F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	1
	ILLINOIS	CONTRACT NO. 78945		

06-16-2023 LETTING ITEM 183

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED HIGHWAY PLANS

FAI ROUTE 57 (I-57)
SECTION (X1–7–1)B–2
PROJECT NHPP–5GCQ(352)
BRIDGE REPLACEMENT OVER I–57
WILLIAMSON COUNTY
C–99–052–22

FOR INDEX OF SHEETS SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES SEE SHEET NOS. 4–9

DESIGN DESIGNATION: N/A

COORDINATE SYSTEM: ILLINOIS COORDINATE SYSTEM, EAST ZONE

D–99–039–22

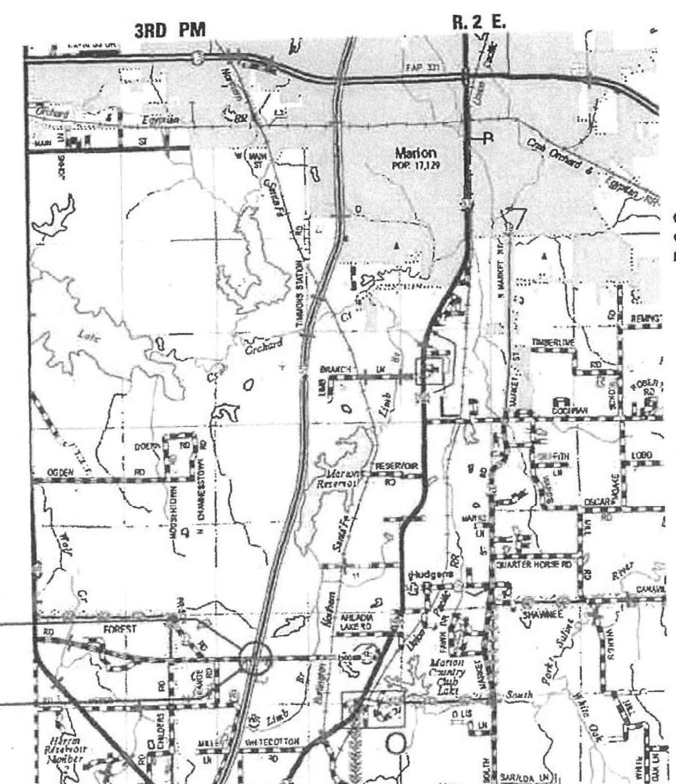
LOCATION OF SECTION INDICATED THUS:–

TRAFFIC DATA

F.A.S. 1900 (C.H. 25)
EXISTING ADT = 1160 (2020)
%SU = 30 (0.3%)
%MU = 10 (0.1%)
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
POSTED SPEED: 55 MPH

FAI – 57
EXISTING ADT = 18,100 SB (2022)
%SU = 500 (2.76%)
%MU = 6,800 (37.57%)
EXISTING ADT = 18,400 NB (2022)
%SU = 600 (3.26%)
%MU = 7,100 (38.59%)
FUNCTIONAL CLASSIFICATION: INTERSTATE
POSTED SPEED: 70 MPH

EXISTING SN 100–0044
℄ STRUCTURE STA. 14 + 46.66
PROPOSED SN 100–0105
℄ STRUCTURE STA. 14 + 46.66
F.A.S. 1900 (C.H. 25) OVER I–57
TWO–SPAN WELDED PLATE GIRDER
BRIDGE WITH INTEGRAL ABUTMENTS
AND A MULTI–COLUMN PIER, 253'–0"
BK.–BK. ABUTMENTS, 35'–2" OUT–OUT
DECK. 12°–52'–45" SKEW RT. FORWARD.



LOCATION MAP
(NOT TO SCALE)

ROADWAY IMPROVEMENT LENGTH = 760.00 FT. = 0.144 MILE
SHOULDER IMPROVEMENT LENGTH = 800.00 FT. = 0.152 MILE

CHRISTOPHER P. KOHLRUS
062-04268
LICENSED PROFESSIONAL ENGINEER OF
STATE OF ILLINOIS

Christopher P. Kohlrus
EXPIRATION: 11/30/2023
3/20/23

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 4 20 23
Kirk H. Brown
REGION FIVE ENGINEER

May 12, 2023
[signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023
Stephen M. Travia
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. - MS

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

PROJECT ENGINEER: GRANT DETERDING

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544–8033
IL. Design Firm No. 184–001939

CONTRACT NO. 78945

PREPARED BY: Charles Stein
DISTRICT STUDIES AND PLANS ENGINEER

EXAMINED BY: _____
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Carrie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: _____
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: Daryl J. Tuttle
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Daryl J. Tuttle
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: Aaron Wayne
DISTRICT MATERIALS ENGINEER

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____	
PLOT DATE = $DATE$	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	2
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

1.) AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

2.) ALL CULVERT EXTENSIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH METHOD II AS SPECIFIED IN ARTICLE 542.05 OF THE STANDARD SPECIFICATIONS. PRIOR TO EXTENDING ANY CULVERT, THE ENTIRE LENGTH OF THE EXISTING CULVERT SHALL BE CLEANED OF ALL EARTH AND DEBRIS. THIS WORK WILL BE PAID ACCORDING TO ARTICLE 109.04.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL AGGREGATE MATERIAL	2.05 TON/CU. YD.
ALL HOT-MIX ASPHALT	2.016 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.

COMMITMENTS

1.) TREES EQUAL TO OR GREATER THAN 3 INCHES IN DIAMETER SHALL NOT BE REMOVED BETWEEN APRIL 1 AND SEPTEMBER 30 OF ANY GIVEN YEAR.

2.) LETTER OF UNDERSTANDING WITH WILLIAMSON COUNTY TO CLOSE C.H. 25 AND REOPEN C.H. 25 BY DECEMBER 1, 2024. THE CLOSURE WILL BE NO LONGER THAN ONE YEAR.

3.) NO FULL I-57 CLOSURES ALLOWED AFTER JULY 1, 2024.

STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
606201-04	TYPE B GUTTER (INLET, OUTLET, AND ENTRANCE)
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
643001-02	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W MORE THAN 15' (4.5M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701426-09	LANE CLOSURE, MULTILANE, INTERMITENT OF MOVING OPERATION FOR SPEEDS > 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-01	PAVEMENT JOINTS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
631011-10	TRAFFIC BARRIER TERMINAL. TYPE 2
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

INDEX OF SHEETS

HMA MIXTURE REQUIREMENTS

LOCATIONS	HMA SURFACE COURSE	HMA BINDER COURSE	HMA SHOULDERS (LOWER LIFT)	HMA SHOULDERS (TOP LIFT)
MIXTURE USES:	HMA SURFACE COURSE, MIX C, N70	HMA BINDER COURSE, IL-9.5FG, N70	HMA BINDER COURSE, IL-19.0, N30	HMA SURFACE COURSE, MIX C, N30
PG	PG64-22	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0%, 70 GYRATION DESIGN	4.0%, 70 GYRATION DESIGN	4.0%, 30 GYRATION DESIGN	4.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-9.5MM	IL-9.5MM FG	IL-19.0L	IL-9.5L
FRICTION AGGREGATE	MIX C	NONE	NONE	MIX C
MIXTURE WEIGHT	112 LBS./SQ. YD./INCH	112 LBS./SQ. YD./INCH	112 LBS./SQ. YD./INCH	112 LBS./SQ. YD./INCH
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE	3000 TONS	3000 TONS	3000 TONS	3000 TONS
MATERIAL TRANSFER DEVICE	NO	NO	NO	NO

LIFT THICKNESS OF 8" SHOULDERS:
1½" SURFACE COURSE
2½" BINDER COURSE
4" BINDER COURSE

REV. - MS

MODEL: $MODELNAME$
FILE NAME: $FILE1$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$ | PLOT SCALE = $SCALE$ | PLOT DATE = $DATE$

DESIGNED - _____ | DRAWN - _____ | CHECKED - _____ | DATE - _____

REVISED - _____ | REVISED - _____ | REVISED - _____ | REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, COMMITMENTS & PROJECT SPECIFIC NOTES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	3
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 90% FED 10% STATE BRIDGE 0010 100-0105
20100500	TREE REMOVAL, ACRES	ACRE	0.75	0.75
20200100	EARTH EXCAVATION	CU YD	676	676
20400800	FURNISHED EXCAVATION	CU YD	3711	3711
20900110	POROUS GRANULAR BACKFILL	CU YD	43	43
25000210	SEEDING, CLASS 2A	ACRE	2.25	2.25
25000350	SEEDING, CLASS 7	ACRE	2.25	2.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	203	203
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	203	203
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	203	203
25000700	AGRICULTURAL GROUND LIMESTONE	TON	4.5	4.5
25100115	MULCH, METHOD 2	ACRE	2.25	2.25
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	4521	4521
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	225	225
28000305	TEMPORARY DITCH CHECKS	FOOT	8	8

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____	
PLOT DATE = $DATE$	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 1 OF 6 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	4
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 90% FED 10% STATE BRIDGE 0010 100-0105
28000400	PERIMETER EROSION BARRIER	FOOT	1084	1084
28100207	STONE RIPRAP, CLASS A4	TON	10	10
28200200	FILTER FABRIC	SQ YD	195	195
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	713	713
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	91	91
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	331	331
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	86	86
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	150	150
44000100	PAVEMENT REMOVAL	SQ YD	268	268
44004000	PAVED DITCH REMOVAL	FOOT	10	10
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	752	752
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2
50105220	PIPE CULVERT REMOVAL	FOOT	86	86

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 2 OF 6 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	5
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 90% FED 10% STATE BRIDGE 0010 100-0105
50157300	PROTECTIVE SHIELD	SQ YD	534	534
50200100	STRUCTURE EXCAVATION	CU YD	420	420
50300225	CONCRETE STRUCTURES	CU YD	149.6	149.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	356.0	356.0
50300260	BRIDGE DECK GROOVING	SQ YD	1037	1037
50300300	PROTECTIVE COAT	SQ YD	1377	1377
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	95.3	95.3
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	4572	4572
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	152750	152750
51100100	SLOPE WALL 4 INCH	SQ YD	338	338
51201900	FURNISHING STEEL PILES HP14X89	FOOT	1765	1765
51202305	DRIVING PILES	FOOT	1765	1765
51203900	TEST PILE STEEL HP14X89	EACH	3	3

REV. - MS

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 3 OF 6 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	6
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 90% FED 10% STATE BRIDGE 0010 100-0105
51204650	PILE SHOES	EACH	28	28
51500100	NAME PLATES	EACH	1	1
52100520	ANCHOR BOLTS, 1"	EACH	24	24
52100540	ANCHOR BOLTS, 1 1/2"	EACH	12	12
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	55.1	55.1
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	10	10
542A1921	PIPE CULVERTS, CLASS A, TYPE 3 36"	FOOT	110	110
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2	2
54248510	CONCRETE COLLAR	CU YD	0.7	0.7
55201300	STORM SEWERS JACKED IN PLACE, 36"	FOOT	110	110
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	191	191
58700300	CONCRETE SEALER	SQ FT	545	545
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	134	134
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	141	141
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	7.0	7.0

REV. - MS

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 4 OF 6 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	7
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 90% FED 10% STATE BRIDGE 0010 100-0105
	60602800	CONCRETE GUTTER, TYPE B	FOOT	44	44
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200	200
*	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	750	750
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
	63200310	GUARDRAIL REMOVAL	FOOT	1244	1244
	64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	64301090	ATTENUATOR BASE	SQ YD	56	56
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18
	67100100	MOBILIZATION	L SUM	1	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
	70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	20
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	649	649

* SPECIALTY ITEM

REV. - MS

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 5 OF 6 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	8
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 90% FED 10% STATE BRIDGE 0010 100-0105
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1050	1050
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
	73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	1	1
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3200	3200
*	78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	42	42
	X6430130	REMOVE IMPACT ATTENUATORS, STATE OWNED	EACH	2	2
	X1700119	CONCRETE FINISH	L SUM	1	1
	X2200028	SPECIAL - CONCRETE MISCELLANEOUS AESTHETIC TREATMENT	L SUM	1	1
	X2503100	MOWING	UNIT	29	29
	X6431110	REMOVE ATTENUATOR BASE	EACH	2	2
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	Z0022800	FENCE REMOVAL	FOOT	144	144
Ø	Z0076600	TRAINEES	HOUR	1000	1000
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000

* SPECIALTY ITEM

Ø 0042

REV. - MS

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

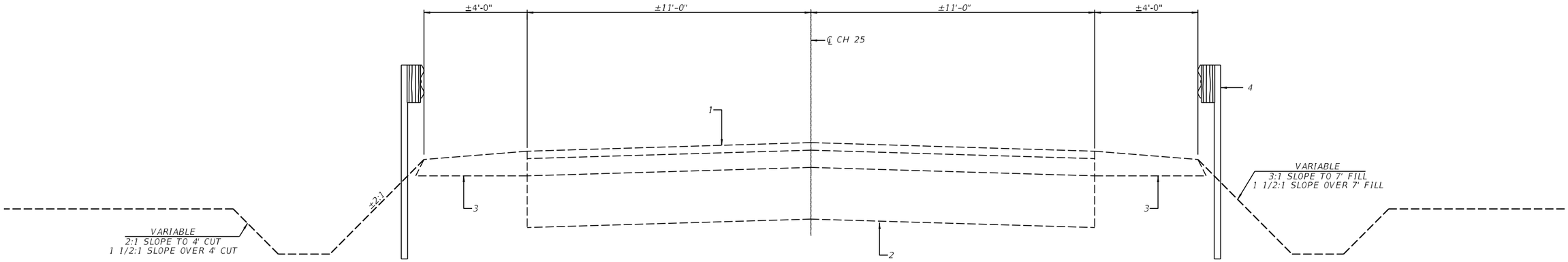
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 6 OF 6 SHEETS | STA. _____ | TO STA. _____

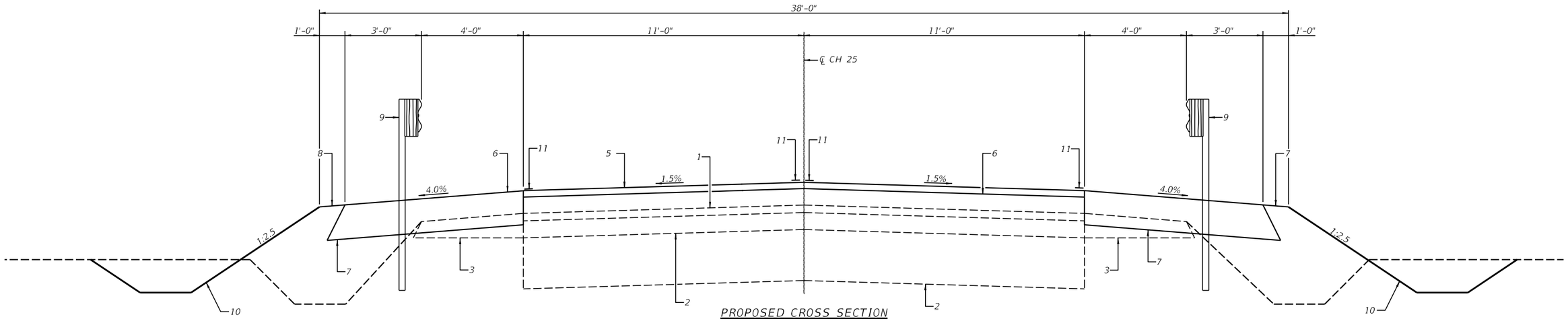
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	9
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



EXISTING CROSS SECTION

(STA. 10+80 TO STA. 18+40)

(BRIDGE OMISSION – STA. 13+28.62 TO STA. 15+70.37)



PROPOSED CROSS SECTION

(STA. 10+80 TO STA. 12+93 & STA. 16+06 TO STA. 18+40)

PAVEMENT LEGEND

1 - EXIST. HMA OVERLAYS
2 - EXIST. AGGREGATE BASE ±9"
3 - EXIST. EARTH/AGGREGATE SHOULDER
4 - EXIST GUARDRAIL
5 - PROP. HMA SURFACE COURSE 1 1/2"
6 - PROP. HMA BINDER COURSE (VARIABLE DEPTH 1 1/4" MIN.)
7 - PROP. HMA SHOULDER 8"
8 - PROP. EARTH SHOULDER
9 - PROP. GUARDRAIL
10 - PROP. HEAVY DUTY EROSION CONTROL BLANKET
11 - PROP. PAINT PAVEMENT MARKING - LINE 4"

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

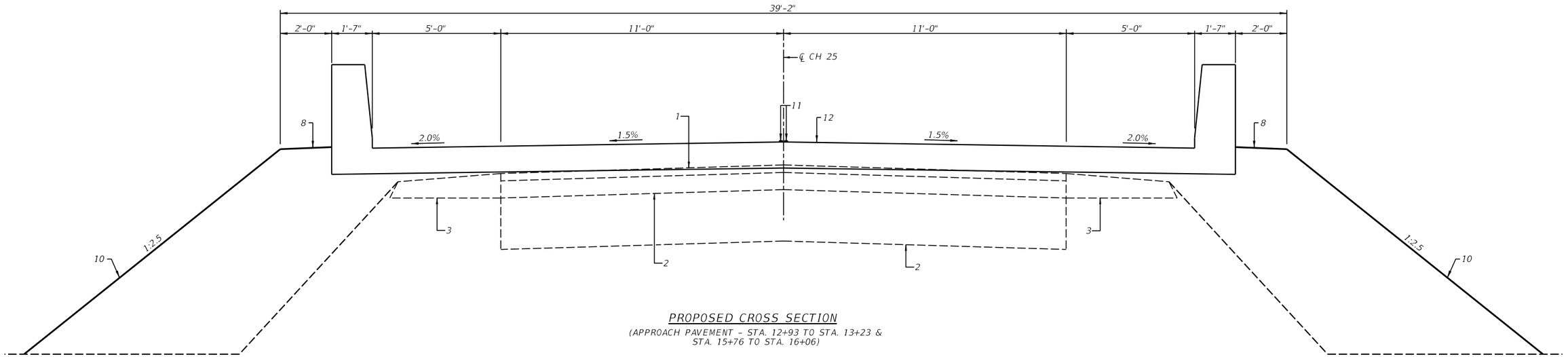
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL ROADWAY SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	10
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



PROPOSED CROSS SECTION

(APPROACH PAVEMENT – STA. 12+93 TO STA. 13+23 & STA. 15+76 TO STA. 16+06)

PAVEMENT LEGEND

1 - EXIST. HMA OVERLAYS
2 - EXIST. AGGREGATE BASE ±9"
3 - EXIST. EARTH/AGGREGATE SHOULDER
4 - EXIST. GUARDRAIL
5 - PROP. HMA SURFACE COURSE 1 1/2"
6 - PROP. HMA BINDER COURSE (VARIABLE DEPTH 1 1/4" MIN.)
7 - PROP. HMA SHOULDER 8"
8 - PROP. EARTH SHOULDER
9 - PROP. GUARDRAIL
10 - PROP. HEAVY DUTY EROSION CONTROL BLANKET
11 - PROP. PAINT PAVEMENT MARKING - LINE 4"
12 - PROP. PCC APPROACH PAVEMENT

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL ROADWAY SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	11
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

EARTHWORK

LOCATION	EARTH EXCAVATION	ADJUSTED SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	REMARKS
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
	CU. YD.	%	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	
CH 25								
STA. 10+55 TO STA. 13+23	57	25	43	2473	0	0	2430	
STA. 15+76 TO STA. 18+65.5	0	25	0	1415	0	0	1415	
SLOPEWALL UNDERNEATH STRUCTURE (EAST SIDE)	86	25	64	0	0	64	-64	
SLOPEWALL UNDERNEATH STRUCTURE (WEST SIDE)	93	25	70	0	0	70	-70	
I-57								
STA. 262+00 TO STA. 264+50 RETAINING WALL RT.	225	25	169	45	0	124*	0	
STA. 260+25 TO STA. 265+50 IN MEDIAN	215	25	161	250	89*	0	0	
TOTAL	676						3,711	

NOTE: DISPOSAL OF EXCESS EARTH EXCAVATION ON I-57 WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

PERMANENT SEEDING

LOCATION	SEEDING CLASS 2A	NITROGEN FERT. NUT.	PHOSPHORUS FERT. NUT.	POTASSIUM FERT. NUT.	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2	HEAVY DUTY EROSION CONTROL BLANKET
	ACRE	POUND	POUND	POUND	TON	ACRE	SQUARE YARD
STA. 10+55 TO STA. 13+65 18' LT. TO 75' LT.	0.37	33	33	33	0.74	0.37	1455
STA. 10+55 TO STA. 13+65 18' RT. TO 72' RT.	0.35	31	31	31	0.70	0.35	1331
STA. 15+28 18' LT. TO 75' LT. TO STA. 18+55 50' LT. TO 18' LT.	0.31	28	28	28	0.62	0.31	938
STA. 15+28 TO STA. 18+55 18' RT. TO 60' RT.	0.28	25	25	25	0.56	0.28	797
I-57						0.00	
STA. 258+00 TO STA. 267+50 (IN MEDIAN)	0.96	86	86	86	1.92	0.96	
TOTAL	2.27	203	203	203	4.5	2.27	4521

USE 2.25 ACRE USE 2.25 ACRE

HMA RESURFACING SCHEDULE

LOCATION	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX"C", N70
	SQ. YD.	POUND	TON	TON
STA. 10+80 TO STA. 10+93	30			
STA. 18+20 TO STA. 18+40	61			
STA. 10+80 TO STA. 12+74 (INCLUDES 3 APPLICATIONS FOG COAT)		421	243	41
STA. 16+25 TO STA. 18+40 (INCLUDES FOG COAT)		292	88	45
TOTAL	91	713	331	86

PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB

	PAVEMENT CONNECTOR BRIDGE APPROACH SLAB
	SQ. YD.
STA. 12+74 TO STA. 12+93	75
STA. 16+06 TO STA. 16+25	75
TOTAL	150

PAVEMENT REMOVAL

LOCATION	PAVEMENT REMOVAL
	SQ. YD.
STA. 12+74 TO STA. 13+28.62	134
STA. 15+70.37 TO STA. 16+25	134
TOTAL	268

TEMPORARY EROSION CONTROL ITEMS

LOCATION	SEEDING, CLASS 7	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
	ACRE	POUND	FOOT	FOOT
STA. 10+55 TO STA. 13+65 18' LT. TO 75' LT.	0.37	37		
STA. 10+55 TO STA. 13+65 18' RT. TO 72' RT.	0.35	35		
STA. 15+28 18' LT. TO 75' LT. TO STA. 18+55 50' LT. TO 18' LT.	0.31	31		
STA. 15+28 TO STA. 18+55 18' RT. TO 60' RT.	0.28	28		
STA. 11+50 58' RT.			8	
STA. 10+55 75' LT. TO STA. 13+20 75' LT.				265
STA. 10+55 72' RT. TO STA. 13+20 72' RT.				265
STA. 15+80 75' LT. TO STA. 16+50 75' LT.				70
STA. 16+50 75' LT. TO STA. 18+55 55' LT.				207
STA. 15+80 65' RT. TO STA. 17+00 65' RT.				120
STA. 17+00 65' RT. TO STA. 18+55 65' RT.				157
I-57 UNDERNEATH STRUCTURE				
STA. 258+00 TO STA. 267+50 (IN MEDIAN)	0.96	96		
TOTAL	2.27	227	8	1084

USE 2.25 AC PER BD USE 225 POUNDS

HOT-MIX ASPHALT SHOULDERS, 8"

LOCATION	HOT-MIX ASPHALT SHOULDERS
	SQ. YD.
STA. 10+55 TO STA. 12+95.5 LT.	185
STA. 10+55 TO STA. 12+90.5 RT.	181
STA. 16+03.5 TO STA. 18+55 RT.	196
STA. 16+08.5 TO STA. 18+55 LT.	190
TOTAL	752

TREE REMOVAL, ACRE

LOCATION	TREE REMOVAL, ACRE
	ACRE
STA. 10+55 20' RT. TO STA.12+10 70' RT. TO STA. 12+97 20' RT.	0.26
STA. 10+55 20' LT. TO STA.12+75 45' LT. TO STA. 13+07 22' LT.	0.16
STA. 15+94 26' RT. TO STA. 16+43 60' RT.	0.04
STA. 15+90 22' LT. TO STA. 18+65 43' RT. TO 20' RT.	0.20
TOTAL	0.66

USE 0.75 ACRE PER BDE

FENCE REMOVAL

LOCATION	FENCE REMOVAL
	FOOT
STA. 7+26 75'RT. TO STA. 12+79 39' RT.	64
STA. 15+73 17' RT. TO STA.16+28 75' RT.	80
TOTAL	144

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE: _____ | SHEET 1 OF 3 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	12
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			

STEEL RAILING AND GUARDRAIL SCHEDULE

LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	STEEL PLATE BEAM GUARDRAIL 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 2	TERMINAL MARKER – DIRECT APPLIED	GUARDRAIL REMOVAL
	EACH	FOOT	EACH	FOOT	EACH	EACH	FOOT
C.H. 25							
STA. 10+55 TO STA. 12+67.4 RT.		212.5					
STA. 12+67.4 TO STA. 13+04.4 RT.			1				
STA. 10+49.8 TO STA. 12+74.8 LT.		225					
STA. 12+74.8 TO STA. 13+11.7 LT.			1				
STA. 15+87.3 TO STA. 16+24.2 RT.			1				
STA. 16+24.2 TO STA. 17+86.7 RT.		162.5					
STA. 17+86.7 TO STA. 18+36.7 RT.	1						
STA. 15+94.7 TO STA. 16+31.6 LT.			1				
STA. 16+31.6 TO STA. 17+81.6 LT.		150					
STA. 17+81.6 TO STA. 18+31.6 LT.	1						
STA. 18+36.7 RT.						1	
STA. 18+31.6 LT.						1	
STA. 10+55 TO STA. 13+62 RT.							307
STA. 10+50 TO STA. 13+70 LT.							320
STA. 15+24 TO STA. 18+33 RT.							309
STA. 15+31 TO STA. 17+89 LT.							258
I-57							
STA. 262+32 TO STA. 262+57 SOUTHBOUND							25
STA. 263+08 TO STA. 263+33 NORTHBOUND							25
STA. 262+ 32 TO STA. 263+19.5 SOUTHBOUND				87.5			
STA. 262+20.5 TO STA. 263+33 NORTHBOUND				112.5			
STA. 263+19.5 TO STA. 263+32 SOUTHBOUND					1		
STA. 262+08 TO STA. 262+20.5 NORTHBOUND					1		
STA. 262+08						1	
STA. 263+57						1	
TOTAL	2	750	4	200	2	4	1244

PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING – LINE 4"		
	30' SKIP 10' DASH (YELLOW)	CENTERLINE NO PASSING (YELLOW)	EDGE LINE (WHITE)
	FOOT	FOOT	FOOT
C.H. 25			
STA. 10+55 TO STA. 18+55 LT. & RT.		1600	1600
SUBTOTAL	0	1600	1600
TOTAL	3200		

CONCRETE BARRIER

LOCATION	TEMPORARY CONCRETE BARRIER	BARRIER WALL REFLECTORS, TYPE C
	FOOT	EACH
STA. 258+94 TO STA. 263+44 34' RT. SOUTHBOUND	550	23
STA. 262+18.5 TO STA. 266+68.5 34' LT. NORTHBOUND	450	19
STA. 262+23 TO STA. 262+48 74' LT. NORTHBOUND	25	
STA. 263+16 TO STA. 263+41 74' RT. SOUTHBOUND	25	
TOTAL	1050	42

MOWING

LOCATION	MOWING
	UNIT
STA. 258+00 TO STA. 267+50 (3 APPLICATIONS IN MEDIAN)	29
TOTAL	29

IMPACT ATTENUATORS

LOCATION	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3	IMPACT ATTENUATORS (NON- REDIRECTIVE) TEST LEVEL 3	REMOVE IMPACT ATTENUATORS, STATE OWNED	REMOVE ATTENUATOR BASE	ATTENUATOR BASE
				EACH	SQ. YD.
I-57					
STA. 258+61.4 TO STA. 258+94 34' RT. SOUTHBOUND	1				
STA. 266+68.5 TO STA. 267+01.1 34' LT. NORTHBOUND	1				
STA. 262+31.3 TO STA. 262+63.9 @ CENTERLINE		1			28
STA. 263+00 TO STA. 263+32.6 @ CENTERLINE		1			28
STA. 262+19 TO STA. 262+62 @ CENTERLINE			1	1	
STA. 263+00 TO STA. 263+43 @ CENTERLINE			1	1	
STA. 258+67.4 TO STA. 259+00 58' RT. SOUTHBOUND					
STA. 266+50 TO STA. 266+82.6 58' LT. NORTHBOUND					
TOTAL	2	2	2	2	56

CHANGEABLE MESSAGE SIGN

LOCATION	CHANGEABLE MESSAGE SIGN
	CAL. DAY
5 MESSAGE BOARDS FOR TWO WEEKS PRIOR TO CLOSING GRASSY ROAD ON IL 148 & IL 37	70
12 MESSAGE BOARDS FOR THE 3 SHUTDOWNS OF I-57 FOR 14 DAYS PRIOR TO AND DAY OF CLOSING I-57*	540
13 ADDITIONAL MESSAGE BOARDS FOR THE 3 SHUTDOWNS OF I-57 ON DAY OF CLOSURE OF I-57*	39
TOTAL	649

* THE FINAL LOCATION OF THE MESSAGE BOARDS ON I-57 WILL BE DETERMINED BY THE ENGINEER.

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE: _____ | SHEET 2 OF 3 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	13
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

PIPE CULVERTS, CLASS A & PRECAST REINFORCED CONCRETE FLARED END SECTIONS

LOCATION	PIPE CULVERTS CLASS A TYPE 1 36"	PIPE CULVERTS CLASS A TYPE 3 36"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS
	FOOT	EACH	EACH
STA. 262+97 89' LT. TO STA. 263+07 89' LT.	10		
STA. 262+ 50 89' RT. TO STA. 263+60 108' RT.		110	
STA. 262+50 109' RT. & 263+60 89' RT.			2
TOTAL	10	110	2

STONE RIPRAP, CLASS A4 & FILTER FABRIC

LOCATION	STONE RIPRAP, CLASS A4	FILTER FABRIC
	TON	SQ. YD.
STA. 262+51 109' RT.	5	7
STA. 263+60 109' RT.	5	7
BACK FACE RETAINING WALL		181
TOTAL	10	195

STORM SEWERS JACKED IN PLACE, 36"

LOCATION	STORM SEWERS JACKED IN PLACE
	FOOT
STA. 262+50 89' RT. TO STA. 263+60 108' RT.	110
TOTAL	110

CONCRETE HEADWALL AND PIPE CULVERT REMOVAL

LOCATION	CONCRETE HEADWALL REMOVAL	PIPE CULVERT REMOVAL
	EACH	EACH
STA. 262+60 89' RT.	1	
STA. 262+46 89' RT.	1	
STA. 262+60 TO STA. 263+46 89' RT.		86
TOTAL	2	86

CLASS SI CONCRETE (OUTLET)

LOCATION	CLASS SI CONCRETE
	CU. YD.
STA. 262+44 TO STA. 262+79 RT.	2.8
STA. 263+23 TO STA. 263+64 RT.	4.2
TOTAL	7.0

CONCRETE GUTTER TYPE B

LOCATION	CONCRETE GUTTER
	FOOT
STA. 262+79 TO STA. 263+23 RT.	44
TOTAL	44

PAVED DITCH REMOVAL

LOCATION	PAVED DITCH REMOVAL
	FOOT
STA. 262+97 89' LT. TO STA. 263+07 89' RT.	10
TOTAL	10

CONCRETE COLLAR

LOCATION	CONCRETE COLLAR
	CU. YD.
STA. 262+97 89' LT. PER DISTRICT STD. 9-79	0.7
TOTAL	0.7

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

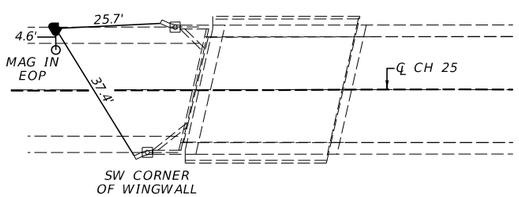
USER NAME = $USER$	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____	
PLOT DATE = $DATE$	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE: _____ | SHEET 3 OF 3 SHEETS | STA. _____ | TO STA. _____

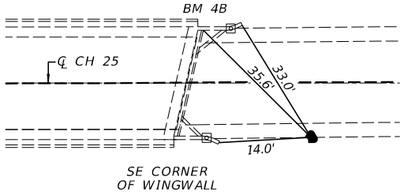
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	14
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



N

CONTROL POINT #100445

#5 REBAR WITH IDOT CAP
15.25' RT STA. 16+05
N 351273.497
E 791380.468



N

CONTROL POINT #100444

#5 REBAR WITH IDOT CAP
15.25' LT STA. 13+07
N 357869.914
E 797941.823

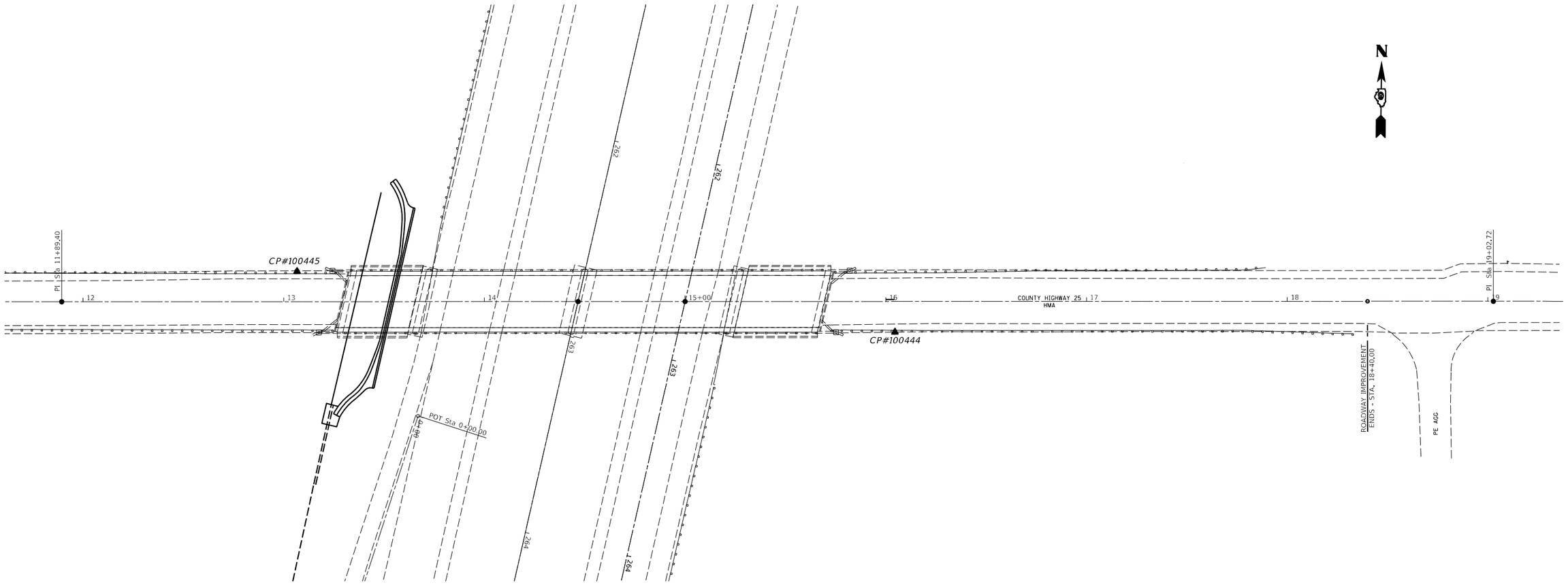
BENCHMARKS

N

BM4 - SQUARECUT ON CENTER PIER OF SN 100-0044
52' RT STA. 262+82

BM4A - SQUARECUT ON SOUTH END OF CONCRETE GAURD WALL, SOUTH OF EAST PIER, EAST OF I-57 NB LANES SN 100-0044
23.5' LT STA. 263+07

BM4B - SQUARECUT AT SW CONRNER OF WEST ABUTMENT OF SN 100-0044
16' LT STA. 15+85



PLAN

0 50 100
SCALE: 1" = 50'

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

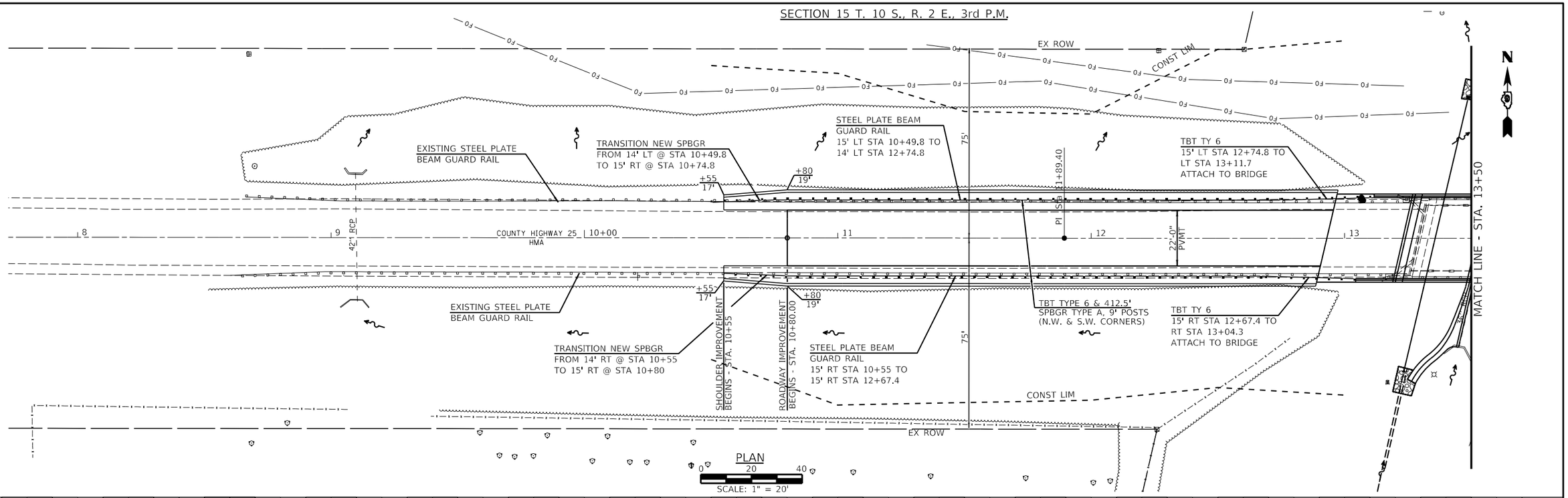
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES & BENCHMARKS

SCALE: 1" = 30' | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	15
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

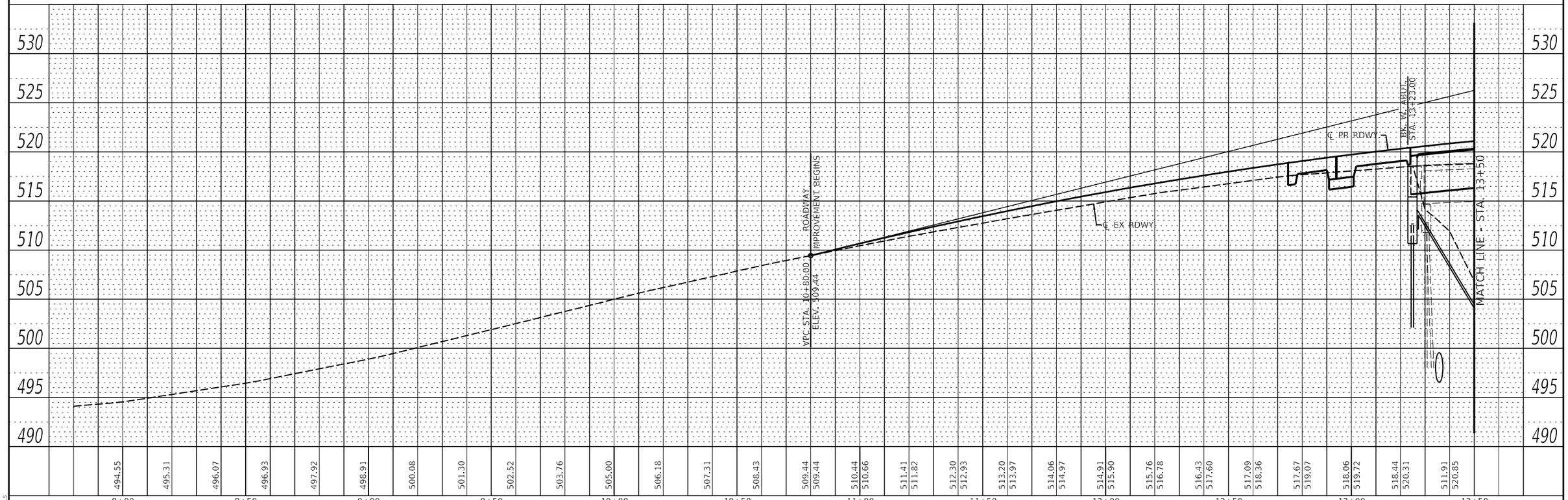
SECTION 15 T. 10 S., R. 2 E., 3rd P.M.



PLAN

0 20 40

SCALE: 1" = 20'



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.O.W. CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.O.W. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

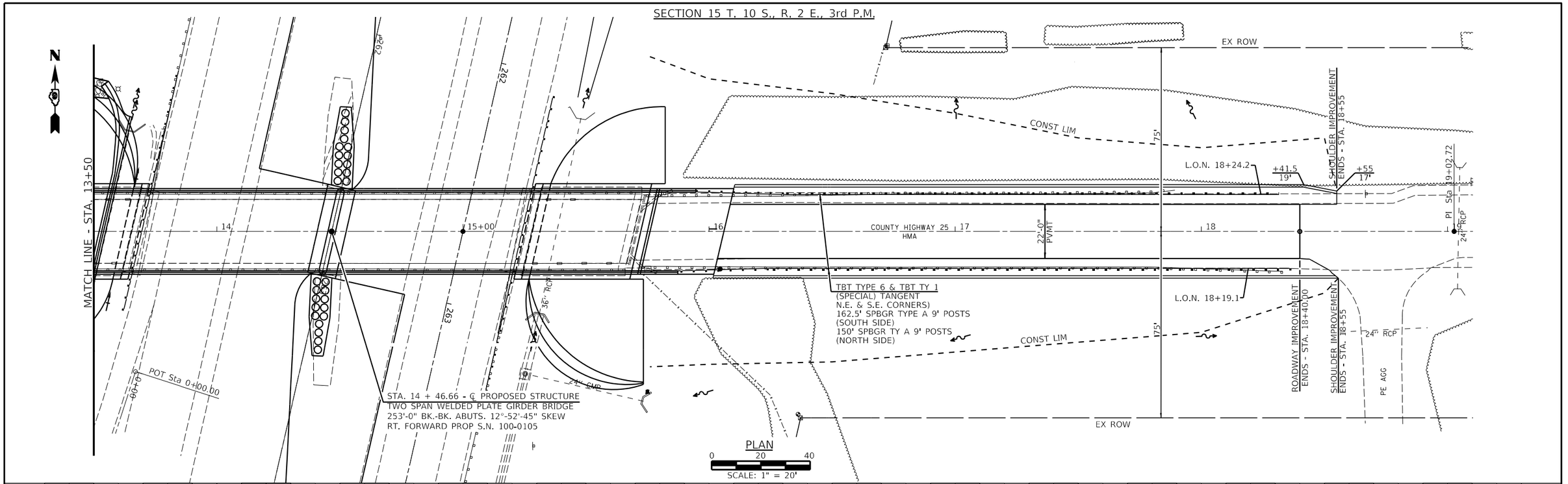
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	16
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

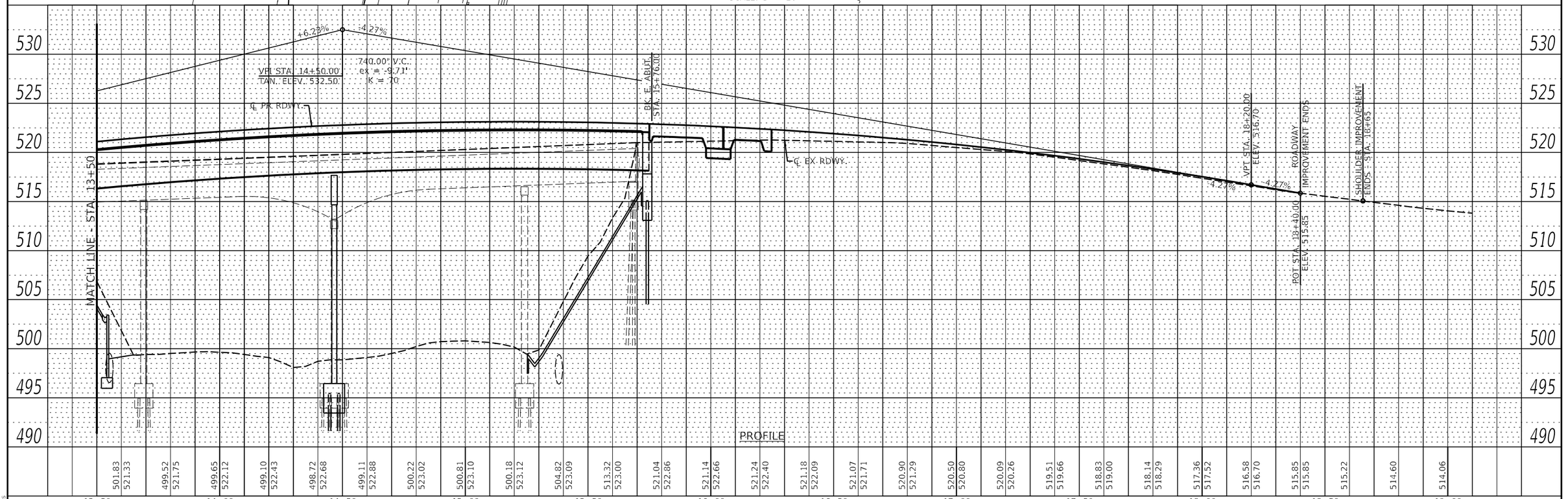
SECTION 15 T. 10 S., R. 2 E., 3rd P.M.



PLAN

0 20 40

SCALE: 1" = 20'



PLAN: SURVEYED, PLOTTED, CHECKED, R/W UNIT CHECKED, R/L OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, CHECKED, R.L. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

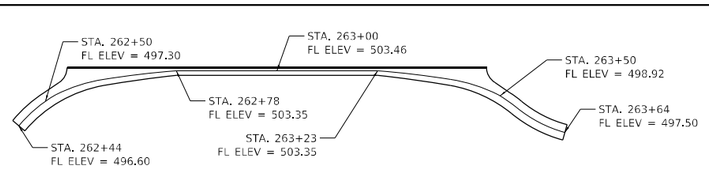
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

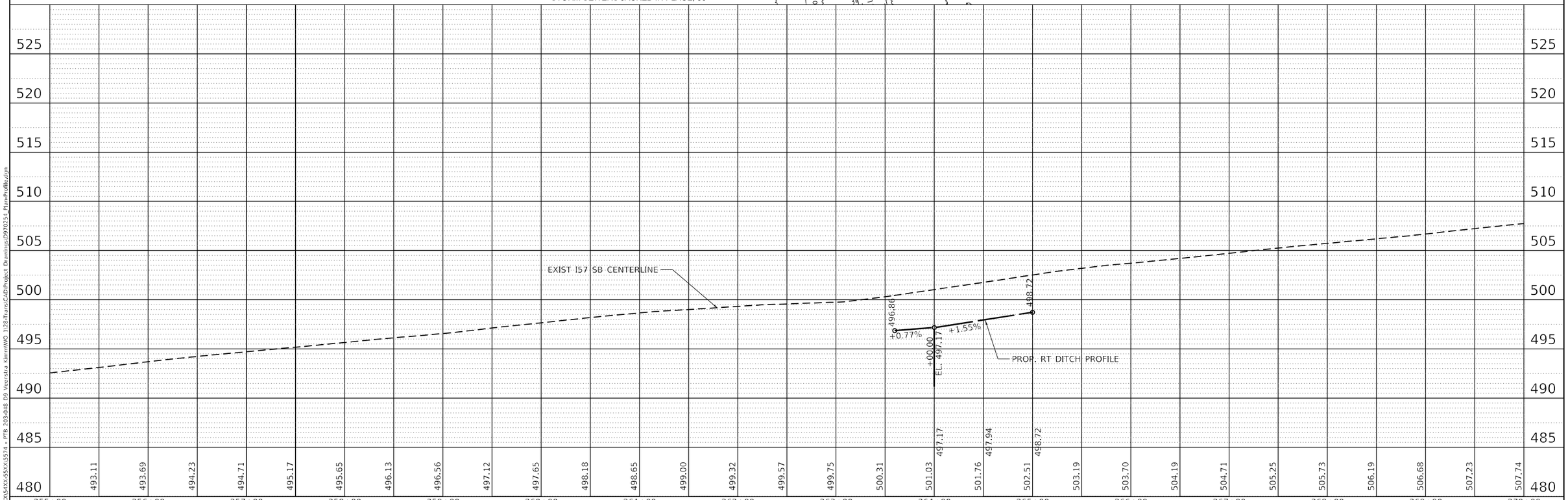
PLAN & PROFILE

SCALE: 1" = 20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	96	17
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			



GUTTER DETAIL



PLAN
SURVEYED
PLOTTED
CROSS CHECKED
BM. NOTED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
BM. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.

MODEL: Default
FILE NAME: P:\SXXX\54XX-55XX\5574 - PTB 203-048 09 Veersta Kimm\WO 1128-Trans\CAD\Project Drawings\D970254_Plan+Profile.dgn

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

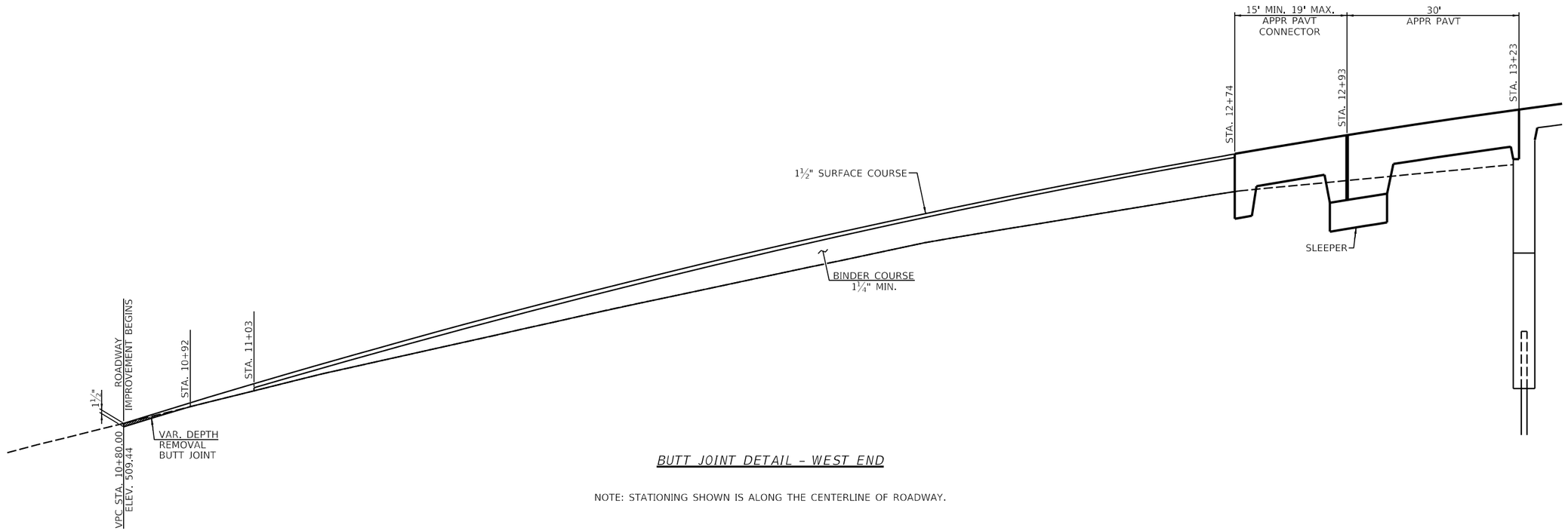
USER NAME=anfland	DESIGNED - RLH	REVISED -
	DRAWN - DMM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 3/14/2023	DATE - 3/14/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I57 PLAN AND PROFILE

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 255+00 | TO STA. 270+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-7-1)B2	WILLIAMSON	98	18
		CONTRACT# 78945		
	ILLINOIS FED. AID PROJECT			



BUTT JOINT DETAIL - WEST END

NOTE: STATIONING SHOWN IS ALONG THE CENTERLINE OF ROADWAY.

