

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139 B-2	SANGAMON	57	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

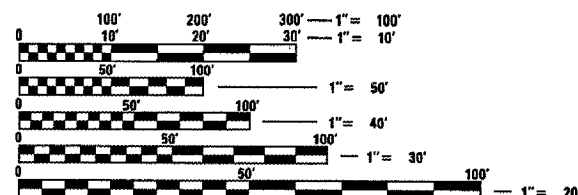
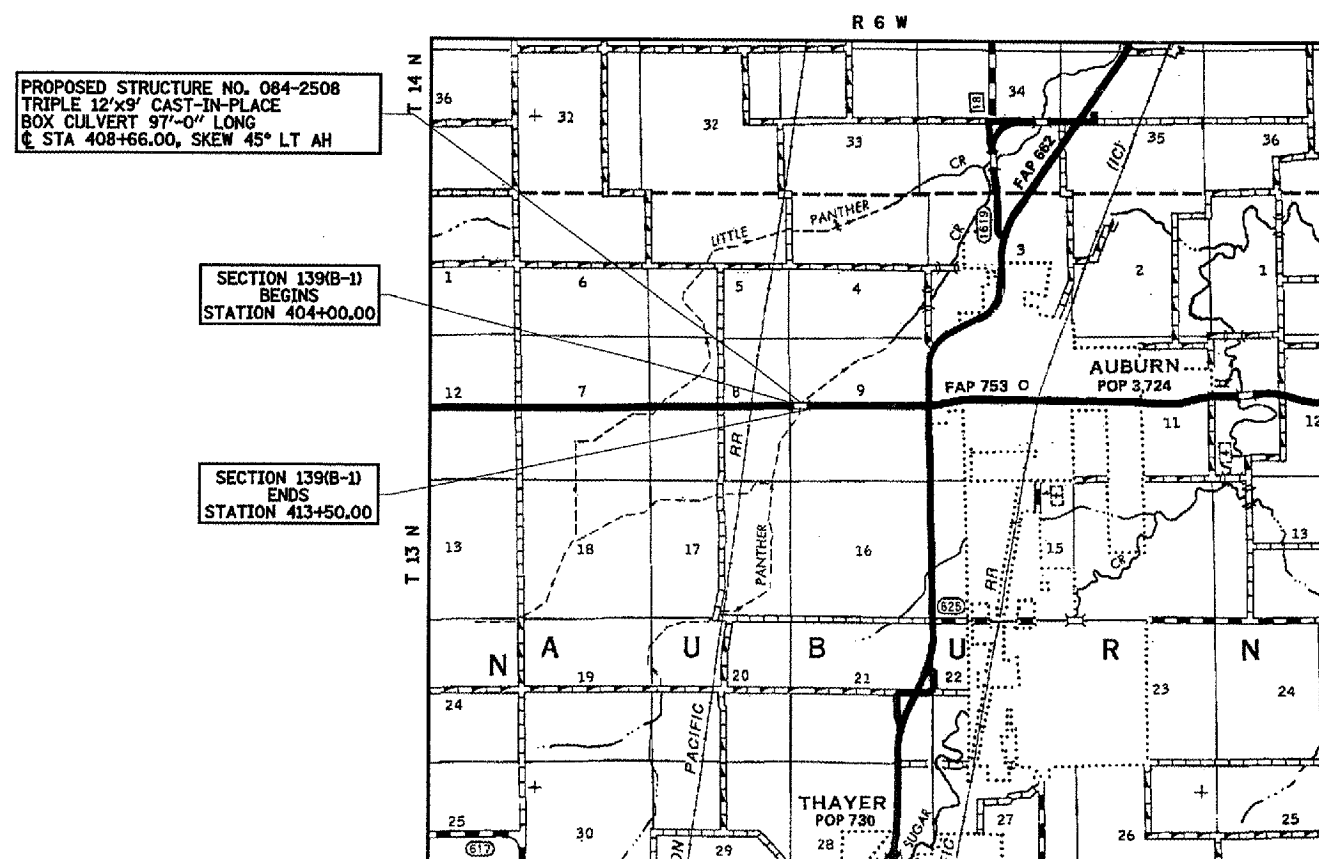
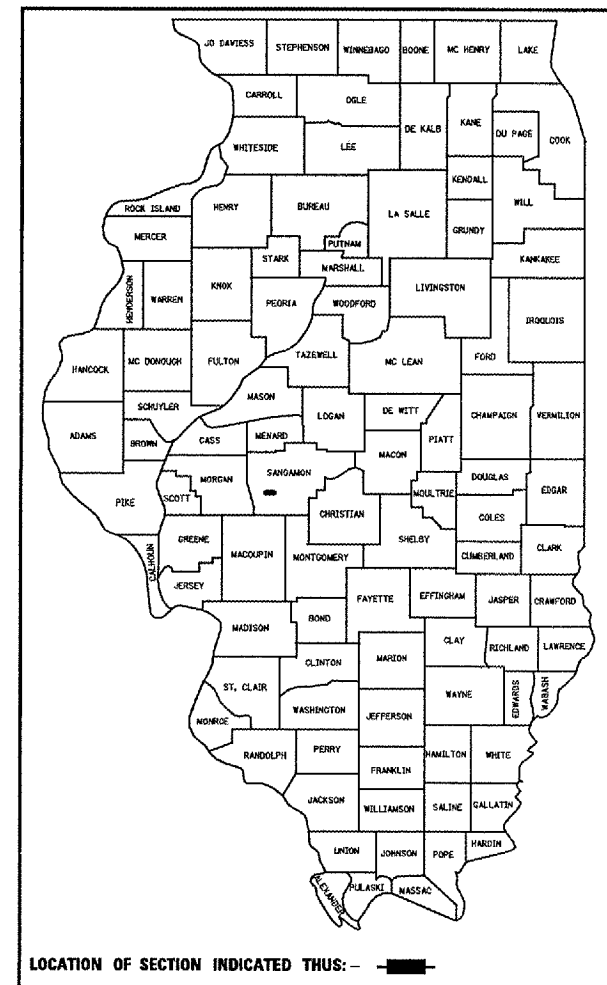
**PROPOSED
BRIDGE REPLACEMENT PLANS**

FAP ROUTE 753 (IL 104)
SECTION 139 B-2
PROJECT : ACBRF-0753(033)
SANGAMON COUNTY
C-96-538-07

INDEX OF SHEETS

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D-96-520-05



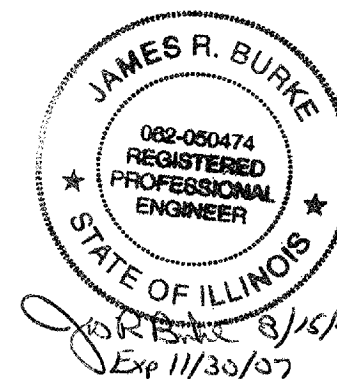
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DESIGN DESIGNATION
FAP 753
MINOR ARTERIAL, (NON-URBAN)
ADT = 4,500 (2027)
% SU = 9
% MU = 4

TOTAL LENGTH OF PROJECT = 950.00 FEET = 0.180 MILES
NET LENGTH OF PROJECT = 950.00 FEET = 0.180 MILES

CONTRACT NO. 72982



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Aug 17, 2007

Eric E. Harn
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 12, 2007
Eric E. Harn
ENGINEER OF DESIGN AND ENVIRONMENT

October 12, 2007
Melton R. See
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

Hutchison Engineering, Inc.
JACKSONVILLE
SHOREWOOD
SINCE 1945

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	2
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

- ALL ELEVATIONS REFER TO N.A.V.D. 88 DATUM.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL DISTURBED UNSURFACED AREAS WITHIN THE ROW AND EASEMENTS SHALL BE SEEDED, FERTILIZED, AND MULCHED AS SHOWN IN THE PLANS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION.
- FERTILIZER NUTRIENTS SHALL BE APPLIED TO BOTH THE SEEDED AREAS AND THE AREAS COVERED WITH EROSION CONTROL BLANKET.
- DO NOT INCLUDE MULCH OR EMULSIFIED ASPHALT ON EROSION CONTROL BLANKET AREAS.
- BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- ALL TREES, BRUSH AND SHRUBS WITHIN THE CONSTRUCTION LIMITS WILL BE REMOVED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. TREES ALONG THE EDGE OF RIGHT OF WAY, OUTSIDE THE CONSTRUCTION LIMITS SHALL BE SAVED IF, IN THE OPINION OF THE ENGINEER, THEY DO NOT INTERFERE WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR WILL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
- IN ACCORDANCE WITH STATE OF ILLINOIS P.A. 86-0674, THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES NOT MORE THAN 14 DAYS NOR LESS THAN 48 HOURS (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) IN ADVANCE OF THE START OF EXCAVATION OR DEMOLITION.

J.U.L.I.E. TELEPHONE NUMBER
811 OR 1-800-892-0123

KNOWN UTILITIES LOCATION WITHIN THE LIMITS OF THIS IMPROVEMENT ARE:

AMEREN CIPS
VERIZON NORTH, INC.
MEDIACOM

- THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, AND ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO RESURFACING.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES :

AGGREGATE (SURFACE, BASE, SUBBASE, OR BACKFILL)	2.05 TON/CUBIC YARD
ROCKFILL	1.89 TON/CUBIC YARD
STONE DUMPED RIPRAP	1.75 TON/CUBIC YARD
BITUMINOUS MATERIALS (PRIME COAT)	0.00038 TON/SQUARE YARD (ON PAVEMENT)
BITUMINOUS MATERIALS (PRIME COAT)	0.001425 TON/SQUARE YARD (ON AGGREGATE)
AGGREGATE (PRIME COAT)	0.002 TON/SQUARE YARD
BITUMINOUS SURFACE/BINDER (112 LBS)	0.056 TON/SQUARE YARD-INCH
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
AGRICULTURE GROUND LIMESTONE	2 TON/ACRE
MULCH	2 TON/ACRE

- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S)	HMA BASE CSE / WIDENING	MACH METH LEVEL BIND	HMA SURFACE CSE	HMA SHOULDERS
AC/PG	PG 58-22	PG 64-22	PG 64-22	PG 58-22
DESIGN AIR VOIDS	4.0% @ N DESIGN=50	4.0% @ N DESIGN=50	4.0% @ N DESIGN=50	2.0% @ N DESIGN=30
MIX COMPOSITION: (GRADATION MIXTURE)	IL-19.0	IL-9.5	IL-9.5 OR 12.5	BAM
FRICITION AGGREGATE	N/A	N/A	MIX "C"	N/A

- UNLESS OTHERWISE NOTED, THE OFFSETS SHOWN IN THE PLANS FOR THE END OF PIPE CULVERTS ARE TO THE END OF THE LAST SECTION OF PIPE NOT TO THE END OF THE END SECTION.

COMMITMENTS





THE FIELD/RESIDENT ENGINEER SHALL CONTACT DISTRICT 6 STUDIES & PLANS AT 217-782-6990 CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN, AND TO ALLOW IMPROVEMENTS IN THE DESIGN FOR FUTURE PROJECTS.

The President of Springfield Plastics, Inc. Stephen Baker requested that we widen an existing entrance located at RT. Sta 405+05.00 to accommodate semi-trucks in case they plan on developing this property. He also requested that we replace the existing pipe culvert with a plastic pipe.

STANDARDS

- 000001-04
- 280001-03
- 515001-02
- 630001-07
- 630101-07
- 630301-04
- 635006-02
- 635011-01
- 666001
- 701001-01
- 701006-02
- 701011-01
- 701201-02
- 701301-02
- 701306-01
- 701311-02
- 701321-08
- 701326-02
- 702001-06
- 704001-03
- 780001-01
- 781001-02
- 886001
- 886006

LEGEND

-  PAVEMENT/PAVED SHOULDER REMOVAL
-  HMA SURFACE REMOVAL-BUTT JOINT
-  TO BE REMOVED
-  TRAFFIC CONTROL STAGE NUMBER

DISTRICT SIX

EXAMINED August 10 2007
Louis J. Hoast
OPERATIONS ENGINEER

EXAMINED Aug 3 2007
W R J
PROGRAM IMPLEMENTATION ENGINEER

EXAMINED July 27 2007
W R J
PROGRAM DEVELOPMENT ENGINEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND LEGEND

DRAWN BY JCC
CHECKED BY JRB

DATE 8/15/07

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	3
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
X0321100	GEOTEXTILE RETAINING WALL	SQ FT	212		212
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	605		605
X0324118	GRANULAR CULVERT BACKFILL	CU YD	750	750	
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1	
XX005519	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	TON	618		618
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	1		1
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	374	374	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	252	252	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

DATE: 8/15/07

DRAWN BY JCW
CHECKED BY JRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	4
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
20200100	EARTH EXCAVATION	CU YD	699	699	
20400800	FURNISHED EXCAVATION	CU YD	1437	1437	
25000200	SEEDING, CLASS 2	ACRE	1.25	1.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	110	110	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	110	110	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	110	110	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3	3	
25100115	MULCH, METHOD 2	ACRE	1.25	1.25	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	125	125	
28000400	PERIMETER EROSION BARRIER	FOOT	625	625	

REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	5
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

*80% FED.
20% STATE*

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080 -2A
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28001000	AGGREGATE (EROSION CONTROL)	TON	35	35	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	40	40	
35501324	HOT-MIX ASPHALT BASE COURSE, 10''	SQ YD	934	934	
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10''	SQ YD	182	182	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2.0	2.0	
40600300	AGGREGATE (PRIME COAT)	TON	11	11	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	101	101	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40600982	HOT-MIX APHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160	160	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

DATE: 8/15/07
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	6
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
40600990	TEMPORARY RAMP	SQ YD	27	27	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	214	214	
44000100	PAVEMENT REMOVAL	SQ YD	400	400	
44004250	PAVED SHOULDER REMOVAL	SQ YD	454	454	
48101300	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	TON	67	67	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	579	579	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	205	205	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	64	64	
50800105	REINFORCEMENT BARS	POUND	103,400		103,400

REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

DATE: 8/15/07

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	7
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1260		1260
50800515	BAR SPLICERS	EACH	195		195
51500100	NAME PLATES	EACH	1		1
54003000	CONCRETE BOX CULVERTS	CU YD	492.6		492.6
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	82	82	
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	900	900	
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	111		111
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	511	511	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	9	9	

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

DATE: 8/15/07
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	8
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	190	190	
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	5938	5938	

REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	9
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	48	48	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2634	2634	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450	450	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	450	450	
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	2138	2138	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	891	891	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12	

* SPECIALTY ITEM

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753	139(B-1)	SANGAMON	57	10
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

ENTRANCE SCHEDULE

STATION	SIDE	TYPE	AGGREGATE BASE COURSE, TYPE B	PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS D, TYPE 1 18"
			TON	FOOT	
405+04	LT	FE	23.4	32	46
405+05	RT	FE	15.8	32	36
TOTALS			39.2	64	82
USE			40	64	82

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

STATION	OFFSET	SIDE	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS
	FOOT		EACH
404+00	40.0	LT	1
404+00	40.0	LT	1
407+50	75.0	RT	1
408+00	55.0	LT	1
408+50	80.0	LT	1
409+00	75.0	RT	1
410+25	80.0	LT	1
413+50	40.0	LT	1
413+50	40.0	RT	1
TOTAL			9
USE			9

EARTHWORK SCHEDULE

STATION TO STATION	EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	BALANCE WASTE OR SHORTAGE (-)	
				CU YD	
STAGE 1					
404+00	413+50	271.6	203.7	1054.9	-851.2
ADJUSTMENT FOR BOX CULVERT EXCAVATION		217.5	163.1	0.0	-688.1
STAGE 2					
404+00	413+50	426.5	319.9	1231.2	-911.3
ADJUSTMENT FOR BOX CULVERT EXCAVATION		217.5	163.1	0.0	-748.2
TOTALS		698.1*			-1436.3*
USE		699			1437**

*TOTALS REPRESENT SUM OF ALL STAGES
**TO BE PAID FOR AS FURNISHED EXCAVATION

TREE REMOVAL

STATION	SIDE	OFFSET FT	TREE REMOVAL	
			6 TO 15 UNITS DIAMETER	OVER 15 UNITS DIAMETER
408+05	LT	31.2		32
408+42	LT	21.4		42
408+79	LT	36.3	10	
408+95	RT	37.8		32
409+01	RT	38.2	6	
409+10	RT	38.2	10	
409+23	RT	38.2	8	
409+28	RT	38.2	7	
409+33	RT	38.1		18
409+39	RT	38.2	10	
409+41	RT	38.3	12	
409+42	RT	38.2	13	
409+53	LT	43.1	12	
409+54	LT	42.2	10	
409+55	LT	25.4		42
409+62	RT	38.4	12	
409+65	RT	38.5	8	
409+66	RT	38.5	8	
409+75	RT	38.5		16
409+81	RT	39.5	8	
409+83	RT	38.5	12	
409+94	RT	39.3	8	
409+97	RT	39.3	10	
410+01	RT	38.4	8	
410+02	RT	38.4	8	
410+05	RT	39.2	6	
410+07	RT	39.3	7	
410+08	RT	39.3	7	
410+09	RT	39.2	7	
410+22	RT	39.3		16
410+36	RT	39.0	6	
410+37	RT	39.1	6	
410+41	RT	38.5	8	
410+45	RT	29.1		26
410+46	LT	29.5	14	
410+47	LT	27.0	10	
410+50	LT	31.1	9	
410+52	LT	31.5	9	
410+60	LT	24.5	15	
410+63	LT	27.2	7	
410+68	LT	30.3	8	
410+73	RT	39.0	12	
410+74	RT	39.1	8	
410+85	LT	27.5	12	
410+90	RT	39.6		28
412+04	LT	45.4	10	
412+08	LT	47.3	15	
412+09	LT	44.4	10	
480+75	LT	37.4	8	
TOTALS			374	252
USE			374	252

PAVEMENT AND PAVED SHOULDER REMOVAL

STATION TO STATION	SIDE	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL
		SO YD	
406+00	408+40	LT	106.7
406+00	408+00	RT	88.9
407+90	409+40	-	400.0
409+30	412+00	LT	120.0
408+90	412+00	RT	137.8
TOTAL		400.0	453.4
USE		400	454

PAVEMENT MARKING

STATION TO STATION	SIDE	DESCRIPTION	PAINT PAVEMENT MARKING	
			5" LINE-WHITE	5" LINE-YELLOW
FOOT				
404+00.0	413+50.0	LT EOP	950.0	
404+00.0	413+50.0	RT EOP	950.0	
404+00.0	413+50.0	CL SKIP-DASH		237.5
TOTALS			1900.0	237.5
USE				2138

AGGREGATE SHOULDERS, TYPE B (SPECIAL)

STATION TO STATION	SIDE	AGGREGATE SHOULDERS, TYPE B (SPECIAL)
		TON
405+17.25	411+34.00	RT 33.0
405+98.00	412+23.00	LT 33.4
TOTAL		66.4
USE		67

GUARDRAIL SCHEDULE

STATION TO STATION	SIDE	STEEL PLATE BEAM GUARD RAIL, TYPE A	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	TERMINAL MARKER, DIRECT APPLIED
		FEET	FEET		
405+25.0	411+00.0	RT 419.5	55.5	2	2
406+32.0	412+57.0	LT 469.5	55.5	2	2
TOTALS		889.0	111.0	4	4
USE		900	111	4	4

LANDSCAPING SCHEDULE

STATION TO STATION	SIDE	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
		ACRE	POUND			TON	ACRE
404+00	413+50	LT 0.50	45.0	45.0	45.0	1.0	0.50
404+00	413+50	RT 0.68	64.8	64.8	64.8	1.4	0.68
TOTALS		1.18	109.8	109.8	109.8	2.4	1.18
USE		1.25	110	110	110	3	1.25

PAVING SCHEDULE

STATION TO STATION	HOT-MIX ASPHALT BASE COURSE, 10"	HOT-MIX ASPHALT BASE COURSE, WIDENING, 10"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE PRIME COAT	LEVELING BINDER (MACHINE METHOD), NSO	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", NSO	HOT-MIX ASPHALT SHOULDERS, 6"	HOT MIX ASPHALT SHOULDERS
	SO YD			TON		SO YD	TON	SO YD	TON
404+00	406+00		0.41	2.2	19.3	80.0	45.0	144.6	40.6
406+00	407+90	168.9	0.39	2.1	21.6		42.8	84.4	42.6
407+90	409+40	533.4	0.30	1.6	17.0		33.8	133.4	33.6
409+40	412+00	231.2	0.54	2.8	29.5		58.5	115.6	58.2
412+00	413+50		0.30	1.6	13.6	80.0	33.8	100.1	29.4
TOTALS		933.5	1.94	10.3	101.0	160.0	213.9	578.1	204.4
USE		934	182	2.0	11	160	214	579	205

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

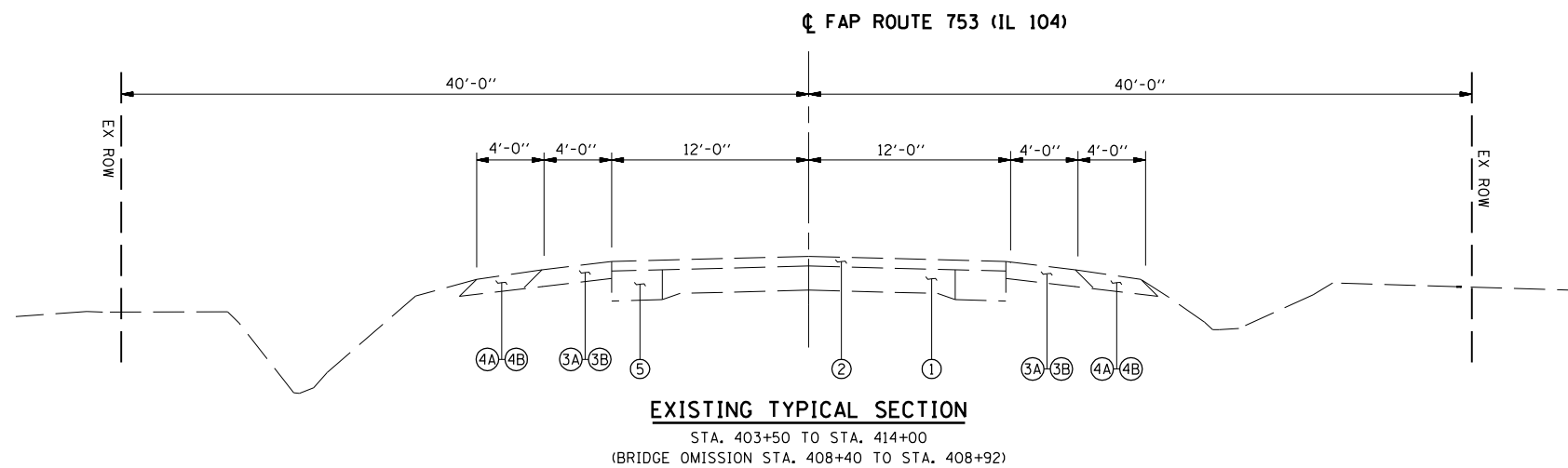
SCHEDULE OF QUANTITIES

DRAWN BY JCW

DATE: 8/15/07

CHECKED BY JRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- ① EXISTING 9-6-9 PCC PAVEMENT
- ② EXISTING HOT MIX ASPHALT SURFACE
- ③A EXISTING HOT MIX ASPHALT SHOULDERS 8"
- ③B EXISTING PCC PAVEMENT 10"
- ④A EXISTING AGGREGATE SHOULDERS 8"
- ④B EXISTING PCC PRECAST UNIT
- ⑤ EXISTING HOT MIX ASPHALT BASE COURSE WIDENING 9"

