FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

VARIOUS EXPRESSWAYS AND ARTERIAL HIGHWAYS — SOUTHERN PART, DISTRICT ONE ROUTE:

GUARDRAIL REPAIR

SECTION: 2005-026 GRR

COUNTY: VARIOUS DISTRICT WIDE

C-91-213-05

CONTRACT 62960 D-91-213-05

THIS SECTION IS LOCATED ALONG VARIOUS ROUTES WITHIN COOK, KANE, DUPAGE AND WILL COUNTIES.

SEE LOCATION MAPS SHEETS 4 THRU 7

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 62960

F. A. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET
VAR.	2005-026	GRR	*	18	2
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 $\ensuremath{ imes}$ WILL, KANE, DU PAGE AND COOK

CONTRACT 62960

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- 1. TITLE SHEET
- 2. INDEX OF SHEETS LIST OF APPLICABLE STATE STANDARDS GENERAL NOTES
- 3. SUMMARY OF QUANTITIES
- 4. COOK COUNTY LOCATION MAP
- 5. KANE COUNTY LOCATION MAP
- 6. DUPAGE COUNTY LOCATION MAP
- 7. WILL COUNTY LOCATION MAP
- 8. TYPICAL DETAILS FOR STEEL PLATE BEAM **GUARDRAIL ANCHORAGE REPAIR**
- 9. TYPICAL DETAIL FOR GUARDRAIL ANCHOR BLOCK REPAIR
- 10. TYPICAL DETAIL TO ANCHOR STEEL PLATE BEAM **GUARDRAIL ON CONCRETE**
- 11. DETAIL FOR CENTER LONGITUDINAL GUARDRAIL JOINT
- 12. DETAIL OF STEEL BEAM GUARDRAIL SPECIAL
- 13. DETAIL OF GUARDRAIL SUPPORT AND END ANCHORAGE
- 14. DETAIL OF THRIE-BEAM GUARDRAIL WITH MODIFIED OFFSET BLOCK
- 15. STEEL PLATE BEAM GUARDRAIL STEEL BLOCK-OUT DETAIL
- 16. CURB REMOVAL (PARTIAL) AND SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL
- 17. STEEL BRIDGE RAIL DETAIL
- 18. TRAFFIC CONTROL DETAIL FOR SHOULDER CLOSURE AND PARTIAL RAMP CLOSURE

STATE STANDARDS

630001-06 701006-02 701411-03 630301-03 701011-01 701501-03 631006-03 701101-01 701606-04 631011-02 701201-02 701701-04 631026-02 701301-02 701801-03 631031-05 701400-02 702001-06 631036-04 701401-03 720011 635006-02 701406-04 BLR-23-1 635011-01

GENERAL NOTES

ALL WORK IS TO BE REPLACED IN KIND OR AS INDICATED ON THE CONTRACT QUANTITY SHEET.

GUARDRAIL WORK WILL INCLUDE ALIGNMENT AS NECESSARY TO RESTORE THE RAIL TO THE ORIGINAL CONDITIONS.

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-

ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR; APPROPRIATE STANDARDS ARE HEREWITH ATTACHED (SEE COVER SHEET).

THE LIMITS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. THE REPLACEMENT PARTS AND THE QUANTITIES INDICATED ARE WITHIN THESE LIMITS AS MARKED.

REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY

GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, PLAN SHEETS AND STATE STANDARDS

SCALE: NONE

DRAWN BY R.F.L.

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONTRACT MAINTENANCE	N
X0301763	FURNISHING AND INSTALLING TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	2	1	
63001105	FURNISHING AND INSTALLING CUARDRAIL BLOCKS	EACH	2	1020	
63001205	FURNISHING AND INSTALLING GUARDRAIL CHANNEL	EACH		1020	
63001305	FURNISHING AND INSTALLING RAIL ELEMENT PLATES	EACH	1500	1760	
63300800	GUARDRAIL POST VERTICAL ADJUSTMENT	EACH	1600	1360	
50901001	STEEL BRIDGE RAIL	FOOT	<u>75</u>	64	
78201000	TERMINAL MARKERS-DIRECT APPLIED	EACH	150	<u>125</u>	·
78200405	CUARDRAIL MARKERS	EACH	6	5	
Z0025200	FURNISHING AND INSTALLING CONNECTING END SECTION	EACH	4 <u>66</u>	415	
Z0025600	FURNISHING AND INSTALLING RETURN END SECTION	EACH	<u>F</u>	2	
Z0025800	FURNISHING AND INSTALLING SINGLE END SECTION	EACH	5	4	
	THE THE STROLL LINE SECTION	EACH	6	5	
Z0026200	FURNISHING AND INSTALLING TRAFFIC BARRIER TERMINAL TYPE 2	EACH	7	6	
Z0026700	FURNISHING AND SETTING STEEL POSTS	EACH	7	<u>6</u>	
Z0026800	FURNISHING AND SETTING STEEL POSTS (MODIFIED)	EACH	15		N =
Z0026900	FURNISHING AND SETTING STEEL POSTS (SPECIAL)	EACH		7	
Z0051400	REMOVING AND RESETTING POSTS	EACH	150	128	
Z0052100	REPAIR STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	100	87,5	
Z0052200	REPAIR STEEL PLATE BEAM GUARD RAIL, TYPE C	FOOT	25		
Z0052550	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH		12.5	
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL TYPE 2	EACH	<u>2</u>	<u>l</u>	
Z0052900	REPAIR TRAFFIC BARRIER TERMINAL TYPE 4	EACH	18	15	
Z0053000	REPAIR TRAFFIC BARRIER TERMINAL TYPE 5	EACH	7	2	
Z0053200	REPAIR TRAFFIC BARRIER TERMINAL TYPE 6	EACH	4	3	
Z0053400	REPAIR TRAFFIC BARRIER TERMINAL TYPE 8	EACH	1	3	
X0300501	FURNISHING AND INSTALLING TRAFFIC BARRIER TERMINAL TYPE 1, NOSE	EACH	16	17	
XZ190600	FURNISHING AND INSTALLING TRAFFIC BARRIER TERMINAL TYPE 6	EACH	16	13	
X0321152	FURNISHING AND INSTALLING RADIUS RAIL ELEMENT PLATES	EACH	40	35	
XZ190500	FURNISHING AND INSTALLING TRAFFIC BARRIER TERMINAL TYPE 5	EACH	2	35	
X0321562	FURNISHING AND INSTALLING TRAFFIC BARRIER TERMINAL TYPE 3 SPECIAL	EACH			
X0321563	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL	EACH	3	170	
X0321564	REPAIR TRAFFIC BARRIER TERMINAL TYPE 3 SPECIAL	EACH	7	170	
X0322240	FURNISHING AND SETTING THRIE-BEAM POSTS	EACH		6	
X0322241	FURNISHING AND INSTALLING THRIE-BEAM RADIUS ELEMENT PLATES	EACH	4	3	
X0320619	FURNISHING AND INSTALLING THRIE-BEAM GUARDRAIL ELEMENT PLATES	EACH	4	3	
X0322242	FURNISHING AND INSTALLING THRIE-BEAM MODIFIED BLOCKS	EACH	4	<u>_</u> <u>_</u>	
X0322451	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - POST		200		
X0322452	REPAIR TRAFFIC BARRIER TERMINAL TYPE I SPECIAL - RAIL ELEMENT PLATE	EACH EACH	200	170	
X0322603	FURNISHING AND INSTALLING TRAFFIC BARRIER TERMINAL TYPE 3 SPECIAL, NOSE	EACH	6 <u>0</u>	53	
44002300	CURB REMOVAL (PARTIAL)	FOOT	100	100	
X0301849	FURNISHING AND INSTALLING TRAFFIC BARRIER TERMINAL TYPE 1 , SPECIAL (TANGENT)	EACH	100	100	
X0301850	FURNISHING AND INSTALLING TRAFFIC BARRIER TERMINAL TYPE 1 , SPECIAL (FLARED)	EACH	32	<u> 30</u>	
63000000	STEAL PLATE BEAM GUARD RAIL, TYPE A	FOOT	6		
63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH			
63100045	TRAFFIC BARRIER TERMINAL TYPE 2		2		
Z0052400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	2	
		EACH	9	1	