BUTT JOINT DETAIL - EAST END

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

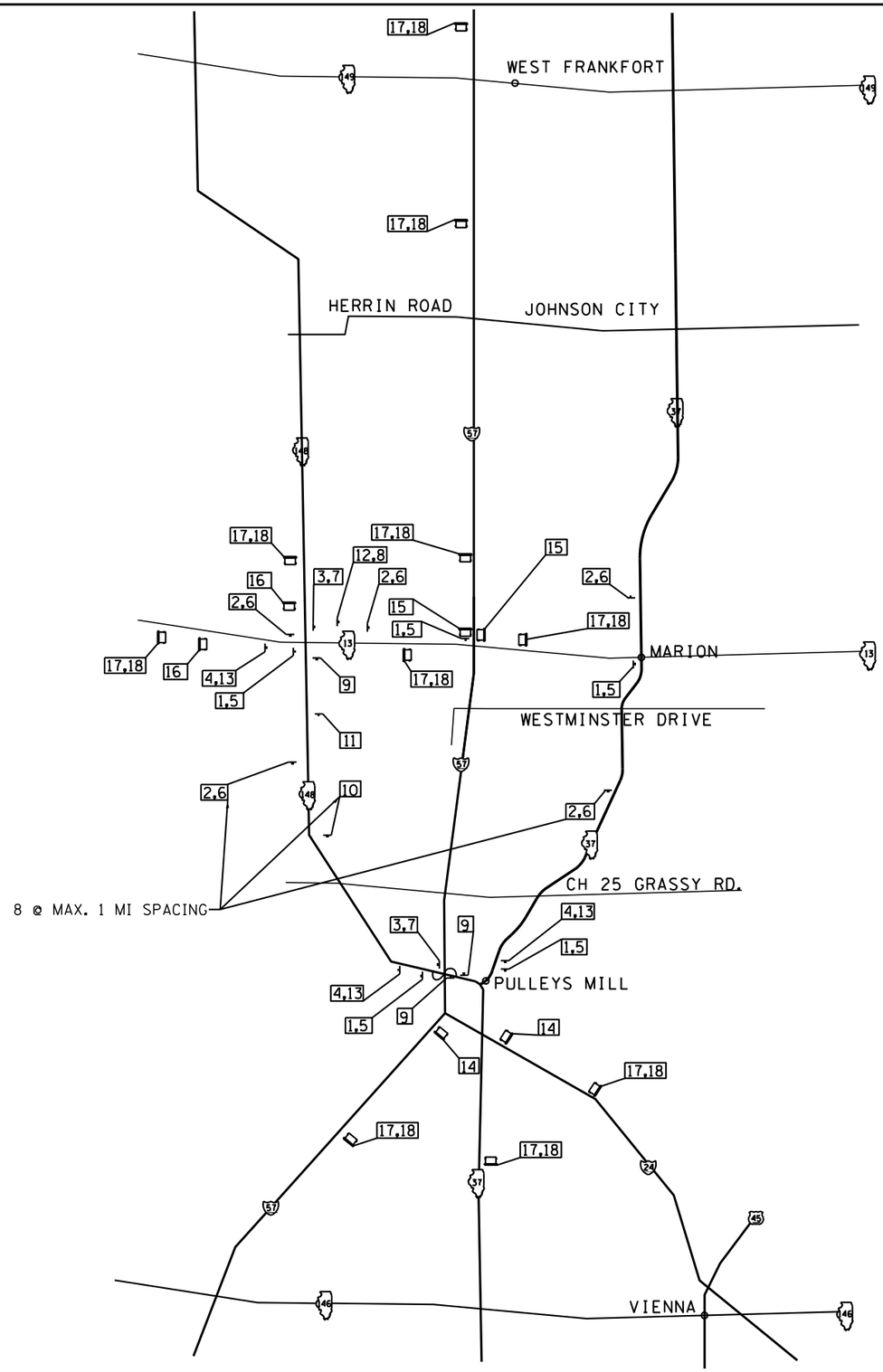
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT DETAILS

SCALE: 1" = 30' | SHEET ___ OF ___ SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	19
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



N

3 PROPOSED SIGN

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-57 TEMPORARY CLOSURE
DETOUR PLAN

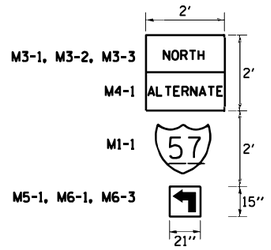
SCALE: _____ | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	20
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

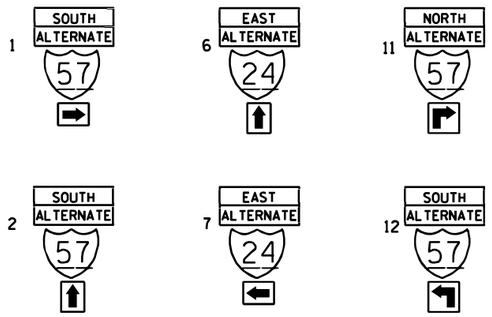
3 PROPOSED SIGN

PLACE PROPOSED SIGN WITHIN 200' OF THE EXISTING SIGN IN RURAL AREAS. FOR PROPOSED SIGNS IN CITY LIMITS, THE SIGNS SHALL BE PLACED SO THEY DO NOT INTERFERE WITH EXISTING SIGNS AND AS DIRECTED BY THE ENGINEER.

SIGN DETAIL



NOTES:
1. THE POSTS SHALL BE PLACED 12 FEET FROM THE EDGE OF PAVEMENT AS DIRECTED BY THE ENGINEER.
2. ALL SIGN HARDWARE REQUIRED TO INSTALL THE ALTERNATE ROUTE SIGNING SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
3. SIGNS SHALL BE REMOVED ON COMPLETION OF THE CONTRACT AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 724 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED WITH THE PAY ITEMS INVOLVED. THE SIGNS AND POSTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
4. THE RELOCATING, MAINTENANCE OR REPLACEMENT OF SIGNS SHALL BE PAID FOR IN ACCORDANC WITH ARTICLE 109.04.
5. EXACT SIGN PLACEMENT WILL BE DETERMINED BY THE ENGINEER.
6. THE DISTRICT 9 OPERATIONS ENGINEER SHALL BE CONTACTED 10 DAYS PRIOR TO THE ERECTION OF SIGNS.
7. ALL SIGNS SHALL CONFORM TO THE MUTCO AND SECTION 1106 OF THE STANDARD SPECIFICATIONS.
8. IDOT TO MONITOR & ADJUST SIGNALS ALONG DETOUR ROUTE TO MAXIMIZE CAPACITY.
9. ALL I-57 TEMPORARY CLOSURE DETOUR SIGNAGE SHALL BE COVERED OR REMOVED WHEN NOT IN EFFECT.



14
DETOUR NB I-57
USE IL 148 & IL 13
SUGGESTED MESSAGE FOR CHANGEABLE MESSAGE BOARD

15
DETOUR SB I-57/EB I-24
USE IL 13 & IL 148
SUGGESTED MESSAGE FOR CHANGEABLE MESSAGE BOARD

16
DETOUR SB I-57/EB I-24
USE IL 148
SUGGESTED MESSAGE FOR CHANGEABLE MESSAGE BOARD

17
I-57 WILL BE CLOSED
AT MM 47
DATE/TIME TO DATE/TIME
PRIOR

18
I-57 IS CLOSED
AT MM 47
USE MARKED DETOUR
DURING

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-57 TEMPORARY CLOSURE DETOUR
PLAN SIGN DETAILS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	21
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC DETOUR ROUTE NOTES

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022. THE DETAILS IN THESE PLANS, AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

2. THE CONTRACTOR SHALL PROCEED WITH THE WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR IS IN EFFECT. SEE SPECIAL PROVISIONS FOR LIMITATIONS TO CLOSURE TIME AND DURATION.

3. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE ROAD IS TO BE CLOSED. THE ENGINEER WILL CONTACT THE BUREAU OF OPERATIONS AS WELL AS LOCAL, TOWNSHIP AND COUNTY OFFICIALS CONCERNING THE CLOSURE.

4. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING AND MAINTENANCE PRIOR TO THE START OF WORK.

5. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

6. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH HIGHWAY STANDARD BLR 21 AND WITH THE ROAD CLOSURE PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.

7. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR.

8. ALL ROAD CLOSURE SIGNING SHALL BE MOUNTED AS INDICATED.

9. ALL ROAD CLOSURE SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE BACKGROUNDS AND STANDARD BLACK BORDERS. ALL ROAD CLOSURE SIGNING SHALL BE NEW OR LIKE NEW CONDITION.

10. THE SIZE OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND APPLICABLE TRAFFIC STANDARDS.

11. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THE ROAD CLOSURE SIGNING SHALL MEET THE REQUIREMENTS FOR A TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.

12. THE TYPE III BARRICADES USED AT POINTS OF CLOSURE TO THRU TRAFFIC ONLY SHALL NOT EXCEED 8 FEET IN WIDTH EACH FOR A SINGLE APPROACH LANE. ALL BARRICADES AT THESE LOCATIONS SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADE.

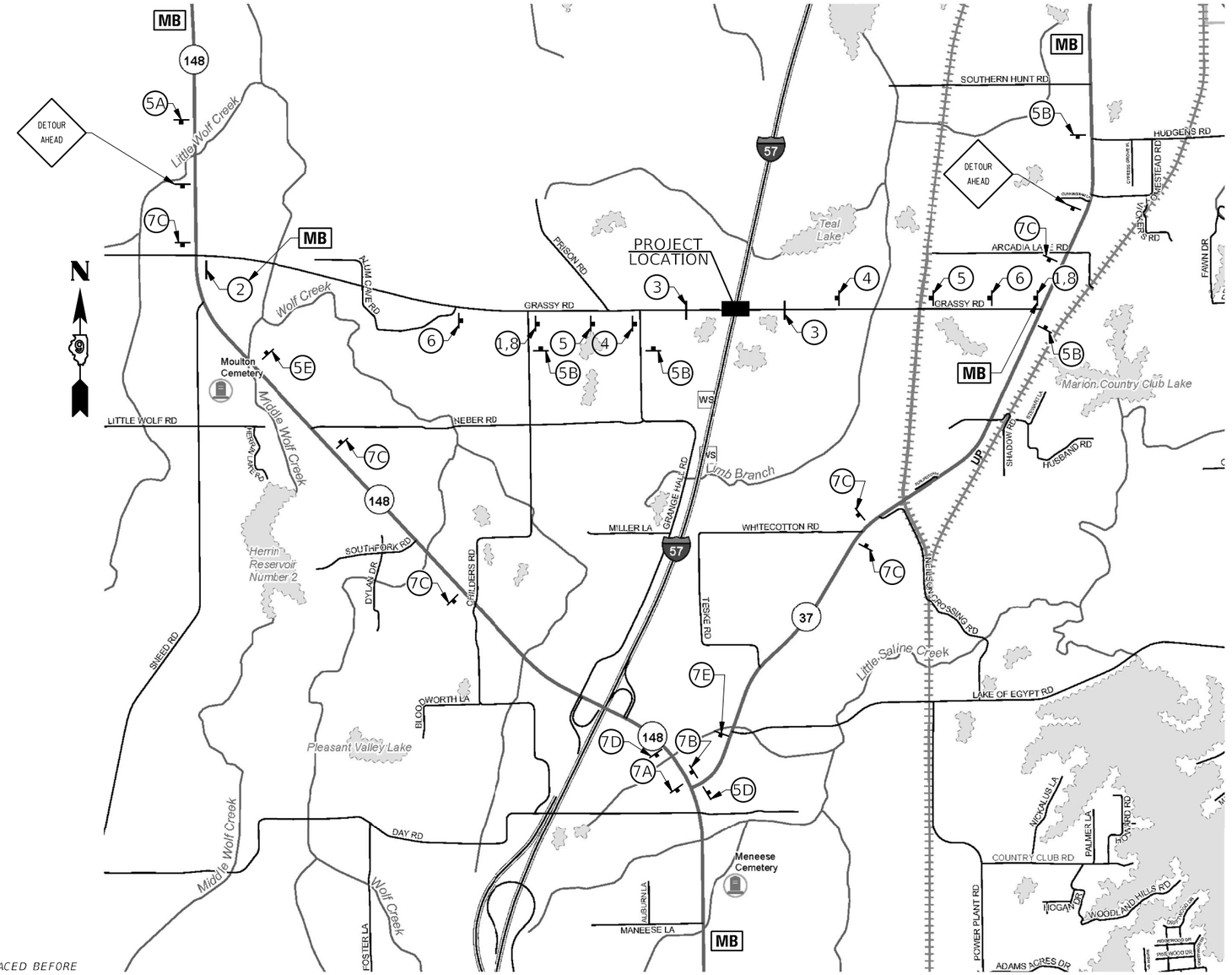
13. THE "ROAD CLOSED" SIGN ON A TYPE III BARRICADE SHALL BE MOUNTED ACCORDING TO STANDARD 701901. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A - LOW INTENSITY FLASHING LIGHTS.

14. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT, ARTICLES 701 THRU 703 OF THE STANDARD SPECIFICATIONS SHALL APPLY.

15. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO WEEKS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE DISTRICT 9 BUREAU OF OPERATIONS.

16. THE CONTRACTOR SHALL MAINTAIN OVERNIGHT ACCESS TO ALL PRIVATE DRIVEWAYS AND FIELD ENTRANCES DURING PERIODS OF CONSTRUCTION.

    WHEN I-57 IS CLOSED FOR STRUCTURE REMOVAL AND RECONSTRUCTION THE SIGNS ON IL 148 AND IL 37 SHALL BE COVERED.



ROAD CLOSURE PLAN
NOT TO SCALE

LEGEND

- SIGN POST MOUNTED
- TYPE III BARRICADE
- MB — MESSAGE BOARD

MB

GRASSY ROAD
WILL BE CLOSED OVER I-57
DATE XX TO DATE XX

NOTE: MESSAGE BOARD TO BE PLACED BEFORE ROAD CLOSURE. AFTER THE ROAD IS CLOSED THE MESSAGE BOARD WILL BE REMOVED AND SIGNS 1 AND 2 SHALL BE PUT IN ITS PLACE.

ROAD CLOSURE SIGNS

NOTE: SIGNS 1-5 SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 21.

1. ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY — R11-3a POST MOUNTED
2. ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3a POST MOUNTED
3. ROAD CLOSED — R11-2 (48x30) MOUNTED ON TYPE III BARRICADE (SEE NOTE 14) PER BLR 21
4. ROAD CLOSED 500 FT — W20-3 (0) (48x48) SIGN WITH FLASHING LIGHT POST MOUNTED
5. ROAD CLOSED AHEAD / GRASSY ROAD — W20-3 (0) (48x48) SIGN WITH FLASHING LIGHT POST MOUNTED
6. ROAD CONSTRUCTION AHEAD — W20-1-103 (0) (48x48) SIGN WITH FLASHING LIGHT POST MOUNTED
7. DETOUR / GRASSY ROAD — M4-8 (24x12) (0) M1-100a (30x24) (SEE DIRECTIONAL ARROWS) POST MOUNTED
8. BRIDGE OUT AHEAD — W20-3(01)-36 POST MOUNTED

DIRECTIONAL ARROWS

A	B	C	D	E
M6-1 (21x15)	M6-1 (21x15)	M6-3 (21x15)	M5-1 (21x15)	M5-1 (21x15)

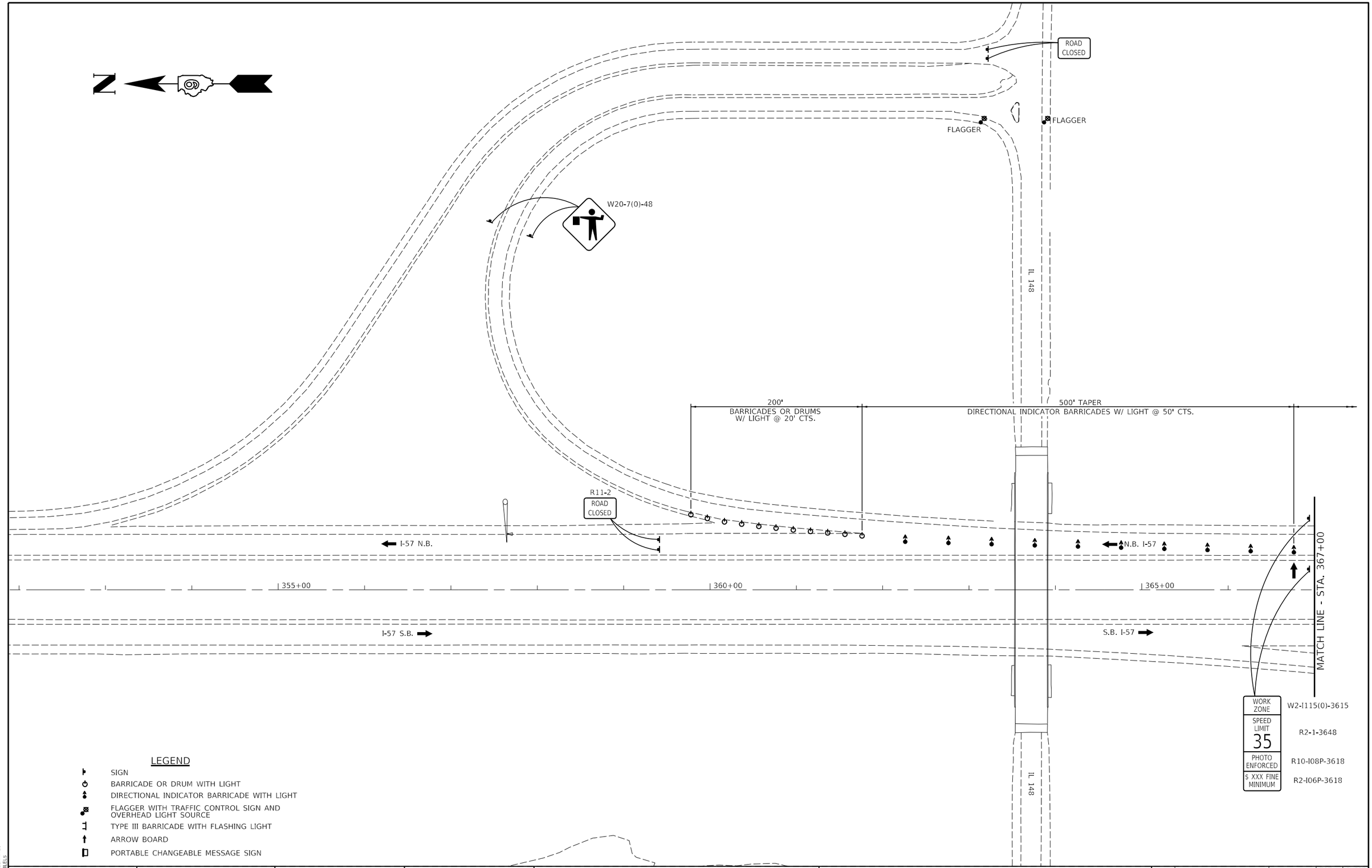
VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME = __	DESIGNED - __	REVISED - __
		CHECKED - __	REVISED - __
	PLOT SCALE = __	DRAWN - __	REVISED - __
	PLOT DATE = __	CHECKED - __	REVISED - __

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 25 (GRASSY ROAD) DETOUR PLAN

SCALE: 1" = 30' | SHEET NO. __ OF __ SHEETS | STA. _____ TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	22
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- SIGN
- BARRICADE OR DRUM WITH LIGHT
- DIRECTIONAL INDICATOR BARRICADE WITH LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN AND OVERHEAD LIGHT SOURCE
- TYPE III BARRICADE WITH FLASHING LIGHT
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN

MODEL: $MODELNAME$
FILE NAME: =$FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

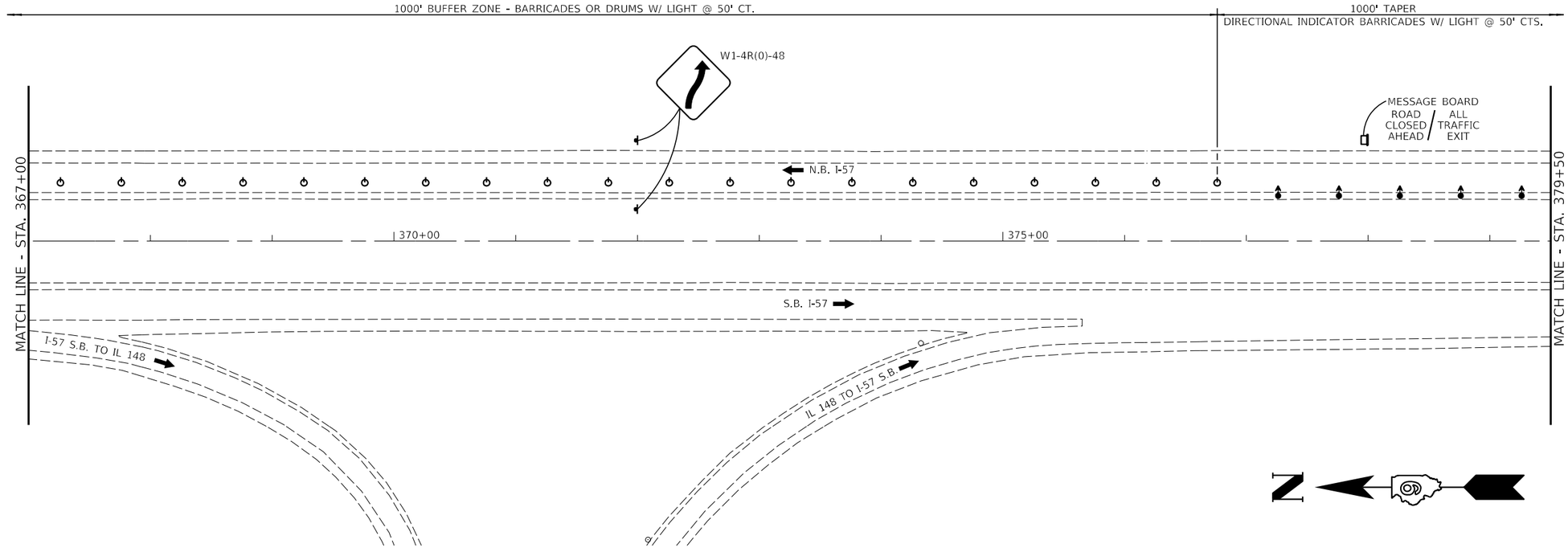
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

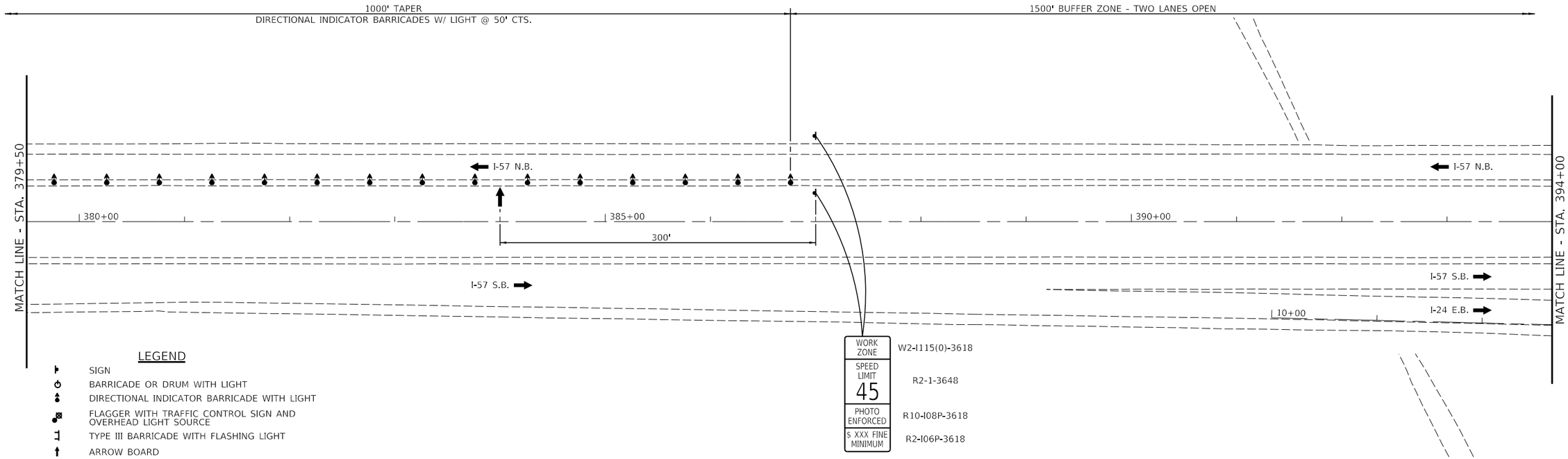
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–57 NORTHBOUND TEMPORARY CLOSURE
TRAFFIC CONTROL DETAILS

SCALE: 1" = 50' | SHEET 1 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	23
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		





LEGEND

- SIGN
- BARRICADE OR DRUM WITH LIGHT
- DIRECTIONAL INDICATOR BARRICADE WITH LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN AND OVERHEAD LIGHT SOURCE
- TYPE III BARRICADE WITH FLASHING LIGHT
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

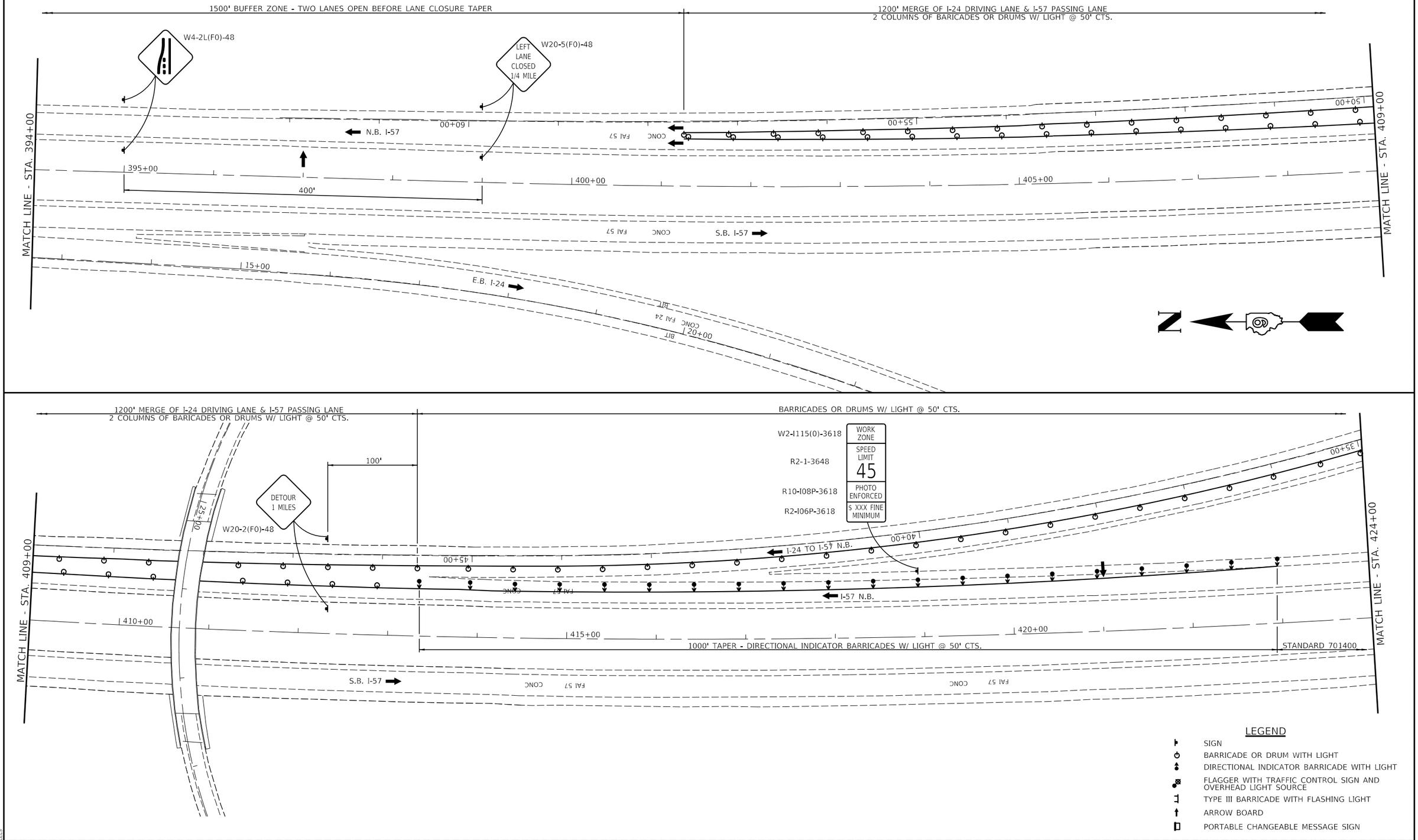
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-57 NORTHBOUND TEMPORARY CLOSURE
TRAFFIC CONTROL DETAILS

SCALE: 1" = 50' | SHEET 2 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	24
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- SIGN
- BARRICADE OR DRUM WITH LIGHT
- DIRECTIONAL INDICATOR BARRICADE WITH LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN AND OVERHEAD LIGHT SOURCE
- TYPE III BARRICADE WITH FLASHING LIGHT
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

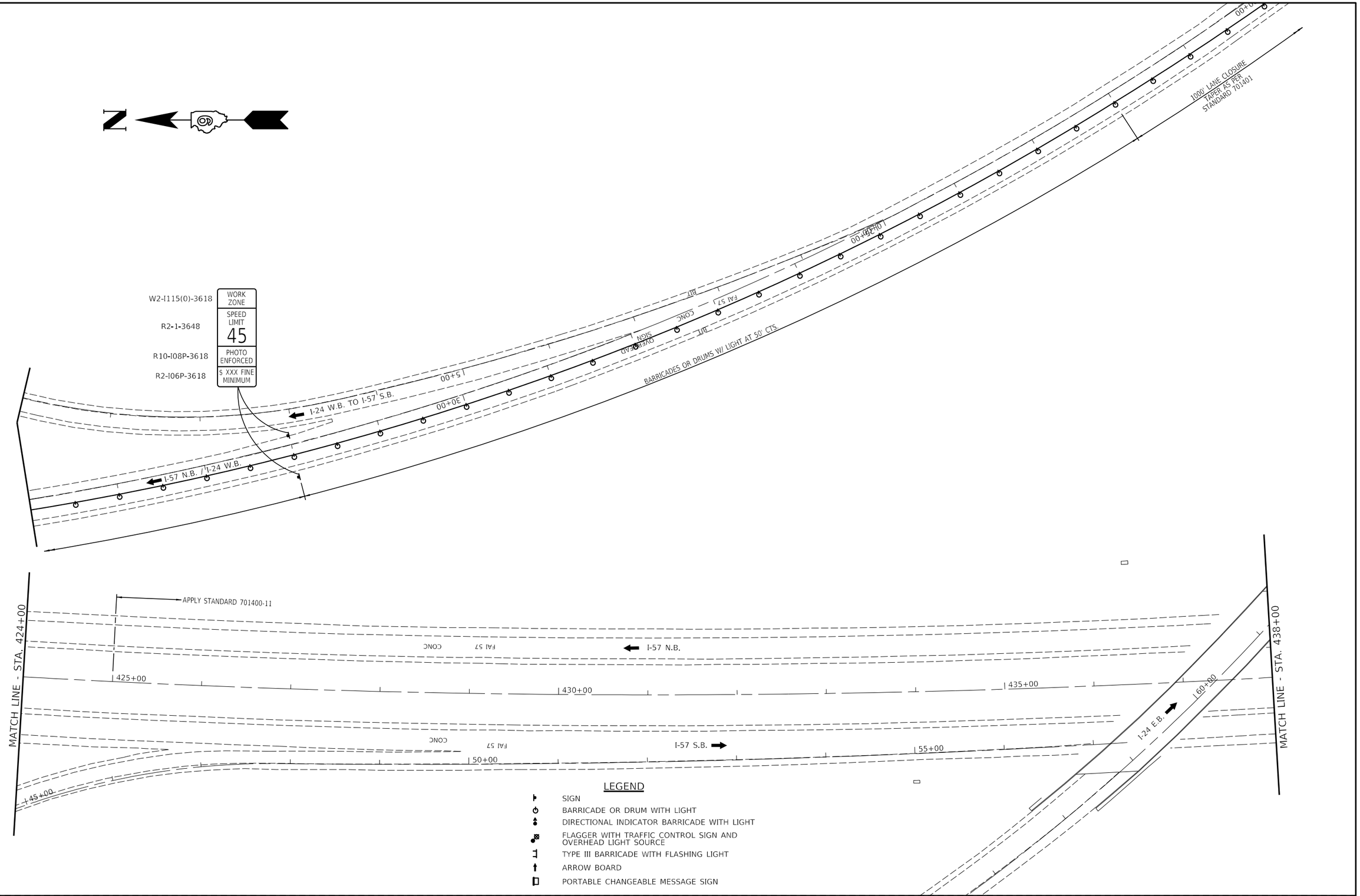
USER NAME = $USER$	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____	
PLOT DATE = $DATE$	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–57 NORTHBOUND TEMPORARY CLOSURE
TRAFFIC CONTROL DETAILS

SCALE: 1" = 50' | SHEET 3 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	25
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- SIGN
- BARRICADE OR DRUM WITH LIGHT
- DIRECTIONAL INDICATOR BARRICADE WITH LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN AND OVERHEAD LIGHT SOURCE
- TYPE III BARRICADE WITH FLASHING LIGHT
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

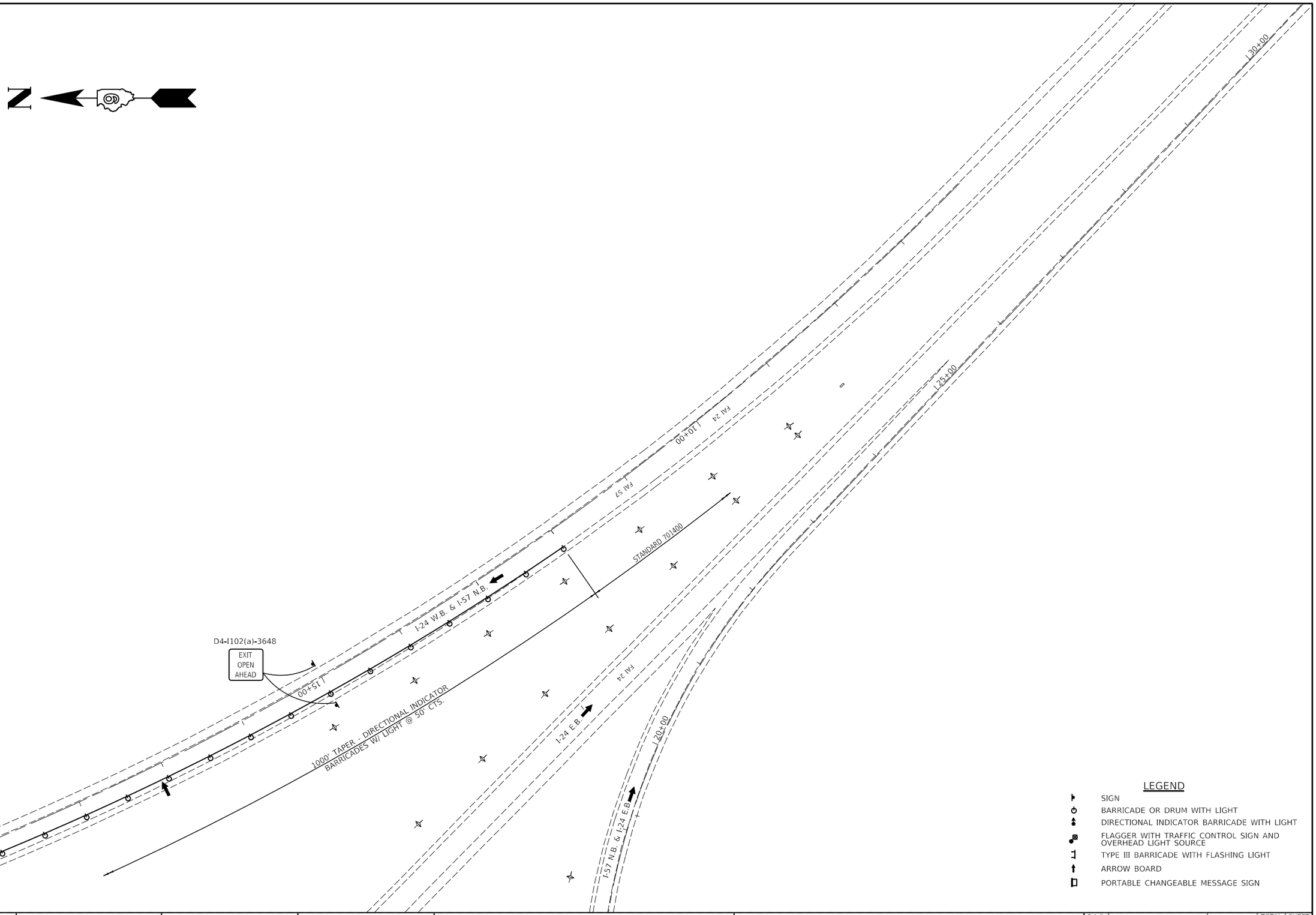
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–57 NORTHBOUND TEMPORARY CLOSURE
TRAFFIC CONTROL DETAILS

SCALE: 1" = 50' | SHEET 4 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	26
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- SIGN
- BARRICADE OR DRUM WITH LIGHT
- DIRECTIONAL INDICATOR BARRICADE WITH LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN AND OVERHEAD LIGHT SOURCE
- TYPE III BARRICADE WITH FLASHING LIGHT
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

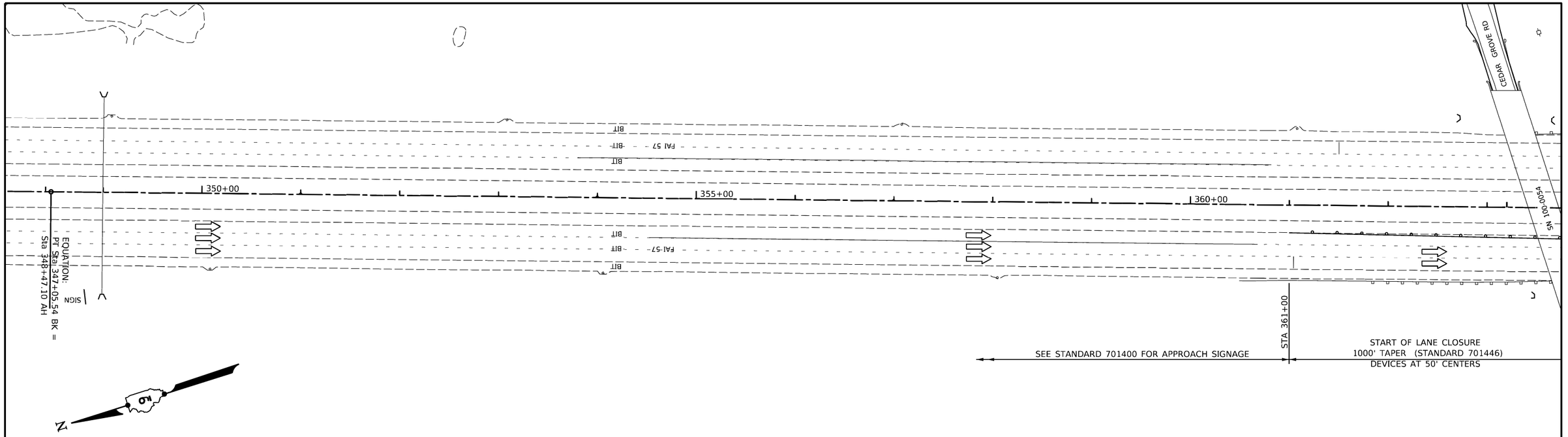
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

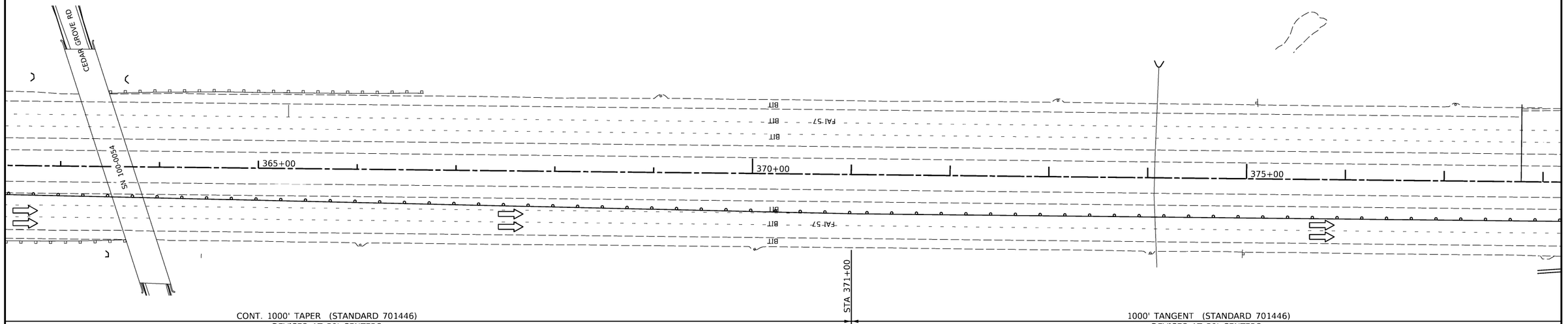
I–57 NORTHBOUND TEMPORARY CLOSURE
TRAFFIC CONTROL DETAILS

SCALE: 1" = 50' | SHEET 5 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	27
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			



FOLLOW STANDARD 701446 FOR SIGNAGE AND SETUP



FOLLOW STANDARD 701446 FOR SIGNAGE AND SETUP

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

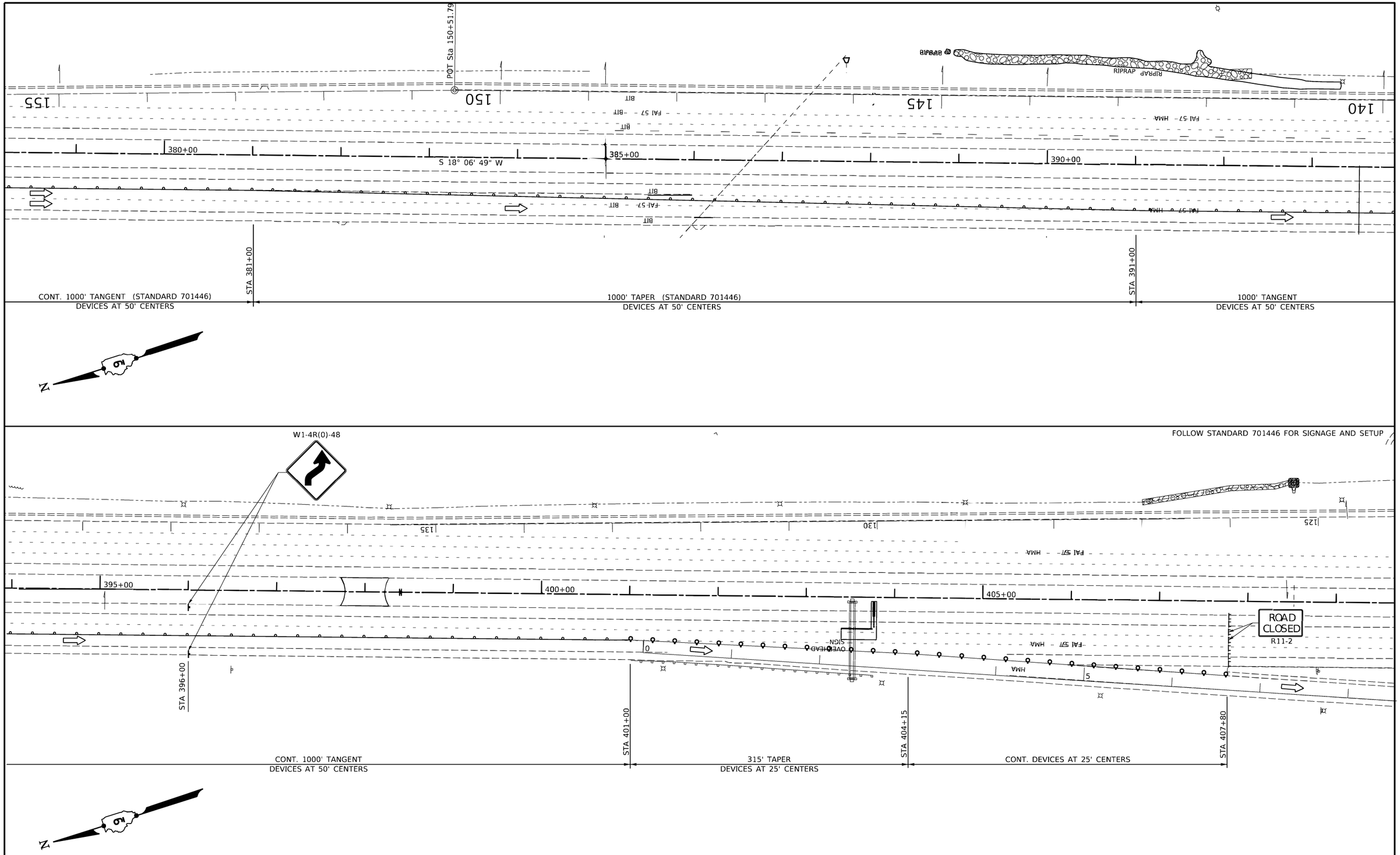
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–57 SOUTHBOUND TEMPORARY CLOSURE
TRAFFIC CONTROL DETAILS

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2, R-3	WILLIAMSON	98	28
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

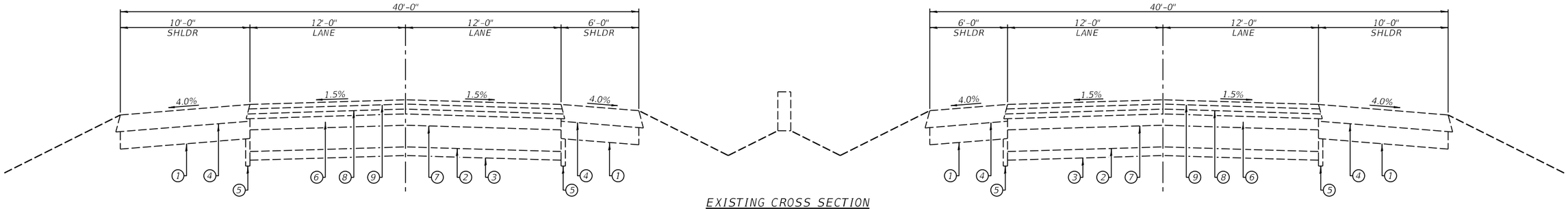
I–57 SOUTHBOUND TEMPORARY CLOSURE
TRAFFIC CONTROL DETAILS

SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. _____ | TO STA. _____

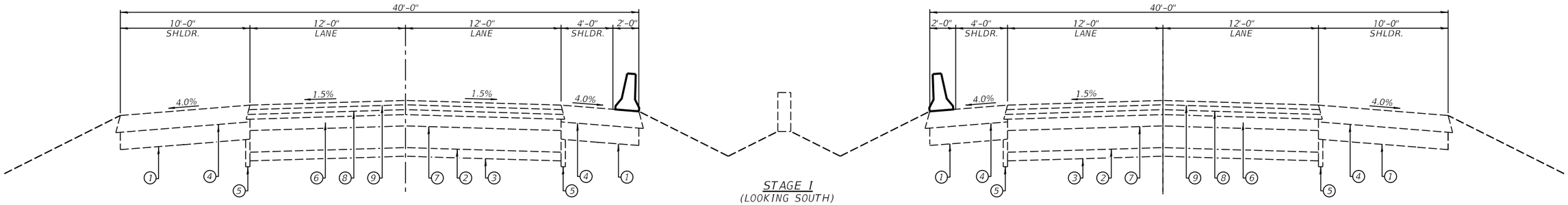
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2, R-3	WILLIAMSON	98	29

CONTRACT NO. 78945

ILLINOIS | FED. AID PROJECT



EXISTING CROSS SECTION
(LOOKING SOUTH)



STAGE I
(LOOKING SOUTH)

PAVEMENT LEGEND

1 - EX AGGREGATE BASE
2 - EX 10" PCC PAVEMENT
3 - EX HMA SURFACE, 4"
4 - EX HMA SHOULDERS, 8"
5 - EX PIPE UNDERDRAINS, 4"
6 - EX HMA SURFACE REMOVAL, 4"
7 - EX HMA BINDER COURSE, N90, IL-19.0 FG, 7½"
8 - EX POLYMERIZED HMA BINDER COURSE, N90, IL-19.0 FG, 2¼"
9 - EX POLYMERIZED HMA SURFACE COURSE, MIX E, N90, 2"

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

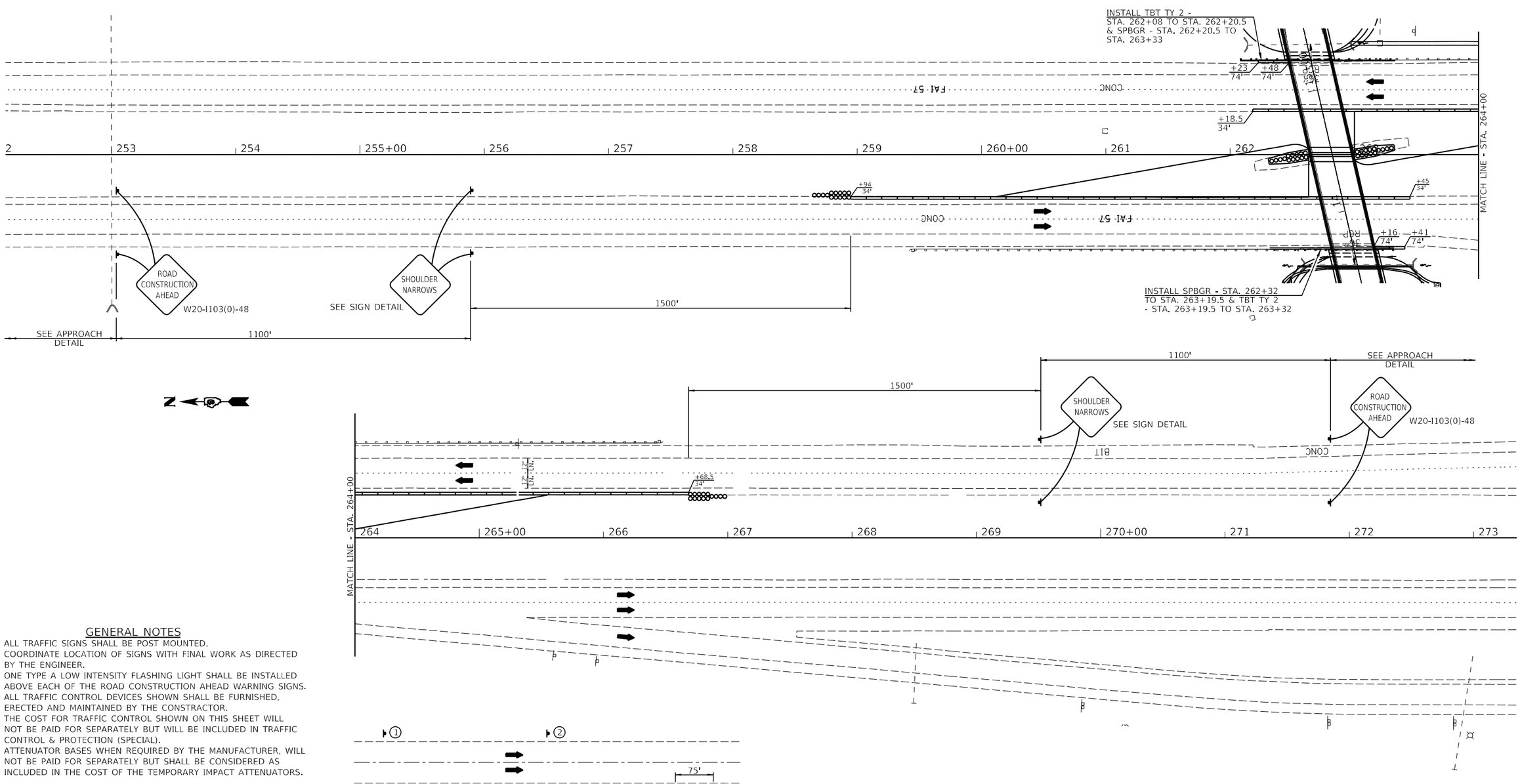
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-57 TYPICAL SECTIONS FOR PIER CONSTRUCTION

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	30
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			

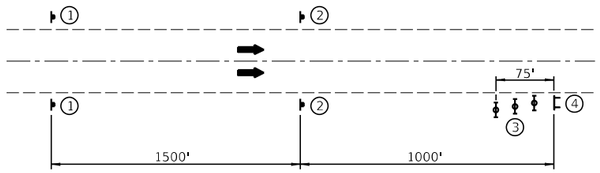


GENERAL NOTES

1. ALL TRAFFIC SIGNS SHALL BE POST MOUNTED.
2. COORDINATE LOCATION OF SIGNS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
3. ONE TYPE A LOW INTENSITY FLASHING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE ROAD CONSTRUCTION AHEAD WARNING SIGNS.
4. ALL TRAFFIC CONTROL DEVICES SHOWN SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONSTRACTOR.
5. THE COST FOR TRAFFIC CONTROL SHOWN ON THIS SHEET WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN TRAFFIC CONTROL & PROTECTION (SPECIAL).
6. ATTENUATOR BASES WHEN REQUIRED BY THE MANUFACTURER, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE TEMPORARY IMPACT ATTENUATORS.

