

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	(111)CLV-2	LASALLE	18	1
		ILLINOIS	CONTRACT NO. 66N37	

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES
- 3-5. SUMMARY OF QUANTITIES
6. TYPICAL SECTIONS
7. SCHEDULES
- 8-9. TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
- 10-15. STRUCTURE PLANS FOR STRUCTURE NO. 050-2540
16. CLASS B PATCHING DETAILS
17. PAVEMENT MARKING
18. TEMPORARY INFORMATION SIGNING

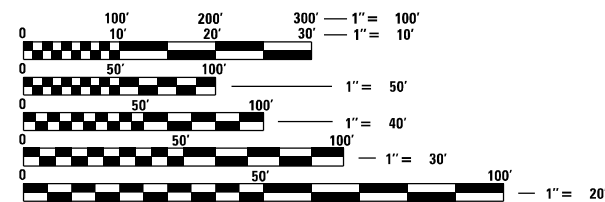
**PROPOSED
HIGHWAY PLANS**

**F.A.P. ROUTE 786 (IL 170)
SECTION (111)CLV-2
BOX CULVERT REPAIRS
LASALLE COUNTY**

C-93-070-23

HIGHWAY STANDARDS

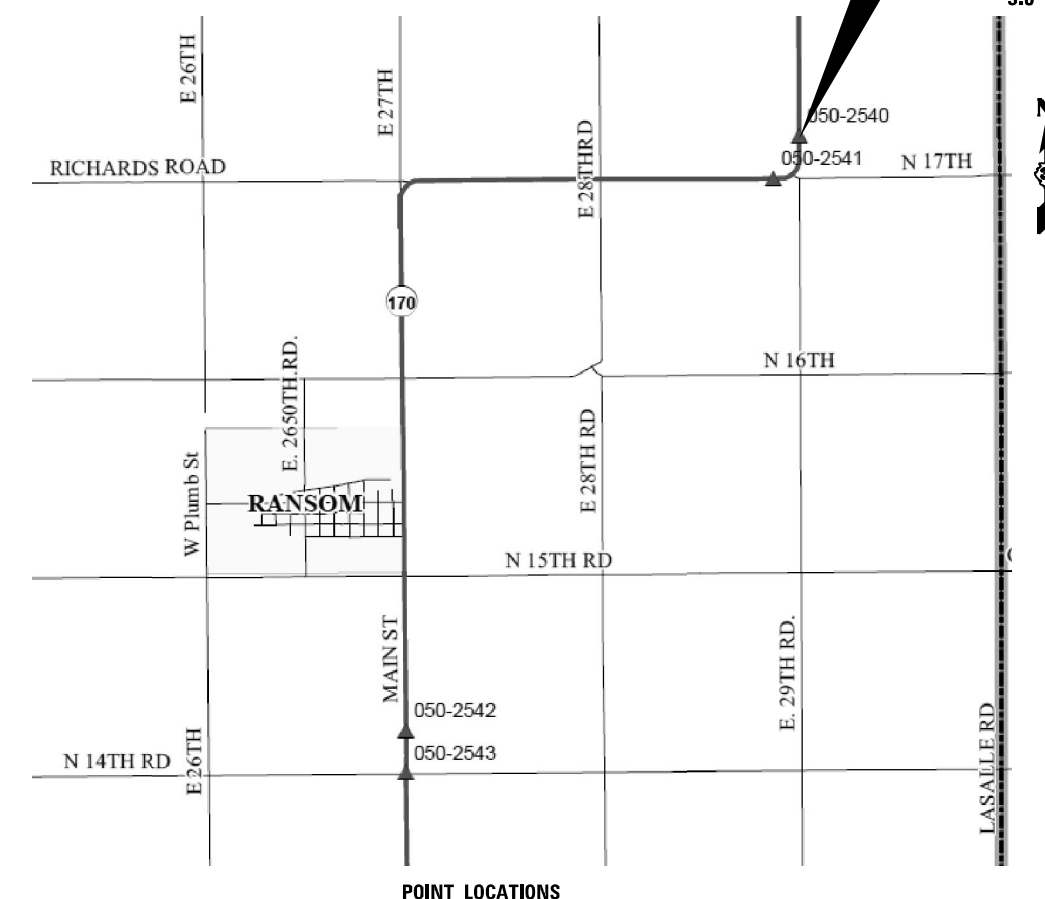
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|-----------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 001006-00 | DECIMAL OF AN INCH AND OF A FOOT |
| 420001-10 | PAVEMENT JOINTS |
| 420701-03 | PAVEMENT WELDED WIRE REINFORCEMENT |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL |
| 630101-10 | STRONG POST GUARDRAIL ATTACHED TO CULVERT |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 701001-02 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY |
| 701006-05 | OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE |
| 701201-05 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701901-08 | TRAFFIC CONTROL DEVICES |



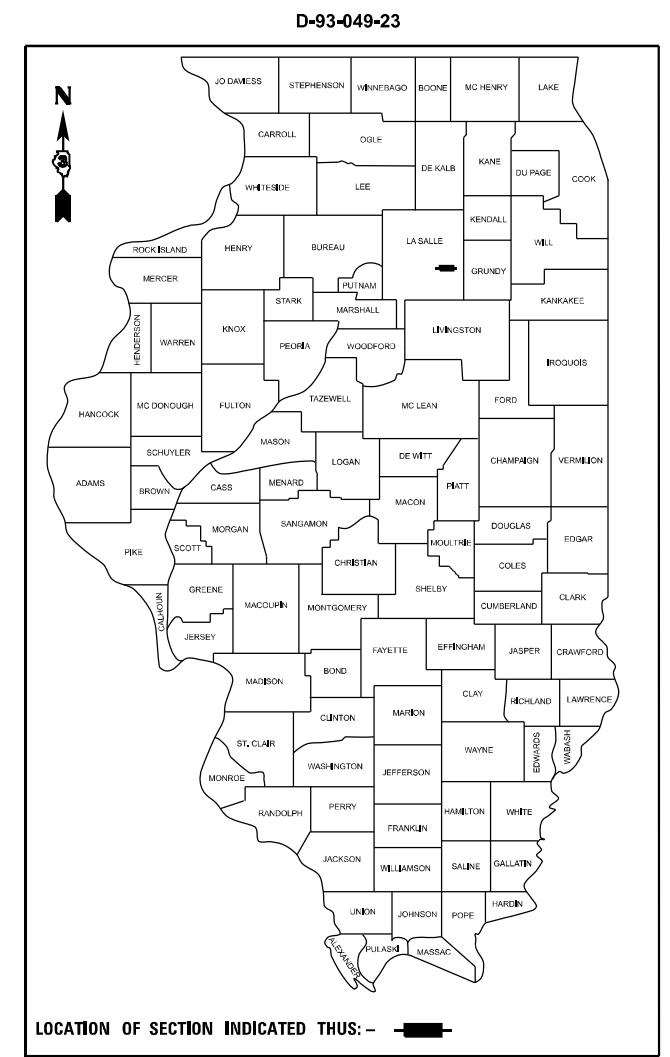
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT ENGINEER: YOGESH PATEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT PHONE (815) 434-6131
CONTRACT NO. 66N37



PROJECT LOCATION 1
STRUCTURE NO. 050-2540
SECTION (111)CLV
STA. 505 + 65
CARRYING F.A.P. ROUTE 786 (IL 170)
OVER A STREAM
3.8 MILES NORTH OF RANSOM



FUNCTIONAL CLASSIFICATION
RURAL MINOR ARTERIAL
F.A.P. ROUTE 786 (IL 170)
2021 ADT = 1300
P.V. 74.4 % S.U. 10.4 % M.U. 15.2 %

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 19 2023

David Alamed
REGIONAL ENGINEER

June 30, 2023
Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

June 30, 2023
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

TYPE III BARRICADES SHALL HAVE A MINIMUM OF 4 SAND BAGS PER LEG.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF FURISHED EXCAVATION.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

SHORT TERM PAVEMENT MARKING SHALL BE USED TO OUTLINE THE CENTERLINE OF ROADWAY.

GRANULAR MATERIALS	2.05	TONS / CU YD
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- BP PIPELINES
- BUCKEYE PARTNERS
- COM ED
- ENBRIDGE
- FAIRPOINT COMMUNICATIONA
- LASALLE COUNTY HIGHWAY
- MTCO COMMUNICATIONS.

COMMITMENTS

NONE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION**

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

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	DRAWN - RW	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 5/17/2023	DATE - 9/26/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: 50 SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	(111)CLV-2	LASALLE	18	2
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE
CONTRACT MAINTENANCE
100% STATE
BOX CULVERT
0004
S.N. 050-2540

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20400800	FURNISHED EXCAVATION	CU YD	151	151
28000400	PERIMETER EROSION BARRIER	FOOT	270	270
31100800	SUBBASE GRANULAR MATERIAL, TYPE A 9"	SQ YD	276	276
42000060	WELDED WIRE REINFORCEMENT	SQ YD	266	266
44201069	CLASS B PATCHES, TYPE IV, 18 INCH	SQ YD	266	266
44201299	DOWEL BARS 1 1/2"	EACH	32	32
44213200	SAW CUTS	FOOT	398	398
44213204	TIE BARS 3/4"	EACH	26	26
48101200	AGGREGATE SHOULDERS, TYPE B	TON	24	24
50102400	CONCRETE REMOVAL	CU YD	62.9	62.9
50300225	CONCRETE STRUCTURES	CU YD	78.3	78.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	7	7
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8650	8650
50800530	MECHANICAL SPLICERS	EACH	82	82

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	DATE - 9/26/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: 50 SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	(111)CLV-2	LASALLE	18	3
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE	
				100% STATE	
				BOX CULVERT	
		0004		S.N. 050-2540	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	2150	2150	
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	100	100	
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	150	150	
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	25	25	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	350	350	
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	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	13	13	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4	4	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	225	225	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	225	225	

*SPECILITY ITEMS

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PLOT SCALE = 100,000' / in.	DATE - 9/26/2022	REVISED -
PLOT DATE = 5/17/2023		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: 50 SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	(111)CLV-2	LASALLE	18	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66N37	

CONSTRUCTION CODE
 CONTRACT MAINTENANCE
 100% STATE
 BOX CULVERT
 0004
 S.N. 050-2540

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
70600251	IM'ACT ATTENUATORS, TEMPORARY(NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600352	IM'ACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1050	1050
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	260	260
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4	4
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQFT	66	66
* X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	4	4
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	6	6
Z0030850	TEMPORARY INFORMATION SIGN ING	SQFT	42	42

*SPECIALITY ITEMS

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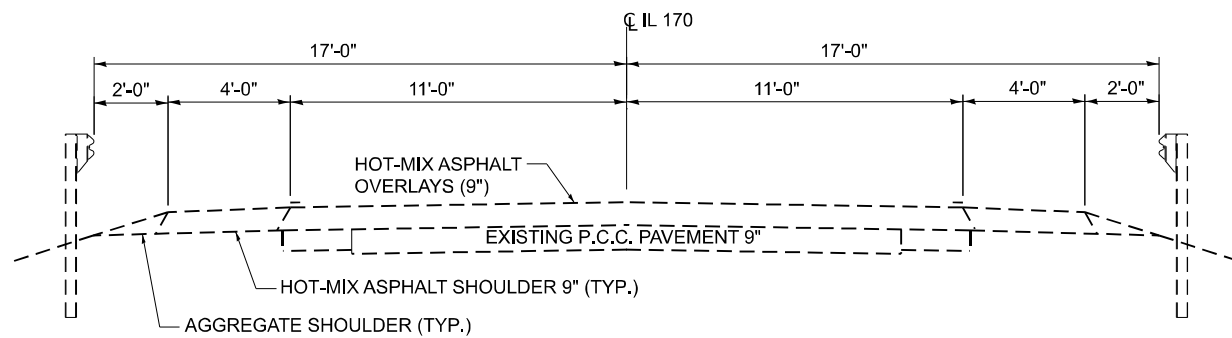
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

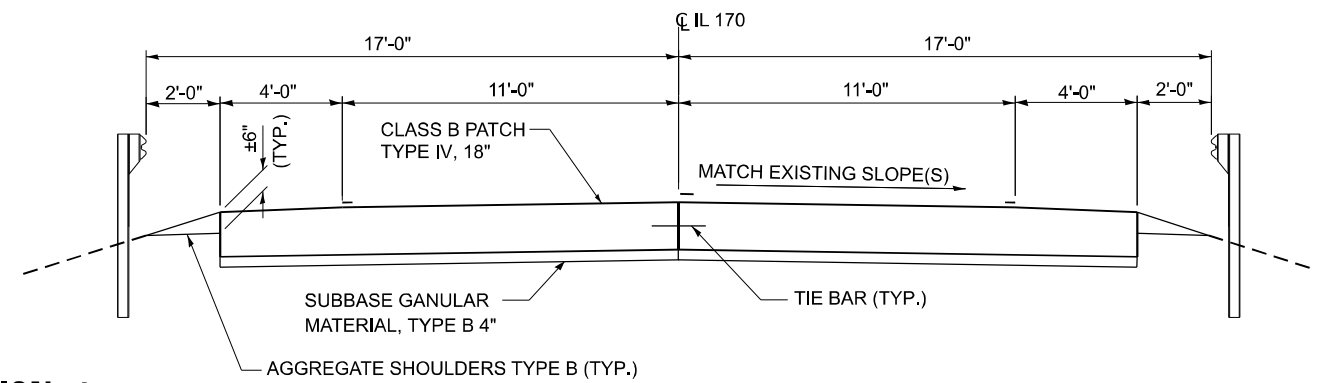
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FAP RTE. 1	SECTION (111)CLV-2	COUNTY LASALLE	TOTAL SHEETS 18	SHEET NO. 5
786			CONTRACT NO. 66N37	



EXISTING
AT RT. Δ's TO CL ROADWAY
LOOKING SOUTH

TYPICAL SECTION 1
STRUCTURE NO. 050-2540



PROPOSED
AT RT. Δ's TO CL ROADWAY
LOOKING SOUTH

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PLOT DATE = 5/17/2023	DATE - 9/26/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION			
SCALE: 50	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 786	SECTION (111)CLV-2	COUNTY LASALLE	TOTAL SHEETS 18	SHEET NO. 6
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				

SCHEDULE - PAVEMENT MARKING

LOCATION			PAVEMENT MARKING REMOVAL WATER-BLASTING	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING LINE 4"	MODIFIED URETHANE PAVEMENT MARKING LINE 6"
						YELLOW	YELLOW
STATION	TO	STATION	SQ FT	FOOT	SQ FT	FOOT	FOOT
503+45	TO	508+70	66	13	4	1050	260
TOTAL			66	13	4	1050	260

MODIFIED URETHANE PAVEMENT MARKING SHALL BE INSTALLED WITH TWO APPLICATIONS (SEE SPECIAL PROVISION.)