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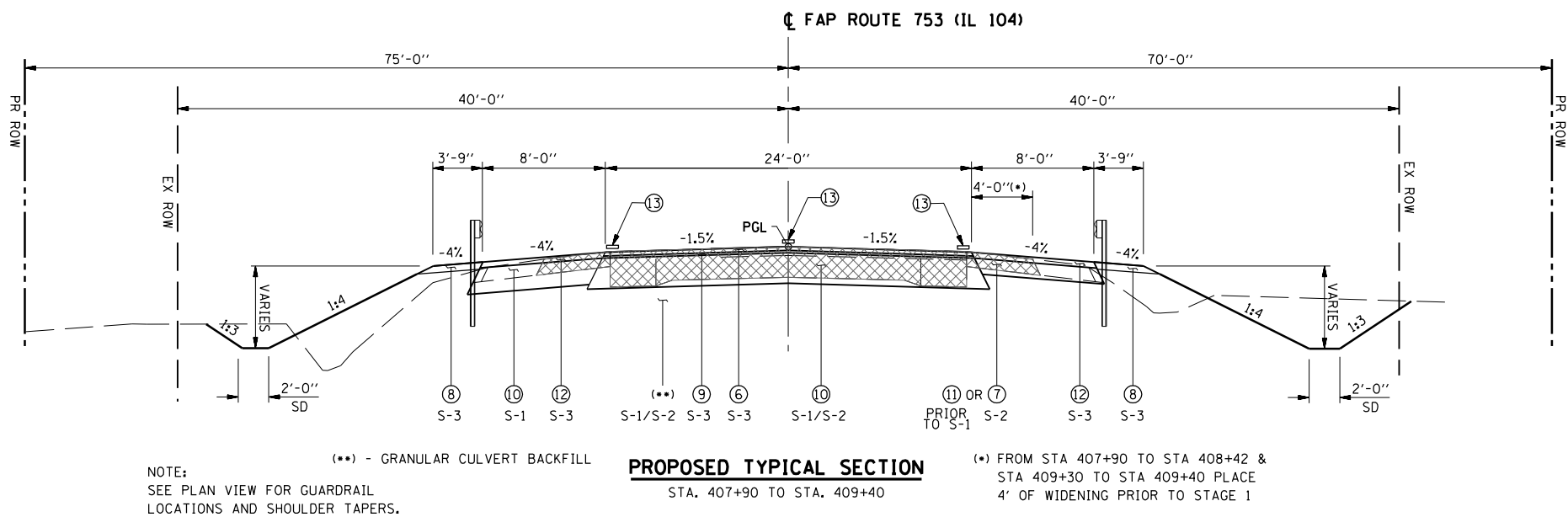
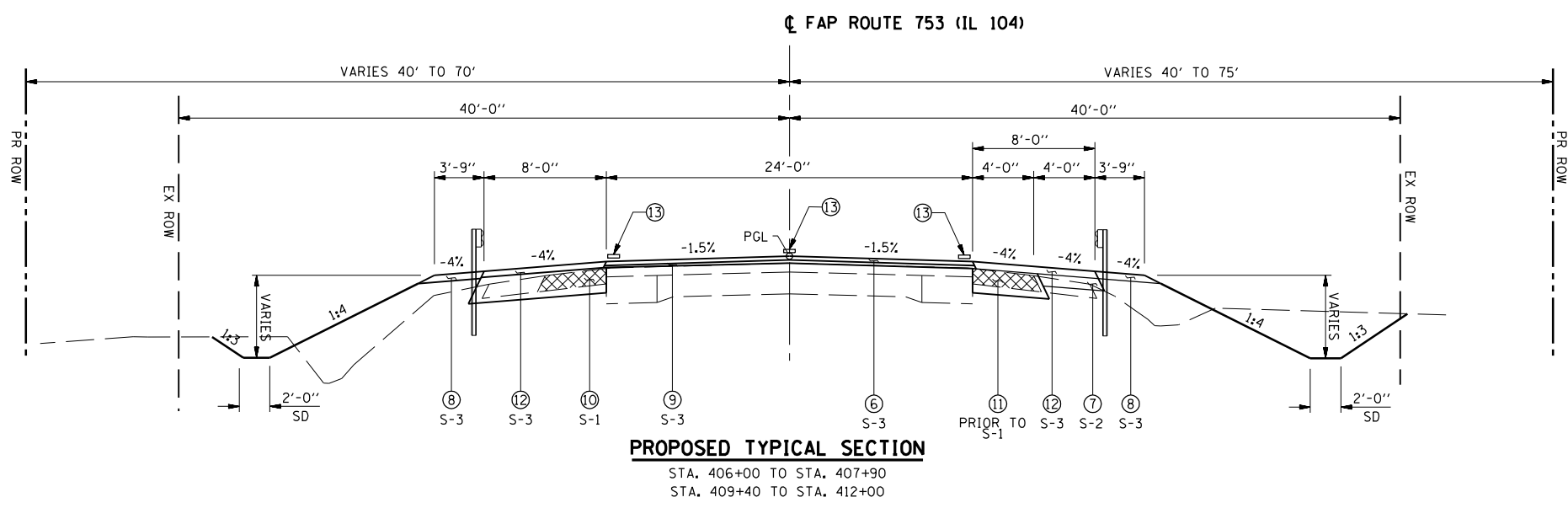
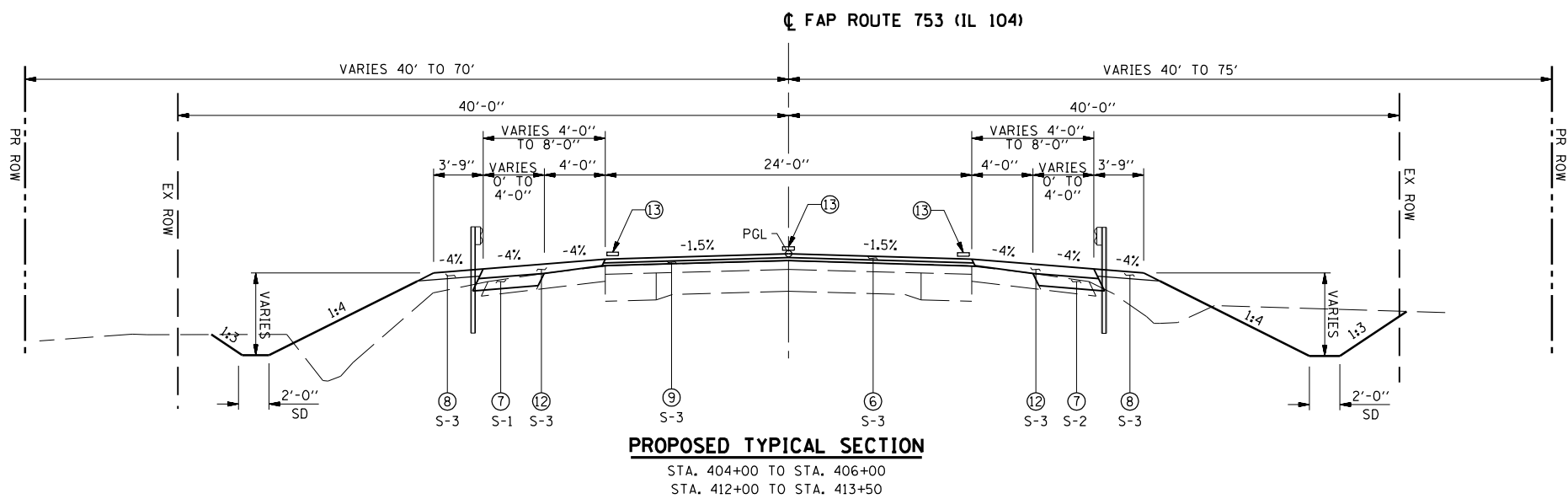
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTION

DATE: 8/15/07
 DRAWN BY JCW
 CHECKED BY JRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	12
STA. 753 TO STA. 139		TO STA. 139		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- LEGEND**
- ① EXISTING 9-6-9 PCC PAVEMENT
 - ② EXISTING HOT MIX ASPHALT SURFACE
 - ③A EXISTING HOT MIX ASPHALT SHOULDERS 8"
 - ③B EXISTING PCC PAVEMENT 10"
 - ④A EXISTING AGGREGATE SHOULDERS 8"
 - ④B EXISTING PCC PRECAST UNIT
 - ⑤ EXISTING HOT MIX ASPHALT BASE COURSE WIDENING 9"
 - ⑥ PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 (1 1/2")
 - ⑦ PROPOSED HOT MIX ASPHALT SHOULDERS, 6"
 - ⑧ PROPOSED AGGREGATE SHOULDERS, TYPE B (2 1/4" & VARIES)
 - ⑨ PROPOSED LEVELING BINDER (MACHINE METHOD), N50 (3/4")
 - ⑩ PROPOSED HOT MIX ASPHALT BASE COURSE, 10"
 - ⑪ PROPOSED HOT MIX ASPHALT BASE COURSE WIDENING, 10"
 - ⑫ PROPOSED HOT MIX ASPHALT SHOULDERS (2 1/4" AND VAR)
 - ⑬ PROPOSED PAINT PAVEMENT MARKING, LINE 5"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

DRAWN BY JCW
CHECKED BY JRB

DATE: 8/15/07

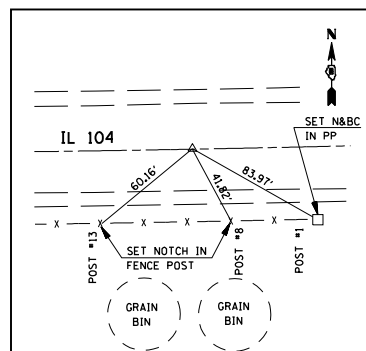
NOTE:
SEE PLAN VIEW FOR GUARDRAIL
LOCATIONS AND SHOULDER TAPERS.

(**) - GRANULAR CULVERT BACKFILL

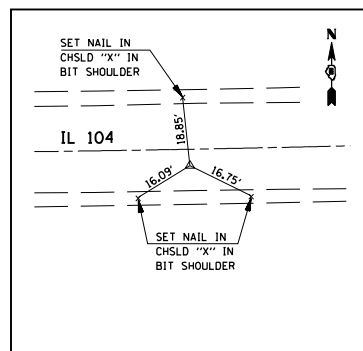
(*) FROM STA 407+90 TO STA 408+42 &
STA 409+30 TO STA 409+40 PLACE
4' OF WIDENING PRIOR TO STAGE 1

PLOT DATE = Aug-17-2007 10:45:43AM
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 USER NAME = laughlin-1

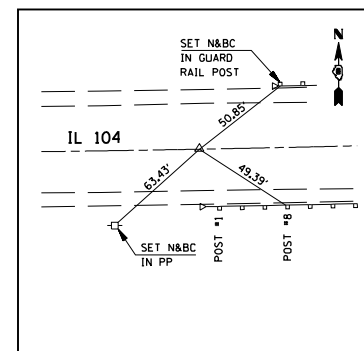
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



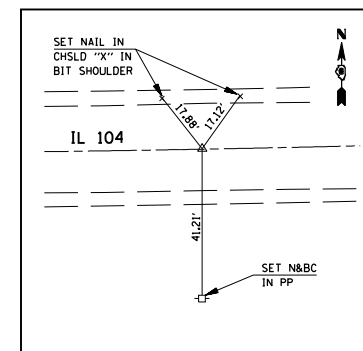
P.C. STA. 396+67.58
(SET P.K. NAIL IN CHSLD "X")



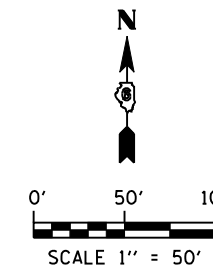
P.I. STA. 401+67.58
(SET P.K. NAIL IN CHSLD "X")



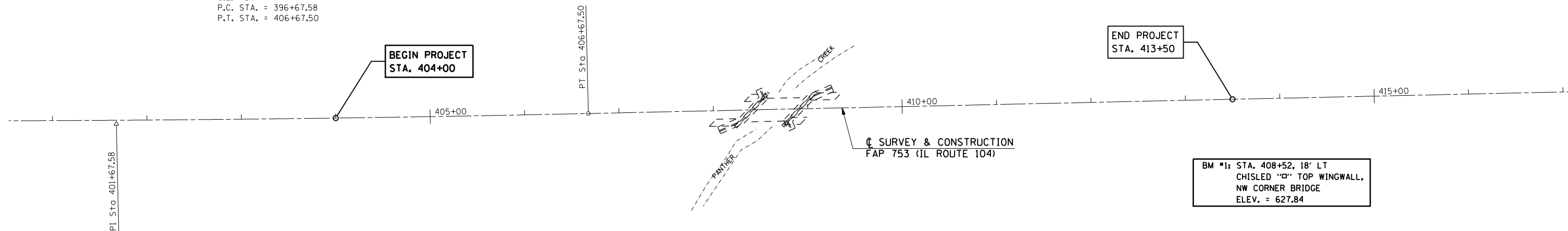
P.T. STA. 406+67.50
(SET P.K. NAIL IN CHSLD "X")



P.O.T. STA. 419+44.39
(SET P.K. NAIL IN CHSLD "X")



EXIST. CURVE 10
 PI STA. = 401+67.58
 $\Delta = 1^\circ 47' 54''$ (LT)
 $D = 0^\circ 10' 47''$
 $R = 31,860.25'$
 $T = 500.00'$
 $L = 999.92'$
 $E = 3.92'$
 $e = N.C.$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 P.C. STA. = 396+67.58
 P.T. STA. = 406+67.50



PLOT DATE = Aug-17-2007 10:45:47 AM
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 USER NAME = laughlin-1

REVISIONS	
NAME	DATE

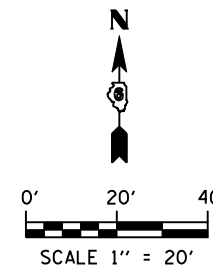
ILLINOIS DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES

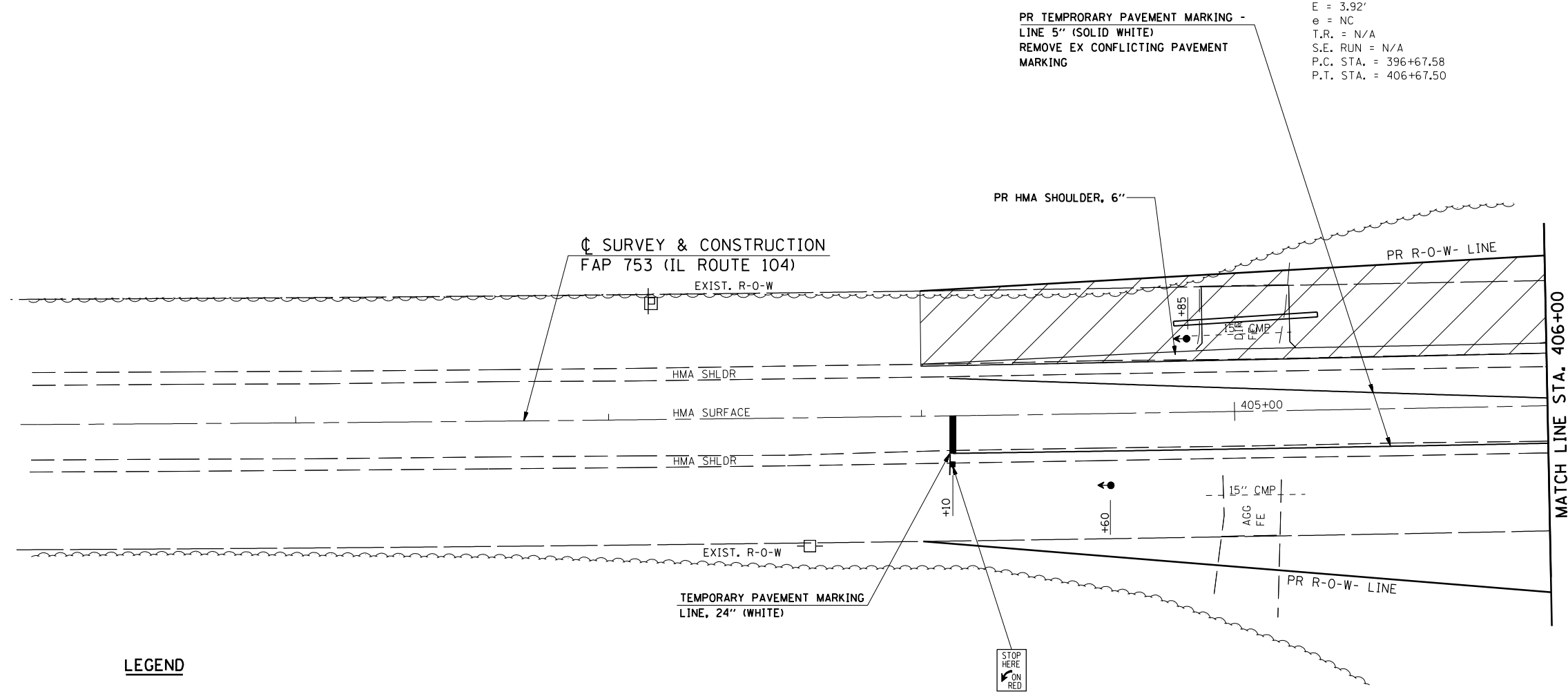
DATE: 8/15/07

DRAWN BY JCW
 CHECKED BY JRB







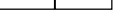


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE 10
 PI STA. = 401+67.58
 $\Delta = 1^\circ 47' 54''$ (LT)
 $D = 0^\circ 10' 47''$
 $R = 31,860.25'$
 $T = 500.00'$
 $L = 999.92'$
 $E = 3.92'$
 $e = NC$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C. STA. = 396+67.58$
 $P.T. STA. = 406+67.50$



LEGEND

-  WORK AREA
-  SIGN
-  TYPE III BARRICADE
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL
-  TYPE C BIDIRECTIONAL REFLECTOR
-  TEMPORARY CONCRETE BARRIER
-  STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
-  DOUBLE VERTICAL PANEL

NOTE:
 1. SEE IDOT STANDARD 701321 FOR ADDITIONAL DETAILS.

REVISIONS	
NAME	DATE

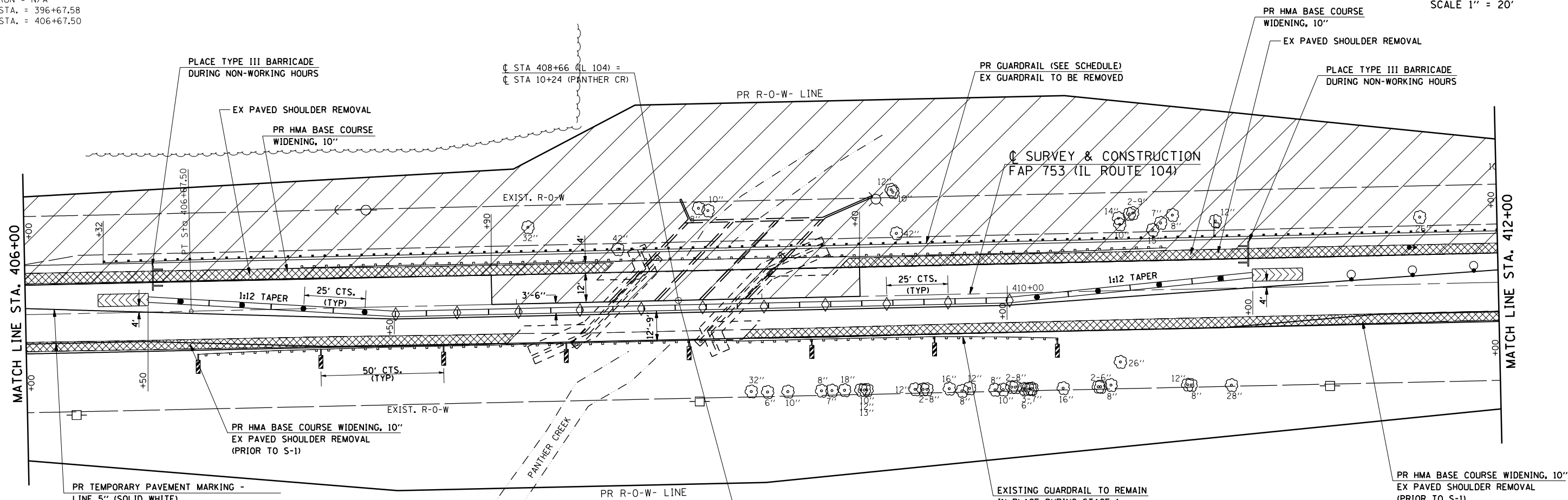
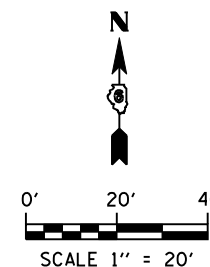
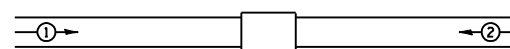
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC
 STAGE 1
 STA 401+15 TO STA 406+00
 DRAWN BY JCW
 CHECKED BY JRB
 DATE: 8/15/07

PLOT DATE = Aug-17-2007 10:45:50AM
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 USER NAME = laughlin-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE 10
 PI STA. = 401+67.58
 $\Delta = 1^\circ 47' 54''$ (LT)
 $D = 0^\circ 10' 47''$
 $R = 31,860.25'$
 $T = 500.00'$
 $L = 999.92'$
 $E = 3.92'$
 $e = NC$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C. STA. = 396+67.58$
 $P.T. STA. = 406+67.50$

TEMPORARY SIGNAL PHASE DIAGRAM



LEGEND

- WORK AREA
 - SIGN
 - TYPE III BARRICADE
 - DRUM WITH STEADY BURNING LIGHT
 - TRAFFIC SIGNAL
 - TYPE C BIDIRECTIONAL REFLECTOR
 - TEMPORARY CONCRETE BARRIER
 - IMPACT ATTENUATOR
 - STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
 - DOUBLE VERTICAL PANEL
- PR TEMPORARY PAVEMENT MARKING - LINE 5" (SOLID WHITE)
 REMOVE EX CONFLICTING PAVEMENT MARKING

PRE-STAGE 1 CONSTRUCTION:

1. INSTALL ALL NECESSARY ITEMS IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701326 TO CONSTRUCT WIDENING.
2. CONSTRUCT HOT-MIX ASPHALT BASE COURSE WIDENING RIGHT OF CENTERLINE.
3. INSTALL TEMPORARY TRAFFIC SIGNALS, TEMPORARY CONCRETE BARRIERS, AND OTHER TRAFFIC CONTROL IN ACCORDANCE WITH STANDARD 701321 AND STAGE 1 TRAFFIC DETAILS.