LEGEND

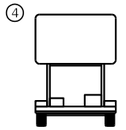
- REMOVAL ITEMS
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- BARRICADE WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS



APPROACH DETAIL

1. THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 TO 5 MILES IN ADAVNCE OF THE PROJECT LIMITS.
2. THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
3. THREE TYPE II BARRICADES, DRUMS OR VERTICAL BARRICADES AT 25' CENTERS.
4. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT, THE PRIMARY MESSAGES SHALL BE:
"SHOULDER NARROWS" / "X MILES AHEAD" / "ALL LANES OPEN"

WORK ZONE PUBLIC INFORMATION SIGN



PORTABLE CHANGEABLE MESSAGE SIGN

PLAN

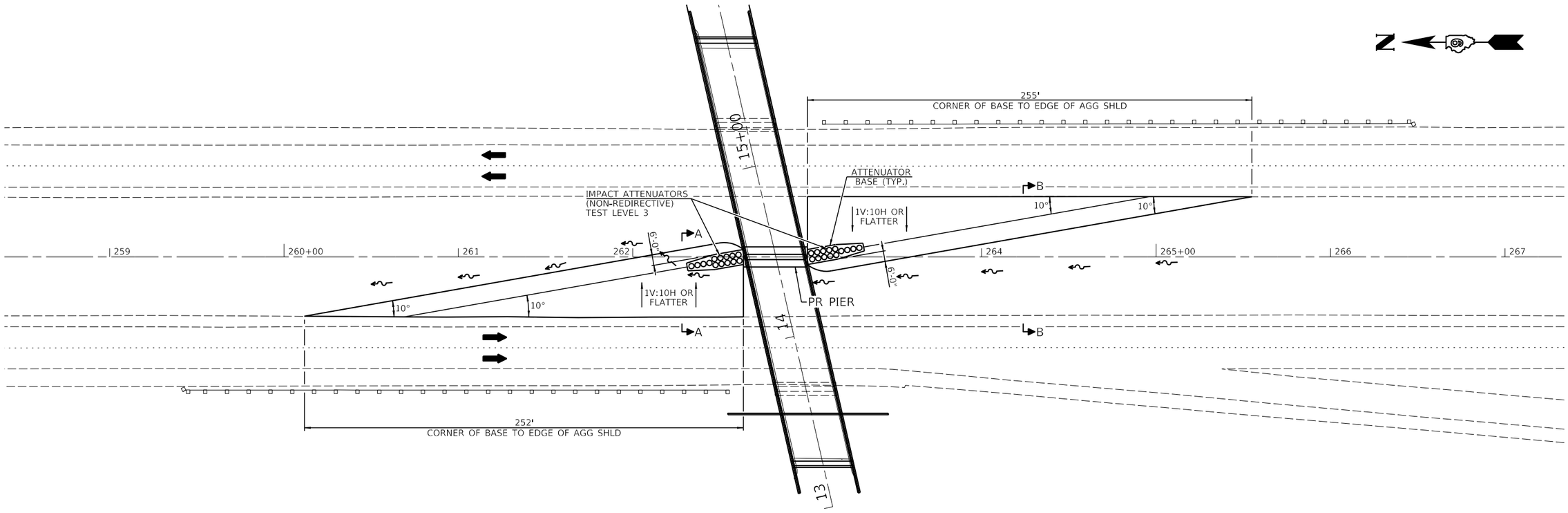
0 40 80

SCALE: 1" = 40'

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME = $USER$	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**I-57 TEMPORARY CONCRETE BARRIER PLAN FOR PIER CONSTRUCTION**
		DRAWN - _____	REVISED - _____		
	PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____		SCALE: 1" = 40' SHEET _ OF _ SHEETS STA. _____ TO STA. _____
	PLOT DATE = $DATE$	DATE - _____	REVISED - _____		

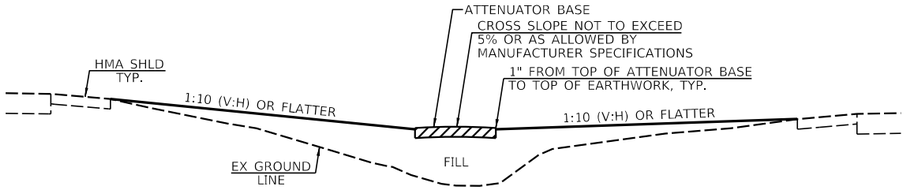
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	31
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



IMPACT ATTENUATOR LAYOUT AND GRADING PLAN

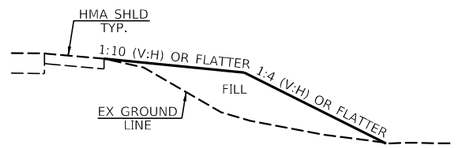
GENERAL NOTES

1. SAND MODULE IMPACT ATTENUATORS ARE REQUIRED TO HAVE A PCC OR HMA BASE, FOLLOWING THE REQUIREMENTS IN ARTICLE 643.04 ATTENUATOR BASE WILL BE PAID FOR AT CONTRACT UNIT PRICE FOR SQUARE YARD OF ATTENUATOR BASE.
2. REMOVE EXISTING SAND MODULE IMPACT ATTENUATORS AND ATTENUATOR BASES DURING PIER REMOVAL.
3. SEE STANDARD 643001 FOR ADDITIONAL DETAILS.
4. THE 1:10 SLOPE CONTROLS THE NOSE ELEVATION OF THE ATTENUATOR BASE.
5. ATTENUATOR BASE GRADE PARALLELS EDGE OF PAVEMENT GRADE.
6. SLOPE ADJACENT TO ATTENUATOR BASE SHALL BE 1:10 OR FLATTER.



SECTION A-A

NOTE: AT ATTENUATOR BASE GRADE DITCH TO KEEP POSITIVE DRAINAGE FLOW TO THE NORTH



SECTION B-B

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____	
PLOT DATE = $DATE$	DATE - _____	REVISED - _____	

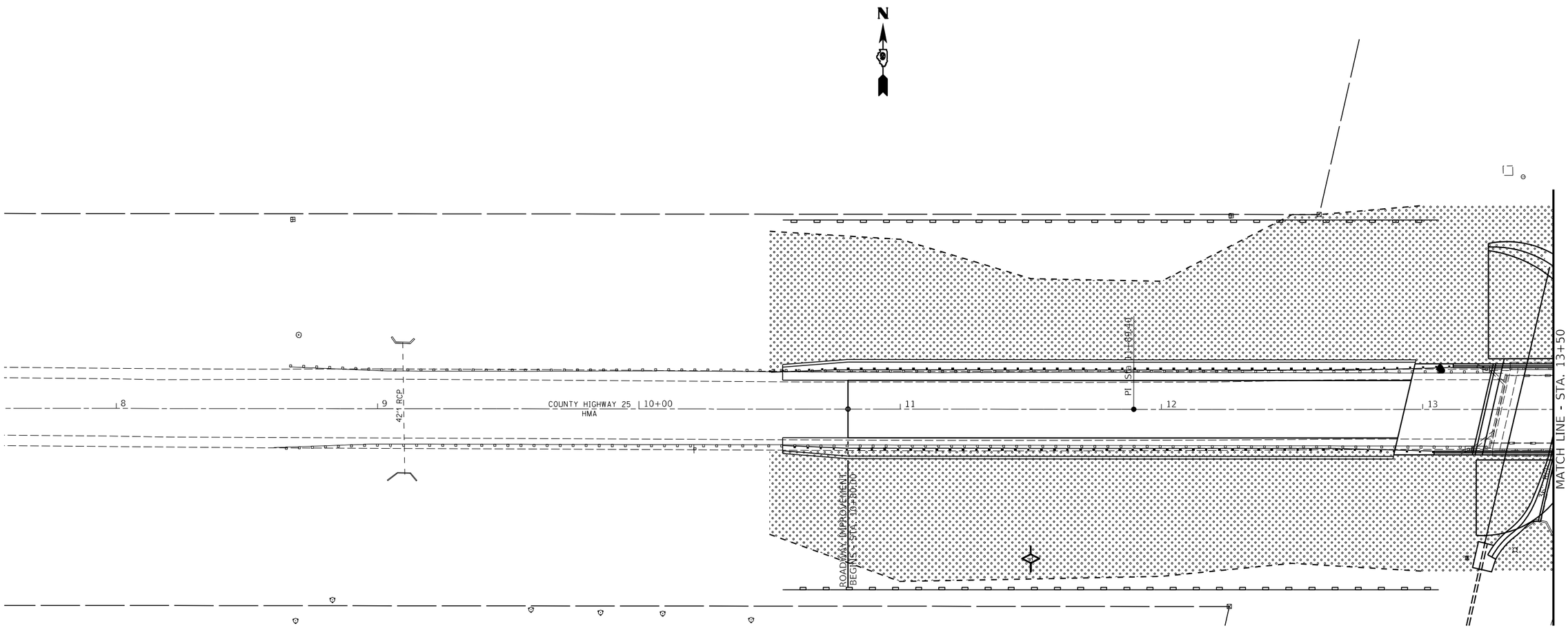
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–57 GRADING AND ATTENUATOR DETAILS

SCALE: 1" = 30' | SHEET ___ OF ___ SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	32
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

MODEL: $MODELNAME$
FILE NAME: $FILE$



PLAN

0 20 40

SCALE: 1" = 20'

LEGEND

- SEEDING, CLASS 2A & 7
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET PIPE PROTECTION

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

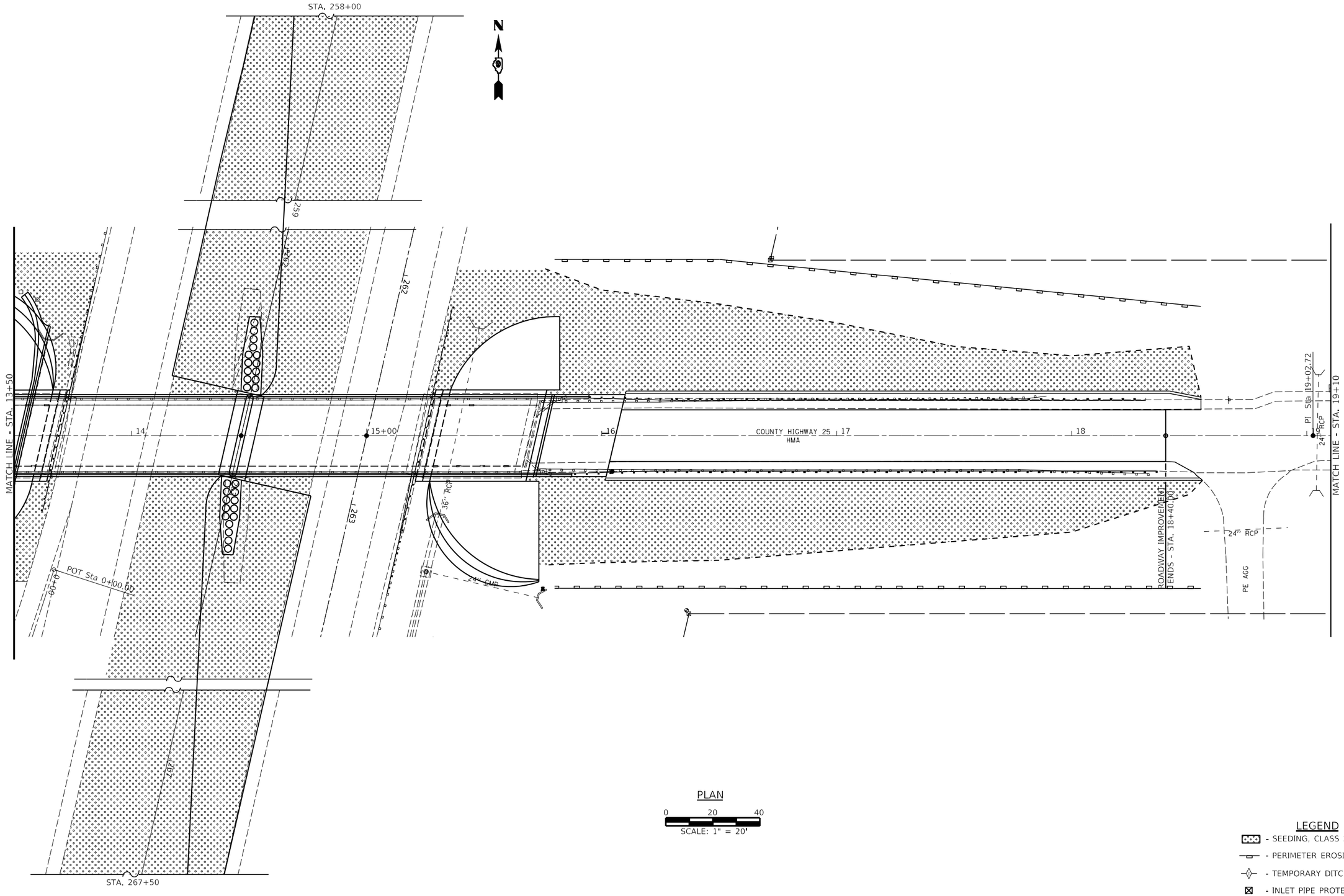
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	33
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



PLAN

0 20 40

SCALE: 1" = 20'

LEGEND

- SEEDING, CLASS 2A & 7
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET PIPE PROTECTION

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

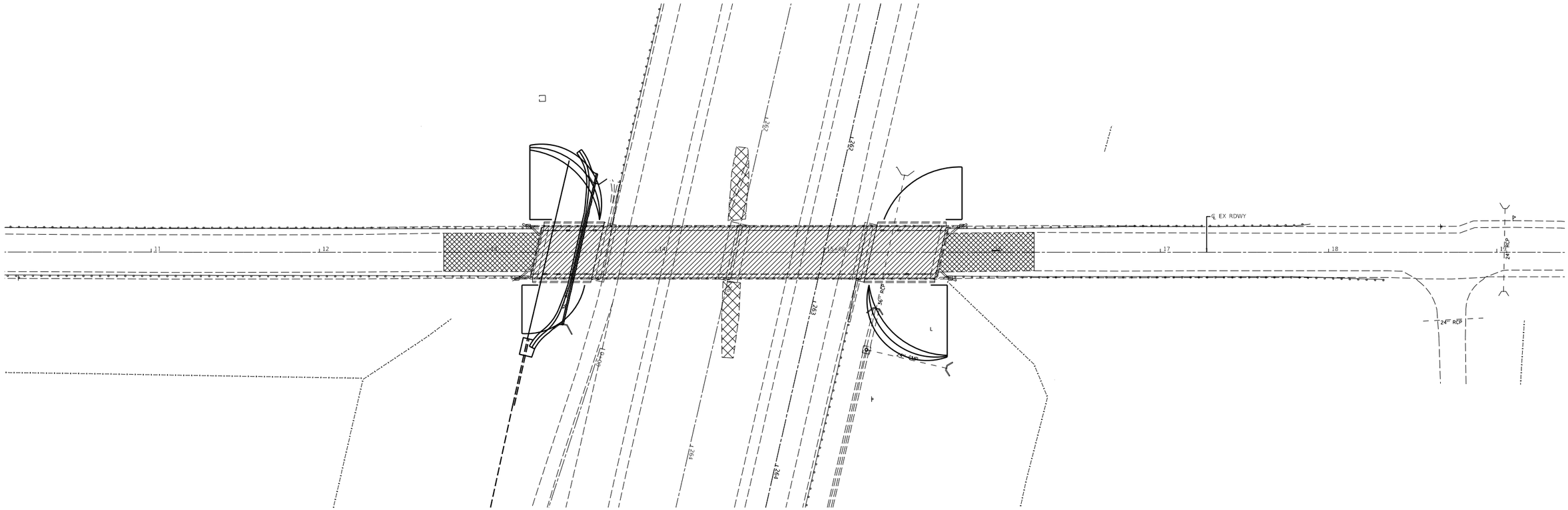
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	34
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



- INDICATES PAVEMENT REMOVAL
- INDICATES STRUCTURE REMOVAL
- INDICATES ATTENUATOR BASE REMOVAL

PLAN

0 30 60

SCALE: 1" = 30'

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

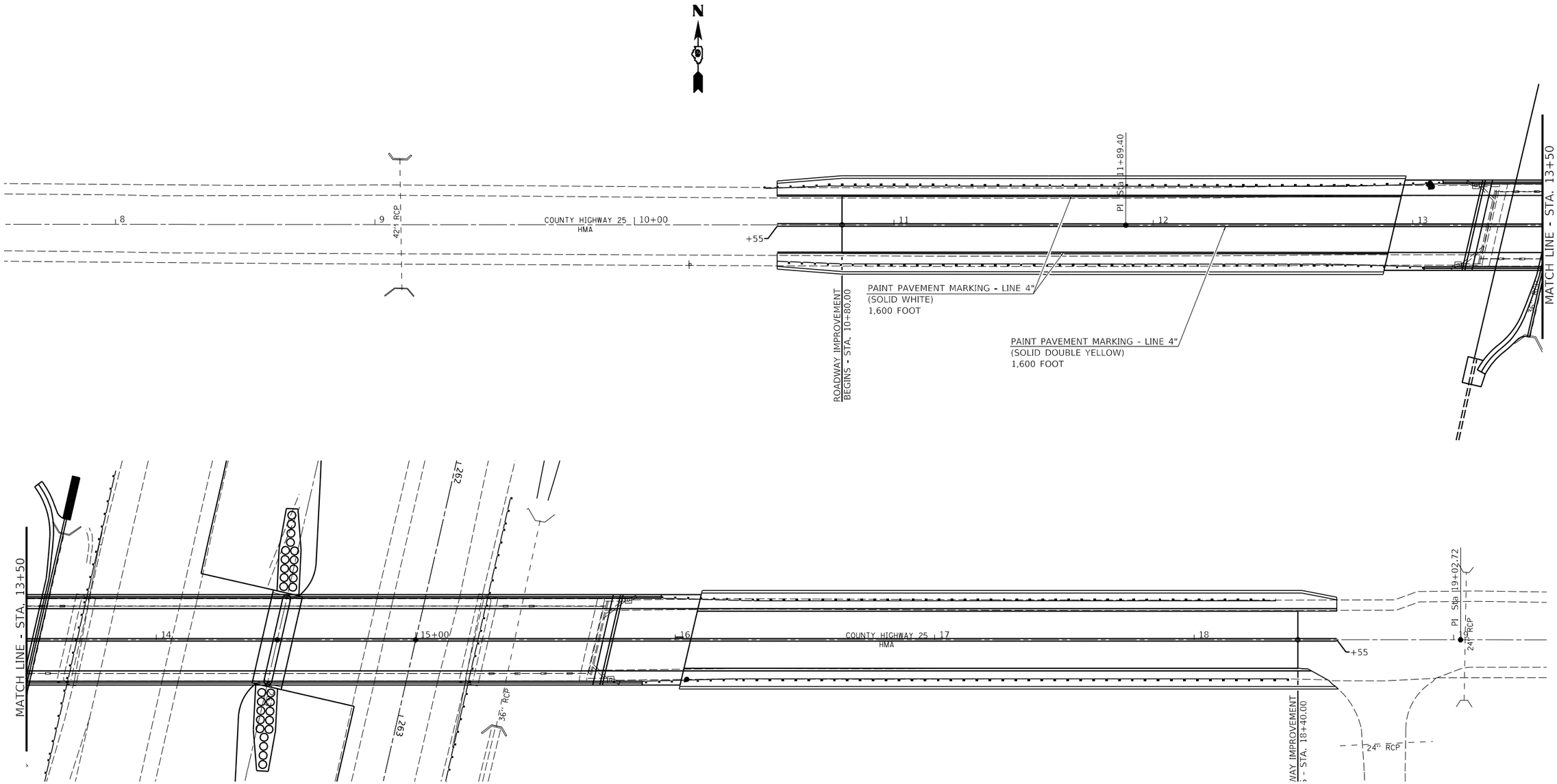
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 30' | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	35
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



PLAN

0 20 40

SCALE: 1" = 20'

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

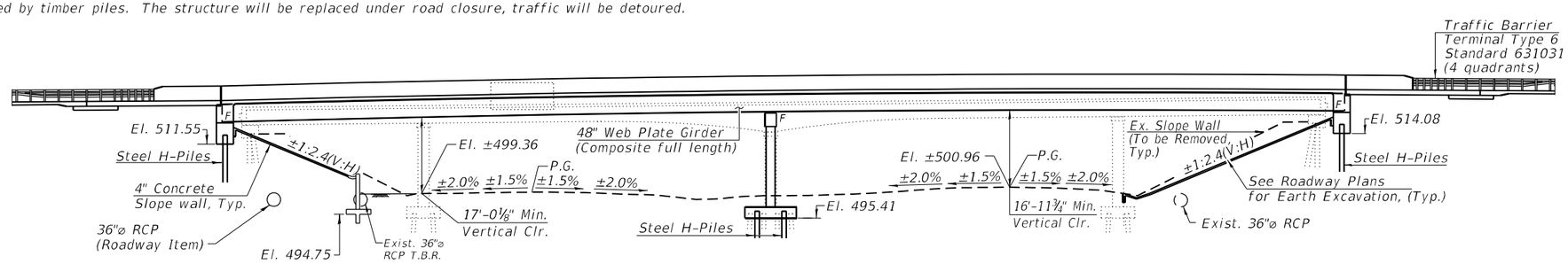
SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	36
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			

Bench Mark: BM 4-A – Chiseled "□" on South End of Concrete Guardwall, south of East Pier, East of northbound I-57, of Structure 100-0044. Station 15+14.50, 42.25' Rt. Elev. – 503.256

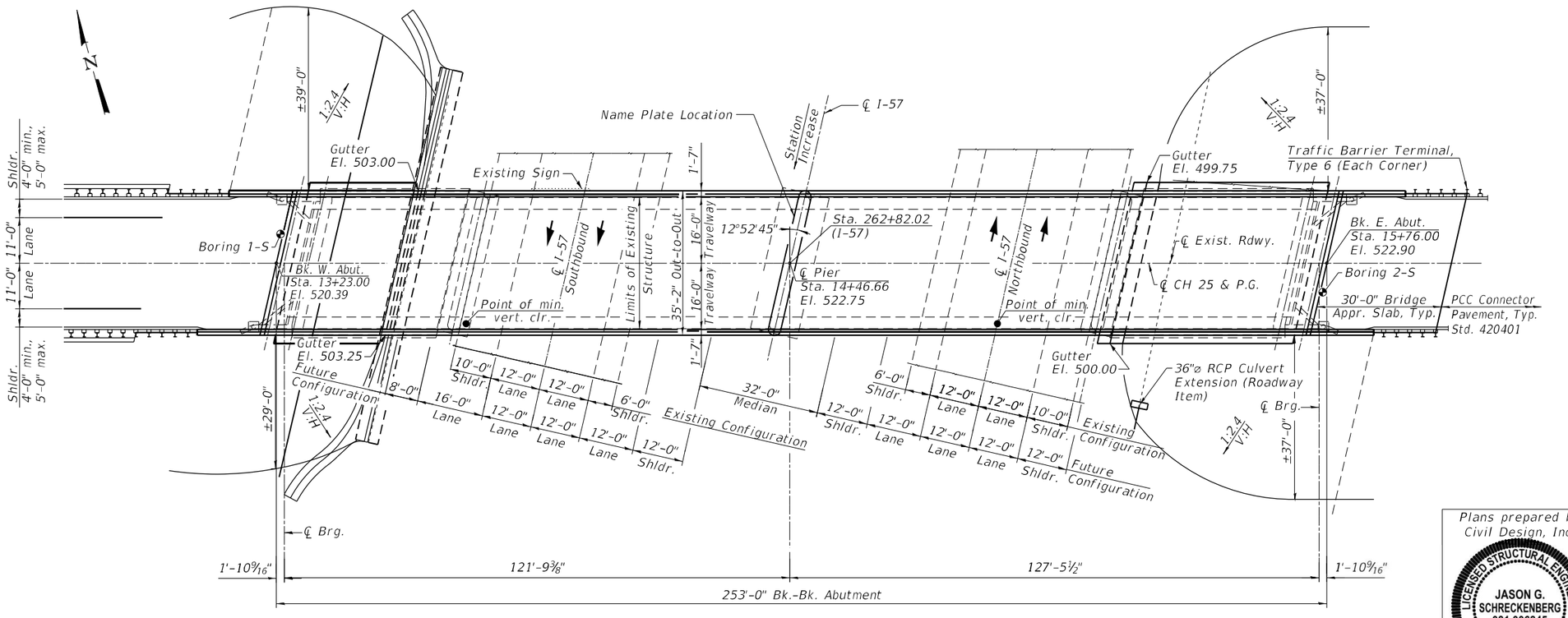
Existing Structure: SN 100-0044 was constructed in 1959 under Section X1-7HB at Sta. 14+46.66. The existing structure is a 4-span, haunched reinforced concrete deck girder bridge having a back-to-back abutment length of 241'-9" and a 26'-0" face-to-face of curb and 31'-8" out-to-out of deck at a 12°52'45" left forward skew. The superstructure consists of a reinforced concrete slab supported by five haunched concrete T-beams. The substructure consists of reinforced concrete pile bent abutments supported by concrete piles and multi-column piers on reinforced concrete spread footings supported by timber piles. The structure will be replaced under road closure, traffic will be detoured.

No salvage.



ELEVATION

Boring 3-S



PLAN

LOADING HL-93

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

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.

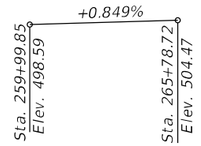
DESIGN STRESSES

FIELD UNITS

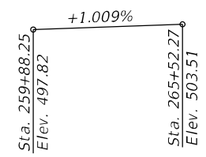
f'_c = 3,500 psi
f'_c = 4,000 psi (Superstructure Concrete)
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M270 Grade 50)

SEISMIC DATA

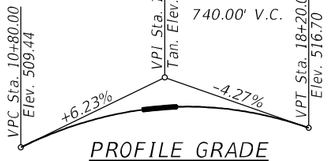
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.297 g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.810 g
Soil Site Class = C



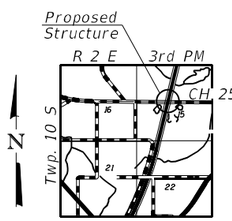
PROFILE GRADE
(Along ℄ NB I-57)



PROFILE GRADE
(Along ℄ SB I-57)



PROFILE GRADE
(Along ℄ CH 25)



LOCATION SKETCH

Plans prepared by Civil Design, Inc.

LICENSED STRUCTURAL ENGINEER
JASON G. SCHRECKENBERG
081.006845
STATE OF ILLINOIS

Date: 05/09/2023
Expiration: 11/30/2024

GENERAL PLAN & ELEVATION
FAS 1900/CH 25 (GRASSY ROAD)
OVER INTERSTATE 57
SECTION (X1-7-1)B-2
WILLIAMSON COUNTY
STATION 14+46.66
STRUCTURE NO. 100-0105

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

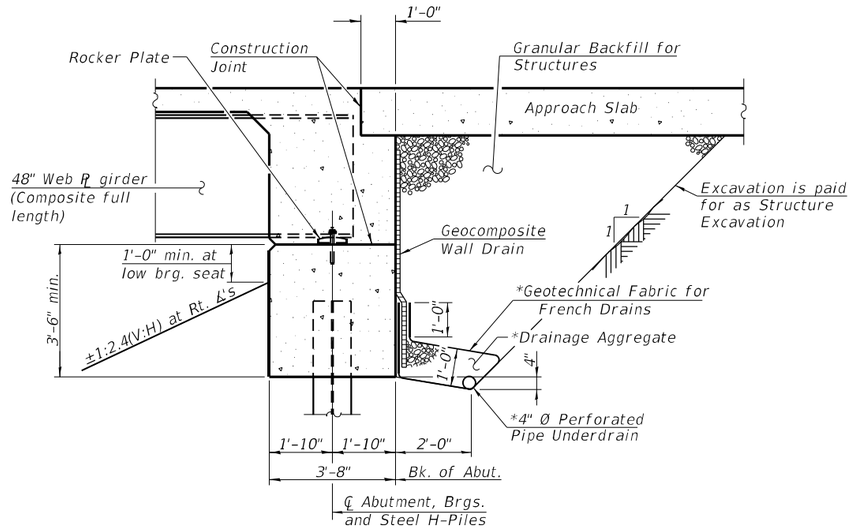
USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 100-0105
SHEET 1 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	37
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

MODEL: 1 GPE
FILE NAME: X:\SXX\SXX\54XX\55XX\5574 - PTB 203-048 D9 Veenstra Kimmi\WO 124-Structures\CADD\Bridge1 GPE Model.dgn
5/9/2023 1:18:08 PM

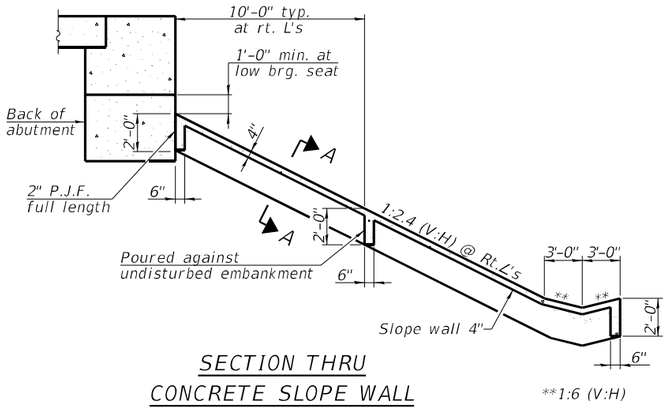


SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. ∠'s)

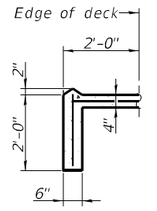
* Included in the cost of Pipe Underdrains for Structures.

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of Standard Specifications and Highway Standard 601101)



SECTION THRU CONCRETE SLOPE WALL

**1:6 (V:H)



SECTION A-A

Slopewall shall be reinforced with welded wire fabric, 6" x 6" – W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		420	420
Concrete Structures	Cu. Yd.		149.6	149.6
Concrete Superstructure	Cu. Yd.	356.0		356.0
Bridge Deck Grooving	Sq. Yd.	1,037		1,037
Protective Coat	Sq. Yd.	1,377		1,377
Concrete Superstructure (Approach Slab)	Cu. Yd.	95.3		95.3
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	4,572		4,572
Reinforcement Bars, Epoxy Coated	Pound	119,350	27,400	146,750
Slope Wall 4 Inch	Sq. Yd.		338	338
Furnishing Steel Piles HP14x89	Foot		1,765	1,765
Driving Piles	Foot		1,765	1,765
Pile Shoes	Each		28	28
Test Pile Steel HP14x89	Each		3	3
Name Plates	Each		1	1
Anchor Bolts, 1"	Each		24	24
Anchor Bolts, 1½"	Each		12	12
Geocomposite Wall Drain	Sq. Yd.		89	89
Granular Backfill for Structures	Cu. Yd.		191	191
Pipe Underdrains for Structures 4"	Foot		141	141

STATION 14+46.66
BUILT 20__ BY
STATE OF ILLINOIS
F.A.S. RT. 1900 SEC. (X1-7-1)B-2
LOADING HL-93
STR. NO. 100-0105

NAME PLATE

See Std. 515001

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts ⅞-in. Ø holes $^{15}/_{16}$-in. Ø, unless otherwise noted.

Calculated weight of Structural Steel = 318,290 lbs. (AASHTO M270 Grade 50)
13,070 lbs. (AASHTO M270 Grade 36)

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1#8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

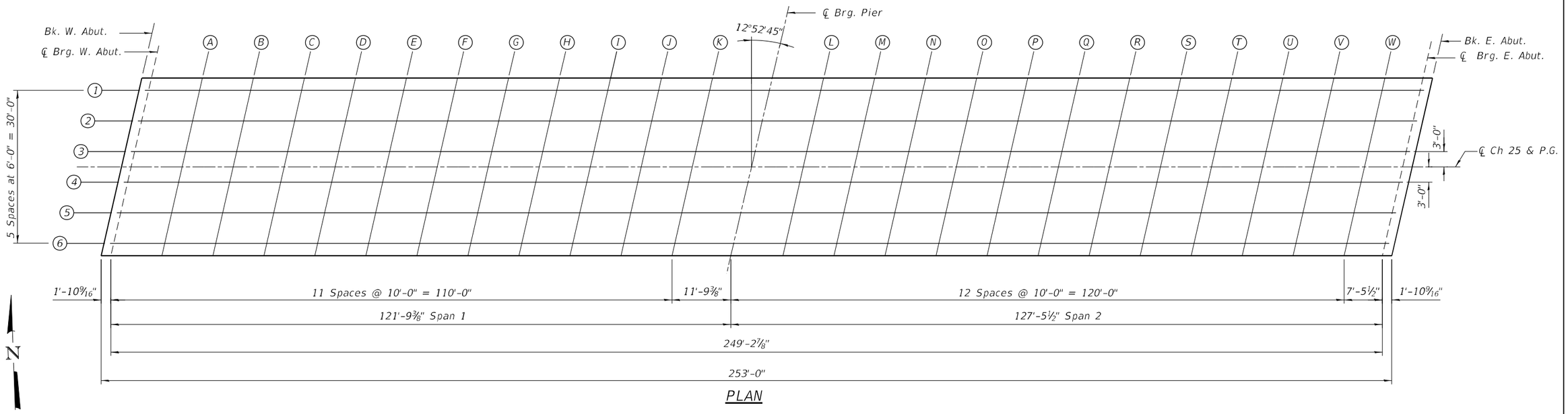
The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with presence of lead on this project.

Removal of existing concrete slope walls shall be included in the cost of Removal of Existing Structures.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No 5.5R 3.3/11.1.

Slip forming of the parapets is not allowed.

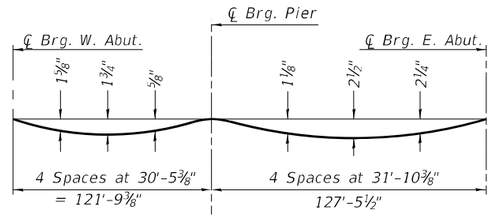
Contractor shall refer to the aesthetic drawings for information on all aesthetic treatments, component requirements, and dimensions. Nominal structural dimensions shown in the bridge plans shall be supplemented to conform with the aesthetic drawings.



PLAN

CENTERLINE CH 25 AND PROFILE GRADE LINE

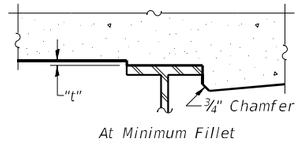
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	13+23.00	0.00′	520.39	520.39
CL. BRG. W. ABUT.	13+24.88	0.00′	520.44	520.44
A	13+34.88	0.00′	520.71	520.76
B	13+44.88	0.00′	520.96	521.06
C	13+54.88	0.00′	521.20	521.34
D	13+64.88	0.00′	521.43	521.58
E	13+74.88	0.00′	521.64	521.80
F	13+84.88	0.00′	521.84	521.98
G	13+94.88	0.00′	522.02	522.14
H	14+04.88	0.00′	522.19	522.28
I	14+14.88	0.00′	522.35	522.40
J	14+24.88	0.00′	522.49	522.51
K	14+34.88	0.00′	522.61	522.62
CL. BRG. PIER	14+46.66	0.00′	522.74	522.74
L	14+56.66	0.00′	522.84	522.86
M	14+66.66	0.00′	522.92	522.97
N	14+76.66	0.00′	522.99	523.07
O	14+86.66	0.00′	523.04	523.17
P	14+96.66	0.00′	523.08	523.25
Q	15+06.66	0.00′	523.11	523.31
R	15+16.66	0.00′	523.12	523.33
S	15+26.66	0.00′	523.11	523.33
T	15+36.66	0.00′	523.09	523.30
U	15+46.66	0.00′	523.06	523.23
V	15+56.66	0.00′	523.02	523.13
W	15+66.66	0.00′	522.96	523.01
CL. BRG. E. ABUT.	15+74.12	0.00′	522.90	522.90
BK. E. ABUT.	15+76.00	0.00′	522.89	522.89



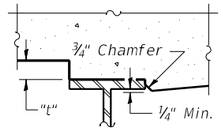
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on this sheet and on sheet 4 of 32.



At Minimum Fillet



At Maximum Fillet

FILLET HEIGHTS

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 4 of 32, minus slab thickness, equals the fillet heights "t" above top flange of beams.

MODEL: 3 Top of Slab El 1
FILE NAME: P:\5XX\54XX-55XX\5574 • PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\3 Top of Slab Elev 1.dgn

5/8/2023 11:49:05 AM

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED – RBT	REVISED –	
	CHECKED – JS	REVISED –	
PLOT SCALE =	DRAWN – RBT	REVISED –	
PLOT DATE =	CHECKED – KAS	REVISED –	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 100–0105
SHEET 3 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	39
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	13+26.43	-15.00'	520.24	520.24
CL. BRG. W. ABUT.	13+28.31	-15.00'	520.29	520.29
A	13+38.31	-15.00'	520.55	520.61
B	13+48.31	-15.00'	520.80	520.90
C	13+58.31	-15.00'	521.04	521.17
D	13+68.31	-15.00'	521.26	521.41
E	13+78.31	-15.00'	521.47	521.62
F	13+88.31	-15.00'	521.66	521.80
G	13+98.31	-15.00'	521.84	521.96
H	14+08.31	-15.00'	522.00	522.09
I	14+18.31	-15.00'	522.15	522.21
J	14+28.31	-15.00'	522.29	522.31
K	14+38.31	-15.00'	522.41	522.42
CL. BRG. PIER	14+50.09	-15.00'	522.53	522.53
L	14+60.09	-15.00'	522.63	522.64
M	14+70.09	-15.00'	522.70	522.75
N	14+80.09	-15.00'	522.76	522.85
O	14+90.09	-15.00'	522.81	522.94
P	15+00.09	-15.00'	522.85	523.02
Q	15+10.09	-15.00'	522.87	523.07
R	15+20.09	-15.00'	522.87	523.09
S	15+30.09	-15.00'	522.86	523.08
T	15+40.09	-15.00'	522.84	523.04
U	15+50.09	-15.00'	522.80	522.97
V	15+60.09	-15.00'	522.75	522.87
W	15+70.09	-15.00'	522.69	522.74
CL. BRG. E. ABUT.	15+77.55	-15.00'	522.63	522.63
BK. E. ABUT.	15+79.43	-15.00'	522.61	522.61

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	13+25.06	-9.00'	520.31	520.31
CL. BRG. W. ABUT.	13+26.94	-9.00'	520.36	520.36
A	13+36.94	-9.00'	520.63	520.68
B	13+46.94	-9.00'	520.88	520.98
C	13+56.94	-9.00'	521.12	521.25
D	13+66.94	-9.00'	521.34	521.49
E	13+76.94	-9.00'	521.55	521.70
F	13+86.94	-9.00'	521.74	521.89
G	13+96.94	-9.00'	521.92	522.04
H	14+06.94	-9.00'	522.09	522.18
I	14+16.94	-9.00'	522.24	522.30
J	14+26.94	-9.00'	522.38	522.41
K	14+36.94	-9.00'	522.50	522.51
CL. BRG. PIER	14+48.72	-9.00'	522.63	522.63
L	14+58.72	-9.00'	522.72	522.74
M	14+68.72	-9.00'	522.80	522.85
N	14+78.72	-9.00'	522.87	522.95
O	14+88.72	-9.00'	522.92	523.04
P	14+98.72	-9.00'	522.95	523.12
Q	15+08.72	-9.00'	522.97	523.17
R	15+18.72	-9.00'	522.98	523.20
S	15+28.72	-9.00'	522.98	523.20
T	15+38.72	-9.00'	522.95	523.16
U	15+48.72	-9.00'	522.92	523.09
V	15+58.72	-9.00'	522.87	522.98
W	15+68.72	-9.00'	522.81	522.86
CL. BRG. E. ABUT.	15+76.18	-9.00'	522.75	522.75
BK. E. ABUT.	15+78.06	-9.00'	522.74	522.74

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	13+23.69	-3.00'	520.36	520.36
CL. BRG. W. ABUT.	13+25.57	-3.00'	520.42	520.42
A	13+35.57	-3.00'	520.68	520.74
B	13+45.57	-3.00'	520.94	521.03
C	13+55.57	-3.00'	521.18	521.31
D	13+65.57	-3.00'	521.40	521.55
E	13+75.57	-3.00'	521.61	521.77
F	13+85.57	-3.00'	521.81	521.95
G	13+95.57	-3.00'	521.99	522.11
H	14+05.57	-3.00'	522.16	522.25
I	14+15.57	-3.00'	522.31	522.37
J	14+25.57	-3.00'	522.45	522.48
K	14+35.57	-3.00'	522.58	522.58
CL. BRG. PIER	14+47.35	-3.00'	522.71	522.71
L	14+57.35	-3.00'	522.80	522.82
M	14+67.35	-3.00'	522.88	522.93
N	14+77.35	-3.00'	522.95	523.03
O	14+87.35	-3.00'	523.00	523.13
P	14+97.35	-3.00'	523.04	523.21
Q	15+07.35	-3.00'	523.06	523.26
R	15+17.35	-3.00'	523.07	523.29
S	15+27.35	-3.00'	523.07	523.29
T	15+37.35	-3.00'	523.05	523.25
U	15+47.35	-3.00'	523.02	523.18
V	15+57.35	-3.00'	522.97	523.08
W	15+67.35	-3.00'	522.91	522.96
CL. BRG. E. ABUT.	15+74.81	-3.00'	522.85	522.85
BK. E. ABUT.	15+76.69	-3.00'	522.84	522.84

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	13+22.31	3.00'	520.33	520.33
CL. BRG. W. ABUT.	13+24.19	3.00'	520.38	520.38
A	13+34.19	3.00'	520.65	520.70
B	13+44.19	3.00'	520.90	521.00
C	13+54.19	3.00'	521.14	521.27
D	13+64.19	3.00'	521.37	521.52
E	13+74.19	3.00'	521.58	521.74
F	13+84.19	3.00'	521.78	521.93
G	13+94.19	3.00'	521.97	522.09
H	14+04.19	3.00'	522.14	522.22
I	14+14.19	3.00'	522.29	522.35
J	14+24.19	3.00'	522.43	522.46
K	14+34.19	3.00'	522.56	522.57
CL. BRG. PIER	14+45.98	3.00'	522.69	522.69
L	14+55.98	3.00'	522.79	522.81
M	14+65.98	3.00'	522.87	522.92
N	14+75.98	3.00'	522.94	523.02
O	14+85.98	3.00'	522.99	523.12
P	14+95.98	3.00'	523.03	523.20
Q	15+05.98	3.00'	523.06	523.26
R	15+15.98	3.00'	523.07	523.29
S	15+25.98	3.00'	523.07	523.29
T	15+35.98	3.00'	523.05	523.26
U	15+45.98	3.00'	523.02	523.19
V	15+55.98	3.00'	522.98	523.09
W	15+65.98	3.00'	522.92	522.97
CL. BRG. E. ABUT.	15+73.43	3.00'	522.86	522.86
BK. E. ABUT.	15+75.31	3.00'	522.85	522.85

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	13+20.94	9.00'	520.20	520.20
CL. BRG. W. ABUT.	13+22.82	9.00'	520.25	520.25
A	13+32.82	9.00'	520.52	520.57
B	13+42.82	9.00'	520.78	520.88
C	13+52.82	9.00'	521.02	521.15
D	13+62.82	9.00'	521.25	521.40
E	13+72.82	9.00'	521.46	521.62
F	13+82.82	9.00'	521.66	521.81
G	13+92.82	9.00'	521.85	521.97
H	14+02.82	9.00'	522.02	522.11
I	14+12.82	9.00'	522.18	522.24
J	14+22.82	9.00'	522.32	522.35
K	14+32.82	9.00'	522.45	522.46
CL. BRG. PIER	14+44.60	9.00'	522.59	522.59
L	14+54.60	9.00'	522.69	522.70
M	14+64.60	9.00'	522.77	522.82
N	14+74.60	9.00'	522.84	522.93
O	14+84.60	9.00'	522.90	523.02
P	14+94.60	9.00'	522.94	523.11
Q	15+04.60	9.00'	522.97	523.17
R	15+14.60	9.00'	522.98	523.20
S	15+24.60	9.00'	522.98	523.20
T	15+34.60	9.00'	522.96	523.17
U	15+44.60	9.00'	522.94	523.10
V	15+54.60	9.00'	522.89	523.01
W	15+64.60	9.00'	522.83	522.89
CL. BRG. E. ABUT.	15+72.06	9.00'	522.78	522.78
BK. E. ABUT.	15+73.94	9.00'	522.77	522.77

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	13+19.57	15.00'	520.05	520.05
CL. BRG. W. ABUT.	13+21.45	15.00'	520.10	520.10
A	13+31.45	15.00'	520.37	520.43
B	13+41.45	15.00'	520.63	520.73
C	13+51.45	15.00'	520.88	521.01
D	13+61.45	15.00'	521.11	521.26
E	13+71.45	15.00'	521.33	521.49
F	13+81.45	15.00'	521.53	521.68
G	13+91.45	15.00'	521.72	521.84
H	14+01.45	15.00'	521.89	521.98
I	14+11.45	15.00'	522.05	522.11
J	14+21.45	15.00'	522.20	522.23
K	14+31.45	15.00'	522.33	522.34
CL. BRG. PIER	14+43.23	15.00'	522.46	522.47
L	14+53.23	15.00'	522.56	522.58
M	14+63.23	15.00'	522.65	522.70
N	14+73.23	15.00'	522.72	522.81
O	14+83.23	15.00'	522.78	522.91
P	14+93.23	15.00'	522.82	523.00
Q	15+03.23	15.00'	522.85	523.06
R	15+13.23	15.00'	522.87	523.09
S	15+23.23	15.00'	522.87	523.09
T	15+33.23	15.00'	522.86	523.07
U	15+43.23	15.00'	522.83	523.00
V	15+53.23	15.00'	522.79	522.91
W	15+63.23	15.00'	522.73	522.79
CL. BRG. E. ABUT.	15+70.69	15.00'	522.68	522.69
BK. E. ABUT.	15+72.57	15.00'	522.67	522.67

MODEL: 4 Top of Slab El 2
FILE NAME: P:\5XXX\54XX-55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\4 Top of Slab Elev 2.dgn

2/18/2023 7:59:16 AM

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 100-0105
SHEET 4 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	40
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			

NORTH EDGE OF SHOULDER

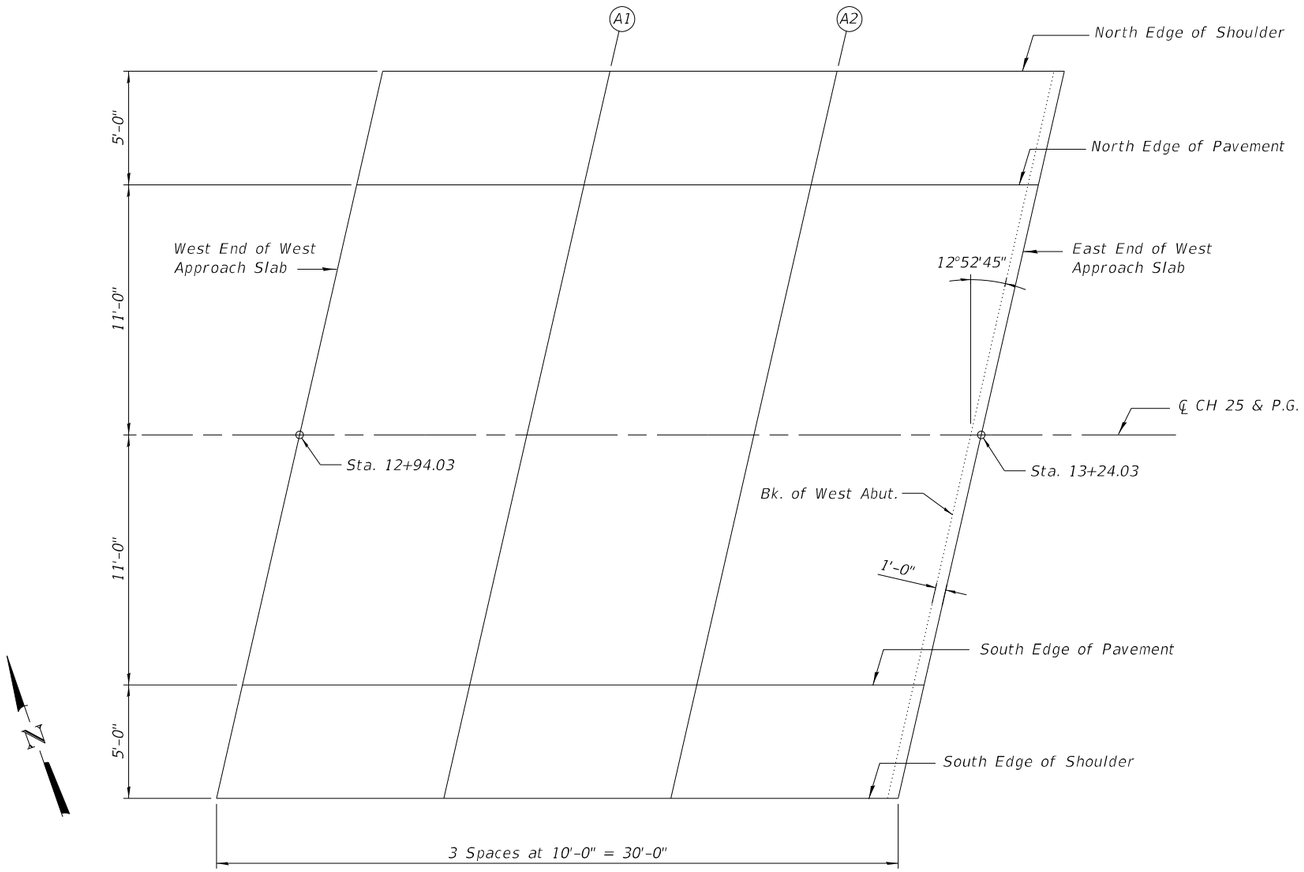
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	12+97.68	-16.00'	519.37
A1	13+07.68	-16.00'	519.68
A2	13+17.68	-16.00'	519.97
E. End West Appr. Slab	13+27.68	-16.00'	520.25

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	12+96.54	-11.00'	519.44
A1	13+06.54	-11.00'	519.75
A2	13+16.54	-11.00'	520.04
E. End West Appr. Slab	13+26.54	-11.00'	520.32

CENTERLINE CH 25 AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	12+94.03	0.00'	519.52
A1	13+04.03	0.00'	519.84
A2	13+14.03	0.00'	520.13
E. End West Appr. Slab	13+24.03	0.00'	520.42



PLAN

(West Approach)

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	12+91.51	11.00'	519.28
A1	13+01.51	11.00'	519.59
A2	13+11.51	11.00'	519.90
E. End West Appr. Slab	13+21.51	11.00'	520.18

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	12+90.37	16.00'	519.14
A1	13+00.37	16.00'	519.46
A2	13+10.37	16.00'	519.76
E. End West Appr. Slab	13+20.37	16.00'	520.05

MODEL: 5 Top of Approach Slab El West
FILE NAME: P:\5XX\54XX\55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CAD\Bridge\5 Approach Slab Elev 1.dgn
2/18/2023 7:59:20 AM

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 100-0105
SHEET 5 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	41
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SHOULDER

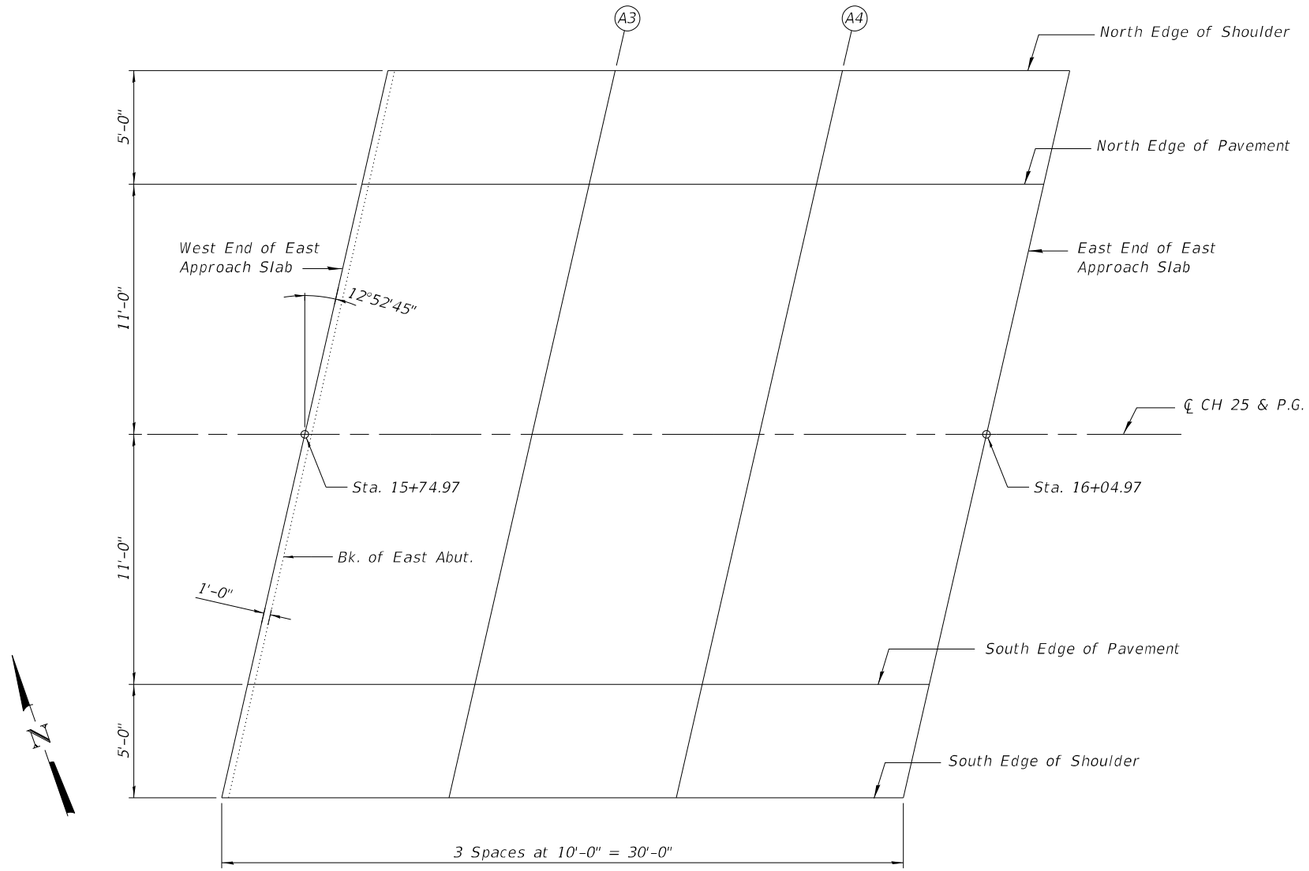
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	15+78.63	-16.00'	522.60
A3	15+88.63	-16.00'	522.51
A4	15+98.63	-16.00'	522.40
E. End East Appr. Slab	16+08.63	-16.00'	522.28

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	15+77.49	-11.00'	522.71
A3	15+87.49	-11.00'	522.62
A4	15+97.49	-11.00'	522.52
E. End East Appr. Slab	16+07.49	-11.00'	522.40

CENTERLINE CH 25 AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	15+74.97	0.00'	522.90
A3	15+84.97	0.00'	522.81
A4	15+94.97	0.00'	522.71
E. End East Appr. Slab	16+04.97	0.00'	522.59



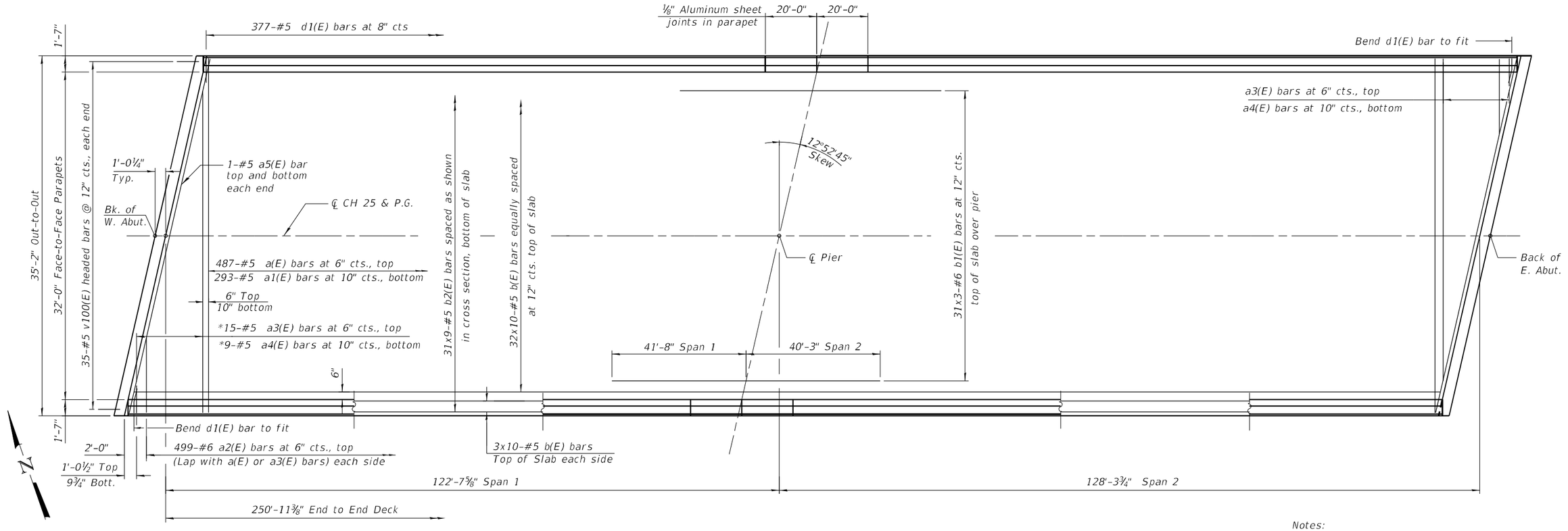
PLAN
(East Approach)

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	15+72.46	11.00'	522.75
A3	15+82.46	11.00'	522.67
A4	15+92.46	11.00'	522.57
E. End East Appr. Slab	16+02.46	11.00'	522.46

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	15+71.32	16.00'	522.66
A3	15+81.32	16.00'	522.58
A4	15+91.32	16.00'	522.48
E. End East Appr. Slab	16+01.32	16.00'	522.37



PLAN

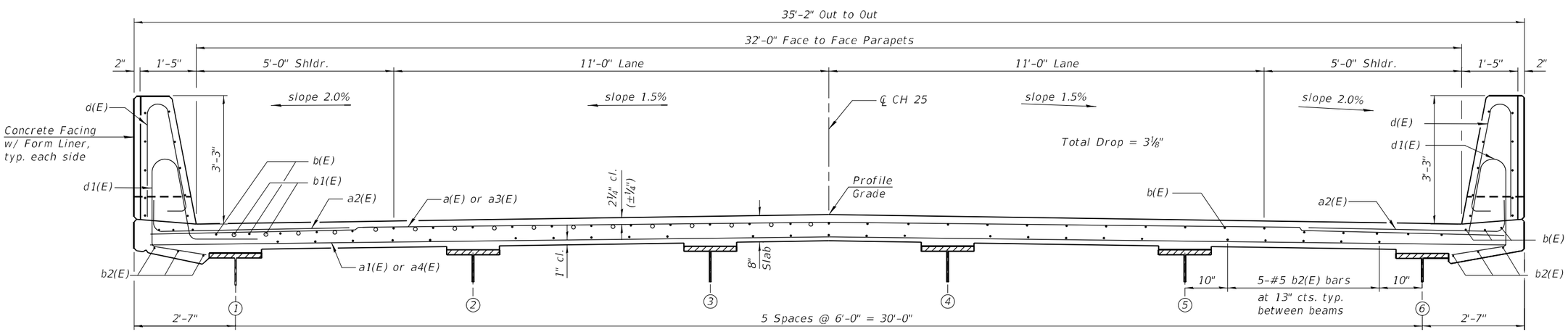
MINIMUM BAR LAP

#5 BAR = 3'-6"
#6 BAR = 3'-7"
* See Field Cutting Diagram on sheet 8 of 32.

