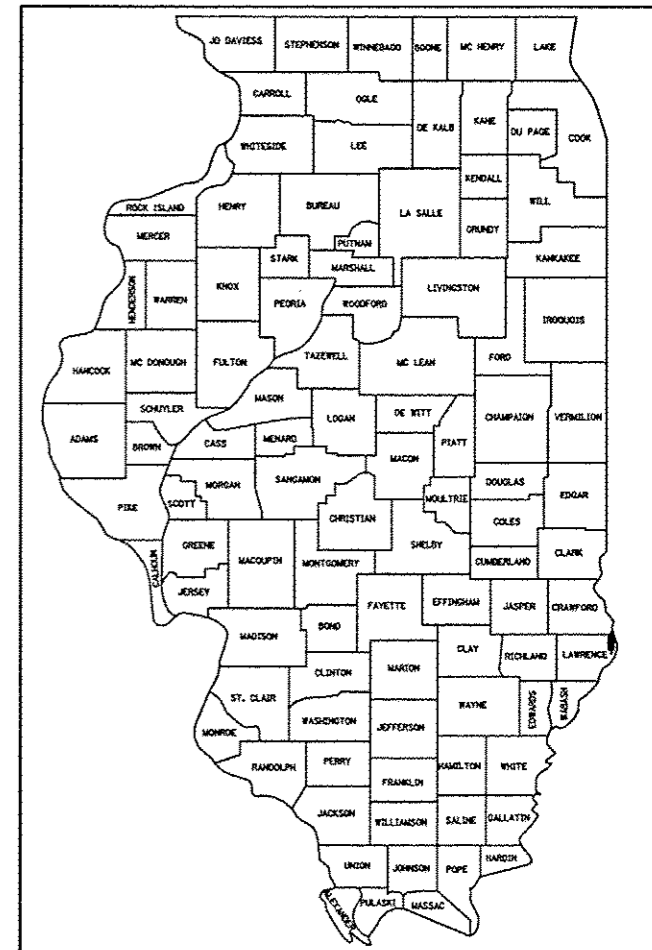


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	109B-1	LAWRENCE	34	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 74105		

D-97-034-05 #34+1=35

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS
FAP RTE 781 (IL 33)
SECTION 109B-1
LAWRENCE COUNTY
C - 97 - 069 - 05
STRUCTURE REPLACEMENT
OVER UNNAMED STREAM

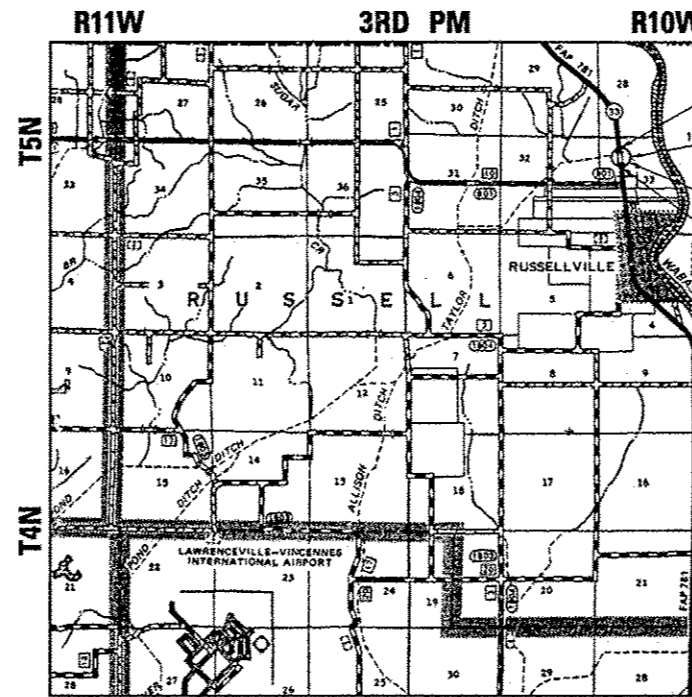


LOCATION OF SECTION INDICATED THUS:

FUNCTIONAL CLASSIFICATION: RURAL MINOR ARTERIAL
DESIGN SPEED: 55 mph
POSTED SPEED: 55 mph
ADT: 859(2011)
PV: 88.7%
SU: 5.0%
MU: 6.3%

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
ROADWAY PLANS	
1.	COVER SHEET
2.	GENERAL NOTES
3.	STANDARDS
4.	SUMMARY OF QUANTITIES
5.	TYPICAL SECTIONS
6.	SCHEDULES OF QUANTITIES
7.-9.	FAP RTE 781 (IL 33) PLAN AND PROFILE
10.-11.	STAGE CONSTRUCTION PLANS
12.	STAGE CONSTRUCTION DETAILS
13.	EROSION CONTROL AND DRAINAGE PLAN
14.	MISCELLANEOUS DETAILS
STRUCTURE PLANS	
15.	GENERAL PLAN
16.	GENERAL DATA
17.-18.	STAGE CONSTRUCTION DETAILS
19.-20.	BOX CULVERT DETAILS
21.	STEEL SHEET PILING WALL DETAILS
22.	BAR SPLICER ASSEMBLY DETAILS
23.	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
24.	BORING LOGS
EXISTING STRUCTURE PLANS	
25.-28.	EXISTING STRUCTURE PLANS
CROSS SECTIONS	
29.-34.	FAP 781 (IL 33) CROSS SECTIONS

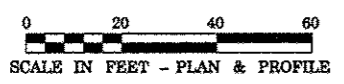


IMPROVEMENTS BEGIN STA 701+89.5

STA 705+40 PROPOSED SN 051-2008 TRIPLE 11' SPAN x 9' HEIGHT BOX CULVERT

EXISTING SN 051-0035

IMPROVEMENTS END STA 709+10



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.

MICROFILMED _____
 REEL NUMBER _____
 AWARDED _____
 RESIDENT ENGINEER _____
 AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS _____

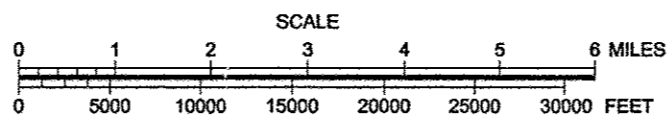
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

ESCA
CONSULTANTS, INC.

 CIVIL & STRUCTURAL ENGINEERS
 URBANA, ILLINOIS
 ESCA JOB NO. 933.13



DATE: 083011
 ILLINOIS PROFESSIONAL LICENSE NO. 37421
 (EXPIRATION DATE: 11-30-11)



DESIGN DESIGNATION N.A.

DISTRICT 7 NO. (217) 342-3951
 PROJECT ENGINEER: TOM RONAN
 UNIT CHIEF:
 TOWNSHIP: RUSSELL
 CONTRACT NO.: 74105

GROSS LENGTH = 720.5 FT. = 0.136 MI.
NET LENGTH = 720.5 FT. = 0.136 MI.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED July 2 2014
Roger L. Drishill
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 27 2014
John D. Baranzelli P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

June 27 2014
Omer Osman P.E.
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES, & HIGHWAY STANDARDS
3-4A	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SCHEDULES OF QUANTITIES
7-9	PLAN & PROFILE SHEETS
10-12	STAGE CONSTRUCTION DETAILS
13	EROSION CONTROL & DRAINAGE PLAN
14	MISCELLANEOUS DETAILS
15-20	STRUCTURE PLAN SHEETS & DETAILS
21	SHEET PILING WALL DETAILS
22	BAR SPLICER ASSEMBLY DETAILS
23	TEMPORARY CONCRETE BARRIER DETAILS
24	SOIL BORING LOGS
25-28	EXISTING STRUCTURE PLANS
29-34	CROSS SECTIONS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 34:

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701001-02	OFF-ROAD OPERATIONS, 2L2W, 15' MINIMUM AWAY FROM PAVEMENT EDGE
701006-05	OFF-ROAD OPERATIONS, 2L2W, 15' AWAY TO EDGE OF PAVEMENT
701011-04	OFF-ROAD MOVING OPERATIONS, 2L2W, DAY ONLY
701201-04	LANE CLOSURE, 2L2W, DAY ONLY
701301-04	LANE CLOSURE, 2L2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L2W, MOVING OPERATIONS - DAY ONLY
701321-13	LANE CLOSURE, 2L2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L2W, PAVEMENT WIDENING
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
442201-03	CLASS C AND D PATCHES

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THIS PROJECT IS LOCATED ON FAP 781 (ILLINOIS ROUTE 33) AT STRUCTURE NUMBER 051-0035. STRUCTURE NUMBER 051-0035 IS LOCATED 1.5 MILES SOUTH OF THE CRAWFORD COUNTY LINE IN LAWRENCE COUNTY. THE WORK INCLUDED IN SECTION 109B-1 CONSISTS OF BASE COURSE WIDENING, STRUCTURE REMOVAL, BOX CULVERT CONSTRUCTION, EARTHWORK, PAVEMENT MARKING, TRAFFIC CONTROL, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF UTILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

ANY EXCAVATION NECESSARY FOR CONSTRUCTION OF THE PCC BASE COURSE WIDENING, 8" SHALL BE INCLUDED IN THE COST OF THE PCC BASE COURSE WIDENING, 8" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. PCC BASE COURSE WIDENING EXCEEDING 6' IN WIDTH SHALL BE PAID FOR AS PCC BASE COURSE WIDENING OF THE THICKNESS SPECIFIED.

PCC BASE COURSE WIDENING SHALL BE MILLED TO THE SAME DEPTH AS THE ADJACENT ROADWAY TO FACILITATE CONSTRUCTION OF HMA SHOULDERS. THIS WORK WILL BE PAID FOR AS PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH). MILLING BUTT JOINTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HMA PLANT QUALITY CONTROL LAB SO THAT HMA PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT OFFICE. THIS REQUIREMENT SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.

REMOVAL OF TEMPORARY CONCRETE BARRIER FROM THE PROJECT SITE SHALL BE CONSIDERED INCLUDED IN THE TEMPORARY CONCRETE BARRIER PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR REMOVING THE TEMPORARY CONCRETE BARRIER.

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE COST PER SQUARE YARD SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

THE ENGINEER SHALL BE THE SOLE JUDGE REGARDING THE CURING TIMES FOR ALL HOT-MIX ASPHALT.

EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.

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

THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE EXISTING CHANNEL, AS DIRECTED BY THE ENGINEER, TO MATCH BOTH ENDS OF THE PROPOSED BOX CULVERT. THE COST SHALL BE INCLUDED IN THE PAY ITEM FOR STONE RIPRAP, CLASS A4.

GENERAL NOTES (Cont'd)

SHORT-TERM PAVEMENT MARKING ON MILLED SURFACES SHALL BE PAINT. SHORT-TERM PAVEMENT MARKING ON THE HMA SURFACE COURSE SHALL BE TAPE.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS.

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING-LINE 4" CONSISTS OF 909 FEET OF WHITE AND 200 FEET OF YELLOW.

ALL RAISED REFLECTIVE PAVEMENT MARKERS ARE TWO-WAY AMBER MARKERS.

LENSES ON THE RAISED REFLECTIVE PAVEMENT MARKERS IN THE TAPER AREAS SHALL BE REMOVED. REMOVING, STORING, AND REINSTALLATION OF THE LENSES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE USE:	SURFACE COURSE (1 1/2")
APPLICATION:	HOT MIX ASPHALT SURFACE COURSE, MIX "C", N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 70
MIXTURE COMPOSITION:	IL-9.5
FRICITION AGGREGATE:	MIXTURE C

MIXTURE USE:	HMA BASE COURSE (10")
APPLICATION:	HOT MIX ASPHALT BASE COURSE
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 70
MIXTURE COMPOSITION:	IL-19.0
FRICITION AGGREGATE:	N/A

MIXTURE USE:	HMA SHOULDERS
APPLICATION:	HOT MIX ASPHALT SHOULDERS
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 30
MIXTURE COMPOSITION:	IL-19.0L
FRICITION AGGREGATE:	N/A

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

AGGREGATE MATERIALS	2.05 TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.05 LBS/SQ FT
HOT-MIX ASPHALT	112 LBS/SQ YD/INCH

HMA MIXTURES REQUIREMENTS

MIXTURE USE:	SURFACE COURSE	BASE COURSE, 10"	HOT-MIX ASPHALT SHOULDERS
APPLICATION:	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	HOT-MIX ASPHALT BASE COURSE	HOT-MIX ASPHALT SHOULDERS
PG GRADE:	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0% AT NDESIGN = 70	4.0% AT NDESIGN = 70	4.0% AT NDESIGN = 30
MIXTURE COMPOSITION:	IL-9.5	IL-19.0	IL-19.0L
FRICITION AGGREGATE:	MIXTURE C	NA	NA

100% STATE

100% STATE

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0011	
				SN 051-2008	
20200100	EARTH EXCAVATION	CU YD	640	640	
20300100	CHANNEL EXCAVATION	CU YD	510	510	
20400800	FURNISHED EXCAVATION	CU YD	280	280	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	640	640	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	185	185	
25000350	SEEDING, CLASS 7	ACRE	0.4	0.4	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80	80	
28000400	PERIMETER EROSION BARRIER	FOOT	1135	1135	
28100107	STONE RIPRAP, CLASS A4	SQ YD	257	257	
28200200	FILTER FABRIC	SQ YD	257	257	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	301	301	
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	739	739	
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	250	250	

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0011	
				SN 051-2008	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	20	20	
40600990	TEMPORARY RAMP	SQ YD	25	25	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	105	105	
44000100	PAVEMENT REMOVAL	SQ YD	449	449	
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	12	12	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	305	305	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	515	515	
50800105	REINFORCEMENT BARS	POUND	62780	62780	
50800515	BAR SPLICERS	EACH	188	188	
51500100	NAME PLATES	EACH	1	1	
54003000	CONCRETE BOX CULVERTS	CU YD	284	284	

100% STATE

100% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011 SN 051-2008		
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	612.5	612.5		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8	8		
63200310	GUARDRAIL REMOVAL	FOOT	287	287		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6	6		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011 SN 051-2008		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	160	160		
70300220	TEMPORARY PAVEMENT MARKING LINE 4"	FOOT	1109	1109		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	424	424		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	900	900		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	187.5	187.5		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1109	1109		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5	5		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	11	11		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	8		

* SPECIALTY ITEM

FILE NAME =	USER NAME = staffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
c:\pwwork\work\staffennk\10212440\ND7	4105-eh-t-wsq.dgn	DRAWN -	REVISED -		SCALE: N/A	SHEET 2	OF 3	SHEETS	STA.	TO STA.	781	109B-1	LAWRENCE	34	4
Defaults	PLOT SCALE = 1/8" = 100.0000' / 1"	CHECKED -	REVISED -						CONTRACT NO. 74105						
	PLOT DATE = 8/3/2014	DATE -	REVISED -						ILLINOIS FED. AID PROJECT						

SUMMARY OF QUANTITIES			100% STATE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				0011 SN 051-2008	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	304	304	
X0426200	DEWATERING	L SUM	1	1	
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4	0.4	
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	330	330	
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	404	404	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	980	980	
X5121800	PERMANENT STEEL SHEET PILING	SQ FT	402	402	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHoles (COLD MIX)	TON	4	4	
Z0028462	GEOTEXTILE RETAINING WALL	SQ FT	148	148	
* Z0054505	ROCK FILL - REPLACEMENT	TON	875	875	
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	362	362	

SUMMARY OF QUANTITIES			100% STATE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				0011 SN 051-2008	

* SPECIALTY ITEM

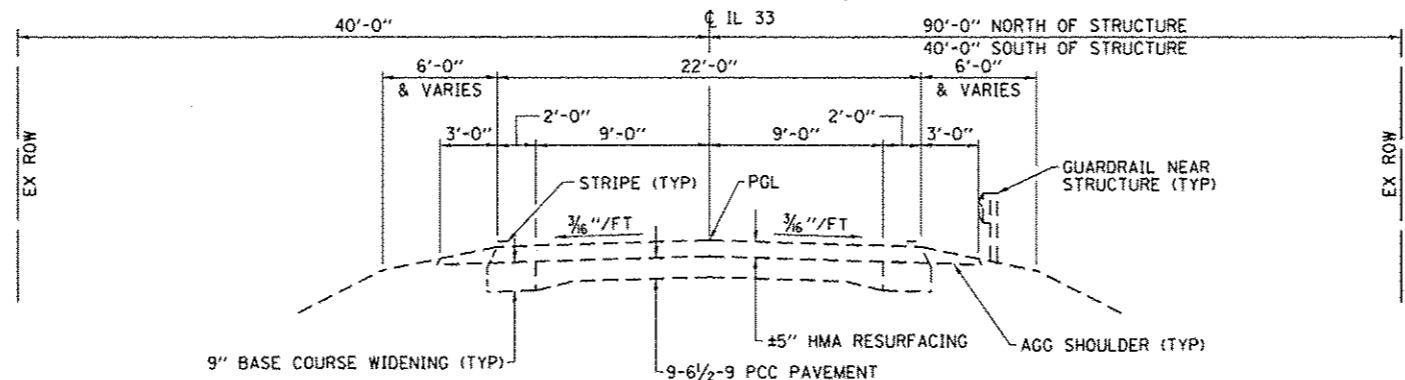
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	PLOT DATE = 6/3/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

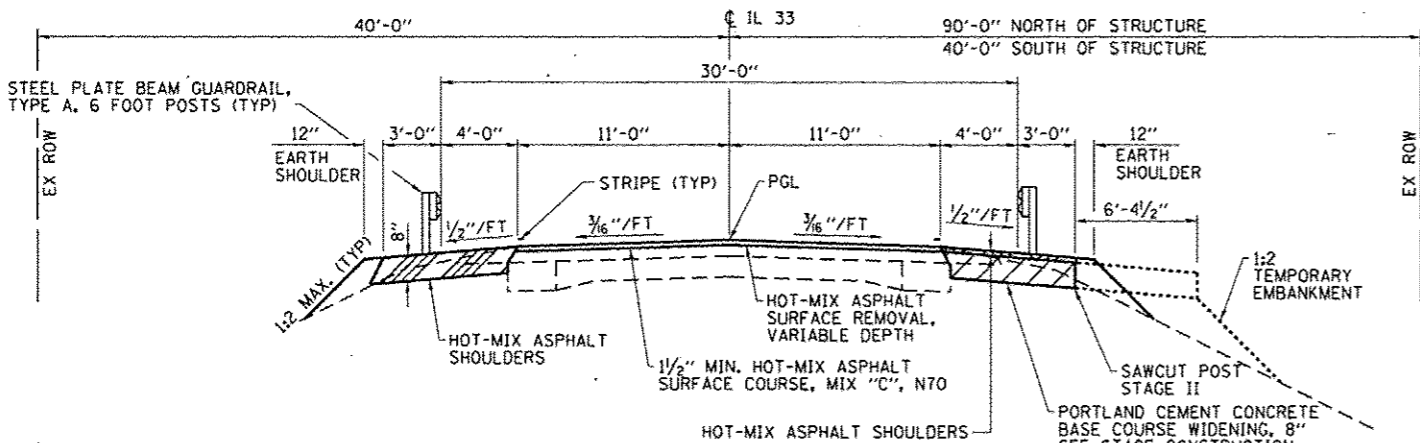
SUMMARY OF QUANTITIES

SCALE: N/A SHEET 3 OF 3 SHEETS STA. TO STA.

