

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	1
		ILLINOIS	CONTRACT NO. 74858	

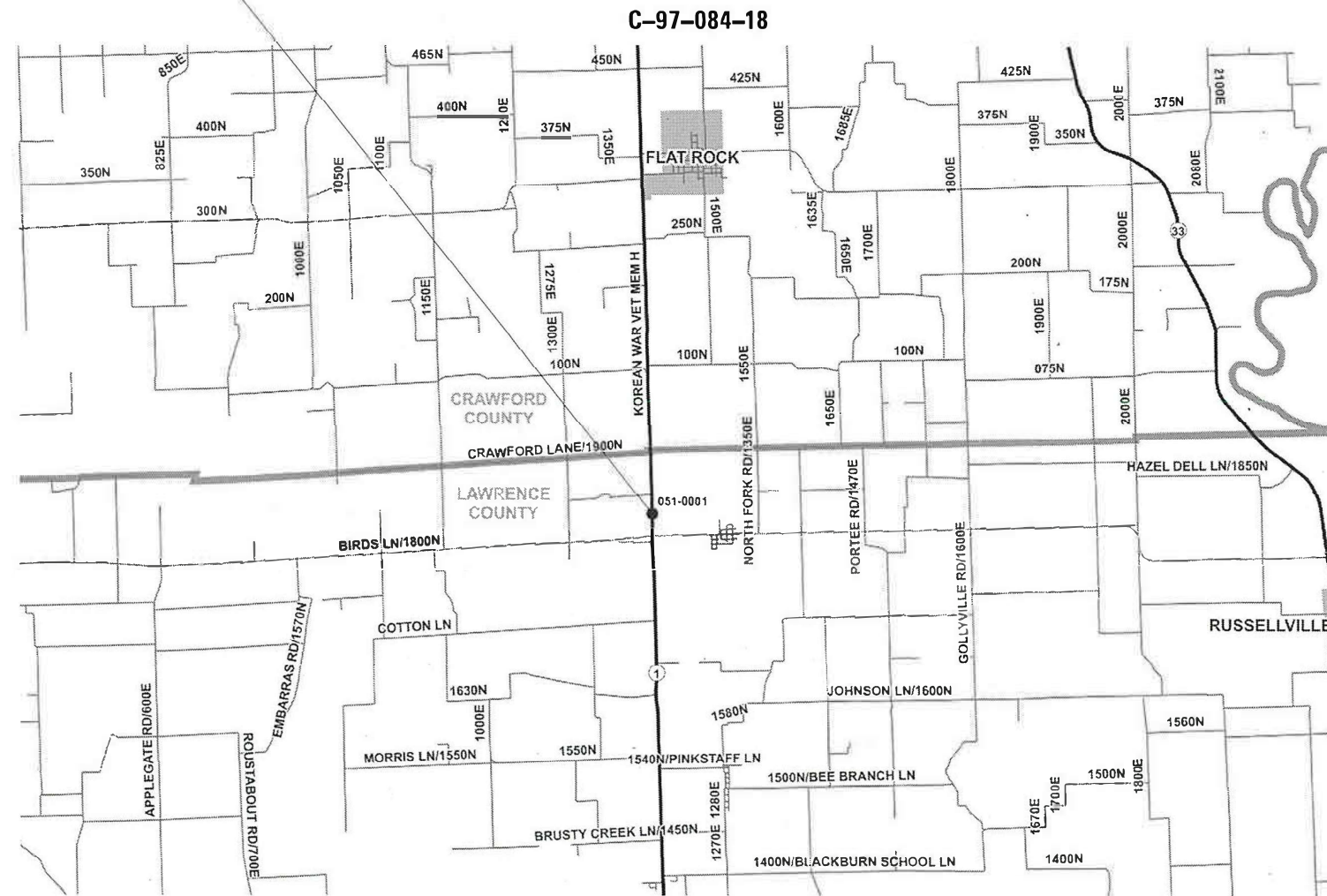
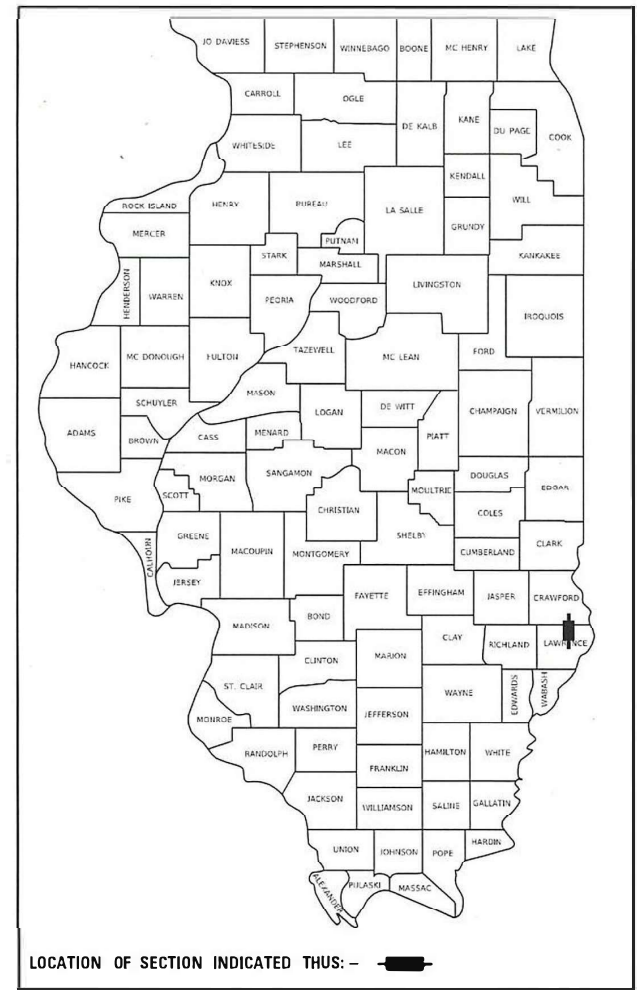
FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 4050 (2024)
ADTT = 749 (2024)

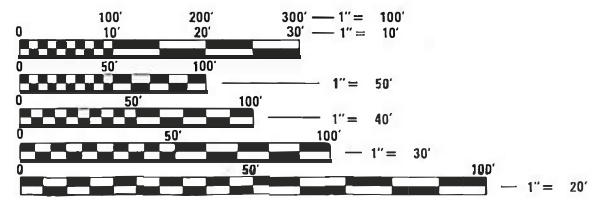
PROPOSED HIGHWAY PLANS

FAP ROUTE 332 (IL 1)
SECTION 18B-1
PROJECT NHPP-K387(682)
BRIDGE REPLACEMENT
LAWRENCE COUNTY

LOCATION OF
PROPOSED
IMPROVEMENT



NET LENGTH = 94 FT. = 0.018 MILE



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER BRIAN LEWIS
PROJECT MANAGER GARRETT HIXENBAUGH

CONTRACT NO. 74858

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 26 2024
Jeffrey P. Myralski
REGIONAL ENGINEER

August 16, 2024
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

August 16, 2024
James J. Gu
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

80% FED
20% STATE

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	13	13		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	23	23		
20200100	EARTH EXCAVATION	CU YD	140	140		
20200500	EARTH EXCAVATION (WIDENING)	CU YD	103	103		
20300100	CHANNEL EXCAVATION	CU YD	454	454		
20700110	POROUS GRANULAR EMBANKMENT	TON	1056	1056		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40	40		
28100109	STONE RIPRAP, CLASS A5	SO YD	159	159		
28200200	FILTER FABRIC	SO YD	159	159		
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING	SO YD	482	482		
	8"					
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	42	42		
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SO YD	251	251		
	(JOINTED)					
44000100	PAVEMENT REMOVAL	SO YD	251	251		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010		
44004250	PAVED SHOULDER REMOVAL	SO YD	115	115		
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SO YD	167	167		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50105220	PIPE CULVERT REMOVAL	FOOT	44	44		
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	205	205		
	FOR STRUCTURES					
50800105	REINFORCEMENT BARS	POUND	35260	35260		
50800515	BAR SPLICERS	EACH	172	172		
51500100	NAME PLATES	EACH	1	1		
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	325	325		
54003000	CONCRETE BOX CULVERTS	CU YD	206.1	206.1		
54262736	METAL FLARED END SECTIONS 36"	EACH	2	2		
542C0241	PIPE CULVERTS, CLASS C, TYPE 1 36"	FOOT	64	64		
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	196	196		

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PLOT DATE = 6/25/2024	DATE -	REVISED -

**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.
332	18B-1	LAWRENCE	29	3
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				

80% FED
20% STATE

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	350	350		
* 63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	50	50		
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	75	75		
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3		
63200310	GUARDRAIL REMOVAL	FOOT	489	489		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	3	3		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1216	1216		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	506	506		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	475	475		
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	60	60		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
* 72500200	OBJECT MARKER - TYPE 2	EACH	1	1		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1773	1773		

* SPECIALTY ITEM

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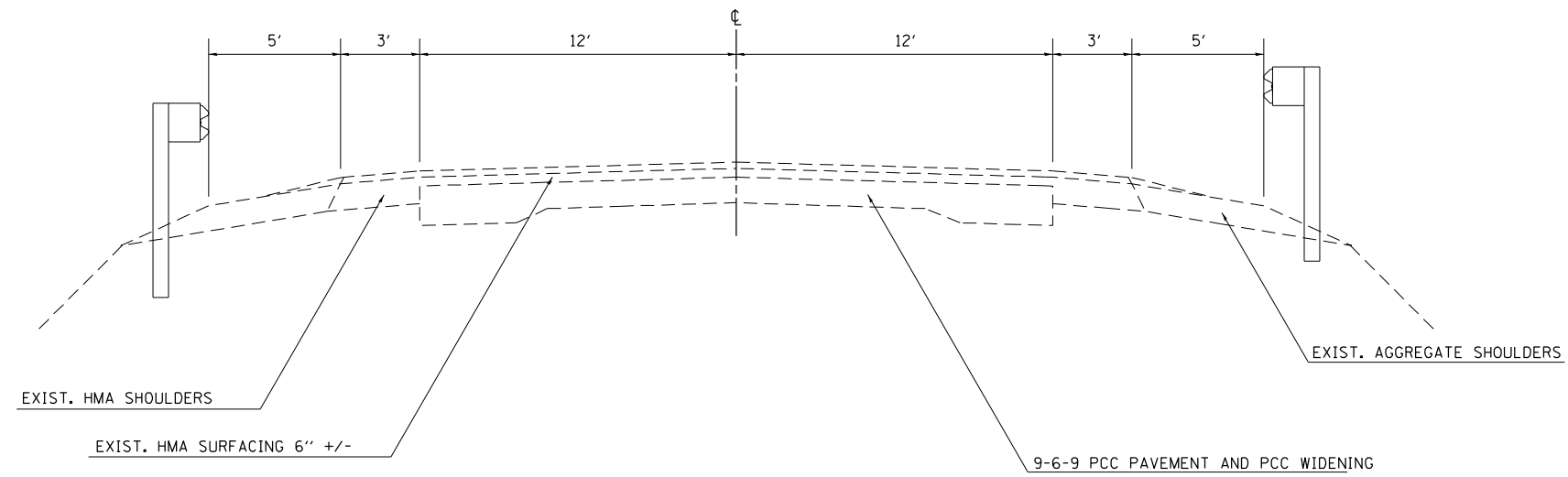
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	4
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				

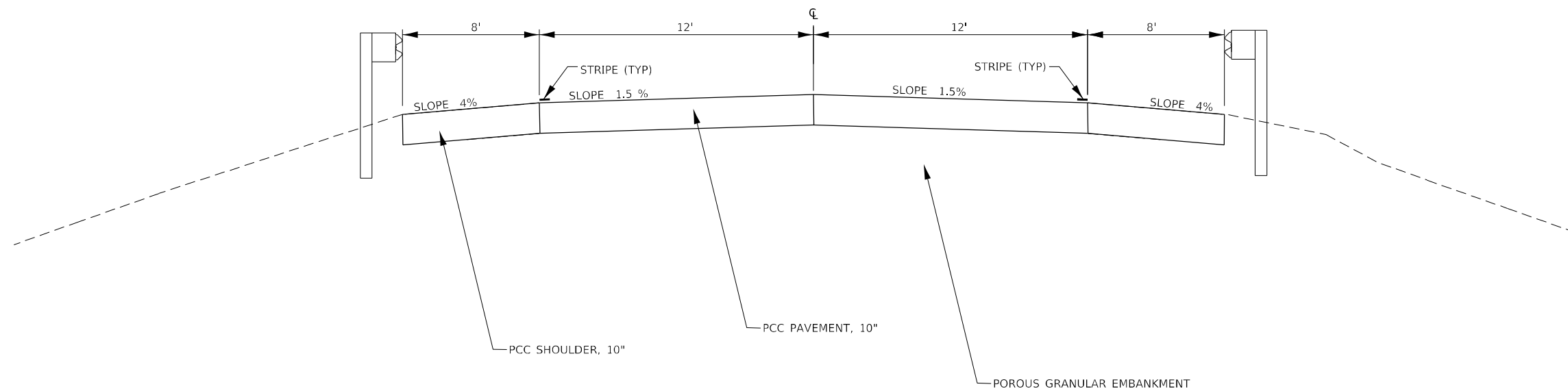
EXISTING TYPICAL SECTION



NOTE: NOT DRAWN TO SCALE

PROPOSED TYPICAL SECTION

400+18 TO 401+12



NOTE: NOT DRAWN TO SCALE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18R-1	LAWRENCE	29	6
74858				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE				
LOCATION	EARTH EXCAVATION CU.YD.	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE CU.YD.	EMBANKMENT CU.YD.	EARTHWORK BALANCE
				WASTE(+) SHORTAGE(-) CU.YD.
EXISTING FIELD ENTRANCE	140	105		105
EARTH EX. WIDENING	103	77		77
PROPOSED FIELD ENTRANCE		0	209	-209
REM. & DISP. UNSUITABLE MATL.	205	154		154
CHANNEL EXCAVATION	454	341		341
TOTALS	902	677	209	468

TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
41' LT STA 400+49	13 UNIT

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
41' LT STA 400+88	23 UNIT

SEEDING, CLASS 2 (SPECIAL)	
LT STA 401+35 TO 403+00	0.25 ACRE

PAINT PAVEMENT MARKING - LINE 4"				4" SOLID WHITE EDGE	4" YELLOW SKIP DASH
STATIONING		LENGTH	SIDE	LINE	LINE
FROM	TO	FOOT		(FOOT)	(FOOT)
396+68	404+56	788.0	CL		197
396+68	404+56	788.0	LT/RT	1576	
TOTALS=				1,576	197
OVERALL TOTAL=				1,773	

SUGGESTED SEQUENCE OF OPERATIONS:

STAGE 1:

- REMOVE TREES SHOWN IN SCHEDULE
- CONSTRUCT WIDENING FOR STAGE 1
- DEPLOY TRAFFIC CONTROL STANDARD 701321
- CONSTRUCT UPSTREAM PORTION OF BOX CULVERT
- CONSTRUCT PAVEMENT AND SHOULDER FOR SOUTHBOUND
- REMOVE EXISTING FIELD ENTRANCE AND RECONSTRUCT
- CONSTRUCT WIDENING FOR STAGE 2
- INSTALL GUARDRAIL ON WEST SIDE OF ROAD

STAGE 2:

- RELOCATE BARRIER FOR STAGE 2 AND MOVE TRAFFIC TO NEW PAVEMENT
- CONSTRUCT DOWNSTREAM PORTION OF BOX CULVERT
- CONSTRUCT PAVEMENT AND SHOULDER FOR NORTHBOUND
- INSTALL GUARDRAIL ON EAST SIDE OF ROAD
- REMOVE BARRIER AND RESTORE TWO-WAY TRAFFIC
- CONSTRUCT SEEDING, RIPRAP AND PAVEMENT MARKING

