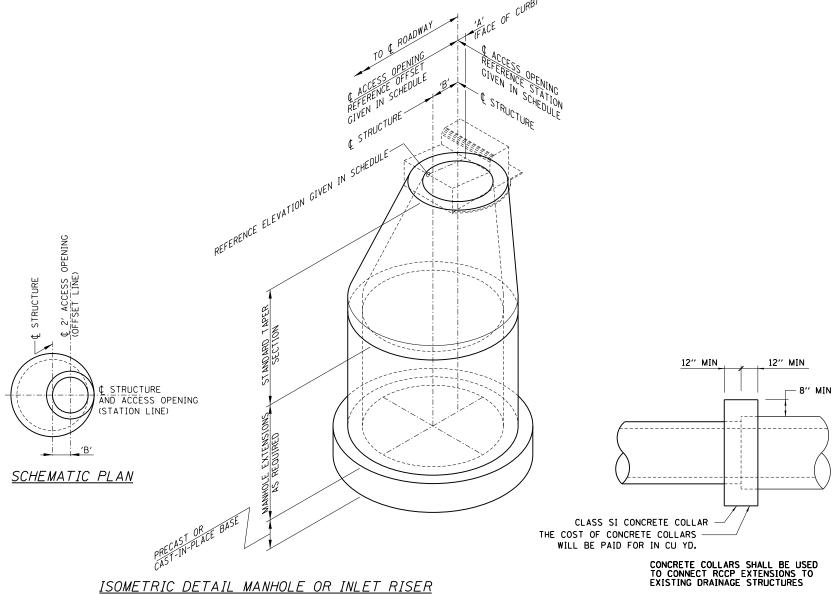


STRUCTURE TYPE	FRAME & GRATE OR LID TYPE	'A'	'B'
INLET TYPE 'A'	TYPE 3 FRAME & GRATE	0.30'	0.00′
INLET TYPE 'B'	TYPE 3 FRAME & GRATE	0.30'	0.50′
MANHOLE TYPE 'A', 5' DIA.	TYPE 1 FRAME, CLOSED LID	0.00′	1.00′
MANHOLE TYPE 'A', 4' DIA	TYPE 8 GRATE	0.00′	1.00′
MANHOLE TYPE 'A', 4' DIA.	TYPE 11 FRAME & GRATE	0.20'	1.00′
MANHOLE TYPE 'A', 8' DIA.	TYPE 1 FRAME, CLOSED LID	0.00	3.00′



NOTES:

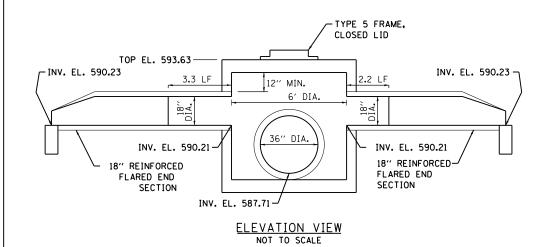
- 1. SCHEMATIC DETAILS ONLY, NOT INTENDED TO REPRESENT ALL CONDITIONS.
- 2. SEE DRAINAGE STRUCTURE SCHEDULE FOR STRUCTURES ROTATED 180° FROM DETAILS SHOWN.
- 3. STATIONS AND OFFSETS GIVEN IN SCHEDULE ARE TO THE ¢ OF ACCESS OPENING.

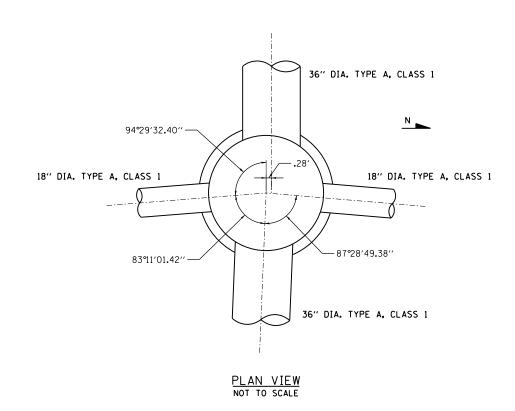
TYPICAL CONCRETE COLLAR DETAIL

NOT TO SCALE

UPRR STANDARD DETAIL SK-5 APPLIES AT RR CULVERT

SCALE:



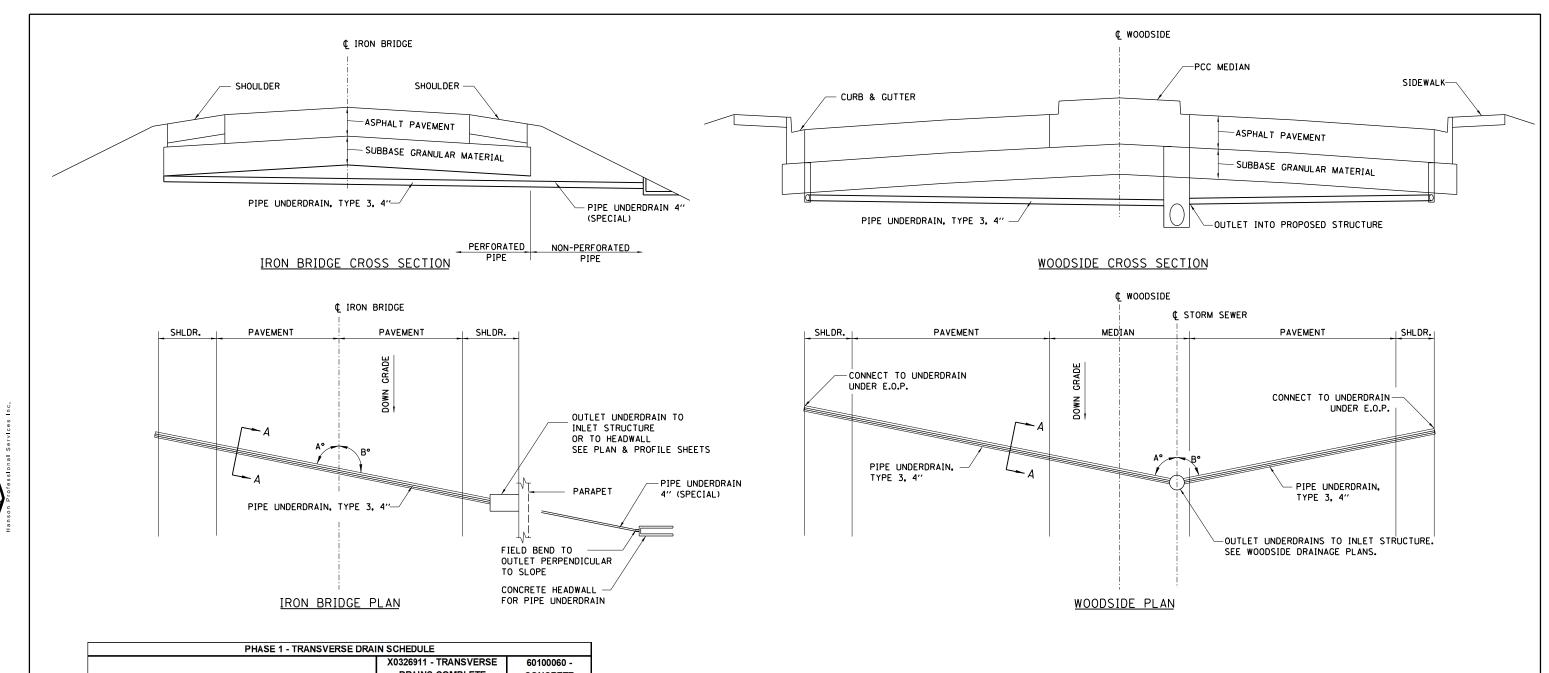


MANHOLE, TYPE A, 6' DIA.
SHOOFLY STA. 396+12.33

FILE NAME =	USER NAME = Johns00944	DESIGNED -	KENISED -	
GC-5-DRAIN_DTLS_1.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS
	PLOT SCALE = 100.000 '/ in.	CHECKED -	REVISED -	SANGAMON COUNTY HIGHWAY DEPARTMENT
	PLOT DATE = 10/26/2022	DATE -	REVISED -	

TOTAL SHEET SHEETS NO. SECTION COUNTY DRAINAGE STRUCTURE DETAILS SANGAMON 368 101 96S2002F CONTRACT NO. 93671 SHEET NO. OF SHEETS STA.





	PHASE 1 - TRANSVERSE DRAIN SCHEDULE											
				X0326911 - T	RANSVERSE	60100060 -						
				DRAINS C	OMPLETE	CONCRETE						
IRON BRID	GE ROAD			UNDERDRAIN	UNDERDRAIN	HEADWALL FOR						
STATION	LT/RT	STATION	LT/RT	ANGLE A	ANGLE B	4" (FEET)	4", SP (FEET)	PIPE DRAINS (EA)				
691+29.00	LT	691+17.00	RT	70	110	40						
693+98.65	LT	693+85.00	RT	70	110	41						
701+39.60	LT	707+42.00	RT	50	130	53						
704+80.00	LT	705+21.00	RT	50	130	64						
705+21.00	LT	705+36.90	RT	50	130		24	1				
					TOTALS	198	24	1				

	PHASE 2 - TRANSVERSE DRAIN SCHEDULE											
		X0326911 - TRANSVERSE DRAINS COMPLETE										
WOODSIDE STATION	E ROAD LT/RT	STATION	LT/RT	ANGLE A	ANGLE B	UNDERDRAIN 4" (FEET)						
102+10.00	RT	102+45.00	RT	41.62	49.5	45						
102+10.00	LT	102+45.00	LT	41.62	49.5	52						
104+10.00	RT	104+45.00	RT	42.37	50.17	45						
104+10.00	LT	104+45.00	LT	42.37	50.17	52						
108+02.00	RT	108+40.00	RT	47.35	39.25	47						
108+02.00	LT	108+40.00	LT	47.35	39.25	54						
					TOTALS	295						

FILE NAME =	USER NAME = Johns00944	DESIGNED - JDS	REVISED -
Fc-5-TRANSVERSE_1001.dgn		DRAWN - JDS	REVISED -
	PLOT SCALE = 20.0000 '/ in.	CHECKED - JWM	REVISED -
	PLOT DATE = 10/27/2022	DATE - 8/24/2020	REVISED -

CANCARAON	STATE OF ILLINOIS	
SANGAMON	COUNTY HIGHWAY DEPARTMENT	
		SCALE:

	*****				105 4 0 0	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
TRANSVERSE DRAIN DETAILS – PHASE 1 & 2					ASE 1 & 2		•	SANGAMON	368	102
							96S2002F	CONTRACT	NO.	93671
	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. R	DAD DIST. NO. 6 ILLINOIS FED.	AID PROJECT 6		
						• 07	-00164-04-FP, 07-00090-0	8-FP		

1'-0"

SECTION A-A

BACKFILL (CA-16 OR FA-4 MODIFIED)

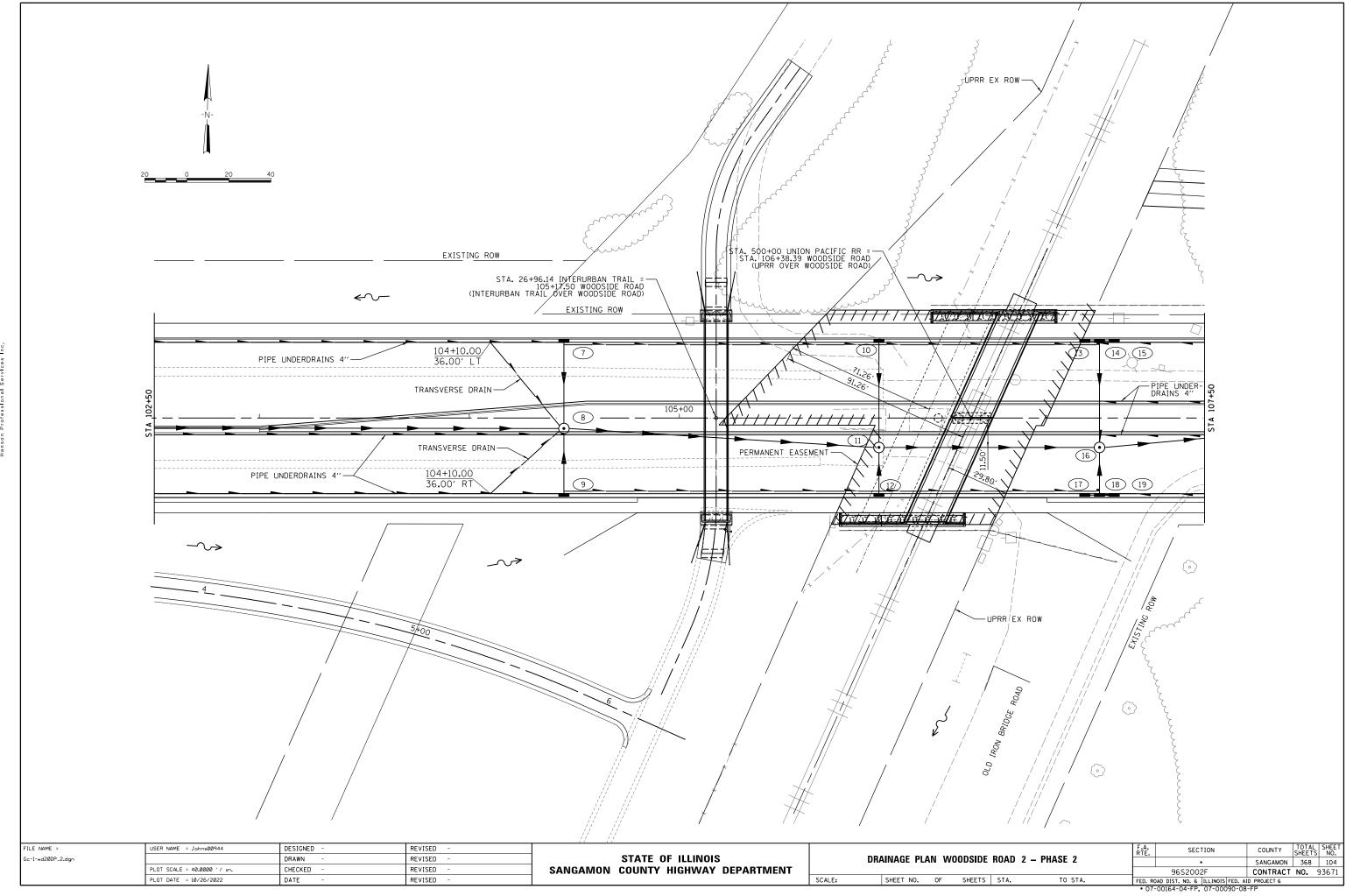
4" PERFORATED -PIPE UNDERDRAIN - PAVEMENT/SHOULDER/MEDIAN

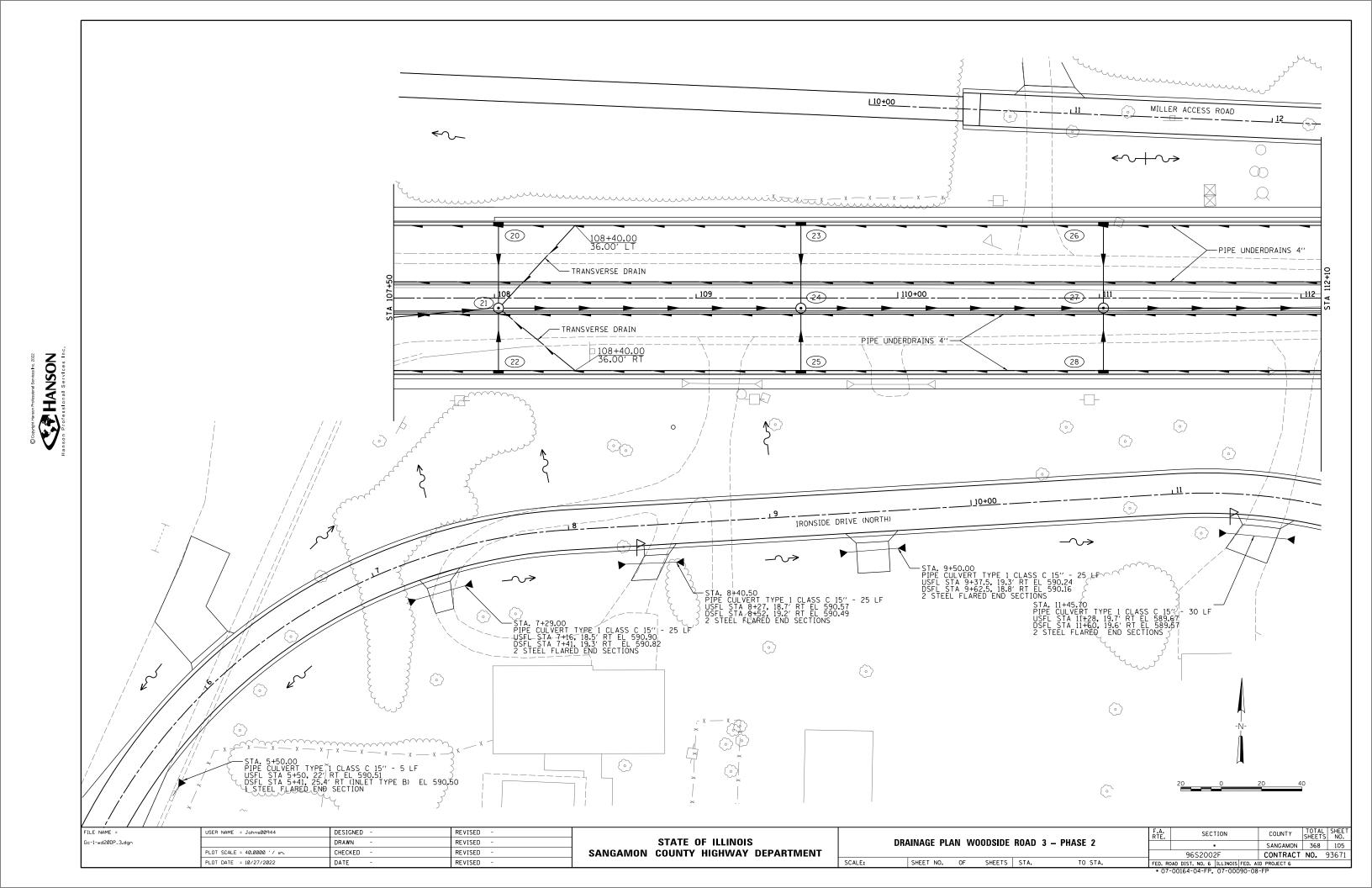
SUBBASE

GRANULAR MATERIAL

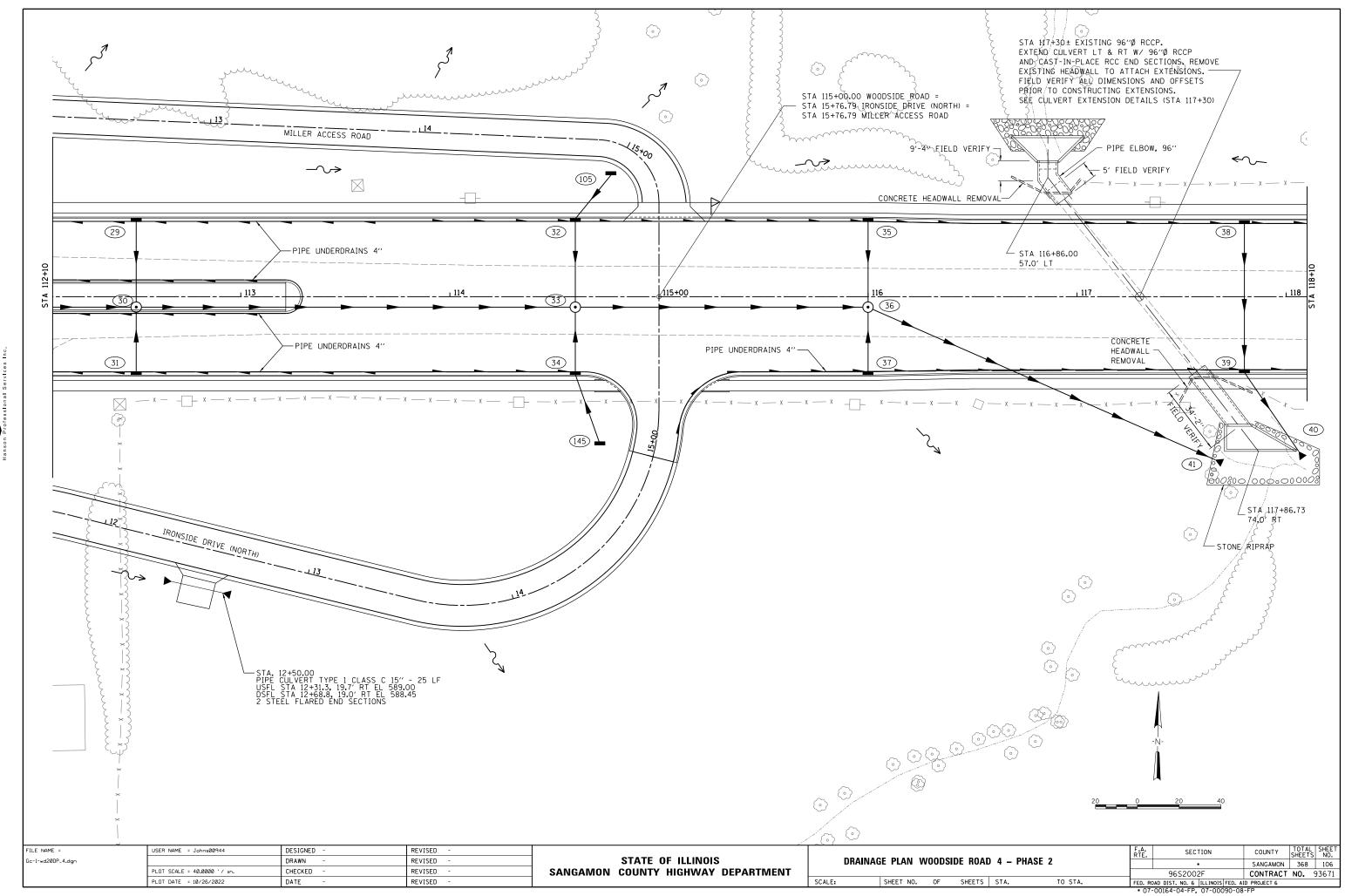
-4" (MIN.)



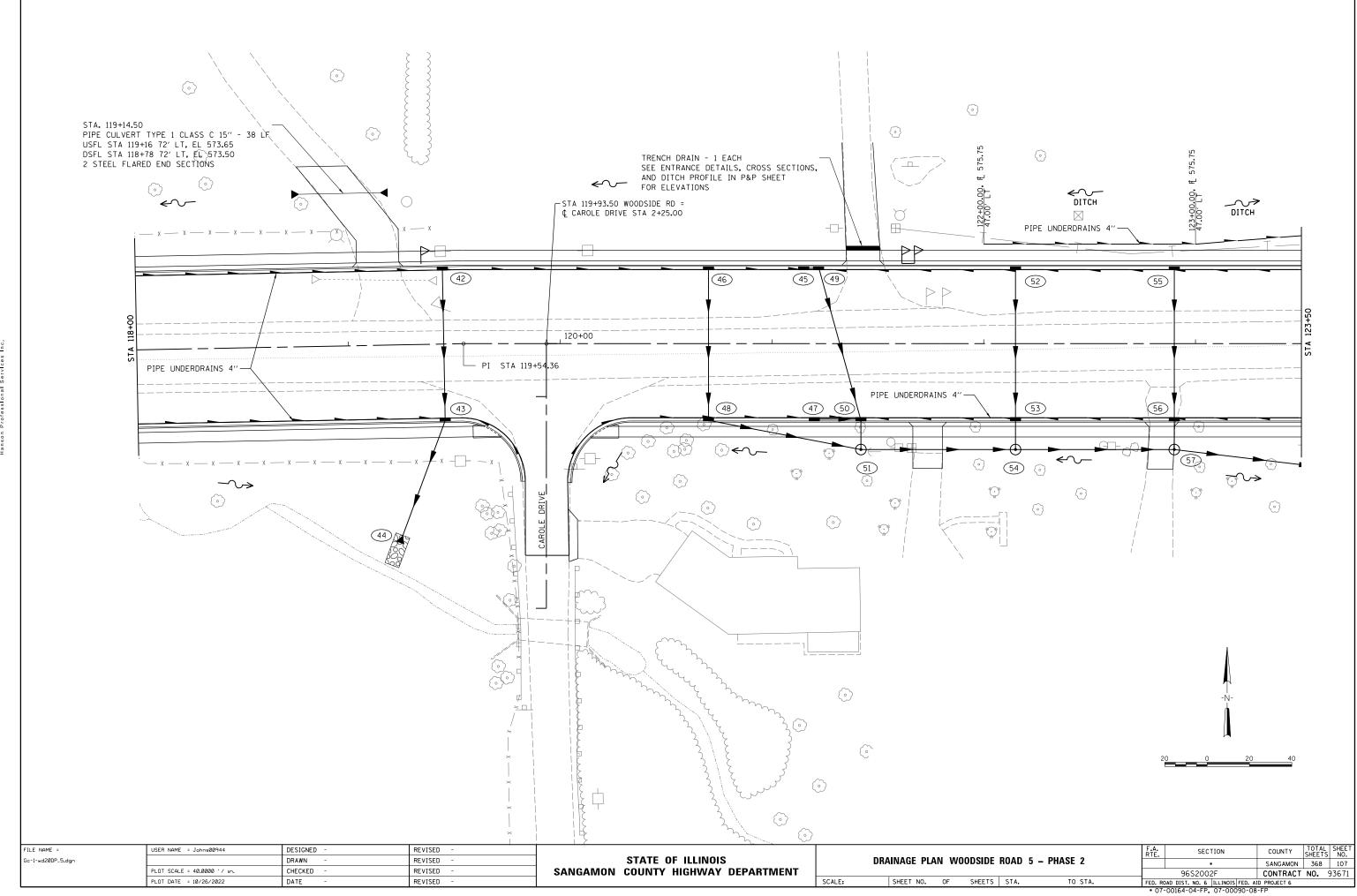










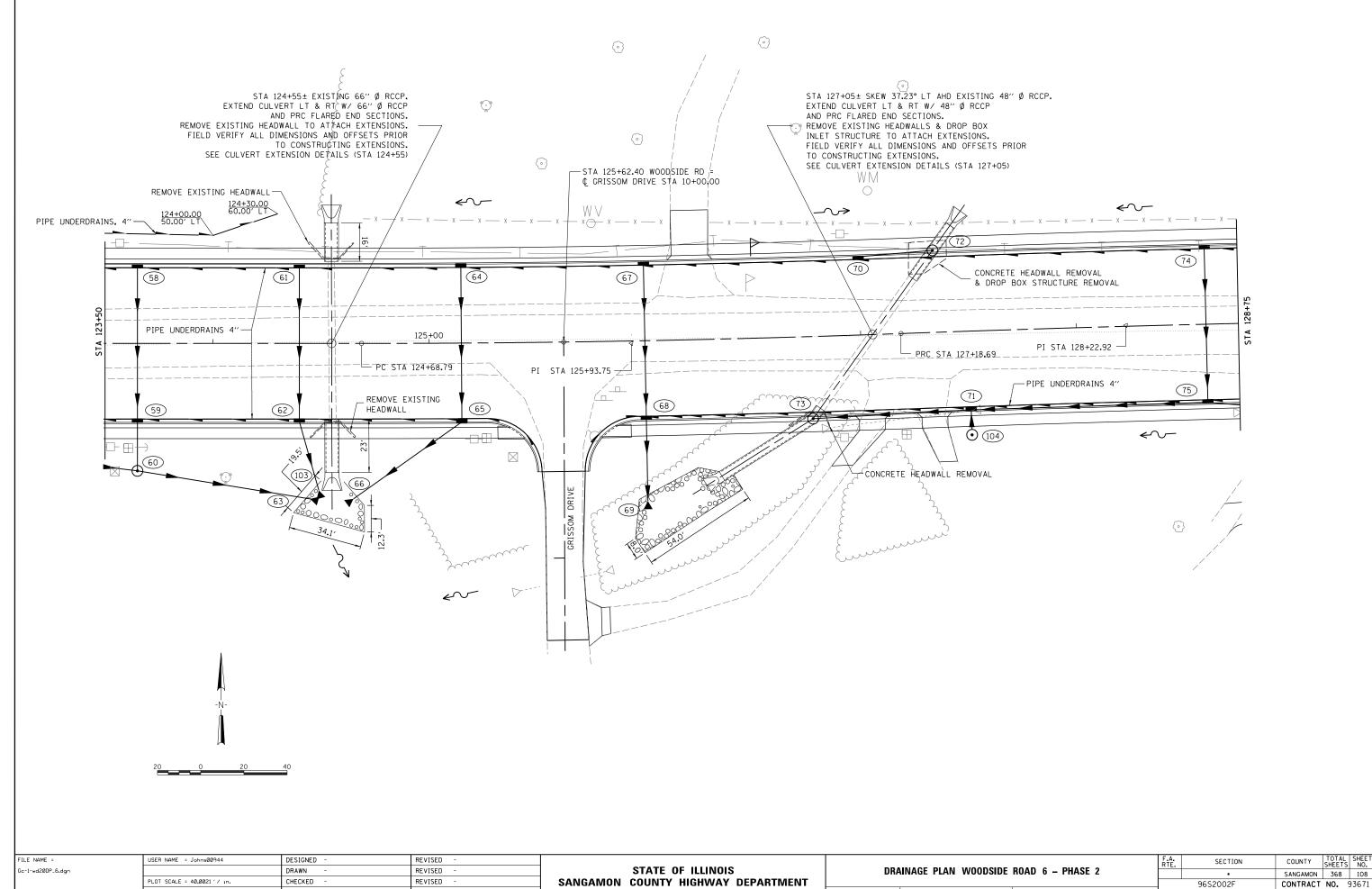




PLOT DATE = 10/26/2022

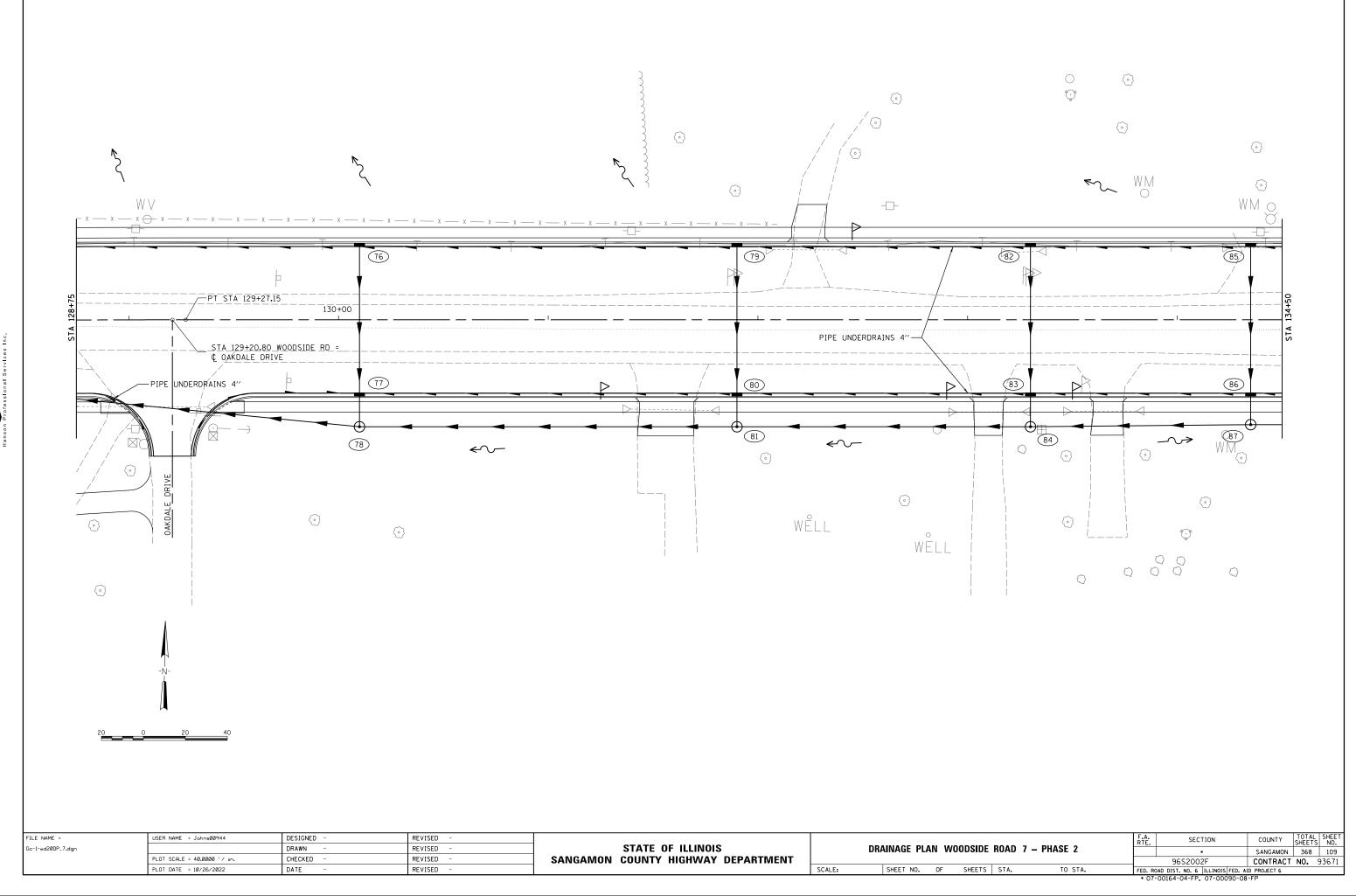
DATE

REVISED



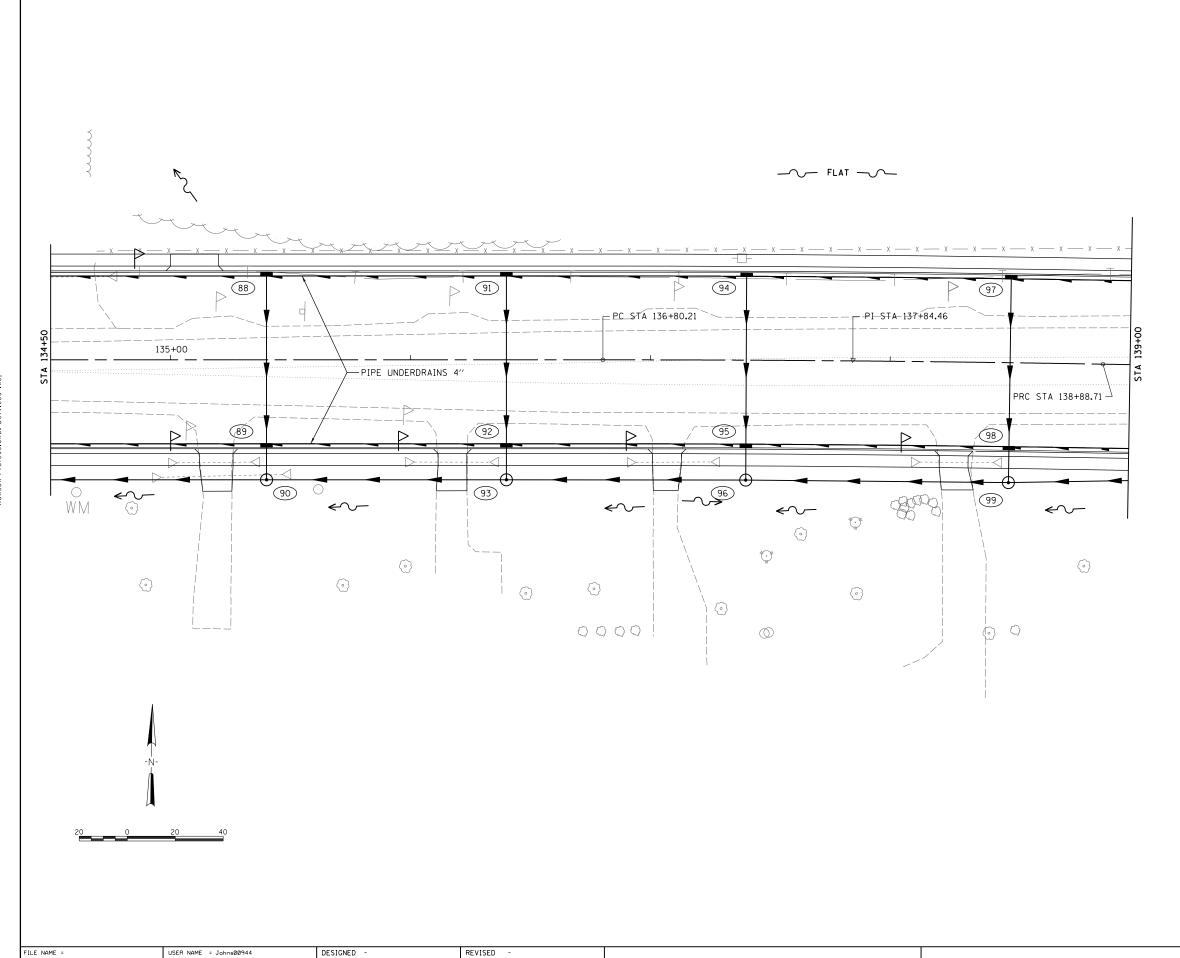
SHEET NO. OF SHEETS STA.







Gc-1-wd20DP_8.dgn



REVISED

REVISED

DRAWN

DATE

CHECKED -

PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 10/26/2022

STATE OF ILLINOIS
SANGAMON COUNTY HIGHWAY DEPARTMENT

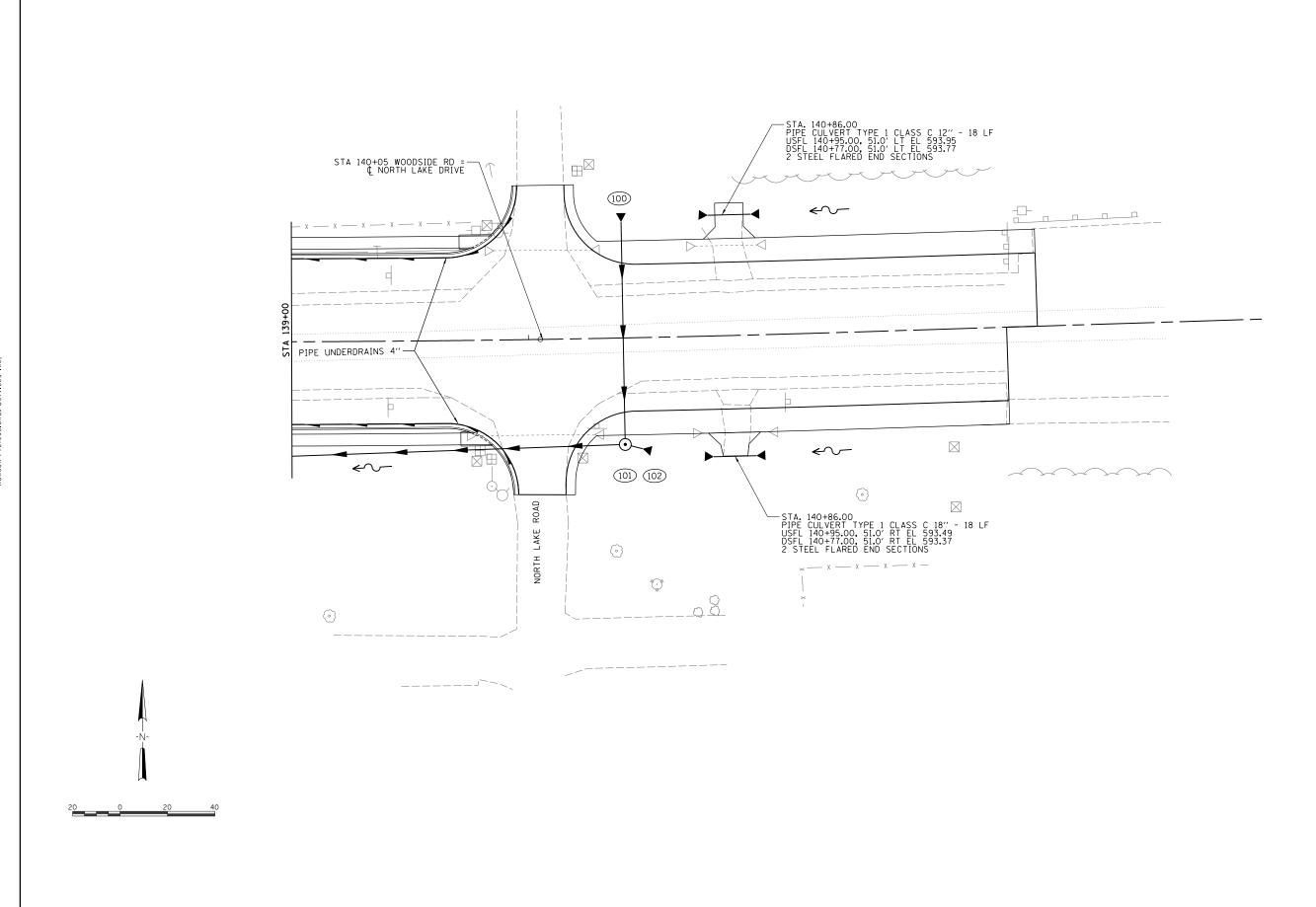
DRAINAGE PLAN WOODSIDE ROAD 8 - PHASE 2

SHEET NO. OF SHEETS STA.



FILE NAME =

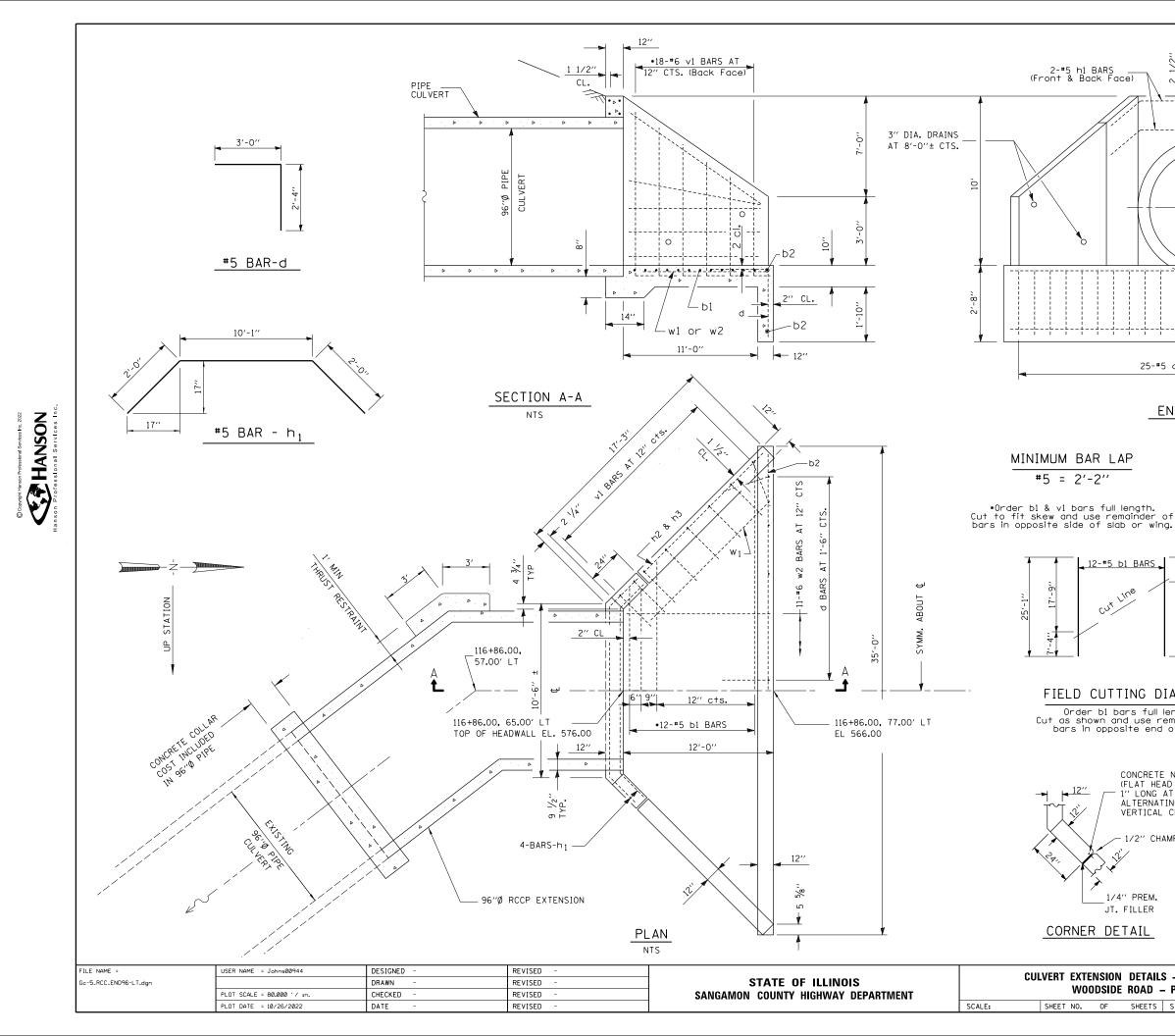
Gc-1-wd20DP_9.dgn

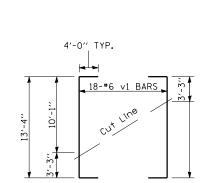


COUNTY TOTAL SHEETS NO.
SANGAMON 368 111 USER NAME = Johns00944 DESIGNED -REVISED SECTION STATE OF ILLINOIS DRAINAGE PLAN WOODSIDE ROAD 9 - PHASE 2 DRAWN REVISED 9652002F CONTRACT NO. 93671

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT 6

• 07-00164-04-FP, 07-00090-08-FP SANGAMON COUNTY HIGHWAY DEPARTMENT PLOT SCALE = 40.0000 '/ in. CHECKED REVISED PLOT DATE = 10/26/2022 DATE REVISED SCALE: SHEET NO. OF SHEETS STA.





— SYMM. ABOUT ¢ EL 576.00

- EL 566.00

25-#5 d BARS AT 1'-6" CTS.

END ELEVATION

v1 BARS

AT 12" CTS.

FAN 5-#5 h3 BARS (Cut to Fit) (Back Face)

_3-#5 h2 BARS (Back Face)

MINIMUM BAR LAP

12-#5 b1 BARS

FIELD CUTTING DIAGRAM

Order b1 bars full length.
Cut as shown and use remainder of bars in opposite end of slab.

1/4" PREM.

CULVERT EXTENSION DETAILS - 1 (STA 117 + 30)

WOODSIDE ROAD - PHASE 2

SHEET NO. OF SHEETS STA.

CONCRETE NAILS (FLAT HEAD C.S.) - 1" LONG AT 12" ALTERNATING VERTICAL CENTERS.

1/2" CHAMFERS

FIELD CUTTING DIAGRAM

Order v1 bars full length.
Cut as shown and use remainder of bars in opposite end of wing.

BILL OF MATERIAL										
BAR	NO.	SIZE	LEN	GTH	WEIGHT					
	REQ'D		(FT)	(IN)	(LB)					
d	25	5	5	4	139.07					
b1	12	5	25	1	313.94					
b2	2	5	34	8	72.31					
h1	4	5	14	1	58.76					
h2	6	5	14	8	11.00					
h3	10	5	15	11	166.01					
v1	18	6	21	4	576.77					
w1	2	6	15	6	46.56					
w2	11	6	11	8	192.76					
	REINFO	LBS	1577							
	CONCRET	CY	21.6							

NOTE: THE THRUST RESTRAINT AND CONCRETE COLLAR SHALL BE INLCUDED IN THE COST

JT. FILLER	OF THE 96" CONCRETE PIPE. CONCRETE QUANTITIES FOR THESE ITEMS ARE NOT
CORNER DETAIL	INLCUDED IN THE CU YD TOTAL FOR CONCRETE BOX CULVERT.

TO STA.

