### 1-17-14 LETTING ITEM 037 COVER SHEET GENERAL NOTES & LOCATION SUMMARY OF QUANTITIES 8-9 TYPICAL SECTIONS 10-13 SCHEDULES 14-17 TIE POINTS 18 PLAN AND PROFILE SHEETS SN 050-0143 (EX.) & SN 050-2055 (PROPI PLAN AND PROFILE SHEETS SN 050-0156 (EX.) & SN 050-2056 (PROP) 20-22 PLAN AND PROFILE SHEETS SN 050-0072 (EX.) & SN 050-2057 (PROP) RIGHT-OF-WAY SHEETS 23-25 RIGHT-OF-WAY SHEETS 26-27 TRAFFIC CONTROL AND PROTECTION (SPECIAL) 28-33 STRUCTURE REPAIR PLANS SN 050-0143 (EX.) & SN 050-2055 (PROP) 34-40 STRUCTURE REPAIR PLANS SN 050-0156 (EX.) & SN 050-2056 (PROP) 41-46 STRUCTURE REPAIR PLANS SN 050-0072 (EX.) & SN 050-2057 (PROP)

CROSS SECTIONS SHEETS SN 050-0143 (EX.) & SN 050-2055 (PROP) 62-65 CROSS SECTIONS SHEETS SN 050-0156 (EX) & SN 050-2056 (PROP)

66-69 CROSS SECTIONS SHEETS SN 050-0072 (EX.) & SN 050-2057 (PROP)

EXISTING BRIDGE PLANS-FOR INFORMATION ONLY

54-57 DETAILS

000001-06

70/011

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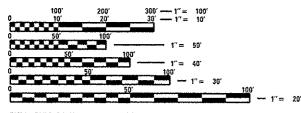
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### LIST OF ILLINOIS DOT HIGHWAY STANDARDS

001001-02 AREAS OF REINFORCEMENT BARS DECIMAL OF AN INCH AND OF A FOOT 001006 202001-01 EARTH MEDIAN DITCH CHECK TEMPORARY EROSION CONTROL SYSTEMS 280001-07 NAME PLATE FOR BRIDGES 515001-03 STEEL PLATE BEAM GUARDRAIL 630001-10 GUARDRAIL MOUNTED ON EXISTING CULVERTS 630101-09 630201-06 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL 630301-06 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT REFLECTOR MARKER AND MOUNTING DETAILS 635011-02 666001-01 RIGHT-OF-WAY MARKERS OFF-ROAD OPERATIONS 2L. 2W. MORE THAN 15' (4.5 m) AWAY 701001-02 701006-05 OFF-ROAD OPERATIONS 2L. 2W. 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 2 45 MPH LANE CLOSURE, 2L. 2W. SHORT TIME OPERATIONS 701301-04 701306-03 LANE CLOSURE. 2L, 2W. SLOW MOVING OPERATIONS DAY ONLY. FOR SPEEDS 2 45 MPH 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY 701901-03 TRAFFIC CONTROL DEVICES TYPICAL PAVEMENT MARKINGS 780001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS 781001-03

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS



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

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: CRAIG REED, P.E. PROJECT MANAGER: PAT BRABOY, P.E.

CONTRACT NO. 66B19

## STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

# **PROPOSED** HIGHWAY PLANS

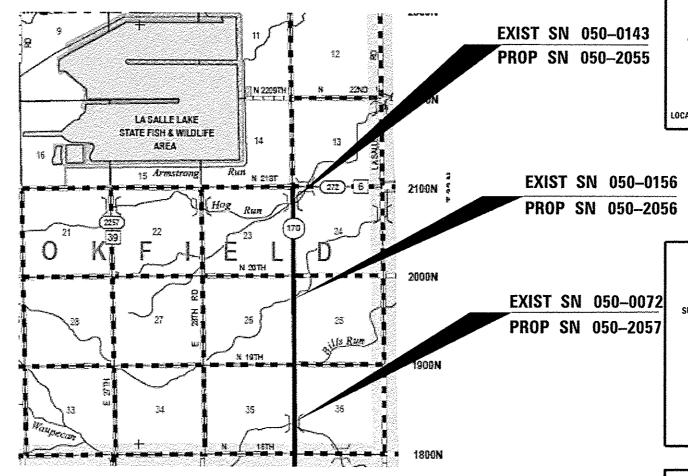
FAP ROUTE 786 (IL 170) **SECTION** (110)BR-1,2,3 PROJECT : ACF-0786(012) **REMOVE 3 BRIDGES AND REPLACE** WITH 3 BOX CULVERTS

C-93-020-13

LASALLE COUNTY

GROSS LENGTH = 13,850 FT. = 2.62 MILE

NET LENGTH = 1,925 FT. = 0.36 MILE

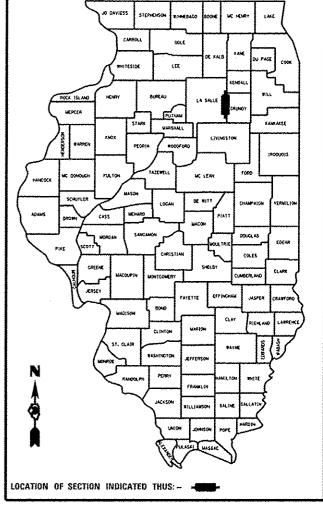


ALIMOIS CONTRACT NO. 66819

LASALLE 69 1

D-93-021-13

(110)88-1.2.3



**FUNCTIONAL CLASSIFICATION: RURAL MINOR ARTERIAL** 2012 ADT = 1880P.V. 65% S.U. 24% M.U. 11%

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS John D. Baranzelli P. action and envision omer Osman PE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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### GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL EXTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS, EXCEPTIONS WILL BE SHOWN ON THE PLANS.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE REMOVAL OF END SECTIONS SHALL BE INCLUDED IN THE COST OF PIPE CULVERT REMOVAL.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET. OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

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

SHORT TERM PAVEMENT MARKINGS SHALL BE USED FOR THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED. THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

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

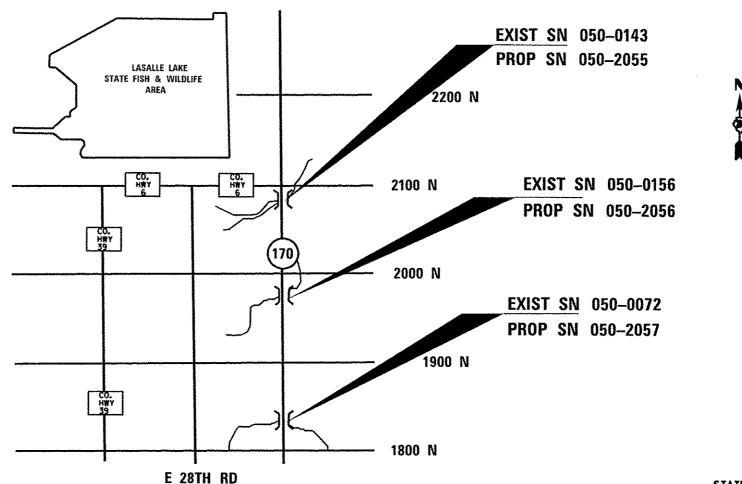
GRANULAR MATERIALS	2.05	TONS / CU YD
BIT MATERIALS (PRIME COAT)	0.375	GAL / SQ YD
ON AGGREGATE BASES		
BITUMINOUS MATERIALS	0.08	GAL / SQ YD
(PRIME COAT)		Avenue
FOG COAT	0.05	GAL / SO YD
(BETWEEN ADDITIONAL HMA LIFTS)		***************************************
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SO YD
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

ALL EXCAVATED MATERIAL MUST REMAIN ON THE JOBSITE, NO MATERIAL IS ALLOWED TO BE REMOVED OUTSIDE THE RIGHT-OF-WAY.

### COMMITMENTS:

- 1. STORM WATER POLLUTION PREVENTION PLAN
- 2. 404 PERMIT
- 3. ENVIRONMENT COORDINATION
- 4. PRE/POST INSPECTION OF DETOUR ROUTE
- 5. NON-MOWABLE SLOPES
- 6. R. E. TO NOTIFY EMERGENCY SERVICE TWO WEEKS PRIOR TO DETOUR.



SCALE!

LOCATION MAP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY:

DISTRICT STUDIES & PLANS ENGINEER

DATE:

8-5-13

EXAMINED BY:

TO STA.

DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL	NOTES	AND	LOCATION	MAP

SHEET NO. \_\_ OF \_\_\_ SHEETS STA.

SECTION COUNTY TOTAL SHEETS NO.
HIGHER-1.2.5 LASALLE 69 2
CONTRACT NO. 66B19

			and the state of t		801.FEC	). / 20%. STATE	
			herene		CONST	RÚCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL OUANTITY	ROADWAY 0004 RURAL	BOX CULVERT 0011 PROP. S. N. 050-2055	BOX CULVERT 0040 PROP. S. N. 050-2056	BOX CULVERT 0011 PROP. S. N. 050-2057
20200100	EARTH EXCAVATION	CU YD	704	704			
20400800	FURNISHED EXCAVATION	CU YD	1221	1221			
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1436		374	533	529
25000210	SEEDING, CLASS 2A	ACRE	2.4	2.4			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	219	219			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	219	219			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	219	219			
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	11761	11761			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	486	486			
28000305	TEMPORARY DITCH CHECKS	FOOT	360	360			
28000400	PERIMETER EROSION BARRIER	FOOT	443	443			
28100107	STONE RIPRAP, CLASS A4	SO YD	1152		267	321	564
28200200	FILTER FABRIC	SO YD	1132		267	321	564
35100300	AGGREGATE BASE COURSE. TYPE A 4"	SO YD	578	578			

FILE NAME \*

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#MODELNAME#

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	S	UMMARY	OF QU	ANTITIES			
SCALE:	SHEET	OF	SHEETS	STA.	_ 70	STA,	

F.A.P. SECTION COUNTY TOTAL SHEET NO. 786 (11088-1,2,3 LASALLE 69 3 CONTRACT NO. 66819

			,	80%. FED. / 20%. STATE					
						RUCTION CODE			
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<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		·		ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT		
CODE			TOTAL	0004	0011	0040	0011		
NO.	ITEM	UNIT	OUANTITY	RURAL	PROP. S. N. 050-2055	PROP. S. N. 050-2056	PROP. S. N. 050-2057		
35501343	HOT-MIX ASPHALT BASE COURSE, 15"	SO YD	578	578					
:					<del>-  </del>				
				: 	_				
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	77	77					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2	2					
	The state of the s	1011							
·		-							
40600525	LEVELING BINDER (HAND METHOD), N50	TON	3	3					
							· · · · · · · · · · · · · · · · · · ·		
				· · · · · · · · · · · · · · · · · · ·					
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	268	268					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	1560	1560	<u> </u>				
<u> </u>									
<del></del>		·							
40600990	TEMPORARY RAMP	SO YD	54	54					
********									
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	537	537					
44000100	PAVEMENT REMOVAL	SO YD	360	360					
		<del> </del>	· ·						
<del></del>						· · · · · · · · · · · · · · · · · · ·			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	32	32					
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	1213	1213	· · · · · · · · · · · · · · · · · · ·				
10203023	INC. MIN WOLLING SHOOFDERS O	30 10	1213	1213					
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1				
	· · · · · · · · · · · · · · · · · · ·			<del></del>					
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1			
	·	Annual Principles					· .		
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	· · · · · · · · · · · · · · · · · · ·			1		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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		50	WWAN	of qu	786	(110)88-1,2,3	LASALLE	69	4		
									CONTRACT	NO.	66819
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		-			80 /. FED./ CONST	20/ STATE RUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL OUANTITY	ROADWAY 0004 RURAL	BOX CULVERT 0011 PROP. S. N. 050-2055	BOX CULVERT 0040 PROP. S. N. 050-2056	BOX CULVERT 0011 PROP. S. N. 050-205
50105220	PIPE CULVERT REMOVAL	FOOT	48	48			
50200100	STRUCTURE EXCAVATION	CU YD	41.2				41.2
50300225	CONCRETE STRUCTURES	CU YD	14.6				14.6
50500505	STUD SHEAR CONNECTORS	EACH	54				54
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	53,970				53,970
51500100	NAME PLATES	EACH	3		1	1	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2		2		
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2			2	
54003000	CONCRETE BOX CULVERTS	CU YD	227				227
54010909	PRECAST CONCRETE BOX CULVERTS 9' X 9'	FOOT	114			114	
54011007	PRECAST CONCRETE BOX CULVERTS 10' X 7'	FOOT	96		96		
54213453	END SECTIONS 18"	EACH	4	4			
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	3. 5				3.5
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A. 6 FOOT POSTS	FOOT	680	680			
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: \_\_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA.\_\_\_\_

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	CODE		T:	TOTAL	ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT
	NO.	ITEM	UNIT	OUANTITY	RURAL	PROP. S. N. 050-2055		PROP. S. N. 050-205
X	63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	194	194	·		
				1				
X	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1 12				
~		THE TO SECURE TEACHER.	EACH	12	12			
			_				-	
	63200310	GUARDRAIL REMOVAL	FOOT	2451	2451			
			-					
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	15	15	· · · · · · · · · · · · · · · · · · ·		**************************************
	· · · · · · · · · · · · · · · · · · ·		·		······································			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	<del> </del>	-	<del></del>			
	01000100	ENGINEER STIELD OFFICE, TIPE A	CAL NO	6	6			
					·			·
	67100100	MOBILIZATION	L SUM	1 1	1			
						***************************************	·	
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1 1		<u> </u>		
			1			<u> </u>		
			1		· · · · · · · · · · · · · · · · · · ·			
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	578	578			
							:	
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3850	3850			
					<del></del>		····	
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	401	401	·		
		Tan Oran Parametri Mankino Line 0	1	481	481			
	<u> </u>		<b></b>					
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	192	192	To the second se		
×	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	7700	7700		· · · · · · · · · · · · · · · · · · ·	APPA, 11 (A. 11)
				<u> </u>	<del></del>			
*	78001170	DAIAT DAVENCHT HADRING			<del></del>			· · · · · · · · · · · · · · · · · · ·
٨	10001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	963	963		·····	
×	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	24	24			***************************************
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: \_\_\_\_\_ SHEET \_\_\_ OF \_\_\_ SHEETS STA.\_\_\_\_\_ TO STA.

RTE, SECTION COUNTY SHEETS NO.

786 (110)BR-1,2,5 LASALLE 69 6

CONTRACT NO. 66B19

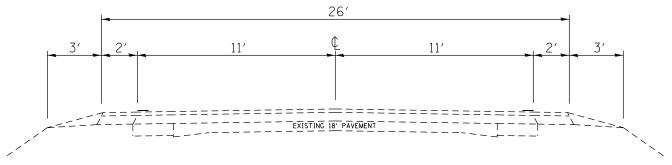
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CONSTRUCTION CODE

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				T	ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT
	CODE		1	TOTAL	0004_	0011	0040	0011
	NO.	ITEM	UNIT	OUANTITY	RURAL	PROP. S. N. 050-2055	PROP. S. N. 050-2056	PROP. S. N. 050-2057
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	24	24			
v								
X	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	12		<u> </u>	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	24	24			
	54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	102	102			
*	x0324455	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CUFT	537				537
							-	
	X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4313	4313			
	X7010216	TRAFFIC CONTROL AND PROTECTION. (SPECIAL)	L SUM	1	1			
					······································			
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42.5	42.5			
			·					
X	Z0007118	UNTREATED TIMBER LAGGING	SO FT	177	······································			177
v.								
X	Z0026402	FURNISHING SOLDIER PILES ( HP SECTION)	FOOT	171		<u> </u>		171

\* Specialty Hems

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### EXISTING ROADWAY TYPICAL

STA 311+00 TO STA 313+95

STA 314+17 TO STA 317+00

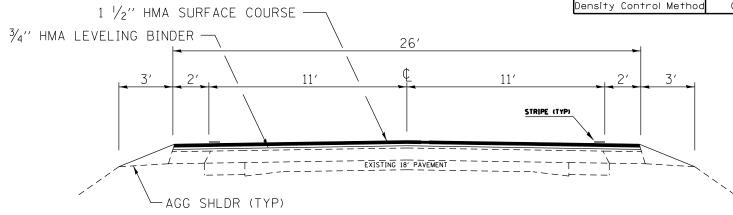
STA 366+50 TO STA 369+25

STA 369+59 TO STA 372+50

STA 442+25 TO STA 445+30

STA 445+75 TO STA 449+50

	HMA Surface	HMA Leveling Binder	Binder	HMA Shoulders
PG Grade	PG64-22	PG64-22	PG64-22	PG64-22
Design Air Voids	4.0% @ N50	4.0% @ N50	4.0% @ N50	2.0% @ N30
Mixture Composition	IL 9 <b>.</b> 5	IL 9.5 FG	IL 19 <b>.</b> 0	0ther
Friction Aggregate	Mixture C			
Density Control Method	Cores	Cores	Cores	Cores



## PROPOSED ROADWAY TYPICAL

STA 311+00 TO STA 313+95

STA 314+17 TO STA 317+00

STA 366+50 TO STA 369+25

STA 369+59 TO STA 372+50

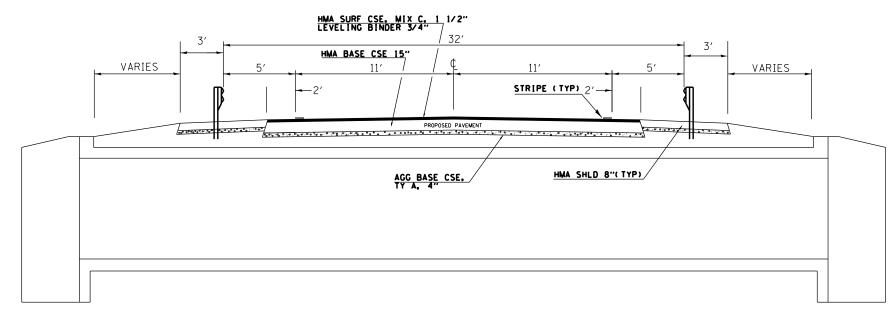
STA 442+25 TO STA 445+30

STA 445+75 TO STA 449+50

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STATE	OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA	TO STA		ILLINOIS FED. AI	D PROJECT		
								CONTRACT	NO.	66B19
		ROADW	AY IYP	ICALS		786	(110)BR-1,2,3	LASALLE	69	8
						F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.



## PROPOSED TYPICAL SECTION

STA 313+69 TO STA 314+31 (OVER PROP SN 050-2055)

STA 369+17 TO STA 369+79 (OVER PROP SN 050-2056)

STA 445+22 TO STA 445+98 (OVER PROP SN 050-2057)

FILE NAME =	USER NAME = \$USER\$	DESIGNED	REVISED	
\$FILEL\$		DRAWN	REVISED -	ST
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED -	DEPARTME
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE	REVISED	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CULVERT TYPICALS				786	(110)BR-1,2,3	LASALLE	69	9
						CONTRACT	NO. (	66B19
SHEET	OF SHEETS	STA	TO STA		ILLINOIS FED. AI	D PROJECT		

					MAINL	INE SCHEDU	-E				
STA. 1	TO STA.	LENGTH	AREA	HMA SURF CSE MIX C N50	LEVEL BINDER (MM)	LEVEL BINDER (HM)	MIX FOR JTS. CRACKS & FLGWYS	BIT. MAT'L (PR CT)	AGG SHLD Ty B	AGG SURF ACE COURSE	TEMP RAMP
LASALLE	E COUNTY	FT	SO YD	TONS	TONS	TONS	TONS	POUND	TONS	TONS	SO YD
SN 05	50-0143										
311+00	317+00	600	1960	164.6	82.3	1.0	0.6	1323.0	10.0		18.0
SUB1	TOTAL	600	1,960	165	82	1	0.6	1,323	10		18
		•	•				•				
SN 05	50-0156										
366+50	372+50	600	1960	164.6	82.3	1.0	0.6	1323.0	11.0		18.0
SUB'	TOTAL	600	1,960	165	82	1	1	1,323	11		18
SN 05	0-0072										
442+25	449+50	725	2470	207.5	103.7	1.2	0.7	1667.3	11.0		18.0
448+23	RT		122							10.3	
448+94	LT		102							8.6	
SUB'	TOTAL	725	2,470	207	104	1	1	1,667	11	19	18
GRAND	TOTALS			537	268	3	2	4313	32	19	54

STA. T	O STA.	LENGTH	AGGREGATE BASE COURSE TYPE A 4"	HMA BASE COURSE 15"	PAVEMENT REMOVAL	HMA SURF. REMOVAL BUTT JOINT	POROUS GRANULAR EMBANKMEN
LASALLE	COUNTY	FT	SO YD	SO YD	SO YD	SO YD	CU YD
SN 050	0-0143				"		
311+00	311+90	90				260	
313+69	314+31	62	179.0	179.0			374
313+69	313+89	20			57.7		
314+11	314+31	20			57.7		
316+10	317+00	90				260	
SUBT	OTAL		179	179	115	520	374
SN 050	D-0156						
366+50	367+40	90				260	
369+17	369+79	62	179.0	179.0			533 <b>.</b> 0
369+17	369+37	20			57.7		
371+60	372+50	90			57.7	260	
SUBT	OTAL		179	179	115	520	533
SN 050	)-0072						
442+25	443+15	90				260	
445+22	445+98	76	220.0	220.0			529.0
445+22	445+44	22			64.5		
445+76	445+98	22			64.5		
448+60	449+50	90				260	
SUBT	OTAL		220	220	129	520	529
GRAND	TOTALS		578	578	360	1560	1436

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -			F.A.P	SECTION	COUNTY	TOTAL S	HEET.
\$FILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS	SCHEDULES	786	(110)BR-1.2.3	LASALLE	69	10
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		100	110.0	CONTRACT	T NO. 6F	B19
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE	REVISED		SCALE: SHEET OF SHEETS STA TO STA	_	ILLINOIS FED. A			

DRAINA	AGE SCHEDULE		
LOCATION	PIPE CULVERT, CLASS D, TYPE 1, 18"	END SECTIONS 18"	PIPE CULVERT REMOVAL
STA TO STA	FOOT	EACH	FOOT
SN 050-0072			
STA 447+95.56, 33.13' RT - 448+50.54, 31.01 RT	55	2	24
STA 448+70.63, 36.63 LT 449+17.15, 30.03 LT	47	2	24
SN 050-0072 SUBTOTAL	102	4	48
TOTAL	102	4	48

	EARTH	EXCAVA	TION SCHEDUL	E	
(1)		(2)	(3)	(4)	(5)
		EARTH	EARTH EX	EMBANK	EARTHWORK BAL
STA TO STA		EX	ADJ FOR		WASTE(+) OR
			SHRINKAGE		SHORTAGE(-)
	LANE	CU YD	CU YD	CU YD	CU YD
SN 050-0143	NB/SB	233.7	175	331.1	-156
SN 050-0156	NB/SB	181.8	136	335	-199
SN 050-0072	NB/SB	288	216	1083	-867
GRAND TOTALS		704	528	1749	-1221

COLUMNS 2, AND 4-LOCATION AND QUANTITIES FROM CROSS SECTIONS
COLUMN 3- QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 25% (1- SHRINKAGE FACTOR)
COLUMN 5 EARTHWORK REQUIRED (PAY FOR AS FUNISHED EXCAVATION)

NOTE ALL MATERIAL EXCAVATED ON THIS PROJECT MUST BE USED AS FILL. NO MATERIAL WILL BE ALLOWED TO BE REMOVED FROM THE PROJECT

