

06-14-13 LETTING ITEM 085

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 793 (IL 143)

SECTION 40BR-1

STRUCTURE REPLACEMENT

MADISON COUNTY

C-98-008-07

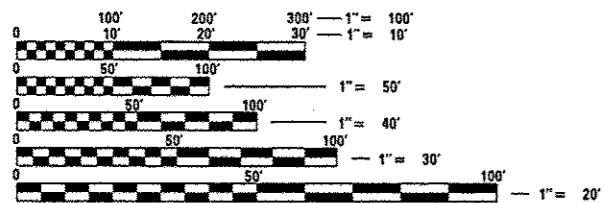
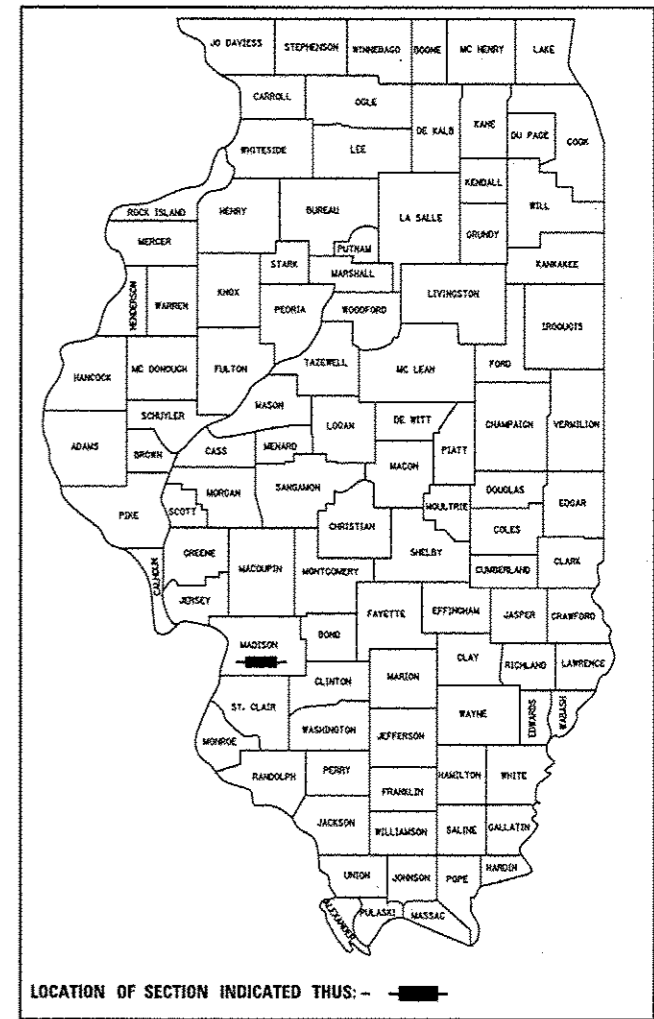
PROJECT ACF-0793(022)

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 76A36		

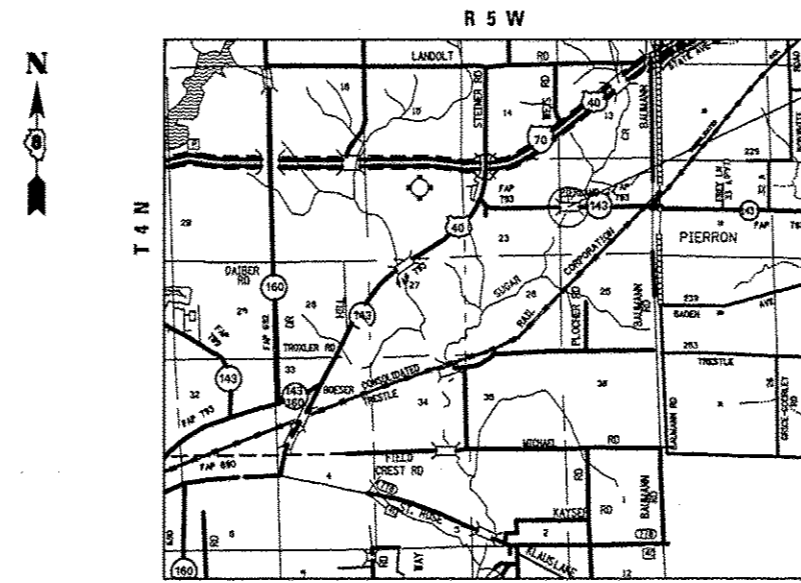
X 72 + 4 = 76

D-98-008-07

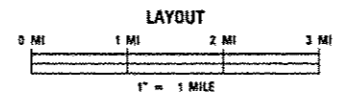


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



TWO SPAN PCC DECK BEAM STRUCTURE TO BE REPLACED WITH SINGLE SPAN STEEL I-BEAM STRUCTURE OVER SUGAR CREEK
SN 060-0128(E) 0341(P)
STA. 56 + 45.00
80'-0" BK TO BK ABUTMENTS



GROSS LENGTH = 0.015 MILES
NET LENGTH = 0.015 MILES

LATITUDE: 38.4646
LONGITUDE: -89.3653

PROJECT ENGINEER: PATTI LOBEAU (618) 346-3179
PROJECT MANAGER: REBECCA THARP (618) 346-3323

CONTRACT NO. 76A36

TRAFFIC DATA:
ADT = 3700 (2007)
ADT = 4600 (2027)
SU = 3.4%
MU = 4.7%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 12, 2012

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

May 10, 2013
John D. Baranzelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2013
Chris Osburn, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

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HIGHWAY STANDARDS

000001-06	635006-03	701321-13
280001-07	635011-02	701326-04
515001-03	666001-01	701901-02
630001-10	667101-02	704001-07
630301-06	701306-03	720006-03
631031-11	701311-03	780001-03
601101-01		781001-03

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
2. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - AMEREN ILLINOIS (ELECTRIC & GAS)
 - CENTERPOINT ENERGY (PIPELINE)
 - CITY OF HIGHLAND (ELECTRIC)
 - VILLAGE OF PIERRON (WATER & SANITARY SEWER)
 - FRONTIER NORTH, INC. (COMMUNICATIONS)
 MEMBERS OF J.U.L.I.E. (800) 892-0123 OR 811 ARE INDICATED BY AN "X". NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
3. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT AND ALL INTERSECTING SIDE ROADS AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE, 48".
4. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE, IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. ALL EXISTING RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
6. RIGHT-OF-WAY MARKERS SHALL BE SET SO THE BACK OF THE POST IS TWELVE (12) INCHES INSIDE THE RIGHT OF WAY BOUNDARY. RIGHT OF WAY CORNERS ARE MARKED BY A 3/8" IRON ROD WITH IDOT ALUMINUM CAP AND SHALL NOT BE REMOVED OR DAMAGED WHEN SETTING THE RIGHT OF WAY MARKERS.
7. A QUANTITY OF 1037.5 FEET OF "TEMPORARY PAVEMENT MARKING - LINE 6 INCH" WHITE HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.
8. THE EXISTING BRIDGE RAIL AND MOUNTING HARDWARE SHALL BE REMOVED PRIOR TO DEMOLITION OF THE EXISTING STRUCTURE AND BECOME THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THIS MATERIAL SHALL BE DELIVERED TO THE HIGHLAND MAINTENANCE FACILITY LOCATED AT 12540 SPORTSMAN ROAD, HIGHLAND, IL 62249. THE FACILITY SHALL BE NOTIFIED PRIOR TO DELIVERY BY CONTACTING TODD REILSON AT 618-654-5110. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THIS WORK WILL BE INCLUDED IN THE COST OF "REMOVAL OF EXISTING STRUCTURES".
9. TWO "NO PASSING ZONE" SIGNS WILL NEED TO BE RELOCATED DUE TO CONSTRUCTION ACTIVITIES. THE SIGNS ARE APPROXIMATELY LOCATED AT STA. 53+84, 19' LT. AND STA. 55+70, 21' RT. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS WITH COSTS TO BE INCLUDED IN THE COST OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

COMMITMENTS

A COMMITMENT WAS MADE TO STEVEN J. FREY AND SHARON L. FREY (PARCEL NO. 8823021) AND IT IS AS FOLLOWS:

A LICENSED ILLINOIS PROFESSIONAL LAND SURVEYOR, AS RETAINED BY THE CONTRACTOR, SHALL SET 3/8" X 30" REBAR WITH A PLASTIC CAP BEARING THE SURVEYOR'S LICENSE NUMBER AT THE CORNER LOCATED AT STATION 52+39.57, 34.73' LEFT.

PERTINENT INFORMATION

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IN WRITING OF THE ANTICIPATED DRIVING AND RE-STRIKE DATE(S) OF THE PILE(S) TO BE DYNAMICALLY MONITORED TO ALLOW THE RESIDENT ENGINEER TO INFORM DR. LONG AT (217-333-2543) AND THE GEOTECHNICAL ENGINEER - VENIECY PEARMAN-GREEN (618-346-3313) OF THE SCHEDULE. THE CONTRACTOR SHALL PROVIDE THE COMPLETED PILE DRIVING EQUIPMENT DATA FORM AND WRITTEN DRIVING AND RE-STRIKE DATES TO THE RESIDENT ENGINEER AND TO DR. LONG A MINIMUM OF TWO WEEKS PRIOR TO DRIVING THE FIRST DYNAMICALLY MONITORED PILE.

FILE NAME *	USER NAME * ml10101m	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwork\p10dot\ml10101m\des69644\p1010107e.dgn		DRAWN -	REVISED -			793	40BR-1	MADISON	72	2
PLOT SCALE * 100.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 76A36				
PLOT DATE * 12/28/2012		DATE -	REVISED -			SCALE:		SHEET NO. OF SHEETS		STA. TO STA.
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011 FEDERAL 80% STATE 20%		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1460	1460		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	630	630		
20200100	EARTH EXCAVATION	CU YD	2050	2050		
20200500	EARTH EXCAVATION (WIDENING)	CU YD	50	50		
20300100	CHANNEL EXCAVATION	CU YD	825	825		
20400800	FURNISHED EXCAVATION	CU YD	1685	1685		
* 25000200	SEEDING, CLASS 2	ACRE	1.5	1.5		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	135	135		
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135	135		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135	135		
* 25100115	MULCH, METHOD 2	ACRE	1.5	1.5		
25100630	EROSION CONTROL BLANKET	SQ YD	1390	1390		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	450	450		
28000305	TEMPORARY DITCH CHECKS	FOOT	370	370		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011 FEDERAL 80% STATE 20%		
28000400	PERIMETER EROSION BARRIER	FOOT	365	365		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
X2810106	STONE RIPRAP, CLASS A3 (SPECIAL)	SQ YD	60	60		
28100109	STONE RIPRAP, CLASS A5	SQ YD	801	801		
28200200	FILTER FABRIC	SQ YD	861	861		
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	570	570		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.6	0.6		
40600300	AGGREGATE (PRIME COAT)	TON	3	3		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	390	390		
40600990	TEMPORARY RAMP	SQ YD	111	111		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1140	1140		
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	168	168		

*SPECIALTY ITEM

FILE NAME :	USER NAME : #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS T2	SHEET NO. 3
#FILE#	PLOT SCALE : #SCALE#	DRAWN -	REVISIED -			SCALE:		SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT
	PLOT DATE : #DATE#	CHECKED -	REVISIED -							CONTRACT NO. 76A36

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011 FEDERAL 80% STATE 20%		
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	276	276		
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	55	55		
44000100	PAVEMENT REMOVAL	SQ YD	310	310		
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	540	540		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	340	340		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	45	45		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50105220	PIPE CULVERT REMOVAL	FOOT	75	75		
50200100	STRUCTURE EXCAVATION	CU YD	262	262		
50300225	CONCRETE STRUCTURES	CU YD	48	48		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	137.1	137.1		
50300260	BRIDGE DECK GROOVING	SQ YD	338	338		
50300280	CONCRETE ENCASEMENT	CU YD	6.6	6.6		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011 FEDERAL 80% STATE 20%		
50300300	PROTECTIVE COAT	SQ YD	423	423		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1		
50500505	STUD SHEAR CONNECTORS	EACH	1692	1692		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	36,950	36,950		
50800515	BAR SPLICERS	EACH	401	401		
51201800	FURNISHING STEEL PILES HP14X73	FOOT	457	457		
51202305	DRIVING PILES	FOOT	457	457		
51203800	TEST PILE STEEL HP14X73	EACH	1	1		
51500100	NAME PLATES	EACH	1	1		
52100520	ANCHOR BOLTS, 1"	EACH	24	24		
54213450	END SECTIONS 15"	EACH	2	2		
54213471	END SECTIONS 36"	EACH	2	2		
54201060	PIPE CULVERTS, CLASS D, TYPE 2 15"	FOOT	35	35		

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 4
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					SCALE: SHEET NO. OF SHEETS STA. TO STA.					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011 FEDERAL 80% STATE 20%			CODE NO	ITEM	UNIT		0011 FEDERAL 80% STATE 20%		
542D1081	PIPE CULVERTS, CLASS D, TYPE 2 36"	FOOT	40	40		70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	93	93		70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6			
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	500	500		70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2			
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		* 70300100	SHORT-TERM PAVEMENT MARKING	FOOT	112	112			
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		* 70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3081	3081			
63200310	GUARDRAIL REMOVAL	FOOT	675	675		* 70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1037.5	1037.5			
63301210	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	250	250		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1065	1065			
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	14	14		70400100	TEMPORARY CONCRETE BARRIER	FOOT	587.5	587.5			
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	3	3		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	450	450			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	16	16		70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2			
67100100	MOBILIZATION	L SUM	1	1		70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2			
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2599	2599			

12

12

*SPECIALTY ITEM

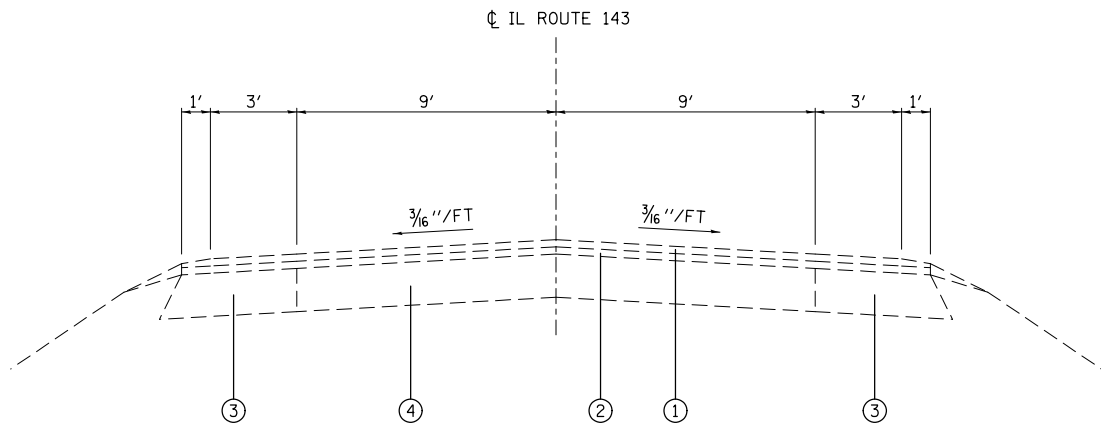
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#FILE#		DRAWN -	REVISED -			793	40BR-1	MADISON	72	4c	
PLOT SCALE * SCALE*		CHECKED -	REVISED -			CONTRACT NO. 76A36					
PLOT DATE * DATE*		DATE -	REVISED -			SCALE:		SHEET NO. OF SHEETS STA.		TO STA.	

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011 FEDERAL 80% STATE 20%			CODE NO	ITEM	UNIT		0011 FEDERAL 80% STATE 20%		
*78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	482	482			X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1		
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9			*X7200200	WIDE LOAD SIGNING	L SUM	1	1		
*78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2	2			Z0026407	TEMPORARY SHEET PILING	SQ FT	418	418		
*78200410	GUARDRAIL MARKERS, TYPE A	EACH	10	10			Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	202	202		
*78200520	BARRIER WALL MARKERS, TYPE B	EACH	2	2			Z0064505	SECTION CORNER MARKERS	EACH	1	1		
*78200530	BARRIER WALL MARKERS, TYPE C	EACH	2	2			Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	126	126		
*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4			+Z0076600	TRAINEES	HOUR	500	500		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1027	1027			+Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9	9									
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	168	168									
X6330103	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, TANGENT	EACH	2	2									
X6660445	RIGHT-OF-WAY AND PROPERTY CORNERS	EACH	1	1									

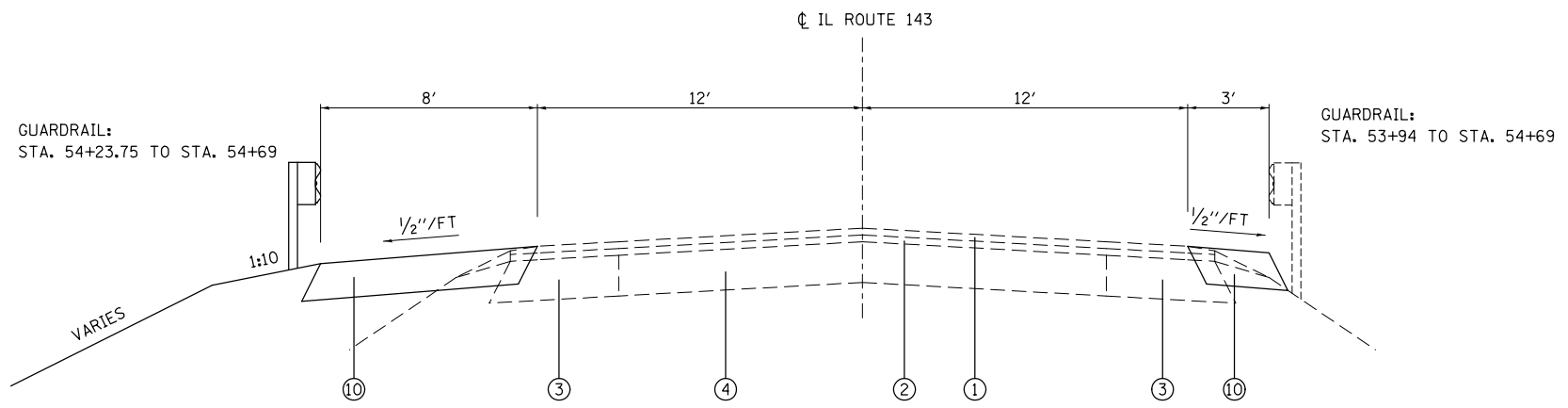
*SPECIALTY ITEM 6 +0042

FILE NAME *	USER NAME * #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 4b
#FILE#		DRAWN -	REVISED -							
		CHECKED -	REVISED -							
		DATE -	REVISED -							



EXISTING TYPICAL SECTION

STA. 52+20 TO STA. 55+97
STA. 56+93 TO STA. 61+05

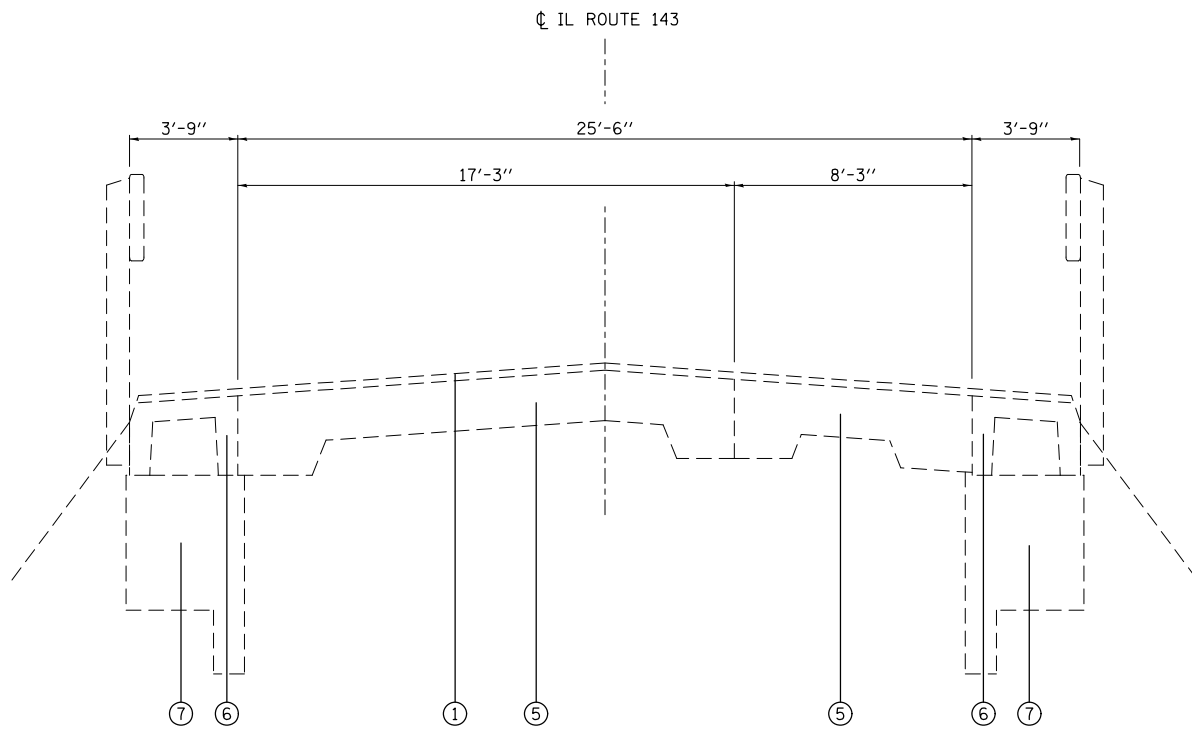


STAGE I

PROPOSED TYPICAL SECTION

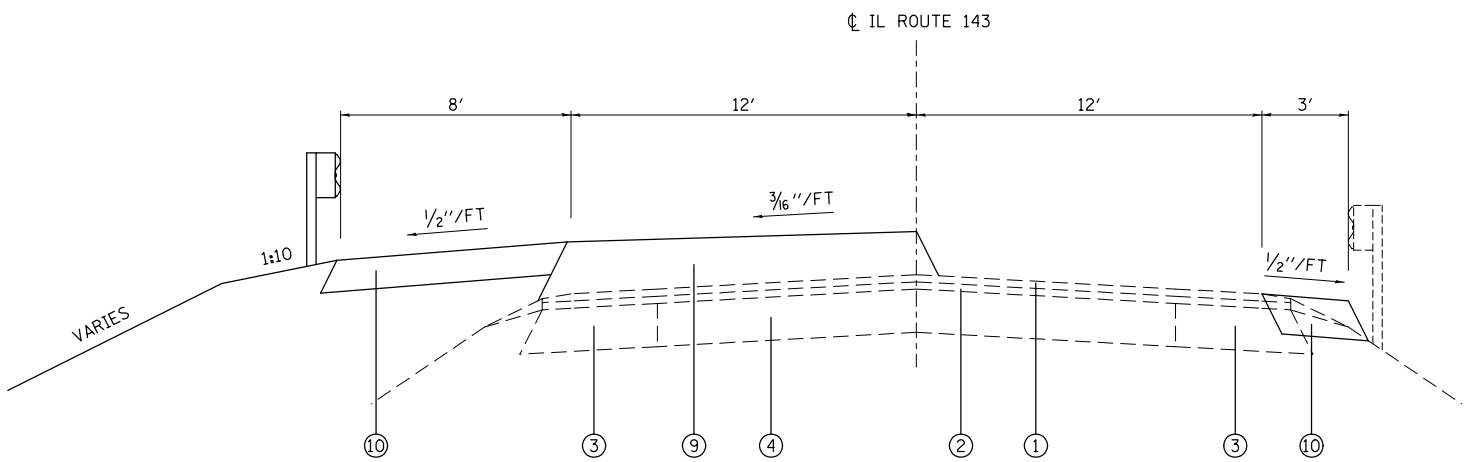
STA. 53+50 TO STA. 54+69
STA. 57+21 TO STA. 59+50

PRE-STAGE I



EXISTING TYPICAL SECTION

STA. 55+97 TO STA. 56+17
STA. 56+73 TO STA. 56+93



STAGE I

PROPOSED TYPICAL SECTION

STA. 54+69 TO STA. 55+69
STA. 57+21 TO STA. 59+50

PRE-STAGE I

STA. 54+69 TO STA. 55+97
STA. 56+93 TO STA. 59+50

LEGEND

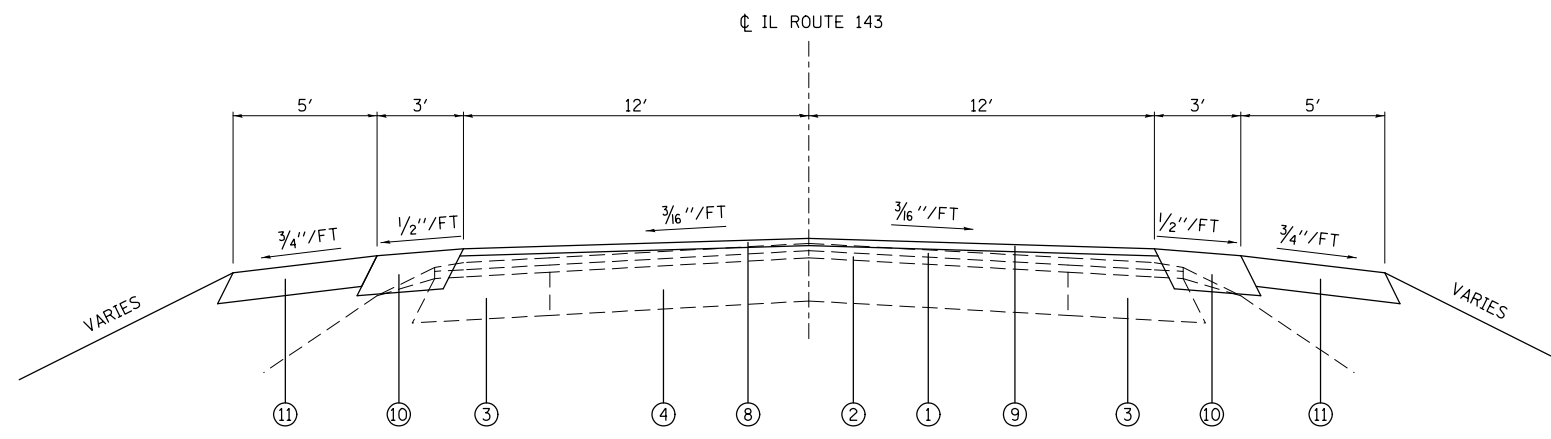
- ① EXISTING BITUMINOUS SURFACE COURSE, CLASS I 1/2"
- ② EXISTING BITUMINOUS BINDER COURSE, 1/2"
- ③ EXISTING BITUMINOUS BASE COURSE WIDENING 9"
- ④ EXISTING PAVEMENT
- ⑤ EXISTING P.C.C. BASE COURSE 16 1/2"-10 1/2"-16 1/2"
- ⑥ EXISTING PRECAST UNIT
- ⑦ EXISTING CONCRETE APPROACH CAP
- ⑧ PROPOSED HMA SURFACE COURSE - 1 1/2"
- ⑨ PROPOSED HMA BINDER COURSE - VARIES (APPROX. 1/4" TO 2"-4")
- ⑩ PROPOSED HMA BASE COURSE WIDENING - 9"
- ⑪ PROPOSED AGGREGATE SHOULDERS, TYPE A - 6"
- ⑫ PROPOSED HMA SHOULDERS

MIXTURE CHART

MIXTURE USE	SURFACE	BINDER / WIDENING	SHOULDERS	TOP LIFT SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	10%	15%	30%	30%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	2.0% @ Ndes=30	••2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0		
FRICTION AGG	MIXTURE "C"	MIXTURE "B"	BAM	BAM

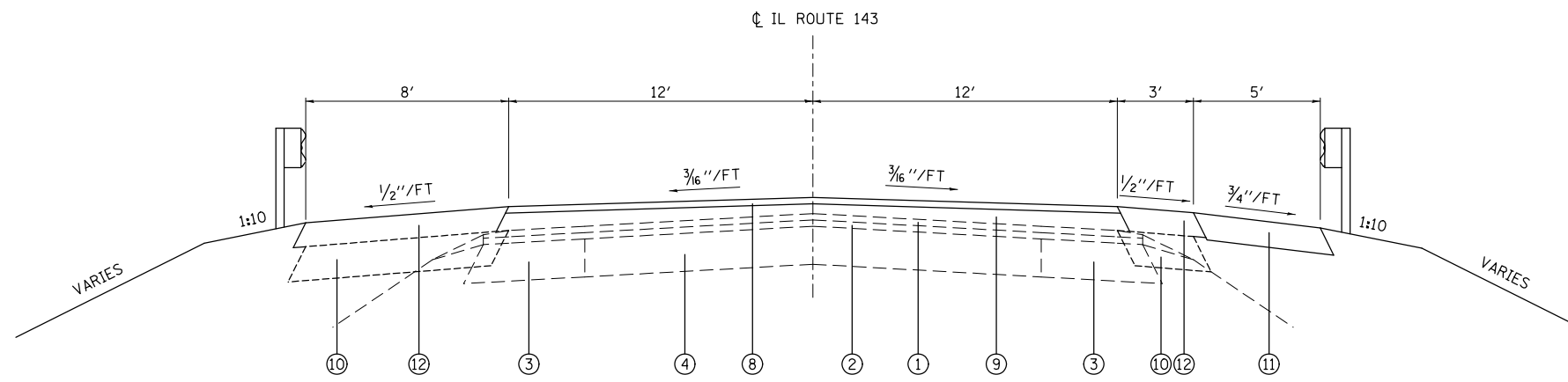
•• TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.



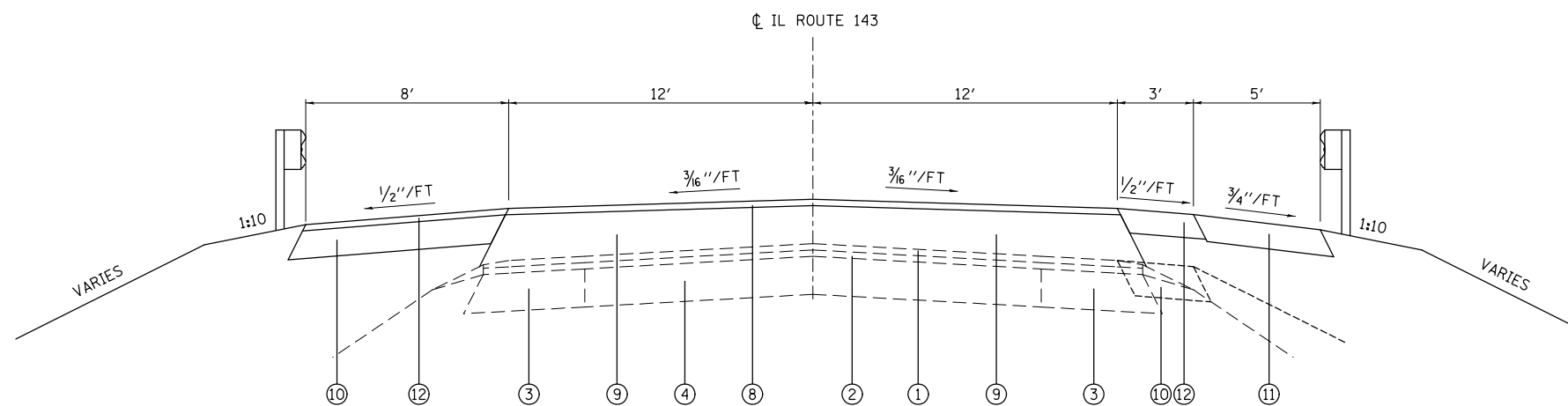
PROPOSED TYPICAL SECTION

STA. 52+20 TO STA. 53+50
 STA. 59+50 TO STA. 61+05



PROPOSED TYPICAL SECTION

STA. 53+50 TO STA. 54+69
 STA. 58+21 TO STA. 59+50



PROPOSED TYPICAL SECTION

STA. 54+69 TO STA. 55+69
 STA. 57+21 TO STA. 58+21

LEGEND

- ① EXISTING BITUMINOUS SURFACE COURSE, CLASS I 1 1/2"
- ② EXISTING BITUMINOUS BINDER COURSE, 1 1/2"
- ③ EXISTING BITUMINOUS BASE COURSE WIDENING 9"
- ④ EXISTING PAVEMENT
- ⑤ EXISTING P.C.C. BASE COURSE 16 1/2"-10 1/2"-16 1/2"
- ⑥ EXISTING PRECAST UNIT
- ⑦ EXISTING CONCRETE APPROACH CAP
- ⑧ PROPOSED HMA SURFACE COURSE - 1 1/2"
- ⑨ PROPOSED HMA BINDER COURSE - VARIES (APPROX. 1 1/4" TO 2'-4")
- ⑩ PROPOSED HMA BASE COURSE WIDENING - 9"
- ⑪ PROPOSED AGGREGATE SHOULDERS, TYPE A - 6"
- ⑫ PROPOSED HMA SHOULDERS

FILE NAME =	USER NAME = gelnh	DESIGNED -	REVISED -
et:\pw\work\p\dot\gelnh\dms69644\pin0007a.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/10/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	6
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE

LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	HOT-MIX ASPHALT SHOULDERS, 8"	HOT-MIX ASPHALT SHOULDERS	AGGREGATE SHOULDERS, TYPE A 6"
STATION TO STATION	TON	TON	SQ YDS	TONS	SQ YDS	SQ YDS	TON	SQ YD
STA 52+20 TO STA 55+69	0.29	1.4	80	373	215	160	17	240
STA 57+21 TO STA 61+05	0.31	1.6	88	767	175	180	28	300
TOTAL	0.6	3	168	1140	390	340	45	540

LAND ACQUISITION MARKERS SCHEDULE

LOCATION	RIGHT OR LEFT	OFFSET	ROW MARKERS EACH	PERMANENT SURVEY MARKERS EACH	SECTION CORNER MARKERS EACH	ROW AND PROPERTY CORNERS EACH
STA 51+06.56		CL		1		
STA 51+50.00	LT	34.69'	1			
STA 51+50.00	RT	35.31'	1			
STA 52+39.57	LT	34.73'				1
STA 52+40.22	RT	1.34'			1	
STA 52+75.00	LT	79.75'	1			
STA 52+75.00	RT	70.25'	1			
STA 56+00.00	LT	79.92'	1			
STA 56+45.00		CL		1		
STA 56+50.00	RT	70.06'	1			
STA 57+50.00	LT	54.99'	1			
STA 58+00.80	RT	49.98'	1			
STA 60+50.00	LT	55.15'	1			
STA 60+50.00	RT	49.85'	1			
STA 61+80.83		CL		1		
STA 61+99.48	LT	30.22'	1			
STA 61+99.48	LT	35.22'	1			
STA 61+99.51	RT	29.78'	1			
STA 61+99.51	RT	34.78'	1			
TOTAL			14	3	1	1

STAGING SCHEDULE

LOCATION	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	PAVEMENT REMOVAL	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)	IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE)	TEMPORARY RUMBLE STRIP	TEMPORARY PAVEMENT MARKING - LINE 6"
	SQ YD	SQ YD	FOOT	FOOT	EACH	EACH	EACH	FOOT
STAGE I	170	171	587.5		2		3	587.5
STAGE II	400	139		450		2	3	450
TOTAL	570	310	587.5	450	2	2	6	1037.5

GUARDRAIL SCHEDULE

LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	BARRIER WALL MARKERS, TYPE C	TERMINAL MARKER - DIRECT APPLIED	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL, TYPE A
	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT
NORTH SIDE					5	1	1			
SOUTH SIDE					5	1	1			
NW QUADRANT	123	87.5	1	1				1	1	87.5
NE QUADRANT	209	162.5	1	1				1	1	162.5
SW QUADRANT	220	162.5	1	1				1		
SE QUADRANT	123	87.5	1	1				1		
TOTAL	675	500	4	4	10	2	2	4	2	250

PAVEMENT MARKING SCHEDULE

LOCATION	THERMOPLASTIC PAVEMENT MARKING				POLYUREA PAVEMENT MARKING				PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	SHORT TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING				WORK ZONE PAVEMENT MARKING REMOVAL					
	SKIP-DASH CENTERLINE 4" YELLOW	SOLID CENTERLINE 4" YELLOW	EDGE LINE 4" WHITE		SKIP-DASH CENTERLINE 4" YELLOW	SOLID CENTERLINE 4" YELLOW	EDGE LINE 4" WHITE							FOOT	EACH	EACH	EACH		FOOT	SKIP-DASH CENTERLINE 4" YELLOW	SOLID CENTERLINE 4" YELLOW	EDGE LINE 4" WHITE	
			LT	RT			LT	RT														FOOT	FOOT
STA 52+07.00 TO STA 54+00.00	50	193	193	193					210	3	3		18	50	193	193	193	216					
STA 54+00.00 TO STA 55+75.00		350	175	175					233	2	2		25	350	175	175		242					
STA 55+75.00 TO STA 56+17.00							84	42	42	56		0	4	84	42	42		57					
STA 56+17.00 TO STA 57+15.00					20	98	98	98	105			2	17	20	98	98	98	110					
STA 57+15.00 TO STA 61+05.00	100	390	390	390					423	4	4		48	100	390	390	390	440					
SUB-TOTAL	150	933	758	758	20	182	140	140						170	1115	898	898						
TOTAL						2599			1027	9	9	2	112		3081			1065					

EARTHWORK SCHEDULE - STAGE I

LOCATION		EARTH EXCAVATION (WIDENING)	ROADWAY EXCAVATION	TOTAL EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	TO STATION	CU YD	CU YD	CU YD	CU YD	CU YD	CUYD
STA 51+50.00	TO STA 52+00.00						
STA 52+00.00	TO STA 52+50.00						
STA 52+50.00	TO STA 53+00.00						
STA 53+00.00	TO STA 53+50.00	2.2	2.0	4.2	3.2	39.8	-36.6
STA 53+50.00	TO STA 54+00.00	4.0	25.6	29.6	22.2	95.8	-73.6
STA 54+00.00	TO STA 54+50.00	4.0	23.6	27.6	20.7	113.0	-92.3
STA 54+50.00	TO STA 55+00.00	3.3	2.0	5.3	4.0	155.6	-151.6
STA 55+00.00	TO STA 55+50.00	3.0	52.0	55.0	41.3	228.2	-186.9
STA 55+50.00	TO STA 56+00.00	1.6	149.8	151.4	113.4	312.5	-199.1
STA 57+00.00	TO STA 57+50.00	2.3		2.3	1.8	262.1	-260.3
STA 57+50.00	TO STA 58+00.00	4.9		4.9	3.7	179.6	-175.9
STA 58+00.00	TO STA 58+50.00	5.9		5.9	4.5	106.5	-102.0
STA 58+50.00	TO STA 59+00.00	6.4		6.4	4.8	21.8	-17.1
STA 59+00.00	TO STA 59+50.00	7.7		7.7	5.8	3.6	2.2
STA 59+50.00	TO STA 60+00.00	4.7		4.7	3.6	0.4	3.2
STA 60+00.00	TO STA 60+50.00						
STA 60+50.00	TO STA 61+00.00						
STA 61+00.00	TO STA 61+50.00						
SUBTOTAL - STAGE I		50	255	305	229.0	1519	-1290

CHANNEL EXCAVATION SCHEDULE

LOCATION		CHANNEL EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	CHANNEL EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	TO STATION	CU YD	CU YD	CU YD	CUYD
STA 0+10.00	TO STA 0+20.00	21.7	16.3		16.3
STA 0+20.00	TO STA 0+30.00	51.1	38.3		38.3
STA 0+30.00	TO STA 0+40.00	67.2	50.4		50.4
STA 0+40.00	TO STA 0+50.00	78.4	58.8		58.8
STA 0+50.00	TO STA 0+60.00	86.3	64.7	1.6	63.1
STA 0+60.00	TO STA 0+70.00	90.9	68.2	4.3	63.9
STA 0+70.00	TO STA 0+80.00	89.3	67.0	7.2	59.7
STA 0+80.00	TO STA 0+90.00	82.1	61.6	6.9	54.7
STA 0+90.00	TO STA 1+00.00	68.9	51.7	10.6	41.1
STA 1+00.00	TO STA 1+10.00	50.0	37.5	24.8	12.7
STA 1+10.00	TO STA 1+20.00	35.8	26.9	16.6	10.3
STA 1+20.00	TO STA 1+30.00	36.2	27.2		27.2
STA 1+30.00	TO STA 1+40.00	43.4	32.6		32.6
STA 1+40.00	TO STA 1+50.00	23.7	17.8		17.8
SUBTOTAL		825	619	72	547

EARTHWORK SCHEDULE - FINAL

LOCATION		ROADWAY EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	TO STATION	CU YD	CU YD	CU YD	CUYD
STA 51+50.00	TO STA 52+00.00	10.7	8.1	67.2	-59.1
STA 52+00.00	TO STA 52+50.00	20.2	15.2	117.4	-102.2
STA 52+50.00	TO STA 53+00.00	38.8	29.1	48.1	-19.0
STA 53+00.00	TO STA 53+50.00	105.5	79.2	121.0	-41.8
STA 53+50.00	TO STA 54+00.00	85.7	64.3	162.1	-97.8
STA 54+00.00	TO STA 54+50.00	142.6	107.0	185.8	-78.8
STA 54+50.00	TO STA 55+00.00	112.5	84.4	191.8	-107.4
STA 55+00.00	TO STA 55+50.00	88.0	66.0	165.6	-99.6
STA 55+50.00	TO STA 56+00.00	116.6	87.5	175.6	-88.1
STA 57+00.00	TO STA 57+50.00			178.0	-178.0
STA 57+50.00	TO STA 58+00.00			105.6	-105.6
STA 58+00.00	TO STA 58+50.00	2.7	2.1	112.8	-110.7
STA 58+50.00	TO STA 59+00.00	39.8	29.9	85.3	-55.4
STA 59+00.00	TO STA 59+50.00	159.7	119.8	20.0	99.8
STA 59+50.00	TO STA 60+00.00	280.3	210.3	4.3	206.0
STA 60+00.00	TO STA 60+50.00	322.9	242.2	1.4	240.8
STA 60+50.00	TO STA 61+00.00	217.1	162.9		162.9
STA 61+00.00	TO STA 61+50.00	51.9	39.0		39.0
SUBTOTAL - FINAL		1795	1347	1742	-395
SUBTOTAL - STAGE I		255	229	1519	-1290
TOTAL		2050	1576	3261	-1685

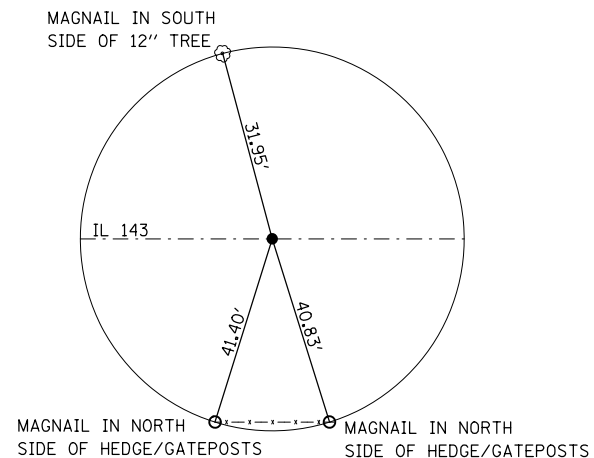
TREE REMOVAL SCHEDULE

LOCATION		RIGHT OR LEFT	TREE REMOVAL (6 TO 15 UNITS)	TREE REMOVAL (OVER 15 UNITS)
STATION	OFFSET		UNITS	UNITS
51+75.51	35.9	RT	10	
51+80.87	35.3	RT	8	
51+86.80	38.1	RT		24
51+88.36	34.9	RT		18
51+91.20	33.7	RT	6	
51+92.20	33.3	RT	8	
52+12.39	36.4	RT	10	
52+14.29	44.0	RT	10	
52+17.46	-34.1	LT		20
52+24.87	51.2	RT	8	
52+41.95	-39.1	LT	6	
52+42.10	-35.0	LT	8	
52+42.68	-38.4	LT	6	
52+99.45	-36.7	LT	8	
53+02.00	-40.9	LT	6	
53+50.07	-34.0	LT	8	
53+50.39	-32.8	LT	6	
53+58.43	-41.7	LT	6	
53+62.63	-44.3	LT	6	
53+72.04	-26.2	LT	6	
54+19.21	-28.2	LT	12	
54+53.08	25.5	RT	8	
54+53.90	25.5	RT	6	
54+54.96	24.8	RT	8	
54+56.31	-28.7	LT	15	
54+74.02	-51.2	LT	12	
54+76.12	24.1	RT	8	
54+77.16	22.8	RT	6	
54+81.20	-58.9	LT	14	
55+03.00	-59.5	LT	8	
55+10.82	-34.0	LT	10	
55+11.46	-31.3	LT	6	
55+11.89	-33.0	LT	8	
55+23.97	-26.2	LT		24
55+30.29	24.4	RT	6	
55+31.20	24.0	RT	8	
55+31.53	23.4	RT	6	
55+33.42	-63.7	LT	8	
55+48.57	-64.3	LT	6	
55+54.50	30.6	RT	8	
55+55.07	29.5	RT	8	
55+56.19	-26.1	LT	6	
55+57.05	29.5	RT	6	
55+60.07	-58.2	LT		24
55+77.29	-26.7	LT		24
55+87.41	-64.5	LT	6	
55+88.58	32.9	RT	6	
55+90.79	-63.6	LT	10	
55+95.72	40.8	RT	12	
56+00.27	-67.4	LT	6	
SUB-TOTAL			349	134

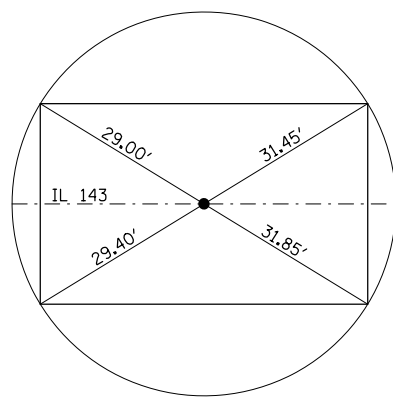
LOCATION		RIGHT OR LEFT	TREE REMOVAL (6 TO 15 UNITS)	TREE REMOVAL (OVER 15 UNITS)
STATION	OFFSET		UNITS	UNITS
56+00.79	-44.2	LT	6	
56+02.72	43.4	RT	8	
56+07.88	-20.5	LT	6	
56+10.32	-45.4	LT		30
56+13.18	-50.9	LT	6	
56+19.24	-57.9	LT	12	
56+19.50	31.7	RT	10	
56+21.36	33.4	RT	10	
56+25.66	-57.5	LT	6	
56+34.29	-52.3	LT		24
56+38.05	-50.6	LT		20
56+53.07	-55.7	LT	8	
56+54.73	35.0	RT	6	
56+56.02	44.0	RT		24
56+60.53	33.9	RT		18
56+68.28	49.2	RT		30
56+73.27	-33.8	LT		24
56+82.67	-31.9	LT	6	
56+84.17	-46.3	LT	6	
56+89.04	-34.2	LT	6	
56+94.89	-34.2	LT		18
57+05.17	-34.0	LT		18
57+08.30	-33.7	LT		18
57+12.17	-33.8	LT		18
57+19.35	-31.3	LT	6	
57+26.35	-34.3	LT	6	
57+29.93	-35.6	LT		24
57+91.76	-28.3	LT		18
58+02.25	-40.9	LT	6	
58+15.14	-30.9	LT	6	
58+28.21	-30.7	LT	10	
58+29.97	-30.1	LT	8	
58+43.08	-34.5	LT		18
58+44.25	-29.9	LT		24
58+47.68	-31.3	LT	10	
58+64.41	-34.9	LT	8	
58+64.68	-25.4	LT	8	
58+77.36	-33.0	LT	10	
58+80.14	-31.6	LT	8	
58+88.68	-30.3	LT		16
58+95.27	-36.1	LT		18
58+99.38	-28.0	LT	12	
59+00.23	-27.6	LT	10	
59+01.39	-27.2	LT	15	
59+03.77	-41.4	LT	12	
59+12.53	-32.3	LT	10	
59+13.79	-36.2	LT		22
59+17.66	-26.6	LT	6	
59+22.68	-29.9	LT	6	
59+23.65	-38.5	LT		18
SUB-TOTAL			253	400

LOCATION		RIGHT OR LEFT	TREE REMOVAL (6 TO 15 UNITS)	TREE REMOVAL (OVER 15 UNITS)
STATION	OFFSET		UNITS	UNITS
59+30.55	-27.6	LT	10	
59+31.06	-24.0	LT	6	
59+32.30	-24.8	LT	6	
59+33.60	-30.2	LT	10	
59+36.38	-25.2	LT	8	
59+36.79	-28.3	LT	10	
59+39.71	-24.4	LT	8	
59+40.84	-24.9	LT	8	
59+41.06	-27.7	LT	6	
59+45.00	-26.9	LT	6	
59+48.15	-29.9	LT	10	
59+51.68	-26.8	LT	10	
59+54.48	-23.6	LT	10	
59+55.07	-22.8	LT	6	
59+66.25	-30.7	LT	8	
59+68.69	-31.4	LT	8	
59+69.89	-25.8	LT	8	
59+71.56	-24.8	LT	6	
59+71.95	-26.7	LT	8	
59+72.57	-26.1	LT	8	
59+76.82	-26.5	LT	8	
59+78.26	-24.5	LT		18
59+78.72	-30.8	LT	8	
59+80.14	-25.8	LT	8	
59+80.65	-27.2	LT	6	
59+85.98	-32.3	LT	8	
59+86.03	-24.7	LT	10	
59+89.94	-30.5	LT	8	
59+91.43	-22.8	LT	10	
59+94.77	-31.9	LT	8	
59+97.32	-27.8	LT	8	
59+98.52	-33.7	LT	10	
59+99.42	-24.6	LT	8	
60+01.01	-27.9	LT	8	
60+02.92	-28.6	LT	6	
60+06.27	-26.9	LT	6	
60+07.49	-27.6	LT	8	
60+09.36	-23.3	LT	8	
60+09.98	-28.3	LT	6	
60+10.86	-27.9	LT	8	
60+15.25	-30.1	LT	8	
60+20.01	-24.0	LT	10	
60+20.94	-24.3	LT	8	
60+21.20	-23.0	LT	10	
60+26.29	-26.0	LT	8	
60+28.37	-34.4	LT	10	
60+29.77	-25.0	LT	6	
60+31.01	-32.5	LT	8	
60+32.20	-25.9	LT	6	
60+35.20	-31.5	LT	8	
SUB-TOTAL			392	18

LOCATION		RIGHT OR LEFT	TREE REMOVAL (6 TO 15 UNITS)	TREE REMOVAL (OVER 15 UNITS)
STATION	OFFSET		UNITS	UNITS
60+35.51	-24.4	LT	6	
60+37.79	-30.0	LT	6	
60+38.17	-23.4	LT	8	
60+38.81	-32.2	LT	8	
60+40.14	-26.1	LT	6	
60+43.37	-25.7	LT	6	
60+43.62	-27.7	LT	8	
60+45.12	-33.9	LT	8	
60+45.24	-30.5	LT	8	
60+46.19	-31.4	LT	8	
60+48.81	-26.0	LT	12	
60+48.98	-24.8	LT	6	
60+50.61	-36.0	LT	10	
60+50.79	-35.3	LT	8	
60+57.53	-28.5	LT	10	
60+60.77	-29.7	LT	8	
60+61.32	-29.4	LT	8	
60+61.98	-36.4	LT	8	
60+71.90	-32.0	LT	6	
60+72.58	-32.6	LT	8	
60+74.21	-31.8	LT	12	
60+74.34	-23.3	LT	12	
60+75.29	-31.2	LT	10	
60+82.02	-24.0	LT	6	
60+82.16	-24.6	LT	8	
60+82.73	-31.4	LT	6	
60+82.75	-28.3	LT	6	
60+83.00	-28.8	LT	10	
60+87.92	-23.2	LT	8	
60+88.06	-30.3	LT	6	
60+88.39	-22.2	LT	8	
60+88.96	-29.6	LT	6	
60+98.12	-27.5	LT	12	
60+98.18	-26.3	LT	6	
60+99.19	-27.5	LT	6	
61+01.82	-33.9	LT		24
61+04.68	-26.2	LT	8	
61+05.02	-24.1	LT	6	
61+05.39	-32.3	LT	6	
61+07.07	-26.8	LT	8	
61+07.86	-28.7	LT	6	
61+07.99	-27.9	LT	8	
61+14.88	-26.6	LT	8	
61+20.46	-30.3	LT	6	
SUB-TOTAL			334	24
TOTAL			1328	576
ADD 10% FOR GROWTH			132	54
GRAND TOTAL			1460	630

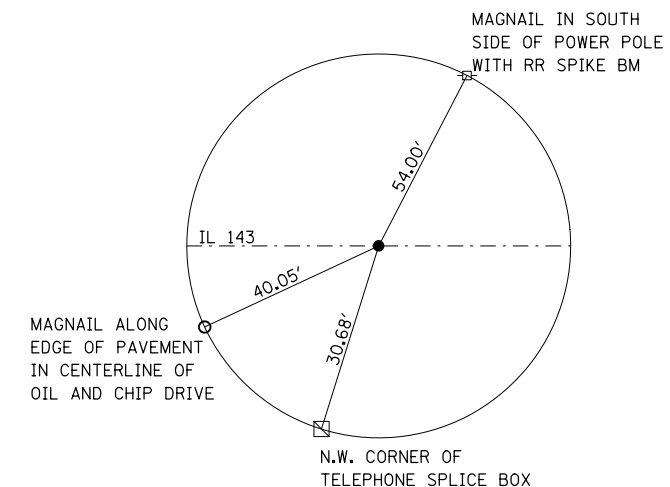


TIE POINT
MAGNAIL
STATION 51+06.56



ALL TIES ARE FROM MAGNAILS
SET NEAR CORNERS OF BRIDGE DECK

TIE POINT
MAGNAIL SET AT CENTERLINE OF PAVEMENT
AND CENTER OF STRUCTURE
STATION 56+45.00



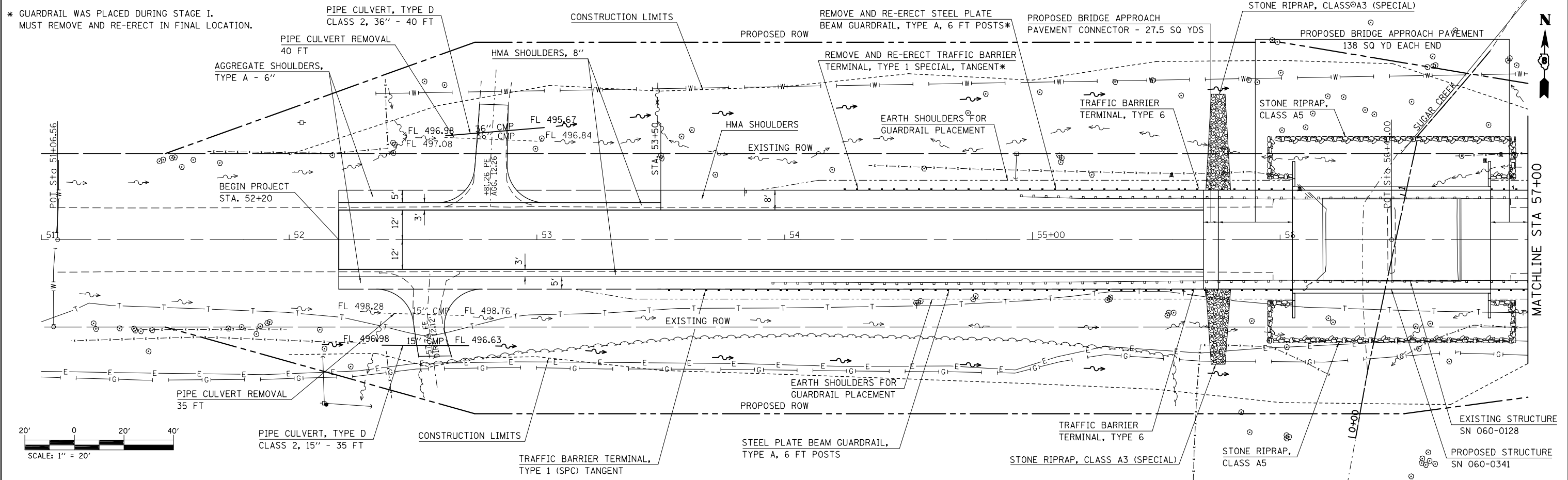
TIE POINT
MAGNAIL
STATION 61+80.83

BENCHMARKS

- BM 100 - RR SPIKE SET IN POWER POLE
P25B3 ON NORTH SIDE OF ROAD,
NE OF MAIL BOX #14056,
IL 143 ± 550 FT EAST OF BRIDGE
STATION: 62+20
ELEVATION: 518.077
- BM 101 - RR SPIKE SET IN POWER POLE
P25B6 ON NORTH SIDE OF ROAD,
± 27 FEET BEHIND GUARDRAIL,
± 100 FEET FROM NE CORNER
OF BRIDGE
STATION: 57+84
OFFSET 45' LEFT
ELEVATION: 501.553
- BM 102 - RR SPIKE SET IN POWER POLE
P25B7 ON NORTH SIDE OF ROAD
± 15.7 FEET BEHIND GUARDRAIL,
± 100 FEET FROM NW CORNER
OF BRIDGE
STATION: 54+94
OFFSET 35' LEFT
ELEVATION: 501.023

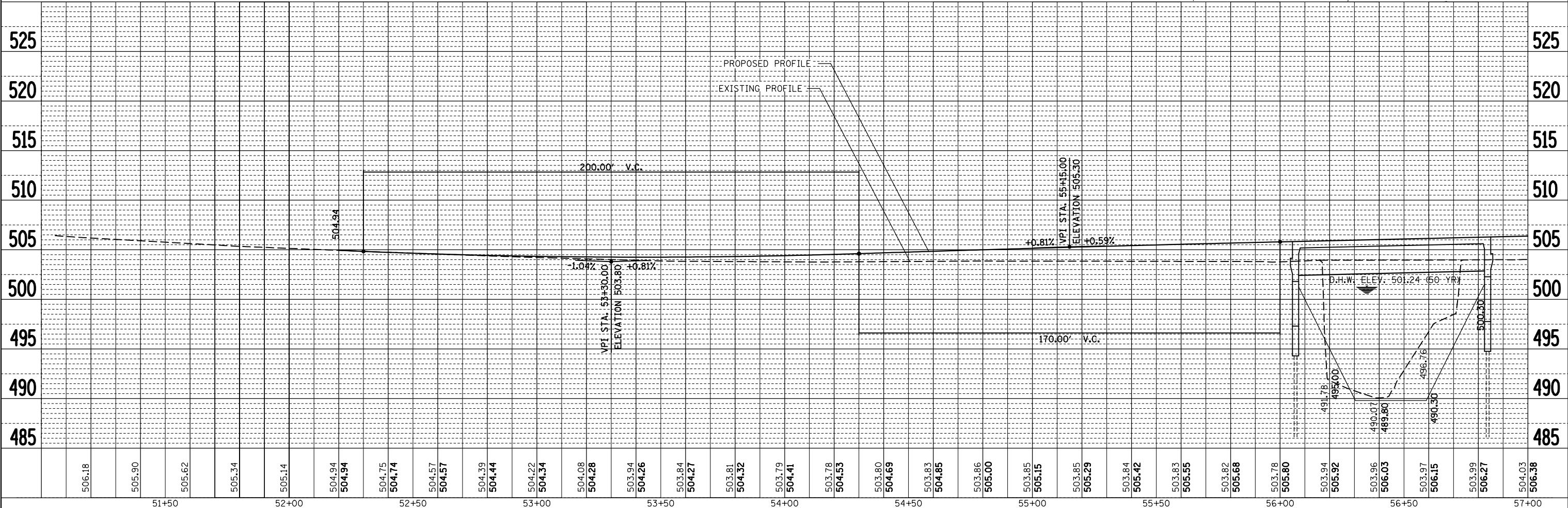
ALL TIES ARE DIRECT/SLOPE DISTANCES

FILE NAME =	USER NAME = gelnh	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIE POINTS AND BENCHMARKS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\gelnh\dms69644\pin0007a.dgn	DRAWN -	REVISED -	793					40BR-1	MADISON	72	10	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 76A36									
PLOT DATE = 9/10/2012	DATE -	REVISED -	SCALE:		SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

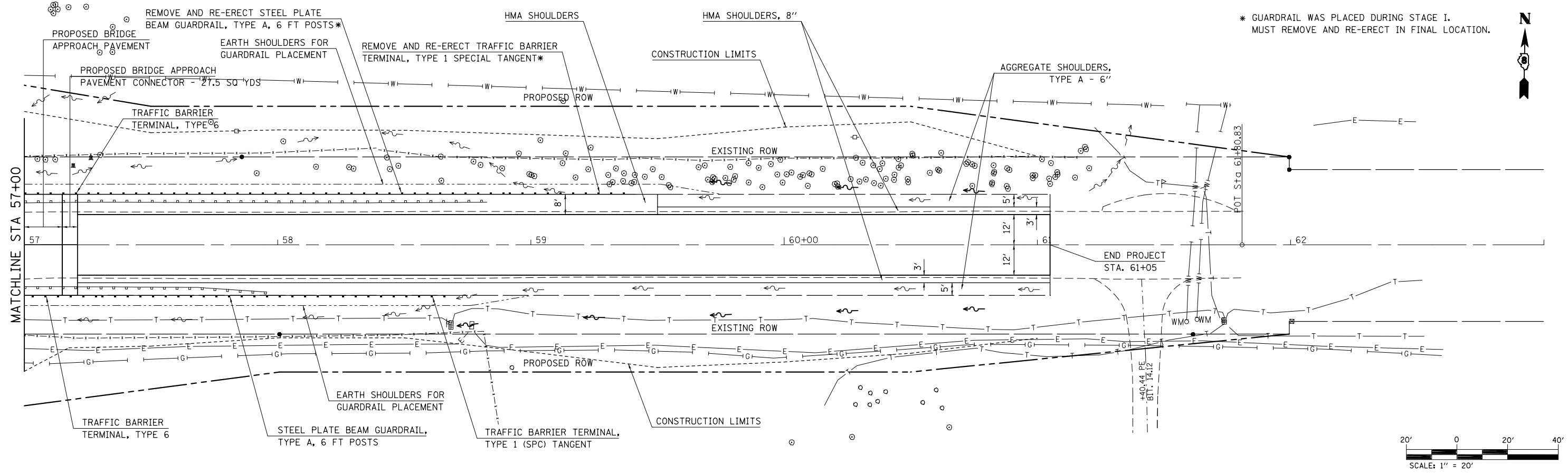
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	



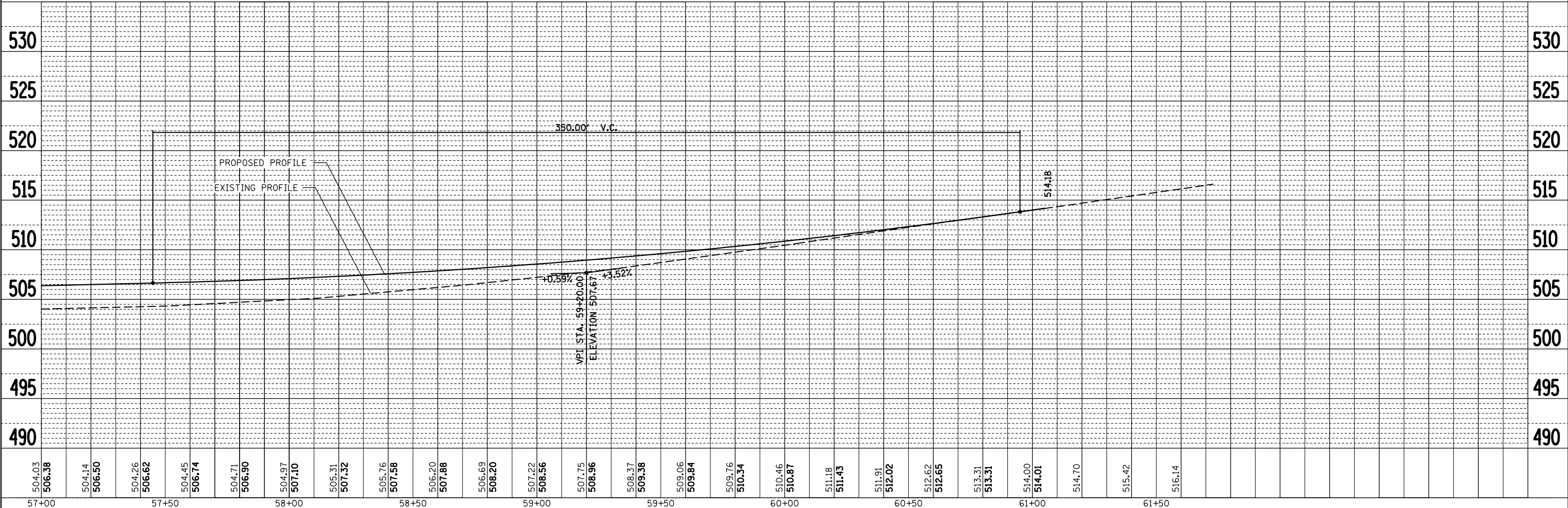
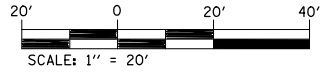
FILE NAME =	USER NAME = #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE SHEET			F.A.P. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN -	REVISED -					793	40 BR-1	MADISON	72	11
		CHECKED -	REVISED -		CONTRACT NO. 76A36							
		DATE -	REVISED -		SCALE: 20	SHEET NO.	OF SHEETS	STA. 51+00 TO STA. 57+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
NOTE BOOK NO.	CARD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	NOTATION CHIP NO.	