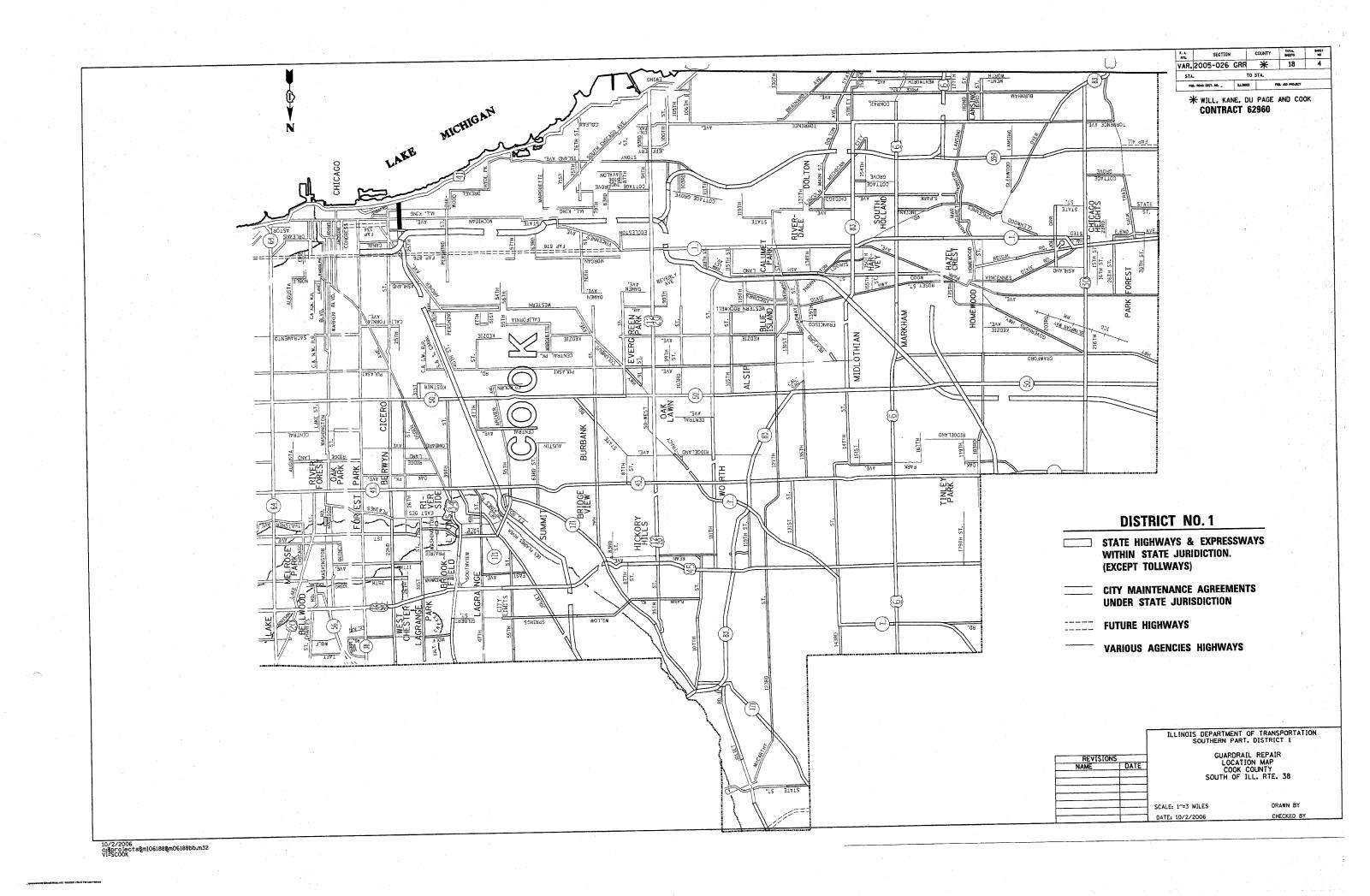
PTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO
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CONTRACT 62960