FURNISH AND ERECT ROW MARKERS		
AND ERECT ROW MARKERS  LOCATION  SN 050-0143  STA 311+00, 31.96' LT  STA 312+00, 50' LT  STA 316+00, 50' LT  STA 317+00, 29.97' LT  SN 050-0143 TOTAL  SN 050-0156  STA 367+50, 50' LT  STA 367+50, 50' LT  STA 371+50, 50' LT  STA 372+50, 39.86' LT  SN 050-0156 TOTAL  4  SN 050-0156 TOTAL  4  SN 050-0156 TOTAL  4  SN 050-0156 TOTAL  4  SN 050-0156 TOTAL	R.O.W. MARKERS	
LOCATION   EACH		
LOCATION SN 050-0143  STA 311+00, 31,96' LT  STA 312+00, 50' LT  STA 316+00, 50' LT  STA 317+00, 29,97' LT  SN 050-0143 TOTAL  SN 050-0156  STA 366+50, 39,72' LT  STA 371+50, 50' LT  STA 371+50, 50' LT  STA 371+50, 50' LT  STA 372+50, 39,86' LT  SN 050-0156 TOTAL  4  SN 050-0156 TOTAL  4  SN 050-0156 TOTAL  4  SN 050-0072  STA 442+25, 39,52' RT  STA 443+50, 41,03' LT  STA 444+50, 41,03' LT  STA 448+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' RT  STA 449+50, 39,19' RT  STA 449+50, 39,19' RT  STA 449+50, 39,19' RT  STA 449+50, 39,87' LT  SN 050-0072 TOTAL  7		
\$N 050-0143  STA 311+00, 31.96' LT  STA 312+00, 50' LT  STA 316+00, 50' LT  STA 317+00, 29.97' LT  \$N 050-0143 T0TAL  \$N 050-0156  STA 366+50, 39.72' LT  STA 371+50, 50' LT  STA 372+50, 39.86' LT  \$N 050-0156 T0TAL		ROW MARKERS
\$N 050-0143  STA 311+00, 31.96' LT  STA 312+00, 50' LT  STA 316+00, 50' LT  STA 317+00, 29.97' LT  \$N 050-0143 T0TAL  \$N 050-0156  STA 366+50, 39.72' LT  STA 371+50, 50' LT  STA 372+50, 39.86' LT  \$N 050-0156 T0TAL		
STA 311+00, 31.96′ LT  STA 312+00, 50′ LT  STA 316+00, 50′ LT  STA 317+00, 29.97′ LT  SN 050-0143 T0TAL  SN 050-0156  STA 366+50, 39.72′ LT  STA 371+50, 50′ LT  STA 371+50, 50′ LT  STA 372+50, 39.86′ LT  SN 050-0156 T0TAL  4  SN 050-0156 T0TAL  4  SN 050-0072  STA 442+25, 39.52′ RT  STA 443+25, 55′ RT  STA 444+50, 41.03′ LT  STA 444+50, 55′ LT  STA 448+50, 55′ LT  STA 448+50, 55′ LT  STA 448+50, 55′ LT  STA 449+50, 39.19′ RT  STA 449+50, 39.87′ LT	LOCATION	EACH
STA 312+00, 50' LT  STA 316+00, 50' LT  STA 317+00, 29.97' LT  SN 050-0143 TOTAL  SN 050-0156  STA 367+50, 50' LT  STA 371+50, 50' LT  STA 371+50, 50' LT  STA 372+50, 39.86' LT  SN 050-0156 TOTAL  SN 050-0072  STA 442+25, 39.52' RT  STA 443+25, 55' RT  STA 444+50, 41.03' LT  STA 444+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' RT  STA 448+50, 55' RT  STA 448+50, 55' RT  STA 449+50, 39.19' RT  STA 449+50, 39.19' RT  STA 449+50, 39.87' LT  SN 050-0072 TOTAL  7	SN 050-0143	
\$\frac{\text{STA}}{\text{316}+00}\$, \$\frac{\text{50}'}{\text{LT}}\$ \$\frac{\text{SN}}{\text{050}-0143}\$ \$\text{TOTAL}\$  \$\frac{\text{SN}}{\text{050}-0156}\$  \$\frac{\text{STA}}{\text{366}+50}\$, \$\frac{\text{39.72'}}{\text{LT}}\$ \$\frac{\text{1}}{\text{STA}}\$ \$\frac{\text{367}+50}{\text{50}'}\$, \$\frac{\text{50}'}{\text{LT}}\$ \$\frac{\text{1}}{\text{STA}}\$ \$\frac{\text{371}+50}{\text{50}'}\$, \$\frac{\text{50}'}{\text{LT}}\$ \$\frac{\text{SN}}{\text{050}-0156}\$ \$\frac{\text{TOTAL}}{\text{1}}\$  \$\frac{\text{SN}}{\text{050}-0072}\$  \$\frac{\text{STA}}{\text{442}+25}\$, \$\frac{\text{39.52'}}{\text{RT}}\$ \$\frac{\text{1}}{\text{1}}\$ \$\frac{\text{STA}}{\text{444}+50}\$, \$\frac{\text{41.03'}}{\text{LT}}\$ \$\frac{\text{1}}{\text{1}}\$ \$\frac{\text{STA}}{\text{448}+50}\$, \$\frac{\text{55'}}{\text{RT}}\$ \$\frac{\text{1}}{\text{1}}\$ \$\frac{\text{STA}}{\text{448}+50}\$, \$\frac{\text{55'}}{\text{ST}}\$ \$\frac{\text{1}}{\text{1}}\$ \$\frac{\text{STA}}{\text{448}+50}\$, \$\frac{\text{55'}}{\text{RT}}\$ \$\frac{\text{1}}{\text{1}}\$ \$\frac{\text{STA}}{\text{448}+50}\$, \$\frac{\text{55'}}{\text{RT}}\$ \$\frac{\text{1}}{\text{1}}\$ \$\frac{\text{STA}}{\text{449}+50}\$, \$\frac{\text{39.19'}}{\text{RT}}\$ \$\frac{\text{1}}{\text{STA}}\$ \$\frac{\text{449}+50}{\text{39.87'}}\$ \$\text{LT}\$ \$\frac{\text{SN}}{\text{050}-0072}\$ \$\text{TOTAL}\$ \$\frac{\text{7}}{\text{NO50}-0072}\$ \$\text{TOTAL}\$	STA 311+00, 31,96' LT	
\$\text{STA 317+00, 29.97' LT}\$  \$\text{SN 050-0143 TOTAL}\$  \$\text{SN 050-0156}\$  \$\text{STA 366+50, 39.72' LT}\$  \$\text{STA 367+50, 50' LT}\$  \$\text{STA 371+50, 50' LT}\$  \$\text{STA 371+50, 50' LT}\$  \$\text{STA 372+50, 39.86' LT}\$  \$\text{SN 050-0156 TOTAL}\$  4  \$\text{SN 050-0072}\$  \$\text{STA 442+25, 39.52' RT}\$  \$\text{STA 444+50, 41.03' LT}\$  \$\text{STA 444+50, 41.03' LT}\$  \$\text{STA 444+50, 55' LT}\$  \$\text{STA 448+50, 55' LT}\$  \$\text{STA 448+50, 55' LT}\$  \$\text{STA 449+50, 39.19' RT}\$  \$\text{STA 449+50, 39.87' LT}\$  \$\text{SN 050-0072 TOTAL}\$  \$\text{SN 050-0072 TOTAL}\$  7	STA 312+00, 50' LT	
\$\ \text{SN 050-0143 T0TAL} \\ 4 \\ \\ \text{SN 050-0156} \\ \text{STA 366+50, 39.72' LT} \\ \text{1} \\ \text{STA 367+50, 50' LT} \\ \text{1} \\ \text{STA 371+50, 50' LT} \\ \text{STA 372+50, 39.86' LT} \\ \text{1} \\ \text{SN 050-0156 T0TAL} \\ \text{4} \\ \text{SN 050-0072} \\ \text{STA 442+25, 39.52' RT} \\ \text{1} \\ \text{STA 443+25, 55' RT} \\ \text{1} \\ \text{STA 4445+50, 41.03' LT} \\ \text{STA 448+50, 55' LT} \\ \text{STA 448+50, 55' LT} \\ \text{STA 448+50, 55' RT} \\ \text{STA 448+50, 39.19' RT} \\ \text{STA 449+50, 39.19' RT} \\ \text{STA 449+50, 39.87' LT} \\ \text{SN 050-0072 T0TAL} \\ \text{7} \end{array}		
\$\ \text{SN 050-0156} \\ \text{STA 366+50, 39.72' LT} \\ \text{STA 367+50, 50' LT} \\ \text{STA 371+50, 50' LT} \\ \text{STA 371+50, 50' LT} \\ \text{STA 372+50, 39.86' LT} \\ \text{SN 050-0156 T0TAL} \\ \text{SN 050-0072} \\ \text{STA 442+25, 39.52' RT} \\ \text{STA 443+25, 55' RT} \\ \text{STA 443+25, 55' RT} \\ \text{STA 444+50, 41.03' LT} \\ \text{STA 444+50, 55' LT} \\ \text{STA 448+50, 55' LT} \\ \text{STA 448+50, 55' RT} \\ \text{STA 449+50, 39.19' RT} \\ \text{STA 449+50, 39.19' RT} \\ \text{STA 449+50, 39.87' LT} \\ \text{SN 050-0072 T0TAL} \\ \text{7}	STA 317+00, 29.97′ LT	1
\$\ \text{SN 050-0156} \\ \text{STA 366+50, 39.72' LT} \\ \text{STA 367+50, 50' LT} \\ \text{STA 371+50, 50' LT} \\ \text{STA 371+50, 50' LT} \\ \text{STA 372+50, 39.86' LT} \\ \text{SN 050-0156 T0TAL} \\ \text{SN 050-0072} \\ \text{STA 442+25, 39.52' RT} \\ \text{STA 443+25, 55' RT} \\ \text{STA 443+25, 55' RT} \\ \text{STA 444+50, 41.03' LT} \\ \text{STA 444+50, 55' LT} \\ \text{STA 448+50, 55' LT} \\ \text{STA 448+50, 55' RT} \\ \text{STA 449+50, 39.19' RT} \\ \text{STA 449+50, 39.19' RT} \\ \text{STA 449+50, 39.87' LT} \\ \text{SN 050-0072 T0TAL} \\ \text{7}		
STA 366+50, 39.72' LT  STA 367+50, 50' LT  STA 371+50, 50' LT  STA 372+50, 39.86' LT  SN 050-0156 TOTAL  SN 050-0072  STA 442+25, 39.52' RT  STA 443+25, 55' RT  STA 444+50, 41.03' LT  STA 444+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' RT  STA 448+50, 55' RT  STA 449+50, 39.19' RT  STA 449+50, 39.19' RT  STA 449+50, 39.87' LT  SN 050-0072 TOTAL  7	SN 050-0143 TOTAL	4
STA 366+50, 39.72' LT  STA 367+50, 50' LT  STA 371+50, 50' LT  STA 372+50, 39.86' LT  SN 050-0156 TOTAL  SN 050-0072  STA 442+25, 39.52' RT  STA 443+25, 55' RT  STA 444+50, 41.03' LT  STA 444+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' RT  STA 448+50, 55' RT  STA 449+50, 39.19' RT  STA 449+50, 39.19' RT  STA 449+50, 39.87' LT  SN 050-0072 TOTAL  7		
STA 367+50, 50' LT  STA 371+50, 50' LT  STA 372+50, 39.86' LT  SN 050-0156 TOTAL  4  SN 050-0072  STA 442+25, 39.52' RT  STA 443+25, 55' RT  STA 444+50, 41.03' LT  STA 4445+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' RT  STA 448+50, 55' RT  STA 448+50, 55' LT  STA 449+50, 39.19' RT  STA 449+50, 39.19' RT  STA 449+50, 39.87' LT  SN 050-0072 TOTAL  7		
STA 371+50, 50' LT  STA 372+50, 39.86' LT  SN 050-0156 TOTAL  SN 050-0072  STA 442+25, 39.52' RT  STA 443+25, 55' RT  STA 444+50, 41.03' LT  STA 445+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' RT  STA 448+50, 55' RT  STA 449+50, 39.19' RT  STA 449+50, 39.19' RT  STA 449+50, 39.87' LT  SN 050-0072 TOTAL  7	,	
STA 372+50, 39.86' LT 1  SN 050-0156 TOTAL 4  SN 050-0072  STA 442+25, 39.52' RT 1  STA 443+25, 55' RT 1  STA 444+50, 41.03' LT 1  STA 445+50, 55' LT 1  STA 448+50, 55' LT 1  STA 448+50, 55' RT 1  STA 449+50, 39.19' RT 1  STA 449+50, 39.87' LT  SN 050-0072 TOTAL 7		
\$\ \text{SN 050-0156 T0TAL} \\ 4 \\ \text{SN 050-0072} \\ \text{STA 442+25, 39.52' RT} \\ \text{STA 443+25, 55' RT} \\ \text{STA 444+50, 41.03' LT} \\ \text{STA 444+50, 55' LT} \\ \text{STA 448+50, 55' LT} \\ \text{STA 448+50, 55' RT} \\ \text{STA 448+50, 55' RT} \\ \text{STA 449+50, 39.19' RT} \\ \text{STA 449+50, 39.87' LT} \\ \text{SN 050-0072 T0TAL} \\ 7 \\ align*		
\$N 050-0072 \$TA 442+25, 39.52' RT	STA 372+50, 39.86′ LT	1
\$N 050-0072 \$TA 442+25, 39.52' RT		
STA 442+25, 39.52' RT  STA 443+25, 55' RT  STA 444+50, 41.03' LT  STA 445+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' RT  STA 449+50, 39.19' RT  STA 449+50, 39.87' LT  SN 050-0072 TOTAL  7	SN 050-0156 TOTAL	4
STA 442+25, 39.52' RT  STA 443+25, 55' RT  STA 444+50, 41.03' LT  STA 445+50, 55' LT  STA 448+50, 55' LT  STA 448+50, 55' RT  STA 449+50, 39.19' RT  STA 449+50, 39.87' LT  SN 050-0072 TOTAL  7		
STA 444+50, 41.03' LT 1 STA 445+50, 55' LT 1 STA 448+50, 55' LT 1 STA 448+50, 55' RT 1 STA 449+50, 39.19' RT 1 STA 449+50, 39.87' LT  SN 050-0072 TOTAL 7	SN 050-0072	
STA 444+50, 41.03' LT 1 STA 445+50, 55' LT 1 STA 448+50, 55' LT 1 STA 448+50, 55' RT 1 STA 449+50, 39.19' RT 1 STA 449+50, 39.87' LT  SN 050-0072 TOTAL 7	STA 442+25, 39.52′ RT	
STA 444+50, 41.03' LT 1 STA 445+50, 55' LT 1 STA 448+50, 55' LT 1 STA 448+50, 55' RT 1 STA 449+50, 39.19' RT 1 STA 449+50, 39.87' LT  SN 050-0072 TOTAL 7	STA 443+25, 55′ RT	
STA 445+50, 55' LT 1 STA 448+50, 55' LT 1 STA 448+50, 55' RT 1 STA 449+50, 39.19' RT 1 STA 449+50, 39.87' LT  SN 050-0072 TOTAL 7	STA 444+50, 41.03′ LT	
STA 448+50, 55' LT 1 STA 448+50, 55' RT 1 STA 449+50, 39.19' RT 1 STA 449+50, 39.87' LT  SN 050-0072 TOTAL 7	STA 445+50, 55′LT	
STA 449+50, 39,19' RT 1 STA 449+50, 39,87' LT  SN 050-0072 TOTAL 7	STA 448+50, 55′LT	
STA 449+50, 39,19' RT 1 STA 449+50, 39,87' LT  SN 050-0072 TOTAL 7	STA 448+50, 55′RT	
SN 050-0072 TOTAL 7	STA 449+50, 39.19′ RT	1
	STA 449+50, 39.87' LT	
GRAND TOTAL 15	SN 050-0072 TOTAL	7
GRAND TOTAL 15		
	GRAND TOTAL	15

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -			F.A.P PTE	SECTION	COUNTY TO	TOTAL SHEET
\$FILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS	SCHEDULES	786 (	110)BR-1-2-3	LASALLE	69 11
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		100	1101011 11010	CONTRACT N	NO. 66B19
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA TO STA.		ILLINOIS FED. AID		

				PAV	EMENT N	MARKING	SCHEDUL	.E		_
			PAINT	PAINT	TEMP	TEMP	SHORT-	WORK	RAISED	REMOVAL RAISED
LOCATION			PVT MK	PVT MK	MARK	MARK	TERM	ZONE PAVT	REFLECTIVE	REFLECTIVE
		DISTANCE	4"	6"	4"	6"	MARK	MARK REM	PVMT MARKERS	PVT MARKERS
STA		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SO. FT.	EACH	EACH
050-0143										
311+00 TO 3	317+00	600	1200	150	1200	150	180	60	8	8
(2) DOUBLE APPLICATIO	N		1200	150						
050-0143 SUBTOTAL			2400	300	1200	150	180	60	8	8
050-0156										
366+50 TO 3	372+50	600	1200	150	1200	150	180	60	8	8
(2) DOUBLE APPLICATIO	N		1200	150						
050-0156 SUBTOTAL			2400	300	1200	150	180	60	8	8
050-0072										
	449+50	725	1450	181	1450	181	218	72	9	9
(2) DOUBLE APPLICATIO	N		1450	181					_	
050-0072 SUBTOTAL			2900	363	1450	181	218	72	9	9
GRAND TOTA	L	1925	7700	963	3850	481	578	192	24	24

<sup>(1)</sup> R.E. TO VERIFY NO PASSING ZONES PRIOR TO MILLING OPERATION (2) PAINT MUST BE DONE IN A DOUBLE APPLICATION

				SEEDING SCHE	EDULE				
LOCATION		SEEDING	NITROGEN	POTASSIUM	PHOSPHOROUS	HEAVY DUTY	TEMP	PERIMETER	TEMP
		CLASS 2A	FERTILIZER	FERTILIZER	FERTILIZER	EROSION	DITCH	EROSION	EROSION
		CLASS ZA							
	LANE		NUTRIENT	NUTRIENT	NUTRIENT	CONTROL	CHECKS	BARRIER*	CONTROL
						BLANKET			SEEDING
STA TO STA		ACRE	POUND	POUND	POUND	S.Y.	FOOT	FOOT	POUND
S.N. 050-0143									
STA 311+00 TO STA 314+00 LT	NB	0.20	18	18	18	968	30	30	40
STA 311+00 TO STA 314+00 RT	SB	0.20	18	18	18	968	30	30	40
STA 314+00 TO STA 317+00 LT	NB	0-20	18	18	18	968	30	30	40
STA 314+00 TO STA 317+00 RT	SB	0.20	18	18	18	968	30	30	40
S.N. 050-0143 SUBTOTAL		0.80	72	72	72	3872	120	120	160
S.N. 050-0156									
STA 366+50 TO STA 369+50 LT	NB	0.18	16	16	16	871	30	30	36
STA 366+50 TO STA 369+50 RT	SB	0.12	11	11	11	581	30	28	24
STA 369+50 TO STA 372+50 LT	NB	0.20	18	18	18	968	30	30	40
STA 369+50 TO STA 372+50 rT	SB	0.19	17	17	17	920	30	28	38
S.N. 050-0156 SUBTOTAL		0.69	62	62	62	3340	120	116	138
S.N. 050-0072									
STA 442+25 TO STA 445+50 LT	NB	0.17	15	15	15	823	30	51	34
STA 442+25 TO STA 445+50 RT	SB	0.22	20	20	20	1065	30	53	44
STA 445+50 TO STA 449+50 LT	NB	0.24	22	22	22	1162	30	54	48
STA 445+50 TO STA 449+50 RT	SB	0.31	28	28	28	1500	30	49	62
S.N. 050-0072 SUBTOTAL		0.94	85	85	85	4550	120	207	188
GRAND TOTAL	Ī	2.4	219	219	219	11761	360	443	486

<sup>\*</sup>PLACE ALONG CREEK, SOUTH SIDE AND NORTH SIDE

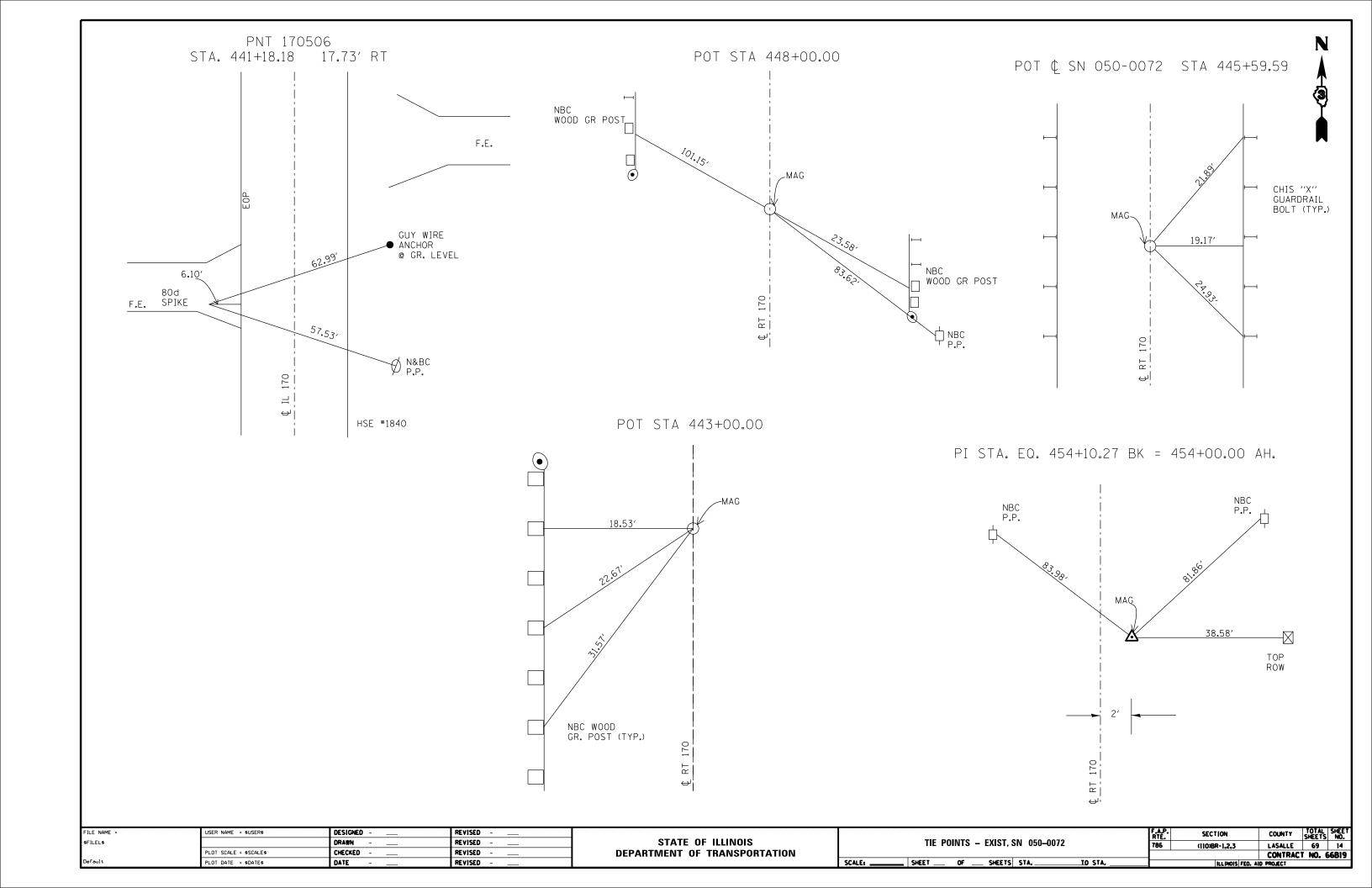
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\$FILEL\$			DRAWN	REVISED	STATE OF ILLINOIS	SCHEDULES	786 (110)BR-1-2-3	LASALLE 69 12
		PLOT SCALE = \$SCALE\$	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION		100	CONTRACT NO. 66B19
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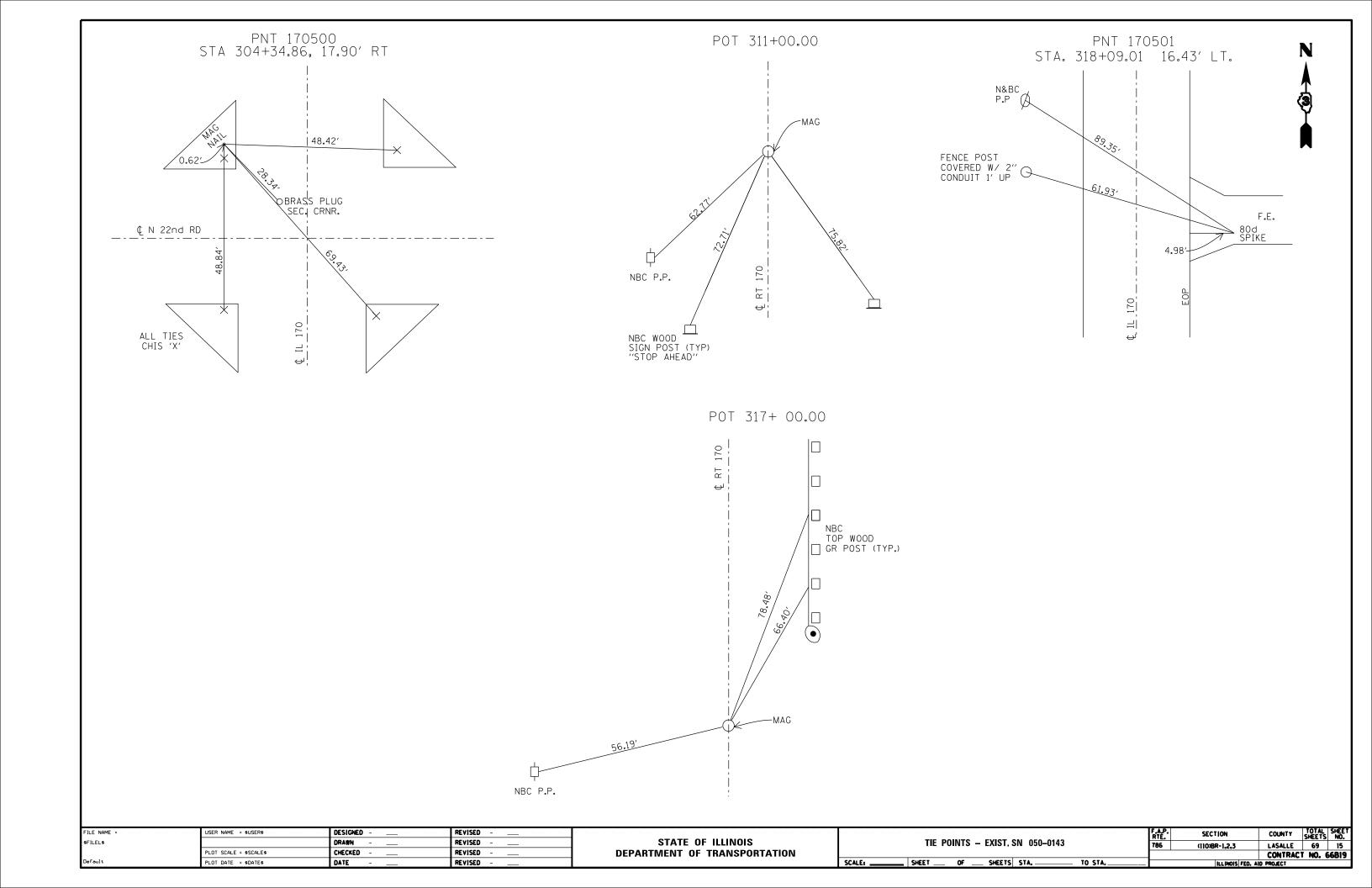
			GUARDI	RAIL				
		TERM	TBT TY 1	SPBGR TY A	SPBGR	HMA	GR	GUARDRAII
		MRK, DA	SP (FLARED)	6' POSTS (FOOT)	ATTACHED TO	SHLD	REMOVAL	MARKERS
	NBL/SBL				STRUCTURE	8"		TYPE A
CTA TO CTA	10011000	E A	-			- CO WO	5007	
STA TO STA SN = 050-0143		EA	EA	FT	FT	SO YD	FOOT	EA
EAST SIDE OF STRUCTURE	NBI	2				194	405	4
TA 313+14 TO STA 313+64	NBI		1			13.	100	4
TA 313+64 TO STA 313+89	NBI		<u> </u>	25				
TA 313+89 TO STA 314+11	NBI				28			
TA 314+11 TO STA 314+93	NBI			82				
TA 314+93 TO STA 315+43	NBI		1	92				
WEST SIDE OF STRUCTURE	SBI	2	<del>†                                      </del>			194	404	4
TA 312+71 TO STA 313+21	SBI		1			13 '	101	4
TA 313+21 TO STA 313+89	SBI		<del>†                                      </del>	68	+			1
TA 313+89 TO STA 314+11	SBI		+		28			1
TA 314+11 TO STA 314+48	SBI			37	20			1
TA 314+48 TO STA 314+98	SBI		1 1	31				
SN # 050-0143 SUBTOTAL	SBI	4	4	212	56	388	809	8
3N 030 0143 30B101AE	+	7	†	212	30	300	003	
SN = 050-0156								
EAST SIDE OF STRUCTURE	NBI	2				194	405	4
TA 368+49 TO STA 368+99	NBI		1			13.	100	4
TA 368+99 TO STA 369+30	NBI		†	31				
TA 369+30 TO STA 369+52	NBI			31	28			
TA 369+52 TO STA 370+27	NBI			60	20			
TA 370+27 TO STA 370+77	NBI		1	90				
WEST SIDE OF STRUCTURE	SBI	2	<u> </u>			197	405	4
TA 368+19 TO STA 368+69	SBI		1			13.	103	4
TA 368+69 TO STA 369+44	SBI		<del>                                     </del>	75				
TA 369+44 TO STA 369+66	SBI			13	28			
TA 369+66 TO STA 369+97	SBI			31	20			
TA 369+97 TO STA 370+47	SBI		1	51				
SN # 050-0156 SUBTOTAL	SDI	4	4	197	56	391	810	8
314 030 0130 30B101AE		!	<u>'</u>	151	30	331	010	Ŭ
SN = 050-0072								
EAST SIDE OF STRUCTURE	NBI	2				214	416	4
TA 444+70 TO STA 445+20	NBI	-	1					1
TA 445+20 TO STA 445+58	NBI			38				
TA 445+58 TO STA 445+99	NBI				41			ĺ
TA 445+99 TO STA 447+04	NBI			105				
TA 447+04 TO STA 447+54	NBI		1					
WEST SIDE OF STRUCTURE	SBI	2				220	416	4
TA 443+66 TO STA 444+16	SBI		1					1
TA 444+16 TO STA 445+23	SBI			107				
TA 444+23 TO STA 445+64	SBI			1	41			ĺ
TA 445+64 TO STA 445+85	SBI			21				ĺ
TA 445+85 TO STA 446+35	SBI		1					İ
SN # 050-0072 SUBTOTAL	.3131	4	4	271	82	434	832	8
						-		
RAND TOTAL		12	12	680	194	1213	2451	24

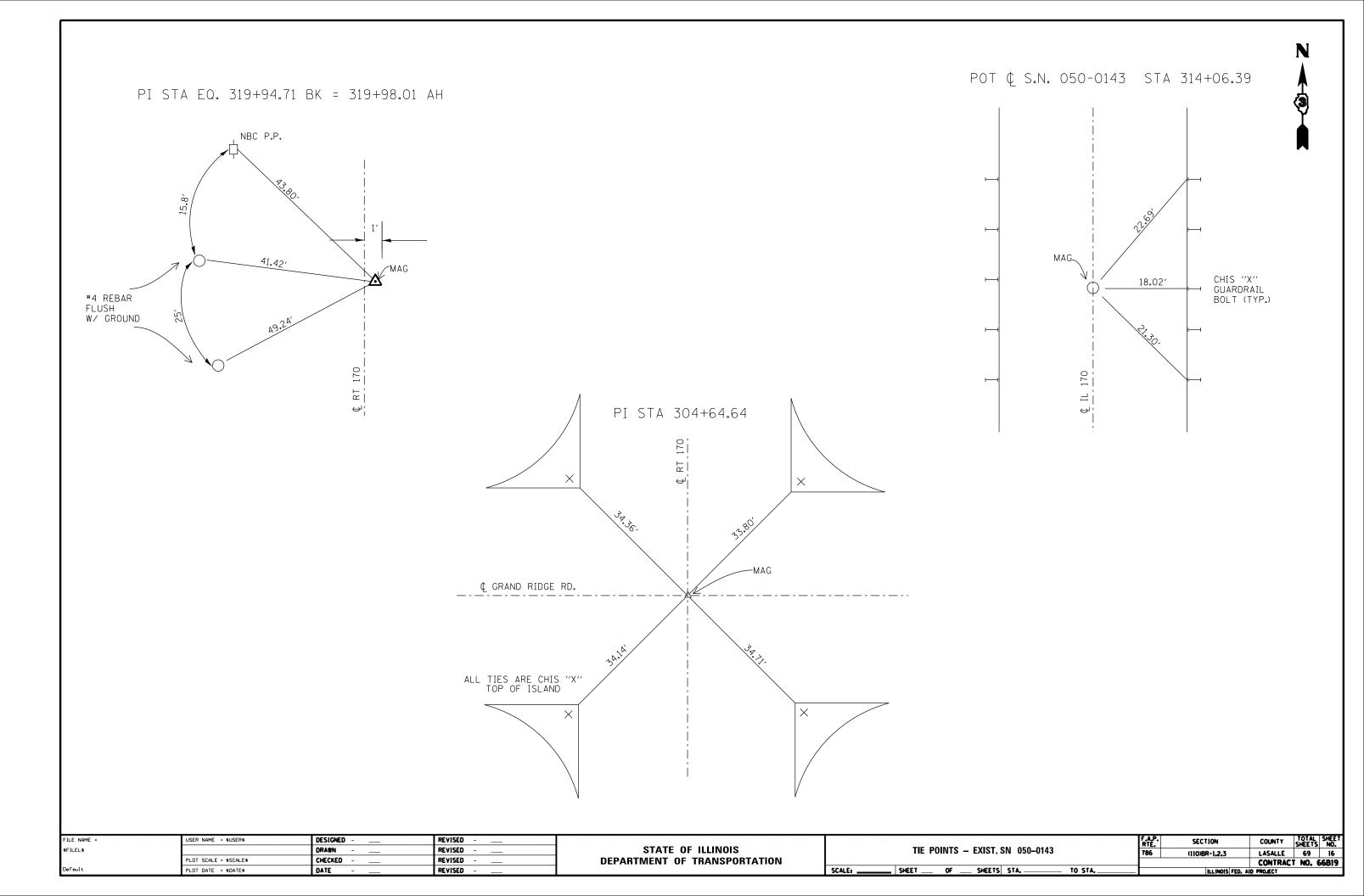
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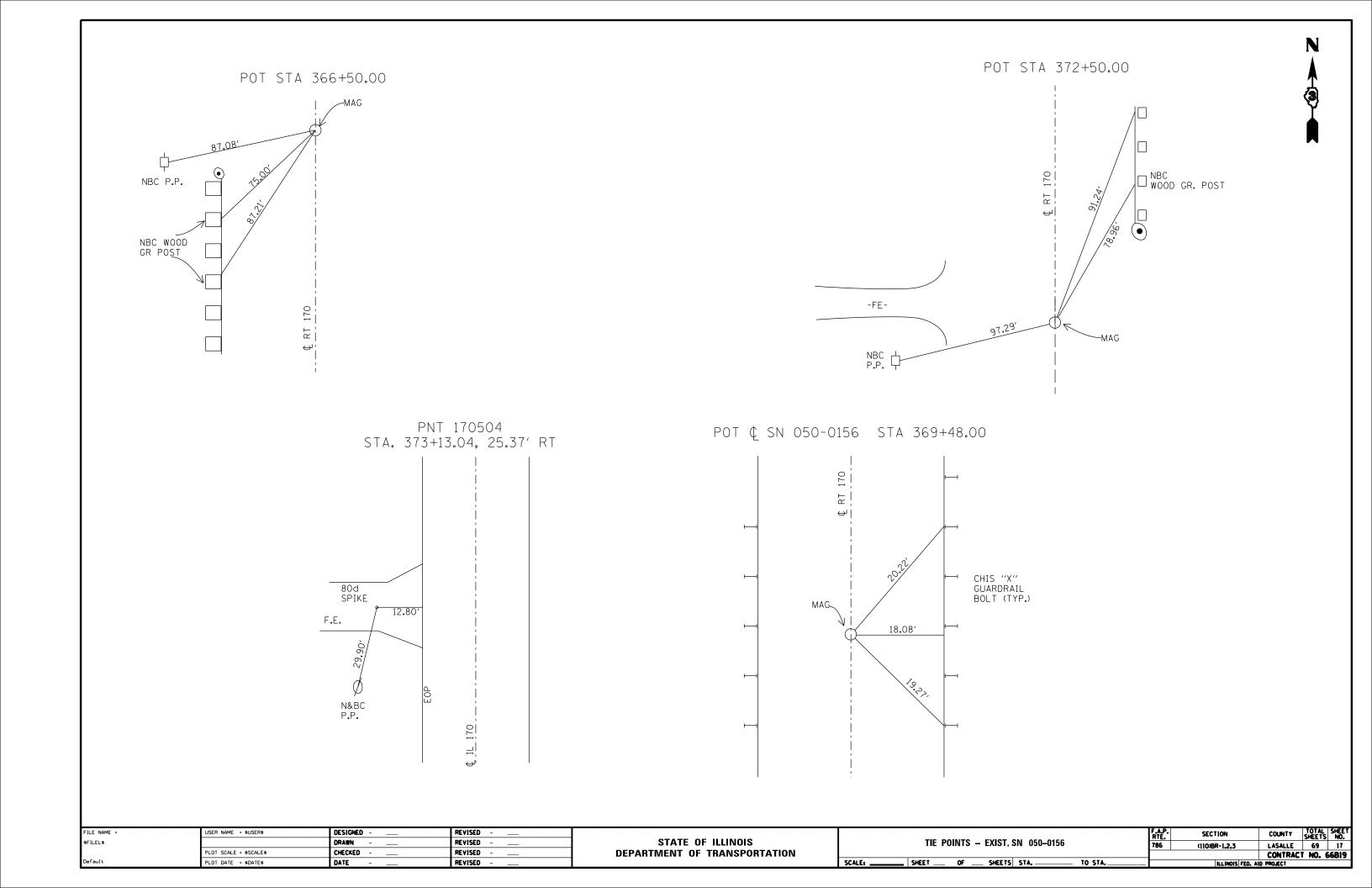
STATE (	OF ILLINOIS
DEPARTMENT O	TRANSPORTATION