Notes:

See sheet 8 of 32 for superstructure details and Bill of Material.

Bars indicated thus 32 x 10 - #5 etc. indicates 32 lines of bars with 10 lengths per line.



NEAR PIER

NEAR MIDSPAN

CROSS SECTION

(Looking East)

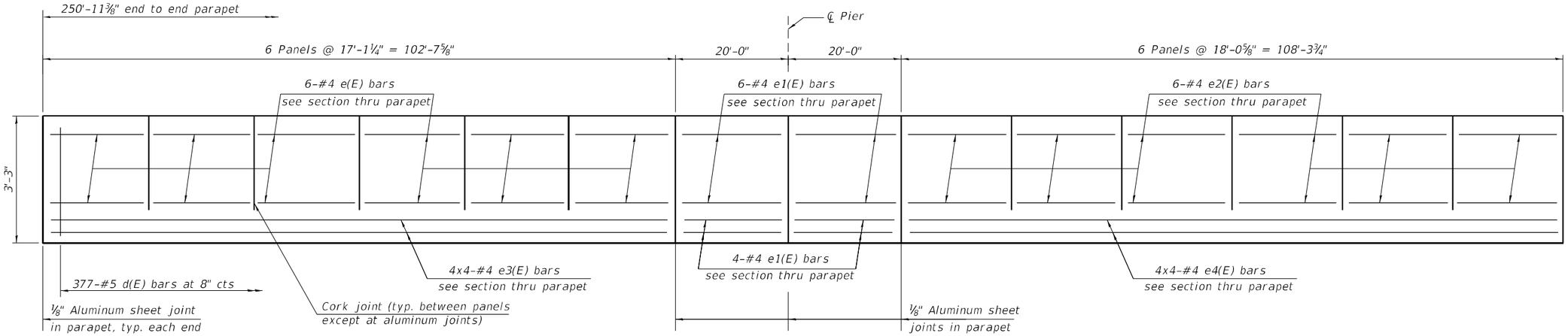
CIVIL DESIGN,INC. WBE / DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME =	DESIGNED - RBT	REVISED -
		CHECKED - JS	REVISED -
	PLOT SCALE =	DRAWN - RBT	REVISED -
	PLOT DATE =	CHECKED - KAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

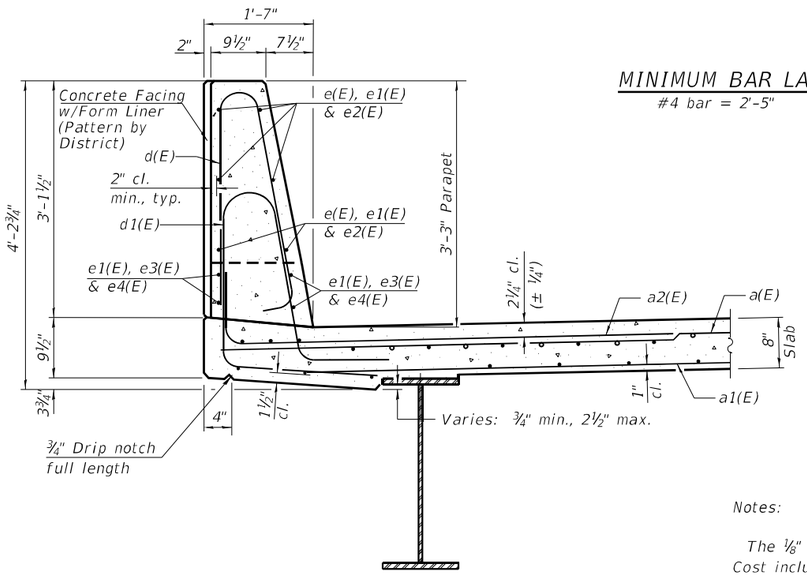
SUPERSTRUCTURE
STRUCTURE NO. 100-0105
SHEET 7 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	43
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

MODEL: 7 Superstructure
FILE NAME: P:\5XX\154XX-55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\124-Structures\CAD\Bridge\7 Superstructure 1.dgn
5/8/2023 11:50:58 AM



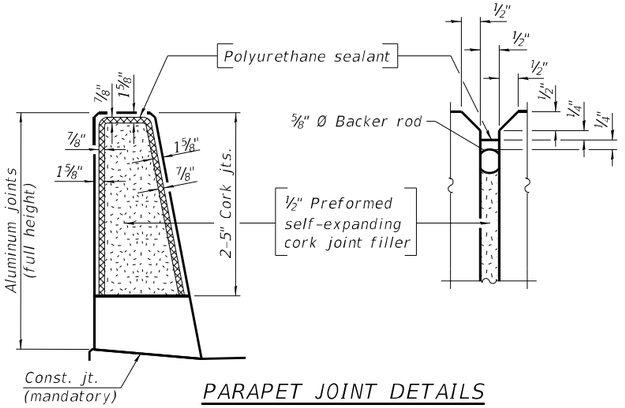
INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET

MINIMUM BAR LAP

#4 bar = 2'-5"



PARAPET JOINT DETAILS

Notes:

The ⅛" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

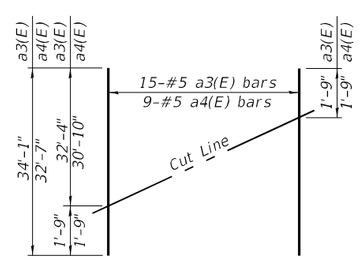
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

See aesthetic drawings for additional parapet details and finishes.

SUPERSTRUCTURE BILL OF MATERIAL

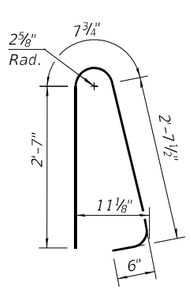
Bar	No.	Size	Length	Shape
a(E)	487	#5	34'-8"	
a1(E)	293	#5	34'-8"	
a2(E)	998	#6	8'-4"	
a3(E)	15	#5	34'-1"	
a4(E)	9	#5	32'-7"	
a5(E)	4	#5	35'-9"	
b(E)	380	#5	28'-3"	
b1(E)	93	#6	29'-9"	
b2(E)	279	#5	31'-0"	
d(E)	754	#5	6'-5"	
d1(E)	754	#5	7'-9"	
e(E)	72	#4	16'-9"	
e1(E)	40	#4	19'-8"	
e2(E)	72	#4	17'-8"	
e3(E)	32	#4	27'-5"	
e4(E)	32	#4	28'-10"	
m10(E)	10	#6	35'-8"	
m11(E)	40	#6	5'-8"	
m12(E)	16	#6	2'-3"	
s10(E)	62	#5	9'-10"	
s11(E)	62	#5	12'-10"	
v100(E)	70	#5	3'-1"	
Concrete Superstructure			Cu. Yd.	347.1
Reinforcement Bars, Epoxy Coated			Pound	83,220

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

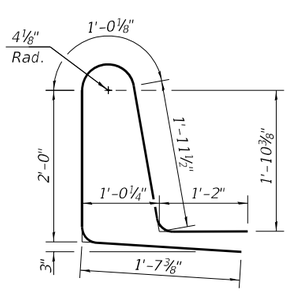


FIELD CUTTING DIAGRAM

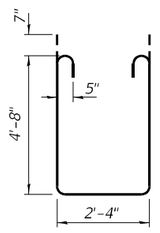
Order a3(E) and a4(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.



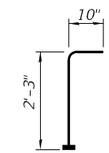
BAR d(E)



BAR d1(E)

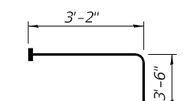


BAR s11(E)



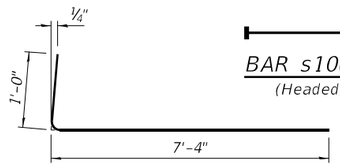
BAR v100(E)

(Headed)



BAR s10(E)

(Headed)



BAR a2(E)

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

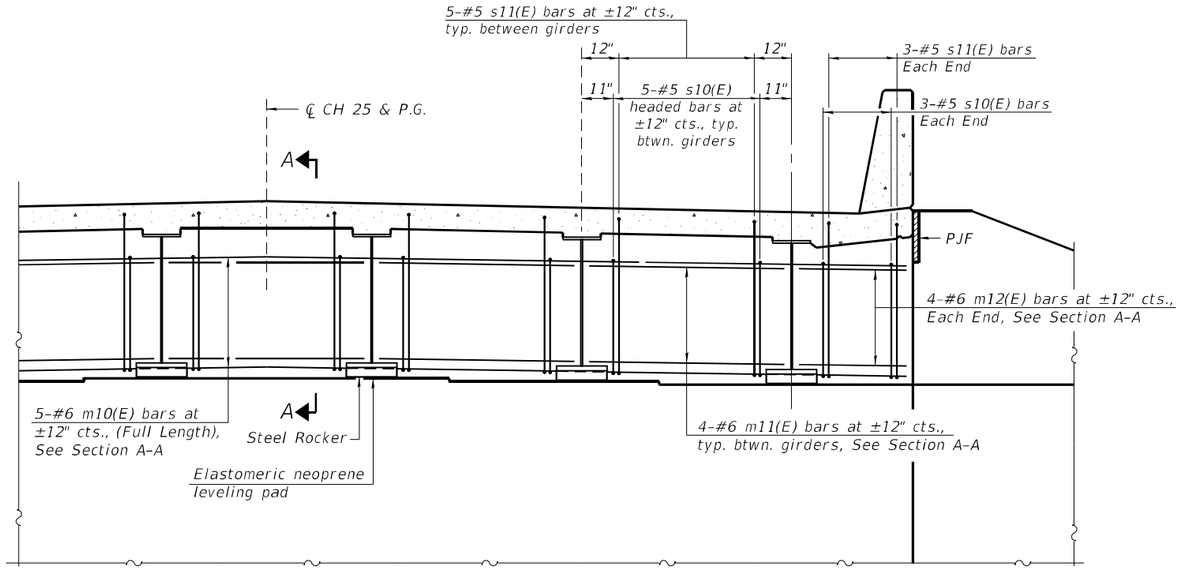
CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 100-0105
SHEET 8 OF 32 SHEETS

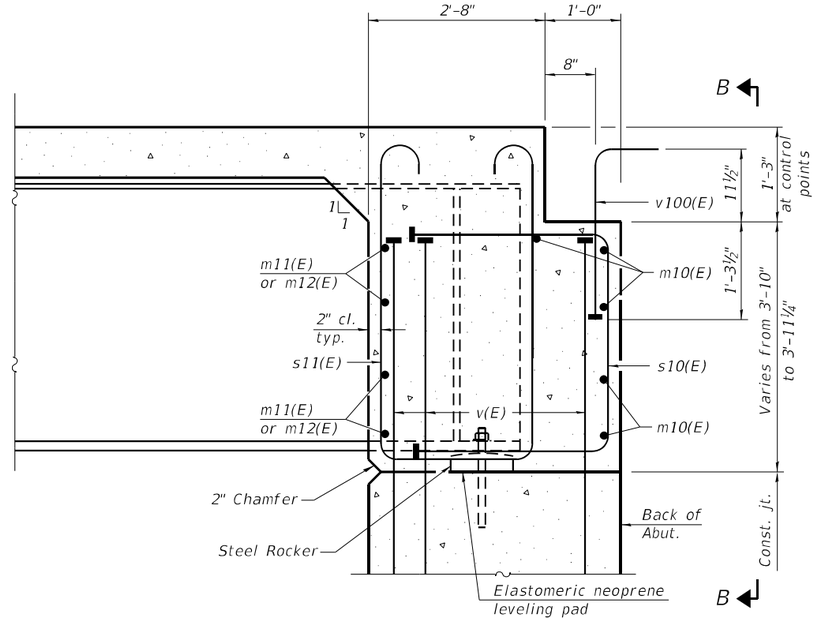
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	44
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

MODEL: 8 Superstructure Detail
FILE NAME: P:\5XX\54XX-53XX\5574 - PTB 203-048 09 Veenstra Kimm\WO 1124-Structures\CADD\Bridge\8 Superstructure 2.dgn
5/8/2023 11:52:29 AM



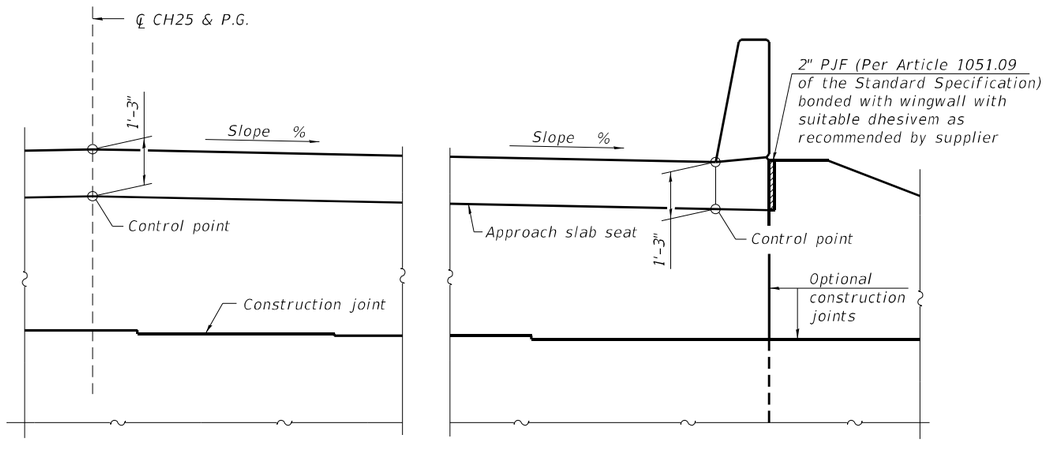
DIAPHRAGM AT ABUTMENT

(Looking East at East Abutment, West Abutment Similar)



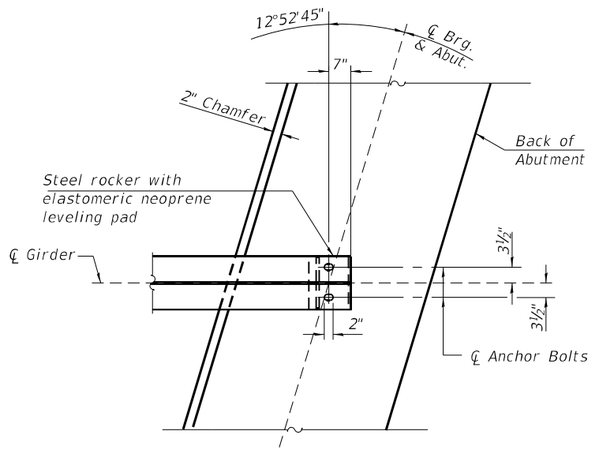
SECTION A-A

(at Rt. ℄'s)



VIEW B-B

(Looking East)



PLAN AT ABUTMENT

(Showing bottom flange of girder)

Notes:

See sheet 8 of 32 for superstructure details and Bill of Material.

The s10(E) and s11(E) bars shall be placed parallel to the girders. Spacing for these bars shall be at right angles to the girders.

The approach slab seat shall have a constant slope determined from the control points shown.

Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 32.

For bearing details see sheet 15 of 32.

Girders shall be braced for stability during erection and remain braced until deck is poured and cured.

MODEL: 9 Diaphragm Details
FILE NAME: P:\5XX\5X4XX-55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\9 Diaphragm Detail.dgn

5/8/2023 11:54:05 AM

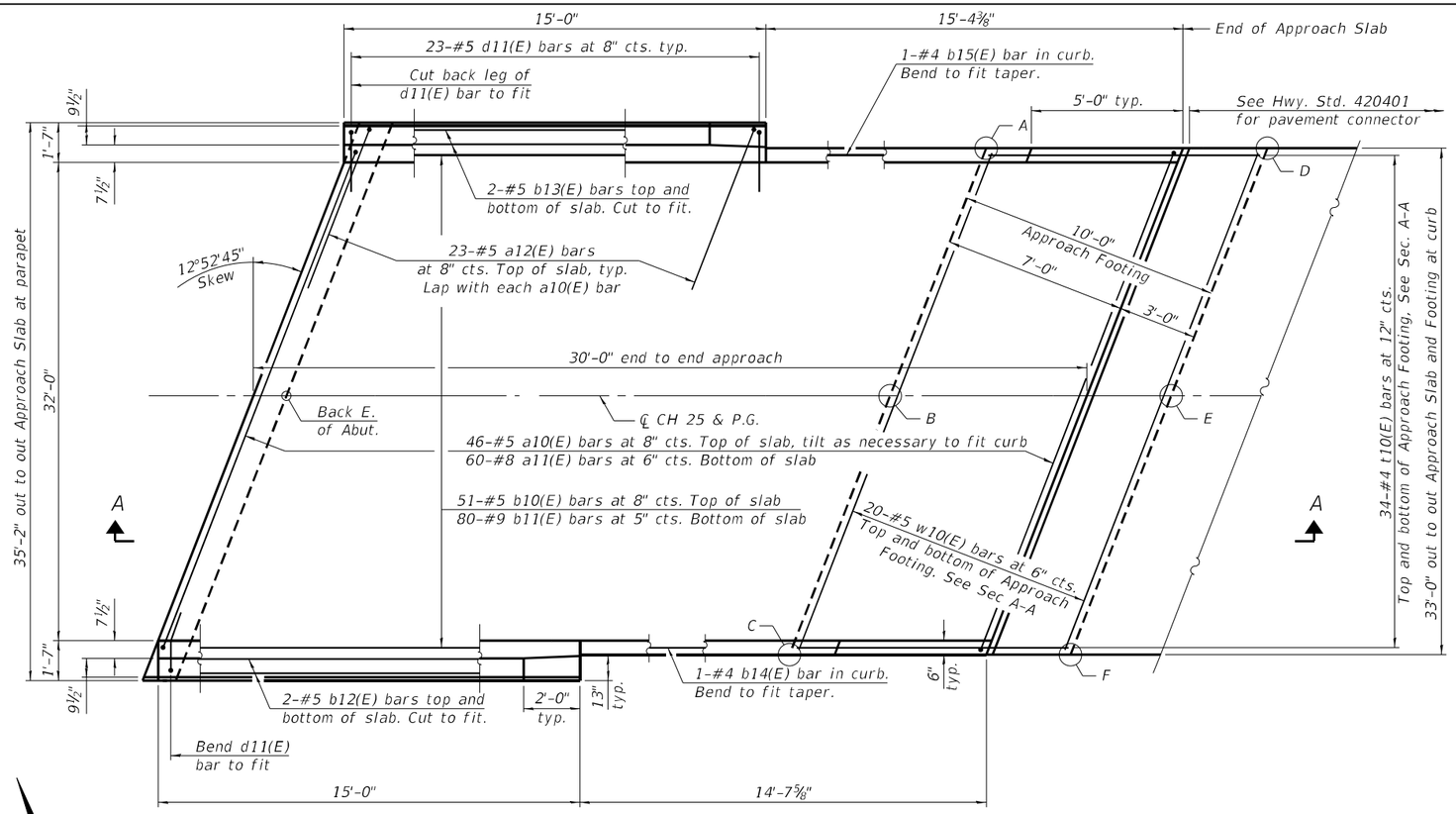
CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -
	CHECKED - JS	REVISED -
PLOT SCALE =	DRAWN - RBT	REVISED -
PLOT DATE =	CHECKED - KAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 100-0105
SHEET 9 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	45
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

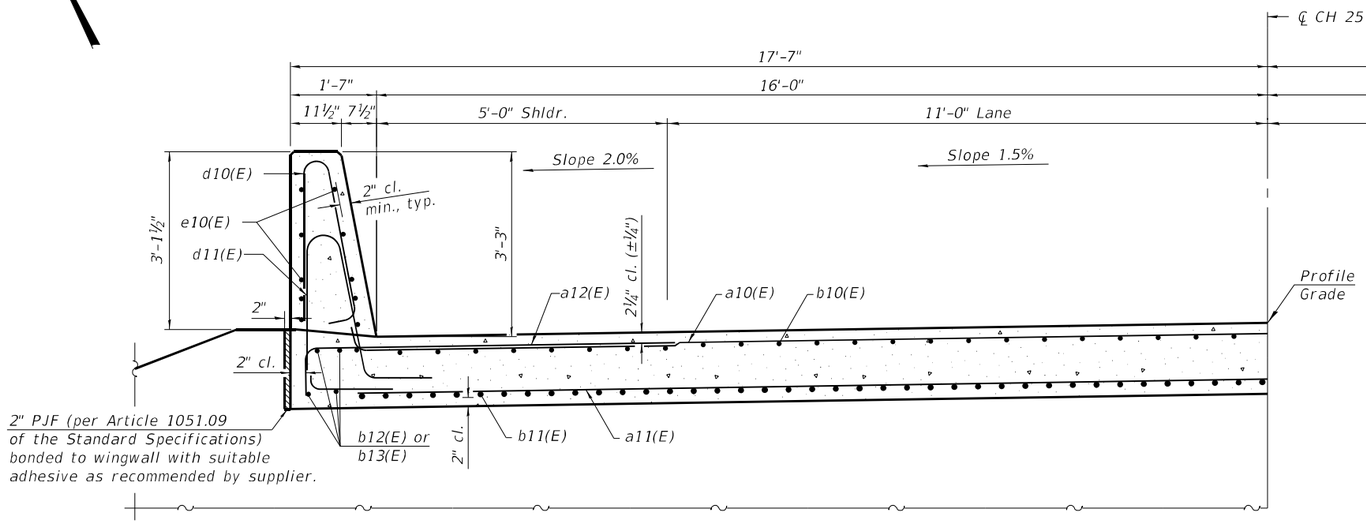


PLAN

(Showing East Approach, West Approach similar)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point/ Location	West Approach		Point/ Location	East Approach	
	Top	Bottom		Top	Bottom
A-NE	518.34	517.51	A-NW	521.11	520.28
B-ECL	518.50	517.67	B-WCL	521.43	520.59
C-SE	518.11	517.27	C-SW	521.19	520.36
D-NW	518.02	517.19	D-NE	520.98	520.15
E-WCL	518.18	517.34	E-ECL	521.31	520.47
F-SW	517.78	516.94	F-SE	521.08	520.24



NEAR ABUTMENT

AT APPROACH FOOTING

CROSS SECTION

(Looking East)

MODEL: 11 Approach Slab Details Plan
FILE NAME: P:\5XX\54XX\5XX\5574 • PTB 203-048 09 Veenstra Kimm\WO 1\24-Structures\CADBridge\10 Approach Slab Plan.dgn
5/8/2023 11:55:42 AM

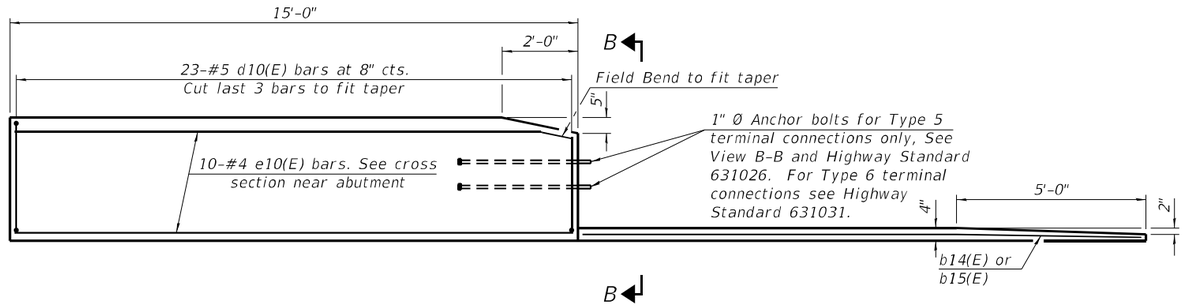
CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

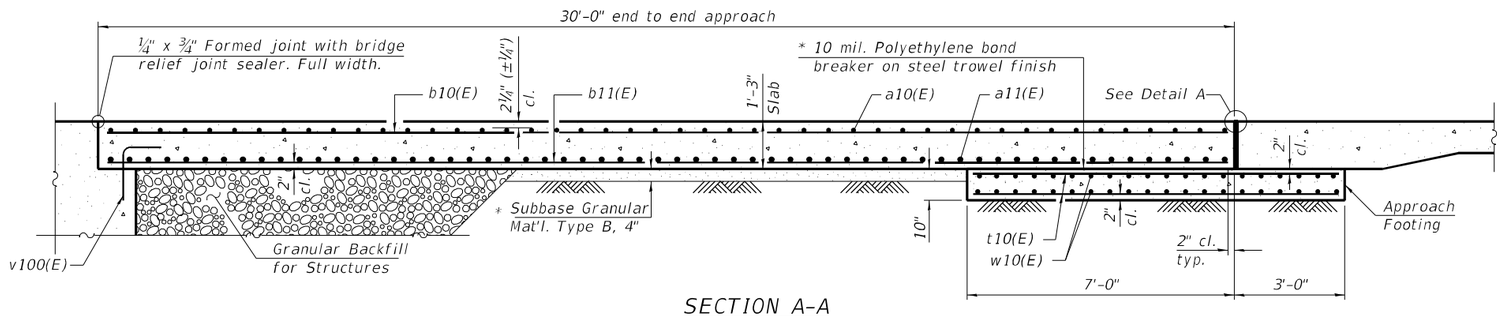
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 100-0105
SHEET 10 OF 32 SHEETS

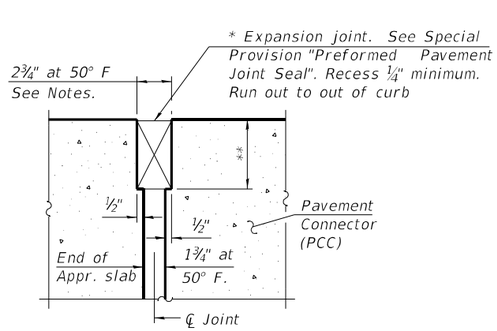
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	46
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



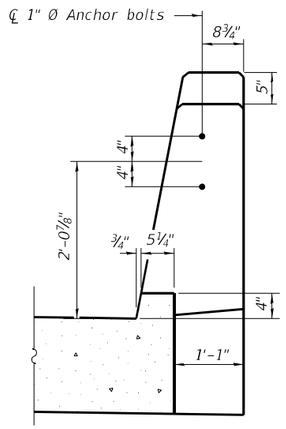
INSIDE ELEVATION OF PARAPET AND CURB



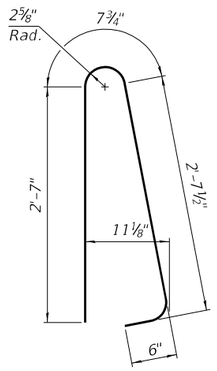
SECTION A-A



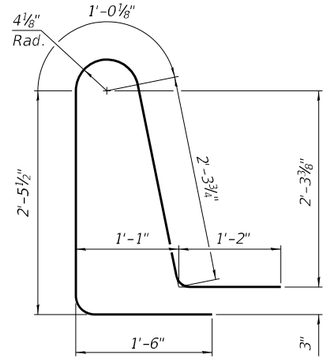
DETAIL A
(@ Rt. ℄'s)



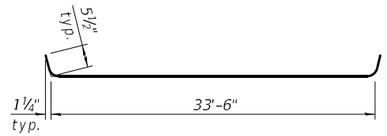
VIEW B-B



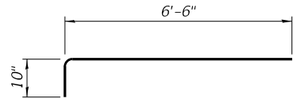
BAR d10(E)



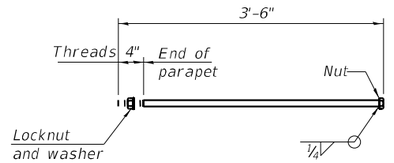
BAR d11(E)



BAR a10(E)



BAR a12(E)



*1" Ø ANCHOR BOLT
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet concrete shall be paid for as Concrete Superstructure.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 32.

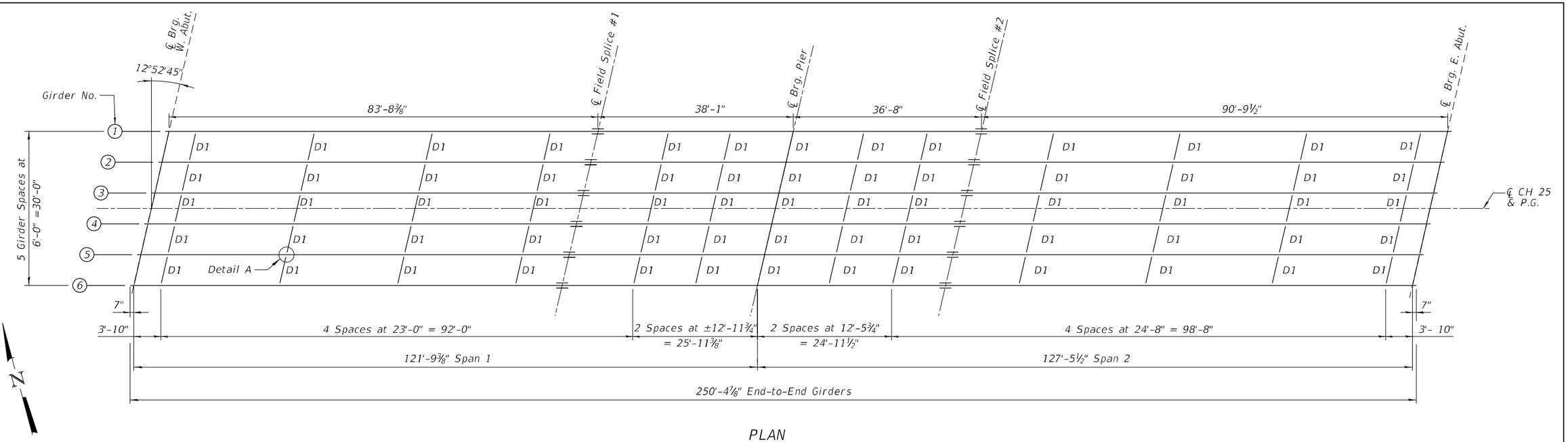
* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

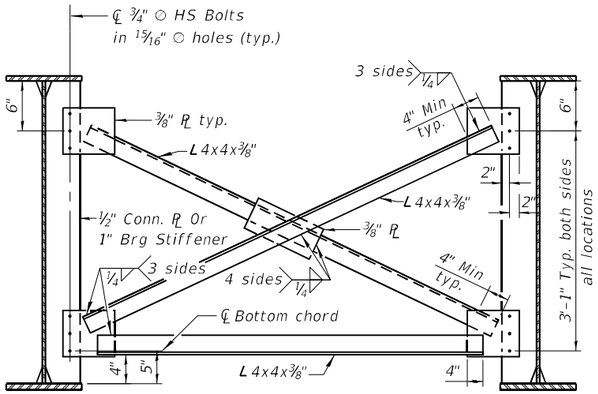
TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	92	#5	34'-4"	
a11(E)	120	#8	33'-6"	
a12(E)	92	#5	7'-4"	
b10(E)	102	#5	29'-8"	
b11(E)	160	#9	29'-8"	
b12(E)	8	#5	14'-8"	
b13(E)	8	#5	14'-8"	
b14(E)	2	#4	14'-4"	
b15(E)	2	#4	15'-0"	
d10(E)	92	#5	6'-5"	
d11(E)	92	#5	8'-6"	
e10(E)	40	#4	14'-8"	
t10(E)	136	#4	9'-11"	
w10(E)	80	#5	33'-6"	
Concrete Superstructure			Cu. Yd.	8.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	95.3
Concrete Structures			Cu. Yd.	20.9
Reinforcement Bars, Epoxy Coated			Pound	39,830

(Sheet 2 of 2)



PLAN

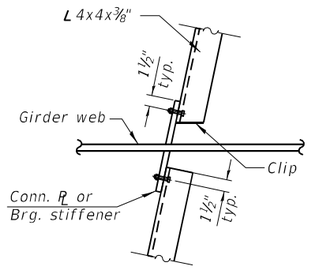


TYPICAL INTERIOR CROSS-FRAME D1

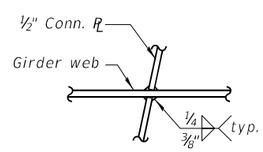
(65 Required)

Note:

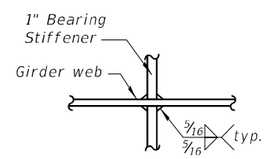
Two hardened washers required for each set of oversized holes.



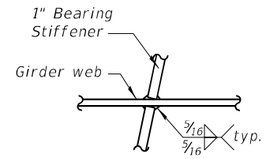
DETAIL A



At Conn. PL



At Abutment



At Pier

WEB WELD DETAIL

Note:

All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

AASHTO M270 grade 50 steel shall be used for all flange plates, web plates, bearing stiffeners and connection plates.

MODEL: 13 Framing Plan and Detail
FILE NAME: X:\SXXX\34XX-55XX\5574 • PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CAD\Bridge\12 Framing.dgn
5/10/2023 1:52:44 PM

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

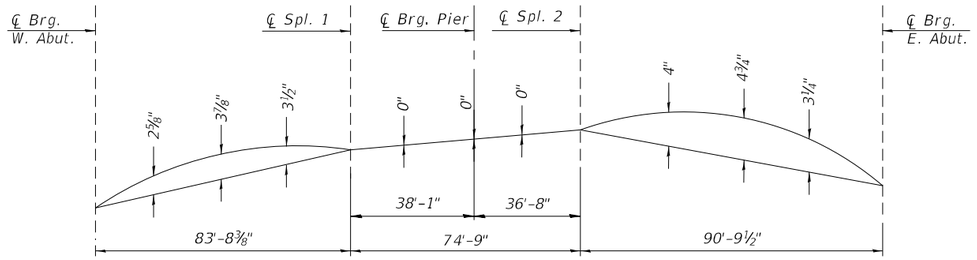
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN & DETAILS
STRUCTURE NO. 100-0105
SHEET 12 OF 32 SHEETS

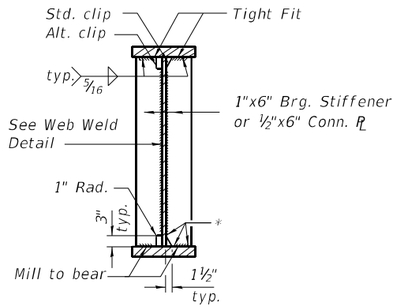
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	48
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

TOP OF WEB ELEVATIONS (FOR FABRICATION ONLY)

Location / Beam	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6
℄ Brg. W. Abut.	519.50	519.57	519.62	519.59	519.46	519.31
℄ Brg. Splice #1	521.22	521.31	521.38	521.36	521.24	521.11
℄ Brg. Pier	521.62	521.71	521.79	521.78	521.67	521.55
℄ Brg. Splice #2	522.00	522.10	522.18	522.18	522.08	521.96
℄ Brg. E. Abut.	521.84	521.96	522.06	522.07	521.99	521.89

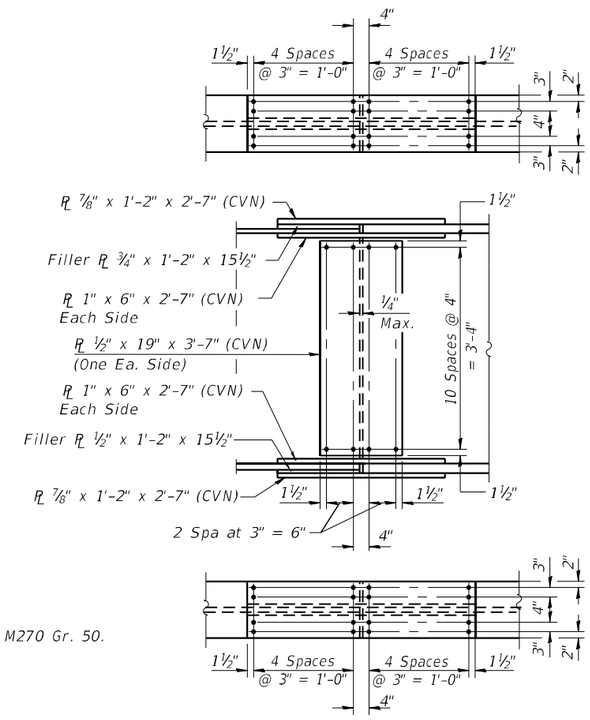


CAMBER DIAGRAM



WELD AND CLIP DETAILS

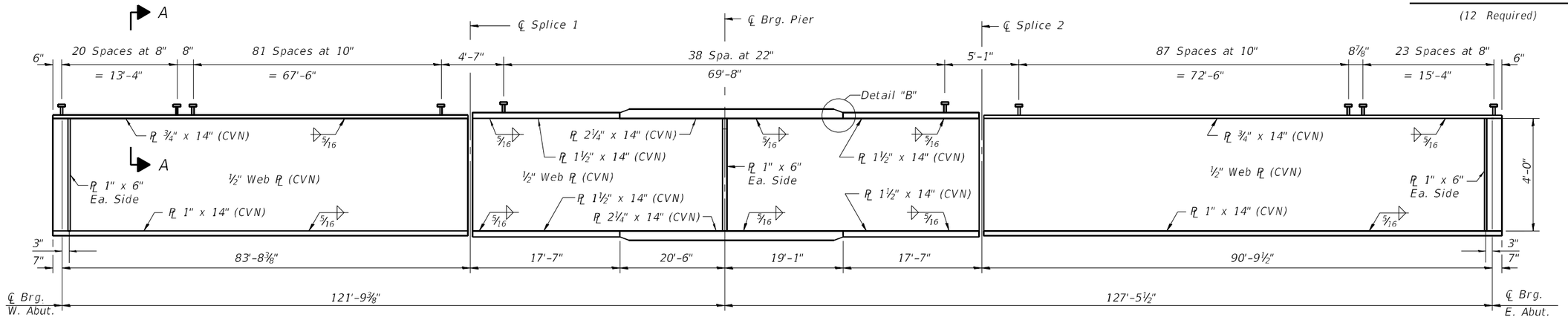
* Stop welds ¼" (±⅛") from edge as shown, typ.



Note:
All splice plates, except fill plates, shall be M270 Gr. 50.

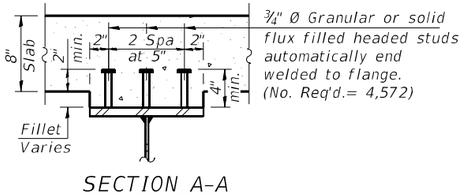
FIELD SPLICE DETAIL

(12 Required)



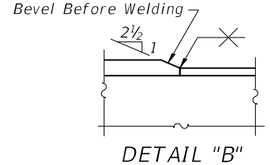
GIRDER ELEVATION

"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.



¾" Ø Granular or solid flux filled headed studs automatically end welded to flange. (No. Req'd.= 4,572)

SECTION A-A



DETAIL "B"

MODEL: 14 Girder Elevation and Detail
FILE NAME: P:\SXX\54XX-55XX\5574 - PTB 203-048 09 Veenstra Kimm\WO 1124-Structures\CADD\Bridge\13 Girder Detail.dgn
5/8/2023 11:58:48 AM

CIVIL DESIGN, INC. WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER ELEVATION AND DETAILS
STRUCTURE NO. 100-0105
SHEET 13 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	49
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
Is	(in^4)	19095	44404	19095
Ic(n)	(in^4)	49454	–	49454
Ic(3n)	(in^4)	36251	–	36251
Ic(cr)	(in^4)	–	49850	–
Ss	(in^3)	823	1692	823
Sc(n)	(in^3)	1156	–	1156
Sc(3n)	(in^3)	1056	–	1056
Sc(cr)	(in^3)	–	1766	–
DC1	(k/')	0.86	0.91	0.86
MDC1	('k)	698	2043	830
DC2	(k/')	0.20	0.20	0.20
MDC2	('k)	175	452	209
DW	(k/')	0.27	0.27	0.27
MDW	('k)	236	610	282
LLDF		0.47	0.49	0.48
M_{L+IM}	('k)	1371	1802	1411
Mu (Strength I)	('k)	3846.1	7187.5	4192.0
Øf Mn	('k)	5732.6	7890.2	5632.3
fs DC1	(ksi)	10.2	14.5	12.1
fs DC2	(ksi)	2.0	3.1	2.4
fs DW	(ksi)	2.7	4.1	3.2
fs (L+IM)	(ksi)	14.2	12.2	14.6
fs (Service II)	(ksi)	33.4	37.6	36.7
0.95Rh Fyf	(ksi)	47.5	47.5	47.5
fs (Total)(Strength I)	(ksi)	–	–	–
Øf Fn	(ksi)	–	–	–
Vf	(k)	40.9	–	40.1

INTERIOR GIRDER REACTION TABLE				
		W. Abut.	Pier	E. Abut.
LLDF		0.69	0.67	0.69
OCF		–	–	–
RDC1	(k)	35.5	143.6	38.7
RDC2	(k)	8.5	32.2	9.2
RDW	(k)	11.4	43.5	12.4
R_{L+IM}	(k)	84.7	170.2	85.6
RTotal	(k)	140.1	389.5	145.9

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Mu (Strength I): Factored design moment (kip-ft.).
1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_{L+IM}

Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1/ Snc

fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.

fs (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{L+IM} / Sc(n) or M_{L+IM} / Sc(cr) as applicable.

fs (Service II): Sum of stresses as computed below (ksi).
fsDC1 + fsDC2 + fsDW + 1.3 fs($_{L+IM}$)

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs($_{L+IM}$)

Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

LLDF: Live Load distribution factor

OCF: Obtuse correction factor

MODEL: 15 Moment and Reaction Table
FILE NAME: P:\5XXX\54XX-55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1124-Structures\CAD\Bridge\14 Moment and Reaction Table.dgn
2/18/2023 8:00:15 AM

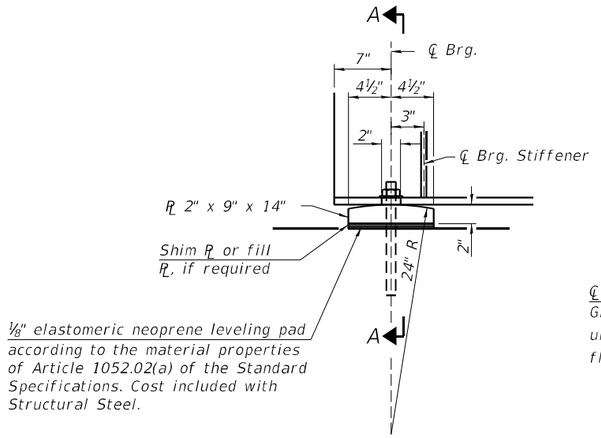
CIVIL DESIGN,INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

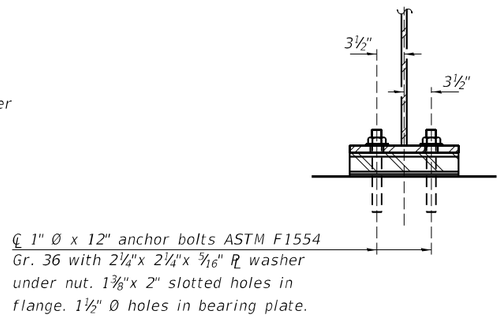
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NO. 100-0105
SHEET 14 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	50
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



ELEVATION AT ABUTMENT



SECTION A-A

FIXED BEARING

(12 Required)

Notes:

Anchor bolts shall be according to Article 521.06 of the Standard Specifications.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

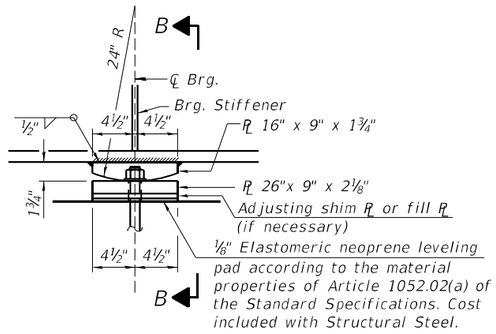
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. Cost included with Furnishing and Erecting Structural Steel.

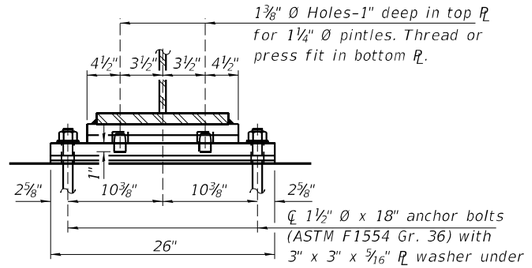
The anchor bolt sizes and grades shown at the pier constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

Fill plates are required at the locations shown in the table on this sheet and shall be placed as shown in the bearing details. Cost included with Furnishing and Erecting Structural Steel.

The structural steel bearing and fill plates shall confirm to the requirement of AASHTO M270 Grade 50.



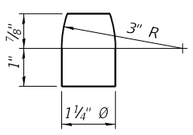
ELEVATION AT PIER



SECTION B-B

FIXED BEARING AT PIER

(6 Required)



PINTLE

BEARING FILL PLATES

Location	Thickness
West Abutment, Girder 3	5/8"
West Abutment, Girder 4	1/8"
East Abutment, Girder 4	1/8"
Pier, Girder 3	1/8"

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	24
Anchor Bolts, 1½"	Each	12

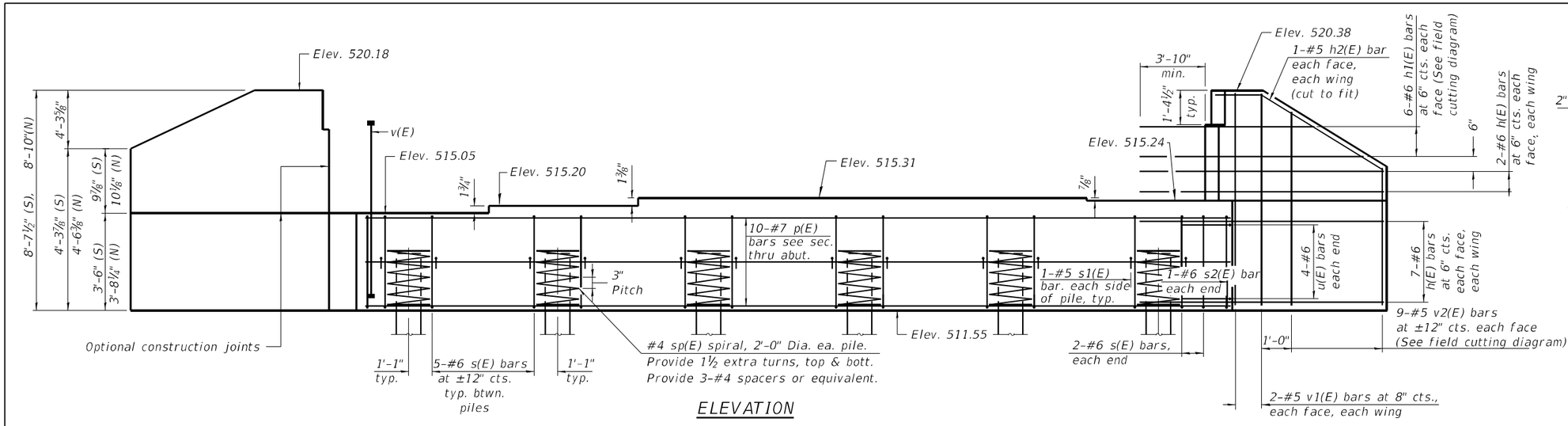
CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

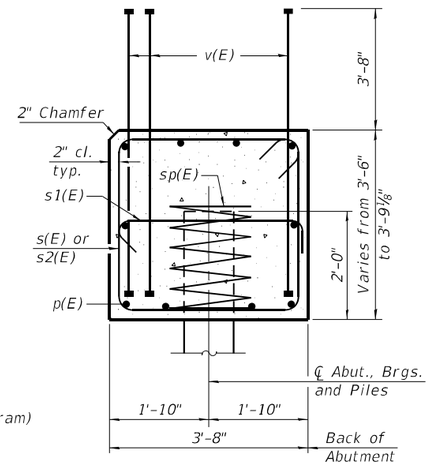
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 100-0105
SHEET 15 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	51
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

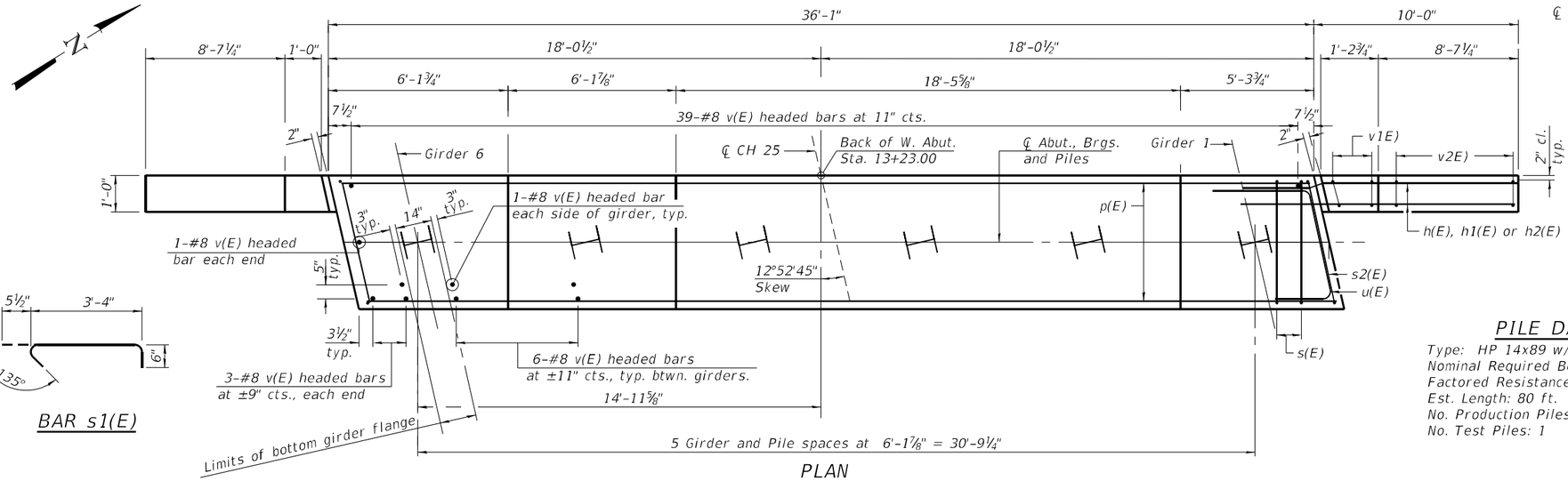


ELEVATION



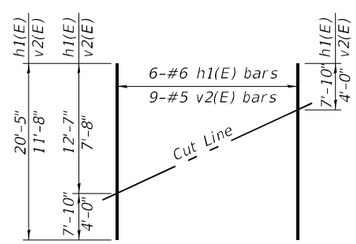
SEC. THRU ABUT.