SCHEDULE - GUARDRAIL

LOCATION	GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	STEEL PLATE BEAM GUARDRAIL TYPE A 9 FOOT POSTS	STRONG POST GUARDRAIL ATTACHED TO STRUCTURE	GUARDRAIL REFLECTORS TYPE 1 A	LINEAR DELINEATOR PANELS 4 INCH
STAGE	FOOT	FOOT	FOOT	FOOT	EACH	EACH
STAGE I	175	2	75	12.5	2	2
STAGE II	175	2	75	12.5	2	2
TOTAL	350	4	150	25	4	4

SCHEDULE - TRAFFIC CONTROL

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	TRAFFIC CONTROL AND PROTECTION STANDARD 701321	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPCT ATTENUATORS TEMPORARY (NON-REDIRECTIVE, NARROW) TEST LEVEL 3	IMPCT ATTENUATORS RELOCATE (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
STA.	L SUM	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH
STAGE I	0.5	1	0.5	6	225		2	
STAGE II	0.5		0.5			225		2
TOTAL	1	1	1	6	225	225	2	2

SCHEDULE - ROADWAY

LOCATION				PATCH LENGTH	CLASS B TYPE IV 18"	DOWEL BARS 1 1/2"	SAW CUTS	WELDED WIRE REINF.	TIE BARS 3/4"	SUBBASE GRANULAR MATERIAL TYPE A 9"	AGGREGATE SHOULDERS TYPE B
STATION	TO	STATION	LT/RT	(FT)	SQ YD	EACH	FOOT	SQ YD	EACH	SQ YD	TON
505+25	TO	506+05	LT	80	133	16	199	133	26	138	12
505+25	TO	506+05	RT	80	133	16	199	133		138	12
TOTAL				160	266	32	398	266	26	276	24

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PLOT DATE = 5/17/2023	DATE - 9/26/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





**SCHEDULES
FOR STRUCTURE NO. 050-2540**

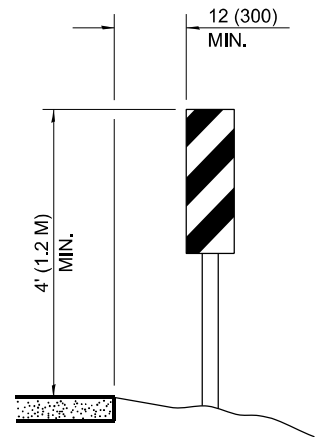
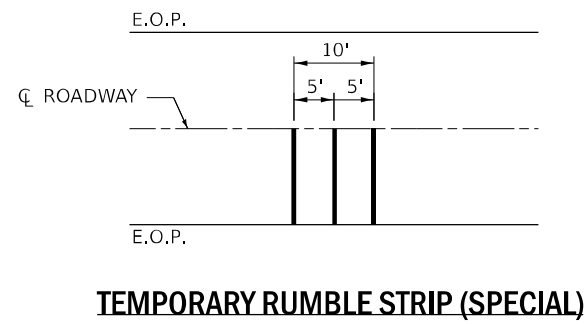
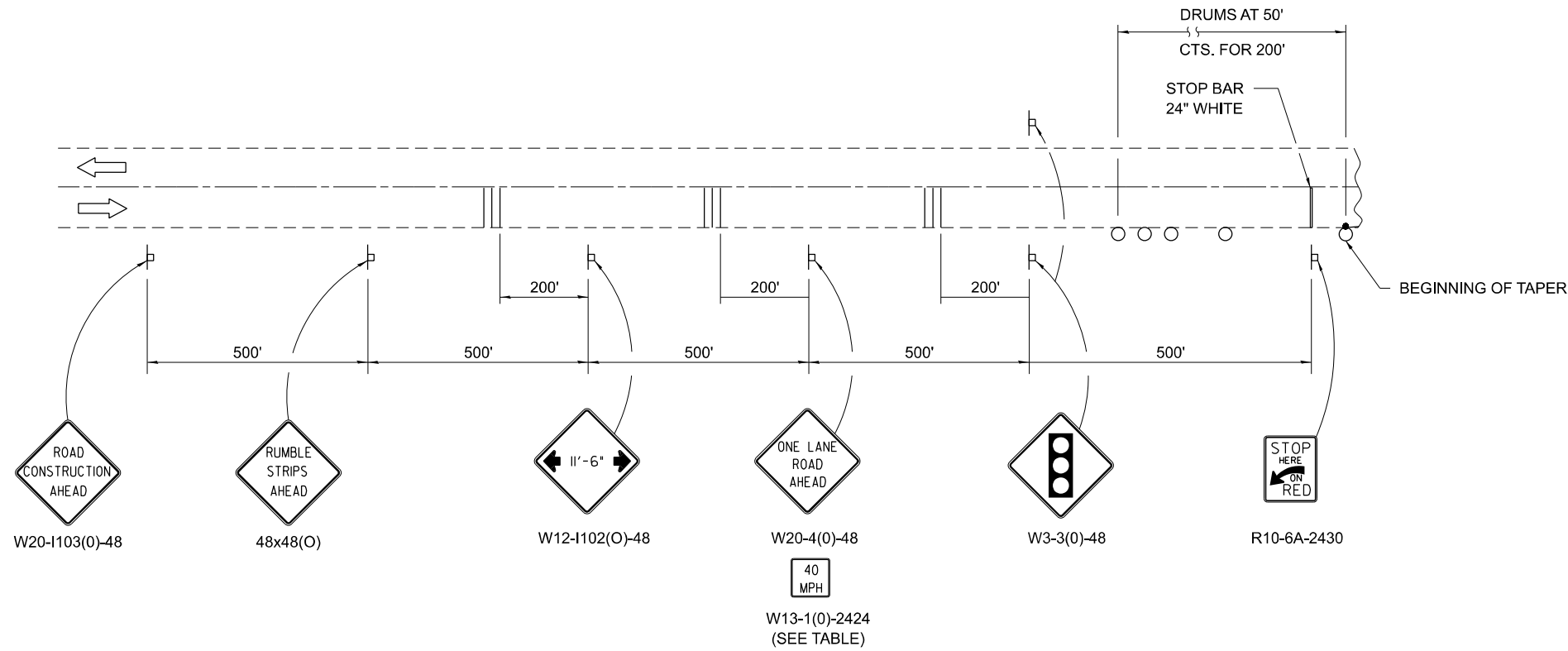
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F.A.P. RTE. 786	SECTION (111)CLV-2	COUNTY LASALLE	TOTAL SHEETS 18	SHEET NO. 7
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				

TEMPORARY CONCRETE BARRIER	
NORMAL POSTED SPEED	TAPER RATIO
40 mph AND ABOVE	12:1
BELOW 40 mph	8:1

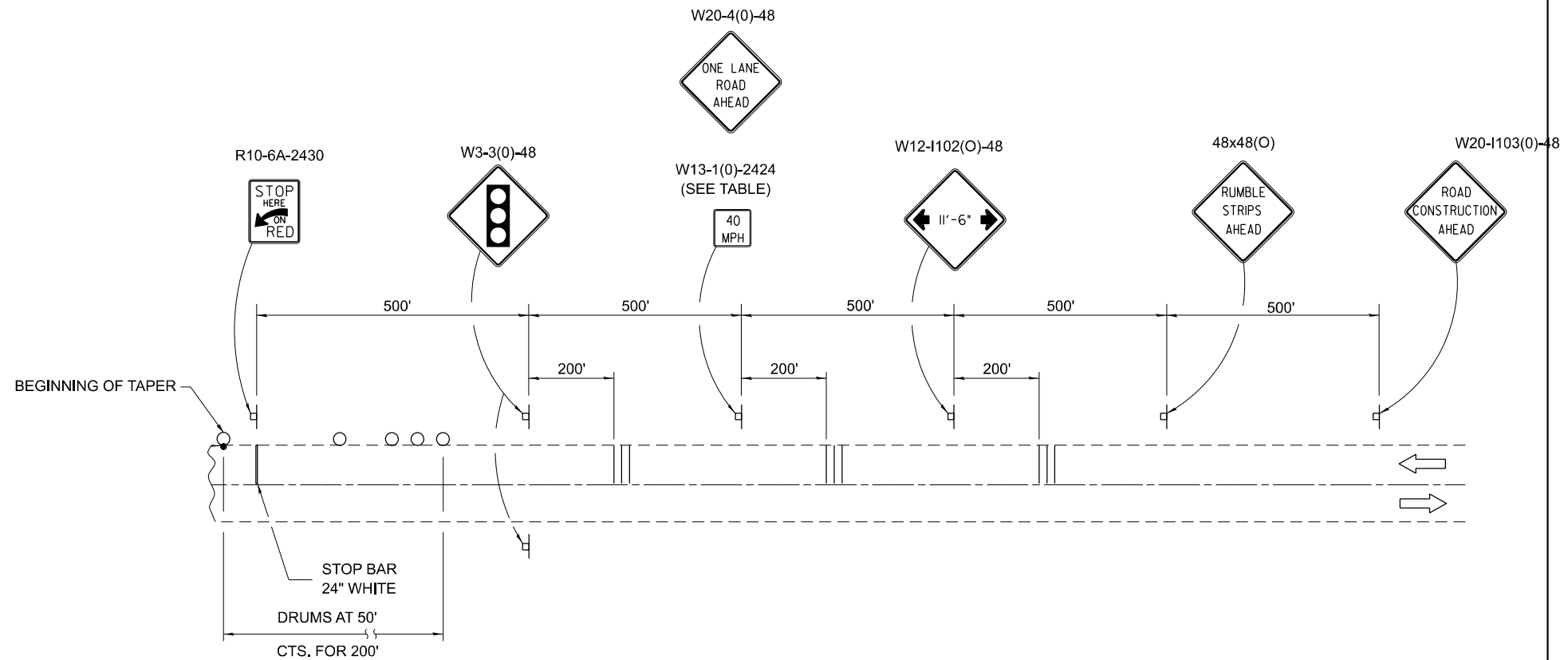
SYMBOLS

-  SIGN
-  TEMPORARY RUMBLE STRIP (SPECIAL)
-  DRUM
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT



LEGEND

 TEMPORARY RUMBLE STRIP (SPECIAL)



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
ADVANCED SIGNING**

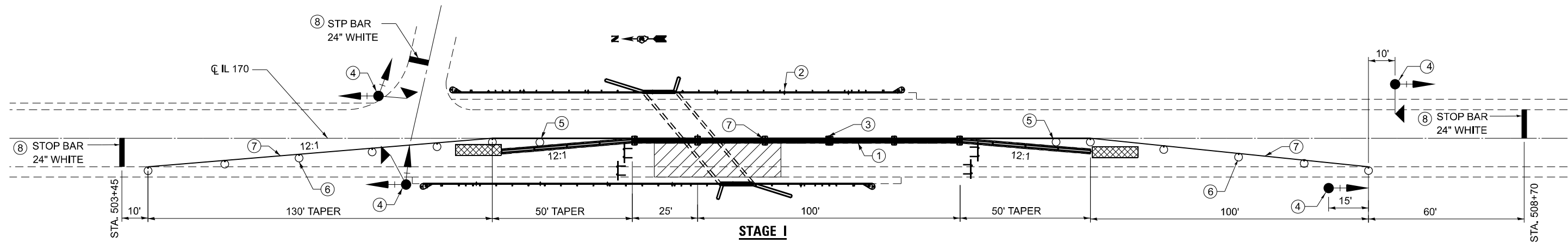
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	(111)CLV-2	LASALLE	18	8
CONTRACT NO. 66N37				

