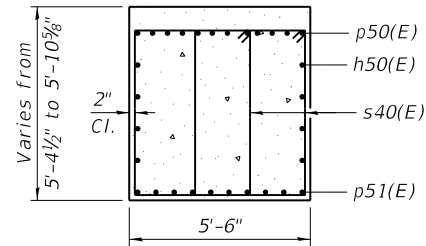
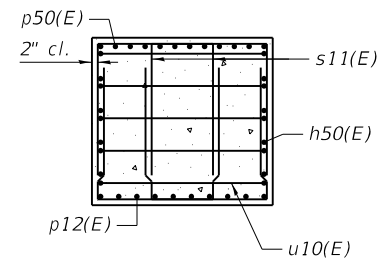


- NOTES:
1. Space reinforcement in cap to miss anchor bolts.
 2. Pour steps monolithically with cap.
 3. Existing column reinforcement shall be cleaned and incorporated into new construction. Cost included in Concrete Removal.
 4. Bars noted thus, 12x2 - #8 indicates 12 lines of bars with 2 lengths of bars per line.

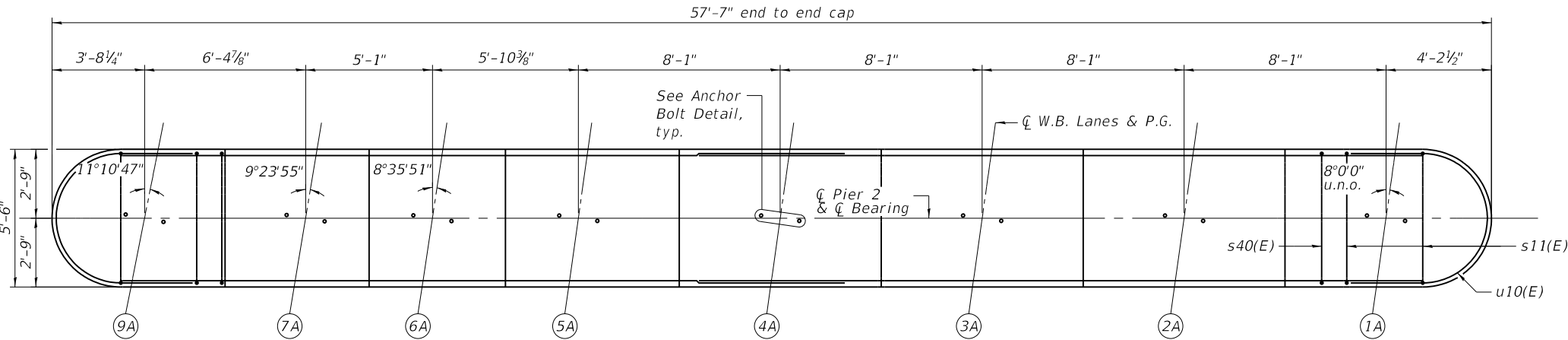


SECTION A-A

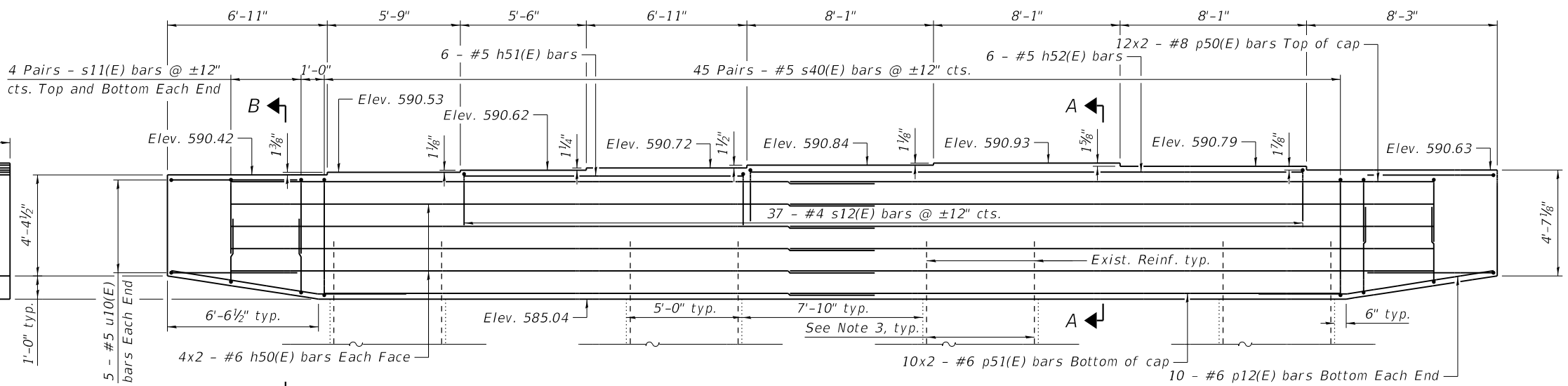


SECTION B-B

END VIEW



PLAN

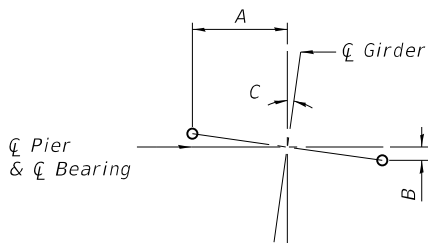


ELEVATION
(Looking East)

BAR LAP LENGTHS
#6 h50(E) bars 4'-4"
#8 p50(E) bars 8'-2"
#6 p51(E) bars 3'-10"

BILL OF MATERIAL

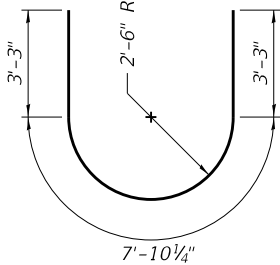
Bar	No.	Size	Length	Shape
h50(E)	16	#6	28'-3"	
h51(E)	6	#5	12'-3"	
h52(E)	6	#5	23'-11"	
p12(E)	20	#6	10'-3"	
p50(E)	24	#8	30'-2"	
p51(E)	20	#6	24'-2"	
s11(E)	32	#5	11'-6"	
s12(E)	37	#4	9'-2"	
s40(E)	90	#5	17'-11"	
u10(E)	10	#5	14'-6"	
Item			Unit	Total
Concrete Structures			Cu. Yd.	63.9
Reinforcement Bars, Epoxy Coated			Pound	6320



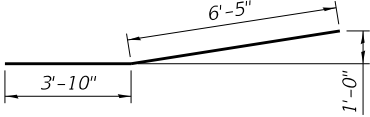
ANCHOR BOLT
DETAIL

Beam	A	B	C
1A	9 3/16"	1 5/16"	8.000°
2A	9 3/16"	1 5/16"	8.000°
3A	9 3/16"	1 5/16"	8.000°
4A	9 3/16"	1 5/16"	8.000°
5A	9 3/16"	1 5/16"	8.000°
6A	9 3/16"	1 3/8"	8.598°
7A	9 3/16"	1 1/2"	9.399°
9A	9 3/16"	1 3/16"	11.180°

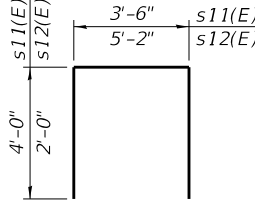
A, B, & C
DIMENSIONS



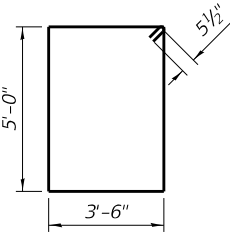
BAR u10(E)



BAR p12(E)



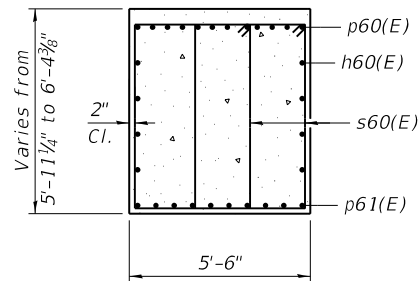
BAR s11(E)
& s12(E)



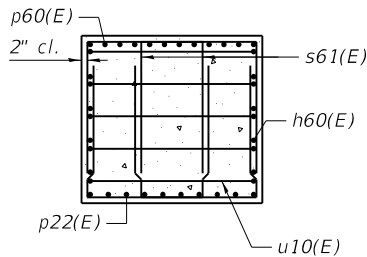
BAR s40(E)



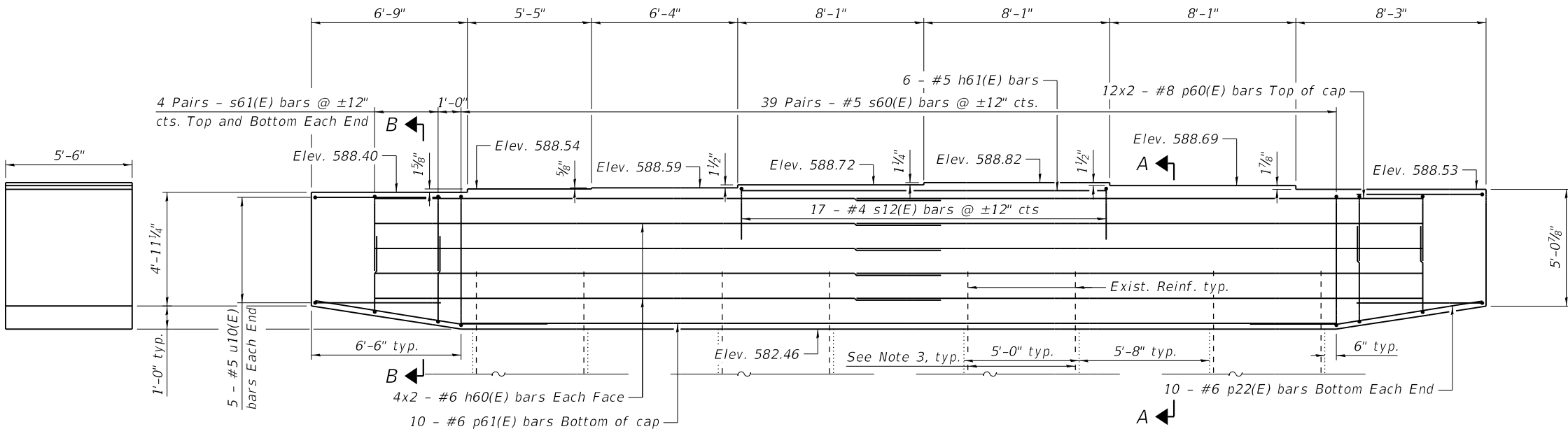
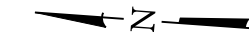
- NOTES:
1. Space reinforcement in cap to miss anchor bolts.
 2. Pour steps monolithically with cap.
 3. Existing column reinforcement shall be cleaned and incorporated into new construction. Cost included in Concrete Removal.
 4. Bars noted thus, 12x2 - #8 indicates 12 lines of bars with 2 lengths of bars per line.



SECTION A-A



SECTION B-B

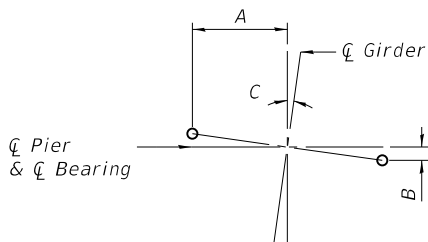


ELEVATION
(Looking East)

BAR LAP LENGTHS
#6 h60(E) bars 4'-4"
#8 p60(E) bars 8'-2"

BILL OF MATERIAL

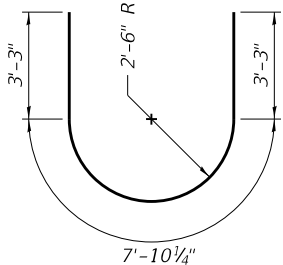
Bar	No.	Size	Length	Shape
h60(E)	16	#6	24'-11"	—
h61(E)	6	#5	15'-10"	—
p22(E)	20	#6	10'-2"	—
p60(E)	24	#8	26'-10"	—
p61(E)	10	#6	38'-0"	—
s12(E)	17	#5	9'-2"	□
s60(E)	78	#5	19'-1"	□
s61(E)	32	#5	12'-2"	□
u10(E)	10	#5	14'-6"	⌋
Item			Unit	Total
Concrete Structures			Cu. Yd.	61.4
Reinforcement Bars, Epoxy Coated			Pound	5360



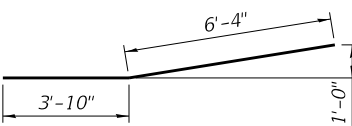
ANCHOR BOLT
DETAIL

Beam	A	B	C
1A	1'-3 3/4"	2 3/16"	8.000°
2A	1'-3 3/4"	2 3/16"	8.000°
3A	1'-3 3/4"	2 3/16"	8.000°
4A	1'-3 3/4"	2 3/16"	8.000°
5A	1'-3 3/4"	2 3/16"	8.000°
6A	1'-3 1/16"	2 3/8"	8.598°
9A	1'-3 3/16"	3 1/16"	11.180°

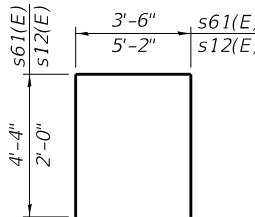
A, B, & C
DIMENSIONS



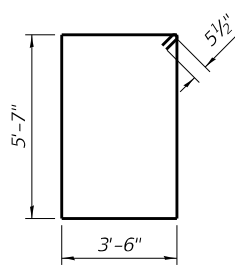
BAR u10(E)



BAR p22(E)



BAR s61(E)
& s12(E)



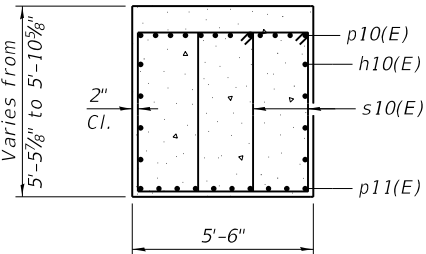
BAR s60(E)



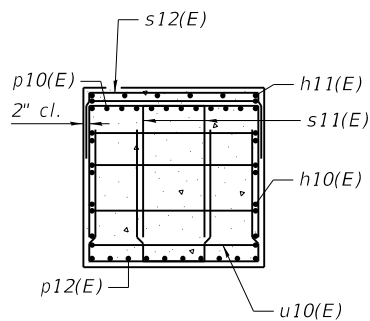
USER NAME =	DESIGNED - KWB	REVISED -
PLOT SCALE =	CHECKED - KFO	REVISED -
PLOT DATE = 10/4/2019	DRAWN - LMC	REVISED -
	CHECKED - MDC	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-2BR)ES	LASALLE	328	202
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

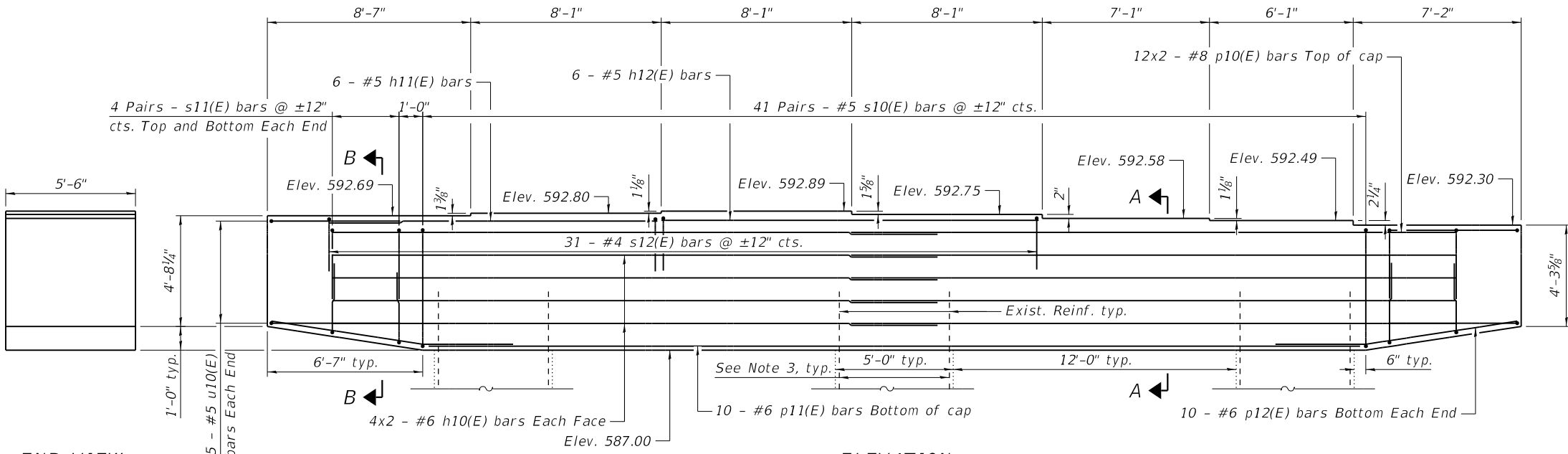
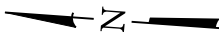
- NOTES:
1. Space reinforcement in cap to miss anchor bolts.
 2. Pour steps monolithically with cap.
 3. Existing column reinforcement shall be cleaned and incorporated into new construction. Cost included in Concrete Removal.
 4. Bars noted thus, 12x2 - #8 indicates 12 lines of bars with 2 lengths of bars per line.



SECTION A-A



SECTION B-B

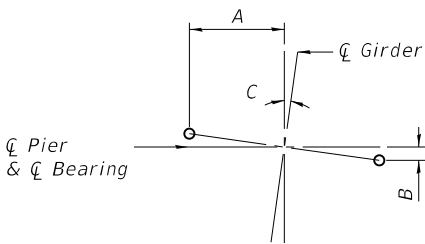


ELEVATION
(Looking East)

BAR LAP LENGTHS
#6 h10(E) bars 4'-4"
#8 p10(E) bars 8'-2"

BILL OF MATERIAL

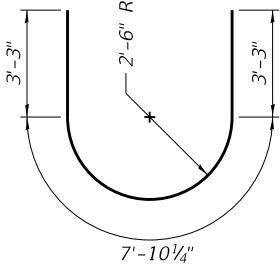
Bar	No.	Size	Length	Shape
h10(E)	16	#6	26'-0"	—
h11(E)	6	#5	13'-11"	—
h12(E)	6	#5	16'-0"	—
p10(E)	24	#8	27'-11"	—
p11(E)	10	#6	40'-0"	—
p12(E)	20	#6	10'-3"	—
s10(E)	82	#5	17'-9"	□
s11(E)	32	#5	11'-6"	□
s12(E)	31	#4	9'-2"	□
u10(E)	10	#5	14'-6"	⌋
Item			Unit	Total
Concrete Structures			Cu. Yd.	58.8
Reinforcement Bars, Epoxy Coated			Pound	5760



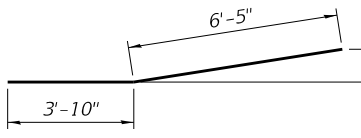
ANCHOR BOLT
DETAIL

Beam	A	B	C
1B	1'-3 3/4"	2 3/16"	8.000°
2B	1'-3 3/4"	2 3/16"	8.000°
3B	1'-3 3/4"	2 3/16"	8.000°
4B	1'-3 3/4"	2 3/16"	8.000°
5B	1'-3 3/4"	2 3/16"	8.000°
6B	1'-3 3/4"	2 3/16"	7.429°
7B	1'-3 3/4"	1 7/8"	6.854°

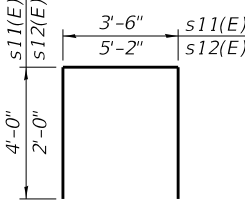
A, B, & C
DIMENSIONS



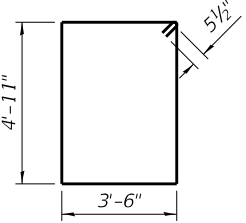
BAR u10(E)



BAR p12(E)



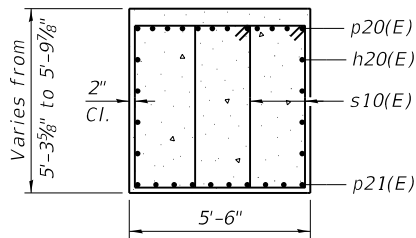
BAR s11(E)
& s12(E)



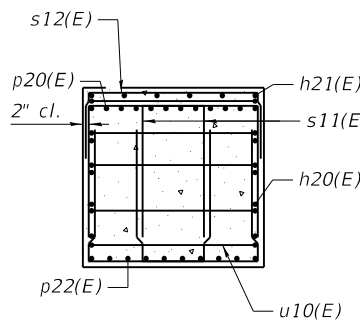
BAR s10(E)



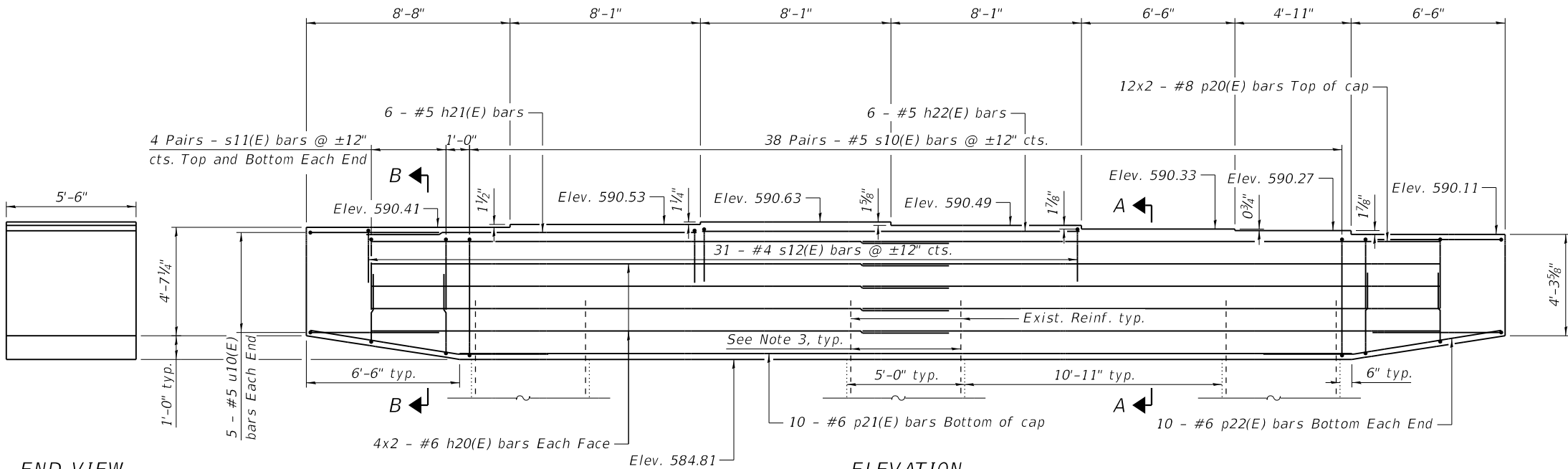
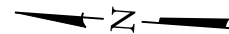
- NOTES:
1. Space reinforcement in cap to miss anchor bolts.
 2. Pour steps monolithically with cap.
 3. Existing column reinforcement shall be cleaned and incorporated into new construction. Cost included in Concrete Removal.
 4. Bars noted thus, 12x2 - #8 indicates 12 lines of bars with 2 lengths of bars per line.



SECTION A-A



SECTION B-B

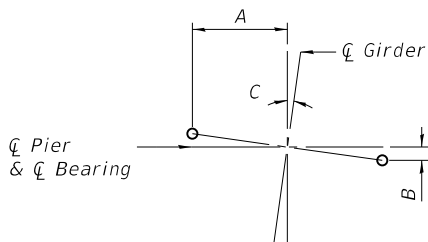


ELEVATION
(Looking East)

BAR LAP LENGTHS
#6 h20(E) bars 4'-4"
#8 p20(E) bars 8'-2"

BILL OF MATERIAL

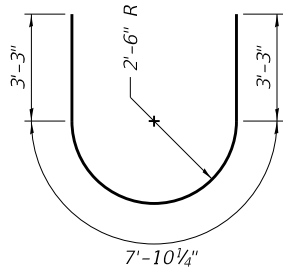
Bar	No.	Size	Length	Shape
h20(E)	16	#6	24'-10"	—
h21(E)	6	#5	14'-0"	—
h22(E)	6	#5	16'-0"	—
p20(E)	24	#8	26'-9"	—
p21(E)	10	#6	37'-10"	—
p22(E)	20	#6	10'-2"	—
s10(E)	76	#5	17'-9"	□
s11(E)	32	#5	11'-6"	□
s12(E)	31	#4	9'-2"	□
u10(E)	10	#5	14'-6"	⌋
Item			Unit	Total
Concrete Structures			Cu. Yd.	55.6
Reinforcement Bars, Epoxy Coated			Pound	5510



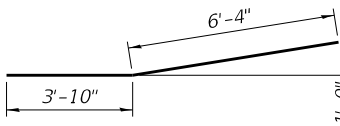
ANCHOR BOLT
DETAIL

Beam	A	B	C
1B	9 3/16"	1 3/16"	8.000°
2B	9 3/16"	1 3/16"	8.000°
3B	9 3/16"	1 3/16"	8.000°
4B	9 3/16"	1 3/16"	8.000°
5B	9 3/16"	1 3/16"	8.000°
6B	9 3/16"	1 3/16"	7.429°
7B	9 3/16"	1 1/8"	6.854°

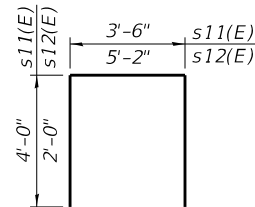
A, B, & C
DIMENSIONS



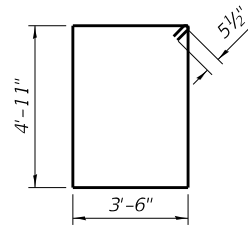
BAR u10(E)



BAR p22(E)



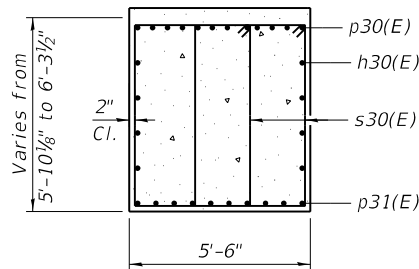
BAR s11(E)
& s12(E)



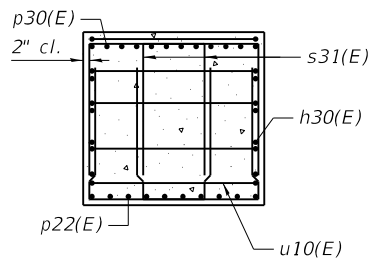
BAR s10(E)



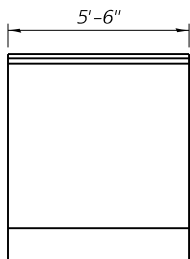
- NOTES:
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 2. Pour steps monolithically with cap.
 3. Existing column reinforcement shall be cleaned and incorporated into new construction. Cost included in Concrete Removal.
 4. Bars noted thus, 12x2 - #8 indicates 12 lines of bars with 2 lengths of bars per line.



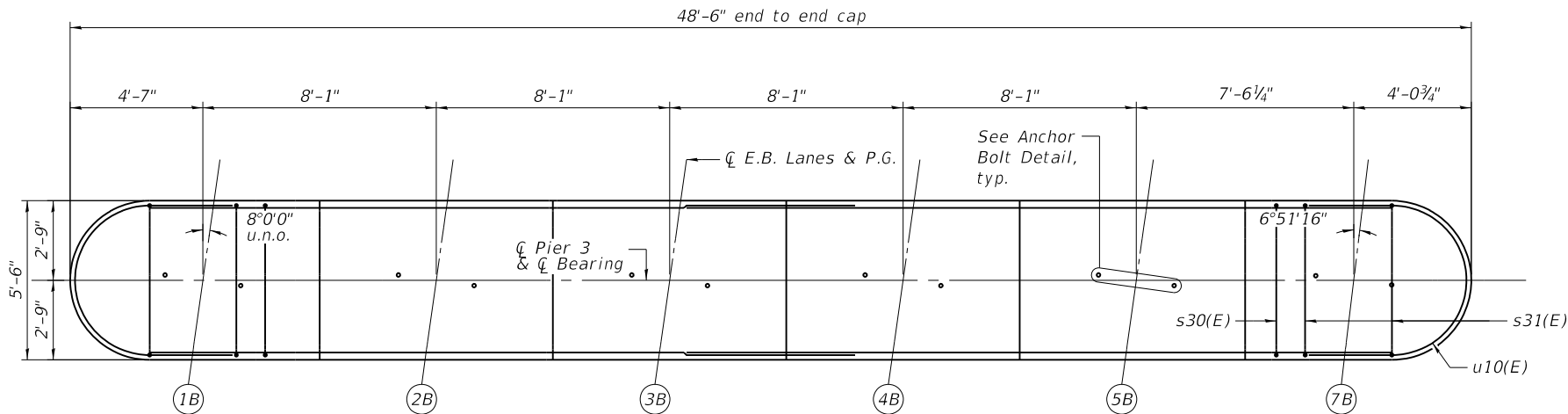
SECTION A-A



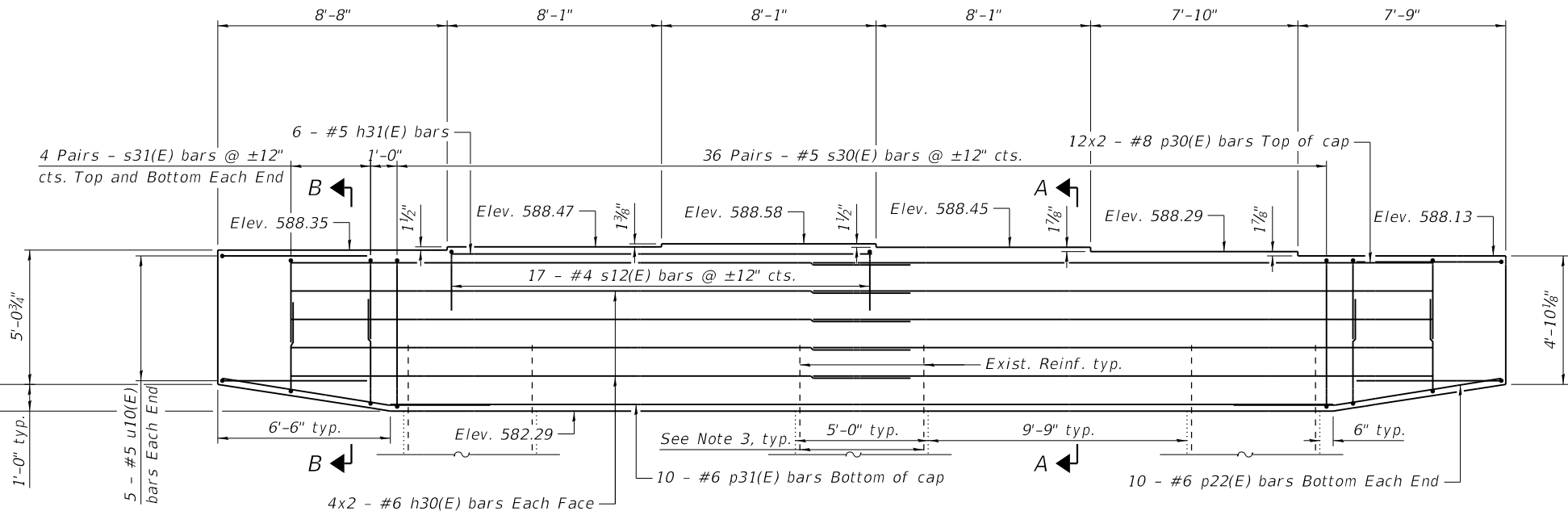
SECTION B-B



END VIEW



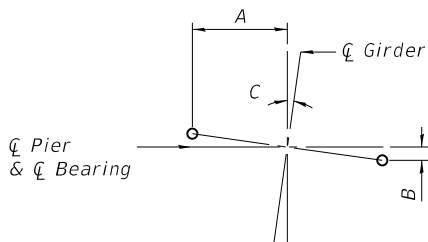
PLAN



ELEVATION
(Looking East)

BAR LAP LENGTHS

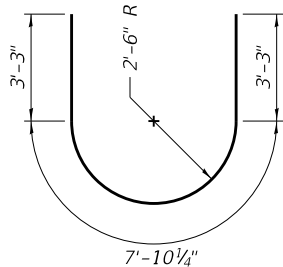
#6 h30(E) bars 4'-4"
#8 p30(E) bars 8'-2"



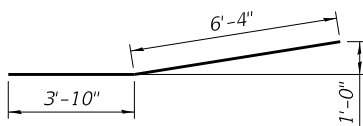
ANCHOR BOLT
DETAIL

Beam	A	B	C
1B	1'-3 3/4"	2 3/16"	8.000°
2B	1'-3 3/4"	2 3/16"	8.000°
3B	1'-3 3/4"	2 3/16"	8.000°
4B	1'-3 3/4"	2 3/16"	8.000°
5B	1'-3 3/4"	2 3/16"	8.000°
7B	1'-3 3/4"	1 7/8"	6.854°

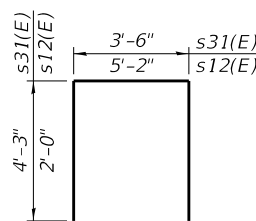
A, B, & C
DIMENSIONS



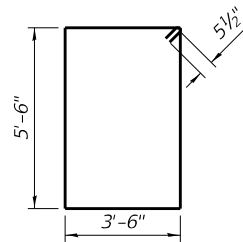
BAR u10(E)



BAR p22(E)



BAR s31(E)
& s12(E)



BAR s30(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h30(E)	16	#6	23'-8"	—
h31(E)	6	#5	15'-10"	—
p22(E)	20	#6	10'-2"	—
p30(E)	24	#8	25'-7"	—
p31(E)	10	#6	35'-6"	—
s12(E)	17	#5	9'-2"	□
s30(E)	72	#5	18'-11"	□
s31(E)	32	#4	12'-0"	□
u10(E)	10	#5	14'-6"	⌋
Item			Unit	Total
Concrete Structures			Cu. Yd.	57.6
Reinforcement Bars, Epoxy Coated			Pound	5230

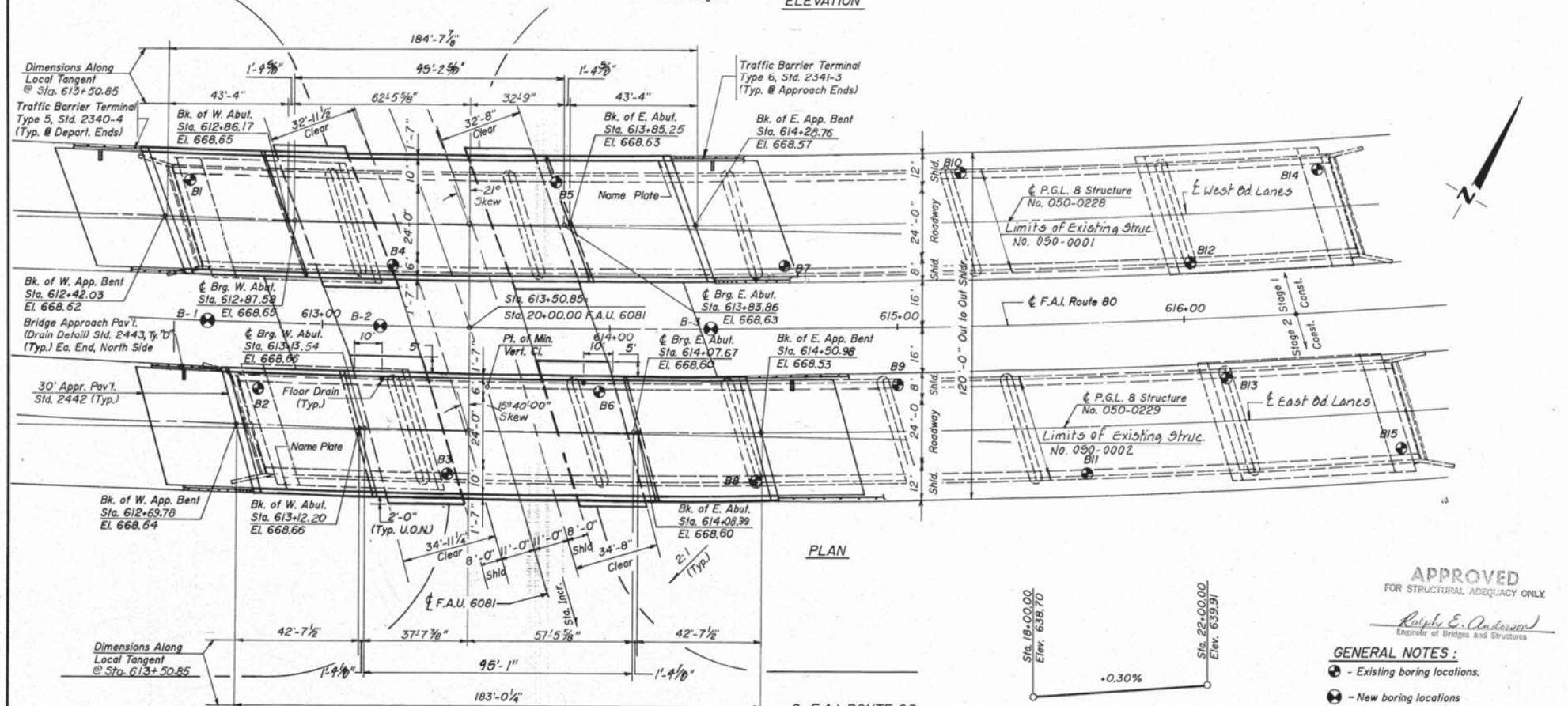
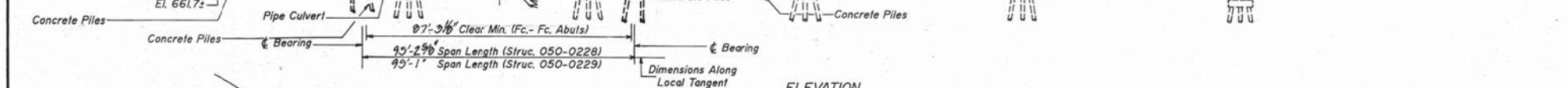


BENCH MARK : U.S.G.S. brass tablet set in North end of Pier
#1 crash wall, Structure No. 050-0001 - Elev. 640.92

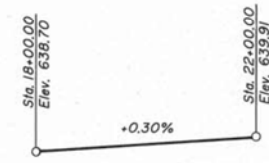
EXISTING STRUCTURE : Structures
no. 050-0001 and 050-0002
built in 1962 @ Sta. 614+15.00,
F.A.I.-80, Sec 50-2VB. Six
spans and seven spans respect-
ively, consisting of P.P.C. I-Beams
on R.C. Piers and Abutments.
Existing structure to be removed.

STAGING : Remove and reconstruct
one bridge at a time while main-
taining traffic on adjacent struc-
ture via a crossover.

SALVAGE : Recycle bituminous sur-
facing.



CL F.A.I. ROUTE 80
CURVE DATA
P.I. Sta. 608+00.00
 $\Delta = 42^\circ 27' 40''$
 $D = 1^\circ 30' 00''$
 $R = 3,819.72'$
 $T = 1483.93'$
 $L = 2830.74'$
 $E = 278.12'$
 $S.E. = 0.03 \frac{1}{4}$



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
Engineer of Bridges and Structures

GENERAL NOTES :

• - Existing boring locations.

• - New boring locations

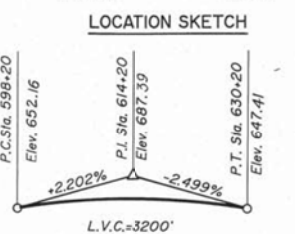
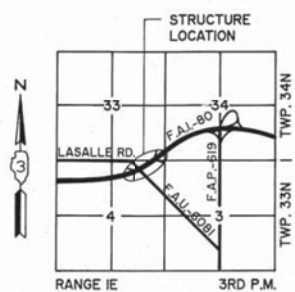
Epoxy coated reinforcement shall be
used in all substructure caps.



Expires 11-30-94

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. 80	*	LASALLE	196	37
FED ROAD DIST NO 1	ILLINOIS PROJECT			

Sheet 1 of 31 *150-21HBR-1, HB-2, BR



PROFILE GRADE
F.A.I. - 80
(Along CL of Roadways)

DESIGN SPECIFICATIONS
1992 AASHTO

LOADING HS 20-44 & ALT. LOADING
Allow 25# /sq. ft. for Future Wearing Surface.
AASHTO Seismic Acceleration Coefficient = .04

DESIGN STRESSES FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_y = 59,000$ psi (Structural Steel)
(A 210 Grade 50)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " dia. Low Relaxation Strands)
 $f'_{si} = 201,960$ psi ($\frac{1}{2}$ " dia. Low Relaxation Strands)

GENERAL PLAN
F.A.I. ROUTE 80 OVER F.A.U. 6081 (LASALLE RD.)
SECTION 50-2) HB-2
STRUCTURE NOS. 050-0228 & 050-0229
LASALLE COUNTY
STATION 613+50.85

TENNEY PAVONI ASSOCIATES, INC.
FORMERLY
TEN ECH ENGINEERING, INC.

DESIGNED : D.A.B. CHECKED : M.C.B.
DRAWN : M.H. DATE : 7/09/93 NO. 310

FOR
INFORMATION
ONLY

MODEL: Default
FILE NAME: \\quigg\projects\2018\181018_Verboe Structure IDOT D3 Barnesworth PTH 161-2-1\Work Order 14 - 140 Roadway and other\CADD\CADD Sheets\Existing Bridge Plans 0228-0229_001.dgn



USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE - 10/4/2019	REVISED -

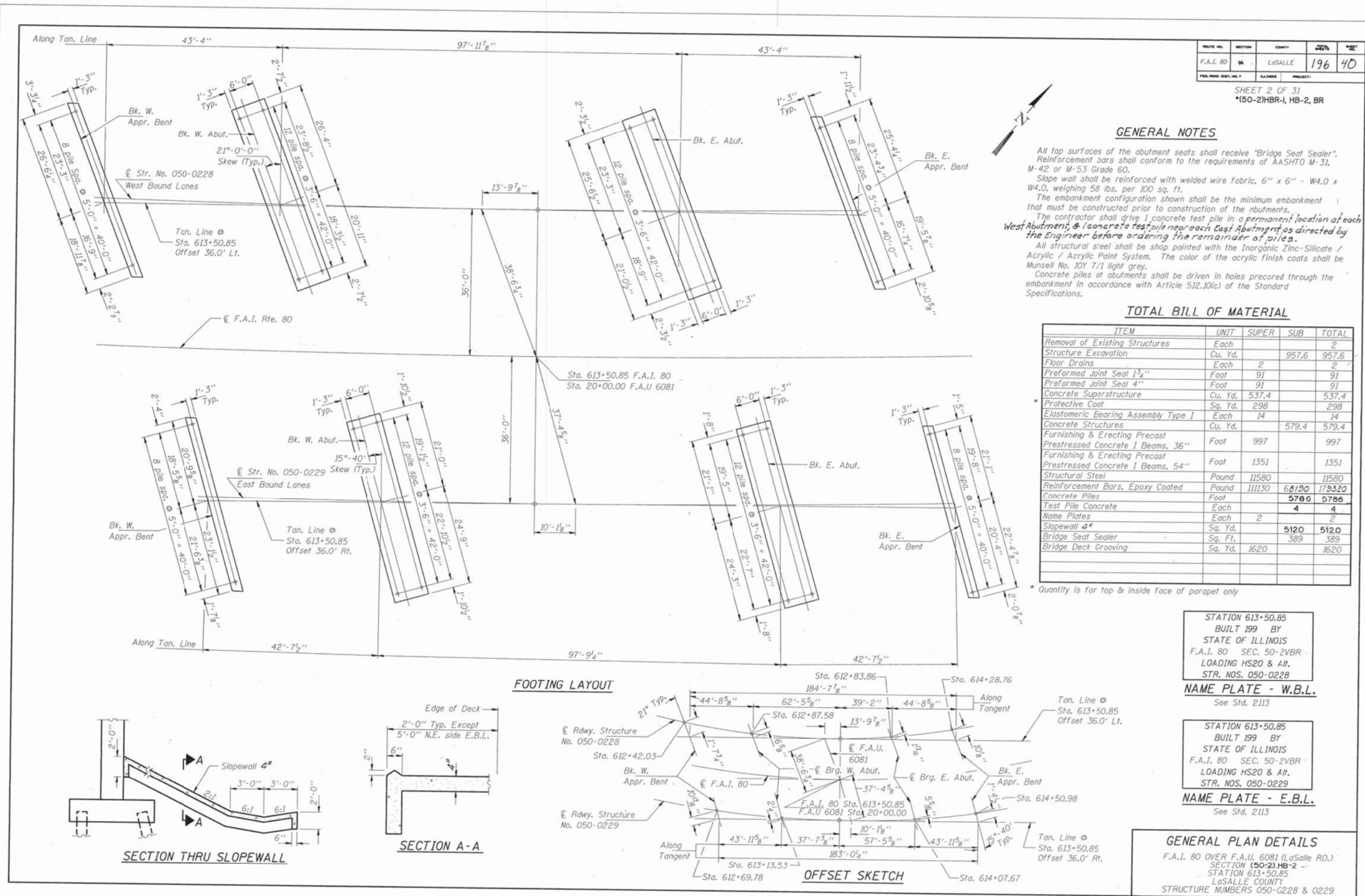
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0228/0229

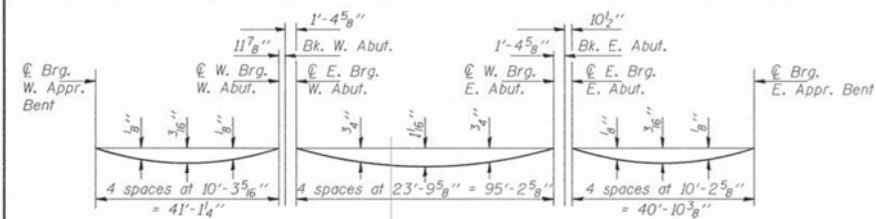
SCALE: SHEET 1 OF 30 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)-1	LASALLE	328	206
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: \\quigg\projects\2018\181018_Various Structure IDOT D3 Barrisworth Pk. 161-2-1\Work Order 14 - 140 Roadway and other\CD\CDADD Sheets\Existing Bridge Plans 0228-0229_003.dgn



FOR
INFORMATION
ONLY



SHEET 3 OF 31
*(50-2)HBR-1, HB-2, BR

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams)

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 below.

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61377.568	-20.247	668.028	668.028
E. E. BRG. E. ABUT	61378.459	-20.254	668.027	668.027
W	61369.609	-20.315	668.016	668.026
N	61398.758	-20.349	668.004	668.019
D	61408.907	-20.357	667.991	668.002
E BRG. E. APPR. BENT	61419.932	-20.335	667.976	667.976
END E. APPR. SLAB	61420.765	-20.332	667.975	667.975
BK. E. APPR. BENT	61421.306	-20.330	667.974	667.974

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61380.352	-12.934	668.245	668.245
E. BRG. E. ABUT	61381.241	-12.940	668.244	668.244
M	61391.371	-12.994	668.233	668.243
N	61401.500	-13.021	668.220	668.236
O	61411.630	-13.021	668.207	668.218
E BRG. E. APPR. BENT	61422.634	-12.992	668.192	668.192
END E. APPR. SLAB	61423.465	-12.988	668.191	668.191
BK. E. APPR. BENT	61424.005	-12.986	668.190	668.190

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61383.126	-5.619	668.462	668.462
E. E. BRG. E. ABUT	61384.012	-5.624	668.461	668.461
M	61394.123	-5.671	668.449	668.460
N	61404.233	-5.690	668.437	668.452
O	61414.343	-5.684	668.424	668.434
BRG. E. APPR. BENT	61425.325	-5.647	668.408	668.408
END E. APPR. SLAB	61426.155	-5.642	668.407	668.407
BK. E. APPR. BENT	61426.694	-5.640	668.407	668.407

P.G. AND C ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61385.251	.000	668.629	668.629
E. E. BRG. E. ABUT.	61386.142	.000	668.628	668.628
M	61396.237	.000	668.617	668.627
N	61406.352	.000	668.605	668.620
O	61416.427	.000	668.591	668.602
E BRG. E. APPR. BENT	61427.392	.000	668.575	668.575
END E. APPR. SLAB	61428.219	.000	668.573	668.573
BK. E. APPR. BENT	61428.756	.000	668.572	668.572

BEAM 4

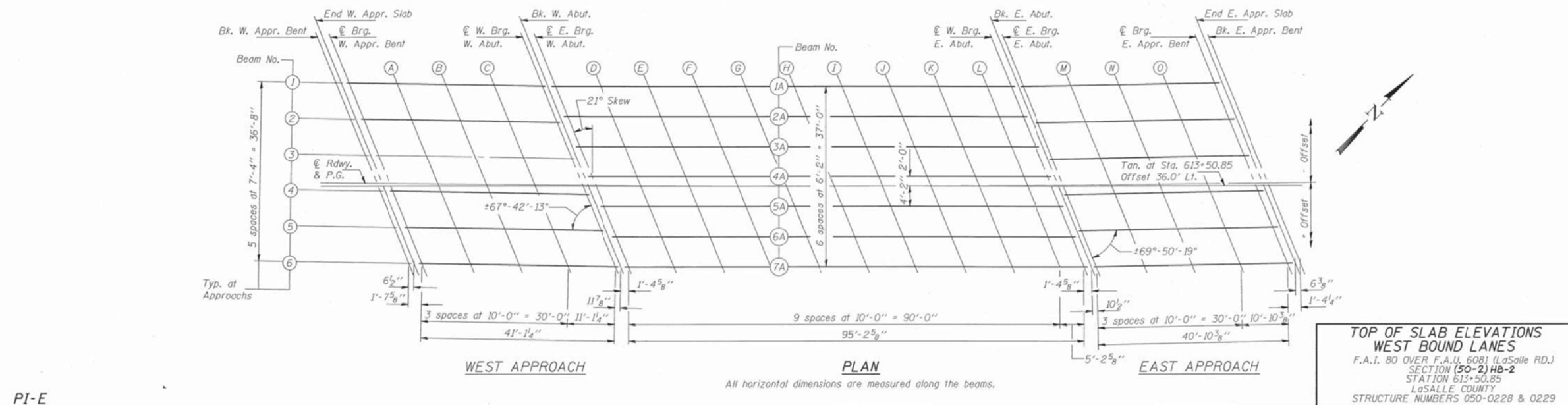
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61385.888	1.698	668.679	668.679
E. E. BRG. E. ABUT	61386.773	1.694	668.678	668.678
W	61396.064	1.655	668.666	668.676
N	61406.955	1.642	668.653	668.669
O	61417.045	1.656	668.640	668.651
E BRG. E. APPR. BENT	61428.006	1.700	668.625	668.625
END E. APPR. SLAB	61428.854	1.705	668.623	668.623
BK. E. APPR. BENT	61429.372	1.708	668.623	668.623

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	
BK. E. ABUT.	61388.640	9.017	668.896	668.896	
E. BRG. E. ABUT	61389.523	9.013	668.895	668.895	
	M	8.981	668.893	668.893	
	N	61409.666	668.870	668.885	
	O	61419.737	8.997	668.856	668.867
E BRG. E. APPR. BENT	61430.676	9.049	668.841	668.841	
END E. APPR. SLAB	61431.503	9.054	668.840	668.840	
BK. E. APPR. BENT	61432.040	9.058	668.839	668.839	

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61391.381	16.339	669.113	669.113
E. BKG. E. ABUT	61392.263	16.335	669.112	669.112
W	61402.315	16.310	669.099	669.109
N	61412.367	16.312	669.086	669.102
O	61422.418	16.340	669.073	669.083
E BKG. E. APPR. BENT	61433.336	16.400	669.057	669.057
END E. APPR. SLAB	61434.161	16.406	669.056	669.056
BK. E. APPR. BENT	61434.697	16.409	669.055	669.055



All horizontal dimensions are measured along the beams.

**TOP OF SLAB ELEVATIONS
WEST BOUND LANES**
F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 615+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

FOR
INFORMATION
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MODEL Default
FILE Name: \\quigg\projects\2018\1810018_Varbus Structure IDOT D3 Barasworth PTB 161-2-1\Work Order 14 - 1430 Roadway and otherCADD\CADD Sheets\Existing Bridge Plans 0228-0229 000.dgn

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET
F.A.I. 80	#	LaSALLE	196	42
FED. AID DIST. NO. 7		SUBPROJECT	PROJECT	

SHEET 4 OF 31

P.G. AND C ROADWAY *150-2)HBR-1, HB-2, BR

BEAM 1				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61233.464	-20.234	668.000	668.000
END W. APPR. SLAB	61234.014	-20.238	668.001	668.001
E BRG. W. APPR. BENT	61235.121	-20.247	668.002	668.002
A	61245.271	-20.310	668.012	668.022
B	61255.420	-20.347	668.021	668.036
C	61265.570	-20.358	668.029	668.040
E W. BRG. W. ABUT.	61276.810	-20.338	668.038	668.038
BK. W. ABUT.	61277.846	-20.335	668.039	668.039

BEAM 2				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61236.570	-12.925	668.224	668.224
END W. APPR. SLAB	61237.119	-12.928	668.224	668.224
E BRG. W. APPR. BENT	61238.224	-12.936	668.225	668.225
A	61248.354	-12.991	668.235	668.245
B	61258.484	-13.020	668.244	668.259
C	61268.614	-13.023	668.252	668.263
E W. BRG. W. ABUT.	61279.862	-12.994	668.260	668.260
BK. W. ABUT.	61280.866	-12.990	668.261	668.261

BEAM 3				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61239.664	-5.612	668.447	668.447
END W. APPR. SLAB	61240.212	-5.616	668.447	668.447
E BRG. W. APPR. BENT	61241.315	-5.623	668.448	668.448
A	61251.425	-5.670	668.458	668.468
B	61261.535	-5.691	668.468	668.482
C	61271.646	-5.695	668.474	668.485
E W. BRG. W. ABUT.	61282.872	-5.648	668.482	668.482
BK. W. ABUT.	61283.874	-5.643	668.483	668.483

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61242.033	.000	668.618	668.618
END W. APPR. SLAB	61242.580	.000	668.618	668.618
E BRG. W. APPR. BENT	61243.685	.000	668.619	668.619
A	61253.780	.000	668.630	668.640
B	61263.875	.000	668.639	668.654
C	61273.970	.000	668.646	668.657
E W. BRG. W. ABUT.	61285.180	.000	668.653	668.653
BK. W. ABUT.	61286.175	.000	668.653	668.653

BEAM 4				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61242.746	1.702	668.670	668.670
END W. APPR. SLAB	61243.293	1.699	668.670	668.670
E BRG. W. APPR. BENT	61244.394	1.693	668.671	668.671
A	61254.485	1.654	668.680	668.690
B	61264.575	1.641	668.689	668.704
C	61274.666	1.655	668.696	668.707
E W. BRG. W. ABUT.	61285.871	1.701	668.704	668.704
BK. W. ABUT.	61286.871	1.707	668.705	668.705

BEAM 5				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61245.816	9.019	668.892	668.892
END W. APPR. SLAB	61246.362	9.017	668.893	668.893
E BRG. W. APPR. BENT	61247.461	9.012	668.894	668.894
A	61257.532	8.980	668.903	668.913
B	61267.603	8.976	668.911	668.926
C	61277.675	8.997	668.918	668.929
E W. BRG. W. ABUT.	61288.857	9.052	668.926	668.926
BK. W. ABUT.	61289.855	9.058	668.927	668.927

BEAM 6				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61248.875	16.339	669.119	669.115
END W. APPR. SLAB	61249.420	16.337	669.116	669.116
CL BRG. W. APPR. B	61250.516	16.332	669.117	669.117
A	61260.568	16.309	669.125	669.135
B	61270.620	16.312	669.133	669.149
C	61280.672	16.342	669.141	669.151
CL W. BRG. W. ABUT.	61291.833	16.405	669.148	669.148
BK. W. ABUT.	61292.829	16.412	669.148	669.148

BEAM 1A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	61278.059	-19.817	668.054	668.054
E BRG. W. ABUT.	61279.464	-19.843	668.054	668.054
D	61289.611	-20.016	668.054	668.061
E	61299.759	-20.163	668.053	668.106
F	61309.908	-20.284	668.052	668.121
G	61320.057	-20.378	668.050	668.130
H	61330.207	-20.445	668.047	668.133
I	61340.357	-20.486	668.043	668.118
J	61350.507	-20.500	668.039	668.103
K	61360.657	-20.488	668.034	668.074
L	61370.807	-20.449	668.028	668.042
E W. BRG. E. ABUT.	61376.104	-20.418	668.024	668.024
BK. E. ABUT.	61377.510	-20.408	668.024	668.024

BEAM 2A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	61280.576	-13.695	668.239	668.239
E BRG. W. ABUT.	61281.979	-13.721	668.239	668.239
D	61292.119	-13.888	668.239	668.265
E	61302.241	-14.028	668.238	668.291
F	61312.373	-14.142	668.236	668.306
G	61322.505	-14.230	668.234	668.314
H	61332.639	-14.290	668.231	668.317
I	61342.773	-14.325	668.227	668.302
J	61352.906	-14.333	668.223	668.287
K	61363.040	-14.314	668.217	668.257
L	61373.173	-14.269	668.211	668.225
E W. BRG. E. ABUT.	61378.461	-14.235	668.208	668.208
BK. E. ABUT.	61379.865	-14.225	668.207	668.207

BEAM 3A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	61283.084	-7.572	668.424	668.424
E BRG. W. ABUT.	61284.486	-7.597	668.424	668.424
D	61294.600	-7.757	668.424	668.450
E	61304.715	-7.891	668.423	668.475
F	61314.831	-7.999	668.421	668.490
G	61324.947	-8.090	668.418	668.499
H	61335.064	-8.134	668.415	668.501
I	61345.181	-8.162	668.411	668.486
J	61355.298	-8.164	668.406	668.470
K	61365.415	-8.139	668.401	668.441
L	61375.531	-8.088	668.395	668.409
E W. BRG. E. ABUT.	61380.811	-8.050	668.391	668.391
BK. E. ABUT.	61382.212	-8.039	668.390	668.390

BEAM 4A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	61285.585	-1.448	668.609	668.609
E BRG. W. ABUT.	61286.984	-1.471	668.609	668.609
D	61297.082	-1.625	668.609	668.635
E	61307.181	-1.755	668.607	668.660
F	61317.280	-1.854	668.605	668.675
G	61327.380	-1.929	668.603	668.683
H	61337.481	-1.977	668.599	668.685
I	61347.581	-1.999	668.595	668.670
J	61357.681	-1.994	668.590	668.654
K	61367.782	-1.963	668.585	668.625
L	61377.882	-1.905	668.578	668.592
E W. BRG. E. ABUT.	61383.153	-1.865	668.575	668.575
BK. E. ABUT.	61384.552	-1.853	668.574	668.574

P.G. AND C ROADWAY				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	61286.175	.000	668.653	668.653
E BRG. W. ABUT.	61287.583	.000	668.654	668.654
D	61297.678	.000	668.658	668.684
E	61307.773	.000	668.658	668.713
F	61317.868	.000	668.661	668.730
G	61327.963	.000	668.660	668.740
H	61338.059	.000	668.658	668.744
I	61348.154	.000	668.655	668.730
J	61358.249	.000	668.650	668.714
K	61368.344	.000	668.643	668.683
L	61378.439	.000	668.635	668.649
E W. BRG. E. ABUT.	61383.857	.000	668.630	668.630
BK. E. ABUT.	61385.251	.000	668.629	668.629

BEAM 5A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	61288.078	4.678	668.794	668.794
E BRG. W. ABUT.	61289.474	4.656	668.794	668.794
D	61299.556	4.508	668.794	668.820
E	61309.639	4.387	668.792	668.845
F	61319.722	4.292	668.790	668.859
G	61329.805	4.224	668.787	668.867
H	61339.889	4.182	668.783	668.869
I	61349.973	4.167	668.779	668.854
J	61360.057	4.178	668.774	668.838
K	61370.141	4.215	668.768	668.808
L	61380.225	4.279	668.762	668.776
E W. BRG. E. ABUT.	61385.487	4.322	668.758	668.758
BK. E. ABUT.	61386.884	4.335	668.757	668.757

BEAM 6A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	61290.562	10.806	668.979	668.979
E BRG. W. ABUT.	61291.957	10.784	668.979	668.979
D	61302.022	10.643	668.978	669.005
E	61312.089	10.529	668.977	669.029
F	61322.156	10.440	668.974	669.043
G	61332.223	10.379	668.971	669.051
H	61342.290	10.343	668.967	669.053
I	61352.358	10.334	668.963	669.038
J	61362.426	10.351	668.958	669.022
K	61372.493	10.394	668.952	668.992
L	61382.560	10.464	668.945	668.959
E W. BRG. E. ABUT.	61387.814	10.511	668.942	668.942
BK. E. ABUT.	61389.208	10.525	668.941	668.941

BEAM 7A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	61293.039	16.935	669.164	669.164
E BRG. W. ABUT.	61294.431	16.915	669.164	669.164
D	61304.481	16.780	669.163	669.189
E	61314.531	16.672	669.161	669.214
F	61324.581	16.590	669.159	669.228
G	61334.632	16.534	669.155	669.236
H	61344.683	16.505	669.151	669.237
I	61354.735	16.502	669.147	669.222
J	61364.786	16.525	669.141	669.205
K	61374.837	16.575	669.135	669.175
L	61384.888	16.651	669.129	669.142
E W. BRG. E. ABUT.	61390.133	16.701	669.125	669.125
BK. E. ABUT.	61391.525	16.715	669.124	669.124

Note: For Elevations Location Plan see sheet #3 of 31.

