04-22-2016 LETTING ITEM 018

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	1
	ILLINOIS	CONTRACT NO. 64L04		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

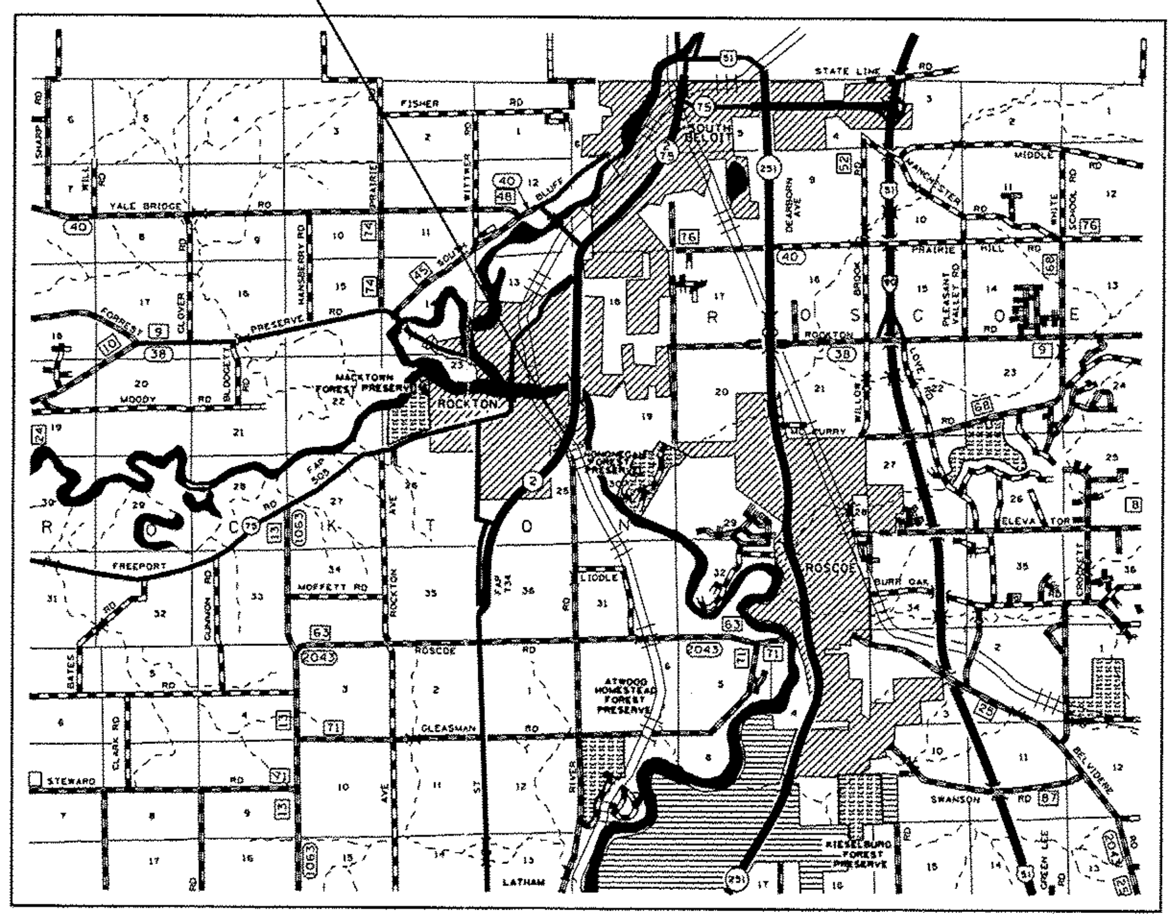
PROPOSED HIGHWAY PLANS

FAP ROUTE 734 (IL 2)
SECTION D2 JOINT REPAIR 2016–1
TYPE of IMPROVEMENT: BRIDGE REPAIR
WINNEBAGO COUNTY

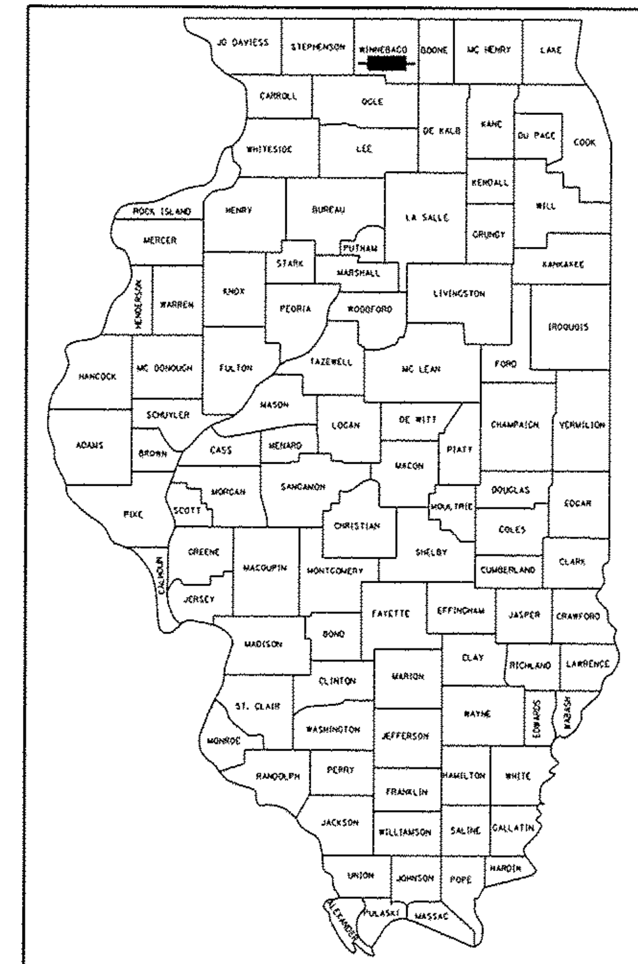
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

C–92–009–16

SN 101–0127
SN 101–0128



D–92–017–16



LOCATION OF SECTION INDICATED THUS: –

WINNEBAGO COUNTY – ROCKTON TOWNSHIP – SECTION 24

0 100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 1/22 20 16
Daniel C. [signature]
DEPUTY DIRECTOR OF HIGHWAYS, ~~REGION~~ ENGINEER

March 18 20 16
Maureen M. Addis, P.E. /br
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 18 20 16
Omer Osman, P.E. /br
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER: DAVID DOSS (815) 284–5416
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284–5393

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 64L04

INDEX OF SHEETS

STATE STANDARDS

701101 – 05 OFF ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

701423 – 09 LANE CLOSURE, MULTILANE, WITH BARRIER FOR SPEEDS ≥ 45 MPH TO 55 MPH

701422 – 08 LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH

701426 – 08 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION FOR SPEEDS ≥ 45 MPH

701901 – 05 TRAFFIC CONTROL DEVICES

704001 – 08 TEMPORARY CONCRETE BARRIER

720011 – 01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS

728001 – 01 TELESCOPING STEEL SIGN SUPPORT

729001 – 01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

GENERAL NOTES

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

(Type name & phone number of JULIE companies from attached utility form.)

Gas & Electric:

ROCK ENERGY COOPERATIVE
ATTN: CHRIS TULLAR (608) 314-4623
P.O. BOX 12615229 WILLOWBROOK ROAD
SOUTH BELOIT, IL 61080

Water & Sewer:

VILLAGE OF ROCKTON
ATTN: GORDON NYGREN (815) 624-7600
110 EAST MAIN STREET
ROCKTON, IL 61072

Telephone:

FRONTIER
ATTN: DONALD BELMORE (815) 544-6171
2230 NEWBURG ROAD
BELVIDERE, IL 61008

Communications:

CHARTER COMMUNICATIONS
ATTN TOM PHILLIPS (608) 209-4821
2016 CRANSTON ROAD
BELOIT, WI 53511

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

Hazards behind Temporary Concrete Barrier Wall
No materials, equipment, vehicles or other hazards shall be within 2'-0" of the temporary concrete barrier wall, measured from the closest point of the barrier wall perpendicular to the hazard. Equipment that is actively working with 2'-0" of the barrier wall may be allowed for a short duration, if approved by the engineer, required for the work activity, and there is not another method to complete the work. No materials equipment, vehicles or other hazards shall be stored within 25' of the impact attenuators.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION AND MIXTURE USES(S):	PROTECTIVE LAYER
PG:	SBS 70-22
DESIGN AIR VOIDS	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 4.75
FRICTION AGGREGATE	N/A
20 YEAR ESAL	
MIX UNIT WEIGHT	109 lbs/sy/in
QUALITY MANAGEMENT PROGRAM TO BE USED	QC/QA
SUBLOT TONNAGE	N/A

LOCATION AND MIXTURE USES(S):	SURFACE
PG:	PG 64-22
DESIGN AIR VOIDS	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5
FRICTION AGGREGATE	D
20 YEAR ESAL	1.6
MIX UNIT WEIGHT	112 lbs/sy/in
QUALITY MANAGEMENT PROGRAM TO BE USED	QC/QA
SUBLOT TONNAGE	N/A

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES

SCALE: ____ | SHEET ___ OF ___ SHEETS | STA. ____ TO STA. ____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	02 JOINT REPAIR 2016-1	WINNEBAGO	30	2
		CONTRACT NO. 64L04		
		ILLINOIS FED. AID PROJECT		

URBAN

SUMMARY OF QUANTITIES

0014
100%
State Funds

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
	40603535	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TONS	52.5
	42001300	PROTECTIVE COAT	SQ YD	66.6
	50102400	CONCRETE REMOVAL	CU YD	22.6
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	22.6
	50800205	REINFORCEMENT BARS EPOXY COATED	POUND	3,030
	50800515	BAR SPLICERS	EACH	48
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	157
	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	480
	67100100	MOBILIZATION	L SUM	1
	70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1
	70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	2
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	10,840
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3,614
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,102.29
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,102.29
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
	70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5,740
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,914
	X70101410	SPEED DISPLAY TRAILER	CAL MO	3
18	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
	Z0004556	SURFACE REMOVAL (DECK)	SQ YD	480
	Z0012800	CONCRETE PAVEMENT SCARIFICATION	SQ YD	53.3

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: ____ SHEET ___ OF ___ SHEETS STA. ____ TO STA. ____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	02 JOINT REPAIR 2016-1	WINNEBAGO	30	3
		CONTRACT NO. 64L04		
	ILLINOIS FED. AID PROJECT			

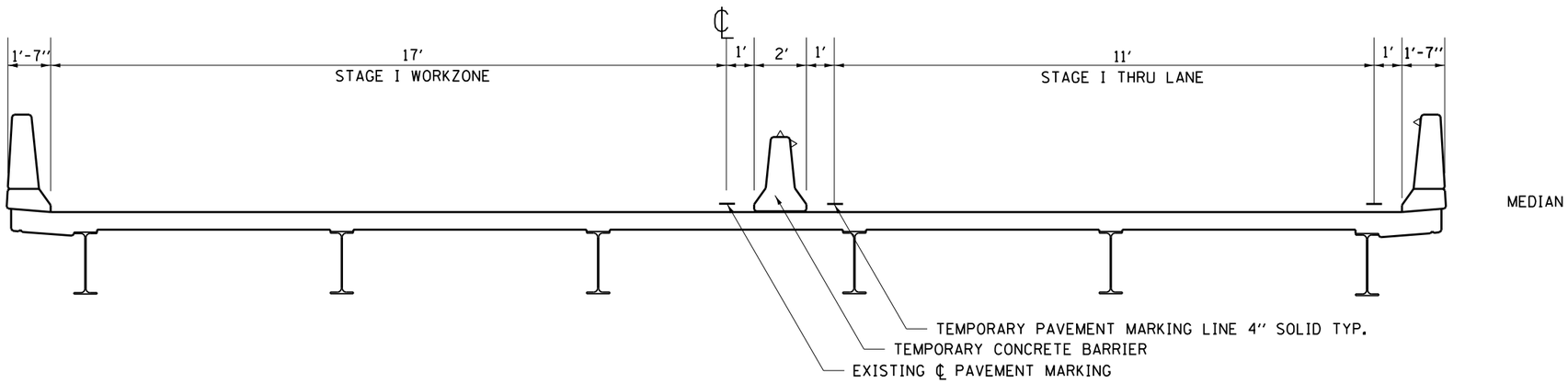
SUMMARY OF QUANTITIES

0014
100%
State Funds

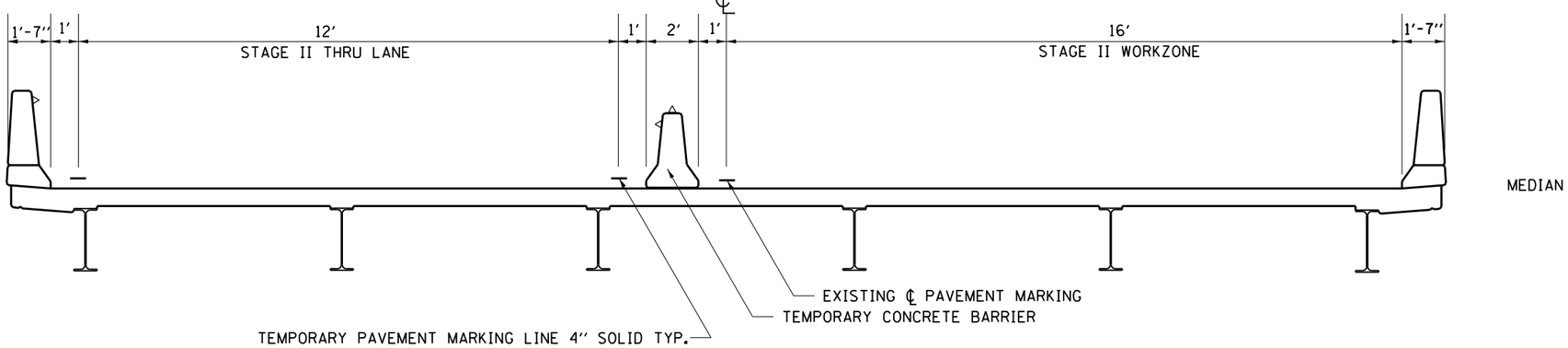
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY

STAGING TYPICALS SN 101–0127(SB)

STAGE I
(LOOKING NORTH)



STAGE II
(LOOKING NORTH)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICALS
SN 101–0127(SB)

SCALE: _____ | SHEET ___ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	5
		CONTRACT NO. 64L04		
	ILLINOIS FED. AID PROJECT			

STAGING TYPICALS SN 101–0128(NB)

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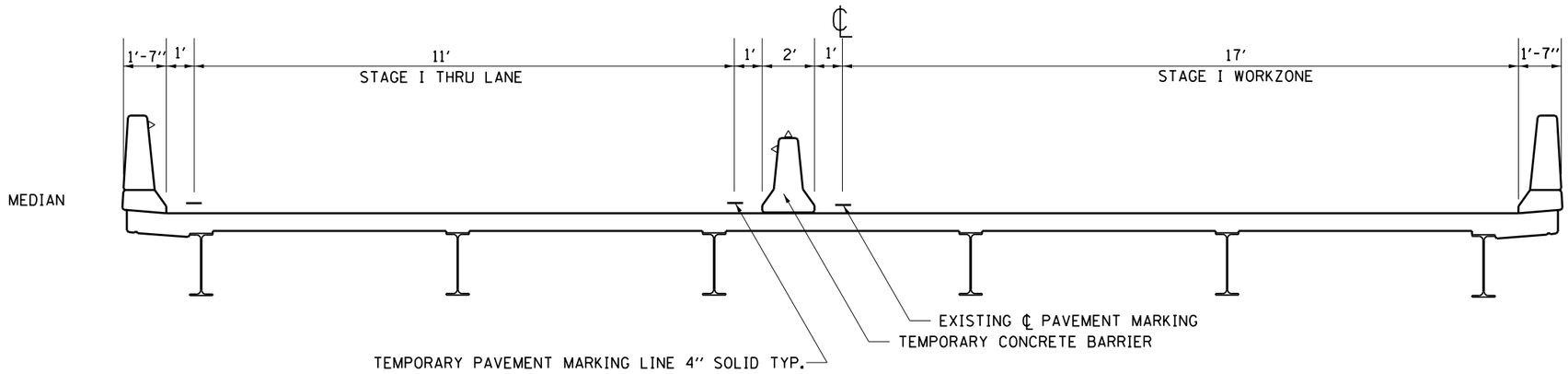
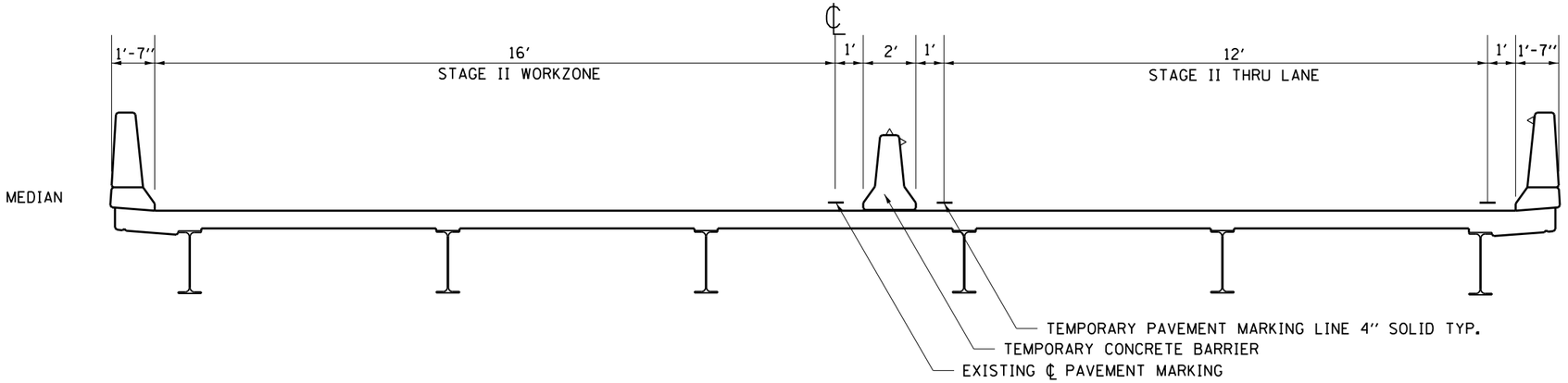