SCALE: 50 SHEET 1 OF 2 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

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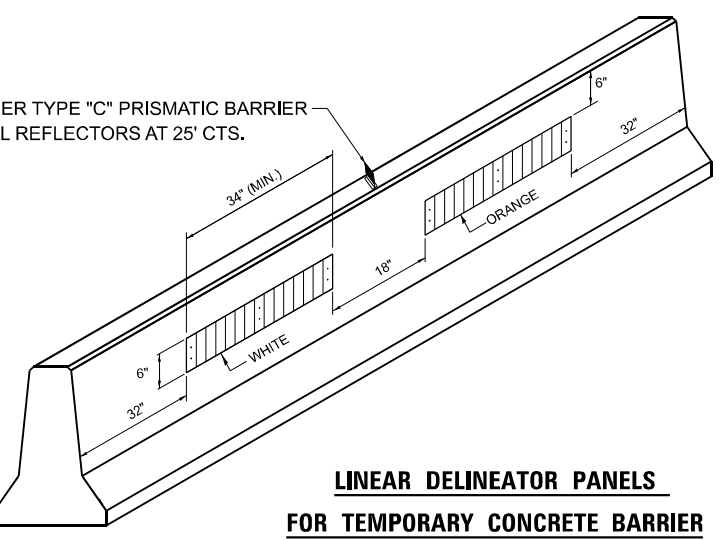
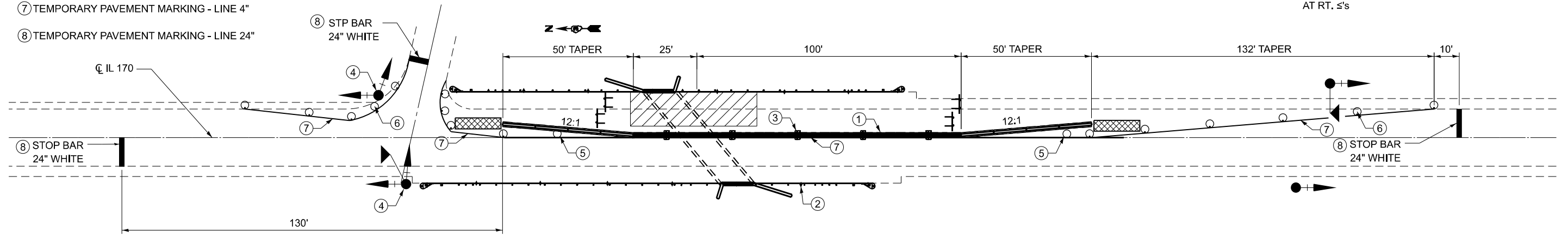
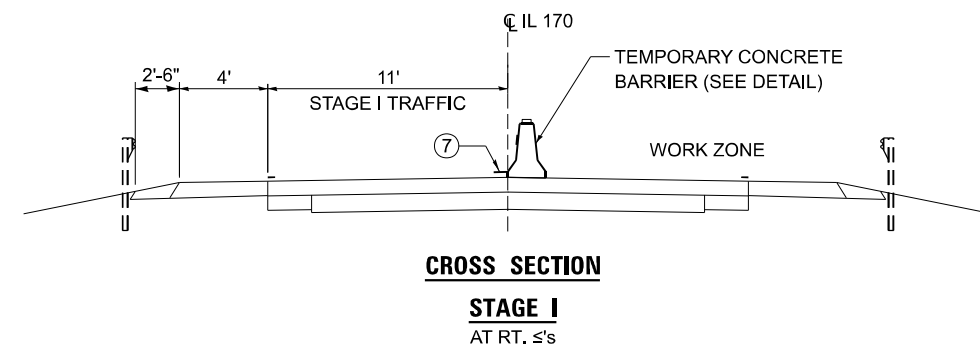
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- ① TEMPORARY CONCRETE BARRIER WITH LINEAR DELINEATOR (SEE DETAIL)
- ② GUARDRAIL MARKERS, TYPE A AT 25' CTS.
- ③ BARRIER WALL MARKER, TYPE C AT 25' CTS.
- ④ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6" FROM THE EDGE OF SHOULDER
- ⑤ TRAFFIC CONTROL DRUM
- ⑥ TRAFFIC CONTROL DRUM WITH STEADY BURNING LIGHT
- ⑦ TEMPORARY PAVEMENT MARKING - LINE 4"
- ⑧ TEMPORARY PAVEMENT MARKING - LINE 24"

LEGEND

WORK AREA	BIDIRECTIONAL CONCRETE BARRIER WALL REFLECTOR, TYPE C
SIGN	TRAFFIC SIGNAL WITH BACKPLATE
TYPE III BARRICADE WITH FLASHING LIGHTS	TRAFFIC SIGNAL WITH BACKPLATE AND MOTION DETECTOR
CRYSTAL, BIDIRECTIONAL GUARDRAIL REFLECTOR, TYPE A	TEMPORARY IMPACT ATTENUATORS (NON-REDIRECTIVE, NARROW) TEST LEVEL 3



GENERAL NOTES

THIS STANDARD IS USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A BRIDGE. TRAFFIC SIGNALS AND A POSITIVE BARRIER ARE REQUIRED.

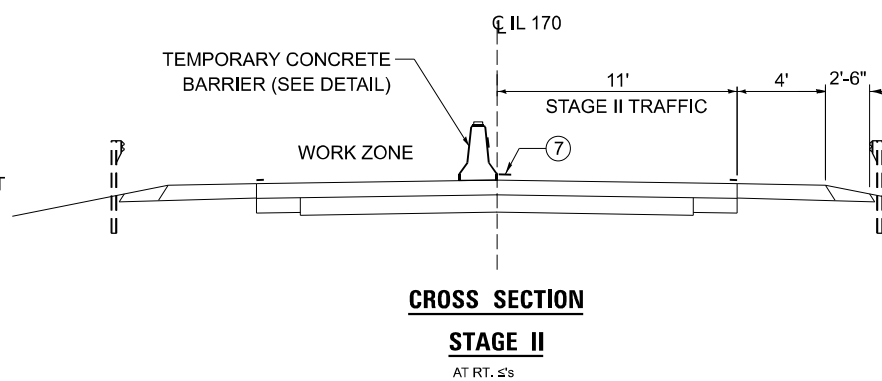
TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

TEMPORARY CONCRETE BARRIER SHALL BE ACORDING TO STANDARD 704001 AND THE DETAIL "LINEAR DELIEATOR PANELS FOR TEMPORARY CONCRETE BARRIER".

GUARDRAIL REFLECTORS TYPE, A AND TYPE C AS SHOWN ON THIS DETAIL SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.



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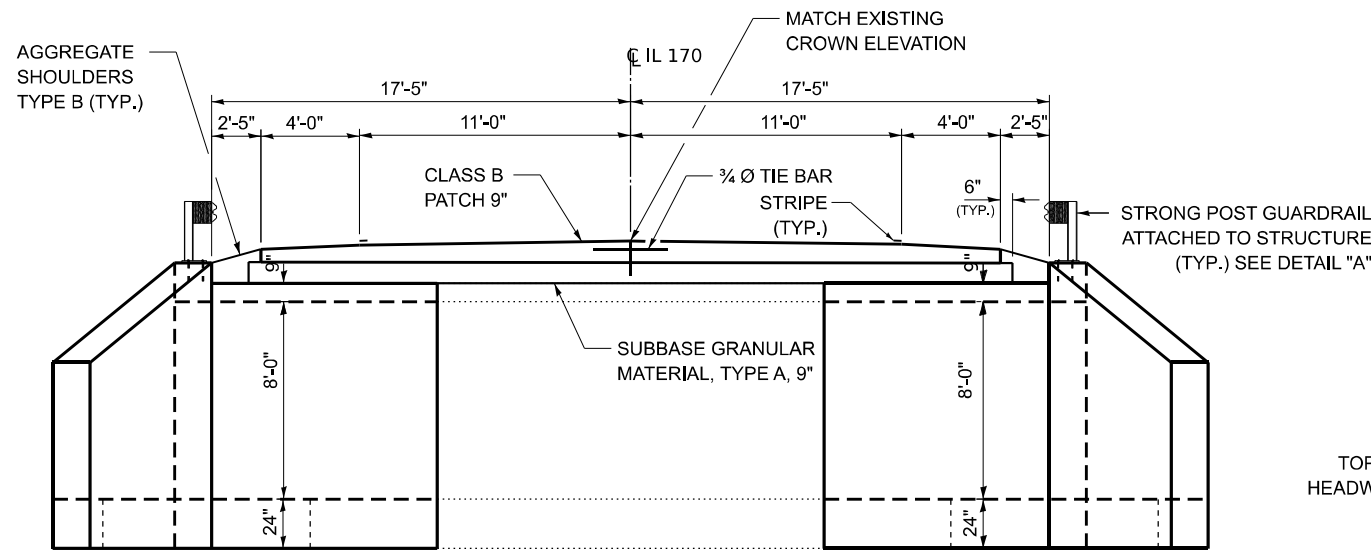
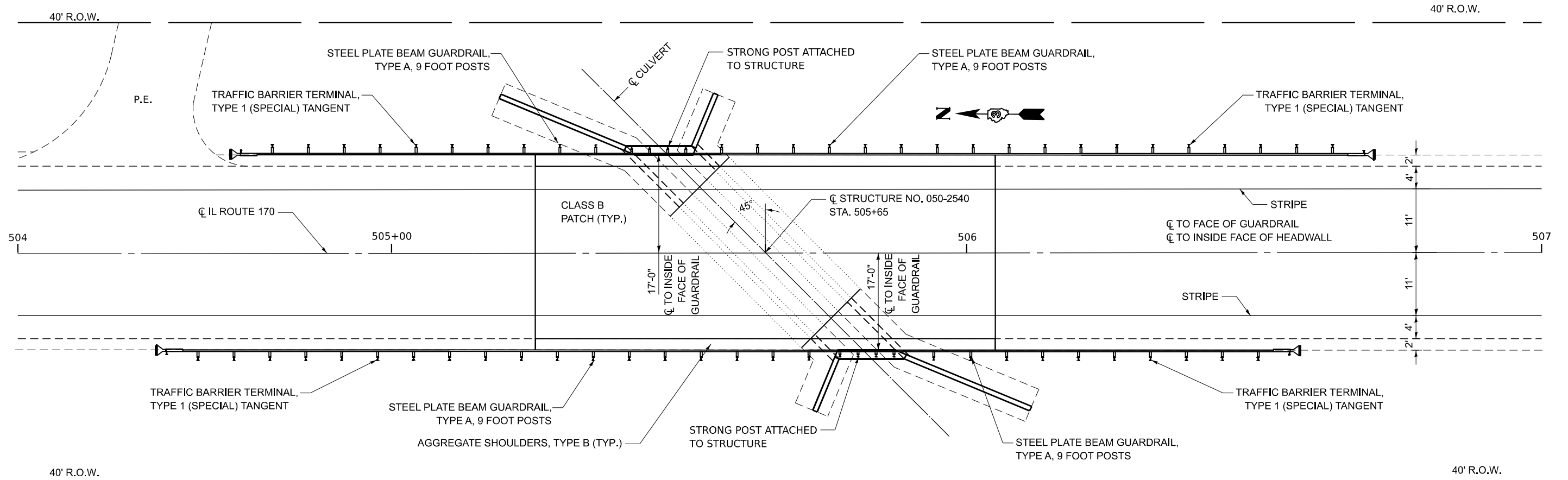
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 STRUCTURE NO. 050-2540

SCALE: 50 SHEET 2 OF 2 SHEETS STA. TO STA.

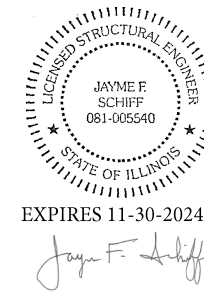
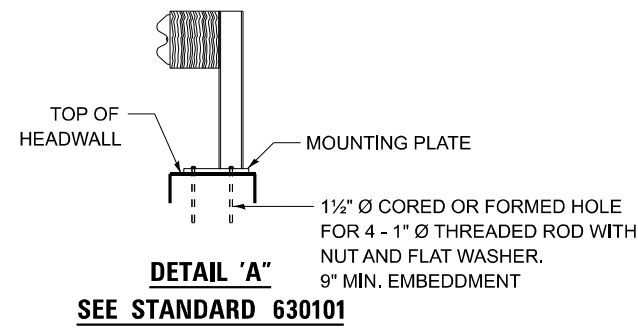
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	(111)CLV-2	LASALLE	18	9
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				

B.M. #1 HEAD OF 60D NAIL IN SOUTH SIDE OF POWER POLE
 SOUTHEAST CORNER IL 10 AND 1724 E. 29th RD. ELEVATION 654.09



CROSS SECTION
STRUCTURE NO. 050-2540

AT RT. 4' TO CL ROADWAY
 LOOKING SOUTH



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
FURNISHED EXCAVATION	CU YD	151
GRANULAR BACKFILL FOR STRUCTURES	CU YD	100
CONCRETE REMOVAL	CU YD	62.9
CONCRETE SUPERSTRUCTURE	CU YD	7
CONCRETE STRUCTURE	CU YD	78.3
REINFORCEMENT BARS EPOXY COATED	POUND	8650
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	31
MECHANICAL SPLICERS	EACH	82
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	2150