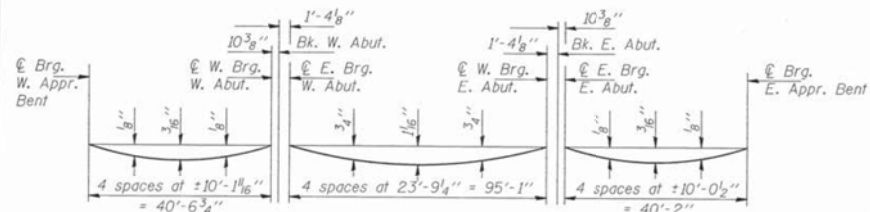
TOP OF SLAB ELEVATIONS
WEST BOUND LANES
F.A.I. 80 OVER F.A.U. 608 (LaSalle RD.)
SECTION (50-2)HBR-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

FOR
INFORMATION
ONLY



QUIGG ENGINEERING INC

USER NAME = mwilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,0000 " / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams)

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 below.

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61404.700	-16.335	668.117	668.117
E. BRG. E. ABUT.	61405.557	-16.340	668.116	668.116
M	61415.505	-16.391	668.101	668.111
N	61425.454	-16.415	668.085	668.101
O	61435.403	-16.413	668.069	668.079
E BRG. E. APPR. BENT	61445.513	-16.385	668.052	668.052
END E. APPR. SLAB	61446.359	-16.381	668.050	668.050
BK. E. APPR. BENT	61446.872	-16.379	668.049	668.049

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61406.629	-9.014	668.334	668.334
E. BRG. E. ABUT.	61407.484	-9.019	668.333	668.333
M	61417.413	-9.064	668.318	668.328
N	61427.343	-9.084	668.302	668.318
O	61437.273	-9.077	668.286	668.296
E BRG. E. APPR. BENT	61447.364	-9.043	668.269	668.269
END E. APPR. SLAB	61448.208	-9.039	668.267	668.267
BK. E. APPR. BENT	61448.721	-9.037	668.266	668.266

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61408.550	-1.692	668.551	668.551
E. BRG. E. ABUT.	61409.403	-1.697	668.550	668.550
M	61419.314	-1.737	668.535	668.545
N	61429.225	-1.751	668.519	668.535
O	61439.136	-1.740	668.503	668.513
E BRG. E. APPR. BENT	61449.208	-1.701	668.485	668.485
END E. APPR. SLAB	61450.050	-1.697	668.484	668.484
BK. E. APPR. BENT	61450.562	-1.694	668.483	668.483

P.G. AND ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61408.992	.000	668.601	668.601
E. BRG. E. ABUT.	61409.845	.000	668.600	668.600
M	61419.752	.000	668.586	668.597
N	61429.658	.000	668.571	668.587
O	61439.565	.000	668.554	668.565
E BRG. E. APPR. BENT	61449.632	.000	668.536	668.536
END E. APPR. SLAB	61450.473	.000	668.534	668.534
BK. E. APPR. BENT	61450.984	.000	668.533	668.533

BEAM 10

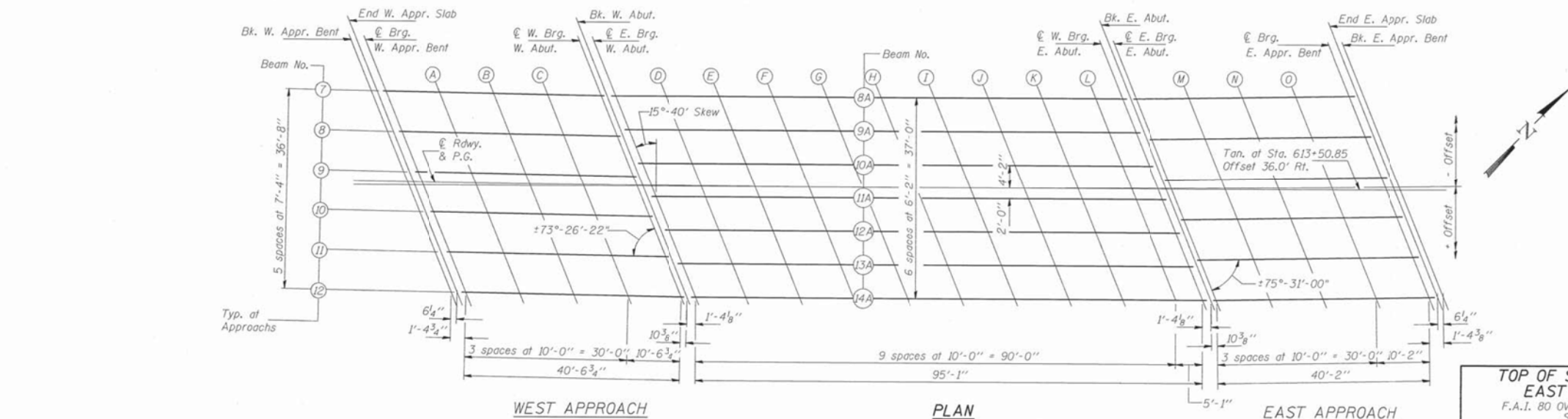
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61410.464	5.631	668.768	668.768
E. BRG. E. ABUT.	61411.316	5.627	668.767	668.767
M	61421.208	5.591	668.752	668.762
N	61431.100	5.582	668.736	668.752
O	61440.992	5.598	668.720	668.730
E BRG. E. APPR. BENT	61451.045	5.642	668.702	668.702
END E. APPR. SLAB	61451.885	5.647	668.701	668.701
BK. E. APPR. BENT	61452.396	5.650	668.700	668.700

BEAM 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61412.371	12.355	668.986	668.986
E. BRG. E. ABUT.	61413.221	12.351	668.984	668.984
M	61423.094	12.321	668.969	668.979
N	61432.968	12.316	668.953	668.969
O	61442.841	12.337	668.936	668.947
E BRG. E. APPR. BENT	61452.874	12.386	668.919	668.919
END E. APPR. SLAB	61453.714	12.391	668.917	668.917
BK. E. APPR. BENT	61454.223	12.394	668.916	668.916

BEAM 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. E. ABUT.	61414.270	20.279	669.203	669.203
E. BRG. E. ABUT.	61415.119	20.276	669.201	669.201
M	61424.973	20.251	669.186	669.196
N	61434.828	20.251	669.170	669.186
O	61444.683	20.277	669.153	669.164
E BRG. E. APPR. BENT	61454.697	20.330	669.136	669.136
END E. APPR. SLAB	61455.535	20.336	669.134	669.134
BK. E. APPR. BENT	61456.043	20.340	669.133	669.133



TOP OF SLAB ELEVATIONS
EAST BOUND LANES
F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS C50-0228 & 0229

FOR
INFORMATION
ONLY

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ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL
F.A.I. 80	#	LaSALLE	196	44
FED. ROAD DIST. NO.		SHEET	PROJECT	

SHEET 6 OF 31
P.G. AND C ROADWAY *50-2)HBR-1, HB-2, BR

BEAM 7				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61264.849	-16.327	668.150	668.150
END W. APPR. SLAB	61265.368	-16.330	668.150	668.150
E BRG. W. APPR. BENT	61266.232	-16.336	668.151	668.151
A	61276.181	-16.388	668.156	668.166
B	61286.139	-16.415	668.161	668.176
C	61296.079	-16.415	668.165	668.175
E W. BRG. W. ABUT	61306.584	-16.387	668.168	668.168
BK. W. ABUT	61307.449	-16.384	668.169	668.169

BEAM 8				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61267.064	-9.008	668.371	668.371
END W. APPR. SLAB	61267.582	-9.011	668.371	668.371
E BRG. W. APPR. BENT	61268.445	-9.017	668.372	668.372
A	61278.375	-9.063	668.377	668.387
B	61288.305	-9.084	668.382	668.397
C	61298.235	-9.079	668.386	668.396
E W. BRG. W. ABUT	61308.720	-9.045	668.389	668.389
BK. W. ABUT	61309.583	-9.041	668.389	668.389

BEAM 9				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61269.271	-1.688	668.592	668.592
END W. APPR. SLAB	61269.789	-1.691	668.593	668.593
E BRG. W. APPR. BENT	61270.650	-1.696	668.593	668.593
A	61280.561	-1.737	668.598	668.608
B	61290.472	-1.752	668.603	668.618
C	61300.383	-1.741	668.606	668.617
E W. BRG. W. ABUT	61310.848	-1.702	668.610	668.610
BK. W. ABUT	61311.709	-1.697	668.610	668.610

P.G. AND C ROADWAY				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61269.781	.000	668.643	668.643
END W. APPR. SLAB	61270.298	.000	668.644	668.644
E BRG. W. APPR. BENT	61271.162	.000	668.644	668.644
A	61281.068	.000	668.651	668.661
B	61290.975	.000	668.655	668.671
C	61300.881	.000	668.659	668.669
E W. BRG. W. ABUT	61311.342	.000	668.661	668.661
BK. W. ABUT	61312.200	.000	668.661	668.661

BEAM 10				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61271.470	5.632	668.813	668.813
END W. APPR. SLAB	61271.985	5.630	668.814	668.814
E BRG. W. APPR. BENT	61272.845	5.626	668.814	668.814
A	61282.739	5.590	668.819	668.829
B	61292.630	5.581	668.823	668.839
C	61302.523	5.598	668.827	668.838
E W. BRG. W. ABUT	61312.965	5.643	668.830	668.830
BK. W. ABUT	61313.827	5.648	668.830	668.830

BEAM 11				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61273.660	12.955	669.035	669.035
END W. APPR. SLAB	61274.176	12.952	669.035	669.035
E BRG. W. APPR. BENT	61275.034	12.949	669.035	669.035
A	61284.907	12.919	669.040	669.050
B	61294.781	12.915	669.044	669.060
C	61304.654	12.938	669.048	669.058
E W. BRG. W. ABUT	61315.080	12.989	669.051	669.051
BK. W. ABUT	61315.938	12.995	669.051	669.051

BEAM 12				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. APPR. BENT	61275.843	20.278	669.256	669.256
END W. APPR. SLAB	61276.357	20.276	669.256	669.256
E BRG. W. APPR. BENT	61277.213	20.273	669.256	669.256
A	61287.068	20.249	669.261	669.271
B	61296.923	20.251	669.265	669.281
C	61306.778	20.279	669.268	669.279
E W. BRG. W. ABUT	61317.183	20.336	669.271	669.271
BK. W. ABUT	61318.040	20.342	669.271	669.271

BEAM 8A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	61307.487	-16.253	668.173	668.173
E E. BRG. W. ABUT	61308.824	-16.268	668.172	668.172
D	61318.772	-16.365	668.170	668.196
E	61328.721	-16.436	668.167	668.220
F	61338.670	-16.480	668.164	668.233
G	61348.619	-16.499	668.160	668.240
H	61358.569	-16.492	668.155	668.241
I	61368.518	-16.459	668.149	668.224
J	61378.466	-16.400	668.143	668.207
K	61388.415	-16.314	668.136	668.176
L	61398.363	-16.203	668.129	668.145
E W. BRG. E. ABUT	61403.420	-16.136	668.125	668.125
BK. E. ABUT	61404.756	-16.118	668.123	668.123

BEAM 9A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	61309.275	-10.106	668.357	668.357
E E. BRG. W. ABUT	61310.609	-10.120	668.357	668.357
D	61320.542	-10.212	668.355	668.381
E	61330.475	-10.279	668.352	668.404
F	61340.408	-10.319	668.348	668.417
G	61350.341	-10.333	668.344	668.424
H	61360.274	-10.322	668.339	668.425
I	61370.207	-10.284	668.333	668.408
J	61380.140	-10.220	668.327	668.391
K	61390.072	-10.131	668.320	668.360
L	61400.004	-10.015	668.312	668.326
E W. BRG. E. ABUT	61405.053	-9.946	668.308	668.308
BK. E. ABUT	61406.387	-9.927	668.307	668.307

BEAM 10A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	61311.056	-3.958	668.542	668.542
E E. BRG. W. ABUT	61312.389	-3.971	668.542	668.542
D	61322.305	-4.059	668.539	668.565
E	61332.232	-4.121	668.536	668.589
F	61342.140	-4.157	668.532	668.602
G	61352.057	-4.166	668.528	668.608
H	61361.974	-4.150	668.523	668.609
I	61371.891	-4.108	668.517	668.592
J	61381.808	-4.040	668.511	668.575
K	61391.725	-3.946	668.504	668.543
L	61401.641	-3.826	668.496	668.509
E W. BRG. E. ABUT	61406.681	-3.755	668.492	668.492
BK. E. ABUT	61408.013	-3.735	668.491	668.491

P.G. AND C ROADWAY				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	61312.200	.000	668.661	668.661
E E. BRG. W. ABUT	61313.535	.000	668.661	668.661
D	61323.442	.000	668.661	668.687
E	61333.349	.000	668.660	668.712
F	61343.255	.000	668.657	668.726
G	61353.162	.000	668.652	668.733
H	61363.068	.000	668.647	668.733
I	61372.975	.000	668.640	668.714
J	61382.882	.000	668.631	668.695
K	61392.788	.000	668.621	668.660
L	61402.695	.000	668.609	668.623
E W. BRG. E. ABUT	61407.666	.000	668.603	668.603
BK. E. ABUT	61408.992	.000	668.601	668.601

BEAM 11A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	61312.832	2.191	668.727	668.727
E E. BRG. W. ABUT	61314.163	2.178	668.726	668.726
D	61324.063	2.095	668.724	668.750
E	61333.965	2.038	668.721	668.773
F	61343.866	2.006	668.717	668.786
G	61353.767	2.001	668.712	668.792
H	61363.669	2.022	668.707	668.793
I	61373.570	2.068	668.701	668.776
J	61383.471	2.141	668.695	668.759
K	61393.372	2.239	668.688	668.727
L	61403.272	2.363	668.680	668.693
E W. BRG. E. ABUT	61408.304	2.436	668.675	668.675
BK. E. ABUT	61409.634	2.457	668.674	668.674

BEAM 12A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	61314.602	8.341	668.911	668.911
E E. BRG. W. ABUT	61315.931	8.328	668.911	668.911
D	61325.816	8.250	668.908	668.934
E	61335.701	8.197	668.905	668.957
F	61345.587	8.170	668.901	668.970
G	61355.472	8.170	668.896	668.977
H	61365.358	8.195	668.891	668.977
I	61375.244	8.245	668.885	668.960
J	61385.125	8.322	668.879	668.942
K	61395.013	8.425	668.871	668.911
L	61404.897	8.554	668.863	668.877
E W. BRG. E. ABUT	61409.921	8.629	668.859	668.859
BK. E. ABUT	61411.255	8.650	668.858	668.858

BEAM 13A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	61316.367	14.451	669.096	669.096
E E. BRG. W. ABUT	61317.693	14.479	669.095	669.095
D	61327.563	14.465	669.093	669.119
E	61337.432	14.357	669.089	669.142
F	61347.302	14.335	669.085	669.155
G	61357.172	14.339	669.080	669.161
H	61367.042	14.368	669.075	669.161
I	61376.912	14.423	669.069	669.144
J	61386.781	14.505	669.062	669.126
K	61396.650	14.612	669.055	669.095
L	61406.518	14.744	669.047	669.060
E W. BRG. E. ABUT	61411.534	14.822	669.043	669.043
BK. E. ABUT	61412.860	14.843	669.042	669.042

BEAM 14A				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	61318.126	20.642	669.280	669.280
E E. BRG. W. ABUT	61319.450	20.631	669.280	669.280
D	61329.304	20.562	669.277	669.303
E	61339.158	20.518	669.274	669.326
F	61349.012	20.501	669.269	669.339
G	61358.866	20.509	669.265	669.345
H	61368.720	20.543	669.259	669.345
I	61378.574	20.602	669.253	669.328
J	61388.428	20.688	669.246	669.310
K	61398.281	20.789	669.239	669.278
L	61408.133	20.936	669.231	669.244
E W. BRG. E. ABUT	61413.141	21.016	669.226	669.226
BK. E. ABUT	61414.465	21.038	669.225	669.225

Note: For Elevations Location Plan see sheet #5 of 31.

TOP OF SLAB ELEVATIONS
EAST BOUND LANES
F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613-50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

FOR
INFORMATION
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USER NAME	= mwilson	DESIGNED	-
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PLOT DATE	= 10/2/2019	DATE -	10/4/2019

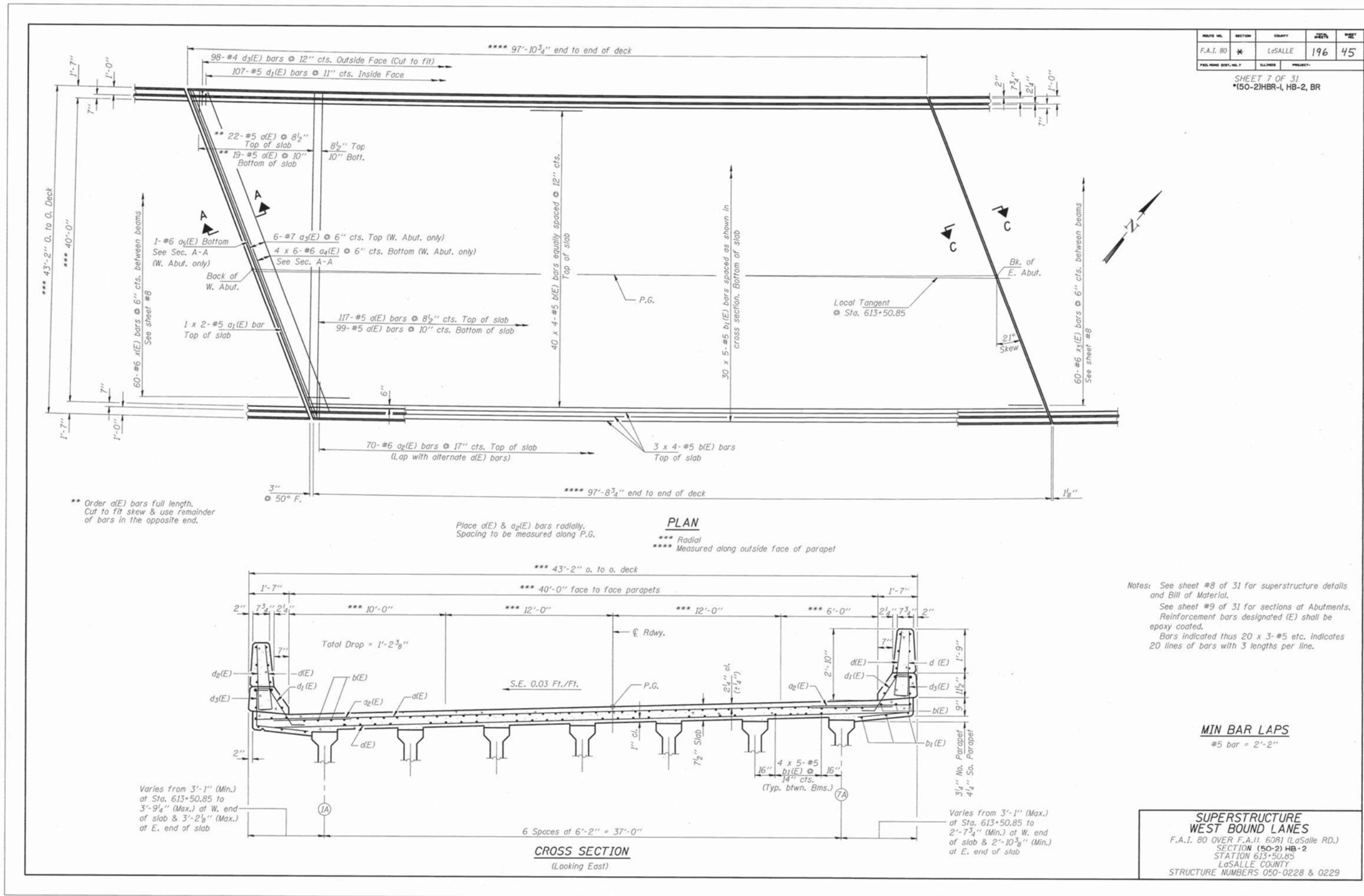
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0228/0229

SCALE: SHEET 7 OF 30 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	212
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

FOR
INFORMATION
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SHEET 8 OF 31
*(50-2)HBR-1, HB-2, BR



#5 bar = 2'-2"
#8 bar = 4'-6"

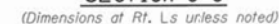
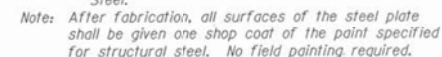
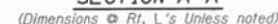
Bar	No.	Size	Length	Shape
$\alpha(E)$	257	#5	41'-2"	
$\alpha_1(E)$	4	#5	24'-1"	
$\alpha_2(E)$	140	#6	4'-0"	
$\alpha_3(E)$	6	#7	46'-0"	
$\alpha_4(E)$	24	#6	5'-3"	
$\alpha_5(E)$	1	#6	46'-0"	
$\alpha(E)$	184	#5	26'-2"	
$\beta_1(E)$	150	#5	21'-4"	
$\alpha(E)$	214	#5	3'-0"	
$\delta_1(E)$	214	#5	2'-7"	
$\delta_2(E)$	196	#4	3'-0"	
$\delta_3(E)$	196	#4	3'-10"	
$e(E)$	60	#4	19'-4"	
$e_1(E)$	16	#8	27'-11"	
$e_2(E)$	16	#5	26'-2"	
$m(E)$	24	#4	6'-0"	
$m_1(E)$	12	#6	6'-0"	
$s_1(E)$	30	#5	10'-0"	
$x(E)$	120	#6	7'-7"	
$x_3(E)$	60	#6	5'-6"	
Reinforcement Bars,			Lbs.	2808
Epoxy Coated				
Concrete				
Superstructure			Cu. Yds.	137.

Reinforcement bars designated (E) shall be epoxy coated.

F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

FOR
INFORMATION
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SHEET 9 OF 31
*(50-2)HBR-1, HB-2, BR



Note: Reinforcement bars designated (E) shall be epoxy coated.



WEST BOUND LANES
F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2)HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

MODEL Default
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USER NAME	= mwilson	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
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PLOT DATE	= 10/2/2019	DATE	= 10/4/2019	REVISED	-

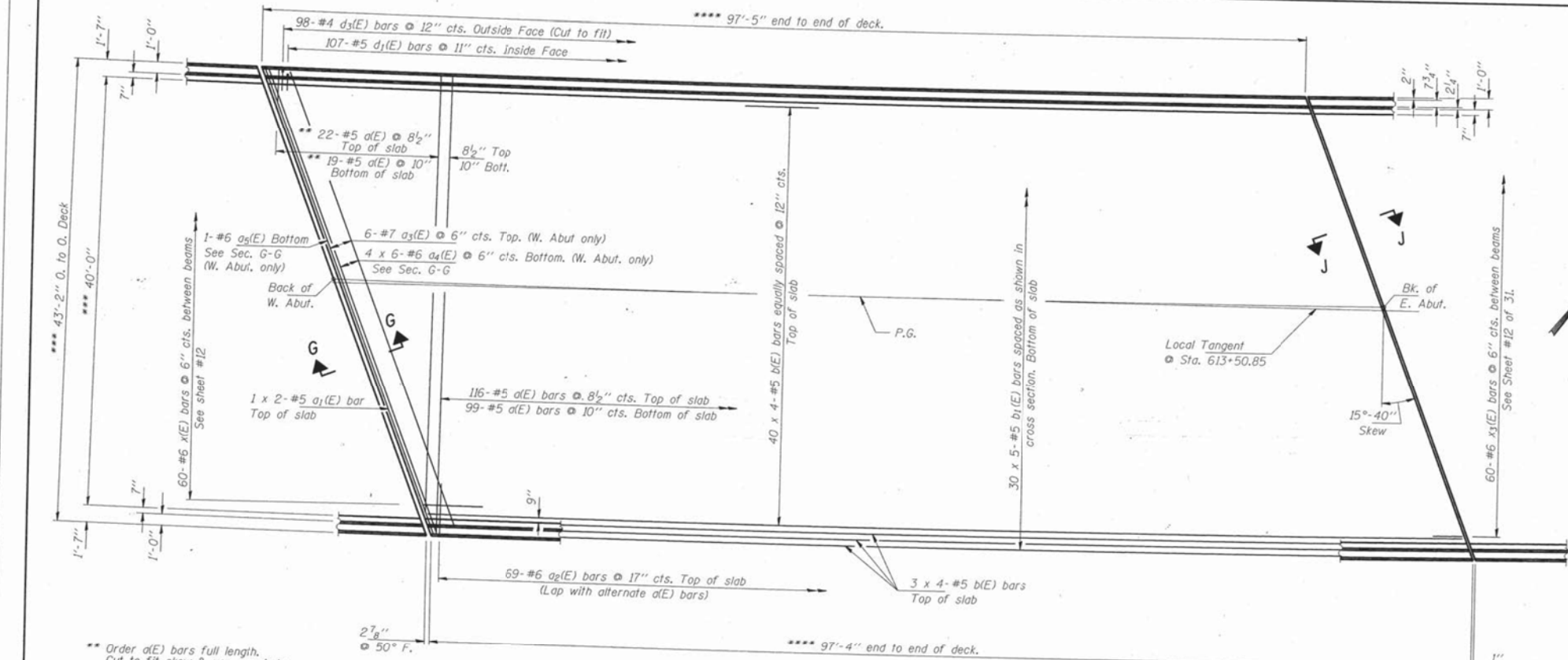
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0228/0229

SCALE: SHEET 10 OF 30 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	215
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

FOR
INFORMATION
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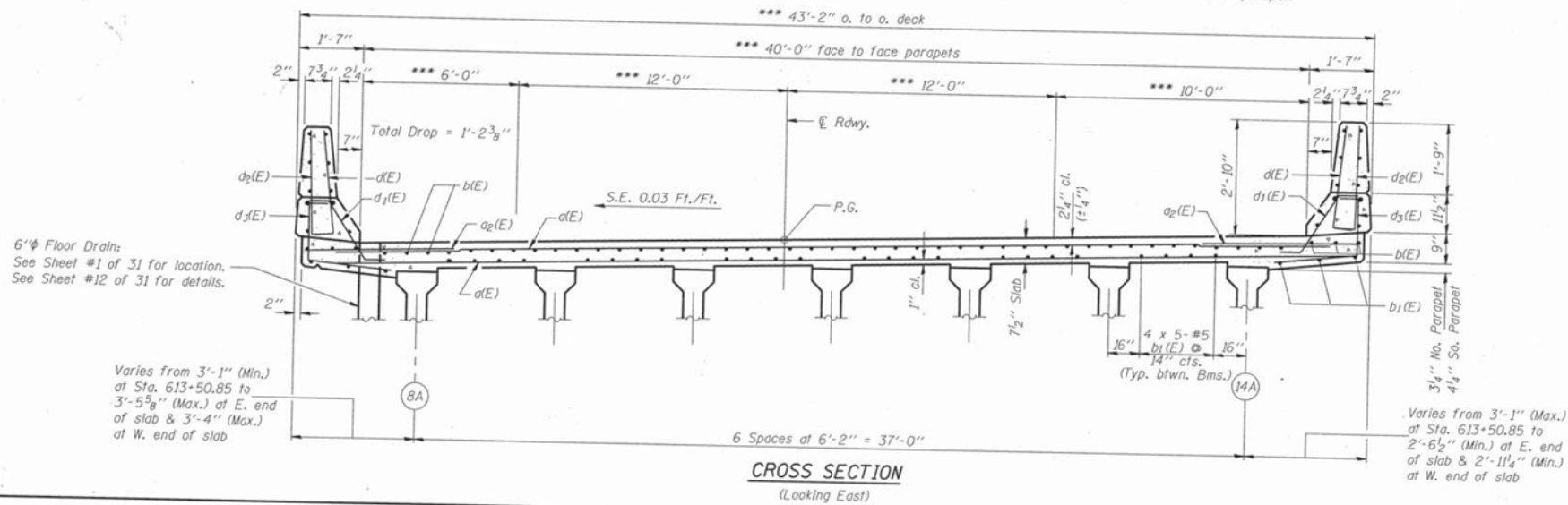


** Order d(E) bars full length.
Cut to fit skew & use remainder
of bars in the opposite end.

Place d(E) & a2(E) bars radially.
Spacing to be measured along P.G.

PLAN

*** Radial
**** Measured along outside face of parapet.



6" Floor Drains:
See Sheet #1 of 31 for location.
See Sheet #12 of 31 for details.

Varies from 3'-1" (Min.)
at Sta. 613+50.85 to
3'-5 7/8" (Max.) at E. end
of slab & 3'-4" (Max.)
at W. end of slab

CROSS SECTION
(Looking East)

Notes: See sheet #11 of 31 for superstructure details
and Bill of Material.
See sheet #12 of 31 for Section G-G
Reinforcement bars designated (E) shall be
epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.

MIN BAR LAPS
#5 bar = 2'-2"

SUPERSTRUCTURE-E. BOUND LANES

F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2)HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

SHEET 11 OF 31
 •(50-2)HBR-1, HB-2, BR



#5 bar = 2'-2"
#8 bar = 4'-6"

Bar	No.	Size	Length	Shape
a(E)	256	#5	4'-2"	—
a ₁ (E)	4	#5	24'-1"	—
a ₂ (E)	138	#6	4'-0"	—
a ₃ (E)	6	#7	45'-0"	—
a ₄ (E)	24	#6	5'-3"	—
a ₅ (E)	1	#6	46'-0"	—
b(E)	184	#5	26'-2"	—
b ₁ (E)	150	#5	21'-4"	—
d(E)	214	#5	3'-0"	—
d ₁ (E)	214	#5	2'-7"	—
d ₂ (E)	196	#4	3'-0"	—
d ₃ (E)	196	#4	3'-10"	—
e(E)	60	#4	19'-4"	—
e ₁ (E)	16	#8	27'-11"	—
e ₂ (E)	16	#5	26'-2"	—
m(E)	24	#4	5'-0"	—
m ₁ (E)	12	#6	6'-0"	—
s ₁ (E)	30	#5	10'-0"	—
x(E)	120	#6	7'-7"	—
x ₃ (E)	60	#6	5'-6"	—
Reinforcement Bars, Epoxy Coated			Lbs.	2803
Concrete Superstructure			Cu. Yds.	137

Reinforcement bars designated (E) shall be epoxy coated.

Bars indicated thus 1 x 5-#5 etc. indicates 1 line of bars with 5 lengths per line.

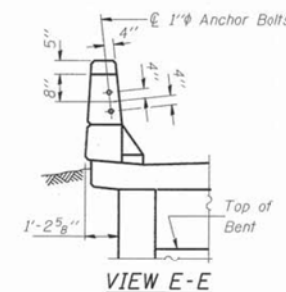
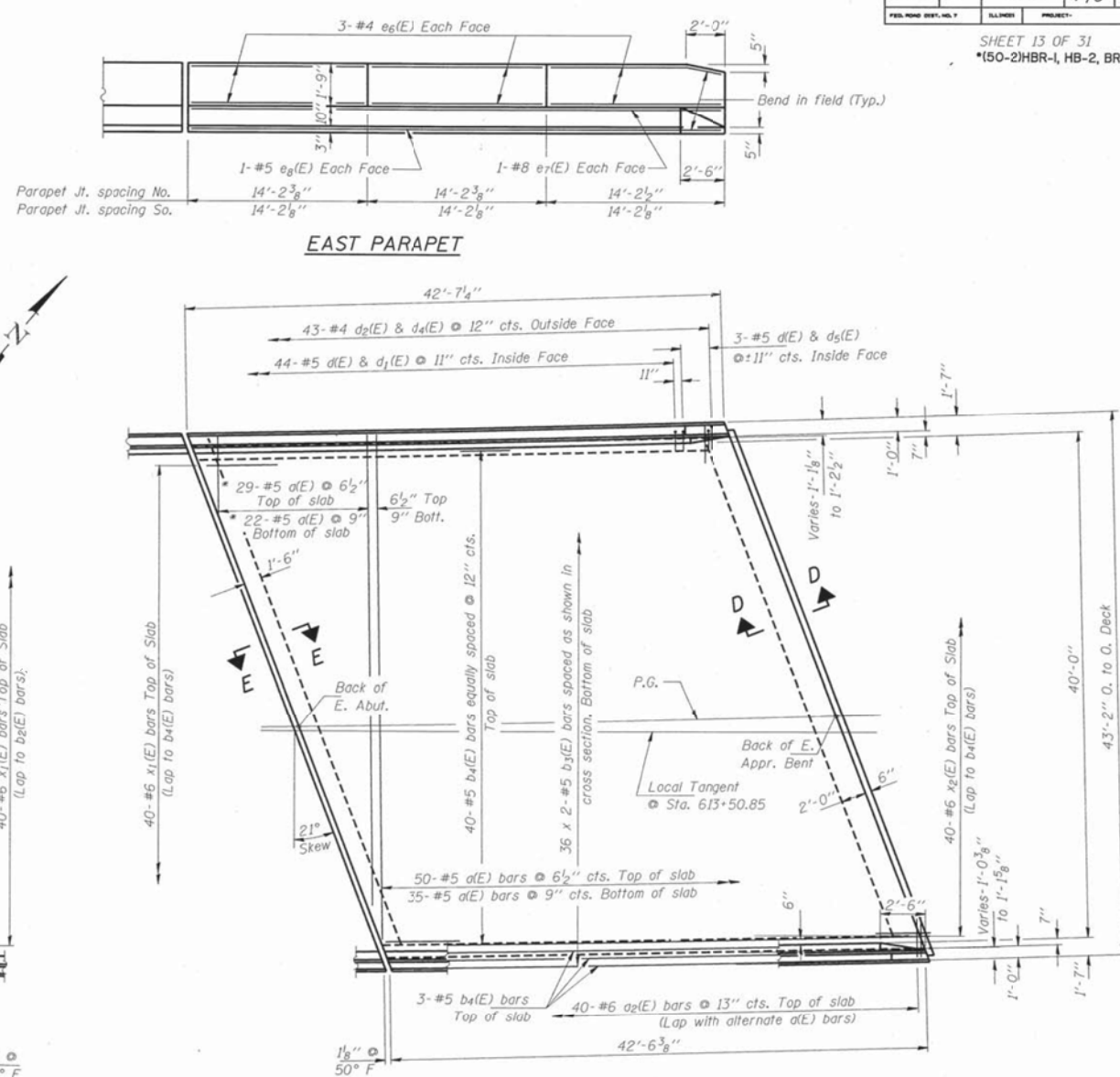
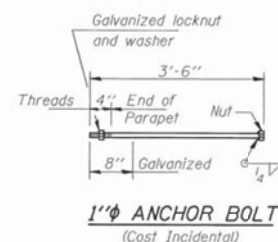
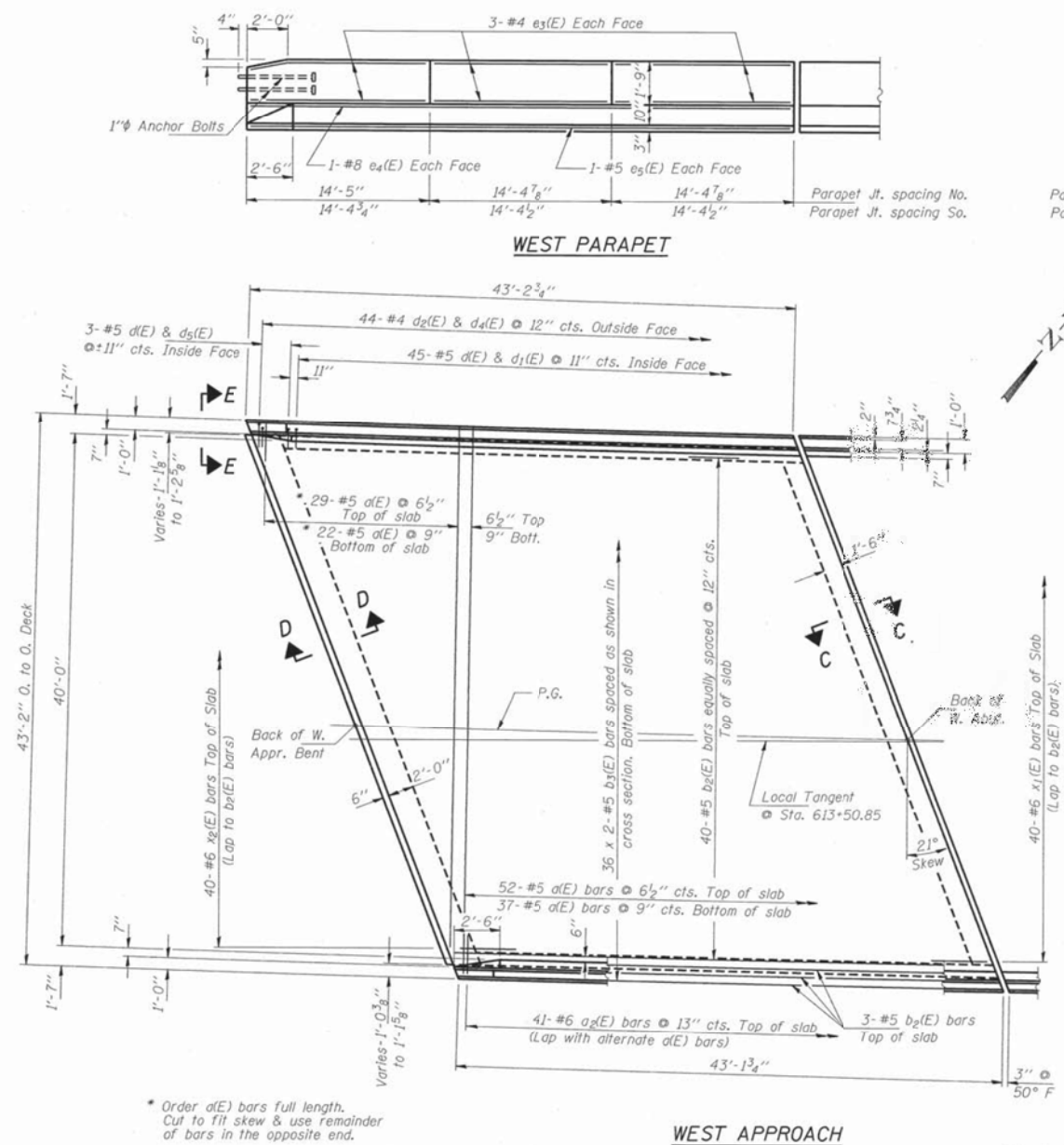
For Parapet Joint Details & Bar Details, see sheet #8 of 31.



SECTION THRU SO. PARAPET

SUPERSTRUCTURE DETAILS
EAST BOUND LANES
F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613+59.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

FOR
INFORMATION
ONLY



Reinforcement bars designated (E) shall be epoxy coated.

Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line. See sheet #14 for sections C-C, D-D & E-E.

**APPROACH SLABS
WEST BOUND LANES**
F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	✱	LOS ALLE	196	51
FEEL ROAD DIST., NO. 7		ILLINOIS	PROJECT-	

SHEET 13 OF 31
*(50-2)HBR-1, HB-2, BR

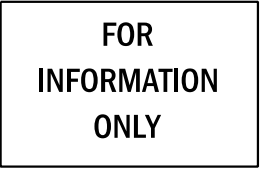
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

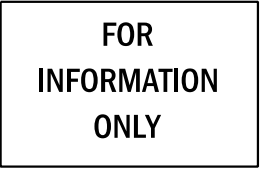
EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0228/0229

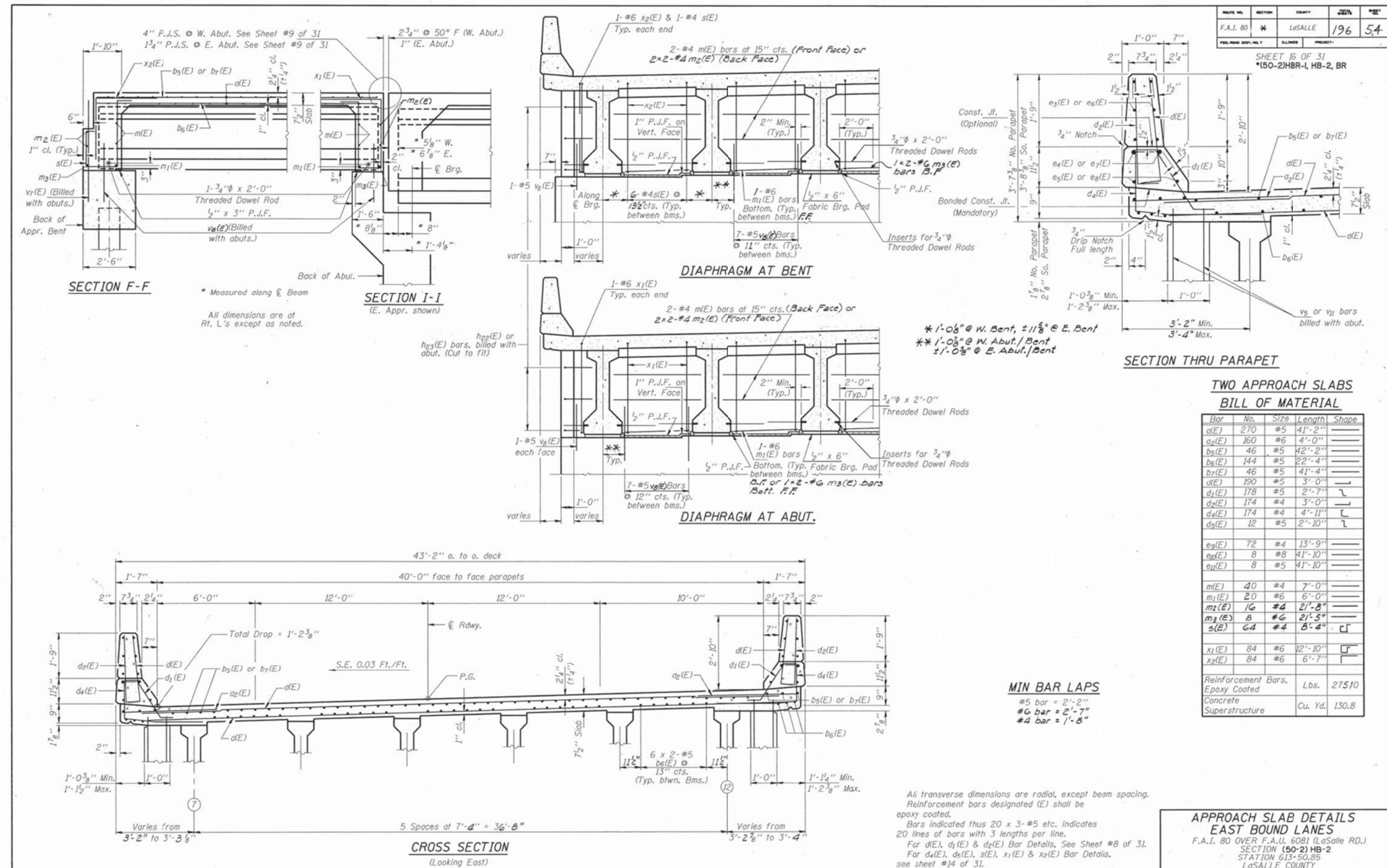
SCALE:	SHEET 13 OF 30 SHEETS	STA.	TO STA.
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	218
		CONTRACT NO. 66H21		
		ILLINOIS	FED. AID PROJECT	

FOR
INFORMATION
ONLY

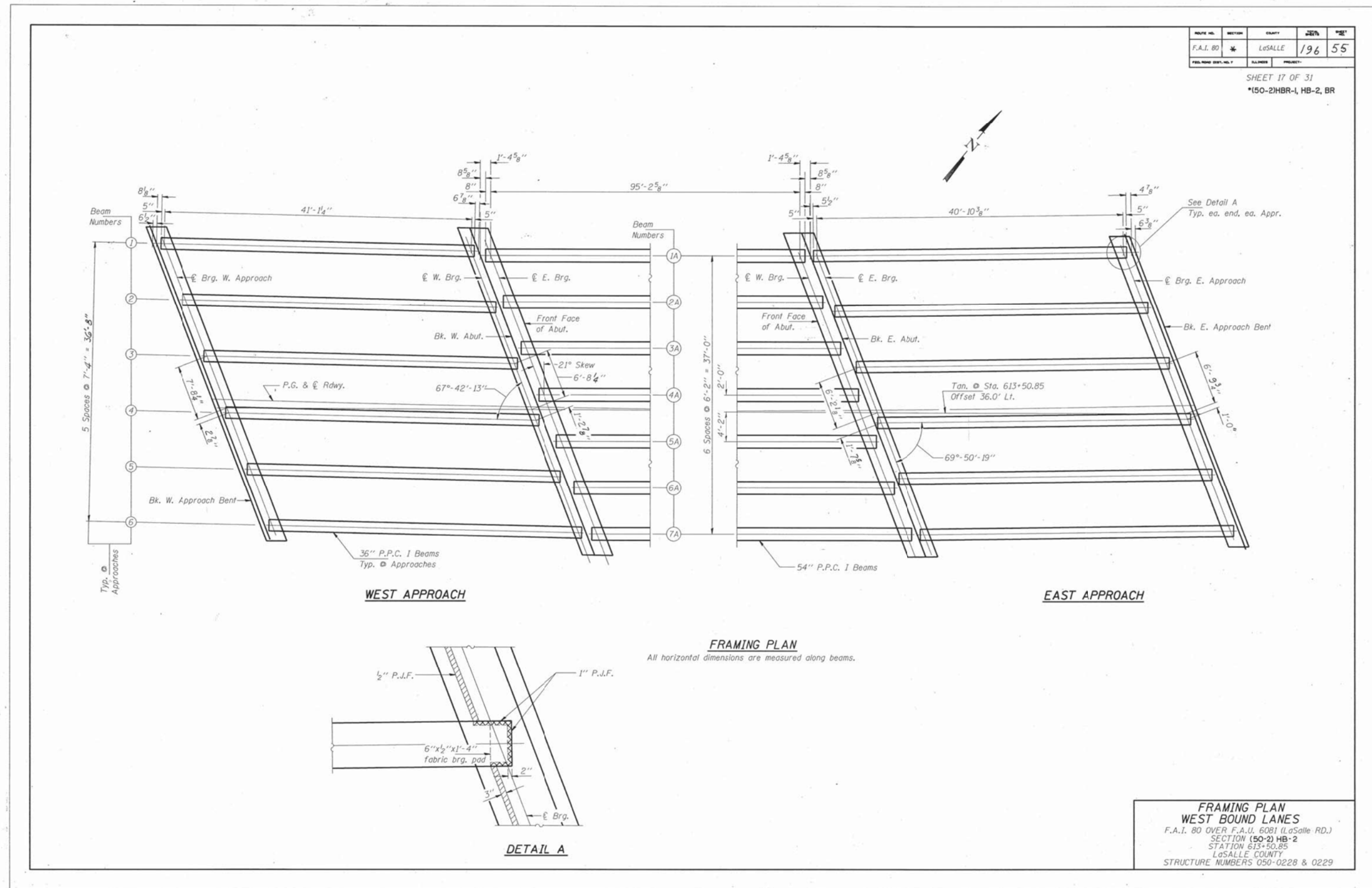






FOR
INFORMATION
ONLY

MODEL Default
FILE Name: \\quigg\projects\2018\181018 Various Structure IDOT D3 Barisworth PTB 161-2-1\Work Order 14 - 1430 Roadway and other\CADD\CADD Sheets\Existing Bridge Plans 0228-0229 017.dgn



FOR
INFORMATION
ONLY



All horizontal dimensions are measured along beams.



FRAMING PLAN
EAST BOUND LANES
F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2)HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0228/0229

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	223
		CONTRACT NO. 66H21		
		ILLINOIS	FED. AID PROJECT	

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	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

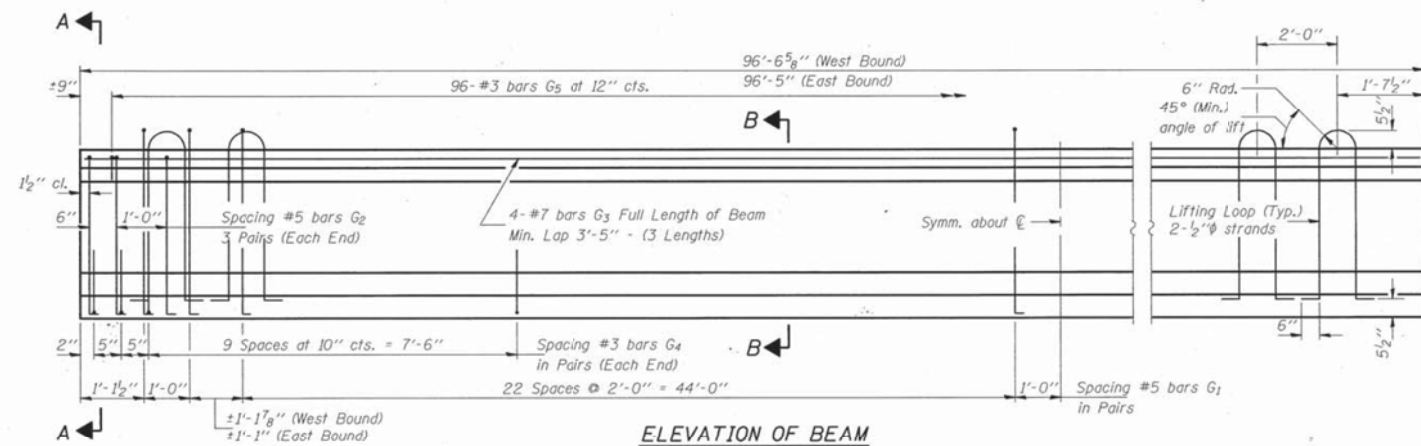
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0228/0229

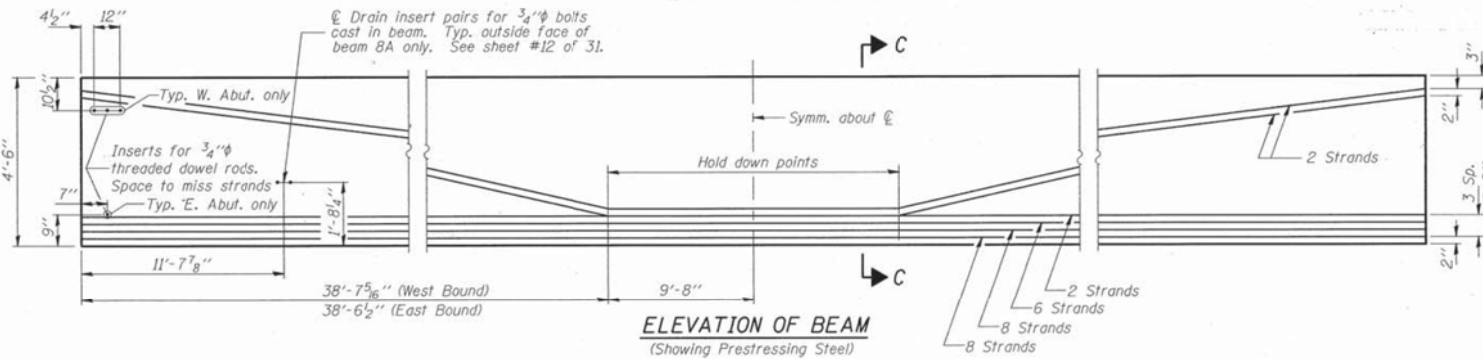
SCALE:	SHEET 19 OF 30 SHEETS	STA.	TO STA.
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	224
		CONTRACT NO. 66H21		
		ILLINOIS	FED. AID PROJECT	

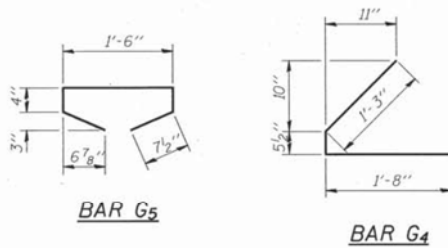
FOR
INFORMATION
ONLY



ELEVATION OF BEAM
(Showing Reinforcement & Dimensions)

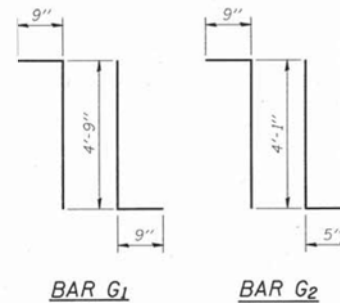


ELEVATION OF BEAM
(Showing Prestressing Steel)

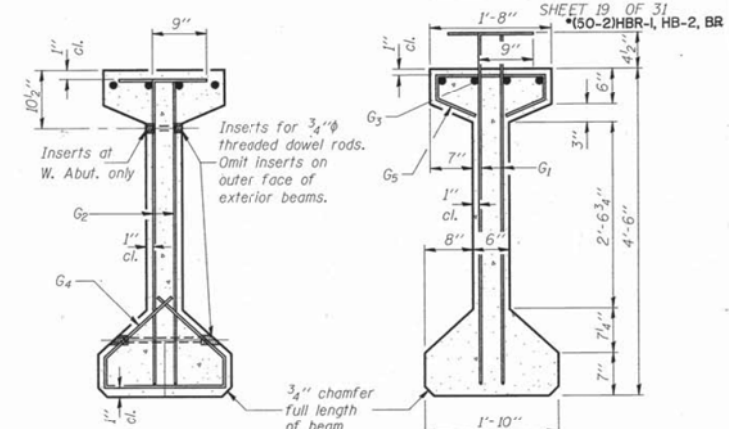


BAR G5

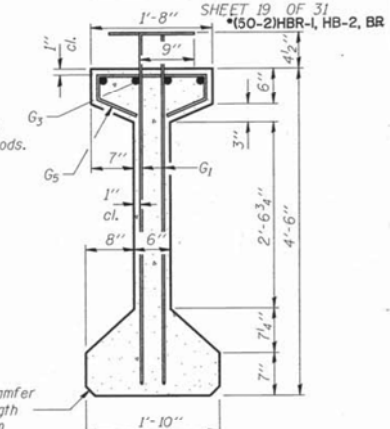
BAR G₄



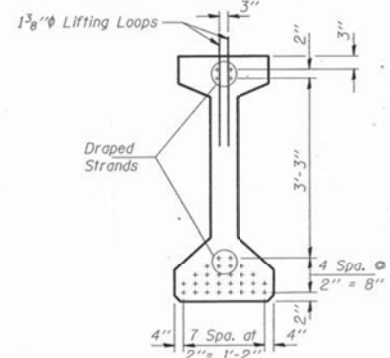
BAR G_L

BAR G_2 

SECTION A-A



SECTION B-B



SECTION C-C

* BAR LIST

Bar	No.	Size	Length	Shape
G ₁	100	#5	6'-3"	7L
G ₂	12	#6	5'-3"	7L
G ₃	12	#7	34'-5"	—
G ₄	48	#3	3'-4 1/2"	C
G ₅	96	#3	3'-5"	□

* For one beam only.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete T-Beams, 54"	Foot	1351

P.P.C. I-BEAMS (54'')

F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

NOTES

All inserts and threaded dowel rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54 in."

Prestressing steel shall be uncoated high strength, low relaxation 7 wire strand, Grade 270.

The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to AASHTO designation M-31, M-42 or M-53 Grade 60.

Lifting loops shall be 2- $\frac{1}{2}$ " ϕ -270 ksi strands, as shown.
Required release strength, f'_{ci} , shall be 5,000 psi.