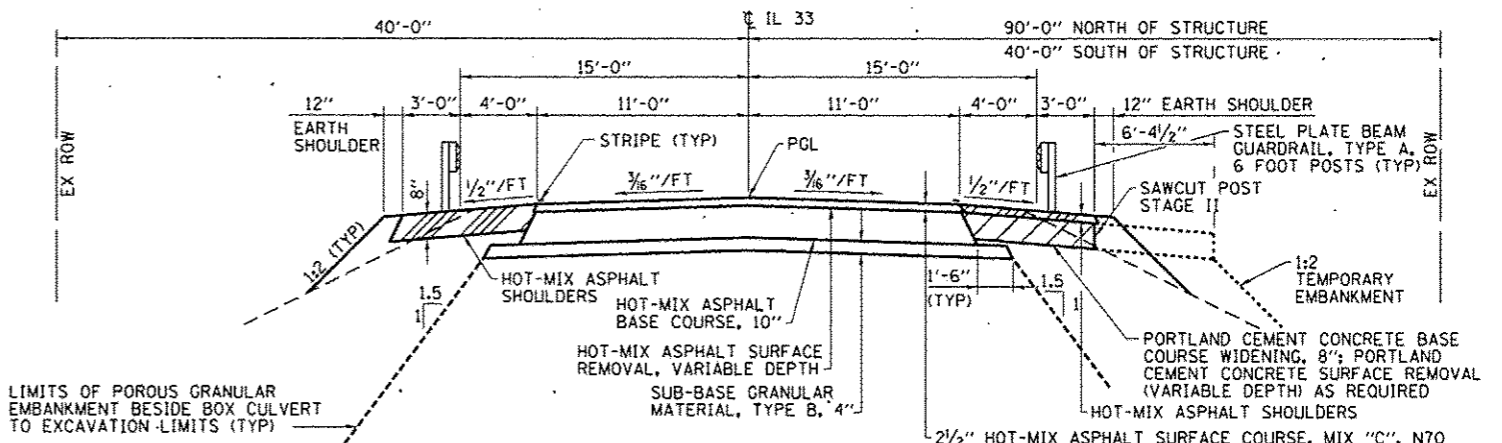
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	109B-1	LAWRENCE	34	44
			CONTRACT NO. 74105	
ILLINOIS FED. AID PROJECT				



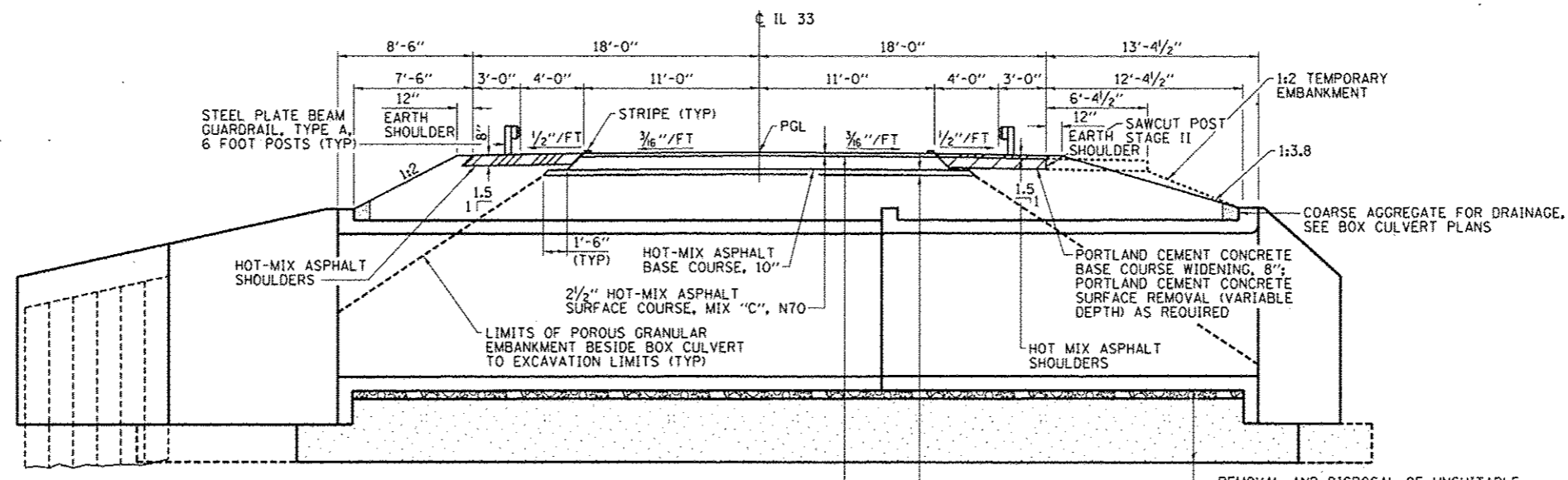
EXISTING TYPICAL ROADWAY SECTION
 STA 701+00 TO 705+13.12
 STA 705+66.88 TO 711+50



PROPOSED TYPICAL ROADWAY SECTION
 STA 701+89.5 TO 704+90
 STA 705+90 TO 709+10



PROPOSED TYPICAL ROADWAY SECTION
 STA 704+90 TO 705+17.67
 STA 705+62.33 TO 705+90



SECTION THRU BOX CULVERT
 STA 705+17.67 TO 705+62.33

FILE NAME	USER NAME = staff@arnk	DESIGNED - ELH/DAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
6/24/2014	6/24/2014	DRAWN - HAS	REVISED -			781	109B-1	LAWRENCE	34	5	
PLOT SCALE = 0.1667" = 1'		CHECKED - ELH	REVISED -			CONTRACT NO. 74105					
PLOT DATE = 6/2/2014	1:33:10 PM	DATE - 06/11	REVISED -			FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT AID					
SCALE:						SHEET NO. 1 OF 1 SHEETS					
						STA. TO STA.					



EARTHWORK SCHEDULE

LOCATION	SUITABLE EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	SUITABLE INCIDENTAL EXCAVATION MATERIAL	SUITABLE INCIDENTAL EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
NE QUADRANT CUTS & FILLS	22	17			34	-17
SE QUADRANT CUTS & FILLS	35	26			82	-56
NW QUADRANT CUTS & FILLS	28	21			46	-25
SW QUADRANT CUTS & FILLS	15	11			90	-79
BOX CULVERT TRENCH	320	240			275	-35
TEMPORARY FILL					130	-130
RIPRAP	90	62				+62
TOTALS	510	377			657	-280

NOTES:

- EXCAVATION USED AS EMBANKMENT = (SUITABLE EARTH EXCAVATION + SUITABLE INCIDENTAL EXCAVATION)*0.75
- REMOVAL OF TEMPORARY FILL MATERIAL NOT INCLUDED IN SUITABLE EARTH EXCAVATION.

SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2 (SPECIAL)	SEEDING, CLASS 7
	ACRE	ACRE
NE QUADRANT	0.1	0.1
SE QUADRANT	0.1	0.1
NW QUADRANT	0.1	0.1
SW QUADRANT	0.1	0.1
TOTALS	0.4	0.4

AGGREGATE SCHEDULE

LOCATION	AGGREGATE SURFACE COURSE, TYPE B
	TON
STA 703+92.74, RT	18
STA 704+15.96, LT	2
TOTAL	20

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE

LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT
STA 701+42.5 TO 709+37.5, C	CENTERLINE		220
	SHORT TERM	54	
	TEMPORARY	370	
STA 703+02.5 TO 704+27.5, RT	EDGE LINE		42
STA 706+52.5 TO 707+77.5, RT	EDGE LINE		42
TOTALS		424	304

PAVEMENT REMOVAL SCHEDULE

LOCATION	PAVEMENT REMOVAL
	SQ YD
STA 704+90 TO 705+13.12	57
STA 705+66.88 TO 705+90	57
BASE COURSE WIDENING, POST STAGE II	335
TOTALS	449

TOPSOIL EXCAVATION AND PLACEMENT SCHEDULE

LOCATION	TOPSOIL EXCAVATION AND PLACEMENT
	CU YD
NE QUADRANT	26
SE QUADRANT	64
NW QUADRANT	46
SW QUADRANT	49
TOTAL	185

GUARDRAIL REMOVAL SCHEDULE

LOCATION	GUARDRAIL REMOVAL
	FOOT
NE QUADRANT	69
SE QUADRANT	81
NW QUADRANT	81
SW QUADRANT	56
TOTAL	287

PAVING SCHEDULE

LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	HMA SURFACE COURSE, MIX "C", N70	HMA SHOULDERS
	POUND	TON	TON
SN 051-2008	330	105	305
TOTALS	330	105	305

EROSION CONTROL SCHEDULE

LOCATION	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING (2 APPLICATIONS)
	FOOT	POUND
NE QUADRANT	250	20
SE QUADRANT	320	20
NW QUADRANT	295	20
SW QUADRANT	270	20
TOTALS	1135	80

BASE COURSE SCHEDULE

LOCATION	HMA BASE COURSE, 10"	PCC BASE COURSE WIDENING, 8"
	SQ YD	SQ YD
STA 702+91.5 TO 707+88.5, RT		739
STA 704+90 TO 705+90	250	
TOTALS	250	739

SURFACE REMOVAL SCHEDULE

LOCATION	HMA SURFACE REMOVAL, VARIABLE DEPTH	PCC SURFACE REMOVAL (VARIABLE DEPTH)
	SQ YD	SQ YD
STA 704+00 TO 708+00	980	
BASE COURSE WIDENING		404
TOTAL	980	404

SUB-BASE GRANULAR MATERIAL SCHEDULE

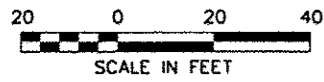
LOCATION	SUB-BASE GRANULAR MATERIAL, TYPE B 4"
	SQ YD
STA 704+90 TO 705+90	301
TOTAL	301

POROUS GRANULAR EMBANKMENT SCHEDULE

LOCATION	POROUS GRANULAR EMBANKMENT
	CU YD
BOX CULVERT TRENCH	640
TOTAL	640

GUARDRAIL SCHEDULE

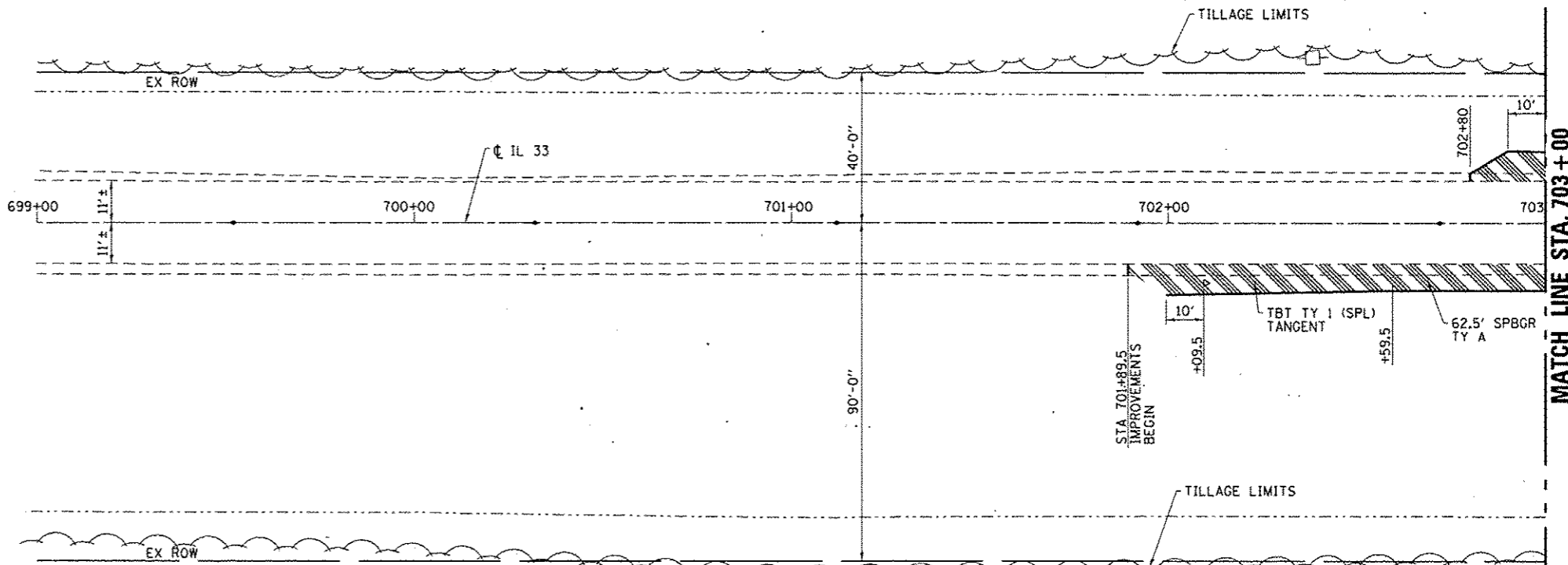
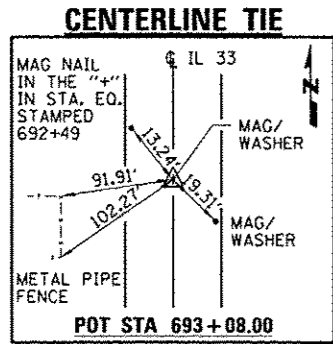
LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL MARKERS, TYPE A	STEEL PLATE BEAM GUARDRAIL, TY A	TERMINAL MARKER DIRECT APPLIED
	EACH	EACH	FOOT	EACH
NE QUADRANT	3	2		3
SE QUADRANT	1	4	350	1
NW QUADRANT	3	3	62.5	3
SW QUADRANT	1	2	200	1
TOTALS	8	11	612.5	8



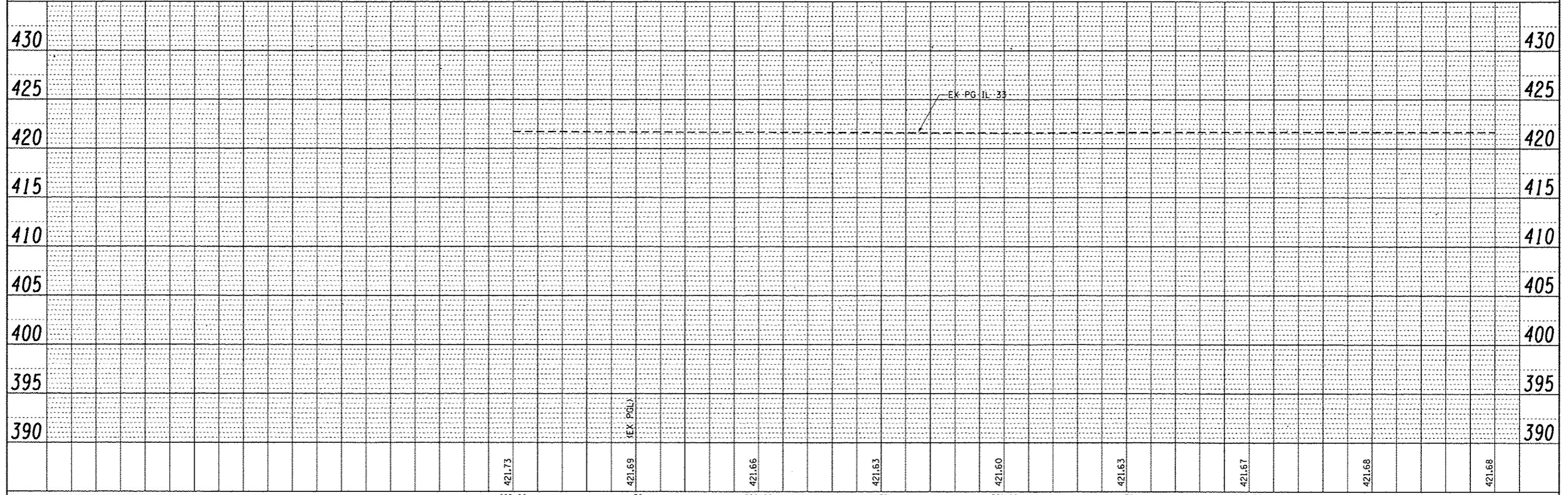
SEC. 33, T5N, R10W, 3RD P.M.

PLAN	DATE
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NOTED	
NO. _____	

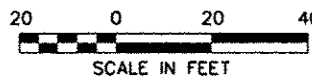
PROFILE	DATE
BY	
CHECKED	
NOTED	
NO. _____	



MATCH LINE STA. 703+00
SEE SHT. 8 FOR CONT.



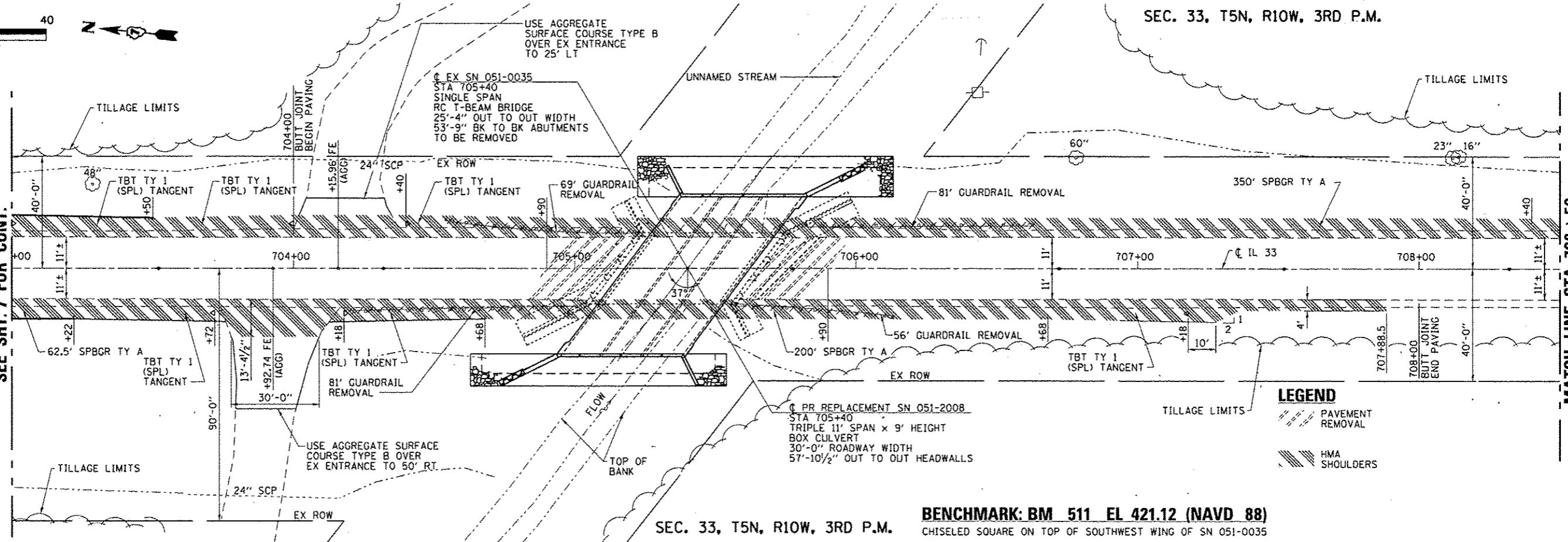
FILE NAME : 09241000k\poldpe\04\Esfermk\d027313\0774056\poldpe\933.13	USER NAME : steffernk	DESIGNED - DAJ	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">FAP RTE 781 (IL 33) PLAN AND PROFILE</p>	F.A.P. RTE. 781	SECTION 109B-1	COUNTY LAWRENCE	TOTAL SHEETS 34	SHEET NO. 7	
PLOT SCALE : 0.10007 1/16"	PLOT DATE : 6/2/2014 1:06:24 PM	DRAWN - HAS	REVISED -		SCALE: 1"=20'-0"	SHEET NO. 1 OF 3 SHEETS	STA. 699+00 TO STA. 703+00	CONTRACT NO. 74105		
DATE - 05/10	REVISOR -	CHECKED - ELH	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
REVISOR -										



SEC. 33, T5N, R10W, 3RD P.M.

MATCH LINE STA. 703+00
SEE SHT. 7 FOR CONT.

MATCH LINE STA. 708+50
SEE SHT. 9 FOR CONT.

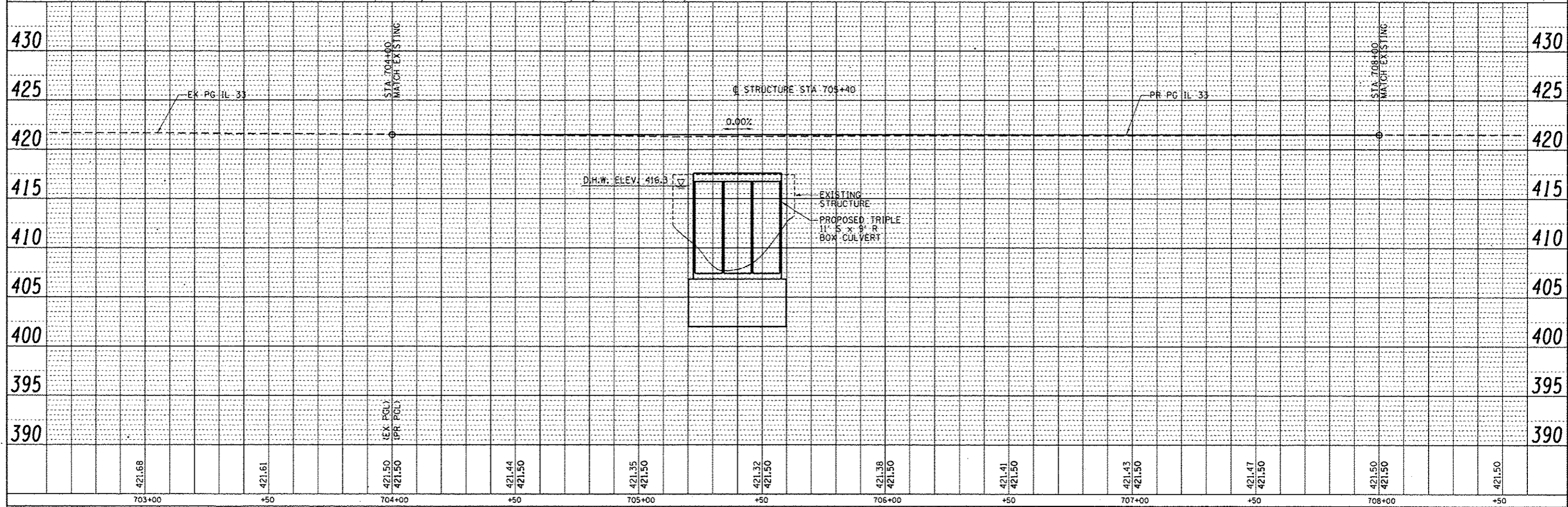


SEC. 33, T5N, R10W, 3RD P.M.

