

FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO
-	*	DEKALB	21	1

ILLINOIS PROJECT BRS-1122(107)
 * 04-00206-00-BR
 CONTRACT NO. 87316

PLANS FOR PROPOSED FEDERAL-AID HIGHWAY BRIDGE PROGRAM

F.A.S. 1122 (C.H. 21) CHERRY VALLEY ROAD

SECTION 04-00206-00-BR

DEKALB COUNTY

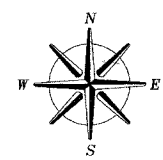
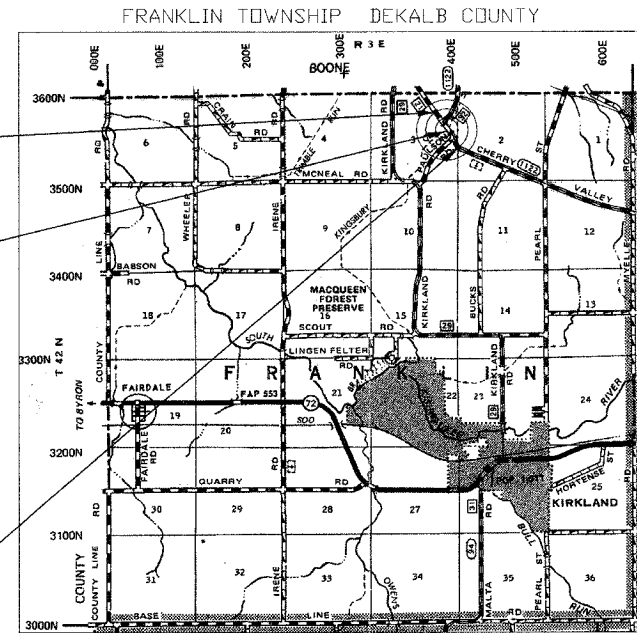
ILLINOIS PROJECT BRS-1122(107)

JOB NO. C-93-030-06

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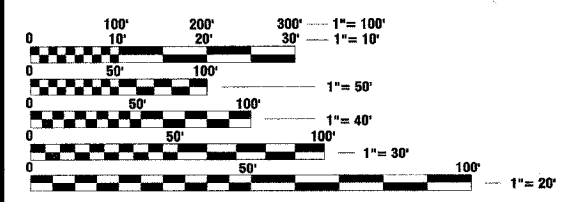
LOCATION MAP

GROSS LENGTH OF SECTION = 1255 FEET (0.24 MILE)
 NET LENGTH OF SECTION = 1255 FEET (0.24 MILE)

DESIGN CRITERIA

ROADWAY	DESIGN CLASSIFICATION	ADT 2006	ADT 2026	DESIGN SPEED
CHERRY VALLEY	RURAL COLLECTOR	3950	4500	55
STONE QUARRY	LOCAL ROAD	600	700	55
PAULSON ROAD	LOCAL ROAD	75	100	30

RURAL FAPLHI GUIDELINES



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

CONTRACT NO. 87316



Scott A. Brown 6/27/2007
 EXPIRES 11/30/2007

PLANS PREPARED BY:

WENDLER ENGINEERING SERVICES

DIXON, ILLINOIS
 SYCAMORE, ILLINOIS
 PRINCETON, ILLINOIS
 STERLING, ILLINOIS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 6/27 20 07
Will [Signature] COUNTY ENGINEER

PASSED 7/10 20 07
Kenneth R. Lay DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW 7/10 20 07
Marge E. [Signature] DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

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 OF THE STATE OF ILLINOIS**

SUMMARY OF QUANTITIES

FAS ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
-	.	DEKALB	21	2
ILLINOIS PROJECT BRS-1122(107)				
* 04-00206-00-BR				

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	FEDERAL FUNDING CODE X-020-2A (STRUCTURE)	FEDERAL FUNDING CODE X-1000 (ROADWAY)	NON-PARTICIPATING 100% LOCAL COUNTY FUNDING CODE X-1000
20200100	EARTH EXCAVATION	CU YD	3540	0	460	3080
20400800	FURNISHED EXCAVATION	CU YD	950	0	124	827
20800150	TRENCH BACKFILL	CU YD	25	0	0	25
* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.49	0	0	1
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	800	0	104	696
28000300	TEMPORARY DITCH CHECKS	EACH	25	0	3	22
28000400	PERIMETER EROSION BARRIER	FOOT	400	0	52	348
31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	964	0	125	839
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	26	0	0	26
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	9.76	0	5.12	5
40600982	HOT-MIX ASPHALT SURFACE COURSE REMOVAL - BUTT JOINT	SQ YD	532	0	0	532
40603080	HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	3151	0	1500	1651
40603305	HOT MIX ASPHALT SURFACE SOURCE, MIX "C", N30	TON	1119	0	740	379
48101200	AGGREGATE SHOULDERS, TYPE B	TON	188	0	75	113
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	0	0
50300225	CONCRETE STRUCTURES	CU YD	25.1	25	0	0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	153.5	154	0	0
50300260	BRIDGE DECK GROOVING	SQ YD	222	222	0	0
50300300	PROTECTIVE COAT	SQ YD	242	242	0	0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	6595	6595	0	0
50700305	HARDWARE	POUND	3084	3084	0	0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	20,320	20320	0	0
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	87	87	0	0
51201005	FURNISHING METAL SHELL PILES 12"	FOOT	583	583	0	0
51203200	TEST PILE METAL SHELLS	EACH	1	1	0	0
51500100	NAME PLATES	EACH	1	1	0	0
542D0220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	84	0	0	84
542D0223	PIPE CULVERTS, CLASS D, TYPE 1, 18"	FOOT	250	0	250	0
542A0241	PIPE CULVERTS, CLASS A, TYPE 1, 36"	FOOT	115	0	0	115
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	940	0	940	0
Δ 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	550	0	550	0
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4	0	4	0
Δ * 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	3	0	3	0
Δ * 63100169	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)	EACH	1	0	1	0
* 63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	414	0	414	0
Δ 78001100	PAINT PAVEMENT MARKINGS - LETTERS AND SYMBOLS	SQ FT	54.2	0	10	44
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4268	0	555	3713
Δ 78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	754	0	0	754
Δ 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	43	0	0	43
Δ 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	78	0	0	78
Δ * 78200455	BIDIRECTIONAL GUARD RAIL REFLECTORS	EACH	12	0	12	0
Δ * 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	0	4	0
* X5121800	PERMANENT STEEL SHEET PILING	SQ FT	3550	3550	0	0

Δ SPECIALTY ITEMS

QUANTITY NOTES:

*SEE SPECIAL PROVISIONS

PERIMETER EROSION BARRIER IS AN ESTIMATED QUANTITY. LOCATIONS ARE TO BE DESIGNATED IN THE FIELD BY THE ENGINEER.

SUMMARY OF QUANTITIES
SECTION 04-00206-00-BR
CHERRY VALLEY ROAD
DEKALB COUNTY

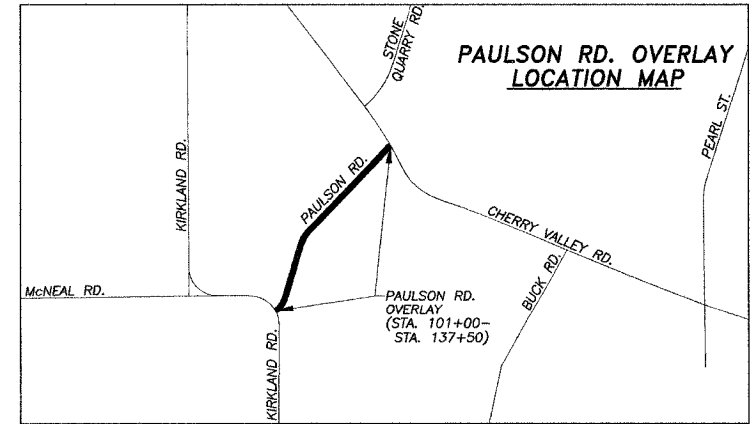
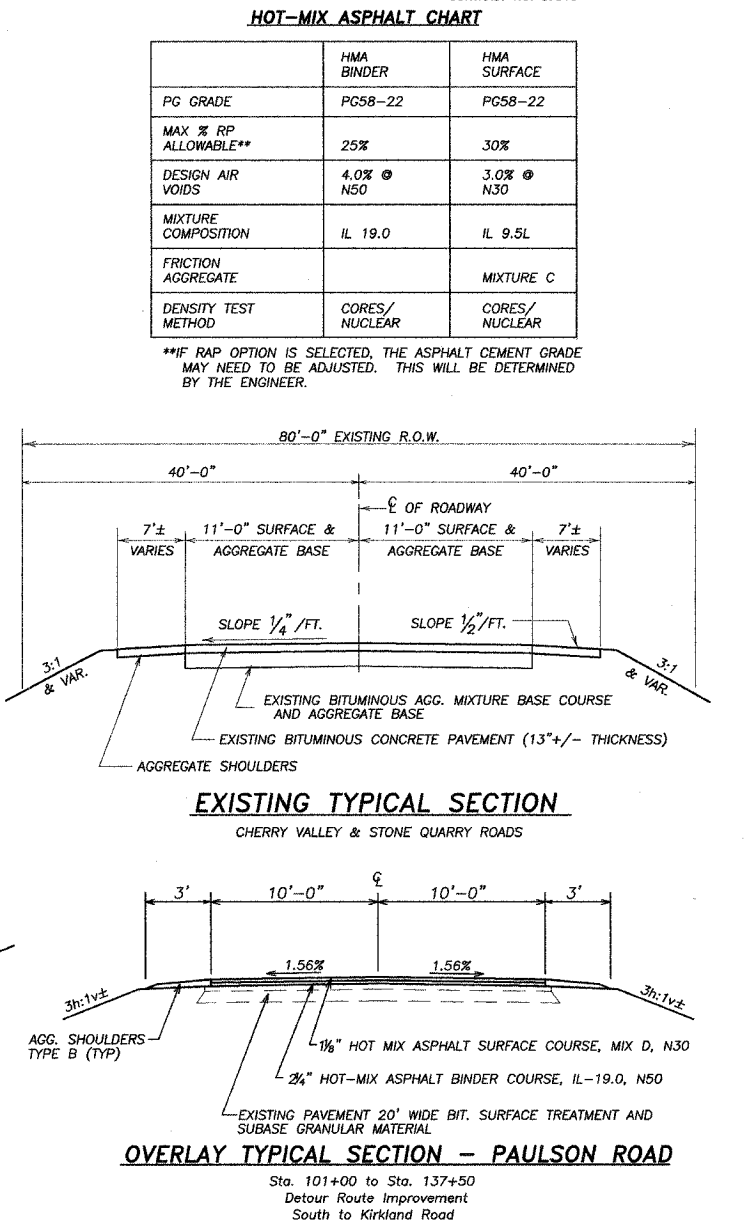
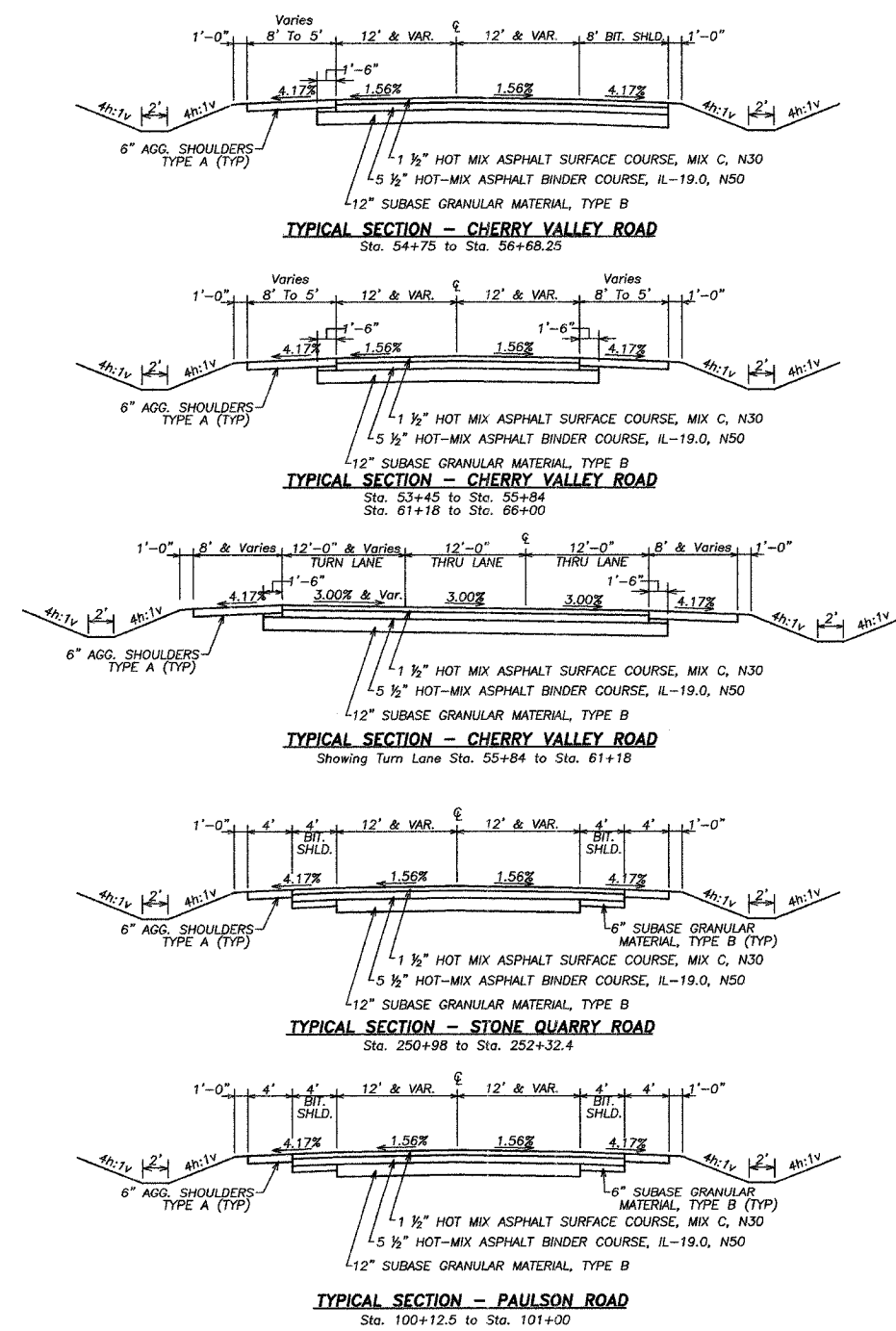
SCHEDULE OF QUANTITIES

FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	DEKALB	21	3

ILLINOIS PROJECT BRS-1122(107)
 * 04-00206-00-BR
 CONTRACT NO. 87316

ITEM NO.	DESCRIPTION	LOCATION	QUANTITY
28000300	TEMPORARY DITCH CHECKS		
	LOCATION	EACH	
	STA. 53+45 - STA. 66+00	25	
	TOTAL	25 EACH	
31101000	SUB-BASE GRANULAR MATERIAL, TYPE B		
	LOCATION	TON	
	STA. 53+45 - STA. 56+68	220	
	STA. 57+12 - STA. 66+00	502	
	STA. 250+98 - STA. 252+25	140	
	STA. 100+12 - STA. 101+00	102	
	TOTAL	964 TON	
40200800	AGGREGATE SURFACE COURSE, TYPE B		
	LOCATION	TON	
	RT. STA. 60+98	12	
	LT. STA. 63+68	14	
	TOTAL	26 TON	
40300200	BITUMINOUS MATERIALS (PRIME COAT)		
	LOCATION	TON	
	STA. 53+45 - STA. 56+68	1.40	
	STA. 57+12 - STA. 66+00	3.41	
	STA. 250+98 - STA. 252+25	0.92	
	STA. 100+12 - STA. 101+00	0.66	
	PAULSON ROAD OVERLAY	3.37	
	TOTAL	9.76 TON	
40600902	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		
	LOCATION	SQ. YD.	
	STA. 53+45 - STA. 53+95	133	
	STA. 66+50 - STA. 66+00	133	
	STA. 100+75 - STA. 101+00	133	
	STA. 250+98 - STA. 251+48	133	
	TOTAL	532 SQ. YD.	
40603080	HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50		
	LOCATION	TON	
	STA. 53+45 - STA. 56+68	448	
	STA. 57+12 - STA. 66+00	1005	
	STA. 250+98 - STA. 252+25	323	
	STA. 100+12 - STA. 101+00	237	
	PAULSON ROAD OVERLAY	1140	
	TOTAL	3151 TON	
40603305	HOT MIX ASPHALT SURFACE COURSE, MIX "C", N30		
	LOCATION	TON	
	STA. 53+45 - STA. 56+68	722	
	STA. 57+12 - STA. 66+00	274	
	STA. 250+98 - STA. 252+25	88	
	STA. 100+12 - STA. 101+00	85	
	PAULSON ROAD OVERLAY	570	
	TOTAL	1119 TON	
48101200	AGGREGATE SHOULDER, TYPE B		
	LOCATION	TON	
	LT. STA. 53+45 - RT. STA. 250+97.80	8	
	LT. STA. 250+97.80 - LT. STA. 56+88.25	9	
	LT. STA. 57+11.75 - LT. STA. 66+00	48	
	RT. STA. 53+45 - RT. STA. 54+75	10	
	RT. STA. 57+11.75 - RT. STA. 101+00	46	
	LT. STA. 101+00 - RT. STA. 66+00	16	
	RT. & LT. STA. 101+00 - STA. 137+50	51	
	TOTAL	188 TON	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1, 15"		
	LOCATION	FOOT	
	F.E.R. STA. 61+00	42	
	F.E.L. STA. 63+68	42	
	TOTAL	84 FOOT	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1, 18"		
	LOCATION	FOOT	
	RT. STA. 53+45 - RT. STA. 55+95	250	
	TOTAL	250 FOOT	
542A0241	PIPE CULVERTS, CLASS A, TYPE 1, 36"		
	LOCATION	FOOT	
	LT. STA. 251+81 TO RT. STA. 251+65	115	
	TOTAL	115 FOOT	

