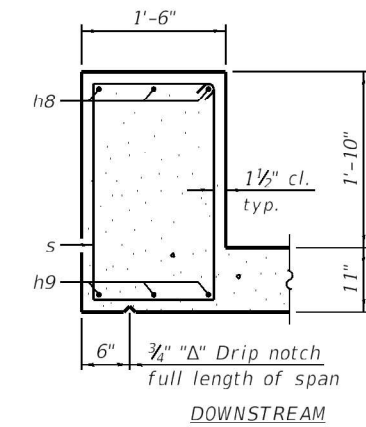


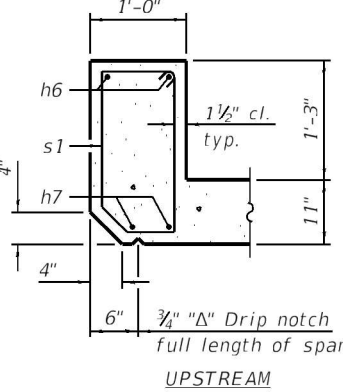
SECTION THRU BARREL  
(Looking Downstream)



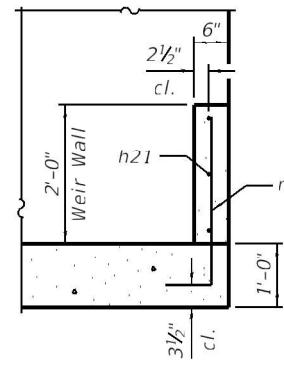
DOWNSTREAM

SECTION THRU HEADWALL

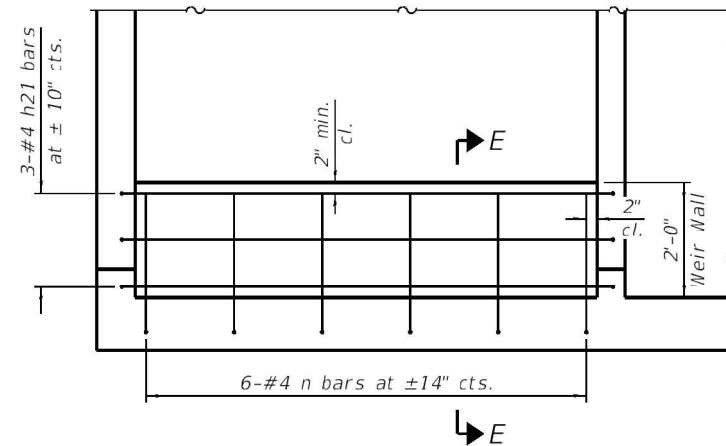
(Horizontal dimensions taken perpendicular to headwall skew)



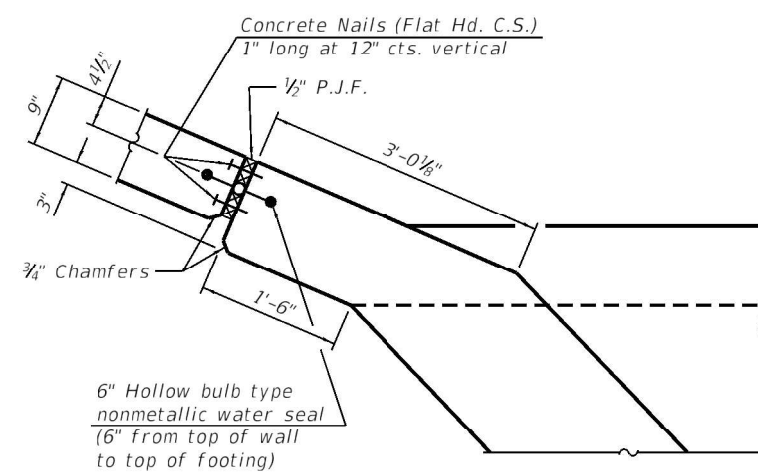
UPSTREAM



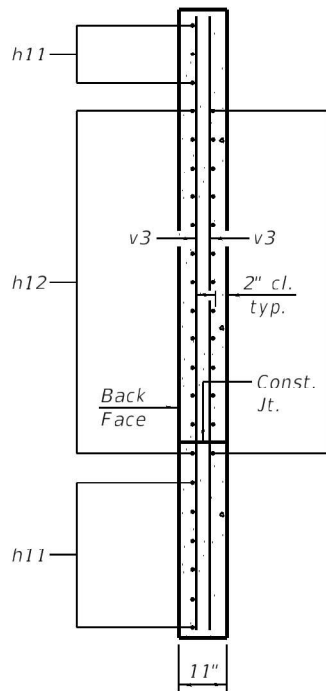
SECTION E-E



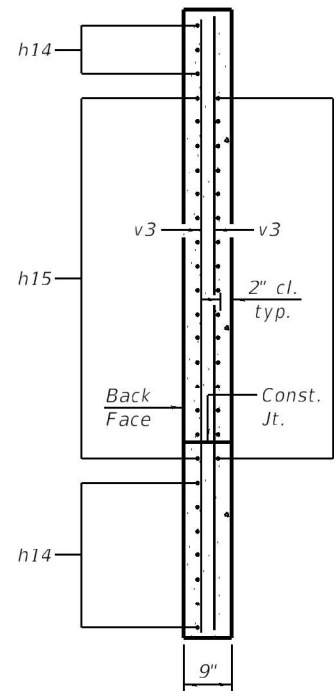
TYPICAL WEIR WALL REINFORCEMENT DETAIL



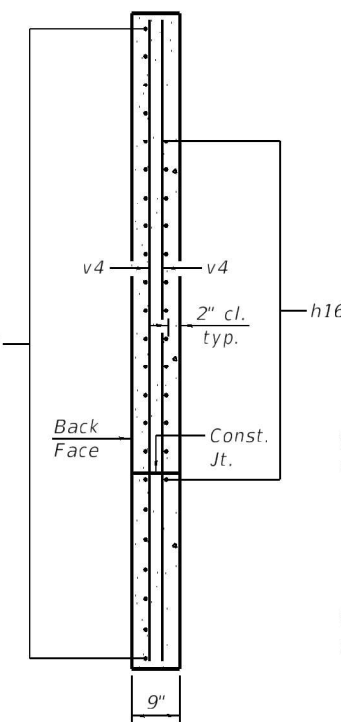
CORNER DETAIL



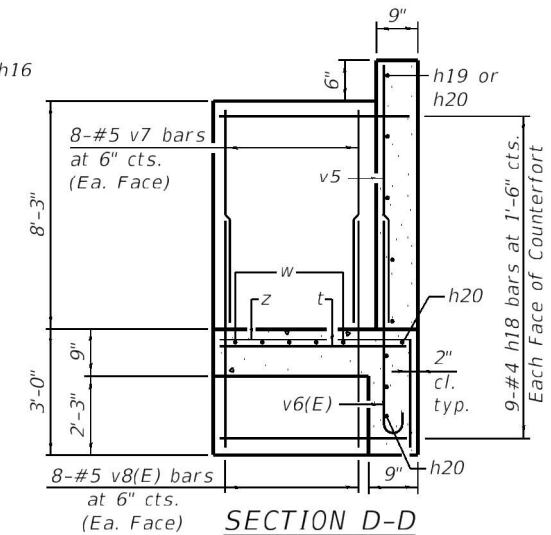
SECTION A-A



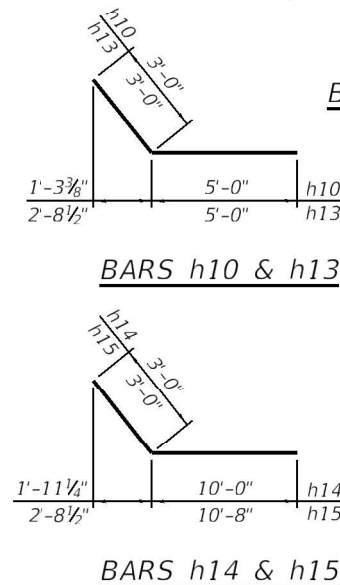
SECTION B-B



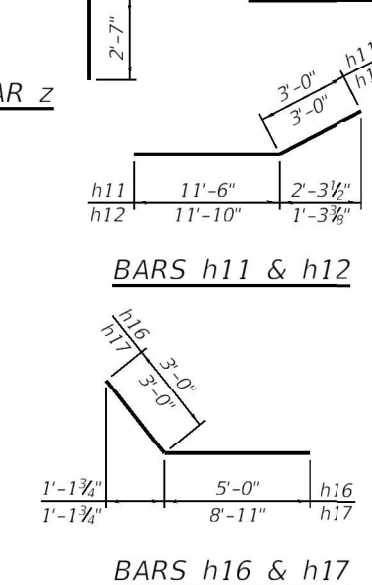
SECTION C-C



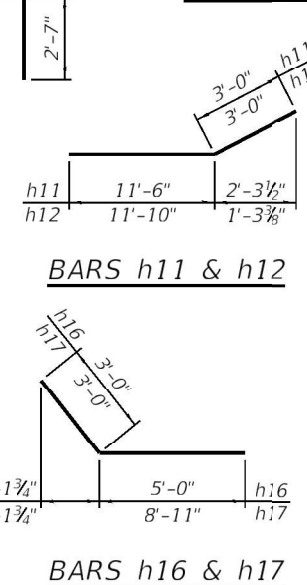
SECTION D-D



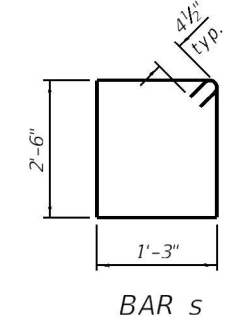
BARS h10 & h13



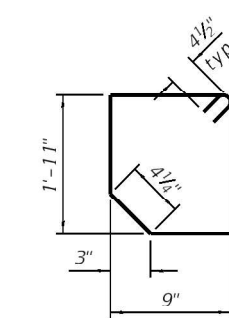
BARS h14 & h15



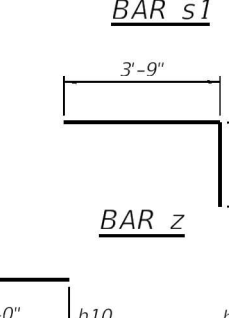
BARS h16 & h17



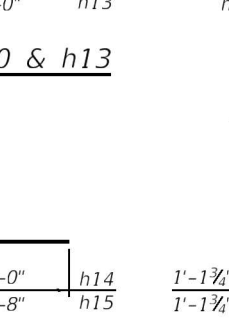
BAR v1



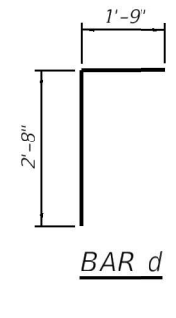
BAR n



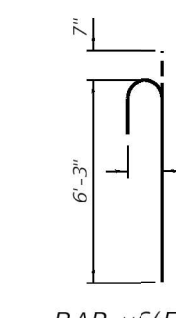
BAR s



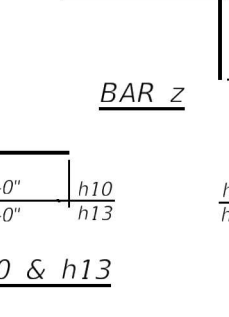
BAR s1



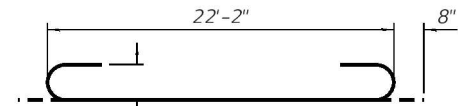
BAR d



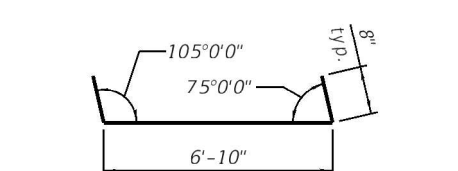
BAR v6(E)



BAR z



BAR a1



BAR h21

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a1	442	#6	23'-6"	
a2	442	#6	22'-2"	
d	46	#4	4'-5"	
h	224	#5	26'-10"	
h1	280	#5	24'-7"	
h2	28	#4	23'-2"	
h3	28	#4	29'-10"	
h4	28	#4	25'-3"	
h5	28	#4	27'-11"	
h6	2	#7	22'-1"	
h7	4	#6	22'-1"	
h8	3	#7	28'-10"	
h9	6	#6	28'-10"	
h10	13	#7	8'-0"	
h11	9	#7	14'-6"	
h12	13	#7	14'-10"	
h13	16	#6	8'-0"	
h14	10	#6	13'-0"	
h15	16	#6	13'-8"	
h16	13	#6	8'-0"	
h17	23	#6	11'-11"	
h18	18	#4	4'-0"	
h19	7	#5	19'-11"	
h20	17	#5	19'-7"	
h21	6	#4	8'-2"	
h22	32	#6	4'-10"	
n	12	#4	3'-2"	
s	31	#4	8'-3"	
s1	23	#4	6'-0"	
t	8	#4	4'-0"	
v	887	#4	6'-1"	
v1	887	#4	3'-10"	
v3	8	#4	10'-9"	
v4	4	#4	11'-4"	
v5	41	#5	8'-5"	
v6(E)	41	#5	6'-10"	
v7	16	#5	7'-11"	
v8(E)	16	#5	6'-3"	
v9	2	#5	11'-4"	
w	5	#5	32'-3"	
z	41	#5	6'-4"	
Concrete Box Culverts			Cu. Yd.	243.0
Reinforcement Bars			Pound	56,740
Reinforcement Bars, Epoxy Coated			Pound	400

MODEL: Default  
FILE NAME: K:\Projects\18-0009-0\HY 11-72 & State Street Bridge over Hampshire Creek Tributary C\CADD\CADD Sheets\0456032-62G11-207-Sections & Details.dgn  
4/15/2021 2:26:03 PM



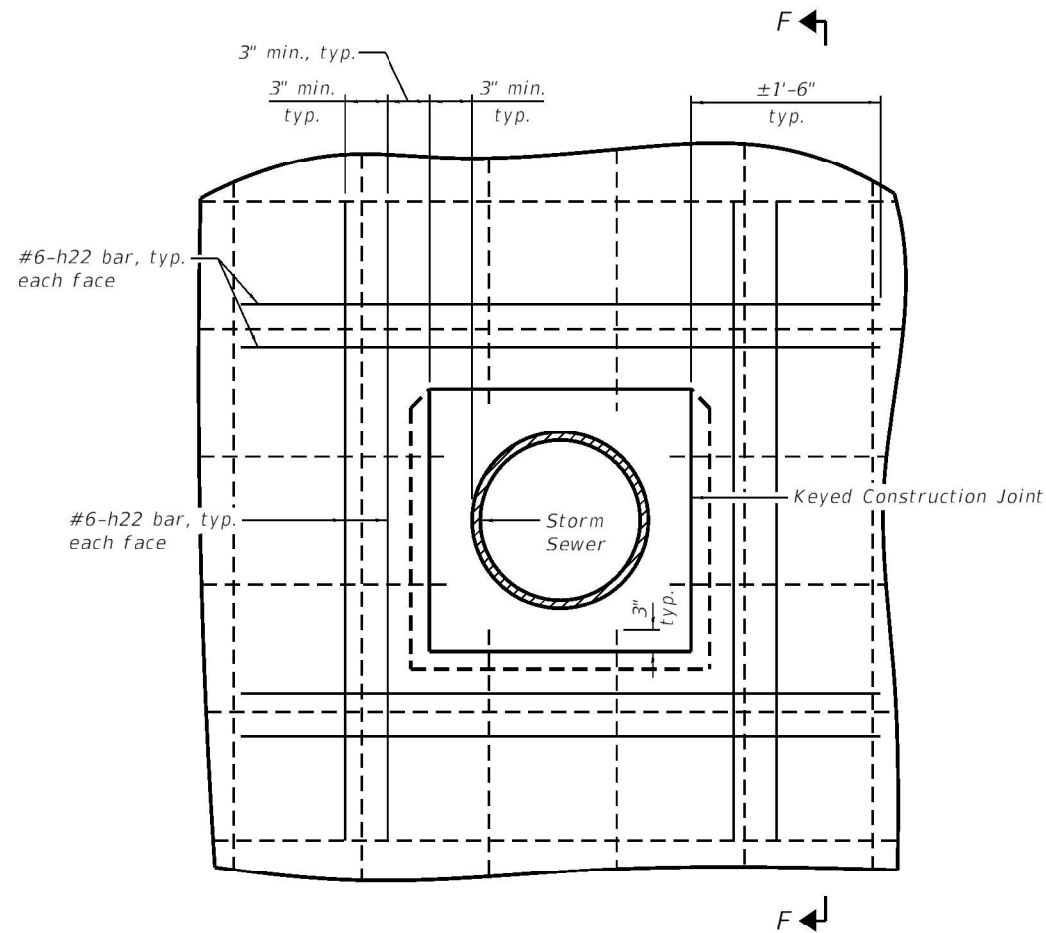
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Illinois Design Firm Number 184.001670	CHECKED - REB	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SECTIONS AND DETAILS  
STRUCTURE NO. 045-6032

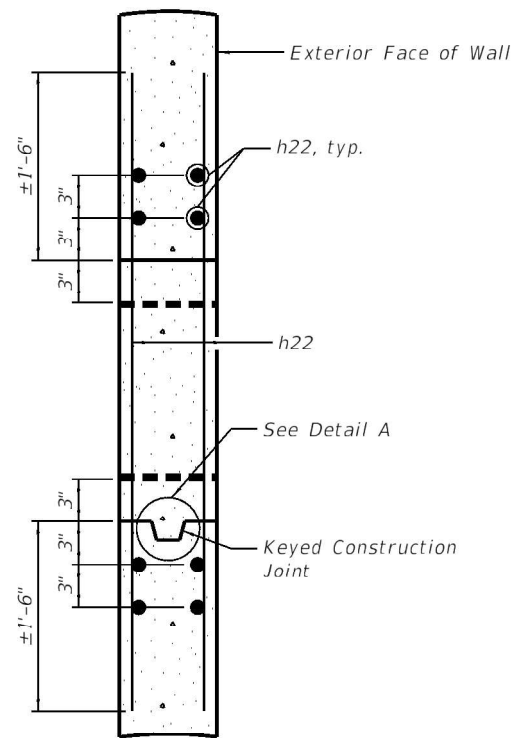
SHEET 7 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
98	32R-DR-1	KANE	236	201
STRUCTURE NO. 045-6032			CONTRACT NO. 62G11	
ILLINOIS		FED. AID PROJECT		

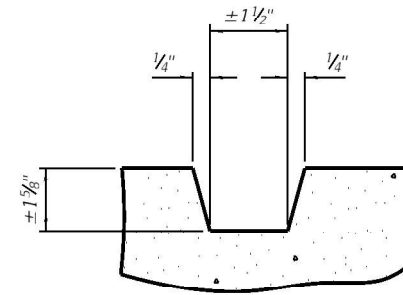


**PIPE INLET BLOCKOUT DETAIL -  
PARTIAL ELEVATION OF EXTERIOR WALL**

Note: Extend plan reinforcing bars into pipe block-out as shown.



**SECTION F-F**



**DETAIL A  
(Keyed Construction Joint)**

**PIPE INLET BLOCKOUT LOCATIONS**

LOCATION	Station	Offset	Invert	Pipe I.D.
North Exterior Wall	201+74.87	34.96 Rt.	892.00	12"
North Exterior Wall	201+84.35	25.48 Rt.	892.00	12"

Note: Pipe inlet blockout locations are included for information only. See the Roadway Plans for location, size, and type of pipe.

**Notes:**

- Dashed bars represent plan reinforcement.
- Solid bars indicate additional #6 h22 bars.
- Bar clear cover from the face of concrete shall be 2" minimum.
- See Roadway Plans for drainage details.
- Place 5/16" joint filler around reinforced concrete pipe at pipe inlet.
- Cut or adjust h22 bars as required to avoid conflict with the top and bottom slab construction joints.
- See sheet 7 of 9 for Bill of Materials.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIPE INLET BLOCKOUT DETAILS  
STRUCTURE NO. 045-6032**

SHEET 8 OF 9 SHEETS

F.A.P. RTE. 98	SECTION 32R-DR-1	COUNTY KANE	TOTAL SHEETS 236	SHEET NO. 202
STRUCTURE NO. 045-6032			CONTRACT NO. 62G11	
ILLINOIS FED. AID PROJECT				



# SOIL BORING LOG

Date 3/26/20

ROUTE IL Route 72 DESCRIPTION IL Route 72 at State Street LOGGED BY PS  
 SECTION 32R-DR-1 LOCATION Hampshire, IL, SEC., TWP., RNG. Latitude 42.0889778, Longitude -88.5301358  
 COUNTY Kane DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	045-6032	DEPT	B	U	M	Surface Water Elev.	N/A	ft	DEPT	B	U	M
Station	201+93.80	H	LO	CS	OIS	Stream Bed Elev.	N/A	ft	H	LO	CS	OIS
BORING NO.	CB-1	T	W	S	T	Groundwater Elev.:			H	W	S	T
Station	202+41	S	Qu			First Encounter	883.2	ft	Qu			
Offset	7.56ft LT		(ft)	(/6")	(tsf)	Upon Completion	N/A	ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev.	896.71					After N/A Hrs.	N/A	ft				
11 inches of Asphalt	895.80					Very Stiff						
Brown, Moist			7			Brown, Moist						
FILL: SILTY CLAY, with sand, trace gravel			3	1.5	10	SILTY CLAY, with sand, trace gravel (CL/ML) (continued)	875.21		10			11
			3	P		Medium Dense to Dense			6			
	893.21					Brown, Moist						
Soft to Stiff			1			SAND, trace gravel (SP)						
Brown, Moist			1	0.4	17				20			
FILL: SILTY CLAY, with sand, trace gravel (CL/ML)			3	B					24			8
			3			End of Boring	871.71	-25	17			
			2									
			3	1.0	12							
			4	B								
			3									
Very Loose to Loose	887.21		2	1.0	9							
Brown, Wet			3	B								
SAND, trace gravel (SP)												
			2		17							
			3									
			1									
			1		15							
			1									
			1									
			2		19							
			5									
	878.21											
			10									
			10	2.5	13							
			13	B								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



# SOIL BORING LOG

Date 3/26/20

ROUTE IL Route 72 DESCRIPTION IL Route 72 at State Street LOGGED BY PS  
 SECTION 32R-DR-1 LOCATION Hampshire, IL, SEC., TWP., RNG. Latitude 42.0886573, Longitude -88.5300588  
 COUNTY Kane DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	045-6032	DEPT	B	U	M	Surface Water Elev.	N/A	ft	DEPT	B	U	M
Station	201+93.80	H	LO	CS	OIS	Stream Bed Elev.	N/A	ft	H	LO	CS	OIS
BORING NO.	CB-2	T	W	S	T	Groundwater Elev.:			H	W	S	T
Station	201+24	S	Qu			First Encounter	878.3	ft	Qu			
Offset	12.88ft RT		(ft)	(/6")	(tsf)	Upon Completion	N/A	ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev.	896.82					After N/A Hrs.	N/A	ft				
10 inches of Asphalt	895.99					Loose						
Brown, Moist			4			Brown, Moist						
FILL: SILTY CLAY, with sand, trace gravel			2	0.4	11	SAND, trace gravel (SP) (continued)	875.32		6			
			3	B		Very Stiff			8	3.3	13	
	893.32					Brown and Gray, Moist			10	B		
Medium Stiff to Hard			2			SILTY CLAY, trace gravel (CL/ML)						
Brown, Moist			3	0.6	18				6			
FILL: SILTY CLAY, with sand, trace gravel (CL/ML)			4	B		End of Boring	871.82	-25	8	2.1	13	
			7									
			7	1.8	18							
			9									
Sand seam at 7.5 feet			9	P								
			8	3.1	11							
			9	B								
			9									
			10	1.7	12							
			11	B								
			5									
			9	3.1	11							
			10	B								
			10									
Cobbles at 16-17.5 feet	879.82		18	4.5	10							
			14	P								
Loose												
Brown, Moist			7		12							
SAND, trace gravel (SP)			5									
			4									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