STAGE 1 CONSTRUCTION:

1. SHIFT TRAFFIC TO RIGHT (EASTBOUND LANE)
2. REMOVE HALF OF THE EXISTING STRUCTURE, GUARDRAIL, AND PAVEMENT FOR NEW STRUCTURE LEFT OF CENTERLINE.
3. CONSTRUCT NEW STRUCTURE LEFT OF CENTERLINE.
4. CONSTRUCT HMA WIDENING/SHOULDERS, EMBANKMENTS, AND DITCH LEFT OF CENTERLINE.
5. INSTALL PROPOSED GUARDRAIL LEFT OF CENTERLINE.

STA. 408+66, 45° SKEW
 EX STRUCTURE REMOVAL
 EX PAVEMENT REMOVAL
 PR TRIPLE 12'x9' RC BOX CULVERT
 PR GRANULAR CULVERT BACKFILL
 PR GEOTEXTILE RETAINING WALL
 PR HMA BASE COURSE, 10"

EXISTING GUARDRAIL TO REMAIN IN PLACE DURING STAGE 1.

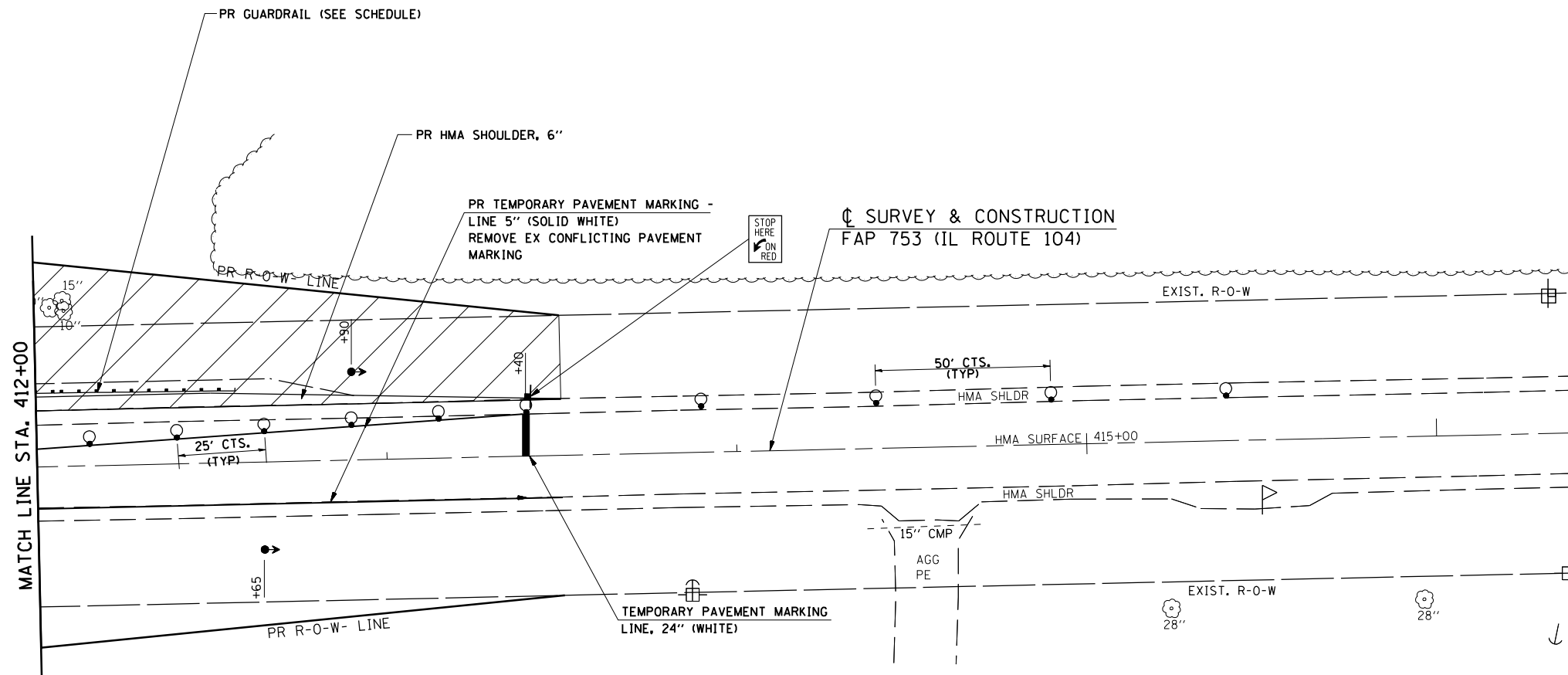
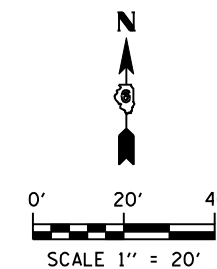
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC
STAGE 1
 STA. 406+00 TO STA. 412+00







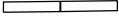


DATE: 8/15/07
 DRAWN BY JCW
 CHECKED BY JRB

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 PLOT SCALE = 42.3528 / IN.
 USER NAME = laughlin-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

-  WORK AREA
-  SIGN
-  TYPE III BARRICADE
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL
-  TYPE C BIDIRECTIONAL REFLECTOR
-  TEMPORARY CONCRETE BARRIER
-  STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
-  DOUBLE VERTICAL PANEL

NOTE:
1. SEE IDOT STANDARD 701321 FOR ADDITIONAL DETAILS.

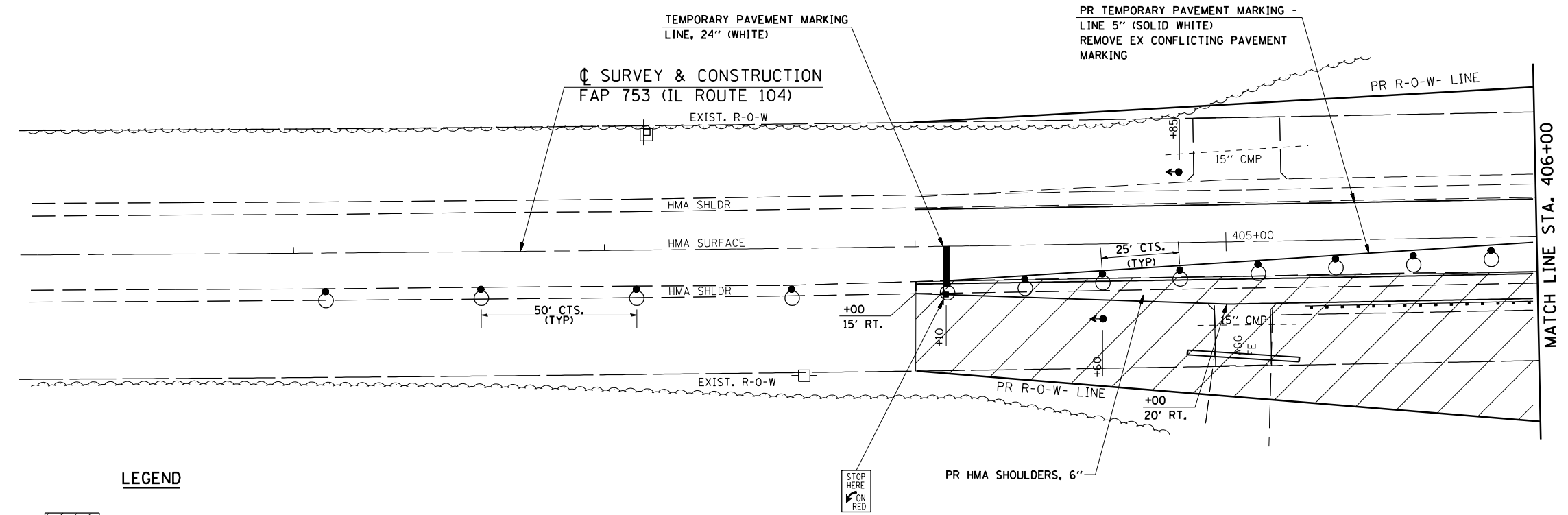
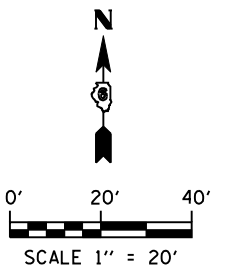
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC
STAGE 1
STA 412+00 TO STA 416+00











DATE: 8/15/07
 DRAWN BY JCW
 CHECKED BY JRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE 10
 PI STA. = 401+67.58
 $\Delta = 1^\circ 47' 54''$ (LT)
 $D = 0^\circ 10' 47''$
 $R = 31,860.25'$
 $T = 500.00'$
 $L = 999.92'$
 $E = 3.92'$
 $e = NC$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C. STA. = 396+67.58$
 $P.T. STA. = 406+67.50$



LEGEND

-  WORK AREA
-  SIGN
-  TYPE III BARRICADE
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL
-  TYPE C BIDIRECTIONAL REFLECTOR
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
-  DOUBLE VERTICAL PANELS

NOTE:
 1. SEE IDOT STANDARD 701321 FOR ADDITIONAL DETAILS.

REVISIONS	
NAME	DATE

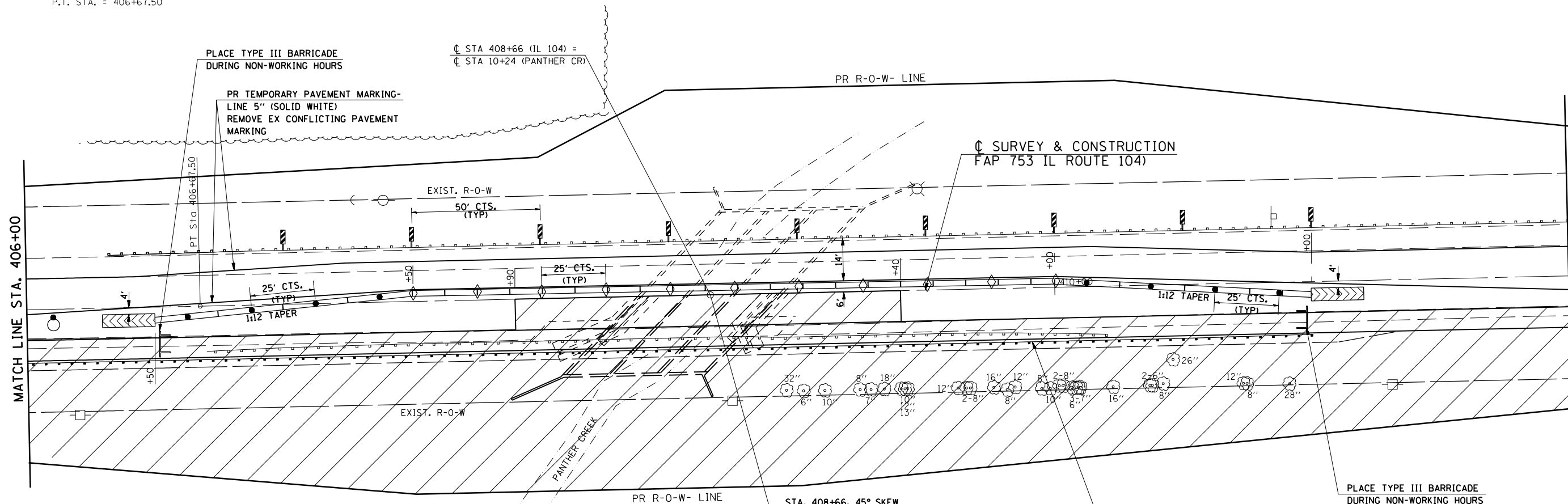
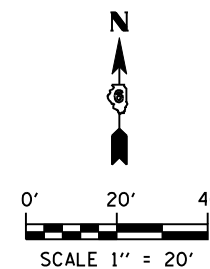
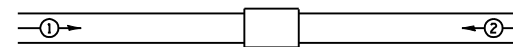
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC
 STAGE 2
 STA 401+15 TO STA 406+00
 DRAWN BY JCW
 CHECKED BY JRB
 DATE: 8/15/07

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 PLOT SCALE = 42.3525 / IN.
 USER NAME = laughlin-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE 10
 PI STA. = 401+67.58
 $\Delta = 1^\circ 47' 54''$ (LT)
 $D = 0^\circ 10' 47''$
 $R = 31,860.25'$
 $T = 500.00'$
 $L = 999.92'$
 $E = 3.92'$
 $e = NC$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C. STA. = 396+67.58$
 $P.T. STA. = 406+67.50$

TEMPORARY SIGNAL PHASE DIAGRAM



LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- DOUBLE VERTICAL PANEL

STAGE 2 CONSTRUCTION:

1. RELOCATE TEMPORARY CONCRETE BARRIER AND OTHERS TRAFFIC CONTROL ITEMS IN ACCORDANCE WITH STANDARD 701321 AND STAGE 2 TRAFFIC DETAILS.
2. SHIFT TRAFFIC TO LEFT (WESTBOUND LANE).
3. REMOVE REMAINING HALF OF EXISTING STRUCTURE, GUARDRAIL AND PAVEMENT FOR NEW STRUCTURE RIGHT OF CENTERLINE.
4. CONSTRUCT REMAINING PORTION OF NEW STRUCTURE RIGHT OF CENTERLINE.
5. CONSTRUCT HMA SHOULDERS, EMBANKMENT AND DITCHES RIGHT OF CENTERLINE.
6. INSTALL PROPOSED GUARDRAIL RIGHT OF CENTERLINE.

STAGE 3 CONSTRUCTION:

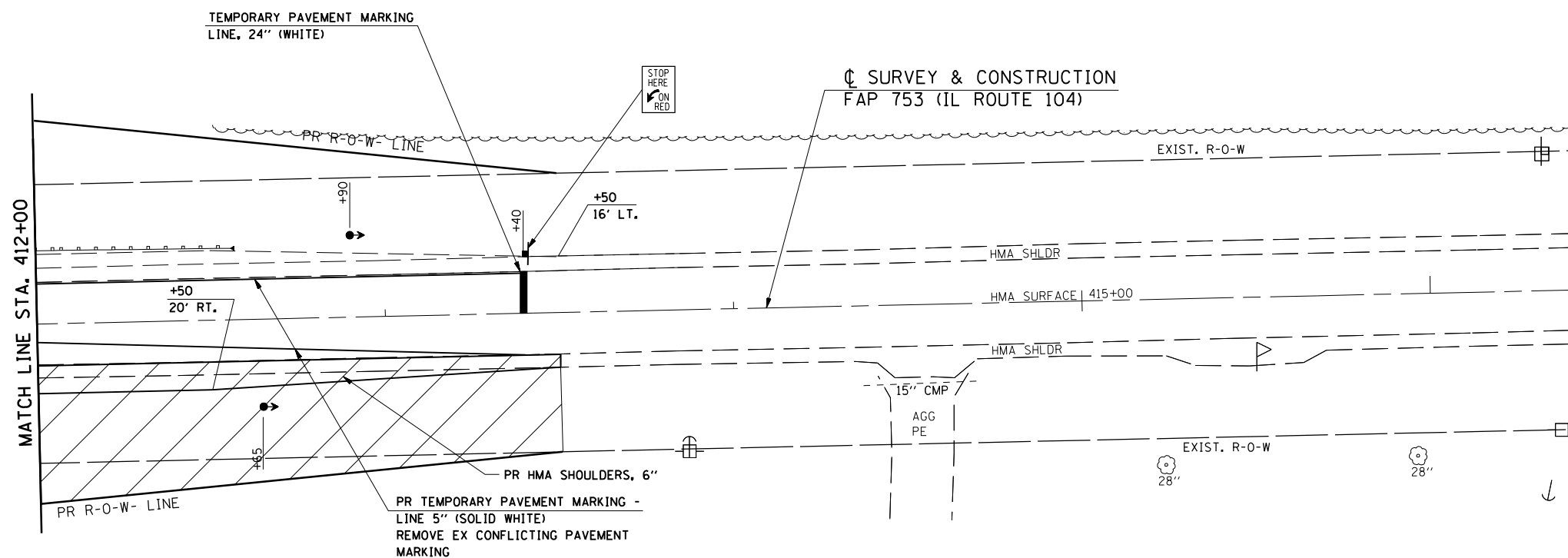
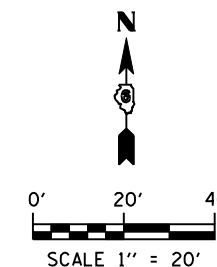
1. REMOVE TRAFFIC CONTROL ITEMS ASSOCIATED WITH STANDARD 701321 AND RESTORE TWO-LANE TWO-WAY TRAFFIC.
2. MILL BUTT JOINTS, CONSTRUCT THE HMA SURFACE/ LEVELING BINDER, FINAL SHOULDER LIFT, AGGREGATE SHOULDERS AND STRIPING USING THE APPROPRIATE TRAFFIC CONTROL.

REVISIONS	
NAME	DATE







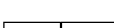



ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC
 STAGE 2
 STA. 406+00 TO STA. 412+00

DATE: 8/15/07
 DRAWN BY JCW
 CHECKED BY JRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

-  WORK AREA
-  SIGN
-  TYPE III BARRICADE
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL
-  TYPE C BIDIRECTIONAL REFLECTOR
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
-  DOUBLE VERTICAL PANEL

NOTE:
1. SEE IDOT STANDARD 701321 FOR ADDITIONAL DETAILS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC
STAGE 2
STA 412+00 TO STA 416+40

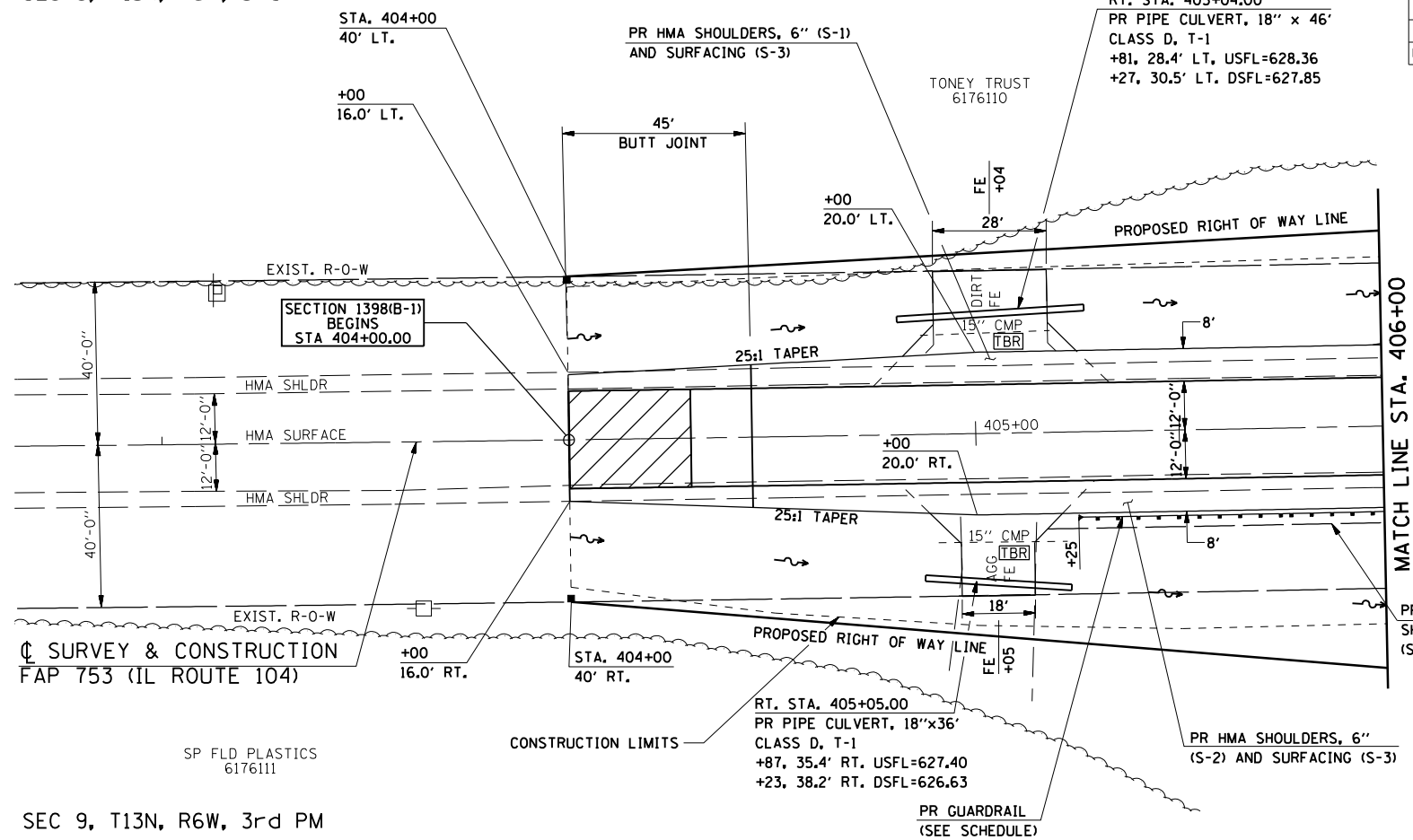
DATE: 8/15/07
DRAWN BY JCW
CHECKED BY JRB