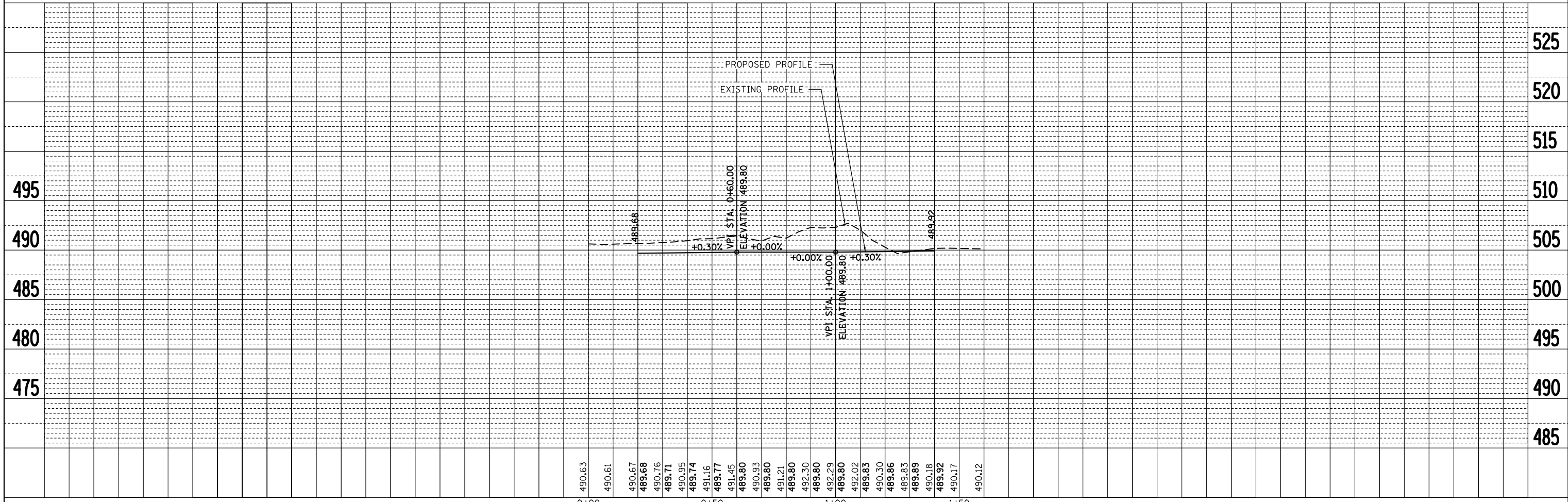
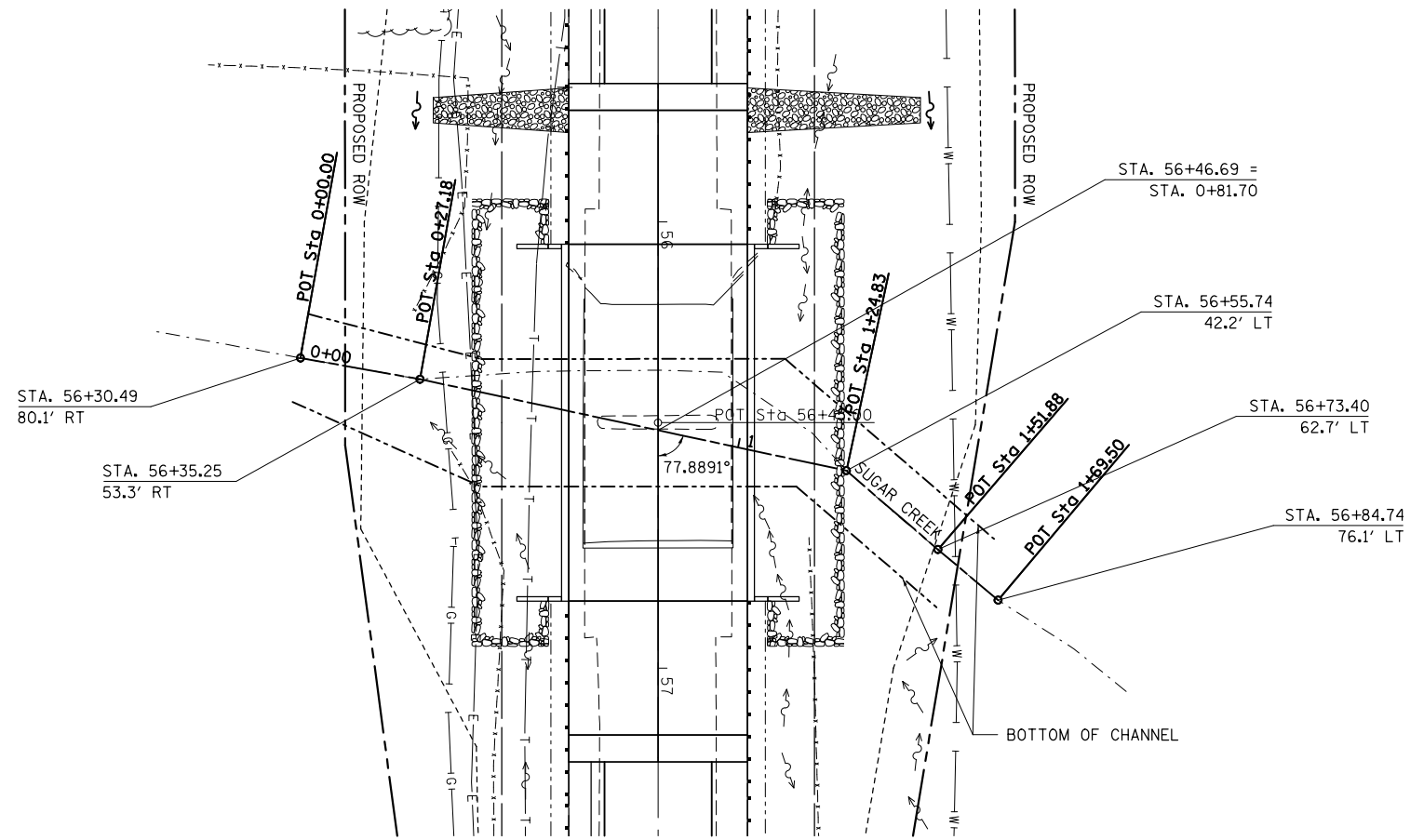
* GUARDRAIL WAS PLACED DURING STAGE I. MUST REMOVE AND RE-ERECT IN FINAL LOCATION.



FILE NAME =	USER NAME = #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE SHEET			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -					793	40 BR-1	MADISON	72	12
		CHECKED -	REVISED -		CONTRACT NO. 76A36							
		DATE -	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT						

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNMENT CHECKED	
	FIELD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CHECKED	



FILE NAME =	USER NAME = gelnh	DESIGNED -	REVISED -
c:\pwork\pwork\gelnh\dms69644\p1n0090	a.dgn	DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/10/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CHANNEL PLAN AND PROFILE

SCALE: 20 SHEET NO. OF SHEETS STA. 51+00 TO STA. 57+00

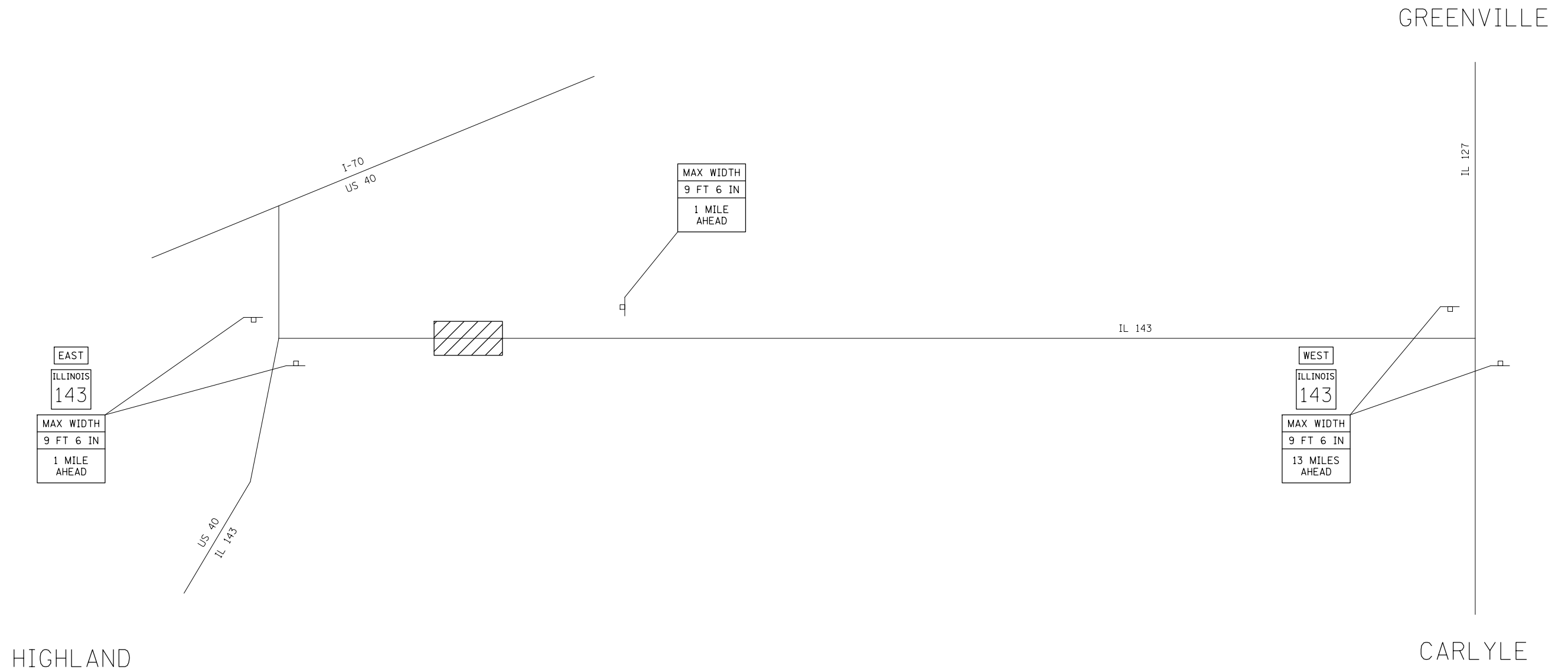
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40 BR-1	MADISON	72	13
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

NOTES

- ① ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
- ② THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- ③ THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE (618) 346-3289.
- ④ SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
- ⑤ THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL BE NOT LESS THAN 6'.
- ⑥ THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.

SIGNS REQUIRED

ILLINOIS 143 (4)	EAST (2)	WEST (2)
MAX WIDTH 9 FT 6 IN 13 MILES AHEAD (2)		MAX WIDTH 9 FT 6 IN 1 MILE AHEAD (3)



NOT TO SCALE

FILE NAME =	USER NAME = gelnh	DESIGNED -	REVISED -
et:\pw\work\p\dot\gelnh\dms69644\pin0007a.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/10/2012	DATE -	REVISED -






**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

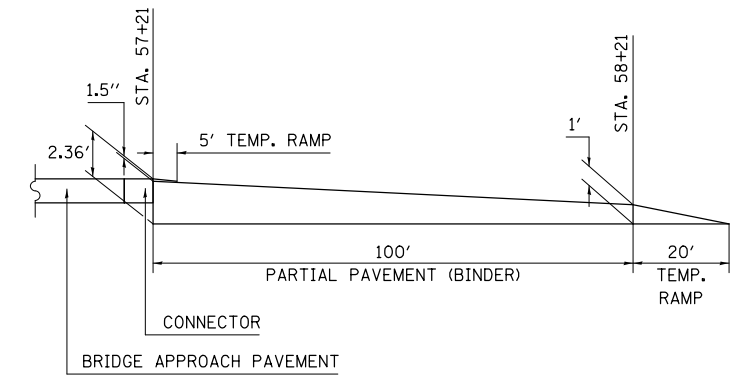
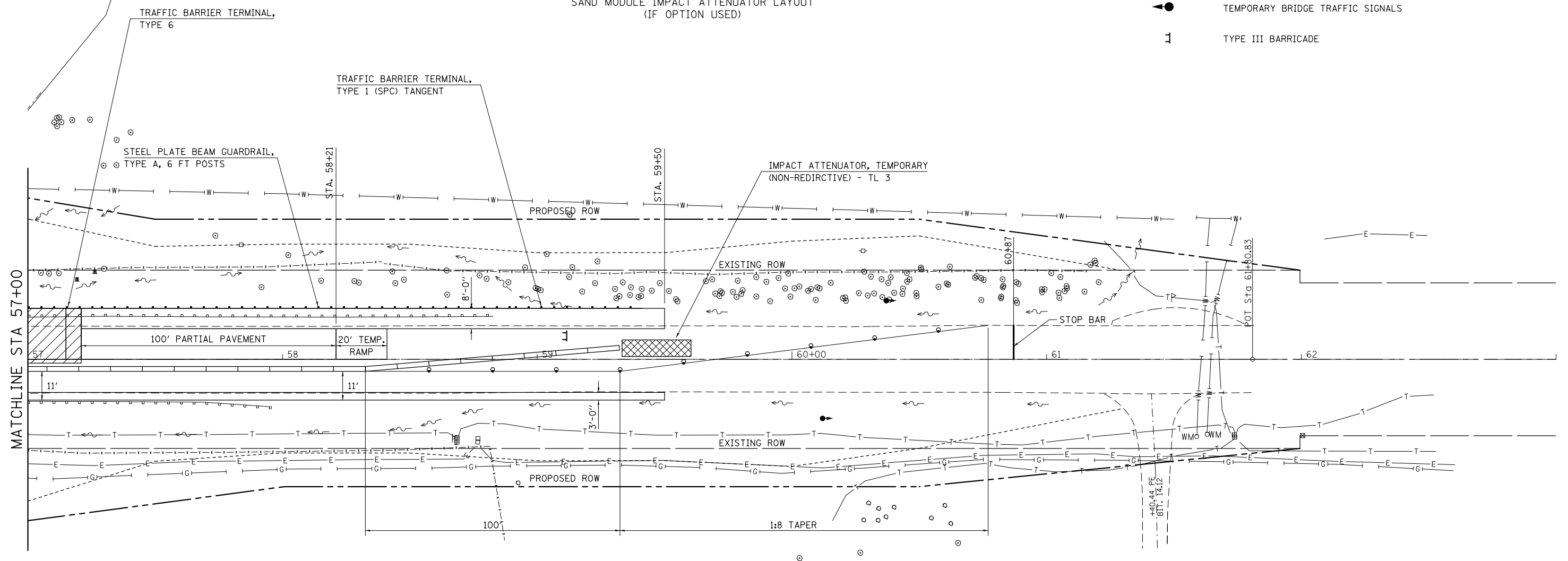
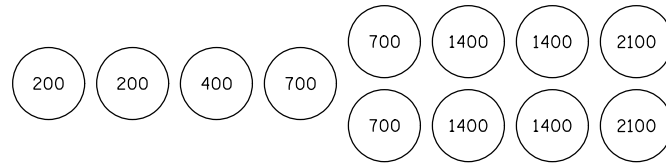
WIDE LOAD SIGNING PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

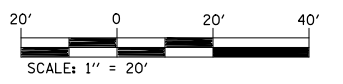
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	14
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE








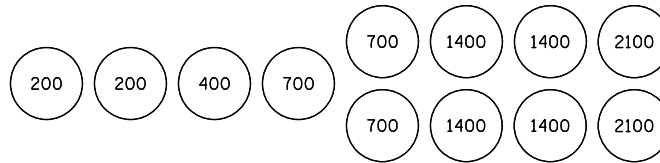
PARTIAL PAVEMENT DETAIL



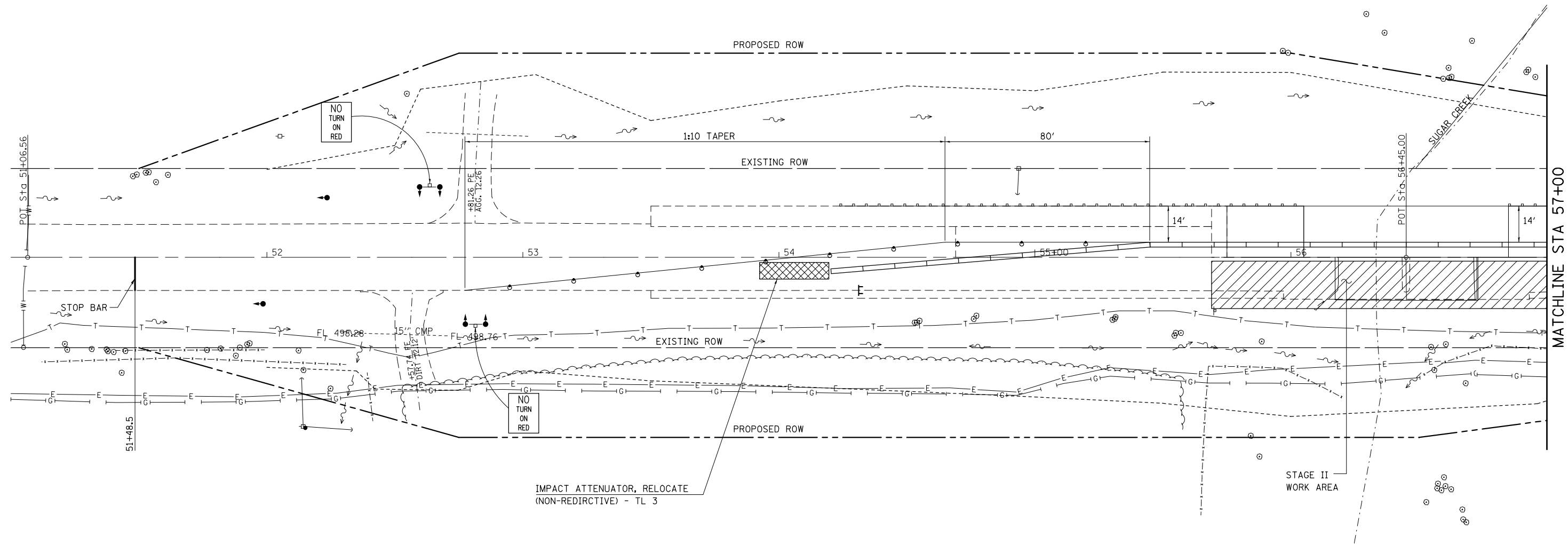
FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I CONSTRUCTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -		SCALE:	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.	793	40BR-1	MADISON	72	16
		PLOT SCALE = *SCALE*	CHECKED -					CONTRACT NO. 76A36					
		PLOT DATE = *DATE*	DATE -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



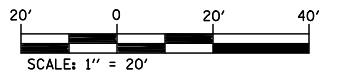
SAND MODULE IMPACT ATTENUATOR LAYOUT
(IF OPTION USED)



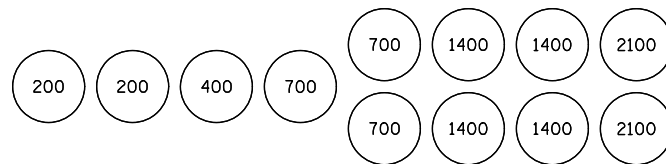
SEQUENCE OF CONSTRUCTION - STAGE II:

RELOCATE 450 FT OF TEMPORARY CONCRETE BARRIER AND RELOCATE 2 EACH IMPACT ATTENUATORS.

SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.



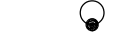




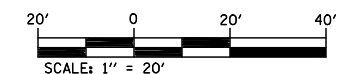
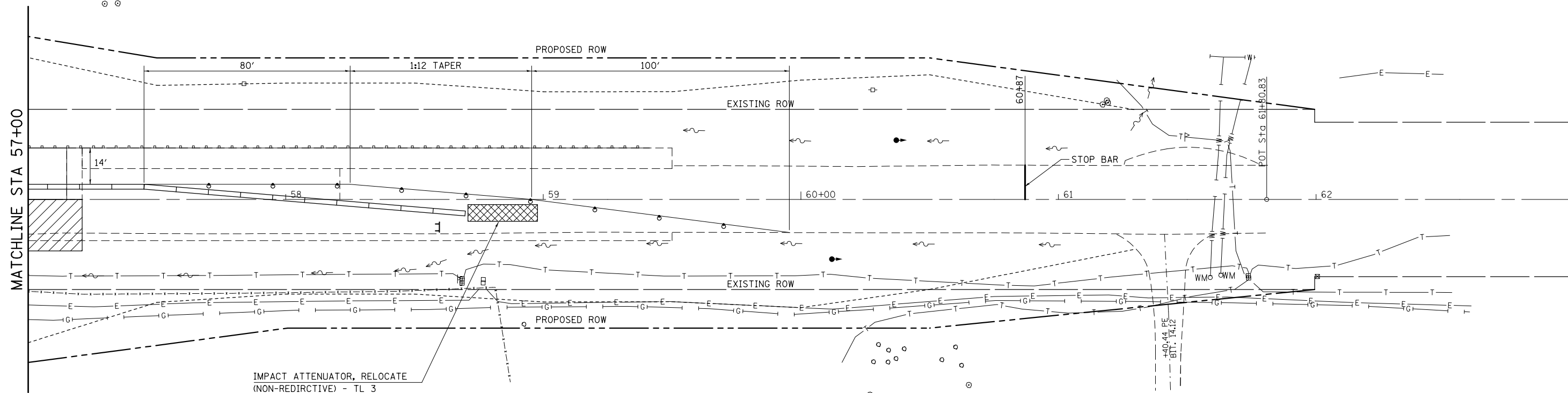
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	PLOT SCALE = *SCALE*	CHECKED -	REVISED -		SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.	CONTRACT NO. 76A36			
	PLOT DATE = *DATE*	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



SAND MODULE IMPACT ATTENUATOR LAYOUT
(IF OPTION USED)

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



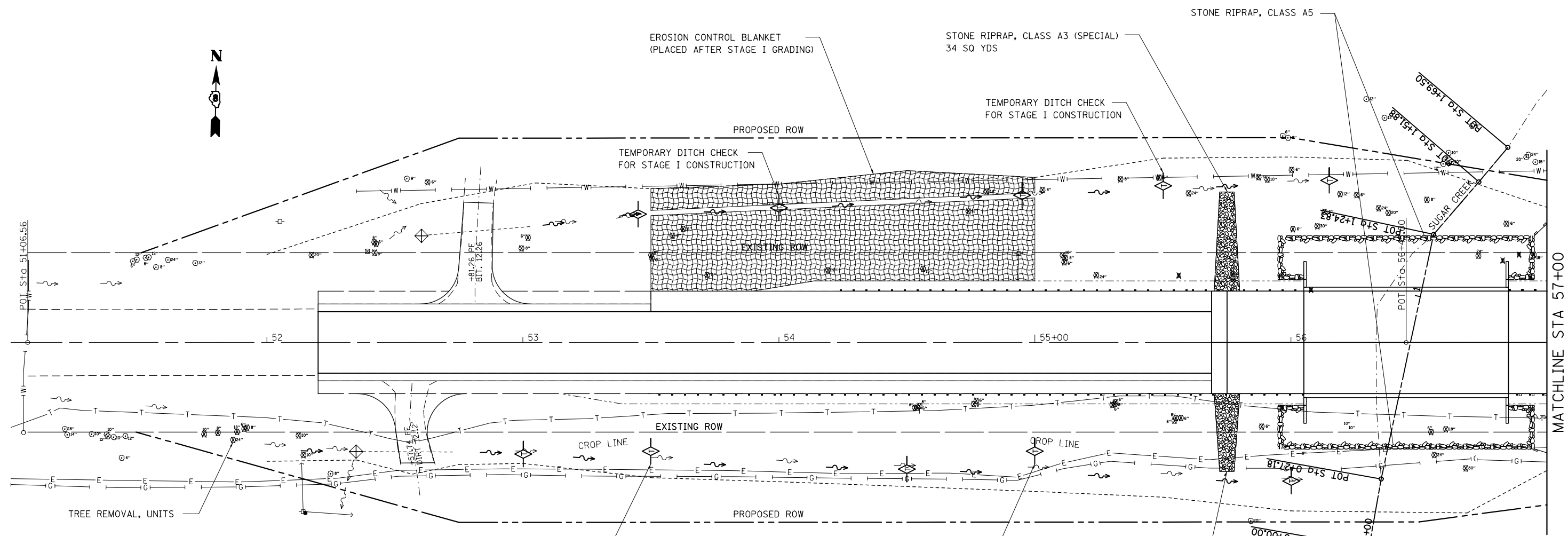
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	PLOT DATE = #DATE*	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II CONSTRUCTION

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	18
CONTRACT NO. 76A36				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



EROSION CONTROL SCHEDULE

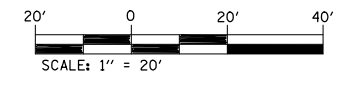
LOCATION	RIGHT OR LEFT	TEMPORARY DITCH CHECK		INLET AND PIPE PROTECTION
		STAGE I EACH	FINAL EACH	
STA 52+35	43' RT			1
STA 52+60	42' LT			1
STA 53+00	44' RT		1	
STA 53+45	50' LT		1	
STA 53+50	42' RT	1		
STA 54+00	51' LT	1		
STA 54+50	50' RT		1	
STA 54+95	57' LT		1	
STA 55+00	42' RT	1		
STA 55+50	61' LT	1		
STA 56+00	54' RT		1	
STA 56+15	63' LT		1	
STA 58+50	33' RT		1	
STA 58+90	30' RT		1	
STA 59+30	28' RT		1	
STA 59+50	27' LT		1	
STA 59+70	27' RT		1	
STA 60+00	23' LT		1	
STA 60+10	26' RT		1	
STA 60+50	25' RT		1	
STA 60+50	23' LT		1	
SUB-TOTAL		4	15	
TOTAL			19	2

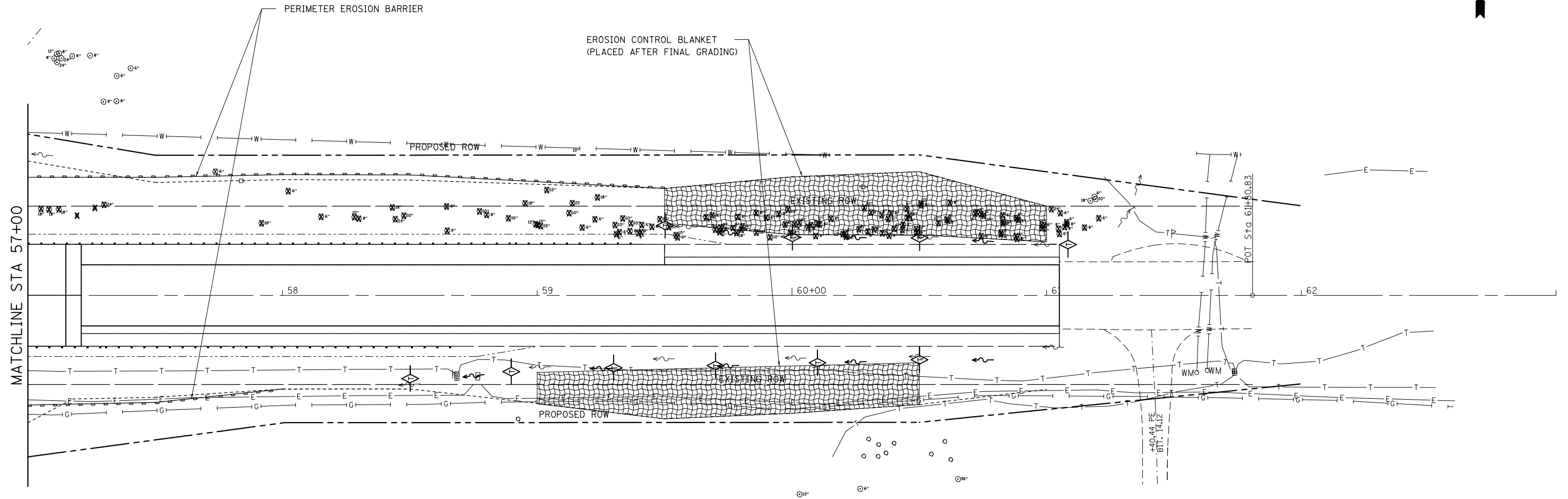
EROSION CONTROL SCHEDULE

LOCATION	RIGHT OR LEFT	PERIMETER EROSION BARRIER FOOT	EROSION CONTROL BLANKET SQ YD
STA 53+50 TO STA 55+00	LT		733
STA 55+95 TO STA 58+00	RT	105	
STA 55+95 TO STA 59+50	LT	260	
STA 59+00 TO STA 60+50	RT		316
STA 475+82 TO STA 61+00	LT		341
TOTAL		365	1390





LEGEND

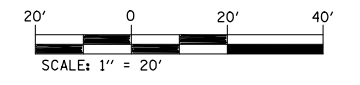
- TEMPORARY DITCH CHECK- ROLLED EXCELSIOR, SILT WEDGES/PANELS
- EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER- SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
- INLET AND PIPE PROTECTION- STRAW BALES, FILTER FABRIC, AGGREGATES





LEGEND

-  TEMPORARY DITCH CHECK- ROLLED EXCELSIOR, SILT WEDGES/PANELS
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER- SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
-  INLET AND PIPE PROTECTION- STRAW BALES, FILTER FABRIC, AGGREGATES



FILE NAME =	USER NAME = gelnh	DESIGNED -	REVISED -
et:\pw\work\p\dot\gelnh\dms69644\pin0007a.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/10/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: SHEET NO. OF SHEETS STA. 57+00 TO STA. 63+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	20
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

TELEPHONE SPLICE BOX ABOVE GROUND		DRAINAGE FLOW LINE	
UTILITY POWER POLE		RIP RAP	
TELEPHONE POLE		HEADWALL	
UTILITY TRAFFIC SIGNAL		CULVERT END SECTION	
UTILITY LIGHT POLE		DRAINAGE MANHOLE	
FIRE HYDRANT		INLET	
UTILITY MANHOLE		ROADWAY DITCH FLOW	
UTILITY TELEPHONE POLE		VEGETATION LINE	
UTILITY GUY POLE		STUMP	
PIPELINE WARNING SIGN		SHRUB	
UTILITY HANDHOLE		EVERGREEN TREE	
UTILITY SPLICE ABOVE GROUND		DECIDUOUS TREE	
UTILITY JUNCTION BOX		WOODS/BUSH PATTERN	
UTILITY HEAVY DUTY HANDHOLE		TRAFFIC SIGN	
UTILITY DOUBLE HANDHOLE		GAURDRAIL POST	
UTILITY CONTROLLER		GAURDRAIL PATTERN	
UTILITY WATER METER		FIELD LINE	
		LEVEE/NOISE BARRIER	
		FENCE PATTERN	
		MAIL BOX	
		ADVERTISING SIGN	
		MARSH	
		EXISTING CREEK OR DITCH	
		EXISTING EDGE OF PAVEMENT	

RIGHT OF WAY LEGEND

	SECTION CORNERS		QUARTER SECTION CORNERS
	EXISTING CENTERLINE PAVEMENT		EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE		PROPOSED PERMANENT EASEMENT LINE
	SECTION LINE		QUARTER SECTION LINE
	PROPERTY (DEED) LINE		APPARENT PROPERTY LINE
	MEASURED DIMENSION		RECORDED DIMENSION
	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED		SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
	IDOT SURVEY CONTROL UNLESS OTHERWISE NOTED		SAME OWNERSHIP
	PK NAIL FOUND, SET BY OTHERS		CONCRETE MONUMENT FOUND
	STAKING OF PROPOSED RIGHT OF WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER. (PROPOSED RIGHT OF WAY CORNERS SET IN CULTIVATED AREAS SHALL BE A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE).		EXISTING BUILDING

LEGEND FOR ABBREVIATIONS

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
CL	CENTERLINE
CH	COUNTY HIGHWAY
Ch	CHAIN
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAUS	FEDERAL AID URBAN SECONDARY
FND	FOUND
ha	HECTARE
IPF	IRON PIPE FOUND
IRF	IRON ROD FOUND
LT	LEFT
m	METER
m ²	SQUARE METERS
N	NORTH
N & BC	NA:L AND BOTTLE CAP
N & C	NA:L AND CAP
N & W	NA:L AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT OF TANGENT
PL	PROPERTY LINE
PR	PROPOSED
RD	ROAD
ROW	RIGHT OF WAY
RR	RA:LRoad
RRS	RA:LRoad SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
TWP	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST

SPACE RESERVED FOR RECORDING OFFICER

PROPOSED PARCEL NUMBER LEGEND

8001001	PROPOSED FEE SIMPLE ACQUISITION
8001001PE	PROPOSED PERMANENT EASEMENT
8001001TE	PROPOSED TEMPORARY EASEMENT
8001001DED	PROPOSED DEDICATION
8001001AC	PROPOSED ACCESS CONTROL LINE

CURVE ABBREVIATIONS

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
CB	CHORD BEARING
R	RADIUS OF CURVE
L	CURVE LENGTH
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
e	EXTERNAL
Δ	CENTRAL ANGLE

EXISTING R.O.W. RECORDED INFORMATION		
PARCEL	BOOK/PAGE	DATE RECORDED
8823021	566/440	2-19-1934
8823022	566/440	2-19-1934
8823023	566/440	2-19-1934
8823024	566/440	2-19-1934
8823025	566/440	2-19-1934
8823026	702/309	2-19-1934
8823027	566/434	8-19-1925
8823028	566/434	8-19-1925

PREPARED BY:

ASSOCIATED PROFESSIONALS, INC.

17625 Mockingbird Road, P.O. Box 311
Nashville, Illinois 62263
Ph. 618-478-9000 Fax 618-478-9001
e-mail: api@apisurvey.com
IDPR Design Firm License No. 184-001303



Gary S. Mueller 12/10/08

GARY S. MUELLER, IPLS # 3332
EXPIRATION DATE: 11-30-2010

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

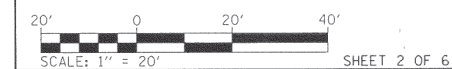
THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED TO THE SURVEYOR BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE SURVEYOR VISUALLY FIELD VERIFIED THE EXISTENCE OF THE TOPOGRAPHY SHOWN HEREON. IN ADDITION THE SURVEYOR PHYSICALLY LOCATED IN THE FIELD THE FOLLOWING ITEMS ON 5/29/08:

1. RESIDENTIAL HOME PARCEL 8823028
- 2.
- 3.

BASIS OF COORDINATE & BEARING STATEMENT

COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PART OF HIGHWAYS
FAP ROUTE 793 (IL 143)
SECTION 40BR-1
MADISON COUNTY
JOB NO. R-98-023-08



ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINGSVILLE, ILLINOIS 62234-6198				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	21
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

PART OF THE E 1/2 OF SECTION 23, T4N, R5W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

I.D.O.T. PROVIDED CONTROL & ALIGNMENT				
POINT*/DESC.	STATION	OFFSET	NORTH	EAST
1	52+66.41	18.10' LT	769,856.9590	453,455.4730
2	55+98.92	19.20' RT	769,824.9100	453,788.5320
3	61+25.95	20.58' RT	769,831.8340	454,315.5160
POT	51+06.56		769,836.3400	453,295.9300
POT	56+45.00		769,844.8306	453,834.3035
POT	61+80.83		769,853.2800	454,370.0700

COORDINATE TABLE				
DESCRIPTION	STATION	OFFSET	NORTH	EAST
IRON ROD W/CAP FOUND	52+39.32	35.60'LT	769,874.0300	453,428.1170
IPF	52+16.33	1330.70'LT	771,168.6046	453,384.7047
IPF	52+39.57	34.91'LT	769,873.3410	453,428.3730
PROP. R.O.W. IR SET	51+50	34.69'LT	769,871.7063	453,338.8176
PROP. R.O.W. IR SET	52+39	66.77'LT	769,905.1909	453,427.2992
PROP. R.O.W. IR SET	52+75	79.75'LT	769,918.7360	453,463.0915
PROP. R.O.W. IR SET	51+50	35.31'RT	769,801.7150	453,339.9215
PROP. R.O.W. IR SET	52+41.29	60.83'RT	769,777.6428	453,431.6045
PROP. R.O.W. IR SET	52+75	70.25'RT	769,768.7546	453,465.4568
IRON ROD SET	52+40.22	1.34'RT	769,837.1085	453,429.5945
IRF CENTER SECTION 23			769,794.1950	450,777.5430
STONE FOUND SW CORNER SECTION 24			767,188.1160	453,519.1320

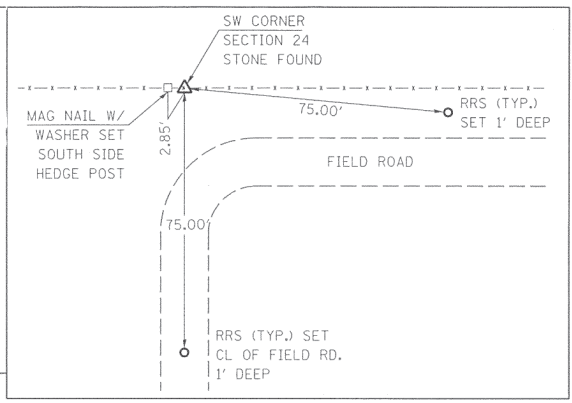
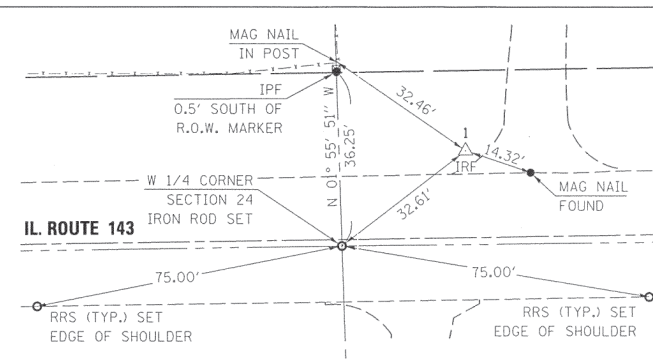
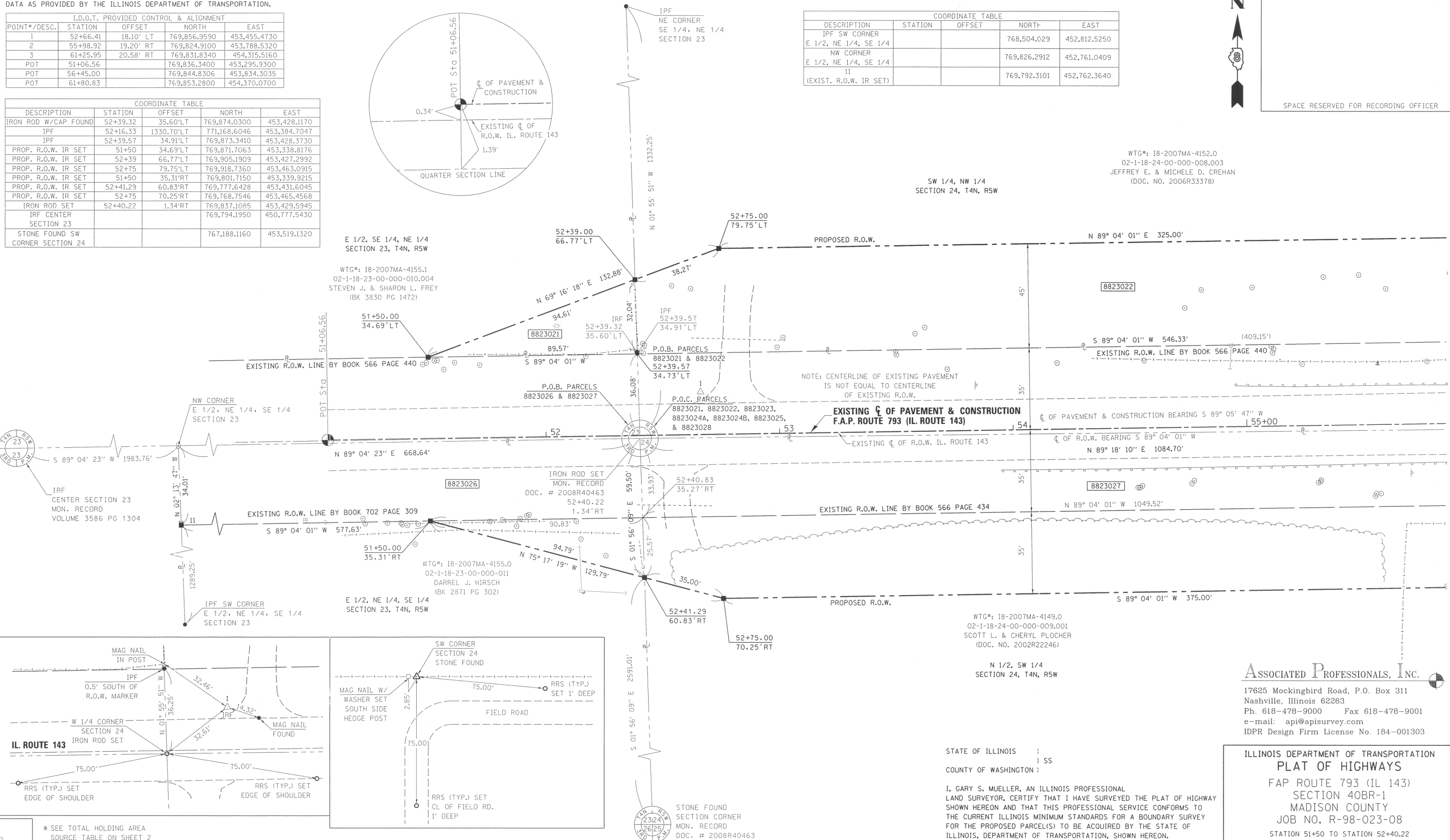
COORDINATE TABLE				
DESCRIPTION	STATION	OFFSET	NORTH	EAST
IPF SW CORNER			768,504.029	452,812.5250
E 1/2, NE 1/4, SE 1/4				
NW CORNER			769,826.2912	452,761.0409
E 1/2, NE 1/4, SE 1/4				
11			769,792.3101	452,762.3640
(EXIST. R.O.W. IR SET)				



SPACE RESERVED FOR RECORDING OFFICER

WTG#: 18-2007MA-4152.0
02-1-18-24-00-000-008.003
JEFFREY E. & MICHELE D. CREHAN
(DOC. NO. 2006R33378)

SW 1/4, NW 1/4
SECTION 24, T4N, R5W



WTG#: 18-2007MA-4149.0
02-1-18-24-00-000-009.001
SCOTT L. & CHERYL PLOCHER
(DOC. NO. 2002R22246)

STATE OF ILLINOIS)
) SS
COUNTY OF WASHINGTON)

I, GARY S. MUELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 12/10/2008
Gary S. Mueller
GARY S. MUELLER, PLS NO. 3332
LICENSE EXPIRATION DATE: 11/30/2010



ASSOCIATED PROFESSIONALS, INC.
17625 Mockingbird Road, P.O. Box 311
Nashville, Illinois 62263
Ph. 618-478-9000 Fax 618-478-9001
e-mail: api@apisurvey.com
IDPR Design Firm License No. 184-001303

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 793 (IL 143)
SECTION 40BR-1
MADISON COUNTY
JOB NO. R-98-023-08
STATION 51+50 TO STATION 52+40.22

SCALE: 1" = 20'

SHEET 3 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	22

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: 6/25/2008 ROW STAKING: 9/25/2008

FED. ROAD DIST. NO. 8 [ILLINOIS] FED. AID PROJECT

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

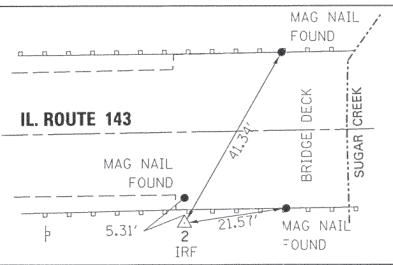
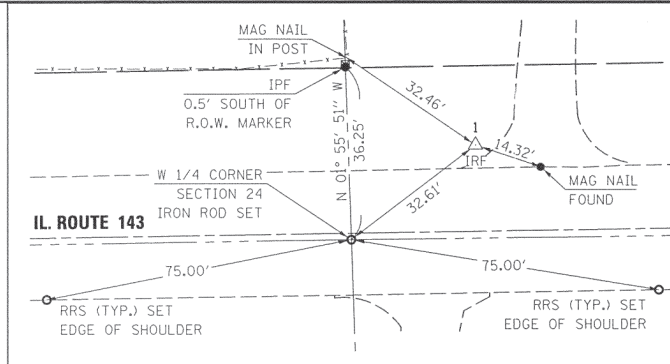
PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION				REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY DOC. NO.	
			GROSS ACRES	SO. FT.	PREVIOUSLY DEDICATED ACRES	SO. FT.				NET ACRES
8823021	STEVEN J. FREY & SHARON L. FREY HUSBAND & WIFE, AS JOINT TENANTS TITLE REPORT NO. 18-2007MA-4155.1	10.5461	0.0329	1,434	N/A	N/A	0.0329	1,434	10.5132	02-1-18-23-00-000-010.004
8823026	DARREL J. HIRSCH TITLE REPORT NO. 18-2007MA-4155.0	15.5762	0.5479	23,869	0.5213	22,709	0.0266	1,160	15.0283	02-1-18-23-00-000-011

PART OF THE W 12 OF SECTION 24, T4N, R5W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

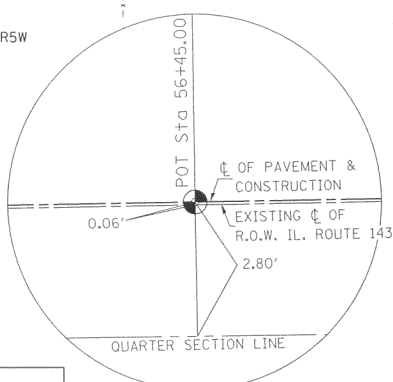
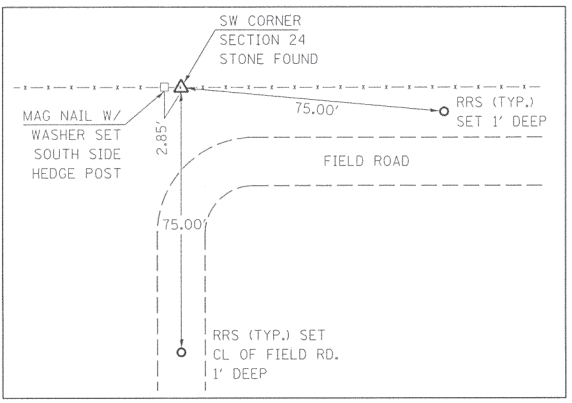
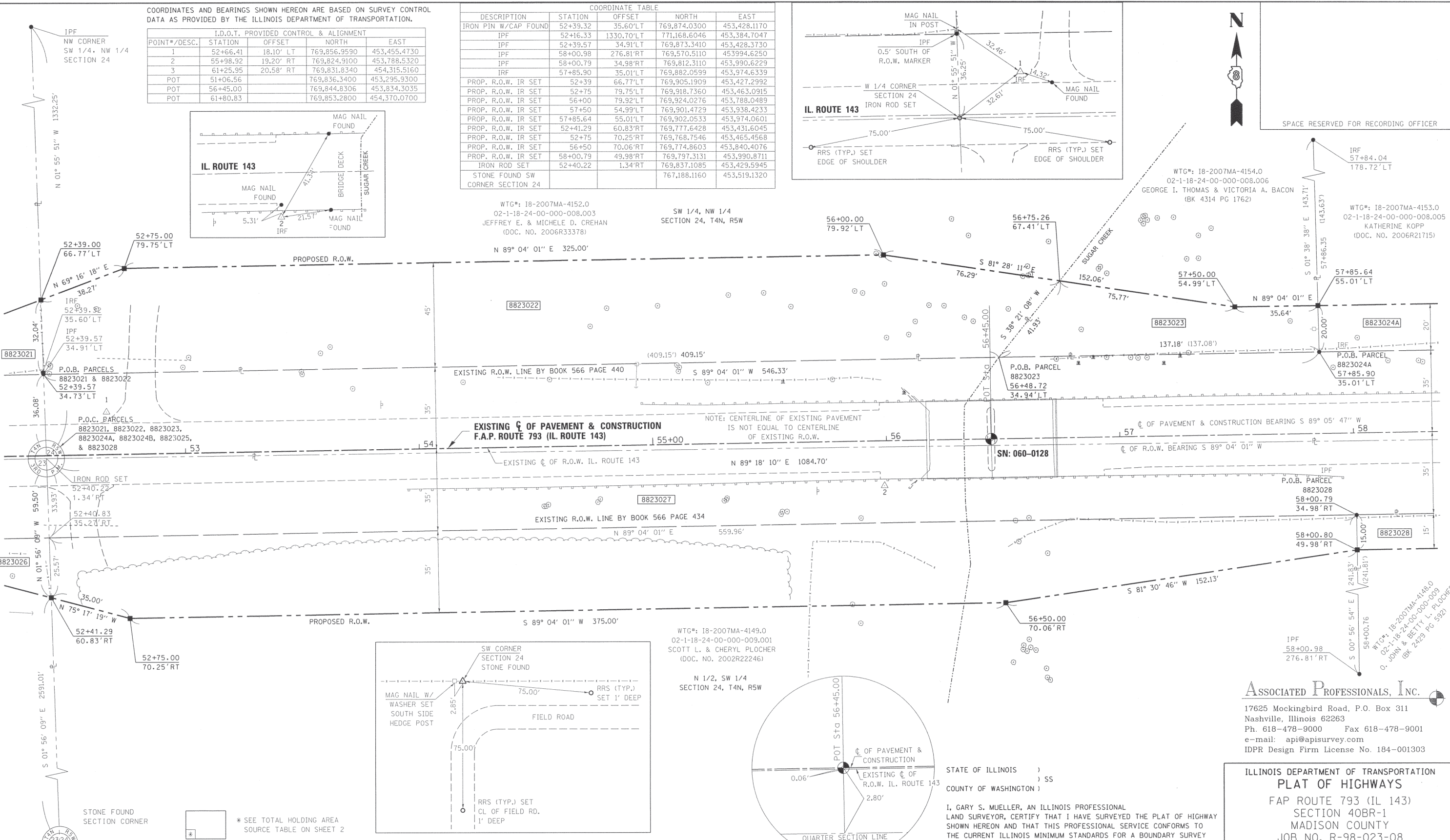
I.D.O.T. PROVIDED CONTROL & ALIGNMENT				
POINT# / DESC.	STATION	OFFSET	NORTH	EAST
1	52+66.41	18.10' LT	769,856.9590	453,455.4730
2	55+98.92	19.20' RT	769,824.9100	453,788.5320
3	61+25.95	20.58' RT	769,831.8340	454,315.5160
POT	51+06.56		769,836.3400	453,295.9300
POT	56+45.00		769,844.8306	453,834.3035
POT	61+80.83		769,853.2800	454,370.0700

COORDINATE TABLE				
DESCRIPTION	STATION	OFFSET	NORTH	EAST
IRON PIN W/CAP FOUND	52+39.32	35.60'LT	769,874.0300	453,428.1170
IPF	52+16.33	1330.70'LT	771,168.6046	453,384.7047
IPF	52+39.57	34.91'LT	769,873.3410	453,428.3730
IPF	58+00.98	276.81'RT	769,570.5110	453,994.6250
IPF	58+00.79	34.98'RT	769,812.3110	453,990.6229
IRF	57+85.90	35.01'LT	769,882.0599	453,974.6339
PROP. R.O.W. IR SET	52+39	66.77'LT	769,905.1909	453,427.2992
PROP. R.O.W. IR SET	52+75	79.75'LT	769,918.7360	453,463.0915
PROP. R.O.W. IR SET	56+00	79.92'LT	769,924.0276	453,788.0489
PROP. R.O.W. IR SET	57+50	54.99'LT	769,901.4729	453,938.4233
PROP. R.O.W. IR SET	57+85.64	55.01'LT	769,902.0533	453,974.0601
PROP. R.O.W. IR SET	52+41.29	60.83'RT	769,777.6428	453,431.6045
PROP. R.O.W. IR SET	52+75	70.25'RT	769,768.7546	453,465.4568
PROP. R.O.W. IR SET	56+50	70.06'RT	769,774.8603	453,840.4076
PROP. R.O.W. IR SET	58+00.79	49.98'RT	769,797.3131	453,990.8711
IRON ROD SET	52+40.22	1.34'RT	769,837.1085	453,429.5945
STONE FOUND SW CORNER SECTION 24			767,188.1160	453,519.1320



WTG#: 18-2007MA-4152.0
02-1-18-24-00-000-008.003
JEFFREY E. & MICHELE D. CREHAN
(DOC. NO. 2006R33378)

SW 1/4, NW 1/4
SECTION 24, T4N, R5W



WTG#: 18-2007MA-4149.0
02-1-18-24-00-000-009.001
SCOTT L. & CHERYL PLOCHER
(DOC. NO. 2002R22246)

N 1/2, SW 1/4
SECTION 24, T4N, R5W

STATE OF ILLINOIS)
) SS
COUNTY OF WASHINGTON)

I, GARY S. MUELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 12/10/2008
Gary S. Mueller
GARY S. MUELLER, PLS NO. 3332
LICENSE EXPIRATION DATE: 11/30/2010



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**ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 793 (IL 143)
SECTION 40BR-1
MADISON COUNTY
JOB NO. R-98-023-08
STATION 52+40.22 TO STATION 58+00.80**

SHEET 4 OF 6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	23

CONTRACT NO. 76A36
FED. ROAD DIST. NO. 8 [ILLINOIS] FED. AID PROJECT

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION				REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY DOC. NO.		
			GROSS ACRES	PREVIOUSLY DEDICATED ACRES	NET ACRES						
8823022	JEFFREY E. & MICHELE D. CREHAN HUSBAND & WIFE, AS JOINT TENANTS TITLE REPORT NO. 18-2007MA-4152.0	25.7400	0.4244	18,486	N/A	N/A	0.4244	18,486	25.3156	02-1-18-24-00-000-008.003	2010R07539
8823023	GEORGE I. THOMAS & VICTORIA A. BACON AS JOINT TENANTS TITLE REPORT NO. 18-2007MA-4154.0	8.4700	0.0713	3,106	N/A	N/A	0.0713	3,106	8.3987	02-1-18-24-00-000-008.006	2010R06394
8823027	SCOTT L. & CHERYL PLOCHER HUSBAND & WIFE, AS JOINT TENANTS TITLE REPORT NO. 18-2007MA-4149.0	78.4866	1.1879	51,744	0.7748	33,751	0.4131	17,993	77.2987	02-1-18-24-00-000-009.001	2009R17150

PART OF THE W 1/2 OF SECTION 24, T4N, R5W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

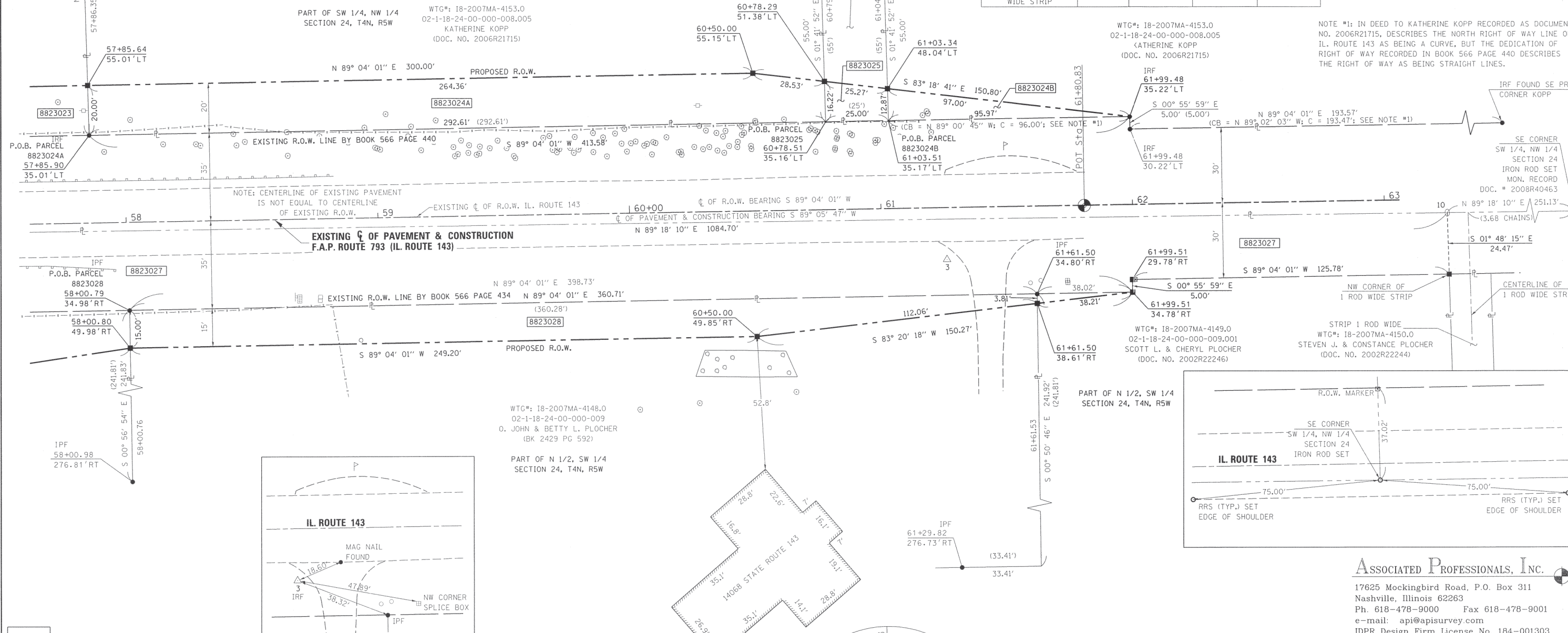
I.D.O.T. PROVIDED CONTROL & ALIGNMENT				
POINT#/DESC.	STATION	OFFSET	NORTH	EAST
1	52+66.41	18.10' LT	769,856.9590	453,455.4730
2	55+98.92	19.20' RT	769,824.9100	453,788.5320
3	61+25.95	20.58' RT	769,831.8340	454,315.5160
POT	51+06.56		769,836.3400	453,295.9300
POT	56+45.00		769,844.8306	453,834.3035
POT	61+80.83		769,853.2800	454,370.0700

COORDINATE TABLE				
DESCRIPTION	STATION	OFFSET	NORTH	EAST
IPF	61+61.50	34.80' RT	769,818.1841	454,351.2866
IPF	61+29.82	276.73' RT	769,575.7830	454,323.4260
IPF	58+00.98	276.81' RT	769,570.5110	453,994.6250
IPF	58+00.79	34.98' RT	769,812.3110	453,990.6229
IRF	57+85.90	35.01' LT	769,882.0599	453,974.6339
IRF	57+84.04	178.72' LT	770,025.7180	453,970.5110
IRF	61+99.48	35.22' LT	769,888.7938	454,388.1600
IRF	61+99.48	30.22' LT	769,883.7945	454,388.2414
PROP. R.O.W. IR SET	57+85.64	55.01' LT	769,902.0533	453,974.0601
PROP. R.O.W. IR SET	60+50	55.15' LT	769,906.3576	454,238.3867

COORDINATE TABLE				
POINT #/DESCRIPTION	STATION	OFFSET	NORTH	EAST
PROP. R.O.W. IR SET	60+78.29	51.38' LT	769,903.0340	454,266.7280
PROP. R.O.W. IR SET	61+03.34	48.04' LT	769,900.0910	454,291.8246
PROP. R.O.W. IR SET	58+00.79	49.98' RT	769,797.3131	453,990.8711
PROP. R.O.W. IR SET	60+50	49.85' RT	769,801.3706	454,240.0424
PROP. R.O.W. IR SET	61+61.50	38.61' RT	769,814.3699	454,351.3430
PROP. R.O.W. IR SET	61+99.51	34.78' RT	769,818.8031	454,389.2998
EXIST. R.O.W. IR SET	61+99.51	29.78' RT	769,823.8024	454,389.2183
IRON ROD SET, SE CORNER SW 1/4, NW 1/4 SECTION 24			769,853.3658	454,765.3279
IRF SE PROP CORNER KOPP			769,886.9461	454,581.7858
IRF			769,850.3095	454,514.2150
IRON ROD SET, NW CORNER OF 1 ROD WIDE STRIP			769,825.8504	454,514.9855



SPACE RESERVED FOR RECORDING OFFICER



NOTE #1: IN DEED TO KATHERINE KOPP RECORDED AS DOCUMENT NO. 2006R21715, DESCRIBES THE NORTH RIGHT OF WAY LINE OF IL. ROUTE 143 AS BEING A CURVE, BUT THE DEDICATION OF RIGHT OF WAY RECORDED IN BOOK 566 PAGE 440 DESCRIBES THE RIGHT OF WAY AS BEING STRAIGHT LINES.