STAGE II
(LOOKING NORTH)



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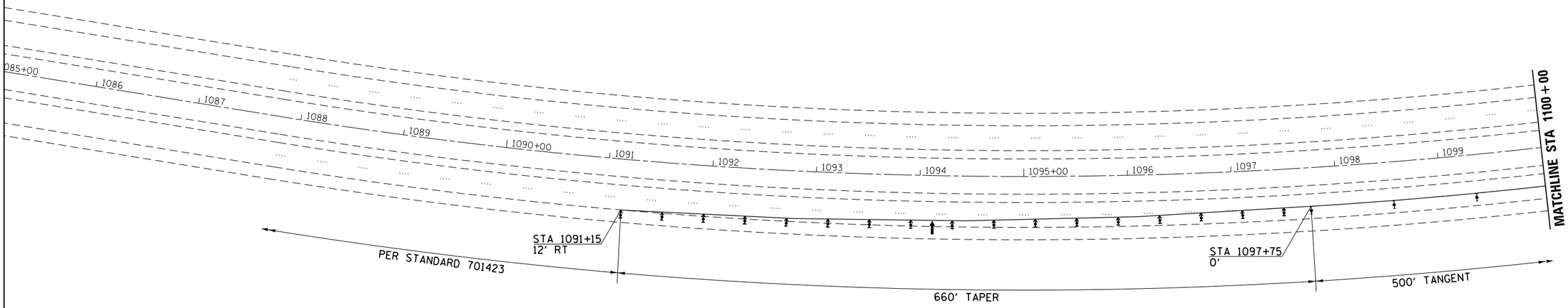
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICALS
SN 101–0128(NB)

SCALE: _____ | SHEET ___ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	6
		CONTRACT NO. 64L04		
	ILLINOIS FED. AID PROJECT			

TRAFFIC CONTROL PLAN
STAGE I – SN's 101–0127 & 101–0128



NOTES:

BARRIER WALL OFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL.

REFER TO STANDARD 701423 & 704001 FOR DETAILS NOT SHOWN

SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Temporary concrete barrier
- Impact attenuator
- Type II barricade, drum, or vertical barricade with monodirectional flashing light

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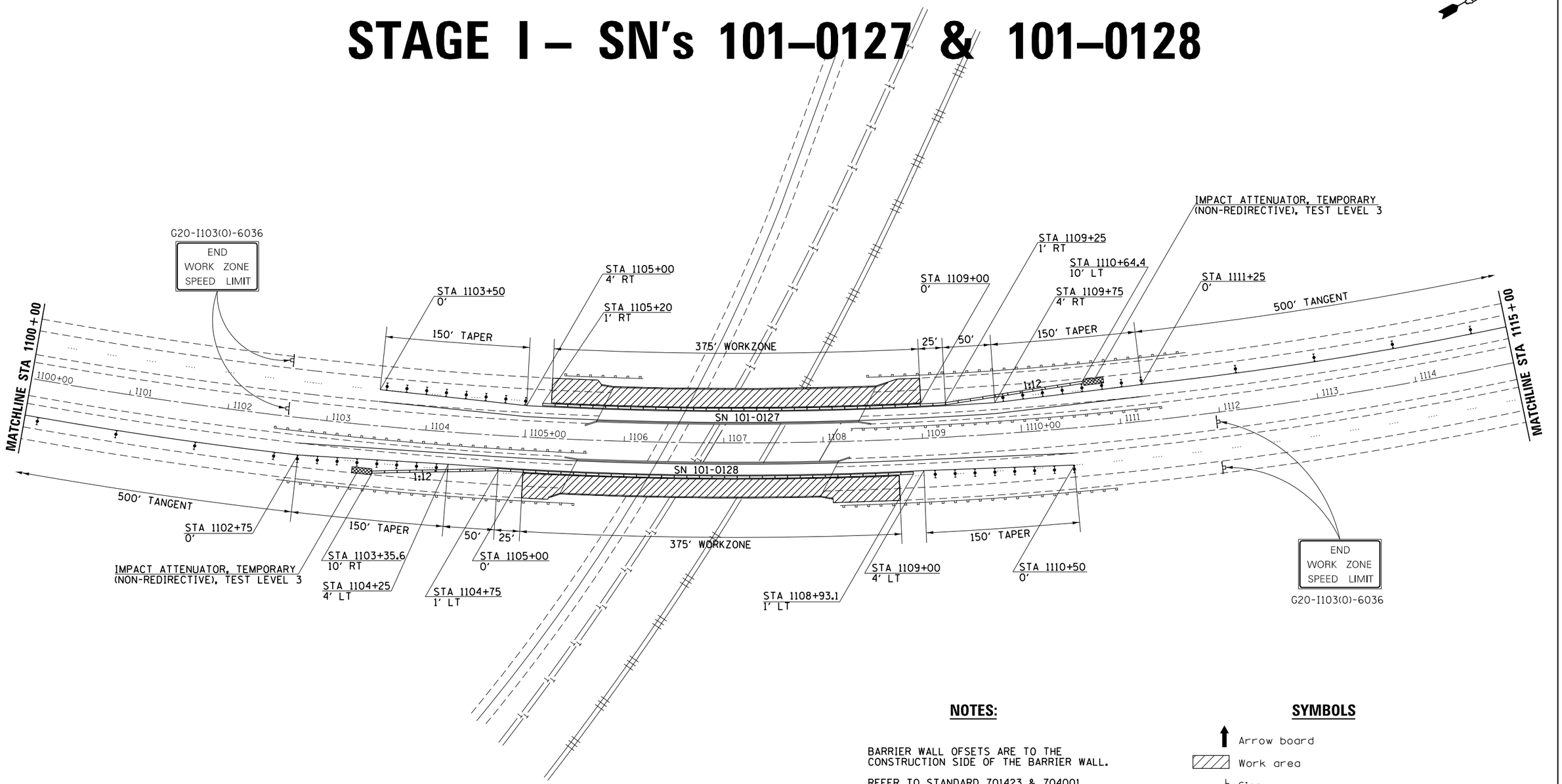
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE I – SN's 101–0127 & 101–0128

SCALE: _____ | SHEET ___ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	7
		CONTRACT NO. 64L04		
	ILLINOIS FED. AID PROJECT			

TRAFFIC CONTROL PLAN
STAGE I – SN's 101–0127 & 101–0128



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE I – SN's 101–0127 & 101–0128

SCALE: _____ SHEET ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	8
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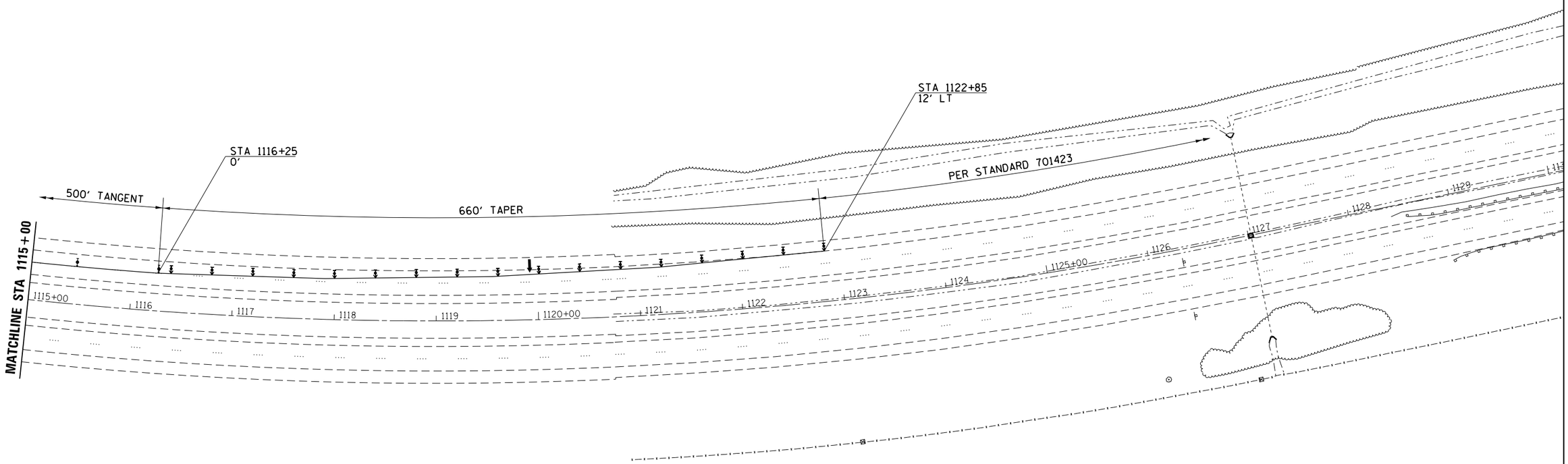
		ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL PLAN
STAGE I – SN's 101–0127 & 101–0128



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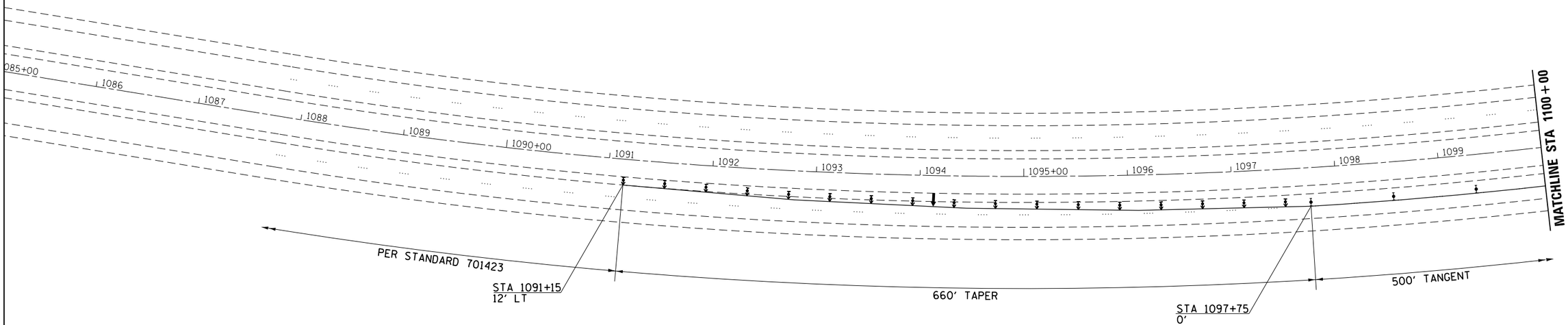
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE I – SN's 101–0127 & 101–0128

SCALE: _____ SHEET ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	9
		CONTRACT NO. 64L04		
		ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL PLAN
STAGE II – SN's 101–0127 & 101–0128



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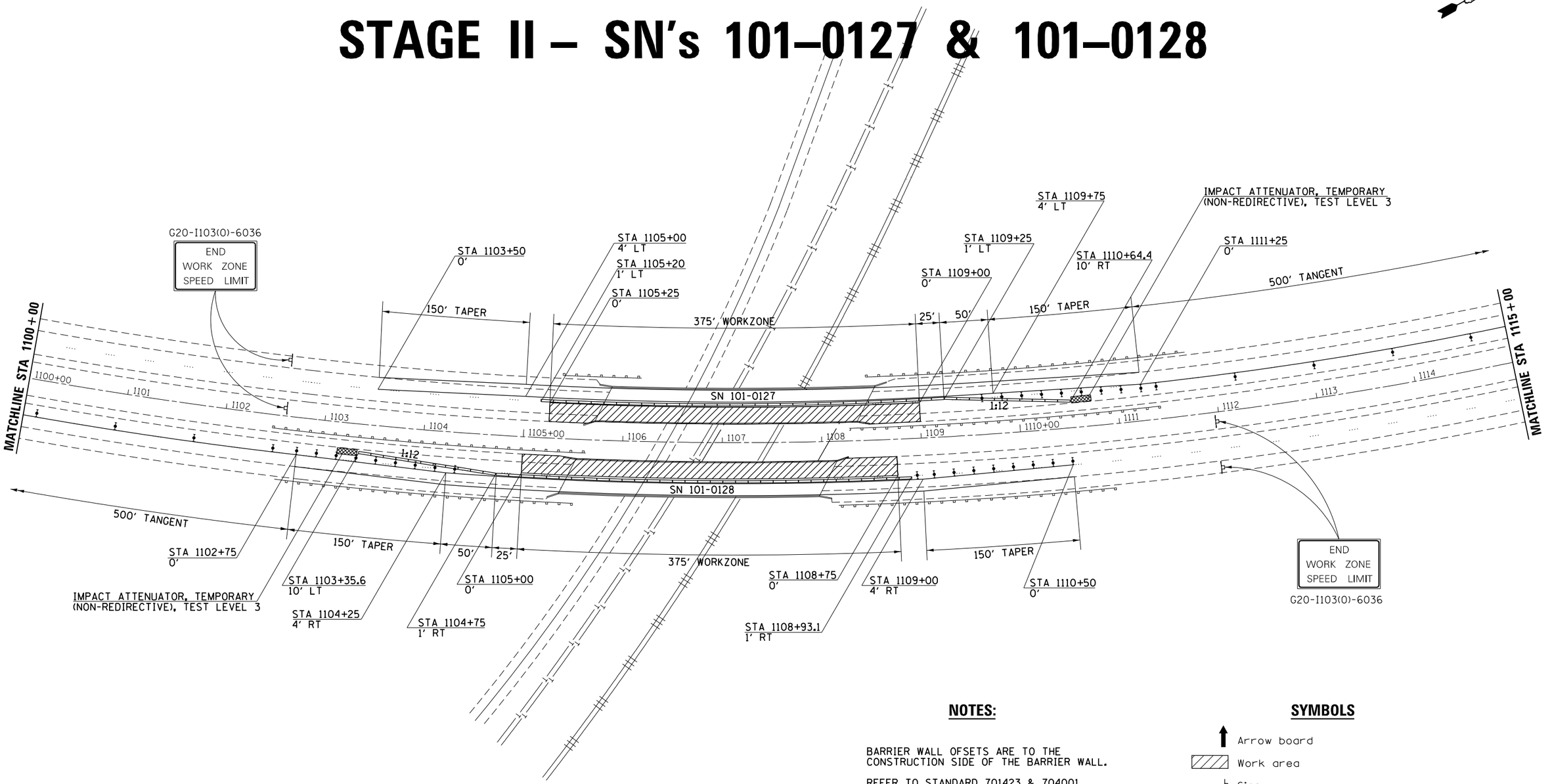
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE II – SN's 101–0127 & 101–0128

SCALE: _____ SHEET ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	10
		CONTRACT NO. 64L04		
		ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL PLAN
STAGE II – SN's 101–0127 & 101–0128