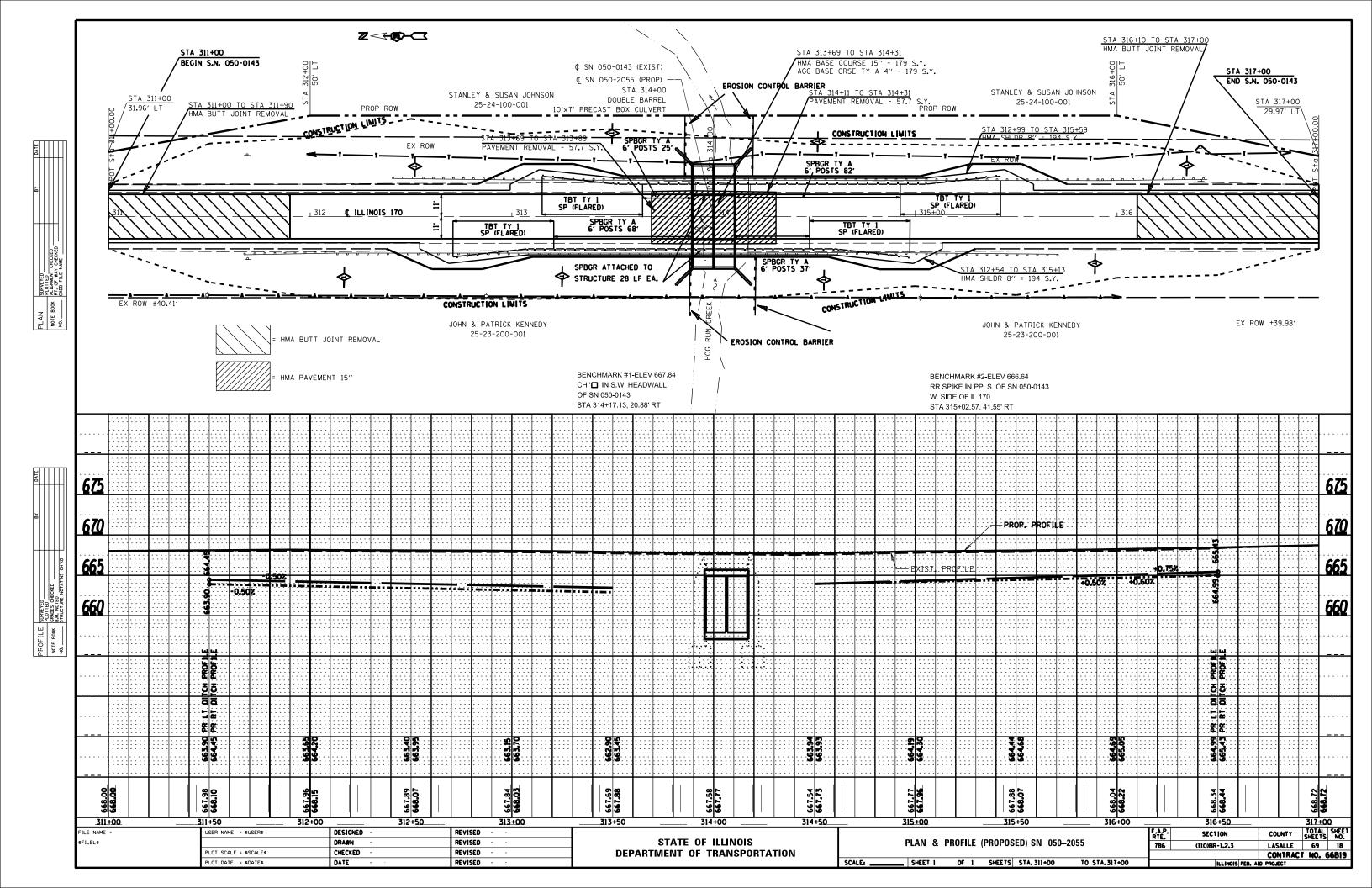
20117011170	F.A.P RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDULES	786	(110)BR-1,2,3	LASALLE	69	13
			CONTRAC	T NO. (	56B19
SCALE: SHEET OF SHEETS STA TO STA		ILLINOIS FED. A	D PROJECT		