SEC 9, T13N, R6W, 3rd PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	20

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

PLAN	REVISIONS	BY	DATE
DESIGNED			
ALIGNED			
CHECKED			
PLOTTED			
NOTE BOOK NO.			
CADD FILE NAME			



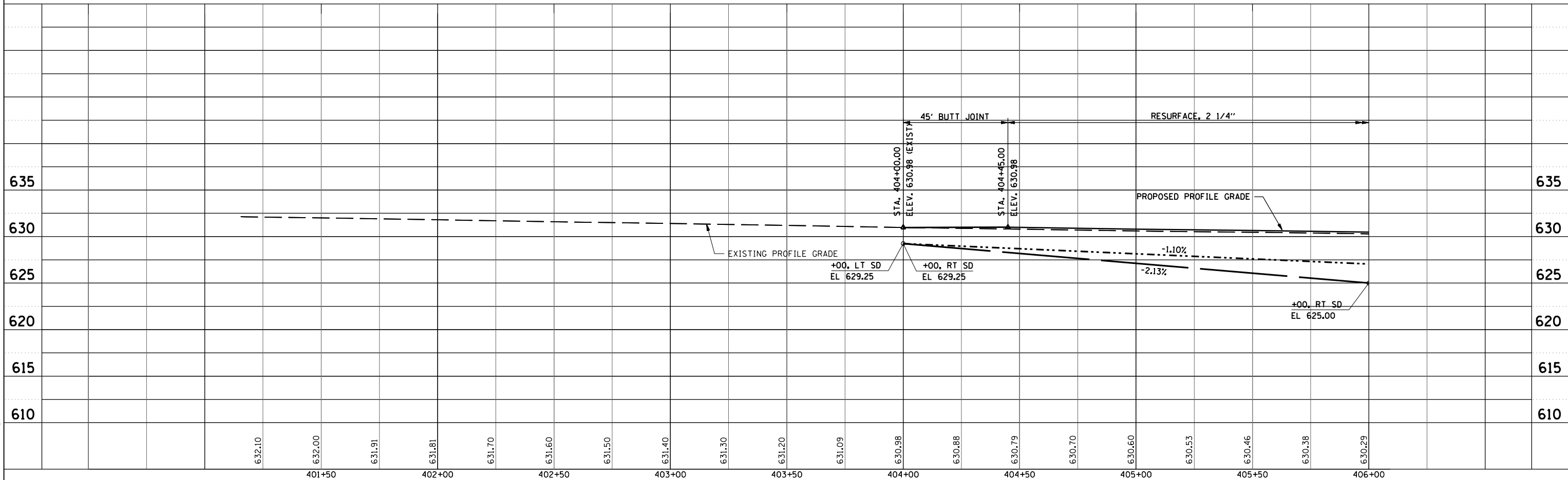
EXIST. CURVE 10
 PI STA. = 401+67.58
 $\Delta = 1^\circ 47' 54''$ (LT)
 $D = 0^\circ 10' 47''$
 $R = 31,860.25'$
 $T = 500.00'$
 $L = 999.92'$
 $E = 3.92'$
 $e = N.C.$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C. STA. = 396+67.58$
 $P.T. STA. = 406+67.50$

BITUMINOUS SURFACE REMOVAL BUTT JOINT

SEC 9, T13N, R6W, 3rd PM

PROFILE	REVISIONS	BY	DATE
DESIGNED			
GRADES CHECKED			
PLOTTED			
NOTE BOOK NO.			
STRUCTURE NOTATIONS CHECKED			

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 USER NAME = laughlin-1



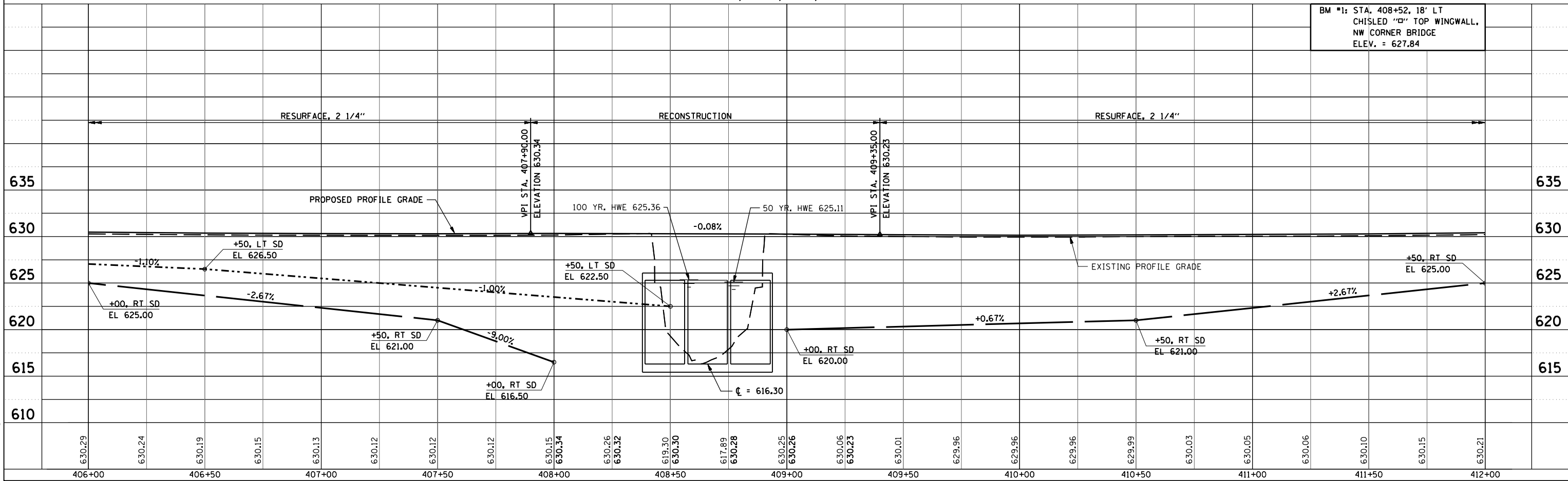
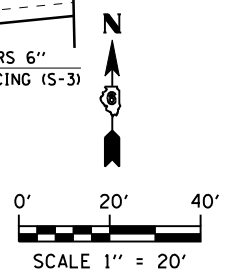
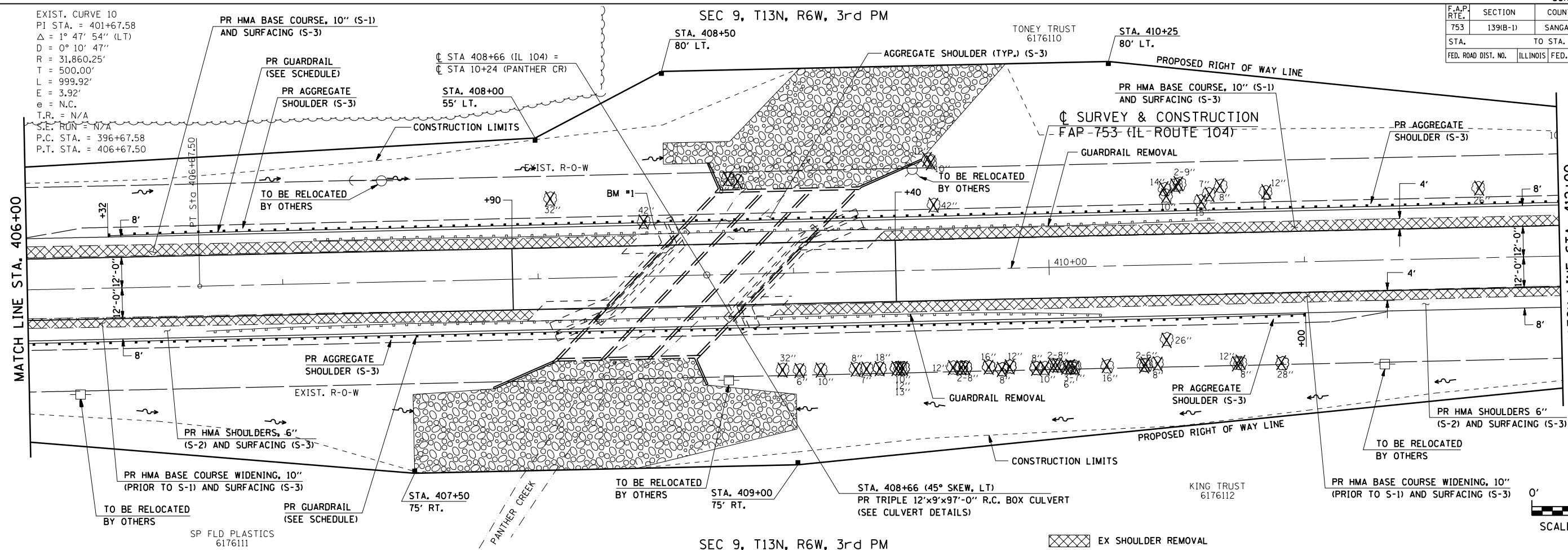
PLAN & PROFILE - STA 403+00 TO STA 406+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	21
STA. 406+00		TO STA. 412+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY

DATE	BY

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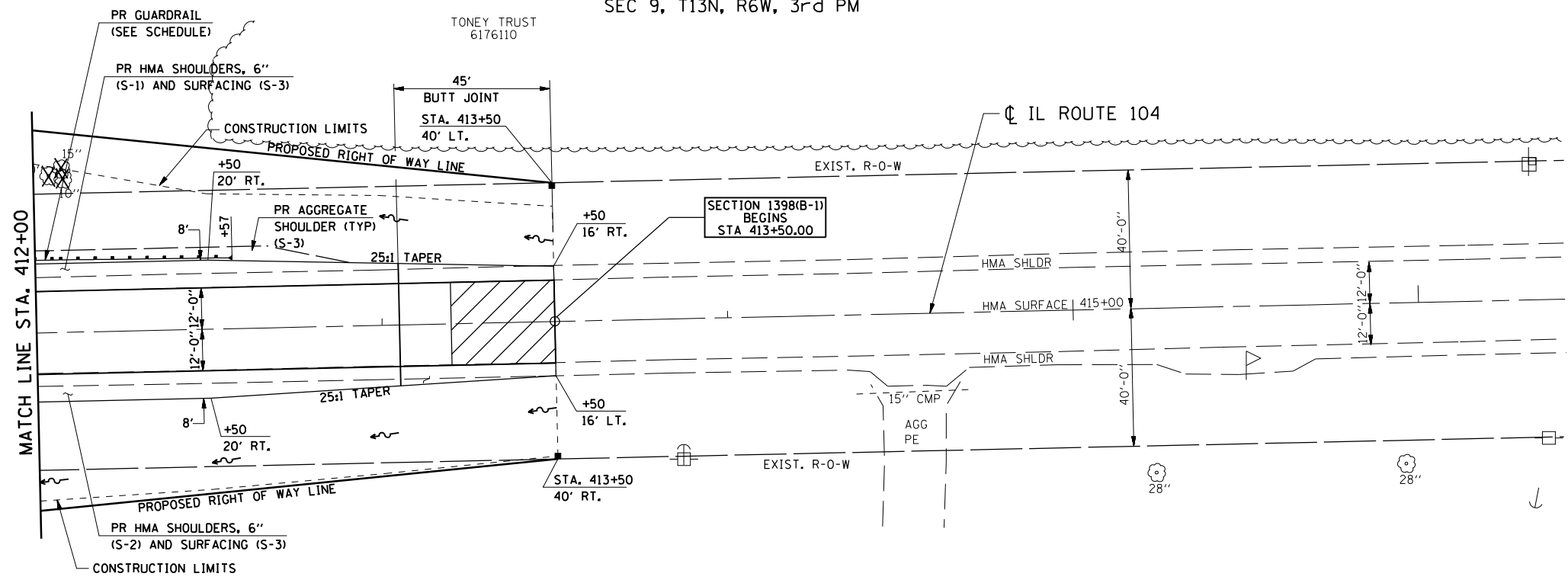


BM #1: STA. 408+52, 18' LT
 CHISLED "O" TOP WINGWALL,
 NW CORNER BRIDGE
 ELEV. = 627.84

PLAN & PROFILE - STA 406+00 TO STA 412+00

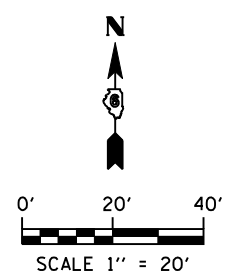
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753	139(B-1)	SANGAMON	57	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SEC 9, T13N, R6W, 3rd PM



SEC 9, T13N, R6W, 3rd PM

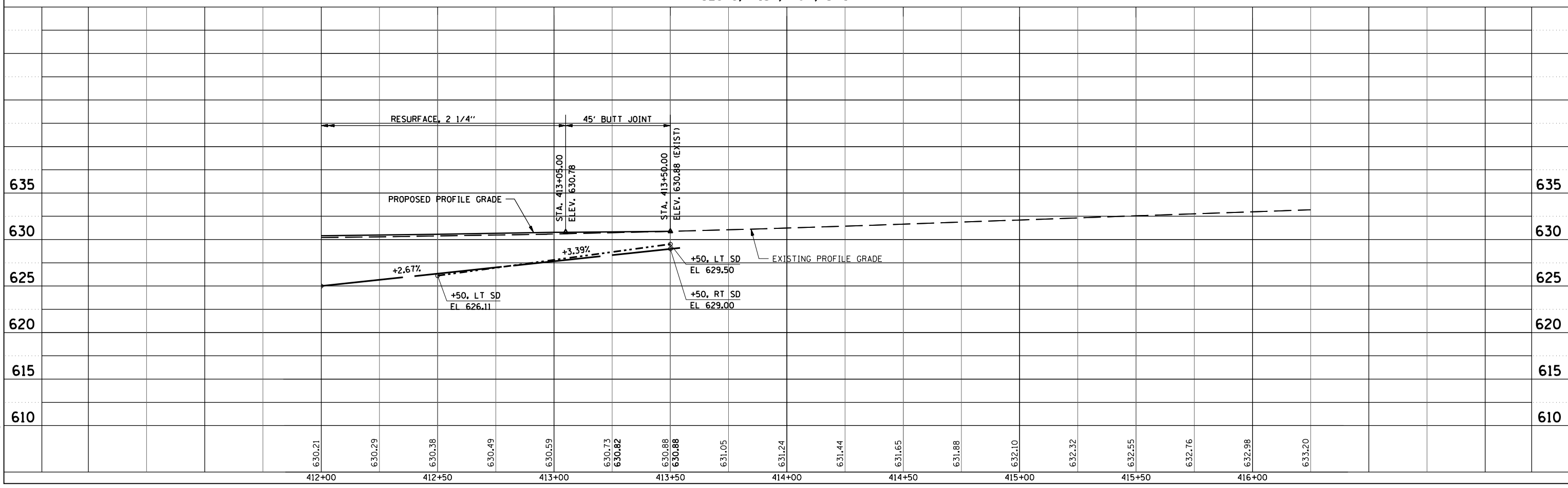
BITUMINOUS SURFACE REMOVAL BUTT JOINT



PLAN	REVISIONS	DATE
NO.	DESCRIPTION	
1	ALIGNED, CHECKED, PLOTTED, AND FILED	
2	NO. / BY	

PROFILE	REVISIONS	DATE
NO.	DESCRIPTION	
1	GRADES CHECKED, PLOTTED, AND FILED	
2	NO. / BY	

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PLAN & PROFILE - STA 412+00 TO STA 416+40

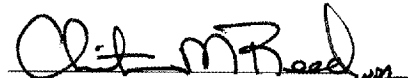
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753	139(B-1)	SANGAMON	57	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STORM WATER POLLUTION PREVENTION PLAN

Route: FAP RTE 753 Marked: IL RTE. 104
 Section: 139(B-1) Project No.: NA
 County: SANGAMON Contract No.: 72982

This plan has been prepared to comply with the provisions of the NPDES Permit Number ILR10-....., issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


 (Signature)

Aug 17, 2007
 (Date)


 (Title)

The following plan was established and included in these plans to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES. The Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / minimize siltation within the construction zone and to eliminate sediments from entering and leaving the construction zone by utilizing proper temporary erosion control systems and providing ground cover within a reasonable time.

Certain items, as shown in this plan and referenced by the legend, shall be placed by the Contractor at the beginning of construction. Other items shall be placed by the Contractor as directed by the Engineer on a case by case situation resulting from the Contractor's sequence of activities, time of the year, and expected weather conditions.

The Contractor shall place permanent erosion control systems and seeding within a reasonable amount of time; therefore, reducing the amount of area being open to the possibility of erosion and reducing the amount of temporary erosion control systems and temporary seeding. The Resident Engineer will determine if temporary erosion control systems shown in the plan can be deleted, the size of the proposed ditch checks, the proper method of installation, and if any additional temporary erosion control systems shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer and as shown in special details and in Standard 280001 of the plans.

The special provisions Temporary Seeding, Temporary Erosion Control Seeding, and Temporary Erosion Control additionally supplement this plan.

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by October 1st of each construction year and shall not be reopened until after the winter shutdown period.

SITE DESCRIPTION

Description of Construction Activity:

1. The proposed project consists of 0.180 miles of improvements to an existing two lane roadway.
2. Construction consists of bridge replacement, box culvert construction, resurfacing, pavement reconstruction, ditch construction, and other miscellaneous work to complete construction of the proposed improvements.

Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

1. Pavement removal for construction of a new box culvert.
2. Construction of a new box culvert.
3. Construction of new embankment and ditches.
4. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as erosion control fence, aggregate ditch checks, temporary seeding, etc.
5. Placement of permanent erosion control, such as riprap ditch lining, excelsior blanket, seeding, etc.
6. Final grading, paving and other miscellaneous items.

Area of Construction Site:

The total drainage area entering and including the construction site is estimated to be 4,500 acres in which 2.5 acres will be disturbed by excavation, grading or other activities.

Other Reports, Studies and Plans which Aid in the Development of this Storm Water Pollution Prevention Plan as Referenced Documents:

1. Estimated run-off coefficients are contained in the project drainage study which were utilized for proposed placement of the temporary erosion control systems.
2. Information on the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems.
3. Site maps indicating drainage patterns and approximate slopes were contained in the project design report, USGS drainage maps, project drainage study, and project plan documents were all utilized for proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

1. Panther Creek

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

DATE: 8/15/07

DRAWN BY JCW
 CHECKED BY JRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

1. The area between the existing and proposed right-of-way/temporary easement boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area, reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:
 - (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal and other activities which would be detrimental to their maintenance and development.
 - (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
 - (c) As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.
 - (d) Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are immediately expected as stated in section 280 of the standard specification for "temporary erosion control seeding".
 - (e) Immediately after tree removal is completed in certain areas which are highly erodible areas as determined by the Engineer, the areas shall be temporarily seeded where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
 - (f) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, temporary ditch checks, or riprap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesirable conditions.
2. Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be complete.
3. A third benefit of these filter areas is that they will begin to provide a screen and buffer. They will help protect the construction site from winds and excess sun and mitigate construction noise and dust.

Description of Stabilization Practices During Construction:

1. During roadway construction, areas outside the construction slope limits as outlined previous herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
 - (a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
 - (b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
 - (c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:
 - i. Place temporary erosion control systems at locations where water leaves and enters the construction zone
 - ii. Temporary seed highly erodible areas outside the construction slope limits
 - iii. Construct roadside ditches and provide temporary erosion control systems
 - iv. Temporary divert water around proposed culvert locations
 - v. Build necessary embankment at culvert locations and then excavate and place culvert
 - vi. Continue building up the embankment to the proposed grade while at the same time place permanent erosion control such as riprap ditch lining and conduct final shaping to the slopes
 - (d) The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.
 - (e) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in section 280 of the standard specifications for "temporary erosion control seeding".

(f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.

(g) The Resident Engineer shall inspect the project daily during activities and weekly or after large rains during the winter shutdown period. The project shall additionally be inspected by the Construction Field Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary.

(h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer. The cost of this maintenance will be paid for in accordance with Article 109.04 of the Standard Specifications.

(i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the temporary erosion control system. No additional compensation will be allowed.

Description of Structural Practices After Final Grading:

1. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand.
2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.

Maintenance after Construction:

1. Construction is complete after acceptance is received at the final inspection.
2. Areas will be inspected on a regular basis by IDOT District 6 Bureau of Operations.
3. Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.
4. Maintenance crews will also aid in any ditch lining maintenance or in any drainage problems.
5. All maintenance will be conducted at times when weather conditions will not cause site damage.

DOCUMENTATION

1. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with Section 4.b. shall be made and retained as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with part VI.G of the general permit.
2. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI.G. of the general permit. The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency
 Division of Water Pollution Control
 2200 Churchill Road, P.O. Box 19276
 Springfield, IL 62794-9276
 Attn: Compliance Assurance Section

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

DRAWN BY JCW
 CHECKED BY JRB
 DATE: 8/15/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACTOR CERTIFICATION STATEMENT

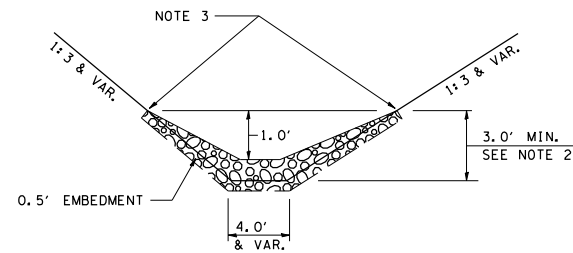
This certification statement is part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. ILR10 _____, issued by the Illinois Environmental Protection Agency on _____.

Route: FAP 753 Marked: IL RTE. 104
 Section: 139(B-1) Project No.: NA
 County: SANGAMON Contract No.: 72982

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Signature _____ Date _____
 Title _____
 Name of Firm _____
 Street Address _____
 City, State, Zip _____
 Phone Number _____

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.



STONE DUMPED RIPRAP DITCH CHECK
(TYPICAL)

- NOTE 1: BALES SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 1.0' OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE BALES.
- NOTE 2: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 1.0' OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.
- NOTE 3: ENDS SHALL BE TIED INTO SLOPES.

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

ITEM	SYMBOL
AGGREGATE (EROSION CONTROL) [STONE DUMPED RIPRAP DITCH CHECKS (Height = 2.0')]	
TEMPORARY DITCH CHECKS (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION)	
INLET PIPE PROTECTION (I&PP) (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION)	
EROSION CONTROL FENCE	
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	
DIRECTION OF OVERLAND FLOW	

GENERAL NOTES:
 All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

The symbology on the STORM WATER POLLUTION PREVENTION PLAN sheets does not represent the size or quantity of bales, for number of bales refer to details and notes shown on this sheet and/or as directed by the Engineer.