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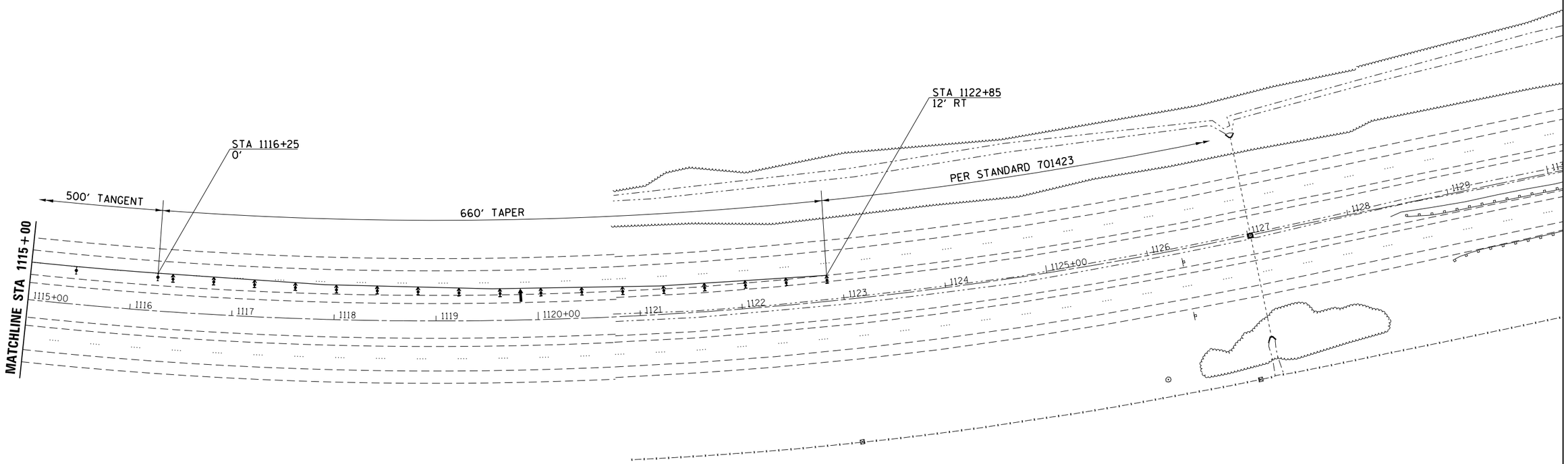
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE II – SN's 101–0127 & 101–0128

SCALE: _____ SHEET ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	11
		CONTRACT NO. 64L04		
	ILLINOIS FED. AID PROJECT			

TRAFFIC CONTROL PLAN
STAGE II – SN's 101–0127 & 101–0128



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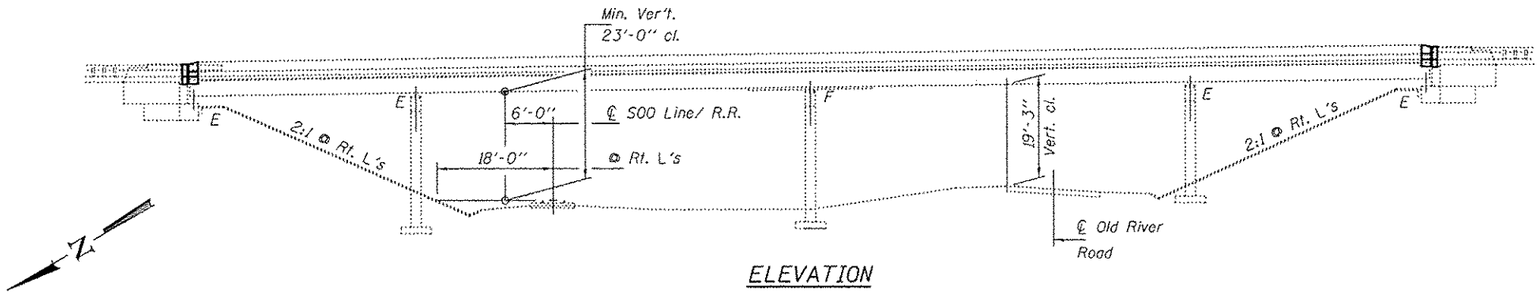
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

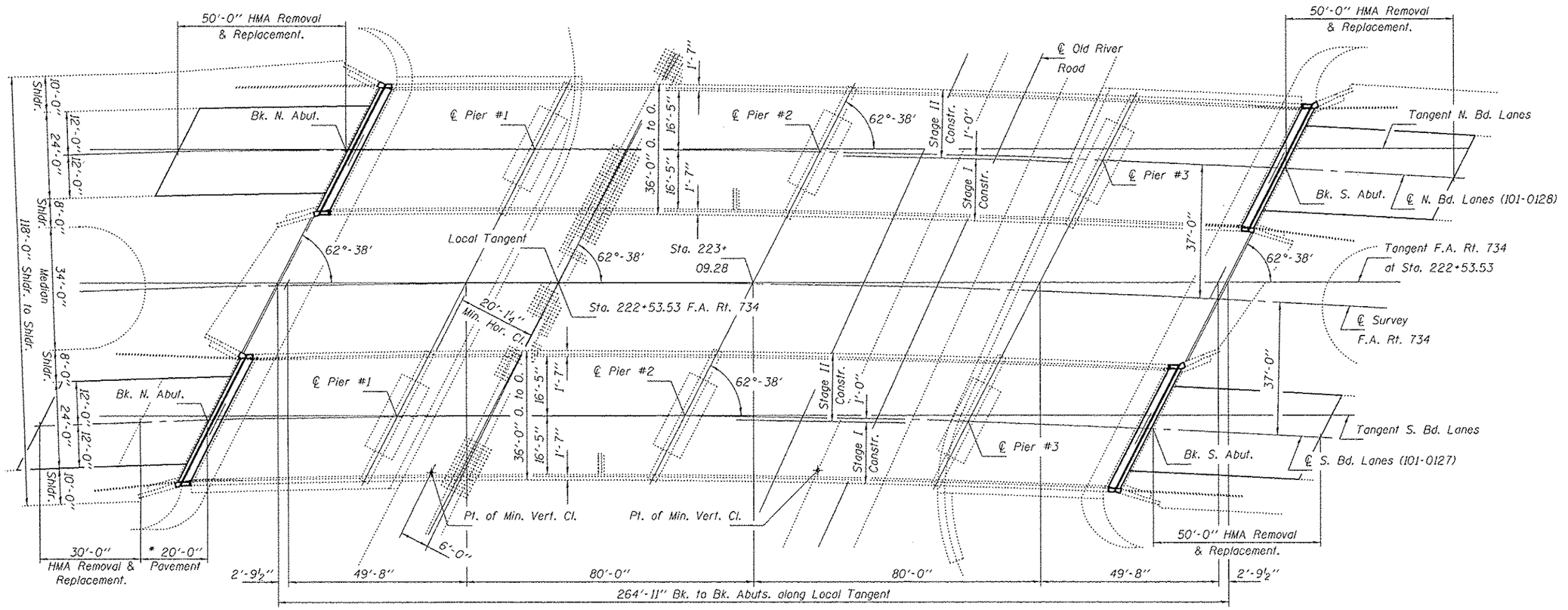
TRAFFIC CONTROL PLAN
STAGE II – SN's 101–0127 & 101–0128

SCALE: _____ SHEET ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	12
		CONTRACT NO. 64L04		
	ILLINOIS FED. AID PROJECT			



ELEVATION



PLAN

* 1¾" Concrete Scarification and replacement with HMA.

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD
ILLINOIS
STATE OF ILLINOIS

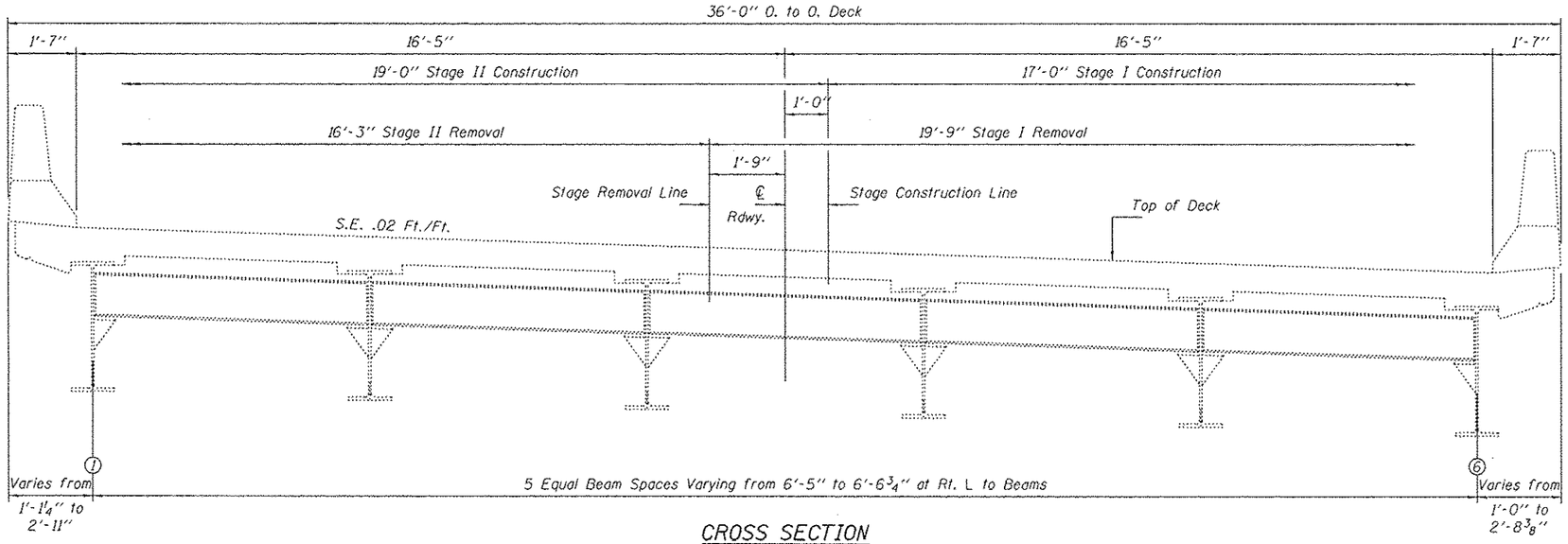
EXPIRES 11-30-2016

Notes:
For Cross Section, Section Thru Curb, General Notes and Total Bill of Material see Sheet 2 of 7.

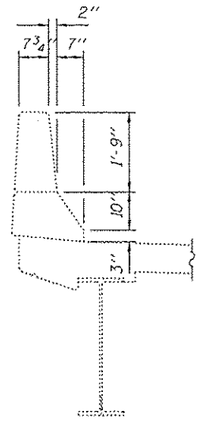
DESIGNED						F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED	Stephanie M. Ryan					734	D2 JOINT REPAIR 2016-1	WINNEBAGO	19	13
DRAWN	J. Schneller	PASSED	D. Carl Puzey	DATE	MARCH 2, 2016			CONTRACT NO. 64L04		
CHECKED	SMR		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED				ILLINOIS FED. AID PROJECT		
				REVISED						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & ELEVATION
SN 101-0127 & 101-0128
SHEET NO. 1 OF 7 SHEETS



CROSS SECTION
(Looking South)



SECTION THRU PARAPET

GENERAL NOTES

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

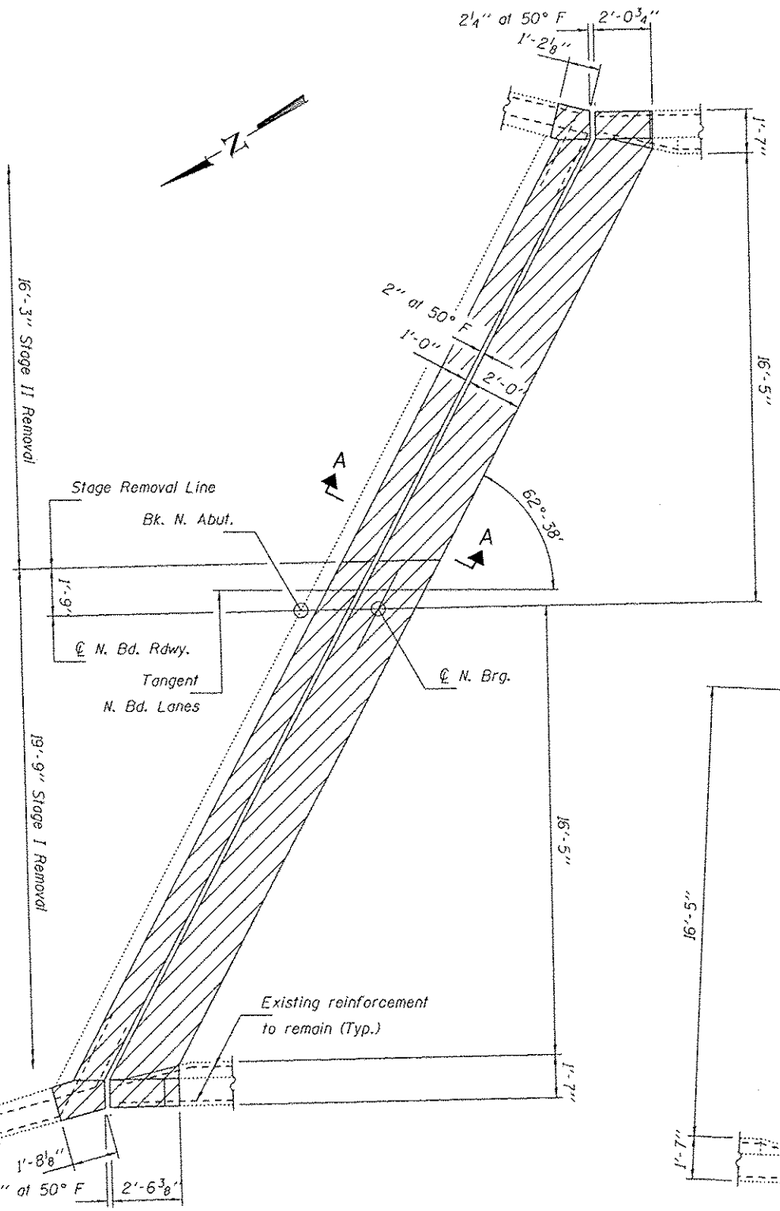
The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

TOTAL BILL OF MATERIAL

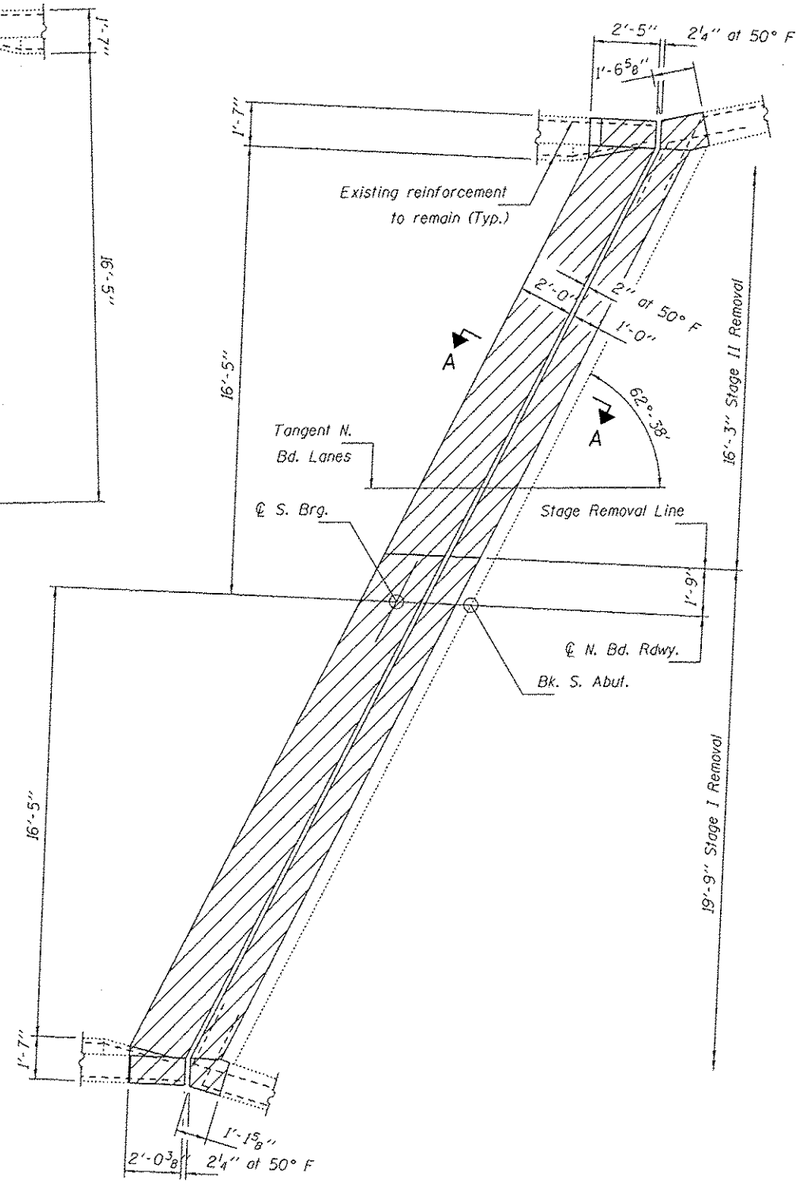
	ITEM	UNIT	QUANTITY
	Concrete Removal	Cu. Yd.	22.6
	Concrete Superstructure	Cu. Yd.	22.6
	Preformed Joint Strip Seal	Foot	157
	Reinforcement Bars, Epoxy Coated	Pound	3030
	Bar Splicers	Each	48
*	Protective Coat	Sq. Yd.	66.6
	Concrete Pavement Scarification	Sq. Yd.	53.3
	HMA Surface Removal (Deck)	Sq. Yd.	480
	Polymerized Hot-Mix Asphalt Surface Course, Mix "D", N90	Tons	52.5

*. On new concrete only

DESIGNED JGY	PASSED	DATE MARCH 2, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & ELEVATION DETAILS SN 101-0127 & 101-0128	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED SMR					734	D2 JOINT REPAIR 2016-1	WINNEBAGO	19	14
DRAWN J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 2 OF 7 SHEETS			CONTRACT NO. 64L04		
CHECKED JGY SMR		REVISED					ILLINOIS FED. AID PROJECT		

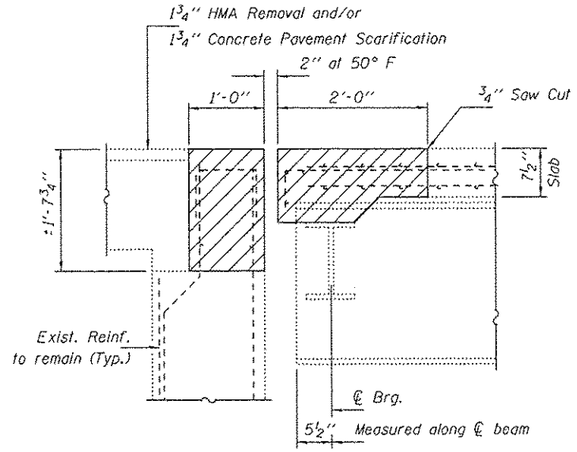


REMOVAL PLAN NORTH ABUTMENT



REMOVAL PLAN SOUTH ABUTMENT

North Bound Lanes (S.N. 101-0128) shown,
South Bound Lanes (S.N. 101-0127) similar.