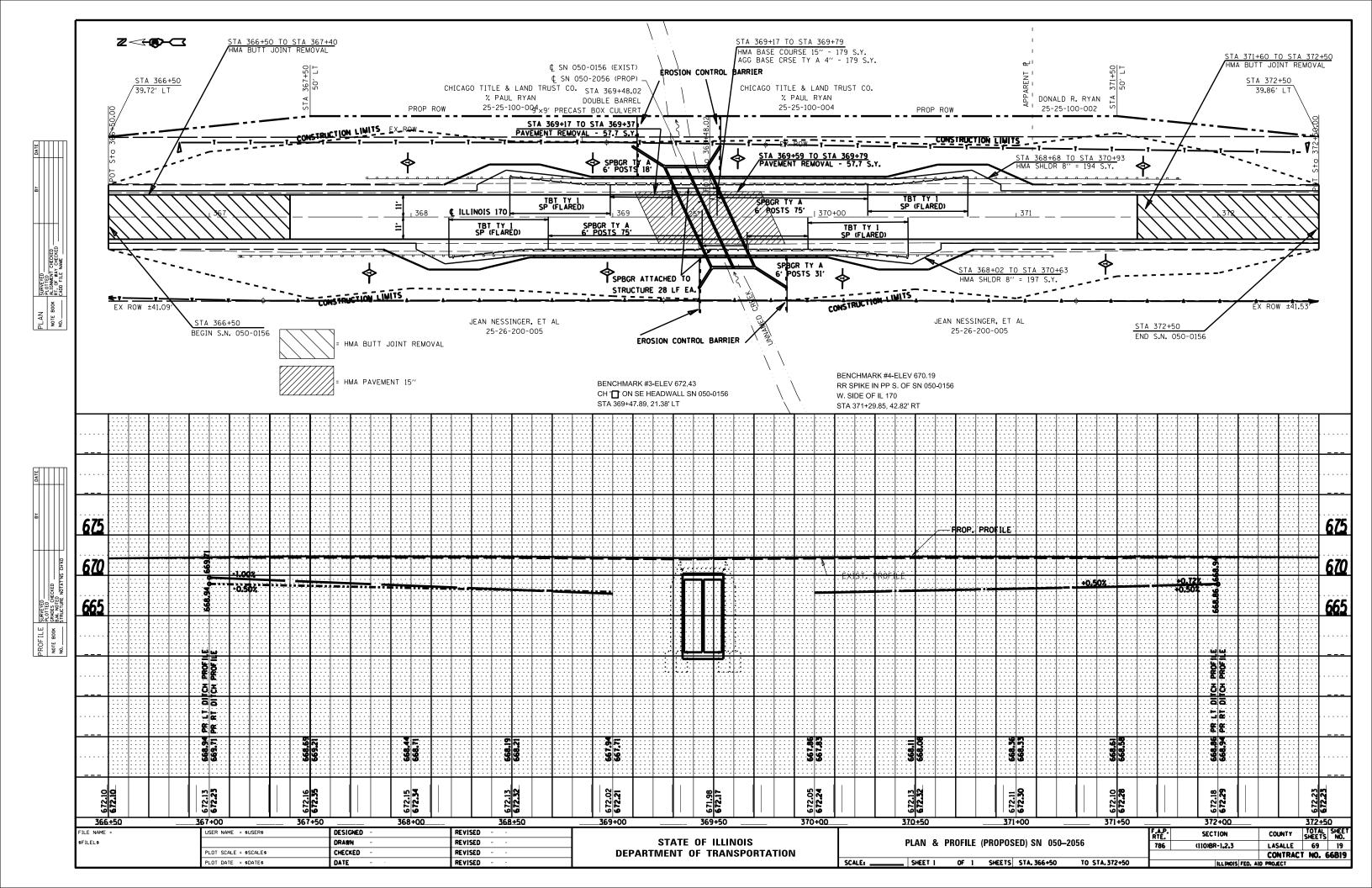


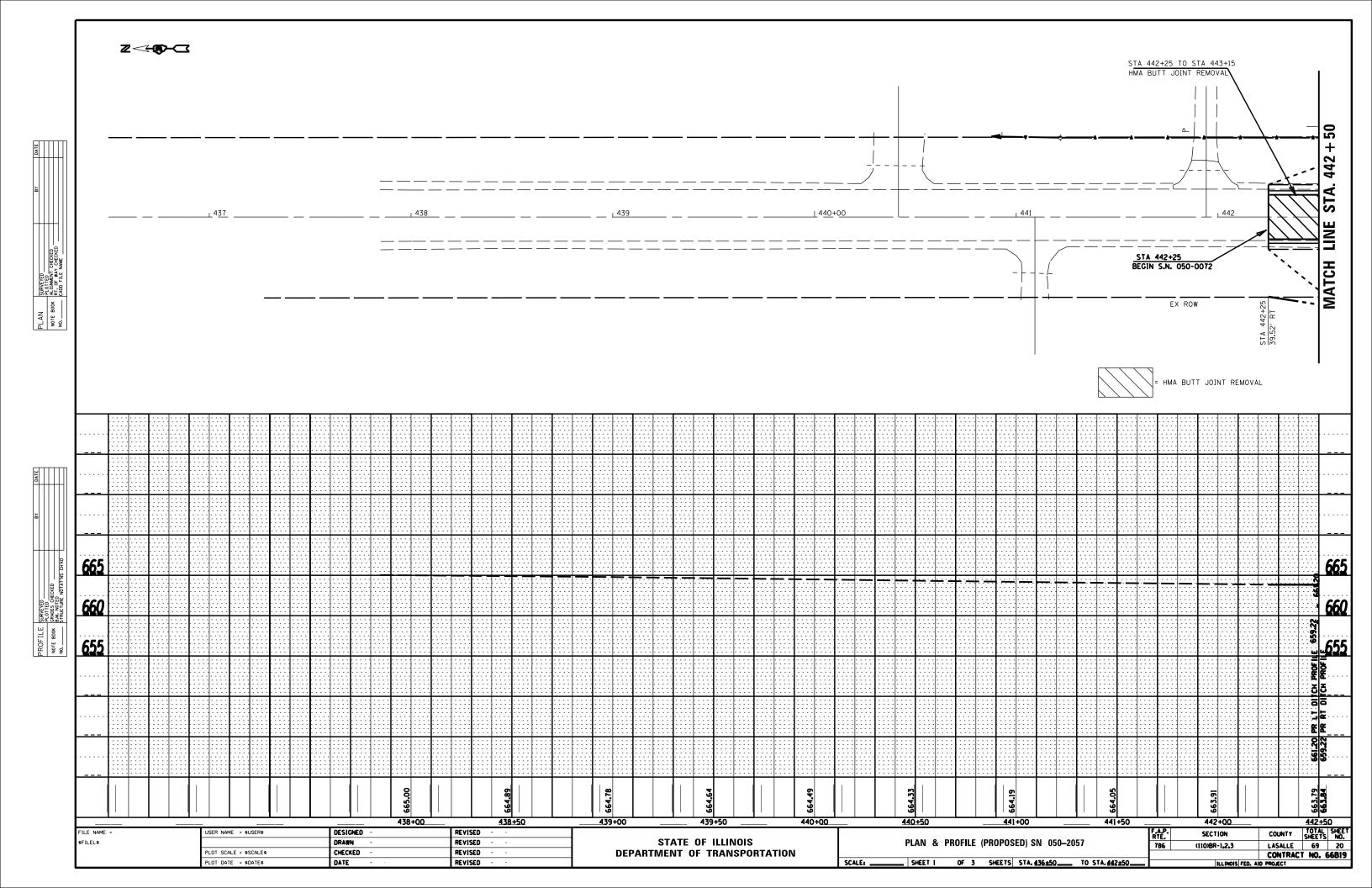


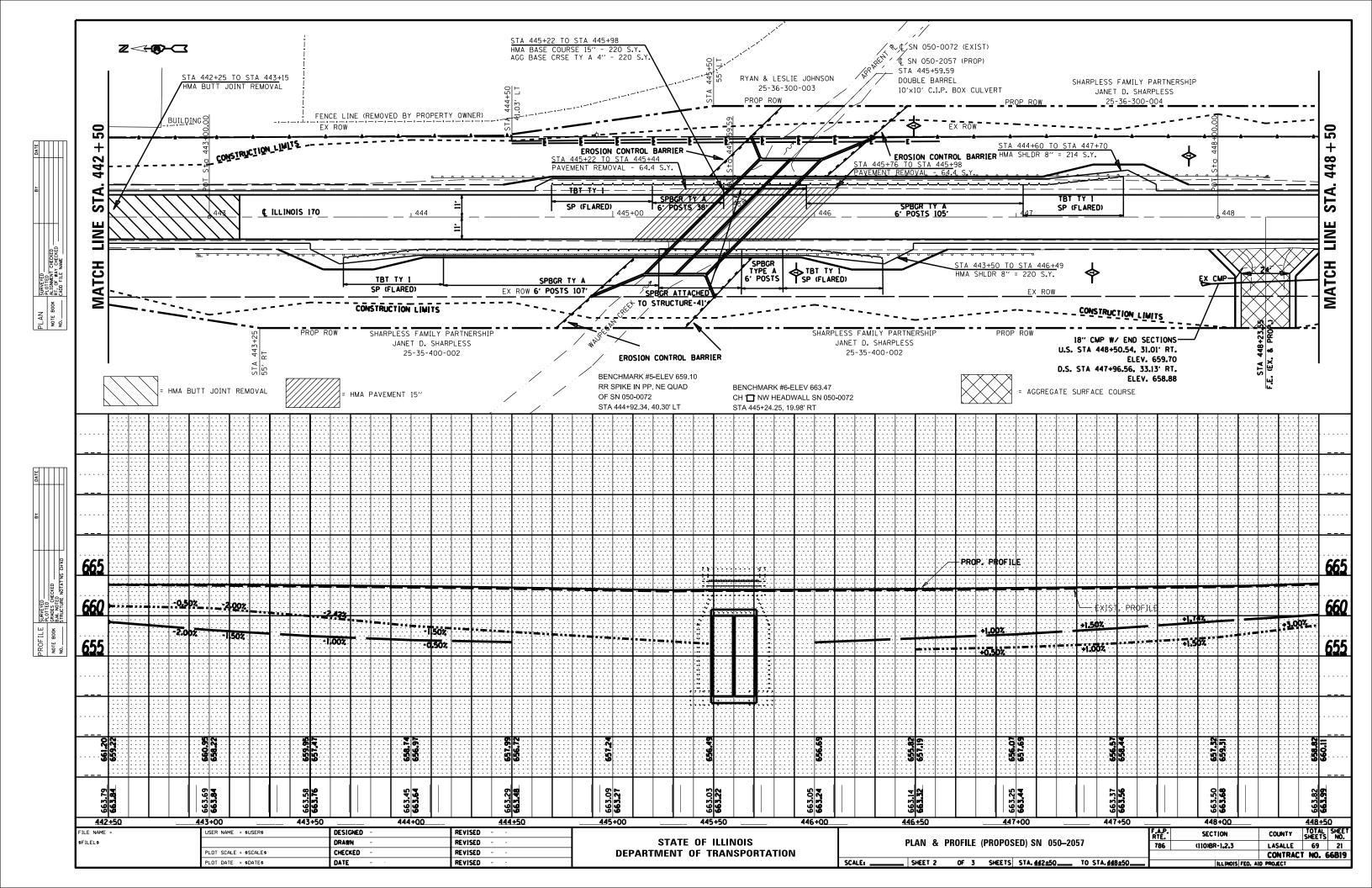


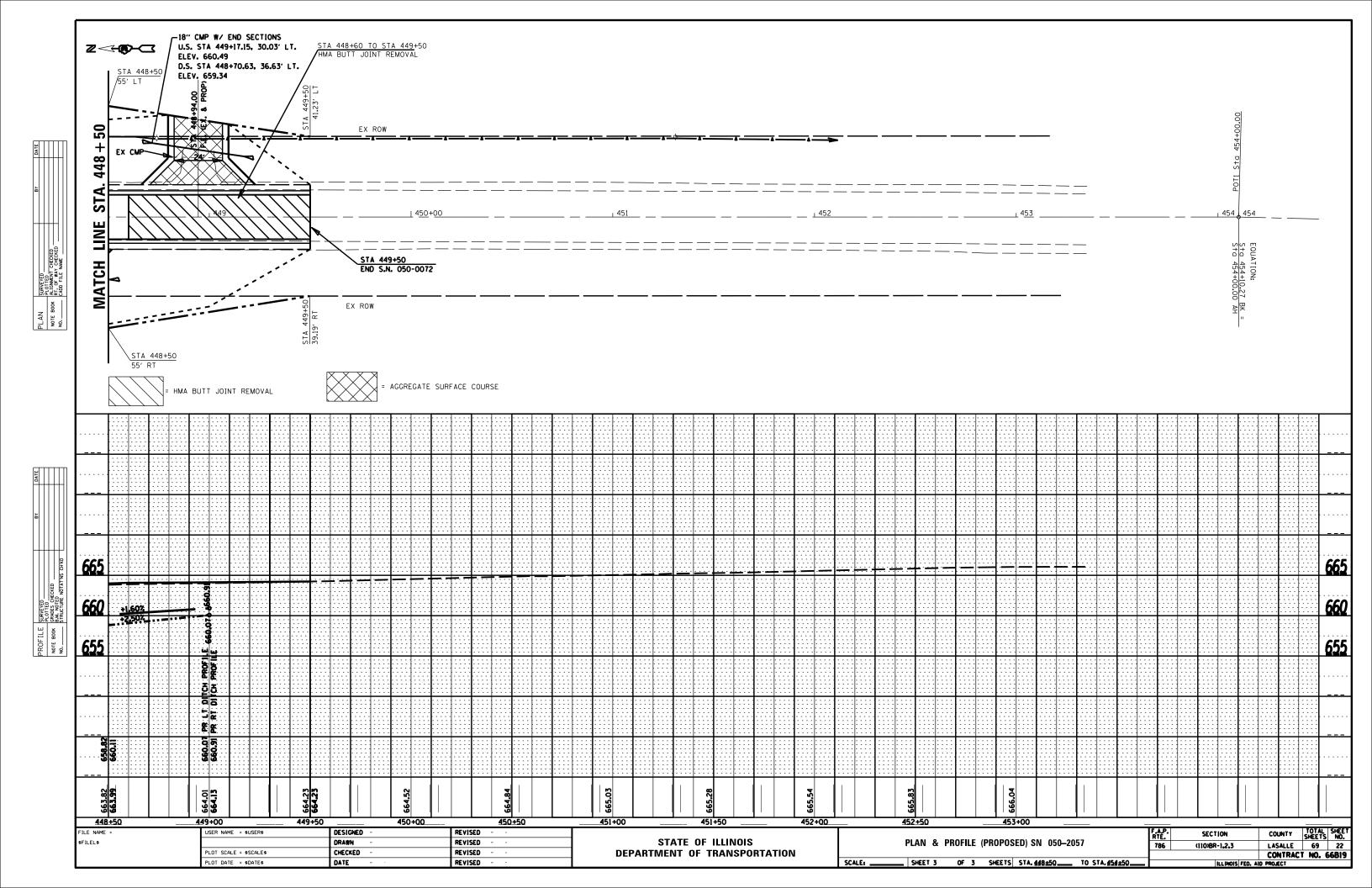


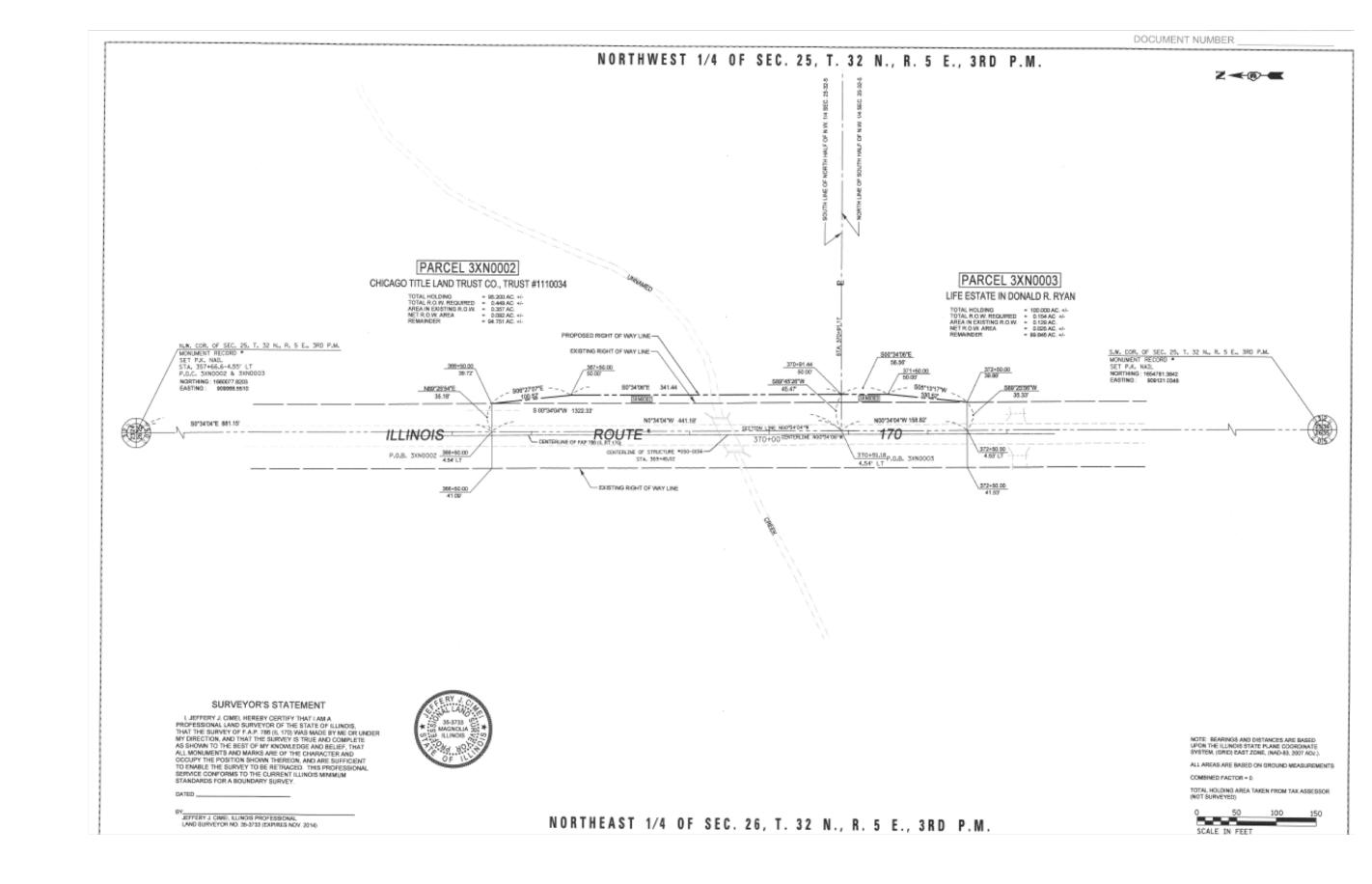




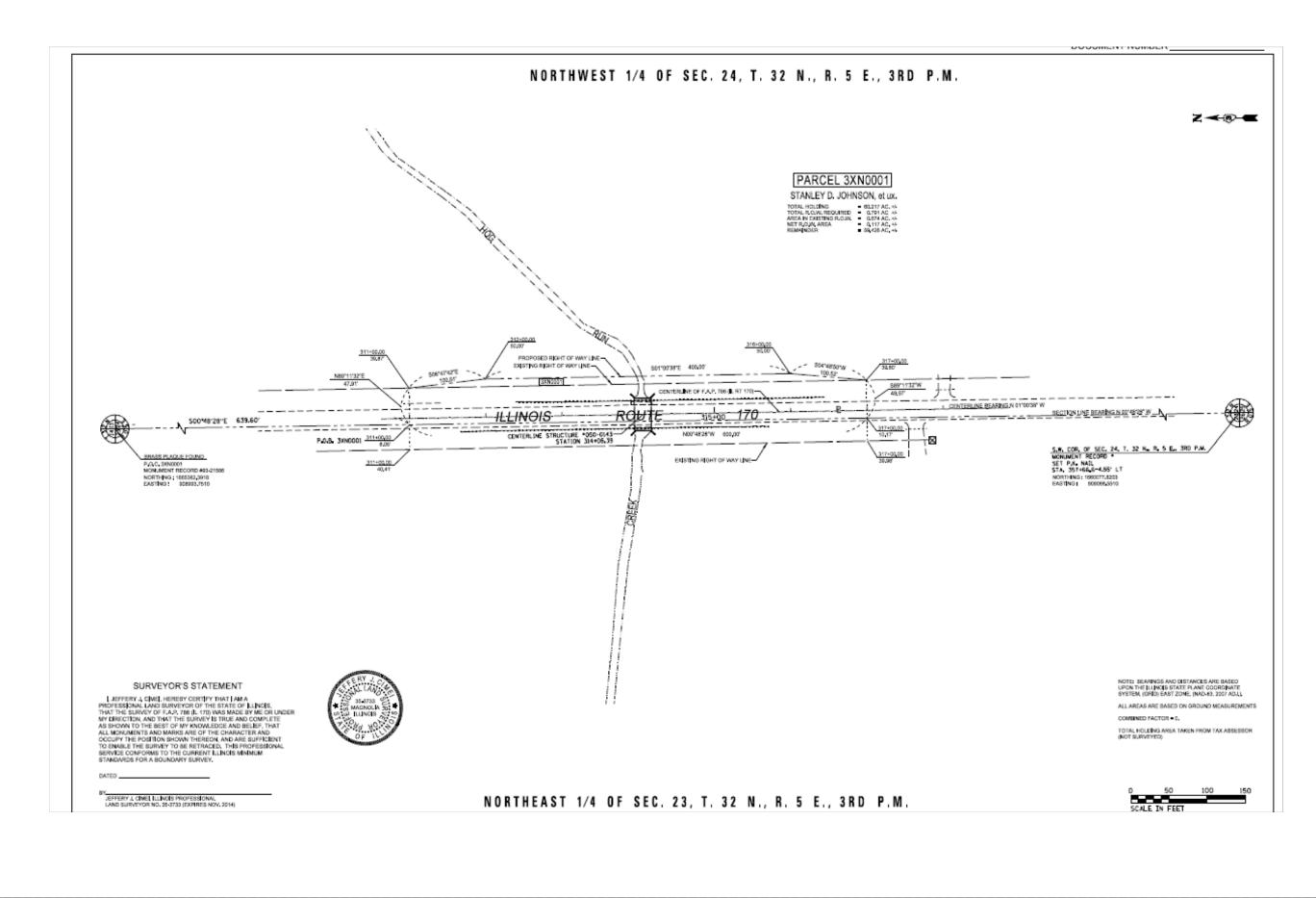




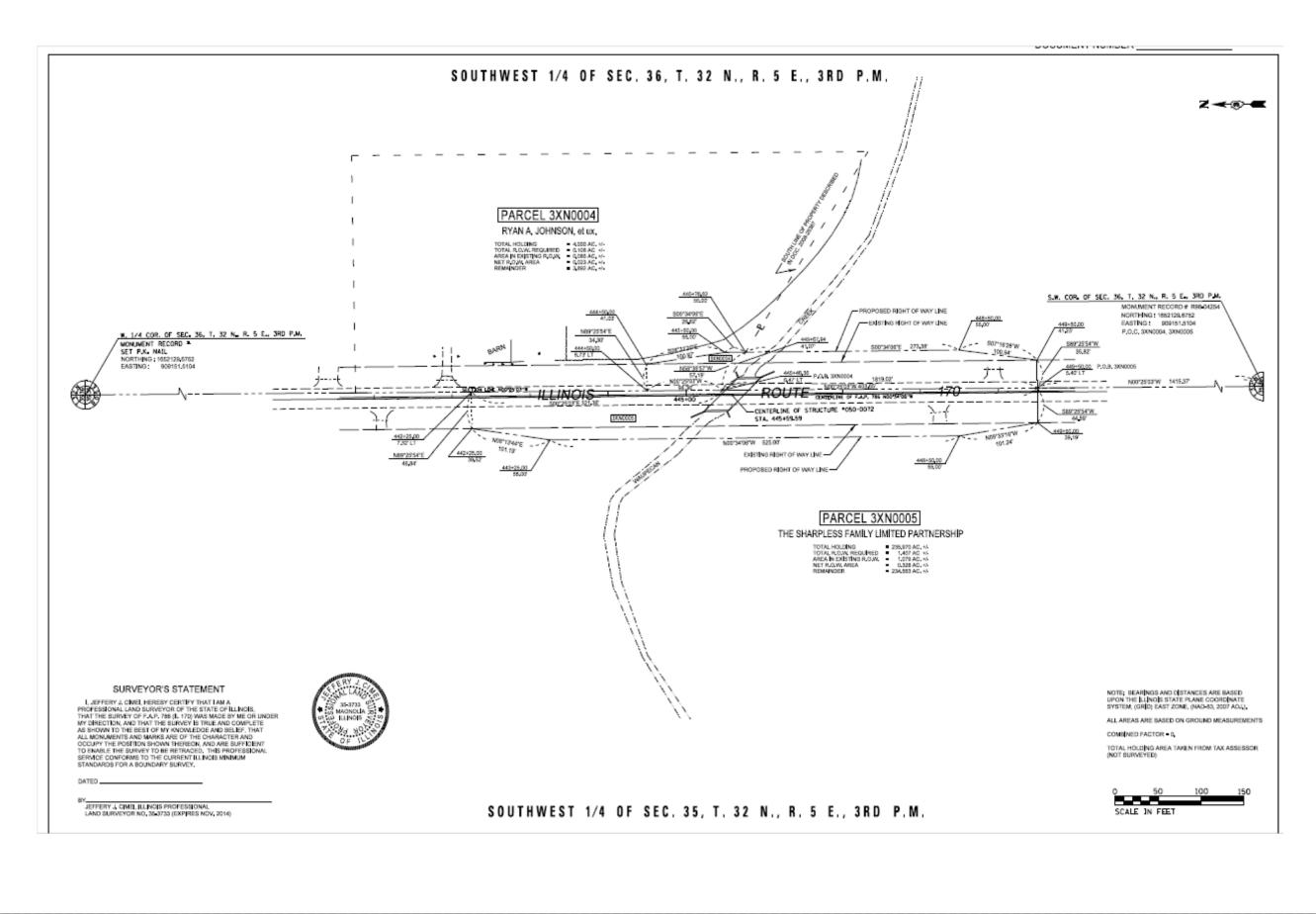




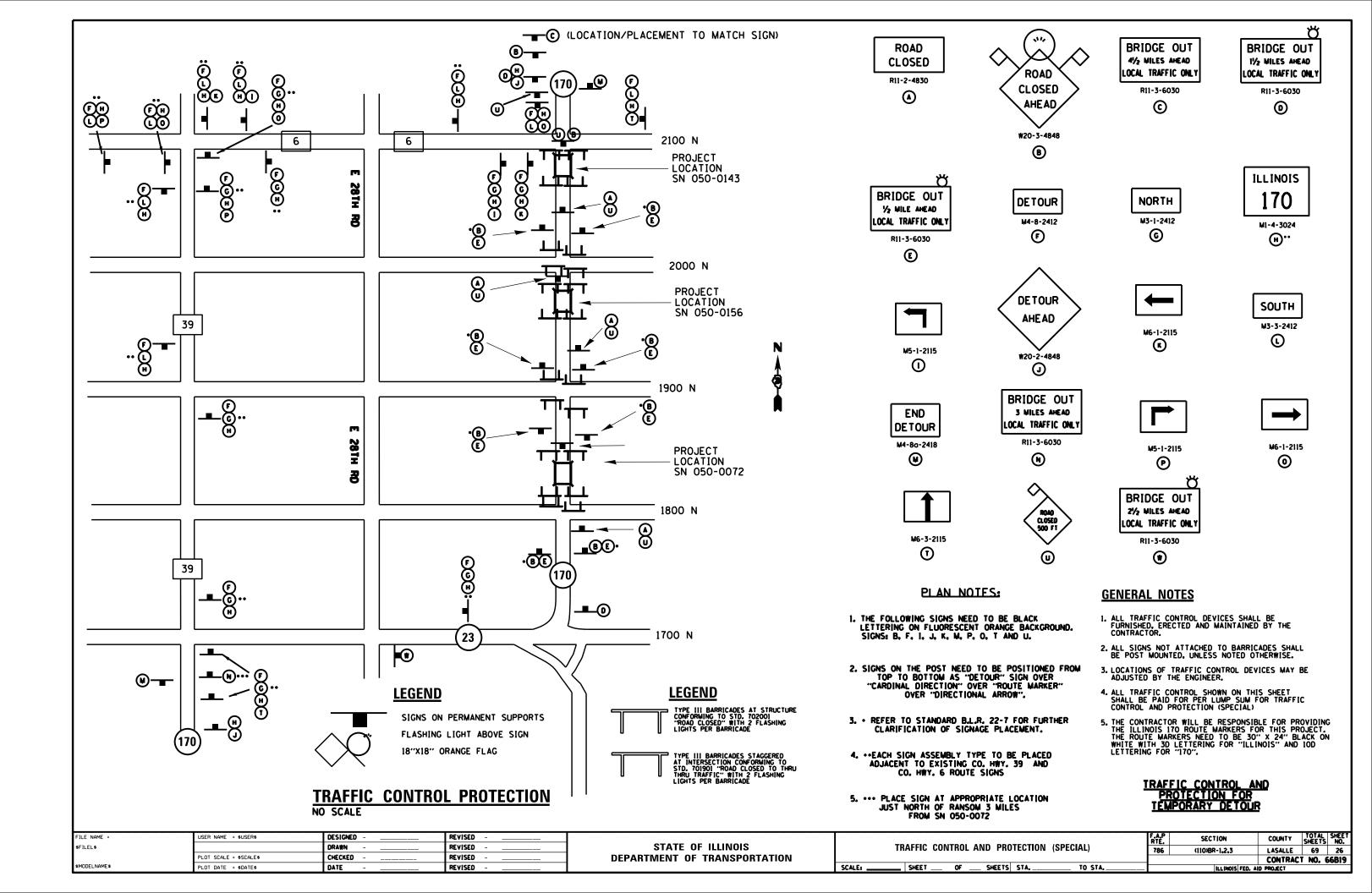
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\$FILEL\$		DRAWN	REVISED	STATE OF ILLINOIS	ROW SHEET-EXIST SN 050-0143	LLINOIS ROW SHEET-E	786	(110)BR-1,2,3	LASALLE 69 23	23	
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION					CONTRAC	CT NO. 60	6B19
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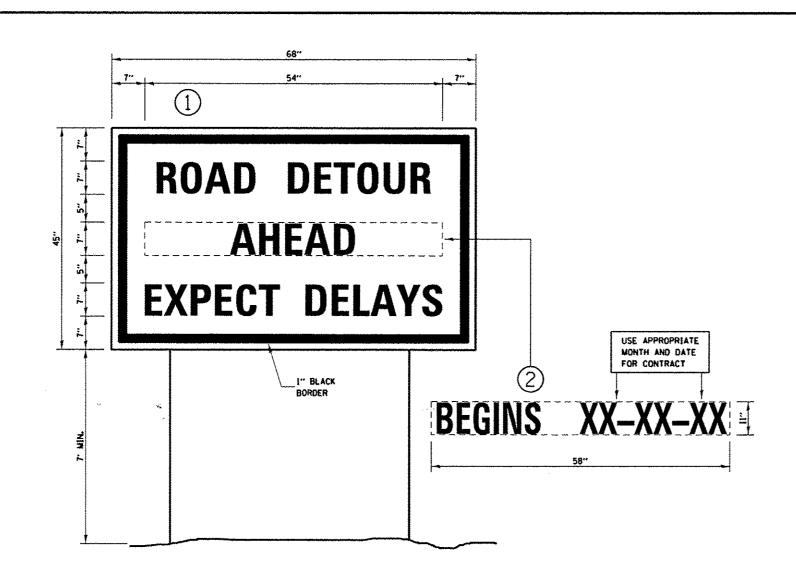


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F	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED			F.A.P SECTION	COUNTY TOTAL SHEET
•	FILEL\$		DRAWN	REVISED	STATE OF ILLINOIS	ROW SHEET-EXIST SN 050-0072	786 (110)BR-1,2,3	LASALLE 69 25
		PLOT SCALE = \$SCALE\$	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 66B19
4	MODELNAME\$	PLOT DATE = \$DATE\$	DATE	REVISED		SCALE: SHEET OF SHEETS STA TO STA.	ILLINOIS FED. A	





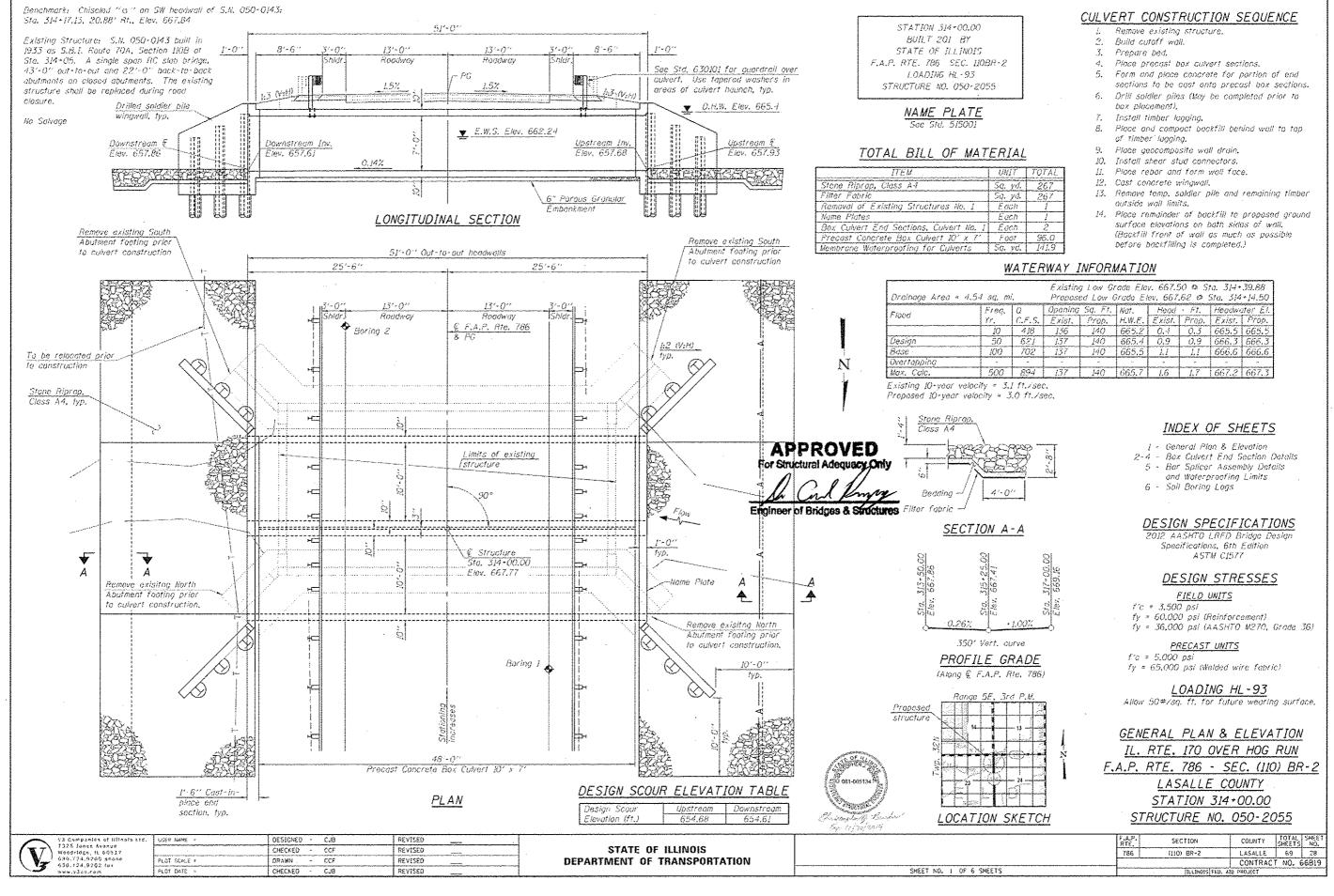
## TEMPORARY INFORMATION SIGN

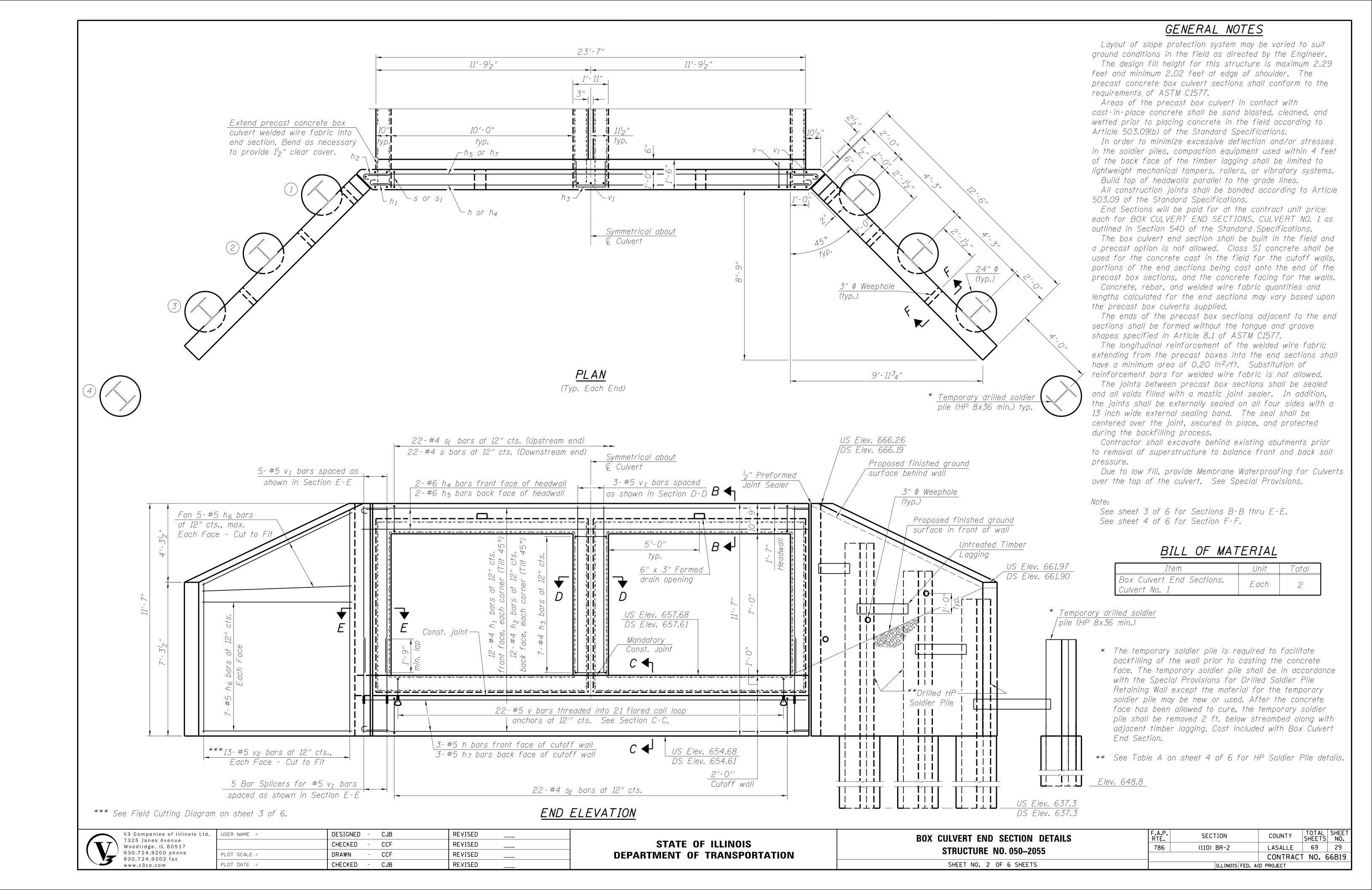
### NOTES:

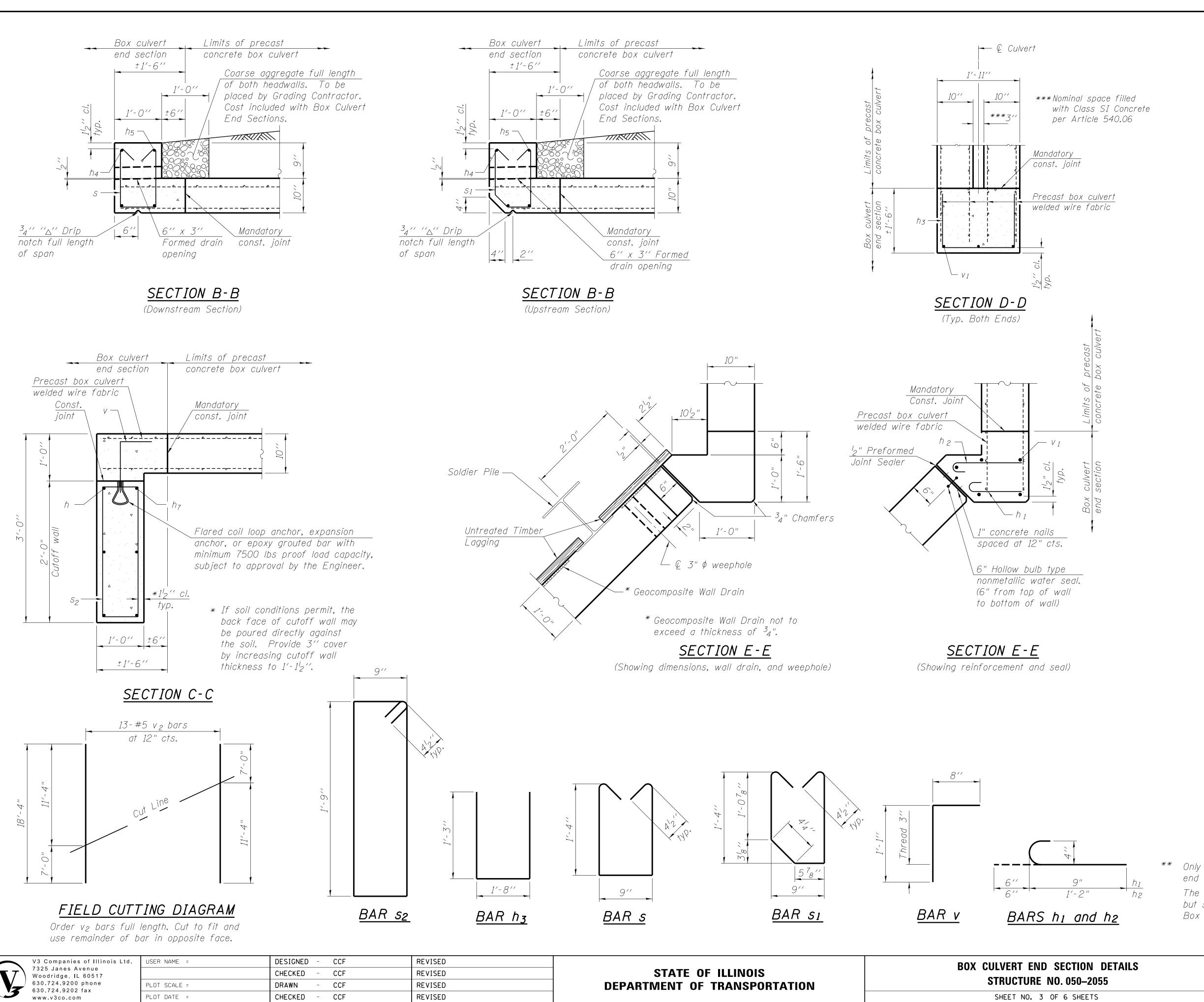
- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS 500 FT. IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN () WITH INSTALLED PANEL (2) A MINIMUM OF ONE WEEK PRIOR TO THE START OF DETOUR.
- 4. REMOVE PANEL (2) ON THAT DATE.
- 5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGN" FOR ADDITIONAL INFORMATION.

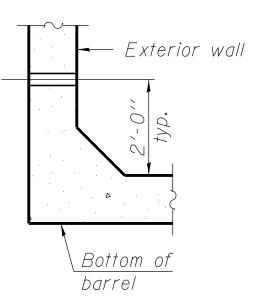
6.SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR TEMPORARY INFORMATION SIGN. INSTALLED SIGN PANEL 2 SHALL NOT BE MEASURED SEPERATELY BUT SHALL BE CONSIDERED INCLUDED IN THE SQUARE FOOTAGE OF SIGN 1.

							Rev.
FILE NAME .	USER NAME . BUSERS	DESIGNED -	REVISED -			F.A.P SECTION	COUNTY TOTAL S
AFILEL*		DRAWN -	REVISED -	STATE OF ILLINOIS	TRAFFIC CONTROL DETAILS	786 (110)BR-1.2	J LASALLE 69
	PLOT SCALE * #SCALE#	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION		744	CONTRACT NO. 668
*MODELNAME*	PLOT DATE # #DATE#	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	KLP	HOIS FED. AND PROJECT









# DRAIN DETAIL

Provide 3"  $\phi$  drain holes in exterior walls at  $\pm 8'$  cts. See Article 503.11 of the Standard Specifications.

# ONE END SECTION BILL OF MATERIAL

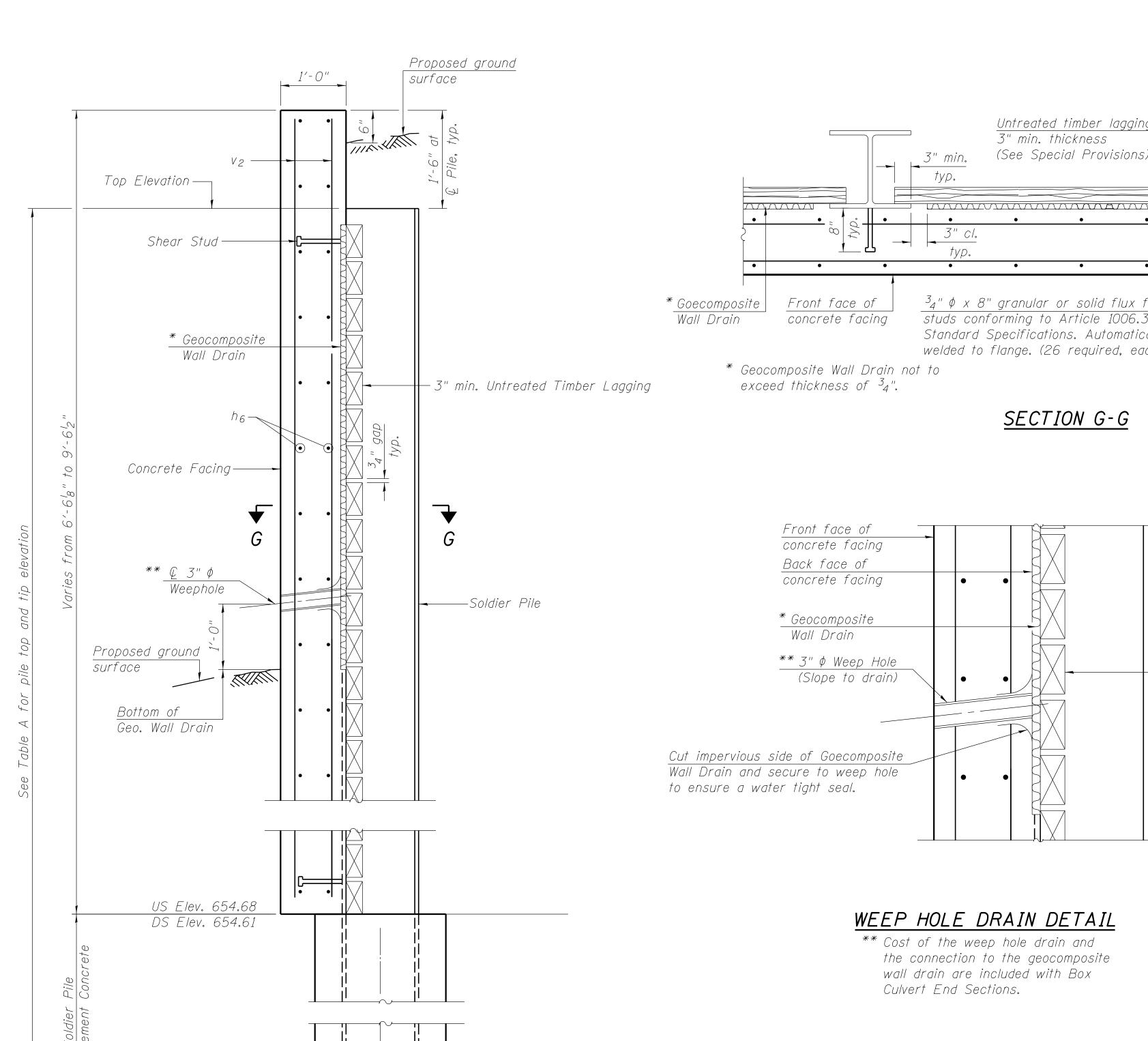
(For information only)

		(FOT	ini or mc	illon only)	
	Bar	No.	Size	Length	Shape
	h	3	#5	23'-5"	
	$h_1$	24	#4	1'-5"	
	h2	24	#4	1'-9"	
	h 3	7	#4	4'-2"	
	h 4	2	#6	23'-7"	
	h 5	2	#6	25'-0"	
	h 6	48	#5	12'-3"	
	h <sub>7</sub>	3	#5	25'-0"	
**	S	22	#4	4'-2"	
**	S 1	22	#4	4'-0"	U
	S 2	22	#4	5′-9"	
	V	22	#5	1'-9"	
	V 1	13	#5	8'-4"	
	V 2	26	#5	18'-4"	-
	Concrei	te Struc	tures	Cu. Yd.	8.8
	Stud Si	hear		Each	52
	Conneci	tors		<u> </u>	52
	Reinfor	cement	Bars	Pound	1,780
	Bar Sp	licers		Each	10
		ing Sold		Foot	174
		HP Secti		1 001	111
	_	and Se	-	Cu. Ft.	365
		Piles (ii		<i></i>	303
		ed Timb	er	Sq. Ft.	188
	Lagging				
		te Box		Cu. Yd.	6.1
		posite V	Vall	Sq. Yd.	5
	Drain				
or o	, harc	ara raa	uired fo	r aach	

\*\* Only s or  $s_1$  bars are required for each end section.

The above pay items will not be measured for payment but shall be included in the contract unit price each for Box Culvert End Sections of the culvert number specified.

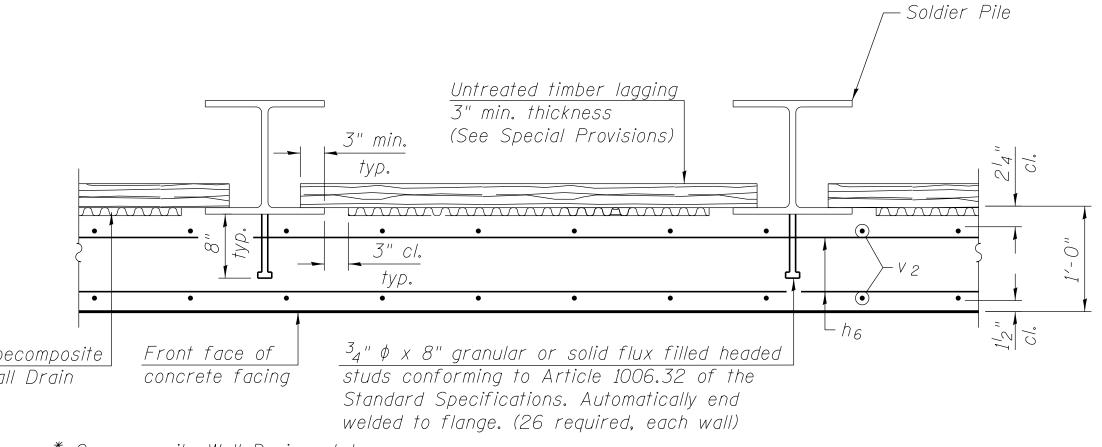
BOX CULVERT END SECTION DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 050-2055	786	(110) BR-2	LASALLE	69	30
SHEET NO. 3 OF 6 SHEETS  CONTRACT NO. 6  SHEET NO. 3 OF 6 SHEETS			CONTRAC	T NO. 6	6B19

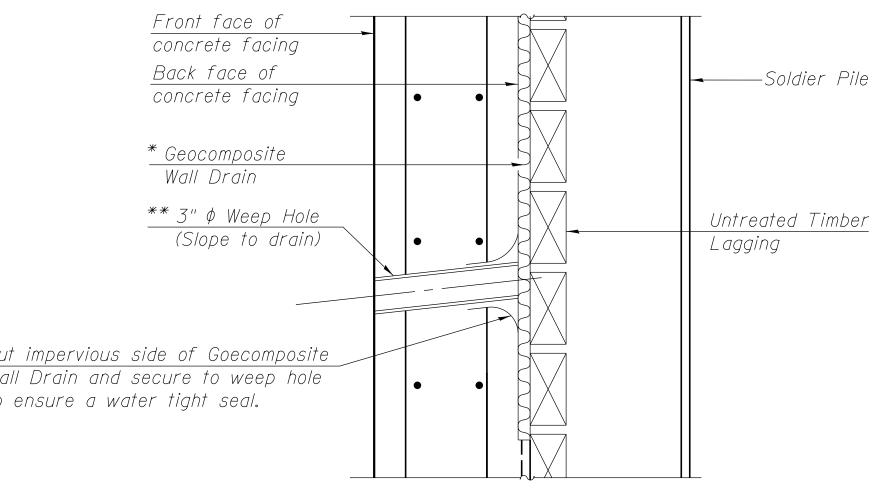


# SECTION F-F

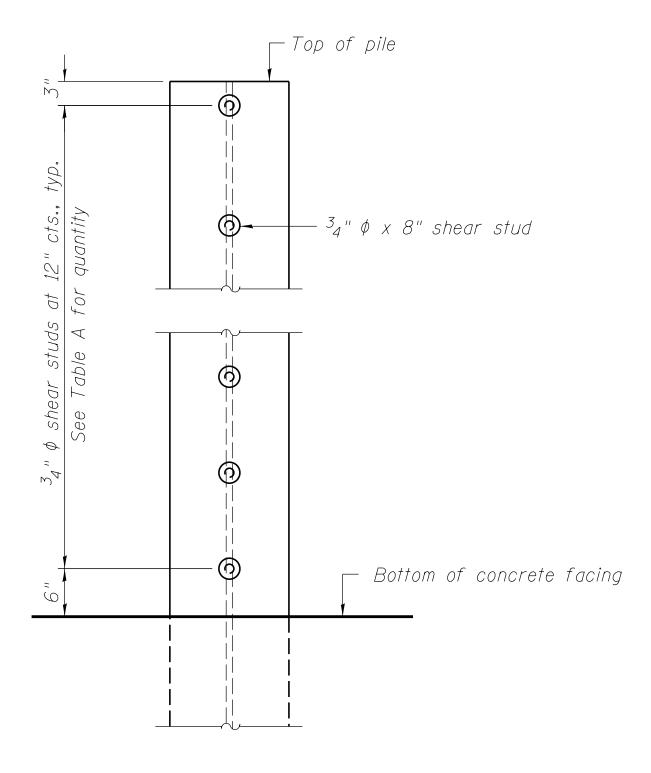
24" Ø

Bottom Elevation—





The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.



