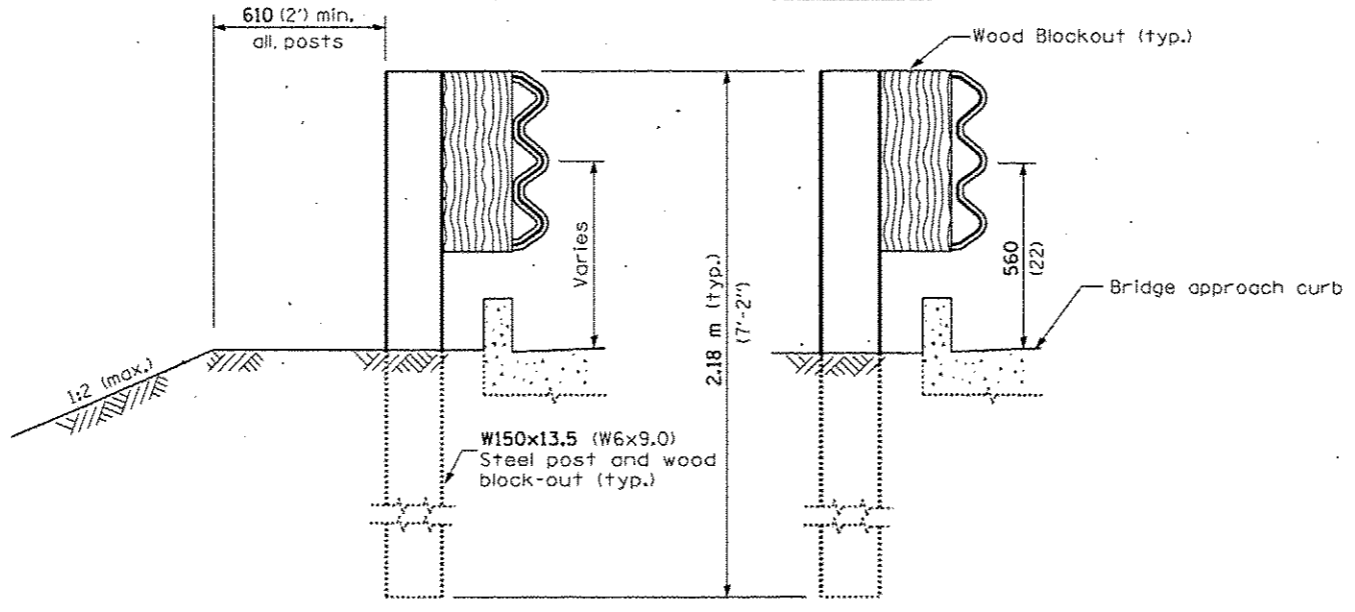
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|--------|-----------------------------|--------------------------|---|---------|--------------------|--------------|-----------|
| SCALE: | SHEET NO. ___ OF ___ SHEETS | STA. _____ TO STA. _____ | F.A. RTE. Y&B. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | | | | 43 | 33 |
| | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | CONTRACT NO. 66E22 | | |



PLAN



ELEVATION



SECTION A-A

SECTION B-B

GENERAL NOTES

This standard shows attachment to curb mounted bridge rail. Attachment to side mounted bridge rail is similar.

See Standard 630001 for details of guardrail not shown.

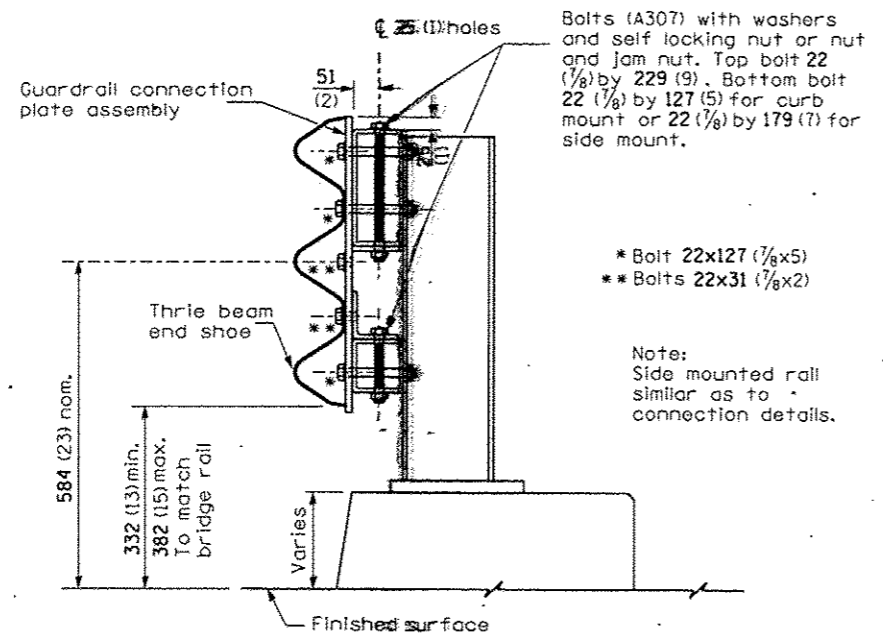
Thrie beam rail shall be bolted to block-out at all posts.