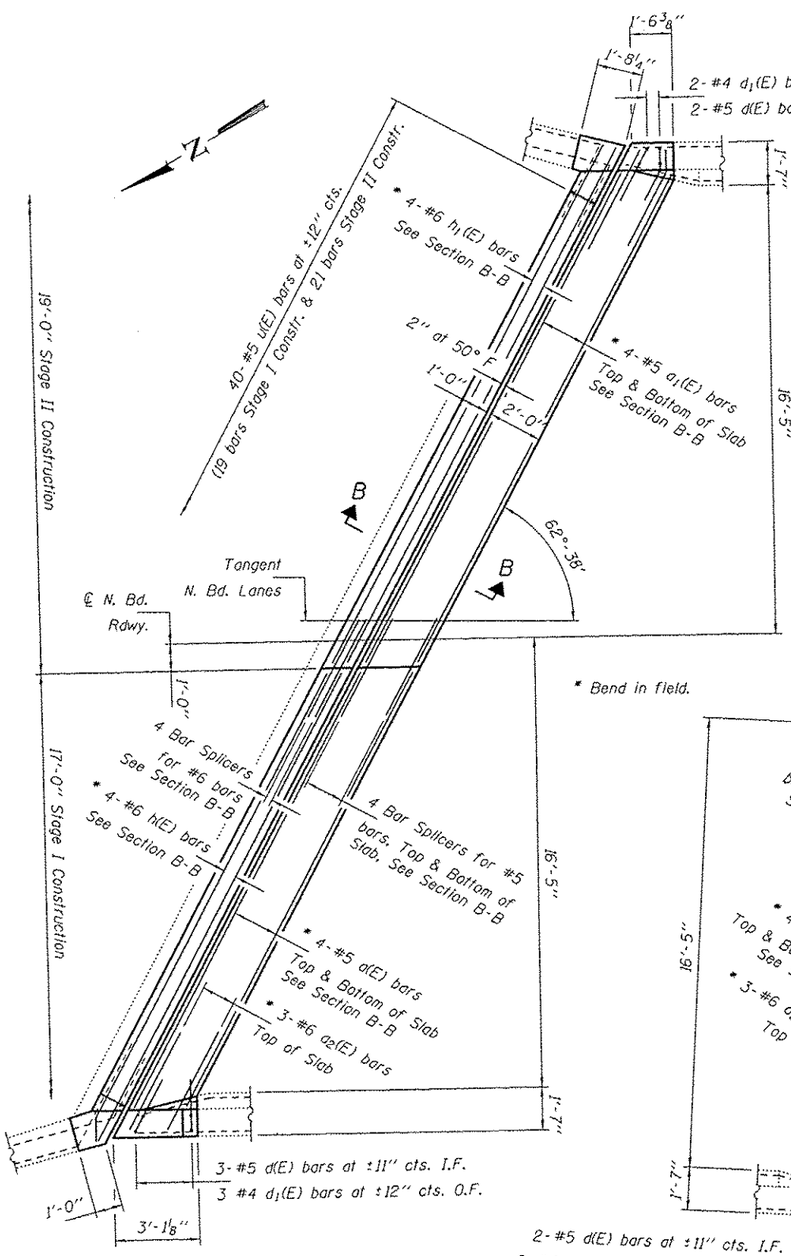


SECTION A-A

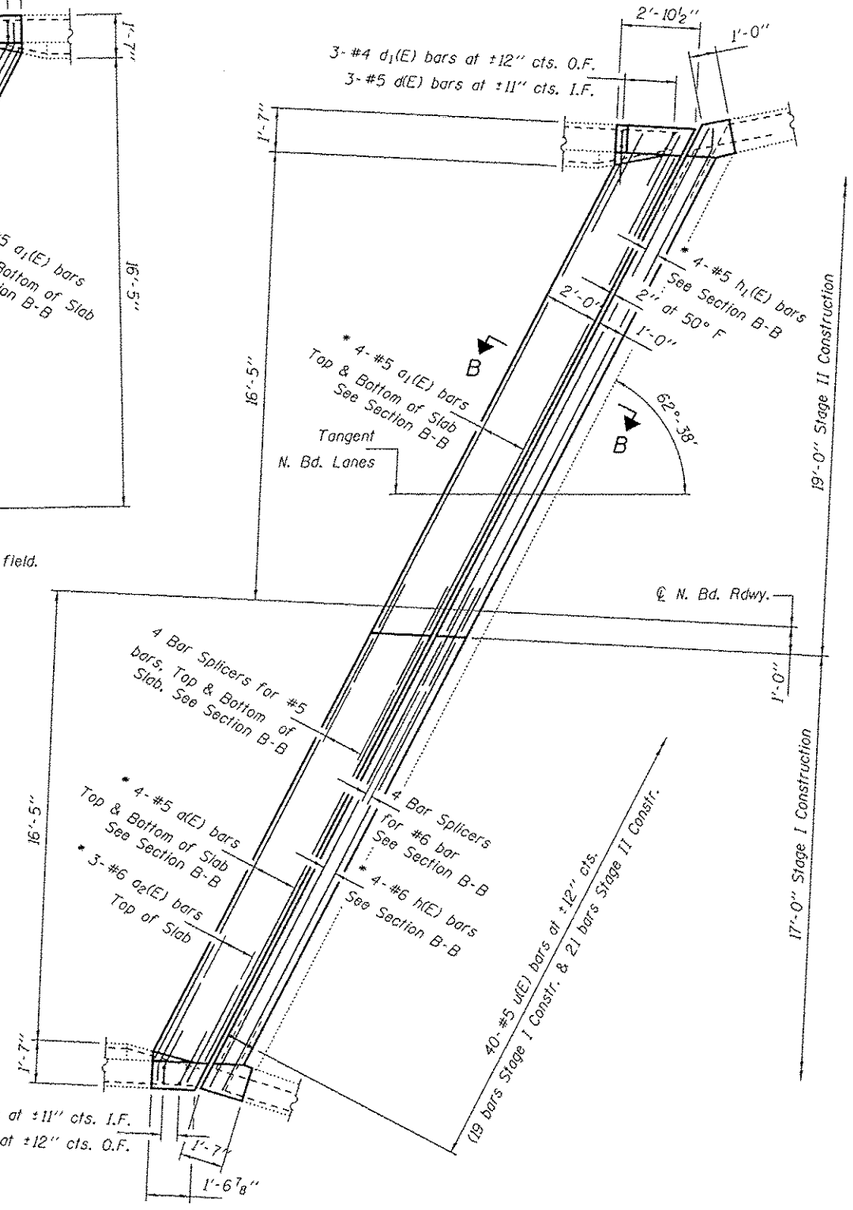
▨ - Concrete Removal

DESIGNED JGY	PASSED	DATE MARCH 2, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REMOVAL DETAILS SN 101–0127 & 101–0128	
CHECKED SMR	J. Carl Puzey	REVISED			
DRAWN J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 3 OF 7 SHEETS	
CHECKED JGY SMR					

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	19	15
		CONTRACT NO. 64L04		
		ILLINOIS FED. AID PROJECT		

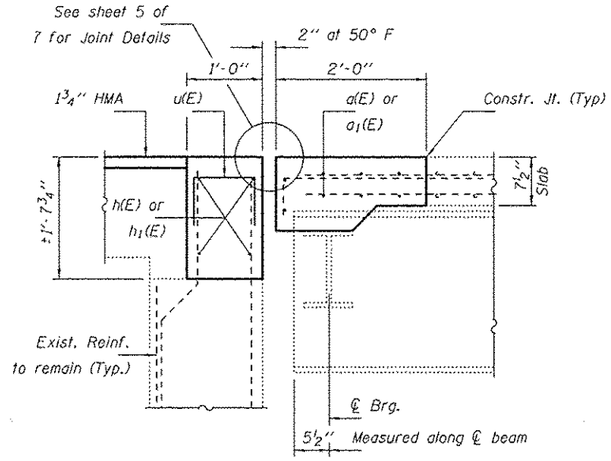


REPLACEMENT PLAN NORTH ABUTMENT

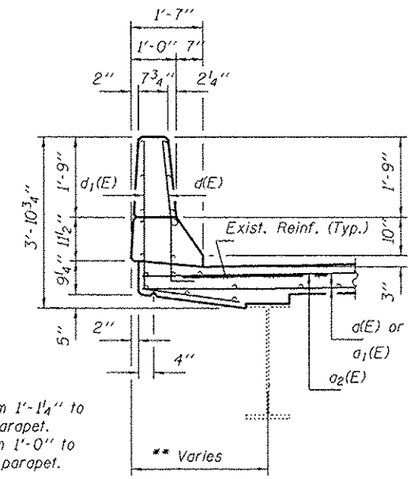


REPLACEMENT PLAN SOUTH ABUTMENT

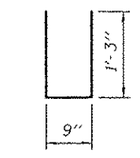
North Bound Lanes (S.N. 101-0128) shown.
South Bound Lanes (S.N. 101-0127) similar.



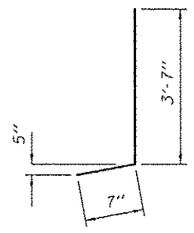
SECTION B-B



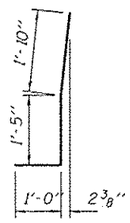
SECTION THRU PARAPET



BAR u(E)



BAR d1(E)



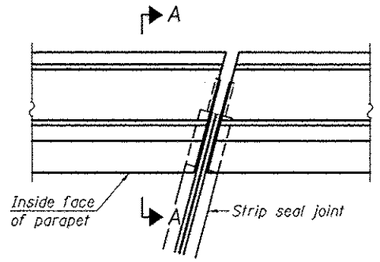
BAR d(E)

BILL OF MATERIAL

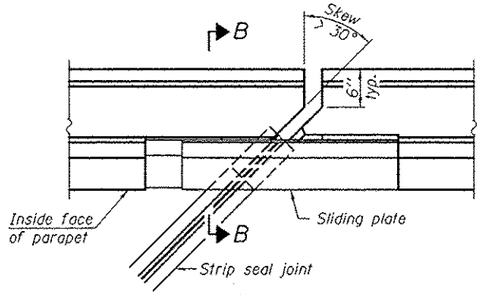
Bar	No.	Size	Length	Shape
d(E)	32	#5	17'-9"	——
a1(E)	32	#5	20'-0"	——
a2(E)	24	#6	4'-0"	——
d(E)	20	#5	4'-3"	⌶
d1(E)	20	#4	4'-2"	⌶
h(E)	16	#6	18'-11"	——
h1(E)	16	#6	21'-2"	——
u(E)	160	#5	3'-3"	⊔
Concrete Removal			Cu. Yd.	22.8
Concrete Superstructure			Cu. Yd.	22.7
Reinforcement Bars, Epoxy Coated			Lbs.	3030

DESIGNED JGY							
CHECKED SMR							
DRAWN J. Schneller	PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	DATE MARCH 2, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REPLACEMENT DETAILS SN 101-0127 & 101-0128	F.A. RTE.	SECTION
CHECKED JGY SMR			REVISED		SHEET NO. 4 OF 7 SHEETS	734	D2 JOINT REPAIR 2016-1
			REVISED				

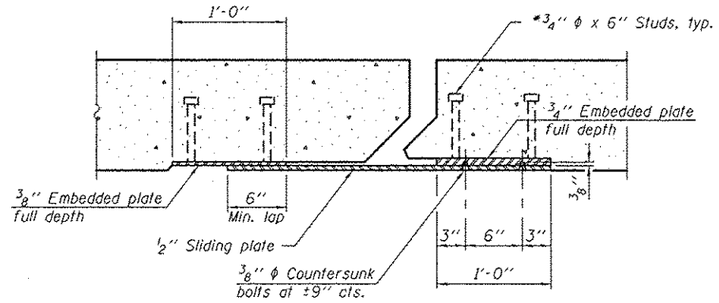
COUNTY	TOTAL SHEETS	SHEET NO.
WINNEBAGO	19	16
CONTRACT NO. 64L04		
ILLINOIS FED. AID PROJECT		



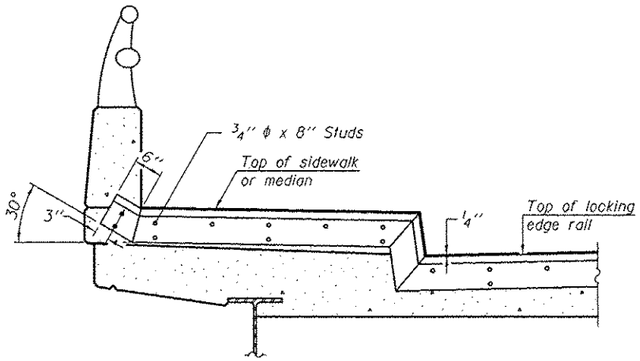
PLAN
(For skews ≤ 30°)



PLAN
(For skews > 30°)
Showing point block

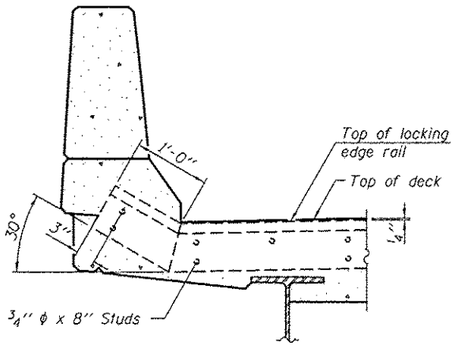


SECTION C-C

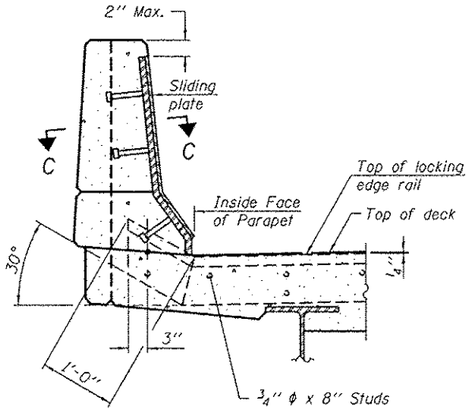


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

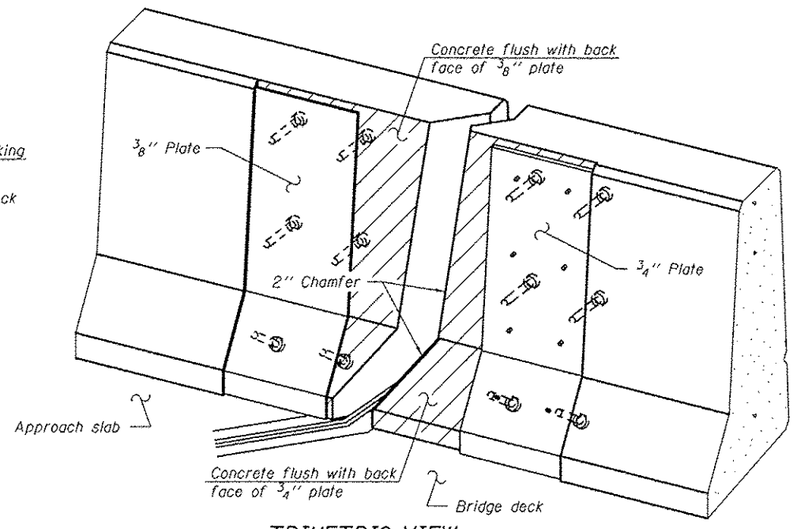
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