BENCHMARK: BM 511 EL 421.12 (NAVD 88)
CHISELED SQUARE ON TOP OF SOUTHWEST WING OF SN 051-0035

PLAN	DATE
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	

PROFILE	DATE
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	

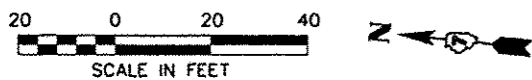


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PLOT SCALE = 8.16667" / in.	CHECKED - ELH	REVISED -	SCALE: 1"=20'-0"			SHEET NO. 2 OF 3 SHEETS	STA. 703+00 TO STA. 708+50	FED. ROAD DIST. NO.	ILLINOIS/FED. AID PROJECT	CONTRACT NO. 74105	
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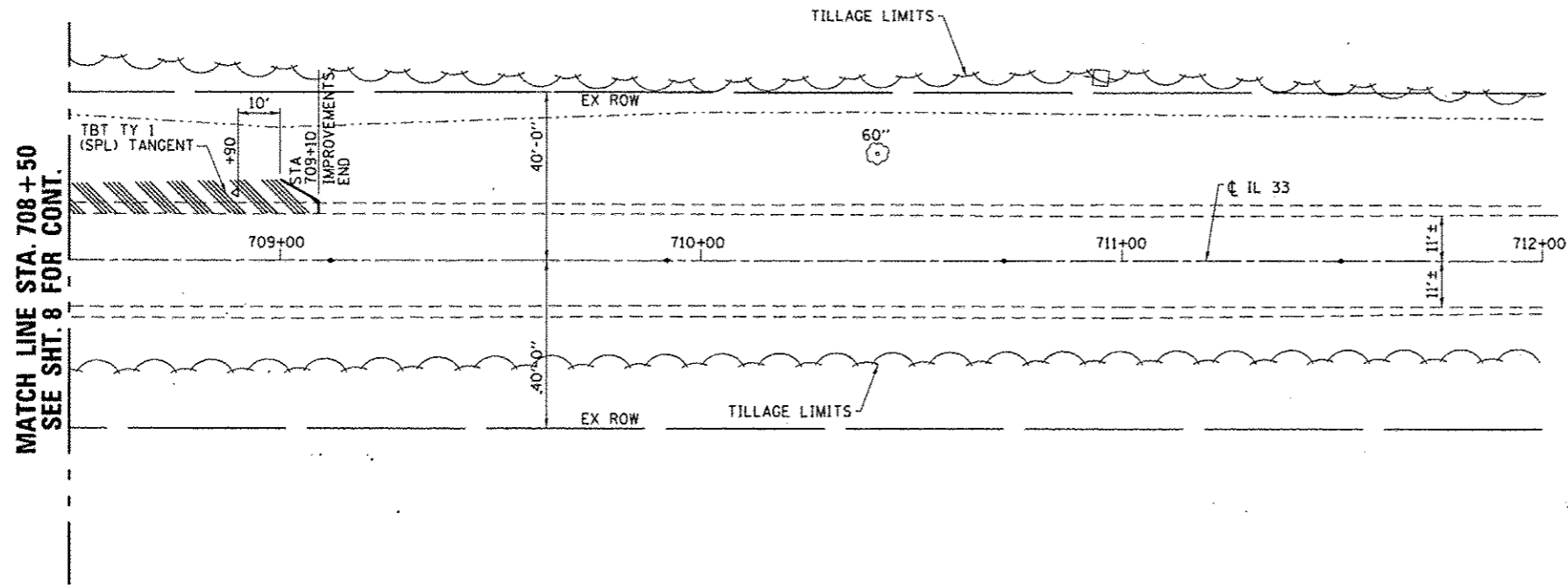


PLAN	DATE
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NO. 1	
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NO. 50	

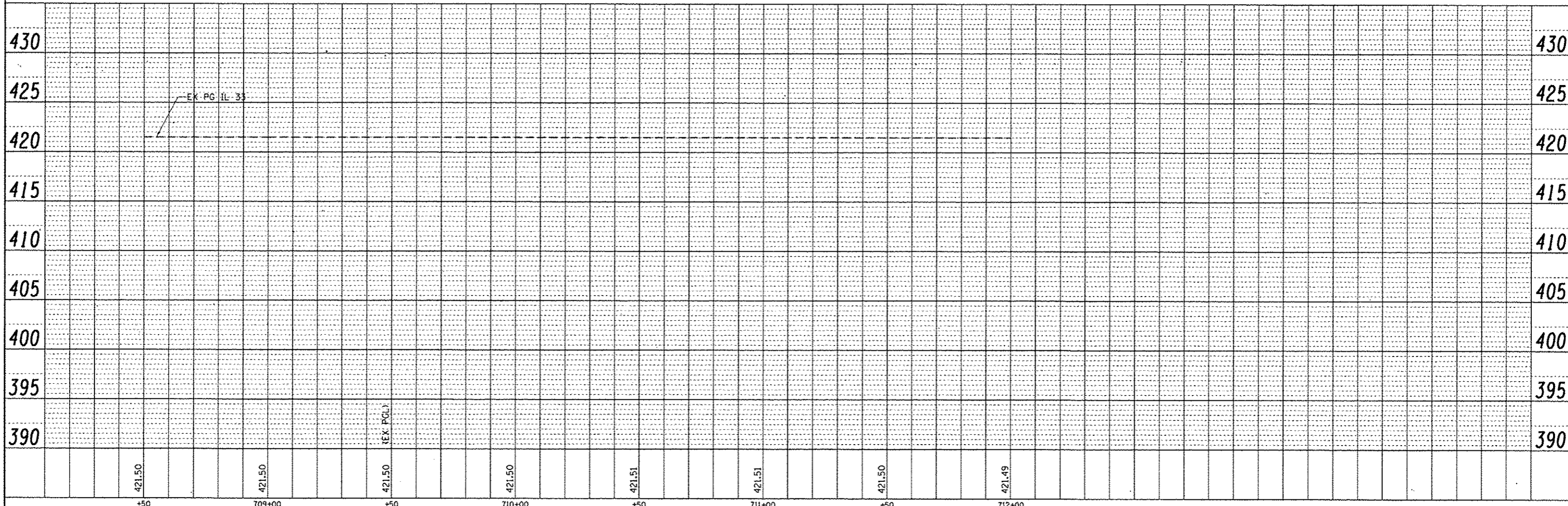
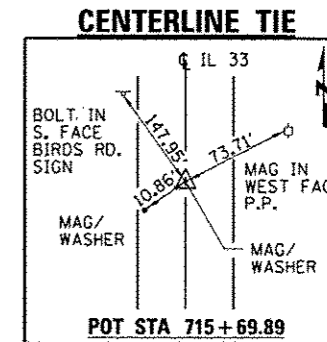
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NO. 1	
NO. 2	
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NO. 47	
NO. 48	
NO. 49	
NO. 50	



SEC. 33, T5N, R10W, 3RD P.M.



SEC. 33, T5N, R10W, 3RD P.M.



FILE NAME = D:\774105-shr-plnprf03.dgn
 SCALES: (HORIZ) 1"=10' (VERT) 1"=5'

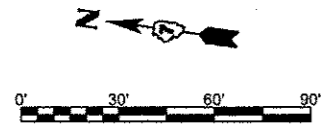
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PLOT SCALE = 0.16667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 6/2/2014 1:09:57 PM	DATE - 05/10	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP RTE 781 (IL 33) PLAN AND PROFILE

SCALE: 1"=20'-0" SHEET NO. 3 OF 3 SHEETS STA. 708+50 TO STA. 712+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1098-1	LAWRENCE	34	9
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 74105	



LEGEND

- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- PCC BASE COURSE WIDENING, 8"
- PAVEMENT REMOVAL

SCHEDULE OF QUANTITIES

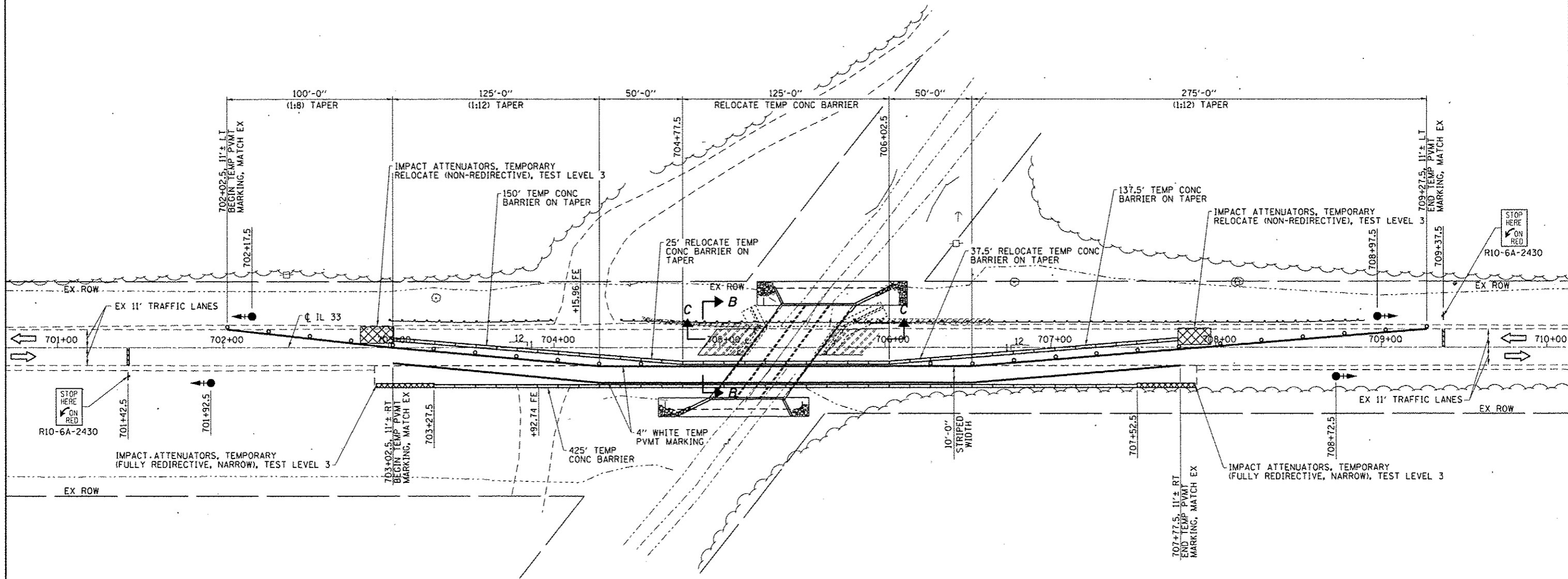
TEMPORARY CONCRETE BARRIER			
STATION TO	STATION	FEET	
703+02.5	704+52.5	150	
706+40	707+77.5	137.5	
703+27.5	707+52.5	425	
	TOTAL	712.5	

RELOCATE TEMPORARY CONCRETE BARRIER			
STATION TO	STATION	FEET	
704+52.5	706+40	187.5	
	TOTAL	187.5	

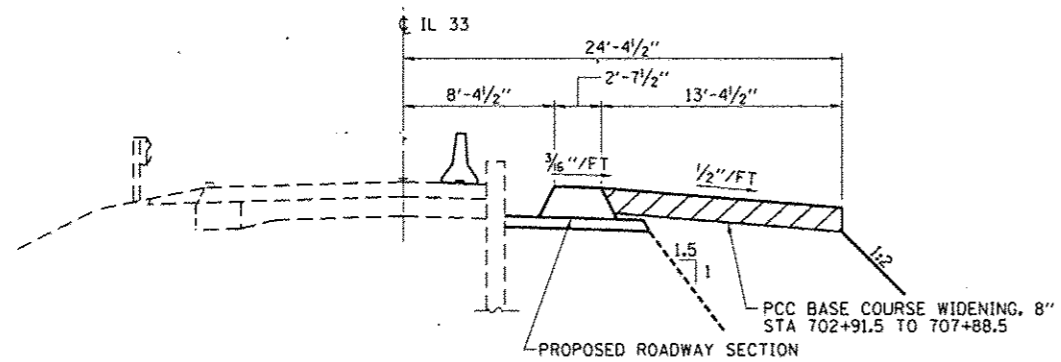
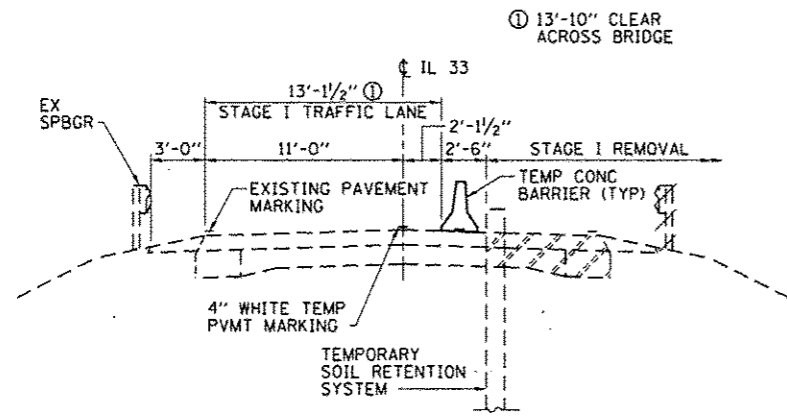
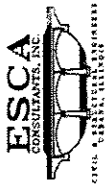
- IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 - 2 EACH

GENERAL NOTES

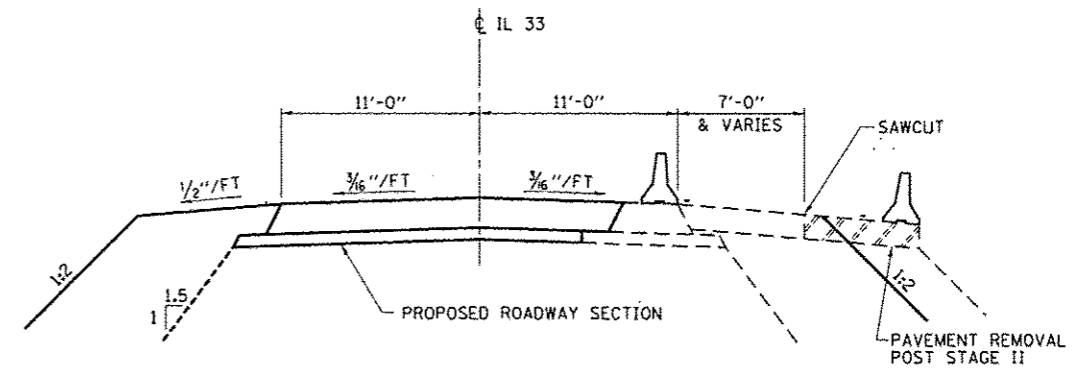
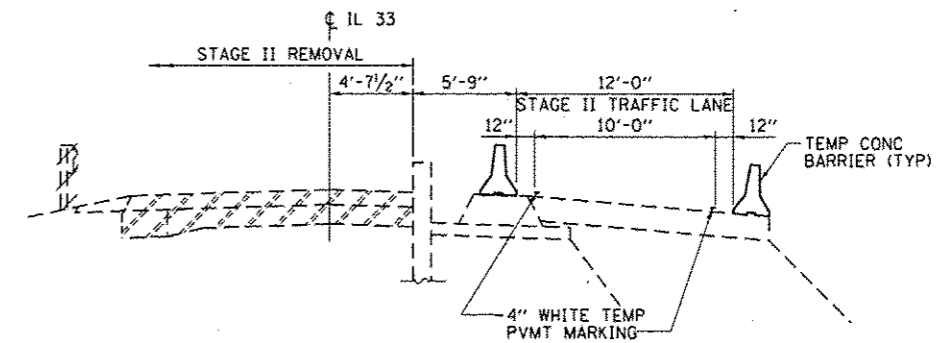
1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. ADDITIONAL SIGNAGE FOR SIDE-ROADS AND ENTRANCES SHALL BE INCLUDED IN THE COST OF STANDARD 701321. THE TWO FIELD ENTRANCES SHALL BE CLOSED DURING STAGE II CONSTRUCTION PER STANDARD 701901.
6. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W2-1102(O)-48) SHOWN ON STANDARD 701321 SHALL BE 10'-6" FOR STAGE II CONSTRUCTION.



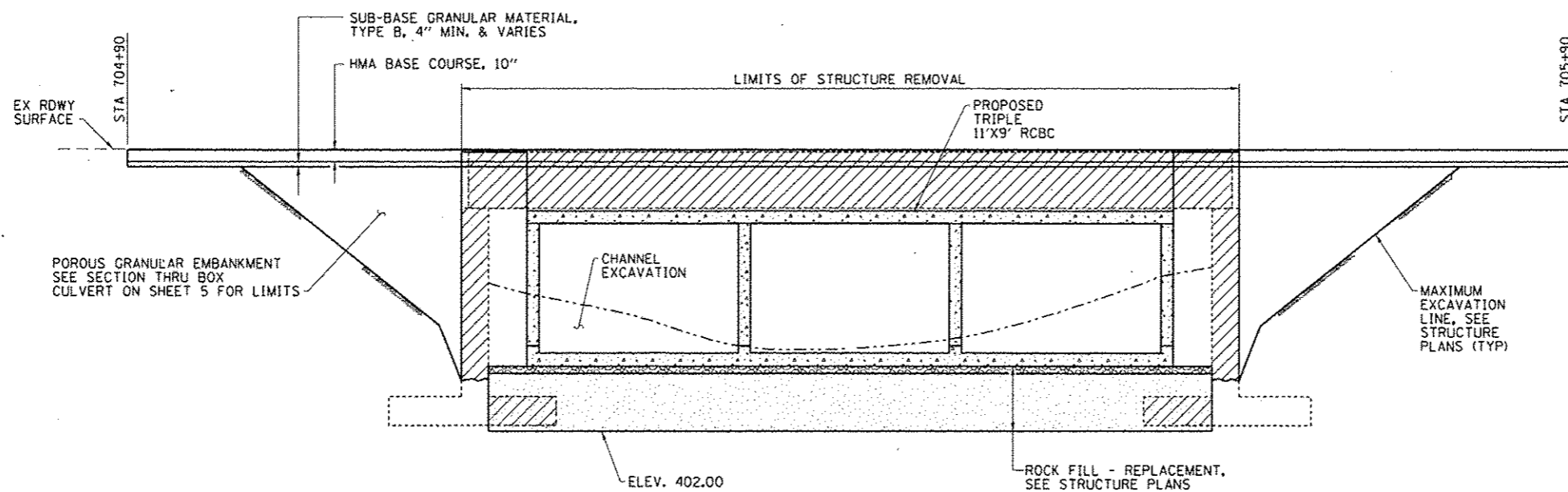
FILE NAME =	USER NAME = staffnank	DESIGNED - OAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
8/2/2014 10:15:00 AM	ESCA JOB NO. 033.13	DRAWN - HAS	REVISED -			781	1098-1	LAWRENCE	34	11	
PLOT SCALE = 0.1667" / 1"		CHECKED - ELH	REVISED -			CONTRACT NO. 74105					
PLOT DATE = 6/2/2014 4:32:03 PM		DATE - 06/11	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: 1"=30'-0"						SHEET NO. 2 OF 2 SHEETS		STA. 700+68.65 TO STA. 710+13.64			



**SECTION A-A
(STAGE I)**



**SECTION B-B
(STAGE II)**



SECTION C-C

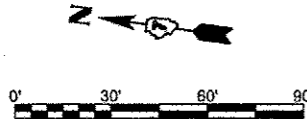
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS

FILE NAME:	USER NAME = staffcrnk	DESIGNED - DAJ	REVISED -
68CA-108-100-933.13		DRAWN - HAS	REVISED -
PLOT SCALE = 8/1667" = 1"		CHECKED - ELH	REVISED -
PLOT DATE = 6/2/2014	11:09:11 AM	DATE - 06/11	REVISED -

SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.
--------	-------------------------	------	---------

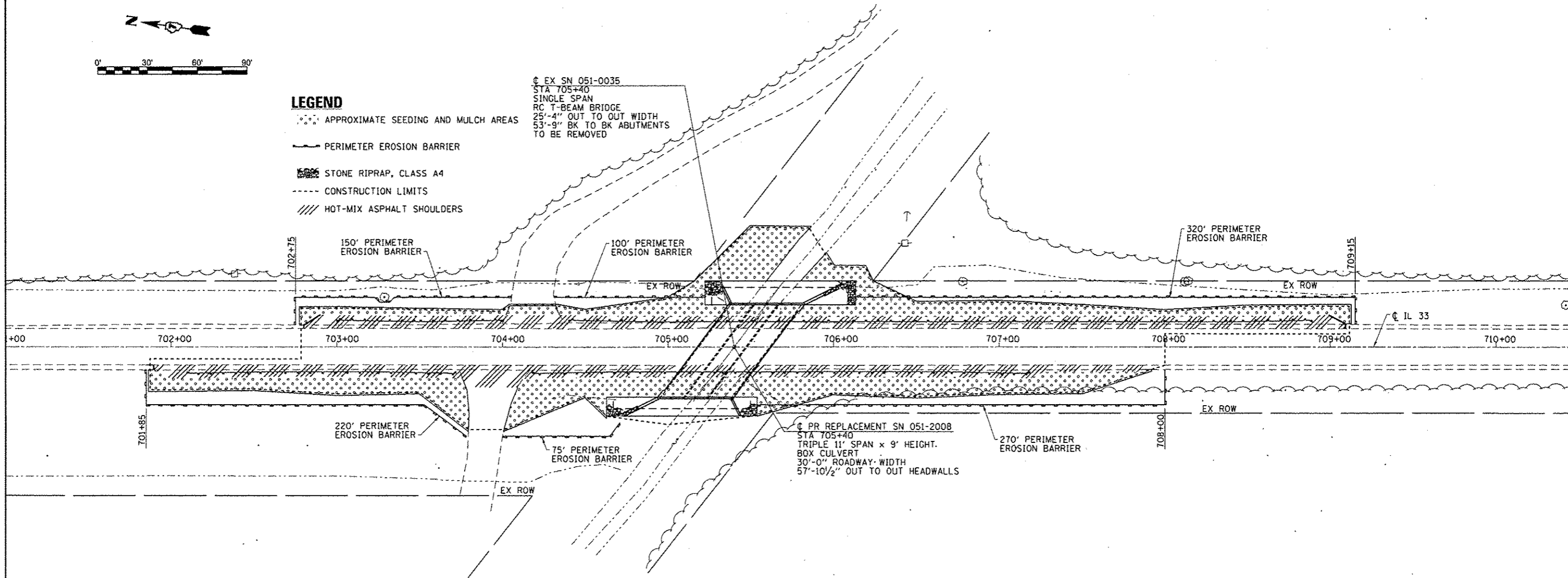
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	109B-1	LAWRENCE	34	12
FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT AID			CONTRACT NO. 74105	