See Standard 420401 for details of bridge approach pavement.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

| | | | | | | | | | | | |
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| | | DATE - | REVISED - | | | | CONTRACT NO. 66E22 | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | |

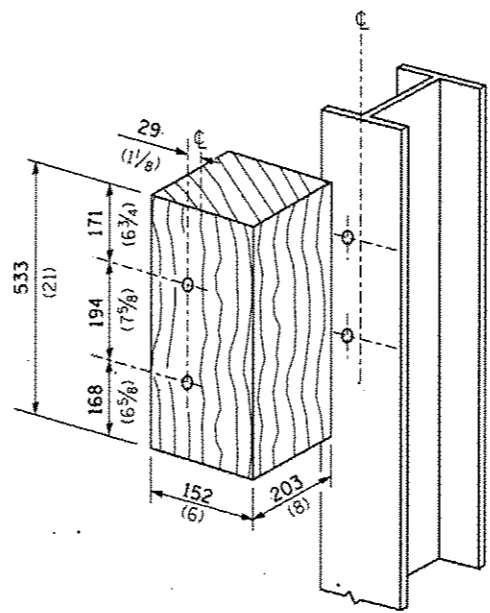


Bolts (A307) with washers and self locking nut or nut and jam nut. Top bolt 22 (7/8) by 229 (9). Bottom bolt 22 (7/8) by 127 (5) for curb mount or 22 (7/8) by 179 (7) for side mount.

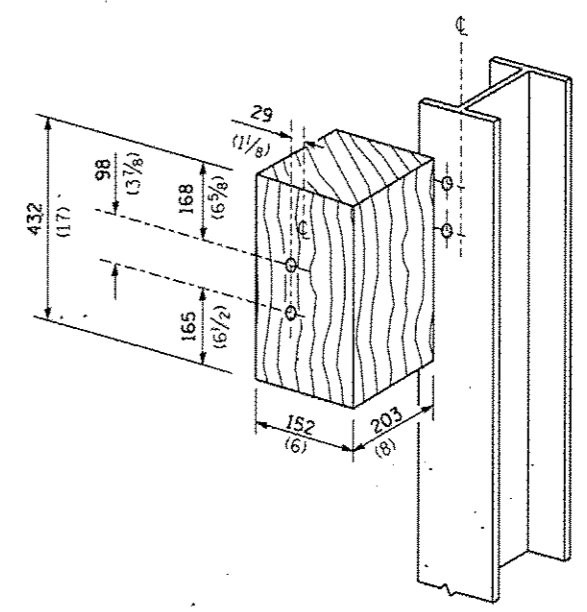
- * Bolt 22x127 (7/8x5)
- ** Bolts 22x31 (7/8x2)

Note:
Side mounted rail similar as to connection details.

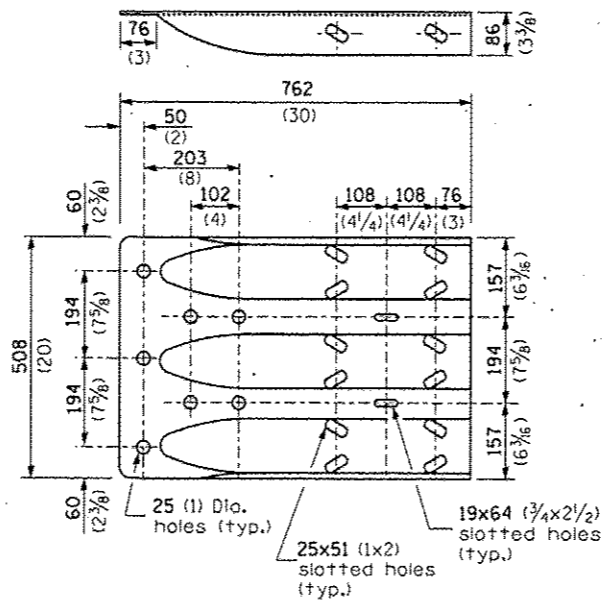
SECTION C-C



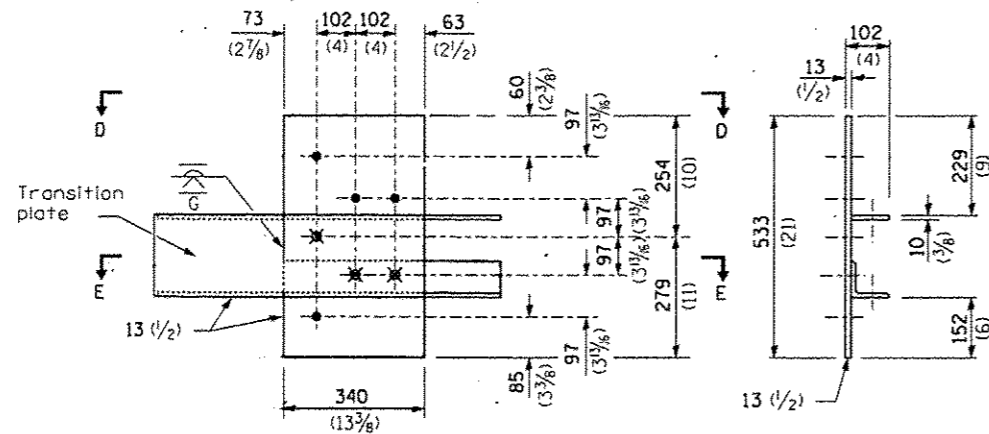
POSTS 1-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL



MODIFIED THRIE BEAM END SHOE DETAIL

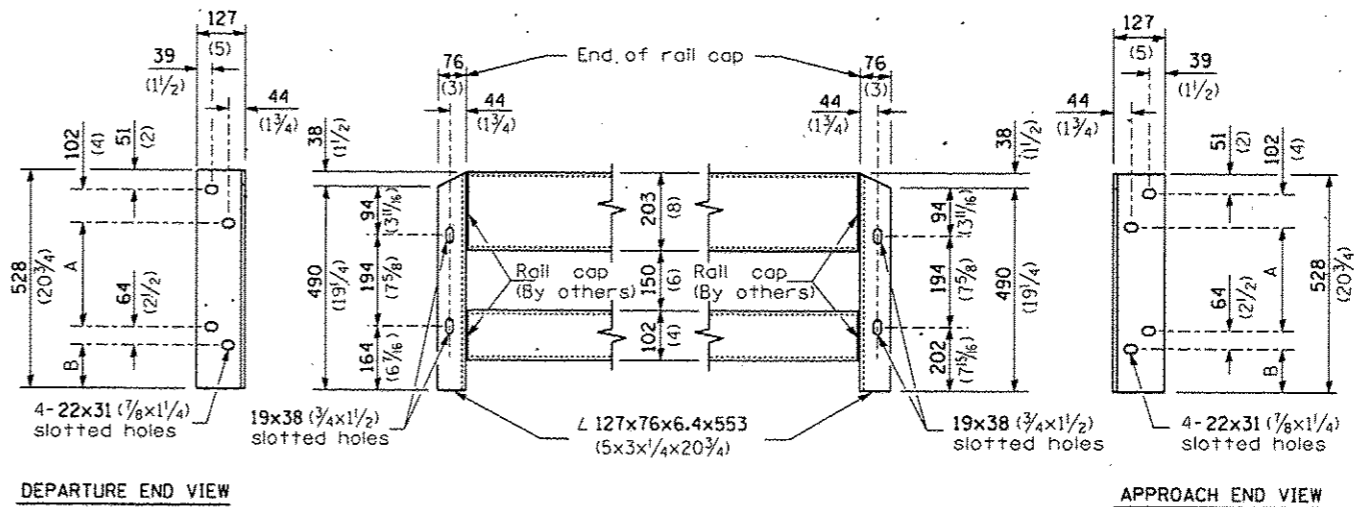
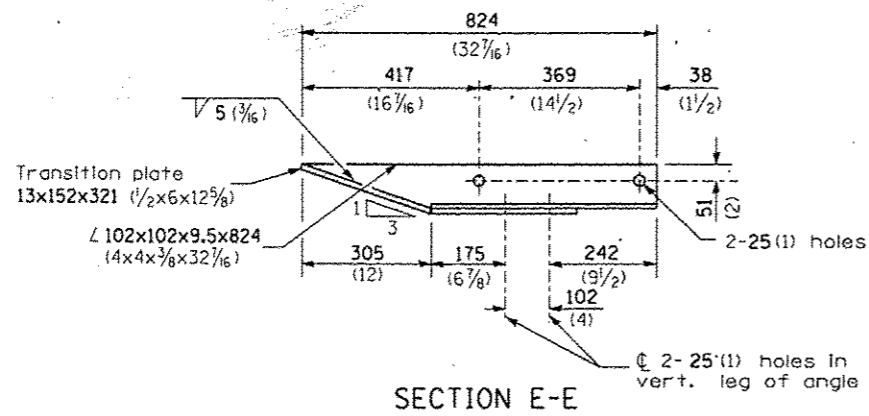
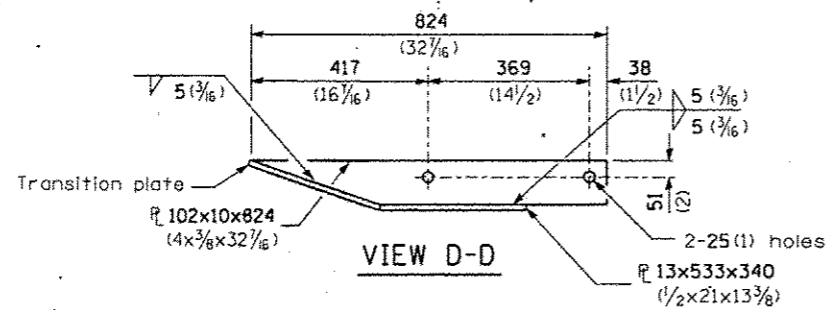


- \varnothing 4-25 (1) holes for 22 (7/8) H.S. bolts and nuts
- ✕ Drill and tap 3 holes for 22 (7/8) H.S. bolts.

LEGEND

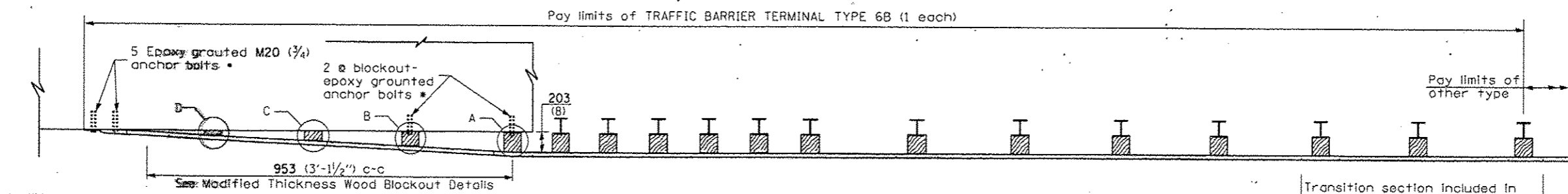
| Dimensions | A | B |
|-----------------------|-------------|------------|
| For Curb Mounted Rail | 222 (8 3/4) | 89 (3 1/2) |
| For Side Mounted Rail | 247 (9 3/4) | 64 (2 1/2) |