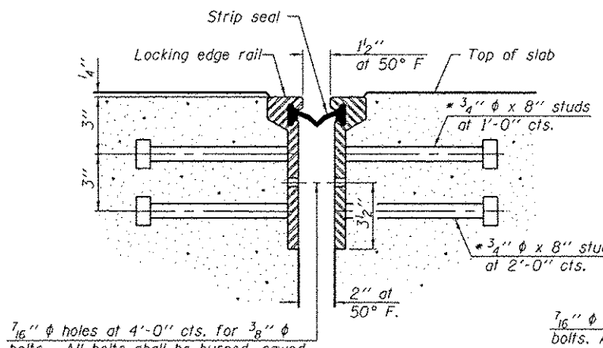
SECTION A-A



SECTION B-B

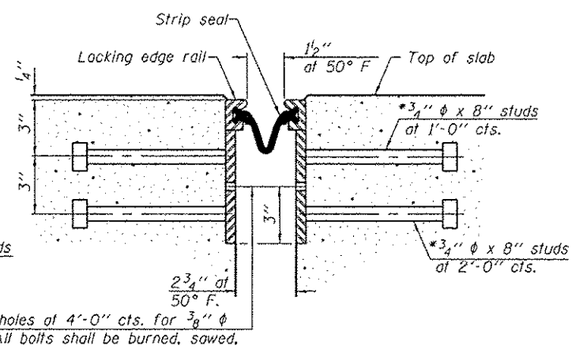


TRIMETRIC VIEW
(Showing back plates only)



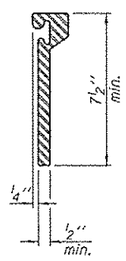
7/16" ϕ holes at 4'-0" cts. for ⅜" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU ROLLED RAIL JOINT

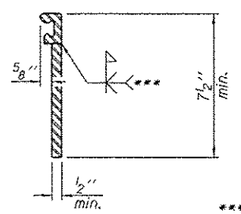


7/16" ϕ holes at 4'-0" cts. for ⅜" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

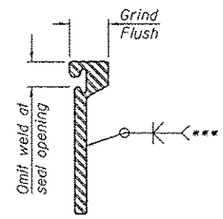
SECTION THRU WELDED RAIL JOINT



ROLLED EXTRUDED RAIL



WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

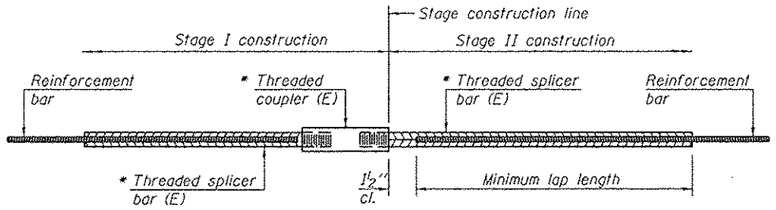
BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	157

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

EJ-SSJ 1-27-12

DESIGNED JGY	PASSED	DATE MARCH 2. 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PREFORMED JOINT STRIP SEAL SN 101-0127 & 101-0128	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED SMR					734	D2 JOINT REPAIR 2016-1	WINNEBAGO	19	17
DRAWN J. Schneller		REVISED						CONTRACT NO. 64L04	
CHECKED JGY SMR	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 5 OF 7 SHEETS			ILLINOIS FED. AID PROJECT		

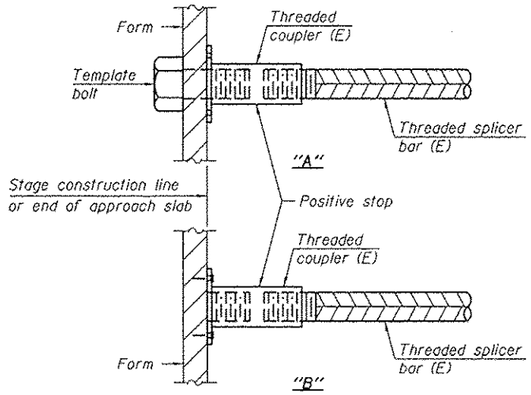


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

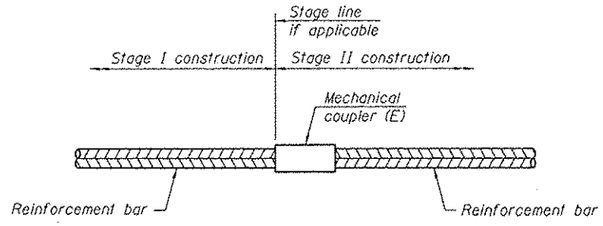
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
N. Abut. Hatched Block	#6	8	4'-0"
N. End of Deck	#5	16	3'-6"
S. Abut. Hatched Block	#6	8	4'-0"
S. End of Deck	#5	16	3'-6"



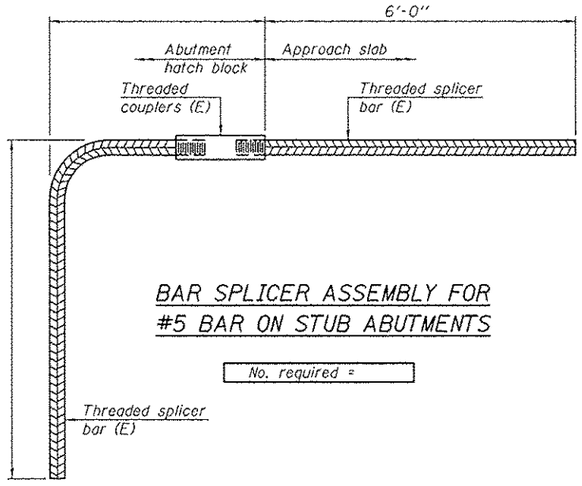
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

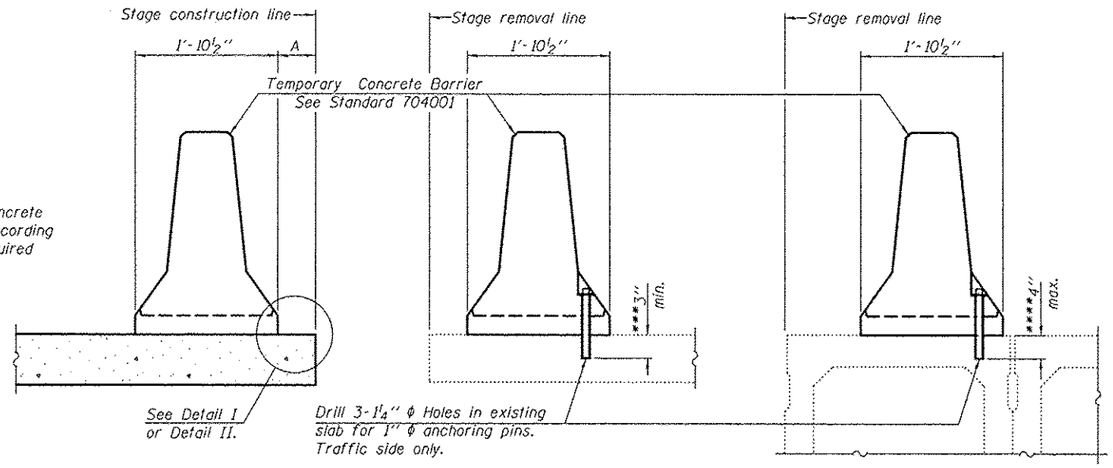
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 6-8-15

DESIGNED JGY	PASSED	DATE MARCH 2, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 101-0127 & 101-0128	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED SMR		REVISED			734	D2 JOINT REPAIR 2016-1	WINNEBAGO	19	18
DRAWN J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 6 OF 7 SHEETS			CONTRACT NO. 64L04		
CHECKED JGY SMR							ILLINOIS FED. AID PROJECT		

When "A" is 3'-1" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel ℙ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

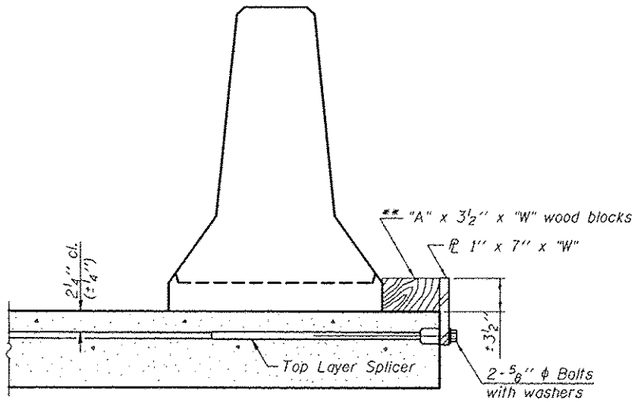
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel ℙ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

Cost of retainer assembly is included with Temporary Concrete Barrier.

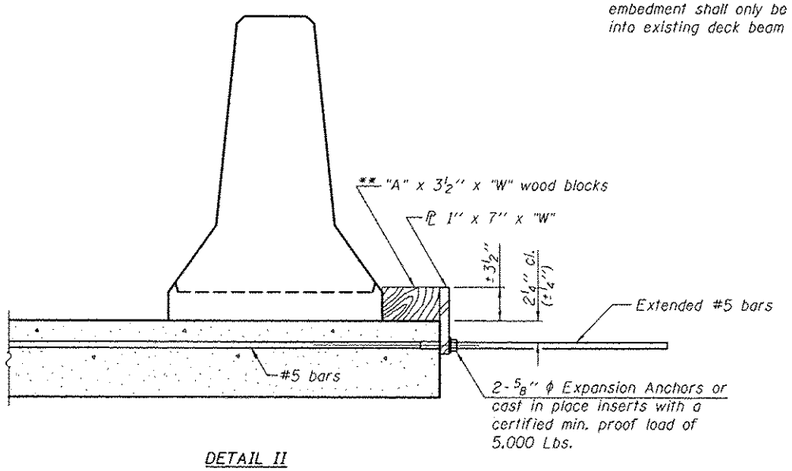
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

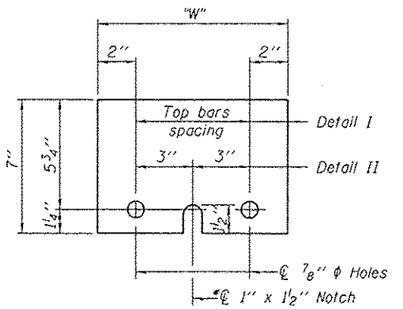
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER ℙ 1" x 7" x "W"

* Required only with Detail II

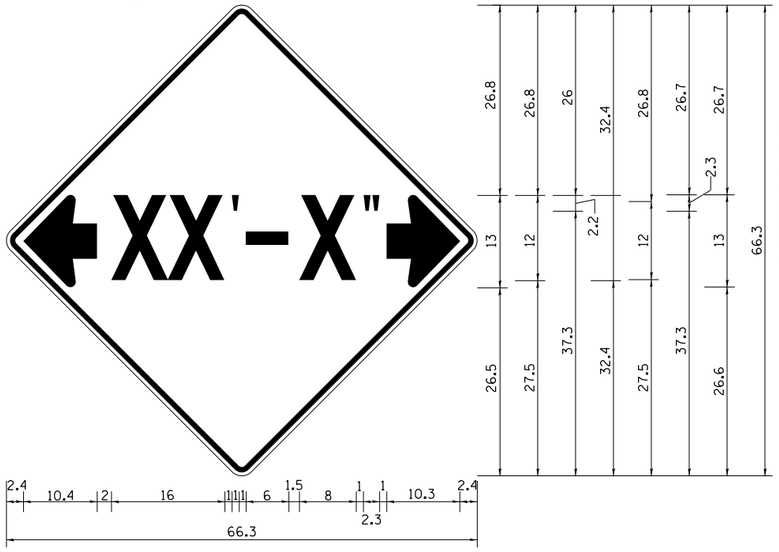
RETAINER ASSEMBLY

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

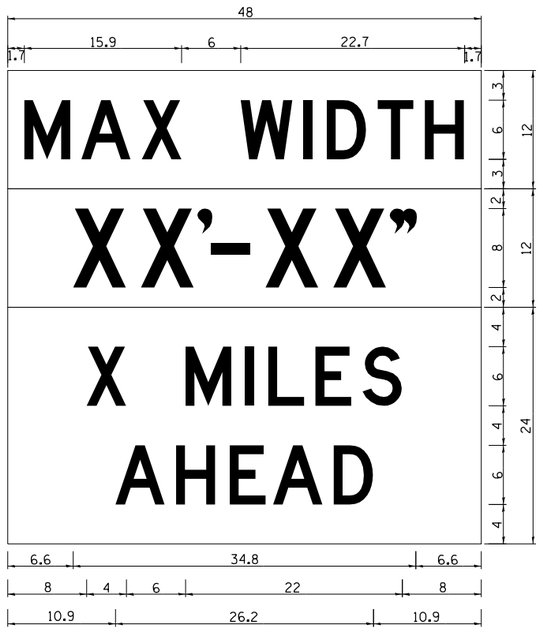
R-27 1-12-15

DESIGNED JGY CHECKED SMR DRAWN J. Schneller CHECKED JGY SMR	PASSED A Carl Trupp ACTING ENGINEER OF BRIDGES AND STRUCTURES	DATE MARCH 2, 2016 REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION SN 101-0127 & 101-0128 SHEET NO. 7 OF 7 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					734	D2 JOINT REPAIR 2016-1	WINNEBAGO	19	19
							CONTRACT NO. 64L04		
							ILLINOIS FED. AID PROJECT		

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
W12-2 - Horizontal Clearance Sign 48.0" across sides, 1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange; Standard Arrow Custom 10.4" X 8.1" 180° Black 11 Inch D Series Lettering; Standard Arrow Custom 10.4" X 8.1" 0°



W12-1103 (Width is 8D);
No border, Black on White;
[MAX WIDTH] D;

No border, Black on Orange;
[XX'-XX"] D;

No border, Black on White;
[X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

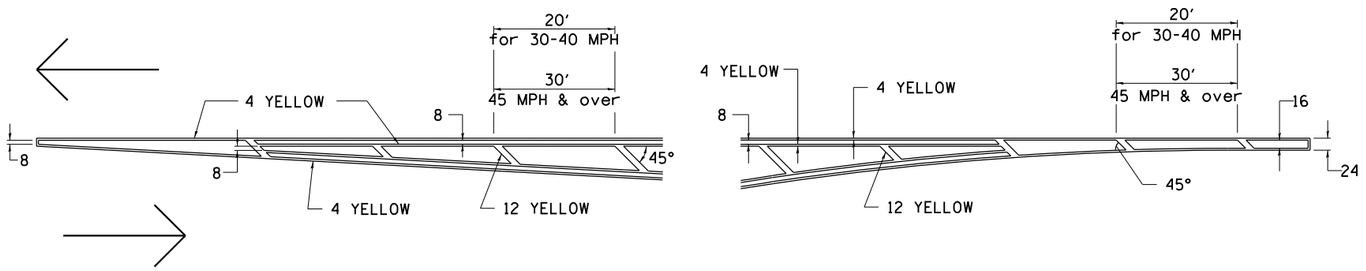
REVISED - 5-15-09

PLOT DATE = Jan-29-2016 @153x43 AM

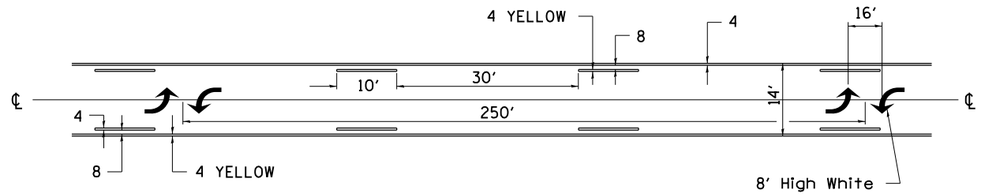
REVISED - ___	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - ___		734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30 / 20
REVISED - ___				CONTRACT NO. 64L04	
REVISED - ___	SCALE: 100.0000 ' / in. SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT	