## SHEAR STUD DETAIL (Elevation of Pile Shown)

# TABLE A (Upstream)

		, in the second			
Soldier Pile	Pile Size	Top Elevation (ft.)	Bottom Elevation (ft.)	Total Height (ft.)	Number of Shear Studs
1	HP 14 x 89	664.22	637.3	26.92	10
2	HP 14 x 89	662.70	637.3	25.40	9
3	HP 14 x 89	661.19	637.3	23.89	7
4	HP 8x36 (min.)	659.04	648.8	10.24	

# TABLE A

(Downstream)

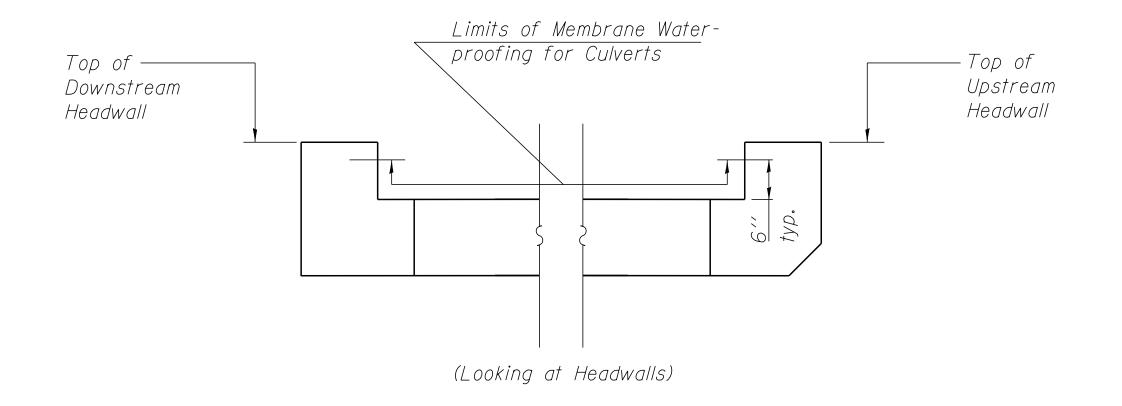
Soldier Pile	Pile Size	Top Elevation (ft.)	Bottom Elevation (ft.)	Total Height (ft.)	Number of Shear Studs
1	HP 14 x 89	664.15	637.3	26.85	10
2	HP 14 x 89	662.63	637.3	25.33	9
3	HP 14 x 89	661.12	637.3	23.82	7
4	HP 8x36 (min.)	658.97	648.8	10.17	

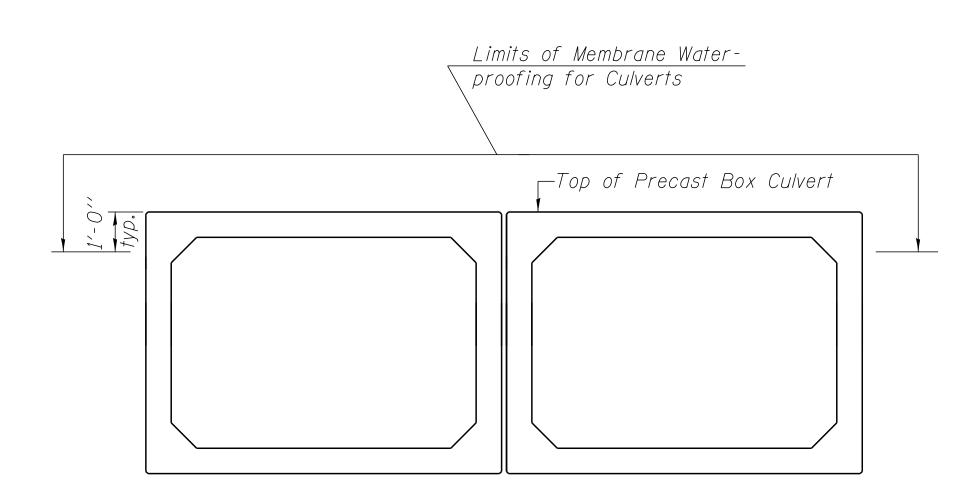
COUNTY TOTAL SHEET NO.

LASALLE 69 31

CONTRACT NO. 66B19

### DESIGNED -REVISED V3 Companies of Illinois Ltd. USER NAME = CJB SECTION **BOX CULVERT END SECTION DETAILS** 7325 Janes Avenue **STATE OF ILLINOIS** CHECKED -CCF REVISED Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax (110) BR-2 **STRUCTURE NO. 050–2055 DEPARTMENT OF TRANSPORTATION** PLOT SCALE = DRAWN CCF REVISED SHEET NO. 4 OF 6 SHEETS PLOT DATE = CHECKED -CJB REVISED ILLINOIS FED. AID PROJECT





(Looking at Box Sections)

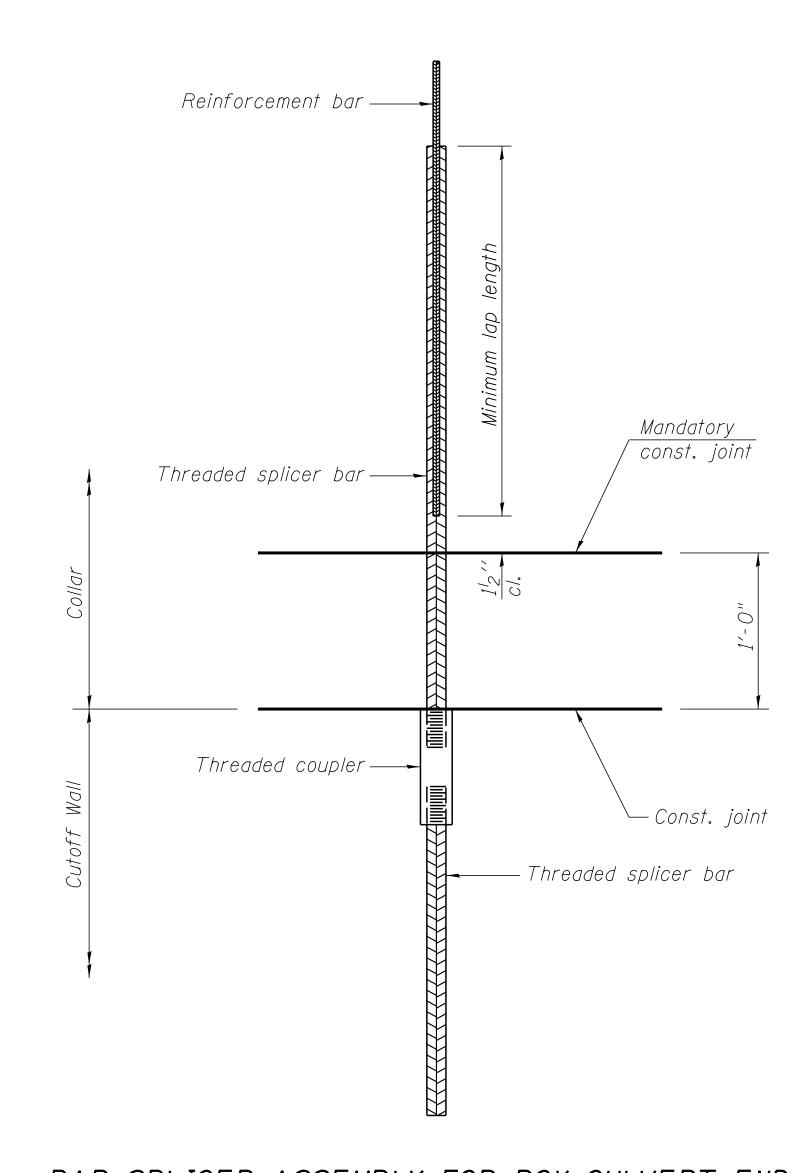
# LIMITS OF MEMBRANE WATER-PROOFING FOR CULVERTS

Note: Membrane Waterproofing for Culverts shall cover top of the top slab, top one foot of side walls, and 6 inches up inside face of the headwalls.

# <u>NOTES</u>

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

All reinforcement shall be lapped and tied to the splicer bars. See approved list of bar splicer assemblies and mechanical splicers for alternatives.



# BAR SPLICER ASSEMBLY FOR BOX CULVERT END SECTION

Minimum Lap Lengths									
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6			
3, 4	1'-5''	1'-11''	2'-1''	2'-4''	2'-7''	2'-11''			
5	1'-9''	2'-5''	2'-7''	2'-11''	3'-3''	3'-8''			
6	2'-1''	2'-11''	3'-1''	3'-6''	3'-10''	4'-5''			
7	2'-9''	3'-10''	4'-2''	4'-8''	5'-2''	5'-10''			
8	3'-8''	5'-1''	5′-5′′	6'-2''	6'-9''	7′-8′′			
9	4'-7''	6'-5''	6'-10''	7'-9''	8'-7''	9'-8''			

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Class C

Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length +  $1^{l}2^{\prime\prime}$  + thread length

Location	Bar size	No. assemblies required	Table for minimum lap length
* Cutoff Wall	5	10	1

\* For one end section

	V3 Companies of Illinois Ltd. 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME =	DESIGNED - CJB	REVISED
<b>T</b> 7			CHECKED - CCF	REVISED
	·	PLOT SCALE =	DRAWN - CCF	REVISED
<u> </u>		PLOT DATE =	CHECKED - CJB	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  BOX CULVERT END SECTION DETAILS AND WATERPROOFING LIMITS **STRUCTURE NO. 050–2055** SHEET NO. 5 OF 6 SHEETS

COUNTY TOTAL SHEET NO.

LASALLE 69 32 SECTION (110) BR-2 CONTRACT NO. 66B19 ILLINOIS FED. AID PROJECT

(P)	Illinois Departmen of Transportation
	Division of Highways
	ILLINOIS DOT

**SOIL BORING LOG** 

Page <u>1</u> of <u>1</u>

Date \_\_\_6/4/12 ROUTE IL 170 (FAP 786) DESCRIPTION IL 170 over Hog Run, 5.93 miles South of US 6 LOGGED BY Larry Myers **SECTION** (110)BR-1,2,3 **LOCATION** NE 1/4, **SEC**. 23, **TWP**. 32N, **RNG**. 5E COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic D B U M Surface Water Elev. 
 D
 B
 U
 M
 Surface Water Elev.
 658.33
 ft
 D
 B
 U
 M

 E
 L
 C
 O
 Stream Bed Elev.
 657.88
 ft
 E
 L
 C
 O
 **STRUCT. NO.** 050-0143 (Exist.) 314+05 (Exist.) POSI POSI T W S Groundwater Elev.: T W S H S Qu T First Encounter \_\_639.8\_\_ ft ▼ H S Qu T Station 313+82 Upon Completion 640.3 ft  $\overline{\nabla}$ 13.00ft Rt. Ground Surface Elev. 667.29 ft (ft) (/6") (tsf) (%) After Hrs. Augered Shoulder Stone, Black Hard Gray Silty Clay Loam Till 6 5.1 14.4 Silty Clay Loam Fill & Brown (continued) Sand/Gravel Fill 9 | S | Medium Brown Sand/Gravel Fill with some Larger Gravel Pieces to 7 5.3 15.0 Cobble Size 10 S 6 5.1 16.3 9 S Stiff Black Silty Clay Loam Topsoil 8 6.2 17.6 \_ 2 1.5 33.0 2 P 11 S 657.29 -10 Hard Brown to Gray Silty Clay Loam Till 5 4.1 16.8 7 S 10 5.8 15.6 14 S 6 4.6 14.5 7 S 652.79 Very Stiff Gray Clay Till <u>-15</u> 10 6.1 18.3 3 3.3 25.3 3 | B | 15 S End of Boring Very Stiff Gray Sandy Clay Loam with Sand Layers & Loam Layers 5 P Hard Gray Silty Clay Loam Till

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

BBS, form 137 (Rev. 8-99)



# **SOIL BORING LOG**

Page <u>1</u> of <u>1</u>

Date 6/4/12

ROUTEI	L 170 (FAP 786)	DE		· HON	IL_	17000	er Hog Run, 5.93 miles	GOURT OF US C		<i>.</i>	ום ט.	∟апу	wiyel
SECTION	(110)BR-1,2,3	3	_ [	LOCAT	ION _	NW 1/-	4, <b>SEC</b> . 24, <b>TWP</b> . 32N,	RNG. 5E					
COUNTY	LaSalle D	RILLING	MET	HOD		Hol	low Stem Auger	_ HAMMER T	YPE	(	ME A	utoma	tic
STRUCT. NO. Station	050-0143 (Exist.) 314+05 (Exist.)		D E P	B L O	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.	658.33 657.88	_	D E P	B L O	U C S	M O I
BORING NO Station	2 (S.E. Quad.) 314+27		T H	W S	Qu	S T	Groundwater Elev.: First Encounter	639.7	ft ▼	T H	W S	Qu	S T
Offset Ground Surface	13.00ft Lt. ce Elev. 667.19	ft	(ft)	(/6")	(tsf)	(%)	Upon Completion After Hrs.		_ft∑ _ft	(ft)	(/6")	(tsf)	(%)
	der Stone, Black Fill, Brown Sand &						Hard Gray Silty Clay L	oam Till		_	5 7 11	5.7 S	14.9
		664.69											
Medium Brown with Layers of G	Sand & Gravel Fill Gravel Pieces	304.00		4 6 11		5.2					5 5 8	5.1 S	15.
											0	3	
Stiff Black Silty	Clay Loam Topsoil	662.19	-5 —	5	1.5	25.5				25 	6 8	5.1	16.0
			_	2	Р				- -	abla	10	S	
Stiff Brown & G Till	ray Silty Clay Loam	659.69		1	4.5	0.4.7				<u>¥</u>	6		4.4.
1111				2	1.5 P	24.7					8 11	5.3 S	14.0
Hard to Very St	iff Brown to Gray	657.19	-10	3						30	9		
Silty Clay Loam	Till		_	3 4	4.1 B	21.7					14 12	5.7 S	17.0
				4									
				6	4.4 B	25.4							
			-15	3						-35	8		
				4 6	3.5 S	21.0			630.69		10 14	6.3 S	15.2
	dy Clay Loam Till	650.19					End of Boring		550.08		· · ·		
with Sand Laye				4	4.4	14.8							
				7	S								
		647.19	-20							<b>-</b> 40			

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

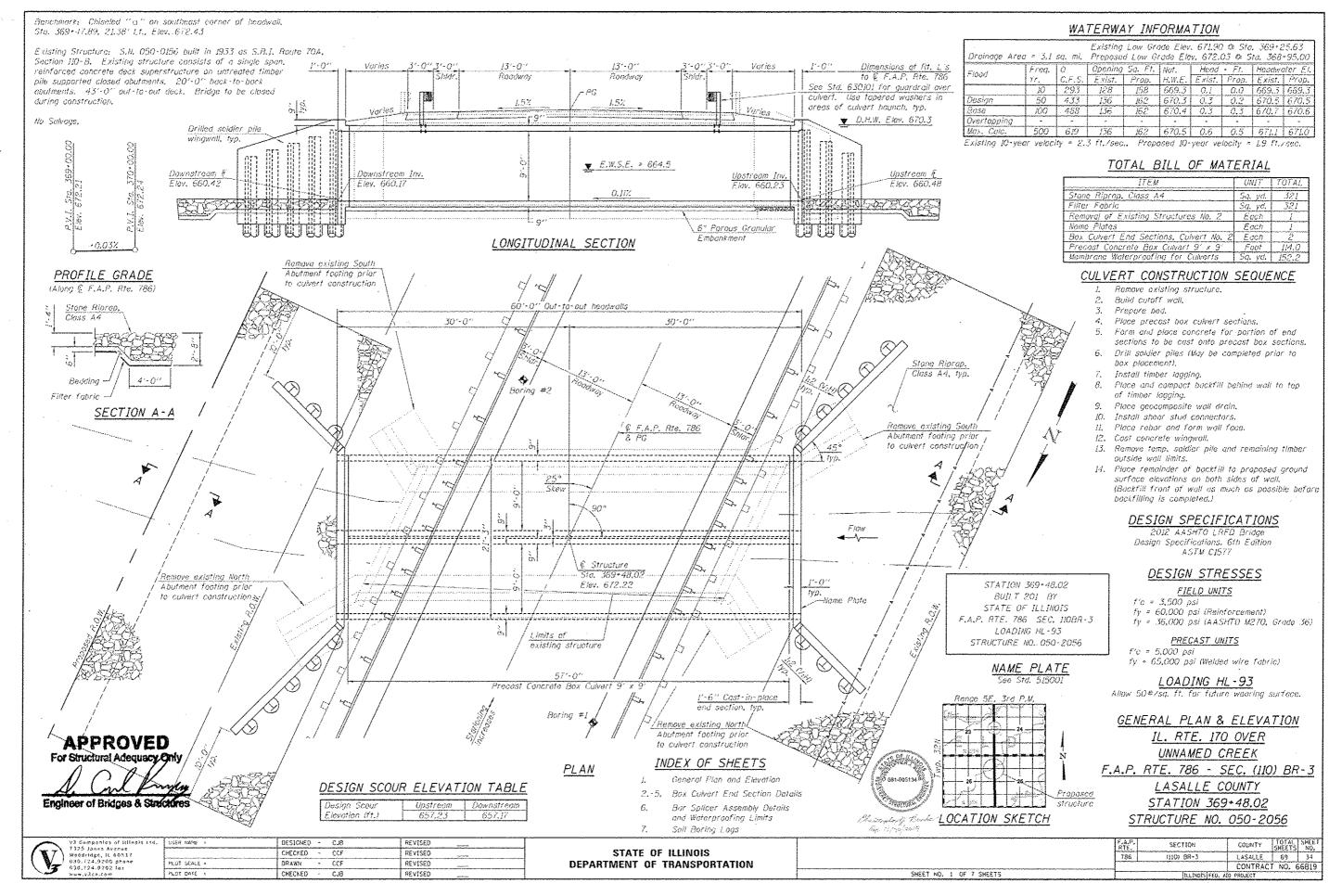
BBS, form 137 (Rev. 8-99)

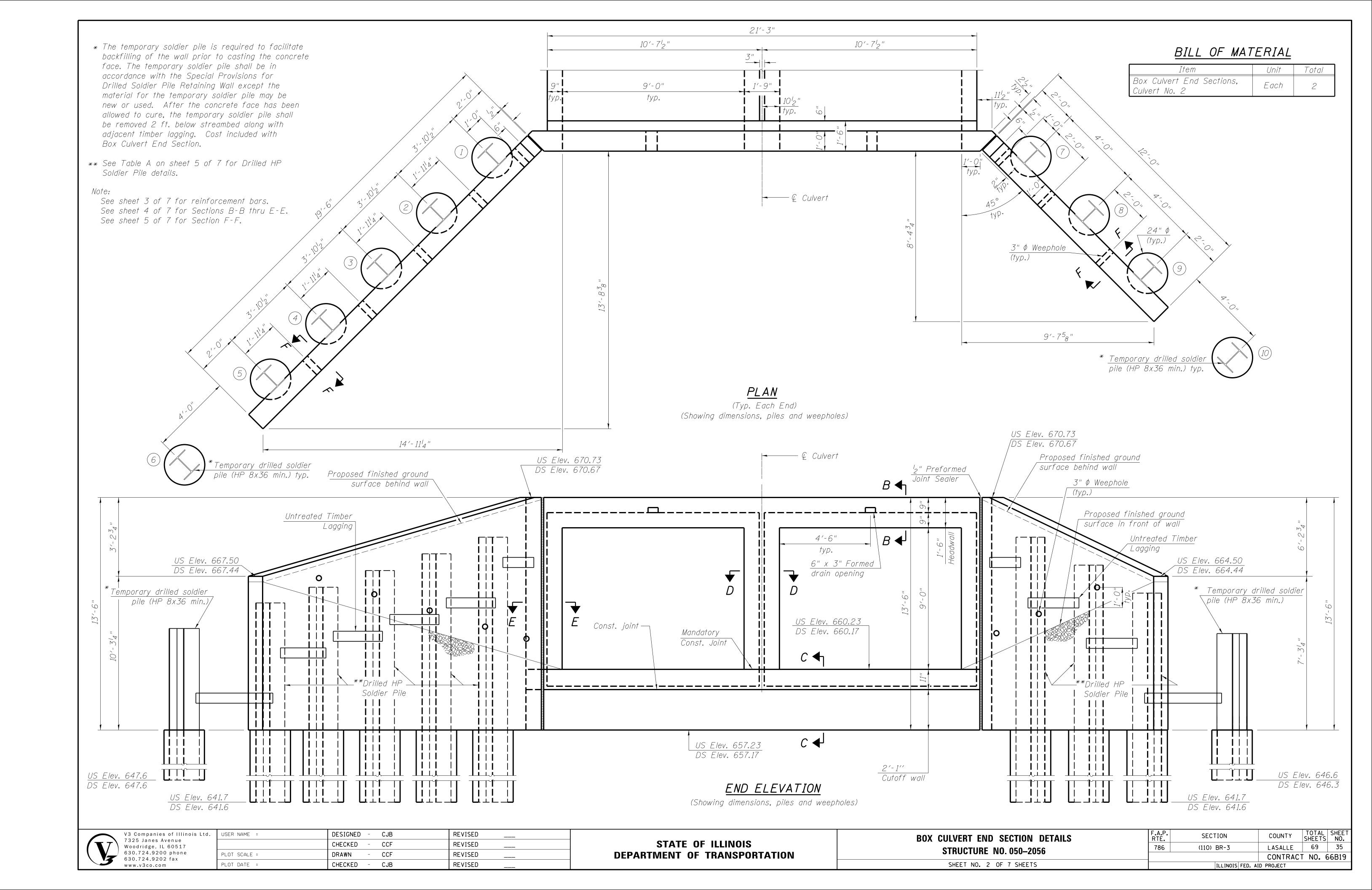
	V3 Companies of Illinois Ltd.	I
<b>/</b> \	7325 Janes Avenue	Ì
	Woodridge, IL 60517	l
	630.724.9200 phone	I
\ \\	630.724.9202 fax	ŀ
	www.v3co.com	١

USER NAME =	DESIGNED	-	CJB	REVISED	
	CHECKED	_	CCF	REVISED	ĺ
PLOT SCALE =	DRAWN	_	CCF	REVISED	
PLOT DATE =	CHECKED	-	СЈВ	REVISED	

STATE OF ILLINOIS									
DEPARTMENT OF TRANSPORTATION									

SOIL BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
STRUCTURE NO. 050-2055	786	(110) BR-2	LASALLE	69	33
3111001011L NO. 030-2033			CONTRAC	T NO.	56B19
SHEET NO. 6 OF 6 SHEETS		ILLINOIS FED. A	ID PROJECT		





Layout of slope **GENETBAL**yst**NOTHES**e varied to suit ground conditions in the field as directed by the Engineer.

The design fill height for this structure is maximum 2.27 feet and minimum 2.00 feet at edge of shoulder. The precast concrete box culvert sections shall conform to the requirements of ASTM C1577.

Areas of the precast box culvert in contact with cast-in-place concrete shall be sand blasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b) of the Standard Specifications.

In order to minimize excessive deflection and/or stresses in the soldier piles, compaction equipment used within 4 feet of the back face of the timber lagging shall be limited to lightweight mechanical tampers, rollers, or vibratory systems.

Build top of headwalls parallel to the grade lines.

All construction joints shall be bonded according to Article
503.09 of the Standard Specifications.

End Sections will be paid for at the contract unit price each for BOX CULVERT END SECTIONS, Culvert No. 2 as outlined in Section 540 of the Standard Specifications.

The box culvert end section shall be built in the field and a precast option is not allowed. Class SI concrete shall be used for the concrete cast in the field for the cutoff walls, portions of the end sections being cast onto the end of the precast box sections, and the concrete facing for the walls.

Concrete, rebar, and welded wire fabric quantities and lengths calculated for the end sections may vary based upon the precast box culverts supplied.

The ends of the precast box sections adjacent to the end sections shall be formed without the tongue and groove shapes specified in Article 8.1 of ASTM C1577.

The longitudinal reinforcement of the welded wire fabric extending from the precast boxes into the end sections shall have a minimum area of 0.20 in /ft. Substitution of reinforcement bars for welded wire fabric is not allowed.

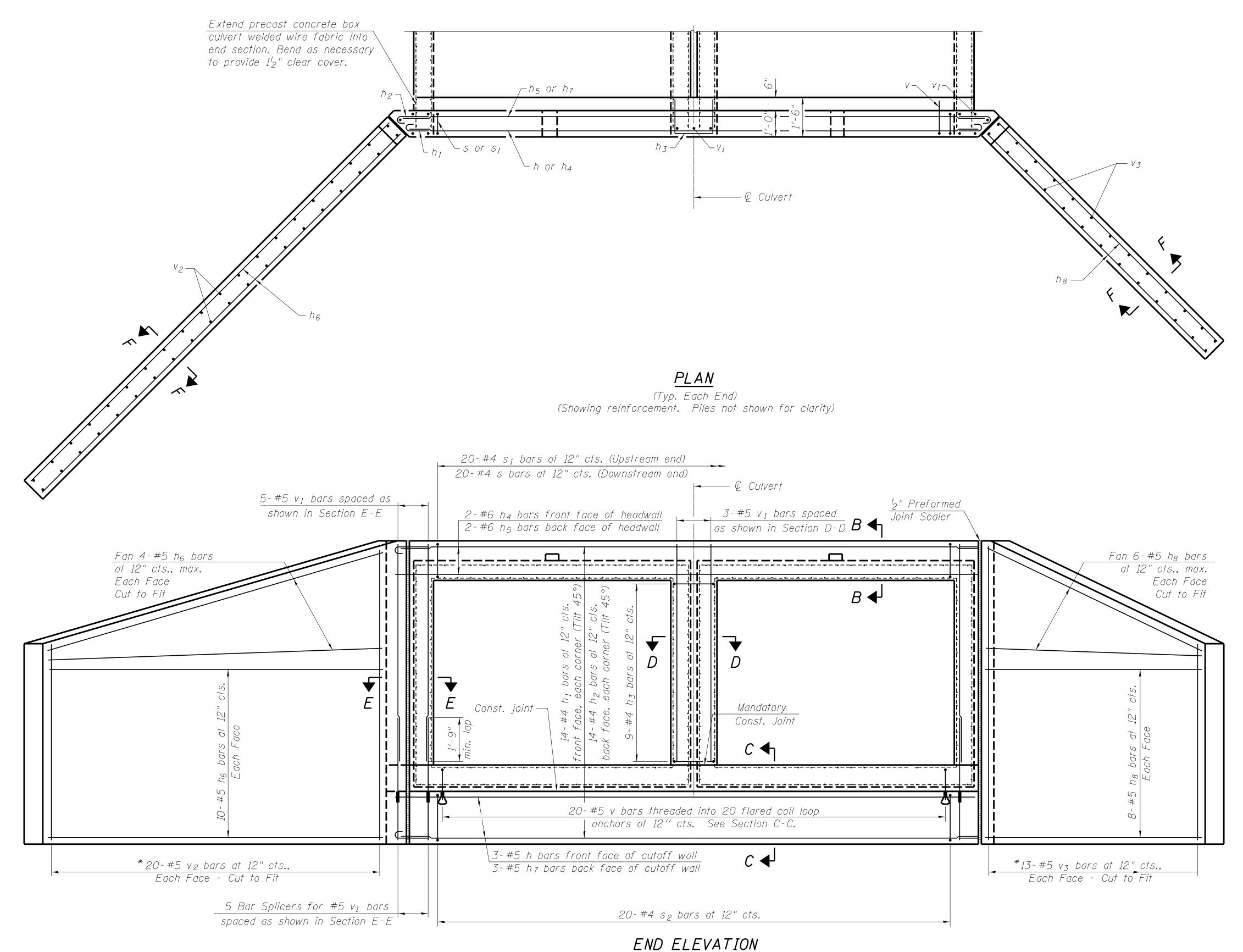
The joints between precast box sections shall be sealed and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place, and protected during the backfilling process.

Contractor shall excavate behind existing abutments prior to removal of superstructure to balance front and back soil pressure.

Due to low fill, provide Membrane Waterproofing for Culverts over the top of the culvert. See Special Provisions.

## Note

See sheet 2 of 7 for dimensions, piles and weepholes. See sheet 4 of 7 for Sections B-B thru E-E. See sheet 5 of 7 for Section F-F.