96S2002F FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT 6 | 07-00164-04-FP, 07-00090-08-FP

SECTION

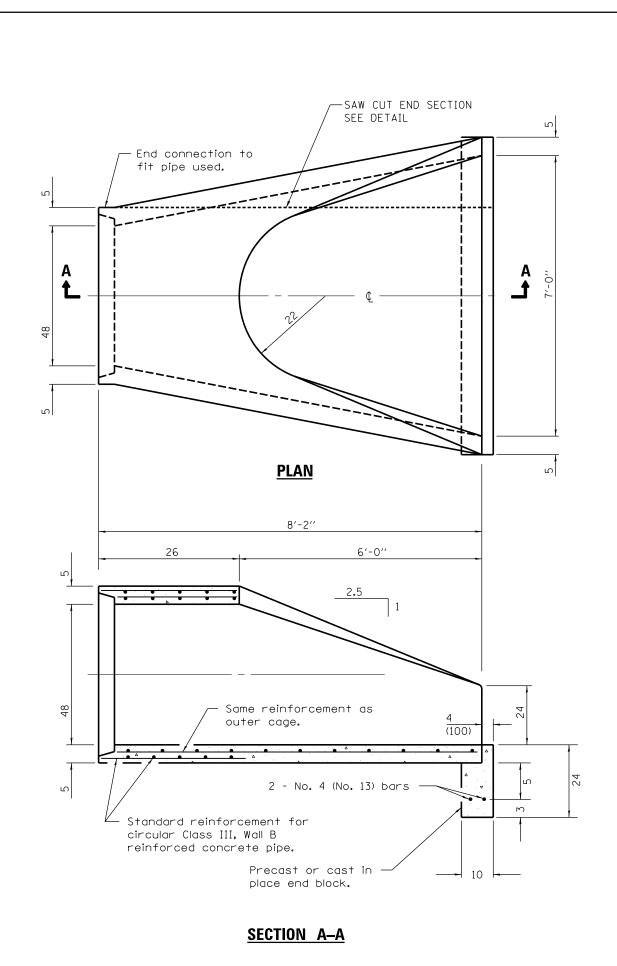
COUNTY

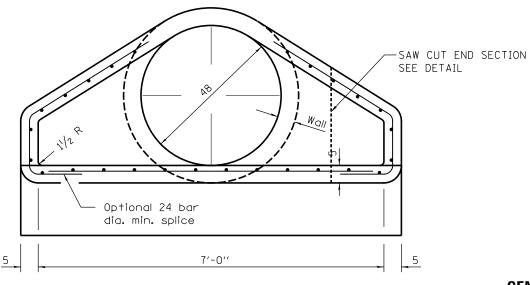
SANGAMON 368 112

CONTRACT NO. 93671

*13-#6 v2 BARS AT 12" CTS (Back Face)







END VIEW

SCALE:

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = USER NAME = Johns00944 DESIGNED -REVISED Gc-5_RCC_END48-RT.dgn DRAWN REVISED PLOT SCALE = 80.000 ' / in. CHECKED -REVISED PLOT DATE = 10/26/2022 DATE REVISED

STATE OF ILLINOIS SANGAMON COUNTY HIGHWAY DEPARTMENT **CULVERT EXTENSION DETAILS - 2 (STA 127+50)** WOODSIDE ROAD - PHASE 2 SHEET NO. OF SHEETS STA. TO STA.

COUNTY TOTAL SHEET NO.

SANGAMON 368 114 SECTION 96S2002F CONTRACT NO. 93671



FILE NAME =

Fc-1-INTERSECT_2001.dgn

	WOODSIDE ROAD AT IRON BRIDGE ROAD								
	STATION	OFFSET	¢ OR ₽Ł	NORTHING	EASTING	ELEVATION			
WA	98+00	0.00	WOODSIDE	1112378.322	2432821.047	597.27			
WB	98+03.82	36.00	WOODSIDE	1112342.401	2432825.549	596.64			
WC	98+25	39.55	WOODSIDE	1112339.256	2432846.796	596.53			
WD	98+50	0.00	WOODSIDE	1112379.273	2432871.038	597.21			
WE	98+50	32.00	WOODSIDE	1112347.279	2432871.647	596.73			
WF	99+50	0.00	WOODSIDE	1112381.176	2432971.020	597.09			
WG	99+50	32.00	WOODSIDE	1112349.182	2432971.629	596.61			
WH	99+83.47	32.81	WOODSIDE	1112349.009	2433005.110	596.47			
WI	100+00	0.00	WOODSIDE	1112382.128	2433021.011	597.06			
WJ	100+00	20.00	WOODSIDE	1112362.132	2433021.391	596.76			
WK	100+00	29.15	WOODSIDE	1112352.987	2433021.566	596.64			
WL	100+50	0.00	WOODSIDE	1112383.080	2433071.002	597.08			
WM	100+50	20.00	WOODSIDE	1112363.083	2433071.382	596.78			
WN	100+50	21.85	WOODSIDE	1112361.228	2433071.418	596.75			
WO	97+50	36.00	WOODSIDE	1112341.376	2432771.742	596.70			
WP	97+50	20.00	WOODSIDE	1112357.374	2432771.438	597.02			
WQ	97+50	0.00	WOODSIDE	1112377.370	2432771.057	597.32			
WR	97+50	-20.00	WOODSIDE	1112397.366	2432770.677	597.02			
WS	97+50	-37.77	WOODSIDE	1112415.131	2432770.338	596.63			
WΤ	97+09.71	-36.00	WOODSIDE	1112412.597	2432730.094	596.75			
WU	98+00	-32.00	WOODSIDE	1112410.316	2432820.439	596.96			
W۷	98+17.27	-48.75	WOODSIDE	1112427.392	2432837.386	596.43			
WW	98+50	-32.00	WOODSIDE	1112411.267	2432870.430	596.61			
WX	99+50	-32.00	WOODSIDE	1112413.171	2432970.411	596.49			
WY	100+09.13	-20.00	WOODSIDE	1112402.298	2433029.762	596.03			
WΖ	100+09.13	-48.75	WOODSIDE	1112418.295	2433029.457	595.89			
IΑ	711+00	-29.54	IRON BR	1112276.300	2432895.008	596.31			
ΙB	711+00	-21.00	IRON BR	1112276.575	2432902.803	596.44			
IC	711+00	0.00	IRON BR	1112277.335	2432923.790	596.76			
ID	711+00	21.00	IRON BR	1112278.056	2432944.777	596.44			
ΙE	711+00	33.00	IRON BR	1112278.479	2432956.770	596,20			
IF	711+05,44	33.00	IRON BR	1112283.887	2432956,582	596.19			
IG	711+19.03	-33.88	IRON BR	1112299.245	2432889.095	596.40			
ΙH	711+28.84	37.76	IRON BR	1112307.281	2432960.084	596.16			
II	711+50.88	-53.11	IRON BR	1112326,740	2432869,116	596.46			
IJ	711+50	-21.00	IRON BR	1112326.722	2432901.240	596.61			
IK	711+50	0.00	IRON BR	1112327.291	2432922.232	596.93			
IL	711+50	21.00	IRON BR	1112327.859	2432943,225	596.61			
IM	711+50	33.00	IRON BR	1112328.184	2432955.220	596.37			
IN	711+50	50.17	IRON BR	1112328.649	2432972.387	596.14			
IO	711+70.95	0.00	IRON BR	1112348.232	2432921.701	597.00			
ΙΡ	712+02,.95	0.00	IRON BR	1112380.225	2432921.029	597.15			
	,.55								
SA	97+72.71	37.50	WOODSIDE	1112340.309	2432794.481	596.57			
SB	97+95.02	37.50	WOODSIDE	1112340.734	2432816.782	596.54			
SC	97+96.32	49.74	WOODSIDE	1112328.521	2432818.319	596.76			
SD	98+03.10	42.30	WOODSIDE	1112336.085	2432824.948	596.91			
SE	711+50.85	-64.49	IRON BR	1112326.408	2432857.747	596.82			
SF	711+40.96	-64.47	IRON BR	1112316.412	2432858.038	596.67			
SG	711+40.97	-46.03	IRON BR	1112316.950	2432876.475	596.33			
			27.07.	1112010100		555,55			

USER NAME = Johns00944

PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 10/26/2022

DESIGNED - JDS

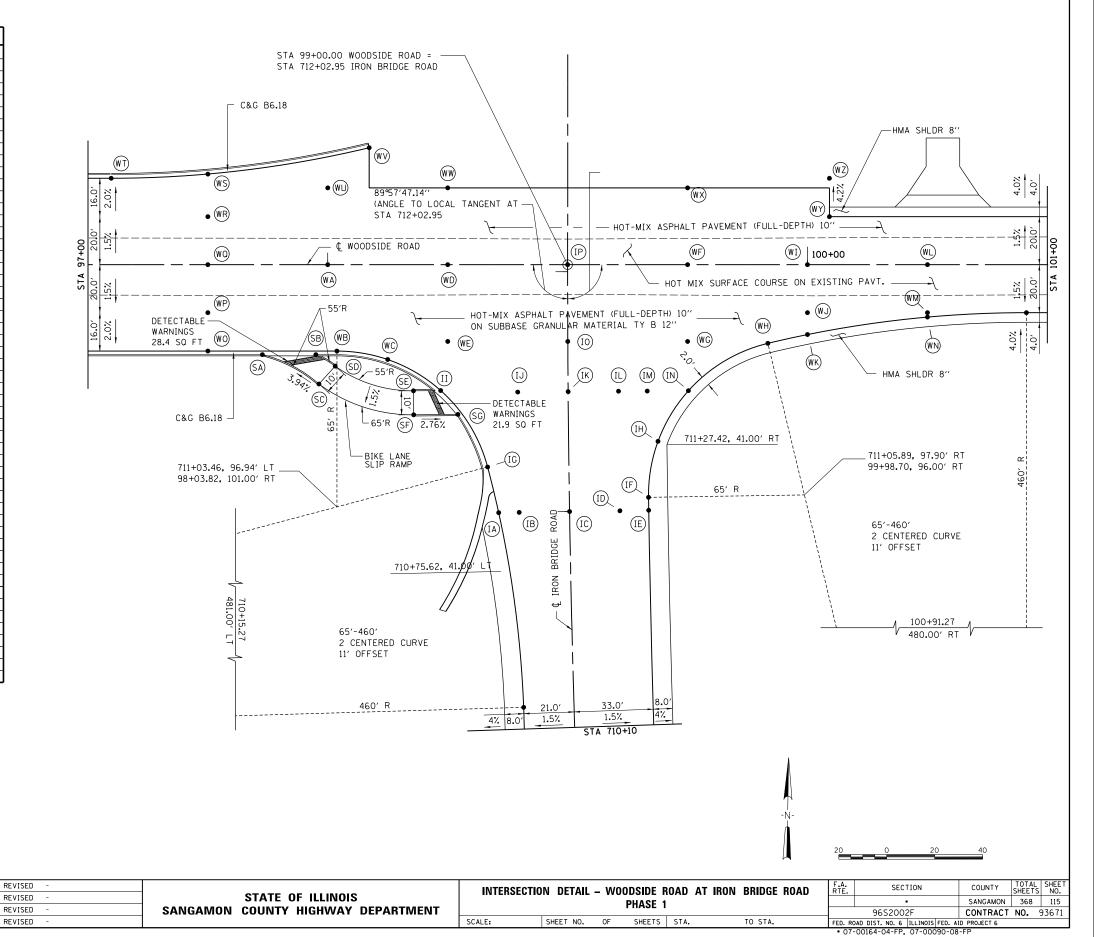
- JDS

- 8/24/2020

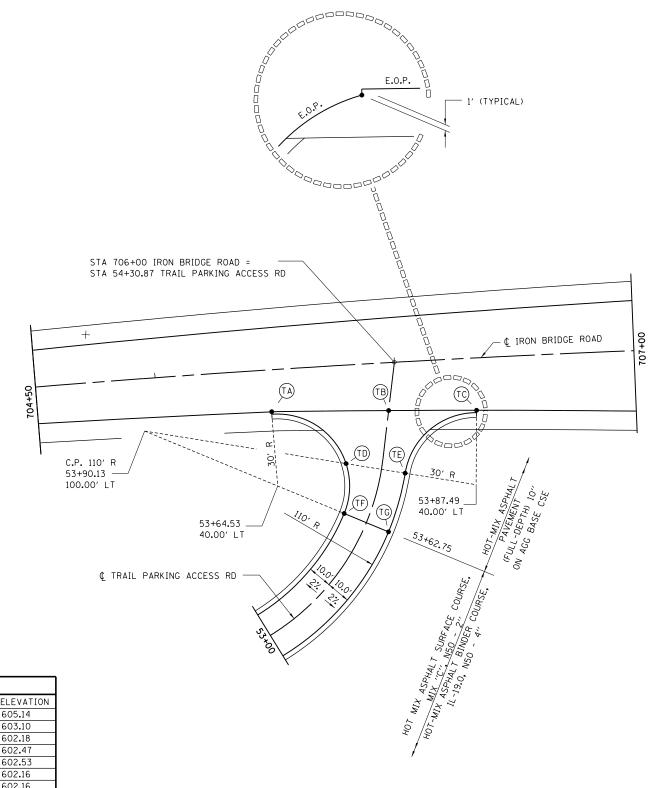
DRAWN

DATE

CHECKED -







	IRON BRIDGE ROAD AT TRAIL PARKING ACCESS ROAD									
	STATION	OFFSET	¢ OR ₽	NORTHING	EASTING	ELEVATION				
TΑ	705+47.62	-17.46	IRON BR	1111729.102	2432985.536	605.14				
ТВ	54+10.60	0.00	TRAIL PARKING	1111777.747	2432982.105	603.10				
TC	706+33.21	21.83	IRON BR	1111814.336	2432979.764	602.18				
TD	53+85.91	-14.95	TRAIL PARKING	1111761.365	2433005.259	602.47				
TE	53+85.91	10.00	TRAIL PARKING	1111786.195	2433007.737	602.53				
TF	53+62.75	-10.00	TRAIL PARKING	1111761.848	2433026.074	602.16				
TG	53+62.75	10.00	TRAIL PARKING	1111780.762	2433032.577	602.16				

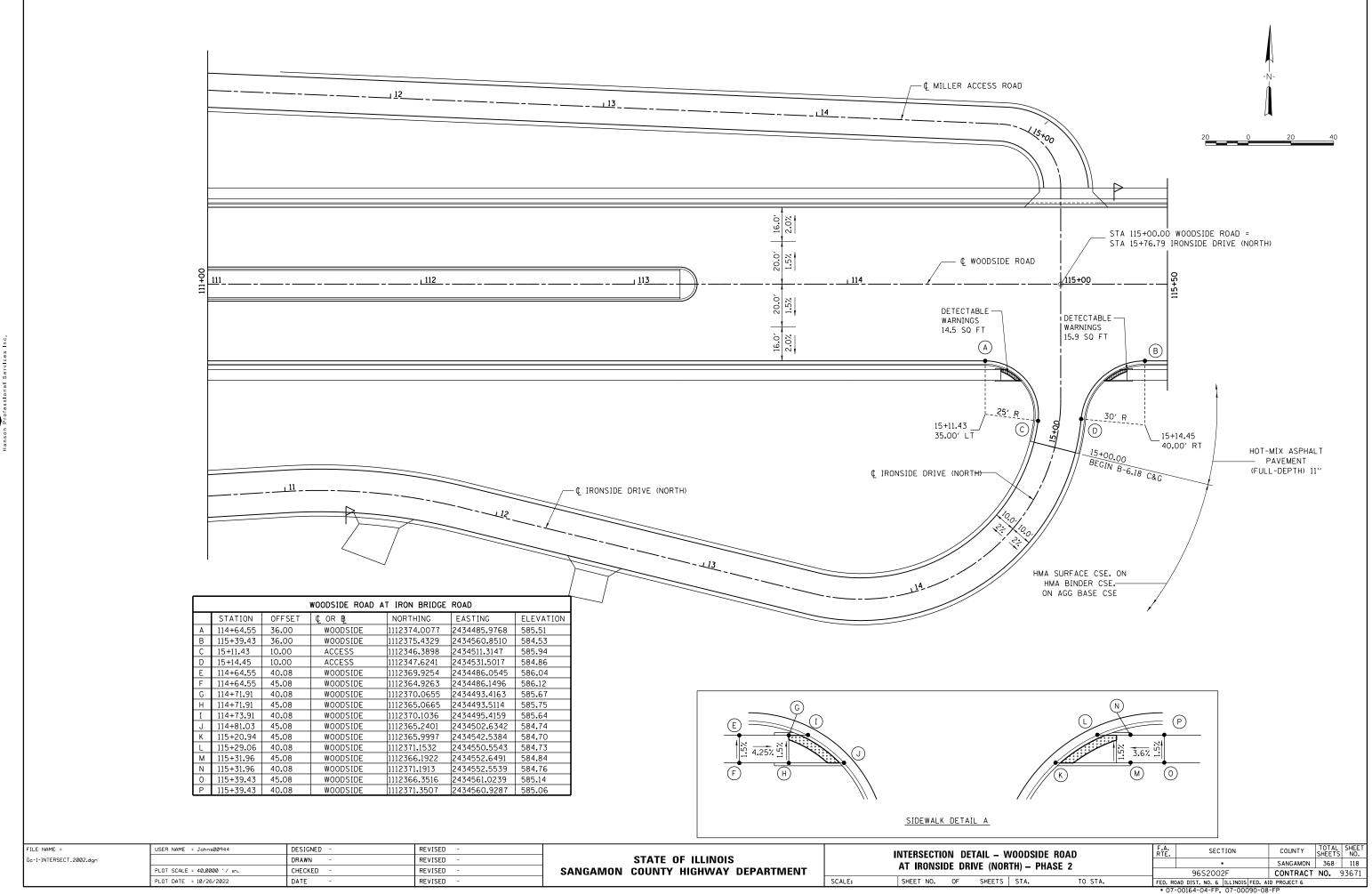
COUNTY TOTAL SHEETS NO.
SANGAMON 368 116 FILE NAME = USER NAME = Johns00944 DESIGNED - JDS REVISED SECTION INTERSECTION DETAIL - IRON BRIDGE ROAD STATE OF ILLINOIS Fc-1-INTERSECT_2002.dgn DRAWN - JDS REVISED 9652002F CONTRACT NO. 93671
FED. ROAD DIST. NO. 6 | ILLINOIS| FED. AID PROJECT 6

• 07-00164-04-FP, 07-00090-08-FP AT TRAIL PARKING ACCESS ROAD - PHASE 1 SANGAMON COUNTY HIGHWAY DEPARTMENT PLOT SCALE = 40.0000 '/ in. CHECKED - JWM REVISED PLOT DATE = 10/26/2022 DATE - 8/24/2020 REVISED SHEET NO. OF SHEETS STA.



	WOODSIDE ROAD A	T IRON BRIDGE ROAD		C&G B6.24	(MR)	460' R
STATION		NORTHING EASTING	ELEVATION		\sim \mid \mid \mid \mid	C&G B6.24
A 710+89.18 B 711+40.87		1112267.7216 2432957.1589 1112319.8095 2432980.200				
C 711+66.77		11123144.8608 2432954.7916			1 11 11	1.5% 2.48% (8)
D 99+83.74	48.81 WOODSIDE	1112333.0171 2433005.681			;	2 4 40, (12) (14)
E 100+50.00		1112345.2069 2433071.7238	I 503.34	NSITION FROM COMB C&B B6.18—		
F 100+91.70 G 99+00.02		1112347.8796 2433113.3804 1112344.2316 2432921.7340	10	B6.24 AT BACK OF CURB 98+64.57, 103.99 LT	M MN MN	
Н 99+00.02		1112360.2287 2432921.4295	314	38164.31, 103.33 E1	†	MO MP 2.337 19 1 3 13 96 8 9 11 10
I 99+00.00		1112372.2261 2432921.1813	- 		1	SIDEWALK DETAIL A
J 99+00.00 K 99+50.00		1112400.2211 2432920.648 1112345.1828 2432971.7061		00' LT —	1	
L 99+50.00		1112361.1799 2432971.4016			1	TRANSITION FROM COMB C&B B6.18 TO B6.24 AT BACK OF CURB
M 99+50.00		1112373.1778 2432971.1732	- 		1 11 11	STA 99+50.45, 78.08 LT
N 99+50.00 0 99+50.00		1112401.1727 2432970.640 1112417.1698 2432970.335	- 	65′ R (MH)	1 11 11	
P 100+00.00		1112346.1344 2433021.6970	- 	, C&G B	36.12	_ \\
Q 100+00.00		1112362.1315 2433021.3925	- 			• MK 713+04.02, 109.07' RT
R 100+00.00		1112374.1294 2433021.1641	- 	<u>`</u>	n)	C&G B6.24
S 100+09.13 T 100+09.13		1112378.3024 2433030.2189 1112402.2981 2433029.761	- 		_	713456 FA IN SEE SIDEWALK DETAIL A
U 100+09.13		1112418.2952 2433029.457		·		(MC) $\sqrt{\frac{1127000.94}{57.80'_{\odot}RT}}$ $\underline{\omega}$
V 100+50.00		1112363.0831 2433071.3839	CTA	99+00.00 WOODSIDE ROAD =	1,49	O O DETECTABLE
W 100+50.00 X 100+50.00		1112375.0810 2433071.1551 1112379.0802 2433071.0790	393.02 CTA	712+02.95 IRON BRIDGE ROAD •MC		
Y 100+50.00		1112403.0759 2433070.622	3 33.00	C&G B6.18		
Z 100+50.00	0 -36.00 WOODSIDE	1112419.0730 2433070.317	- 	CONCRETE MEDIA	ΔN ₩.	DETECTABLE 77.50' LT
NA 710 - 75	O OO MACARTIUR	1110410 071 0470000 440	507.05	TYPE SB-6.12	Ē.	WARNINGS 20.6 SO FT
MA 712+35 MB 712+52.93	0.00 MACARTHUR 3 68.89 MACARTHUR	1112412.271 2432920.440 1112431.461 2432988.984	597.05 596.02	TYPE SB-6.12	9+00.00	5' PCC SIDEWALK 4"
MC 712+74.62		1112451.020 2432872.785	1 596 30	ш ш ш т т т т т т т т т т т т т т т т т	.18' LT MA	99+99.13
MD 712+70	-21.00 MACARTHUR	1112446.879 2432898.800	00.100	98+70.00	\ U _	36.00′ LT 100+12.33
ME 712+70 MF 712+70	0.00 MACARTHUR 21.00 MACARTHUR	1112447.266 2432919.796 1112447.652 2432940.792		20.00′ LT	//\/\	N) 37,50′ LT
MG 712+88.71		1112466.845 2432965.333		0 2		HOT-MIX ASPHALT PAVEMENT
MH 713+14.83		1112491.485 2432885.977	596.26	colici	\	(FULL-DEPTH) 11" 99+70.00 100+09.13 0 55 0 55 0 55
MI 713+00	-21.00 MACARTHUR	1112476.874 2432898.248				99+10,000 6,00' RT S W S W
MJ 713+00 MK 713+00	0.00 MACARTHUR 21.00 MACARTHUR	1112477.261 2432919.244 1112477.647 2432940.241	596 57	0 1	1	
ML 713+50	-33.00 MACARTHUR	1112526.645 2432885.331	596.15	89°57′47.14″	<u>~</u> `\	R W W O S S S
MM 713+50	-21.00 MACARTHUR	1112526.866 2432897.329		(ANGLE TO LOCAL TANGENT A	AT (H)	
MN 713+50 MO 713+50	0.00 MACARTHUR 21.00 MACARTHUR	1112527.252 2432918.325 1112527.638 2432939.321		51A (12+02.95		S S S S S S S S S S S S S S S S S S S
MP 713+50	35.39 MACARTHUR	1112527.638 2432953.713		90°02′12.86″	(G)	
MQ 713+96.62	2 -33.00 MACARTHUR	1112573.257 2432884.473	596.01	(ANGLE TO LI	OCAL /	
MR 713+96.62		1112573.834 2432917.468	596.57	TANGENT AT STA 712+02.9	₉₅	DETECTABLE
MS 713+96.62	2 33.00 MACARTHUR	1112574.470 2432950.462	596.19		JEP.	WARNINGS 20.0 SO FT
1 99+58.48		1112444.8633 2432978.291			- -	
2 99+67.68		1112435.0617 2432987.678		*		SEE SIDEWALK
3 99+76.90 4 99+76.90		1112445.2353 2432996.706 1112435.2371 2432996.896		",	Γn	DETAIL B 2+00
5 99+93.39		1112432.5654 2433013.435			_>	
6 99+96.89	-59.94 WOODSIDE	1112441.9951 2433016.764	3 596.34	(16)	SAV	
7 100+06.30		1112425.4701 2433026.484 1112431.9252 2433034.4118		1,31	AD	
8 100+14.35 9 100+15.72		1112431.9252 2433034.4118		(19)	RO4	710+89.18, 98.00' RT CONNECTOR
10 100+39.75	5 -36.00 WOODSIDE	1112418.8780 2433060.072	8 594.80	\(\frac{\cdots}{\cdots}\)	GE_	99+98.97, 112.00' RT
11 100+29.68		1112422.7685 2433049.925		(18)	BRIDGE	W CUT (A) 65'R
12 100+29.68 13 100+41.47		1112427.7676 2433049.829 1112422.9930 2433061.7160		// /		L DEP H
14 100+41.47		1112427.9921 2433061.620		(17) // \	N FULL	, , , , , , , , , , , , , , , , , , , ,
15 99+58.01	61.53 WOODSIDE	1112427.992 2433061.620	595.82		ب	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
16 99+66.24		1112325.650 2432988.316		SIDEWALK DETAIL B	" \i	
17 99+67.32 18 99+72.69		1112306.519 2432989.764 1112316.544 2432994.870			* 1	2 CENTERED CURVE 11' OFFSET
19 99+80.63	59.03 WOODSIDE	1112324.229 2433007.977				Z 41.00' RT
20 99+79.52	54.10 WOODSIDE	1112329.066 2433006.714	595.98	710+59.00 22.89' LT	<u> </u>	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
				22.89′ LT	710+00	T -N-
					12	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
* = MATCH E	EXISTING (BUTT JT, SAW CUT 1	1 1/2" DEEP)			1	\
				8.0′		21.0' 12.0' 8.0' 100+91.54 496.00' RT
				4%	1.5% 1	1.5% 2.0% 4% 496.00° R1
					709+75	5
ELE MANE	LICED MAIS AND TOTAL	DECTORED	DEWICED		103.13	
FILE NAME = Gc-1-INTERSECT_2001.dgn	USER NAME = Johns00944	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS		INTERSECTION DETAIL - WOODSIDE ROAD AT IRON BRIDGE ROAD F.A. SECTION COUNTY TOTAL SHEET
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	SANGAMON COUNTY HIGHWAY DEPAR	RTMENT	PHASE 2 • SANGAMON 368 117 96S2002F CONTRACT NO. 93671
	PLOT DATE = 10/26/2022	DATE -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 6 LLINOIS FED. AID PROJECT 6
						• 07-00164-04-FP, 07-00090-08-FP







PLOT SCALE = 40.0000 '/ in.

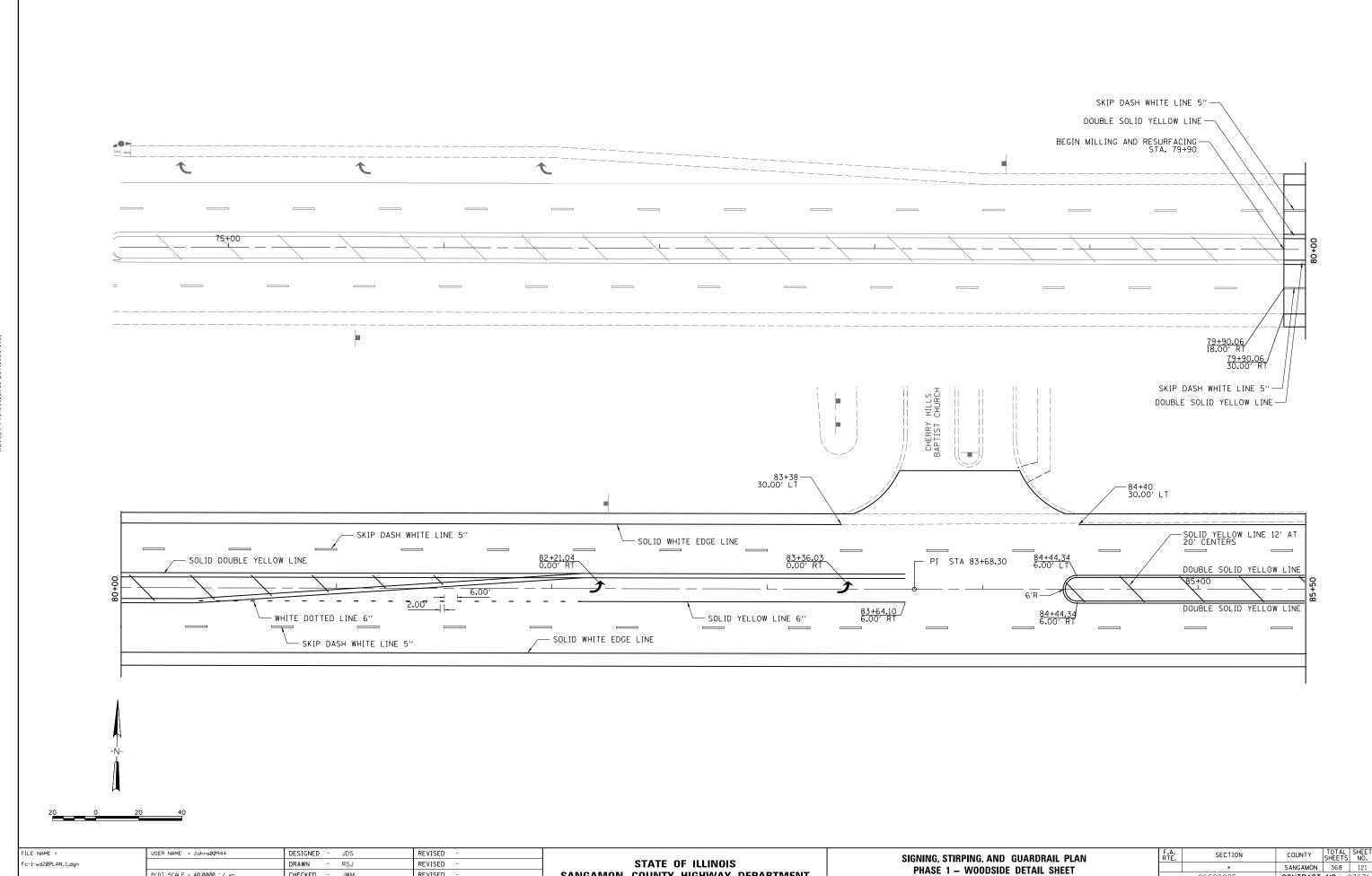
PLOT DATE = 10/27/2022

CHECKED - JWM

- 8/24/2020

REVISED

REVISED



SANGAMON COUNTY HIGHWAY DEPARTMENT

96S2002F

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT 6 * 07-00164-04-FP, 07-00090-08-FP

SHEET NO. OF SHEETS STA.

CONTRACT NO. 93671



PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 10/26/2022

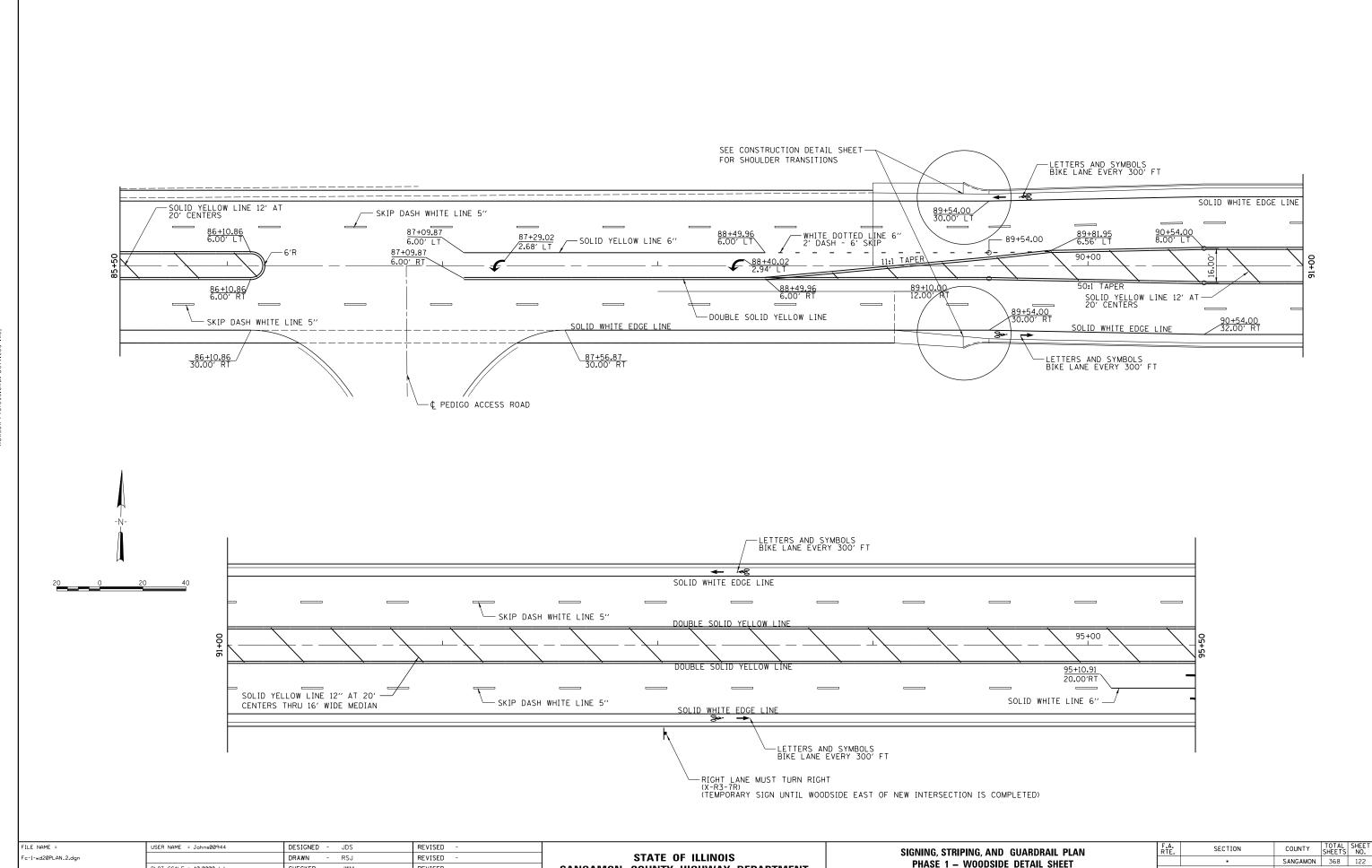
CHECKED - JWM

- 8/24/2020

DATE

REVISED

REVISED



SANGAMON COUNTY HIGHWAY DEPARTMENT

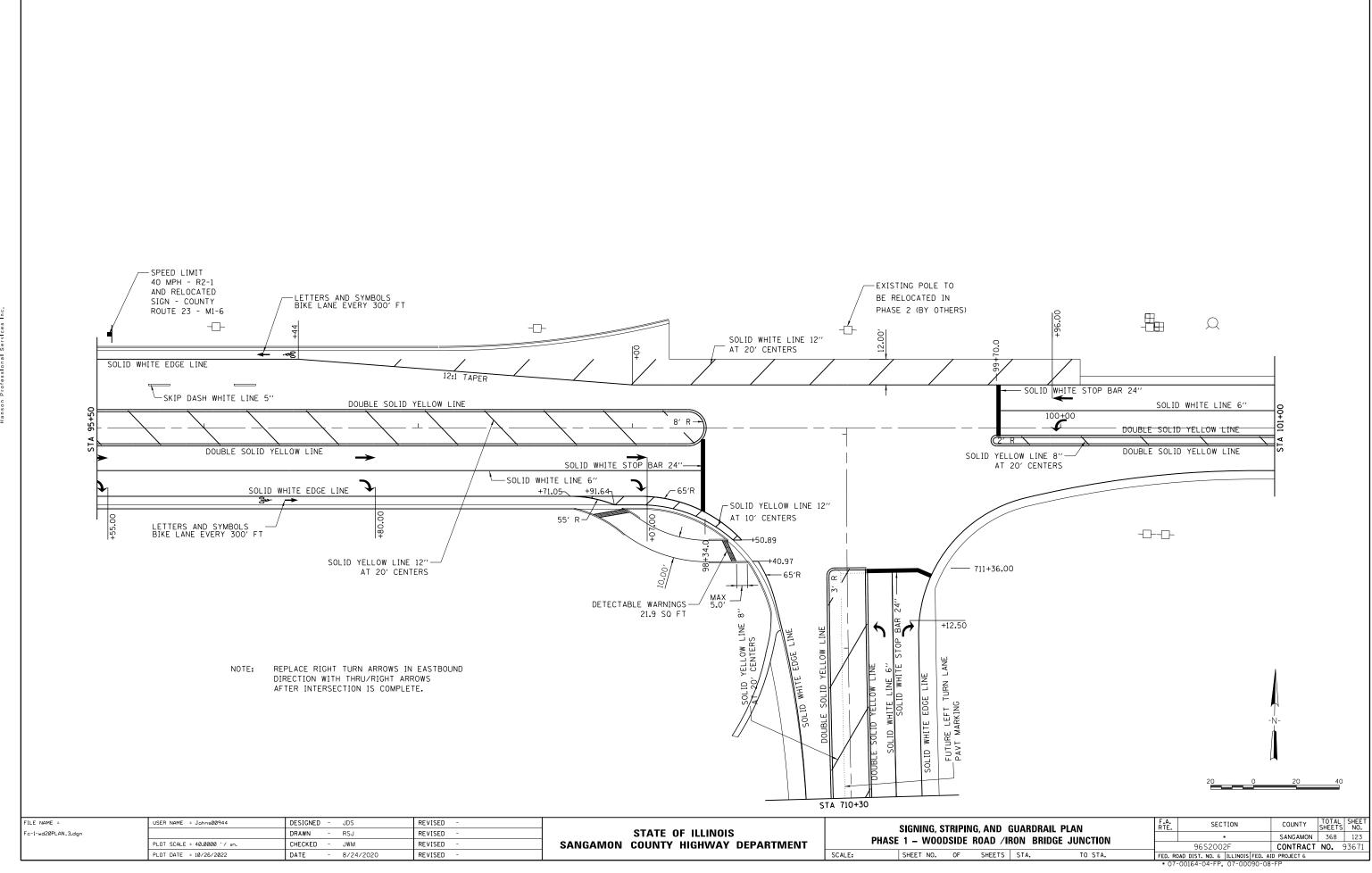
PHASE 1 - WOODSIDE DETAIL SHEET

SHEET NO. OF SHEETS STA.