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SCHEDULES

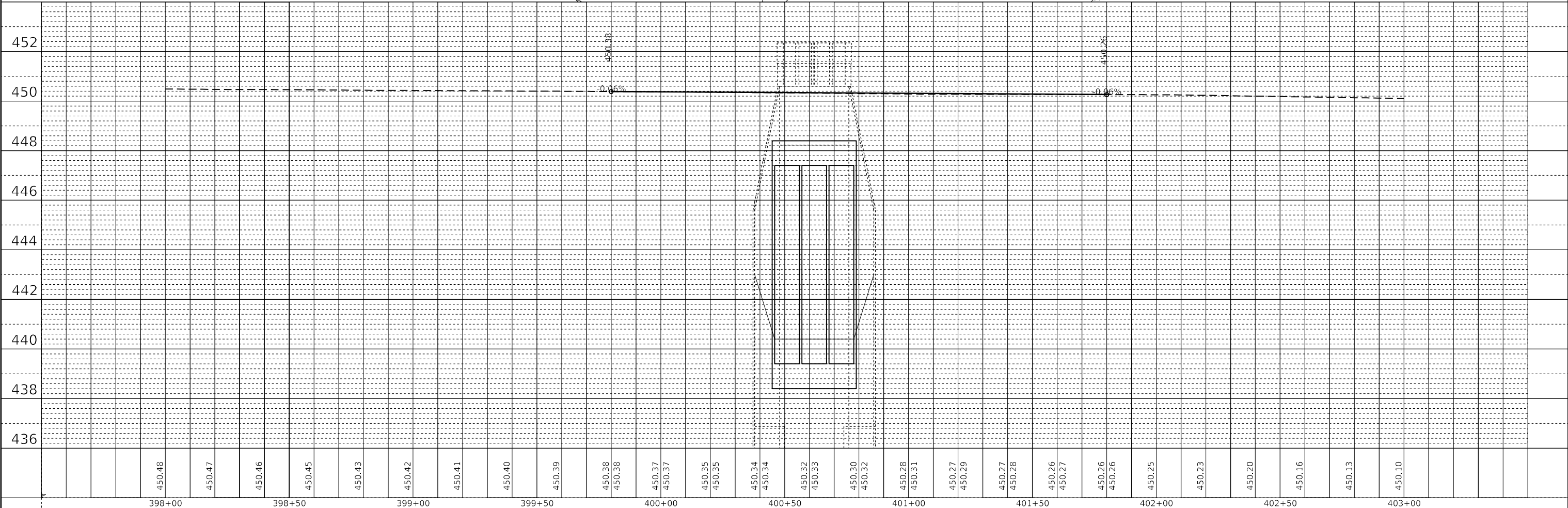
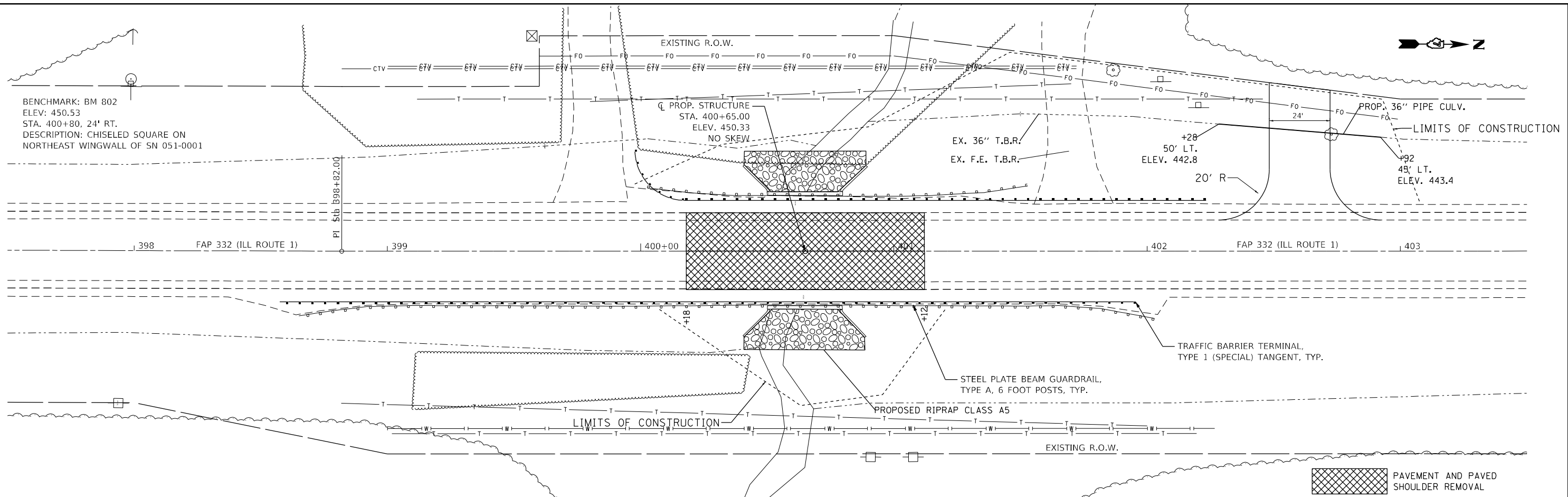
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	7
			CONTRACT NO. 74858	
		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATION CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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	NOTE BOOK NO.	
	CADD FILE NAME	

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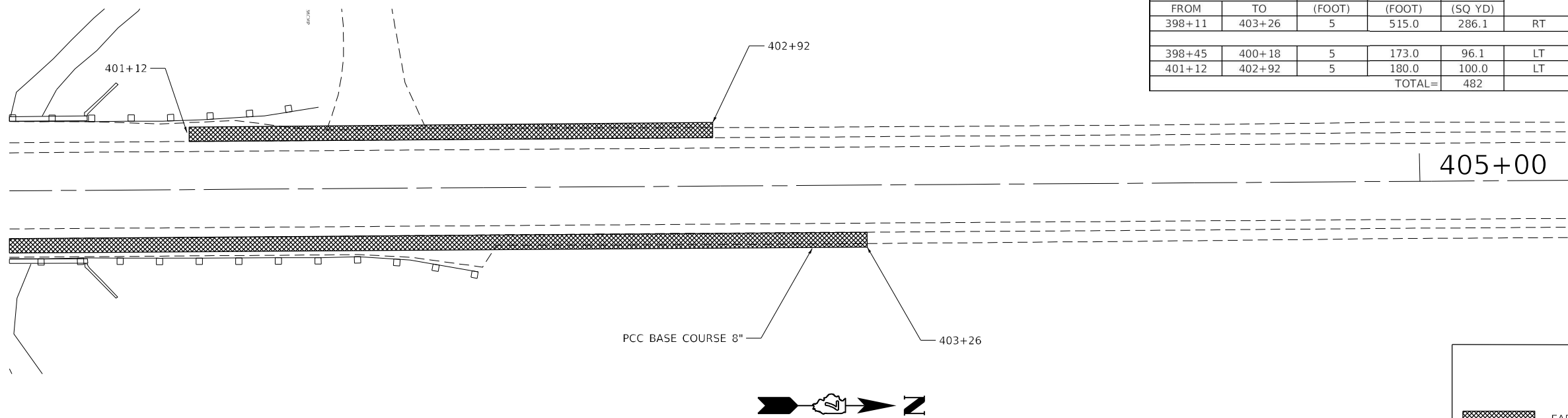
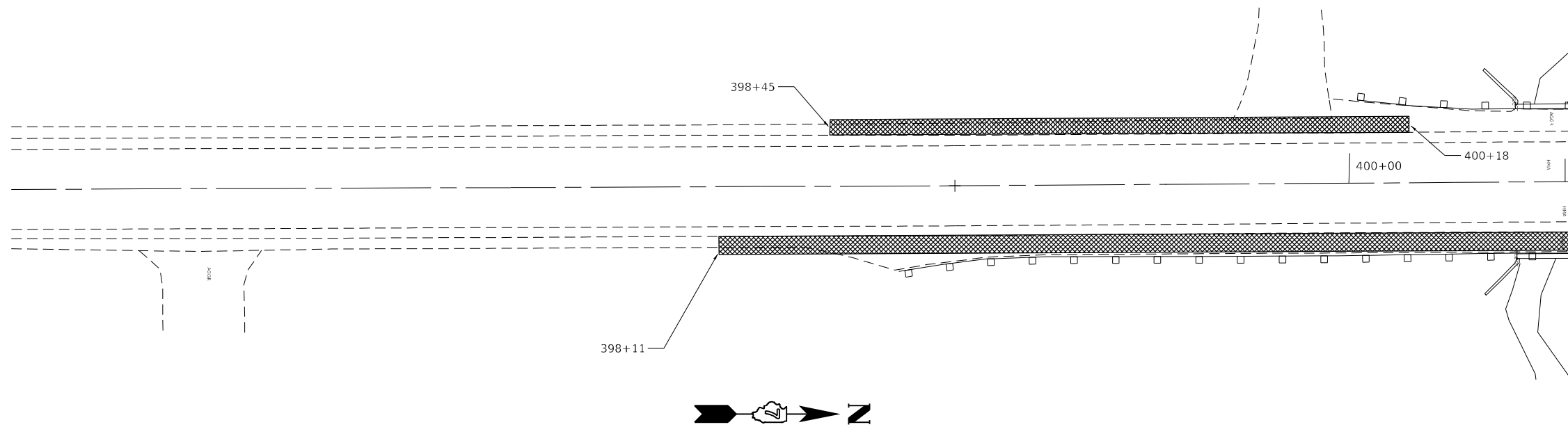


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PLOT DATE	= 6/25/2024	DATE	- 6/25/2024	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**


PLAN & PROFILE SHEET	
SN 051-2011	
SCALE: 40,0000 ' / in.	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	188-1	LAWRENCE	29	8
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				



PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"					
STATIONING		WIDENING WIDTH (FOOT)	WIDENING LENGTH (FOOT)	WIDENING AREA (SQ YD)	SIDE
FROM	TO				
398+11	403+26	5	515.0	286.1	RT
398+45	400+18	5	173.0	96.1	LT
401+12	402+92	5	180.0	100.0	LT
TOTAL=				482	

405+00

SYMBOLS	
	EARTH EXCAVATION (WIDENING)

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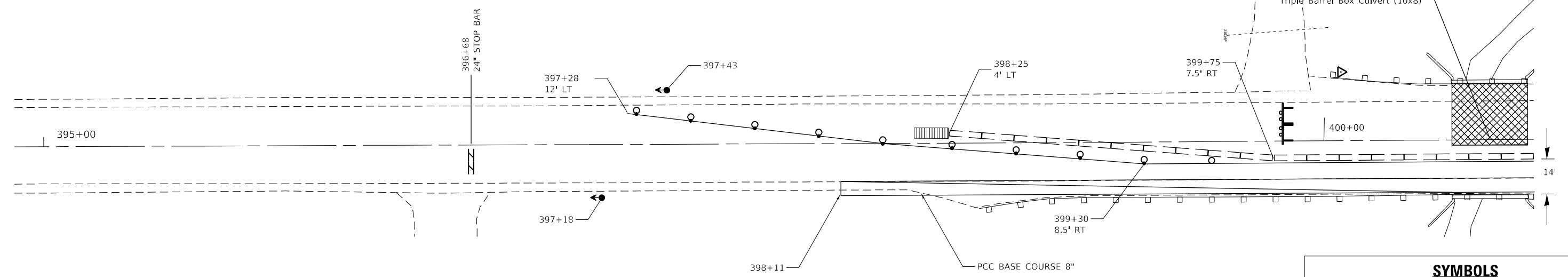
WIDENING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	9
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				



Existing SN 051-0001
Proposed SN 051-2011
C.L. Station 400+65, Skew = 0°
Triple Barrel Box Culvert (10x8)



TEMPORARY CONCRETE BARRIER			
STAGE 1			
398+25	403+00	475	FOOT
TOTAL=		475	FOOT

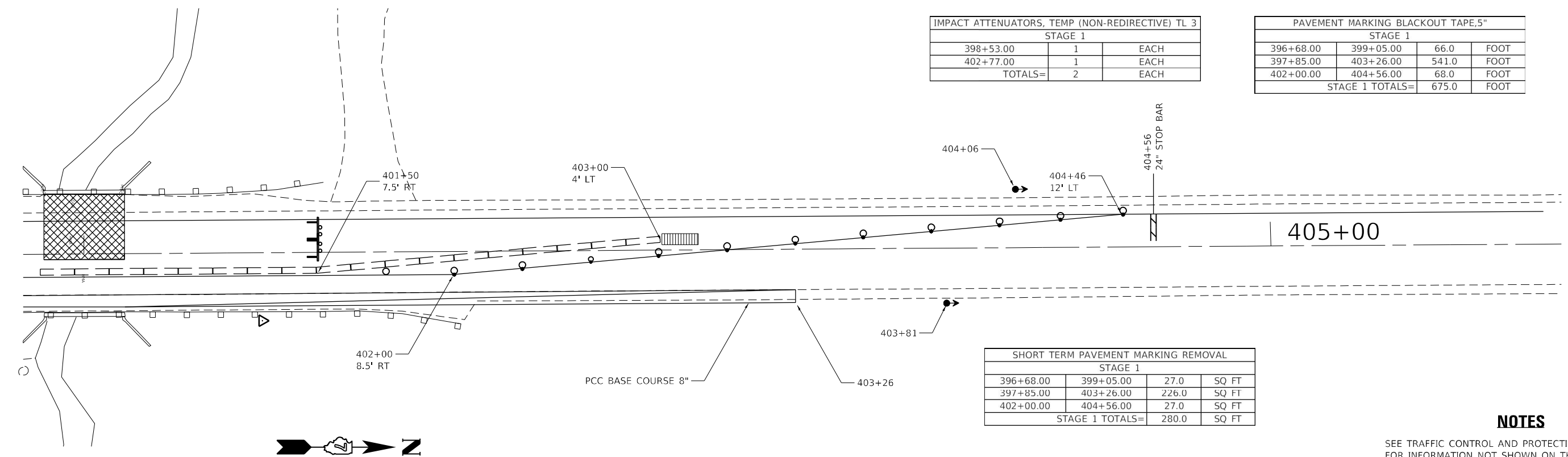
IMPACT ATTENUATORS, TEMP (NON-REDIRECTIVE) TL 3			
STAGE 1			
0398+53	1	EACH	
0402+77	1	EACH	
TOTALS	2	EACH	

SYMBOLS	
	WORK AREA
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	TEMPORARY CONCRETE BARRIER
	TYPE III BARRICADE WITH FLASHING LIGHTS
	TRAFFIC SIGNAL
	IMPACT ATTENUATOR
	DRUM

NOTE: PIN 8 SECTIONS OF TCB IN THE PORTION PARALLEL TO CENTERLINE, TRANSITION PIN TWO SECTIONS ON EITHER SIDE OF THOSE.

IMPACT ATTENUATORS, TEMP (NON-REDIRECTIVE) TL 3			
STAGE 1			
398+53.00	1	EACH	
402+77.00	1	EACH	
TOTALS=	2	EACH	

PAVEMENT MARKING BLACKOUT TAPE, 5"			
STAGE 1			
396+68.00	399+05.00	66.0	FOOT
397+85.00	403+26.00	541.0	FOOT
402+00.00	404+56.00	68.0	FOOT
STAGE 1 TOTALS=		675.0	FOOT



SHORT TERM PAVEMENT MARKING REMOVAL			
STAGE 1			
396+68.00	399+05.00	27.0	SQ FT
397+85.00	403+26.00	226.0	SQ FT
402+00.00	404+56.00	27.0	SQ FT
STAGE 1 TOTALS=		280.0	SQ FT

NOTES

SEE TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FOR INFORMATION NOT SHOWN ON THIS SHEET.

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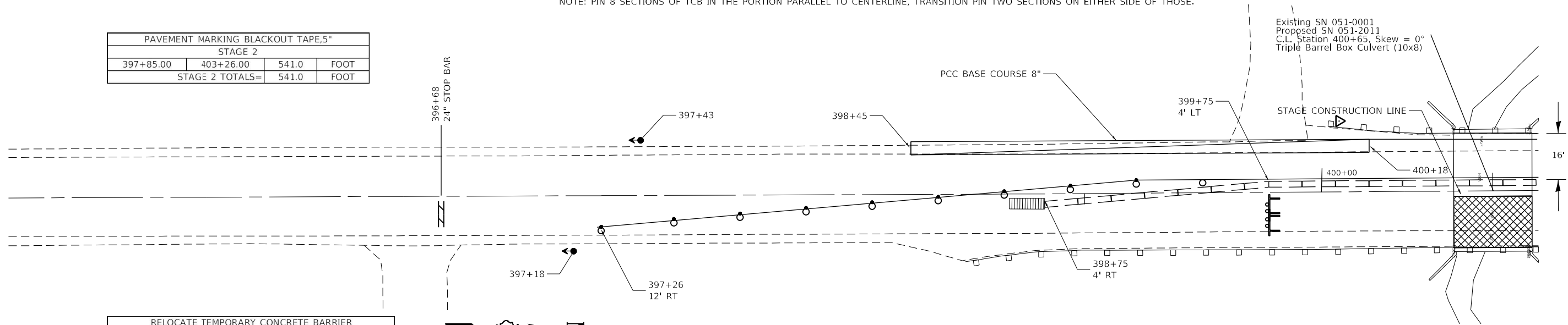
STAGE 1 TRAFFIC CONTROL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 18B-1	COUNTY LAWRENCE	TOTAL SHEETS 29	SHEET NO. 10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74858	

NOTE: PIN 8 SECTIONS OF TCB IN THE PORTION PARALLEL TO CENTERLINE, TRANSITION PIN TWO SECTIONS ON EITHER SIDE OF THOSE.