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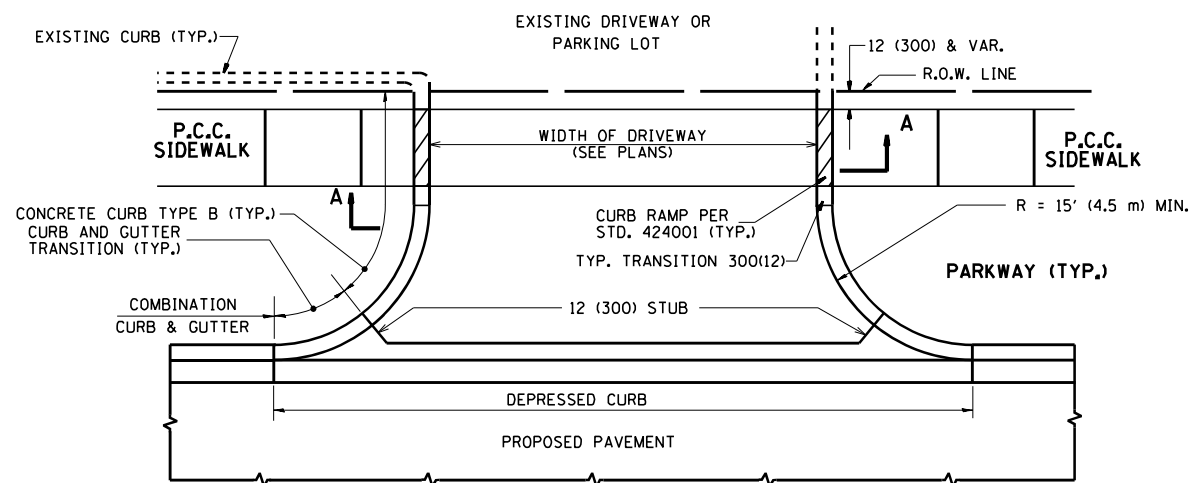
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

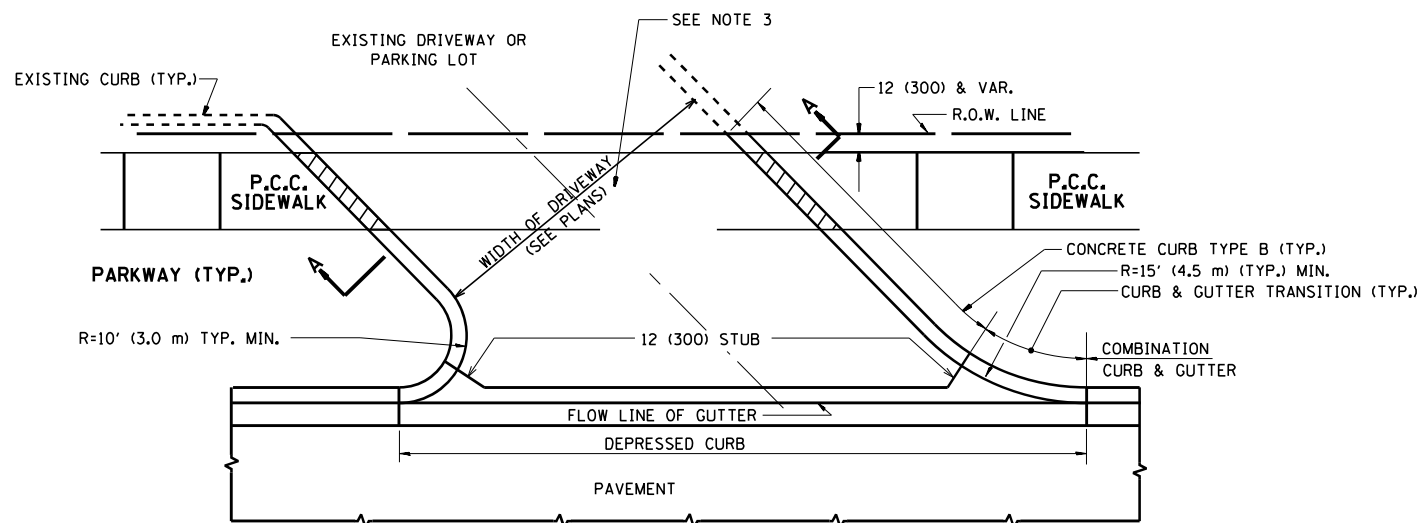
SOIL BORINGS  
 STRUCTURE NO. 045-6032

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STRUCTURE NO. 045-6032		CONTRACT NO. 62G11		
ILLINOIS		FED. AID PROJECT		

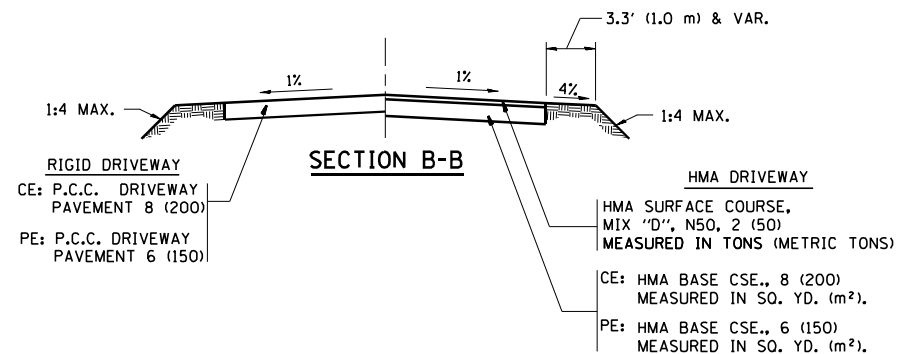
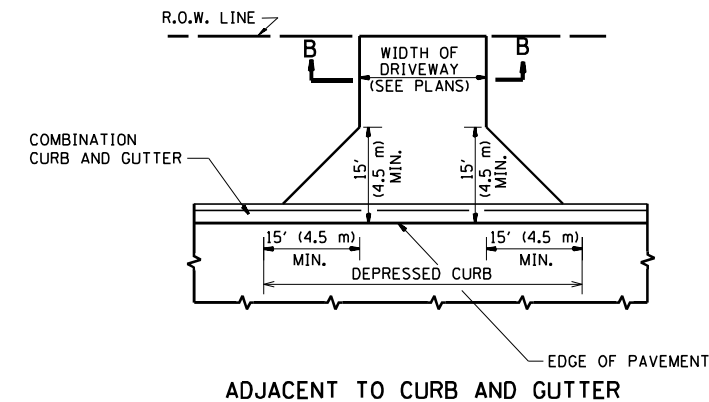
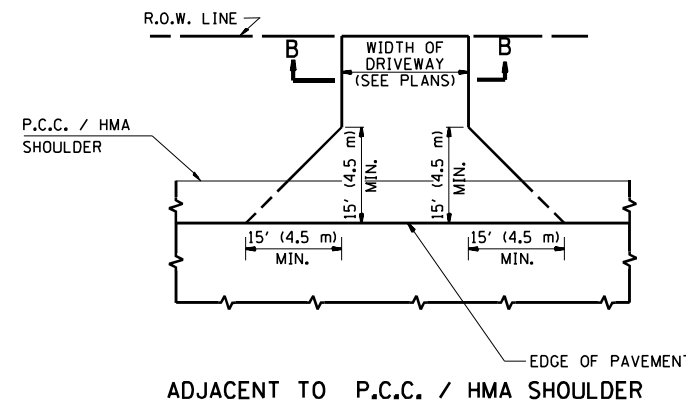
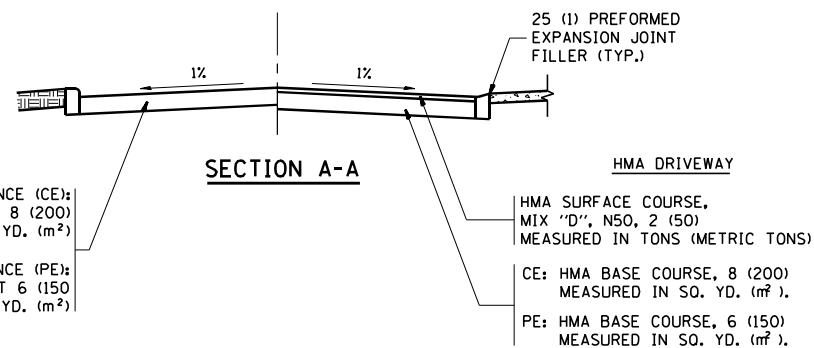
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**WITH CONCRETE CURB, TYPE B**



**WITH CONCRETE CURB, TYPE B**



**GENERAL NOTES:**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

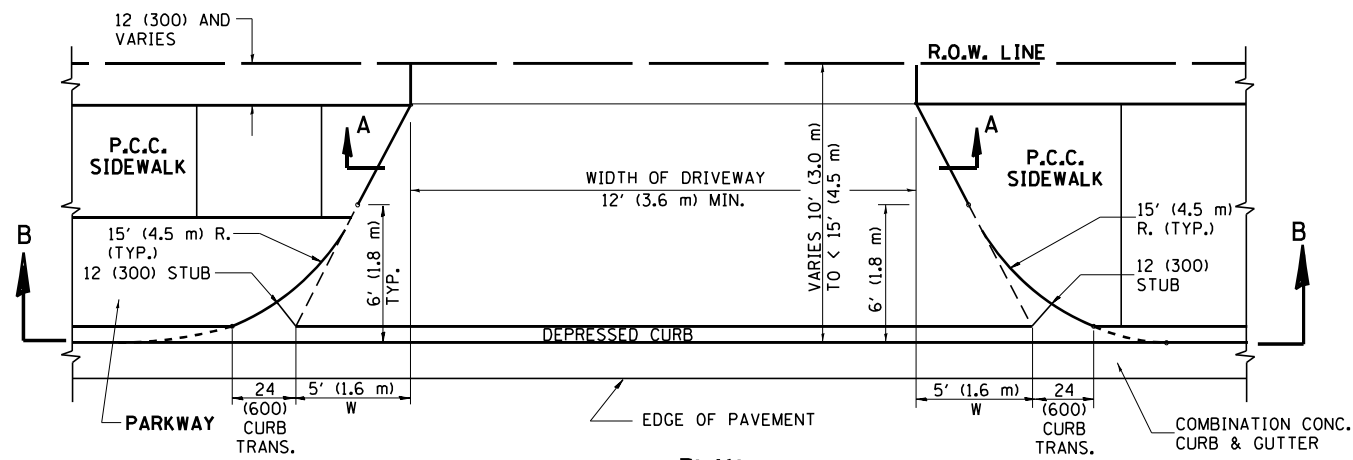


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PLOT DATE - 4/29/2021	DATE - 11/25/2020	REVISED - R. BORO 09-06-11

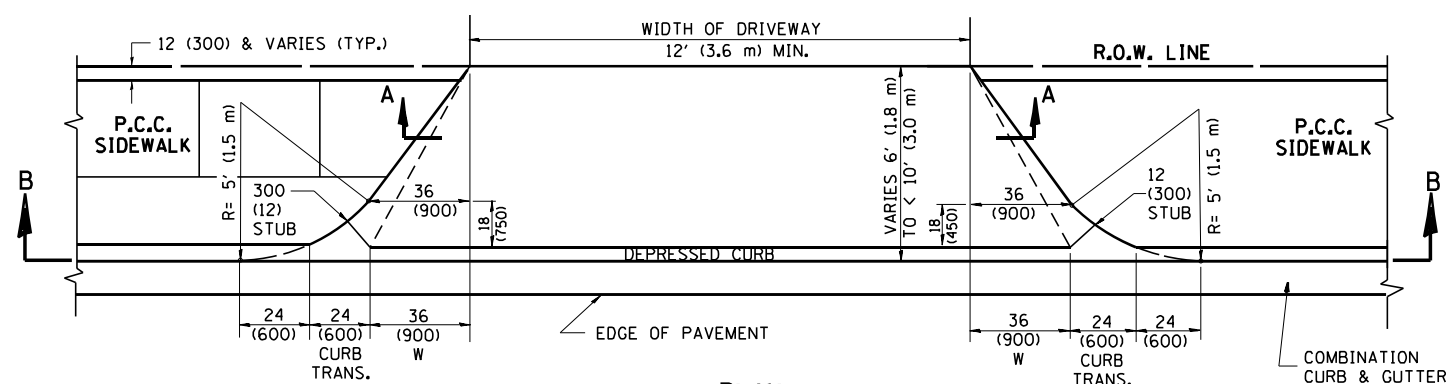
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS			
IL ROUTE 72 AND STATE STREET			
SCALBNONE	SHEET 1 OF 2 SHEETS	STA.	TO STA.

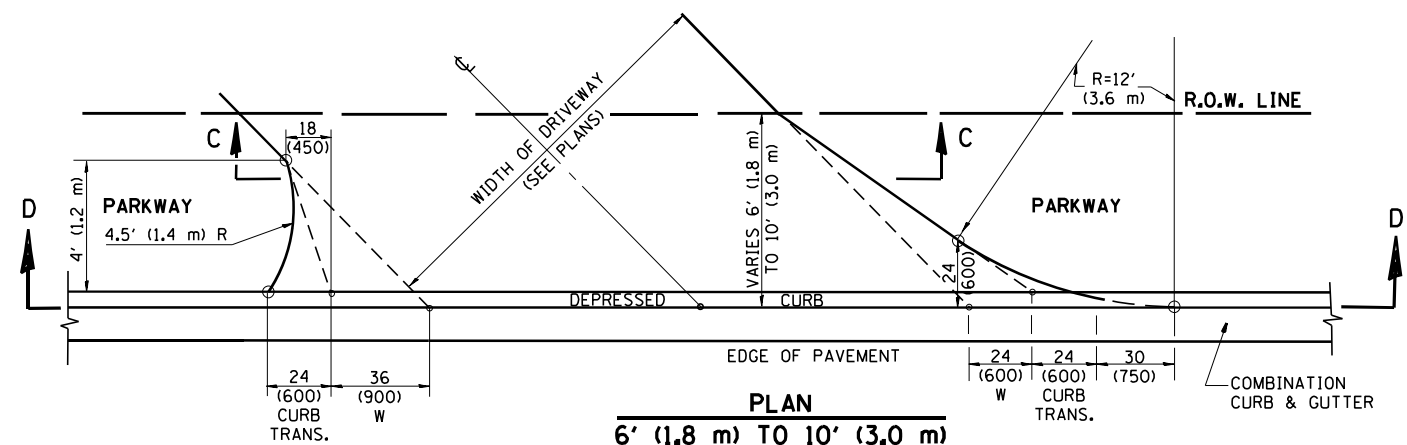
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD0156-07 (BD-01)			CONTRACT NO. 62G11	
ILLINOIS FED. AID PROJECT NHFP-K465(549)				



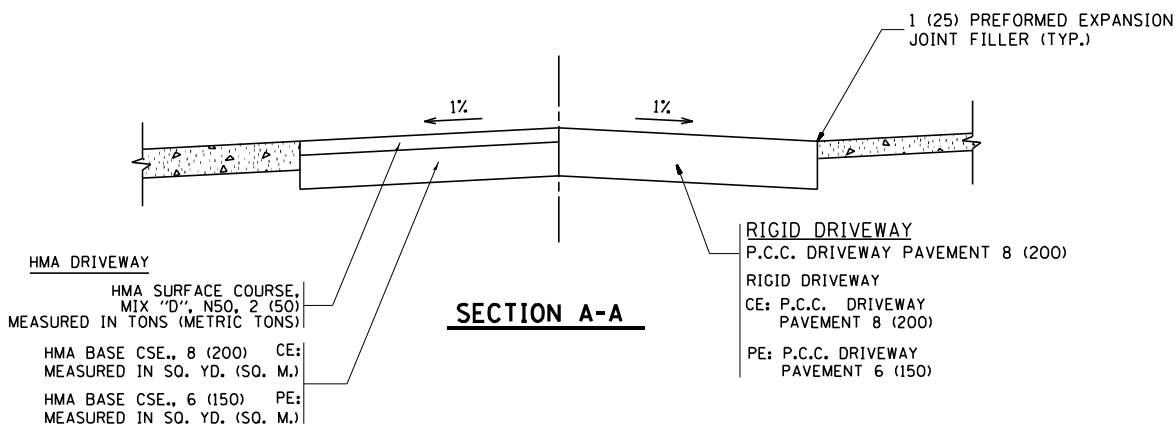
**PLAN**  
10' (3.0 m) TO < 15' (4.5 m)



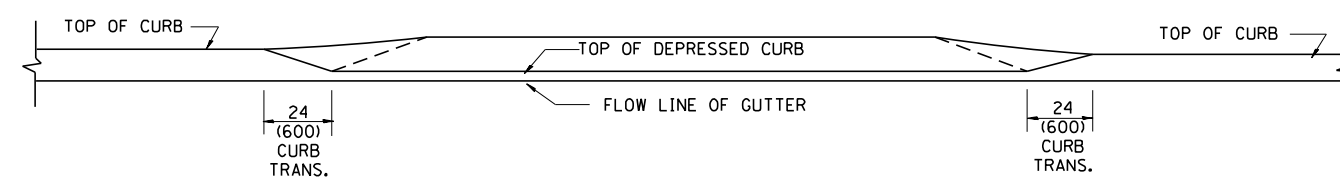
**PLAN**  
6' (1.8 m) TO < 10' (3.0 m)



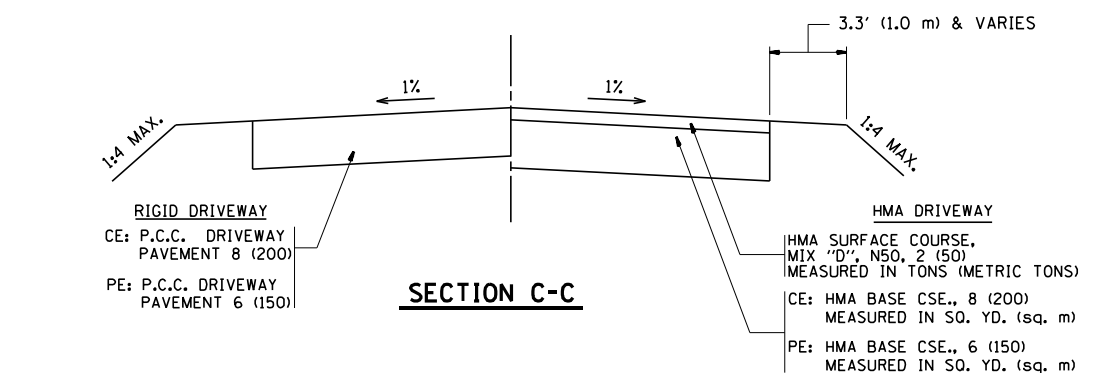
**PLAN**  
6' (1.8 m) TO 10' (3.0 m)



**SECTION A-A**



**SECTION C-C**



**SECTION D-D**

**GENERAL NOTES**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

FILE NAME: S:\Projects\418-2009\0418-72 & State Street\Design\CADD Sheets\0162011-shr-Drivway details.dgn

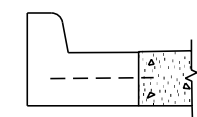
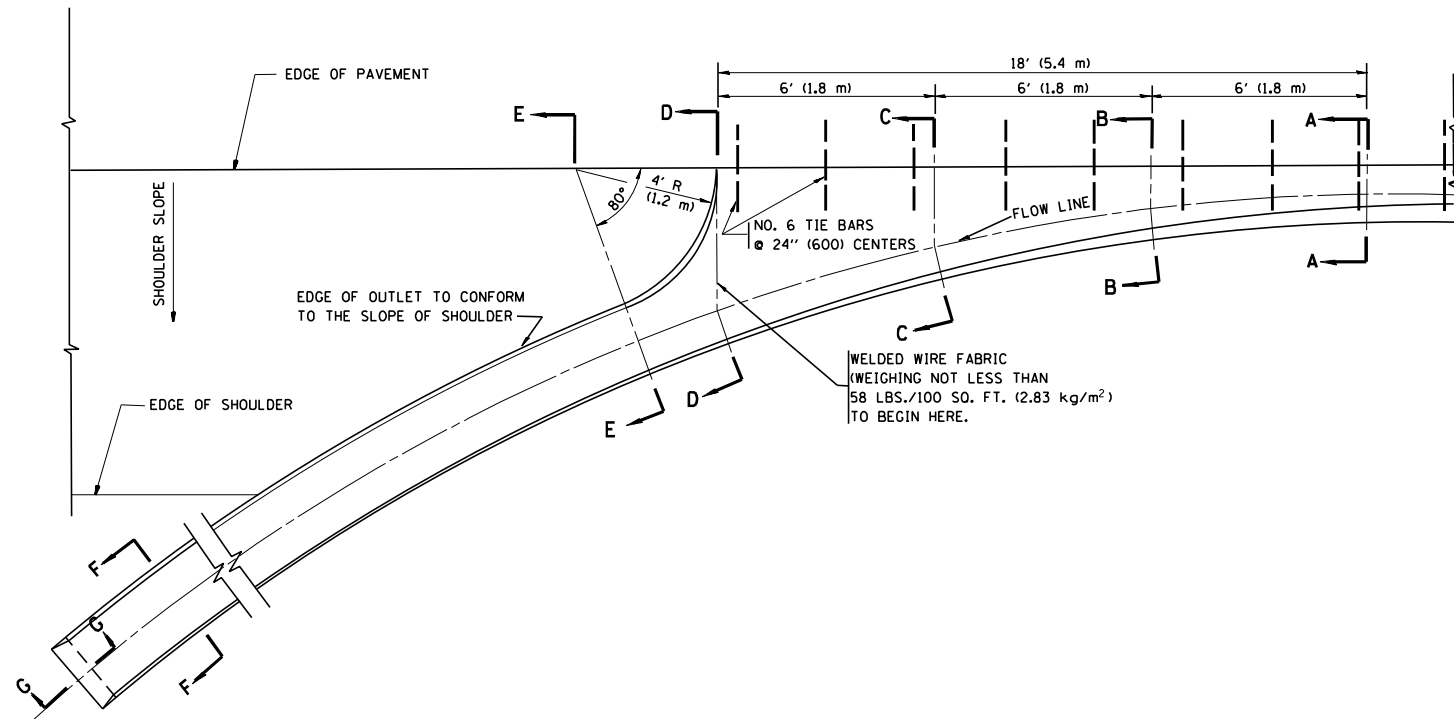


USER NAME + Betsy	DESIGNED - ESW	REVISED - M. GOMEZ 04-06-01
MODEL NAME + BD-02	DRAWN - LEC	REVISED - P. LOFLEUR 04-15-03
PLOT SCALE + 40,00001 / in.	CHECKED - BRM	REVISED - R. BORO 01-01-07
PLOT DATE + 4/29/2021	DATE - 11/25/2020	REVISED - R. BORO 01-01-07

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

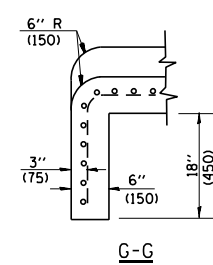
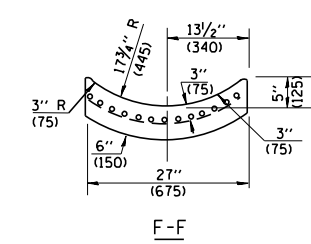
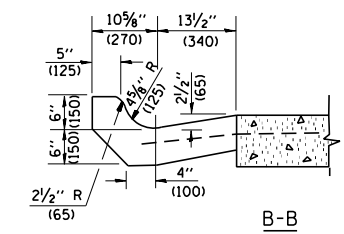
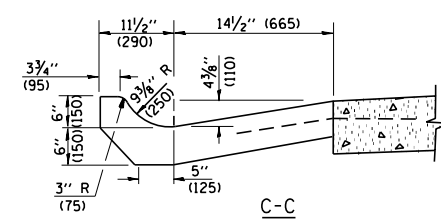
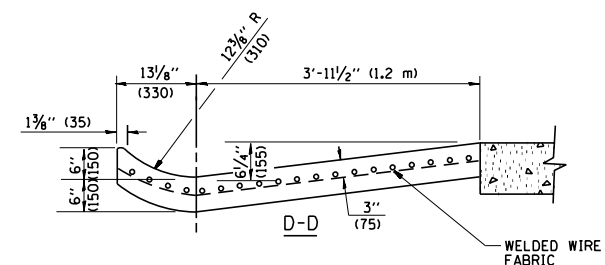
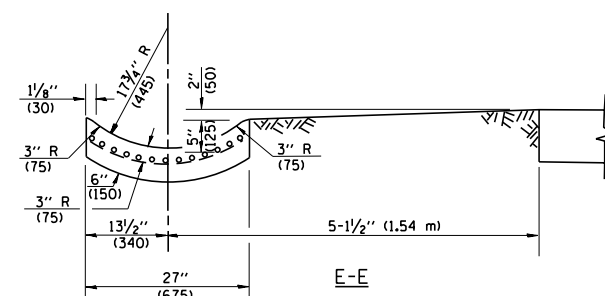
<b>DRIVEWAY DETAILS</b>			
<b>IL ROUTE 72 AND STATE STREET</b>			
SCALBNONE	SHEET 2 OF 2 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	205
<b>BD400-02 (BD-02)</b>			CONTRACT NO. 62G11	
ILLINOIS		FED. AID PROJECT NHP-4465(649)		



A-A \*

\* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



**GENERAL NOTES**

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24\" (600) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

**QUANTITIES**

FOR SECTION A-A TO E-E AND CURTAIN WALL =  
 1.25 CU. YDS. (0.96 m<sup>3</sup>) CLASS SI CONCRETE (OUTLET) FOR 9\" (225) PAV'T.  
 1.27 CU. YDS. (0.96 m<sup>3</sup>) CLASS SI CONCRETE (OUTLET) FOR 10\" (250) PAV'T.  
 FOR SECTION F-F =  
 0.045 CU. YDS. (0.03 m<sup>3</sup>) CLASS SI CONCRETE PER FT. (m).