GUARDRAIL CONNECTION PLATE ASSEMBLY DETAILS
(Mirror for opposite end)



CONNECTION ANGLES

(Install angles to rail caps using 19 (5/8) washers and self-locking nuts or nuts and jam nuts, to be provided by others)

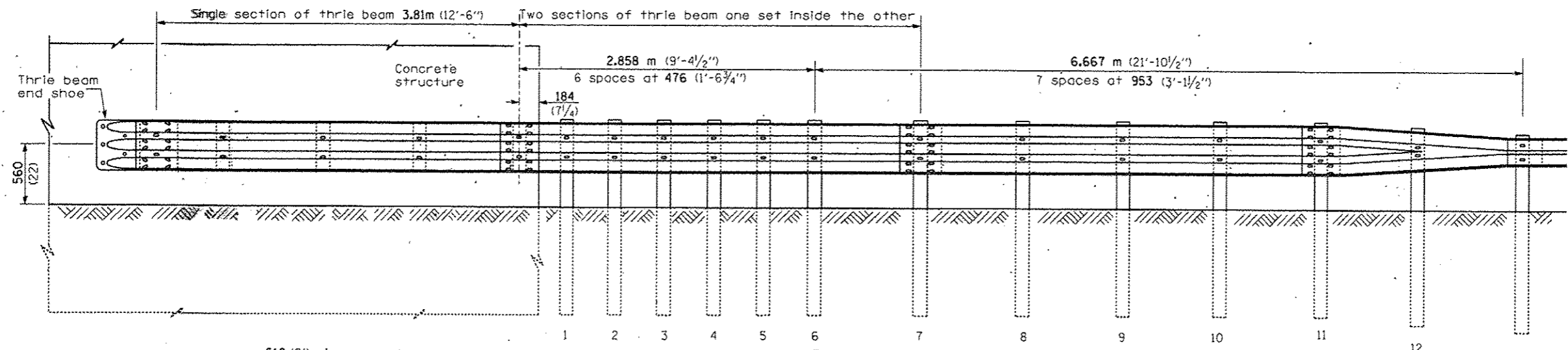


* With standard washers. After tightening, cut the anchor bolts flush with nuts, and damage the nut to prevent it from loosening.

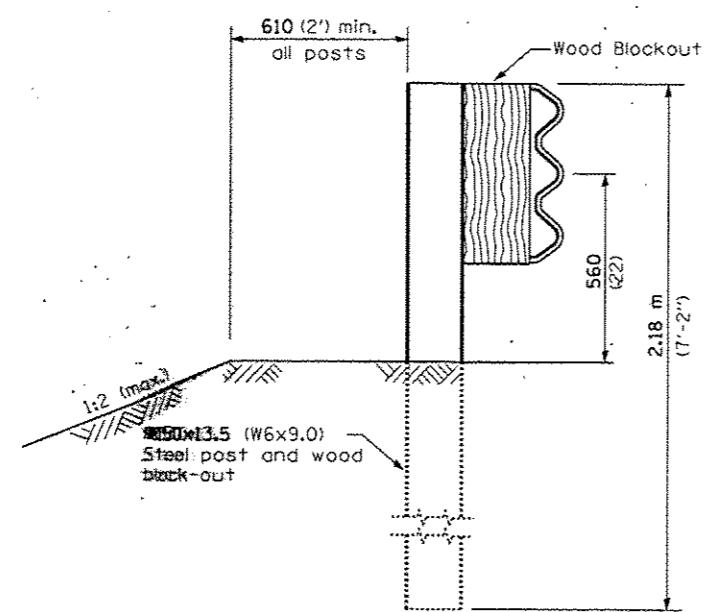
Note: See wood block details A, B, C, & D

PLAN

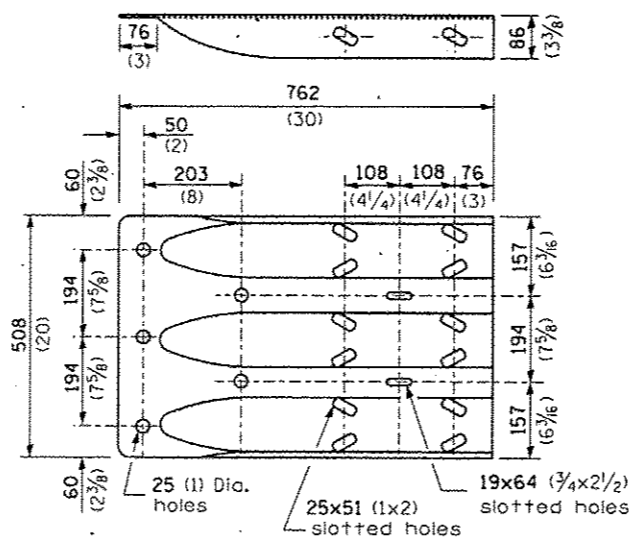
Transition section included in TRAFFIC BARRIER TERMINAL TYPE 6B (3.4mm (10 gauge) rail element)