Dimensions at right angles to abutment.



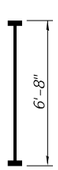
PLAN

BAR s1(E)



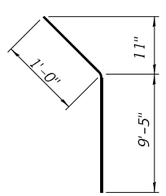
FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length.
Cut as shown and use remainder of bars in opposite wing.

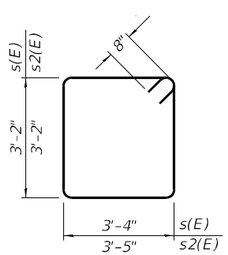


BAR v(E)

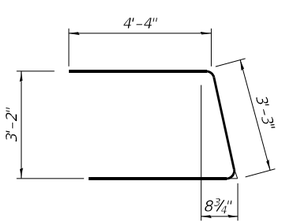
(Headed)



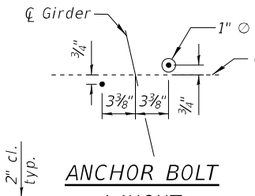
BAR h2(E)



BAR s(E) & s2(E)



BAR u(E)



ANCHOR BOLT LAYOUT

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	36	#6	13'-8"	
h1(E)	12	#6	20'-5"	
h2(E)	4	#5	10'-5"	
p(E)	10	#7	35'-9"	
s(E)	29	#6	14'-4"	
s1(E)	12	#5	4'-4"	
s2(E)	2	#6	14'-6"	
* sp(E)	6	#4	2'-0"	
u(E)	8	#6	11'-11"	
v(E)	89	#8	6'-8"	
v1(E)	8	#5	8'-4"	
v2(E)	18	#5	11'-8"	
Structure Excavation		Cu. Yd.	197	
Concrete Structures		Cu. Yd.	23.3	
Reinforcement Bars, Epoxy Coated		Pound	4,900	
Furnishing Steel Piles, HP 14x89		Foot	400	
Driving Piles		Foot	400	
Test Pile Steel HP14x89		Each	1	
Pile Shoes		Each	6	

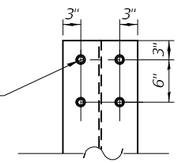
* Length is height of spiral

PILE DATA

Type: HP 14x89 w/ Pile Shoes
Nominal Required Bearing: 525 kips
Factored Resistance Available: 289 kips
Est. Length: 80 ft.
No. Production Piles: 5
No. Test Piles: 1

*4-¾" ∅ x 4" Granular or solid flux filled headed studs automatically end welded (Typ. each flange, each pile)

* Cost included with Furnishing Piles



SEISMIC PILE DETAILS

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 19 of 32.

MODEL: 17 West Abutments
FILE NAME: P:\5XX\154XX\55XX15574 - PTB 203-048 D9 Veenstra Kimm\WO 1124-Structures\CADD\Bridge\16 Abutment 1.dgn

5/8/2023 12:02:02 PM

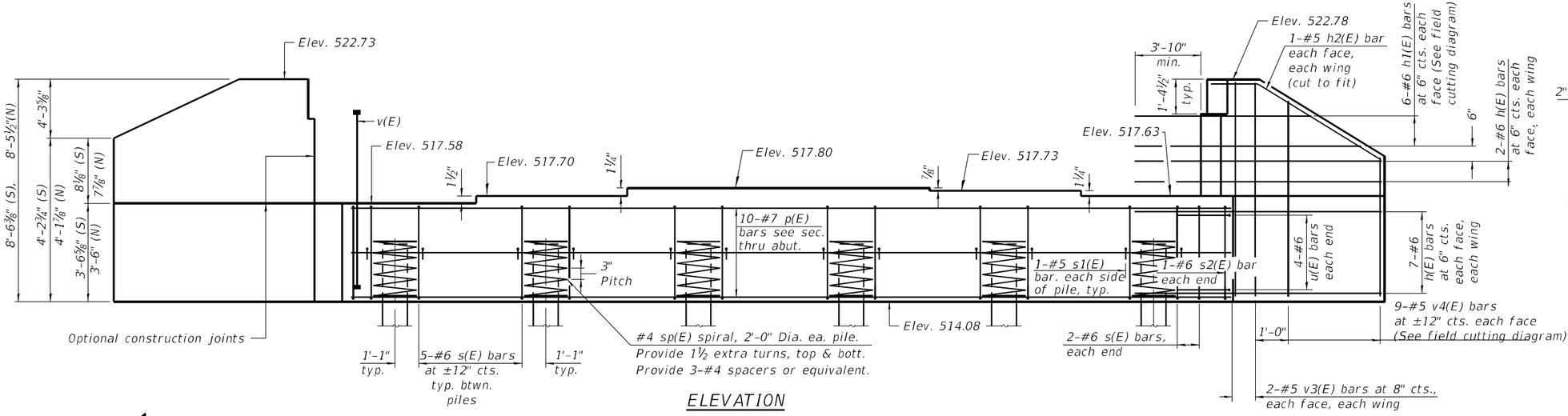
CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

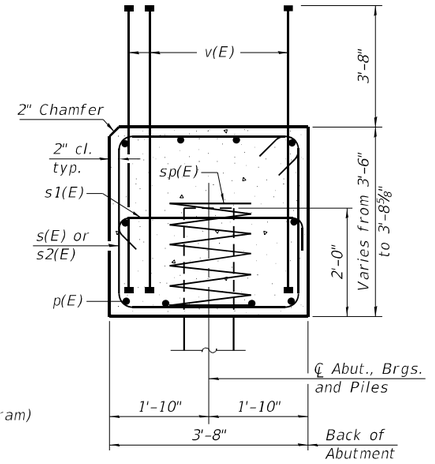
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 100-0105
SHEET 16 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	52
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

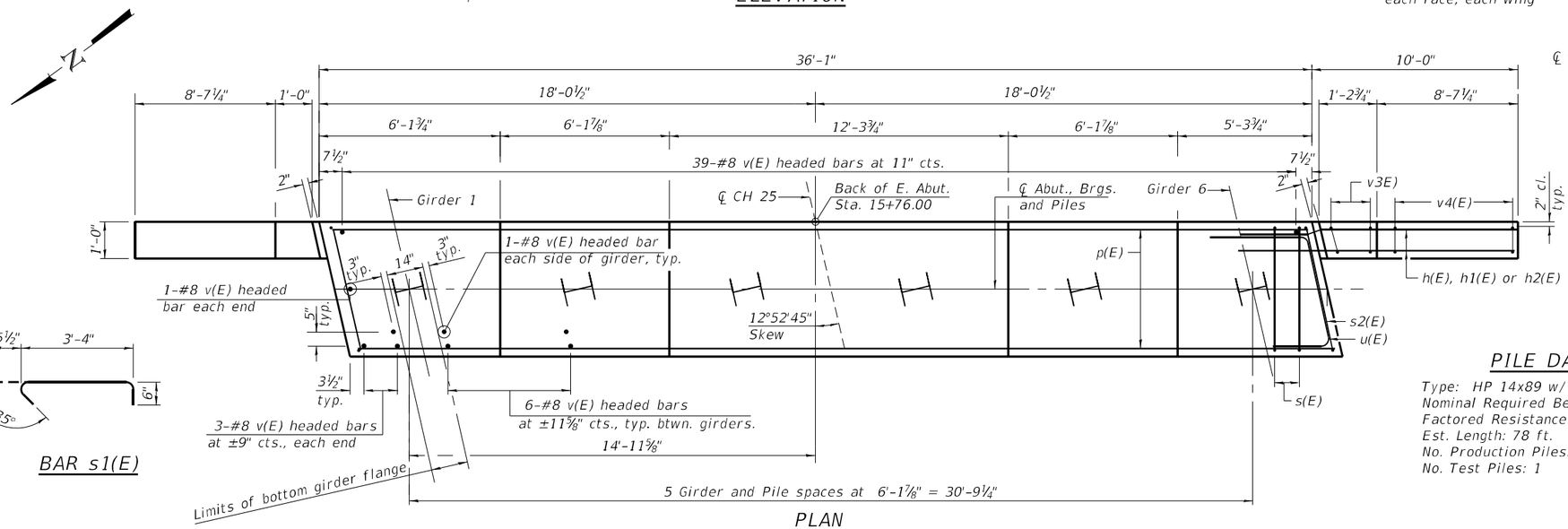


ELEVATION



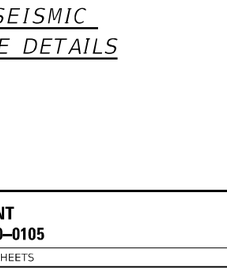
SEC. THRU ABUT.

Dimensions at right angles to abutment.



PLAN

BAR s1(E)



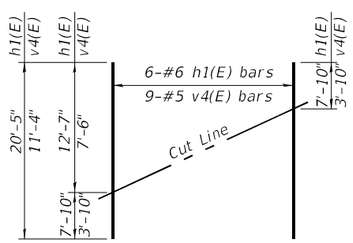
ANCHOR BOLT LAYOUT

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	36	#6	13'-8"	
	h1(E)	12	#6	20'-5"	
	h2(E)	4	#5	10'-5"	
	p(E)	10	#7	35'-9"	
	s(E)	29	#6	14'-4"	
	s1(E)	12	#5	4'-4"	
	s2(E)	2	#6	14'-6"	
*	sp(E)	6	#4	2'-0"	
	u(E)	8	#6	11'-11"	
	v(E)	89	#8	6'-8"	
	v3(E)	8	#5	8'-2"	
	v4(E)	18	#5	11'-4"	
	Structure Excavation	Cu. Yd.		197	
	Concrete Structures	Cu. Yd.		23.0	
	Reinforcement Bars, Epoxy Coated	Pound		4,890	
	Furnishing Steel Piles, HP 14x89	Foot		390	
	Driving Piles	Foot		390	
	Test Pile Steel HP 14x89	Each		1	
	Pile Shoes	Each		6	

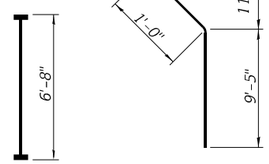
PILE DATA

Type: HP 14x89 w/ Pile Shoes
Nominal Required Bearing: 525 kips
Factored Resistance Available: 289 kips
Est. Length: 78 ft.
No. Production Piles: 5
No. Test Piles: 1



FIELD CUTTING DIAGRAM

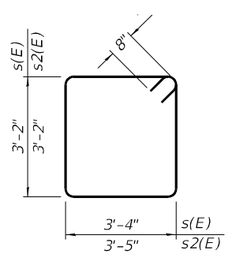
Order h1(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite wing.



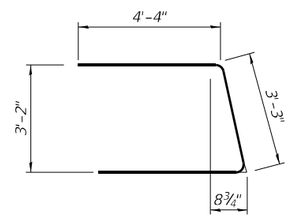
BAR v(E)

(Headed)

BAR h2(E)



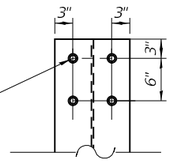
BAR s(E) & s2(E)



BAR u(E)

**4-¾" ∅ x 4" Granular or solid flux filled headed studs automatically end welded (Typ. each flange, each pile)*

** Cost included with Furnishing Piles*



SEISMIC PILE DETAILS

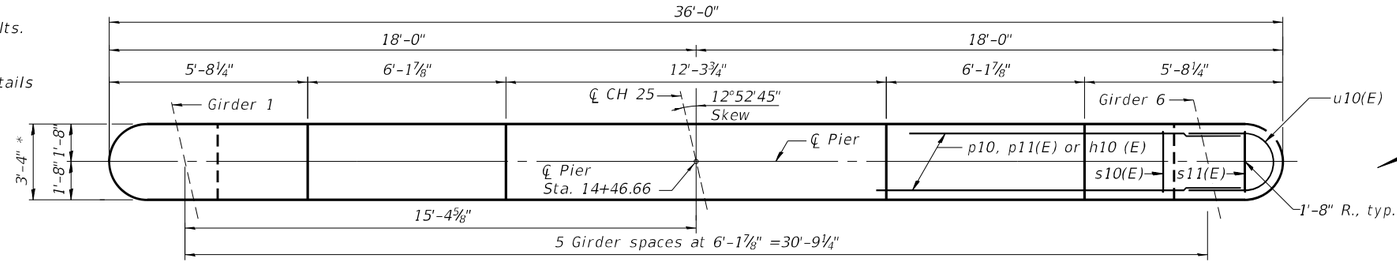
** Length is height of spiral*

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 19 of 32.

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 19 of 32.
See aesthetic drawings for additional pier details and finishes.

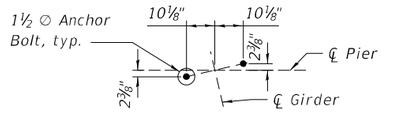
PILE DATA

Type: HP 14x89 w/ Pile Shoes
Nominal Required Bearing: 521 kips
Factored Resistance Available: 286 kips
Est. Length: 65 ft.
No. Production Piles: 15
No. Test Piles: 1

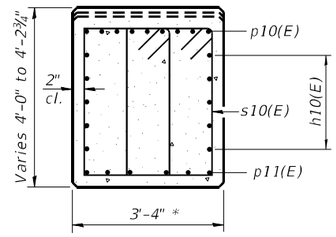


TOP PLAN

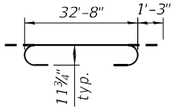
* Aesthetic dimensions and details not shown.



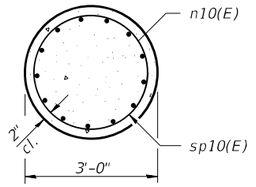
ANCHOR BOLT LAYOUT



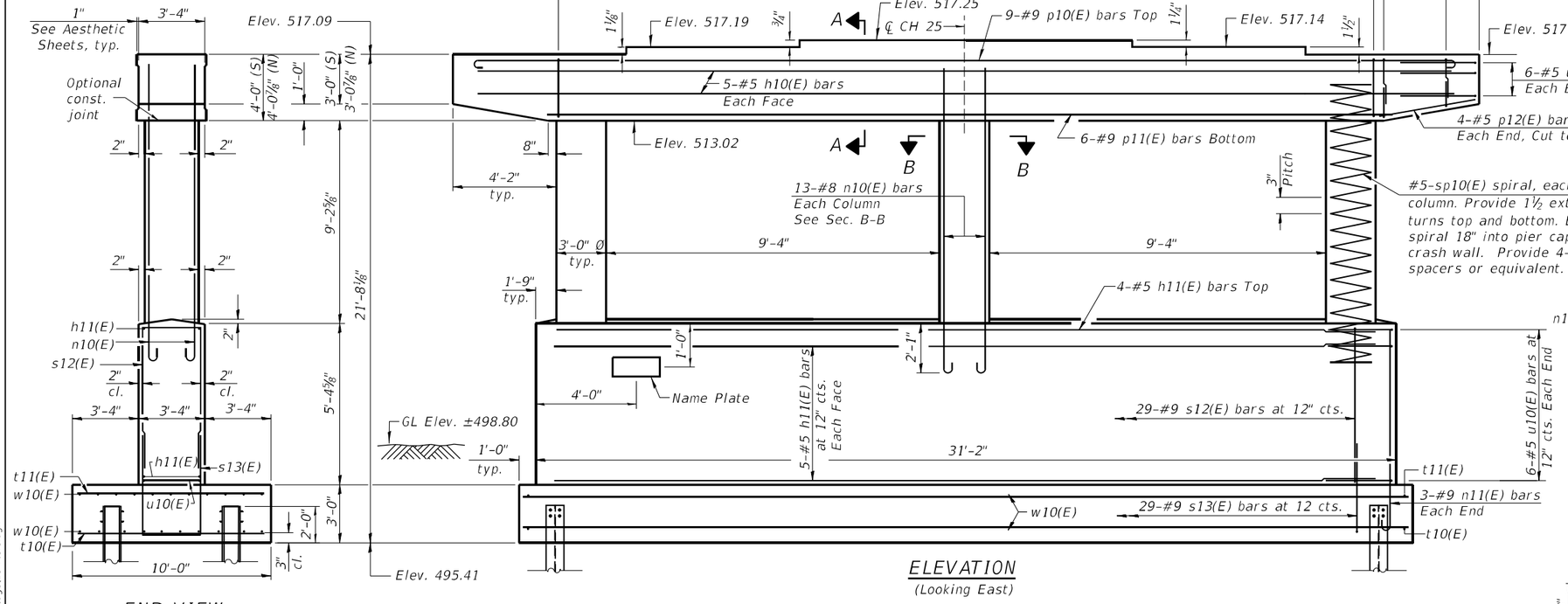
SEC. A-A



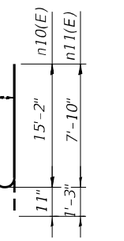
BAR p10(E)



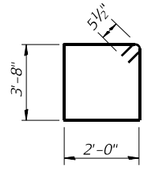
SEC. B-B



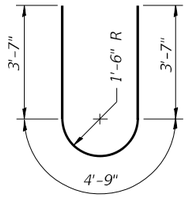
ELEVATION
(Looking East)



BAR n10(E) & n11(E)



BAR s10(E)

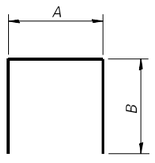


BAR u10(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	10	#5	32'-8"	
h11(E)	14	#5	27'-10"	
p10(E)	9	#9	35'-2"	
p11(E)	6	#9	29'-0"	
p12(E)	8	#5	3'-6"	
s10(E)	114	#5	12'-3"	
s11(E)	40	#5	8'-2"	
s12(E)	29	#9	13'-0"	
s13(E)	29	#9	17'-8"	
** sp10(E)	3	#5	12'-4"	
u10(E)	24	#5	11'-11"	
n10(E)	39	#8	16'-1"	
n11(E)	6	#9	9'-1"	
t10(E)	48	#9	9'-8"	
t11(E)	34	#6	9'-8"	
w10(E)	21	#6	32'-10"	
Structure Excavation		Cu. Yd.	26.0	
Concrete Structures		Cu. Yd.	82.4	
Reinforcement Bars, Epoxy Coated		Pound	13,910	
Furnishing Steel Piles, HP 14x89		Foot	975	
Driving Piles		Foot	975	
Test Pile Steel HP 14x89		Each	1	
Pile Shoes		Each	16	

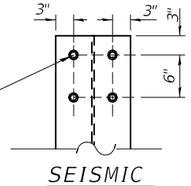
** Length is height of spiral.



BARS s11(E), s12(E) & s13(E)

A & B DIMENSIONS

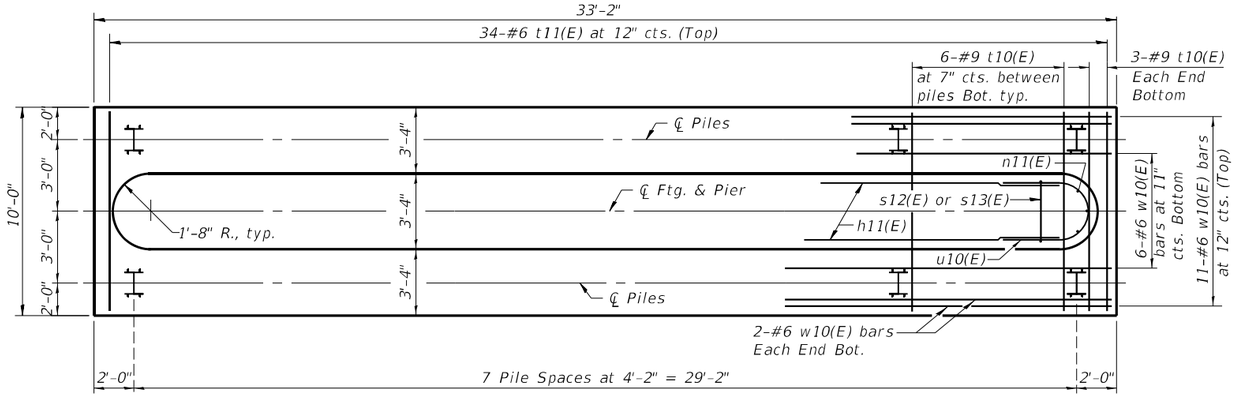
Bar	A	B
s11(E)	2'-0"	3'-1"
s12(E)	3'-0"	5'-0"
s13(E)	3'-0"	7'-4"



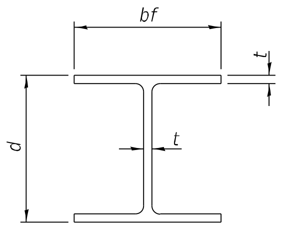
*4-¾" ∅ x 4" Granular or solid flux filled headed studs automatically end welded (Typ. each flange, each pile)

* Cost included with Furnishing Piles

SEISMIC PILE DETAILS

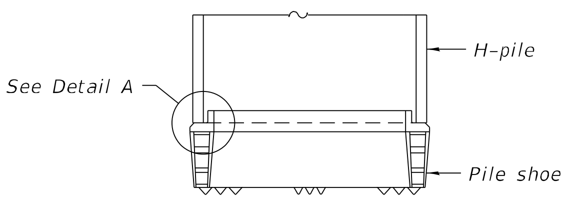


FOOTING PLAN

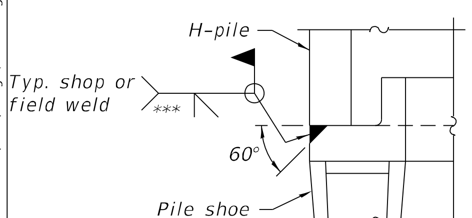


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14¼"	14⅞"	13/16"	30"
x102	14"	14¾"	11/16"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	11/16"	24"
x74	12⅛"	12¼"	⅝"	24"
x63	12"	12⅛"	½"	24"
x53	11¾"	12"	7/16"	24"
HP 10x57	10"	10¼"	9/16"	24"
x42	9¾"	10⅛"	7/16"	24"
HP 8x36	8"	8⅛"	7/16"	18"



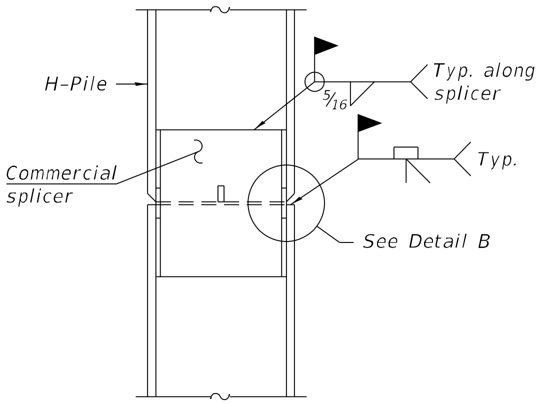
ELEVATION



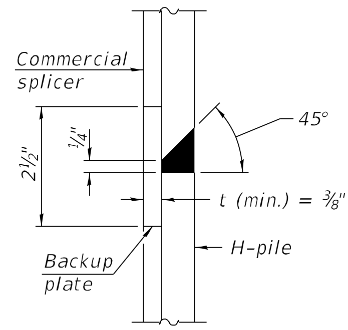
DETAIL A

SHOE ATTACHMENT

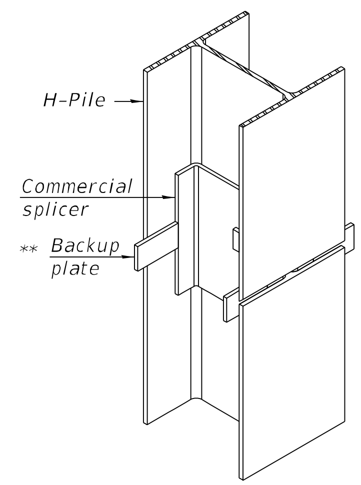
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

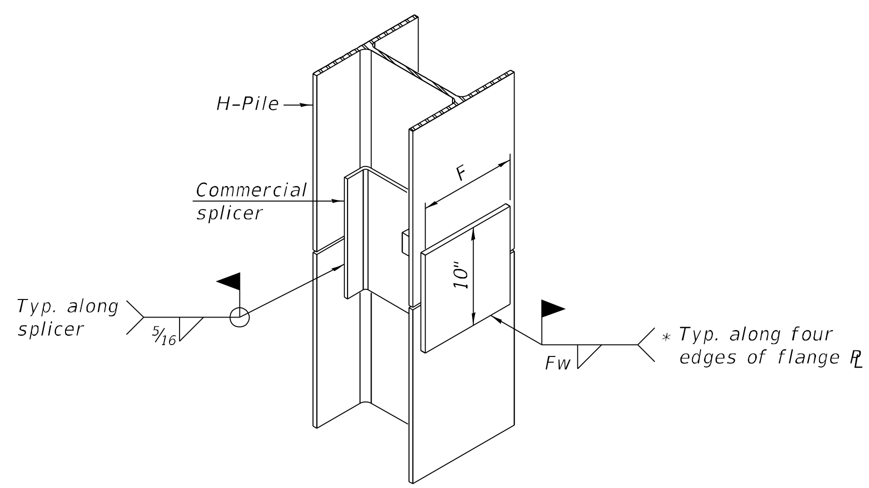


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



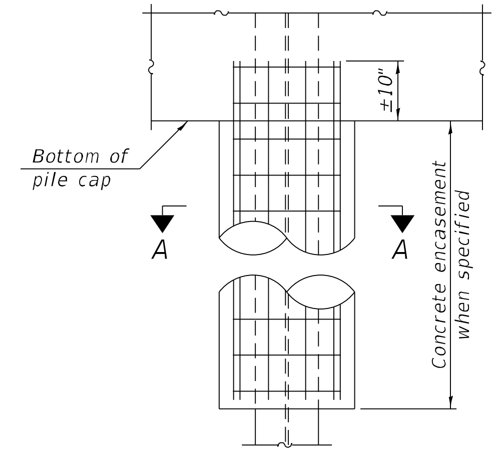
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

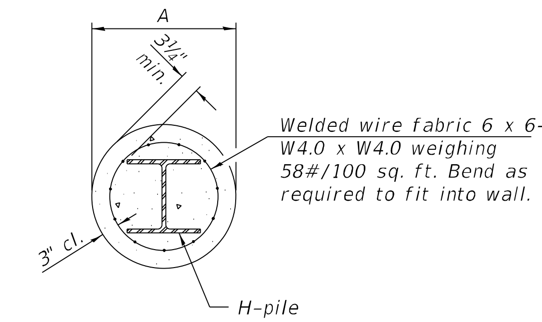
* Interrupt welds ¼" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



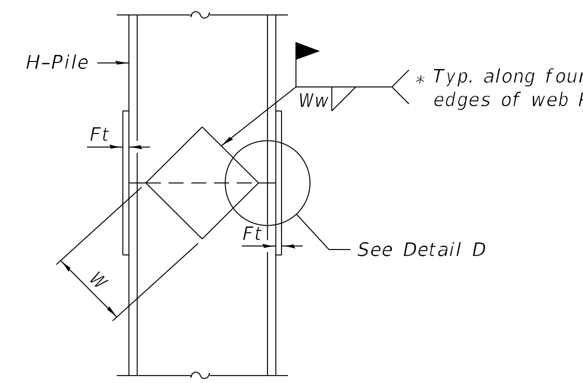
ELEVATION



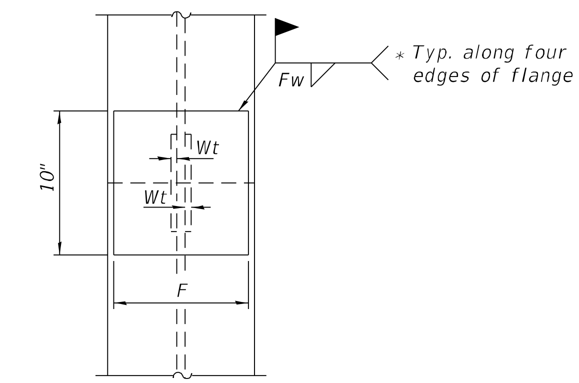
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

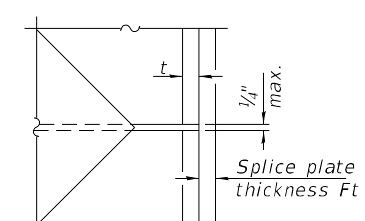
(Forms for encasement may be omitted when soil conditions permit).



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	11/16"	7¾"	⅝"	½"
x73	12½"	⅝"	9/16"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	11/16"	6½"	⅝"	½"
x74	10"	⅞"	11/16"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅝"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	9/16"	5¼"	½"	⅜"
x42	8"	⅝"	9/16"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	7/16"	4¼"	½"	⅜"

WELDED PLATE FIELD SPLICE

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log

FAP 1900 (CH 25) Grassy Rd Over FAI-57 — Sheet 1 of 2

Route: Grassy Rd — Structure Number: 100-0044 — Date: 10/16/2018

Section (X1-7-1)B-2 — Bored By: L Estel

County: Williamson — Location: 1.4 miles West of IL 37 (W. Abut.) — Checked By: A Hayes

Boring No 1-S
Station 13+24 (Grassy Rd)
Offset 7' LT of CL
Ground Surface 518.4 Ft

Surf Wat Elev:
Ground Water Elevation
when Drilling 473.9
At Completion
At: Hrs:

DEPTH	BLOWS	Qu tsf	W%	Material
				Cored Pavement, HMA over GRAVEL
516.9				
	2			
	4	1.2B	21	Stiff Brown, Moist SILTY CLAY A-6
	4			
5.0	1			
	3	1.8B	20	
	4			
	WH			
	2	1.2B	23	
	4			
508.9				
10.0	1			
	2	0.9B	23	M. Stiff Brown and Grey, Moist CLAY A7-6
	2			
506.4				
	1			
	1	1.4B	21	Stiff Brown and Grey, Moist CLAY A7-6
	3			
503.9				
15.0	1			
	3	2.5B	23	V. Stiff Brown and Grey, Moist SILTY CLAY
	4			
501.4				
	1			
	3	1.2B	22	Stiff Brown and Grey, Moist SILTY CLAY
	4			
498.9				
20.0	3			
	5	2.7B	23	V. Stiff Brown, Moist SILTY CLAY
	7			
496.4				
	1			
	3	1.6S	18	Stiff Brown, Moist CLAY with a trace of SAND
	7			
493.9				
25.0	1			

DEPTH	BLOWS	Qu tsf	W%	Material
	6	3.3B	17	V. Stiff Brown and Mottled Grey, Moist SILTY CLAY with a trace of SAND and GRAVEL
	7			
	1			
	5	3.3B	18	
	6			
30.0	1			
	6	3.3B	17	
	7			
	1			
	5	2.7B	18	
	7			
35.0	1			
	5	3.7B	17	
	7			
	1			
	6	3.9B	17	
	7			
40.0	1			
	7	2.3B	16	
	19			
45.0	1			
	4	1.7B	20	Stiff Brown and Mottled Grey, Damp SILTY LOAM with a trace of GRAVEL
	5			
50.0	1			

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Route: Grassy Rd
Section: (X1-7-1)B-2
County: Williamson

Sheet 2 of 2
Date: 10/16/2018

Boring No: 1-S
Station: 13+24 (Grassy Rd)
Offset: 7' LT of CL
Ground Surface: 518.4 Ft

DEPTH	BLOWS	Qu tsf	W%	Material
	6		23	M. Dense Brown, Wet LOAM Sand 45% Silt 35% Clay 9%
	6			
(Washed) 463.9				
55.0	1			
	5	1.4B	17	Stiff Grey, Damp SILT with a trace of GRAVEL and a SAND seam
	5			
458.9				
60.0	4			
	9	0.4B	12	Soft Grey, Damp SILTY LOAM with a trace of GRAVEL
	9			
453.9				
65.0	4			
	13	1.9S	15	Stiff Grey, Damp SILTY LOAM with a trace of GRAVEL
	16			
448.9				
70.0	6			
	6	2.0B	17	Stiff Grey, Moist CLAY LOAM with a trace of GRAVEL and a SILTY LOAM layer
	7			
443.9				
75.0	3			

DEPTH	BLOWS	Qu tsf	W%	Material
	8	1.0S	21	Stiff Grey, Moist SILTY LOAM with a trace of SAND
	9			
80.0	1			
	5	1.9S	22	
	7			
433.9				
85.0	100/6"			V. Stiff Grey, Moist SILTY LOAM over Hard Brown, Dry Weathered SANDSTONE
90.0				
				Bottom of hole @ 85 feet
				Free water observed @ 44.5 Feet
				Elevation referenced to BM #4, cut square on median pier of SN 100-0044; Elev. 501.70
95.0				Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)
				To convert "N" values to "N60" multiply by 1.5
100.0				

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log

FAP 1900 (CH 25) Grassy Rd Over FAI-57 — Sheet 1 of 2

Route: CH 25 (Grassy R — Structure Number: 100-0044 — Date: 10/17/2018

Section (X1-7-1)B-2 — Bored By: L Estel

County: Williamson — Location: 1.4 miles West of IL 37 (E. Abut.) — Checked By: A Hayes

Boring No 2-S
Station 15+75 (Grassy Rd)
Offset 7' RT of CL
Ground Surface 521.0 Ft

Surf Wat Elev:
Ground Water Elevation
when Drilling 475.5
At Completion
At: Hrs:

DEPTH	BLOWS	Qu tsf	W%	Material
				Cored Pavement, HMA over GRAVEL
519.5				
	1			
	3	1.5B	22	Stiff Brown, Moist CLAY to SILTY CLAY A7-6
	3			
5.0	1			
	3	1.2B	19	
	3			
	1			
	4	1.5B	17	
	4			
509.0				
10.0	1			
	3	1.6B	22	V. Stiff Brown, Moist CLAY to SILTY CLAY A7-6
	4			
506.5				
	2			
	6	2.1B	19	
	6			
504.0				
15.0	2			
	6	1.6B	19	Stiff Brown and Mottled Grey, Moist SILTY CLAY
	6			
499.0				
	1			
	6	2.5B	18	V. Stiff Brown and Mottled Grey with Specks of Black, Moist SILTY CLAY
	6			
496.5				
20.0	1			
	5	2.5B	18	
	5			
	1			
	5	1.9B	22	Stiff Brown and Mottled Grey with Specks of Black, Moist SILTY CLAY
	5			
491.5				
25.0	2			

DEPTH	BLOWS	Qu tsf	W%	Material
	7	4.7B	18	Hard Brown and Mottled Grey with Specks of Black, Moist SILTY CLAY with a trace of GRAVEL
	7			
	2			
	7	4.1E		(No Recovery)
	8			
30.0	2			
	7	4.7B	17	
	9			
	2			
	7	3.9B	17	
	9			
486.5				
35.0	2			
	4	2.3B	18	V. Stiff Brown and Mottled Grey, Moist CLAY with a trace of GRAVEL
	6			
	1			
	5	2.5B	17	
	5			
40.0	2			
	5	3.3B	17	
	7			
45.0	1			
	5	2.5B	17	
	7			
50.0	1			

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

MODEL: 20 Piles
FILE NAME: P:\5XX\54XX-55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\20 Borings1.dgn

2/18/2023 8:01:08 AM

CDI — CIVIL DESIGN, INC. WBE / DBE — EFFINGHAM, IL LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 100-0105
SHEET 20 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	56
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

Sheet 2 of 2
Date: 10/17/2018

Route: CH 25 (Grassy RD)
Section: (X1-7-1)B-2
County: Williamson

Boring No: 2-S
Station: 15+75 (Grassy Rd)
Offset: 7' RT of CL
Ground Surface: 521.0 Ft

DEPTH	BLOWS	Qu tsf	W%	
	7	2.5B	18	Stiff Grey, Moist SILTY CLAY LOAM with a trace of SAND and GRAVEL
	8			
441.5				
55.0	1			
	5	2.7B	20	V. Stiff Brown and Mottled Grey, Moist CLAY with a trace of GRAVEL
	7			
456.5				
65.0	2			
	4	1.2B	20	Stiff Grey, Moist SILTY CLAY with a trace of SAND and GRAVEL
	4			
70.0	1			
	5	1.0B	20	
	5			
446.5				
75.0	3			

DEPTH	BLOWS	Qu tsf	W%	
80.0	3			
	9	3.1S	11	V. Stiff Grey, Moist SILTY CLAY LOAM with a trace of SAND and GRAVEL
	12			
438.5				
	100/1.5"			Hard Brown, Dry SANDSTONE
85.0				
90.0				
95.0				Bottom of hole @ 82.5 feet Free water observed @ 45.5 feet Elevation referenced to BM #4, cut square on median pier of SN 100-0044; Elev. 501.70 Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.) To convert "N" values to "N60" multiply by 1.5
100.0				

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 2

FAP 1900 (CH 25) Grassy Rd Over FAI-57
Route: Grassy Rd Structure Number: 100-0044 Date: 10/18/2018
Section (X1-7-1)B-2 Bored By: L Estel
County: Williamson Location: 1.4 miles West of IL 37 (Median) Checked By: A Hayes

Boring No 3-S
Station 236+30 (I-57)
Offset 33' LT of NBCL
Ground Surface 498.7 Ft

Surf Wat Elev:
Ground Water Elevation
when Drilling 476.7
At Completion
At: Hrs:

DEPTH	BLOWS	Qu tsf	W%	
				Brown SILTY CLAY (observed from auger cuttings)
496.7				
	1			
	5	1.0S	19	M. Stiff Brown and Mottled Grey with Specks of Black, Moist SILTY CLAY LOAM
	5			
5.0	1			
	3	0.6B	28	
	2			
491.7				
	1			
	6	1.6B	23	M. Stiff Brown and Mottled Grey with Specks of Black, Moist CLAY LOAM
	6			
10.0	2			
	6	2.1S	13	V. Stiff Brown, Moist SILTY CLAY LOAM
	6			
486.2	2			
	4	2.5B	17	V. Stiff Brown and Mottled Grey with Specks of Black, Moist CLAY to SILTY CLAY with a trace of GRAVEL
	5			
484.2				
15.0	1			
	3	1.6B	18	Stiff Brown and Mottled Grey with Specks of Black, Moist CLAY to SILTY CLAY with a trace of GRAVEL
	5			
481.7				
	1			
	6	3.1B	18	V. Stiff Brown and Mottled Grey with Specks of Black, Moist CLAY to SILTY CLAY with a trace of GRAVEL
	7			
20.0	2			
	6	2.9B	17	
	7			
476.7				
	2			
	8	5.0	19	Hard Brown and Mottled Grey with Specks of Black, Moist CLAY to SILTY CLAY with a trace of GRAVEL
	10			
473.7	25.0	3		

DEPTH	BLOWS	Qu tsf	W%	
	8	3.7B	18	V. Stiff Brown and Mottled Grey with Specks of Black, Moist CLAY to SILTY CLAY with a trace of GRAVEL
	10			
	2			
	5	2.5B	19	
	7			
30.0	1			
	5	3.3B	20	
	7			
486.7				
	2			
	5	4.3S	20	Hard Brown and Mottled Grey with Specks of Black, Moist CLAY A7-6 with a trace of GRAVEL
	8			
464.2				
35.0	1			
	4	1.5B	20	Stiff Brown and Mottled Grey, Moist SILTY CLAY with a trace of GRAVEL
	4			
461.7				
	1			
	5	3.3B	21	Stiff Brown and Mottled Grey, Moist CLAY A7-6 with a trace of SAND and GRAVEL
	7			
459.2				
40.0	1			
	2	0.9B	22	M. Stiff Grey, Moist SILTY CLAY
	2			
454.2				
45.0	1			
	3	1.0	21	M. Stiff Grey, Moist SILTY CLAY with some Rotton Wood
	3			
449.2				
50.0	WH			

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2
Date: 10/18/2018

Route: Grassy Rd
Section: (X1-7-1)B-2
County: Williamson

Boring No: 3-S
Station: 236+30 (I-57)
Offset: 33' LT of NBCL
Ground Surface: 498.7 Ft

DEPTH	BLOWS	Qu tsf	W%	
	2	0.9B	22	M. Stiff Grey, Moist CLAY A7-6
	2			
444.2				
55.0	1			
	3	2.3B	18	V. Stiff Grey, Moist CLAY A7-6
	5			
439.2				
60.0	3			
	11	5.2B	9	Hard Grey, Moist CLAY LOAM with SAND and GRAVEL
	13			
433.7	65.0			
	100/0"			Hard Grey and Brown, Damp SANDSTONE Auger refusal @ Elev. 433.7 (Borehoe continued with rock coring) Elev. 433.7 to 428.7; Recovery 69%, RQD 8% Average Unconfined Compressive Strength 5,295 psi
428.7	70.0			Hard Grey, Dry SANDSTONE Elev. 428.7 to 423.7; Recovery 100%, RQD 72% Average Unconfined Compressive Strength 6,585 psi
423.7	75.0			

DEPTH	BLOWS	Qu tsf	W%	
80.0				
85.0				
90.0				
95.0				Bottom of hole @ 75.0 feet Free water observed @ 22 feet Elevation referenced to BM #4, cut square on median pier of SN 100-0044; Elev. 501.70 Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.) To convert "N" values to "N60" multiply by 1.5
100.0				

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

MODEL: XX Borings2
FILE NAME: P:\5XX\54XX-55XX\5574 • PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\21 Borings2.dgn

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 100-0105
SHEET 21 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	57
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

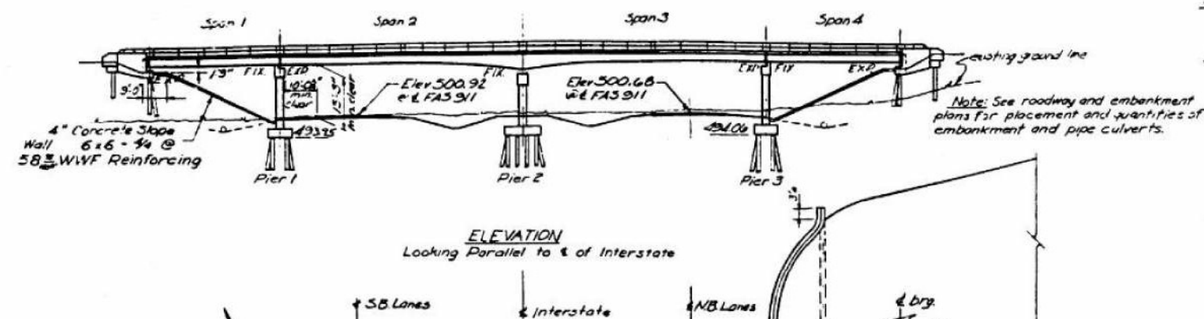
2/18/2023 8:01:43 AM

FAI 57

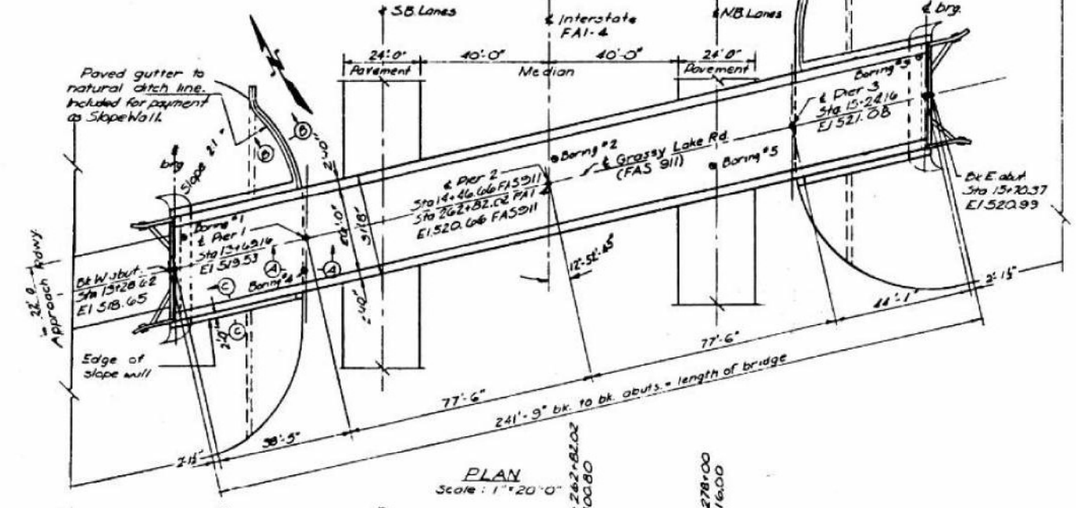
B.M.-V19 Lag screw in 10" Maple stump
162' Rt. Sta 262+10 (℄ Median) Elev 494.36

SHEET NO. 1
9 SHEETS

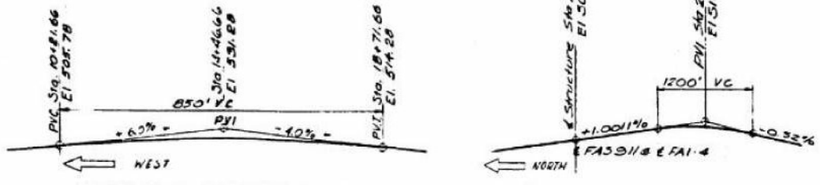
COUNTY NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	XI-7HB	WILLIAMSON	25	6
FED. ROAD DIST. NO. 1	ILLINOIS	PROJECT		



ELEVATION
Looking Parallel to ℄ of Interstate

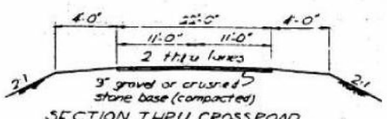


PLAN
Scale: 1"=20'-0"



PROFILE OF CROSS ROAD
FAS 911

PROFILE OF INTERSTATE FAI-4
NBL & SBL



SECTION THRU CROSS ROAD
FAS 911 - CLASS "E" ROAD

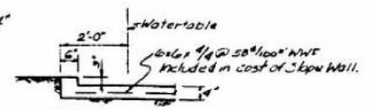
DESIGN STRESSES

f_c = 1400 psi

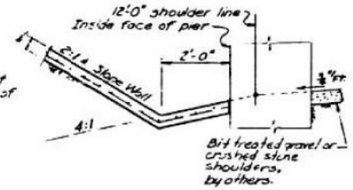
f_s = 20,000 psi (Reinf)
f_s = 18,000 psi (Struct)
n = 10

LOADING
HS-312-44

SECTION B-B
GUTTER DETAIL

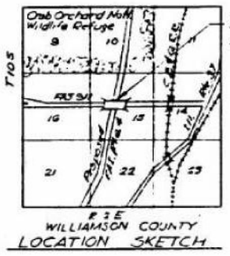


SECTION C-C



SECTION A-A

SLOPE WALL DETAILS



LOCATION SKETCH

Note: See sheet 9 of 9 for Boring Data

GENERAL NOTES

1. SPECIFICATIONS: The State of Illinois "Standard Specifications for Road and Bridge Construction", adopted January 2, 1952, and Supplemental Specifications, effective July 1, 1955, shall apply.
2. CONCRETE: Class X concrete shall be used throughout. The concrete floor slab shall be finished in accordance with Article 51.18 (a) of the Standard Specifications.
3. METAL HANDRAIL: All rail posts, anchor devices, and lead plates shall be included in cost of Lin. Ft. of Metal Handrail. The length paid for shall be the overall length along the top longitudinal railing member through all posts and caps and including the rail on top of the wing walls.
4. STRUCTURAL STEEL: All rockers, bearing plates, lead plates, pintles and anchor bolts in the bridge bearings, and all steel in the expansion joints shall be furnished and set in accordance with Articles 51.24 and 51.12 respectively, and are included for payment as structural steel.
5. PAINT: Except as otherwise provided all structural steel and metal handrail shall receive one shop coat of red lead paint and two field coats of aluminum paint in accordance with Articles 57.1 through 57.5. All paint to be furnished and applied by the Contractor.
6. CLASS A EXCAVATION FOR STRUCTURES: This quantity is based on excavation below proposed ground profile, as if rough grading for the Interstate Roadway had been completed prior to start of bridge construction.
7. PILES: Bearing capacity shall be as shown on the plans. See Special Provisions for optional pile types and basis of payment.
8. TEST PILES: The Contractor shall drive one test pile at each pier and each abutment in permanent locations in accordance with Article 42.15 before ordering the remainder of the piles.

NAME PLATE DATA
See Standard 2113

STATION 262+82.02
BUILT 1953 BY
STATE OF ILLINOIS
FAI-4 SECTION XI-7HB
FAI PROJECT I-04-1(14)
LOADING HS-312

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUBSTR.	TOTAL
Class X Concrete	Cu Yds	1109	2462	4571
Reinforcement Bars	lbs	113,826	30,542	144,368
Structural Steel	lbs	14461		14,461
Metal Handrail	Lin Ft	512		512
Name Plates	Each	1		1
Slope Wall	Sq Yds		349	349
Class A Excavation for Structs	Cu Yds		304	304
Concrete Piles	Lin Ft		320	320
Test Piles (Concrete)	Each		2	2
Creosoted Piles, 20'-38'	Lin Ft		1,638	1,638
Test Piles (Creosoted)	Ea.		3	3

GENERAL PLAN & ELEVATION - STRUCTURE XI-7HB

REVISIONS			STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	
NO.	DATE	SHEET(S)		
			F.A.I. 4 SECTION XI-7HB PROJECT I-04-1(14)	
			STA. 262+82.02 WILLIAMSON COUNTY	
			HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS MACOMB, ILLINOIS	

C&D NO. 317-8

F.A.I. ROUTE 4 SECTION XI-7HB WILLIAMSON CO GENERAL PLAN & ELEVATION

MODEL: 20 Piles
FILE NAME: P:\5XX\54XX\54XX55\XX55574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\22 ExistingPlans.dgn
2/18/2023 8:02:18 AM

CDI — CIVIL DESIGN, INC. WBE / DBE — EFFINGHAM, IL LICENSE #184.003222

USER NAME =		DESIGNED - RBT	REVISED -
		CHECKED - JS	REVISED -
PLOT SCALE =		DRAWN - RBT	REVISED -
PLOT DATE =		CHECKED - KAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

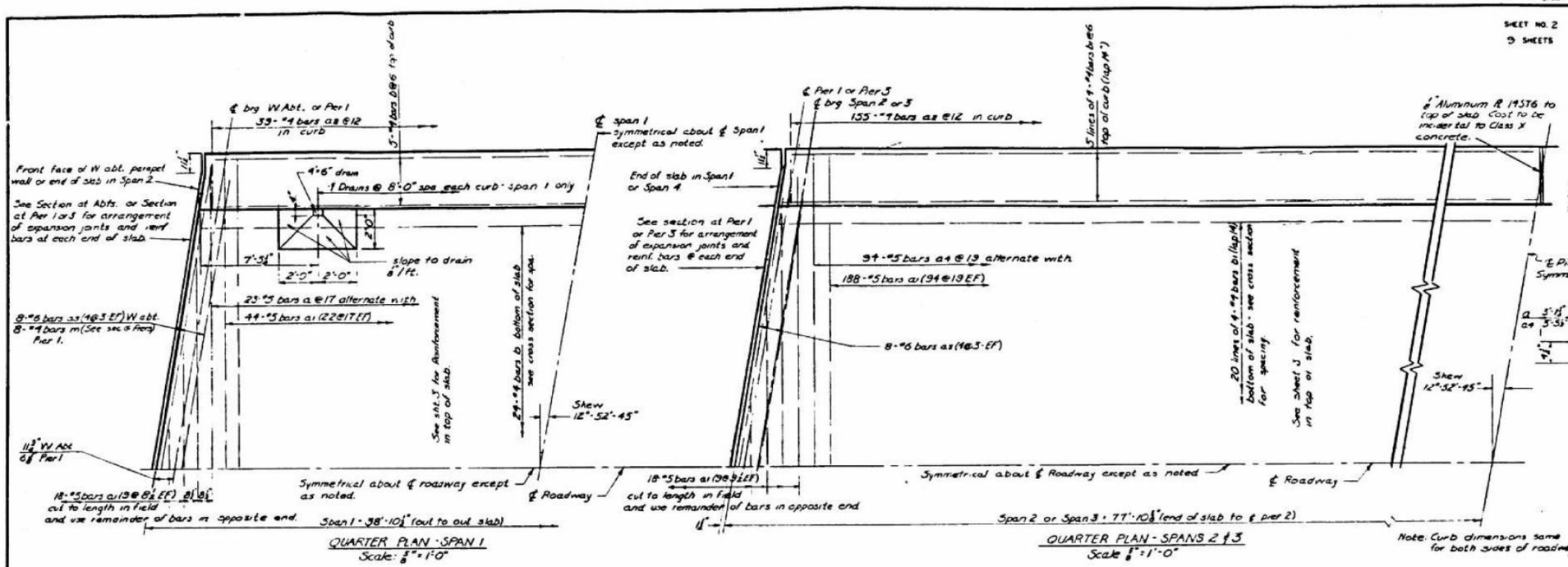
EXISTING PLANS
STRUCTURE NO. 100-0105
SHEET 22 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	58
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

FAI 57

SHEET NO. 2
9 SHEETS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	XI-7HB	WILLIAMSON	98	7
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



QUARTER PLAN - SPAN 1
Scale: ⅜"=1'-0"

QUARTER PLAN - SPANS 2 & 3
Scale ⅜"=1'-0"

QUARTER PLAN - SPAN 4
Scale: ⅜"=1'-0"

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a	570	#5	32'-5	
a1	338	#5	31'-0"	
a2	480	#4	4'-8"	
a3	32	#6	23'-8"	
a4	94	#5	32'-5"	
b	34	#4	38'-4"	
b2	120	#4	39'-6"	
b3	68	#4	22'-7"	
m	16	#4	29'-7"	
m1	92	#4	5'-0"	
Class X Concrete - cu yds				440.9
Reinforcement Bars - lbs				24,110

Structures by: CLARK and DAILY, Consulting Engineers, Urbana, Illinois

* These dimensions are given for 50° F Temperature. If temperature is above or below 50° or if Abutments have moved, make appropriate corrections to give the required dimensions @ 50°F.