PAVEMENT MARKING BLACKOUT TAPE, 5"			
STAGE 2			
397+85.00	403+26.00	541.0	FOOT
STAGE 2 TOTALS=		541.0	FOOT



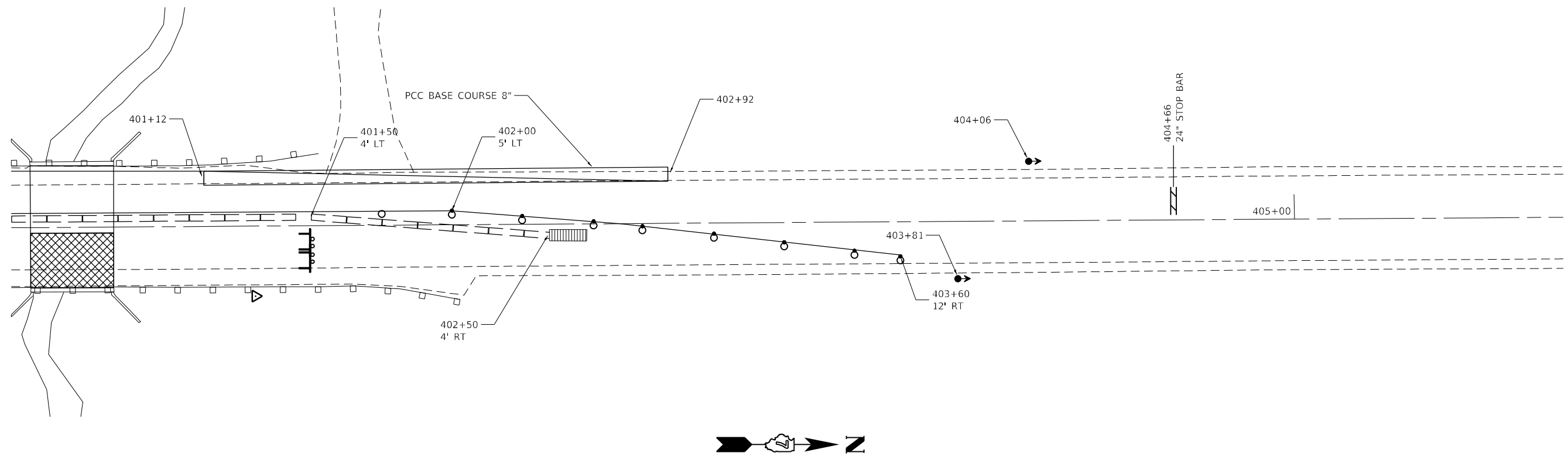
RELOCATE TEMPORARY CONCRETE BARRIER			
STAGE 2			
398+75	402+50	375	FOOT
TOTALS=		375	FOOT

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE) TL 3			
STAGE 2			
398+95	1		EACH
402+35	1		EACH
TOTALS=		2	EACH

SHORT TERM PAVEMENT MARKING REMOVAL			
STAGE 2			
397+85.00	403+26.00	226.0	SQ FT
STAGE 2 TOTALS=		226.0	SQ FT

SYMBOLS

- WORK AREA
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL
- IMPACT ATTENUATOR
- DRUM



NOTES

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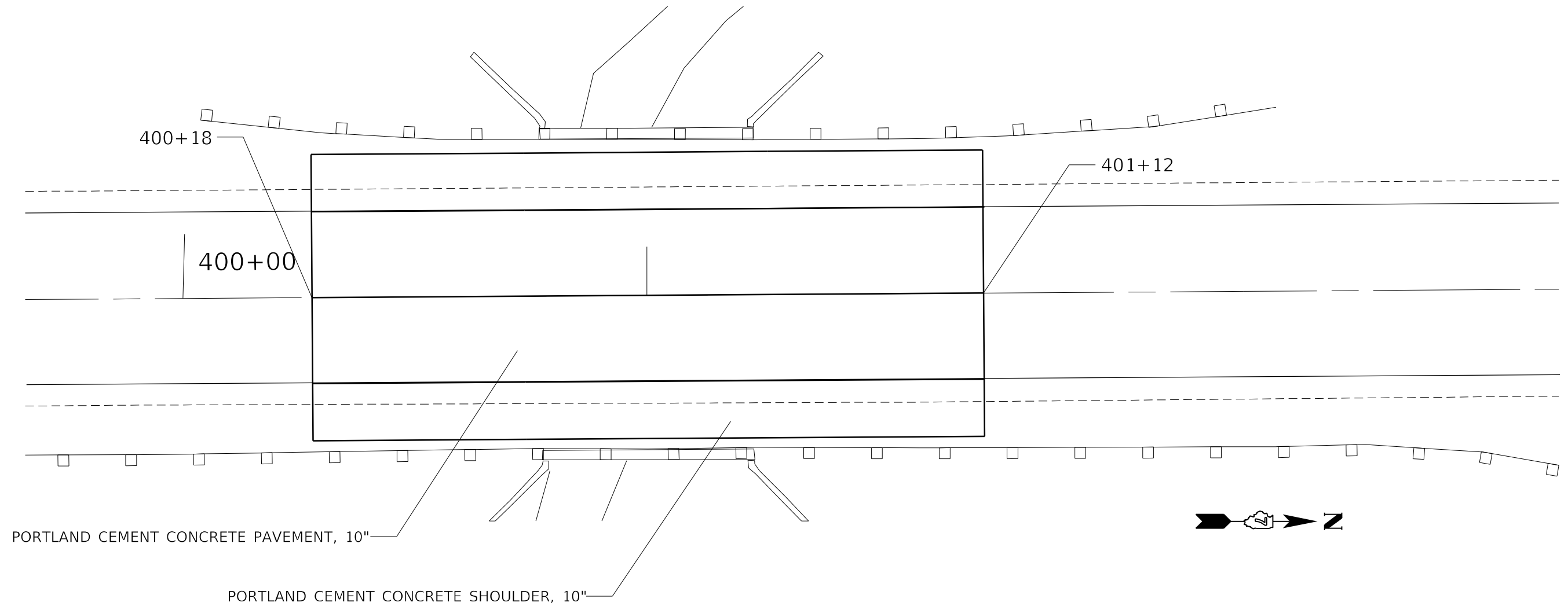
STAGE 2 TRAFFIC CONTROL

SCALE: SHEET OF SHEETS STA. TO STA.

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332	18B-1	LAWRENCE	29	11
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PCC PAVT 10" (JOINTED)						
STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	NOTE
400+18.00	TO	401+12.00	94	24	250.7	NB AND SB LANES
					TOTAL=	251 SQ YD

PCC SHOULDER, 10"							
SN	NB/SB	STATION	STATION	LENGTH	WIDTH (FT)	AREA (SQ FT)	SQ YD
051-2011	NB	400+18	401+12	94	8	752.0	83.6
	SB	400+18	401+12	94	8	752.0	83.6
						TOTAL=	167



PORTLAND CEMENT CONCRETE PAVEMENT, 10"

PORTLAND CEMENT CONCRETE SHOULDER, 10"

PAVEMENT REMOVAL						
SIDE	STATION	TO	STATION	AREA (SQ FT)	AREA (SQ YD)	NOTES
LT/RT	400+18.00	TO	401+12	2256.0	250.7	
					TOTAL=	251 SQ YD

PAVED SHOULDER REMOVAL					
STATIONING		WIDTH	LENGTH	AREA	
FROM	TO	(FOOT)	(FOOT)	(SQ YD)	
LEFT					
400+18.00	401+12.00	3	94.0	31.3	
RIGHT					
400+18.00	401+12.00	8	94.0	83.6	
				TOTAL=	115

NOTES

DRAWING NOT TO SCALE

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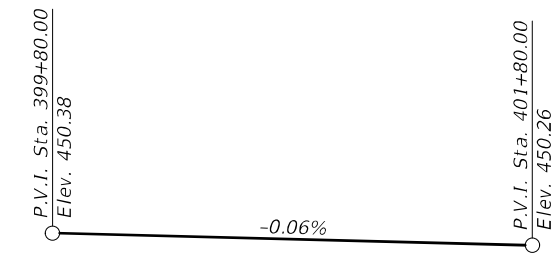
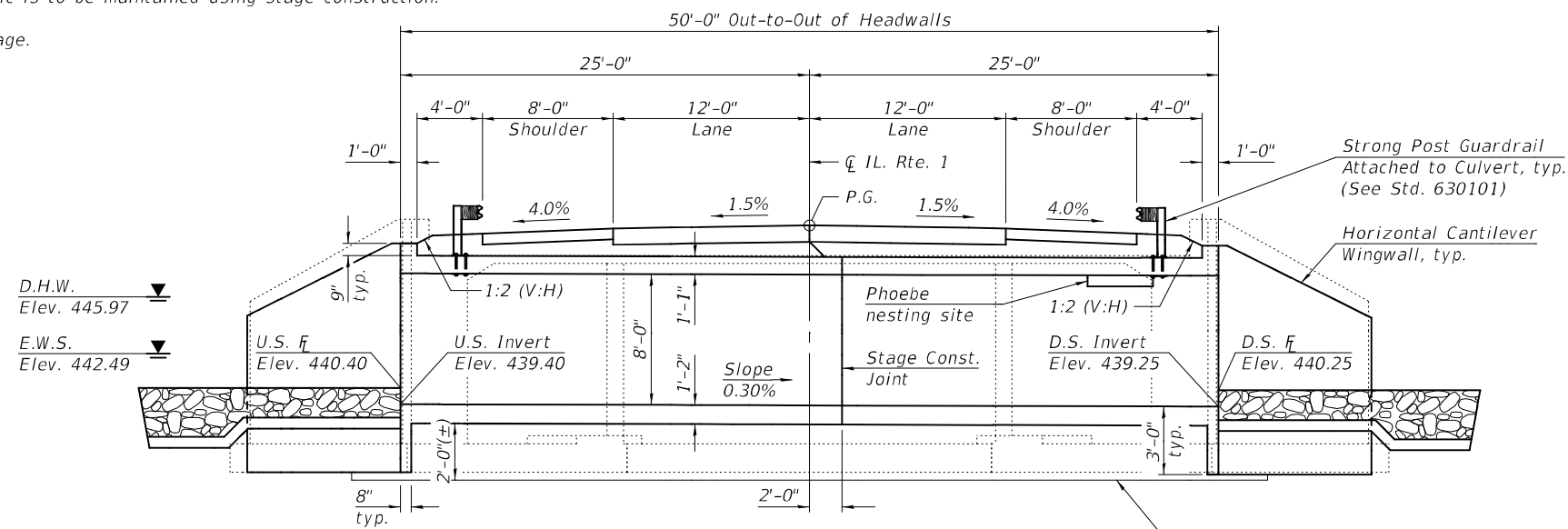
PROPOSED PAVEMENT AND SHOULDER				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	12
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				

Benchmark: BM 802 - Chiseled square on northeast wingwall of S.N. 051-0001, Sta. 400+80, Offset 24' Rt. Elev = 450.53

Existing Structure: S.N. 051-0001 was originally constructed in 1921 under S.B.I. Rte. 1 Section 18 A&B and consisted of a reinforced concrete slab superstructure supported on closed abutments and untreated timber piles. The original structure was widened in 1962 and consists of a single-span slab bridge with a back-to-back abutment length of 30'-0" and an out-to-out width of 46'-4". The structure has no skew. The existing structure is to be removed and replaced. Traffic is to be maintained using stage construction.

No Salvage.



DESIGN STRESSES

FIELD UNITS

f_c = 3,500 psi

f_y = 60,000 psi (Reinforcement)

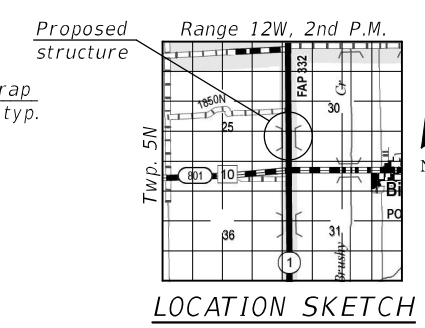
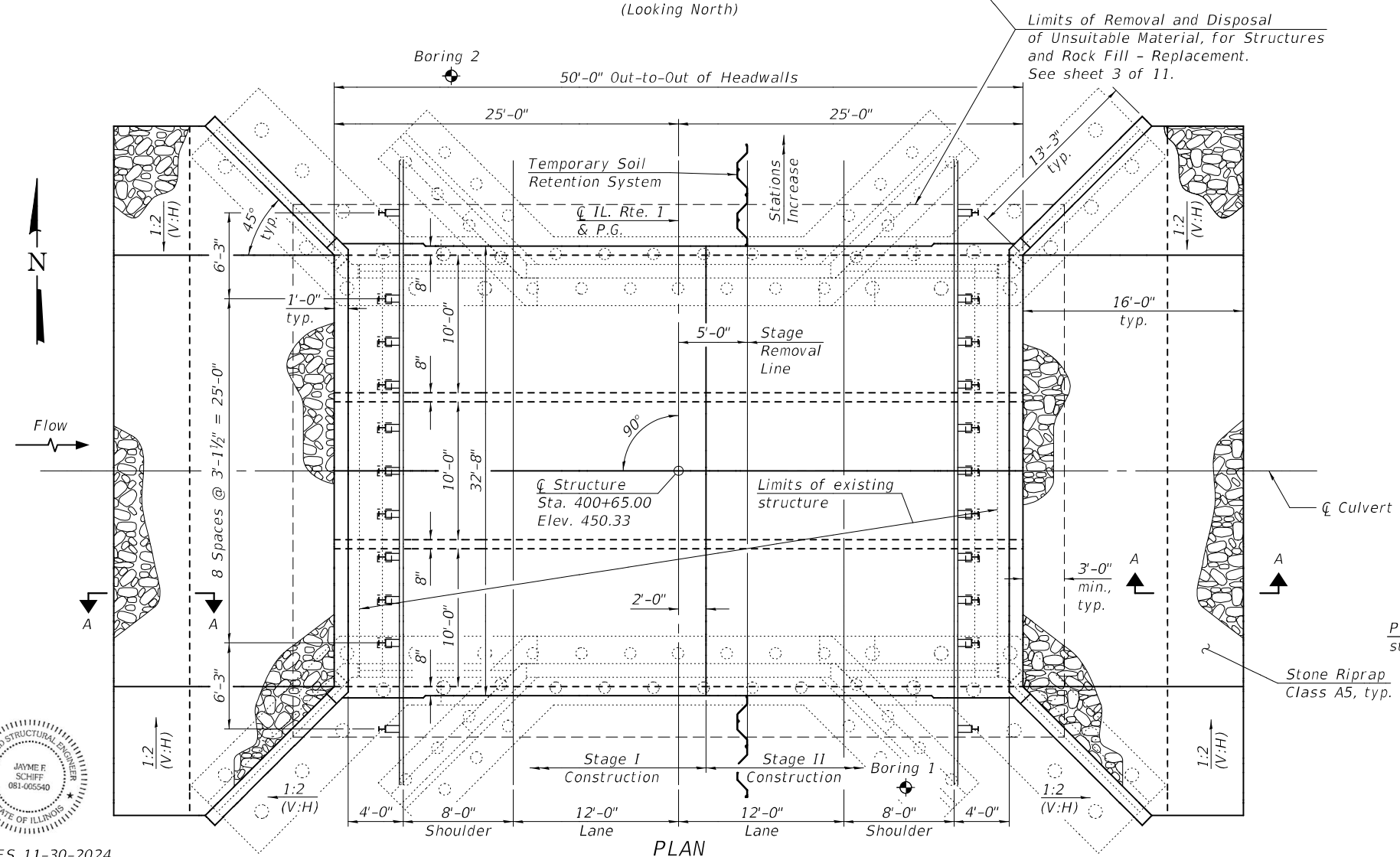
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

- INDEX OF SHEETS**
- 1 - General Plan & Elevation
 - 2 - General Data
 - 3 - Stage Construction Details
 - 4 - Temporary Soil Retention System
 - 5 - Temporary Concrete Barrier
 - 6 - Top and Bottom Slab
 - 7 - Culvert Sections
 - 8 - Wingwall Details
 - 9 - Culvert Details
 - 10 - Bar Splicer Assembly Details
 - 11 - Soil Boring Logs



GENERAL PLAN & ELEVATION

ILLINOIS ROUTE 1 OVER UNNAMED CREEK

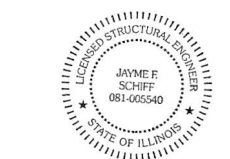
F.A.P. ROUTE 332 - SECTION 18B-1

LAWRENCE COUNTY

STATION 400+65.00

STRUCTURE NO. 051-2011

MODEL: SMODELNAMES
FILE NAME: \$FILES



EXPIRES 11-30-2024

DESIGNED - RYAN P. NEGANGARD	EXAMINED - <i>Mark Muller</i>
CHECKED - JOSHUA S. FLAIG	ENGINEER OF BRIDGE DESIGN
DRAWN - ANTHONY J. NOVELLO / D.A.P.	PASSED - <i>Jayme F. Schiff</i>
CHECKED - R.P.N. / J.S.F.	ENGINEER OF BRIDGES AND STRUCTURES

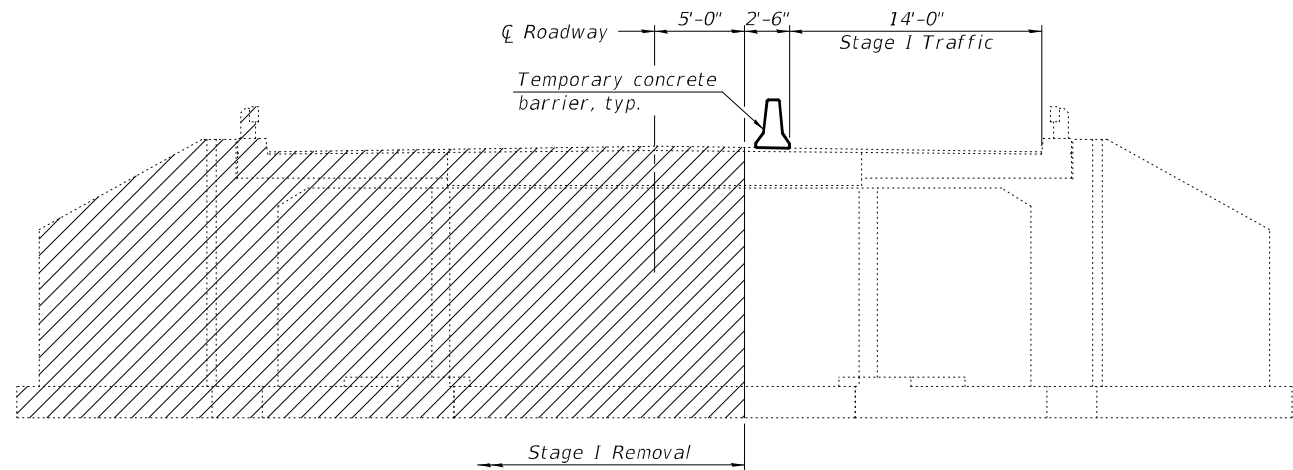
DATE - August 21, 2024
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DEPARTMENT OF TRANSPORTATION