ILLINOIS DEPARTMENT OF TRANSPORTATION

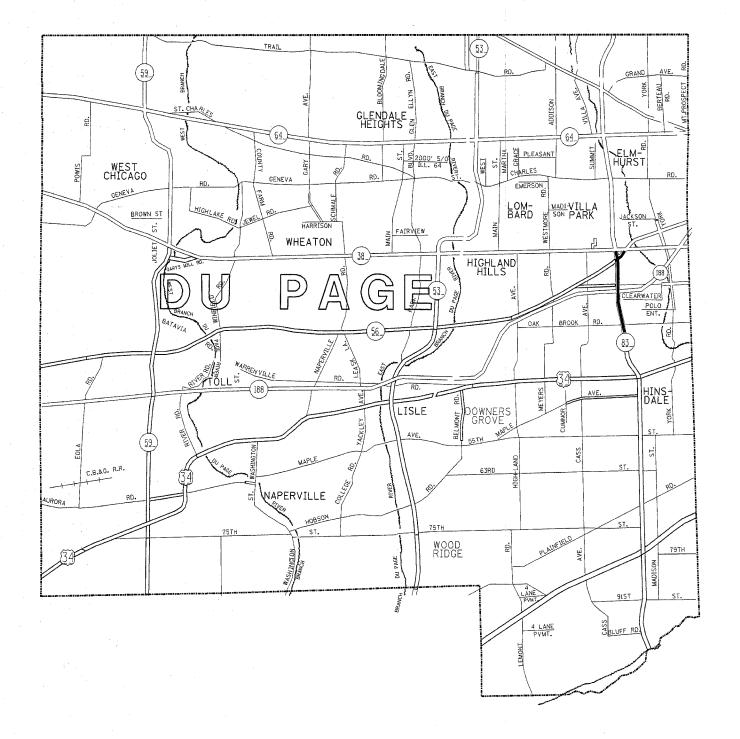
GUARDRAIL REPAIR SECTION 2005-026 GRR SOUTHERN PART, DISTRICT ONE SUMMARY OF QUANTITIES SHEET

SCALE: NONE



F. A SECTION COUNTY TOTAL MEET SO VAR2005-026 CRR # 18 5 FED. ROAD DIST. NO. ... ILLINOIS FED. AID PROJECT * WILL, KANE, DU PAGE AND COOK CONTRACT 62960 DUNDEE (Z) ELGIN WEST SOUTH DISTRICT NO. 1 ST. CHARLES EDGELAWN FUTURE HIGHWAYS C.OR ORAHORO **VARIOUS AGENCIES HIGHWAYS** BNAKER SUGAR GROVE RIPBURCER PLATO E (4) LILY ELBURN HAMPSHIRE .TZ ETATE DAUBERMAN MEREDITH PEPLOW BURLINGTON BIG ILLINOIS DEPARTMENT OF TRANSPORTATION SOUTHERN PART, DISTRICT 1 GUARDRAIL REPAIR LOCATION MAP KANE COUNTY SOUTH OF IL. ROUTE 38 SCALE: 1"=1.5 MILES DRAWN BY DATE: 10/2/2006 CHECKED BY 10/2/2006 c:Bbrojects&m106188&m06188bb.m32 VI=\$KANE

* WILL, KANE, DU PAGE AND COOK CONTRACT 62960



DISTRICT NO. 1

CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION

FUTURE HIGHWAYS

VARIOUS AGENCIES HIGHWAYS

STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURIDICTION. (EXCEPT TOLLWAYS)