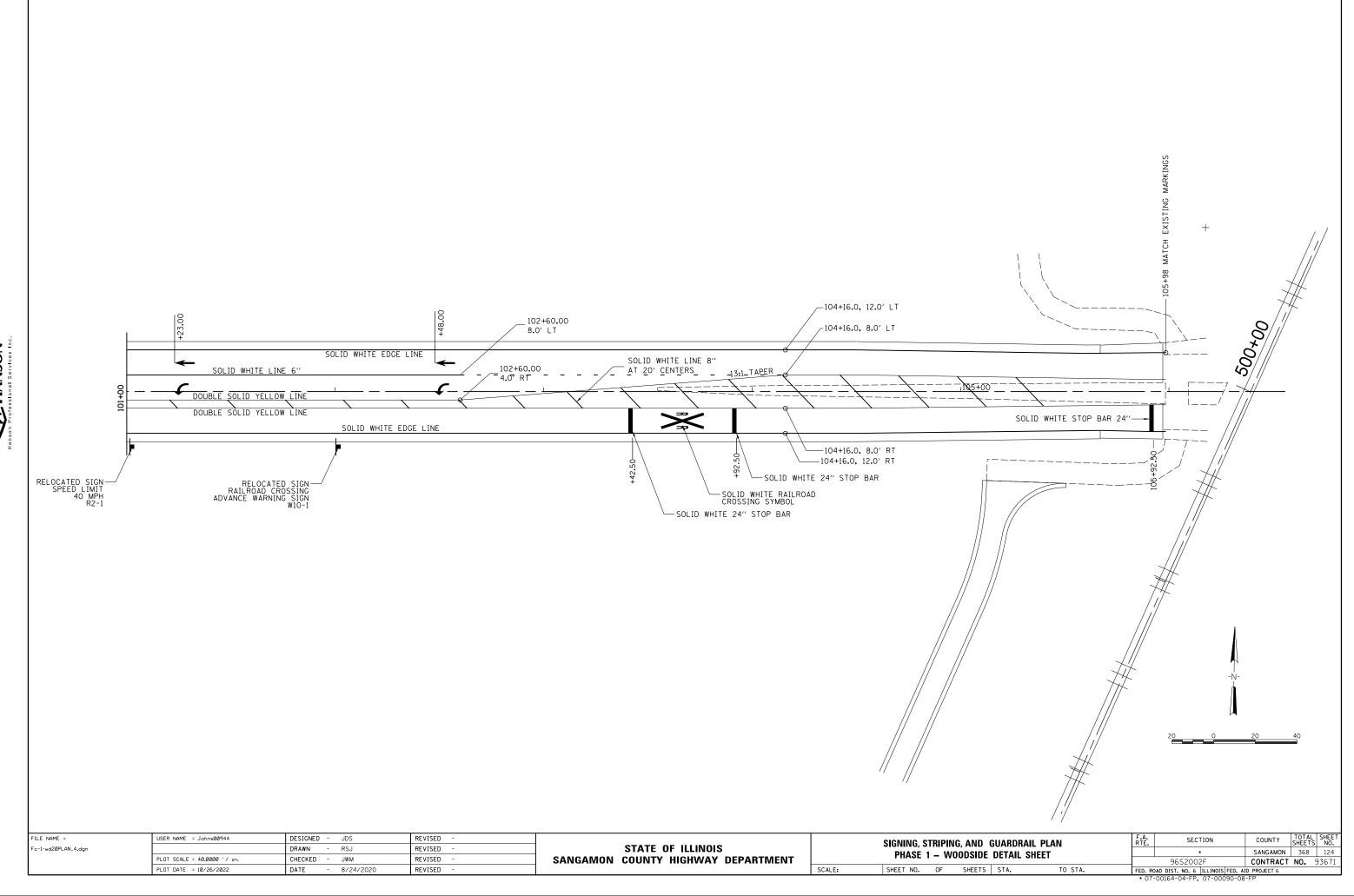
96S2002F

CONTRACT NO. 93671

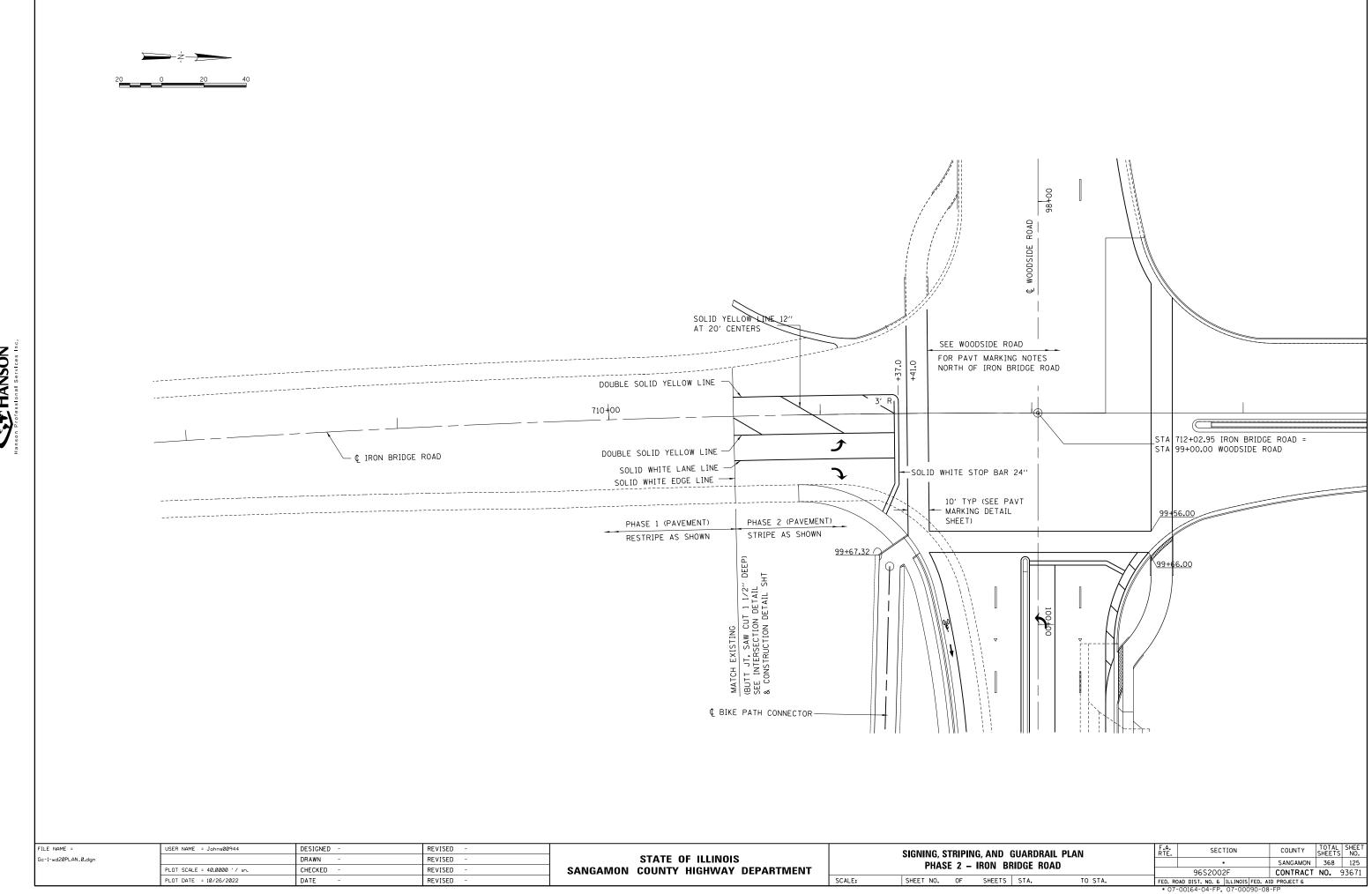




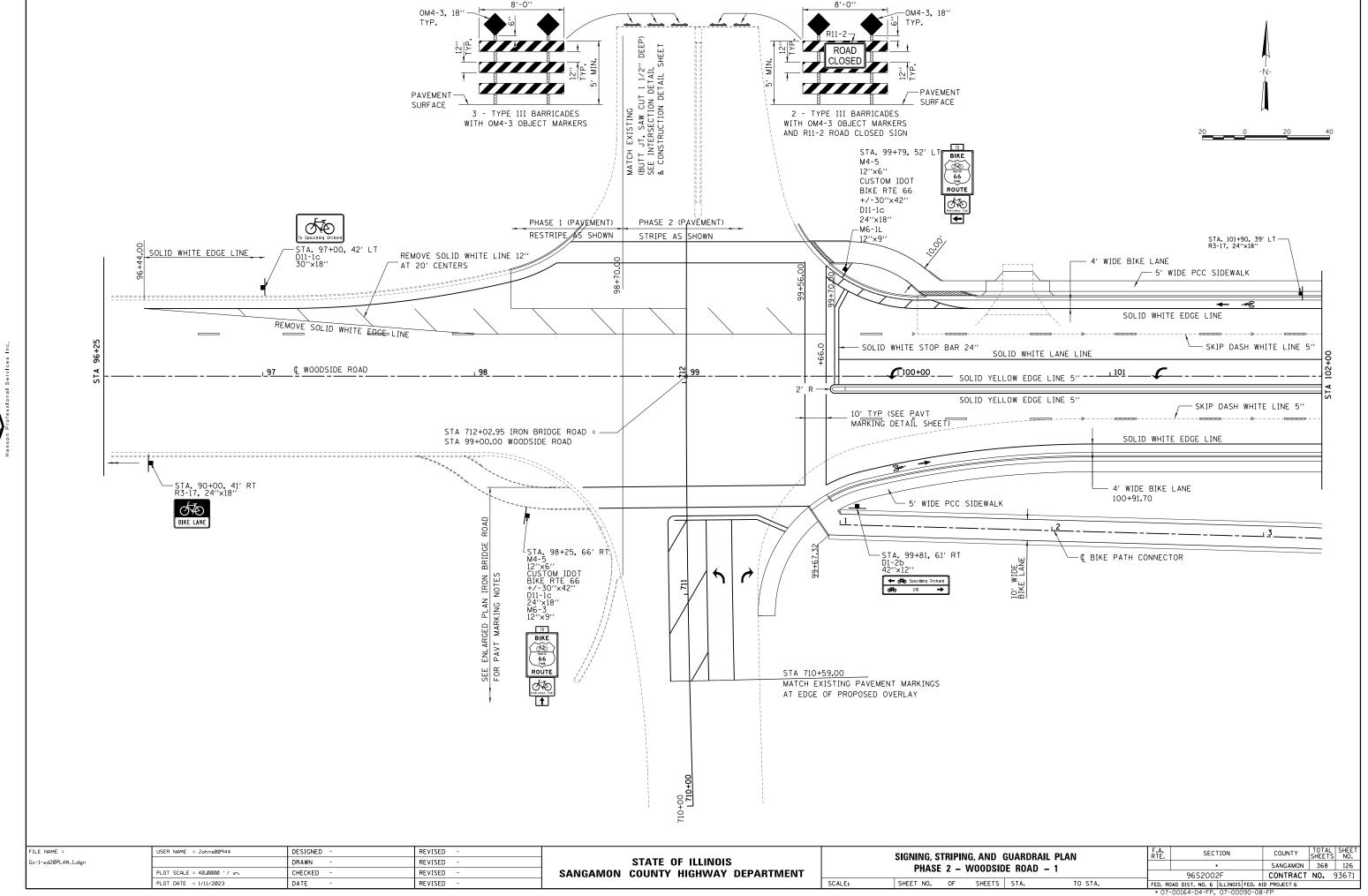




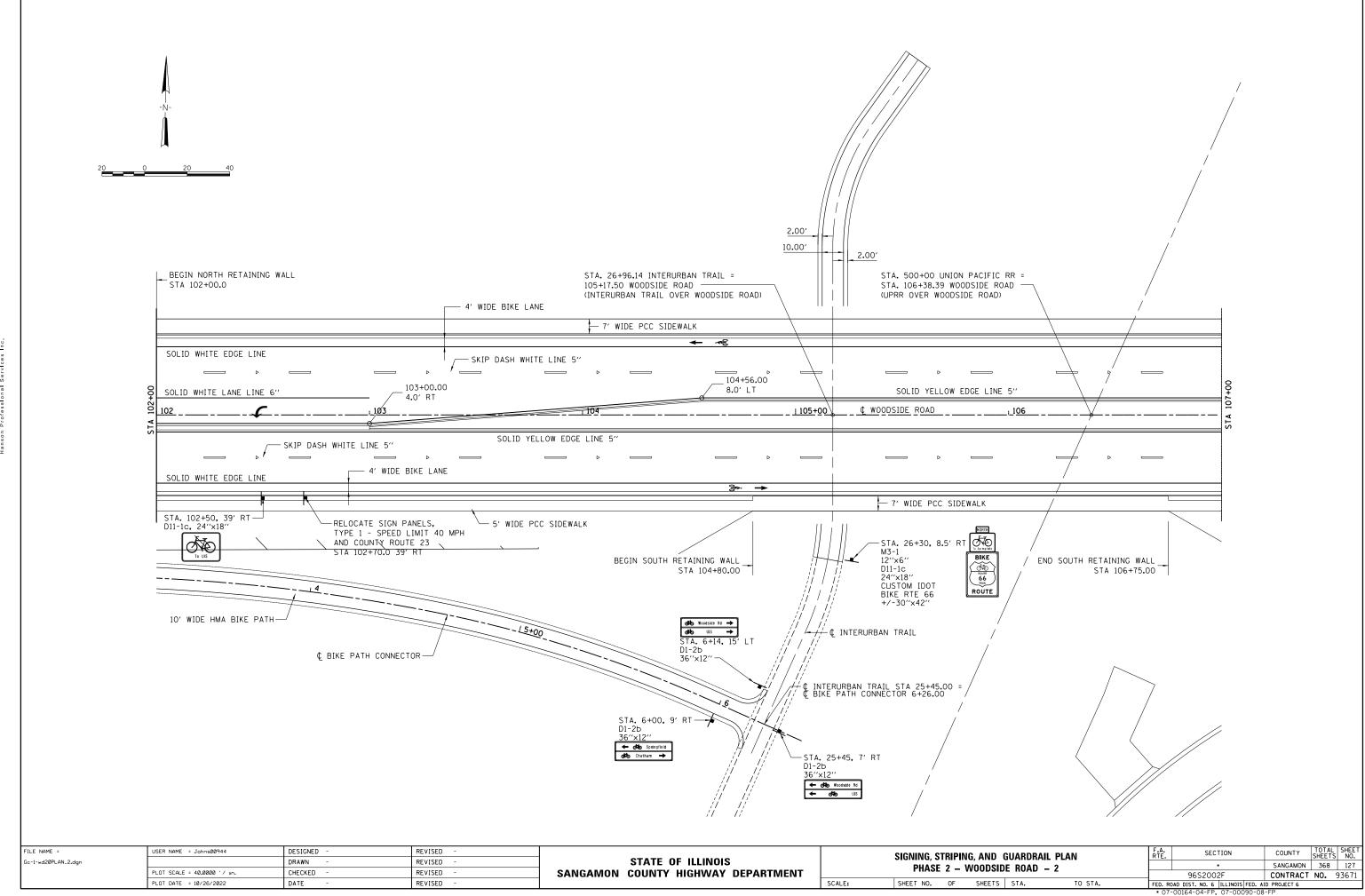






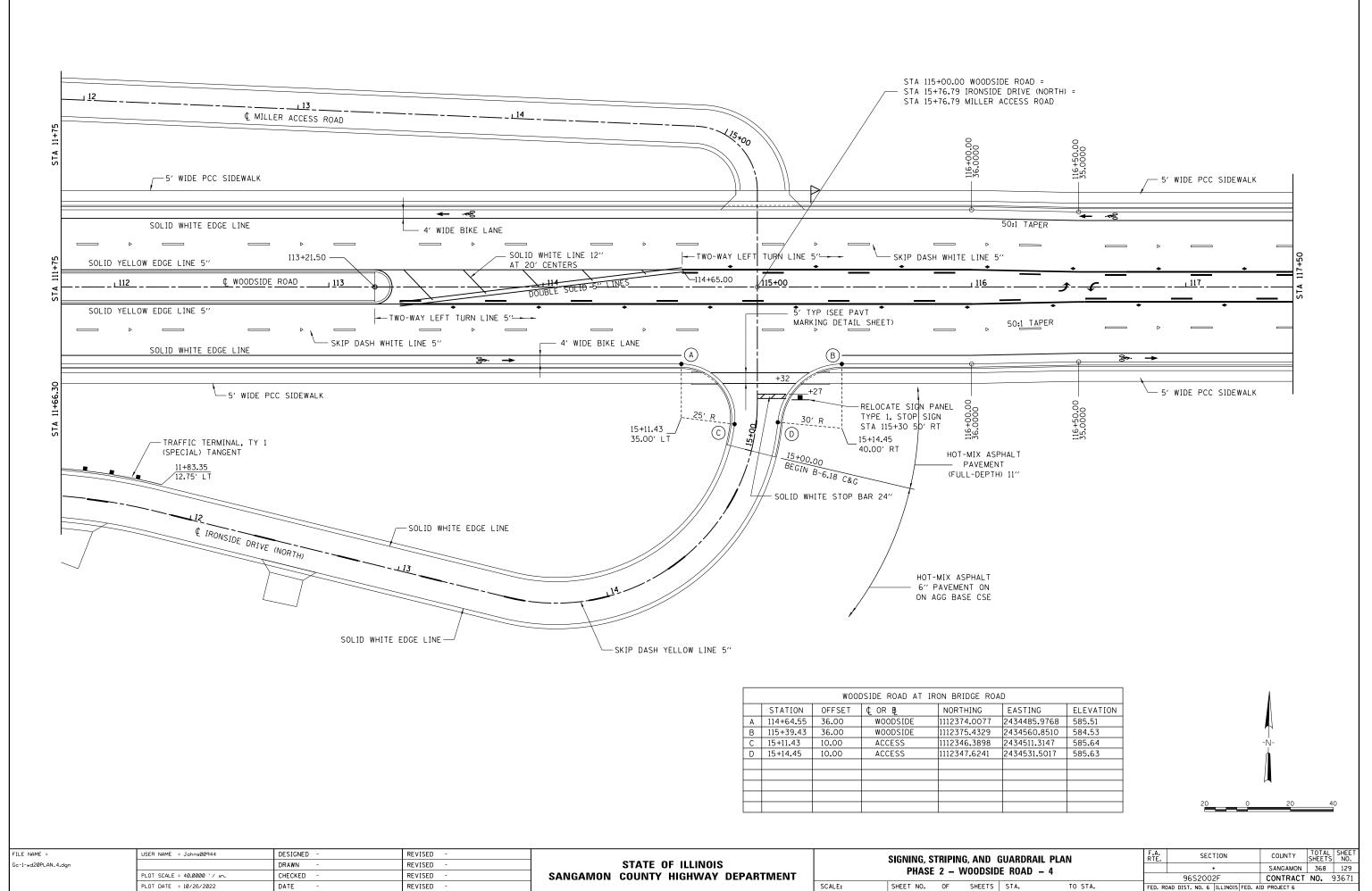












SCALE:

SHEET NO. OF SHEETS STA.

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP, 07-00090-08-FP

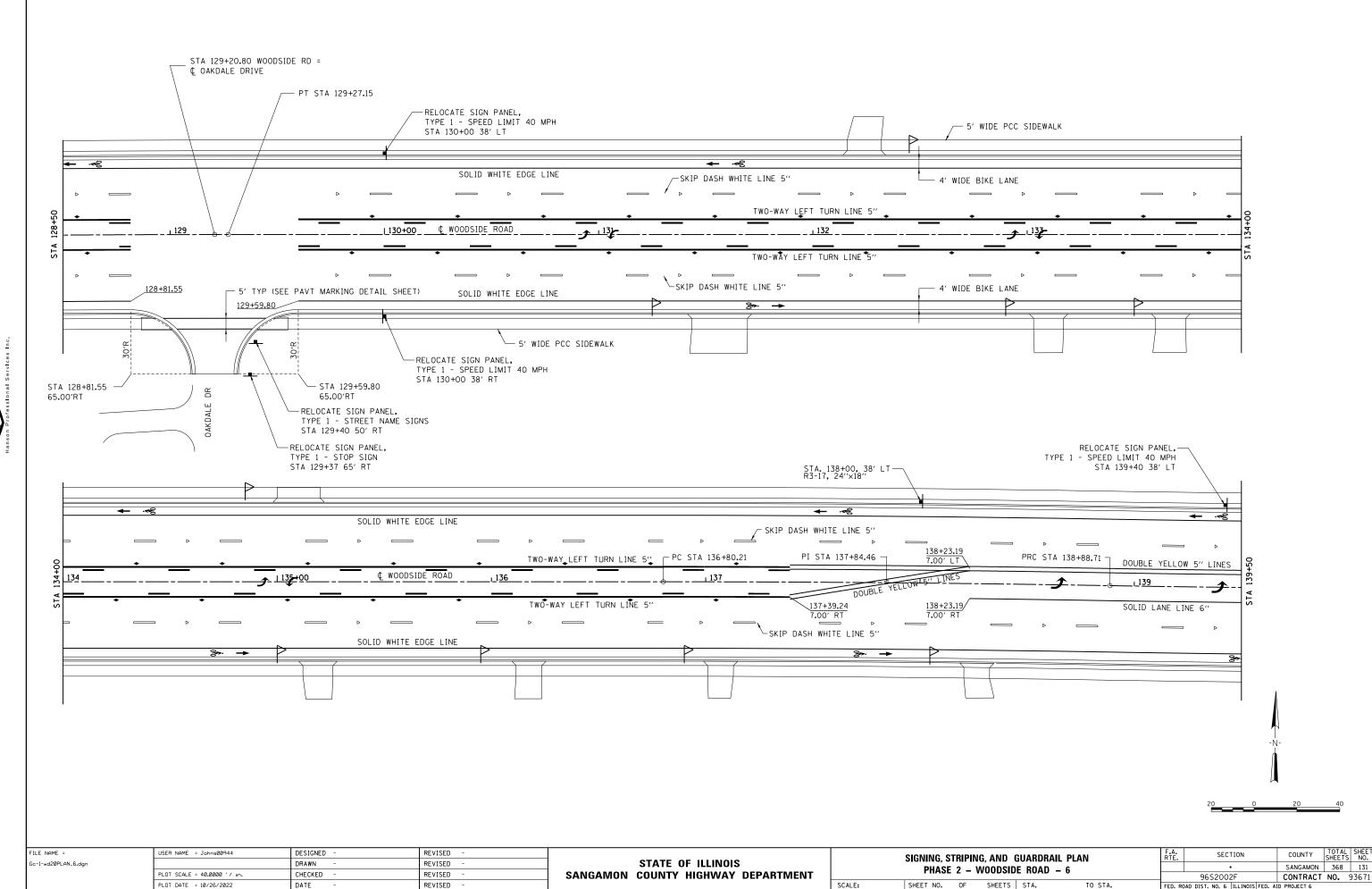


PLOT DATE = 10/26/2022

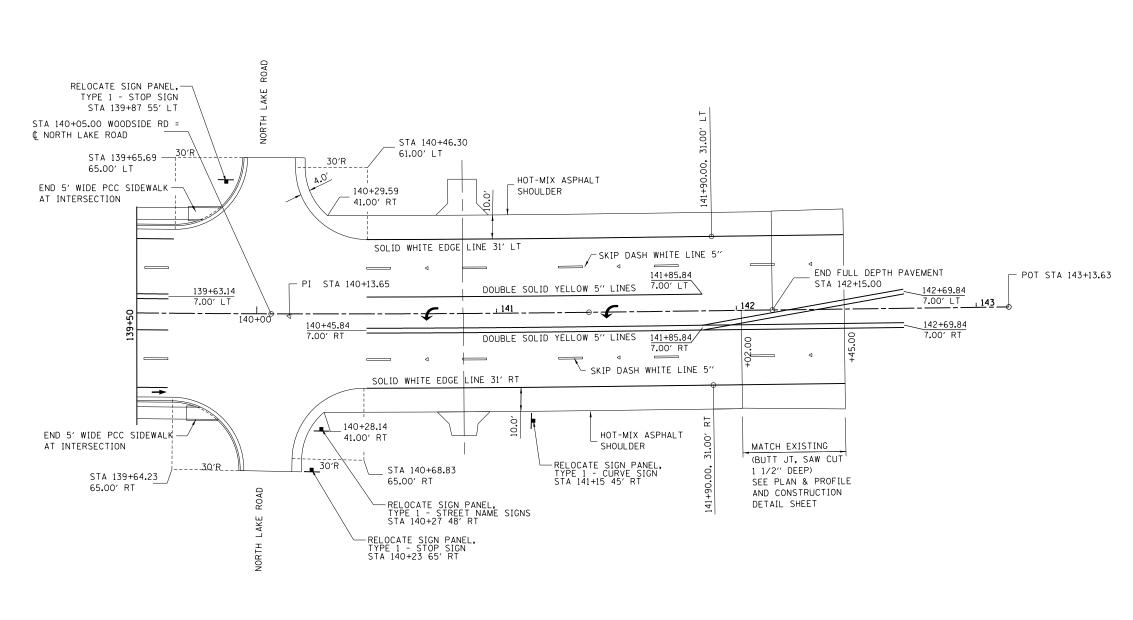
DATE

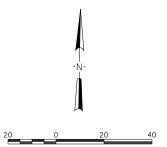
REVISED





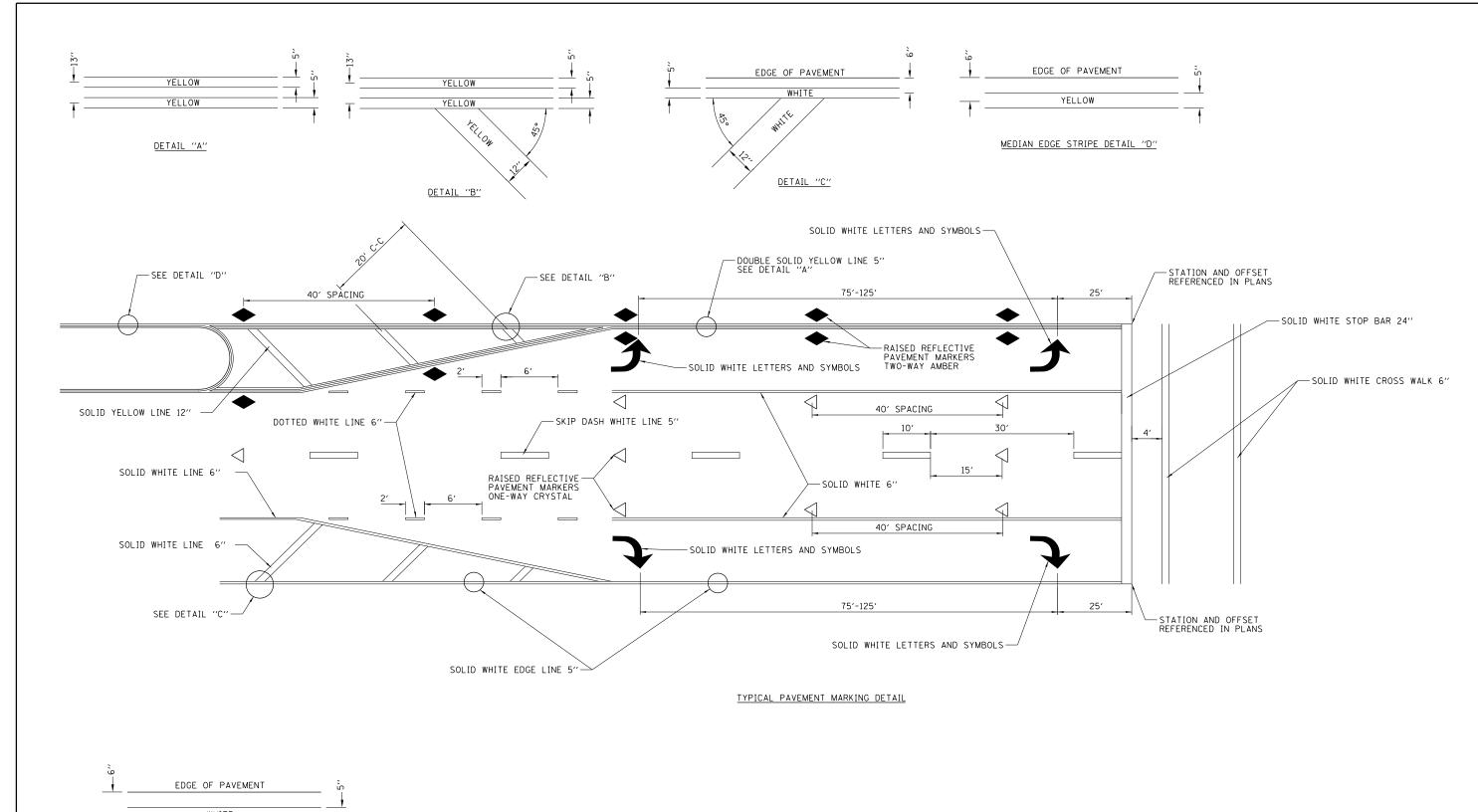






COUNTY TOTAL SHEET NO.
SANGAMON 368 132 FILE NAME = USER NAME = Johns00944 DESIGNED -REVISED SECTION SIGNING, STRIPING, AND GUARDRAIL PLAN STATE OF ILLINOIS Gc-1-wd20PLAN_7.dgn DRAWN REVISED PHASE 2 - WOODSIDE ROAD - 7 PLOT SCALE = 40.0000 '/ in. CHECKED REVISED SANGAMON COUNTY HIGHWAY DEPARTMENT 96S2002F CONTRACT NO. 93671 PLOT DATE = 10/26/2022 DATE REVISED SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT 6 * 07-00164-04-FP, 07-00090-08-FP





9	EDGE OF PAVEMENT	2,,
_	WHITE	
Ţ		Ť

EDGE STRIPE DETAIL "E"

FILE NAME =	USER NAME = Johns00944	DESIGNED -	REVISED -									F.A.U	SECTION	COUNTY	TOTAL	SHEET
FGc-5-MARKDTLS.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	PAVEMENT MARKING DETAILS – 1				- 1		•	SANGAMON	368	133		
	PLOT SCALE = 100.000 ' / 10.	CHECKED -	REVISED -	SANGAMON COUNTY HIGHWAY DEPARTMENT							96S2002F	CONTRACT		93671		
	PLOT DATE = 10/26/2022	DATE -	REVISED -		SCALE:	SHEET NO) . (OF	SHEETS	STA.	TO STA.		ROAD DIST. NO. 6 ILLINOIS FED. A			
												• 07	2 001C4 04 ED 07 00000 00	(FD		

• 07-00164-04-FP, 07-00090-08-FP

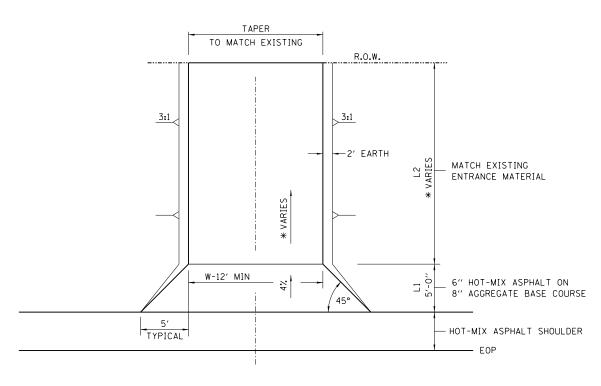
FED. ROAD DIST. NO. 6 ILLINOIS

• 07-00164-04-FP, 07-00090-08-F

FED. AID PROJECT 6

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT 6 | 07-00164-04-FP, 07-00090-08-FP





TYPICAL ENTRANCE TYPE 1 FIELD ENTRANCE / PRIVATE ENTRANCE

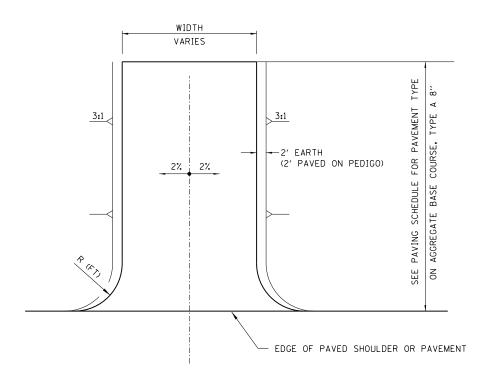
* SEE PLAN CROSS SECTIONS

GENERAL NOTES

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE: THEREFORE REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.



TYPICAL ENTRANCE TYPE 2

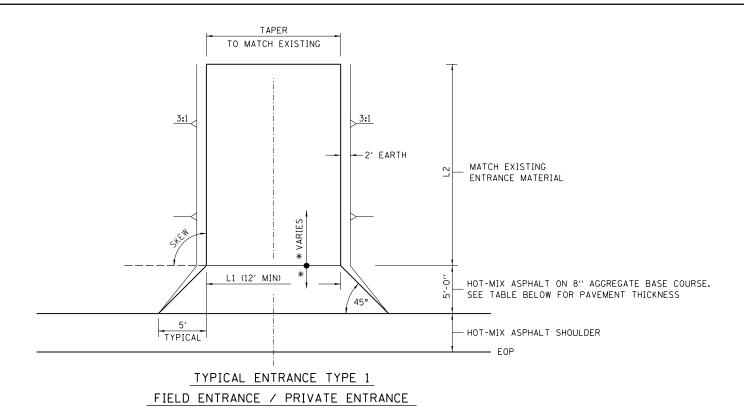
PRIVATE ENTRANCE - BAPTIST CAMP ROAD & RELOCATED PEDIGO LANE

		PHASE 1 -	ENTRANCE S	CHEDULE				
ROADWAY	NOTE	STATION	LT OR RT	SKEW	TYPE	WIDTH	L1	L2
IDON BRIDGE BOAR		600.05	I T	90°		10/	- F	16.6
IRON BRIDGE ROAD	P.E.	688+25			1	12'	5′	16.6
IRON BRIDGE ROAD	P.E.	688+98.7	LT	90°	1	24′	5′	10.0
IRON BRIDGE ROAD	P.E.	689+16	RT	90°	1	12'	5′	11.0′
IRON BRIDGE ROAD	P.E.	689+57.0	LT	112°	1	16′	5′	24.4
IRON BRIDGE ACCESS BAPTIST CAMP ROAD	P.E.	9+98.07	RT	LT AH 1°	2	16.5′		l)=20′ 5)=20′
IRONSIDE DRIVE (SOUTH)	P.E.	10+65.70	RT	90°	1	12'	5 . 0′	10.0
IRONSIDE DRIVE (SOUTH)	P.E.	12+40.79	RT	90°	1	12'	4.8	6.2
IRONSIDE DRIVE (SOUTH)	P.E.	13+59.62	RT	90°	1	12'	4.7'	6.3′
IRONSIDE DRIVE (SOUTH)	P.E.	13+94.59	RT	LT AH 5°	1	12'	4.7'	11.4
IRONSIDE DRIVE (SOUTH)	P.E.	14+61.07	RT	LT AH 5°	1	12'	4.7'	14.9
WOODSIDE ROAD	P.E.	83+89.48	LT	90°	2	49.2'	-	20′
WOODSIDE ROAD	F.E.	100+56.5	LT	90°	1	30'	5′	23.8
WOODSIDE ROAD REPLACE PEDIGO LANE	P.E.	86+83.06	RT	90°	2	24′	R= 8	5'-45 ' 0/S
PEDIGO LANE	F.E.	103+00.0	LT	90°	1	30′	5′	16.0
PEDIGO LANE	F.E.	116+50.0	RT	90°	1	24′	0′	10.4

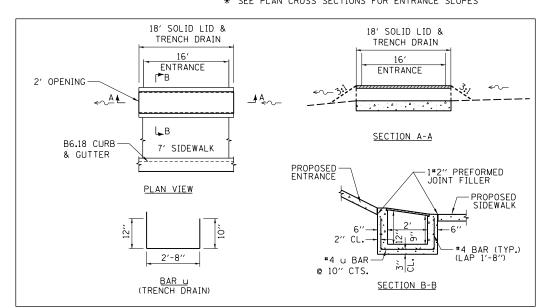
FILE NAME =	USER NAME = johns00944	DESIGNED - JDS	REVISED -			ENTRANCE DET		F.A.U RTF	SECTION	COUNTY TOTAL SHEET
Fc-5-ENT_DTLS.dgn		DRAWN - JDS	REVISED -	STATE OF ILLINOIS				*****	•	SANGAMON 368 137
	PLOT SCALE = 100.000 ' / in.	CHECKED - JWM	REVISED -	SANGAMON COUNTY HIGHWAY DEPARTMENT		PHASE 1 — IRON BRI	DGE KUAD		96S2002F	CONTRACT NO. 93671
	PLOT DATE = 5/1/2023	DATE - 8/24/2020	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROA		AID PROJECT 6

• 07-00164-04-FP, 07-00090-08-FP





* SEE PLAN CROSS SECTIONS FOR ENTRANCE SLOPES



TRENCH DRAIN DETAIL WOODSIDE ENT STA 121+43 LT

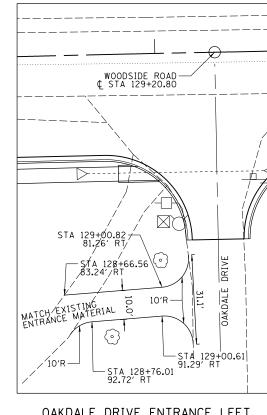
GENERAL NOTES

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES. SIDE ROADS ARE PRESENT ON THIS

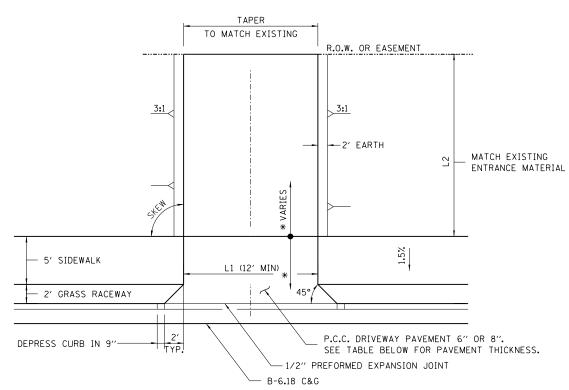
THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE: THEREFORE REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY PAY ITEMS CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

ENTRANCE SKEW ANGLES ARE MEASURED ON THE UPSTATION END OF THE ENTRANCE TO THE ADJACENT SIDEWALK OR SHOUDLER. ALL ENTRANCE OPENINGS ARE CONSTRUCTED 90° TO THE CENTERLINE. SKEWS ARE INCLUDED BEYOND THE APRON TO CONNECT THE PROPOSED ENTRANCE TO THE EXISTING ENTRANCE.



OAKDALE DRIVE ENTRANCE LEFT



TYPICAL ENTRANCE TYPE 2 FIELD ENTRANCE / PRIVATE ENTRANCE

* SEE PLAN CROSS SECTIONS FOR ENTRANCE SLOPES

		PHASE 2	- ENTRANCE	SCHEDULE				
ROADWAY	NOTE	STATION	LT OR RT	SKEW	TYPE	WIDTH L1	LENGTH L2	THICKNESS
IRONSIDE DRIVE (NORTH)	P.E.	7+30.82	RT	94° 43′	1	12'	13.0′	6''
IRONSIDE DRIVE (NORTH)	P.E.	8+51.51	RT	120° 03′	1	12'	13.7′	6"
IRONSIDE DRIVE (NORTH)	P.E.	9+50.00	RT	90°	1	16′	15.0′	6"
IRONSIDE DRIVE (NORTH)	P.E.	11+51.49	RT	110° 17′	1	18′	18.5′	6′′
IRONSIDE DRIVE (NORTH)	P.E.	12+50.00	RT	90°	1	16′	12.7′	6′′
WOODSIDE ROAD	F.E.	100+56.5	LT	90°	2	30′	4.3′	6′′
WOODSIDE ROAD	P.E.	119+14.5	LT	90°	2	20'	49′	8′′
WOODSIDE ROAD	P.E.	121+43	LT	87° 58′	2	16′	73′	8′′
WOODSIDE ROAD	P.E.	121+73.5	RT	90°	2	14'	14.8′	6′′
WOODSIDE ROAD	P.E.	122+84	RT	87° 23′	2	12'	15.2′	6′′
WOODSIDE ROAD	P.E.	126+21.5	LT	90°	2	17'	16′	8′′
WOODSIDE ROAD	P.E.	127+04	RT	49° 55′	2	12'	21′	6′′
WOODSIDE ROAD	P.E.	127+34.5	RT	114° 38′	2	12'	17.0′	6′′
WOODSIDE ROAD	P.E.	131+56.5	RT	90°	2	26′	11.3′	6′′
WOODSIDE ROAD	P.E.	132+24	LT	96° 10′	2	16′	11'	8′′
WOODSIDE ROAD	P.E.	133+10	RT	90°	2	14'	11'	6′′
WOODSIDE ROAD	P.E.	133+67	RT	90°	2	14'	11'	6′′
WOODSIDE ROAD	F.E.	135+10	LT	90°	2	20'	0′	8′′
WOODSIDE ROAD	P.E.	135+19	RT	90°	2	14'	11'	6′′
WOODSIDE ROAD	P.E.	136+17.5	RT	90°	2	12'	10.5′	6′′
WOODSIDE ROAD	P.E.	137+07	RT	90°	2	12'	10.3′	6′′
WOODSIDE ROAD	P.E.	138+27	RT	96° 06′	2	12'	9.3′	6′′
WOODSIDE ROAD	P.E.	140+86	RT	90°	1	12'	5′	6′′
WOODSIDE ROAD	F.E.	140+86	LT	90°	1	12'	10′	8′′
CAROLE ROAD	P.E.	1+30.0	RT	90°	1	18.5′	NA	6′′
GRISSOM DRIVE	P.E.	8+70.5	RT	90° 34′	1	13′	4′	6′′
OAKDALE DRIVE	P.E.	SEE DETAIL	LT	90°	1	10'	34′	6′′

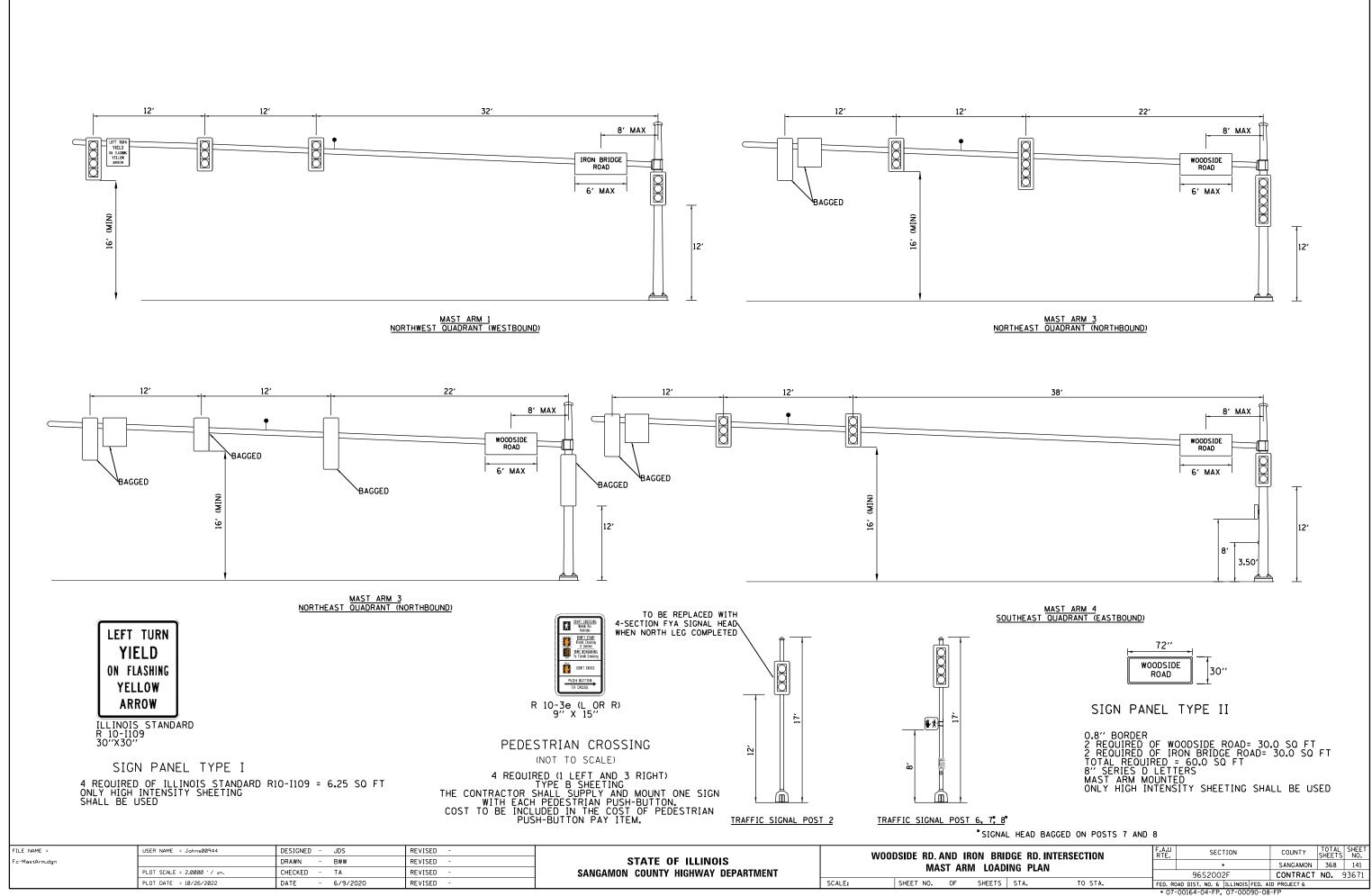
ILE NAME =	USER NAME = Johns00944	DESIGNED -	REVISED -
e-5-ENT_DTLS.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/26/2022	DATE -	REVISED -

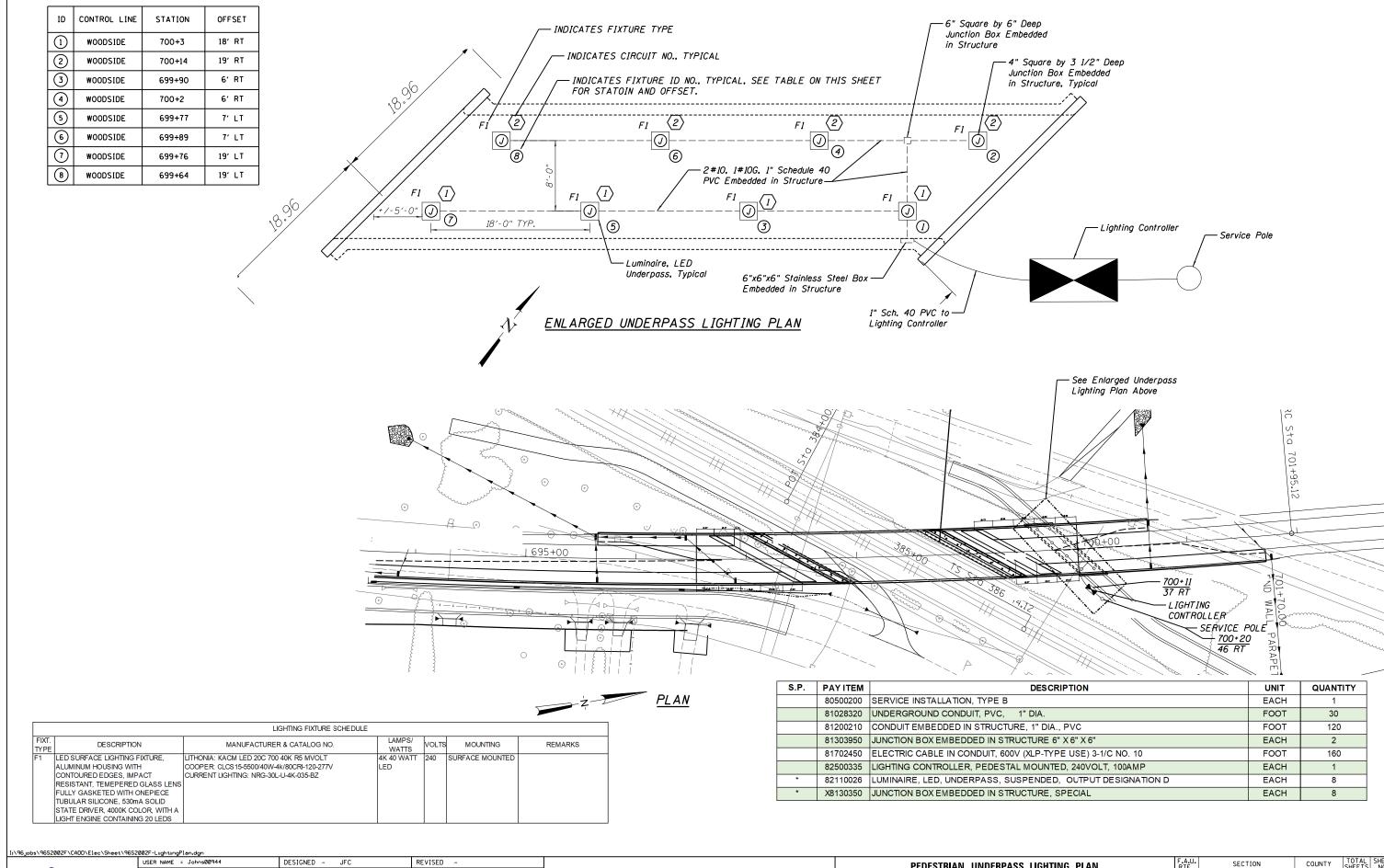
STATE OF ILLINOIS SANGAMON COUNTY HIGHWAY DEPARTMENT

SCALE:

	ENTR	RANCE DE	TAILS		F.A.U RTE.	SEC.	TION	COUNTY	TOTAL SHEETS	SHEET NO.
PHASE 2 - WOODSIDE ROAD					•	SANGAMON	368	138		
	101 2	110000	IDE HOA			96S2002	2F	CONTRACT	NO.	93671
SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RC	DAD DIST. NO. 6	ILLINOIS FED. A	D PROJECT 6		
					• 07-	-00164-04-FP,	07-00090-08	-FP		

HANSON





SPHANSON

CHECKED -REVISED PLOT SCALE = 0.1667 '/ in. DRAWN REVISED PLOT DATE = 10/26/2022 CHECKED -REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** PEDESTRIAN UNDERPASS LIGHTING PLAN SANGAMON 368 142 PHASE 1 - IRON BRIDGE ROAD CONTRACT NO. 93671 SHEET NO. 1 OF 4 SHEETS | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP, 07-00090-08-FP

UNDERGROUND CONDUIT, PVC, 3/4"/DIA.-

LIGHT POLE FOUNDATION.

₹ 🔄 ₹

LIGHTING CONTROLLER

UNIT DUCT

WOODSIDE RD. AND IRON BRIDGE RD.

LIGHTING PLAN

SCALE: 1" = 20' SHEET NO. OF SHEETS STA.

BRIDGE

IRON

STATE OF ILLINOIS

SANGAMON COUNTY HIGHWAY DEPARTMENT

LIGHT POLE WITH MAST ARM, TYPE H OUTPUT DESIGNATION.

TO STA.

1-UNIT DUCT, 600V, 3-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

WOODSIDE ROAD

ID

(B)

CONTROL LINE

WOODSIDE

WOODSIDE

WOODSIDE

WOODSIDE

WOODSIDE

WOODSIDE

WOODSIDE

96S2002F

PE

LIGHT POLE FOUNDATION.

JFC SKB

FILE NAME =

96S2002G-LightingPlan.dgn

CIRCUIT 1 20MP, 240 VOLT, SINGLE

PHASE, 856TOTAL LOAD

KEYED NOTES:

WIRES INDICATED ON THIS SHEET.

USER NAME = Johns00944

PLOT DATE = 10/26/2022

PLOT SCALE = 40.0000 '/ in.

ADJUST TERMINAL STRIPS LOCATED ON THE LOAD SIDE OF THE CIRCUIT BREAKERS IN THE LIGHTING CONTROLLER TO ACCEPT THE NUMBERS OF

DESIGNED - JFC

DRAWN - SKB

CHECKED

DATE

REVISED

REVISED

REVISED

REVISED

SECTION

UNIT

EACH

FOOT

EACH

FOOT

EACH

EACH

EACH

EACH

STATION OFFSET

56' LT

86' LT

67' LT

71' LT

78' RT

67' RT

79' RT

SANGAMON 368 143

CONTRACT NO. 93671

COUNTY

98+08

98+52

98+31

99+81

99+81

99+37

99+81

QUANTITY

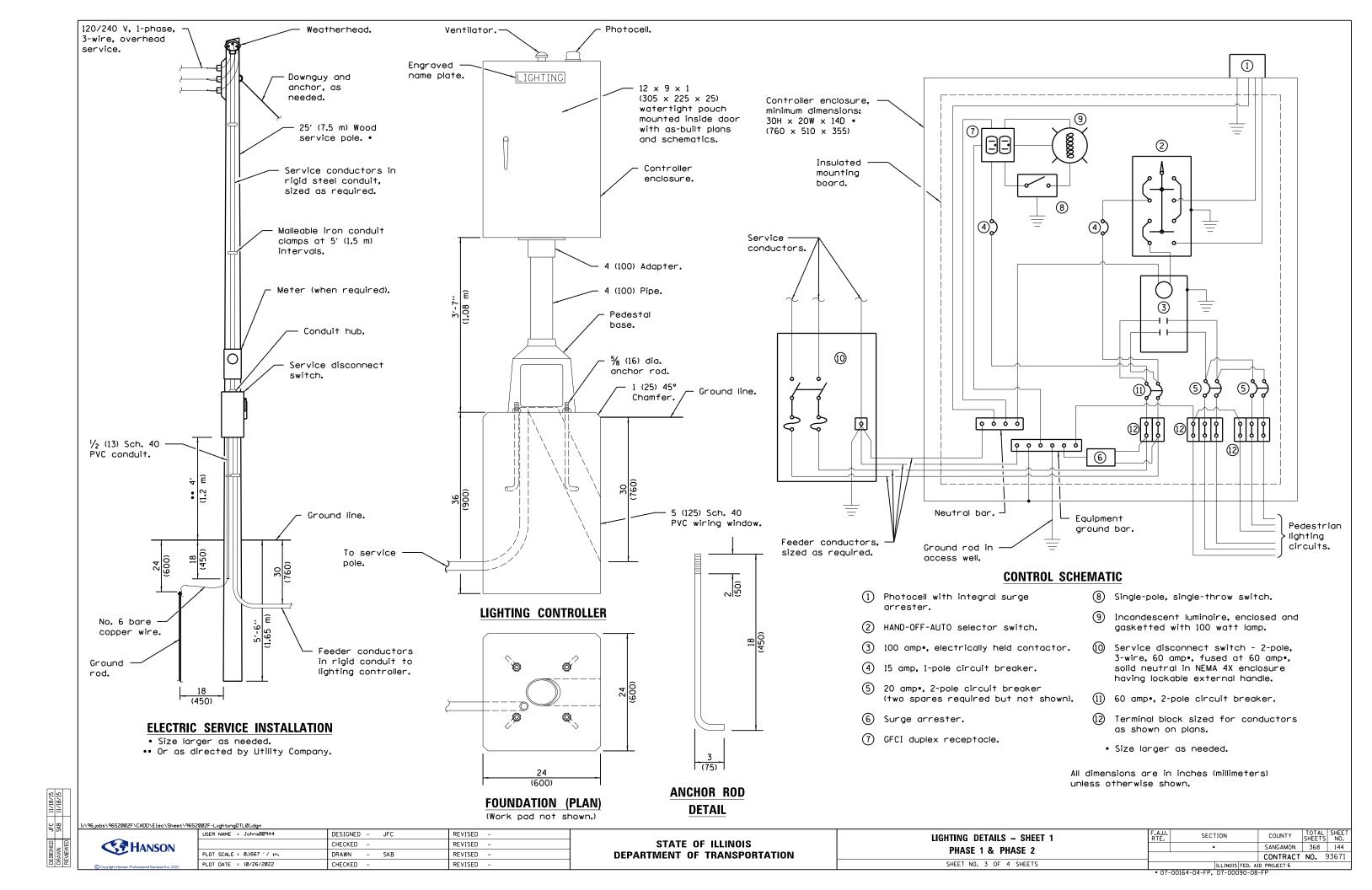
235

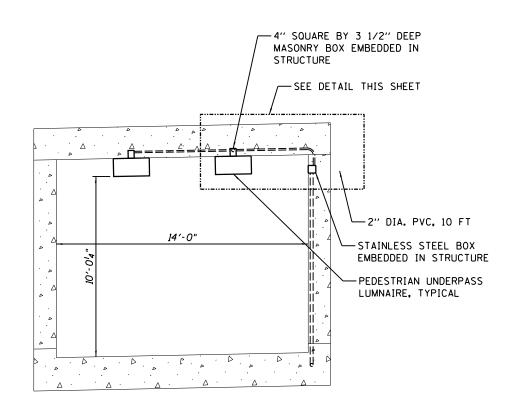
4

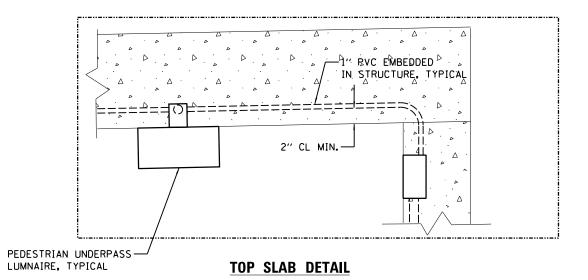
365

2

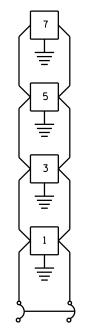
4







TYPICAL SECTION THRU BOX UNDERPASS



20 AMP, 2-POLE BREAKER

20 AMP, 2-POLE BREAKER

CIRCUIT 1

20 AMP, 240 VOLT, SINGLE PHASE, 148 VA TOTAL LOAD

CIRCUIT 2

20 AMP, 240 VOLT, SINGLE PHASE, 148 VA TOTAL LOAD

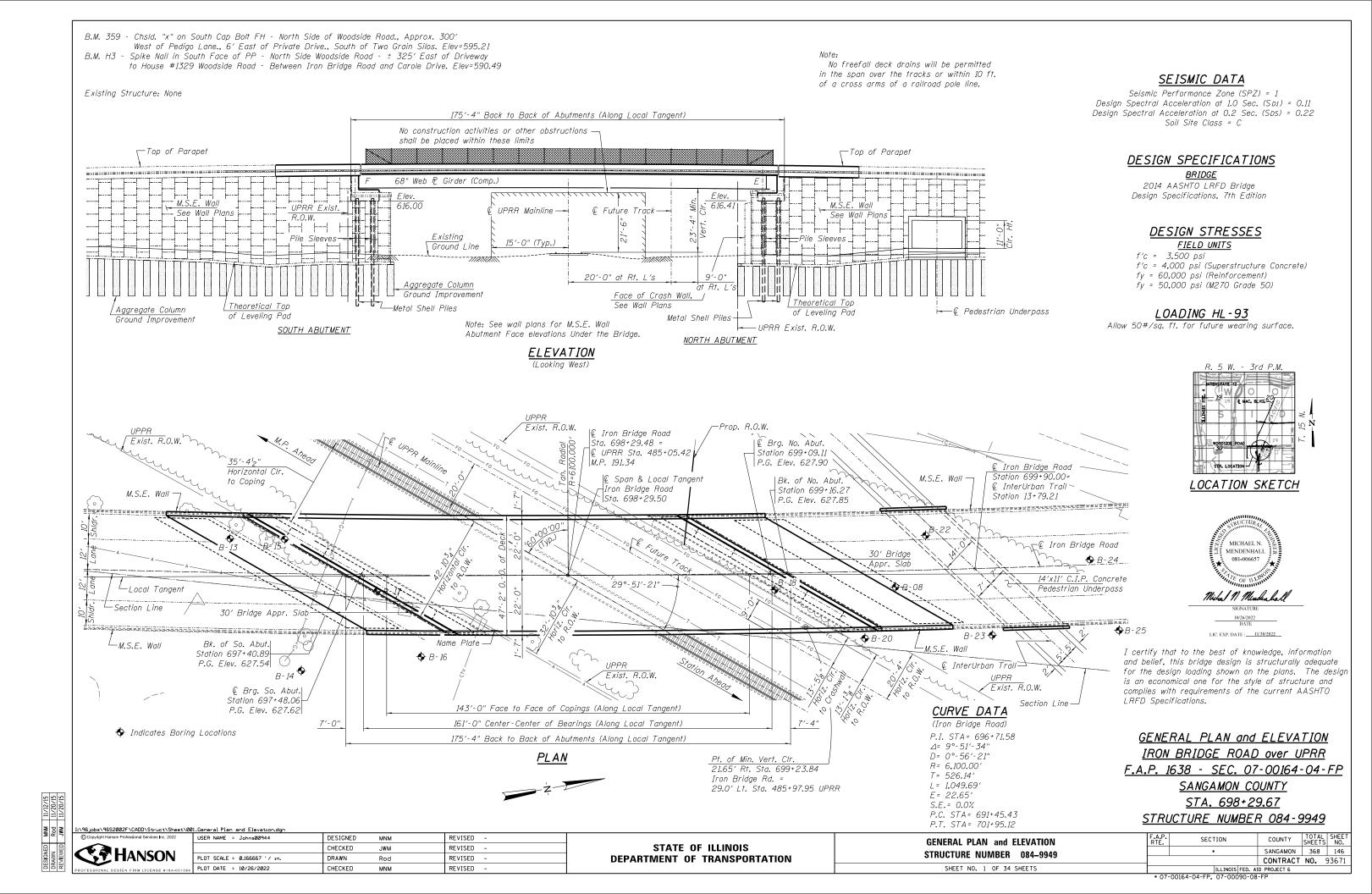
KEYED NOTES:

1 ADJUST TERMINAL STRIPS LOCATED ON THE LOAD SIDE OF THE CIRCUIT BREAKERS IN THE LIGHTING CONTROLLER TO ACCEPT THE NUMBERS OF WIRES INDICATED ON THIS SHEET.

s\96S2002F\CADD\Elec\Sheet\96S2002F-LightingDTL02.dgn



USER NAME = Johns00944	DESIGNED - JFC	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = 0.1667 '/ in.	DRAWN - SKB	REVISED -
PLOT DATE = 10/26/2022	CHECKED -	REVISED -



GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas, unless otherwise noted. Bolts $^{7}_{8}$ " ϕ , holes $^{15}_{16}$ " ϕ , unless otherwise noted.