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

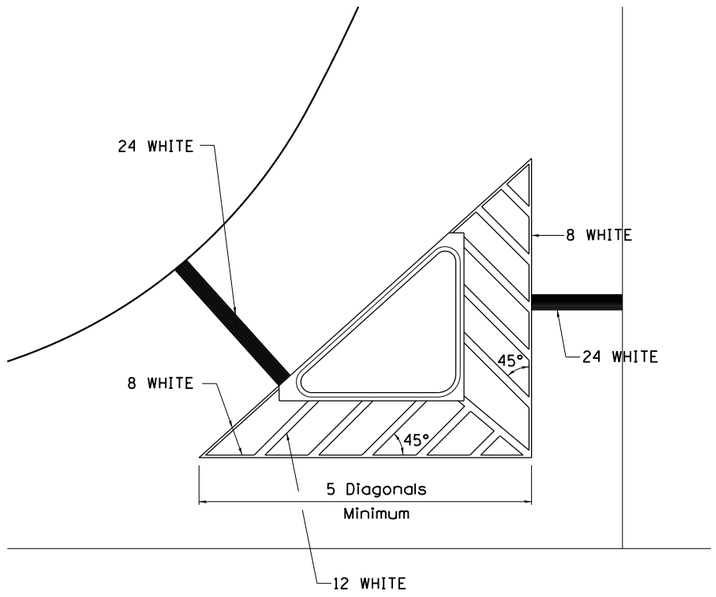


MEDIAN PAVEMENT MARKING



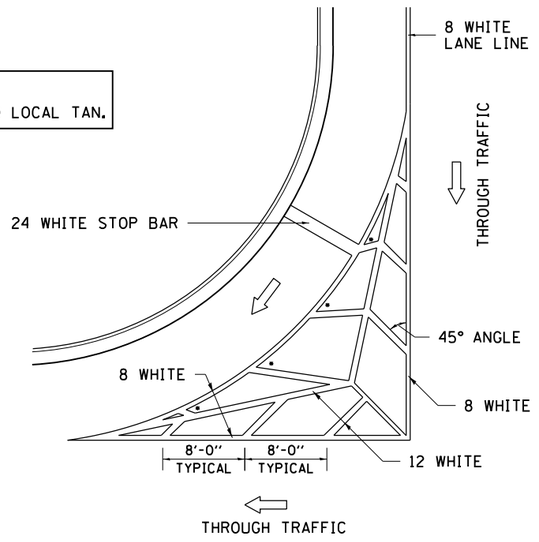
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



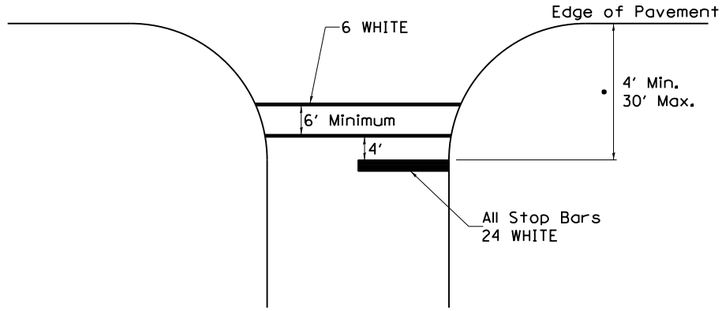
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

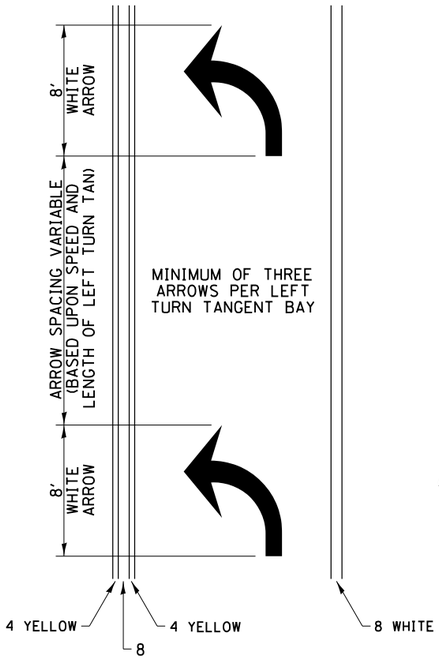


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME = D:\BR\Doss_Winnebago\64L04 Repairs SN	USER NAME = dossdd	DESIGNED - ___	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	101-0127 and 101-0128\CADD\D2-017-16-sht-cover.dgn	DRAWN - ___	REVISED - 3-05-12			734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	21
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ___	REVISED - ___					CONTRACT NO. 64L04		
	PLOT DATE = Jan-29-2016 07:53:56 AM	DATE - _____	REVISED - ___		SCALE: _____ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN

RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

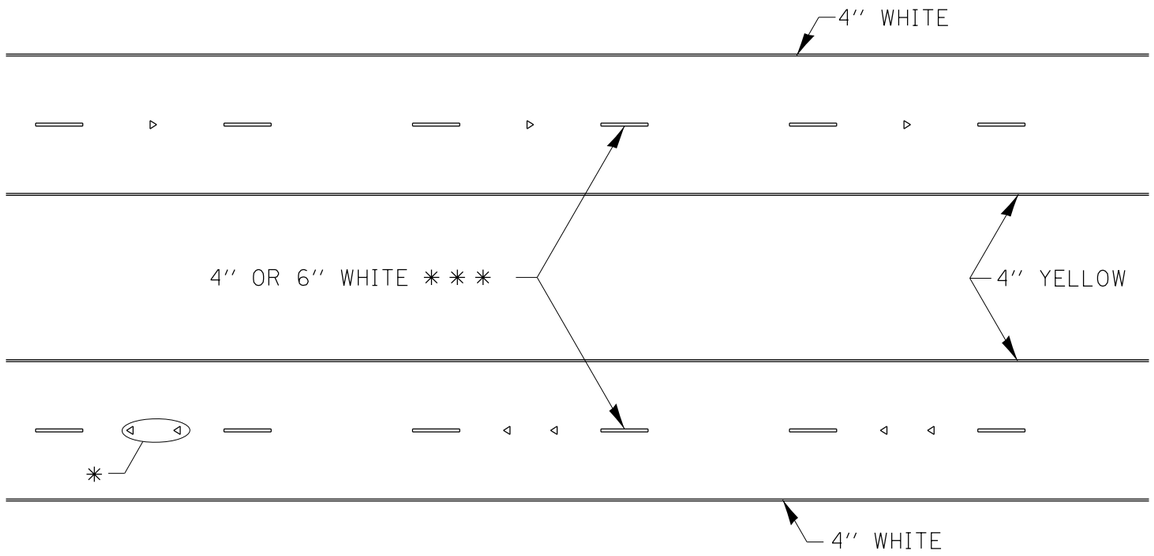
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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

FILE NAME = O:\BR\Doss_Winnebago\64L04 Repairs SN	USER NAME = dossdd	DESIGNED - ___	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD
	101-0127 and 101-0128\CADD\D2-017-16-sht-cover.dgn	DRAWN - ___	REVISED - 3-05-12		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ___	REVISED - ___		SCALE: ___ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____
	PLOT DATE = Jan-29-2016 07:54:01 AM	DATE - _____	REVISED - ___		

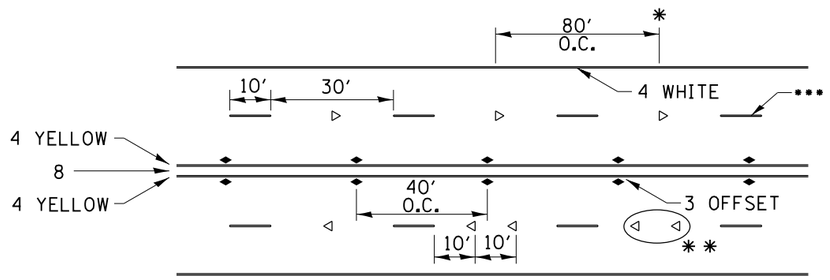
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	22
		CONTRACT NO. 64L04		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS



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

MULTI–LANE / DIVIDED



SYMBOLS

- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

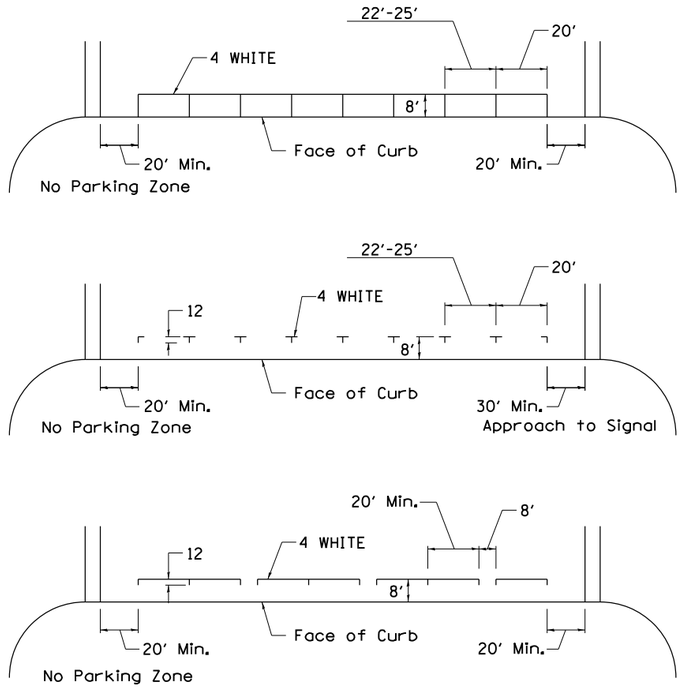
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4'' LINE. SPEED LIMIT 40 MPH AND OVER USE 6'' LINE.

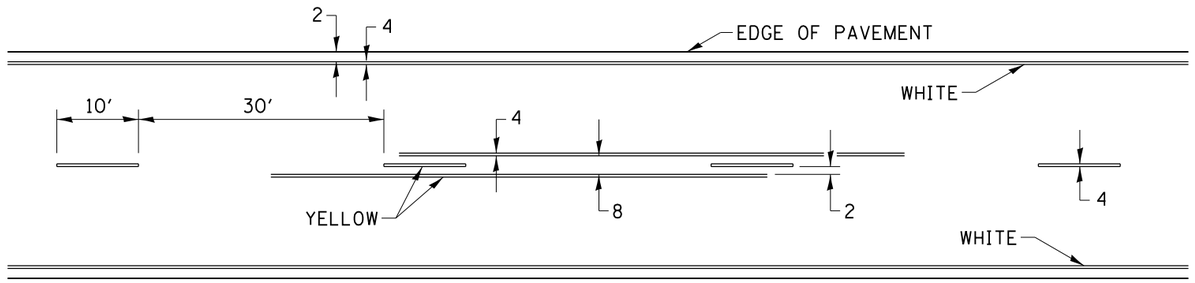
MULTI–LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES

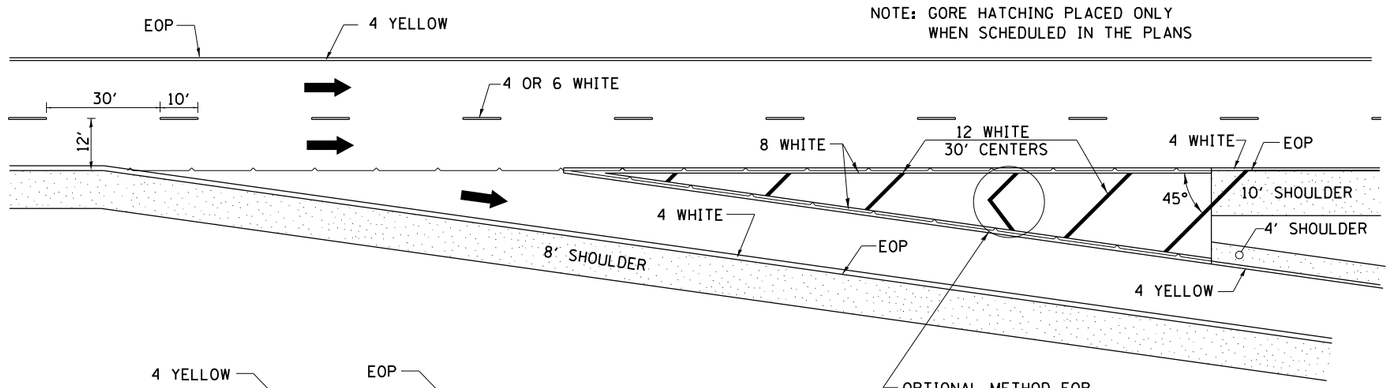


FILE NAME = O:\BR\Doss_Winnebago\64L04 Repairs SN	USER NAME = dossdd	DESIGNED - ___	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	101-0127 and 101-0128\CADD\D2-017-16-sht-cover.dgn	DRAWN - ___	REVISED - 8-27-13			734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	23
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ___	REVISED - 11-28-12					CONTRACT NO. 64L04		
	PLOT DATE = Jan-29-2016 07:54:09 AM	DATE - ___	REVISED - ___		SCALE: ___ SHEET NO. __ OF ___ SHEETS STA. ___ TO STA. ___	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

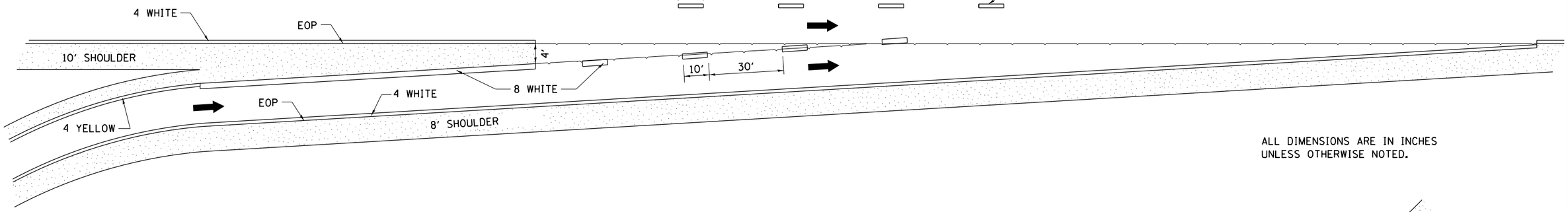
PAINTING DETAILS

CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4'' WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6'' WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

EXIT RAMP

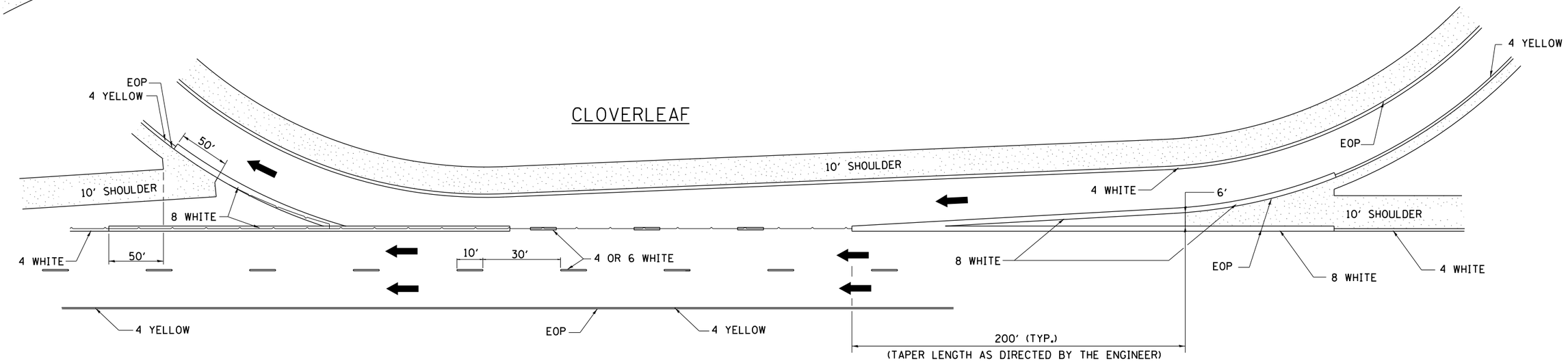


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



FILE NAME = O:\BR\Doss_Winnebago\64L04 Repairs SN	USER NAME = dossdd	DESIGNED - ___	REVISED - 8-27-13	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**REGION 2 / DISTRICT 2 STANDARD**
	101-0127 and 101-0128\CADD\D2-017-16-sht-cover.dgn	DRAWN - ___	REVISED - 10-18-11		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ___	REVISED - ___		SCALE: _____ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____
	PLOT DATE = Jan-29-2016 07:54:15 AM	DATE - _____	REVISED - ___		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 JOINT REPAIR 2016-1	WINNEBAGO	30	24
		CONTRACT NO. 64L04		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

Bench Mark: N.E. corner of the N.B. structure #101-0128 Elev. 768.34
Existing Structure: #101-0127 (S.B.) & #101-0128 (N.B.) are 264'-11" Bk. to Bk. Abuts. and 36'-0" O. to O. of deck.
The existing dual structures consist of a four span continuous WF beam supporting a 7" RC. deck.
Built as S.B.I. Rte. 2 Section 77-1HVB at Sta. 223+07.95 in 1967.
The traffic shall be maintained during the rehabilitation of the existing structures utilizing stage construction.