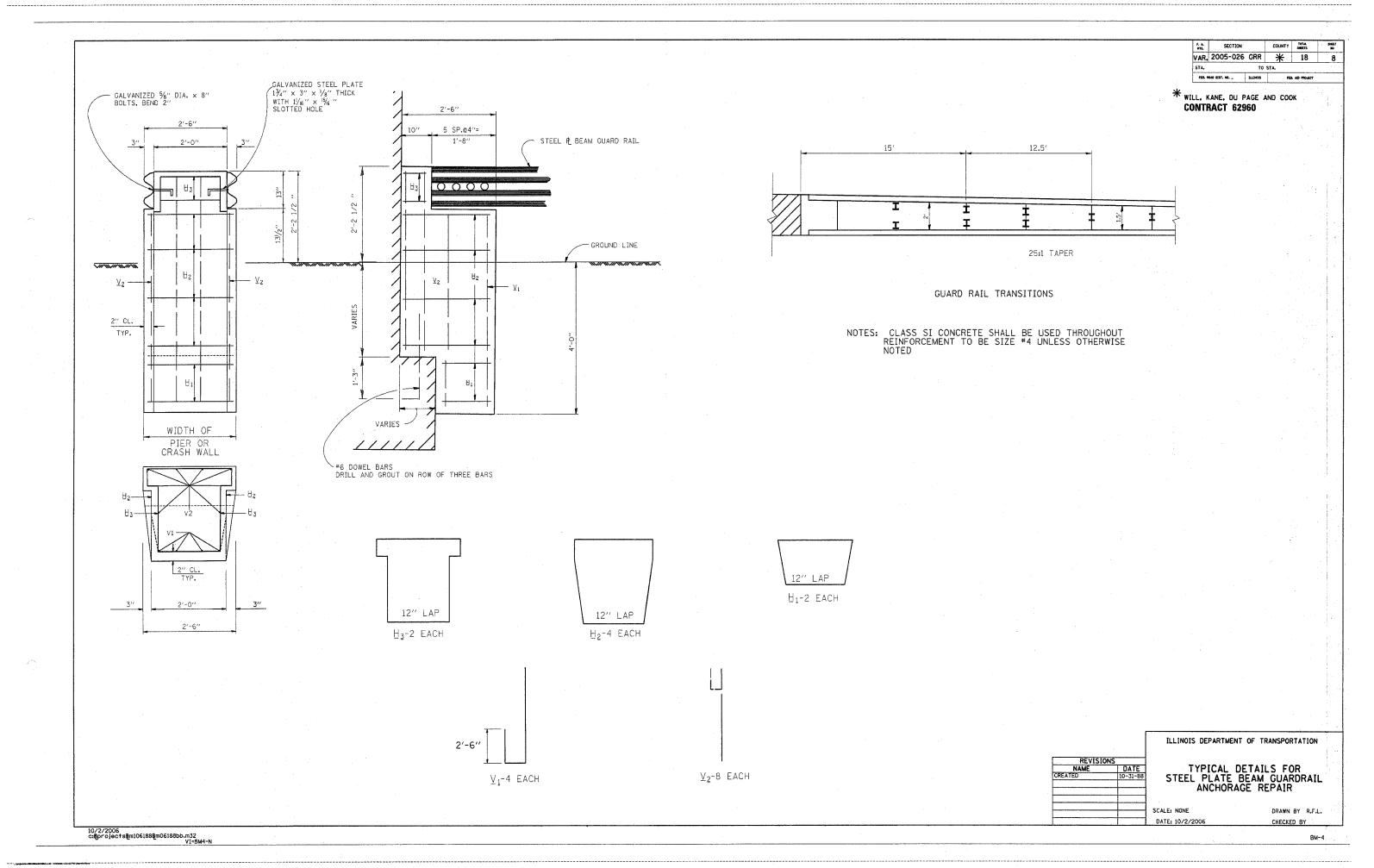
ILLINOIS DEPARTMENT OF TRANSPORTATION NORTHERN PART, DISTRICT 1

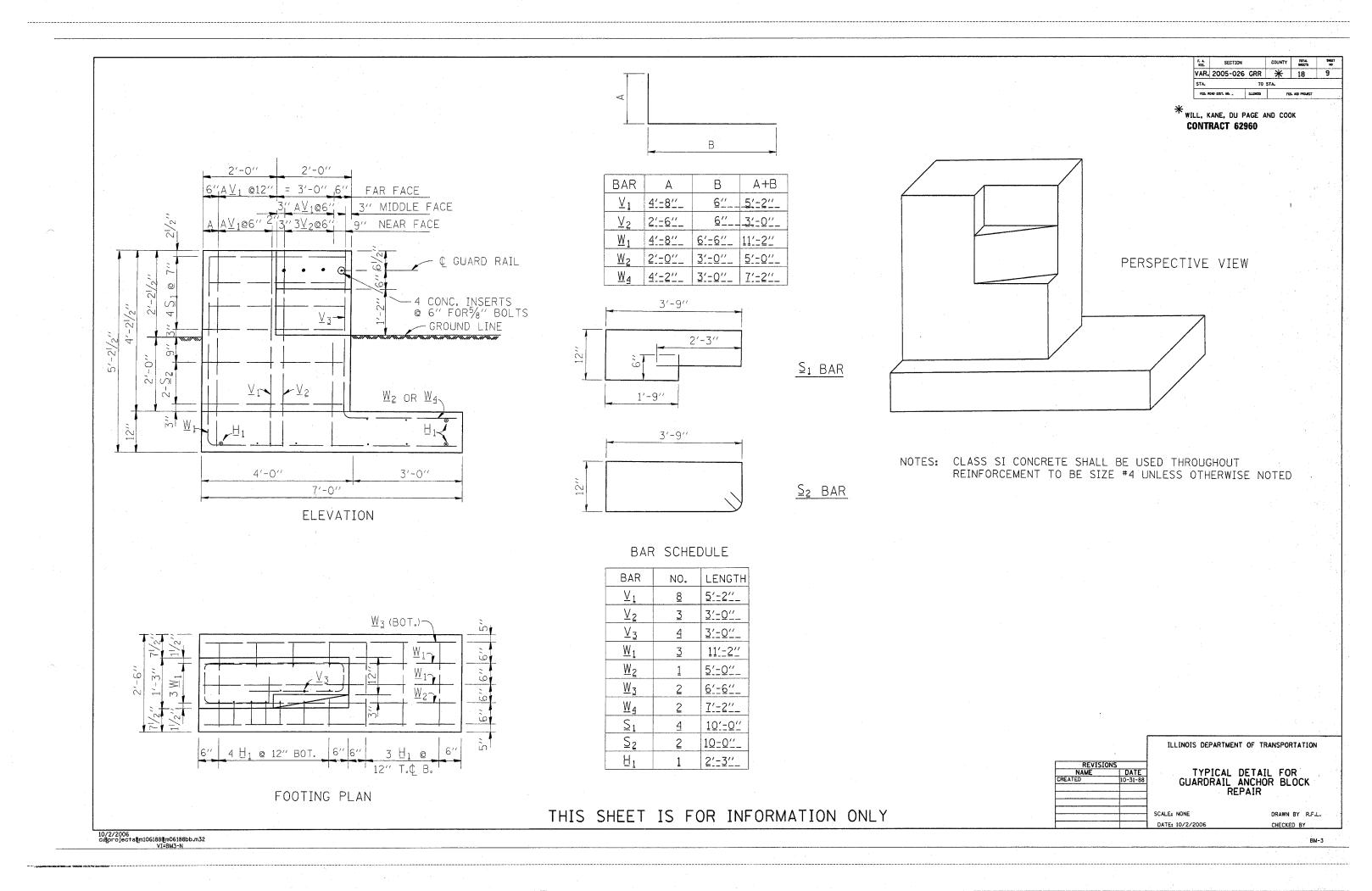
IONS GUARDRAIL REPAIR
DU PAGE COUNTY
SOUTH OF IL ROUTE 38

SCALE: 1"=1.5 MILES DATE: 10/2/2006

DRAWN BY CHECKED BY

SECTION COUNTY TOTAL SHEETS VAR. 2005-026 GRR * 18 7 STA. * WILL, KANE, DU PAGE AND COOK CONTRACT 62960 DISTRICT NO. 1 STATE HIGHWAYS & EXPRESSWAYS CANTON FARM WITHIN STATE JURIDICTION. (EXCEPT TOLLWAYS) CREST HILL CITY MAINTENANCE AGREEMENTS **UNDER STATE JURISDICTION** SHOREWOOD MOKENA FUTURE HIGHWAYS NEW LENOX **VARIOUS AGENCIES HIGHWAYS** FRANKFORT PRESTON HEIGHTS CRETE MONEE ELWOOD WILL GOODNOW BLODGETT ANDRES WILTON LORENZO NO BEECHER PEOTONE SYMERTON ILLINOIS DEPARTMENT OF TRANSPORTATION SOUTHERN PART, DISTRICT 1 GODLEY GUARDRAIL REPAIR LOCATION MAP WILL COUNTY SCALE: 1"=2 MILES DRAWN BY DATE: 10/2/2006 CHECKED BY 10/2/2006 c:#projects#m106188#m06188bb.m32 VI=WILL





F. A. RTE.	SECTION	4	COUNTY	TOTAL	SHEET NO
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* WILL, KANE, DU PAGE AND COOK CONTRACT 62960

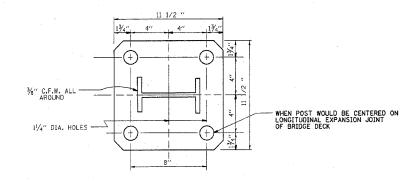
NOTE: FOR DETAILS OF RAIL ELEMENTS, RAIL SPLICING, NUT, BOLT AND SIDE VIEW OF RAIL, SEE STANDARD 630001

ALL WELDS SHALL BE GROUND SMOOTH

POSTS SHALL BE CUT AND WELDED TO THE BASE PLATE SO THAT THE POST WILL BE PLUMB WHEN ERECTED.