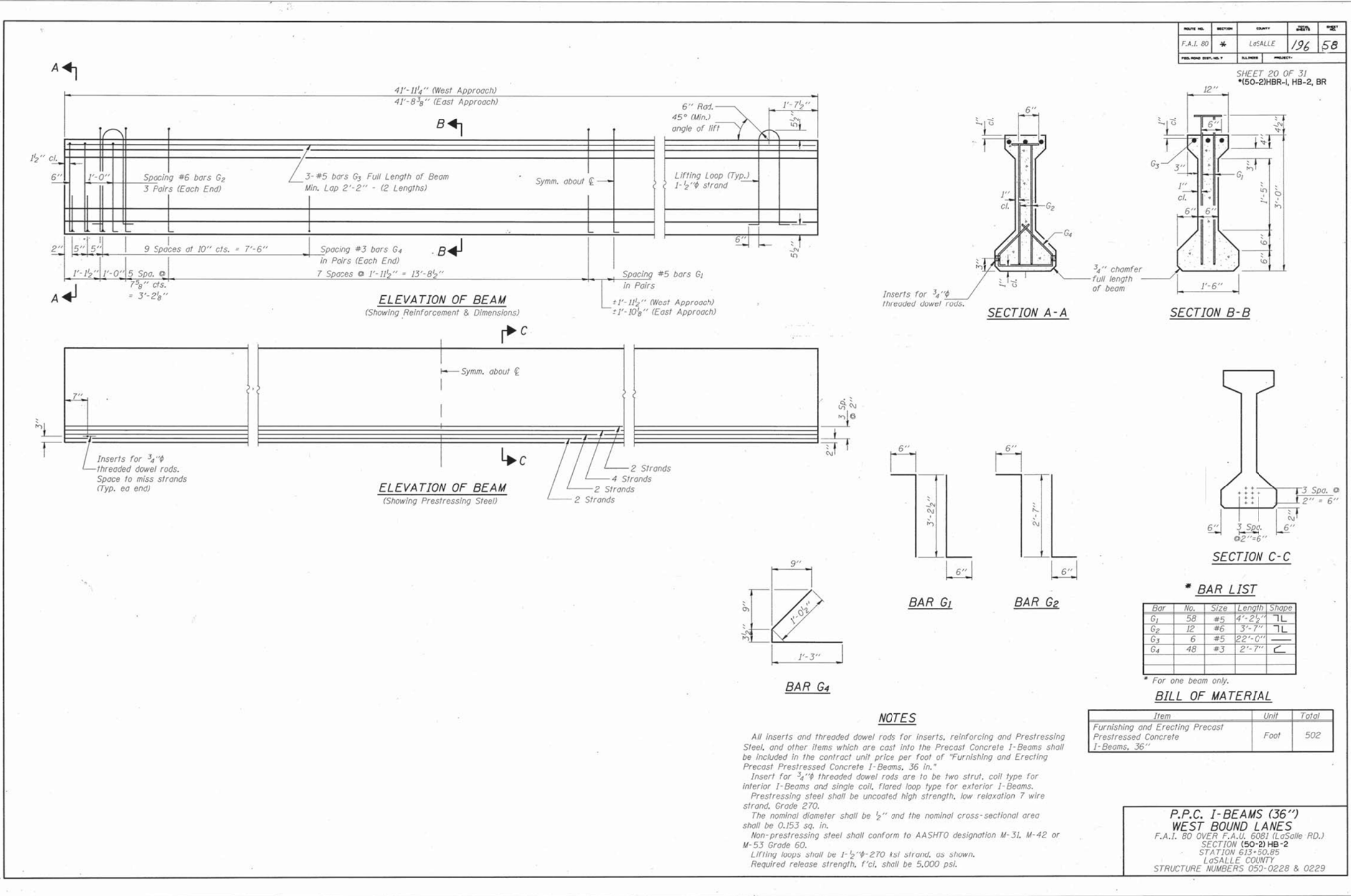
Required release strength, 1 ci, shall be 5,000 psi.

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	DRAWN -	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	225
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

FOR
INFORMATION
ONLY



USER NAME = mwilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0228/0229

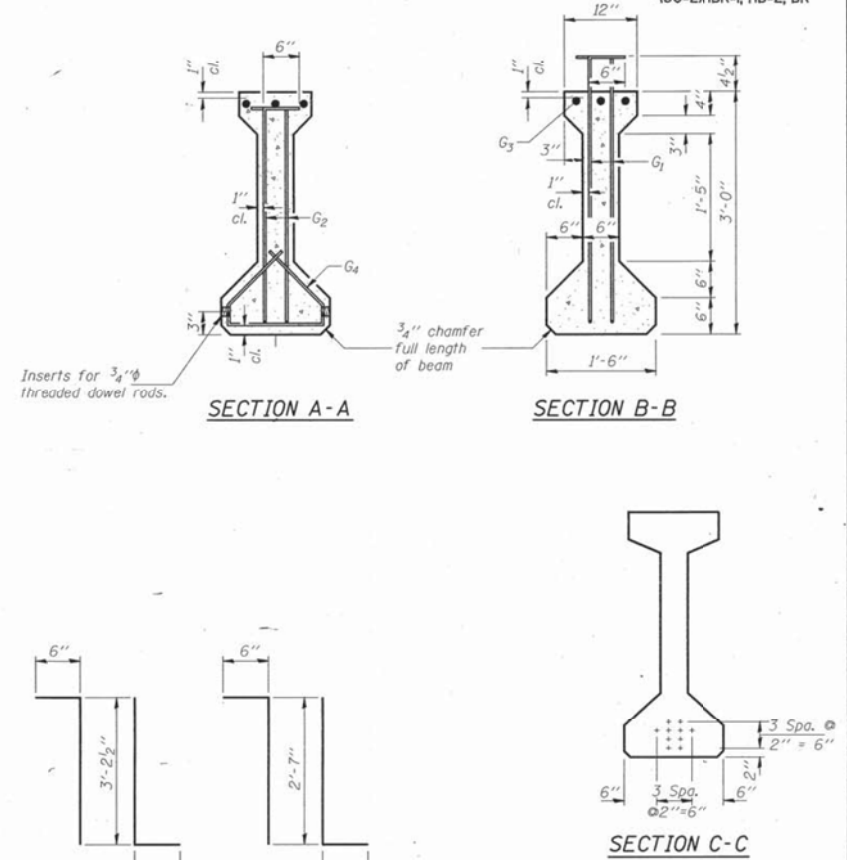
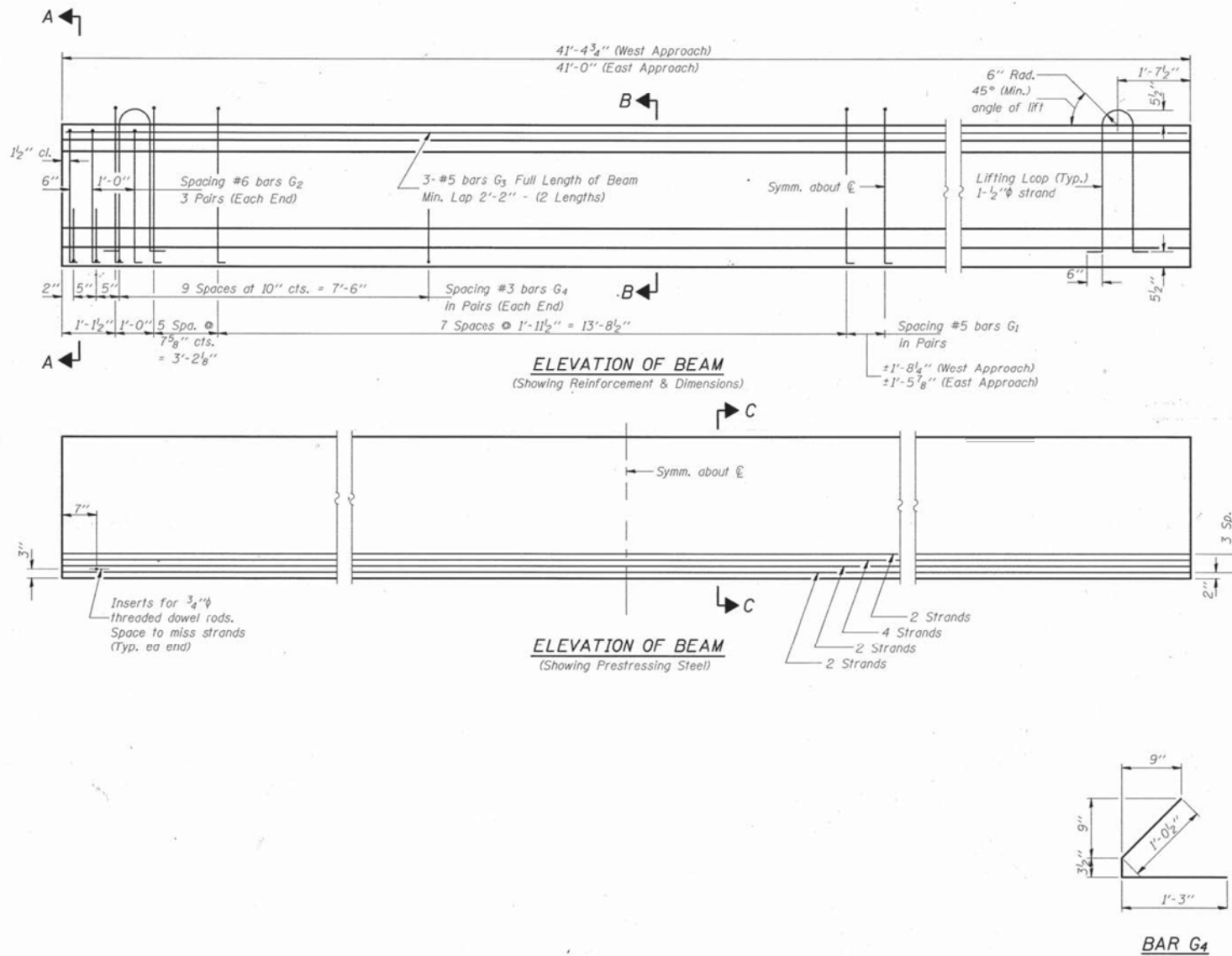
SCALE:	SHEET 21 OF 30 SHEETS	STA.	TO STA.
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	226
		CONTRACT NO. 66H21		
ILLINOIS		FED. AID PROJECT		

**FOR
INFORMATION
ONLY**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	*	LOSALLE	196	59
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT-	

SHEET 21 OF 31
 •(50-2)HBR-1, HB-2, BR

* BAR LIST

Bar	No.	Size	Length	Shops
G ₁	58	#5	4'-2½"	7
G ₂	12	#6	3'-7"	7
G ₃	6	#5	21'-9"	—
G ₄	48	#3	2'-7"	2

* For one beam only.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	Foot	495

NOTES

All inserts and threaded dowel rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per foot of "Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36 in."

Insert for $\frac{3}{4}$ " ϕ threaded dowel rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

Prestressing steel shall be uncoated high strength, low relaxation 7 wire strand, Grade 270.

The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to AASHTO designation M-31, M-42 or M-53 Grade 60.

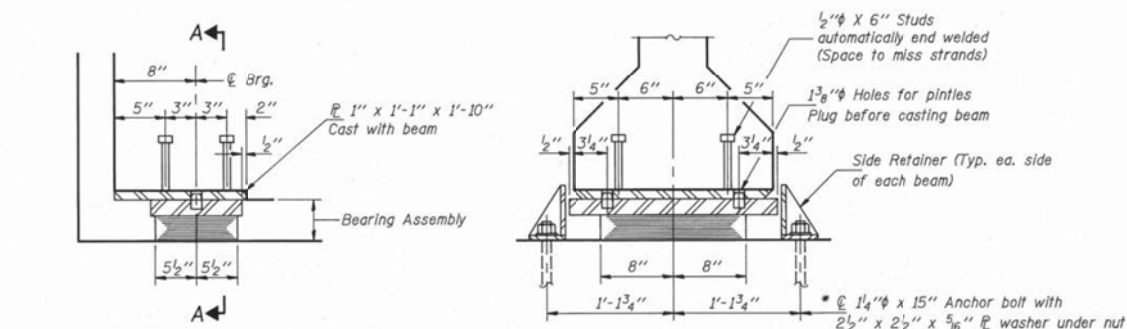
Lifting loops shall be 1- $\frac{1}{2}$ " ϕ -270 ksi strand, as shown.

Required release strength, f'cl, shall be 5,000 psi.

P.P.C. I-BEAMS (36")
EAST BOUND LANES
F.A.I. 80 OVER F.A.U. 608J (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

ROUTE NO.	DISTRICT	COUNTY	SHEET	NO.
F.A.I. 80	*	LaSALLE	196	60
FED. ROAD DIST. NO. 7		BLANK	PROJECT	

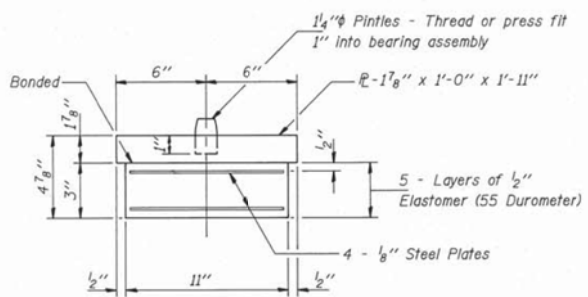
SHEET 22 OF 31
 * (50-2)HBR-1, HB-2, BR



SECTION AT W. ABUT.

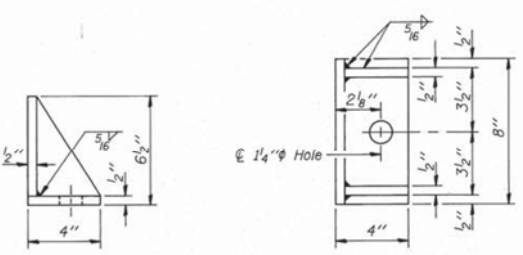
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

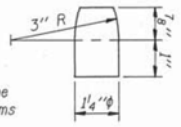
Note: Shim plates shall not be placed under Bearing Assembly.



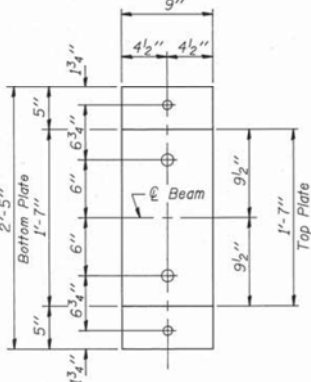
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

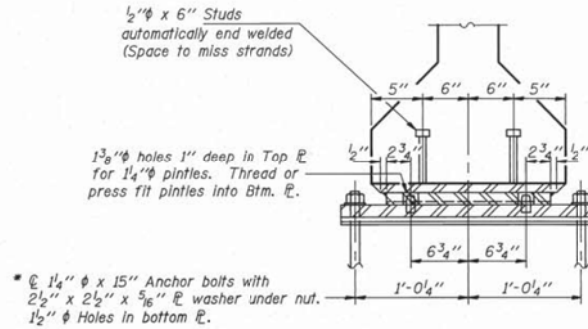
* Notes: After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place.
 Anchor bolts at fixed bearings may be built into the masonry or drilled and grouted in place after all beams have been erected.
 See sheet #23 of 31 for anchor bolt installation.
 Weight of Lead Plates, Anchor Bolts, nuts and washers, pintles and side retainers is included in "Structural Steel".



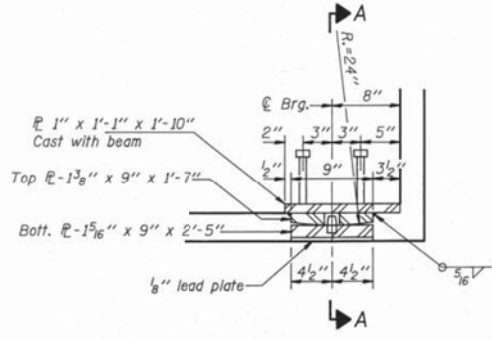
PINTLE



PLAN OF TOP & BOTTOM PLATES



SECTION A-A



SECTION AT E. ABUT.

FIXED BEARING

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	14

BEARING DETAILS

F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
 SECTION (50-2) HB-2
 STATION 613+50.85
 LaSALLE COUNTY
 STRUCTURE NUMBERS 050-0228 & 0229

TENNEY PAVONI ASSOCIATES, INC.
 CONSULTING ENGINEERS

DESIGNED D.A.B.	CHECKED M.C.B.
DRAWN D.A.B.	DATE 7-9-93
	NO. 310

FOR
 INFORMATION
 ONLY

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QUIGG ENGINEERING INC

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	DRAWN -	REVISED -
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PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

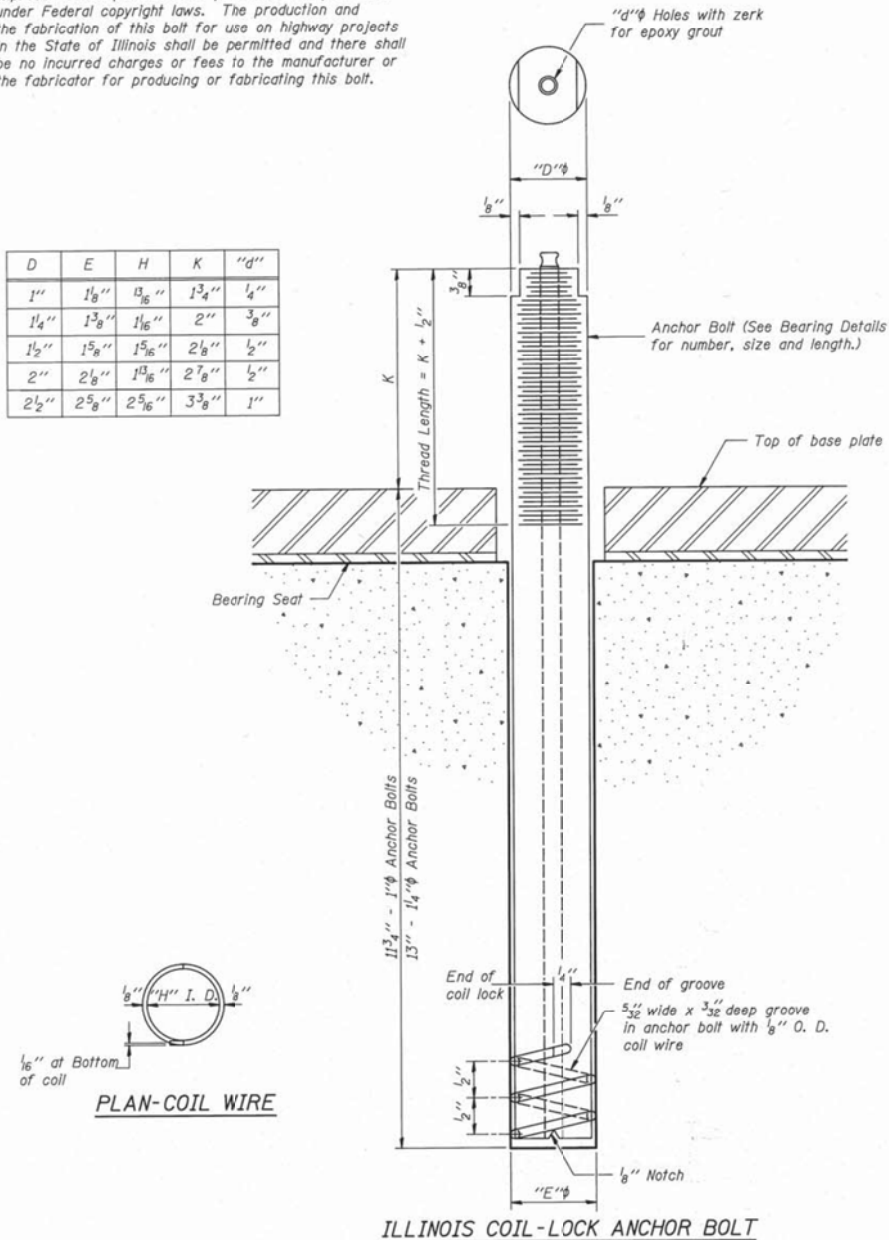
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
 STRUCTURE NO. 050-0228/0229

SCALE: SHEET 22 OF 30 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	227
				CONTRACT NO. 66H21
		ILLINOIS	FED. AID PROJECT	

D	E	H	K	"d"
1''	1 ₈ ''	1 ₁₆ ''	1 ₃ ''	1 ₄ ''
1 ₄ ''	1 ₈ ''	1 ₁₆ ''	2''	3 ₈ ''
1 ₂ ''	1 ₈ ''	1 ₁₆ ''	2 ₈ ''	1 ₂ ''
2''	2 ₈ ''	1 ₁₆ ''	2 ₇ ''	1 ₂ ''
2 ₂ ''	2 ₈ ''	2 ₁₆ ''	3 ₈ ''	1''



The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A519, Grade 1026 and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.

The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes in accordance with the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer conforming to ASTM A307.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or in accordance with the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

The anchor bolts, furnished and installed including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

SHEET 23 OF 31
*(50-2)HBR-1, HB-2, BR

**ANCHOR BOLT DETAILS
FOR BEARINGS**

F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
STATION 150+21HS-2
STATION 613+50.85
LOSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

TENNEY PAVONI ASSOCIATES, INC.
CONSULTING ENGINEERS

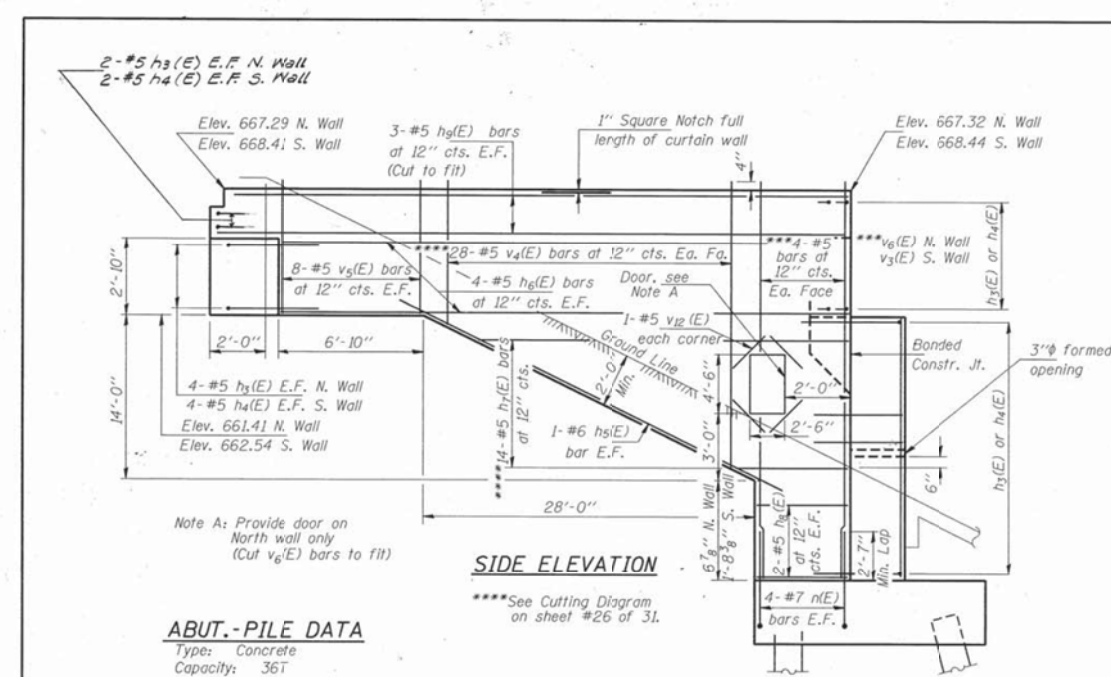
DESIGNED D.A.B.	CHECKED M.C.B.
DRAWN D.A.B.	DATE 7-9-93
	NO. 310

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0228/0229

SCALE:	SHEET 23 OF 30 SHEETS	STA.	TO STA.
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)-1	LASALLE	328	228
		CONTRACT NO. 66H21		
ILLINOIS		FED. AID PROJECT		



ABUT.-PILE DATA

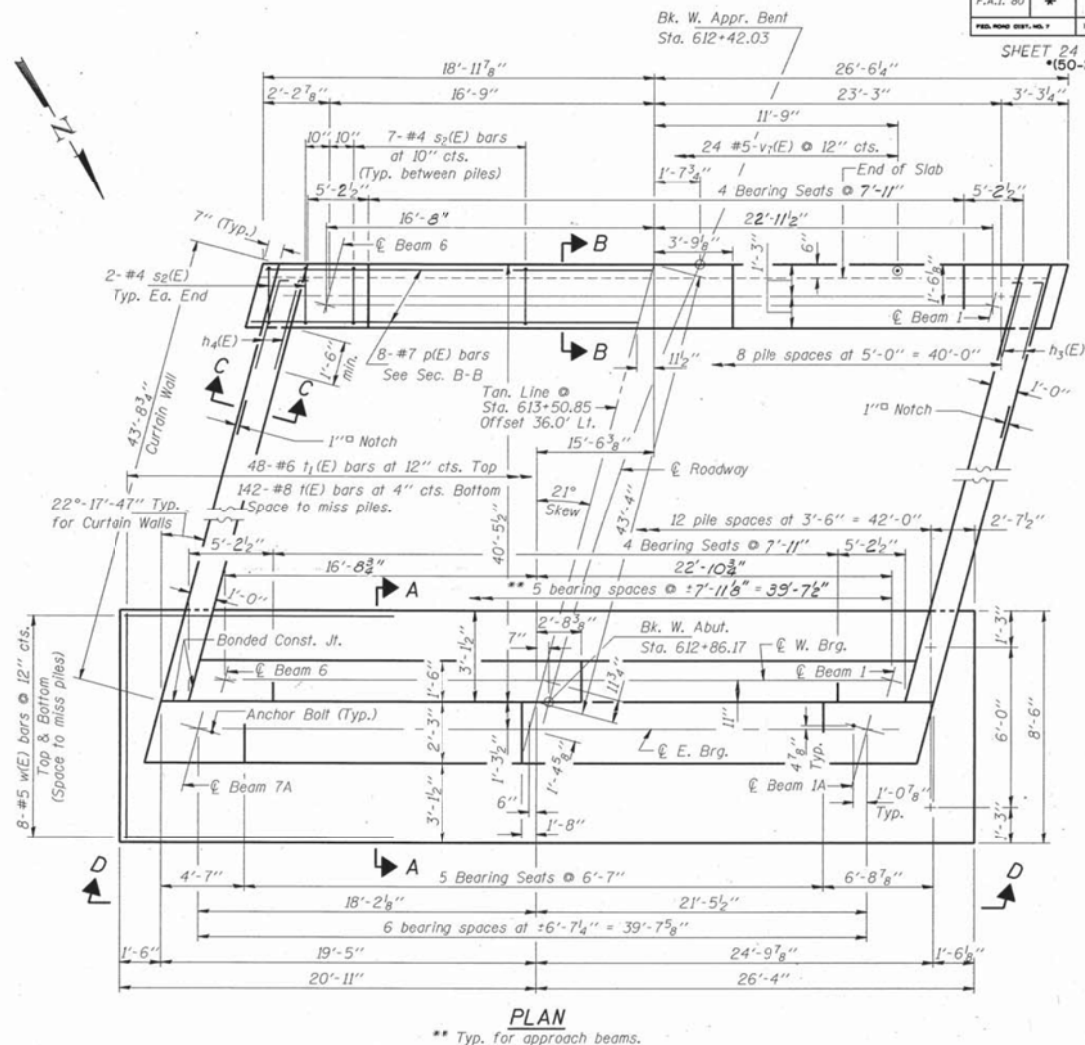
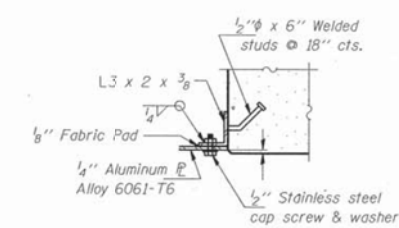
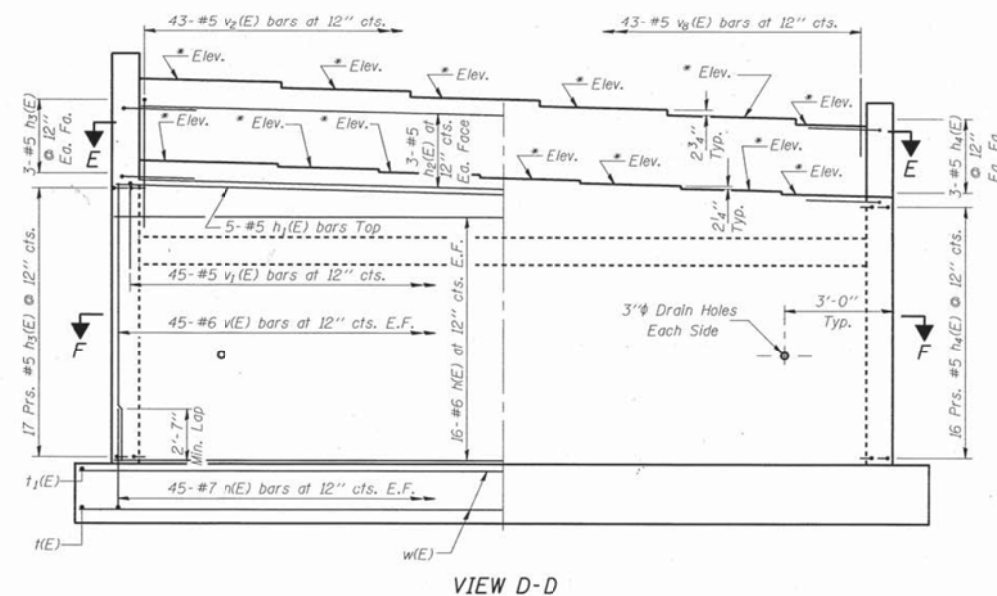
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Capacity: 36T
Est. Length: 36'
No. Req'd.: 25 + 1 Test Pile

APPR. BENT-PILE DATA

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Capacity: 33T
Est. Length: 45
No. Req'd.: 9

* SEAT ELEVATIONS

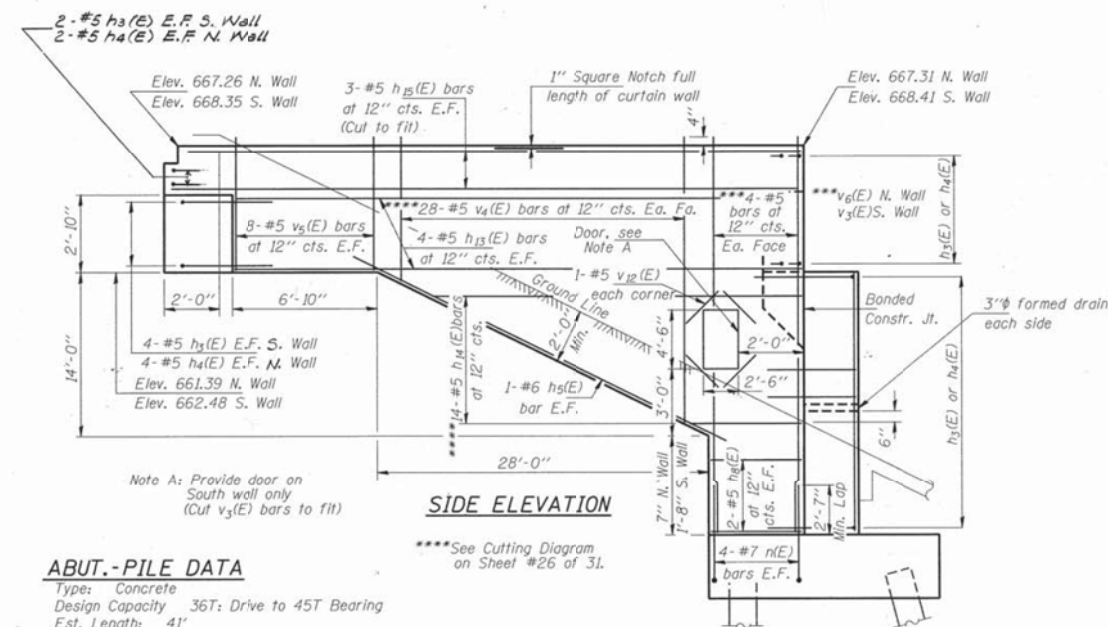
BEAM	1A	2A	3A	4A	5A	6A	7A
E. Brq.	662.31	662.50	662.68	662.87	663.05	663.24	663.42
BEAM	1	2	3	4	5	6	
W. Brq.	664.28	664.51	664.73	664.96	665.18	665.40	
App. Brq.	664.25	664.47	664.70	664.92	665.15	665.37	



Notes: Space reinforcement in cap to miss anchor bolts.
Reinforcement bars designated (E) shall be epoxy coated.
See sheet #26 for Sections A-A, B-B, C-C, E-E and F-F.

WEST ABUTMENT W. BOUND LANES

F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

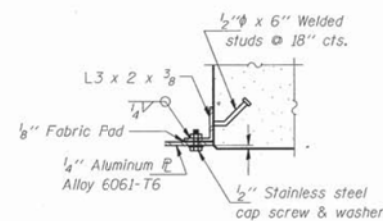
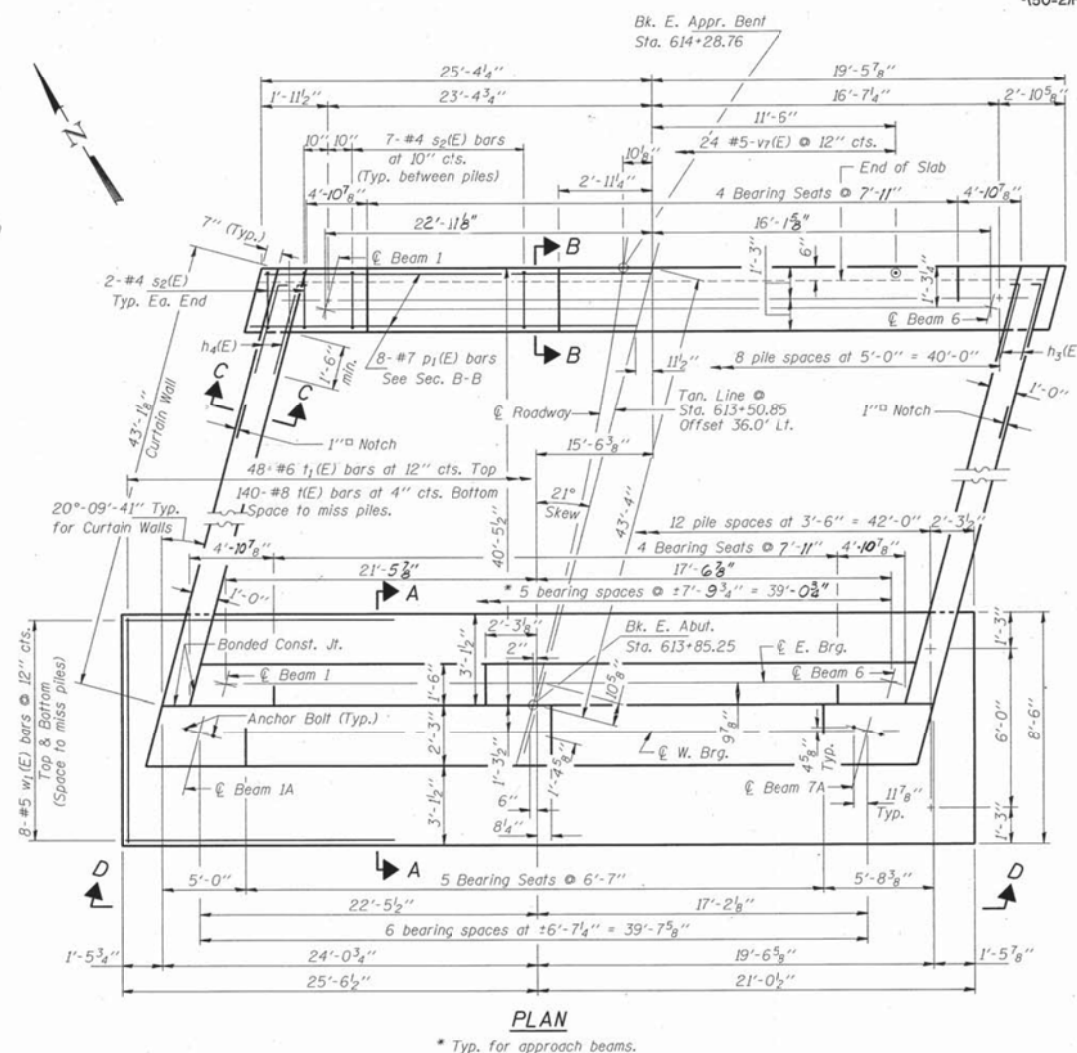
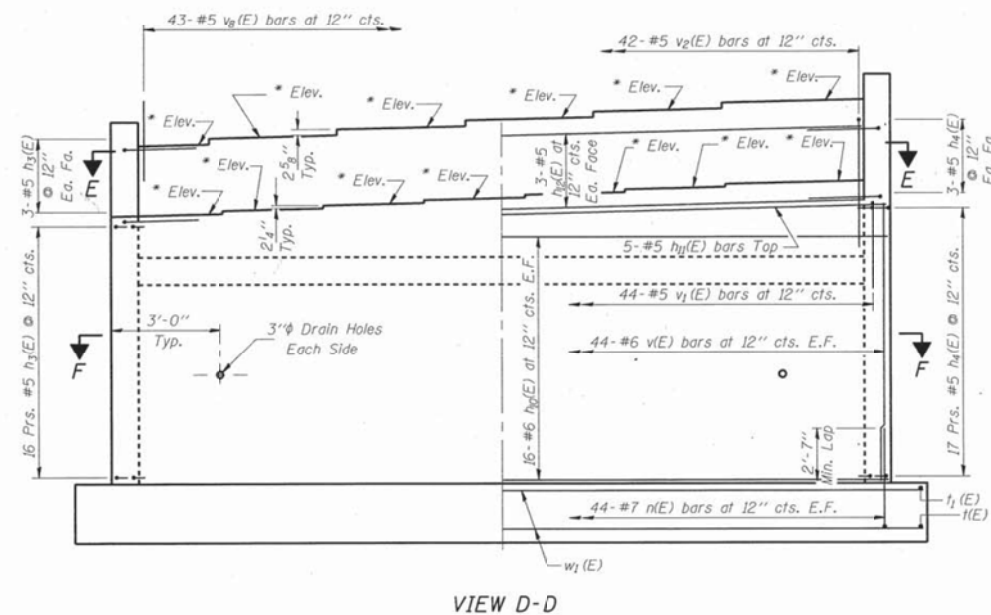


ABUT.-PILE DATA

ADDITIONAL DATA
Type: Concrete
Design Capacity 36T: Drive to 45T Bearing
Est. Length: 41'
No. Req'd: 26*1 Test Pile (Drive test pile to 68T Bearing)
NEAR THE EAST ABUTMENT AS
DIRECTED BY THE ENGINEER.

* SEAT ELEVATIONS

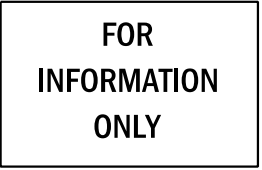
BEAM	1A	2A	3A	4A	5A	6A	7A
W. Brg.	662.45	662.64	662.82	663.00	663.18	663.37	663.55
BEAM	1	2	3	4	5	6	
E. Brg.	664.27	664.49	664.71	664.93	665.15	665.37	
App. Brg.	664.22	664.44	664.66	664.88	665.10	665.31	

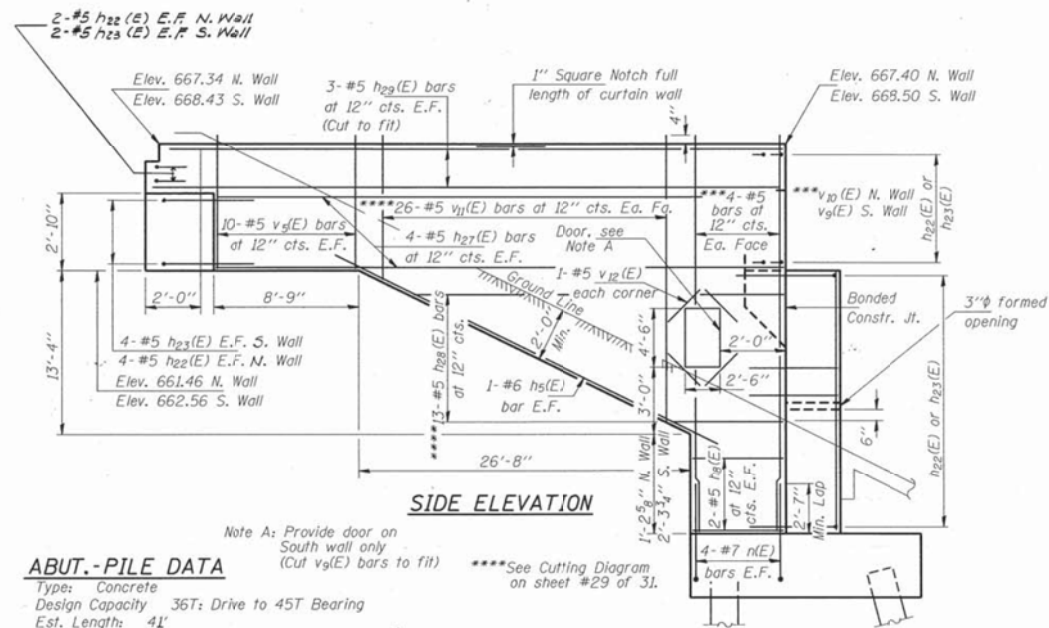


DOOR ELEVATION

DOOR ELEVATION
(Cost of door & frame is incidental)

EAST ABUTMENT W. BOUND LANES
F.A.I. 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229



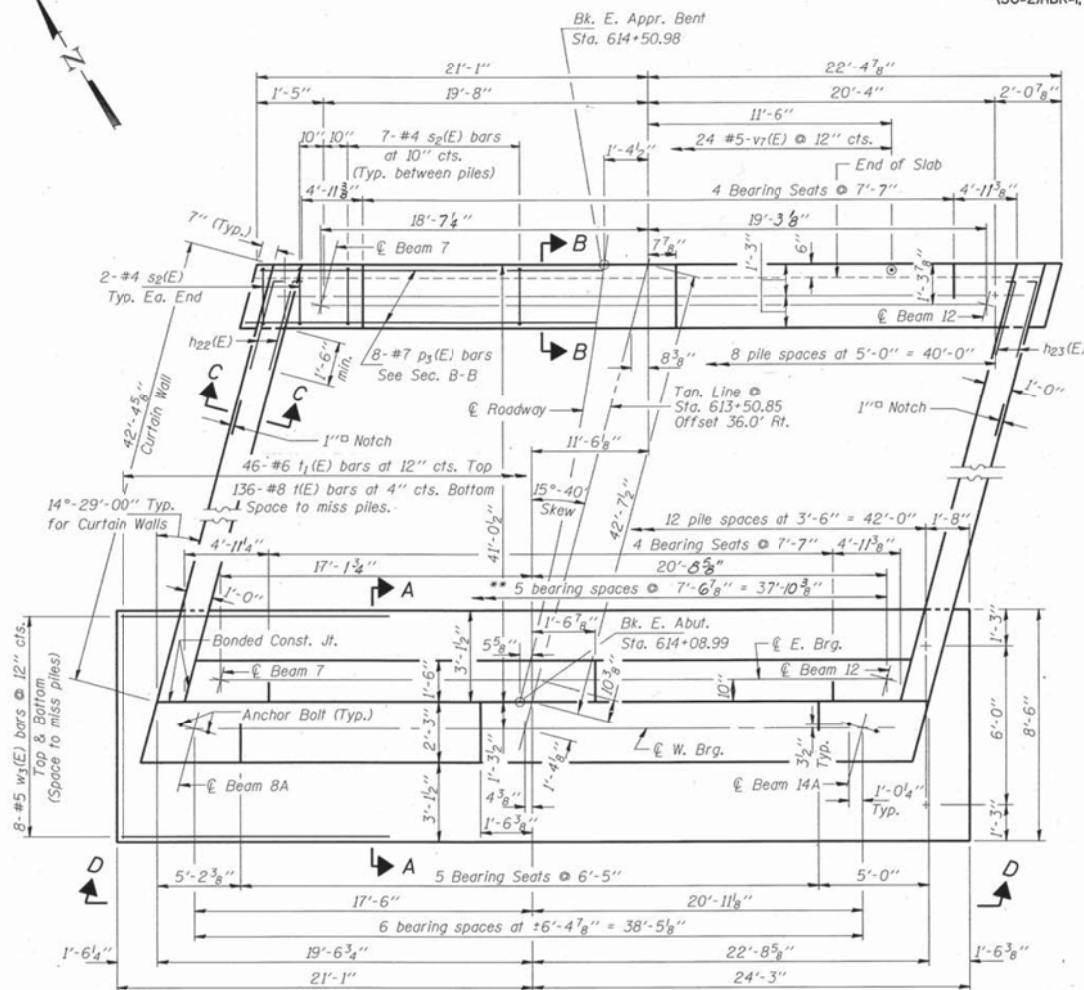
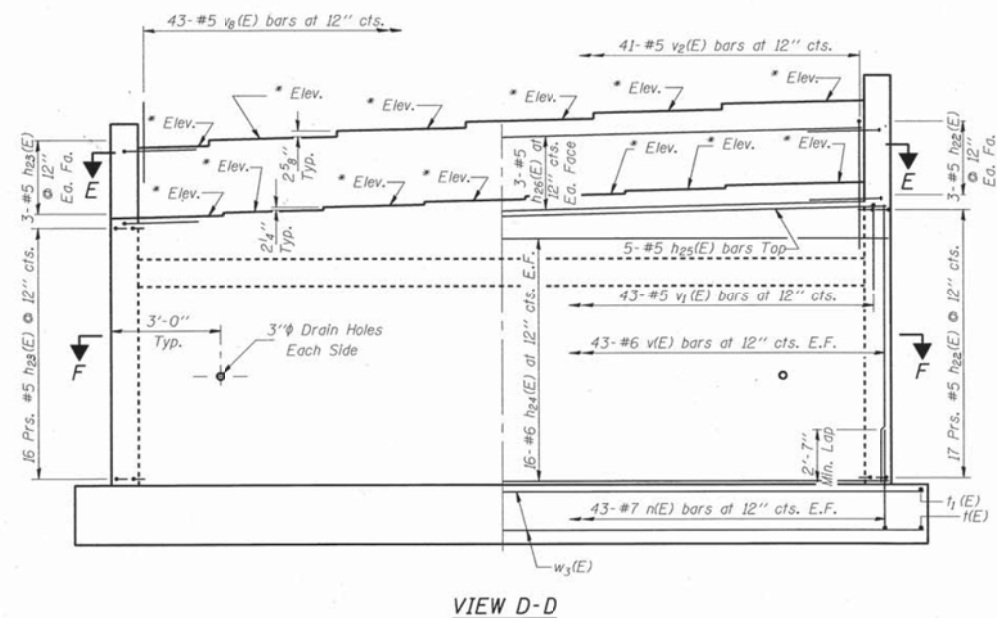


ABUT.-PILE DATA

Type: Concrete
 Design Capacity 36T: Drive to 45T Bearing
 Est. Length: 41'
 No. Req'd: 26 * 1 Test Pile (Drive test pile to 68T Bearing)
 NEAR THE EAST ABUTMENT AS
 DIRECTED BY THE ENGINEER.

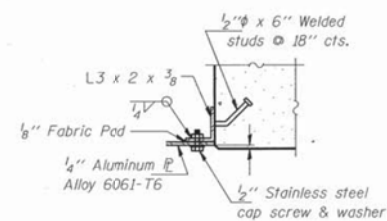
* SEAT ELEVATIONS

BEAM	8A	9A	10A	11A	12A	13A	14A
W. Brq.	662.55	662.74	662.92	663.10	663.29	663.47	663.65
BEAM	7	8	9	10	11	12	
E. Brq.	664.36	664.58	664.80	665.02	665.24	665.46	
App. Brq.	664.30	664.52	664.73	664.95	665.17	665.39	



PLAN

Notes: Space reinforcement in cap to miss anchor bolts.
Reinforcement bars designated (E) shall be epoxy coated.
See sheet #29 for Sections A-A, B-B, C-C, E-E and F-F.



SECTION G-G

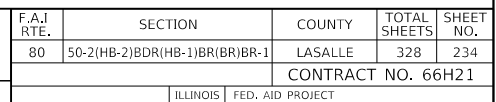
DOOR ELEVATION

(Cost of door & frame is incidental)

EAST ABUTMENT E. BOUND LANES

F.A.I.: 80 OVER F.A.U. 6081 (LaSalle RD.)
SECTION (50-2) HB-2
STATION 613+50.85
LaSALLE COUNTY
STRUCTURE NUMBERS 050-0228 & 0229

**FOR
INFORMATION
ONLY**

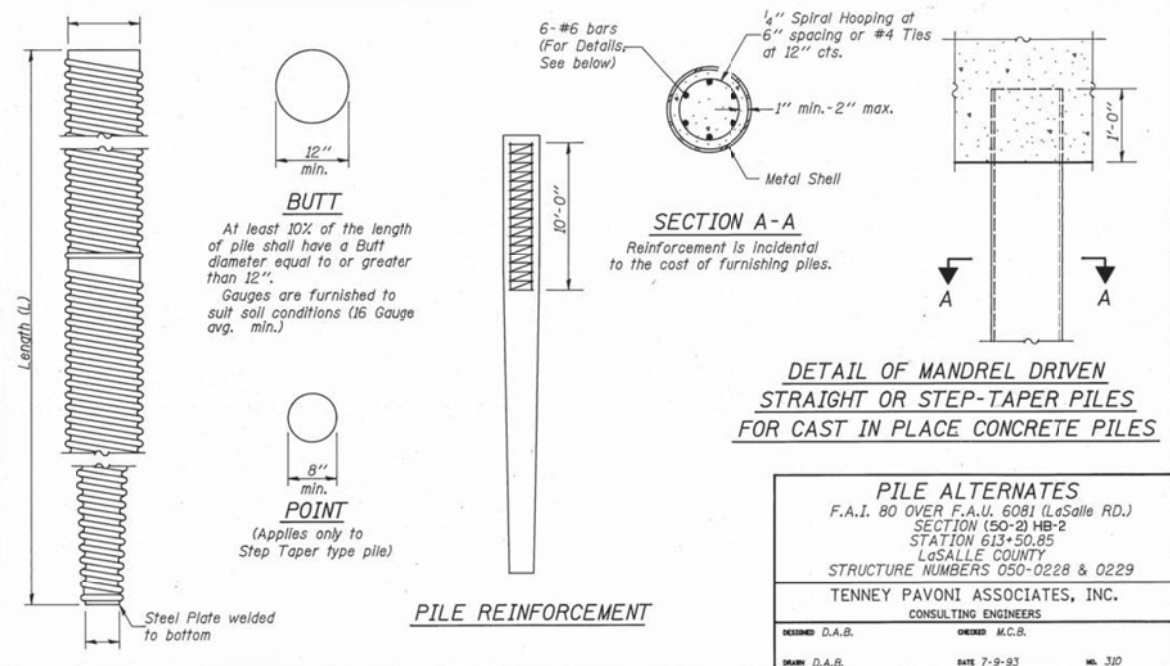
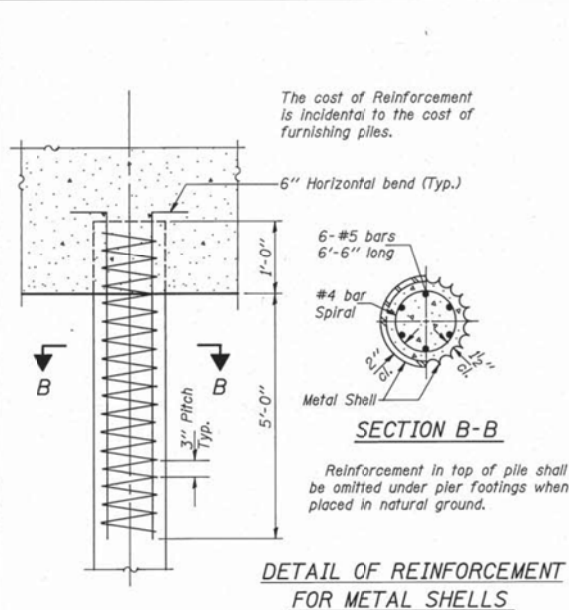
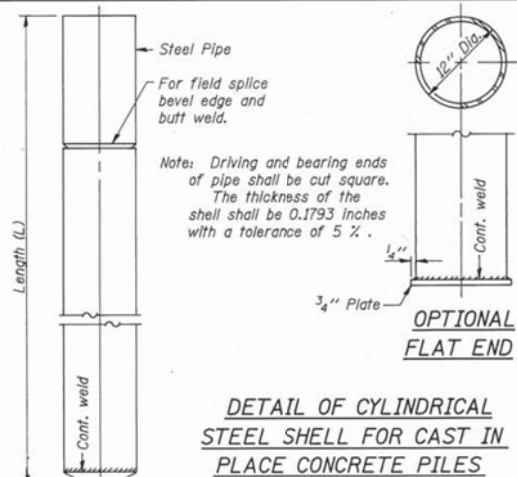
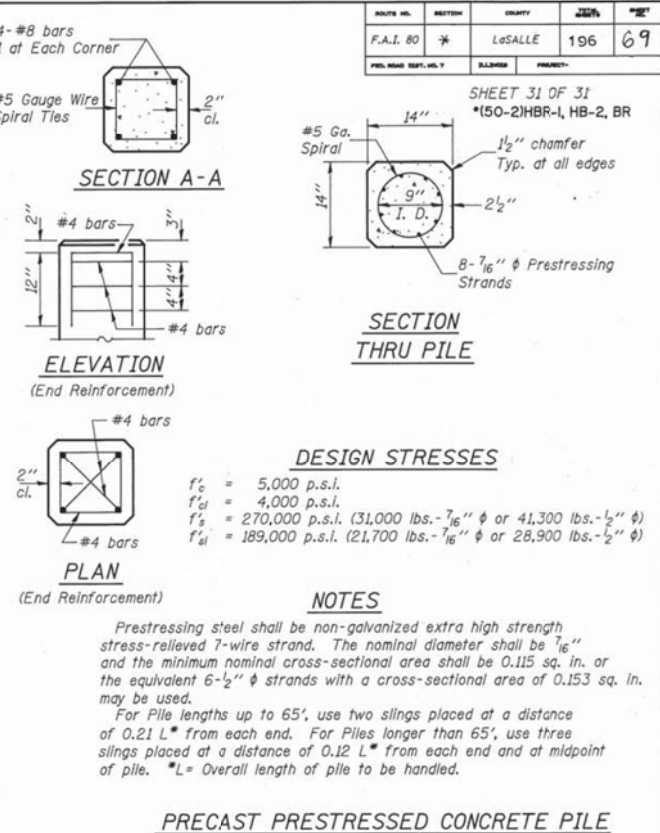
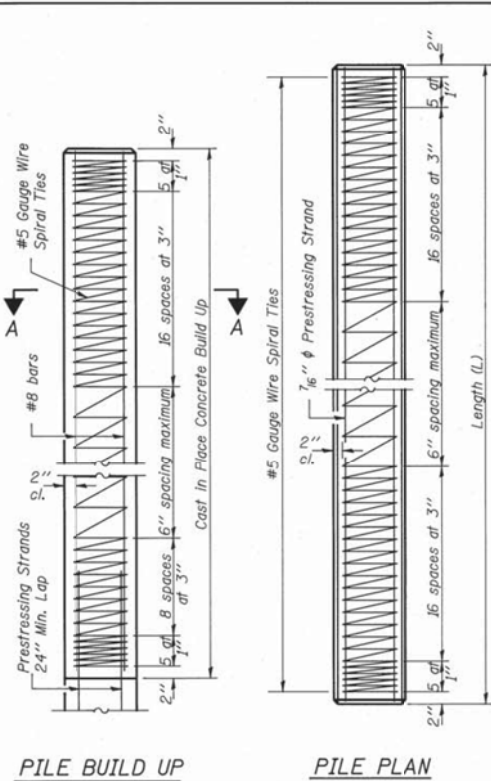
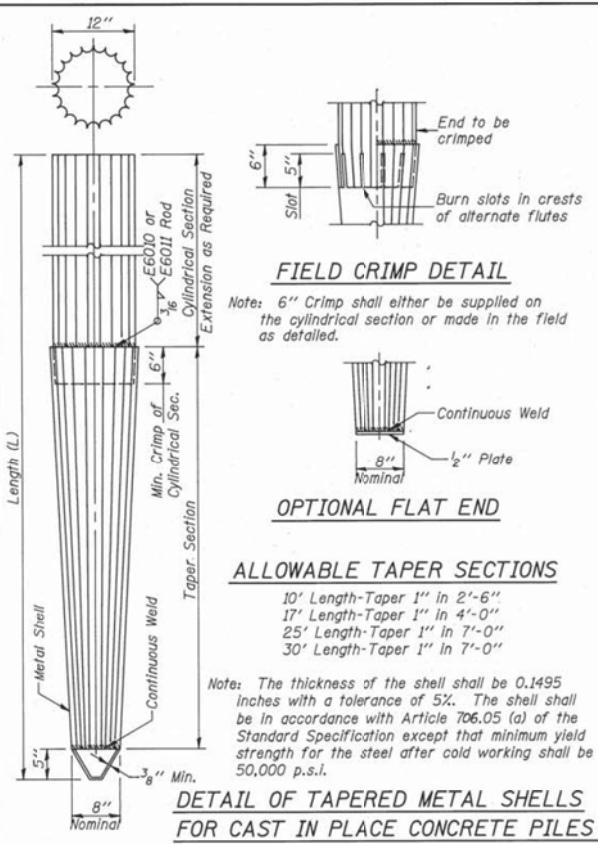
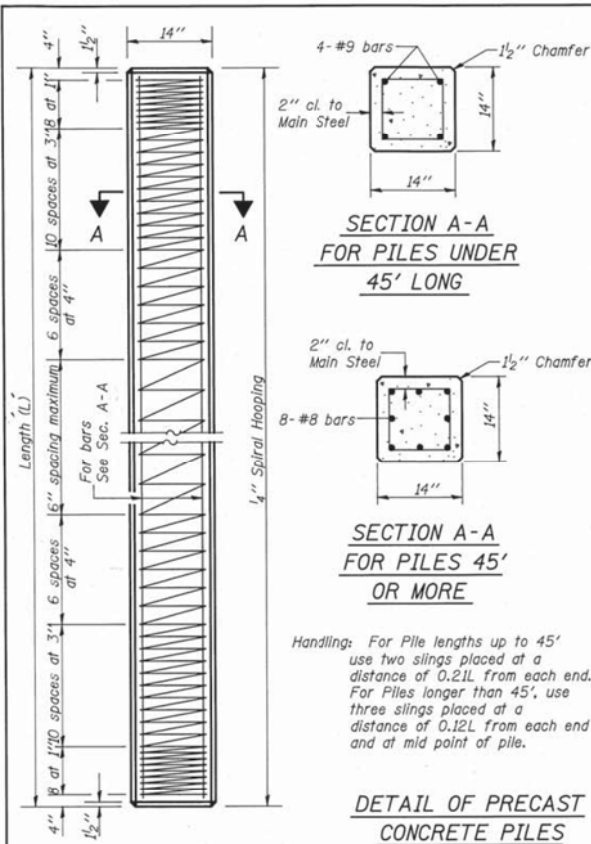


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PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE - 10/4/2019	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)-1	LASALLE	328	235
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

FOR
INFORMATION
ONLY



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL - AID INTERSTATE HIGHWAY

PLAN 1 INCH = 100 FT
PROFILE HOR 1 INCH = 100 FT
PROFILE VERT 1 INCH = 10 FT
CROSS-SECTIONS 1 INCH = 5 FT

F.A.I. ROUTE 80, SECTION 50-2VB & 50-2HB-1
PROJECT I-IG-80-3(35)77
LA SALLE COUNTY

SECTION	50-2VB	50-2HB-1
F.A.I. ROUTE	80	80
COUNTY	LA SALLE	65
SHEET NO.	65	1



1979 HIGHWAY CLASSIFICATION
SECTIONS 50-2VB & 50-2HB-1
1965-T-70

SECTION 50-2HB-1 INCLUDES-TWO PARALLEL REINFORCED CONCRETE GIRDER BRIDGES, CONSISTING OF ONE SPAN 45'-3" ON R.C. CLOSED ABUTMENTS AND RETAINING WALLS CARRYING F.A.I. ROUTE 80 OVER TOWNSHIP ROAD AT STATION 627+23.50, SURVEY LINE ON F.A.I. ROUTE 80.