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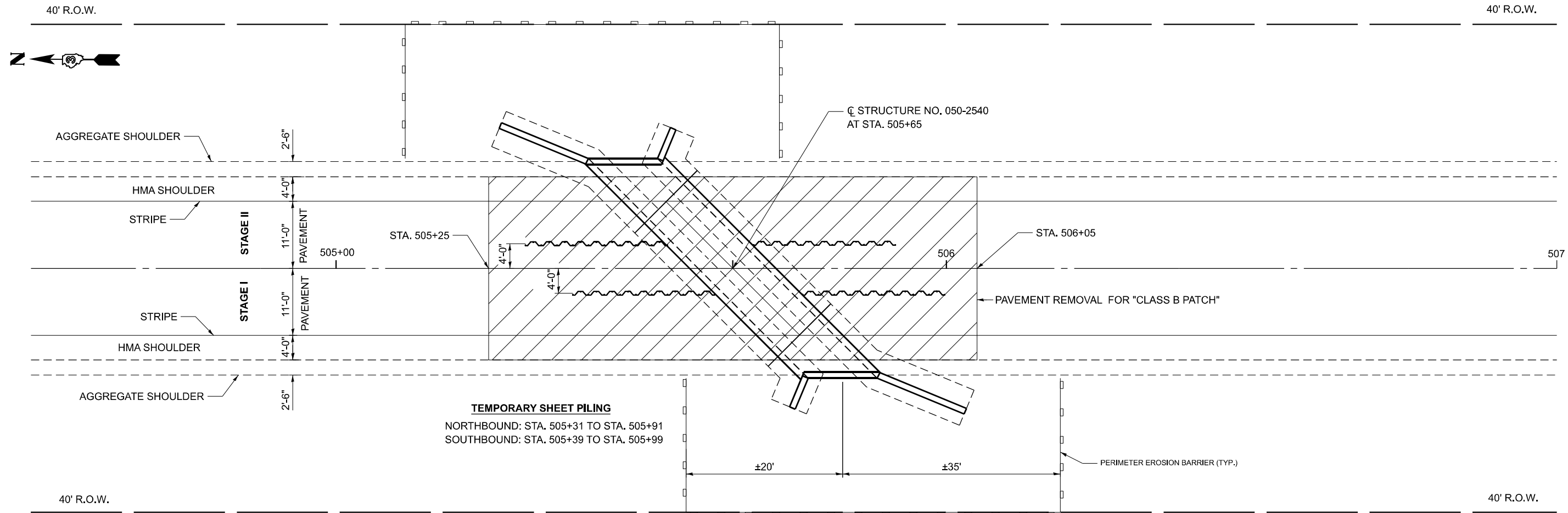
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 050-2540

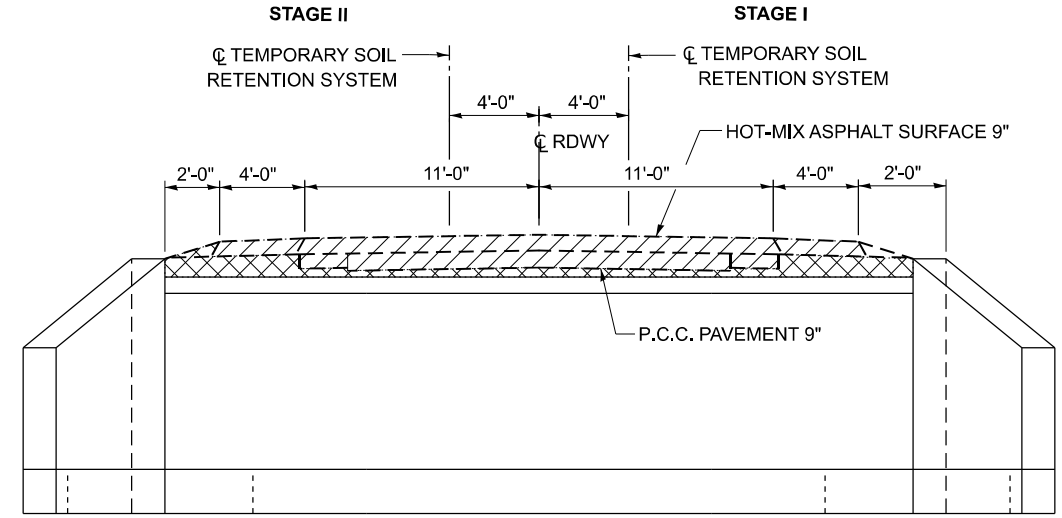
SCALE: 50 SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	(111)CLV-2	LASALLE	18	10
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				



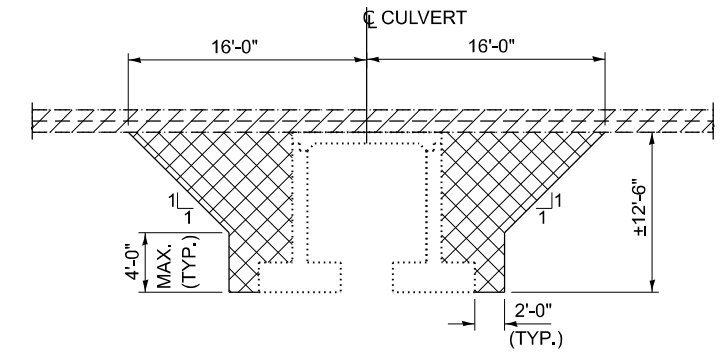
LEGEND

- PAVEMENT REMOVAL FOR CLASS B PATCH
- 40' R.O.W. FLOW
- EXCAVATION
- TEMPORARY SHEET PILING



ELEVATION

AT RT. Δ 's TO ϕ ROADWAY
LOOKING SOUTH



SECTION THROUGH BARREL

SHOWING EXCAVATION
DIMENSIONS TAKEN AT RT. Δ 's TO ϕ CULVERT

MODEL: D:\info\... FILE NAME: ...

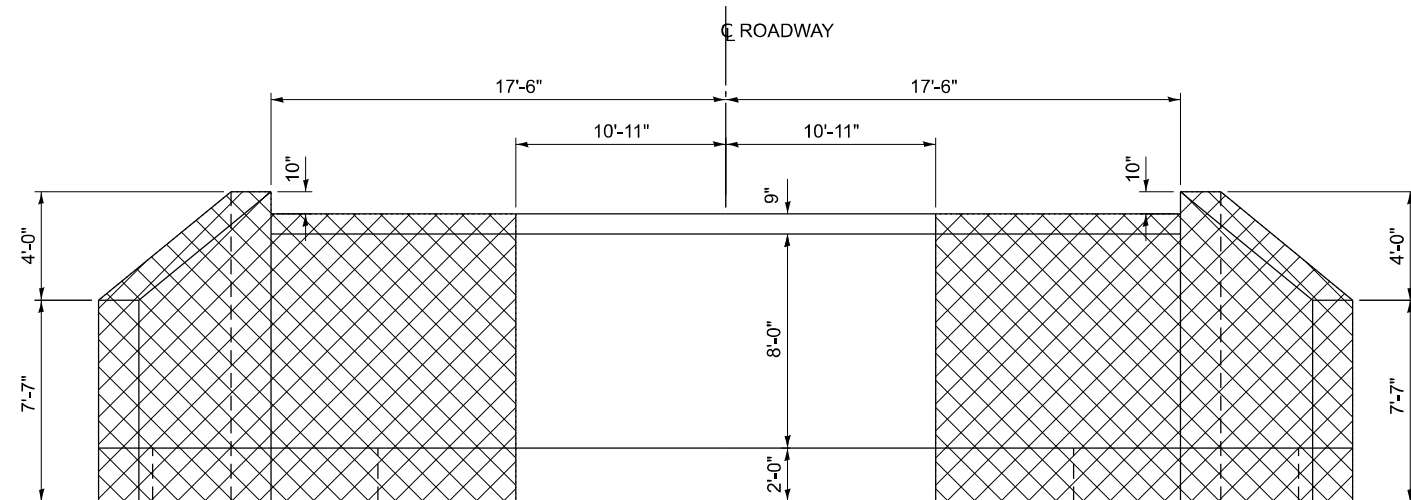
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DRAWN - RW	REVISED -	
PLOT SCALE = 100,000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 5/17/2023	DATE - 9/26/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY REMOVAL DETAILS
FOR STRUCTURE 050-2540**

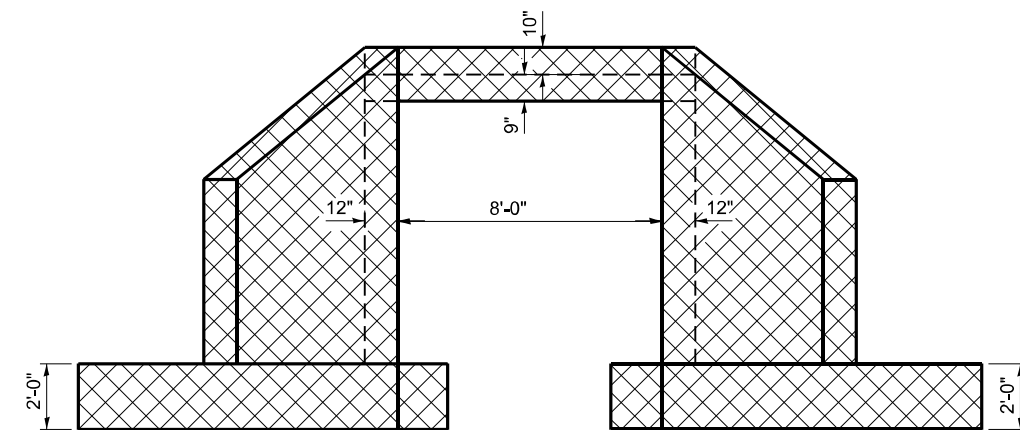
SCALE: 50 SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 786	SECTION (111)CLV-2	COUNTY LASALLE	TOTAL SHEETS 18	SHEET NO. 11
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				



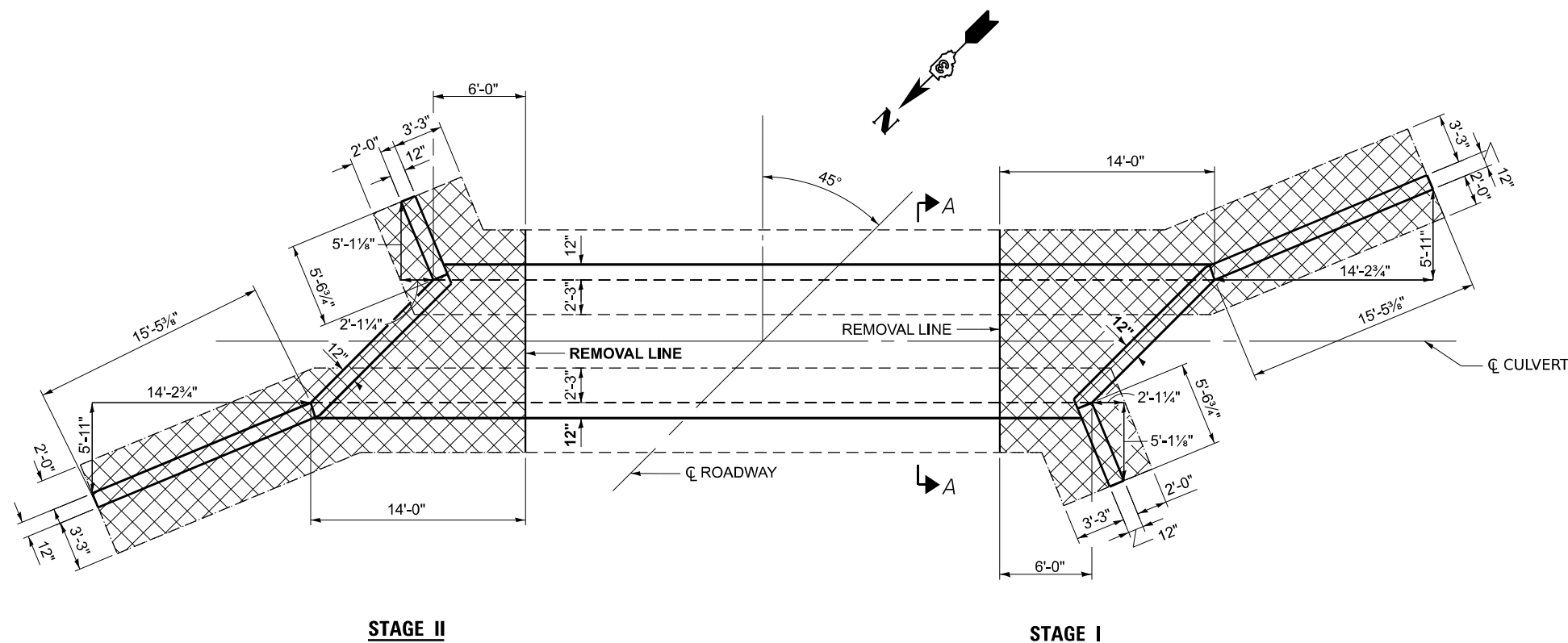
ELEVATION

DIMENSIONS @ RT. ∠'s TO C ROADWAY



SECTION THROUGH BARREL

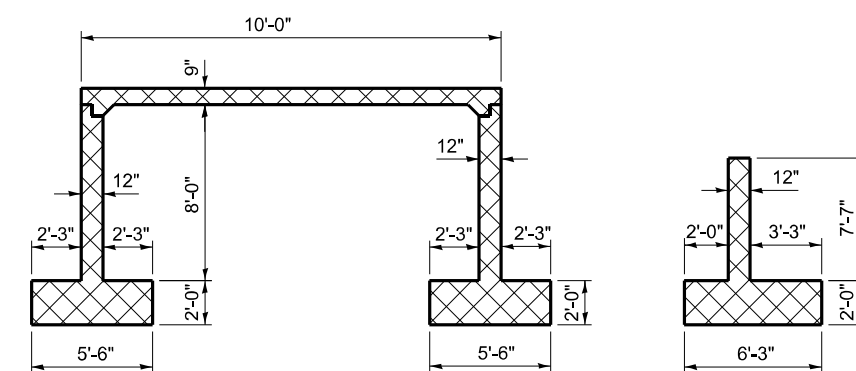
NOTE:
EXISTING LONGITUDINAL REINFORCEMENT EXTENDING INTO REMOVAL AREA SHALL BE CUT OFF A MINIMUM OF 6" FROM FACE OF REMOVAL LINE AND CLEANED FOR THE INSTALLATION OF MECHANICAL SPLICERS.