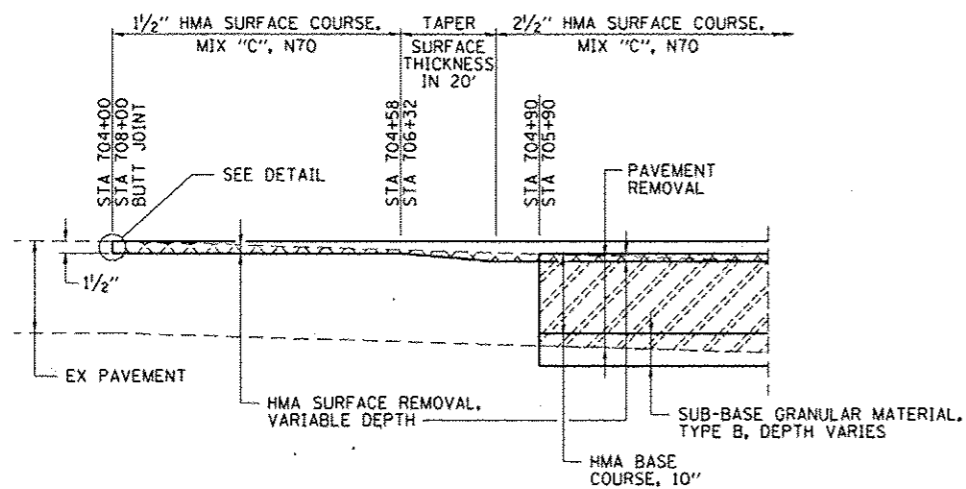
LEGEND

- APPROXIMATE SEEDING AND MULCH AREAS
- PERIMETER EROSION BARRIER
- ▨ STONE RIPRAP, CLASS A4
- - - - CONSTRUCTION LIMITS
- /// HOT-MIX ASPHALT SHOULDERS

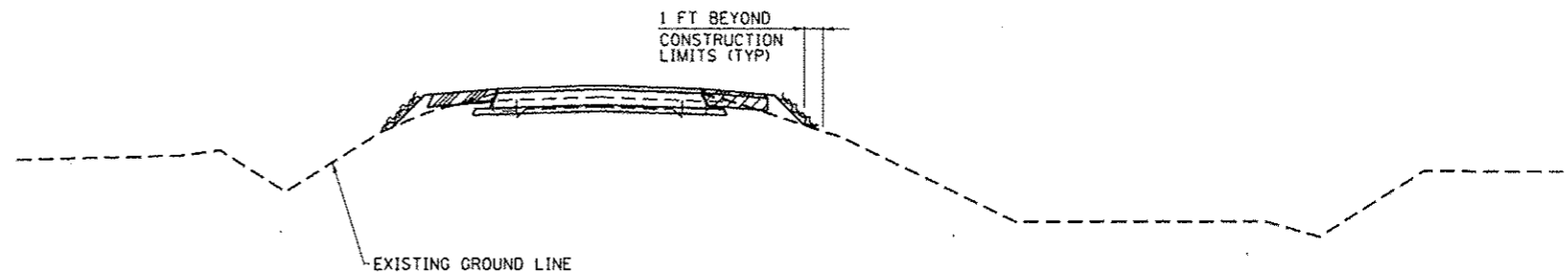
EX SN 051-0035
STA 705+40
SINGLE SPAN
RC T-BEAM BRIDGE
25'-4" OUT TO OUT WIDTH
53'-9" BK TO BK ABUTMENTS
TO BE REMOVED



FILE NAME : B:\2014\Work\Perdo\Staff\erick\0273139\07	USER NAME : steffernk	DESIGNED - DAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND DRAINAGE PLAN	F.A.P. RTE.:	SECTION :	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0.1667' / 1" = 1/6" = 1/6" = 1/6"	CHECKED - ELH	REVISED -			781	109B-1	LAWRENCE	34	13
PLOT DATE : 6/27/2014 12:08:43 PM	DATE - 06/11	REVISED -	REVISED -	SCALE: 1"=30'-0" SHEET NO. 1 OF 1 SHEETS STA. 701+00 TO STA. 710+50		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT CONTRACT NO. 74105				



SURFACING AND MILLING SECTION



SEEDING & MULCHING

GENERAL NOTES

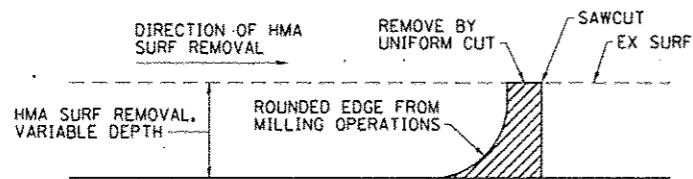
IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

--- INDICATES LIMITS OF SEEDING AND MULCHING



DETAIL AT BUTT JOINT

NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAWCUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE COST OF ALL WORK SHOWN IN THE DETAIL IS INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

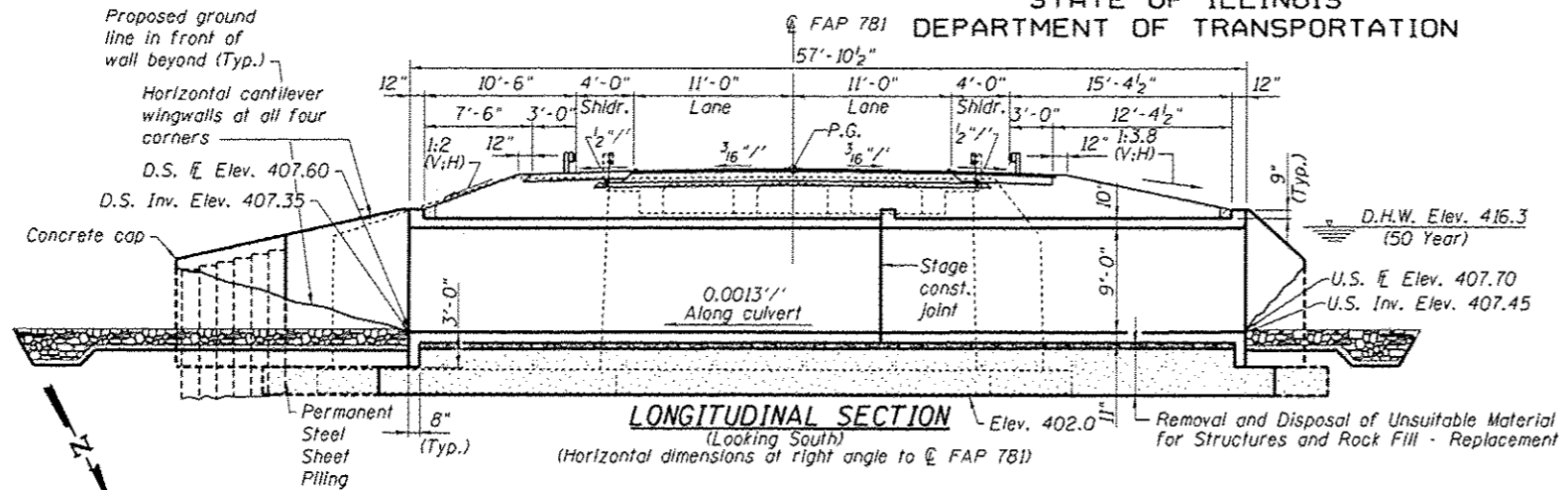
FILE NAME =	USER NAME = staffennk	DESIGNED - DAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
8734\Blink\pedot\kth\6fennk\0273139\07	666A-108.140.833.13	DRAWN - HAS	REVISED -			781	109B-1	LAWRENCE	34	14	
PLOT SCALE = 0.1667" / 10'		CHECKED - ELH	REVISED -			CONTRACT NO. 74105					
PLOT DATE = 6/2/2014 11:58:02 AM		DATE - 06/11	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT AID					
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.											

BENCHMARK: BM 511-Chiseled square on top of southwest wing of SN 051-0035, Elev. 421.12 (NAVD 88)

EXISTING STRUCTURE: SN 051-0035 was originally built in 1933 as SBI 181, Section 109B. The original brick railing was removed and replaced with a steel rail. The date of this work is unknown. It is a single span reinforced concrete tee beam structure on concrete abutments and wingwalls supported on timber piles. The deck width is 25'-4" and the length is 50'-0" face to face of abutments. The structure was constructed at a 37° skew. Traffic shall be maintained utilizing stage construction.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STRUCTURE INDEX OF SHEETS

General Plan	Sheet No. 1 of 10
General Data	Sheet No. 2 of 10
Stage Construction Details	Sheet No. 3 & 4 of 10
Box Culvert Details	Sheet No. 5 & 6 of 10
Steel Sheet Piling Wall Details	Sheet No. 7 of 10
Bar Splicer Assembly Details	Sheet No. 8 of 10
Temporary Concrete Barrier For Stage Construction	Sheet No. 9 of 10
Boring Logs	Sheet No. 10 of 10

APPROVED
For Structural Adequacy Only
D. Carl Perry
Engineer of Bridges & Structures

SCOUR INFORMATION

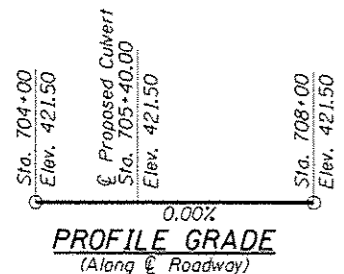
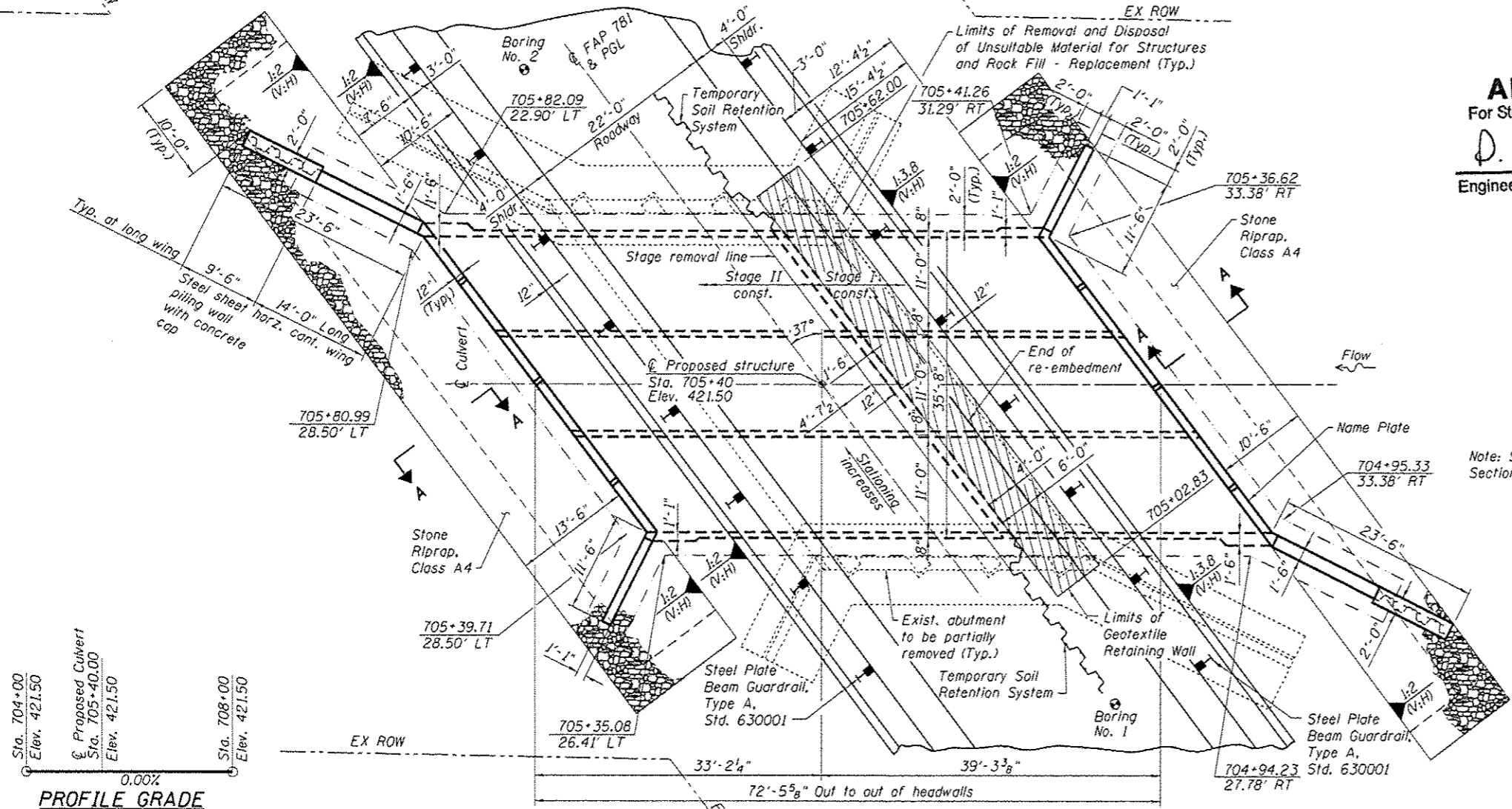
Design Scour Elevation (Ft.)	Downstream	Upstream
	404.35	404.45

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

DESIGN SPECIFICATIONS
2002 AASHTO

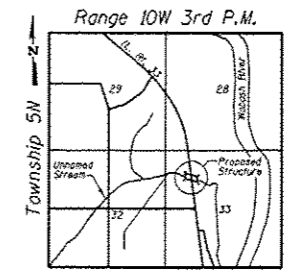
LOADING HS20-44
Allow 50 psf for future wearing surface.



WATERWAY INFORMATION

Drainage Area = 2.33 Sq. Mi. Exist. Low Grade Elev. = 421.3 Ft. @ Sta. 705+05
Prop. Low Grade Elev. = 421.50 Ft. @ Sta. 705+05

Flood	Freq. Yr.	Q		Nat. H.W.E.	Head-Ft.		Headwater El.		
		C.F.S.	Opening-Sq. Ft.		Exist.	Prop.	Exist.	Prop.	
Design	10	462	186	232	414.4	0.0	0.0	414.4	414.4
Base	50	739	257	291	416.3	0.0	0.0	416.3	416.3
Max. Calc.	100	863	285	297	417.0	0.0	0.0	417.0	417.0
	500	1160	304	297	418.5	0.2	0.2	418.7	418.7



EXPIRES 11-30-10
E. J. ...
SIGNATURE
06-30-10
DATE

GENERAL PLAN
IL 33 OVER UNNAMED STREAM
FAP ROUTE 781 - SECTION 109B-1
LAWRENCE COUNTY
STATION 705+40
STRUCTURE NO. 051-2008

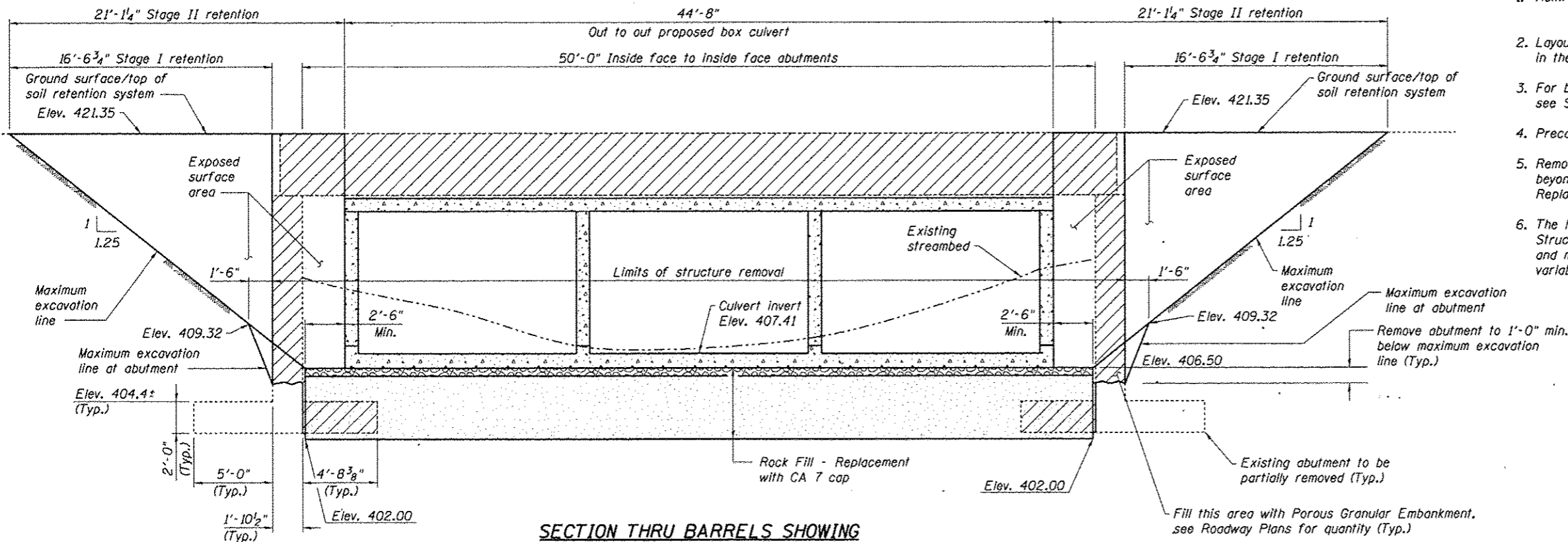
ESCA
CONSULTANTS, INC.
DESIGNED BY: ELH 03/10
DRAWN BY: DWH/HAS 03/10
CHECKED BY: ELH 06/10
APPROVED BY: RDP 06/10

SHEET NO. 1 10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	781	109B-1	LAWRENCE	34	15
CONTRACT NO. 74105					
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. For backfilling and embankment outside of the limits of Rock Fill - Replacement see Standard Specifications.
4. Precast alternate is not allowed.
5. Remove unsuitable soil beneath the footprint of the box culvert and two feet beyond the perimeter of the culvert and wingwalls as shown on Sheet No. 1. Replace with rock fill.
6. The limits and quantities of Removal and Disposal of Unsuitable Material for Structures and Rock Fill - Replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.



**SECTION THRU BARRELS SHOWING
TEMPORARY SOIL RETENTION SYSTEM LIMITS**

(Dimensions parallel to \odot FAP 781)

NOTES

1. Existing structure details are based on the best available information from existing bridge plans.
2. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
3. Limits of Rock Fill - Replacement are shown for culvert outside of the existing bridge. For culvert inside of the existing bridge, widen limits to the inside faces of the existing abutments.

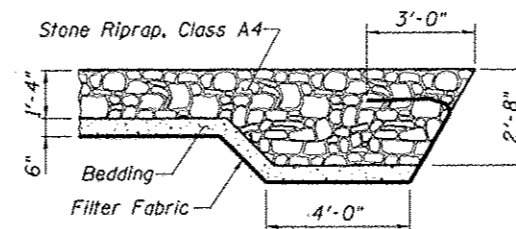
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	515
Stone Riprap, Class A4	Sq. Yd.	257
Filter Fabric	Sq. Yd.	257
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	62,780
Bar Splicers	Each	188
Temporary Soil Retention System	Sq. Ft.	362
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	284.0
Geotextile Retaining Wall	Sq. Ft.	148
Permanent Steel Sheet Piling	Sq. Ft.	402
Rock Fill - Replacement	Ton	875

See Roadway Plans for quantities of Temporary Concrete Barrier, Earth Excavation, and Porous Granular Embankment.

STATION 705+40
BUILT BY
STATE OF ILLINOIS
F.A. RT. 781 SEC. 109B-1
LOADING HS20-44
STR. NO. 051-2008

NAME PLATE
See Std. 515001



SECTION A-A

**GENERAL DATA
STRUCTURE NO. 051-2008**

SHEET NO. 2 10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	781	109B-1	LAWRENCE	34	16
			CONTRACT NO. 74105		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

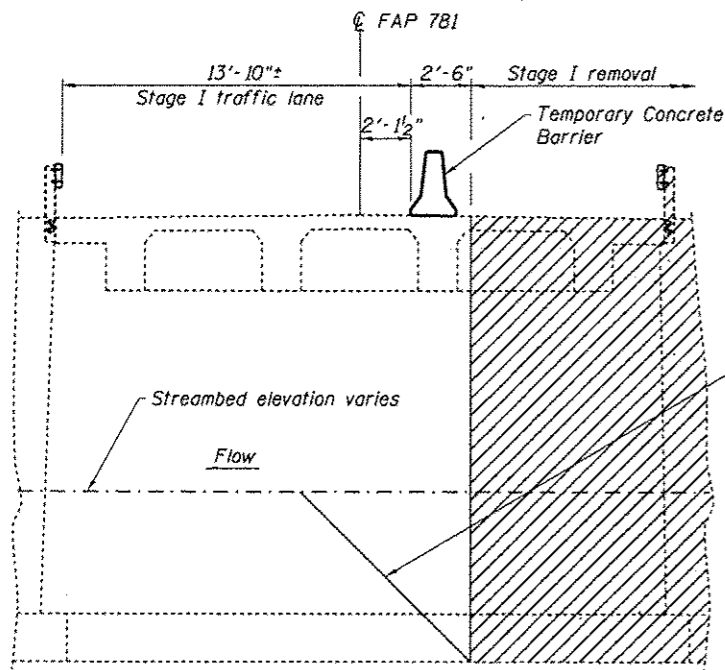
ESCA
CONSULTANTS, INC.