SUPERSTRUCTURE - STRUCTURE XI-7HB

REVISIONS		STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	DESIGN BY / DATE R.S.M 12-24-07
NO.	DATE / INITIALS		CHECKED BY / DATE RMA 1-2-08
		F.A.I 4 SECTION XI-7HB PROJECT I-04-1(14)	PROJECT NO. 1160
		STA. 262+82.02 WILLIAMSON COUNTY	
		HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	SHEET NO. 2 OF 9
		C&D NO. 347-B	

F.A.I ROUTE 4 SECTION XI-7HB WILLIAMSON CO. SUPERSTRUCTURE

MODEL: 20 Piles
FILE NAME: P:\5XXX\54XX\55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\23 ExistingPlans.dgn
2/18/2023 8:03:06 AM

CDI — CIVIL DESIGN, INC. WBE / DBE — EFFINGHAM, IL LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -
	CHECKED - JS	REVISED -
PLOT SCALE =	DRAWN - RBT	REVISED -
PLOT DATE =	CHECKED - KAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 100-0105
SHEET 23 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	59
		CONTRACT NO. 78945		
		ILLINOIS FED. AID PROJECT		

FAI 57

SHEET NO 3 OF 9 SHEETS

ROUTE NO.	SECTION	COUNTY	TOT. NO. SHEETS	SHEET NO.
4	XI-7HB	WILLIAMSON	26	8
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

GIRDER ORDINATES - SPANS 2&3
All beams

DEAD LOAD DEFLECTION DIAGRAM

GIRDER DETAILS

SPAN 1 | SPAN 4 | SPANS 2&3

HALF ELEVATION. - SPANS 2&3.

ELEVATION. - SPAN 1

ELEVATION. - SPAN 4.

HALF SECTION - SPAN 1

HALF SECTION - SPAN 4

HALF SECTION @ PIER 2

HALF SECTION NEAR ℄ SPAN
SPANS 2&3

QUARTER PLAN REINFORCEMENT - TOP OF SLAB
SPANS 2&3

DIAPHRAGM LOCATIONS

DIAPHRAGM DETAILS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	32	#4	36'-4"	
b2	64	#4	22'-7"	
G	30	#11	60'-0"	
G1	20	#11	51'-0"	
G2	30	#11	43'-0"	
G3	30	#11	36'-0"	
G4	32	#11	43'-2"	
G22	30	#11	27'-10"	
G23	30	#11	24'-0"	
G31	10	#11	37'-0"	
G32	10	#11	48'-0"	
G33	10	#11	45'-0"	
G34	8	#11	31'-0"	
G35	10	#11	22'-0"	
G36	8	#11	16'-3"	
G37	20	#7	41'-8"	
G38	40	#4	28'-9"	
G39	32	#4	33'-0"	
G40	16	#4	36'-9"	
G41	10	#12	22'-0"	
G42	13	#10	34'-0"	
G43	13	#10	40'-10"	
G44	13	#10	28'-0"	
G45	13	#11	40'-0"	
G46	13	#11	46'-11"	
m2	50	#5	23'-0"	
m3	50	#5	32'-2"	
m4	10	#5	38'-0"	
m5	184	#4	7'-8"	
s	310	#4	8'-8"	
s1	360	#4	5'-11"	
s2	210	#4	8'-5"	
s3	120	#4	6'-10"	
s4	20	#4	11'-4"	
s5	330	#4	7'-8"	
Reinforcement Bars		Lbs		25716

GIRDER DETAILS - STRUCTURE XI-7HB

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

F.A.I. 4 SECTION XI-7HB PROJECT 3-04-1(4)
STA. 262 + 82.02 WILLIAMSON COUNTY

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

DESIGN BY J.C. DATE 12-20-57
CHECKED BY W.B.S. DATE 1-3-58
BOOK NUMBER
PROJECT NO. 1180
SHEET NO. 3 OF 9

C&D NO. 317-B

Structures by: CLARK and DAILY, Consulting Engineers, Urbana, Illinois

F.A.I ROUTE 4 SECTION XI-7HB WILLIAMSON CO GIRDER DETAILS

MODEL: 20 Piles
FILE NAME: P:\5XXX\54XX-55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CAD\Bridge\24 ExistingPlans.dgn
2/18/2023 8:03:54 AM

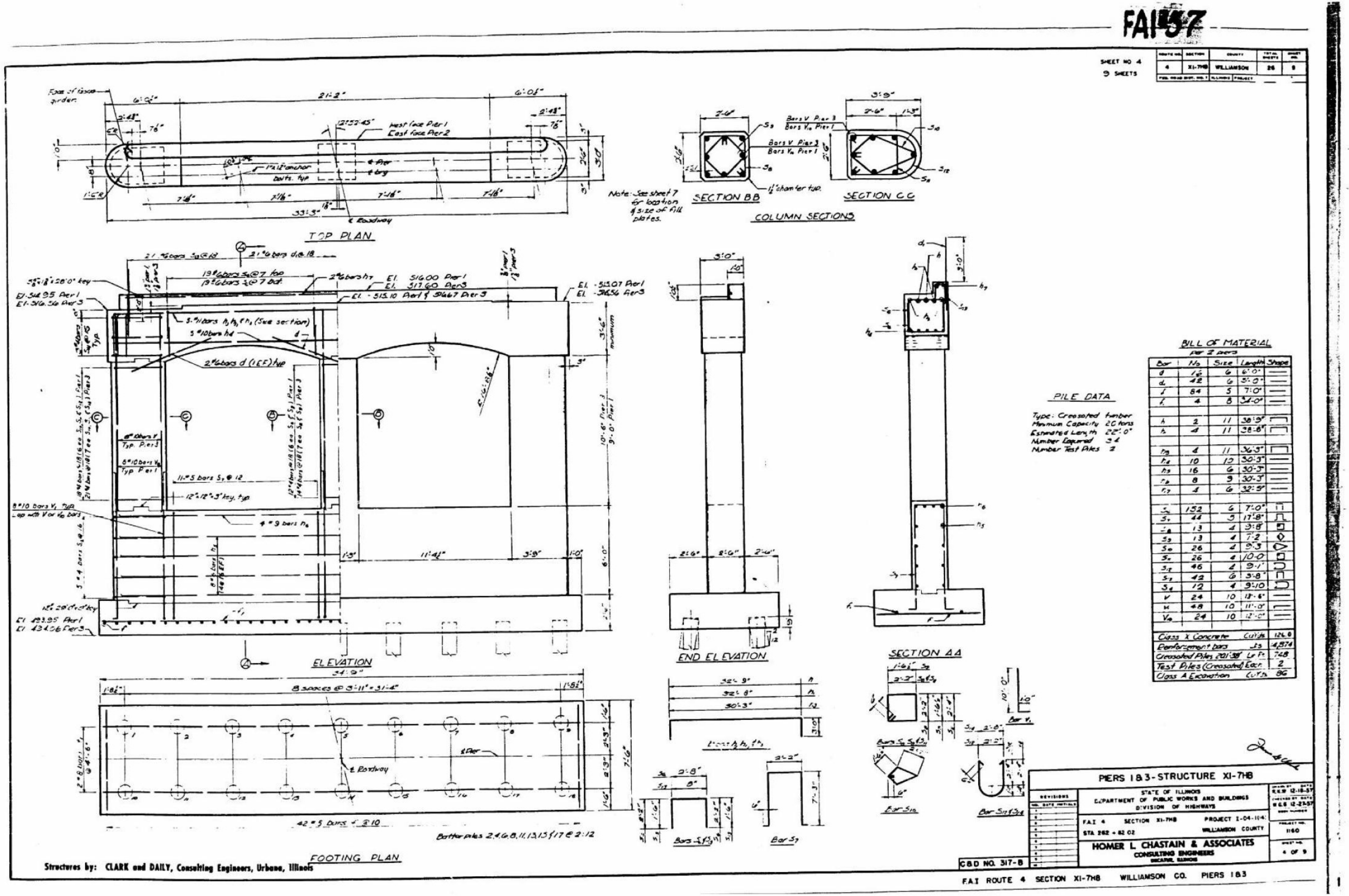
CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 100-0105
SHEET 24 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	60
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIAL
per 2 piers

Bar	No.	Size	Length	Shape
d	16	6	6'-0"	
d1	42	6	5'-0"	
f	84	5	7'-0"	
f1	4	8	34'-0"	
h	2	11	38'-9"	
h1	4	11	38'-8"	
h3	4	11	36'-3"	
h4	10	10	30'-3"	
h5	16	6	30'-3"	
h6	8	9	30'-3"	
h7	4	6	32'-5"	
S	152	6	7'-0"	
S1	44	5	17'-8"	
S8	13	4	3'-8"	
S9	13	4	7'-2	
S10	26	4	9'-3	
S11	26	4	10'-0	
S12	46	4	9'-1'	
S7	42	6	3'-8"	
S4	12	4	9'-10	
V	24	10	13'-6"	
V1	48	10	11'-0"	
V10	24	10	12'-0"	
Class X Concrete			Cu.Yds.	126.0
Reinforcement bars			Lbs	4,874
Creosoted Piles 20@1'-38'			Lin. Ft.	748
Test Piles (Creosoted)			Each	2
Class A Excavation			Cu.Yds.	86

PIERS 1 & 3 - STRUCTURE XI-7HB

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

F.A.I. 4 SECTION XI-7HB PROJECT I-04-1(4)
STA 262 + 82 02 WILLIAMSON COUNTY

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

R.K.W. 12-18-57
W.G.S. 12-23-57
PROJECT NO. 1160
SHEET NO. 4 OF 9

C&D NO. 317-B

F.A.I. ROUTE 4 SECTION XI-7HB WILLIAMSON CO. PIERS 1 & 3

MODEL: 20 Piles
FILE NAME: P:\5XXX\54XX-55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CAD\Bridge\25 ExistingPlans.dgn
2/18/2023 8:04:43 AM

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -
	CHECKED - JS	REVISED -
PLOT SCALE =	DRAWN - RBT	REVISED -
PLOT DATE =	CHECKED - KAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

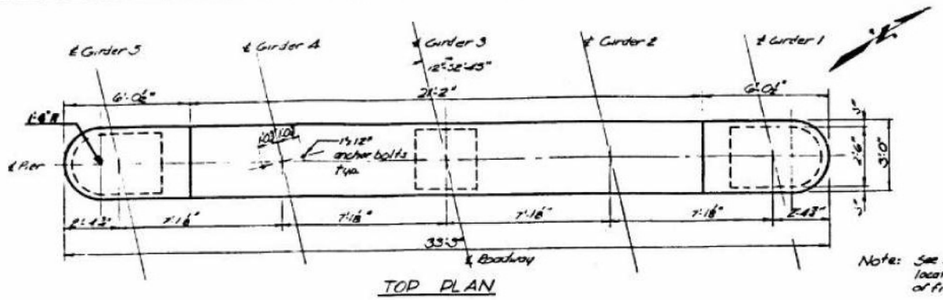
EXISTING PLANS
STRUCTURE NO. 100-0105
SHEET 25 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	61
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

FAI 57

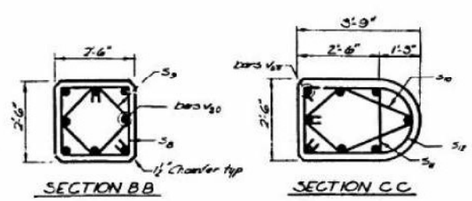
SHEET NO. 5
9 SHEETS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	XI-7HB	WILLIAMSON	28	10
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

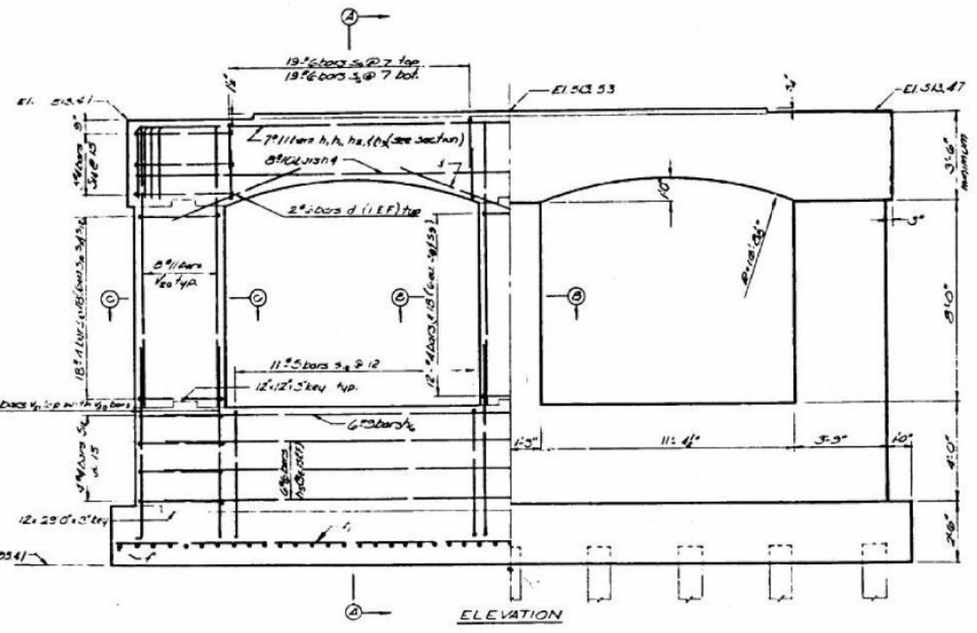


TOP PLAN

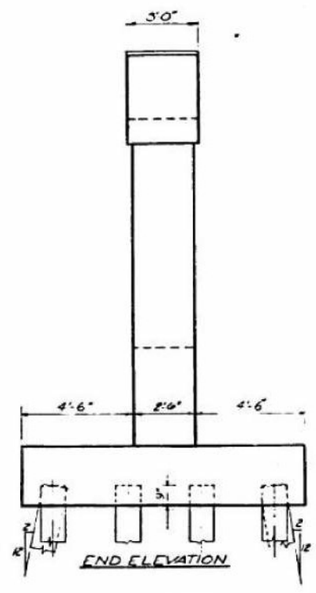
Note: See sheet 7 for location and size of fill plates.



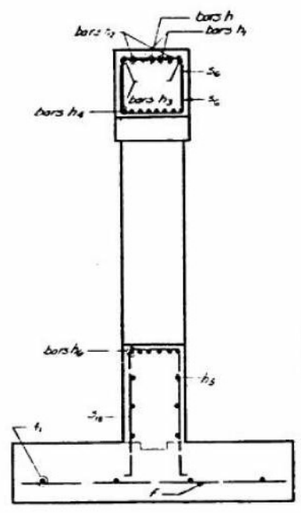
COLUMN SECTIONS



ELEVATION



END ELEVATION



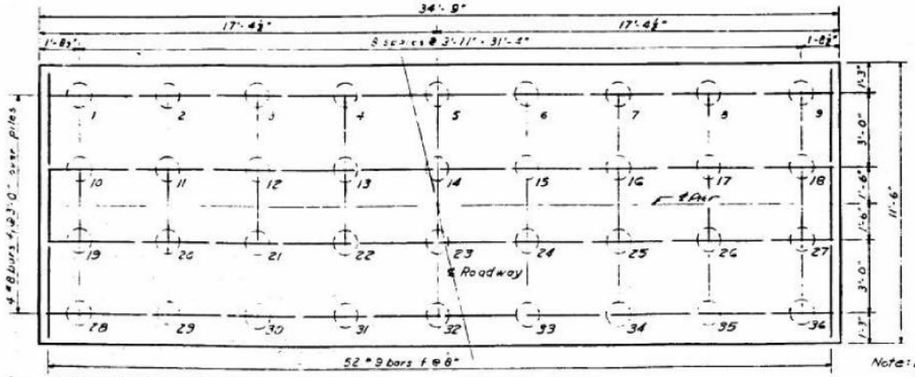
SECTION A-A

PILE DATA

Type : Creosoted Timber
Minimum Capacity 20 tons
Estimated Length 22'-0"
Number Required 55
Number Test piles 1

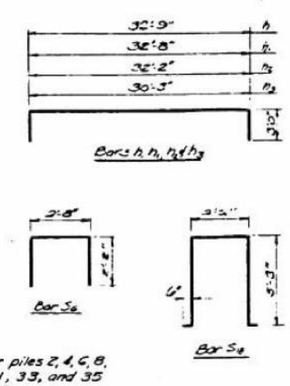
BILL OF MATERIAL

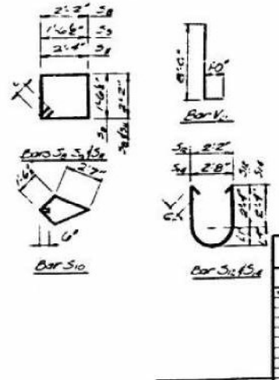
Bar	No.	Size	Length	Shape
d	8	6	6'-0"	
f	52	9	11'-0"	
f1	4	8	35'-0"	
h	1	11	38'-3"	
h1	2	11	38'-0"	
h2	2	11	38'-2"	
h3	2	11	36'-3"	
h4	8	10	30'-3"	
h5	6	6	30'-3"	
h6	6	9	30'-3"	
S6	76	6	7'-0"	
S8	6	4	9'-8"	
S9	6	4	7'-2"	
S10	12	4	9'-3"	
S11	12	4	10'-0"	
S12	12	4	9'-1"	
S13	6	4	9'-10"	
S14	22	5	13'-8"	
S20	24	11	11'-3"	
V21	24	11	9'-0"	
Class X Concrete		Cu.yds.	671	
Reinforcement Bars		Lbs	9,748	
Creosoted Piles 22'-38" Lgth		Lin ft	770	
Test Piles (Creosoted)		Each	1	
Class A Excavation		Cu.yds	19	



FOOTING PLAN

Note: Batter piles 2, 4, 6, 8, 29, 31, 33, and 35 @ 2:12.





Structures by: CLARK and DAILY, Consulting Engineers, Urbana, Illinois

PIER 2 - STRUCTURE XI-7HB

REVISIONS	STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	DRAWN BY DATE: RAJ# 12-28-57
	FAI 4 SECTION XI-7HB PROJECT I-04-1(14)	CHECKED BY DATE: WEB 12-28-57
	STA. 262 + 82.02 WILLIAMSON COUNTY	PROJECT NO. 1160
	HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	SHEET NO. 5 OF 9

CBD NO. 317-8

F.A.I ROUTE 4 SECTION XI-7HB WILLIAMSON CO PIER 2

MODEL: 20 Piles
FILE NAME: P:\5XX\54XX\55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\26 ExistingPlans.dgn

2/18/2023 8:05:33 AM

CDI CIVIL DESIGN, INC. WBE / DBE EFFINGHAM, IL LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -
	CHECKED - JS	REVISED -
PLOT SCALE =	DRAWN - RBT	REVISED -
PLOT DATE =	CHECKED - KAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

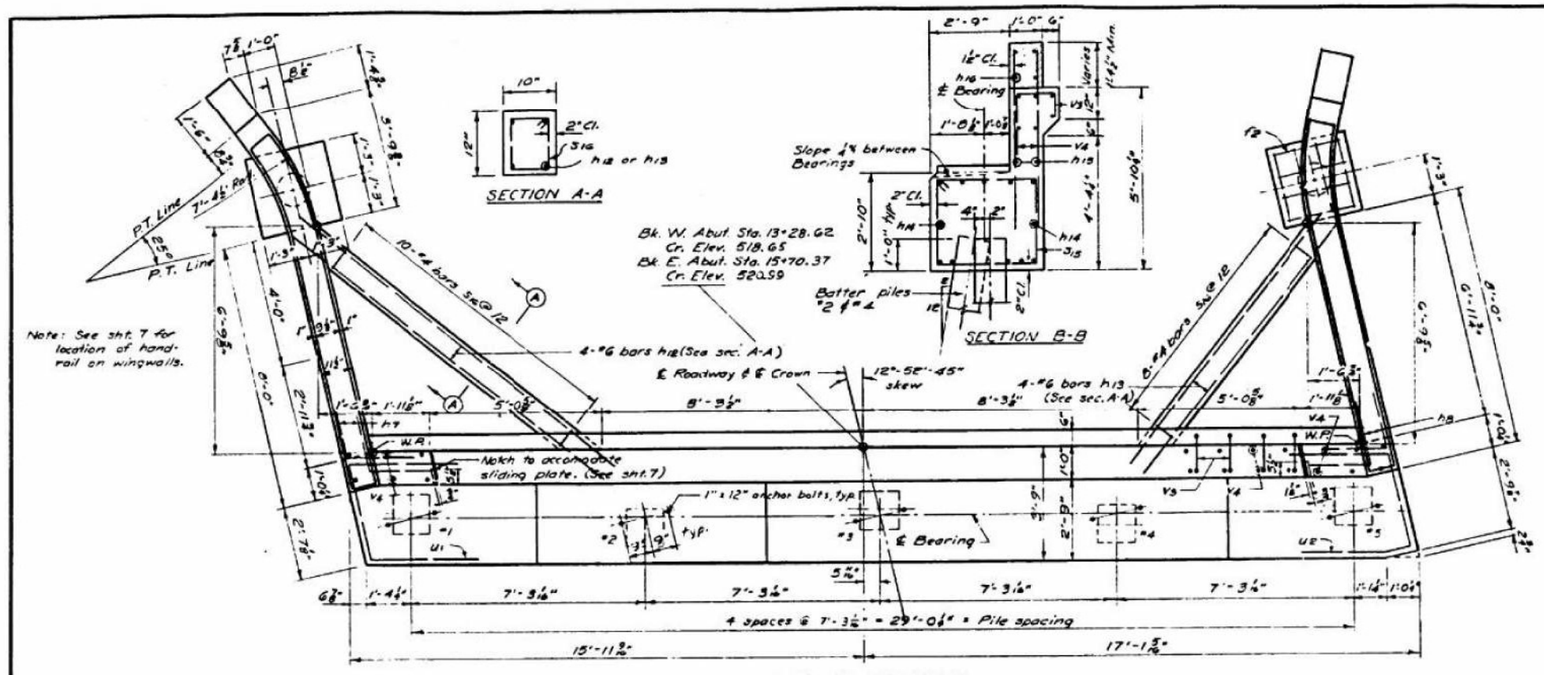
EXISTING PLANS
STRUCTURE NO. 100-0105
SHEET 26 OF 32 SHEETS

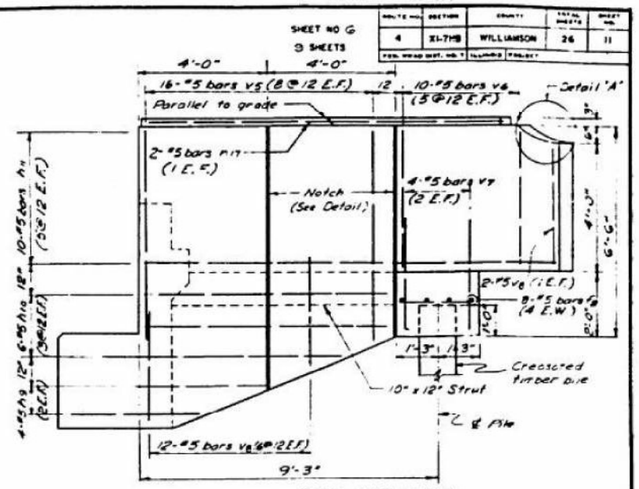
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	62
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

FAI 57

SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	XI-7HB	WILLIAMSON	26	11

SHEET NO 6
3 SHEETS





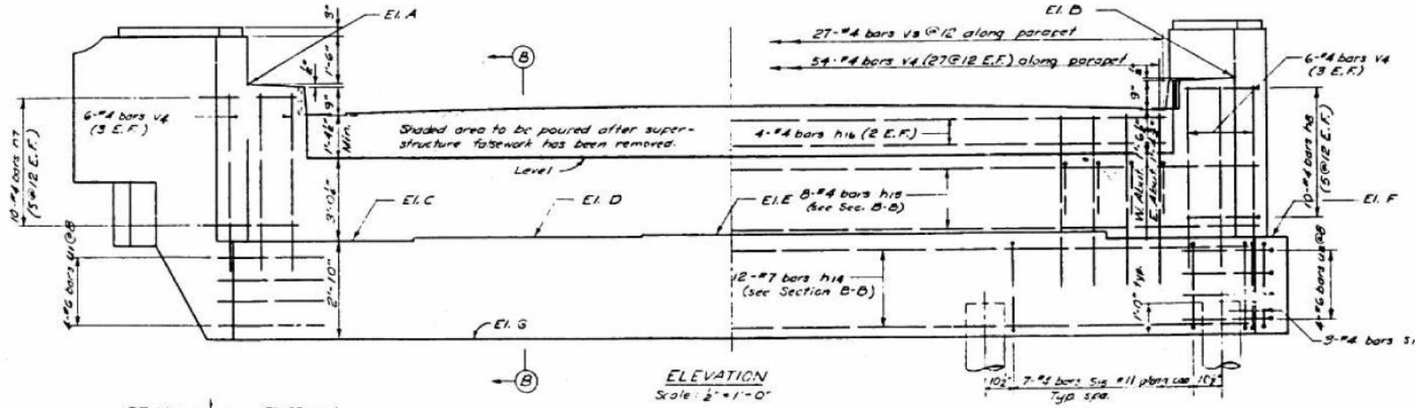


TABLE OF ELEVATIONS

Elev	Abutment	
	West	East
A	519.22	521.64
B	519.39	521.66
C	514.10	516.46
D	514.25	516.58
E	514.33	516.58
F	514.25	516.40
G	511.27	513.69

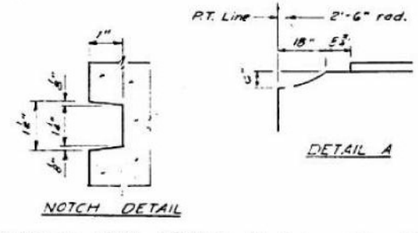
PILE DATA

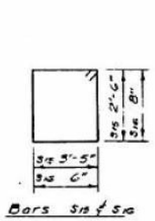
Concrete (See special provisions)
Capacity : 40 tons
Estimated Length : 40'-0"
No. Required : 8 (4 ea. abut.)
(Does not include test piles.)
Test Piles : 2 (1 ea. abut.)

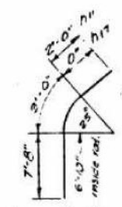
Creosoted Timber
Capacity : 10 tons
Estimated Length : 35'-0"
No. Required : 4 (2 ea. abut.)

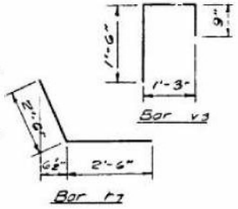
BILL OF MATERIAL - 2 ABUTS.

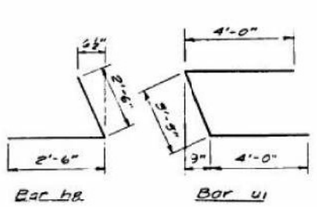
Bar	No.	Size	Length	Shape
V2	32	5	2'-0"	
h7	20	4	5'-0"	
h8	20	4	5'-0"	
h9	16	5	4'-0"	
h10	24	5	7'-8"	
h11	40	5	12'-8"	
h12	8	6	12'-9"	
h13	8	6	9'-8"	
h14	24	7	31'-0"	
h15	16	4	31'-8"	
h16	8	4	26'-0"	
h17	8	5	10'-8"	
S15	68	4	12'-6"	
S16	34	4	37'-0"	
V3	54	4	3'-6"	
V4	132	4	6'-0"	
V5	64	5	6'-6"	
V6	40	5	4'-2"	
V7	16	5	3'-8"	
V8	48	5	3'-5"	
U1	8	6	11'-5"	
U2	8	6	11'-5"	
Class X Concrete		Cu Yd.	53.1	
Reinforcement Bars		Lbs.	5,970	
Concrete Piles		Lin. Ft.	320	
Test Piles: Concrete		Ea.	2	
Creosoted Piles 20/-38		Lin. Ft.	120	

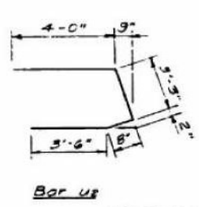












Structures by: CLARK and DAILY, Consulting Engineers, Urbana, Illinois

ABUTMENTS- STRUCTURE XI-7HB

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

F.A.I. 4 SECTION XI-7HB PROJECT I-04-1(14)
STA. 262+82.02 WILLIAMSON COUNTY

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

DRAWN BY RWA 12-26-67
CHECKED BY WGG 12-30-67
PROJECT NO. 1160
SHEET NO. 6 OF 9

REVISIONS
NO. DATE INITIALS

C&D NO. 317-B

F.A.I ROUTE 4 SECTION XI-7HB WILLIAMSON CO. ABUTMENTS

FAI 57

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	X1-7HB	WILLIAMSON	98	12
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT			

SHEET NO. 7 OF 9 SHEETS

ELEVATION

PLAN

END POST DETAILS

SECTION A-A

DETAIL 'B'

1¼"ø PINTLE DETAIL

1¼"ø Pinties 90 Required Thread or press fit into Bot. ℝ or top of rocker or tolster as shown

EXPANSION BEARING AT ABUTMENTS
10 reqd

EXPANSION BEARING AT PIERS 1&3
10 reqd All dims. not shown are same as exp. brg. at abuts.

FIXED BEARINGS AT PIER 2
5 reqd All dims. not shown are same as exp. brg. at abuts.

239'-8" Face to Face of End Posts

Face of End Post

℄ Pier 1

℄ Pier 2

℄ Pier 3

ELEVATION

TYPICAL CROSS SECTION

ELEVATION

PLAN

DETAIL "C"
Typical Connection

SECTION EXPANSION GUARD OVER PIERS 1&3

STRAP DETAIL

EXPANSION GUARD OVER PIERS 1&3

SECTION EXPANSION JOINT AT ABUTMENTS

EXPANSION JOINT AT ABUTMENTS

CAP DETAIL
Side View

RAIL POST BASE PLATE

HANDRAIL DETAILS

ANCHOR DEVICE
Ship with 4-1"ø x 3½" Hex Hd Bolts (3" Thd) in place

NAME PLATE CONNECTION DETAIL
Locate at S.W. Corner of Bridge

DETAIL 'D'

FILL PLATES (¼" thickness)

Girder	W. Abut	Pier 1	Pier 2	Pier 3	E. Abut
2	—	¾	1"	—	—
3	—	¾	¾	¾	¾
4	—	—	—	—	¾

*Girders are numbered 1 thru 5 from north to south

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural steel	Lbs.	14454
Metal Handrail	Lin. Ft.	12

STEEL DETAILS-STRUCTURE X1-7HB

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

F.A.I. 4 SECTION X1-7HB PROJECT I-04-1(14)
STA. 262+82.02 WILLIAMSON COUNTY

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
BECARD, ILLINOIS

DRAWN BY: R.B.T. DATE: 12-27-57
CHECKED BY: K.A.S. DATE: 1-2-58
PROJECT NO. 1160
SHEET NO. 7 OF 9

REVISIONS

C & D NO. 317-B

F.A.I. ROUTE 4 SECTION X1-7HB WILLIAMSON CO. STEEL DETAILS

MODEL: 20 Piles
FILE NAME: P:\5XX\54XX\55XX\5574 • PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\28 ExistingPlans.dgn

2/18/2023 8:07:14 AM

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

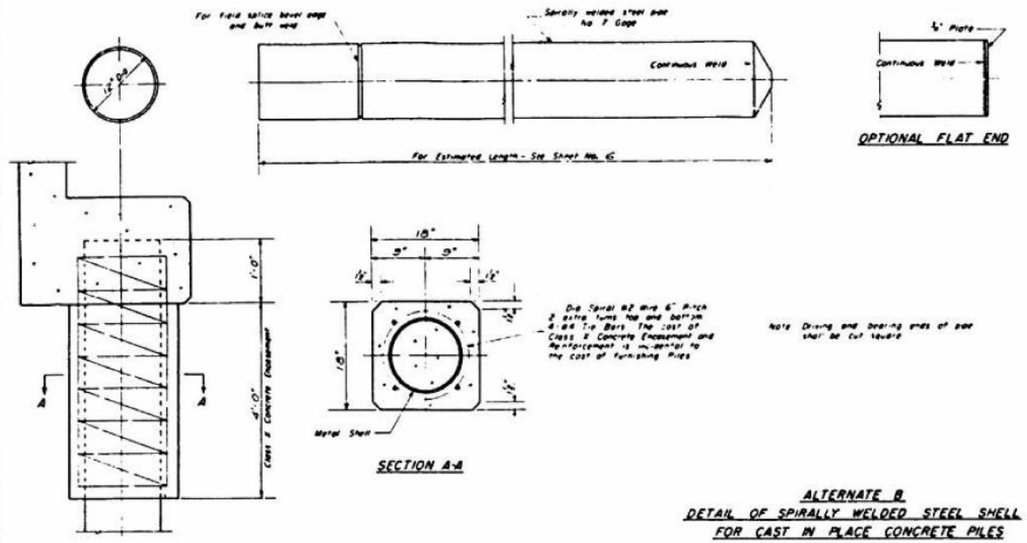
USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

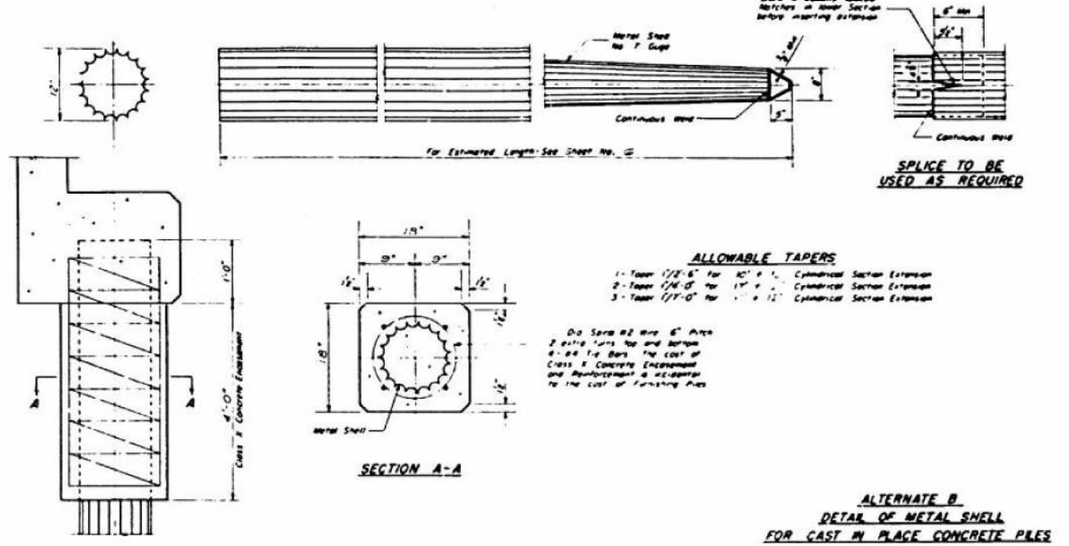
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

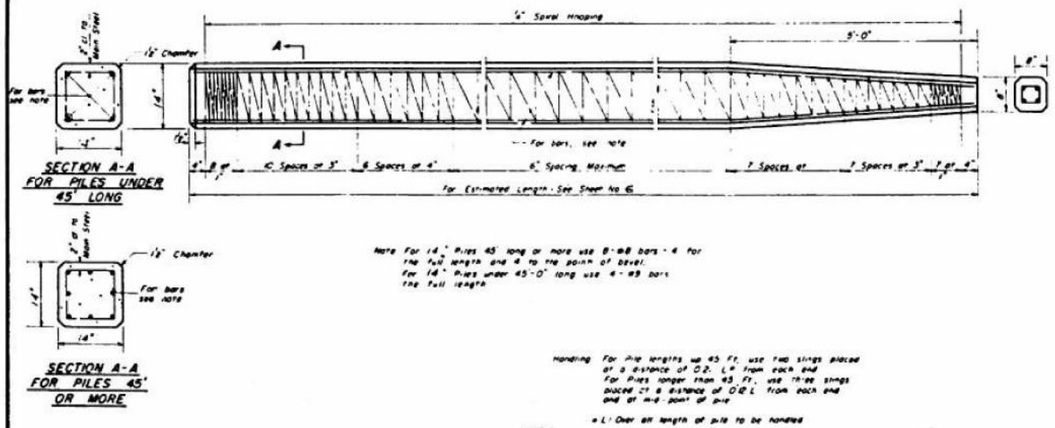
EXISTING PLANS
STRUCTURE NO. 100-0105
SHEET 28 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	64
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

FAI 57







SHEET NO.				
9 SHEETS				
4	11-7HB	WILLIAMSON	26	13

PILE DETAILS- STRUCTURE XI-7HB

REVISIONS	STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	DRAWN BY / DATE: CBP 12-30-57
	F.A.I. 4 SECTION XI HB PROJECT 04 (1)(2)	CHECKED BY / DATE: GMJ 12-30-57
	STA. 262 + 82.02 WILLIAMSON COUNTY	PROJECT NO. 1166
	HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	SHEET NO. 8 OF 9

C.B.D. NO. 317-B

F.A.I. ROUTE 4 SECTION XI-7HB WILLIAMSON CO. PILE DETAILS

CDI CIVIL DESIGN, INC. WBE / DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME =	DESIGNED - RBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 100-0105
		CHECKED - JS	REVISED -		
	PLOT SCALE =	DRAWN - RBT	REVISED -		
	PLOT DATE =	CHECKED - KAS	REVISED -		SHEET 29 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	65
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

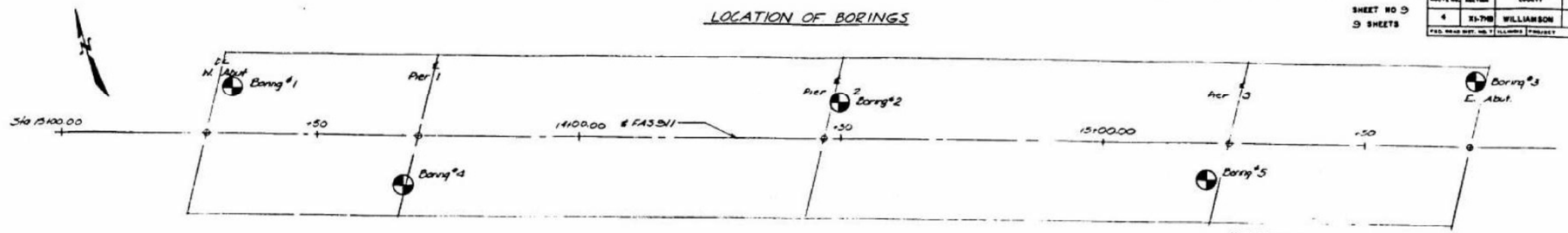
MODEL: 20 Piles
FILE NAME: P:\SXX\154XX-55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\29 ExistingPlans.dgn
2/18/2023 8:08:03 AM

FAI 57

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	X1-7HB	WILLIAMSON	26	14
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

SHEET NO 9
9 SHEETS

LOCATION OF BORINGS



195.40 N Qu

10	-	
22	2.7	
13	2.5	
22	-	
20	2.3	
17	3.1	
20	2.5	
23	3.9	
29	3.7	
30	-	
24	-	
45	-	
35	-	
64	-	
60	-	
70	-	
23	-	
57	-	
42	-	
36	-	
28	2.0	
48	4.5	
89	-	
58	-	
98	-	
39	-	
114	-	

Topsoil--Brown silty sand with trace of clay, gravel and organic matter. Loose.

Brown silty clay with some yellow and gray mottling, trace of sand and gravel. Very stiff.

Ground water in sand layer.

Brown silty clay with trace of sand and gravel. Very stiff.

Brown silty sand with trace of gravel. Medium.

Brown gravelly sand with trace of silt. Dense.

Gray clayey silt with trace of sand and gravel. Medium.

Gray sandy silt with trace of gravel and clay. Dense.

Gray silty clay with trace of sand and gravel. Very stiff.

Gray silt with trace of sand and clay. Very dense.

Gray sandy gravel with trace of silt. Very dense.

Gray gravelly sand. Very dense.

Gray sandy silt with trace of clay and gravel. Very dense.

Sandstone bedrock.

Boring #1
Sta 13+83.16
9' Left of ℄

500.30 N Qu

17	2.5	
12	1.1	
4	-	
2	-	
17	1.4	
32	3.9	
35	3.9	
27	3.5	
26	2.7	
24	4.5	
22	3.1	
19	2.7	
22	2.5	
21	2.5	
21	2.7	
11	1.1	
13	2.1	
14	1.1	
15	1.6	
24	2.7	
61	2.9	
42	-	
30	2.0	
16	1.2	
129	-	

Bituminous pavement.

Brown silty clay with trace of sand and gravel. Very stiff.

Gray silty clay with trace of sand and gravel. Stiff.

Gray silty clay. Soft.

Brown silty clay with some yellow and gray mottling, trace of sand and gravel. Very soft.

Ground water encountered at 492.00.

Brown silty clay with trace of sand and gravel. Very stiff.

Gray silty clay with trace of sand and gravel. Stiff.

Gray silt with trace of clay and sand. Dense.

Gray silty clay with trace of sand and gravel. Very stiff.

Gray sandy silt with trace of clay and gravel. Very dense.

Sandstone bedrock

Boring #4
Sta 13+66.16
35' Right of ℄

502.80 N Qu

24	-	
20	4.0	
17	3.0	
21	-	
18	-	
20	6.4	
20	2.7	
28	2.5	
29	2.3	
31	3.0	
35	4.9	
30	-	
28	1.8	
37	3.3	
37	3.3	
26	1.1	
31	-	
49	-	
70	-	
52	-	
20	2.9	
22	2.0	
36	2.1	
59	-	
125	3.3	

Bituminous pavement.

Brown silty clay, some yellow and gray mottling with trace of sand and gravel. Very stiff. Moist.

Ground water encountered at 494.30.

Brown and yellow sand with trace of gravel and silt. Medium. Moist.

Brown silty clay, some yellow and gray mottling with trace of sand and gravel. Very stiff. Moist.

Brown silty clay with trace of sand and gravel. Very stiff. Moist.

Gray silty clay with trace of sand and gravel. Very stiff.

Brown silty clay with trace of sand and gravel. Hard. Moist.

Gray silty clay with trace of sand and gravel. Very stiff. Moist.

Gray silt with trace of clay and sand. Very dense. Moist.

Gray silty clay with trace of sand and gravel. Very stiff. Moist.

Bedrock--sandstone.

Boring #2
Sta 14+49.66
7' Left of ℄

505.36 N Qu

24	5.1	
32	4.0	
50	3.9	
40	4.1	
18	2.1	
38	3.5	
39	4.5	
34	3.7	
35	3.5	
41	3.1	
37	3.0	
42	3.9	
39	3.1	
43	3.5	
41	2.7	
78	2.3	
106	-	
92	-	
20	1.3	
22	1.3	
18	1.3	
30	1.5	
28	1.5	
57	-	
74	-	
81	-	
42	-	

Bituminous pavement

Brown silty clay with some yellow and gray mottling, trace of sand and gravel. Hard.

Brown silty clay with trace of sand and gravel. Hard.

Brown gravelly sand with trace of silt. Very dense.

Gray silty clay with trace of sand and gravel. Very stiff. Moist.

Gray gravelly sand with trace of silt and clay. Very dense.

Gray sandy gravel. Very dense.

Gray sandy gravel with trace of silt and clay. Dense.

Sandstone bedrock.

Boring #5
Sta 15+20.16
7' Right of ℄

507.40 N Qu

6	-	
2	-	
17	2.1	
34	5.5	
28	6.4	
30	3.1	
38	3.3	
28	3.3	
33	1.6	
34	4.3	
33	2.9	
32	3.5	
37	3.4	
40	4.3	
42	3.1	
41	3.3	
43	3.3	
44	3.3	
41	-	
40	1.6	
40	1.4	
34	1.6	
36	2.0	
38	2.3	
17	-	
22	-	
23	-	
120	3.9	

Bituminous pavement.

Brown silty clay with trace of sand and gravel, organic matter. Soft.

Brown silty clay, some yellow and gray mottling with trace of sand and gravel. Stiff.

Brown silty clay with trace of sand and gravel. Hard.

Gray silty clay with trace of sand and gravel. Very stiff.

Brown silty clay with trace of sand and gravel. Hard.

Gray silty clay with trace of sand and gravel. Hard.

Brown silty clay with trace of sand and gravel. Very stiff.

Gray silty clay with trace of sand and gravel. Hard.

Sandstone bedrock

Boring #3
Sta. 15+71.86
13' Left of ℄

Boring data are shown only as a guide to bidders in estimating soil conditions which may be encountered in the work.

N Blows per foot of penetration of sampling spoon. Hammer weight = 140 lbs. Drop = 30 inches.

Qu Unconfined compressive strength in tons per square foot.

Structures by: CLARK and DAILY, Consulting Engineers, Urbana, Illinois

BORING DATA-STRUCTURE XI-7HB

REVISIONS			STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	DRAWN BY / DATE: RKW 12-27-57
NO.	DATE	INITIALS		CHECKED BY / DATE: GWZ 1-2-58
			F.A.I. 4 SECTION XI-7HB PROJECT I-04-1(15)	
			STA. 262+82.02 WILLIAMSON COUNTY	PROJECT NO. 1180
			HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	SHEET NO. 9 OF 9

C&D NO. 317-B

F.A.I ROUTE 4 SECTION XI-7HB WILLIAMSON CO. BORING DATA

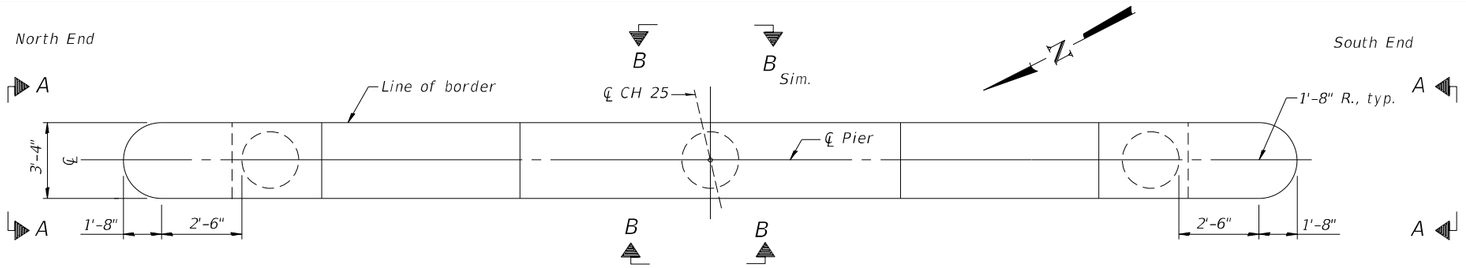
CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

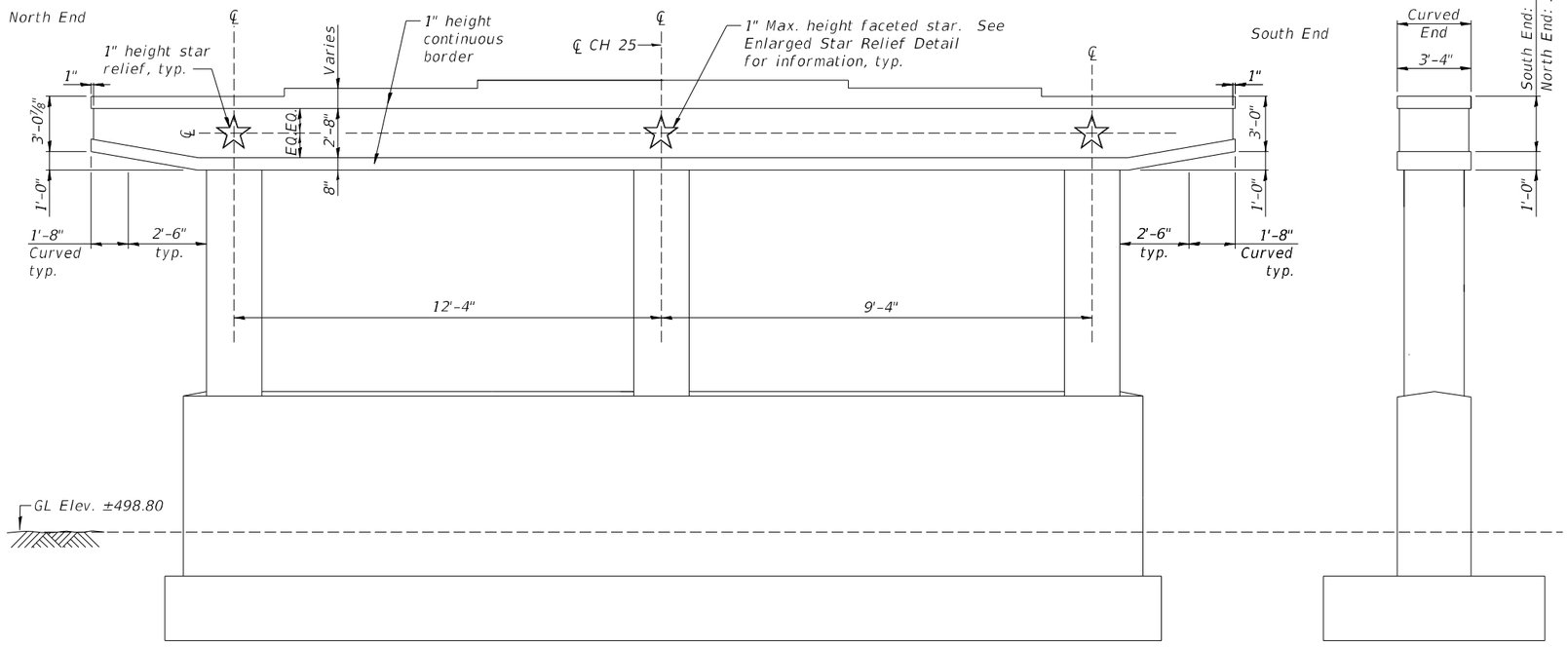
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 100-0105
SHEET 30 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	66
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

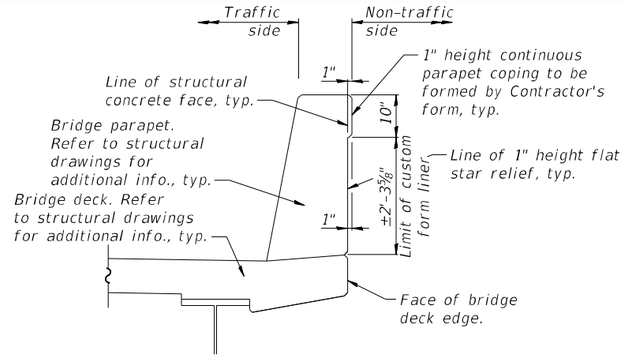


PIER TOP PLAN

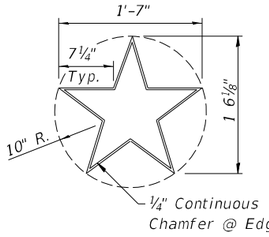


VIEW B-B – PIER ELEVATION WEST FACE

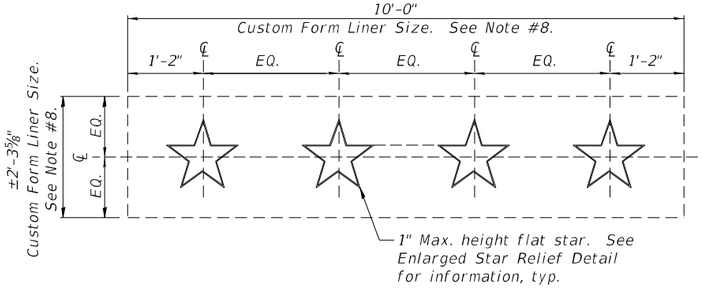
VIEW A-A – PIER END



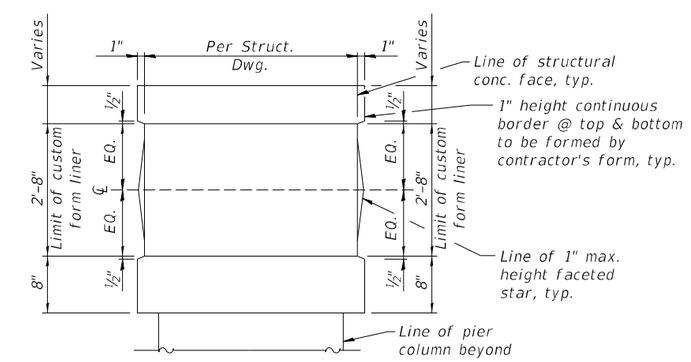
DETAIL C
VEHICULAR PARAPET WALL SECTION



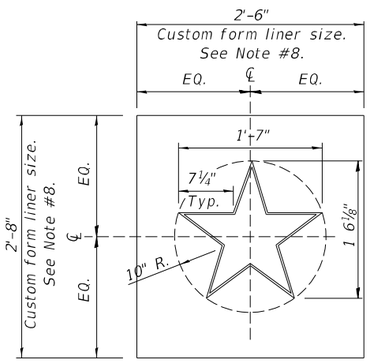
ENLARGED STAR RELIEF DETAIL



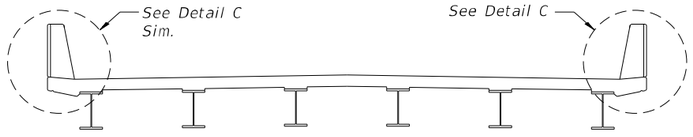
TYPICAL PARAPET STAR PATTERN DETAIL



PIER CAP DETAIL



PIER STAR DETAIL



BRIDGE DECK CROSS SECTION

Notes:

1. Do not scale off drawings.
2. Drawings are only a graphic representation. All required structural components and information are omitted and/or minimized for the purpose of graphic clarity. Contractor shall refer to structural drawings for information of all structural component requirements.
3. Contractor to refer to structural drawings for accurate dimensions of bridge span and all associated components.
4. All patterns shall not encroach into minimum and/or clear dimensions determined by structural drawing.
5. Contractor to refer to project special provisions for special casting notes, detail and mock-up requirement, concrete finish and notes, etc. All custom patterns to be reviewed and approved by the Engineer prior to casting of form liners.
6. All form liner patterns shall be inspected and approved by the Engineer.
7. Contractor shall submit shop drawings with pattern layout for approval by the Engineer.
8. All form liners manufactured for custom patterns shall be inverse of corresponding patterns.