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION				REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY DOC. NO.		
			GROSS		PREVIOUSLY DEDICATED					NET	
			ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES		
8823024	KATHERINE KOPP TITLE REPORT NO. 18-2007MA-4153.0	2.0004	A 0.1331 B 0.0142	A 5,798 B 617	N/A	N/A	A 0.1331 B 0.0142	A 5,798 B 617	1.8531	02-1-18-23-00-000-010.004	2010R07594
8823025	VILLAGE OF PIERRON TITLE REPORT NO. 18-2007MA-4151.0	0.0316	0.0083	363	N/A	N/A	0.0083	363	0.0233	02-1-18-24-00-000-008.001	2009R21849
8823027	SCOTT L. & CHERYL PLOCHER HUSBAND & WIFE, AS JOINT TENANTS TITLE REPORT NO. 18-2007MA-4149.0	78.4866	1.1879	51,744	0.7748	33,751	0.4131	17,993	77.2987	02-1-18-24-00-000-009.001	2009R17150
8823028	O. JOHN PLOCHER & BETTY L. PLOCHER, HIS WIFE, AS TENANTS IN COMMON TITLE REPORT NO. 18-2007MA-4148.0	2.0017	0.1099	4,786	N/A	N/A	0.1099	4,786	1.8918	02-1-18-24-00-000-009	2009R17151

STATE OF ILLINOIS)
) SS
COUNTY OF WASHINGTON)

I, GARY S. MUELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 12/10/2008
Gary S. Mueller
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LICENSE EXPIRATION DATE: 11/30/2010



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**ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS**

F.A.P. ROUTE 793 (IL 143)
SECTION 40BR-1
MADISON COUNTY
JOB NO. R-98-023-08
STATION 58+00.80 TO STATION 62+00

SHEET 5 OF 6

SCALE: 1" = 20'

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	24

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: 6/25/2008 ROW STAKING: 9/25/2008

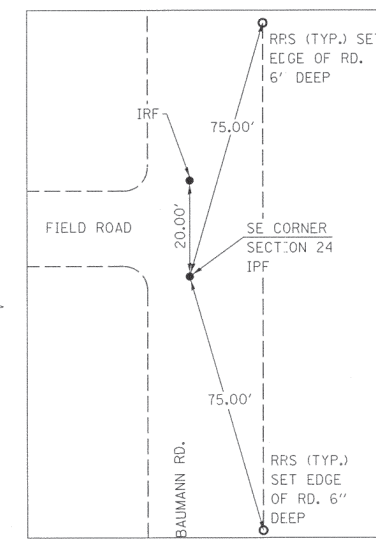
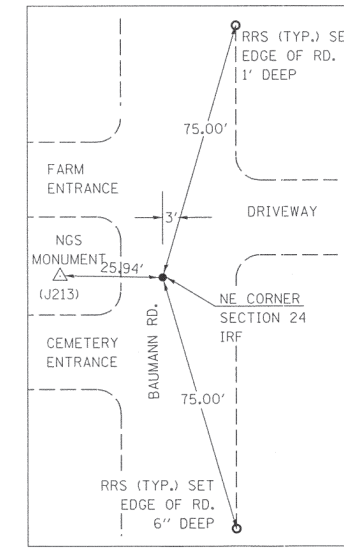
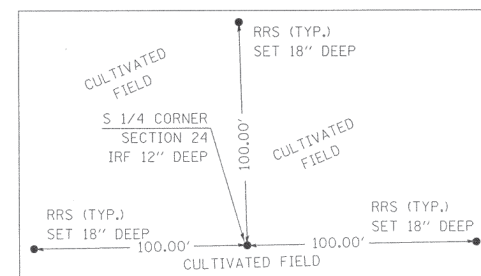
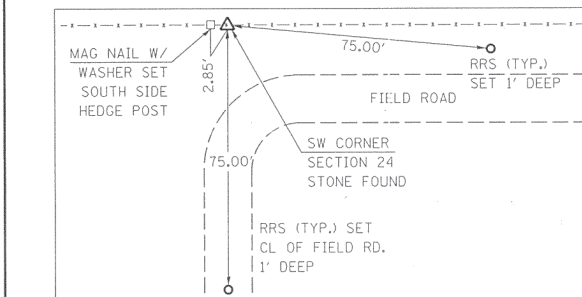
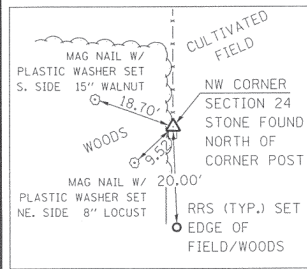
CONTRACT NO. 76A36
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT

PART OF SECTION 23 & 24, T4N, R5W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

POINT*/DESC.	I.D.O.T. PROVIDED CONTROL & ALIGNMENT			
	STATION	OFFSET	NORTH	EAST
1	52+66.41	18.10' LT	769,856.9590	453,455.4730
2	55+98.92	19.20' RT	769,824.9100	453,788.5320
3	61+25.95	20.58' RT	769,831.8340	454,315.5160

TOTAL HOLDING SKETCH



SPACE RESERVED FOR RECORDING OFFICER

COORDINATE TABLE		
DESCRIPTION	NORTH	EAST
IRF CENTER SECTION 23	769,794.1950	450,777.5430
IRF N 1/4 CORNER SECTION 23	772,472.6450	452,014.1180
IPF	770,561.0690	453,405.0410
IPF NW CORNER E 1/2, SE 1/4, NE 1/4 SECTION 23	771,156.8580	452,719.1800
IPF NW PROP CORNER FREY	770,549.6960	452,738.5530
IPF SW PROP CORNER FREY	769,862.3650	452,759.9060
IPF SW CORN SECTION 24	767,239.1990	458,842.8180
IRF SW CORNER SE 1/4, SE 1/4 SECTION 24	767,226.6570	457,508.6170
IRF S 1/4 CORNER SECTION 24	767,220.2200	456,183.3400
IRF NE CORNER SECTION 24	772,565.3490	458,721.5520
STONE FOUND SW CORNER SECTION 24	767,188.1160	453,519.1320
STONE FOUND SE CORNER N 1/2, SE 1/4 SECTION 24	768,552.3840	456,135.7620
STONE FOUND NW CORNER SECTION 24	772,500.0950	453,339.8150
IPF SW CORNER E 1/2, NE 1/4, SE 1/4 SECTION 23	768,504.0290	452,812.5250
IRF FOUND SE PROP CORNER KOPP	769,886.9461	454,581.7858
IRF FOUND NE PROP CORNER KOPP	770,036.6660	454,577.3480
IRF FOUND NE PROP CORNER TABOR	770,478.6220	454,747.3320
IRON ROD SET SE CORNER SW 1/4, NW 1/4 SECTION 24	769,853.3658	454,765.3279

ASSOCIATED PROFESSIONALS, INC.
 17625 Mockingbird Road, P.O. Box 311
 Nashville, Illinois 62263
 Ph. 618-478-9000 Fax 618-478-9001
 e-mail: api@apisurvey.com
 IDPR Design Firm License No. 184-001303

STATE OF ILLINOIS)
) SS
 COUNTY OF WASHINGTON)
 I, GARY S. MUELLER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 12/10/2008
 Gary S. Mueller
 GARY S. MUELLER, PLS NO. 3332
 LICENSE EXPIRATION DATE: 11/30/2010



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 793 (IL 143)
 SECTION 40BR-1
 MADISON COUNTY
 JOB NO. R-98-023-08
 TOTAL HOLDING

SCALE: 1" = 200'

SHEET 6 OF 6

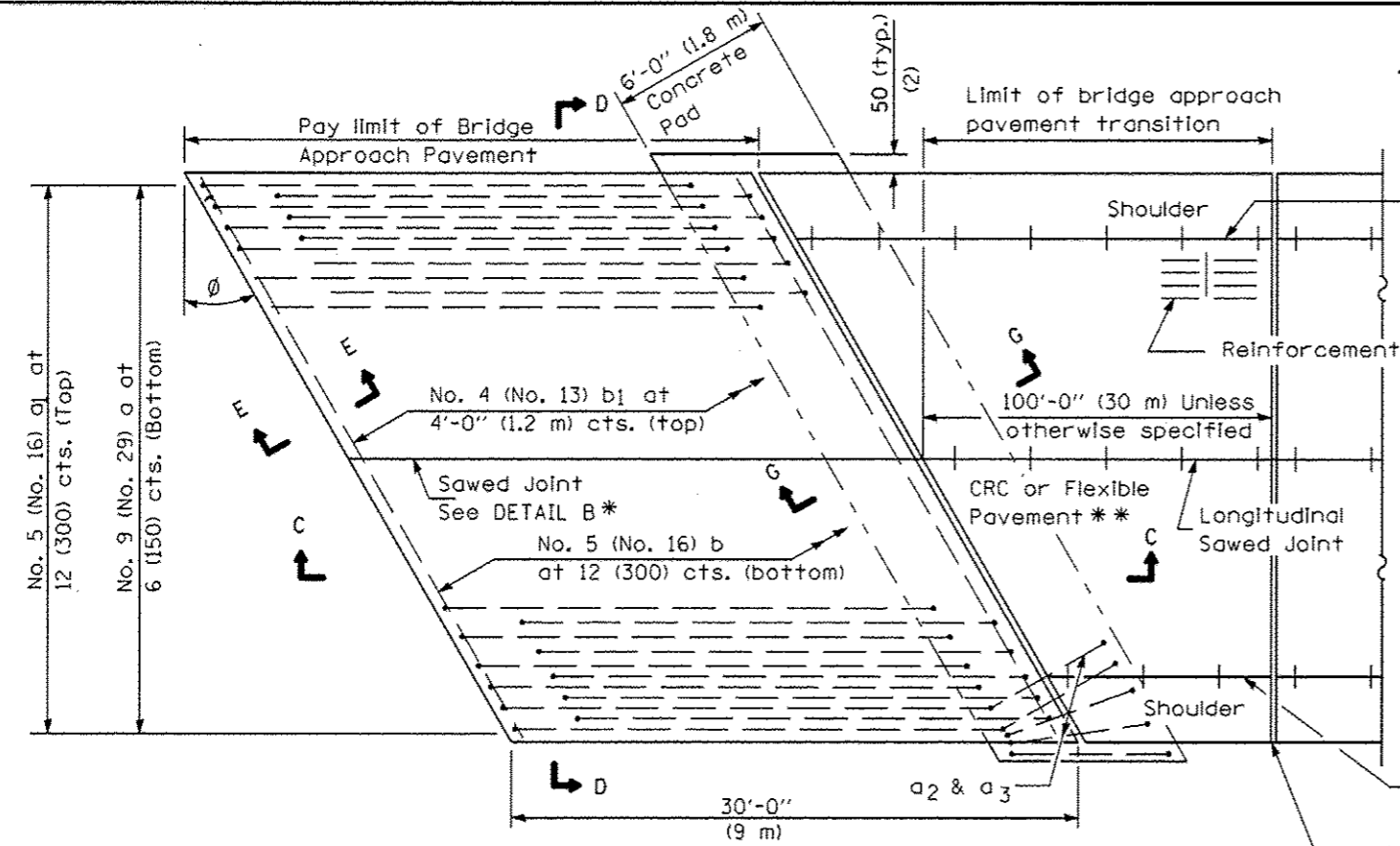
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	25

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6198

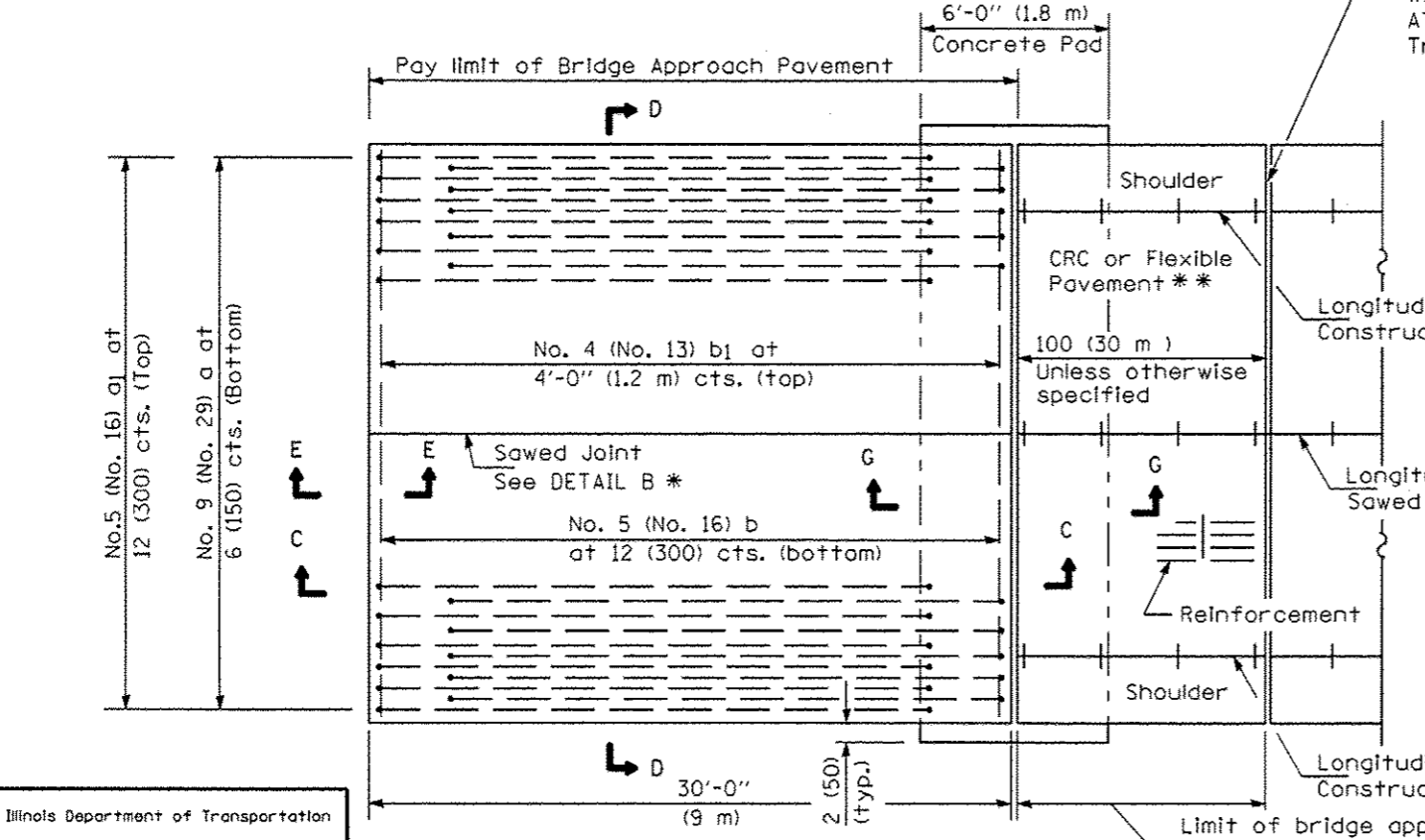
COMPLETION DATE OF FIELD WORK PERFORMED
 LAND SURVEY: 6/25/2008 ROW STAKING: 9/25/2008

CONTRACT NO. 76A36
 FED. ROAD DIST. NO. 8 [ILLINOIS] FED. AID PROJECT

NEW CONSTRUCTION



PLAN - WITH SKEW



PLAN - WITHOUT SKEW

Longitudinal Construction Joint

Shoulder

Reinforcement

100'-0" (30 m) Unless otherwise specified

CRC or Flexible Pavement **

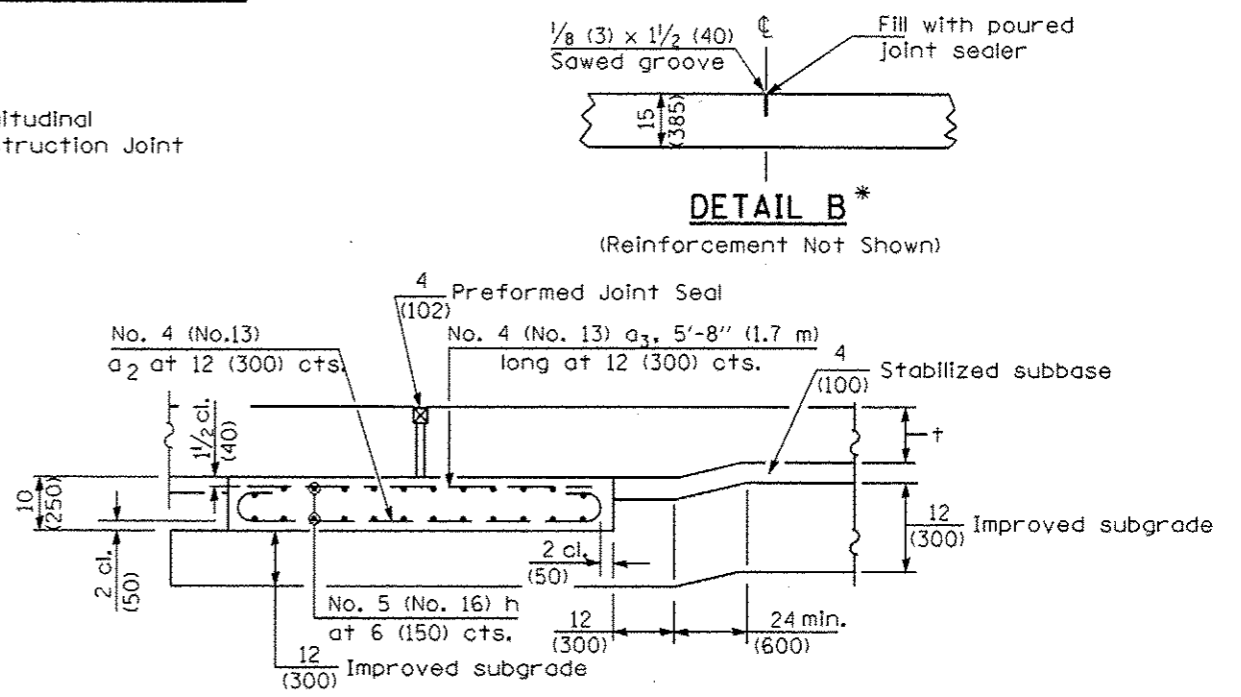
Longitudinal Sawed Joint

Shoulder

Longitudinal Construction Joint

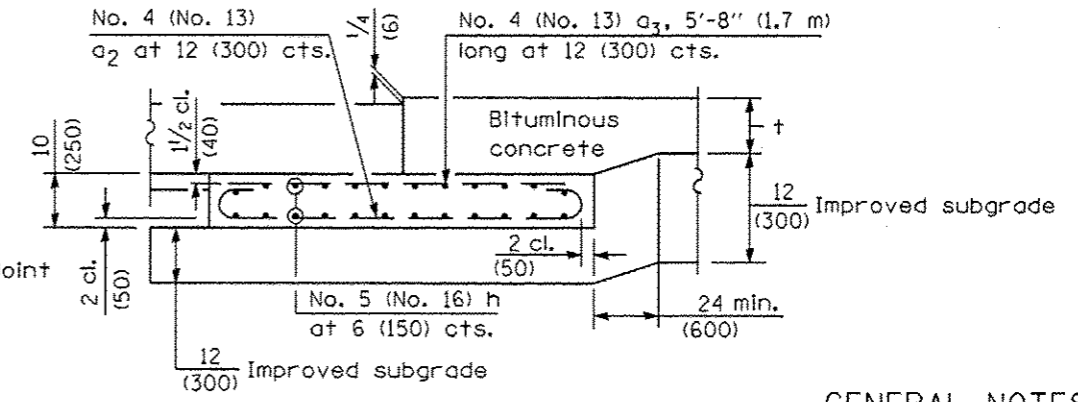
Rigid Pavement only:

Wide Flange Beam Terminal Joint (See DETAIL AT BEAM - Standard 421101 or 421106) or 2 (50) Trans. Exp. Joint as detailed on Standard 420001.



SECTION G-G - RIGID PAVEMENT

(Showing reinforcement)



SECTION G-G - FLEXIBLE PAVEMENT

(Showing reinforcement)

GENERAL NOTES

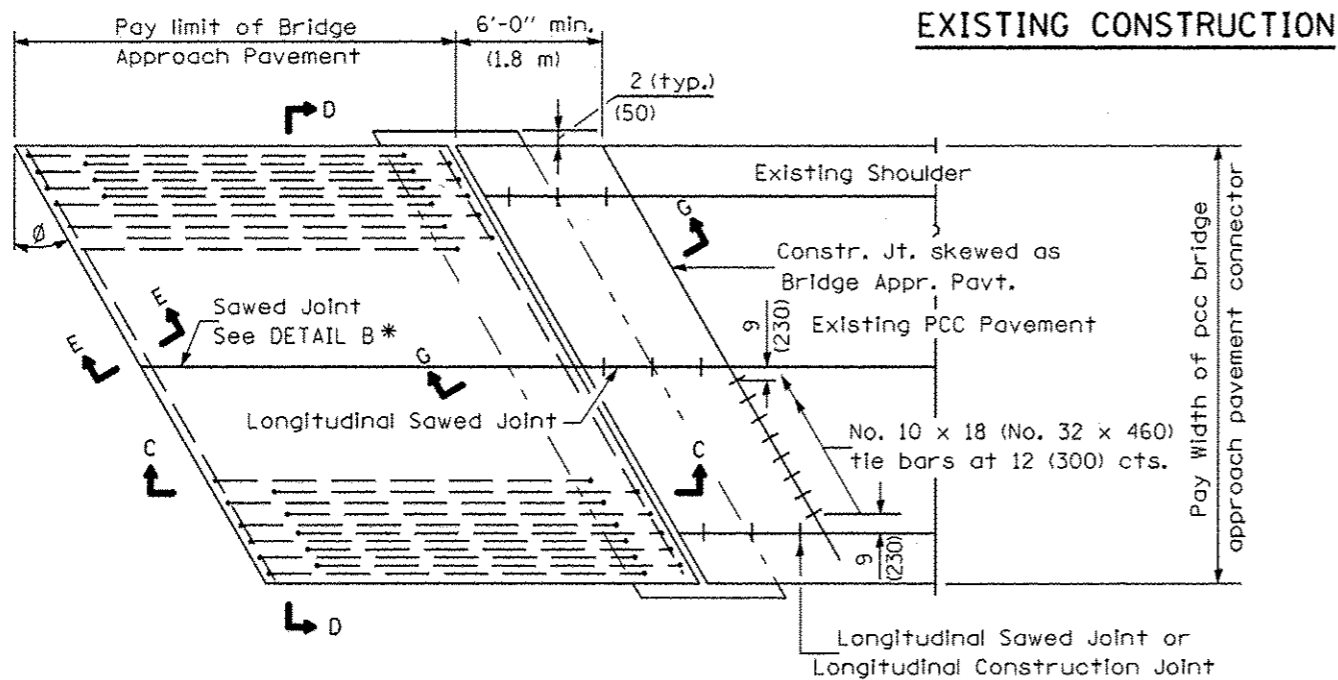
THICKNESS-"t"=Thickness of Pavement.
See Standard 421001 for reinforcement details not shown.
See Standard 420001 for joint details not shown.
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2008
Ken E. Han
ENGINEER OF DESIGN AND ENVIRONMENT

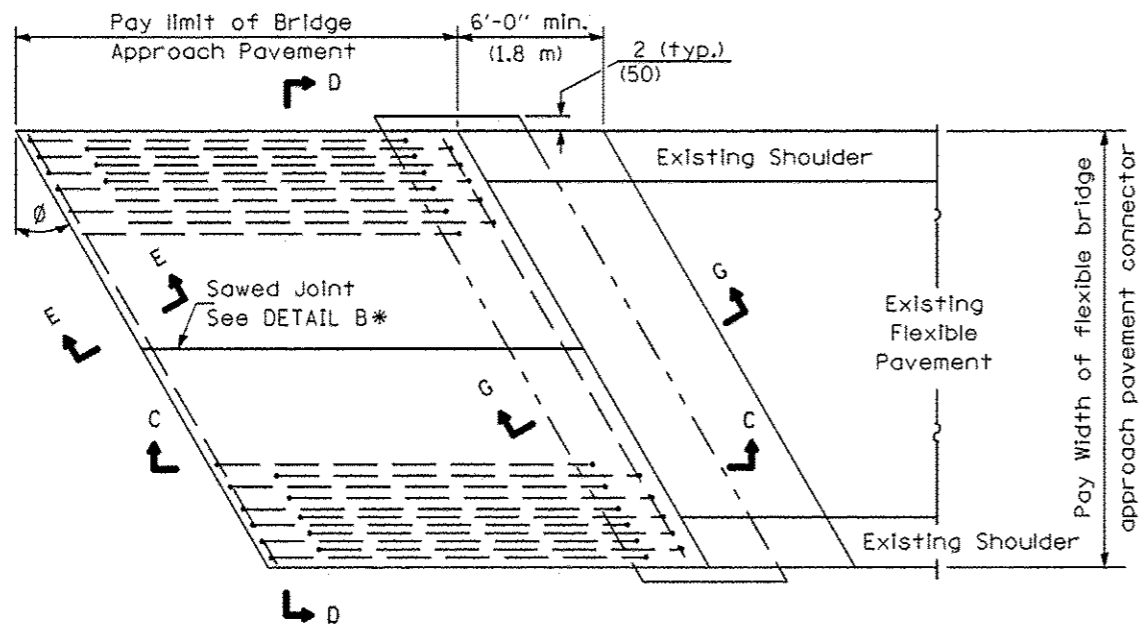
* Saw \perp or lane edge if poured two or more lane widths at a time.
** Omit Reinforcement, tie bars and Long. sawed Jt. for Flexible Pavement.

DATE	REVISIONS
1-1-08	Switched units to English (metric). Moved rebar epoxy coat note to Standard Spec.
1-1-04	Rev. size of Trans. Exp. Jt. and soft converted metric reinf.

BRIDGE APPROACH PAVEMENT		
SHEET NO.	TOTAL	(Sheet 1 of 4)
26	72	
STANDARD 420401-06		

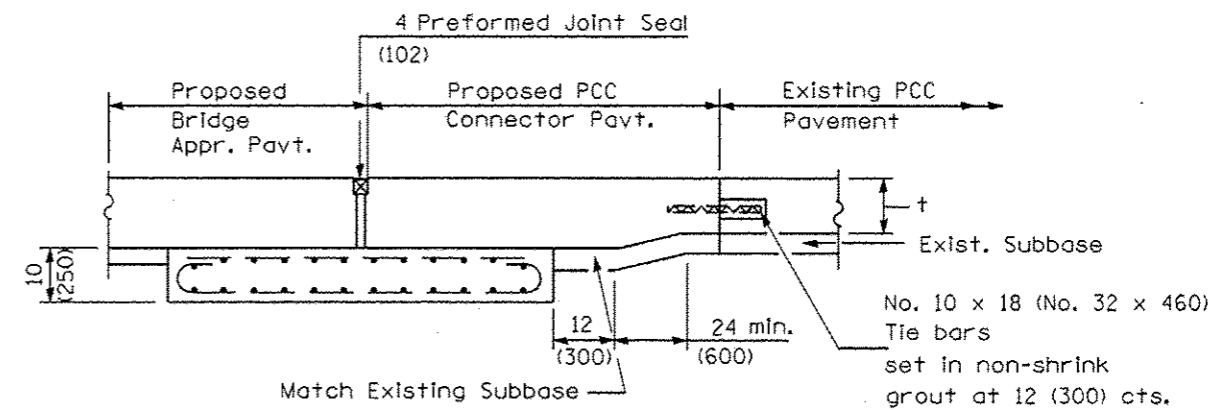


BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)

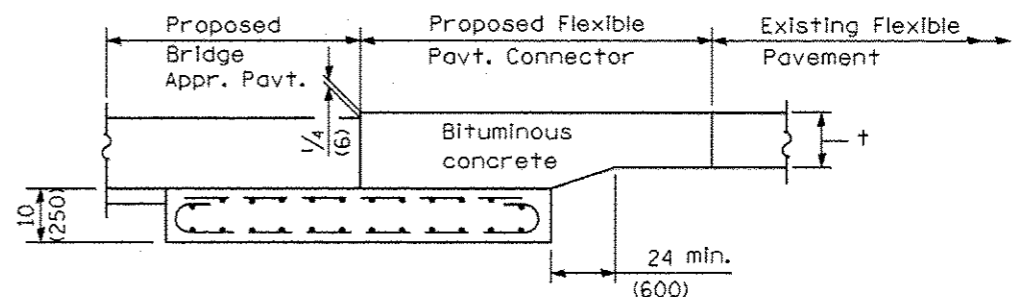


BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

EXISTING CONSTRUCTION



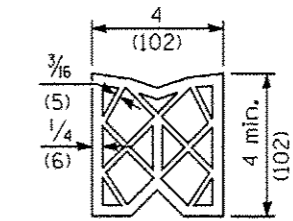
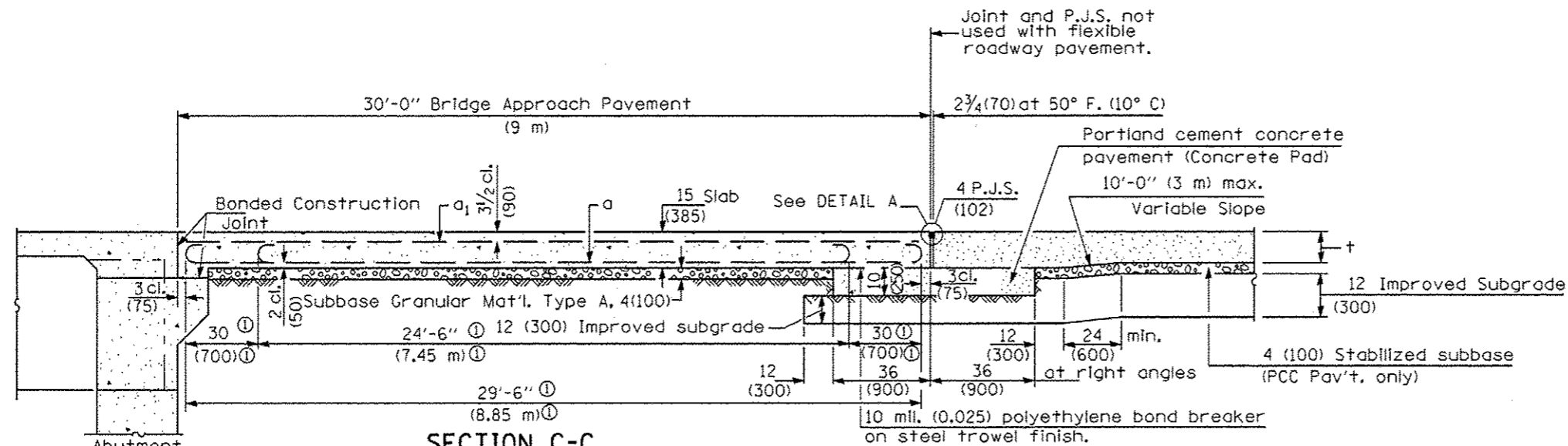
SECTION G-G - RIGID PAVEMENT



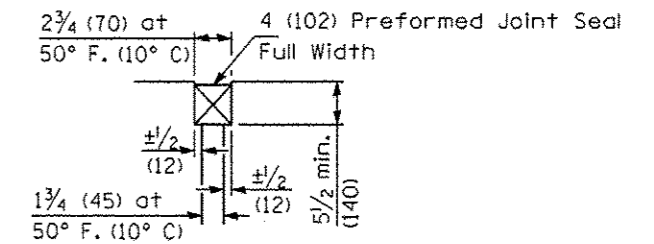
SECTION G-G - FLEXIBLE PAVEMENT

Illinois Department of Transportation
 APPROVED January 1, 2008
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES
 APPROVED January 1, 2008
Ken E. Han
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT		
SHEET NO.	TOTAL	(Sheet 2 of 4)
27	72	
STANDARD 420401-06		

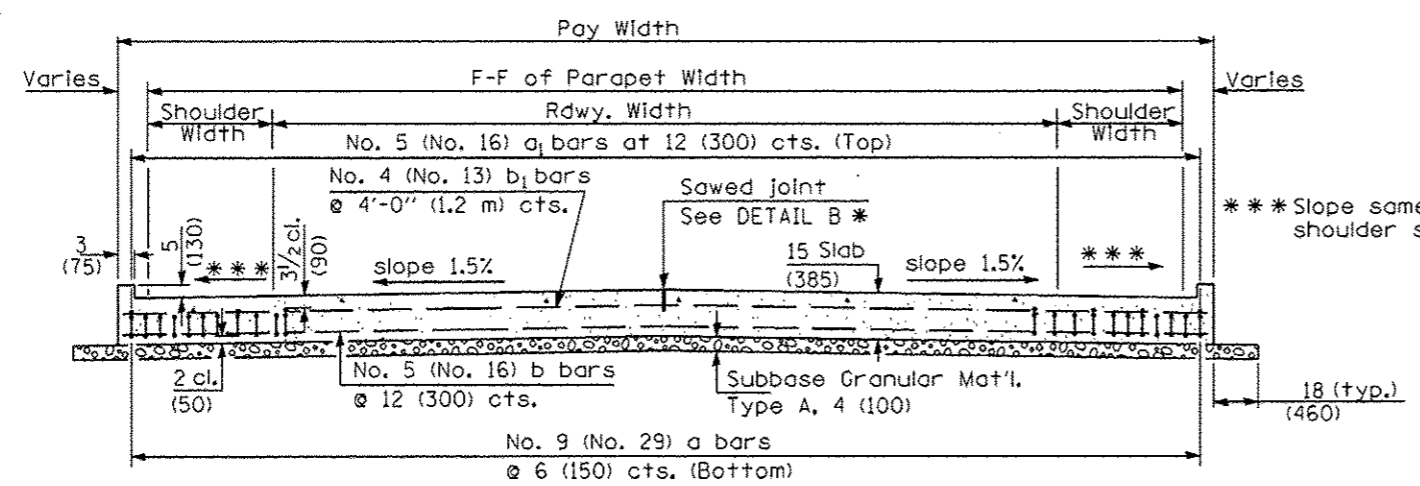


PREFORMED JOINT SEAL



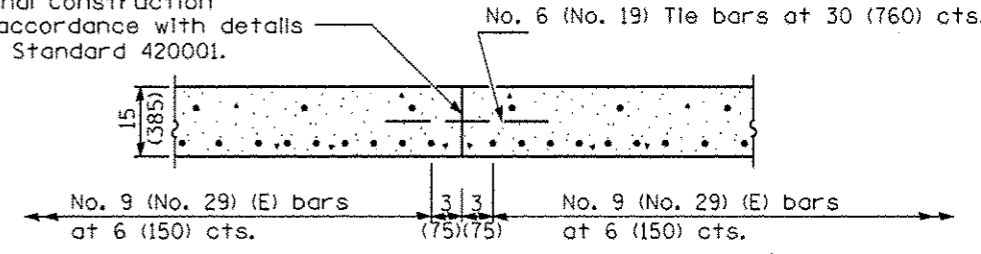
DETAIL A

SECTION C-C
 ① Stagger No. 9 (No. 29) a bars as shown on plan - full width



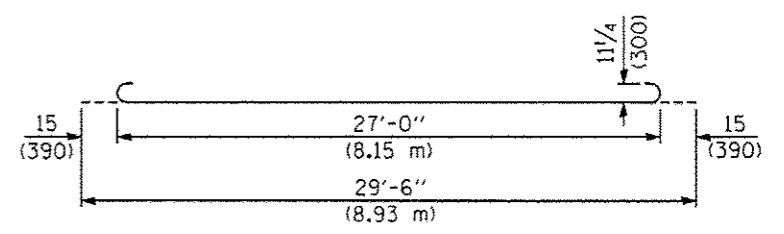
SECTION D-D
 (See Plan for Dimensions not shown)

Longitudinal Construction Joint in accordance with details shown on Standard 420001.

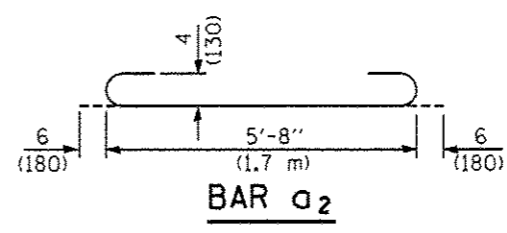


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

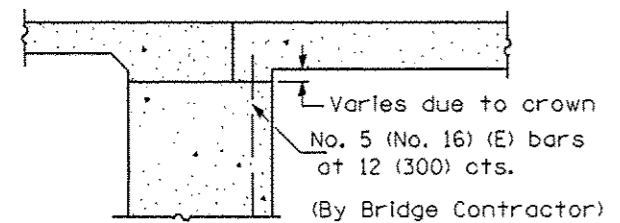
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



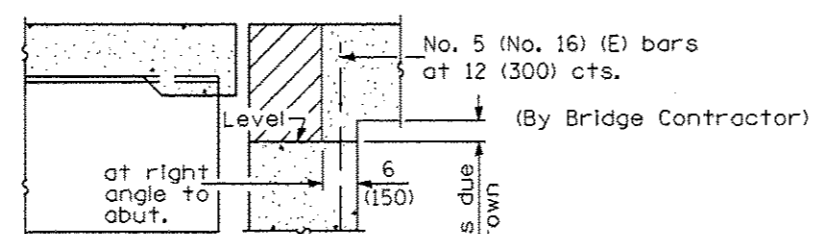
BAR a



BAR a2



SECTION E-E
 (Integral Abutments)



SECTION E-E
 (Jointed Abutments)

DESIGN STRESSES
 fy = 60,000 p.s.i. (400 MPa)
 f'c = 3,500 p.s.i. (24 MPa)
 n = 8.5

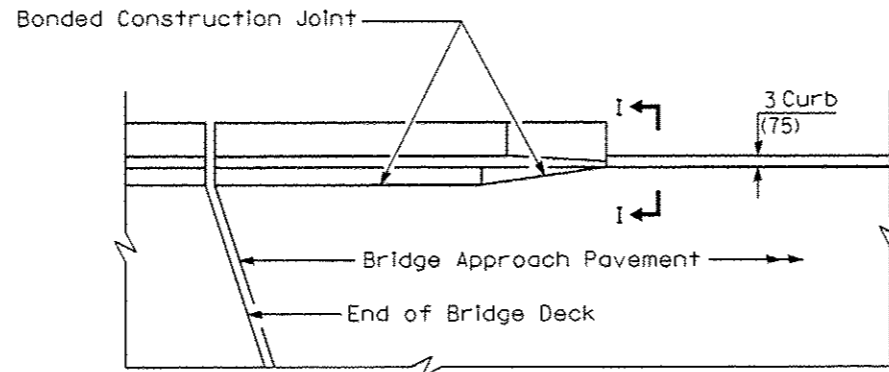
BRIDGE APPROACH PAVEMENT		
SHEET NO.	TOTAL	(Sheet 3 of 4)
28	72	
STANDARD 420401-06		

Illinois Department of Transportation

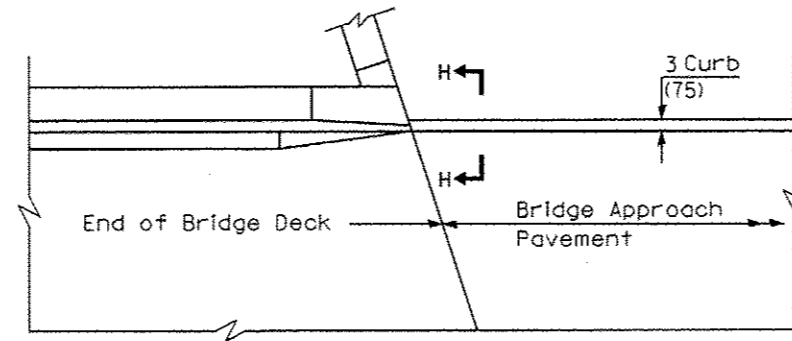
APPROVED January 1, 2008
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

ISSUED 1-1-1 16-1-1

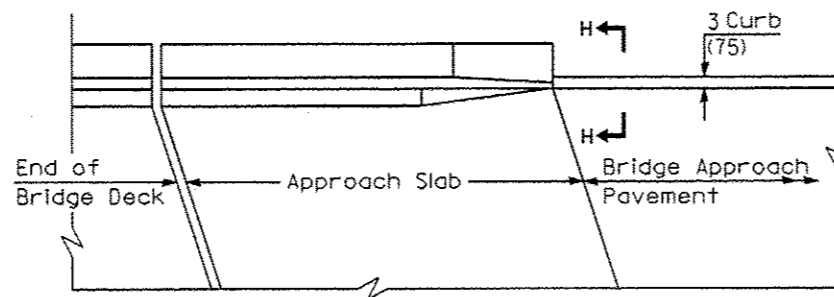
APPROVED January 1, 2008
Ken E. Han
 ENGINEER OF DESIGN AND ENVIRONMENT



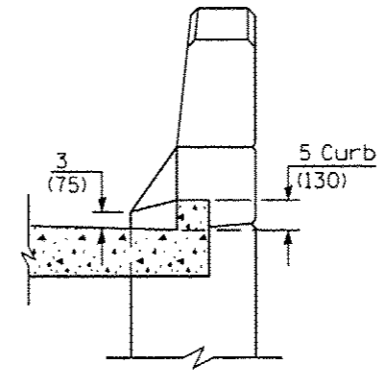
**PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT**



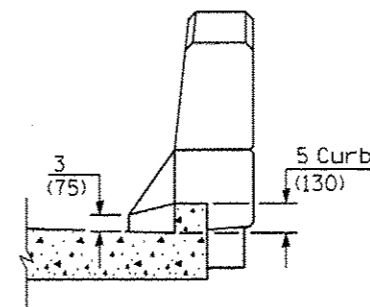
**PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT**



**PARAPET TO CURB TRANSITION
VAULTED ABUTMENT**



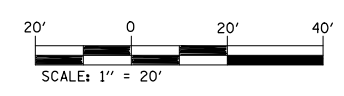
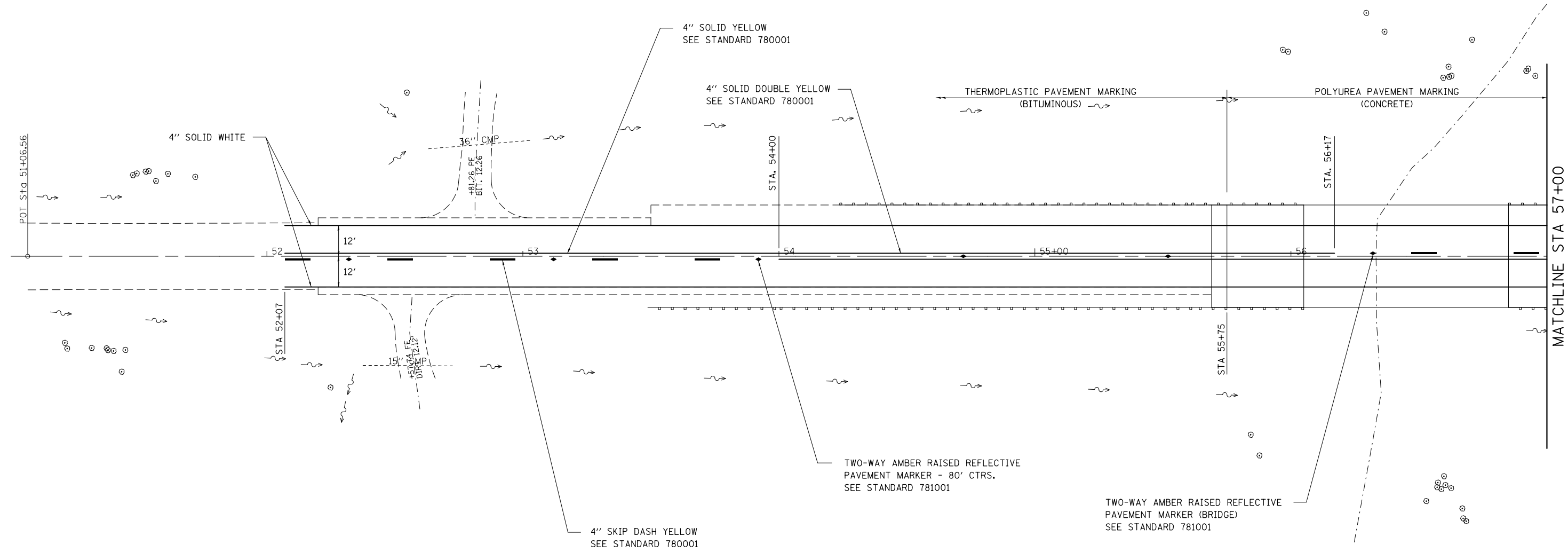
SECTION I - I



SECTION H - H

Illinois Department of Transportation
 APPROVED January 1, 2008
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES
 APPROVED January 1, 2008
Ken E. Han
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT		
SHEET NO.	TOTAL	(Sheet 4 of 4)
29	72	
STANDARD 420401-06		



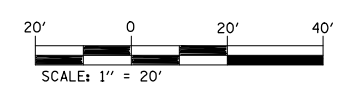
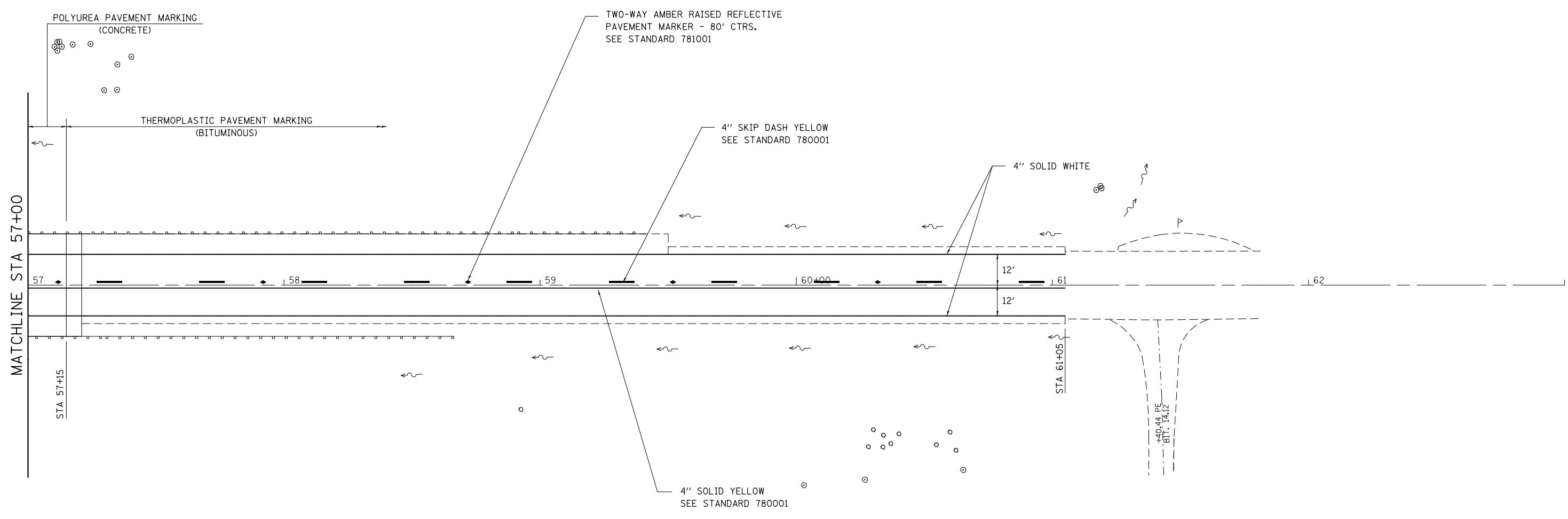
FILE NAME =	USER NAME = gelnh	DESIGNED -	REVISED -
et:\pw\work\p\dot\gelnh\dms69644\pin007a.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/10/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: SHEET NO. OF SHEETS STA. 51+00 TO STA. 57+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	30
CONTRACT NO. 76A36				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

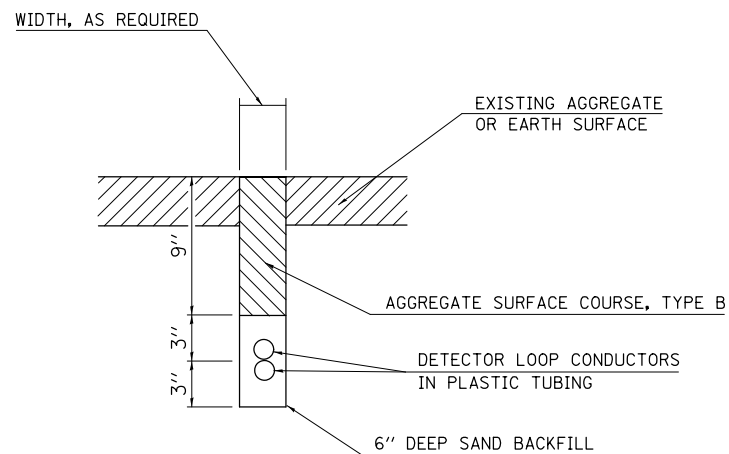


FILE NAME =	USER NAME = gelnh	DESIGNED -	REVISED -
et:\pw\work\p\dot\gelnh\dms69644\pin0007a.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/10/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE:	SHEET NO.	OF SHEETS	STA. 57+00 TO STA. 63+00

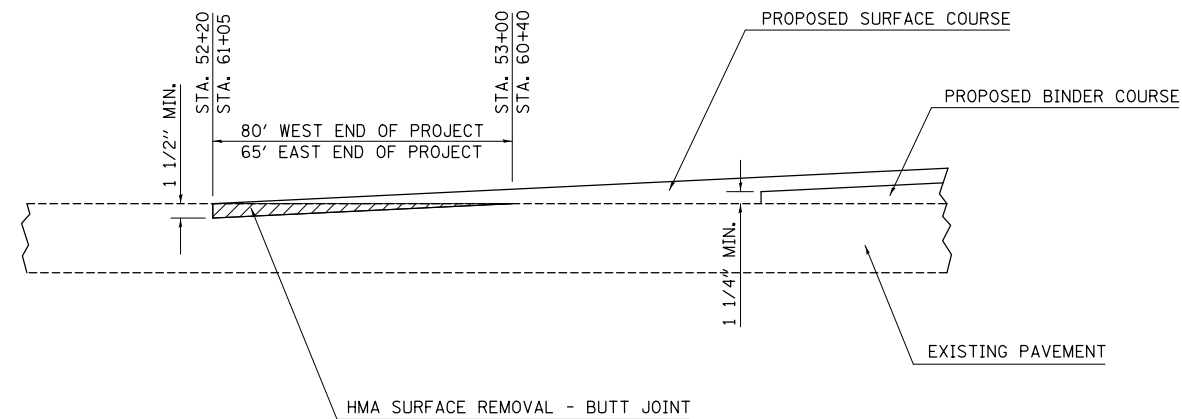
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	31
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DETECTOR LOOP INSTALLED IN TRENCH

INSTALLATION IS TO BE DONE IN CONFORMANCE WITH THE REQUIREMENTS OF THE PLANS AND SECTION 886 OF THE STANDARD SPECIFICATIONS WITH THE FOLLOWING EXCEPTIONS:

1. SLOTS ARE TO BE TRENCHED INSTEAD OF SAWED.
2. THIS WORK SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF "TEMPORARY BRIDGE TRAFFIC SIGNALS (STATE FURNISHED CONTROLLER)" - 1 EACH.



BUTT JOINT DETAIL

FILE NAME =	USER NAME = gelnh	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\gelnh\dms69644\pin0007a.dgn	DRAWN -	REVISED -	REVISED -						793	40BR-1	MADISON	72	32
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 76A36								
PLOT DATE = 9/10/2012	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

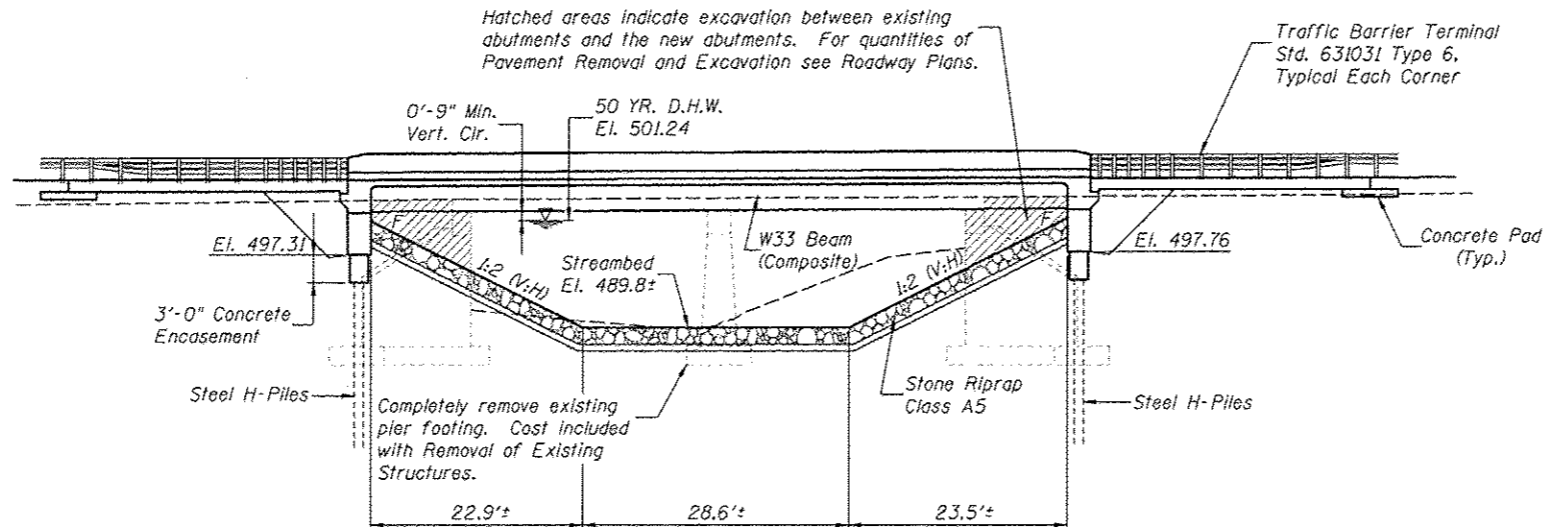
BENCHMARK: T.B.M. Iron Rod Set (by IDOT)
Sta. 61+25.94, 20.6' Rt.
El. 515.047

EXISTING STRUCTURE S.N. 060-0128
Built in 1926 as SBI Rte. 11, the Superstructure was reconstructed and widened in 1978 as FAP Rte. 793. The structure consists of 17" P.P.C. deck beams with a bituminous concrete overlay on closed concrete abutments and a concrete pier, all with timber piles. The existing structure measures 56'-3" back to back of abutments and 33'-0" out to out of deck.

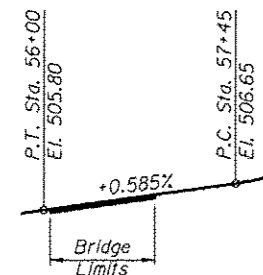
The road shall be kept open to one lane of traffic at all times by utilizing stage construction.

SALVAGE: NO SALVAGE

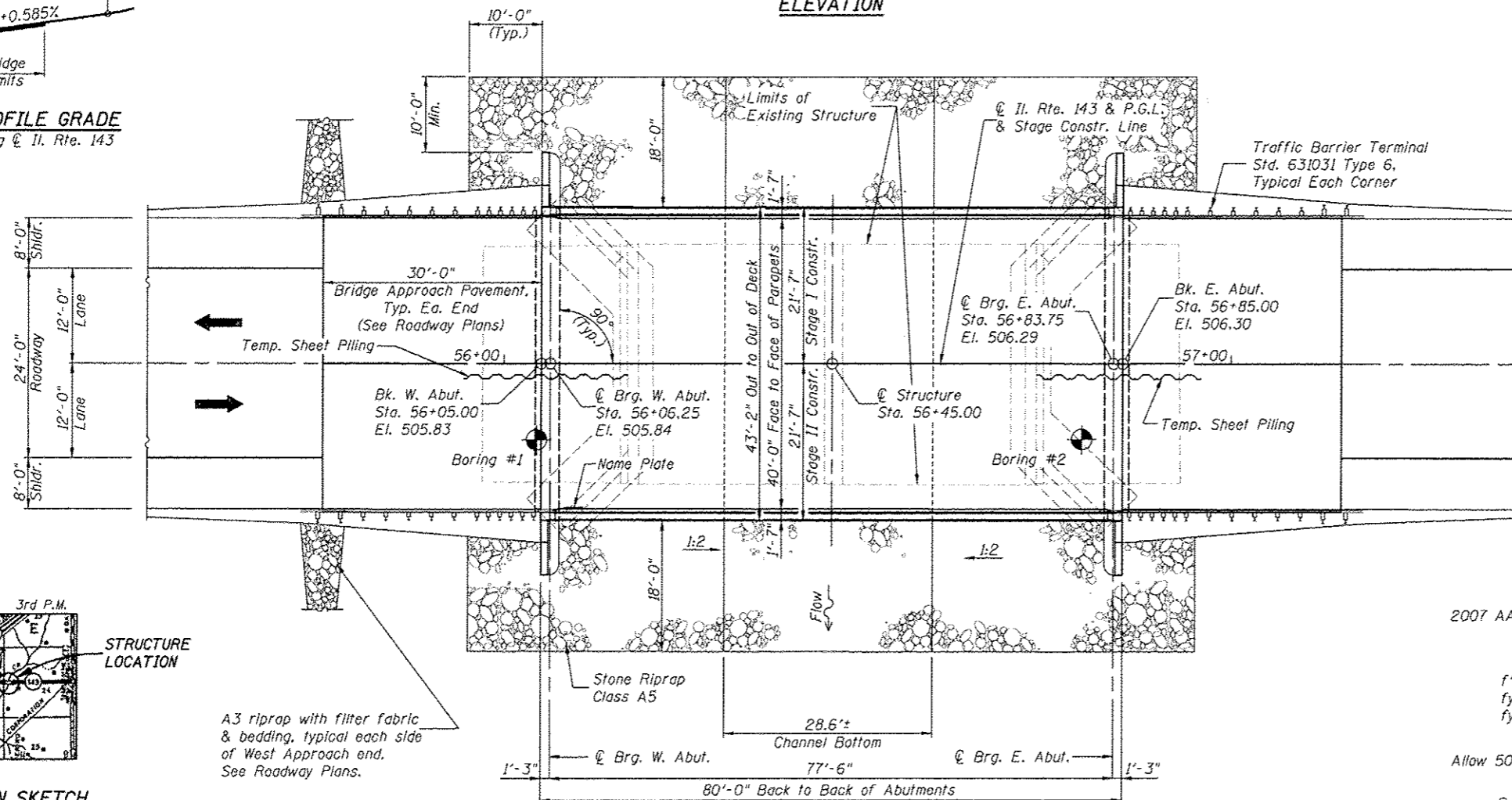
Hatched areas indicate excavation between existing abutments and the new abutments. For quantities of Pavement Removal and Excavation see Roadway Plans.



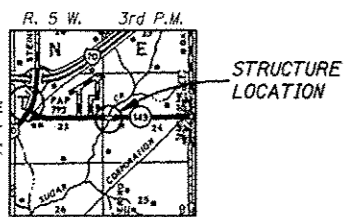
ELEVATION



PROFILE GRADE
along C. Il. Rte. 143



PLAN



LOCATION SKETCH

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

Bradley G. Hummert Date: 2/27/09
Bradley G. Hummert
Licensed Structural Engineer
in Carlyle, Illinois
No. 081-005428 Expires 11/30/2010



WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exst.	Prop.		Exst.	Prop.	Exst.	Prop.
Design	50	2,750	367.55	593.00	501.24	2.50	1.80	503.74	503.04
Base	100	3,222	380.76	612.49	501.50	3.13	2.07	504.63	503.57
Overtopping Existing	51	2,753	367.55	N/A	501.24	2.53	N/A	503.77	N/A
Overtopping Proposed	250	3,875	N/A	637.25	501.83	N/A	2.43	N/A	504.26
Scour	10	1,705	329.93	541.73	500.54	1.43	1.20	501.97	501.74

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (Feet)	W. Abut.	E. Abut.
	494.31	494.76

INDEX OF SHEETS

- General Plan & Elevation
- General Data
- Stage Construction Details
- Temporary Concrete Barrier for Stage Construction
- Top Of Slab Elevations
- Top Of Slab Elevations
- Top Of Slab Elevations
- Top of West Approach Pavement Elevations
- Top of East Approach Pavement Elevations
- Superstructure
- Superstructure Details
- Integral Abutment Diaphragm Details
- Structural Steel
- Steel Details
- West Abutment
- East Abutment
- Bar Splicer Assembly Details
- HP Pile Details
- Soil Boring Logs
- Soil Boring Logs

STATION 56+45
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 793 SEC. 40BR-1
LOADING HL93
STRUCTURE NO. 060-0341

NAME PLATE
See Std. 515001

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

FIELD UNITS

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

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.09g
Site Coefficient (S) = 1.5

GENERAL PLAN
IL. RTE. 143
OVER SUGAR CREEK
STATION 56+45

SHEET NO. 1	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 33
20 SHEETS	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHMARK: T.B.M. Iron Rod Set (by IDOT)
Sta. 61+25.94, 20.6' RI.
El. 515.047

EXISTING STRUCTURE S.N. 060-0128

Built in 1926 as SBI Rte. 11, the Superstructure was reconstructed and widened in 1978 as FAP Rte. 793. The structure consists of 17" P.P.C. deck beams with a bituminous concrete overlay on closed concrete abutments and a concrete pier, all with timber piles. The existing structure measures 56'-3" back to back of abutments and 33'-0" out to out of deck.

The road shall be kept open to one lane of traffic at all times by utilizing stage construction.