Calculated weight of Structural Steel, AASHTO M270 Grade 50 = 415,020 lbs. AASHTO M270 Grade 36 = 11,370 lbs.

All structural steel shall be AASHTO M 270 Grade 50, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{l}_{g}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to the backwalls, seats, step areas and front face of the South and North Abutments.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell no. 2.5YR 3/4.

The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set either parallel to the skew or perpendicular to the centerline of bridge for striking off and screeding the concrete. Approach (and roadway) parapets may need to be poured after the deck to facilitate the bridge deck pour.

Slipforming of parapets is not allowed.

The calculated deflections of the primary girders under steel self-weight shall be used to detail cross frame connections and to erect structural steel such that the girders will be plumb within a tolerance of $\pm \frac{1}{8}$ " per vertical foot throughout when supporting their own weight.

INDEX OF SHEETS

General Plan and Elevation

General Data

Substructure Layout

Top of Deck Elevations (Sheet 1 of 3)

Top of Deck Elevations (Sheet 2 of 3)

Top of Deck Elevations (Sheet 3 of 3)

Top of South Approach Slab Elevations Top of North Approach Slab Elevations

Superstructure

Superstructure Details (Sheet 1 of 2)

Superstructure Details (Sheet 2 of 2)

Bridge Fence Railing (Special) Details (Sheet 1 of 3) Bridge Fence Railing (Special) Details (Sheet 2 of 3)

Bridge Fence Railing (Special) Details (Sheet 3 of 3)

South Approach Slab

North Approach Slab

Approach Slab Details

Preformed Joint Strip Seal

Modular Swivel Expansion Joint

Structural Steel Framing Plan

Structural Steel Details (Sheet 1 of 2) 22. Structural Steel Details (Sheet 2 of 2)

Bearing Orientation Layout

24. HLMR Expansion Pot Bearing Details - South Abutment

25. HLMR Fixed Pot Bearing Details - South Abutment

HLMR Expansion Pot Bearing Details - North Abutment

27. South Abutment

28. South Abutment Details

29. North Abutment

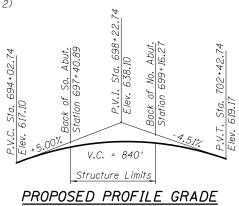
30. North Abutment Details

Bar Splicer Assembly Details

32. Metal Shell Pile Details

33. Borings (Sheet 1 of 2)

34. Borings (Sheet 2 of 2)



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Structures	Cu. Yd.	52.3	232.3	284.6
Concrete Superstructure	Cu. Yd.	316.0	-	316.0
Concrete Superstructure (Approach Slab)	Cu. Yd.	138.0		138.0
Bridge Deck Grooving	Sq. Yd.	1089	-	1089
Protective Coat	Sq. Yd.	1344	-	1344
Furnishing and Erecting Structural Steel Bridge No. 1	L. Sum	1	-	1
Stud Shear Connectors	Each	<i>3528</i>	-	3528
Reinforcement Bars, Epoxy Coated	Pound	124810	25490	150300
Bar Splicers	Each	180	-	180
Furnishing Metal Shell Piles 12" x 0.250"	Foot	-	1335	1335
Driving Piles	Foot	-	1335	1335
Test Pile Metal Shells	Each	-	2	2
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	90	-	90
Anchor Bolts, 1 ¹ ₂ "	Each	48	-	48
Concrete Sealer	Sq. Ft.	-	2933	2933
High Load Multi-Rotational Bearings, Pot, Guided Expansion-300k	Each	9	-	9
High Load Multi-Rotational Bearings, Pot, Fixed-300k	Each	1	-	1
High Load Multi-Rotational Bearings, Pot, Non-Guided Expansion-300k	Each	2	-	2
Modular Expansion Joint - Swivel 9"	Foot	86	-	86
Bridge Fence Railing (Special)	Foot	320	-	320

UP GENERAL NOTES

The proposed grade separation project shall not increase the quantity and/or characteristics of the flow in the Railroad's ditches and/or drainage structures.

The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Railroad prior to construction.

The contractor must submit a proposed method of erosion and sediment control and have the method approved by the Railroad.

shall be designed and constructed per current Railroad Guidelines for Temporary Shoring. All demolitions within the Railroad's right-of-way and/or demolition that may impact the Railroad's

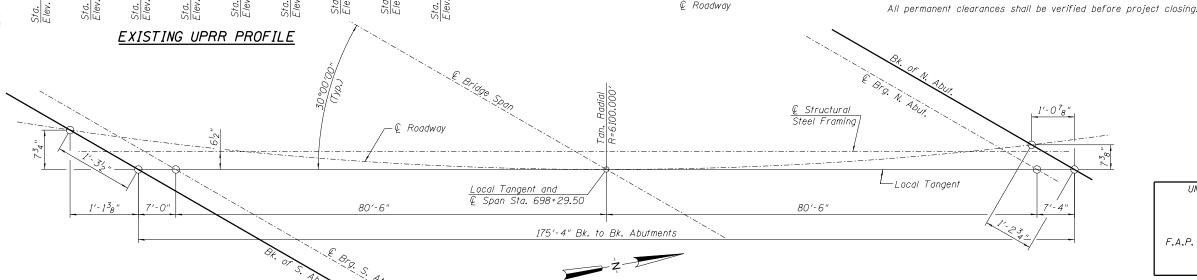
All shoring systems that impact the Railroad's operations and/or supports the Railroad's embankment

tracks or operations shall be in compliance with the Railroad's Demolition Guidelines. Erection over the Railroad's right-of-way shall be designed to cause no interruption to the Railroad's

operation, enabling the track(s) to remain open to traffic per the Railroad's requirements. Railroad requirements do not allow work within 50 feet of track centerline when a train passes the work site and all personnel must clear the area within 25 feet of the track centerline and secure all

False-work clearances shall comply with minimum construction clearances.

eauipment.



UNION PACIFIC RAILROAD BUILT 20__ BY SANGAMON COUNTY SEC. 07-00164-04-FP F.A.P. 1638 - STATION 698+29.67 STR. NO. 084-9949 LOADING HL93

> NAME PLATE See Std. 515001

\96jobs\96S2002F\CADD\Struct\Sheet\002_General Data.dqr

USER NAME = johns00944 DESIGNED REVISED JGT CHECKED MNM REVISED PLOT SCALE = 0.166667 '/ 10. DRAWN DAP REVISED PLOT DATE = 4/28/2023 CHECKED REVISED JGT/MNM

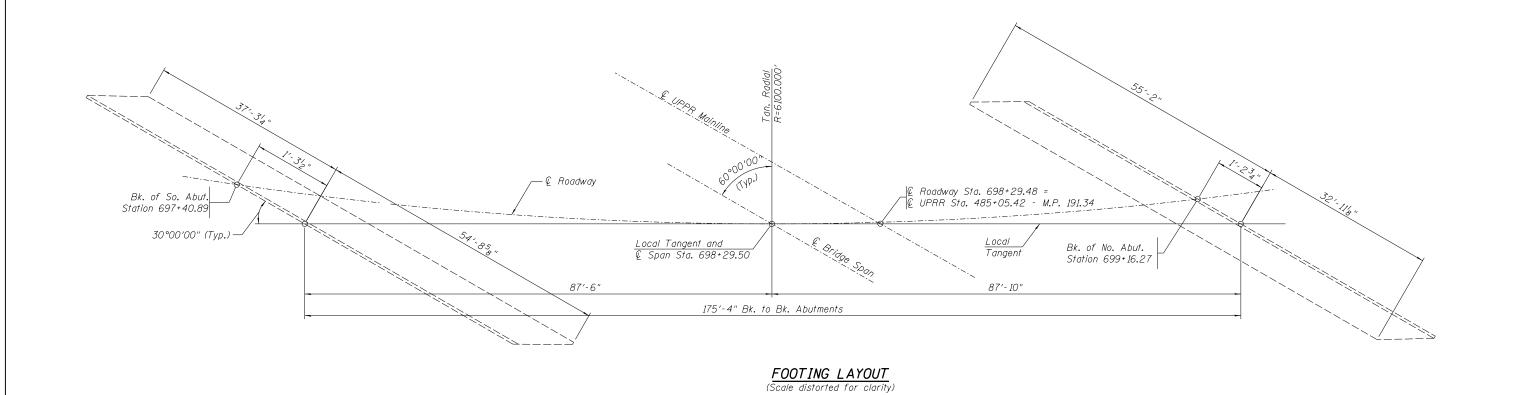
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OFFSET SKETCH

(Scale distorted for clarity

GENERAL DATA STRUCTURE NUMBER 084-9949 SHEET NO. 2 OF 34 SHEETS

SECTION COUNTY SANGAMON 368 147 CONTRACT NO. 93671



 DESIGNED
 JGT
 II/12/15

 DRAWN
 DAP
 II/20/15

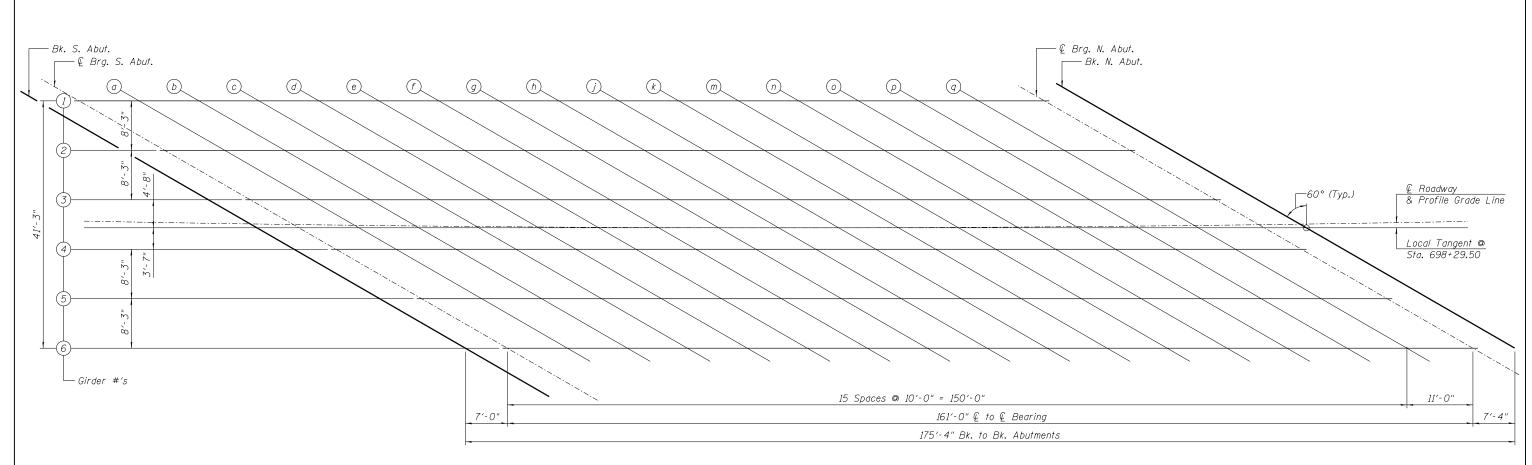
 REVIEWED
 MNM
 II/20/15

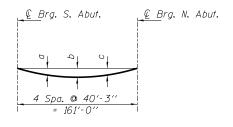
I:\96jobs\96S2002F\CADD\Struct\Sheet\003_Substructure Layout.dgn

Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNED	JGT	REVISED -
HANSON		CHECKED	MNM	REVISED -
HANSON	PLOT SCALE = 0.166667 '/ in.	DRAWN	DAP	REVISED -
PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORT	ATION

SUBSTRUCTURE LAYOUT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NUMBER 084-9949		•	SANGAMON	368	148
STRUCTURE NORMER 001-3313			CONTRACT	NO. 1	93671
SHEET NO. 3 OF 34 SHEETS		ILLINOIS FED. AI	D PROJECT 6		
	• 07-	00164-04-FP, 07-00090-08	-FP		





DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

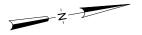
DEAD LOAD DEFLECTION TABLE

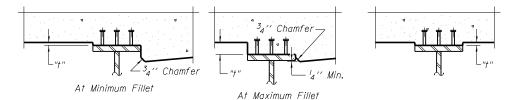
Girder		Deflection	
Girder	а	Ь	С
1	4 ⁹ 16 "	6 ³ 8"	4 ⁵ 8"
2	4 ⁵ 16"	5 ⁷ 8"	41/4"
3	41 ₈ "	5" _{16"}	41/8"
4	41/8"	5 1/16"	41/8"
5	4 ³ 16 "	5 ¹³ 16 "	41/4"
6	4 ⁹ 16 "	6' ₄ "	4 ⁹ 16 "

Note:

The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 05 & 06 of 34.

<u>DIAGRAMMATIC PLAN</u>





EXTERIOR BEAMS

INTERIOR BEAMS

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on this sheet. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 05 & 06 of 34, minus 8" slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

I:\96jobs\96S2002F\CADD\Struct\Sheet\004_Top of Deck Elevations (Sheet 1 of 3).dgn

≖	Copyright Hanson Professional Services Inc. 2022
REVIEWED	HANSON

2	USER NAME = Johns00944	DESIGNED	JGT	REVISED -
		CHECKED	MNM	REVISED -
l	PLOT SCALE = 0.166667 '/ in.	DRAWN	DAP	REVISED -
001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -

TOP	0F	DECK	ELI	EVA	TIO	NS	(SHEET	1 OF	3)
	ST	RUCTU	RE	NUI	MB	ER	084-99	949	
		CHEE	F NO		٥.	71	CHEETC		

F.A.P. RTE.	A.P. SECTION			COUNTY	TOTAL SHEETS	SHEE NO.
•			SANGAMON	368	149	
			CONTRACT	NO. 1	93671	
		ILLINOIS	FED. A	D PROJECT 6		

• 07-00164-04-FP, 07-00090-08-FP

<u>GIRDER 1</u>

Theoretical Grade Theoretica Elevations Adjustea For Dead Load Deflection Location Station Offset Grade ${\it Elevations}$ Bk. S. Abut. 697+04.92 626.70 626.70 697+11.94 697+21.98 697+32.01 697+42.04 697+52.07 697+62.11 697+72.14 697+92.17 698+02.24 698+12.28 698+22.31 698+32.35 698+42.38 698+52.42 698+62.45 Brg. S. Abut. - 20.04 - 20.22 - 20.39 - 20.54 - 20.80 - 20.90 - 20.98 - 21.11 - 21.14 - 21.16 - 21.17 - 21.12 - 21.08 626.81 626.95 627.08 627.31 627.40 627.56 627.63 627.63 627.77 627.77 627.77 627.78 627.78 626.81 627.06 627.29 627.50 627.85 627.85 628.08 628.16 628.20 628.21 628.16 628.00 627.89 € Brg. N. Brg 698+73.49 -21.01 627.74 627.74 Bk. N. Abut. 698+80.85 - 20.95 627.71 627.71

<u>GIRDER 2</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut. © Brg. S. Abut. a b c d e f g h j k m n 0 p q	697+19.41 697+26.42 697+36.44 697+46.46 697+56.48 697+66.50 697+76.52 697+86.54 697+96.56 698+06.58 698+16.60 698+26.62 698+36.64 698+46.66 698+56.69 698+66.71 698+76.73	- 11.93 - 12.05 - 12.21 - 12.35 - 12.48 - 12.59 - 12.87 - 12.83 - 12.87 - 12.90 - 12.91 - 12.92 - 12.92 - 12.86 - 12.80 - 12.73	627.08 627.17 627.30 627.41 627.52 627.69 627.76 627.82 627.87 627.90 627.93 627.94 627.95 627.94 627.94	627.08 627.17 627.40 627.61 627.80 627.96 628.10 628.21 628.35 628.38 628.38 628.38 628.38 628.38 628.38
© Brg. N. Brg Bk. N. Abut.	698+87.75 698+95.10	- 12.64 - 12.56	627.85 627.81	627.85 627.81

<u>GIRDER 3</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut. © Brg. S. Abut. o b c d e f g h j k m n o p q © Brg. N. Brg	697+33.85 697+40.86 697+50.87 697+70.87 697+80.88 697+90.89 698+00.90 698+10.90 698+20.91 698+30.92 698+50.93 698+50.93 698+60.94 698+70.95 698+80.96 698+90.96	-3.92 -4.02 -4.16 -4.28 -4.39 -4.47 -4.60 -4.64 -4.66 -4.63 -4.63 -4.53 -4.53 -4.36	627.39 627.48 627.59 627.68 627.77 627.85 627.91 627.97 628.01 628.04 628.07 628.07 628.07 628.06 628.07 628.09 627.96	627.39 627.48 627.68 627.88 628.05 628.19 628.41 628.48 628.52 628.53 628.52 628.47 628.41 628.42 628.40 628.32
Bk. N. Abut.	699+09.31	- 4.14	627.84	627.84

Offsets measured from @ Roadway.

 DESIGNED
 JGT
 11/12/15

 DRAWN
 DAP
 11/20/15

 REVIEWED
 MNM
 11/20/15

96jobs\96S2002F\CADD\Struct\Sheet\005_Top of Deck Elevations (Sheet 2 of 3).dan

1.1 Jojobs 1 Joseph 1 Chob 1 of act 1 Sheet 1885 1 Op of Beck Elevations 1 Sheet 2 of Shagif						
Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNED	JGT	REVISED -	_	
(ALLANGON		CHECKED	MNM	REVISED -	ı	
CF HANSON	PLOT SCALE = 0.166667 ' / in.	DRAWN	DAP	REVISED -	ı	
PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -	1	

@ ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut. © Brg. S. Abut. b c d e f g h j k m n o p q	697+40.88 697+48.06 697+58.28 697+68.47 697+78.63 697+88.76 698+08.94 698+29.00 698+38.99 698+28.99 698+48.95 698+58.88 698+68.78 698+78.66 698+88.51 698+88.33	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	627.54 627.62 627.72 627.82 627.90 627.97 628.03 628.01 628.11 628.14 628.14 628.14 628.11 628.08 627.98	627.54 627.62 628.01 628.17 628.31 628.42 628.51 628.57 628.60 628.61 628.53 628.46 628.36 628.36 628.36
© Brg. N. Brg Bk. N. Abut.	699+09.13 699+16.27	0.00 0.00	627.91 627.85	627.91 627.85

<u>GIRDER 4</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut. © Brg. S. Abut. a b c d e f g h j k m n o p	697+48.26 697+55.25 697+75.24 697+85.23 698+05.22 698+15.21 698+25.21 698+35.20 698+55.19 698+65.19 698+85.17 698+95.17 698+95.17	4.12 4.04 3.82 3.82 3.63 3.63 3.69 3.69 3.69 3.84 4.05	627.56 627.63 627.73 627.82 627.89 627.95 628.00 628.07 628.09 628.09 628.09 628.07 628.09 628.09 628.09 628.04 627.99 627.94	627.56 627.63 627.83 628.00 628.16 628.49 628.48 628.53 628.55 628.55 628.55 628.52 628.47 628.38 628.27 628.14 627.98
© Brg. N. Brg	699+16.15	4.20	627.79	627.79
Bk. N. Abut.	699+23.48	4.31	627.73	627.73

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut. © Brg. S. Abut. a b c d e f f k m n o p q © Brg. N. Brg Bk. N. Abut.	697+62.63 697+69.61 697+79.59 697+89.57 698+09.53 698+19.52 698+29.50 698+39.48 698+49.46 698+59.44 698+69.42 698+79.40 698+89.38 698+99.36 699+19.32 699+30.29 699+37.61	12.20 12.13 12.04 11.96 11.91 11.87 11.84 11.83 11.84 11.91 11.96 12.04 12.13 12.23 12.36 12.50 12.67	627.58 627.64 627.73 627.79 627.85 627.90 627.97 627.97 627.97 627.97 627.97 627.90 627.85 627.79 627.79 627.79 627.79 627.79	Deflection 627.58 627.64 627.82 627.99 628.13 628.25 628.34 628.44 628.45 628.43 628.43 628.31 628.21 628.08 627.75 627.75

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut. © Brg. S. Abut. a b c d e f g h j k m n o p q	697+76.96 697+83.94 697+93.90 698+03.87 698+13.84 698+23.80 698+33.77 698+53.71 698+63.67 698+73.64 698+93.57 699+03.54 699+13.50 699+23.47 699+33.43	20.31 20.25 20.19 20.19 20.09 20.09 20.13 20.13 20.18 20.32 20.53 20.68 20.97	627.54 627.59 627.66 627.71 627.78 627.78 627.80 627.80 627.78 627.71 627.66 627.60 627.52 627.44 627.34	627.54 627.59 627.76 627.92 628.05 628.16 628.24 628.31 628.30 628.30 628.10 627.98 627.98
Bk. N. Abut.	699+51.70	21.31	627.13	627.13

Note: Offsets measured from © Roadway.

I:\96jobs\96S2002F\CADD\Struct\Sheet\006_Top of Deck Elevations (Sheet 3 of 3).dgn

	Copyright Hanson Professional Services Inc. 2022
1	A
	CST HANSON
	DDOCEDEIONAL DECICA CIDA LICENCE 4104 OF

CIE	Apportop of beck Elevations (Sheet 5 of Shagif							
	USER NAME = Johns00944	DESIGNED	JGT	REVISED -				
		CHECKED	MNM	REVISED -				
	PLOT SCALE = 0.166667 '/ in.	DRAWN	DAP	REVISED -				
1084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -				

<u>WEST GUTTER LINE</u>

Location	Station	Offset	Theoretical Grade Elevations
Free End of South Appr. A B	696+70.74 696+81.24 696+91.70	-22.00 -22.00 -22.00	626.06 626.26 626.44
Abut. End of South Appr.	697+02.14	-22.00	626.62

WEST CROWN BREAKPOINT

Location	Station	Offset	Theoretical Grade Elevations
Free End of South Appr. A B	696+89.14 696+99.56 697+09.95	- 12.00 - 12.00 - 12.00	626.60 626.78 626.94
Abut. End of South Appr.	697+20.31	- 12.00	627.09

@ ROADWAY & CROWN LINE

Location	Station	Offset	Theoretical Grade Elevations
Free End of South Appr. A B	697+11.00 697+21.34 697+31.64	0.00 0.00 0.00	627.14 627.29 627.42
Abut. End of South Appr.	697+41.91	0.00	627.55

EAST CROWN BREAKPOINT

Location	Station	Offset	Theoretical Grade Elevations
Free End of South Appr. A B Abut. End of South Appr.	697+32.64	12.00	627.26
	697+42.89	12.00	627.38
	697+53.11	12.00	627.49
	697+63.29	12.00	627.59

EAST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
Free End of South Appr. A B Abut. End of South Appr.	697+50.50	22.00	627.26
	697+60.68	22.00	627.37
	697+70.83	22.00	627.46
	697+80.95	22.00	627.54

*Dimensions are measured radial to € Roadway.

	West Gutter Line	
	West Crown Breakpoint West Crown Breakpoint	
	Slopp Slop	
Free End S. Appr. Slab	West Crown Breakpoint *	
	Lane	
	(Typ.) 1 0 00 00 00 00 00 00 00 00 00 00 00 00	
	© Roadway & End of S. Appr. Slab	
	Crown Line Sta. 697+11.00	
	Local Tangent Sta. 697+40.89 Sta. 698+29.50 Sta.	
	5ta. 698+29.50	ad of C. Anna Clab
	Back of S. Abut. Sta. 698+29.50 Sta. 697+40.89 Abut. E. Sta. 698+29.50 Abut. E.	nd of S. Appr. Slab
	East Crown Breakpoint	
	* Fast Gutter Line	
	0-08	
	* East Gutter Line	
		_
		A
		<u>PLAN</u>

REVISED -

REVISED -

REVISED -REVISED -

I:\96jobs\96S2002F\CADD\Struct\Sheet\007_Top of South Approach Slab Elevations.dgn

Σ	© Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNED	JGT
Ü	A LIANGON		CHECKED	MNM
	CST HANSON	PLOT SCALE = 0:2.0000000 ':' / in.	DRAWN	DAP
뷥	PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** TOP OF SOUTH APPROACH SLAB ELEVATIONS STRUCTURE NUMBER 084-9949 SHEET NO. 7 OF 34 SHEETS

COUNTY TOTAL SHEET NO.

SANGAMON 368 152

CONTRACT NO. 93671

ILLINOIS FED. AID PROJECT 6

O7-00164-04-FP, 07-00090-08-FP

<u>WEST GUTTER LINE</u>

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of North Appr. A B	698+78.08 698+87.96 698+97.82	-22.00 -22.00 -22.00	627.70 627.66 627.60
Free End of North Appr.	699+07.65	-22.00	627.54

WEST CROWN BREAKPOINT

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of North Appr. A B	698+95.07 699+04.90 699+14.70	- 12.00 - 12.00 - 12.00	627.82 627.76 627.69
Free End of North Appr.	699+24.47	- 12.00	627.60

& ROADWAY & CROWN LINE

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of North Appr.	699+15 . 30	0.00	627.86
A B	699+25.05 699+34.77	0.00 0.00	627.78 627.68
Free End of North Appr.	699+44.47	0.00	627.58

EAST CROWN BREAKPOINT

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of North Appr. A B	699+35.33 699+45.01 699+54.66	12.00 12.00 12.00	627.50 627.39 627.28
Free End of North Appr.	699+64.28	12.00	627.15

EAST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of North Appr.	699+51.88	22.00	627.11
A	699+61.50	22.00	626.99
B	699+71.09	22.00	626.86
Free End of North Appr.	699+80.66	22.00	626.72

*Dimensions are measured radial to € Roadway.

West Gutter Line
West Crown Breakpoint West Crown Breakpoint
Abut. End of N. Appr. Slab Back of N. Abut. Sta. 699+16.27
East Crown Breakpoint
East Gutter Line A B
<u>PLAN</u>

	I:\96jobs\96S2002F\CADD\Struct\Sheet\008_Top of North Approach Slab Elevations.dgn						
	Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNED	JGT	REVISED -		
1	A LLANGON		CHECKED	MNM	REVISED -		
	CST HANSON	PLOT SCALE = 0.166667 ' / in.	DRAWN	DAP	REVISED -		
	DROSSERIONAL DERICK FIRM LICENES #184 001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS STRUCTURE NUMBER 084-9949 SHEET NO. 8 OF 34 SHEETS

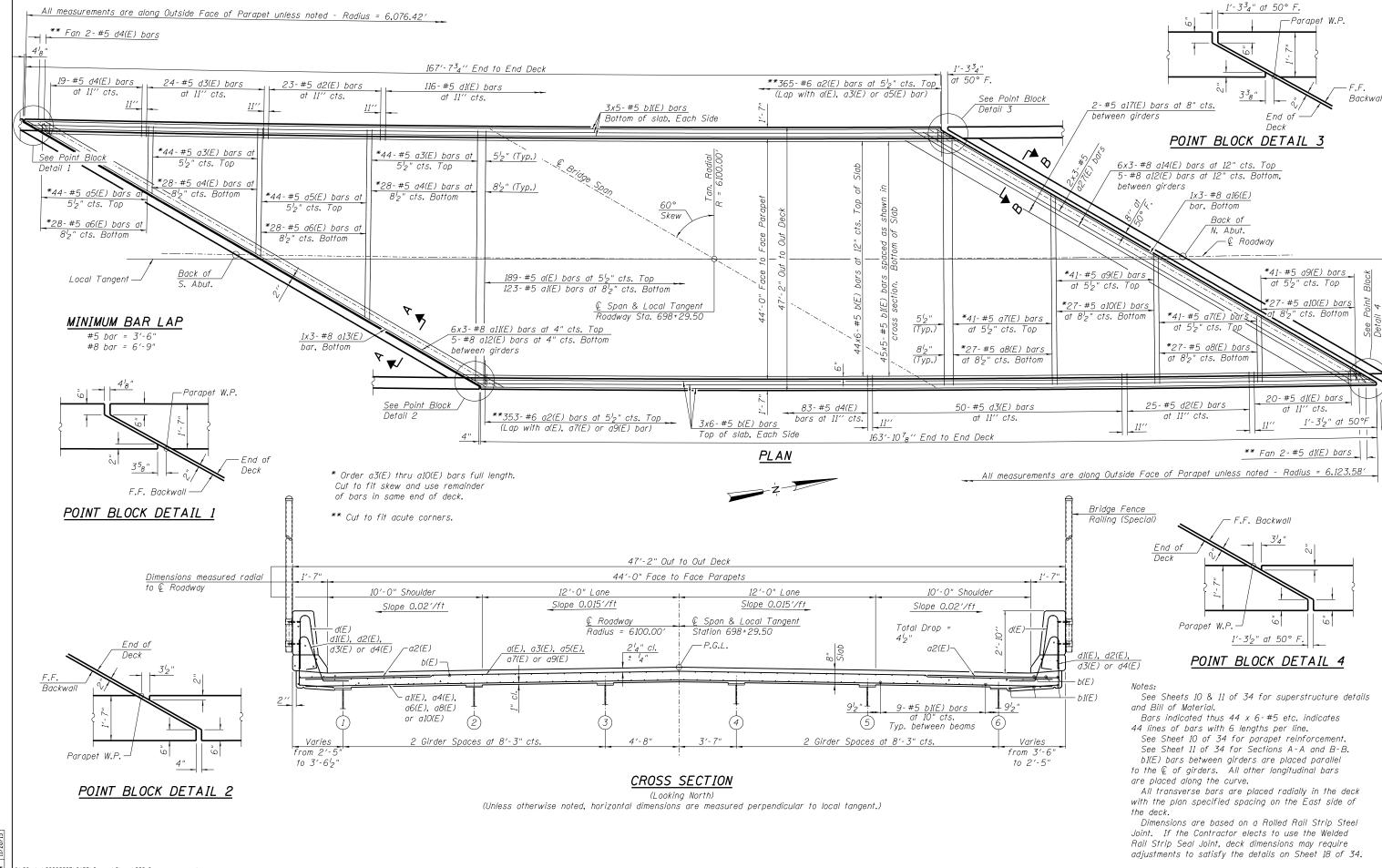
COUNTY TOTAL SHEET NO.

SANGAMON 368 153

CONTRACT NO. 93671

ILLINOIS FED. AID PROJECT 6

O7-00164-04-FP, 07-00090-08-FP



DAP

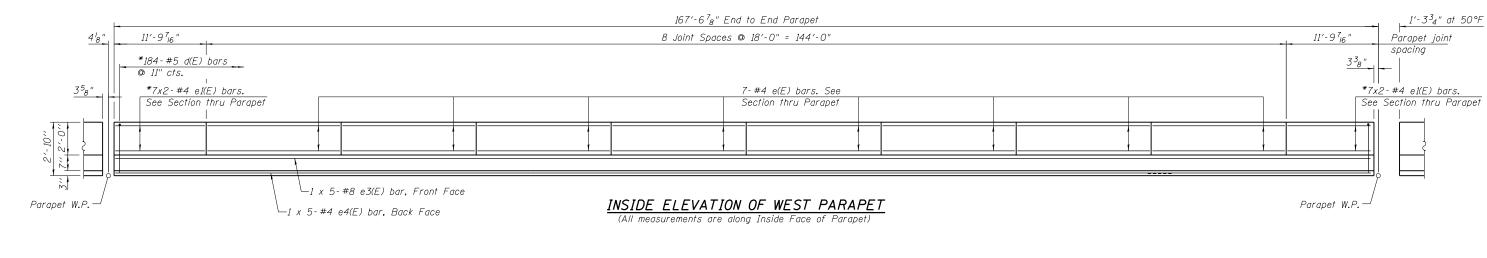
 (c) 96 jobs \ 96 S2002F \ CADD\ Struct\ Sheet\ 009 - Superstructure.dgn

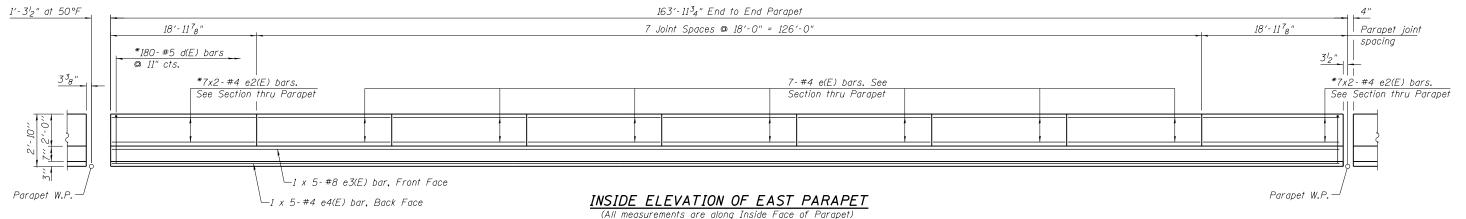
 (c) Copyright Hanson Professional Services Inc. 2022
 USER NAME = Johns 00944
 DESIGNED REVISED JGT CHECKED MNM REVISED DRAWN DAF REVISED CHECKED PLOT DATE = 10/26/2022 REVISED JGT/MNM

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

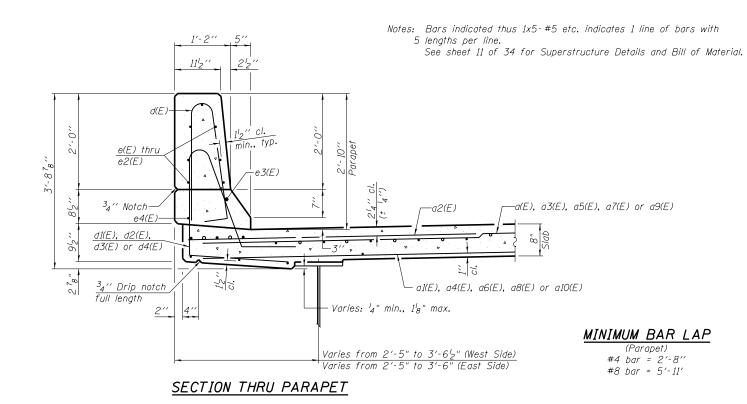
SUPERSTRUCTURE STRUCTURE NUMBER 084-9949 SHEET NO. 9 OF 34 SHEETS

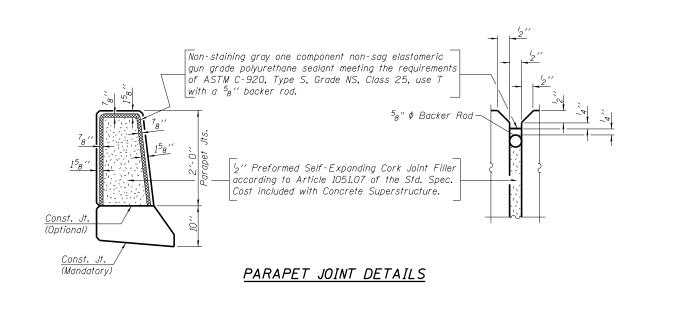
SECTION COUNTY SANGAMON 368 154 CONTRACT NO. 93671





* Field bend or cut as required.

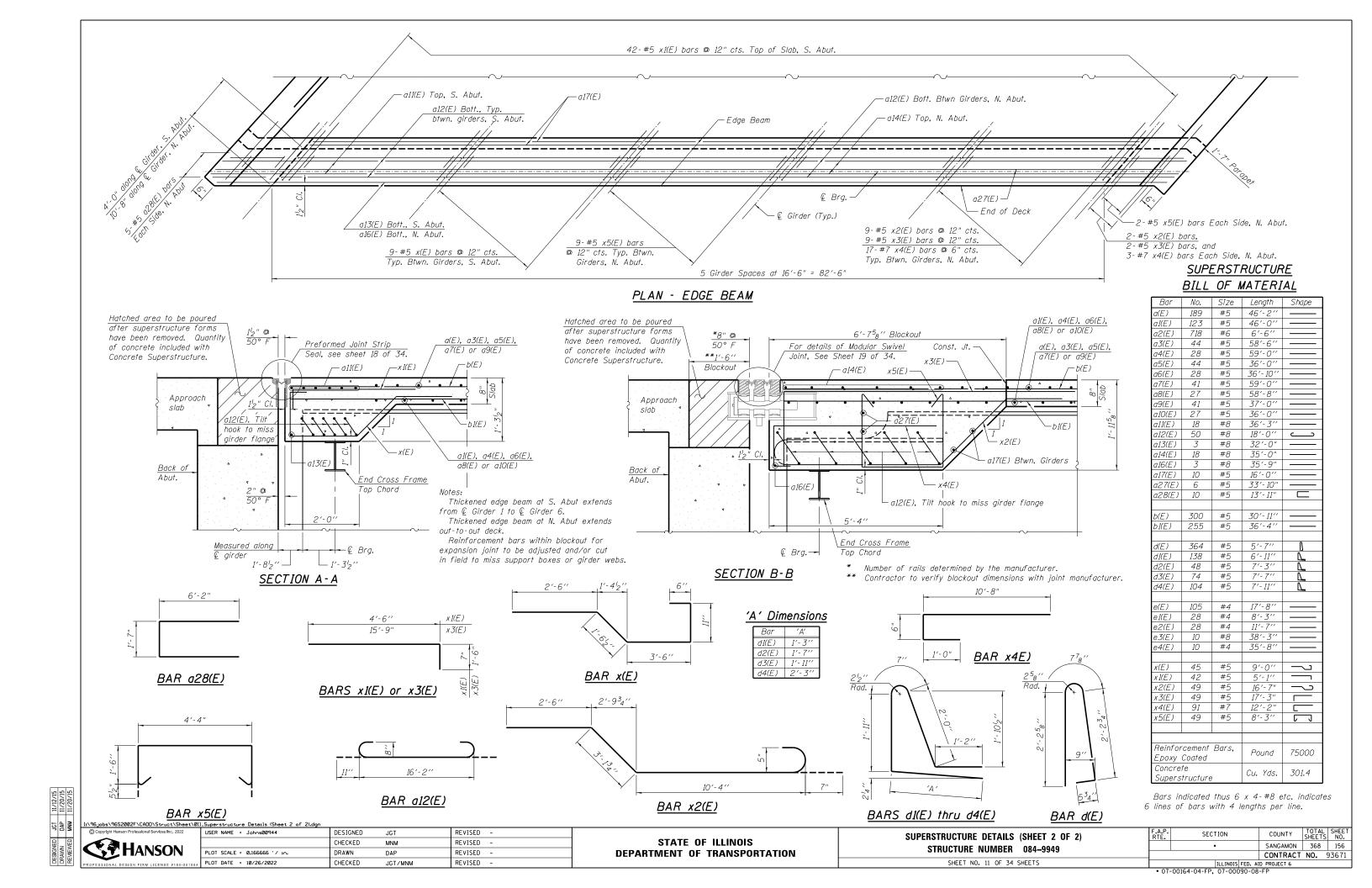


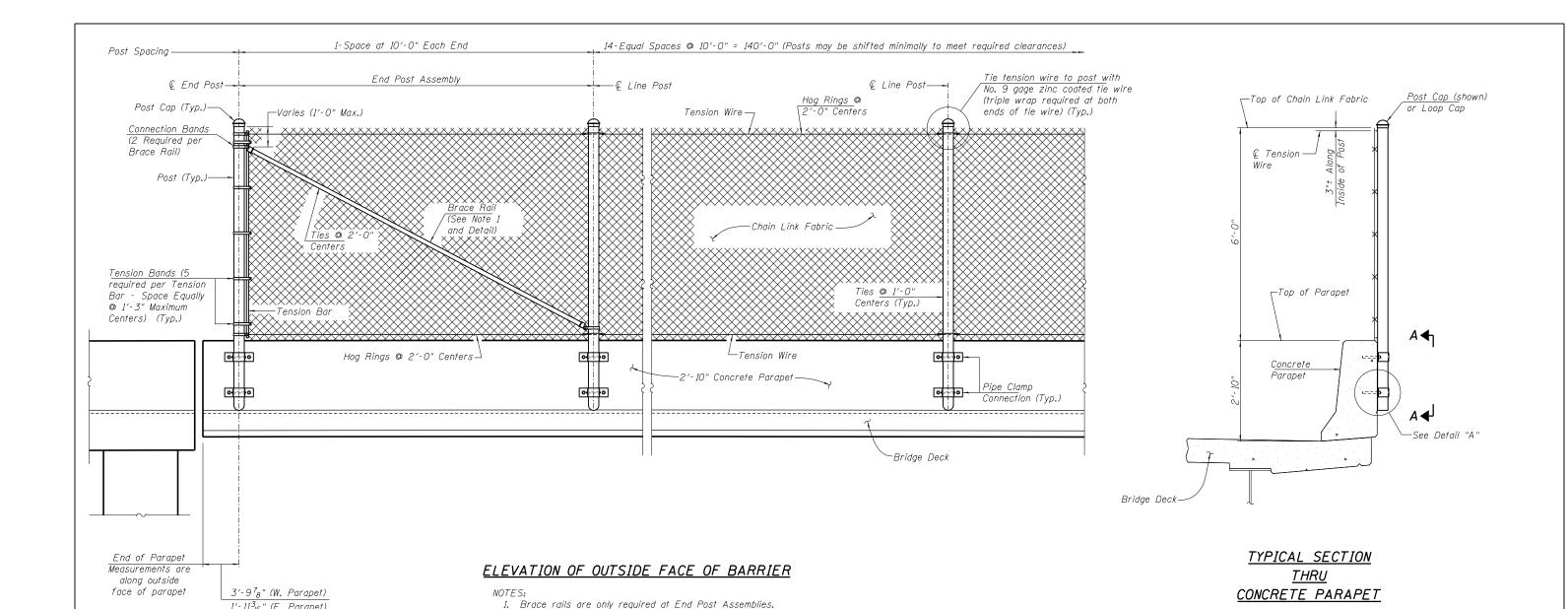


II TO JOOS TO SEED TO THE TO THE TO THE THE STREET OF THE STREET OF TO THE STREET OF T					
Copyright Hanson Professional Services Inc. 2022	REVISED -				
A LLANGON		CHECKED	MNM	REVISED -	
CF HANSON	PLOT SCALE = 0.166666 '/ in.	DRAWN	DAP	REVISED -	
PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY TOTAL SHEET NO. SUPERSTRUCTURE DETAILS (SHEET 1 OF 2) SECTION SANGAMON 368 155 STRUCTURE NUMBER 084-9949 CONTRACT NO. 93671 | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP, 07-00090-08-FP SHEET NO. 10 OF 34 SHEETS





FENCING NOTES

Install posts plumb (within a tolerance of $\pm 1/2$ "). Use shim plates as required to achieve plumb. The required quantity and thickness of shim plates will be determined in the field. Install chain link fence in accordance with ASTM F 567, Section 509 of the Standard Specifications and Special Provision as applicable.

CONCRETE PARAPET DETAILS:

See Sheet 10 of 34 for Concrete Parapet Details.

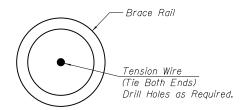
1'-11³₁₆" (E. Parapet)

PAYMENT:

Payment shall be for the contract unit price per foot for "Bridge Fence Railing (Special)". Payment includes posts, brace rails and bands, rail ends, combination rail ends, boulevard clamps, chain link fabric, tension wire, ties, hog rings, tension bars and bands, post and loop caps, pipe clamps, anchor rods, bolts, nuts, washers, neoprene pads, miscellaneous fence fittings and hardware and all incidental materials and labor and equipment required to complete installation of the fence.

The chain link fabric, posts, fence framework, tension wire, ties and fittings, shall have a black polyvinyl chloride (PVC) coating. All non-aluminum material shall be galvanized prior to vinyl coating. See Section 1006.27 of the Standard Specifications. Hot-dip galvanize fence framework after fabrication.

Fabric shall not be spliced by pickets. Fabric spices if required only occur at posts at a minimum of 100° between splices.