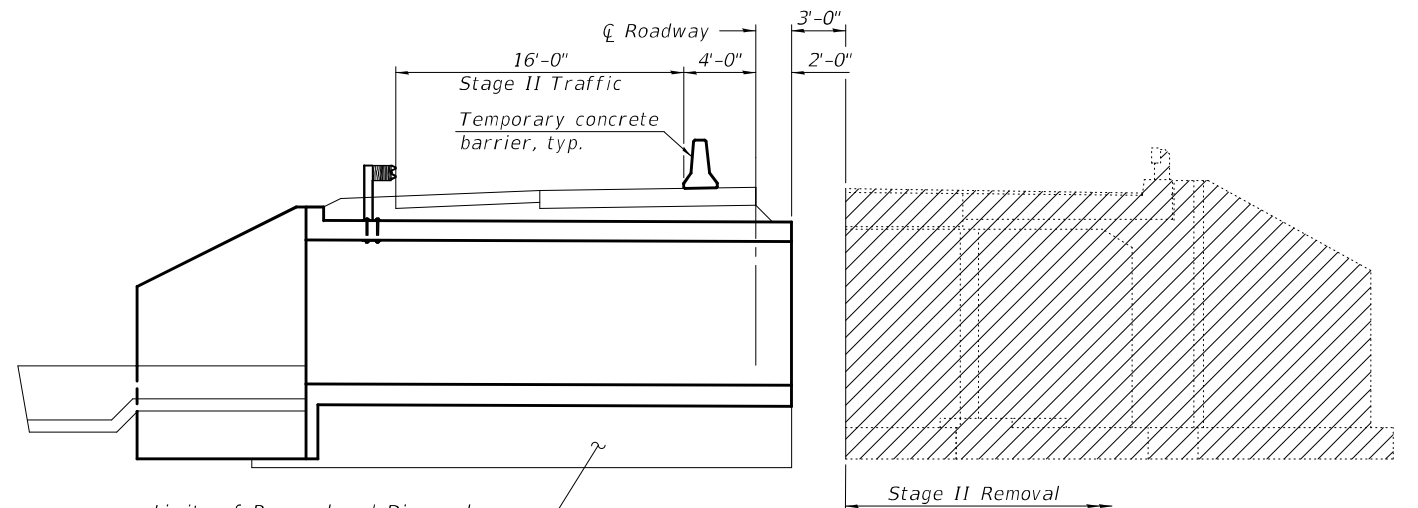
SHEET 1 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	13
CONTRACT NO. 74858				
ILLINOIS FED. RD PROJECT				

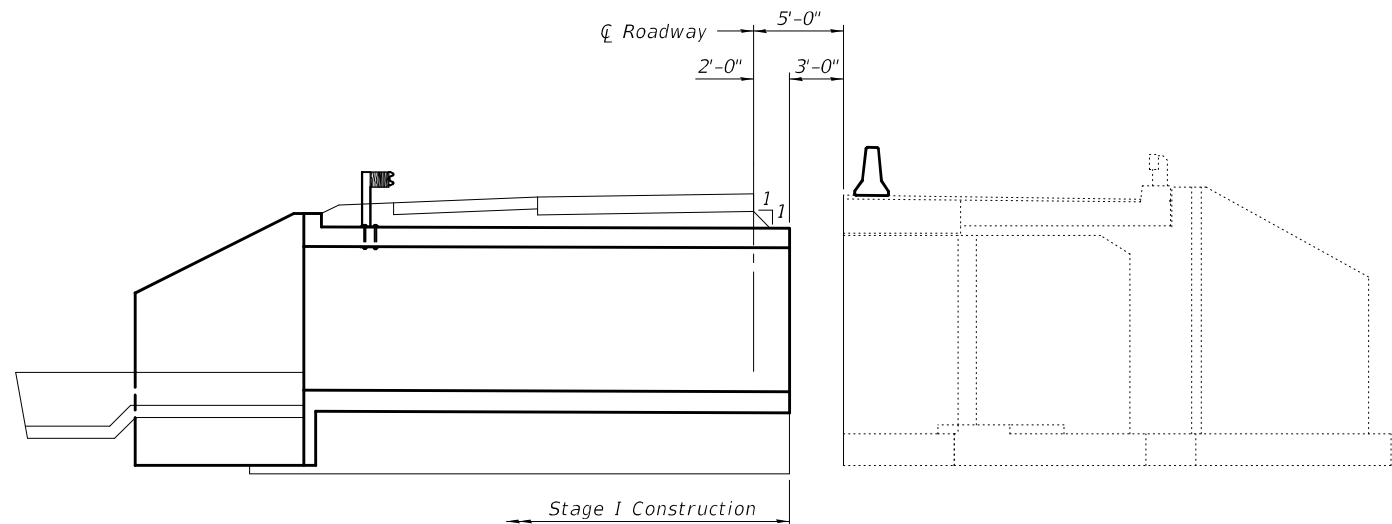
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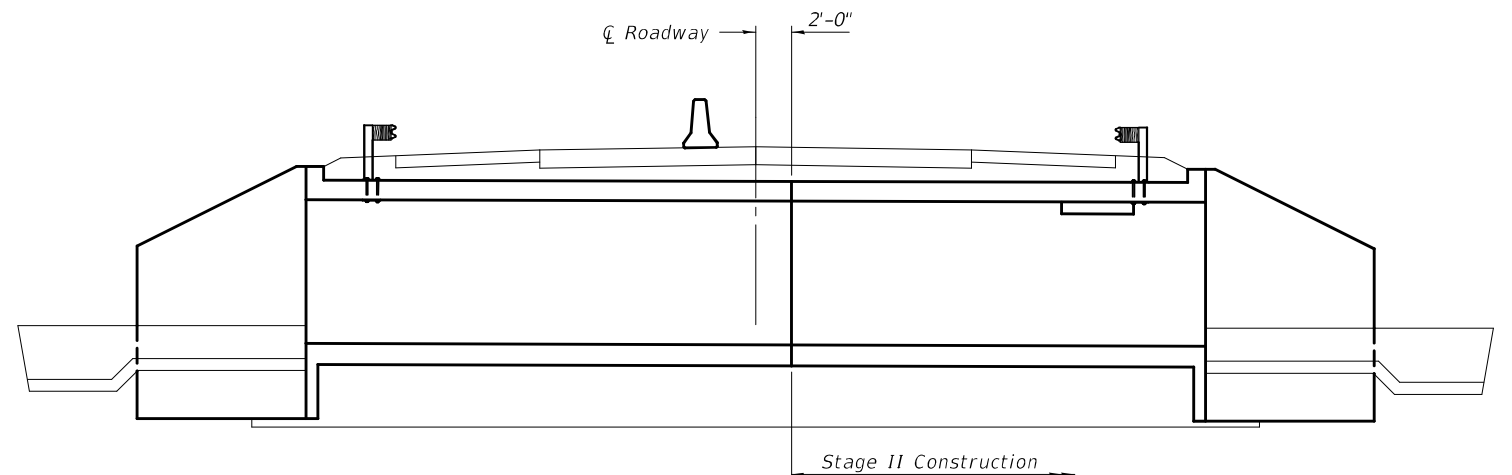
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

Notes:
 Hatched areas indicate Removal of Existing Structures.
 For quantity of Temporary Concrete Barrier, see Roadway Plans.
 All cross sections are looking North.
 For details of Temporary Concrete Barrier see sheet 5 of 11.

DESIGNED - RYAN P. NEGANGARD
 CHECKED - JOSHUA S. FLAIG
 DRAWN - DENNIS A. POP
 CHECKED - R.P.N. / J.S.F.

EXAMINED
 PASSED

Mark Shuffler
 ENGINEER OF BRIDGE DESIGN
Jaime F. Schaff
 ENGINEER OF BRIDGES AND STRUCTURES

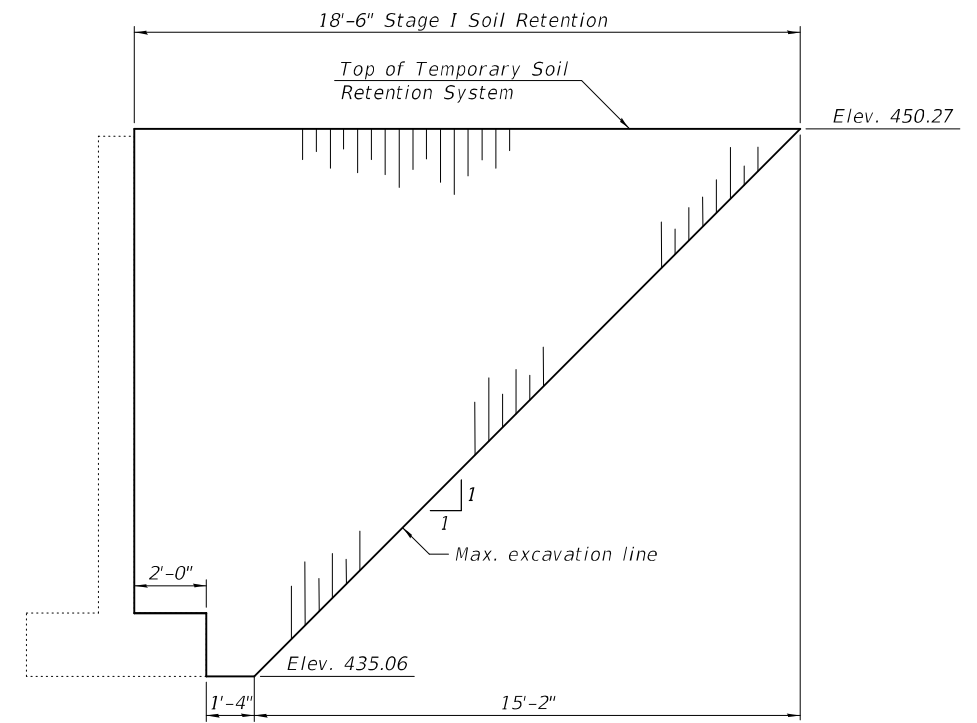
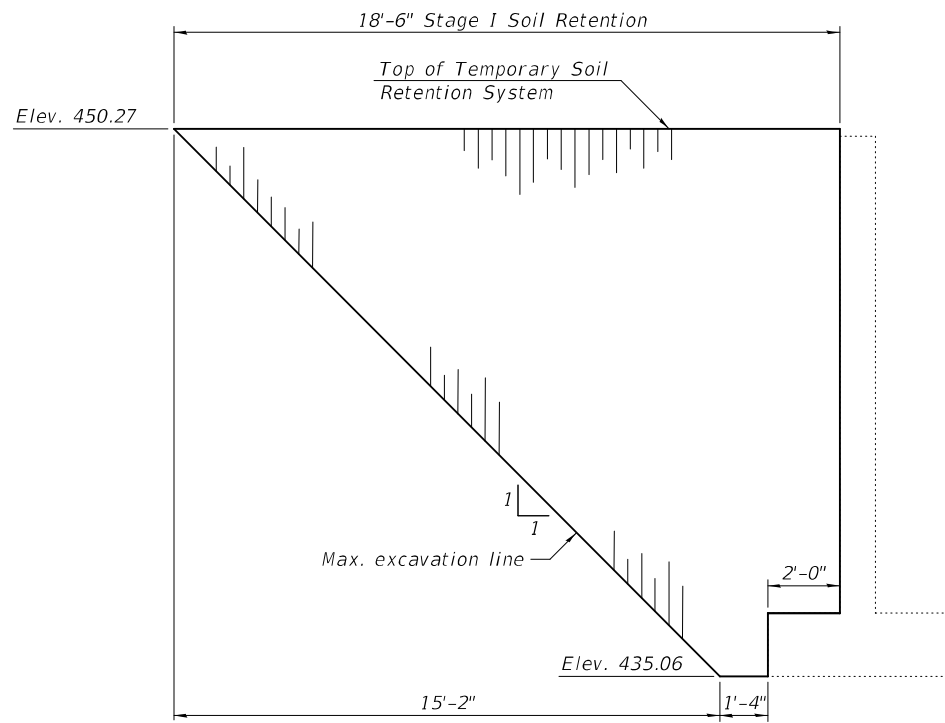
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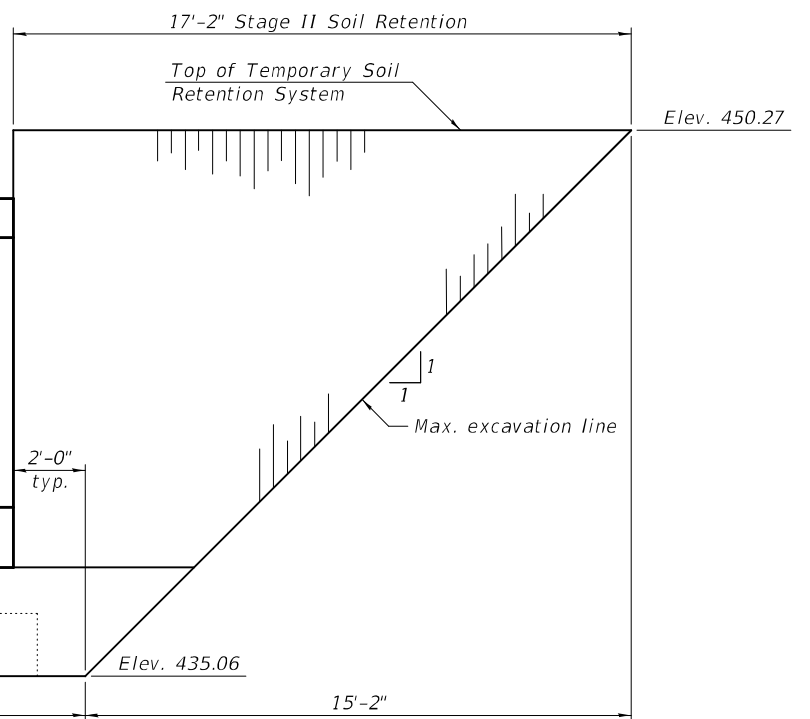
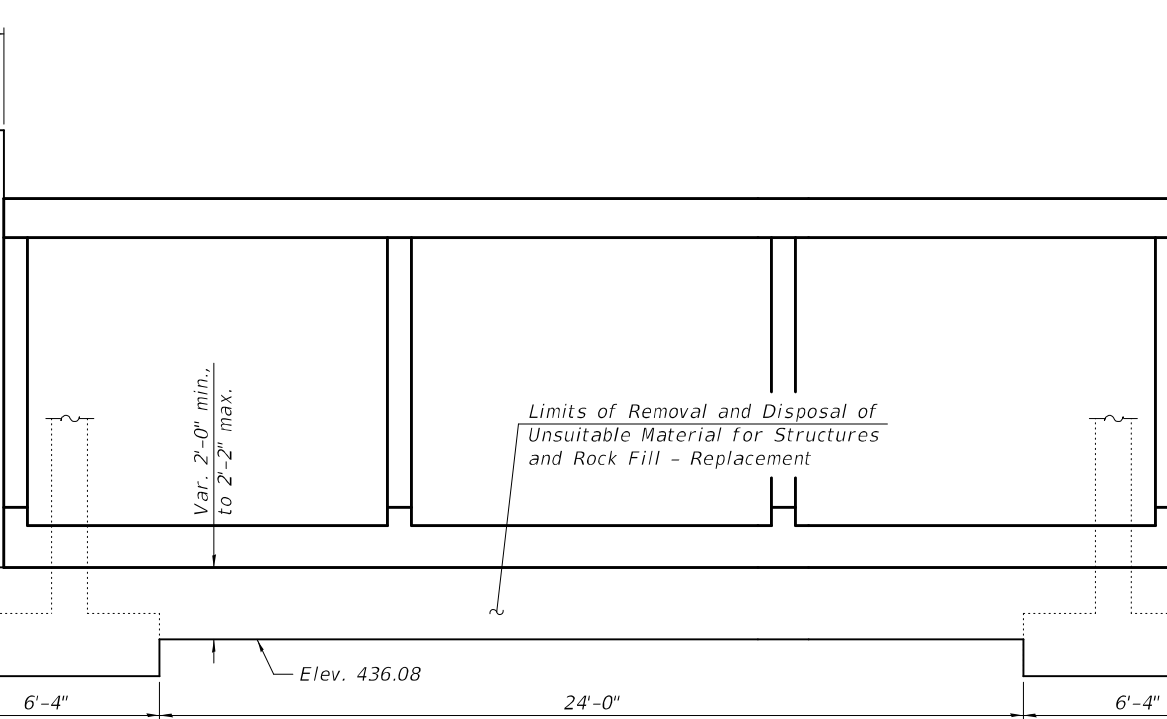
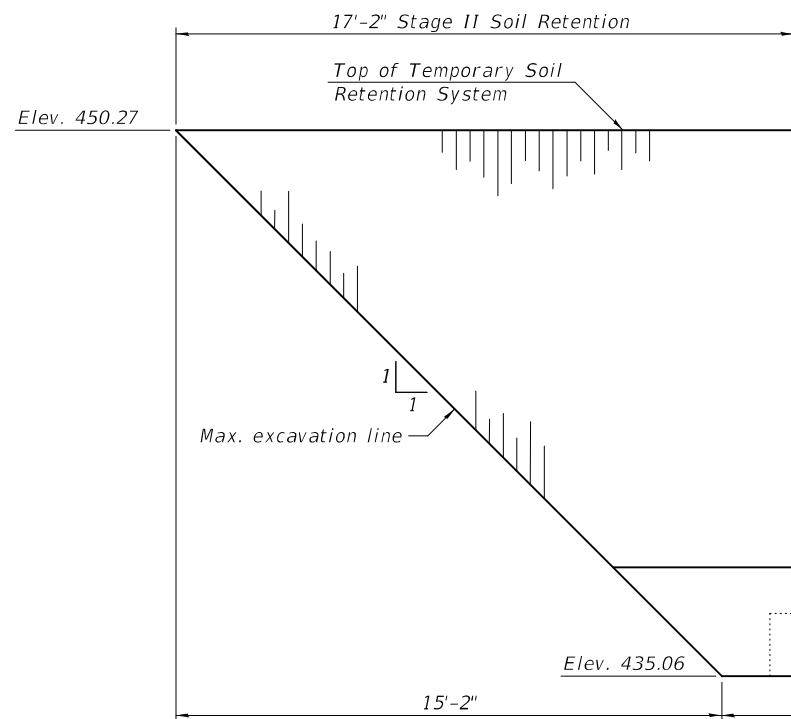
**STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 051-2011**

SHEET 3 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	15
CONTRACT NO. 74858				
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STAGE I TEMPORARY SOIL RETENTION SYSTEM
(Looking East)




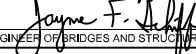
STAGE II TEMPORARY SOIL RETENTION SYSTEM
(Looking East)

Notes:
 A cantilevered sheet piling design does not appear to be feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer. The existing abutment and wingwall footings shall be completely removed within 3'-0" of the proposed culvert and wingwalls. Cost included with Removal of Existing Structures. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

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DESIGNED - RYAN P. NEGANGARD	EXAMINED
CHECKED - JOSHUA S. FLAIG	PASSED
DRAWN - DENNIS A. POP	
CHECKED - R.P.N. / J.S.F.	