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

FILE NAME: S:\Projects\418-2009\0418-72 & State Street Design\CADD Sheets\0162011-shr-District\_details.dgn

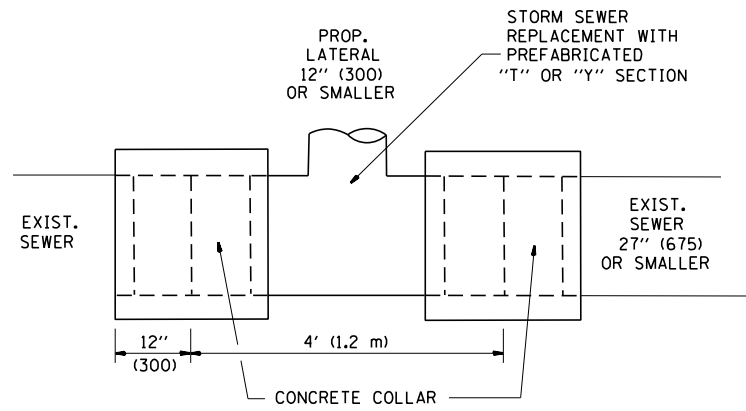


USER NAME	+ Betsy	DESIGNED	- ESW	REVISED	- R. SHAH 09-09-94
MODEL NAME	+ BD-03	DRAWN	- LEC	REVISED	- R. SHAH 10-25-94
PLOT SCALE	+ 40,0000' / in.	CHECKED	- BRM	REVISED	- E. GOMEZ 12-21-00
PLOT DATE	+ 4/29/2021	DATE	- 11/25/2020	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

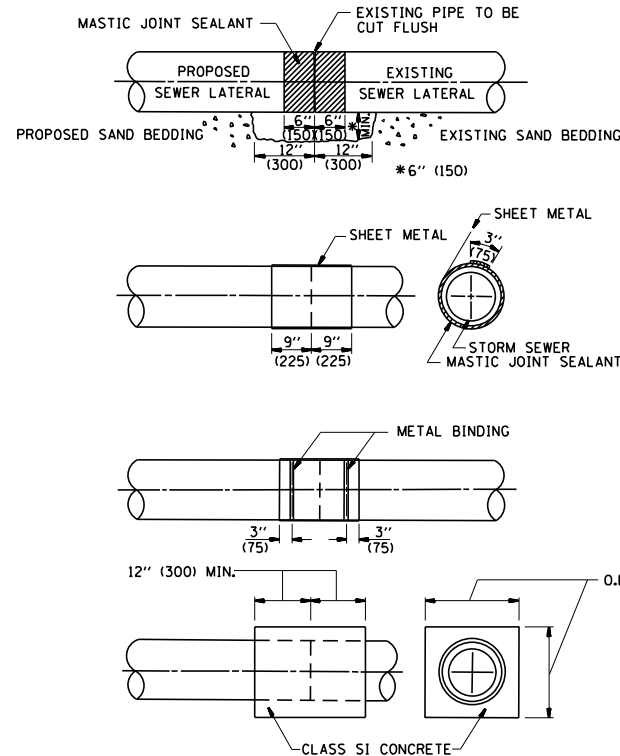
<b>OUTLET FOR CONCRETE CURB AND GUTTER</b>	
SCALBIONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	206
<b>BD600-01 (BD-03)</b>		CONTRACT NO. 62G11		
ILLINOIS		FED. AID PROJECT NHP-465(549)		



**DETAIL "A"**

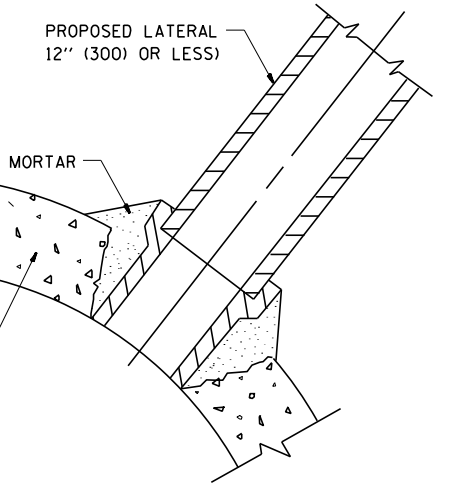
LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



**DETAIL "B"**

CLASS SI CONCRETE COLLAR

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



**DETAIL "C"**

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**CONSTRUCTION SEQUENCE**

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.

**NOTES**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER  
CONNECTION TO EXISTING SEWER

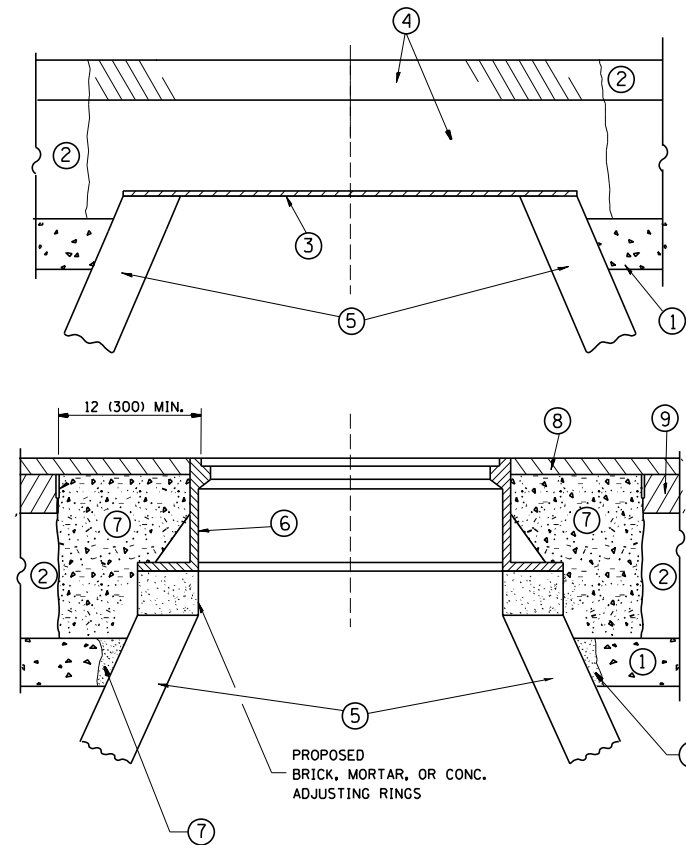
SCALBNONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	207
BD500-01 (BD-7)		CONTRACT NO. 62G11		
ILLINOIS		FED. AID PROJECT NHP-K465(649)		



USER NAME	+ Betsy	DESIGNED	- ESW	REVISED	- M. DE YONG 05-08-92
MODEL NAME	+ BD-07	DRAWN	- LEC	REVISED	- R. SHAH 09-09-94
PLOT SCALE	+ 40,0000' / in.	CHECKED	- BRM	REVISED	- R. SHAH 10-25-94
PLOT DATE	+ 4/29/2021	DATE	- 11/25/2020	REVISED	- R. SHAH 06-12-96

FILE NAME: S:\Projects\418-00091-0HY IL-72 & State Street\Design\CADD Sheets\0162011-shr-District\_details.dgn



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN



USER NAME + Betsy	DESIGNED - ESW	REVISED - R. WIEDEMAN 05-14-04
MODEL NAME + BD-08	DRAWN - LEC	REVISED - R. BORO 01-01-07
PLOT SCALE + 40,0000' / in.	CHECKED - BRM	REVISED - R. BORO 03-09-11
PLOT DATE + 4/29/2021	DATE - 11/25/2020	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

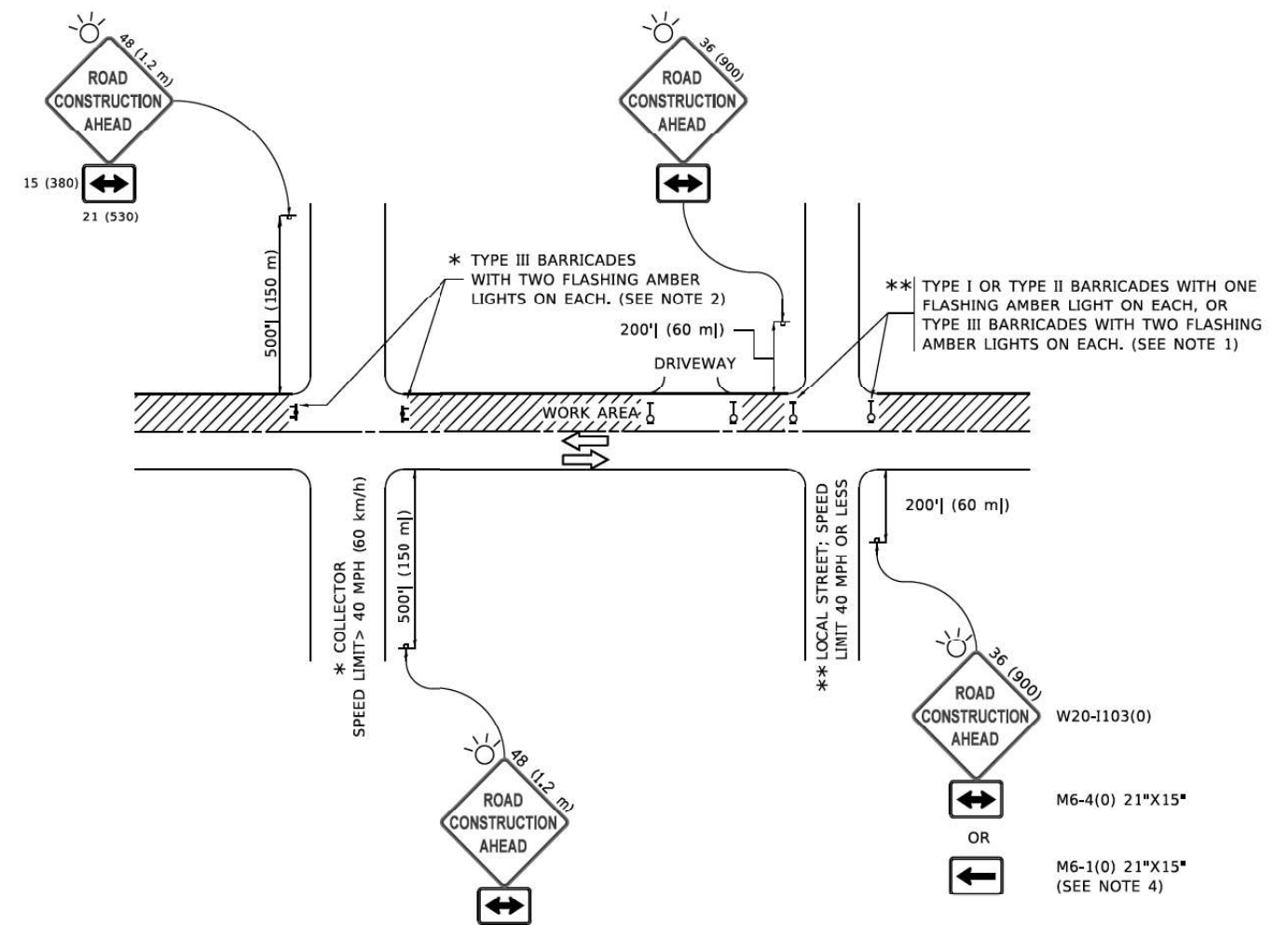
DETAILS FOR  
FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALBNONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 557	SECTION 32R-DR-1	COUNTY KANE	TOTAL SHEETS 236	SHEET NO. 208
BD600-03 (BD-8)		CONTRACT NO. 62G11		
ILLINOIS FED. AID PROJECT NHP-K465(549)				



FILE NAME: S:\Projects\418-0009-0HY IL-72 & State Street Design\CADD Sheets\0162011-shr-District\_details.dgn



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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



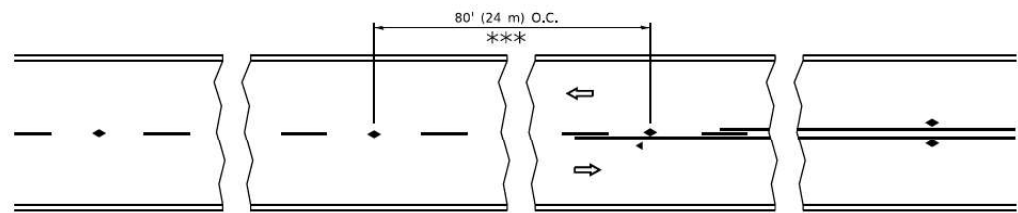
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MODEL NAME	+ TC-10	DRAWN	- LEC	REVISED	- T. RAMMACHER 10-06-00
PLOT SCALE	+ 40,00000' / in.	CHECKED	- BRM	REVISED	- A. SCHUETZE 07-01-13
PLOT DATE	+ 4/29/2021	DATE	- 11/25/2020	REVISED	- A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

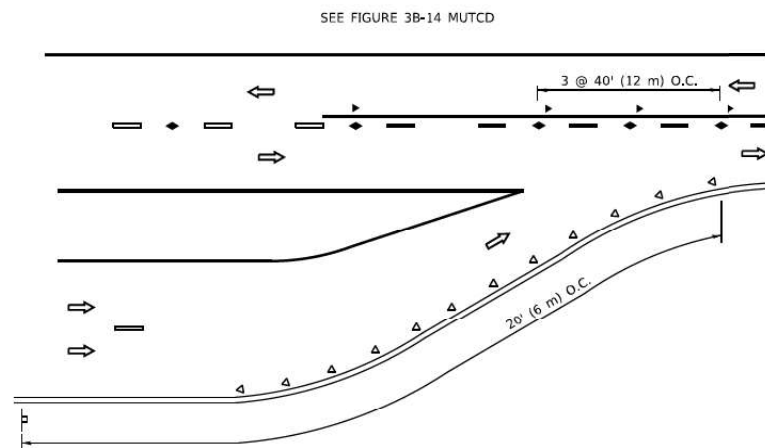
SCALBNONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62G11	
ILLINOIS FED. AID PROJECT NHP-465(549)				

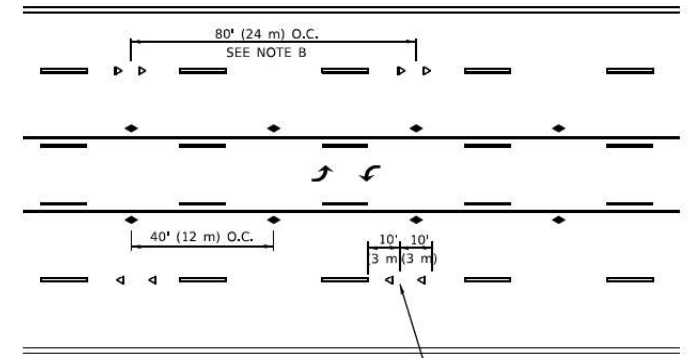


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

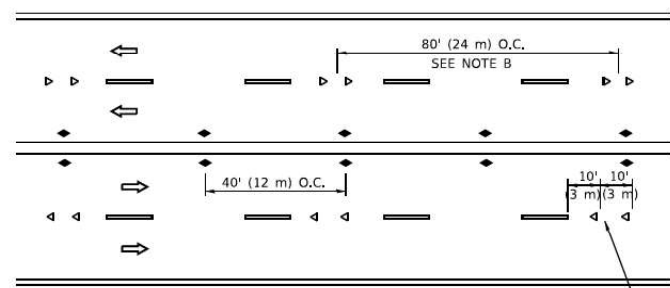
**TWO-LANE/TWO-WAY**



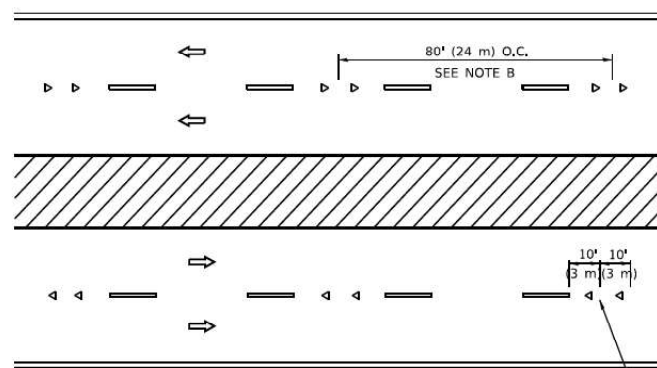
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES.

**SYMBOLS**

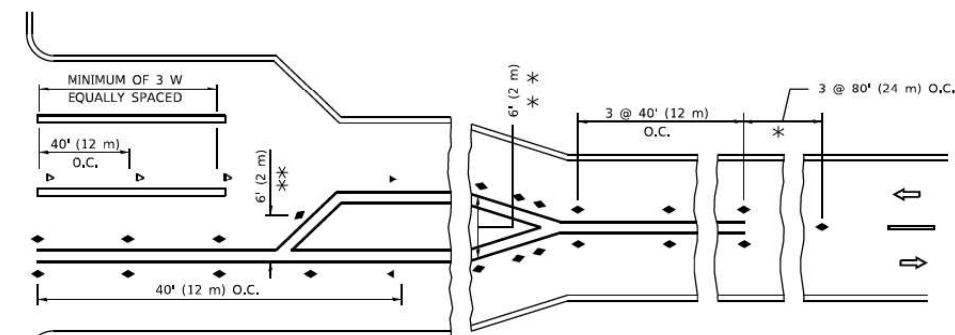
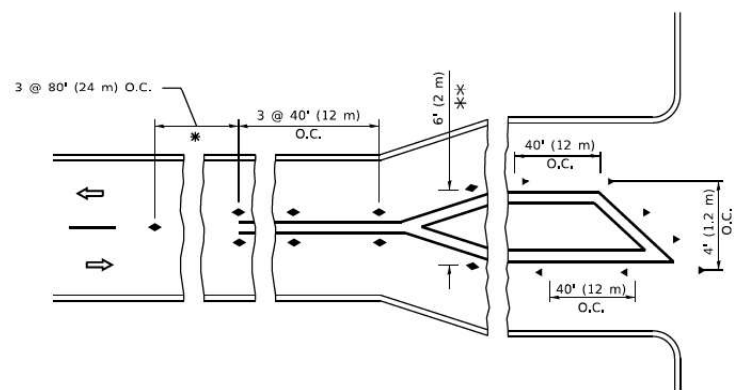
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

**DESIGN NOTES**

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

**TURN LANES**

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

FILE NAME: S:\Projects\418-2009-04Y IL-72 & State Streets Design\CADD Sheets\0162011-shr-District\_details.dgn



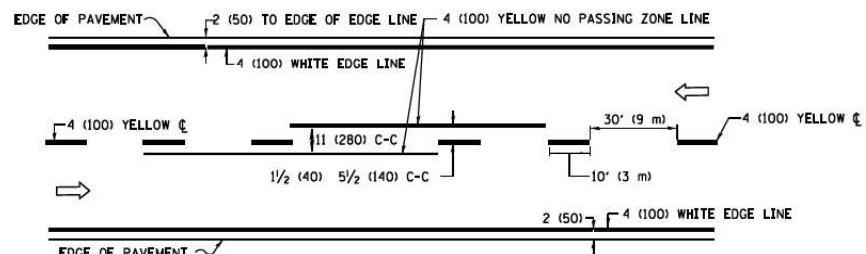
USER NAME	+ Betsy	DESIGNED	- ESW	REVISED	- T. RAMMACHER 03-12-99
MODEL NAME	+ TC-11	DRAWN	- LEC	REVISED	- T. RAMMACHER 01-06-00
PLOT SCALE	+ 40,0000' / in.	CHECKED	- BRM	REVISED	- C. JUCIUS 09-09-09
PLOT DATE	+ 4/29/2021	DATE	- 11/25/2020	REVISED	- C. JUCIUS 07-01-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

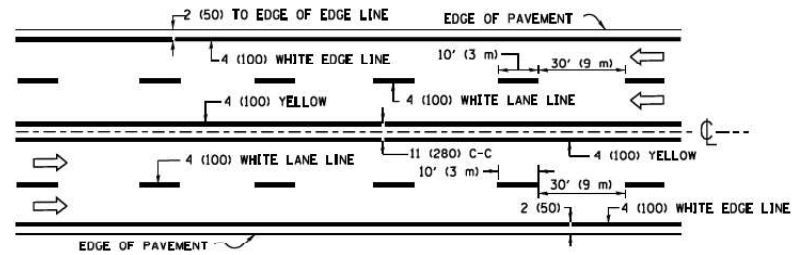
TYPICAL APPLICATIONS  
RAISED REFLECTIVE PAVEMENT MARKERS  
(SNOW-PLOW RESISTANT)

SCALBIONE SHEET 1 OF 1 SHEETS STA. TO STA.

