85592

11-08-13 LETTING ITEM 055

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	1
	ILLINOIS	CONTRACT NO. 85592		

INDEX OF SHEETS

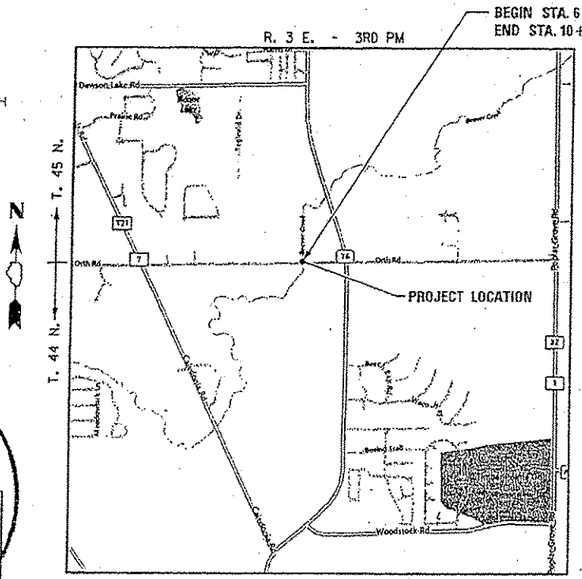
LIST OF STANDARDS

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 SPL GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER REPLACEMENT
667101-02	PERMANENT SURVEY MARKERS
701006-04	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701901-02	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS
780001-03	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 23-4	TRAFFIC BARRIER TERMINAL, TYPE 1
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED BRIDGE REPLACEMENT FAU ROUTE 5208 (ORTH ROAD) over BEAVER CREEK

SECTION 12-00089-00-BR
BOONE COUNTY
PROJECT BRM-5099(110)
JOB #C-92-025-13



LOCATION MAP

3000 0 3000 6000
SCALE IN FEET
NET LENGTH = 320 FEET (0.06 MILES)

PROPOSED IMPROVEMENTS:

REMOVAL AND REPLACEMENT OF TWO-SPAN PPC DECK BEAM BRIDGE CARRYING FAU RT. 5208 (ORTH RD.) OVER BEAVER CREEK AT STA. 8+40. NEW BRIDGE CONSISTS OF THREE-SPAN REINFORCED CONCRETE SLAB BRIDGE.

TRAFFIC DATA:

FUNCTIONAL CLASSIFICATION: RURAL COLLECTOR
2013 ADT : 1990 (1% TRUCKS)
DESIGN SPEED : 50 MPH

PLAN SHEET SCALES: HORIZ. = 20, VERT. = 5

CROSS SECTION SHT. SCALES: HORIZ. = 10, VERT. = 1

LOCATION OF SECTION INDICATED THUS:~

APPROVED MAY 9 20 13
TIMBERLANE VILLAGE PRESIDENT

APPROVED MAY 9 20 13
BOONE COUNTY ENGINEER

PASSED Sept 9 20 13
DISTRICT 2 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW Sept 9 20 13
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, 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 ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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

KEVIN C. BUNGE
062-045735
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
SIGNATURE
5/10/13
DATE
LIC. EXP. DATE: 11/30/13

THE P.E. SEAL PROVIDED ABOVE PERTAINS TO THE DESIGN, DETAILS AND INFORMATION SHOWN ON SHEETS 3 THRU 6 AND 18 THRU 20, WHICH WERE PROVIDED BY CIVIL ENGINEERING SERVICES INC.

STUART M. KEMP
002 044427
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
Stuart M. Kemp
SIGNATURE
5/8/2013
DATE
LIC. EXP. DATE: 11/30/2013

HANSON
HANSON PROFESSIONAL SERVICES INC.
6775 FINCHAM DRIVE
ROCKFORD, IL 61108-3001

ILLINOIS DESIGN FIRM LICENSE NO: 184-001-084

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 85592

85592

GENERAL NOTES

1. THE CONSTRUCTION SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES ON SITE PRIOR TO ANY CONSTRUCTION AND WILL BE HELD RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THEIR FACILITIES. THE CONTRACTOR, ON SITE, SHALL DETERMINE THE EXACT LOCATIONS OF THE UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. @ 1-800-892-0123 or 811 FOR UTILITY LOCATIONS.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
4. ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES DURING ALL STAGES OF CONSTRUCTION.
5. EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
6. THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
7. WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A FULL DEPTH SAWCUT SHALL BE MADE TO ACHIEVE A NEAT BUTT JOINT. THE SAWCUT IS TO BE INCLUDED IN THE COST OF PAVEMENT REMOVAL (HMA).
8. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE COUNTY ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
9. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
10. OBJECT MARKER SIGNS (OM3-L & R) LOCATED AT THE ENDS OF THE GUARDRAIL SHALL BE REMOVED AND REMAIN THE PROPERTY OF THE BOONE COUNTY HIGHWAY DEPARTMENT. THE SIGNS SHALL BE REPLACED IF THEY ARE DAMAGED DURING REMOVAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR GUARDRAIL REMOVAL.
11. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
12. ALL SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
13. ADJUSTMENT OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
14. ANY DAMAGE TO THE EXISTING PAVEMENT TO REMAIN DURING ANY CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
15. THE OWNER RESERVES THE RIGHT TO REDUCE ANY QUANTITY OR DELETE ANY PAY ITEMS FROM THIS CONTRACT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
16. ALL ELEVATIONS, STATIONS, AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
17. ALL REFERENCES TO THE "DEPARTMENT" OR "ENGINEER" IN THE I.D.O.T. STANDARD SPECIFICATIONS SHALL BE CONSTRUED TO MEAN THE BOONE COUNTY ENGINEER OR HIS AGENT.
18. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
19. THE CONTRACTOR SHALL USE ANY ON SITE MATERIAL DEEMED SUITABLE BY THE ENGINEER BEFORE ANY NEW FILL IS HAULED TO THE SITE.
20. THE RESIDENT ENGINEER (RE) AND/OR RESIDENT CONSTRUCTION OBSERVER (RCO) WILL BE RESPONSIBLE FOR MONITORING THE CONTRACTOR'S ACTIVITIES RELATIVE TO BEST MANAGEMENT PRACTICES (BMPs) TO REDUCE EROSION AND SILTATION. REGULAR INSPECTIONS TO VERIFY PROPER WORKING ORDER AND MAINTENANCE OF BMPs WILL BE MADE WEEKLY BY THE RE OR RCO. ADDITIONAL INSPECTIONS WILL BE MADE FOLLOWING RAIN EVENTS OF 0.5-INCH OR GREATER. THE CONTRACTOR WILL CORRECT ANY NOTED DEFICIENCIES IMMEDIATELY.

UTILITY NAME	TYPE	PHONE NO.	EMAIL
NICOR GAS SCOTT PUFFER	GAS	(815) 378-5750	SPUFFER@NICOR.COM
COMED NORA FERNANDEZ	ELECTRIC	(815) 490-2335	NORA.FERNANDEZ@COMED.COM
FRONTIER PAULO JAVIER	TELEPHONE	(815) 547-0395	PAULO.T.JAVIER@FTR.COM
COMCAST TOM YUCCAS	CABLE	(815) 395-8914	THOMAS_YUCCAS@CABLE.COMCAST.COM

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0011

	CODED PAY ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18
	20300100	CHANNEL EXCAVATION	CU YD	298
	21101615	TOPSOIL, FURNISH AND PLACE, 4"	SQ YD	954
	25000210	SEEDING, CLASS 2A	ACRE	0.2
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18
	25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	18
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18
	25100630	EROSION CONTROL BLANKET	SQ YD	954
	28000305	TEMPORARY DITCH CHECKS	FOOT	20
	28000400	PERIMETER EROSION BARRIER	FOOT	295
*	28100107	STONE RIPRAP, CLASS A4	SQ YD	238
	28200200	FILTER FABRIC	SQ YD	216
	35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	609
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	225
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	63
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	63
	48101500	AGGREGATE SHOULDER, TYPE B 6"	SQ YD	225
*	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	132
	50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	2
	50300225	CONCRETE STRUCTURES	CU YD	96.2
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	185.1
	50300260	BRIDGE DECK GROOVING	SQ YD	353
	50300300	PROTECTIVE COAT	SQ YD	386
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	57,600
Δ	50901050	STEEL RAILING, TYPE SM	FOOT	212
	51200957	FURNISHING METAL SHELL PILES 12' X 0.25'	FOOT	560
	51202305	DRIVING PILES	FOOT	560
	51203200	TEST PILE METAL SHELLS	EACH	4
	51204650	PILE SHOES	EACH	26
	51500100	NAME PLATES	EACH	1
	542D0220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	46
Δ	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POST	FOOT	37.5
Δ	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
* Δ	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3
	63200310	GUARDRAIL REMOVAL	FOOT	199
	67100100	MOBILIZATION	L SUM	1
Δ	78001110	PAINT PAVEMENT MARKING - LINE 4 INCH	FOOT	856
Δ	78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
Δ	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Δ *	LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1
*	X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	316
*	X6670105	PERMANENT SURVEY MARKERS (SPECIAL)	EACH	1
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
*	XX006821	CONCRETE TRUCK WASHOUT	L SUM	1
*	XX006846	AGGREGATE FIELD ENTRANCE	SQ YD	29
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1

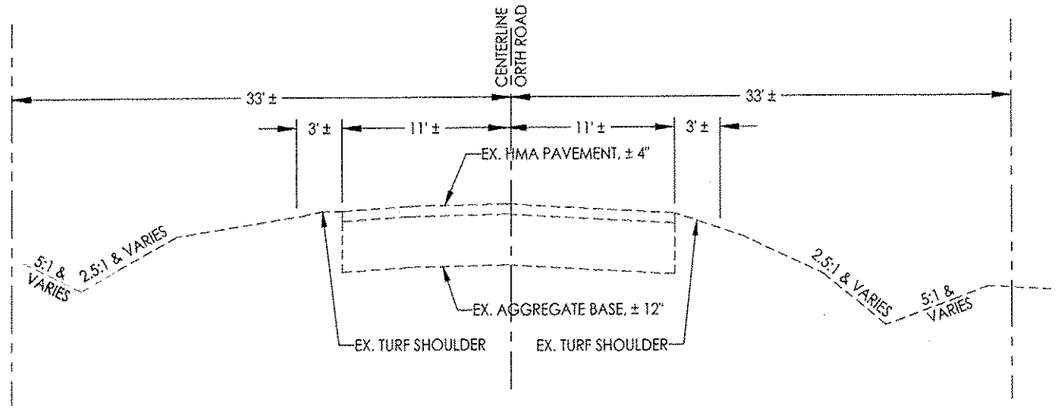
* - SEE SPECIAL PROVISIONS, HIGHWAY STANDARDS, GENERAL NOTES, AND/OR DETAILS IN PLANS
Δ - SPECIALTY ITEMS

85592

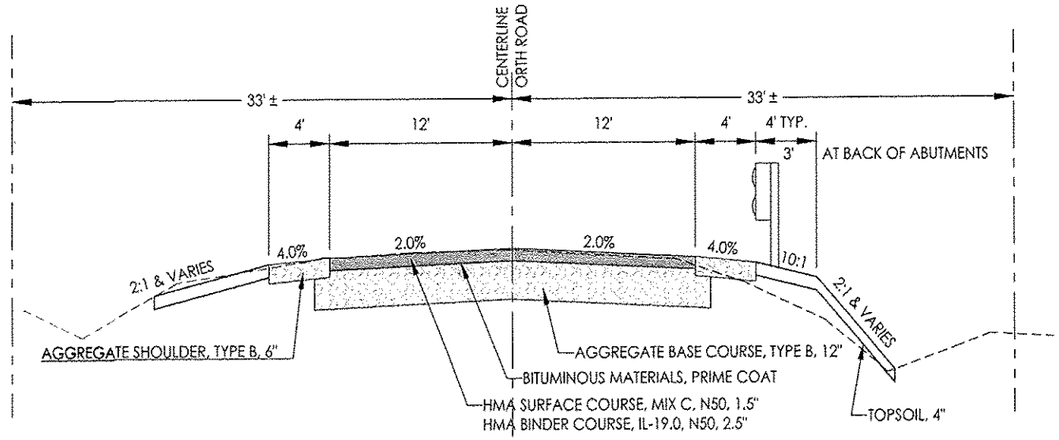
SCHEDULE OF QUANTITIES

		QUANTITY	UNIT
TREE REMOVAL (6 TO 15 UNITS DIAMETER)			
STA. 8+66 - 28' R		18	UNIT
	TOTAL =	**18**	**UNIT**
EARTH EXCAVATION (SPECIAL)			
STA. 6+40 -7+86		152	CU YD
STA. 8+94 - 10+00		164	CU YD
	TOTAL =	**316**	**CU YD**
TOPSOIL FUNISH AND PLACE, 4"			
STA. 6+40 - 7+86 - 10' - 31' R		257	SQ YD
STA. 6+53 - 7+03 - 11' - 30' L		79	SQ YD
STA. 7+15 - 7+86 - 16' - 33' L		112	SQ YD
STA. 8+94 - 10+25 - 10' - 31' R		223	SQ YD
STA. 8+94 - 10+32 - 11' - 35' L		283	SQ YD
	TOTAL =	**954**	**SQ YD**
SEEDING, CLASS 2A			
STA. 6+40 - 7+86 - 10' - 31' R		0.053	ACRE
STA. 6+53 - 7+03 - 11' - 30' L		0.016	ACRE
STA. 7+15 - 7+86 - 16' - 33' L		0.023	ACRE
STA. 8+94 - 10+25 - 10' - 31' R		0.046	ACRE
STA. 8+94 - 10+32 - 11' - 35' L		0.058	ACRE
	TOTAL =	**0.196**	**ACRE**
NITROGEN FERTILIZER NUTRIENT			
STA. 6+40 - 7+86 - 10' - 31' R		4.7	POUND
STA. 6+53 - 7+03 - 11' - 30' L		1.4	POUND
STA. 7+15 - 7+86 - 16' - 33' L		2.1	POUND
STA. 8+94 - 10+25 - 10' - 31' R		4.1	POUND
STA. 8+94 - 10+32 - 11' - 35' L		5.2	POUND
	TOTAL =	**17.5**	**POUND**
PHOSPHORUS FERTILIZER NUTRIENT			
STA. 6+40 - 7+86 - 10' - 31' R		4.7	POUND
STA. 6+53 - 7+03 - 11' - 30' L		1.4	POUND
STA. 7+15 - 7+86 - 16' - 33' L		2.1	POUND
STA. 8+94 - 10+25 - 10' - 31' R		4.1	POUND
STA. 8+94 - 10+32 - 11' - 35' L		5.2	POUND
	TOTAL =	**17.5**	**POUND**
POTASSIUM FERTILIZER NUTRIENT			
STA. 6+40 - 7+86 - 10' - 31' R		4.7	POUND
STA. 6+53 - 7+03 - 11' - 30' L		1.4	POUND
STA. 7+15 - 7+86 - 16' - 33' L		2.1	POUND
STA. 8+94 - 10+25 - 10' - 31' R		4.1	POUND
STA. 8+94 - 10+32 - 11' - 35' L		5.2	POUND
	TOTAL =	**17.5**	**POUND**
EROSION CONTROL BLANKET			SQ YD
STA. 6+40 - 7+86 - 10' - 31' R		257	SQ YD
STA. 6+53 - 7+03 - 11' - 30' L		79	SQ YD
STA. 7+15 - 7+86 - 16' - 33' L		112	SQ YD
STA. 8+94 - 10+25 - 10' - 31' R		223	SQ YD
STA. 8+94 - 10+32 - 11' - 35' L		283	SQ YD
	TOTAL =	**954**	**SQ YD**
TEMPORARY DITCH CHECKS			
STA. 7+86 R		10	FOOT
STA. 7+86 L		10	FOOT
	TOTAL =	**20**	**FOOT**
PERIMETER EROSION BARRIER			
STA. 8+94 - 10+25 - R		143	FOOT
STA. 8+94 - 10+32 - L		152	FOOT
	TOTAL =	**295**	**FOOT**
STONE RIPRAP, CLASS A4			
STA. 7+86 - 8+11		119	SQ YD
STA. 8+69 - 8+94		119	SQ YD
	TOTAL =	**238**	**SQ YD**
AGGREGATE BASE COURSE, TYPE B, 12"			
STA. 6+80 - 7+86		305	SQ YD
STA. 8+94 - 10+00		304	SQ YD
	TOTAL =	**609**	**SQ YD**
BITUMINOUS MATERIALS (PRIME COAT)			
STA. 6+80 - 10+00		225	GALLON
	TOTAL =	**225**	**GALLON**
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50			
STA. 6+80 - 7+86		31.5	TON
STA. 8+94 - 10+00		31.5	TON
	TOTAL =	**63**	**TON**
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50			
STA. 6+80 - 7+86		31.5	TON
STA. 8+94 - 10+00		31.5	TON
	TOTAL =	**63**	**TON**