ELEVATION



SECTION A-A



THRIE BEAM END SHOE DETAIL

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

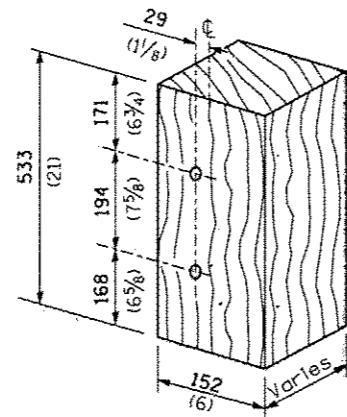
Thrie beam rail shall be bolted to block-out at all posts.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

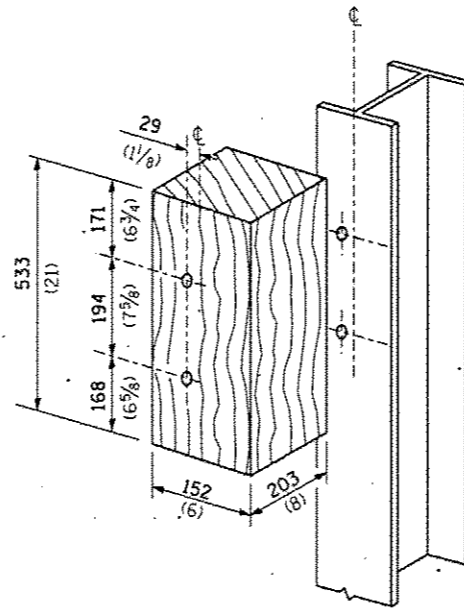
All dimensions are in millimeters (Inches) unless otherwise shown.

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| Plot Scale = 5000.0000 1/16" = 1' | DATE | CHECKED | REVISED | | | V&B. | V&B. | V&B. | 43 | 39 | |
| Plot Date = 3/2/2015 | DATE | CHECKED | REVISED | | | Sheet 1 of 2 | | CONTRACT NO. 66E22 | | | |
| | | | | | | SCALE: _____ SHEET NO. _____ OF _____ SHEETS | | STA. _____ TO STA. _____ | | FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT | |

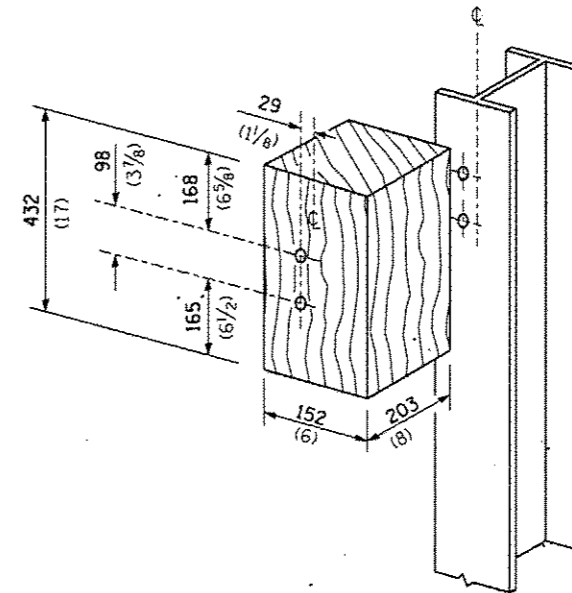
DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016



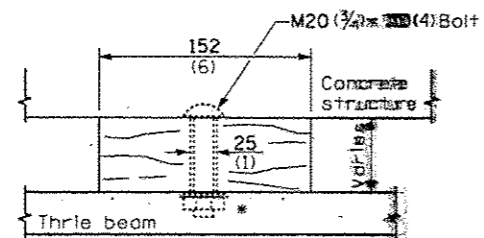
MODIFIED THICKNESS WOOD BLOCKOUT DETAIL



POSTS 1-11 WOOD BLOCKOUT DETAIL

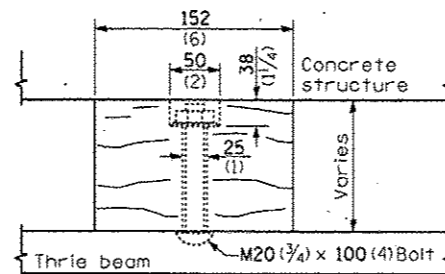


POST 12 WOOD BLOCKOUT DETAIL

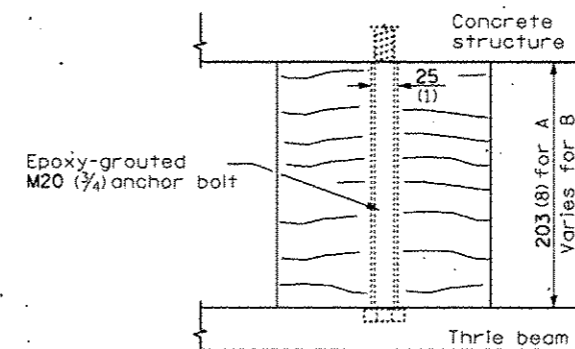


WOOD BLOCKOUT D

Bolt to thrie beam with M20 (3/4) by 100 (4) bolt, washer & nut. Reverse direction of insertion. *



WOOD BLOCKOUT C



WOOD BLOCKOUT A & B

| | | | |
|---------------------------------------|------------------------------|------------|-----------|
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| | PLOT SCALE = 5000.0000' / 1" | CHECKED - | REVISED - |
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