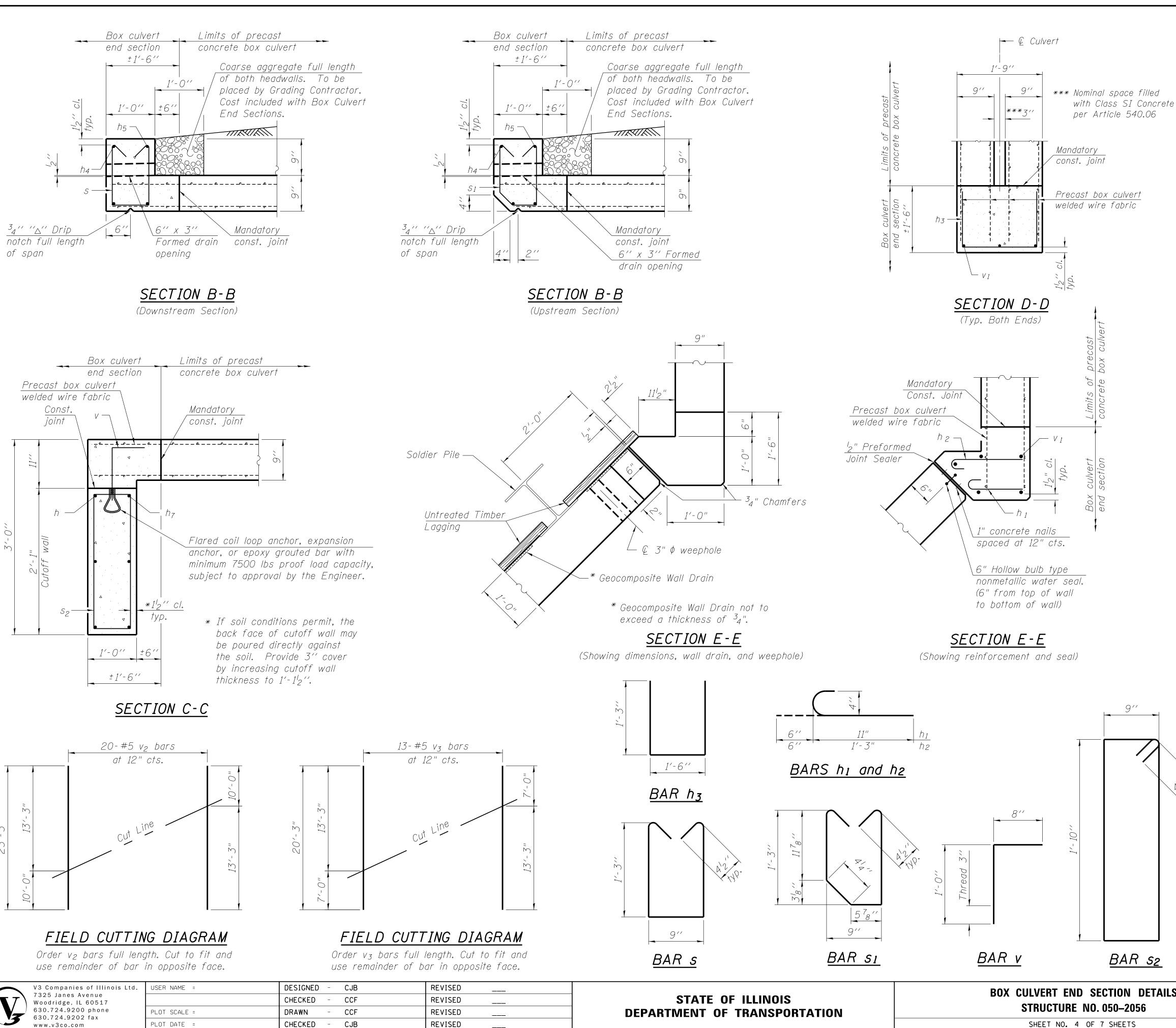


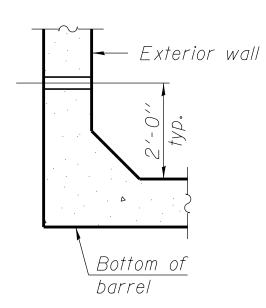
\* See sheet 4 of 7 for Field Cutting Diagram..

(Showing reinforcement. Piles not shown for clarity)

COUNTY TOTAL SHEET NO.

LASALLE 69 36 V3 Companies of Illinois Ltd. USER NAME = DESIGNED CJB REVISED SECTION **BOX CULVERT END SECTION DETAILS** 7325 Janes Avenue **STATE OF ILLINOIS** CHECKED CCF REVISED Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax (110) BR-3 **STRUCTURE NO. 050–2056** PLOT SCALE = DRAWN CCF DEPARTMENT OF TRANSPORTATION REVISED CONTRACT NO. 66B19 PLOT DATE = CHECKED CJB REVISED SHEET NO. 3 OF 7 SHEETS ILLINOIS FED. AID PROJECT





### DRAIN DETAIL

Provide 3" \$\phi\$ drain holes in exterior walls at ±8' cts. See Article 503.11 of the Standard Specifications.

# ONE END SECTION BILL OF MATERIAL

(For information only)

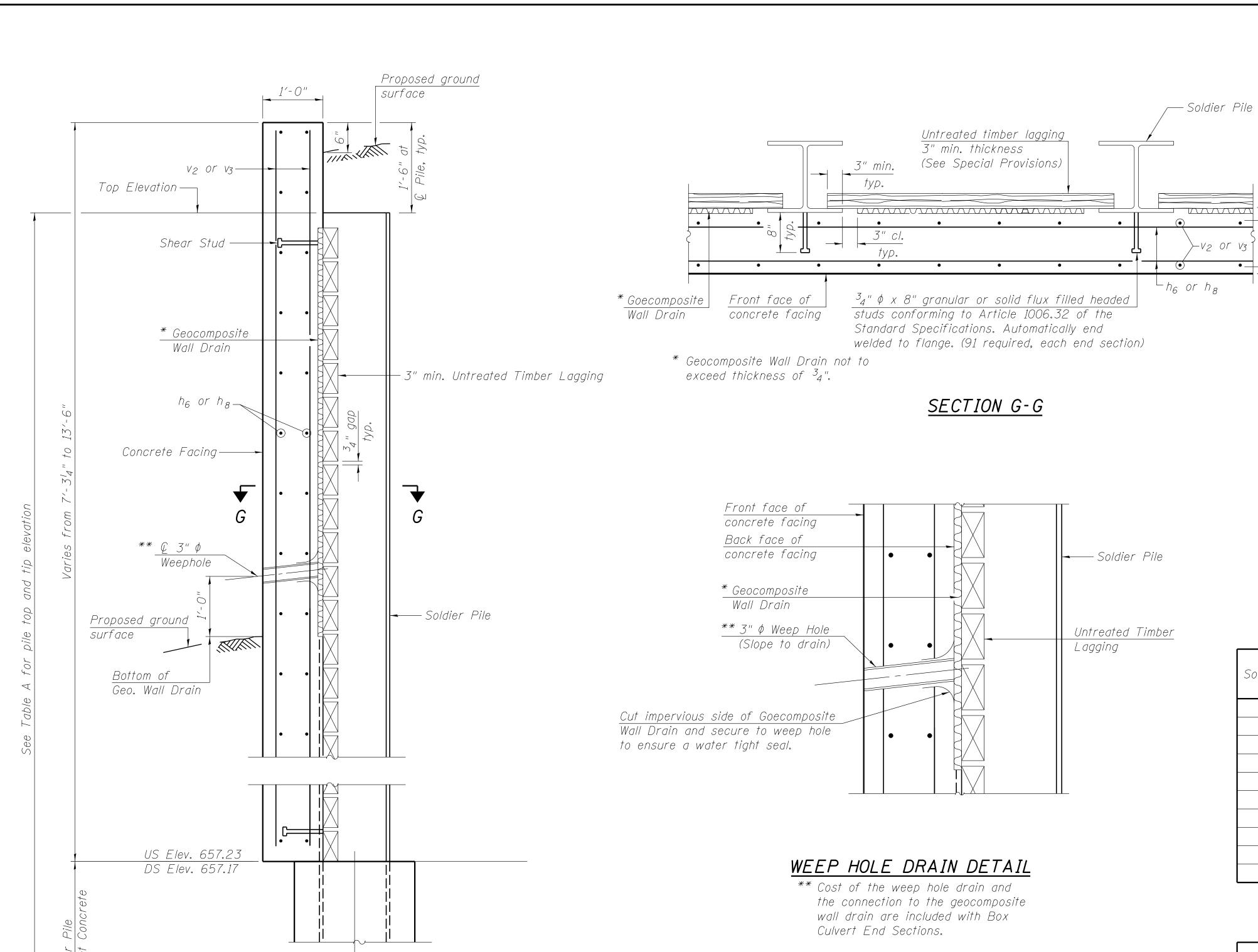
	Bar	No.	Size	Length	Shape
	h	3	#5	21'-6"	
	$h_1$	28	#4	1'-5"	
	h2	28	#4	1'-9"	
	hз	9	#4	4'-0"	
	h 4	2	#6	21'-6"	-
	h 5	2	#6	22'-10"	
	h6	28	#5	19'-3"	
	h 7	3	#5	22'-10"	
	h <sub>8</sub>	28	#5	11'-9"	
K	S	20	#4	4'-0"	Ŭ
K	S <sub>1</sub>	20	#4	3'-10"	Ŭ
	S 2	20	#4	5'-11"	
	V	20	#5	1'-8"	
	V 1	13	#5	10'-4"	
	V 2	20	#5	23'-3"	
	V 3	13	#5	20'-3"	
		te Struc	tures	Cu. Yd.	13.2
	Stud Si			Each	91
	Connect				
		cement	Bars	Pound	2,330
	Bar Sp			Each	10
		ning Sold		Foot	248
		HP Secti			
	9	and Se		Cu. Ft.	456
		Piles (ii			, 0 0
		ed Timb	er	Sq. Ft.	346
	Lagging		0 1		
		te Box		Cu. Yd.	5.7
		posite V	Vall	Sq. Yd.	10
	Drain			- 7	
O #			م میں ان م	for oach	

\*\* Only s or  $s_1$  bars are required for each end section.

The above pay items will not be measured for payment but shall be included in the contract unit price each for Box Culvert End Sections of the culvert number specified.

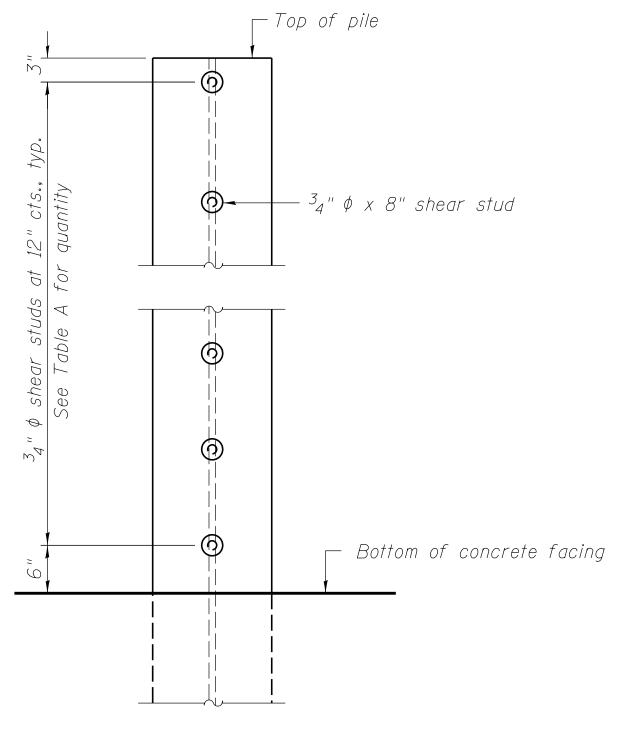
**BOX CULVERT END SECTION DETAILS** SHEET NO. 4 OF 7 SHEETS

COUNTY TOTAL SHEET NO. LASALLE 69 37 SECTION (110) BR-3 CONTRACT NO. 66B19 ILLINOIS FED. AID PROJECT



### *Note:*

The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.



# SHEAR STUD DETAIL

(Elevation of Pile Shown)

# TABLE A

(Upstream)

Soldier Pile	Pile Size	Top Elevation (ft.)	Bottom Elevation (ft.)	Total Height (ft.)	Number of Shear Studs
1	HP 14 x 117	668.98	641.7	27.28	12
2	HP 14 x 117	668.32	641.7	26.62	12
3	HP 14 x 117	667.66	641.7	25.96	11
4	HP 14 x 117	667.00	641.7	25.30	11
5	HP 14 x 117	666.34	641.7	24.64	10
6	HP 8x36 (min.)	665.32	647.6	17.72	
7	HP 14 x 117	668.98	641.7	27.28	12
8	HP 14 x 117	668.30	641.7	26.59	12
9	HP 14 x 117	667.62	641.7	25.92	11
10	HP 8x36 (min.)	666.60	646.6	20.20	

# TABLE A (Downstream)

Soldier Pile	Pile Size	Top Elevation (ft.)	Bottom Elevation (ft.)	Total Height (ft.)	Number of Shear Studs
1	HP 14 x 117	668.92	641.6	27.31	12
2	HP 14 x 117	668.26	641.6	26.66	12
3	HP 14 x 117	667.60	641.6	26.00	11
4	HP 14 x 117	666.94	641.6	25.34	11
5	HP 14 x 117	666.28	641.6	24.68	10
6	HP 8x36 (min.)	665.26	647.6	17.66	
7	HP 14 x 117	668.92	641.6	27.31	12
8	HP 14 x 117	668.24	641.6	26.64	11
9	HP 14 x 117	667.56	641.6	25.96	11
10	HP 8x36 (min.)	666.54	646.3	20.24	

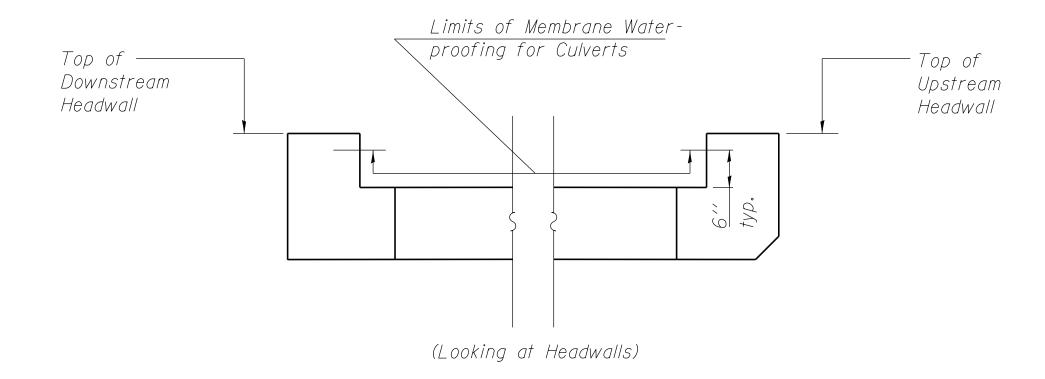
# SECTION F-F

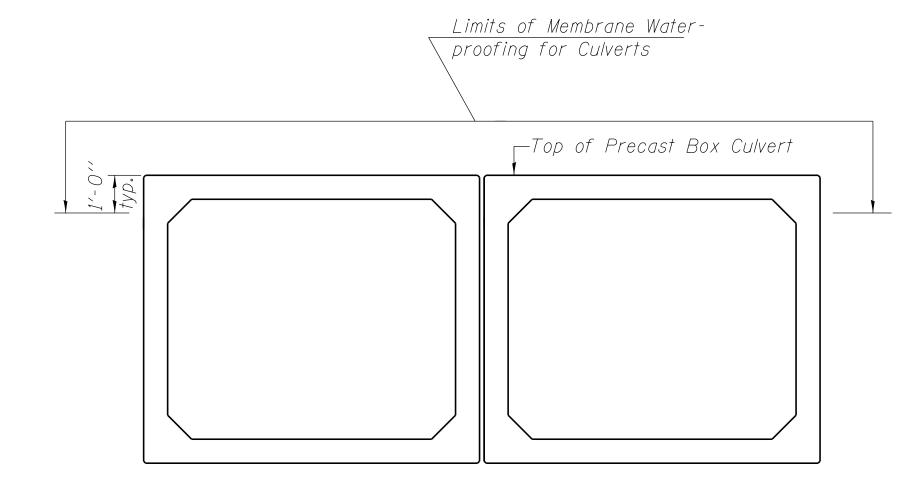
Bottom Elevation—

24" ø

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT END SECTION DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 050-2056	786	(110) BR-3	LASALLE	69	38
STRUCTURE NO. 030-2030	,		CONTRAC	T NO. 6	66B19
SHEET NO. 5 OF 7 SHEETS		ILLINOIS FED. AI	D PROJECT		





(Looking at Box Sections)

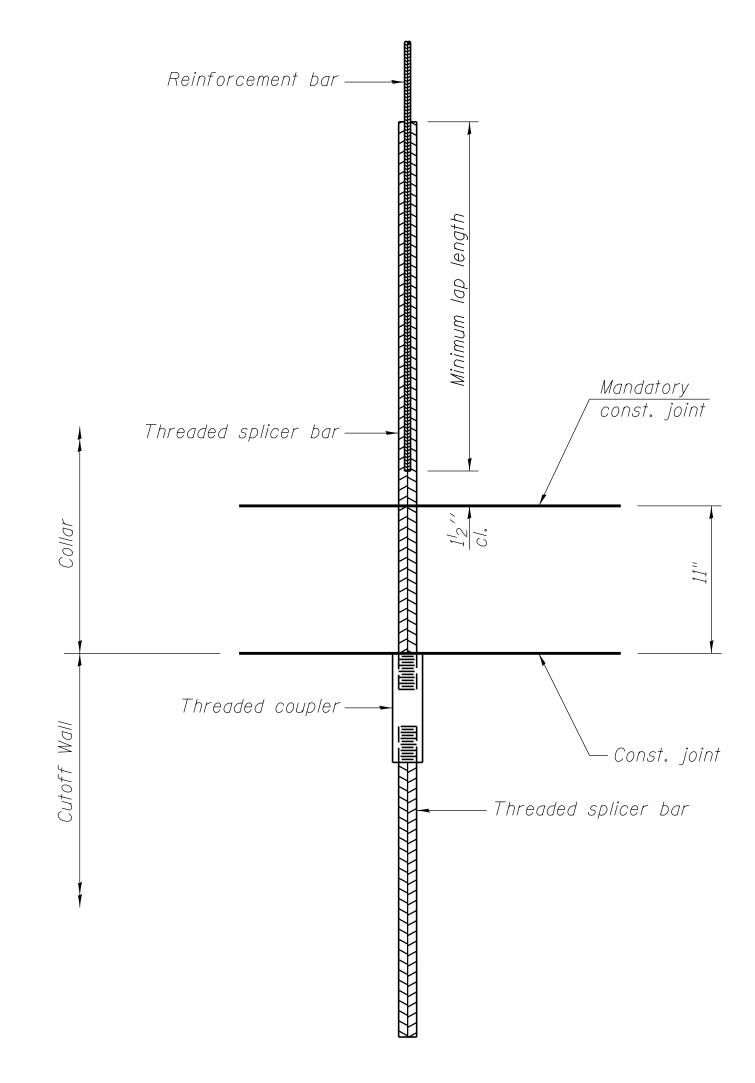
# LIMITS OF MEMBRANE <u>WATERPROOFING</u> FOR CULVERTS

Note: Membrane Waterproofing for Culverts shall cover top of the top slab, top one foot of side walls, and 6 inches up inside face of the headwalls.

## <u>NOTES</u>

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

All reinforcement shall be lapped and tied to the splicer bars. See approved list of bar splicer assemblies and mechanical splicers for alternatives.



## BAR SPLICER ASSEMBLY FOR BOX CULVERT END SECTION

	Minimum Lap Lengths													
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6								
3, 4	1'-5''	1'-11''	2'-1''	2'-4''	2'-7''	2'-11''								
5	1'-9''	2'-5''	2'-7''	2'-11''	3'-3''	3'-8''								
6	2'-1''	2'-11''	3'-1''	3'-6''	3'-10''	4'-5''								
7	2'-9''	3'-10''	4'-2''	4'-8''	5'-2''	5′-10′′								
8	3'-8''	5'-1''	5′-5′′	6'-2''	6'-9''	7′-8′′								
9	4'-7''	6'-5''	6'-10''	7'-9''	8'-7''	9'-8''								

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Class C

Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length +  $1\frac{1}{2}$ " + thread length

Location	Bar size	No. assemblies required	Table for minimum lap length
* Cutoff Wall	5	10	1

\* For one end section



USER NAME =	DESIGNED	-	CJB	REVISED
	CHECKED	_	CCF	REVISED
PLOT SCALE =	DRAWN	_	CCF	REVISED
PLOT DATE =	CHECKED	_	CJB	REVISED

BAR SPLICER ASSEMBLY DETAILS AND WATERPROOFING LIMITS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 050-2056	786	110BR-3	LASALLE	69	39
3111001011E NO. 030-2030			CONTRAC	T NO.	66B19
SHEFT NO. 6 OF 7 SHEFTS		ILL INOIS FED	VID PROJECT		

(P)	Illinois Departmen of Transportation
	Division of Highways
	ILLINOIS DOI

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

	Division of Highways LLINOIS DOT								-		Date	6/	5/12
ROUTE	IL 170 (FAP 786)	DE	SCRI	PTION	IL	170 ov	er a Stream, 6.98 miles	South of US 6	<u> </u>	OGGE	D BY	Larry	Myen
SECTION	(110)BR-1,2,3	<u> </u>	_ ι	OCAT	ION _	NE 1/4	, SEC. 26, TWP. 32N, F	RNG. 5E					
COUNTY	LaSalle DI	RILLING	MET	HOD		Но	llow Stem Auger	_ HAMMER T	YPE		CME A	utoma	tic
STRUCT. NO. Station  BORING NO. Station	050-0156 (Exist.) 369+42 (Exist.) 1 (N.W. Quad.) 369+18	) <u> </u>	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter	660.75 660.58	ft ft	D E P T H	B L O W S	U C S Qu	M O I S T
Offset	13.00ft Rt.						Upon Completion	641.5	ft 💆				
Ground Surfa		ft	(ft)	(/6")	(tsf)	(%)	After Hrs.		ft	(ft)	(/6")	(tsf)	(%)
Silty Clay Loar	ulder Stone, Black m Fill, Brown Sand & n Large Gravel Pieces						Very Stiff Gray Clay Ti of Clay & Minor Silt (ca				3 4 5	3.2 S	29.4
acca Proum	Sand & Gravel Fill	668.97		4							3		
	avel Pieces & Silty			3 3		10.0					3	3.0 P	27.
									646.97			'	
Stiff Black Silh	y Clay Loam Topsoil	666.47	-5	2			Hard/Very Stiff Brown Clay Loam Till	ish Gray Silty		-25	5		
oun black only	y Ciay Loaiii Topsoii			1	1.5 P	39.0				_	7	4.1	16.
		664.47	_	3	P					_	9	В	
/ledium Brow	n Silty Clay Loam Till	004.47											
				2	0.8	26.4					<u>4</u> 5	3.7	20.4
				2	P						8	В	
Hard Brown S	Silty Clay Loam Till	661.97		1 .					7	 <u>⊽-30</u>	г		
				3 5	4.0 S	18.3				_	5 7 9	3.9	19.0
		659.47		5	3						9	В	
Hard Gray Silt Sand/Gravel F	ty Clay Loam Till with Pockets at 16'	000111		3									
				6 9	4.3 S	15.1							
			<u>-15</u>	6	>4.5	10.8				- <u>35</u>	6	4.1	18.9
				11	P P	10.8	End of Boring		634.97		8	4.1 B	10.
			<u>▼</u>	_			End of Borning						
				5 7	4.1	22.0							
		GE4 07		9	В								
		651.97				1							

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

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE IL 170 (FAP 786)	DESC	RIPTION	l <u>IL</u>	170 ov	er a Stream, 6.98 miles Sou	th of US 6	_ LO	GGE	D BY	Larry	Mye
<b>SECTION</b> (110)BR-1,2,3		LOCAT	ΓΙΟΝ	NW 1/	4, <b>SEC</b> . 25, <b>TWP</b> . 32N, <b>RNG</b>	i. 5E					
COUNTY LaSalle DRILLI	ING M	ETHOD		Но	llow Stem Auger H	AMMER TY	PE _	С	ME A	utoma	tic
	C E F T H	L O W I S	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. Stream Bed Elev.  Groundwater Elev.: First Encounter Upon Completion After Hrs.	f	t t ▼ t ∑	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T
Augered Shoulder Stone, Black Silty Clay Loam Fill and Brown Sand & Gravel Fill					Hard Gray Silty Clay Loam Layers of Gray Silt at 16' - (continued)	Till with 17'	_	_	3 4 6	4.1 S	17.
669 Stiff Black Silty Clay Loam Topsoil - Top 2' possible Fill	).11_ 	2 2 2	1.5 P	28.0			_		3 5 6	4.3 S	13.
	-	-5 2 2	1.5 P	27.8	Hard Brownish Gray Silty C Loam Till		- 4 <u>7.11</u> - -	-25	4 6 8	4.4 S	15.
664 Very Stiff Brown & Gray Silty Clay Loam Till	.61	1 2 3	3.6 B	21.2			-		6 6 9	4.7 S	16.
		3 4	3.4	20.0	Very Stiff Gray Clay Till	64	- 42.11 ∑	7-30	3	3.4	20.
659 Hard Gray Silty Clay Loam Till with Layers of Gray Silt at 16' - 17'	 1.61 	6 4	В				_		6	В	
	- - -	8 10	4.7 S	15.4			_	-35			
		5 9 16	5.2 S	17.1	End of Boring	60	- 35.11		4 5 5	3.6 B	21.
	<u></u>	9 7 9	4.6 S	17.9			_				
	-	20					_	<b>-</b> 40			

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

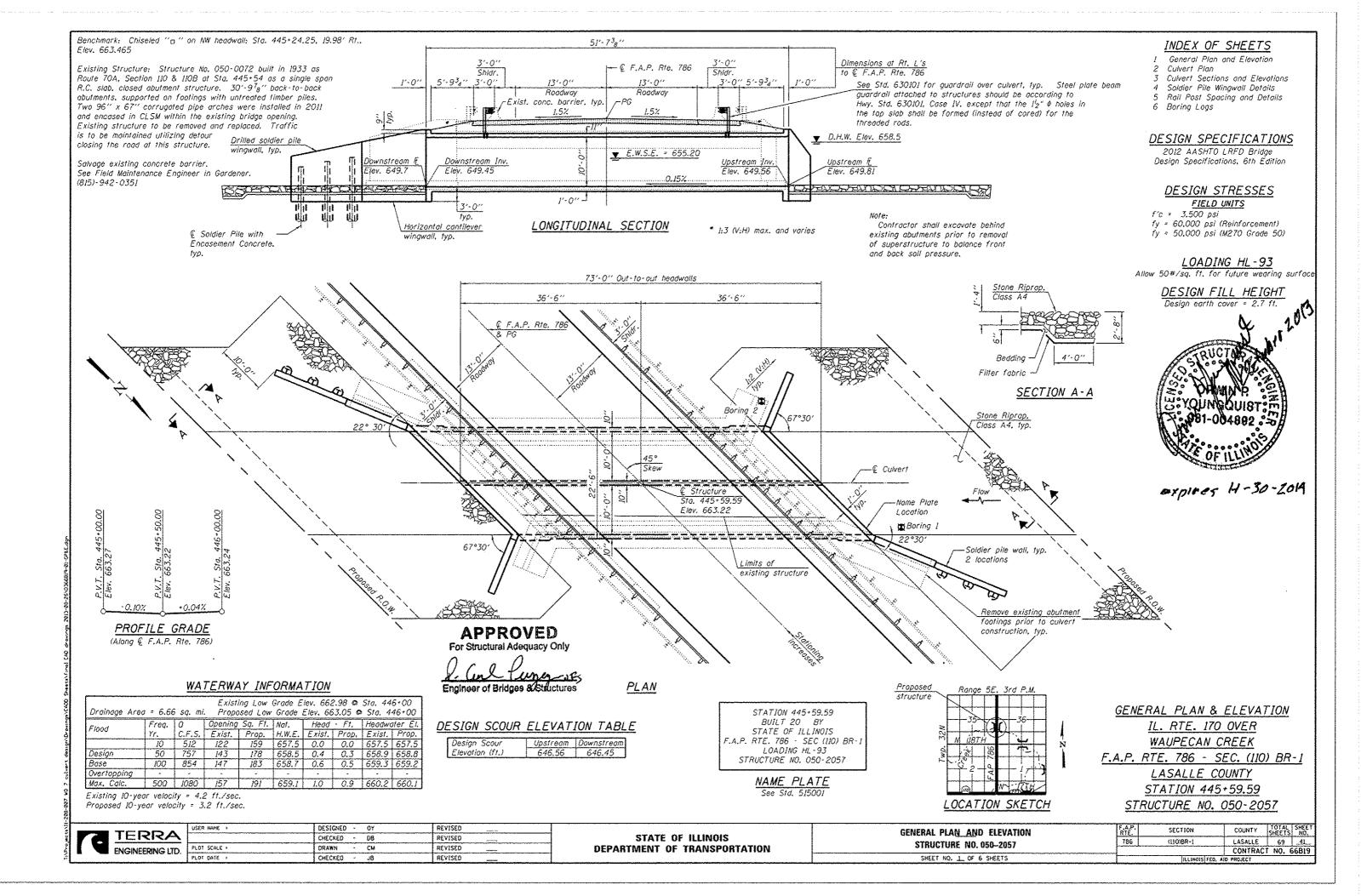
BBS, form 137 (Rev. 8-99)

	V3 Companies of Illinois Ltd.
	7325 Janes Avenue
	Woodridge, IL 60517
	630.724.9200 phone
\ \\	630.724.9202 fax
	www.v3co.com

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE!
STRUCTURE NO. 050-2056	786	(110) BR-3	LASALLE	69	40
31110C1011L 140. 030-2030			CONTRAC	T NO. 6	66B1
SHEET NO. 7 OF 7 SHEETS		ILLINOIS FED. A	D PROJECT		