STAGE II

STAGE I

**EXISTING PLAN
STRUCTURE NO. 050-2540**



SECTION A-A

**SECTION
END OF WING**

MODEL: D:\info\... FILE NAME: ...

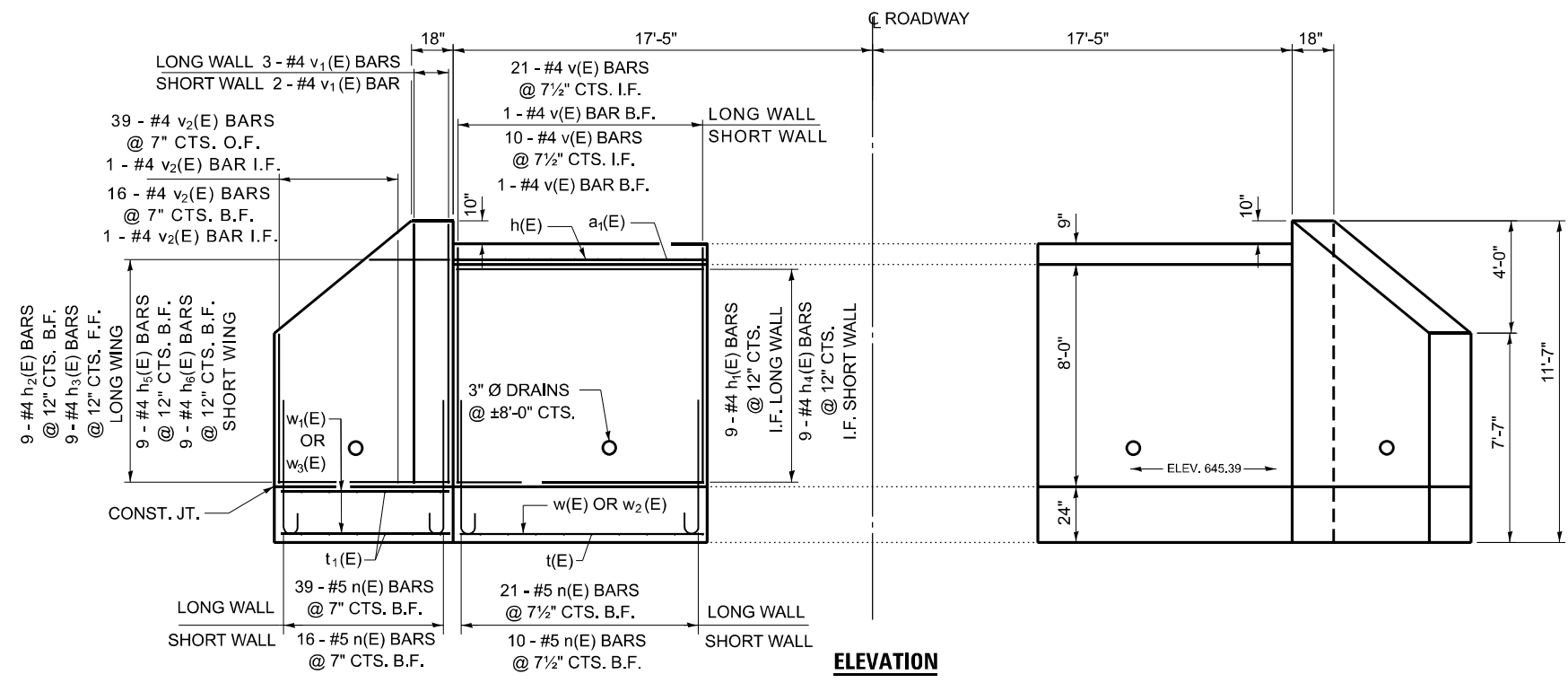
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DRAWN - RW	REVISIONS -	
PLOT SCALE = 100,000' / in.	CHECKED - YP	REVISIONS -
PLOT DATE = 5/17/2023	DATE - 9/26/2022	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

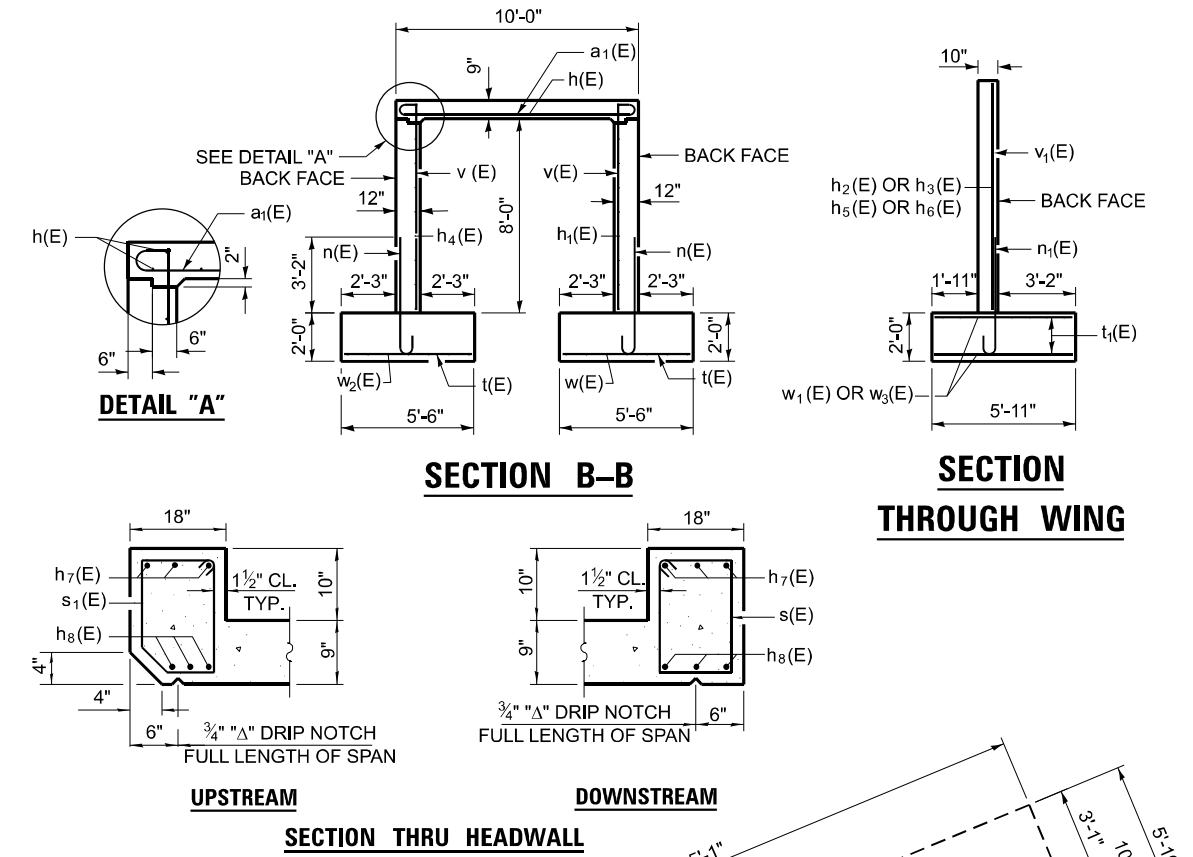
**CONCRETE REMOVAL DETAILS
FOR STRUCTURE 050-2540**

SCALE: 50 SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 786	SECTION (111)CLV-2	COUNTY LASALLE	TOTAL SHEETS 18	SHEET NO. 12
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				