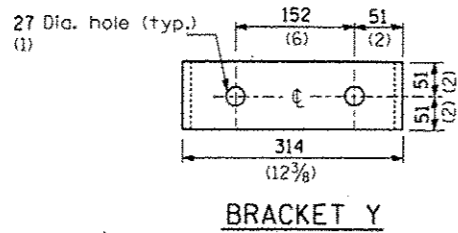
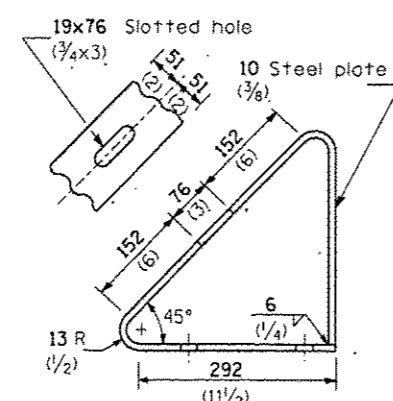
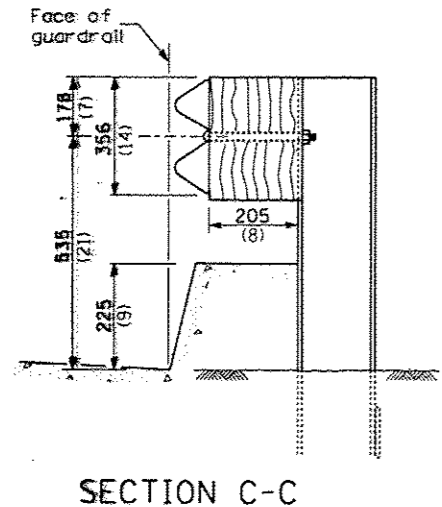
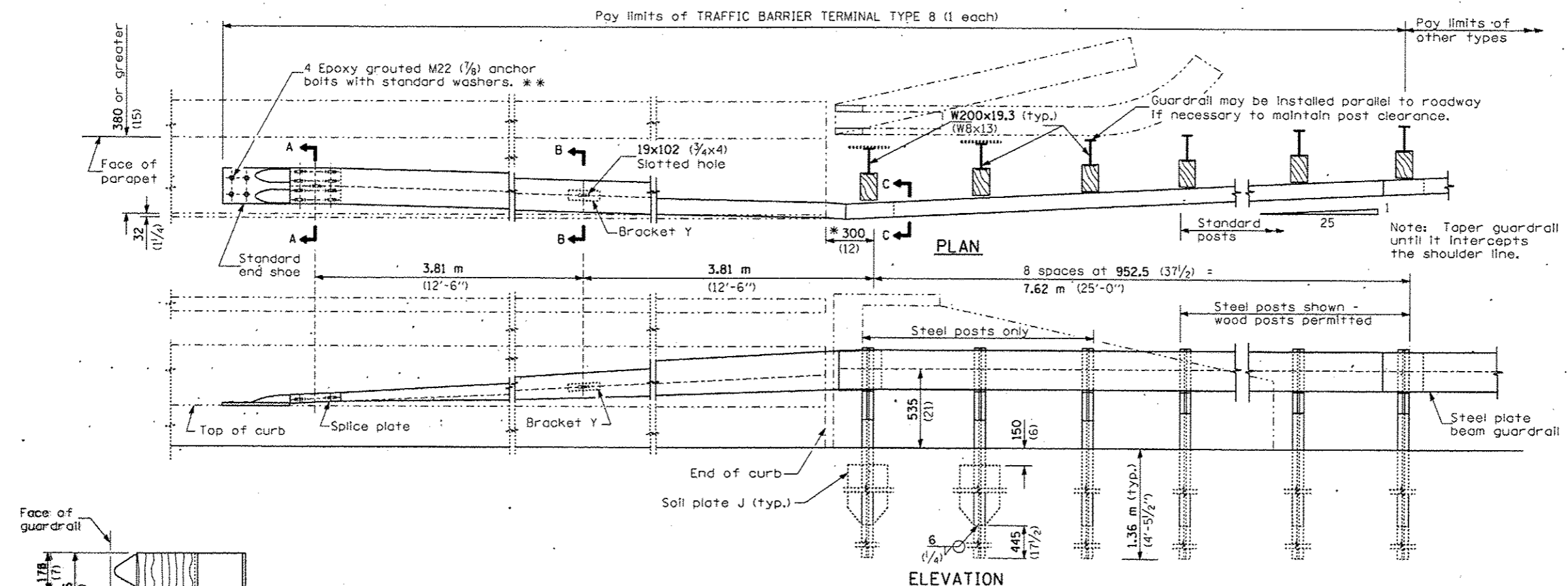
PRE-MGS EFFECTIVE 4-1-06
TRAFFIC BARRIER TERMINAL, TYPE 6B
STANDARD 631033-01

Sheet 2 of 2

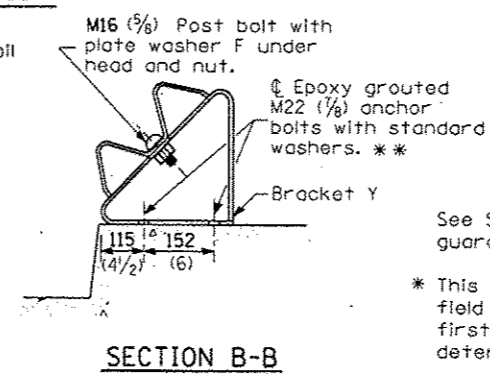
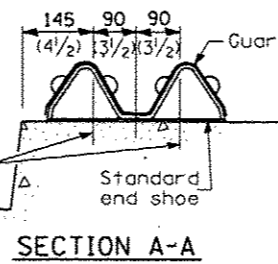
SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------|--------------------|-----------|
| VBR. | * | VBR. | 43 | 40 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 66E22 | |