ITEM NO.	DESCRIPTION	LOCATION	QUANTITY
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A		
	LOCATION	FOOT	
	RT. STA. 54+42.5 TO RT. STA. 56+55	212.5	
	RT. STA. 57+25 TO RT. STA. 58+50	125	
	LT. STA. 57+25 TO LT. STA. 59+37.5	212.5	
	TOTAL	550 FOOT	
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A		
	LOCATION	EACH	
	RT. STA. 56+55 TO RT. STA. 56+68.25	1	
	LT. STA. 56+55 TO LT. STA. 56+68.25	1	
	RT. STA. 57+11.75 TO RT. STA. 57+25	1	
	LT. STA. 57+11.75 TO LT. STA. 57+25	1	
	TOTAL	4 EACH	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)		
	LOCATION	EACH	
	RT. STA. 53+92.50 TO RT. STA. 54+42.50	1	
	RT. STA. 58+50 TO RT. STA. 59+00	1	
	LT. STA. 59+37.50 TO LT. STA. 59+87.50	1	
	TOTAL	3 EACH	
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARED)		
	LOCATION	EACH	
	LT. STA. 56+30 TO LT. STA. 56+55	1	
	TOTAL	1 EACH	
63200305	STEEL PLATE BEAM GUARDRAIL REMOVAL		
	LOCATION	FOOT	
	RT. STA. 55+55 TO RT. STA. 56+72	117	
	LT. STA. 55+83 TO LT. STA. 56+73	90	
	RT. STA. 57+05 TO RT. STA. 57+96	91	
	LT. STA. 57+06 TO LT. STA. 58+22	116	
	TOTAL	414 FOOT	
78001100	PAINT PAVEMENT MARKINGS - LETTERS AND SYMBOLS		
	LOCATION	SQ. FT.	
	LT. STA. 56+39 (RT TURN ARROW)	15.6	
	LT. STA. 56+03 (RT TURN ARROW)	15.6	
	LT. STA. 56+39 (STRAIGHT ARROW)	11.5	
	LT. STA. 58+03 (STRAIGHT ARROW)	11.5	
	TOTAL	54.2 SQ. FT.	
78001110	PAINT PAVEMENT MARKING - LINE 4" YELLOW		
	LOCATION	FOOT	
	STA. 53+45 - STA. 59+89 (SKIP DASH)	136	
	STA. 58+89 - STA. 64+12 (SKIP DASH)	131	
	STA. 58+89 - STA. 66+00	711	
	STA. 64+12 - STA. 66+00	188	
	STA. 250+98 - STA. 252+19	121	
	STA. 250+98 - STA. 252+19	121	
	TOTAL	1408 FOOT	
78001110	PAINT PAVEMENT MARKING - LINE 4" WHITE		
	LOCATION	FOOT	
	LT. STA. 53+45 - RT. STA. 250+98	225	
	LT. STA. 250+98 - LT. STA. 66+00	1189	
	RT. STA. 53+45 - RT. STA. 101+00	1066	
	LT. STA. 101+00 - RT. STA. 66+00	325	
	LT. STA. 54+81 (ISLAND)	17	
	LT. STA. 55+14 (ISLAND)	21	
	RT. STA. 63+39 (ISLAND)	17	
	TOTAL	2860 FOOT	
78001140	PAINT PAVEMENT MARKING - LINE 8" WHITE		
	LOCATION	FOOT	
	LT. STA. 55+42 - LT. STA. 58+54	313	
	LT. STA. 58+54 - LT. STA. 61+19 (SKIP DASH)	66	
	LT. STA. 54+81 (ISLAND)	92	
	LT. STA. 55+14 (ISLAND)	187	
	RT. STA. 63+39 (ISLAND)	96	
	TOTAL	754 FOOT	
78001150	PAINT PAVEMENT MARKING - LINE 12" WHITE		
	LOCATION	FOOT	
	LT. STA. 54+81 (ISLAND)	12	
	LT. STA. 55+14 (ISLAND)	19	
	RT. STA. 63+39 (ISLAND)	12	
	TOTAL	43 FOOT	
78001180	PAINT PAVEMENT MARKING - LINE 24" WHITE		
	LOCATION	FOOT	
	RT. STA. 252+19	12	
	RT. STA. 252+07	27	
	RT. STA. 100+32	12	
	RT. STA. 100+43	27	
	TOTAL	78 FOOT	

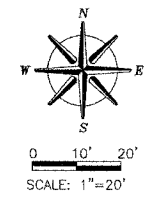


BRIDGE OMISSION STA. 56+68.25 TO STA. 57+11.75

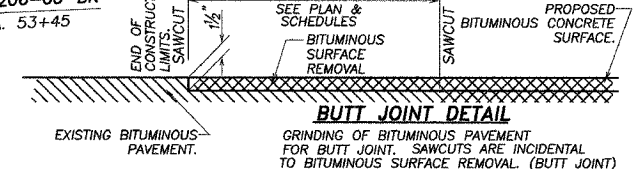
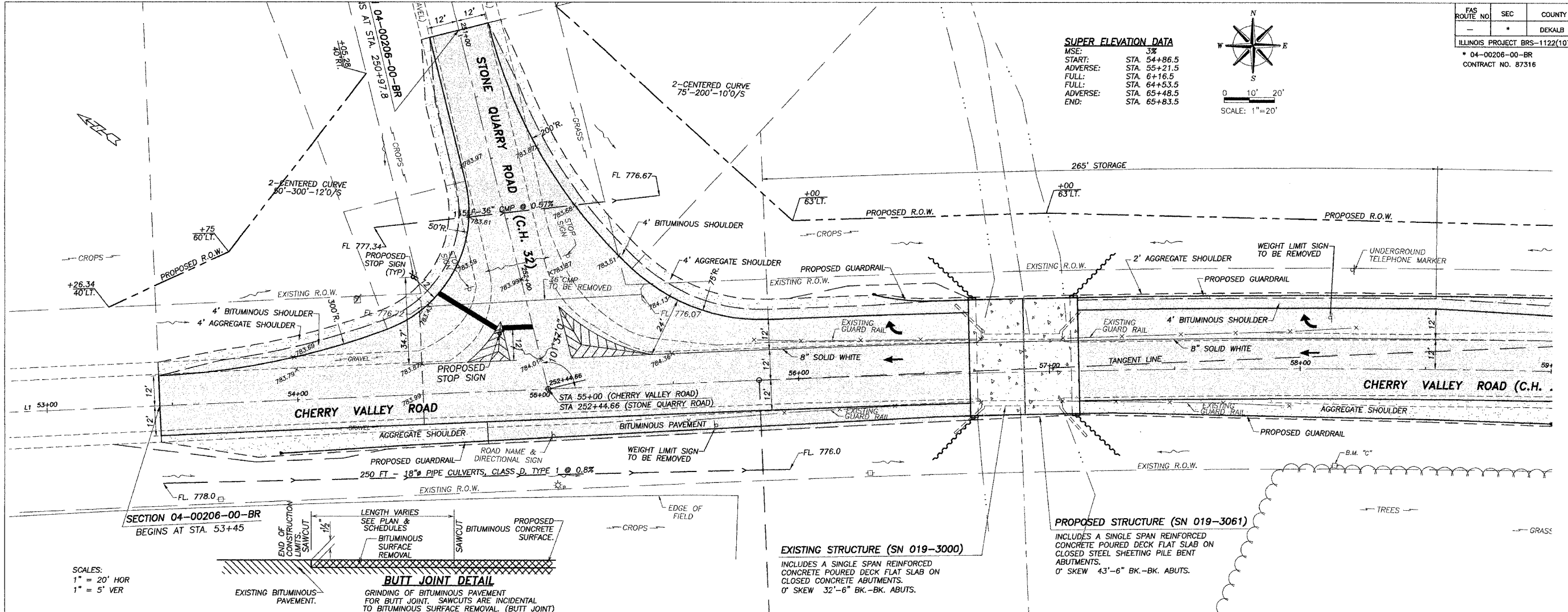
SCHEDULE OF QUANTITIES TYPICAL SECTIONS SECTION 04-00206-00-BR CHERRY VALLEY ROAD DEKALB COUNTY

FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
04-00206-00-BR	*	DEKALB	21	4

ILLINOIS PROJECT BRS-1122(107)
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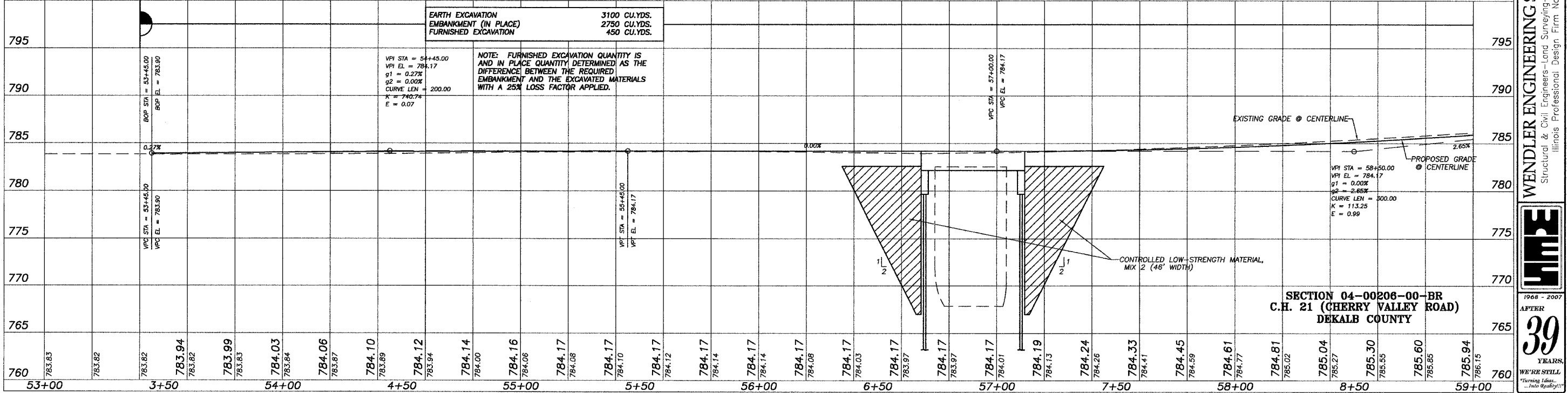


SUPER ELEVATION DATA
 MSE: 3%
 START: STA. 54+86.5
 ADVERSE: STA. 55+21.5
 FULL: STA. 6+16.5
 FULL: STA. 64+53.5
 ADVERSE: STA. 65+48.5
 END: STA. 65+83.5



EXISTING STRUCTURE (SN 019-3000)
 INCLUDES A SINGLE SPAN REINFORCED CONCRETE POURED DECK FLAT SLAB ON CLOSED CONCRETE ABUTMENTS.
 0' SKEW 32'-6" BK.-BK. ABUTS.

PROPOSED STRUCTURE (SN 019-3061)
 INCLUDES A SINGLE SPAN REINFORCED CONCRETE POURED DECK FLAT SLAB ON CLOSED STEEL SHEETING PILE BENT ABUTMENTS.
 0' SKEW 43'-6" BK.-BK. ABUTS.



NOTE: FURNISHED EXCAVATION QUANTITY IS AND IN PLACE QUANTITY DETERMINED AS THE DIFFERENCE BETWEEN THE REQUIRED EMBANKMENT AND THE EXCAVATED MATERIALS WITH A 25% LOSS FACTOR APPLIED.

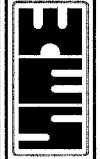
VPI STA = 54+45.00
 VPI EL = 784.17
 g1 = 0.27%
 g2 = 0.00%
 CURVE LEN = 200.00
 K = 740.74
 E = 0.07

VPI STA = 58+50.00
 VPI EL = 784.17
 g1 = 0.00%
 g2 = 2.65%
 CURVE LEN = 300.00
 K = 113.25
 E = 0.99

**SECTION 04-00206-00-BR
 C.H. 21 (CHERRY VALLEY ROAD)
 DEKALB COUNTY**

DATE: _____
 REVISION: _____
 698 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-286-7261
 28 E. MARION - SUITE 3 - PRINCETON, IL 61356 - 815-879-4731
 1778 WEST STATE ST. - SYCAMORE, IL 60178 - 815-895-5008
 804 FREEPORT RD. - STERLING, IL 61081 - (815) 626-4428
 E-MAIL: info@wendlerengineering.com

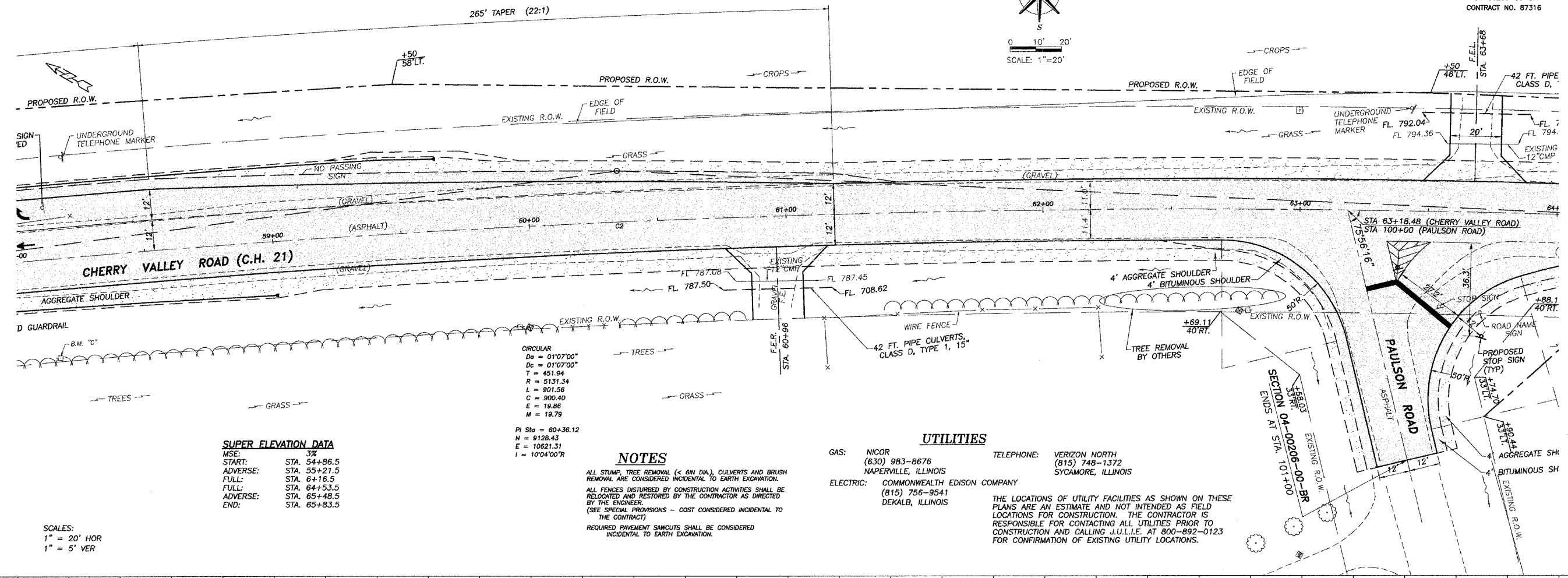
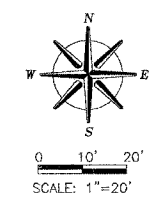
WENDLER ENGINEERING SERVICES, INC.
 Structural & Civil Engineers - Land Surveying - Environmental Services
 Illinois Professional Design Firm No. 184-000848



1968 - 2007
 AFTER
39
 YEARS
 WE'RE STILL
 "Turning Ideas... Into Reality!"

FAS ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
-	-	DEKALB	21	5

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SUPER ELEVATION DATA

MSE:	3%
START:	STA. 54+86.5
ADVERSE:	STA. 55+21.5
FULL:	STA. 64+16.5
FULL:	STA. 64+53.5
ADVERSE:	STA. 65+48.5
END:	STA. 65+83.5

CIRCULAR

Da	= 01'07'00"
Dc	= 01'07'00"
T	= 451.94
R	= 5131.34
L	= 901.56
C	= 900.40
E	= 19.86
M	= 19.79
PI Sta	= 60+36.12
N	= 9128.43
E	= 10621.31
I	= 10'04'00\"/>

NOTES

ALL STUMP, TREE REMOVAL (< 8IN DIA.), CULVERTS AND BRUSH REMOVAL ARE CONSIDERED INCIDENTAL TO EARTH EXCAVATION.
 ALL FENCES DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RELOCATED AND RESTORED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
 (SEE SPECIAL PROVISIONS - COST CONSIDERED INCIDENTAL TO THE CONTRACT)
 REQUIRED PAVEMENT SAWCUTS SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION.

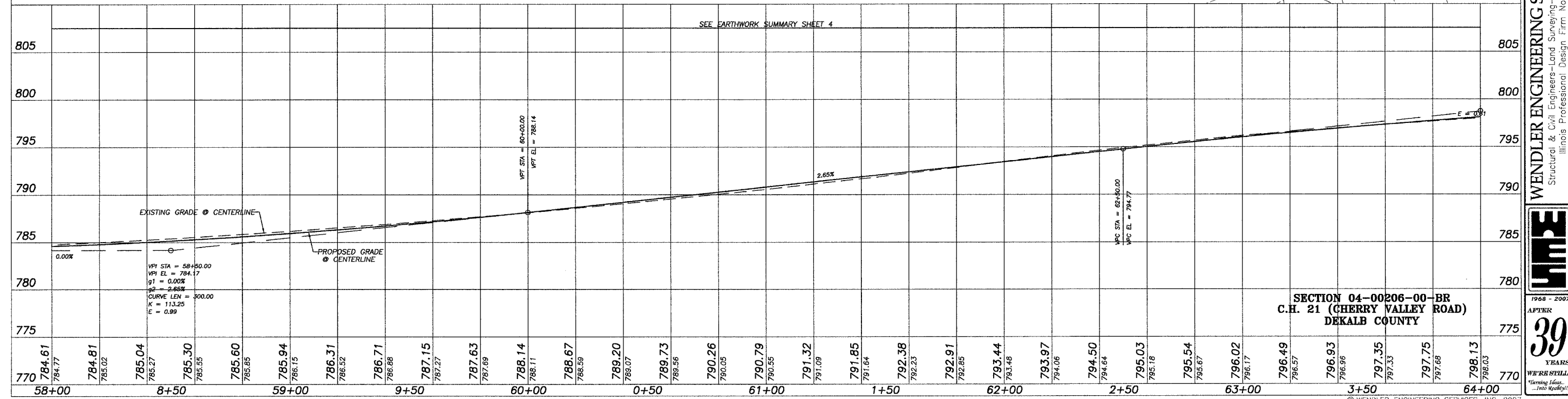
UTILITIES

GAS: NICOR (630) 983-8676 NAPERVILLE, ILLINOIS
 TELEPHONE: VERIZON NORTH (815) 748-1372 SYCAMORE, ILLINOIS
 ELECTRIC: COMMONWEALTH EDISON COMPANY (815) 756-9541 DEKALB, ILLINOIS

THE LOCATIONS OF UTILITY FACILITIES AS SHOWN ON THESE PLANS ARE AN ESTIMATE AND NOT INTENDED AS FIELD LOCATIONS FOR CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES PRIOR TO CONSTRUCTION AND CALLING J.U.L.I.E. AT 800-892-0123 FOR CONFIRMATION OF EXISTING UTILITY LOCATIONS.

SCALES:
 1" = 20' HOR
 1" = 5' VER

SEE EARTHWORK SUMMARY SHEET 4



SECTION 04-00206-00-BR
C.H. 21 (CHERRY VALLEY ROAD)
DEKALB COUNTY

695 TIMBER CREEK ROAD - P.O. BOX 488 - DIXON, IL 61021 - 815-288-2261
 28 E. MARION - SUITE 3 - PRINCETON, IL 61356 - 815-879-4731
 1778 WEST STATE ST. - STAMFORD, IL 60176 - 815-885-5006
 804 FREELPORT RD. - STERLING, IL 61081 - (815) 626-4428
 E-MAIL: info@wendlereng.com

WENDLER ENGINEERING SERVICES, INC.
 Structural & Civil Engineers-Land Surveying-Environmental Services
 Illinois Professional Design Firm No. 184-000848

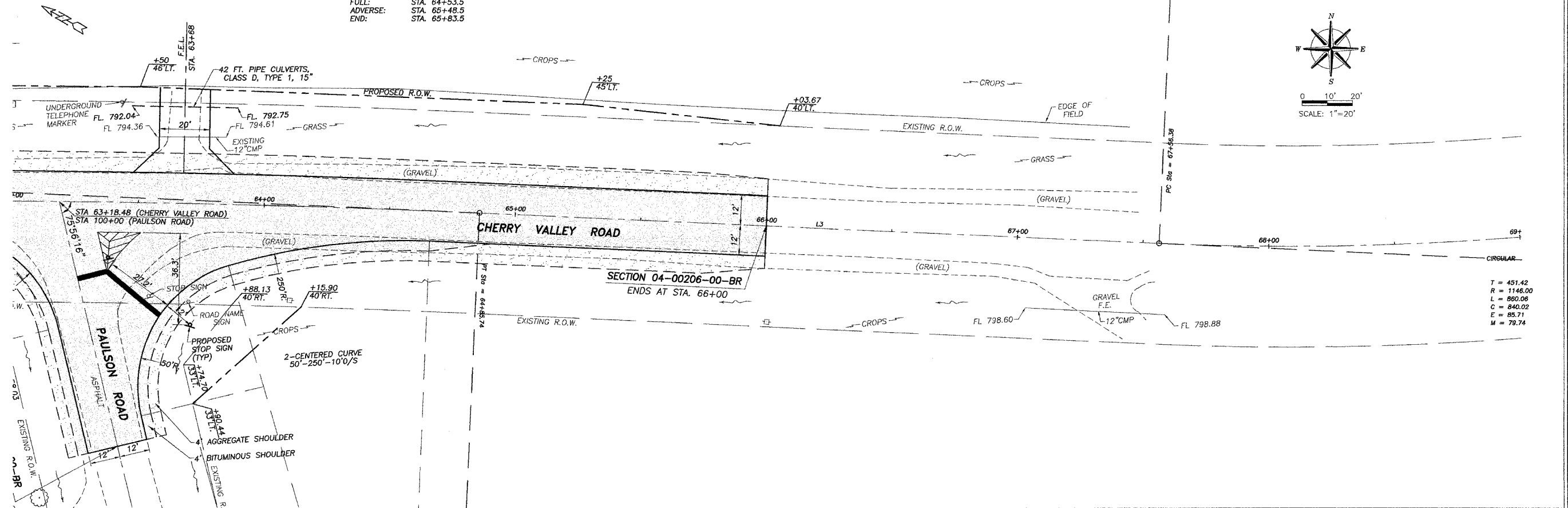
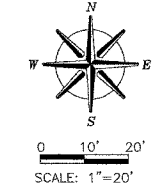
1968 - 2007
WME
 39 YEARS
 WE'RE STILL
 ...Into the Future!