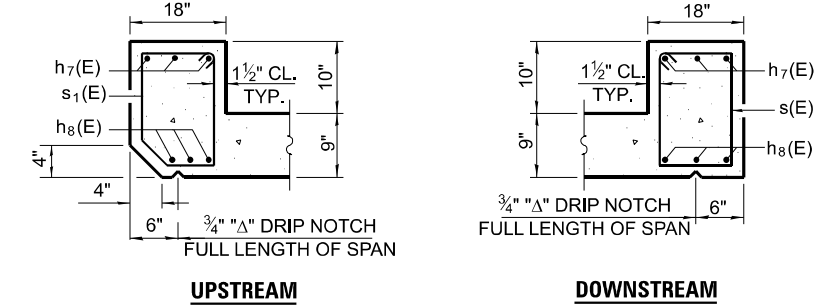


ELEVATION



SECTION B-B

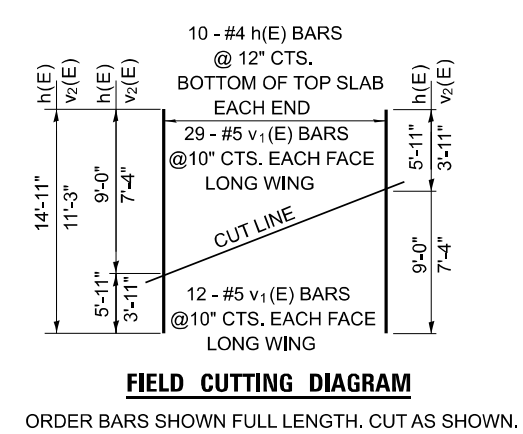
SECTION THROUGH WING



UPSTREAM

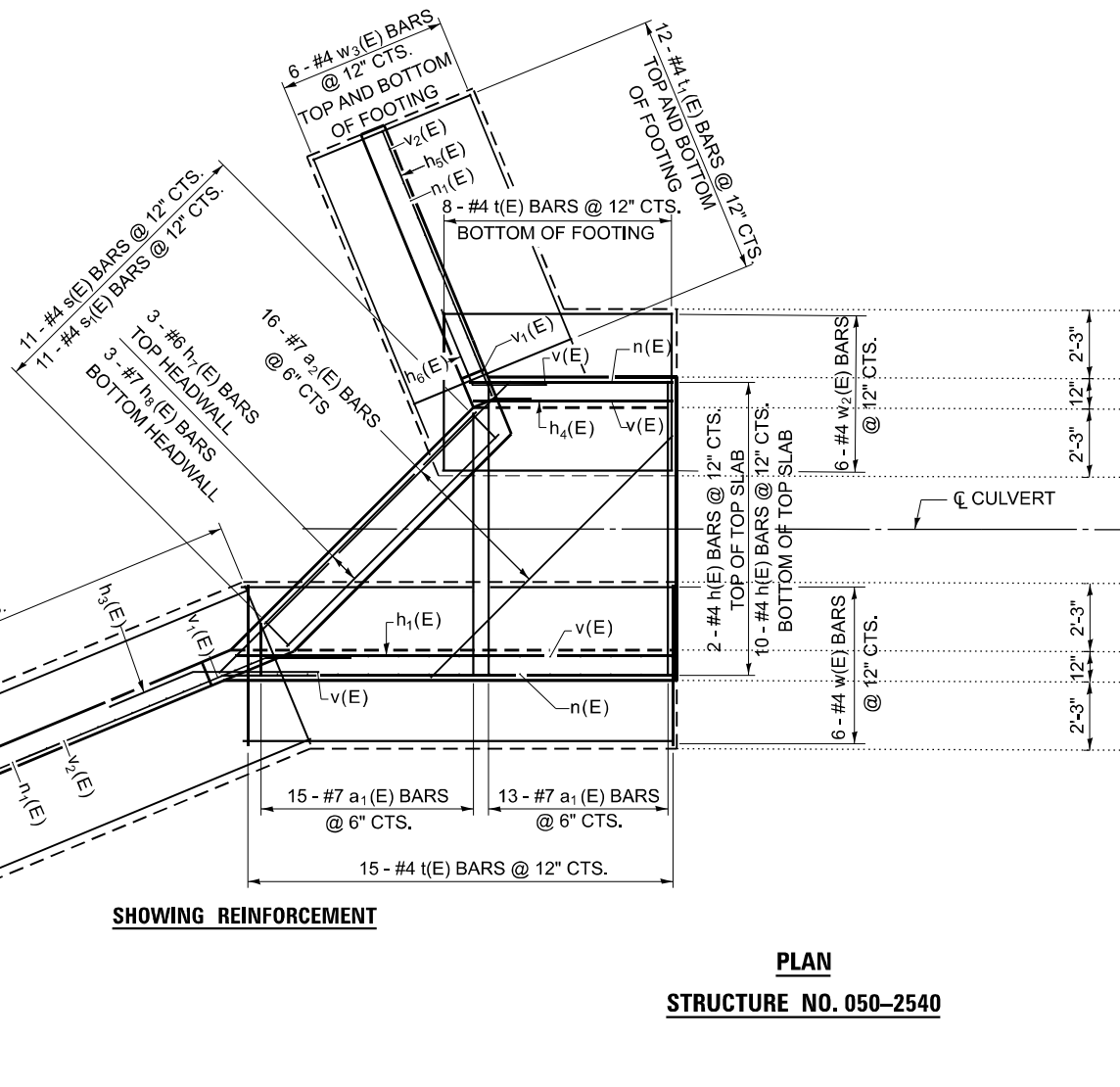
DOWNSTREAM

SECTION THRU HEADWALL



FIELD CUTTING DIAGRAM

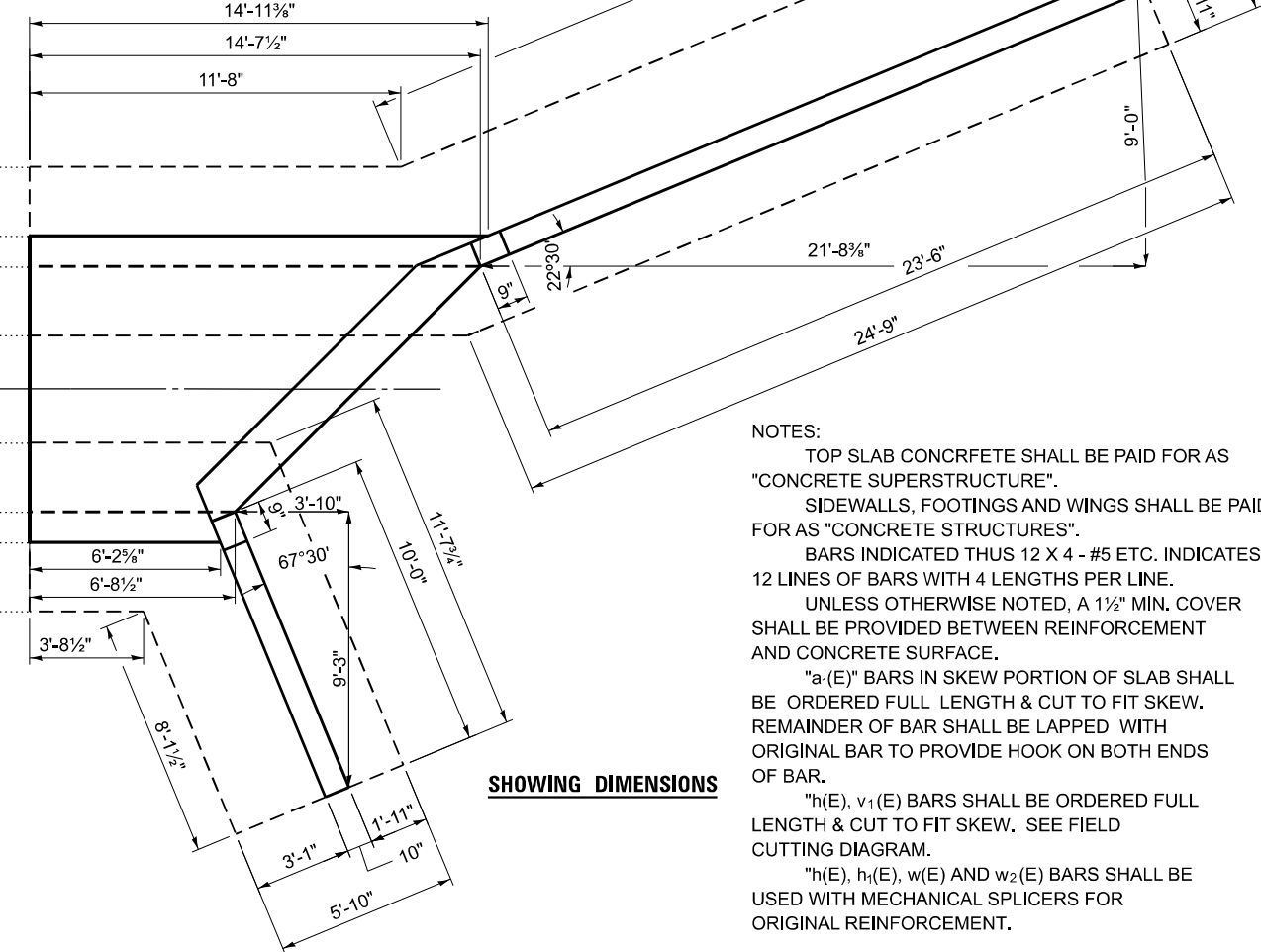
ORDER BARS SHOWN FULL LENGTH. CUT AS SHOWN.



SHOWING REINFORCEMENT

PLAN

STRUCTURE NO. 050-2540



SHOWING DIMENSIONS

NOTES:
 TOP SLAB CONCRFETE SHALL BE PAID FOR AS "CONCRETE SUPERSTRUCTURE".
 SIDEWALLS, FOOTINGS AND WINGS SHALL BE PAID FOR AS "CONCRETE STRUCTURES".
 BARS INDICATED THUS 12 X 4 - #5 ETC. INDICATES 12 LINES OF BARS WITH 4 LENGTHS PER LINE.
 UNLESS OTHERWISE NOTED, A 1 1/2" MIN. COVER SHALL BE PROVIDED BETWEEN REINFORCEMENT AND CONCRETE SURFACE.
 "a1(E)" BARS IN SKEW PORTION OF SLAB SHALL BE ORDERED FULL LENGTH & CUT TO FIT SKEW. REMAINDER OF BAR SHALL BE LAPPED WITH ORIGINAL BAR TO PROVIDE HOOK ON BOTH ENDS OF BAR.
 "h(E), v1(E) BARS SHALL BE ORDERED FULL LENGTH & CUT TO FIT SKEW. SEE FIELD CUTTING DIAGRAM.
 "h(E), h1(E), w(E) AND w2(E) BARS SHALL BE USED WITH MECHANICAL SPLICERS FOR ORIGINAL REINFORCEMENT.

MODEL: D:\info...
 FILE NAME: ...
 PROJECT: ...
 SHEET: 4 OF 6

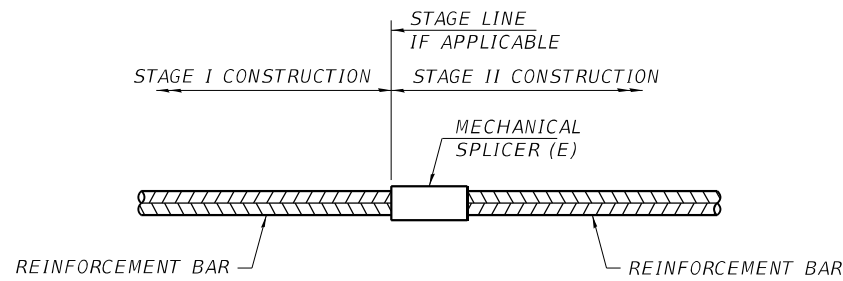
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DRAWN - RW	REVISED -	
PLOT SCALE = 100,000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 5/17/2023	DATE - 9/26/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE BOX CULVERT DETAILS
 STRUCTURE NO. 050-2540**

SCALE: 50 SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 786	SECTION (111)CLV-2	COUNTY LASALLE	TOTAL SHEETS 18	SHEET NO. 13
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				

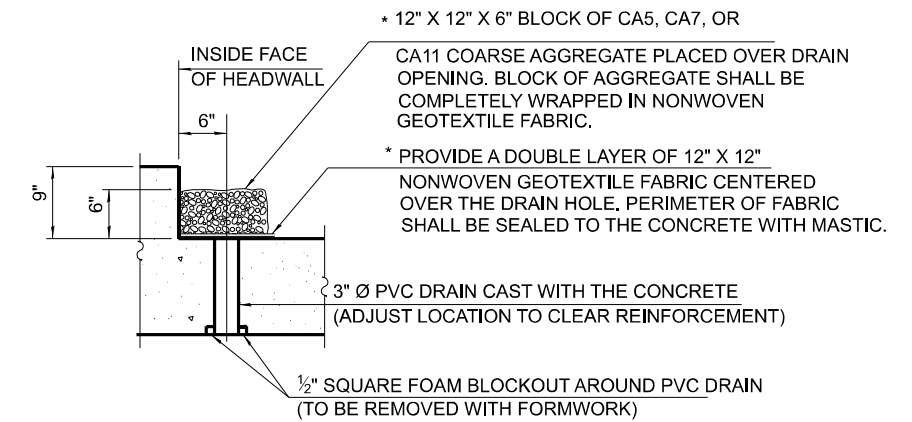


STANDARD MECHANICAL SPLICER

LOCATION	BAR SPLICED	BAR SIZE	NO. ASSEMBLIES REQUIRED
WEST END			
TOP SLAB	b(E)	#4	11
LONG SIDE WALL	h(E)	#4	8
LONG FOOTING	w(E)	#4	7
SHORT SIDE WALL	h ₂ (E)	#4	8
SHORT FOOTING	w ₂ (E)	#4	7
EAST END			
TOP SLAB	b(E)	#4	11
SHORT SIDE WALL	h(E)	#4	8
SHORT FOOTING	w(E)	#4	7
LONG SIDE WALL	h ₂ (E)	#4	8
LONG FOOTING	w ₂ (E)	#4	7
TOTAL			82

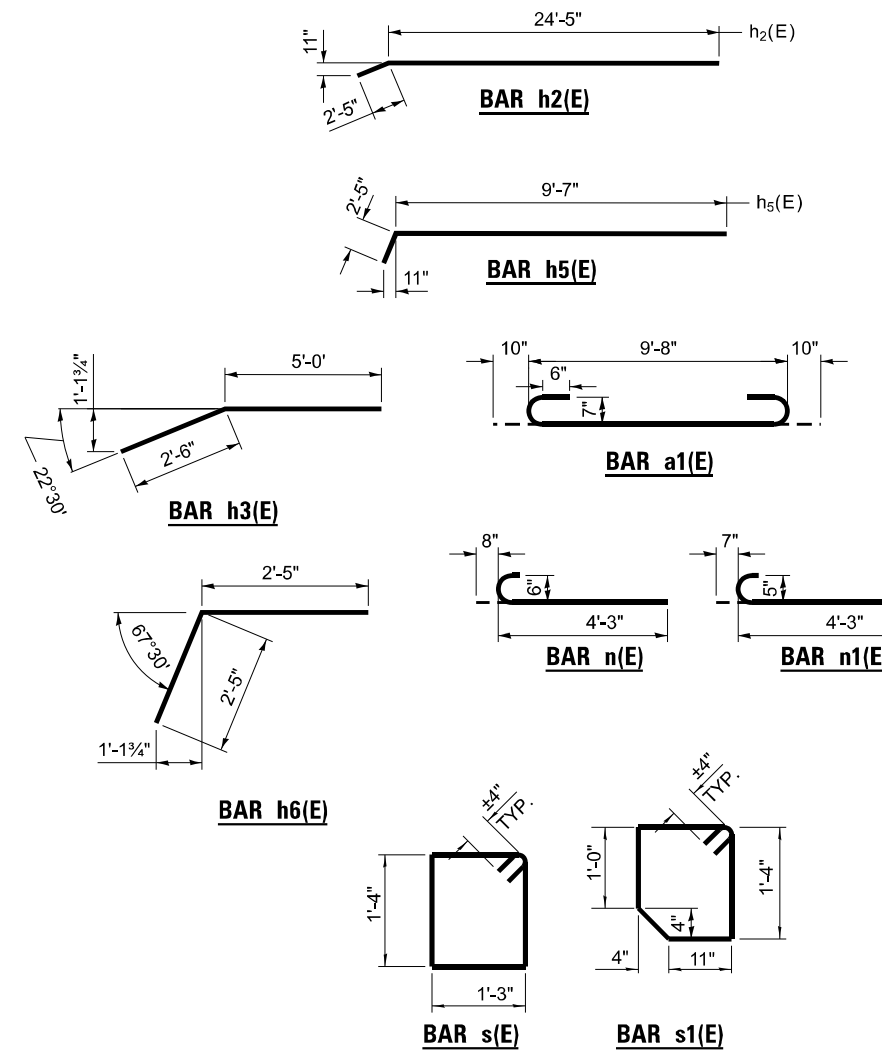
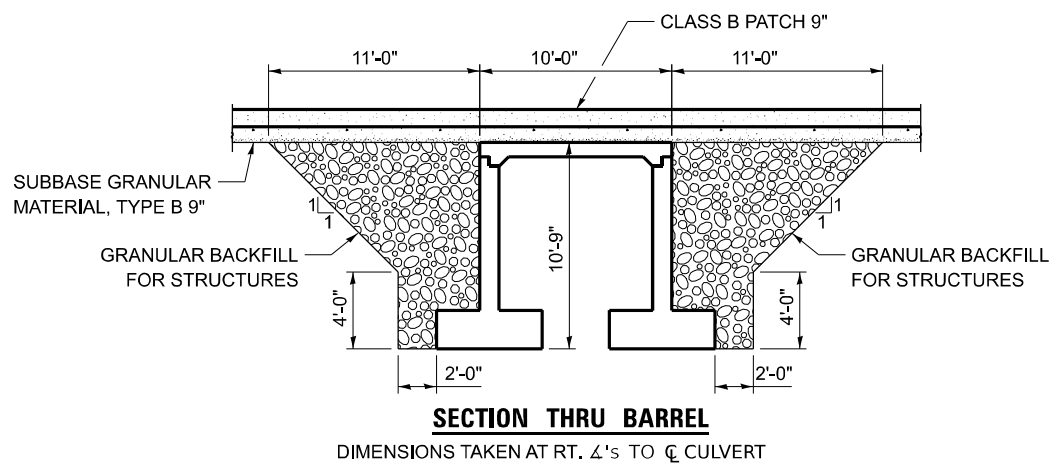
MECHANICAL SPLICERS

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.



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.)



BILL OF MATERIAL BOTH ENDS

BAR	NO.	SIZE	LENGTH	SHAPE
a1(E)	56	#7	12'-4"	
a2(E)	32	#7	13'-0"	
h(E)	24	#4	14'-11"	
h1(E)	18	#4	14'-6"	
h2(E)	18	#4	26'-10"	
h3(E)	18	#4	7'-6"	
h4(E)	18	#4	6'-6"	
h5(E)	18	#4	12'-0"	
h6(E)	18	#4	4'-10"	
h7(E)	6	#6	10'-2"	
h8(E)	6	#7	10'-2"	
n(E)	172	#5	4'-11"	
s(E)	22	#4	5'-10"	
s1(E)	22	#4	5'-8"	
t(E)	46	#4	5'-3"	
t1(E)	148	#4	5'-7"	
v(E)	66	#4	8'-6"	
v1(E)	10	#4	11'-4"	
v2(E)	114	#4	11'-3"	
w(E)	12	#4	14'-2"	
w1(E)	24	#4	24'-7"	
w2(E)	12	#4	7'-8"	
w3(E)	24	#4	11'-2"	
CONCRETE REMOVAL			CU. YD.	62.9
CONCRETE SUPERSTRUCTURE			CU. YD.	7
CONCRETE STRUCTURES			CU. YD.	78.3
REINFORCEMENT BARS, EPOXY COATED			POUND	8650

(E) DENOTES EPOXY COATED BARS

MODEL: D:\info... FILE NAME: ...