DESIGNED BY:	ELH	03/10
DRAWN BY:	DWH/HAS	03/10
CHECKED BY:	ELH	06/10
APPROVED BY:	RDP	06/10

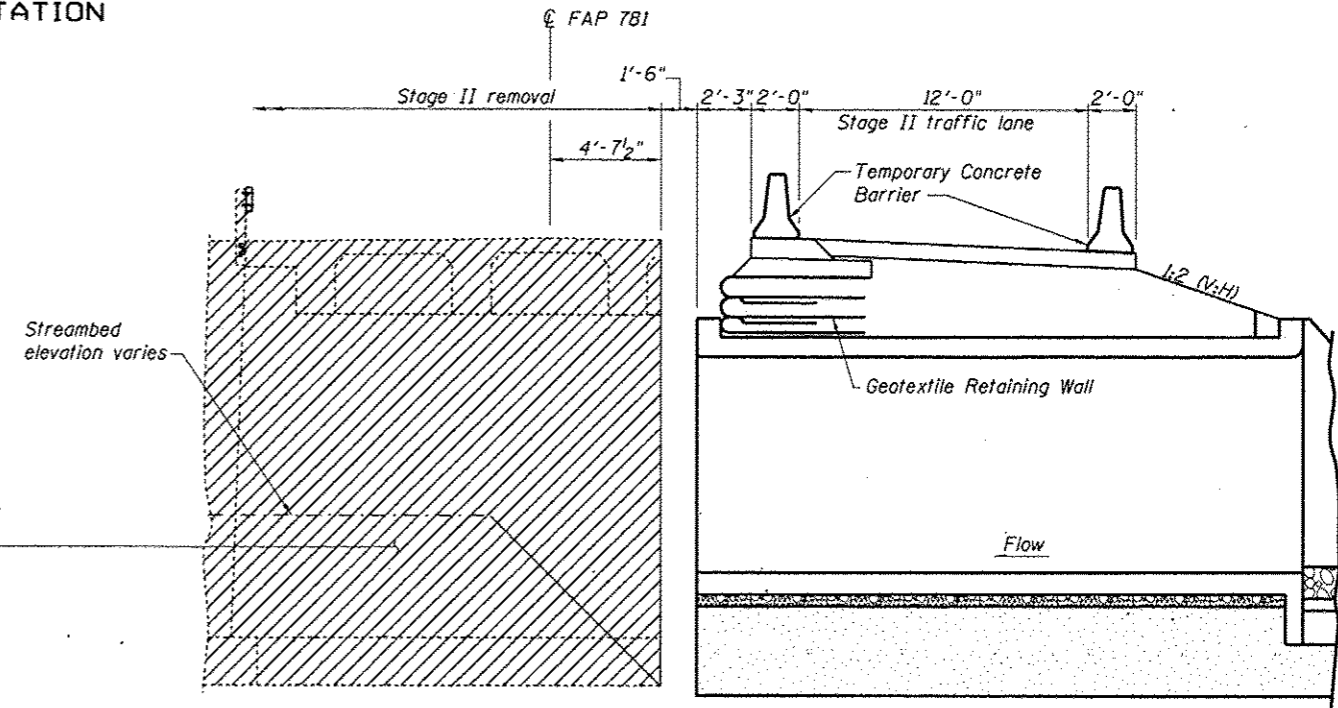
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION NOTES

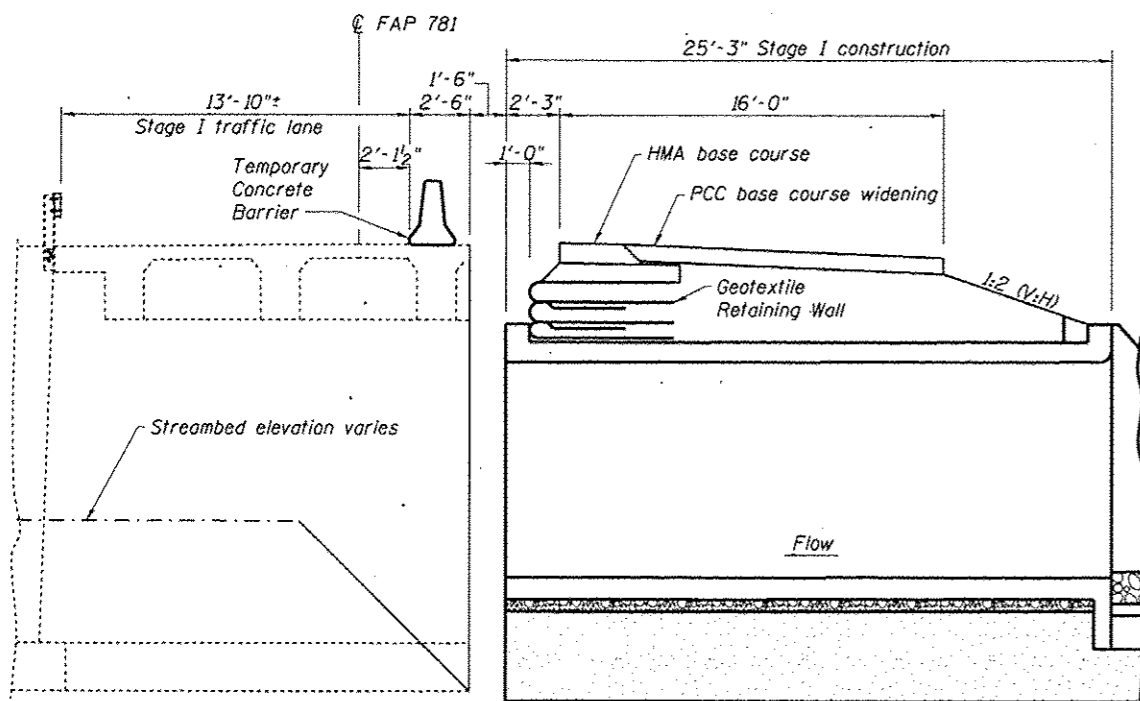
1. Hatched areas indicate Removal of Existing Structures.
2. For details of Temporary Concrete Barrier, see Sht. No. 9 of 10.
3. Removal of existing bridge rail is included with Removal of Existing Structures.
4. All sections are looking South.
5. Horizontal dimensions are at right angles at \odot FAP 781.



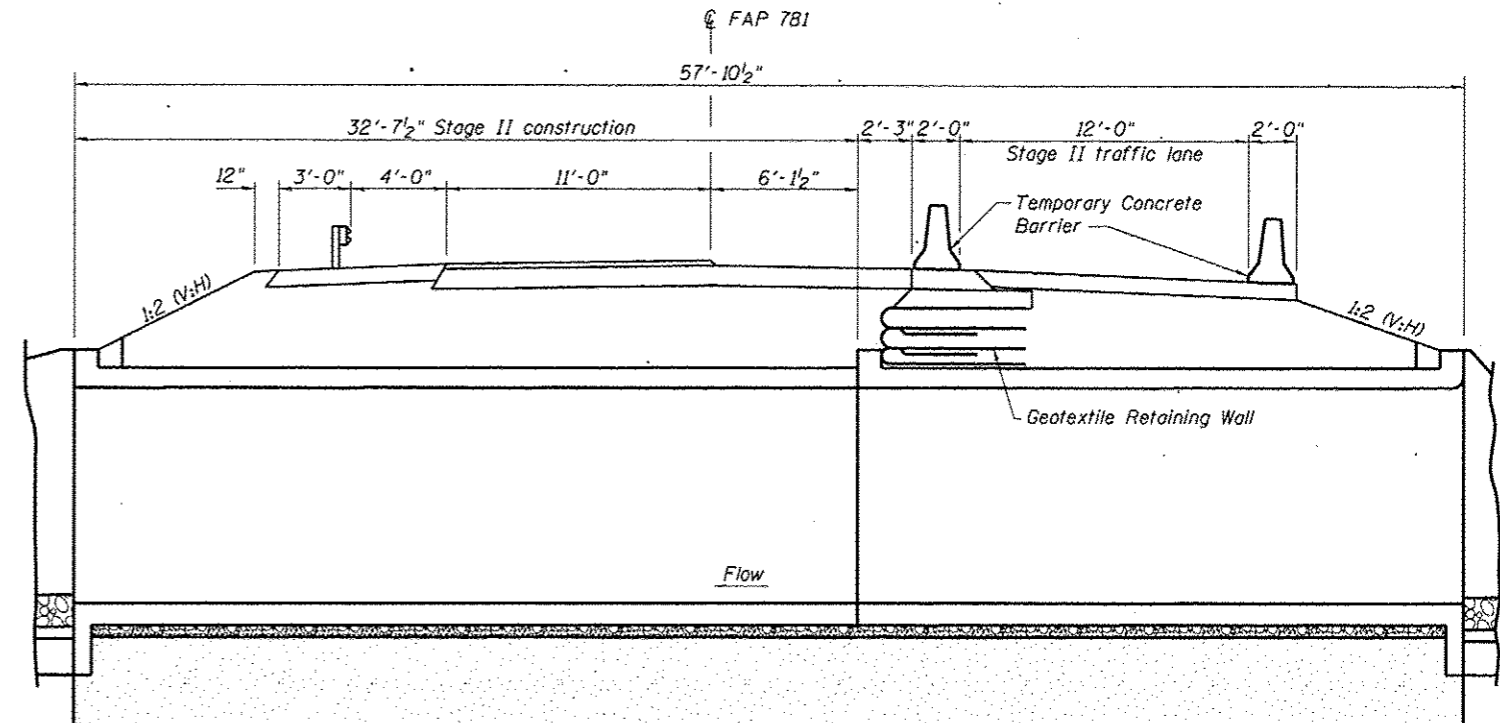
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

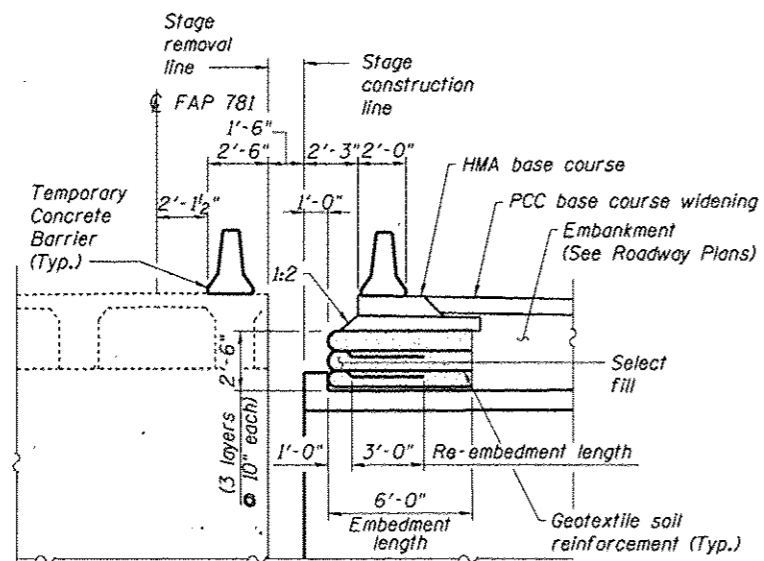
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 051-2008**

ESCA
CONSULTANTS, INC.

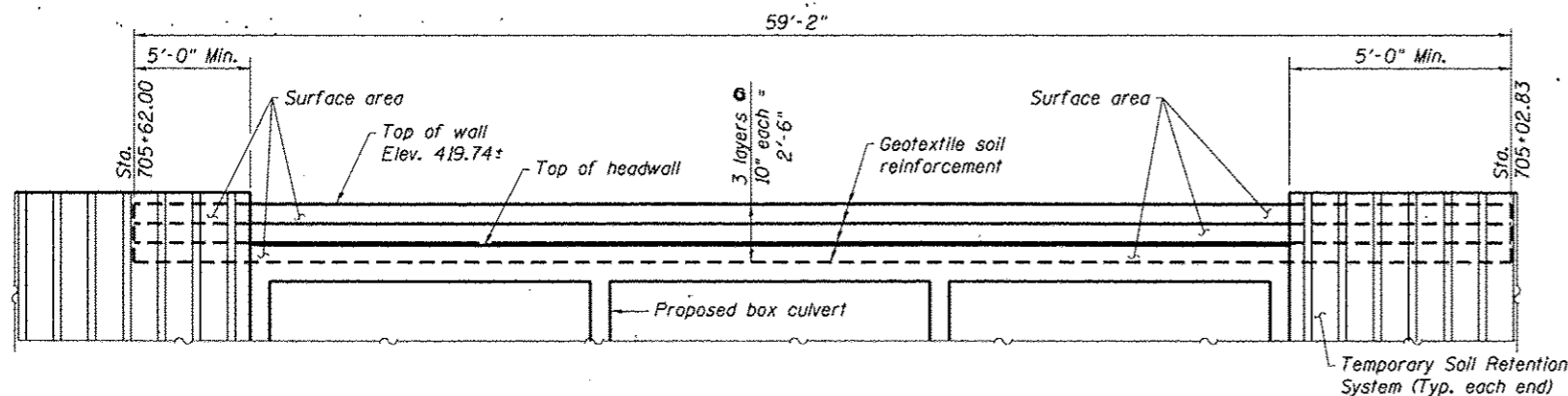
DESIGNED BY:	ELH	03/10
DRAWN BY:	DWH/HAS	03/10
CHECKED BY:	ELH	06/11
APPROVED BY:	RDP	06/11

SHEET NO. 3 10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	781	109B-1	LAWRENCE	34	17
			CONTRACT NO. 74105		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

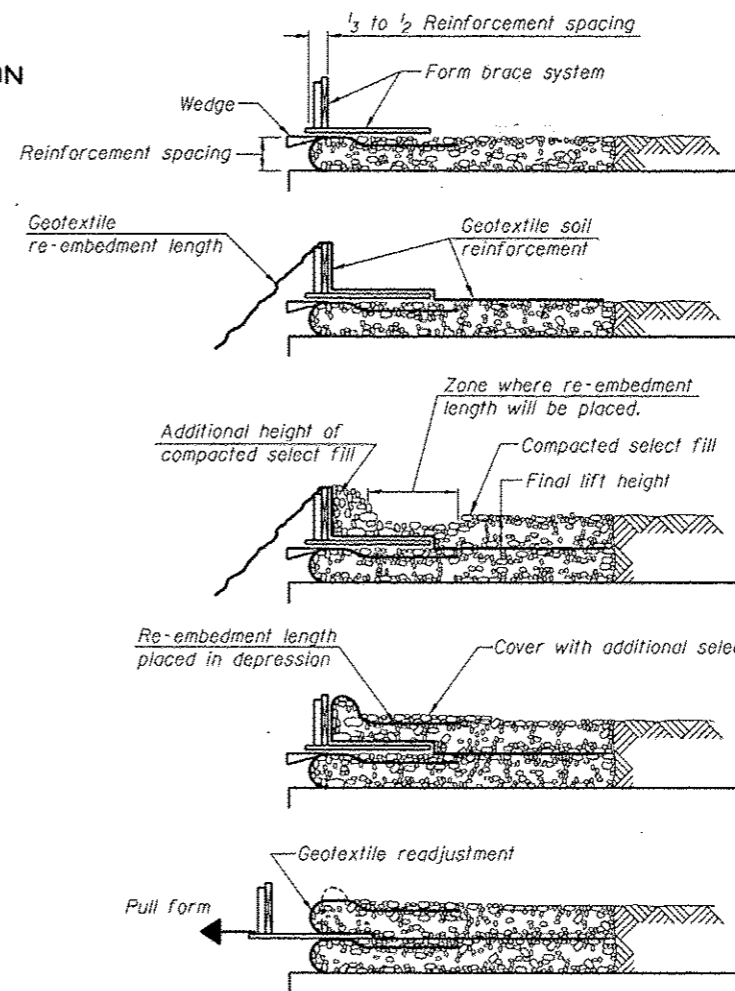
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**TEMPORARY GEOTEXTILE WALL
TYPICAL SECTION**
(Horizontal dimensions at right angle to ϕ FAP 781)



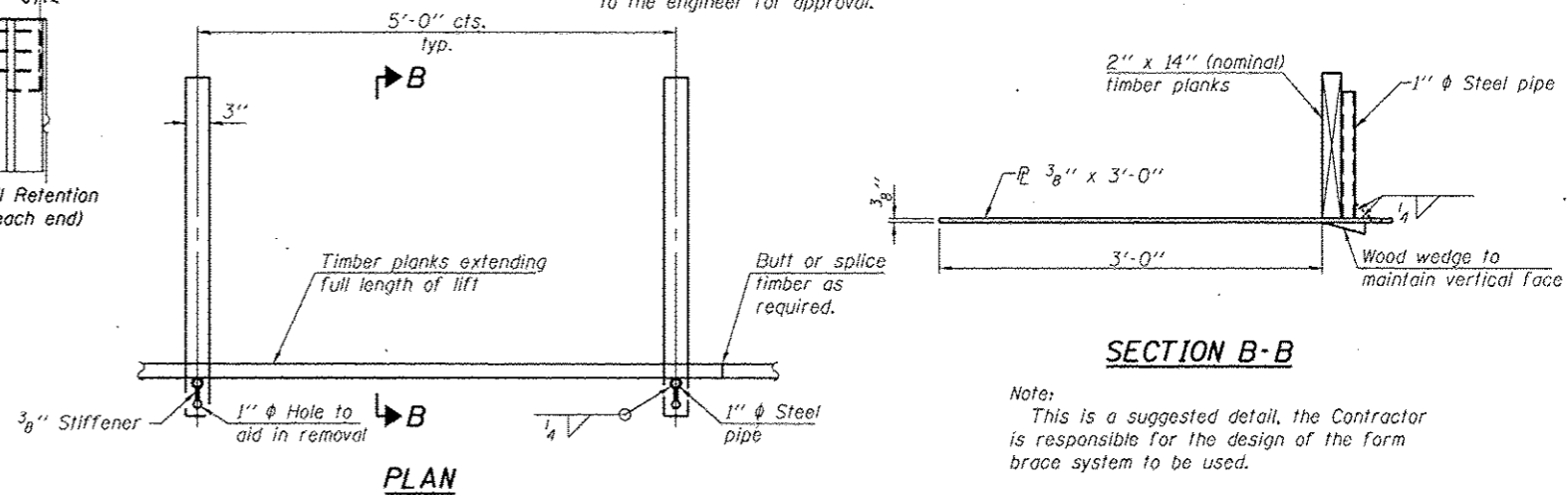
TEMPORARY GEOTEXTILE WALL ELEVATION
(Looking West)
(Horizontal dimensions parallel to ϕ FAP 781)



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

**TEMPORARY GEOTEXTILE
WALL CONSTRUCTION SEQUENCE**

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 25 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.



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

**TEMPORARY GEOTEXTILE
FORM BRACE DETAIL**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 051-2008**

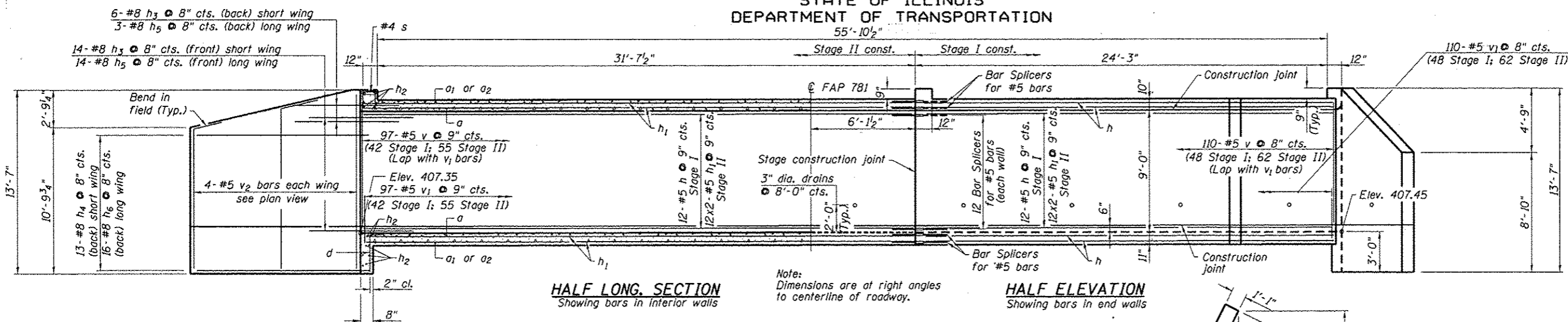
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CONSULTANTS, INC.

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CHECKED BY:	ELH	06/11
APPROVED BY:	RDP	06/11

SHEET NO. 4 10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	781	109B-1	LAWRENCE	34	18
CONTRACT NO. 74105					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

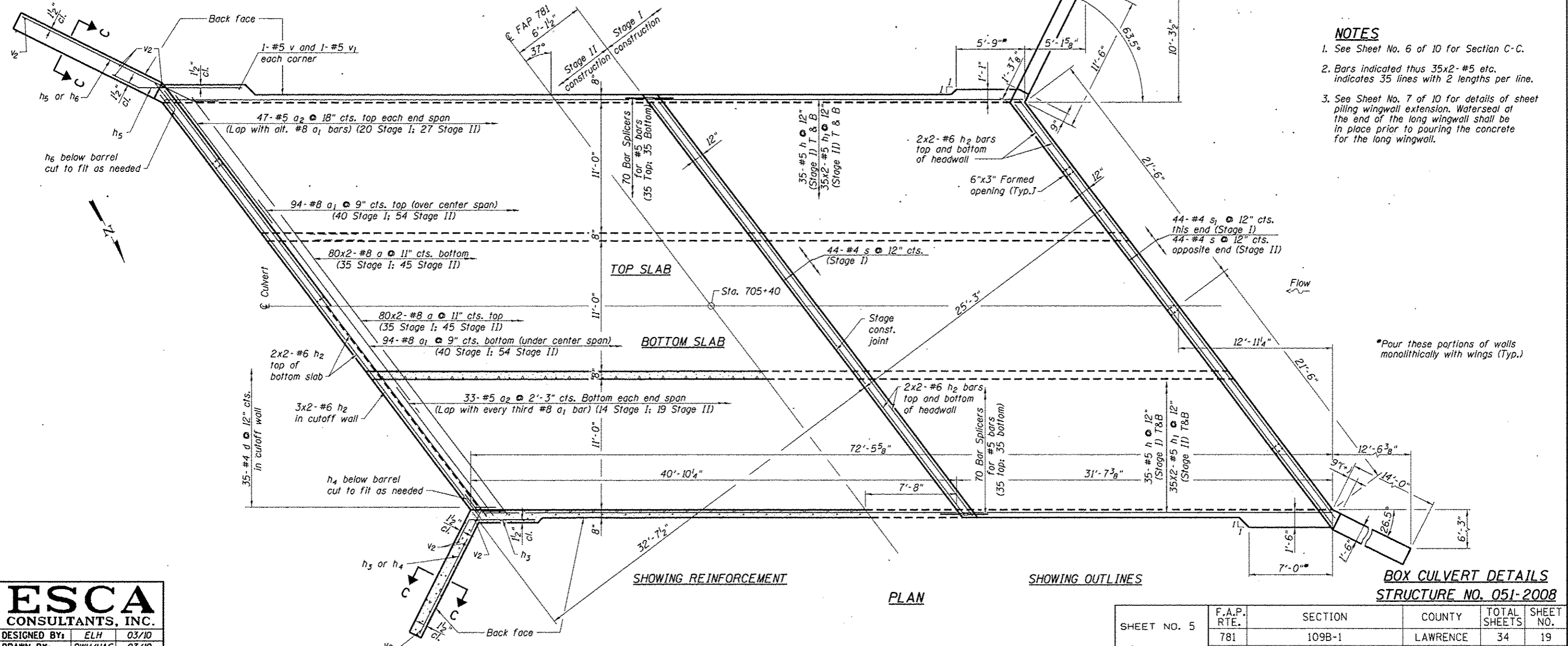
55'-10 1/2"



HALF LONG SECTION
Showing bars in interior walls

HALF ELEVATION
Showing bars in end walls

Note:
Dimensions are at right angles
to centerline of roadway.