TWO PERCENT (22) OF ALL ANCHOR BOLTS SHALL BE TEST LOADED IN PLACE, MINIMUM TEST LOADE RUPS. IF ONE ANCHOR BOLT FALLS DURING THE TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED, TESTING EQUIPMENT SHALL BE BOLT COMPANIES.

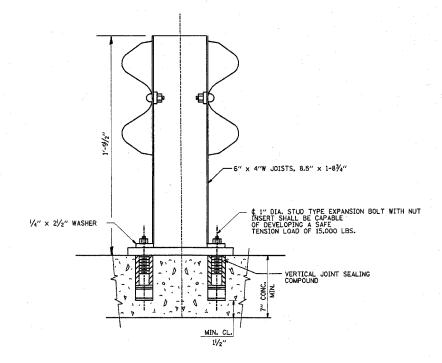
PROVIDE 1/8" AND 21/6" GALVANIZED SHIMS FOR 25% OF THE POSTS.



RAIL POST BASE P P 11/2" × 1/4" × 11/2"

NOTE:

ALL WELDS SHALL BE GROUND SMOOTH. POSTS SHALL BE CUT AND WELDED TO THE TO THE BASE PLATE SO THAT THE POSTS WILL BE PLUMB WHEN ERECTED.



ILLINOIS DEPARTMENT OF TRANSPORTATION

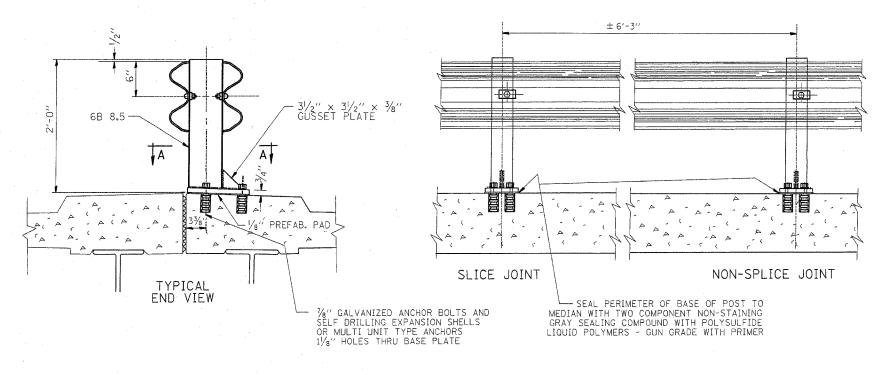
REVISIONS
NAME DATE
CREATED 10-31-88
STEEL PLATE BEAM GUARD RAIL
ON CONCRETE

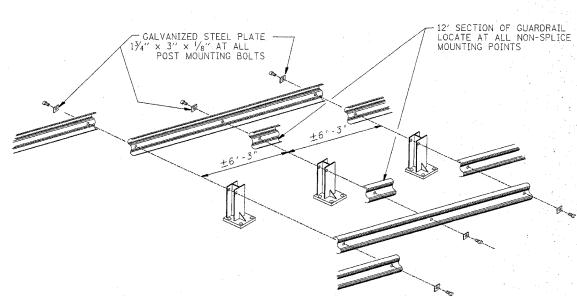
SCALE: NONE DATE: 10-31-88

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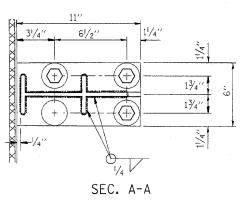
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₩ WILL, KANE, DU PAGE AND COOK CONTRACT 62960





NOTE: DIAMOND TIPPED DRILL SHALL BE USED TO DRILL THRU REINFORCEMENT BARS



NOTE:

POSTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM DESIGNATIONS A-123 AND A-385.

TWO PERCENT (2%) OF ALL ANCHOR BOLTS SHALL BETEST LOADED IN PLACE. MIN. TEST LOAD = 8 KIPS.

ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A-153.

FOR MATERIAL COMPOSITION OF PREFABRICATED PAD, SEE ARTICLE 54.9(F), (BEARING AND ANCHORAGE), OF THE STANDARD SPECIFICATIONS.

PROVIDE 1-1/8" AND 2-1/16" GALVANIZED STEEL SHIMS FOR 25% OF THE POSTS.

IF ONE ANCHOR BOLT FAILS DURING TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED. TESTING EQUIPMENT CAN BE OBTAINED FROM BOLT COMPANIES.