© WENDLER ENGINEERING SERVICES, INC. 2007

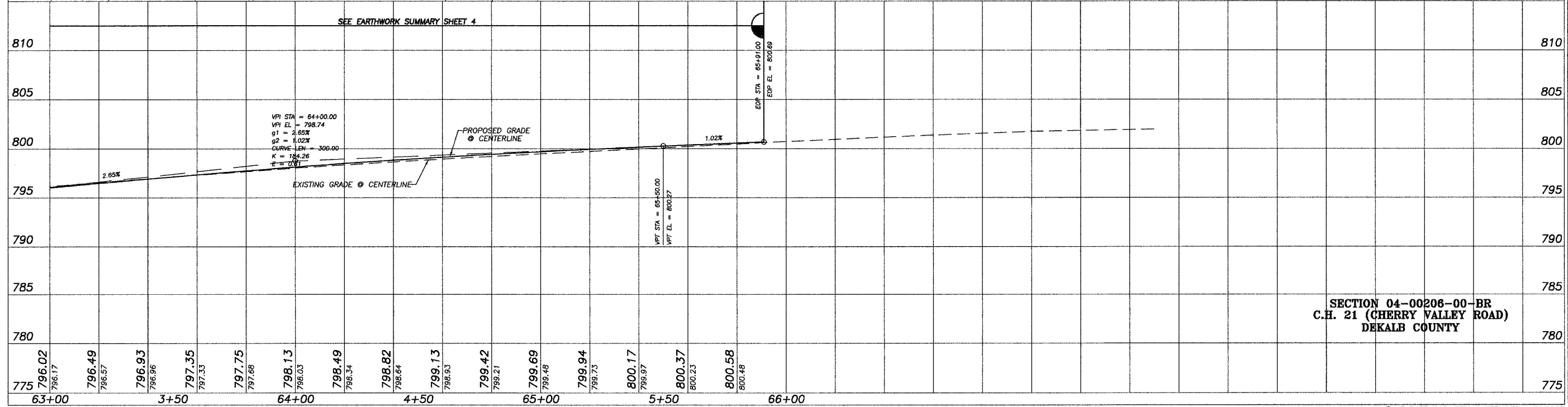
FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	DEKALB	21	6

ILLINOIS PROJECT BRS-1122(107)
 * 04-00206-00-BR
 CONTRACT NO. 87316

SUPER ELEVATION DATA
 MSE: 3%
 START: STA. 54+86.5
 ADVERSE: STA. 55+21.5
 FULL: STA. 6+16.5
 FULL: STA. 64+53.5
 ADVERSE: STA. 65+48.5
 END: STA. 65+83.5



T = 451.42
 R = 1146.00
 L = 860.06
 C = 840.02
 E = 85.71
 M = 79.74



SEE EARTHWORK SUMMARY SHEET 4

SECTION 04-00206-00-BR
 C.H. 21 (CHERRY VALLEY ROAD)
 DEKALB COUNTY

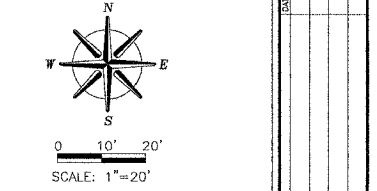
688 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-288-2261
 28 WILSON AVENUE - SUITE 3 - ST. CHARLES, IL 61556 - 815-679-4731
 1176 WILSON AVENUE - SUITE 31 - ST. CHARLES, IL 61556 - 815-685-3008
 604 PREPARED - ST. CHARLES, IL 61556 - 815-685-3008
 E-MAIL: info@wendlerengineering.com

WENDLER ENGINEERING SERVICES, INC.
 Structural & Civil Engineers - Land Surveying - Environmental Services
 Illinois Professional Design Firm No. 184-000848

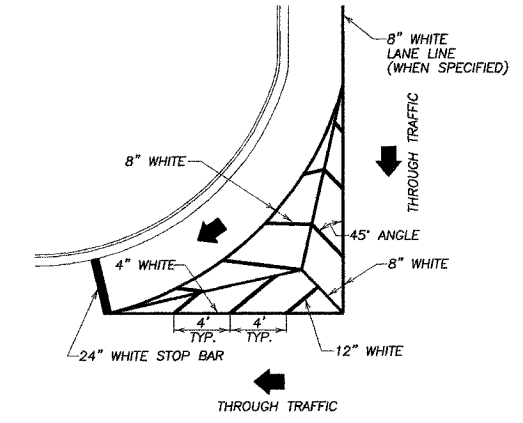
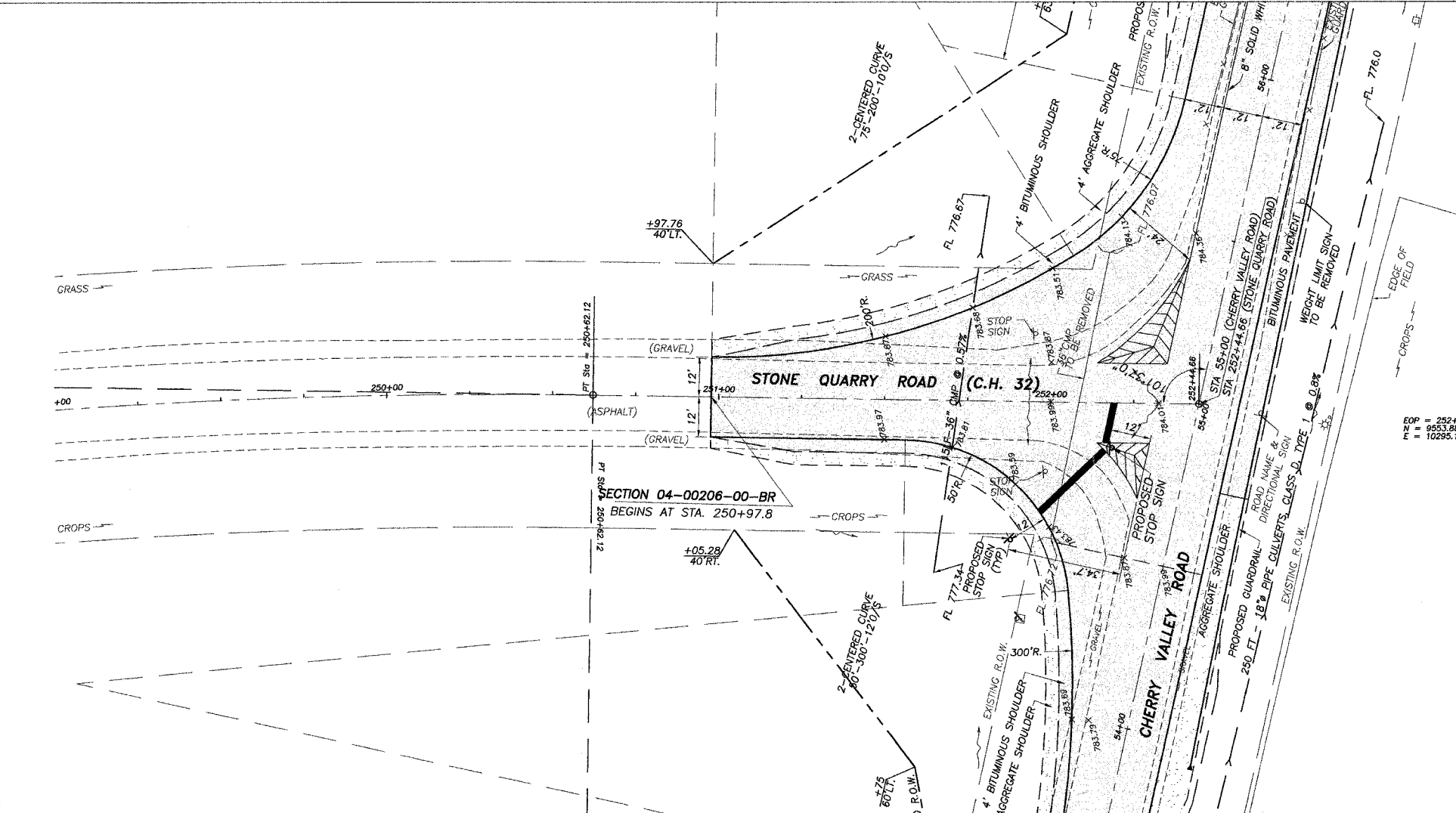
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FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
—	*	DEKALB	21	7

ILLINOIS PROJECT BRS-1122(107)
 * 04-00206-00-BR
 CONTRACT NO. 87316



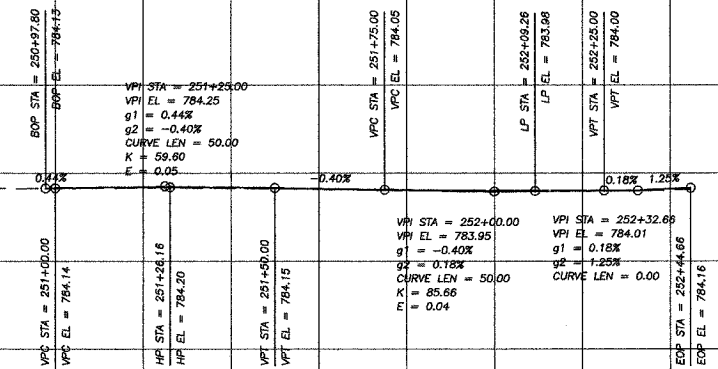
EXISTING STRUCTURE (SW)
 INCLUDES A SINGLE SPAN REINFORCED CONCRETE PIURED DECK, FLAT SLAB ON 0° SKEW 32'-6" BK.-BK. ABUTS.



TYPICAL MARKING FOR PAINTED ISLANDS

Station	795	790	785	780	775	770	765	760
249+00								
9+50								
250+00								
0+50								
251+00								
1+50								
252+00								
2+50								
253+00								
3+50								
254+00								
4+50								
255+00								

EARTH EXCAVATION 350 CU.YDS.
 EMBANKMENT (IN PLACE) 780 CU.YDS.
 FURNISHED EXCAVATION 500 CU.YDS.



SECTION 04-00206-00
C.H. 32 (STONE QUARRY ROAD)
DEKALB COUNTY

688 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-288-2261
 28 E. WARRON - SUITE 3 - PRINCETON, IL 61356 - 815-879-4731
 1770 WEST STATE ST. - STICKLUM, IL 60778 - 815-885-3008
 804 PREPPER ROAD - STERLING, IL 61081 - (815) 626-4425
 E-MAIL: info@wendlerengineering.com

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 Illinois Professional Design Firm No. 184-000848

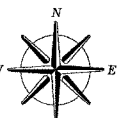


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FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	DEKALB	21	8

ILLINOIS PROJECT BRS-1122(107)

* 04-00206-00-BR
CONTRACT NO. 87316



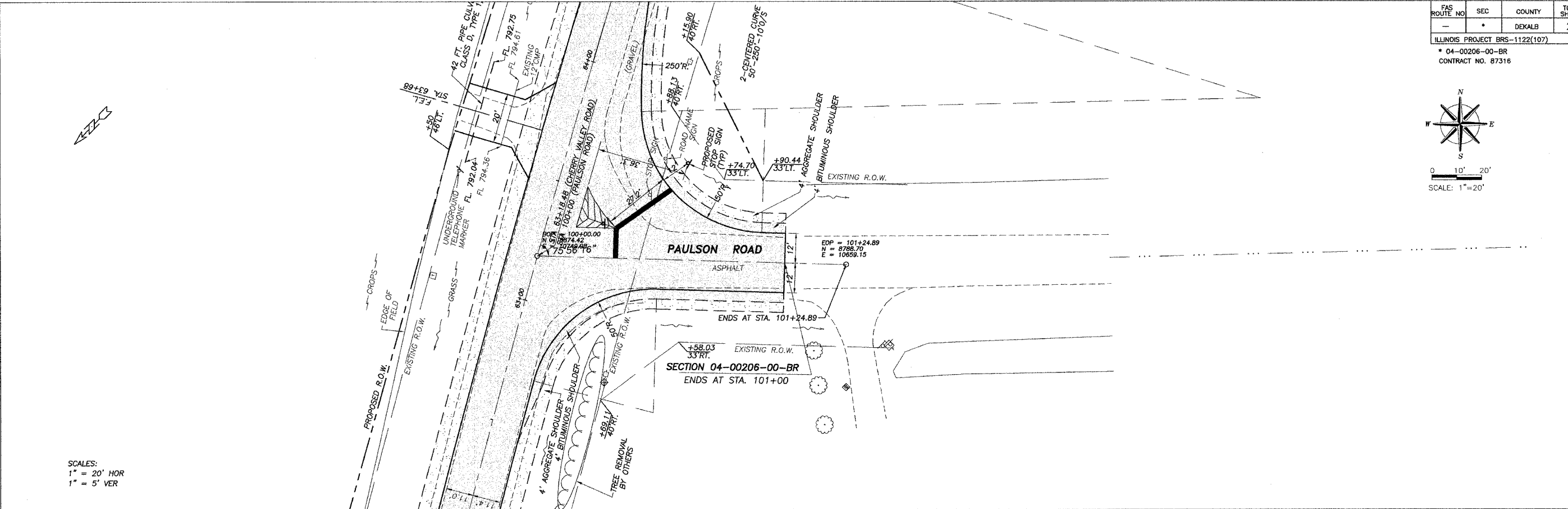
0 10' 20'
SCALE: 1"=20'

698 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-288-2281
28 E. MARION - SUITE 3 - PRINCETON, IL 61356 - 815-879-4731
1778 WEST STATE ST. - SYCAMORE, IL 60178 - 815-895-8008
804 FREEMONT RD. - STERLING, IL 61081 - (815) 626-4428
E-MAIL: info@wendler.net

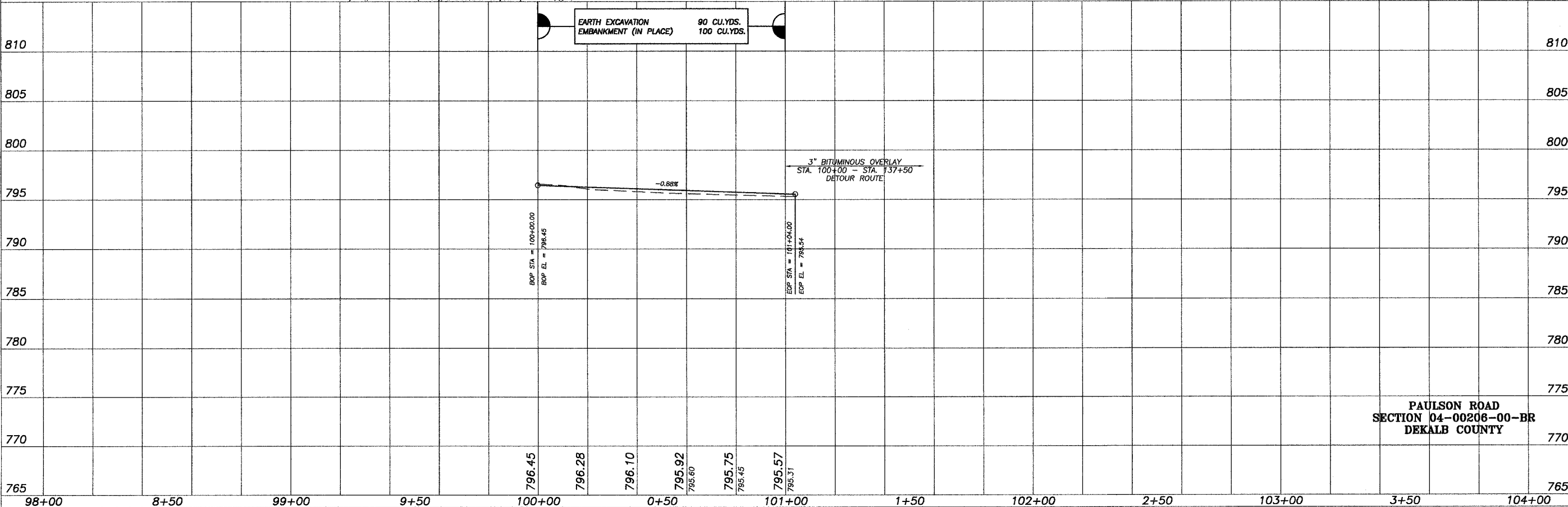
WENDLER ENGINEERING SERVICES, INC.
Structural & Civil Engineers—Land Surveying—Environmental Services
Illinois Professional Design Firm No. 184-000848



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AFTER
39
YEARS
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...Into Reality!"