SHOWING REINFORCEMENT

PLAN

SHOWING OUTLINES

NOTES

1. See Sheet No. 6 of 10 for Section C-C.
2. Bars indicated thus 35x2-#5 etc. indicates 35 lines with 2 lengths per line.
3. See Sheet No. 7 of 10 for details of sheet piling wingwall extension. Waterseal at the end of the long wingwall shall be in place prior to pouring the concrete for the long wingwall.

*Pour these portions of walls monolithically with wings (Typ.)

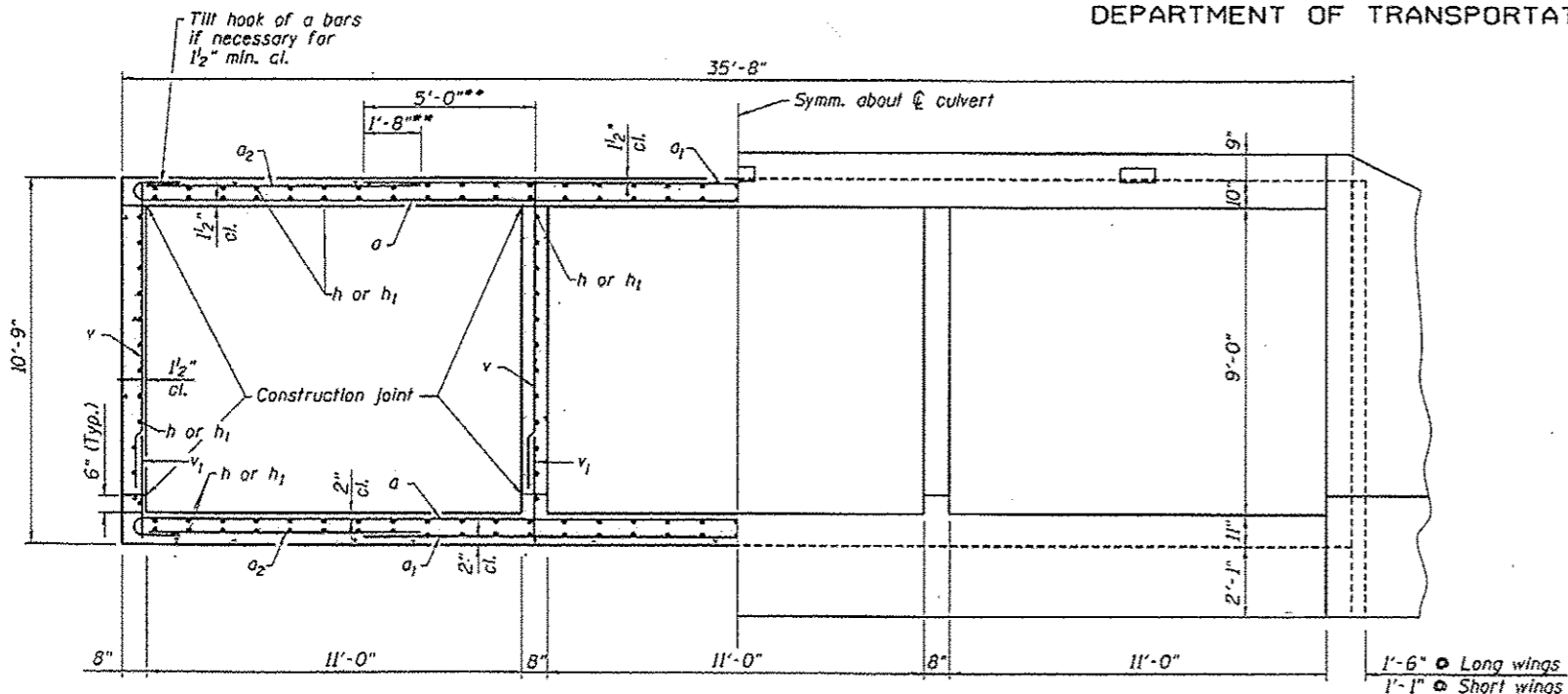
BOX CULVERT DETAILS
STRUCTURE NO. 051-2008

ESCA
CONSULTANTS, INC.

DESIGNED BY:	ELH	03/10
DRAWN BY:	DWH/HAS	03/10
CHECKED BY:	ELH	06/10
APPROVED BY:	RDP	06/10

SHEET NO. 5 10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	781	109B-1	LAWRENCE	34	19
			CONTRACT NO. 74105		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

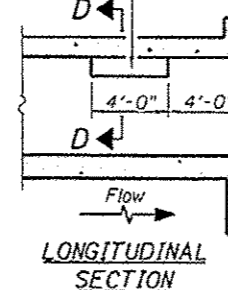


HALF SECTION THRU BARRELS

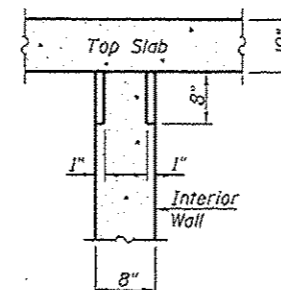
HALF END ELEVATION

** Dimensions noted thus are parallel to $\text{\textcircled{C}}$ Roadway

Notch formed by rough finished board attached to and removed with formwork, each interior wall (do not chamfer).



LONGITUDINAL SECTION



SECTION D-D

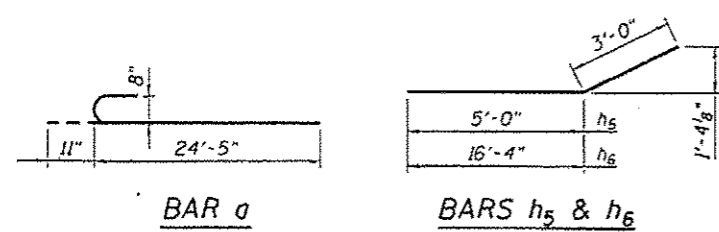
PHOEBE NESTING
SITE DETAILS
(Downstream End Only)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	320	#8	25'-4"	C
a ₁	188	#8	24'-8"	—
a ₂	160	#5	11'-6"	—
d	70	#4	4'-6"	J
h	188	#5	31'-2"	—
h ₁	376	#5	21'-1"	—
h ₂	44	#6	23'-11"	—
h ₃	40	#8	8'-0"	—
h ₄	26	#8	14'-8"	—
h ₅	34	#8	8'-0"	—
h ₆	32	#8	19'-4"	—
s	88	#4	4'-10"	□
s ₁	44	#4	4'-8"	□
v	418	#5	9'-0"	—
v ₁	418	#5	3'-0"	—
v ₂	16	#5	13'-2"	—
Concrete Box Culverts			Cu. Yd.	275.5
Reinforcement Bars			Pound	62,240

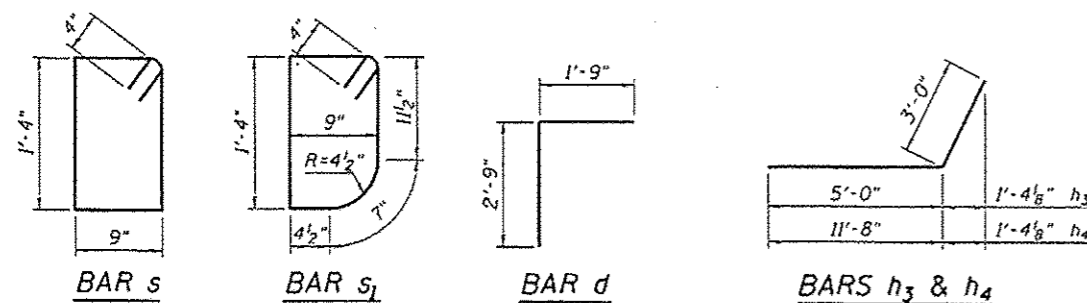
MIN. BAR LAP

#5 ----- 1'-8"
#6 ----- 2'-0"
#8 ----- 4'-6"



BAR a

BARS h₅ & h₆



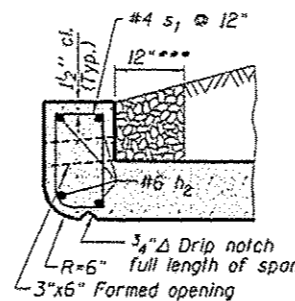
BAR s

BAR s₁

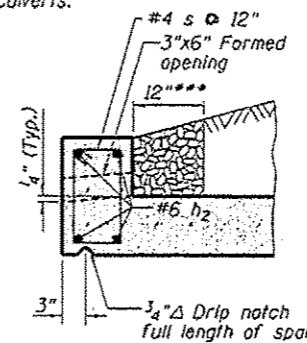
BAR d

BARS h₃ & h₄

*** Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

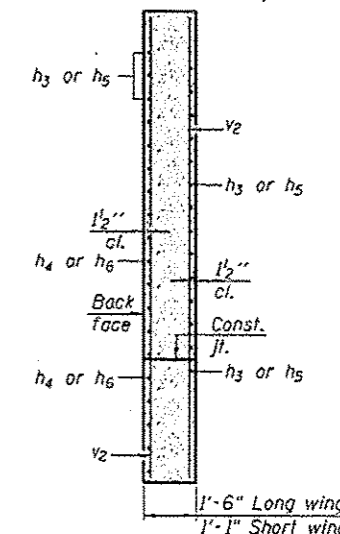


AT UPSTREAM END



AT DOWNSTREAM END

DRAIN DETAILS



SECTION C-C
(Bars shown are in long wing)

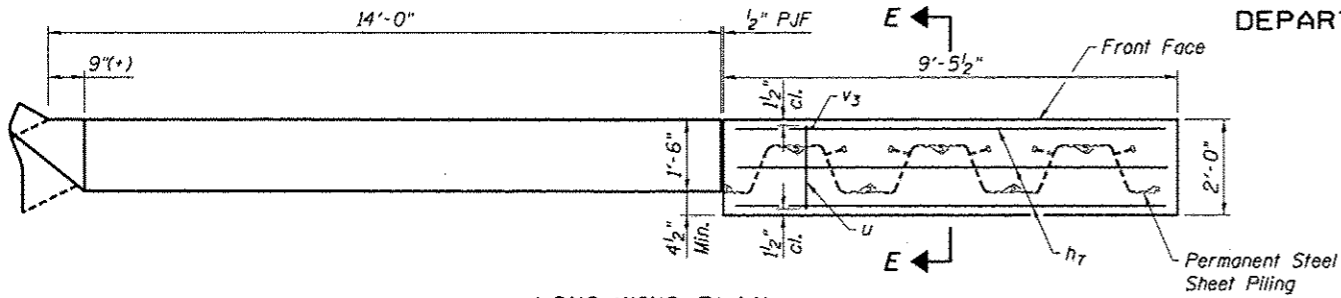
BOX CULVERT DETAILS
STRUCTURE NO. 051-2008

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CONSULTANTS, INC.

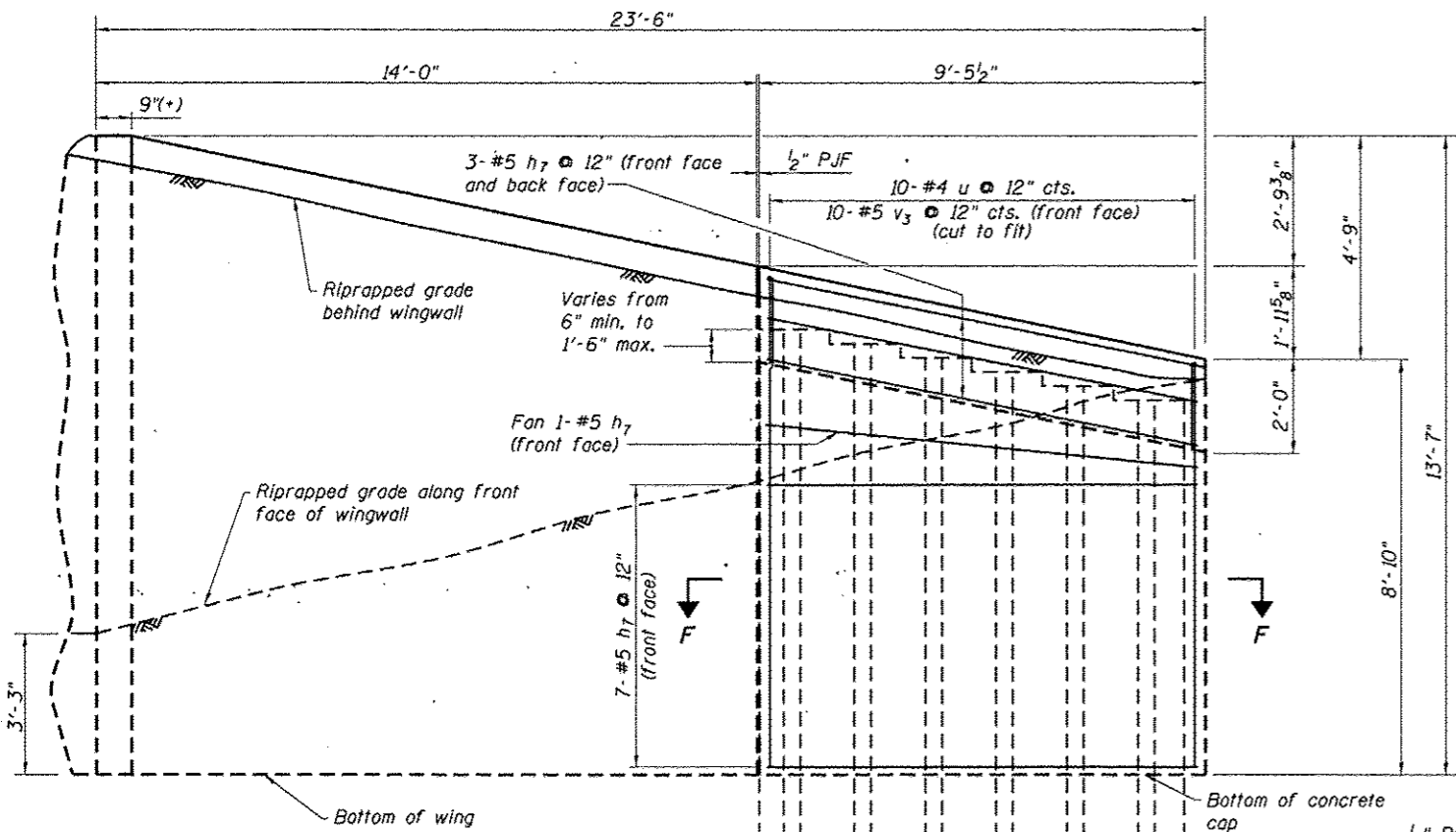
DESIGNED BY:	ELH	03/10
DRAWN BY:	DWH/HAS	03/10
CHECKED BY:	ELH	04/10
APPROVED BY:	RDP	04/10

SHEET NO. 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	781	109B-1	LAWRENCE	34	20
10 SHEETS	CONTRACT NO. 74105				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

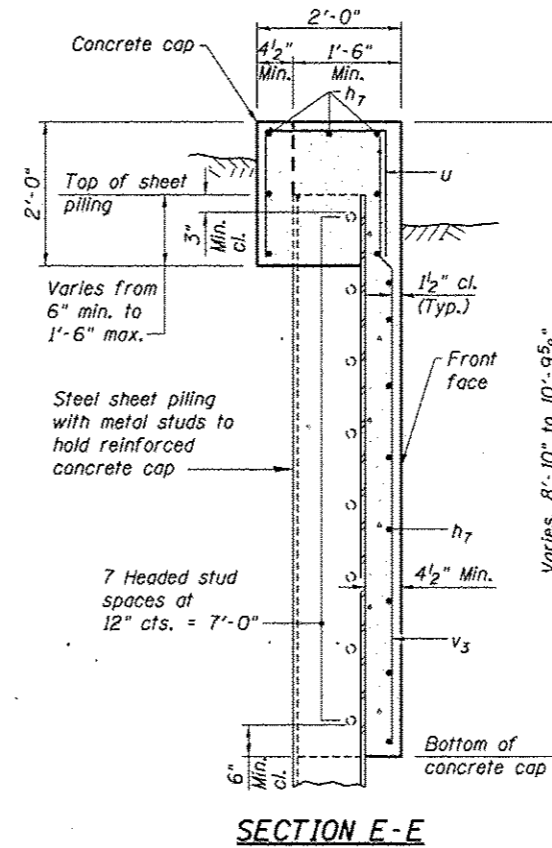
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



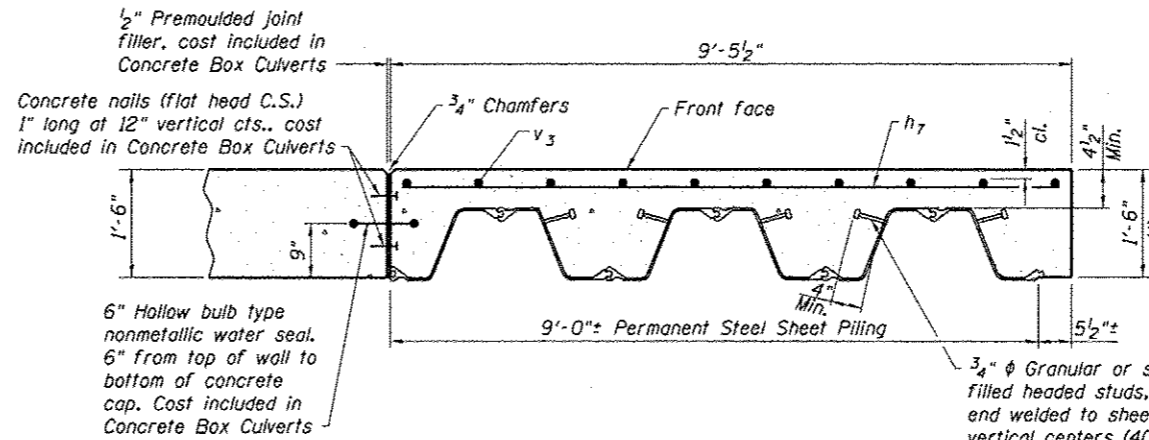
LONG WING PLAN



LONG WING ELEVATION
(Looking at Back Face)



SECTION E-E



SECTION F-F

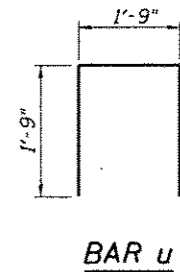
BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
h ₇	28	#5	9'-2"	—
u	20	#4	5'-3"	□
v ₃	10	#5	18'-11"	—
Concrete Box Culverts			Cu. Yd.	8.5
Reinforcement Bars			Pound	540
Permanent Steel Sheet Piling			Sq. Ft.	402

NOTES

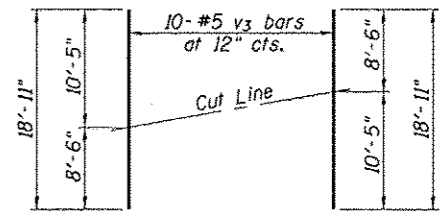
- The quantity of concrete for the sheet piling cap is included in Concrete Box Culverts.
- The cost of supplying and installing the shear studs is included in Permanent Steel Sheet Piling.

CONSTRUCTION SEQUENCE

- Excavate site for box culvert wingwall and steel sheet piling wall.
- Backfill with rock fill as shown on the plans.
- Construct box culvert wingwall and include water seal in concrete pour.
- Install 1/2" PJF with concrete nails.
- Install Permanent Steel Sheet Piling.
- Backfill behind box culvert wingwall and Permanent Steel Sheet Piling.
- Construct concrete cap.
- Complete backfill in front of and behind wall.
- Install stone riprap around wall.



BAR u



BAR v₃

FIELD CUTTING DIAGRAM

Order v₃ full length. Cut as shown and use remainder of bars in opposite wall.

STEEL SHEET PILING WALL DETAILS
STRUCTURE NO. 051-2008

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7	781	109B-1	LAWRENCE	34	21
CONTRACT NO. 74105					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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CONSULTANTS, INC.

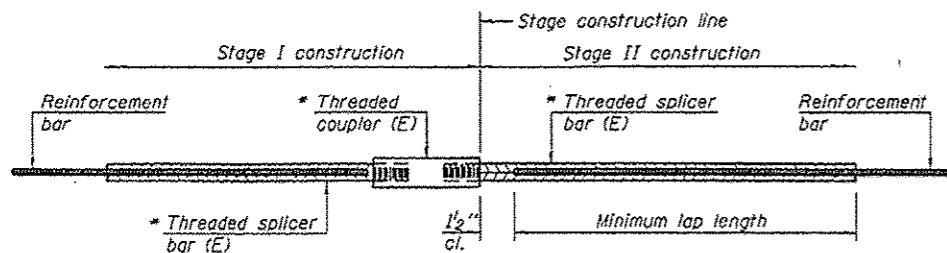
DESIGNED BY:	ELH	03/10
DRAWN BY:	DWH/HAS	03/10
CHECKED BY:	ELH	06/10
APPROVED BY:	RDP	06/10

Permanent Steel Sheet Piling
minimum effective section
modulus = 25 in.³/ft.