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - RW	REVISED -
PLOT DATE = 5/17/2023	CHECKED - YP	REVISED -
	DATE - 9/26/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
STRUCTURE NO. 050-2540**

SCALE: 50 SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	(111)CLV-2	LASALLE	18	14
CONTRACT NO. 66N37			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

Page 1 of 1

Date 11/28/22

ROUTE FAP 786 (IL 170) DESCRIPTION IL 170 over a stream 0.55 miles South of US 6 LOGGED BY Larry Myers
 SECTION (111)CLV LOCATION SW 1/4, SEC. 1, TWP. 31N, RNG. 5E, 3rd PM.
 COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>050-2540 (Exist.)</u> Station <u>505+65</u>					Surface Water Elev. _____ ft				
BORING NO. <u>2 (NE Quad)</u> Station <u>505+15</u> Offset <u>14.0 ft Lt.</u> Ground Surface Elev. <u>655.68</u> ft	D E P T H (ft)	B L O W S (#/6")	U C S Qu (tsf)	M O I S T (%)	Stream Bed Elev. _____ ft	D E P T H (ft)	B L O W S (#/6")	U C S Qu (tsf)	M O I S T (%)
Augered Bituminous Shoulder, CA 6, and Black Silty Clay Loam Fill 653.18	3				Very Stiff Gray Silty Clay Till (continued)	3			
	3	3.6	19			3	3.6	19	
	3	B				4	B		
	3	3.8	18						
	3	2.5	23			633.68			
	3	P				Hard Gray Silty Clay Till			
Very Stiff Black Silty Clay Loam Fill 648.68	2				Hard Gray Silty Clay Till	3			
	2	4.1	18			3			
	2	B				4	4.1	18	
	2	2.0	25			6	B		
	2	P							
	2	4.0	19			3			
Hard Brown and Gray Silty Clay Loam Till 643.68	3				Hard Brown and Gray Silty Clay Loam Till	3			
	3	4.2	20			3			
	5	B				4	4.1	20	
	3	4.2	19			5	B		
	3	2.0	25						
	3	5	B			3			
Very Stiff Gray Silty Clay Till 619.18	4				Very Stiff Gray Silty Clay Till	3			
	5	4.2	19			3	3.1	19	
	6	B				3	B		
	3	4.2	19						
	3	3.1	18			3			
	3	B				3	3.1	18	
End of Boring	3				End of Boring	3			
	3	3.3	21			3			
	3	B				3	3.3	21	
	3	3.1	18			3	B		
	3	3.1	18						
	3	B				3	4.1	20	
				5	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

Page 1 of 1

Date 11/28/22

ROUTE FAP 786 (IL 170) DESCRIPTION IL 170 over a stream 0.55 miles South of US 6 LOGGED BY Larry Myers
 SECTION (111)CLV LOCATION SW 1/4, SEC. 1, TWP. 31N, RNG. 5E, 3rd PM.
 COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. <u>050-2540 (Exist.)</u> Station <u>505+65</u>					Surface Water Elev. _____ ft				
BORING NO. <u>2 (NE Quad)</u> Station <u>505+15</u> Offset <u>14.0 ft Lt.</u> Ground Surface Elev. <u>655.68</u> ft	D E P T H (ft)	B L O W S (#/6")	U C S Qu (tsf)	M O I S T (%)	Stream Bed Elev. _____ ft	D E P T H (ft)	B L O W S (#/6")	U C S Qu (tsf)	M O I S T (%)
Augered Bituminous Shoulder, CA 6, and Black Silty Clay Loam Fill 653.18	3				Very Stiff Gray Silty Clay Till (continued)	3			
	3	3.6	19			3	3.6	19	
	3	B				4	B		
	3	3.8	18						
	3	2.5	23			633.68			
	3	P				Hard Gray Silty Clay Till			
Very Stiff Black Silty Clay Loam Fill 648.68	2				Hard Gray Silty Clay Till	3			
	2	4.1	18			3			
	2	B				4	4.1	18	
	2	2.0	25			6	B		
	2	P							
	2	4.0	19			3			
Hard Brown and Gray Silty Clay Loam Till 643.68	3				Hard Brown and Gray Silty Clay Loam Till	3			
	3	4.2	20			3			
	5	B				4	4.1	20	
	3	4.2	19			5	B		
	3	2.0	25						
	3	5	B			3			
Very Stiff Gray Silty Clay Till 619.18	4				Very Stiff Gray Silty Clay Till	3			
	5	4.2	19			3	3.1	19	
	6	B				3	B		
	3	4.2	19						
	3	3.1	18			3			
	3	B				3	3.1	18	
End of Boring	3				End of Boring	3			
	3	3.3	21			3			
	3	B				3	3.3	21	
	3	3.1	18			3	B		
	3	3.1	18						
	3	B				3	4.1	20	
				5	B				

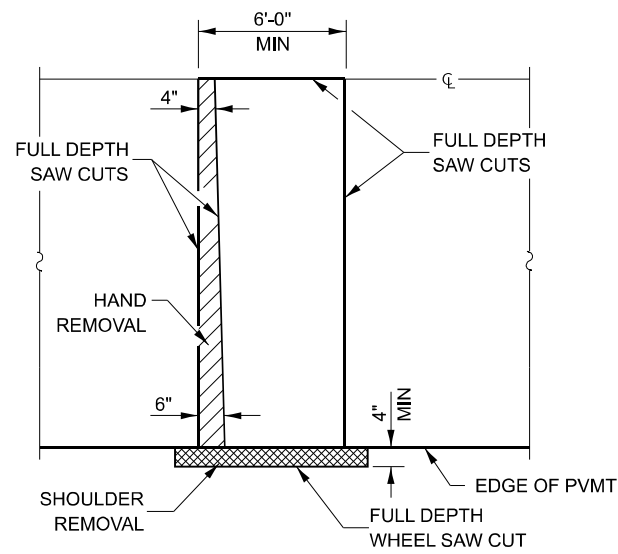
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)

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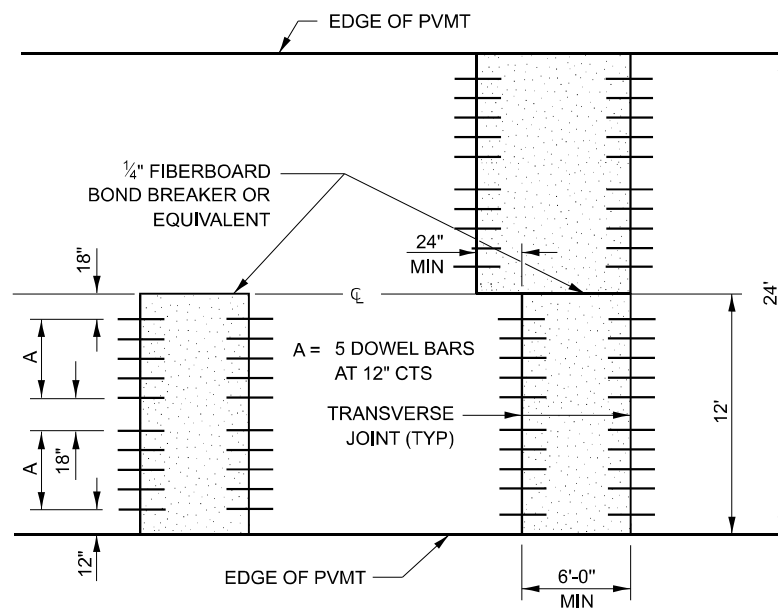
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DRAWN - RW	REVISED -	
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PLOT DATE = 5/17/2023	DATE - 9/26/2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
BORING LOGS STRUCTURE NO. 050-2540	
SCALE: 50	SHEET 6 OF 6 SHEETS
STA. _____	TO STA. _____

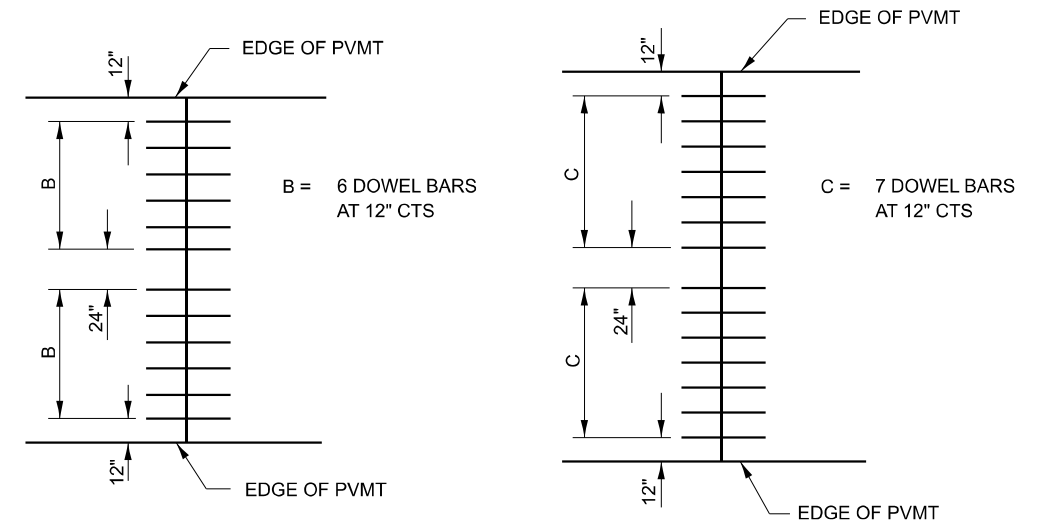
F.A.P. RTE. <u>786</u>	SECTION <u>(111)CLV-2</u>	COUNTY <u>LASALLE</u>	TOTAL SHEETS <u>18</u>	SHEET NO. <u>15</u>
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				



PAVEMENT SAWING DETAIL
(HMA SHOULDER)

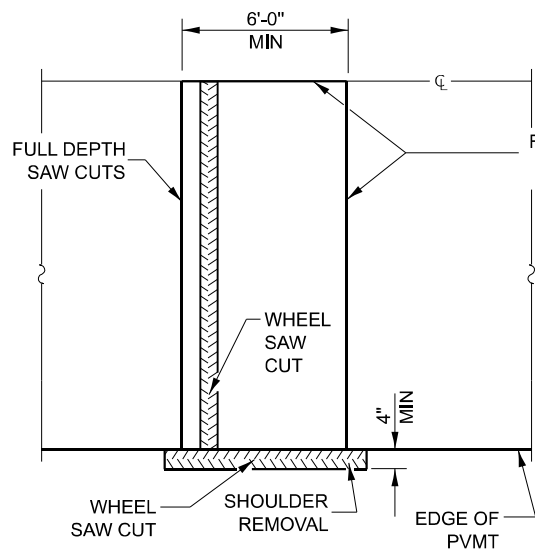


12' WIDE LANES

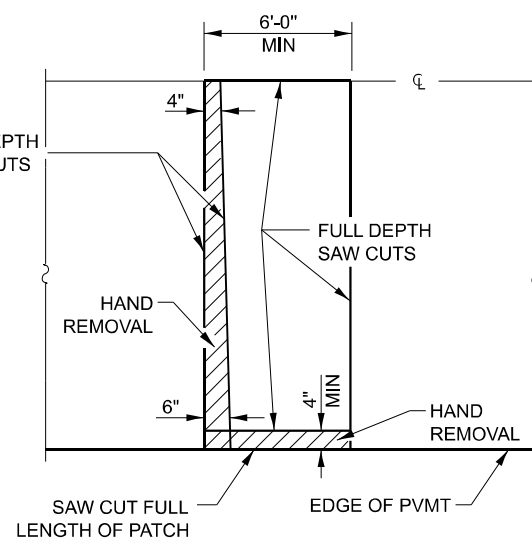


14' WIDE RAMP

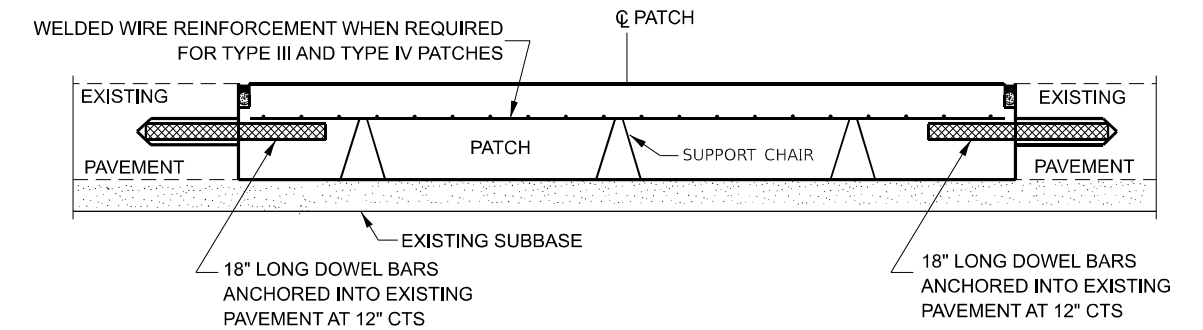
16' WIDE RAMP



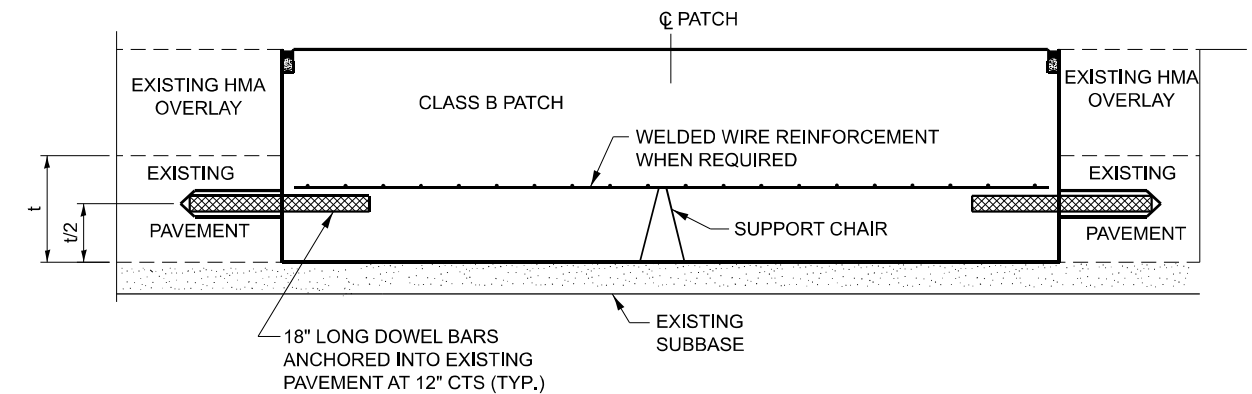
ALTERNATE SAWING DETAIL
(HMA SHOULDER)