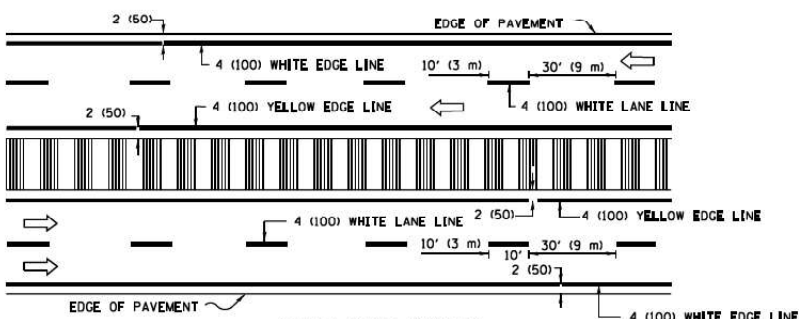
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	210
TC-11			CONTRACT NO. 62G11	
ILLINOIS			FED. AID PROJECT NHP-465(549)	



**2-LANE ROADWAY**

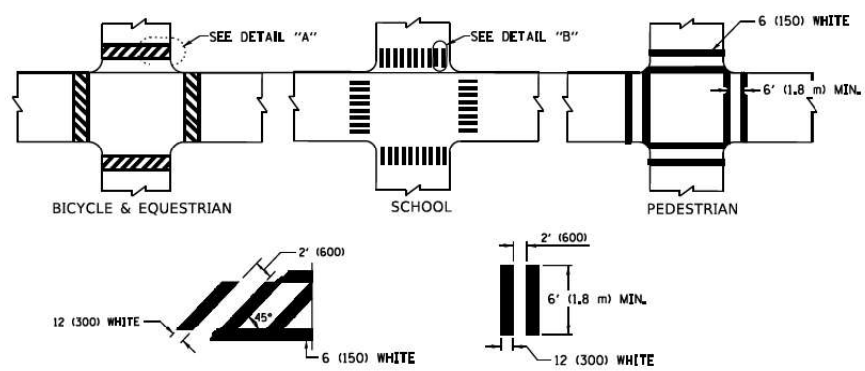


**MULTI-LANE UNDIVIDED**



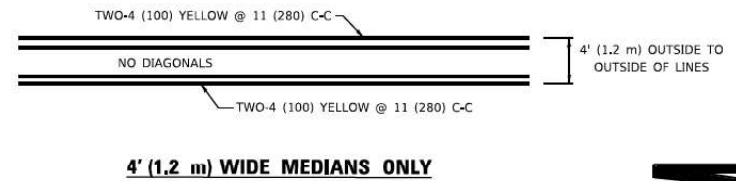
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

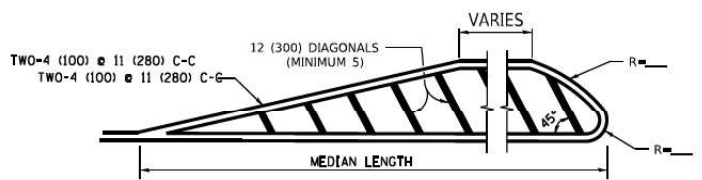


**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

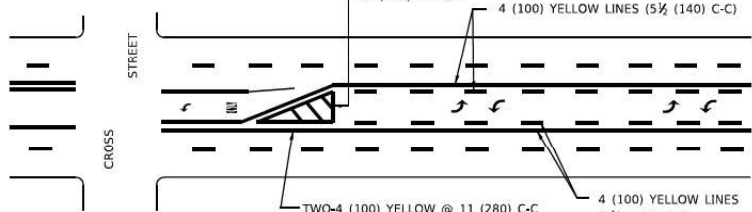


**4' (1.2 m) WIDE MEDIANS ONLY**



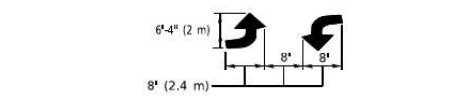
**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

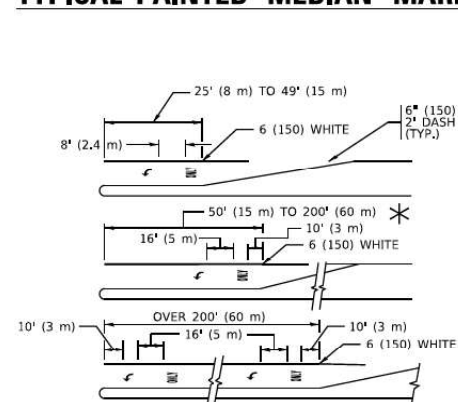


**MEDIAN WITH TWO-WAY LEFT TURN LANE  
TYPICAL PAINTED MEDIAN MARKING**

A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

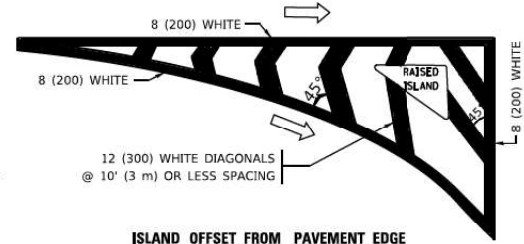


**TYPICAL LEFT (OR RIGHT) TURN LANE MARKING**

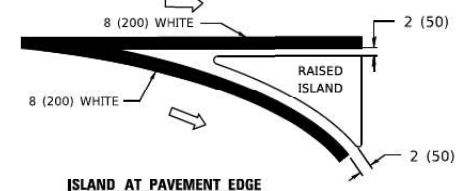


**TYPICAL TURN LANE MARKING**

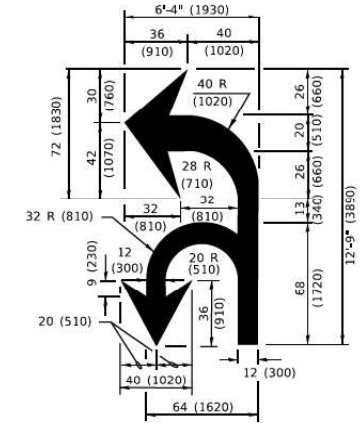
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - \*ONLY\* INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - \*ONLY\*.



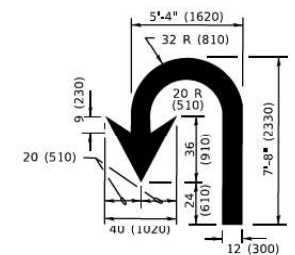
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE  
TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**  
\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES; FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: *R* IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR *X*	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH *X*=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME: S:\Projects\418-2009\0418-72 & State Street Design\CADD Sheets\0162011.sht-District\_details.dgn



USER NAME	+ Betsy	DESIGNED	- ESW	REVISED	- C. JUCIUS 09-09-09
MODEL NAME	+ TC-13	DRAWN	- LEC	REVISED	- C. JUCIUS 07-01-13
PLOT SCALE	+ 40,00000' / in.	CHECKED	- BRM	REVISED	- C. JUCIUS 12-21-15
PLOT DATE	+ 4/29/2021	DATE	- 11/25/2020	REVISED	- C. JUCIUS 04-12-16

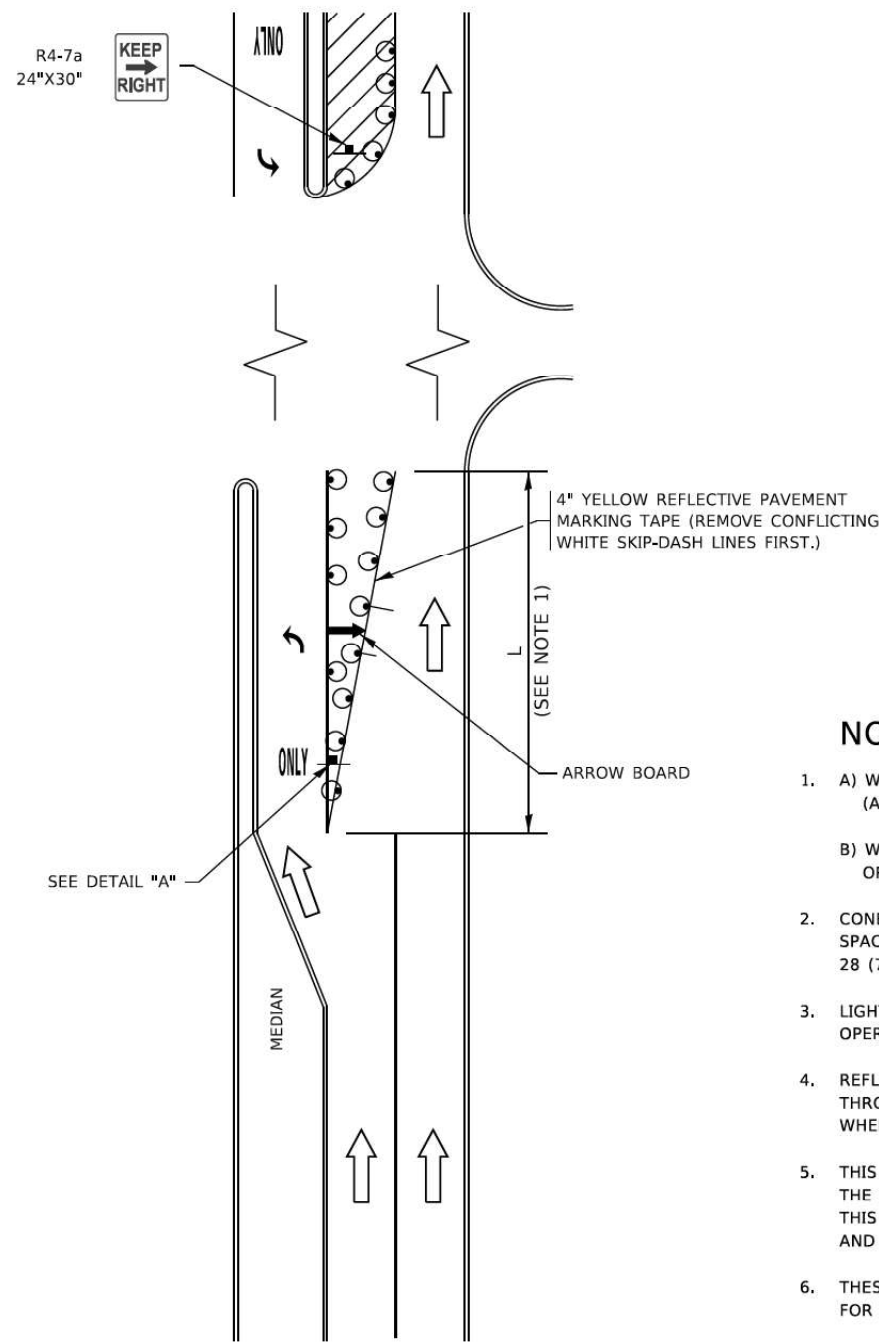
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL  
PAVEMENT MARKINGS

SCALBNONE	SHEET	1	OF	1	SHEETS	STA.	TO	STA.
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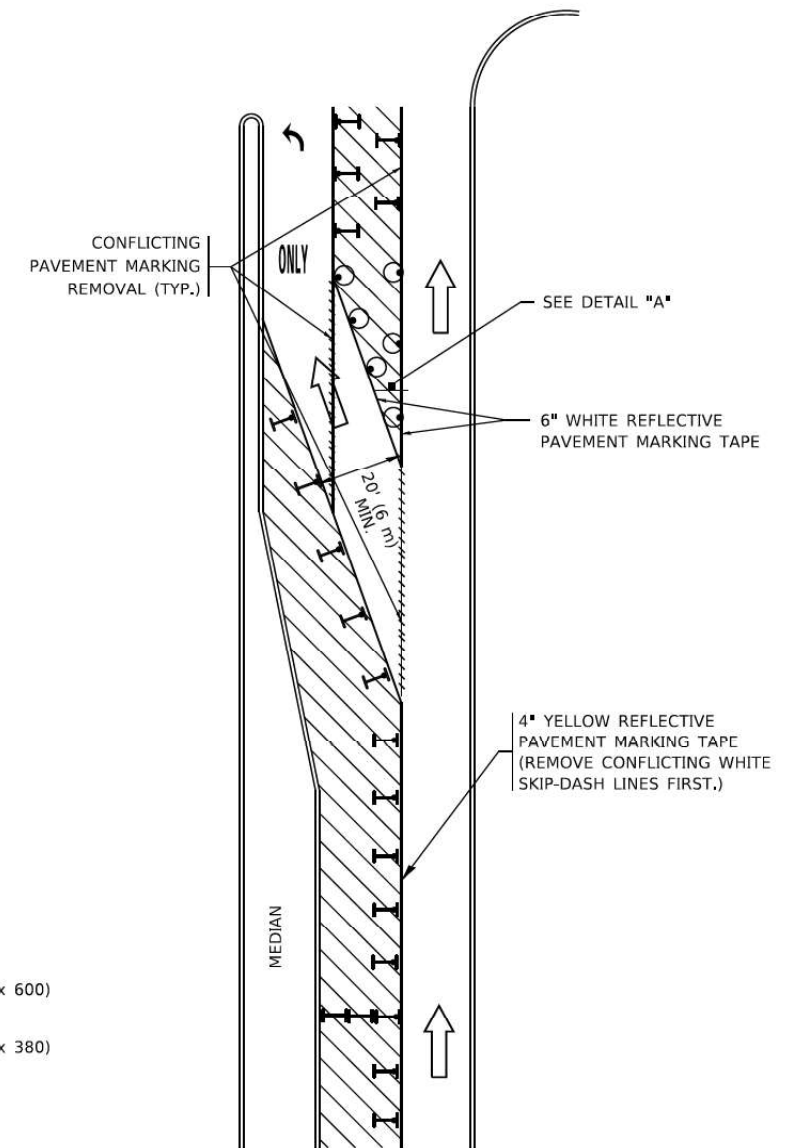
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	211
TC-13		CONTRACT NO. 62G11		
ILLINOIS		FED. AID PROJECT NHP-K465(649)		

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

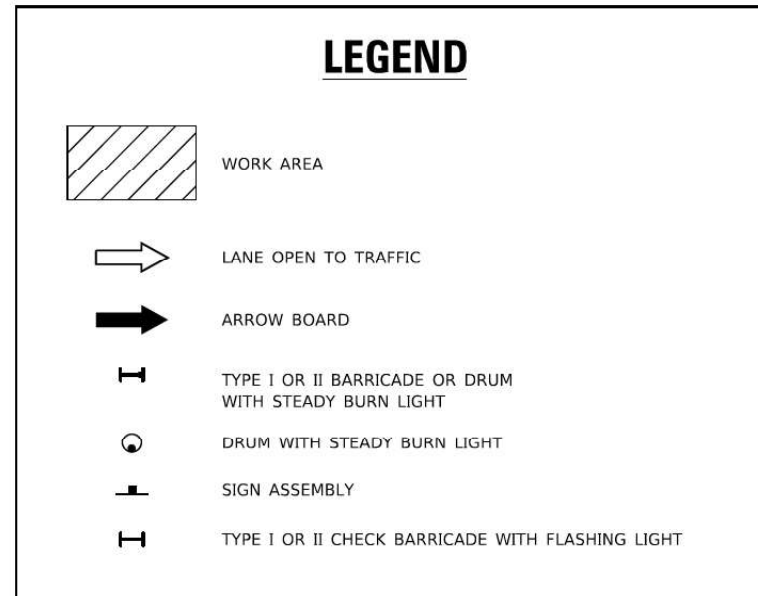


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

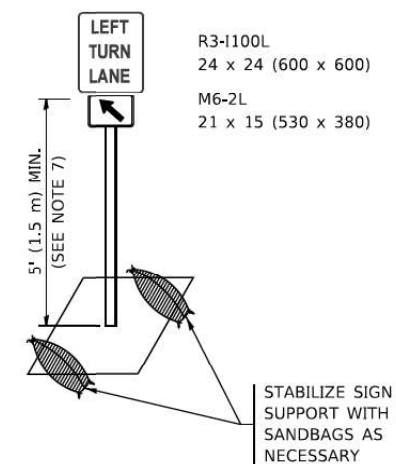


**FIGURE 2**



### NOTES:

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

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

FILE NAME: S:\Projects\418-0009-0HY IL-72 & State Street Design\CADD Sheets\0162G11-shr-District\_details.dgn



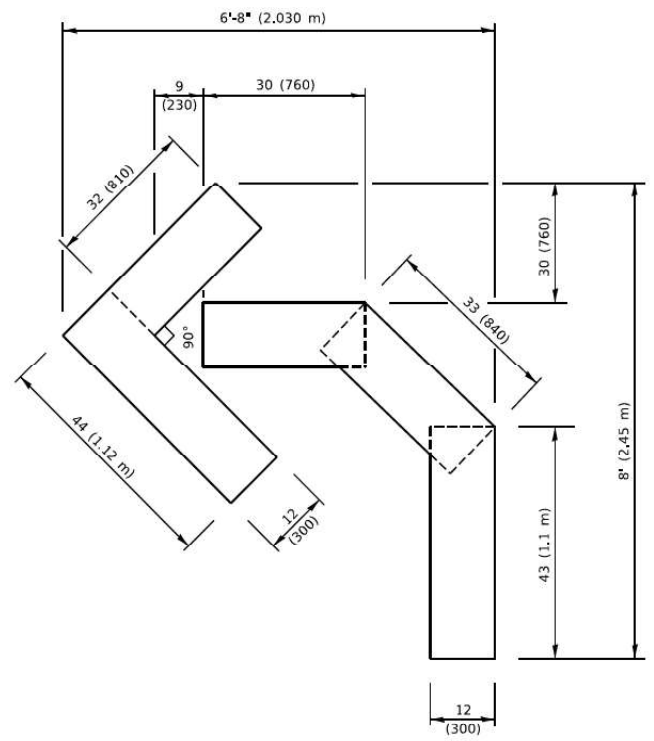
USER NAME	+ Betsy	DESIGNED	- ESW	REVISED	- R. BORO 09-14-09
MODEL NAME	+ TC-14	DRAWN	- LEC	REVISED	- A. SCHUETZE 07-01-13
PLOT SCALE	+ 40,0000' / in.	CHECKED	- BRM	REVISED	- A. SCHUETZE 09-15-16
PLOT DATE	+ 4/29/2021	DATE	- 11/25/2020	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

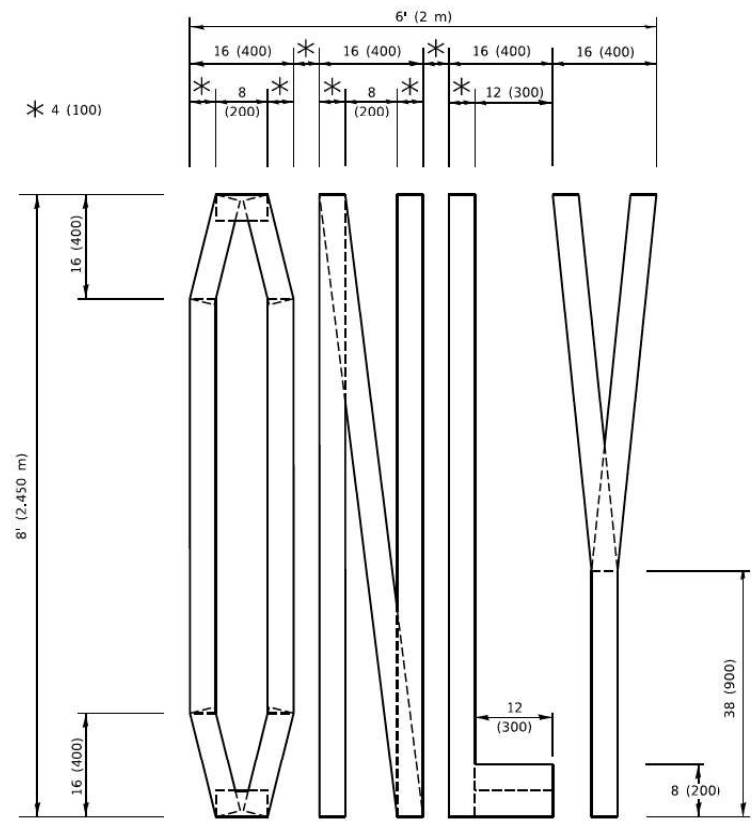
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)

SCALBIONE SHEET 1 OF 1 SHEETS STA. TO STA.

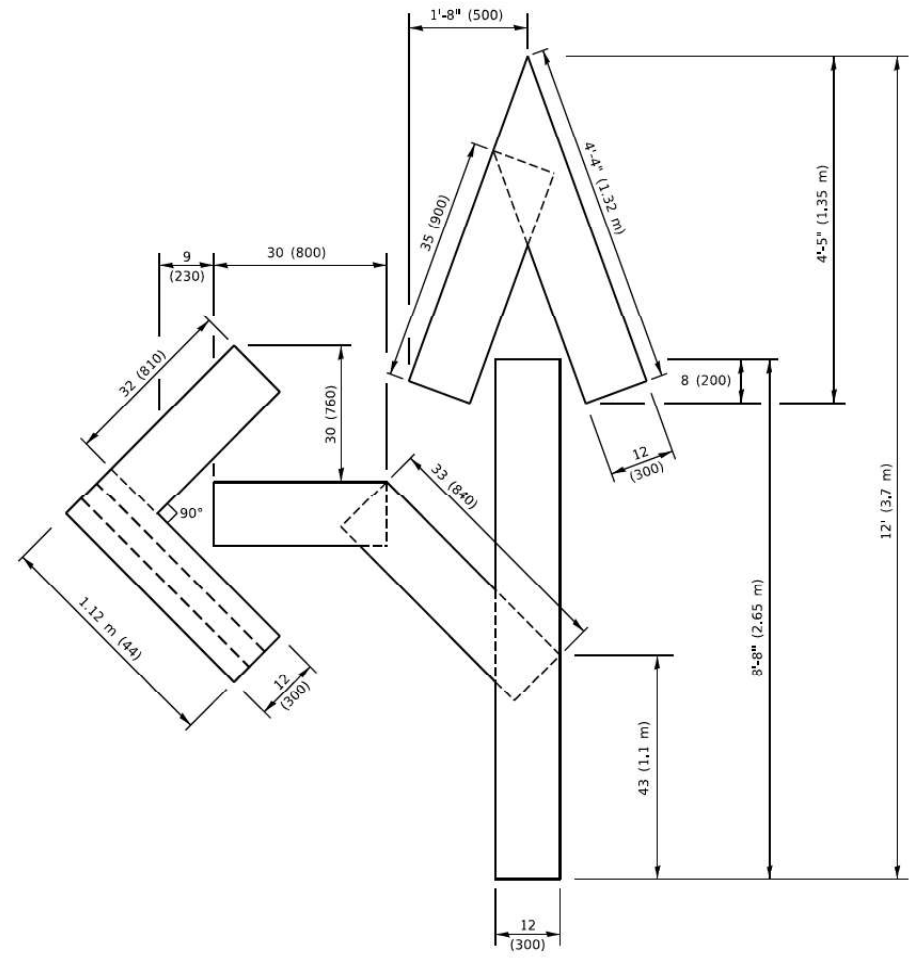
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	212
TC-14			CONTRACT NO. 62G11	
ILLINOIS FED. AID PROJECT NHP-4465(649)				