Minimum tip elevation
of sheet piling

Elev. 391.18 SE wall
Elev. 391.28 NW wall

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

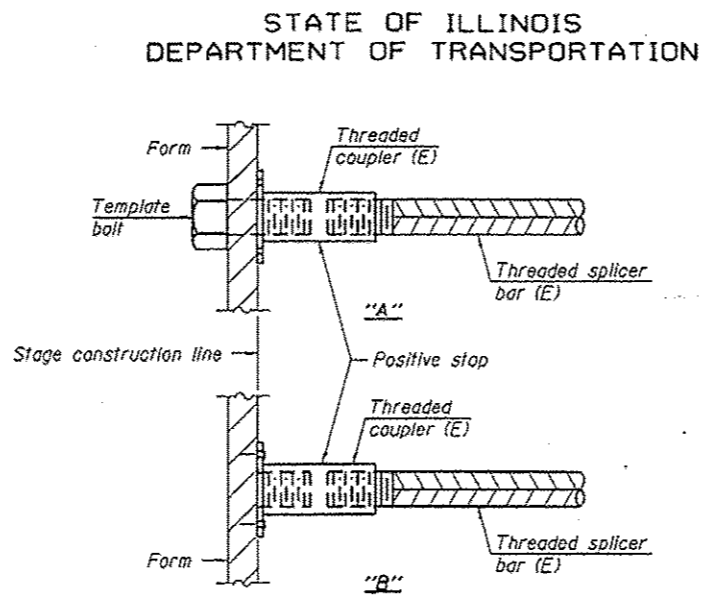
Bar size to be spliced	Minimum Lap Lengths			
	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

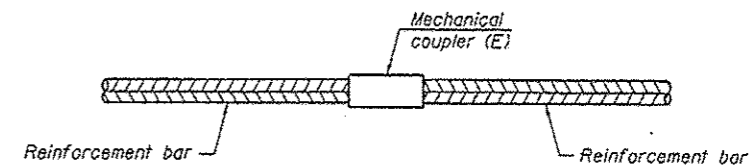
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bottom slab	#5	70	1
Top slab	#5	70	1
Walls	#5	48	1



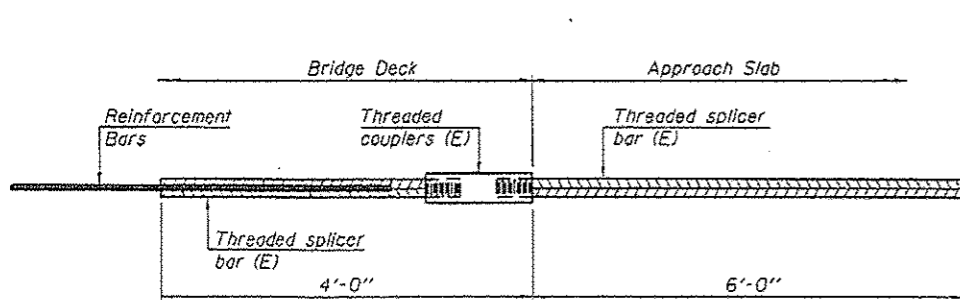
INSTALLATION AND SETTING METHODS

"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.



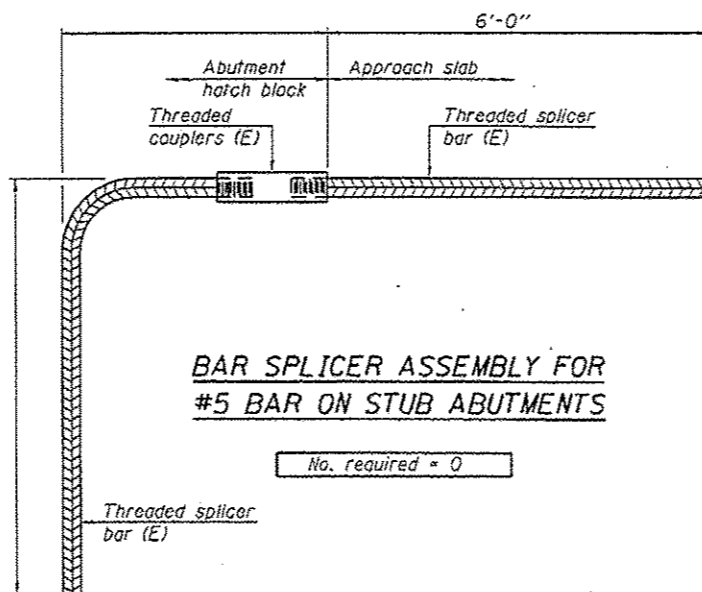
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
NA		



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 0



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 0

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60-ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 051-2008

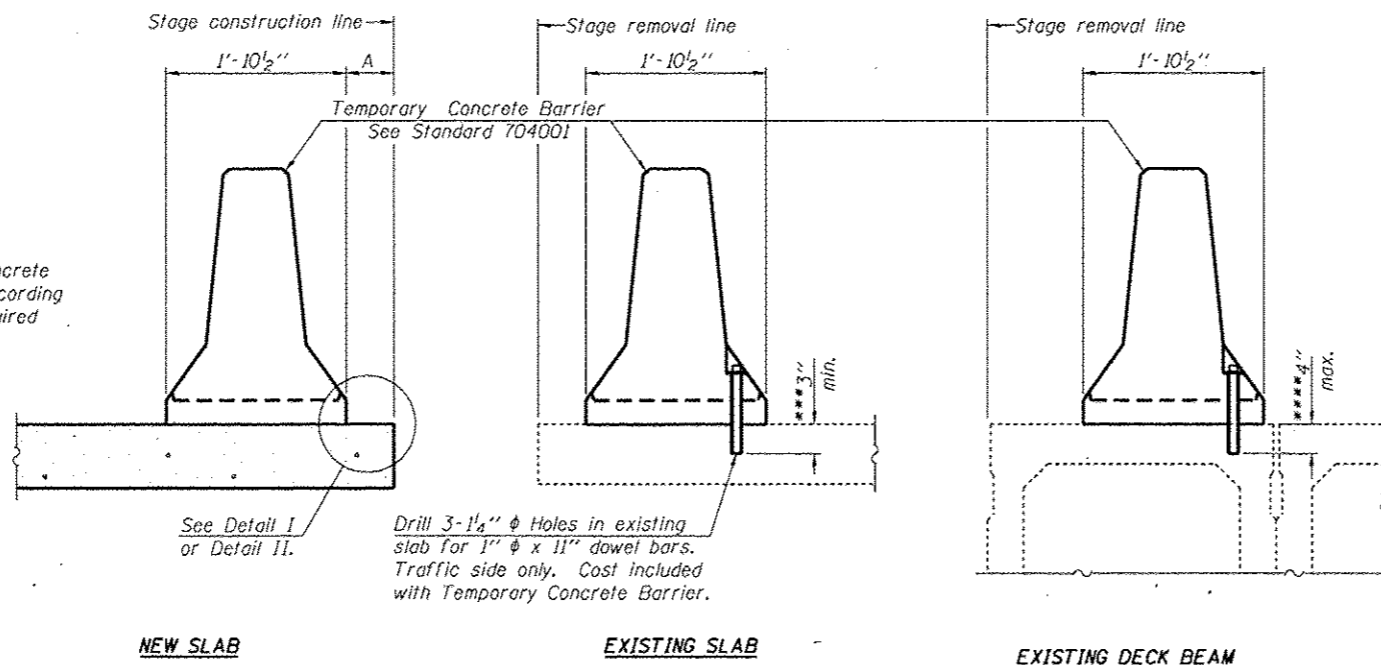
ESCA
CONSULTANTS, INC.

DESIGNED BY: ELH 03/10
DRAWN BY: DWH 03/10
CHECKED BY: ELH 03/10
APPROVED BY: RDP 03/10

BSD-1 11-1-09

SHEET NO. 8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10 SHEETS	781	109B-1	LAWRENCE	34	22
CONTRACT NO. 74105					
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".

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x 10" 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.

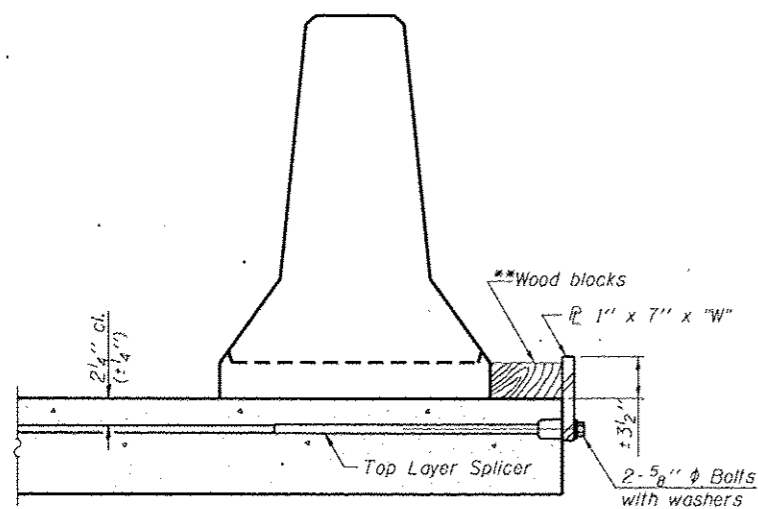
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x 10" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

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

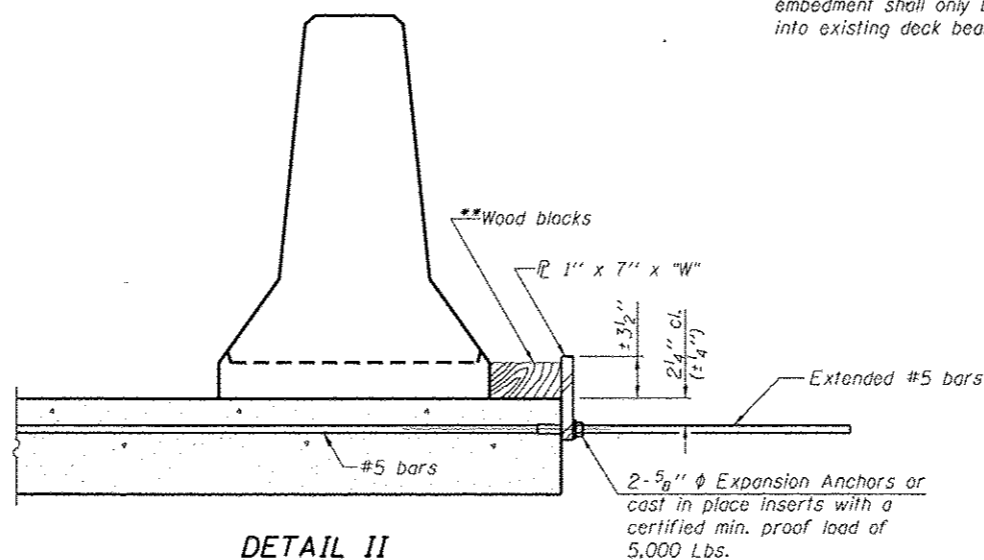
SECTIONS THRU SLAB OR DECK BEAM

*** 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.



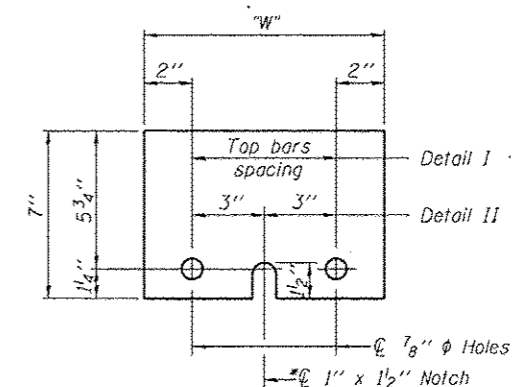
DETAIL I



DETAIL II

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

"W" = Top bars spacing + 4"



STEEL RETAINER \bar{L} 1" x 7" x 10"

* Required only with Detail II

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 051-2008**

ESCA
CONSULTANTS, INC.

DESIGNED BY: ELH 03/10
DRAWN BY: DWH 03/10
CHECKED BY: ELH 03/10
APPROVED BY: RDP 03/10

R-27 11-1-09

SHEET NO. 9 10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	781	109B-1	LAWRENCE	34	23
CONTRACT NO. 74105					
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

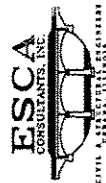
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
SOIL BORING LOG Page 1 of 3

ROUTE 781 (R. 33) DESCRIPTION Un-Named Stream LOGGED BY E. Sandachaler
SECTION 109B-1 LOCATION NW 1/4, SEC. 33, TWP. 5 N, R. 10 W, 3 PM Date 10/15/08

COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140R

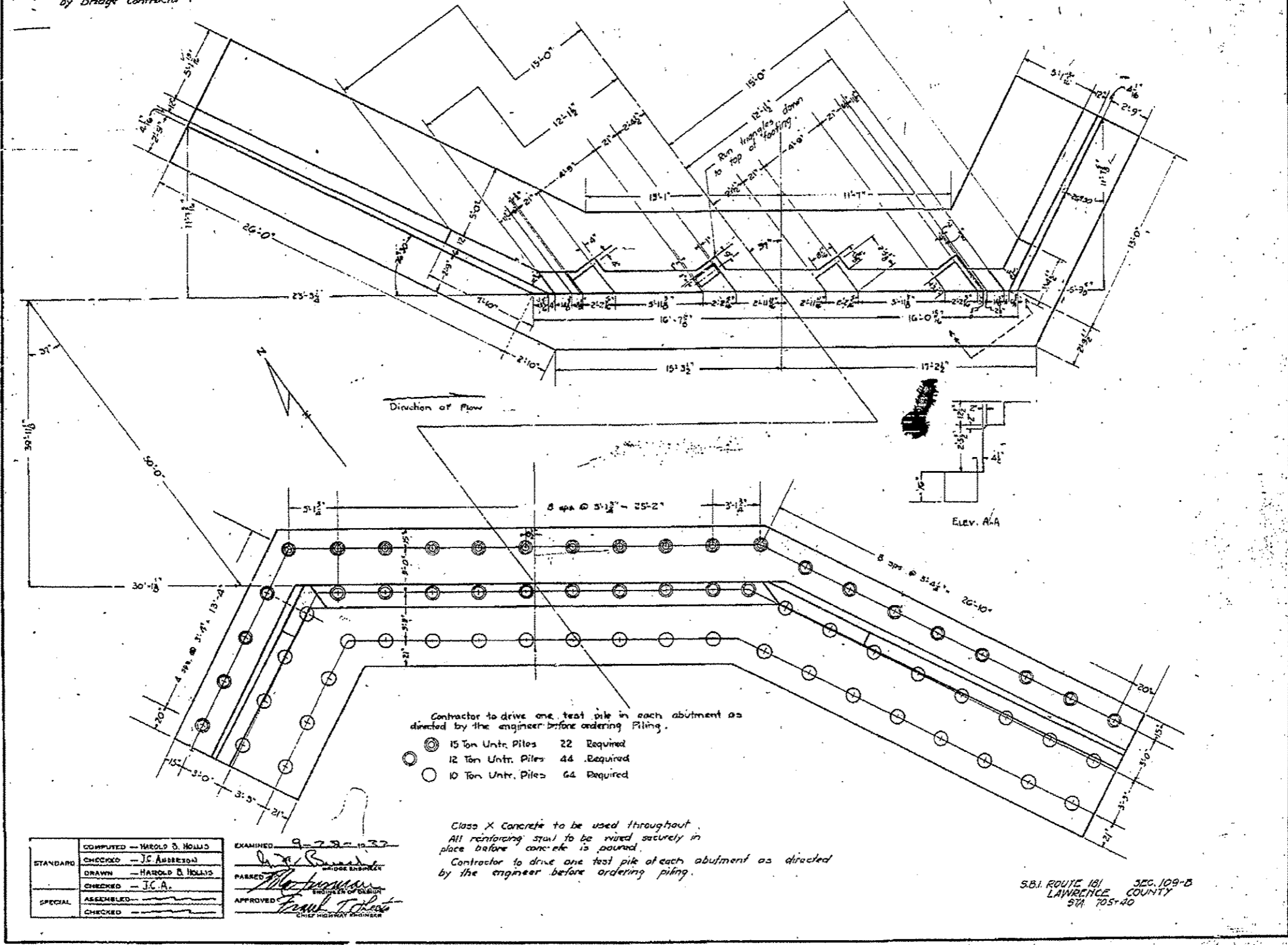
STRUCT. NO.	STATION	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W	S	E	L	C	O	S	M	D	B	U	M	S	T	W
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Bench Mark: Mark X on NW Wing-Wall 60' Lt. Sta. 707+00, Elev 48.93.
 Existing Structures: Eighty feet (80') left Sta. 705+80 - 36' I-Beam span S-70' left Sta. 706+00 - 18' I-Beam span, 16' roadway. To be removed by Bridge Contractor.

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

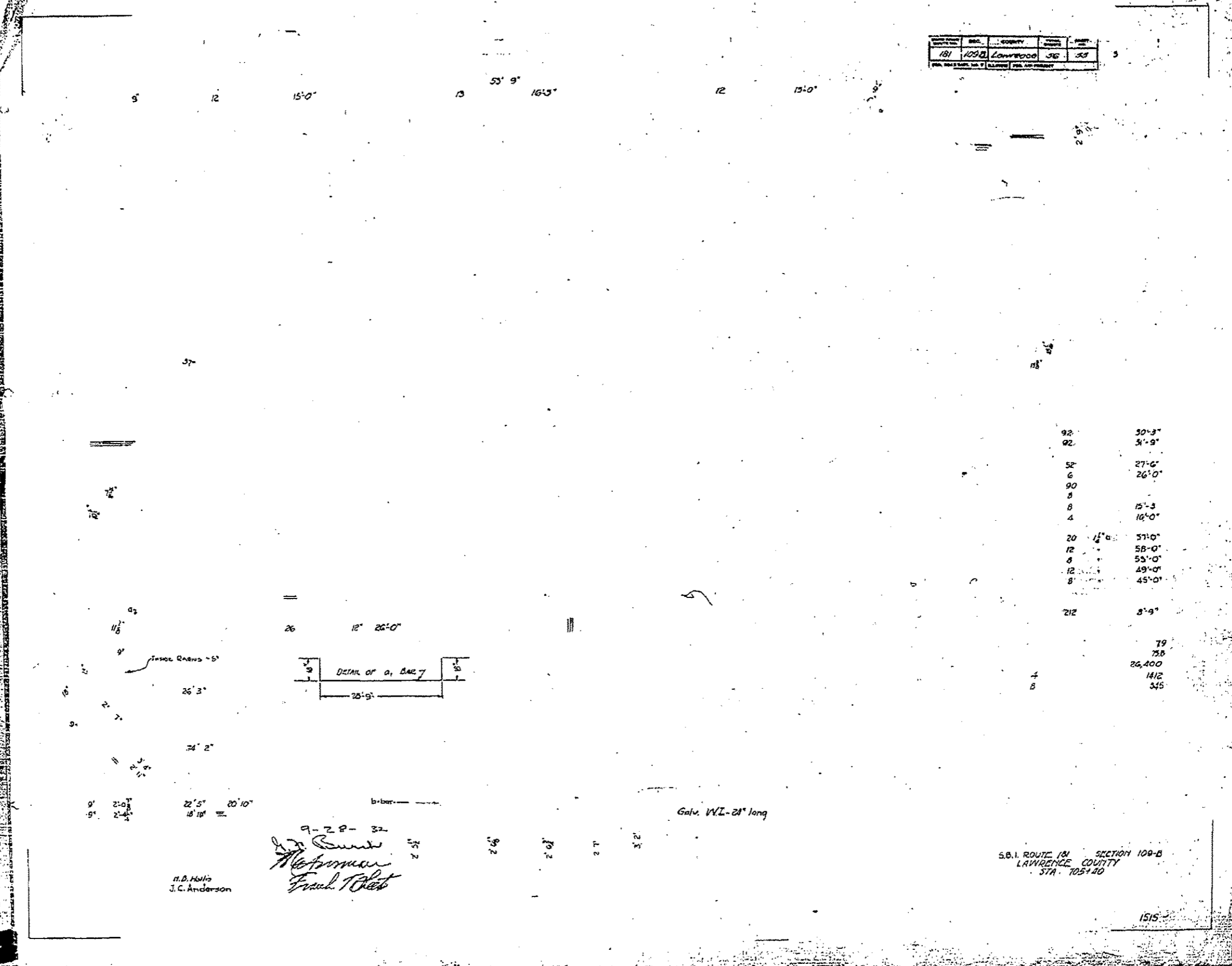
PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
181	109B	Lawrence	26	36



COMPUTED	HAROLD B. HOLLIS	EXAMINED	9-28-10
CHECKED	J.C. ANDRESON	PASSED	<i>[Signature]</i>
DRAWN	HAROLD B. HOLLIS	APPROVED	<i>[Signature]</i>
CHECKED	J.C.A.	ENGINEER OF DISTRICT	
SPECIAL	ASSEMBLED	APPROVED	<i>[Signature]</i>
	CHECKED	CHIEF HIGHWAY ENGINEER	

FOR INFORMATION ONLY

PROJECT NO.	DIST.	COUNTY	SHEET NO.	TOTAL SHEETS
181	109B	Lawrence	36	38
FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT				



FOR INFORMATION ONLY

FILE NAME =	USER NAME = staffanmk	DESIGNED -- DAJ	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">EXISTING STRUCTURE PLANS</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8794161644\pwwd00.dgn	4195-ah-tr-rem04.dgn	DRAWN - HAS	REVISED -			761	109B-1	LAWRENCE	34	28
PLOT SCALE = 0.1667" / 1"	CHECKED - ELH	REVISED -	REVISED -			CONTRACT NO. 74105				
PLOT DATE = 6/2/2014 1:26:50 PM	DATE - 02/10	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT AID				
SCALE:						SHEET NO. 4 OF 4 SHEETS		STA.	TO STA.	