MODEL: 19 Pier
FILE NAME: P:\5XXX\54XX\55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CAD\Bridge\31 Aesthetics1.dgn

2/18/2023 8:09:45 AM

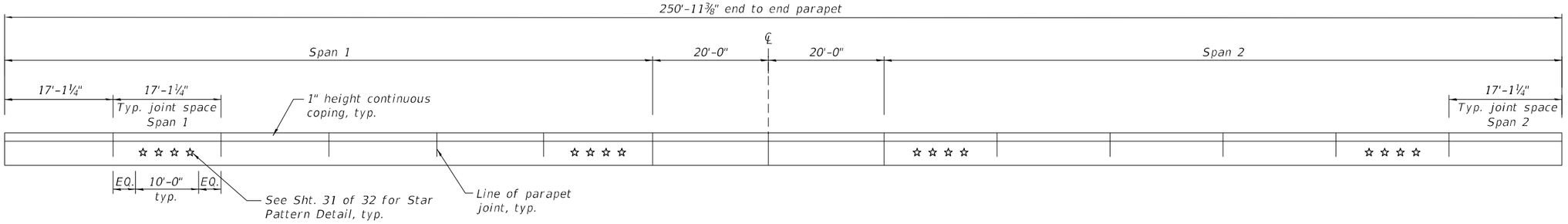
CIVIL DESIGN, INC. WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -	
	CHECKED - JS	REVISED -	
PLOT SCALE =	DRAWN - RBT	REVISED -	
PLOT DATE =	CHECKED - KAS	REVISED -	

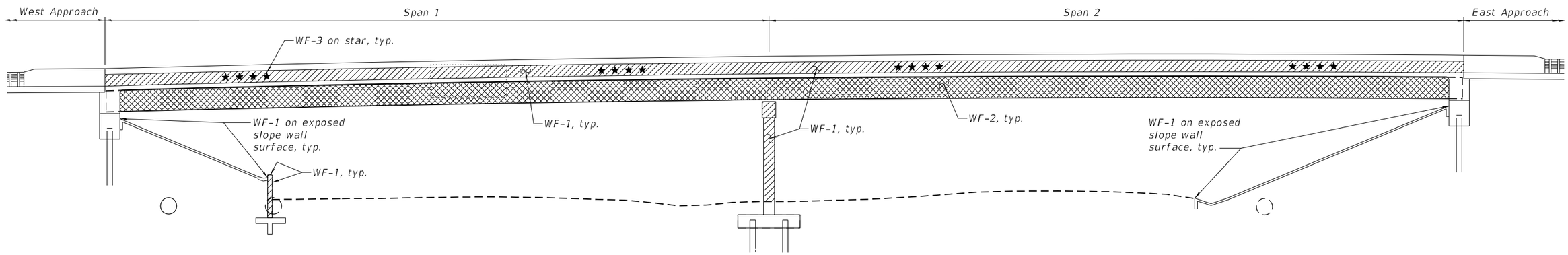
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AESTHETIC SHEETS
STRUCTURE NO. 100-0105
SHEET 31 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	67
		CONTRACT NO. 78945		
		ILLINOIS FED. AID PROJECT		



VEHICULAR PARAPET WALL ELEVATION: BOTH EXTERIOR FACES



BRIDGE ELEVATION: FINISHES

Notes:

1. Do not scale off drawings.
2. Drawings are only a graphic representation. All required structural components and information are omitted and/or minimized for the purpose of graphic clarity. Contractor shall refer to structural drawings for information of all structural component requirements.
3. Contractor to refer structural drawings for accurate dimensions of bridge span and all associated components.
4. All exposed concrete surfaces receiving stain seal shall be properly prepared per specifications prior to any installation.
5. All concrete stain application shall be limited to specified exposed surfaces above finished grade.
6. Contractor to refer to online site at www.federalstandardcolor.com for the federal standard color ID number.
7. Contractor shall submit stain color sample for review and approval by the Engineer.

Finish Legend (Exclude Perforated Sheet Metal Colors)					
Type	Symbol	Federal Color ID No.	Munsell Color No.	Color	Finish Type
WF-1		27778	10YR 9/2	General/Light Neutral	Semigloss
WF-2		11105	5R 3/10	Accent/Beam Red	Gloss
WF-3		23448	10YR 6/4	Accent/Warm Gray	Semigloss

MODEL: 19 Pier
FILE NAME: P:\5XX\54XX-55XX\5574 - PTB 203-048 D9 Veenstra Kimm\WO 1\24-Structures\CADD\Bridge\32 Aesthetics2.dgn
2/18/2023 8:09:55 AM

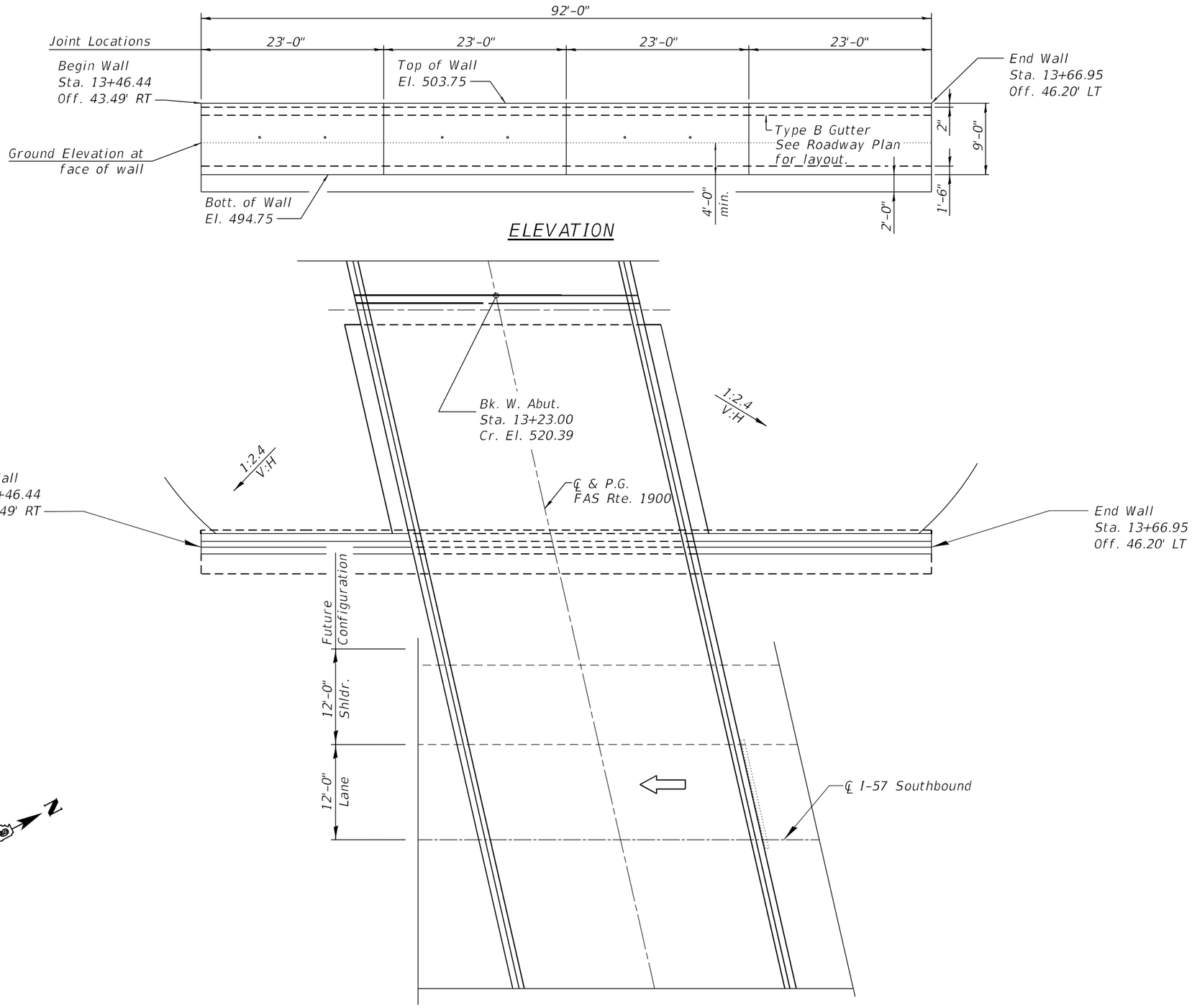
CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - RBT	REVISED -
	CHECKED - JS	REVISED -
PLOT SCALE =	DRAWN - RBT	REVISED -
PLOT DATE =	CHECKED - KAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AESTHETIC SHEETS
STRUCTURE NO. 100-0105
SHEET 32 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	68
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



CIVIL DESIGN, INC. WBE | DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL PLAN & ELEVATION

SHEET NO. 1 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	96	67
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.

2. The allowable soil bearing capacity required shall be a minimum of 1,500 p.s.f. The Contractor shall verify soil properties and notify the Engineer if bearing capacity values are not encountered at bottom of footing elevations.

3. All exposed concrete edges shall have a ¾" x 45° Chamfer, U.N.O. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground elevation.

4. Cost of P.J.F. shall be included in cost of Concrete Structures (Retaining Wall).

5. Backfill shall be placed behind the retaining wall after the structure has been poured and and form work removed. See Article 502.10 of the Standard Specifications.

6. Concrete Sealer shall be applied to the exposed surfaces of the retaining wall.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.

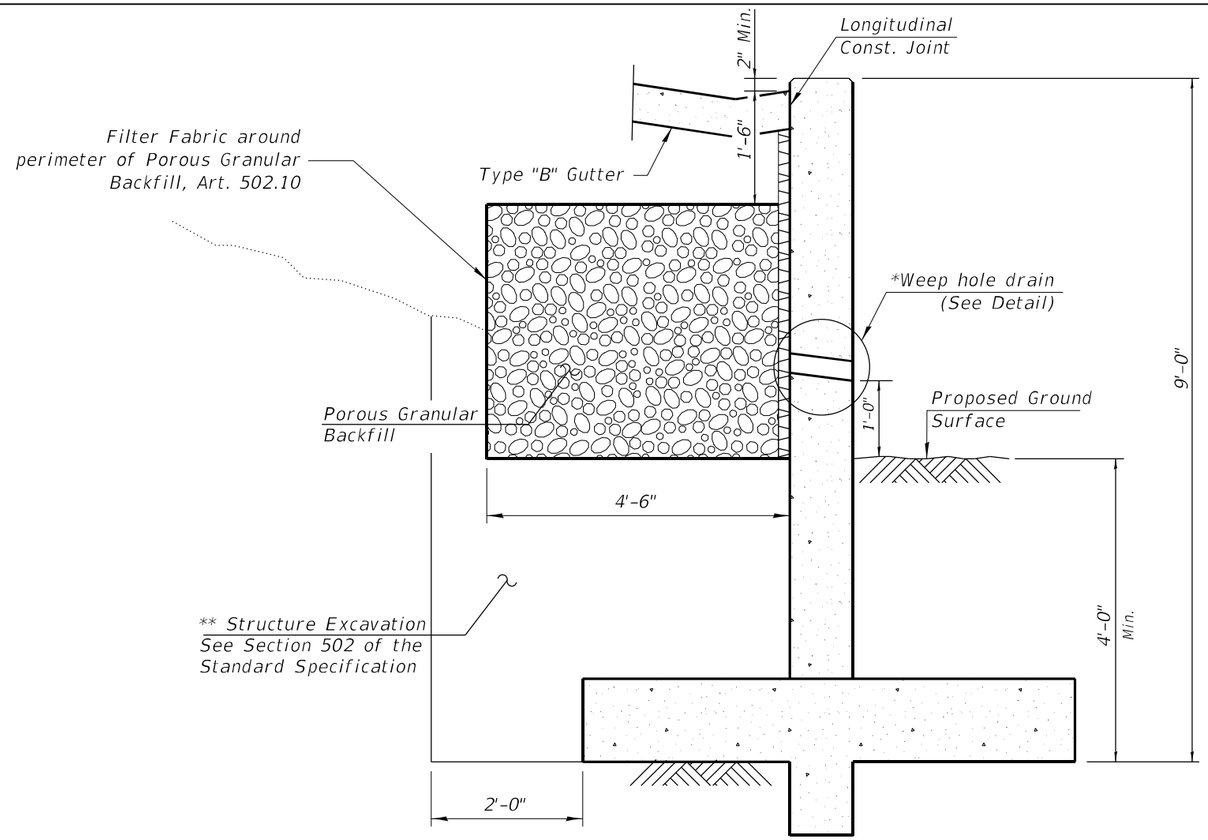
IDOT Bridge Manual

DESIGN STRESSES

FIELD UNITS

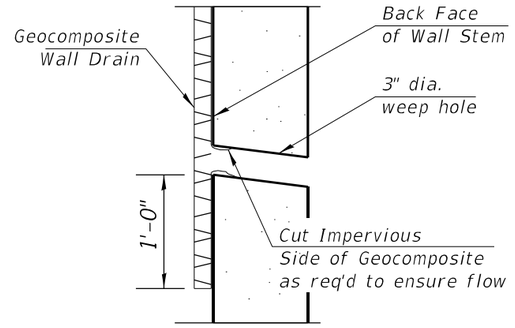
f' = 3,500 psi

f = 60,000 psi (Reinforcement)



Drainage Details For T-Type Retaining Wall

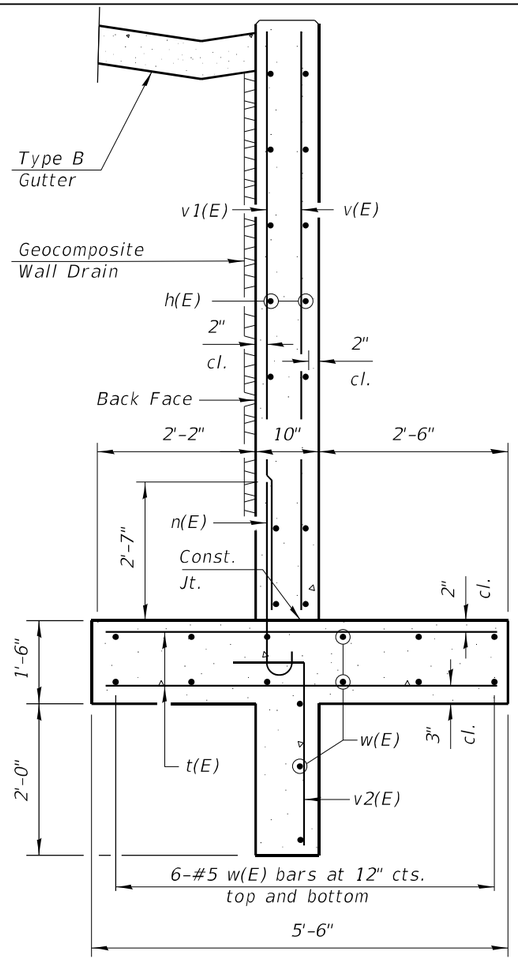
** Backfill remainder of structure excavation and over excavation with same material specified for roadway embankment.



Weep Hole Drain Detail

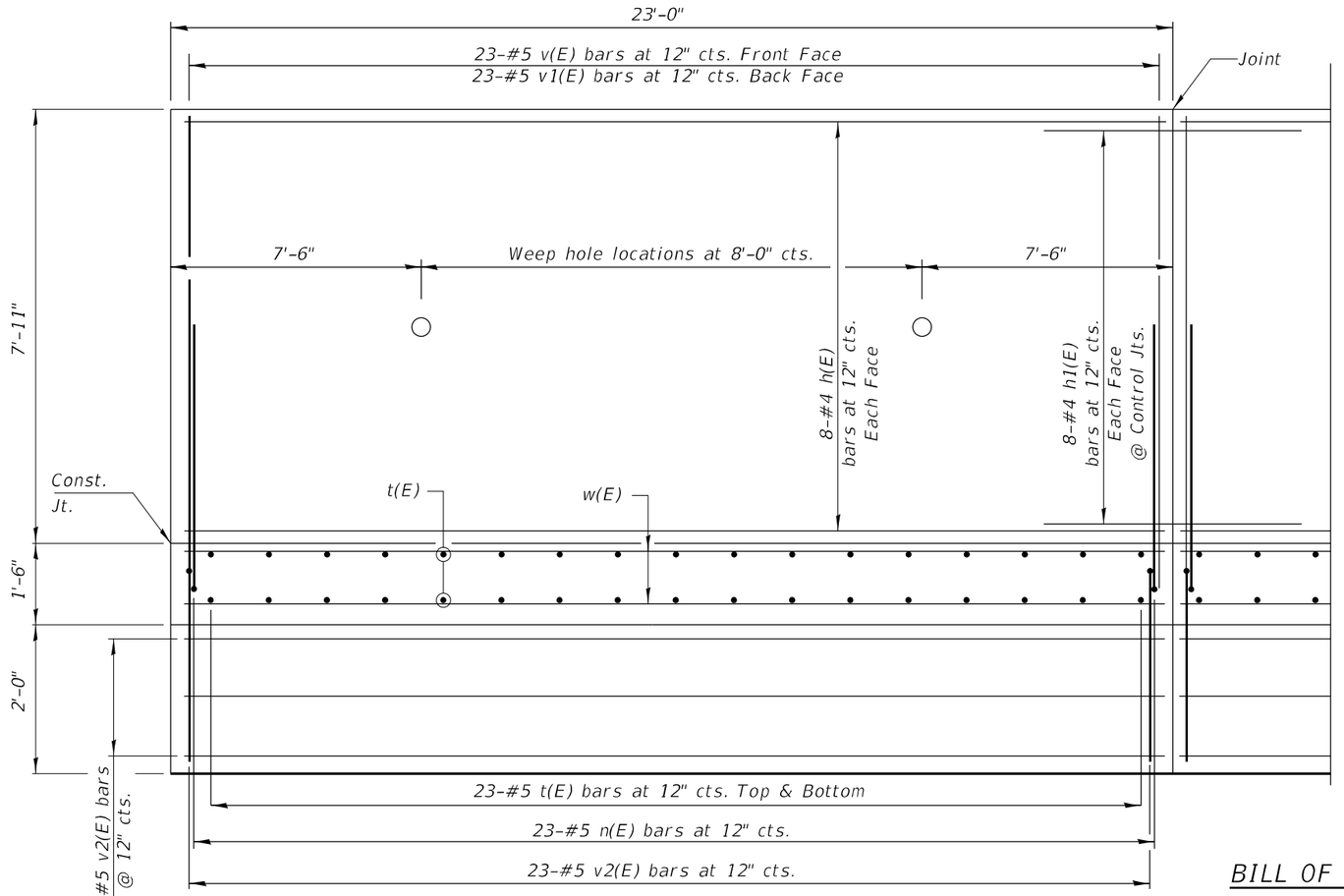
CIVIL DESIGN, INC. WBE / DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RETAINING WALL GENERAL NOTES & DATA
		CHECKED -	REVISED -		
	PLOT SCALE =	DRAWN -	REVISED -		SHEET NO. 2 OF 3 SHEETS
	PLOT DATE =	CHECKED -	REVISED -		

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	96	68
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			



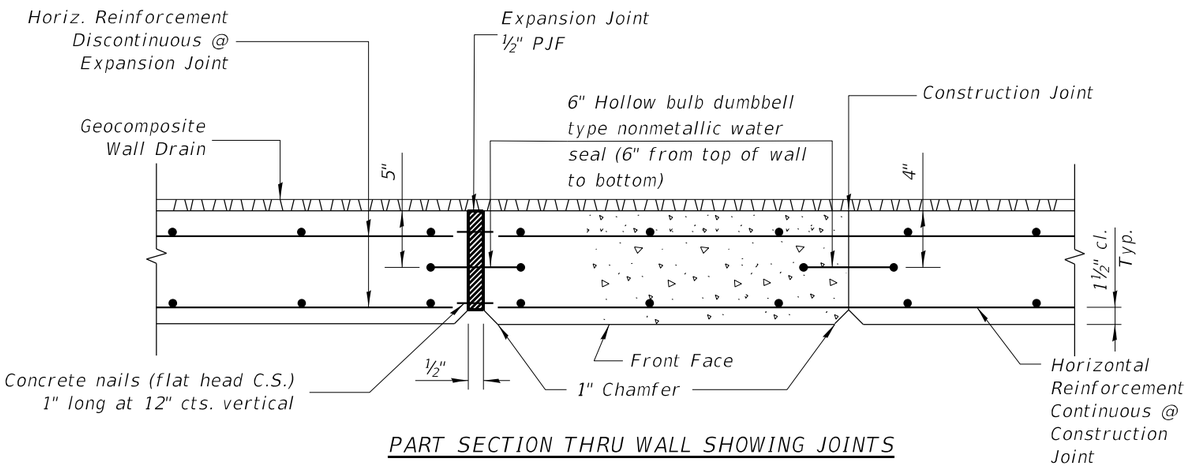
SECTION THRU RETAINING WALL SHOWING REINFORCEMENT

(Max. Applied Service Bearing Pressure = 1.5 ksf)

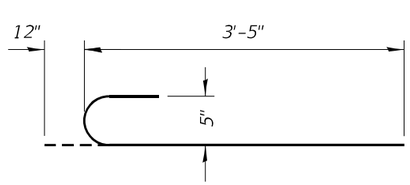


PART ELEVATION

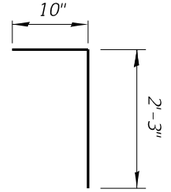
(Typ. each section)



PART SECTION THRU WALL SHOWING JOINTS



BAR n(E)



BAR v2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	64	#4	22'-8"	———
h1(E)	48	#4	6'-0"	———
n(E)	92	#5	4'-3"	⊂——⊃
t(E)	184	#5	6'-6"	———
v(E)	92	#5	7'-7"	———
v1(E)	92	#5	7'-8"	———
v2(E)	92	#5	3'-1"	⌐
w(E)	60	#5	22'-8"	———
Filter Fabric			Sq. Yd.	181
Structure Excavation			Cu. Yd.	322
Geocomposite Wall Drain			Sq. Yd.	44.3
Concrete Sealer			Sq. Ft.	545
Concrete Structures (Retaining Wall)			Cu. Yd.	55.1
Reinforcement Bars, Epoxy Coated			Pound	6,000
Porous Granular Backfill			Cu. Yd.	42.6

CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE #184.003222

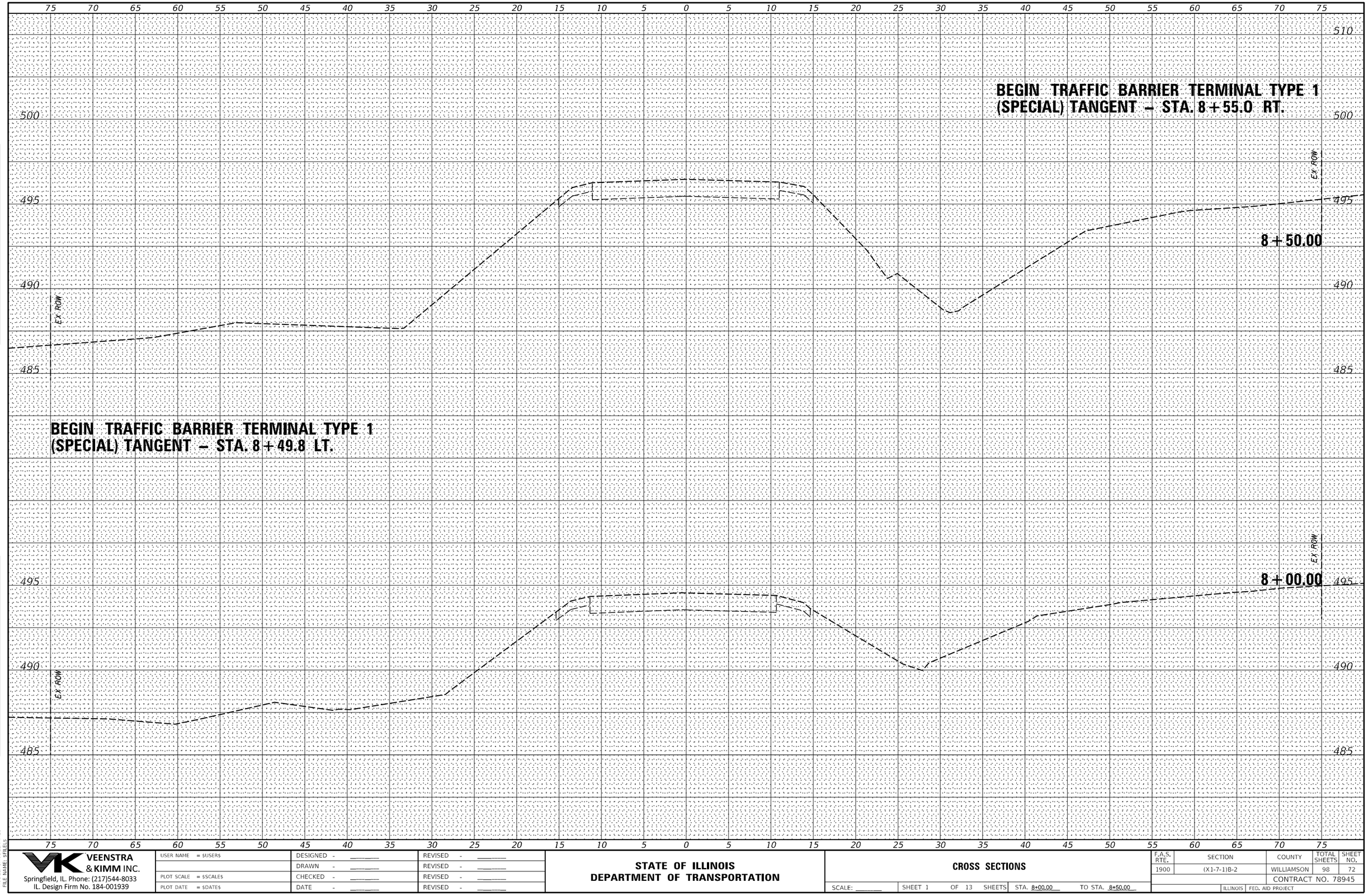
USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL REINFORCING DETAILS

SHEET NO. 3 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	96	69
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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

MODEL: $MODELNAME$
FILE NAME: $FILEL$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

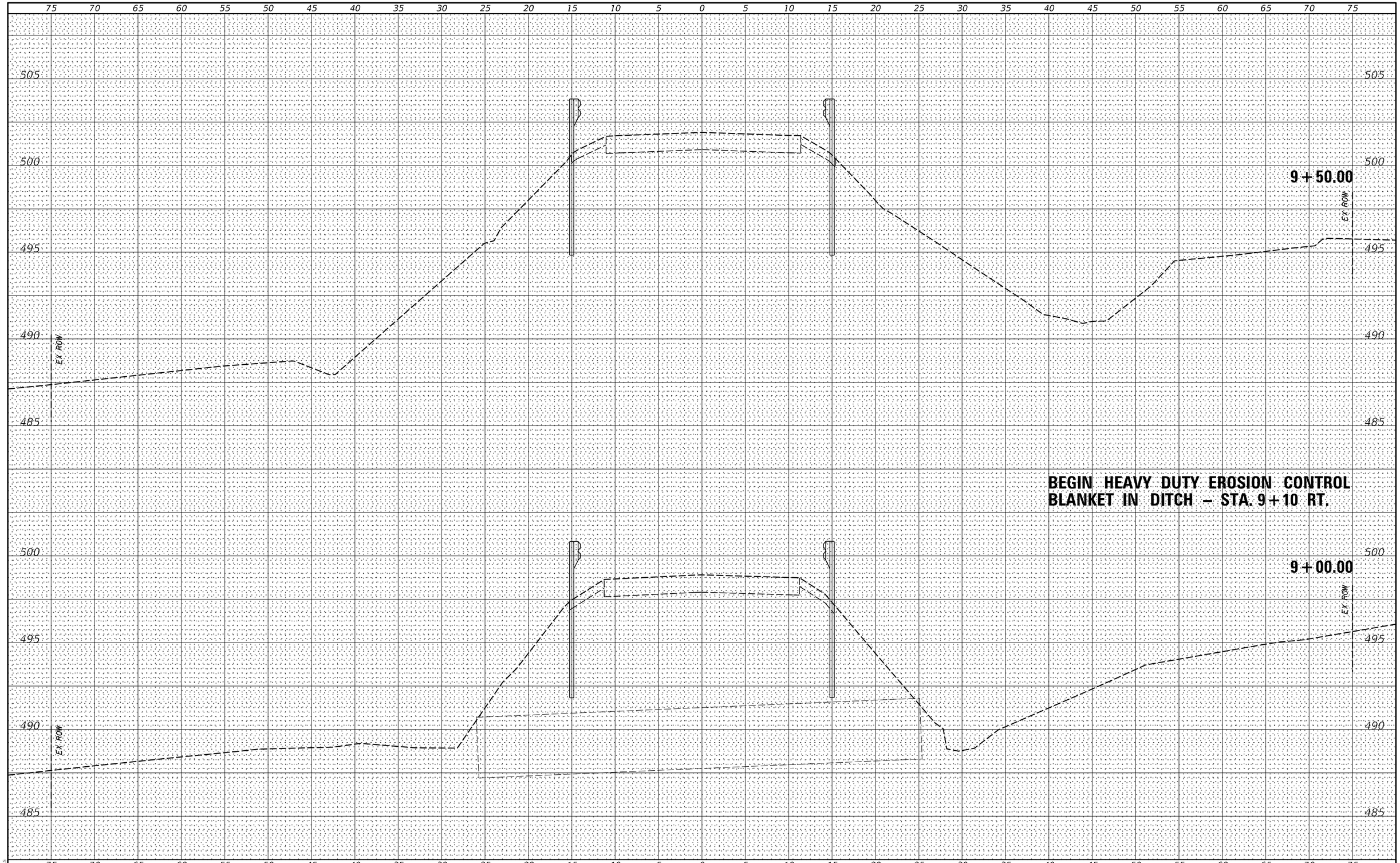
USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: _____ | SHEET 1 OF 13 SHEETS | STA. 8+00.00 | TO STA. 8+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	72
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

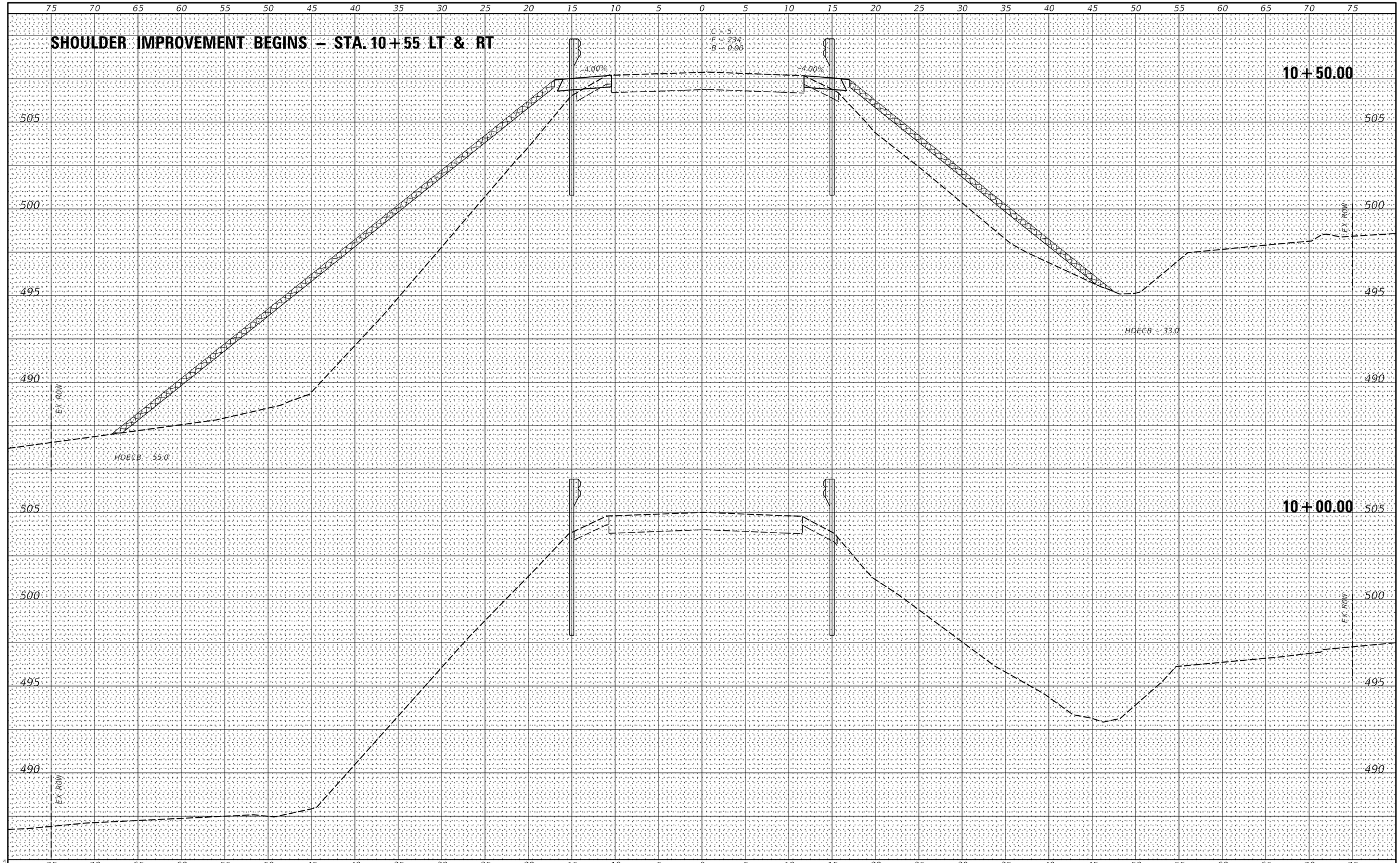
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: _____ | SHEET 2 OF 13 SHEETS | STA. 9+00.00 | TO STA. 9+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	73
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

SHOULDER IMPROVEMENT BEGINS – STA. 10+55 LT & RT



FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

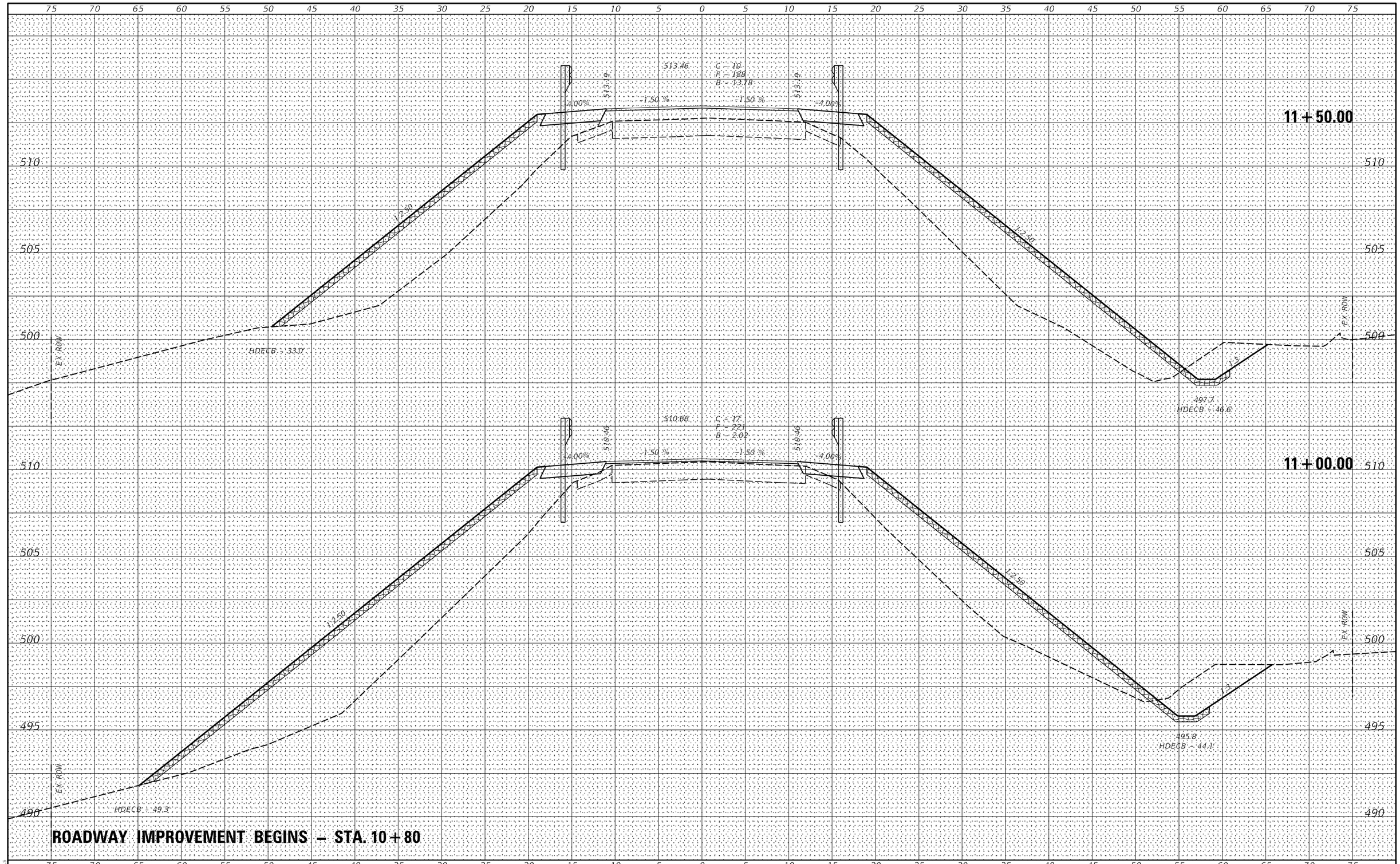
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET 3 OF 13 SHEETS | STA. 10+00.00 TO STA. 10+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	74
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



ROADWAY IMPROVEMENT BEGINS – STA. 10 + 80

FINAL SURVEY	NOTE BOOK	NO.
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

BY	DATE

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET 4 OF 13 SHEETS | STA. 11+00.00 | TO STA. 11+00.00

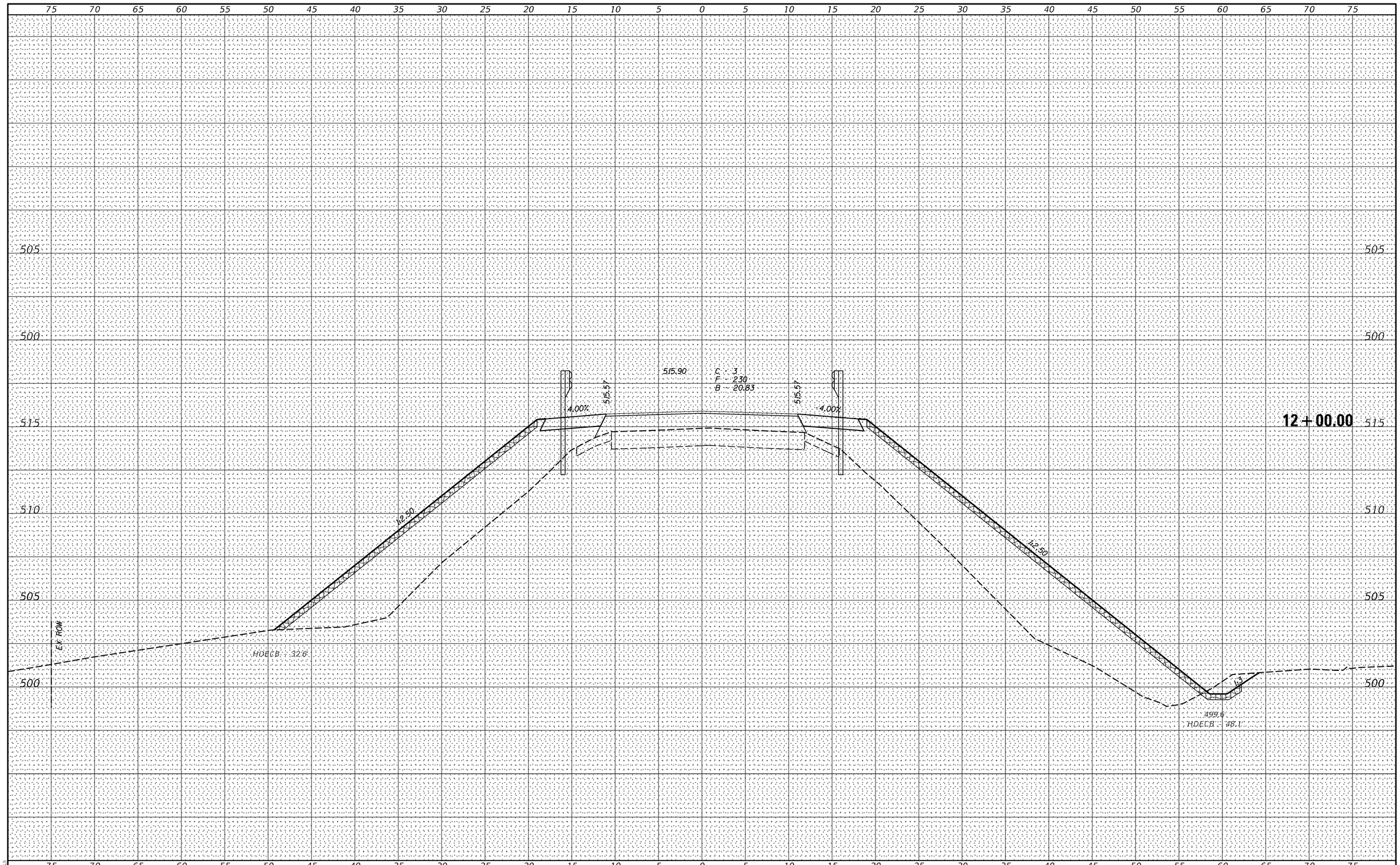
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	75
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

BY	DATE



MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

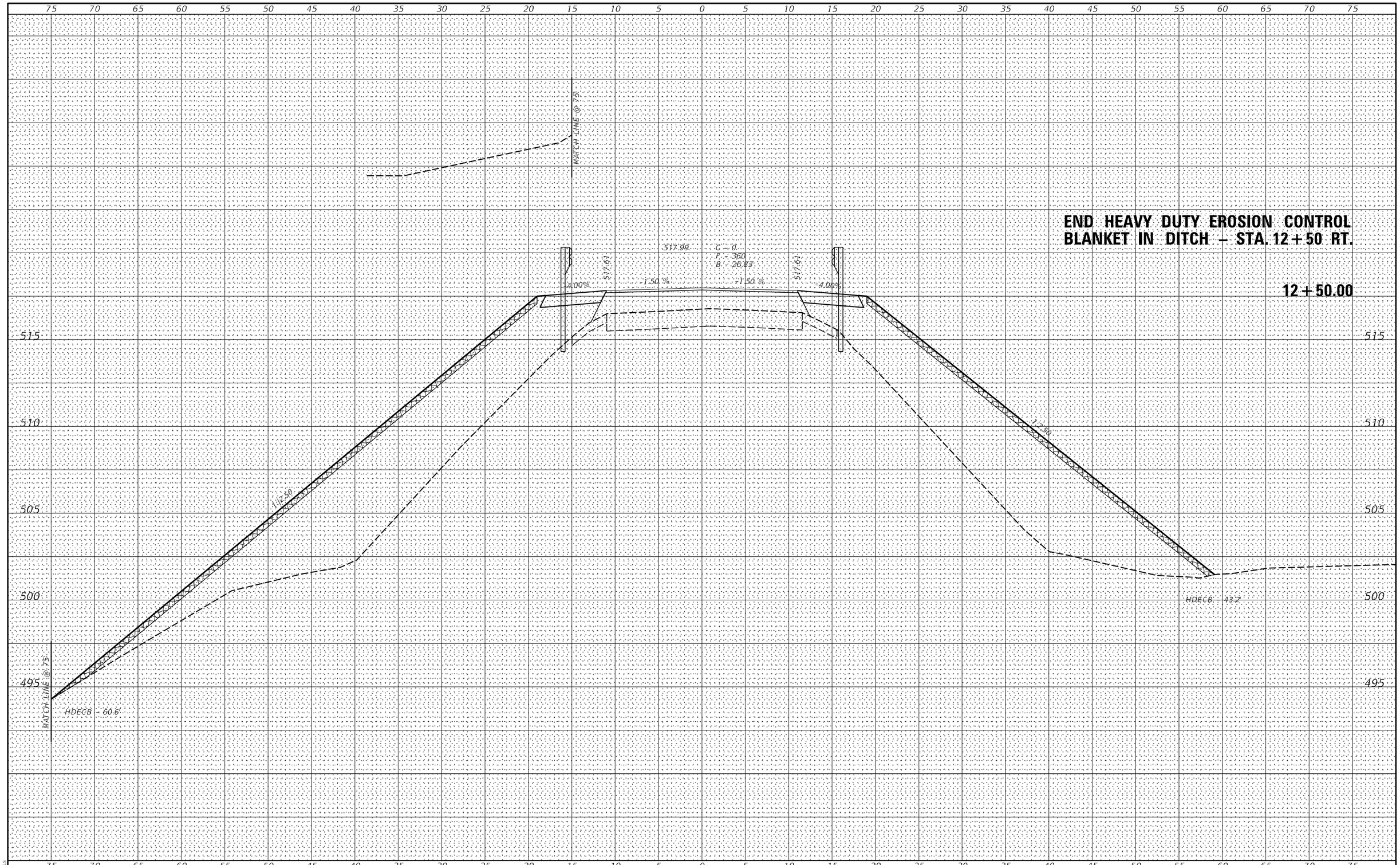
CROSS SECTIONS

SCALE: _____ | SHEET 5 OF 13 SHEETS | STA. 12+00.00 | TO STA. 12+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	76
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

END HEAVY DUTY EROSION CONTROL BLANKET IN DITCH – STA. 12+50 RT.

12+50.00



USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

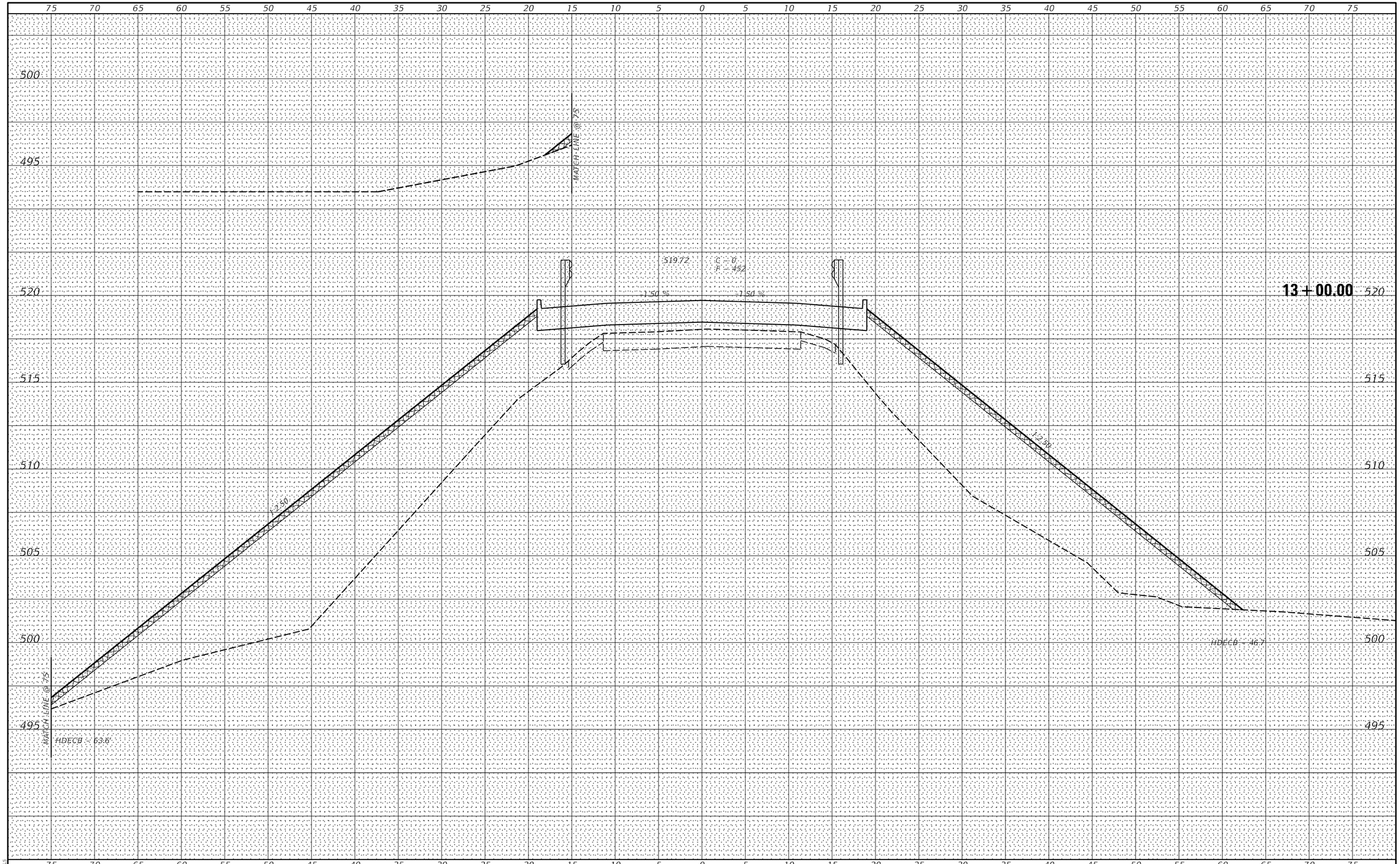
SCALE: | SHEET 6 OF 13 SHEETS | STA. 12+50.00 | TO STA. 12+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	77
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

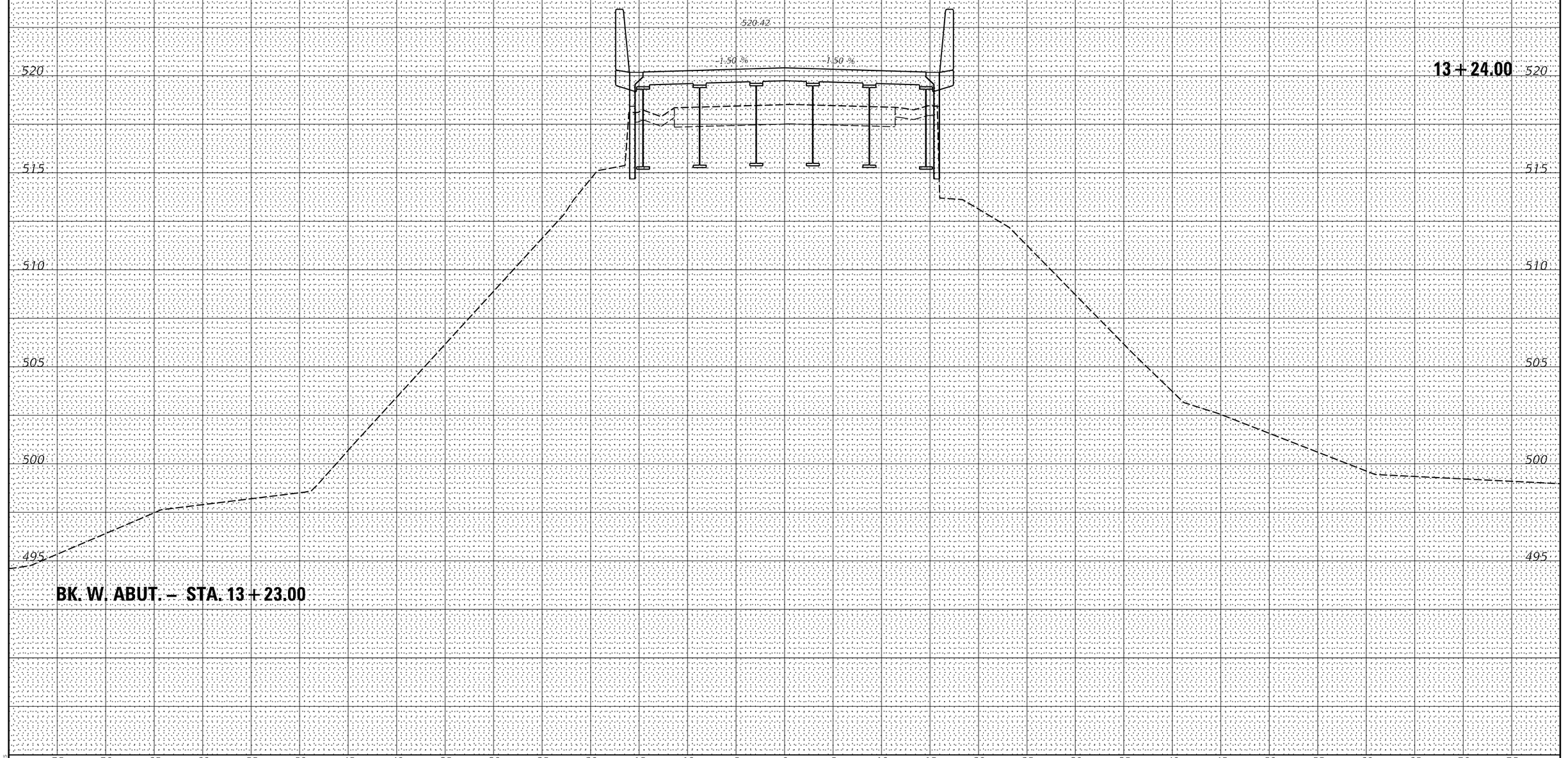
CROSS SECTIONS

SCALE: | SHEET 7 OF 13 SHEETS | STA. 13+00.00 | TO STA. 13+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	78
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

BK. W. ABUT. – STA. 13 + 23.00



BK. W. ABUT. – STA. 13 + 23.00

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

MODEL: $MODELNAME$
FILE NAME: $FILEL$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET 8 OF 13 SHEETS | STA. 13+24.00 | TO STA. 13+24.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	79
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