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

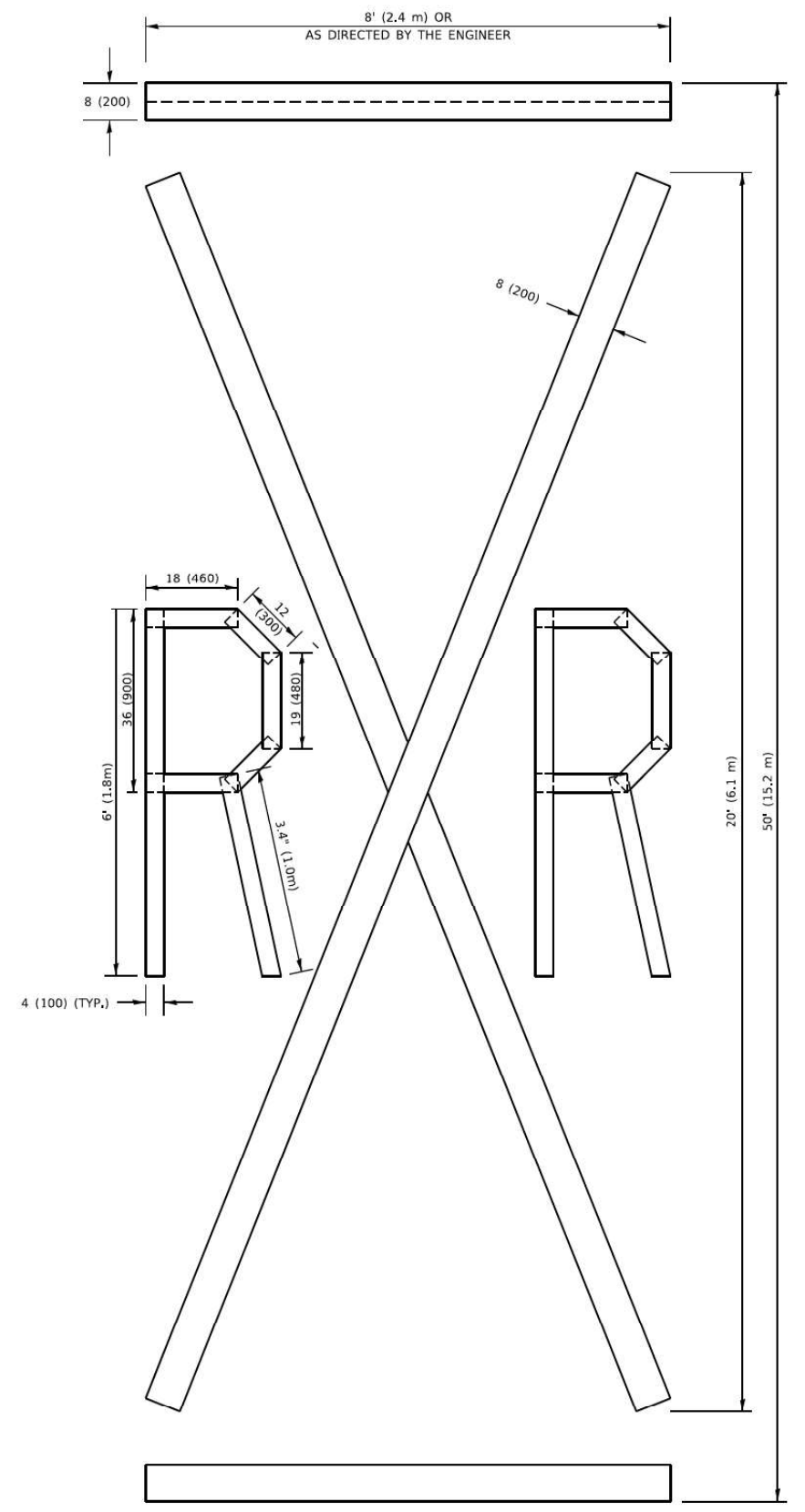


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

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

FILE NAME: S:\Projects\418-00091-0HY IL-72 & State Street Design\CADD Sheets\0162011-shr-District\_details.dgn



USER NAME	+ Betsy	DESIGNED	- ESW	REVISED	- T. RAMMACHER 03-02-98
MODEL NAME	+ TC-16	DRAWN	- LEC	REVISED	- E. GOMEZ 08-28-00
PLOT SCALE	+ 40,0000' / in.	CHECKED	- BRM	REVISED	- E. GOMEZ 08-28-00
PLOT DATE	+ 4/29/2021	DATE	- 11/25/2020	REVISED	- A. SCHUETZE 09-15-16

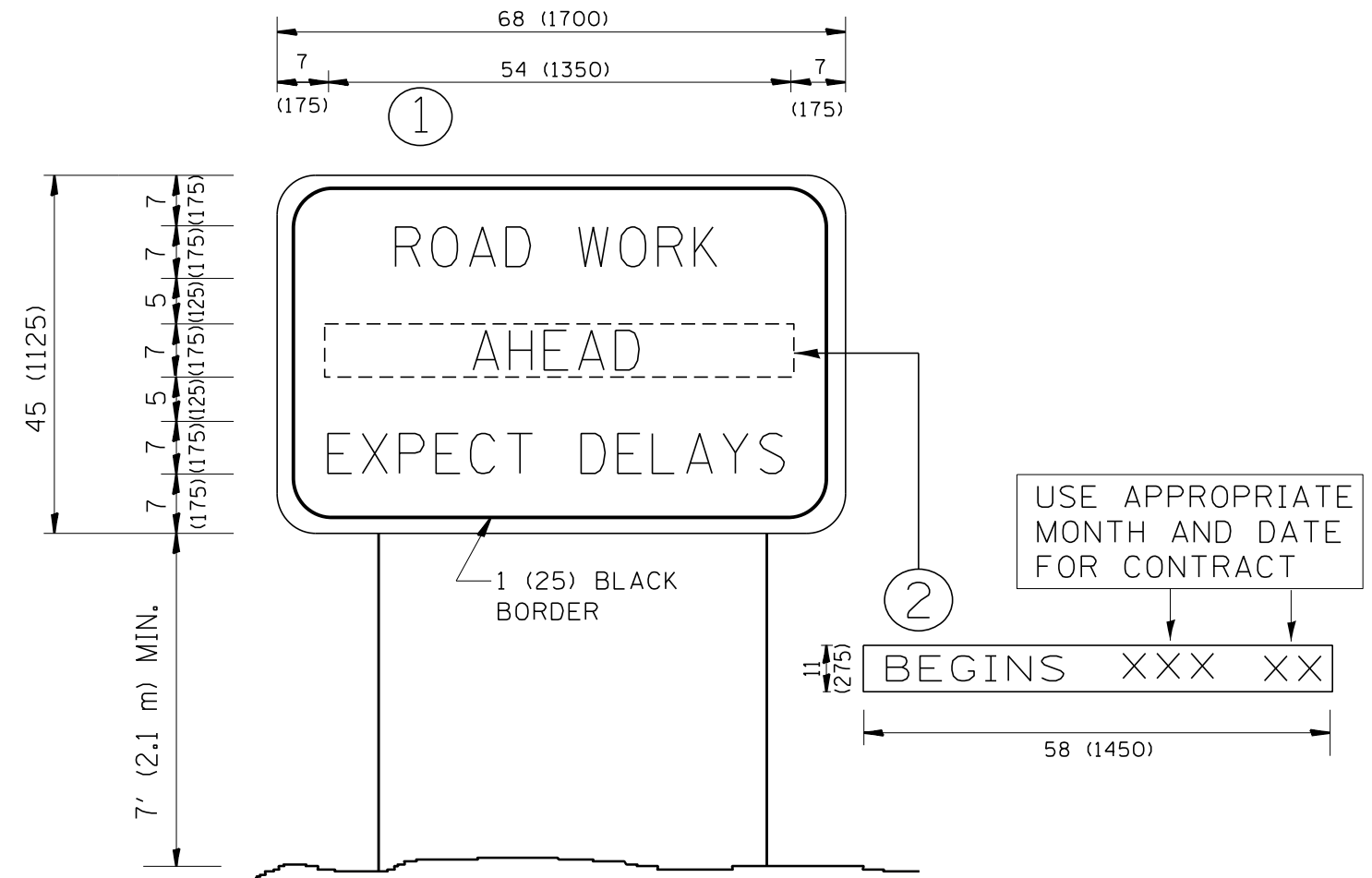
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

SCALBIONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	213
<b>TC-16</b>		CONTRACT NO. 62G11		
ILLINOIS		FED. AID PROJECT NHP-K465(549)		

FILE NAME: S:\Projects\418-0009-0HY IL-72 & State Street Design\CADD Sheets\0162011-shr-District\_details.dgn



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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



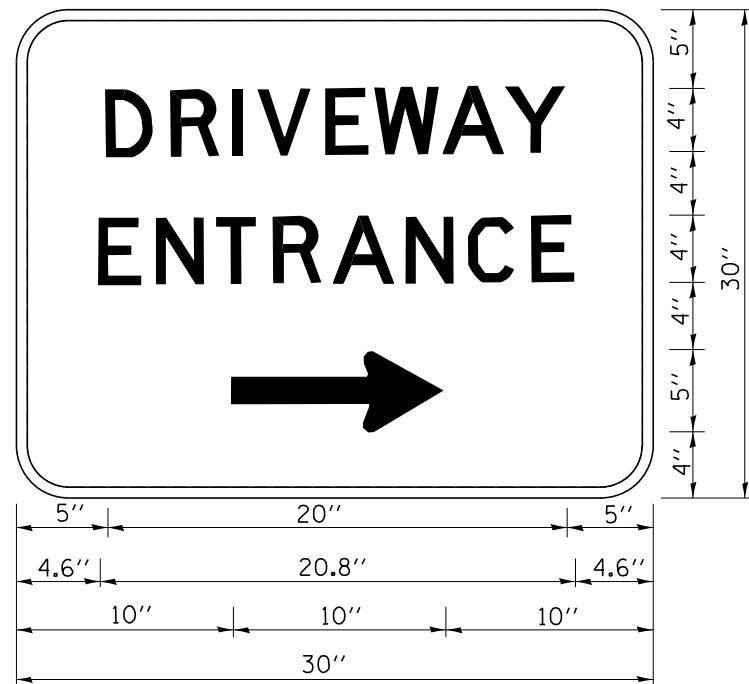
USER NAME	+ Betsy	DESIGNED	- ESW	REVISED	- R. MIRS 09-15-97
MODEL NAME	+ TC-22	DRAWN	- LEC	REVISED	- R. MIRS 12-11-97
PLOT SCALE	+ 40,00000' / in.	CHECKED	- BRM	REVISED	- T. RAMMACHER 02-02-99
PLOT DATE	+ 4/29/2021	DATE	- 11/25/2020	REVISED	- C. JUCIUS 01-31-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALIBNONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	214
TC-22			CONTRACT NO. 62G11	
ILLINOIS FED. AID PROJECT NHPP-K465(549)				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME: S:\Projects\418-0009-0HY IL-72 & State Street Design\CADD Sheets\0162011-shr-District\_details.dgn



USER NAME	+ Betsy	DESIGNED	- ESW	REVISED	- C. JUCIUS 09-09-09
MODEL NAME	+ TC-26	DRAWN	- LEC	REVISED	- C. JUCIUS 07-01-13
PLOT SCALE	+ 40,0000' / in.	CHECKED	- BRM	REVISED	- C. JUCIUS 12-21-15
PLOT DATE	+ 4/29/2021	DATE	- 11/25/2020	REVISED	- C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

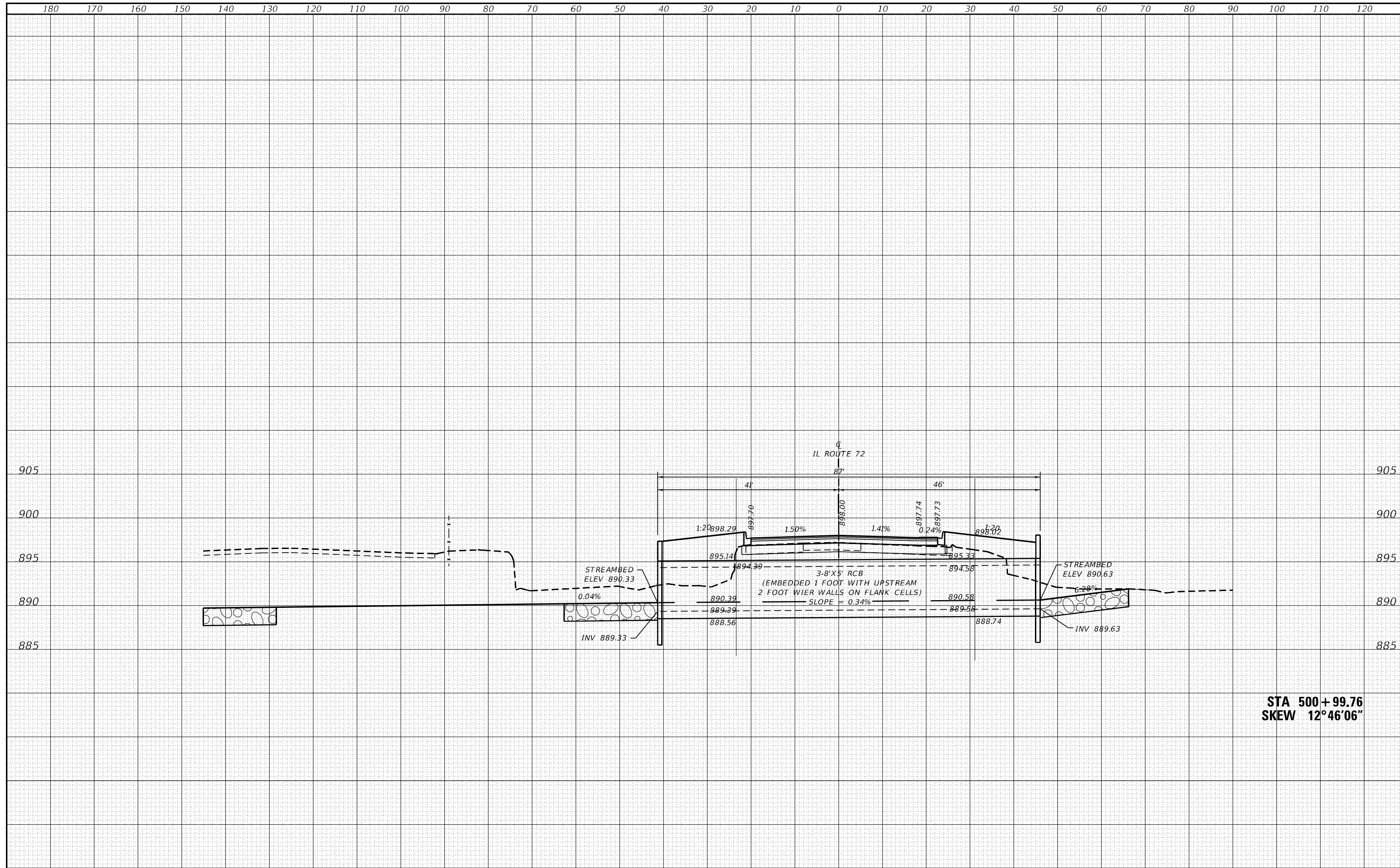
**DRIVEWAY ENTRANCE SIGNING**

SCALBIONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	215
TC-26			CONTRACT NO. 62G11	
ILLINOIS		FED. AID PROJECT NHPP-K465(549)		

DATE	
BY	
APPROVED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
APPROVED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



**STA 500+99.76  
SKEW 12°46'06"**



USER NAME = Betsy	DESIGNED -	REVISED -
PLOT SCALE = 20,000' / 1"	DRAWN -	REVISED -
PLOT DATE = 4/29/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

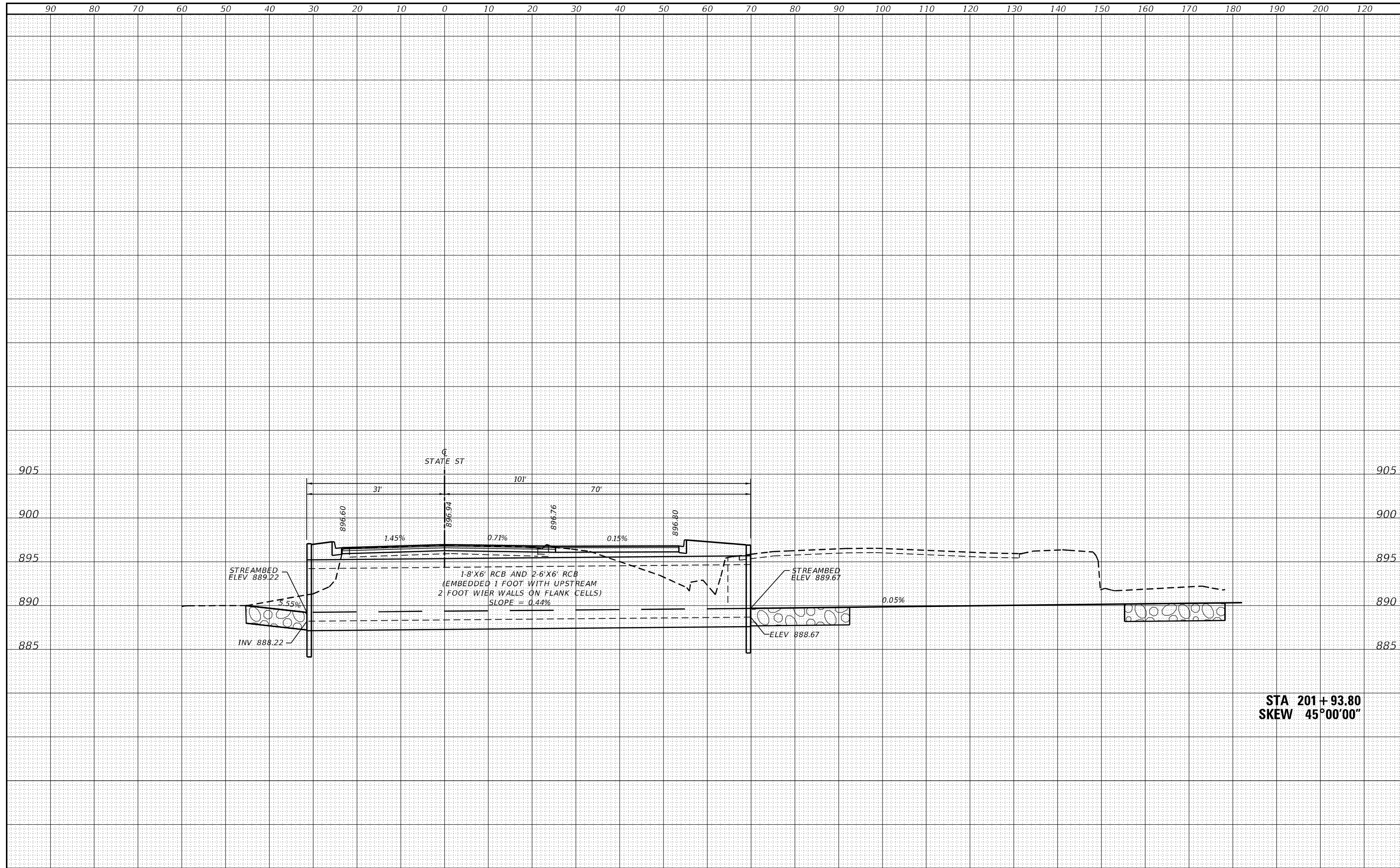
<b>CULVERT DETAILS IL ROUTE 72</b>	
SCALE:	SHEET 1 OF 2 SHEETS
	STA. 11+00.00 TO STA. 11+75.00

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	216
CONTRACT NO.				
ILLINOIS FED. AID PROJECT NHPP-465(549)				



DATE	
BY	
APPROVED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
APPROVED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



**STA 201+93.80  
SKEW 45°00'00"**



USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
 PLOT DATE = 4/29/2021

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

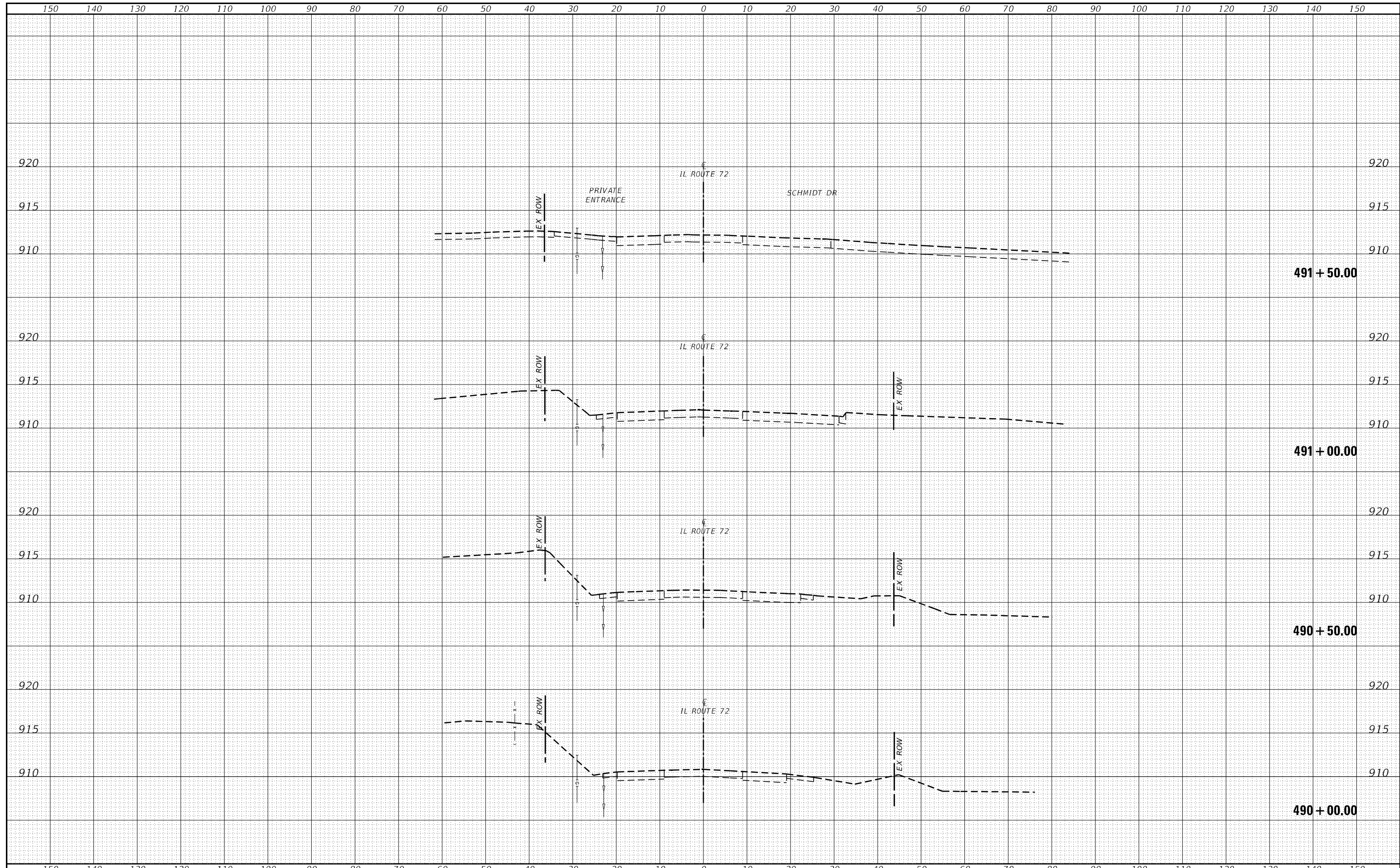
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS  
STATE STREET**  
 SCALE: SHEET 2 OF 2 SHEETS STA. 12+00.00 TO STA. 12+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	217
CONTRACT NO.				
ILLINOIS FED. AID PROJECT NHPP-465(549)				

DATE	
BY	
APPROVED	
PLOTTED	
TEMPERATURE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
APPROVED	
PLOTTED	
TEMPERATURE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



USER NAME = Betsy	DESIGNED -	REVISED -
PLOT SCALE = 20,000' / 1"	DRAWN -	REVISED -
PLOT DATE = 4/29/2021	CHECKED -	REVISED -
	DATE -	REVISED -