SALVAGE: NO SALVAGE

WATERWAY INFORMATION

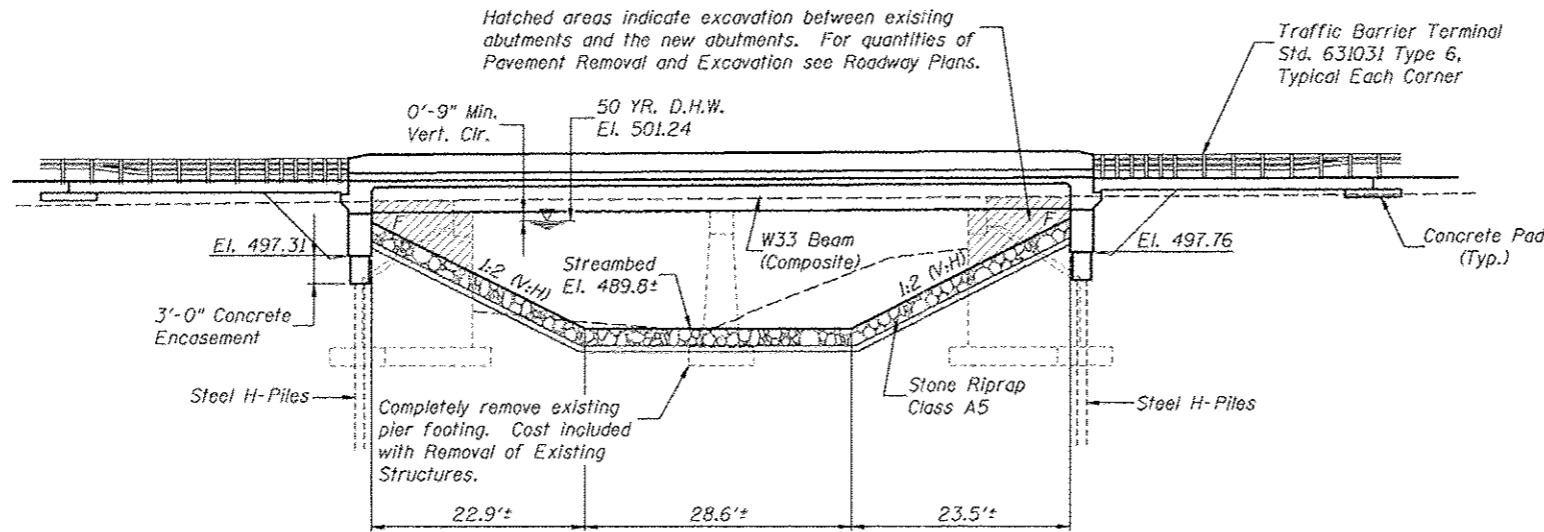
		Drainage Area = 10.13 Sq. Mi.		Low Grade El. 504.26 @ Sta. 53+42						
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.	Exlst.	Prop.	Exlst.	Prop.
Design	50	2,750	367.55	593.00	501.24	2.50	1.80	503.74	503.04	
Base	100	3,222	380.76	612.49	501.50	3.13	2.07	504.63	503.57	
Overtopping Existing	51	2,753	367.55	N/A	501.24	2.53	N/A	503.77	N/A	
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Scour	10	1,705	329.93	541.73	500.54	1.43	1.20	501.97	501.74	

DESIGN SCOUR ELEVATION TABLE

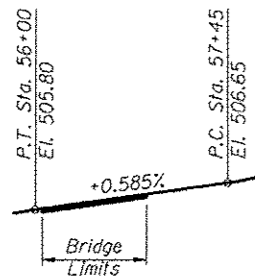
Design Scour Elevation (Feet)	W. Abut.	E. Abut.
	494.31	494.76

INDEX OF SHEETS

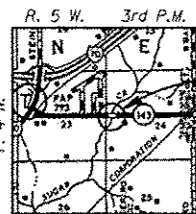
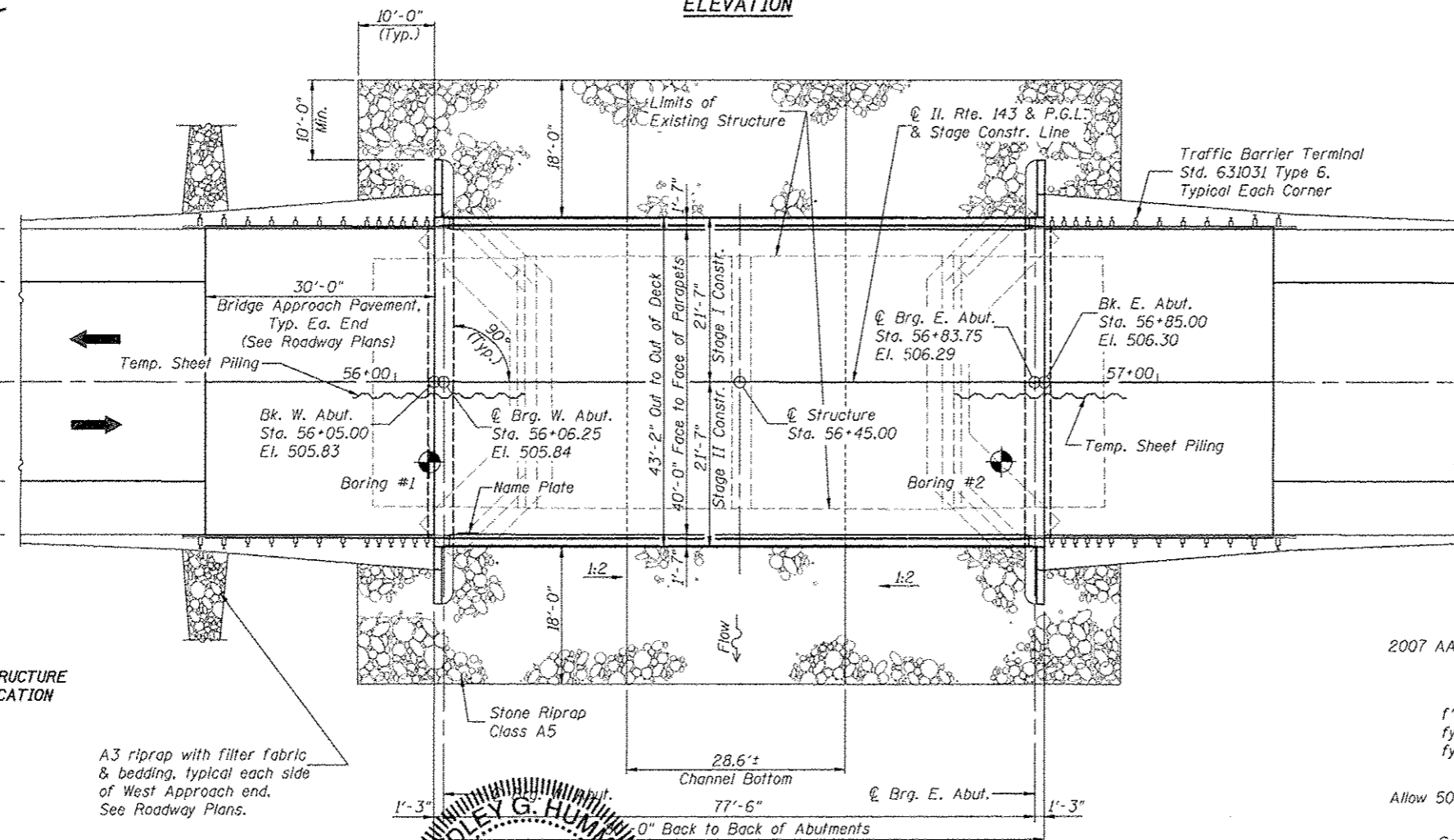
1. General Plan & Elevation
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
5. Top Of Slab Elevations
6. Top Of Slab Elevations
7. Top Of Slab Elevations
8. Top of West Approach Pavement Elevations
9. Top of East Approach Pavement Elevations
10. Superstructure
11. Superstructure Details
12. Integral Abutment Diaphragm Details
13. Structural Steel
14. Steel Details
15. West Abutment
16. East Abutment
17. Bar Splicer Assembly Details
18. HP Pile Details
- 18A. Concrete Parapet Slipforming Option
19. Soil Boring Logs
20. Soil Boring Logs



ELEVATION



PROFILE GRADE
along @ Il. Rte. 143



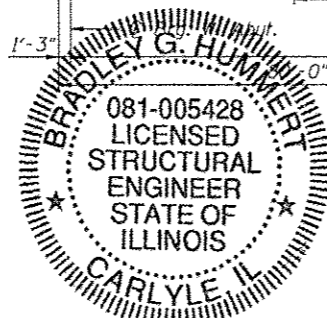
STRUCTURE LOCATION

A3 riprap with filter fabric & bedding, typical each side of West Approach end. See Roadway Plans.

LOCATION SKETCH

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

Bradley G. Hummert Date: 2/21/13
Bradley G. Hummert
Licensed Structural Engineer
in Carlyle, Illinois
No. 081-005428 Expires 11/30/2014



PLAN

APPROVED
For Structural Adequacy Only

Dr. Carl Rungger
Engineer of Bridges & Structures

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.09g
Site Coefficient (S) = 1.5

STATION 56+45
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 793 SEC. 40BR-1
LOADING HL93
STRUCTURE NO. 060-0341

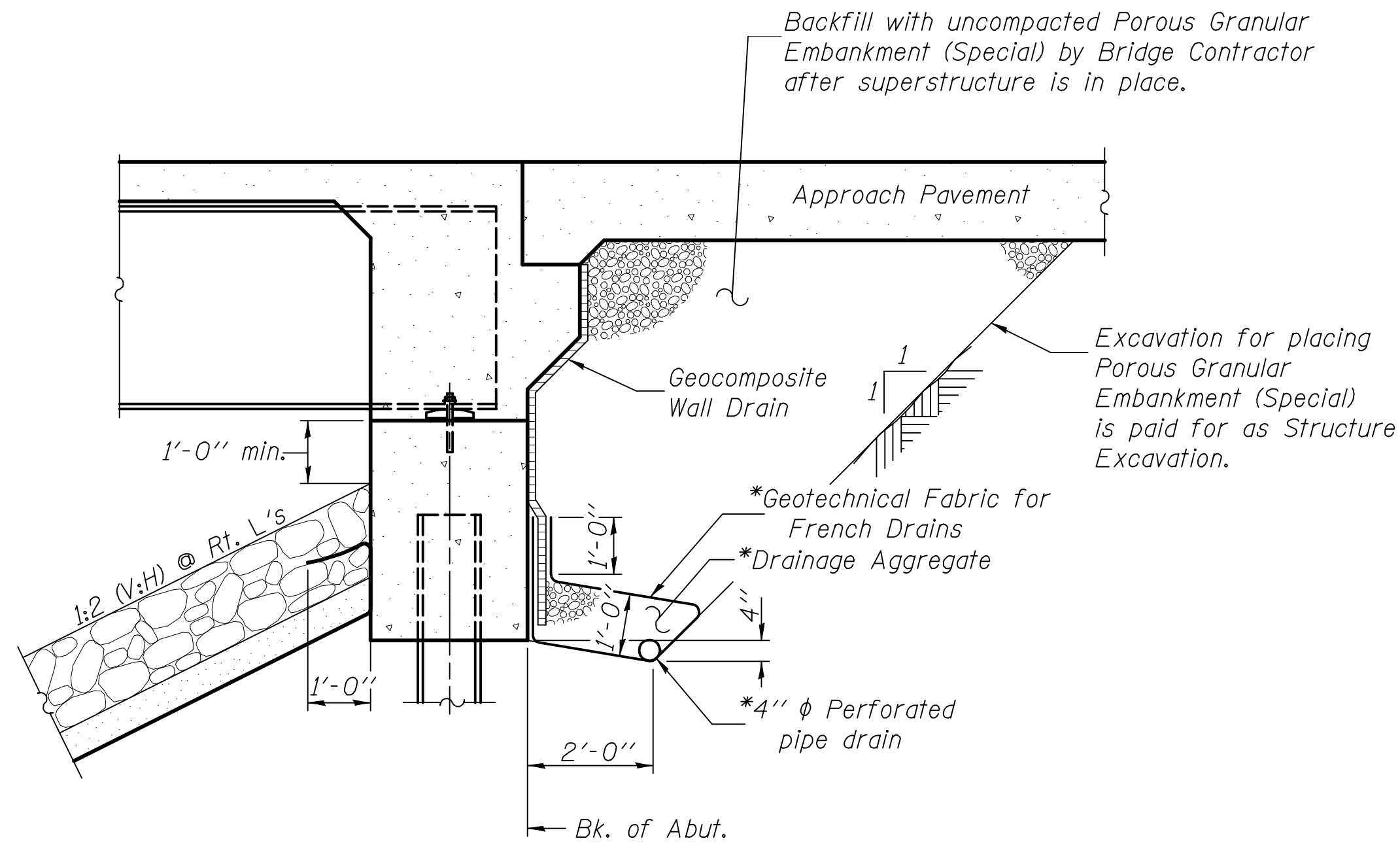
NAME PLATE
See Std. 515001

GENERAL PLAN
IL. RTE. 143
OVER SUGAR CREEK
STATION 56+45

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20 SHEETS	793	40BR-1	MADISON	72	33
		S.N. 060-0341	CONTRACT NO. 76A36		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

0600341_76A36_02_DATA.DGN FEB. 21. 2013



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

Note:

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

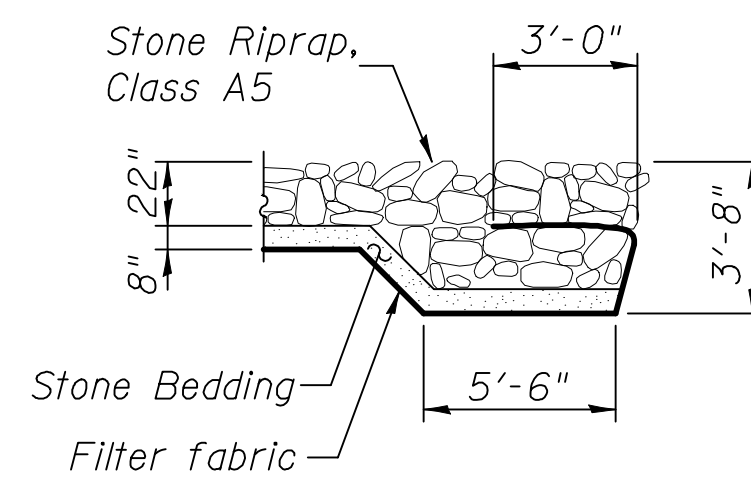
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	—	168	168
Stone Riprap, Class A5	Sq. Yd.	—	801	801
Filter Fabric	Sq. Yd.	—	801	801
Removal of Existing Structures	Each	—	—	1
Structure Excavation	Cu. Yd.	—	262	262
Concrete Structures	Cu. Yd.	—	48.0	48.0
Concrete Superstructure	Cu. Yd.	137.1	—	137.1
Bridge Deck Grooving	Sq. Yd.	338	—	338
Concrete Encasement	Cu. Yd.	—	6.6	6.6
** Protective Coat	Sq. Yd.	423	—	423
Furnishing and Erecting Structural Steel	L. Sum	1	—	1
Stud Shear Connectors	Each	1,692	—	1,692
Reinforcement Bars, Epoxy Coated	Pound	29,010	7,940	36,950
Bar Splicers (E)	Each	379	22	401
Furnishing Steel Piles HP 14x73	Foot	—	457	457
Driving Piles	Foot	—	457	457
Test Pile Steel HP 14x73	Each	—	1	1
Temporary Sheet Piling	Sq. Ft.	—	418	418
Name Plates	Each	1	—	1
Anchor Bolts, 1"	Each	—	24	24
Geocomposite Wall Drain	Sq. Yd.	—	93	93
Pipe Underdrains for Structures 4"	Foot	—	202	202
Temporary Soil Retention System	Sq. Ft.	—	126	126

** Quantity includes top of concrete surface of bridge deck back to back of abutments and the top and inside vertical faces of the parapets.

GENERAL NOTES

- The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure. If the Contractor's procedures for existing beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.
- Piles that cannot avoid the existing footing shall be driven through 24-inch diameter pre-cored holes extending to elevation 485.5 ft. (East Abutment) and elevation 486.3 ft. (West Abutment) according to Article 512.09(c) of the Standard Specifications. Cost included in Driving Piles.
- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 3/4" in. ϕ , holes 5/16" in. ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 99,490 lbs.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
- A cantilevered sheet piling design does not appear feasible at the East Abutment 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 acceptance by the Engineer.



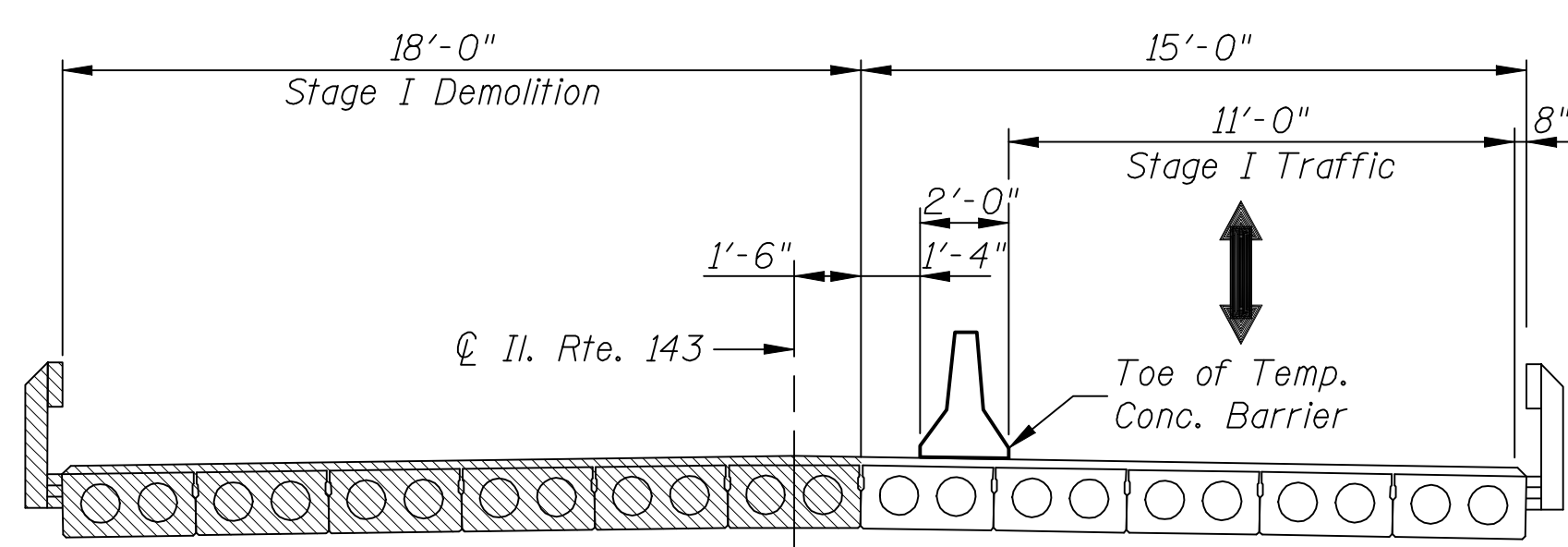
STONE RIPRAP FLANK DETAIL

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

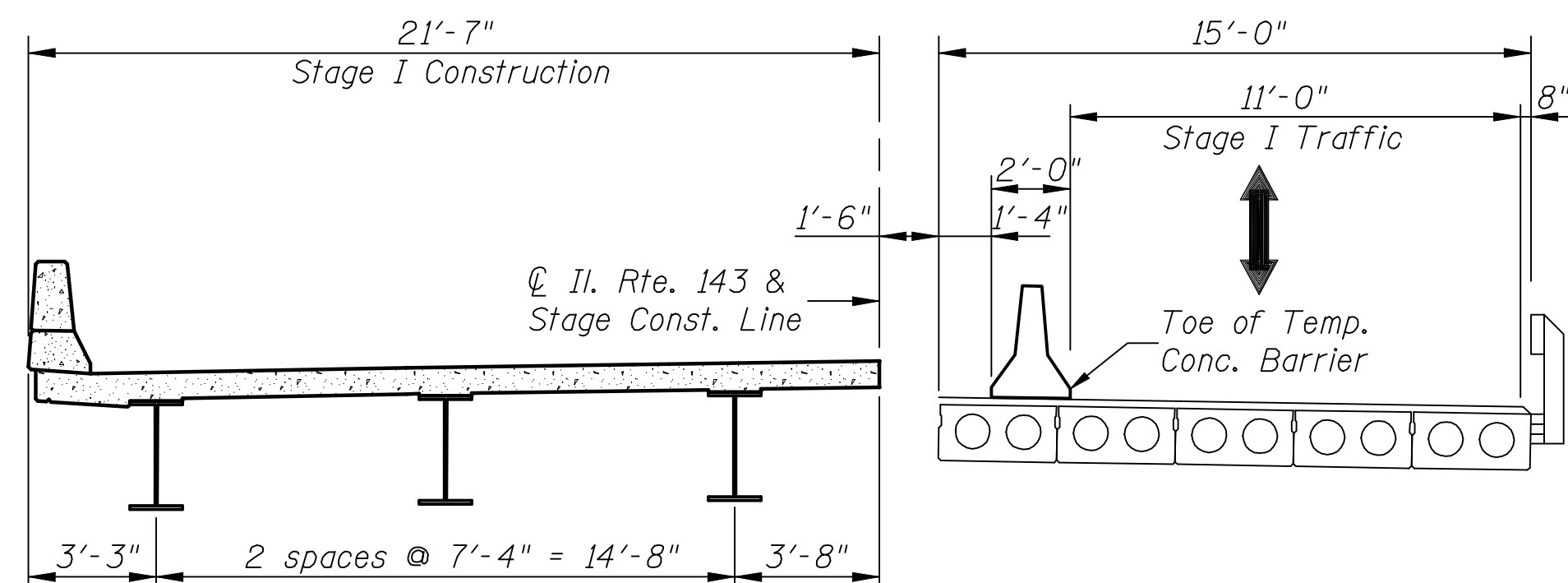
GENERAL DATA

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	34
20 SHEETS	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT		

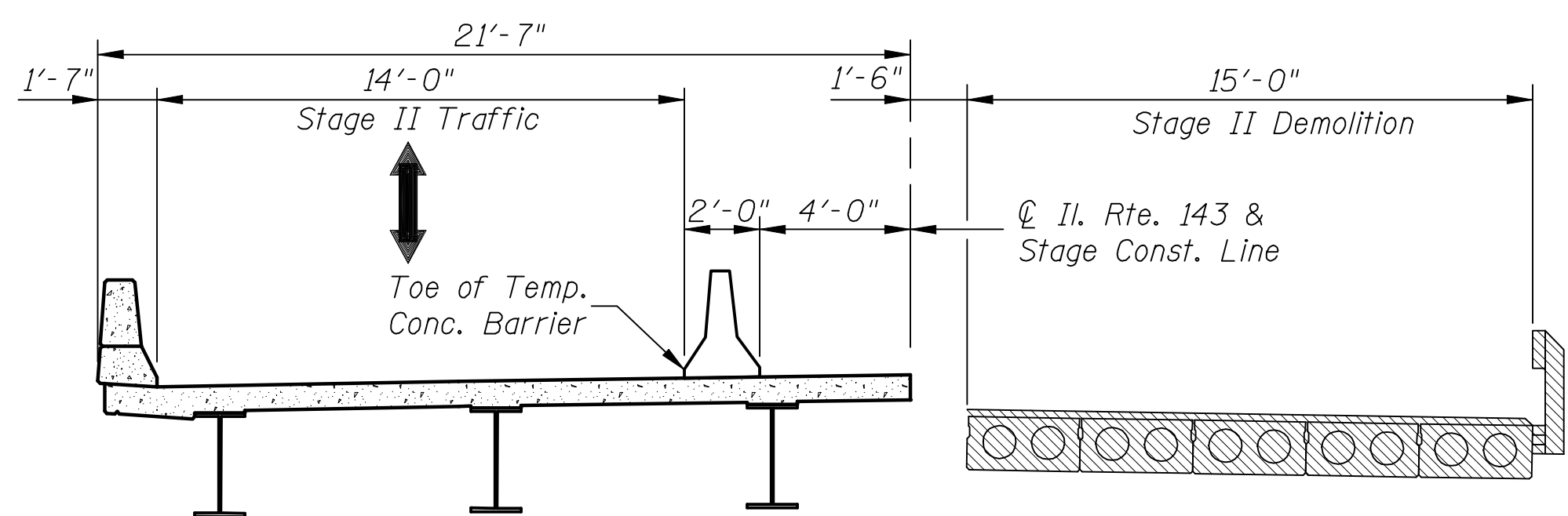
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



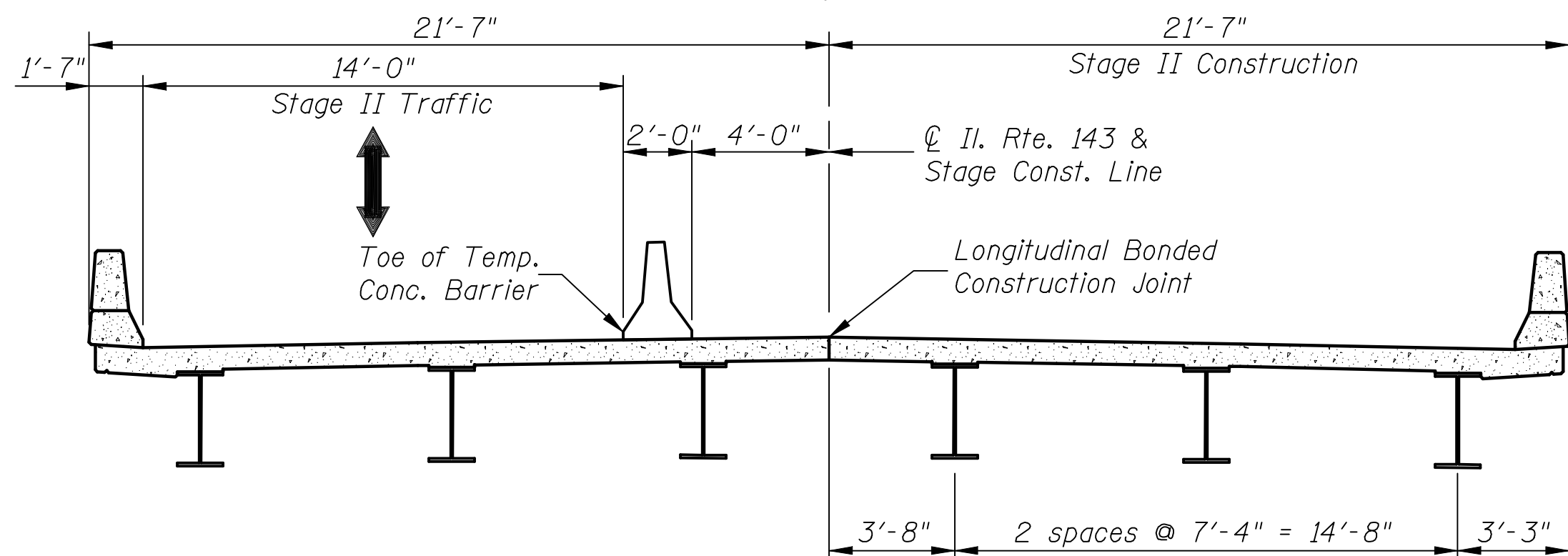
STAGE I DEMOLITION
(Looking East)



STAGE I CONSTRUCTION
(Looking East)

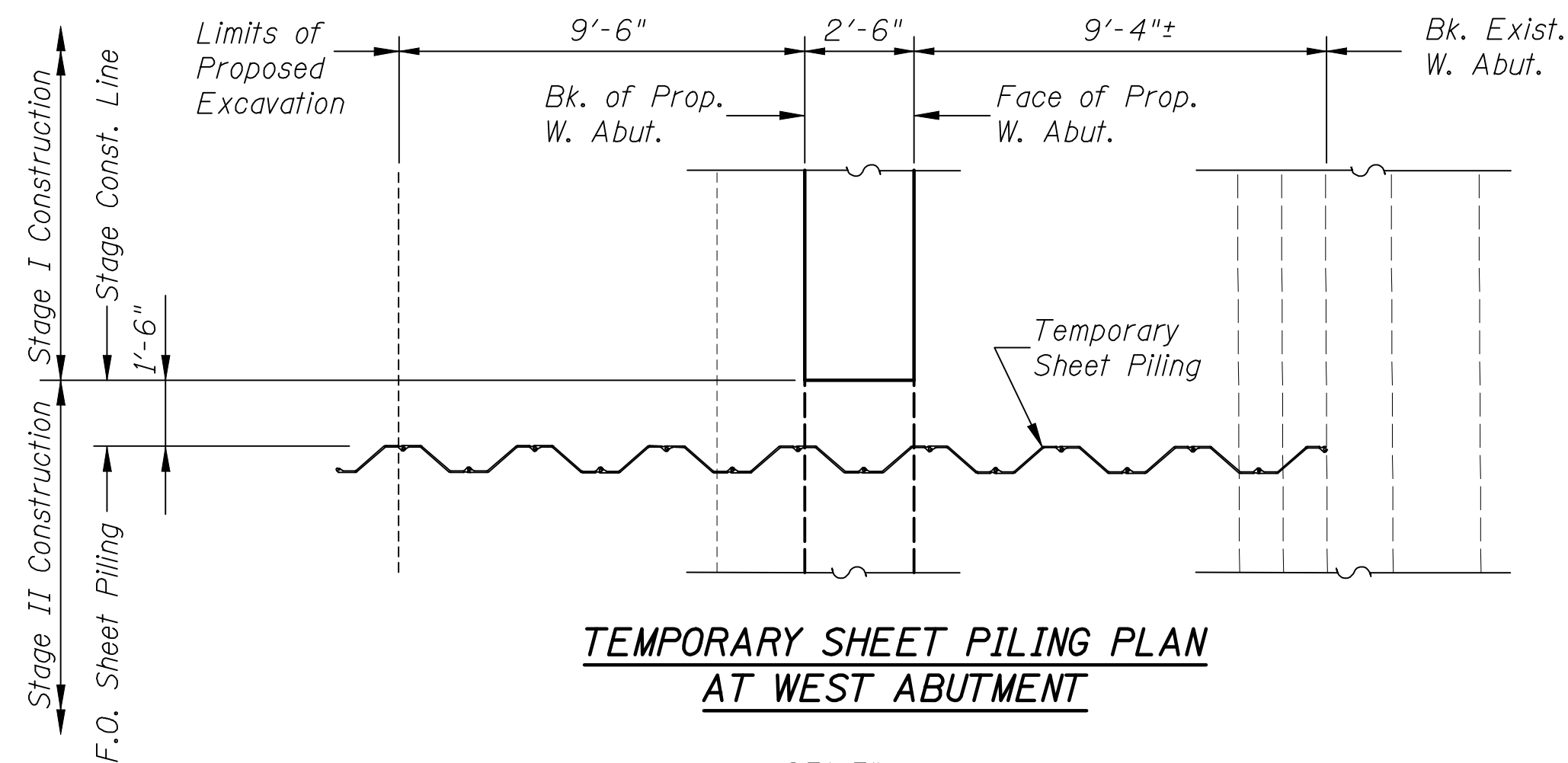


STAGE II DEMOLITION
(Looking East)

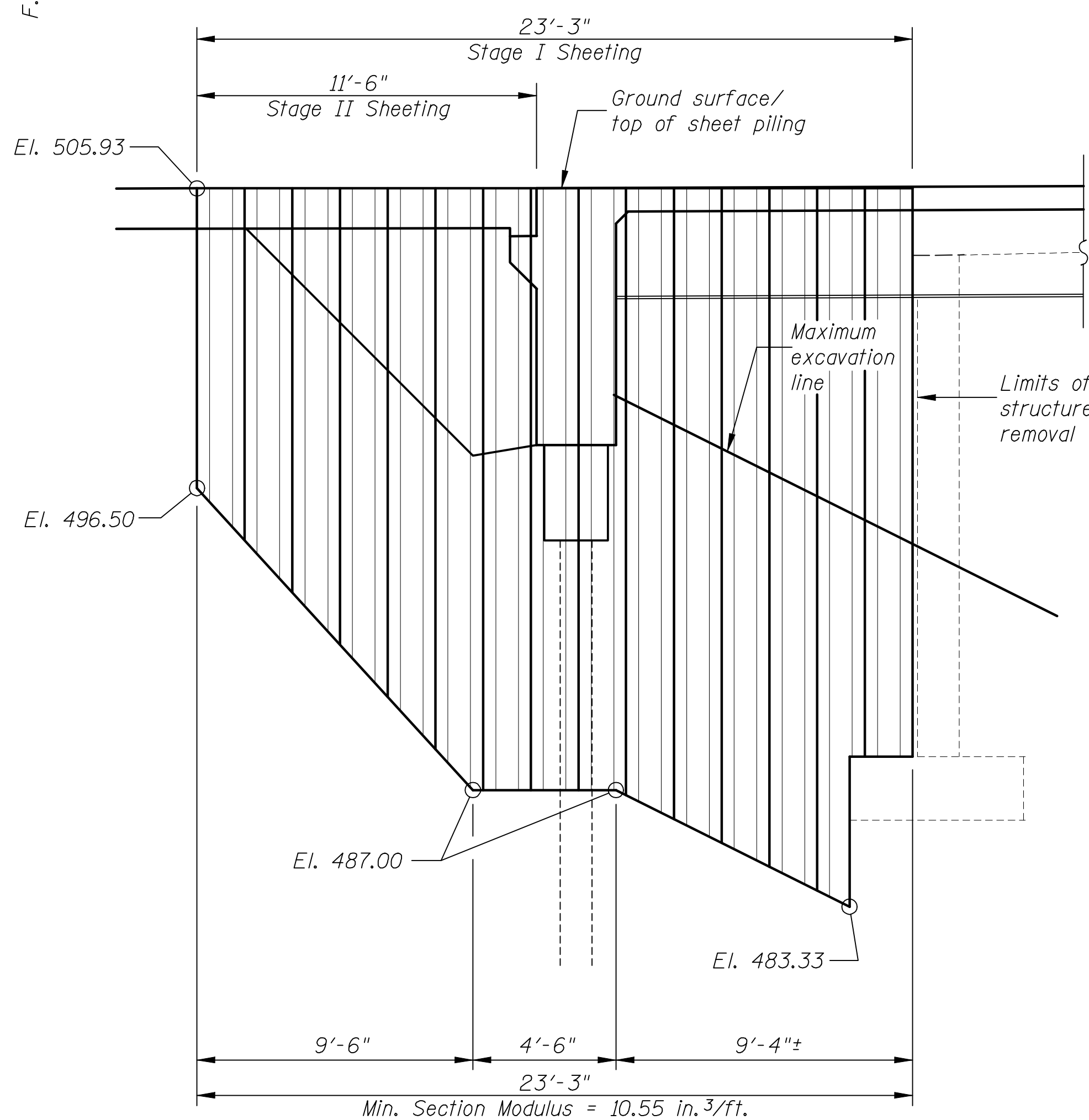


STAGE II CONSTRUCTION
(Looking East)

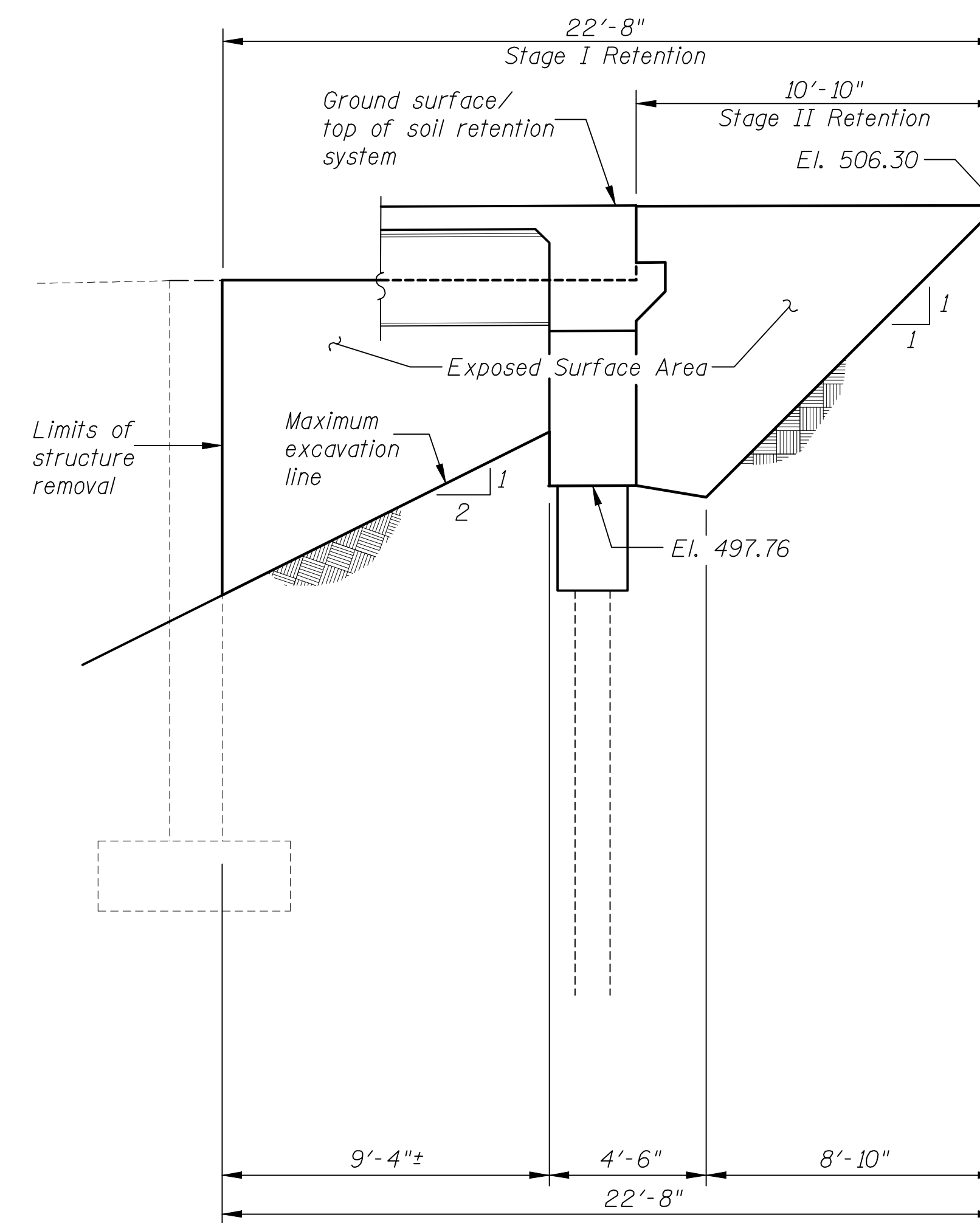
DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.



TEMPORARY SHEET PILING PLAN
AT WEST ABUTMENT



TEMPORARY SHEET PILING ELEVATION
AT WEST ABUTMENT



TEMPORARY SOIL RETENTION SYSTEM
ELEVATION AT EAST ABUTMENT

NOTES

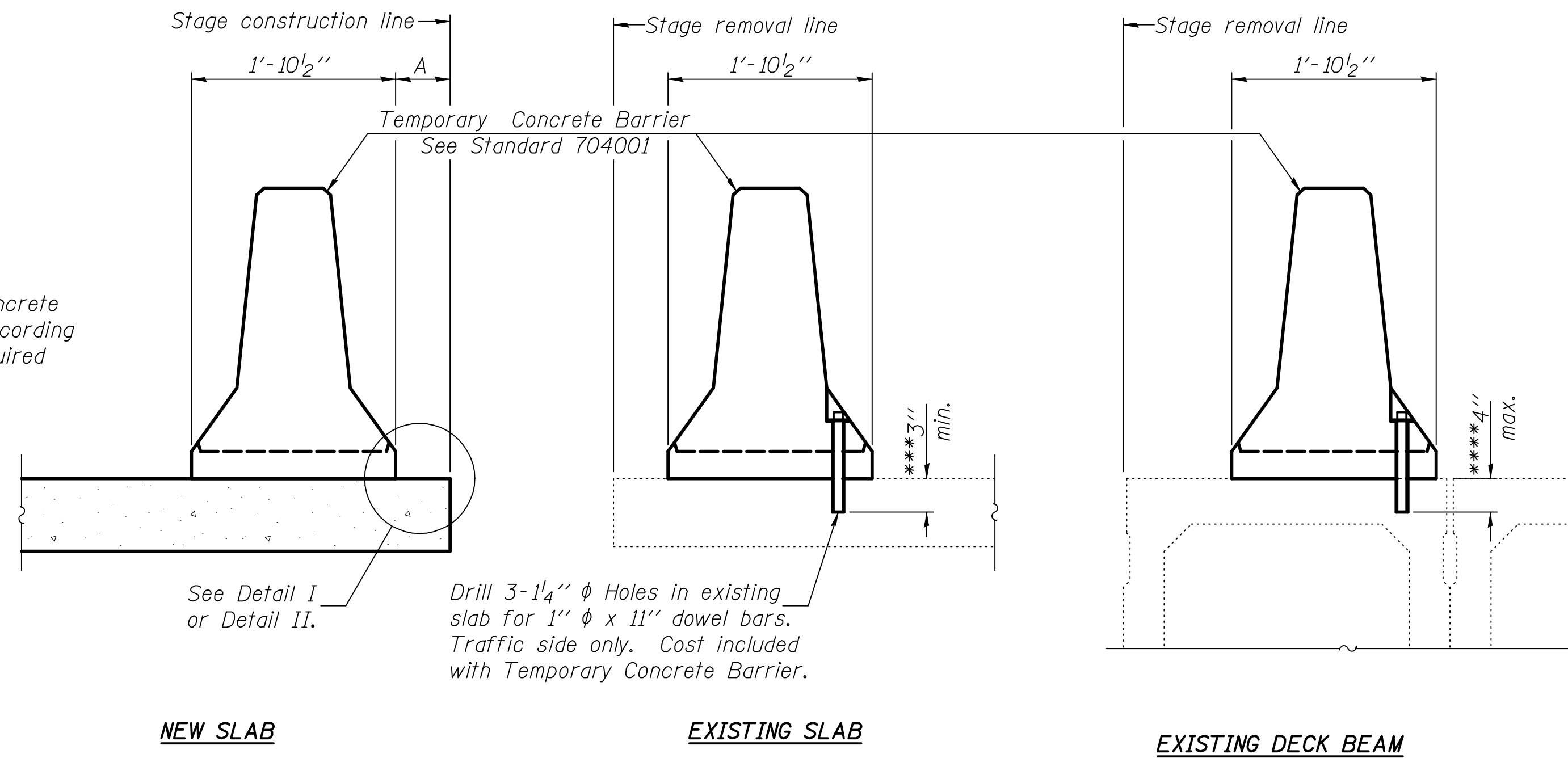
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal, including plan details and calculations, will be required for review and acceptance by the Engineer. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling. See Roadway Plans for quantity of Temporary Concrete Barrier.

STAGE CONSTRUCTION DETAILS

SHEET NO. 3 20 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	35
S.N. 060-0341			CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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".



Drill 3-1 1/4" ϕ Holes in existing slab for 1" ϕ x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

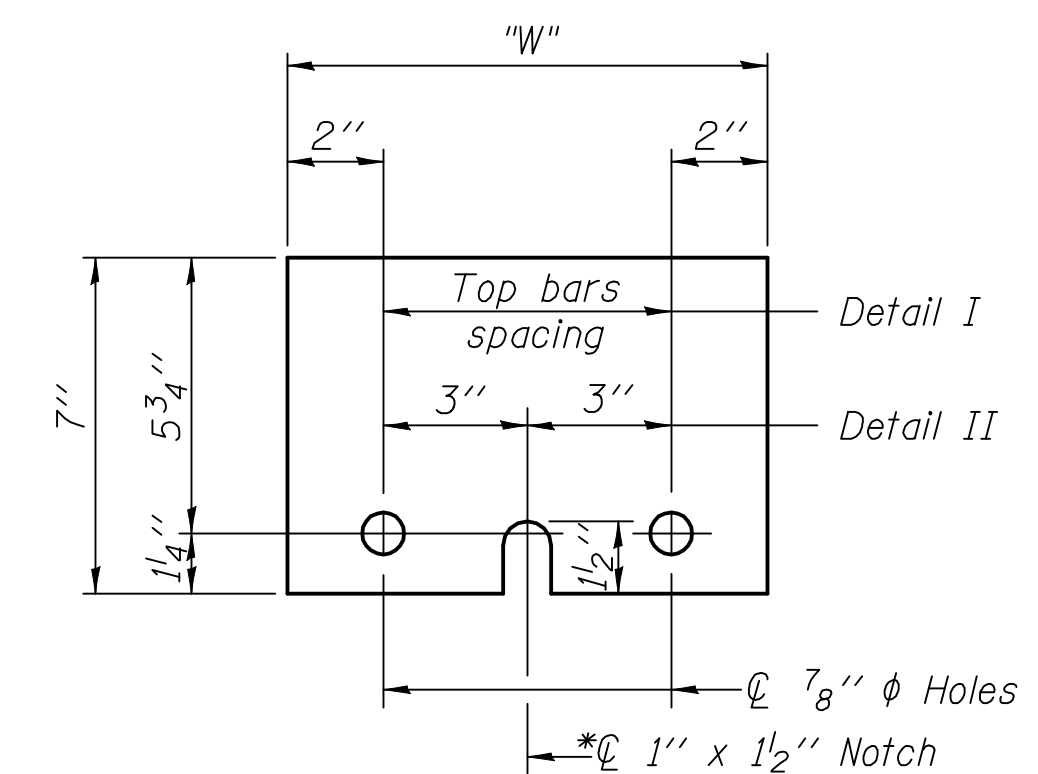
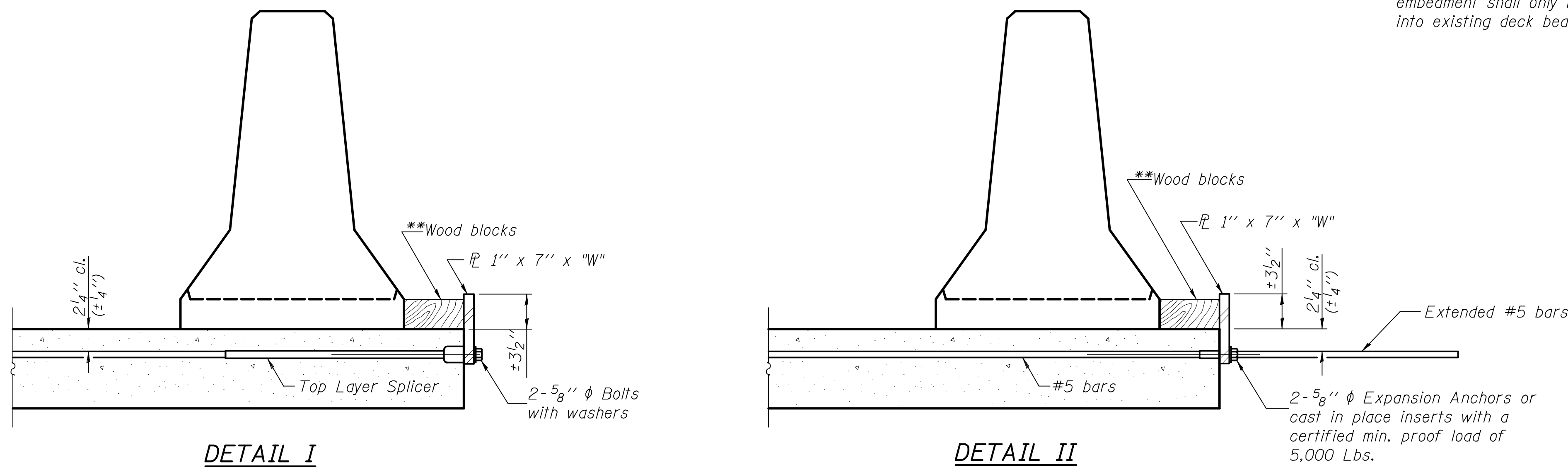
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" 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.

SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



STEEL RETAINER \bar{L} 1" x 7" x "W"

* Required only with 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.

"W" = Top bars spacing + 4"

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

R-27

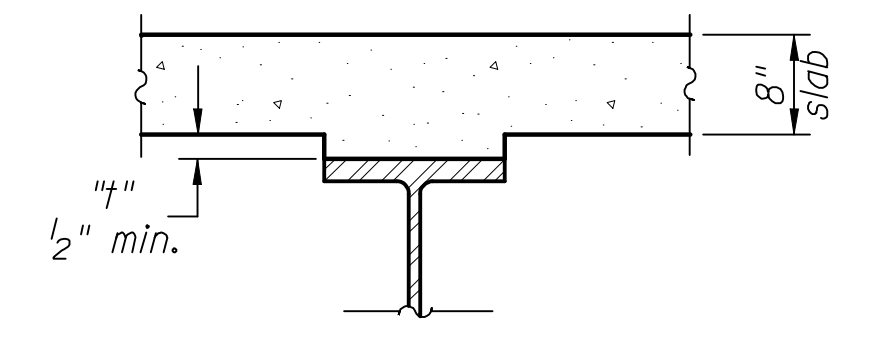
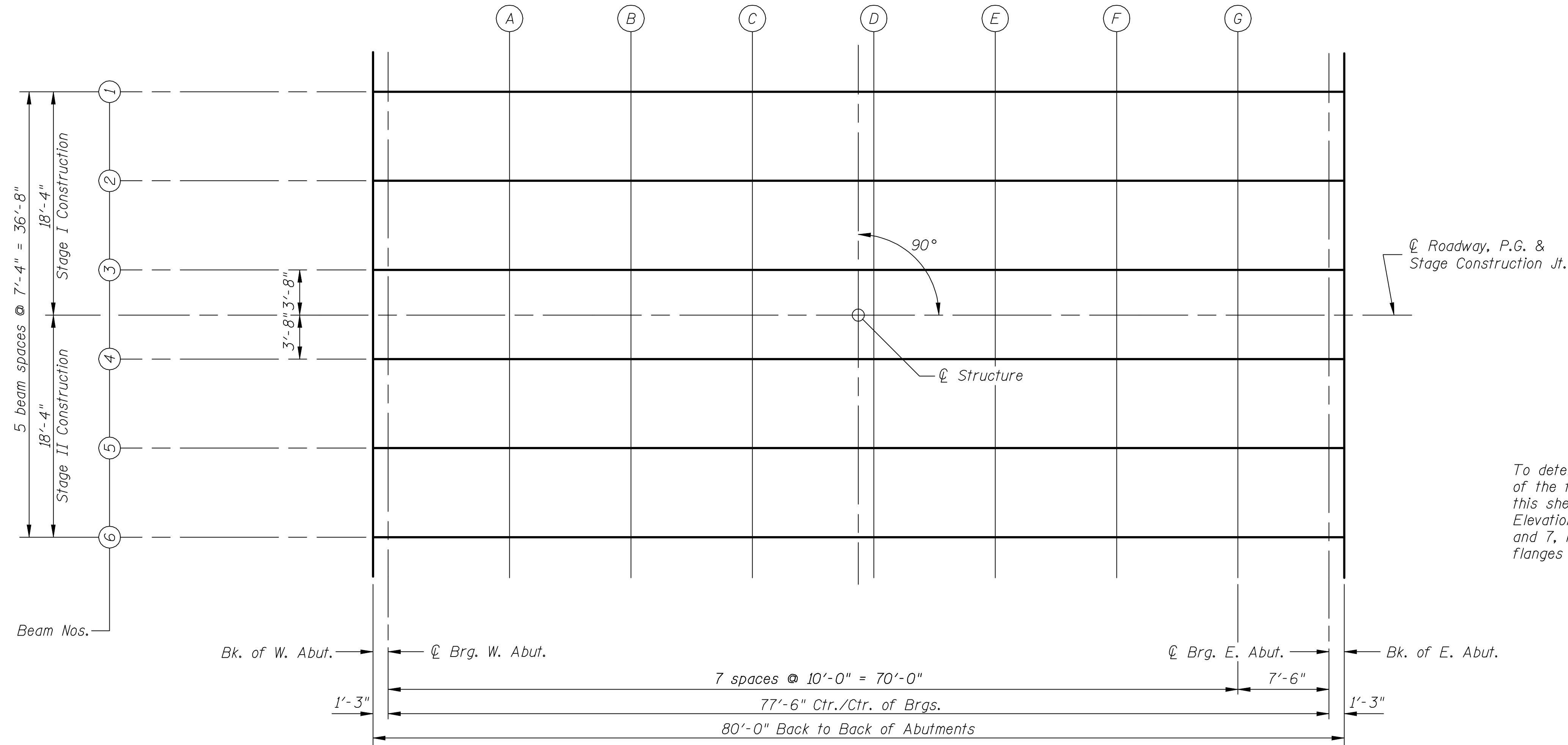
7-1-10

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO.**

SHEET NO. 4 20 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	36
S.N. 060-0341			CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

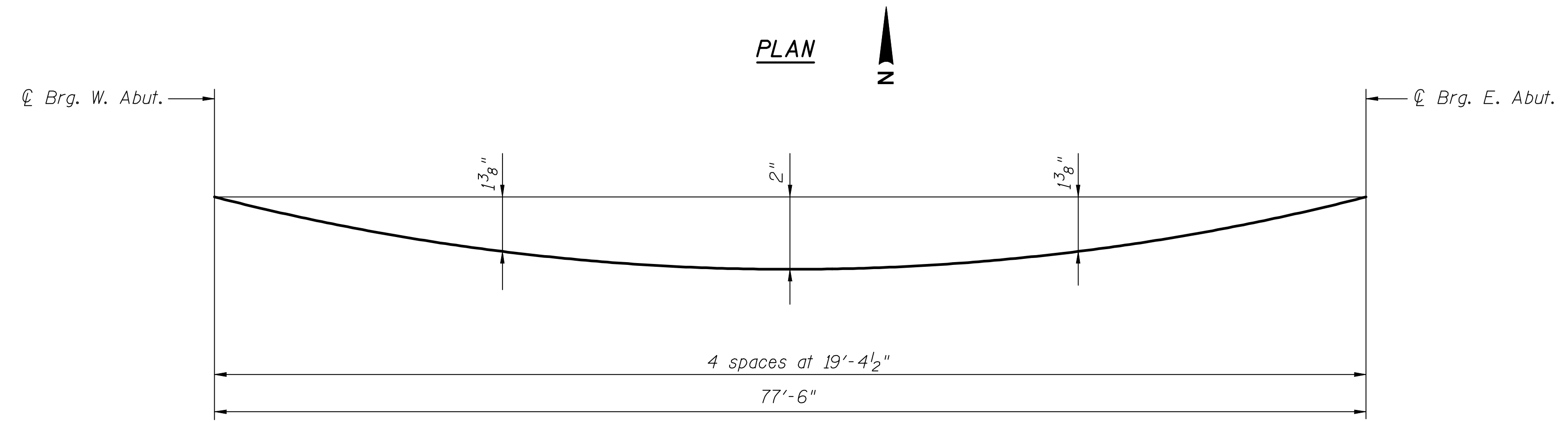
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

0600341-76A36-05-TSPL.DWG MAR. 11. 2009



To determine "t": after all steel beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on this sheet. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on sheets 6 and 7, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections shown on sheets 6 and 7.

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

TOP OF SLAB ELEVATIONS					
SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	793	40BR-1	MADISON	72	37
20 SHEETS			S.N. 060-0341		CONTRACT NO. 76A36
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT			

H.M. & G. INC. 6020.01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM #1

Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	56+05.00	-18.33	505.51	505.51
⊘ Brg. W. Abut.	56+06.25	-18.33	505.52	505.52
A	56+16.25	-18.33	505.58	505.64
B	56+26.25	-18.33	505.63	505.76
C	56+36.25	-18.33	505.69	505.85
D	56+46.25	-18.33	505.75	505.92
E	56+56.25	-18.33	505.81	505.96
F	56+66.25	-18.33	505.87	505.98
G	56+76.25	-18.33	505.93	505.98
⊘ Brg. E. Abut.	56+83.75	-18.33	505.97	505.97
Bk. E. Abut.	56+85.00	-18.33	505.98	505.98

BEAM #2

Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	56+05.00	-11.00	505.66	505.66
⊘ Brg. W. Abut.	56+06.25	-11.00	505.66	505.66
A	56+16.25	-11.00	505.72	505.79
B	56+26.25	-11.00	505.78	505.90
C	56+36.25	-11.00	505.84	506.00
D	56+46.25	-11.00	505.90	506.06
E	56+56.25	-11.00	505.96	506.11
F	56+66.25	-11.00	506.02	506.12
G	56+76.25	-11.00	506.07	506.12
⊘ Brg. E. Abut.	56+83.75	-11.00	506.12	506.12
Bk. E. Abut.	56+85.00	-11.00	506.13	506.13

BEAM #3

Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	56+05.00	-3.67	505.77	505.77
⊘ Brg. W. Abut.	56+06.25	-3.67	505.78	505.78
A	56+16.25	-3.67	505.84	505.90
B	56+26.25	-3.67	505.90	506.02
C	56+36.25	-3.67	505.95	506.11
D	56+46.25	-3.67	506.01	506.18
E	56+56.25	-3.67	506.07	506.22
F	56+66.25	-3.67	506.13	506.24
G	56+76.25	-3.67	506.19	506.24
⊘ Brg. E. Abut.	56+83.75	-3.67	506.23	506.23
Bk. E. Abut.	56+85.00	-3.67	506.24	506.24

⊘ ROADWAY, P.G. AND STAGE CONSTRUCTION JOINT

Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	56+05.00	0.00	505.83	505.83
⊘ Brg. W. Abut.	56+06.25	0.00	505.84	505.84
A	56+16.25	0.00	505.90	505.96
B	56+26.25	0.00	505.95	506.07
C	56+36.25	0.00	506.01	506.17
D	56+46.25	0.00	506.07	506.24
E	56+56.25	0.00	506.13	506.28
F	56+66.25	0.00	506.19	506.30
G	56+76.25	0.00	506.25	506.30
⊘ Brg. E. Abut.	56+83.75	0.00	506.29	506.29
Bk. E. Abut.	56+85.00	0.00	506.30	506.30

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

Notes:
1. Elevations are at Top of Concrete.
2. See Sheet 5 for elevation locations.

TOP OF SLAB ELEVATIONS

SHEET NO. 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	38
20 SHEETS	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM #4

Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	56+05.00	3.67	505.77	505.77
⊙ Brg. W. Abut.	56+06.25	3.67	505.78	505.78
A	56+16.25	3.67	505.84	505.90
B	56+26.25	3.67	505.90	506.02
C	56+36.25	3.67	505.95	506.11
D	56+46.25	3.67	506.01	506.18
E	56+56.25	3.67	506.07	506.22
F	56+66.25	3.67	506.13	506.24
G	56+76.25	3.67	506.19	506.24
⊙ Brg. E. Abut.	56+83.75	3.67	506.23	506.23
Bk. E. Abut.	56+85.00	3.67	506.24	506.24

BEAM #5

Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	56+05.00	11.00	505.66	505.66
⊙ Brg. W. Abut.	56+06.25	11.00	505.66	505.66
A	56+16.25	11.00	505.72	505.79
B	56+26.25	11.00	505.78	505.90
C	56+36.25	11.00	505.84	506.00
D	56+46.25	11.00	505.90	506.06
E	56+56.25	11.00	505.96	506.11
F	56+66.25	11.00	506.02	506.12
G	56+76.25	11.00	506.07	506.12
⊙ Brg. E. Abut.	56+83.75	11.00	506.12	506.12
Bk. E. Abut.	56+85.00	11.00	506.13	506.13

BEAM #6

Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. W. Abut.	56+05.00	18.33	505.51	505.51
⊙ Brg. W. Abut.	56+06.25	18.33	505.52	505.52
A	56+16.25	18.33	505.58	505.64
B	56+26.25	18.33	505.63	505.76
C	56+36.25	18.33	505.69	505.85
D	56+46.25	18.33	505.75	505.92
E	56+56.25	18.33	505.81	505.96
F	56+66.25	18.33	505.87	505.98
G	56+76.25	18.33	505.93	505.98
⊙ Brg. E. Abut.	56+83.75	18.33	505.97	505.97
Bk. E. Abut.	56+85.00	18.33	505.98	505.98

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

Notes:
 1. Elevations are at Top of Concrete.
 2. See Sheet 5 for elevation locations.