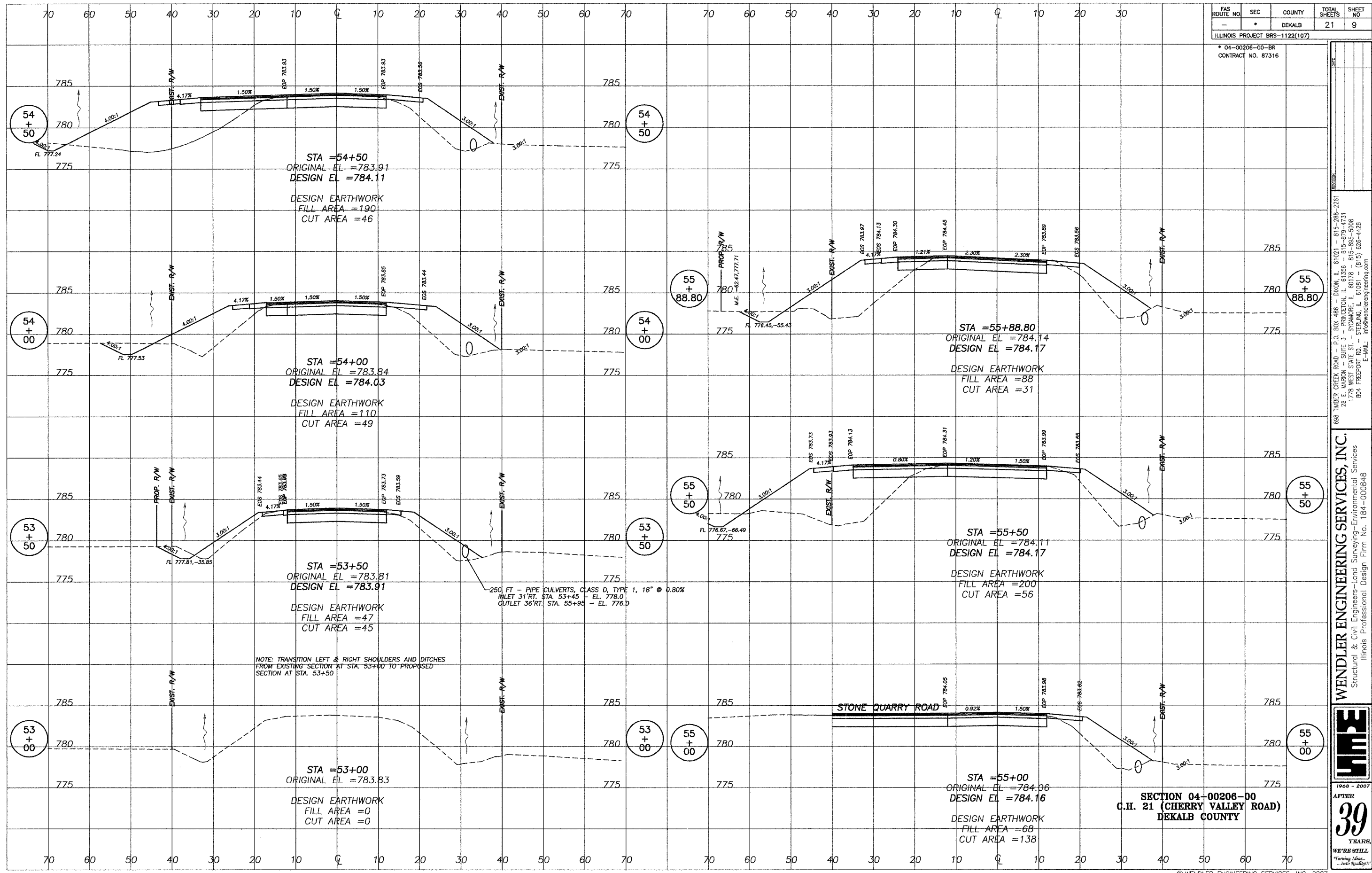
SCALES:
1" = 20' HOR
1" = 5' VER



PAULSON ROAD
SECTION 04-00206-00-BR
DEKALB COUNTY

FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	DEKALB	21	9

ILLINOIS PROJECT BRS-1122(107)
 * 04-00206-00-BR
 CONTRACT NO. 87316



NOTE: TRANSITION LEFT & RIGHT SHOULDERS AND DITCHES FROM EXISTING SECTION AT STA. 53+00 TO PROPOSED SECTION AT STA. 53+50

250 FT - PIPE CULVERTS, CLASS D, TYPE 1, 18" @ 0.80%
 INLET 31' RT. STA. 53+45 - EL. 778.0
 OUTLET 36' RT. STA. 55+95 - EL. 776.0

STONE QUARRY ROAD

SECTION 04-00206-00
 C.H. 21 (CHERRY VALLEY ROAD)
 DEKALB COUNTY

608 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-299-2261
 28 E. WAGON - SUITE 3 - PRINCETON, IL 61356 - 815-679-4731
 1778 WEST STATE ST. - SYCAMORE, IL 60178 - 815-885-5008
 804 FREEMONT RD. - STERLING, IL 61081 - (815) 626-4428
 E-MAIL: info@wendlerengineering.com

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 Structural & Civil Engineers - Land Surveying - Environmental Services
 Illinois Professional Design Firm No. 184-000848

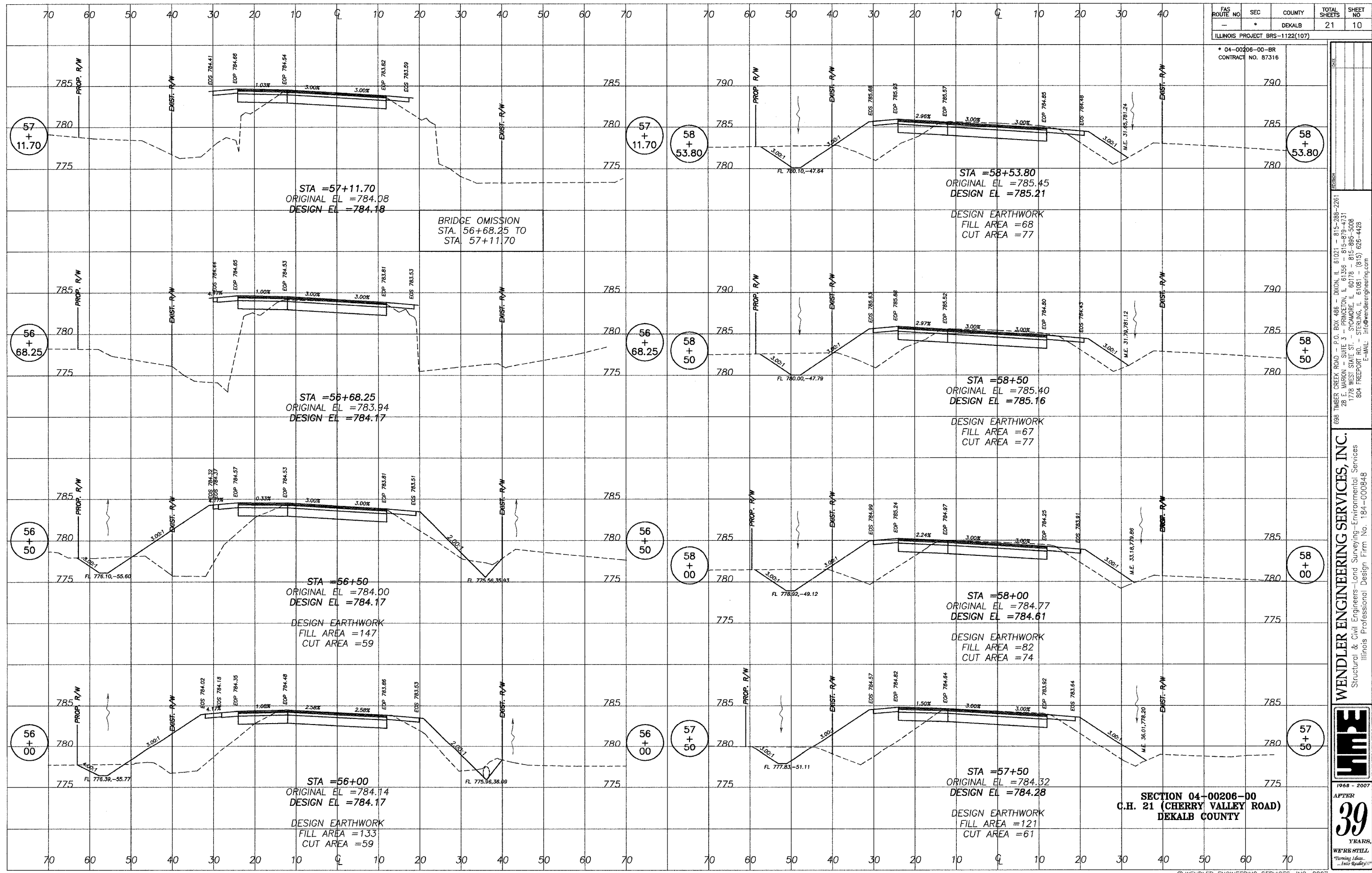


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FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	DEKALB	21	10

ILLINOIS PROJECT BRS-1122(107)

* 04-00206-00-BR
CONTRACT NO. 87316



698 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-289-2261
28 E. WAGON - SUITE 3 - PRINCETON, IL 61356 - 815-879-4731
1778 WEST STATE ST. - SYCAMORE, IL 60178 - 815-895-5008
804 FREEDPORT RD. - STERLING, IL 61081 - (815) 626-4428
E-MAIL: info@wendlerengineering.com

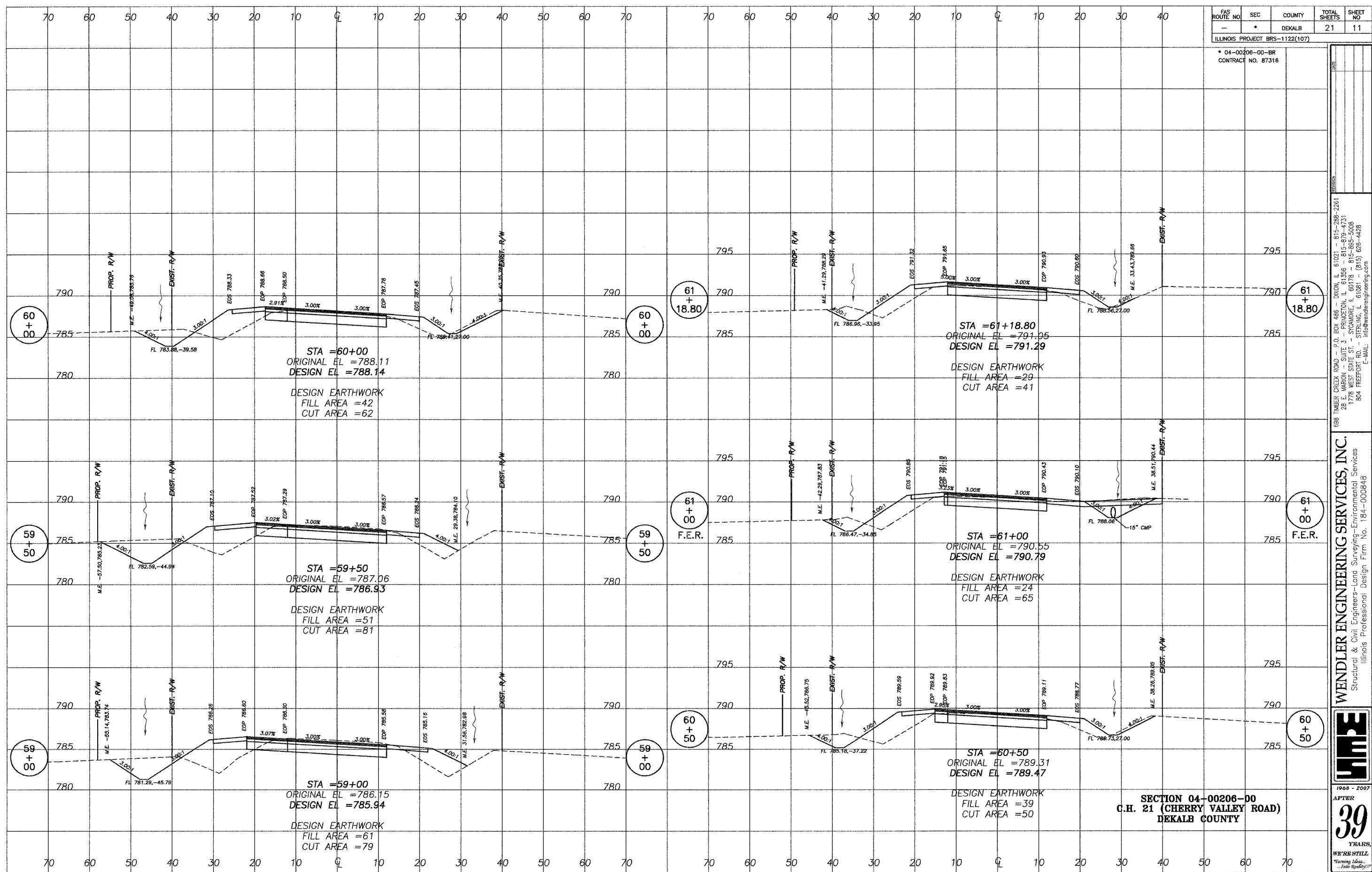
WENDLER ENGINEERING SERVICES, INC.
Structural & Civil Engineers—Land Surveying—Environmental Services
Illinois Professional Design Firm No. 184-000848

1968 - 2007
39 YEARS
WE'RE STILL Turning Ideas Into Reality!

**SECTION 04-00206-00
C.H. 21 (CHERRY VALLEY ROAD)
DEKALB COUNTY**

FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	DEKALB	21	11
ILLINOIS PROJECT BRS-1122(107)				

* 04-00206-00-BR
CONTRACT NO. 87316



**SECTION 04-00206-00
C.H. 21 (CHERRY VALLEY ROAD)
DEKALB COUNTY**

698 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-298-2261
 28 E. MARION - SUITE 3 - PRINCETON, IL 61356 - 815-879-4731
 1778 WEST STATE ST. - SYCAMORE, IL 60178 - 815-885-5008
 804 FREEPORT RD. - STERLING, IL 61081 - (815) 626-4428
 E-MAIL: info@wendlerengineering.com

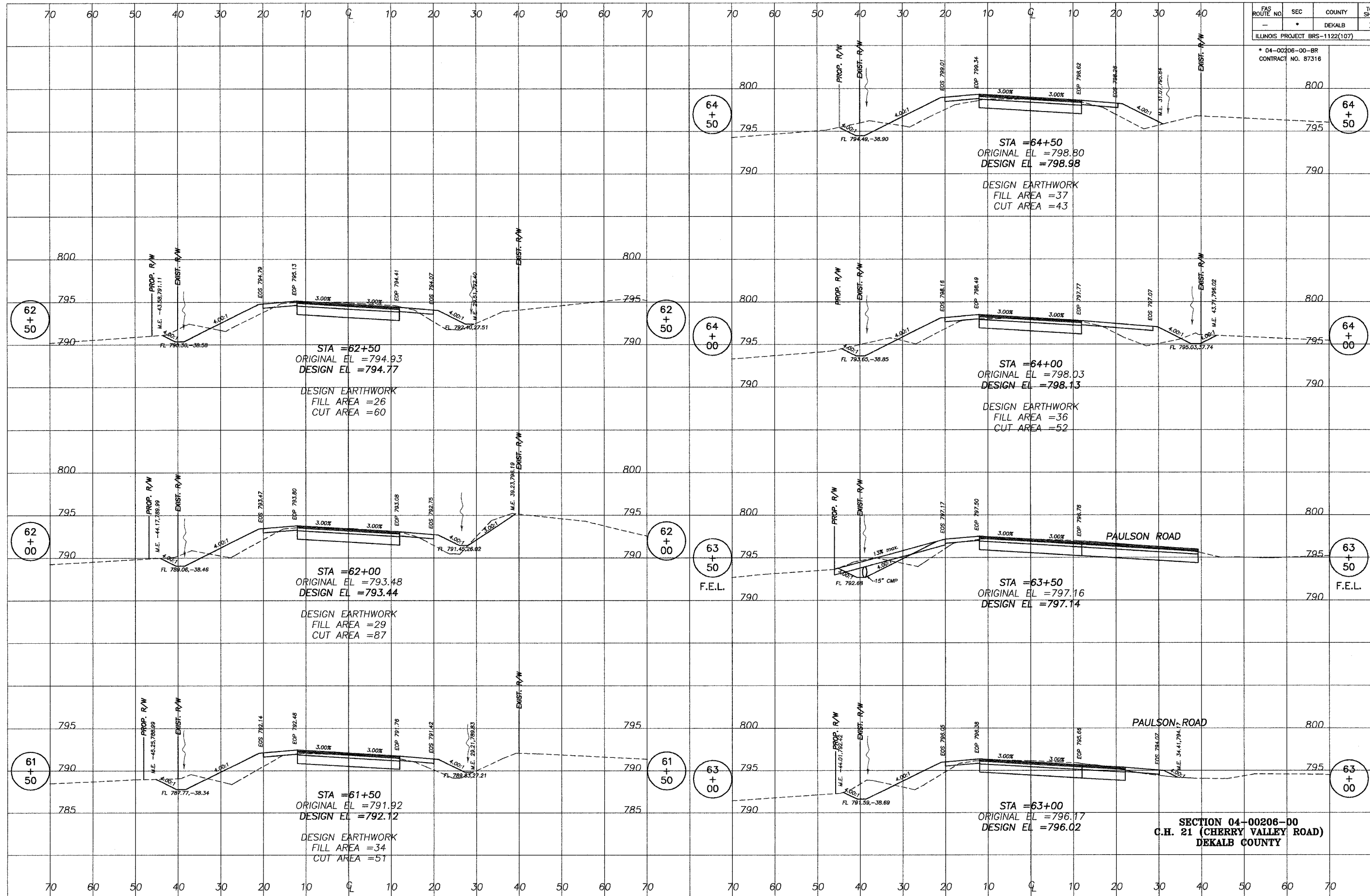
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 Structural & Civil Engineers-Land Surveying-Environmental Services
 Illinois Professional Design Firm No. 184-000848



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 Into Reality!"

FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	DEKALB	21	12

ILLINOIS PROJECT BRS-1122(107)
 * 04-00206-00-BR
 CONTRACT NO. 87316



**SECTION 04-00206-00
 C.H. 21 (CHERRY VALLEY ROAD)
 DEKALB COUNTY**

698 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-298-2261
 28 E. MARION - SUITE 3 - PRINCETON, IL 61356 - 815-879-4731
 1778 WEST STATE ST. - SYCAMORE, IL 60178 - 815-895-5008
 804 FREEMONT RD. - STERLING, IL 61081 - (815) 626-4428
 E-MAIL: info@wendlerengineering.com

WENDLER ENGINEERING SERVICES, INC.
 Structural & Civil Engineers - Land Surveying - Environmental Services
 Illinois Professional Design Firm No. 184-000848



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 YEARS,
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FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	DEKALB	21	13

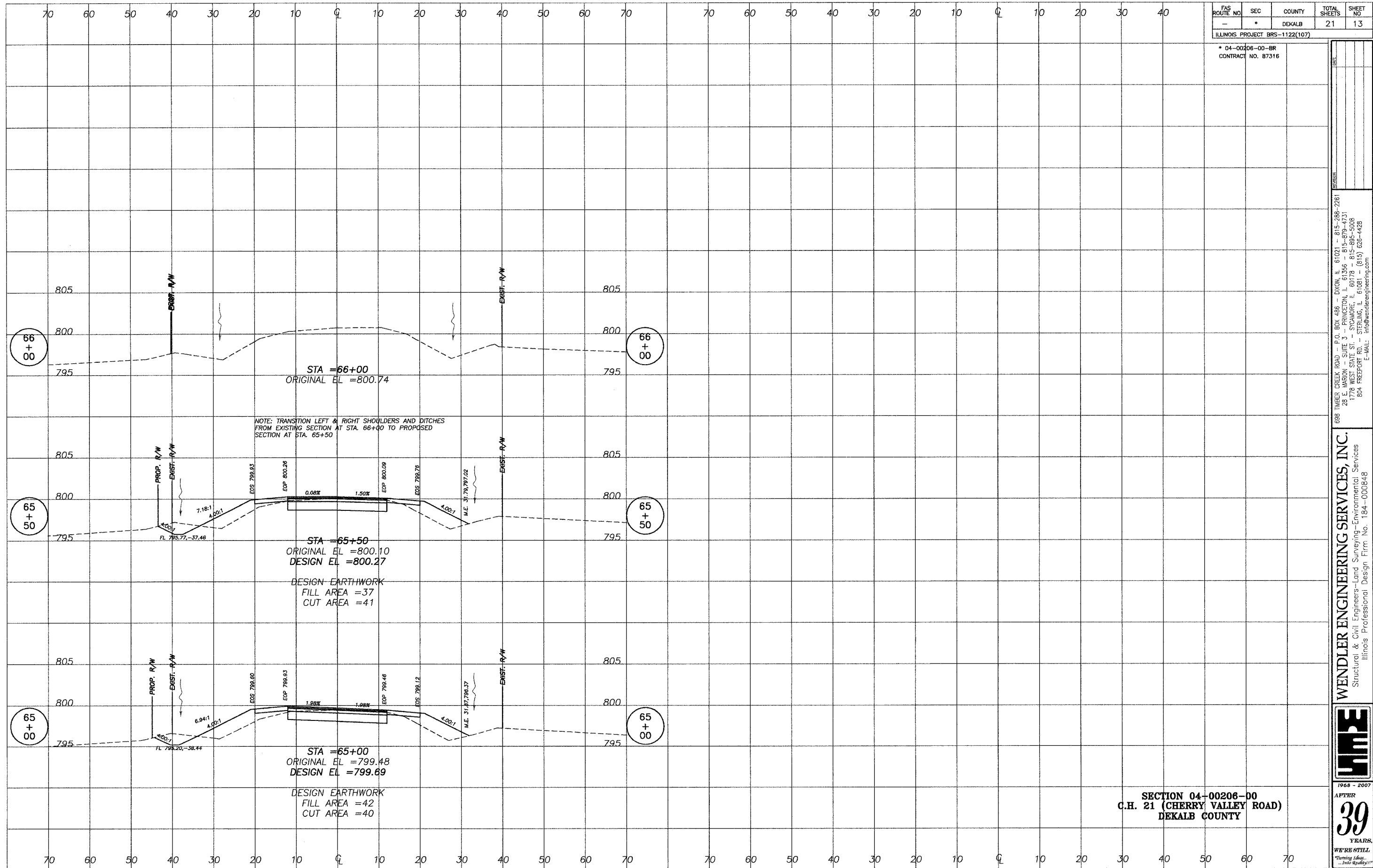
ILLINOIS PROJECT BRS-1122(107)
 * 04-00206-00-BR
 CONTRACT NO. 87316

698 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-268-2261
 28 E. MARION - SUITE 3 - PRINCETON, IL 61356 - 815-879-4731
 1778 WEST STATE ST. - SYCAMORE, IL 60178 - 815-886-5008
 804 FREEMONT RD. - STERLING, IL 61081 - (815) 626-4428
 E-MAIL: info@wendlerengineering.com

WENDLER ENGINEERING SERVICES, INC.
 Structural & Civil Engineers - Land Surveying - Environmental Services
 Illinois Professional Design Firm No. 184-000848



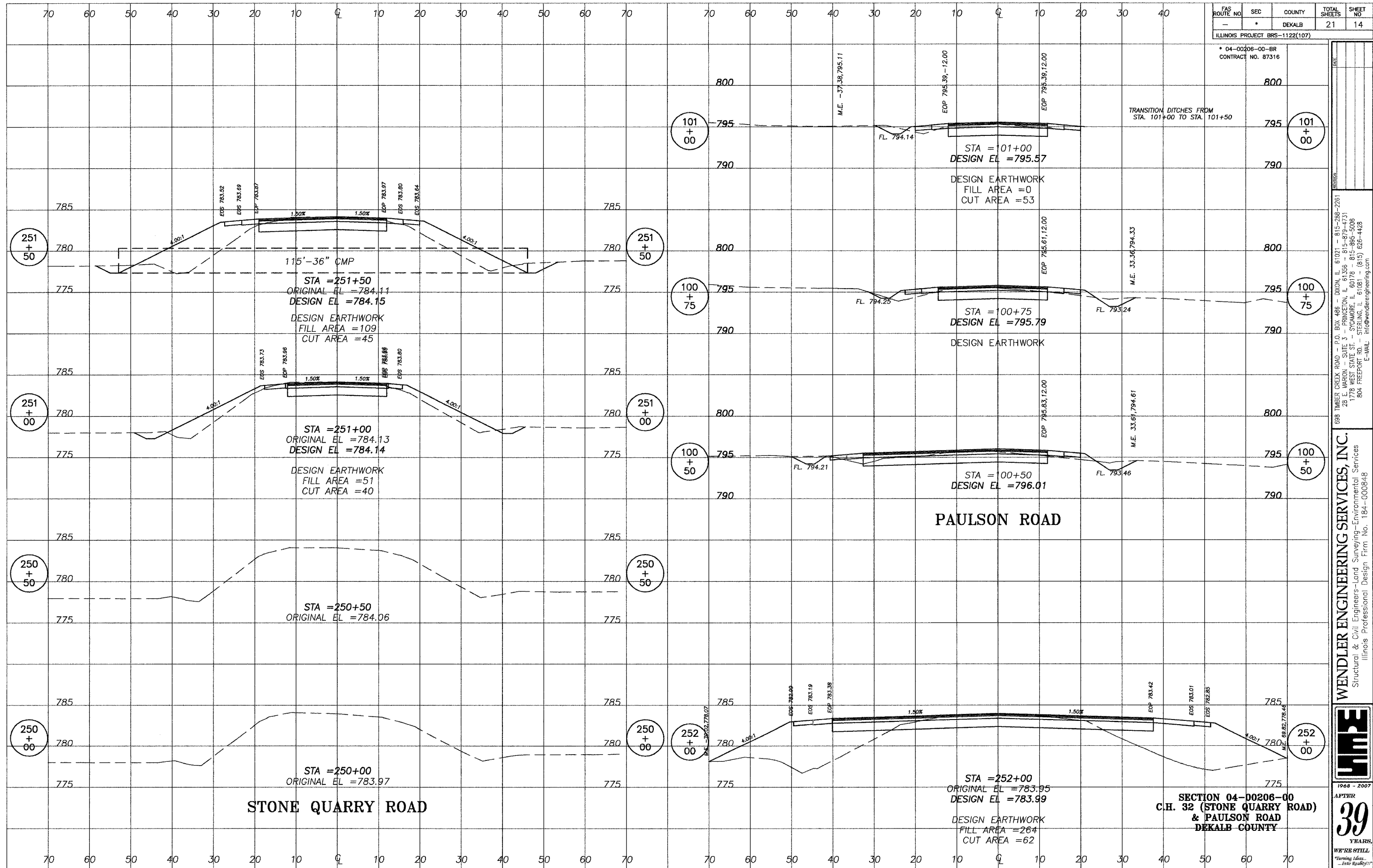
1968 - 2007
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39
 YEARS,
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SECTION 04-00206-00
 C.H. 21 (CHERRY VALLEY ROAD)
 DEKALB COUNTY

FAS ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	DEKALB	21	14
ILLINOIS PROJECT BRS-1122(107)				

* 04-00206-00-BR
CONTRACT NO. 87316



698 TIMBER CREEK ROAD - P.O. BOX 486 - DIXON, IL 61021 - 815-298-2261
28 E. MARION - SUITE 3 - PRINCETON, IL 61356 - 815-879-4731
1778 WEST STATE ST. - SYCAMORE, IL 60178 - 815-895-5008
804 FREEMONT RD. - STEELING, IL 61081 - (815) 626-4428
E-MAIL: info@wendlerengineering.com

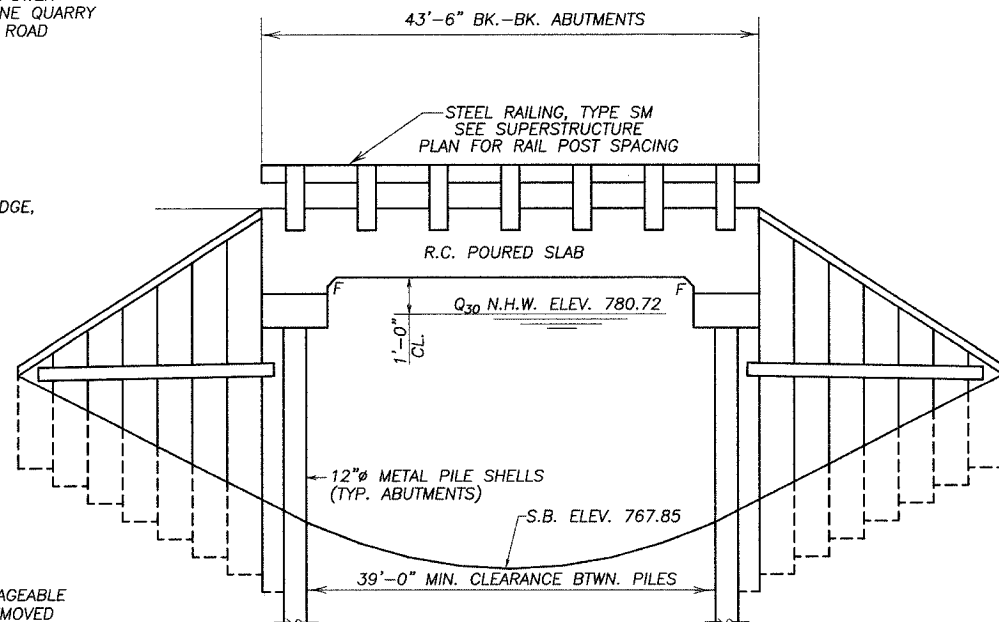
WENDLER ENGINEERING SERVICES, INC.
Structural & Civil Engineers-Land Surveying-Environmental Services
Illinois Professional Design Firm No. 184-000848



B.M. #1 COTTON SPINDEL IN FIRST POWER POLE (±39') WEST OF STONE QUARRY ROAD AND CHERRY VALLEY ROAD INTERSECTION. ELEV. 780.14

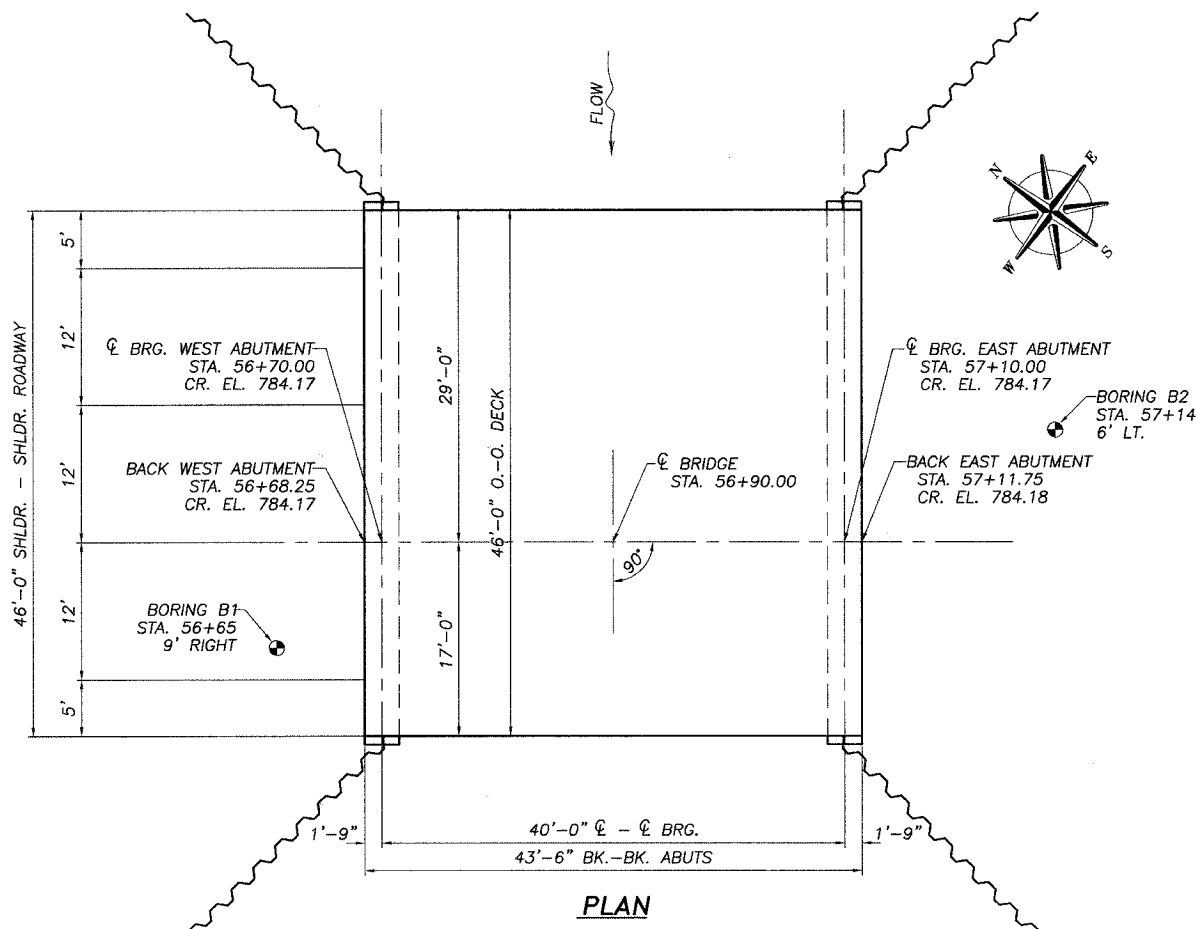
B.M. #2 CHISELED SQUARE TOP OF NORTHEAST WINGWALL OF EXISTING BRIDGE. ELEV. 784.51

B.M. #3 COTTON SPINDEL IN FIRST POWER POLE WEST OF BRIDGE. ELEV. 782.90

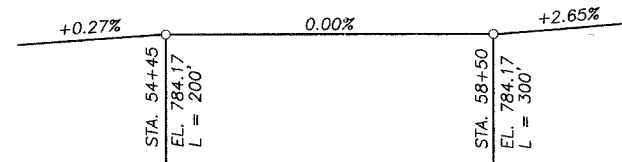


ELEVATION

SALVAGE : ALL ITEMS DEEMED SALVAGEABLE SHALL BE CAREFULLY REMOVED AND STOCKPILED ON THE RIGHT OF WAY FOR THE COUNTY TO PICK UP.



PLAN



GRADE PROFILE

WATERWAY INFORMATION

DRAINAGE AREA= 11.67 SQ.MI.		LOW GRADE ELEV. 783.81 AT STA. 53+50							
FLOOD	FREQ. YR.	Q. C.F.S.	OPENING SQ. FT.		NAT. H.W.E.	HEAD-FT.		HEADWATER EL.	
			EXIST.	PROP.		EXIST.	PROP.	EXIST.	PROP.
DESIGN	30	2912	386	515	780.02	1.41	0.70	781.43	780.72
BASE	100	3850	441	555	780.54	3.46	3.24	784.00	783.78
MAX. CALC.	500	5050	441	555	781.12	2.88	2.88	784.00	784.00

DESIGN STRESSES

f'c = 3500 P.S.I.
 fs = 60,000 P.S.I. (REINFORCEMENT)

DESIGN SPECIFICATIONS 2002 AASHTO
 (ALLOWED FOR 25 P.S.F. FOR FUTURE WEARING SURFACE.)
LOADING HS 20-44

BILL OF MATERIAL

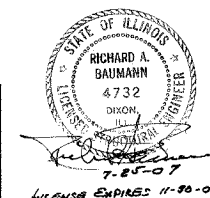
BRIDGE

ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
CONCRETE SUPERSTRUCTURES	CU. YD.	153.5		153.5
CONCRETE STRUCTURES	CU. YD.		25.1	25.1
FURN. AND ERECTING STRUCTURAL STEEL	LBS.	1769	4826	6595
REINFORCEMENT BARS, EPOXY COATED	POUND	20320	3140	23460
PROTECTIVE COAT	SQ. YD.	242		242
NAME PLATES	EACH	1		1
STEEL RAILING TYPE SM	FOOT	87		87
FURNISHING METAL PILE SHELL - 12"Ø	FOOT		583	583
TEST PILE, METAL PILE SHELL - 12"Ø	EACH		1	1
STEEL SHEET PILING	SQ. FT.		3550	3550
HARDWARE	POUND		3084	3084
BRIDGE DECK GROOVING	SQ. YD.	222		222

KINGSBURY CREEK
 BUILT 2007 BY
 DEKALB COUNTY
 SECTION 04-00206-00-BR
 STATION 56+90
 STR. NO. 019-3061 LOADING HS 20-44

LETTERING FOR NAME PLATE

SEE STD. 515001



GENERAL NOTES

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.

PROTECTIVE COAT HAS BEEN INCLUDED FOR THE TOP OF DECK AND THE EAST AND WEST EDGES OF THE DECK TO THE DRIPNOTCH.

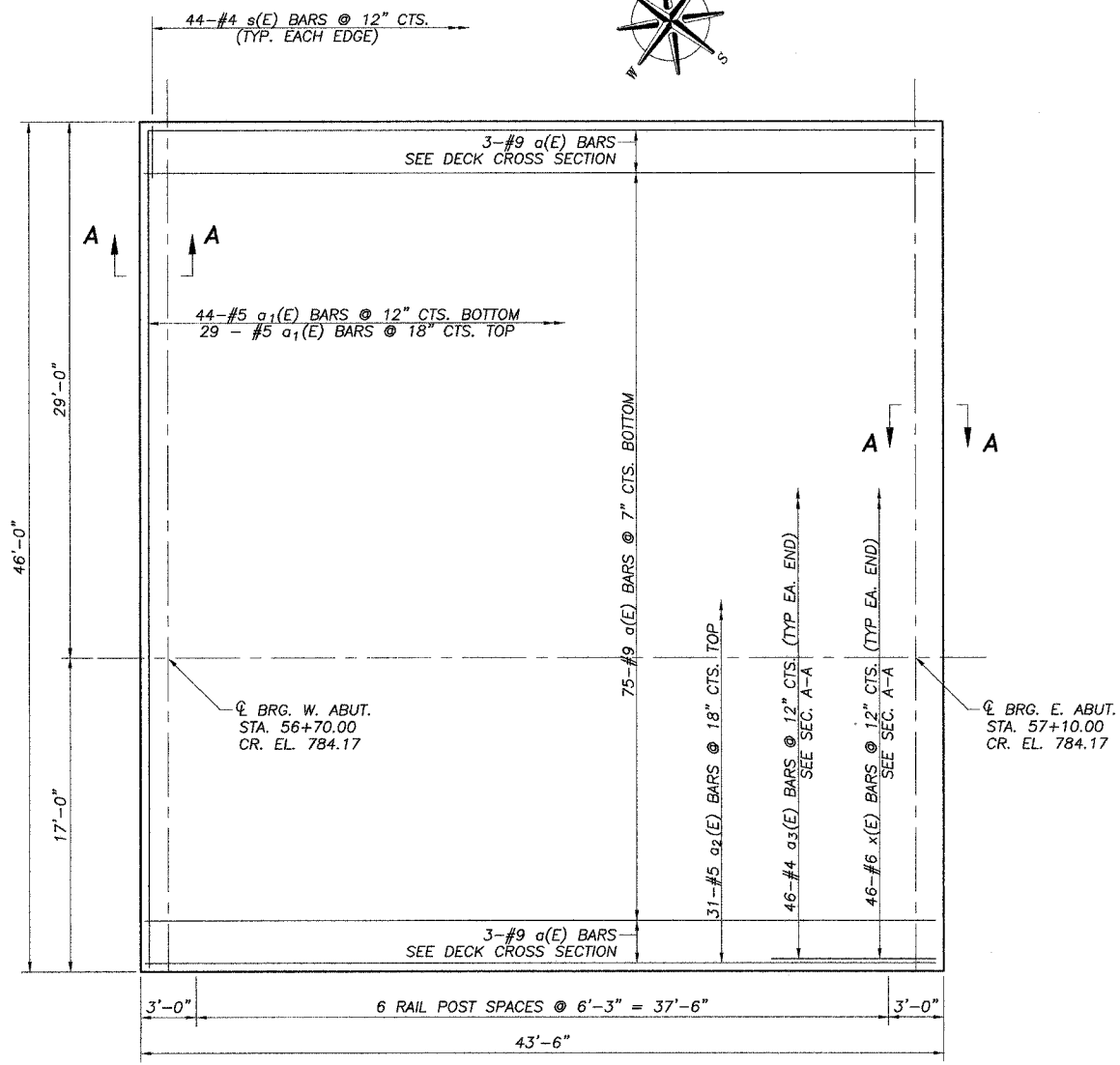
THE 3/4" STRUCTURAL STEEL PLATES AT EACH END OF THE DECK ARE INCLUDED FOR PAYMENT PER POUND OF FURNISHING AND ERECTING STRUCTURAL STEEL. AFTER FABRICATION, ALL SURFACES OF THE STEEL PLATES SHALL BE GIVEN ONE SHOP COAT OF PAINT SPECIFIED FOR STRUCTURAL STEEL.

THE CONTRACTOR SHALL DRIVE ONE 12" METAL PILE SHELL TEST PILE IN A PERMANENT LOCATION AT THE WEST ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

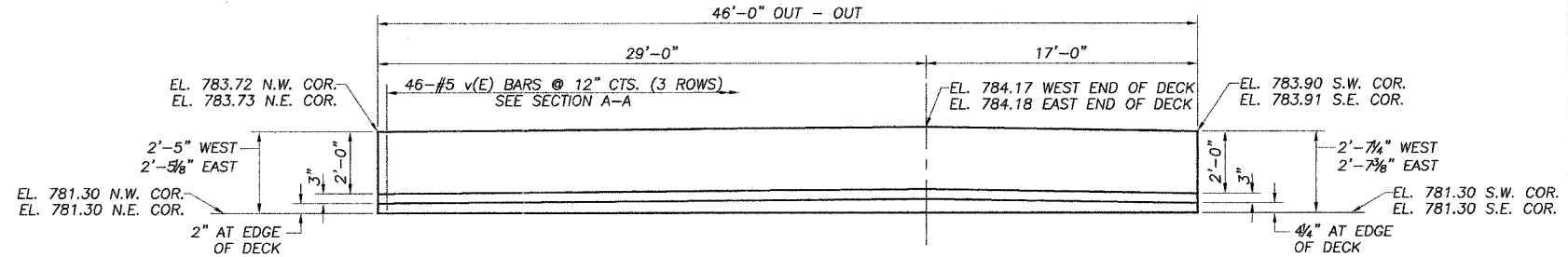
THE CONTRACTOR SHALL MAKE ALLOWANCE FOR THE DEFLECTION OF FORMS, SHRINKAGE AND SETTLEMENT OF FALSEWORK, IN ADDITION TO ALLOWANCE FOR DEAD LOAD DEFLECTION.

GENERAL PLAN AND ELEVATION
SECTION 04-00206-00-BR
CHERRY VALLEY ROAD
DEKALB COUNTY
SN 019-3061

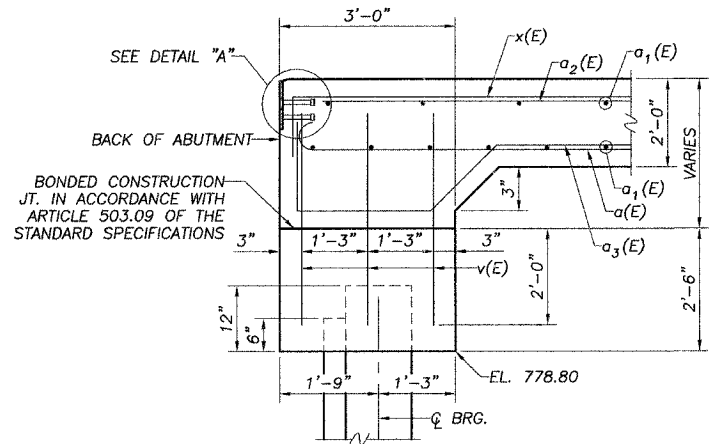
I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".



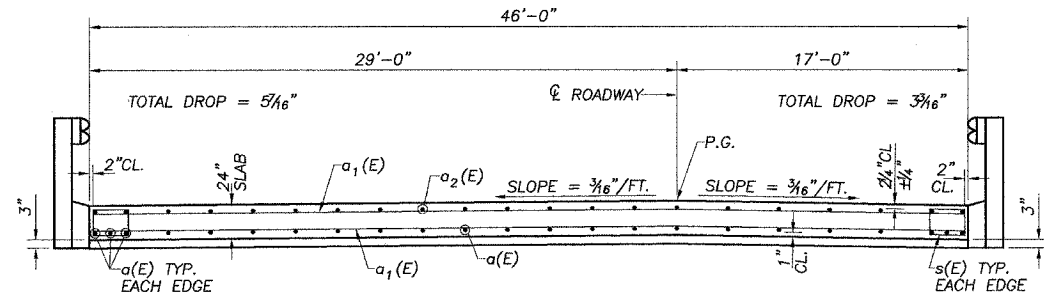
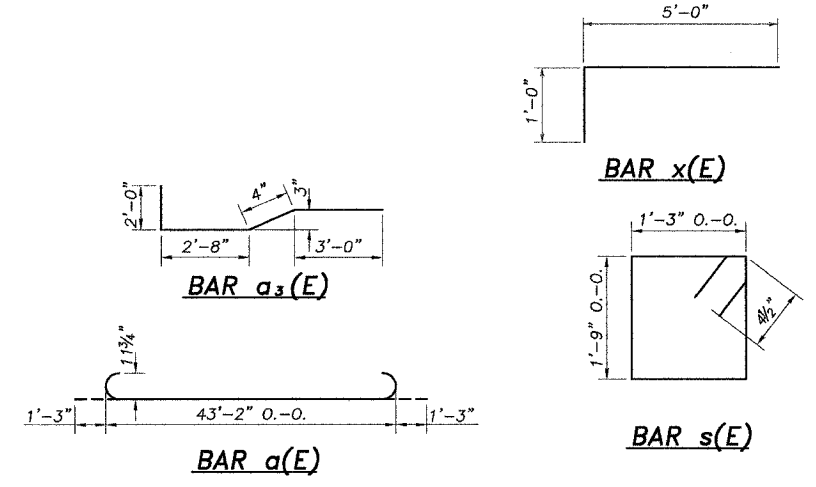
PLAN



CROSS SECTION AT ABUTMENTS
(ELEVATIONS ARE AT BACK OF ABUTMENT)

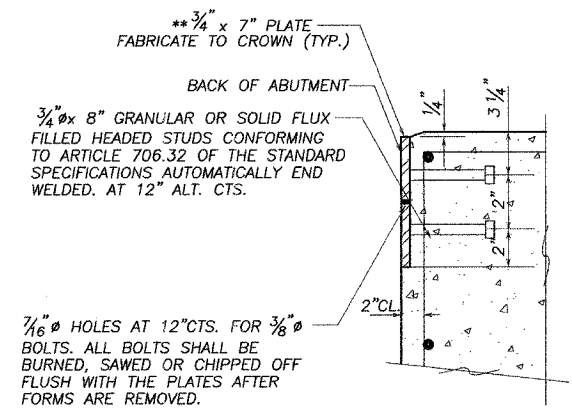


SEC. A-A



CROSS SECTION THRU DECK

** FURNISH IN THREE LENGTHS. MAXIMUM SPACE BETWEEN INSTALLED SEGMENTS SHALL BE 3/16". SEAL SPACE WITH SILICONE SEALANT SUITABLE FOR STRUCTURAL STEEL.



DETAIL "A"

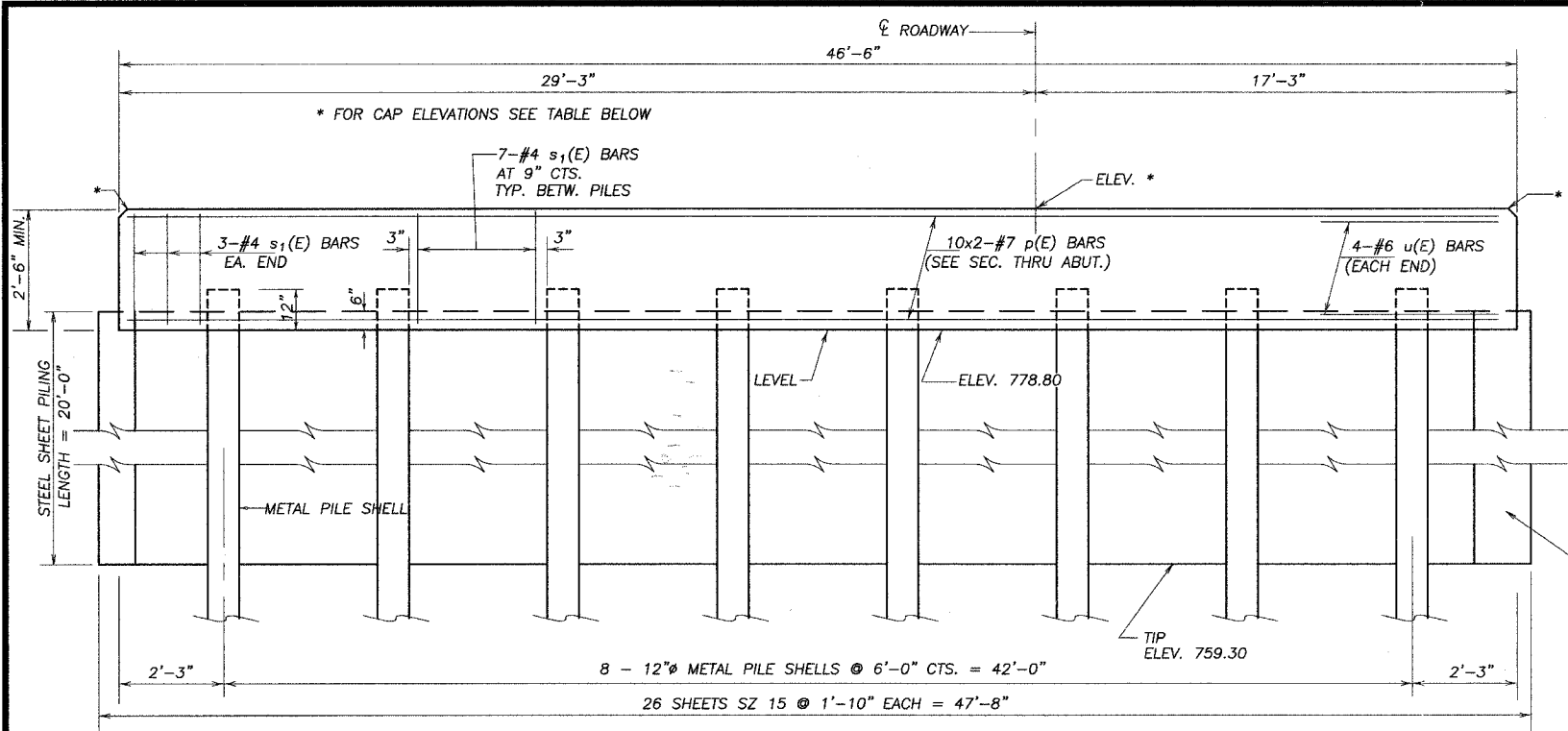
NOTE: AFTER FABRICATION ALL SURFACES OF THE STEEL PLATES SHALL BE GIVEN ONE SHOP COAT OF PAINT SPECIFIED FOR STRUCTURAL STEEL. NO FIELD PAINTING REQUIRED.

BILL OF MATERIAL - SUPERSTRUCTURE

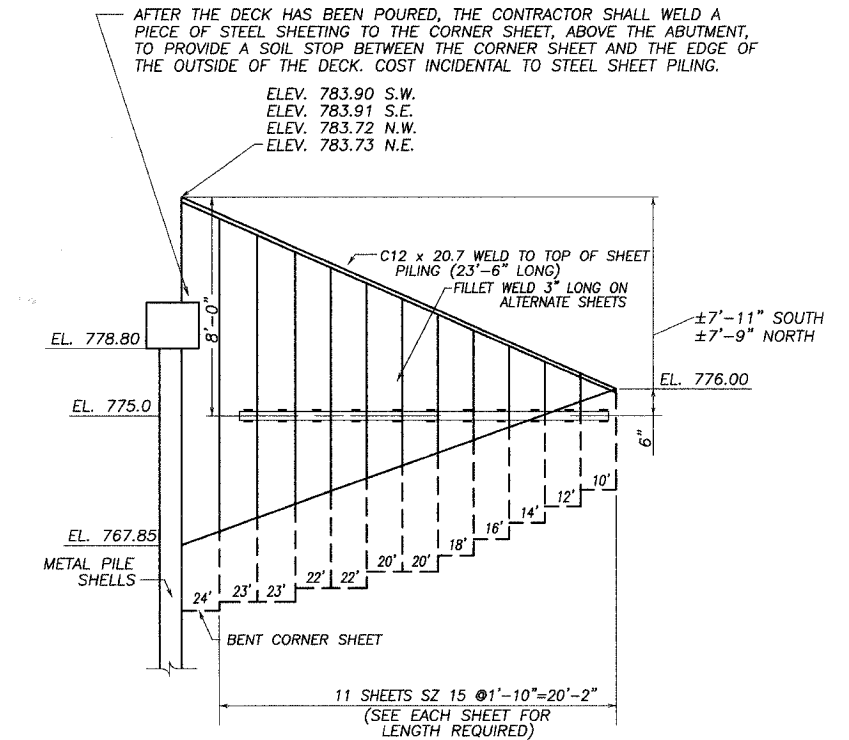
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	81	#9	45'-8"	
a1(E)	73	#5	45'-8"	
a2(E)	31	#5	43'-2"	
a3(E)	92	#4	8'-0"	
s(E)	88	#4	6'-9"	
v(E)	276	#5	4'-0"	
x(E)	92	#6	6'-0"	
CONCRETE SUPERSTRUCTURES			CU. YD.	153.5
REINFORCEMENT BARS EPOXY COATED			LBS.	20320
PROTECTIVE COAT			SQ. YD.	242
BRIDGE DECK GROOVING			SQ. YD.	222
FURNISHING AND ERECTING STRUCTURAL STEEL			LBS.	1769

* INCLUDES END OF DECK PLATES AND STUDS
REINFORCEMENT BARS INDICATED (E) SHALL BE EPOXY COATED.

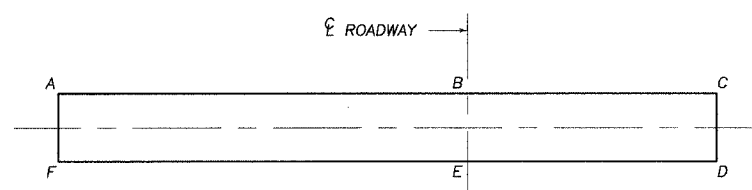
SUPERSTRUCTURE
SECTION 04-00206-00-BR
CHERRY VALLEY ROAD
DEKALB COUNTY
S.N. 019-3061



ELEVATION
 ALL HORIZONTAL DIMENSIONS ARE ALONG CENTERLINE OF CAP
 *FOR CAP ELEVATIONS, SEE TABLE BELOW

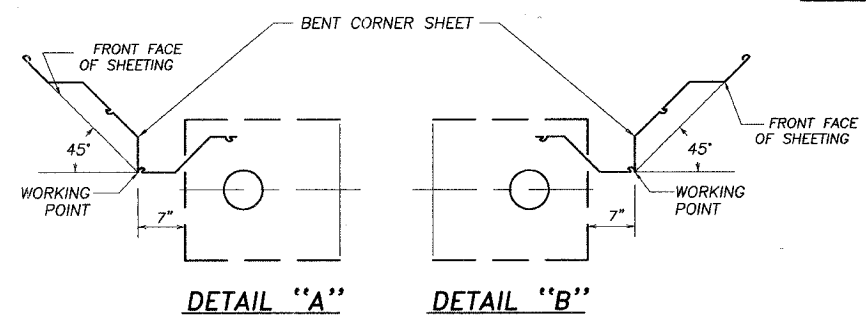


WINGWALL ELEVATION



LOCATION	ELEV.	A	B	C	D	E	F
EAST ABUT.		781.30	781.30	781.30	781.30	781.30	781.30
WEST ABUT.		781.30	781.30	781.30	781.30	781.30	781.30

ELEVATION TOP OF ABUTMENT CAP
 (LOOKING EAST)



DETAIL "A"

DETAIL "B"

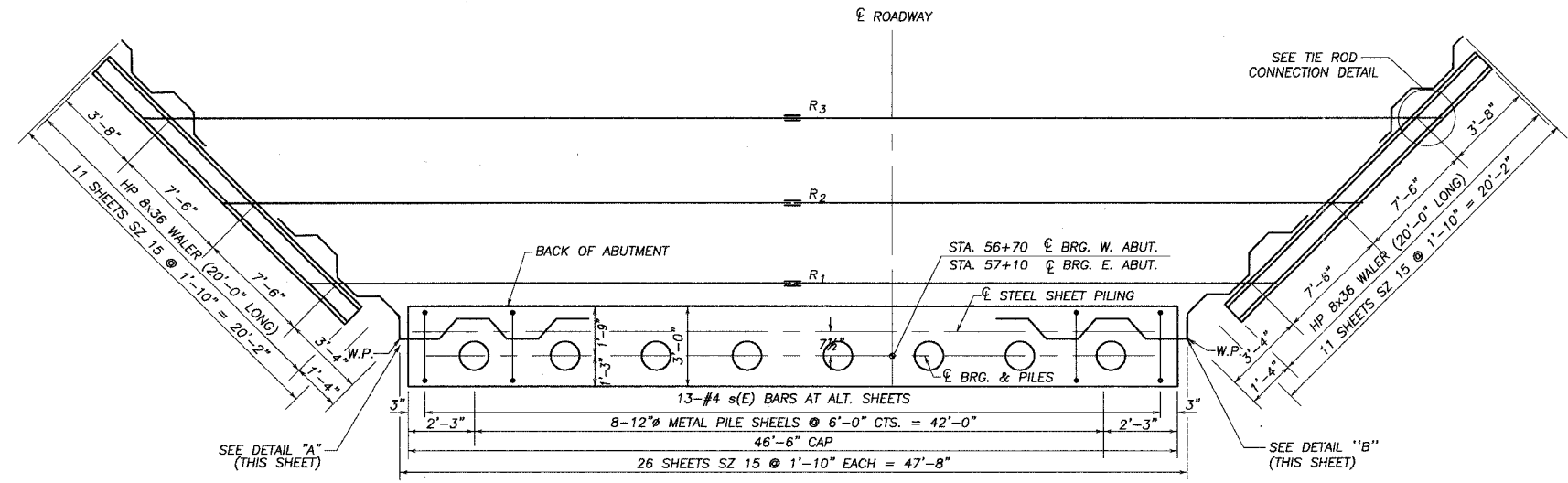
BILL OF MATERIAL - ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
p(E)	40	#7	24'-9"	—
s(E)	26	#4	6'-10"	□
s1(E)	110	#4	9'-9"	□
u(E)	16	#6	11'-7"	—
CONCRETE STRUCTURES			CU. YD.	25.1
REINFORCEMENT BARS, EPOXY COATED			LBS.	3140
FURNISHING METAL PILE SHELLS - 12"Ø			FOOT	583
TEST PILE METAL PILE SHELLS - 12"Ø			EACH	1
STEEL SHEET PILING			SQ. FT.	3550
HARDWARE			LBS.	3084
FURNISHING AND ERECTING STRUCTURAL STEEL*			LBS.	4826

REINFORCEMENT BARS INDICATED (E) SHALL BE EPOXY COATED.
 * INCLUDES WALERS & CHANNELS

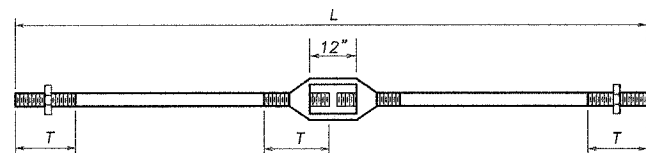
PILE DATA

TYPE : 12"Ø METAL PILE SHELLS
 CAPACITY : 80 KIPS MINIMUM
 NO. REQUIRED : 7+1 TEST PILE - WEST ABUT.
 8 EAST ABUT.
 EST. LENGTH: 41' WEST ABUT.
 37' EAST ABUT.
 MIN. PENETRATION 15' BELOW STEAMBED



PLAN
 EAST ABUTMENT LOOKING EAST
 WEST ABUTMENT SIMILAR

SUBSTRUCTURE - ABUTMENTS
 SECTION 04-00206-00-BR
 CHERRY VALLEY ROAD
 DEKALB COUNTY
 S.N. 019-3061

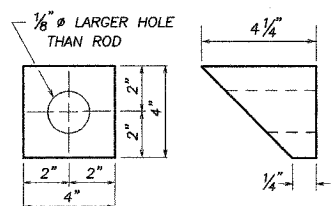


ROD DETAILS

ROD DETAILS & DIMENSIONS

RODS	SIZE	NO.	L	T	TURN-BUCKLE	EACH ROD		NUT
						BEVELED WASHERS	SIZE	
R ₁	1 3/4" Ø	2	64'-6"	12"	1 3/4" Ø	4"x4"x *	2	2
R ₂	1 1/2" Ø	2	75'-0"	12"	1 1/2" Ø	4"x4"x *	2	2
R ₂	1 1/4" Ø	2	85'-6"	12"	1 1/4" Ø	4"x4"x *	2	2

*SEE DETAIL THIS SHEET



BEVELED WASHER DETAIL
(12 REQUIRED)

BILL OF HARDWARE

ITEM	NO.	SIZE
ROD R ₁	2	1 3/4" x 64'-6"
ROD R ₂	2	1 1/2" x 75'-0"
ROD R ₃	2	1 1/4" x 85'-6"
BEVELED WASHERS	12	4"x4"x *
NUTS FOR RODS	4	1 3/4", 1 1/2", 1 1/4"
TURNBUCKLES	2	1 3/4", 1 1/2", 1 1/4"

*SEE DETAIL THIS SHEET

SUBSTRUCTURE NOTES

AFTER THE ABUTMENT PILES ARE IN PLACE, THE CONTRACTOR SHALL START STEEL SHEET PILE DRIVING OPERATIONS WITH A BENT CORNER SHEET AT THE LOCATION SHOWN, OR BY MAKING AN ACCURATE LAYOUT OF THE WALL BEFORE STARTING, SO THAT ALL SHEETS, WALERS AND RODS WILL FIT AS PLANNED.

AFTER THE DECK HAS BEEN POURED, THE CONTRACTOR SHALL WELD A PIECE OF STEEL SHEETING TO THE CORNER SHEET, ABOVE THE ABUTMENT, TO PROVIDE A SOIL STOP BETWEEN THE CORNER SHEET AND THE EDGE OF THE OUTSIDE DECK. COST SHALL BE INCIDENTAL TO STEEL SHEET PILING.

HARDWARE ITEMS SHALL BE HOT-DIPPED GALVANIZED AND ARE INCLUDED FOR PAYMENT PER POUND OF HARDWARE. ALL OTHER MATERIAL AND LABOR REQUIRED FOR THE INSTALLATION OF HARDWARE SHALL BE INCIDENTAL TO THE CONTRACT.

AFTER THE WING SHEET PILING IS IN PLACE, HOLES SHALL BE DRILLED (NOT BURNT) IN THE WING SHEETING AND WALERS FOR PASSAGE OF TIERODS.

WALERS & CHANNEL SECTIONS ARE ALL INCLUDED FOR PAYMENT PER POUND OF FURNISHING AND ERECTING STRUCTURAL STEEL. WALERS SHALL HAVE 3/8 INCH DRAINAGE HOLES AT 24 INCH CTS. ALONG CENTERLINE OF WEB.

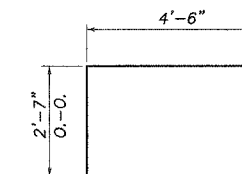
ALL RODS, NUTS, WASHERS, AND WALERS SHALL BE IN PLACE AND PROPERLY SECURED BEFORE BACKFILLING SHALL BEGIN.

BACKFILL SHALL BE PLACED BEHIND THE ABUTMENT AFTER THE SUPERSTRUCTURE HAS BEEN POURED AND THE FALSEWORK REMOVED. SEE ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.

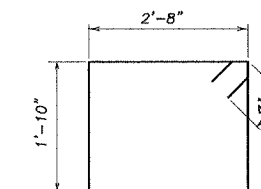
ALL EXPOSED WALERS, CHANNELS, STEEL PILING, STEEL SHEET PILING, AND HARDWARE SHALL BE PAINTED ACCORDING TO THE SPECIAL PROVISIONS FOR CLEANING AND PAINTING NEW METAL STRUCTURES. THE INTERMEDIATE COAT MAY BE APPLIED IN THE SHOP.

THE COLOR OF THE FINAL FINISH COAT SHALL BE REDDISH BROWN, MUNSELL NO. 25 TR 3/4 OR AS APPROVED BY THE ENGINEER.

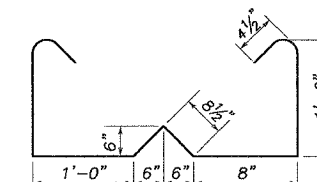
STEEL SHEET PILING SHALL BE NEW SZ 15 OR APPROVED EQUAL PILING WITH AN EFFECTIVE SECTION MODULUS EQUAL TO OR GREATER THAN 10.9 IN.³/FT. SEE SPECIAL PROVISION FOR "PERMANENT STEEL SHEET PILING."



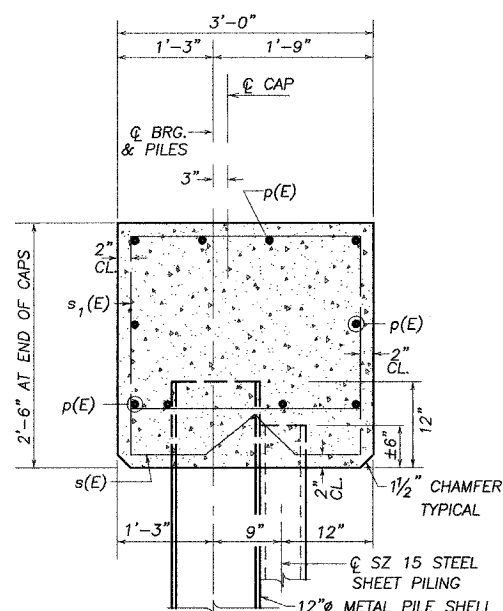
BAR u(E)



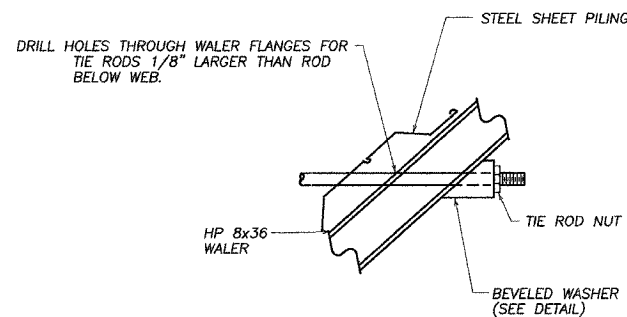
BAR s1(E)



BAR s(E)

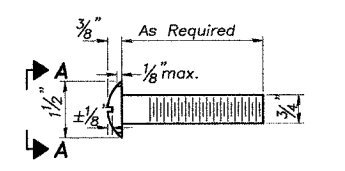


SEC. THRU ABUT.
(AT RIGHT ANGLES)

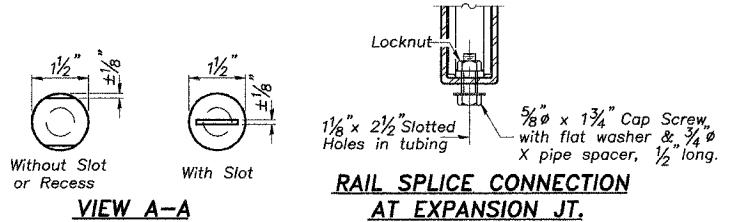


TYPICAL TIE ROD CONNECTION DETAIL

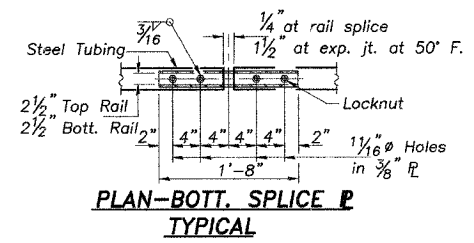
ABUTMENT DETAILS
SECTION 04-00206-00-BR
CHERRY VALLEY ROAD
DEKALB COUNTY
SN 019-3061



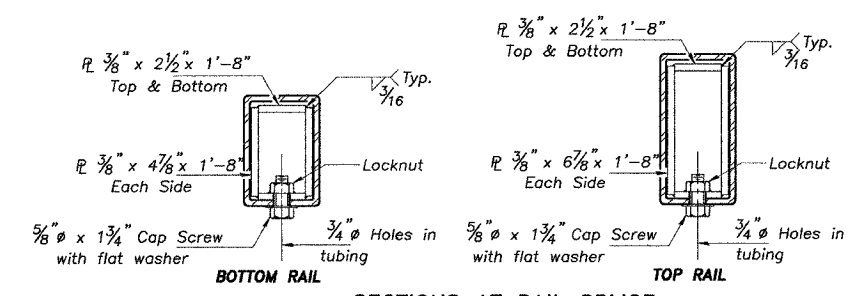
DETAIL OF 3/4" ROUND HEAD BOLT



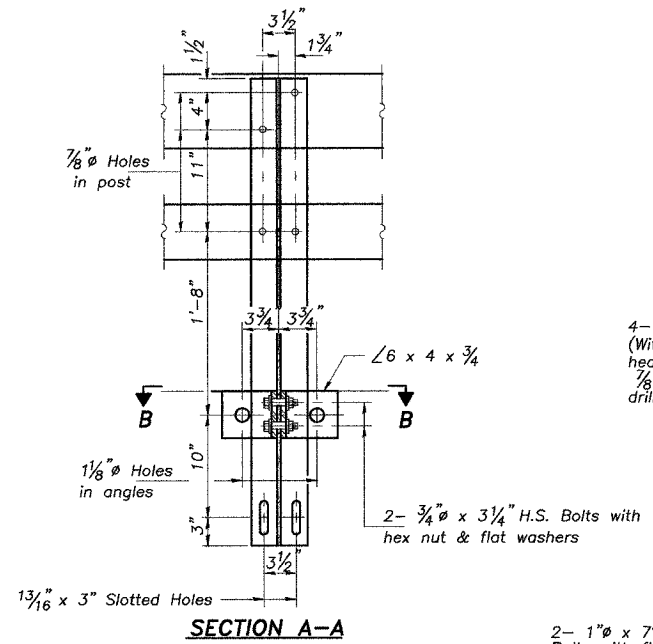
RAIL SPLICE CONNECTION AT EXPANSION JT.



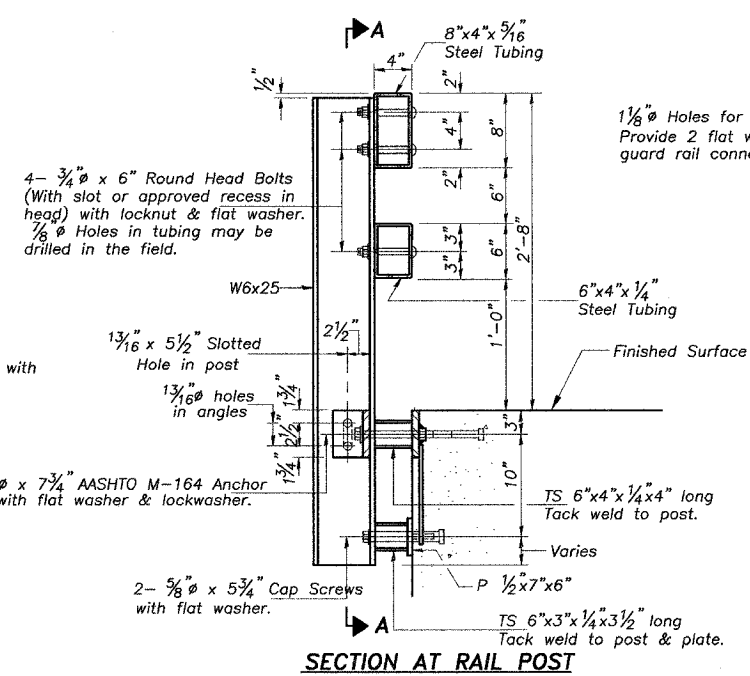
PLAN-BOTT. SPLICE P TYPICAL



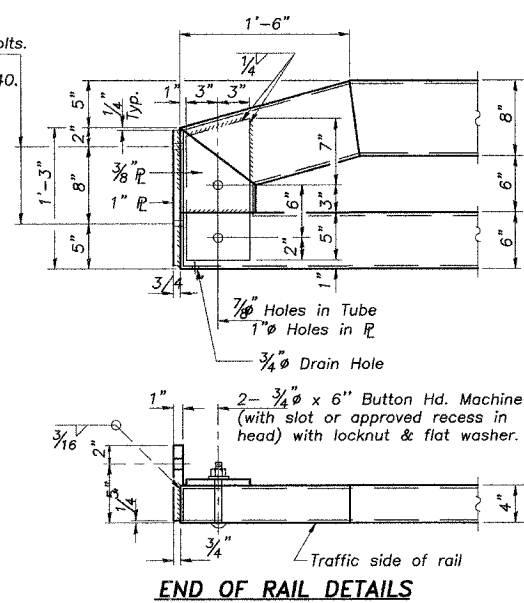
SECTIONS AT RAIL SPLICE



SECTION A-A



SECTION AT RAIL POST



END OF RAIL DETAILS

GENERAL NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M-270 Grade 36 except posts and angles shall conform to AASHTO M-270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.

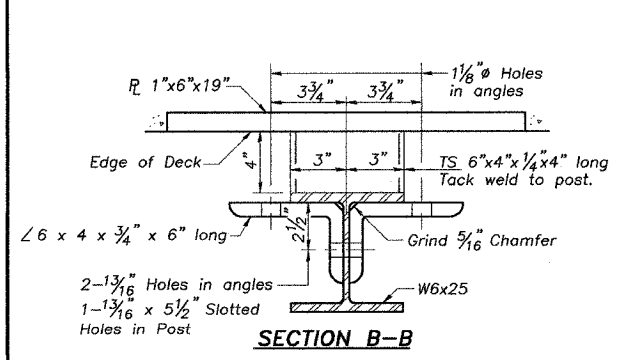
Railing shall be in accordance with Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL BRIDGE RAIL, TYPE SM.

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

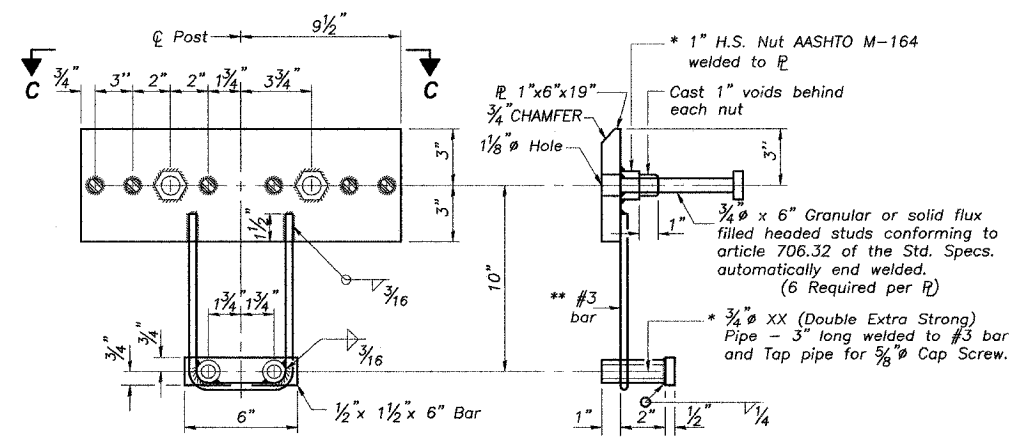
For multi-span PPC Deck bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to STEEL BRIDGE RAIL, TYPE SM.

Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 505.04(f)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.



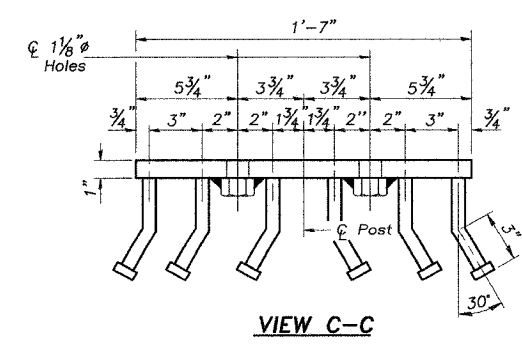
SECTION B-B



ANCHOR DEVICE

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

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

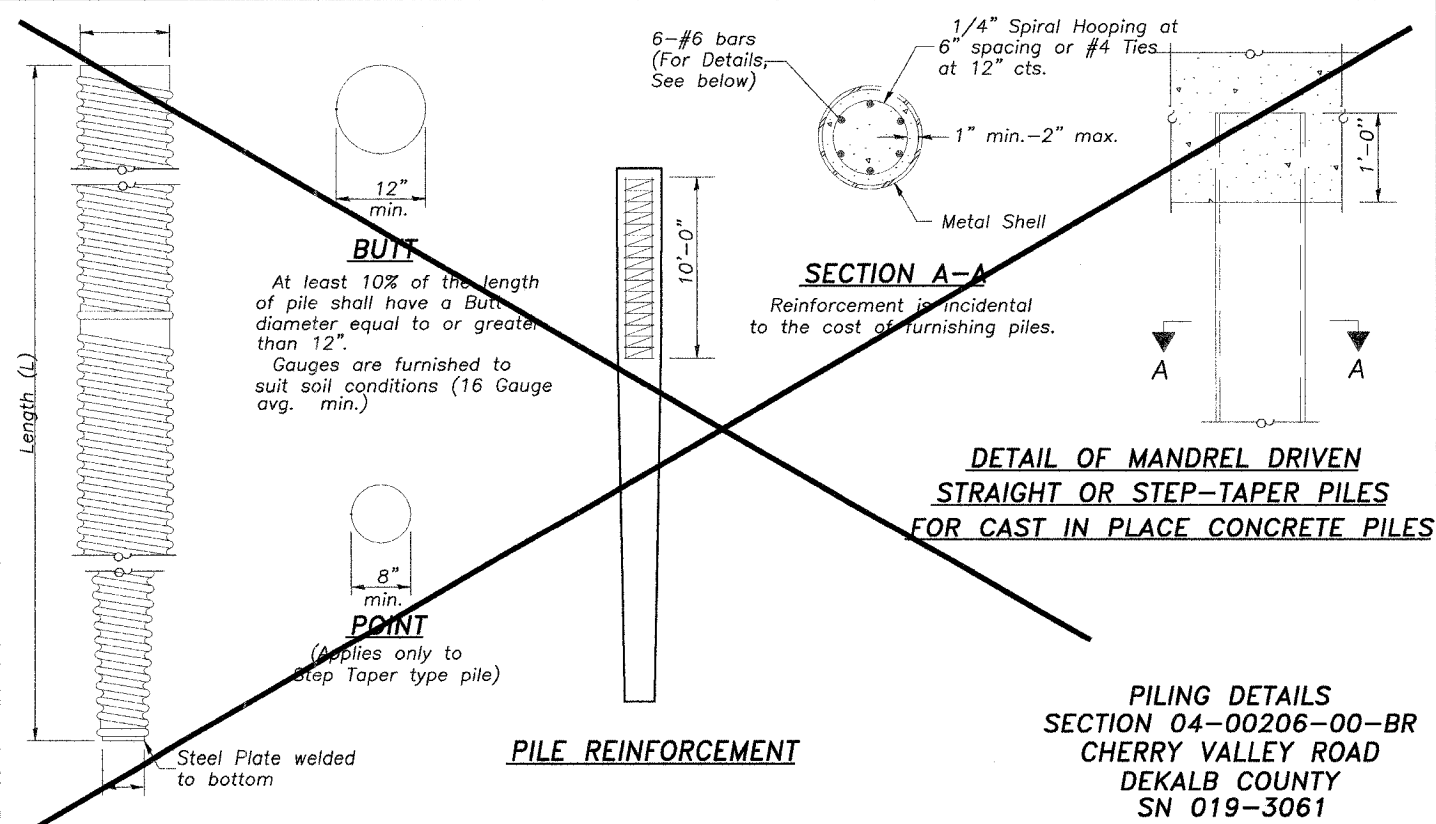
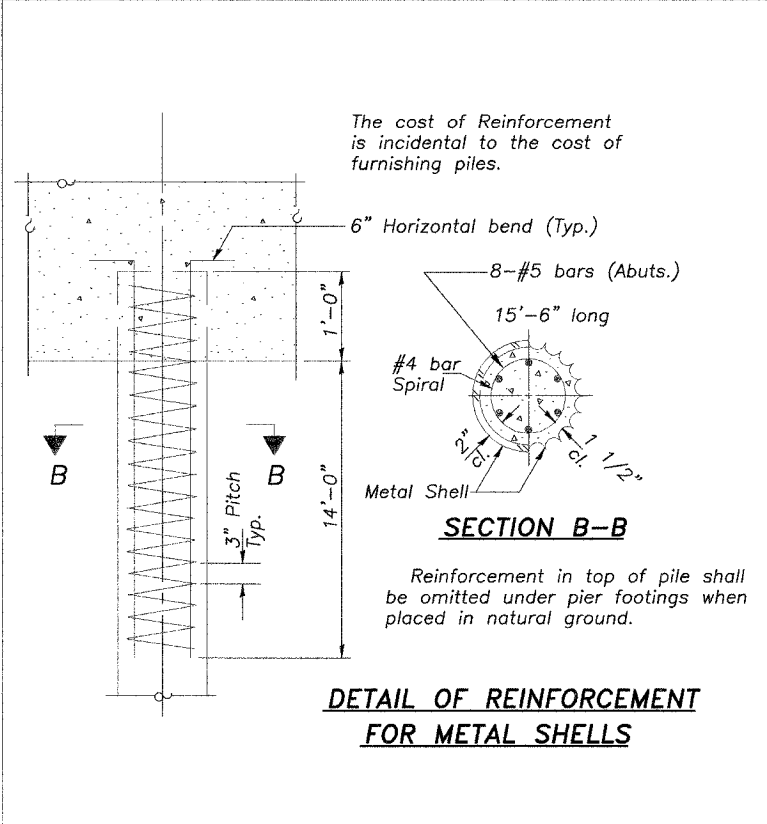
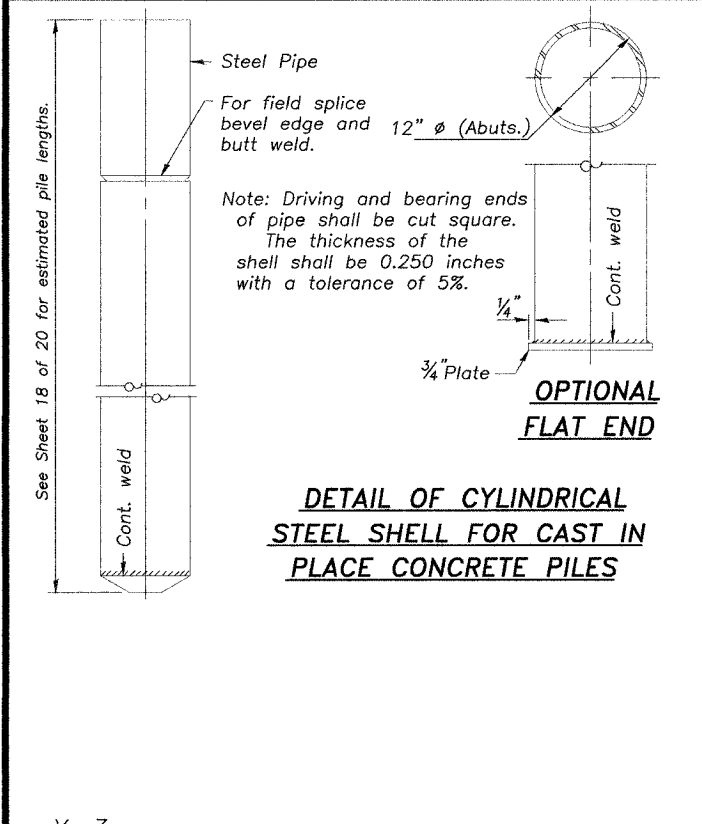
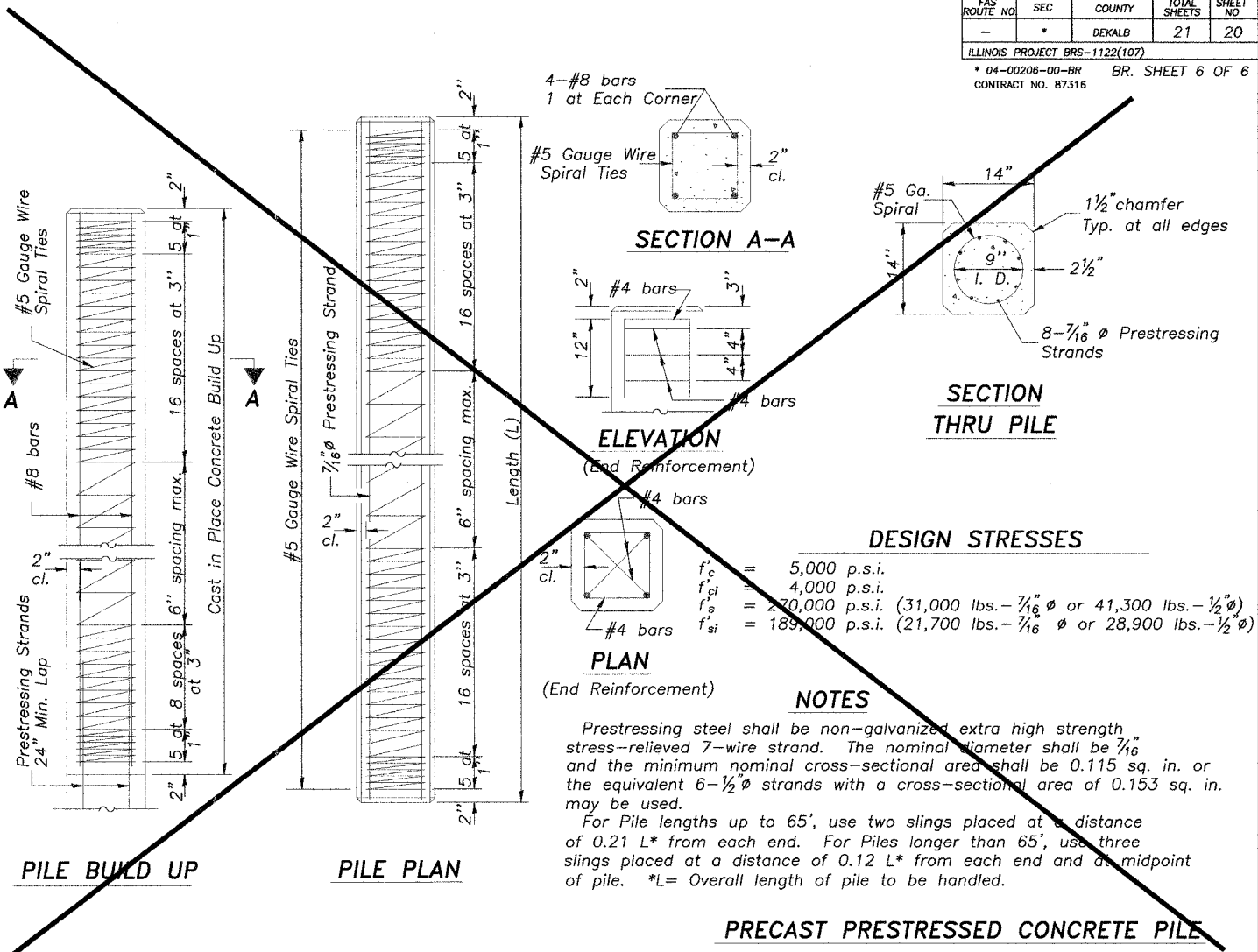
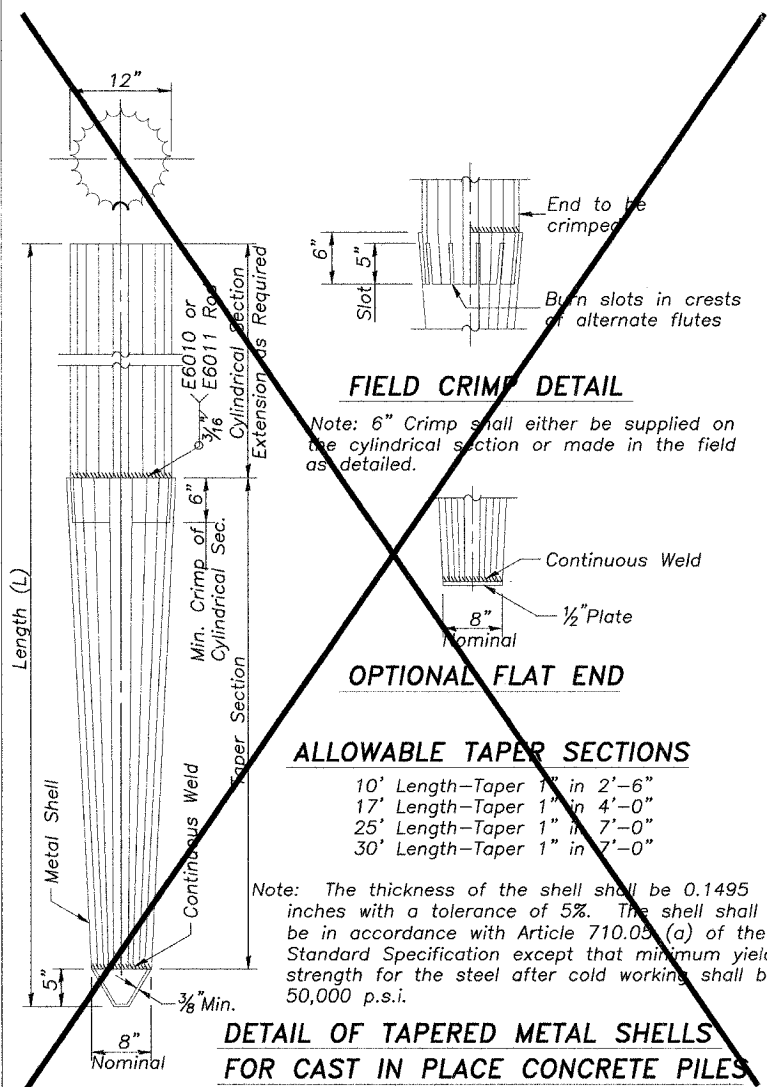
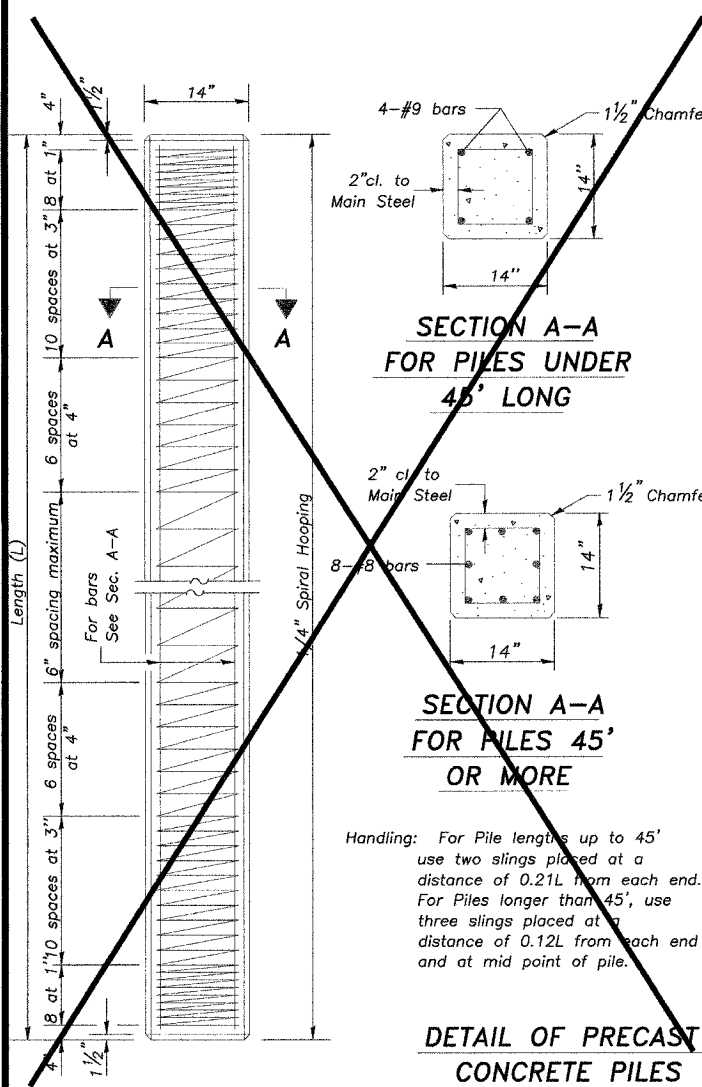


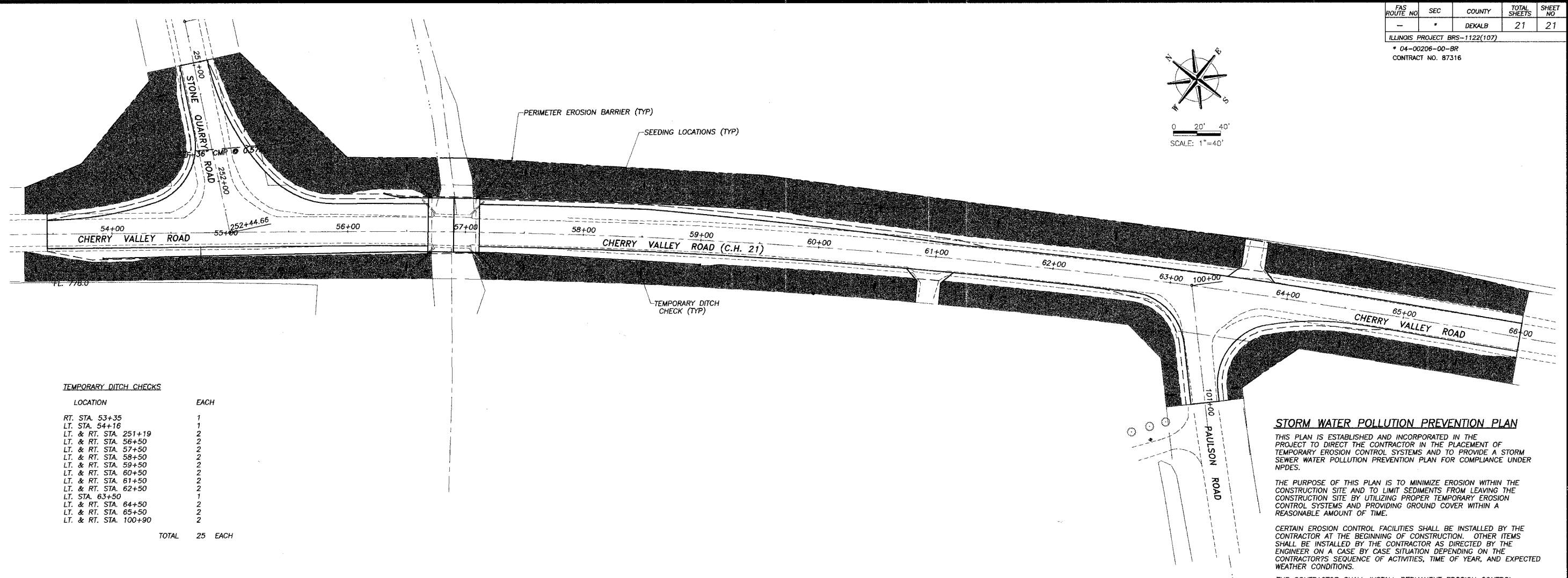
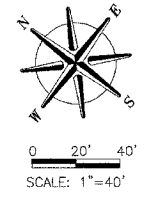
VIEW C-C

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	87

TYPE SM
 STEEL BRIDGE RAIL SIDE MOUNTED
 SECTION 04-00206-00-BR
 CHERRY VALLEY ROAD
 DEKALB COUNTY
 SN 019-3061





TEMPORARY DITCH CHECKS

LOCATION	EACH
RT. STA. 53+35	1
LT. STA. 54+16	1
LT. & RT. STA. 251+19	2
LT. & RT. STA. 36+50	2
LT. & RT. STA. 57+50	2
LT. & RT. STA. 58+50	2
LT. & RT. STA. 59+50	2
LT. & RT. STA. 60+50	2
LT. & RT. STA. 61+50	2
LT. & RT. STA. 62+50	2
LT. STA. 63+50	1
LT. & RT. STA. 64+50	2
LT. & RT. STA. 65+50	2
LT. & RT. STA. 100+90	2
TOTAL	25 EACH

STORM WATER POLLUTION PREVENTION PLAN

THIS PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLANS CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. REMOVAL OF THE EXISTING BRIDGE STRUCTURE
2. EXCAVATION AND EMBANKMENT WILL BE COMPLETED ALONG THE JOB SITE TO GRADE OUT FOR THE ROADWAY ALIGNMENT AND CONSTRUCT EMBANKMENT AND DITCHES.
3. CONSTRUCTION OF NEW BRIDGE STRUCTURE.
4. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS PERIMETER EROSION CONTROL BARRIER, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, ETC.
5. FINAL GRADING, PAVING AND OTHER MISCELLANEOUS ITEMS.
6. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP DITCH AND EROSION CONTROL BLANKET, SEEDING, ETC.

AREAS OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 3.18 ACRES OF WHICH 3.18 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING AND OTHER ACTIVITIES.

CONTROLS : EROSION CONTROLS AND SEDIMENT CONTROL DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION

1. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARY OR PERMANENTLY CEASED.

a) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.

b) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.

c) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.

d) BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.

e) IMMEDIATELY AFTER STRUCTURE REMOVAL IS COMPLETED, AREAS WHICH ARE HIGHLY ERODABLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.

f) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE OF THE RIGHT OF WAY LINE.

2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDING CAN BE COMPLETED.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THESE AREAS FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS OR DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

a) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.

b) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN TWENTY-ONE DAYS.

c) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER

i) PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.

ii) TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.

iii) CONSTRUCT ROADSIDE DITCHES AND PROVIDE TEMPORARY DITCH CHECKS.

iv) TEMPORARILY DIVERT WATER AROUND PROPOSED CULVERT/BRIDGE LOCATIONS.

v) BUILD NECESSARY EMBANKMENT AT CULVERT LOCATIONS AND THEN EXCAVATE AND PLACE CULVERT.

vi) CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE AT THE SAME TIME, PLACING PERMANENT EROSION CONTROL SUCH AS RIPRAP DITCH LINING AND CONDUCTING FINAL SHAPING TO THE SLOPES.

d) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 14 DAYS.

e) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

f) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT BI-WEEKLY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1" INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.

g) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION.

h) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

DESCRIPTION OF PRACTICES AFTER FINAL GRADING

i) TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDDED AND ESTABLISHED.

1) ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDDED.

MAINTENANCE AFTER CONSTRUCTION

1) CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY I.D.O.T. FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS

1. PERIMETER EROSION CONTROL SHALL BE LOCATED AT LOCATIONS DIRECTED BY THE ENGINEER AND PLACED IN ACCORDANCE WITH STANDARD 280001.

2. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS./ACRES.

3. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS, AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE CONSIDERED INCIDENTAL FOR EARTH EXCAVATION.

4. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 28001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEM.

DEKALB COUNTY HIGHWAY DEPARTMENT
 APPROVED 6/27 2007
 [Signature]
 WILLIAM LORENCE, P.E.
 DEKALB COUNTY ENGINEER

STORM WATER POLLUTION PREVENTION PLAN
SECTION 04-00206-00-BR
CHERRY VALLEY ROAD
DEKALB COUNTY
S.N. 019-3061