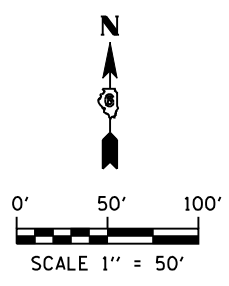
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

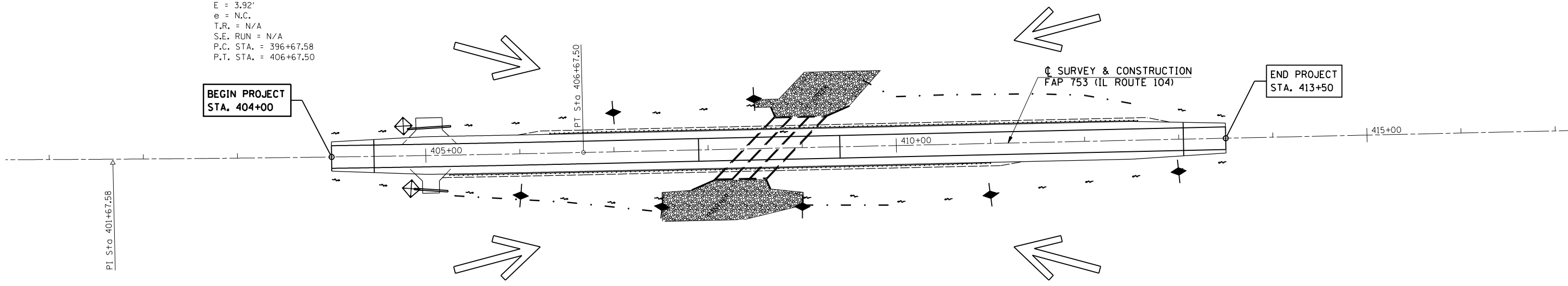
STORM WATER POLLUTION PREVENTION PLAN

DATE: 8/15/07
 DRAWN BY JCW
 CHECKED BY JRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139(B-1)	SANGAMON	57	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE 10
 PI STA. = 401+67.58
 $\Delta = 1^\circ 47' 54''$ (LT)
 $D = 0^\circ 10' 47''$
 $R = 31,860.25'$
 $T = 500.00'$
 $L = 999.92'$
 $E = 3.92'$
 $e = N.C.$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C. STA. = 396+67.58$
 $P.T. STA. = 406+67.50$



LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

ITEM	SYMBOL
INLET PIPE PROTECTION (I&PP) (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION)	
PERIMETER EROSION BARRIER	
AGGREGATE DITCH CHECKS	
DIRECTION OF OVERLAND FLOW	

GENERAL NOTES:
 ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON THIS SHEET,
 ON STANDARD 280001, AND AS DIRECTED BY THE ENGINEER.

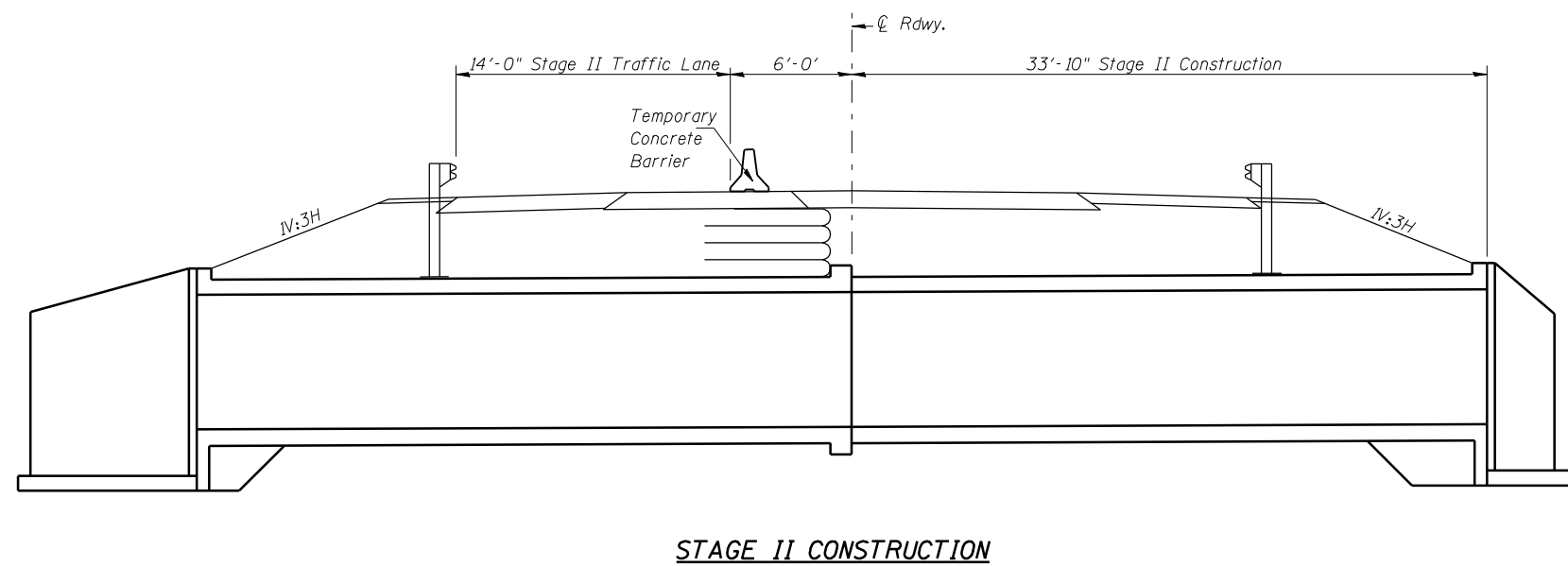
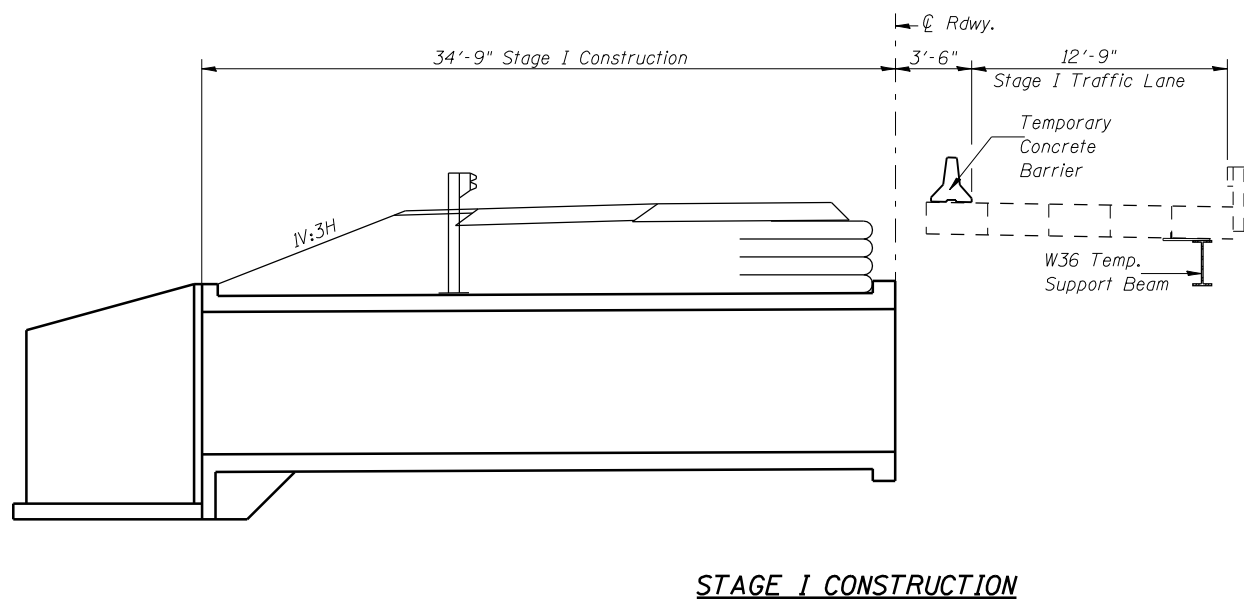
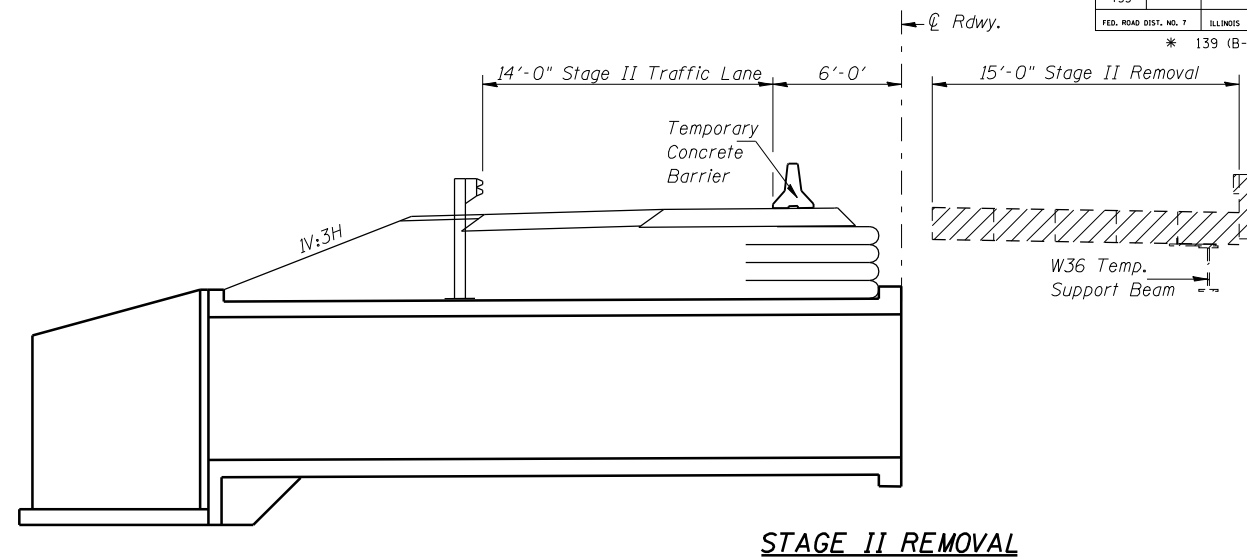
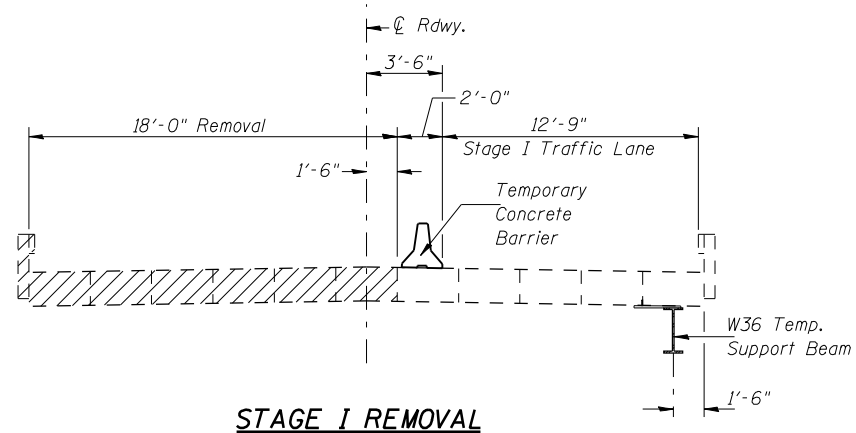
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM WATER POLLUTION PREVENTION PLAN
 DRAWN BY JCW
 CHECKED BY JRB
 DATE: 8/15/07

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 USER NAME = laughlin-1

ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 753	*	SANGAMON	57	28
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	
* 139 (B-1)		CONTRACT NO. 72982		

SHEET NO. 2
10 SHEETS



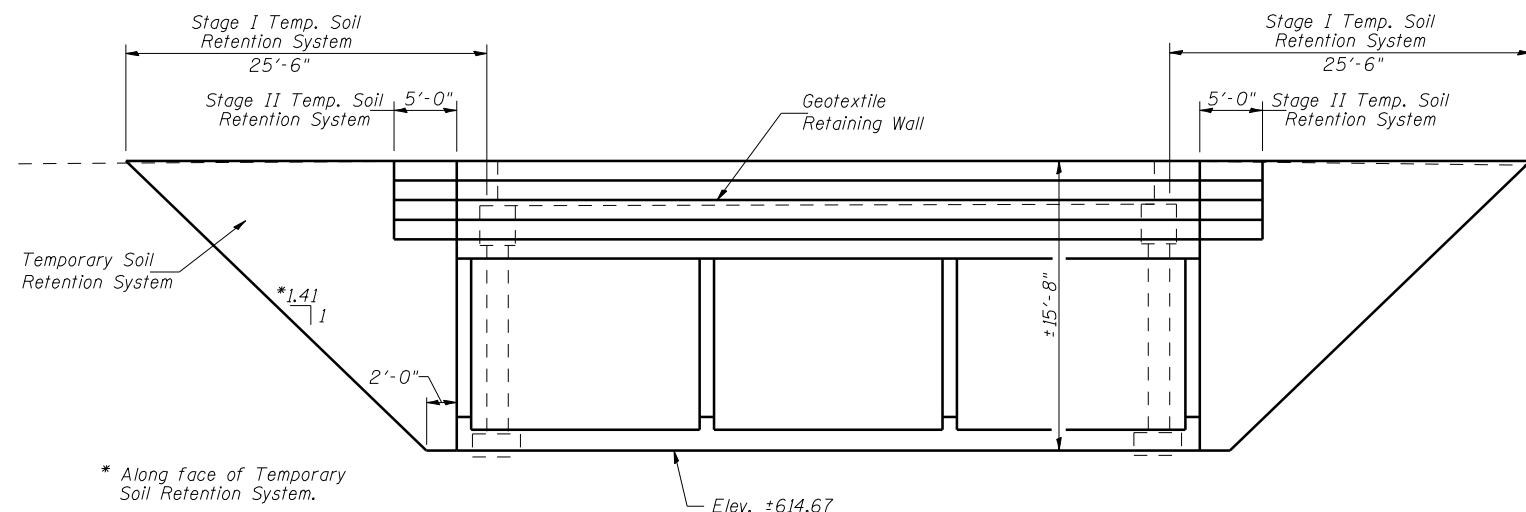
STAGE CONSTRUCTION DETAILS

(LOOKING EAST)

Dimensions are at rt. L's to \varnothing Roadway

Notes:

- For Temporary Support System Details, see Sht. 4 of 10.
- Hatched area indicates Removal of Existing Structure.
- For detail of Temporary Concrete Barrier, see Sht. 5 of 10.
- For quantity of Temporary Concrete Barrier, see roadway plans.
- The contractor shall anchor the Temporary Soil Retention System to the existing bridge abutments. The connection shall be approved by the Engineer.
- For details of the Temporary Geotextile Retaining Wall, see Sht. 3 of 10.
- For Temporary Pavement Widening details and quantities, see roadway plans.
- A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and by the Engineer.

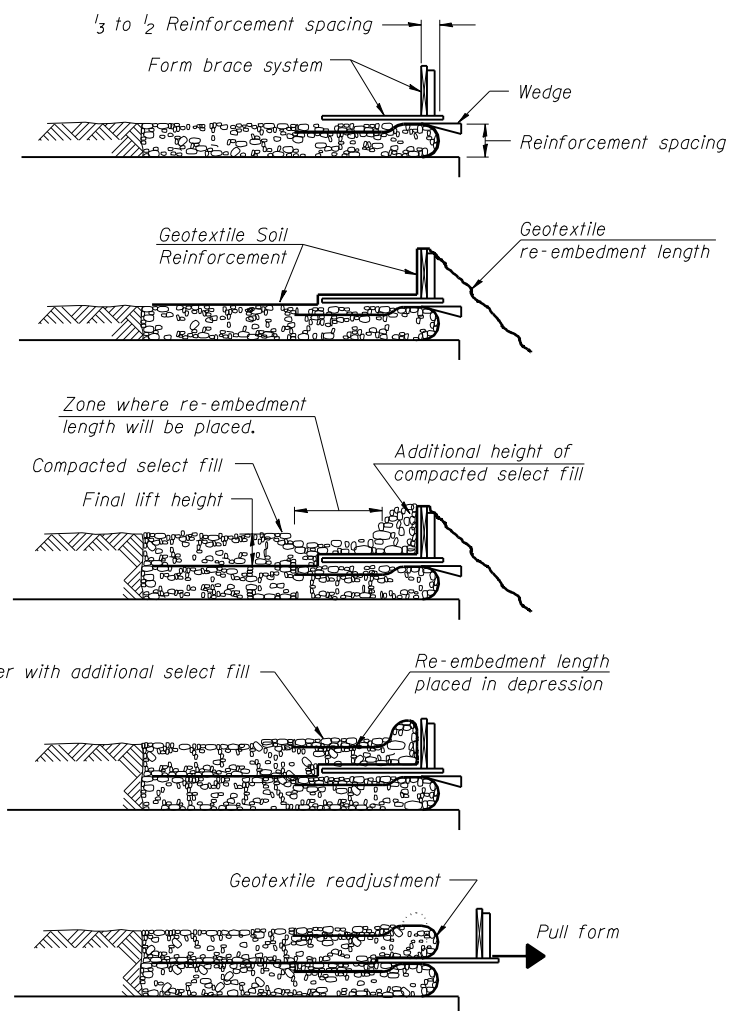


* Along face of Temporary Soil Retention System.

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/CET
CHECKED	BAN

STAGE CONSTRUCTION DETAILS
F.A.P. 753 (IL. 104)
OVER PANTHER CREEK
SECTION 139(B-1)
SANGAMON COUNTY
STA. 408+66.00
STR. NO. 084-2508

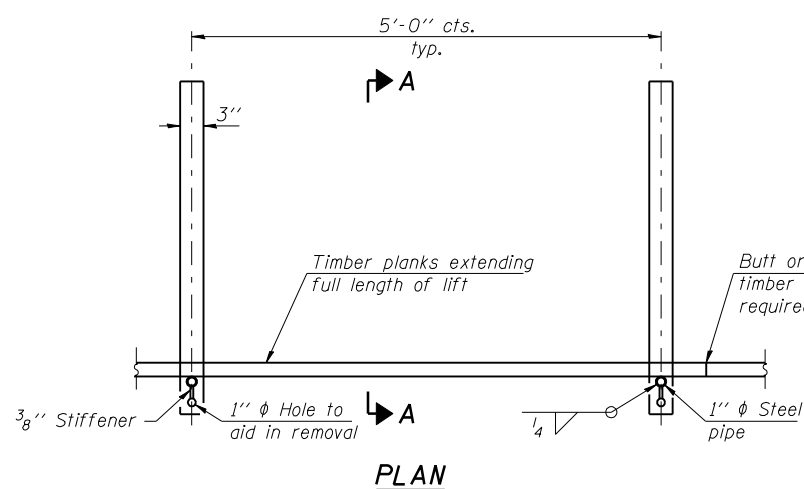
HUTCHISON ENGINEERING, INC.
 JACKSONVILLE, ILLINOIS
 Rev: _____ Date: _____



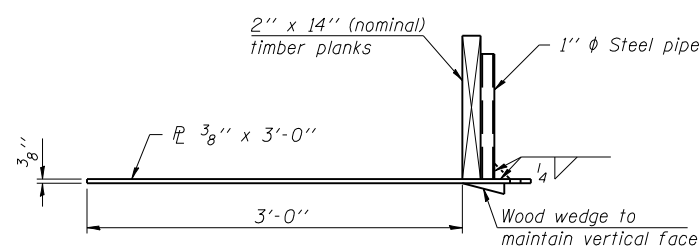
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.
3. Compact select fill material in lifts to final lift height, create ($\pm 3''$) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.
4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ($\pm 3''$) to embed geotextile and bring to final lift height.
5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

TEMPORARY GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 15 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

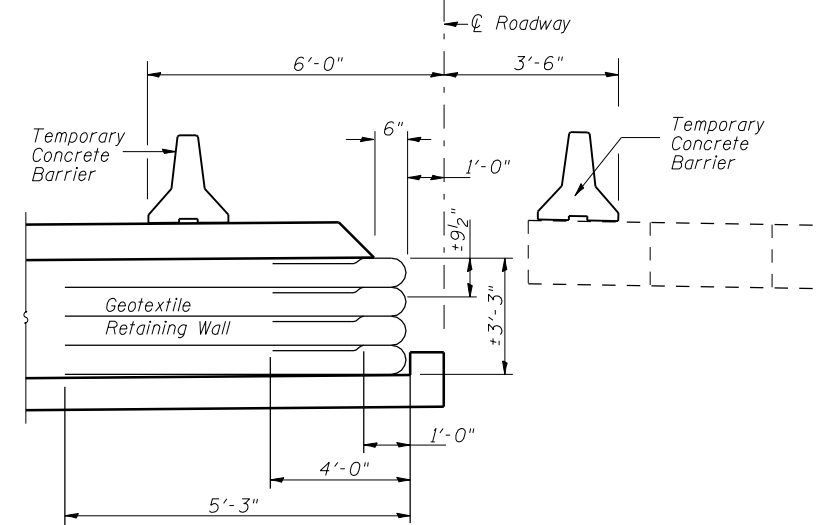


PLAN

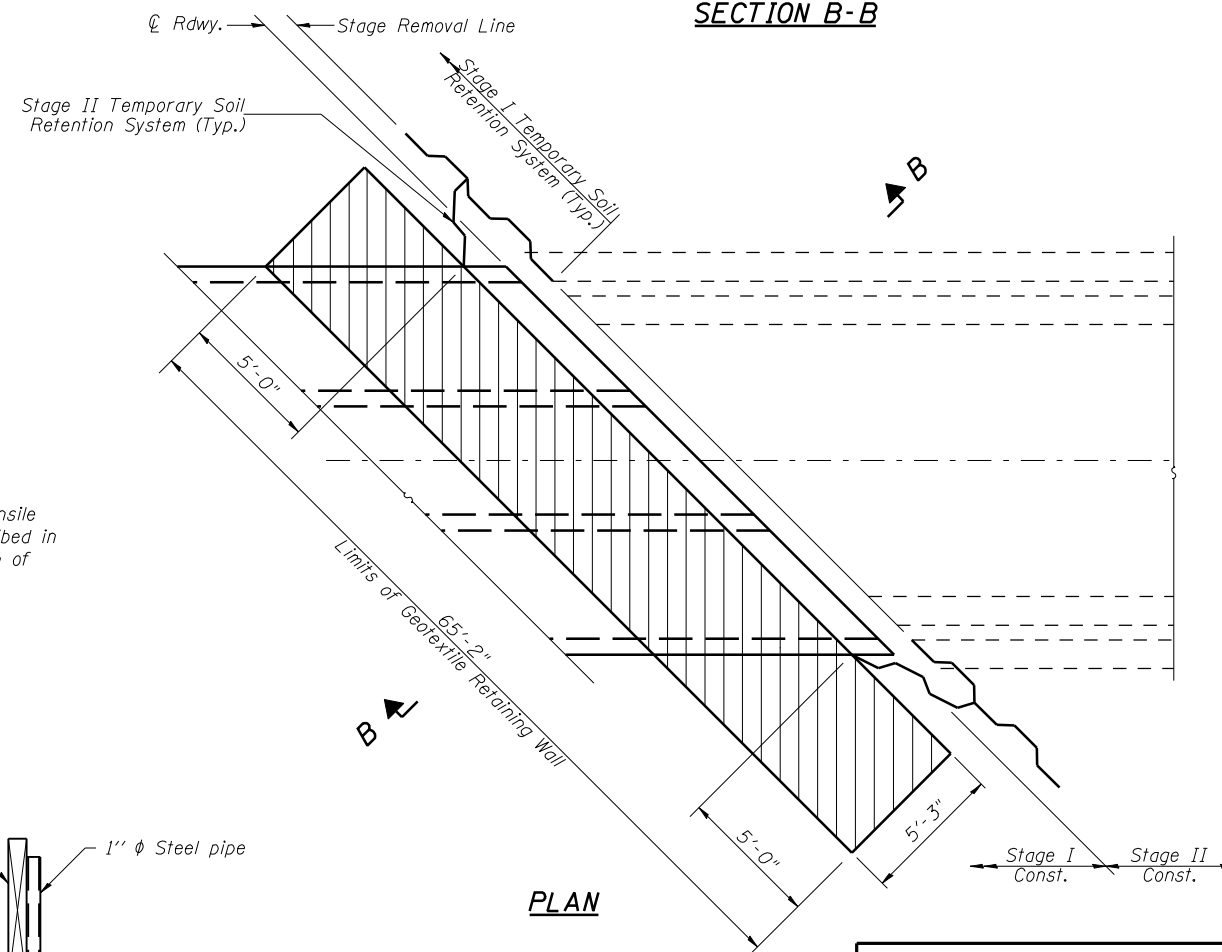


SECTION A-A

Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.