No Salvage.

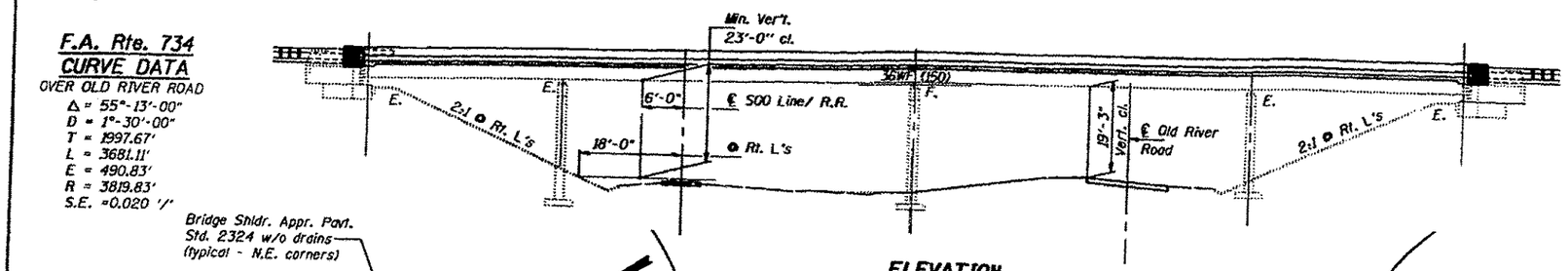
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	NO. SHEETS
F.A. 734	77-1HVBR	WINNEBAGO	126	BE

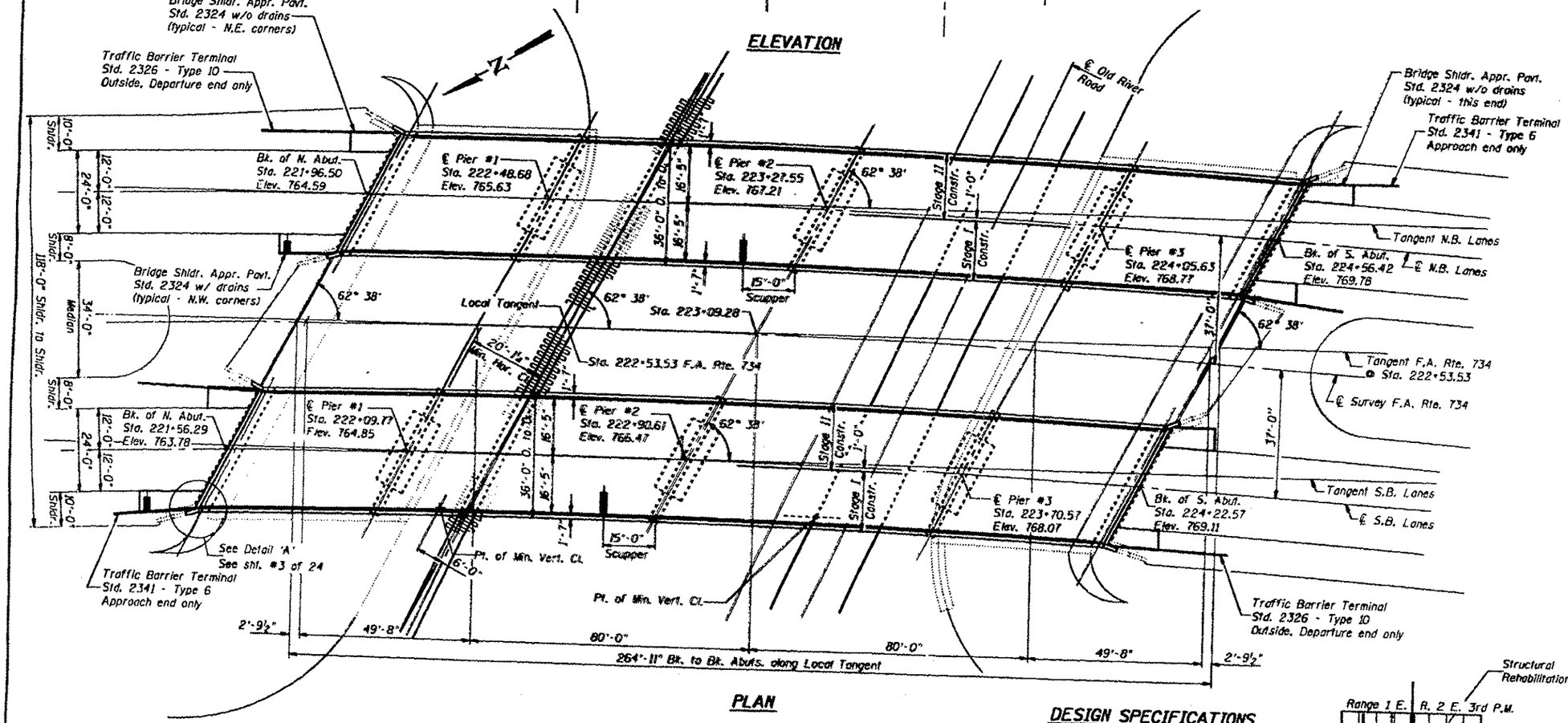
SHEET NO. 1
24 SHEETS

F.A. Rte. 734
CURVE DATA
OVER OLD RIVER ROAD

Δ = 55°-13'-00"
D = 1°-30'-00"
T = 1997.67'
L = 3681.11'
E = 490.83'
R = 3819.83'
S.E. = 0.020 '/'



ELEVATION



PLAN

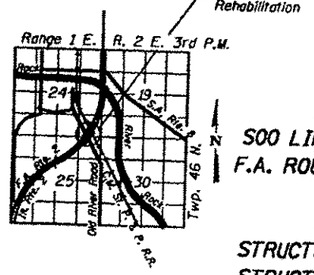
DESIGNED Kenneth A. Metzger
CHECKED Paul A. Johnson
Paul W. Sweet
DRAWN John F. Schaeller Jr.
CHECKED C'HAI PSS

MARCH 12 19 91

EXAMINED David D. Leggar
DIVISION OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED
DIRECTOR OF HIGHWAYS

DESIGN SPECIFICATIONS
AASHTO 1989 and Seismic Retrofitting Guidelines for Highway Bridges
LOADING HS 20-44
Allow 25#/sq. ft. for future wearing surface.
DESIGN STRESSES
NEW CONSTRUCTION
f'_c = 3,500 psi
f_y = 60,000 psi (Reinf.)

f_y = 36,000 psi (A-36 Structural Steel) (Existing)
f_y = 36,000 psi (M183) (New Steel)



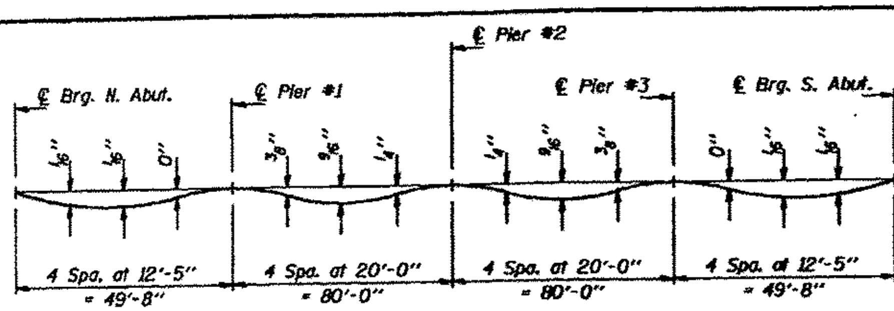
LOCATION SKETCH

GENERAL PLAN
ILL. ROUTE 2 OVER
S00 LINE R.R. & OLD RIVER ROAD
F.A. ROUTE 734 SECTION 77-1HVBD
WINNEBAGO COUNTY
STATION 223+09.28
STRUCTURE NUMBER 101-0127 (S.B.)
STRUCTURE NUMBER 101-0128 (N.B.)

FOR INFORMATION ONLY

F.A. 734	77-IHVBD	WINNEBAGO	126	85	SHEET NO. 5 24 SHEETS

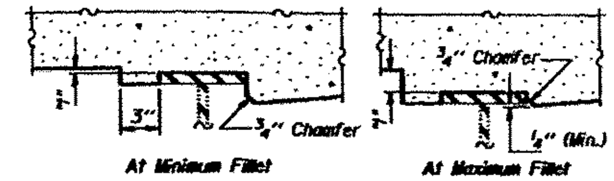
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DEAD LOAD DEFLECTION DIAGRAM

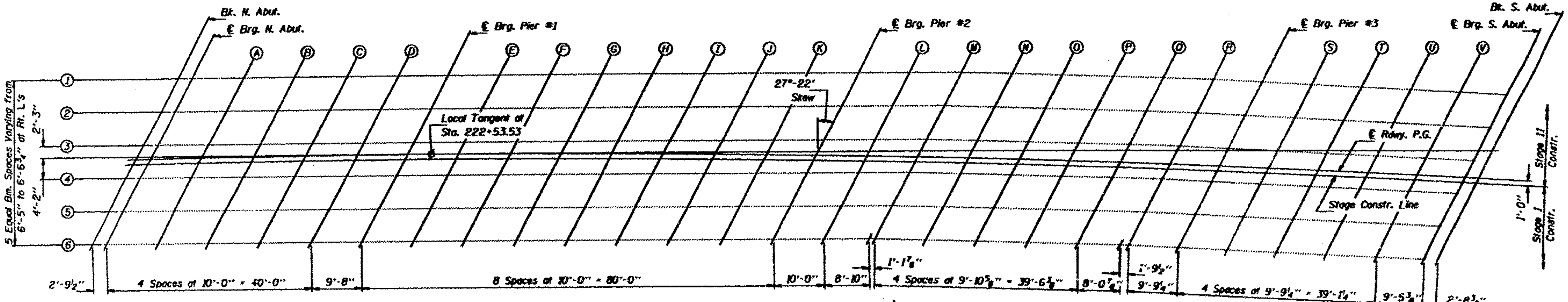
(Includes weight of concrete only)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

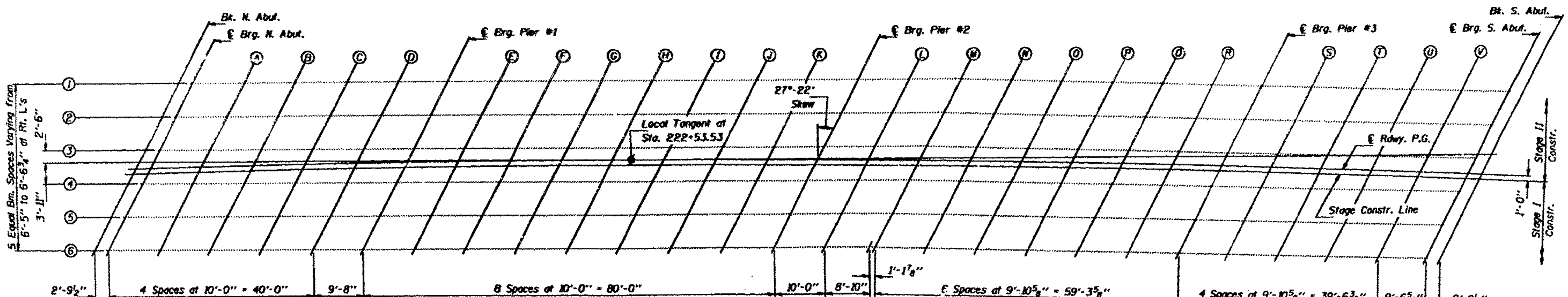


To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets #6 & #7 of 24, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN - NORTH BOUND LANES



PLAN - SOUTH BOUND LANES

Note: All dimensions are along the beam lines.

DESIGNED	[illegible]
CHECKED	Paul S. Johnson
DRAWN	John F. Schueller Jr.
CHECKED	CWM P.J.

March 12 1991

EXAMINED [illegible]
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

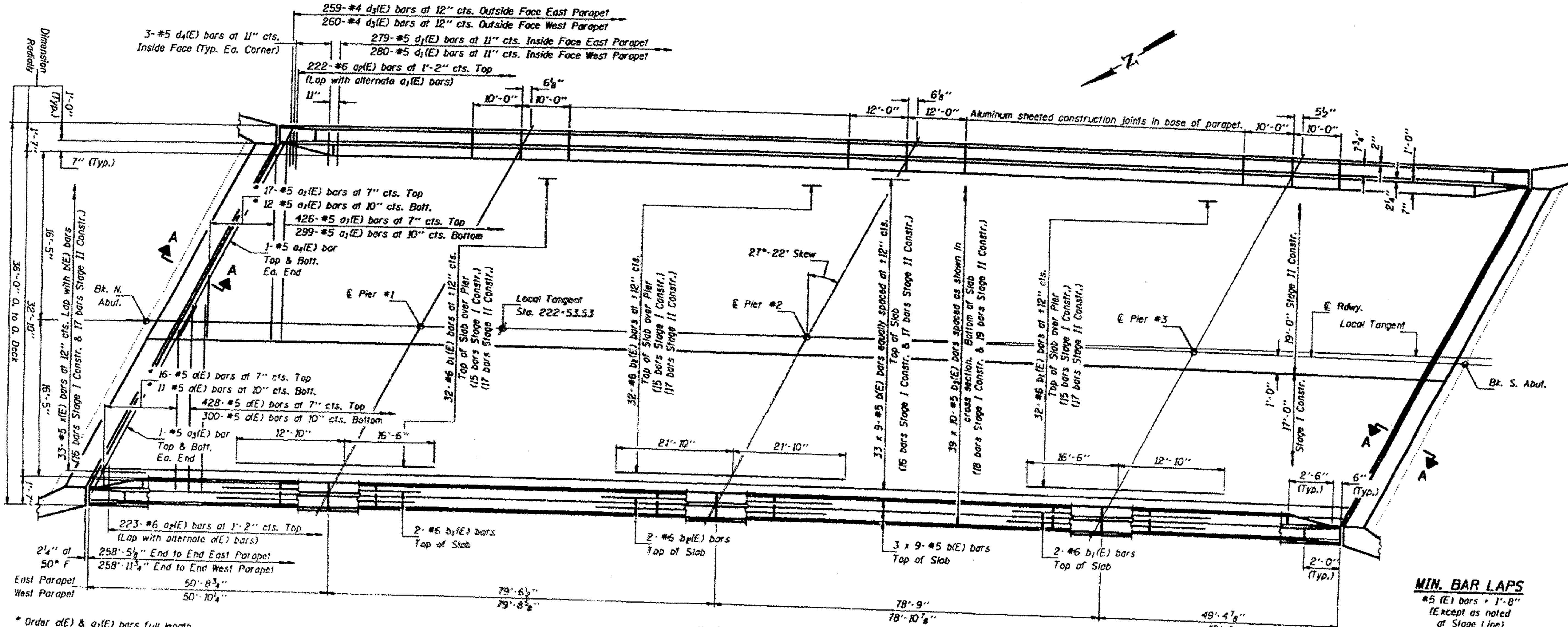
APPROVED
DIRECTOR OF HIGHWAYS

TOP OF SLAB ELEVATIONS
F.A. RT. 734 SEC. 77-1HVBD
WINNEBAGO COUNTY
STA. 223+09.28

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. 734	77-1HVBD	WINNEBAGO	126	86	SHEET NO. 8
					24 SHEETS



PLAN

* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MIN. BAR LAPS
#5 (E) bars = 1'-8"
(Except as noted at Stage Line)

Notes:
See Sheet #10 of 24 for Cross Section and Section A-A.
See Sheet #11 of 24 for superstructure details, parapet reinforcement and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
All b(E) thru b2(E) bars shall be placed along the curve.