SECTION 50-2HB-1 BEGINS
STA. 626+67.12
ON F.A.I. ROUTE 80.

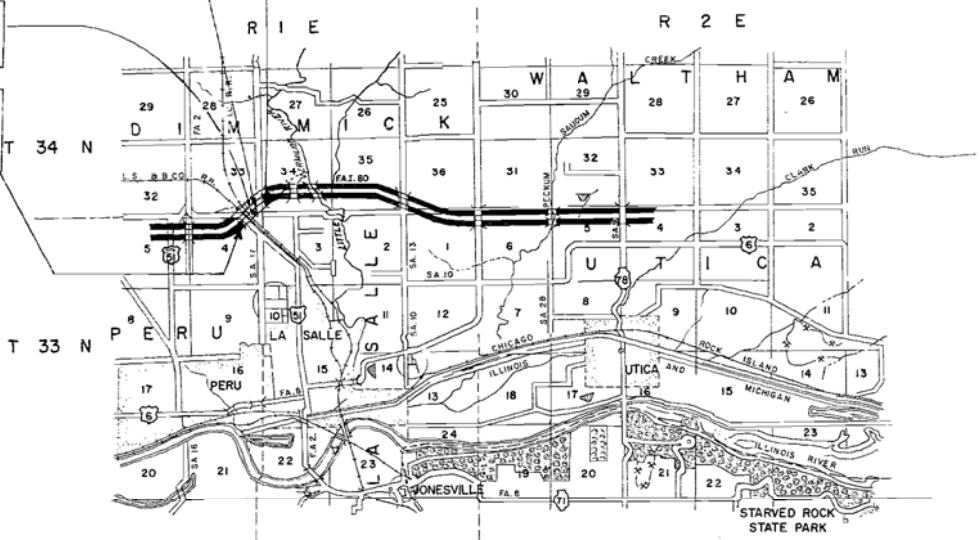
PROJECT ENDS
SECTION 50-2HB-1 ENDS
STA. 627+12.37
ON F.A.I. ROUTE 80.

SECTION 50-2VB ENDS
STA. 616+77.45
ON F.A.I. ROUTE 80.

PROJECT BEGINS
SECTION 50-2VB BEGINS
STA. 612+75.23
ON F.A.I. ROUTE 80.

SECTION 50-2VB INCLUDES-TWO PARALLEL PRECAST PRESTRESSED CONCRETE I-BEAM BRIDGE, CONSISTING OF ONE 6-SPAN BRIDGE AND ONE 7-SPAN BRIDGE ON R.C. OPEN PIERS AND PILE BLOCK ABUTMENTS CARRYING F.A.I. ROUTE 80 OVER U.S. ROUTE 51, THE LA SALLE BUREAU COUNTY RAILROAD AND THE ILLINOIS CENTRAL RAILROAD AT STATION 614+15, SURVEY LINE ON F.A.I. ROUTE 80.

OMISSION FROM PROJECT
STA. 616+77.45 to 626+67.12



March 20, 61
W. B. Bayman

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
March 20, 61
March 20, 61
March 20, 61
March 20, 61

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER DATE

Job No 20824

NET LENGTH OF PROJECT 447.47 FT. = 0.085 MILE

LA SALLE COUNTY SECTION 50-2VB F.A.I. ROUTE 80 50-2HB-1

FOR
INFORMATION
ONLY



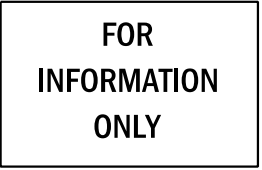
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	DRAWN -	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-00030004

SCALE: SHEET 1 OF 10 SHEETS STA. TO STA.

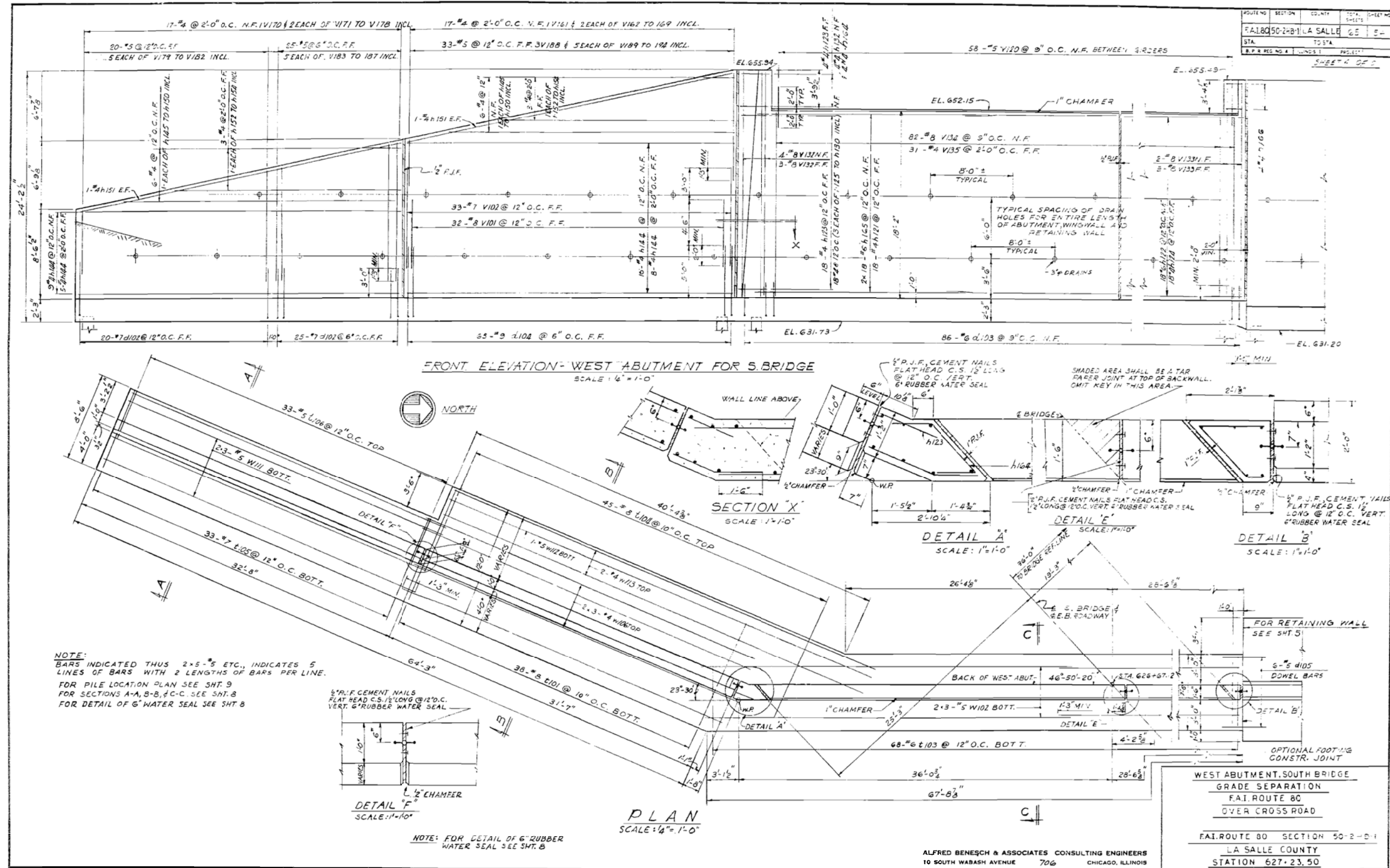
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	236
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				



MODEL: Default
FILE NAME: \\quigg\projects\2018\181018_Various Structure IDOT D3 Barnesworth PTB 161-21\Work Order 14 - 1430 Roadway and other\CADD\CADD Sheets\Existing Bridge Plans 0226-0229 034.dgn
DATE: 10/2/2019

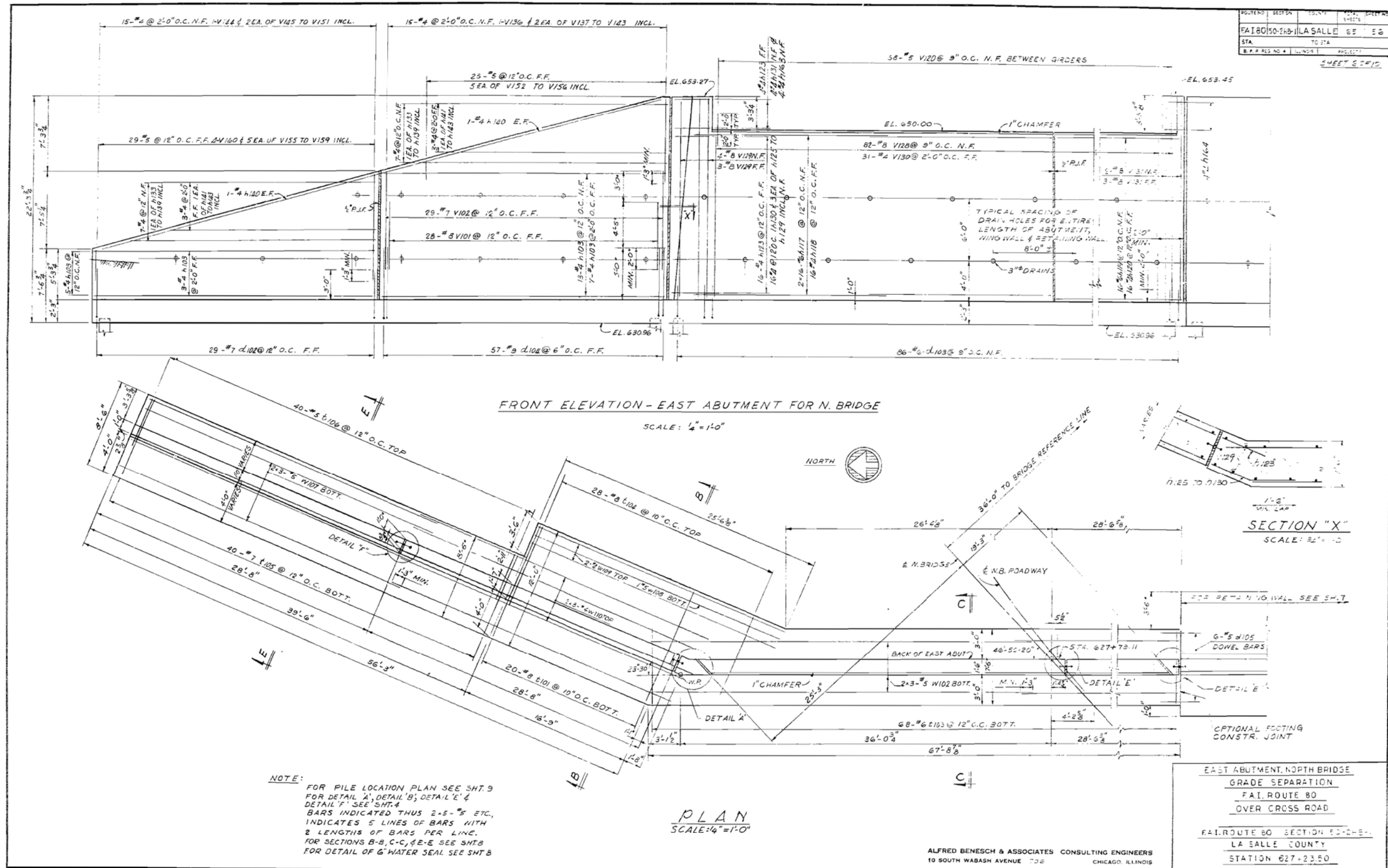
USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE = 10/4/2019	REVISED -

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	239
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				



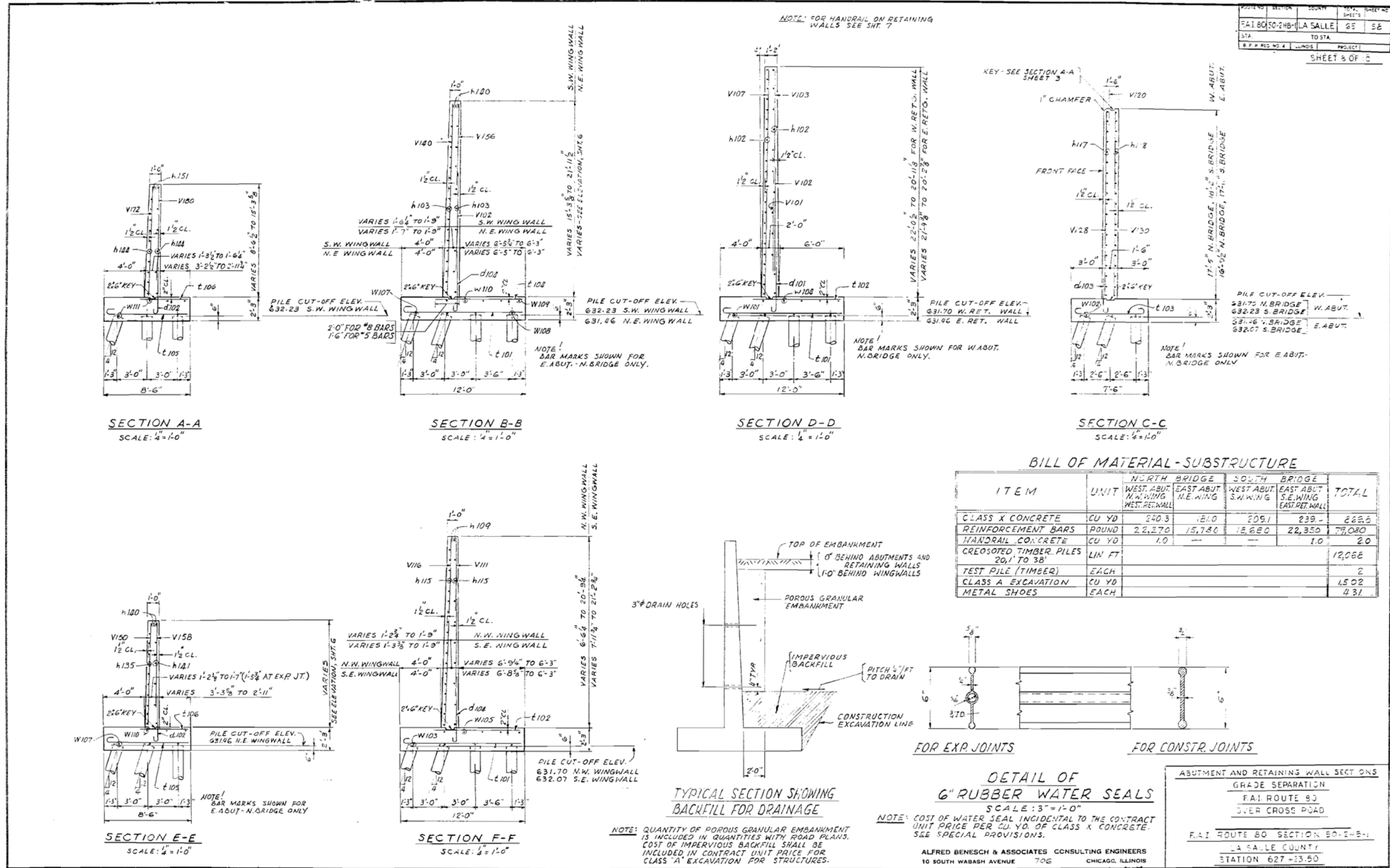
FOR
INFORMATION
ONLY

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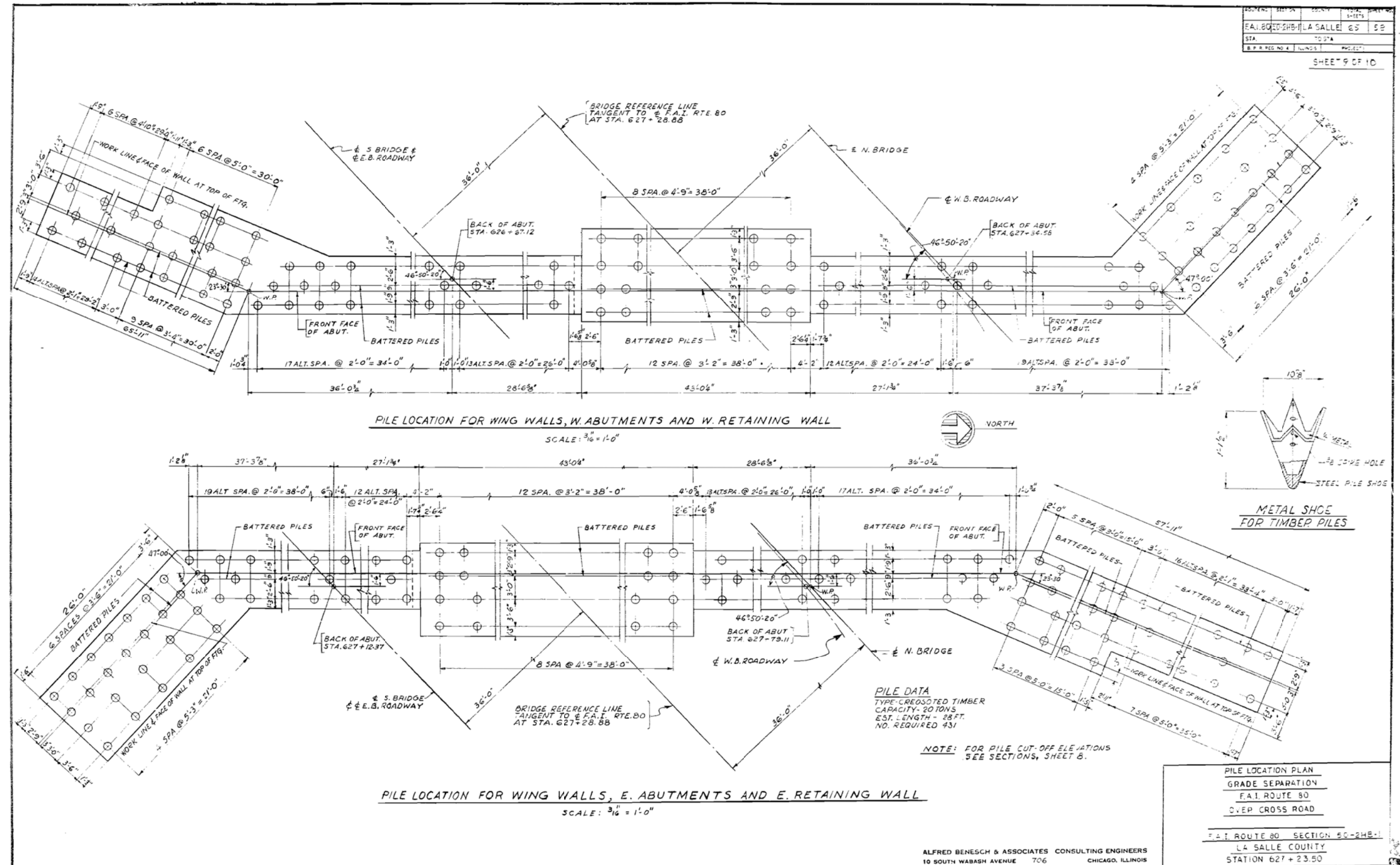


FOR
INFORMATION
ONLY

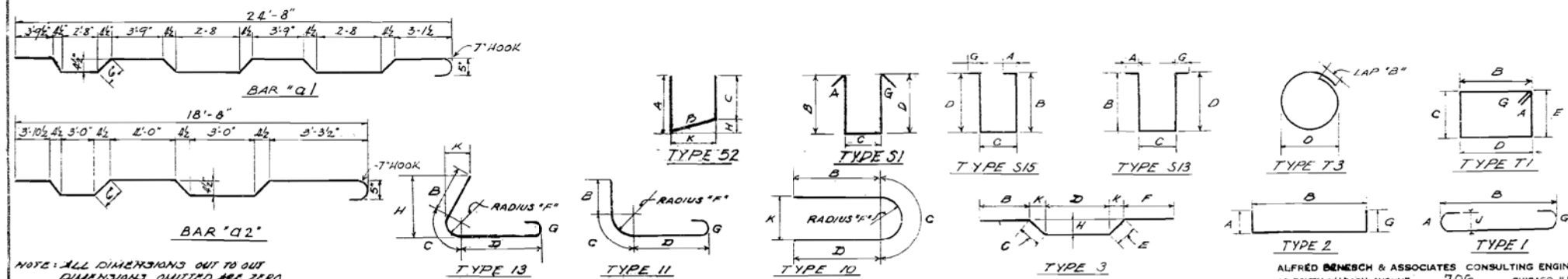
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DATE: 10/2/2019



FOR
INFORMATION
ONLY



FOR
INFORMATION
ONLY

[illegible]

BAR REINFORCEMENT LISTS
GRADE SEPARATION
F.A.I. ROUTE 50
OVER CROSS ROAD

FA.I. ROUTE 80 SECTION 50-24B-1
LA SALLE COUNTY
STATION 627+23.50

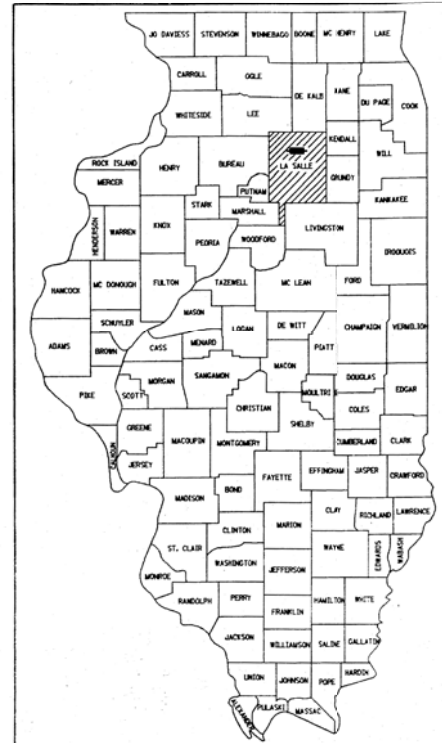
ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE 706 CHICAGO ILLINOIS

FOR
INFORMATION
ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISIONS OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
F.A.I. ROUTE 80
SECTION (50-2) HBR-1
LASALLE COUNTY

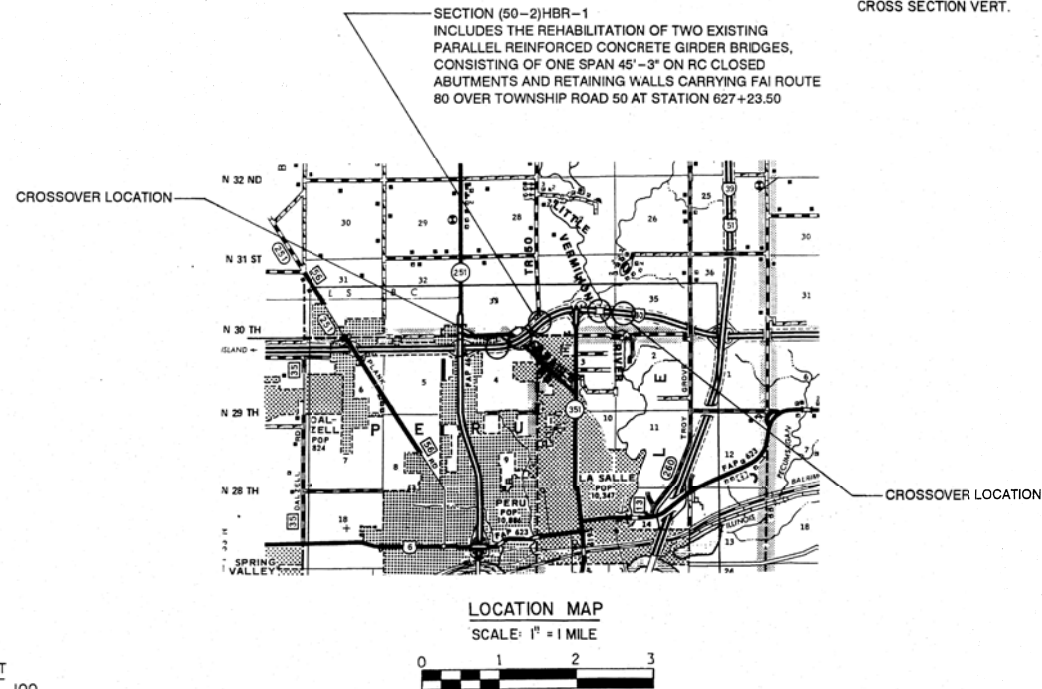
SECTION (50-2)HBR-1 : I 80 OVER TR 50
94 COVER SHEET
95 TOTAL BILL OF MATERIALS
96 TYPICAL SECTION & PLAN VIEW
97 TOP OF DECK REPAIR PLAN
98 GUARDRAIL PLAN & DETAILS
99 LONGITUDINAL JOINT & TAPER DETAILS
100-101 ABUTMENT, RETAINING WALL, & WINGWALL REPAIR PLAN

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	94
* (50-2) HBR-1, HB-2, BR				
D-93-098-92				
P-93-021-90				



LOCATION OF SECTION INDICATED THUS:

1994 A.D.T. 20700
P.V. = 60.6% SU. = 4.0% N.U. = 35.4 %
DESIGN DESIGNATION : INTERSTATE



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

JULIE 1-800-892-0123

DISTRICT 3 NO. (815) 434-6131

SECTION (50-2)HBR-1, HB-2
PROJECT ENGINEER: WAYNE ALDRICH
UNIT CHIEF: MIKE PUBENTZ

TOWNSHIPS: DIMMICK

LASALLE COUNTY SECTION: (50-2) HBR-1, HB-2, BR ROUTE: F.A.I. ROUTE 80

FOR
INFORMATION
ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

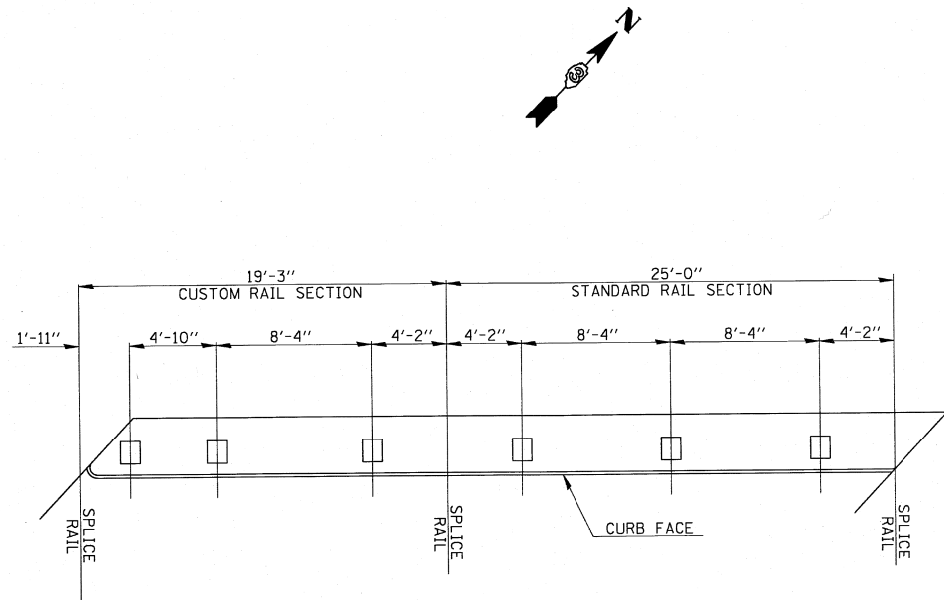
EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-00030004

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	246
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

USER NAME = mwilson	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

MODEL Default
FILE Name: \\quigg\projects\2018\181018_Various Structure IDOT D3 Earsworth PTB 161-21\Work Order 14 - I-80 Roadway and otherCADD\CADD Sheets\Existing Bridge Plans 0228-0229 003.dgn

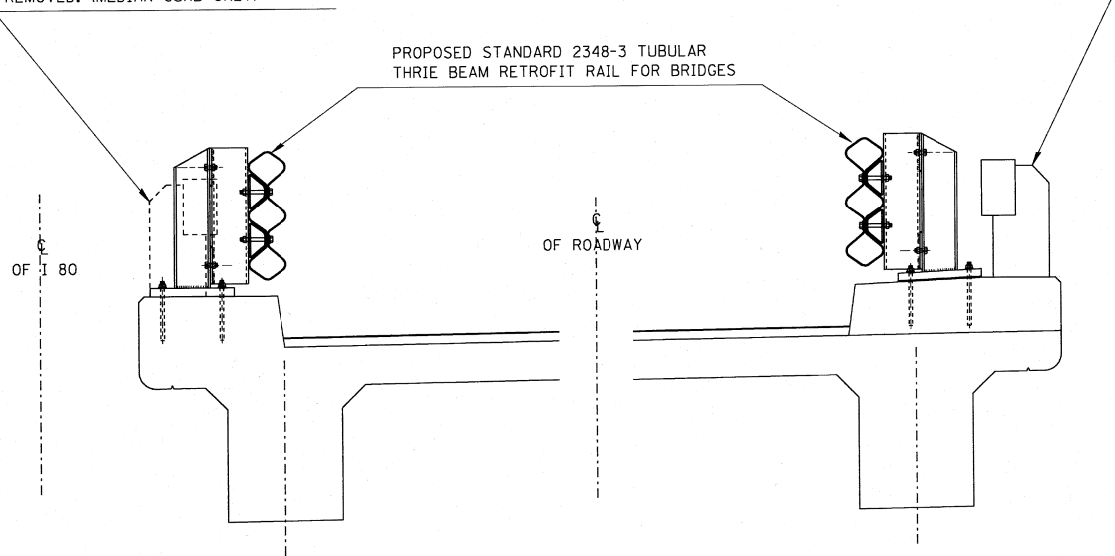


POST SPACING FOR TUBLAR
THRIE BEAM RETROFIT RAIL

EXISTING STANDARD 2070 R.B. TYPE 3
REINFORCED CONCRETE HANDRAIL TO BE
REMOVED. (MEDIAN CURB ONLY)

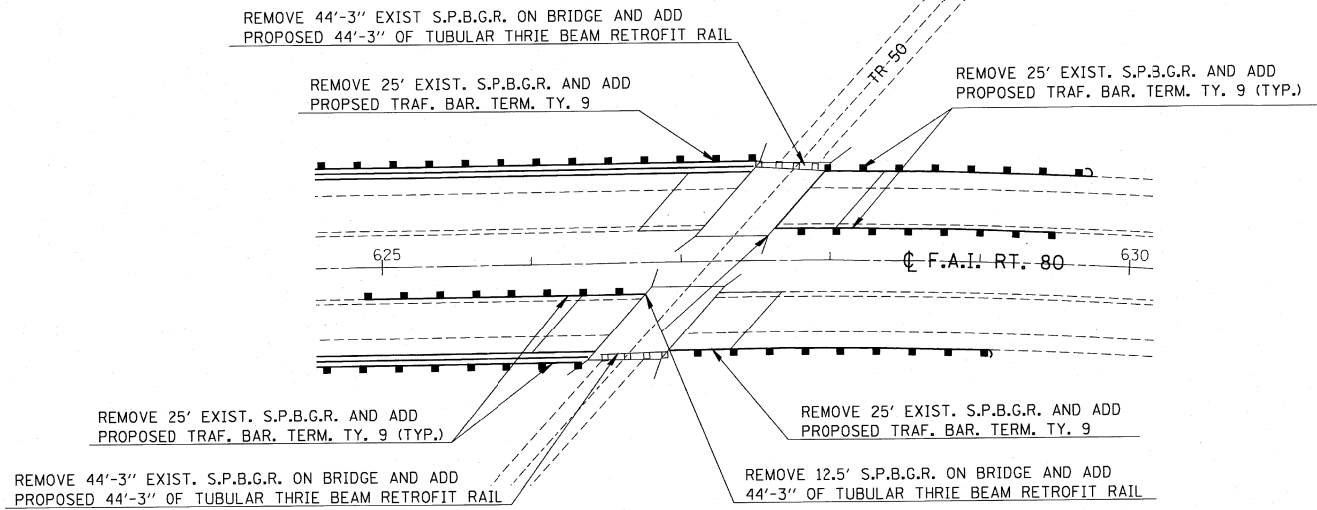
EXISTING STANDARD 2070 R.B. TYPE 3
REINFORCED CONCRETE HANDRAIL TO REMAIN.

PROPOSED STANDARD 2348-3 TUBULAR
THRIE BEAM RETROFIT RAIL FOR BRIDGES



DETAIL B

DETAIL A



GUARDRAIL LOCATION
PLAN VIEW

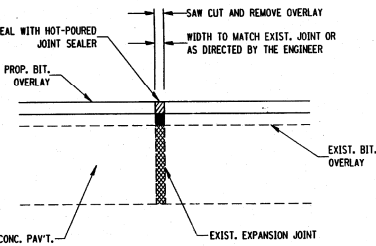
F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
80	*	LASALLE	196	98
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (50-2)HBR-1, HB-2, BR				

ILLINOIS DEPARTMENT OF TRANSPORTATION
BILL OF MATERIALS

ITEM	UNIT	TOTAL QUANTITIES
TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES	FOOT	177.0
STEEL PLATE BEAM GUARDRAIL REMOVAL	FOOT	263.5
TRAFFIC BARRIER TERMINAL TYPE 9	EACH	6.0
GUARDRAIL REFLECTORS	EACH	7.0
CONCRETE REMOVAL (MEDIAN CONCRETE HANDRAIL)	CU YD	2.2

TUBULAR THRIE BEAM
BILL OF MATERIALS

ITEM	UNIT	QUANTITIES
POSTS	EACH	24
SPLICE RAILS	EACH	12
STANDARD (25') TUBULAR THRIE BEAM	EACH	4
CUSTOM LENGTHS OF 19'-3" THRIE BEAM	EACH	4



EXPANSION JOINT REHABILITATION DETAIL

GENERAL NOTES:

1. THE NEW BITUMINOUS OVERLAY SHALL BE SAWED, REMOVED, AND THE JOINT AREA CLEANED, PRIOR TO PLACING THE HOT-POURED JOINT SEALER THE JOINT SHALL BE BLOWN OUT WITH COMPRESSED AIR.
2. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPANSION JOINT REHABILITATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE REHABILITATION
FAI ROUTE 80
SECTION (50-2)HBR-1
LASALLE COUNTY
STA 627+23.50

SCALE: VERT. DRAWN BY
HORIZ. CHECKED BY
DATE

FOR
INFORMATION
ONLY



QUIGG ENGINEERING INC

USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
DATE = 10/4/2019	DATE -	REVISED -

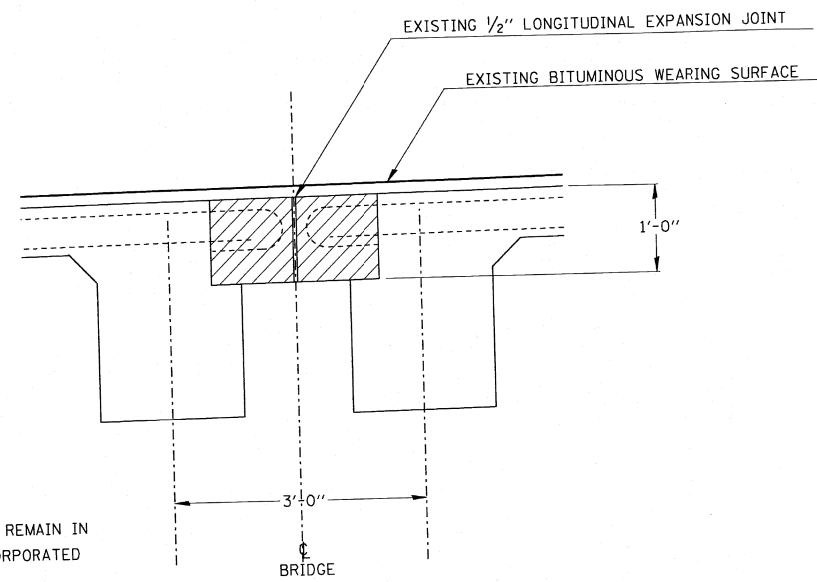
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-00030004

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

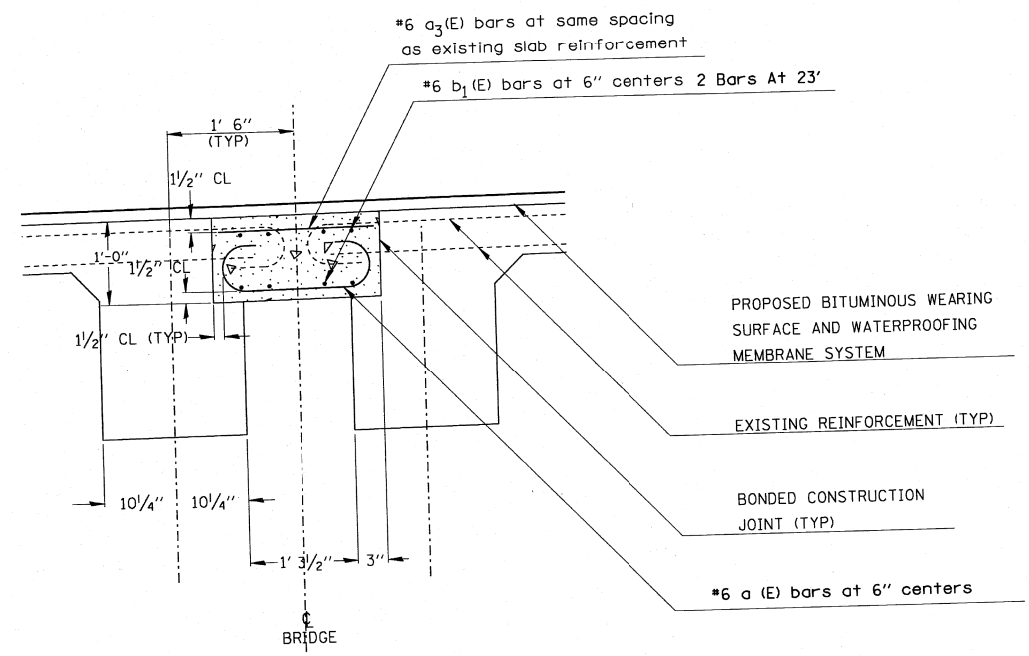
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	248
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

F. & RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	99
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (50-2)HBR-1, HB-2, BR				

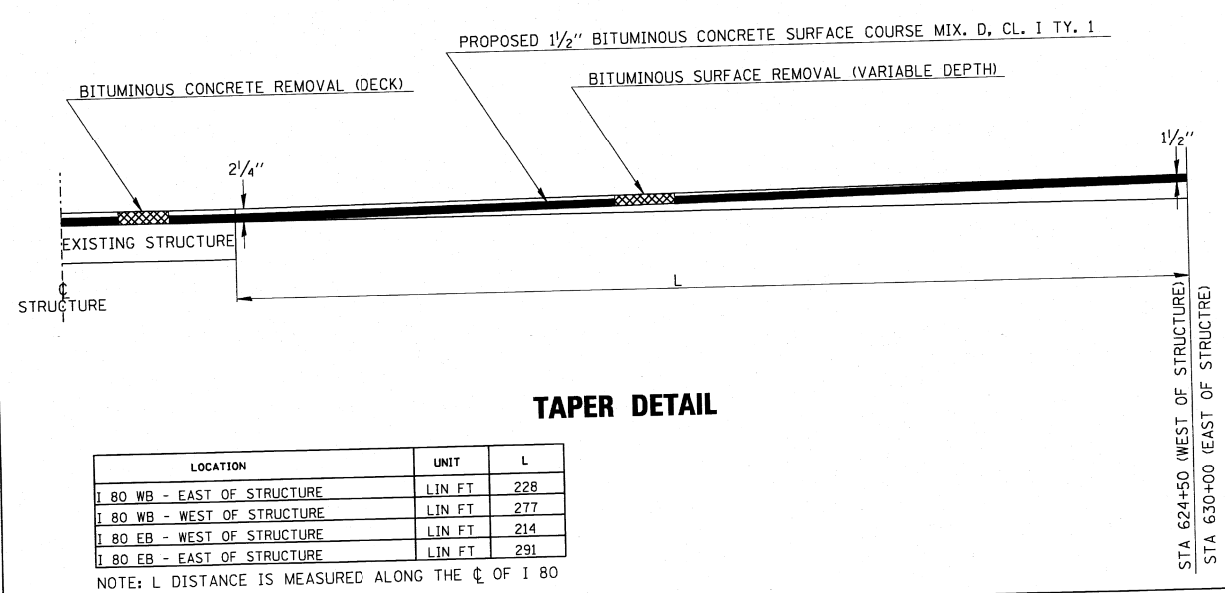


NOTE: EXISTING REINFORCEMENT TO REMAIN IN PLACE SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONCRETE.

EXISTING LONGITUDINAL JOINT CROSS SECTION



PROPOSED LONGITUDINAL JOINT CROSS SECTION



LOCATION	UNIT	L
I 80 WB - EAST OF STRUCTURE	LIN FT	228
I 80 WB - WEST OF STRUCTURE	LIN FT	277
I 80 EB - WEST OF STRUCTURE	LIN FT	214
I 80 EB - EAST OF STRUCTURE	LIN FT	291

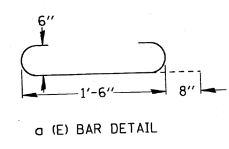
NOTE: L DISTANCE IS MEASURED ALONG THE CL OF I 80

TAPER DETAIL

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
a (E)	88	6	2'-10"	U
a3 (E)	88	6	1'-0"	U
b1 (E)	16	6	23'-0"	U
REINFORCEMENT BARS EPOXY COATED			LBS	1060



REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STRUCTURE REHABILITATION

FAI ROUTE 80

SECTION (50-2)HBR-1

LASALLE COUNTY

STA 627 + 23.50

SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

FOR INFORMATION ONLY

MODEL Default
FILE Name: \\quigg\projects\2018\181018_Various Structure IDOT D3 Sarsaworth PTB 161-2-11\Work Order 14 - I-80 Roadway and other CADD\CADD Sheets\Existing Bridge Plans 0228-0229 004.dgn



USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
DATE = 10/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-00030004

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

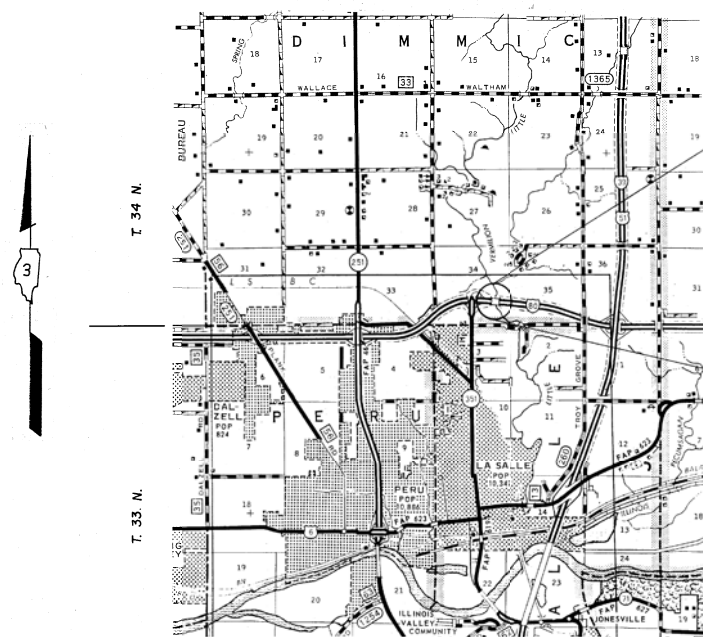
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	249
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

- SECTION (50-2)BR : I 80 OVER LITTLE VERMILION RIVER
- 102 COVER SHEET
 - 103 TYPICAL SECTIONS
 - 104 DETAILS, GENERAL NOTES, AND PRE-STAGE I TYPICAL SECTION
 - 105-107 SCHEDULE OF QUANTITIES (EASTBOUND)
 - 108-110 SCHEDULE OF QUANTITIES (WESTBOUND)
 - 111-113 STAGE II PLAN & PROFILE (EASTBOUND)
 - 114-116 STAGE I PLAN & PROFILE (WESTBOUND)
 - 117-119 FINAL APPROACH GUARDRAIL & BARRIER LAYOUT
 - 120 BRIDGE APPROACH PAVEMENT LAYOUT
 - 121 INLET BOX SPECIAL
 - 122 REINFORCED CONCRETE HEADWALL WITH DROP
 - 123 TRAFFIC BARRIER TERMINAL, TYPE 11 (SPECIAL)
 - 124 MISCELLANEOUS DETAILS
 - 125-126 BRIDGE REPAIR PLAN (SN 050-0005 - EASTBOUND)
 - 127-173 BRIDGE PLANS (SN 050-0220 & SN 050-0221)
 - 174-179 EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
 - 180-194 ROADWAY CROSS SECTIONS
 - 195-196 CHANNEL CROSS SECTIONS

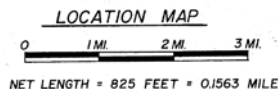
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISIONS OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

F.A.I. ROUTE 80 (I-80)
SECTION (50-2)BR
LASALLE COUNTY

PROJECT
C-93-039-95



R. I. E. of the 3rd P.M.



NET LENGTH = 825 FEET = 0.1563 MILE

SECTION (50-2)BR
BEGINS AT STA. 668+50

SECTION (50-2)BR
INCLUDES THE CONSTRUCTION OF TWO
PARALLEL 4-SPAN BULB-T BRIDGES
WITH SPILL-THRU ABUTMENTS AND
REINFORCED CONCRETE PIERS.

WEST BOUND STRUCTURE:
STA. 672+09.32
SKEWED 8° RIGHT AHEAD
442'-8" BK.-BK. ABUTMENTS

EAST BOUND STRUCTURE:
STA. 672+19.43
SKEWED 8° RIGHT AHEAD
442'-5 1/2" BK.-BK. ABUTMENTS

SECTION (50-2)BR
ENDS AT STA. 676+75

39783
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS
June 20, 1994
(License Expires 11-30-94)

PLANS PREPARED BY:

Wendler Engineering
& Surveying

DIXON, ILLINOIS
DEKALB, ILLINOIS
PRINCETON, ILLINOIS

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ENGINEER DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	102
* (50-2)HBR-1, HB-2, BR				
P-93-022-90				
D-93-033-93				



LOCATION OF SECTION INDICATED THUS: ■■■■

3190 (05) INTERSTATE HIGHWAY

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

JULIE 1-800-892-0123

DISTRICT 3 NO. (815) 434-6131

PROJECT ENGINEER: LYLE SCHAUB
UNIT CHIEF: MARK JONES
TOWNSHIP: DIMMICK

CONTRACT NO. 86601

LASALLE COUNTY

SECTION: (50-2)BR

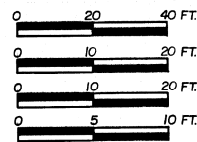
ROUTE: F.A.I. 80 (I-80)

PLAN & PROFILE

- HORIZONTAL
- VERTICAL

CROSS SECTIONS

- HORIZONTAL
- VERTICAL



QUIGG ENGINEERING INC

USER NAME = mwilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 1 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	250
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

FOR
INFORMATION
ONLY

F.A.I. ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	120

ILLINOIS PROJECT
* 150-21HBR-1, HB-2, BR

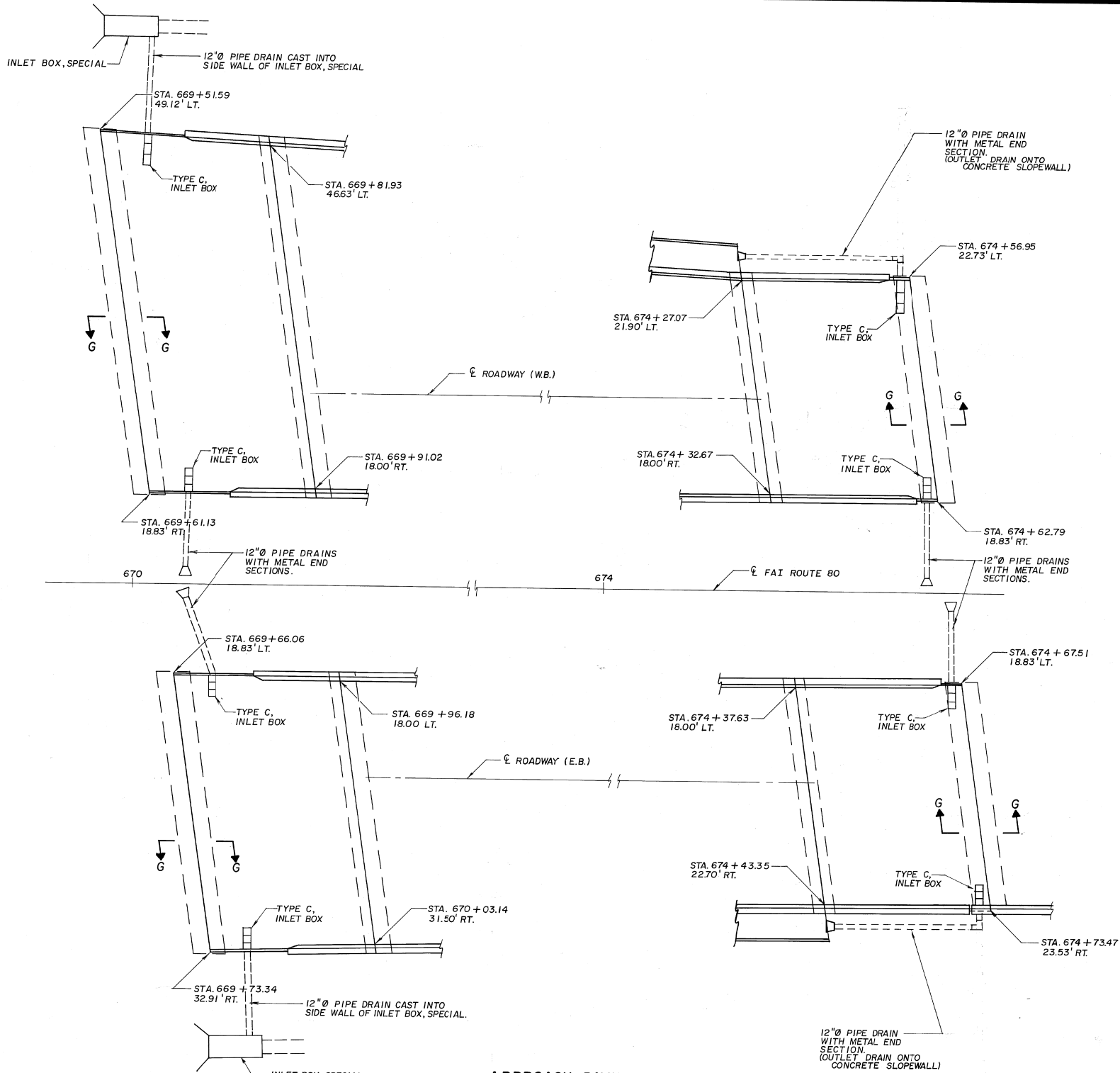
GENERAL NOTES

SEE STANDARD 2442 FOR ADDITIONAL DETAILS.

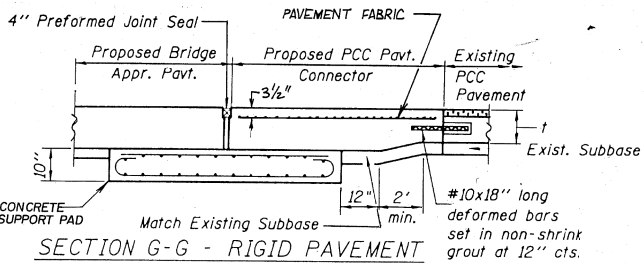
INLET BOXES OF THE TYPE SHOWN SHALL BE INSTALLED
ACCORDING TO STANDARD 2443.

BLOCK OUT PORTIONS OF THE CONCRETE SUPPORT PADS ON THE
EAST BRIDGE APPROACH PAVEMENTS AS REQUIRED FOR INSTALLATION
OF INLET BOXES.

THE PIPE DRAIN FOR THE SOUTHEAST INLET BOX OF
THE EAST BOUND BRIDGE SHALL PASS THROUGH THE
CONCRETE RETAINING WALL.



APPROACH PAVEMENT LAYOUT
(OFFSETS FROM RESPECTIVE ROADWAY CENTERLINE FOR EACH BRIDGE)



BRIDGE APPROACH PAVEMENT LAYOUT
STR. NO. 050-0220 (E.B.)
050-0221 (W.B.)

FOR
INFORMATION
ONLY

MODEL Default
FILE Name: \\projects\projects\2018\181018_Various Structure IDOT D3 Barksworth PTB 161-2-11\Work Order 14 - 1430 Roadway and other\CADD\CADD Sheets\Existing Bridge Plans 0220-0221 046.dgn

USER NAME = mwilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

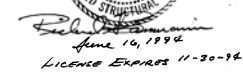
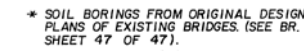
EXISTING STRUCTURAL PLANS STRUCTURE NO. 050-0220/0221			
SCALE:	SHEET 2 OF 42 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	251
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

EXISTING STRUCTURES: TWO - FOUR SPAN CONTINUOUS STEEL PLATE GIRDER BRIDGES WITH CONCRETE SLAB AND CONCRETE PIERS AND ABUTMENTS. BUILT IN 1961 AS F.A. PROJECT 1-80-3(36)/78, SECTION 50 - 2B AND 2P. EACH BRIDGE IS 30 FEET FACE TO FACE OF CURBS AND 414' - 6" BACK TO BACK OF ABUTMENTS. EXISTING STRUCTURES TO BE REMOVED EXCEPT FOR EXISTING PIERS WHICH WILL BE REUSED. EXISTING STRUCTURE NUMBERS 050-0005 & 050-0006. NO SALVAGE. TRAFFIC TO BE MAINTAINED UTILIZING MEDIAN CROSS-OVER AND CONSTRUCTING ONE BRIDGE AT A TIME, STARTING WITH THE WESTBOUND STRUCTURE.

F.A.I. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	127

BR. SHEET 1 OF 47
* (50-2)HBR-1, HB-2, BR

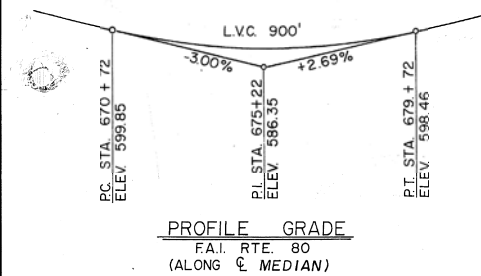


*Wendler Engineering
& Surveying*

DIXON, ILLINOIS
DEKALB, ILLINOIS
PRINCETON, ILLINOIS

GENERAL PLAN AND ELEVATION
F.A.I. ROUTE 80 SEC (50-2)BR
OVER LITTLE VERMILION RIVER
LA SALLE COUNTY
STRUCTURE NUMBER 050-0220E.B.
050-0221W.B.

FOR
INFORMATION
ONLY



Drainage Area = 118.44 Sq. Mi., Low Grade Elev. = 592.73 @ Sta. 675+46.52									
Flood	Freq.	Q	Opening Sq. Ft. @		Nat.	Head-Ft.		Headwater El.	
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	50	8386	1573	1638	536.42	0.15	0.18	536.57	536.6
Base	100	9486	1591	1791	537.29	0.12	0.15	537.41	537.4
Overtopping									
Max. Calc.	500	12051	2013	2112	539.06	0.05	0.09	539.11	539.1

① OPENING AT BRIDGE LOCATION USING WATER SURFACE ELEVATION AS NOTED IN THE HYDRAULIC CALCULATIONS FOR THE RESPECTIVE FLOOD FREQUENCY.

EAST BOUND BRIDGE
STATION 672+19.43
REBUILT 199 BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC(50-2)BF
F.A. PROJ.
LOADING HS 20 & ALT.
STR. NO. 050-0220

WEST BOUND BRIDGE
STATION 672+09.32
REBUILT 199 BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC(50-2)BR
F.A. PROJ.
LOADING HS 20 & ALT.
STR. NO. 050-0221

LETTERING FOR NAMEPLATE
SEE STANDARD 2113

AASHTO 1992 SPECIFICATIONS, 1993 INTERIMS

LOADING HS 20-44 & ALT.

ALLOW 25#/SQ. FT. FOR FUTURE WEARING SURFACE.

SEISMIC DATA

(S.P.C.) = A
(A) = 3.7
SITE COEFFICIENT(S) = 1.0

$$f'c = 3,500$$

fy = 60,000 psi (REINF)
fy = 36,000 psi (Structural Steel
M270 Gr. 36)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" DIA LOW-RELAXATION STRANDS)
f'si = 201,960 psi (1/2" DIA LOW-RELAXATION STRANDS)



QUIGG ENGINEERING INC

USER NAME	= mwilson
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PLOT SCALE = 2.0000' / in

PLOT DATE = 10/2/201

DESIGNED -

DRAWN	-
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CHECKED	-
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DATE	-
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REVISÉ -

REVISÉ -

REVISÉ -

REVISÉ -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE:	SHEET 3 OF 42 SHEETS	STA.	TO STA.
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F.A.I	SECTION	COUNTY	TOTAL	SHEET
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RTE.	SECTION	COUNTY	SHEETS	NO.
80	50 3/4B 3/4BDD (4B 1/4B/BB)BB 1	LACALIE	338	353

80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	232
		CONTRACT NO. 66H31		

		CONTRACT NO. 501121	
		ILLINOIS	FED. AID PROJECT

MODEL Default
FILE Name: \\quigg\projects\2018\181018_Various Structure IDOT D3 Barrisworth PTB 161-21\Work Order 14 - 1430 Roadway and other\CADD\CADD Sheets\Existing Bridge Plans 0226-0229_048.dgn

F.A.I ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	A	LASALLE	196	128
ILLINOIS PROJECT				
SHEET 2 OF 47 * (50-2)HBR-1, HB-2, BR				

GENERAL NOTES

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

ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH THE INORGANIC ZINC-SILICATE / ACRYLIC / ACRYLIC PAINT SYSTEM. THE COLOR OF THE ACRYLIC FINISH COATS SHALL BE MUNSELL NO. 10Y 7/1 LIGHT GREY.