DATE - August 21, 2024


 ENGINEER OF BRIDGE DESIGN

 ENGINEER OF BRIDGES AND STRUCTURES

REVISD -
REVISD -

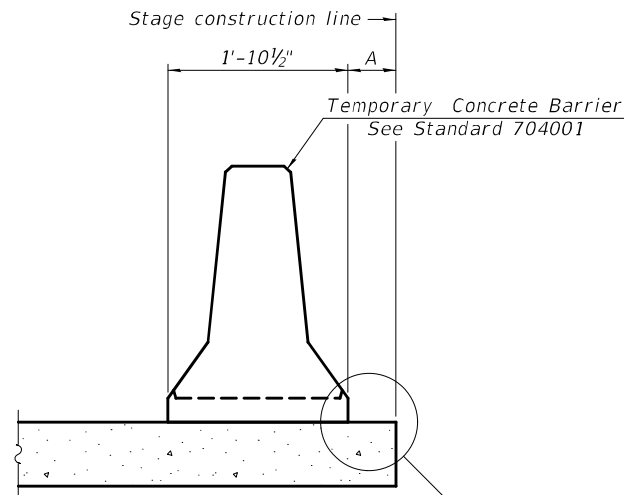
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NO. 051-2011

SHEET 4 OF 11 SHEETS

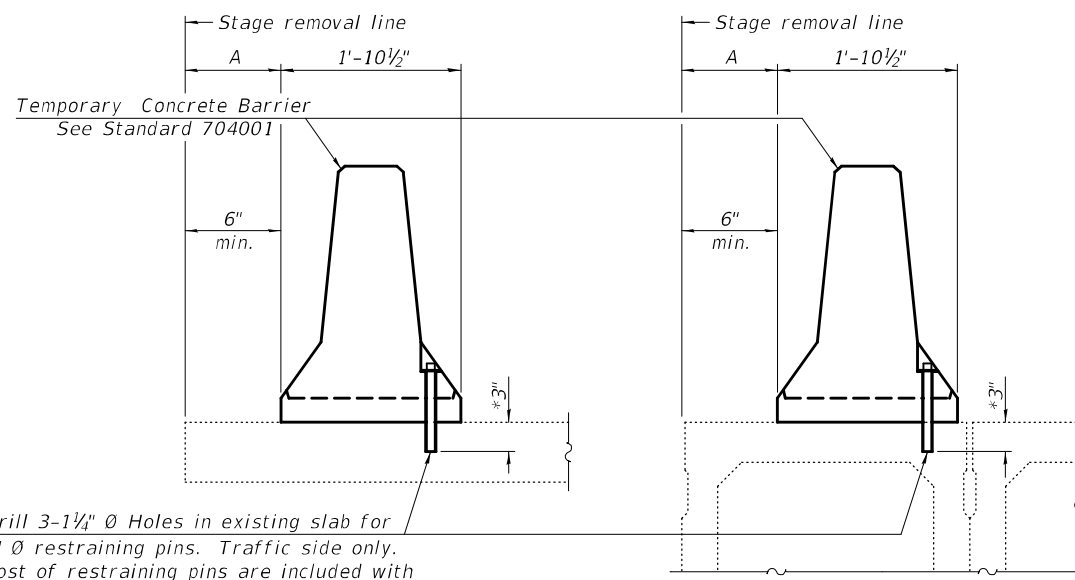
F.A.P. RTE. 332	SECTION 18B-1	COUNTY LAWRENCE	TOTAL SHEETS 29	SHEET NO. 16
CONTRACT NO. 74858				
ILLINOIS FED. RD PROJECT				

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

NEW SLAB OR NEW DECK BEAM

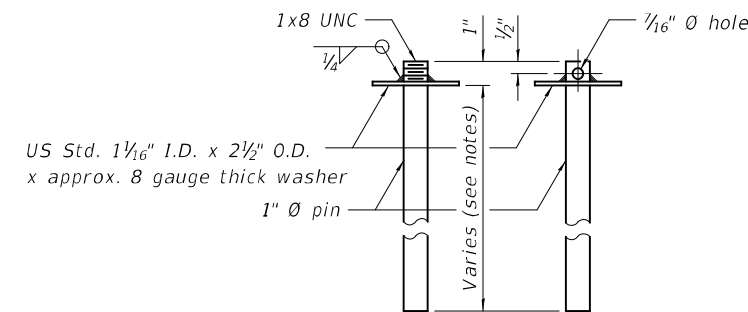


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

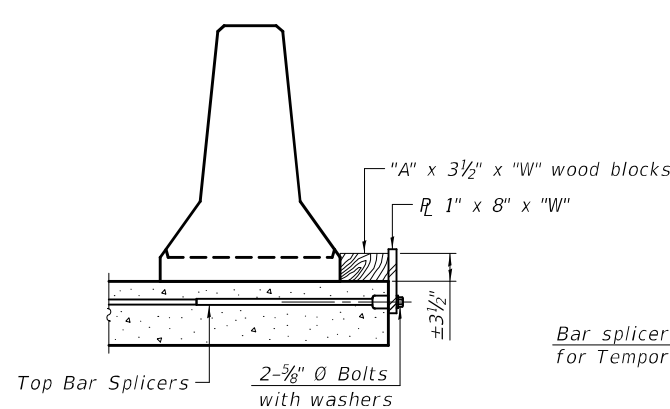
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

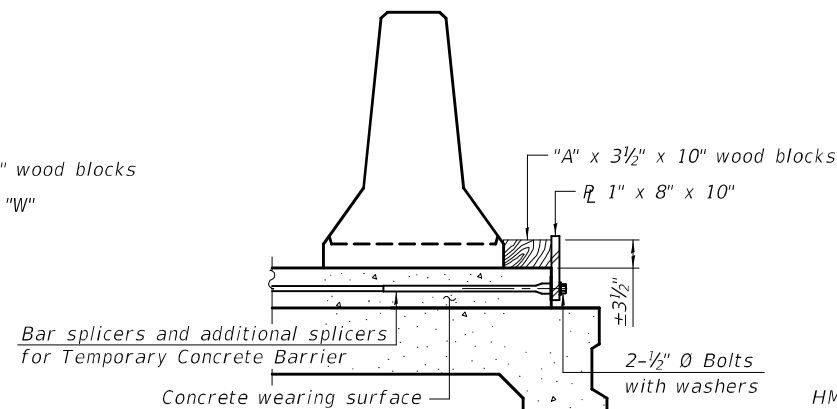


RESTRAINING PIN

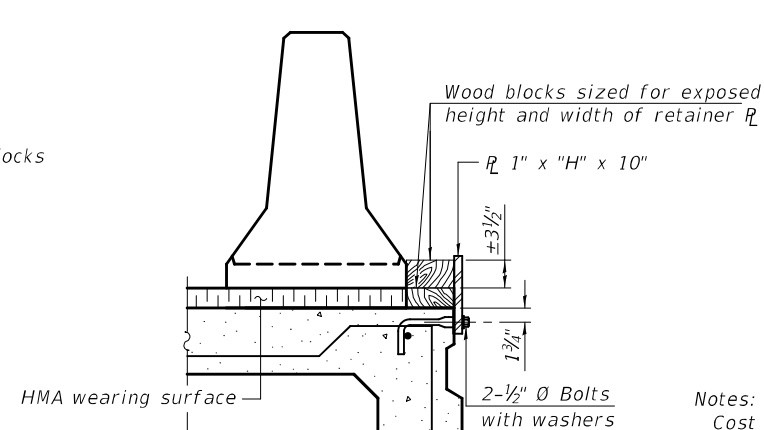
SECTIONS THRU SLAB OR DECK BEAM



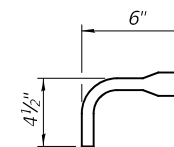
DETAIL I



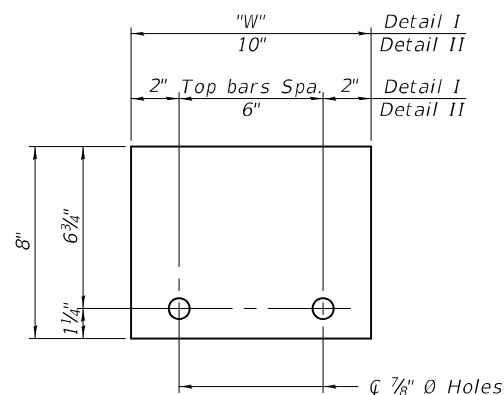
DETAIL II



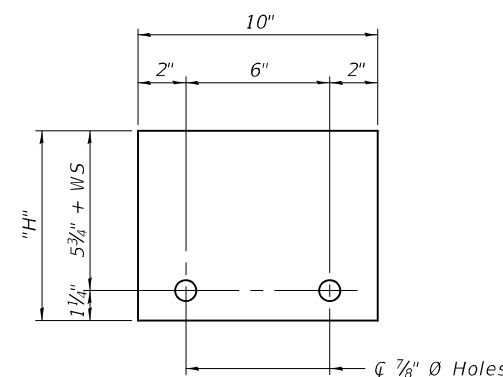
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6' to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6' apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

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DESIGNED - RYAN P. NEGANGARD	EXAMINED
CHECKED - JOSHUA S. FLAIG	PASSED
DRAWN - DENNIS A. POP	
CHECKED - R.P.N. / J.S.F.	

DATE - August 21, 2024
 Mark Shuffler
 ENGINEER OF BRIDGE DESIGN
 Jayne F. Hoff
 ENGINEER OF BRIDGES AND STRUCTURES

REVISD -
REVISD -

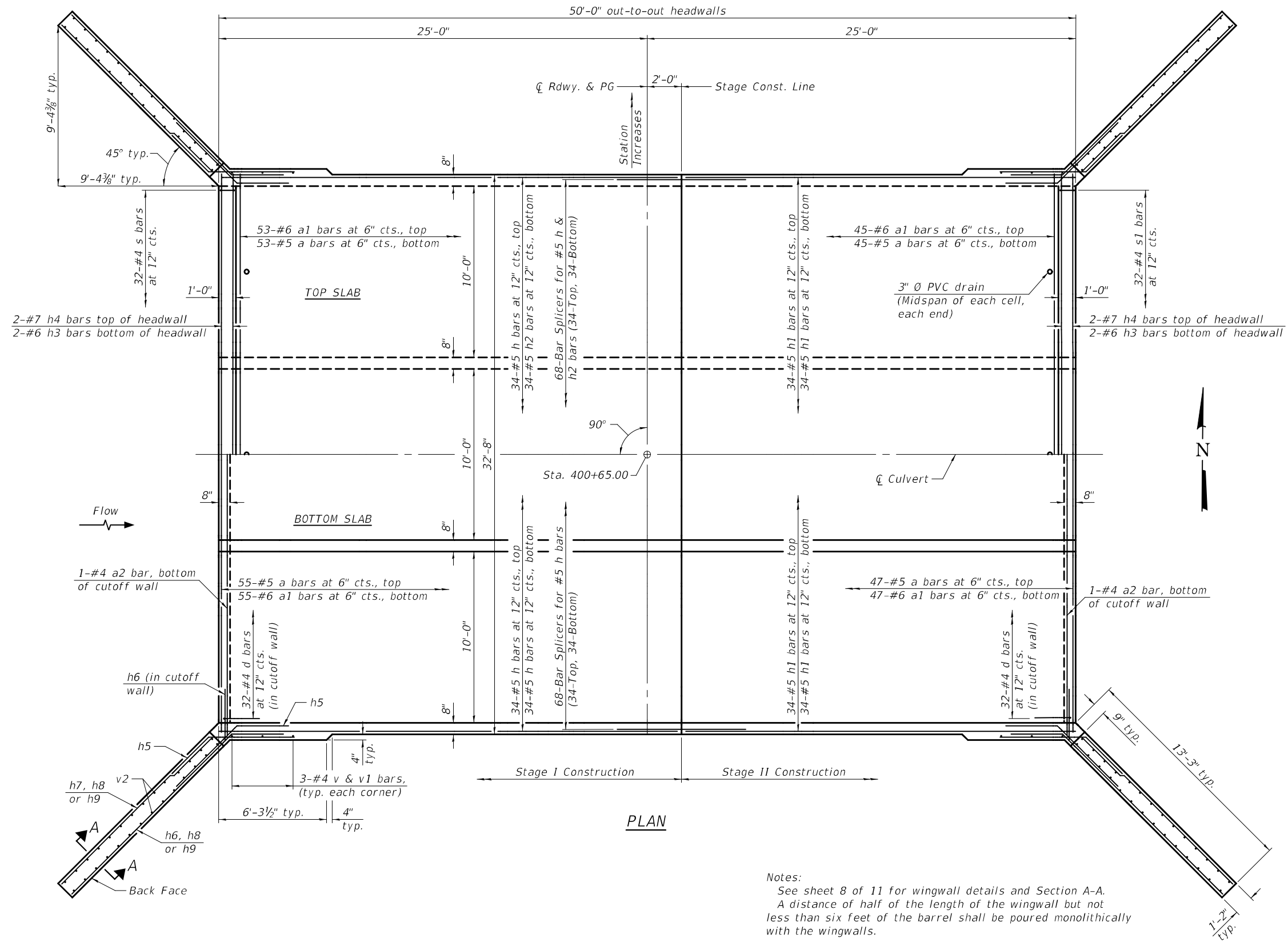
STATE OF ILLINOIS
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TEMPORARY CONCRETE BARRIER
 STRUCTURE NO. 051-2011

SHEET 5 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	17
CONTRACT NO. 74858				
ILLINOIS FED. RD PROJECT				

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PLAN

Notes:
 See sheet 8 of 11 for wingwall details and Section A-A.
 A distance of half of the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

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CHECKED - JOSHUA S. FLAIG	PASSED
DRAWN - DENNIS A. POP	
CHECKED - R.P.N. / J.S.F.	