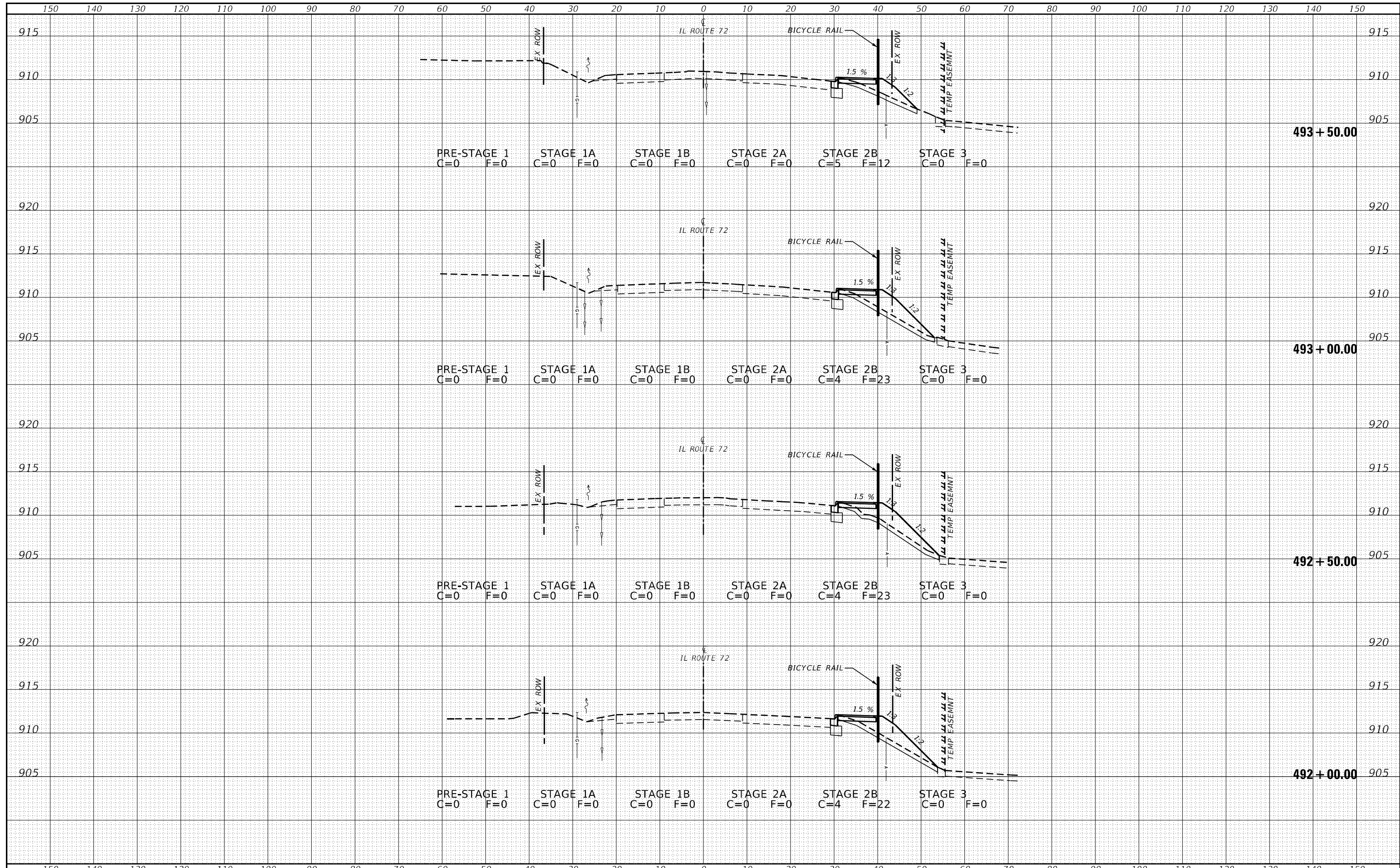
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS IL ROUTE 72</b>	
SCALE:	SHEET 1 OF 11 SHEETS STA. 490+00.00 TO STA. 491+50.00

F.A.L. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	218
CONTRACT NO. 62G11			ILLINOIS FED. AID PROJECT NHP2-465(549)	

DATE	
BY	
APPROVED	
PLOTTED	
TEMP. AT	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
APPROVED	
PLOTTED	
TEMP. AT	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
 PLOT DATE = 4/29/2021

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

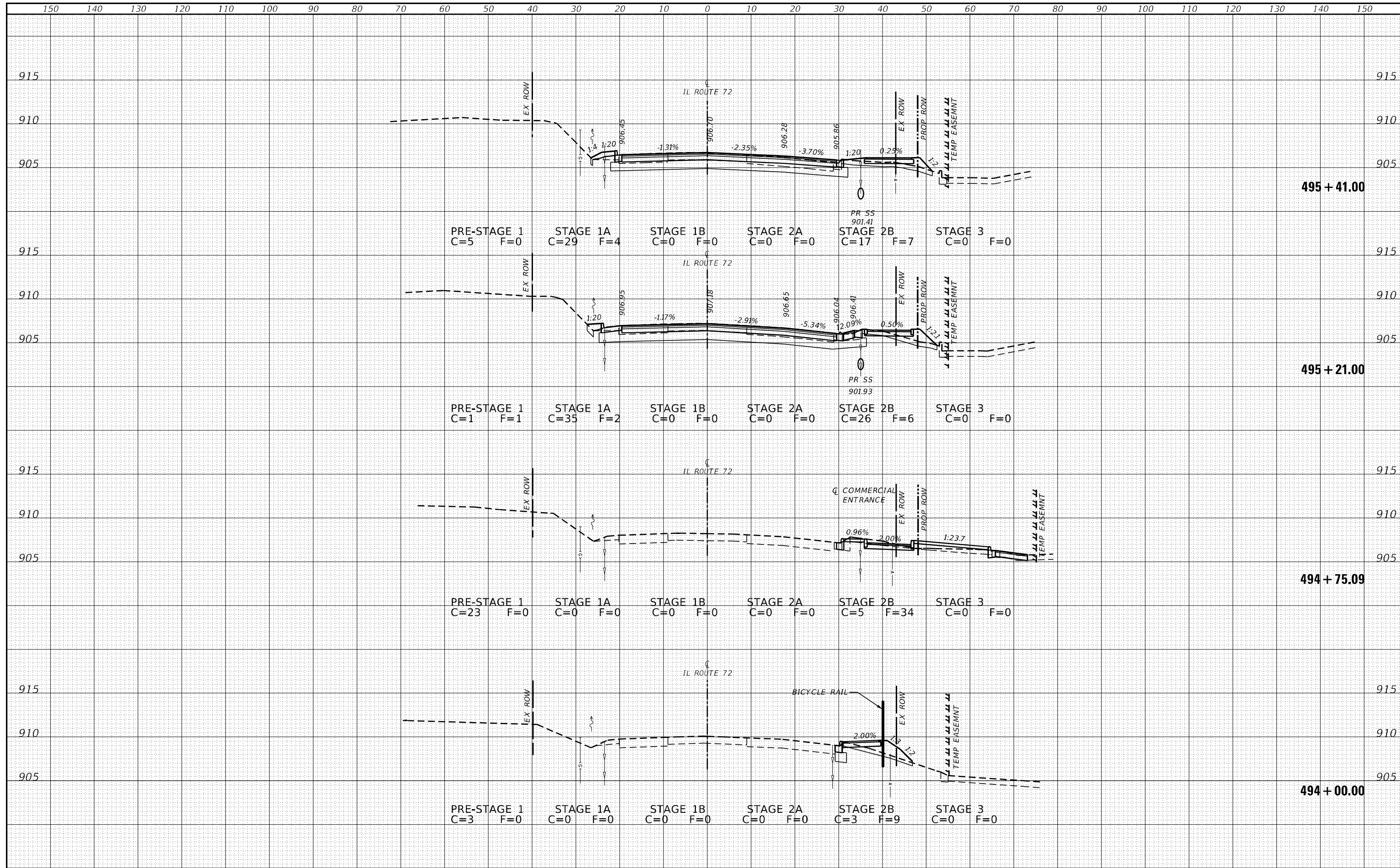
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 IL ROUTE 72  
 SCALE: SHEET 2 OF 11 SHEETS STA. 492+00.00 TO STA. 493+50.00

F.A.L. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	219
CONTRACT NO. 62G11				
ILLINOIS FED. AID PROJECT NHP2-465(549)				

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USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
 PLOT DATE = 4/29/2021

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STATE OF ILLINOIS  
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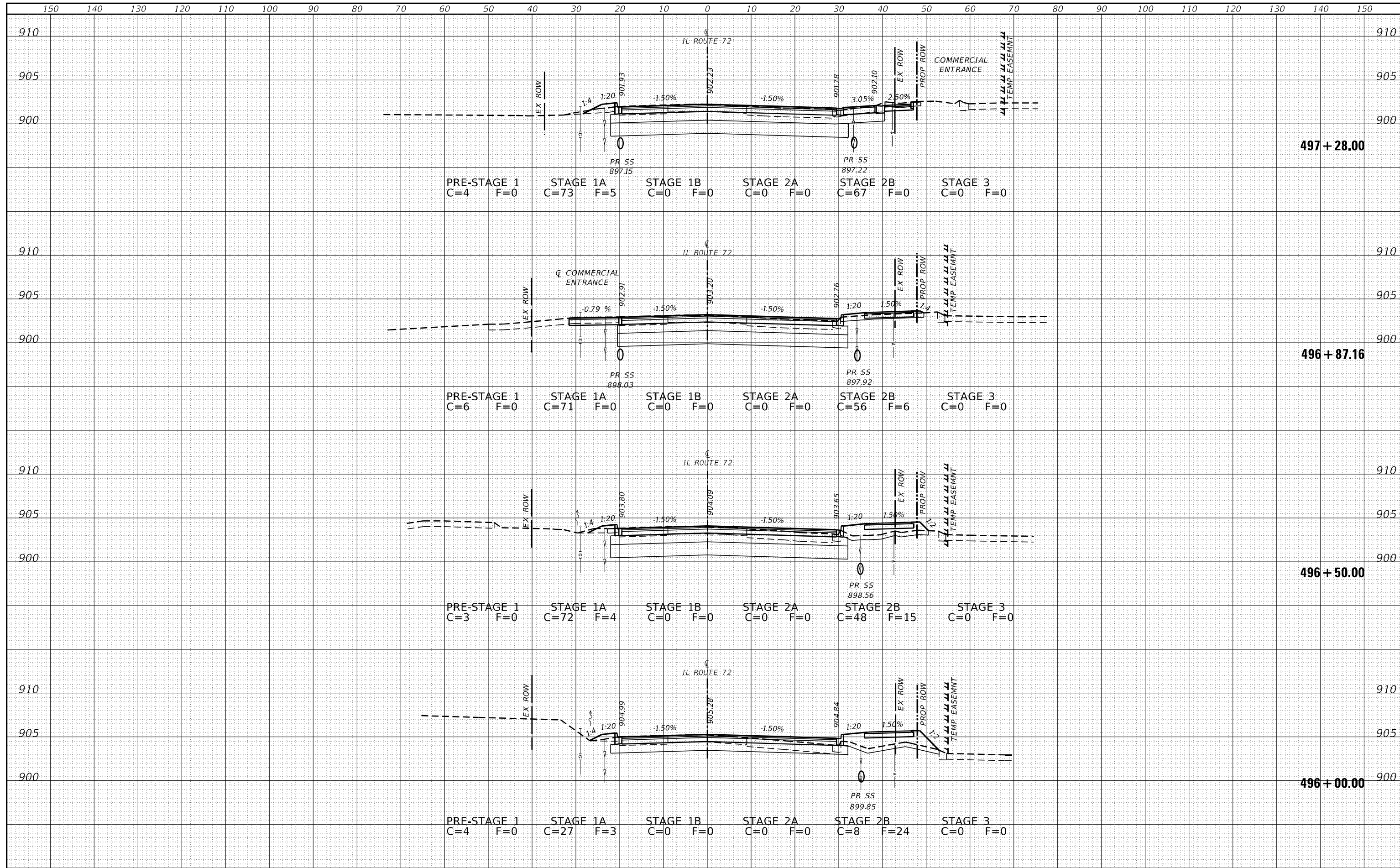
CROSS SECTIONS  
 IL ROUTE 72

SCALE: SHEET 3 OF 11 SHEETS STA. 494+00.00 TO STA. 495+41.00

F.A.L. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	220
CONTRACT NO. 62G11				
ILLINOIS FED. AID PROJECT NHP2-465(549)				

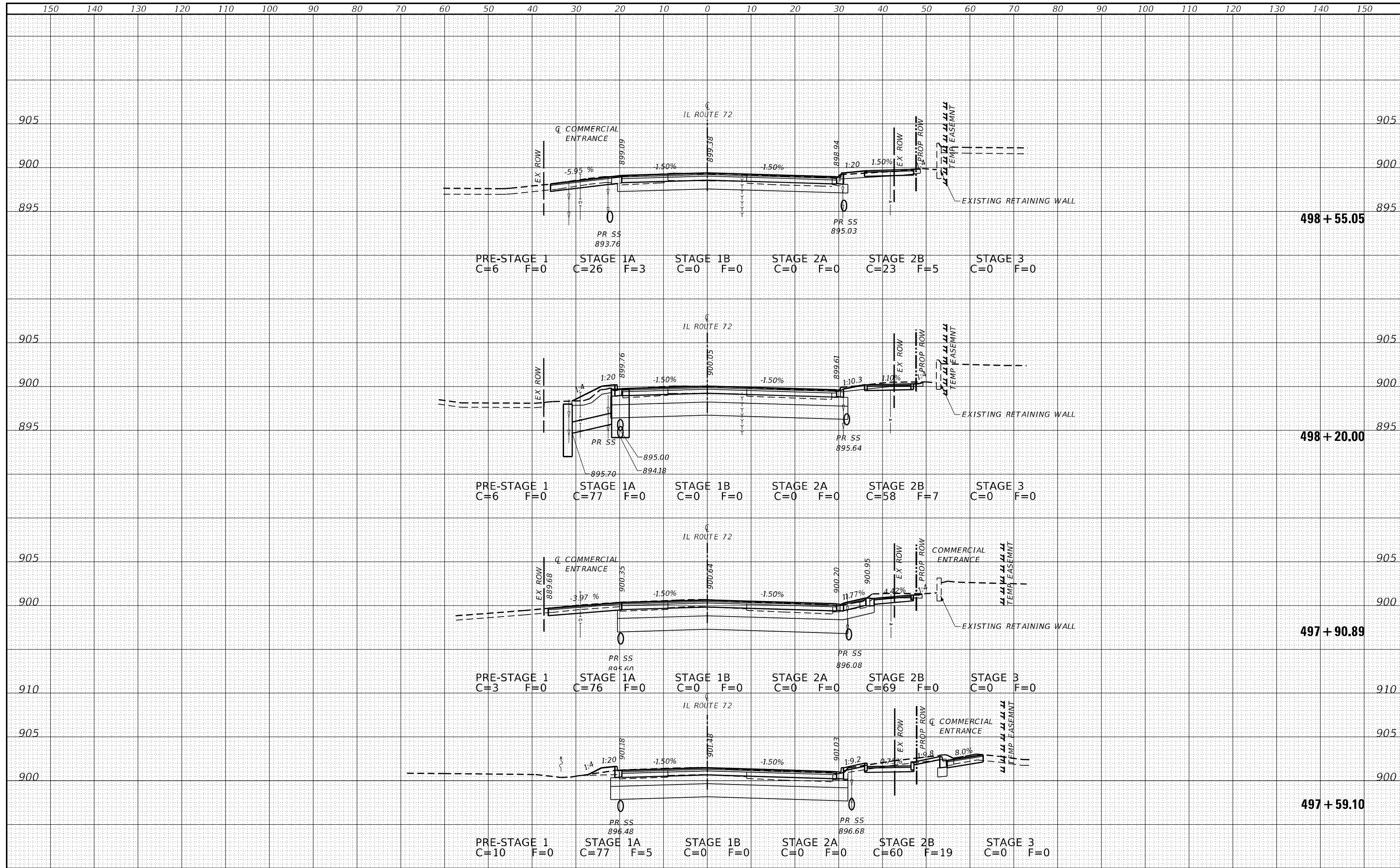
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USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
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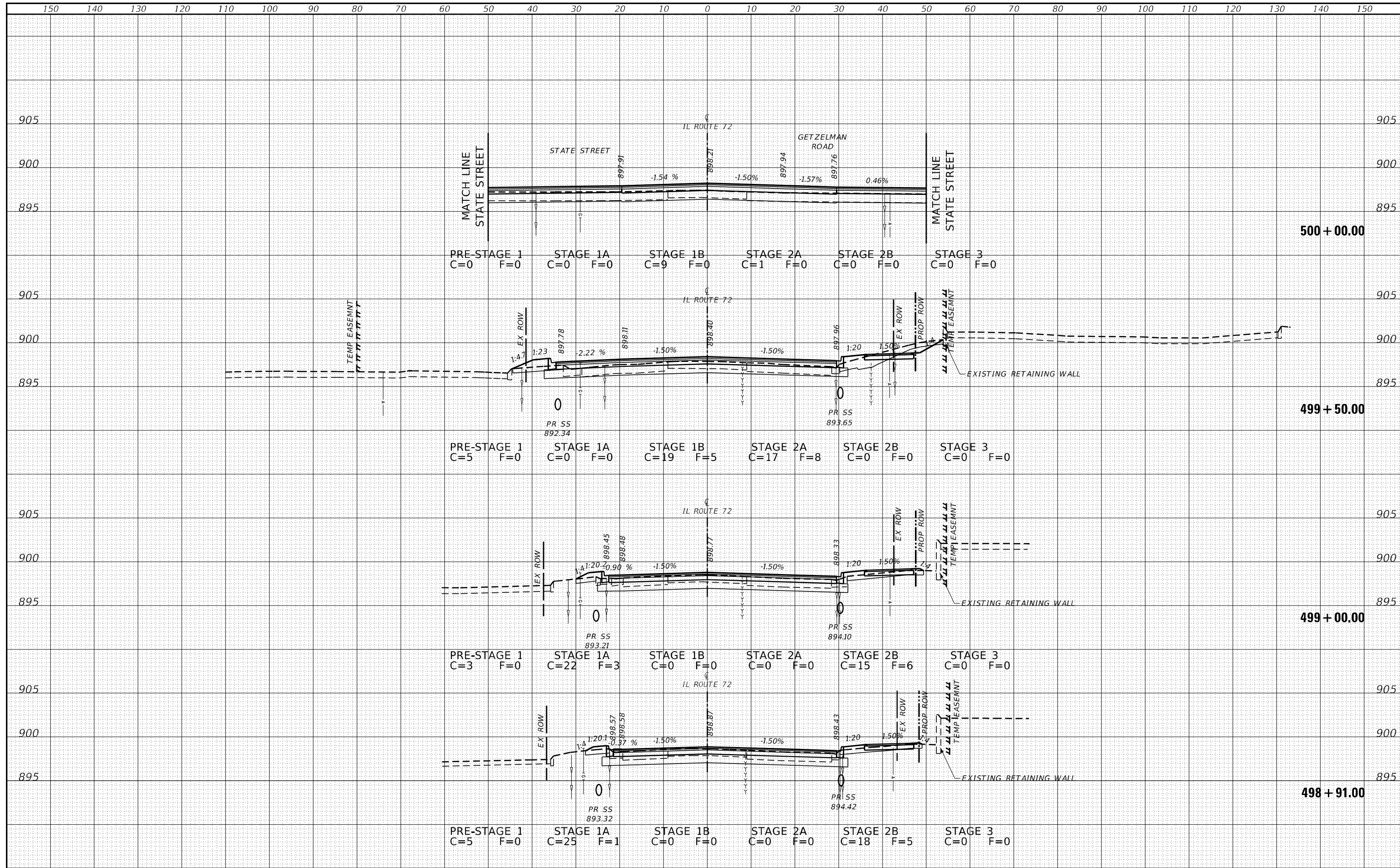
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 IL ROUTE 72**  
 SCALE: SHEET 5 OF 11 SHEETS STA. 497+59.10 TO STA. 498+55.05

F.A.L. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	222
CONTRACT NO. 62G11				
ILLINOIS FED. AID PROJECT NHP2-465(549)				

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USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
 PLOT DATE = 4/29/2021

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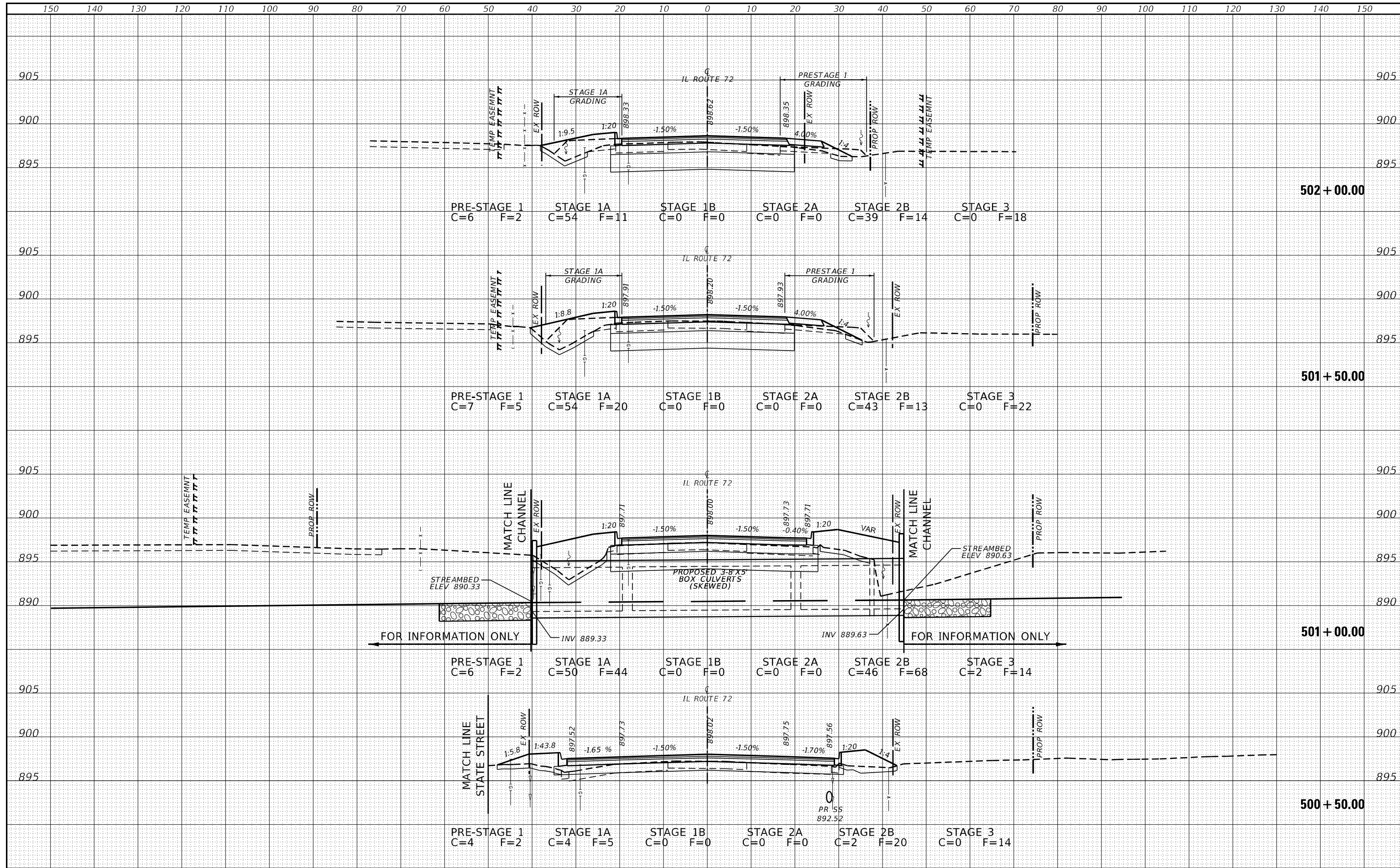
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 IL ROUTE 72  
 SCALE: SHEET 6 OF 11 SHEETS STA. 498+91.07 TO STA. 500+00.00

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	223
CONTRACT NO. 62G11				
ILLINOIS FED. AID PROJECT NHP2-465(549)				

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USER NAME = Betsy  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