BRIDGE SEAT SEALER SHALL BE APPLIED TO SEAT AREA OF THE ABUTMENTS.

A PORTION OF THE EMBANKMENT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS, AS INDICATED IN THE ROADWAY APPROACH CROSS SECTIONS.

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

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC, 6" X 6" - W4.0 X W4.0, WEIGHING 58 LBS. PER 100 SQ. FT.

LAYOUT OF SLOPE PROTECTION SYSTEM MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

TOTAL BILL OF MATERIAL		STRUCTURE NO. 050-0220 (E.B.)			STRUCTURE NO. 050-0221 (W.B.)			TOTAL
ITEM	UNIT	SUPER	SUB.	TOTAL	SUPER	SUB.	TOTAL	
REMOVAL OF EXISTING STRUCTURES NO. 1	EACH			1				1
REMOVAL OF EXISTING STRUCTURES NO. 2	EACH						1	1
STRUCTURE EXCAVATION	CU. YD.		365	365		372	372	737
COFFERDAM EXCAVATION	CU. YD.		335	335		286	286	621
BRACED EXCAVATION	CU. YD.		514	514		625	625	1139
ROCK EXCAVATION FOR STRUCTURES	CU. YD.		1144	1144		995	995	2139
COFFERDAMS	EACH		2	2		2	2	4
SLOPE WALL REMOVAL	SQ. YD.		151	151		151	151	302
SLOPE WALL 6 INCH	SQ. YD.		340	340		367	367	707
NEOPRENE EXPANSION JOINT 4"	FOOT	98		98	112		112	210
CONCRETE SUPERSTRUCTURE	CU. YD.	792.9		792.9	900.4		900.4	1693.3
* PROTECTIVE COAT	SQ. YD.	406		406	395		395	801
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	28		28	32		32	60
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	14		14	16		16	30
CONCRETE STRUCTURES	CU. YD.		1547.1	1547.1		1824.3	1824.3	3371.4
FURNISHING AND ERECTING PRECAST								
PRESTRESSED CONCRETE BULB T-BEAMS 72"	FOOT	3053		3053	3509		3509	6562
FURNISHING & ERECTING STRUCTURAL STEEL	POUND	3183		3183	3637		3637	6820
REINFORCEMENT BARS, EPOXY COATED	POUND	175830	213440	389270	216040	254670	470710	859980
FURNISHING STEEL PILES HP 10 x 42	FOOT		560	560		560	560	1120
DRIVING STEEL PILES	FOOT		560	560		560	560	1120
SEAL COAT CONCRETE	CU. YD.		36.3	36.3		39.8	39.8	76.1
NAME PLATES	EACH	1		1	1		1	2
BRIDGE SEAT SEALER	SQ. FT.		317	317		363	363	680
DRAINAGE SCUPPERS (SPECIAL)	EACH	8		8	8		8	16
BRIDGE DECK GROOVING	SQ. YD.	2200		2200	2550		2550	4750
CAISSON SHAFTS 36"	CU. FT.		1413	1413		2225	2225	3638
STONE DUMPED RIPRAP CLASS A5	TON			3971			5683	9654
FILTER FABRIC FOR USE WITH RIPRAP	SQ. YD.			1430			2779	4209

* QUANTITY IS FOR TOP AND INSIDE FACE OF PARAPET, WINGWALL, AND RETAINING WALL ONLY.

GENERAL NOTES AND BILL OF MATERIAL
F.A.I. ROUTE 80 SEC. (50-2)BR
LASALLE COUNTY
STRUCTURE NUMBER 050-0220 E.B.
050-0221 W.B.

FOR
INFORMATION
ONLY



USER NAME = mwilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

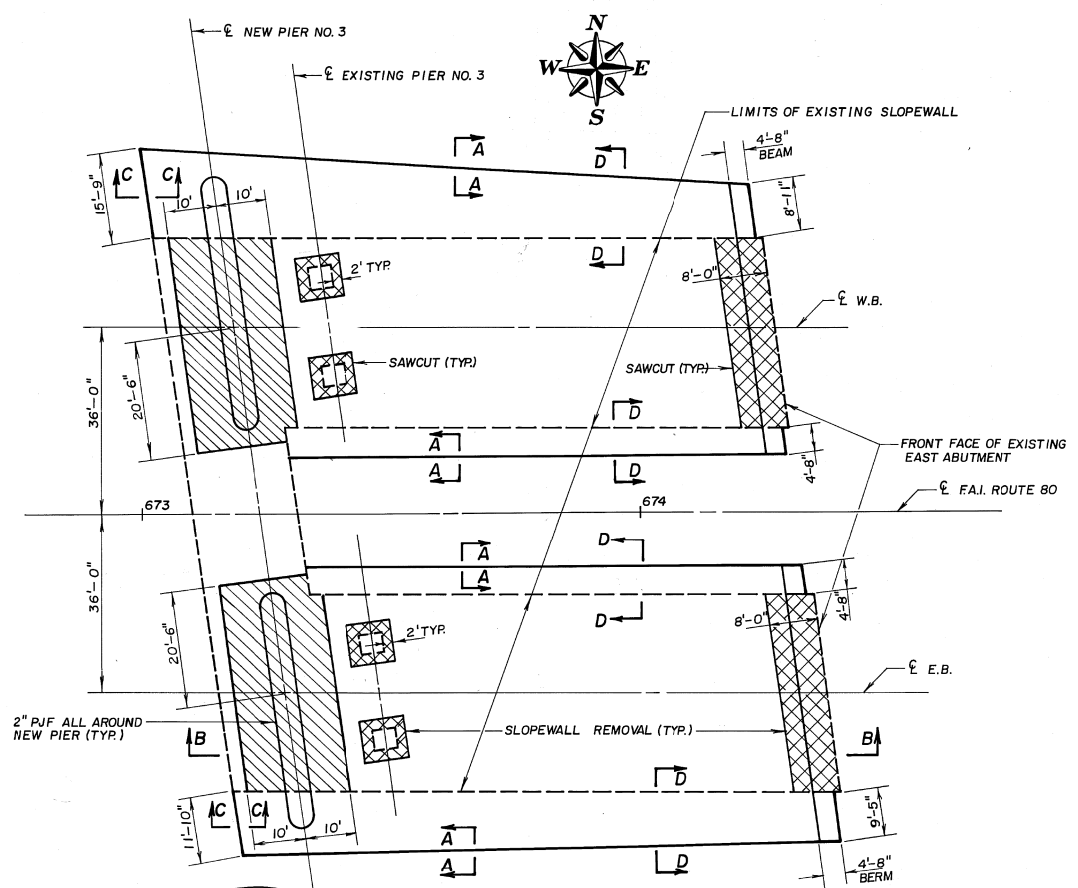
EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 4 OF 42 SHEETS STA. TO STA.

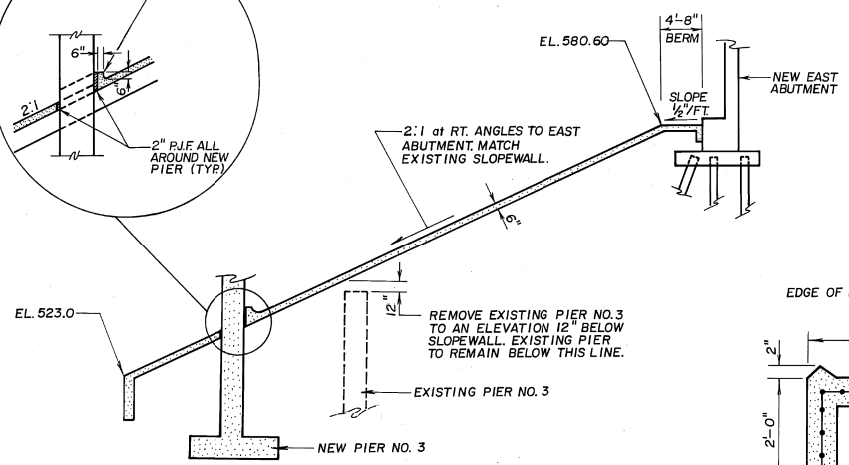
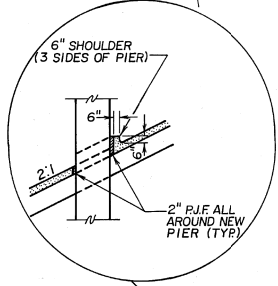
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	253
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

F.A.I. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	129

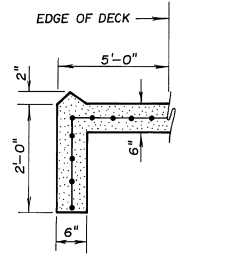
ILLINOIS PROJECT
BR. SHEET 3 OF 47
* (50-2)HBR-1, HB-2, BR



SLOPEWALL - PLAN



SECTION B-B



SECTION A-A

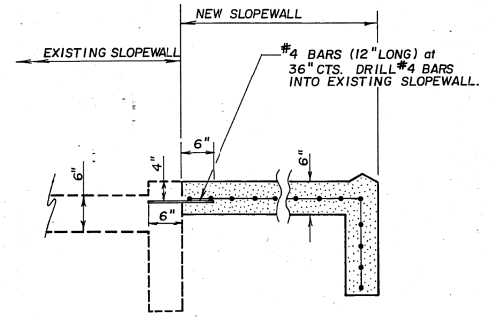
SLOPEWALL NOTES:

SLOPEWALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" X 6" - W4.0 WEIGHING 58 LBS. PER 100 SQUARE FEET.

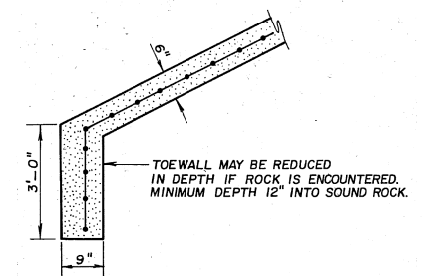
COST OF FURNISHING AND PLACING WELDED WIRE FABRIC; FURNISHING, DRILLING AND PLACING REINFORCEMENT BARS; EXCAVATING AND BACKFILLING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF SLOPEWALL.

EXISTING SLOPEWALL SHALL BE SAWCUT 2' BEYOND THE PERIMETER OF EXISTING PIER #3. PIER #3 SHALL BE REMOVED TO AN ELEVATION 12" BELOW THE BOTTOM OF THE SLOPEWALL. THE SLOPEWALL SHALL THEN BE REPOURED AND REINFORCED WITH WELDED WIRE FABRIC AND #4 BARS DRILLED INTO EXISTING SLOPEWALL AS DETAILED IN SECTION D-D.

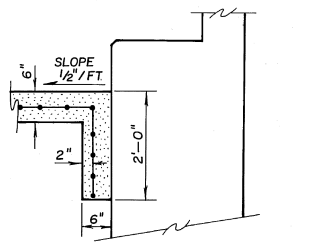
EXISTING SLOPEWALL SHALL BE SAWCUT 8' FROM THE FACE OF THE EXISTING EAST ABUTMENT AS SHOWN. AFTER THE EXISTING EAST ABUTMENTS ARE REMOVED AND REPOURED THE SLOPEWALL SHALL BE REPOURED AND REINFORCED WITH WELDED WIRE FABRIC AND #4 BARS DRILLED INTO EXISTING SLOPEWALL AS DETAILED IN SECTION D-D.



SECTION D-D

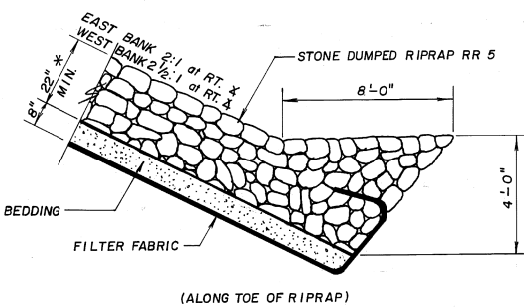
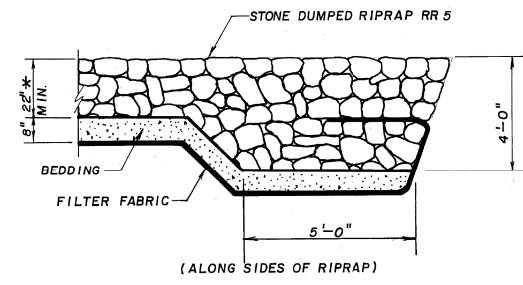


SECTION C-C



SECTION AT ABUTMENT

EXTEND TOE BEYOND ENDS OF ABUTMENT CAP.



STONE RIPRAP TREATMENT

* RIPRAP THICKNESS VARIES AS INDICATED ON SHEETS 12 AND 15 OF THE PLANS.

NOTE: KEY RIPRAP A MINIMUM OF 30" INTO BEDROCK, IF ENCOUNTERED. (SEE CHANNEL CROSS SECTIONS)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
EASTBOUND SLOPEWALL REMOVAL	SQ. YDS.	151
EASTBOUND SLOPEWALL 6 INCH	SQ. YDS.	340
WESTBOUND SLOPEWALL REMOVAL	SQ. YDS.	151
WESTBOUND SLOPEWALL 6 INCH	SQ. YDS.	367
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	548
EASTBOUND STONE DUMPED RIPRAP, CLASS A5	TON	3971
WESTBOUND STONE DUMPED RIPRAP, CLASS A5	TON	5683

SLOPEWALL AND RIPRAP DETAILS
F.A.I. ROUTE 80 SEC (50-2)BR
LA SALLE COUNTY
STRUCTURE NUMBER 050-0220 E.B.
050-0221 W.B.

FOR
INFORMATION
ONLY

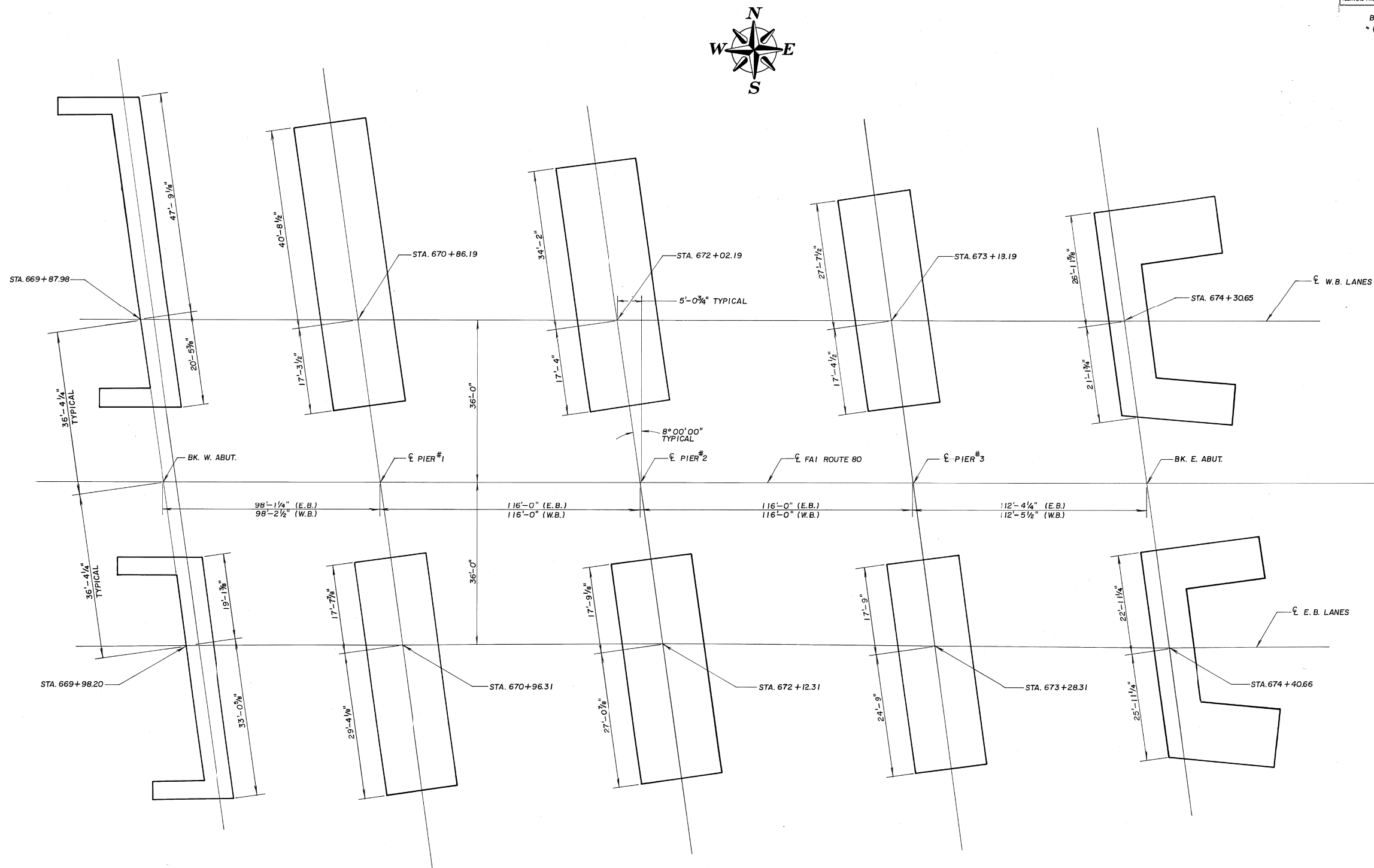
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USER NAME = mwilson	DESIGNED -	REVISED -
DRAWN -	REVISD -	
PLOT SCALE = 2,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	254
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

F.A.I. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	#	LASALLE	196	130

BR. SHEET 4 OF 47
* (50-2)HBR-1, HB-2, BR



FOOTING LAYOUT

FOOTING LAYOUT
F.A.I. ROUTE 80 SEC.(50-2) BR
LASALLE COUNTY
STRUCTURE NUMBER 050-0220 E.B.
050-0221 W.B.

**FOR
INFORMATION
ONLY**

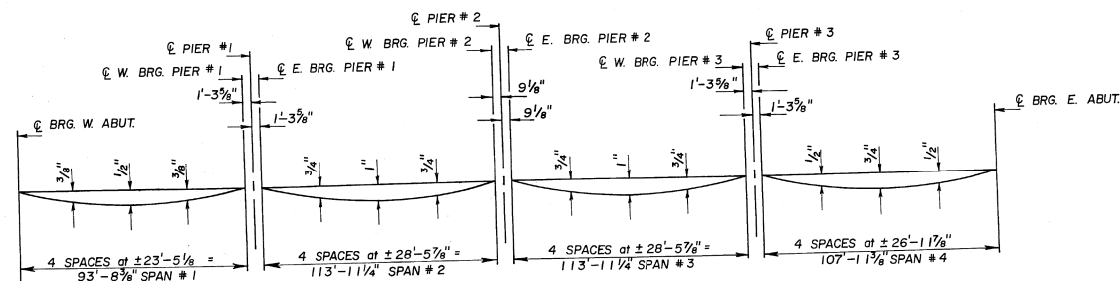
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USER NAME = mwilson	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 2,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	255
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

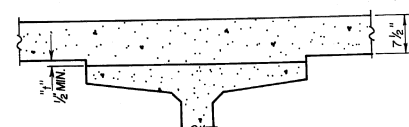
F.A.I. ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	131

BR. SHEET 5 OF 47
* (50-2)HBR-1, HB-2, BR



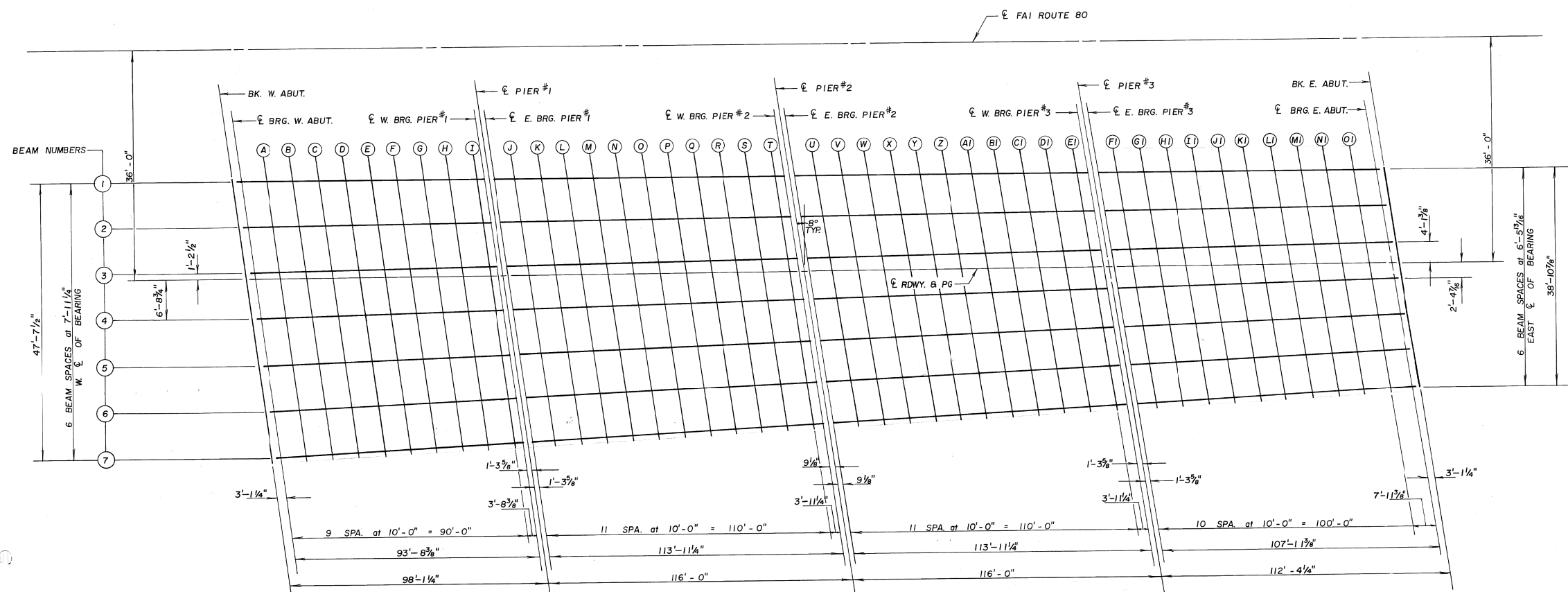
DEAD LOAD DEFLECTION DIAGRAM
(INCLUDES WEIGHT OF CONCRETE SLAB ONLY)

NOTE: THE ABOVE DEFLECTIONS ARE NOT TO BE USED IN THE FIELD IF THE ENGINEER IS WORKING FROM THE GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS AS SHOWN ON SHEETS 6 & 7 OF 47.



TO DETERMINE "t": AFTER ALL PRECAST PRESTRESSED BEAMS HAVE BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT INTERVALS SHOWN ON THIS SHEET AND SHEETS 6 & 7 OF 47. THESE ELEVATIONS SUBTRACTED FROM THE "THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS" MINUS SLAB THICKNESS, EQUALS THE FILLET HEIGHTS "t" ABOVE TOP FLANGES OF BEAMS.

FILLET HEIGHTS



PLAN

TOP OF SLAB ELEVATION
FAI ROUTE 80 SEC (50-2) BR
LA SALLE COUNTY
STRUCTURE NO. 050-0220
STA. 672+19.43

(EASTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

MODEL: Default
FILE NAME: \\quigg\projects\2018\181018_Various Structure IDOT D3 Barnesworth PTB 161-2-1\Work Order 14 - 1430 Roadway and other\CADD\CADD Sheets\Existing Bridge Plans 0220-0229 051.dgn

USER NAME = mwilson	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE = 10/4/2019	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	256
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

F&I ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	★	LASALLE	196	132

BR SHEET 6 OF 47
• (50-2)HBR-1, HB-2, BR

EASTBOUND BEAM #1					EASTBOUND BEAM #2					EASTBOUND BEAM #3					EASTBOUND CENTERLINE ROADWAY & P.G.				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BK. W. ABUT.	66995.804	17.083	601.842	601.842	BK. W. ABUT.	66996.920	9.135	601.960	601.960	BK. W. ABUT.	66998.036	1.187	602.050	602.050	BK. W. ABUT.	66998.200	0.000	602.064	602.064
CL BRG. W. ABUT.	66998.909	17.083	601.749	601.749	CL BRG. W. ABUT.	67000.024	9.145	601.866	601.866	CL BRG. W. ABUT.	67001.140	1.208	601.957	601.957	CL BRG. W. ABUT.	67001.304	0.000	601.970	601.971
A	67008.909	17.083	601.449	601.466	A	67010.024	9.179	601.566	601.583	A	67011.140	1.275	601.656	601.673	A	67011.304	0.000	601.670	601.688
B	67018.909	17.083	601.149	601.181	B	67020.024	9.212	601.267	601.284	B	67021.140	1.342	601.358	601.387	B	67021.304	0.000	601.370	601.403
C	67028.909	17.083	600.849	600.889	C	67030.024	9.245	600.965	601.008	C	67031.140	1.409	601.054	601.097	C	67031.304	0.000	601.070	601.114
D	67038.909	17.083	600.549	600.598	D	67040.024	9.278	600.664	600.713	D	67041.140	1.476	600.753	600.802	D	67041.304	0.000	600.770	600.820
E	67048.909	17.083	600.249	600.299	E	67050.024	9.311	600.364	600.414	E	67051.140	1.543	600.452	600.502	E	67051.304	0.000	600.470	600.521
F	67058.909	17.083	599.949	599.995	F	67060.024	9.344	600.063	600.109	F	67061.140	1.610	600.151	600.197	F	67061.304	0.000	600.170	600.217
G	67068.909	17.083	599.649	599.685	G	67070.024	9.377	599.763	599.799	G	67071.140	1.677	599.850	599.886	G	67071.304	0.000	599.870	599.907
H	67078.909	17.083	599.351	599.374	H	67080.024	9.410	599.464	599.487	H	67081.140	1.744	599.551	599.574	H	67081.304	0.000	599.573	599.596
I	67088.909	17.083	599.058	599.064	I	67090.024	9.443	599.172	599.178	I	67091.140	1.811	599.259	599.265	I	67091.304	0.000	599.282	599.289
CL W. BRG. PIER #1	67092.604	17.083	598.952	598.952	CL W. BRG. PIER #1	67093.676	9.458	599.067	599.067	CL W. BRG. PIER #1	67094.748	1.832	599.155	599.155	CL W. BRG. PIER #1	67095.002	0.000	599.176	599.177
CL BRG. PIER #1	67093.909	17.083	598.915	598.915	CL BRG. PIER #1	67094.980	9.462	599.029	599.029	CL BRG. PIER #1	67096.051	1.841	599.118	599.118	CL BRG. PIER #1	67096.310	0.000	599.139	599.139
CL E. BRG. PIER #1	67095.213	17.083	598.877	598.877	CL E. BRG. PIER #1	67096.283	9.467	598.992	598.992	CL E. BRG. PIER #1	67097.354	1.850	599.081	599.081	CL E. BRG. PIER #1	67097.606	0.000	599.102	599.103
J	67105.213	17.083	598.595	598.625	J	67106.283	9.500	598.710	598.740	J	67107.354	1.917	598.799	598.829	J	67107.606	0.000	598.821	598.852
K	67115.213	17.083			K	67116.283	9.533	598.435	598.492	K	67117.354	1.984	598.523	598.580	K	67117.606	0.000	598.547	598.604
L	67125.213	17.083	598.050	598.130	L	67126.283	9.566	598.165	598.245	L	67127.354	2.051	598.254	598.334	L	67127.606	0.000	598.279	598.360
M	67135.213	17.083	597.787	597.883	M	67136.283	9.599	597.902	597.998	M	67137.354	2.118	597.991	598.087	M	67137.606	0.000	598.017	598.114
N	67145.213	17.083	597.530	597.635	N	67146.283	9.632	597.645	597.750	N	67147.354	2.185	597.735	597.840	N	67147.606	0.000	597.762	597.868
O	67155.213	17.083	597.279	597.386	O	67156.283	9.665	597.395	597.502	O	67157.354	2.252	597.824	597.929	O	67157.606	0.000	597.853	597.959
P	67165.213	17.083	597.035	597.136	P	67166.283	9.698	597.151	597.252	P	67167.354	2.319	597.241	597.342	P	67167.606	0.000	597.270	597.372
Q	67175.213	17.083	596.797	596.884	Q	67176.283	9.731	596.913	597.000	Q	67177.354	2.386	597.003	597.090	Q	67177.606	0.000	597.034	597.121
R	67185.213	17.083	596.565	596.631	R	67186.283	9.764	596.682	596.748	R	67187.354	2.453	596.772	596.838	R	67187.606	0.000	596.804	596.870
S	67195.213	17.083	596.340	596.381	S	67196.283	9.797	596.457	596.498	S	67197.354	2.520	596.847	596.888	S	67197.606	0.000	596.880	596.922
T	67205.213	17.083	596.121	596.133	T	67206.283	9.833	596.238	596.250	T	67207.354	2.587	596.938	596.940	T	67207.606	0.000	596.963	596.975
CL W. BRG. PIER #2	67209.151	17.083	596.037	596.037	CL W. BRG. PIER #2	67210.168	9.846	596.155	596.155	CL W. BRG. PIER #2	67211.185	2.609	596.246	596.246	CL W. BRG. PIER #2	67211.544	0.000	596.279	596.279
CL BRG. PIER #2	67209.909	17.083	596.021	596.021	CL BRG. PIER #2	67210.925	9.849	596.138	596.138	CL BRG. PIER #2	67211.942	2.614	596.230	596.230	CL BRG. PIER #2	67212.304	0.000	596.263	596.263
CL E. BRG. PIER #2	67210.666	17.083	596.004	596.004	CL E. BRG. PIER #2	67211.682	9.851	596.122	596.122	CL E. BRG. PIER #2	67212.699	2.619	596.214	596.214	CL E. BRG. PIER #2	67213.064	0.000	596.247	596.247
U	67220.666	17.083	595.795	595.823	U	67221.682	9.884	595.913	595.941	U	67222.699	2.686	596.005	596.033	U	67223.064	0.000	596.039	596.066
V	67230.666	17.083	595.592	595.646	V	67231.682	9.917	595.711	595.765	V	67232.699	2.753	595.802	595.856	V	67233.064	0.000	595.838	595.892
W	67240.666	17.083	595.396	595.471	W	67241.682	9.950	595.514	595.589	W	67242.699	2.820	595.696	595.681	W	67243.064	0.000	595.643	595.718
X	67250.666	17.083	595.206	595.297	X	67251.682	9.983	595.324	595.415	X	67252.699	2.887	595.415	595.507	X	67253.064	0.000	595.454	595.545
Y	67260.666	17.083	595.022	595.122	Y	67261.682	10.016	595.140	595.240	Y	67262.699	2.954	595.232	595.332	Y	67263.064	0.000	595.272	595.372
Z	67270.666	17.083	594.844	594.945	Z	67271.682	10.049	594.963	595.064	Z	67272.699	3.021	595.055	595.156	Z	67273.064	0.000	595.096	595.197
A1	67280.666	17.083	594.673	594.768	A1	67281.682	10.082	594.792	594.887	A1	67282.699	3.088	594.844	594.979	A1	67283.064	0.000	594.926	595.021
B1	67290.666	17.083	594.508	594.590	B1	67291.682	10.115	594.627	594.709	B1	67292.699	3.155	594.719	594.801	B1	67293.064	0.000	594.762	594.845
C1	67300.666	17.083	594.350	594.413	C1	67301.682	10.148	594.469	594.532	C1	67302.699	3.222	594.561	594.624	C1	67303.064	0.000	594.605	594.669
D1	67310.666	17.083	594.197	594.236	D1	67311.682	10.181	594.316	594.355	D1	67312.699	3.289	594.409	594.448	D1	67313.064	0.000	594.455	594.494
E1	67320.666	17.083	594.051	594.062	E1	67321.682	10.218	594.171	594.182	E1	67322.699	3.356	594.263	594.274	E1	67323.064	0.000	594.310	594.322
CL W. BRG. PIER #3	67324.604	17.083	593.996	593.996	CL W. BRG. PIER #3	67325.567	10.231	594.116	594.116	CL W. BRG. PIER #3	67326.530	3.378	594.209	594.209	CL W. BRG. PIER #3	67327.002	0.000	594.255	594.255
CL BRG. PIER #3	67325.909	17.083	593.977	593.977	CL BRG. PIER #3	67326.871	10.235	594.097	594.097	CL BRG. PIER #3	67327.834	3.386	594.191	594.191	CL BRG. PIER #3	67328.304	0.000	594.237	594.237
CL E. BRG. PIER #3	67327.213	17.083	593.959	593.959	CL E. BRG. PIER #3	67328.175	10.239	594.079	594.079	CL E. BRG. PIER #3	67329.137	3.395	594.173	594.173	CL E. BRG. PIER #3	67329.606	0.000	594.219	594.220
F1	67337.213	17.083	593.824	593.847	F1	67338.175	10.272	593.944	593.967	F1	67339.137	3.462	594.038	594.061	F1	67339.606	0.000	594.085	594.108
G1	67347.213	17.083	593.695	593.739	G1	67348.175	10.305	593.815	593.5										

FAI ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	133

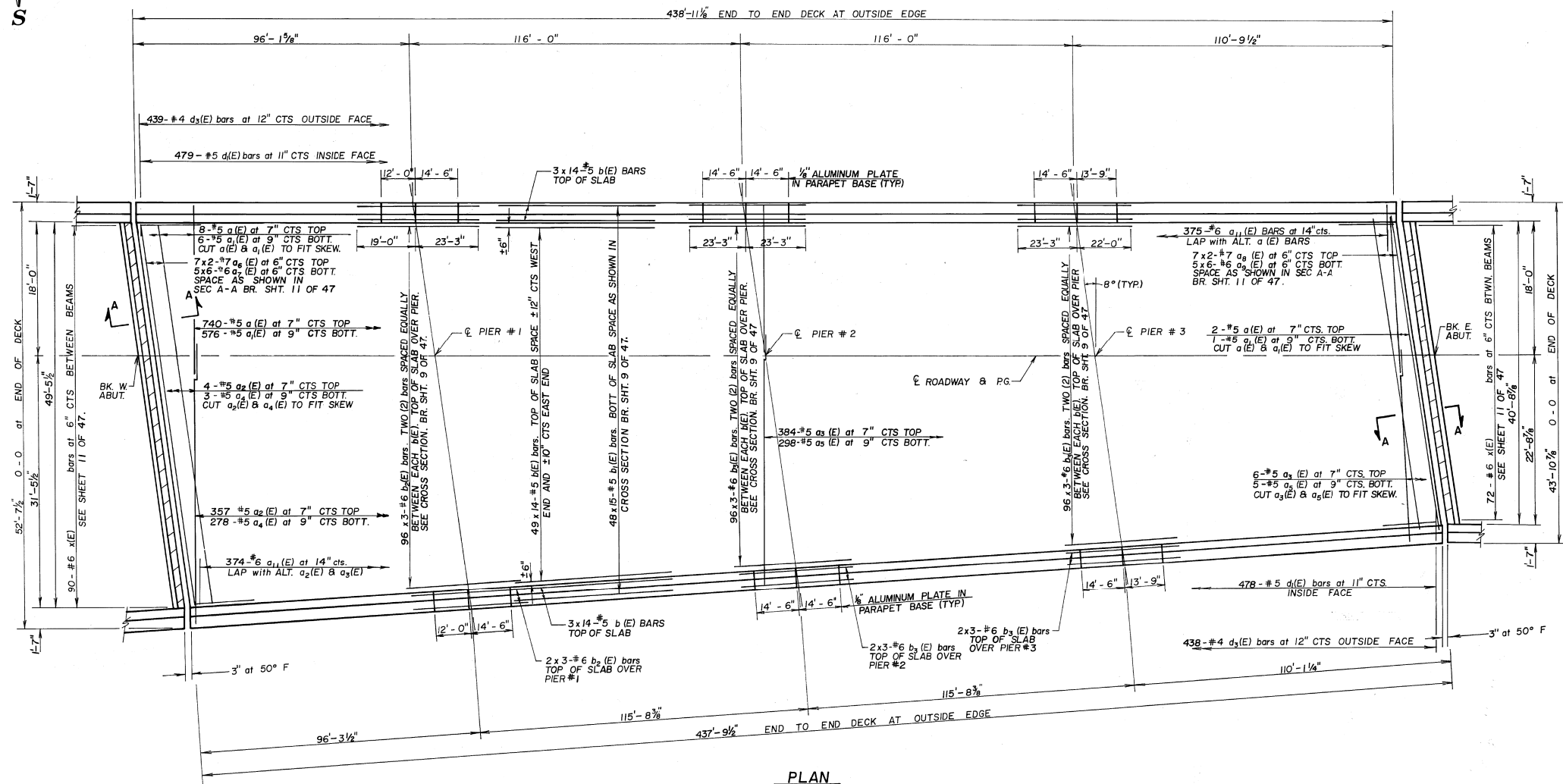
ILLINOIS PROJECT
BR SHEET 7 OF 47
* (50-2)HBR-1, HB-2, BR

EASTBOUND BEAM #4					EASTBOUND BEAM #5					EASTBOUND BEAM #6					EASTBOUND BEAM #7				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BK. W. ABUT.	66999.151	6.760	601.929	601.929	BK. W. ABUT.	67000.267	14.708	601.758	601.758	BK. W. ABUT.	67001.382	22.656	601.559	601.559	BK. W. ABUT.	67002.498	30.604	601.350	601.360
CL BRG. W. ABUT.	67002.255	6.729	601.837	601.837	CL BRG. W. ABUT.	67003.371	14.667	601.666	601.666	CL BRG. W. ABUT.	67004.486	22.604	601.467	601.467	CL BRG. W. ABUT.	67005.602	30.542	601.258	601.268
A	67012.255	6.629	601.539	601.556	A	67013.371	14.534	601.369	601.386	A	67014.486	22.437	601.170	601.187	A	67015.602	30.342	600.972	600.989
B	67022.255	6.529	601.240	601.272	B	67023.371	14.400	601.071	601.103	B	67024.486	22.270	600.874	600.906	B	67025.602	30.142	600.677	600.709
C	67032.255	6.429	600.942	600.985	C	67033.371	14.267	600.774	600.817	C	67034.486	22.103	600.577	600.620	C	67035.602	29.942	600.474	600.506
D	67042.255	6.329	600.643	600.692	D	67043.371	14.133	600.477	600.526	D	67044.486	21.936	600.281	600.330	D	67045.602	29.740	600.085	600.134
E	67052.255	6.229	600.345	600.395	E	67053.371	14.000	600.180	600.230	E	67054.486	21.769	599.984	600.034	E	67055.602	29.540	599.789	599.839
F	67062.255	6.129	600.046	600.092	F	67063.371	13.866	599.883	599.929	F	67064.486	21.602	599.687	599.733	F	67065.602	29.339	599.493	599.539
G	67072.255	6.029	599.748	599.784	G	67073.371	13.733	599.585	599.621	G	67074.486	21.435	599.392	599.428	G	67075.602	29.139	599.197	599.233
H	67082.255	5.929	599.453	599.476	H	67083.371	13.599	599.292	599.315	H	67084.486	21.268	599.099	599.122	H	67085.602	28.939	598.908	598.931
I	67092.255	5.829	599.164	599.170	I	67093.371	13.466	599.005	599.011	I	67094.486	21.101	598.814	598.820	I	67095.602	28.738	598.623	598.629
CL W. BRG. PIER #1	67095.819	5.793	599.062	599.062	CL W. BRG. PIER #1	67096.891	13.419	598.906	598.906	CL W. BRG. PIER #1	67097.963	21.044	598.716	598.716	CL W. BRG. PIER #1	67099.034	28.669	598.527	598.527
CL BRG. PIER #1	67097.122	5.780	599.026	599.026	CL BRG. PIER #1	67098.193	13.418	598.869	598.869	CL BRG. PIER #1	67099.264	21.022	598.681	598.681	CL BRG. PIER #1	67100.335	28.643	598.491	598.491
CL E. BRG. PIER #1	67098.424	5.767	598.989	598.989	CL E. BRG. PIER #1	67099.495	13.384	598.833	598.833	CL E. BRG. PIER #1	67100.565	21.000	598.644	598.644	CL E. BRG. PIER #1	67101.636	28.617	598.455	598.455
J	67108.424	5.667	598.710	598.740	J	67109.495	13.250	598.556	598.586	J	67110.565	20.833	598.368	598.398	J	67111.636	28.417	598.181	598.211
K	67118.424	5.567	598.438	598.495	K	67119.495	13.117	598.286	598.343	K	67120.565	20.666	598.100	598.157	K	67121.636	28.216	597.914	597.971
L	67128.424	5.467	598.172	598.252	L	67129.495	12.983	598.022	598.102	L	67130.565	20.499	597.816	597.916	L	67131.636	28.016	597.652	597.732
M	67138.424	5.367	597.913	598.009	M	67139.495	12.850	597.764	597.860	M	67140.565	20.332	597.580	597.676	M	67141.636	27.815	597.397	597.493
N	67148.424	5.267	597.660	597.765	N	67149.495	12.716	597.513	597.618	N	67150.565	20.165	597.330	597.435	N	67151.636	27.615	597.153	597.253
O	67158.424	5.167	597.413	597.520	O	67159.495	12.583	597.267	597.374	O	67160.565	19.998	597.087	597.194	O	67161.636	27.414	596.906	597.013
P	67168.424	5.067	597.172	597.273	P	67169.495	12.449	597.029	597.130	P	67170.565	19.831	596.849	596.950	P	67171.636	27.214	596.677	596.772
Q	67178.424	4.967	596.938	597.025	Q	67179.495	12.316	596.796	596.883	Q	67180.565	19.664	596.618	596.705	Q	67181.636	27.014	596.441	596.528
R	67188.424	4.867	596.710	596.776	R	67189.495	12.182	596.570	596.636	R	67190.565	19.498	596.393	596.459	R	67191.636	26.813	596.217	596.283
S	67198.424	4.767	596.488	596.529	S	67199.495	12.049	596.450	596.491	S	67200.565	19.331	596.205	596.216	S	67201.636	26.613	596.000	596.041
T	67208.424	4.667	596.273	596.285	T	67209.495	11.915	596.137	596.149	T	67210.565	19.164	595.963	595.975	T	67211.636	26.412	595.789	595.801
CL W. BRG. PIER #2	67212.203	4.628	596.193	596.193	CL W. BRG. PIER #2	67213.220	11.865	596.058	596.058	CL W. BRG. PIER #2	67214.237	19.102	595.887	595.887	CL W. BRG. PIER #2	67215.254	26.340	595.715	595.715
CL BRG. PIER #2	67212.959	4.621	596.177	596.177	CL BRG. PIER #2	67213.976	11.855	596.043	596.043	CL BRG. PIER #2	67214.992	19.090	595.871	595.871	CL BRG. PIER #2	67216.009	26.325	595.699	595.699
CL E. BRG. PIER #2	67213.715	4.613	596.161	596.161	CL E. BRG. PIER #2	67214.732	11.845	596.027	596.027	CL E. BRG. PIER #2	67215.748	19.077	595.856	595.856	CL E. BRG. PIER #2	67216.764	26.310	595.684	595.684
U	67223.715	4.513	595.955	595.983	U	67224.732	11.712	595.822	595.850	U	67225.748	18.910	595.654	595.682	U	67226.764	26.110	595.483	595.511
V	67233.715	4.413	595.756	595.810	V	67234.732	11.578	595.624	595.678	V	67235.748	18.743	595.457	595.511	V	67236.764	25.909	595.288	595.342
W	67243.715	4.313	595.563	595.638	W	67244.732	11.445	595.432	595.507	W	67245.748	18.576	595.267	595.342	W	67246.764	25.709	595.099	595.174
X	67253.715	4.213	595.376	595.467	X	67254.732	11.311	595.247	595.338	X	67255.748	18.409	595.084	595.175	X	67256.764	25.508	594.917	595.008
Y	67263.715	4.113	595.196	595.296	Y	67264.732	11.178	595.068	595.168	Y	67265.748	18.242	594.906	595.006	Y	67266.764	25.308	594.741	594.841
Z	67273.715	4.013	595.022	595.123	Z	67274.732	11.044	594.894	594.995	Z	67275.748	18.075	594.736	594.837	Z	67276.764	25.107	594.571	594.672
A1	67283.715	3.913	594.854	594.949	A1	67284.732	10.911	594.728	594.823	A1	67285.748	17.908	594.571	594.666	A1	67286.764	24.907	594.409	594.504
B1	67293.715	3.813	594.692	594.774	B1	67294.732	10.777	594.568	594.650	B1	67295.748	17.741	594.413	594.495	B1	67296.764	24.707	594.252	594.334
C1	67303.715	3.713	594.538	594.601	C1	67304.732	10.644	594.414	594.477	C1	67305.748	17.574	594.261	594.324	C1	67306.764	24.506	594.101	594.164
D1	67313.715	3.613	594.389	594.428	D1	67314.732	10.510	594.266	594.305	D1	67315.748	17.408	594.115	594.154	D1	67316.764	24.306	593.957	594.044
E1	67323.715	3.513	594.246	594.257	E1	67324.732	10.377	594.125	594.136	E1	67325.748	17.241	593.976	593.987	E1	67326.764	24.105	593.819	593.830
CL W. BRG. PIER #3	67327.493	3.474	594.194	594.194	CL W. BRG. PIER #3	67328.457	10.327	594.074	594.074	CL W. BRG. PIER #3	67329.420	17.180	593.927	593.927	CL W. BRG. PIER #3	67330.383	24.033	593.771	593.771
CL BRG. PIER #3	67328.796	3.461	594.231	594.231	CL BRG. PIER #3	67329.758	10.310	594.056	594.056	CL BRG. PIER #3	67330.721	17.158	593.909	593.909	CL BRG. PIER #3	67331.683	24.007	593.753	593.753
CL E. BRG. PIER #3	67330.099	3.448	594.159	594.159	CL E. BRG. PIER #3	67331.060	10.292	594.039	594.039	CL E. BRG. PIER #3	67332.022	17.136	593.893	593.893	CL E. BRG. PIER #3	67332.984	23.981	593.736	593.736
F1	67340.099	3.348	594.027	594.050	F1	67341.060	10.159	593.908	593.931	F1	67342.022	16.969	593.763	593.786	F1	67342.984	23.781	593.609	593.632
G1	67350.099																		

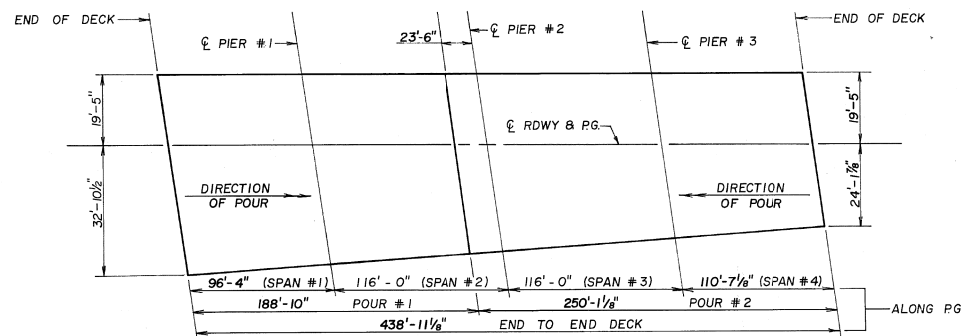


F.A.I. ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	134

BR. SHEET 8 OF 47
• (50-2)HBR-1, HB-2, BR



PLAN



POURING SEQUENCE DETAIL

BAR LAPS

#5 BAR = 2'-2"
#6 BAR = 2'-7"
#7 BAR = 3'-5"

NOTES:
WHEN THE DECK POUR IS STOPPED FOR THE DAY AT THE TRANSVERSE BONDED CONSTRUCTION JOINT IN THE DECK POURING SEQUENCE AS SHOWN, THE NEXT POUR SHALL NOT BE MADE UNTIL BOTH OF THE FOLLOWING REQUIREMENTS ARE MET:

- AT LEAST 72 HOURS SHALL HAVE ELAPSED FROM THE END OF THE PREVIOUS POUR.
- THE CONCRETE STRENGTH SHALL HAVE ATTAINED A MINIMUM MODULUS OF RUPTURE OF 650 P.S.I. OR A MINIMUM COMPRESSIVE STRENGTH OF 3500 P.S.I.

THE CONTRACTOR, AS AN ALTERNATIVE TO THE POURING SEQUENCE MAY POUR THE DECK SIMULTANEOUSLY FROM EACH END OF THE BRIDGE.

NOTES:
SEE SHEET #9 & #10 OF 47 FOR SUPERSTRUCTURE DETAILS AND BILL OF MATERIAL.
SEE SHEET # 11 OF 47 FOR SECTIONS AT ABUTMENTS AND PIERS.
SEE SHEET #1 OF 47 FOR DRAINAGE SCRUPPER SPACING.
SEE SHEETS #10, 42, 43 OF 47 FOR DRAINAGE SCRUPPER DETAILS.
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
BARS INDICATED THUS 20 x 3 - #5 ETC. INDICATES 20 LINES OF BARS WITH 3 LENGTHS PER LINE.
CUT LONGITUDINAL REINFORCEMENT BARS TO CLEAR DRAINAGE SCRUPPERS.

SUPERSTRUCTURE
FAI ROUTE 80 SEC(50-2) BR
LA SALLE COUNTY
STRUCTURE NO. 050-0220
STA. 672+19.43

(EASTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

MODEL: Default
FILE NAME: \\quigg\projects\2018\181018_Various Structure IDOT D3 Bypassing Bridge Plans\161-211\Work Order 14 - 1430 Roadway and other\CADD\CADD Sheets\Existing Bridge Plans 0220-0220_054.dgn



QUIGG ENGINEERING INC.

USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE = 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

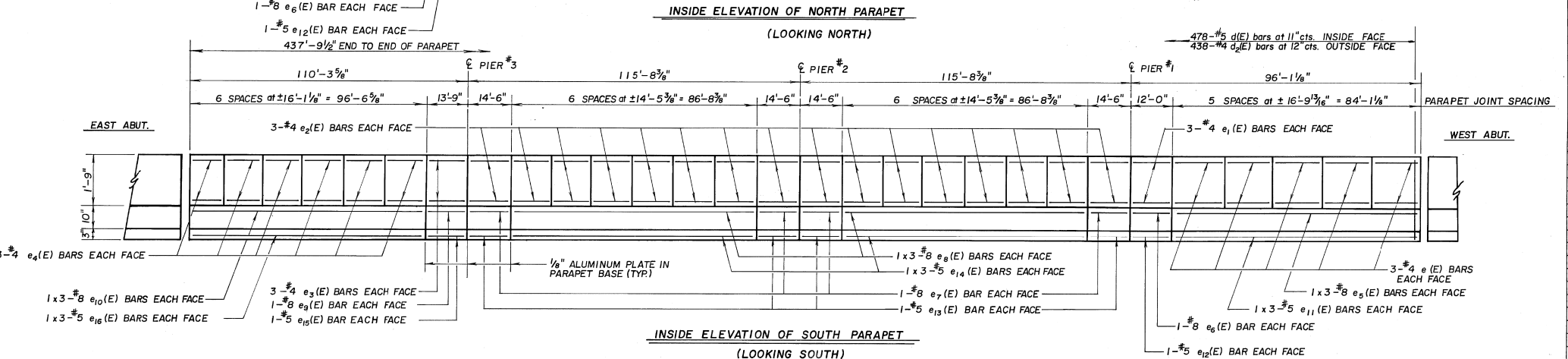
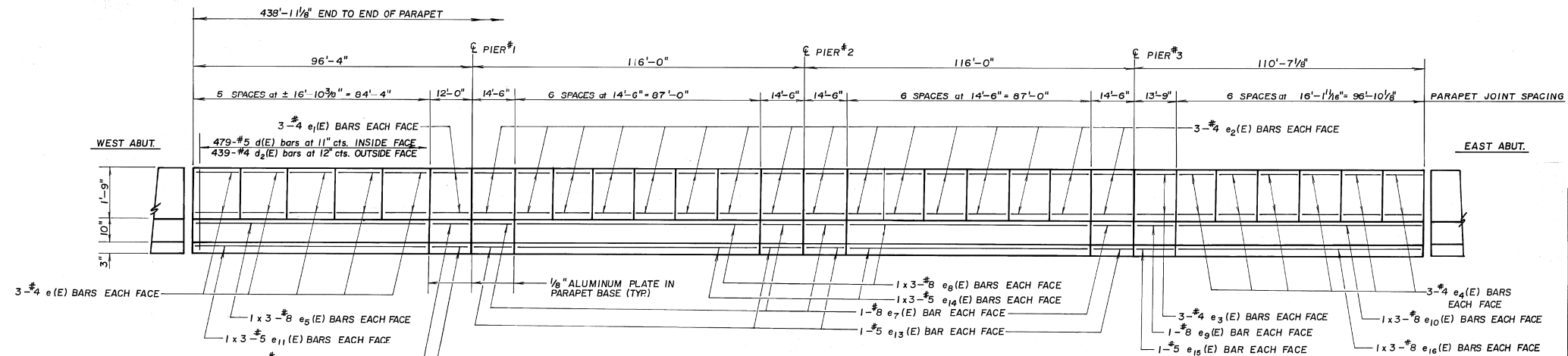
EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 10 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	259
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

F.A.I. ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	135

BR SHEET 9 OF 47
 * (50-2)HBR-1, HB-2, BR



SUPERSTRUCTURE

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	750	#5	20'-6"	
a1(E)	583	#5	18'-6"	
a2(E)	361	#5	34'-0"	
a3(E)	390	#5	29'-9"	
a4(E)	281	#5	36'-0"	
a5(E)	303	#5	31'-9"	
a6(E)	14	#7	27'-9"	
a7(E)	30	#6	6'-9"	
a8(E)	14	#7	23'-4"	
a9(E)	30	#6	5'-3"	
a10(E)	120	#5	2'-0"	
a11(E)	749	#6	4'-0"	
b(E)	770	#5	33'-4"	
b1(E)	720	#5	31'-3"	
b2(E)	300	#6	16'-3"	
b3(E)	600	#6	17'-5"	
d(E)	957	#5	3'-0"	
d1(E)	957	#5	2'-7"	
d2(E)	877	#4	3'-0"	
d3(E)	877	#4	2'-7"	
e(E)	60	#4	16'-7"	
e1(E)	12	#4	11'-9"	
e2(E)	192	#4	14'-3"	
e3(E)	12	#4	13'-6"	
e4(E)	72	#4	15'-10"	
e5(E)	12	#8	31'-0"	
e6(E)	4	#8	11'-9"	
e7(E)	16	#8	14'-3"	
e8(E)	24	#8	31'-11"	
e9(E)	4	#8	13'-6"	
e10(E)	12	#8	35'-2"	
e11(E)	12	#5	29'-5"	
e12(E)	4	#5	11'-9"	
e13(E)	16	#5	14'-3"	
e14(E)	24	#5	30'-4"	
e15(E)	4	#5	13'-6"	
e16(E)	12	#5	33'-8"	
m(E)	48	#4	6'-11"	
m1(E)	48	#4	6'-2"	
m2(E)	15	#8	6'-2"	
m3(E)	12	#6	5'-3"	
m4(E)	12	#6	4'-6"	
m5(E)	48	#4	6'-6"	
m6(E)	12	#6	4'-10"	
m7(E)	6	#8	4'-2"	
s7(E)	54	#4	15'-2"	
s8(E)	30	#4	15'-9"	
x(E)	162	#6	7'-5"	
CONCRETE SUPERSTRUCTURES			CU. YD.	792.9
REINFORCEMENT BARS (EPOXY COATED)			LBS.	175830

BAR LAPS

*5 BAR = 2'-2"
 *8 BAR = 4'-6"

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
 BARS INDICATED THUS 20 x 3 - #5 ETC. INDICATES 20 LINES OF BARS WITH 3 LENGTHS PER LINE.

SUPERSTRUCTURE DETAILS
 FAI ROUTE 80 SEC (50-2) BR
 LA SALLE COUNTY
 STRUCTURE NO. 050-0220
 STA. 672+19.43

(EASTBOUND STRUCTURE)

FOR
 INFORMATION
 ONLY

MODEL: Default
 FILE NAME: \\quigg\projects\2018\181018_Various Structure IDOT D3 Barisworth PTB 161-2-11\Work Order 14 - 1430 Roadway and other CADD\CADD Sheets\Existing Bridge Plans 0226-0229_055.dgn



USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE - 10/4/2019	REVISED -

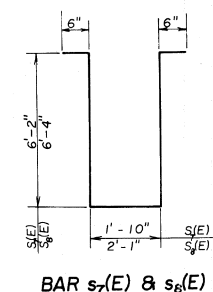
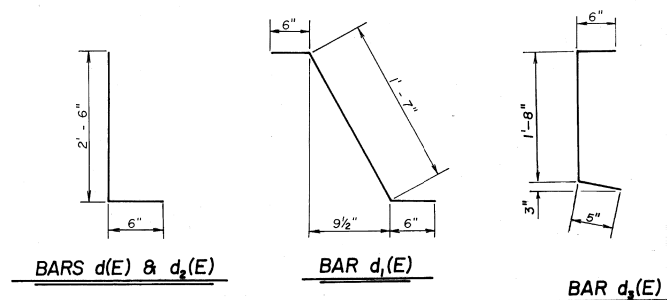
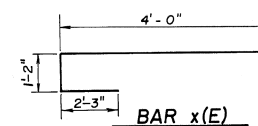
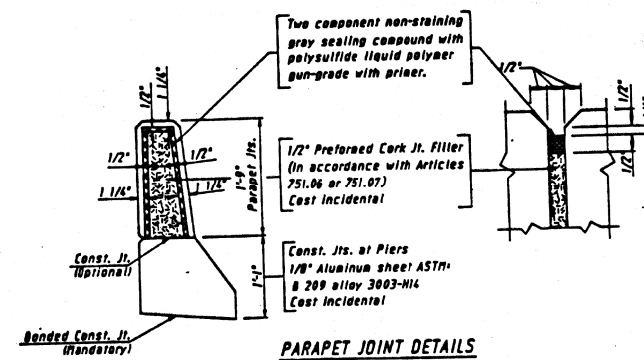
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
 STRUCTURE NO. 050-0220/0221

SCALE: SHEET 11 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	260
				CONTRACT NO. 66H21
ILLINOIS FED. AID PROJECT				

BR. SHEET 10 OF 47
• (50-2)HBR-1, HB-2, BR

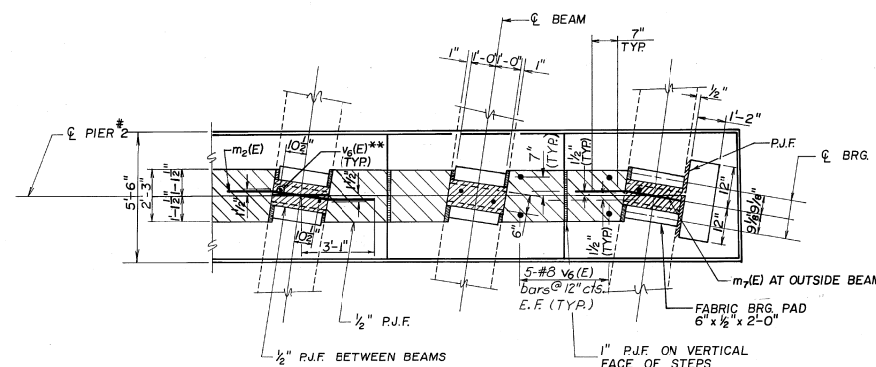
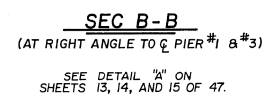
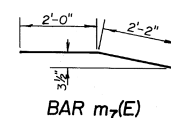
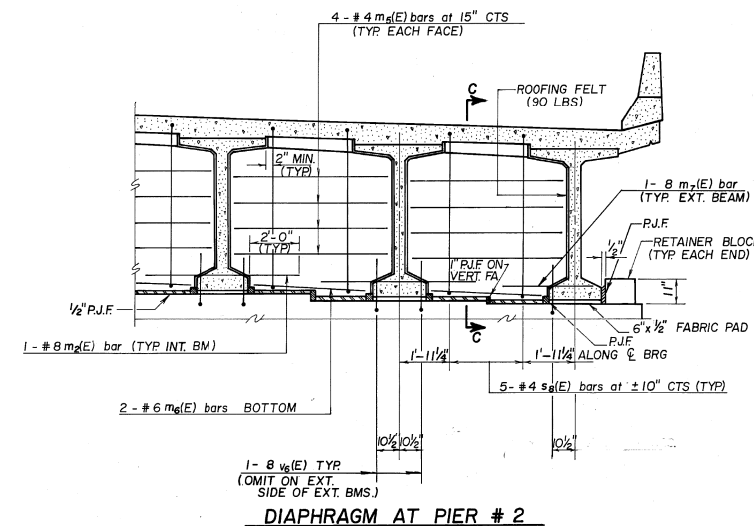
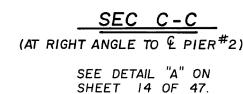
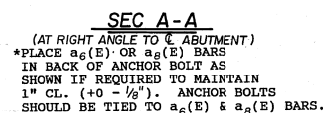


SUPERSTRUCTURE DETAILS
FAI ROUTE 80 SEC(50-2) BR
LA SALLE COUNTY
STRUCTURE NO. 050-0220
STA. 672+19.43

(EASTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

BR. SHEET 11 OF 47
* (50-2)HBR-1, HB-2, BR



NOTES: REINFORCEMENT BARS SHOWN ON THIS SHEET ARE INCLUDED
IN BILL OF MATERIALS ON SHEET #9 OF 47.
CONCRETE IN DIAPHRAGMS IDENTIFIED WITH "CONCRETE
SUPERSTRUCTURES" ON SHEET #9 OF 47.
FOR NEOPRENE EXPANSION JOINT DETAILS SEE SHEET #41
OF 47.
FOR DETAILS OF $s_7(E)$, $s_8(E)$, & $x(E)$ BARS SEE SHEET
#10 OF 47.

** BARS INCLUDED WITH BILL OF MATERIAL FOR PIER #2 SEE SHEET #20 OF 47.

DIAPHRAGM DETAILS
FAI ROUTE 80 SEC(50-2) BR
LA SALLE COUNTY
STRUCTURE NO. 050-0220
STA. 672+19.43

(EASTBOUND STRUCTURE)

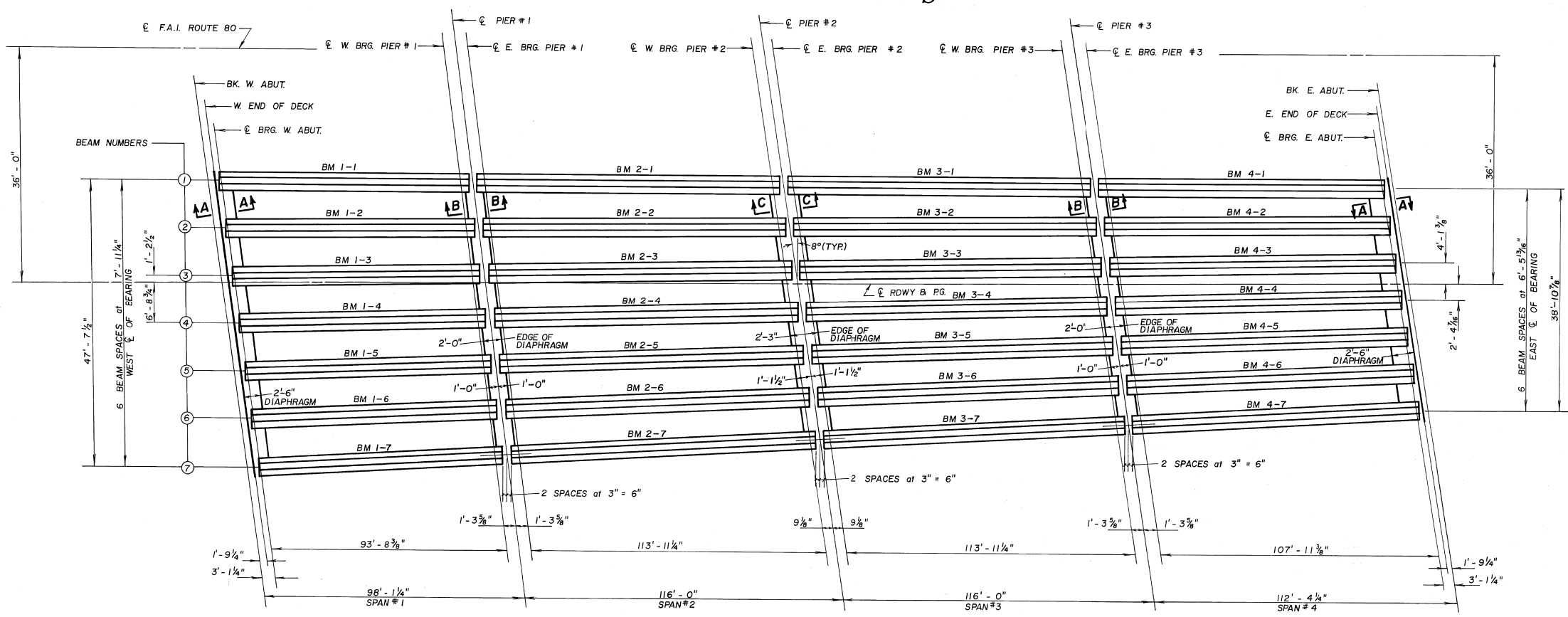
FOR
INFORMATION
ONLY

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F.A.I. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	138

BR. SHEET 12 OF 47
* (50-2)HBR-1, HB-2, BR



FRAMING PLAN

NOTE: BM 1-5 DENOTES SPAN #1 - BEAM #5.
SEE SHEETS 13, 14, & 15 OF 47 FOR BEAM LENGTHS.
FOR SECTIONS A-A, B-B, AND C-C SEE SHEET 11 OF 47.

FRAMING PLAN
FAI ROUTE 80 SEC(50-2) BR
LA SALLE COUNTY
STRUCTURE NO. 050-0220
STA. 672+19.43

(EASTBOUND STRUCTURE)

FOR
INFORMATION
ONLY



USER NAME = mwillson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

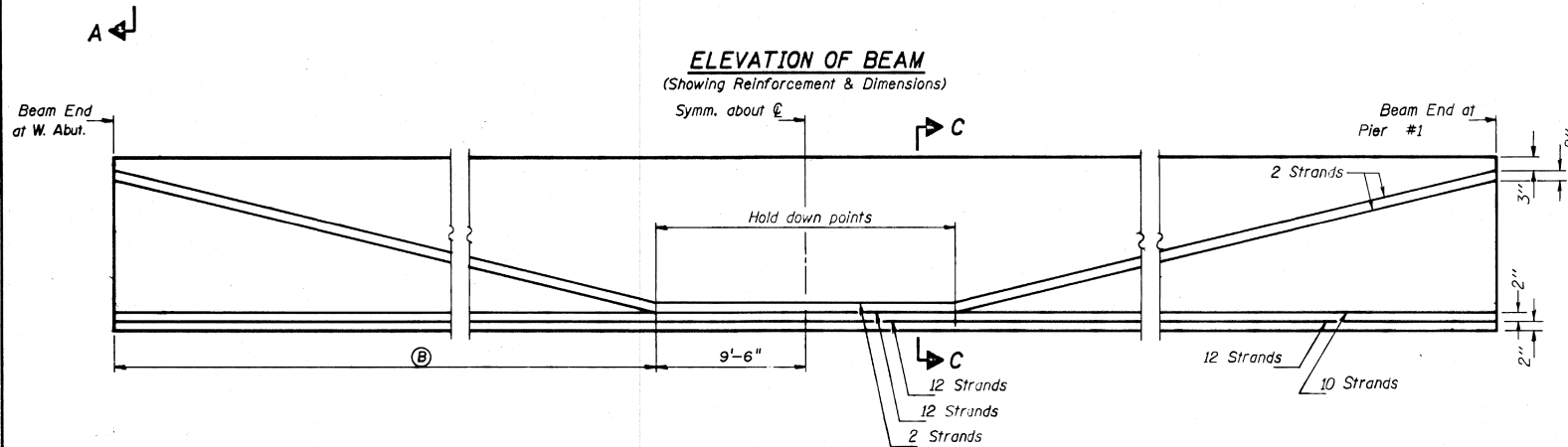
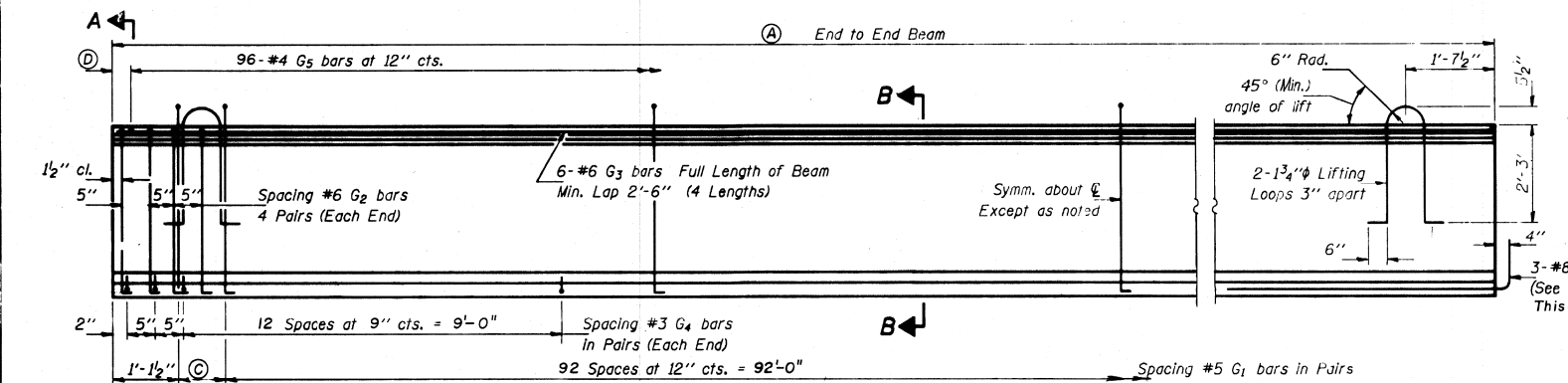
EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 14 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	263
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

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ROUTE NO.	SHEET NO.	COUNTY	DATE	BY	BR.
F.A.I. 80	139	LASALLE	196	139	SHEET NO. 13
SHEETS 47					



NOTES

All inserts, threaded dowel rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete Bulb T-Beams shall be included in the contract unit price per lineal foot of "Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 72."

Inserts for 3/4" threaded dowel rods are to be double strut, coil type for interior T-Beams and single coil, flared loop type for exterior T-Beams.

Prestressing steel shall be non-galvanized high strength, low relaxation 7-wire strand, Grade 270.

The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to AASHTO designation M-31, M-42 or M-53 Grade 60.

Steel for lifting loops shall be non-deformed bars fy = 40,000 psi.

Required release strength, f'ci, shall be 5000 psi.

* See Framing Plan For Beam Locations

BEAM NO.	(A)	(B)	(C)	(D)
1-1	95'-8"	38'-4"	8 1/2"	4"
1-2	95'-7 3/4"	38'-3 7/8"	8 3/8"	3 7/8"
1-3	95'-7 1/4"	38'-3 5/8"	8 1/8"	3 5/8"
1-4	95'-6 3/4"	38'-3 3/8"	7 7/8"	3 3/8"
1-5	95'-6"	38'-3"	7 1/2"	3"
1-6	95'-5 3/4"	38'-2 7/8"	7 3/8"	2 7/8"
1-7	95'-5 1/4"	38'-2 5/8"	7 1/8"	2 5/8"

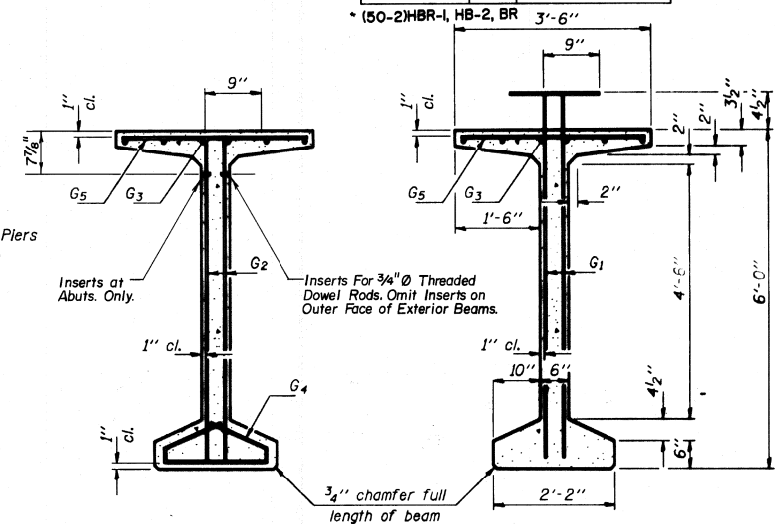
NOTE: Beam No. 1-5 Denotes Span 1 Beam 5

*TILT HOOK OF EXTERIOR BARS OF EXTERIOR BEAMS INWARD TO FIT WITHIN LIMITS OF CAST IN PLACE DIAPHRAGM.

**TIE m(E) AND m2(E) BARS TO G6 BARS WITH #9 WIRE TO PREVENT ANY MOVEMENT BETWEEN BARS.

DETAIL "A"

SEE SECTION B-B ON SHEET 11 OF 47 FOR ELEVATION VIEW OF DETAIL "A"



SECTION A-A

SECTION B-B

BAR G1

BAR G2

SECTION C-C

BAR LIST

Bar	No.	Size	Length	Shape
G1	190	#5	7'-9"	1L
G2	16	#6	6'-11"	1L
G3	24	#6	25'-10"	1L
G4	60	#3	3'-5"	1L
G5	96	#4	3'-3"	1L
G6	3	#8	4'-6"	1L

*** For one beam only.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 72"	FOOT	669

BEAM DETAILS - SPAN #1

F.A.I. RT. 80 SEC. (50-2)BR

LASALLE COUNTY

STRUCTURE NO. 050-0220

STA. 672 + 19.43

(EASTBOUND STRUCTURE)

FOR
INFORMATION
ONLY



QUIGG ENGINEERING INC.

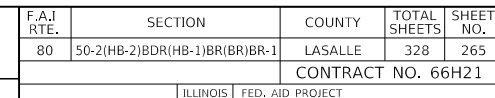
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DRAWN -	REVISED -	
PLOT SCALE = 2,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

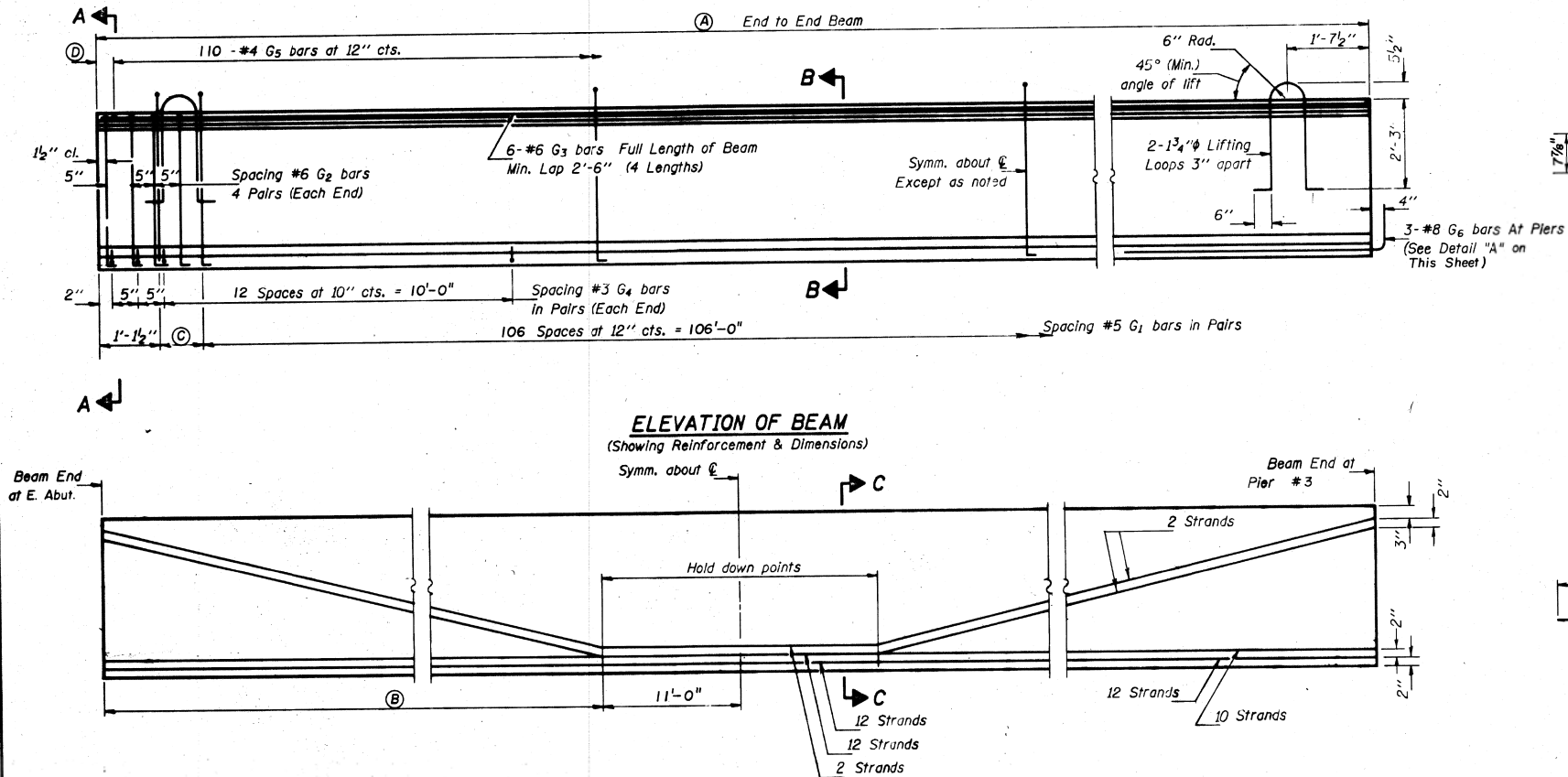
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 15 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	264
				CONTRACT NO. 66H21
ILLINOIS FED. AID PROJECT				





ELEVATION OF BEAM
(Showing Reinforcement & Dimensions)
Symm. about C

ELEVATION OF BEAM
(Showing Prestressing Steel)

NOTES

All inserts, threaded dowel rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete Bulb T-Beams shall be included in the contract unit price per lined foot of "Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 72".

Inserts for $\frac{3}{4}$ " threaded dowel rods are to be double strut, coil type for interior T-Beams and single coil, flared loop type for exterior T-Beams.

Prestressing steel shall be non-galvanized high strength, low relaxation 7-wire strand, Grade 270.

The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to AASHTO designation M-31, M-42 or M-53 Grade 60.

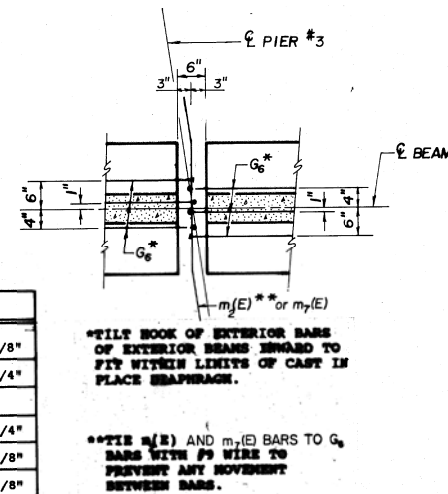
Steel for lifting loops shall be non-deformed bars $f_y = 40,000$ psi.

Required release strength, f'_{ci} , shall be 5000 psi.

* See Framing Plan For Beam Locations.

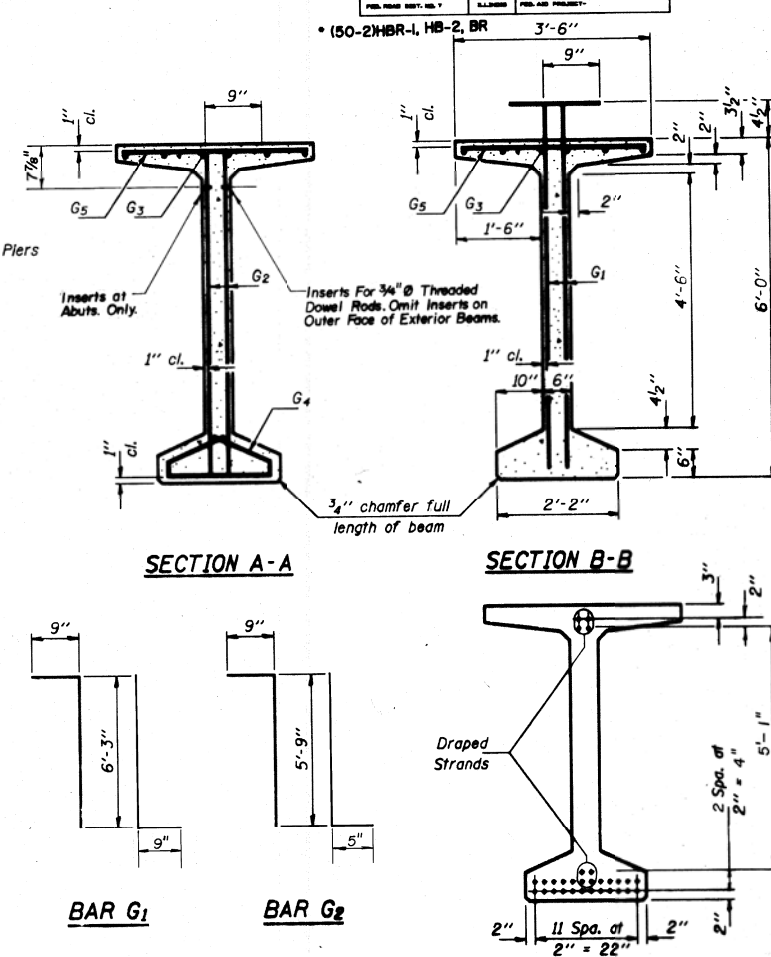
BEAM NO.*	(A)	(B)	(C)	(D)
4-1	109'-11 1/4"	43'-11 5/8"	10 1/8"	5 5/8"
4-2	109'-10 1/2"	43'-11 1/4"	9 3/4"	5 1/4"
4-3	109'-10"	43'-11"	9 1/2"	5"
4-4	109'-9 1/2"	43'-10 3/4"	9 1/4"	4 3/4"
4-5	109'-8 3/4"	43'-10 3/8"	8 7/8"	4 3/8"
4-6	109'-8 1/4"	43'-10 1/8"	8 5/8"	4 1/8"
4-7	109'-7 3/4"	43'-9 7/8"	8 3/8"	3 7/8"

NOTE: Beam No. 4-5 Denotes Span 4 Beam 5



DETAIL "A"

SEE SECTION B-B ON SHEET 11 OF 4
FOR ELEVATION VIEW OF DETAIL "A"



SECTION A-A

SECTION B-B

BAR G

BAR G

SECTION C-C

*** BAR LIST

Gr	No.	Size	Length	Shape
G ₁	218	#5	7'-9"	TL
G ₂	16	#6	6'-11"	TL
G ₃	24	#6	29'-4"	—
G ₄	60	#3	3'-5"	—
G ₅	110	#4	3'-3"	—
G ₆	3	#8	4'-6"	—

*** For one beam only.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 72"	FOOT	769

BEAM DETAILS - SPAN #4

F.A.I. RT. 80 SEC. (50-2) BR

LASALLE COUNTY

STRUCTURE NO. 050-0220

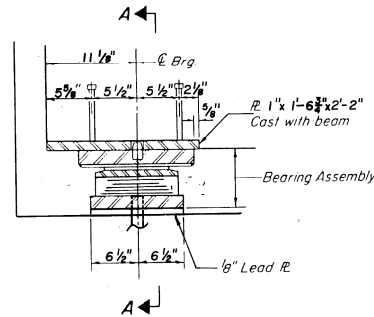
STA. 672+19.43

(EASTBOUND STRUCTURE)

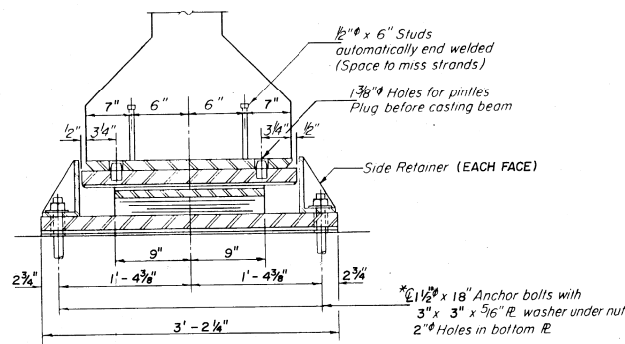
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	BR
FAI 80	*	LASALLE	196	142	SHEET NO. 16
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT			SHEETS 47

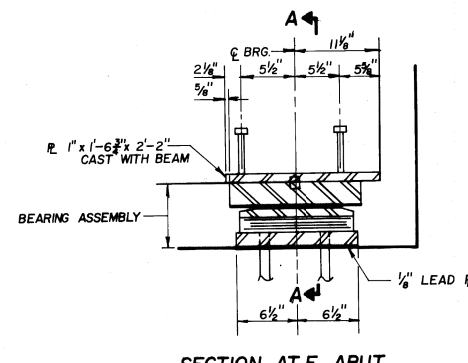
* (50-2)HBR-1, HB-2, BR



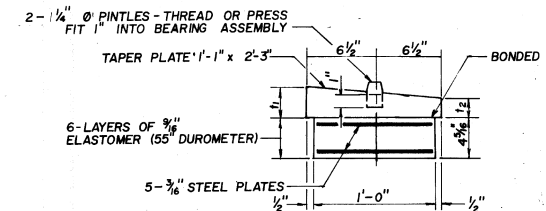
SECTION @ W ABUT.
(LOOKING NORTH)



SECTION A-A



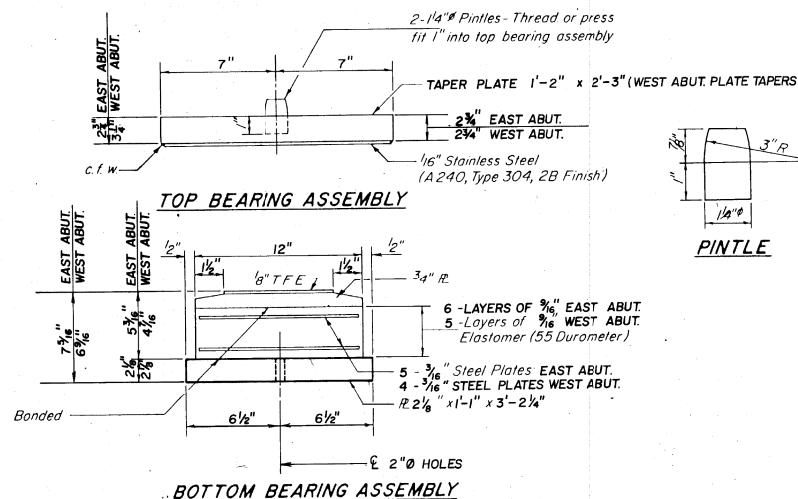
SECTION AT E ABUT.
(LOOKING NORTH)



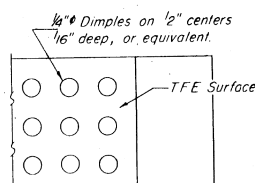
BEARING ASSEMBLY
NOTE: SHIM PLATES SHALL NOT BE PLACED UNDER BEARING ASSEMBLY (LOOKING NORTH)

TYPE II TFE ELASTOMERIC EXP. BRG. AT ABUTMENTS

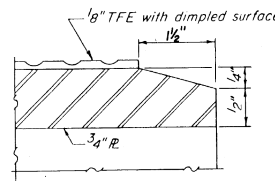
* NOTE: AFTER BEAMS HAVE BEEN ERECTED HOLES AT EXPANSION BEARINGS SHALL BE DRILLED AND ANCHOR BOLTS GROUTED IN PLACE. SEE SHEET 40 OF 47 FOR ANCHOR BOLT INSTALLATION.



PINTLE



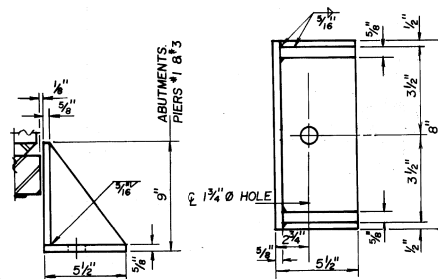
PLAN-TFE SURFACE



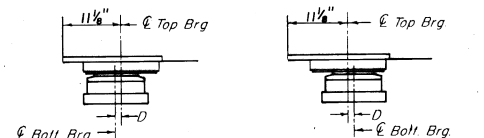
SECTION THRU TFE

Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



SIDE RETAINER
EQUIVALENT ROLLED ANGLE WITH STIFFENERS WILL BE ALLOWED IN LIEU OF WELDED PLATES.

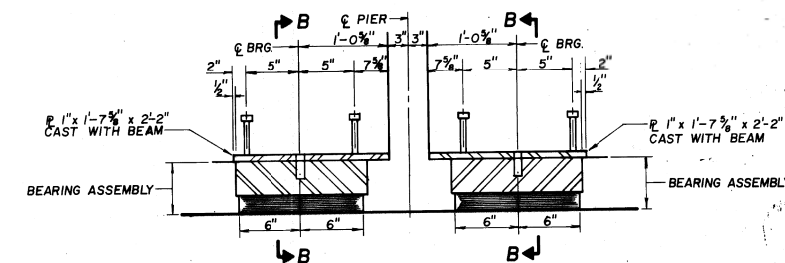


SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100' of expansion for every 15° temp change from the normal temp. of 50°F

ELASTOMERIC BEARING, TYPE I
TAPERED PLATE THICKNESS

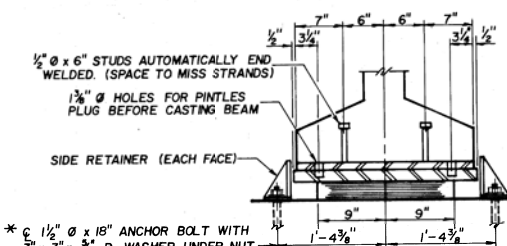
LOCATION	t ₁	t ₂
WEST BEARING PIER 1	4 1/8"	3 3/8"
EAST BEARING PIER 1	3 3/8"	3"
WEST BEARING PIER 3	3 3/8"	3 3/8"
EAST BEARING PIER 3	3 3/8"	3"



SECTION AT PIER
(LOOKING NORTH)

TYPE I ELASTOMERIC EXP. BRG. AT PIERS #1 & #3

* NOTE: AFTER BEAMS HAVE BEEN ERECTED HOLES AT EXPANSION BEARINGS SHALL BE DRILLED AND ANCHOR BOLTS GROUTED IN PLACE. SEE SHEET 40 OF 47 FOR ANCHOR BOLT INSTALLATION.



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	28
Elastomeric Bearing Assembly, Type II	Each	14
** Furnishing and Erecting Structural Steel	Lbs	5703

** INCLUDES SIDE RETAINERS AND ANCHOR BOLTS ONLY.

BEARING DETAILS
FAI ROUTE 80 SEC(50-2) BR
LASALLE COUNTY
STRUCTURE NO. 050-0220
STA. 672+19.43

(EASTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 18 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	267
				CONTRACT NO. 66H21

ILLINOIS FED. AID PROJECT

USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE = 10/4/2019	REVISED -

MODEL: Default
FILE NAME: \\quigg\projects\2018\181018_Various Structure IDOT D3 Barrasworth PTD 161-2-11\Work Order 14 - 1430 Roadway and other CADD\CADD Sheets\Existing Bridge Plans 0226-0229_063.dgn
DATE: 10/2/2019

USER NAME = mwilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 19 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	268
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

F.A.I. ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	143
ILLINOIS PROJECT				

* (50-2)HBR-1, HB-2, BR BR. SHEET 17 OF 47

GENERAL NOTES

THE FOUNDATIONS DRILLED "CAISSON SHAFTS" ARE ASSUMED TO EXTEND TO ELEVATION 565.0. BELOW THIS ELEVATION THE SPECIAL PROVISIONS FOR "CAISSON SHAFTS" APPLY. ABOVE THIS ELEVATION "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" APPLY. PERMANENT STEEL CASING IF USED WILL NOT BE PERMITTED ABOVE THE EXISTING GROUND SURFACE ELEVATIONS. COST OF "STEEL CASING" IS INCIDENTAL TO "CAISSON SHAFTS 36".

TIP ELEVATIONS MAY VARY DEPENDING ON FIELD CONDITIONS. QUANTITIES AND DETAILING ARE FOR THE ESTIMATED TIP ELEVATION. IF THE FINAL TIP ELEVATIONS ARE CHANGED DUE TO FIELD CONDITIONS, THE CAISSON SHAFT AND REINFORCEMENT SHALL BE ADJUSTED AS REQUIRED BY THE ENGINEER. THESE ADDITIONAL QUANTITIES REQUIRED BY THE ENGINEER AND FURNISHED BY THE CONTRACTOR WILL BE PAID FOR AT THE UNIT PRICE BID FOR THE WORK.

THE EXISTING WEST ABUTMENT FOOTING IS AT ELEVATION +574.0. SHALE WAS EXCAVATED FOR CONSTRUCTION OF THAT ABUTMENT AND IT IS NOT KNOWN HOW FAR WEST THE EXCAVATION EXTENDS OR AT WHAT SLOPE THE WEST WALL OF THE EXCAVATION WAS MADE TO. FOR THIS REASON DRILLED SHAFTS AT THE NEW ABUTMENT LOCATION MAY PARALLEL THE WEST WALL OF THE EXCAVATION. THE HORIZONTAL DISTANCE BETWEEN THE DRILLED SHAFTS AND THE WEST WALL OF THE EXCAVATION IS NOT KNOWN. THE OLD EXCAVATION PROBABLY WAS FILLED WITH SAND-SEE LOG OF BORING NO. 9 (DRILLED 8-13-92).

BILL OF MATERIAL

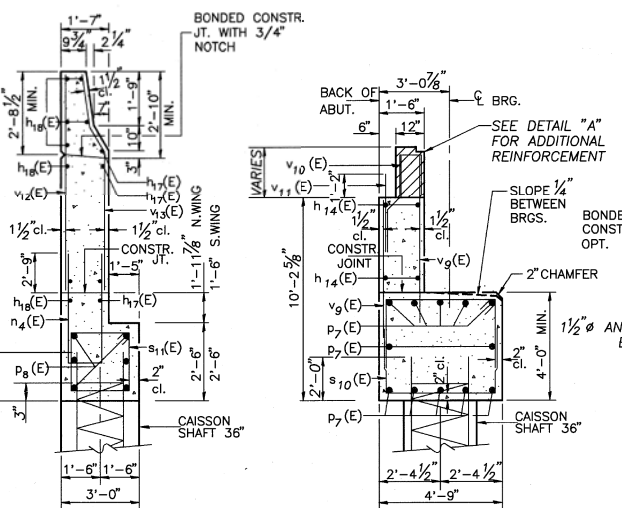
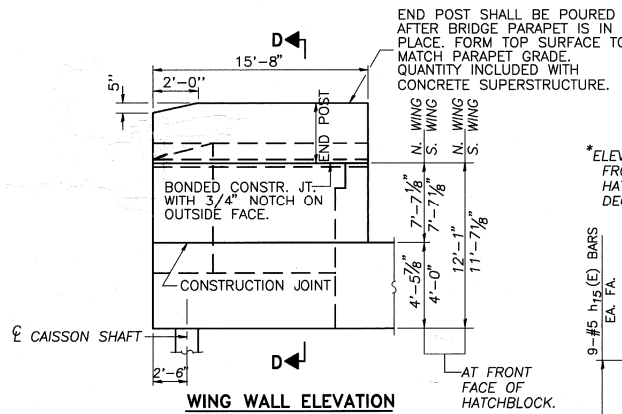
BAR	NO.	SIZE	LENGTH	SHAPE
h13(E)	6	#6	26'-3"	—
h14(E)	28	#5	28'-0"	—
h15(E)	18	#5	6'-6"	—
h16(E)	18	#5	6'-6"	—
h17(E)	20	#4	15'-4"	—
h18(E)	28	#4	15'-4"	—
h19(E)	6	#5	16'-0"	—
h20(E)	6	#5	24'-0"	—
h31(E)	2	#5	26'-3"	—
n4(E)	28	#6	13'-6"	—
n5(E)	12	#6	6'-9"	—
p7(E)	24	#7	28'-2"	—
p8(E)	12	#7	18'-4"	—
s10(E)	78	#4	10'-1"	□
s11(E)	28	#4	10'-5"	□
s14(E)	40	#5	7'-9"	□
* sp(E)	8	#5	25'-0"	WWW
u2(E)	10	#6	13'-5"	—
u5(E)	50	#5	3'-3"	□
v8(E)	100	#4	9'-3"	—
v10(E)	50	#4	3'-5"	—
v11(E)	50	#5	2'-8"	—
v12(E)	32	#6	10'-2"	—
v13(E)	28	#6	10'-2"	—
v14(E)	6	#6	9'-6"	—
v15(E)	168	#9	32'-9"	—
CONCRETE STRUCTURES	CU. YD.	84.7		
STRUCTURE EXCAVATION	CU. YD.	61		
REINFORCEMENT BARS (EPOXY COATED)	LBS.	30450		
CAISSON SHAFTS 36"	CU. FT.	1413		
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	95		

* LENGTH IS HEIGHT OF SPIRALS

** WEIGHT INCLUDES SPACERS FOR SPIRALS

WEST ABUTMENT
F.A.I. ROUTE 80 SEC.(50-2)BR
LASALLE COUNTY
STRUCTURE NO. 050-0220
STA. 672 + 19.43
(EASTBOUND STRUCTURE)

FOR
INFORMATION
ONLY



NOTES

ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFER EXCEPT AS SHOWN.

SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.

POUR STEPS MONOLITHICALLY WITH CAP.

HATCHED AREA TO BE POURED AFTER SUPERSTRUCTURE FORMS HAVE BEEN REMOVED. QUANTITY OF CONCRETE INCLUDED WITH "CONCRETE SUPERSTRUCTURE" ON SHEET # 9 OF 47.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

BARS INDICATED THUS 13x2-#5 ETC. INDICATES 13 LINES OF BARS WITH 2 LENGTHS PER LINE.

FOR ANCHOR BOLT INSTALLATION DETAILS SEE SHEET # 40 OF 47.

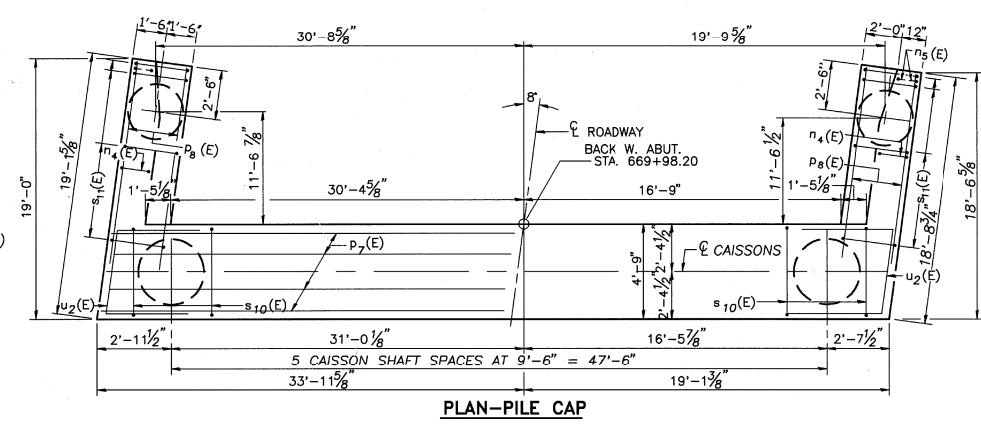
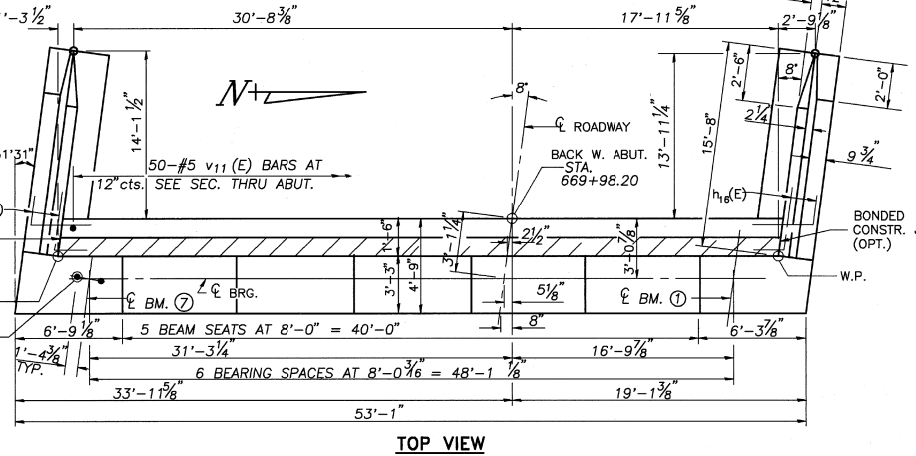
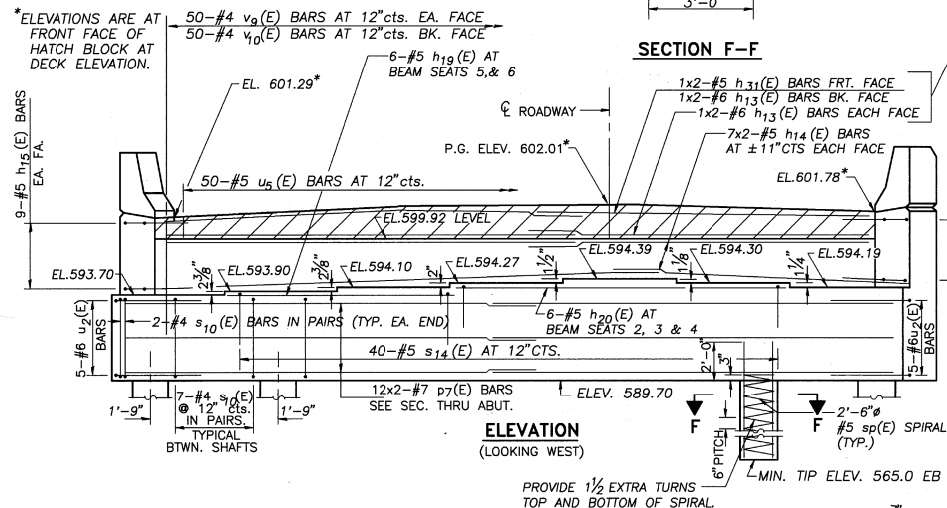
MINIMUM SPIRAL LAP = 1-1/2 TURNS.

DETAIL "A"

**PLACE h31(E) BAR IN BACK OF ANCHOR BOLT AS SHOWN IF REQUIRED TO MAINTAIN 1" CL. ANCHOR BOLTS SHOULD BE TIED TO h31(E) BARS.

FOUNDATION DATA

TYPE: CAISSON SHAFTS 36" Ø
CAPACITY: 112 TONS
MIN. LENGTH: 25 FEET
NO. REQUIRED: 8



SECTION F-F

ELEVATION
(LOOKING WEST)

PROVIDE 1/2 EXTRA TURNS
TOP AND BOTTOM OF SPIRAL

WING WALL ELEVATION
REINFORCEMENT

SEC. E-E

BAR h15(E)

BAR h17(E)

BARS s11(E)

BAR v13(E)

BAR LAPS

BAR v10(E)

BAR s10(E) & s14(E)

BAR n5(E)

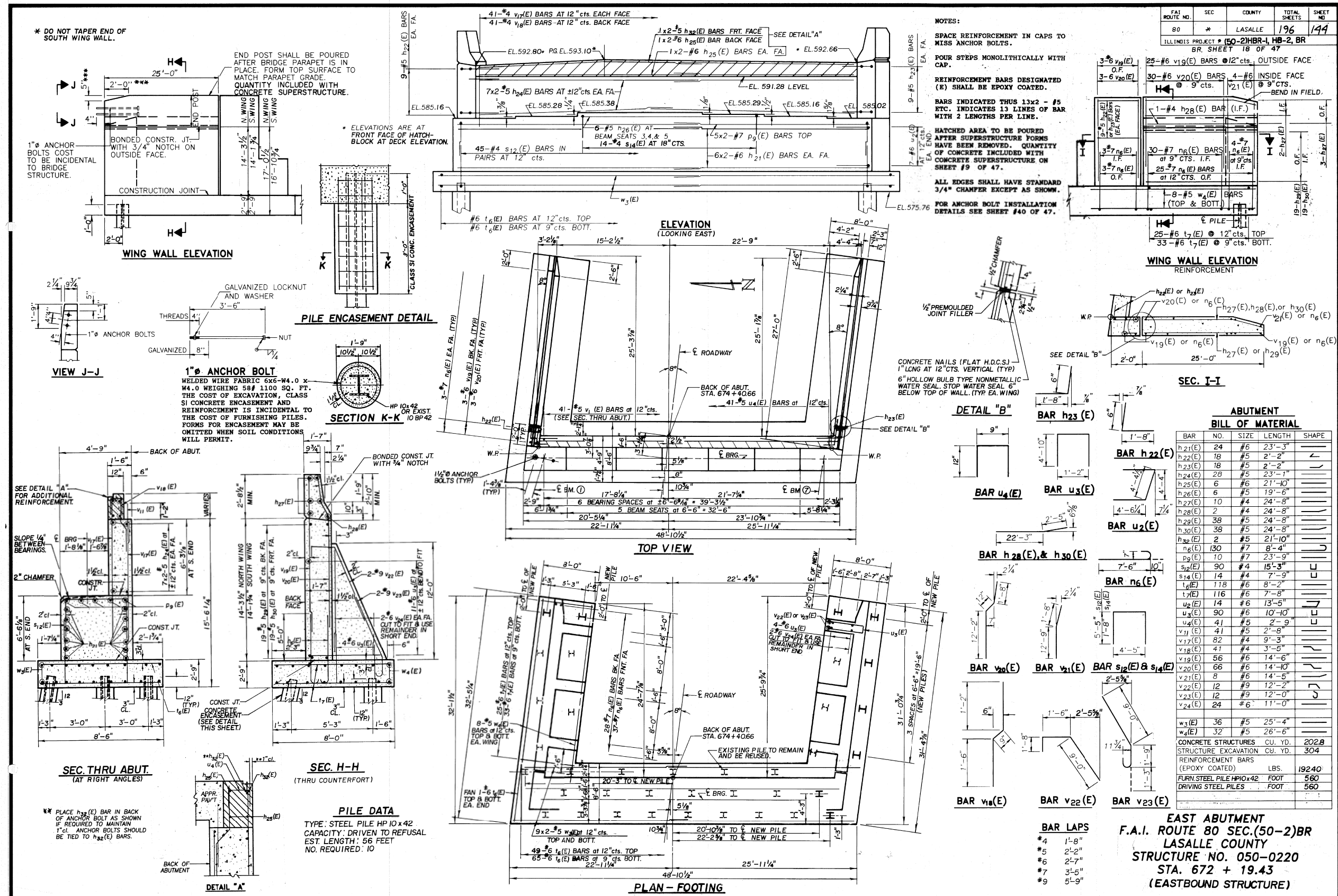
BAR n4(E)

BAR u2(E)

BAR v14(E)

BAR u5(E)

BAR v15(E)



FOR
INFORMATION
ONLY

MODEL Default
FILE Name: \\quigg\projects\2018\18101819 Varbus Structure IDOT D3 Banskworth PTB 161-211Work Order 14 - 1430 Roadway and otherCADD\CADD Sheets\Existing Bridge Plans\161-211Work Order 14 - 1430 Roadway and otherCADD\CADD Sheets\Existing Bridge Plans\0226-0229_065.dgn

FAI ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO
80	*	LASALLE	196	145

ILLINOIS PROJECT
BR. SHEET 19 OF 47
* (50-2)HBR-1, HB-2, BR

GENERAL NOTES

SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
FOUR STEPS MONOLITHICALLY WITH CAP.

ALL EDGES SHALL HAVE STANDARD $\frac{3}{4}$ " CHAMFERS EXCEPT AS NOTED.

CONCRETE FOR THE PIER FOOTING SHALL BE POURED AGAINST ROCK. NO FORMING IS REQUIRED DURING CONSTRUCTION OF THE PIER FOOTING.

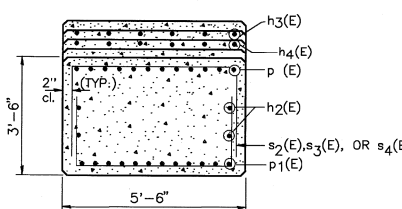
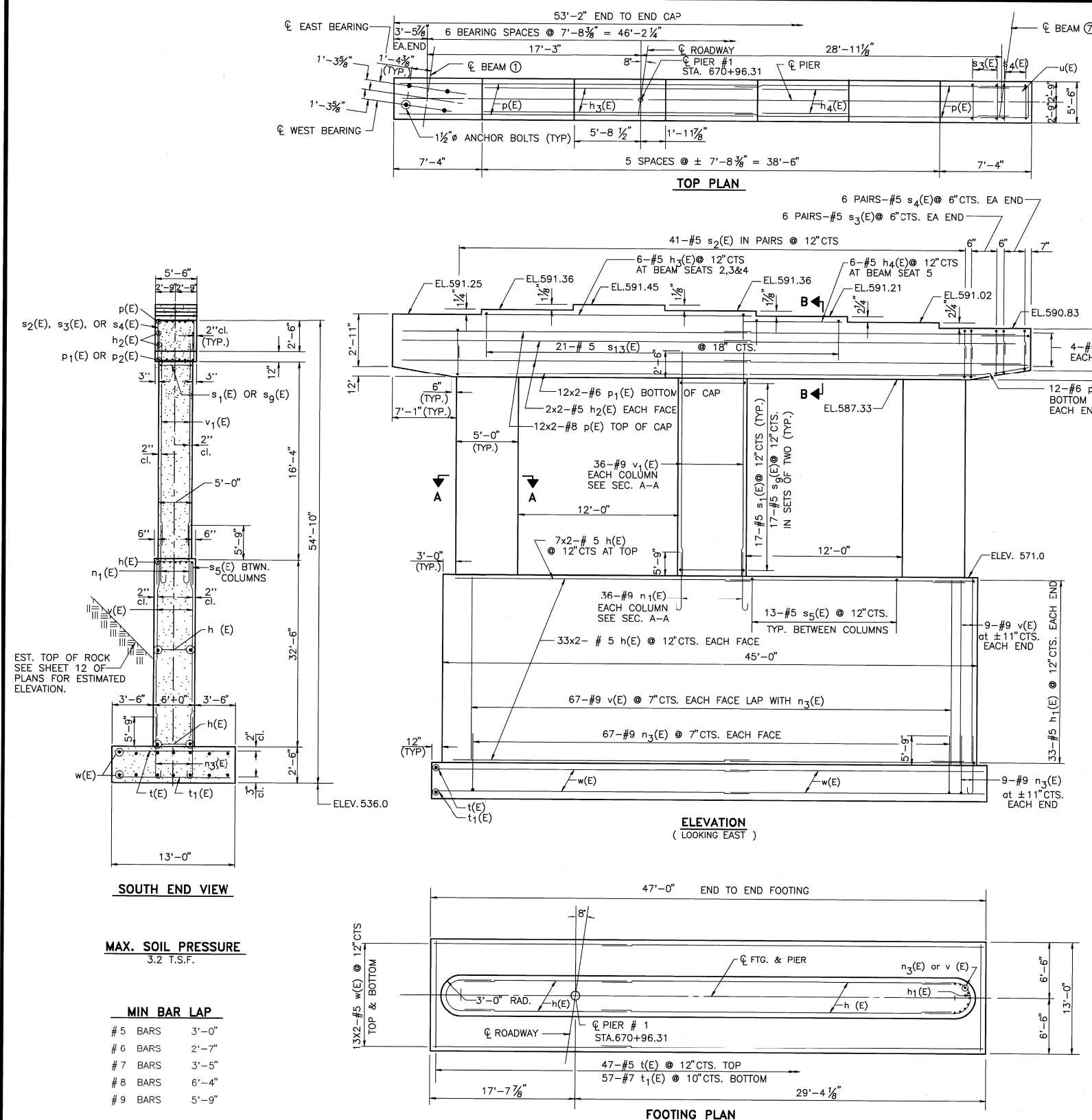
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

BARS INDICATED THUS 13x2-#5 ETC. INDICATES 13 LINES OF BARS WITH 2 LENGTHS PER LINE.

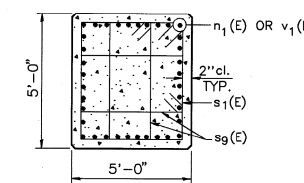
PIER FOOTINGS ARE TO BE SET ENTIRELY IN ROCK WITH A MINIMUM ADDITIONAL EMBEDMENT OF 12" IN REASONABLY SOUND ROCK, WHICHEVER IS DEEPER.

FOR ANCHOR BOLT INSTALLATION DETAILS SEE SHEET 40 OF 47.

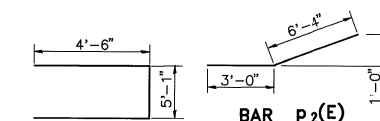
ESTIMATED TOP OF ROCK ELEVATIONS WERE AVERAGED FROM SOIL BORINGS ON EITHER SIDE OF THE PIER. THE LIMITS AND SLOPE OF THE WEST FACE OF THE ACTUAL EXCAVATION FROM ORIGINAL PIER CONSTRUCTION IS NOT KNOWN. IF THE FINAL FOOTING ELEVATIONS ARE CHANGED DUE TO FIELD CONDITIONS THE CONCRETE, REINFORCEMENT AND EXCAVATION QUANTITIES SHALL BE ADJUSTED AS REQUIRED BY THE ENGINEER. THESE ADJUSTED QUANTITIES REQUIRED BY THE ENGINEER AND FURNISHED BY THE CONTRACTOR WILL BE PAID FOR AT THE UNIT PRICE BID FOR THE WORK. THE ENGINEER IN ACCORDANCE WITH ARTICLE 502.03 OF THE STANDARD SPECIFICATIONS SHALL DETERMINE THE ELEVATION AT WHICH THE IN PLACE MATERIAL QUALIFIES AS ROCK ELEVATION.



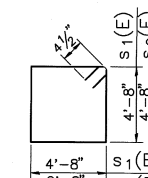
SEC. B-B



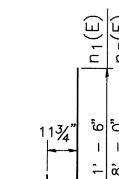
SEC. A-A



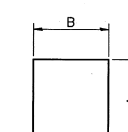
BAR u (E)



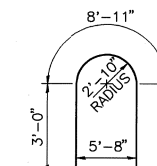
BAR s1(E) & s9(E)



BAR n1(E) & n3(E)



BAR s2(E), s3(E), s4(E), s5(E), & s13(E)



BAR h1(E)

BARS
A & B DIMENSIONS

Bar	A	B
s2(E)	2'-9"	5'-2"
s3(E)	2'-6"	5'-2"
s4(E)	2'-3"	5'-2"
s5(E)	3'-0"	5'-8"
s13(E)	2'-0"	5'-2"

BILL OF MATERIAL

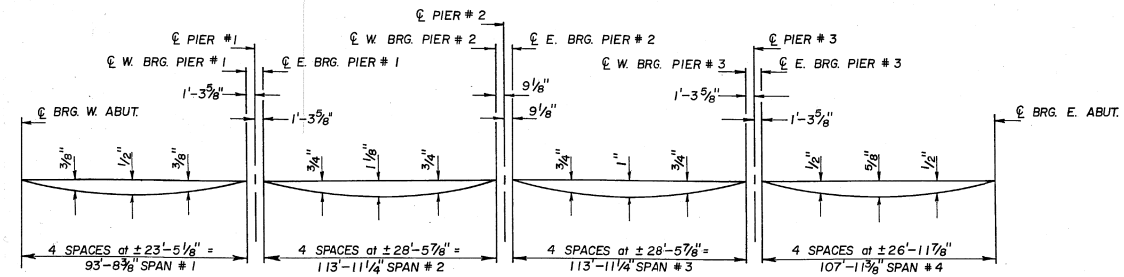
Bar	No.	Size	Length	Shape
h(E)	146	# 5	21'-0"	—
h1(E)	66	# 5	14'-11"	—
h2(E)	8	# 5	27'-11"	—
h3(E)	6	# 5	22'-9"	—
h4(E)	6	# 5	7'-8"	—
n1(E)	108	# 9	12'-9"	—
n3(E)	152	# 9	9'-3"	—
p(E)	24	# 8	29'-7"	—
p1(E)	24	# 6	21'-3"	—
p2(E)	24	# 6	9'-4"	—
s1(E)	51	# 5	19'-5"	—
s2(E)	82	# 5	10'-8"	—
s3(E)	24	# 5	10'-2"	—
s4(E)	24	# 5	9'-8"	—
s5(E)	26	# 5	11'-8"	—
s9(E)	102	# 5	15'-5"	—
s13(E)	21	# 5	9'-2"	—
t(E)	47	# 5	12'-8"	—
t1(E)	57	# 7	12'-8"	—
u(E)	8	# 6	14'-1"	—
v(E)	152	# 9	32'-4"	—
v1(E)	108	# 9	18'-10"	—
w(E)	52	# 5	24'-10"	—
CONCRETE STRUCTURES	CU. YD.		458.3	
REINFORCEMENT BARS	LBS.		48940	
EPOXY COATED				
BRACED EXCAVATION	CU. YD.		514	
ROCK EXCAVATION	CU. YD.		430	
FOR STRUCTURES				

PIER # 1
F.A.I. ROUTE 80 SEC.(50-2)BR
LASALLE COUNTY
STR. NO.050-0220
STA. 672+19.43
(EASTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

F.A.I. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	148

ILLINOIS PROJECT
BR. SHEET 22 OF 47
* (50-2)HBR-1, HB-2, BR



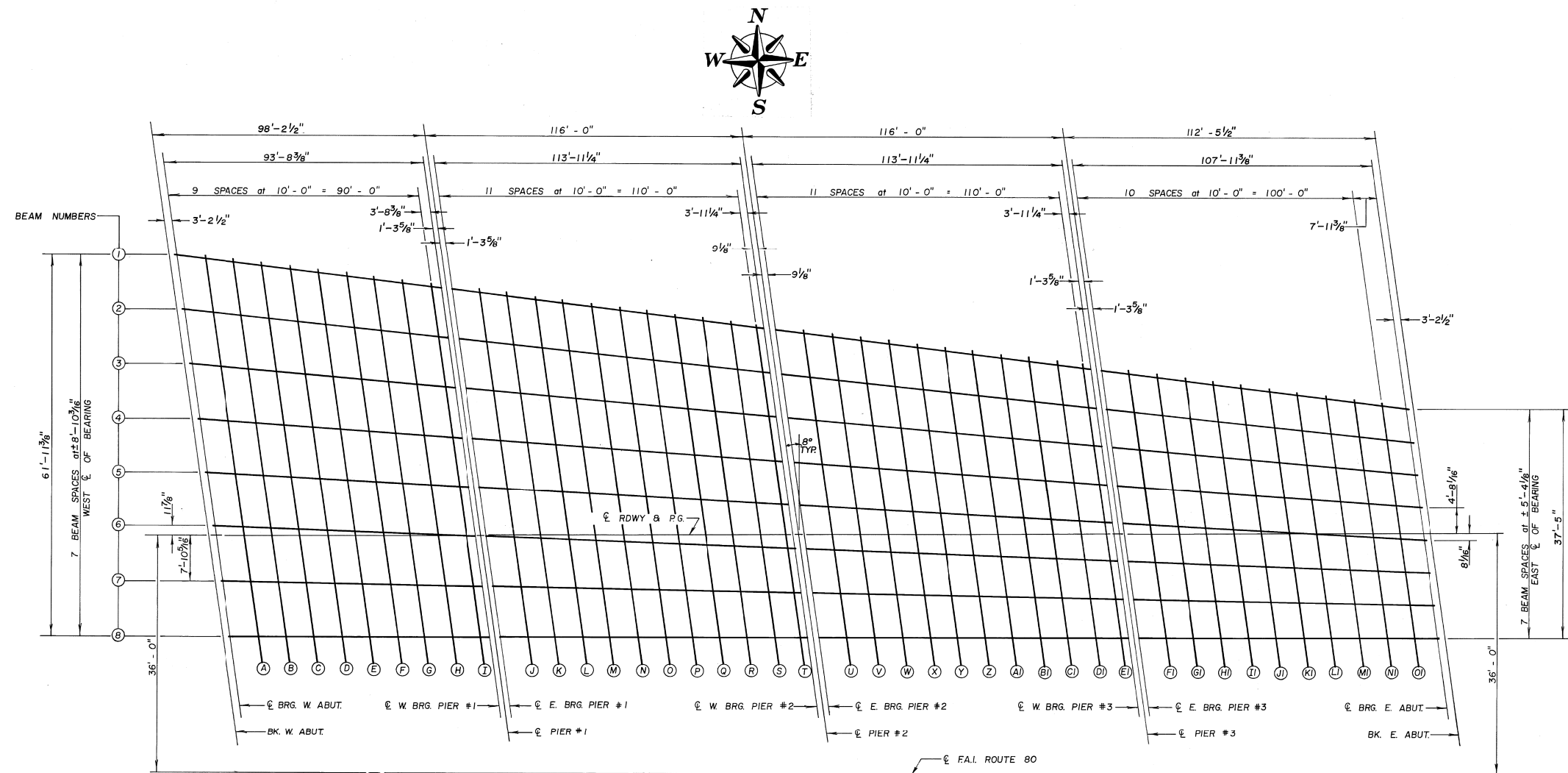
DEAD LOAD DEFLECTION DIAGRAM
(INCLUDES WEIGHT OF CONCRETE SLAB ONLY)

NOTE: THE ABOVE DEFLECTIONS ARE NOT TO BE USED IN THE FIELD IF THE ENGINEER IS WORKING FROM THE GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS AS SHOWN ON SHEETS 23,24, & 25 OF 47.



TO DETERMINE "c": AFTER ALL PRECAST PRESTRESSED BEAMS HAVE BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT INTERVALS SHOWN ON THIS SHEET AND SHEETS 23,24, & 25 OF 47. THESE ELEVATIONS SUBTRACTED FROM THE "THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS" MINUS SLAB THICKNESS, EQUALS THE FILLET HEIGHTS "c" ABOVE TOP FLANGES OF BEAMS.

FILLET HEIGHTS



PLAN

TOP OF SLAB ELEVATION
FAI. ROUTE 80 SEC (50-2) BR
LASALLE COUNTY
STRUCTURE NO. 050-0221
STA. 672+09.32

(WESTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

MODEL: Default
FILE NAME: \\quigg\projects\2018\10181018_Various Structure IDOT D3 Sarsworth PTB 161-2-11\Work Order 14 - 1430 Roadway and other\CADD\CADD Sheets\Existing Bridge Plans 0228-0229_0668.dgn

USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE - 10/4/2019	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	273
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

FAI ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	149
ILLINOIS PROJECT				

BR. SHEET 23 OF 47
* (50-2)HBR-1, HB-2, BR

WESTBOUND BEAM #1					WESTBOUND BEAM #2					WESTBOUND BEAM #3				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BK. W. ABUT.	66981.627	45.419	601.677	601.677	BK. W. ABUT.	66982.871	36.543	601.825	601.825	BK. W. ABUT.	66984.115	27.668	601.973	601.973
CL BRG. W. ABUT.	66984.832	45.240	601.585	601.585	CL BRG. W. ABUT.	66986.075	36.390	601.732	601.732	CL BRG. W. ABUT.	66987.319	27.540	601.879	601.879
A	66994.832	44.682	601.297	601.316	A	66996.075	35.911	601.442	601.461	A	66997.319	27.141	601.587	601.606
B	67004.832	44.124	601.008	601.044	B	67006.075	35.432	601.152	601.188	B	67007.319	26.741	601.295	601.331
C	67014.832	43.566	600.720	600.768	C	67016.075	34.954	600.862	600.910	C	67017.319	26.342	601.003	601.051
D	67024.832	43.008	600.432	600.488	D	67026.075	34.475	600.572	600.628	D	67027.319	25.942	600.711	600.767
E	67034.832	42.450	600.143	600.200	E	67036.075	33.996	600.282	600.339	E	67037.319	25.543	600.420	600.477
F	67044.832	41.892	599.855	599.907	F	67046.075	33.517	599.992	600.044	F	67047.319	25.144	600.129	600.181
G	67054.832	41.334	599.566	599.608	G	67056.075	33.039	599.702	599.744	G	67057.319	24.744	599.837	599.879
H	67064.832	40.777	598.278	598.305	H	67066.075	32.560	599.412	599.439	H	67067.319	24.345	599.542	599.569
I	67074.832	40.219	598.990	598.999	I	67076.075	32.081	599.122	599.131	I	67077.319	23.945	599.255	599.264
CL W. BRG. PIER #1	67079.268	39.971	598.864	598.864	CL W. BRG. PIER #1	67080.406	31.874	598.998	598.998	CL W. BRG. PIER #1	67081.544	23.777	599.134	599.134
CL. BRG. PIER #1	67080.582	39.898	598.826	598.826	CL. BRG. PIER #1	67081.719	31.811	598.961	598.961	CL. BRG. PIER #1	67082.855	23.724	599.096	599.096
CL E. BRG. PIER #1	67081.897	39.824	598.789	598.789	CL E. BRG. PIER #1	67083.032	31.748	598.924	598.924	CL E. BRG. PIER #1	67084.167	23.660	599.060	599.060
J	67091.897	39.266	598.510	598.541	J	67093.032	31.269	598.644	598.675	J	67094.167	23.261	598.779	598.810
K	67101.897	38.708	598.237	598.297	K	67103.032	30.790	598.370	598.430	K	67104.167	22.861	598.504	598.564
L	67111.897	38.150	597.971	598.055	L	67113.032	30.312	598.103	598.187	L	67114.167	22.462	598.236	598.320
M	67121.897	37.592	597.711	597.813	M	67123.032	29.833	597.842	597.944	M	67124.167	22.062	597.974	598.076
N	67131.897	37.034	597.457	597.569	N	67133.032	29.354	597.588	597.700	N	67134.167	21.663	597.718	597.830
O	67141.897	36.476	597.211	597.325	O	67143.032	28.875	597.340	597.454	O	67144.167	21.264	597.469	597.583
P	67151.897	35.918	596.969	597.076	P	67153.032	28.397	597.098	597.205	P	67154.167	20.864	597.226	597.333
Q	67161.897	35.361	596.735	596.828	Q	67163.032	27.918	596.862	596.955	Q	67164.167	20.465	596.990	597.083
R	67171.897	34.803	596.506	596.578	R	67173.032	27.439	596.633	596.705	R	67174.167	20.065	596.759	596.831
S	67181.897	34.245	596.284	596.330	S	67183.032	26.960	596.410	596.456	S	67184.167	19.666	596.536	596.582
T	67191.897	33.687	596.069	596.085	T	67193.032	26.482	596.193	596.209	T	67194.167	19.267	596.318	596.324
CL W. BRG. PIER #2	67196.736	33.417	595.966	595.966	CL W. BRG. PIER #2	67197.742	26.256	596.094	596.094	CL W. BRG. PIER #2	67198.748	19.096	596.220	596.220
CL BRG. PIER #2	67197.499	33.375	595.950	595.950	CL BRG. PIER #2	67198.505	26.220	596.077	596.077	CL BRG. PIER #2	67199.510	19.065	596.204	596.204
CL E. BRG. PIER #2	67198.262	33.332	595.934	595.934	CL E. BRG. PIER #2	67199.267	26.183	596.061	596.061	CL E. BRG. PIER #2	67200.272	19.035	596.188	596.188
U	67208.262	32.774	595.729	595.757	U	67209.267	25.704	595.855	595.883	U	67210.272	18.636	595.980	596.008
V	67218.262	32.216	595.529	595.582	V	67219.267	25.225	595.655	595.708	V	67220.272	18.236	595.779	595.832
W	67228.262	31.658	595.337	595.412	W	67229.267	24.747	595.461	595.536	W	67230.272	17.837	595.585	595.660
X	67238.262	31.100	595.151	595.241	X	67239.267	24.268	595.273	595.363	X	67240.272	17.437	595.396	595.486
Y	67248.262	30.542	594.970	595.069	Y	67249.267	23.789	595.092	595.191	Y	67250.272	17.038	595.213	595.312
Z	67258.262	29.984	594.797	594.898	Z	67259.267	23.310	594.917	594.018	Z	67260.272	16.639	595.038	595.139
A1	67268.262	29.426	594.629	594.724	A1	67269.267	22.832	594.749	594.844	A1	67270.272	16.239	594.869	594.964
B1	67278.262	28.869	594.468	594.551	B1	67279.267	22.353	594.587	594.670	B1	67280.272	15.840	594.705	594.788
C1	67288.262	28.311	594.314	594.378	C1	67289.267	21.874	594.431	594.495	C1	67290.272	15.440	594.549	594.613
D1	67298.262	27.753	594.164	594.205	D1	67299.267	21.395	594.282	594.323	D1	67300.272	15.041	594.398	594.439
E1	67308.262	27.195	594.023	594.037	E1	67309.267	20.917	594.139	594.153	E1	67310.272	14.642	594.254	594.268
CL W. BRG. PIER #3	67313.101	26.925	593.957	593.957	CL W. BRG. PIER #3	67313.977	20.692	594.073	594.073	CL W. BRG. PIER #3	67314.853	14.458	594.190	594.190
CL BRG. PIER #3	67314.416	26.852	593.938	593.938	CL BRG. PIER #3	67315.290	20.629	594.055	594.055	CL BRG. PIER #3	67316.165	14.406	594.172	594.172
CL E. BRG. PIER #3	67315.730	26.778	593.921	593.921	CL E. BRG. PIER #3	67316.604	20.566	594.037	594.037	CL E. BRG. PIER #3	67317.477	14.354	594.154	594.154
F1	67325.730	26.220	593.789	593.810	F1	67326.604	20.087	593.905	593.926	F1	67327.477	13.955	594.021	594.042
G1	67335.730	25.662	593.665	593.705	G1	67336.604	19.608	593.779	593.819	G1	67337.477	13.555	593.894	593.934
H1	67345.730	25.104	593.547	593.602	H1	67346.604	19.130	593.660	593.715	H1	67347.477	13.156	593.773	593.828
I1	67355.730	24.546	593.434	593.500	I1	67356.604	18.651	593.546	593.612	I1	67357.477	12.756	593.659	593.725
J1	67365.730	23.988	593.328	593.399	J1	67366.604	18.172	593.439	593.510	J1	67367.477	12.357	593.551	593.622
K1	67375.730	23.430	593.228	593.299	K1	67376.604	17.693	593.339	593.410	K1	67377.477	11.958	593.449	593.520
L1	67385.730	22.872	593.135	593.200	L1	67386.604	17.215	593.245	593.310	L1	67387.477	11.558	593.351	593.416
M1	67395.730	22.315	593.049	593.102	M1	67396.604	16.736	593.157	593.210	M1	67397.477	11.159	593.260	593.313
N1	67405.730	22.757	592.968	592.930	N1	67406.604	16.257	593.075	593.113	N1	67407.477	10.759	593.175	593.213
O1	67415.730	21.199	592.894	592.913	O1	67416.604	15.778	593.000	593.019	O1	67417.477	10.360	593.097	593.116
CL BRG. E. ABUT.	67424.529	20.708	592.834	592.834	CL BRG. E. ABUT.	67425.280	15.363	592.939	592.939	CL BRG. E. ABUT.	67426.032	10.018	593.034	593.034
BK. E. ABUT.	67427.733	20.529	592.813	592.813	BK. E. ABUT.	67428.485	15.210	592.919	592.919	BK. E. ABUT.	67429.236	9.890	593.012	593.012

TOP OF SLAB ELEVATIONS
F.A.I. ROUTE 80 SEC. (50-2)BR
LASALLE COUNTY
STR. NO. 050-0221
STA. 672+09.32
(WESTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

MODEL: Default
FILE NAME: \\quigg\projects\2018\181018_Various Structure IDOT D3 Barasworth PTB 161-2-11\Work Order 14 - 1430 Roadway and other CADD\CADD Sheets\Existing Bridge Plans 0226-0229_0669.dgn



USER NAME = mwilson	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 25 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	274
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

FAI ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	150
ILLINOIS PROJECT				

BR. SHEET 24 OF 47
* (50-2)HBR-1, HB-2, BR

WESTBOUND BEAM #4					WESTBOUND BEAM #5					WESTBOUND BEAM #6				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BK. W. ABUT.	66985.359	18.792	602.120	602.120	BK. W. ABUT.	66986.602	9.918	602.257		BK. W. ABUT.	66987.846	1.042	602.359	602.359
CL BRG. W. ABUT.	66988.563	18.690	602.026	602.026	CL BRG. W. ABUT.	66989.807	9.841	602.162	602.162	CL BRG. W. ABUT.	66989.050	0.991	602.263	602.263
A	66988.563	18.370	601.733	601.752	A	66999.807	9.601	601.866	601.885	A	67001.050	0.831	601.985	602.004
B	67008.563	18.050	601.439	601.475	B	67009.807	9.361	601.570	601.606	B	67011.050	0.670	601.668	601.704
C	67018.563	17.730	601.146	601.194	C	67019.807	9.120	601.273	601.321	C	67021.050	0.510	601.370	601.416
D	67028.563	17.410	600.853	600.909	D	67029.807	8.880	600.977	601.033	D	67031.050	0.350	601.073	601.129
E	67038.563	17.091	600.559	600.616	E	67039.807	8.640	600.681	600.738	E	67041.050	0.189	600.775	600.832
F	67048.563	16.771	600.266	600.318	F	67049.807	8.400	600.385	600.437	F	67051.050	0.029	600.478	600.530
G	67058.563	16.451	599.973	600.015	G	67059.807	8.160	600.088	600.130	G	67061.050	0.131	600.176	600.218
H	67068.563	16.131	599.680	599.707	H	67069.807	7.919	599.792	599.819	H	67071.050	0.291	599.373	599.900
I	67078.563	15.811	599.387	599.396	I	67079.807	7.679	599.498	599.507	I	67081.050	0.452	599.574	599.583
CL W. BRG. PIER #1	67082.681	15.679	599.269	599.269	CL W. BRG. PIER #1	67083.819	7.583	599.382	599.382	CL W. BRG. PIER #1	67084.957	0.514	599.458	599.458
CL. BRG. PIER #1	67083.992	15.637	599.232	599.232	CL. BRG. PIER #1	67085.128	7.551	599.344	599.344	CL. BRG. PIER #1	67086.265	0.535	599.420	599.420
CL E. BRG. PIER #1	67085.302	15.595	599.195	599.195	CL E. BRG. PIER #1	67086.437	7.520	599.305	599.305	CL E. BRG. PIER #1	67087.572	0.556	599.381	599.381
J	67095.302	15.275	598.913	598.944	J	67096.437	7.280	599.022	599.053	J	67097.572	0.716	599.093	599.124
K	67105.302	14.955	598.637	598.697	K	67106.437	7.040	598.744	598.804	K	67107.572	1.877	598.809	598.869
L	67115.302	14.635	598.368	598.452	L	67116.437	6.799	598.472	598.556	L	67117.572	1.037	598.532	598.616
M	67125.302	14.315	598.100	598.208	M	67126.437	6.559	598.208	598.310	M	67127.572	1.197	598.261	598.363
N	67135.302	13.996	597.849	597.961	N	67136.437	6.319	597.949	598.061	N	67137.572	1.358	597.998	598.110
O	67145.302	13.676	597.599	597.713	O	67146.437	6.079	597.697	597.811	O	67147.572	1.518	597.739	597.853
P	67155.302	13.356	597.354	597.461	P	67156.437	5.839	597.451	597.558	P	67157.572	1.678	597.488	597.595
Q	67165.302	13.036	597.117	597.210	Q	67166.437	5.598	597.211	597.304	Q	67167.572	1.838	597.243	597.346
R	67175.302	12.716	596.886	596.958	R	67176.437	5.358	596.978	597.050	R	67177.572	1.999	597.004	597.076
S	67185.302	12.396	596.661	596.707	S	67186.437	5.118	596.751	596.797	S	67187.572	2.159	596.771	596.817
T	67195.302	12.076	596.443	596.459	T	67196.437	4.878	596.530	596.546	T	67197.572	2.319	596.545	596.561
CL W. BRG. PIER #2	67199.755	11.934	596.347	596.347	CL W. BRG. PIER #2	67200.761	4.774	596.436	596.436	CL W. BRG. PIER #2	67201.768	2.387	596.452	596.452
CL BRG. PIER #2	67200.516	11.910	596.331	596.331	CL BRG. PIER #2	67201.521	4.756	596.421	596.421	CL BRG. PIER #2	67202.527	2.399	596.436	596.436
CL E. BRG. PIER #2	67201.276	11.886	596.314	596.314	CL E. BRG. PIER #2	67202.281	4.737	596.404	596.404	CL E. BRG. PIER #2	67203.286	2.411	596.418	596.418
U	67211.276	11.566	596.104	596.130	U	67212.281	4.497	596.194	596.220	U	67213.286	2.571	596.202	596.230
V	67221.276	11.246	595.900	595.953	V	67222.281	4.257	595.989	596.042	V	67223.286	2.732	595.992	596.045
W	67231.276	10.926	595.703	595.778	W	67232.281	4.016	595.792	595.867	W	67233.286	2.892	595.789	595.864
X	67241.276	10.606	595.512	595.602	X	67242.281	3.776	595.600	595.690	X	67243.286	3.052	595.591	595.681
Y	67251.276	10.287	595.327	595.426	Y	67252.281	3.536	595.414	595.513	Y	67253.286	3.213	595.400	595.499
Z	67261.276	9.967	595.148	595.249	Z	67262.281	3.296	595.235	595.336	Z	67263.286	3.373	595.215	595.316
A1	67271.276	9.647	594.976	595.071	A1	67272.281	3.056	595.063	595.158	A1	67273.286	3.533	595.037	595.132
B1	67281.276	9.327	594.810	594.893	B1	67282.281	2.815	594.896	594.979	B1	67283.286	3.693	594.865	594.948
C1	67291.276	9.007	594.651	594.715	C1	67292.281	2.575	594.735	594.799	C1	67293.286	3.854	594.699	594.763
D1	67301.276	8.687	594.497	594.538	D1	67302.281	2.335	594.582	594.623	D1	67303.286	4.014	594.539	594.580
E1	67311.276	8.367	594.351	594.365	E1	67312.281	2.095	594.434	594.448	E1	67313.286	4.174	594.387	594.401
CL W. BRG. PIER #3	67315.729	8.224	594.287	594.287	CL W. BRG. PIER #3	67316.605	1.991	594.372	594.372	CL W. BRG. PIER #3	67317.481	4.242	594.324	594.324
CL BRG. PIER #3	67317.039	8.183	594.269	594.269	CL BRG. PIER #3	67317.914	1.960	594.353	594.353	CL BRG. PIER #3	67318.789	4.263	594.305	594.305
CL E. BRG. PIER #3	67318.350	8.141	594.251	594.251	CL E. BRG. PIER #3	67319.223	1.929	594.335	594.335	CL E. BRG. PIER #3	67320.096	4.284	594.286	594.286
F1	67328.350	7.821	594.115	594.136	F1	67329.223	1.689	594.199	594.220	F1	67330.096	4.444	594.144	594.165
G1	67338.350	7.501	593.985	594.025	G1	67339.223	1.449	594.069	594.109	G1	67340.096	4.605	594.007	594.047
H1	67348.350	7.181	593.862	593.917	H1	67349.223	1.208	593.945	594.000	H1	67350.096	4.765	593.878	593.933
I1	67358.350	6.861	593.744	593.810	I1	67359.223	0.968	593.826	593.892	I1	67360.096	4.925	593.754	593.820
J1	67368.350	6.542	593.634	593.705	J1	67369.223	0.728	593.715	593.786	J1	67370.096	5.086	593.637	593.708
K1	67378.350	6.222	593.529	593.600	K1	67379.223	0.488	593.610	593.681	K1	67380.096	5.246	593.526	593.597
L1	67388.350	5.902	593.431	593.496	L1	67389.223	0.248	593.511	593.576	L1	67390.096	5.406	593.422	593.487
M1	67398.350	5.582	593.339	593.392	M1	67399.223	0.007	593.417	593.470	M1	67400.096	5.566	593.323	593.375
N1	67408.350	5.262	593.254	593.292	N1	67409.223	0.233	593.324	593.362	N1	67410.096	5.727	593.232	593.270
O1	67418.350	4.942	593.175	593.194	O1	67419.223	0.473	593.237	593.256	O1	67420.096	5.887	593.145	593.164
CL BRG. E. ABUT.	67426.783	4.672	593.112	593.112	CL BRG. E. ABUT.	67427.534	0.673	593.169	593.169	CL BRG. E. ABUT.	67428.285	6.018	593.080	593.080
BK. E. ABUT.	67429.987	4.569	593.091	593.091	BK. E. ABUT.	67430.738	0.750	593.144	593.144	BK. E. ABUT.	67431.490	6.069	593.056	593.056

TOP OF SLAB ELEVATIONS
F.A.I. ROUTE 80 SEC. (50-2)BR
LASALLE COUNTY
STR. NO. 050-0221
STA. 672+09.32
(WESTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

MODEL Default
FILE Name: \\g:\projects\2018\181018_Various Structure IDOT D3 Earsworth PTB 161-2-11Work Order 14 - 1430 Roadway and other CADD\CADD Sheets\Existing Bridge Plans 0226-0229_070.dgn



USER NAME = mwilson	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 26 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	275
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

FAI ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	151
ILLINOIS PROJECT				

BR. SHEET 25 OF 47
* (50-2)HBR-1, HB-2, BR

WESTBOUND CENTERLINE ROADWAY & P.G.					WESTBOUND BEAM #1					WESTBOUND BEAM #2				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BK. W. ABUT.	66987.980	0.000	602.370	602.371	BK. W. ABUT.	66989.090	7.833	602.215	602.215	BK. W. ABUT.	66990.333			602.014
CL BRG. W. ABUT.	66991.188	0.000	602.274	602.274	CL BRG. W. ABUT.	66992.294	7.859	602.118	602.118	CL BRG. W. ABUT.	66993.538	16.708	601.918	601.918
A	67001.188	0.000	601.974	601.993	A	67002.294	7.939	601.817	601.836	A	67003.538	16.708	601.618	601.637
B	67011.188	0.000	601.674	601.710	B	67012.294	8.019	601.516	601.552	B	67013.538	16.708	601.318	601.354
C	67021.188	0.000	601.374	601.422	C	67022.294	8.100	601.214	601.262	C	67023.538	16.708	601.018	601.066
D	67031.188	0.000	601.074	601.130	D	67032.294	8.180	600.913	600.969	D	67033.538	16.708	600.718	600.774
E	67041.188	0.000	600.774	600.831	E	67042.294	8.260	600.612	600.669	E	67043.538	16.708	600.418	600.474
F	67051.188	0.000	600.474	600.526	F	67052.294	8.340	600.311	600.363	F	67053.538	16.708	600.218	600.274
G	67061.188	0.000	600.174	600.216	G	67062.294	8.421	600.009	600.051	G	67063.538	16.708	599.918	599.960
H	67071.188	0.000	599.874	599.901	H	67072.294	8.501	599.708	599.735	H	67073.538	16.708	599.618	599.645
I	67081.188	0.000	599.577	599.586	I	67082.294	8.581	599.411	599.420	I	67083.538	16.708	599.322	599.331
CL W. BRG. PIER #1	67084.886	0.000	599.468	599.469	CL W. BRG. PIER #1	67086.095	8.612	599.298	599.298	CL W. BRG. PIER #1	67087.233	16.708	599.114	599.114
CL BRG. PIER #1	67086.188	0.000	599.430	599.431	CL BRG. PIER #1	67087.401	8.622	599.260	599.260	CL BRG. PIER #1	67088.538	16.708	599.077	599.077
CL E. BRG. PIER #1	67087.490	0.000	599.392	599.393	CL E. BRG. PIER #1	67088.707	8.633	599.223	599.223	CL E. BRG. PIER #1	67089.842	16.708	599.039	599.039
J	67097.490	0.000	599.105	599.137	J	67098.707	8.713	598.935	598.966	J	67099.842	16.708	598.753	598.784
K	67107.490	0.000	598.825	598.885	K	67108.707	8.793	598.654	598.714	K	67109.842	16.708	598.474	598.534
L	67117.490	0.000	598.545	598.605	L	67118.707	8.874	598.374	598.434	L	67119.842	16.708	598.201	598.261
M	67127.490	0.000	598.282	598.345	M	67128.707	8.954	598.110	598.170	M	67129.842	16.708	597.934	598.006
N	67137.490	0.000	598.020	598.083	N	67138.707	9.034	597.848	597.908	N	67139.842	16.708	597.674	597.734
O	67147.490	0.000	597.765	597.827	O	67148.707	9.114	597.593	597.653	O	67149.842	16.708	597.420	597.480
P	67157.490	0.000	597.516	597.578	P	67158.707	9.194	597.342	597.402	P	67159.842	16.708	597.173	597.233
Q	67167.490	0.000	597.273	597.335	Q	67168.707	9.274	597.099	597.159	Q	67169.842	16.708	596.931	596.991
R	67177.490	0.000	597.037	597.099	R	67178.707	9.354	596.863	596.923	R	67179.842	16.708	596.696	596.756
S	67187.490	0.000	596.806	596.868	S	67188.707	9.434	596.632	596.692	S	67189.842	16.708	596.468	596.528
T	67197.490	0.000	596.583	596.599	T	67198.707	9.514	596.407	596.423	T	67199.842	16.708	596.245	596.261
CL W. BRG. PIER #2	67201.428	0.000	596.496	596.497	CL W. BRG. PIER #2	67202.774	9.548	596.318	596.318	CL W. BRG. PIER #2	67203.780	16.708	596.160	596.160
CL BRG. PIER #2	67202.188	0.000	596.480	596.480	CL BRG. PIER #2	67203.532	9.554	596.302	596.302	CL BRG. PIER #2	67204.538	16.708	596.143	596.143
CL E. BRG. PIER #2	67202.948	0.000	596.463	596.464	CL E. BRG. PIER #2	67204.290	9.560	596.286	596.286	CL E. BRG. PIER #2	67205.295	16.708	596.127	596.127
U	67212.948	0.000	596.249	596.278	U	67214.290	9.640	596.070	596.098	U	67215.295	16.708	595.914	595.940
V	67222.948	0.000	596.041	596.095	V	67224.290	9.720	595.862	595.915	V	67225.295	16.708	595.708	595.761
W	67232.948	0.000	595.840	595.915	W	67234.290	9.801	595.661	595.736	W	67235.295	16.708	595.508	595.583
X	67242.948	0.000	595.645	595.735	X	67244.290	9.881	595.466	595.556	X	67245.295	16.708	595.314	595.404
Y	67252.948	0.000	595.456	595.556	Y	67254.290	9.961	595.276	595.375	Y	67255.295	16.708	595.127	595.226
Z	67262.948	0.000	595.274	595.375	Z	67264.290	10.041	595.093	595.194	Z	67265.295	16.708	594.946	595.047
A1	67272.948	0.000	595.098	595.193	A1	67274.290	10.122	594.917	595.012	A1	67275.295	16.708	594.772	594.867
B1	67282.948	0.000	594.928	595.110	B1	67284.290	10.202	594.747	594.830	B1	67285.295	16.708	594.603	594.686
C1	67292.948	0.000	594.764	594.828	C1	67294.290	10.282	594.582	594.666	C1	67295.295	16.708	594.441	594.505
D1	67302.948	0.000	594.607	594.649	D1	67304.290	10.362	594.428	594.466	D1	67305.295	16.708	594.286	594.327
E1	67312.948	0.000	594.456	594.472	E1	67314.290	10.443	594.274	594.288	E1	67315.295	16.708	594.136	594.150
CL W. BRG. PIER #3	67316.886	0.000	594.399	594.399	CL W. BRG. PIER #3	67318.357	10.475	594.214	594.214	CL W. BRG. PIER #3	67319.233	16.708	594.079	594.079
CL BRG. PIER #3	67318.188	0.000	594.380	594.380	CL BRG. PIER #3	67319.663	10.485	594.195	594.195	CL BRG. PIER #3	67320.538	16.708	594.061	594.061
CL E. BRG. PIER #3	67319.490	0.000	594.361	594.362	CL E. BRG. PIER #3	67320.969	10.496	594.176	594.176	CL E. BRG. PIER #3	67321.842	16.708	594.042	594.042
F1	67329.490	0.000	594.221	594.242	F1	67330.969	10.576	594.036	594.057	F1	67331.842	16.708	593.903	593.924
G1	67339.490	0.000	594.087	594.127	G1	67340.969	10.656	593.901	593.941	G1	67341.842	16.708	593.770	593.810
H1	67349.490	0.000	593.959	594.014	H1	67350.969	10.737	593.773	593.828	H1	67351.842	16.708	593.644	593.699
I1	67359.490	0.000	593.837	593.904	I1	67360.969	10.817	593.652	593.718	I1	67361.842	16.708	593.524	593.590
J1	67369.490	0.000	593.722	593.794	J1	67370.969	10.897	593.536	593.607	J1	67371.842	16.708	593.411	593.482
K1	67379.490	0.000	593.614	593.685	K1	67380.969	10.977	593.427	593.498	K1	67381.842	16.708	593.303	593.374
L1	67389.490	0.000	593.511	593.577	L1	67390.969	11.058	593.324	593.389	L1	67391.842	16.708	593.203	593.268
M1	67399.490	0.000	593.415	593.459	M1	67400.969	11.138	593.228	593.281	M1	67401.842	16.708	593.108	593.161
N1	67409.490	0.000	593.325	593.364	N1	67410.969	11.218	593.138	593.176	N1	67411.842	16.708	593.020	593.058
O1	67419.490	0.000	593.242	593.261	O1	67420.969	11.298	593.054	593.073	O1	67421.842	16.708	592.930	592.957
CL BRG. E. ABUT.	67427.438	0.000	593.180	593.180	CL BRG. E. ABUT.	67429.036	11.363	592.991	592.991	CL BRG. E. ABUT.	67429.788	16.708	592.877	592.877
BK. E. ABUT.	67430.646	0.000	593.156	593.157	BK. E. ABUT.	67432.241	11.389	592.967	592.967	BK. E. ABUT.	67432.992		592.854	592.854

TOP OF SLAB ELEVATIONS
F.A.I. ROUTE 80 SEC. (50-2)BR
LASALLE COUNTY
STR. NO. 050-0221
STA. 672+09.32
(WESTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

MODEL Default
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USER NAME = mwilson	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

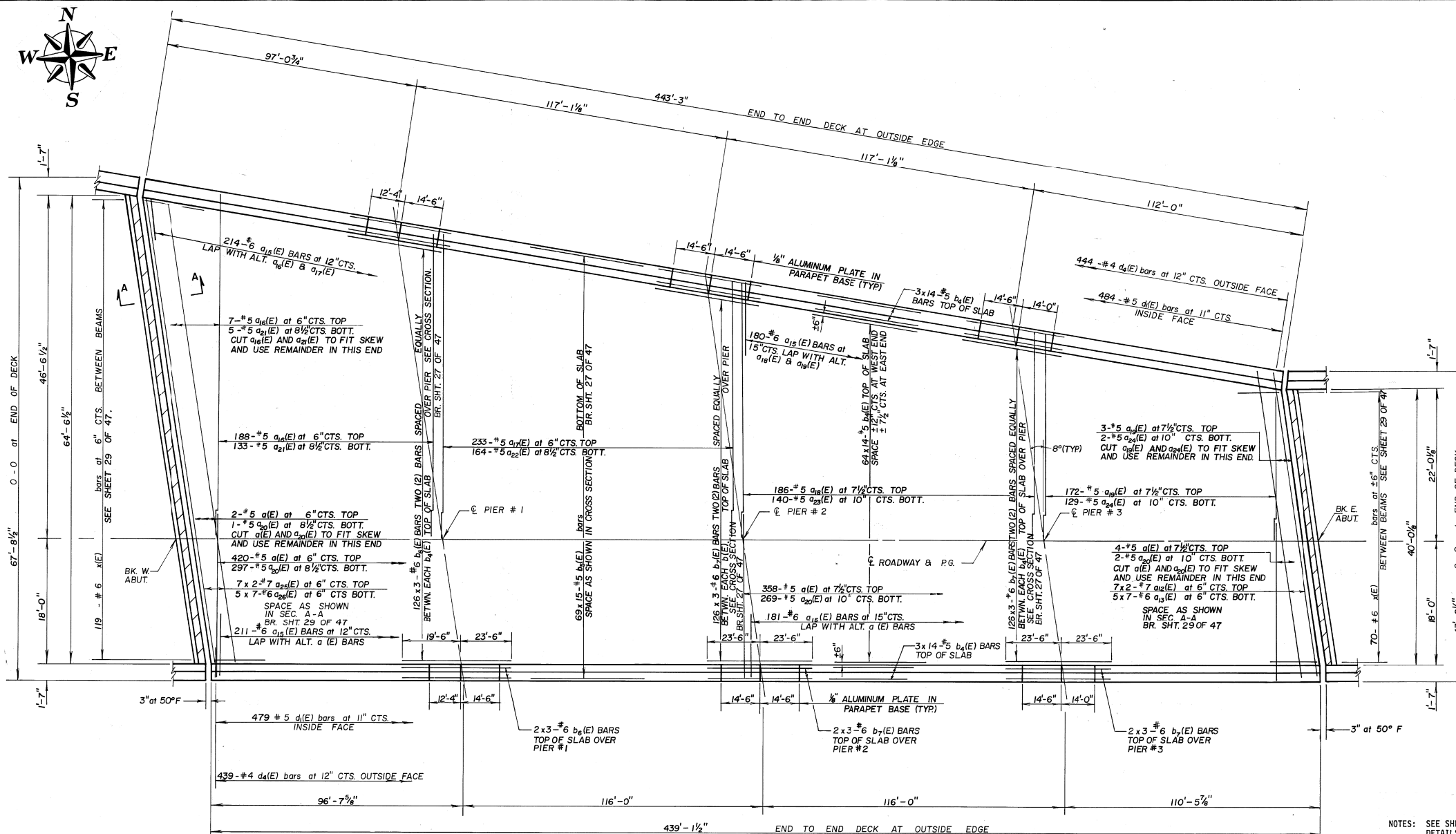
SCALE: SHEET 27 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	276
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

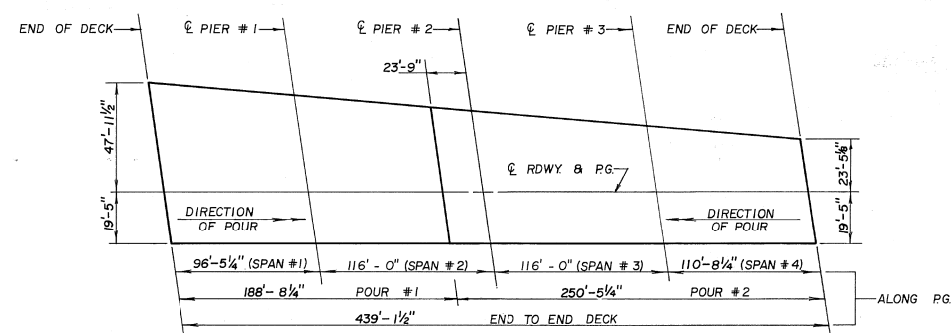
F.A.I. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	152

ILLINOIS PROJECT

BR. SHEET 26 OF 47
* (50-2)HBR-1, HB-2, BR



PLAN



POURING SEQUENCE DETAIL

NOTES: SEE SHEET #27 & #28 OF 47 FOR SUPERSTRUCTURE DETAILS AND BILL OF MATERIAL.
SEE SHEET #29 OF 47 FOR SECTIONS AT ABUTMENTS AND PIERS.
SEE SHEET #1 OF 47 FOR DRAINAGE SCRUPPER SPACING.
SEE SHEETS 28, 42, & 43 OF 47 FOR DRAINAGE SCRUPPER DETAILS.
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
BARS INDICATED THUS 20 x 3 - #5 ETC. INDICATES 20 LINES OF BARS WITH 3 LENGTHS PER LINE.
CUT LONGITUDINAL REINFORCEMENT BARS TO CLEAR DRAINAGE SCRUPPERS.

BAR LAPS

#5 BAR = 2'-2"
#6 BAR = 2'-7"
#7 BAR = 3'-5"

NOTES: WHEN THE DECK POUR IS STOPPED FOR THE DAY AT THE TRANSVERSE BONDED CONSTRUCTION JOINT IN THE DECK POURING SEQUENCE AS SHOWN, THE NEXT POUR SHALL NOT BE MADE UNTIL BOTH OF THE FOLLOWING REQUIREMENTS ARE MET:

1. AT LEAST 72 HOURS SHALL HAVE ELAPSED FROM THE END OF THE PREVIOUS POUR.
2. THE CONCRETE STRENGTH SHALL HAVE ATTAINED A MINIMUM MODULUS OF RUPTURE OF 650 P.S.I. OR A MINIMUM COMPRESSIVE STRENGTH OF 3500 P.S.I.

THE CONTRACTOR, AS AN ALTERNATIVE TO THE POURING SEQUENCE MAY POUR THE DECK SIMULTANEOUSLY FROM EACH END OF THE BRIDGE.

SUPERSTRUCTURE
FAI ROUTE 80 SEC(50-2)BR
LA SALLE COUNTY
STRUCTURE NO. 050-0221
STA. 672+09.32

(WESTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE - 10/4/2019	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	277
				CONTRACT NO. 66H21
				ILLINOIS FED. AID PROJECT

F.A.I. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	153

BR. SHEET 27 OF 47
 (50-2)HBR-1, H3-2, BR

SUPERSTRUCTURE BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a (E)	784	#5	20'-6"	
a12 (E)	14	#7	23'-4"	
a13 (E)	35	#6	4'-2"	
a14 (E)	128	#5	2'-0"	
a15 (E)	786	#6	4'-0"	
a16 (E)	195	#5	49'-2"	
a17 (E)	233	#5	43'-8"	
a18 (E)	186	#5	37'-3"	
a19 (E)	175	#5	30'-8"	
a20 (E)	569	#5	18'-6"	
a21 (E)	138	#5	51'-2"	
a22 (E)	164	#5	45'-8"	
a23 (E)	140	#5	39'-3"	
a24 (E)	131	#5	32'-8"	
a25 (E)	14	#7	35'-9"	
a26 (E)	35	#6	7'-8"	
b4 (E)	980	#5	33'-8"	
b5 (E)	1035	#5	31'-6"	
b6 (E)	390	#6	16'-0"	
b7 (E)	780	#6	17'-4"	
d (E)	963	#5	3'-0"	L
d1 (E)	963	#5	2'-7"	
d2 (E)	883	#4	3'-0"	L
d4 (E)	883	#4	2'-10"	C
e17 (E)	12	#5	33'-11"	
e18 (E)	60	#4	16'-8"	
e19 (E)	12	#4	12'-1"	
e20 (E)	120	#4	14'-3"	
e21 (E)	12	#4	13'-9"	
e22 (E)	72	#4	14'-5"	
e23 (E)	72	#4	15'-11"	
e24 (E)	12	#8	31'-3"	
e25 (E)	4	#8	12'-1"	
e26 (E)	16	#8	14'-3"	
e27 (E)	24	#8	32'-3"	
e28 (E)	4	#8	13'-9"	
e29 (E)	12	#8	35'-6"	
e30 (E)	12	#5	29'-8"	
e31 (E)	4	#5	12'-1"	
e32 (E)	16	#5	14'-3"	
e33 (E)	24	#5	30'-10"	
e34 (E)	4	#5	13'-9"	
m2 (E)	18	#8	6'-2"	
m6 (E)	14	#6	4'-10"	
m7 (E)	6	#8	4'-2"	
m8 (E)	56	#4	7'-4"	
m9 (E)	56	#4	5'-6"	
m10 (E)	14	#6	5'-9"	
m11 (E)	14	#6	3'-10"	
m12 (E)	56	#4	6'-4"	
s7 (E)	70	#4	15'-2"	
s8 (E)	35	#4	15'-9"	
x (E)	189	#6	7'-5"	

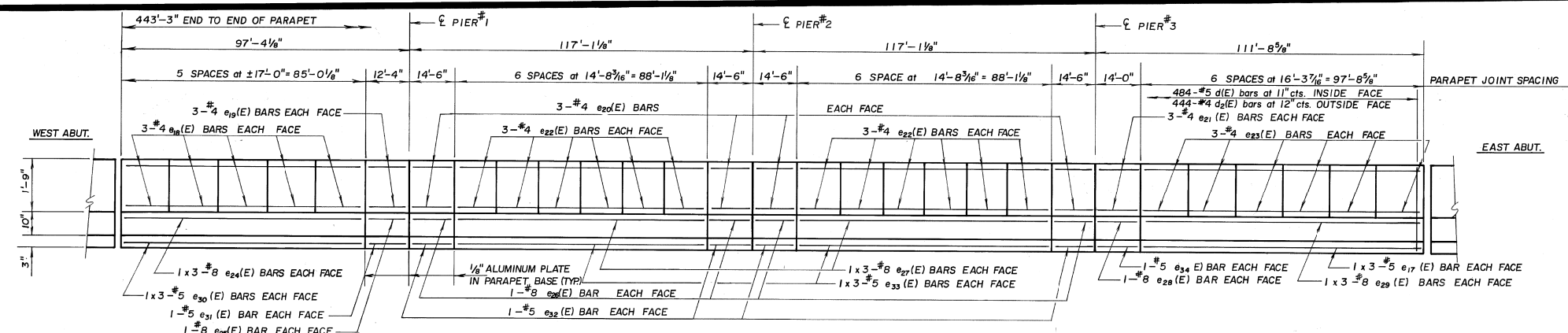
CONCRETE SUPERSTRUCTURES CU. YD. 900.4
 REINFORCEMENT BARS (EPOXY COATED) LBS. 216040

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
 BARS INDICATED THUS 20x3-#5 ETC. INDICATES 20 LINES OF BARS WITH 3 LENGTHS PER LINE.

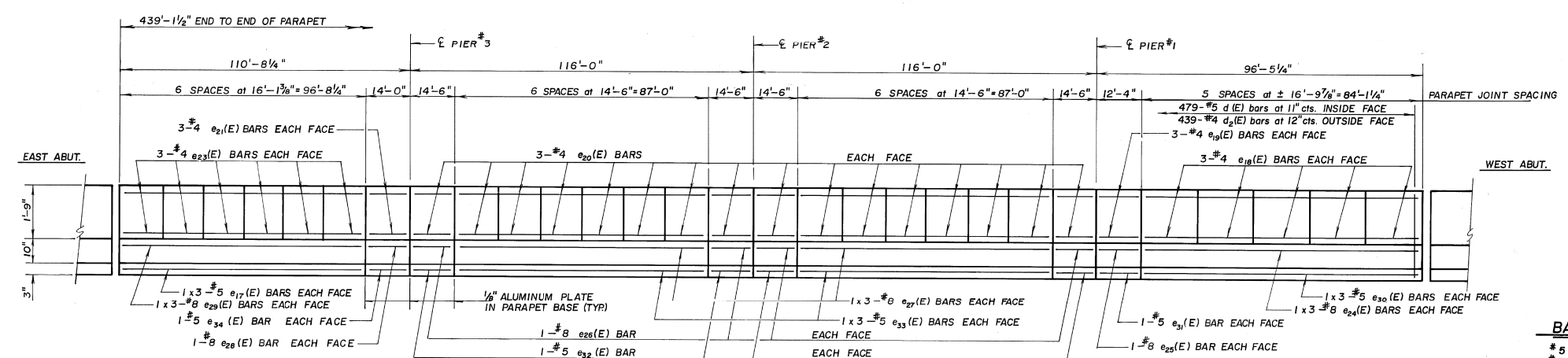
SUPERSTRUCTURE DETAILS
 FAI ROUTE 80 SEC (50-2) BR
 LA SALLE COUNTY
 STRUCTURE NO. 050-0221
 STA. 672+09.32

(WESTBOUND STRUCTURE)

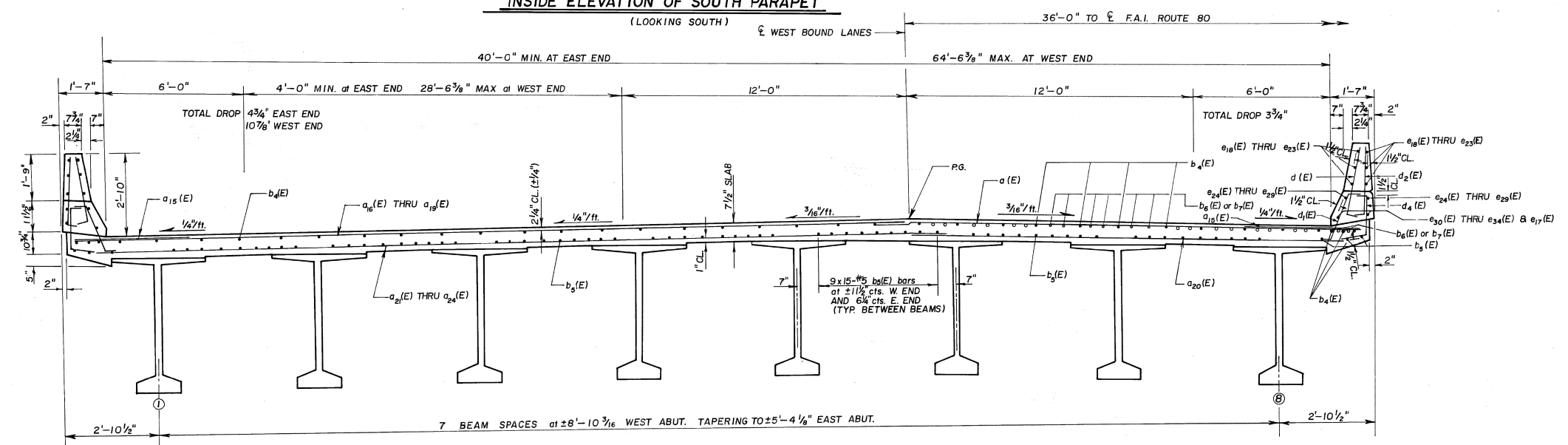
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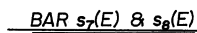
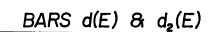
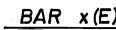
INSIDE ELEVATION OF NORTH PARAPET
 (LOOKING NORTH)



INSIDE ELEVATION OF SOUTH PARAPET
 (LOOKING SOUTH)

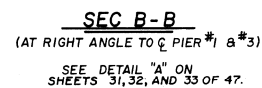
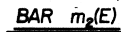
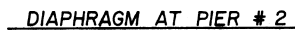
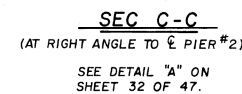
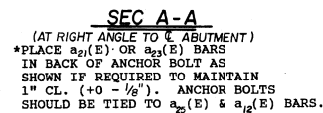


BR. SHEET 28 OF 47
* (50-2)HBR-1, HB-2, BR



(WESTBOUND STRUCTURE)

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** BARS INCLUDED WITH BILL OF MATERIAL FOR PIER #2. SEE SHEET 38 OF 47.

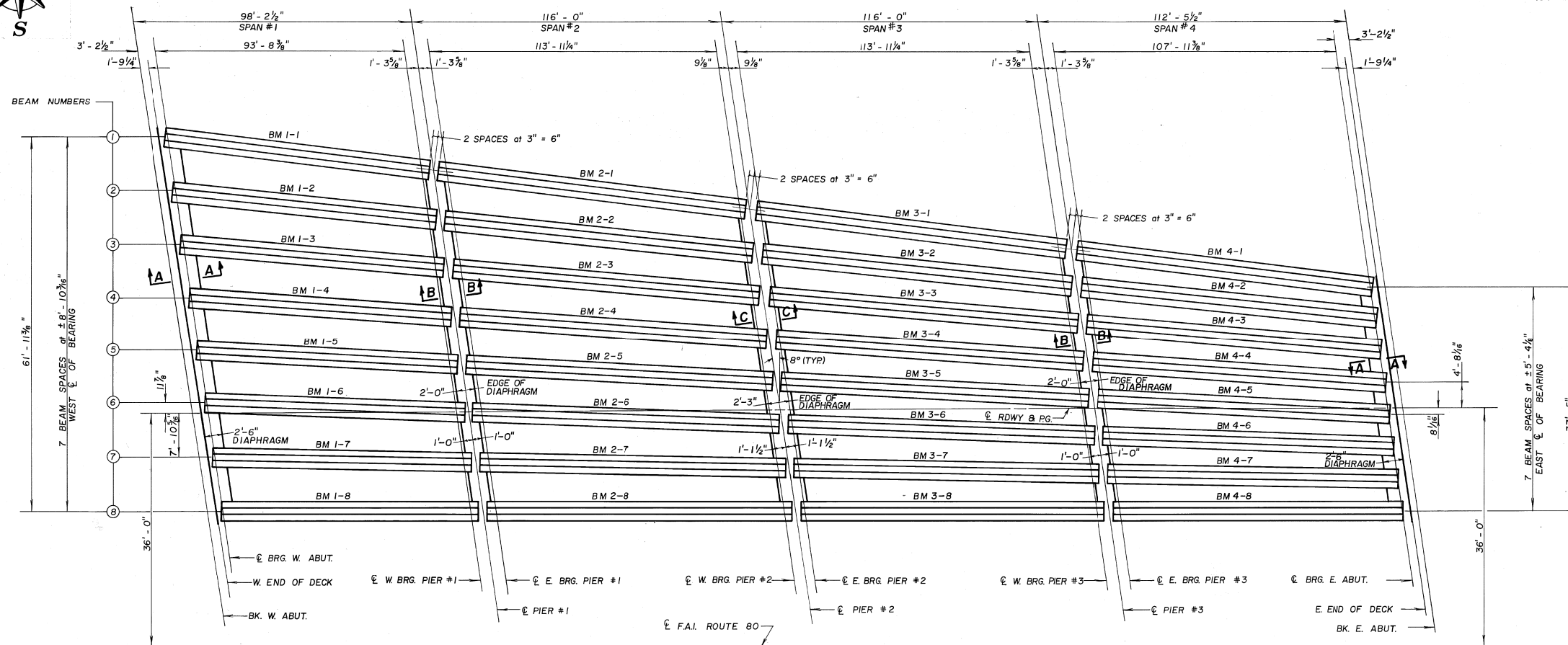
(WESTBOUND STRUCTURE)

FOR
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ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	156

ILLINOIS PROJECT
BR. SHEET 30 OF 47
• (50-2)HBR-1, HB-2, BR



FRAMING PLAN

NOTE: BM 1-5 DENOTES SPAN #1 - BEAM #5.
SEE SHEETS 31, 32, & 33 OF 47 FOR BEAM LENGTHS.
FOR SECTIONS A-A, B-B, AND C-C SEE SHEET 29 OF 47.