4 Epoxy grouted M22 (7/8) anchor bolts with standard washers. **



GENERAL NOTES

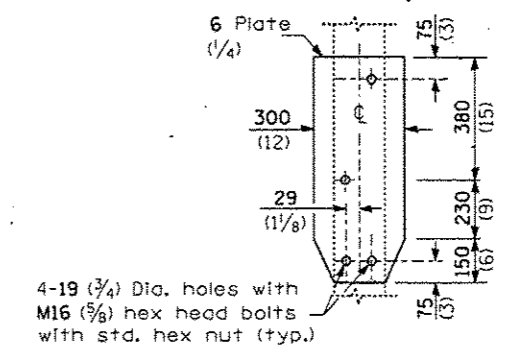
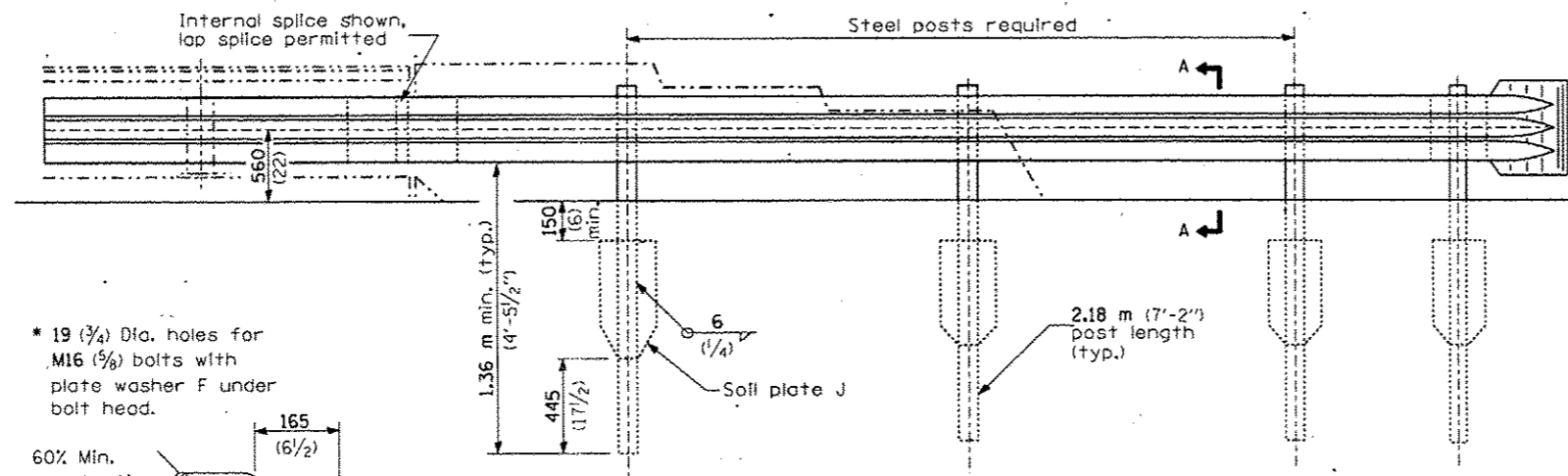
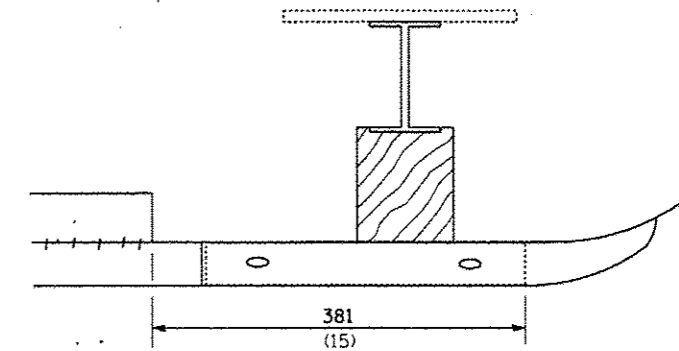
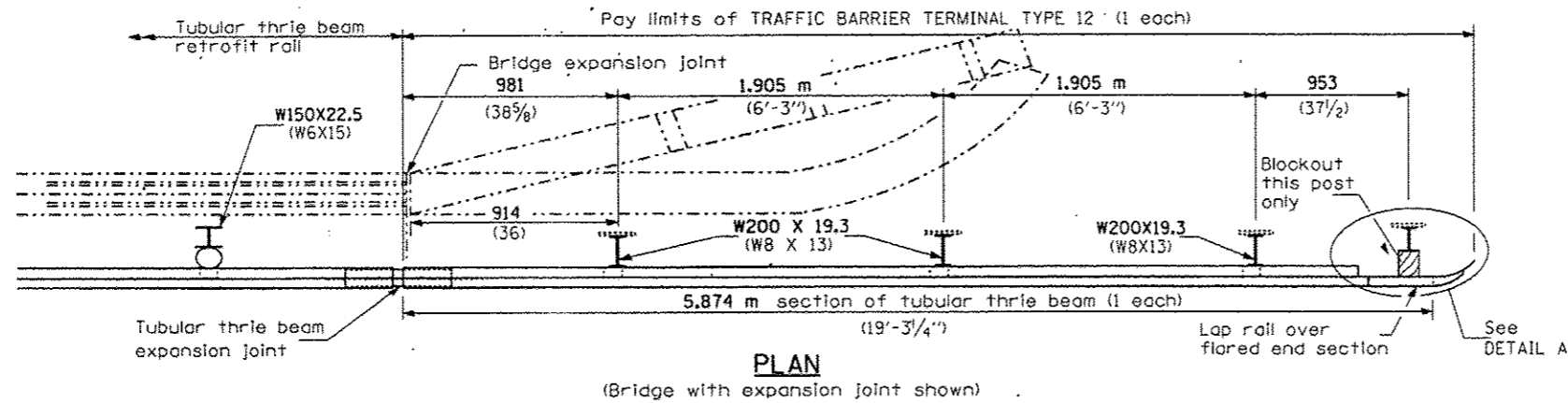
See Standard 630001 for details of guardrail not shown.