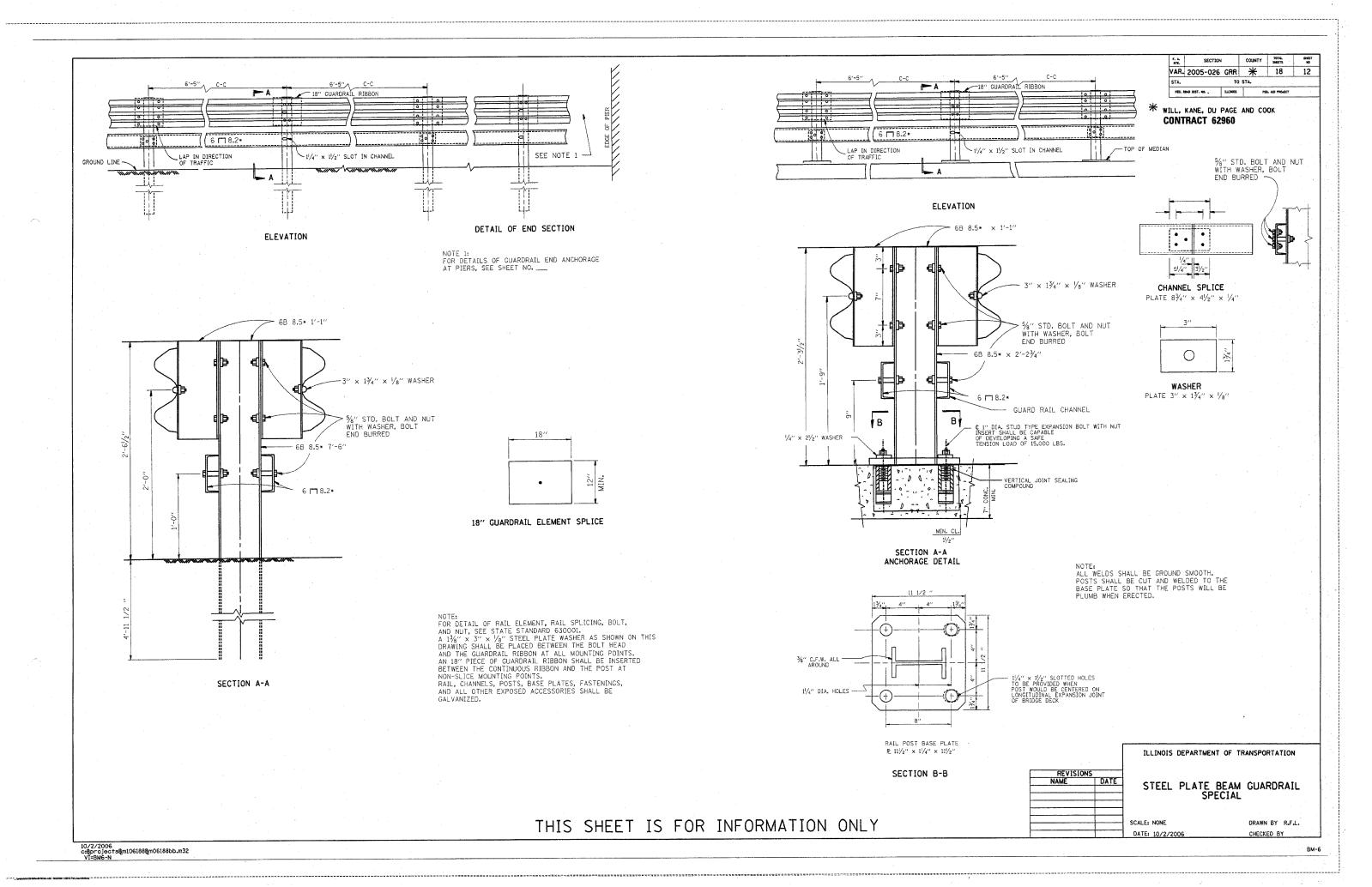
ILLINOIS DEPARTMENT OF TRANSPORTATION

DATE TYPICAL DETAIL FOR CENTER LONGITUDINAL JOINT GUARDRAIL JOINT

SCALE: NONE
DATE: 10/2/2006

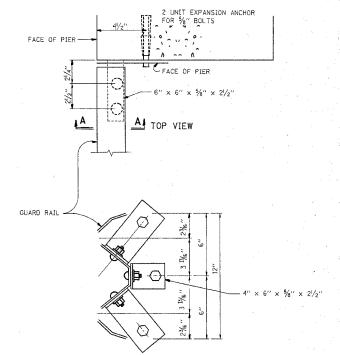
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THIS SHEET IS FOR INFORMATION ONLY



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* WILL, KANE, DU PAGE AND COOK CONTRACT 62960



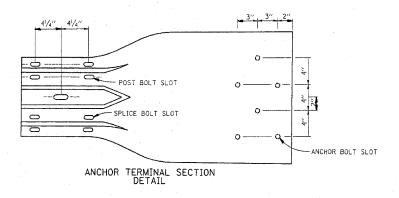
SECTION A-A SCALE 4"= 1" DETAIL OF CONNECTION OF GUARDRAIL TO SQUARE BRIDGE PIER OR FOUNDATION.

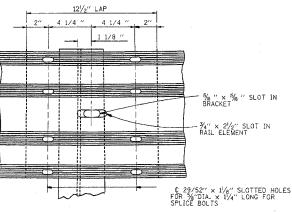
ILLINOIS DEPARTMENT OF TRANSPORTATION

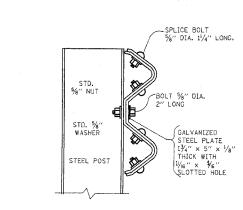
DETAIL OF GUARDRAIL SUPPORT AND END ANCHORAGE

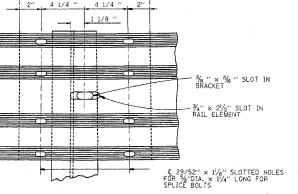
SCALE: NONE DRAWN BY R.F.L. DATE: 10/2/2006 CHECKED BY