AGGREGATE SHOULDERS, TYPE B, 6"			
STA. 6+42 - 7+86 - 10' - 16' R		65	SQ YD
STA. 6+61 - 7+86 - 11' - 16' L		53	SQ YD
STA. 8+94 - 10+20 - 10' - 16' R		54	SQ YD
STA. 8+94 - 10+27 - 11' - 35' L		57	SQ YD
	TOTAL =	**229**	**SQ YD**
AGGREGATE FIELD ENTRANCE			
STA. 6+91 - 7+18 - 16' - 30' L		29	SQ YD
	TOTAL =	**29**	**SQ YD**
PIPE CULVERTS, CLASS D, TYPE 1, 15"			
STA. 6+92 - 7+38 - L		46	FOOT
	TOTAL =	**46**	**FOOT**
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS			FOOT
STA. 7+17.25 - 7+42.25 - 16' R		25	FOOT
STA. 9+37.75 - 9+50.25 - 16' L		12.5	FOOT
	TOTAL =	**37.5**	**FOOT**
TRAFFIC BARRIER TERMINAL, TYPE 6A			
STA. 7+42.25 - 7+86 - 16' R		1	EACH
STA. 7+42.25 - 7+86 - 16' L		1	EACH
STA. 8+94 - 9+37.75 - 16' R		1	EACH
STA. 8+94 - 9+37.75 - 16' L		1	EACH
	TOTAL =	**4**	**EACH**
TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL) TANGENT			
STA. 6+67.25 - 7+17.25 - 16' R		1	EACH
STA. 9+37.75 - 9+87.75 - 16' R		1	EACH
STA. 9+50.25 - 10+00.25 - 16' L		1	EACH
	TOTAL =	**3**	**EACH**
GUARDRAIL REMOVAL			
STA. 7+39 - 7+90 - L		53	FOOT
STA. 7+39 - 7+90 - R		53	FOOT
STA. 8+90 - 9+30 - R		40	FOOT
STA. 8+90 - 9+42 - L		53	FOOT
	TOTAL =	**199**	**FOOT**
PAINT PAVEMENT MARKING - LINE 4"			
STA. 6+80 - 10+00 - 0.5' R (YELLOW)		320	FOOT
STA. 6+80 - 10+00 - 0.5' L (YELLOW)		320	FOOT
STA. 7+86 - 8+94 - 0.5' R (WHITE)		108	FOOT
STA. 7+86 - 8+94 - 0.5' L (WHITE)		108	FOOT
	TOTAL =	**856**	**FOOT**
GUARDRAIL MARKERS, TYPE A			
STA. 6+73.5 - 10+00		8	EACH
	TOTAL =	**8**	**EACH**
TERMINAL MARKER - DIRECT APPLIED			
STA. 6+73.5 - R		1	EACH
STA. 7+17 - L		1	EACH
STA. 9+88 - R		1	EACH
STA. 10+00 - L		1	EACH
	TOTAL =	**4**	**EACH**
TRAFFIC BARRIER TERMINAL, TYPE 1			
STA. 7+17.25 - 7+42.25 - 16' - 20' L		1	EACH
	TOTAL =	**1**	**EACH**



EXISTING TYPICAL ROADWAY SECTION
STA. 6+80 TO STA. 7+90
STA. 8+90 TO STA. 10+00



TYPICAL SECTION
STA. 6+80 TO STA. 7+86
STA. 8+94 TO STA. 10+00

GUARDRAIL
STA. 6+67 TO STA. 7+86 RT.
STA. 7+17.25 TO STA. 7+86 LT.
STA. 8+94 TO STA. 9+87.75 RT
STA. 8+94 TO STA. 10+00.25 LT.

MIXTURE REQUIREMENTS		
	HMA SURFACE	HMA BINDER
PG GRADE	PG64-22	PG64-22
DESIGN AIR VOIDS	4% AT N50	4% AT N50
MIXTURE COMPOSITION	IL-9.5 OR IL-12.5	IL-19.0
FRICTION AGGREGATE	MIXTURE C	
MIXTURE WEIGHT	112 LB./S.Y./IN	112 LB./S.Y./IN
TRAFFIC FACTOR	0.44	0.44

FILE NAME = G:\FILES\BOONE\TIMBERLANE\3260 Orth Road Bridge\3260_CURRENTPROJ \dwg\3260_BASE	USER NAME = JOHNB	DESIGNED — JAB	REVISED — MAY 8, 2013
		DRAWN — JAB	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — KCB	REVISED —
	PLOT DATE = 05/08/2013	DATE — 02/25/2013	REVISED —

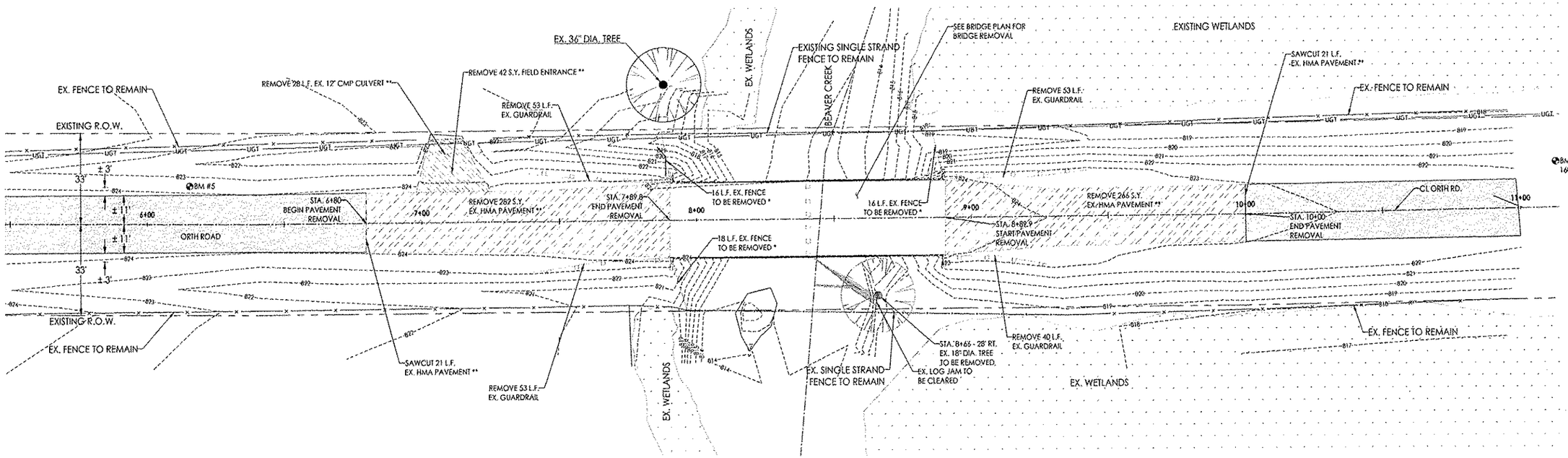
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND SCHEDULES OF QUANTITIES
ORTH ROAD BRIDGE REPLACEMENT
TIMBERLANE, ILLINOIS

SCALE: | SHEET NO. 3 OF 20 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	3
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		

85592



BENCHMARK				
BENCHMARK	STATION	OFFSET	DESCRIPTION	ELEVATION
#5	6+15.68	13.83' LT.	IRON SPIKE	823.72

CONTROL POINTS			
POINT	NORTHING	EASTING	DESCRIPTION
#2	2062421.3930	844506.7720	IRON SPIKE
#5	2062415.2168	843849.9264	IRON SPIKE

ALIGNMENT DATA		
ALIGNMENT STA.	NORTHING	EASTING
6+00	2062401.4912	843834.1518
11+00	2062404.5387	844334.1326

* COST INCLUDED IN REMOVAL OF EXISTING STRUCTURES.

** COST INCLUDED IN EARTH EXCAVATION (SPECIAL).

FILE NAME = G:\FILES\BOONE\TIMBERLANE\3260 Orth Road Bridge\3260_CURRENTPROJ \dwg\3260_BASE	USER NAME = JOHNB	DESIGNED — JAB	REVISED — MAY 8, 2013
		DRAWN — JAB	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — KCB	REVISED —
	PLOT DATE = 02/25/2013	DATE —05/08/2013	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES, BENCHMARKS AND REMOVAL PLAN
ORTH ROAD BRIDGE REPLACEMENT
TIMBERLANE, ILLINOIS

SCALE: 1" = 20' | SHEET NO. 4 OF 20 SHEETS | STA. 5+50 TO STA. 11+00

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	4
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		

85592

STA. 6+92 - 7+38
46 L.F. 15" CMP CULVERT
W. INV. = 821.35
E. INV. = 820.94

EX. 36" DIA. TREE

25' TRAFFIC BARRIER TERMINAL, TYPE 1
STA. 7+17.25 TO STA. 7+42.25

43.75' TRAFFIC BARRIER TERMINAL, TYPE 6A
STA. 7+42.25 TO STA. 7+86

29 S.Y. TYPE B AGGREGATE FIELD ENTRANCE, 6"

TYPE B AGGREGATE SHOULDER, 53 S.Y.

EX. FENCE TO REMAIN

EXISTING R.O.W.

BM #5

STA. 6+80
BEGIN NEW PAVEMENT

ORTH ROAD

PAVEMENT PER TYPICAL SECTION

EX. WETLANDS

EXISTING SINGLE STRAND FENCE TO REMAIN

BEAVER CREEK

108 L.F. WHITE PAINT PAVEMENT MARKING, 4" LINE

640 L.F. YELLOW PAINT PAVEMENT MARKING, 4" LINE

EX. SINGLE STRAND FENCE TO REMAIN

FLOW

12.5' STEEL PLATE BEAM GUARDRAIL
STA. 9+37.75 TO STA. 9+50.25

EXISTING WETLANDS

43.75' TRAFFIC BARRIER TERMINAL, TYPE 6A
STA. 8+94 TO STA. 9+37.75

50' TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
STA. 9+50.25 TO STA. 10+00.25

TYPE B AGGREGATE SHOULDER, 57 S.Y.

EX. FENCE TO REMAIN

STA. 10+00
END NEW PAVEMENT

CL ORTH ROAD & PROFILE GRADE LINE

EX. FENCE TO REMAIN

TYPE B AGGREGATE SHOULDER, 54 S.Y.

25' STEEL PLATE BEAM GUARDRAIL
STA. 7+17.25 TO STA. 7+42.25

50' TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
STA. 6+67.25 TO STA. 7+17.25

TYPE B AGGREGATE SHOULDER, 65 S.Y.

EX. FENCE TO REMAIN

EXISTING R.O.W.

SCALE 1" = 20'

0 10' 20' 40'

SCALE:
1" = 20'-0" Horizontal
1" = 5'-0" Vertical

GRADE BREAK STA = 6+80.00
ELEV = 824.326

BEGIN PAVING

S = 0.00%

BVCS: 7+80.00
BVCE: 824.33

PVI STA: 8+70.00
PVI ELEV: 824.33
K: 220.27
LVC: 180.00'

17" SLAB

100-YR HWE = 821.64

30-YR HWE = 821.21

EXISTING PROFILE

PROPOSED PROFILE

EVCS: 9+60.00
EVCE: 823.59

S = -0.82%

GRADE BREAK STA = 10+00.00
ELEV = 823.268

END PAVING

3.0

818.68

2:1

EXISTING CHANNEL

611.47

611.36

3.0' TYP.

2.5' TYP.

CL WEST PIER (STA. 8+20)

CL EAST PIER (STA. 8+60)

BACK W. ABUT. (STA. 7+85)

CL BRIDGE (STA. 8+40)

BACK E. ABUT. (STA. 8+94)

EXISTING CENTERLINE GRADE

PROPOSED CENTERLINE GRADE

MATCH EXISTING

MATCH EXISTING

824.70 824.47 824.30 824.33 824.34 824.33 824.39 824.33 824.32 824.49 824.31 824.25 824.57 824.20 824.93 824.33 824.00 823.76 823.67 823.27 823.26 822.87

840 835 830 825 820 815 810 805 800

5+00 5+50 6+00 6+50 7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50

FILE NAME = G:\FILES\BOONE\TIMBERLANE\3260 Orth Road Bridge\3260_CURRENTPROJ \dwg\3260_BASE	USER NAME = JOHNB	DESIGNED — JAB	REVISED — MAY 8, 2013
		DRAWN — JAB	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — KCB	REVISED —
	PLOT DATE = 02/25/2013	DATE — 05/08/2013	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CES ILLINOIS DESIGN FIRM NO. 184-001260

SCALE: 1" = 20' | SHEET NO. 5 OF 20 SHEETS | STA. 5+50 TO STA. 11+00

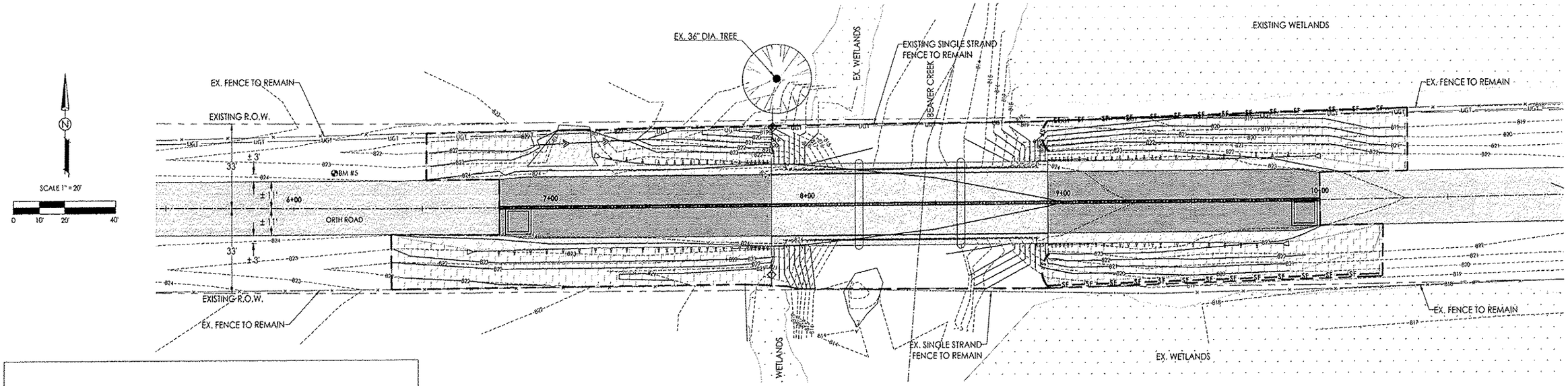
ROADWAY PLAN AND PROFILE
ORTH ROAD BRIDGE REPLACEMENT
TIMBERLANE, ILLINOIS

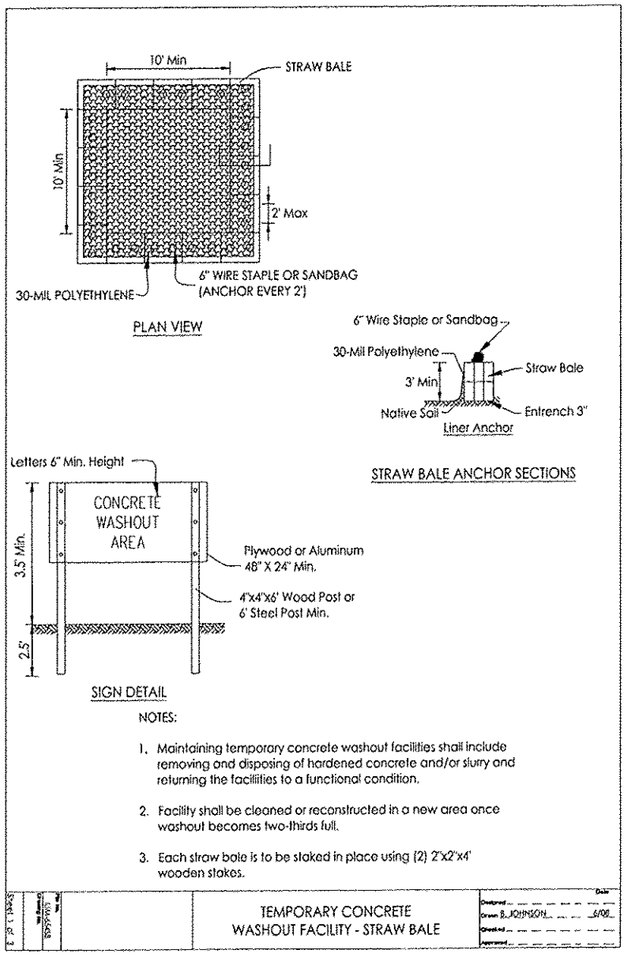
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	5
		CONTRACT NO. 85592		
	ILLINOIS FED. AID PROJECT			

PLAN — SURVEYED / PLOTTED / CROSS SECTIONS CHECKED / ALL CONTOURS CHECKED / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / CROSS SECTIONS CHECKED / ALL CONTOURS CHECKED / NOTE BOOK / NO. / STRUCTURE QUANTITIES DATA / BY / DATE

85592





NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE

Drawn B. JOHNSON 6/08

GENERAL EROSION CONTROL NOTES

1. EROSION CONTROL DEVICES SHALL BE IN PLACE AND APPROVED BY THE RESIDENT ENGINEER AS TO PROPER PLACEMENT AND INSTALLATION PRIOR TO BEGINNING OTHER WORK.
2. THE RESIDENT ENGINEER WILL DETERMINE WHEN TEMPORARY EROSION CONTROL SYSTEMS SHOWN ON THE PLAN MAY BE MOVED TO A DIFFERENT LOCATION OF DELETED.
3. IN THE EVENT OF HIGH WATER AND/OR HIGH FLOW RATES THAT DAMAGE THE PERIMETER EROSION AND SEDIMENT CONTROLS, THE CONTRACTOR SHALL RETRIEVE ANY CONTROLS THAT HAVE BEEN WASHED DOWNSTREAM.
4. STRAW BALES ARE NOT ALLOWED FOR ANY USE EXCEPT FOR CONCRETE TRUCK WASH OUT.
5. SILT FENCING IS NOT ALLOWED FOR USE IN DITCH CHECKS.
6. AFTER THE VEGETATION IS ESTABLISHED IN THE DISTURBED AREA, THE CONTRACTOR SHALL:
   - REMOVE THE REMAINING SEDIMENT CONTROL ITEMS AS DIRECTED BY THE RESIDENT ENGINEER.
   - RESTORE THE AREAS DISTURBED BY THE SEDIMENT CONTROL ITEMS BY PERMANENT SEEDING MEASURES.
7. CONTRACTOR SHALL KEEP ORTH ROAD FREE OF EARTH AND AGGREGATE EXCEPT IN THE IMMEDIATE VICINITY OF THE BRIDGE. IF THE TOWNSHIP HIGHWAY COMMISSIONER OR THE COUNTY ENGINEER REGISTER A COMPLAINT ABOUT THE ROADWAY SURFACE THE CONTRACTOR SHALL CLEAN THE SURFACE AS SOON AS POSSIBLE.

INTENDED SEQUENCE

1. PLACE PERIMETER SEDIMENT CONTROL BARRIER PRIOR TO COMMENCEMENT OF ANY WORK. SEE STD. 280001
2. CONSTRUCT EARTHWORK, INCLUDING DITCHES.
3. PLACE AND MAINTAIN TEMPORARY AND PERMANENT EROSION CONTROLS AS WORK PROGRESSED. SEED EVERY 7 DAYS. SEE ART. 280.04
4. FINAL SHAPE, GRADE, AND PAVE ROADWAY.
5. PLACE REMAINING PERMANENT EROSION CONTROLS.

LEGEND

- STONE RIPRAP, CLASS 4A
- —SF—SF— SILT FENCE
- TEMPORARY DITCH CHECK
- TOPSOIL, EROSION BLANKET & SEEDING CLASS 2A
- CONCRETE TRUCK WASH OUT
- — — — — CONSTRUCTION LIMITS

PLAN / PROFILE — SURVEYED, PLOTTED, ALIGNMENT CHECKED, BY, NOTE BOOK, NO., DATE, BY

FILE NAME = G:\FILES\BOONE\TIMBERLANE\3260 Orth Road Bridge\3260_CURRENTPROJ \d=0\3260_BASE	USER NAME = JOHNB	DESIGNED — JAB	REVISED — MAY 8, 2013
		DRAWN — JAB	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — KCB	REVISED —
	PLOT DATE = 02/25/2013	DATE —05/08/2013	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
ORTH ROAD BRIDGE REPLACEMENT
TIMBERLANE, ILLINOIS

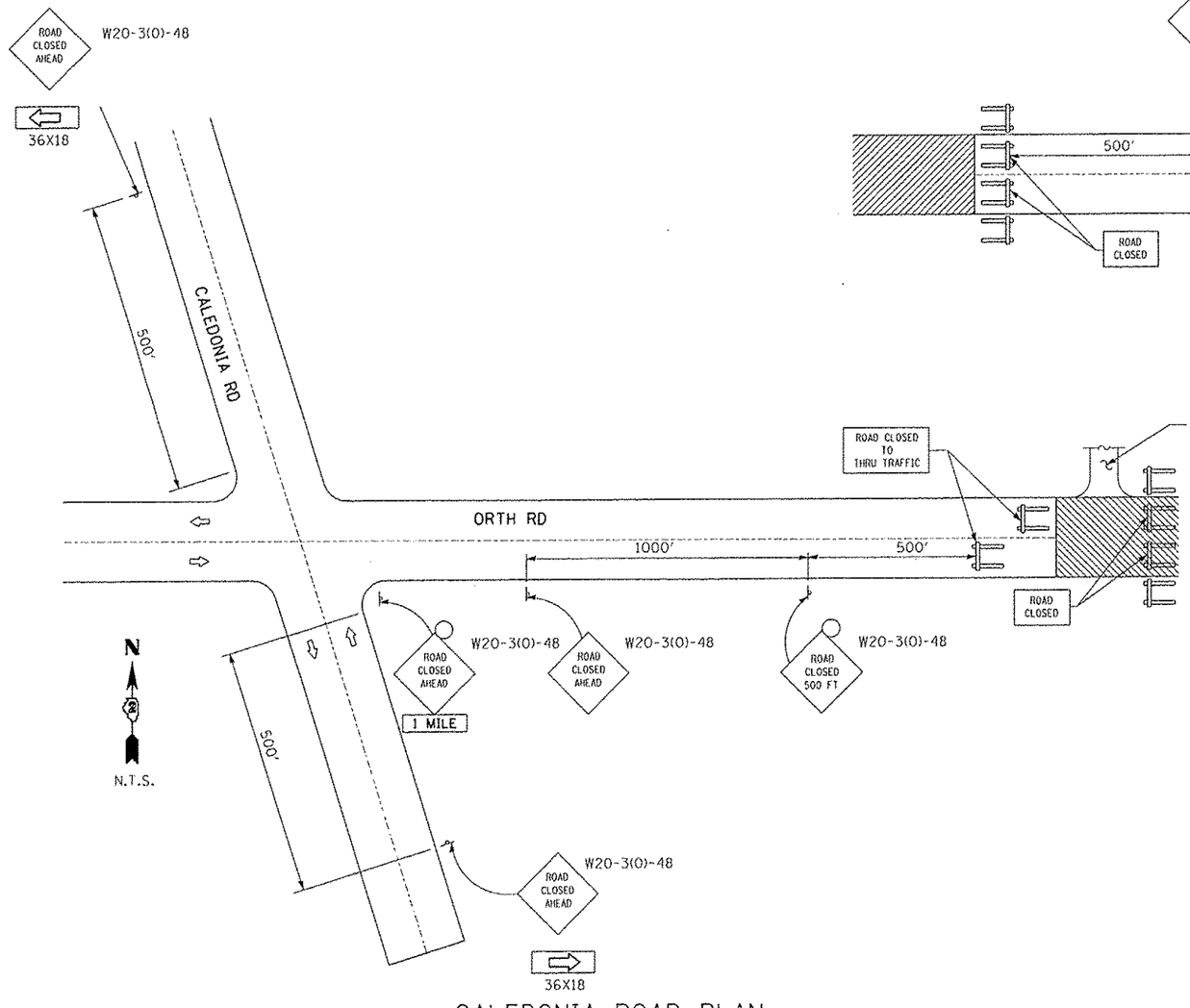
SCALE: 1" = 20' | SHEET NO. 6 OF 20 SHEETS | STA. 5+50 TO STA. 11+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	6

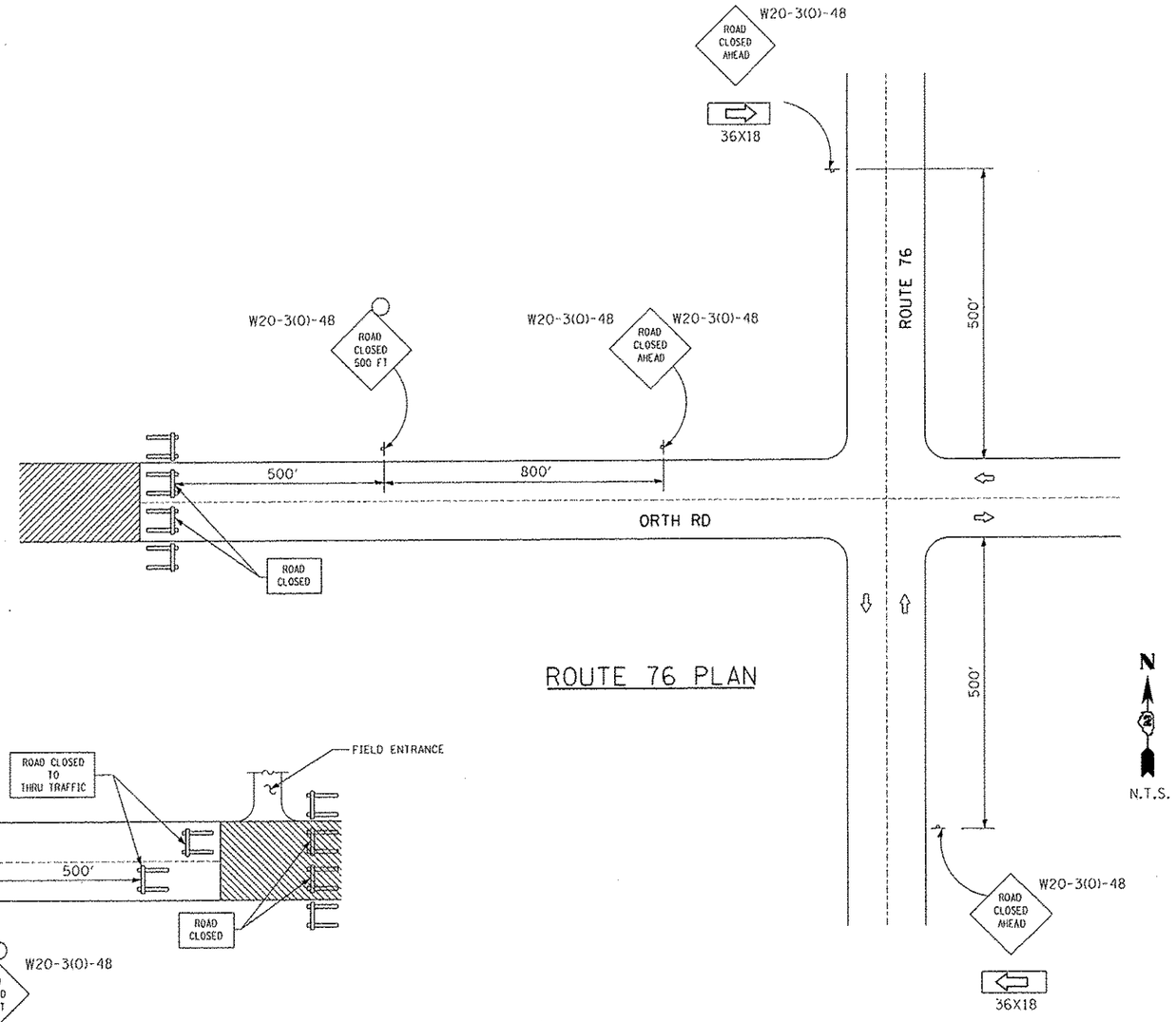
CONTRACT NO. 85592

ILLINOIS FED. AID PROJECT

85592



CALEDONIA ROAD PLAN



ROUTE 76 PLAN

LEGEND

- WORK AREA
- TYPE III BARRICADE WITH TYPE A FLASHERS
- SIGN WITH TYPE A FLASHER

LAYOUT	SMK	2/18/13
DRAWN	MGM	2/27/13
REVIEWED	SMK	2/27/13

I:\12Jobs\12L0028\CAD\Structs\Sheets\C-007-DET.dgn mdot-00.STT 05\03\2013

FILE NAME = I:\12Jobs\12L0028\CAD\Structs\Sheets\C-007-DET.dgn	USER NAME = MWH	DESIGNED - SMK	REVISED -
		DRAWN - MGM	REVISED -
	PLOT SCALE = AS SHOWN	CHECKED - SMK	REVISED -
	PLOT DATE = 05\10\2013	DATE - 05/08/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
ORTH ROAD BRIDGE OVER BEAVER CREEK

SCALE: AS SHOWN | SHEET NO. OF SHEETS | STA. TO STA.

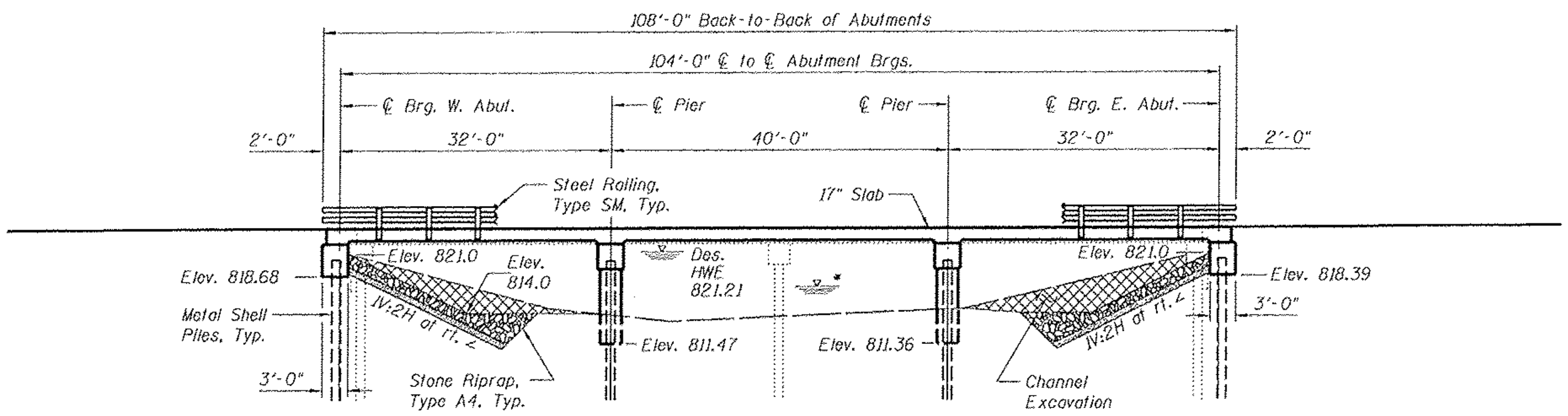
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	7
		CONTRACT NO. 85592		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

85592

B.M.- Iron Spike in ground, Station 6+15.68, 13.83 ft. left, Elev. = 823.72 (NAVD 88)

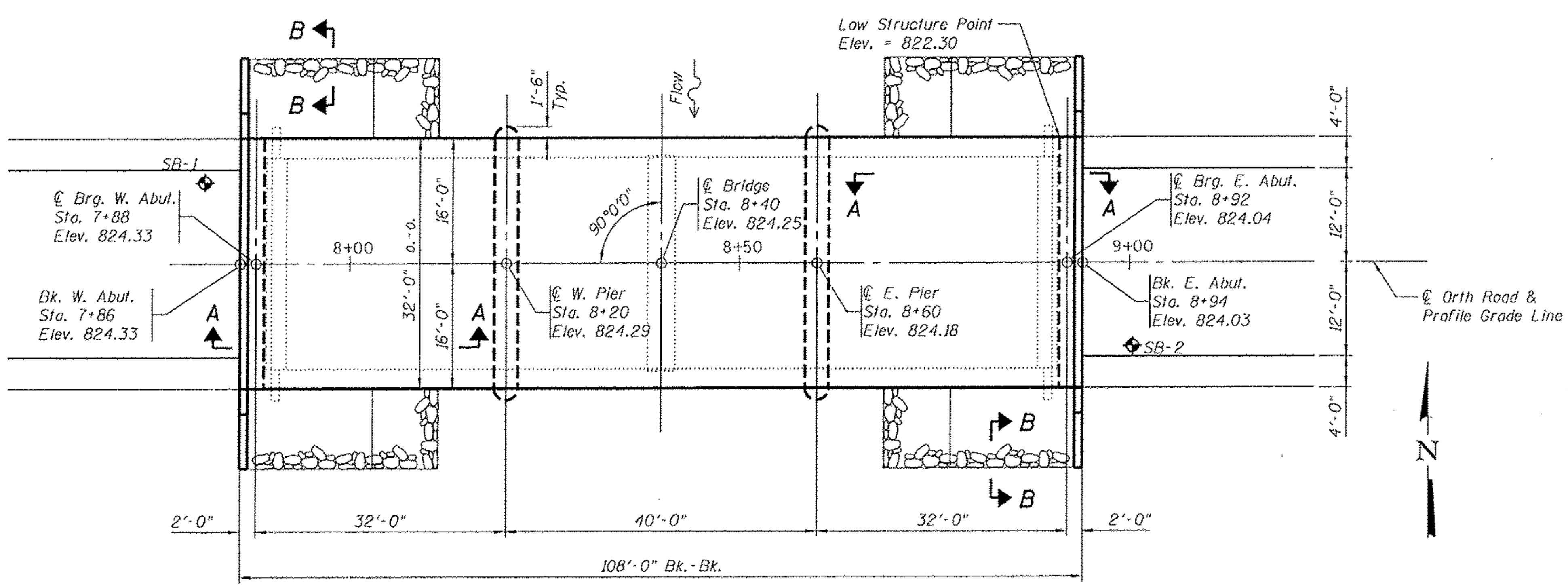
Existing Structure - Structure Number 004-3074. Original structure built in 1981 under Section 79-01128-00-BR and 79-08115-00-BR as a two-span PPC deck beam superstructure supported by pile bent pier and abutments. The existing abutments and pier consist of reinforced concrete caps on metal shell piles and precast concrete piles, respectively. Structure length is 101'-5", back to back of abutments. Structure width is 27'-6", out to out of deck.

Salvage - Existing Bridge Name Plate.



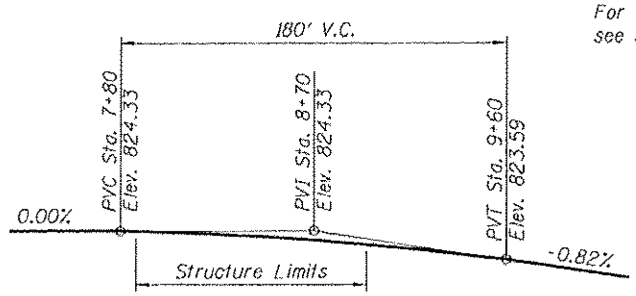
* Estimated Water Surface Elev. (EWSE) = 817.0

ELEVATION



PLAN

For Sections A-A and B-B see sheet 2 of 10.



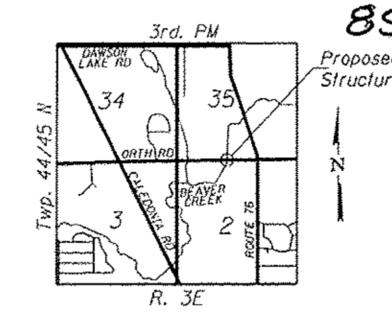
PROFILE GRADE

(Along ℄ Roadway)

BEAVER CREEK
BUILT 20__ BY
VILLAGE OF TIMBERLANE
SEC. 12-00089-00-BR
F.A.U. RT. 5208 STA. 8+40
STR. NO. 004-6000 LOADING HL-93

LETTERING FOR NAME PLATE

Locate Name Plate at Southwest Corner of Bridge (See Std. 515001)



LOCATION SKETCH

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications - 6th edition

LOADING HL-93

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

DESIGN STRESSES

f'c = 5,000 p.s.i. (Superstructure)
f'c = 3,500 p.s.i. (All other units)
fy = 60,000 p.s.i. (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.078
Design Spectral Acceleration at 0.2 sec (SDs) = 0.131
Soil Site Class = D

INDEX OF SHEETS

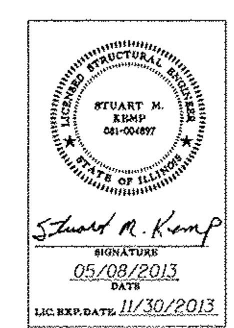
DESIGN SCOUR ELEVATION TABLE

	Freq. Yr.	W. Abut.	W. Pier	E. Pier	E. Abut.
Design Scour Elevation (ft.)	Q100	818.7	809.1	809.1	818.4
	Q500	818.7	808.2	808.2	808.4

WATERWAY INFORMATION

Drainage Area = 47.7 Sq. Mi. Roadway Elev. = 824.03

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	30	2275	616	654	821.21	0.45	0.35	821.66	821.56
Base	100	2840	666	708	821.64	0.60	0.49	822.24	822.13
Max.	500	3570	688	731	822.13	0.95	0.85	823.08	822.98



"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges.'"

LAYOUT	SMK	2/18/13
DRAWN	MGM	5/08/13
REVIEWED	SMK	5/08/13

model C0377
05NOV2013
I:\12jobs\12L0028\CADD\Struct\Sheets\S-008 GP&E.dgn

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

HANSON
Hanson Professional Services Inc.

USER NAME =	DESIGNED - SMK	REVISED -
	CHECKED - FLN	REVISED -
PLOT SCALE =	DRAWN - MGM	REVISED -
PLOT DATE =	CHECKED - SMK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 004-6000
SHEET NO. 1 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	8

CONTRACT NO. 85592

ILLINOIS FED. AID PROJECT

85592

GENERAL NOTES

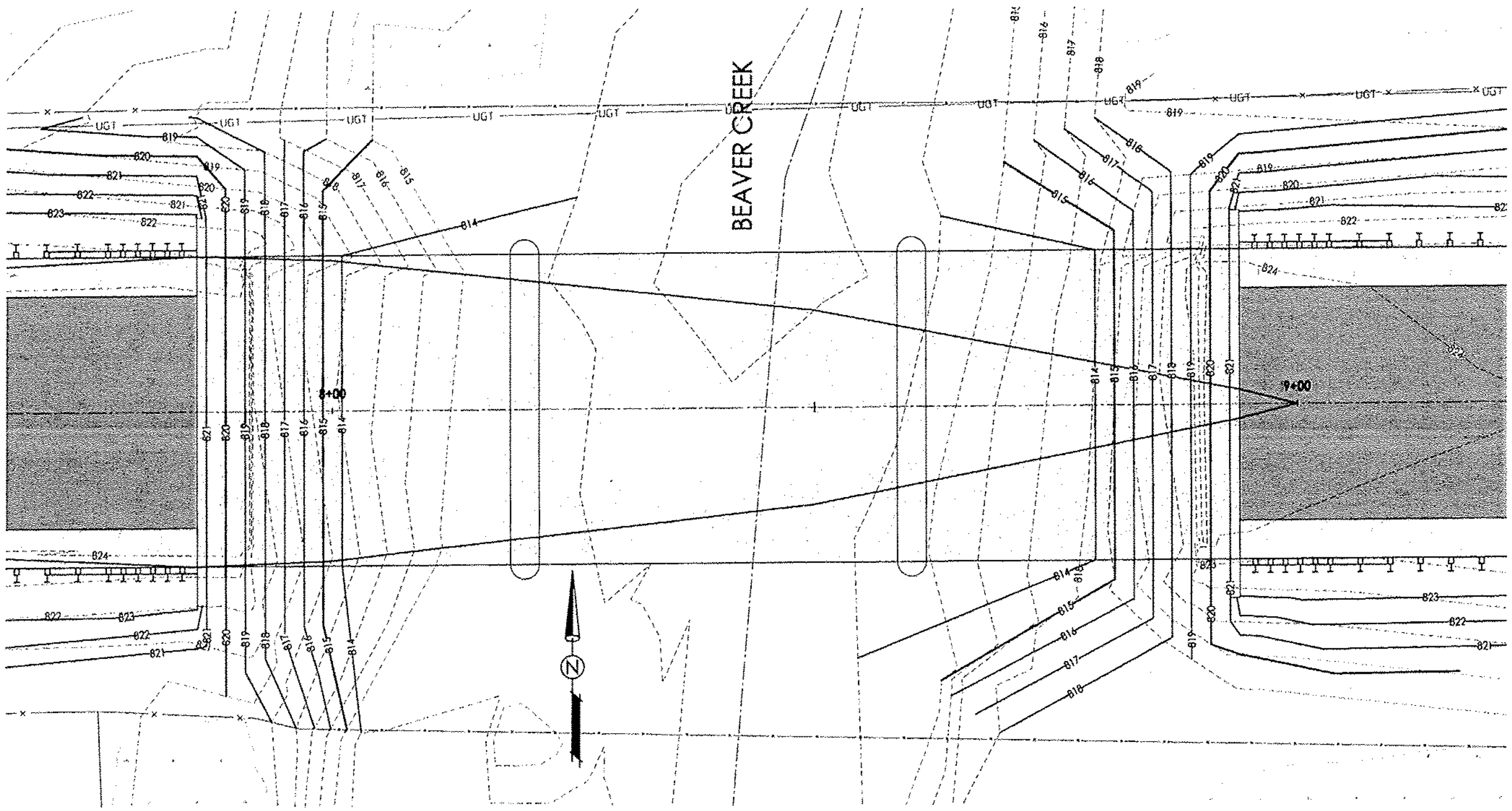
Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

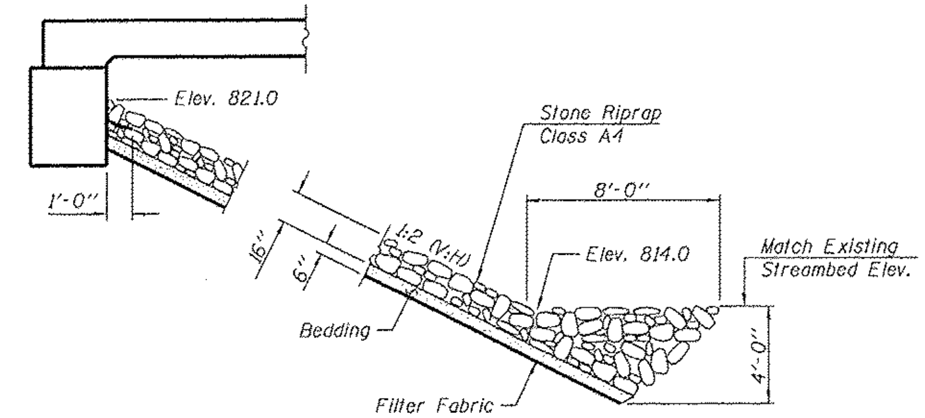
The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Channel Excavation	Cu. Yd.	—	298	298
Stone Riprap, Class A4	Sq. Yd.	—	238	238
Filter Fabric	Sq. Yd.	—	216	216
Removal of Existing Structures	Each	—	—	1
Structure Excavation	Cu. Yd.	—	132	132
Cofferdams (Type 1) (Location 1)	Each	—	2	2
Concrete Structures	Cu. Yd.	—	96.2	96.2
Concrete Superstructure	Cu. Yd.	185.1	—	185.1
Bridge Deck Grooving	Sq. Yd.	353	—	353
Protective Coat	Sq. Yd.	377	9	386
Reinforcement Bars, Epoxy Coated	Pound	48,030	9,570	57,600
Steel Railing, Type SM	Foot	212	—	212
Furnishing Metal Shell Piles 12" x 0.25"	Foot	—	560	560
Driving Piles	Foot	—	560	560
Test Pile Metal Shells	Each	—	4	4
Pile Shoes	Each	—	26	26
Name Plates	Each	1	—	1

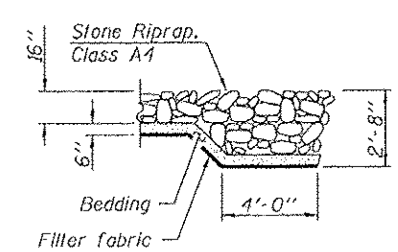


CHANNEL EXCAVATION PLAN



SECTION A-A

SECTION THRU ABUTMENT



SECTION B-B

FLANK STONE RIPRAP DETAIL

LAYOUT	SMK	2/18/13	model00377	
DRAWN	VDN	5/08/13		
REVIEWED	SMK	5/08/13		

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

HANSON
Hanson Professional Services Inc.

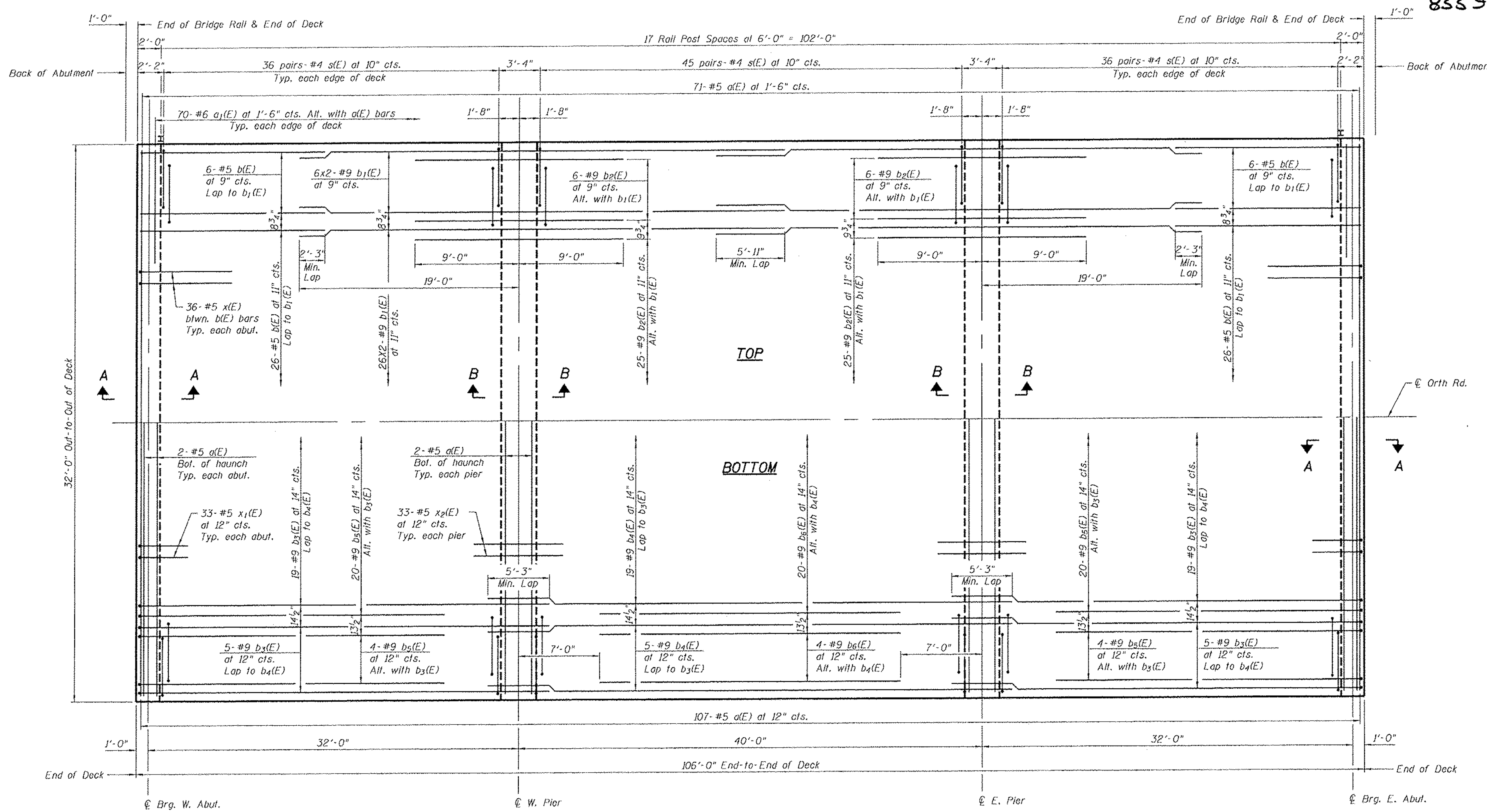
USER NAME =	DESIGNED - SMK	REVISED -
	CHECKED - FLN	REVISED -
PLOT SCALE =	DRAWN - MGM	REVISED -
PLOT DATE =	CHECKED - SMK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, TOTAL BILL OF MATERIALS & RIPRAP DETAILS
STRUCTURE NO. 004-6000
SHEET NO. 2 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	9
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		

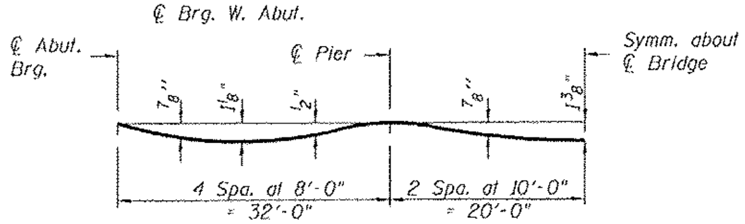
85592



DECK REINFORCEMENT PLAN

Bars indicated thus 25x2-#9 etc. indicates 25 line of bars with 2 lengths per line.

For Sections A and B see sheet 4 of 10.



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

USER NAME =	DESIGNED - SMK	REVISED -	
	CHECKED - FLN	REVISED -	
PLOT SCALE =	DRAWN - MGM	REVISED -	
PLOT DATE =	CHECKED - SMK	REVISED -	

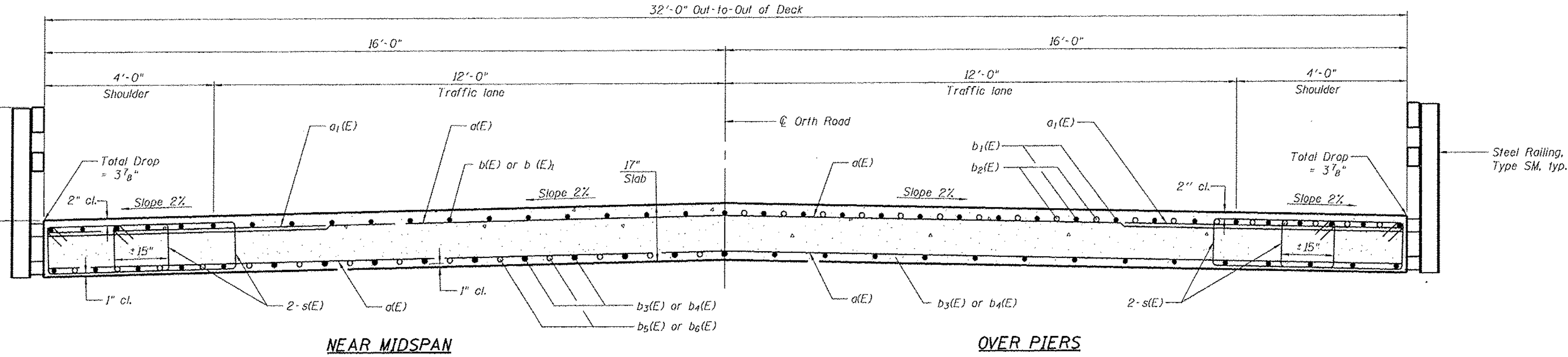
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 004-6000

SHEET NO. 3 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	10
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		

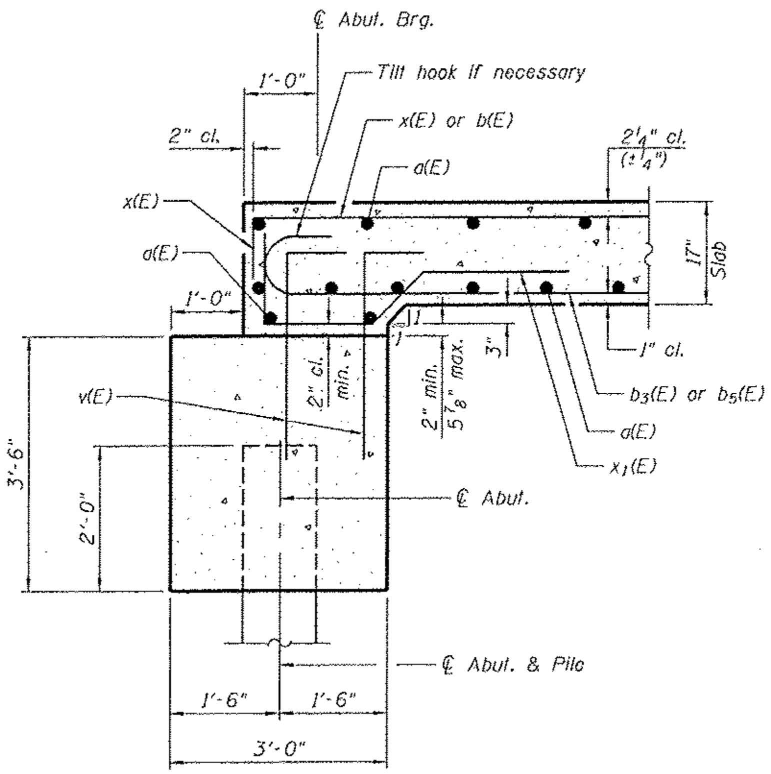
85592



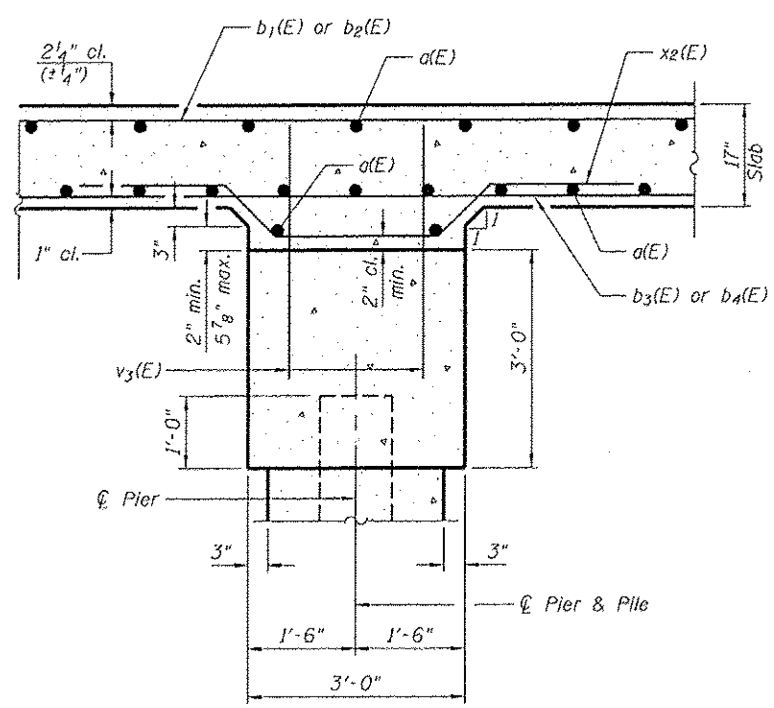
NEAR MIDSPAN

OVER PIERS

SECTION THRU DECK



SECTION A-A

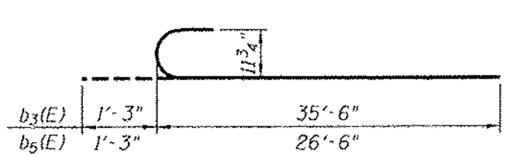


SECTION B-B

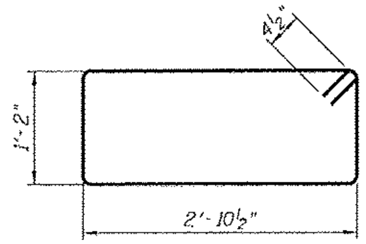
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	186	#5	31'-8"	straight
a1(E)	140	#6	6'-6"	straight
b(E)	76	#5	16'-2"	straight
b1(E)	76	#9	42'-0"	straight
b2(E)	74	#9	18'-0"	straight
b3(E)	58	#9	36'-9"	hooked
b4(E)	29	#9	45'-3"	straight
b5(E)	56	#9	27'-9"	hooked
b6(E)	28	#9	26'-0"	straight
s(E)	468	#4	8'-10"	closed
x(E)	72	#5	8'-10"	bent
x1(E)	66	#5	5'-9"	bent
x2(E)	66	#5	8'-3"	bent
Concrete Superstructures		Cu. Yd.	185.1	
Reinforcement Bars, Epoxy Coated		Pound	48,030	

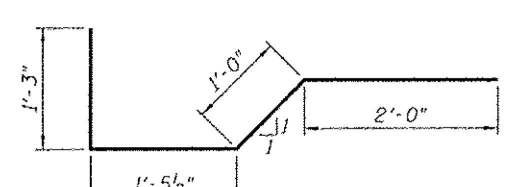
v(E) shown on sheet 6 of 10.
v3(E) shown on sheet 7 of 10.



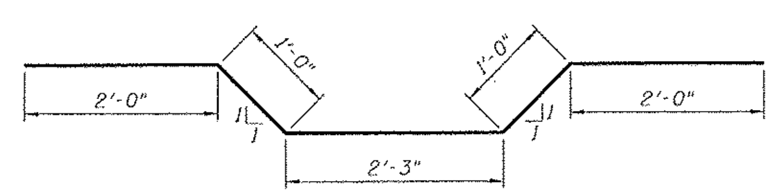
BARS $b_3(E)$ & $b_5(E)$



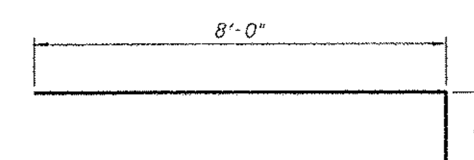
BAR s(E)



BAR $x_1(E)$



BAR $x_2(E)$



BAR x(E)

LAYOUT	SMK	2/18/13
DRAWN	MGM	5/08/13
REVIEWED	SMK	5/08/13

modot00377 09/10/2013 N:\2\Hos\12\002B\CAD\Struct\Sheet\S-01-Super Details.dgn

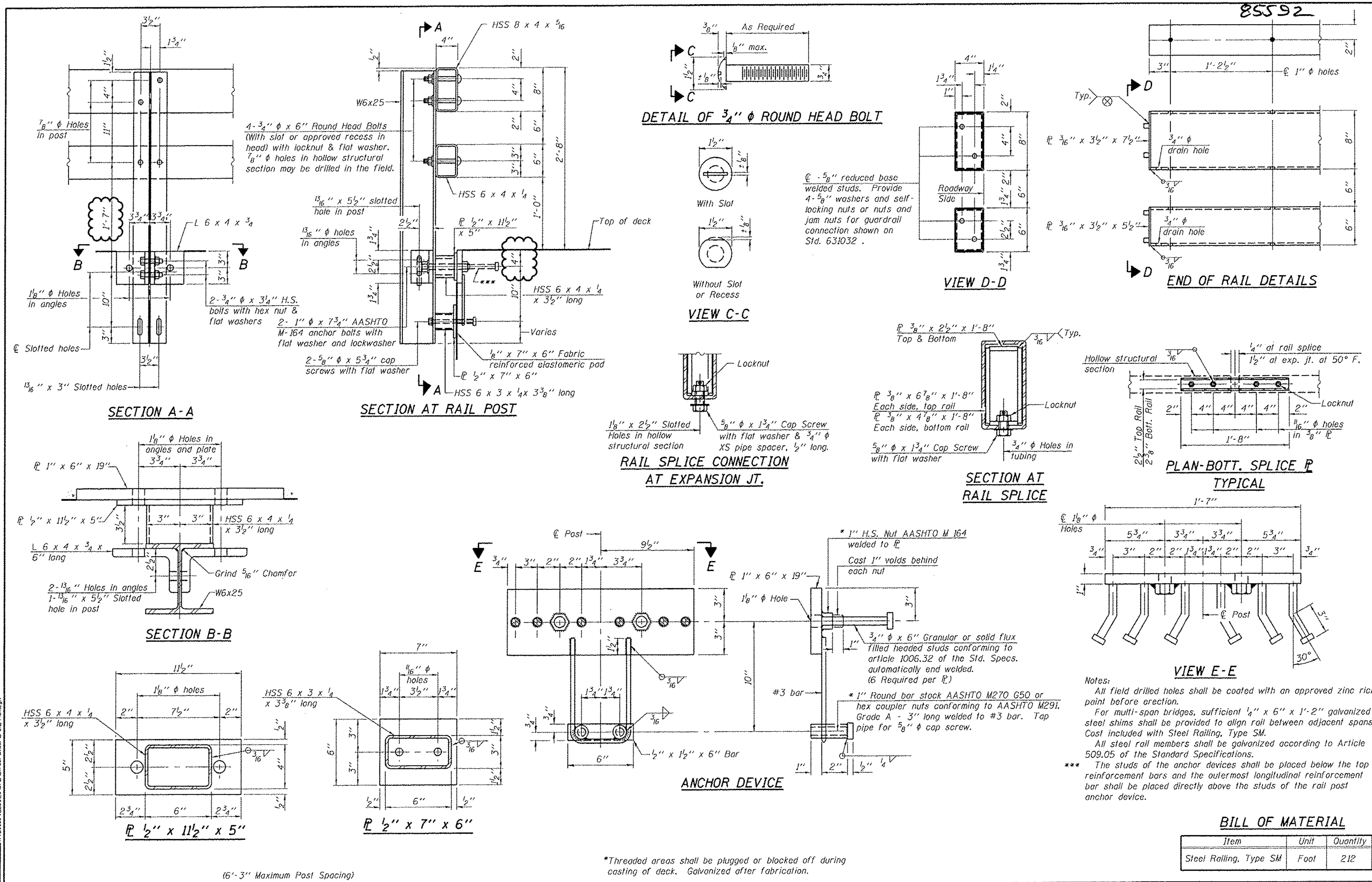
USER NAME =	DESIGNED - SMK	REVISED -
	CHECKED - FLN	REVISED -
PLOT SCALE =	DRAWN - MGM	REVISED -
PLOT DATE =	CHECKED - SMK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 004-6000
SHEET NO. 4 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	11
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		

85592



*Threaded areas shall be plugged or blocked off during casting of deck. Galvanized after fabrication.

Notes:

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.

*** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	212

PROFESSIONAL DESIGN FIRM LICENSE #184-001084 © Copyright Hanson Professional Services Inc. 2013 HANSON Hanson Professional Services Inc.	USER NAME =	DESIGNED - SMK	REVISED -
		CHECKED - FLN	REVISED -
	PLOT SCALE =	DRAWN - MGM	REVISED -
	PLOT DATE =	CHECKED - SMK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

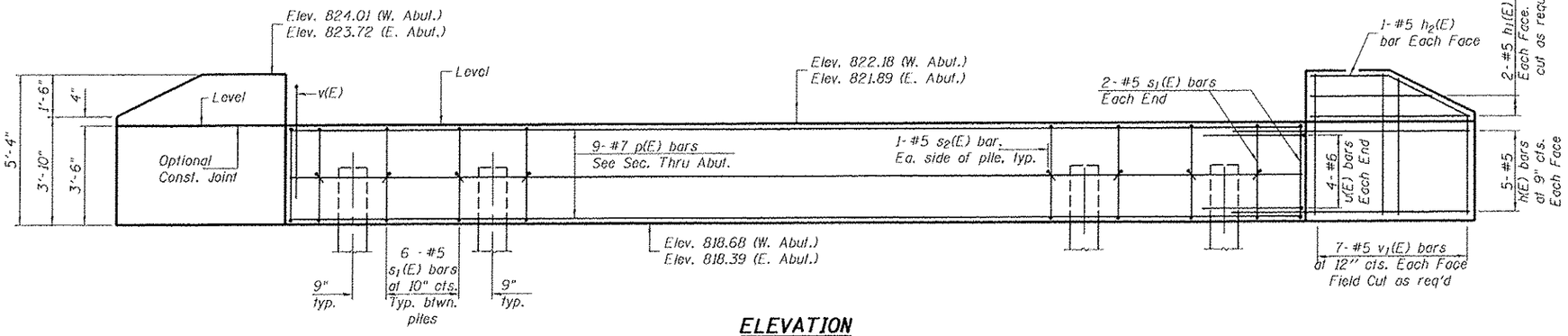
STEEL RAILING, TYPE SM
STRUCTURE NO. 004-6000
SHEET NO. 5 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	12

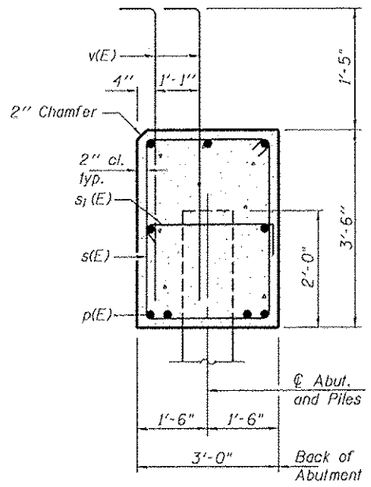
CONTRACT NO. 85592
ILLINOIS FED. AID PROJECT

LAYOUT	SMK	2/18/13
DRAWN	MGM	5/08/13
REVIEWED	SMK	5/08/13

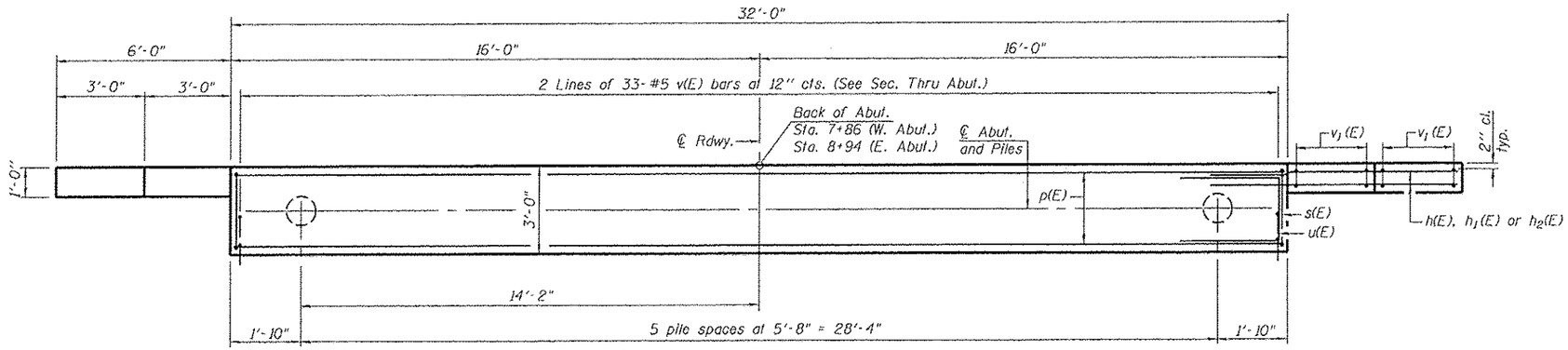
85592



ELEVATION



SEC. THRU ABUT.



PLAN

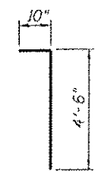
BILL OF MATERIAL (TWO ABUTMENTS)

Bar	No.	Size	Length	Shape
h(E)	40	#5	7'-9"	
h_1(E)	16	#5	5'-9"	
h_2(E)	8	#5	6'-0"	
p(E)	18	#7	31'-8"	
s_1(E)	68	#5	12'-7"	
s_2(E)	24	#5	3'-8"	
u(E)	16	#6	10'-3"	
v(E)	132	#5	5'-4"	
v_1(E)	56	#5	5'-0"	
Structure Excavation			Cu. Yd.	86
Concrete Structures			Cu. Yd.	28.6
Reinforcement Bars, Epoxy Coated			Pound	3,890
Furnishing - Piles, Metal Shell, 12"			Foot	200
Driving Piles			Foot	200
Test Pile, Metal Shell			Each	2
Pile Shoes			Each	12

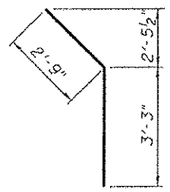
For details of piles see sheet 8 of 10.

PILE DATA

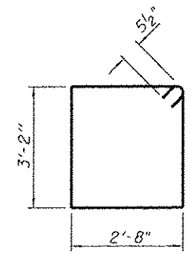
Type: Metal Shell, 12" dia. x 0.25" wall with pile shoes
Nominal Required Bearing: 200k
Factored Resistance Available: 110k
Est. Length: 15 ft. (W. Abut.) 25 ft. (E. Abut.)
No. Production Piles: 10 (5 per abut.)
No. Test Piles: 2 (1 per abut.)



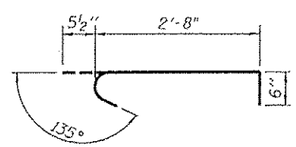
BAR v(E)



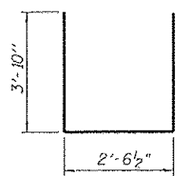
BAR h_2(E)



BAR s_1(E)



BAR s_2(E)



BAR u(E)

LAYOUT	SMK	2/18/13
DRAWN	MGM	5/08/13
REVIEWED	SMK	5/08/13

mdot00377
05/09/2013
I:\12Jobs\2L0028\CAD\Struct\Sheet\S-013-Abut1.dgn

PROFESSIONAL DESIGN FIRM LICENSE #184-000864

HANSON
Hanson Professional Services Inc.

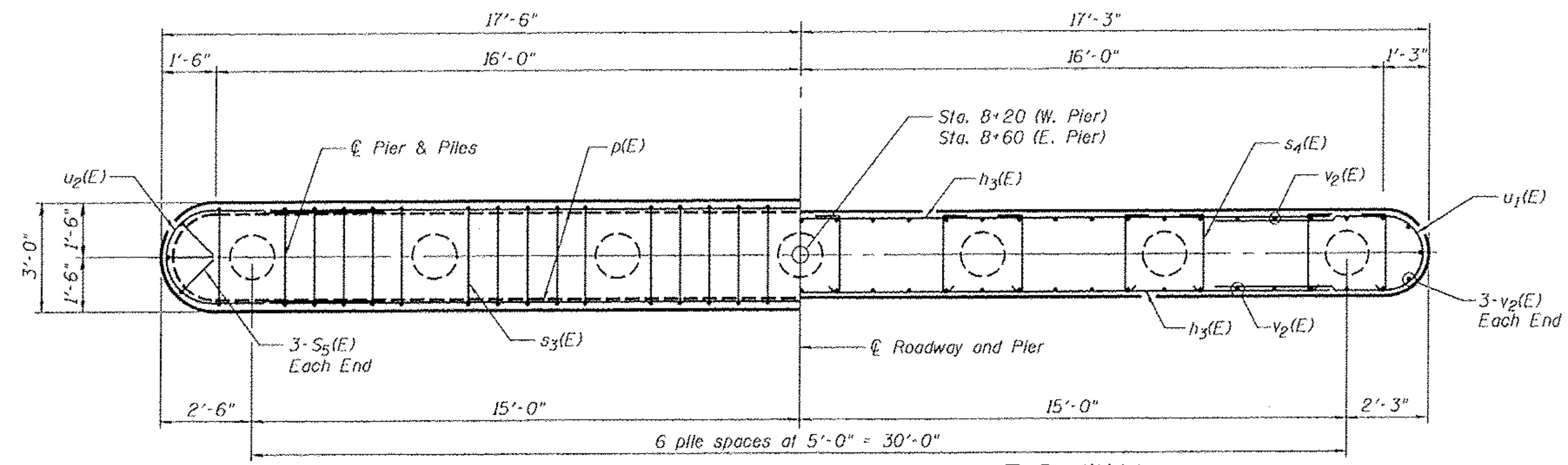
USER NAME =	DESIGNED - SMK	REVISED -
	CHECKED - FLN	REVISED -
PLOT SCALE =	DRAWN - MGM	REVISED -
PLOT DATE =	CHECKED - SMK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENTS
STRUCTURE NO. 004-6000
SHEET NO. 6 OF 10 SHEETS

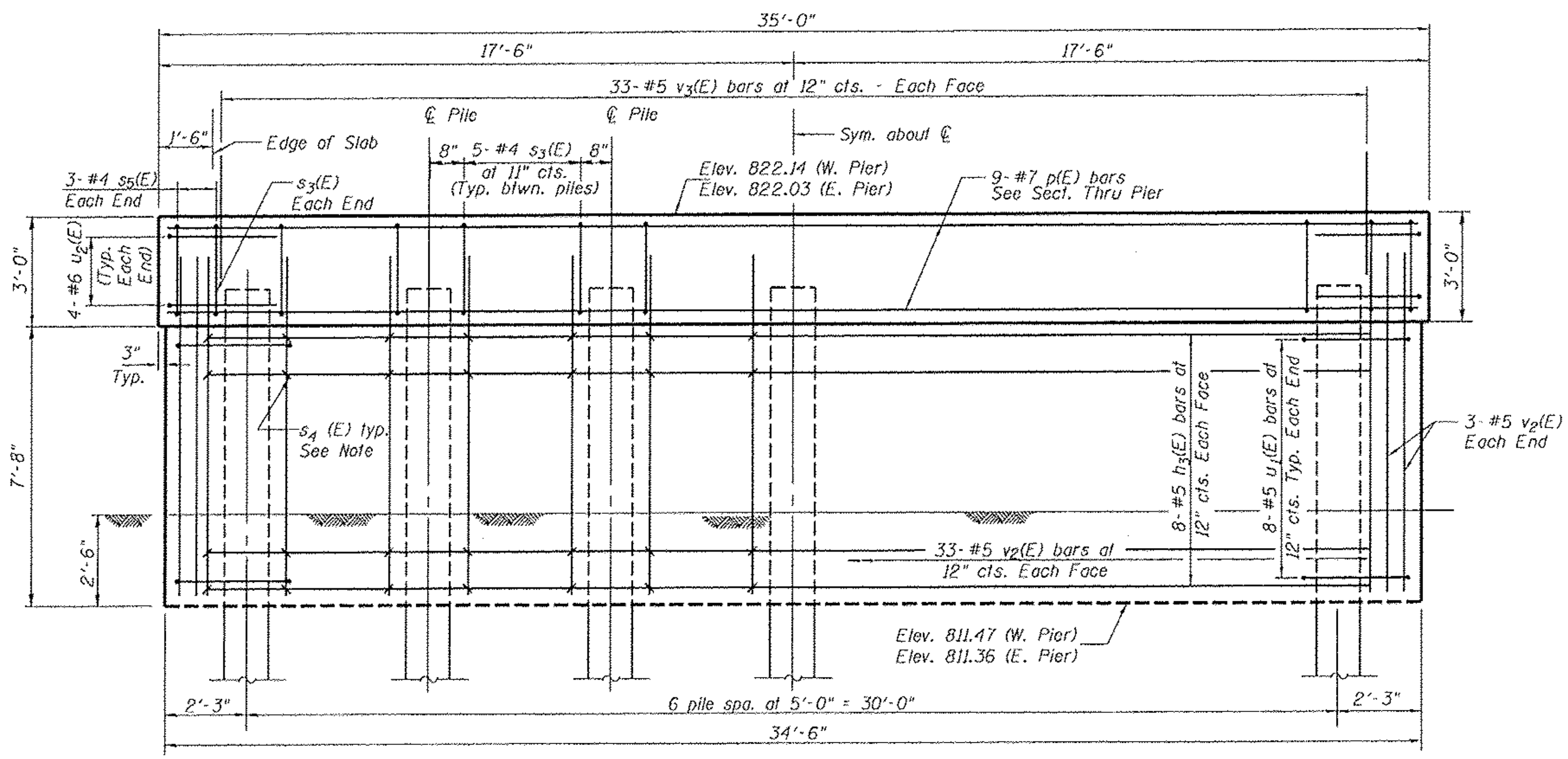
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	13
		CONTRACT NO. 85592		
	ILLINOIS FED. AID PROJECT			

85592



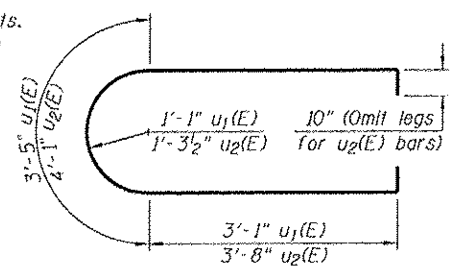
THRU CAP THRU WALL

SECTION

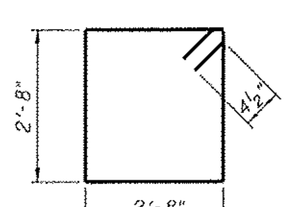


ELEVATION

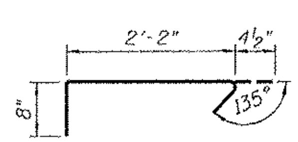
Note:
Place #4 s_4(E) bars at 12" cts. at vertical v_2(E) bars on each side pile.



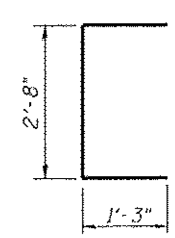
BARS u_1(E) & u_2(E)



BAR s_3(E)



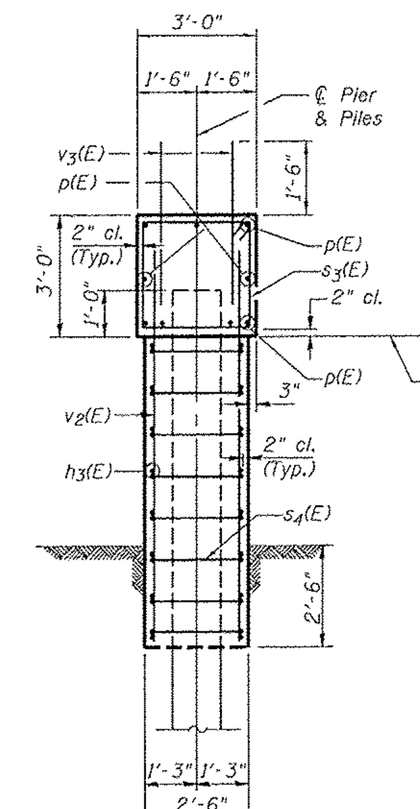
BAR s_4(E)



BAR s_5(E)

BILL OF MATERIAL FOR TWO PIERS

Bar	No.	Size	Length	Shape
h_3(E)	32	#5	31'-8"	
p(E)	18	#7	31'-8"	
s_3(E)	64	#4	11'-5"	
s_4(E)	224	#4	3'-3"	
s_5(E)	12	#4	5'-2"	
u_1(E)	32	#5	11'-3"	
u_2(E)	16	#6	11'-5"	
v_2(E)	144	#5	9'-2"	
v_3(E)	132	#5	3'-0"	
Structure Excavation			Cu. Yd.	46
Concrete Structures			Cu. Yd.	67.6
Reinf. Bars, Epoxy Coated			Lbs.	5,680
Furn. Piles, Metal Shell, 12"			Foot	360
Driving Piles			Foot	360
Pile Shoes			Each	14
Cofferdam (Type 1) (Loc. 1)			Each	2
Test Pile, Metal Shell			Each	2



SECTION THRU PIER

NOTES:

See Sheet 8 of 10 for Pile Details.

If a portion of the pier wall or concrete encasement is underwater, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

PILE DATA

Type: Metal Shell - 12" dia. x 0.25" wall with pile shoes
Nominal Required Bearing: 352 k (W. Pier) 308 k (E. Pier)
Factored Resistance Available: 143 k (Both Piers)
Est. Length: 25 ft. (W. Pier) 35 ft. (E. Pier)
No. Production Piles: 12 (6 per pier)
No. Test Piles: 2 (1 per pier)

LAYOUT	SMK	2/18/13	medor00377
DRAWN	MGM	5/08/13	05/10/2013
REVIEWED	SMK	5/08/13	N:\2\bos\12L0028\CADD\Struct\Sheets\S-04-Piers.dgn

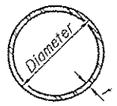
USER NAME =	DESIGNED - SMK	REVISED -
	CHECKED - FLN	REVISED -
PLOT SCALE =	DRAWN - MGM	REVISED -
PLOT DATE =	CHECKED - SMK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS
STRUCTURE NO. 004-6000
SHEET NO. 7 OF 10 SHEETS

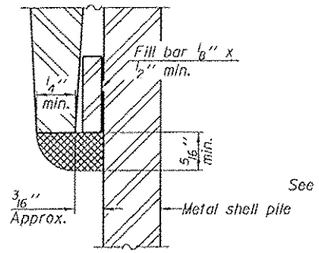
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	14
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		

85592

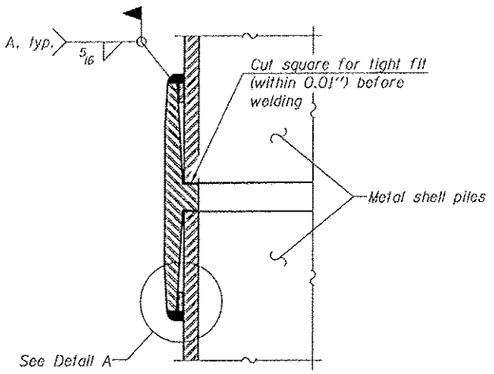


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume ($yd.^3$/ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361

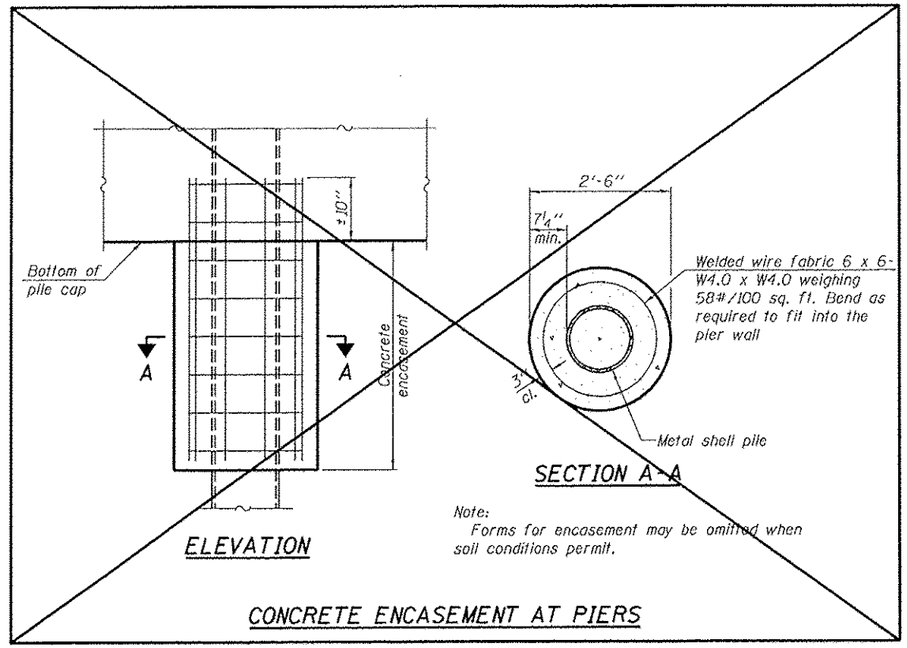


DETAIL A



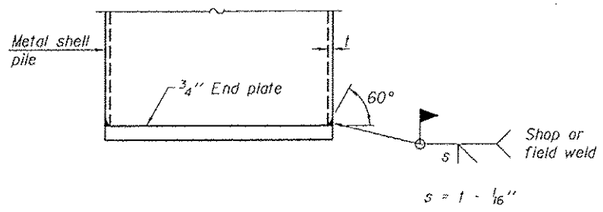
Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE

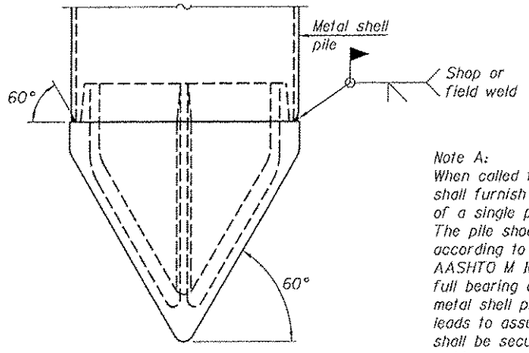


Note:
Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT AT PIERS

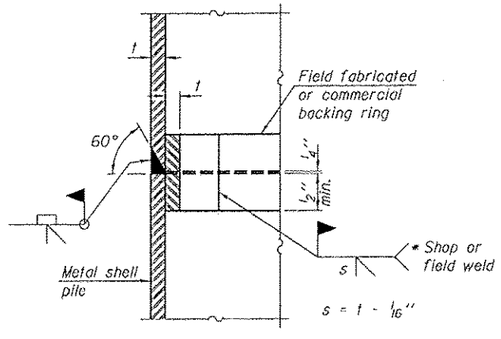


END PLATE ATTACHMENT



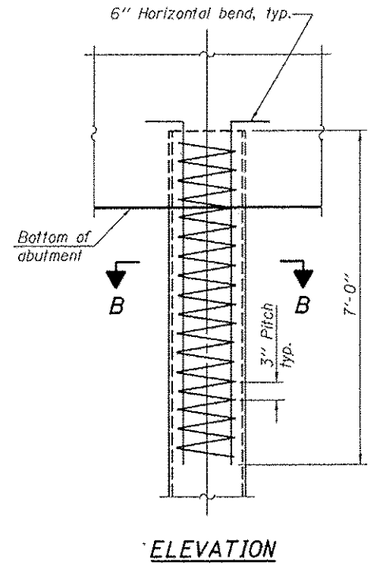
Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

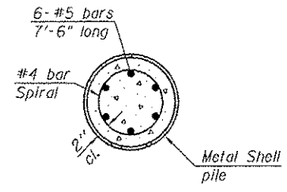
METAL SHELL PILE SHOE ATTACHMENT
(See Note A)



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.





METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS 1-27-12

LAYOUT	SMK	2/18/13	mcarr0377
DRAWN	MGM	5/08/13	05/08/2013
REVIEWED	SMK	5/08/13	I:\NZ\data\NZL0028\CAD\Structr\Sheet\S-015-Pile.dgn

USER NAME =	DESIGNED - SMK	REVISED -
	CHECKED - FLN	REVISED -
PLOT SCALE =	DRAWN - MGM	REVISED -
PLOT DATE =	CHECKED - SMK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 004-6000
SHEET NO. 8 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	15
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		

85592

Boring Log — Page 1 of 2

PROJECT: Orth Road Bridge over Beaver Creek, Hanson Job #12L0028, Timberlane, IL

CLIENT: Hanson Professional Services, Inc., Rockford, Illinois

TSC

BORING: 1 | DATE STARTED: 8-21-12 | DATE COMPLETED: 8-22-12 | JOB: L-78,922

ELEVATIONS		WATER LEVEL OBSERVATIONS	
GROUND SURFACE	824.2	▼ WHILE DRILLING	10.5'
END OF BORING	764.2	▽ AT END OF BORING	10.0'
		▼ 24 HOURS	

DISTANCE BELOW SURFACE IN FEET

SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
						0.3	823.9	3.5" Hot-Mix Asphalt Surface Course
						1.2	823.0	10.5" Crushed Stone Base Course
A 1 B	SS	17	6.4 7.6		135	3.0	821.2	FILL - Dark brown to brown sandy CLAY, some gravel and bituminous fragments, moist (CL)
A 2 B	SS	13	11.9 15.5	3.75* 3.0*	122	6.0	818.2	Very tough grayish-brown very silty CLAY, trace to little sand and gravel, moist (CL)
3	SS	6	25.9	2.25*		8.0	816.2	Very tough light brown and light gray silty CLAY, trace mottling, moist (CL)
4	SS	10	11.2			11.0	813.2	Firm light brown to brown silty SAND, little gravel, trace clay, moist (SM)
5	SS	38						Dense to very dense light brown to light gray SAND and GRAVEL, occasional Cobbles, wet (SP/GP) Note: Cobble encountered in Sample 6.
6	SS	56				16.0	808.2	
7	SS	28				18.0	806.2	Firm light brown silty SAND, some gray silty fine sand seams, wet (SM)
A 8 B	SS	24	6.7	4.5*		19.8	804.4	Firm light brown SAND, some gravel, trace silt, wet (SP-SM)
9	SS	31	7.3	4.5*				Dense gray silty, clayey SAND, little gravel, occasional Cobbles, moist (SC-SM)
10	SS	36	7.3	3.71 3.5*		26.0	798.2	
11	SS	35	13.8			28.0	796.2	Dense light gray SILT, trace fine sand, wet (ML)
12	SS	68	11.7	4.5*		33.0	791.2	Hard grayish-brown very silty CLAY, some sand, little gravel, occasional sand seams and Cobbles, moist (CL-ML)
13	SS	21	16.2					Firm light gray silty fine SAND, wet (SM)

DRILL RIG NO. 334

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

End of Boring at 60.0'

Page 1 of 2

TSC_EOB 78922.GPJ TSC_ALL.GDT 10/24/12

Boring Log — Page 2 of 2

PROJECT: Orth Road Bridge over Beaver Creek, Hanson Job #12L0028, Timberlane, IL

CLIENT: Hanson Professional Services, Inc., Rockford, Illinois

TSC

BORING: 1 | DATE STARTED: 8-21-12 | DATE COMPLETED: 8-22-12 | JOB: L-78,922

ELEVATIONS		WATER LEVEL OBSERVATIONS	
GROUND SURFACE	824.2	▼ WHILE DRILLING	10.5'
END OF BORING	764.2	▽ AT END OF BORING	10.0'
		▼ 24 HOURS	

DISTANCE BELOW SURFACE IN FEET

SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
						38.0	786.2	Firm light gray silty fine SAND, wet (SM)
14	SS	57	7.2	4.27 4.5*				Dense to very dense gray silty, clayey SAND, little to some gravel, occasional Cobbles, moist (SC-SM) Sample 15: p200 = 42.4%
15	SS	44	6.9	7.63 4.5+*				
16	SS	35	7.6	4.46 4.0*				
17	SS	38	7.4	4.63 4.5*				
18	SS	32	8.1	4.25*				

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. 334

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

End of Boring at 60.0'

Page 2 of 2

TSC_EOB 78922.GPJ TSC_ALL.GDT 10/24/12

PROFESSIONAL DESIGN FIRM LICENSE #184-001084	USER NAME	DESIGNED - SMK	REVISED -
© Copyright Hanson Professional Services Inc. 2013		CHECKED - FLN	REVISED -
HANSON	PLOT SCALE	DRAWN - MGM	REVISED -
Hanson Professional Services Inc.	PLOT DATE	CHECKED - SMK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 004-6000
SHEET NO. 9 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	16
		CONTRACT NO. 85592		
	ILLINOIS FED. AID PROJECT			