TOP OF SLAB ELEVATIONS

SHEET NO. 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	39
20 SHEETS	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

0600341_76A36_08_WAPP.DGN SEPT. 30, 2008

NORTH APPROACH CURB LINE

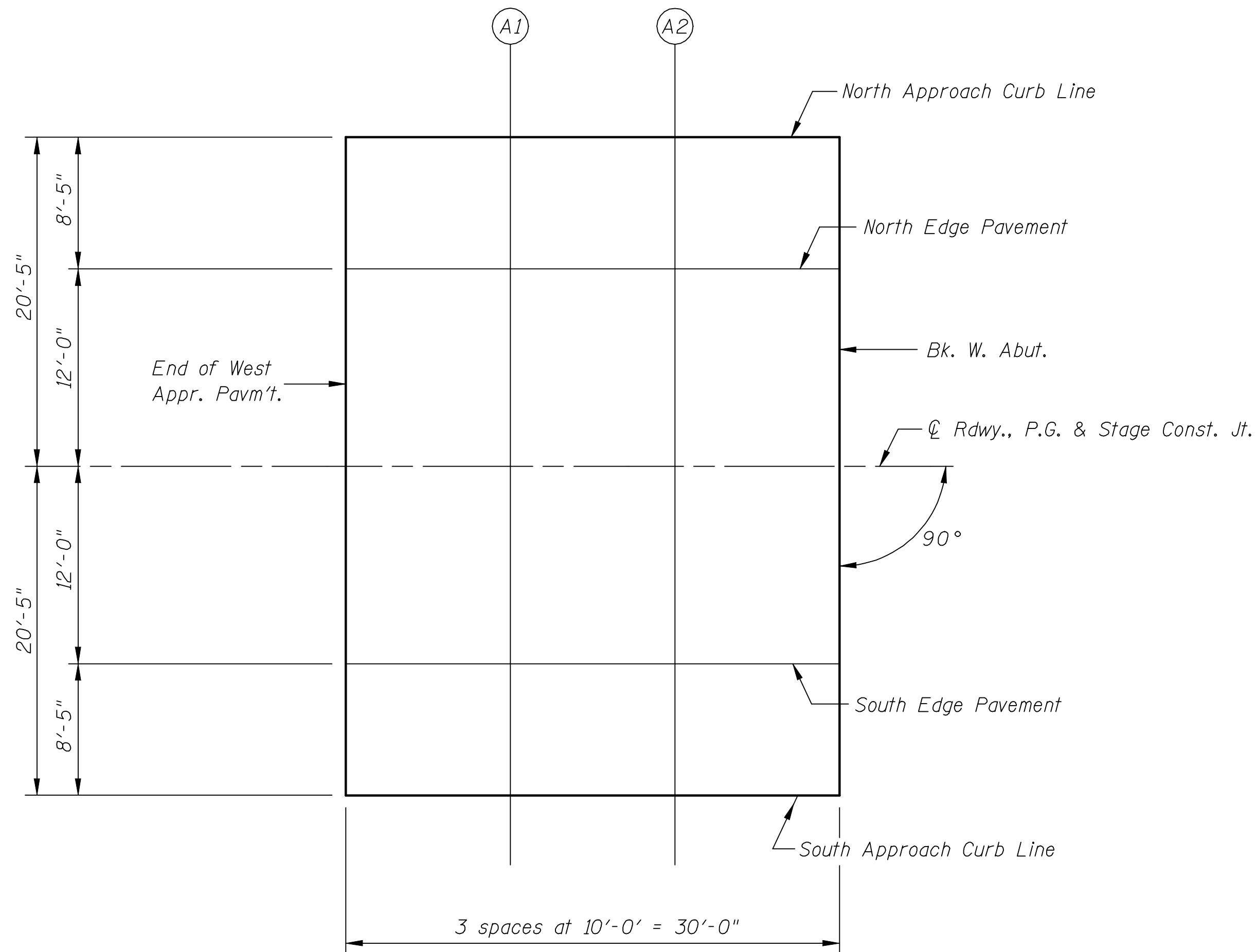
Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	55+75.00	-20.42	505.29
A1	55+85.00	-20.42	505.35
A2	55+95.00	-20.42	505.41
Bk. W. Abut.	56+05.00	-20.42	505.47

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	55+75.00	-12.00	505.47
A1	55+85.00	-12.00	505.52
A2	55+95.00	-12.00	505.58
Bk. W. Abut.	56+05.00	-12.00	505.64

☉ ROADWAY, P.G. & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	55+75.00	0.00	505.65
A1	55+85.00	0.00	505.71
A2	55+95.00	0.00	505.77
Bk. W. Abut.	56+05.00	0.00	505.83



WEST APPROACH PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	55+75.00	12.00	505.47
A1	55+85.00	12.00	505.52
A2	55+95.00	12.00	505.58
Bk. W. Abut.	56+05.00	12.00	505.64

SOUTH APPROACH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	55+75.00	20.42	505.29
A1	55+85.00	20.42	505.35
A2	55+95.00	20.42	505.41
Bk. W. Abut.	56+05.00	20.42	505.47

TOP OF WEST APPROACH
PAVEMENT ELEVATIONS

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

SHEET NO. 8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	40
20 SHEETS	S.N. 060-0341		CONTRACT NO. 76A36		
	FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

0600341_76A36_09_APP.DGN SEPT. 30, 2008

NORTH APPROACH CURB LINE

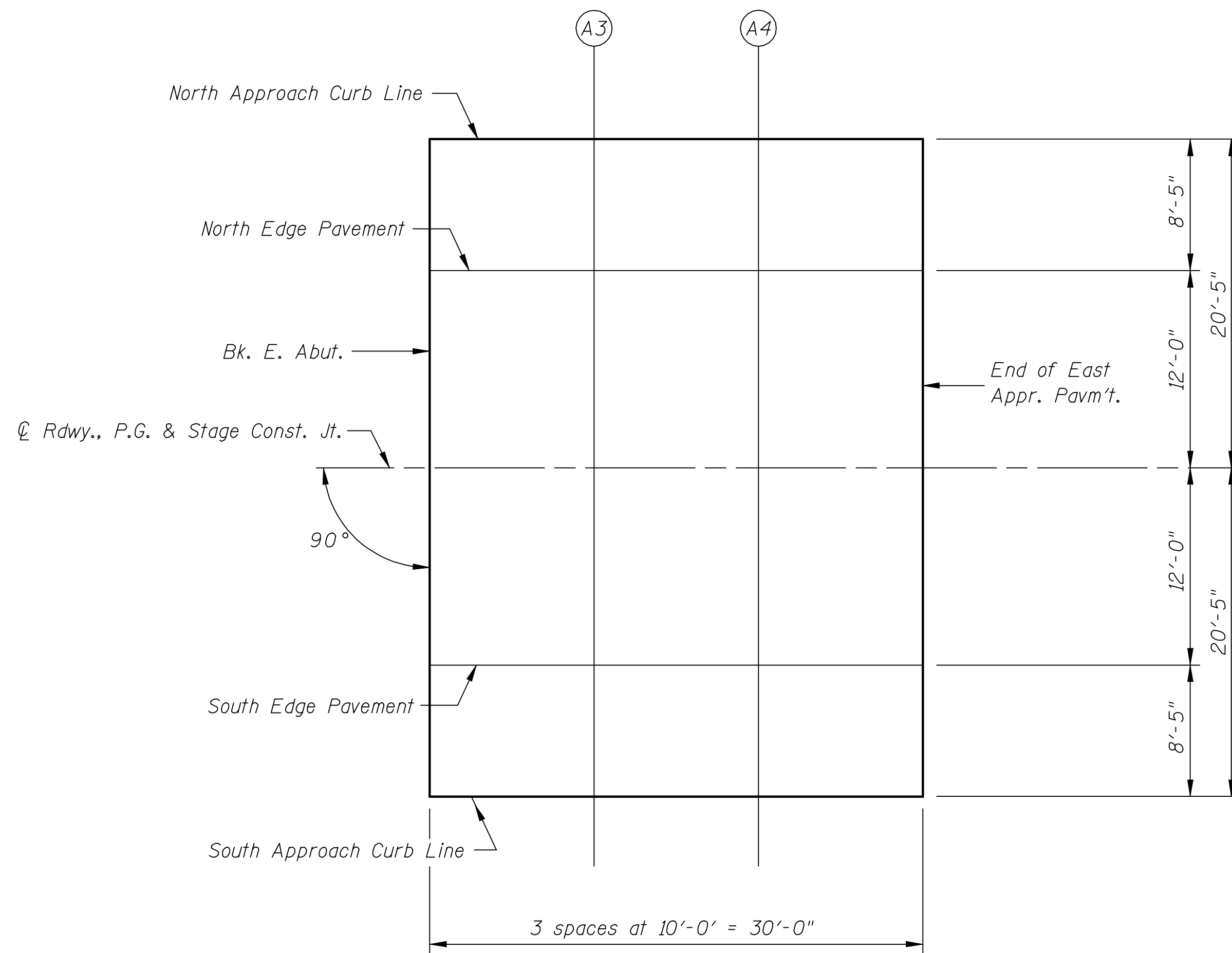
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	56+85.00	-20.42	505.93
A3	56+95.00	-20.42	505.99
A4	57+05.00	-20.42	506.05
End E. Appr. Pav't	57+15.00	-20.42	506.11

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	56+85.00	-12.00	506.11
A3	56+95.00	-12.00	506.17
A4	57+05.00	-12.00	506.23
End E. Appr. Pav't	57+15.00	-12.00	506.29

☉ ROADWAY, P.G. & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	56+85.00	0.00	506.30
A3	56+95.00	0.00	506.36
A4	57+05.00	0.00	506.41
End E. Appr. Pav't	57+15.00	0.00	506.47



EAST APPROACH PLAN



SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	56+85.00	12.00	506.11
A3	56+95.00	12.00	506.17
A4	57+05.00	12.00	506.23
End E. Appr. Pav't	57+15.00	12.00	506.29

SOUTH APPROACH CURB LINE

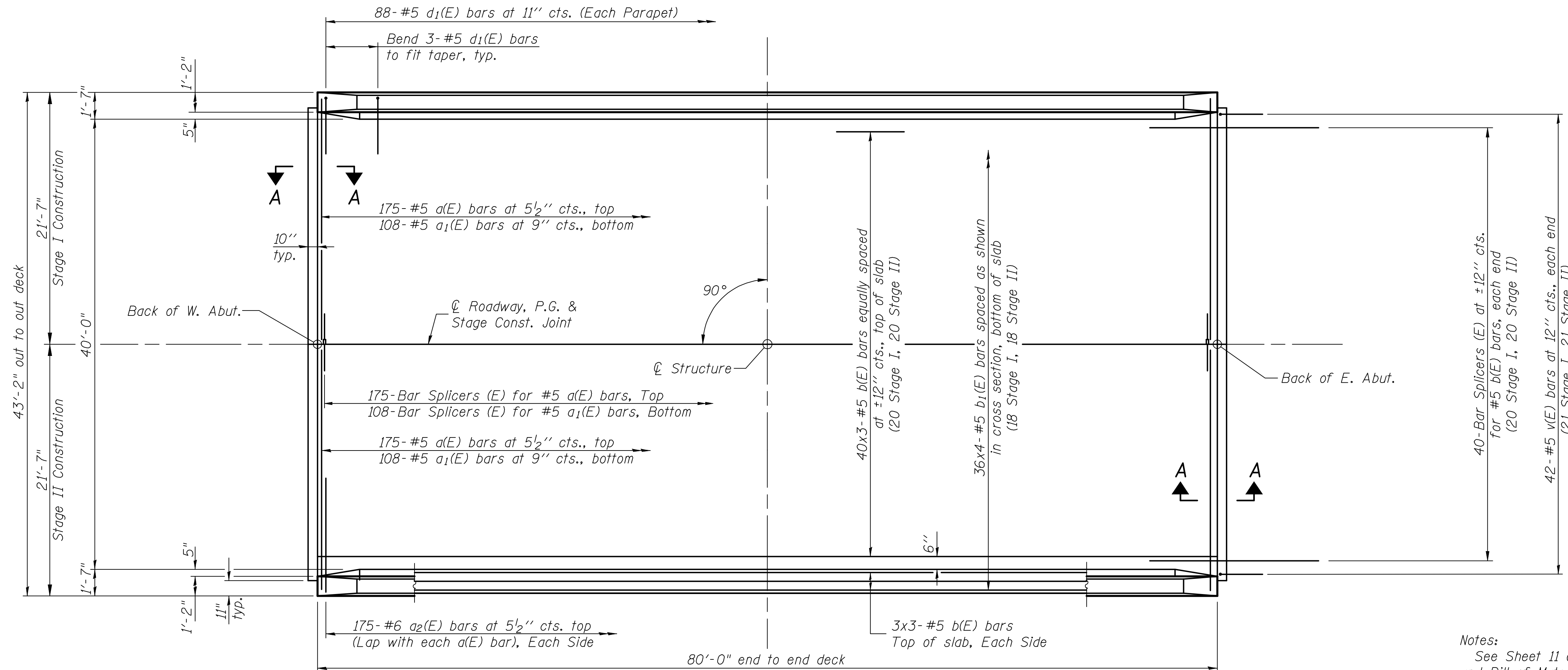
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	56+85.00	20.42	505.93
A3	56+95.00	20.42	505.99
A4	57+05.00	20.42	506.05
End E. Appr. Pav't	57+15.00	20.42	506.11

TOP OF EAST APPROACH
PAVEMENT ELEVATIONS

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

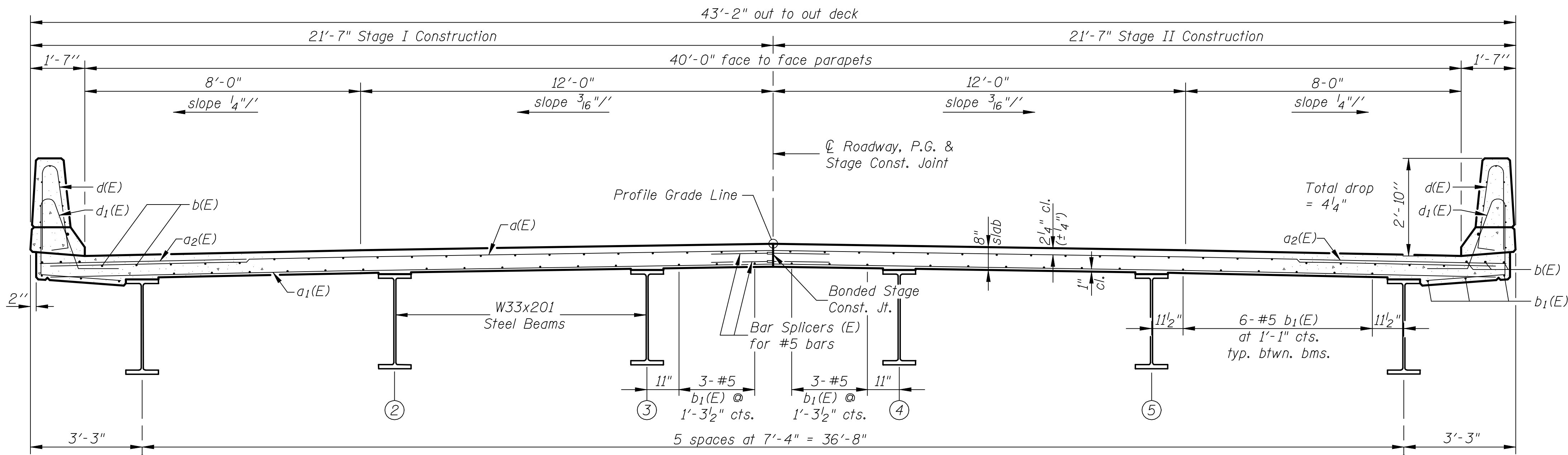
SHEET NO. 9	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	41
20 SHEETS	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MIN. BAR LAP
#5 bar = 2'-2"

Notes:
See Sheet 11 of 20 for superstructure details and Bill of Material.
Bars indicated thus 40 x 3-#5 etc. indicates 40 lines of bars with 3 lengths per line.
See Sheet 11 of 20 for parapet reinforcement.
Section A-A shown on Sheet 12 of 20.



CROSS SECTION
(Looking East)

SUPERSTRUCTURE

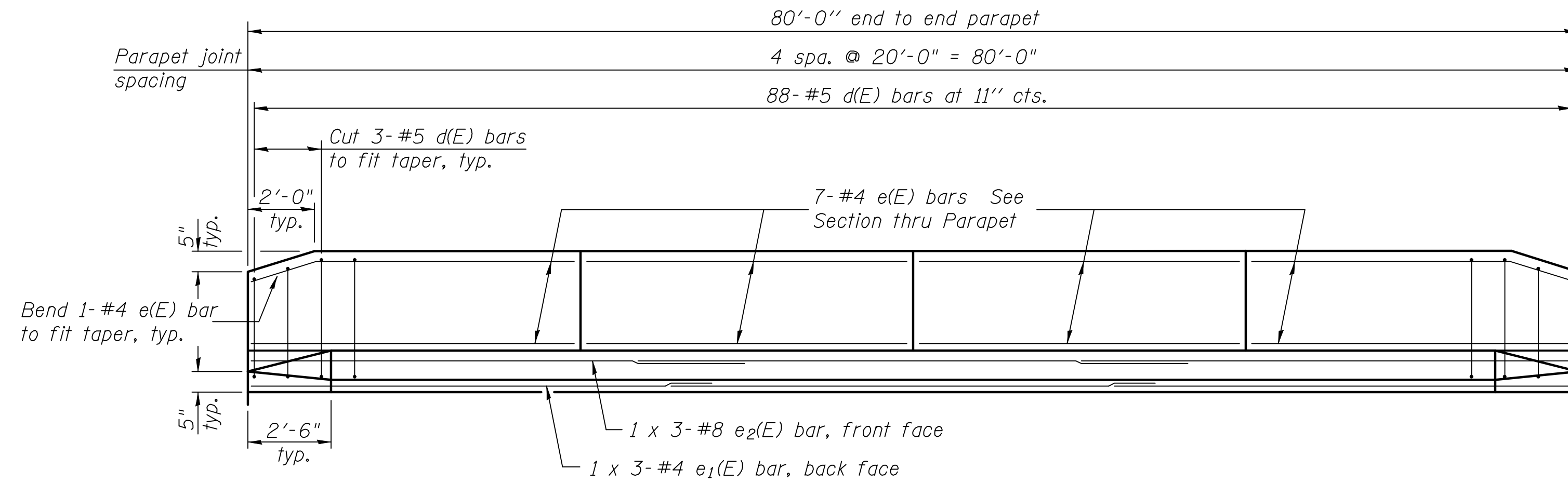
DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

SHEET NO. 10 20 SHEETS	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 42
	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

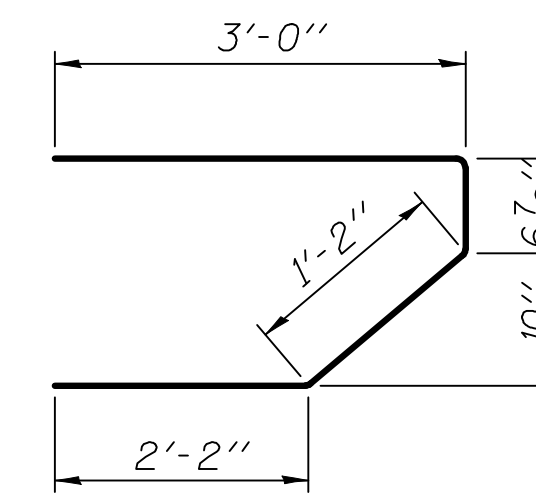
0600341_76A36_ID_SSTR.DGN MAR. 11. 2009

H.M. & G. INC. 6020.01

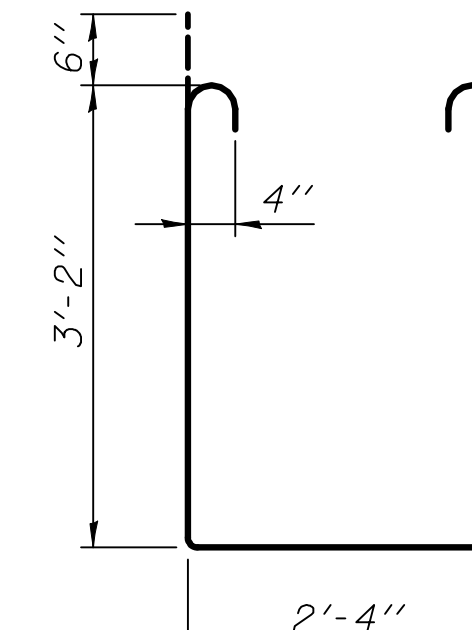
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



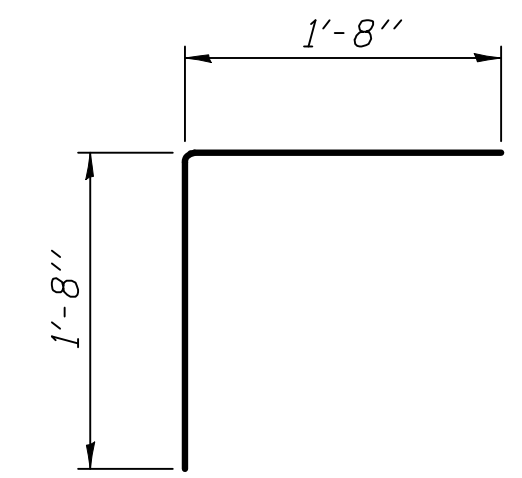
INSIDE ELEVATION OF PARAPET



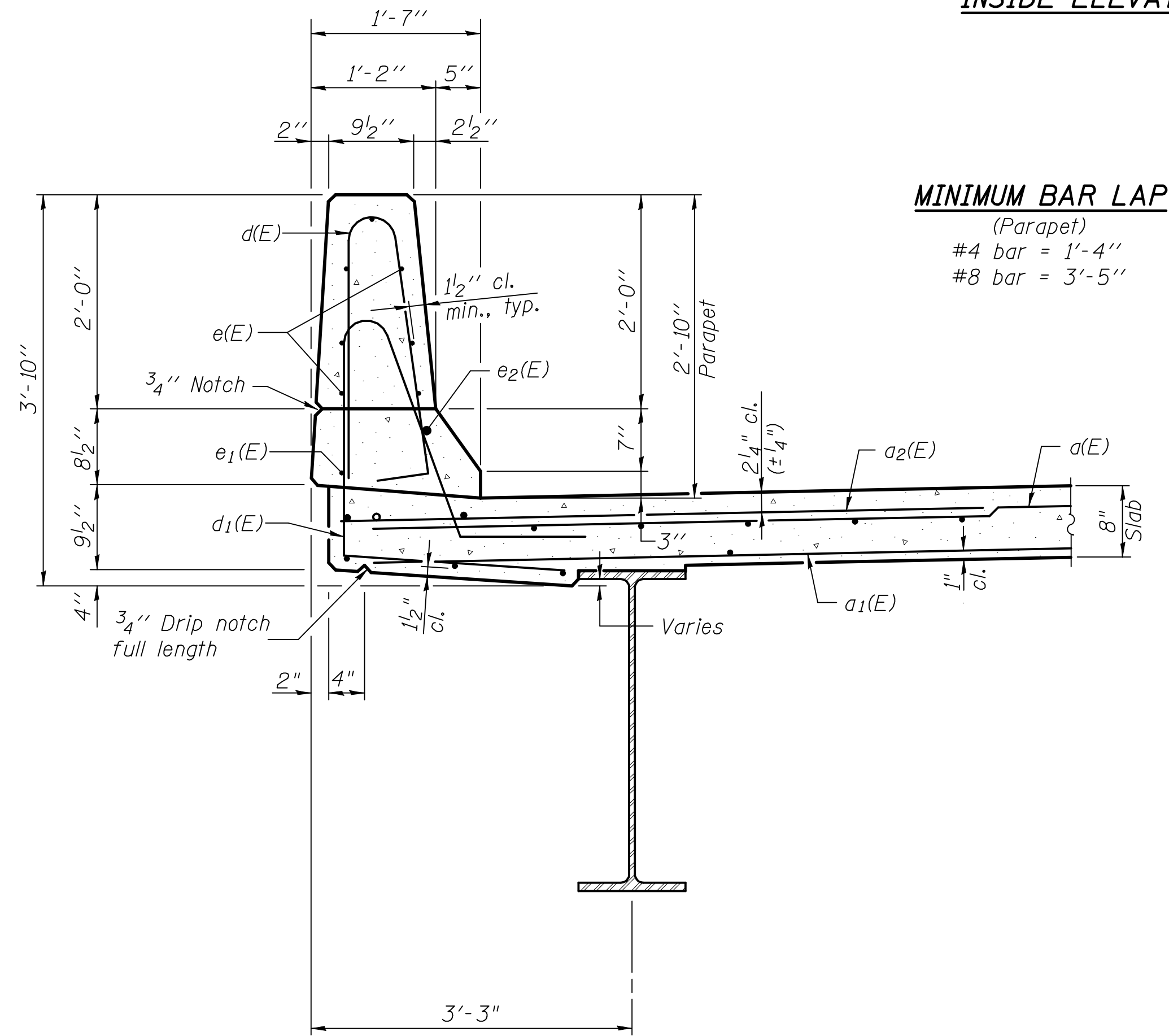
BAR s(E)



BAR s1(E)

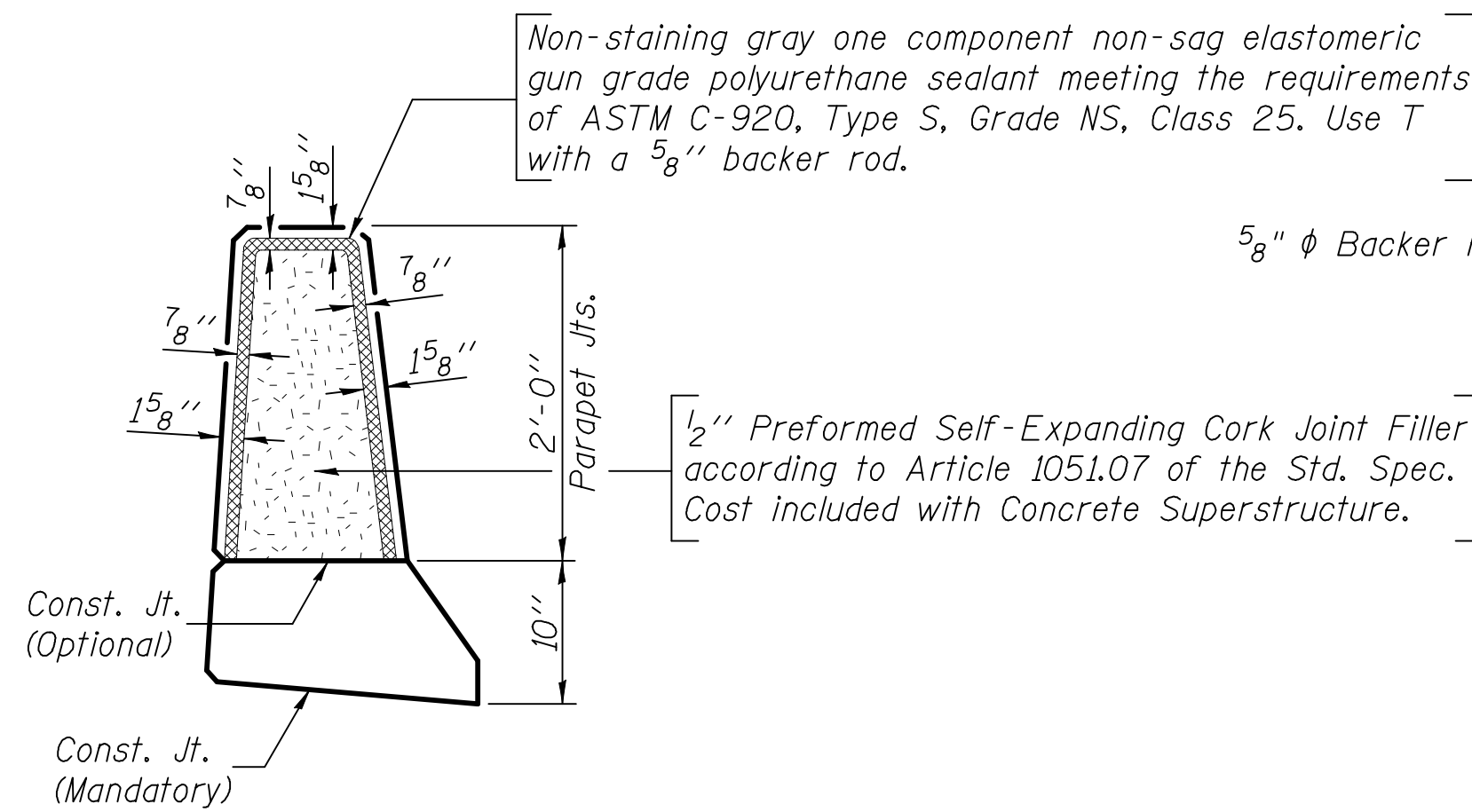


BAR v(E)

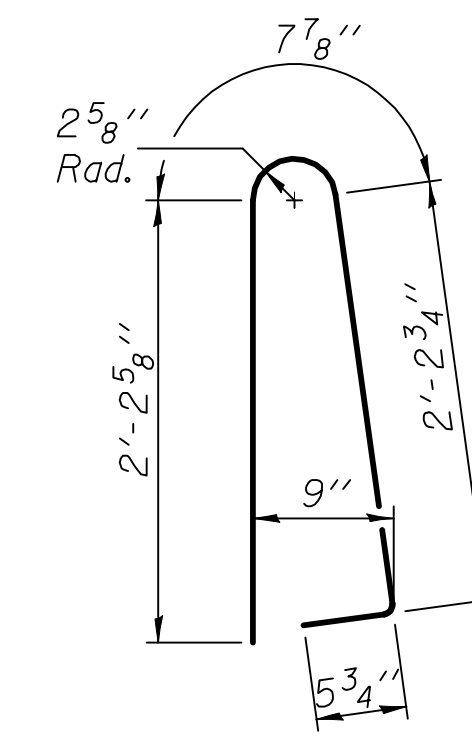


SECTION THRU PARAPET

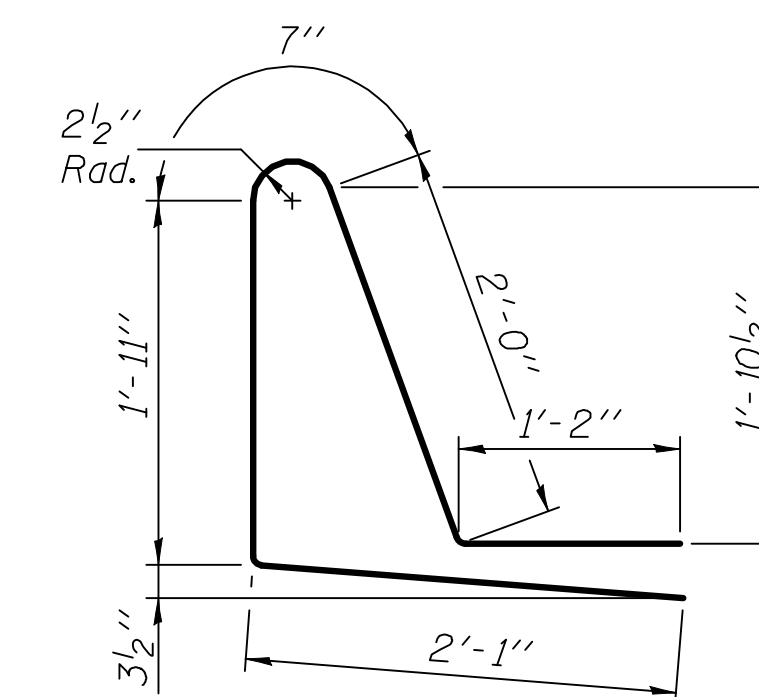
MINIMUM BAR LAP
(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"



PARAPET JOINT DETAILS



BAR d(E)



BAR d1(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	350	#5	21'-0"	—
a1(E)	216	#5	20'-6"	—
a2(E)	350	#6	6'-0"	—
b(E)	138	#5	28'-1"	—
b1(E)	144	#5	21'-7"	—
d(E)	176	#5	5'-7"	U
d1(E)	176	#5	7'-9"	U
e(E)	56	#4	19'-9"	—
e1(E)	6	#4	27'-6"	—
e2(E)	6	#8	28'-11"	—
m(E)	8	#6	20'-3"	—
m1(E)	12	#6	21'-3"	—
m2(E)	24	#6	9'-1"	—
m3(E)	8	#6	7'-0"	—
m4(E)	8	#6	3'-4"	—
s(E)	84	#5	6'-11"	U
s1(E)	84	#4	9'-8"	U
v(E)	84	#5	3'-4"	L
Reinforcement Bars, Epoxy Coated		Pound	29,010	
Concrete Superstructure		Cu. Yds.	137.1	

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

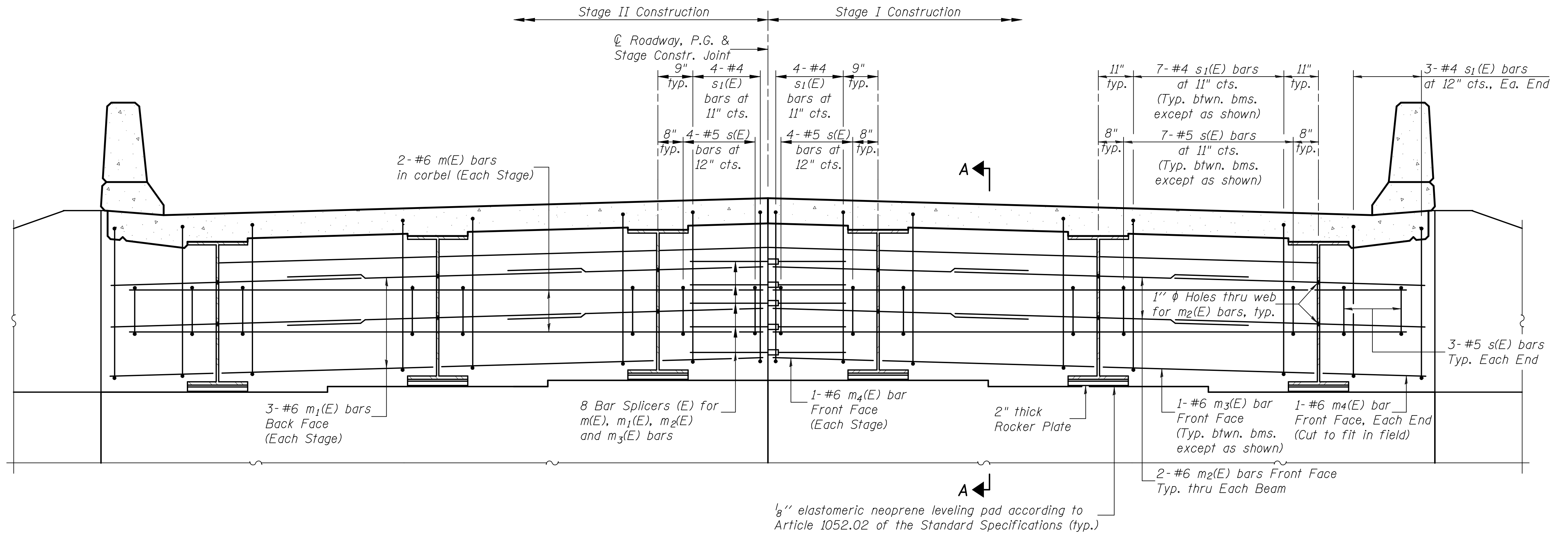
DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

SUPERSTRUCTURE DETAILS

SHEET NO. 11 20 SHEETS	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 43
	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

0600341.76A36.12_DIAP.DGN SEPT. 30, 2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 11 of 20.

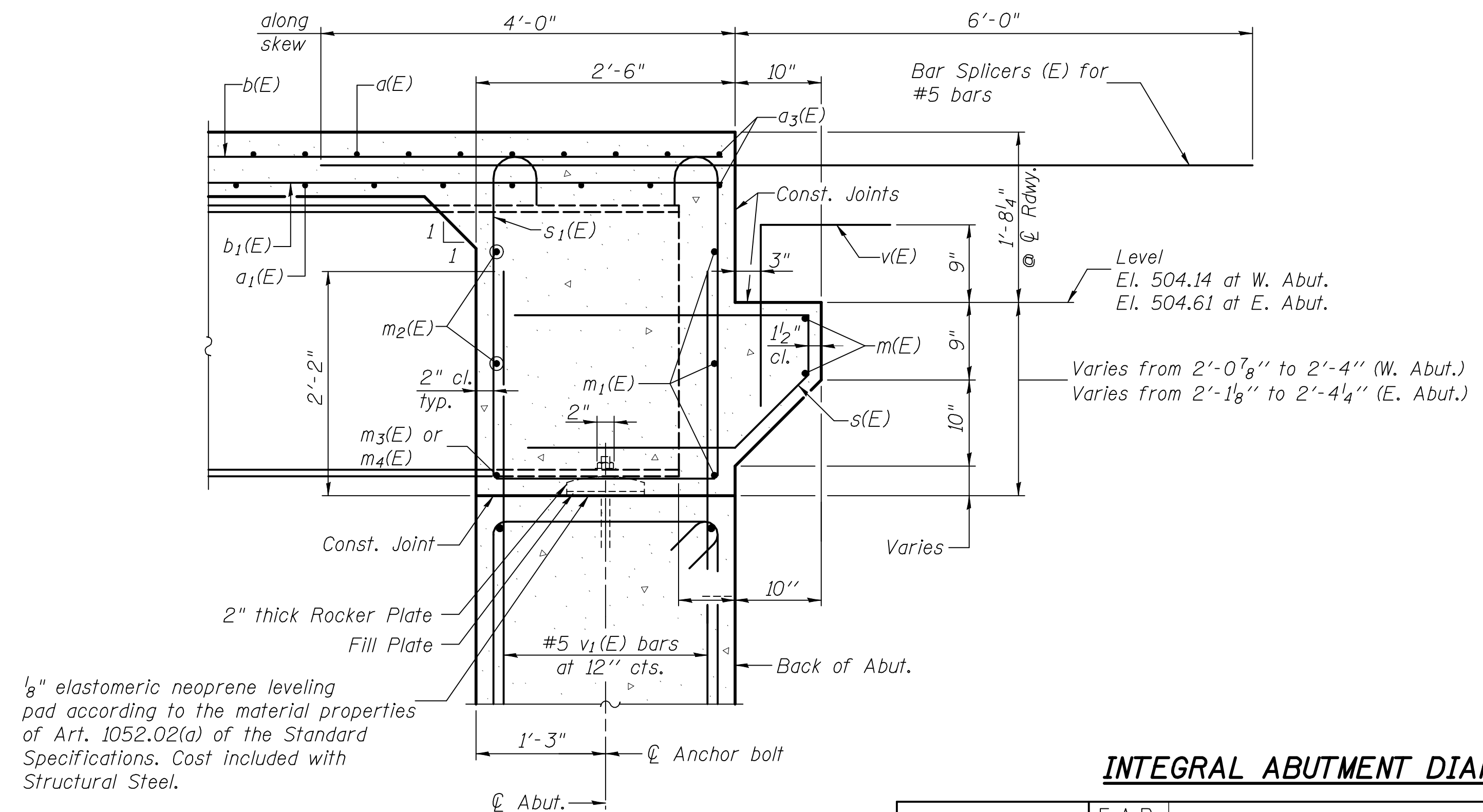
Concrete in diaphragm is included with Concrete Superstructure on sheet 11 of 20.

For details of bars s(E) & s₁(E) see sheet 11 of 20. The s(E) and s₁(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP

#6 bar = 2'-9"

DIAPHRAGM ELEVATION AT WEST ABUTMENT
(Looking West)



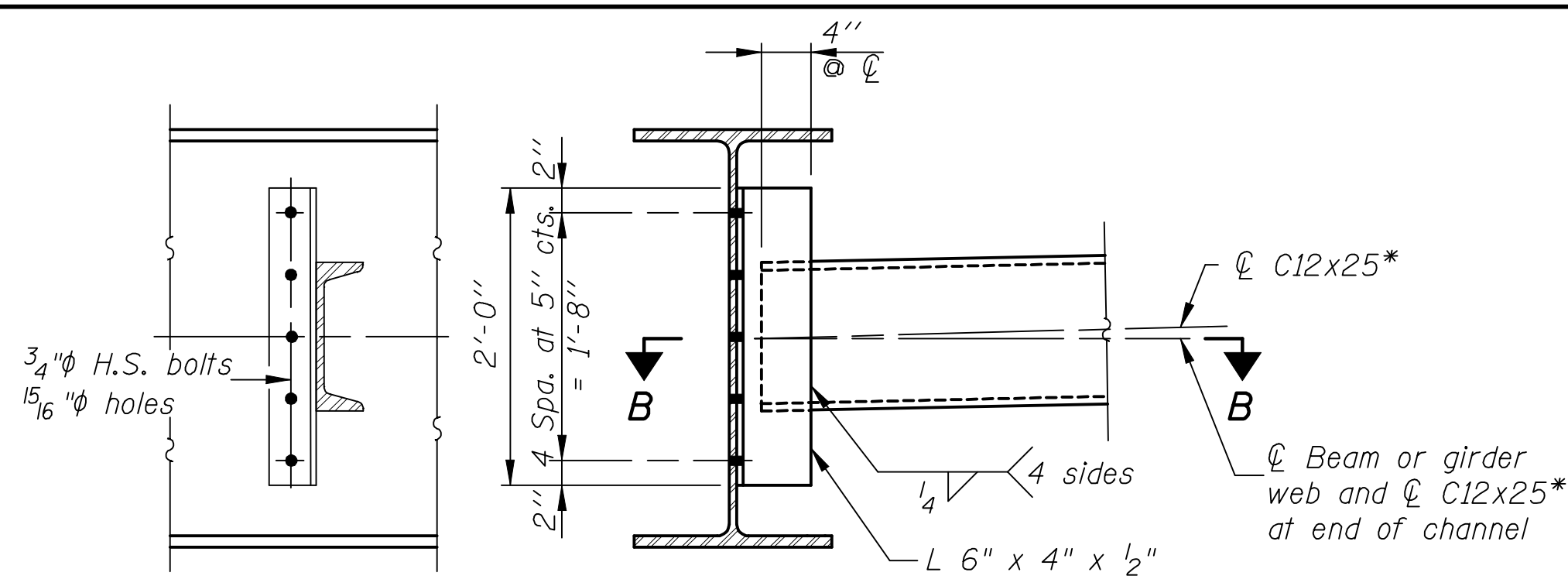
SECTION A-A

INTEGRAL ABUTMENT DIAPHRAGM DETAILS

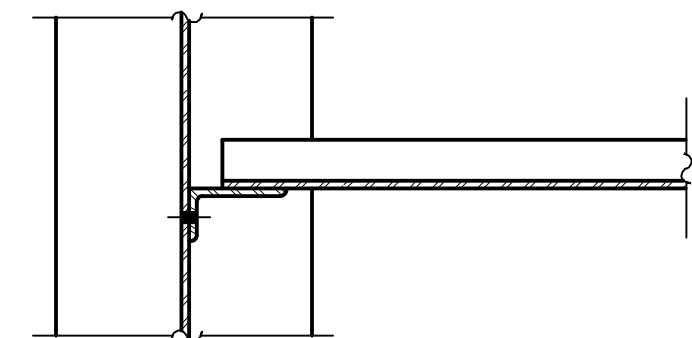
DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

SHEET NO. 12 20 SHEETS	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 44
	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

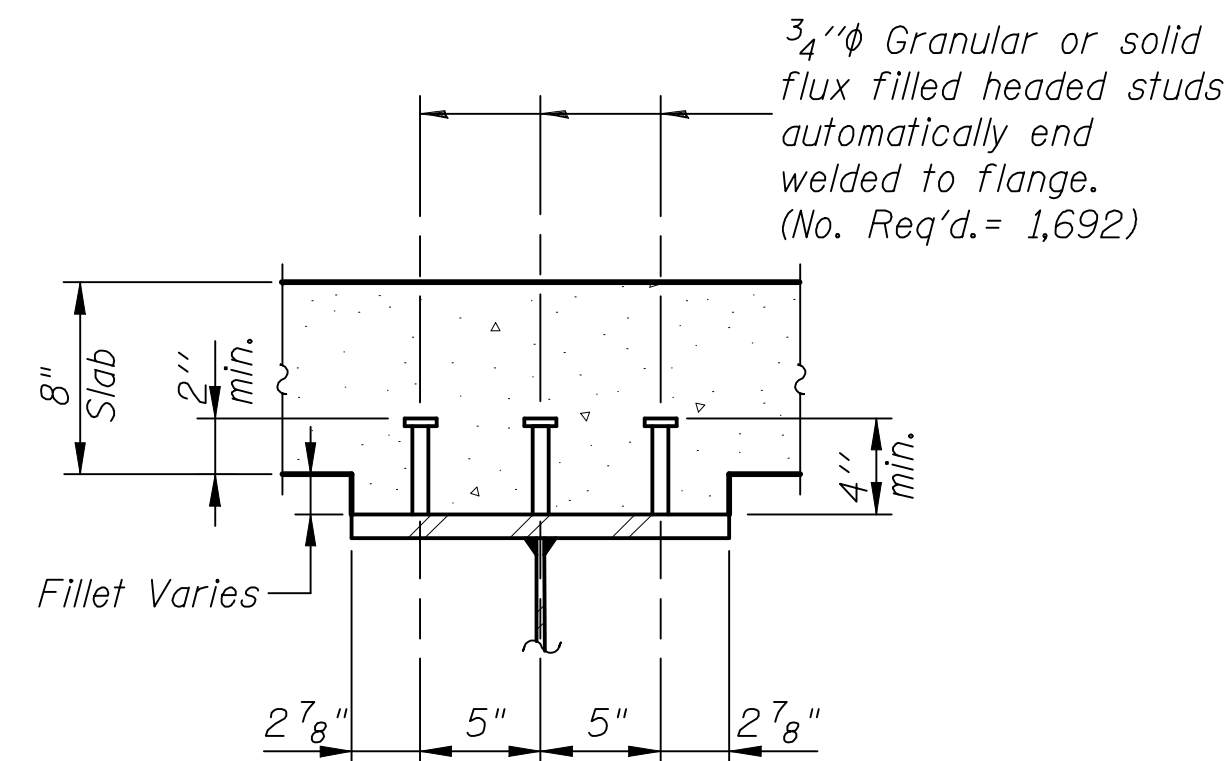
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



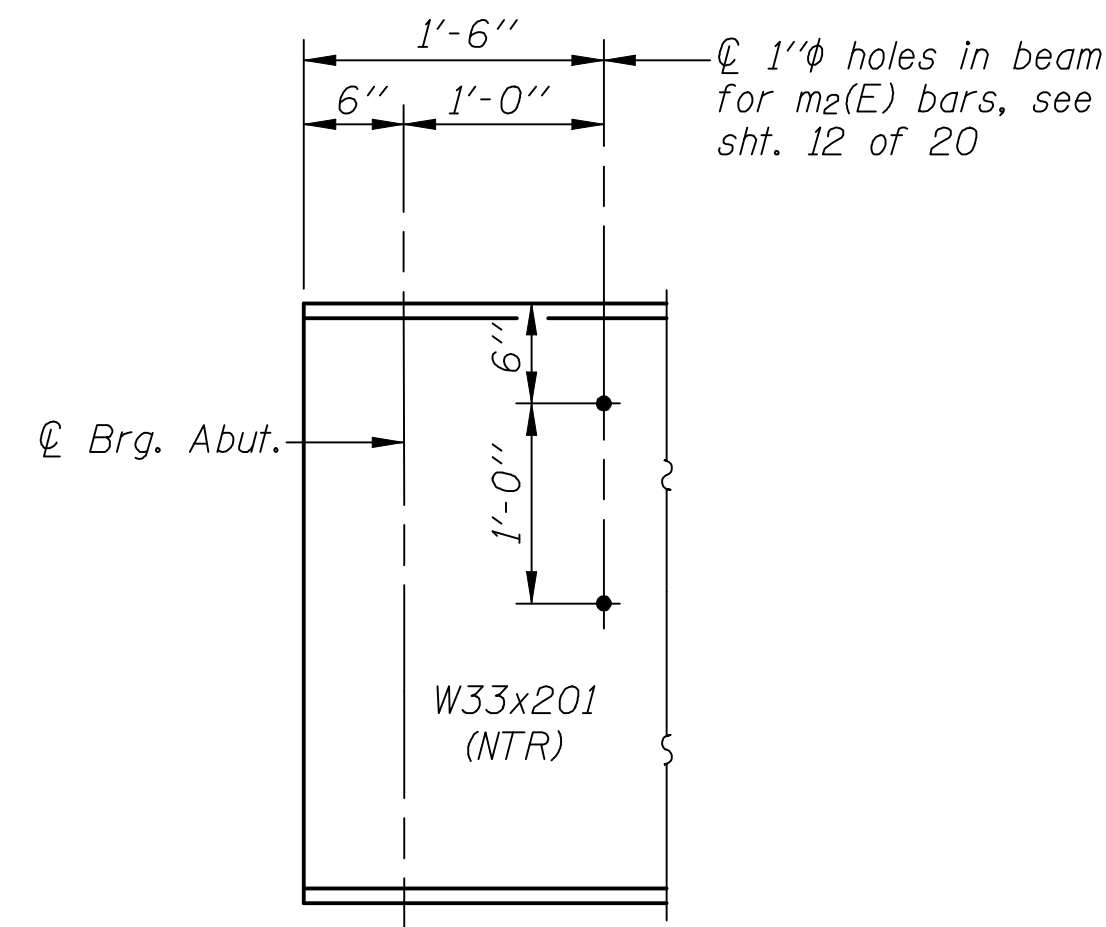
DIAPHRAGM D
(12 Required)



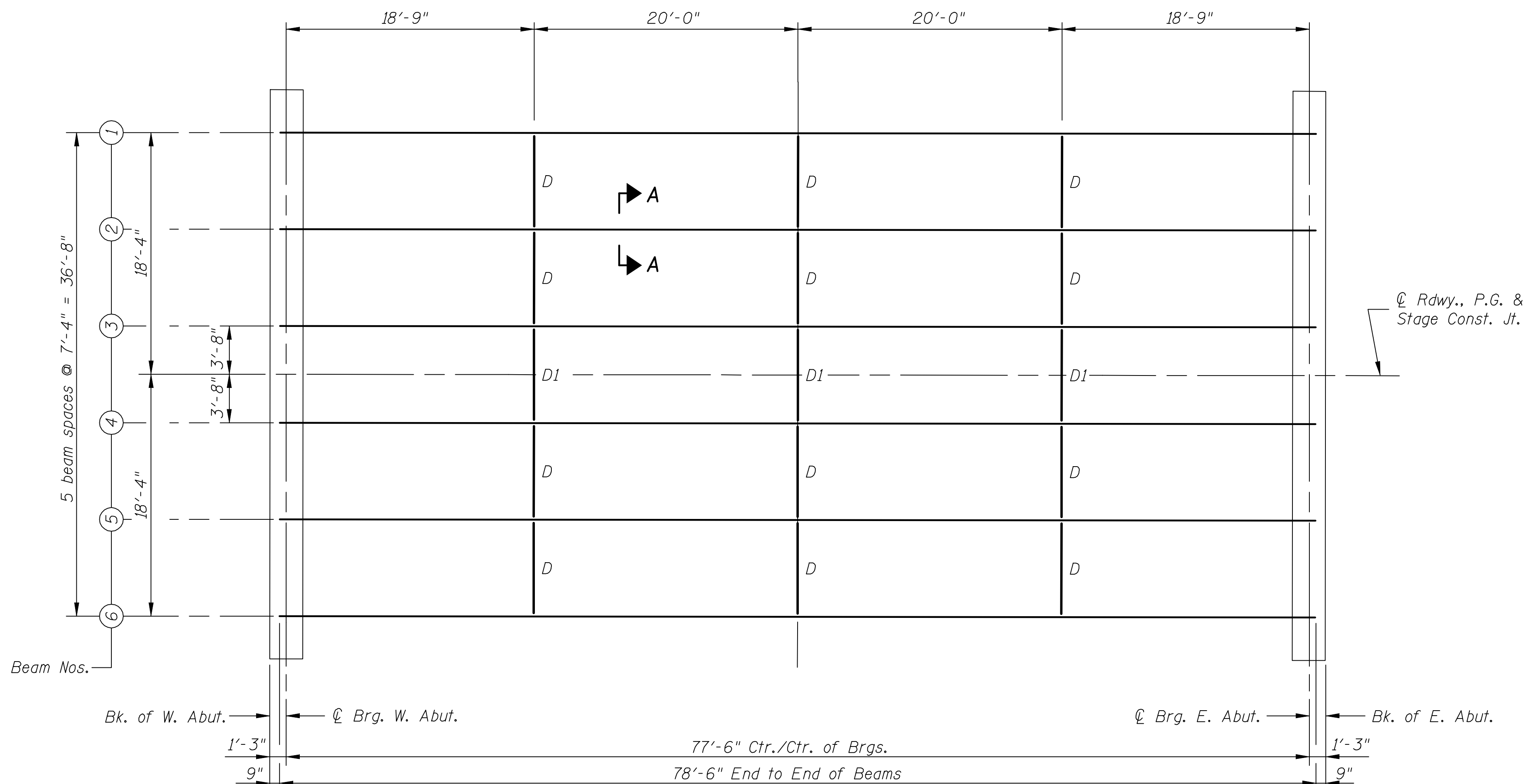
* Alternate channel C12x30 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.



SECTION A-A

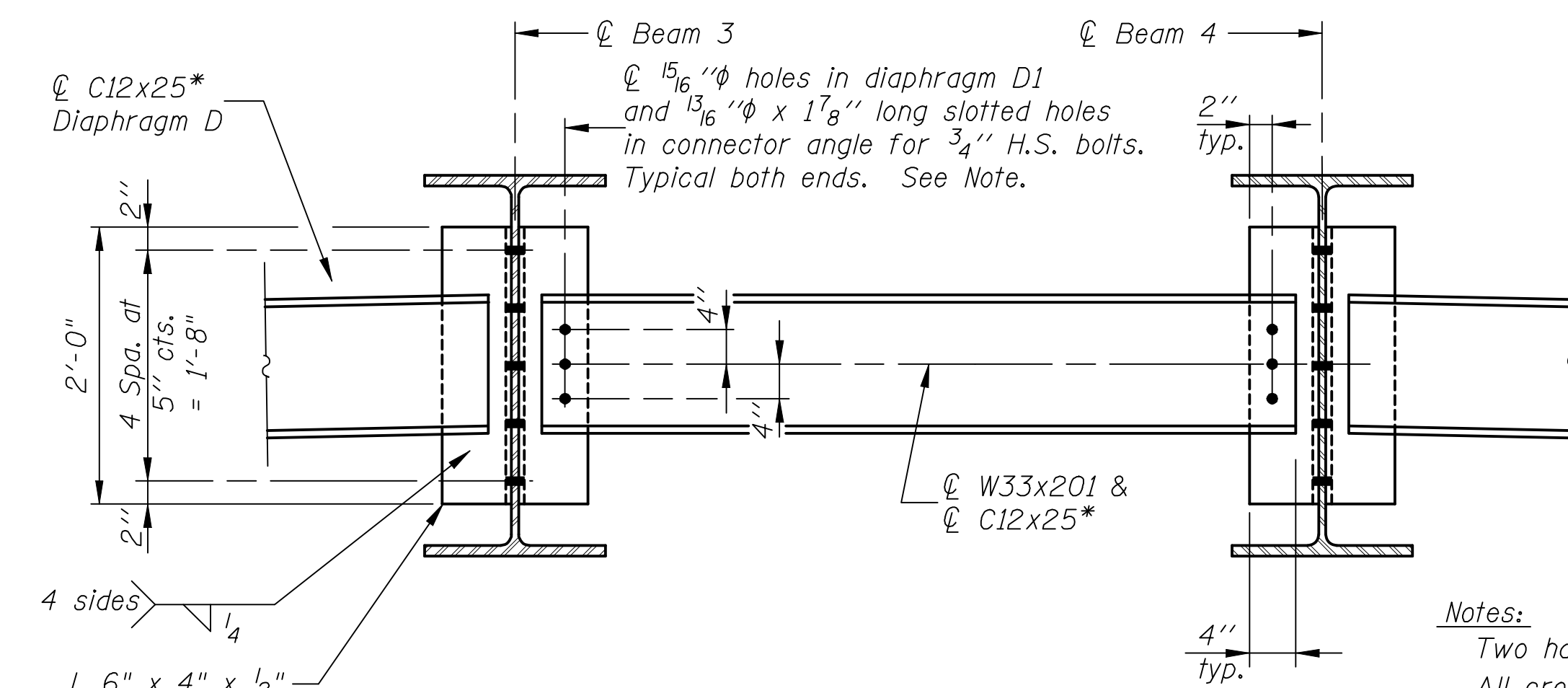


TYP. END OF BEAM ELEVATION



FRAMING PLAN

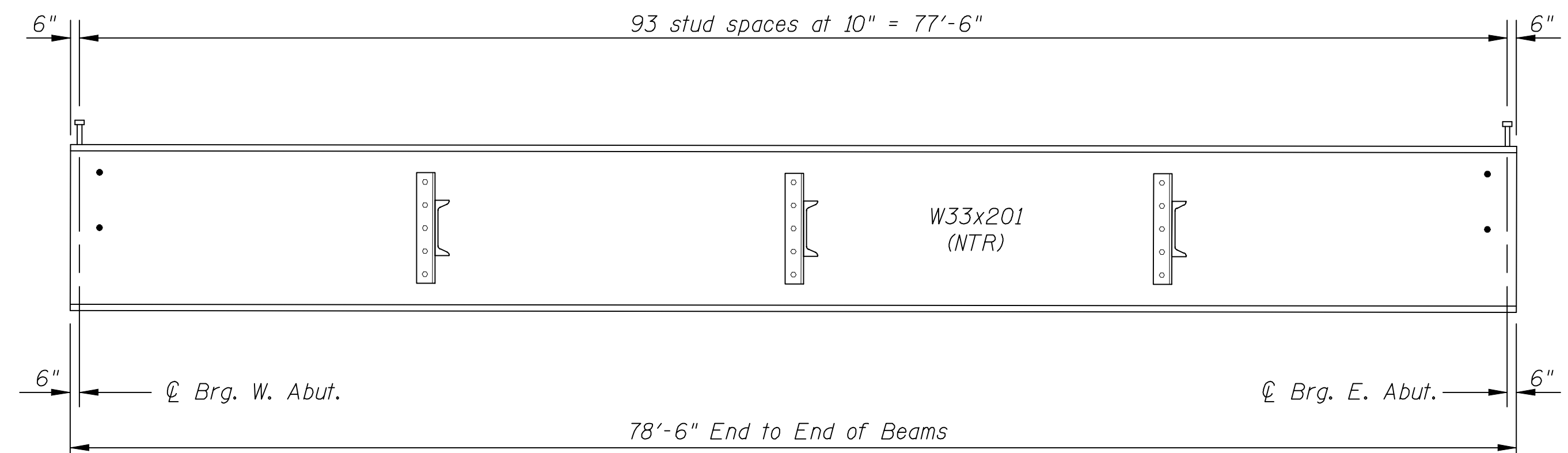
All Beams are W33x201 (NTR) and AASHTO M270, Gr. 50



DIAPHRAGM D1
(3 Required)

Notes:

- Two hardened washers required for each set of oversized holes.
- All cross frames or diaphragms between beams or girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
- Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
- All diaphragms and connecting angles shall conform to the requirements of AASHTO M270, Gr. 50.
- Bolts in slots shall be finger tight until the second stage pour is complete. Position slots so bolts start at one end with no concrete load and finish near the opposite end under deck load allowing maximum displacement without laterally stressing main members. All holes shall have appropriate hardened or plate washers.



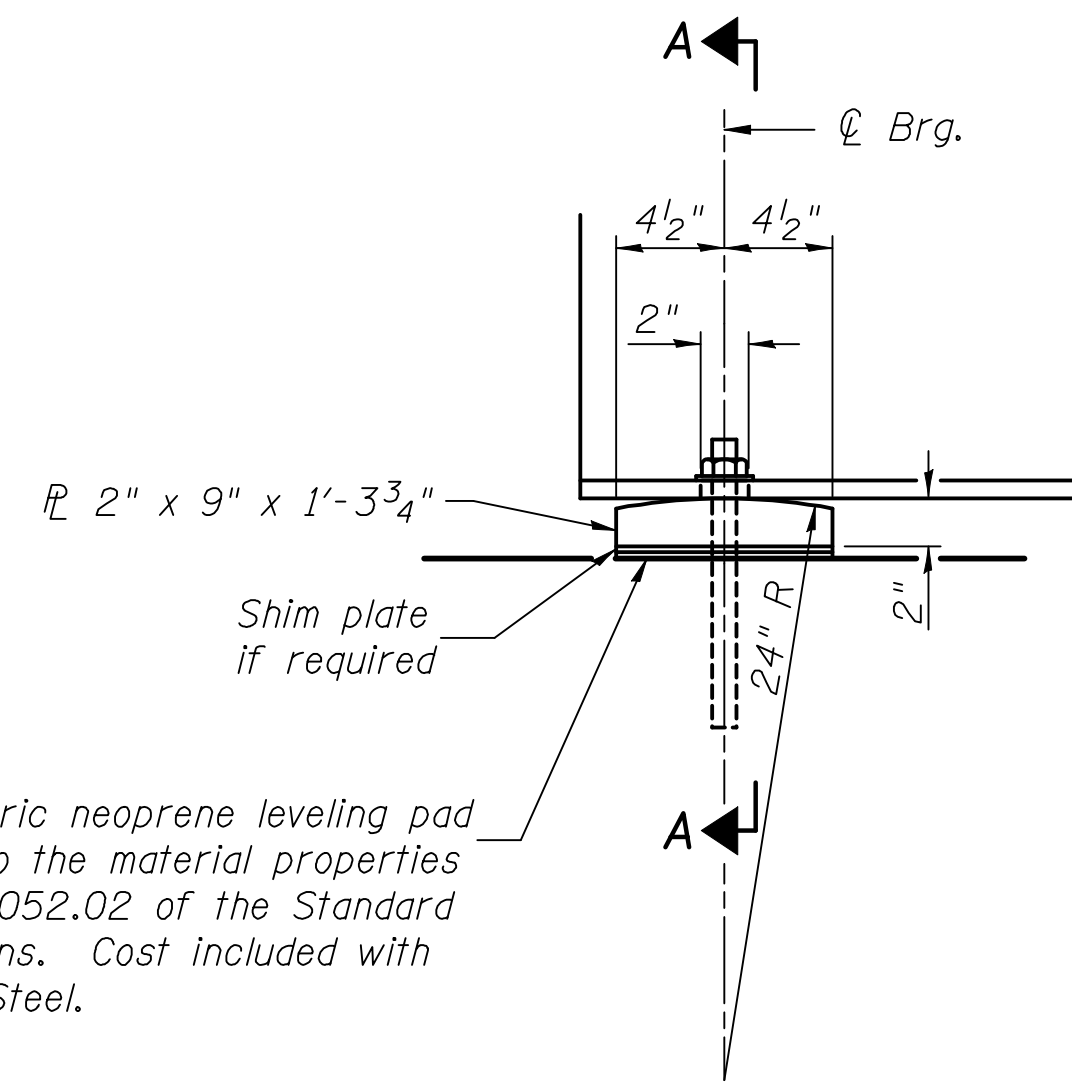
BEAM ELEVATION

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

STRUCTURAL STEEL

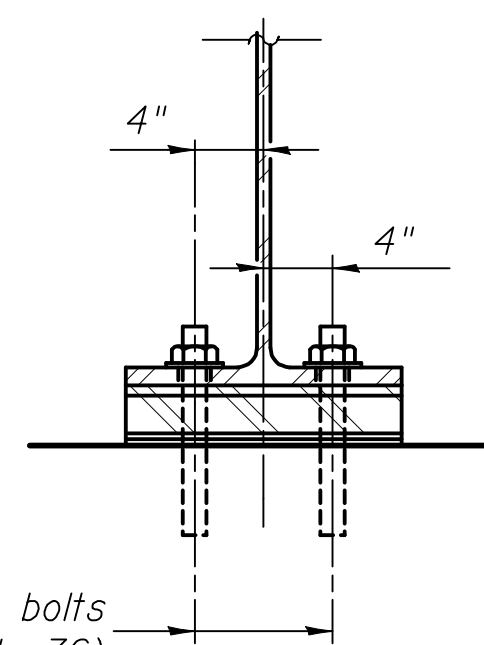
SHEET NO. 13 20 SHEETS	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 45
	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02 of the Standard Specifications. Cost included with Structural Steel.

ELEVATION AT ABUTMENT



1" x 12" anchor bolts (ASTM F1554, Grade 36) with 2 1/4" x 2 1/4" x 5/16" plate washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2" holes in bearing plate. The Contractor has the option of cast-in-place or drilled installation.

SECTION A-A

TOP OF BEAM ELEVATIONS

(For Fabrication Only)

Beam No.	W. Abut.	E. Abut.
1	504.79	505.24
2	504.94	505.39
3	505.05	505.51
4	505.05	505.51
5	504.94	505.39
6	504.79	505.24

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

All bearing plates and pintles shall conform to the requirements of AASHTO M 270, Grade 50.

FIXED BEARING

INTERIOR GIRDER MOMENT TABLE		
0.5 Span		
I_s	(in ⁴)	11,500
$I_c(n)$	(in ⁴)	27,248
$I_c(3n)$	(in ⁴)	19,878
S_s	(in ³)	683
$S_c(n)$	(in ³)	940
$S_c(3n)$	(in ³)	850
DC1	(k/')	0.99
M _{DC1}	(k)	743
DC2	(k/')	0.15
M _{DC2}	(k)	113
DW	(k/')	0.33
M _{DW}	(k)	250
M _{LE + IM}	(k)	1,218
M _u (Strength I)	(k)	3,577
$\phi_f M_n$	(k)	4,440
f_s DC1	(ksi)	13.1
f_s DC2	(ksi)	1.6
f_s DW	(ksi)	3.5
f_s 1.3(L+IM)	(ksi)	20.2
f_s (Service II)	(ksi)	38.4
f_s (Total)(Strength I)	(ksi)	---
V _f	(k)	25.8

INTERIOR GIRDER REACTION TABLE		
HL93 Loading		
		Abutment
R _{DC1}	(k)	38.4
R _{DC2}	(k)	5.8
R _{DW}	(k)	12.9
R _{LE + IM}	(k)	83.6
R _{Total}	(k)	140.7

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in⁴ and in³).

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

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

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

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

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

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

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

M_u (Strength I): Factored design moment (kip-ft.).

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

f_s (Service II): Sum of stresses as computed from the moments below (ksi).

f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).

V_f: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1" ϕ	Each	24

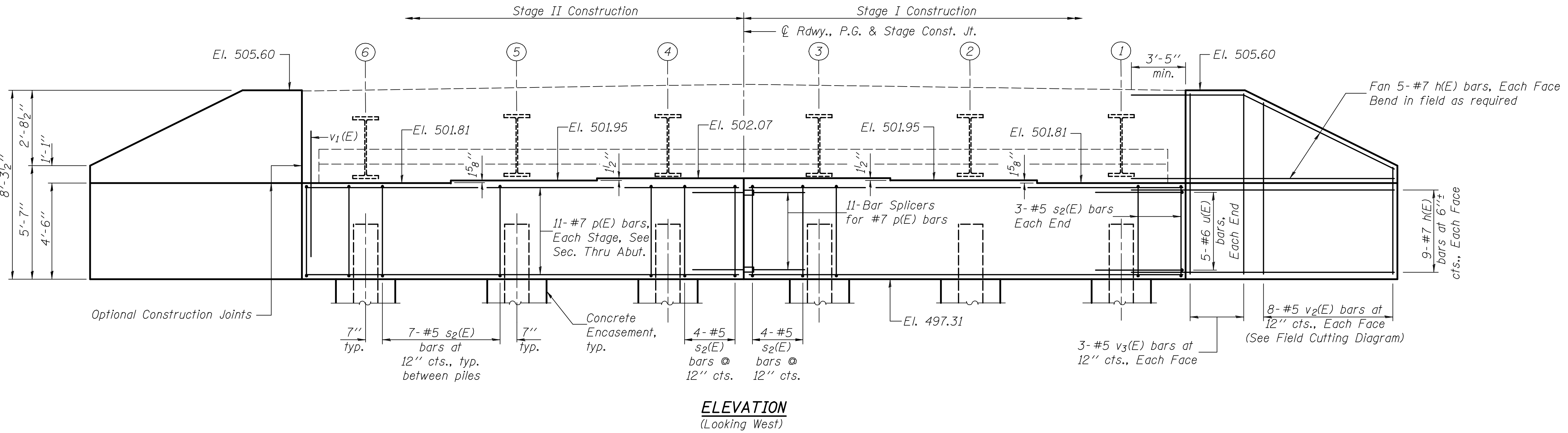
STEEL DETAILS

SHEET NO. 14	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	46
20 SHEETS	S.N. 060-0341		CONTRACT NO. 76A36		
	FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT				

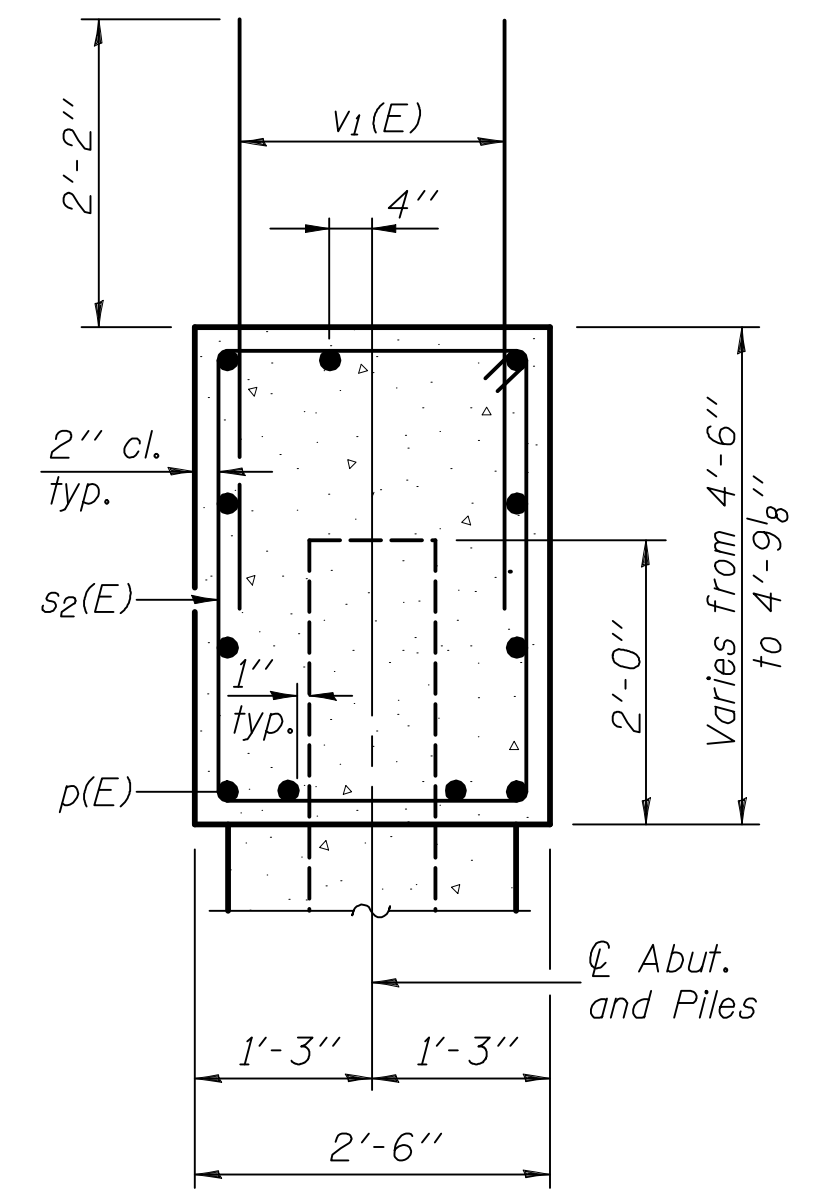
0600341.76A.36.15.WABT.DGN FEB. 21, 2013

Note: Four steps monolithically with cap.