BRACE RAIL DETAIL

For Table of Fence Components, Table of Post Attachment Components, View A-A and Detail "A" see Sheet 13 of 34.

t\96jobs\9652002F\CADD\Struct\Sheet\012.Bridge Fence Railing Special (Sheet 1 of 3).dgr
© Copyright Hanson Professional Services Inc. 2022 USER NAME = Johns00944 [

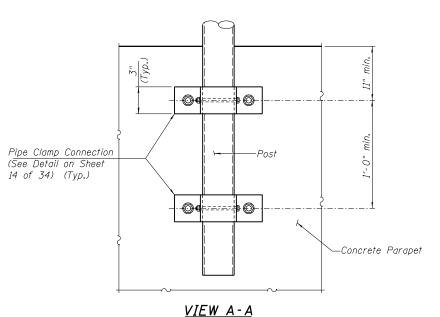


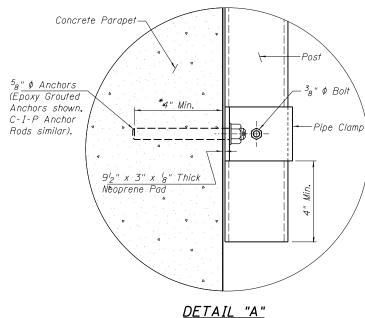
DESIGNED REVISED -JGT CHECKED MNM REVISED -ORAWN DAP REVISED PLOT DATE = 10/26/2022 CHECKED REVISED .IGT / MNM

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** BRIDGE FENCE RAILING (SPECIAL) - DETAILS (Sheet 1 of 3) STRUCTURE NUMBER 084-9949 SHEET NO. 12 OF 34 SHEETS

SECTION COUNTY SANGAMON 368 157 CONTRACT NO. 93671 ILLINOIS FED. AID PROJECT 6
• 07-00164-04-FP, 07-00090-08-FP

	TABLE OF	CHAIN LINK FENCE COMPONENTS
COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION
Posts	F 1083	Galvanized Steel Pipe - 3" NPS, Schedule 40 (3.500" Outside Diameter, 0.216" Wall Thickness)
Chain Link Fabric	A 392	Zinc Coated Steel - No. 9 gage (coated wire diameter), Class 2 Coating
top and knuckled bottom selvage)	A 491	Aluminum Coated Steel - No. 9 gage (coated wire diameter)
	F 668	Polyvinyl Chloride (PVC) Coated Steel - No. 9 gage Zinc Coated Wire (metallic-coated core wire diameter)
Tie Wires	F 626	Zinc Coated Steel Wire - No. 9 gage
Brace Bands	F 626	No. 12 Gage (Min. thickness) $x {}^3_4$ " (Min. width) Steel Bands (Beveled or Heavy)
Tension Bars	F 626	$^{3}_{16}$ " (Min. thickness) x $^{3}_{4}$ " (Min. width) x 5'-10" (Min. height) Steel Bars
Tension Bands	F 626	No. 14 Gage (Min. thickness) x^{-3} 4" (Min. width) Steel Bands
Miscellaneous Fence Components	F 626	Zinc Coated Steel - (includes post or loop caps, horizontal and brace rail ends, combination rail ends, boulevard clamps and all other miscellaneous fittings & hardware)
		Type II (Zinc Coated Steel Wire) - No. 7 gage, Class 4 Coating
Tension Wire	A 824 & A 817	Type I (Aluminum Coated Steel Wire) - No. 7 gage
Hog Rings	F 626	Zinc Coated Steel Wire - No. 12 gage
Brace Rails	F 1083	Galvanized Steel Pipe - 1 ^l ₄ " NPS, Schedule 40 (1.660" Outside Diameter, 0.140" Wall Thickness)





*The minimum embedment length shall be 6" or embedment length necessary to achieve 125% of the specified yield strength of the anchor rod or bar.

POST ATTACHMENT NOTES

ANCHOR RODS, NUTS and WASHERS:

After the nuts have been tightened, distort the Anchor Rod threads to prevent removal of the nuts. Coat distorted threads and exposed trimmed ends of anchors with a galvanizing compound in accordance with ASTM A780.

COATINGS:

Hot-dip galvanize all Nuts, Washers, Bolts, C-I-P Anchor Rods, Epoxy Grouted Anchors according to Section 1006.09 of the Standard Specifications. Hot-dip galvanize pipe clamps in accordance with ASTM A123. See Fencing Notes on Sheet 12 of 34 for PVC coating details.

EPOXY GROUTING of ANCHOR RODS and BARS:

Chemical Adhesive Resin System for Anchor Rods and Bars shall comply with Special Provisions. Space reinforcement bars in parapet to miss anchors.

WELDING:

All welding will be in accordance with the American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition). Weld metal will be E60XX or ETOXX. Nondestructive testing of welds is not required.

CROSS REFERENCE:

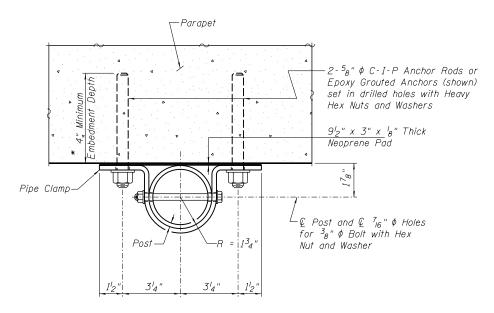
For location of View A-A and Detail "A" see Sheet 12 of 34.

:\96jobs\96S2002F\CADD\Struct\Sheet\



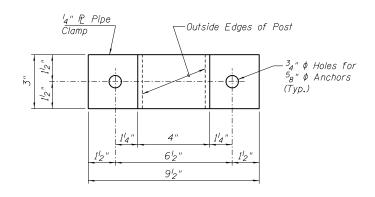
et\01:	tN013_Bridge Fence Hailing Special (Sheet 2 of 3).dgn						
	USER NAME = Johns00944	DESIGNED	JGT	REVISED -			
		CHECKED	MNM	REVISED -			
	PLOT SCALE = 0.166666 '/ in.	DRAWN	DAP	REVISED -			
001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -			

TABLE OF POST ATTACHMENT COMPONENTS ASTM DESIGNATION COMPONENT COMPONENT INFORMATION A 36 or Pipe Clamps ¼" Steel ₽ A 709 Grade 36 Epoxy Grouted F 1554 Grade 36 Fully threaded Headless Anchor Rods - ${}^{5}_{8}$ " ϕ x 6" Anchor Rods C-I-P Anchor Rods F 1554 Grade 36 Hex Head Anchor Rods - $^{5}8$ " ⋄ x 6" $^38"$ ϕ x $4^34"$ Hex Head Bolts for Pipe Clamp Bolts A 307 Connections to Posts Hex Nuts for Pipe Clamp and Base Plate Nuts A 563 Connections Flat Washers for Pipe Clamp and Base Plate F 436 Washers Connections In accordance with Standard Specification Neoprene Pads Section 1052.02(a)



PIPE CLAMP CONNECTION DETAIL

(Connection without spacer shown, Connection with spacer similar)



PIPE CLAMP DETAIL

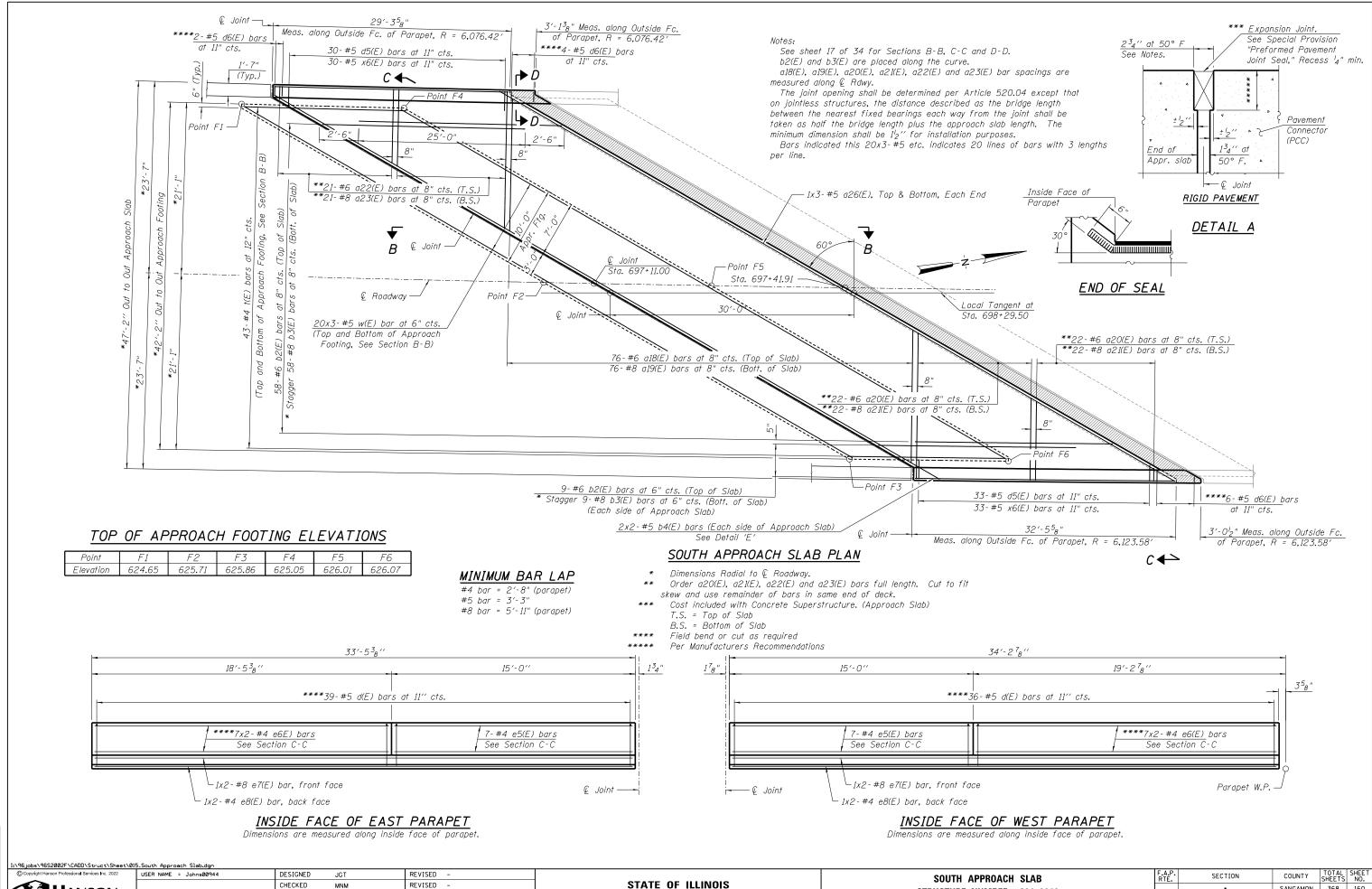
BILL OF MATERIAL

ITEM	UNIT	Quantity
Bridge Fence Railing (Special)	Foot	320

ŀ	واج	DAP		I:\96jobs\96S2002F\CADD\Struct\Sheet\01		I:\96jobs\96S2002F\CADD\Struct\Sheet\014	4_Bridge Fence Railing Special (Sheet 3 of 3).dgn		
ı,	واد	≥		Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNE			
- 1	GNED	, Q		A LLANGON		CHECKED			
1	<u>ה</u>			CSTHANSON	PLOT SCALE = 0.166666 '/ in.	DRAWN			
ľ		를 뿐		PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 10/26/2022	CHECKED			

	USER NAME = Johns00944	DESIGNED	JGT	REVISED -
		CHECKED	MNM	REVISED -
	PLOT SCALE = 0.166666 '/ in.	DRAWN	DAP	REVISED -
1084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -

^{*}The minimum embedment length shall be 4" or embedment length necessary to achieve 125% of the specified yield strength of the anchor rod or bar.



DEPARTMENT OF TRANSPORTATION

SANGAMON 368 160

CONTRACT NO. 93671

| ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP. 07-00090-08-FP

STRUCTURE NUMBER 084-9949

SHEET NO. 15 OF 34 SHEETS

PLOT SCALE = 0:1.999996 ':" / 10.

PLOT DATE = 10/26/2022

DRAWN

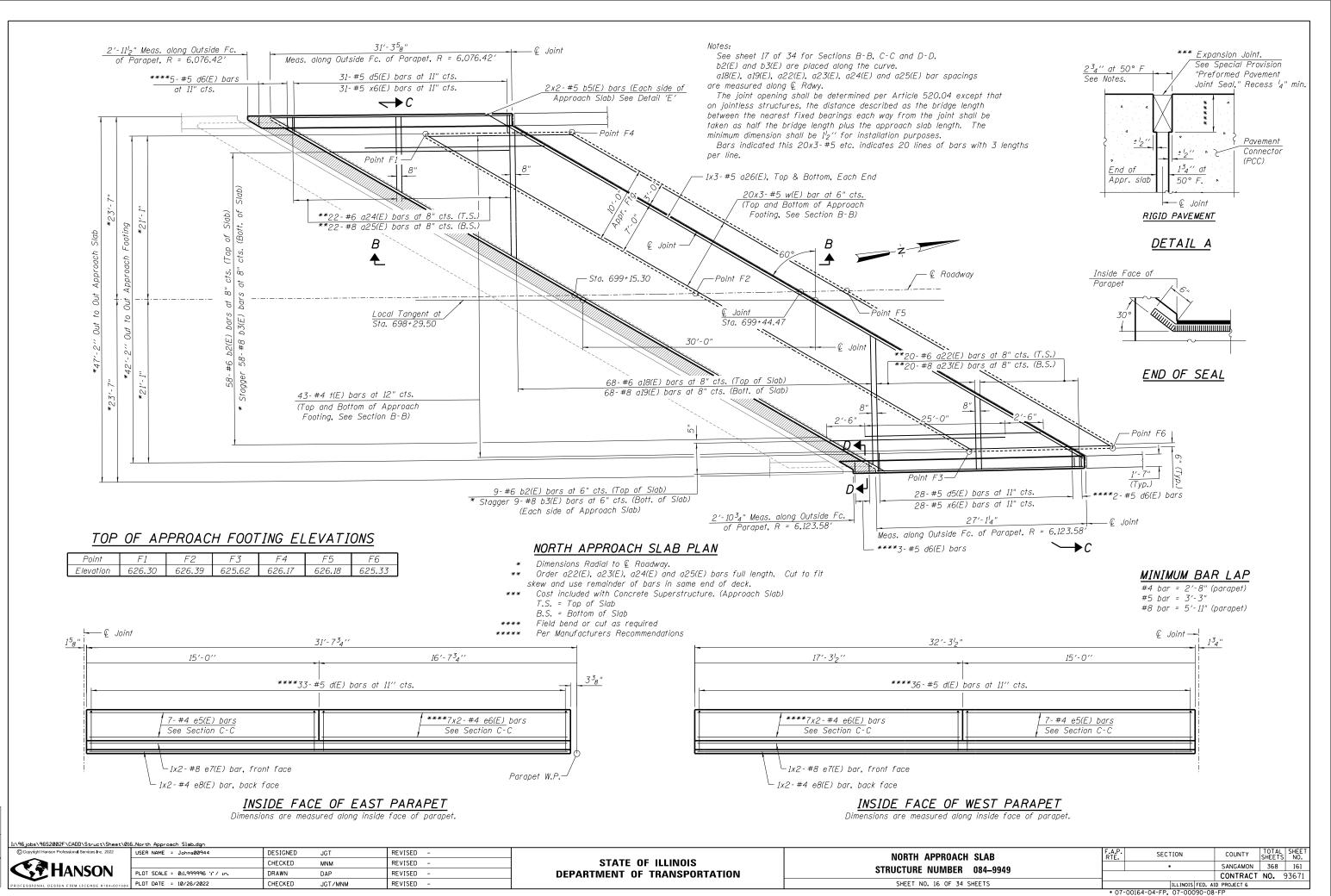
CHECKED

DAP

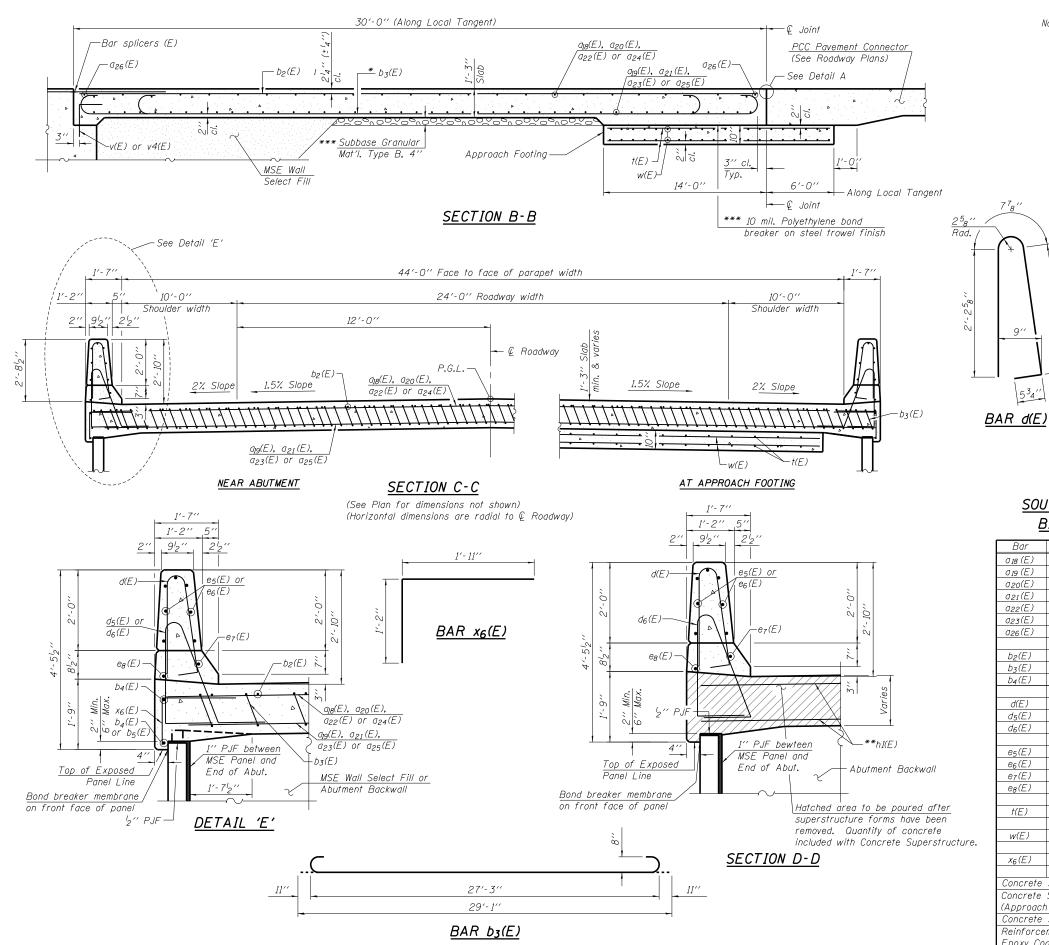
JGT/MNM

REVISED

REVISED



VED JGT 11/12/15 VED MNM 11/20/15



See sheets 15 & 16 of 34 for Detail A.

Parapet concrete shall be paid for as Concrete Superstructure.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.

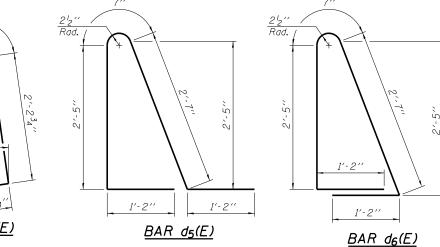
For v(E) bar details, see sheet 27 of 34.

For $v_4(E)$ bar details, see sheet 29 of 34.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. For bar splicer details, see sheet 31 of 34.

Cost of excavation for approach footing included with Concrete Structures.

For additional parapet details, see sheets 15 & 16 of 34.



- * Tilt #8 $b_3(E)$ bars as required to maintain clearance.
- ** See Sheets 27 thru 30 of 34 for h1(E) bars.
- *** Cost included with Concrete Superstructure (Approach Slab).

SOUTH APPROACH SLAB

Ē	BILL O	F MA	TERIAL	:
Bar	No.	Size	Length	Shape
a 18 (E)	76	#6	16'-6''	
a 19 (E)	76	#8	16'-6''	
a20(E)	22	#6	20'-2''	
021(E)	22	#8	20'-2''	
a22(E)	21	#6	19'-0''	
a23(E)	21	#8	19'-0''	
026 (E)	6	#5	34'-4''	
b2(E)	76	#6	29'-8''	
b3(E)	76	#8	29'-1''	ر ا
b4(E)	8	#5	17'-10''	
d(E)	75	#5	5′-7′′	V
d5(E)	63	#5	7′-11′′	Ĺ
d ₆ (E)	12	#5	7'-11''	7
e ₅ (E)	14	#4	14'-8''	
e ₆ (E)	28	#4	11'-5''	
e ₇ (E)	4	#8	20'-7''	
e ₈ (E)	4	#4	18'-11''	
t(E)	86	#4	19'-8''	
w(E)	120	#5	31'-0''	
x ₆ (E)	63	#5	3'-1''	
Concrete	 Superstru	ucture	Cu. Yd.	7.5
Concrete	Superstru		Cu. Yd.	71.3
Approact	Structure		Cu. Yd.	26.9
	ment Bar		Cu. 70.	
Теппоссе Ероху Со		٥,	Pound	25290

NORTH APPROACH SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a 18 (E)	68	#6	16'-6''	
a ₁₉ (E)	68	#8	16'-6''	
a22(E)	20	#6	19'-0''	
a23(E)	20	#8	19'-0''	
024(E)	22	#6	19'-9''	
a25(E)	22	#8	19'-9''	
a26(E)	6	#5	34'-4''	
b2(E)	76	#6	29'-8''	
b3(E)	76	#8	29'-1''	ـــــــ
b5(E)	8	#5	17'-2''	
d(E)	69	#5	5′-7′′	Λ
d5(E)	59	#5	7′-11′′	L (_
d ₆ (E)	10	#5	7'-11''	
e5(E)	14	#4	14'-8''	
e ₆ (E)	28	#4	11'-5''	
e ₇ (E)	4	#8	20'-7''	
e ₈ (E)	4	#4	18'-11''	
t(E)	86	#4	19'-8''	
w(E)	120	#5	31'-0''	
x ₆ (E)	59	#5	3'-1''	
		L	0 1//	- .
	Superstru		Cu. Yd.	7.1
	Superstru	ıcture	Cu. Yd.	66.7
(Approaci				
	Structure		Cu. Yd.	25.4
	ement Bar	S,	Pound	24520
Ероху Со	ated			_ /= /
F.A.P.	SECTIO	N	COUNTY	TOTAL S

JGT DAP MNM

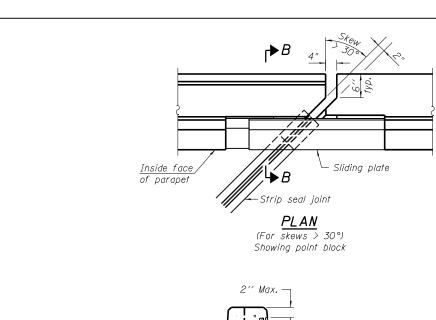
 t\96jobs\96S2002F\CADD\Struct\Sheet\017_Approach
 Slab
 Details.dgn

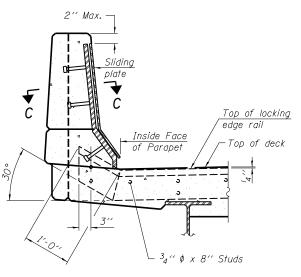
 © Copyright Hanson Professional Services Inc. 2022
 USER
 NAME
 =
 Johns00944
 DESIGNED JGT REVISED -CHECKED MNM REVISED LOT SCALE = 0:1.999996 ':" / in. ORAWN DAP REVISED CHECKED REVISED PLOT DATE = 10/26/2022 JGT/MNN

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

APPROACH SLAB DETAILS STRUCTURE NUMBER 084-9949 SHEET NO. 17 OF 34 SHEETS

SHEETS NO. SANGAMON 368 162 CONTRACT NO. 93671 ILLINOIS FED. AID PROJECT 6
• 07-00164-04-FP, 07-00090-08-FP





³8′′ Embedded plate full depth Concrete flush with back face of $\frac{3}{8}$ " plate 3₈ '' Plate T.D Ø.≠Ø. Approach slab -Concrete flush with back face of $\frac{3}{4}$ " plate ! — Bridge deck TRIMETRIC VIEW (Showing back plates only,

SECTION C-C

³8′′ ¢ Countersunk_, bolts at ±9" cts.

Notes:

1₂'' Sliding plate

6" at 50°F-

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

*³4′′ φ x 6′′ Studs, typ.

3₄'' Embedded plate

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4^{l_2} " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

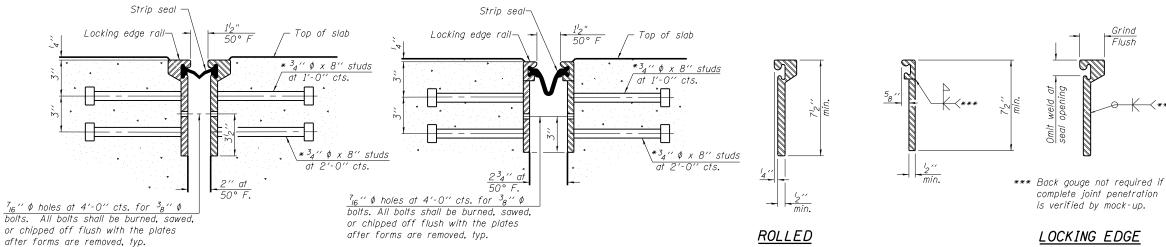
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 316" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab, For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

SECTION B-B



SECTION THRU ROLLED RAIL JOINT

SECTION THRU WELDED RAIL JOINT

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

LOCKING EDGE WELDED RAIL RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
reformed Joint Strip Seal	Foot	90

I:\96jobs\96S2002F\CADD\Struct\Sheet\018_Preformed Joint Strip Seal.dgr

	C Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNED
J.	A LLANGON		CHECKED
<u> </u>	CF HANSON	PLOT SCALE = 0.166667 '/ in.	DRAWN
ž	PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 10/26/2022	CHECKED

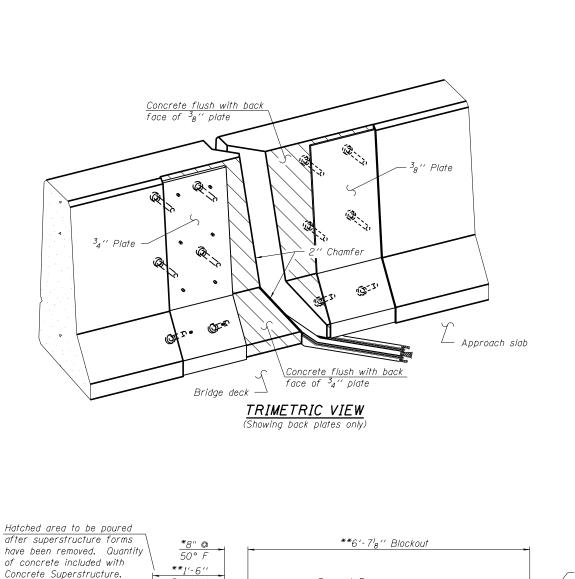
REVISED JGT MNM REVISED DAP REVISED REVISED .IGT/MNM

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

EXTRUDED RAIL

PREFORMED JOINT STRIP SEAL STRUCTURE NUMBER 084-9949 SHEET NO. 18 OF 34 SHEETS

SECTION COUNTY SANGAMON 368 163 CONTRACT NO. 93671 | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP, 07-00090-08-FP



Support Box

End Cross Frame Top Chord

2" Max. plate <u>____</u> Inside Face -Top of deck of Parapet Φ Studs ^Δ-W12x50 end frame SECTION B-B top chord, Typ. (Looking North at Northwest corner of bridge)

> 1′-3³4" at 50°F Ins<u>ide face</u> Sliding plate of parapet Modular Expansion Join PLAN

*** 3 4" ϕ x 6" Studs, typ. 3₄'' Embedded plate full depti ³8′′¹Embedded plate full depth 6" at 50°F 1/2" Sliding plate * Number or rails determined by the manufacturer. ³8′′ ¢ Countersunk ** Blockout dimensions to be verified by Contractor bolts at ±9" cts.

SECTION C-C

*** Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

Notes:

The expansion joint device shall be a prefabricated modular assembly with multiple support bars and separator beams providing a continuous seal across the deck.

Joint openings shall be adjusted according to article 520.04 of the Standard Specifications when the concrete blockout is cast at an ambient temperature other than 50° F.

The cost of furnishing and installing the barrier plate assemblies shall be included in the cost of Modular Expansion Joints.

Countersunk bolts shall be in accordance with ASTM A-307, Grade A.

Countersunk bolts and concrete inserts shall be hot-dipped galvanized according to AASHTO M232.

The modular joints shall be fabricated to conform to the roadway profile and cross slope.

Prior to the placement of the joint blockout, the Contractor shall coordinate with the Modular Joint Manufacturer to ensure that the joint will be properly supported and that the reinforcement bars will not interfere with the joint components. Any necessary adjustments to the reinforcement layout shall be submitted to the Engineer for approval.

Concrete in hatchblock and deck blockout areas to be placed after the modular joint is fixed in position.

The support box shall be rigidly attached to top chord of cross frame by adjustable brackets, studs or shims. Cost for rigid attachments shall be included in the cost of Modular Expansion Joint.

The modular expansion joint system shall be designed to accommodate 4 inches of movement in the longitudinal direction of the bridge and I_2^l inches of movement in the transverse direction of the bridge. Values include AASHTO LRFD load factor of 1.2 for TU loads.

The details shown are intended to be schematic. The actual components of the expansion joint system may vary from those shown. This includes, but is not limited to, the number of cells, the number of support boxes, and support bar box size, however, the total required range of expansion remains unchanged regardless of the manufacturer chosen.

BILL OF MATERIAL

Item	Unit	Total
Modular Expansion Joint-Swivel 9"	Foot	86

Support boxes to be

abutment backwall by

adjustable bracket, stool

rigidly attached to

or shims.

1	1: \ 16 JODS \ 16320021 \ \CHDD \ 3 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	.moduter swiver exp soundagn					
	Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNED	JGT	REVISED -		
	THAN CON		CHECKED	MNM	REVISED -		
	CST HANSON	PLOT SCALE = 0.166667 '/ in.	DRAWN	DAP	REVISED -		
	PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -		

2'-0'2" 1'-3'2"

SECTION A-A

(Dimensions are at right angles to back of abutment unless noted otherwise)

Blockout

Measured along

Approach slab

Back of

Abut.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

Top of Deck

Support boxes to be rigidly attached to

end cross frame top

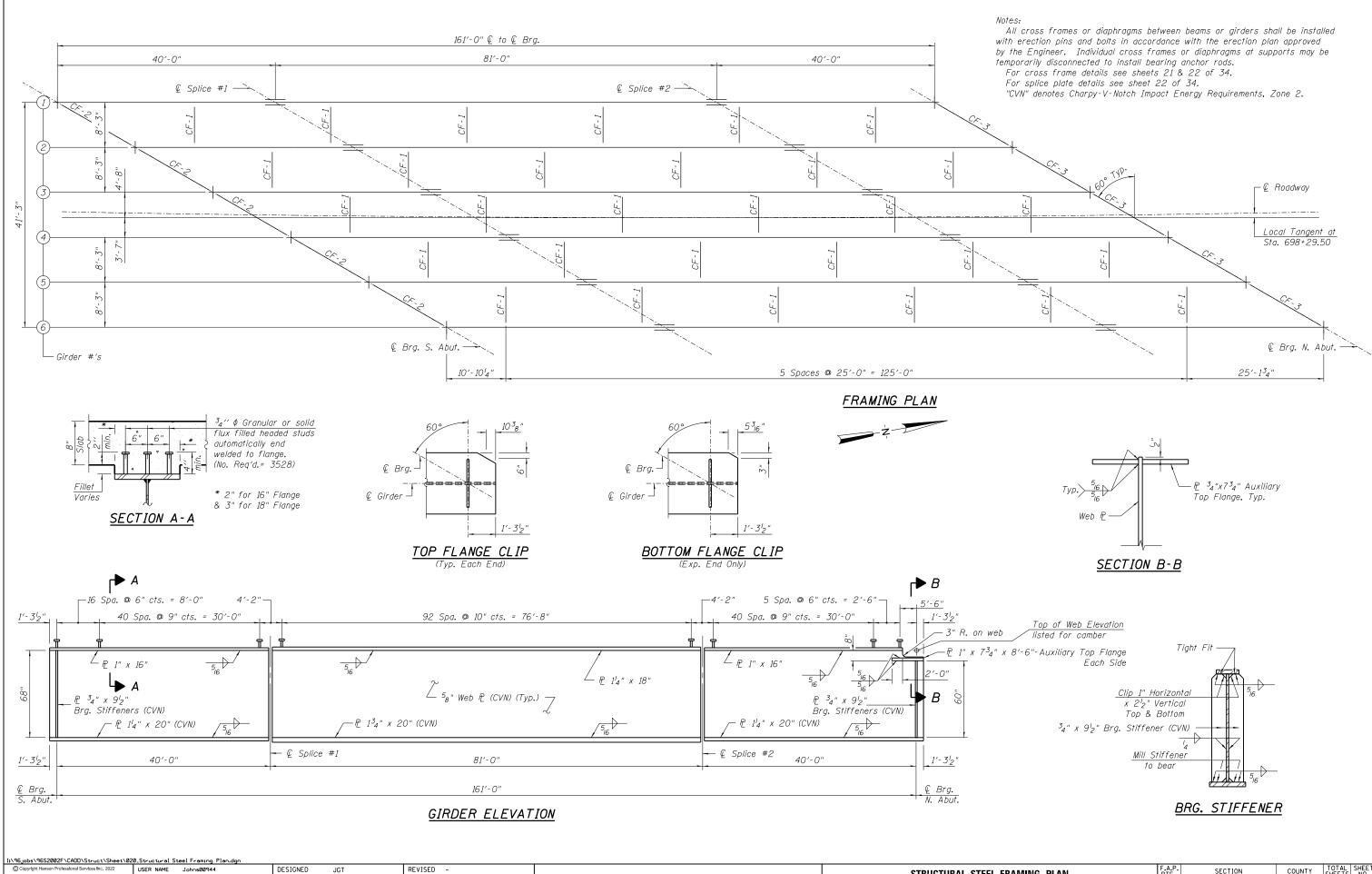
chord by adjustable

with joint manufacturer.

bracket, stool or shims.

MODULAR SWIVEL EXPANSION JOINT STRUCTURE NUMBER 084-9949 SHEET NO. 19 OF 34 SHEETS

TOTAL SHEE SHEETS NO. SECTION COUNTY SANGAMON 368 164 CONTRACT NO. 93671 | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP, 07-00090-08-FP

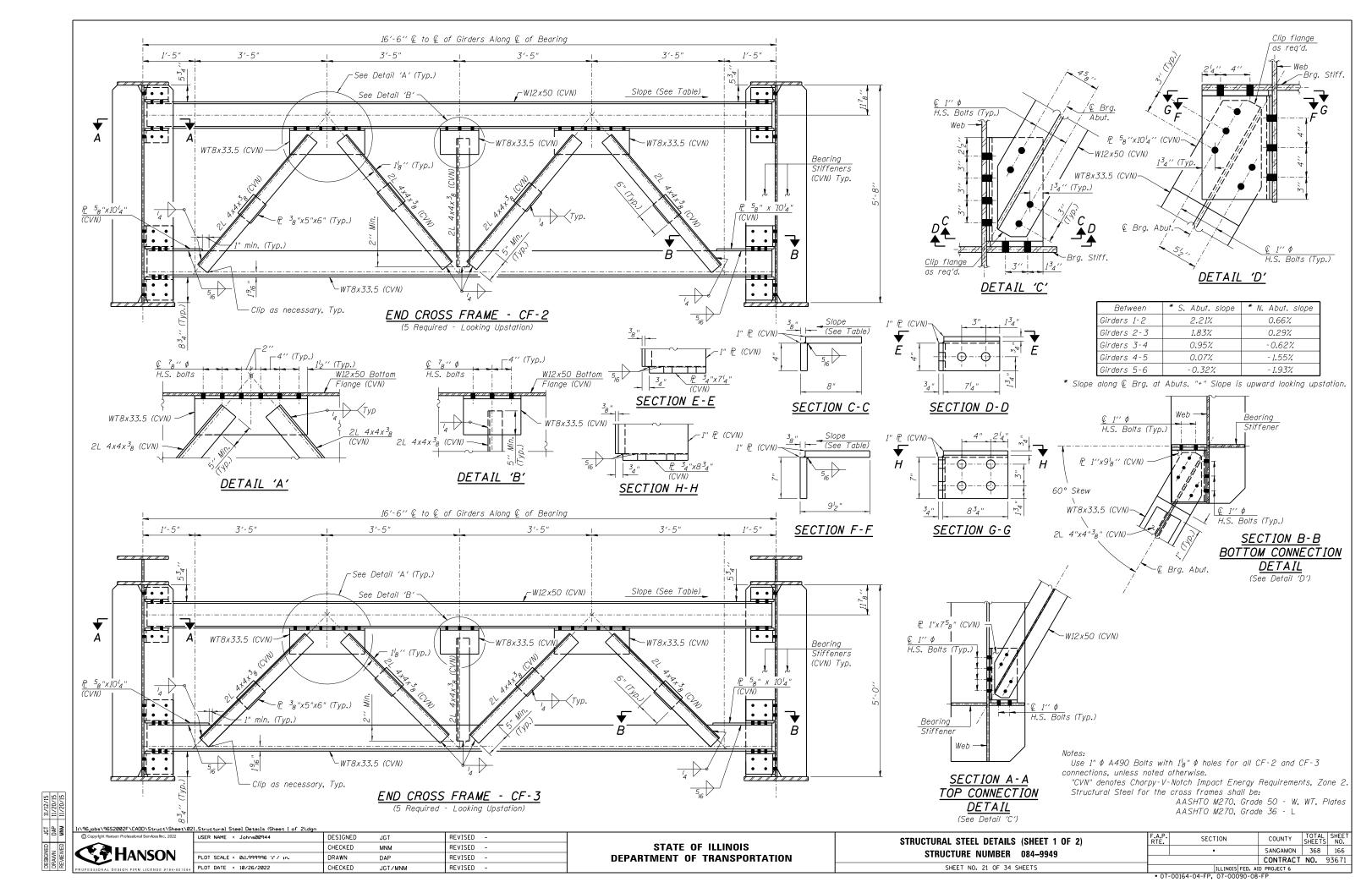


JGT DAP MNM

ht Hanson Professional Services Inc. 2022	USER NAME	Johns00944	DESIGNED	JGT	REVISED -
MILANICONI			CHECKED	MNM	REVISED -
HANSON	PLOT SCALE	0:1.999996 ':" / 1n.	DRAWN	DAP	REVISED -
NAL DESIGN FIRM LICENSE #184-001084	PLOT DATE	10/26/2022	CHECKED	JGT/MNM	REVISED -

STATI	E 01	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

STRUCTURAL STEEL FRAMING PLAN STRUCTURE NUMBER 084-9949	RTE.	
SHEET NO. 20 OF 34 SHEETS		

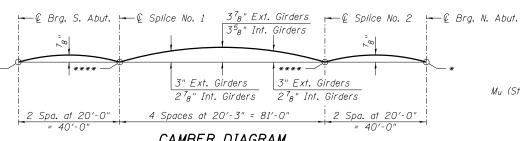


INTERIOR GIRDER	MOME	
		0.5 Sp. 1
$I_{\mathcal{S}}$	(in ⁴)	83983
$I_c(n)$	(in4)	179366
$I_c(3n)$	(in4)	131468
Ic(cr)	(in4)	-
Ss	(in ³)	2680
Sc(n)	(in ³)	3381
Sc(3n)	(in ³)	3118
Sc(cr)	(in ³)	-
Sxc	(in ³)	3103
DC1	(k/')	1.200
MDCI	('k)	<i>3889</i>
DC2	(k/')	0.150
M DC2	('k)	486
DW	(k/')	0.367
Mow	('k)	1189
LLDF		0.526
MŁ + IM	('k)	2921
f∈ (Strength I)	(ksi)	5.0
Mu + 1/3 fi Sxc	('k)	12795
$\phi_f M_D$	('k)	16895
f _s DC1	(ksi)	17.41
f _s DC2	(ksi)	1.87
fs DW	(ksi)	4.58
fs (4+IM)	(ksi)	10.37
f: (Service II)	(ksi)	5.00
$f_s + f_{2}$ (Service II)	(ksi)	39.84
0.95RhFyf	(ksi)	47.50
Vf	(k)	40.3

	GIRDER REACTION TABLE						
		Interior S. or N. Abuts.	Exterior S. or N. Abuts.				
LLDF 0.832			0.832				
0CF		-	1.273				
R DC1	(k)	96.6	96.6				
R DC2	(k)	12.1	12.1				
Row	(k)	29 . 5	29.5				
R4 + IMP	(k)	117.9	<i>150.1</i>				
RTotal	(k)	<i>256.1</i>	288.3				

TOP OF WEB ELEVATIONS

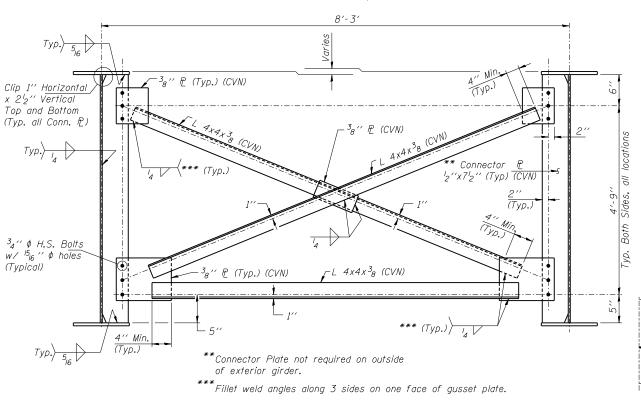
	€ Brg. S. Abut.	Splice No. 1	Splice No. 2	₢ Brg. N. Abut.
Girder 1	625.98	626.89	627.36	626.91
Girder 2	<i>626.3</i> 5	<i>627.16</i>	627.49	627.02
Girder 3	626.65	627.38	627.59	627.07
Girder 4	626.81	627.49	627.57	626.96
Girder 5	626.82	627.44	627.39	626.71
Girder 6	626.76	627.36	627.17	626.39



CAMBER DIAGRAM

Note: Camber includes deflections due to structural steel, deck and parapet. * See Table for Final Top of Web Elevations at abutments.

**** Theoretical Top of Web Elevations before dead load deflections.



INTERIOR CROSS FRAME CF-1 (30 Required)

 I_s , S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.4 and in.3).

 $I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked

sections due to short term composite live loads (in.4 and in.3). $I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to long-term composite (superimposed) dead loads (in.4 and in. 3).

 $I_{c(cr)}$, $S_{c(cr)}$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.4 and in.3).

Sxc: Section modulus about the major axis of section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in. 3).

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

MDC1: Un-factored moment due to non-composite dead load (kip-ft.). DC2: Un-factored long-term composite (superimposed excluding future

wearing surface) dead load (kips/ft.). MDC2: Un-factored moment due to long-term composite (superimposed

excluding future wearing surface) dead load (kip-ft.). DW: Un-factored long-term composite (superimposed future wearing

surface only) dead load (kips/ft.). Mow: Un-factored moment due to long-term composite (superimposed

future wearing surface only) dead load (kip-ft,), $M \not \leftarrow IM$: Un-factored live load moment plus dynamic load allowance

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

1.25 (MDC1 + MDC2) + 1.5 MDW+ 1.75 M&+ IM

 f_ℓ : Factored calculated normal stress at edge of flange for controlling flange plate due to lateral bending, Strength I or Service II as applicable (kip-ft.).

 $\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

 f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi). MDC1 / Snc

 $f_{\mathcal{S}}$ DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

MDC2 / Sc(3n) or MDC2 / Sc(cr) as applicable.

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

Mow / Sc(3n) or Mow / Sc(cr) as applicable. f_s (4+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).

 M_{ξ} + IM / $S_c(n)$ or M_{DW} / $S_c(cr)$ as applicable

 f_s + $f_{1/2}$ (Service II): Sum of stresses as computed below (ksi). fs DC1 + fsDC2 + fsDW + 1.3 fs(4 + IM) + f/2

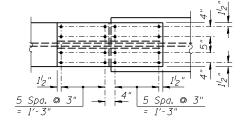
0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

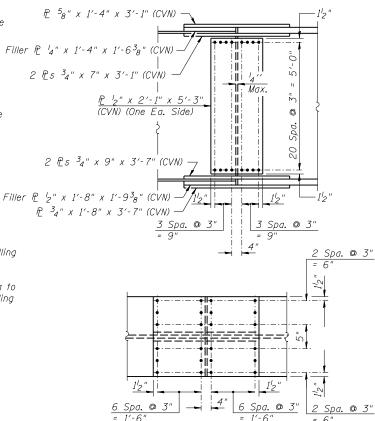
 V_f : Maximum factored shear range in span computed according to Article 6.10.10.

<u>©</u> Brg. N. Abut.

LLDF: Live load distribution factor OCF: Obtuse correction factor

STRUCTURAL STEEL SELF-WEIGHT DEFLECTION DIAGRAM





FIELD SPLICE DETAIL

Notes:

Use $^{7}8$ " ϕ H.S. Bolts with $^{15}16$ " ϕ holes for all Splice Connections. Two hardened washers shall be required over all oversized holes. "CVN" denotes Charpy-V-Notch Impact Energy Requirements, Zone 2. All cross frames or diaphragms between beams or girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods. Structural Steel for the cross frames shall be:

> AASHTO M270, Grade 50 - W, WT, Plates AASHTO M270, Grade 36 - L

Top of Web Elevations at € Brg. N. Abut. do not account for cope. See Girder Elevation on Sheet 20 of 34.

STRUCTURAL STEEL SELF-WEIGHT DEFLECTION TABLE

Girder					Deflection				
Girder	а	Ь	С	d	е	f	g	h	i
1	34"	1 ³ 8"	17 ₈ "	21/4"	23 ₈ "	21/4"	1 ⁷ 8"	1 ³ 8"	34"
2	34"	1/4"	1 ³ 4"	2"	218"	2"	1 ³ 4"	1/4"	3 ₄ "
3	58"	1'4"	1 ³ 4"	2"	21/8"	2"	1 ³ 4"	1'4"	5 ₈ "
4	58"	1/4"	1 ³ 4"	2"	218"	2"	1 ³ 4"	1'4"	5 _{8"}
5	34"	1/4"	1 ³ 4"	2"	218"	2"	1 ³ 4"	1/4"	34"
6	34"	1 ³ 8"	1 ⁷ 8"	21/4"	2 ³ 8"	21/4"	1 ⁷ 8"	1 ³ 8"	34"

\96.jobs\96S2002F\CADD\Struct\Sheet\022.Structural Steel Details (Sheet 2 of 2).dg
© Copyright Hanson Professional Services Inc. 2022 USER NAME = Johns00944 DESIGNED REVISED -JGT CHECKED MNM REVISED LOT SCALE = 0:1.999996 ':' / in. DRAWN DAF REVISED PLOT DATE = 10/26/2022 CHECKED .IGT / MNM REVISED

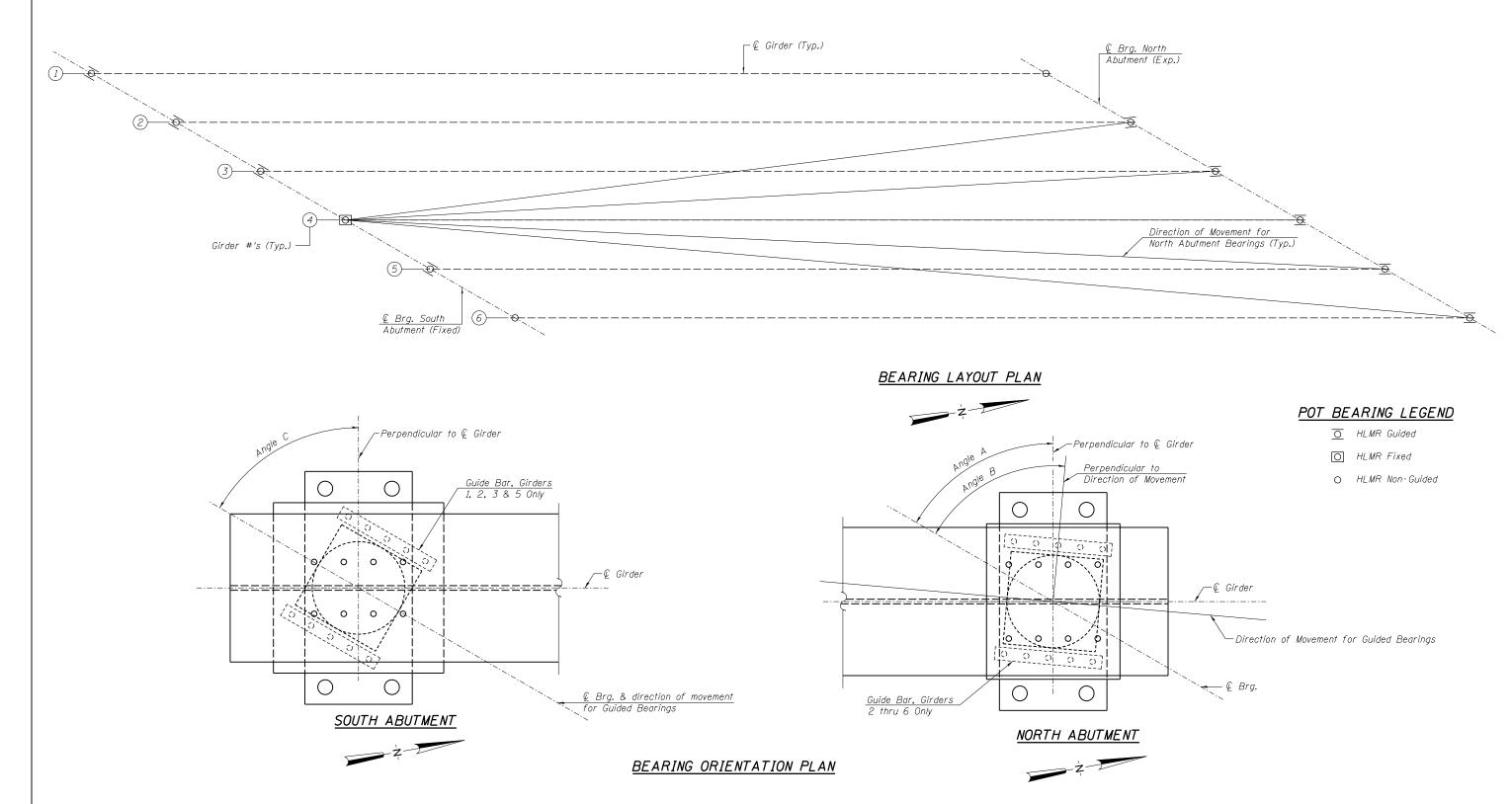
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

10 Equal Spa.

€ Brg. S. Abut.

COUNTY STRUCTURAL STEEL DETAILS (SHEET 2 OF 2) SANGAMON 368 167 STRUCTURE NUMBER 084-9949 CONTRACT NO. 93671 SHEET NO. 22 OF 34 SHEETS ILLINOIS FED. AID PROJECT 6
• 07-00164-04-FP, 07-00090-08-FP

JGT DAP MNM



N. Abut. S. Abut. Girder Angle A Angle B Angle C 60°-00′-00″ 60°-00′-00" N/A 52°-53′-51" 60°-00′-00" 60°-00′-00′ 60°-00′-00" 56°-46′-53" 60°-00′-00" 60°-00'-00" 60°-00′-00" 60°-00′-00"

Notes:

- 1. South Abutment guided bearings shall be unrestrained in a direction along the centerline of bearing. The guide bars shall be oriented parallel to the centerline of the bearing.
- 2. North Abutment guided bearings shall be unrestrained in the direction of movement. The guide bars shall be oriented parallel to the direction of movement.

I:\96jobs\96S2002F\CADD\Struct\Sheet\023_Bearing Orientation Layout.dgn

60°-00'-00"

60°-00′-00"

واحا	I:\96.jobs\9652002F\CADD\Struct\Sheet\023.Bearing Orientation Layout.dgn						
احا	≥ا≥	Copyright Hanson Professional Services Inc. 2023	USER NAME = johns00944	DESIGNED	JGT	REVISED -	Ī
및 .	. Q	A LLANGON		CHECKED	MNM	REVISED -	
DESIGNED		CF HANSON	PLOT SCALE = 0:1.999996 ':" / 10.	DRAWN	DAP	REVISED -	
	5 2	PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 4/28/2023	CHECKED	JGT/MNM	REVISED -	

62°-41'-41"

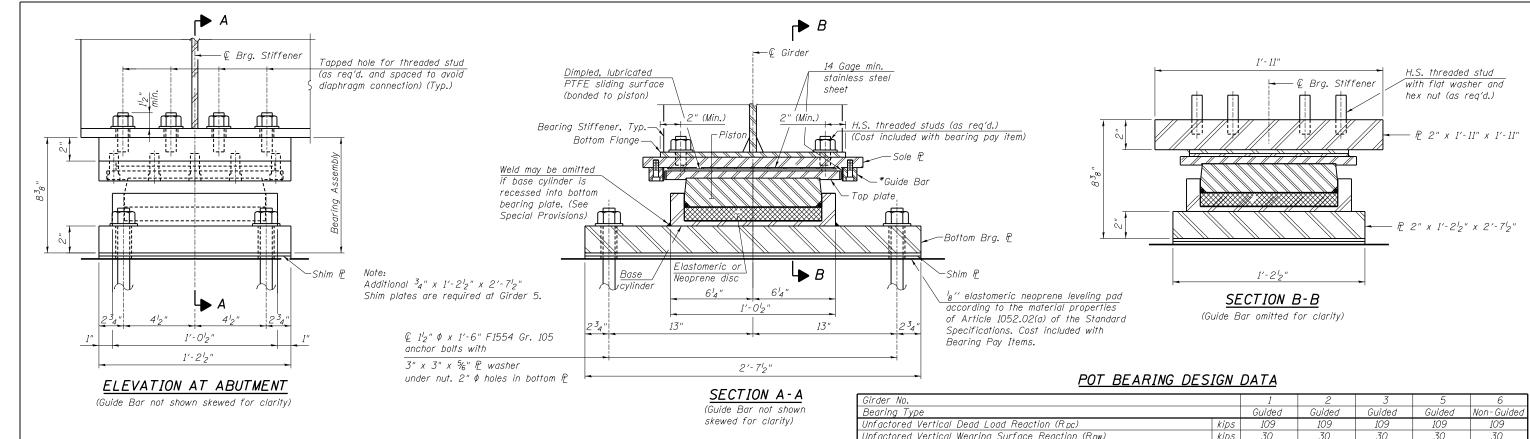
64°-58′-27"

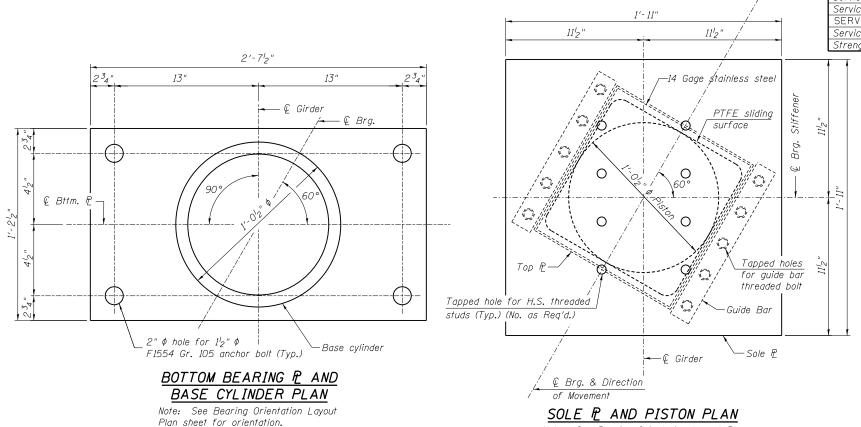
60°-00′-00"

60°-00′-00"

STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

BEARING O	RIENTATIO	N LAYOUT
STRUCTURE	NUMBER	084-9949
SHEET N	0. 23 OF 34	SHEETS





Unfactored Vertical Wearing Surface Reaction (RDw) kips 118 150 118 Unfactored Vertical Live Load without Impact Reaction (RLL) kips Maximum Strength or Extreme Event Lateral Reaction (Hu) 130 40 kips Maximum Strength Limit State Rotation (Ou according to Article 14.4.2 0.018 0.033 0.023 0.020 | rad Unfactored Design Thermal Movement from 50° F (△T) 0.71 Transverse Movement in. Service I Factored Lateral Reaction kips 80 0.016 0.014 Service I Rotation rad SERVICE I FACTORED LONGITUDINAL MOVEMENT 0.18 0.10 0.84 in. 0.24 0.10 Service I Factored Vertical Reaction 289 257 257 257 289 kips Strength I Factored Vertical Reaction kins

Service I Load Factors = 1.0DC + 1.0DW + 1.00LL Strength I Load Factors = 1.25DC + 1.5DW + 1.75LL + 1.2TU Extreme Event Load Factors = 1.0EQ

> * As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece.

BILL OF MATERIAL

	Item	Unit	Total
	HLMR Bearings, Pot, Guided Expansion-300k	Each	4
*	HLMR Bearings, Pot, Non-Guided Expansion-300k	Each	1
	Anchor Bolts, 1 ^l 2"	Each	20

^{**} The value specified in the pay item name is an approximate vertical load capacity that is use for letting and bidding purposes only. Exact bearing capacity will vary subject to final design.

NOTES:

The Structural Steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270, Grade 50. Horizontal forces in the table are the expected applied forces. The Bearing Assembly shall be capable of transmitting 20% of the vertical design load as a horizontal force in the direction normal to the guide bars, whichever is greater. Shim plate(s) shall be the full dimension of the bottom bearing plate. Shim plates not included in total bearing

height. Cost of shims is included with Bearing Pay Items.

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

Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier or abutment concrete.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of ASTM M314 anchor bolts may be used in lieu of ASTM F1554. Anchor bolts at HLMR Bearings may be either cast in place or installed in holes drilled after the supported member is

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. For Non-Guided bearing, eliminate guide bars and top plate.

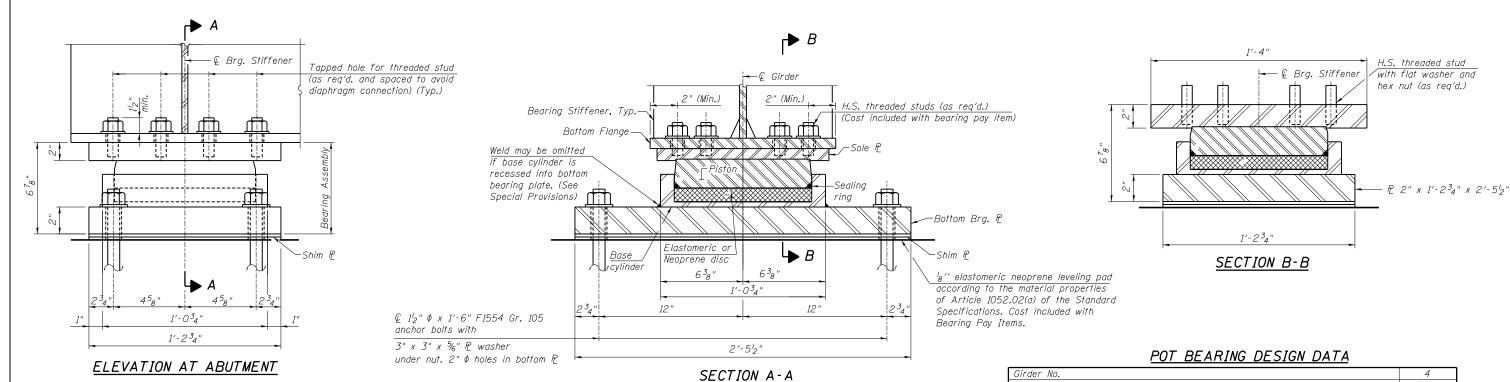
ş	I:\96.jobs\96S2002F\CADD\Struct\Sheet\02	4_HLMR Exp Brg S Abut.dgn				sheet i	for sole plate orientation.
Σ	Copyright Hanson Professional Services Inc. 2023	USER NAME = johns00944	DESIGNED	JGT	REVISED	-	
	A SILLANGONI		CHECKED	MNM	REVISED	-	STA
	CF HANSON	PLOT SCALE = 0:1.999996 ':" / 10.	DRAWN	DAP	REVISED	-	DEPARTMEN
2	PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 5/1/2023	CHECKED	JGT/MNM	REVISED	-	

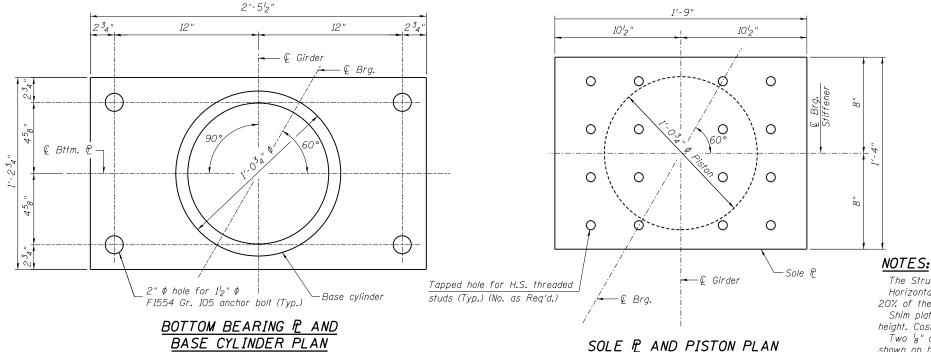
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

Note: See Bearing Orientation Layout Plan

HLMR EXPANSION POT BEARING DETAILS - SOUTH ABUTMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NUMBER 084–9949		•	SANGAMON	368	169
STHOUTONE NOWIDEN 004-3343			CONTRACT	NO.	93671
SHEET NO. 24 OF 34 SHEETS		ILLINOIS FED. AI	D PROJECT 6		

• 07-00164-04-FP, 07-00090-08-FP





Girder No.		4
Bearing Type		Fixed
Unfactored Vertical Dead Load Reaction (Rpc)	kips	109
Unfactored Vertical Wearing Surface Reaction (Rpw)	kips	30
Unfactored Vertical Live Load without Impact Reaction (R _{LL})	kips	118
Maximum Strength or Extreme Event Lateral Reaction (Hu)	kips	200
Maximum Strength Limit State Rotation (Θ_{u} according to Article 14.4.2.2)	rad	0.019
Service I Factored Lateral Reaction	kips	80
Service I Rotation	rad	0.013
Service I Factored Longitudinal Movement	in.	0
Service I Factored Vertical Reaction	kips	257
Strength I Factored Vertical Reaction	kips	388

Service I Load Factors = 1.0DC + 1.0DW + 1.00LL Strength I Load Factors = 1.25DC + 1.5DW + 1.75LL + 1.2TU Extreme Event Load Factors = 1.0EQ

BILL OF MATERIAL

Item	Unit	Total
HLMR Bearings, Pot, Fixed-300k	Each	1
Anchor Bolts, 1/2"	Each	4

* The value specified in the pay item name is an approximate vertical load capacity that is use for letting and bidding purposes only. Exact bearing capacity will vary subject to final design.

The Structural Steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270, Grade 50. Horizontal forces in the table are the expected applied forces. The Bearing Assembly shall be capable of transmitting 20% of the vertical design load as a horizontal force in the direction normal to the guide bars, whichever is greater. Shim plate(s) shall be the full dimension of the bottom bearing plate. Shim plates not included in total bearing height. Cost of shims is included with Bearing Pay Items.

Two l_8 " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier or abutment concrete.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of ASTM M314 anchor bolts may be used in lieu of ASTM F1554. Anchor bolts at HLMR Bearings may be either cast in place or installed in holes drilled after the supported member is in place.

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

I:\96jobs\96S2002F\CADD\Struct\Sheet\025_HLMR Fixed Brg S Abut.dgn

JGT DAP MNM

Copyright Hanson Professional Services Inc. 2023	USER NAME = johns00944	DESIGNED	JGT	REVISED -	Ī	
A LLANGON		CHECKED	MNM	REVISED -		
CST HANSON	PLOT SCALE = 0:1.999996 ':" / 10.	DRAWN	DAP	REVISED -		
PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 5/1/2023	CHECKED	JGT/MNM	REVISED -		

Note: See Bearing Orientation Layout Plan sheet

for bottom plate orientation.

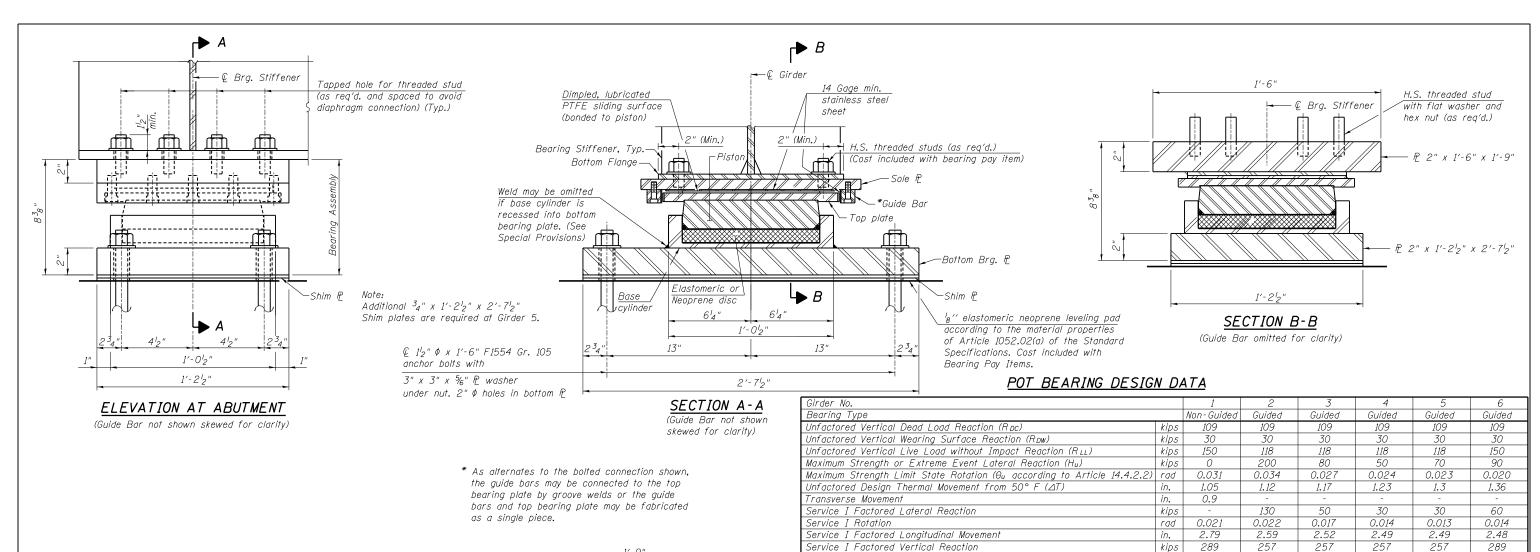
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Note: See Bearing Orientation Layout Plan sheet

for sole plate orientation.

and don difference bond bright be interested documently to thinke being of		and or a specime and in			
HLMR FIXED POT BEARING DETAILS – SOUTH ABUTMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NUMBER 084-9949		•	SANGAMON	368	170
STROUTORE NORMER 004-3343			CONTRACT	NO. 9	3671
SHEET NO. 25 OF 34 SHEETS		ILLINOIS FED. AI	D PROJECT 6		

• 07-00164-04-FP, 07-00090-08-FP



Strength I Factored Vertical Reaction 105" 10% ,—14 Gage stainless steel 2'-712" PTFE sliding 13" 13" 234 6 — ¢ Girder Brg. — @ Brg. Q. ·/ O O, 0 O € Bttm. Tapped holes for guide threaded bolt TOP P--Guide Bar **-**— € Girder — Sole P € Bra.-Direction Tapped hole for H.S. threaded 2" ϕ hole for I_2 " ϕ of Movement studs (Typ.) (No. as Req'd.) -Base cylinder F1554 Gr. 105 anchor bolt (Typ.)

SOLE P AND PISTON PLAN

Note: See Bearing Orientation Layout Plan sheet BASE CYLINDER PLAN for sole plate and quide bar orientation, Note: See Bearing Orientation Layout Plan sheet

Service I Load Factors = 1.0DC + 1.0DW + 1.00LL Strength I Load Factors = 1.25DC + 1.5DW + 1.75LL + 1.2TU Extreme Event Load Factors = 1.0EQ

BILL OF MATERIAL

444

Item	Unit	Total
HLMR Bearings, Pot, Guided Expansion-300k	Each	5
HLMR Bearings, Pot, Non-Guided Expansion-300k	Each	1
Anchor Bolts, 1 ^l 2"	Each	24

** The value specified in the pay item name is an approximate vertical load capacity that is use for letting and bidding purposes only. Exact bearing capacity will vary subject to final design.

from the normal temp. of 50° F. NOTES:

BELOW 50° F.

− © Top Brg.

← ¢ Bott. Brg.

HLMR

(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG. $D=l_{8}^{\prime\prime}$ per each 100' of expansion for every 15° temp. change

> The Structural Steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270, Grade 50. Horizontal forces in the table are the expected applied forces. The Bearing Assembly shall be capable of transmitting 20% of the vertical design load as a horizontal force in the direction normal to the quide bars, whichever is areater. Shim plate(s) shall be the full dimension of the bottom bearing plate. Shim plates not included in the total bearing height. Cost of shims is included with Bearing Pay Items.

kips

--€ Top Brg.

← & Bott. Brg.

ABOVE 50° F.

444

Two $^{\prime}_{8}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placina pier or abutment concrete.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of ASTM M314 anchor bolts may be used in lieu of ASTM F1554. Anchor bolts at HLMR Bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. For Non-Guided bearing, eliminate guide bars and top plate.

l	II 176 JOBS 1765 ZWWZF 1CHDD 15 TFDC T15 NEET 1 WZG LICHT EXP GFG 14 HOUTING					
	Copyright Hanson Professional Services Inc. 2023	USER NAME = johns00944	DESIGNED	JGT	REVISED -	
	A LLANGON		CHECKED	MNM	REVISED -	
	S HANSON	PLOT SCALE = 0:1.999996 ':" / in.	DRAWN	DAP	REVISED -	
	PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 5/1/2023	CHECKED	JGT/MNM	REVISED -	

BOTTOM BEARING P AND

for bottom plate orientation.

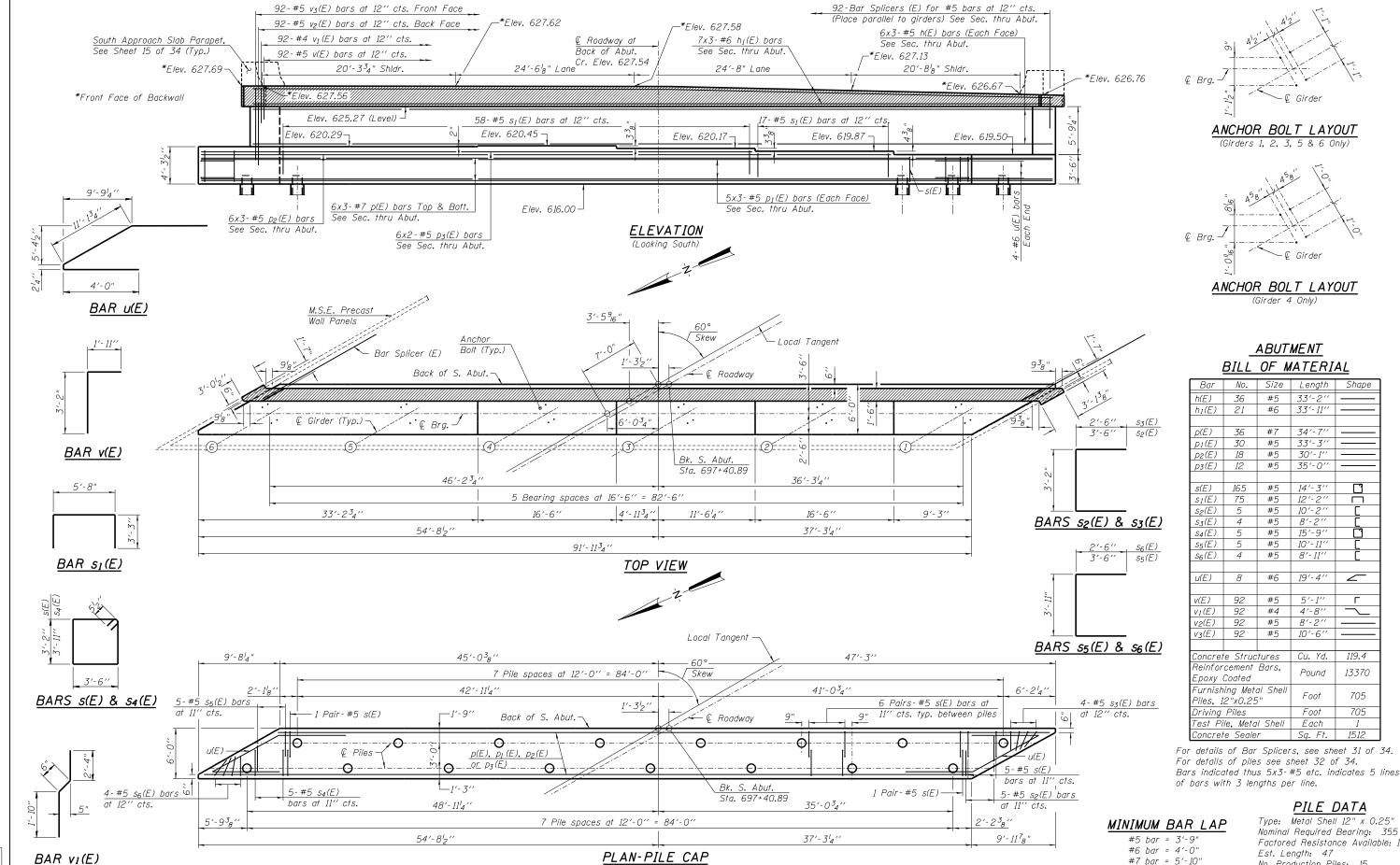
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

naca bearing, chiminare galac bars and rop place.					
EXPANSION POT BEARING DETAILS - NORTH ABUTMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NUMBER 084-9949		•	SANGAMON	368	171
STROUTURE NUMBER 004-3343			CONTRACT	NO. 9	3671
SHEET NO. 26 OF 34 SHEETS		ILL INOIS FED. AT	D PROJECT 6		

388

• 07-00164-04-FP, 07-00090-08-FP

JGT MNM



PILE DATA

33'-3"

35′-0′

14'-3''

12'-2

15′-9′′

19'-4''

4'-8'

8'-2"

10′-6′′

Cu. Yd.

Pound

Foot

Foot

Fach

П

119.4

13370

705

705

#5

#6

Type: Metal Shell 12" x 0.25" Nominal Required Bearing: 355 Factored Resistance Available: 195 Est. Length: 47 No. Production Piles: 15 No. Test Piles: 1

96 jobs\96S2002F\CADD\Struct\Sheet\027_South Abutment.don

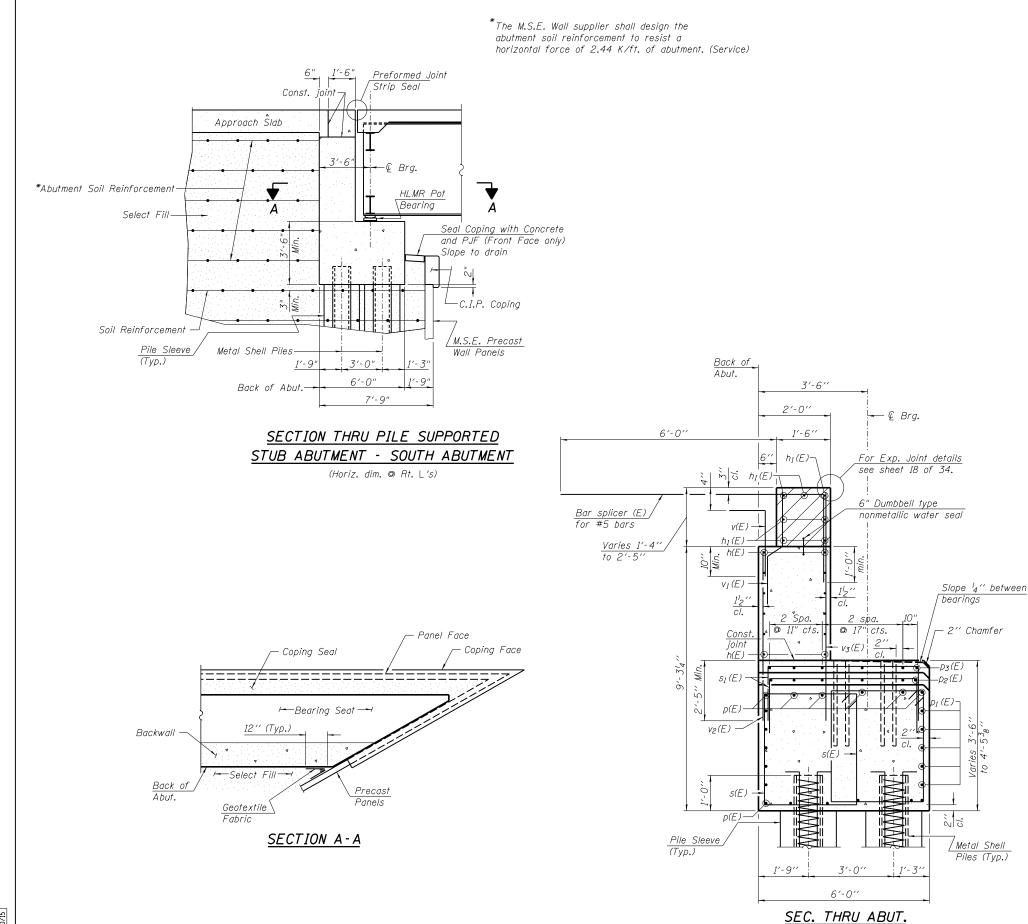
Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNED	JGT	REVISED -
A LLANGON		CHECKED	MNM	REVISED -
CP HANSON	PLOT SCALE = 0:1.999996 ':" / 10.	DRAWN	DAP	REVISED -
PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -

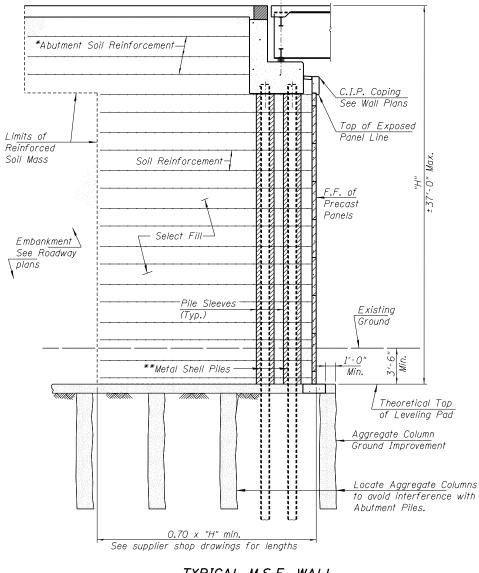
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SOUTH ABUTMENT STRUCTURE NUMBER 084-9949 SHEET NO. 27 OF 34 SHEETS

F.A.P. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.			
•			SANGAMON	368	172				
				CONTRACT	NO. 9	93671			
		ILLINOIS	FED. A	ID PROJECT 6					
• 07-00164-04-FB 07-00000-09-FB									

07-00164-04-FP, 07-00090-08-FI





TYPICAL M.S.E. WALL SECTION AT ABUTMENT

(Section at Rt. L's)

** Drive piles after construction of M.S.E. wall and 90% Settlement thru Sleeves. The Sleeves should be filled with dry, loose sand after piles are driven. Complete pile driving after construction of MSE wall and required settlement period as determined by the Contractor's Aggregate Column Ground Improvement (ACGI) design. See Retaining Wall Plans for specific performance requirements. Piles shall be driven to final bearing after theoretical settlement remaining is 0.4 inches or less. Fill void between pile and sleeve with loose dry sand.

Contractor shall have the option to drive piles after ACGI installation and before construction of MSE wall if sleeves are set around piles and piles are redriven after required settlement period. Concrete and reinforcement bars, cut flush with concrete shall be placed before redriving. Redrive each pile to not less than 1.0 inch additional penetration and not less than the required nominal driven bearing unless in the opinion of the Engineer, further driving would result in damage to the pile.

Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure. Space reinforcement in cap to miss anchor bolts.

Pour steps monolithically with cap.

See Wall Plans for Aggregate Column Ground Improvement Details.

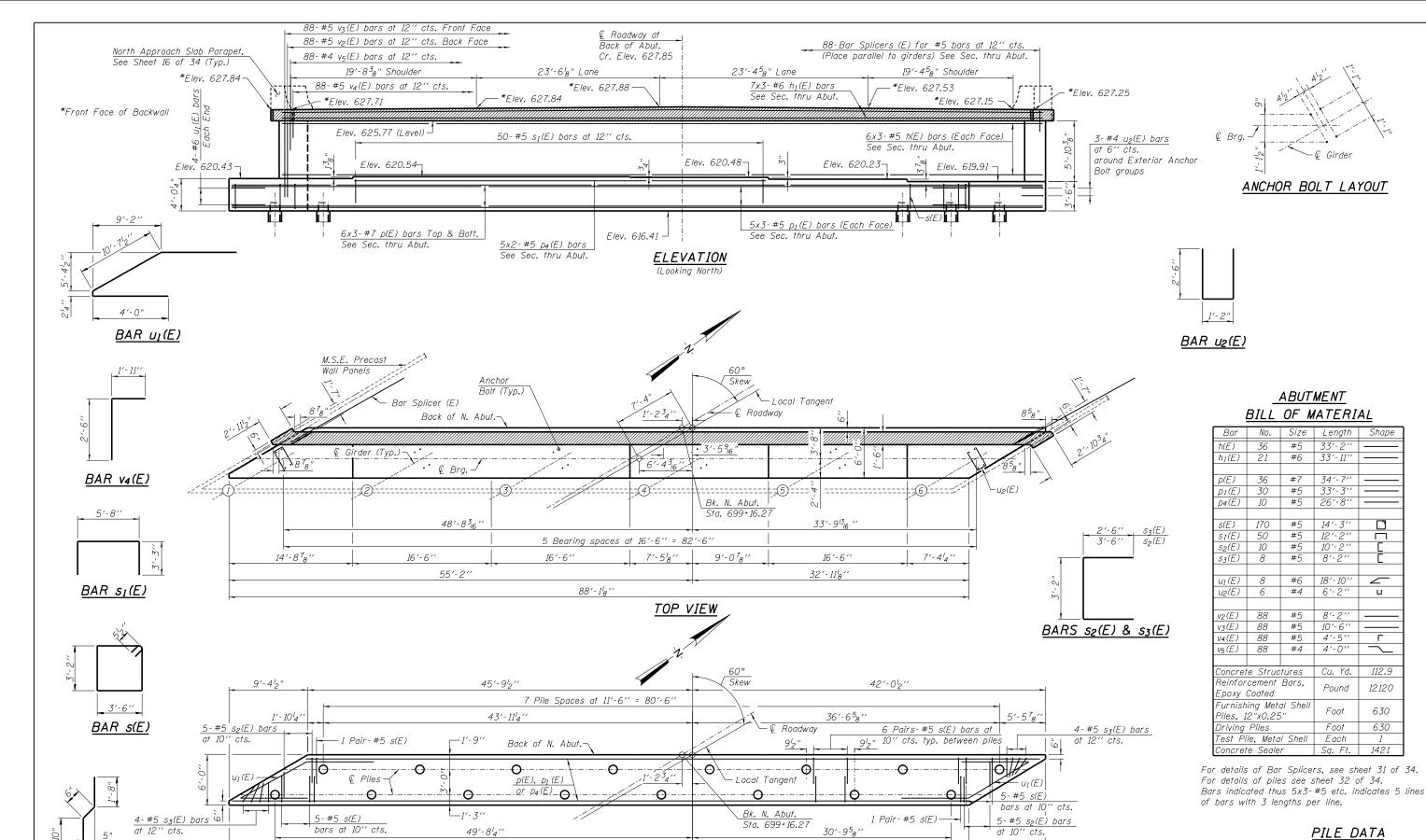
1	1: 1 to jobs 1 to 32 bb2 1 1 CHOD 13 true t 13 lee t 1920 20 ut 1 Hou dilett to be to 115.0g li				
	Copyright Hanson Professional Services Inc. 2023	USER NAME = johns00944	DESIGNED	JGT	REVISED -
	THAN SON		CHECKED	MNM	REVISED -
	CST HANSON	PLOT SCALE = 0.166666 '/ in.	DRAWN	DAP	REVISED -
	PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 4/28/2023	CHECKED	JGT/MNM	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

(Horiz. Dim. @ Rt. L's)

SOUTH ABUTMENT DETAILS STRUCTURE NUMBER 084-9949 SHEET NO. 28 OF 34 SHEETS

SECTION COUNTY SANGAMON 368 173 CONTRACT NO. 93671 | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP. 07-00090-08-FP



MINIMUM BAR LAP

#5 bar = 3'-9" #6 bar = 4'-0" #7 bar = 5'-10" Type: Metal Shell 12" x 0.25" Nominal Required Bearing: 355 Factored Resistance Available: 195 Est. Length: 42 No. Production Piles: 15 No. Test Piles: 1

96iobs\96S2002F\CADD\Struct\Sheet\029_North Abutment.don

BAR V5(E)

Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNED	JGT	REVISED -	
A LLANGON		CHECKED	MNM	REVISED -	
CF Hanson	PLOT SCALE = 0.166666 '/ in.	DRAWN	DAP	REVISED -	
PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -	

55′-2′′

5'-534'

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

32'-11'8'

7 Pile spaces at 11'-6'' = 80'-6''

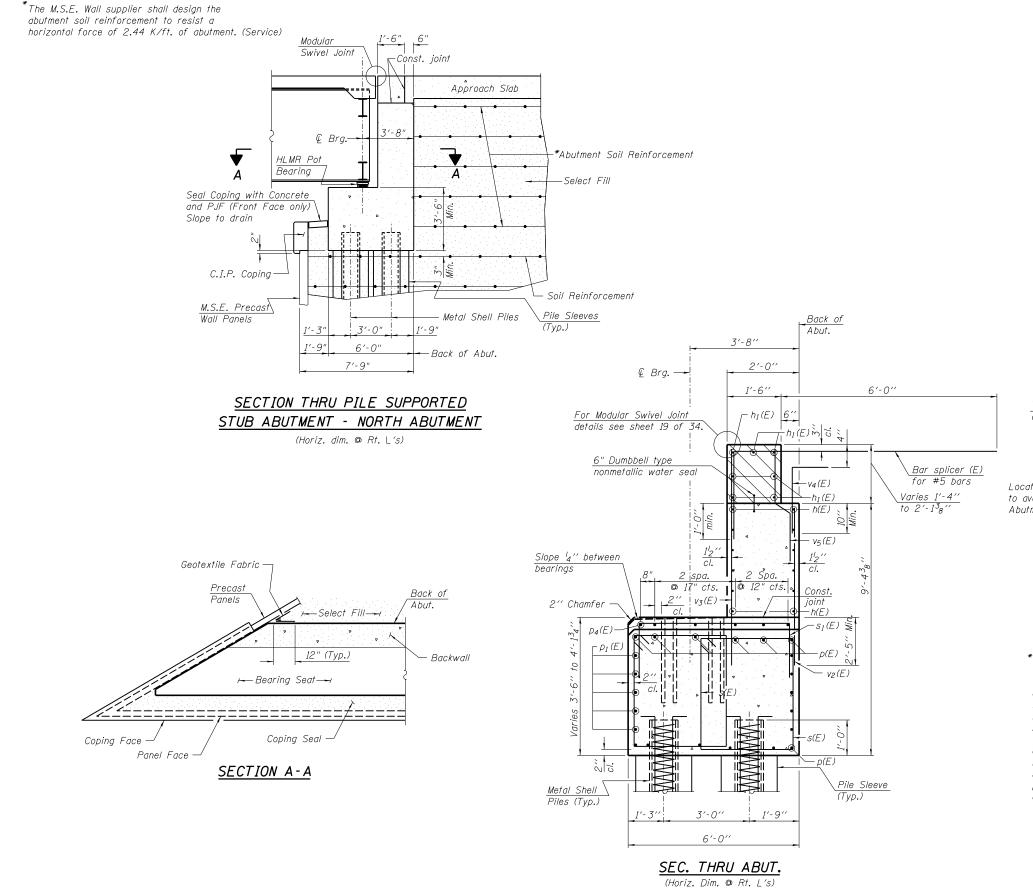
PLAN-PILE CAP

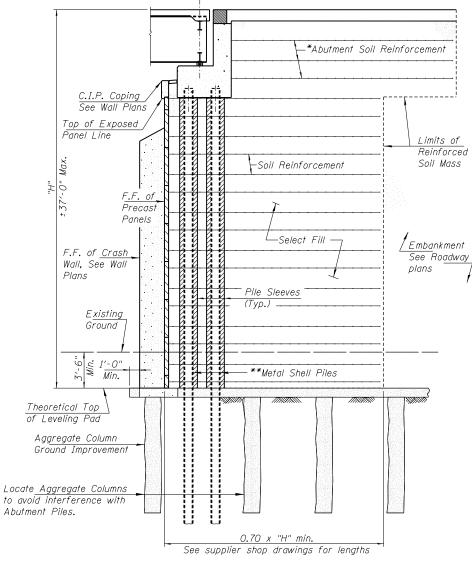
NORTH ABUTMENT STRUCTURE NUMBER 084-9949 SHEET NO. 29 OF 34 SHEETS

2'-12'

9'-13₈"

F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
	•		SANGAMON	368	174	
				CONTRACT	NO. 9	3671
		ILLINOIS	FED. A	ID PROJECT 6		
• 07-00164-04-FP 07-0090-08-FP						





TYPICAL M.S.E. WALL SECTION AT ABUTMENT

*** Drive piles after construction of M.S.E. wall and 90% Settlement thru Sleeves. The Sleeves should be filled with dry, loose sand after piles are driven.

Complete pile driving after construction of MSE wall and required settlement period as determined by the Contractor's Aggregate Column Ground Improvement (ACGI) design. See Retaining Wall Plans for specific performance requirements. Piles shall be driven to final bearing after theoretical settlement remaining is 0.4 inches or less. Fill void between pile and sleeve with loose dry sand.

Contractor shall have the option to drive piles after ACGI installation and before construction of MSE wall if sleeves are set around piles and piles are redriven after required settlement period. Concrete and reinforcement bars, cut flush with concrete shall be placed before redriving . Redrive each pile to not less than 1.0 inch additional penetration and not less than the required nominal driven bearing unless in the opinion of the Engineer, further driving would result in damage to the pile.

Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.

Space reinforcement in cap to miss anchor bolts.

Pour steps monolithically with cap.

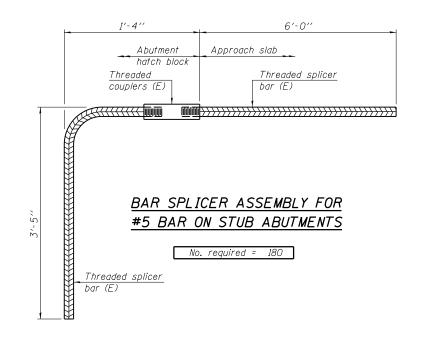
See Wall Plans for Aggregate Column Ground Improvement Details.

1	1:\76J06\$\7632WUZF\CHUU\Struct\Sheet\US	obs/1852EV2F \CHUU\5truct\5neet\W3W_North Houtment Details.ogn				
	Copyright Hanson Professional Services Inc. 2023	USER NAME = johns00944	DESIGNED	JGT	REVISED -	
	THAN IS ON I		CHECKED	MNM	REVISED -	
	CST HANSON	PLOT SCALE = 0:1.999996 ':" / 10.	DRAWN	DAP	REVISED -	
	PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT DATE = 4/28/2023	CHECKED	JGT/MNM	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

NORTH ABUTMENT DETAILS STRUCTURE NUMBER 084-9949 SHEET NO. 30 OF 34 SHEETS

SECTION COUNTY SANGAMON 368 175 CONTRACT NO. 93671 | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP. 07-00090-08-FP



 $\underbrace{ \textit{NOTES}}_{\textit{Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi}$

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.

36S2002F\CADD\Struct\Sheet\031_Bar Splicer Assembly Details.dgr

[:\45jobs\4552002r\CADU\5truct\5heet\031_Bar 5plicer Assembly Details.dgn					
Copyright Hanson Professional Services Inc. 2022	USER NAME = Johns00944	DESIGNED	JGT	REVISED -	
THAN SON		CHECKED	MNM	REVISED -	
CY HANSON	PLOT SCALE = 0.166667 '/ in.	DRAWN	DAP	REVISED -	
PROFESSIONAL DESIGN FIRM LICENSE #184-00	084 PLOT DATE = 10/26/2022	CHECKED	JGT/MNM	REVISED -	

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

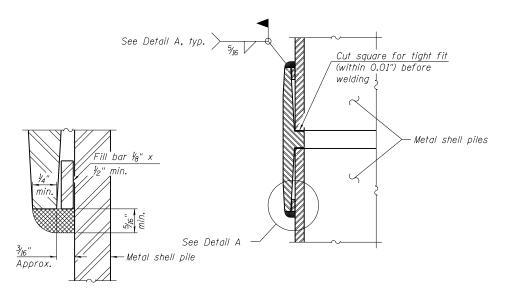
BAR	SPLIC	ER	AS	SE	MB	LY DETAIL	S
STR	UCTUR	ΕN	IUI	ИB	ER	084-9949)
	SHEET	NO.	31	OF	34	SHEETS	

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	•		SANGAMON	368	176
			CONTRACT	NO. 9	93671
	ILLINOIS	FED. AI	D PROJECT 6		



METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



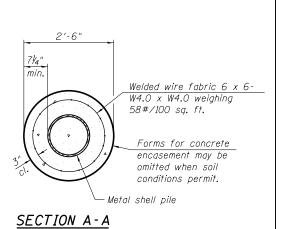
DETAIL A

WELDED COMMERCIAL SPLICE

Notes:

The $\frac{1}{8}$ " x $\frac{1}{2}$ " min. fill bar may be constructed of 2 bars with a $\frac{1}{8}$ " max. gap between them. Pile segments shall be driven to solid contact with splicer before welding.