* This dimension may be increased to fit field conditions. This post shall be located first. The layout of the terminal shall be determined by its location.

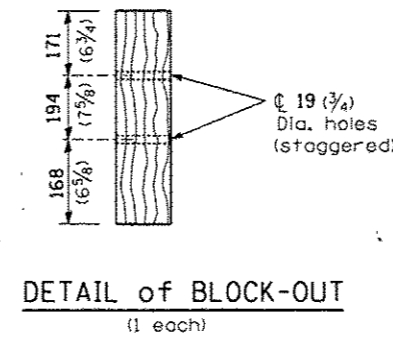
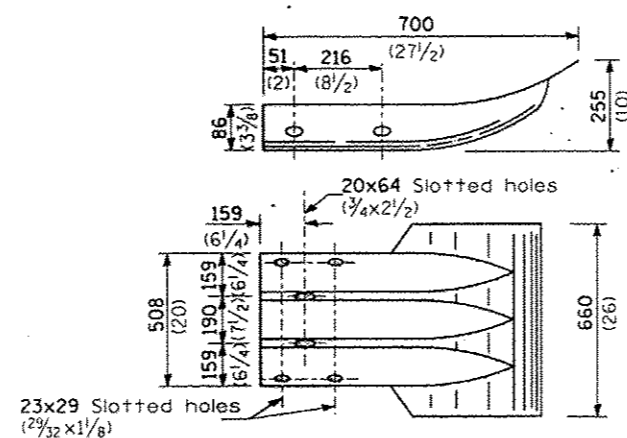
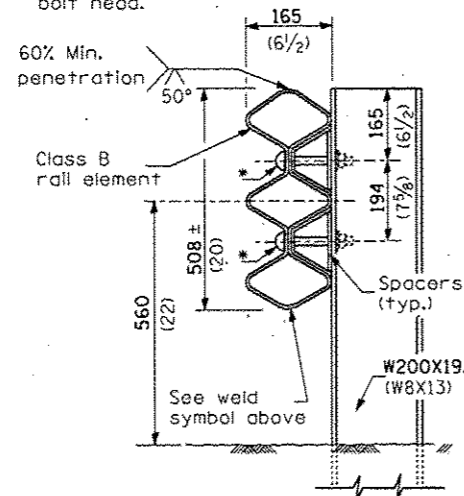
** After tightening, cut the anchor bolts flush with nuts, and damage the bolt head to prevent them from loosening.

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

| | | | | | | | | | |
|---|----------------------|------------------|----------------|---|--|---|---------|--------------------|------------|
| FILE NAME: \\pwork\pwork\pietschtr\030222\030222-22-shc-details.dgn | USER NAME: pietschtr | DESIGNED: _____ | REVISED: _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PRE-MGS EFFECTIVE 4-1-06 TRAFFIC BARRIER TERMINAL TYPE 8 STANDARD 631036-04 | • DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 2016 | | | |
| PLOT SCALE: 5000.0000 / 1 in. | CHECKED: _____ | REVISIONS: _____ | F.A. RTE.: | | | SECTION: | COUNTY: | TOTAL SHEETS: | SHEET NO.: |
| PLOT DATE: 3/2/2015 | DATE: _____ | REVISIONS: _____ | VAR.: | | | VAR.: | VAR.: | 43 | 41 |
| | | | | | | SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____ | | CONTRACT NO. 66E22 | |
| | | | | | | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT | | | |



* 19 (3/4) Dia. holes for M16 (5/8) bolts with plate washer F under bolt head.



GENERAL NOTES

See Standard 509001 and 630001 for details of guardrail elements not shown.

The type 12 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 509001.

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

| | | | | | | | | | | |
|---|----------------------|------------|---|---|---|-----------|---------|--------|--------------|-----------|
| FILE NAME * | USER NAME - plotachr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PRE-MGS EFFECTIVE 4-1-06 TRAFFIC BARRIER TERMINAL TYPE 12 STANDARD 631056-01 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| en:\p-work\p\dot\plotachr\d0426218\030622-sht-details.dgn | DRAWN - | REVISED - | VAB. | | | | VAB. | 43 | 43 | |
| PLOT SCALE = 5000.0000 / in. | CHECKED - | REVISED - | CONTRACT NO. 66E22 | | | | | | | |
| PLOT DATE = 3/2/2015 | DATE - | REVISED - | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |