06-12-2015 LETTING ITEM 169

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	1
	ILLINOIS	CONTRACT NO. 93632		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED BRIDGE REPLACEMENT

MAJOR BRIDGE PROGRAM
FAS ROUTE 725 (CH 11) OVER WEST FORK SHOAL CREEK
HILLSBORO TOWNSHIP
SECTION 09-00130-00-BR
MONTGOMERY COUNTY
PROJECT NO. BRS-0725(103)

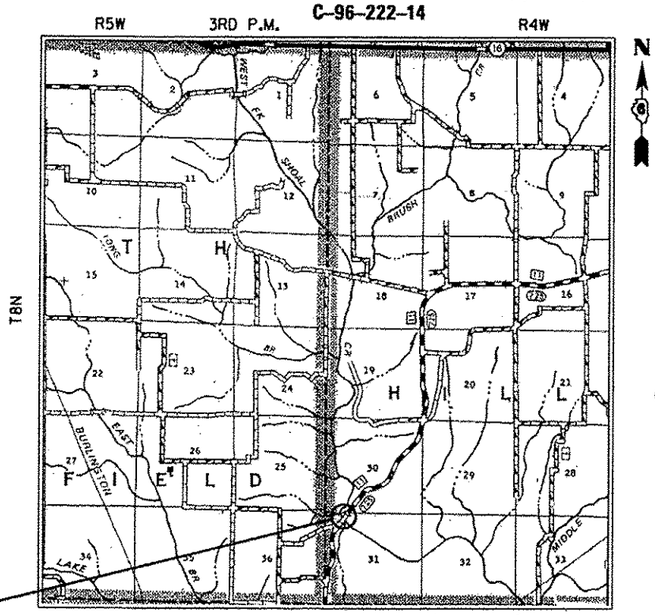
C-96-222-14

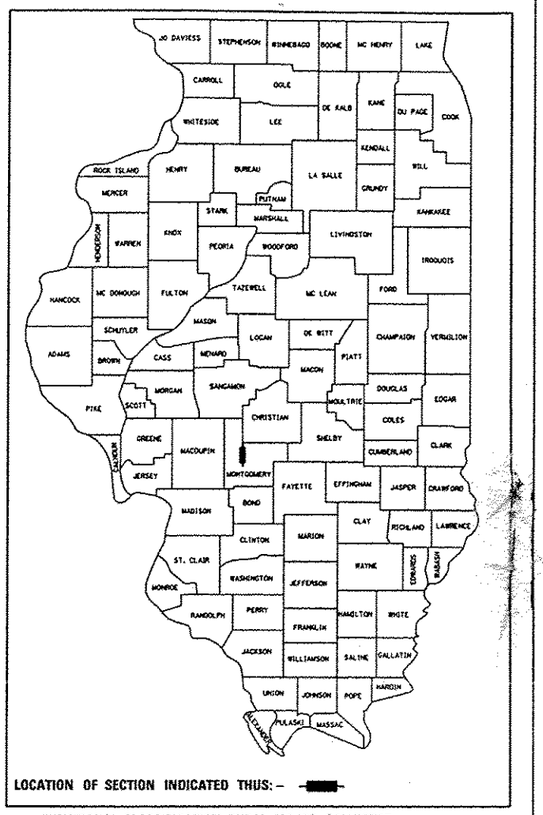
INDEX OF SHEETS

1 COVER SHEET
2 SUMMARY OF QUANTITIES
3 GENERAL NOTES, CONTROL POINT TIES, ENTRANCE DETAILS, AND SCHEDULES
4 EXISTING TYPICAL SECTIONS
5 - 6 PROPOSED TYPICAL SECTIONS
7 PLAN AND PROFILE
8 EROSION CONTROL & GRADING PLAN
9 - 20 BRIDGE PLANS
21 - 38 CROSS SECTIONS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS & 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
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
701901-04	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

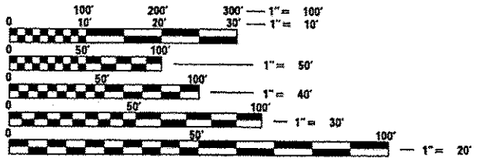




FUNCTIONAL CLASSIFICATION: RURAL MAJOR COLLECTOR
2015 /2035 ADT = 600 /645
DESIGN SPEED = 50 MPH

UTILITY COMPANIES:

MJM ELECTRIC CO-OP
264 N. EAST ST.
PO BOX 80
CARLINVILLE, IL 62626
PHONE: (217) 854-3137
CONTACT: CHARLIE BAKER



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

PROJECT MANAGER: CORY W. CHAMBERLAIN, P.E., S.E.

CONTRACT NO. 93632

design firm no. 184001036 whks engineers + planners + land surveyors

THE WORK CONSISTS OF REMOVING THE EXISTING BRIDGE AND CONSTRUCTING A NEW STRUCTURE (SN 068-3360) AT STA. 187+58.00 WITH A THREE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE ON CONCRETE PILE BENT ABUTMENTS AND DRILLED SHAFT PIERS, 30'-0" CLEAR ROADWAY WIDTH AND 212'-0" BACK TO BACK OF ABUTMENTS, 0° SKEW, VARIABLE WIDTH TRANSITION APPROACHES AND OTHER COLLATERAL WORK.

LICENSED PROFESSIONAL ENGINEER
CORY W. CHAMBERLAIN
062-055298
STATE OF ILLINOIS

2-13-2015
Expires: 11/30/2015

APPROVED FEB. 13TH 20 15
COUNTY ENGINEER

APPROVED 2/17 20 15
DISTRICT SIX ENGINEER OF LOCAL ROADS AND STREETS

Releasing For Bid Based on Limited Review 2/17 20 15
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.3
20200100	EARTH EXCAVATION	CU YD	5,471
20300100	CHANNEL EXCAVATION	CU YD	7,341
28000305	TEMPORARY DITCH CHECKS	FOOT	133
28000400	PERIMETER EROSION BARRIER	FOOT	188
28100109	STONE RIPRAP, CLASS A5	SQ YD	2,218
28200200	FILTER FABRIC	SQ YD	2,218
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	1,158
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	16
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	20
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	436
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COAT)	GALLON	1,644
40300500	COVER COAT AGGREGATE	TON	34
40300600	SEAL COAT AGGREGATE	TON	18
44000100	PAVEMENT REMOVAL	SQ YD	976
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	197
50300225	CONCRETE STRUCTURES	CU YD	123.4
50300260	BRIDGE DECK GROOVING	SQ YD	654
50300300	PROTECTIVE COAT	SQ YD	701
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	6,300
50800105	REINFORCEMENT BARS	POUND	6,800
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	41,620

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	50800515	BAR SPLICERS	EACH	264
	50800530	MECHANICAL SPLICERS	EACH	96
*	50901050	STEEL RAILING, TYPE SM	FOOT	424
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	280
	51202305	DRIVING PILES	FOOT	280
	51203800	TEST PILE STEEL HP 14X73	EACH	1
	51204650	PILE SHOES	EACH	12
	51500100	NAME PLATES	EACH	1
	51602000	PERMANENT CASING	FOOT	102
	51603000	DRILLED SHAFT IN SOIL	CU YD	37.1
	51604000	DRILLED SHAFT IN ROCK	CU YD	41.9
	59300100	CONTROLLED LOW STRENGTH MATERIAL	CU YD	65.7
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	125
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	3
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3
*	63200310	GUARDRAIL REMOVAL	FOOT	95
	66600105	FURNISHING AND ERECTING R.O.W. MARKERS	EACH	8
	67100100	MOBILIZATION	L SUM	1
	70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	10
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3
	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.7
	X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	701
*	X6310188	TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)	EACH	1
Δ	Z0076600	TRAINEES	HOUR	1,000
Δ	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000

* SPECIALTY ITEMS

Δ 0042

design firm no. 184001036 — whks engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = SUM.SHT.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	2
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

1 ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN IN THE PLANS.

2 THESE PLANS HAVE BEEN PREPARED USING STANDARD SYMBOLS AS INDICATED IN THESE PLANS, AND THEY SHALL TAKE PRECEDENCE OVER THOSE SHOWN ON STANDARD 000001-06 IF THERE IS A CONFLICT.

3 WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.

4 ALL ELEVATIONS ARE BASED ON NAVD 88. THE PROPOSED GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND STATION CROSS SECTIONS ARE THE ELEVATIONS FOR THE FINISHED SURFACE AT THE LOCATIONS INDICATED.

5 ALL STATIONS AND OFFSETS ARE REFERENCED FROM THE EXISTING CENTERLINE ALIGNMENT.

6 THE EXISTING AND PROPOSED CROSS SECTIONS HAVE BEEN PLOTTED ALONG THE EXISTING CENTERLINE ALIGNMENT.

7 THE CONTRACTOR SHALL PROTECT UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

MJM ELECTRIC CO-OP
J.U.L.I.E: 1-800-892-0123

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BE CONTACTING J.U.L.I.E., OR FOR NON-MEMBERS BY CONTACTING THE UTILITY COMPANY DIRECTLY.

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN SUBMITTING HIS BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCES CAUSED BY THE SAME.

THE INFORMATION AND DATA SHOWN OR INDICATED ON THESE IMPROVEMENT PLANS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AND UTILITIES AT OR CONTIGUOUS TO THE SITE IS BASED ON INFORMATION AND DATA FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITES AND UTILITES, OR BY OTHERS. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE TO THE RESIDENT ENGINEER SO THAT UTILITIES CAN BE GIVEN NOTICE. NO GUARANTEE IS IMPLIED AS TO THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA; AND THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR: 1) REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, 2) VERIFYING IF ANY CONFLICTS EXIST WITH THE PROPOSED WORK AND UNDERGROUND FACILITIES AND UTILITES SHOWN OR INDICATED ON THE IMPROVEMENT PLANS 3) COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES AND UTILITIES DURING CONSTRUCTION, AND 4) THE SAFETY AND PROTECTION OF ALL SUCH UNDERGROUND FACILITIES AND UTILITIES, AND REPAIR ANY DAMAGE THERETO RESULTING FROM THE WORK AT HIS EXPENSE.

8 THE CONTRACTOR WILL BE REQUIRED TO REPAIR THOSE AREAS THAT ARE DAMAGED AS A PART OF THE EXECUTION OF THIS CONTRACT OR AS OTHERWISE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE MEASURED FOR PAYMENT. THE COST OF SEEDING, FERTILIZING, AND MULCHING AREAS OF TURF THAT ARE DAMAGED WILL BE CONSIDERED INCLUDED IN THE COST OF THE VARIOUS WORK ITEMS RELATED TO THE OPERATIONS CAUSING THE DAMAGE.

9 ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPTERY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

10 LAYOUT OF EROSION CONTROL ITEMS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

11 WHEN INSTALLING RIGHT-OF-WAY MARKERS, CARE SHALL BE TAKEN TO NOT DISTURB ANY EXISTING PROPERTY/RIGHT-OF-WAY PINS. IF A PROPERTY/RIGHT-OF-WAY PIN IS FOUND AT THE LOCATION OF A PROPOSED RIGHT-OF-WAY MARKER, THE MARKER SHALL BE PLACED ONE (1) FOOT IN FRONT OF THE PIN.

12 THE FOLLOWING RATES WERE USED IN CALCULATING QUANTITIES FOR THIS PROJECT:

AGGREGATE BASE/SURFACE COURSE: 2.05 TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT/COVER AND SEAL COATS): 0.375 GAL/SQ YD
COVER COAT AND SEAL COAT AGGREGATE: 23 POUNDS/SQ YD

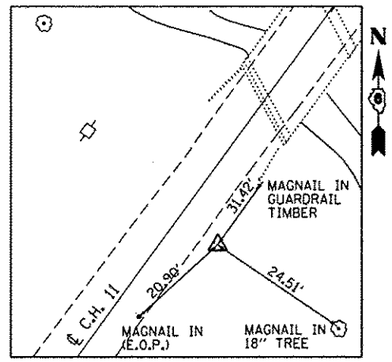
13 CONTRACTOR SHALL FOLLOW CONSTRUCTION REQUIREMENTS OF SECTION 611 WHEN EXISTING FIELD TILE IS ENCOUNTERED UNLESS DIRECTED OTHERWISE BY THE ENGINEER. THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.

14 THE CONTRACTOR SHALL REPLACE ALL STREET SIGNS REMOVED DURING CONSTRUCTION AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION OR AS DETERMINED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE WORK ITEMS SPECIFIED.

15 ALL SAW CUTS NECESSARY TO COMPLETE THE WORK AS DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.

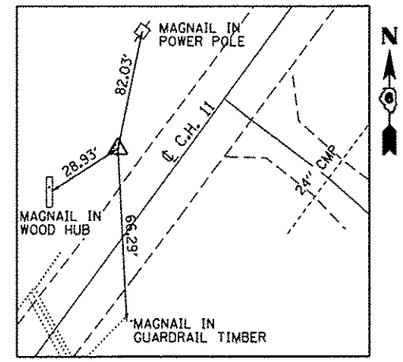
16 CONCRETE FOR WEARING SURFACE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI. SEE SPECIAL PROVISIONS.

CP D (PT 10017)



STA. 186+42, 17' RT.
1/2" DIA. IRON PIN
N 886,690.08 E 2,462,558.62

CP E (PT 10001)



STA. 188+94, 18' LT.
1/2" DIA. IRON PIN
N 886,913.73 E 2,462,679.20

CONTROL POINT TIES

SCHEDULES

EROSION CONTROL SCHEDULE

STA. LT	STA. RT	28000305 TEMP DITCH CHECKS (FOOT)	28000400 PERIM EROS BAR (FOOT)
185+05		7	
186+40		7	
186+50		7	
186+60		7	
186+70		7	
186+80		7	
186+90		7	
187+00		7	
	184+50	7	
	185+20	7	
	185+90	7	
	186+60	7	
	187+00	7	
	188+15	7	
	188+25	7	
	188+40	7	
	188+50	7	
	188+65	7	
	188+75	7	
188+65 LT	190+50 LT		188
TOTAL =		133	188

GUARDRAIL SCHEDULE

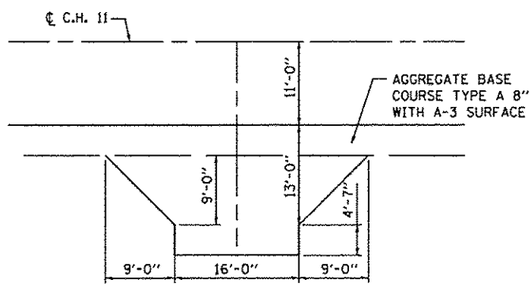
LOCATION	63000001 SPBGR, TY A, 6' POSTS (FOOT)	63100087 TRAF BAR TERM, TY 6A (EACH)	63100167 TRAF BAR TERM, TY 1 (SPCL) TANG (EACH)	X6310188 TRAF BAR TERM, TY 6A (MOD) (EACH)
STA. 185+58.25 TO STA. 186+08.25, LT			1	
STA. 186+08.25 TO STA. 186+52.00, LT		1		
STA. 188+64.00 TO STA. 189+07.75, LT		1		
STA. 189+07.75 TO STA. 189+57.75, LT	75			
STA. 189+57.75 TO STA. 190+07.75, LT			1	
STA. 184+83.25 TO STA. 185+33.25, RT			1	
STA. 185+33.25 TO STA. 186+08.25, RT	50			
STA. 186+08.25 TO STA. 186+52.00, RT		1		
STA. 188+64.00 TO STA. 189+07.75, RT				1
TOTAL	125	3	3	1

EARTHWORK SCHEDULE

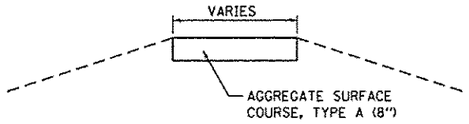
	20200100 EARTH EXC (CU YD)	20300100 CHANNEL EXC (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (CU YD)	EMBANKMENT (FILL) (CU YD)	EARTHWORK BALANCE WASTE (+) AND SHORTAGE (-) (CU YD)
STA. 184+00 TO STA. 186+52	5,319		3,990	2,540	1,450
STA. 186+52 TO STA. 188+64		7,341	2,753	466	2,287
STA. 188+64 TO STA. 190+50	152		114	42	72
TOTAL	5,471	7,341	6,857	3,048	3,809

* SHRINKAGE FACTOR FOR EARTH EXCAVATION AND SUITABLE CHANNEL EXCAVATION IS 0.75

** CHANNEL EXCAVATION INCLUDES ALL EXCAVATION REQUIRED FROM BACK TO BACK OF PROPOSED BRIDGE ABUTMENT STATIONS. THE EARTHWORK SCHEDULE ABOVE ASSUMES 50% OF THE CHANNEL EXCAVATION TO BE SUITABLE MATERIAL.



FIELD ENTRANCE PLAN



TYPICAL SECTION THRU ENTRANCE

FIELD ENTRANCE DETAIL STA. 189+15, RT.

design firm no. 184001036 — whks engineers + planners + land surveyors

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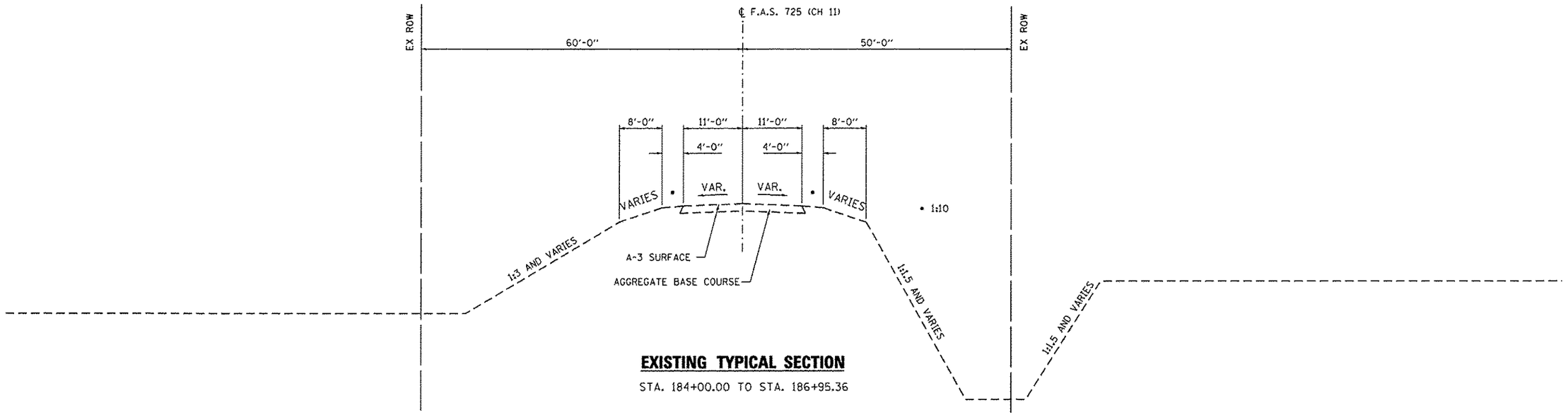
PLOT DATE = 2/13/2015	CHECKED -	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, CONTROL POINT TIES, ENTRANCE DETAILS, AND SCHEDULES
C.H. 11 OVER WEST FORK SHOAL CREEK

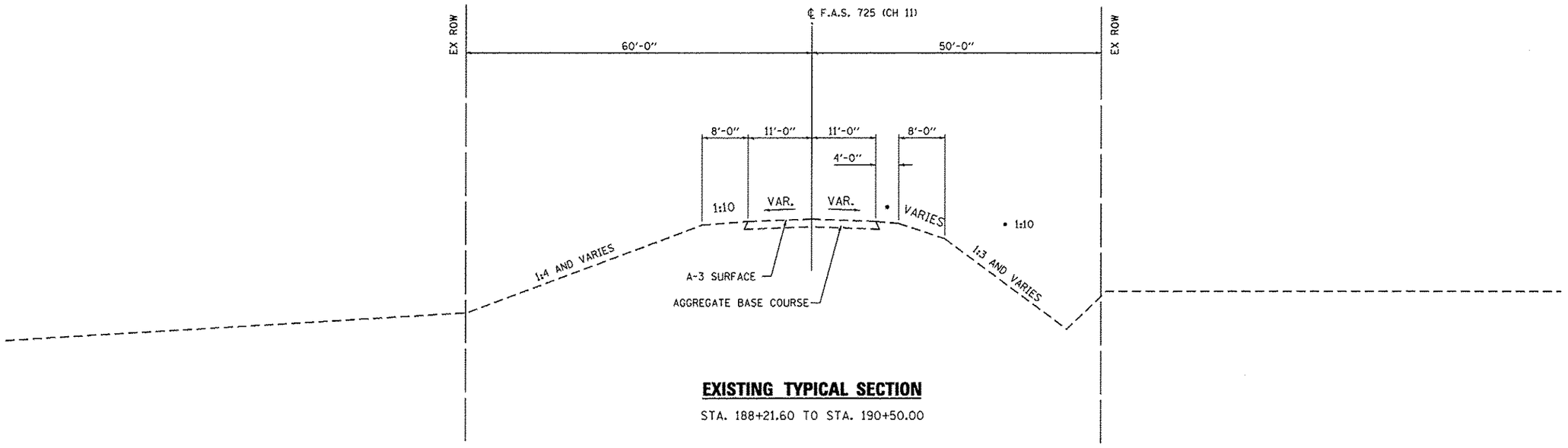
SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	3
		CONTRACT NO. 93632		
ILLINOIS	FED. AID PROJECT			



EXISTING TYPICAL SECTION

STA. 184+00.00 TO STA. 186+95.36



EXISTING TYPICAL SECTION

STA. 188+21.60 TO STA. 190+50.00

design firm no. 184001036 — whks engineers + planners + land surveyors

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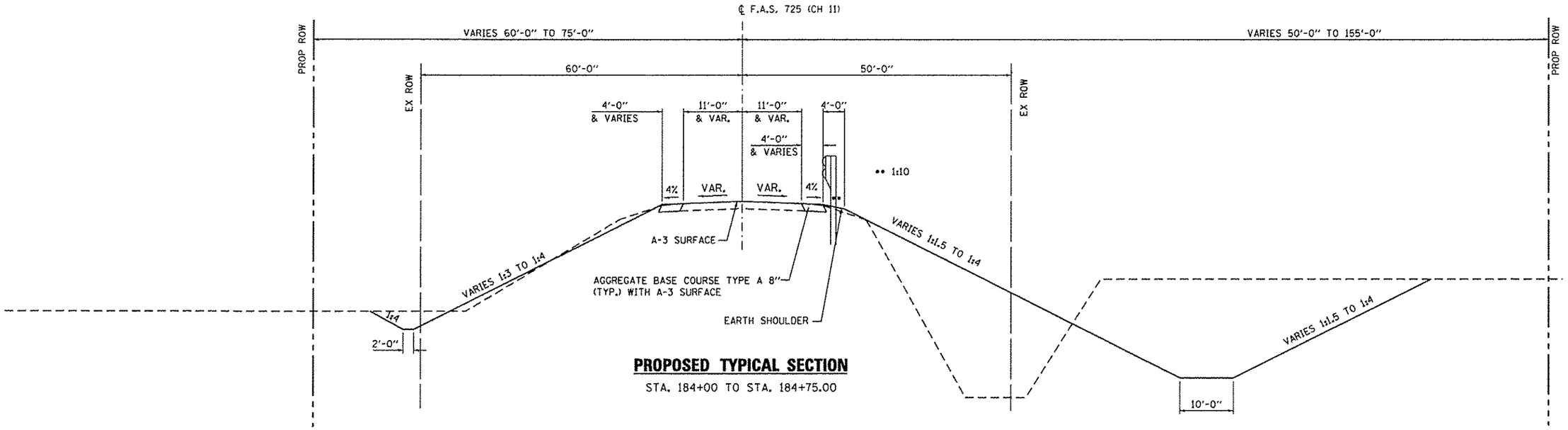
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
C.H. 11 OVER WEST FORK SHOAL CREEK

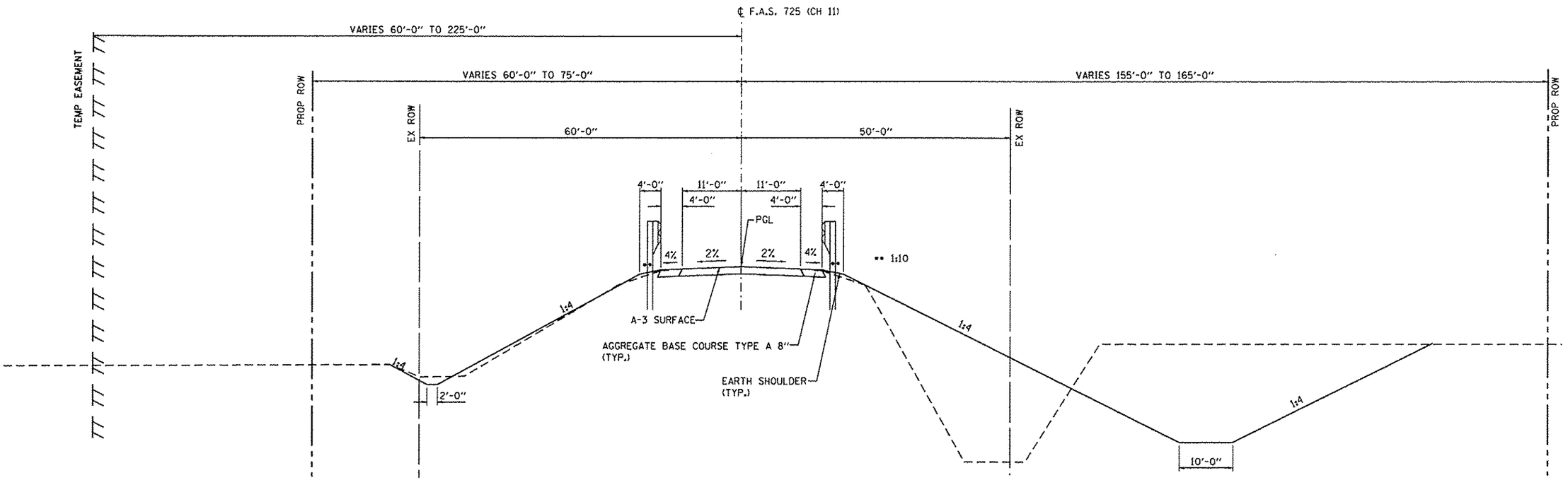
SCALE: 1"=10' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	4
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION

STA. 184+00 TO STA. 184+75.00



PROPOSED TYPICAL SECTION

STA. 184+75.00 TO STA. 186+52.00

BRIDGE OMISSION:

STA. 186+52.00 TO STA. 188+64.00

NOTES:

TRANSITION ROADWAY & SHOULDERS CROSS SLOPE 25 FEET PRIOR TO BRIDGE TO MATCH 1.5% ACROSS BRIDGE.

EXISTING SIDE SLOPES SHALL BE PREPARED IN ACCORDANCE WITH SECTION 205.
IF DEEP PLOWING CANNOT BE ACHIEVED STEPS SHALL BE CUT INTO EXISTING SLOPES.
COST INCLUDE WITH EARTH EXCAVATION.

design firm no. 184001036
whks engineers + planners + land surveyors

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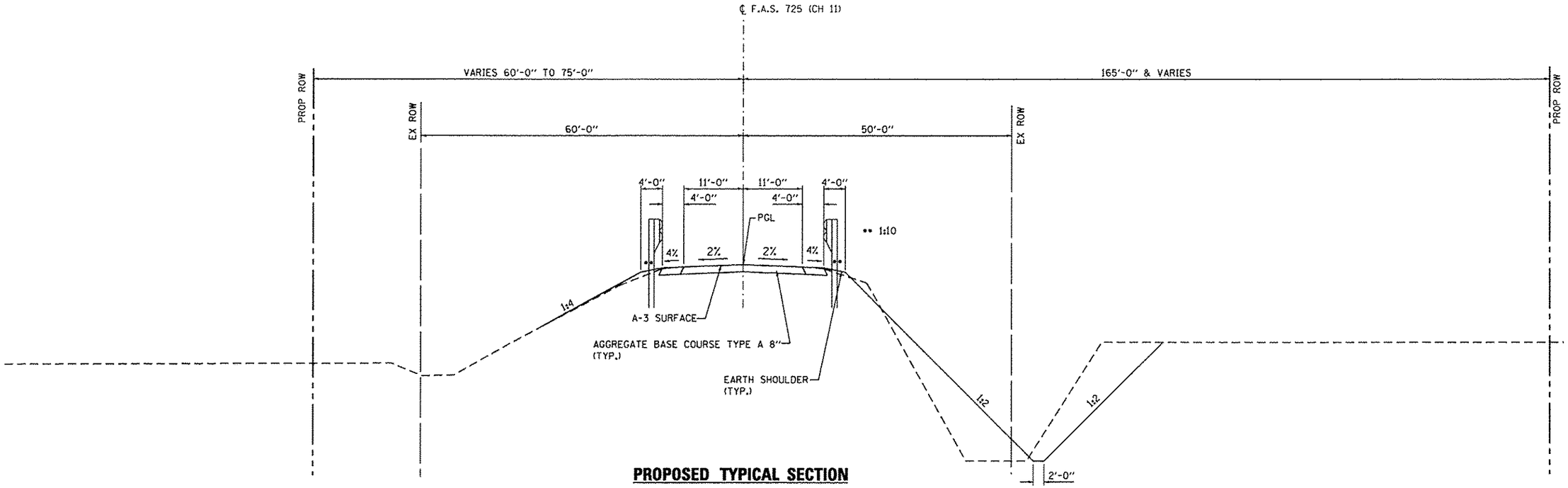
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

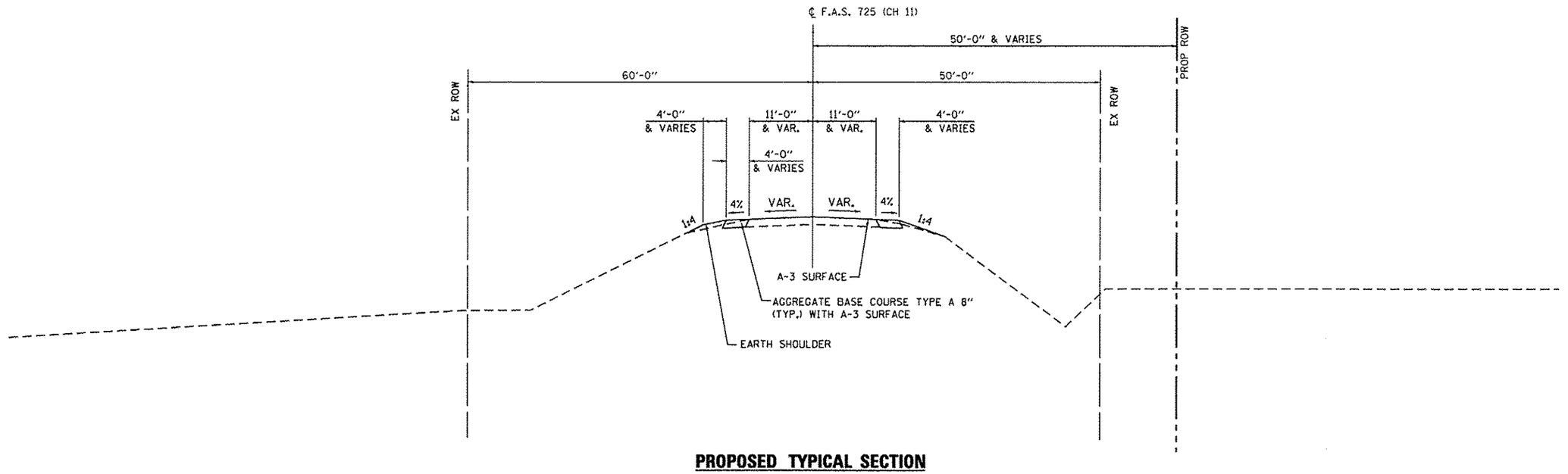
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	5
		CONTRACT NO. 93632		
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

STA. 188+64.00 TO STA. 190+00.00

NOTE: TRANSITION ROADWAY & SHOULDERS CROSS SLOPE 25 FEET PRIOR TO BRIDGE TO MATCH 1.5% ACROSS BRIDGE.



PROPOSED TYPICAL SECTION

STA. 190+00.00 TO STA. 190+50.00

NOTE:

EXISTING SIDE SLOPES SHALL BE PREPARED IN ACCORDANCE WITH SECTION 205. IF DEEP PLOWING CANNOT BE ACHIEVED STEPS SHALL BE CUT INTO EXISTING SLOPES. COST INCLUDE WITH EARTH EXCAVATION.

design firm no. 184001036
whks engineers + planners + land surveyors

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PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	6
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

LEGEND

REL TO BE RELOCATED

TREE REMOVAL, ACRE

PAVEMENT REMOVAL

R.O.W. MARKERS

CURVE CRV3
PI STA. = 181+95.67
Δ = 1° 10' 00" (LT)
D = 0° 11' 00"
R = 31,251.97'
T = 318.19'
L = 636.36'
E = 1.62'
P.C. STA. = 178+77.48
P.T. STA. = 185+13.84

DORA M. ATTEBERY REVOCABLE LIVING TRUST

TEMPORARY EASEMENT

BEGIN PROJECT
SECTION 09-00130-00-BR
STA. 184+00

CONSTRUCTION LIMITS

MATCH EXISTING PAVEMENT

EX. R.O.W.

℄ C.H. 11

BM*7

PROP. R.O.W.

75' TAPER

PI Sta 185+13.84

4" AGG. BASE COURSE, TYPE A 8" (TYP.)

REL BY OTHERS

W. FORK SHOAL CREEK

BM*8

CONTROL POINT "F"

PC Sta 190+17.08

BM*9

MATCH EXISTING PAVEMENT

PI Sta 193+21.64

180+00

190+00

49' SHLDR TAPER

50' TAPER

PI Sta 181+95.67

℄ STRUCTURE
STA. 187+58.00
SN 068-3360

STA. +85.60, 32' RT

+15 FE EARTH

4' EARTH SHOULDER (TYP.)

CONTROL POINT "D"

EXIST. 24" CMP TO REMAIN

TYPE A-3 SURFACE OVER 8" AGG BASE COURSE

PROP. R.O.W.

END PROJECT
SECTION 09-00130-00-BR
STA. 190+50

SEE SHEET NO. 3 FOR CONTROL POINTS TIES

CONSTRUCTION LIMITS

JOSEPH AND MARTHA M. KARLOVIC

ALIGNMENT COORDINATES			
POINT	STATION	N	E
P.C. CRV3	178+77.48	886,086.87	2,462,088.36
P.I. CRV3	181+95.67	886,339.82	2,462,281.39
P.T. CRV3	185+13.84	886,596.65	2,462,469.23
P.C. CRV4	190+17.08	887,002.84	2,462,766.31
P.I. CRV4	193+21.64	887,248.67	2,462,946.11
P.T. CRV4	196+26.18	887,490.94	2,463,130.66
30014	202+81.97	888,012.62	2,463,528.04

DORA M. ATTEBERY REVOCABLE LIVING TRUST

CURVE CRV4
PI STA. = 193+21.64
Δ = 1° 07' 00" (RT)
D = 0° 11' 00"
R = 31,252.75'
T = 304.56'
L = 609.10'
E = 1.48'
P.C. STA. = 190+17.08
P.T. STA. = 196+26.18

① TRAFFIC BARRIER TERMINAL, TYPE 6A
② TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)
③ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
④ TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
⑤ GUARDRAIL REMOVAL
⑥ STONE RIPRAP, CLASS A5

GRAPHIC SCALE
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 50'

BM*7 STA. 184+10. 43' LT.
SPIKE NAIL IN POWER POLE
ELEV. 536.06

BM*8 STA. 187+05. 12' LT.
CHISELED "□" ON BK. OF CURB
ELEV. 543.27

BM*9 STA. 189+73. 36' LT.
SPIKE NAIL IN POWER POLE
ELEV. 537.55

PLAN
SURVEYED
PLOTTED
DRAWN
CHECKED
BAL. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
BAL. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
DATE
BY

SPECIAL DITCH PROFILE LEFT
SPECIAL DITCH PROFILE RIGHT

555 550 545 540 535 530 525 520 515

VPI STA. 184+75.00
ELEVATION 542.65

VPI STA. 186+52.00
ELEVATION 542.85

VPI STA. 188+64.00
ELEVATION 542.85

VPI STA. 190+00.00
ELEVATION 542.50

PROPOSED PROFILE

EXISTING PROFILE

+0.11%

-0.00%

-0.26%

-0.75%

-1.40%

-0.02%

-0.09%

OHW ELEV. 537.25

+00.00 LT
EL. 532.90

+52.00 LT
EL. 531.00

+00.00 RT
EL. 525.20

+01.00 LT
EL. 526.10

+35.00 RT
EL. 520.50

+13.00 RT
EL. 525.00

+9.00 RT
EL. 531.23
(MATCH EXISTING PIPE OUTLET)

543.78 543.65 543.55 543.42 543.30 543.08 542.84 542.70 542.69 542.60 542.69 542.68 542.65 542.73 542.58 542.79 542.79 542.85 542.92 542.85 542.76 542.85 542.80 542.86 542.94 542.85 542.75 542.76 542.67 542.63 542.50 542.50 542.36 542.27 542.19 542.13 541.95 541.82 541.83 541.72 541.59 541.49

180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00

design firm no. 184001036
whks engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -	REVISED	
FILE NAME = PLAN_PROFILE_SHT.dgn	CHECKED -	REVISED	
PLOT SCALE = 100.0000 ' / IN.	DRAWN -	REVISED	
PLOT DATE = 2/13/2015	CHECKED -	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
C.H. 11 OVER WEST FORK SHOAL CREEK
SCALE: 1"=50' | SHEET NO. 1 OF 1 SHEETS | STA. 184+00 TO STA. 190+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	7
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

MATCH LINE STA. 190+00.00

EXIST. R.O.W.

PC Sta 190+17.08

+10

+50

190+00

191

CH 11

+30
50.0'

EXIST. R.O.W.

+09
225.0'

TEMP. EASEMENT

+41
225.0'

WEST FORK SHOAL CREEK

+85
75.0'

+05

+00
75.0'

PROP. R.O.W.

+40 +50 +60 +70 +80 +90 +00

+14
75.0'

EXIST. R.O.W.

+00
60.0'

+85
60.0'

+52
60.0'

+65

PT Sta 185+13.84

184

CH 11

185+00

186

189

CH 11

EXIST. R.O.W.

+50
155.0'

PROP. R.O.W.

+50 +20 +90 +90

+00 +15 +25 +40 +50 +65 +75

PROP. R.O.W.

MATCH LINE STA. 190+00.00

LEGEND

- CONSTRUCTION LIMITS
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER

0 50'

design firm no. 184001036

whks engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -	REVISED	
FILE NAME = GRADING PLAN_SHT.dgn	CHECKED -	REVISED	
PLOT SCALE = 40.0000 ' / IN.	DRAWN -	REVISED	
PLOT DATE = 2/13/2015	CHECKED -	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & GRADING PLAN
CH 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=20' | SHEET NO. 1 OF 1 SHEETS | STA. 184+00 TO STA. 190+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	8
		CONTRACT NO. 93632		
		ILLINOIS	FED. AID PROJECT	

Benchmark: BM #8 Chiseled "□" on back of concrete curb. Sta. 187+05, 12' Lt., Elev. 543.27.

Existing Structure: SN 068-3016 built in 1941 as SA-11 under Section 16-B. The original bridge is a three-span continuous haunched concrete tee beam bridge on timber bent abutments and piers. 127'-0" back to back abutments, 26'-8" out to out superstructure and 27-degree left forward skew. The south pier was replaced with a solid wall concrete pier in 1969 and the north pier was replaced with a steel bent on shallow concrete caissons around 1974. In 1990, steel pile bents were driven in front of the timber bent abutments. Structure to be removed and replaced. Road to be closed and traffic detoured during construction.

No salvage

INDEX OF SHEETS

1. General Plan and Elevation
2.-3. PPC Deck Beam Details
4.-5. Superstructure Details
6. Steel Railing, Type SM with Concrete Wearing Surface
7. Abutments
8. Piers
9. HP Pile Details
10. Bar Splicer Assembly and Mechanical Splicer Details
11.-12. Boring Logs

GENERAL NOTES

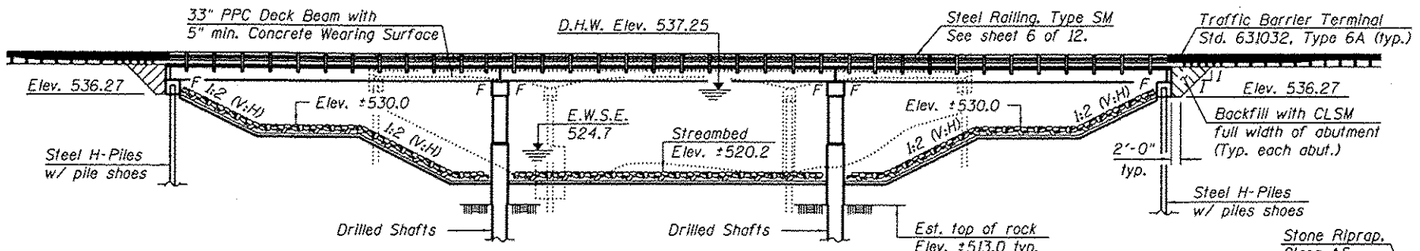
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. Reinforcement bars designated (E) shall be epoxy coated.

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

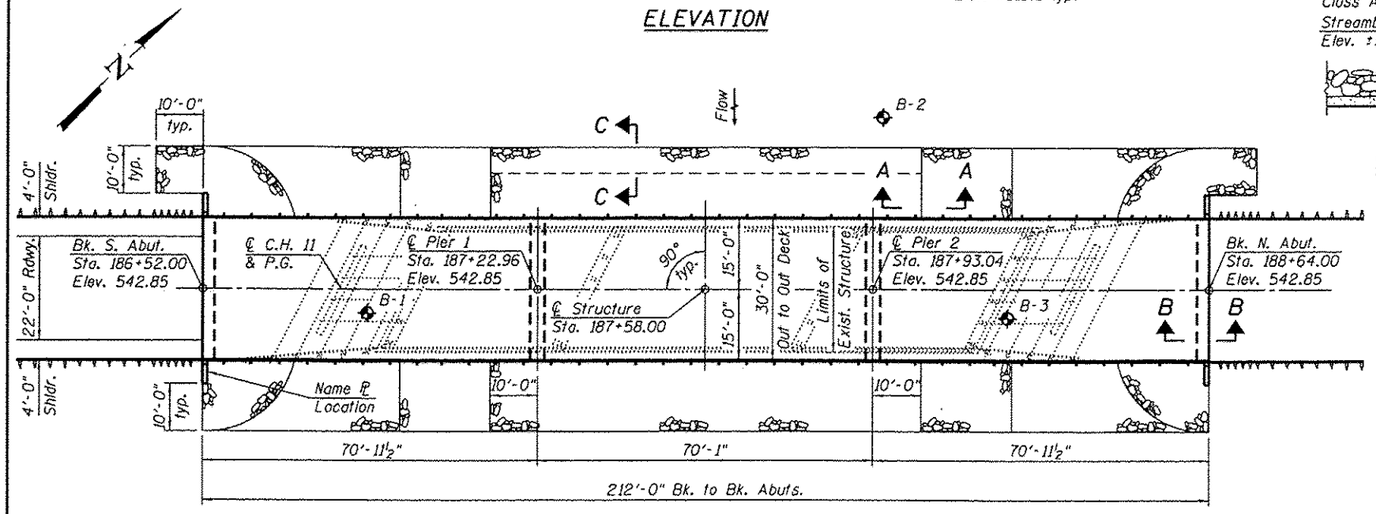
The Channel Excavation quantity shown in the Bill of Material below reflects the excavation required to construct the proposed bridge opening. For complete Channel Excavation quantity which includes additional earthwork between the abutments, see Earthwork Schedule on Sheet 3 of 38.

TOTAL BILL OF MATERIAL

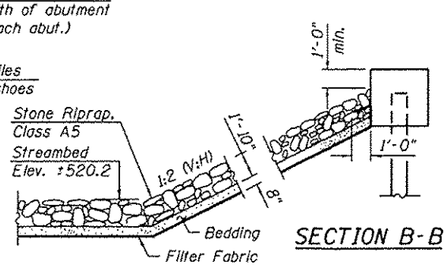
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		2370	2370
Stone Riprap, Class A5	Sq. Yd.		1674	1674
Filter Fabric	Sq. Yd.		1674	1674
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		197	197
Concrete Structures	Cu. Yd.		123.4	123.4
Bridge Deck Grooving	Sq. Yd.	654		654
Protective Coat	Sq. Yd.	701		701
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	6300		6300
Reinforcement Bars	Pound		6800	6800
Reinforcement Bars, Epoxy Coated	Pound	8910	32710	41620
Bar Splicers	Each		264	264
Mechanical Splicers	Each		96	96
Steel Railing, Type SM	Foot	424		424
Furnishing Steel Piles HP 14x73	Foot		280	280
Driving Piles	Foot		280	280
Test Pile Steel HP 14x73	Each		1	1
Pile Shoes	Each		12	12
Name Plates	Each		1	1
Permanent Casing	Foot		102	102
Drilled Shaft in Soil	Cu. Yd.		37.1	37.1
Drilled Shaft in Rock	Cu. Yd.		41.9	41.9
Controlled Low-Strength Material	Cu. Yd.		65.7	65.7
Concrete Wearing Surface, 5"	Sq. Yd.	701		701



ELEVATION

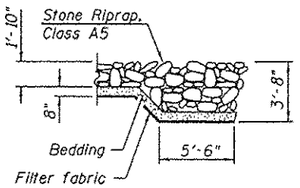


PLAN

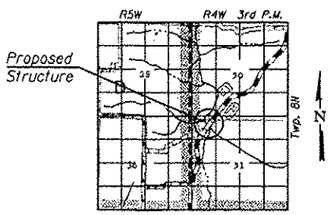


SECTION B-B

SECTION A-A



SECTION C-C



PROPOSED PROFILE GRADE

(Along ℄ C.H. 11)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	536.27	510.54	510.54	536.27

WATERWAY INFORMATION

Drainage Area = 153.36 sq. mi.

Exist. Low Grade Elev. 540.63 at Sta. 200+50.51
Prop. Low Grade Elev. 540.63 at Sta. 200+50.51

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	20	12200	978	2341	537.25	4.06	1.84	541.31	539.09
Base	100	18200	1046	2492	538.01	7.12	3.74	545.13	541.75
Exist. Overtopping	15	11150	963	-	537.09	3.57	-	540.66	-
Prop. Overtopping	50	15700	-	2434	537.72	-	2.91	-	540.63

LOADING HL-93

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

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (½" ϕ low-lax strands)
f'si = 201,960 psi (½" ϕ low-lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.147g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.347g
Soil Site Class = C

WEST FORK SHOAL CREEK
BUILT 20 BY
MONTGOMERY COUNTY
SEC. 09-00130-00-BR
F.A.S. RT. 725 STA. 187+58
STR. NO. 068-3360 LOADING HL93

NAME PLATE

See Std. 515001

LOCATION SKETCH

LICENSED STRUCTURAL ENGINEER
TYLER J. ZIEGLER
081-007505
STATE OF ILLINOIS
2/11/15
Expires: 11/30/2016

GENERAL PLAN

C.H. 11 OVER WEST FORK SHOAL CREEK
F.A.S. RTE. 725 - SEC. 09-00130-00-BR
MONTGOMERY COUNTY
STATION 187+58.00
STRUCTURE NO. 068-3360

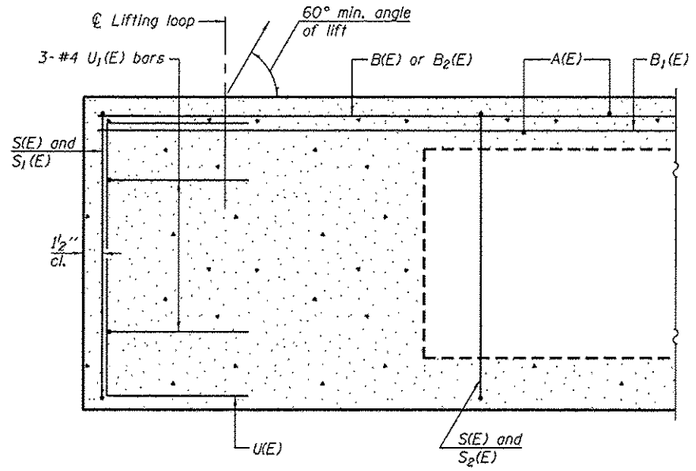
design firm no. 184001036 — whks engineers + planners + land surveyors

USER NAME = ⊕OPERATOR⊕	DESIGNED - TJZ	REVISED	
FILE NAME = 068-3360.dgn	CHECKED - CWC	REVISED	
PLOT SCALE = 0.2 '/ in.	DRAWN - DLH	REVISED	
PLOT DATE = 2/11/2015	CHECKED - CWC	REVISED	

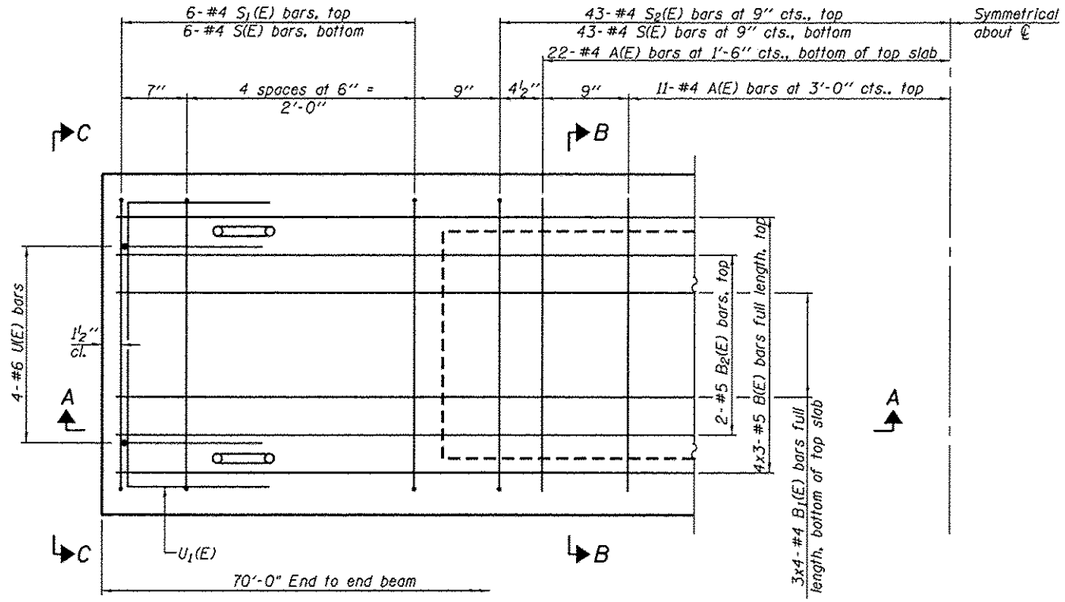
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	9
		CONTRACT NO. 93632		
		ILLINOIS FED. AID PROJECT		

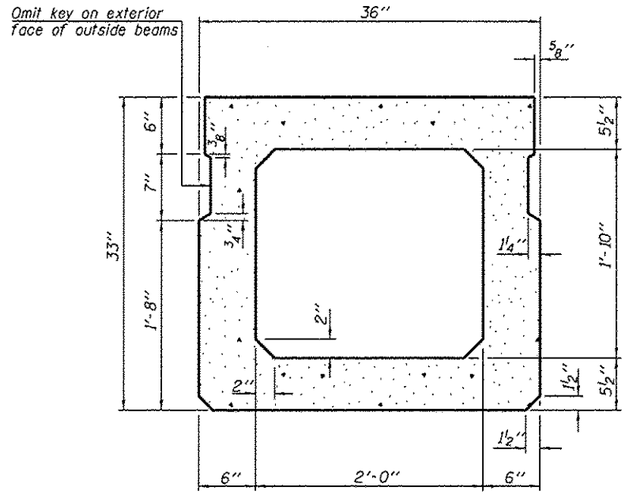


SECTION A-A

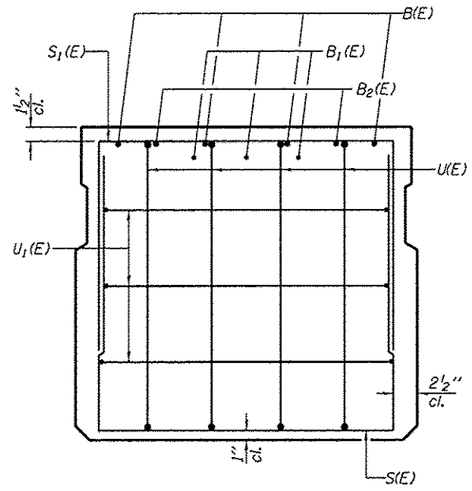


PLAN VIEW

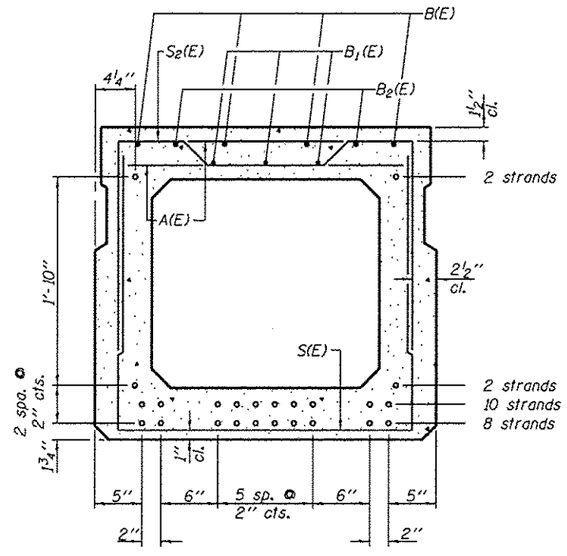
Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the black outs for the transverse ties.



SECTION B-B
(Showing dimensions)



VIEW C-C



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	66	#4	2'-7"	—
B(E)	12	#5	24'-11"	—
$B_1(E)$	12	#4	19'-0"	—
$B_2(E)$	4	#5	10'-0"	—
S(E)	98	#4	7'-5"	⊔
$S_1(E)$	12	#4	6'-3"	⊓
$S_2(E)$	86	#4	6'-6"	⊓
U(E)	8	#6	5'-0"	⊔
$U_1(E)$	6	#4	5'-0"	⊓

Note: See sheet 3 of 12 for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 2'-0"
#5 bar = 2'-6"

PD-3336-0 7-1-10

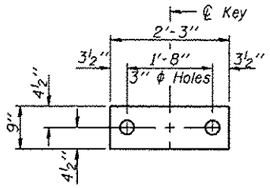
design firm no. 184001036 whks engineers + planners + land surveyors

USER NAME = #OPERATOR#	DESIGNED - TJZ	REVISED	
FILE NAME = 068-3360.dgn	CHECKED - CWC	REVISED	
PLOT SCALE = 0.2 '/ in.	DRAWN - DLH	REVISED	
PLOT DATE = 2/13/2015	CHECKED - CWC	REVISED	

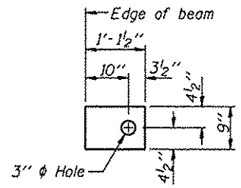
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC DECK BEAM DETAILS
STRUCTURE NO. 068-3360
SHEET NO. 2 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	10
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			



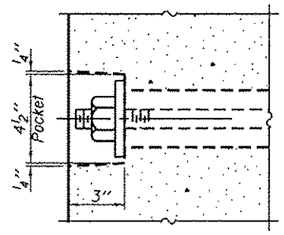
FABRIC BEARING PAD
(Interior)



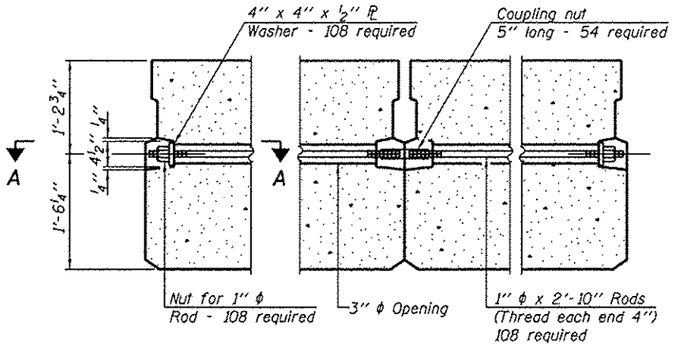
FABRIC BEARING PAD
(Exterior)

FIXED

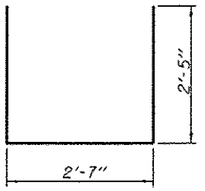
Note:
All bearing pads shall be 1" thick.



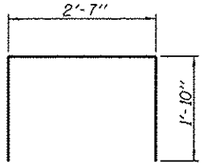
SECTION A-A



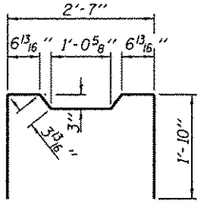
TYPICAL TRANSVERSE TIE ASSEMBLY



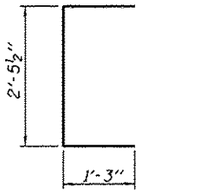
BAR S(E)



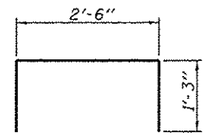
BAR S_1(E)



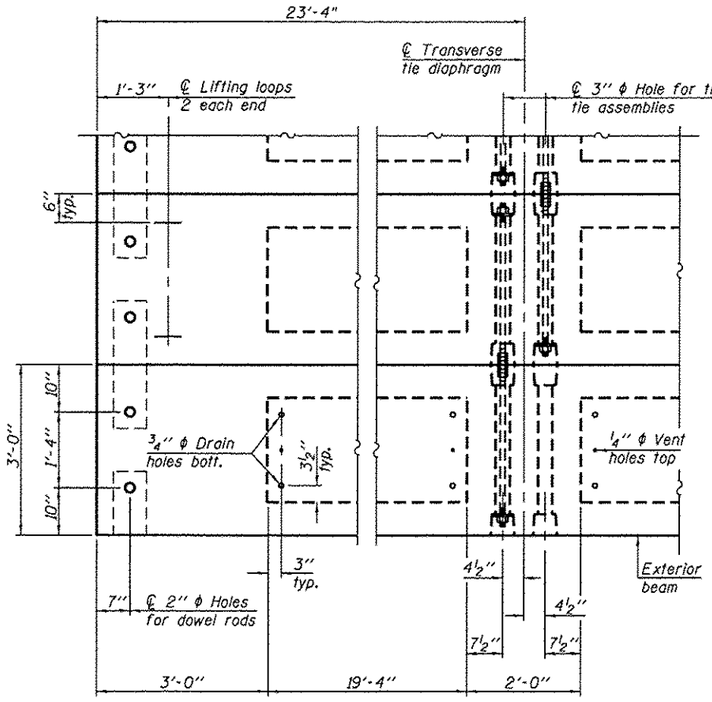
BAR S_2(E)



BAR U(E)

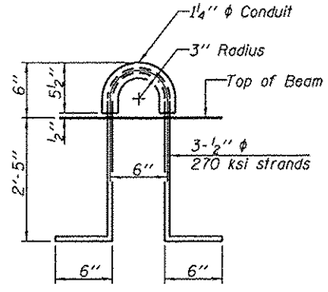


BAR U_1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	6300

PD-3336-00 7-1-10

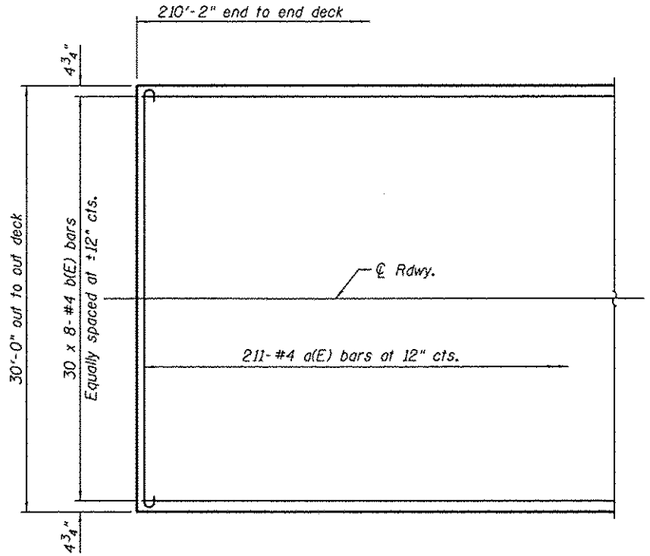
design firm no. 184001036 whks engineers + planners + land surveyors

USER NAME = #OPERATOR#	DESIGNED - TJZ	REVISED	
FILE NAME = 068-3368.dgn	CHECKED - CWC	REVISED	
PLOT SCALE = 8\12 '\' / in.	DRAWN - DLH	REVISED	
PLOT DATE = 2/13/2015	CHECKED - CWC	REVISED	

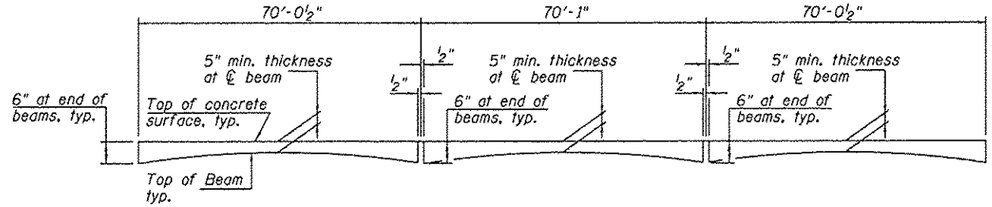
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC DECK BEAM DETAILS
STRUCTURE NO. 068-3360
SHEET NO. 3 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	11
		CONTRACT NO. 93632		
		ILLINOIS FED. AID PROJECT		

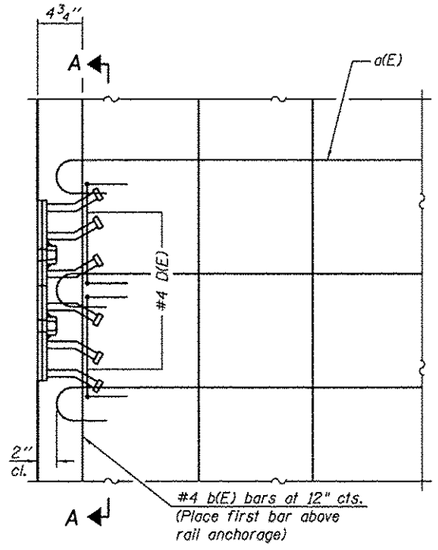


PLAN - REINFORCED CONCRETE WEARING SURFACE

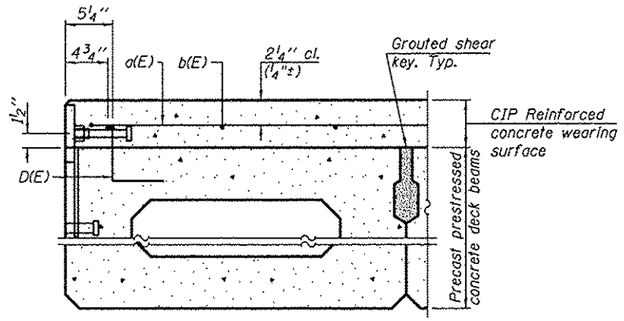


ANTICIPATED CONCRETE WEARING SURFACE PROFILE

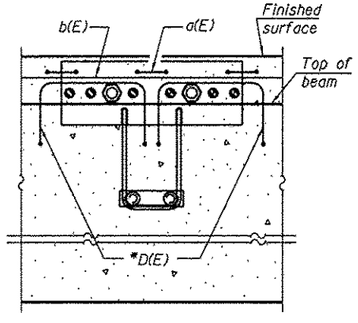
(For information only)



PLAN



SECTION THRU FASCIA BEAM



SECTION A-A

Notes:

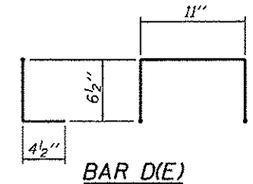
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.

The rail anchorage and bar D(E) shall be cast with the beam and the wearing surface shall be cast in the field.

Drilling into the beam will not be permitted.

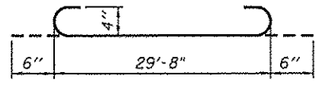
MIN. BAR LAP

#4 bars = 2'-7"



BAR D(E)

* Place 2-#4 D(E) bars in beam at each post location as shown. Cost of D(E) bars included with Precast Prestressed Concrete Deck Beams (33' Depth).



BAR a(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	211	#4	30'-8"	
b(E)	240	#4	28'-7"	
Reinforcement Bars, Epoxy Coated			Pound	8910
Concrete Wearing Surface, 5"			Sq. Yd.	701

Bars indicated thus 30 x 8 -#4 etc. indicates 30 lines of bars with 8 lengths per line.

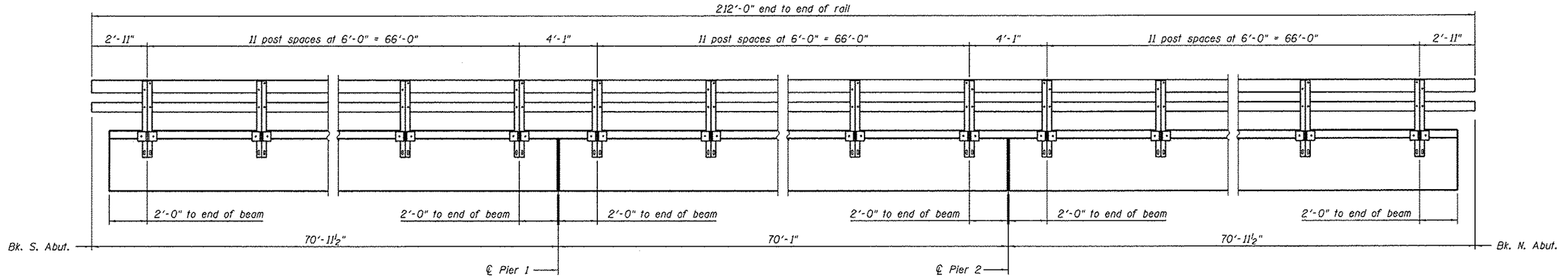
design firm no. 184001038 whks engineers + planners + land surveyors

USER NAME = $OPERATOR$	DESIGNED - TJZ	REVISED	
FILE NAME = 068-3360.dgn	CHECKED - CWC	REVISED	
PLOT SCALE = 0.2 '/ in.	DRAWN - DLH	REVISED	
PLOT DATE = 2/13/2015	CHECKED - CWC	REVISED	

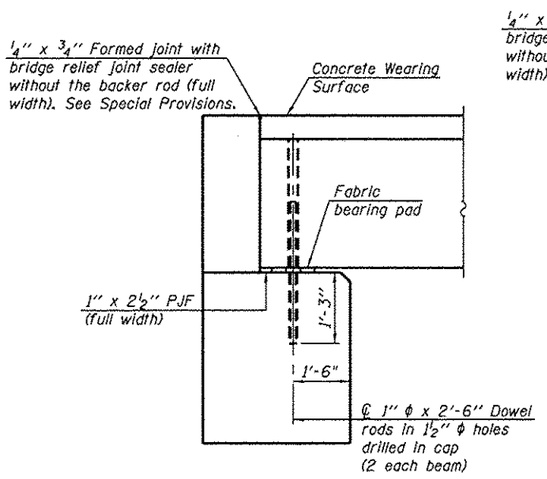
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 068-3360
SHEET NO. 4 OF 12 SHEETS

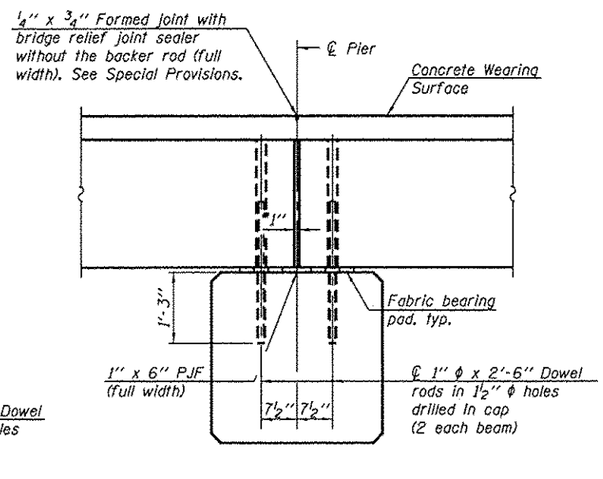
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	12
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			



RAIL POST SPACING

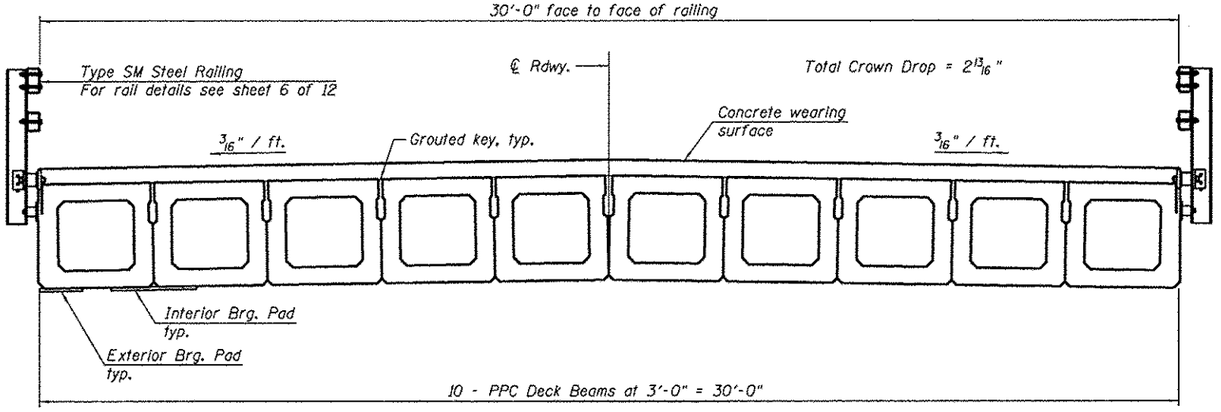


SECTION THRU ABUTMENTS



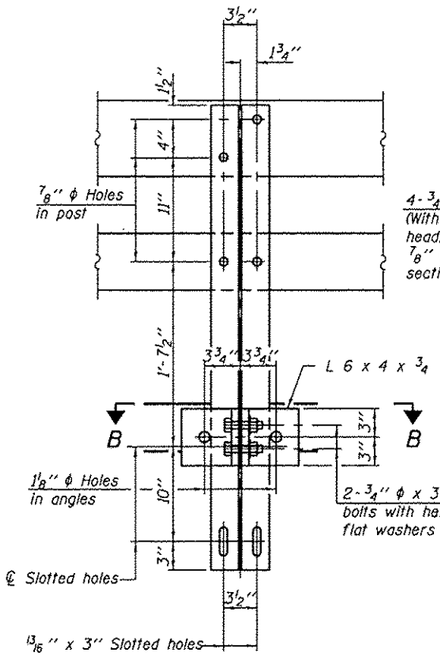
SECTION THRU PIERS

* 1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

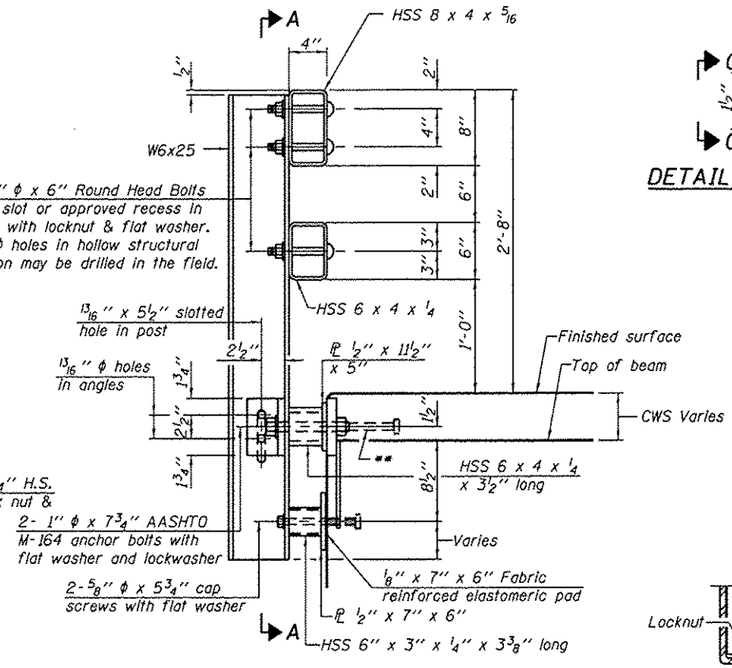


CROSS SECTION

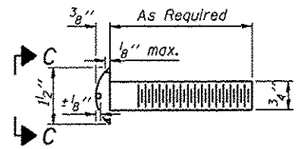
(Reinforcement in concrete wearing surface not shown for clarity.)



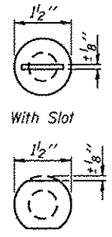
SECTION A-A



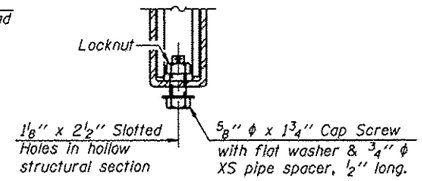
SECTION AT RAIL POST



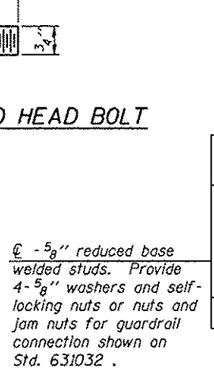
DETAIL OF ¾" ϕ ROUND HEAD BOLT



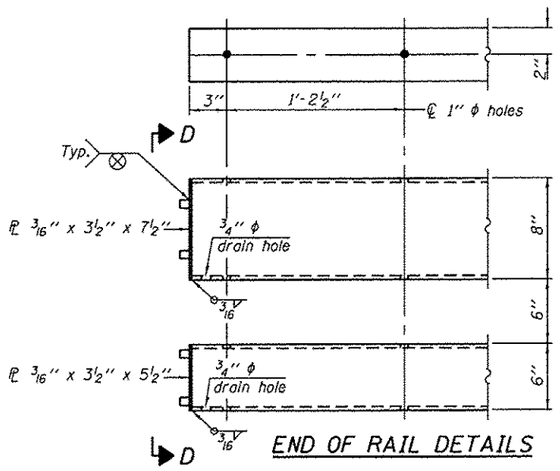
VIEW C-C



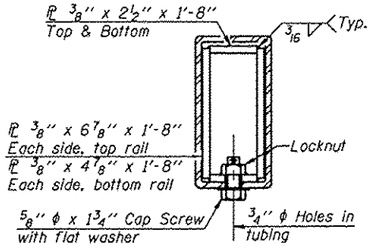
RAIL SPLICE CONNECTION AT EXPANSION JT.



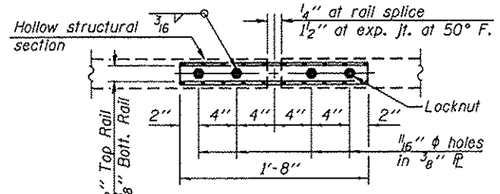
VIEW D-D



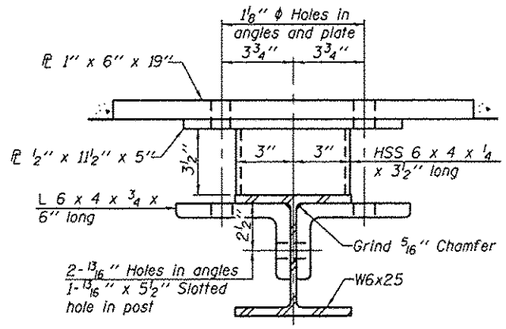
END OF RAIL DETAILS



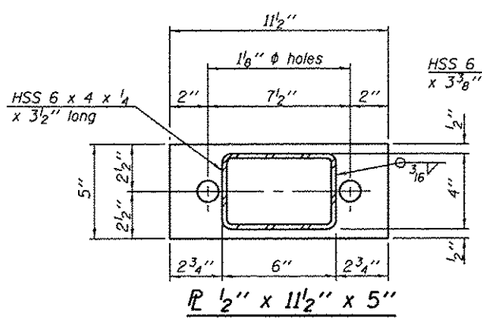
SECTION AT RAIL SPLICE



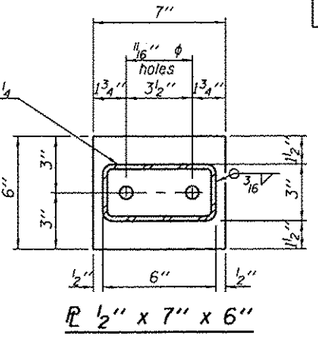
PLAN-BOTT. SPLICE ℗ TYPICAL



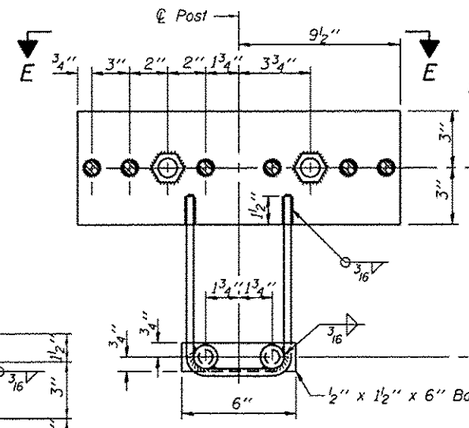
SECTION B-B



℗ ½" x 11½" x 5"

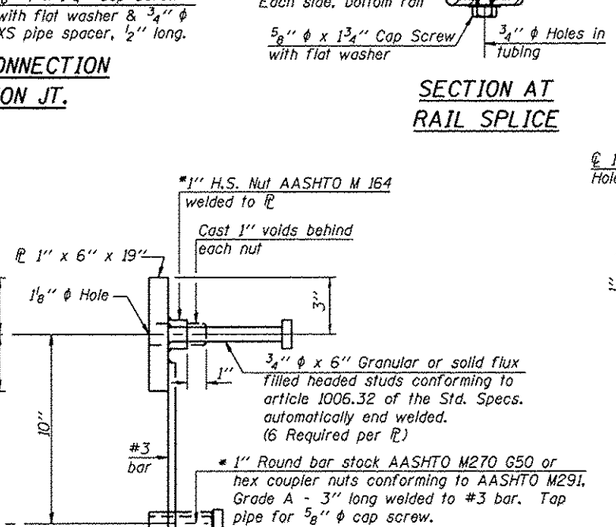


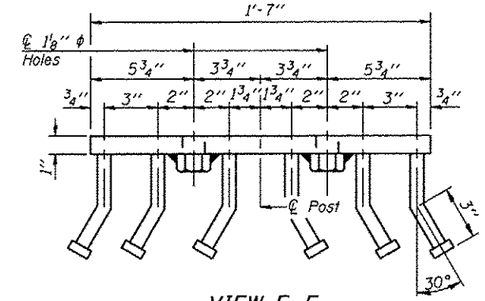
℗ ½" x 7" x 6"



ANCHOR DEVICE

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





VIEW E-E

Notes:

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

For multi-span bridges, sufficient ¼" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	424

R-34CWS 7-1-10

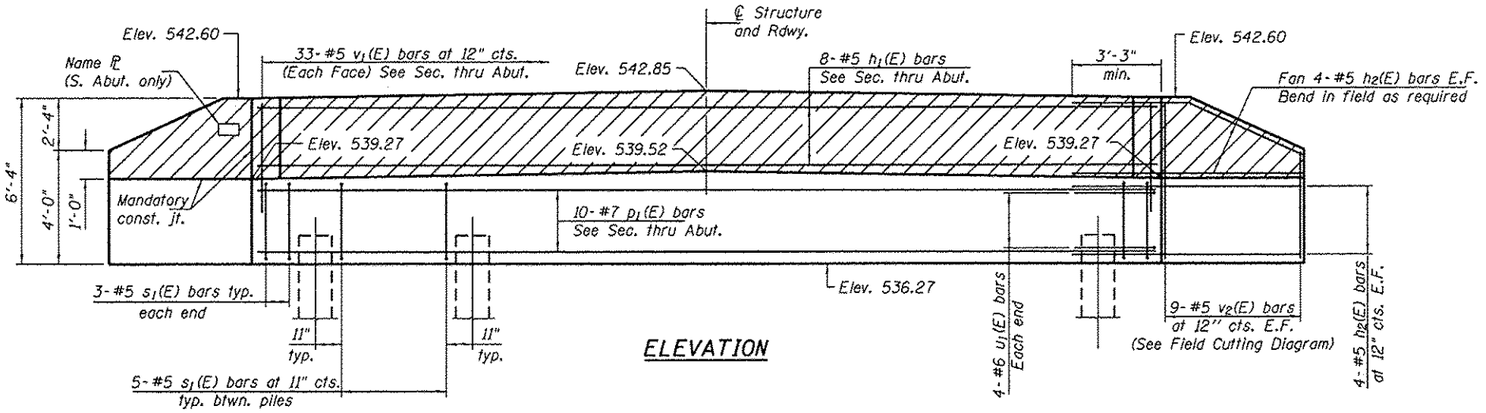
design firm no. 184001036 whks engineers • planners • land surveyors

USER NAME = *OPERATOR*	DESIGNED - TJZ	REVISED	
FILE NAME = 068-3368.dgn	CHECKED - CWC	REVISED	
PLOT SCALE = 8:2 '1' / in.	DRAWN - DLH	REVISED	
PLOT DATE = 2/13/2015	CHECKED - CWC	REVISED	

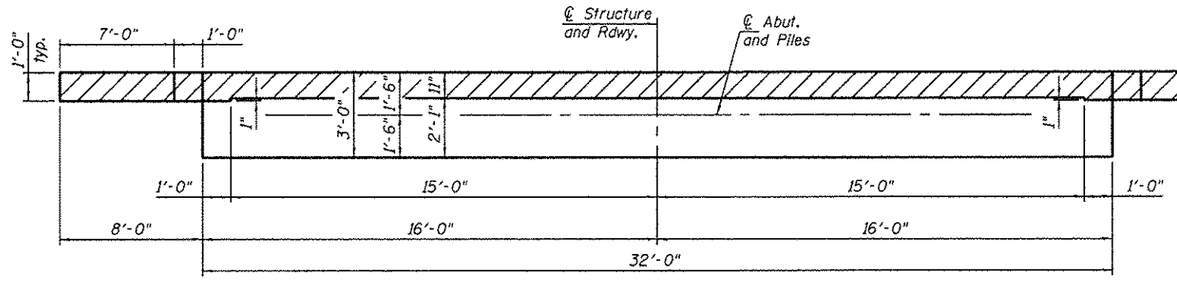
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE
STRUCTURE NO. 068-3360
SHEET NO. 6 OF 12 SHEETS

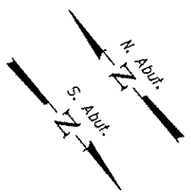
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	14
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

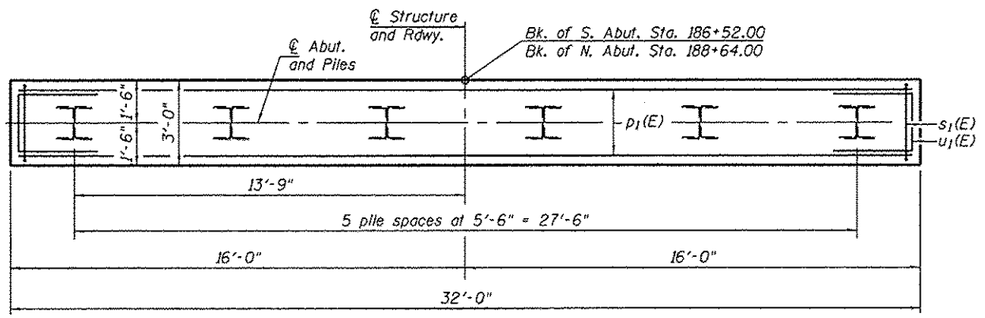


ELEVATION

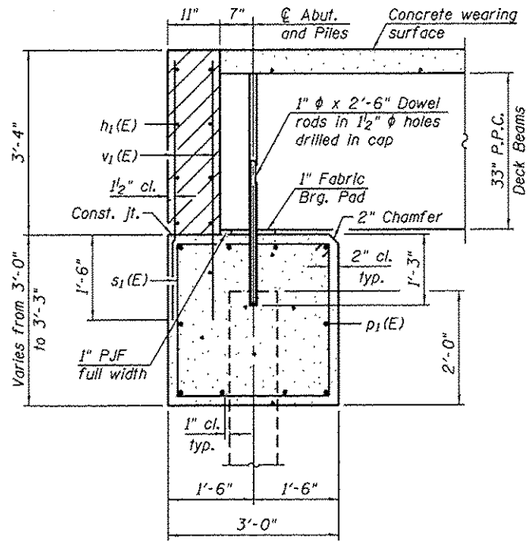


TOP VIEW

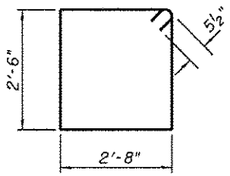




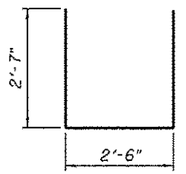
PLAN



SECTION THRU ABUTMENT



BAR s_1(E)



BAR u_1(E)

BILL OF MATERIAL
TWO ABUTMENTS

Bar	No.	Size	Length	Shape
h_1(E)	16	#5	31'-8"	
h_2(E)	64	#5	11'-8"	
p_1(E)	20	#7	31'-8"	
s_1(E)	62	#5	11'-3"	
u_1(E)	16	#6	7'-8"	
v_1(E)	132	#5	4'-7"	
v_2(E)	36	#5	9'-8"	
Structure Excavation		Cu. Yd.	182	
Concrete Structures		Cu. Yd.	35.8	
Reinforcement Bars, Epoxy Coated		Pound	4510	
Furnishing Steel Piles, HP 14x73		Foot	280	
Driving Piles		Foot	280	
Test Pile Steel HP 14x73		Each	1	
Piles Shoes		Each	12	

PILE DATA - S. ABUT.

Type: Steel HP 14x73 w/ Pile shoes
Nominal Required Bearing: 318 kips
Factored Resistance Available: 175 kips
Est. Length: 25 ft.
No. Production Piles: 6
No. Test Piles: 0

PILE DATA - N. ABUT.

Type: Steel HP 14x73 w/ Pile shoes
Nominal Required Bearing: 295 kips
Factored Resistance Available: 162 kips
Est. Length: 26 ft.
No. Production Piles: 5
No. Test Piles: 1

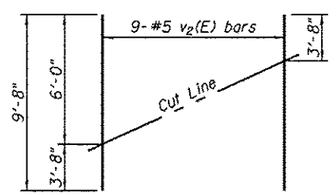
Notes:

The hatched area shall be poured after the beams and concrete wearing surface are in place. The backwall shall be cast against the beams and concrete wearing surface. Cast top of wingwall flush with exterior beam face after beams have been erected.

Dowel rods to be grouted after beams are in place and allowed to cure (Min. 24 hrs.) prior to grouting the shear keys. Cost shall be included in the cost of Precast Prestressed Concrete Deck Beams (33" Depth).

For details of piles, see sheet 9 of 12.

If pile interferes with dowel embedment, reduce dowel embedment so dowel is at the top of the pile (min. embedment = 1'-0").



FIELD CUTTING DIAGRAM

Order v_2(E) bars full length. Cut as shown and use remainder of bars in opposite face.

design firm no. 184001036
whks engineers • planners • land surveyors

USER NAME = $OPERATOR$	DESIGNED - TJZ	REVISED
FILE NAME = 068-3360.dgn	CHECKED - CWC	REVISED
PLOT SCALE = 0.2 '/ in.	DRAWN - DLH	REVISED
PLOT DATE = 2/13/2015	CHECKED - CWC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENTS
STRUCTURE NO. 068-3360
SHEET NO. 7 OF 12 SHEETS

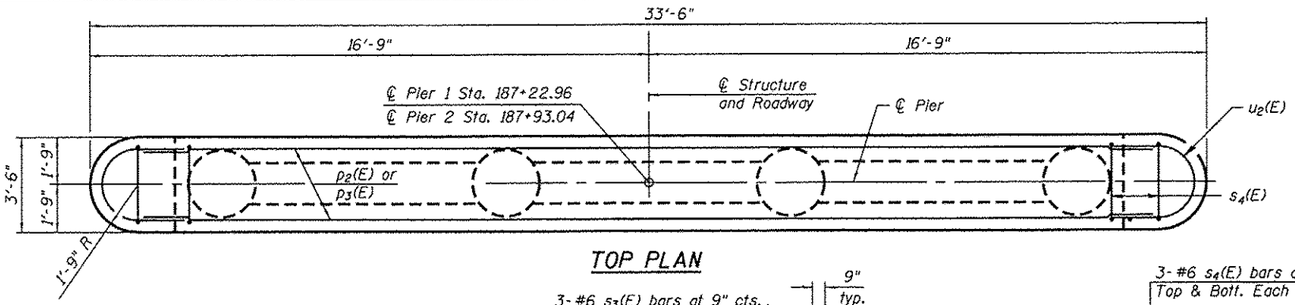
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	15
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

Notes:

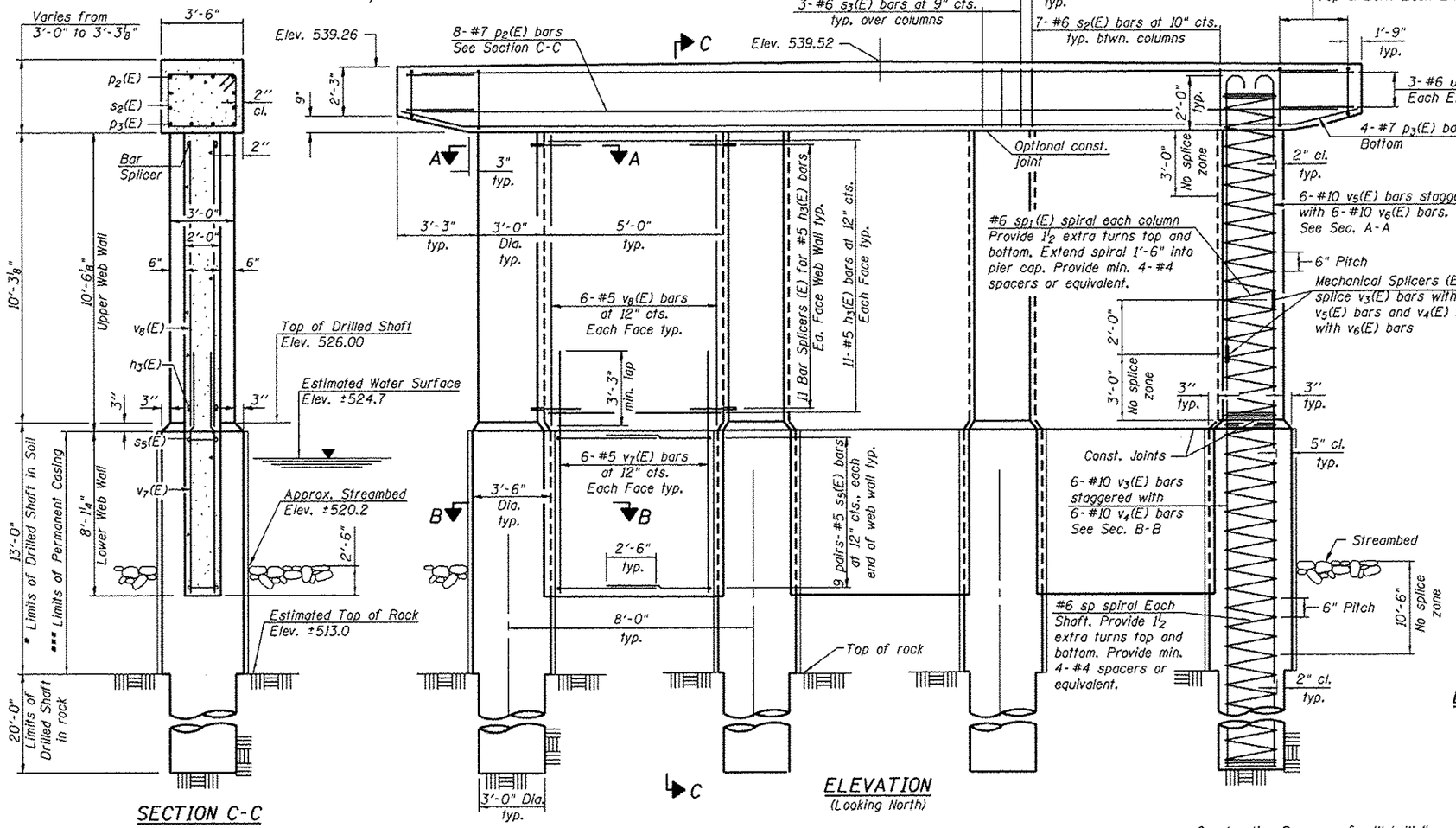
When splicing of spiral reinforcement is necessary, the spirals shall be provided with $1\frac{1}{2}$ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook.

Shafts must be poured the same day as the rock socket excavation.

Dowel rods to be grouted after beams are in place and allowed to cure (Min. 24 hrs.) prior to grouting the shear keys. Cost shall be included in the cost of Precast Prestressed Concrete Deck Beams (33" Depth).

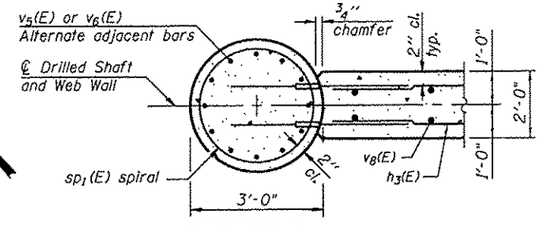


TOP PLAN

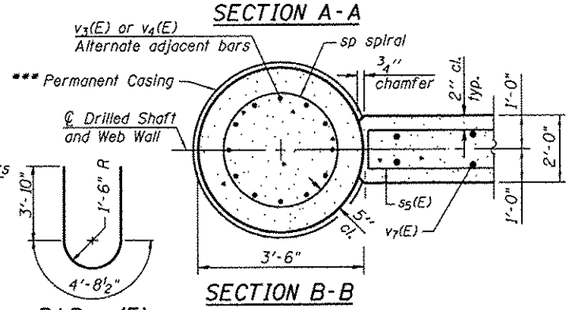


SECTION C-C

ELEVATION (Looking North)

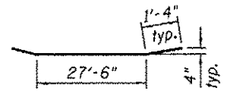


SECTION A-A

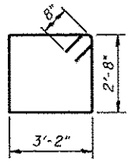


SECTION B-B

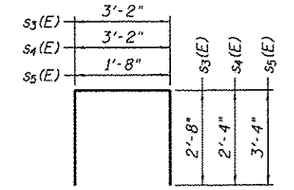
BAR $u_2(E)$



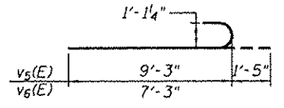
BAR $p_3(E)$



BAR $s_2(E)$



BARS $s_3(E)$, $s_4(E)$ & $s_5(E)$



BARS $v_5(E)$ & $v_6(E)$

BILL OF MATERIAL
TWO PIERS

Bar	No.	Size	Length	Shape
$h_3(E)$	132	#5	4'-8"	
$p_2(E)$	16	#7	30'-0"	
$p_3(E)$	8	#7	30'-2"	
$s_2(E)$	42	#6	13'-0"	
$s_3(E)$	24	#6	8'-6"	
$s_4(E)$	24	#6	7'-10"	
$s_5(E)$	108	#5	8'-4"	
** sp	8	#6	33'-0"	
** $sp_1(E)$	8	#6	11'-9"	
$u_2(E)$	12	#6	12'-5"	
$v_3(E)$	48	#10	36'-0"	
$v_4(E)$	48	#10	38'-0"	
$v_5(E)$	48	#10	10'-8"	
$v_6(E)$	48	#10	8'-8"	
$v_7(E)$	72	#5	11'-5"	
$v_8(E)$	72	#5	9'-11"	
Structure Excavation		Cu. Yd.	15	
Concrete Structures		Cu. Yd.	87.6	
Reinforcement Bars		Pound	6800	
Reinforcement Bars, Epoxy Coated		Pound	28200	
Bar Splicers		Each	264	
Mechanical Splicers		Each	96	
Permanent Casing		Foot	102	
Drilled Shaft in Soil		Cu. Yd.	37.1	
Drilled Shaft in Rock		Cu. Yd.	41.9	

** Length is height of spiral. Minimum lap for spirals = 3'-0".

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

*** The Contractor is responsible for determining the casing thickness and the actual bottom of casing elevation, top of encountered rock, to be used at each drilled shaft. See Article 516.06(d) of the Standard Specifications. The Estimated Top of Rock/Bottom of Permanent Casing Elevation is shown. The limits of casing shall be adjusted as necessary, and as approved, such that the actual installed casing length extends to the as-encountered top of rock at each shaft. If the appearance of the Permanent Casing above the actual water surface is undesirable, this portion may be removed as directed by the Engineer after completion of the shaft construction. Any removal directed by the Engineer will be paid for according to Article 109.04 of the Standard Specifications.

Construction Sequence for Web Wall:

1. Excavate between shafts to elevation of web wall base and set lower web wall forms through water to bear on the circular edge of drilled shafts. Secure in place with fill, struts or tie forms together as required. Lower web wall forms shall not be removed until after upper web wall is constructed and has achieved adequate compressive strength.
2. Place the lower web wall reinforcement cage into the forms using spacers to maintain proper clearances.
3. If the forms can be sealed against the shafts and streambed to allow dewatering, the reinforcement and the concrete placement may be completed in the dry. Alternatively, the rebar cage can be lowered into position through water and the concrete discharged at the base of the excavation through a tremie pipe or pump hose, displacing water, sediment, and tainted concrete out the top of the forms. Concrete shall be tremied according to Article 503.08 of The Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
4. Construct Columns.
5. Construct upper web walls.

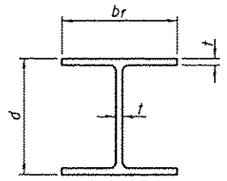
design firm no. 184001036
whks engineers • planners • land surveyors

USER NAME = @OPERATOR@	DESIGNED - TJZ	REVISED	
FILE NAME = 068-3360.dgn	CHECKED - CWC	REVISED	
PLOT SCALE = 0.2 '/ in.	DRAWN - DLH	REVISED	
PLOT DATE = 2/13/2015	CHECKED - CWC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

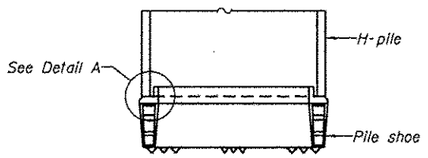
PIERS
STRUCTURE NO. 068-3360
SHEET NO. 8 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	16
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

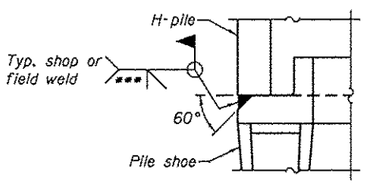


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	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"	11/16"	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"

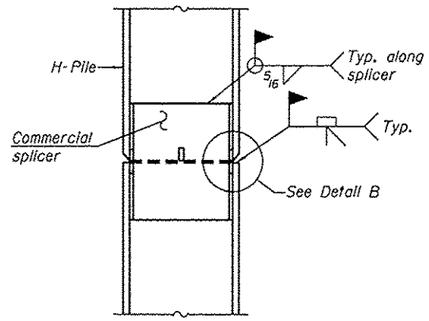


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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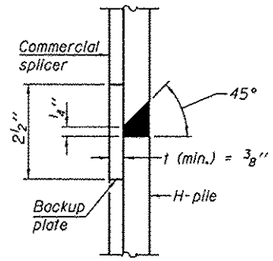
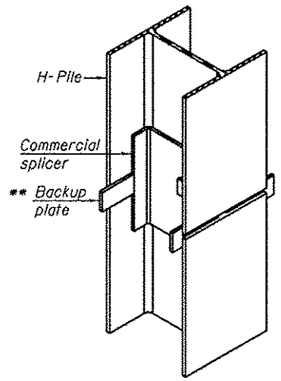
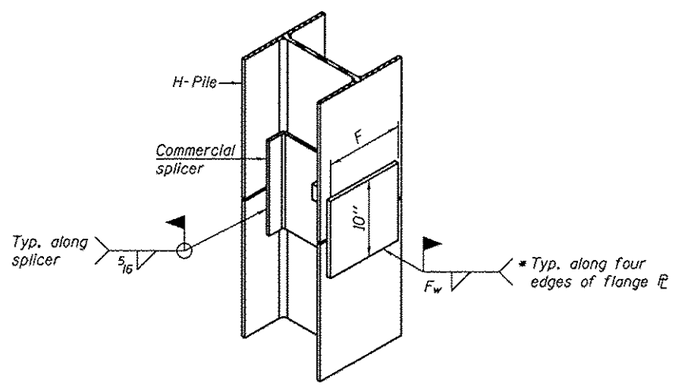


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



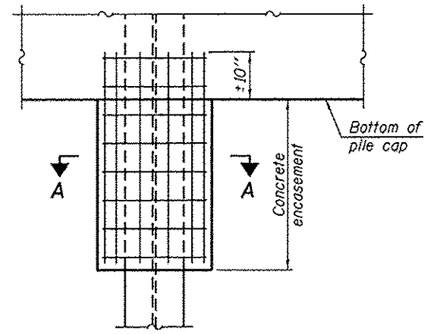
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

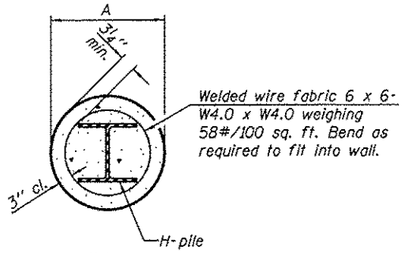
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



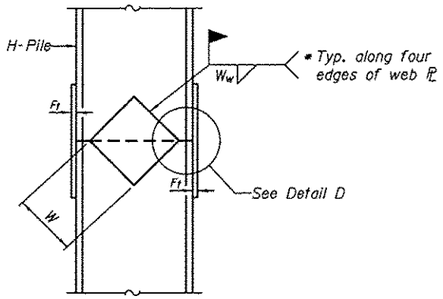
ELEVATION



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

SECTION A-A

PILE ENCASEMENT



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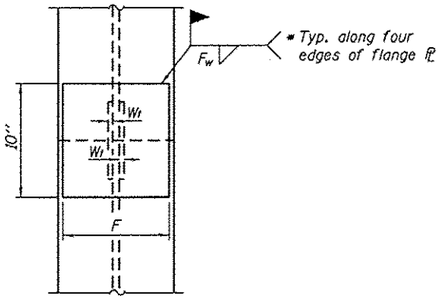
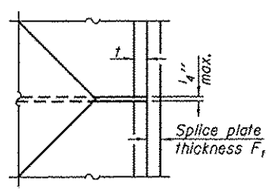


END VIEW



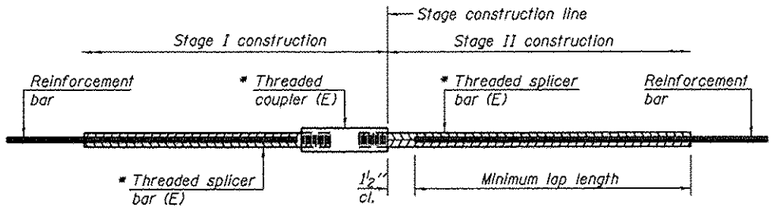
DETAIL D

Designation	F	F_t	F_w	W	W_f	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"	11/16"	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"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	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"

WELDED PLATE FIELD SPLICE

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

F-HP 1-27-12



STANDARD BAR SPLICER ASSEMBLY

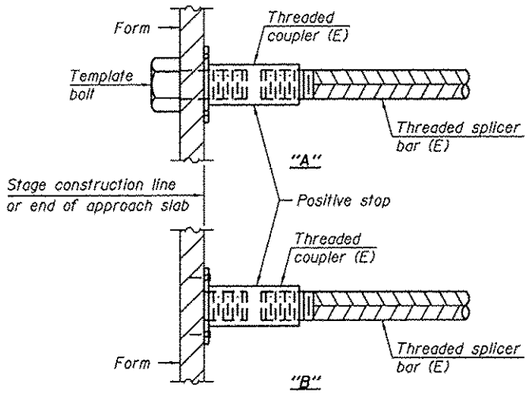
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Class C
Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1½" + thread length

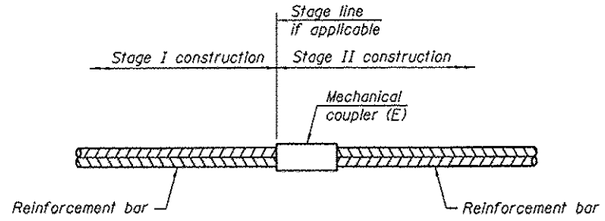
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Pier Web Walls	#5	264	Table 3



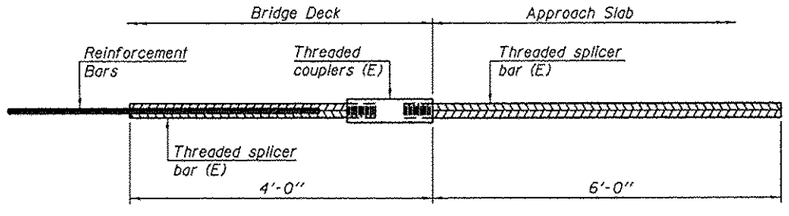
INSTALLATION AND SETTING METHODS

"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.



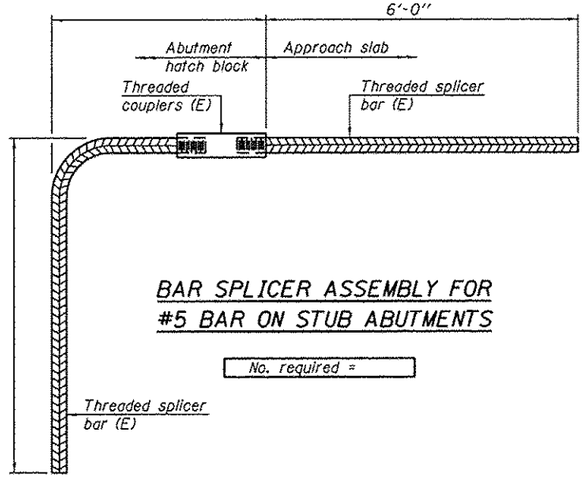
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier Columns	#10	96



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

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

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.

BSD-1 1-27-12

Design firm no. 184001036 whks engineers + planners + land surveyors

USER NAME = *OPERATOR*	DESIGNED - TJZ	REVISED	
FILE NAME = 068-3360.dgn	CHECKED - CWC	REVISED	
PLOT SCALE = 8.2 '/ in.	DRAWN - DLH	REVISED	
PLOT DATE = 2/13/2015	CHECKED - CWC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 068-3360
SHEET NO. 10 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	18
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

SKS ENGINEERS, INC.
2900 N. MARTIN LUTHER KING JR. DRIVE
DECATUR, ILLINOIS 62526

SOIL BORING LOG

Date 01/19/2010

ROUTE ____ DESCRIPTION SKS No. 911907 Bridge Borings - Bridge over West Fork Shoal Creek LOGGED BY T. Mathias/AL/CK/EK

SECTION 09-00130-00BR LOCATION Montgomery County SEC. ____ TWP. 8B RNG. 4W PM

COUNTY Montgomery DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety Hammer

STRUCT. NO. 068-3016
Station ____

BORING NO. B-1
Station 186+86
Offset 5.0' LT
Ground Surface Elev. 542.8 ft

Surface Water Elev. 84.0 ft
Stream Bed Elev. 79.3 ft

Groundwater Elev.:
First Encounter 83.8 ft
Upon Completion 85.3 ft
After Hrs ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8" Asphalt 12" Crushed Limestone				
SAND - Brown, moist, loose-med, tr gravel A-1-b		7 5 5		4.3
	-5	4 2 3		6
	7.0			
SILTY CLAY LOAM - Brown, moist, firm, low plasticity, tr sand, tr gravel A-6		3 3 4		18
	-10	3 4 5	0.5	25
	12.5	4		
SILTY CLAY LOAM - Gray, moist, stiff, low plasticity, tr sand, tr gravel A-6		4 5		27
	-15	3 5		28
SAND - Gray, moist, med dense, med-coarse, tr gravel A-1-b	17.0	8		
SANDY CLAY LOAM - Gray, moist, stiff, low plasticity, tr gravel A-4		3 5 6	0.8	19
	19.5			
SANDY CLAY LOAM - (cont)	-20	3		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SCL - Reddish Brown, moist, stiff, low plasticity, tr gravel A-4		4 5	0.3	21
	22.0			
SAND - Gray, saturated, med dense, fine-med, tr gravel, wood A-1-b		10 8 7		23
	-25	3 6 8		24
	26.5			
SHALE - Gray, moist, hard, weathered, mica		60+		12
Depth N = Blows 27.5 ft. 60N = 5" 30.0 ft. 60N = 5" 32.5 ft. 60N = 3" 35.0 ft. 60N = 3" 37.5 ft. 60N = 3" 40.0 ft. 60N = 4"	-30	60+		12
	-35	60+		12
	-40	60+		12

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 137 (3/01)

SKS ENGINEERS, INC.
2900 N. MARTIN LUTHER KING JR. DRIVE
DECATUR, ILLINOIS 62526

SOIL BORING LOG

Date 01/19/2010

ROUTE ____ DESCRIPTION SKS No. 911907 Bridge Borings - Bridge over West Fork Shoal Creek LOGGED BY T. Mathias/AL/CK/EK

SECTION 09-00130-00BR LOCATION Montgomery County SEC. ____ TWP. 8B RNG. 4W PM

COUNTY Montgomery DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety Hammer

STRUCT. NO. 068-3016
Station ____

BORING NO. B-1
Station 186+86
Offset 5.0' LT
Ground Surface Elev. 542.8 ft

Surface Water Elev. 84.0 ft
Stream Bed Elev. 79.3 ft

Groundwater Elev.:
First Encounter 83.8 ft
Upon Completion 85.3 ft
After Hrs ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SHALE - Gray	41.0			11
END OF BORING @ 41.0 FT. BORING BACKFILLED WITH SPOIL AND CAPPED WITH CONCRETE CYLINDER UPON COMPLETION				

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	-5			
	-10			
	-15			
	-20			
	-25			
	-30			
	-35			
	-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 137 (3/01)

SKS ENGINEERS, INC.
2900 N. MARTIN LUTHER KING JR. DRIVE
DECATUR, ILLINOIS 62526

SOIL BORING LOG

Date 01/19/2010

ROUTE ____ DESCRIPTION SKS No. 911907 Bridge Borings - Bridge over West Fork Shoal Creek LOGGED BY T. Mathias/AL/CK/EK

SECTION 09-00130-00BR LOCATION Montgomery County SEC. ____ TWP. 8B RNG. 4W PM

COUNTY Montgomery DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety Hammer

STRUCT. NO. 068-3016
Station ____

BORING NO. B-2
Station 187+95
Offset 38.0' LT
Ground Surface Elev. 528.2 ft

Surface Water Elev. 84.0 ft
Stream Bed Elev. 79.3 ft

Groundwater Elev.:
First Encounter 80.7 ft
Upon Completion 81.0 ft
After Hrs ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY SILTY CLAY LOAM - Dark Brown, very moist, low plasticity, tr sand, organics A-6		1 1 2	0.7	25
	4.6			
SAND - Brown, moist, loose, fine-med, tr gravel A-1-b	-5	2 3 3		11
	7.0			
SILTY SAND - Gray, moist, loose, fine-medium A-2-4		1 2 2		23
	9.5			
SILTY CLAY LOAM - Dark Gray, very moist, very soft, low plasticity, tr sand, tr gravel, organics A-6	-10	WH WH WH		48
	12.0			
SANDY CLAY LOAM - Dark Gray, very moist, firm, low plasticity, tr gravel A-4		7 8 5		16
	14.5			
SANDY CLAY LOAM - Mottled Gray-Brown, moist, stiff, low plasticity, tr gravel, shale A-4	-15 16.0	7 9 5		15
SHALE - Gray, moist, hard, weathered, mica		60+		15
	19.5			
SANDY CLAY LOAM - (cont)	-20	60+		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SCL - Reddish Brown, moist, stiff, low plasticity, tr gravel A-4	21.0			17
END OF BORING @ 21.0 FT. BORING BACKFILLED WITH SPOIL AND CAPPED WITH CONCRETE CYLINDER UPON COMPLETION				
Depth N = Blows 17.5 ft. 60N = 5" 20.0 ft. 60N = 5"	-25 -30 -35 -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 137 (3/01)

SKS ENGINEERS, INC.
2900 N. MARTIN LUTHER KING JR. DRIVE
DECATUR, ILLINOIS 62526

SOIL BORING LOG

Date 01/19/2010

ROUTE _____ DESCRIPTION SKS No. 911907 Bridge Borings - Bridge over West Fork Shoal Creek LOGGED BY T. Mathias/AL/CK/EK

SECTION 09-00130-00BR LOCATION Montgomery County SEC. ___ TWP. 8B RNG. 4W PM

COUNTY Montgomery DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety Hammer

STRUCT. NO. 068-3016
Station ___

BORING NO. B-3
Station 188+22
Offset 6.0' RT
Ground Surface Elev. 542.8 ft

Surface Water Elev. 84.0 ft
Stream Bed Elev. 79.3 ft

Groundwater Elev.:
First Encounter 84.3 ft
Upon Completion 83.0 ft
After ___ Hrs ___ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8" Asphalt				
12" Crushed Limestone				
SANDY CLAY LOAM - Mottled Gray-Brown, moist, very stiff, low plasticity, tr gravel A-6		8		
		8		16
		9		
	4.5			
SILTY CLAY LOAM - Gray, moist, firm, low plasticity, tr sand, tr gravel A-6	-5	2		
		2		19
		3		
	7.0			
SILTY CLAY LOAM - Brown, moist, soft, low plasticity, tr sand, tr gravel A-6		1		
		2	0.5	20
		3		
	-10	1		
		2	0.4	21
		3		
		2		
		2	0.3	19
		3		
	-15	2		
	15.5	2		28
SILT LOAM - Dark Gray, moist, firm, low plasticity, tr sand A-4		3		
	17.5	1		
SANDY CLAY LOAM - Dark Gray, moist, soft, low plasticity, tr gravel A-6		1		26
		2		
	-20	2		
	22.0			
SAND - Gray, saturated, med dense, fine-med. tr gravel, wood A-1-b		2		
		4		24
		7		
	26.0	-25		
ORGANIC SILT - Dark Brown, moist, stiff A-8	26.0	3		
		5		24
		8		
SAND - Gray, saturated, very dense, fine-coarse, tr gravel A-1-b		60+		24
	28.0			
SHALE - Gray, moist, hard, weathered, mica				
		-30		
Depth N = Blows		60+		16
27.5 ft. 60N = 5"				
30.0 ft. 60N = 3"				
32.5 ft. 60N = 4"				
35.0 ft. 60N = 4"		60+		8
37.5 ft. 60N = 5"				
40.0 ft. 60N = 4"				
		-35		
		60+		15
		60+		12
		-40		
		60+		

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 137 (3/01)

SKS ENGINEERS, INC.
2900 N. MARTIN LUTHER KING JR. DRIVE
DECATUR, ILLINOIS 62526

SOIL BORING LOG

Date 01/19/2010

ROUTE _____ DESCRIPTION SKS No. 911907 Bridge Borings - Bridge over West Fork Shoal Creek LOGGED BY T. Mathias/AL/CK/CK

SECTION 09-00130-00BR LOCATION Montgomery County SEC. ___ TWP. 8B RNG. 4W PM

COUNTY Montgomery DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety Hammer

STRUCT. NO. 068-3016
Station ___

BORING NO. B-3
Station 188+22
Offset 6.0' RT
Ground Surface Elev. 542.8 ft

Surface Water Elev. 84.0 ft
Stream Bed Elev. 79.3 ft

Groundwater Elev.:
First Encounter 84.3 ft
Upon Completion 83.0 ft
After ___ Hrs ___ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SHALE - Gray	41.0			11
END OF BORING @ 41.0 FT. BORING BACKFILLED WITH SPOIL AND CAPPED WITH CONCRETE CYLINDER UPON COMPLETION				
		-5		
		-10		
		-15		
		-20		

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 137 (3/01)

design firm no. 184001036 whks engineers + planners + land surveyors	USER NAME = $OPERATOR$	DESIGNED - TJZ	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS STRUCTURE NO. 068-3360
	FILE NAME = 068-3360.dgn	CHECKED - CWC	REVISED		
	PLOT SCALE = 0.2 '/ in.	DRAWN - DLH	REVISED		SHEET NO. 12 OF 12 SHEETS
	PLOT DATE = 2/13/2015	CHECKED - CWC	REVISED		

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	20
		CONTRACT NO. 93632		
		ILLINOIS FED. AID PROJECT		

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

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

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

540
535
530
525

PR. ROW
EX. ROW
S.D. 502.90

BEGIN PROJECT
STA. 184+00.00
C = 4 F = 0 (AHEAD)
C = 0 F = 0 (BACK)

C = 4 F = 0

EX. ROW
PR. ROW
S.D. 525.20

184+00.00

183+75.00

183+50.00

design firm no. 184001036	USER NAME = gjameson	DESIGNED -	REVISED
whks engineers + planners + land surveyors	FILE NAME = X-SECTION.ch11.SHT.dgn	CHECKED -	REVISED
	PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
	PLOT DATE = 2/13/2010	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

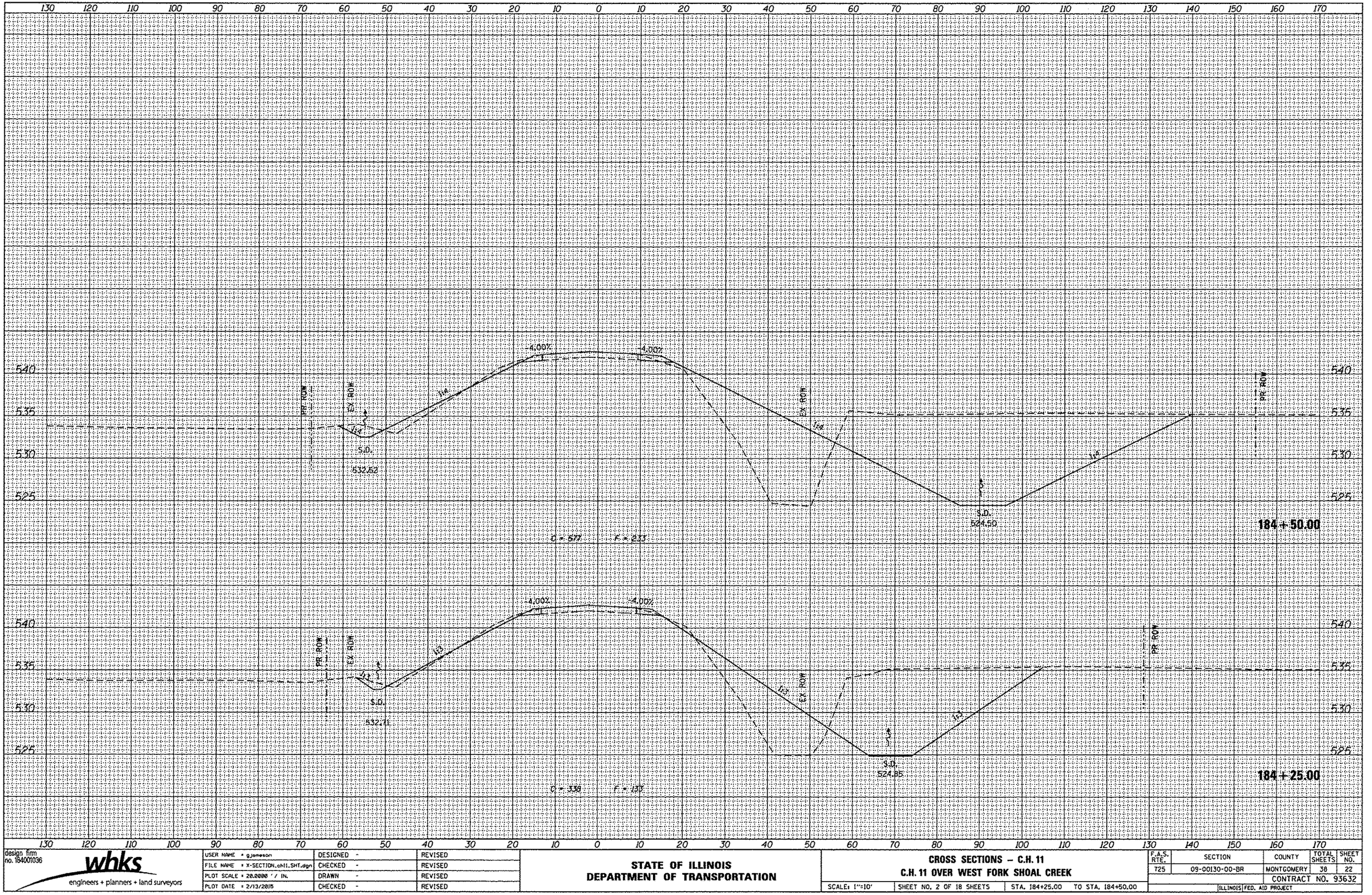
CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 1 OF 18 SHEETS | STA. 183+50.00 TO STA. 184+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	21
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

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

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



design firm no. 184001036	USER NAME = gjameson	DESIGNED -	REVISED
whks engineers + planners + land surveyors	FILE NAME = X-SECTION_cH11.SHT.dgn	CHECKED -	REVISED
	PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
	PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

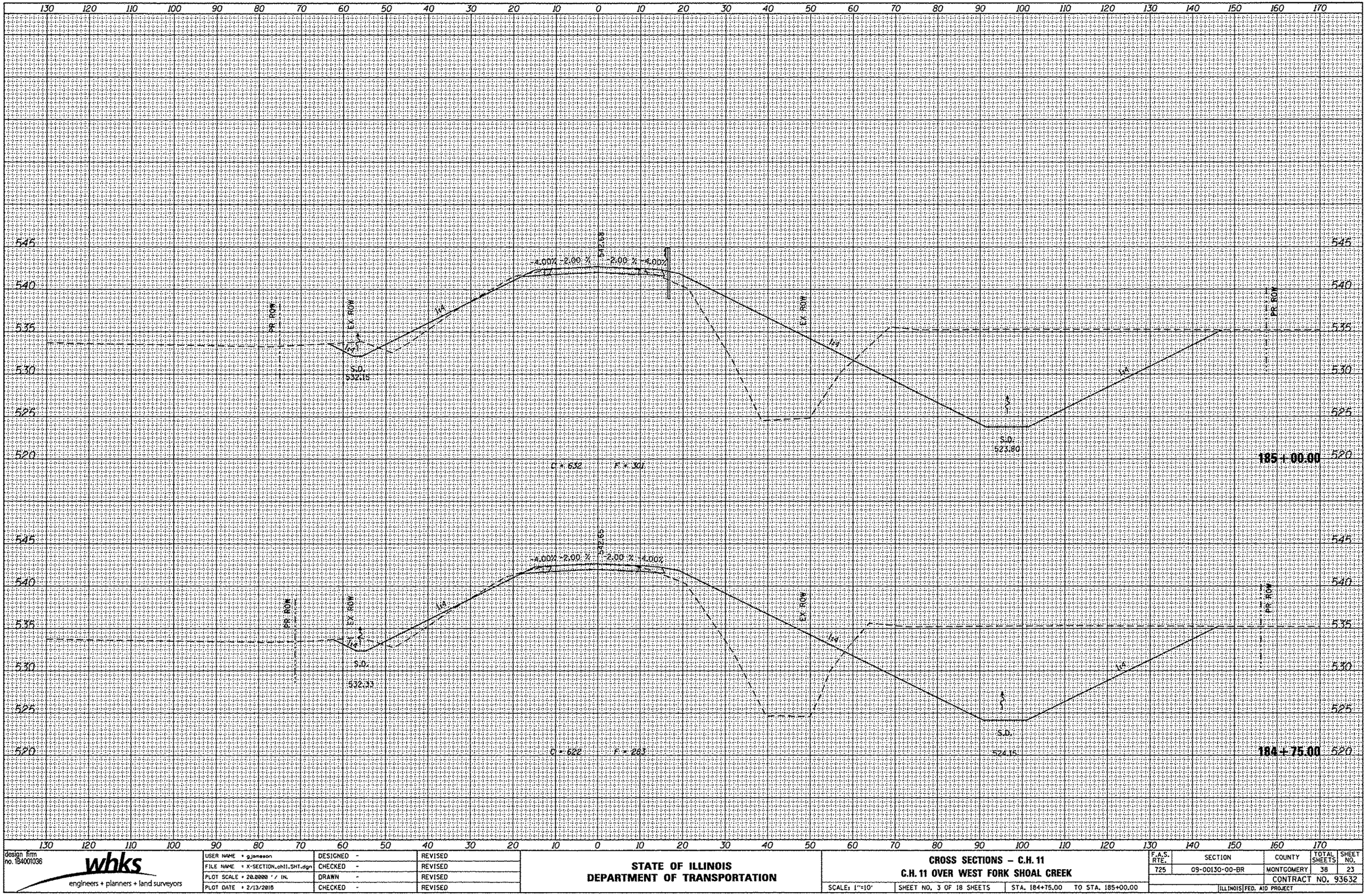
CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 2 OF 18 SHEETS | STA. 184+25.00 TO STA. 184+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	22
		CONTRACT NO. 93632		
ILLINOIS	FED. AID PROJECT			

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

BY	DATE



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

BY	DATE

design firm no. 184001036

whks
engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -		REVISED
FILE NAME = X-SECTION_ch11.SHT.dgn	CHECKED -		REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -		REVISED
PLOT DATE = 2/13/2018	CHECKED -		REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 3 OF 18 SHEETS | STA. 184+75.00 TO STA. 185+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	23
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

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

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

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

545 540 535 530 525 520

PR. ROW
EX. ROW
1:2
1:4
5.0'
531.77
-4.00% -2.00 % 542.75 -2.00 % -4.00%
EX. ROW
PR. ROW
5.0'
523.10

185+50.00

C = 615 F = 299

PR. ROW
EX. ROW
1:2
1:4
5.0'
531.86
-4.00% -2.00 % 542.71 -2.00 % -4.00%
EX. ROW
PR. ROW
5.0'
523.45

185+25.00

C = 623 F = 297

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

design firm no. 184001036

whks engineers + planners + land surveyors

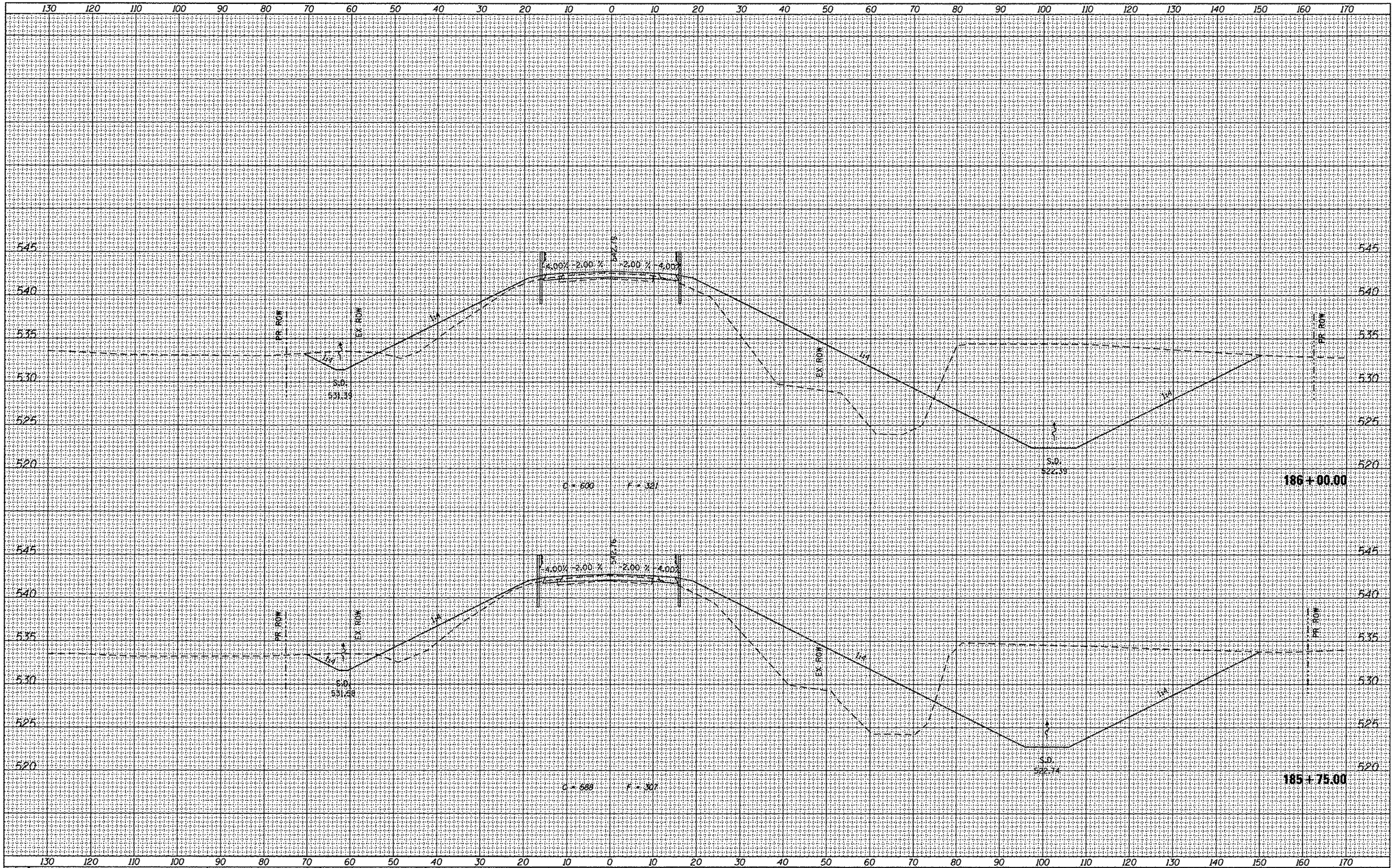
USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = X-SECTION_ch11_SHT.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 4 OF 18 SHEETS | STA. 185+25.00 TO STA. 185+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	24
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			



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

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

design firm no. 184001036

whks engineers + planners + land surveyors

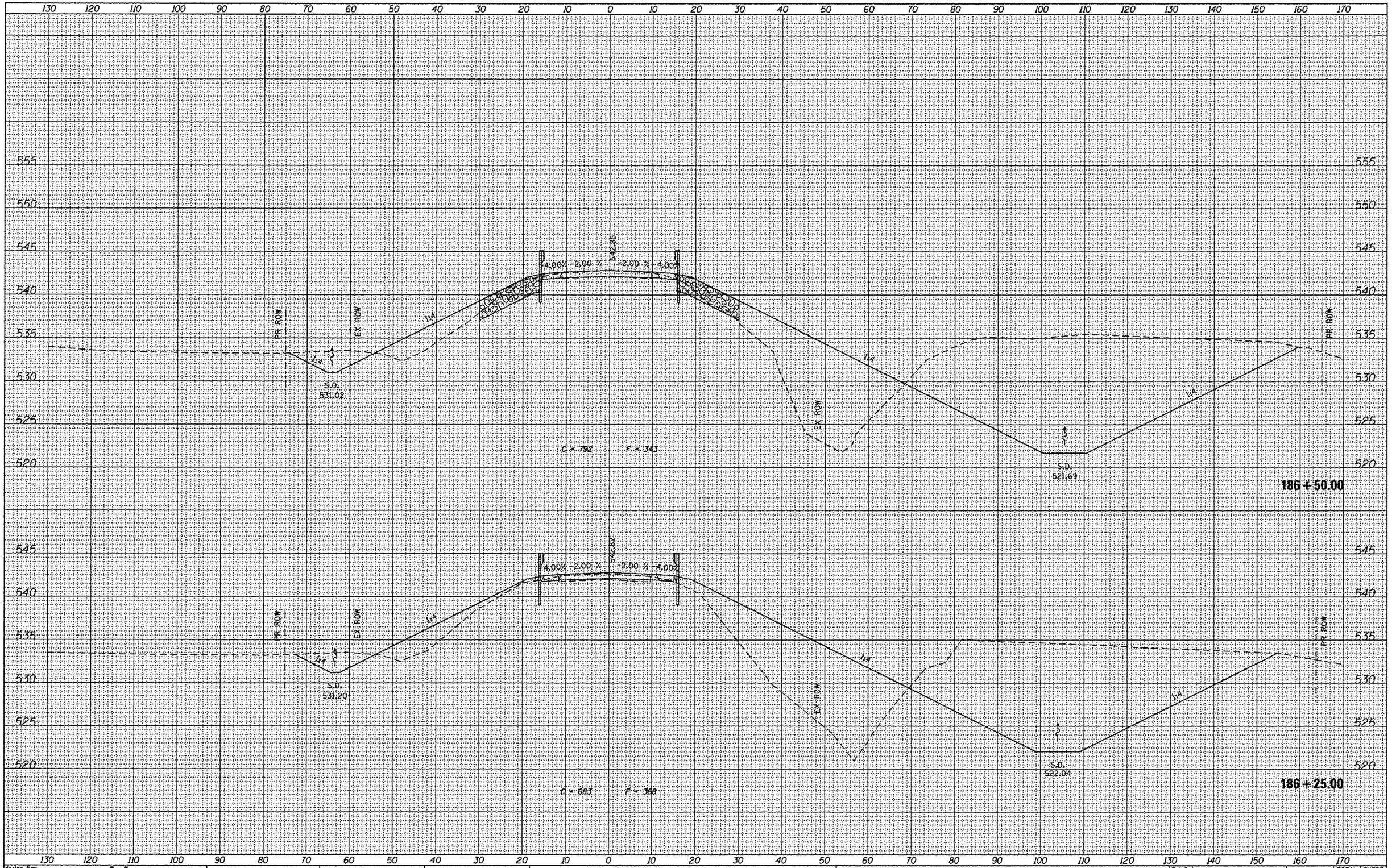
USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = X-SECTION_ch11_SHT.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 5 OF 18 SHEETS | STA. 185+75.00 TO STA. 186+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	25
		CONTRACT NO. 93632		
		ILLINOIS FED. AID PROJECT		



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

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

design firm no. 184001036
whks
engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = X-SECTION_ch11_SHT.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

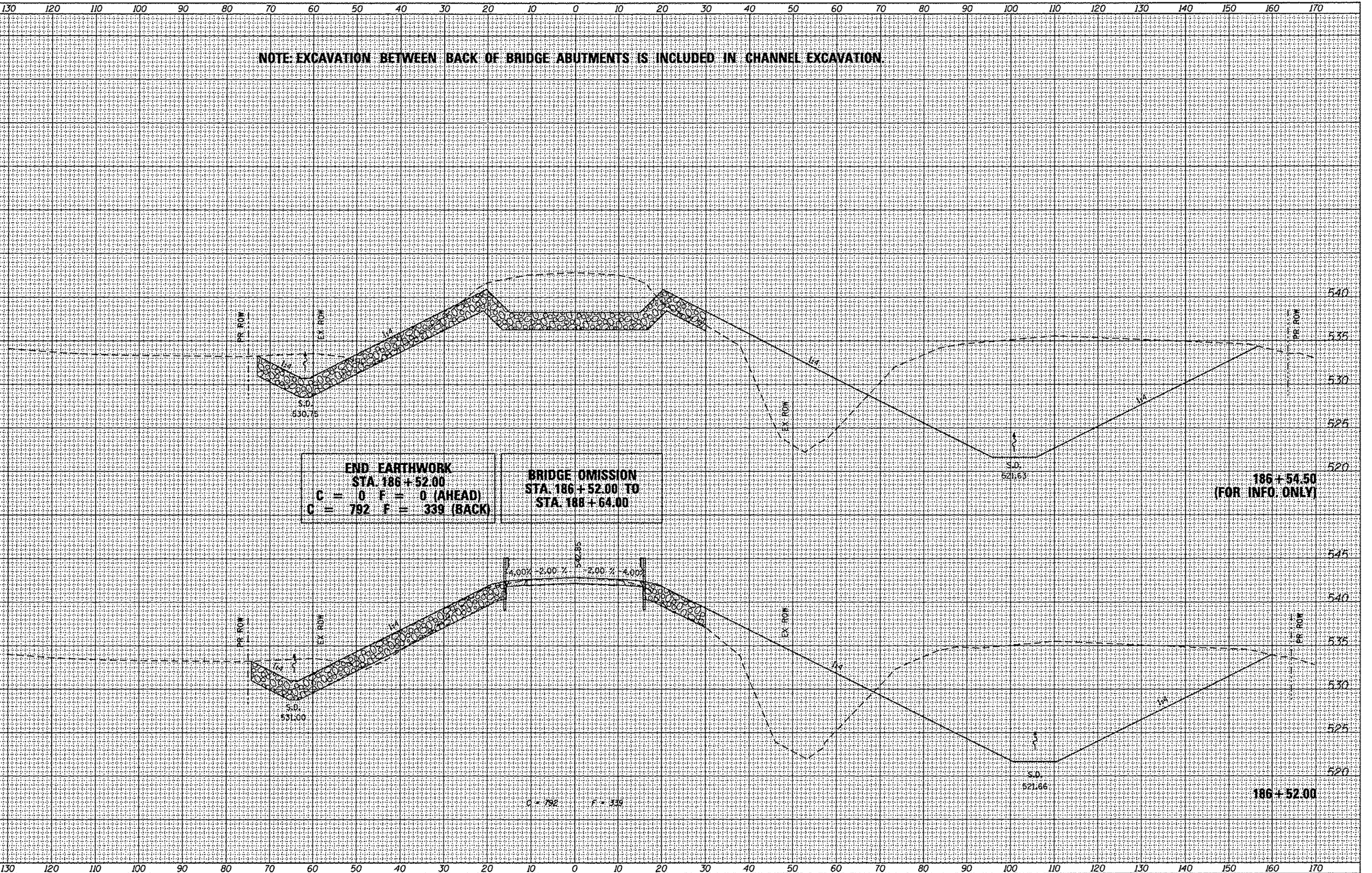
SCALE: 1"=10' | SHEET NO. 6 OF 18 SHEETS | STA. 186+25.00 TO STA. 186+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	26
		CONTRACT NO. 93632		
		ILLINOIS FED. AID PROJECT		

NOTE: EXCAVATION BETWEEN BACK OF BRIDGE ABUTMENTS IS INCLUDED IN CHANNEL EXCAVATION.

END EARTHWORK
STA. 186 + 52.00
C = 0 F = 0 (AHEAD)
C = 792 F = 339 (BACK)

BRIDGE OMISSION
STA. 186 + 52.00 TO
STA. 188 + 64.00



design firm no. 184001036	USER NAME = gjonsson	DESIGNED -	REVISED
whks engineers + planners + land surveyors	FILE NAME = X-SECTION.chII.SHT.dgn	CHECKED -	REVISED
	PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
	PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

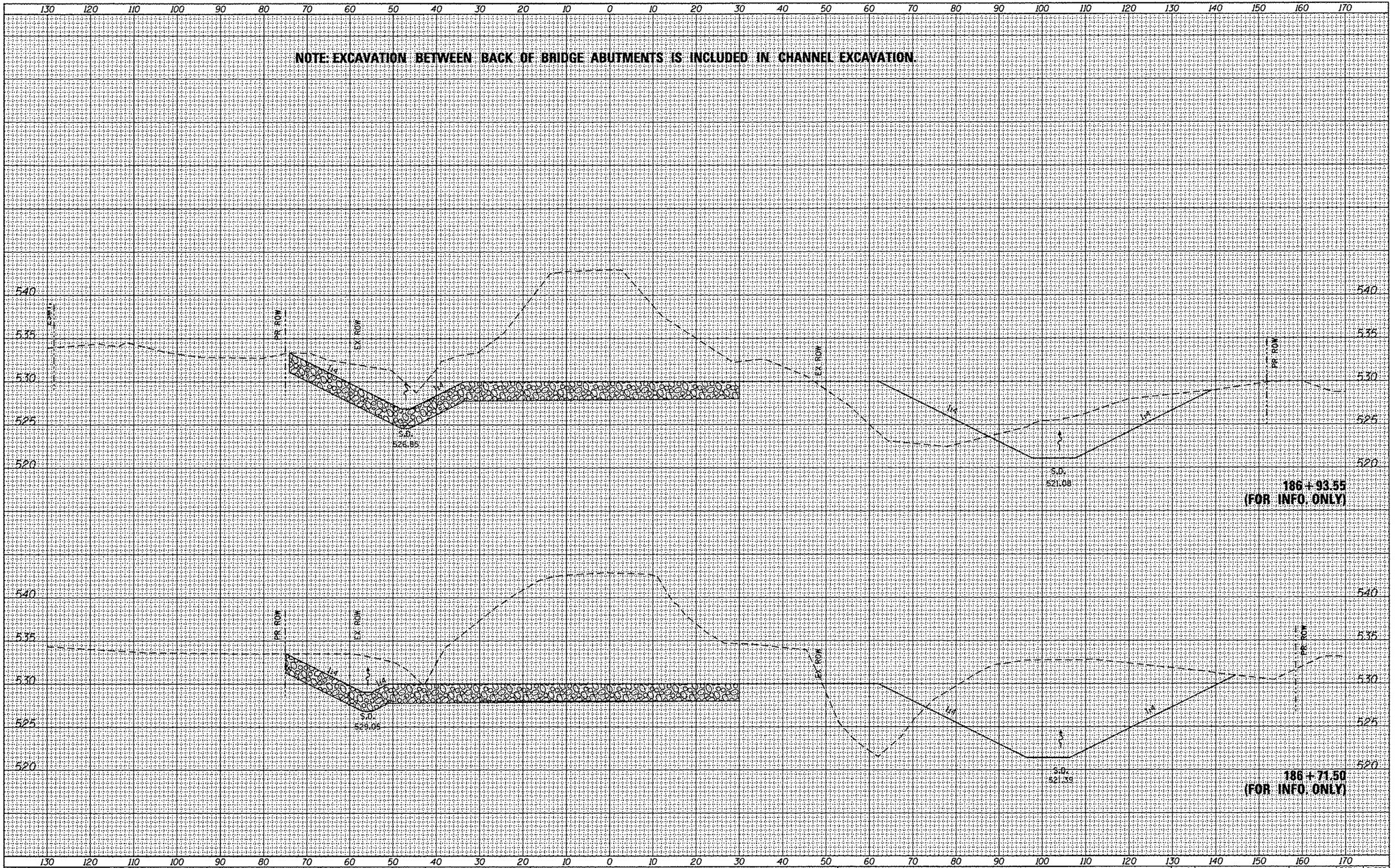
SCALE: 1"=10' | SHEET NO. 7 OF 18 SHEETS | STA. 186+52.00 TO STA. 186+54.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	27
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

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

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

NOTE: EXCAVATION BETWEEN BACK OF BRIDGE ABUTMENTS IS INCLUDED IN CHANNEL EXCAVATION.



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

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

design firm no. 184001036
whks
engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -	REVISED	
FILE NAME = X-SECTION_ohll.SHT.dgn	CHECKED -	REVISED	
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED	
PLOT DATE = 2/13/2015	CHECKED -	REVISED	

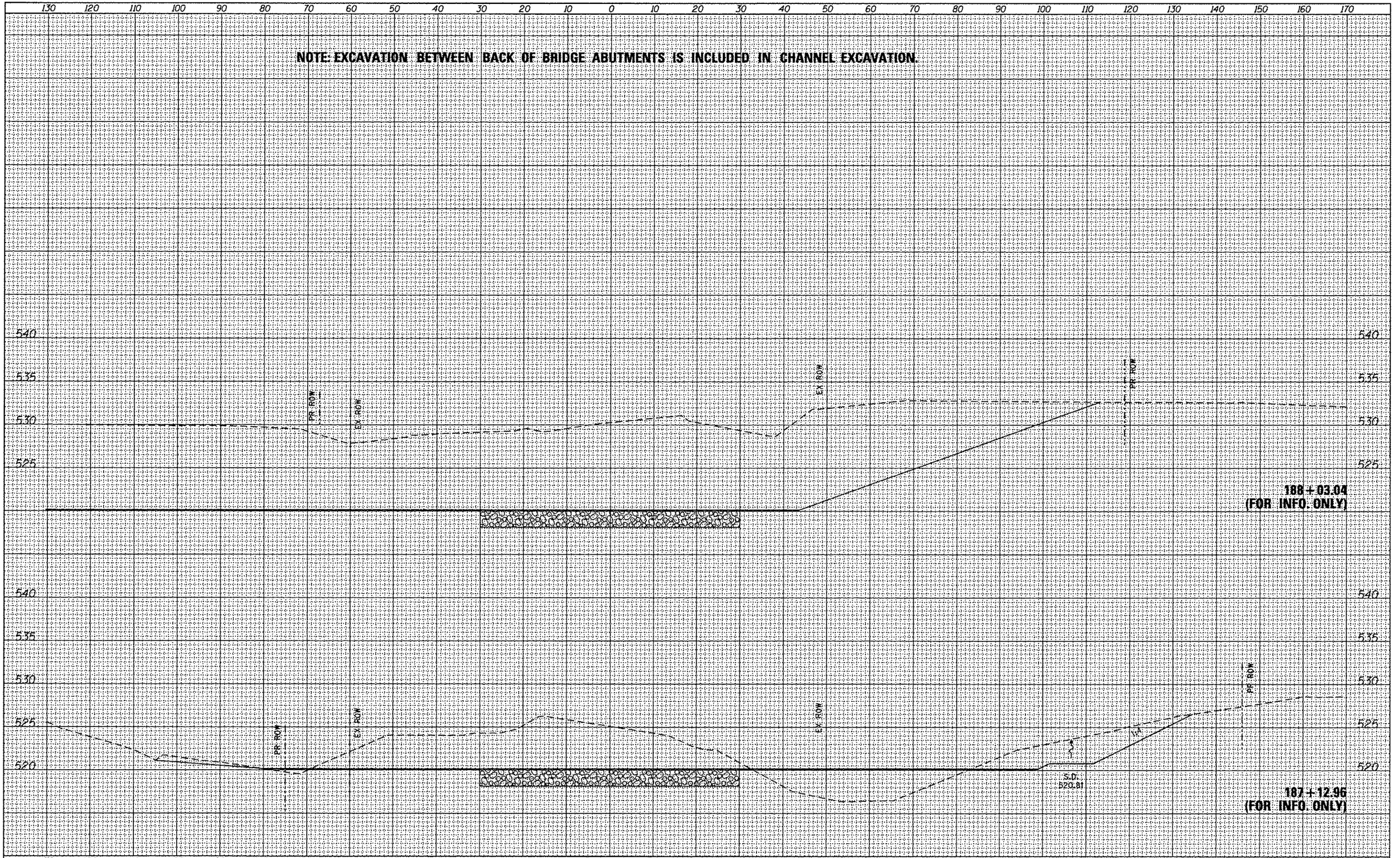
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 8 OF 18 SHEETS | STA. 186+71.50 | TO STA. 186+93.55

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	28
		CONTRACT NO. 93632		
		ILLINOIS FED. AID PROJECT		

NOTE: EXCAVATION BETWEEN BACK OF BRIDGE ABUTMENTS IS INCLUDED IN CHANNEL EXCAVATION.



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

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

design firm no. 184001036 — whks engineers + planners + land surveyors	USER NAME = gjameson	DESIGNED -	REVISED
	FILE NAME = X-SECTION.ch11.SHT.dgn	CHECKED -	REVISED
	PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
	PLOT DATE = 2/13/2015	CHECKED -	REVISED

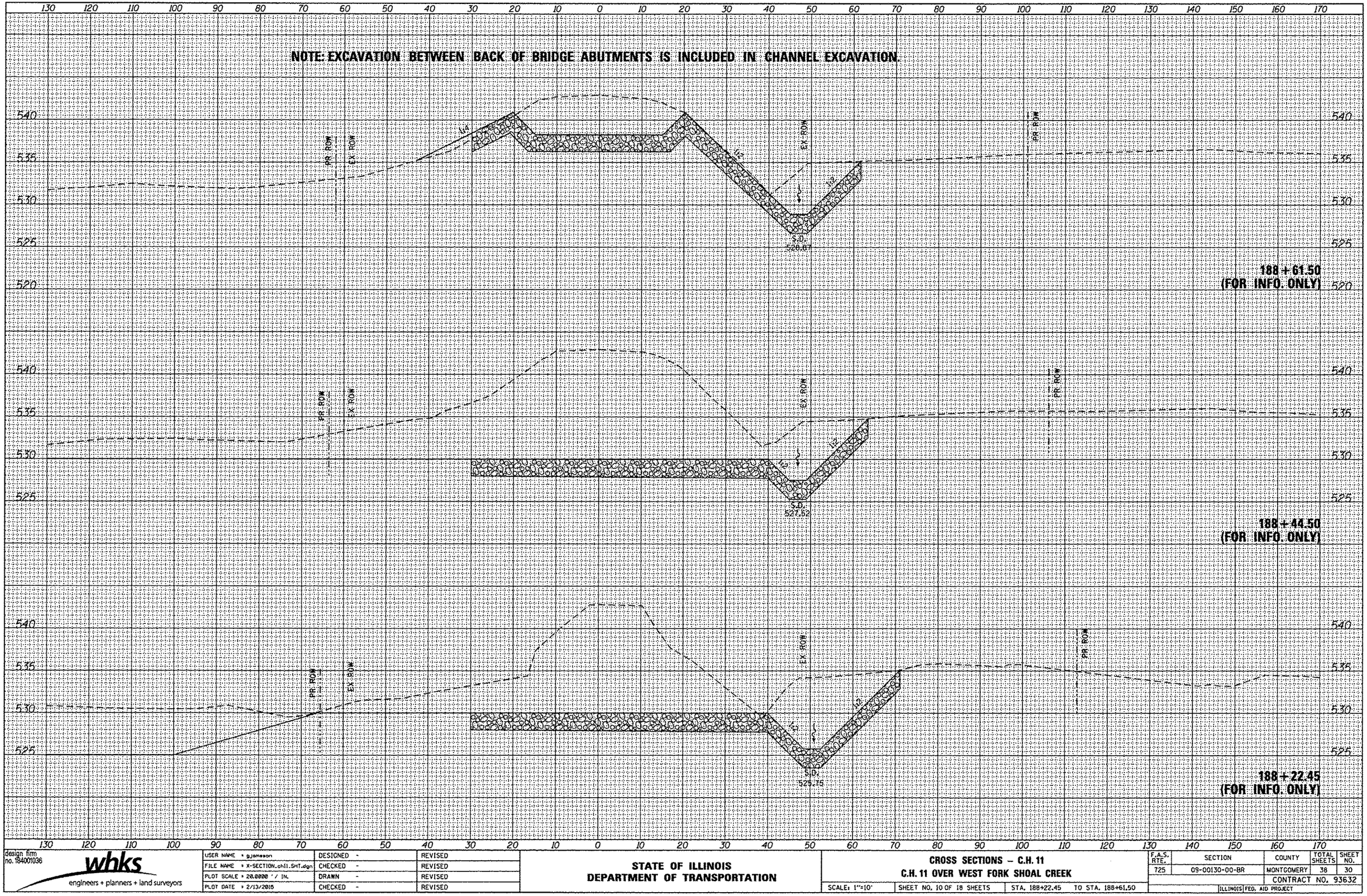
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 9 OF 18 SHEETS | STA. 187+12.96 TO STA. 188+03.04

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	29
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

NOTE: EXCAVATION BETWEEN BACK OF BRIDGE ABUTMENTS IS INCLUDED IN CHANNEL EXCAVATION.



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

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

design firm no. 184001038

whks engineers + planners + land surveyors

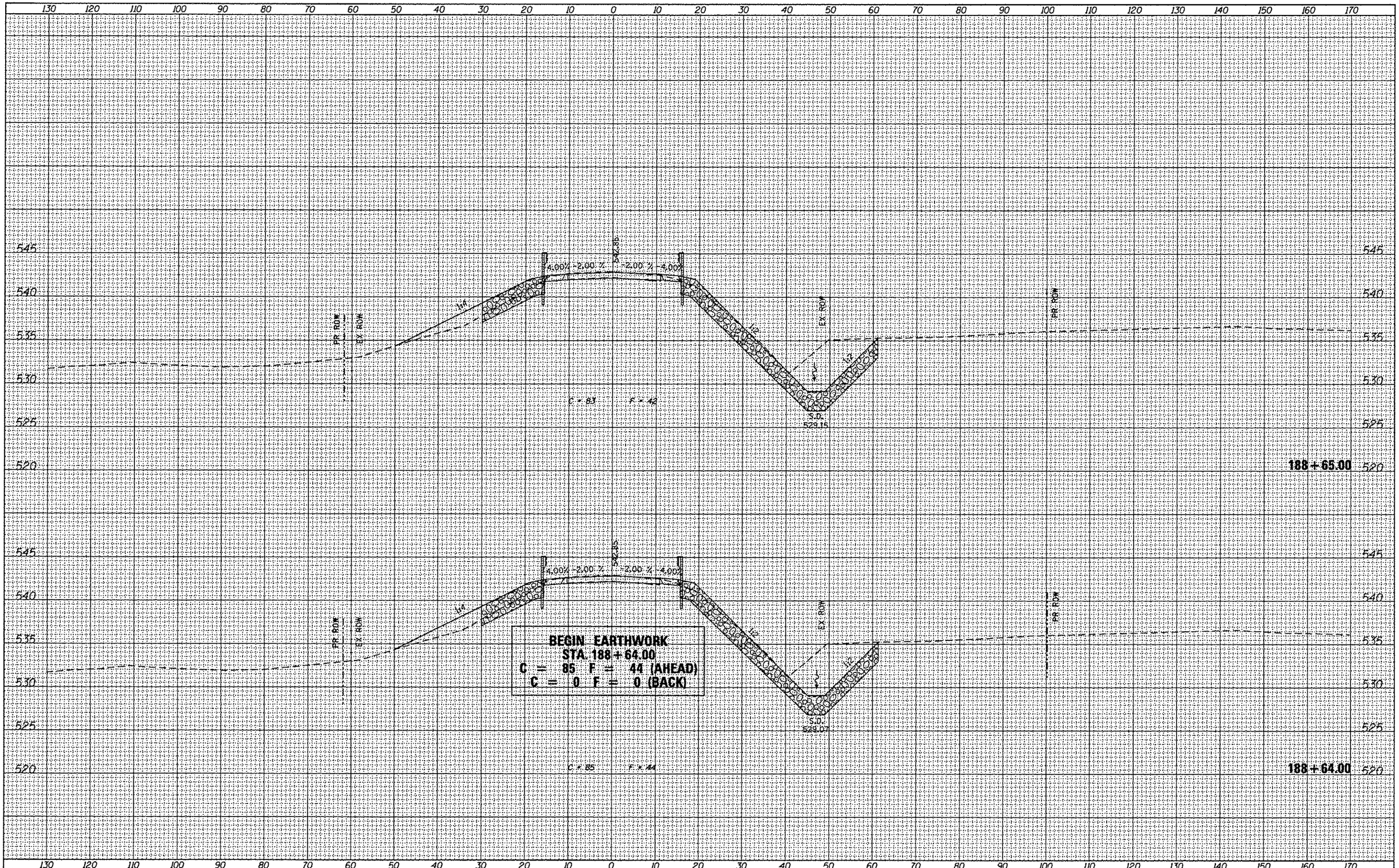
USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = X-SECTION_ch11.SHT.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 10 OF 18 SHEETS | STA. 188+22.45 TO STA. 188+61.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	30
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			



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

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

design firm no. 184001036

whks engineers + planners + land surveyors

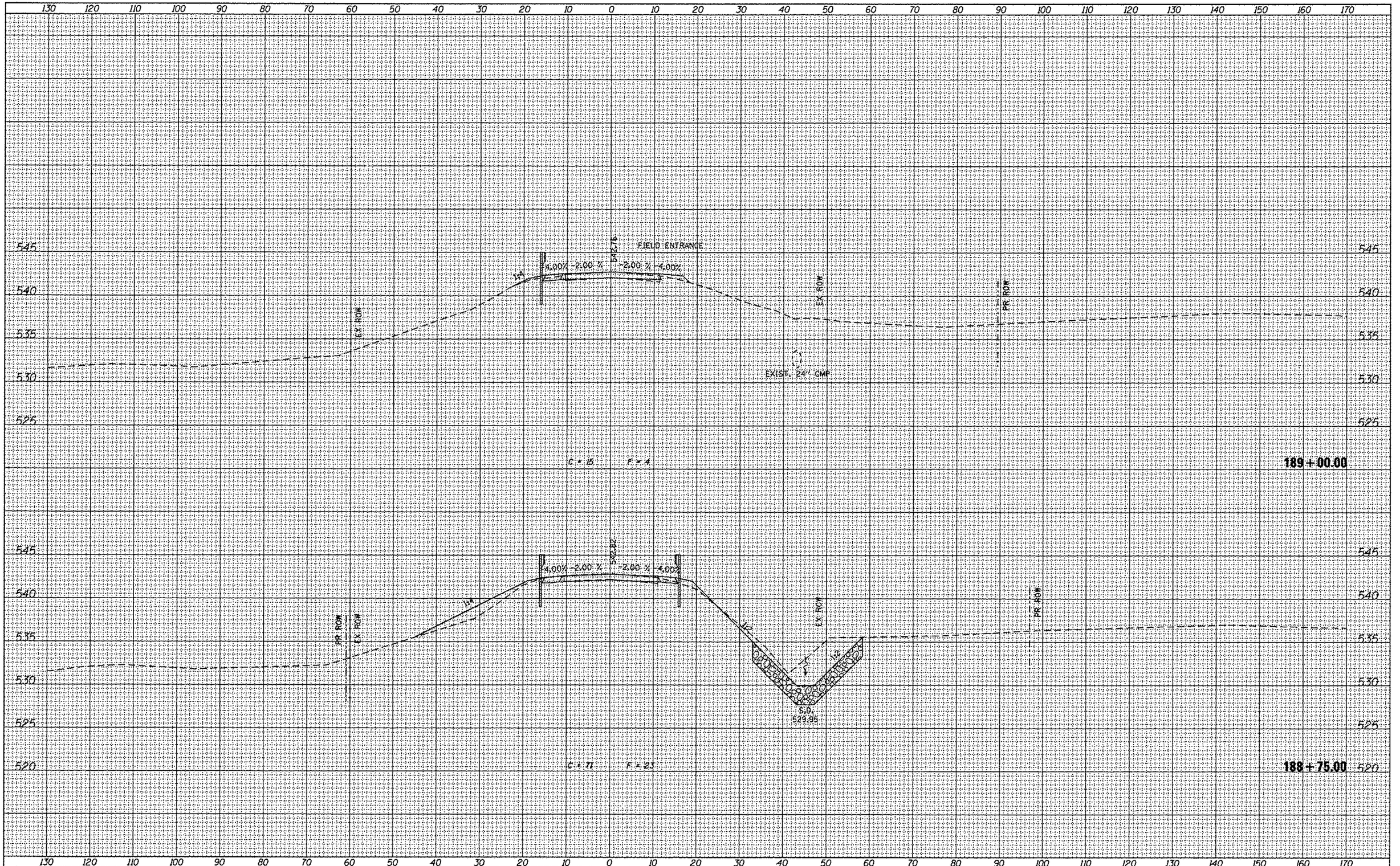
USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = X-SECTION_ch11.SHT.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 11 OF 18 SHEETS | STA. 188+64.00 TO STA. 188+65.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	31
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			



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

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

design firm no. 184001036

whks engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED -	REVISED
FILE NAME = X-SECTION..ch11_SHT.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

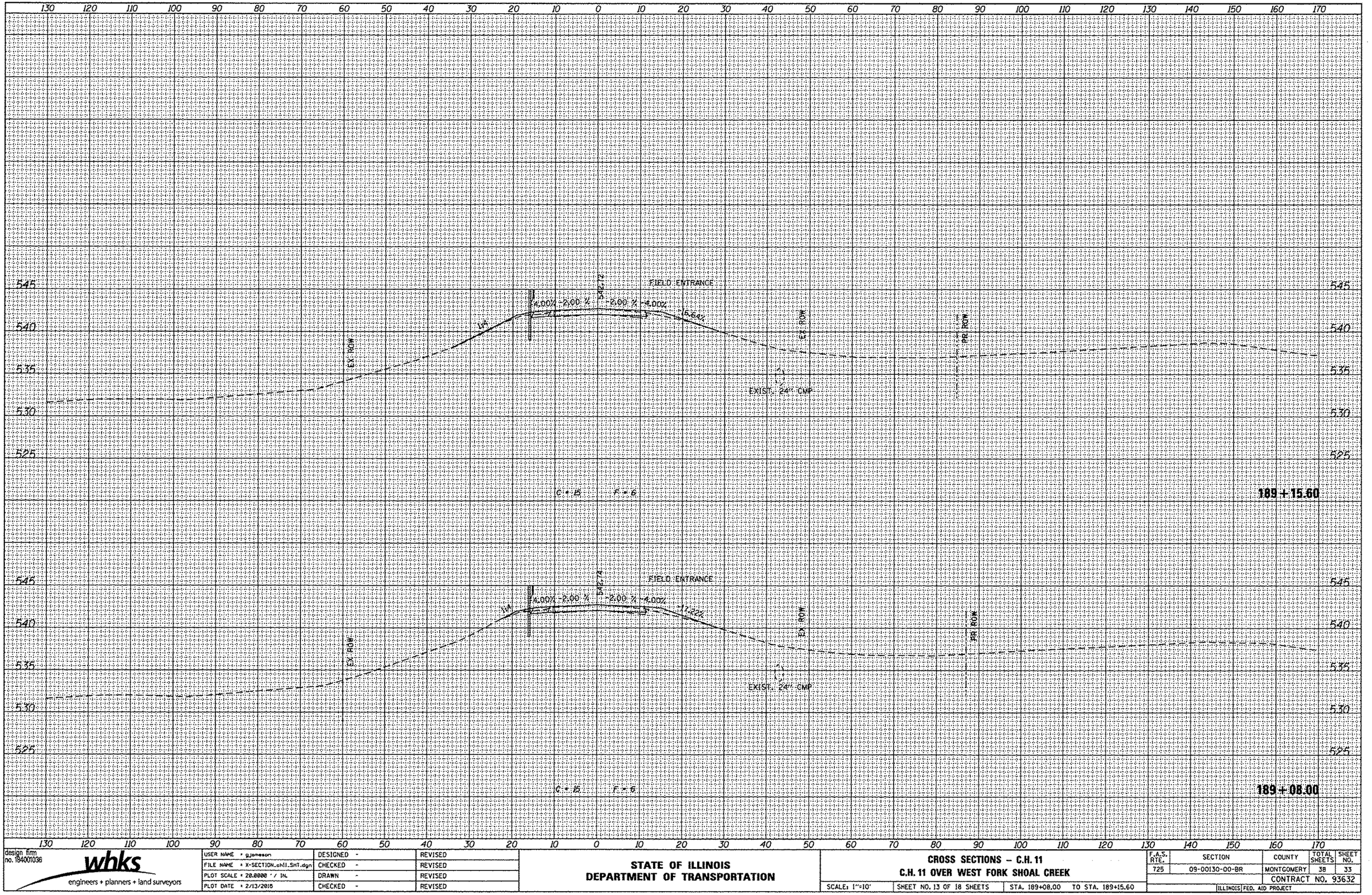
SCALE: 1"=10' | SHEET NO. 12 OF 18 SHEETS | STA. 188+75.00 TO STA. 189+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	32
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

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

BY

DATE



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

BY

DATE

design firm no. 184001036

whks engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -		REVISED
FILE NAME = X-SECTION_ch11.SHT.dgn	CHECKED -		REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -		REVISED
PLOT DATE = 2/13/2015	CHECKED -		REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 13 OF 18 SHEETS | STA. 189+08.00 TO STA. 189+15.60

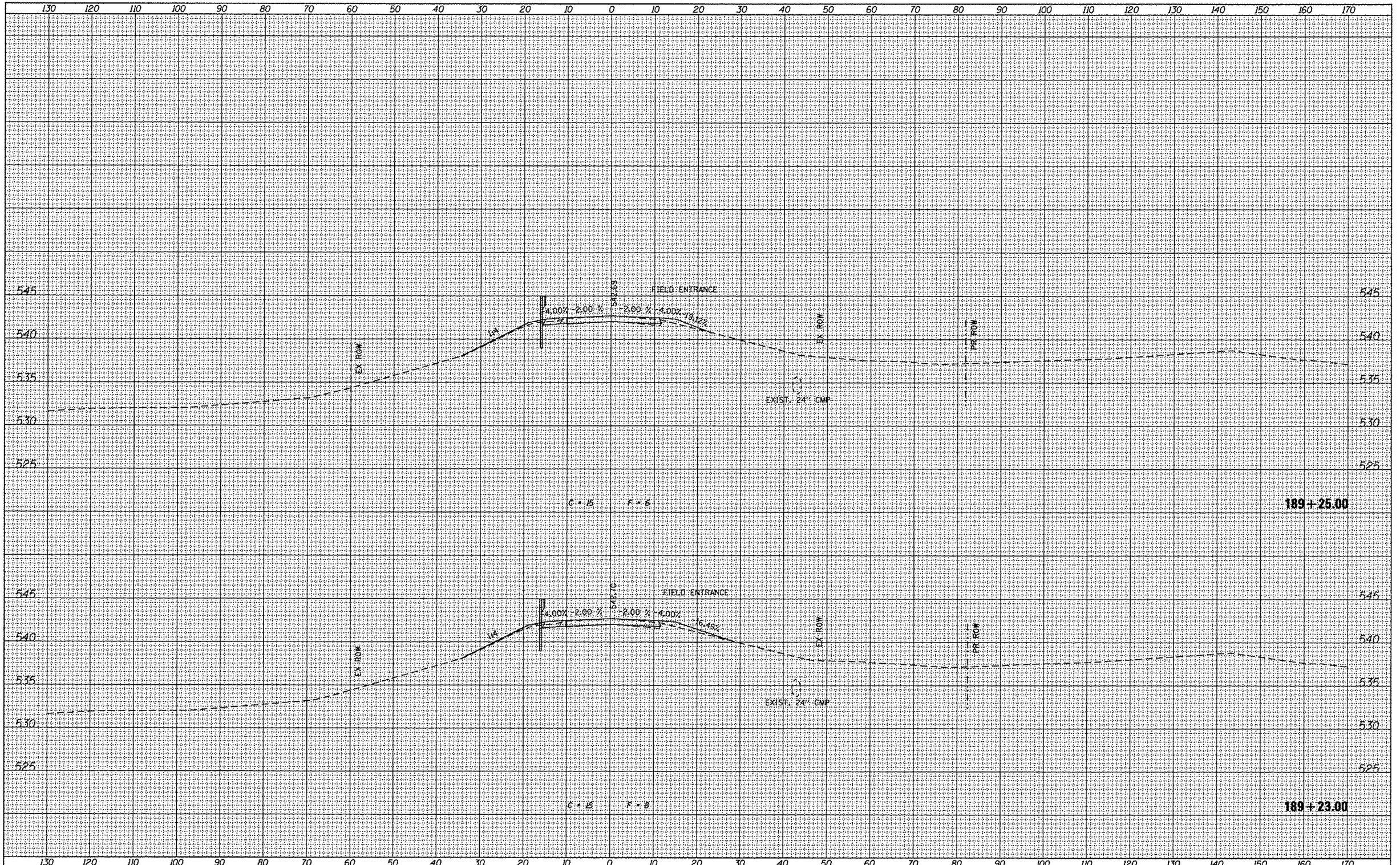
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	33
		CONTRACT NO. 93632		
		ILLINOIS FED. AID PROJECT		

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

DATE	BY

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

DATE	BY



design firm no. 184001036	USER NAME = gjameson	DESIGNED -	REVISED
whks engineers + planners + land surveyors	FILE NAME = X-SECTION.ohll.SHT.dgn	CHECKED -	REVISED
	PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
	PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

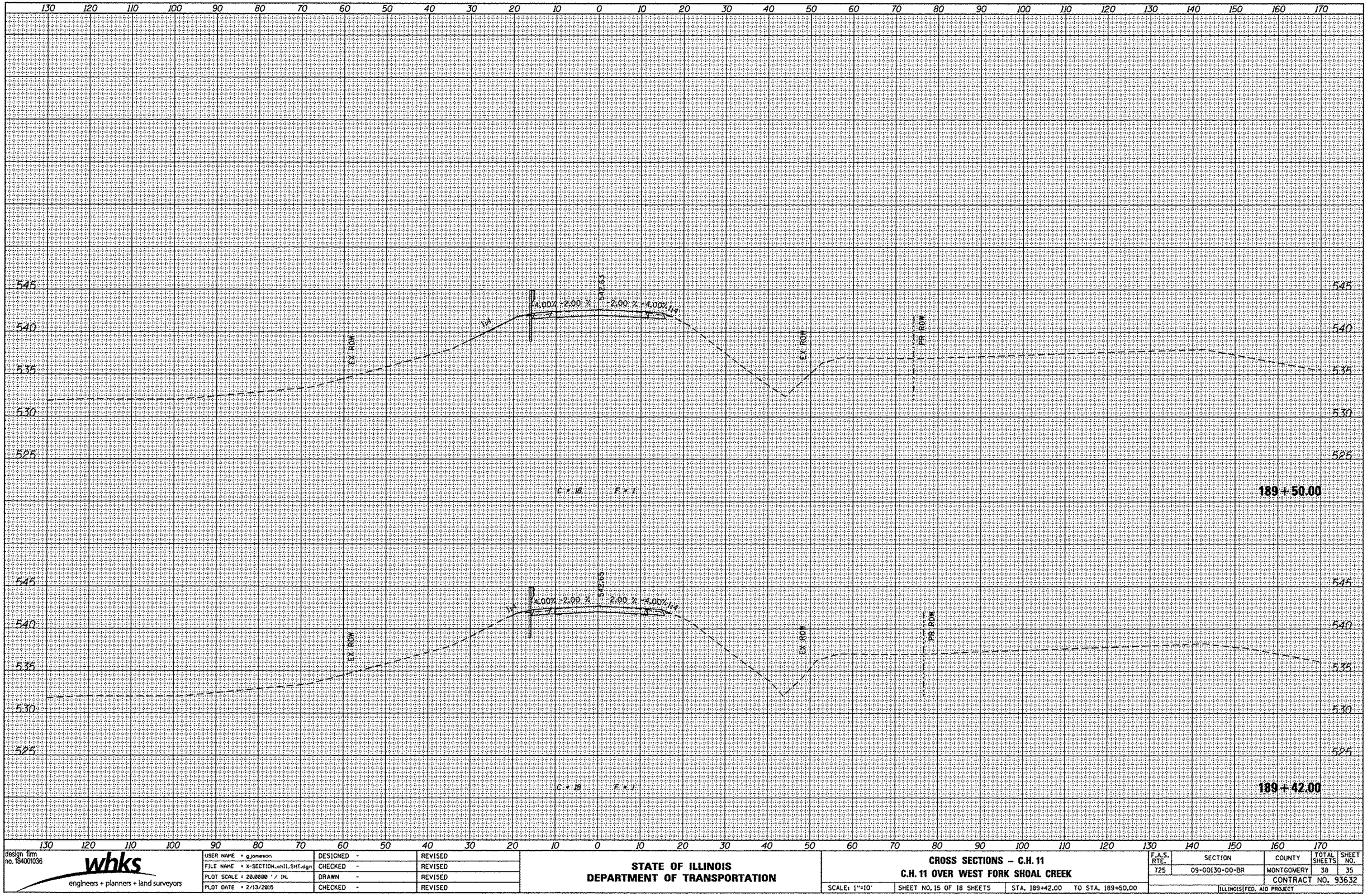
CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 14 OF 18 SHEETS | STA. 189+23.00 TO STA. 189+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	34
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE



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

BY	DATE

design firm no. 184001036

whks engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -	REVISED	
FILE NAME = X-SECTION_ch11.SHT.dgn	CHECKED -	REVISED	
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED	
PLOT DATE = 2/13/2015	CHECKED -	REVISED	

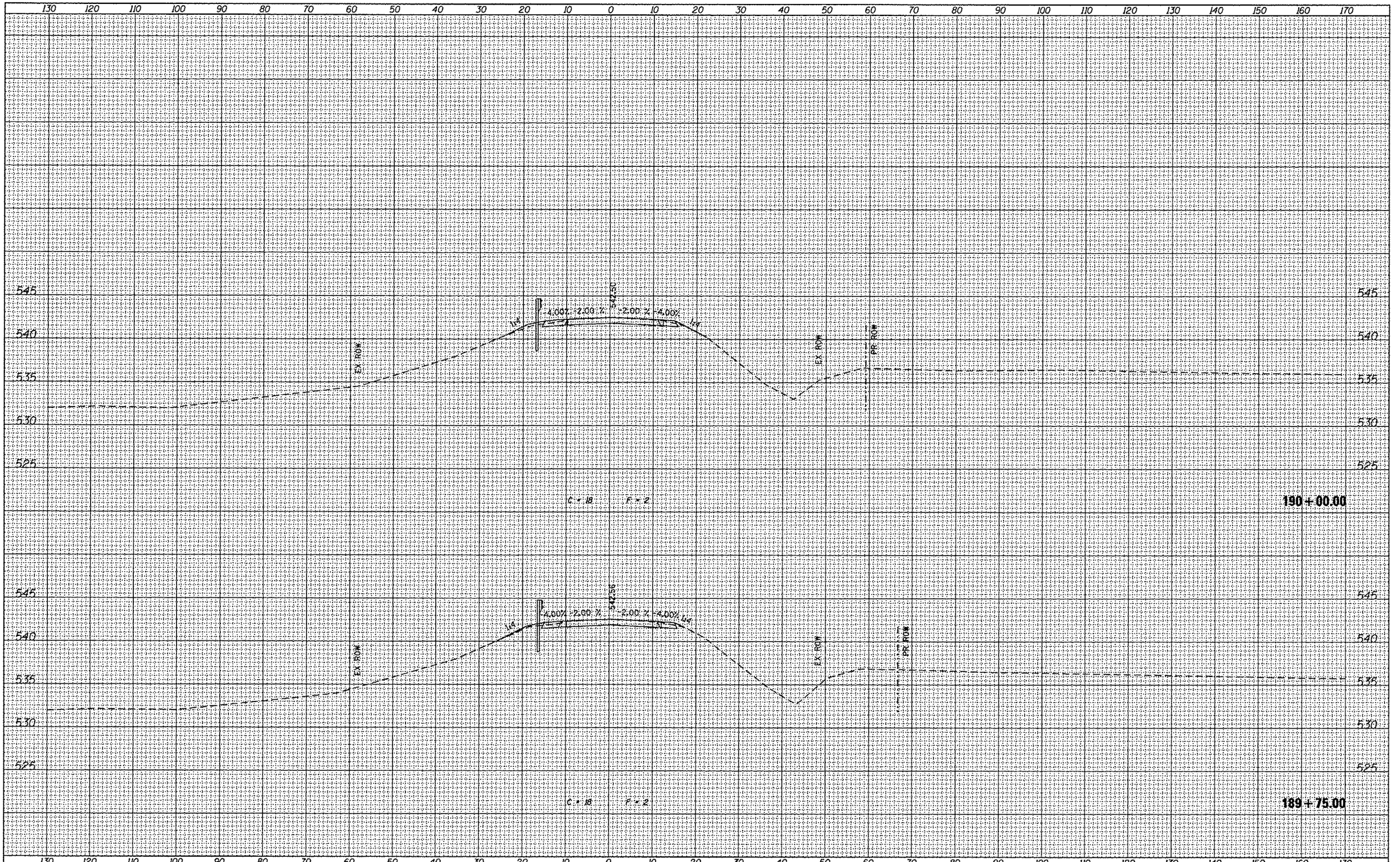
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 15 OF 18 SHEETS | STA. 189+42.00 TO STA. 189+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	35
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

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



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

design firm no. 184001036

whks
engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = X-SECTION.ohll.SHT.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 16 OF 18 SHEETS | STA. 189+75.00 TO STA. 190+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	36
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

550 545 540 535 530 525

END PROJECT
STA. 190+50.00
C = 0 F = 0 (AHEAD)
C = 4 F = 0 (BACK)

EX. ROW

EX. ROW

C x A F x D

4.00%

4.00%

EX. ROW

PR. ROW

190+50.00

C x B F x E

190+25.00

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

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

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

design firm no. 184001096

whks
engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = X-SECTION_ohIL.SHT.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED
PLOT DATE = 2/13/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

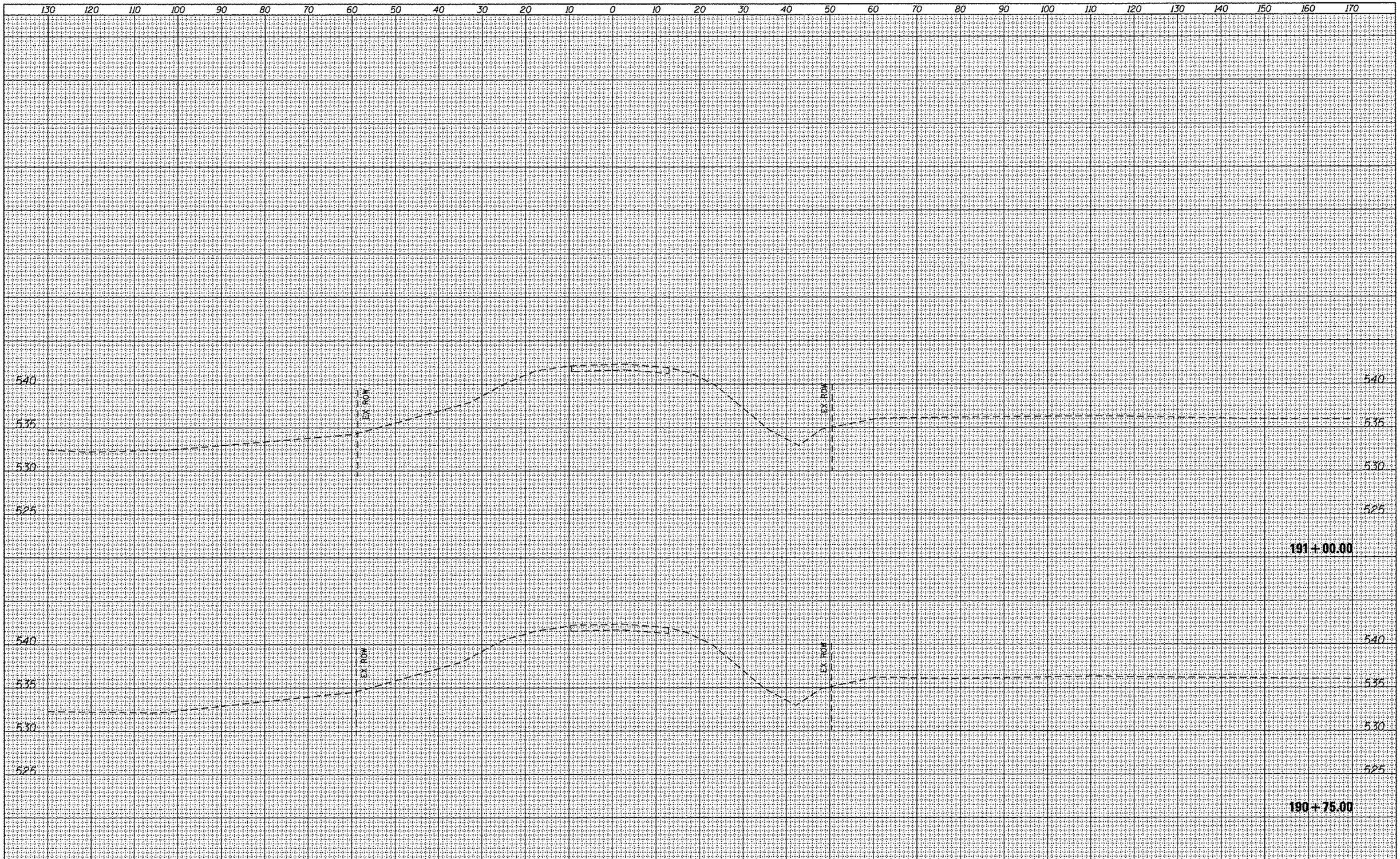
CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 17 OF 18 SHEETS | STA. 190+25.00 TO STA. 190+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	37
		CONTRACT NO. 93632		
		ILLINOIS FED. AID PROJECT		

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

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



USER NAME = g.jameson	DESIGNED -	REVISED	
FILE NAME = X-SECTION_ch11_SHT.dgn	CHECKED -	REVISED	
PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED	
PLOT DATE = 2/13/2015	CHECKED -	REVISED	

design firm no. 184001036

whks engineers + planners + land surveyors

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – C.H. 11
C.H. 11 OVER WEST FORK SHOAL CREEK

SCALE: 1"=10' | SHEET NO. 18 OF 18 SHEETS | STA. 190+75.00 TO STA. 191+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	09-00130-00-BR	MONTGOMERY	38	38
		CONTRACT NO. 93632		
	ILLINOIS FED. AID PROJECT			