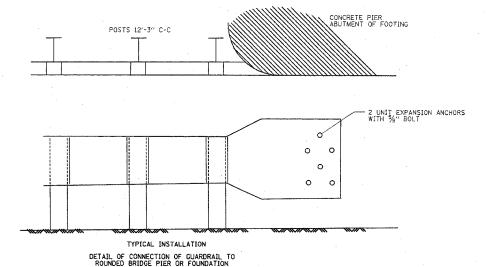
121/2" LAP 0 0



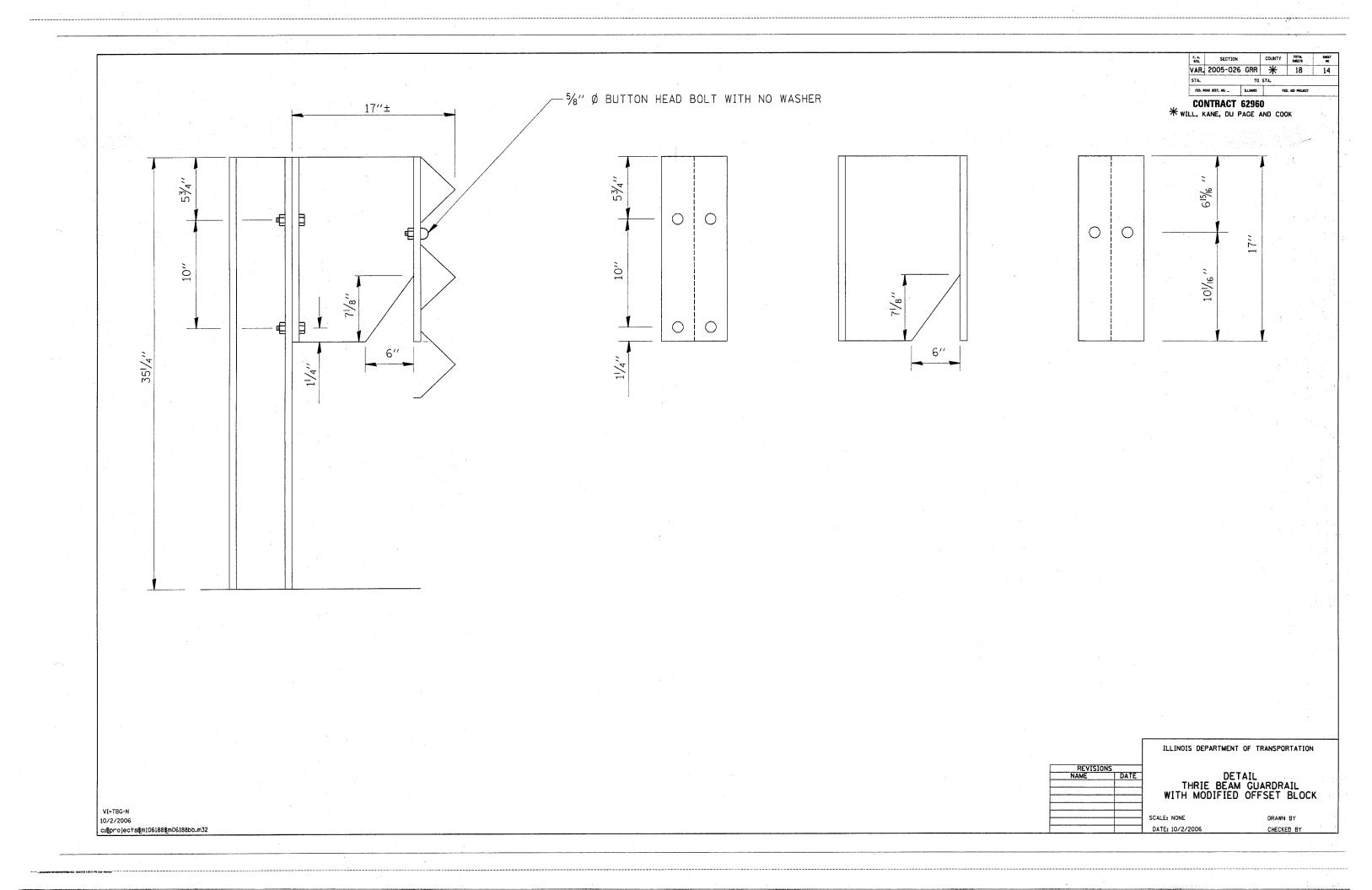




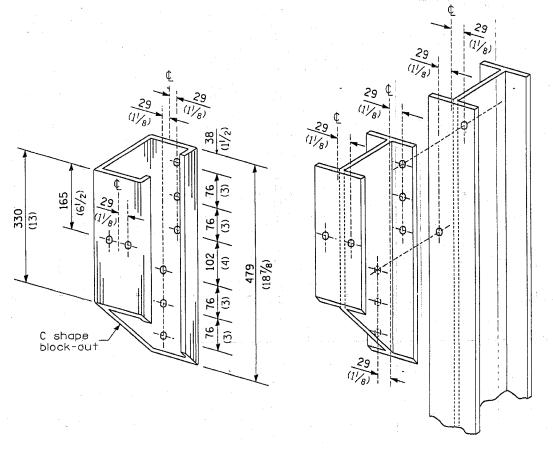




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-	F. A. SECTION	COUNTY	TOTAL SHEETS	SHEET NO
	VAR 2005-026 CRA	VAC	18	15
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1	FED. ROAD DIST NO 7 ILL	PED AID PROJECT		
	Contract 6296	0		



STEEL BLOCK-OUT AND STEEL POST DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS
NAME DATE
STEEL PLATE BEAM GUARDRAIL
STEEL BLOCK-OUT DETAIL

SCALE: VERT.

DRAWN BY DESIGNED BY CHECKED BY

VAR (205-074 GAL VARIOUS 18 16

STA. TO STA.

FEO. MOAD DIST NO 7 ILLIMOIS FED. AID PROJECT

CONSTRUCTOR CONTRACTOR OF THE CONTRACTOR OF T

DISTANCE FROM FACE OF RAIL 0.9 m (3'-0") DISTANCE FROM FACE OF RAIL -EDGE OF PAVEMENT --- GUARDRAIL AT 50:1 TAPER EDGE OF SHOULDER OR BACK OF CURB & GUTTER 1:10 MAX SLOPE-1.2 m (4ft.)-UNLESS OTHERWISE NOTED EDGE OF SHOULDER—WIDENING SHOULDER AT 50:1 TAPER-7.6 m (25';0") SHOULDER 3.8 m (12'-6") CURB & GUTTER 15.2 m (50'-0") 7.2 m (24'-0") TRANSITION TO EXISTING SHOULDER OR CURB AND GUTTER CURB REMOVAL (PARTIAL)
(DEPRESSED CURB FOR URBAN CROSS SECTION) 22.8 m (75'-0") SHOULDER 19.0 m (62'-6") CURB & GUTTER

HARF

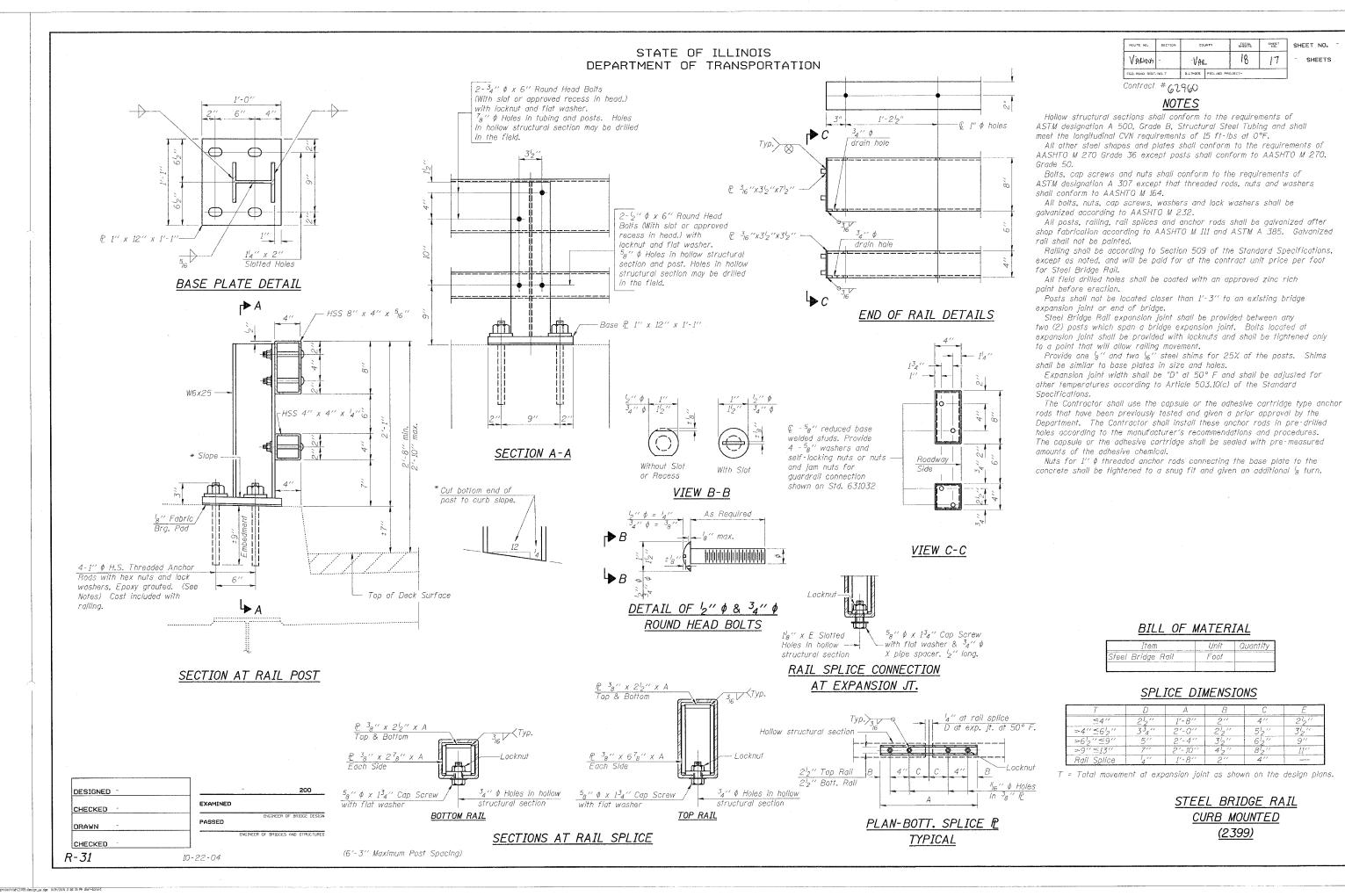
NOTE: SHOULDER WIDENING SHALL BE IN ACCORDANCE WITH STATE STANDARD 630301

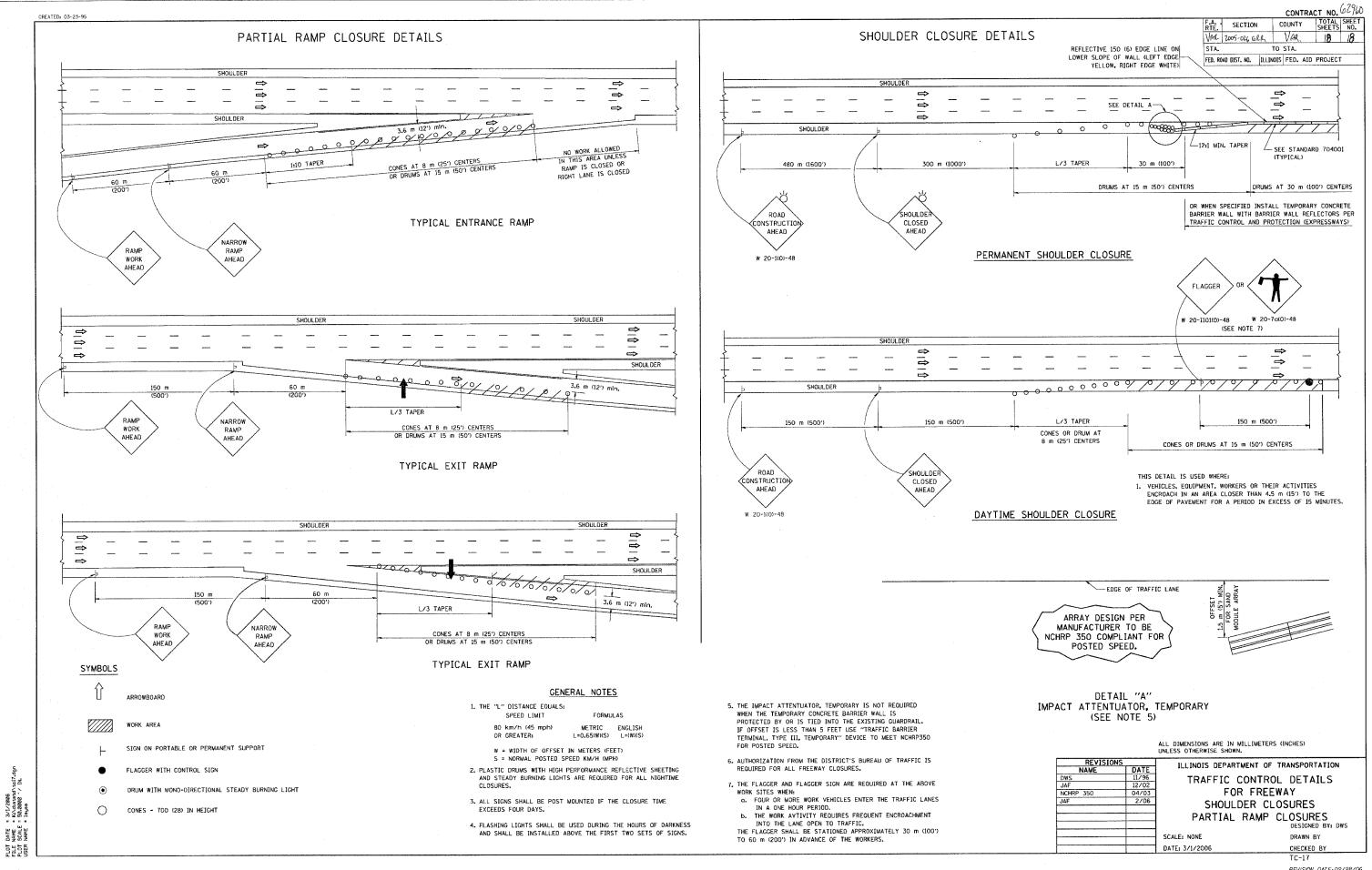
REVISIONS

NAME DATE

CURB REMOVAL (PARTIAL) FOR
TRAFFIC BARRIER TERMINAL,
TYPE 1 SPECIAL

SCALE: VERT. DRAWN BY
HORIZ. DESIGNED BY
CHECKED BY





REVISION DATE: 02/28/06