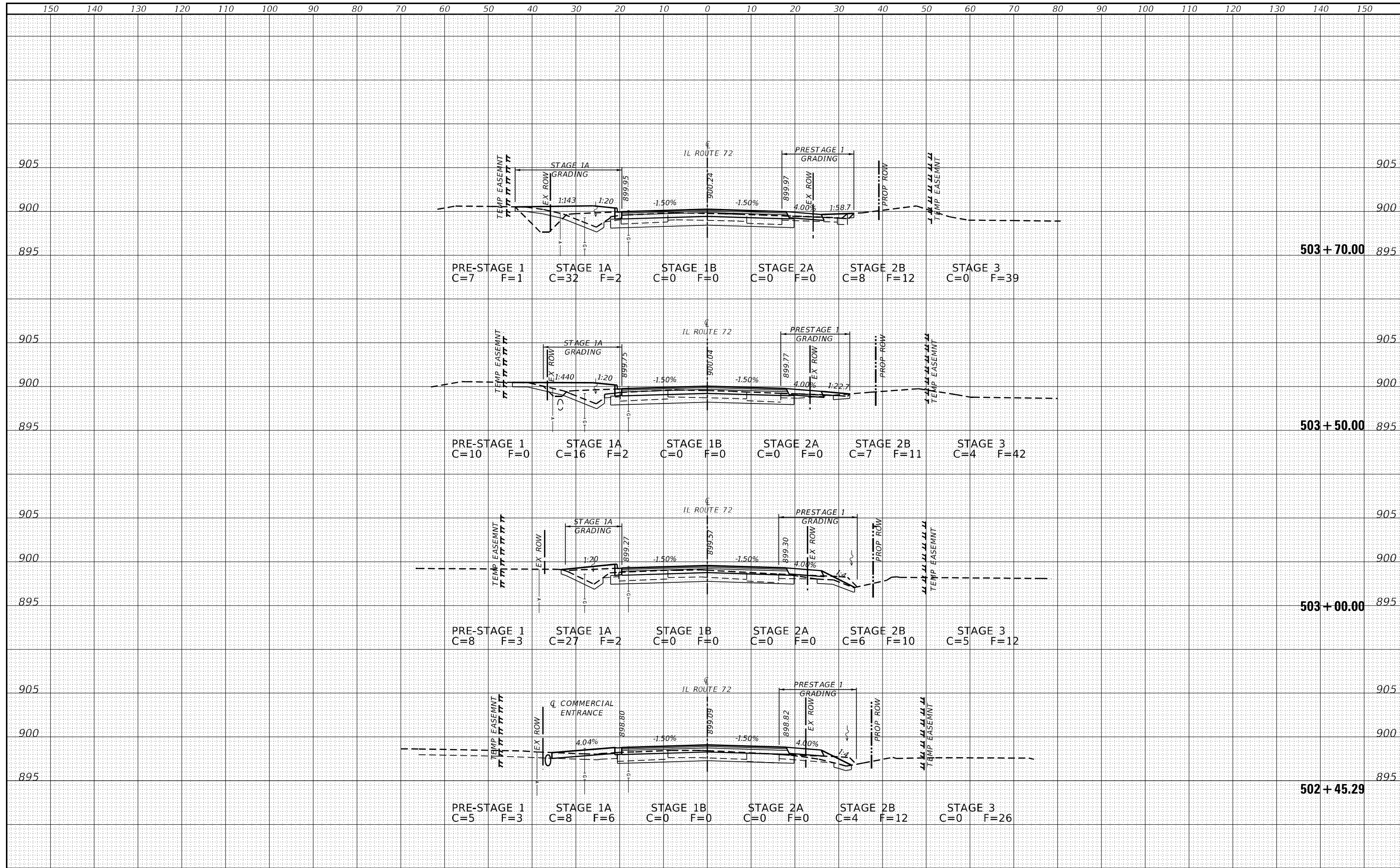
CROSS SECTIONS  
 IL ROUTE 72  
 SCALE: SHEET 7 OF 11 SHEETS STA. 500+50.00 TO STA. 502+00.00

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	224
CONTRACT NO. 62G11				
ILLINOIS FED. AID PROJECT NHP2-465(549)				



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

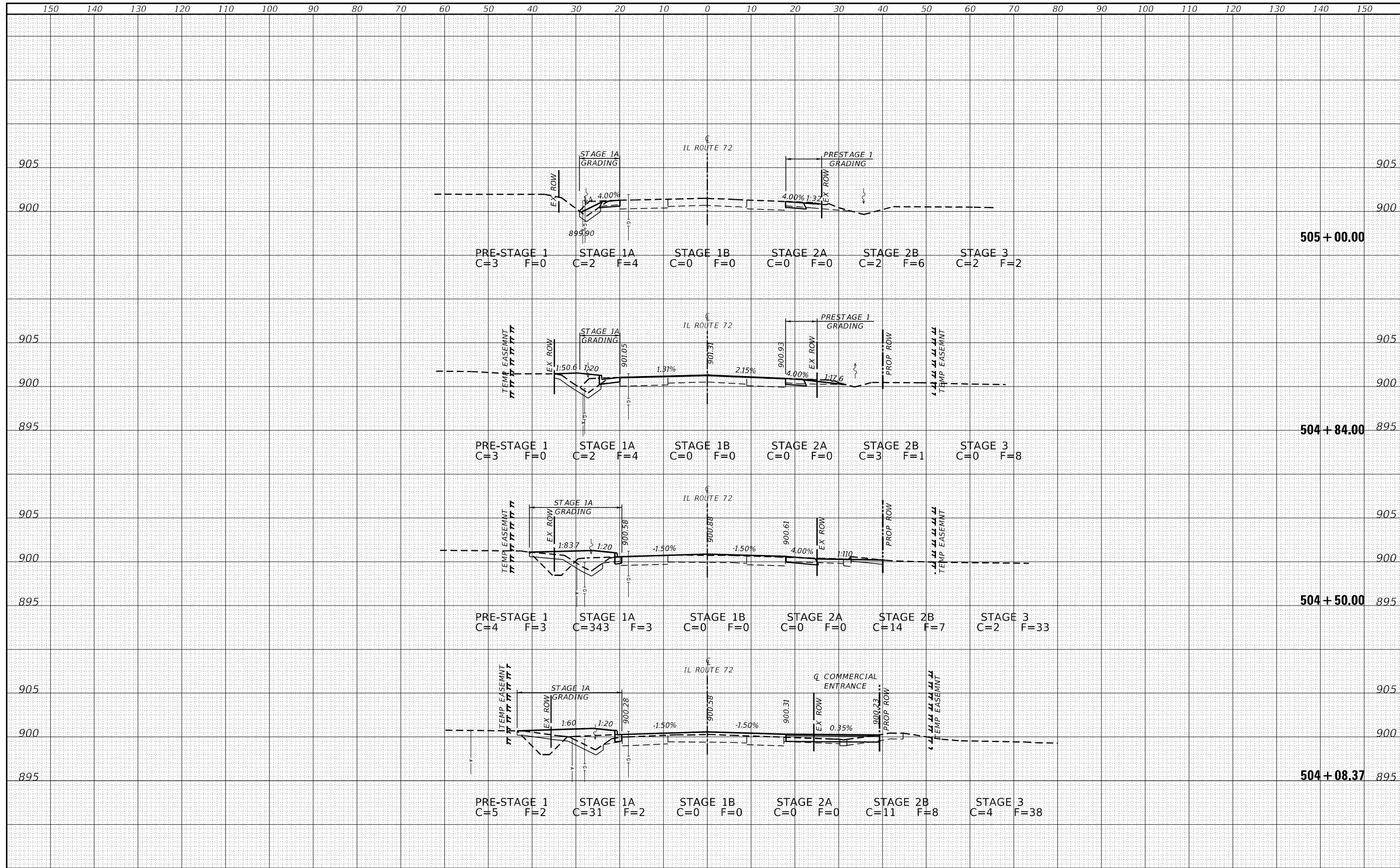
**CROSS SECTIONS  
IL ROUTE 72**

SCALE: SHEET 8 OF 11 SHEETS STA. 502+50.00 TO STA. 503+71.13

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	226
			CONTRACT NO. 62G11	
		ILLINOIS FED. AID PROJECT NHP2-465(549)		

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USER NAME = Betsy  
 PLOT SCALE = 20.0000' / ft.  
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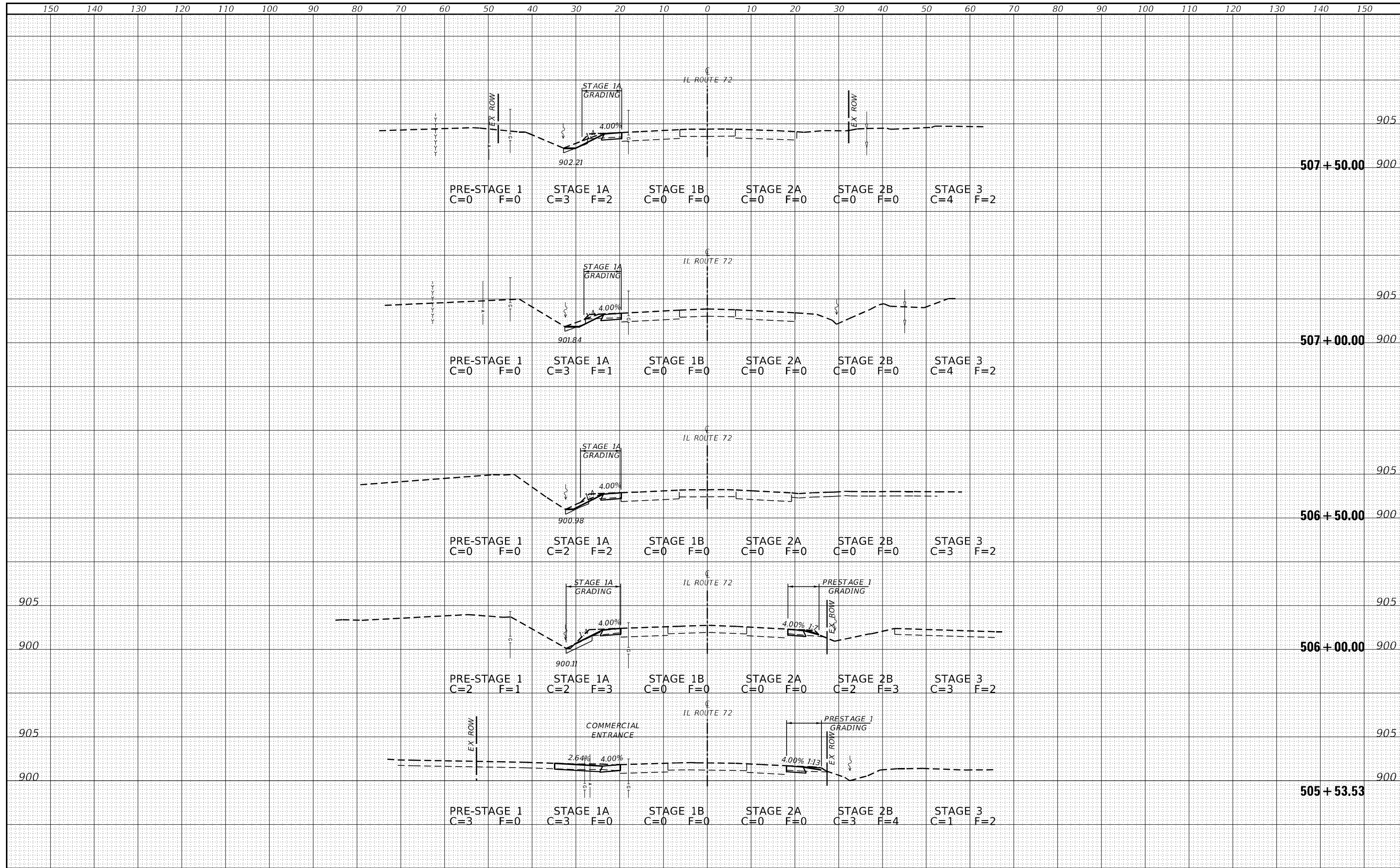
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 IL ROUTE 72**  
 SCALE: SHEET 9 OF 11 SHEETS STA. 504+08.37 TO STA. 505+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	228
CONTRACT NO. 62G11				
ILLINOIS FED. AID PROJECT NHP2-465(549)				

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USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
 PLOT DATE = 4/29/2021

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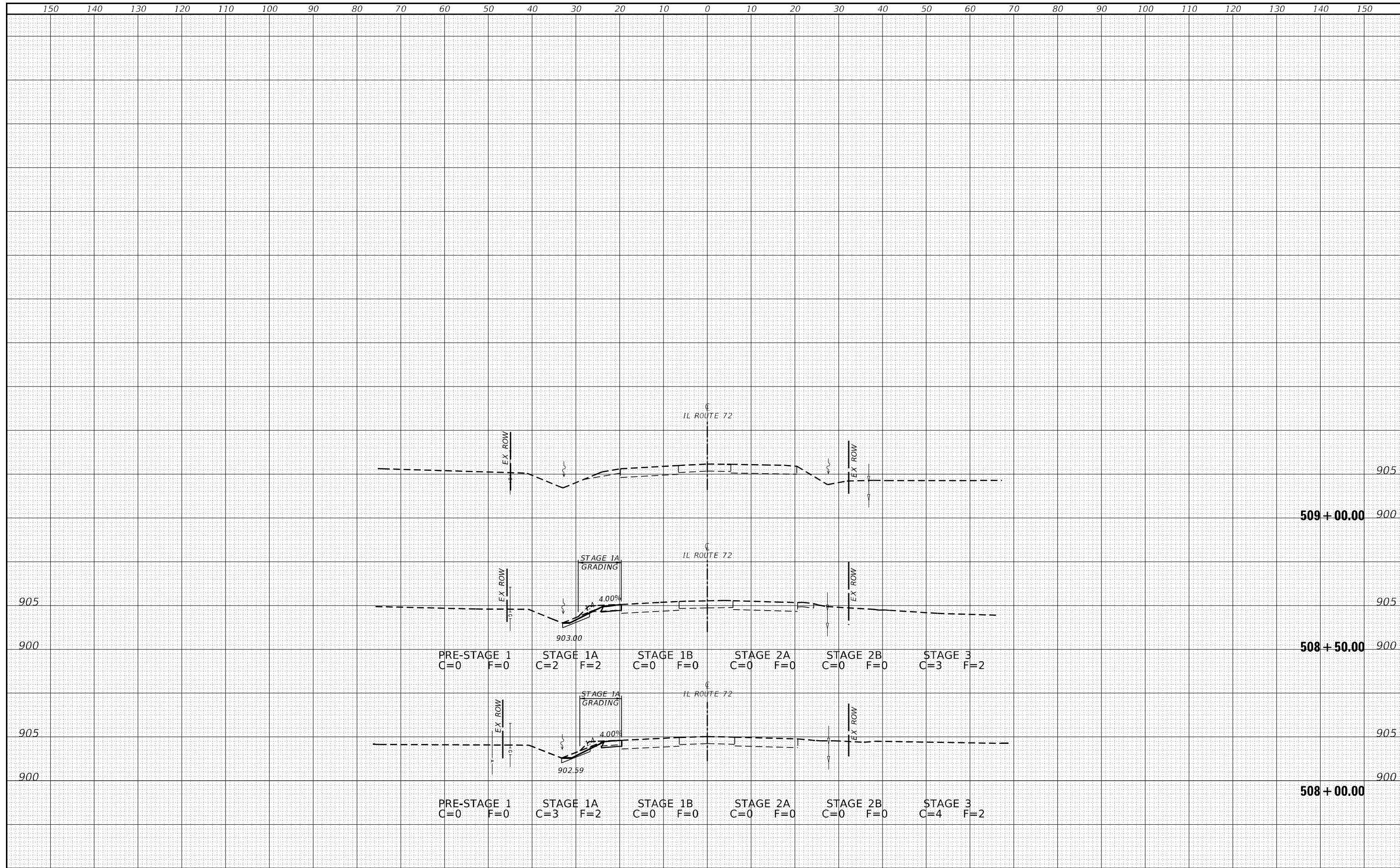
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 IL ROUTE 72  
 SCALE: SHEET 10 OF 11 SHEETS STA. 505+53.53 TO STA. 507+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	227
CONTRACT NO. 62G11				
ILLINOIS FED. AID PROJECT NHP-4465(549)				

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USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
 PLOT DATE = 4/29/2021

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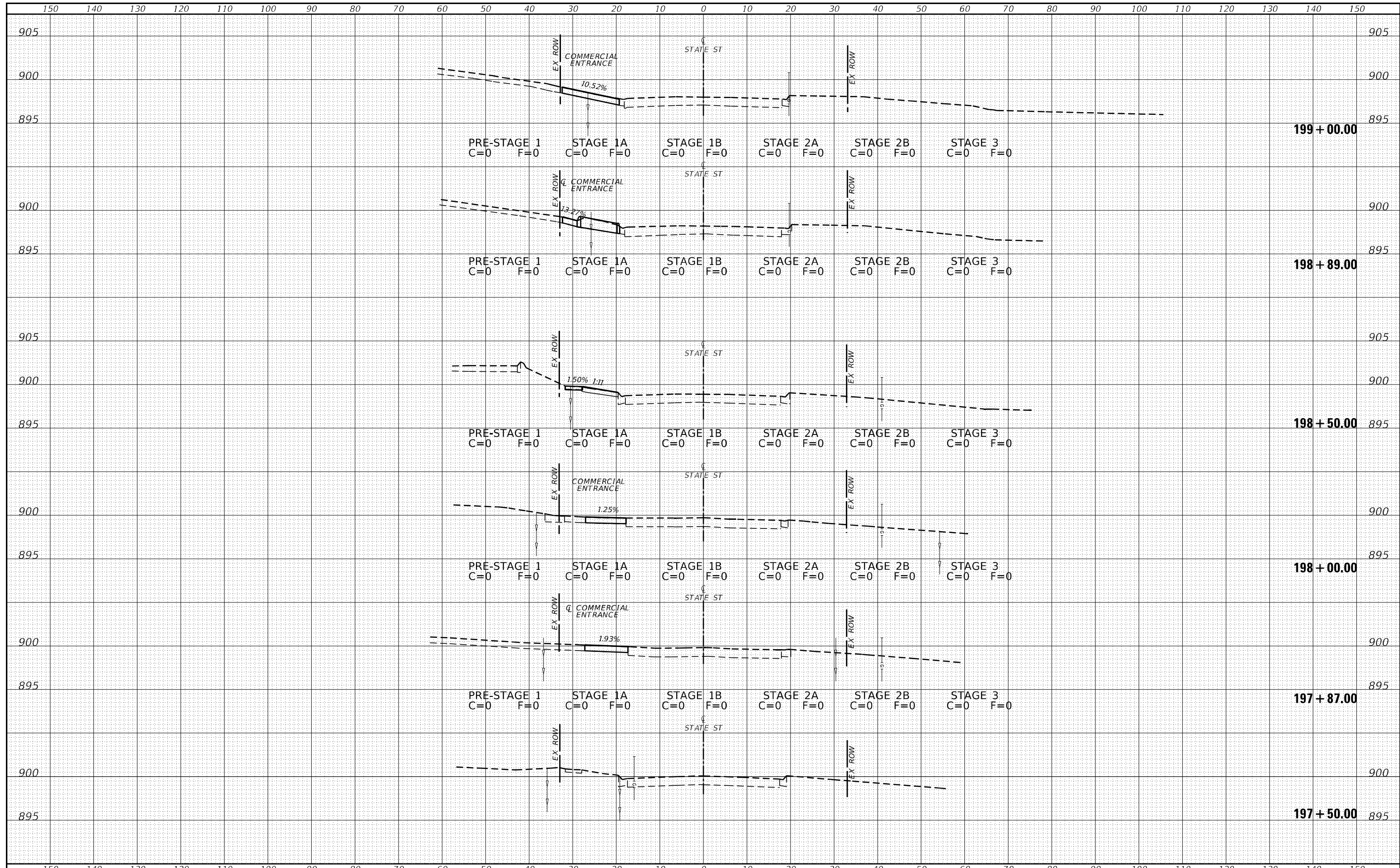
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 IL ROUTE 72**  
 SCALE: SHEET 11 OF 11 SHEETS STA. 508+00.00 TO STA. 509+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	228
CONTRACT NO. 62G11				
ILLINOIS FED. AID PROJECT NHP2-465(549)				

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USER NAME = Betsy  
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 PLOT DATE = 4/29/2021

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

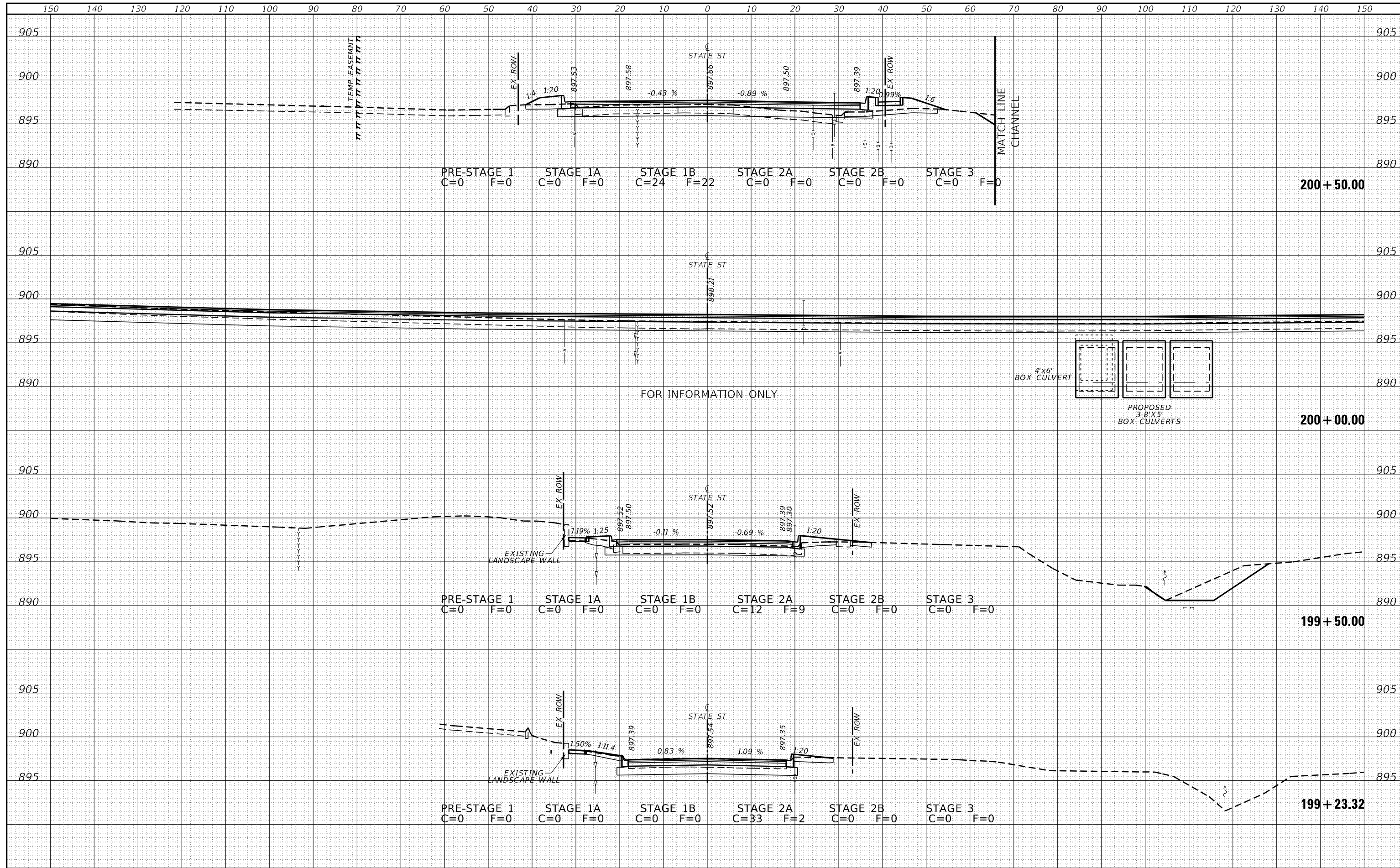
CROSS SECTIONS  
 STATE STREET  
 SCALE: SHEET 1 OF 6 SHEETS STA. 197+50.00 TO STA. 199+00.00

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	229
CONTRACT NO. 62G11				

ILLINOIS FED. AID PROJECT NHPP-465(S49)