SECTION B-B



PLAN

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/CET
CHECKED	BAN

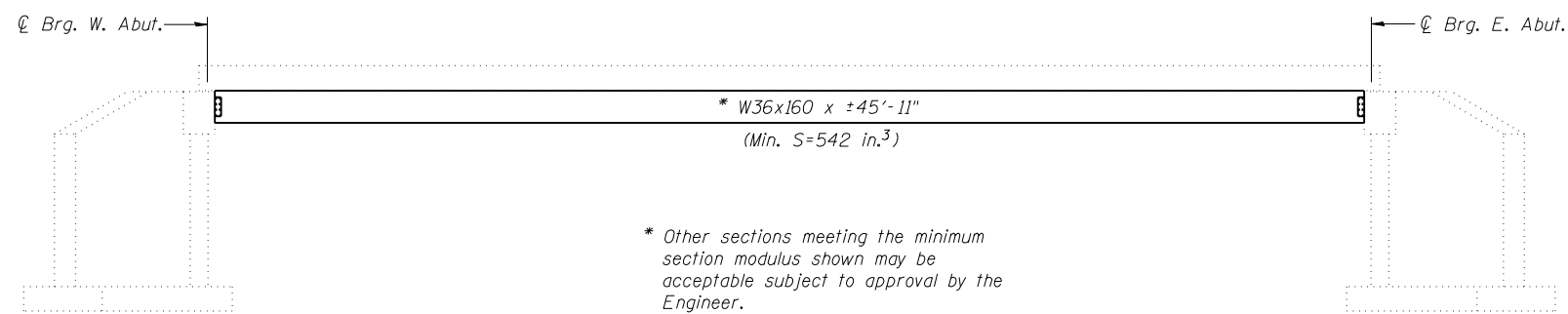
TEMPORARY GEOTEXTILE RETAINING WALL DETAILS
F.A.P. 753 (IL. 104)
OVER PANTHER CREEK
SECTION 139(B-1)
SANGAMON COUNTY
STA. 408+66.00
STR. NO. 084-2508

HUTCHISON ENGINEERING, INC.
 JACKSONVILLE, ILLINOIS
 Rev: _____ Date: _____

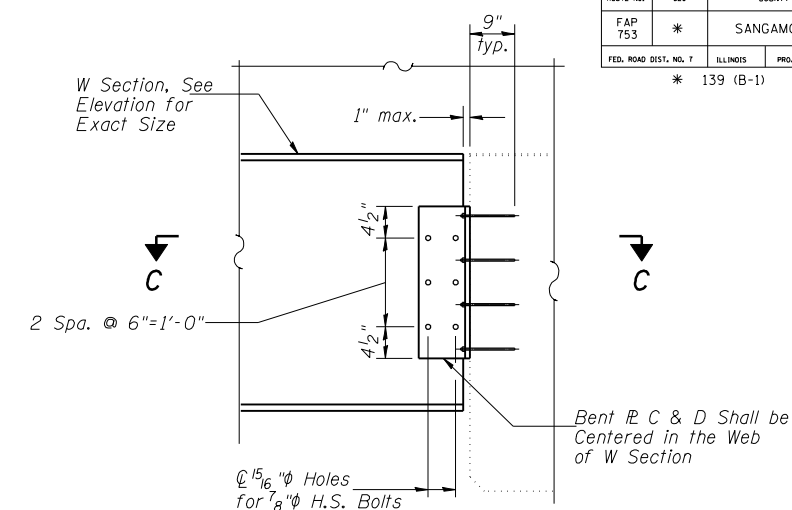
ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 753	*	SANGAMON	57	30
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

SHEET NO. 4
10 SHEETS

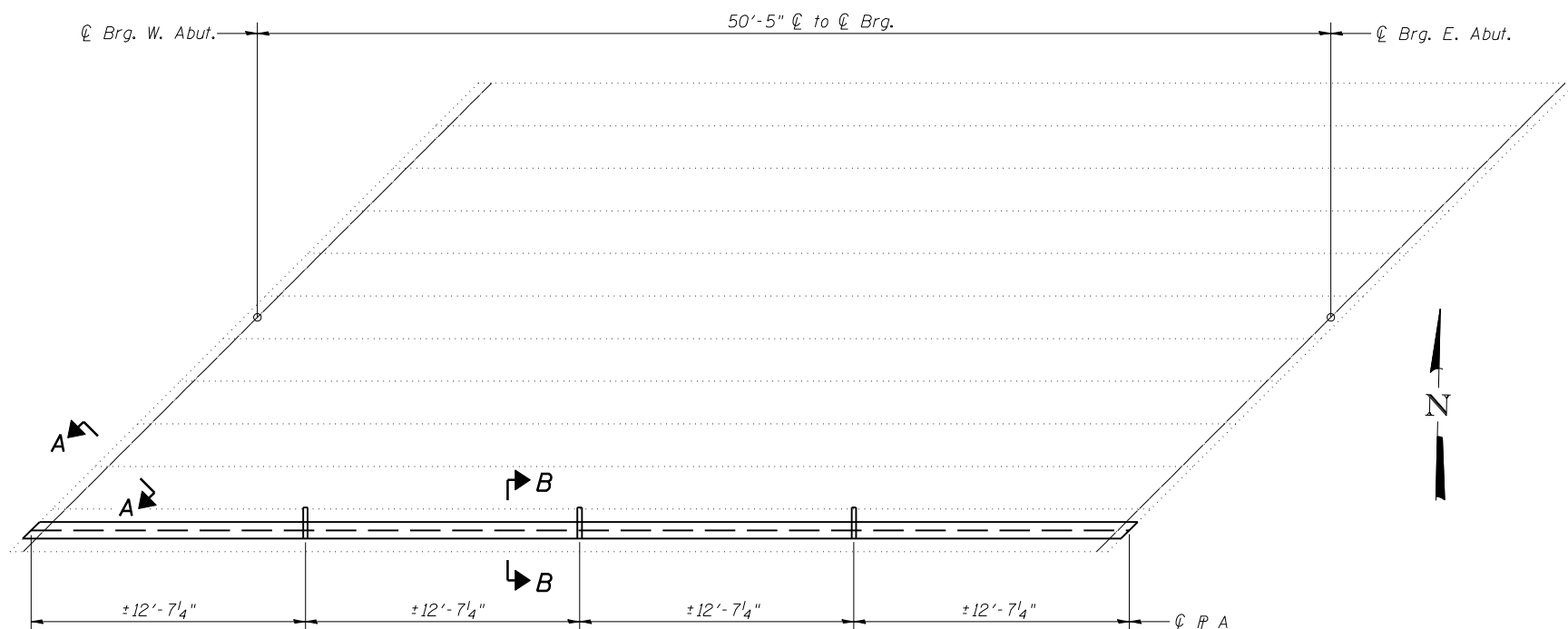
* 139 (B-1) CONTRACT NO. 72982



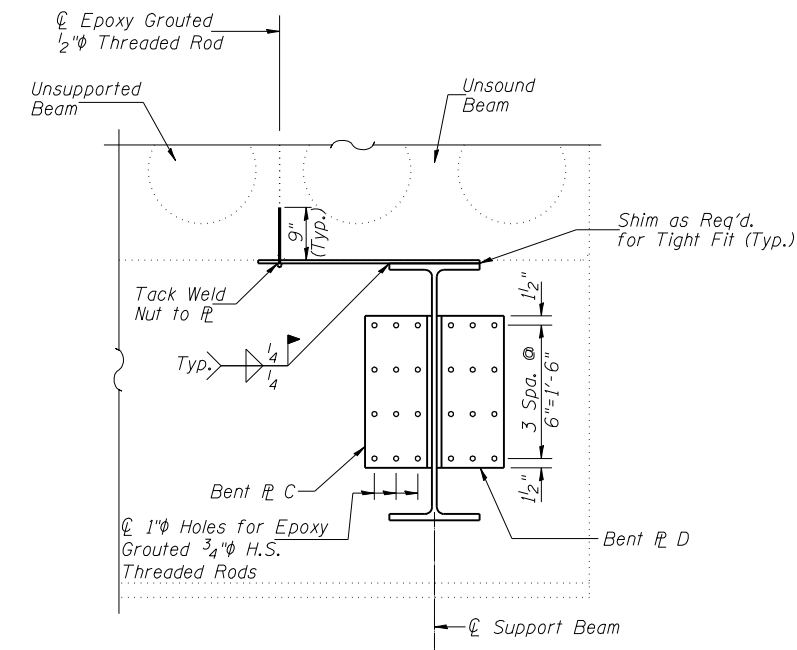
ELEVATION



**SECTION A-A
TYPICAL CONNECTION SECTION**



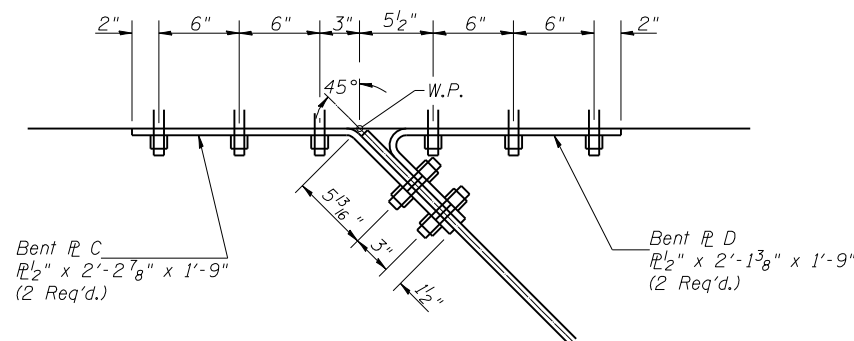
PLAN



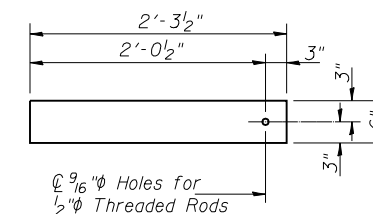
SECTION B-B

NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
 Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting the temporary support system and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, and will be paid for as Temporary Support System.
 See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods.
 The cost of epoxy grouting threaded rods shall be included with Temporary Support System.



SECTION C-C



A

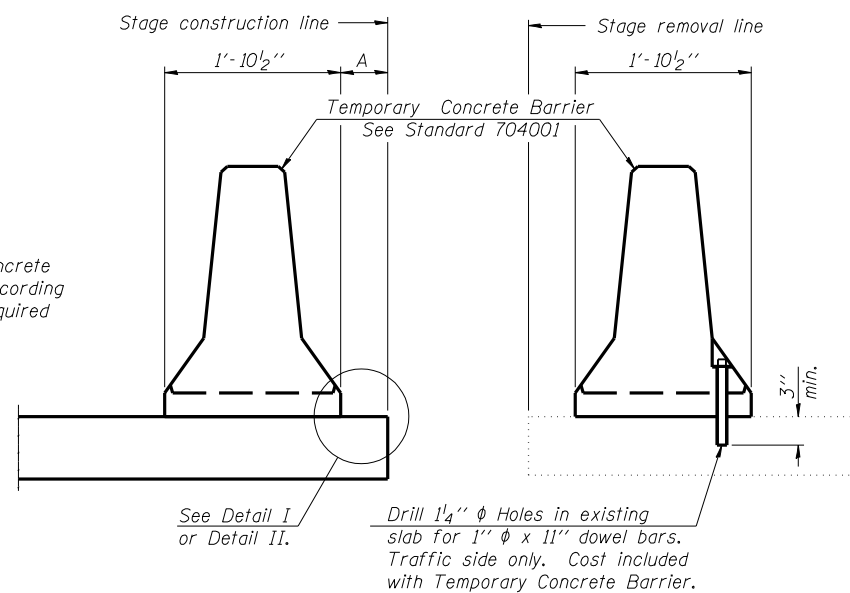
#1/2" x 2'-9 1/2" x 6"
(3 Req'd.)

DESIGNED	BAN
CHECKED	JOH
DRAWN	CET
CHECKED	BAN

**TEMPORARY SUPPORT
SYSTEM DETAILS
F.A.P. 753 (IL. 104)
OVER PANTHER CREEK
SECTION 139(B-1)
SANGAMON COUNTY
STA. 408+66.00
STR. NO. 084-2508**

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Rev: Date:

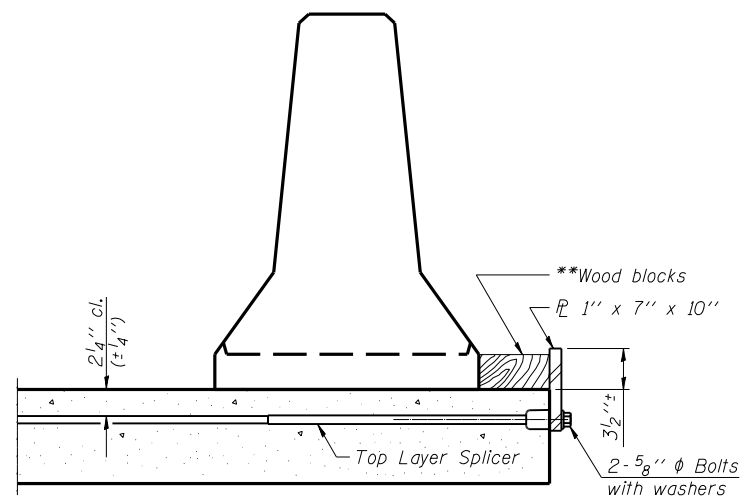
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



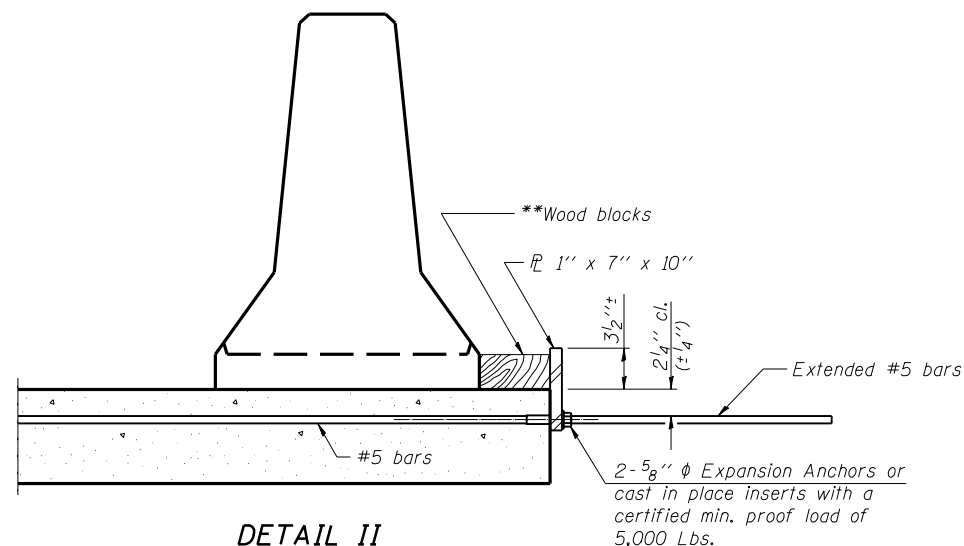
NEW SLAB

EXISTING SLAB

SECTIONS THRU SLAB



DETAIL I



DETAIL II

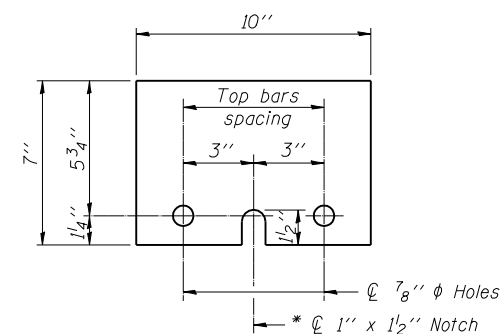
** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel PL to the top layer of couplers with 2-5/8" phi bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel PL to the concrete slab with 2-5/8" phi Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



STEEL RETAINER PL 1" x 7" x 10"

* Required only with Detail II

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC
CHECKED	BAN

R-27

11-1-06

2447-3b005

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.P. 753 (IL. 104)
OVER PANTHER CREEK
SECTION 139(B-1)
SANGAMON COUNTY
STA. 408+66.00
STR. NO. 084-2508**

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Rev: Date:

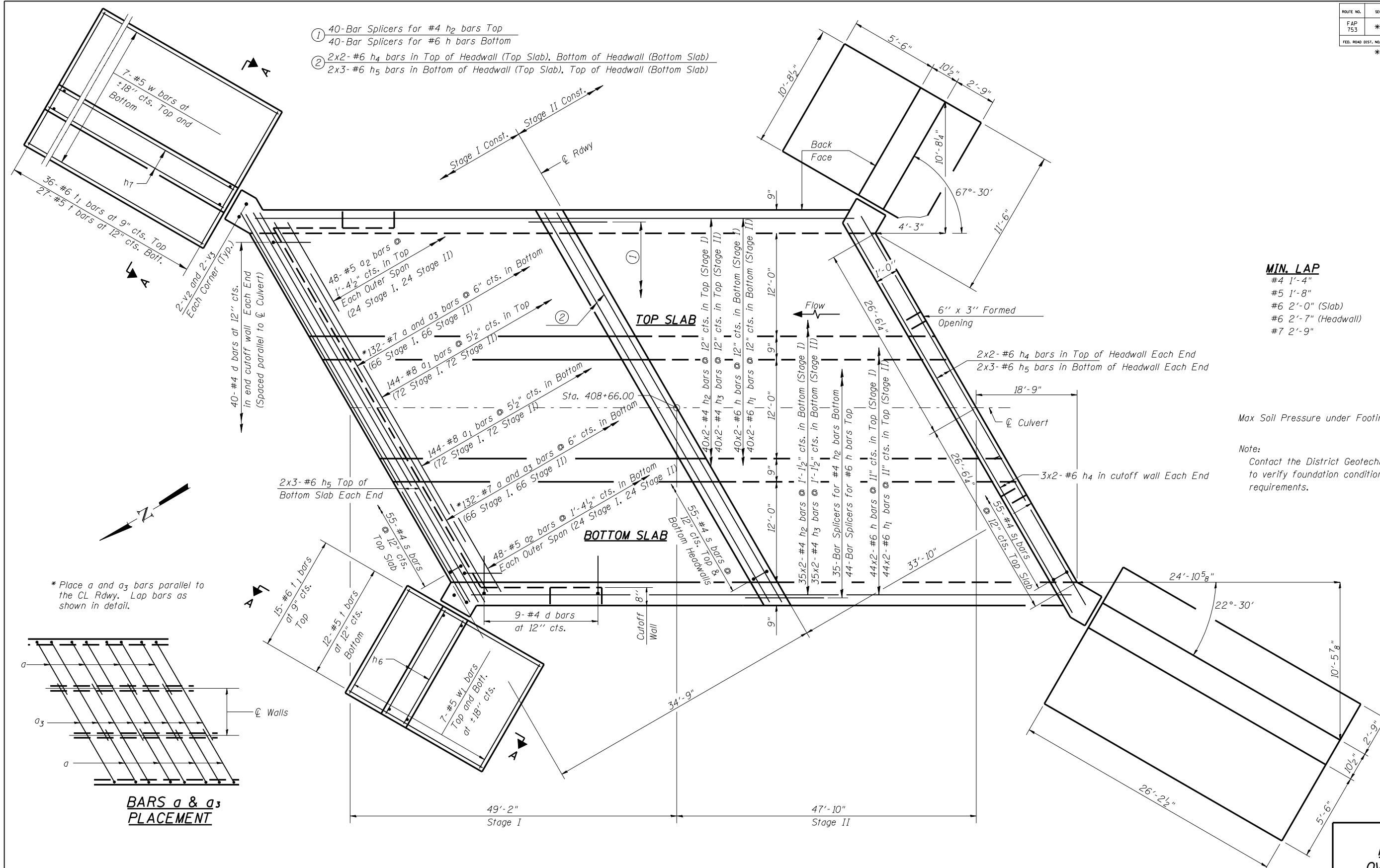
ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 753	*	SANGAMON	57	32
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

SHEET NO. 6
10 SHEETS

* 139 (B-1)

CONTRACT NO. 72982

- ① 40-Bar Splicers for #4 h₂ bars Top
40-Bar Splicers for #6 h bars Bottom
- ② 2x2-#6 h₄ bars in Top of Headwall (Top Slab), Bottom of Headwall (Bottom Slab)
2x3-#6 h₅ bars in Bottom of Headwall (Top Slab), Top of Headwall (Bottom Slab)



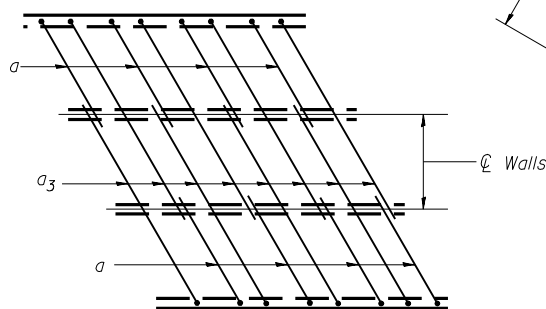
MIN. LAP

- #4 1'-4"
- #5 1'-8"
- #6 2'-0" (Slab)
- #6 2'-7" (Headwall)
- #7 2'-9"

Max Soil Pressure under Footing = 2,360 psf

Note:
Contact the District Geotechnical Engineer to verify foundation conditions meet plan requirements.