DESIGNED	[illegible]
CHECKED	[illegible]
DRAWN	John F. Schneller Jr.
CHECKED	CHM

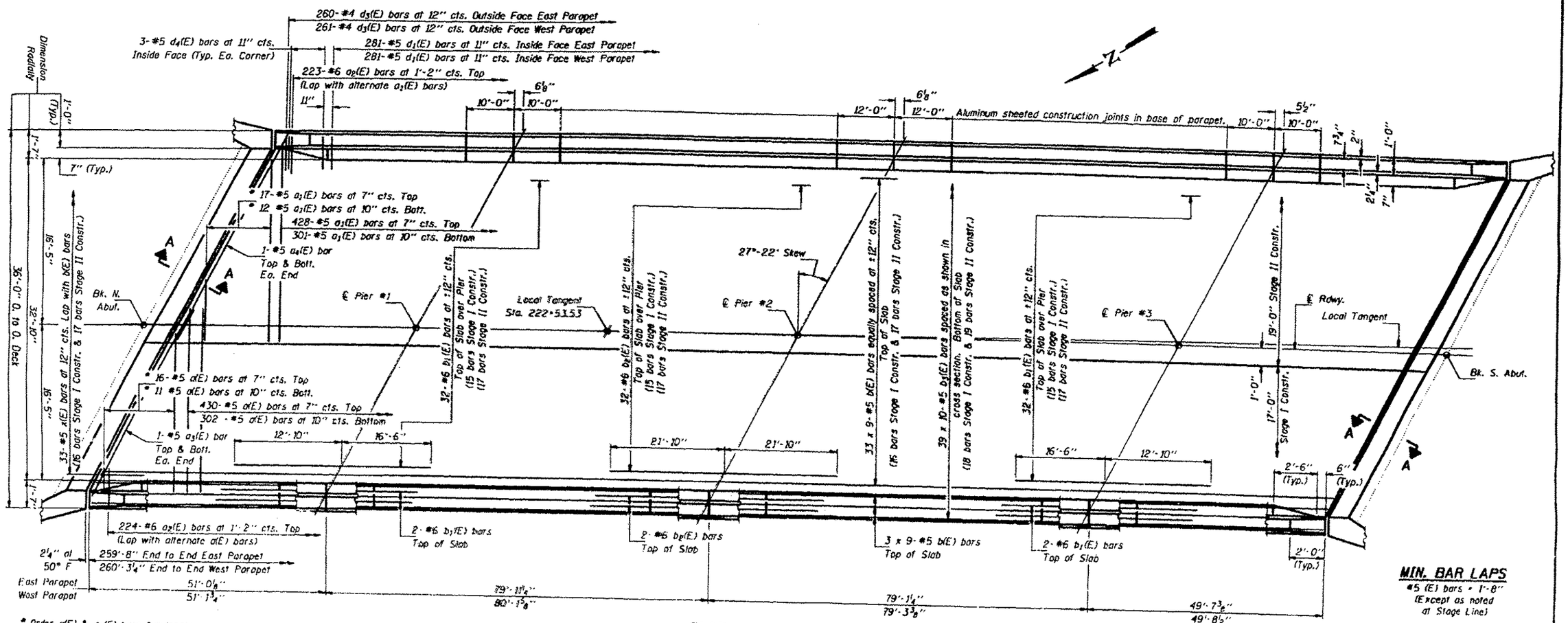
March 12 1991
EXAMINED [illegible]
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED
DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE
NORTH BOUND LANES
F.A. RT. 734 SEC. 77-1HVBD
WINNEBAGO COUNTY
STA. 223+09.28

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

					SHEET NO. 9
F.A. 734	77-IHVBD	WINNEBAGO	126	89	24 SHEETS



79'-3⅞"	79'-1¼"
80'-3⅝"	79'-3⅜"
51'-0⅛"	49'-7⅜"
51'-1¾"	49'-8½"

* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

PLAN

MIN. BAR LAPS
#5 (E) bars = 1'-8"
(Except as noted at Stage Line)

DESIGNED	Kuntyka-Hoffmann
CHECKED	Bill A. Johnson
DRAWN	John F. Schneller Jr.
CHECKED	CHM KJS

MARCH 12 1991

EXAMINED Engr. D. Kasper
DIVISION OF PUBLIC DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED
DIRECTOR OF HIGHWAYS

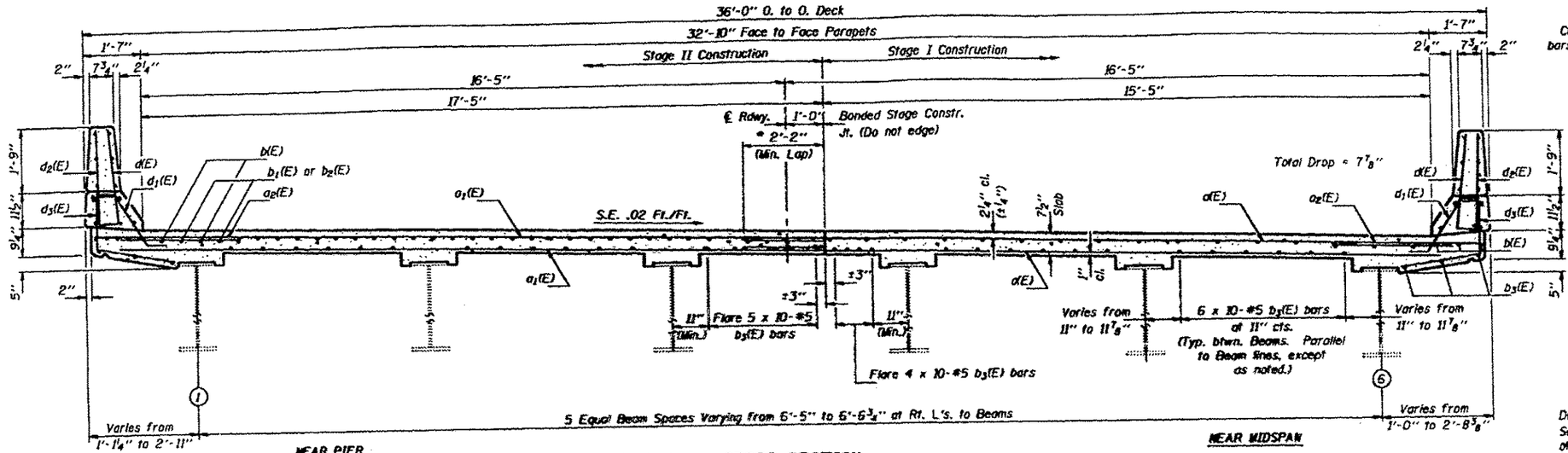
Notes:
See Sheet #10 of 24 for Cross Section and Section A-A.
See Sheet #11 of 24 for superstructure details, parapet reinforcement and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
All b(E) thru b2(E) bars shall be placed along the curve.

SUPERSTRUCTURE
SOUTH BOUND LANES
F.A. RT. 734 SEC. 77-1HVBD
WINNEBAGO COUNTY
STA. 223+09.28

FOR INFORMATION ONLY

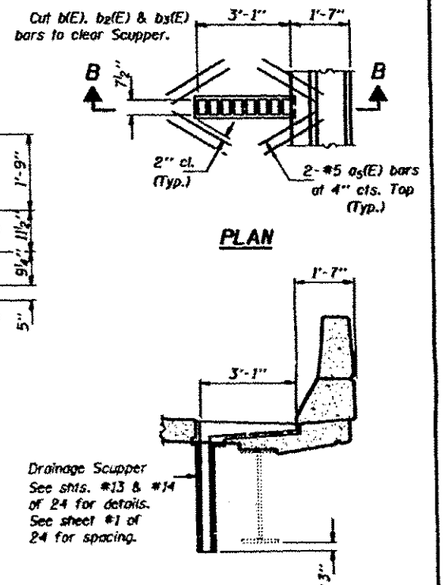
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

					SHEET NO. 10
F.A. 734	77-1HVBD	WINNEBAGO	1266	90	24 SHEETS



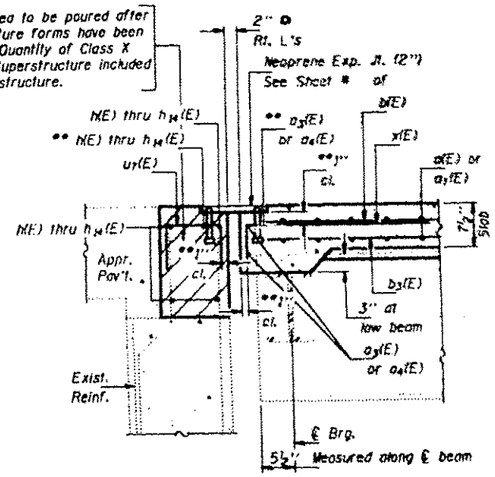
* Bars shall be tied with double the number of ties normally used.

CROSS SECTION
(Looking South)



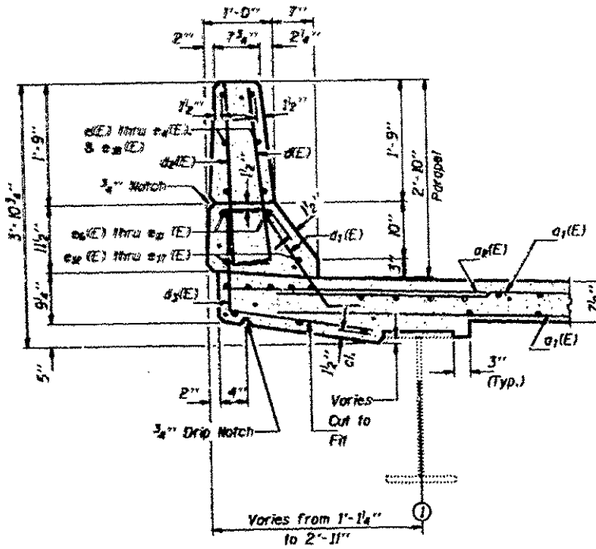
PLAN

SECTION B-B

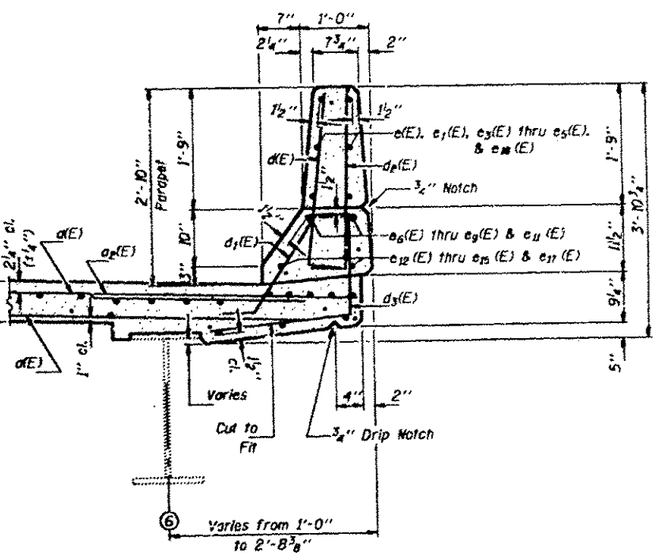


SECTION A-A

** Place $a_3(E)$ or $a_4(E)$ bars and h(E) thru $h_{14}(E)$ bars in back of anchor bolts as shown if required to maintain 1" cl. (+0-⅛"). Anchor bolts should be tied to $a_3(E)$ or $a_4(E)$ and h(E) thru $h_{14}(E)$ bars.



SECTION THRU EAST PARAPET



SECTION THRU WEST PARAPET

DESIGNED	Christopher M. Wehrmeyer	
CHECKED	Paul A. Johnson	
DRAWN	John F. Schneller Jr.	
CHECKED	CWM	TSO

March 12 1991

EXAMINED Greg O. Koepp
Division of Traffic Design

PASSED Ralph E. Anderson
Engineer of Bridges and Structures

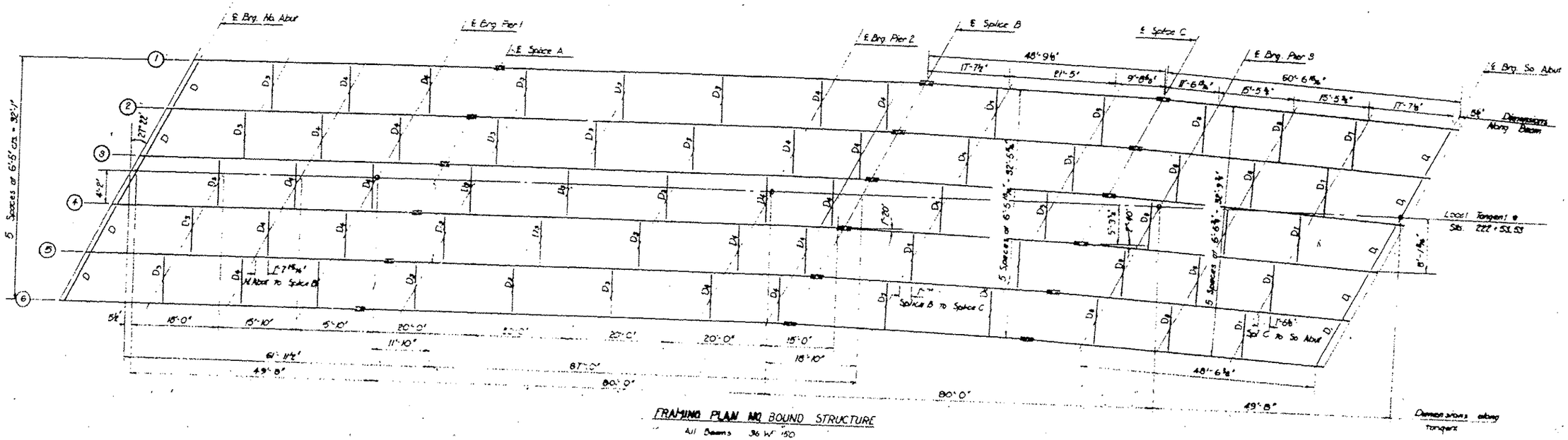
APPROVED
Director of Highways

SUPERSTRUCTURE DETAILS
F.A. RT. 734 SEC. 77-1HVBD
WINNEBAGO COUNTY
STA. 223+09.28

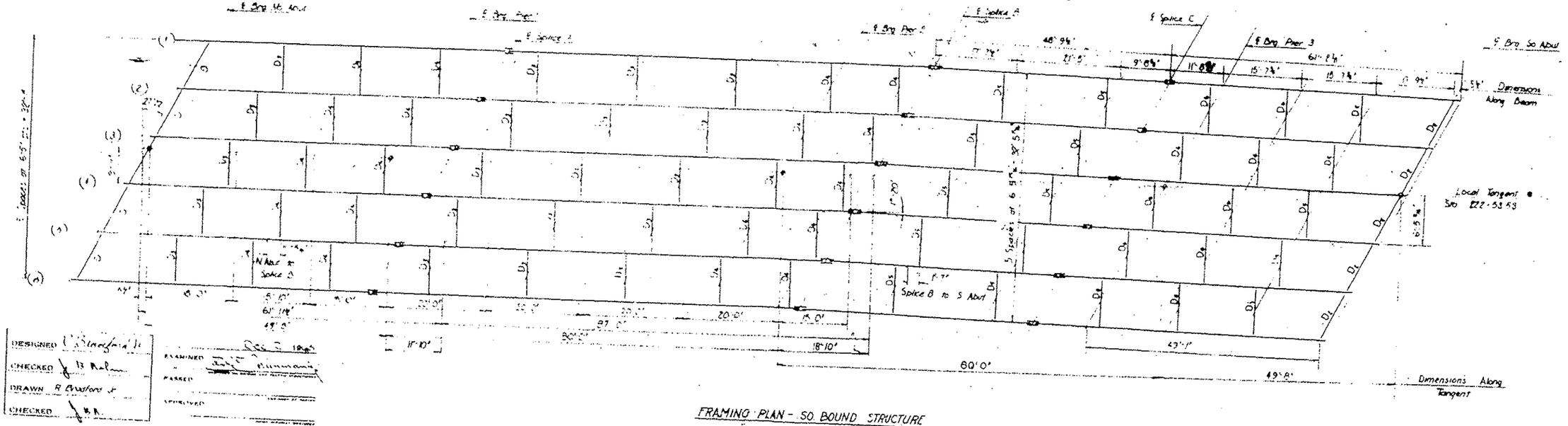
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

					SHEET NO. 8
F.A. 2	77-1/RB	WINNEBAGO	45	14	19 SHEETS



FRAMING PLAN NO BOUND STRUCTURE
All Beams 36 WF 150



FRAMING PLAN - SO BOUND STRUCTURE
All Beams 36 WF 150

DESIGNED R Bradford Jr
CHECKED H.R.
DRAWN R Bradford Jr
CHECKED H.R.
EXAMINED
PASSED
APPROVED

FRAMING PLAN
WINNEBAGO COUNTY
FA RTE 2 SEC. 77-1&RV/B
STA. 222+03.95

FOR INFORMATION ONLY