Mark Shuffler
 ENGINEER OF BRIDGE DESIGN
 Jayne F. [Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

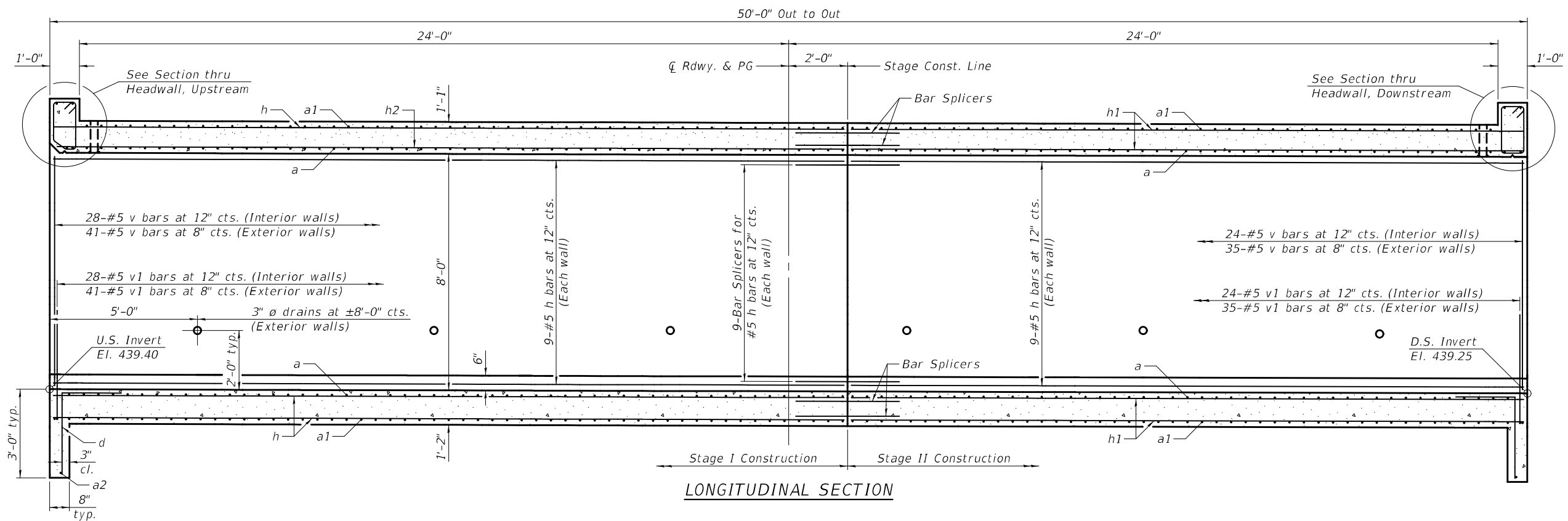
DATE - August 21, 2024
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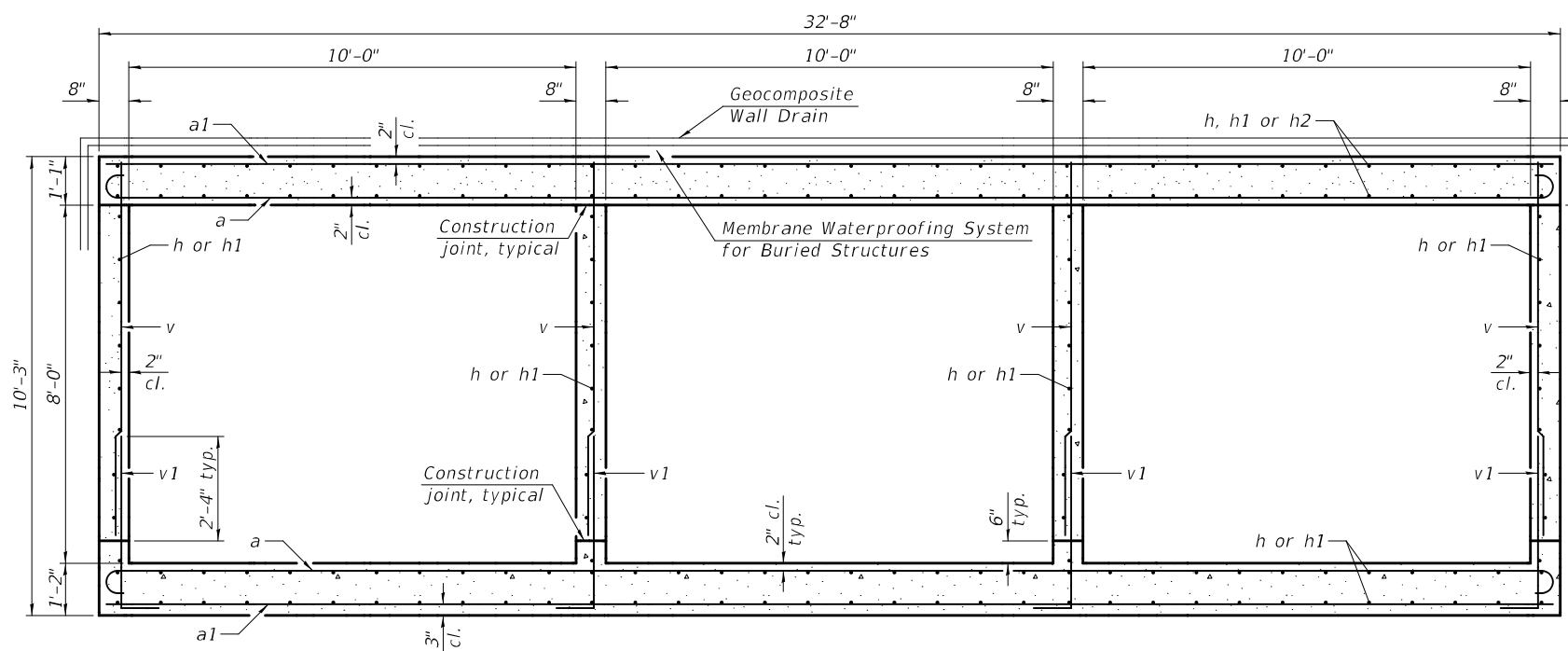
TOP AND BOTTOM SLAB
 STRUCTURE NO. 051-2011

SHEET 6 OF 11 SHEETS

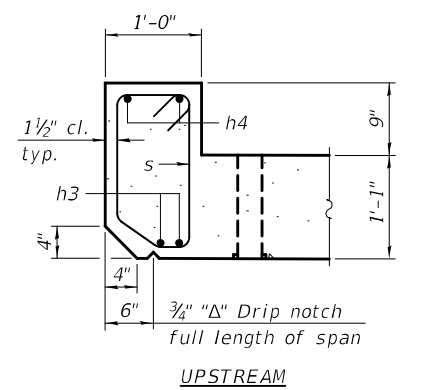
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CONTRACT NO. 74858				
ILLINOIS FED. RD PROJECT				



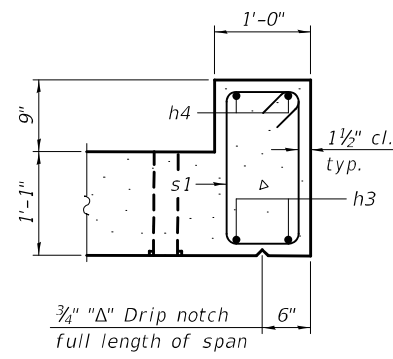
LONGITUDINAL SECTION



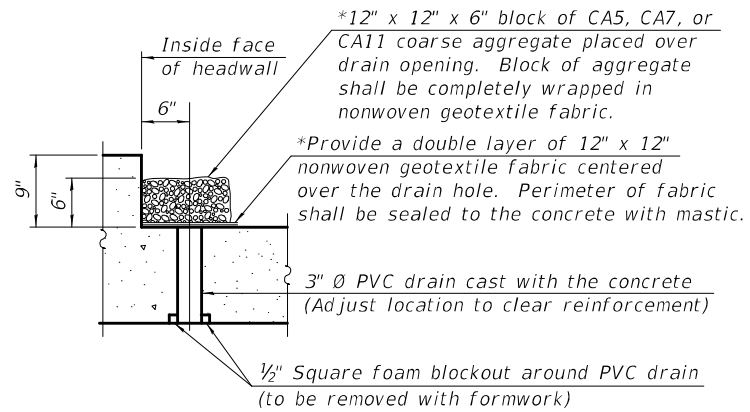
SECTION THRU BARREL



UPSTREAM



SECTION THRU HEADWALL



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

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DESIGNED - RYAN P. NEGANGARD	EXAMINED - <i>Mark Shuffler</i>
CHECKED - JOSHUA S. FLAIG	ENGINEER OF BRIDGE DESIGN
DRAWN - DENNIS A. POP	PASSED - <i>Joey F. [Signature]</i>
CHECKED - R.P.N. / J.S.F.	ENGINEER OF BRIDGES AND STRUCTURES

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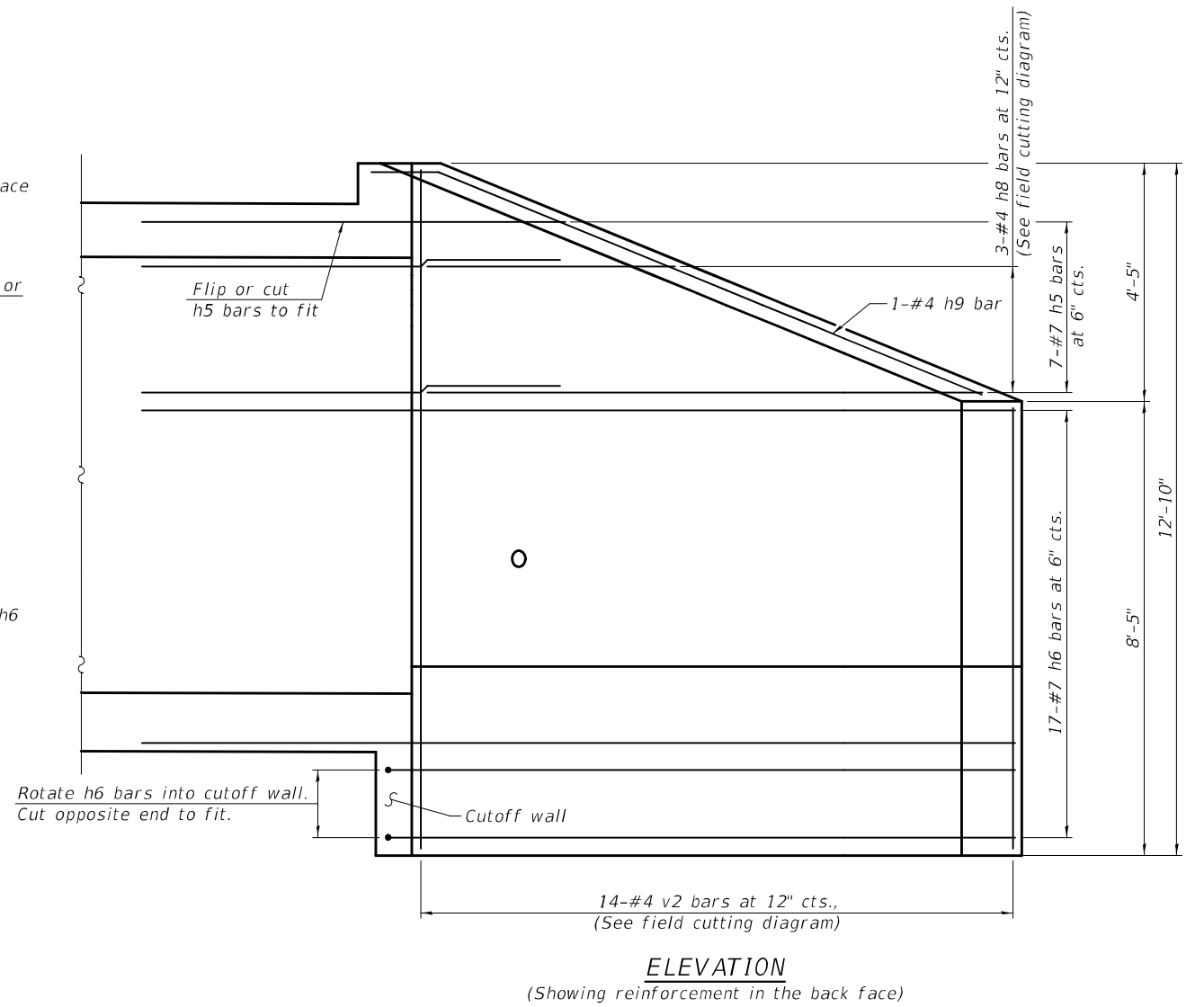
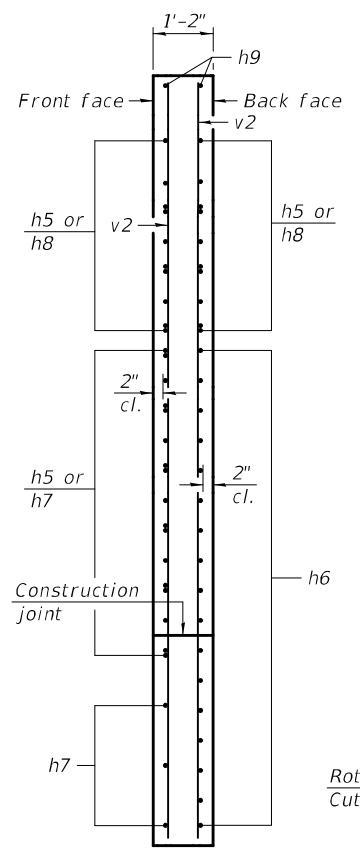
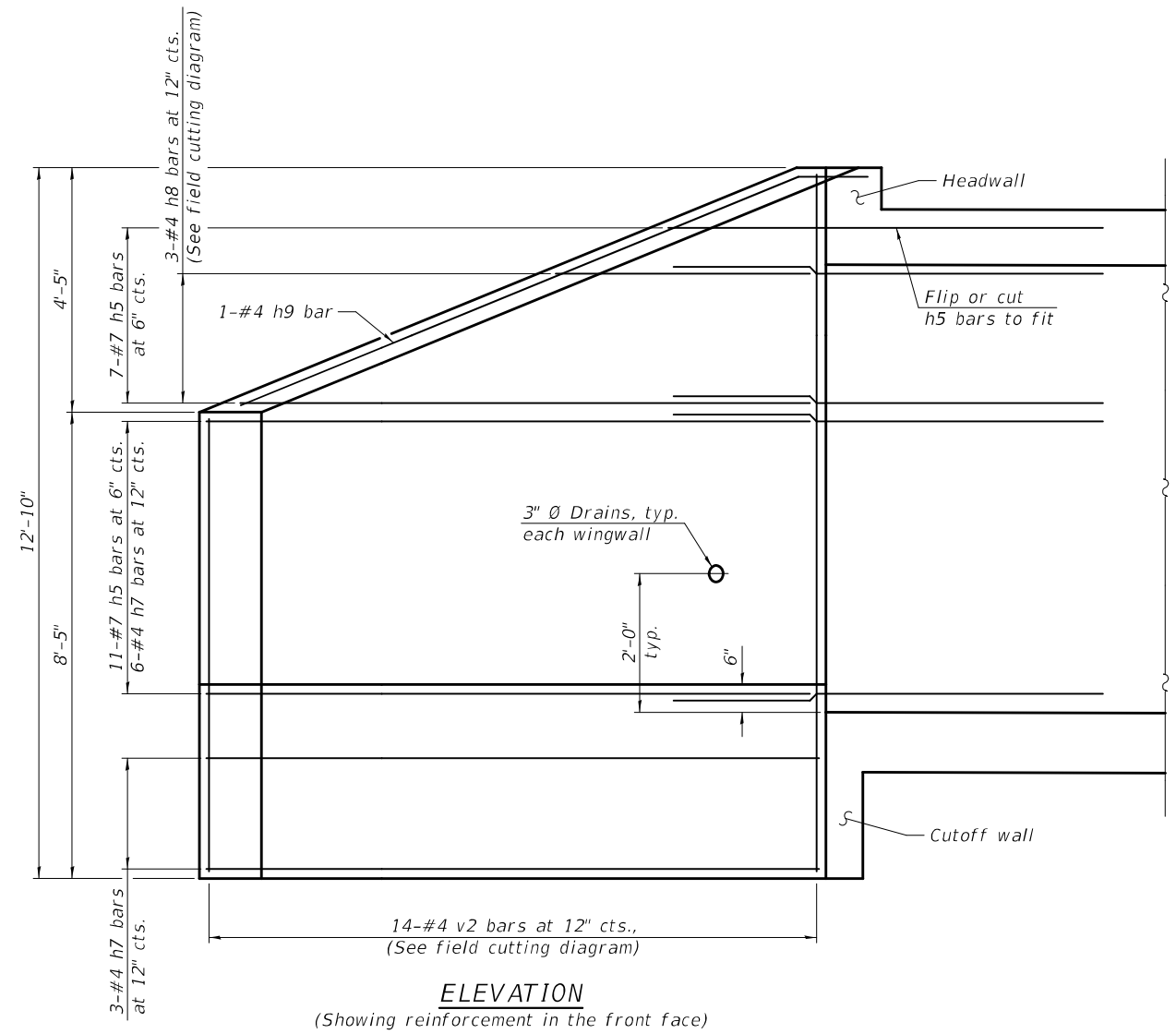
CULVERT SECTIONS
STRUCTURE NO. 051-2011

SHEET 7 OF 11 SHEETS

F.A.P. RTE. 332	SECTION 18B-1	COUNTY LAWRENCE	TOTAL SHEETS 29	SHEET NO. 19
CONTRACT NO. 74858				
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS
 STRUCTURE NO. 051-2011

SHEET 8 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	20
CONTRACT NO. 74858				
ILLINOIS FED. RD PROJECT				

ELEVATION
 (Showing reinforcement in the front face)

SECTION A-A

ELEVATION
 (Showing reinforcement in the back face)

DESIGNED - RYAN P. NEGANGARD	EXAMINED
CHECKED - JOSHUA S. FLAIG	PASSED
DRAWN - DENNIS A. POP	
CHECKED - R.P.N. / J.S.F.	