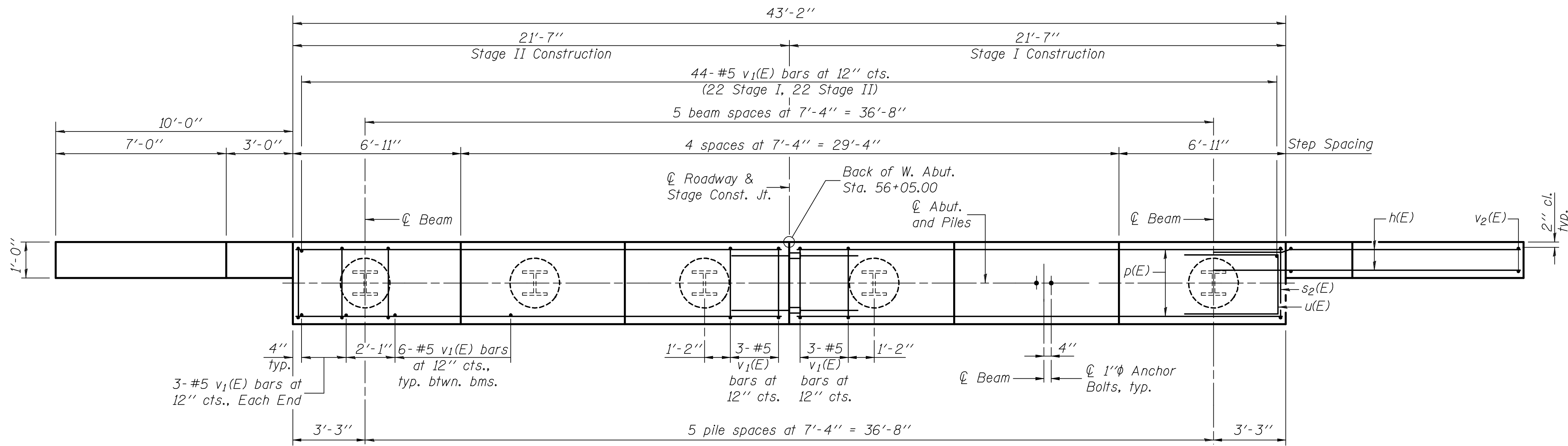
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION
(Looking West)



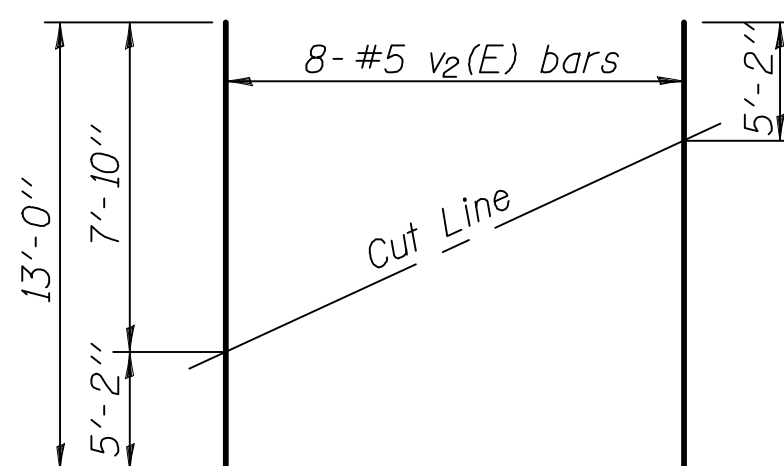
SEC. THRU ABUT.



PLAN N

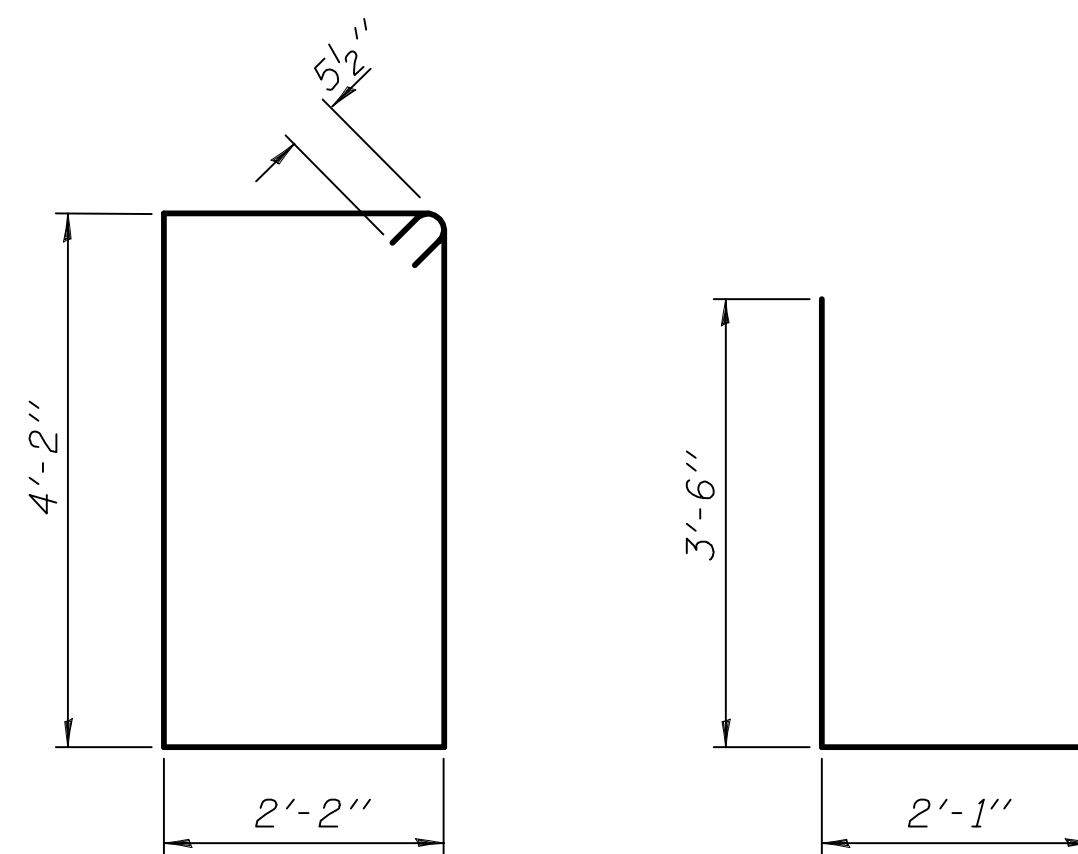
PILE DATA

Type: HP 14x73
Nominal Required Bearing: 578 k
Factored Resistance Available: 289 k
Est. Length: 42 ft.
No. Production Piles: 6
No. Test Piles: 0



FIELD CUTTING DIAGRAM

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



BAR s2(E)

BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#7	14'-0"	—
p(E)	22	#7	21'-3"	—
s2(E)	42	#5	13'-7"	□
u(E)	10	#6	9'-1"	—
v1(E)	80	#5	4'-4"	—
v2(E)	16	#5	13'-0"	—
v3(E)	12	#5	7'-10"	—
Structure Excavation		Cu. Yd.	131	
Concrete Structures		Cu. Yd.	24.0	
Reinforcement Bars, Epoxy Coated		Pound	3,970	
Bar Splicers (E)		Each	11	
Furnishing Steel Piles HP 14x73		Foot	252	
Driving Piles		Foot	252	
Concrete Encasement		Cu. Yd.	3.3	

For details of Bar Splicers, see sheet 17 of 20.
For details of piles and Concrete Encasement, see sheet 18 of 20.

WEST ABUTMENT

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

AI-O 5-16-08

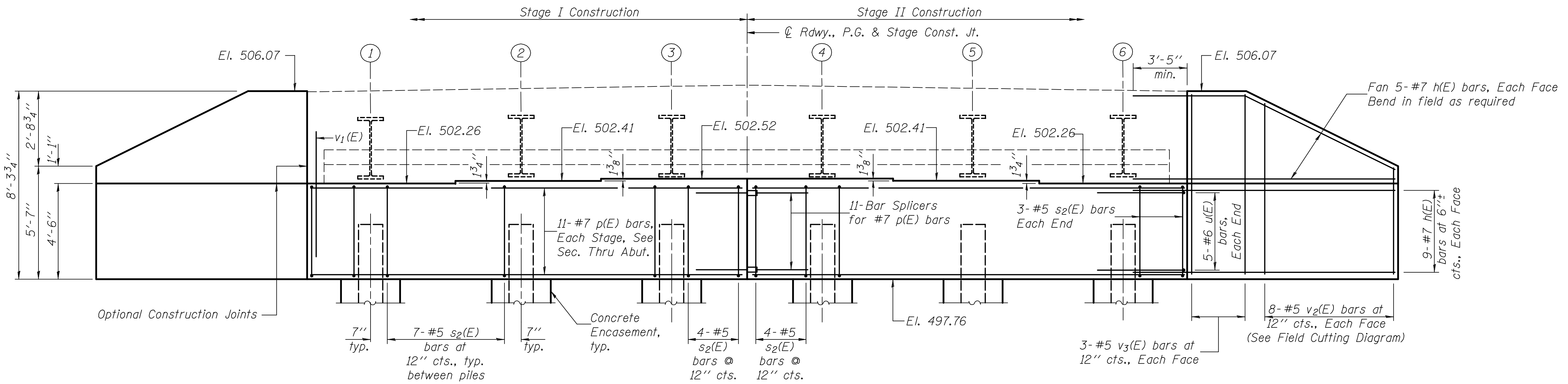
SHEET NO. 15 20 SHEETS	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 47
	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

H.M. & G. INC. 6020.001

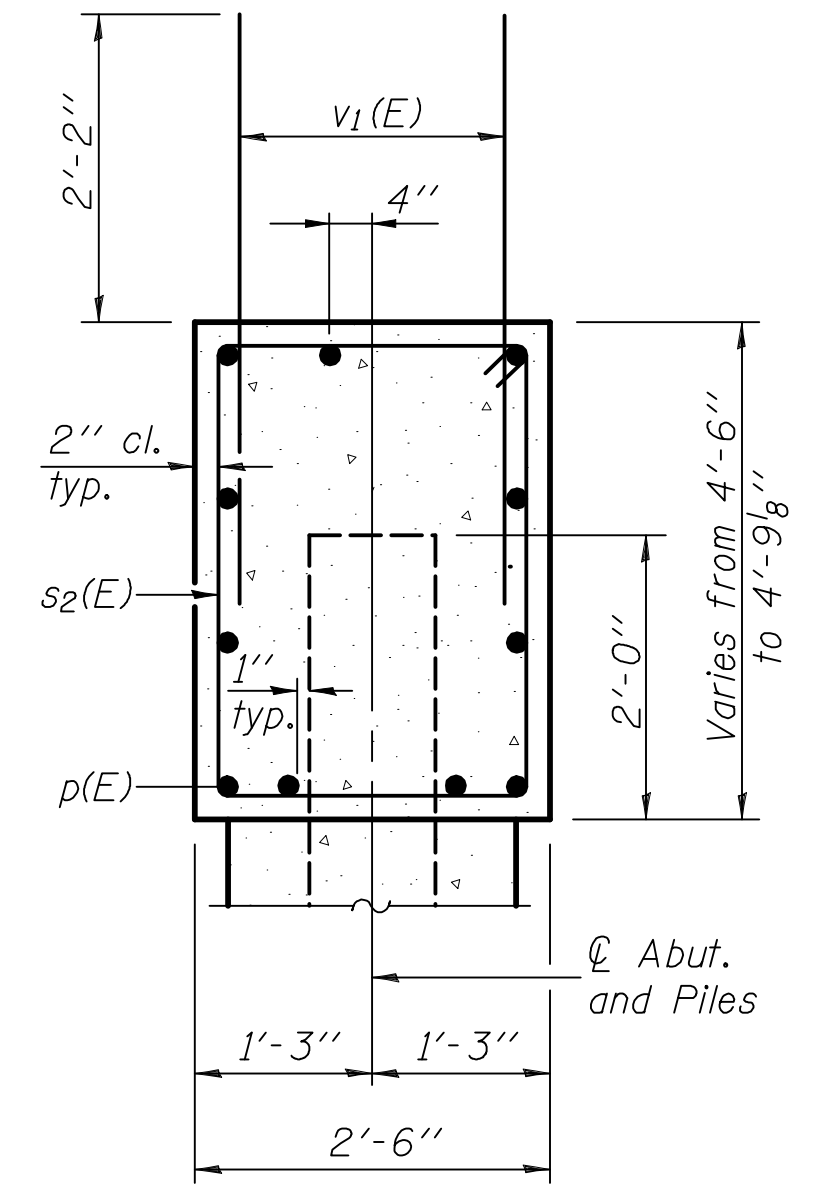
0600341.76A.36.16.EABT.DGN FEB. 26, 2009

Note: Four steps monolithically with cap.

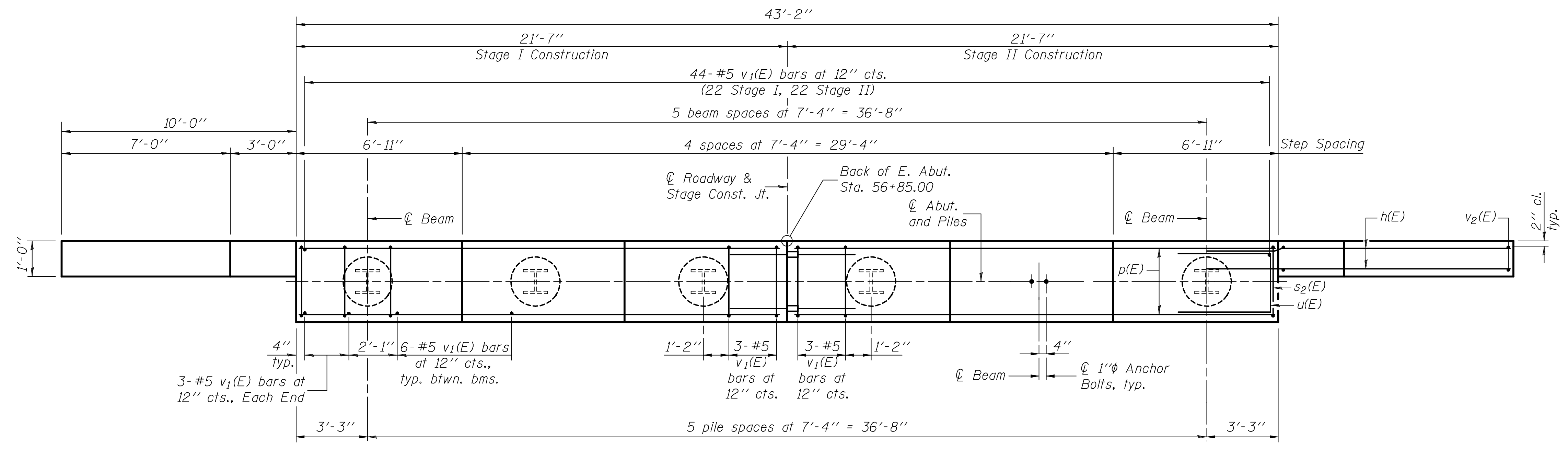
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



ELEVATION
(Looking East)



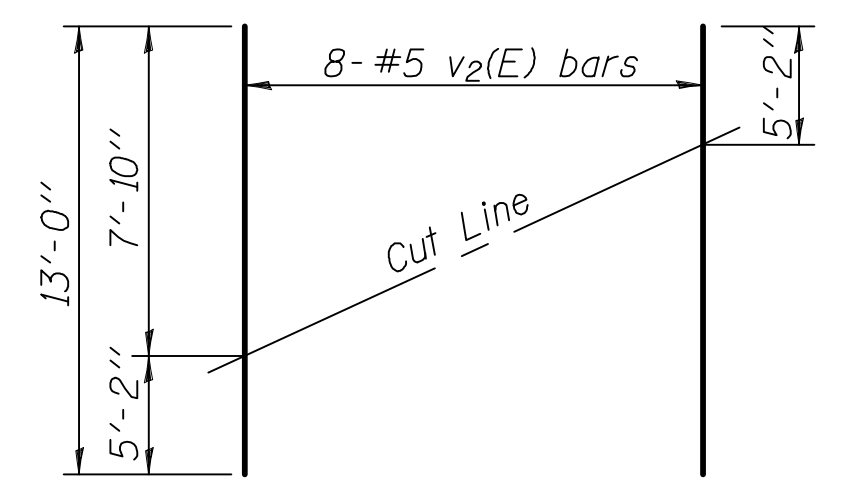
SEC. THRU ABUT.



PLAN

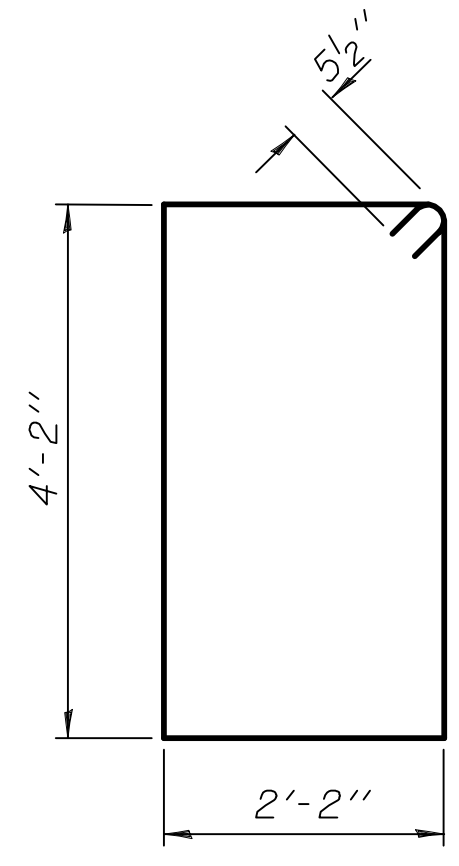
PILE DATA

Type: HP 14x73
 Nominal Required Bearing: 578 k
 Factored Resistance Available: 289 k
 Est. Length: 41 ft.
 No. Production Piles: 5
 No. Test Piles: 1

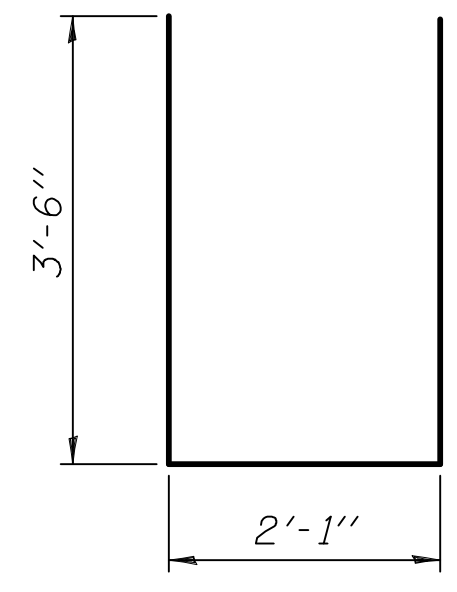


FIELD CUTTING DIAGRAM

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



BAR s2(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#7	14'-0"	—
p(E)	22	#7	21'-3"	—
s2(E)	42	#5	13'-7"	□
u(E)	10	#6	9'-1"	—
v1(E)	80	#5	4'-4"	—
v2(E)	16	#5	13'-0"	—
v3(E)	12	#5	7'-10"	—
Structure Excavation		Cu. Yd.	131	
Concrete Structures		Cu. Yd.	24.0	
Reinforcement Bars, Epoxy Coated		Pound	3,970	
Bar Splicers (E)		Each	11	
Furnishing Steel Piles HP 14x73		Foot	205	
Driving Piles		Foot	205	
Test Pile Steel HP 14x73		Each	1	
Concrete Encasement		Cu. Yd.	3.3	

For details of Bar Splicers, see sheet 17 of 20.
 For details of piles and Concrete Encasement, see sheet 18 of 20.

EAST ABUTMENT

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

AI-O 5-16-08

SHEET NO. 16 20 SHEETS	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 48
	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

H.M. & G. INC. 6020.001

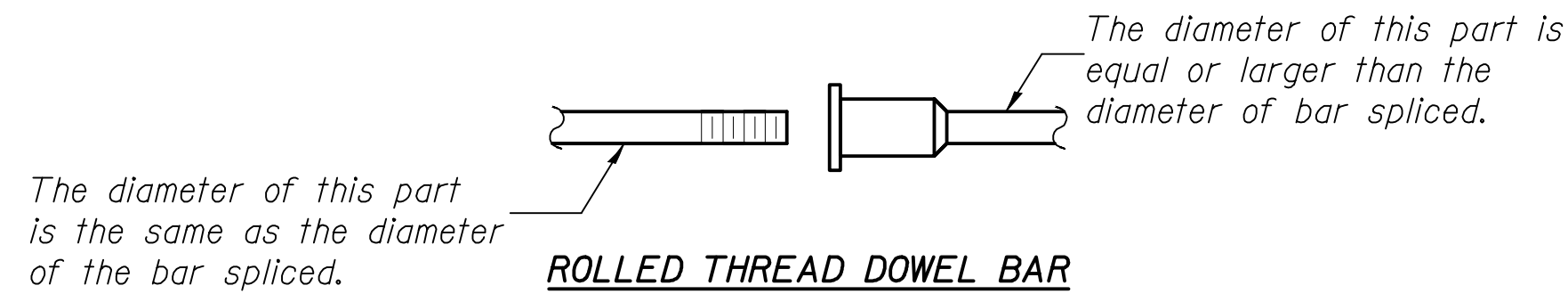
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

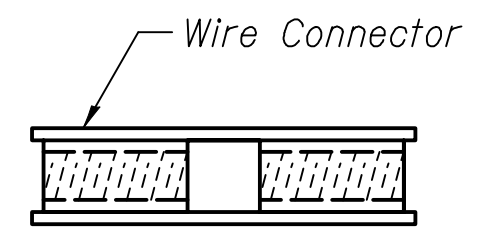
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0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



ROLLED THREAD DOWEL BAR



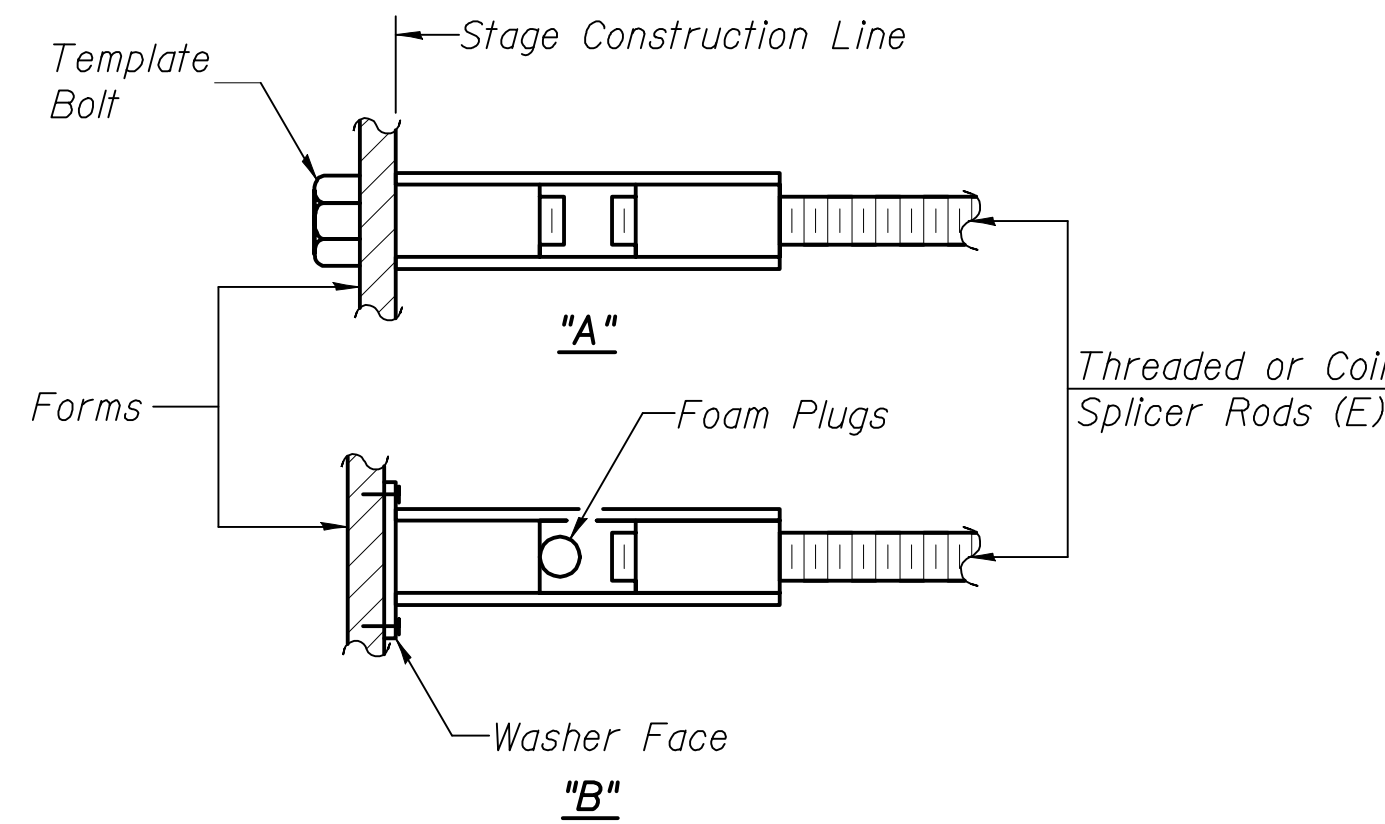
**** ONE PIECE**



WELDED SECTIONS

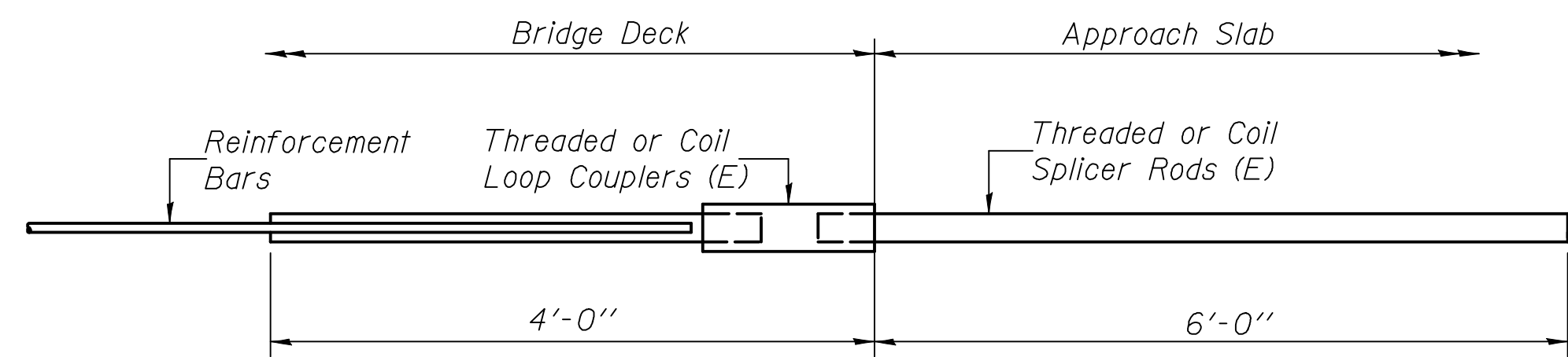
BAR SPLICER ASSEMBLY ALTERNATIVES

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

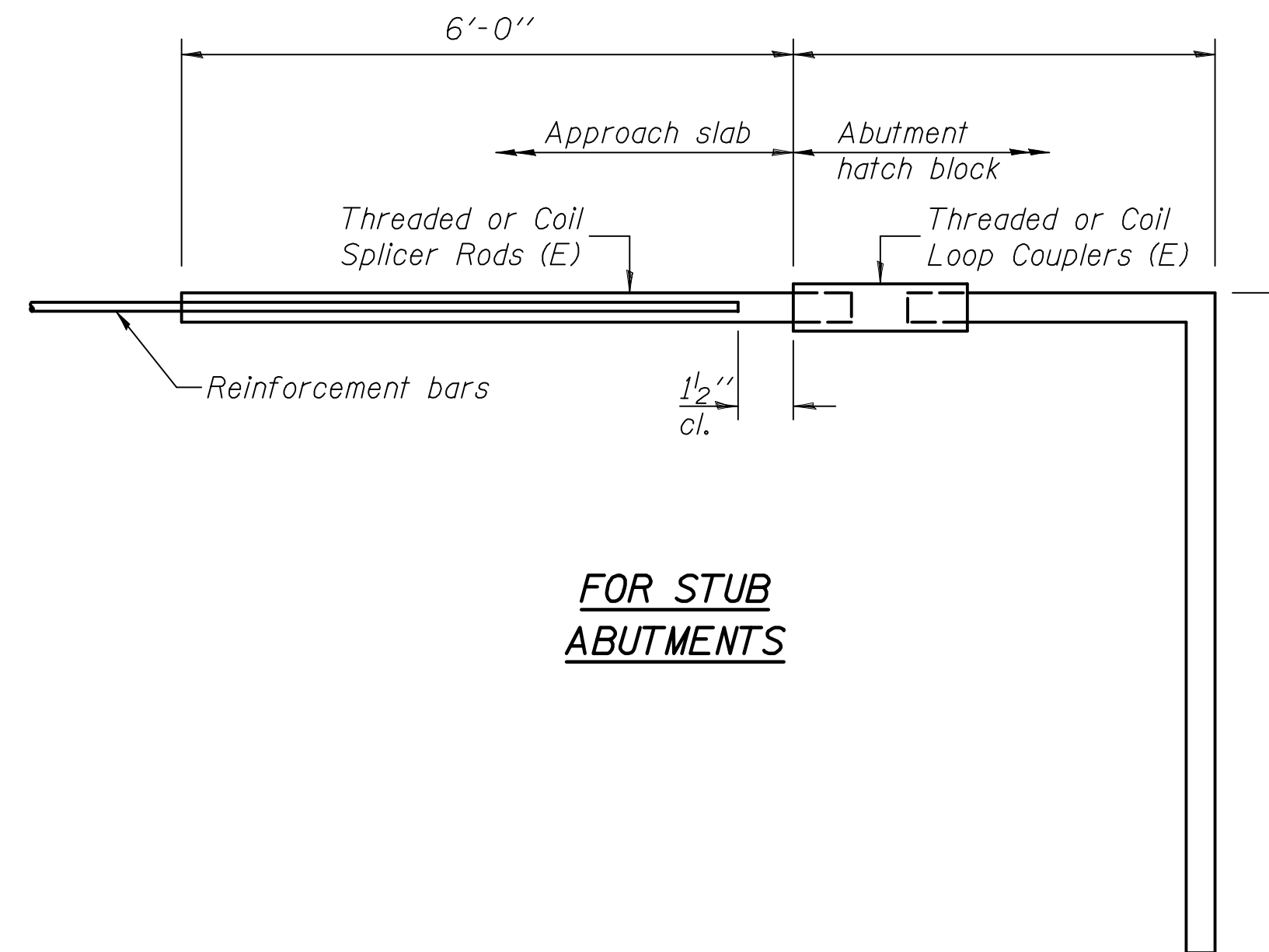


INSTALLATION AND SETTING METHODS

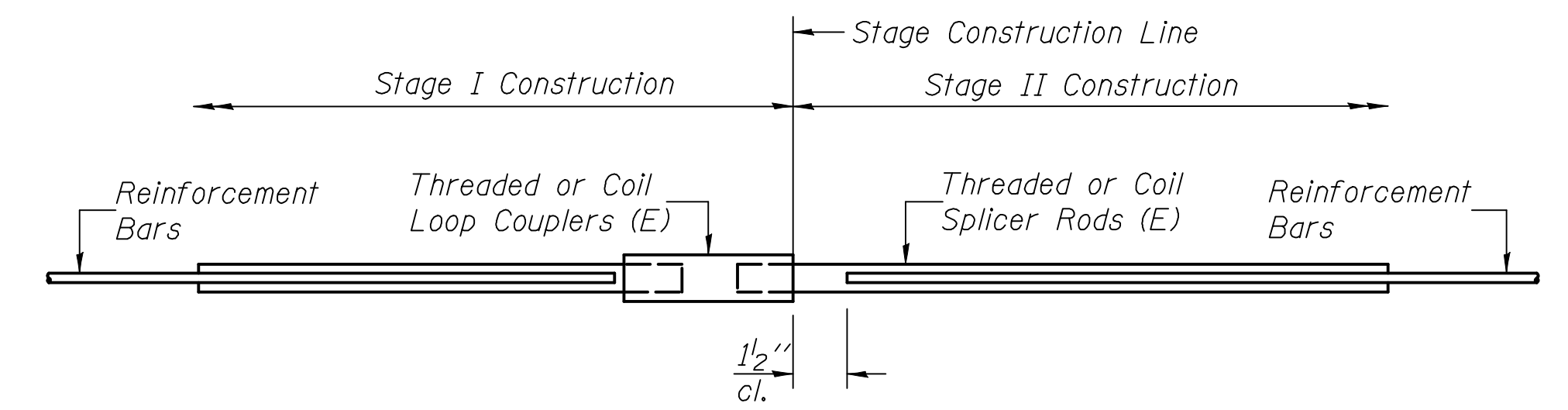
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS



FOR STUB ABUTMENTS



STANDARD

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	80

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

Bar Size	No. Assemblies Required	Location
#6	16	Diaphragms
#5	283	Deck
#7	22	Abutments

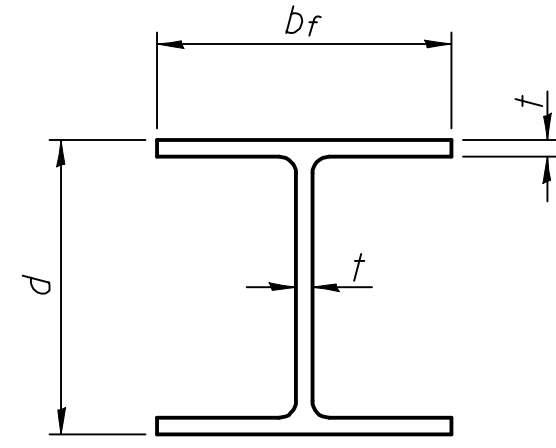
BAR SPLICER ASSEMBLY DETAILS

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

BSD-1 10-1-08

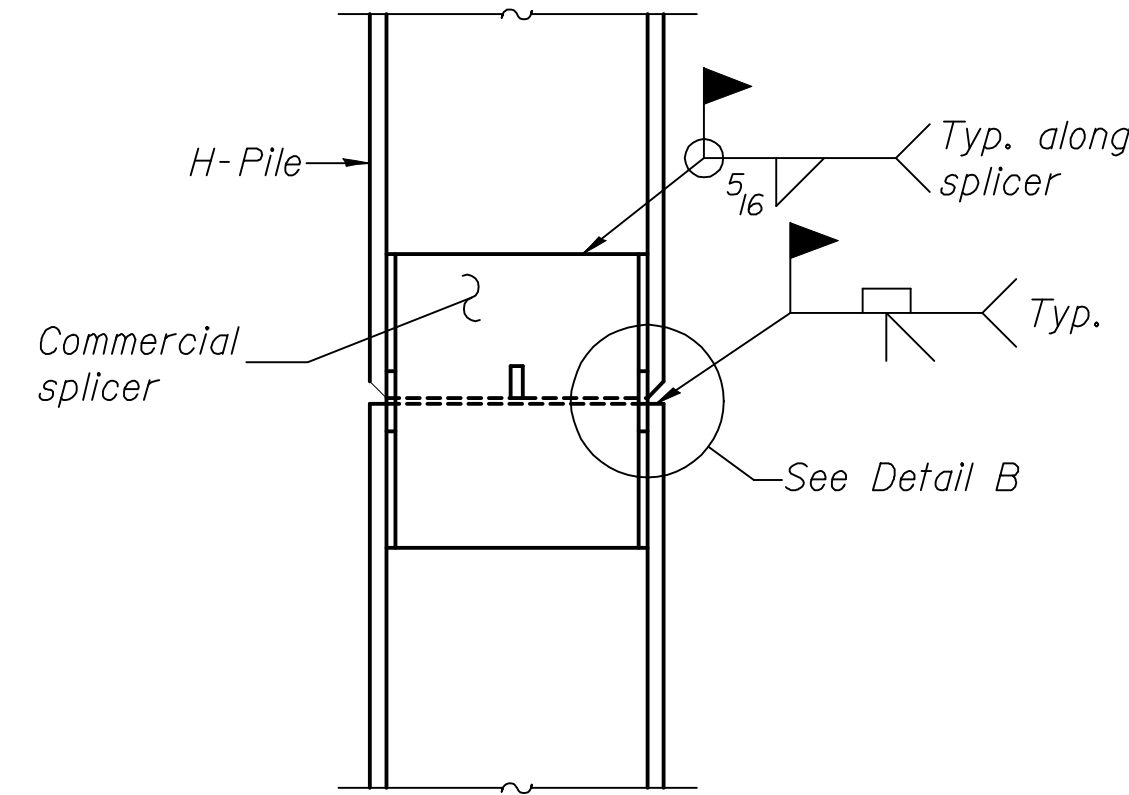
SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	793	40BR-1	MADISON	72	49
S.N. 060-0341			CONTRACT NO. 76A36		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

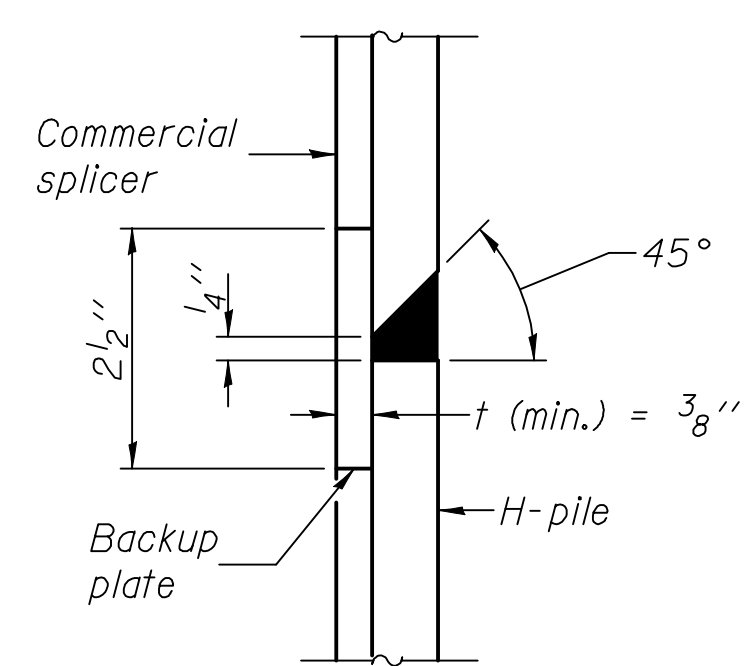


STEEL PILE TABLE

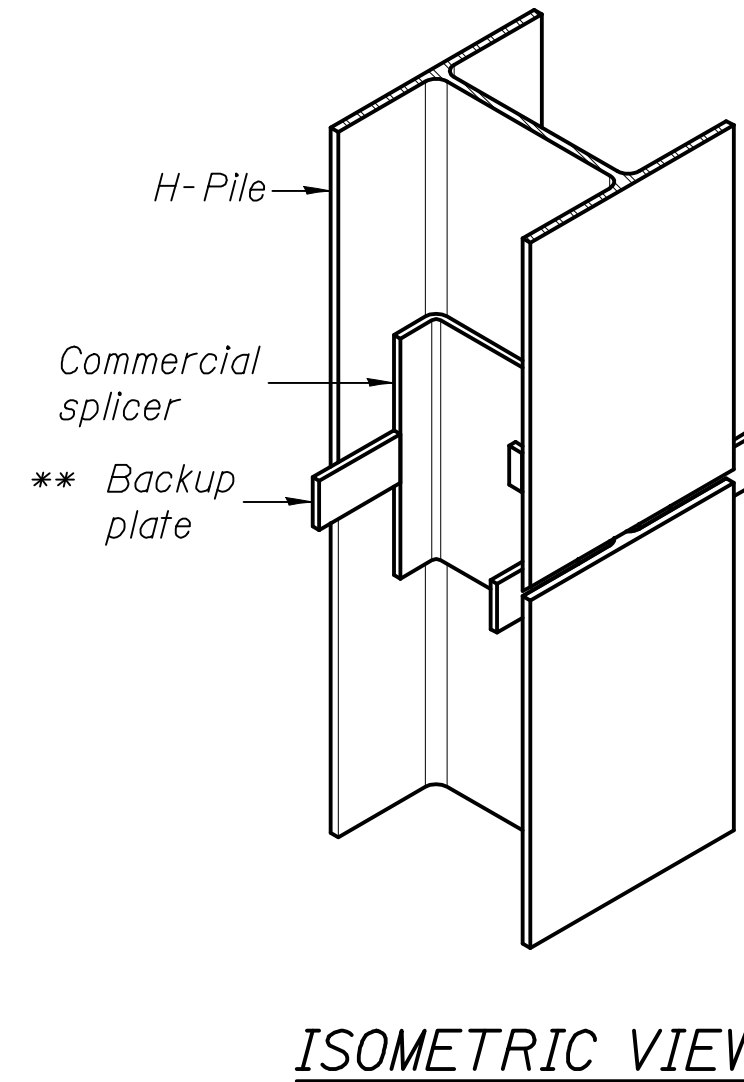
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

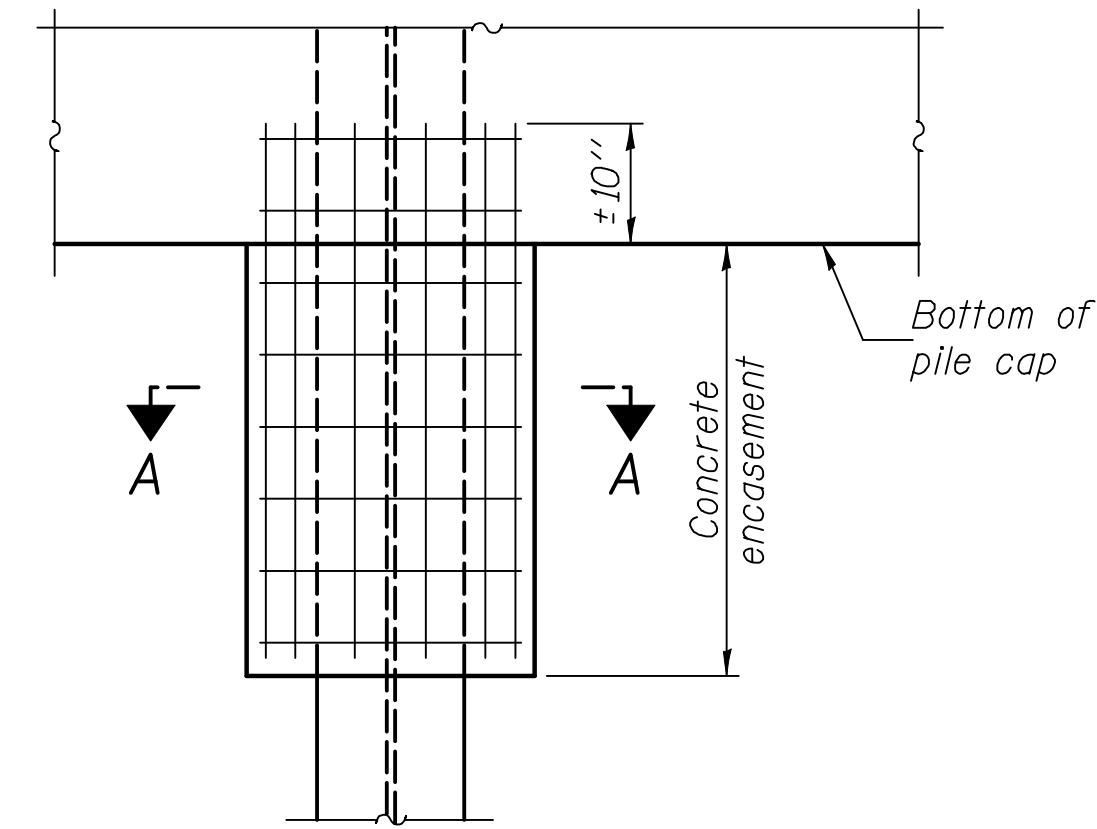


DETAIL "B"



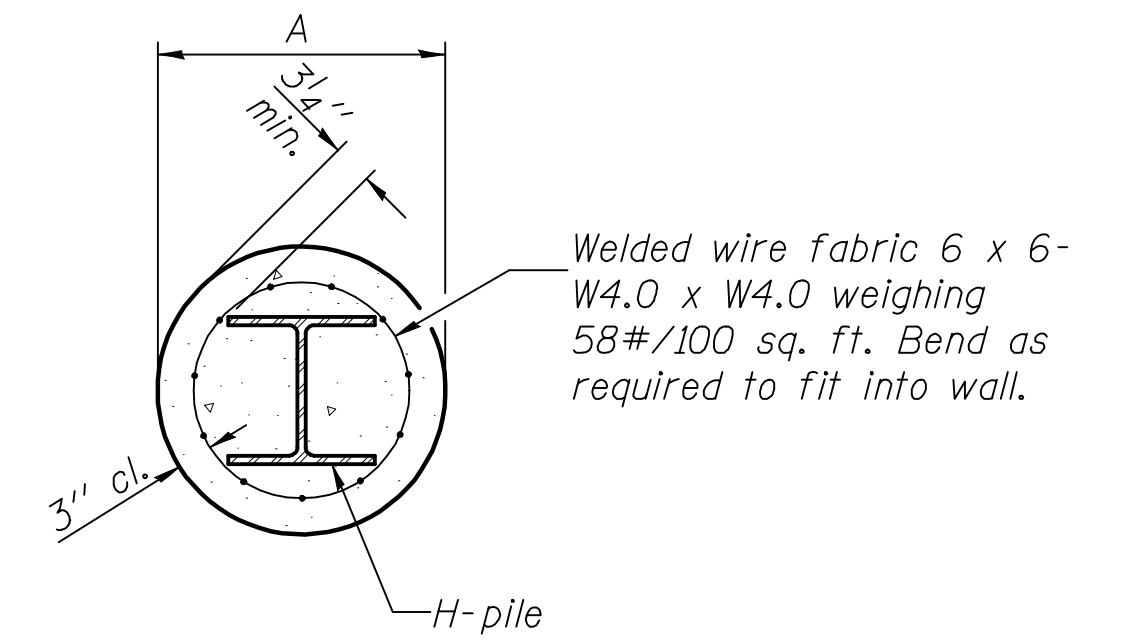
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



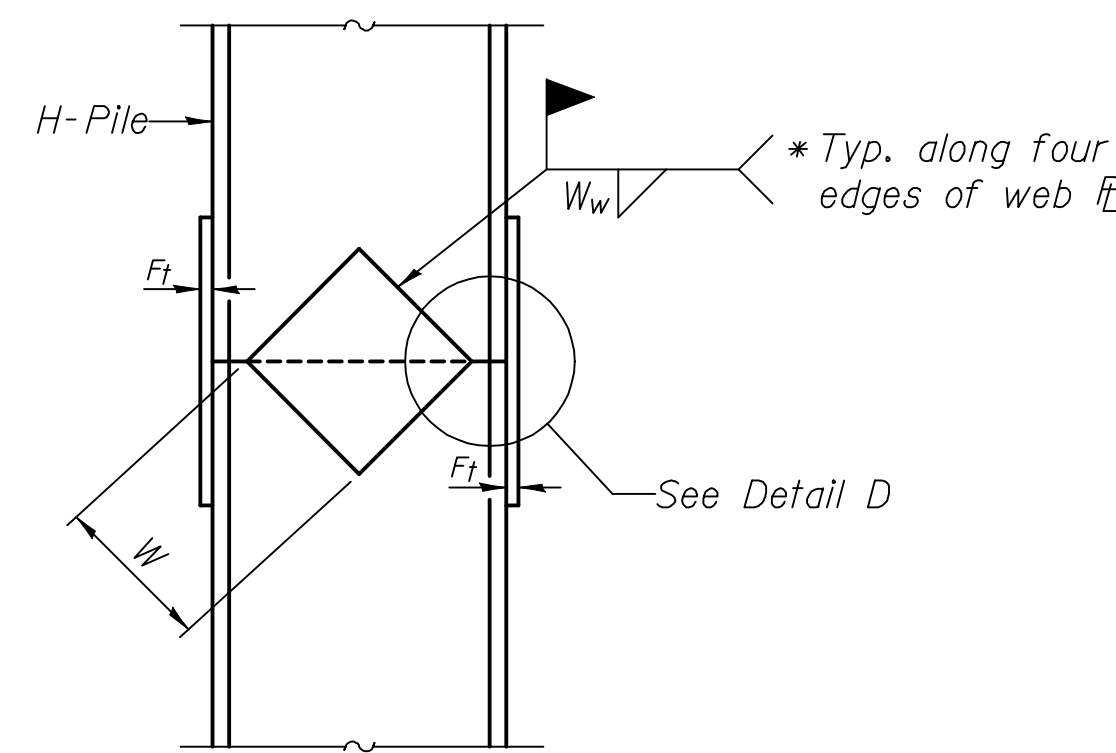
ELEVATION

PILE ENCASEMENT

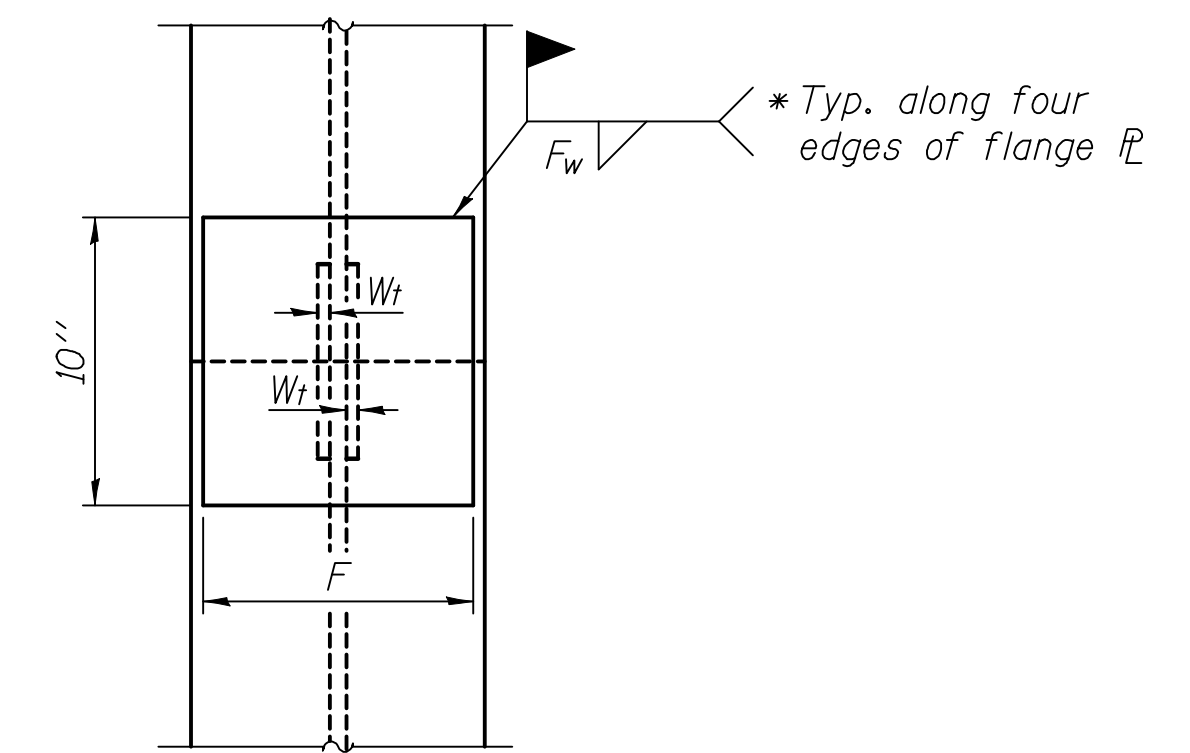


SECTION A-A

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



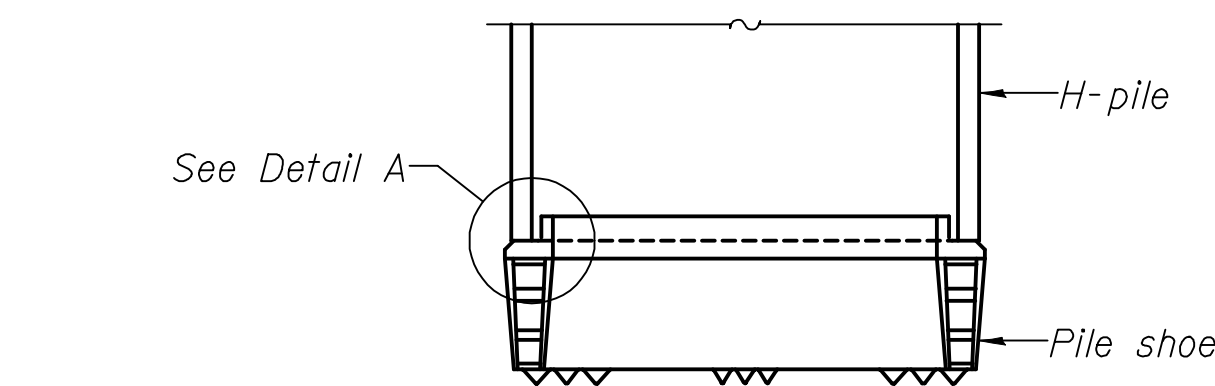
ELEVATION



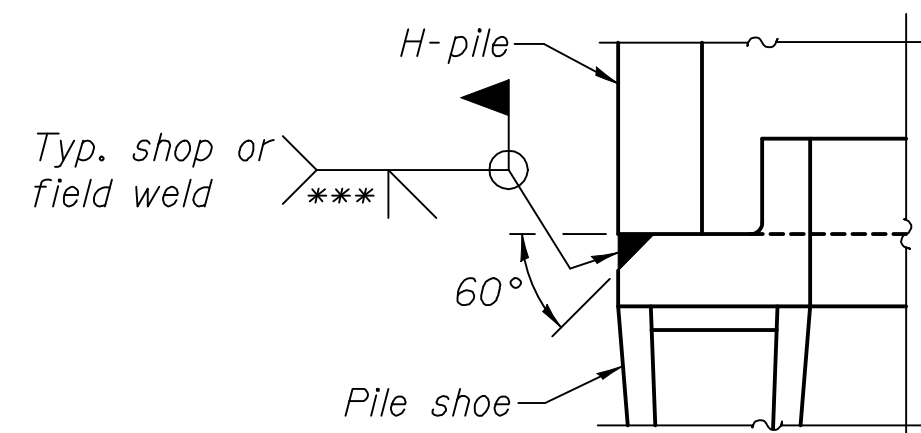
END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

HP PILE DETAILS

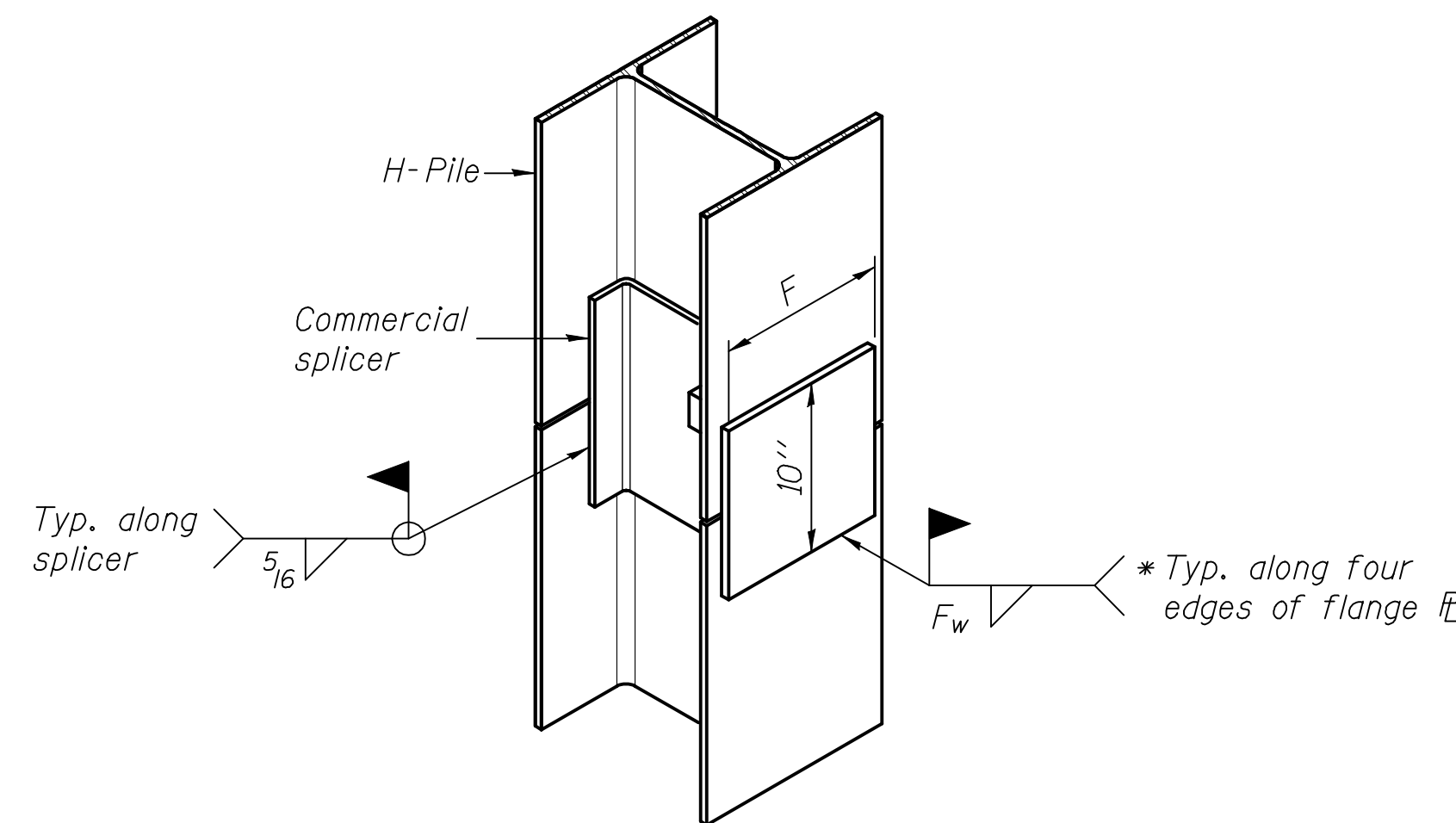


ELEVATION



DETAIL A

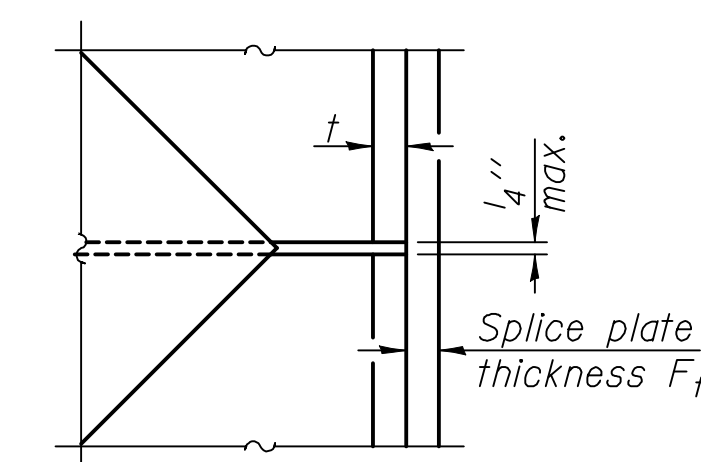
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



DETAIL D

WELDED PLATE FIELD SPLICE

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

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

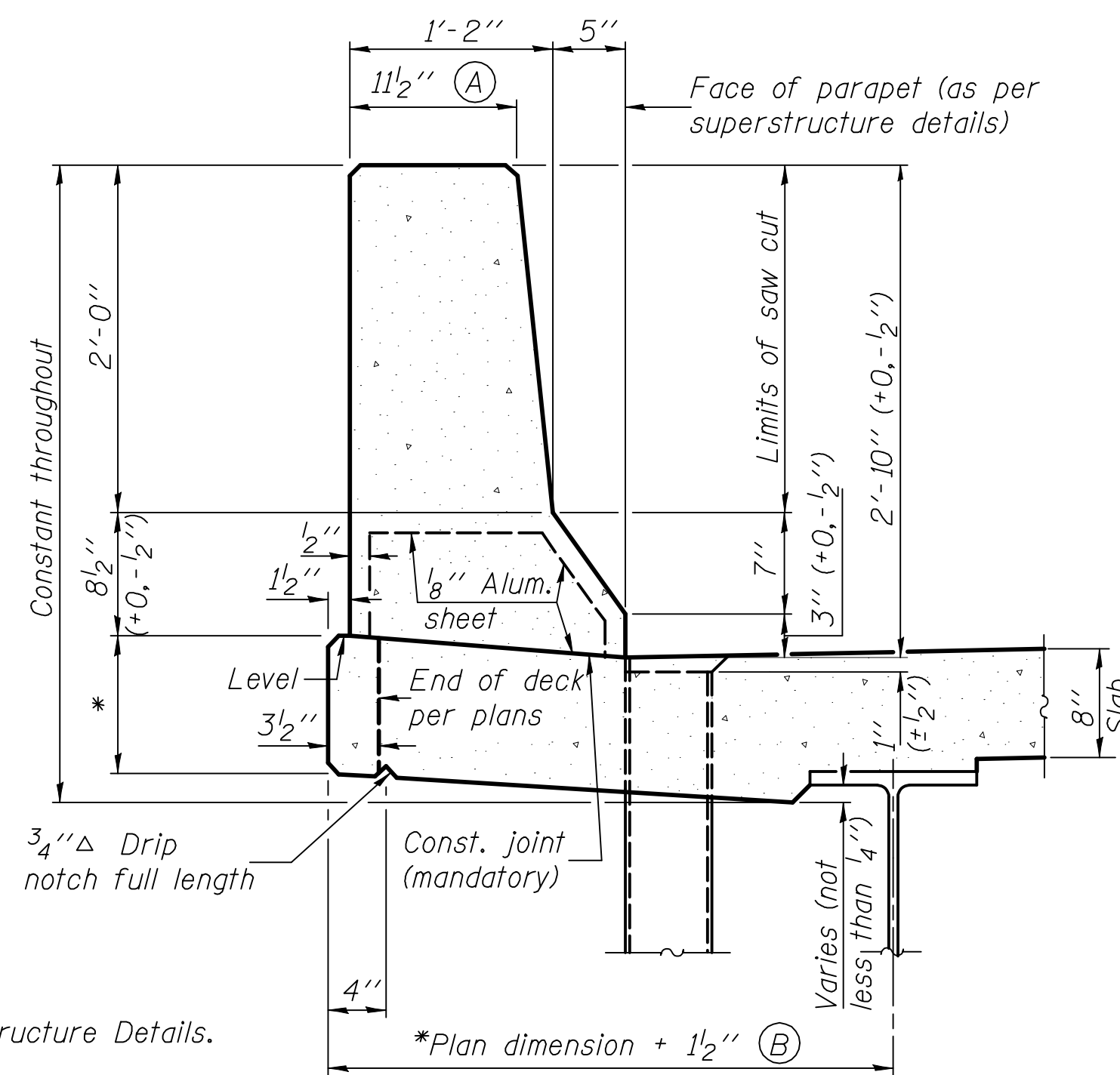
F-HP 1-27-12

SHEET NO. 18 20 SHEETS	F.A.P. RTE. 793	SECTION 40BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 50
	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

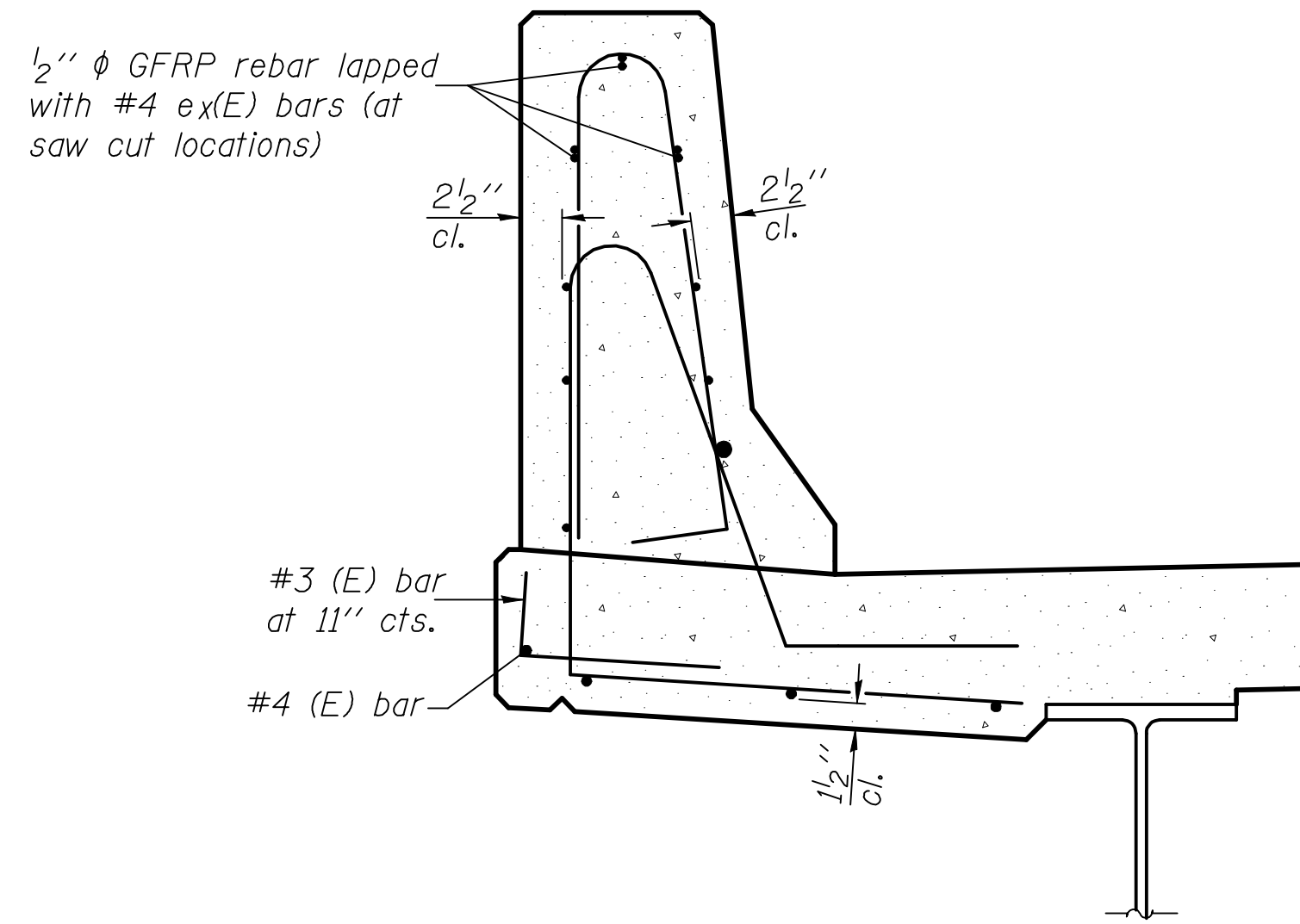
GENERAL NOTES

All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.