BY: _____ DATE: _____

ORIGINAL SHEET NO. _____

SUBMITTED FOR: _____

DATE: _____

BY: _____

NO. _____

DESIGNED BY: _____

CHECKED BY: _____

DATE: _____

BY: _____ DATE: _____

ORIGINAL SHEET NO. _____

SUBMITTED FOR: _____

DATE: _____

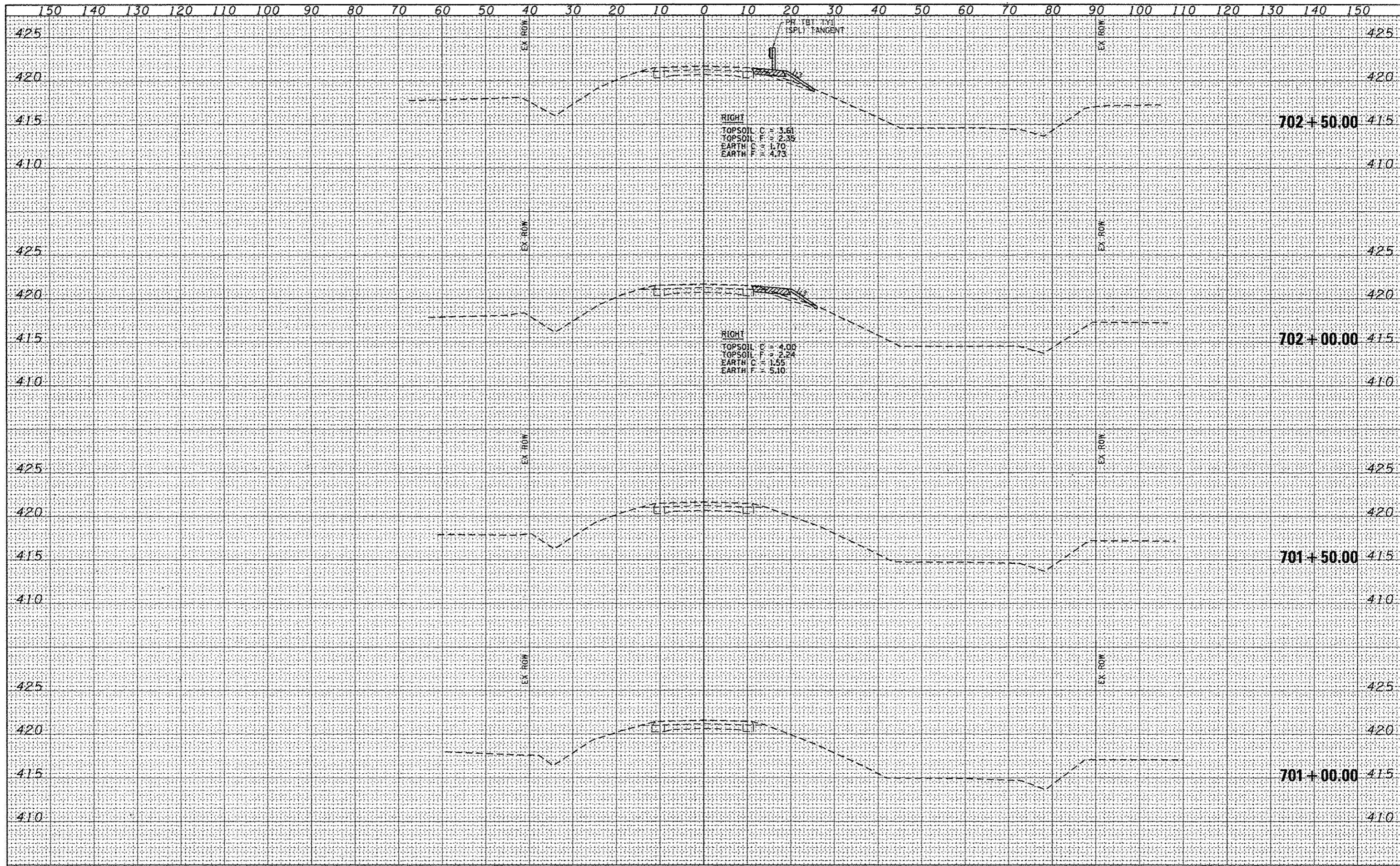
BY: _____

NO. _____

DESIGNED BY: _____

CHECKED BY: _____

DATE: _____

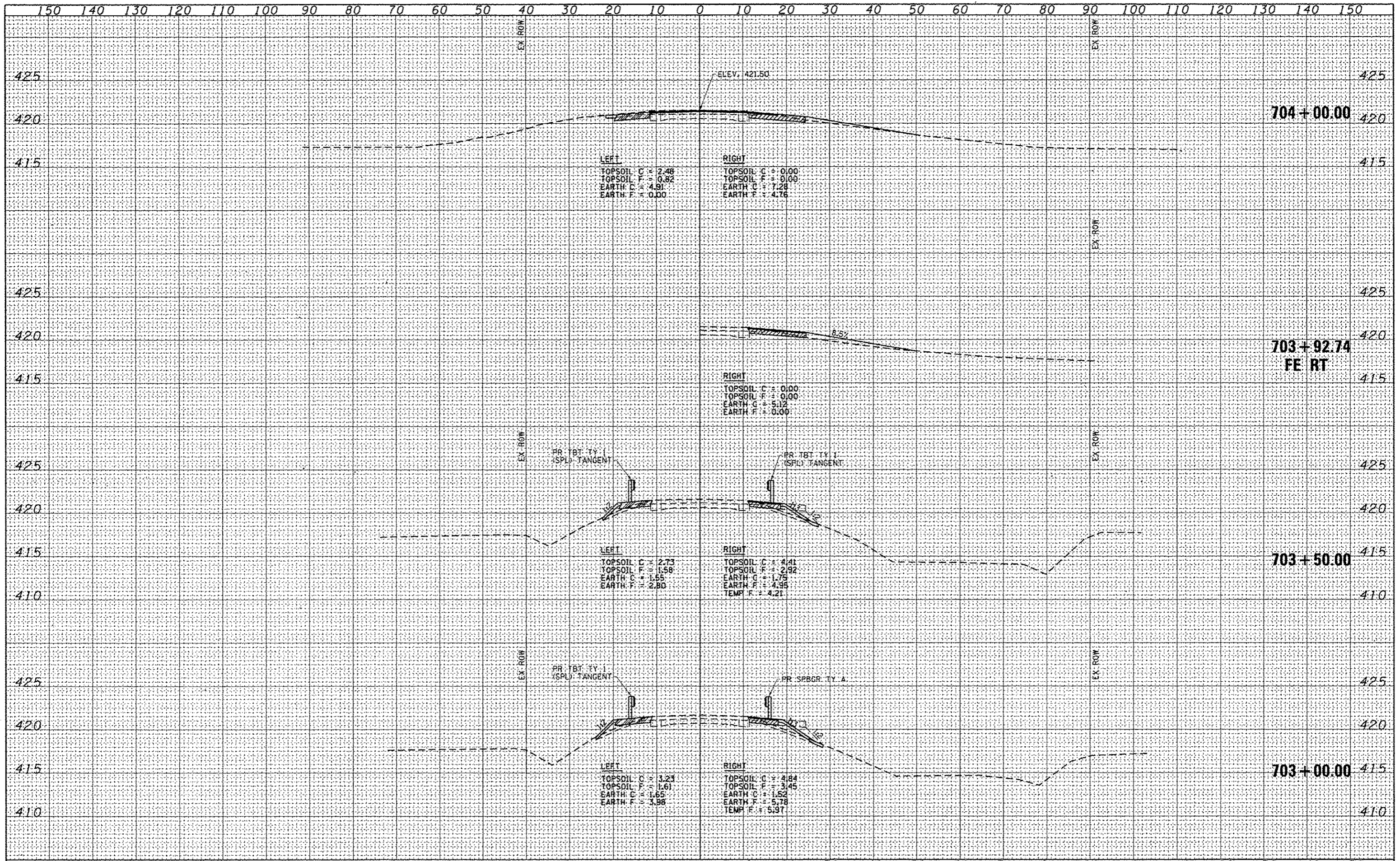


FILE NAME: 87402109k\pawab2\staff\erik\108273129\0774105-101-1000.dwg	USER NAME: staff\erik	DESIGNED - DAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 781 (IL 33) CROSS SECTIONS	F.A.P. RTE. 781	SECTION 109B-1	COUNTY LAWRENCE	TOTAL SHEETS 34	SHEET NO. 29		
PLOT SCALE: 28.0000' / 1" = 28'	PLOT DATE: 6/2/2014 11:24:53 PM	DRAWN - RJT/HAS	REVISOR -			SCALE: AS SHOWN	SHEET NO. 1 OF 6 SHEETS	STA. 701+00	TO STA. 702+50	CONTRACT NO. 74105		
DATE - 06/11	CHECKED - ELH	REVISOR -	REVISOR -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



DATE	
BY	
ORIGINAL SURVEY	
SAVED	
PLOTTED	
NOTE BOOK	
TEMP. DATE	
AREAS CHECKED	

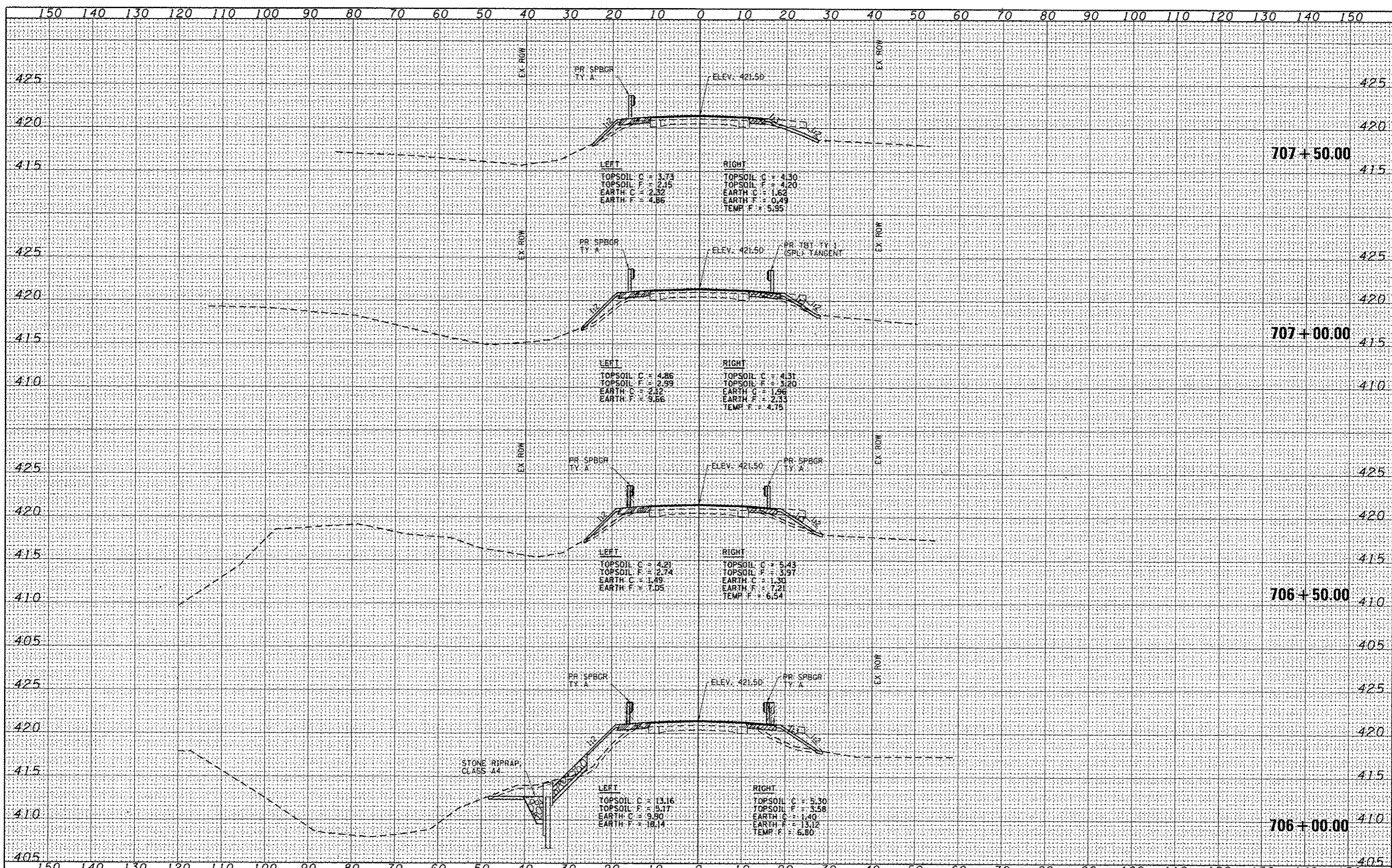
DATE	
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AREAS CHECKED	





DATE	
BY	
FINAL SURVEY	
SAVED	
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NOTE BOOK	
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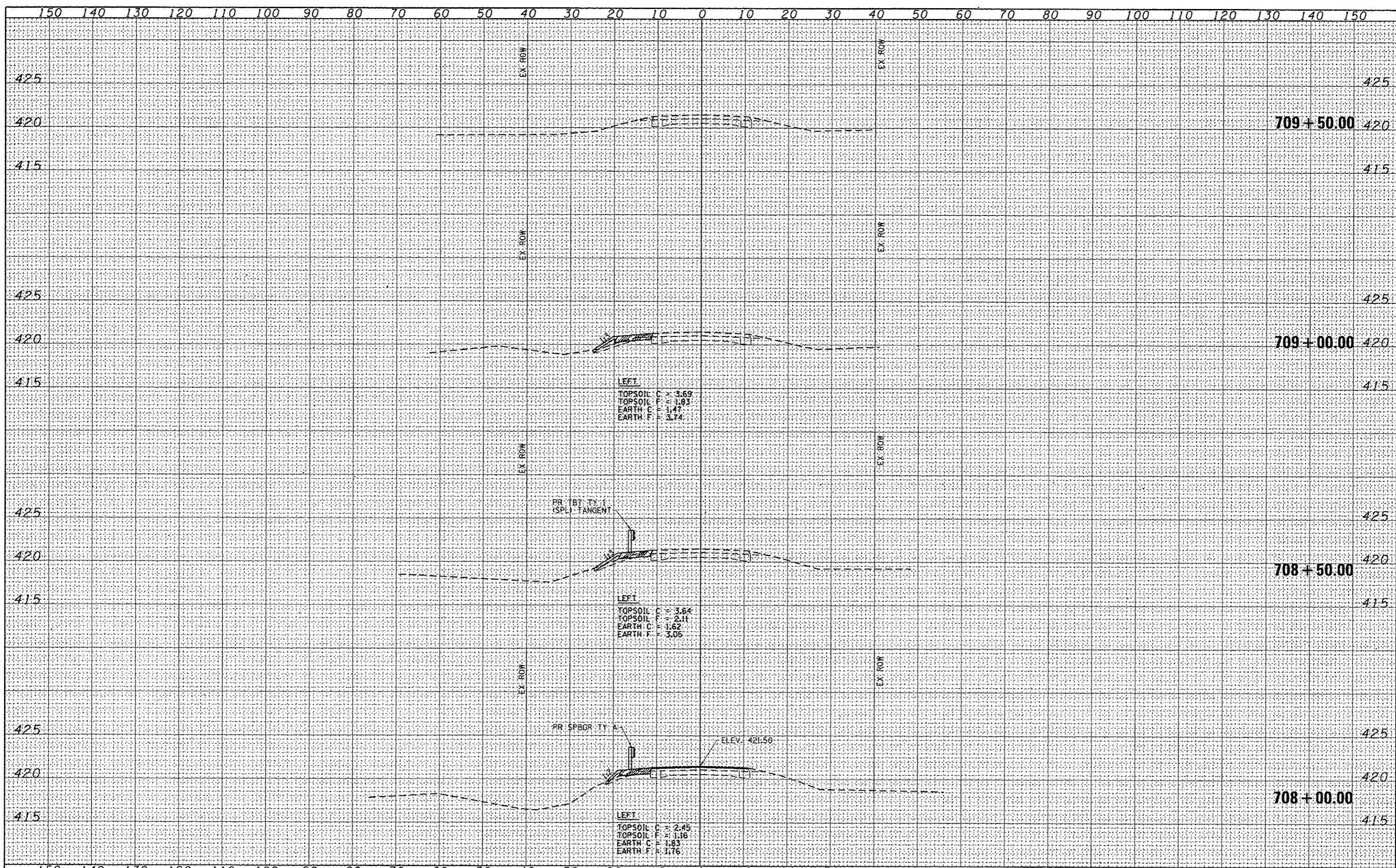


FILE NAME =	USER NAME = stafferink	DESIGNED - DAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 781 (IL 33) CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
BR\2010\work\spw\st\staff\erink\10273139\0774105-1\1098-1.dgn	PLOT SCALE = 28.0000' / in.	DRAWN - RJT/HAS	REVISED -			781	1098-1	LAWRENCE	34	32	
SCALE: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 6/2/2014 1:36:28 PM	CHECKED - ELH	REVISED -			CONTRACT NO. 74105					
	DATE - 06/11	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



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DRAWN	
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DATE	

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BY	
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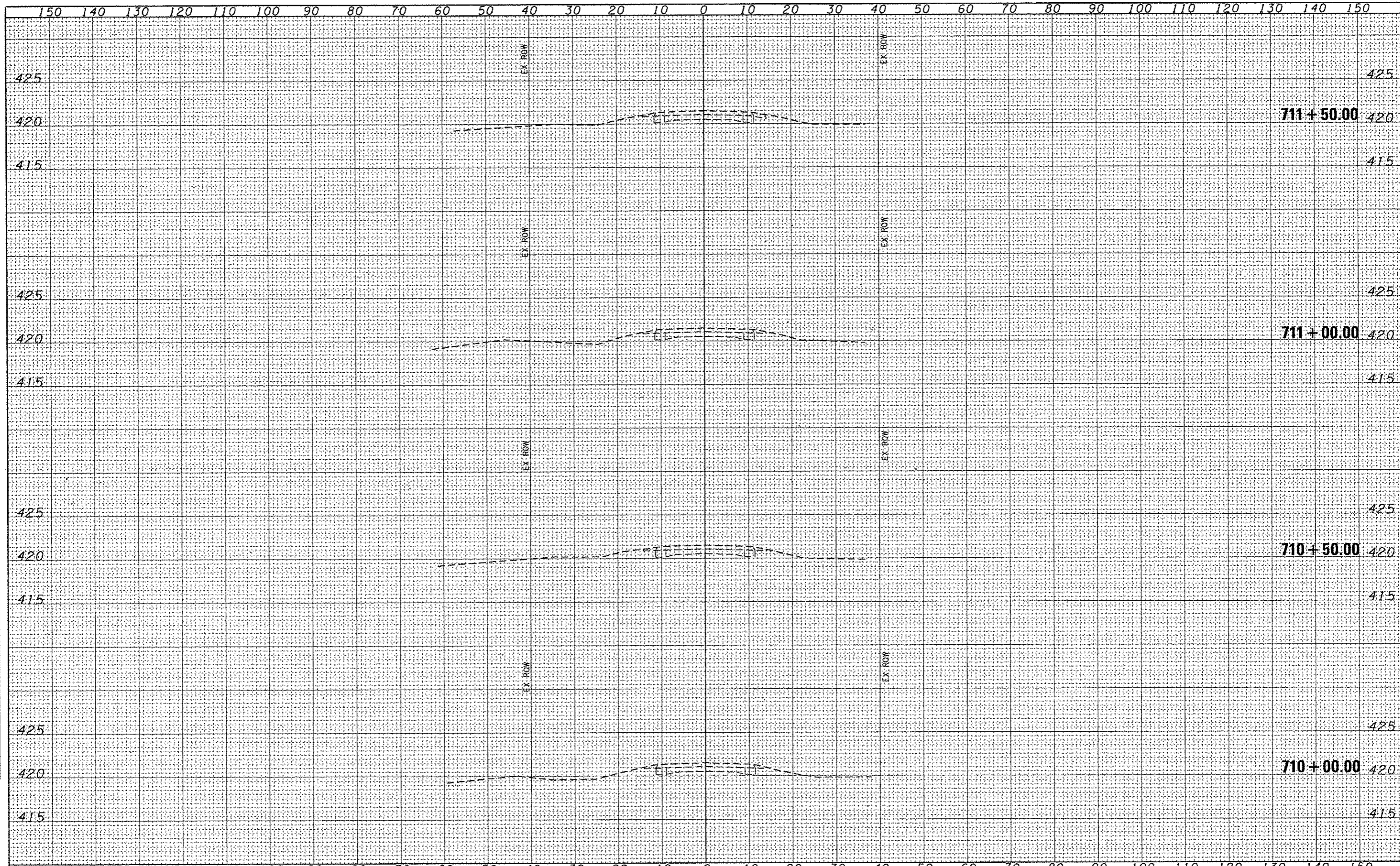




ESCA CONSULTANTS, INC.
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 1000 N. GARDEN AVENUE, SUITE 200
 CHICAGO, ILLINOIS 60610-3123
 TEL: (773) 233-8800 FAX: (773) 233-8801
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FILE NAME: D:\Projects\1098-1\1098-1.dgn	USER NAME: staff\ank	DESIGNED: DAJ	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 781 (IL 33) CROSS SECTIONS	F.A.P. RTE. 781	SECTION 1098-1	COUNTY LAWRENCE	TOTAL SHEETS 34	SHEET NO. 34	
PLOT SCALE: 28.0000' / in.	DATE: 06/11	DRAWN: RJY/HAS	REVISED: -			SCALE: AS SHOWN	SHEET NO. 6 OF 6 SHEETS	STA. 710+00	TO STA. 711+50	FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT
PLOT DATE: 6/2/2014 11:37:57 PM	DATE: 06/11	CHECKED: ELH	REVISED: -			CONTRACT NO. 74105					
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	DATE: 06/11	REVISIONS:									