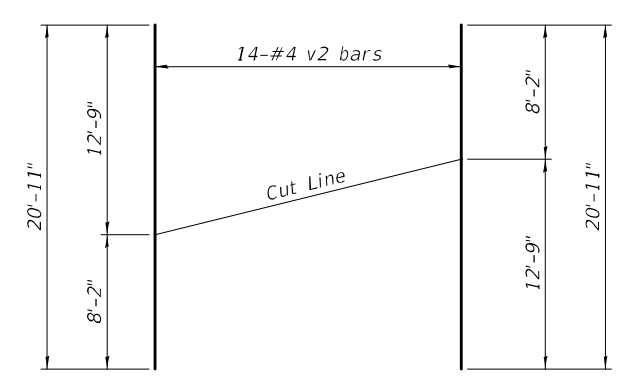
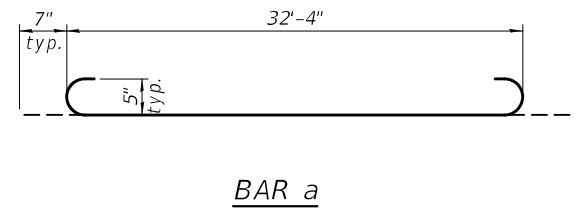
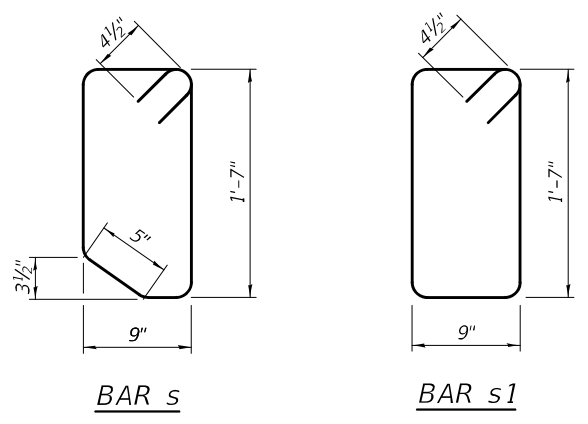
Mark Shuffler
 ENGINEER OF BRIDGE DESIGN

Jaime F. [Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

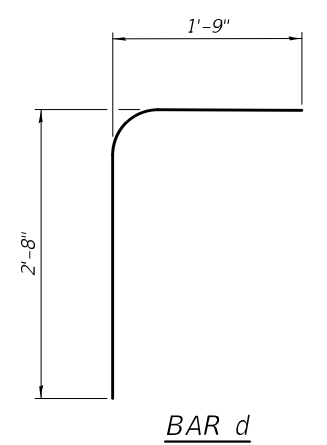
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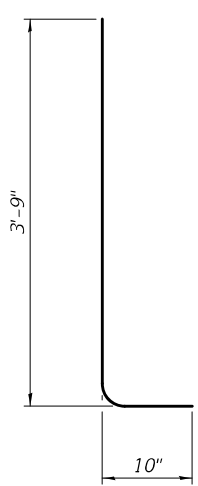
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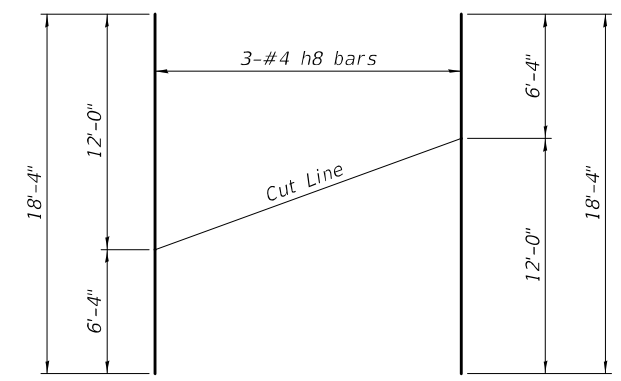
FIELD CUTTING DIAGRAM
 Order v2 bars full length. Cut as shown and use remainder of bars in opposite face of wingwall.



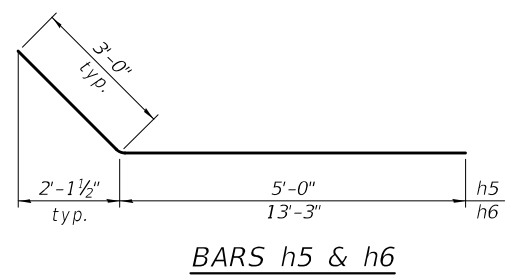
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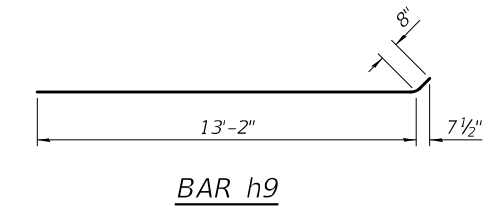
BAR v1



FIELD CUTTING DIAGRAM
 Order h8 bars full length. Cut as shown and use remainder of bars in opposite face.



BARS h5 & h6



BAR h9

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	200	#5	33'-6"	
a1	200	#6	32'-4"	
a2	2	#4	32'-4"	
d	64	#4	4'-5"	
h	138	#5	26'-8"	
h1	172	#5	22'-8"	
h2	34	#5	26'-6"	
h3	4	#6	32'-4"	
h4	4	#7	32'-4"	
h5	100	#7	8'-0"	
h6	68	#7	16'-3"	
h7	36	#4	13'-1"	
h8	12	#4	18'-4"	
h9	8	#4	13'-10"	
s	32	#4	5'-3"	
s1	32	#4	5'-5"	
v	268	#5	8'-3"	
v1	268	#5	4'-7"	
v2	56	#4	20'-11"	
Concrete Box Culverts			Cu. Yd.	206.1
Reinforcement Bars			Pound	35,260

Note:
 At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.

DESIGNED - RYAN P. NEGANGARD	EXAMINED
CHECKED - JOSHUA S. FLAIG	PASSED
DRAWN - DENNIS A. POP	
CHECKED - R.P.N. / J.S.F.	

DATE - August 21, 2024
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

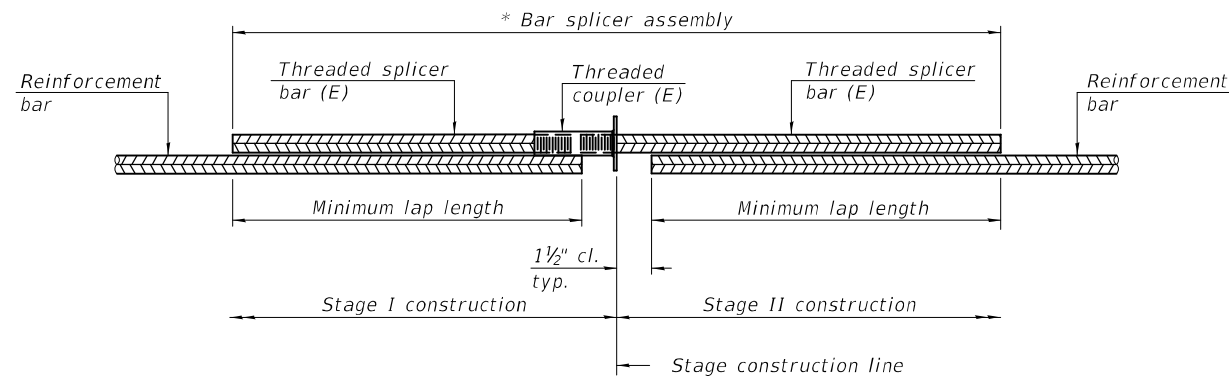
**STATE OF ILLINOIS
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**CULVERT DETAILS
 STRUCTURE NO. 051-2011**

SHEET 9 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	21
CONTRACT NO. 74858				
ILLINOIS FED. RD PROJECT				

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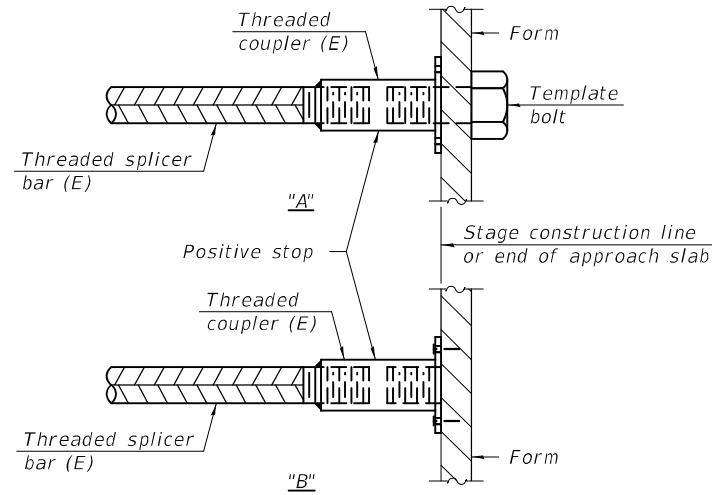
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + 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
Top slab	#5	68	2'-2"
Walls	#5	36	2'-9"
Bottom slab	#5	68	2'-2"

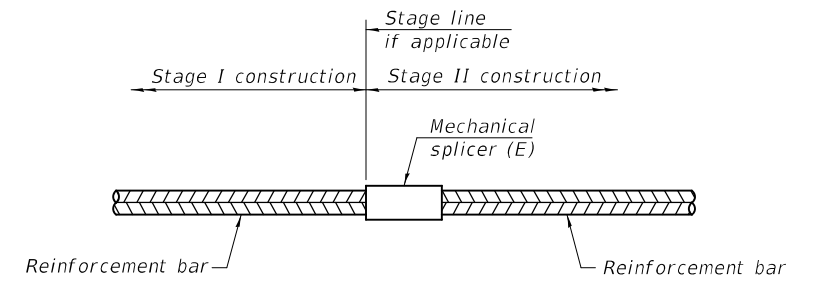


INSTALLATION AND SETTING METHODS

"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

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.

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BSD-1

2-1-2023

DESIGNED - RYAN P. NEGANGARD	EXAMINED
CHECKED - JOSHUA S. FLAIG	PASSED
DRAWN - DENNIS A. POP	
CHECKED - R.P.N. / J.S.F.	

DATE - August 21, 2024

Mark Shuffler
ENGINEER OF BRIDGE DESIGN

Jaime F. ...
ENGINEER OF BRIDGES AND STRUCTURES

REVISIONS	
REVISIONS	

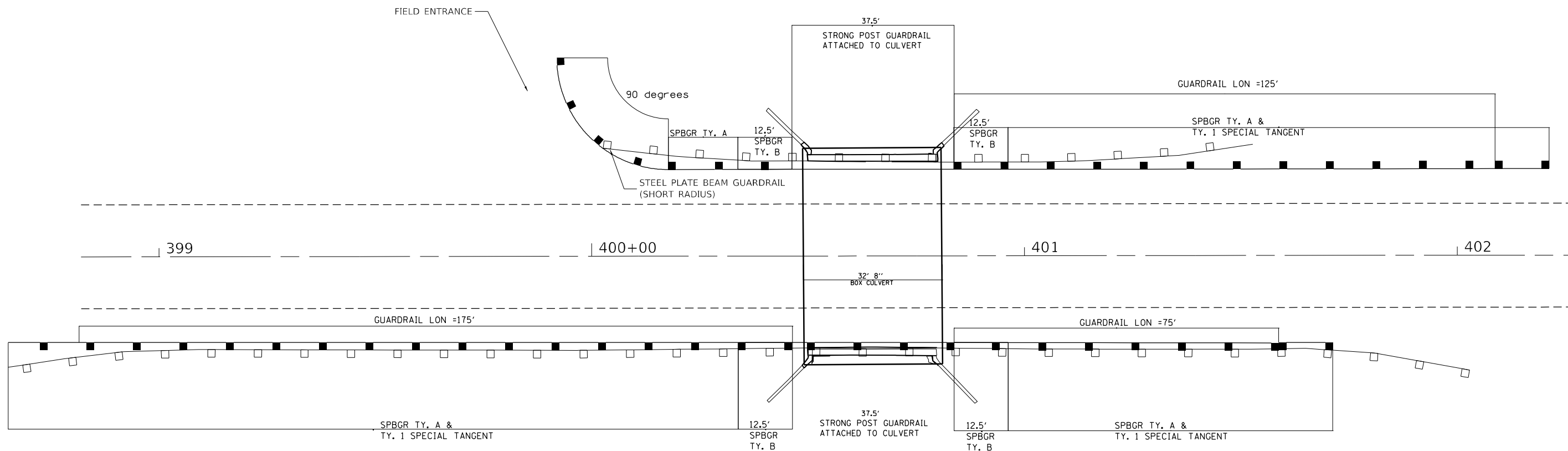
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 051-2011**

SHEET 10 OF 11 SHEETS

F.A.P. RTE. 332	SECTION 18B-1	COUNTY LAWRENCE	TOTAL SHEETS 29	SHEET NO. 22
CONTRACT NO. 74858				
ILLINOIS FED. RD PROJECT				

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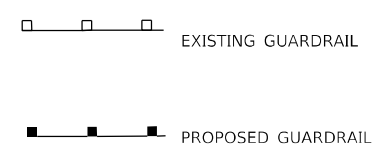
STATION	TO	STATION	LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	STRONG POST GUARDRAIL ATTACHED TO CULVERT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL)	TRAFFIC BARRIER TERMINAL, TYPE 2	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	OBJECT MARKER - TYPE 2
				63200310	63000001	X6330725	63000007	63000030	63100167	63100045	78200005	72501000	72500200
				FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH
400+02.00	TO	401+53.00	LT	151.0									
398+65.00	TO	402+03.00	RT	338.0									
			LT			25.0				1			1
400+21.25	TO	400+33.75	LT		12.5								
400+33.75	TO	400+46.25	LT				12.5						
400+46.25	TO	400+83.75	LT					37.5					
400+83.75	TO	400+96.25	LT				12.5						
400+96.25	TO	402+08.75	LT		112.5								
402+08.75	TO	402+21.25	LT						1		3	1	
398+58.75	TO	398+71.25	RT						1			1	
398+71.25	TO	400+33.75	RT		162.5								
400+33.75	TO	400+46.25	RT				12.5						
400+46.25	TO	400+83.75	RT					37.5					
400+83.75	TO	400+96.25	RT				12.5						
400+96.25	TO	401+58.75	RT		62.5								
401+58.75	TO	401+71.25	RT						1		4	1	
TOTALS =				489	350	25	50	75	3	1	7	3	1

NOTES

DRAWING NOT TO SCALE
 FACE OF RAIL 8' OFF EDGELINE

FOR STRONG POST GUARDRAIL ATTACHED TO CULVERT:
 ELEVATION OF TOP OF PROPOSED BOX AT FACE OF LEFT RAIL WILL BE 448.46 +/-
 ELEVATION OF TOP OF PROPOSED BOX AT FACE OF RIGHT RAIL WILL BE 448.34 +/-
 LEFT AND RIGHT CENTER OF RAIL ELEVATIONS WILL BE 451.90

SYMBOLS



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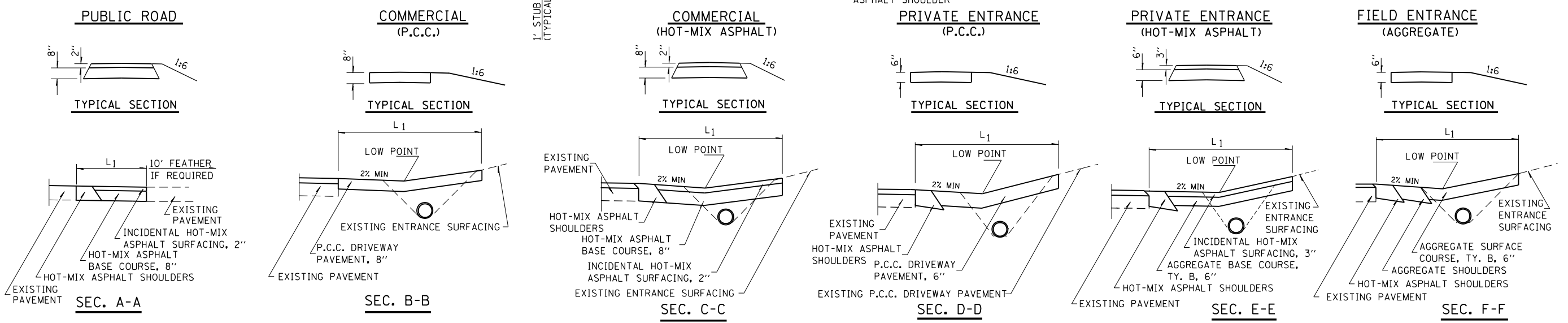
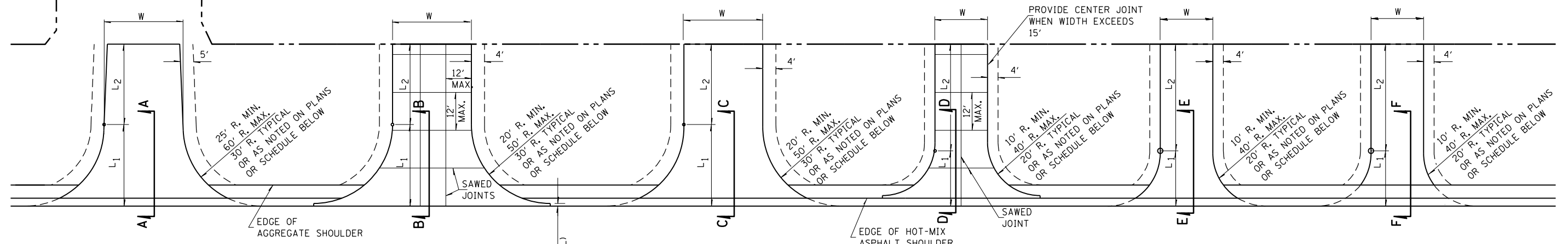
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GUARDRAIL DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	24
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				