BY	DATE

MODEL: $MODELNAME$
FILE NAME: $FILE$

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

BK. E. ABUT. – STA. 15 + 76.00

15 + 76.00

522.89 C ~ 0
F ~ 371

520
515
510
505
500

1:2.50

1:2.50

HDECB ~ 55.6

HDECB ~ 39.0

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: _____ | SHEET 9 OF 13 SHEETS | STA. 15+76.00 | TO STA. 15+76.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	80
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

522.66 C - 0 F - 223

16 + 00.00

520 515 510 505

1:2.50

1:2.50

EX. ROW

EX. ROW

HDECB - 46.3

HDECB - 37.9

VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME = $USER$	DESIGNED - _____	REVISED - _____
		DRAWN - _____	REVISED - _____
	PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
	PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

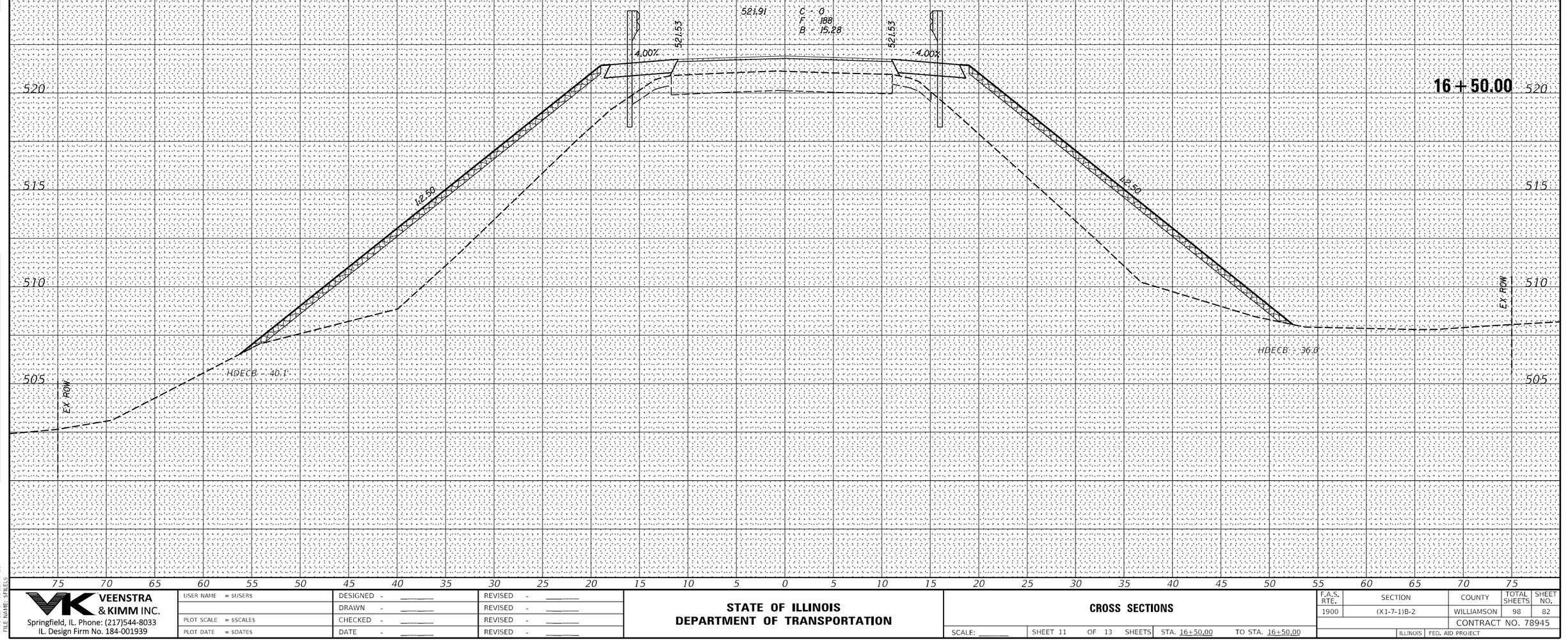
SCALE: _____ | SHEET 10 OF 13 SHEETS | STA. 16+00.00 | TO STA. 16+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	81
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

MODEL: $MODELNAME$
FILE NAME: $FILE$

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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



MODEL: SMODELNAMES
FILE NAME: $FILEL$

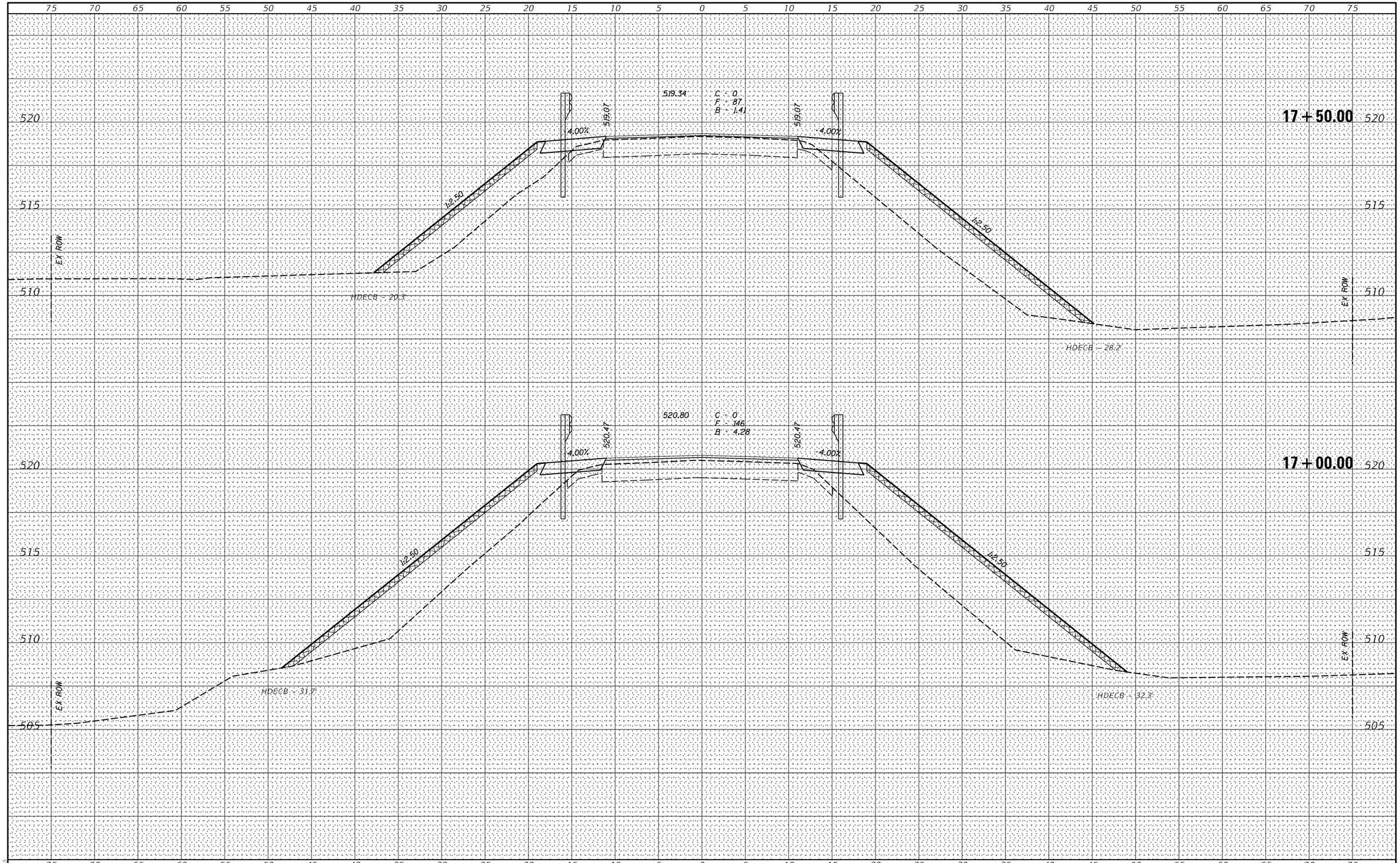
VEENSTRA & KIMM INC.	USER NAME = $USER$	DESIGNED -	REVISED -
Springfield, IL. Phone: (217)544-8033		DRAWN -	REVISED -
IL. Design Firm No. 184-001939	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: _____ | SHEET 11 OF 13 SHEETS | STA. 16+50.00 | TO STA. 16+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	82
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: _____ | SHEET 12 OF 13 SHEETS | STA. 17+00.00 | TO STA. 17+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	83
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

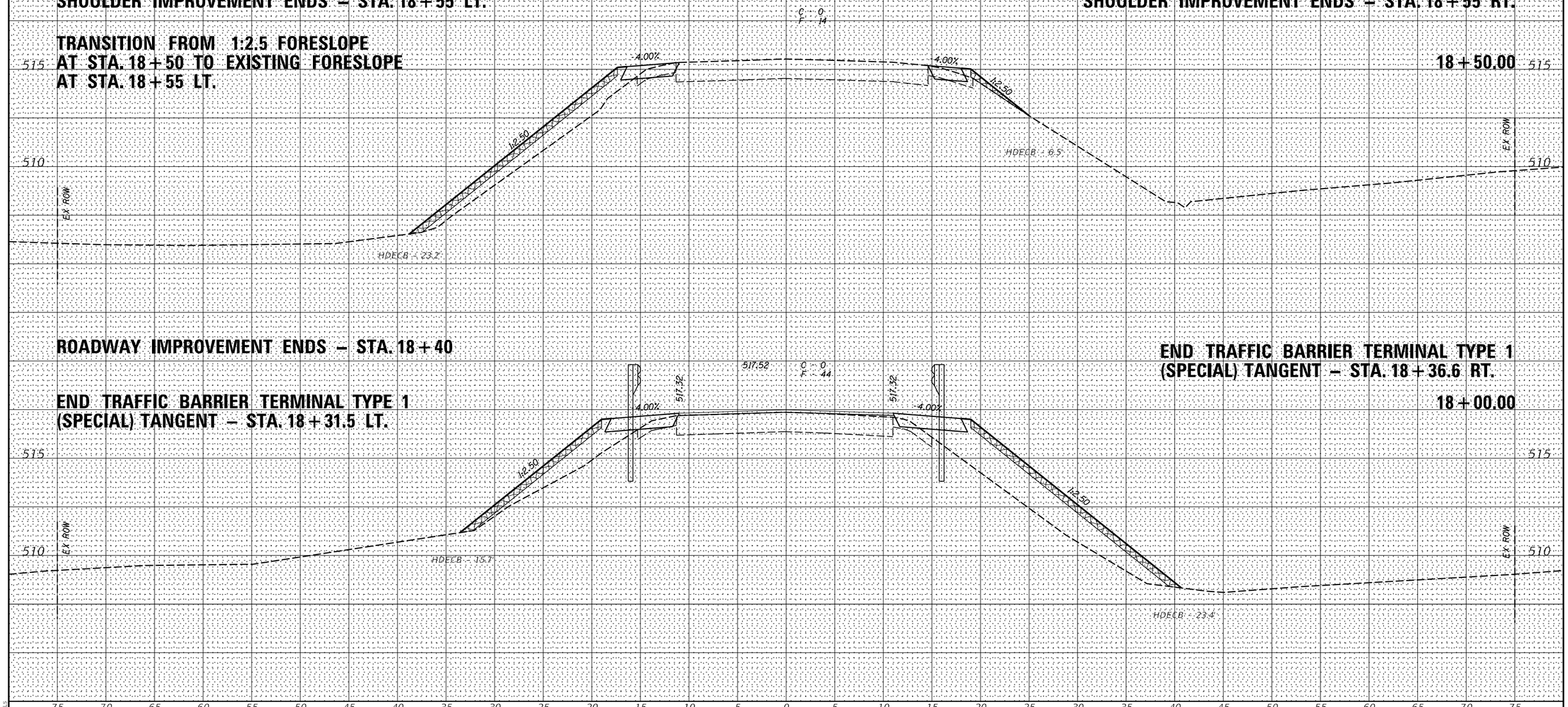
18 + 74.00

SHOULDER IMPROVEMENT ENDS – STA. 18 + 55 LT.

TRANSITION FROM 1:2.5 FORESLOPE AT STA. 18 + 50 TO EXISTING FORESLOPE AT STA. 18 + 55 LT.

SHOULDER IMPROVEMENT ENDS – STA. 18 + 55 RT.

18 + 50.00



ROADWAY IMPROVEMENT ENDS – STA. 18 + 40

END TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT – STA. 18 + 31.5 LT.

END TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT – STA. 18 + 36.6 RT.

18 + 00.00

VEENSTRA & KIMM INC. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

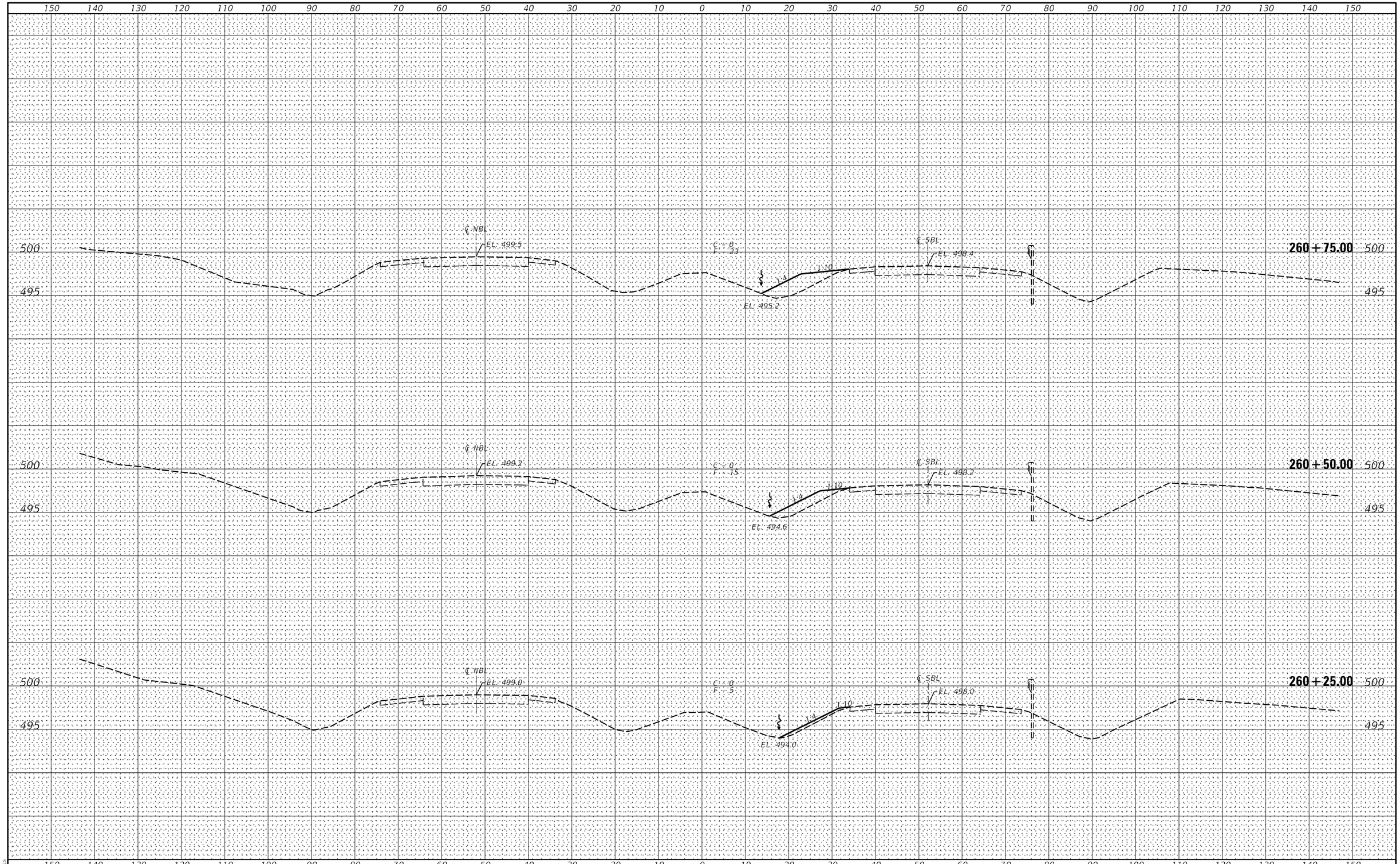
SCALE: _____ | SHEET 13 OF 13 SHEETS | STA. 18+00.00 | TO STA. 18+74.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	84
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

MODEL: $MODELNAME$
FILE NAME: $FILEL$



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

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		

MODEL: $MODELNAME$
FILE NAME: $FILEL$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (I-57)

SCALE: | SHEET 1 OF 8 SHEETS | STA. 260+25.00 | TO STA. 260+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	85
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

500

495

℄ NBL
EL. 500.0

C = 2
F = 25

2%
4%
-4%

EL. 496.7

1:10

℄ SBL
EL. 499.0

261 + 50.00

500

495

℄ NBL
EL. 499.8

C = 0
F = 28

2%
4%
-4%

EL. 496.4

1:10

℄ SBL
EL. 498.9

261 + 25.00

500

495

℄ NBL
EL. 499.7

C = 0
F = 27

2%
4%
-4%

EL. 495.8

1:10

℄ SBL
EL. 498.7

261 + 00.00

500

495

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

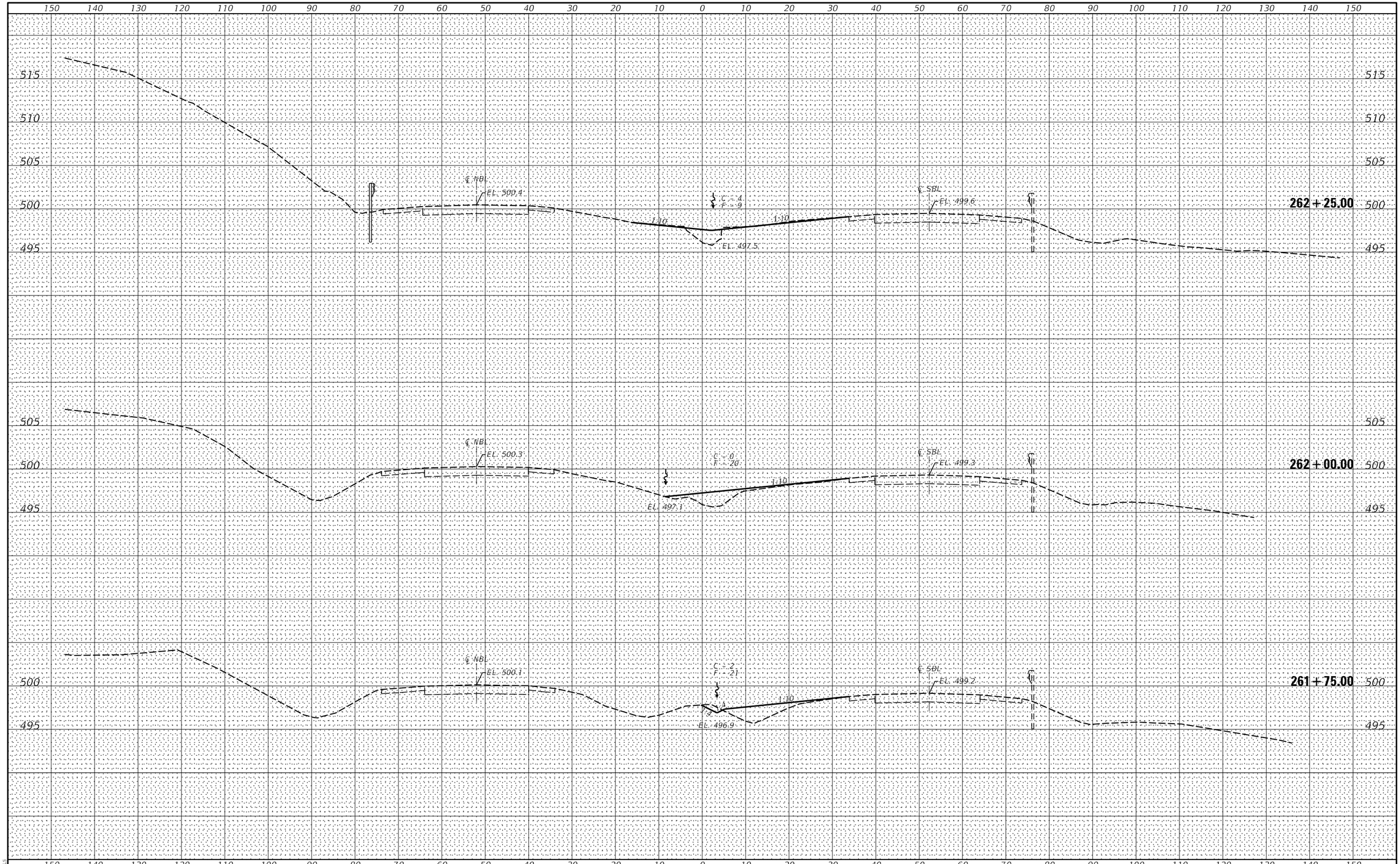
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (I-57)

SCALE: _____ SHEET 2 OF 8 SHEETS STA. 261+00.00 TO STA. 261+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	86
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK

NO.

ORIGINAL SURVEY

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK

NO.

MODEL: $MODELNAME$
FILE NAME: $FILEL$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

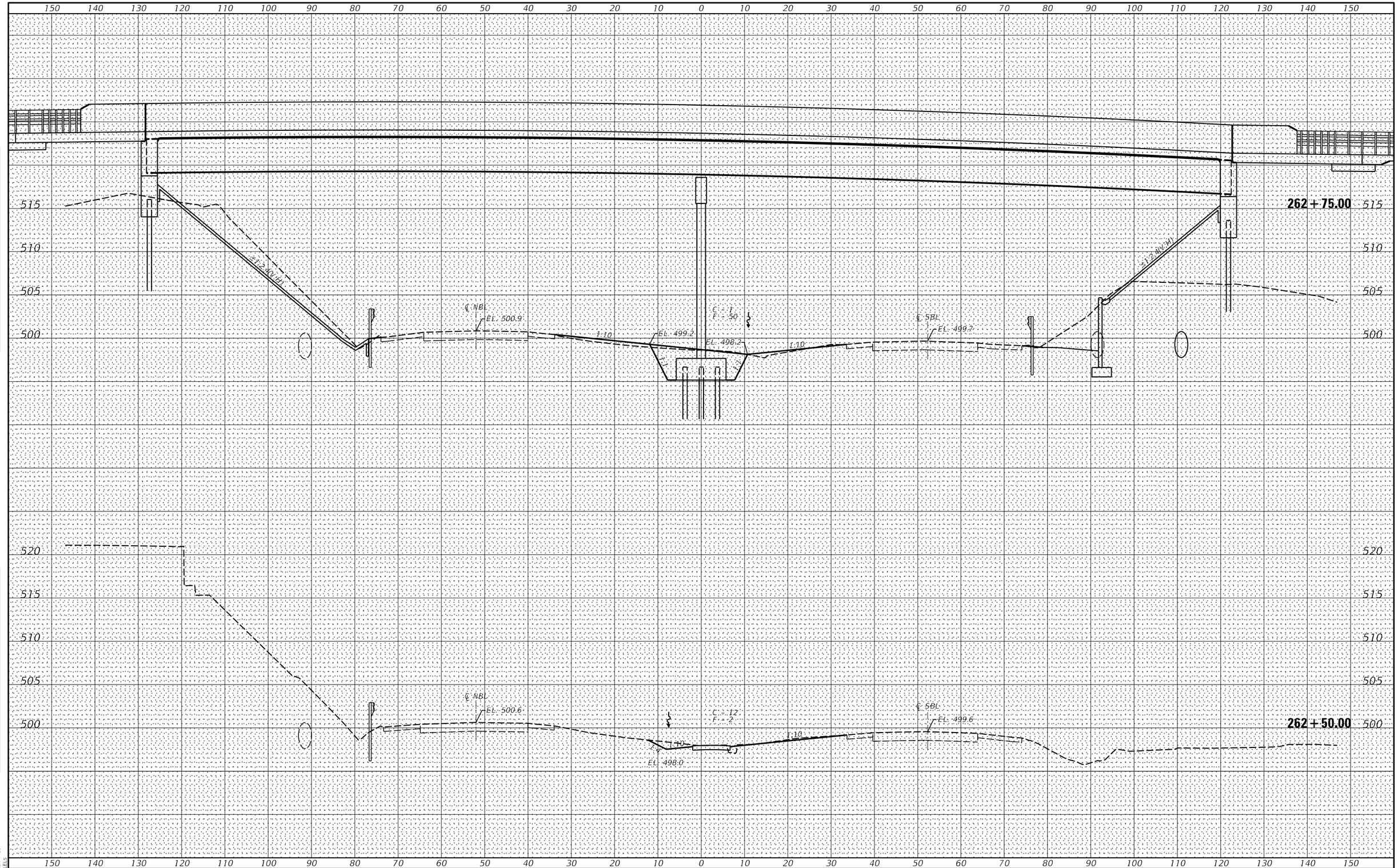
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (I-57)

SCALE: _____ SHEET 3 OF 8 SHEETS STA. 261+75.00 TO STA. 262+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	87
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

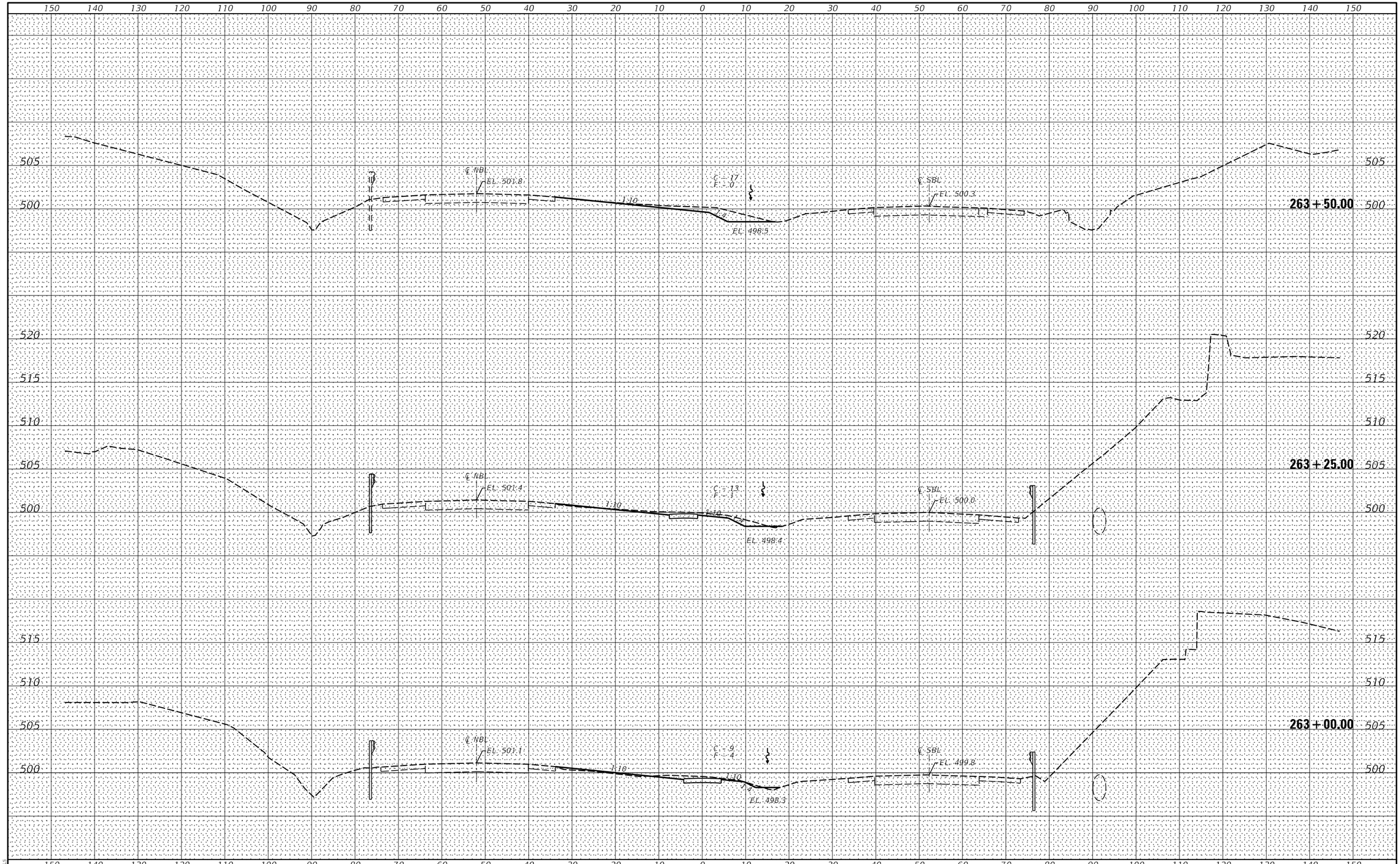
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (I-57)

SCALE: _____ | SHEET 4 OF 8 SHEETS | STA. 262+50.00 | TO STA. 262+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	88
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

MODEL: SMOOTH.NAMES
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

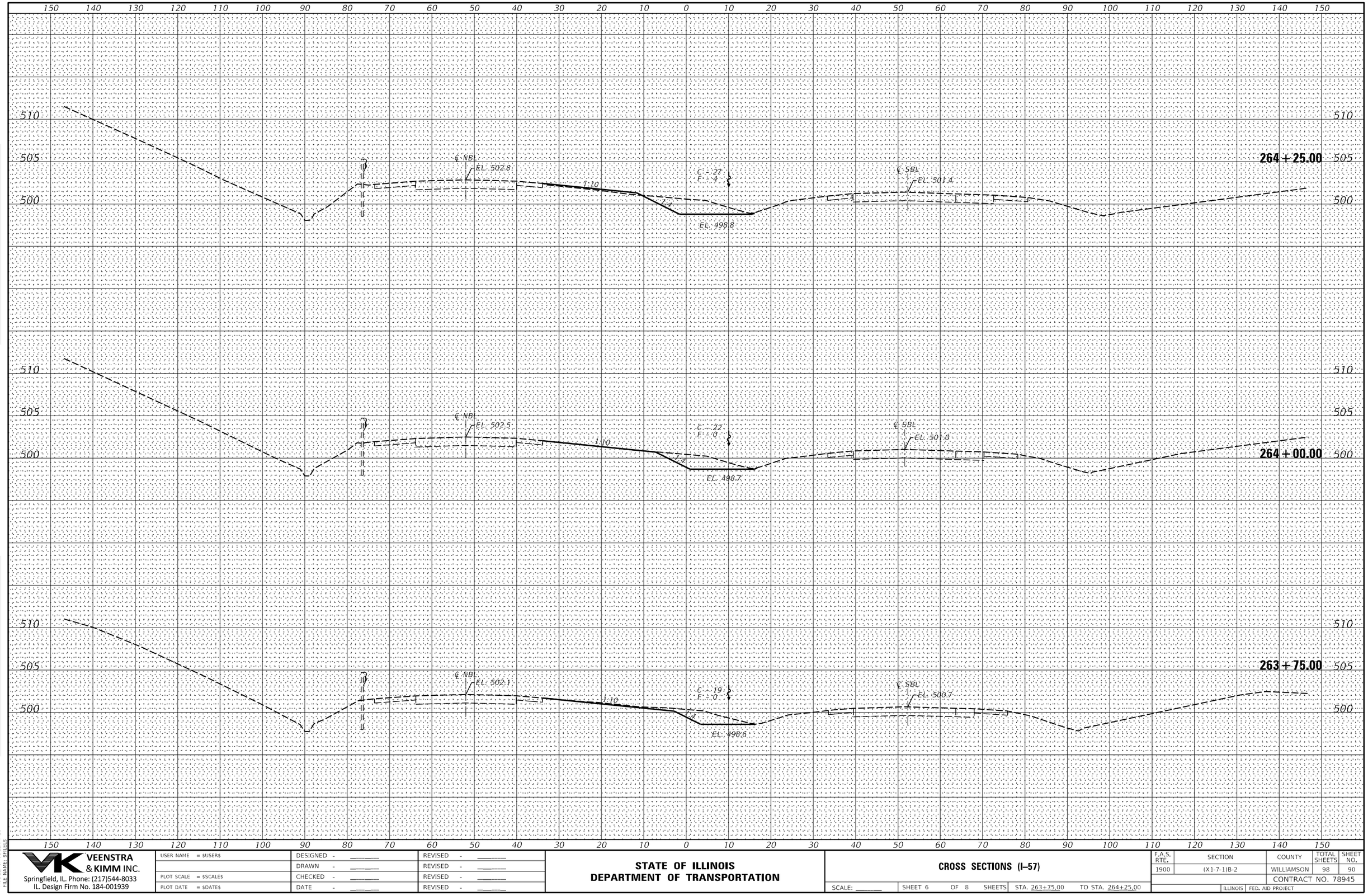
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (I-57)

SCALE: _____ | SHEET 5 OF 8 SHEETS | STA. 263+00.00 | TO STA. 263+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	89
		CONTRACT NO. 78945		
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY

NOTE BOOK	BY	DATE
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY

NOTE BOOK	BY	DATE
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

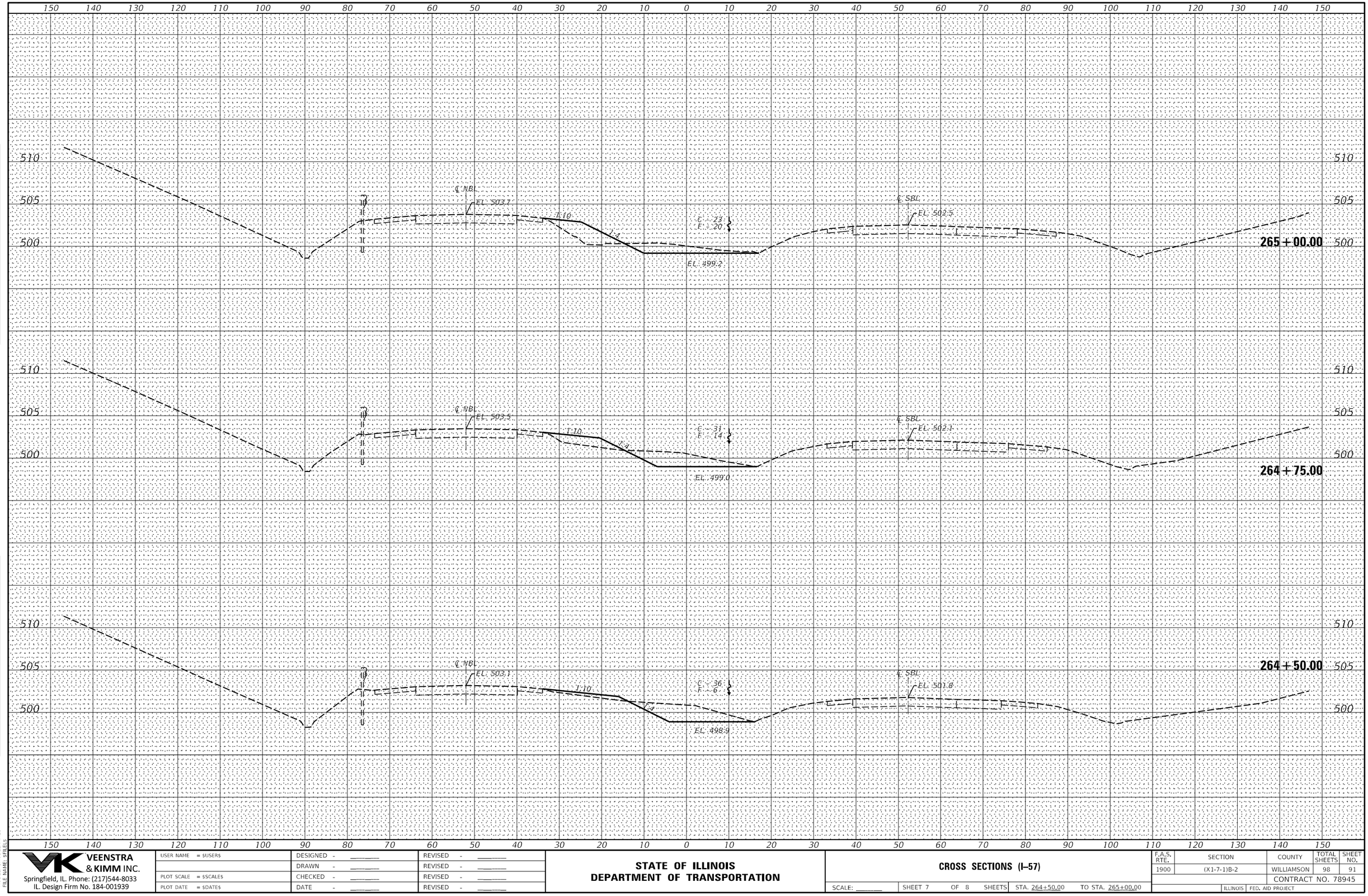
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (I-57)

SCALE: _____ | SHEET 6 OF 8 SHEETS | STA. 263+75.00 | TO STA. 264+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	90
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

NO.	NOTE BOOK	BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY

NO.	NOTE BOOK	BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

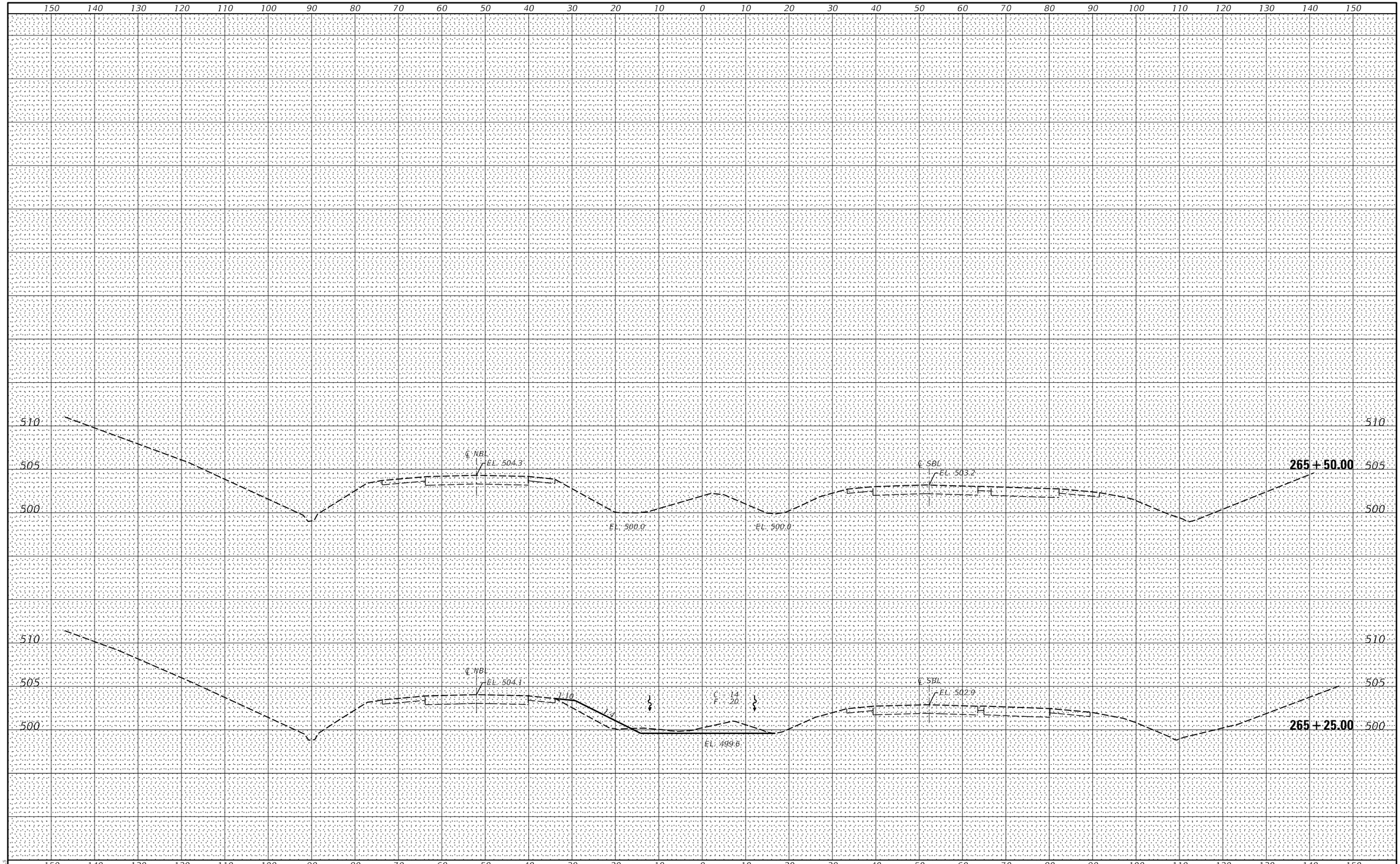
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (I-57)

SCALE: _____ | SHEET 7 OF 8 SHEETS | STA. 264+50.00 | TO STA. 265+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	91
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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

MODEL: $MODELNAME$
FILE NAME: $FILEL$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

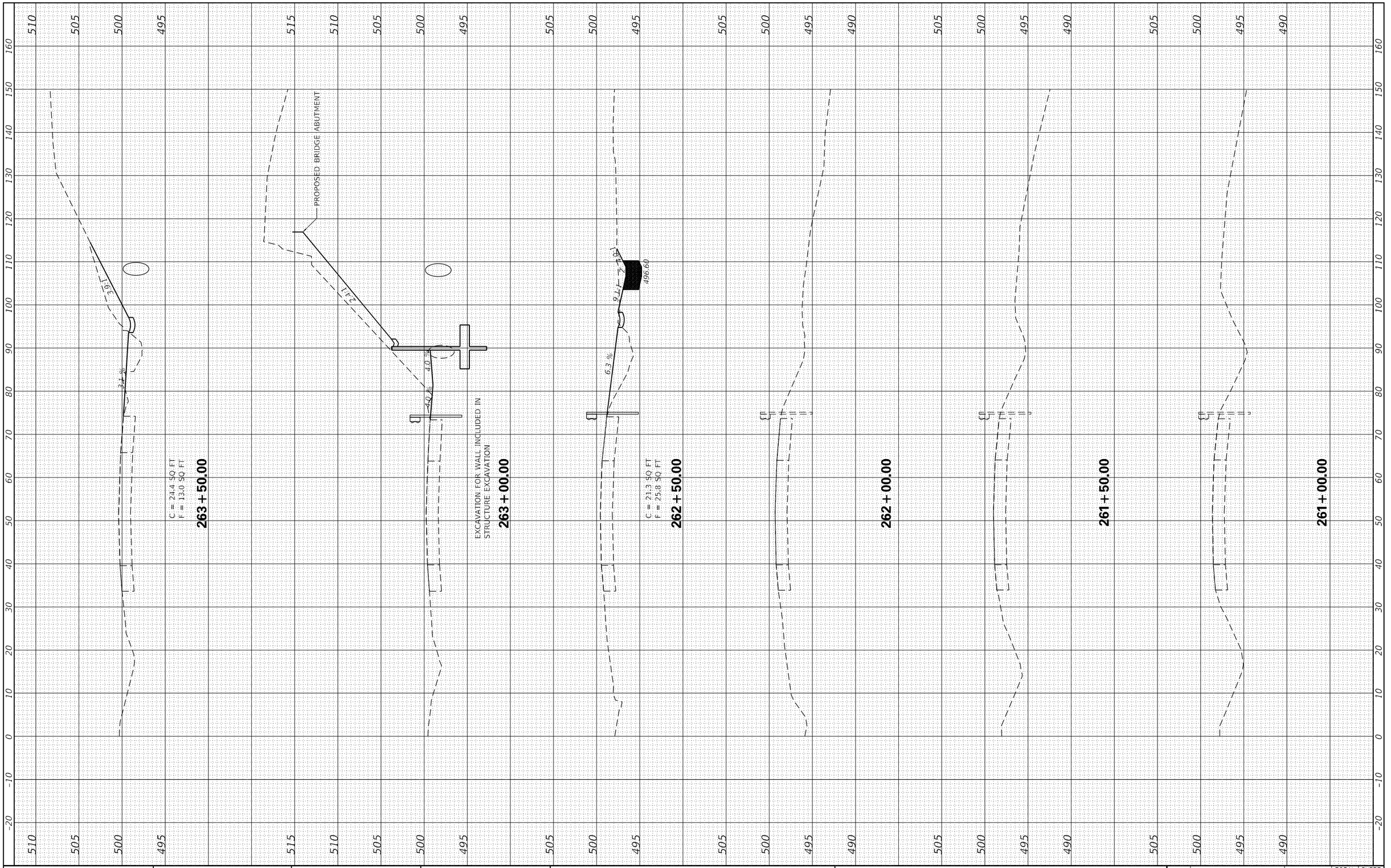
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (I–57)

SCALE: _____ | SHEET 8 OF 8 SHEETS | STA. 265+25.00 | TO STA. 265+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	92
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



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

FILE NAME = c:\pwworking\default\d0003574 - PW603-048-09 Veenstra Kimm\WO 1\28-Trans\CAD\Project Drawings\Drainage_XSEC.dgn	USER NAME = rhanfland	DESIGNED -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/14/2023	DATE -	REVISED -

CIVIL DESIGN, INC.
EFFINGHAM, IL
LICENSE #184.003222

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I57 SB CROSS SECTIONS

SCALE: | SHEET 1 OF 2 SHEETS | STA. 261+00.00 | TO STA. 263+50.00

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-7-1)B2	WILLIAMSON	98	93
		CONTRACT# 78945		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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

266+00.00

C = 51.3 SQ FT
F = 0.8 SQ FT

265+50.00

265+00.00

264+50.00

C = 96.2 SQ FT
F = 3.0 SQ FT

264+00.00

497.94
497.17
4.01
4.01
6.91
8.41
2
2

FILE NAME = P:\5XXX\94XX\9XXX\5574 - PTB 203-048 D9 Vaenstra Kimm\WD 1\28-Trans\CAD\Project Drawings\DRAWING.XSEC.dgn	USER NAME = rhanfland	DESIGNED -
		DRAWN -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -
	PLOT DATE = 2/15/2023	DATE -

CIVIL DESIGN, INC.
EFFINGHAM, IL
LICENSE #184.003222

REVISED -
REVISED -
REVISED -
REVISED -

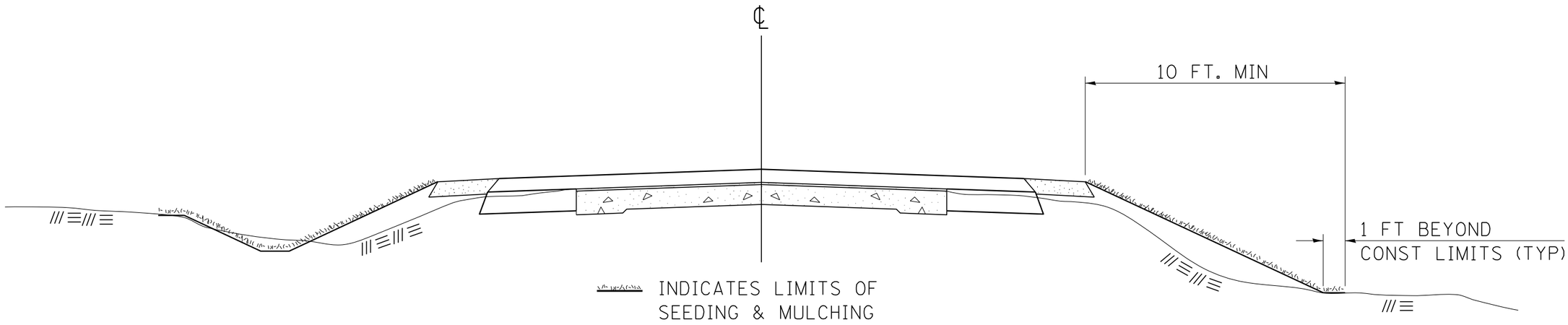
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I57 SB CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 264+00.00 | TO STA. 266+00.00

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-7-1)B2	WILLIAMSON	98	94
		CONTRACT# 78945		
	ILLINOIS FED. AID PROJECT			

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS.
LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08
REVISED	5-16-13

STD. 9-12

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

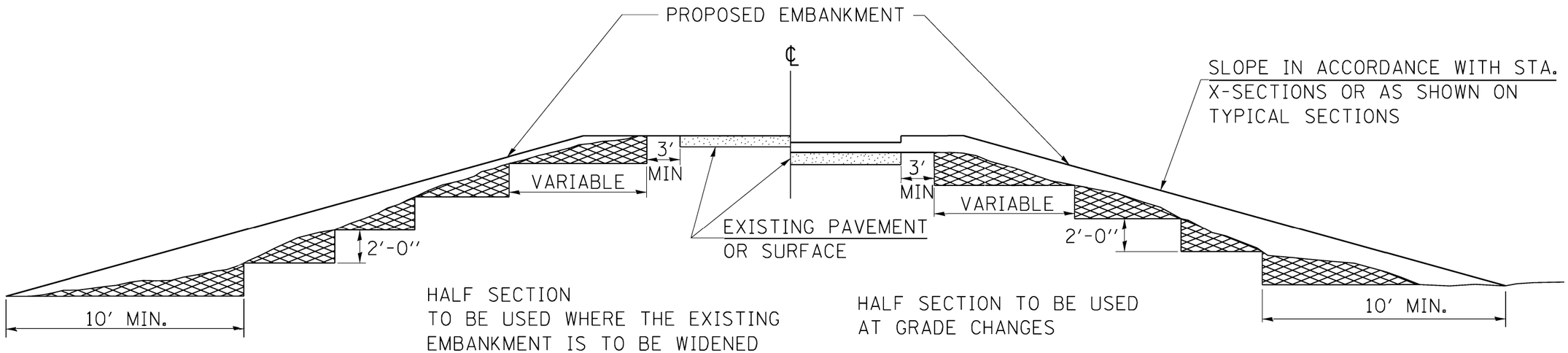
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: _____ | SHEET 2 OF 4 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	95
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



STEPS SHALL BE CUT IN THE EXISTING SLOPE IN ACCORDANCE WITH ART. 205.03 EXCEPT THAT THE REQUIREMENT THAT STEPS SHALL BE CUT INTO THE EXISTING SLOPE BEFORE THE CONSTRUCTION OF THE EXISTING EMBANKMENT IS STARTED SHALL NOT APPLY. MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATIONS. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08
REVIEWED	5-17-13

STD. 9-16

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

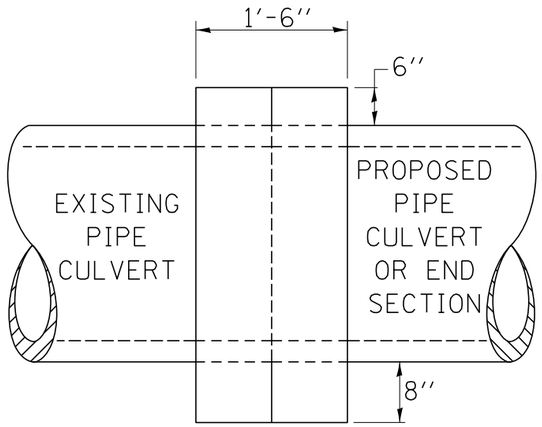
DISTRICT STANDARDS

SCALE: _____ SHEET 3 OF 4 SHEETS STA. _____ TO STA. _____

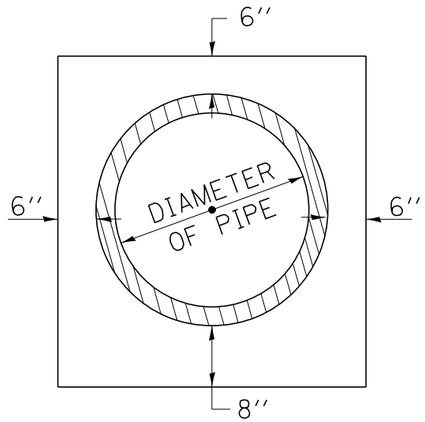
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	96
		CONTRACT NO. 78945		
	ILLINOIS	FED. AID PROJECT		

CONCRETE COLLAR

PIPE TO PIPE



SIDE VIEW



END VIEW

TABULATION

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12''	0.24
15''	0.29
18''	0.32
24''	0.44
30''	0.56
36''	0.66
42''	0.80
48''	0.93
54''	1.07
60''	1.22
72''	1.55

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR **CONCRETE COLLAR,** AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

REVISIONS

DRAWN	7-13-90
REVISED	8-22-94
REVISED	3-26-08
REVISED	5-17-13

STD. 9-79

MODEL: $MODELNAME$
FILE NAME: =$FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

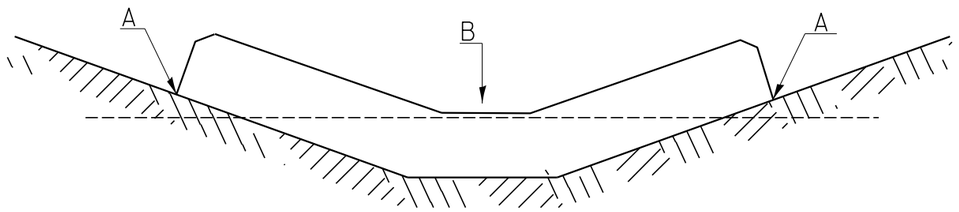
DISTRICT STANDARDS

SCALE: _____ | SHEET 1 OF 4 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	97
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			

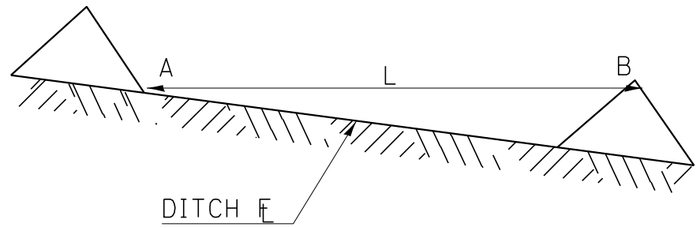
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

REVISIONS

DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10
REVIEWED	5-17-13

STD. 9-108

MODEL: $MODELNAME$
FILE NAME: $FILE$

VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = $USER$	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED - _____	REVISED - _____
PLOT DATE = $DATE$	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS

SCALE: _____ | SHEET 4 OF 4 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	98
		CONTRACT NO. 78945		
	ILLINOIS FED. AID PROJECT			