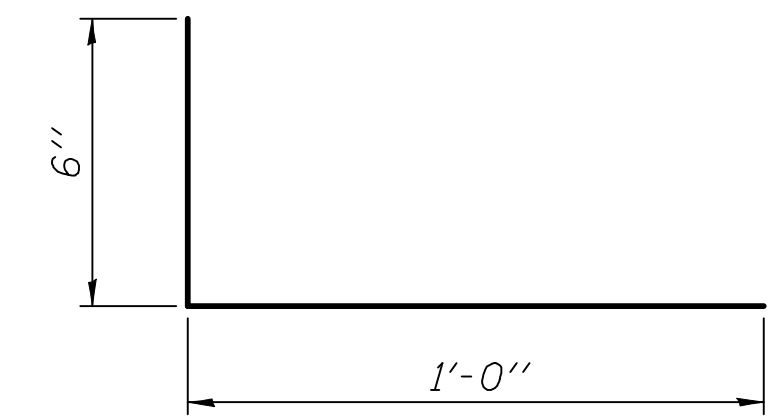
34" F SHAPE PARAPET SECTION
(Showing dimensions)

*See Superstructure Details.

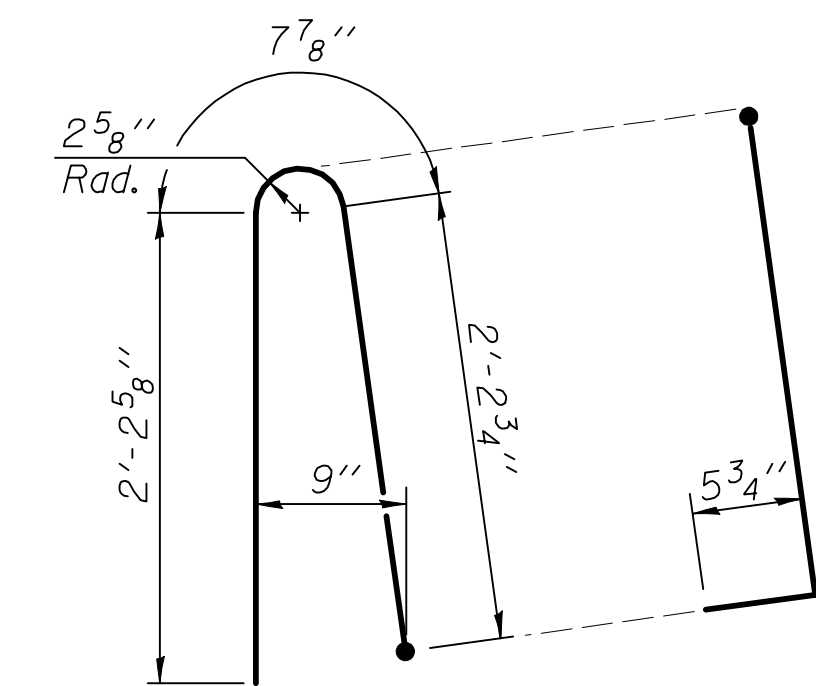


SECTION

(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

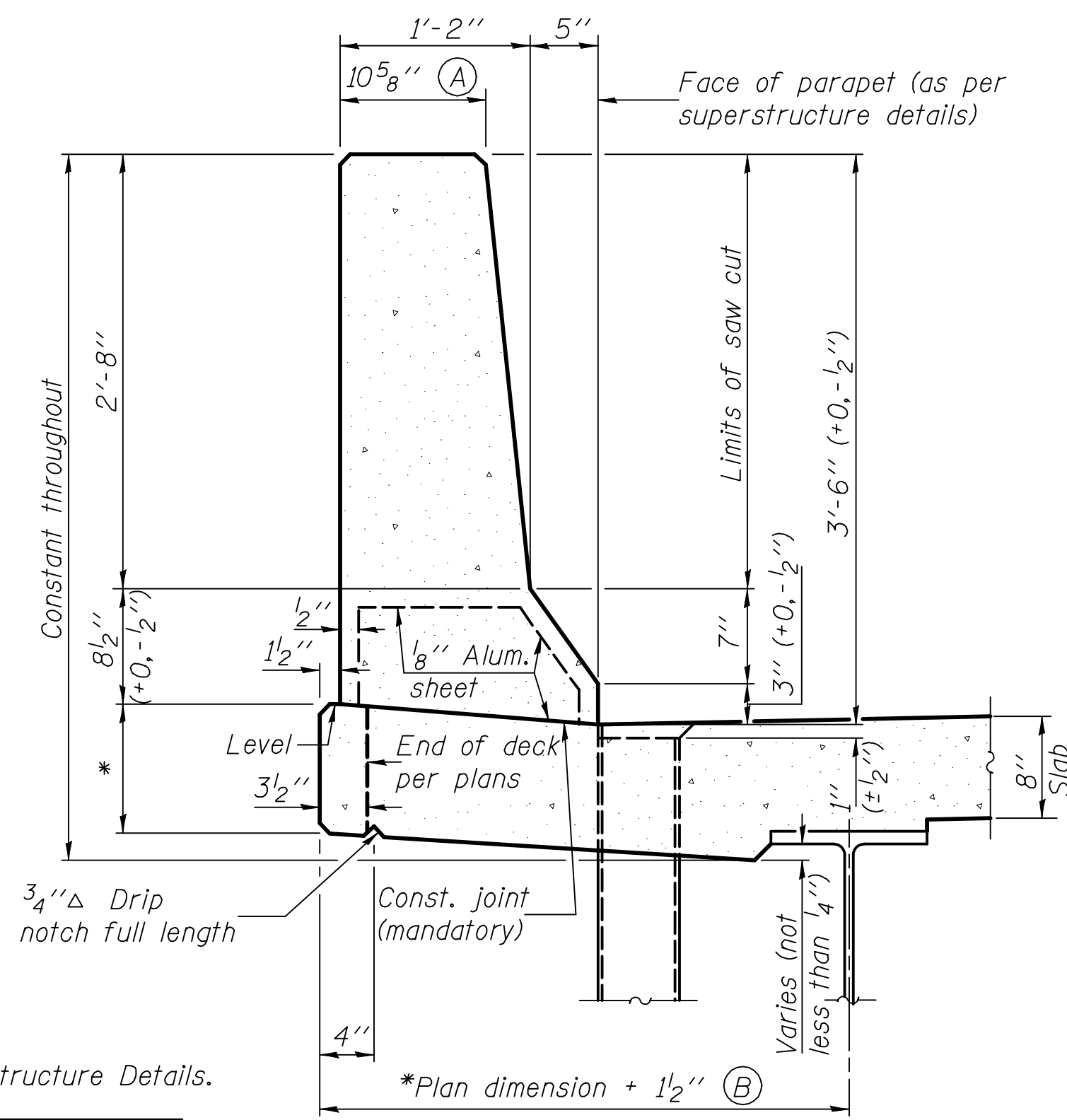


#3 (E) BAR



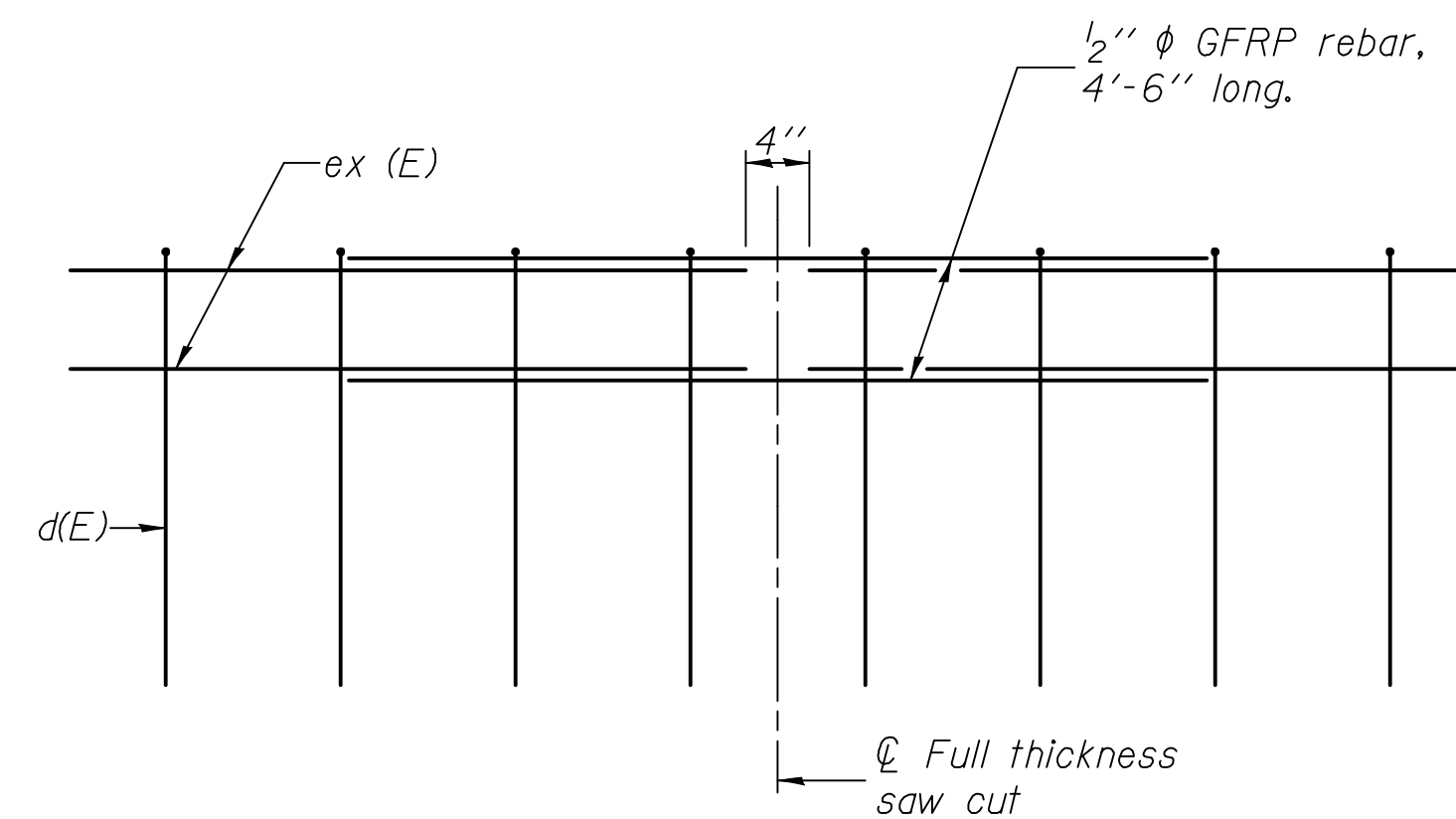
ALTERNATE BAR d(E)

(For 34" parapet when conduit is present)



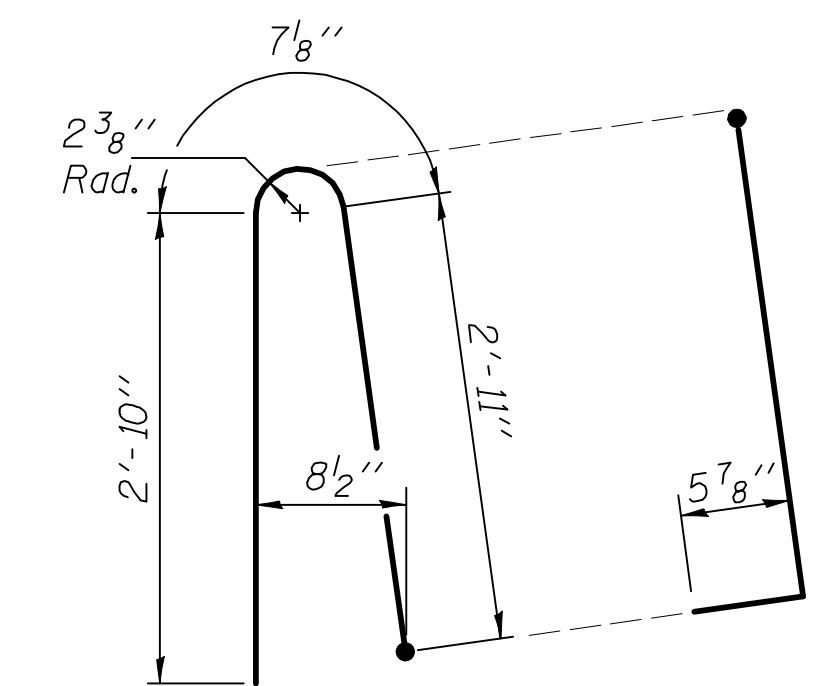
42" F SHAPE PARAPET SECTION
(Showing dimensions)

*See Superstructure Details.



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)



ALTERNATE BAR d(E)

(For 42" parapet when conduit is present)

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.


SFP 34-42

8-16-12

CONCRETE PARAPET SLIPFORMING OPTION

SHEET NO. 18A	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	50A
20 SHEETS	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2
Date 12/9/70

ROUTE FAP 793 DESCRIPTION IL 143 over Sugar Creek LOGGED BY C. Hoffman

SECTION 40BR-1 LOCATION W 1/2, SEC. 24, TWP. 4N, RNG. 5W, 3 PM


COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0128 (E) / 060-0341 (P)
Station 56+45

BORING NO. 1 W. Abut
Station 56+04.5
Offset 10.50ft RT
Ground Surface Elev. 505.1 ft

Description	Depth (ft)	Penetration (lb/ft)	SPT (blows)	UCS Failure Mode	Groundwater Elev.	
					ft	(ft)
Surface Water Elev.						
Stream Bed Elev.						
Groundwater Elev. First Encounter					490.7	
Groundwater Elev. Upon Completion						
Groundwater Elev. After						
Brown Silty CLAY	0-8		26			
Brown and Gray Silty Slightly Sandy CLAY (continued)	8-15		NS			
Brown and Gray Clay TILL	15-30	0.81	25			
Brown and Gray Highly Weathered SHALE	30-96	0.88	20			
Dark Gray-Black CLAY	96-100	0.62	18			
Gray Silty CLAY	100-104	1.35	20			
Brown and Gray Silty Slightly Sandy CLAY	104-106	1.17	19			
	106-110	1.11	16			
	110-114	0.52	16			
End of Boring	114-120					

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



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2
Date 12/9/70

ROUTE FAP 793 DESCRIPTION IL 143 over Sugar Creek LOGGED BY C. Hoffman

SECTION 40BR-1 LOCATION W 1/2, SEC. 24, TWP. 4N, RNG. 5W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0128 (E) / 060-0341 (P)
Station 56+45

BORING NO. 1 W. Abut
Station 56+04.5
Offset 10.50ft RT
Ground Surface Elev. 505.1 ft

Description	Depth (ft)	Penetration (lb/ft)	SPT (blows)	UCS Failure Mode	Groundwater Elev.	
					ft	(ft)
Surface Water Elev.						
Stream Bed Elev.						
Groundwater Elev. First Encounter					490.7	
Groundwater Elev. Upon Completion						
Groundwater Elev. After						
NOTE: Value is "N" Column is the TOTAL Blow Count for the Sample						


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

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

SOIL BORING LOGS

SHEET NO. 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	51
20 SHEETS		S.N. 060-0341		CONTRACT NO. 76A36	
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1
Date 12/9/70

ROUTE FAP 793 DESCRIPTION IL 143 over Sugar Creek LOGGED BY C. Hoffman

SECTION 40BR-1 LOCATION W 1/2, SEC. 24, TWP. 4N, RNG. 5W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0128 (E) / 060-0341 (P)
Station 56+45

BORING NO. 2 E. Abut
Station 56+79.5
Offset 10.50R RT
Ground Surface Elev. 505.1 ft

Description	Depth (ft)	Bulge (ft)	Shear (tsf)	Penetration (blows)	Groundwater Elev.		Depth (ft)	Bulge (ft)	Shear (tsf)	Penetration (blows)
					First Encounter	Upon Completion				
Brown Silty CLAY	0-5				490.7	490.7	5	0.55	23	
	5-6	0.72	B	25			30	4.37	19	
	6-7	0.98	B	24			30	4.07	19	
Dark Gray Silty CLAY	7-10						50	4.16	17	
	10-8	0.88	B	25			100+	--	15	
	8-5	0.52	B	26			100+	--	14	
Gray Silty Slightly Sandy CLAY	5-18						100+	--	15	
	18-3	0.23	B	21						
Brown and Gray Clay TILL	3-40									

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

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

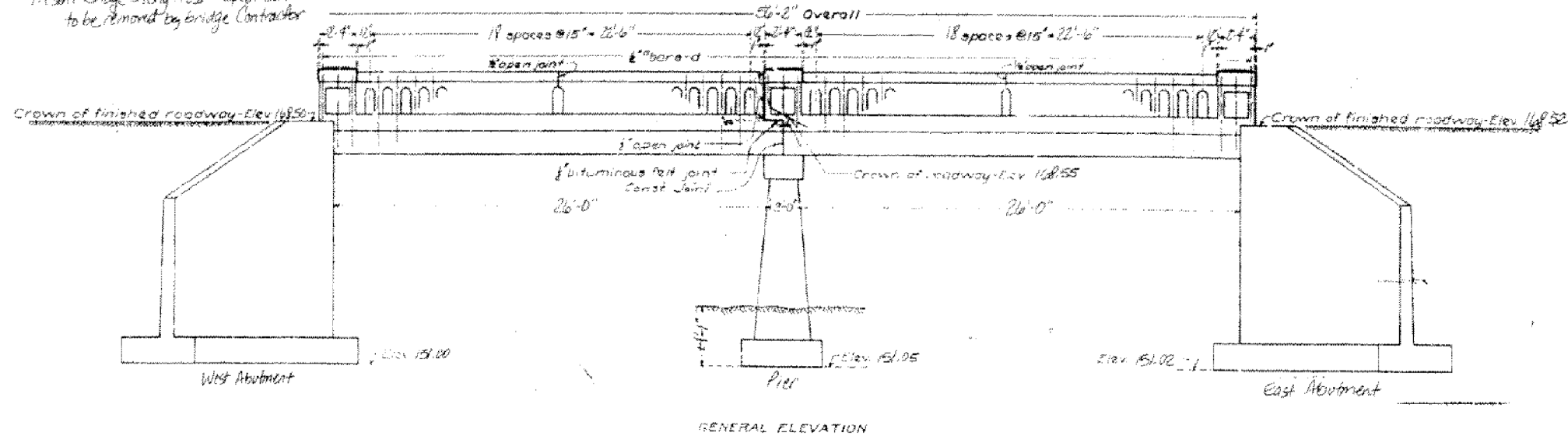
SOIL BORING LOGS

SHEET NO. 20	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	793	40BR-1	MADISON	72	52
20 SHEETS	S.N. 060-0341		CONTRACT NO. 76A36		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

Bl #8 - South West Corner East Abutment
 Right of Station 56740 - Elev 164.45
 Present Bridge - Box Truss - Span 30ft
 to be removed by bridge contractor

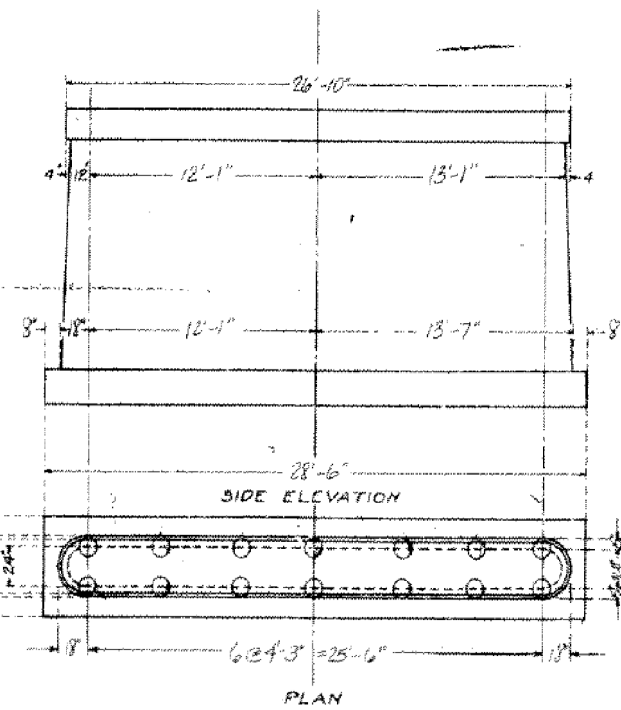
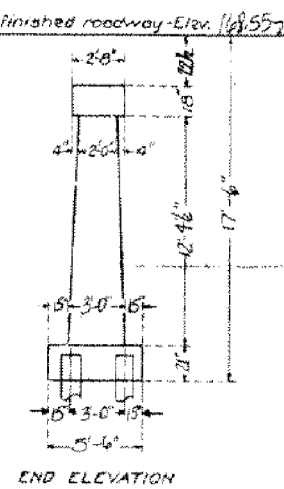
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

Proj. No.	County	Sec.	Total Sheets	Sheet No.	Sheet No.
11	Madison	40	37	37	37



BILL OF MATERIAL FOR PIER

Bar	No	Size	Length
Reinforcing Steel - Lbs. XXX			
Class Concrete - Cu Yds. 44.1			
14-15 Ton Untr. Piles - Lin Ft. 280			
Class Concrete to be used in pier			



SUMMARY BILL OF MATERIAL

Item	Superstructure	Abutments	Pier	Total
Class A Concrete - Cu Yds.	75.2	108.9		184.7
Class B Concrete - Cu Yds.			44.1	44.1
Class X Concrete - Cu Yds.	8.3			8.3
Reinforcing Steel - Lbs.	16440	9760		26200
Untr. Piles - 10 Ton - Lin Ft.		680		680
Untr. Piles - 12 Ton - Lin Ft.				
Untr. Piles - 15 Ton - Lin Ft.		400	280	680
Name Plate	1			1

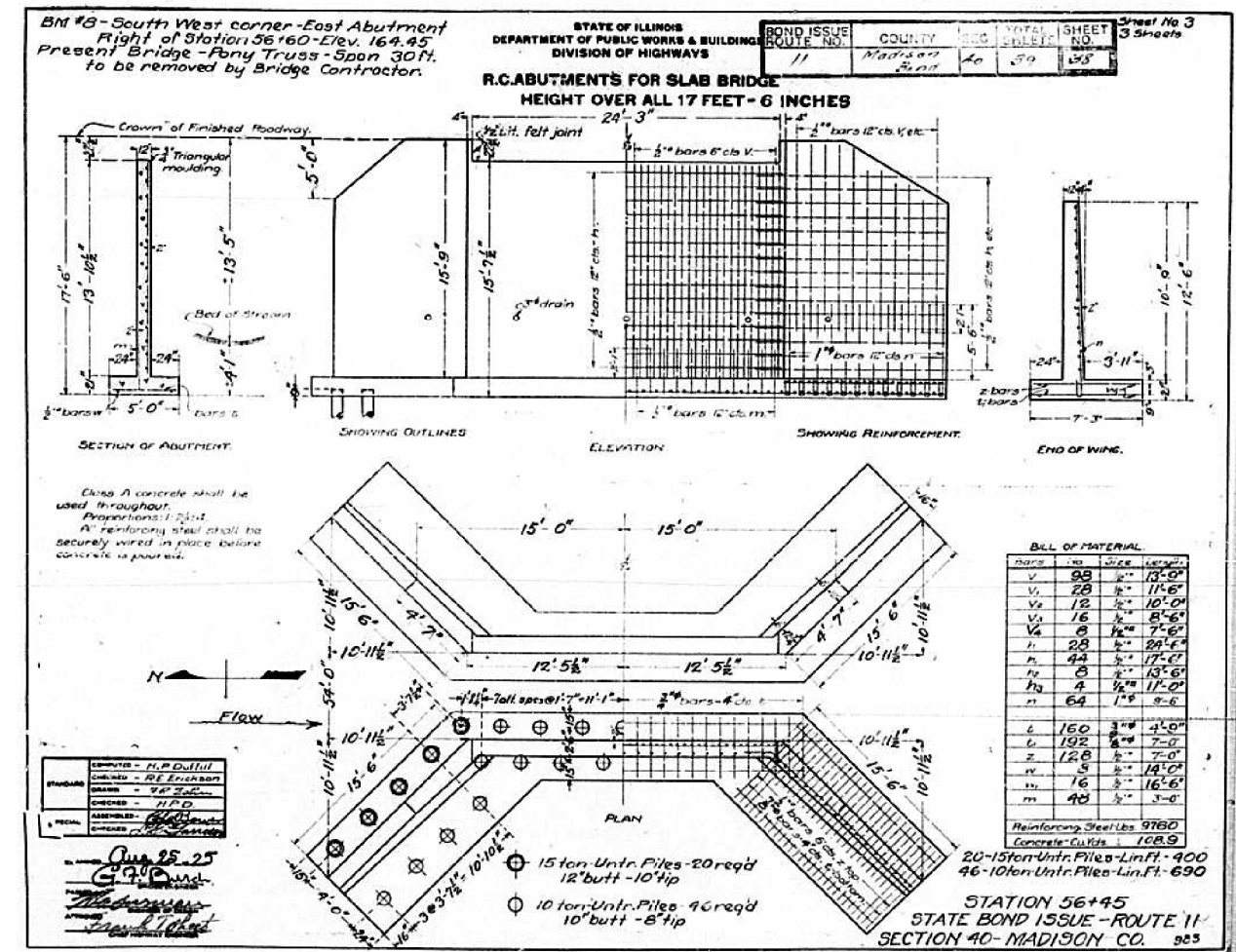
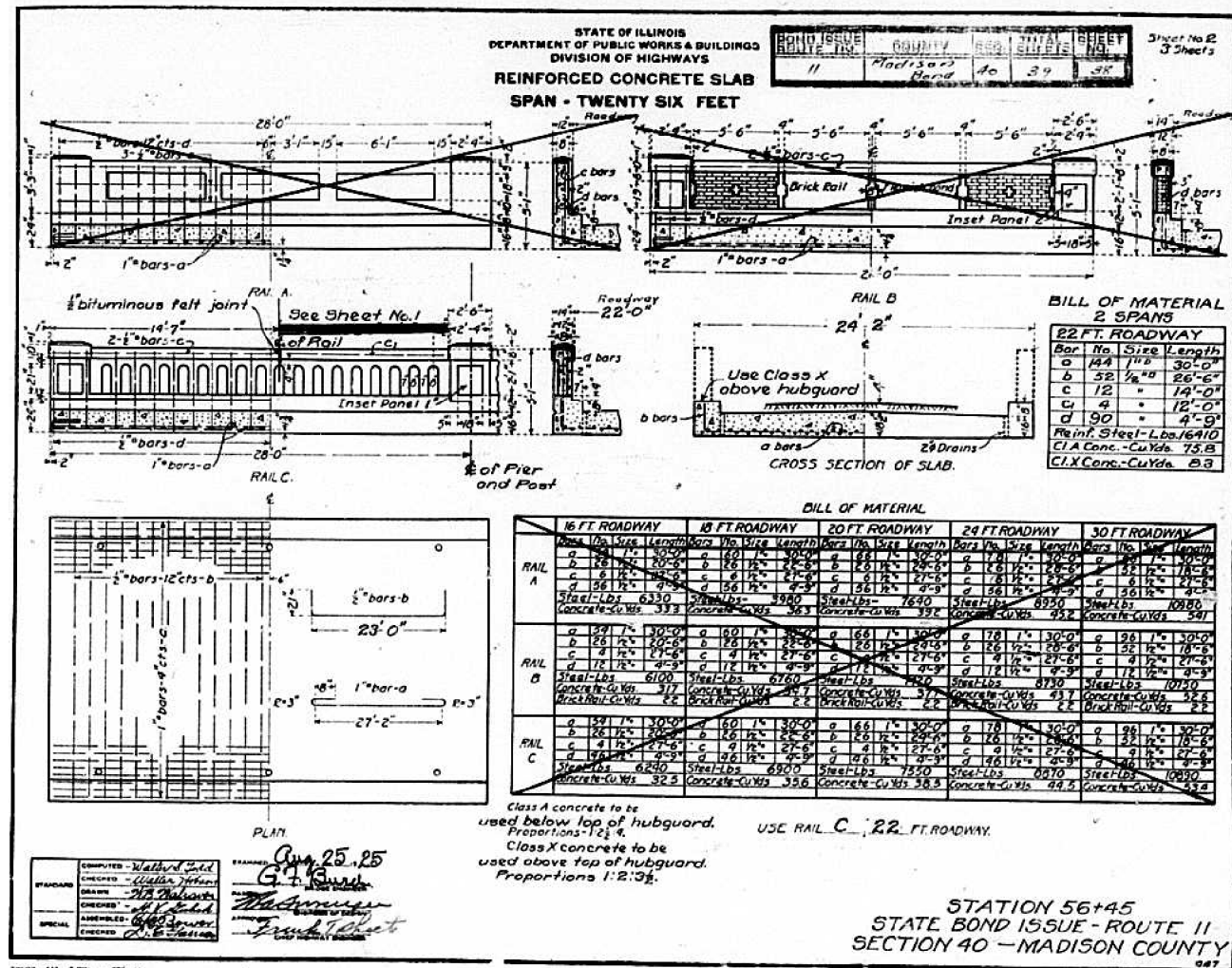
COMPUTED	—	Aug 25 25
CHECKED	—	G. J. Bunch
DRAWN	—	
CHECKED	—	
ASSEMBLED	—	
CHECKED	—	

EXAMINED Aug 25 25
 G. J. Bunch
 PASSED
 APPROVED
 CHIEF HIGHWAY ENGINEER

13-ton - Untraced Piles - 14 required
 12" butt - 10" tip

STATION 56745
 STRIP BARS 15#6 - ROUTE 11
 SECTION 40 - MADISON COUNTY

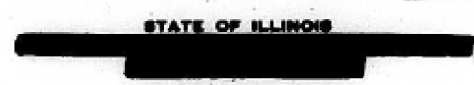
FOR INFORMATION ONLY



FOR INFORMATION ONLY

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN -	REVISED -					793	40BR-1	MADISON	72	54
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -					CONTRACT NO. 76A36				
	PLOT DATE = *DATE*	DATE -	REVISED -					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

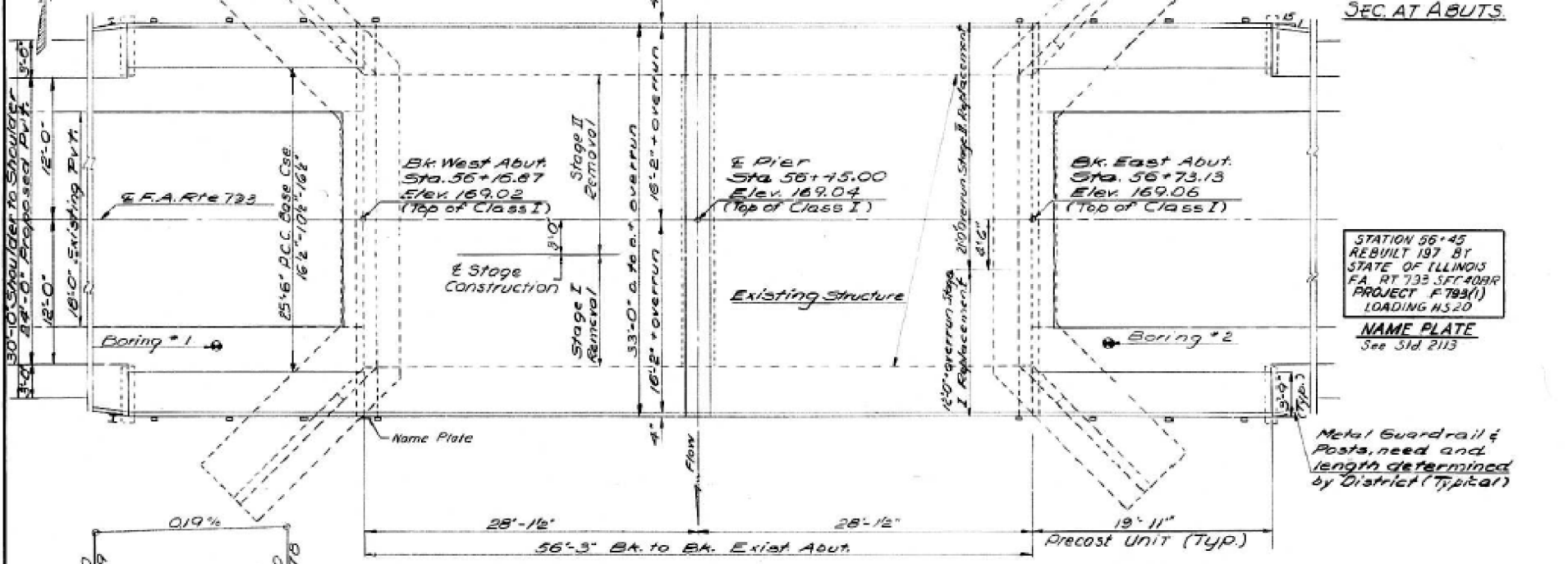
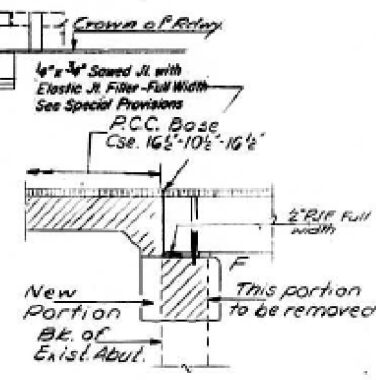
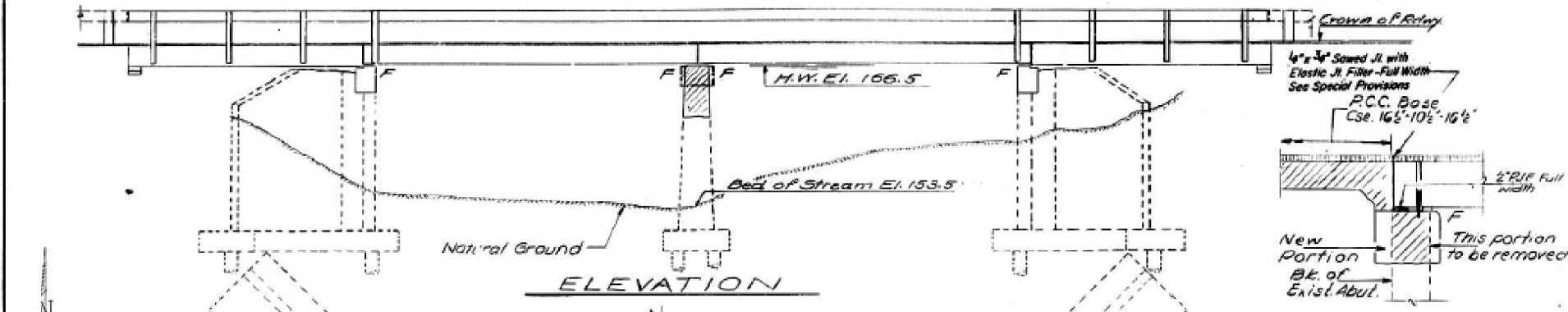
B.M.: 'X' in south east wing wall 14' right sta. 56+73 Elev. = 166.50.
 Existing Structure @ Sta. 56+45 Built in 1926 as S.B.I. Rte. 11
 Sec. 40. Existing superstructure to be removed utilizing stage
 construction so as to maintain traffic over the bridge at all
 times. Existing Pier and Abutments to be Rebuilt as
 required and widened.



DATE	SECTION	COUNTY	SHEET	SHEET NO.
11/19/68	40BR	MADISON	11	5
SHEETS				

GENERAL NOTES

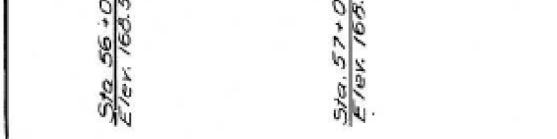
All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 It shall be the responsibility of the contractor to verify all dimensions and conditions existing in the field prior to construction and ordering materials.
 Limits of Waterproofing Membrane System shall be back to back of abutments.
 Expansion bolts shall consist of self-drilling expansion anchors and 2" hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.
 Shoulder transition to wing wall shall be shaped with broken concrete. Cost incidental.
 The top surface of the beams shall be finished in accordance with Article 525D6 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
 Existing rebars in approach slab shall be cleaned and reused.



BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Concrete Removal	Cu. Yds.		18	18
Expansion Bolts (2")	Each		64	64
Class X Concrete	Cu. Yds.	16		16
P. P. Concr. Deck Bms (12")	Sq. Ft.	1851		1851
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Steel Railings, Type 5	Lin. Ft.	192		192
Reinforcement Bars	Lbs.		3290	3290
P.C. Mortar Facing Course	Lin. Ft.	561		561
Removal of Exst. Superstr.	Each		1	1
Waterproofing Membrane System	Sq. Yds.	206		206
Bit. Concrete Surf. Class I	Tons	30		30
Temporary Guardrail	Lin. Ft.	56		56
Name Plate	Each		1	1

STATION 56+45
 REBUILT 197 BY
 STATE OF ILLINOIS
 F.A. RTE. 793 S.F. 40BR
 PROJECT # 793(1)
 LOADING HS20
NAME PLATE
 See Sld. 2113



WATERWAY INFORMATION

Drainage Area 6332 Acres
 Character
 Required Opening (50 yr flood) 17.9 Sq. Ft.
 Present Opening 53.5 Sq. Ft.
 Ordinary Water Elev. 156.9
 H.W. Elev. 166.5
 Q(50) = 3424 cfs

PRECAST PRESTRESSED UNITS

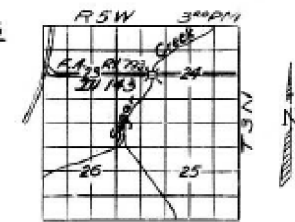
f_c = 3,000 p.s.i.
 f_{ci} = 4,000 p.s.i.
 f_s = 270,000 p.s.i. (7/8" Strands)
 f'_s = 189,000 p.s.i. (7/8" Strands)

FIELD UNITS PRECAST UNITS

f_c = 1,400 p.s.i. f_c = 4,500 p.s.i.
 f_s = 20,000 p.s.i. (Reinf.) f_s = 1,800 p.s.i.
 f_s = 20,000 p.s.i. (Struct.) f_s = 20,000 p.s.i.
 n = 10 n = 8

Loading: HS20-44

Allow 25% for additional future W. S.



LOCATION SKETCH

GENERAL PLAN & ELEVATION

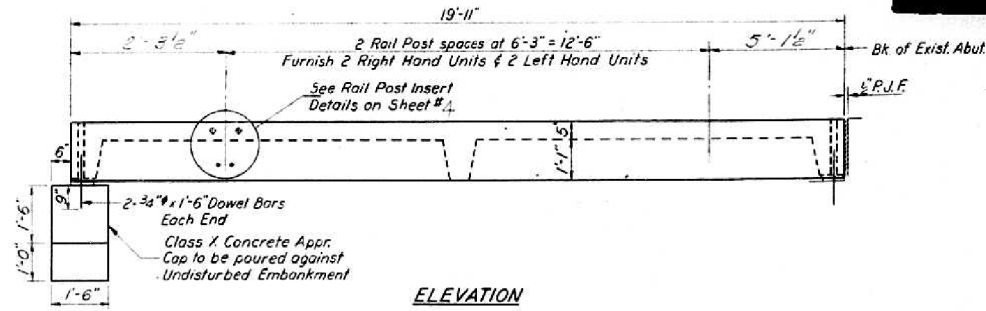
F.A. RTE. 793 OVER SUGAR CREEK
 F.A. RTE. 793 SECTION 11 40BR

MADISON COUNTY
 STATION 56+45

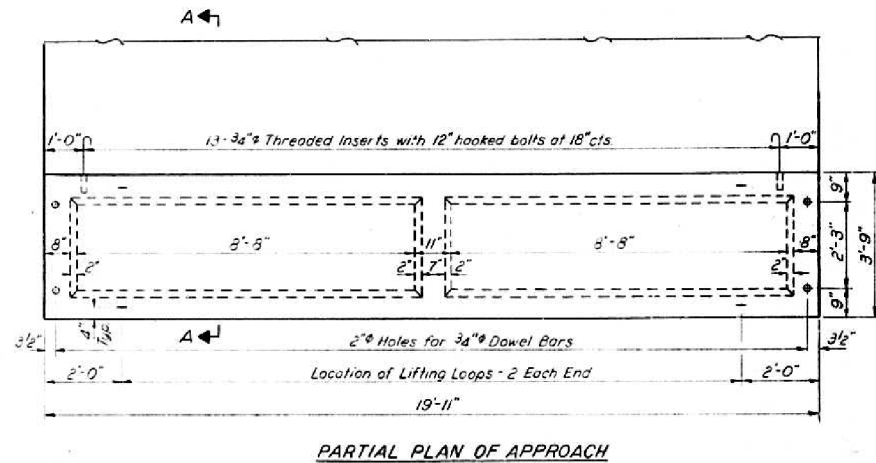
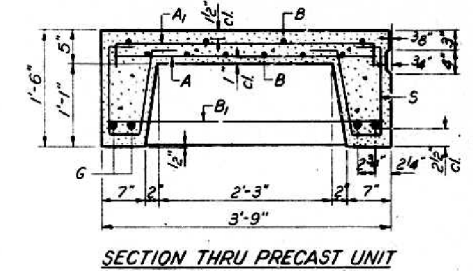
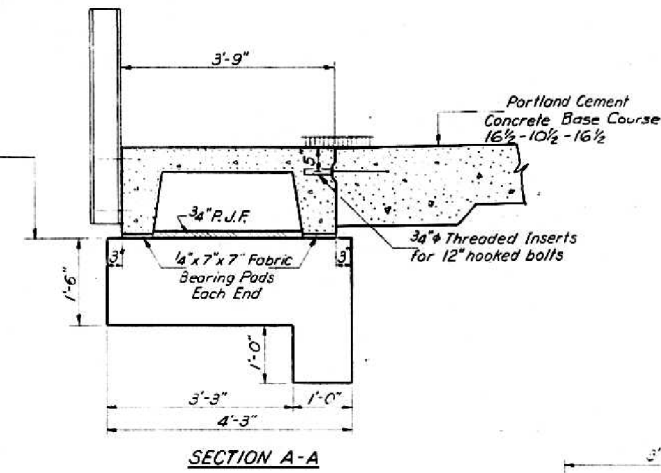
DESIGNED: [Signature]
 CHECKED: F. Mercado
 DRAWN: F. Mercado
 EXAMINED: [Signature]
 PASSED: [Signature]
 DATE: April 27 1971

Rev. 12-6-71 W. H. Rev. NYL/AB 2-21-75

FOR INFORMATION ONLY



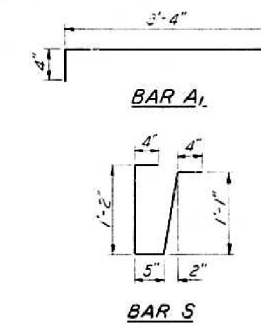
Elev. 167.02 (W)
 Elev. 167.08 (E)



BAR LIST - ONE UNIT

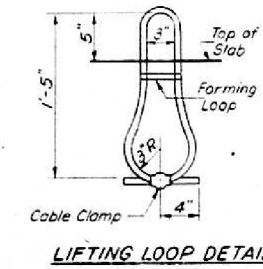
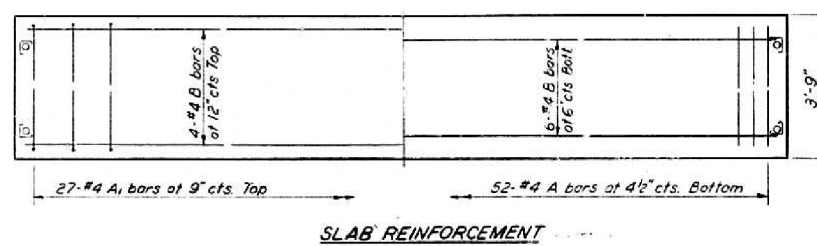
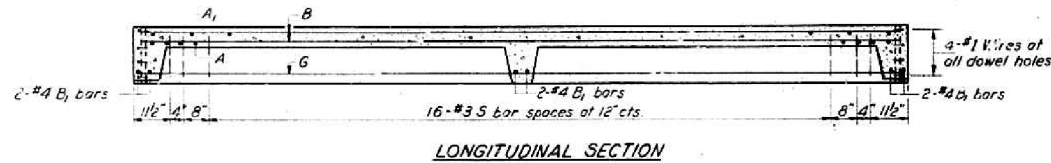
Reinforcement to be cast into slab

Bar	No	Size	Length	Shape
A	52	#4	3'-3"	—
A ₁	27	#4	4'-0"	—
B	10	#4	19'-6"	—
B ₁	6	#4	3'-6"	—
G	4	#10	19'-6"	—
S	42	#3	3'-4"	U



NOTES

Unless otherwise approved by the Engineer, lifting loops shall be 2", 6x19 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 12" hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab". The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.



STRESSES

f_c = 4,500 psi.
 f_t = 1,800 psi.
 f_s = 20,000 psi.
 n = 8

LOADING HS-20

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq Ft.	299
Class X Concrete	Cu Yds.	1.6

APPROACH DETAILS

F.A. RT. 793 SEC 40BR
 MADISON COUNTY
 STA. 56+45.00

DESIGNED: *John W. Lee*
 CHECKED: *F. Mercado*
 DRAWN: *J.L. Armstrong*
 CHECKED: *John W. Lee*

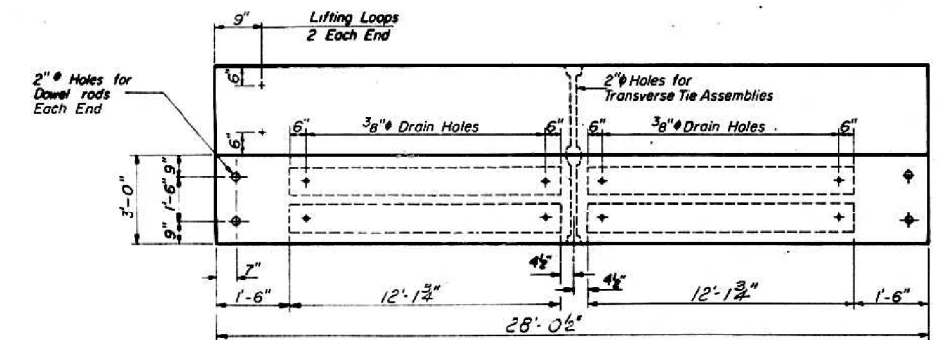
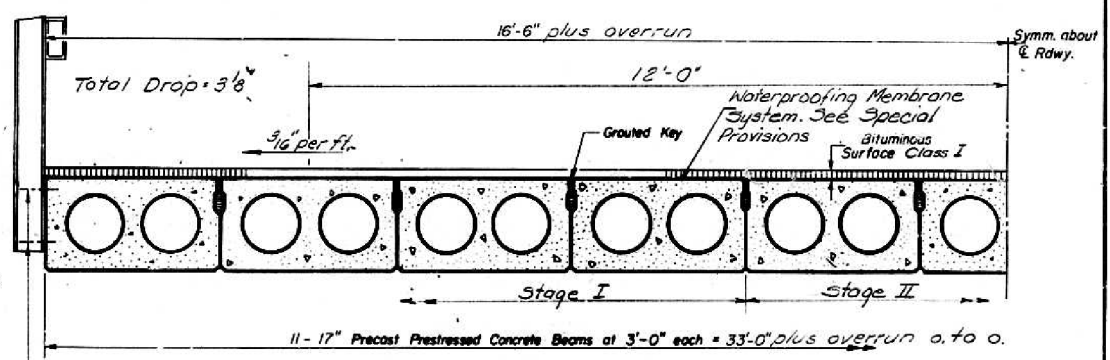
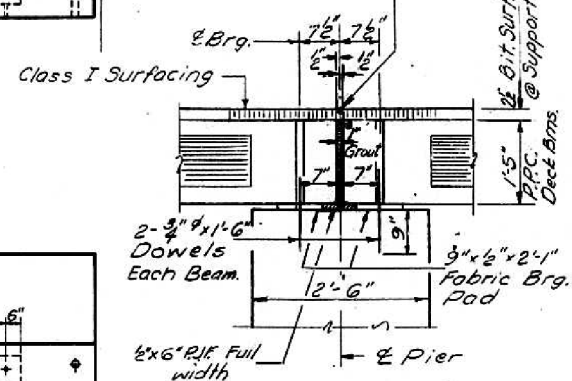
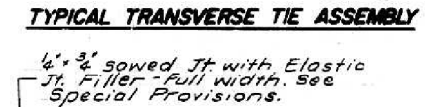
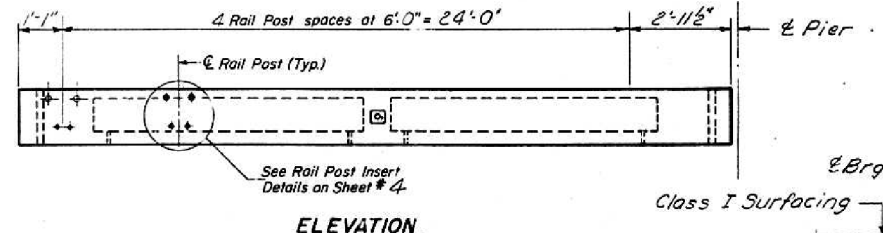
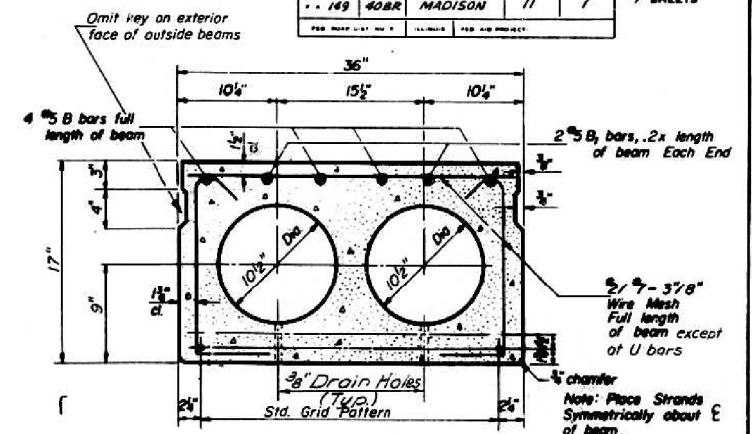
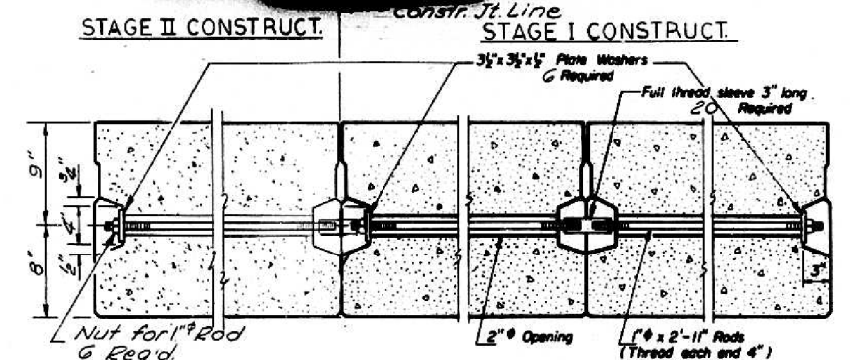
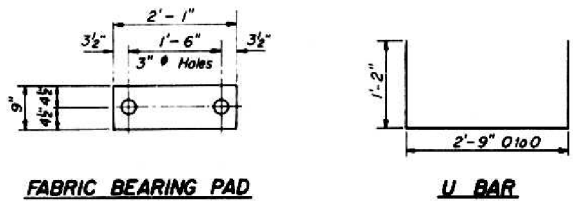
APPROVED: *Richard H. Osterman*
 CHIEF ENGINEER

APR 27 1971

AP-1 20' Precast Appr Unit (RT-1)

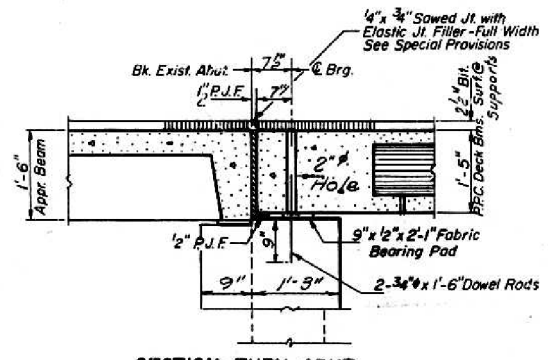
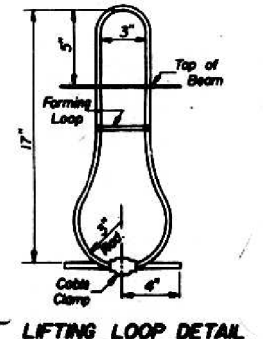
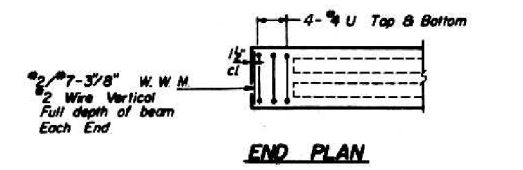
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
149	40BR	MADISON	11	7	7 SHEETS



SEC. THRU PIER
 * 1" Joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar. This dimension may vary plus or minus to accommodate tolerance in beam lengths

Cast in Concrete Anchor Device For Railpost Details see Sh. #4
 For Stage Construction see Sh. #7



GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.115 sq. in. Lifting loops shall be 1/2" diameter, G22 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 15,700 lbs. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar. After beams have been erected, holes for dowel anchors shall be drilled into sub-structure. Dowel bars shall be grouted in place. Dowel rods shall be ASTM A306 or A615 bars. Transverse tie rods shall be ASTM A306 Grade 70-80. After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation: A153. Cost of reinforcement and accessories cast into the beam of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams." Ends of beams shall be aligned at the abutment joints. Any linear variation in the beam lengths shall be placed at the Pier joint.

BILL OF MATERIAL

Precast Prestressed Concrete Deck Beams	Sq. Ft.	1851
Removal of Existing Superstructure	Each	1

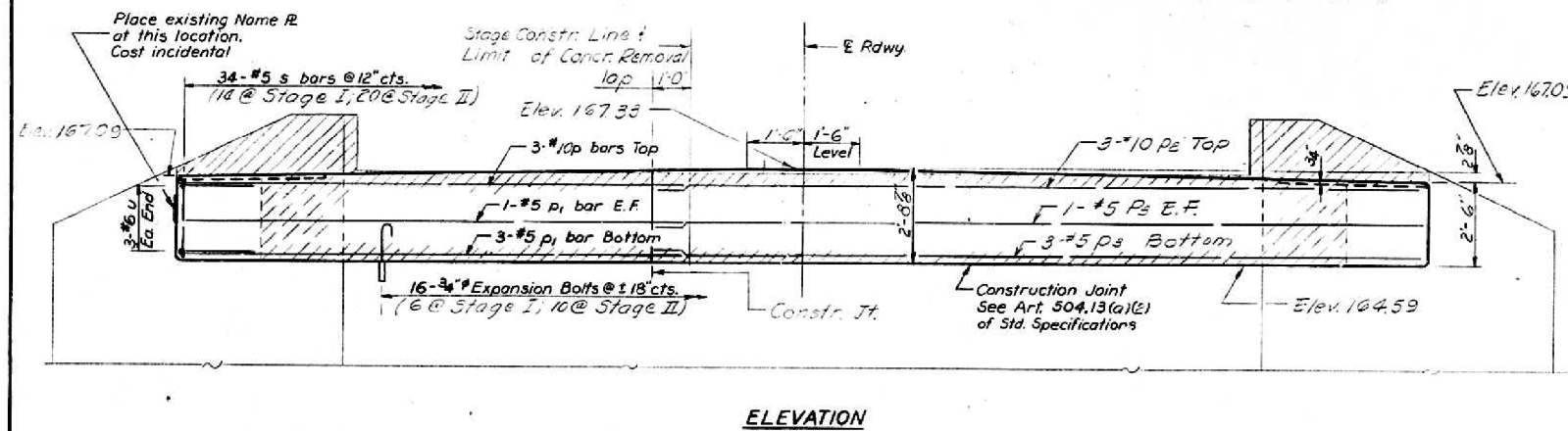
DESIGNED: *[Signature]*
 CHECKED: F. Mercado
 DRAWN: J. L. Armstrong
 EXAMINED: *[Signature]*
 PASSED: *[Signature]*
 APPROVED: *[Signature]*

PD-1-S 11-19-63 Rev 5-20-68
 SR-1 17" P.P.C. Dk Bms

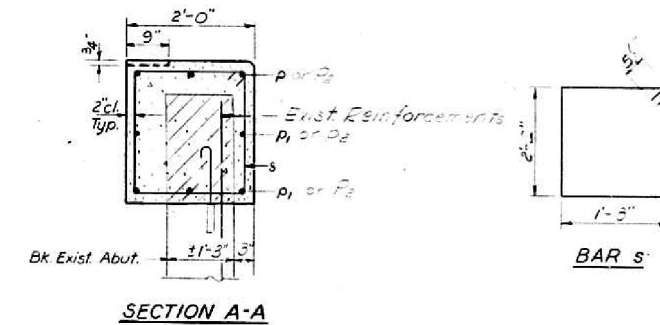
SUPERSTRUCTURE
 F.A. RT. 793 SEC. 40 B.R.
 MADISON COUNTY
 STA 56+45.00

FOR INFORMATION ONLY

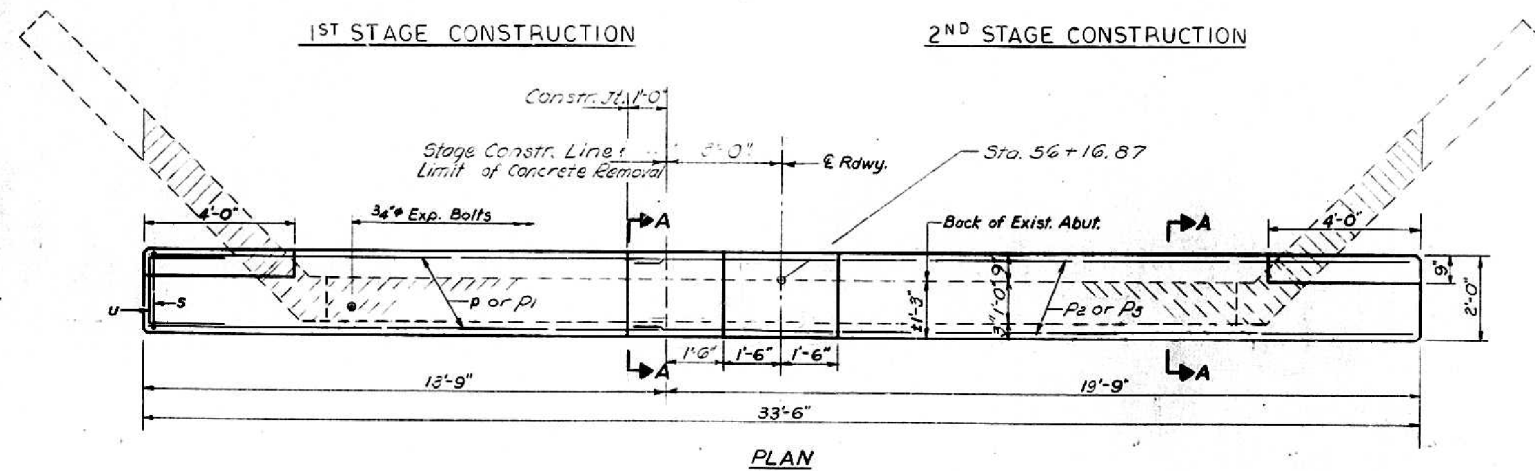
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
189	40BR	MADISON	11	9	7 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



ELEVATION



SECTION A-A



PLAN

WEST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p	2	#10	32.5'	—
p1	2	#5	37.5'	—
p2	5	#5	20.6'	—
p3	5	#5	20.6'	—
s	3	#5	37.7'	□
u	2	#6	54.7'	□
Class X Concrete			Cu. Yds.	7.7
Reinforcement Bars			Lbs	270
Expansion Bolts #3/8"			Each	2
Concrete Removal			Cu Yds	4.5

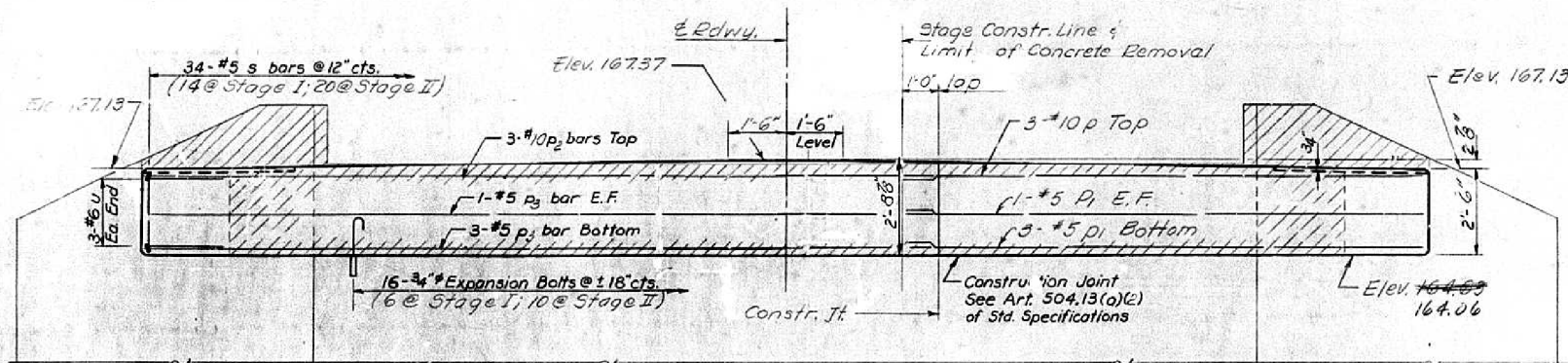
DESIGNED: *John L. Armstrong*
 CHECKED: *F. Mercado*
 DRAWN: *J.L. Armstrong*
 EXAMINED: *April 27 1971*
 PASSED: *Richard J. Holterman*

NOTE
 Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
 Expansion bolts shall be anchored in sound concrete.
 All edges shall have standard 3/4" chamfers except as noted.
 QUANTITIES INCLUDE 1 CU. YD. CLASS "X" CONCRETE TO REPAIR WING WALLS AS NECESSARY AND AS DIRECTED BY THE ENGINEER.