* Place a and a₃ bars parallel to the CL Rdwy. Lap bars as shown in detail.



BARS a & a₃ PLACEMENT

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/CET
CHECKED	BAN

PLAN

Notes:
For Section A-A, see Sht. 7 of 10.
Bars indicated thus 1 x 2 - #4 etc. indicates 1 line of bars with 2 lengths per line.

CULVERT DETAILS
F.A.P. 753 (IL. 104)
OVER PANTHER CREEK
SECTION 139(B-1)
SANGAMON COUNTY
STA. 408+66.00
STR. NO. 084-2508

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Rev: _____ Date: _____

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
- ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

The diameter of this part is the same as the diameter of the bar spliced.

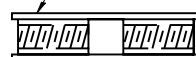


ROLLED THREAD DOWEL BAR



**** ONE PIECE**

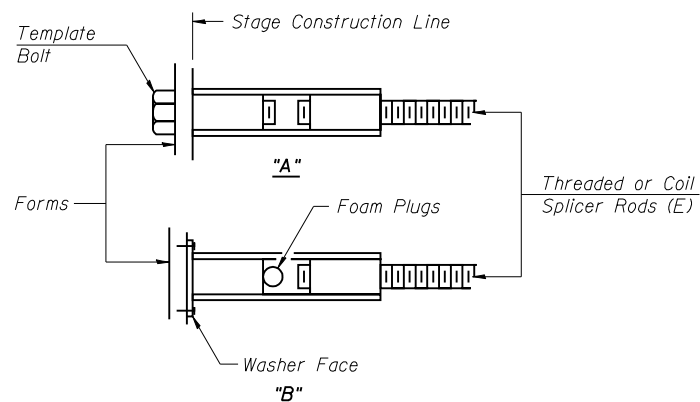
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

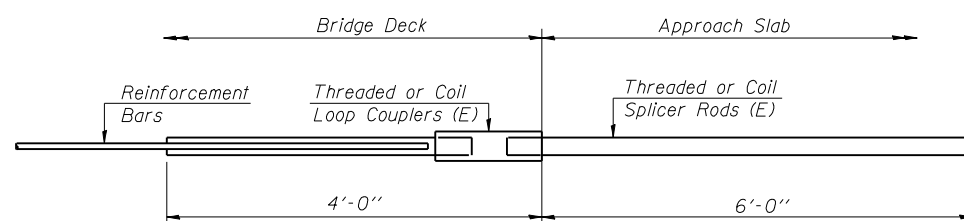


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

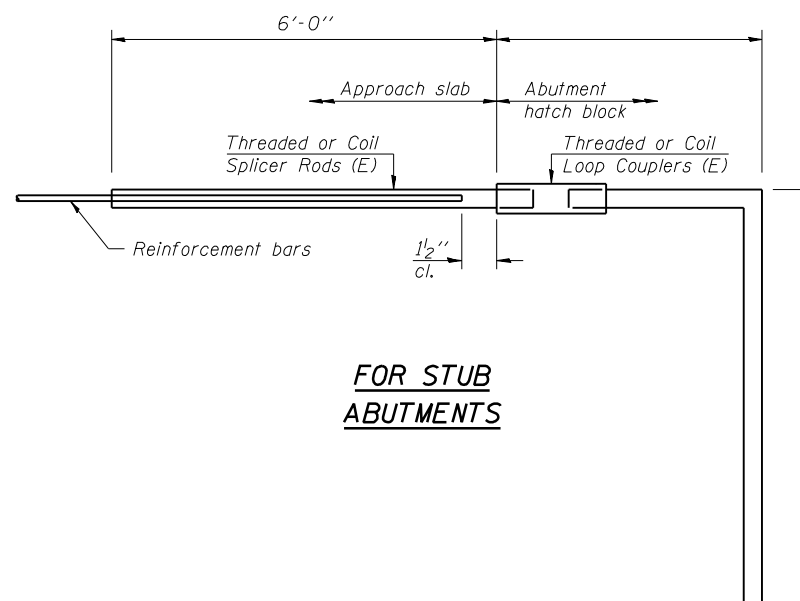
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



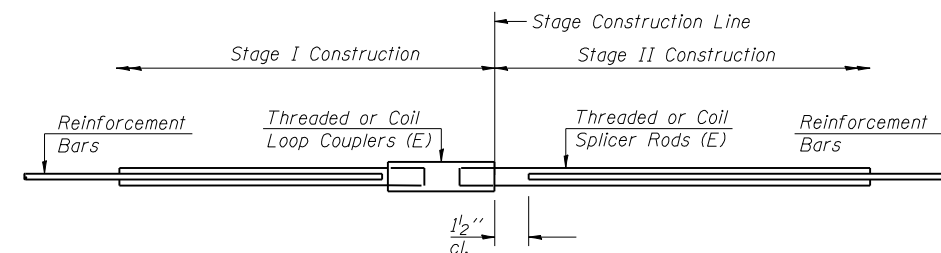
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	



FOR STUB ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	



STANDARD

Bar Size	No. Assemblies Required	Location
#4	40	Top Slab
#6	40	Top Slab
#6	36	Walls
#4	35	Bottom Slab
#6	44	Bottom Slab

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/CET
CHECKED	BAN

BAR SPLICER ASSEMBLY DETAILS
F.A.P. 753 (IL 104)
OVER PANTHER CREEK
SECTION 139(B-1)
SANGAMON COUNTY
STATION 408+66.00
STR. NO. 084-2508



Illinois Department of Transportation
Division of Highways
IDOT District 6

SOIL BORING LOG

Page 1 of 2

Date 9/13/06

ROUTE FAP 753 (IL 104) DESCRIPTION IL 104 over Panther Creek LOGGED BY M. Tappan

SECTION 139 (B-1) LOCATION NW 1/4, SEC. 9, TWP. 13 N, RNG. 6 W, 3 PM

COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 084-2508Prop
Station 084-0063 Ex
408+66

BORING NO. 1 SW WW
Station 407+86
Offset 13.0ft Rt
Ground Surface Elev. 629.9 ft

Surface Water Elev. 617.4 ft
Stream Bed Elev. 616.7 ft

Groundwater Elev.:
 First Encounter No Encounter ft
 Upon Completion Dry ft
 After Hrs. Plugged ft

DEPTH (ft)	BLU (ft)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLU (ft)	UCS (tsf)	MOIST (%)
0				CLAY LOAM (Till) (continued)	0			
1					1			
1	0.8	25		Light Brown and Grey Dry CLAY LOAM (Till) w/ 8" Silt Loam Seam	29	+10	14	
2	B			Broken Sample	59	E		
1					2			
2	1.0	25		Grey Moist CLAY LOAM (Till)	14	4.7	10	
2	B				29	S-11		
624.40				Black Moist SILTY CLAY				
1								
3	2.7	20						
4	B							
620.90				Olive Brown and Grey Moist Weathered CLAY (Till)	3			
1					14	5.2	11	
2	1.2	24			19	S-10		
4	B							
0								
1	0.7	29						
2	B							
1					2			
2	1.4	24			8	5.1	18	
2	B				14	S-13		
614.40				CLAY LOAM (Till)				
2								
22	3.3	13		Brown Moist CLAY LOAM (Till)				
10	B			Limestone Cobble at 16.5'				
1								
15	3.8	11		Brownish Grey	2			
20	S-13				12	5.0	13	
					14	B		

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Latitude: 39.10033333 N Longitude: 89.1000000 W Datum: NAD83 Job Number: 084-2508

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/CET
CHECKED	BAN



Illinois Department of Transportation
Division of Highways
IDOT District 6

SOIL BORING LOG

Page 2 of 2

Date 9/13/06

ROUTE FAP 753 (IL 104) DESCRIPTION IL 104 over Panther Creek LOGGED BY M. Tappan

SECTION 139 (B-1) LOCATION NW 1/4, SEC. 9, TWP. 13 N, RNG. 6 W, 3 PM

COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 084-2508Prop
Station 084-0063 Ex
408+66

BORING NO. 1 SW WW
Station 407+86
Offset 13.0ft Rt
Ground Surface Elev. 629.9 ft

Surface Water Elev. 617.4 ft
Stream Bed Elev. 616.7 ft

Groundwater Elev.:
 First Encounter No Encounter ft
 Upon Completion Dry ft
 After Hrs. Plugged ft

DEPTH (ft)	BLU (ft)	UCS (tsf)	MOIST (%)	DESCRIPTION
0				CLAY LOAM (Till) (continued)
2				
11	4.3	13		Grey Moist CLAY LOAM (Till)
13	B			
584.90				Boring Completed

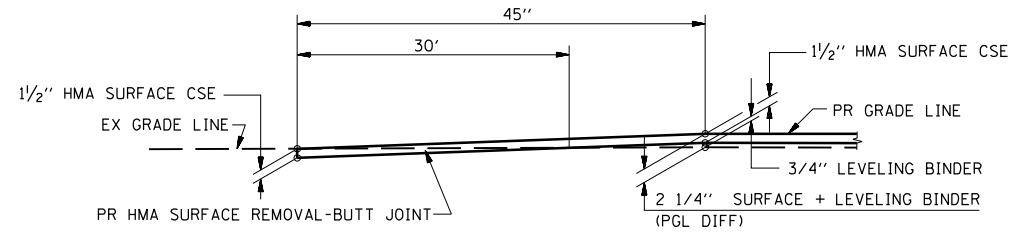
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Latitude: 39.10033333 N Longitude: 89.1000000 W Datum: NAD83 Job Number: 084-2508

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

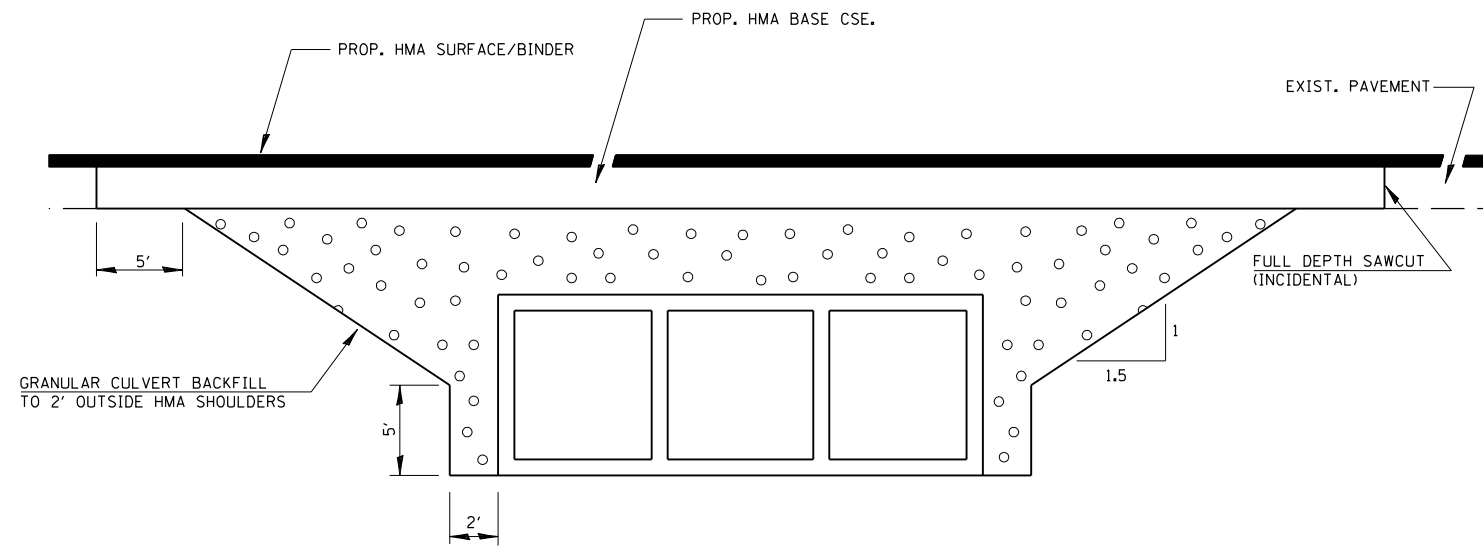
SOIL BORINGS LOGS
F.A.P. 753 (IL 104)
OVER PANTHER CREEK
SECTION 139(B-1)
SANGAMON COUNTY
STATION 408+66.00
STR. NO. 084-2508

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Rev: _____ Date: _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139 (B-1)	SANGAMON	57	37
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BUTT JOINT DETAIL



SECTION THROUGH CAST-IN-PLACE BOX CULVERT

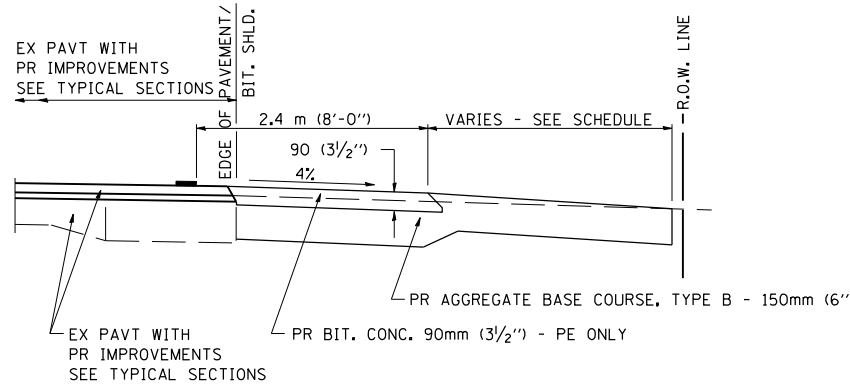
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

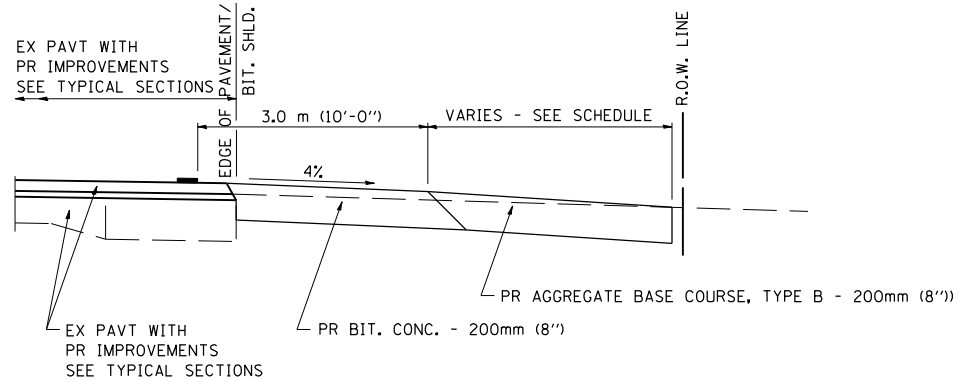
SPECIAL DETAILS

DRAWN BY JCW
 CHECKED BY JRB
 DATE: 8/15/07

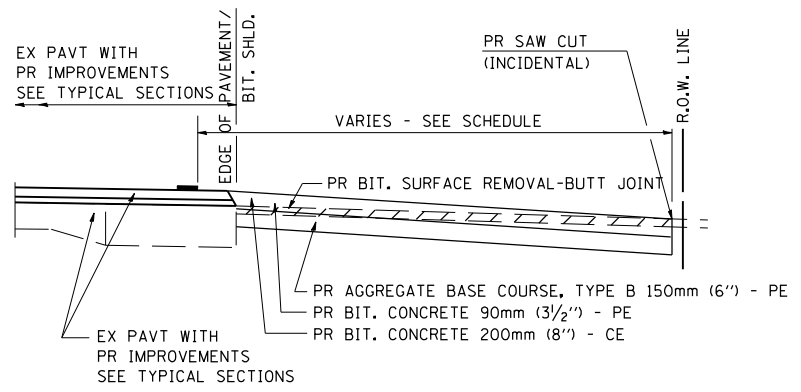
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139 (B-1)	SANGAMON	57	38
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



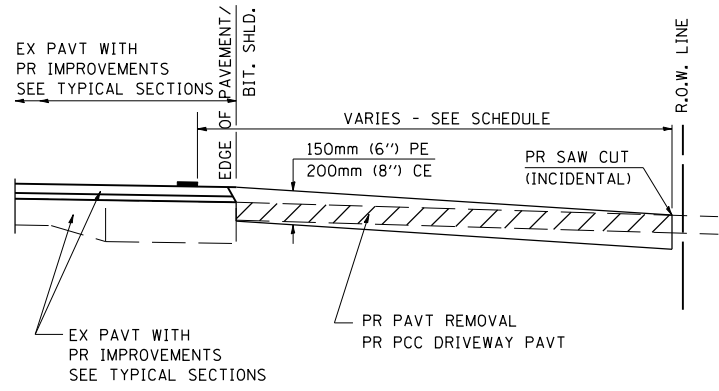
SECTION A-A FOR EX EARTH/AGGREGATE FE & PE



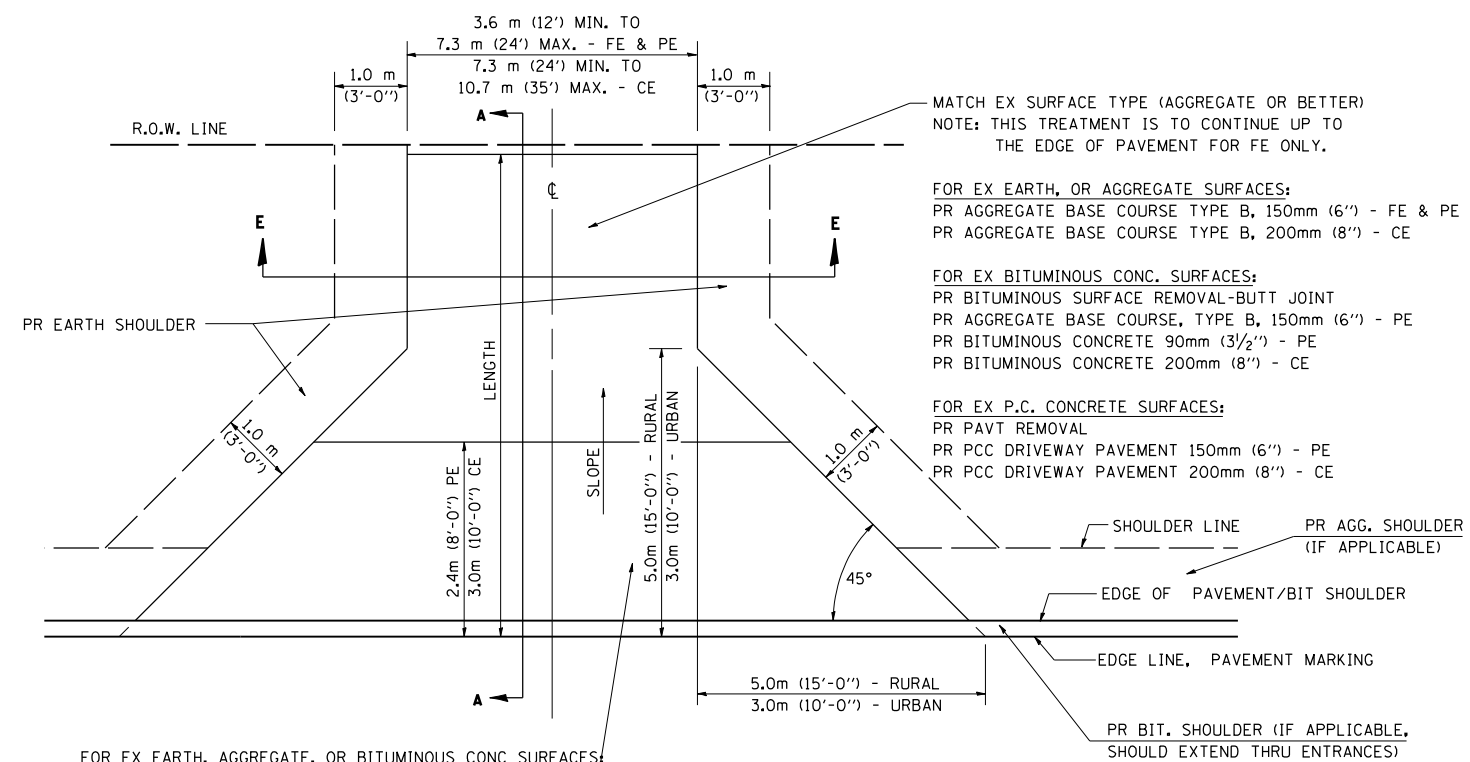
SECTION A-A FOR EX EARTH/AGGREGATE CE



SECTION A-A FOR EX BITUMINOUS PE & CE



SECTION A-A FOR EX P.C. CONC. PE & CE



FOR EX EARTH, AGGREGATE, OR BITUMINOUS CONC SURFACES:
 PR BIT SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)
 PR AGGREGATE BASE COURSE TYPE B 150mm (6") - FE
 PR AGGREGATE BASE COURSE TYPE B, 150mm (6") &
 PR BITUMINOUS CONCRETE 90mm (3/2") - PE
 PR BITUMINOUS CONCRETE 200mm (8") - CE