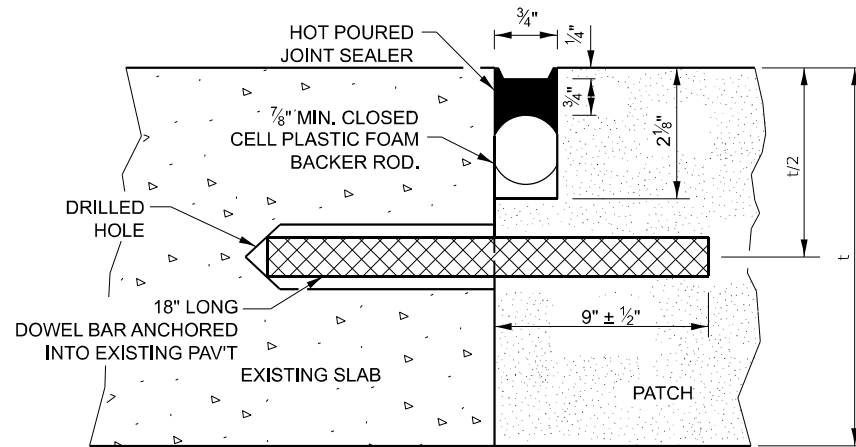
PAVEMENT SAWING DETAIL
(PCC SHOULDER)



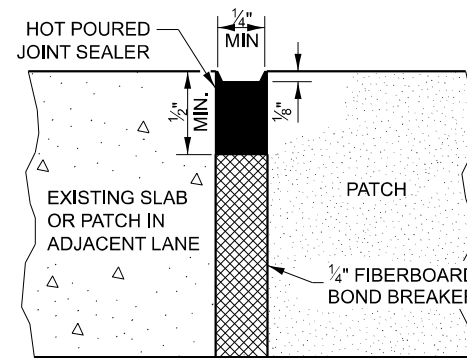
PATCHING WITHOUT HMA OVERLAY



PATCHING WITH HMA OVERLAY



TRANSVERSE JOINT



CENTERLINE JOINT

DOWEL BAR TABLE		
PAVEMENT THICKNESS	DOWEL BAR DIAMETER	HOLE DIAMETER
8" OR GREATER	1 1/2"	1 5/8"
7" THRU 7.99"	1 1/4"	1 3/8"
LESS THAN 7"	1"	1 1/8"

GENERAL NOTES

THE TRANSVERSE JOINTS FOR CLASS B PATCHES SHALL ALIGN WITH JOINTS OR CRACKS IN THE ADJACENT LANE WHENEVER POSSIBLE.

SEE STANDARD 420701 FOR DETAILS OF PAVEMENT WELDED WIRE REINFORCEMENT.

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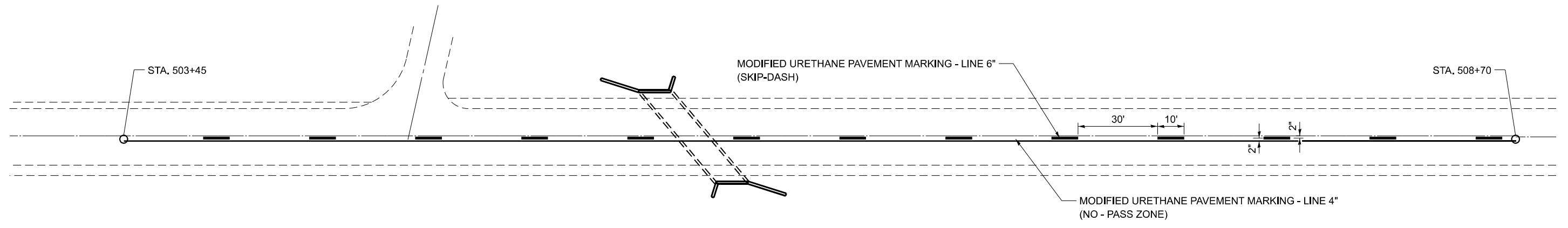
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PLOT DATE = 5/17/2023	CHECKED - YP	REVISED -
	DATE - 9/26/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLASS B PATCHING DETAILS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 786	SECTION (111)CLV-2	COUNTY LASALLE	TOTAL SHEETS 18	SHEET NO. 16
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING

MODEL: D:\draft
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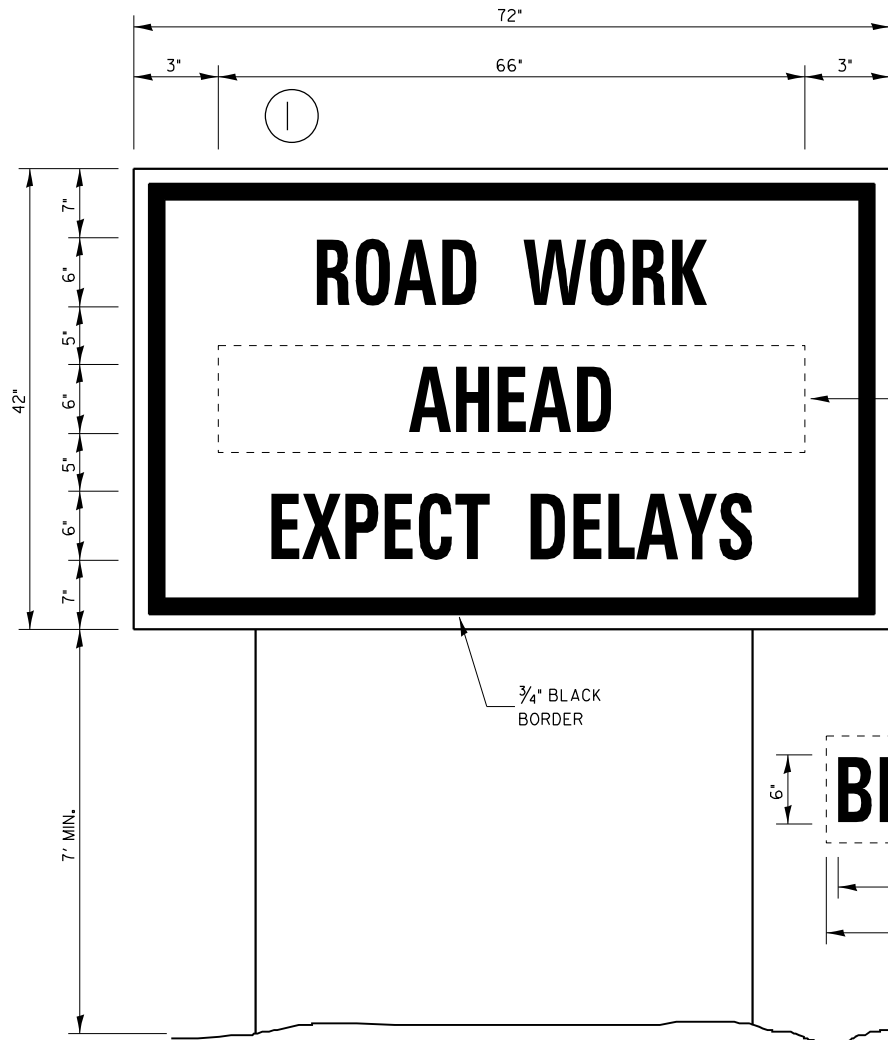
USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 50,000 ' / in.	CHECKED - YP	REVISED -
PLOT DATE = 5/17/2023	DATE - 9/26/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

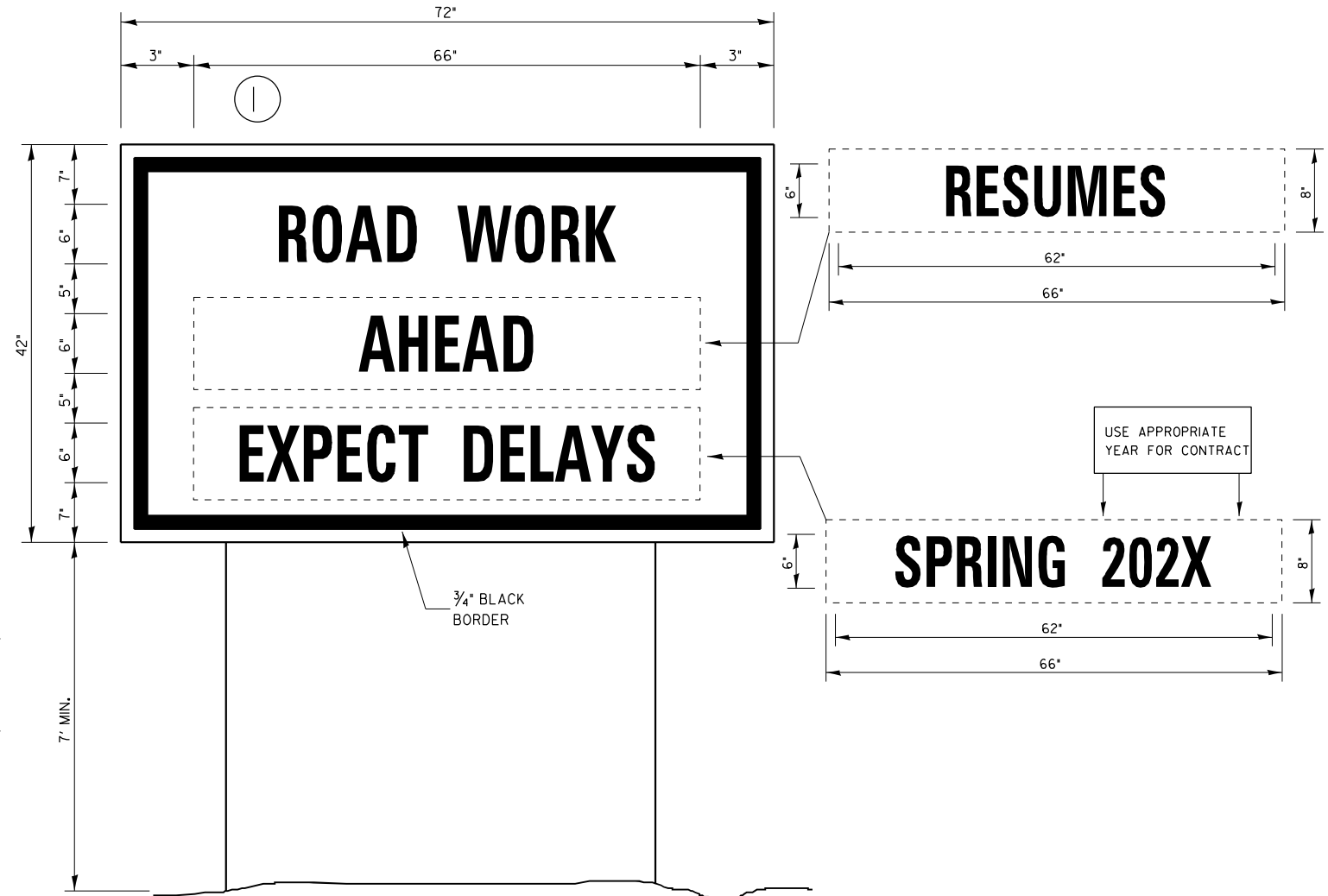
F.A.P. RTE. 786	SECTION (111)CLV-2	COUNTY LASALLE	TOTAL SHEETS 18	SHEET NO. 17
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				



TEMPORARY INFORMATION SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



WINTER SHUT DOWN SIGNING

MODEL: D:\info... FILE NAME: ...

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
DRAWN - RW	CHECKED - YP	REVISED -
PLOT SCALE = 100,000' / in.	DATE - 9/26/2022	REVISED -
PLOT DATE = 5/17/2023		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INFORMATION SIGNING

SCALE: 50 SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	(111)CLV-2	LASALLE	18	18
CONTRACT NO. 66N37				
ILLINOIS FED. AID PROJECT				