### TOTAL BILL OF MATERIAL TOTAL 564 Sq. Yd. Stone Riprap, Class A4 Sq. Yd. 564 Filter Fabric Each Removal of Existing Structures No. 3 Cu. Yd. 41.2 Structure Excavation 14.6 oncrete Structures Cu. Yd. typ. Each 54 Stud Shear Connectors Back Pound 53,970 Reinforcement Bars, Epoxy Coated Face Name Plates Cu. Yd. 227.0 Concrete Box Culverts € Rdwy.-- # v(E) bar Sq. Yd. 3.5 Geocomposite Wall Drain $(Each Corner) / h_3(E)$ or Cu. Ft. 537 Drilling and Setting Soldier Piles (In Soil) h8(E) bar Intreated Timber Lagging Sq. Ft. 177 Foot 171 Furnishing Soldier Piles (HP Section) 14'-3" 12'-11'8" 36'-6" h<sub>8</sub> below barrel 173'-0" cut to fit as needed 76-#7 a(E) bars at 8" cts. Bottom 6"x3" Formed TOP SLAB Openina GENERAL NOTES 2-#8 h<sub>5</sub>(E) bars in 76-#7 a<sub>1</sub>(E)bars at 8" cts. Top 1. Reinforcement bars designated (E) shall be epoxy coated. Top of headwall 2. Layout of the slope protection system may be varied to suit € Culvertground conditions in the field as directed by the Engineer. 3. The top of the box culvert shall be waterproofed according to Art. 503.18 of the Std. Specs. Cost included with Concrete Box Culverts. 76-#7 a<sub>1</sub>(E) bars at 8" cts. Bottom 4. Precast option is not allowed. 2-#8 h<u>5(E) bars</u> 2-#8 h<sub>5</sub>(E) bars ii Top of Bottom $h_I(E)$ BOTTOM SLAB Bottom of headwall $h_4(E)$ bars in 76-#7 a(E) bars at 8" cts. Top h<sub>6</sub>(E) bars below cutoff wall barrel cut to fit h<sub>6</sub>(E) or 34-#7 a(E) bars at 8" cts. Bottom of Top Slab h7(E) $h_3(E)$ or $h_7(E)$ -34-#7 a(E) bars at 8" cts. Top of Bottom Slab 34-#7 $a_1$ (E) bars at 8" cts. Top of Top Slab -h3(E) or h7(E) 34-#7 a<sub>I</sub>(E) bars at 8" cts. Bottom of Bottom Slab v<sub>1</sub> (E)-Cut a and $a_1$ bars to fit skew. Use balance of bar in opposite end. · 3<sub>4</sub> ′′∆ Drip Notch AT UPSTREAM END 24" Ø Drilled **SHOWING SHOWING** h<sub>6</sub>(E) or h<sub>8</sub>(E)-Soldier Pile typ. 3'' x 6'' Formed Coarse aggregate full length **OUTLINES** REINFORCEMENT Opening of both headwalls. To be 1'-0'' placed by Grading Contractor. Back PLAN Cost included with Concrete Face Box Culverts. -h3(E) or h7(E) $h_6(E)$ or $h_8(E)$ $^{3}\!_{4}^{\prime\prime}$ $\triangle$ <u>Drip Notch</u> For section B-B, see sheet 4 of 6. v<sub>1</sub> (E)-Full length of Span For bar details, see sheet 3 of 6. A distance of half the length of the wingwall but not AT DOWNSTREAM END less than six feet of the barrel shall be poured monolithically with the wingwalls. DRAIN DETAIL SECTION A-A

SECTION

(110)BR-1

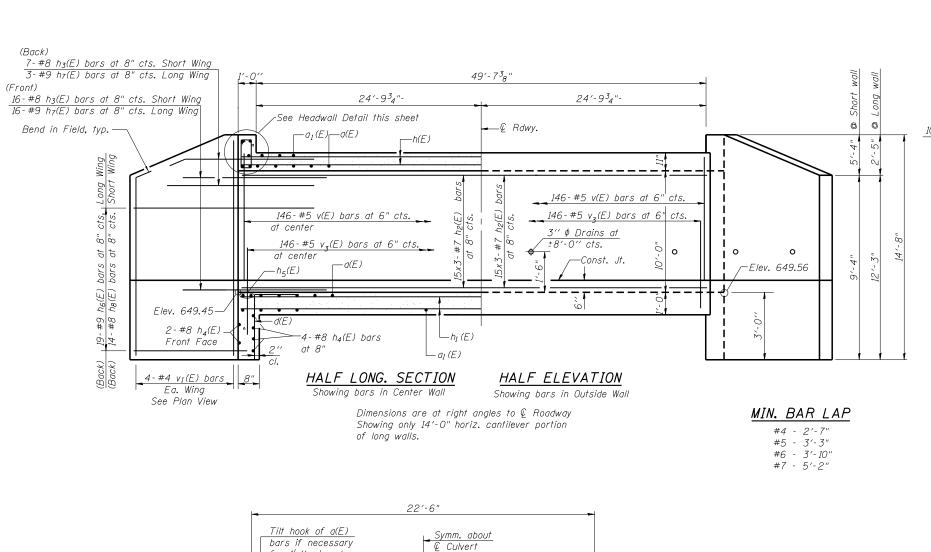
786

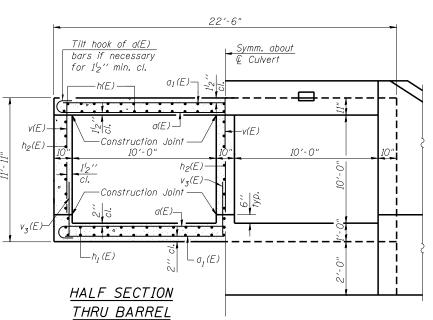
COUNTY

LASALLE 69 42

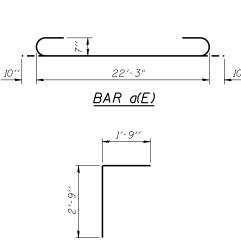
CONTRACT NO. 66B19

### USER NAME = DESIGNED - OY REVISED **CULVERT PLAN** TERRA STATE OF ILLINOIS CHECKED - DB REVISED STRUCTURE NO. 050-2057 ENGINEERING LTD. СМ REVISED **DEPARTMENT OF TRANSPORTATION** SHEET NO. 2 OF 6 SHEETS CHECKED - JB REVISED

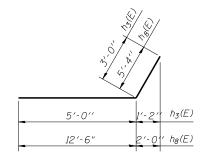




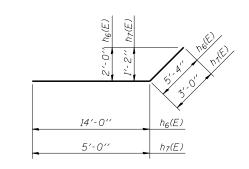
HALF END ELEVATION



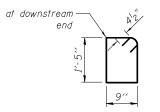
BAR d(E)

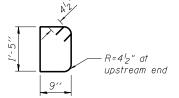


### BARS h3(E) & h8(E)

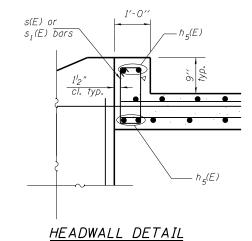


BARS h6(E) & h7(E)





BAR s(E) BAR s1(E)



## BILL OF MATERIAL - SHEETS 3 & 4 OF 6

2	<u>HEEIS</u>	3 & 4	7 UF 6	
Bar	No.	Size	Length	Shape
a(E)	220	#7	23'-11''	
a <sub>1</sub> (E)	220	#7	22'-3"	
d(E)	46	#4	4'-6''	
h(E)	138	#6	26′-10′′	
h1(E)	114	#5	26′-5′′	
h <sub>2</sub> (E)		#7	27'-8''	
hʒ(E)	46	#8	8'-0''	
h4(E)		#8	29′-6′′	
h5(E)		#8	29′-6′′	
h6(E)		#9	19'-4''	_
h7(E)	38	#9	8'-0''	_
h <sub>8</sub> (E)	28	#8	17′-10′′	_
hg(E)	56	#5	15′-3′′	
v(E)	442	#5	10'-7"	
v1(E)	16	#4	14'-4''	
	64	#5	12'-0'	
ν3(E)	442	#5	4'-6"	
s(E)	30	#4	5'-1' 5'-0''	<u> </u>
s1(E)	30	#4	5′-0′′	Ü
			Cu. Yd.	41.2
			Cu. Yd.	227.0
h1(E)       114       #5         h2(E)       135       #7         h3(E)       46       #8         h4(E)       12       #8         h5(E)       12       #8         h6(E)       38       #9         h7(E)       38       #9         hg(E)       28       #8         hg(E)       56       #5         v(E)       442       #5         v2(E)       64       #5         v3(E)       442       #5         s(E)       30       #4		•	Pound	53,970
			Cu. Yd.	14.6
			Each	54
		)rain	Sq. Yd.	3.5
			Cu. Ft.	537
			Sq. Ft.	177
		Piles	Foot	171
(HP Section	on)			

\* For Soldier Pile portion of wingwalls only.

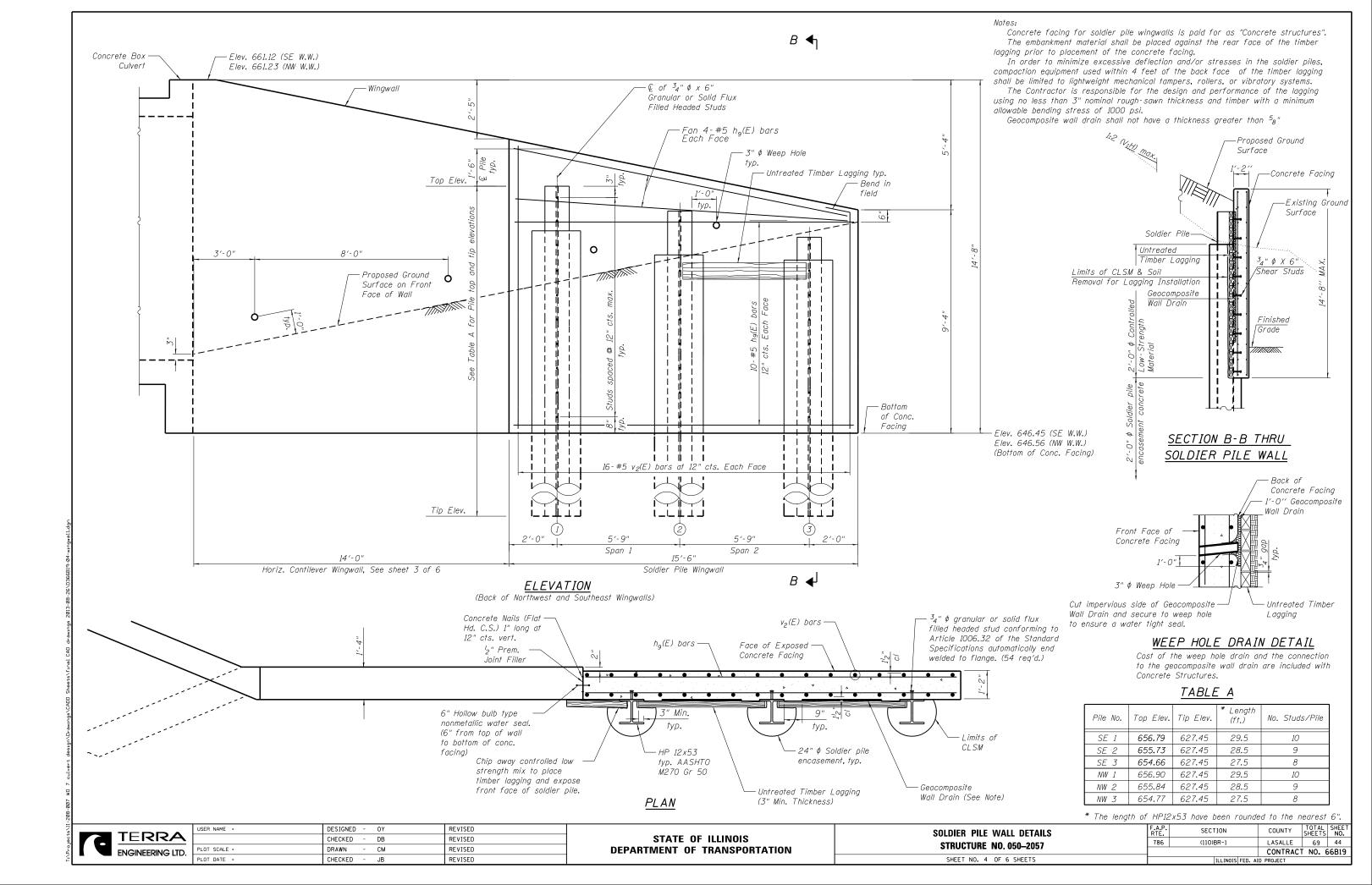
Notes:

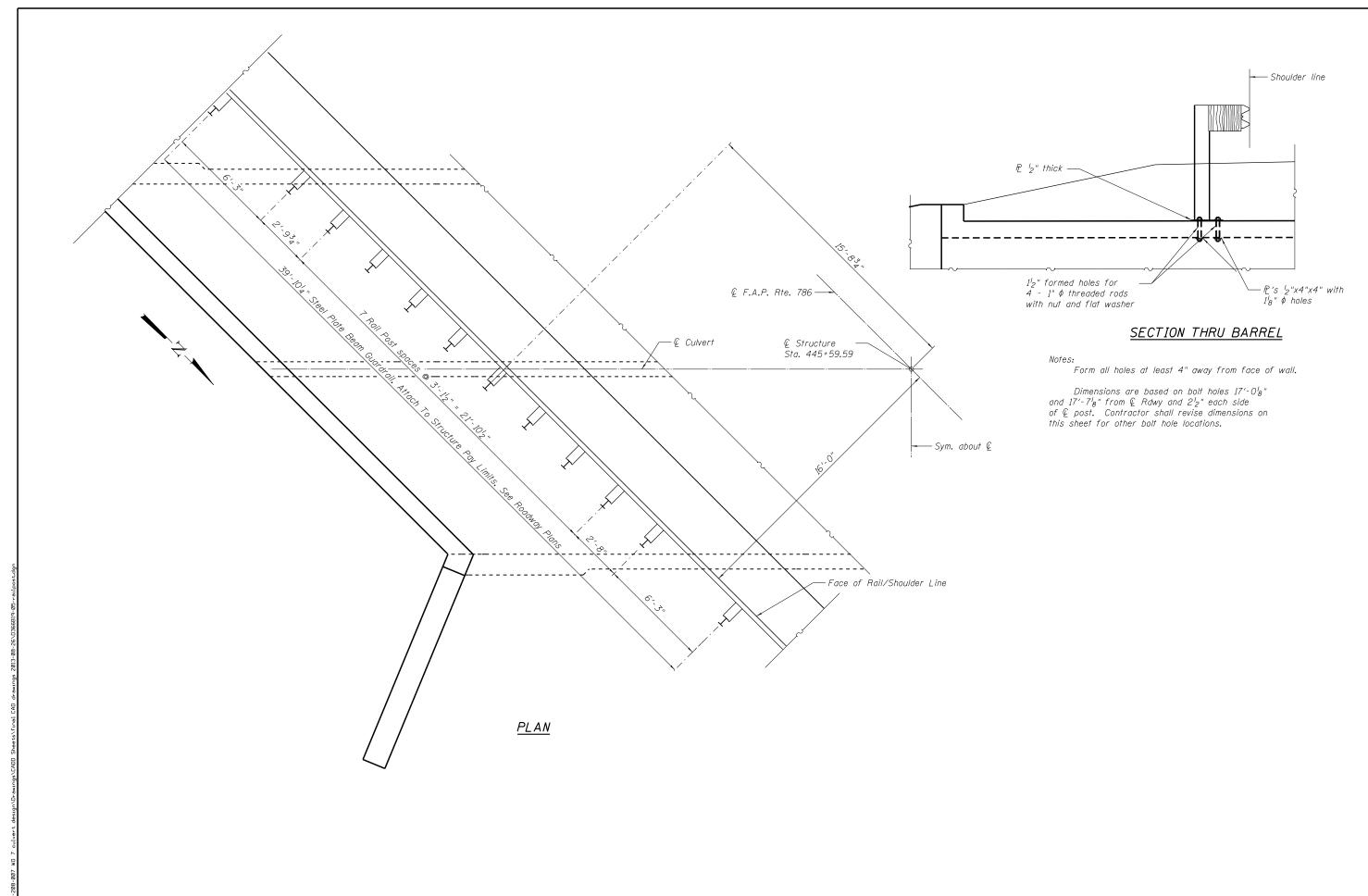
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.



USER NAME =	DESIGNED - OY	REVISED
	CHECKED - DB	REVISED
PLOT SCALE =	DRAWN - CM	REVISED
PLOT DATE =	CHECKED - JB	REVISED

Α.Ρ. ΓΕ.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
86	(110)BR-1	LASALLE		69	43
			CONTRACT	NO. 6	6B19
TE. SECTION C. 86 (110)BR-1 LA		D PROJECT			





TERRA ENGINEERING LTD.

USER NAME =	DESIGNED	-	OY	REVISED
	CHECKED	-	DB	REVISED
PLOT SCALE =	DRAWN	-	СМ	REVISED
PLOT DATE =	CHECKED	-	JB	REVISED

 POST Struc				-		DETAILS 2057
SHEET	NO.	5	OF	6	SHEE	TS

	ILL INOIS	FFD AII	D PROJECT		
			CONTRACT	NO.	56B19
786	(110)BR-1		LASALLE	69	45
F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.

(P)	Illinois Department of Transportation
	Division of Highways

### **SOIL BORING LOG**

Page <u>1</u> of <u>1</u>

Date 6/6/12

IL 170 (FAP 786)	DESCRIPTION	IL 170 over a Stream, 8.33 miles South of US 6	LOGGED BY	Larry Myers

ROUTE	IL 170 (FAP 786)	DES	SCRI	PTION	IL	170 ov	er a Stream, 8.33 mile	es South of US 6	LOGG	ED BY	Larry	Myers
SECTION	(110)BR-1,2,3	3	L	.OCAT	ION _	SE 1/4	, SEC. 35, TWP. 32N.	RNG. 5E				
COUNTY	LaSalle Di	RILLING	MET	HOD	_	Но	llow Stem Auger	HAMMER TY	PE	CME A	utoma	tic
Station	050-0072 (Exist.) 445+54 (Exist.)		D E P	B L O	U C S	M O 1	Surface Water Elev. Stream Bed Elev.		t E	ВЬО	U C S	M 0 1
Station Offset	1 (N.W. Quad.) 445+16 31.00ft Rt. ace Elev. 656.99	_	H (ff)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	625.0 f	t ☑	W S (/6")	Qu (tsf)	S T (%)
Augered Blac	k Silty Clay Loam	11.	.(14)	(10)	(131)	(70)	Very Stiff Gray Silty (	Clav Loam Till	(-4)	3	(10.7)	
Topsoil Fill			<u>.</u>				Very Monolithic & Ur (continued)	niform	·	4 5	3.0 B	21.1
		654.49							_			
Stiff Black Silt Fill	y Clay Loam Topsoil			4	1.3	26.7			=	3	2.7	21.0
Stiff Brown Si	lty Clay Loam Till	652.99	_	3	P.					5	В	
	.,		-5	3					-25	2		
			=	3	1.5 P	15.8			_	3	2.9 B	21.4
Very Stiff Brow	. Silt Class	649.99			,	,						-
Loam/Silty Lo	am Till		_	- 5			-			3		
			_	3 4	2.3 B	16.5			. <u>. <del></del> </u>	4 3	2.6 B	21.6
Very Stiff Gra Very Monolith	y Silty Clay Loam Till ic & Uniform	647.49	-10	4					-30	3		
				5 5	3.7 B	19.5			_	3 4	3.0 B	22.0
•			_	3	-			<i>.</i>	<u> </u>			
				4	3.2 B	19.8	; ;·		_			
			-15	2					-35	3		
		,	_	3 3 4	3.2 B	20.9			20.49	5	3.1 B	20.9
							End of Boring					
,			=	2	2.7	21.3			_			
				4	В							
			_						40			

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

BBS, form 137 (Rev. 8-99)



Very Stiff Gray Silty Clay Loam Till

### **SOIL BORING LOG**

Page <u>1</u> of <u>1</u>

3.1 20.0

5 3.1 21.9

5 B

Date \_\_\_6/6/12\_\_

12211070 001													
ROUTEIL 170 (FAP 786)	DE	SCRI	PTION	IL	170 ov	er a Stre	eam, 8.33 miles	s South of US 6	<u> </u>	OGGE	D BY	Larry	Myers
<b>SECTION</b> (110)BR-1,2,	3	l	LOCAT	ION _	SE 1/4	SEC. 3	5, <b>TWP.</b> 32N,	RNG. 5E					
COUNTY <u>LaSalle</u> D	RILLING	MET	THOD		Ho	ow Sten	n Auger	_ HAMMER T	YPE	. (	OME A	utoma	tic
STRUCT. NO.         050-0072 (Exist)           Station         445+54 (Exist.)		D E P	B L O	UCS	M 0 I			651.75 650.89		D E P	B L O	UCS	M O I
BORING NO. 2 (S.W. Quad.) Station 445+74	<del>_</del> .	H	S	Qu	S T	First I	dwater Elev.: Encounter		ft	Н	W S	Qu	S
Offset 29.00ft Rt. Ground Surface Elev. 656.95	ft	(ft)	(/6")	(tsf)	(%)	Upon After	Completion Hrs.	630.0	ft⊻ ft	(ft)	(/6")	(tsf)	(%)
Augered Black Silty Clay Loam							tiff Gray Silty C	lay Loam Till			3		
Topsoil Fill with Rip Rap @ Surface	9	_	1			(contin	ued)				4	. 3.1	23.0
			1								5	B,	
		_	1							_			
	654.45	_	1			:							
Stiff Black Silty Clay Loam Topsoil		_	1 1	ļ						_	3		- 1
Fill			2	1.5	27.7						4	3.1	19.4
		, —	3	P	2,.,					_	5	В	
	· <b>-</b>		<u> </u>	<del>  '  </del>						<del>.</del>			
Very Stiff Brown & Gray Silty Clay	652.45		-							_			
Loam Till		5	1							25	3		
Loantin			<u> </u>	0.4	04.0						3	3.0	18.3
			3	3.1	24.0				*.		_		10.3
			4	. B				,			6	В	
									7	<u>Z</u>			1
													!
			3							_ ·	3		
			4	4.0	19.0						. 4	3.0	19.5
		_	5	В							5	В	
		-	-	l.		1				_			

3 2.9 20.0 4 B 4 B End of Boring 3 3.1 21.1 5 B

3.1 20.3

В

3 2.7 22.3 4 B

-15

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

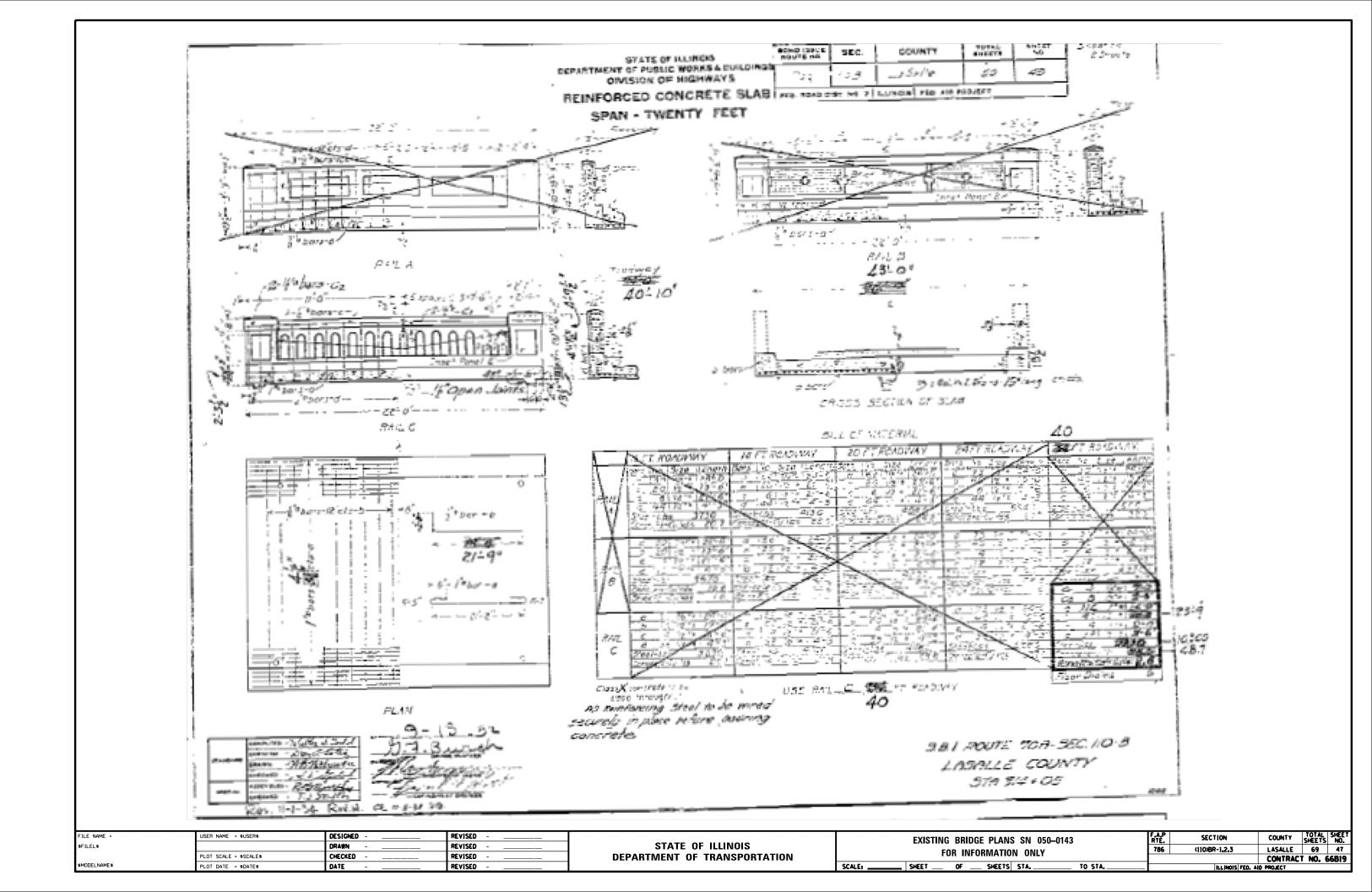
BBS, form 137 (Rev. 8-99)