FOR P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVT 150mm (6") - PE
 PR PCC DRIVEWAY PAVT 200mm (8") - CE

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

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

NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

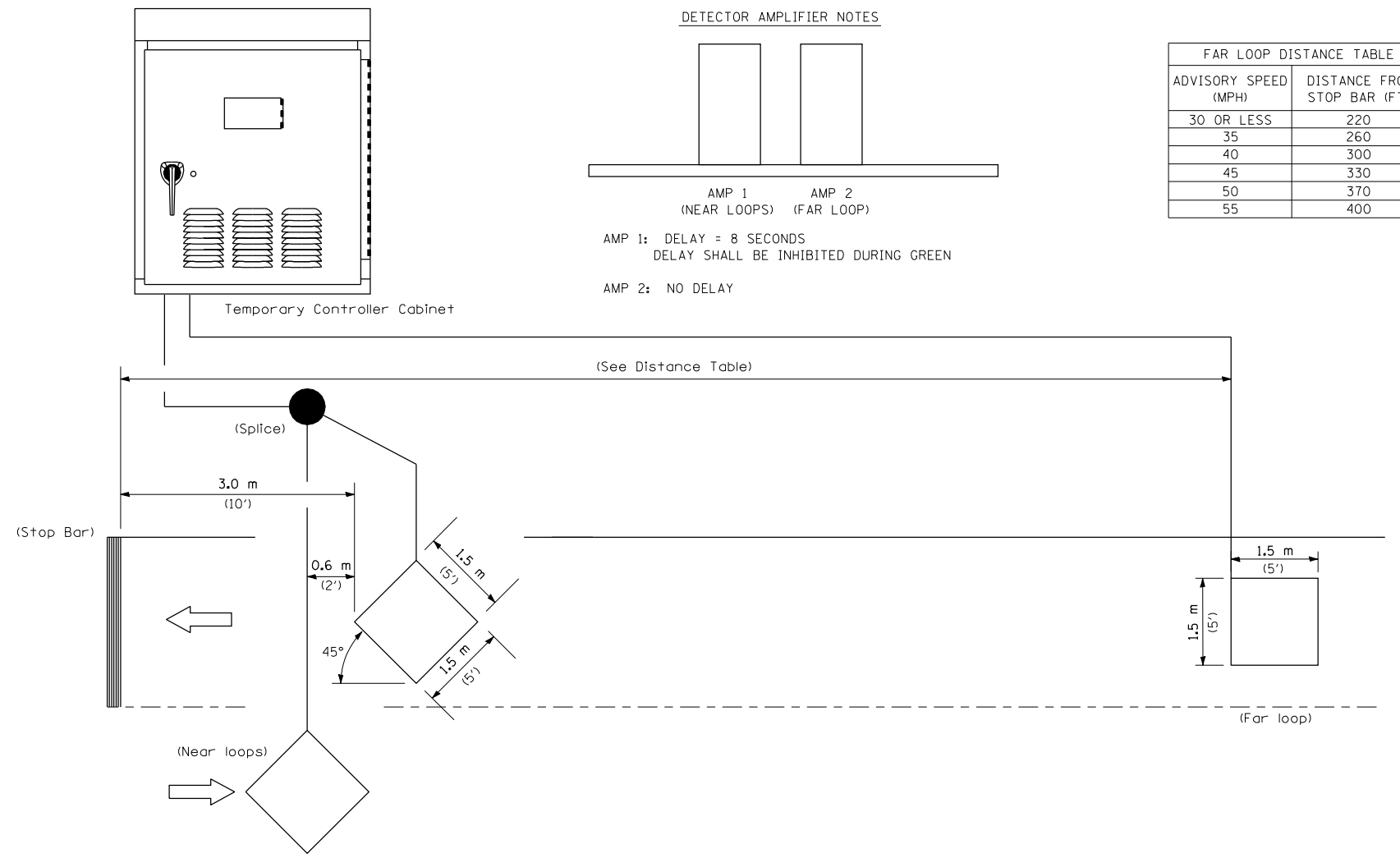
REVISIONS	
NAME	DATE
JCN	2/19/03
JCN	4/01/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT SIX
DETAILS FOR RURAL / URBAN
ENTRANCE & MAILBOX TURNOUT
W/O CONCRETE GUTTER
(3R - PROJECTS)

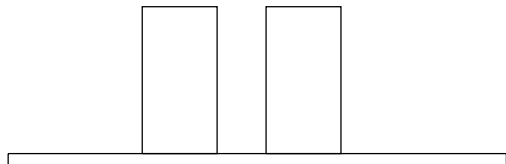
DATE 8/15/07
 DRAWN BY JCV
 CHECKED BY JRB

PLOT DATE = Aug-17-2007 10:47:48AM
 FILE NAME = c:\projects\652895\hutchison_rnal\2447-3d881.dgn
 PLOT SCALE = 42.353 1 / IN.
 USER NAME = laughlinr1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139 (B-1)	SANGAMON	57	39
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DETECTOR AMPLIFIER NOTES



AMP 1: DELAY = 8 SECONDS
 DELAY SHALL BE INHIBITED DURING GREEN

AMP 2: NO DELAY

ADVISORY SPEED (MPH)	DISTANCE FROM STOP BAR (FT.)
30 OR LESS	220
35	260
40	300
45	330
50	370
55	400

NOTE: All loops centered in lane.

INDUCTION LOOP DETECTOR

PLOT DATE = Aug-17-2007 10:47:52AM
 FILE NAME = c:\projects\652895\hutchison_rnal\2447-3d\802.dgn
 PLOT SCALE = 1/8"=1'-0" / IN.
 USER NAME = laughlin-1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SPECIAL DETAILS

DATE: 8/15/07
 DRAWN BY JCW
 CHECKED BY JRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139 (B-1)	SANGAMON	57	40
STA. 403+50		TO STA. 404+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

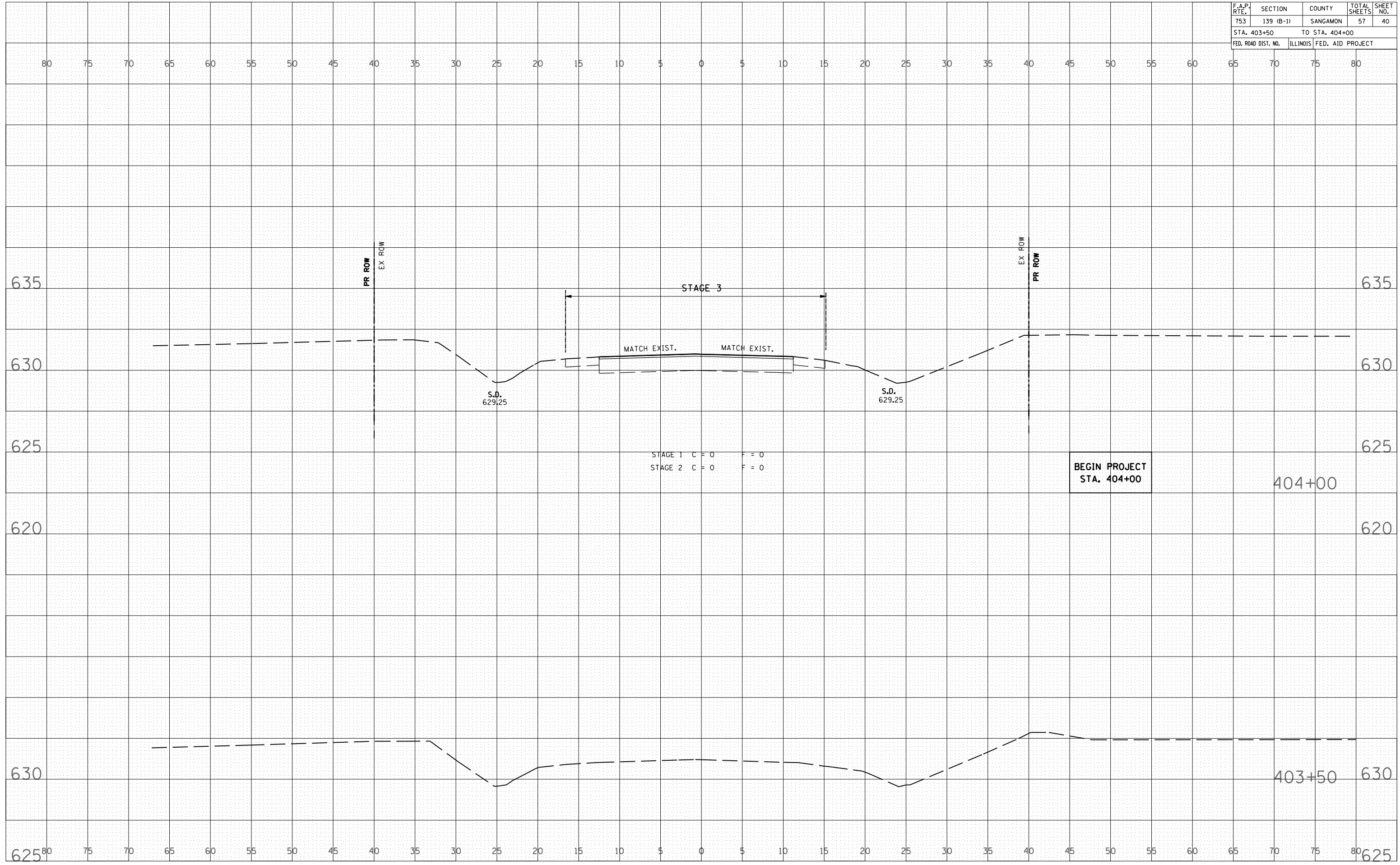
BY	DATE

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

BY	DATE

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

PLOT DATE = Aug-17-2007 10:45:08AM
 FILE NAME = I:\2007\1015582\1015582.dwg
 PLOT SCALE = 10:1582
 USER NAME = laughlin-1



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139 (B-1)	SANGAMON	57	46
STA. 408+00		TO STA. 408+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

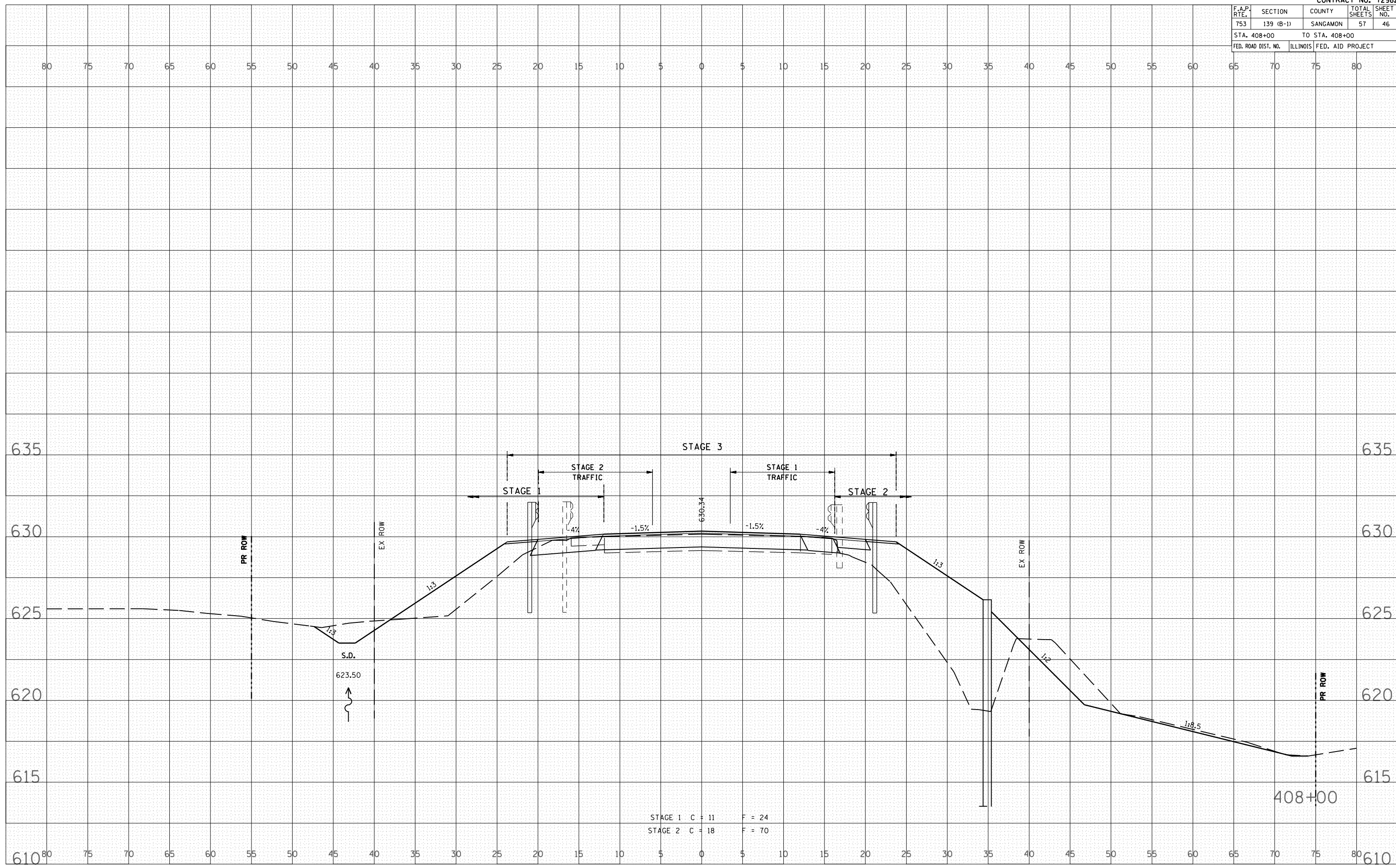
BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = Aug-17-2007 10:45:04 AM
 FILE NAME = I:\2007\1015582\1015582.dwg
 PLOT SCALE = 10.5682
 USER NAME = laughtin-1



STAGE 1	C = 11	F = 24
STAGE 2	C = 18	F = 70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139 (B-1)	SANGAMON	57	47
STA. 408+50		TO STA. 408+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

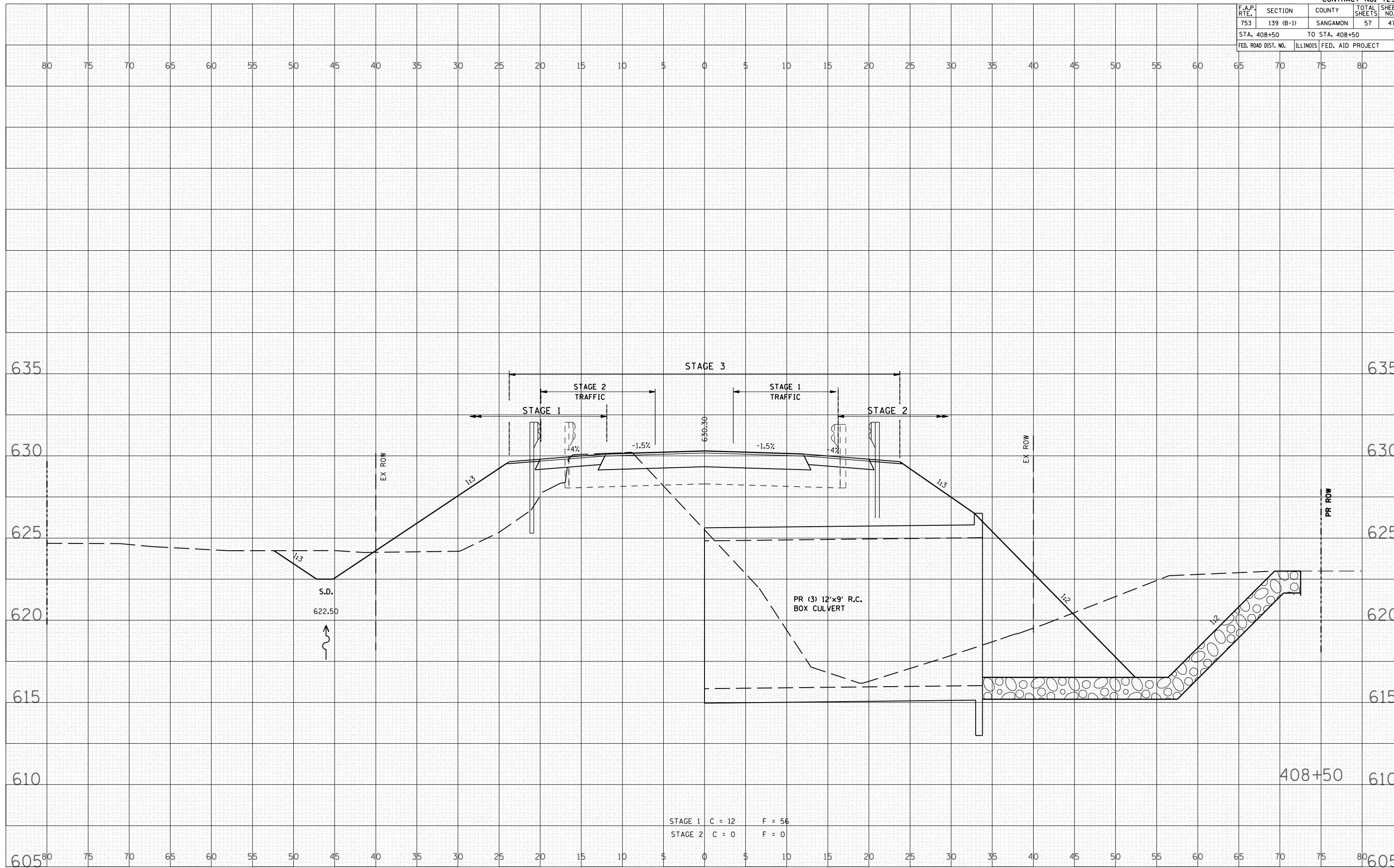
BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = Aug-17-2007 10:45:05AM
 FILE NAME = I:\2007\1015582\1015582.dwg
 PLOT SCALE = 10.5682
 USER NAME = laughtlin-1



STAGE 1 C = 12 F = 56
 STAGE 2 C = 0 F = 0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139 (B-1)	SANGAMON	57	55
STA. 412+00		TO STA. 412+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

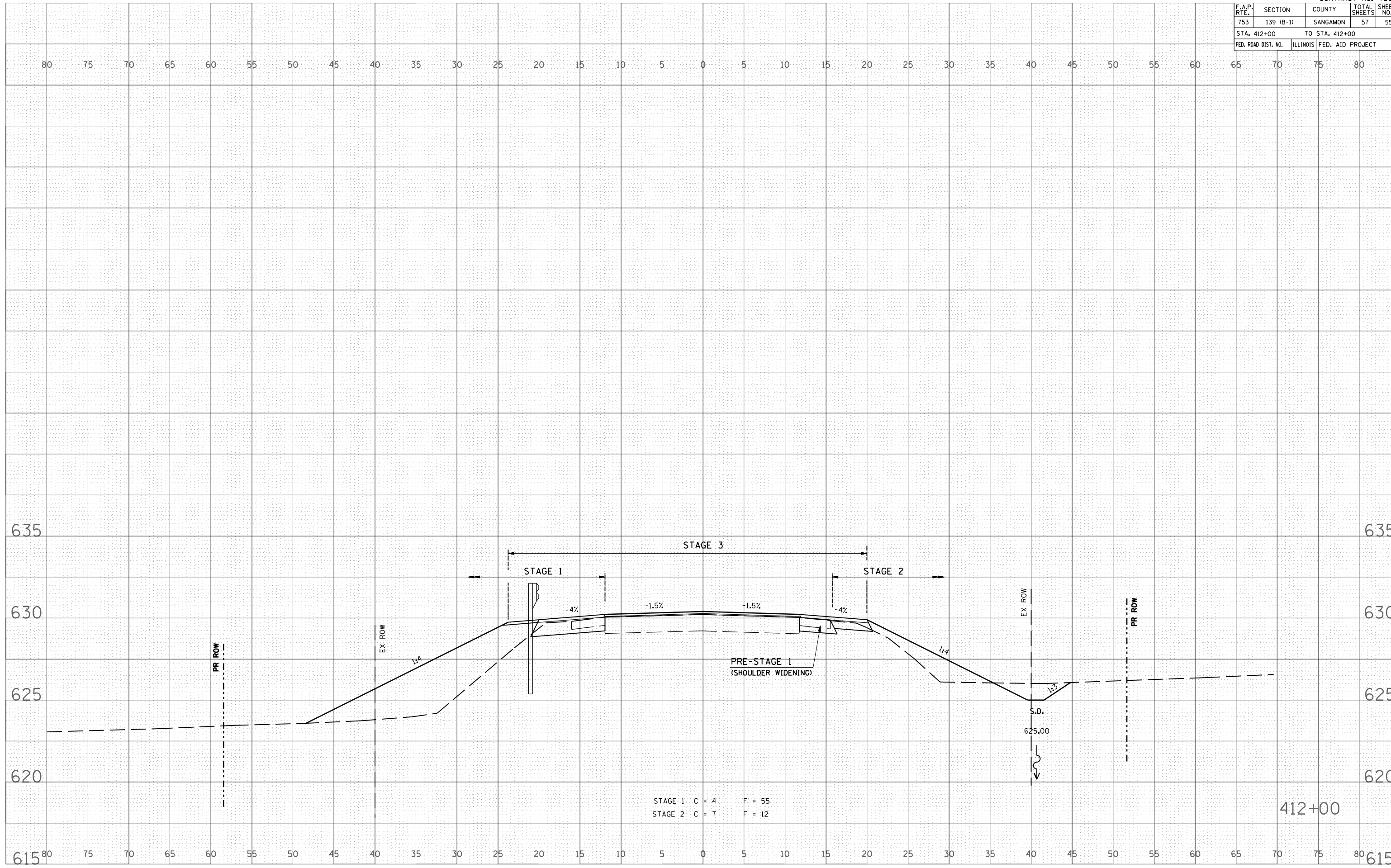
BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

PLOT DATE = Aug-17-2007 10:45:11AM
 FILE NAME = I:\PROJECTS\72982\Drawings\72982-139\72982-139-55.dwg
 PLOT SCALE = 10.0000
 USER NAME = laughlin-1



STAGE 1 C = 4 F = 55
 STAGE 2 C = 7 F = 12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
753	139 (B-1)	SANGAMON	57	56
STA. 412+50		TO STA. 413+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE = Aug-17-2007 10:46:12AM
 FILE NAME = I:\62982\Drawings\1015582.dwg
 PLOT SCALE = 10.5682
 USER NAME = laughtlin-1