Bottom of pile cap **ELEVATION**

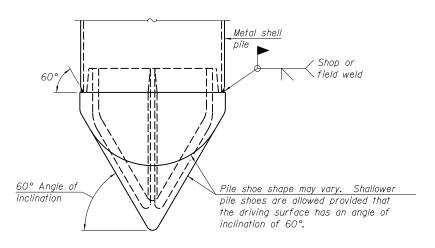


INDIVIDUAL PILE CONCRETE ENCASEMENT

(When specified)

Metal shell pile 3⁄4" End plate field weld s = t - 1/16"

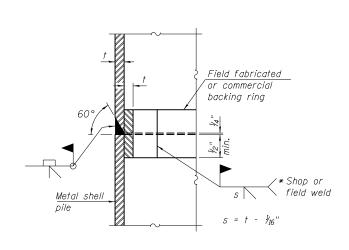
END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

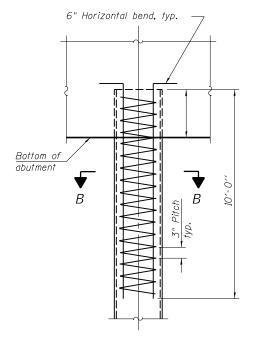
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential

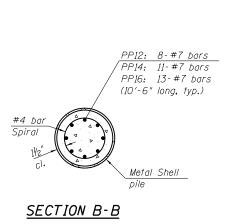
1-1-2020



COMPLETE PENETRATION WELD SPLICE

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





ELEVATION

REINFORCEMENT AT ABUTMENTS

(Omit when concrete encasement is specified)

Note:

The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS

I:\96jobs\96S2002F\CADD\Struct\Sheet\032_Metal Shell Piles.dgr © Copyright Hanson Professional Services Inc. 2022 USER NAME = Johns

USER NAME = Johns00944 DESIGNED JGT CHECKED MNM PLOT SCALE = 0.166667 '/ in. DRAWN DAP PLOT DATE = 10/26/2022 CHECKED JGT/MNM

REVISED REVISED REVISED REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS STRUCTURE NUMBER 084-9949 SHEET NO. 32 OF 34 SHEETS

TOTAL SHEE SHEETS NO. SECTION COUNTY SANGAMON 368 177 CONTRACT NO. 93671 | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP, 07-00090-08-FP

Sta. 697+18, 14' LT

595.23

| V Qu w//
| 4 1.67 BSH 31.3
| Topsoil & dark brown silty clay w/ trace sand.
| 4 1.67 BSH 31.3 |
| Oh DD | 5 0.5 P | 28.8 | Black, brown and gray very fine sandy silty clay w/ oxidation spots - LOESS.
| 5 0.8 P 28.7 |
| 2 0.74 BSH 27.8 |
| 4 1.47 B 24.7 |
| 2 0.47 BSH 32.6 | Orange-brown, yellowish-brown, and gray very fine to fine sandy silty clay and sandy clayey silt w/ trace coarse sand, small gravel, and calcareous - TILL.
| 15 6.21 SH 11.3 |
| 28 11.9 |
| 570.23 | Bottom of hole = 25.0 feet

B-16 Sta. 697+72, 32' RT 595.47 -Dark brown silty clay w/ trace sand & gravel - FILL. 5 1.55 SH 25.8 592.47 Yellowish-brown and gray very fine sandy silty clay w/ oxidation spots - LOESS. ₩ Oh 0 1.16 BSH 26.9 589.47 Orange-brown and gray very fine sandy silt w/ trace clay - LOESS. 4 1.40 B 25.8 587.47 Orange-brown and gray very fine sandy silty clay - LOESS. 2 0.58 SH 32.8 2 1.12 BSH 27.2 3 1.86 BSH 23.9 579.47 Yellow-brown, orange-brown, and gray sandy silty clay w/ trace coarse sand and small gravel -4 1.24 B 22.7 19 7.76 B 13.2 57 4.5 P 8.2 Bottom of hole = 25.0 feet

B-17 Sta. 697+54, 6' RT 594.54 Orange-brown and gray very fine sandy silty clay w/ oxidation spots - LOESS. 6 1.55 SH 28.9 591.54 Yellowish-brown and gray very fine sandy silt - LOESS. ∇ Oh ▼ DD 587.04 Yellowish-brown and gray very fine sandy silt w/ trace clay - LOESS. 0.12 B 27 578.54 Orange-brown, yellowish-brown, and black very fine sandy silty clay w/ trace coarse sand and gravel - Till. 28 6.98 B 10.6 46 4.5 P 11.2 Greenish-gray silty fine sand - TILL. 50/5" 2.0 P 15.2 563.54 Gray SHALE. 70 15.8 61 1.44 SH 17.6 50/4" 1.0 P 19.5 45 3.8 P 12.7 Bottom of hole = 50.0 feet

LEGEND

N Standard Penetration Test N (blows/ft)

Ou Unconfined Strength (tsf)

w% Natural Moisture Content (%)

Water Surface Elevation Encountered in Boring

_**▼**DD ____Oh

DD = During Drilling Oh = At Completion

I:\96jobs\96S2002F\CADD\Struct\Sheet\033_Borings (Sheet 1 of 2).dgn

	Copyright Hanson Professional Services Inc. 2022	USER	NAME	=	Johns
9	A LLANGON				
	SPHANSON	PLOT	SCALE	=	0:2.000
!	PROFESSIONAL DESIGN FIRM LICENSE #184-001084	PLOT	DATE	=	10/26/

USER NAME = Johns00944	DESIGNED	JGT	REVISED -
	CHECKED	MNM	REVISED -
PLOT SCALE = 0:2.0000000 ':' / in.	DRAWN	DAP	REVISED -
PLOT DATE = 10/26/2022	CHECKED	ICT /MNM	REVISED -

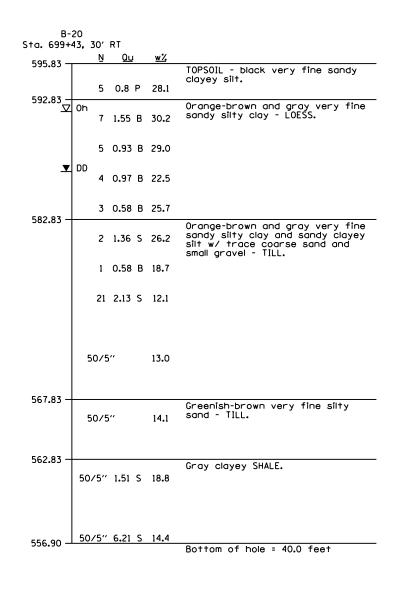
TOTAL SHEET SHEETS NO.

SANGAMON 368 178

CONTRACT NO. 93671

COUNTY

B-18 Sta. 699+27, 8' RT N Qu 595.44 TOPSOIL - black very fine sandy clayey silt. 4 1.5 P 31.0 590.94 Yellowish-brown and gray very fine sandy clayey silt - LOESS. **▼** DD 587.94 Brown and gray very fine sandy silt w/ trace clay - LOESS. 0.33 SH 24 579.44 Yellowish-brown and gray fine sandy clayey silt w/ trace coarse sand and small gravel - Till. 22 4.65 S 14.7 50/6" 3.30 S 9.3 567.44 Greenish-gray silty very fine to fine sand - TILL. 50/3" 562.44 Gray SHALE. 70 1.2 P 11.4 50/5" 1.0 P 19.5 50/4" 4.0 P 10.9 50/5" Bottom of hole = 50.0 feet



- Standard Penetration Test N (blows/ft)
- Unconfined Strength (tsf)
- Natural Moisture Content (%)

 $\sqrt{2}$ 0h

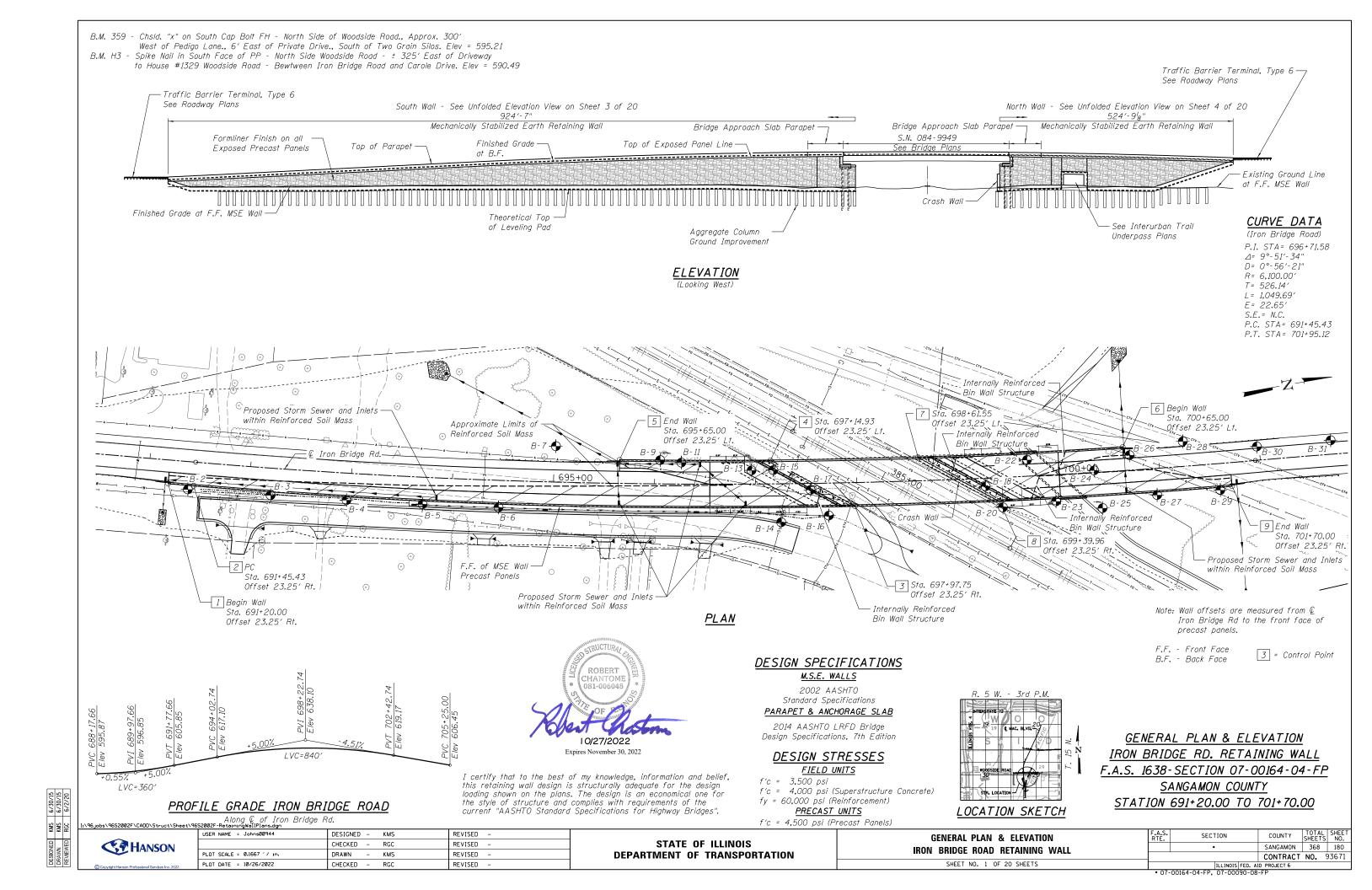
Water Surface Elevation Encountered in Boring

DD = During Drilling

Oh = At Completion

Copyright Hanson Professional Services Inc. 2022
HANSON

2	USER NAME = Johns00944	DESIGNED	JGT	REVISED -
		CHECKED	MNM	REVISED -
	PLOT SCALE = 0:2.0000000 ':' / in.	DRAWN	DAP	REVISED -
	PLOT DATE = 10/26/2022	CHECKED	.IGT/MNM	REVISED -



WALL CONTROL POINTS

Control Point	Station	Offset
1	691+20.00	23.25′ RT
2	691+45.43	23.25′ RT
3	697+97.75	23.25′ RT
4	697+14.93	23.25′ LT
5	695+65.00	23.25′ LT
6	700+65.00	23.25′ LT
7	698+61 . 55	23.25′ LT
8	699+39.96	23.25′ RT
9	701+70.00	23.25′ RT

GENERAL NOTES

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. Bars indicated thus 12 x 4 #5 etc. Indicates 12 lines of bars with 4 lengths per line.
- 3. The MSE wall supplier is alerted to the fact that up to 3.0 inches settlement are anticipated for the MSE wall at the maximum embankment height if the wall was constructed on untreated subgrade. The Aggregate Column Ground Improvement (ACGI) is expected to reduce the anticipated settlement. The MSE wall supplier shall take appropriate measures to accommodate the settlement.
- 4. The Top of Exposed Panel Elevations shown on Sheets 3 and 4 are final elevations after allowing settlement. The MSE wall supplier shall provide additional panel heights to allow for the settlement of the leveling pad during installation. Settlement may vary along the length of wall. Coordinate additional panel heights to be provided with Aggregate Column Ground Improvement subcontractor design.

INDEX OF SHEETS

1. General Plan & Elevation 2. General Notes 3. MSE Unfolded Elevation - South Wall 4. MSE Unfolded Elevation - North Wall 5. MSE Details 6. Details at Pedestrian Underpass 7. Crash Wall Details 8. Anchorage Slab - South Wall (East) 9. Anchorage Slab - South Wall (West) 10. Anchorage Slab - North Wall
3. MSE Unfolded Elevation - South Wall 4. MSE Unfolded Elevation - North Wall 5. MSE Details 6. Details at Pedestrian Underpass 7. Crash Wall Details 8. Anchorage Slab - South Wall (East) 9. Anchorage Slab - South Wall (West)
4. MSE Unfolded Elevation - North Wall 5. MSE Details 6. Details at Pedestrian Underpass 7. Crash Wall Details 8. Anchorage Slab - South Wall (East) 9. Anchorage Slab - South Wall (West)
5. MSE Details 6. Details at Pedestrian Underpass 7. Crash Wall Details 8. Anchorage Slab - South Wall (East) 9. Anchorage Slab - South Wall (West)
6. Details at Pedestrian Underpass 7. Crash Wall Details 8. Anchorage Slab - South Wall (East) 9. Anchorage Slab - South Wall (West)
7. Crash Wall Details 8. Anchorage Slab - South Wall (East) 9. Anchorage Slab - South Wall (West)
8. Anchorage Slab - South Wall (East) 9. Anchorage Slab - South Wall (West)
9. Anchorage Slab - South Wall (West)
10 Anchorage Slab - North Wall
10. Anchorage Siab North Wall
11. Parapet & Anchorage Slab Details
12. South Wall Ground Improvements
13. North Wall Ground Improvements
14. Subsurface Data Profile
15. Subsurface Data Profile
16. Subsurface Data Profile
17. Subsurface Data Profile
18. Subsurface Data Profile
19. Subsurface Data Profile
20. Subsurface Data Profile

TOTAL BILL OF MATERIAL

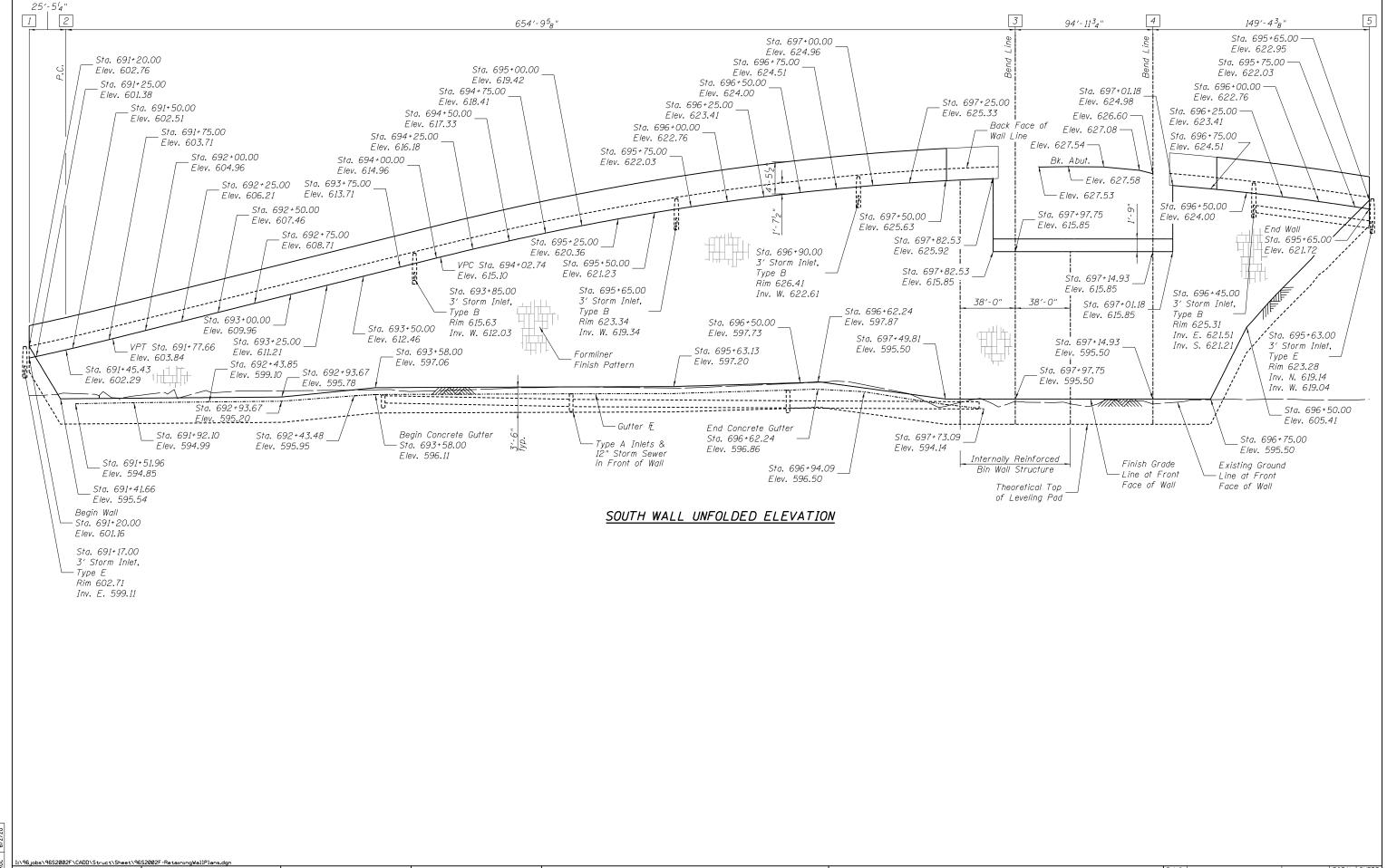
UNIT	TOTAL
Sq. Ft.	31979
Pound	96510
Cu. Yd.	2979
Cu. Yd.	576.7
Cu. Yd.	119.9
Lump Sum	1
	Sq. Ft. Pound Cu. Yd. Cu. Yd. Cu. Yd.

 1:\96jobs\9652002F\CADD\Struct\Sheet\9652002F-RetainingWallPlans.dgr

 FILE NAME =
 USER NAME = Johns00944



USER NAME = Johns00944	DESIGNED	-	KMS	REVISED	_
	CHECKED	-	RGC	REVISED	-
PLOT SCALE = 0.1667 '/ in.	DRAWN	-	KMS	REVISED	-
PLOT DATE = 10/26/2022	CHECKED	-	RGC	REVISED	_



DESIGNED KMS 6/30/15
DRAWN KMS 6/30/15

FILE NAME :

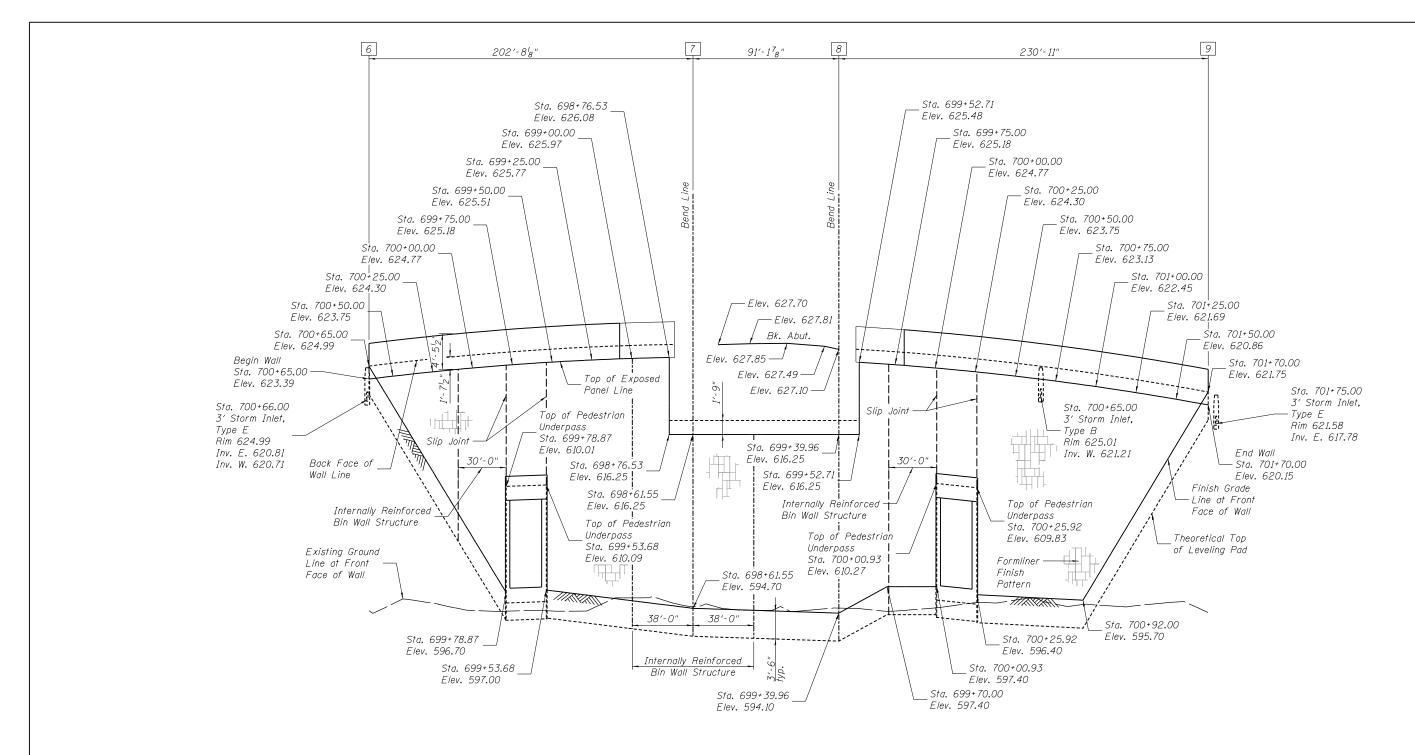
HANSON

Consider the function of Sension to 2022

USER NAME = Johns00944	DESIGNED -	KMS	REVISED -
	CHECKED -	RGC	REVISED -
PLOT SCALE = 0.1667 '/ 10.	DRAWN -	KMS	REVISED -
PLOT DATE = 10/26/2022	CHECKED -	RGC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

M.S.E. UNFOLDED ELEVATION — SOUTH WALL IRON BRIDGE ROAD RETAINING WALL		SECTION		TOTAL SHEETS	
		•	SANGAMON	368	182
		CONTRACT NO.			
SHEET NO. 3 OF 20 SHEETS		ILLINOIS FED. A	D PROJECT 6		
	• 07	-00164-04-FP, 07-00090-08	-FP		



NORTH WALL UNFOLDED ELEVATION

KMS 6/30/15 KMS 6/30/15 D RGC 6/2/20

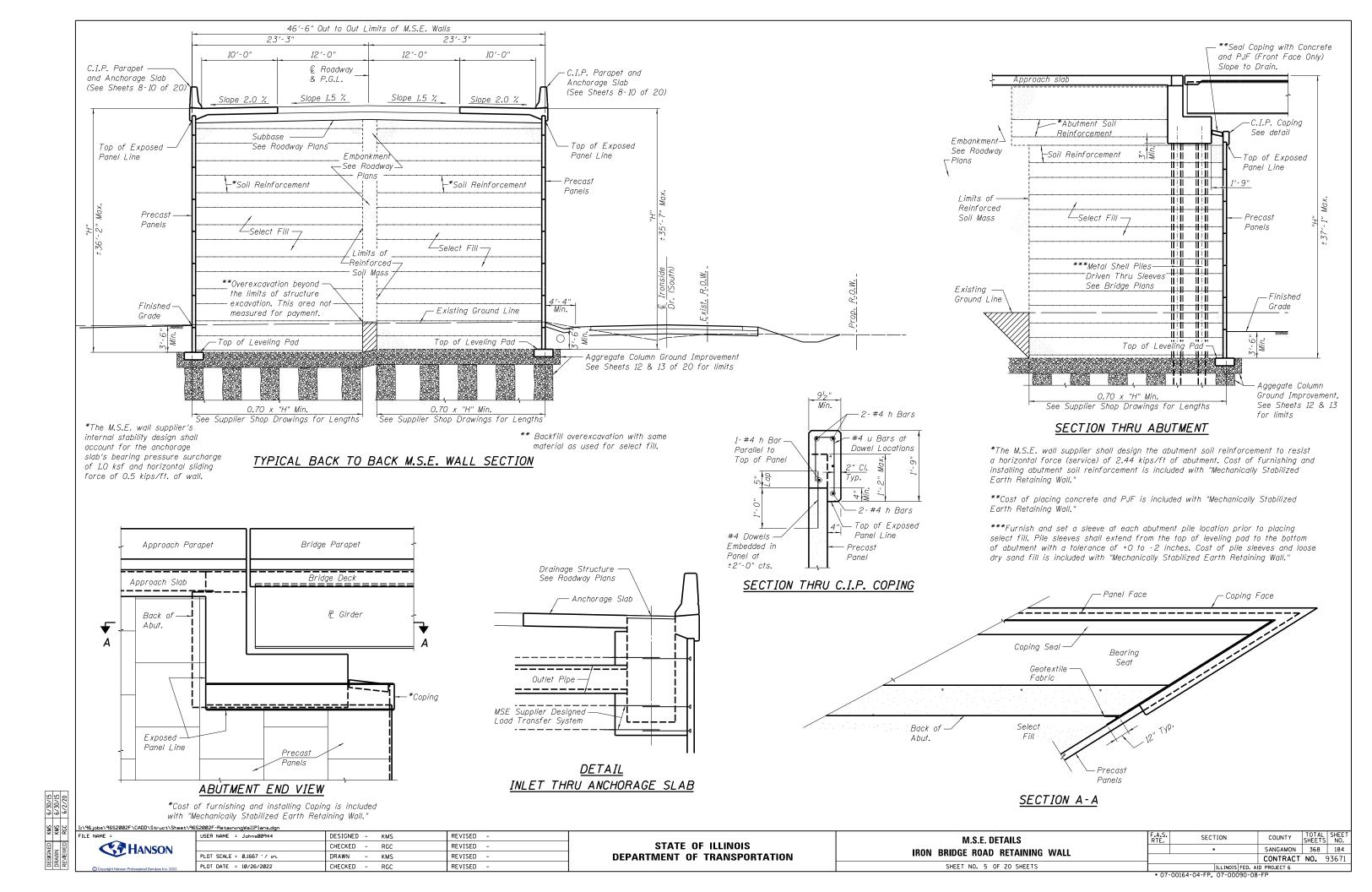
I:\96jobs\96S2002F\CADD\Struct\She
FILE NAME =
HANSON

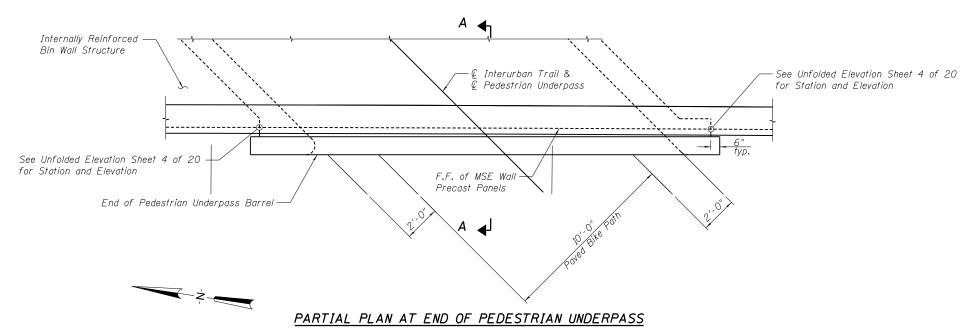
Sheet\96	heet\96S2002F-RetainingWallPlans.dgn								
	USER NAME = Johns00944	DESIGNED	-	KMS	REVISED -				
		CHECKED	-	RGC	REVISED -				
	PLOT SCALE = 0.1667 ' / 10.	DRAWN	-	KMS	REVISED -				
)22	PLOT DATE = 10/26/2022	CHECKED	-	RGC	REVISED -				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

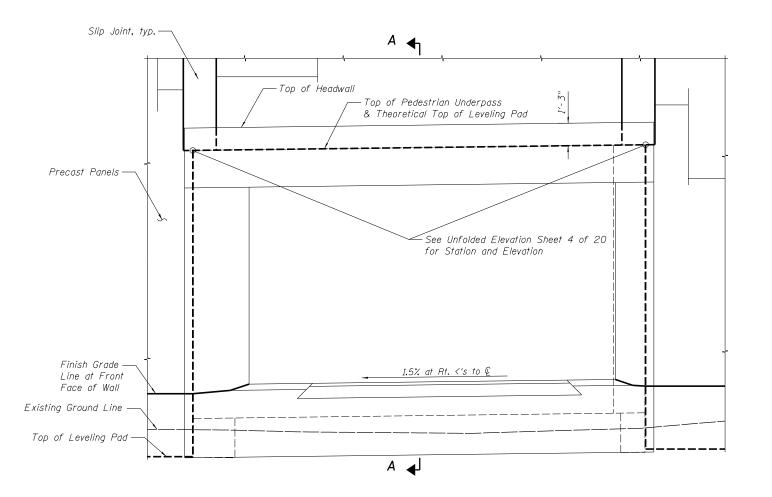
M.S.E. UNFOLDED ELEVATION - NORTH WALL	
IRON BRIDGE ROAD RETAINING WALL	
SHEET NO. 4 OF 20 SHEETS	

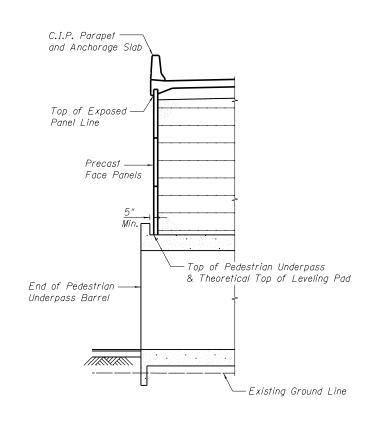
| F.A.S. | SECTION | COUNTY | TOTAL | SHEET |





West End Shown, East End Similar





SECTION A-A

END ELEVATION OF PEDESTRIAN UNDERPASS

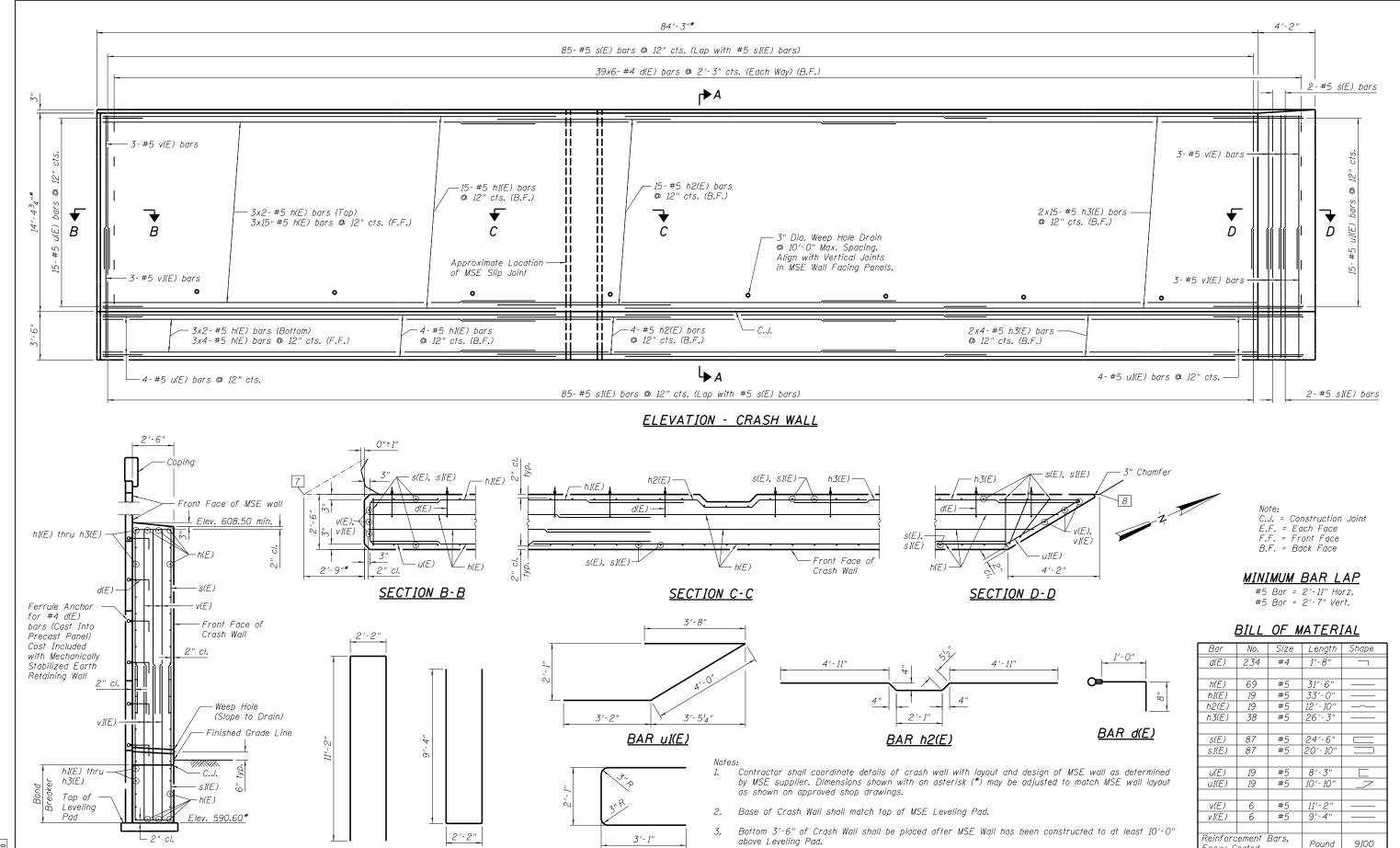
West End Shown, East End Similar

| I:\96jobs\9652002F\CADD\Struct\Sheet\9652002F-RetainingWallPlans.dgn | FILE NAME = | USER NAME = Jahns00944



. , ,0	SERVET THE CONTINUE WOLLD TO TO SECOND				
	USER NAME = Johns00944	DESIGNED -	-	KMS	REVISED -
		CHECKED -	-	RGC	REVISED -
	PLOT SCALE = 0.1667 '/ 10.	DRAWN -	-	KMS	REVISED -
	PLOT DATE = 10/26/2022	CHECKED -	-	RGC	REVISED -

- 1	DETA	LS	ΑT	PED	ES	TR	IAN	UNDE	RPASS
	RON	BR	IDGE	RC	ΑI) [RET	AINING	WALL
		5	HEET	NO.	6	OF	20	SHEETS	



I:\96jobs\96S2002F\CADD\Struct\Sheet
FILE NAME = **CAN** HANSON

SECTION A-A THRU CRASH WALL

96S2002F-RetainingWallPlans.dor

DESIGNED - KMS REVISED -USER NAME = Johns00944 CHECKED - RGC REVISED -PLOT SCALE = 0.1667 '/ 10. REVISED CHECKED - RGC REVISED PLOT DATE = 10/26/2022

BAR s(E)

BAR SI(E)

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BAR U(E)

CRASH WALL DETAILS IRON BRIDGE ROAD RETAINING WALL SHEET NO. 7 OF 20 SHEETS

Top of Crash Wall shall be placed after settlement period has elapsed.

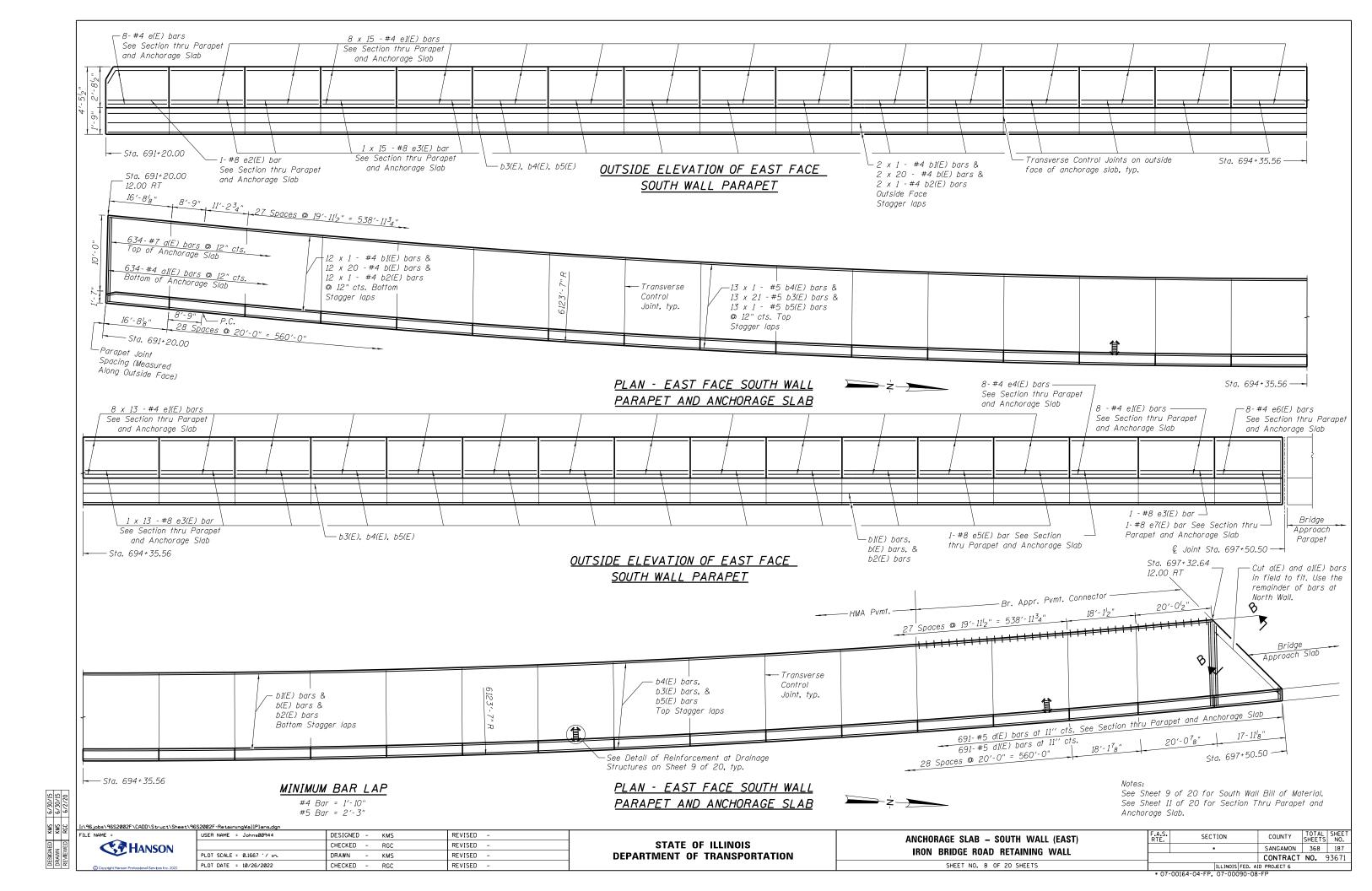
TOTAL SHEE SHEETS NO. SECTION COUNTY SANGAMON 368 186 CONTRACT NO. 93671 | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP, 07-00090-08-FP

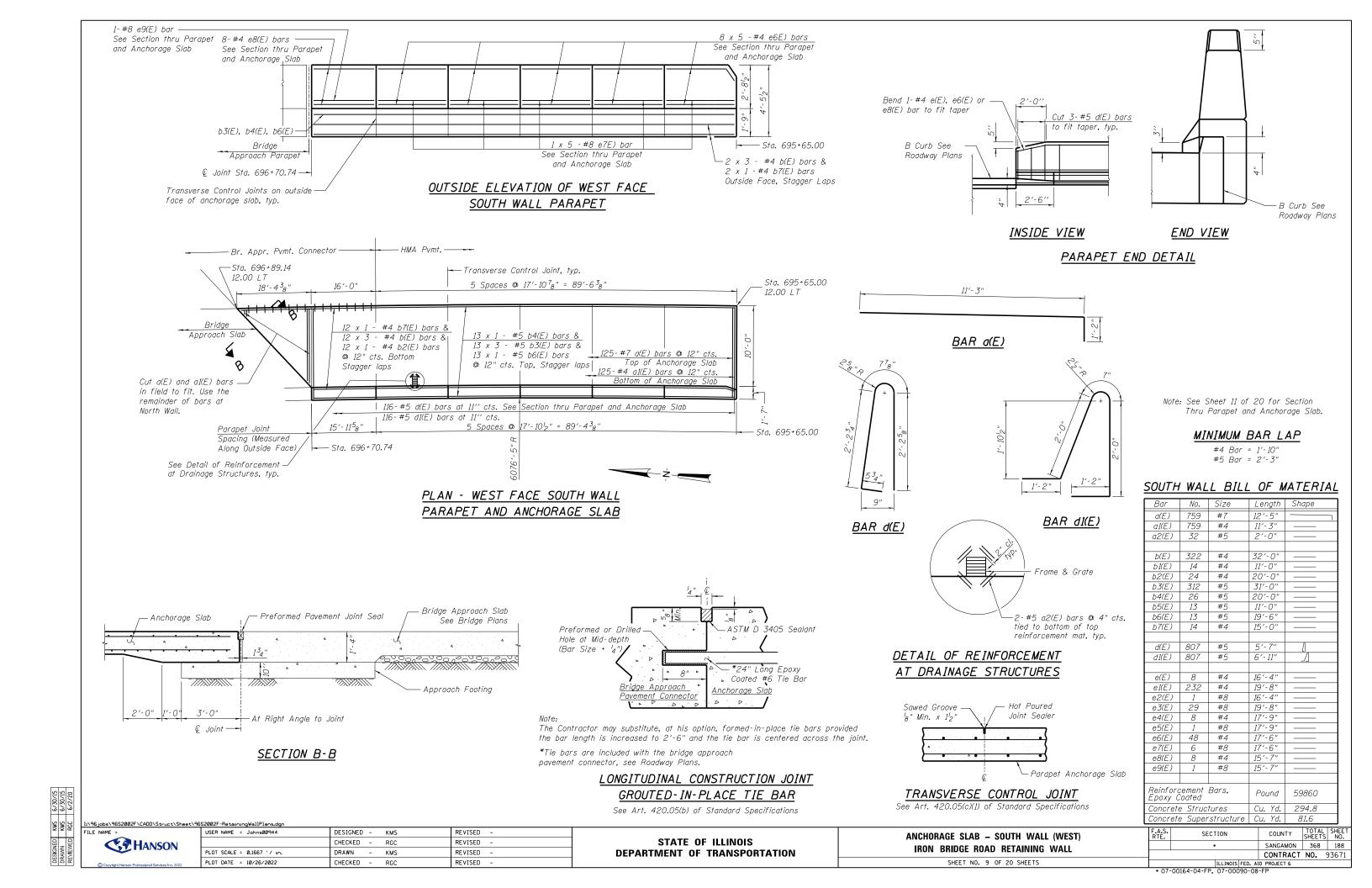
143.5

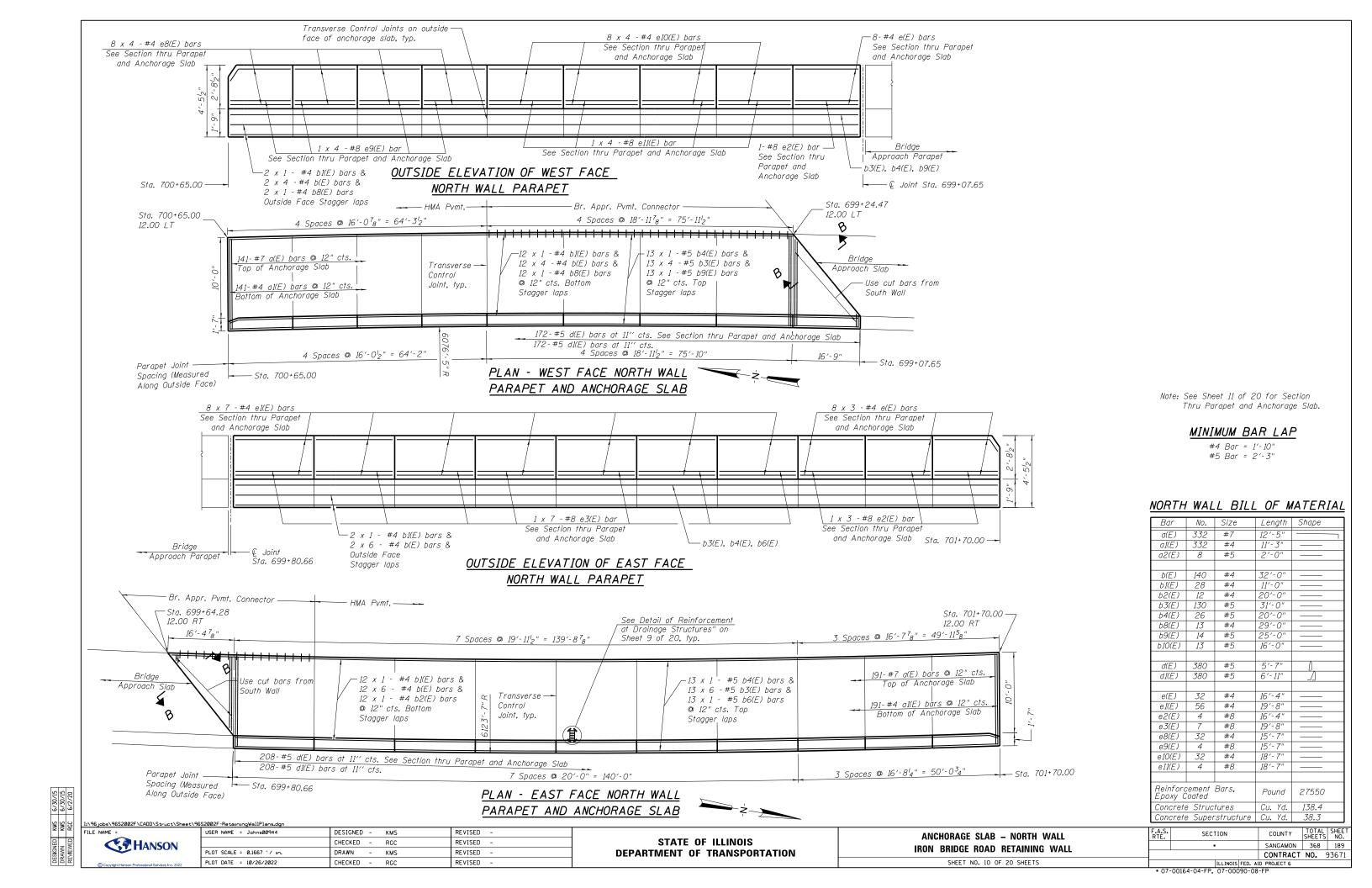
Cu. Yd.