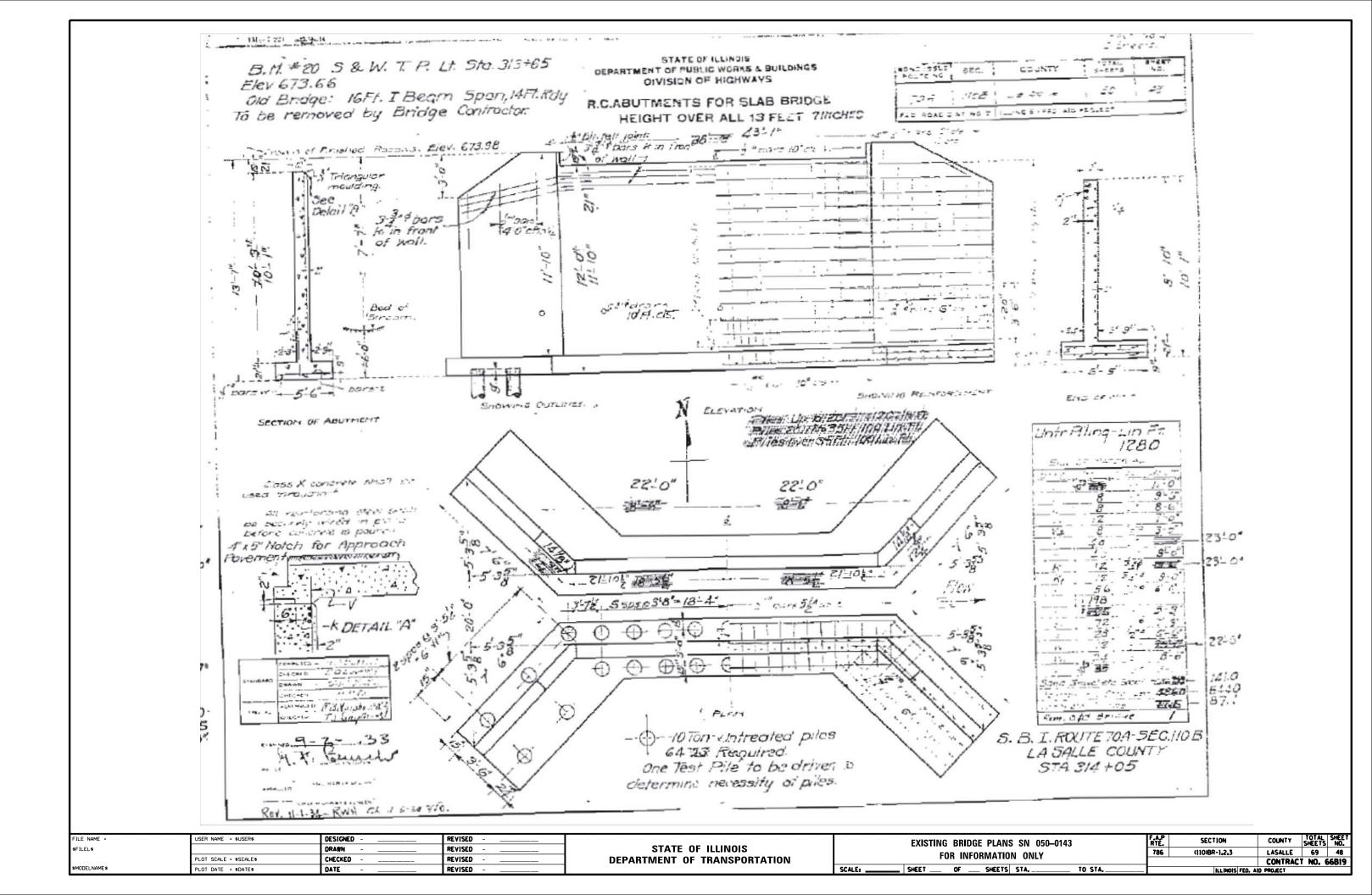
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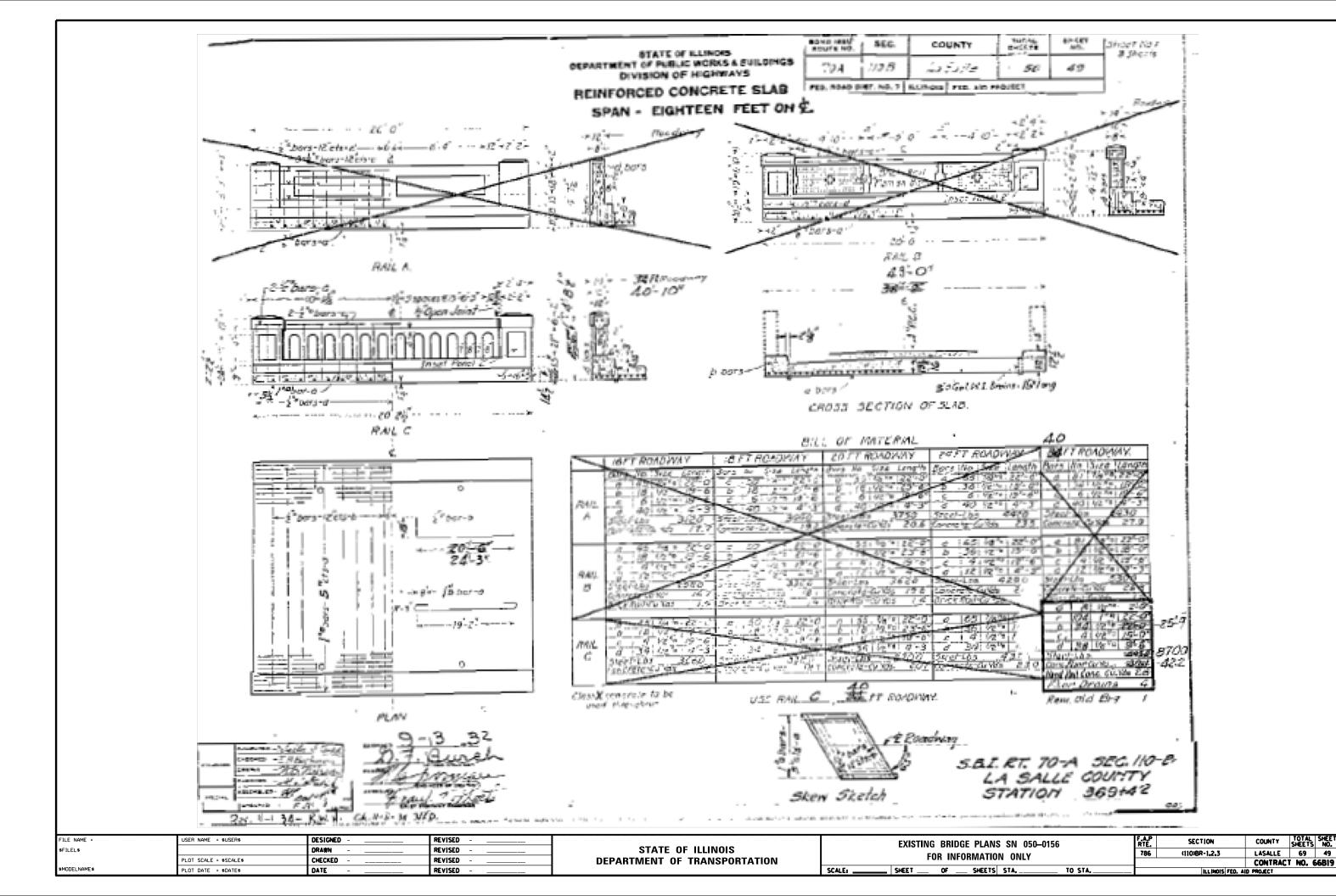


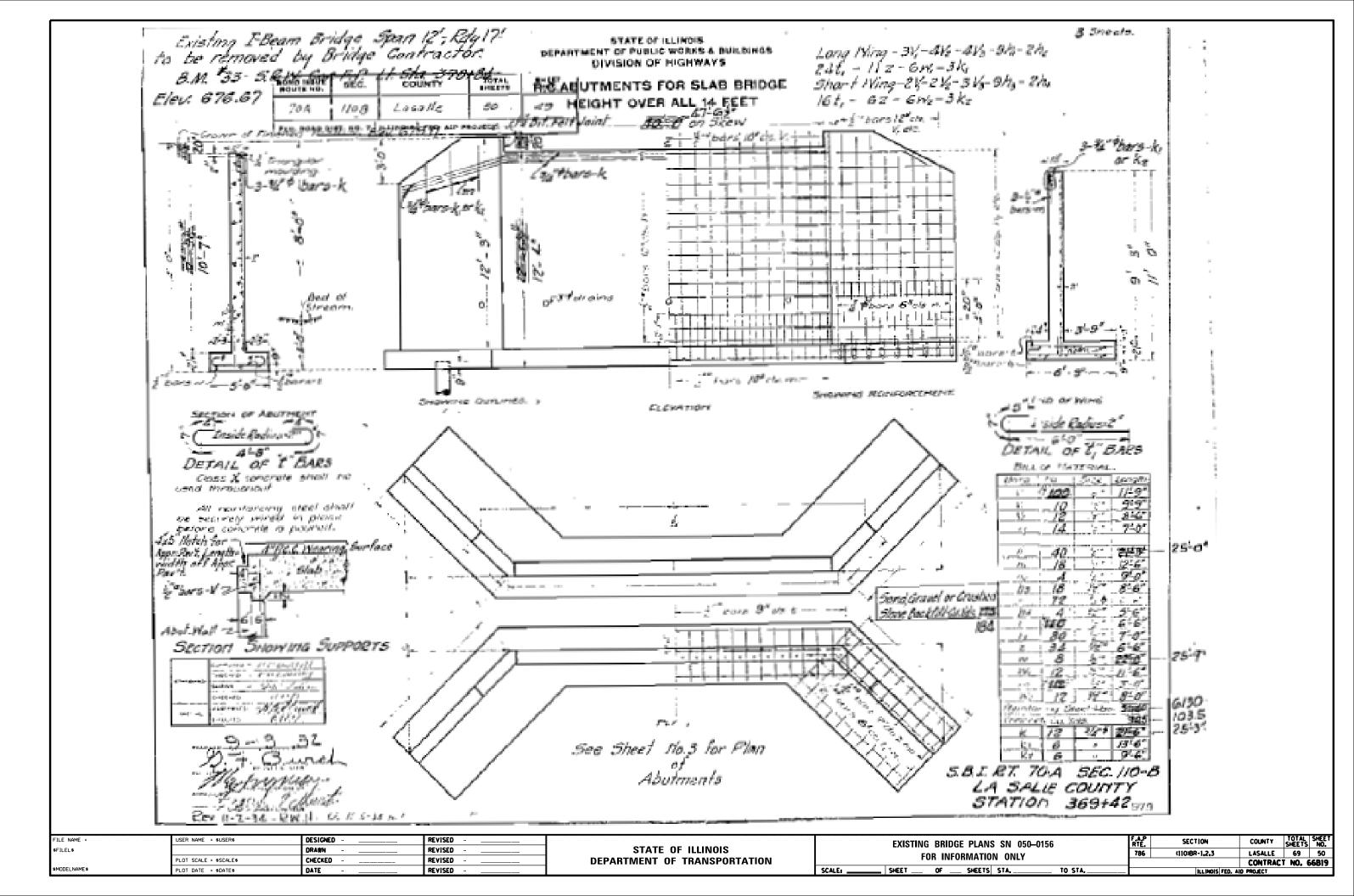
USER NAME =	DESIGNED -	OY	REVISED
	CHECKED -	DB	REVISED
PLOT SCALE =	DRAWN -	СМ	REVISED
PLOT DATE =	CHECKED -	JB	REVISED

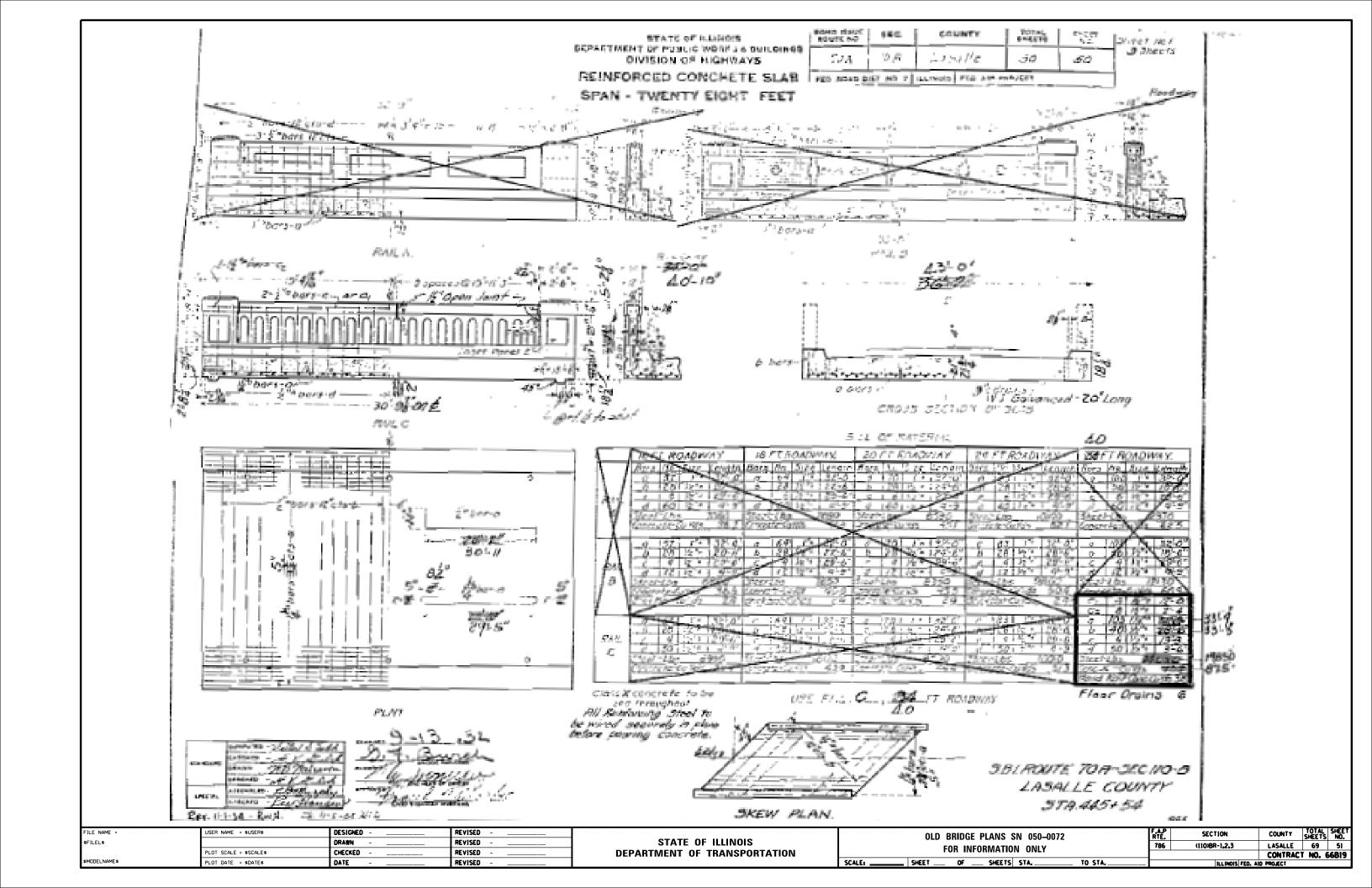
BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
STRUCTURE NO. 050-2057	786	(110)BR-1	LASALLE	69	46
3111001011L 140, 030-2037			CONTRAC	T NO.	66B19
SHEET NO. 6 OF 6 SHEETS		ILL INOIS FED. A	D PROJECT		

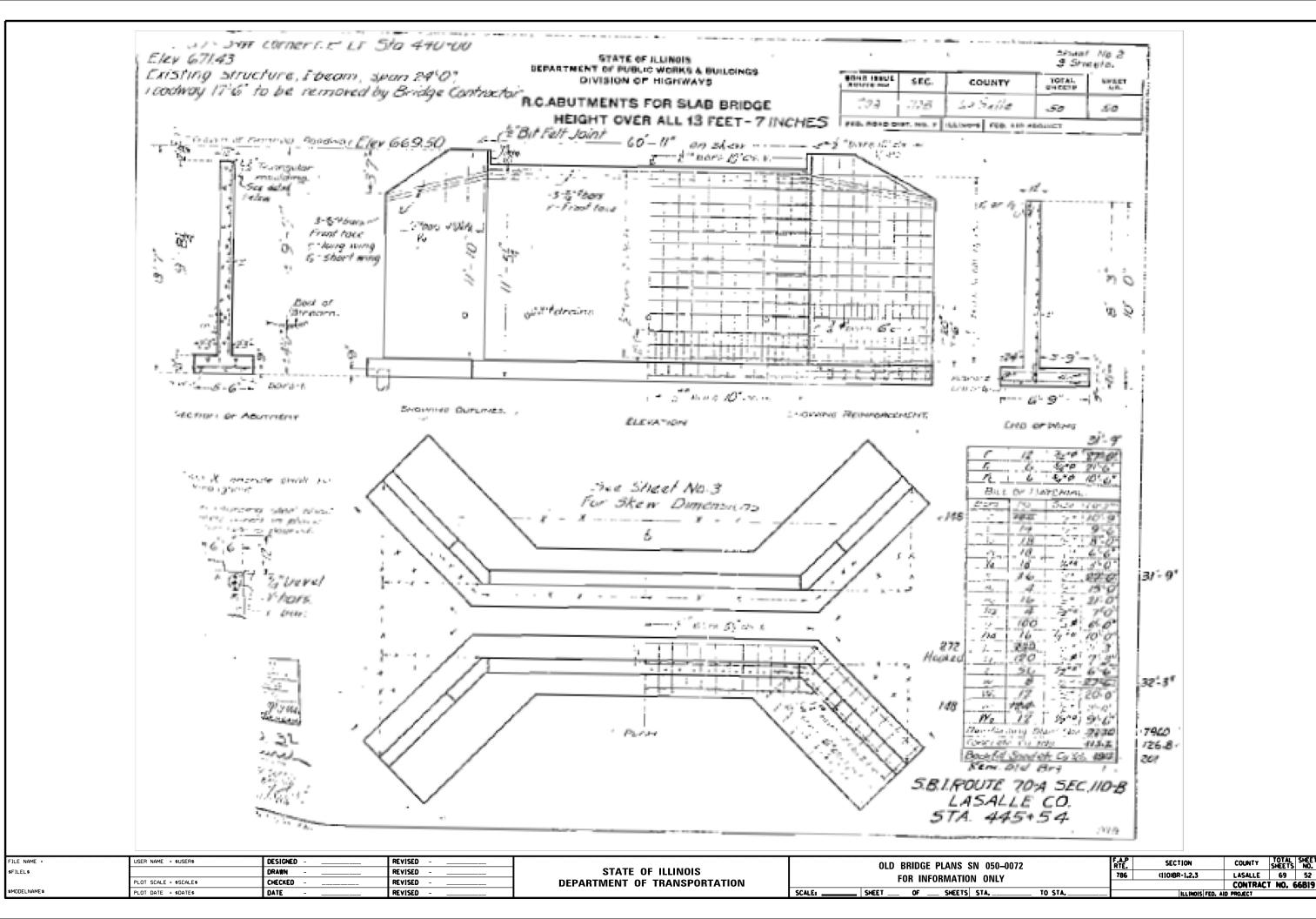


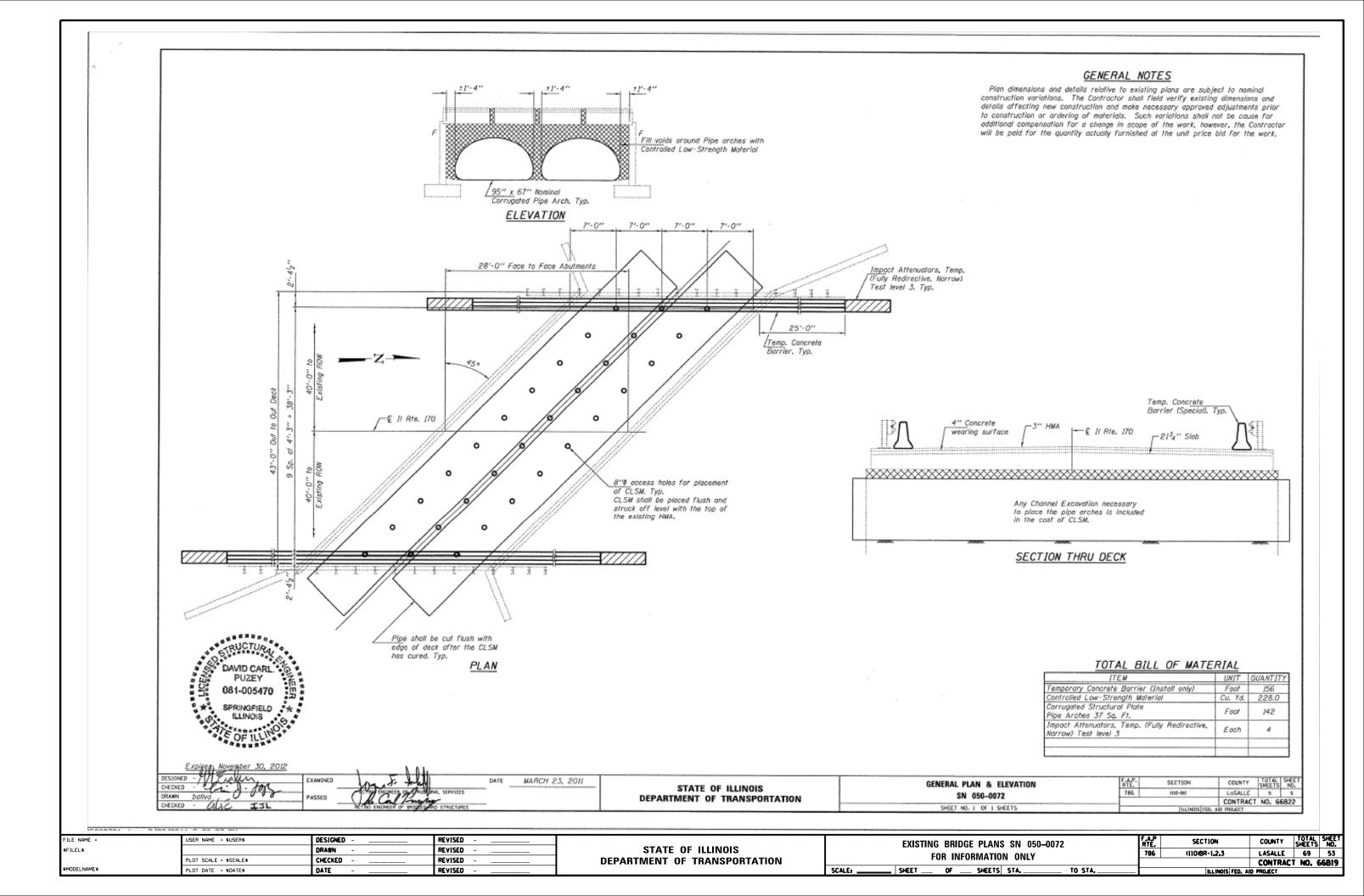


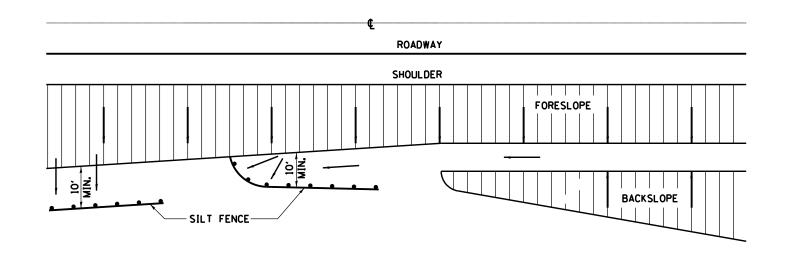


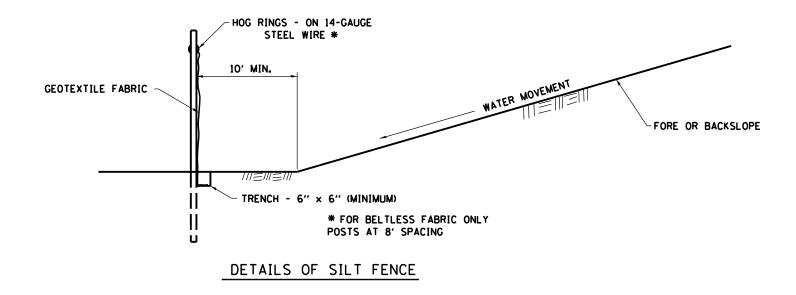




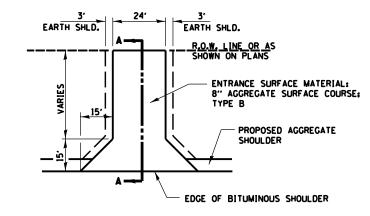


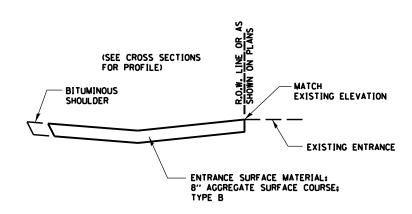




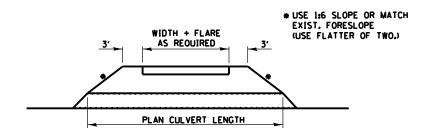


# FOR SILT FENCE



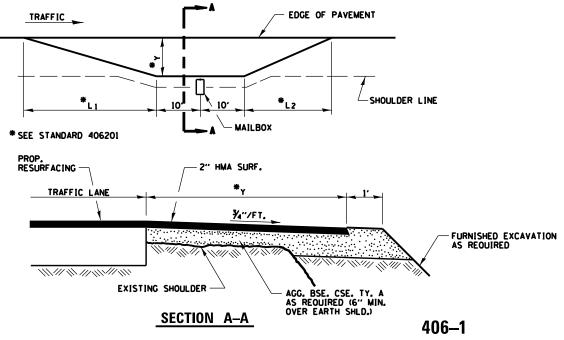


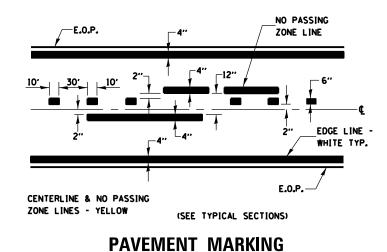
SECTION A-A



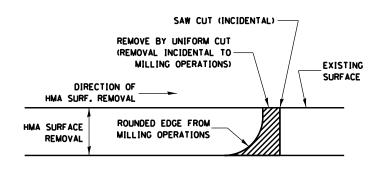
### FIELD ENTRANCE DETAIL

FILE NAME =	USER NAME = \$USER\$	DESIGNED	REVISED -			F.A.P RTE.	SECTION	COUNTY	TOTAL S SHEETS	EET
\$FILEL\$		DRAWN	REVISED -	STATE OF ILLINOIS	I DETAILS F		(110)BR-1-2-3	LASALLE		54
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	1 NO. 66	319
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE	REVISED -		SCALE: SHEET OF SHEETS STA, TO STA,		ILLINOIS FED. A	ID PROJECT		





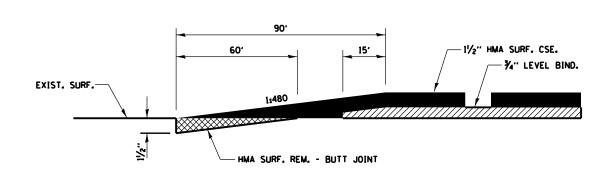
### RURAL MAILBOX TURNOUT DETAILS



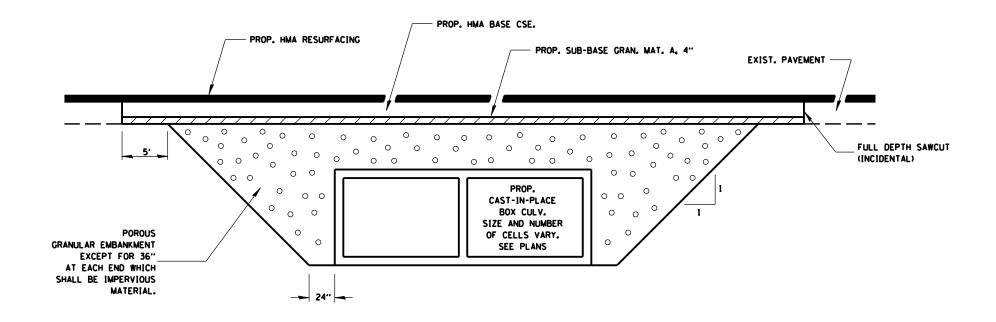
### NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE.
THEN A SAW CUT SHALL BE USED TO MANUFACTURE
A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.
THE ENGINEER SHALL BE THE SOLE JUDGE
CONCERNING THE USE OF THIS DETAIL

### HMA DETAIL AT BUTT JOINTS



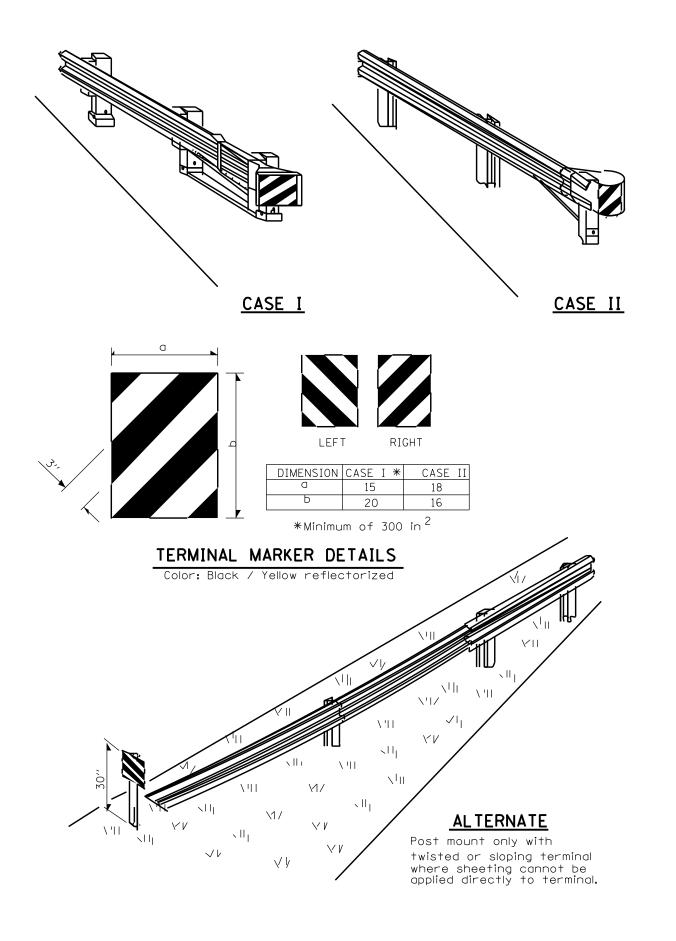
									4
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -			F.A.P RTE.	SECTION	COUNTY TOTAL SHEET	i
\$FILEL\$		DRAWN	REVISED -	STATE OF ILLINOIS	DETAILS	786	(110)BR-1-2-3	LASALLE 69 55	i
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 66B19	i
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE	REVISED		SCALE: SHEET OF SHEETS STA TO STA		ILL INOIS FED.	. AID PROJECT	i

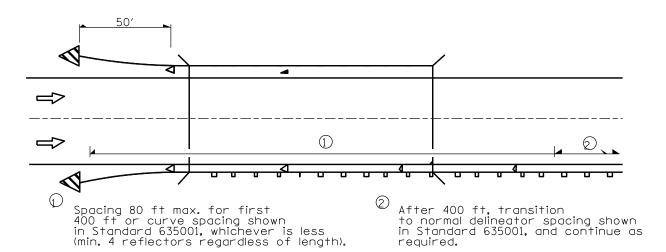


### SECTION THROUGH CAST-IN-PLACE BOX CULVERT

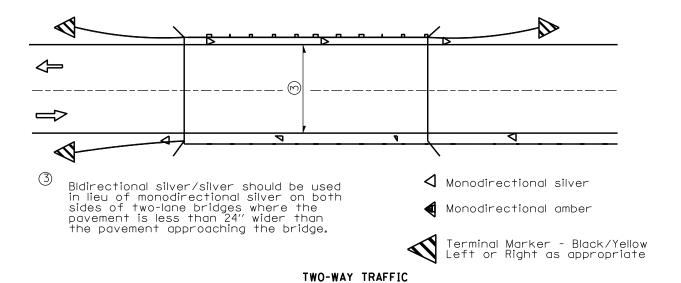
540-21

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -			F.A.P RTE.	SECTION	COUNTY T	TOTAL SHEET
\$FILEL\$		DRAWN	REVISED	STATE OF ILLINOIS	DETAILS	786	(110)BR-1,2,3	LACALLE	69 56
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA TO STA.		ILLINOIS FED.		

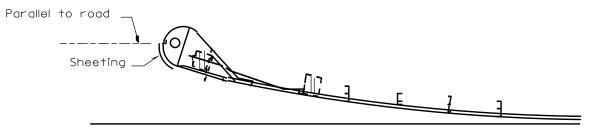




### ONE-WAY TRAFFIC



# GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTIORS



SHEETING POSITION: CASE II

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -			F.A.P RTÉ.	SECTION	COUNTY TOTAL SHEET NO.
\$FILEL\$		DRAWN	REVISED -	STATE OF ILLINOIS	DETAILS	786	(110)BR-1.2.3	LASALLE 69 57
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 66B19
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE	REVISED -		SCALE: SHEET OF SHEETS STA TO STA		ILL INOIS FED	D. AID PROJECT