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
STATE STREET**

USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
 PLOT DATE = 4/29/2021

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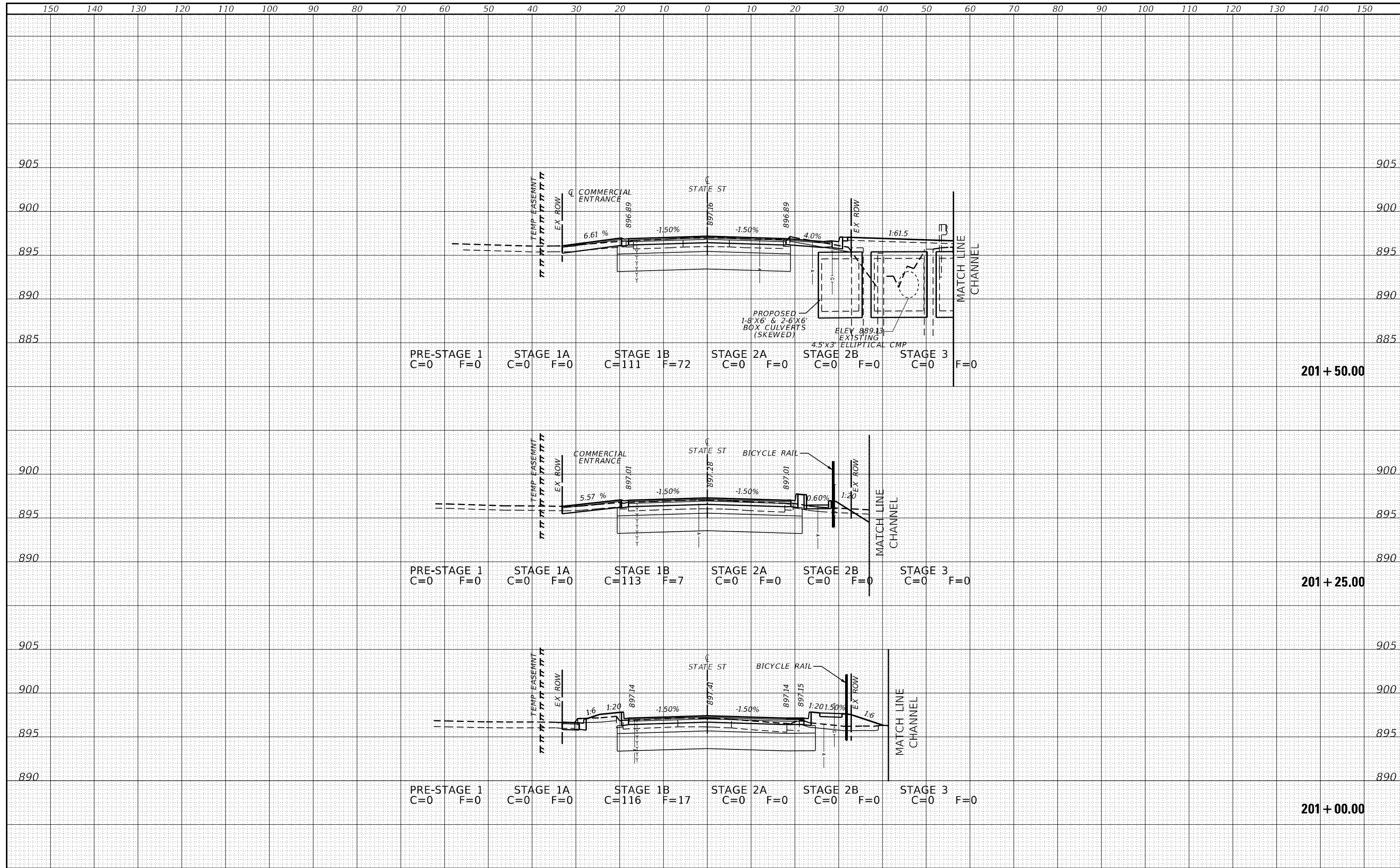
SCALE: SHEET 2 OF 6 SHEETS STA. 199+23.32 TO STA. 200+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	230
				CONTRACT NO. 62G11
				ILLINOIS FED. AID PROJECT NHPP-465(S49)



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USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
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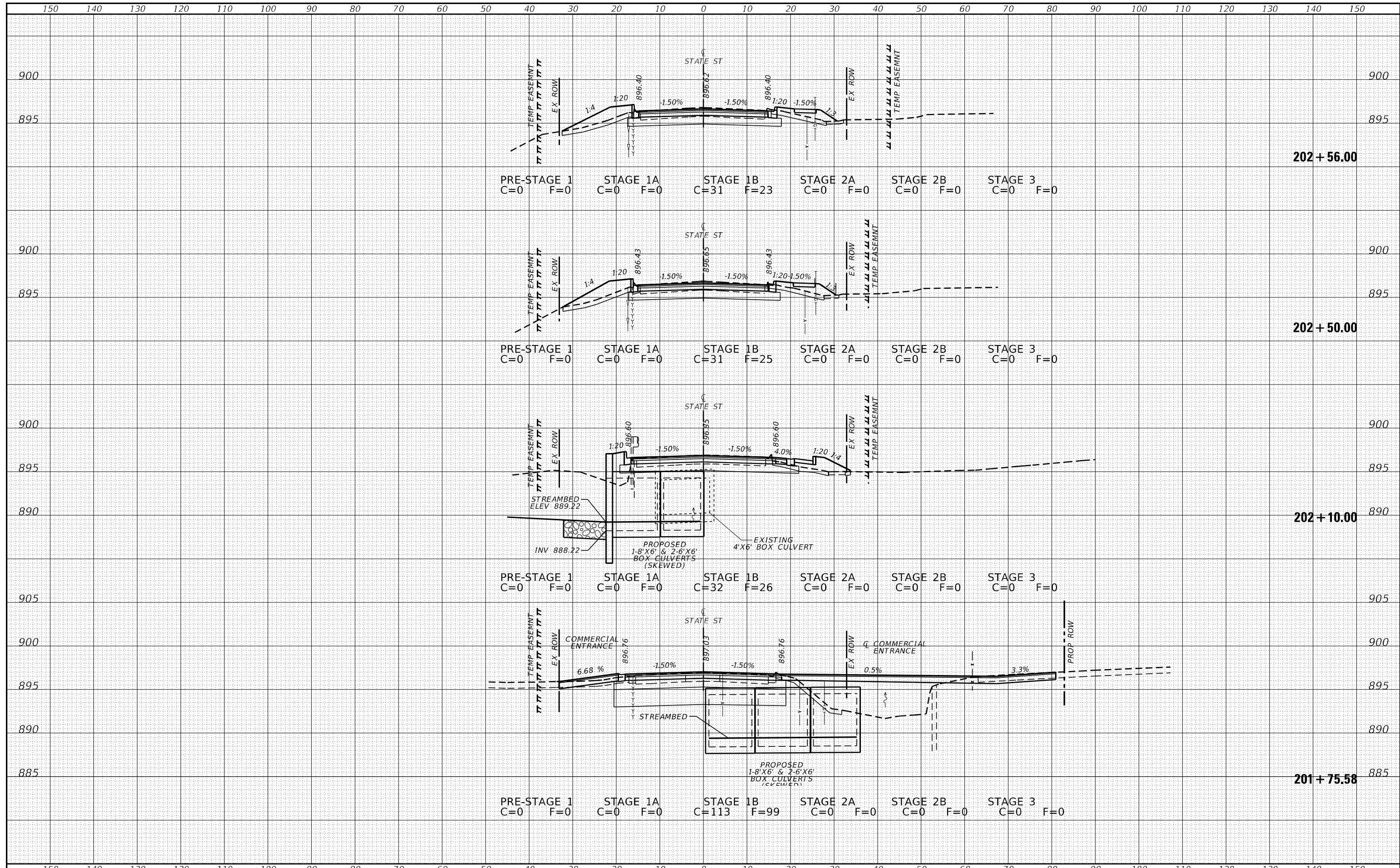
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 STATE STREET**  
 SCALE: SHEET 3 OF 6 SHEETS STA. 201+00.00 TO STA. 201+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	231
CONTRACT NO. 62G11				
ILLINOIS FED. AID PROJECT NHPP-465(S49)				

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USER NAME = Betsy  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 STATE STREET  
 SCALE: SHEET 4 OF 6 SHEETS STA. 201+75.58 TO STA. 202+56.00

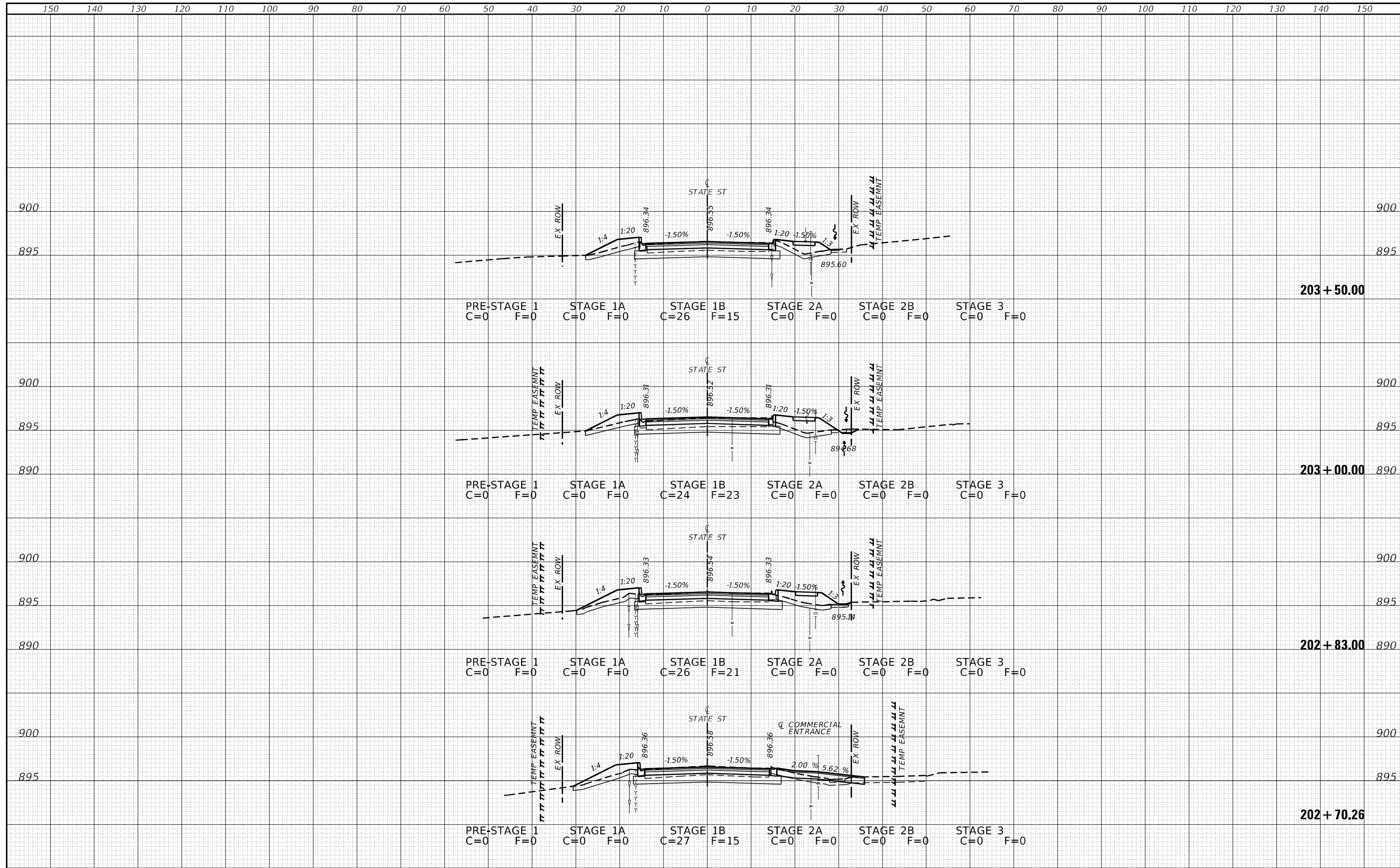
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	232
CONTRACT NO. 62G11				

ILLINOIS FED. AID PROJECT NHPP-465(S49)



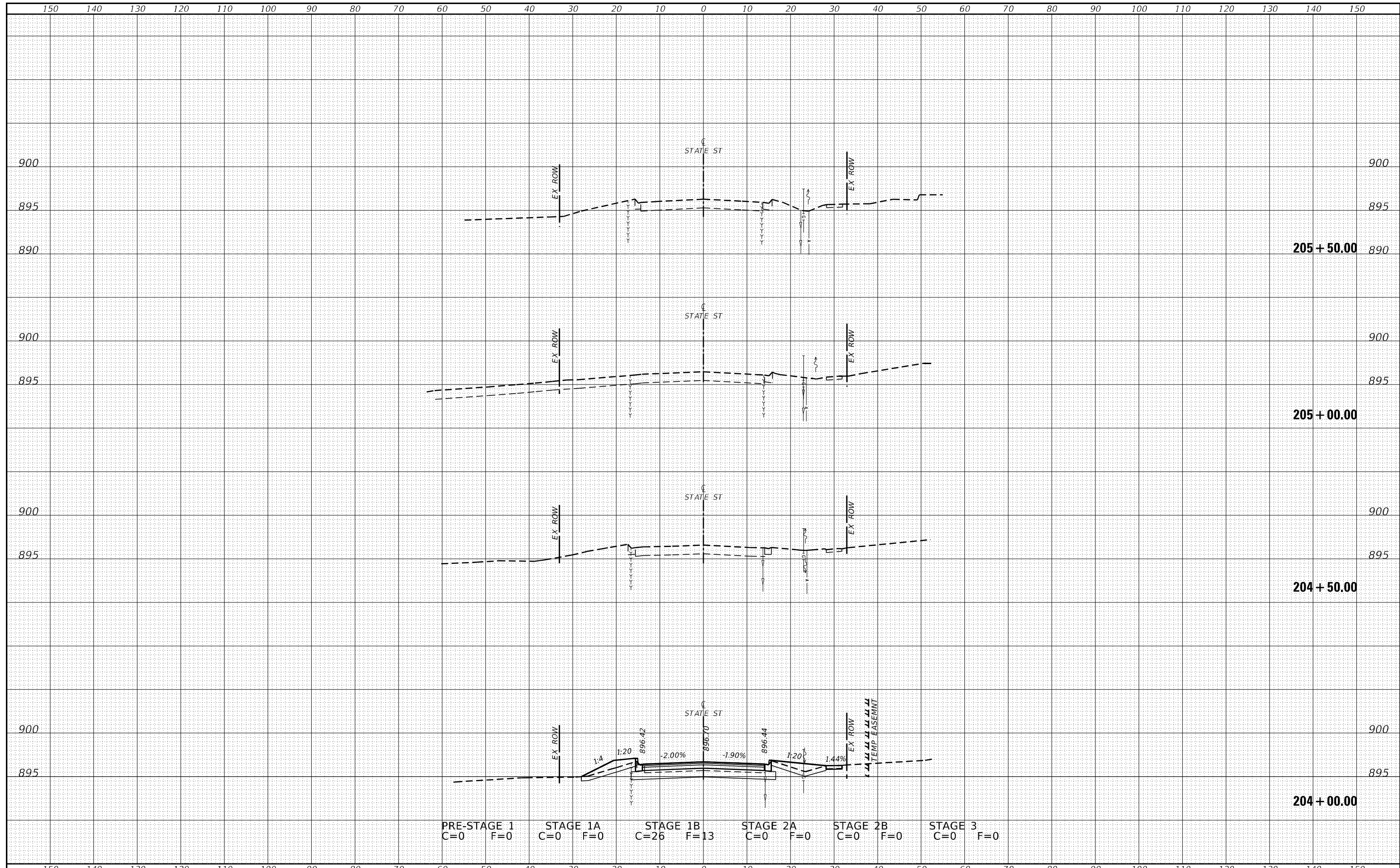
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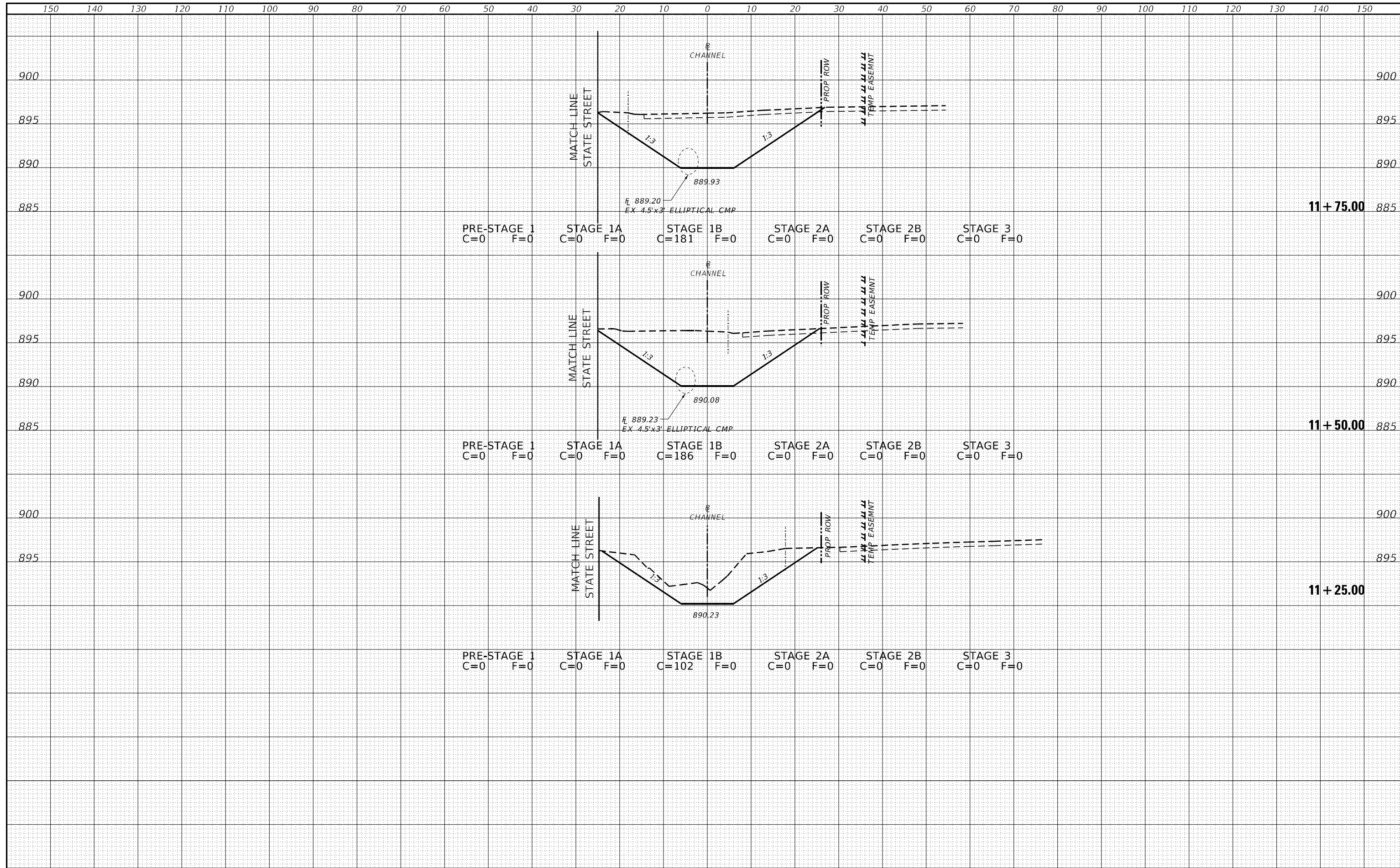
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 STATE STREET**  
 SCALE: SHEET 6 OF 6 SHEETS STA. 204+00.00 TO STA. 205+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	234
				CONTRACT NO. 62G11
ILLINOIS FED. AID PROJECT NHPP-465(S49)				

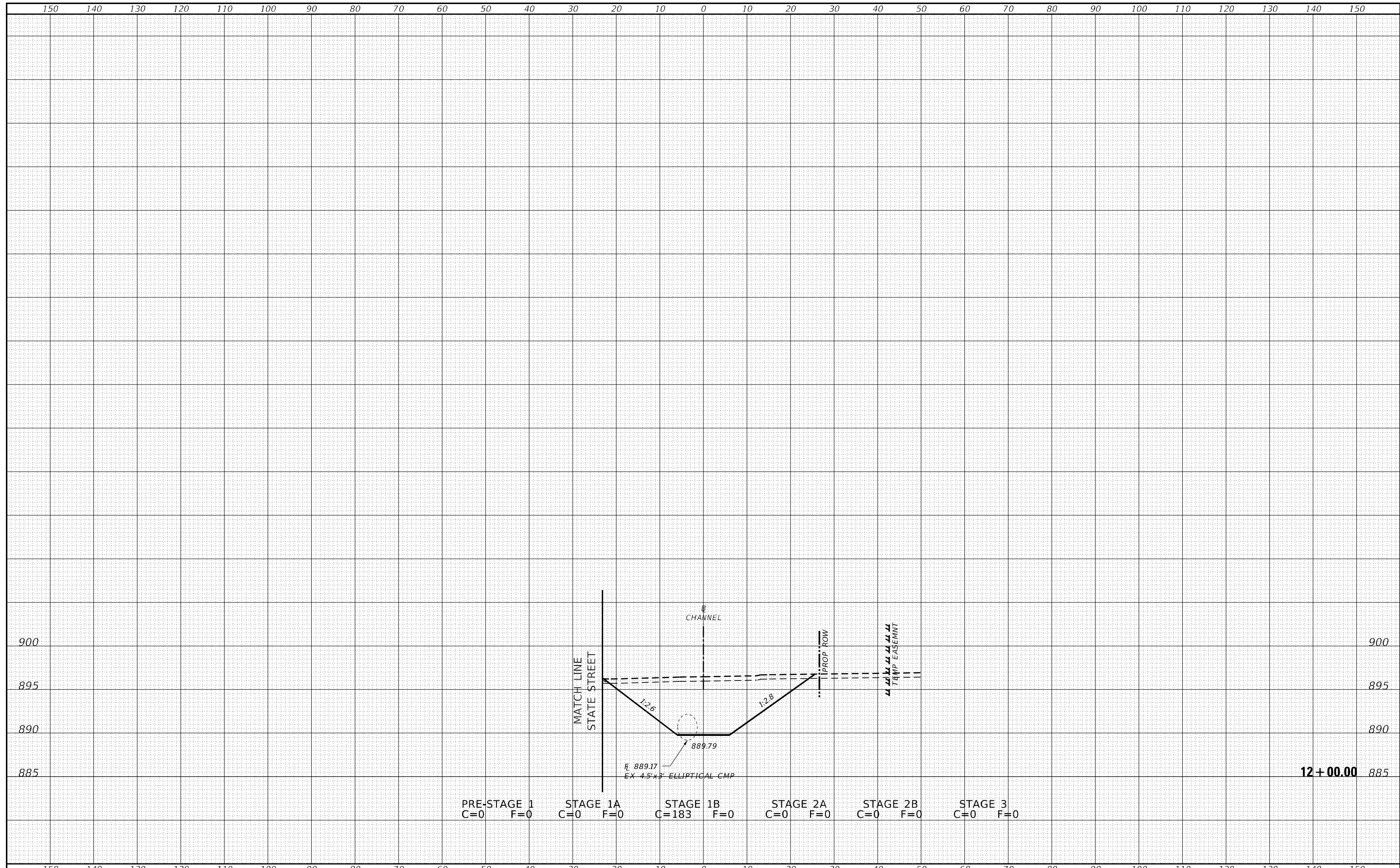
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USER NAME = Betsy  
 PLOT SCALE = 20,000' / 1"  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 CHANNEL  
 SCALE: SHEET 2 OF 2 SHEETS STA. 12+00.00 TO STA. 12+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	32R-DR-1	KANE	236	236
CONTRACT NO.				62G11
ILLINOIS FED. AID PROJECT NHPP-465(549)				