ENTRANCE SCHEDULE

TYPE	SIDE/ STATION	WIDTH	LENGTH		RADIUS	AGGREGATE BASE, COURSE, TY. B, 6"	HOT-MIX ASPHALT BASE COURSE, 8"	AGGREGATE SURFACE COURSE, TYPE B	INCIDENTAL HOT-MIX ASPHALT SURFACING	P.C.C. DRIVEWAY PAVEMENT		PCC PAVEMENT 8"
			L ₁	L ₂						6"	8"	
FE	LT 402+60	24'	20'	32.7'	20'			42				

NOTES

L₁ = DISTANCE FROM EDGE OF PAVEMENT TO RADIUS POINT OR MAXIMUM DISTANCE OF 30'.
 L₂ = DISTANCE FROM RADIUS POINT OR MAXIMUM DISTANCE OF 30' FROM EDGE OF PAVEMENT TO R.O.W. LINE
 MATERIAL USED TO CONSTRUCT L₂ LENGTH SHALL BE THE SAME TYPE OF MATERIAL AS THE EXISTING ENTRANCE

THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDERS THROUGH COMMERCIAL ENTRANCES (HOT-MIX ASPHALT) AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE HOT-MIX ASPHALT SHOULDERS PAY ITEM.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS

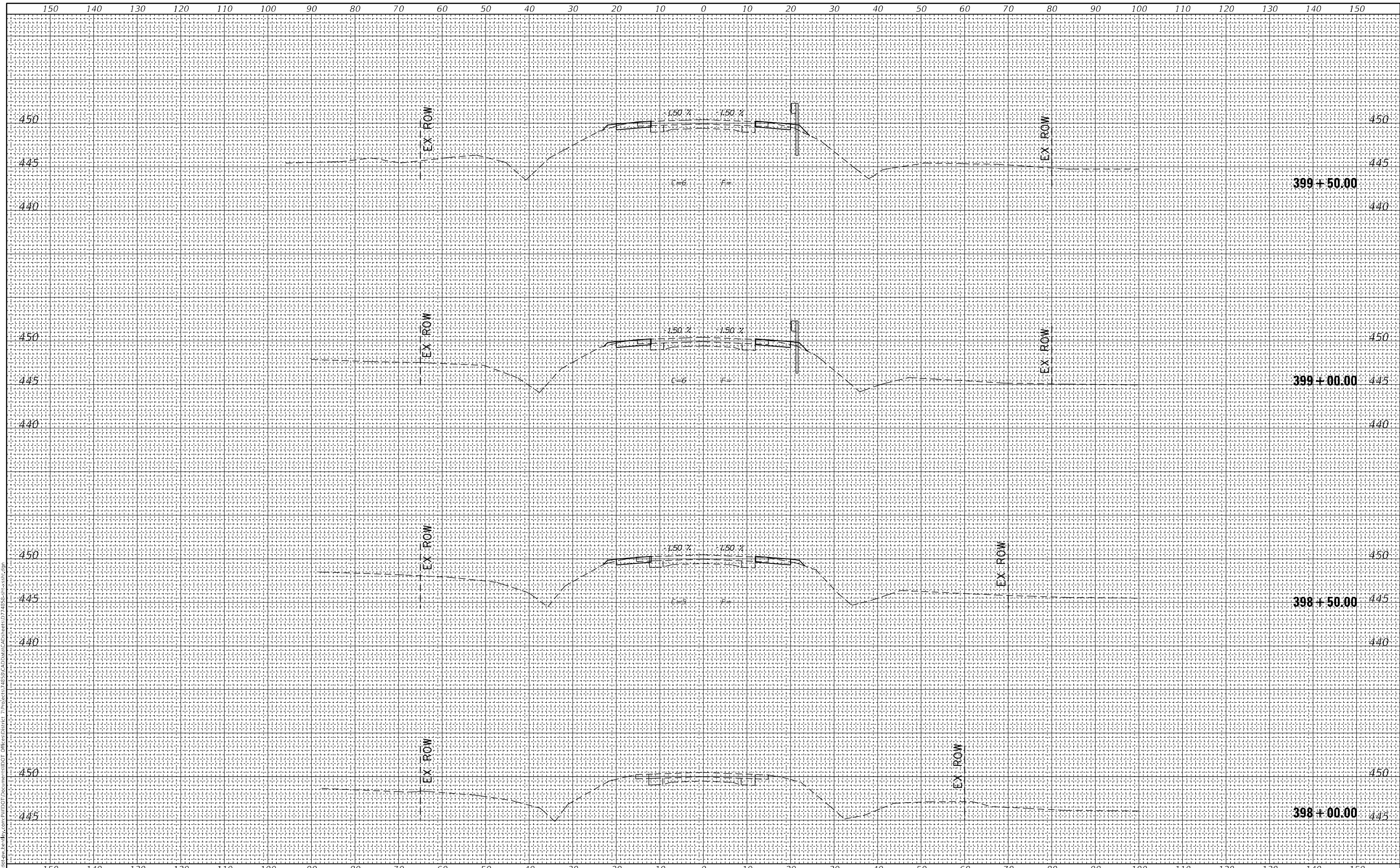
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	25
			CONTRACT NO. 74858	
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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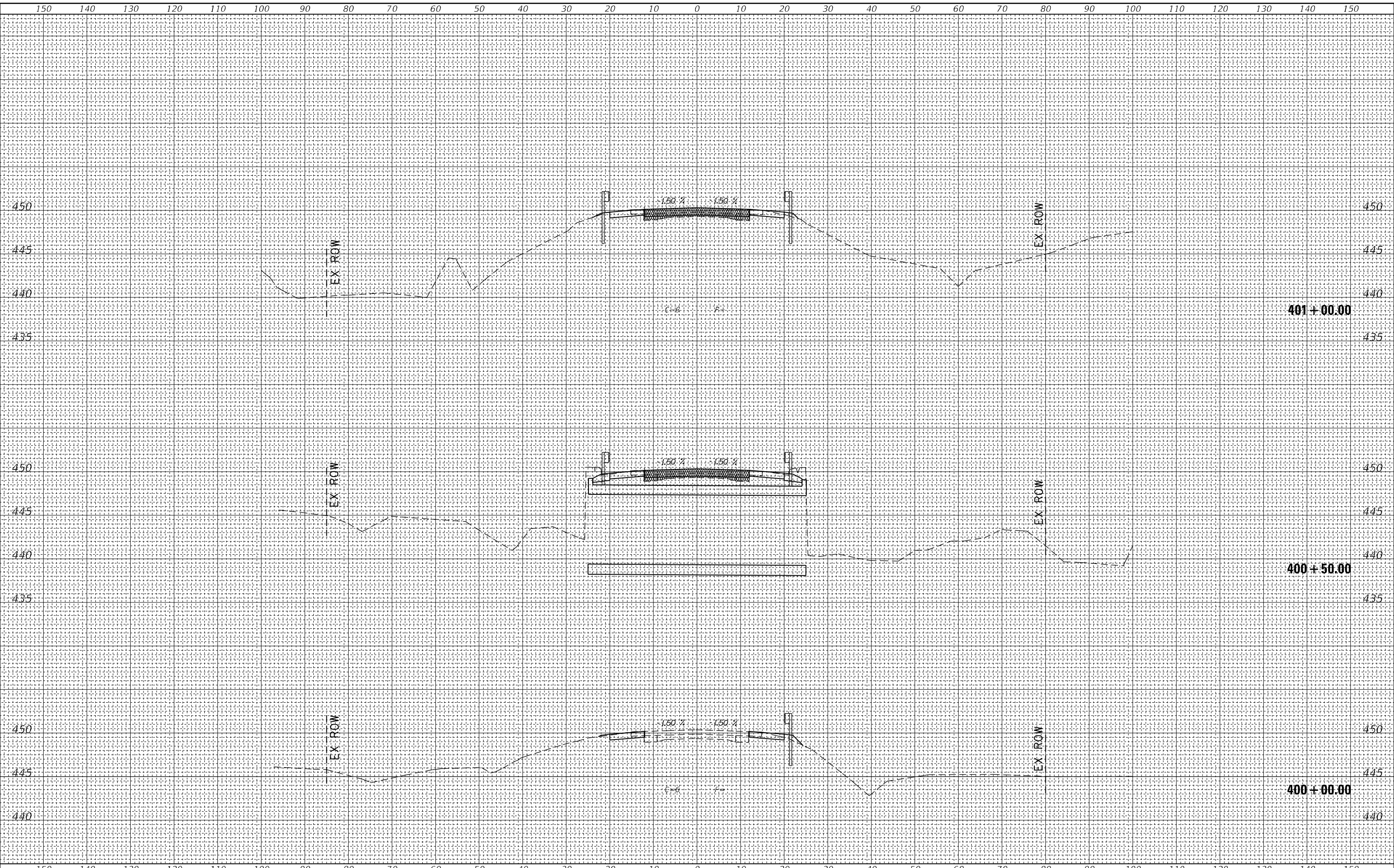
CROSS SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	26
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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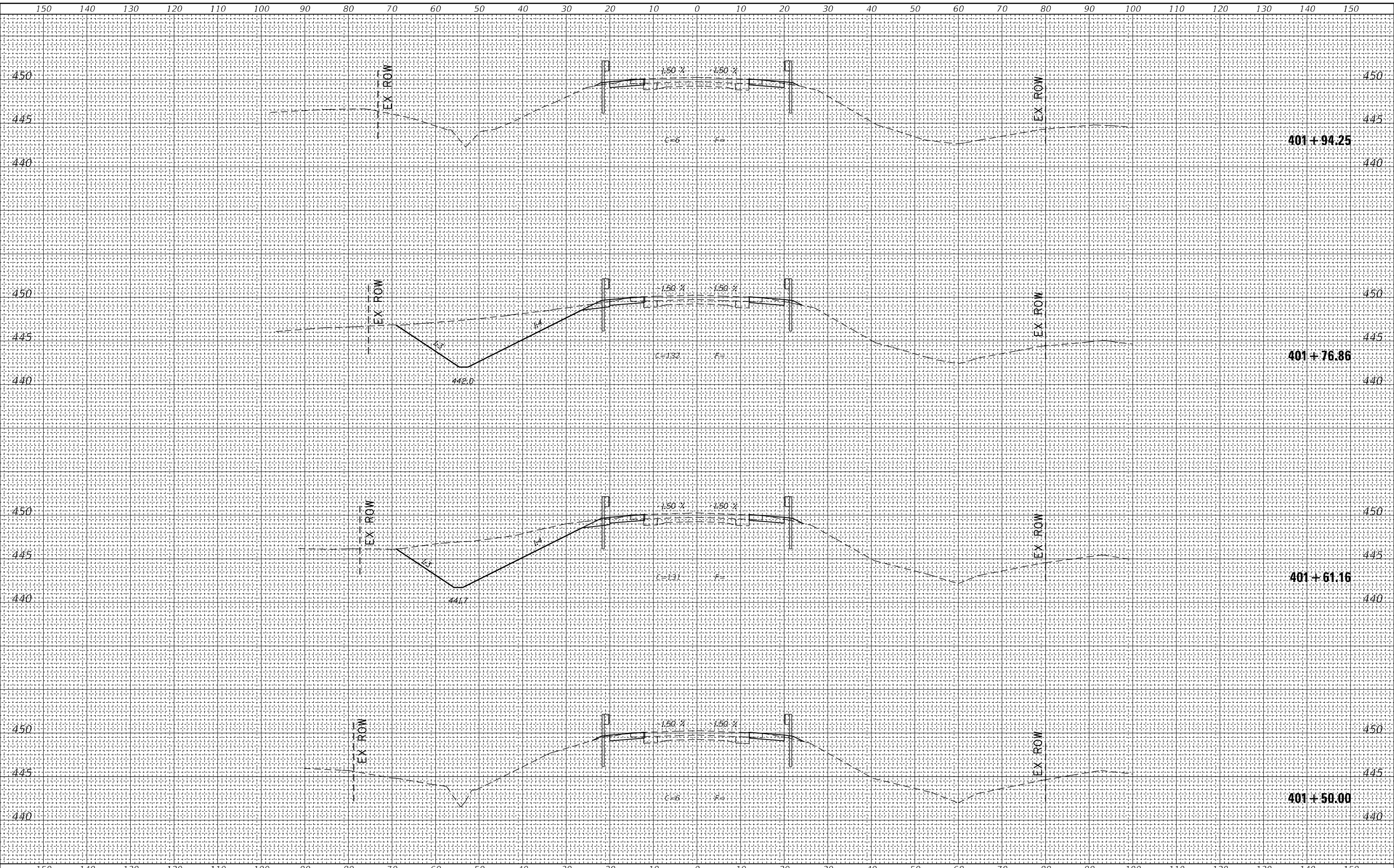
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F.A.P. RTE. 332	SECTION 18B-1	COUNTY LAWRENCE	TOTAL SHEETS 29	SHEET NO. 27
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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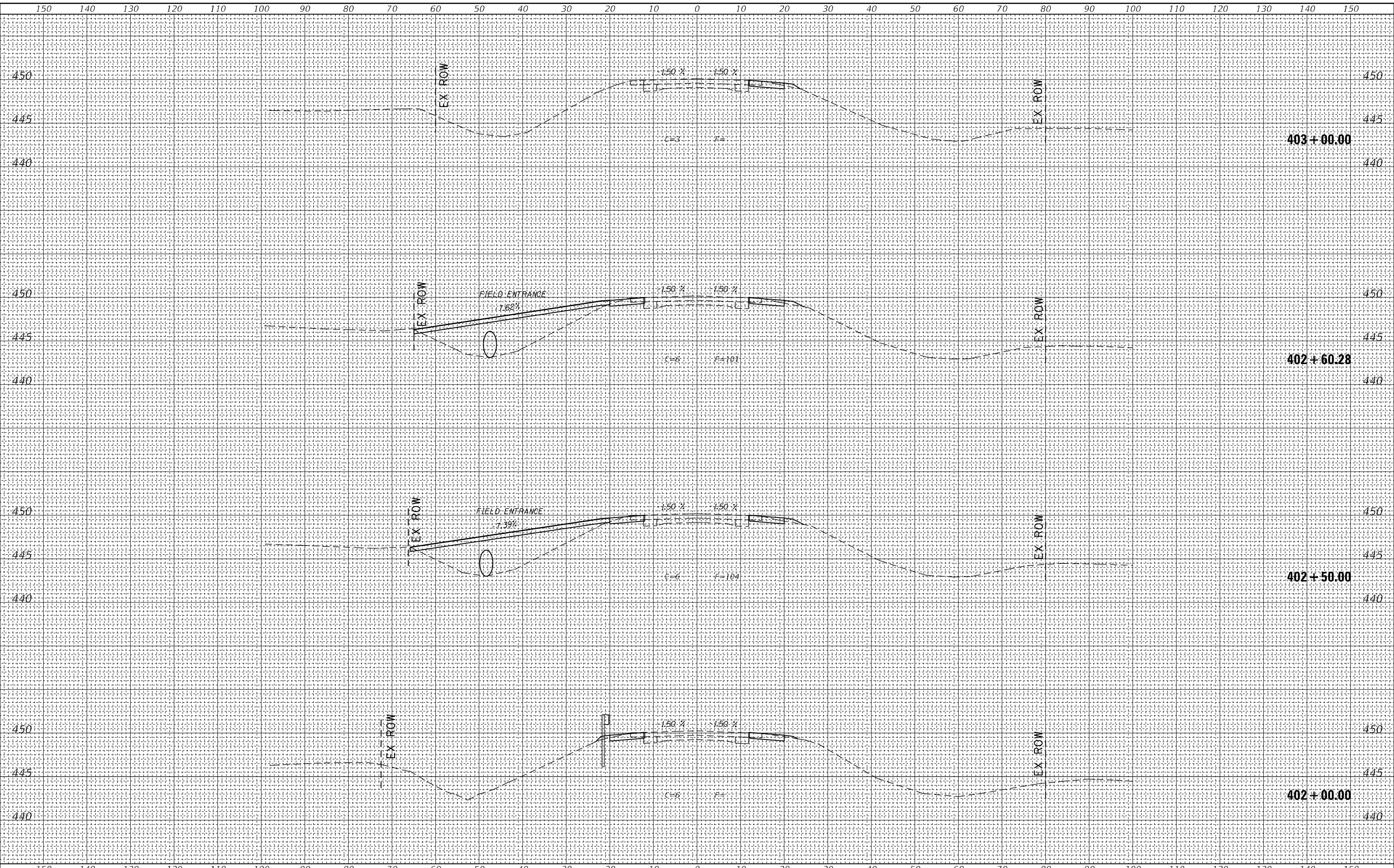
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F.A.P. RTE. 332	SECTION 18B-1	COUNTY LAWRENCE	TOTAL SHEETS 29	SHEET NO. 28
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				

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DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

CROSS SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	18B-1	LAWRENCE	29	29
CONTRACT NO. 74858				
ILLINOIS FED. AID PROJECT				