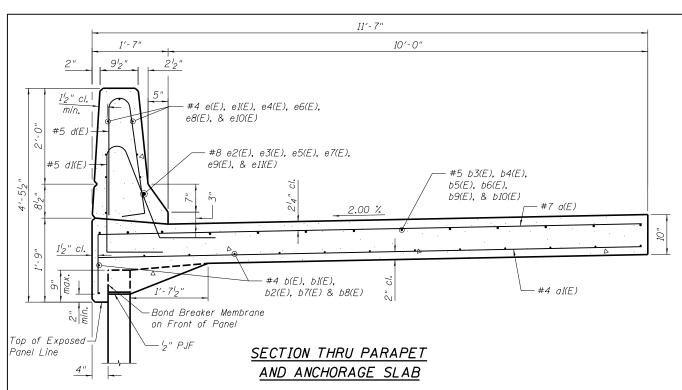
Epoxy Coated

Concrete Structures







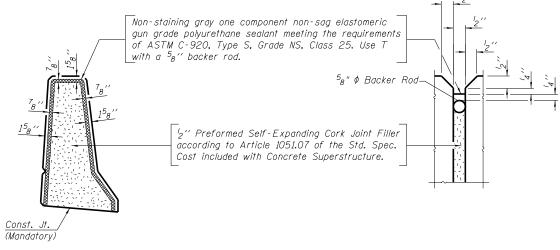


EAST FACE SOUTH WALL ANCHORAGE SLAB ELEVATIONS

Edge of Pavement Edge of Pavement Parapet Parapet Elevation Elevat				_	
Rd. Station Offset Elevation Elevation End 691+20.00 12.00 Rt. 602.99 602.79 Joint 691+36.68 12.00 Rt. 603.72 603.52 Joint 691+56.63 12.00 Rt. 604.64 604.44 Joint 691+76.56 12.00 Rt. 605.61 605.41 Joint 691+96.48 12.00 Rt. 606.61 606.41 Joint 692+16.40 12.00 Rt. 607.60 607.40 Joint 692+36.33 12.00 Rt. 608.60 608.40 Joint 692+76.17 12.00 Rt. 609.60 609.40 Joint 692+76.17 12.00 Rt. 610.59 610.39 Joint 692+96.09 12.00 Rt. 610.59 611.39 Joint 693+16.02 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+				_	
End 691+20.00 12.00 Rt. 602.99 602.79 Joint 691+36.68 12.00 Rt. 603.72 603.52 Joint 691+56.63 12.00 Rt. 604.64 604.44 Joint 691+76.56 12.00 Rt. 605.61 605.41 Joint 691+96.48 12.00 Rt. 606.61 606.41 Joint 692+16.40 12.00 Rt. 607.60 607.40 Joint 692+36.33 12.00 Rt. 608.60 608.40 Joint 692+56.25 12.00 Rt. 609.60 609.40 Joint 692+76.17 12.00 Rt. 610.59 610.39 Joint 692+96.09 12.00 Rt. 611.59 611.39 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+55.86 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+55.48 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 695+35.17 12.00 Rt. 621.83 621.63 Joint 695+55.09 12.00 Rt. 622.55 622.35 Joint 695+94.94 12.00 Rt. 623.22 623.02 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 695+94.94 12.00 Rt. 625.93 625.73 Joint 696+94.55 12.00 Rt. 625.93 625.73 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 696+94.55 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06		_			,
Joint 691+36.68 12.00 Rt. 603.72 603.52 Joint 691+56.63 12.00 Rt. 604.64 604.44 Joint 691+76.56 12.00 Rt. 605.61 605.41 Joint 691+96.48 12.00 Rt. 606.61 606.41 Joint 692+16.40 12.00 Rt. 607.60 607.40 Joint 692+36.33 12.00 Rt. 608.60 608.40 Joint 692+56.25 12.00 Rt. 609.60 609.40 Joint 692+76.17 12.00 Rt. 610.59 610.39 Joint 692+96.09 12.00 Rt. 613.58 613.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 615.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+55.48 12.00 Rt. 618.50 618.30 Joint 694+75.40 12.00 Rt. 622.25 620.05 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.93 625.73 Joint 696+34.78 12.00 Rt. 625.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 626.98 626.06				Elevation	
Joint 691+56.63 12.00 Rt. 604.64 604.44 Joint 691+76.56 12.00 Rt. 605.61 605.41 Joint 691+96.48 12.00 Rt. 606.61 606.41 Joint 692+16.40 12.00 Rt. 607.60 607.40 Joint 692+36.33 12.00 Rt. 608.60 608.40 Joint 692+56.25 12.00 Rt. 609.60 609.40 Joint 692+76.17 12.00 Rt. 610.59 610.39 Joint 693+16.02 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 615.57 615.37 Joint 693+15.63 12.00 Rt. 617.56 617.36 Joint 694+15.63 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 622.25 620.05 Joint 695+35.17 12.00 Rt. 623.22 623.02 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 625.93 625.73 Joint 696+34.78 12.00 Rt. 625.93 625.73 Joint 696+34.78 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 625.93 625.73 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 696+94.55 12.00 Rt. 625.26 620.05 Joint 696+74.63 12.00 Rt. 625.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 626.98 626.78	End	691+20.00	12.00 Rt.	602.99	602.79
Joint 691+76.56 12.00 Rt. 605.61 605.41 Joint 691+96.48 12.00 Rt. 606.61 606.41 Joint 692+16.40 12.00 Rt. 607.60 607.40 Joint 692+36.33 12.00 Rt. 609.60 609.40 Joint 692+56.25 12.00 Rt. 610.59 610.39 Joint 692+96.09 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 693+95.71 12.00 Rt. 617.56 617.36 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+75.40 12.00 Rt. 619.40 619.20 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+35.17 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+34.81 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.93 625.73 Joint 696+34.78 12.00 Rt. 626.69 626.49 Joint 696+41.86 12.00 Rt. 625.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 626.98 626.06	Joint	691+36.68	12.00 Rt.	603.72	603.52
Joint 691+96.48 12.00 Rt. 606.61 606.41 Joint 692+16.40 12.00 Rt. 607.60 607.40 Joint 692+36.33 12.00 Rt. 608.60 608.40 Joint 692+56.25 12.00 Rt. 609.60 609.40 Joint 692+76.17 12.00 Rt. 610.59 610.39 Joint 692+96.09 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+15.63 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 618.50 618.30 Joint 694+35.56 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+35.17 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 696+34.78 12.00 Rt. 624.44 624.24 Joint 696+34.78 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.69 626.49 Joint 696+74.63 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 626.98 626.78	Joint	691+56.63	12.00 Rt.	604.64	604.44
Joint 692+16.40 12.00 Rt. 607.60 607.40 Joint 692+36.33 12.00 Rt. 608.60 608.40 Joint 692+56.25 12.00 Rt. 609.60 609.40 Joint 692+76.17 12.00 Rt. 610.59 610.39 Joint 692+96.09 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+55.48 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 623.22 623.02 Joint 695+35.17 12.00 Rt. 623.22 623.02 Joint 695+40.94 12.00 Rt. 623.85 623.65 Joint 695+40.94 12.00 Rt. 623.85 623.65 Joint 695+40.94 12.00 Rt. 624.44 624.24 Joint 695+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.93 625.73 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.69 626.49 Joint 696+94.55 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	691+76.56	12.00 Rt.	605.61	605.41
Joint 692+36.33 12.00 Rt. 608.60 608.40 Joint 692+56.25 12.00 Rt. 609.60 609.40 Joint 692+76.17 12.00 Rt. 610.59 610.39 Joint 692+96.09 12.00 Rt. 611.59 611.39 Joint 693+16.02 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+75.40 12.00 Rt. 619.40 619.20 Joint 694+95.32 12.00 Rt. 620.25 620.05 Joint 695+35.17 12.00 Rt. 621.06 620.86 Joint 695+35.17 12.00 Rt. 621.06 620.86 Joint 695+35.17 12.00 Rt. 623.22 623.02 Joint 695+35.17 12.00 Rt. 623.22 623.02 Joint 695+36.00 12.00 Rt. 623.85 623.65 Joint 695+36.00 12.00 Rt. 624.44 624.24 Joint 695+34.94 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+34.78 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	691+96.48	12.00 Rt.	606.61	606.41
Joint 692+56.25 12.00 Rt. 609.60 609.40 Joint 692+76.17 12.00 Rt. 610.59 610.39 Joint 692+96.09 12.00 Rt. 611.59 611.39 Joint 693+16.02 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 618.50 618.30 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+35.56 12.00 Rt. 619.40 619.20 Joint 694+55.48 12.00 Rt. 620.25 620.05 Joint 694+75.40 12.00 Rt. 621.83 621.63 Joint 695+35.25 12.00 Rt. 621.83 621.63 Joint </td <td>Joint</td> <td>692+16.40</td> <td>12.00 Rt.</td> <td>607.60</td> <td>607.40</td>	Joint	692+16.40	12.00 Rt.	607.60	607.40
Joint 692+76.17 12.00 Rt. 610.59 610.39 Joint 692+96.09 12.00 Rt. 611.59 611.39 Joint 693+16.02 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint </td <td>Joint</td> <td>692+36.33</td> <td>12.00 Rt.</td> <td>608.60</td> <td>608.40</td>	Joint	692+36.33	12.00 Rt.	608.60	608.40
Joint 692+96.09 12.00 Rt. 611.59 611.39 Joint 693+16.02 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+75.40 12.00 Rt. 621.06 620.86 Joint 695+35.17 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint </td <td>Joint</td> <td>692+56.25</td> <td>12.00 Rt.</td> <td>609.60</td> <td>609.40</td>	Joint	692+56.25	12.00 Rt.	609.60	609.40
Joint 693+16.02 12.00 Rt. 612.58 612.38 Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint </td <td>Joint</td> <td>692+76.17</td> <td>12.00 Rt.</td> <td>610.59</td> <td>610.39</td>	Joint	692+76.17	12.00 Rt.	610.59	610.39
Joint 693+35.94 12.00 Rt. 613.58 613.38 Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.06 620.86 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.22 623.02 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 625.48 625.28 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+34.78 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.93 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	692+96.09	12.00 Rt.	611.59	611.39
Joint 693+55.86 12.00 Rt. 614.58 614.38 Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+35.17 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 625.48 625.28 Joint </td <td>Joint</td> <td>693+16.02</td> <td>12.00 Rt.</td> <td>612.58</td> <td>612.38</td>	Joint	693+16.02	12.00 Rt.	612.58	612.38
Joint 693+75.79 12.00 Rt. 615.57 615.37 Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint </td <td>Joint</td> <td>693+35.94</td> <td>12.00 Rt.</td> <td>613.58</td> <td>613.38</td>	Joint	693+35.94	12.00 Rt.	613.58	613.38
Joint 693+95.71 12.00 Rt. 616.57 616.37 Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 626.33 625.73 Joint </td <td>Joint</td> <td>693+55.86</td> <td>12.00 Rt.</td> <td>614.58</td> <td>614.38</td>	Joint	693+55.86	12.00 Rt.	614.58	614.38
Joint 694+15.63 12.00 Rt. 617.56 617.36 Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.71 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 626.33 626.13 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint </td <td>Joint</td> <td>693+75.79</td> <td>12.00 Rt.</td> <td>615.57</td> <td>615.37</td>	Joint	693+75.79	12.00 Rt.	615.57	615.37
Joint 694+35.56 12.00 Rt. 618.50 618.30 Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint </td <td>Joint</td> <td>693+95.71</td> <td>12.00 Rt.</td> <td>616.57</td> <td>616.37</td>	Joint	693+95.71	12.00 Rt.	616.57	616.37
Joint 694+55.48 12.00 Rt. 619.40 619.20 Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. App	Joint	694+15.63	12.00 Rt.	617.56	617.36
Joint 694+75.40 12.00 Rt. 620.25 620.05 Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	694+35.56	12.00 Rt.	618.50	618.30
Joint 694+95.32 12.00 Rt. 621.06 620.86 Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	694+55.48	12.00 Rt.	619.40	619.20
Joint 695+15.25 12.00 Rt. 621.83 621.63 Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	694+75.40	12.00 Rt.	620.25	620.05
Joint 695+35.17 12.00 Rt. 622.55 622.35 Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	694+95.32	12.00 Rt.	621.06	620.86
Joint 695+55.09 12.00 Rt. 623.22 623.02 Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	695+15.25	12.00 Rt.	621.83	621.63
Joint 695+75.02 12.00 Rt. 623.85 623.65 Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	695+35.17	12.00 Rt.	622.55	622.35
Joint 695+94.94 12.00 Rt. 624.44 624.24 Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	695+55.09	12.00 Rt.	623.22	623.02
Joint 696+14.86 12.00 Rt. 624.98 624.78 Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	695+75.02	12.00 Rt.	623.85	623.65
Joint 696+34.78 12.00 Rt. 625.48 625.28 Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	695+94.94	12.00 Rt.	624.44	624.24
Joint 696+54.71 12.00 Rt. 625.93 625.73 Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	696+14.86	12.00 Rt.	624.98	624.78
Joint 696+74.63 12.00 Rt. 626.33 626.13 Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	696+34.78	12.00 Rt.	625.48	625.28
Joint 696+94.55 12.00 Rt. 626.69 626.49 Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	696+54.71	12.00 Rt.	625.93	625.73
Joint 697+12.64 12.00 Rt. 626.98 626.78 Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	696+74.63	12.00 Rt.	626.33	626.13
Br. Appr. 697+32.64 12.00 Rt. 627.26 627.06	Joint	696+94.55	12.00 Rt.	626.69	626.49
2, (5)	Joint	697+12.64	12.00 Rt.	626.98	626.78
End Parapet 697+50.50 627.26	Br. Appr.	697+32.64	12.00 Rt.	627.26	627.06
	End Parapet	697+50.50			627.26

WEST FACE SOUTH WALL ANCHORAGE SLAB ELEVATIONS

		Edge of	Edge of	Base of
	Iron Bridge	Pavement	Pavement	Parapet
	Rd. Station	Offset	Elevation	Elevation
End	695+65.00	12.00 Lt.	623.54	623.34
Joint	695+82.94	12.00 Lt.	624.09	623.89
Joint	696+00.88	12.00 Lt.	624.61	624.41
Joint	696+18.82	12.00 Lt.	625.08	624.88
Joint	696+36.77	12.00 Lt.	625.52	625.32
Joint	696+54.71	12.00 Lt.	625.93	625.73
Joint,	696+70 74	12.00 Lt.	626.26	626.06
End Parapet	030+70.74	12.00 Lt.	020.20	020.00
Br. Appr.	696+89.14	12.00 Lt.	626.60	



PARAPET JOINT DETAILS

WEST FACE NORTH WALL ANCHORAGE SLAB ELEVATIONS

		Edge of	Edge of	Base of
	Iron Bridge	Pavement	Pavement	Parapet
	Rd. Station	Offset	Elevation	Elevation
End Parapet	699+07.65			627.54
Br. Appr.	699+24.47	12.00 Lt.	627.60	627.40
Joint	699+43.50	12.00 Lt.	627.41	627.21
Joint	699+62.53	12.00 Lt.	627.18	626.98
Joint	699+81.56	12.00 Lt.	626.90	626.70
Joint	700+00.59	12.00 Lt.	626.59	626.39
Joint	700+16.69	12.00 Lt.	626.29	626.09
Joint	700+32.79	12.00 Lt.	625.96	625.76
Joint	700+48.90	12.00 Lt.	625.60	625.40
End	700+65.00	12.00 Lt.	625.21	625.01

EAST FACE NORTH WALL ANCHORAGE SLAB ELEVATIONS

		Edge of	Edge of	Base of
	Iron Bridge	Pavement	Pavement	Parapet
	Rd. Station	Offset	Elevation	Elevation
Br. Appr.	699+64.28	12.00 Rt.	627.15	
Joint,	699+80.66	12.00 Rt.	626.92	626.72
End Parapet	033100.00	12.00 14.	020.32	020.72
Joint	700+00.59	12.00 Rt.	626.59	626.39
Joint	700+20.51	12.00 Rt.	626.21	626.01
Joint	700+40.43	12.00 Rt.	625.79	625.59
Joint	700+60.36	12.00 Rt.	625.33	625.13
Joint	700+80.28	12.00 Rt.	624.82	624.62
Joint	701+00.20	12.00 Rt.	624.27	624.07
Joint	701+20.13	12.00 Rt.	623.67	623.47
Joint	701+36.75	12.00 Rt.	623.13	622.93
Joint	701+53.38	12.00 Rt.	622.57	622.37
End	701+70.00	12.00 Rt.	621.97	621.77
	·	· ·	· ·	·

- 1. Stations and offsets are to the inside edge of anchorage slab.
- Elevations are at the top of anchorage slab along joints or transition points as indicated.
 Transverse control joints are at right angles to the parapet.

I:\96jobs\96S2002F\CADD\Struct\Sheet\96S2002F-RetainingWallPlans.dgn



USER NAME = Johns00944	DESIGNED	-	KMS	REVISED	-
	CHECKED	-	RGC	REVISED	-
PLOT SCALE = 0.1667 ' / 10.	DRAWN	-	KMS	REVISED	-
PLOT DATE = 10/26/2022	CHECKED	-	RGC	REVISED	-

PARAPET & ANCHORAGE SLAB DETAILS	F.A.S. RTE.	SECTION
IRON BRIDGE ROAD RETAINING WALL		•
IIION DIIIDGE IIOAD IIETAINING WALL		
SHEET NO. 11 OF 20 SHEETS		THE THOTO

COUNTY

SANGAMON 368 190

CONTRACT NO. 93671

GROUND IMPROVEMENT PERFORMANCE REQUIREMENTS

Ground improvement performance requirements shall apply to the Iron Bridge Road pavement, including shoulders, between Sta. 691+20 and Sta. 702+00, excluding the area between the bridge abutments.

Within the limits shown on the plan view, allowable bearing pressure (F.S.=2.5) shall be equal to or greater than the equivalent uniform service bearing pressure shown. Design bearing pressure shall be interpolated between the values shown.

Aggregate column installation shall be mandatory within the allowable bearing pressure limits shown on the plan view. Columns may be installed beyond the mandatory limits as required to satisfy the other ground improvement performance requirements and the project schedule.

Minimum 12 inch thick aggregate drainage layer shall be required beneath the footprint of the Interurban Trail Underpass. Drainage layer and/or working platform in other areas shall be per the ACGI subcontractor's design.

Verification program shall include the settlement platforms and monitoring points shown in the plan view. Cost of these shall be included with AGGREGATE COLUMN GROUND IMPROVEMENT.

Minimum factor of safety for global slope stability shall be 1.5.

Settlement measured at the theoretical top of leveling pad shall not exceed 4.0 inches.

Settlement measured on the roadway after pavement construction shall not exceed 1.0 inch.

Settlement measured at the base of the bridge abutment after final driving of the piles shall not exceed 0.4 inches.

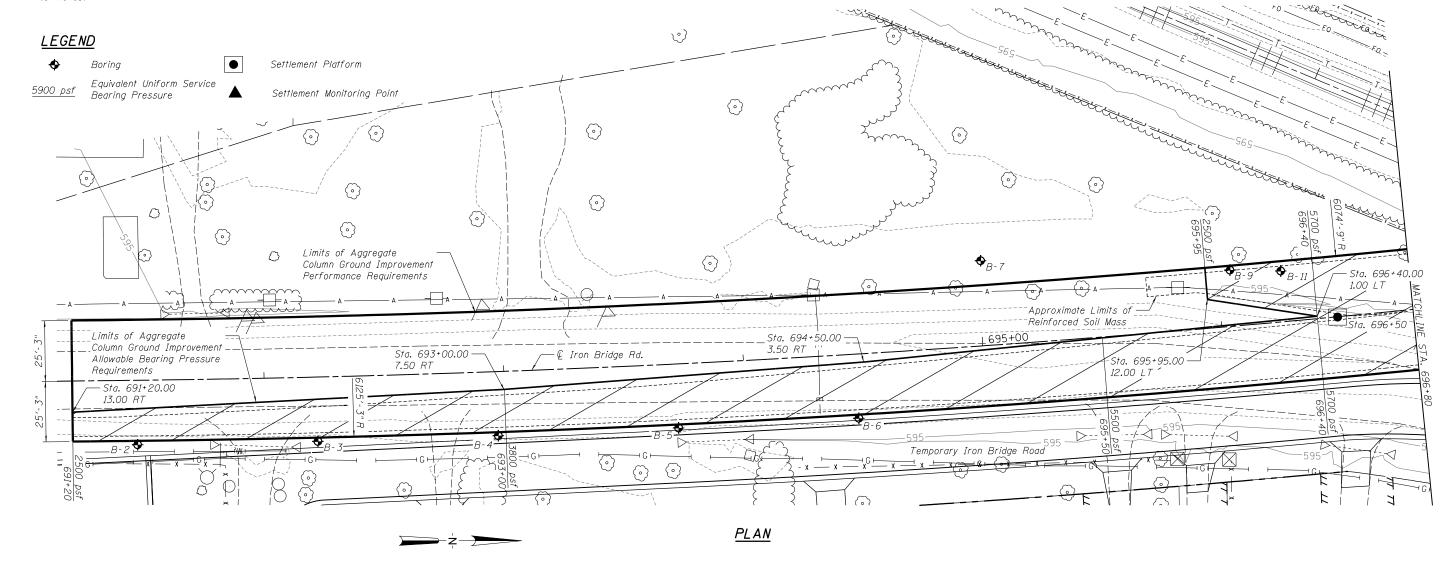
Differential settlement along the length of the M.S.E. wall shall not exceed 1.0 percent.

Differential settlement at right angles to the roadway centerline shall not exceed 0.5 percent after placement of the pavement.

Contractor's verification program shall include monitoring points or other instrumentation to demonstrate compliance with the performance requirements shown on these plans and the construction sequencing requirements shown on sheets 28 and 30 of 34 of the bridge plans.

The assumed structure life for settlement computations shall be 75 years.

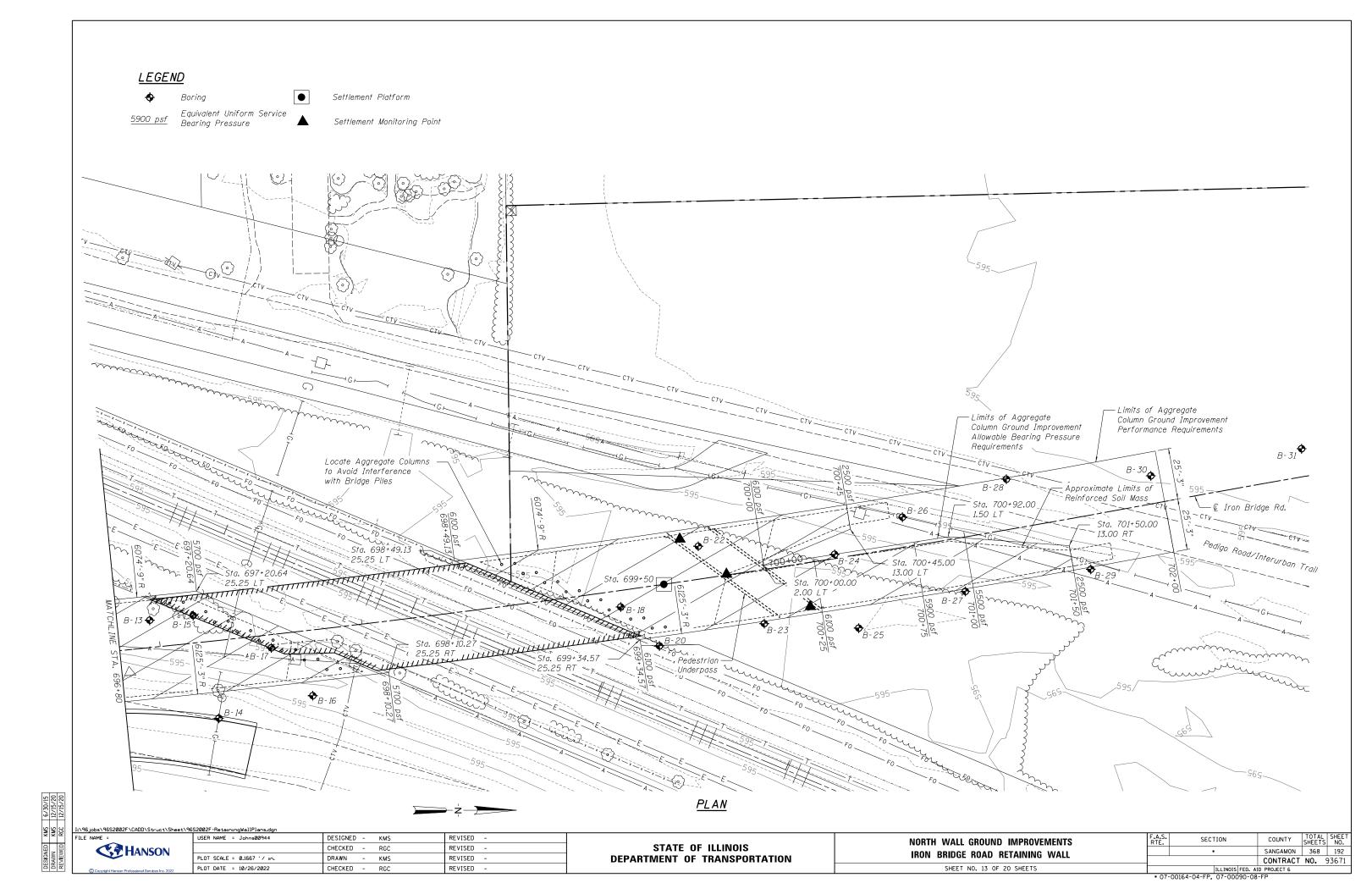
The Shop Drawings and construction procedures submittal shall indicate the sequence of construction within the limits of Aggregate Column Ground Improvement. The aggregate column installation shall be coordinated with utility removals, proposed utility installation, underpass construction, and bridge pile driving.

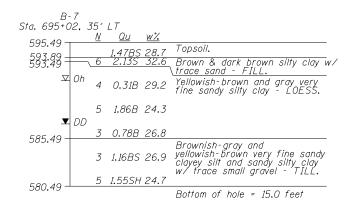


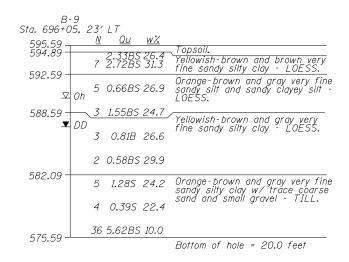
USER NAME = Johns00944	DESIGNED - KMS	REVISED -
	CHECKED - RGC	REVISED -
PLOT SCALE = 0.1667 ' / 10.	DRAWN - KMS	REVISED -
PLOT DATE = 10/26/2022	CHECKED - RGC	REVISED -

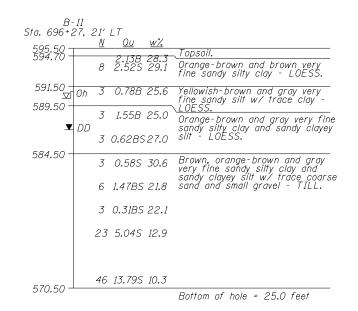
STATE OI	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

SOUTH WALL GROUND IMPROVEMENTS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
IRON BRIDGE ROAD RETAINING WALL		•	SANGAMON	368
INON DINDUL HOAD HETAINING WALL			CONTRACT	NO.
SHEET NO. 12 OF 20 SHEETS		ILLINOIS FED. A	D PROJECT 6	
	• 07-	-00164-04-FP, 07-00090-08	-FP	









B- Sta. 696+9		131	1 T		
	, ,	№	<u> Qu</u>	<u>w%</u>	
595.42 - 592.42 -		5	1.36BSH	30.6	Topsoil & dark brown silty clay w/trace sand.
☑ 0	Oh DD	4	0.5P	27.3	Brownish-gray very fine sandy silty clay - LOESS.
		4	2.13B	23.2	
E0E 10 -		3		27.4	
585.42		4	1.36B	25.0	Orange. brown and gray very fine to fine sandy silty clay and sandy clayey silt w/ trace coarse sand and small gravel - TILL.
		3	0.58BSH	30.0	ana sinan graver - FILL,
		8	0.19BSH	20.7	
		30	3.49SH	11.7	
570 . 42 -		55	3.49B	12.4	
3.3.72				Во	ttom of hole = 25.0 feet

Standard Penetration Test N (blows/ft)

Qu Unconfined Strength (tsf)

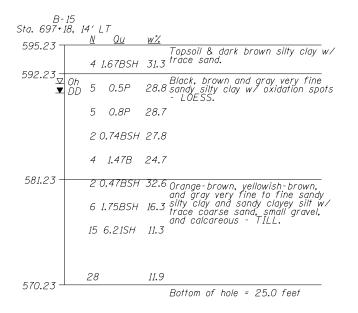
w% Natural Moisture Content (%)

₩ater Surface Elevation Encountered in Boring

\96jobs\96S2002F\CADD\Struct\Sheet\96S2002F-RetainingWallPlans.dgn



N965ZWWZF-RetainingWallFlans.dgn							
USER NAME = Johns00944 DESIGNED - KMS REVISED -							
CHECKED - RGC REVISED -							
PLOT SCALE = 0.1667 '/ 10. DRAWN - KMS REVISED -							
PLOT DATE = 10/26/2022							



B- Sta. 699+	22 70. 16′ LT	
596.06 -	<u>N Qu w%</u>	
593.06 -	7 0.5P 29.4	Topsoil - black very fine sandy clayey silt.
593,06	6 0.78B 30.6	Yellowish-brown, orange-brown, and gray very fine sandy silt to sandy clayey silt w/ oxidation spots - LOESS.
▼	DD 4 0.50B 30.2	spots - LOESS.
	4 1.12B 23.8	
	4 0.93B 26.3	
583.06 -	5 1.16B 26.0	Orange-brown and gray very fine to fine sandy clayey silt to sandy silty clay w/ trace coarse sand
	3 0.62B 20.8	and small to large gravel - TILL.
	55 2.33S 14.1	
	50/5" 4.3P 10.9	
568.06 -	78 2.625 18.4	Yellowish-brown fine sandy silt to silty fine sand - calcareous - TILL.
564.06 -	40 4.36\$ 15.7	Brown and gray weathered SHALE.
558 . 06 -		0.000
	50/5" 1.40S 14.6	Gray SHALE.
556.06 -	17.00	Bottom of hole = 40.0 feet

B Sta. 700+.		LT		
595.74 -	<u>N</u>	<u>Qu</u>	<u>w%</u>	
594.94 - 594.54 -		1.5B	31.0	<u>Gravel topsoil.</u> Dark brown very fine sandy silty
594.54 ▽	Oh 6	1.5B 1.31B	30.7	∖clav w/ trace aravel - FICL
				Yellow-brown & brown very fine sandy silty clay w/ very fine sandy silt_seams and oxidized spots -
	7	0.78B	27.3	sanay siiiy ciay w/ very rine sanay silt seams and oxidized snots -
589.74				. LOESS.
	ρρ 6	1.85B	26.3	Orange-brown & gray very fine sandy silt w/ some clay - LOESS.
587.24 ▼	00			
	4	0.44B	29.0	Dark brown & brownish-gray very fine sandy clayey silt w/ oxidized
				spots - ĹOEŚŚ.
	4	1.24BS	26.2	
582.24				0 6:
	5	1.85BS	23.5	Orange brown & gray very fine sandy silty clay w/ trace small gravel - TILL.
				gravel - TILL.
	WOF	0.39B	24.2	
577.24		0.470		Orange brown & grav very fine
575,74	63	2.13B	11.5	Orange brown & gray very fine sandy clayey silt w/ trace coarse sand, small gravel, & calcareous
373.77			\	sand, smálí gravel, & calcareous
				Brown & aray very fine sandy
	60	15,825	10.3	Brown & gray very fine sandy clayey silt w/ trace coarse sand, small gravel, & calcareous - TILL.
570.74	69	15.825	10.5	smaii gravei, & calcareous - IILL.
2.3.7				

B- Sta. 700+		1 T		
	<u>N</u>	_	<u>w%</u>	
594.85 - 594.05 -				Oil & chip.
∇	Oh 9	2.4BSP	30.7	Dark brown very fine sandy silty clay - LOESS.
591 . 35 -	4	0.97B	32.5	Yellow brown & gray very fine sandy clayey silt and orange brown & gray very fine sandy silt w/ oxidized spots - LOESS.
_	DD DD	0.78B	34.0	silt w/ oxidized spots - LOESS.
	3	0.97B	23.1	
584.85 -	3	1.09B	25.9	Yellow brown, brownish gray & gray very fine sandy clayey silt to very fine sandy silty clay w/trace small gravel - TILL.
	3	1.31BS	24.7	
5 <i>7</i> 6 35	3	0.2P	24.0	
576.35 <u>-</u> 575.95 ⁻	50/1	" 4.5+P		Gray limestone - COBBLE. Gray very fine sandy silt w/ som clay, trace coarse sand & small gravel, calcareous - TILL.
560.95	60/	5"	7.0	
569.85				Bottom of hole = 25.0 feet

N Standard Penetration Test N (blows/ft)

Qu Unconfined Strength (tsf)

w% Natural Moisture Content (%)

Water Surface Elevation Encountered in Boring DD DD = during drilling DD Oh = at completion

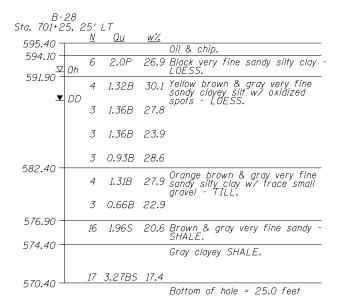
96jobs\96S2002F\CADD\Struct\Sheet\96S2002F-RetainingWallPlans.dgn



76	7652002F-RetainingWallFlans.dgn									
	USER NAME = Johns00944	DESIGNED	-	KMS	REVISED -					
		CHECKED	-	RGC	REVISED -					
	PLOT SCALE = 0.1667 '/ 10.	DRAWN	-	KMS	REVISED -					
	PLOT DATE = 10/26/2022	CHECKED	-	RGC	REVISED -					

COUNTY TOTAL SHEET NO.
SANGAMON 368 194

CONTRACT NO. 93671



В-					
Sta. 701+9	96, 1	14 / L N	_	°/	
594.87 -		/ <u>V</u>	<u>Qu</u>	<u>w%</u>	Topsoil.
593.67 − ▽	Oh	4	1.75B	32.1	Orange-brown and gray very fine sandy silty clay - LOESS.
588.87 ▼	DD	4	0.74B	31.9	
333.37		5	1.16B	28.9	Yellowish-brown and gray very fine sandy silt - LOESS.
586.87 -		4	1.16B	27.2	Brownish-gray very fine sandy silty clay w/ trace small gravel - LOESS.
504.07		5	1.36B	27.5	
581 . 87 -		5	0.97B	26.3	Yellowish-brown and gray very fine sandy silty clay - TILL.
570.07		5	1.96B	23.4	
576.87 -		46	3.225	18.1	Yellowish-brown and gray silty fine sand - weathered SANDSTONE.
569.87		70	4.36SP	18.6	
203.01					Bottom of hole = 25.0 feet

B- Sta. 702+		14'	ΙΤ		
	, 1, 1	N	Qu	w%	
594.72 -					Topsoil.
593.42 - 592.22 -	01	7	2.06B	31.5	Dark brown & brown very fine sandy silfy clay - LOESS.
× 588.72 ×	Oh DD	4	0.85B	30.0	Orange brown & aray very fine
300,72		4	2.13B	25.2	Brown & gray very fine sandy clayey silt w/ oxidized spots - LOESS.
507.70		3	1.16B	25.8	20255.
583.72 -		3	1.16B	28.4	Brown & gray very fine sandy silty clay - TILL.
570.70		4	1 . 09S	25.1	
578.72 -		4	0.97B	24.4	Orange brown & gray very fine sandy clayey silt w/ gray silty clayey fine sand - TILL.
576.22 -		60	2.84SP	17.7	Brown & gray silty clayey fine sand - weathered SANDSTONE.
571.22 -		70	4.50	10 5	Brown & gray clayey SHALE.
569.72 -		30	4.5P	<i>1</i> 6.5	
					Bottom of hole = 25.0 feet

N Standard Penetration Test N (blows/ft)

Qu Unconfined Strength (tsf)

w% Natural Moisture Content (%)

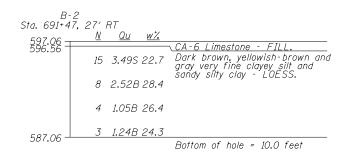
₩ater Surface Elevation Encountered in Boring
DD DD = during drilling

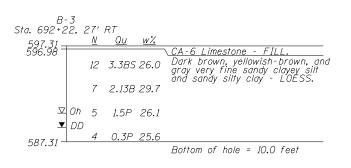
 ∇ Oh Oh = at completion

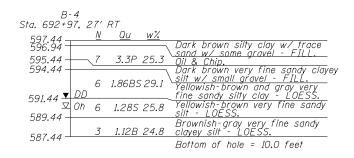
96jobs\96S2002F\CADD\Struct\Sheet\96S2002F-RetainingWallPlans.dgn



/46:	P552002F-RetainingWallFlans.dgn								
	USER NAME = Johns00944	DESIGNED	-	KMS	REVISED -				
		CHECKED	-	RGC	REVISED -				
	PLOT SCALE = 0.1667 '/ 10.	DRAWN	-	KMS	REVISED -				
	PLOT DATE = 10/26/2022	CHECKED	-	RGC	REVISED -				







B- Sta. 693+7	_	7′	RT		
587.611		N	<u>Qu</u>	<u>w%</u>	
596.81 ⁻ 7		12	3.5P	14.0 27.2	CA-6 Limestone - FILL. Dark brown silty clay w/ trace Sand & some gravel - FILL. Oil & chip.
501.01 	Oh	8	2.33B	29.3	Dark brown, yellowish brown, and gray very fine sandy silty clay and sandy clayey silt - LOESS.
591.61 ⁻ ▼	DD	5	1.36BS	24.5	Yellowish-brown and gray very fine sandy silt - LOESS.
588.61 -		3	0.89B	26.0	Brown and gray very fine sandy silty_clay w/ trace small gravel
		2	1.40B	23.8	- TILL.
F00.61		3	1.16B	24.6	
582.61					Bottom of hole = 15.0 feet

N Standard Penetration Test N (blows/ft)

Qu Unconfined Strength (tsf)

w% Natural Moisture Content (%)

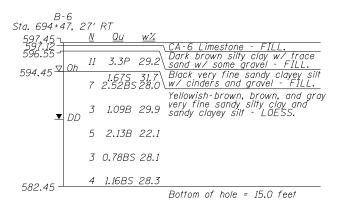
Water Surface Elevation Encountered in Boring

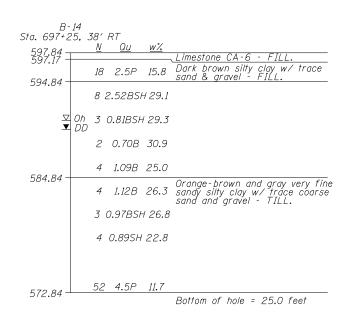
▼ DD DD = during drilling ∇ Oh Oh = at completion

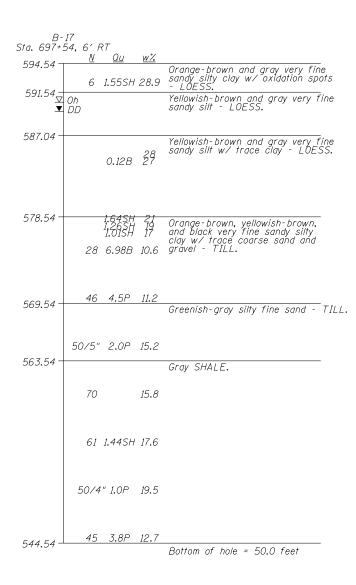
v96jobs\96S2002F\CADD\Struct\Sheet\96S2002F-RetainingWallPlans.dgn



סרו ז	17052002F The toining waitrians.ogn								
	USER NAME = Johns00944	DESIGNED	-	KMS	REVISED	=			
		CHECKED	-	RGC	REVISED	-			
	PLOT SCALE = 0.1667 '/ 10.	DRAWN	-	KMS	REVISED	-			
	PLOT DATE = 10/26/2022	CHECKED	-	RGC	REVISED	-			







B- Sta. 697+7		RT		
595.47 ¬	_, <u>N</u>	<u>Qu</u>	<u>w%</u>	
592.47	5	1.55SH	25.8	Dark brown silty clay w/ trace sand & gravel - FILL.
589.47 →	gg 6	1.16BSH	1 26.9	Yellowish-brown and gray very fir sandy silty clay w/ oxidation spot - LOESS.
	4	1.40B	25.8	Orange-brown and gray very fine sandy silt w/ trace clay - LOESS
587.47	2	0.58SH	32.8	Orange-brown and gray very fine sandy silty clay - LOESS.
	2	1.12BSF	127.2	
579,47	3	1.86BSF	123.9	
313.71	4	1.24B	22.7	Yellow-brown, orange-brown, and aray sandy silty clay w/ trace
	19	7.76B	13.2	gray sandy silty clay w/ trace coarse sand and small gravel -TILL.
	57	4.5P	8.2	
570 . 47 [_]		7.31	0.2	Bottom of hole = 25.0 feet

Standard Penetration Test N (blows/ft)

Qu Unconfined Strength (tsf)

w% Natural Moisture Content (%)

Water Surface Elevation Encountered in Boring ▼ DD DD = during drilling

 ∇ Oh Oh = at completion

96jobs\96S2002F\CADD\Struct\Sheet\96S2002F-RetainingWallPlans.dgr

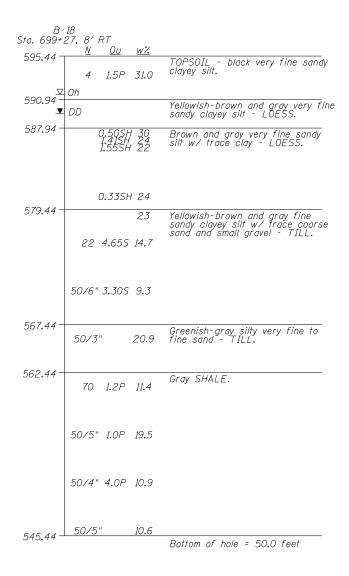


.46	9652002F-RetainingWallPlans.dgn									
	USER NAME = Johns00944	DESIGNED	-	KMS	REVISED	-				
		CHECKED	-	RGC	REVISED	-				
	PLOT SCALE = 0.1667 ' / 10.	DRAWN	-	KMS	REVISED	-				
	PLOT DATE = 10/26/2022	CHECKED	-	RGC	REVISED	-				

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SUBSURFACE DATA PROFILE IRON BRIDGE ROAD RETAINING WALL SHEET NO. 18 OF 20 SHEETS

SECTION COUNTY SANGAMON 368 197 CONTRACT NO. 93671 | ILLINOIS | FED. AID PROJECT 6 • 07-00164-04-FP, 07-00090-08-FP



B- Sta. 699+4	20 13 :	30′	RT		
	J, .	№	<u>Qu</u>	<u>w%</u>	
595.83 -		5	0.8P	28.1	TOPSOIL - black very fine sand clayey silt.
592.83 _▽	Oh	7	1.55B	30.2	Orange-brown and gray very fine sandy silty clay - LOESS.
		5	0.93B	29.0	
<u>*</u>	DD	4	0.97B	22.5	
582 . 83 -		3	0.58B	25.7	
302.03		2	1.36S	26.2	Orange-brown and gray very fine sandy silty clay and sandy clayey silt w/ trace coarse sand and small gravel - TILL.
		1	0.58B	18.7	small gravel - TILL.
		21	2.135	12.1	
	5	0/5	Ţ#	13.0	
567.83 -	5	0/5	· n	14.1	Greenish-brown very fine silty sand - TILL.
562.83 -	50	 D/5'	' 1.51S	18.8	Gray clayey SHALE.
556 . 90 –	50	<u> </u>	' 6.21S	14.4	
					Bottom of hole = 40.0 feet

B- Sta. 699+9		6′.	RT		
507.17	-, -	N	<u>Qu</u>	<u>w%</u>	
597.13 -		8	4.15B	22.1	TOPSOIL - dark brown very fine sandy clayey silt.
594.13 − ▽	Oh	6	1.945	29,6	Orange brown and gray very fine sandy silty clay and sandy clayey silt w/ oxidation spots - LOESS.
▼	DD	4	0.89B	36.1	
500.17		5	2.06B	24.0	
586.13 -		4	0.78B	27.4	Orange, brown, and gray very fine sandy silty clay w/ trace coarse sand and small gravel - TILL.
		4	1 . 16S	25,2	Sana ana Sinan graver - TILL.
		6	1.47B	21.5	
		7	0.58B	22.6	
F 70 17	5	0/4	!"	6.5	
572.13 -					Bottom of hole = 25.0 feet

B- Sta. 700+4		36′ I	? <i>T</i>		
	_, _	№	`` <u>Qu</u>	<u>w%</u>	
596.64 -		7	4.4P	20,4	
593.64 −	8 Oh		1.75B	27.6	Orange-brown, yellowish-brown and gray very fine sandy silty clay and sandy clayer silt w/ oxidation spots - LOESS.
▼	DD	5	0.97B	26.6	spots - LOESS.
		4	1.7P	24,4	
507.04		6	0.97B	25.4	
583,64 -		5	1.63S	24.5	Orange-brown and gray very fine to fine sandy silty clay w/ trace coarse sand and small gravel - TILL.
		8	1.40B	18.7	
		16	3.925	11.1	
571 . 64 -	50	0/5"	4.5P	9.6	
					Bottom of hole = 25.0 feet

N Standard Penetration Test N (blows/ft)

Qu Unconfined Strength (tsf)

w% Natural Moisture Content (%)

₩ater Surface Elevation Encountered in Boring
DD DD = during drilling

 ∇ Oh Oh = at completion

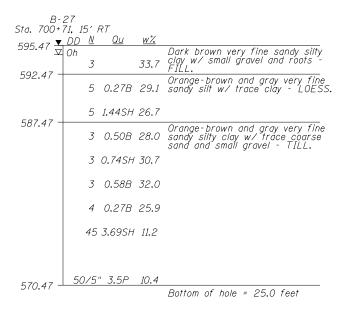
96jobs\96S2002F\CADD\Struct\Sheet\96S2002F-RetainingWallPlans.dgn



7652002F-RetainingwallFlans.dgn							
	USER NAME = Johns00944	DESIGNED	-	KMS	REVISED -		
		CHECKED	-	RGC	REVISED -		
	PLOT SCALE = 0.1667 '/ 10.	DRAWN	-	KMS	REVISED -		
	PLOT DATE = 10/26/2022	CHECKED	-	RGC	REVISED -		

COUNTY TOTAL SHEETS NO.
SANGAMON 368 198

CONTRACT NO. 93671



B-29 Sta. 701+58, 26′ RT Oil & chip & 2" brown CA-6 - FILL.

9 2.06B 27.4 Dark brown very fine sandy silty clay - LOESS.

Orange & brown very fine sandy

• DD 3 1.09B 31.4 silty clay - LOESS. 4 1.05B 31.0 4 1.47B 24.4 584.16 Orange & brown very fine sandy silty clay w/ trace small gravel & oxidized spots - TILL. 4 1.75B 28.1 6 2.33B 19.7 576.*1*6 21 4.58S 12.9 Brown & yellow brown very fine sandy clayey silt & very fine sandy silt - TILL.

Yellow brown very fine to fine sandy silt - TILL. 573**.**16 41 4.5P 16.2 569.16 Bottom of hole = 25.0 feet

<u>LEGEND</u>

N Standard Penetration Test N (blows/ft)

Qu Unconfined Strength (tsf)

w% Natural Moisture Content (%)

Water Surface Elevation Encountered in Boring

→ DD DD = during drilling

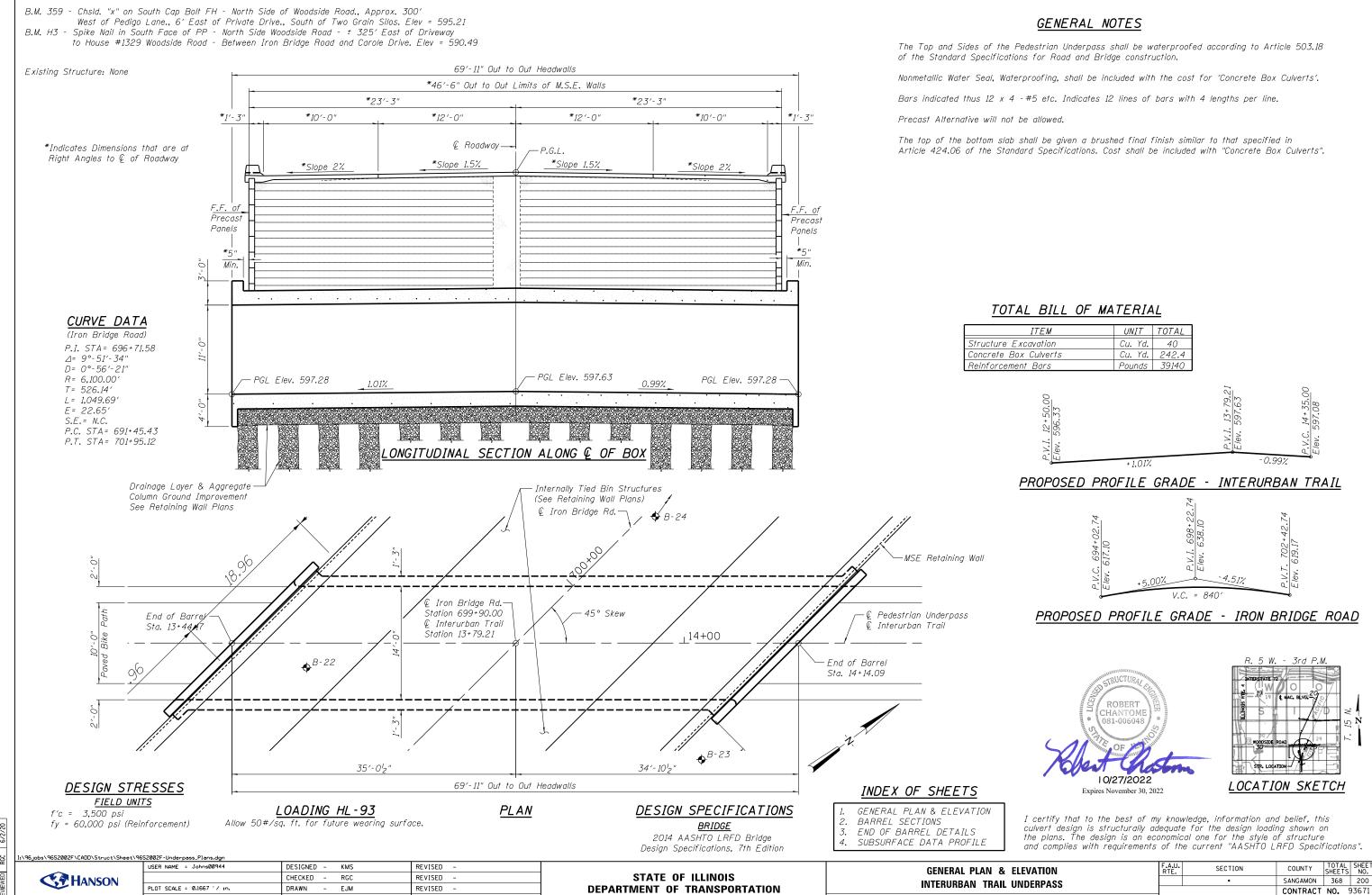
 ∇ Oh Oh = at completion

\96jobs\96S2002F\CADD\Struct\Sheet\96S2002F-RetainingWallPlans.dgn



USER NAME = Johns00944	DESIGNED - KMS	REVISED -
	CHECKED - RGC	REVISED -
PLOT SCALE = 0.1667 ' / 10.	DRAWN - KMS	REVISED -
PLOT DATE = 10/26/2022	CHECKED - RGC	REVISED -

STATE OF ILLINOIS					
DEPARTMENT OF TRANSPORTATION					



SHEET NO. 1 OF 4 SHEETS

 DESIGNED
 KMS
 10/27/15

 DRAWN
 EJM
 10/27/15

 REVIEWED
 RGC
 6/2/20

PLOT DATE = 10/26/2022

CHECKED - RGC

REVISED