LAYOUT SMK 2/18/13 | DRAWN MGM 5/08/13 | REVIEWED SMK 5/08/13

85592

PROJECT Orth Road Bridge over Beaver Creek, Hanson Job #12L0028, Timberlane, IL

CLIENT Hanson Professional Services, Inc., Rockford, Illinois

BORING 2 DATE STARTED 8-21-12 DATE COMPLETED 8-21-12 JOB L-78,922

ELEVATIONS

GROUND SURFACE 824.2

END OF BORING 764.2

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING 10.5 '

▽ AT END OF BORING 10.0 '

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
0								0.3	823.9	4.0" Hot-Mix Asphalt Surface Course
								1.5	822.7	14.0" Crushed Stone Base Course
		A 1 B	SS	21	5.0 6.6					FILL - Brown silty SAND, some gravel, crushed stone, concrete fragments and bituminous fragments, moist (SM)
5		2	SS	7	6.9					
								6.0	818.2	
		3	SS	5	10.9	1.0*	122			Tough dark brown sandy CLAY, moist (CL)
								8.0	816.2	Very soft dark gray to dark brown ORGANIC SILTY CLAY, some wood fragments, trace shells, very moist (OH)
10		A 4 B	SS	5	30.8 12.6	0.25* 1.25*	121	9.5	814.7	▽ ▼ Tough gray sandy CLAY, trace to little fine to medium gravel, very moist (CL)
		5	SS	10				11.0	813.2	
		6	SS	29						Firm light brown SAND and GRAVEL, trace silt and clay, occasional Cobbles, wet (SP/GP)
15		7	SS	28						
								16.0	806.2	
20		8	SS	14	7.8	3.92 4.5*				
		9	SS	23	7.4	3.92 4.5+*				Firm to dense gray silty, clayey SAND, little gravel, occasional Cobbles, moist (SC-SM)
25		10	SS	38	7.5	5.15 4.5+*				
		11	SS	41	7.6	5.62 4.5*				
30		12	SS	39	7.0	6.16 4.5+*				
								33.0	791.2	Dense gray silty SAND, trace gravel, wet (SM)
		13	SS	31	12.3 7.3	5.36		34.0	790.2	
35										End of Boring at 60.0'

DRILL RIG NO. 334

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT Orth Road Bridge over Beaver Creek, Hanson Job #12L0028, Timberlane, IL

CLIENT Hanson Professional Services, Inc., Rockford, Illinois

BORING 2 DATE STARTED 8-21-12 DATE COMPLETED 8-21-12 JOB L-78,922

ELEVATIONS

GROUND SURFACE 824.2

END OF BORING 764.2

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING 10.5 '

▽ AT END OF BORING 10.0 '

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
35		B				4.5*				
		14	SS	32	7.7	4.65 4.5+*				
40										
		15	SS	32	7.1	5.24 4.5+*				
45										Dense gray silty, clayey SAND, little gravel, occasional Cobbles, moist (SC-SM)
		16	SS	39	7.4	6.04 4.5+*				
50										
		17	SS	41	7.5	6.21 4.5+*				
55										
		18	SS	33	8.0	6.04 4.5*				
60										
65										
70										End of Boring at 60.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. 334

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC_EOB 78922.GPJ TSC_ALL.GDT 10/24/12

LAYOUT	SMK	2/18/13	mdot/00377
DRAWN	MGM	5/08/13	05/08/2013
REVIEWED	SMK	5/08/13	I:\12Jobs\12L0028\C\AD\Struct\Sheet\S-01P-Bor1.dgn

PROFESSIONAL DESIGN FIRM LICENSE #184-001064

HANSON Hanson Professional Services Inc.

USER NAME =	DESIGNED - SMK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - FLN	REVISED -	
PLOT SCALE =	DRAWN - MGM	REVISED -	BORING LOGS STRUCTURE NO. 004-6000
PLOT DATE =	CHECKED - SMK	REVISED -	SHEET NO. 10 OF 10 SHEETS

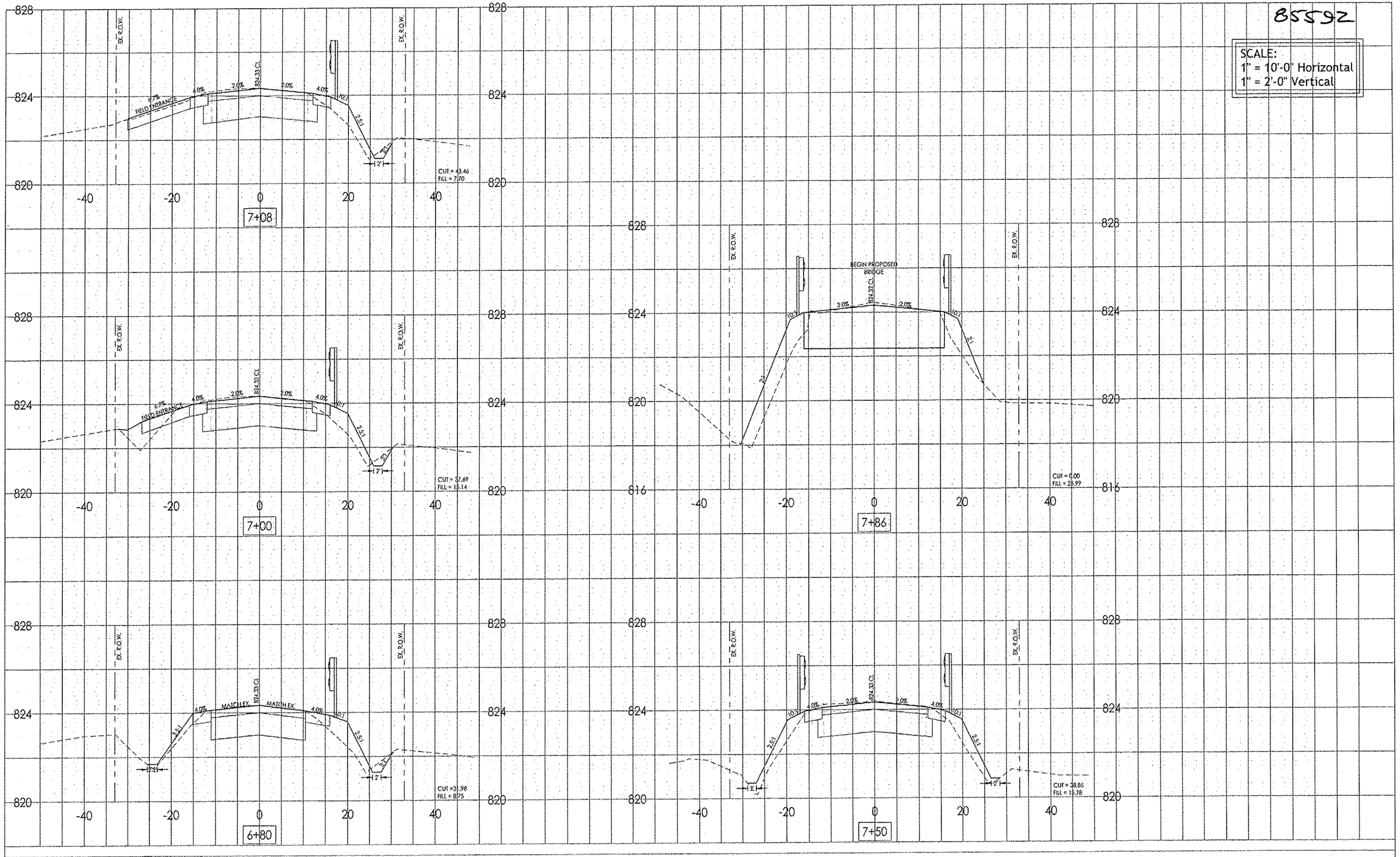
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	17
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		

85592

SCALE:
1" = 10'-0" Horizontal
1" = 2'-0" Vertical

PLAN
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
R.P. NOTED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
R.P. NOTED
STRUCTURE NOTATIONS OF KB
NOTE BOOK
NO.
BY
DATE



FILE NAME =	USER NAME = JOHNB	DESIGNED — JAB	REVISED — MAY 6, 2013
G:\FILES\BOONE\TIMBERLANE\ 3260 Orth Road Bridge\ 3260_CURRENTPROJ \dwg\3260_BASE		DRAWN — JAB	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — KCB	REVISED —
	PLOT DATE = 02/25/2013	DATE —05/08/2013	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ORTH ROAD BRIDGE REPLACEMENT
TIMBERLANE, ILLINOIS

SCALE: AS SHOWN | SHEET NO. 18 OF 20 SHEETS | STA. 6+80 | TO STA. 7+86

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	18
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		

85592

SCALE:
1" = 10'-0" Horizontal
1" = 2'-0" Vertical

PLAN
SURFACED
NOTED
ALIGNMENT CHECKED
BY M. MOYER CHECKED
NOTE BOOK
NO.

PROFILE
SURFACED
NOTED
GRASS CHECKED
B. M. NOTED
PAVEMENT NO. CHECKED
NOTE BOOK
NO.

DATE
BY

824.25 CL
2.0%
2.0%
CUT = 0.00
FILL = 0.00
8+40

EX. R.O.W.
END PROPOSED BRIDGE
824.03 CL
10:1
2.0%
2.0%
2:1
CUT = 0.00
FILL = 27.62
8+94

EX. R.O.W.
PROPOSED BRIDGE
824.31 CL
2.0%
2.0%
CUT = 0.00
FILL = 0.00
8+00

EX. R.O.W.
PROPOSED BRIDGE
824.20 CL
2.0%
2.0%
CUT = 0.00
FILL = 0.00
8+50

FILE NAME = G:\FILES\BOONE\TIMBERLANE\3260 Orth Road Bridge\3260_CURRENTPROJ \dwg\3260_BASE	USER NAME = JOHNB	DESIGNED — JAB	REVISED — MAY 8, 2013
		DRAWN — JAB	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — KCB	REVISED —
	PLOT DATE = 05/08/2013	DATE — 02/25/2013	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ORTH ROAD BRIDGE REPLACEMENT
TIMBERLANE, ILLINOIS

SCALE: AS SHOWN | SHEET NO. 19 OF 20 SHEETS | STA. 8+00 | TO STA. 8+94

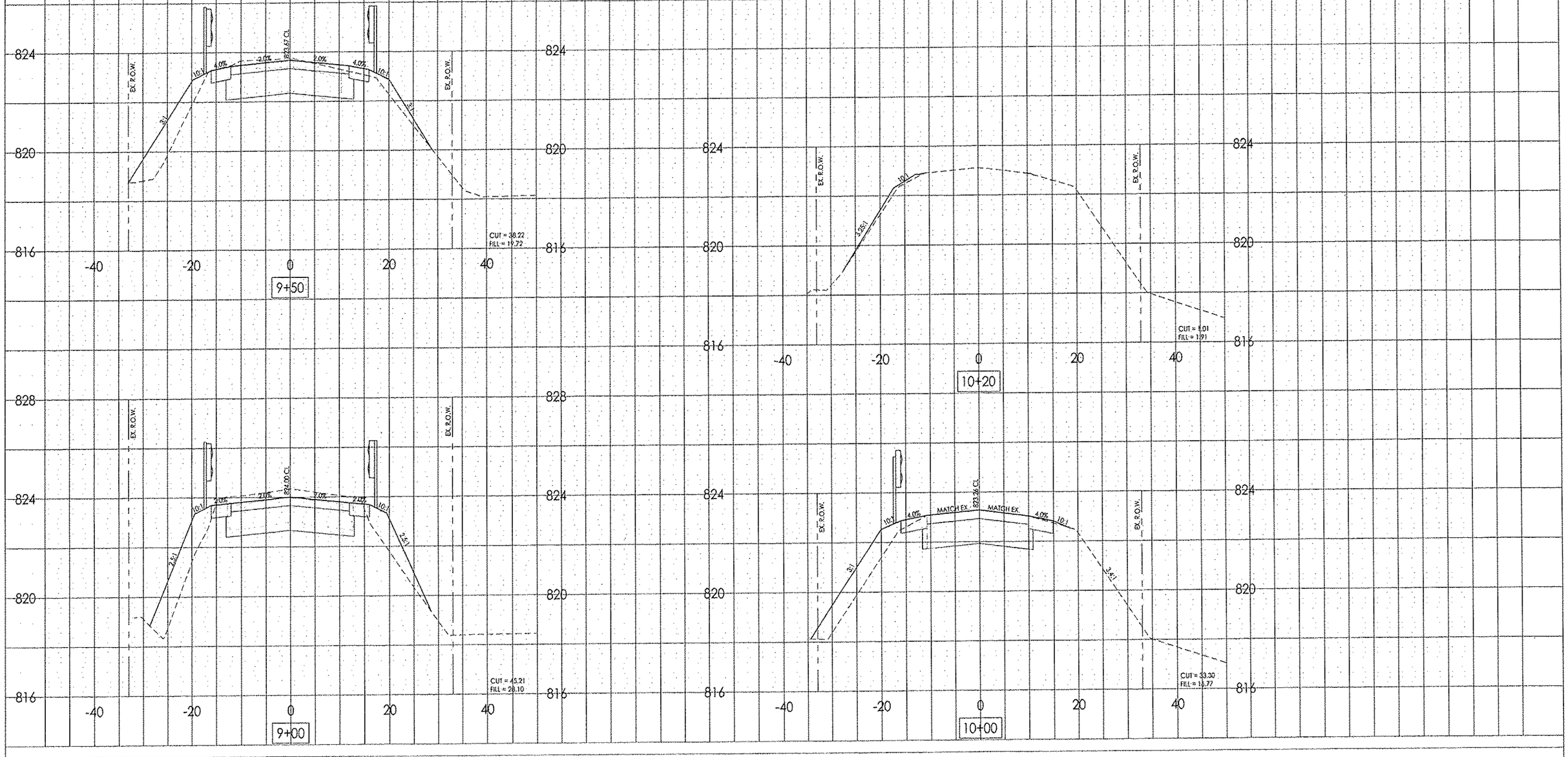
F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	19
		CONTRACT NO. 85592		
	ILLINOIS FED. AID PROJECT			

85592

SCALE:
1" = 10'-0" Horizontal
1" = 2'-0" Vertical

PLAN
DIGITIZED
PLOTTED
CROSS CHECKED
R.O.W. NOTED
NOTE BOOK
NO. ____
CADD FILE NAME

PROFILE
DIGITIZED
PLOTTED
CROSS CHECKED
R.O.W. NOTED
NOTE BOOK
NO. ____
ESTIMATED QUANTITIES NOTATED ON PLAN



FILE NAME = G:\FILES\BOONE\TIMBERLANE\ 3260 Orth Road Bridge\ 3260_CURRENTPROJ \dwg\3260_BASE	USER NAME = JOHNB	DESIGNED — JAB	REVISED — MAY 8, 2013
		DRAWN — JAB	REVISED —
	PLOT SCALE = AS SHOWN	CHECKED — KCB	REVISED —
	PLOT DATE = 05/08/2013	DATE — 02/25/2013	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ORTH ROAD BRIDGE REPLACEMENT
TIMBERLANE, ILLINOIS

SCALE: AS SHOWN | SHEET NO. 20 OF 20 SHEETS | STA. 9+00 | TO STA. 10+20

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5208	12-00089-00-BR	BOONE	20	20
		CONTRACT NO. 85592		
		ILLINOIS FED. AID PROJECT		