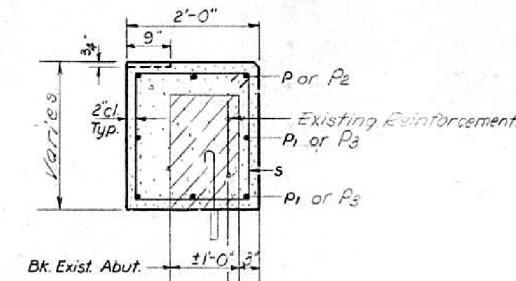
WEST ABUTMENT
 F.A. RT. 793 SEC. 40 BR
 MADISON COUNTY
 STA. 56+45.00

FOR INFORMATION ONLY

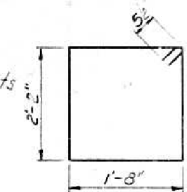
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
159	40BR	MADISON	11	10
SHEET NO. 7 SHEETS				



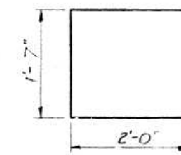
ELEVATION



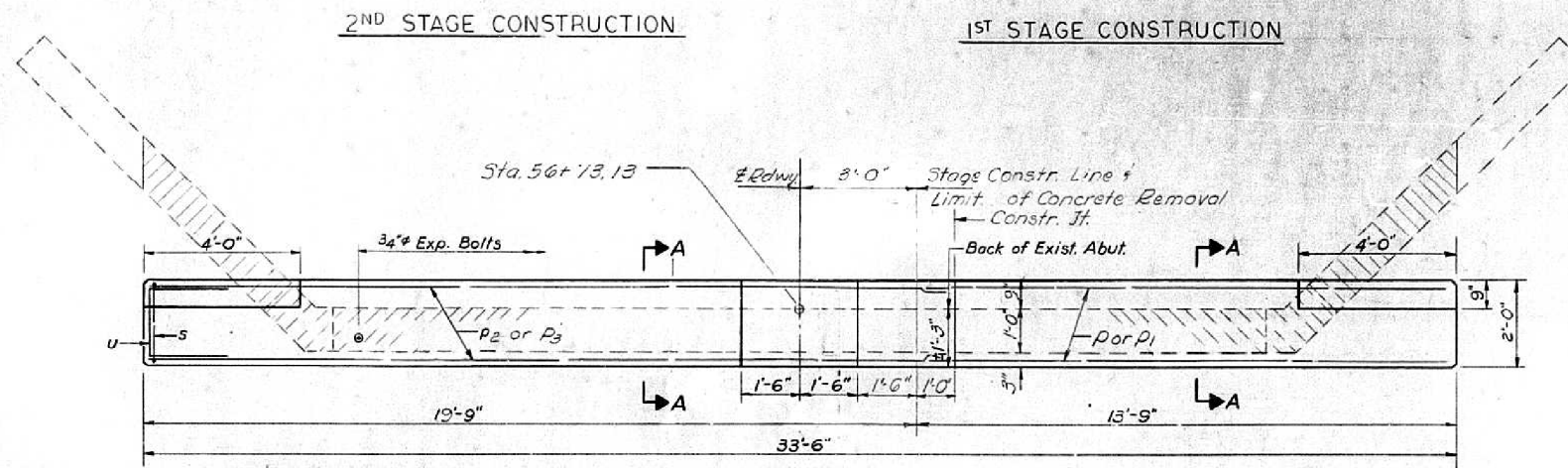
SECTION A-A



BAR S



BAR U



PLAN

EAST ABUT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
P	3	#4	13'-0"	—
P1	5	#5	13'-0"	—
P2	3	#10	22'-6"	—
P3	5	#5	22'-6"	—
S	34	#5	8'-7"	□
U	3	#5	5'-0"	□
Class X Concrete			Cu.Yds.	7.7
Reinforcement Bars			Lbs	370
Expansion Bolts 3/4"			Each	3
Concrete Removal			Cu.Yds.	4.5

DESIGNED: *Arvo Umm*
 CHECKED: *F. Mercado*
 DRAWN: *J.L. Armstrong*
 CHECKED: *Arvo Umm*

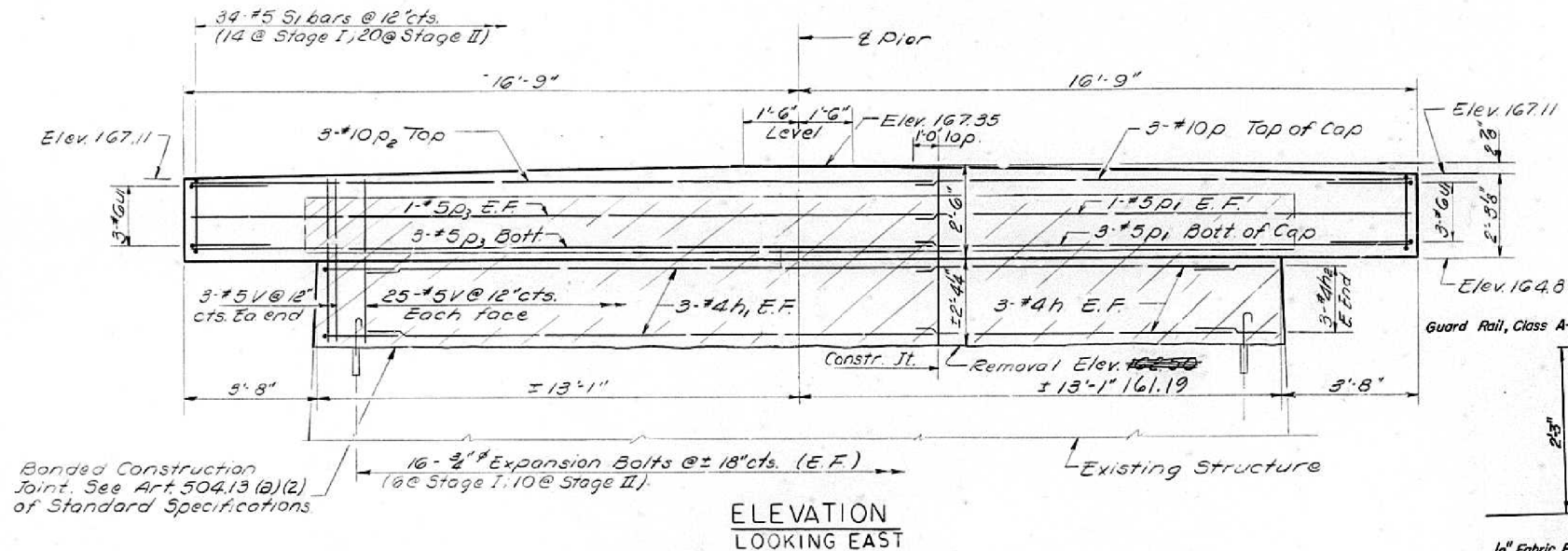
APRIL 27 1971
 EXAMINED: *Richard H. Hoyer*
 PASSED: *H. B. Bauman*
 APPROVED: *Richard H. Hoyer*

NOTE
 Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
 Expansion bolts shall be anchored in sound concrete.
 All edges shall have standard 3/4" chamfers except as noted.

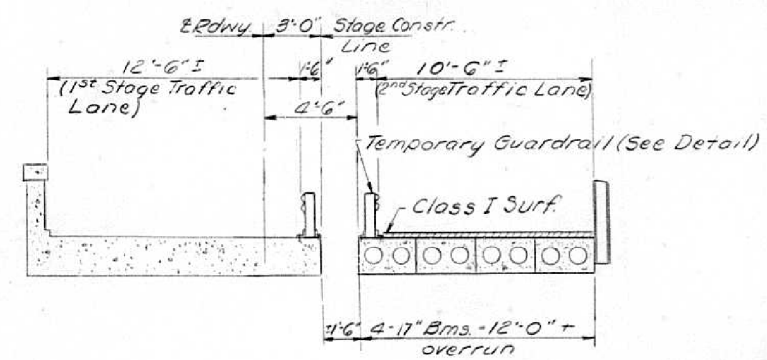
QUANTITIES INCLUDE 1 CU. YD. CLASS "X" CONCRETE TO REPAIR WING WALLS AS NECESSARY AND AS DIRECTED BY THE ENGINEER.

EAST ABUTMENT
 F.A. RT. 793 SEC. 40 P.R.
 MADISON COUNTY
 STA. 56+45.00

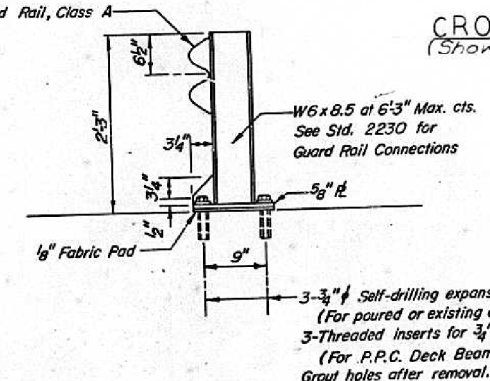
FOR INFORMATION ONLY



ELEVATION
LOOKING EAST



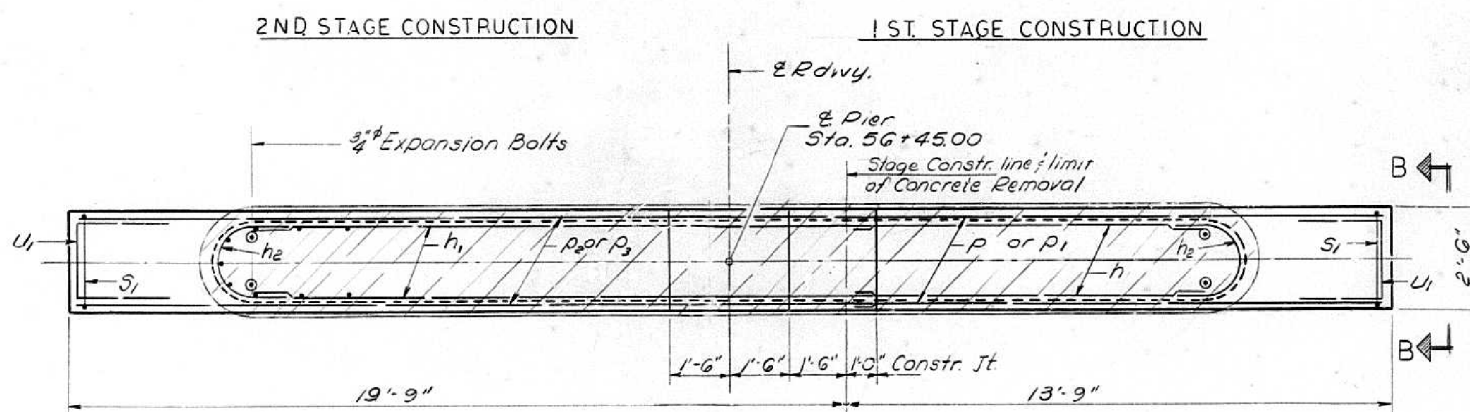
CROSS SECTION
(Showing Stage Constr.)



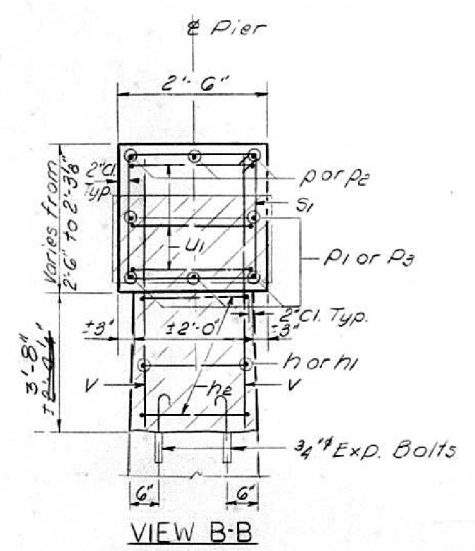
TEMPORARY GUARD RAIL DETAIL
See Special Provisions

BILL OF MATERIAL

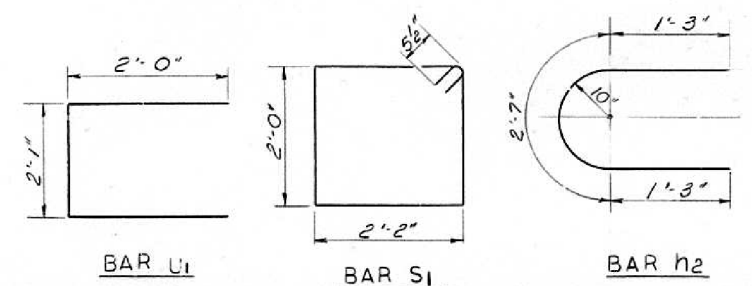
Bar	No	Size	Length	Shape
h	6	#4	9'-0"	U
h1	6	#4	16'-0"	U
h2	6	#4	4'-7"	U
p	3	#10	13'-6"	—
p1	5	#5	13'-6"	—
p2	3	#10	20'-6"	—
p3	5	#5	20'-6"	—
S1	32	#5	9'-3"	□
U1	6	#6	6'-1"	□
V	56	#5	4'-0"	—
Class X Concrete			Cu Yds.	121
Reinforcement Bars			Lbs.	1350
Expansion Bolts 3/4" Each				32
Concrete Removal			Cu Yds.	9



PLAN



VIEW B-B



PIER
F.A. RT. 795 SEC. 40 BR
MADISON COUNTY
STA 56+45.00

DESIGNED: *Ann Yum Lee*
CHECKED: *E. Mercado*
DRAWN: *F. Mercado*
CHECKED: *Ann Yum Lee*

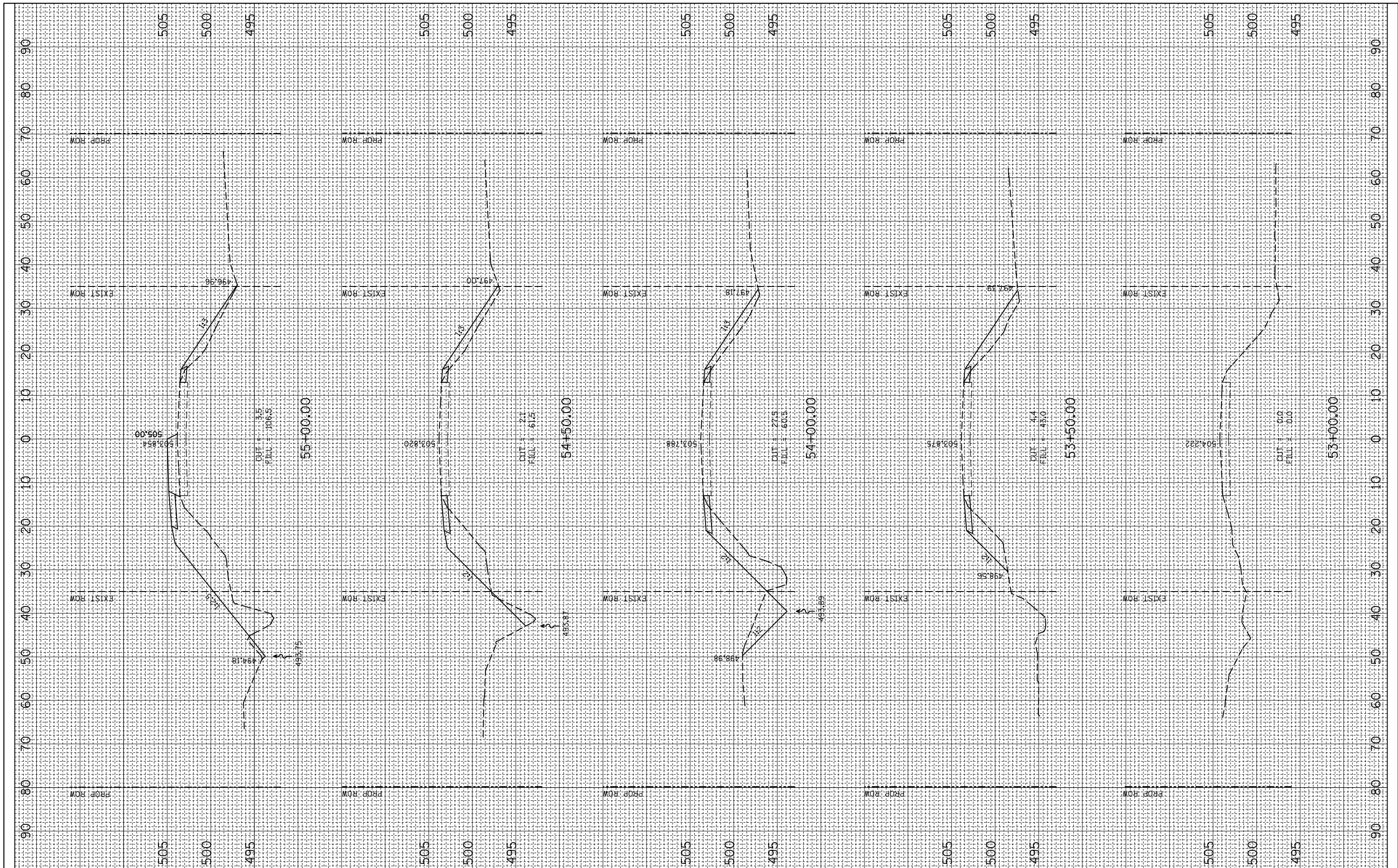
EXAMINED: *April 27, 1971*
PASSED: *W. Baumann*
APPROVED: *Richard H. Hollerman*

REV 6-7-71 WH

FOR INFORMATION ONLY

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =
FILEL

USER NAME = *USER*
PLOT SCALE = *SCALE*
PLOT DATE = *DATE*

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

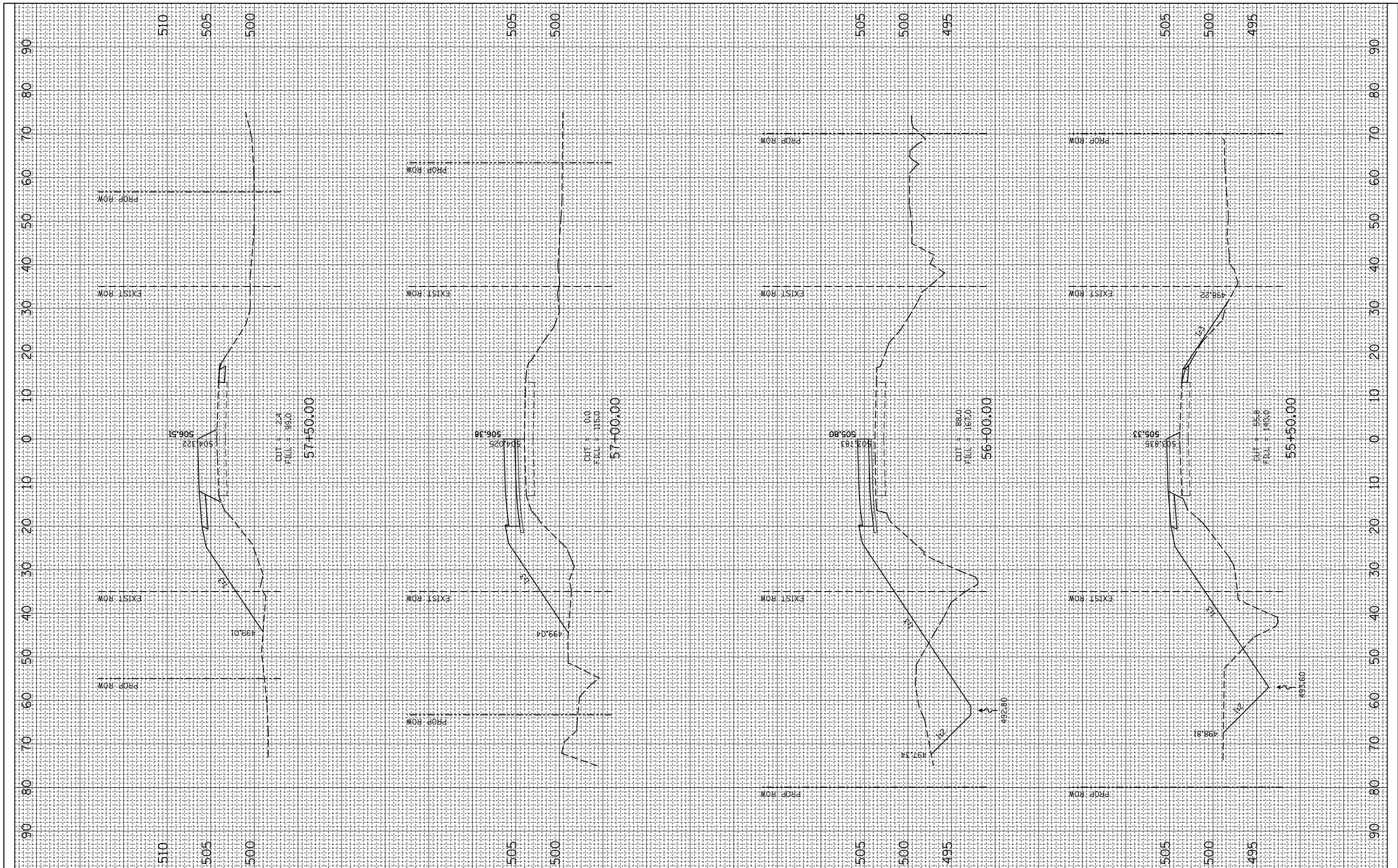
STAGE I CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 51+50.00 TO STA. 53+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40 BR-1	MADISON	72	61
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = *FILEL*

USER NAME = *USER*

PLOT SCALE = *SCALE*

PLOT DATE = *DATE*

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

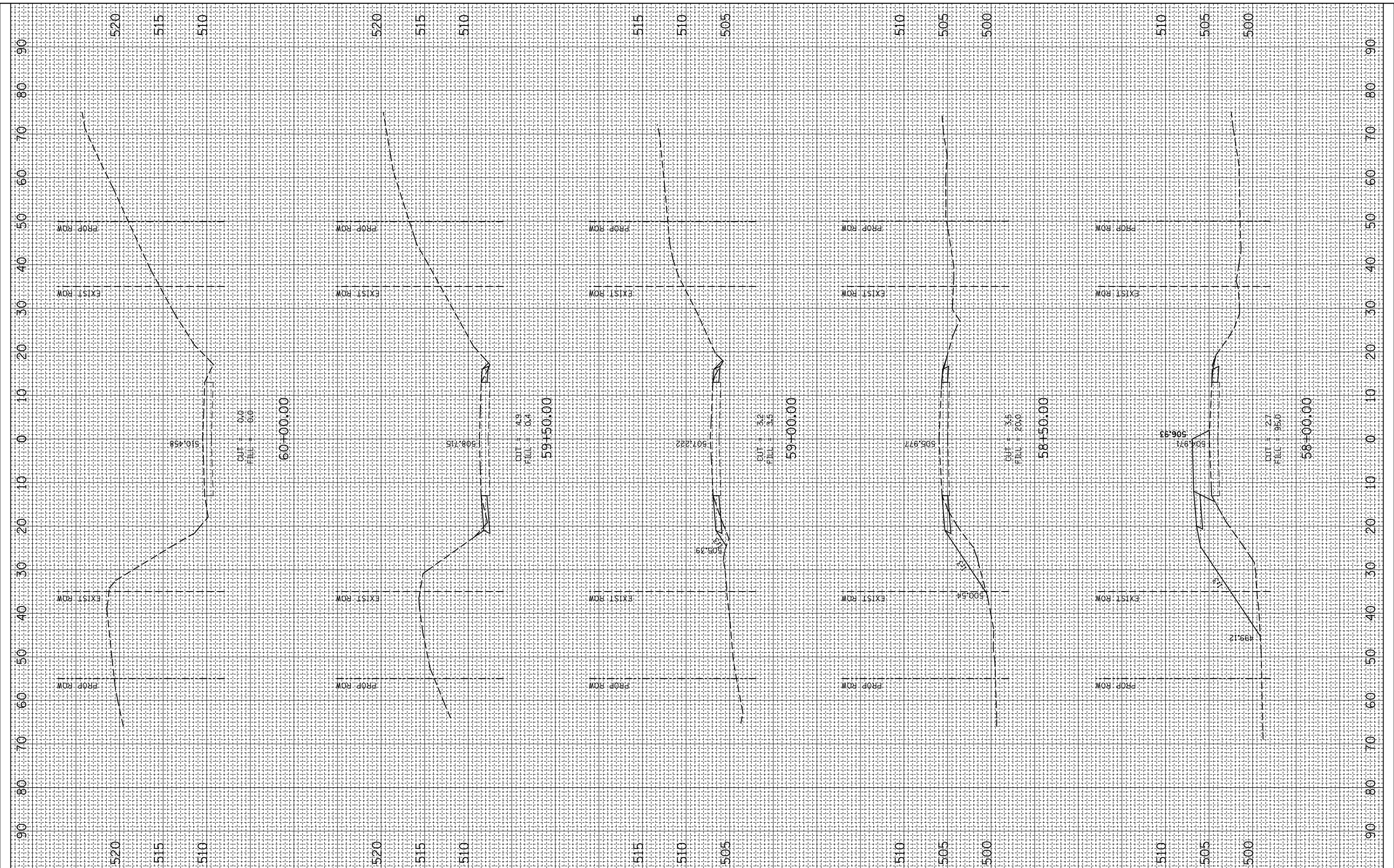
STAGE I CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 53+50.00 TO STA. 55+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40 BR-1	MADISON	72	62
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =
FILEL

USER NAME = *USER*
PLOT SCALE = *SCALE*
PLOT DATE = *DATE*

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

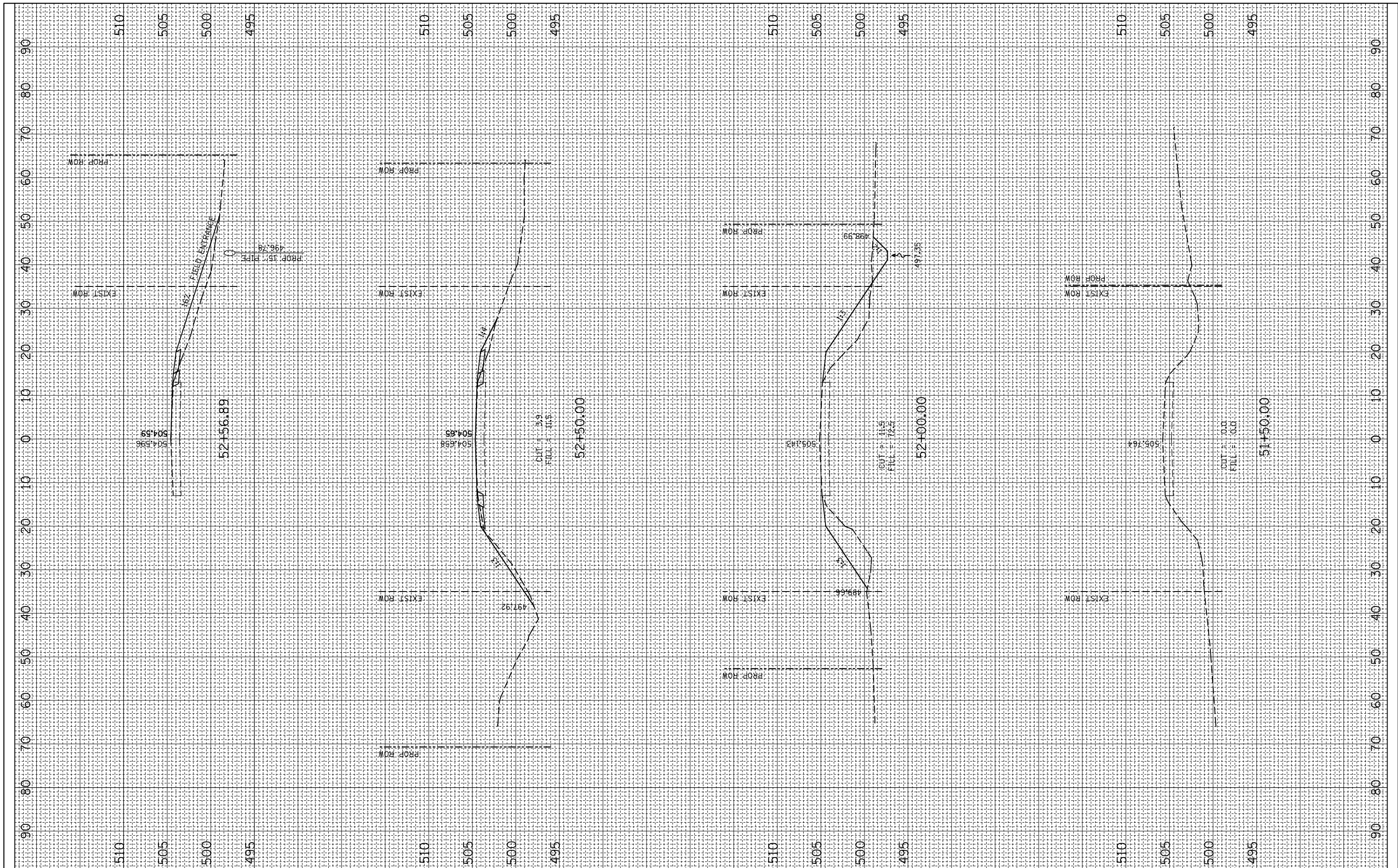
STAGE I CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 56+00.00 TO STA. 59+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40 BR-1	MADISON	72	63
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =
FILEL

USER NAME = *USER*
PLOT SCALE = *SCALE*
PLOT DATE = *DATE*

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

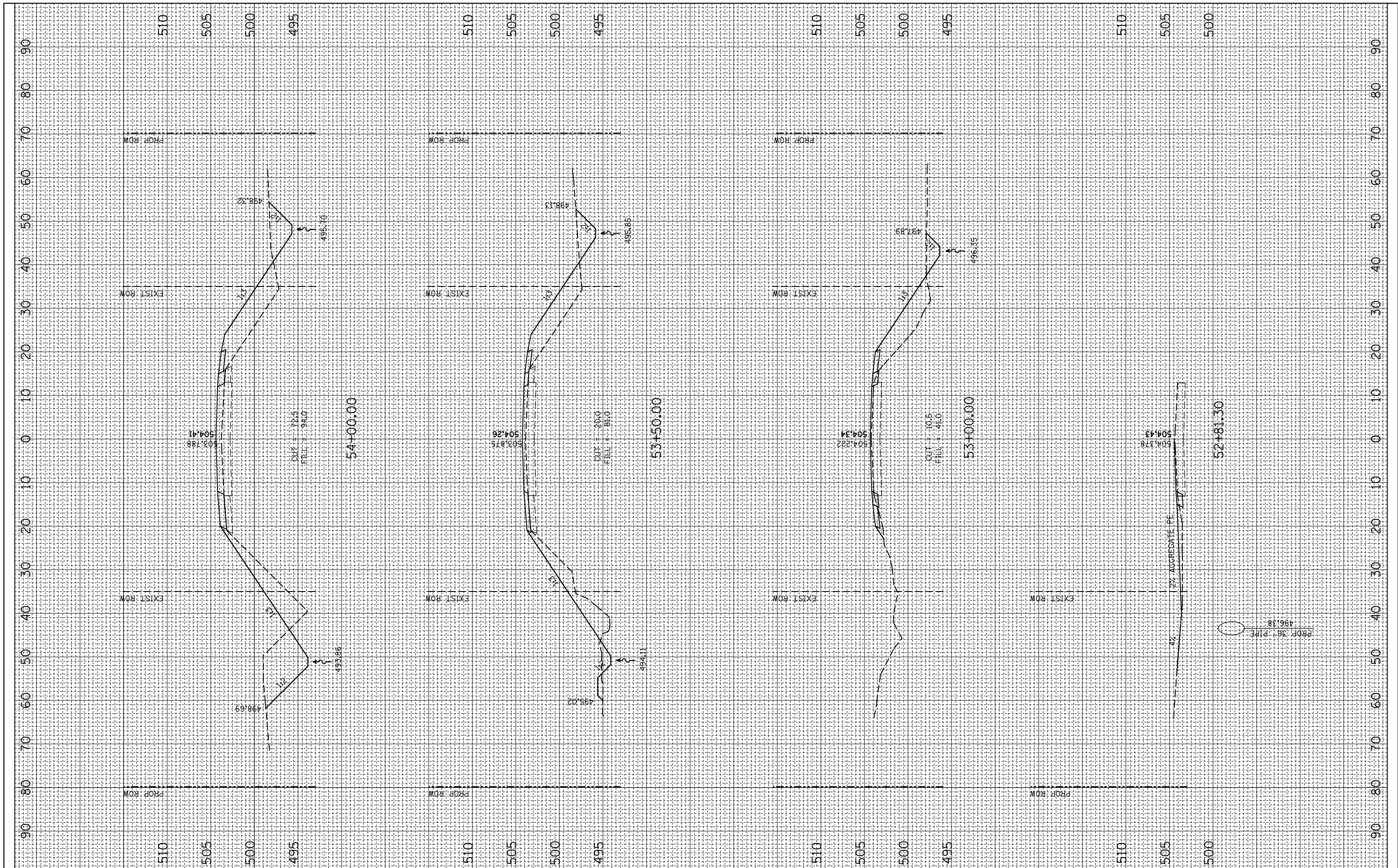
FINAL CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 51+50.00 TO STA. 53+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40 BR-1	MADISON	72	64
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

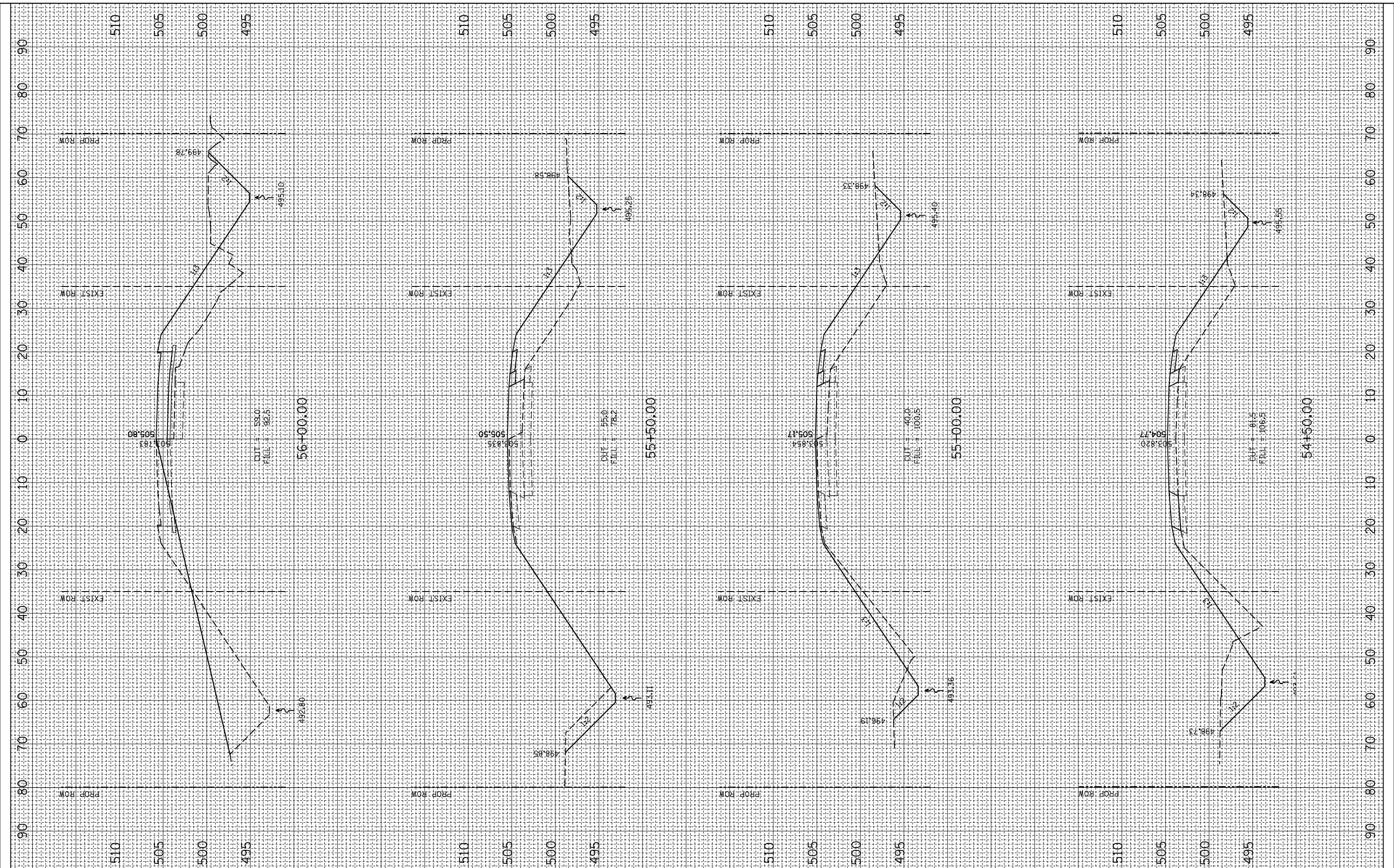
FINAL CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 51+50.00 TO STA. 53+00.00

F.A.P. RTE. 793	SECTION 40 BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 65
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

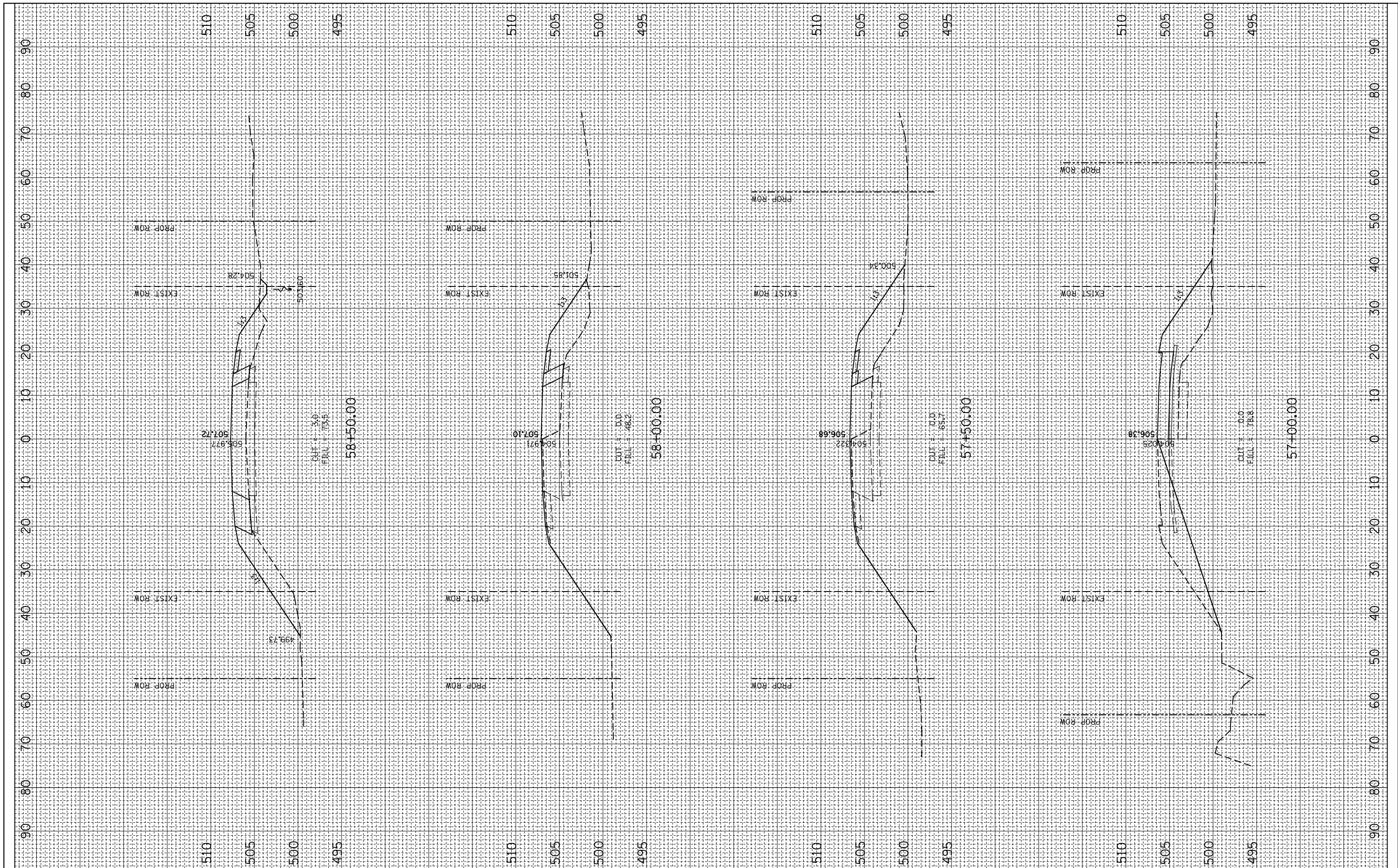
FINAL CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 53+50.00 TO STA. 55+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40 BR-1	MADISON	72	66
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = *FILEL*

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

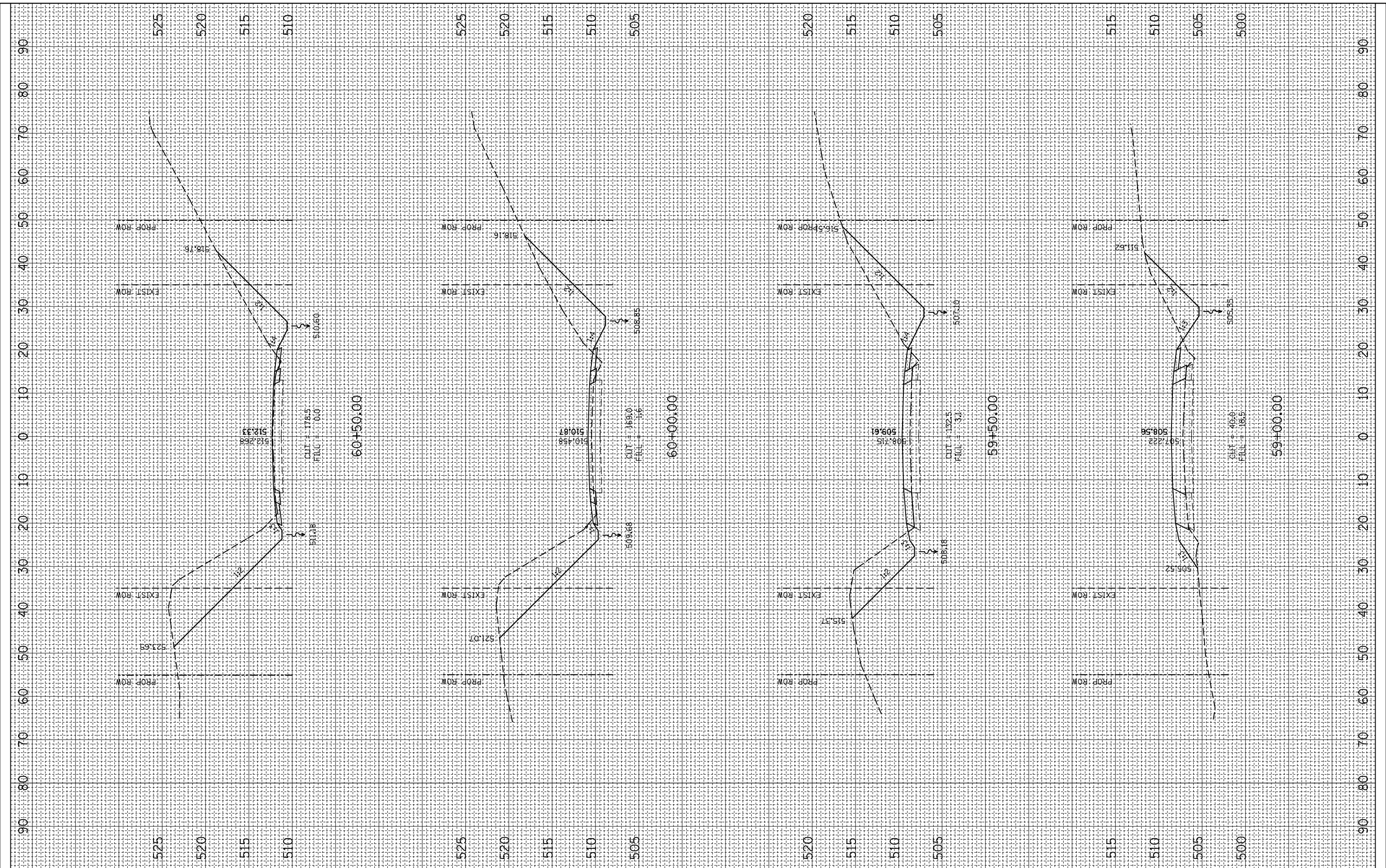
FINAL CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 56+00.00 TO STA. 59+00.00

F.A.P. RTE. 793	SECTION 40 BR-1	COUNTY MADISON	TOTAL SHEETS 72	SHEET NO. 67
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = *FILEL*

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

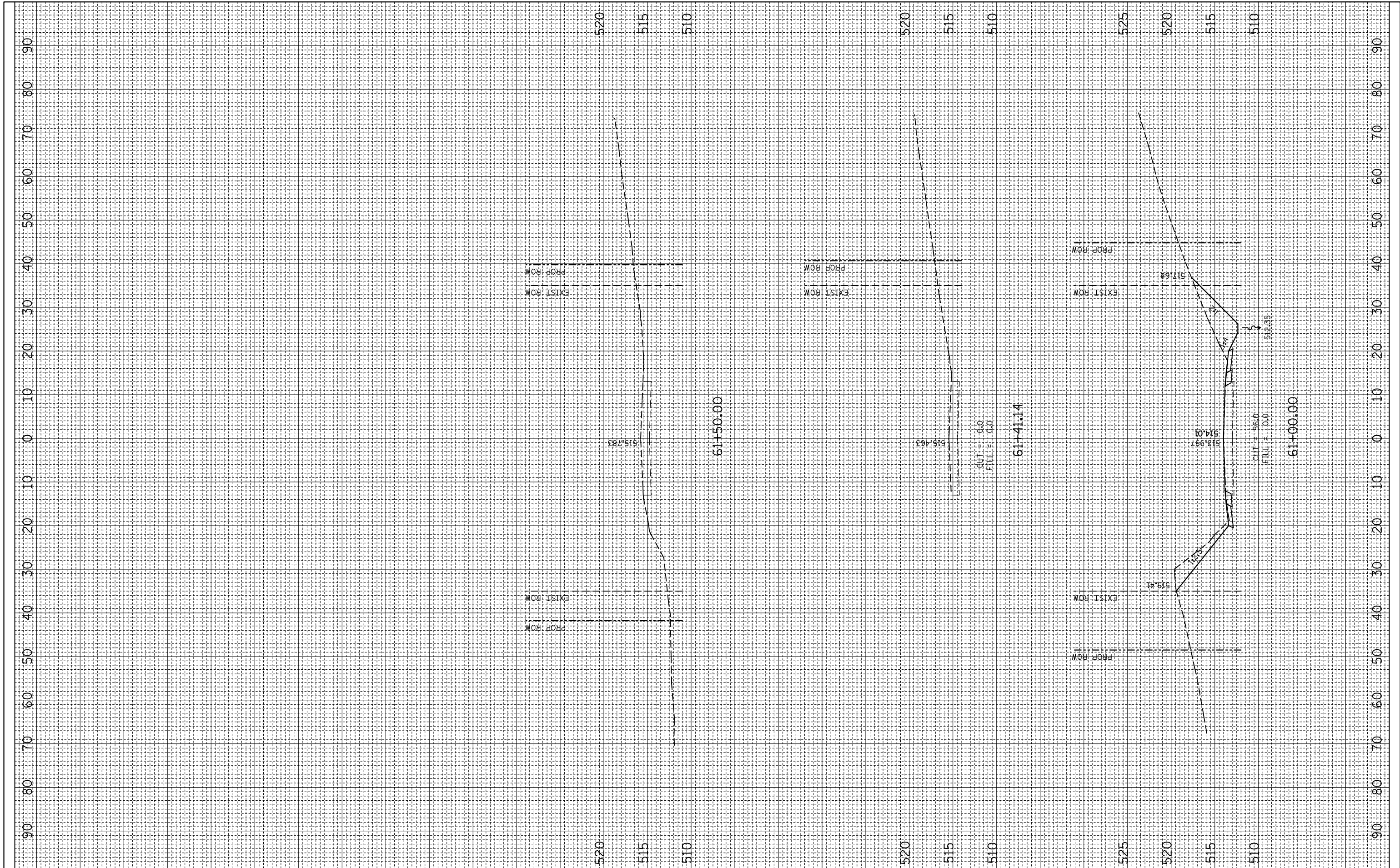
FINAL CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 59+50.00 TO STA. 61+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40 BR-1	MADISON	72	68
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

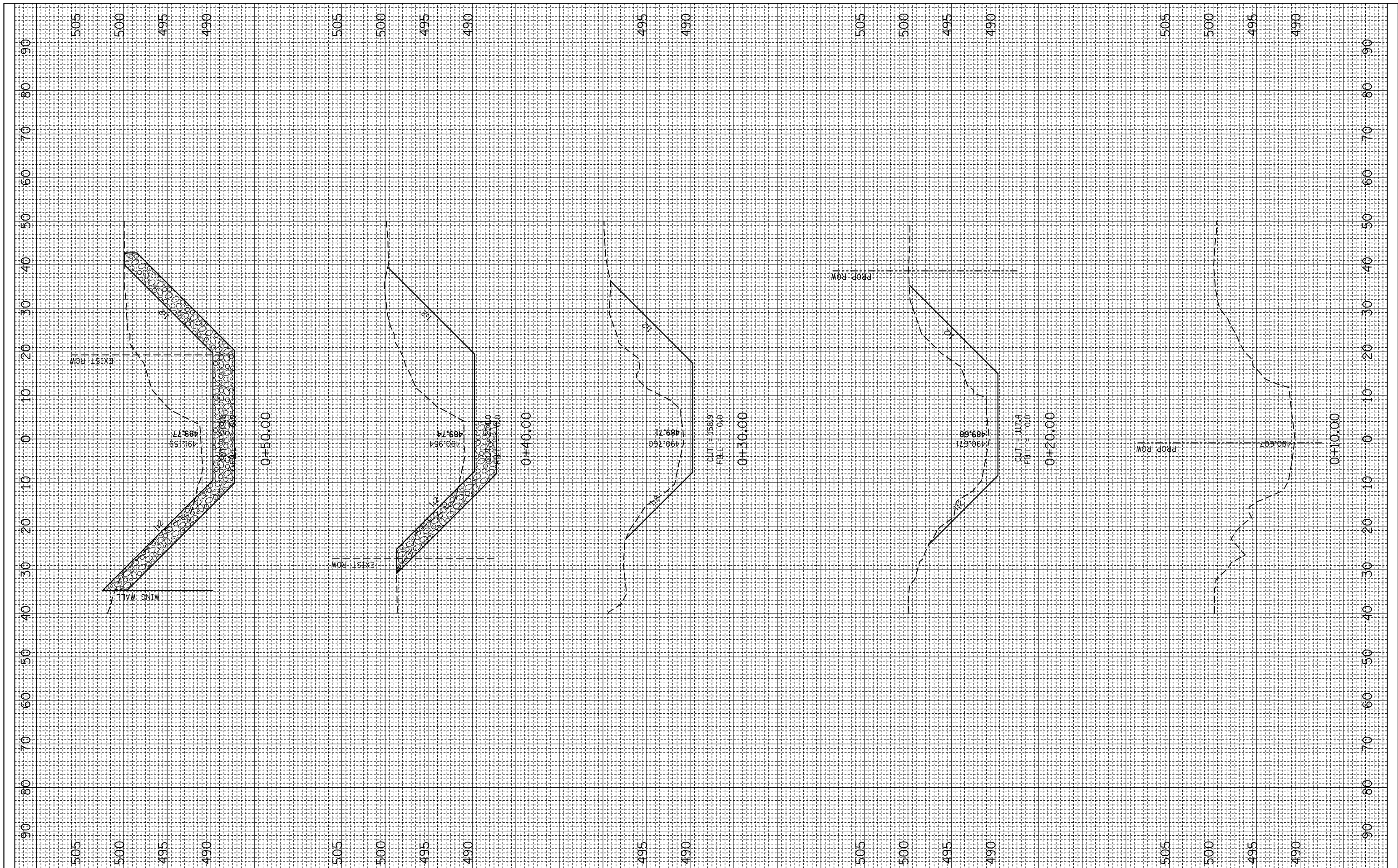
FINAL CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 59+50.00 TO STA. 61+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40 BR-1	MADISON	72	69
CONTRACT NO. 76A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



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PLOT SCALE = *SCALE*
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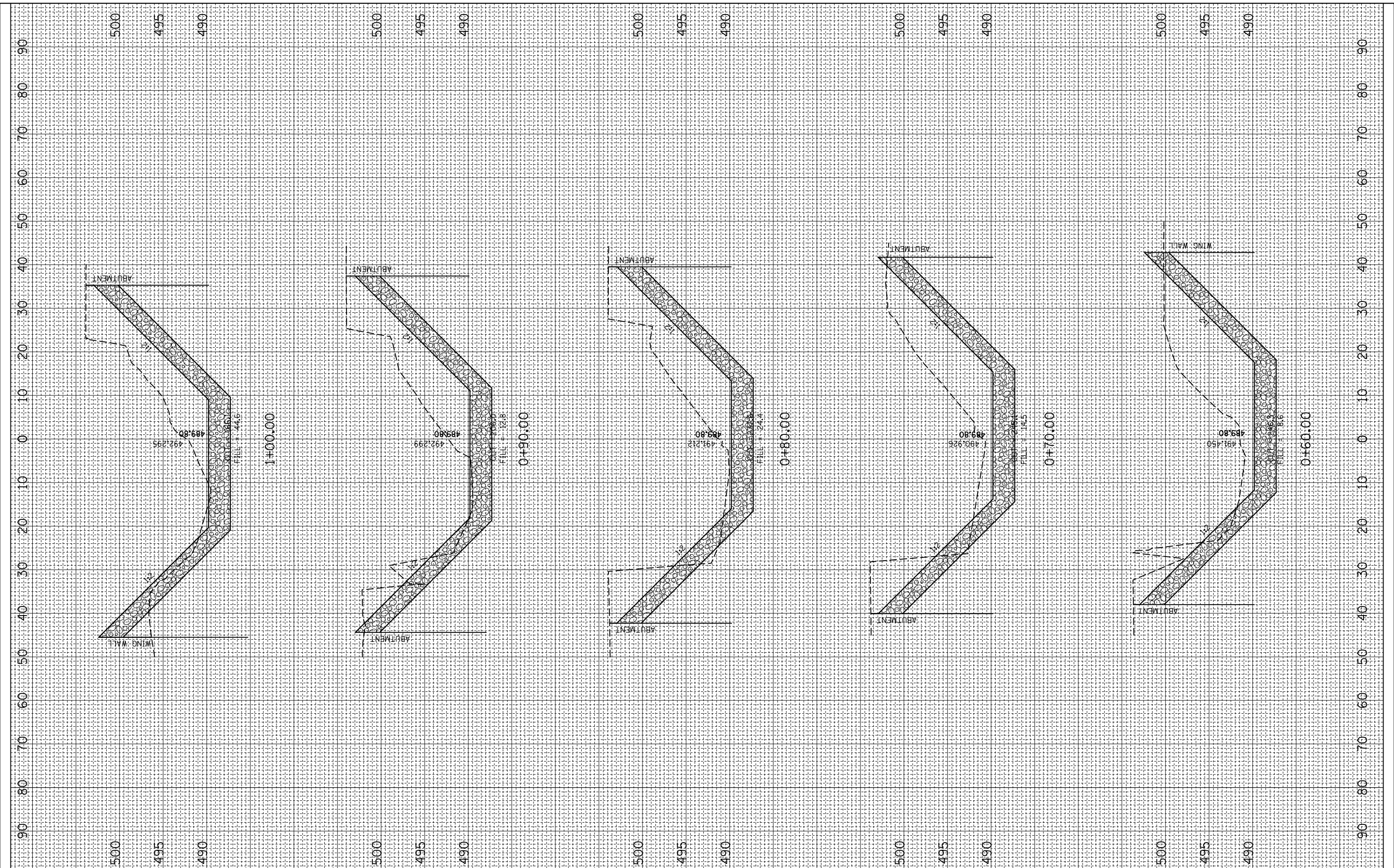
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CHANNEL CROSS SECTIONS
SCALE: SHEET NO. 1 OF 3 SHEETS STA. 0+10.00 TO STA. 0+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	70
CONTRACT NO. 76A36				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = *FILEL*

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PLOT SCALE = *SCALE*

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

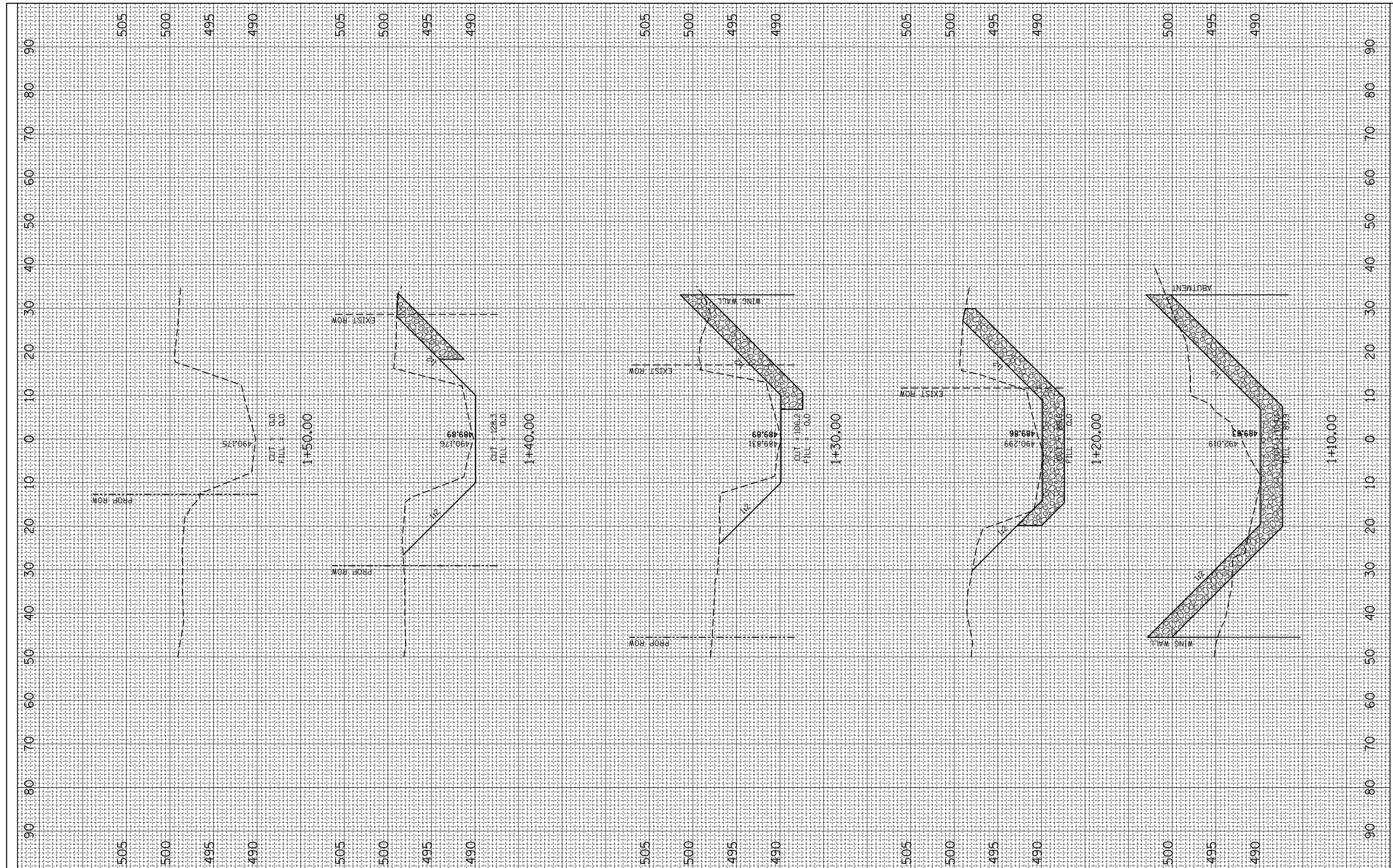
CHANNEL CROSS SECTIONS

SCALE: SHEET NO. 2 OF 3 SHEETS STA. 0+60.00 TO STA. 1+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	71
CONTRACT NO. 76A36				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = *FILEL*

USER NAME = *USER*

PLOT SCALE = *SCALE*

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: SHEET NO. 3 OF 3 SHEETS STA. 1+10.00 TO STA. 1+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
793	40BR-1	MADISON	72	72
CONTRACT NO. 76A36				
ILLINOIS FED. AID PROJECT				