FRAMING PLAN
FAI ROUTE 80 SEC (50-2) BR
LA SALLE COUNTY
STRUCTURE NO. 050-0221
STA. 672+09.32

(WESTBOUND STRUCTURE)

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INFORMATION
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USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 32 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	281
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

USER NAME = mwilson	DESIGNED -
	DRAWN -
PLOT SCALE = 2.0000 ' / in.	CHECKED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019

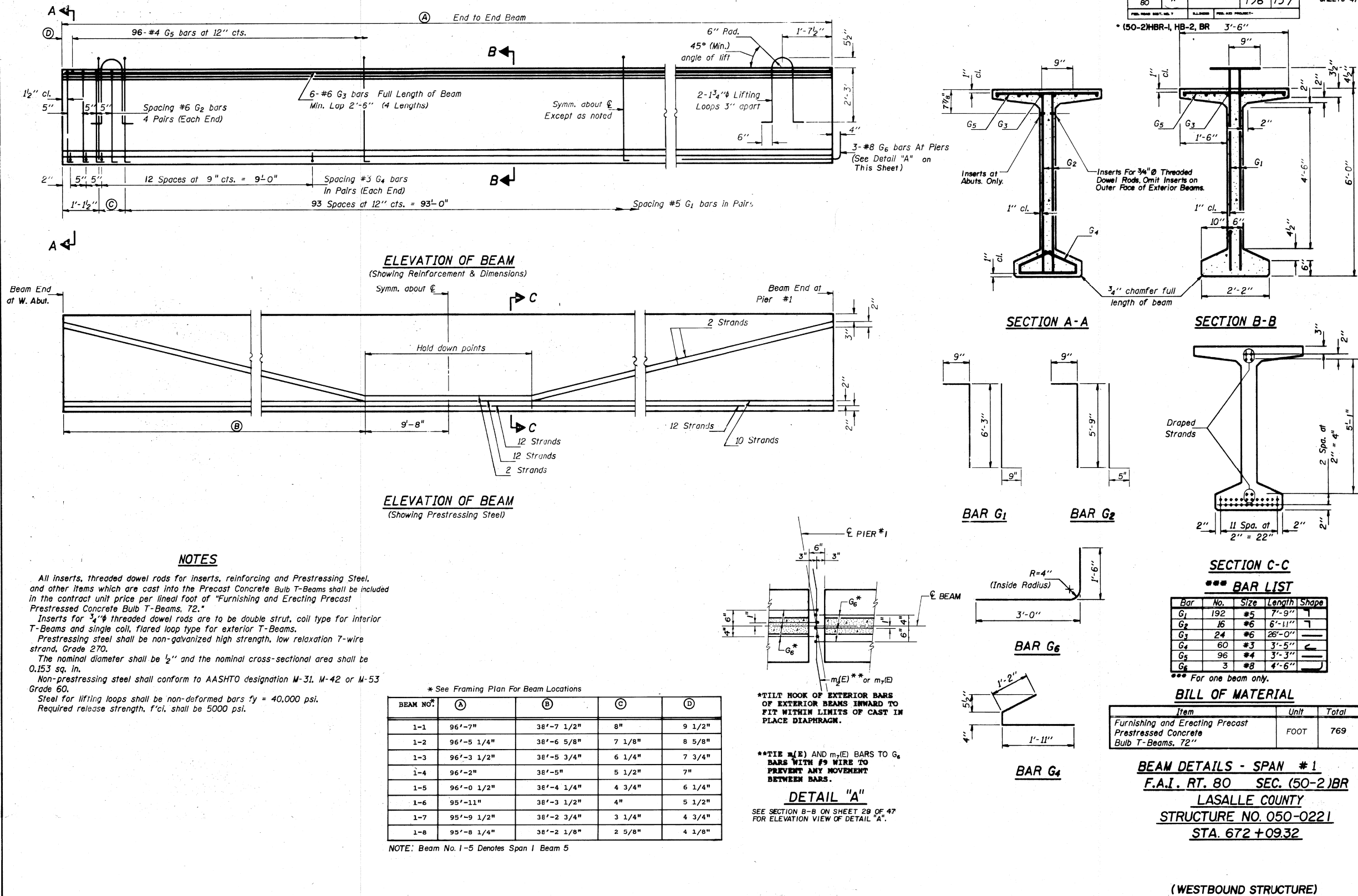
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE:	SHEET 33 OF 42 SHEETS	STA.	TO STA.
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	282
		CONTRACT NO. 66H21		
		ILLINOIS	FED. AID PROJECT	

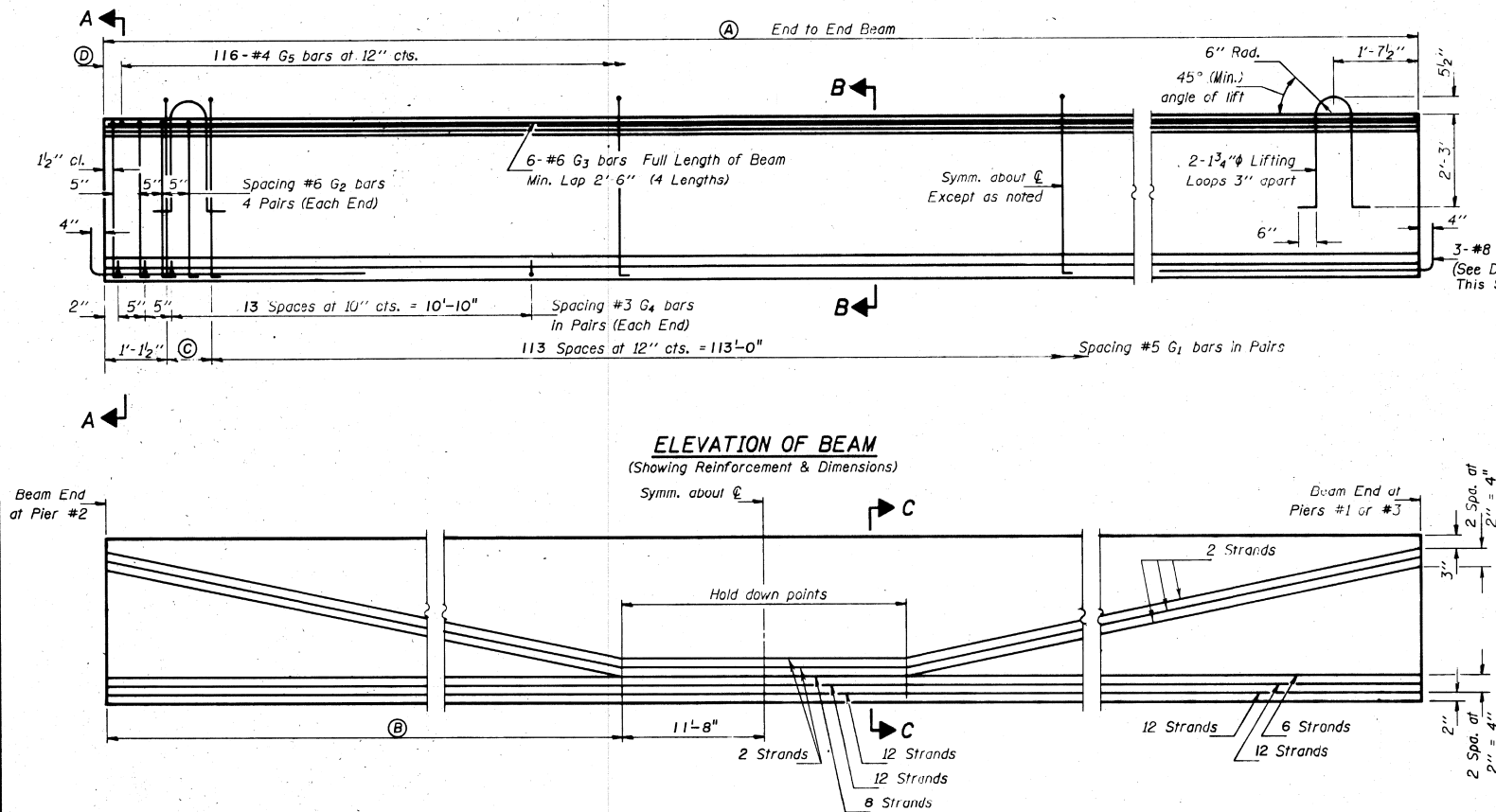
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USER NAME = mwilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -



NOTES

All inserts, threaded dowel rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete Bulb T-Beams shall be included in the contract unit price per lined foot of "Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 72."

Inserts for 3/4" threaded dowel rods are to be double strut, coil type for interior T-Beams and single coil, flared loop type for exterior T-Beams.

Prestressing steel shall be non-galvanized high strength, low relaxation 7-wire strand, Grade 270.

The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to AASHTO designation M-31, M-42 or M-53 Grade 60.

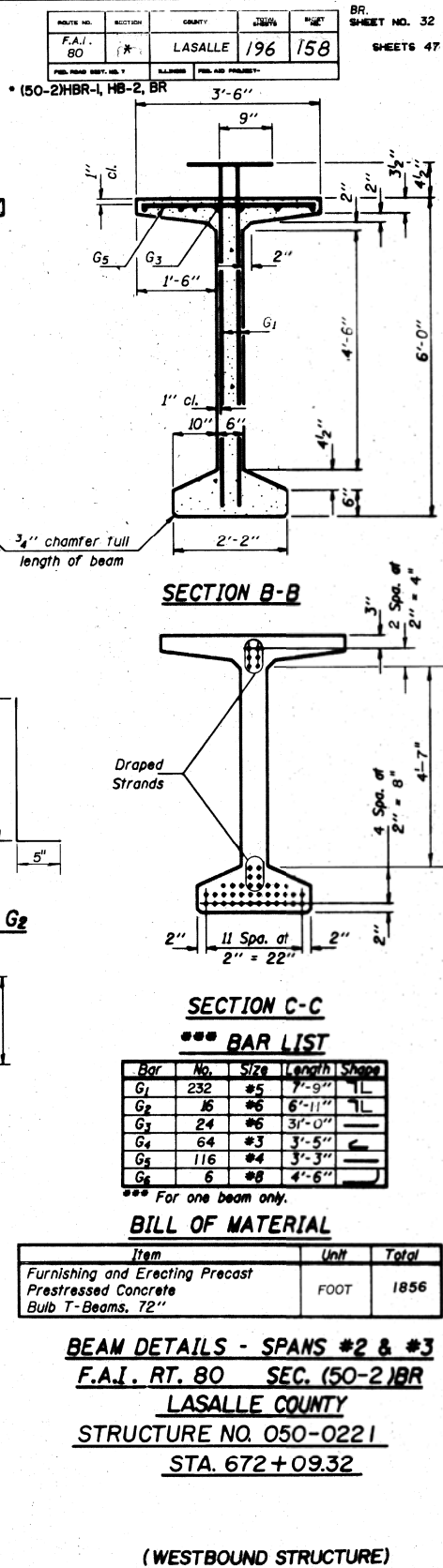
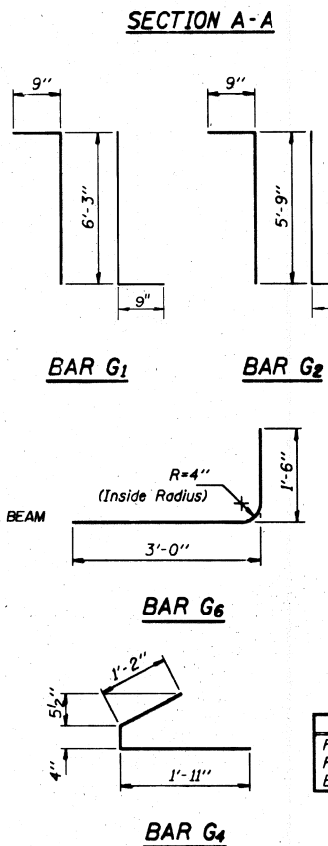
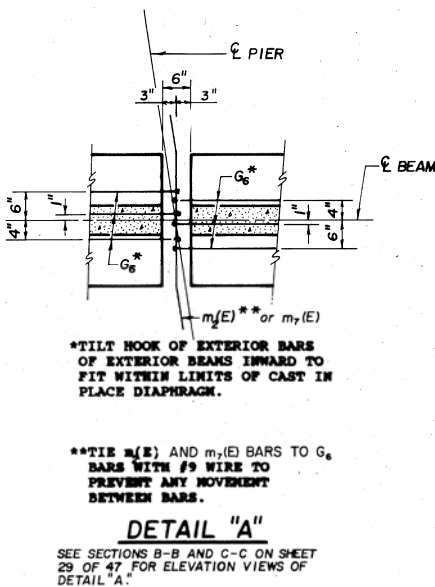
Steel for lifting loops shall be non-deformed bars fy = 40,000 psi.

Required release strength, f'ci, shall be 5000 psi.

* See Framing Plan For Beam Locations

BEAM NO.*	A	B	C	D
2-1	116'-7 1/4"	46'-7 5/8"	8 1/8"	9 5/8"
2-2	116'-5"	46'-6 1/2"	7"	8 1/2"
2-3	116'-3"	46'-5 1/2"	6"	7 1/2"
2-4	116'-1"	46'-4 1/2"	5"	6 1/2"
2-5	115'-11 1/4"	46'-3 5/8"	4 1/8"	5 5/8"
2-6	115'-9 1/2"	46'-2 3/4"	3 1/4"	4 3/4"
2-7	115'-7 3/4"	46'-1 7/8"	2 3/8"	3 7/8"
2-8	115'-6"	46'-1"	1 1/2"	3"
3-1	116'-7 1/4"	46'-7 5/8"	8 1/8"	9 5/8"
3-2	116'-5"	46'-6 1/2"	7"	8 1/2"
3-3	116'-3"	46'-5 1/2"	6"	7 1/2"
3-4	116'-1"	46'-4 1/2"	5"	6 1/2"
3-5	115'-11 1/4"	46'-3 5/8"	4 1/8"	5 5/8"
3-6	115'-9 1/2"	46'-2 3/4"	3 1/4"	4 3/4"
3-7	115'-7 3/4"	46'-1 7/8"	2 3/8"	3 7/8"
3-8	115'-6"	46'-1"	1 1/2"	3"

NOTE: Beam No. 2-5 Denotes Span 2 Beam 5



FOR
INFORMATION
ONLY

USER NAME = mwilson	DESIGNED -
	DRAWN -
PLOT SCALE = 2.0000 ' / in.	CHECKED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019

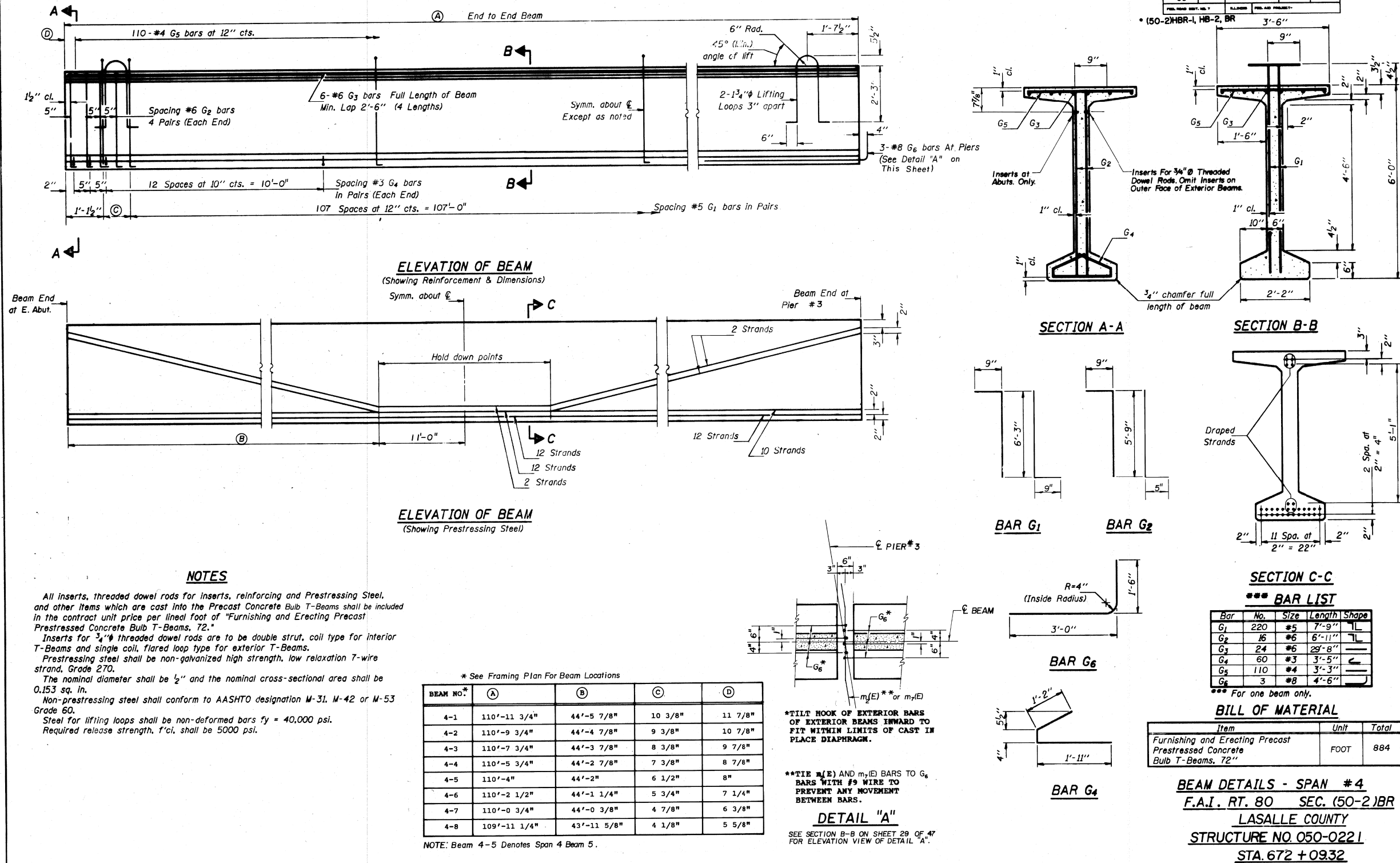
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE:	SHEET 35 OF 42 SHEETS	STA.	TO STA.
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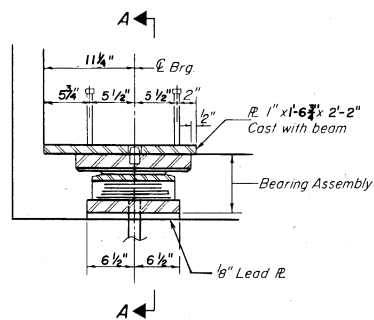
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	284
		CONTRACT NO. 66H21		
ILLINOIS		FED. AID PROJECT		

FOR
INFORMATION
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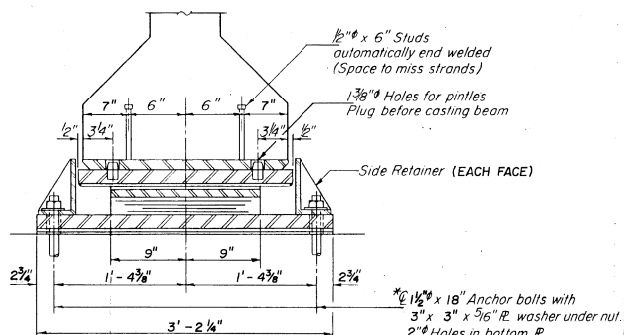


(WESTBOUND STRUCTURE)

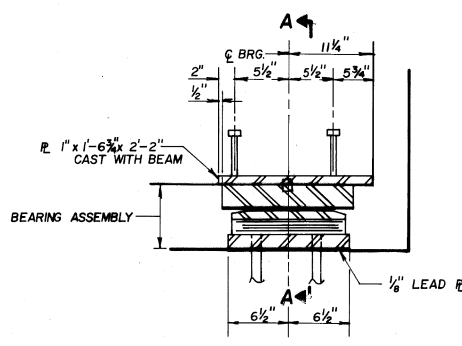
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION @ W. ABUT.
(LOOKING NORTH)



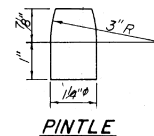
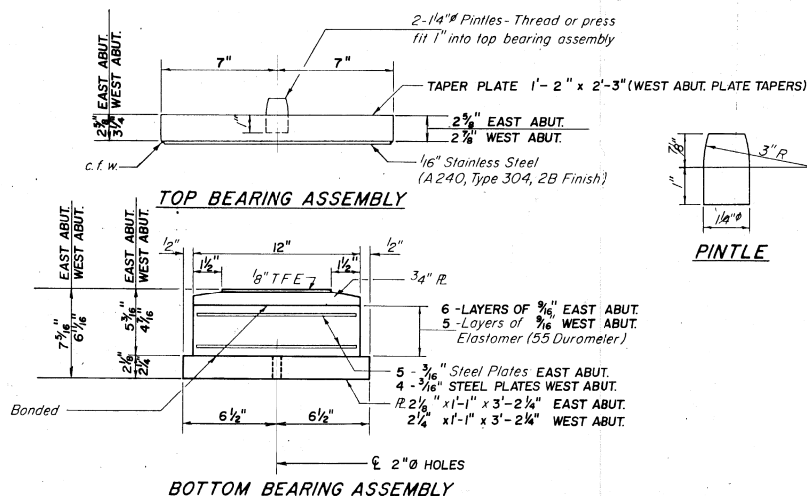
SECTION A-A



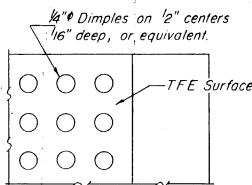
SECTION AT E. ABUT.
(LOOKING NORTH)

* NOTE: AFTER BEAMS HAVE BEEN ERECTED HOLES AT EXPANSION BEARINGS SHALL BE DRILLED AND ANCHOR BOLTS GROUTED IN PLACE. SEE SHEET 40 OF 47 FOR ANCHOR BOLT INSTALLATION.

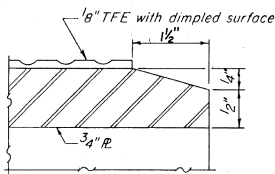
TYPE II TFE ELASTOMERIC EXP. BRG. AT ABUTMENTS



PINTLE



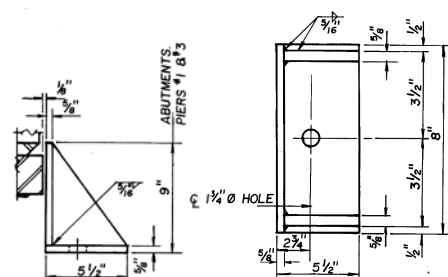
PLAN-TFE SURFACE



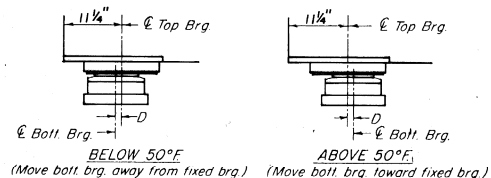
SECTION THRU TFE

Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



SIDE RETAINER
EQUIVALENT ROLLED ANGLE WITH STIFFENERS
WILL BE ALLOWED IN LIEU OF WELDED PLATES.



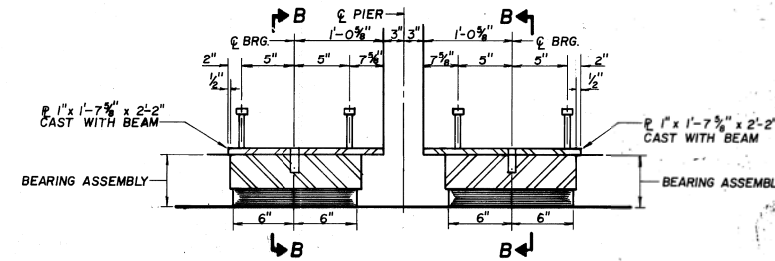
BELOW 50°F
(Move bolt brg. away from fixed brg.) (Move bolt brg. toward fixed brg.)

ABOVE 50°F

SETTING ANCHOR BOLTS AT EXP. BRG.
D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

ELASTOMERIC BEARING, TYPE I
TAPERED PLATE THICKNESS

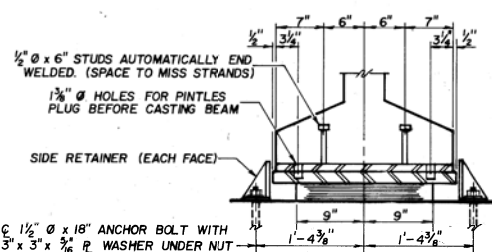
LOCATION	I ₁	I ₂
WEST BEARING PIER 1	4 1/4"	3 3/4"
EAST BEARING PIER 1	3 3/4"	3"
WEST BEARING PIER 3	3 3/4"	3 3/4"
EAST BEARING PIER 3	3 3/4"	3"



SECTION AT PIER
(LOOKING NORTH)

TYPE I ELASTOMERIC EXP. BRG. AT PIERS #1 & 3

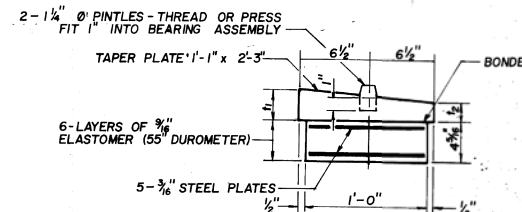
* NOTE: AFTER BEAMS HAVE BEEN ERECTED HOLES AT EXPANSION BEARINGS SHALL BE DRILLED AND ANCHOR BOLTS GROUTED IN PLACE. SEE SHEET 40 OF 47 FOR ANCHOR BOLT INSTALLATION.



SECTION B-B

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 34
FAI 80	*	LASALLE	196	160	SHEETS 47

* (50-2)HBR-1, HB-2, BR



BEARING ASSEMBLY
NOTE: SHIM PLATES SHALL NOT BE PLACED UNDER BEARING ASSEMBLY
(LOOKING NORTH)

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	32
Elastomeric Bearing Assembly, Type II	Each	16
** Furnishing and Erecting Structural Steel	Lbs.	3637

** INCLUDES SIDE RETAINERS AND ANCHORS BOLTS ONLY.

BEARING DETAILS
FAI ROUTE 80 SEC.(50-2) BR
LA SALLE COUNTY
STRUCTURE NO. 050-0221
STA. 672+09.32

(WESTBOUND STRUCTURE)

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INFORMATION
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

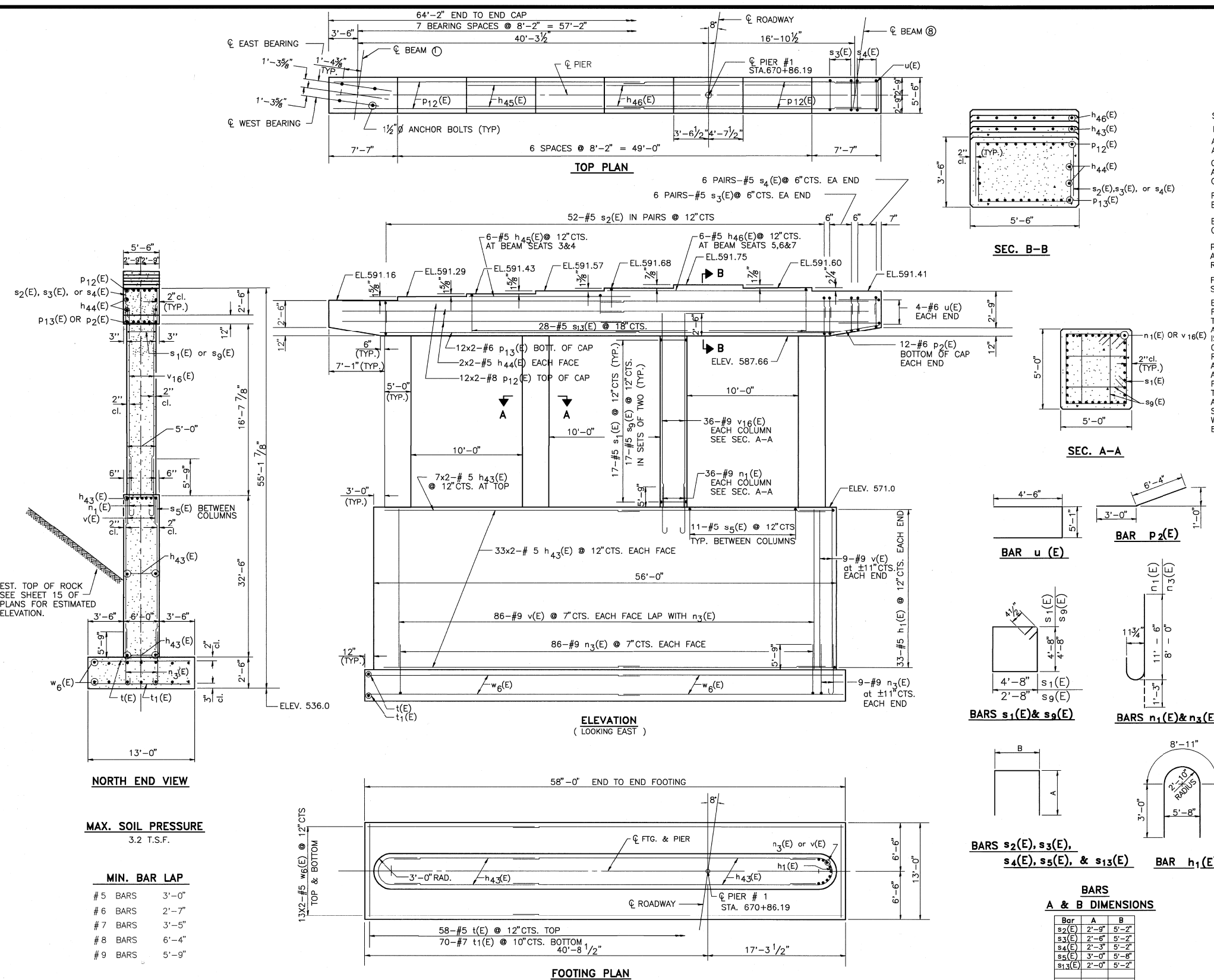
EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 36 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	285
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				



USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE = 10/4/2019	REVISED -



FAI ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	196	163
ILLINOIS PROJECT				

BR. SHEET 37 OF 47
* (50-2)HBR-1. HB-2. BR

GENERAL NOTES

SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
POUR STEPS MONOLITHICALLY WITH CAP.
ALL EDGES SHALL HAVE STANDARD $\frac{3}{4}$ " CHAMFERS EXCEPT
AS NOTED.

CONCRETE FOR THE PIER FOOTING SHALL BE POURED AGAINST ROCK. NO FORMING IS REQUIRED DURING CONSTRUCTION OF THE PIER FOOTING.

REINFORCEMENT BARS DESIGNATED (E) SHALL
BE EPOXY COATED.

BARS INDICATED THUS 13x2-#5 ETC. INDICATES 13 LINES OF BARS WITH 2 LENGTHS PER LINE.

PIER FOOTING IS TO BE SET ENTIRELY IN ROCK WITH A MINIMUM ADDITIONAL EMBEDMENT OF 12" IN REASONABLY SOUND ROCK, WHICHEVER IS DEEPER.

FOR ANCHOR BOLT INSTALLATION DETAILS,
SEE SHEET #40 OF 47.

ESTIMATED TOP OF ROCK ELEVATIONS WERE AVERAGED FROM SOIL BORINGS ON EITHER SIDE OF THE PIER. THE LIMITS AND SLOPE OF THE WEST FACE OF THE ACTUAL EXCAVATION FROM ORIGINAL PIER CONSTRUCTION IS NOT KNOWN. IF THE FINAL FOOTING ELEVATIONS ARE CHANGED DUE TO FIELD CONDITIONS THE CONCRETE, REINFORCEMENT, AND EXCAVATION QUANTITIES SHALL BE ADJUSTED AS REQUIRED BY THE ENGINEER. THESE ADJUSTED QUANTITIES REQUIRED BY THE ENGINEER AND FURNISHED BY THE CONTRACTOR WILL BE PAID FOR AT THE UNIT PRICE BID FOR THE WORK. THE ENGINEER IN CONJUNCTION WITH ARTICLE 102 OF THE BOARD SPECIFICATIONS SHALL DETERMINE THE ELEVATION AT WHICH THE IN PLACE MATERIAL QUALIFIES AS ROCK FIVATION.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	66	# 5	14'-1"	
h ₂ (E)	16	# 5	23'-6"	
h ₃ (E)	8	# 5	26'-6"	
h ₄ (E)	6	# 5	16'-4"	
h ₅ (E)	6	# 5	24'-6"	
n ₁ (E)	144	# 9	12'-9"	
n ₃ (E)	190	# 9	9'-3"	
p ₂ (E)	24	# 6	9'-4"	
p ₂ (E)	24	# 8	35'-1"	
p ₃ (E)	24	# 6	26'-9"	
s ₁ (E)	68	# 5	19'-5"	
s ₂ (E)	104	# 5	10'-8"	
s ₃ (E)	24	# 5	10'-2"	
s ₄ (E)	24	# 5	9'-8"	
s ₅ (E)	33	# 5	11'-8"	
s ₉ (E)	136	# 5	15'-5"	
s ₉ (E)	28	# 5	9'-2"	

$\tau(E)$	58	# 5	12'-8"	—
$t_1(E)$	70	# 7	12'-8"	—
$u(E)$	8	# 6	14'-1"	—
$v(E)$	190	# 9	32'-4"	—
$w_6(E)$	144	# 9	19'-4"	—
$w_6(E)$	52	# 5	30'-4"	—
CONCRETE STRUCTURES			CU. YD.	575.
REINFORCEMENT BARS			LBS.	5546
EPOXY COATED				
BRACED EXCAVATION			CU. YD.	625
ROCK EXCAVATION			CU. YD.	503
FOR STRUCTURES				

PIER # 1
F.A.I. ROUTE 80 SEC.(50-2)BR
LASALLE COUNTY
STR. NO.050-0221
STA. 672+09.32
(WESTBOUND STRUCTURE)

FOR
INFORMATION
ONLY

MODEL: Default
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DATE: 10/2/2019



USER NAME = mwilson	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2019	CHECKED -	REVISED -
	DATE = 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
STRUCTURE NO. 050-0220/0221

SCALE: SHEET 41 OF 42 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	290
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

F.A.I. ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	LASALLE	96	165
ILLINOIS PROJECT				

• (50-2)HBR-1, HB-2, BR BR. SHEET 39 OF 47

GENERAL NOTES

SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
POUR STEPS MONOLITHICALLY WITH CAP.
ALL EDGES SHALL HAVE STANDARD $\frac{3}{4}$ " CHAMFERS EXCEPT AS NOTED.
CONCRETE FOR THE PIER FOOTING SHALL BE POURED AGAINST ROCK. NO FORMING IS REQUIRED DURING CONSTRUCTION OF THE PIER FOOTING.
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
BARS INDICATED THUS 13x2-#5 ETC. INDICATES 13 LINES OF BARS WITH 2 LENGTHS PER LINE.

PIER FOOTING IS TO BE SET ENTIRELY IN ROCK WITH A MINIMUM ADDITIONAL EMBEDMENT OF 12" IN REASONABLY SOUND ROCK, WHICHEVER IS DEEPER. UNDERCUT FOOTING ELEVATION 6" AND IMMEDIATELY AFTER THE LAST LIFT OF EXCAVATION IS REMOVED POUR 6" OF SEAL COAT CONCRETE ON THE ROCK.

PRIOR TO REMOVING THE COFFERDAM, THE FOOTING SHALL BE BACKFILLED TO THE ORIGINAL BEDROCK SURFACE WITH LEAN CONCRETE. COST INCIDENTAL TO BACKFILLING.

FOR ANCHOR BOLT INSTALLATION DETAILS, SEE SHEET #40 OF 47.

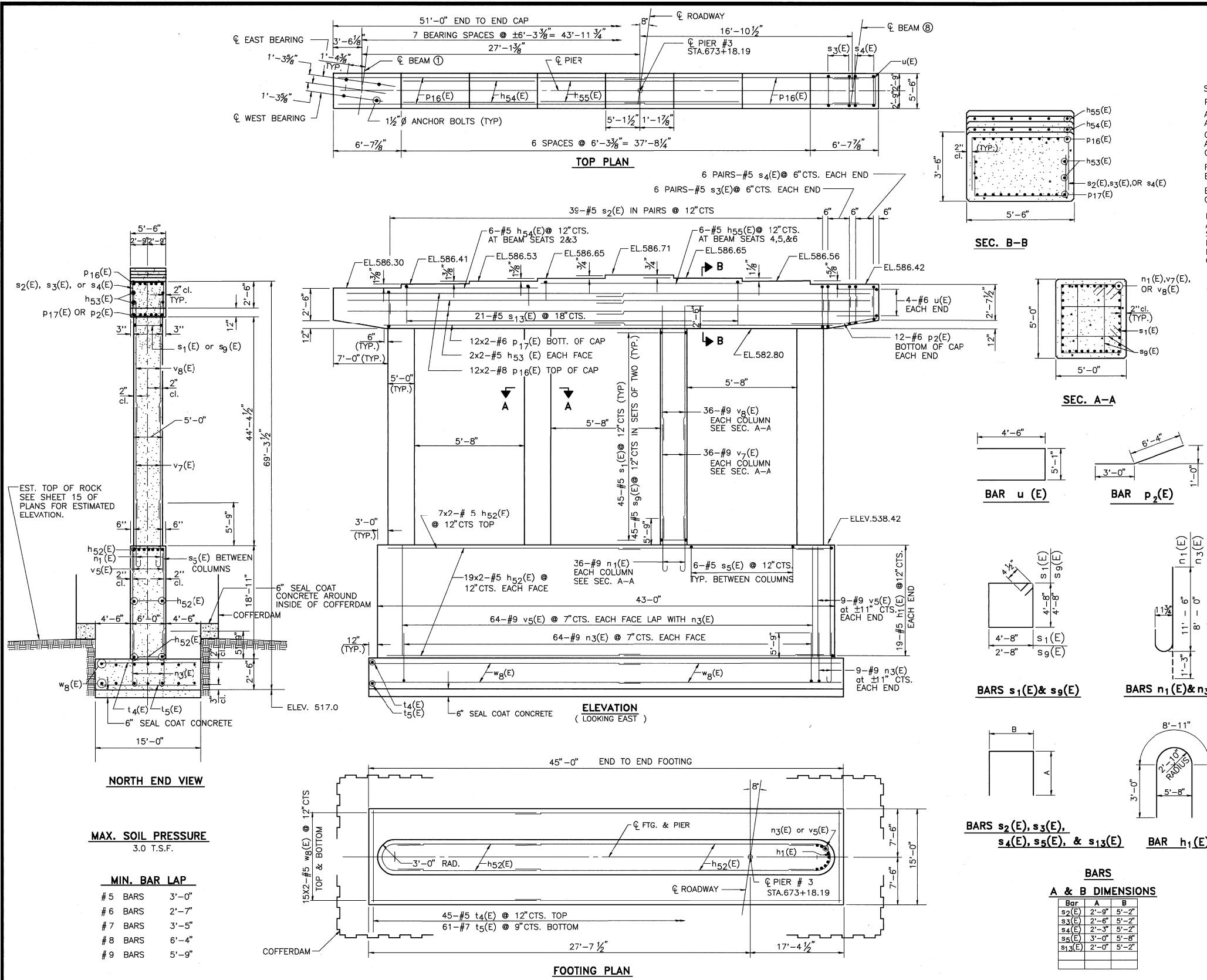
ESTIMATED TOP OF ROCK ELEVATIONS WERE AVERAGED FROM SOIL BORINGS ON EITHER SIDE OF THE PIER. THE LIMITS AND SLOPE OF THE WEST FACE OF THE ACTUAL EXCAVATION FROM ORIGINAL PIER CONSTRUCTION IS NOT KNOWN. IF THE FINAL FOOTING ELEVATIONS ARE CHANGED DUE TO FIELD CONDITIONS THE CONCRETE, REINFORCEMENT, AND EXCAVATION QUANTITIES SHALL BE ADJUSTED AS REQUIRED BY THE ENGINEER. THESE ADJUSTED QUANTITIES REQUIRED BY THE ENGINEER AND FURNISHED BY THE CONTRACTOR WILL BE PAID FOR AT THE UNIT PRICE BID FOR THE WORK. THE ENGINEER IN ACCORDANCE WITH ARTICLE 502.03 OF THE STANDARD SPECIFICATIONS SHALL DETERMINE THE ELEVATION AT WHICH THE IN PLACE MATERIAL QUALIFIES AS ROCK ELEVATION.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	38	# 5	14'-1"	U
h ₂ (E)	90	# 5	20'-0"	U
h ₃ (E)	8	# 5	26'-10"	U
h ₄ (E)	6	# 5	12'-6"	U
h ₅ (E)	6	# 5	18'-9"	U
n ₁ (E)	144	# 9	12'-9"	U
n ₃ (E)	146	# 9	9'-3"	U
p ₂ (E)	24	# 6	9'-4"	U
p ₁₆ (E)	24	# 8	28'-6"	U
p ₁₇ (E)	24	# 6	20'-4"	U
s ₁ (E)	180	# 5	19'-5"	U
s ₂ (E)	78	# 5	10'-8"	U
s ₃ (E)	24	# 5	10'-2"	U
s ₄ (E)	24	# 5	9'-8"	U
s ₅ (E)	18	# 5	11'-8"	U
s ₉ (E)	360	# 5	15'-5"	U
s ₁₃ (E)	21	# 5	9'-2"	U
t ₄ (E)	45	# 5	14'-8"	U
t ₅ (E)	61	# 7	14'-8"	U
u(E)	8	# 6	14'-1"	U
v ₅ (E)	146	# 9	18'-9"	U
v ₇ (E)	144	# 9	27'-0"	U
v ₈ (E)	144	# 9	25'-8"	U
w ₈ (E)	60	# 5	23'-10"	U
CONCRETE STRUCTURES				CU. YD. 439.6
REINFORCEMENT BARS EPOXY COATED				LBS. 67110
COFFERDAM EXCAVATION				CU. YD. 241
ROCK EXCAVATION FOR STRUCTURES				CU. YD. 163
COFFERDAMS				EACH 1
SEAL COAT CONCRETE				CU. YD. 17.2

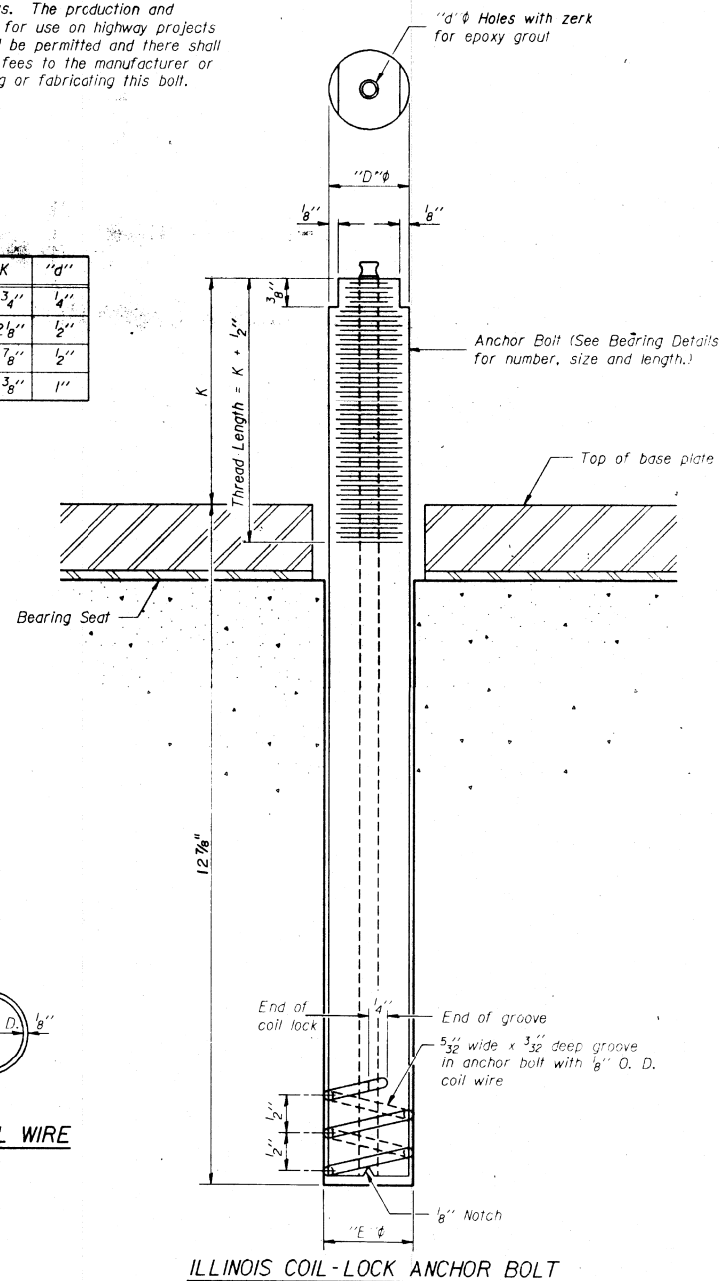
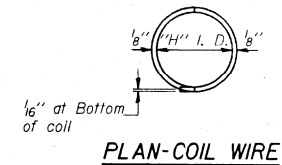
PIER # 3
F.A.I. ROUTE 80 SEC.(50-2)BR
LASALLE COUNTY
STR. NO. 050-0221
STA. 672+09.32
(WESTBOUND STRUCTURE)

FOR
INFORMATION
ONLY



The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 1/2"	5/8"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A519, Grade 1026 and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire. The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C881, Type I, Grade I and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes in accordance with the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer conforming to ASTM A307.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or in accordance with the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

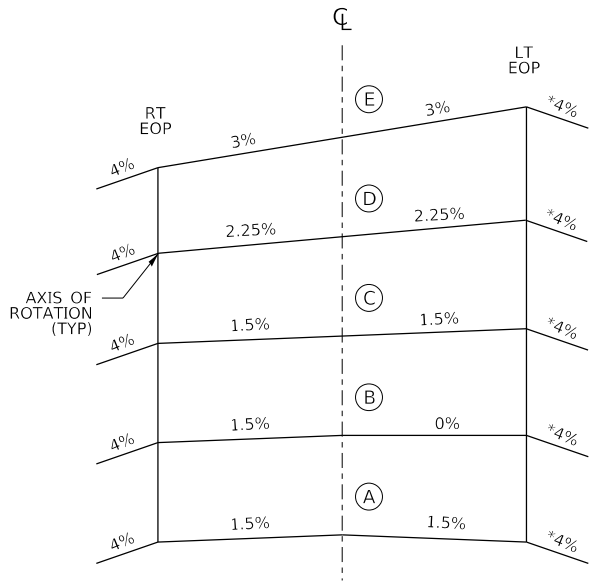
The anchor bolts, furnished and installed including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

ANCHOR BOLT DETAILS FOR BEARINGS

F.A.I. ROUTE 80 SEC. (50-2) BR
LA SALLE COUNTY
STRUCTURE NUMBER 050-0220 E.B.
050-0221 W.B.

FOR
INFORMATION
ONLY

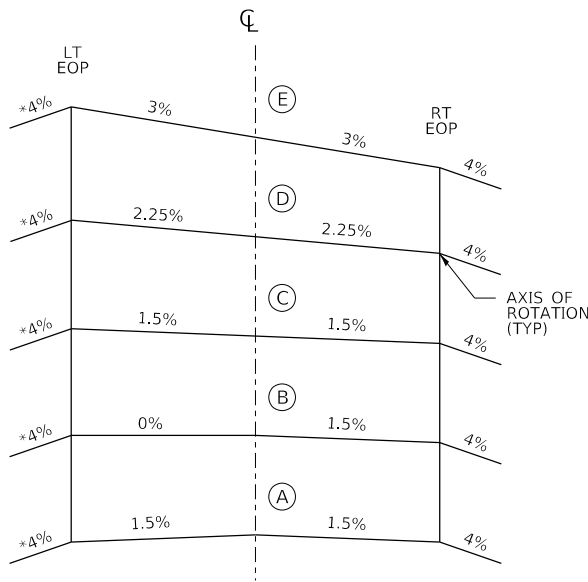
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FILE NAME: 3/20/2018\\181018 Various Structure IDOT D3 Farnsworth PTB 61-21\\Work Order 14 - 180 Roadway and other\\CADD\\CADD Sheets\\D366121.sht-Detail_SE Transitions.dgn



CROSS SECTIONS
SUPERELEVATION DEVELOPMENT

FOR CURVE AT 621+46.64

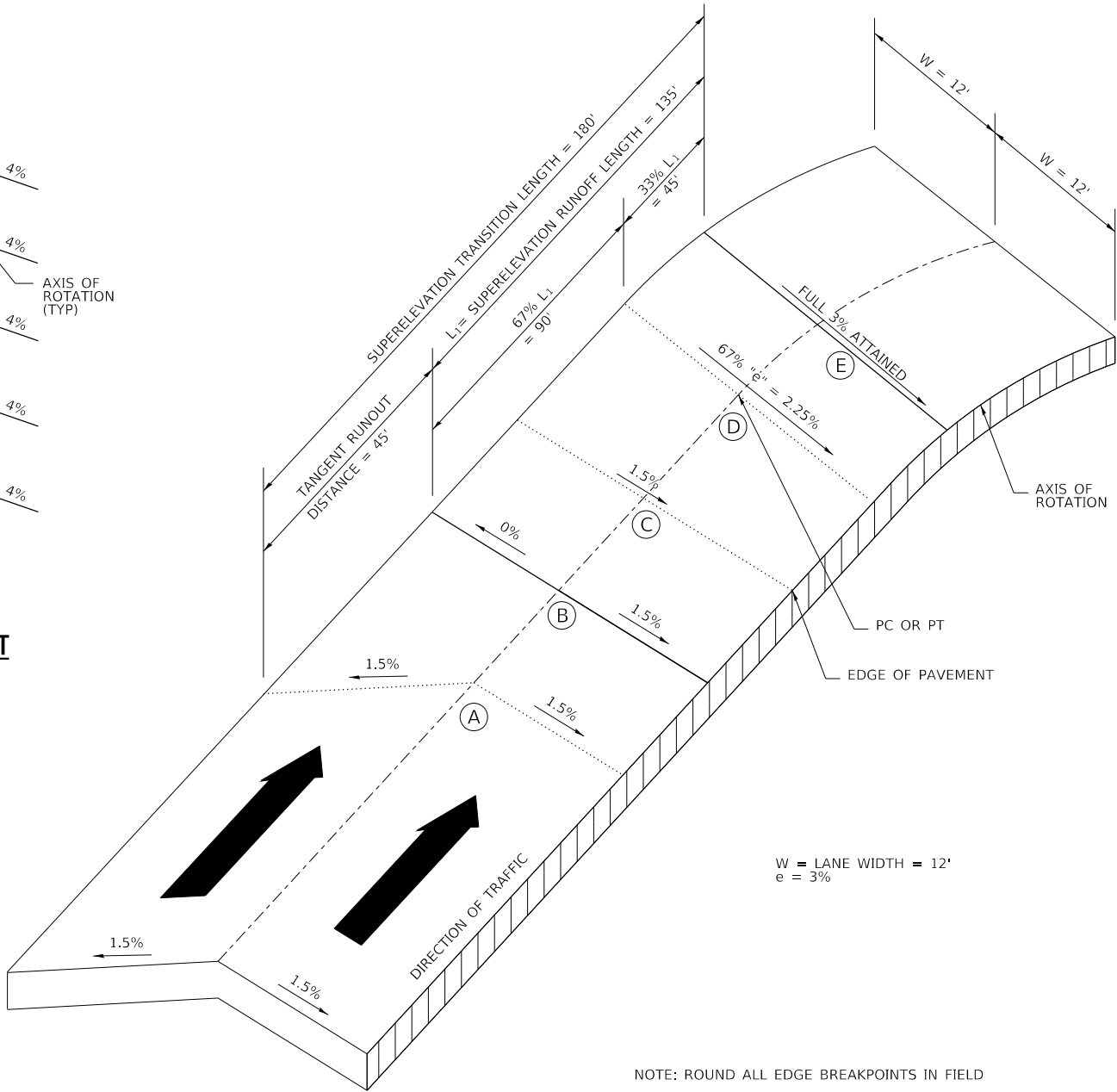
* MAXIMUM ROLLOVER SHALL BE 8%
FILL GUTTER PAN IF NECESSARY TO
MEET THIS MAXIMUM ROLLOVER REQUIREMENT.



CROSS SECTIONS
SUPERELEVATION DEVELOPMENT

FOR CURVE AT STA 627+26.19 BK=
STA 627+28.88 AH

* MAXIMUM ROLLOVER SHALL BE 8%
FILL GUTTER PAN IF NECESSARY TO
MEET THIS MAXIMUM ROLLOVER REQUIREMENT.



NOTE: ROUND ALL EDGE BREAKPOINTS IN FIELD

SUPERELEVATION TRANSITION

SUPERELEVATION TRANSITION POINTS					
LOCATION	A	B	C	D	E
EB DEPARTURE - CURVE 621+46.64	622+81.64	622+36.64	621+91.64	621+46.64	621+01.64
EB APPROACH - CURVE 627+26.19 BK= 627+28.88 AH	624+25.05	624+70.05	625+15.05	625+60.05	626+05.05
WB DEPARTURE - CURVE 627+26.19 BK= 627+28.88 AH	624+98.20	625+43.20	625+88.20	626+33.20	626+78.20

* TRANSITION POINTS FOR CURVE AT 627+26.19 ADJUSTED TO PROVIDE FULL
SUPERELEVATION OF THE STRUCTURES AND APPROACH PAVEMENT



QUIGG ENGINEERING INC

USER NAME = smaxwell	DESIGNED - TNS	REVISED -
	DRAWN - TNS	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

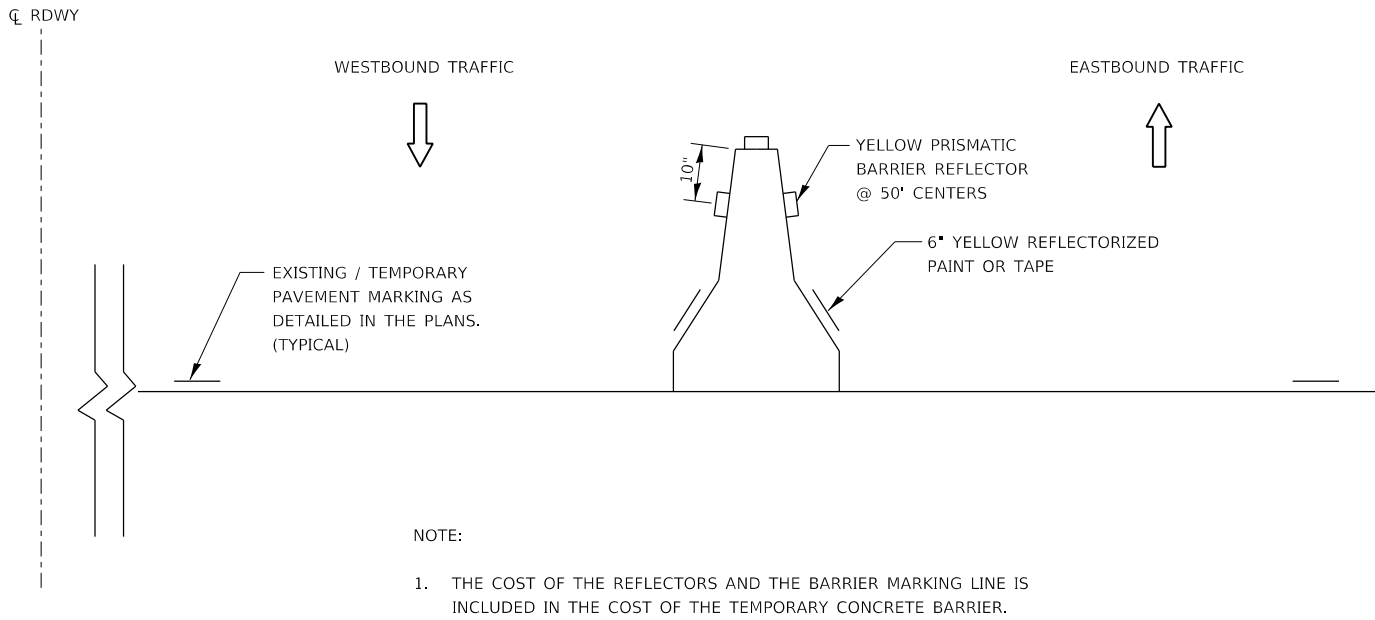
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION TRANSITION
DETAIL

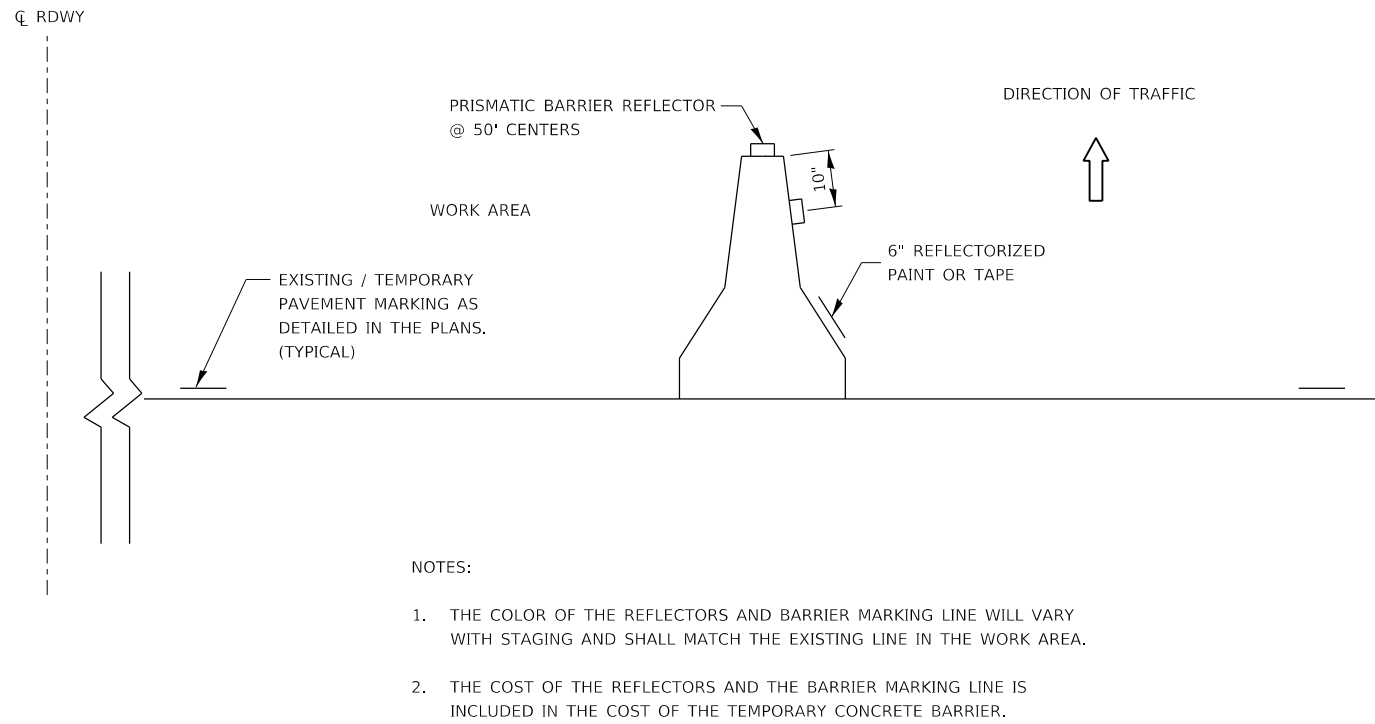
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	292
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				

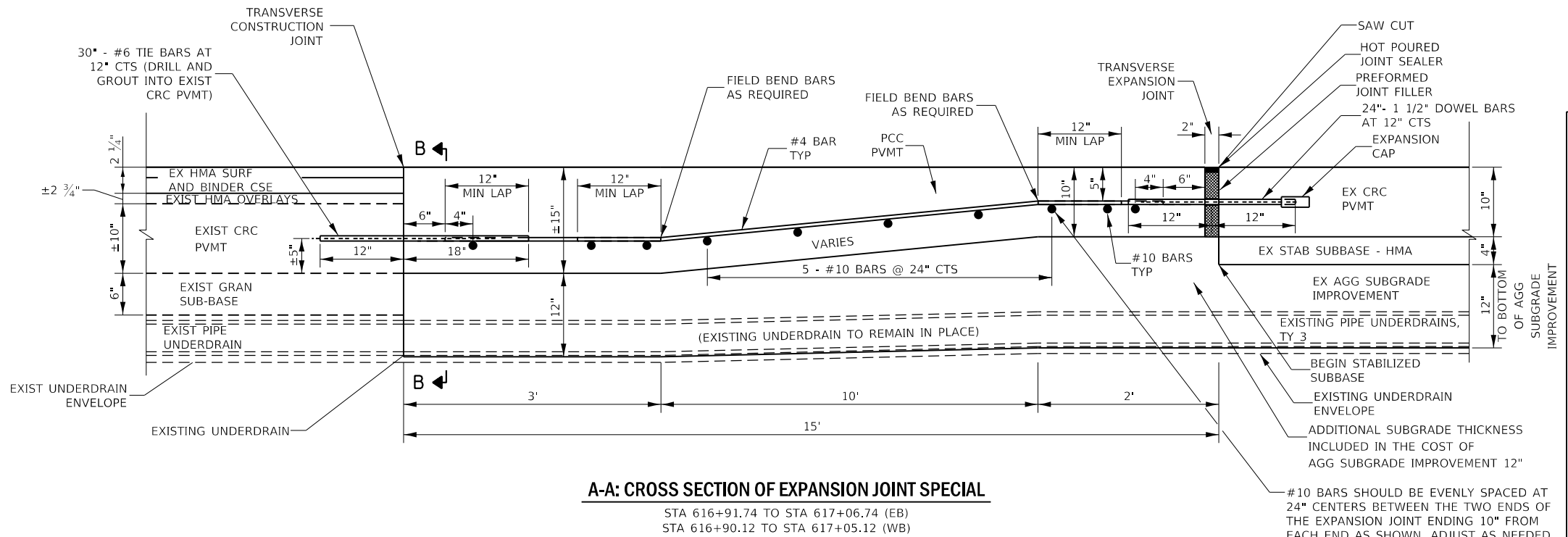
MODEL: dwt 3 details
FILE NAME: 3101010101018 Various Structure IDOT D3 Farnsworth PTB 16121Work Order 14 - 180 Roadway and otherCADD/CADD Sheets/D366121.dwt-detail/701-1.dgn



TRAFFIC CONTROL DETAIL FOR TEMPORARY CONCRETE BARRIER



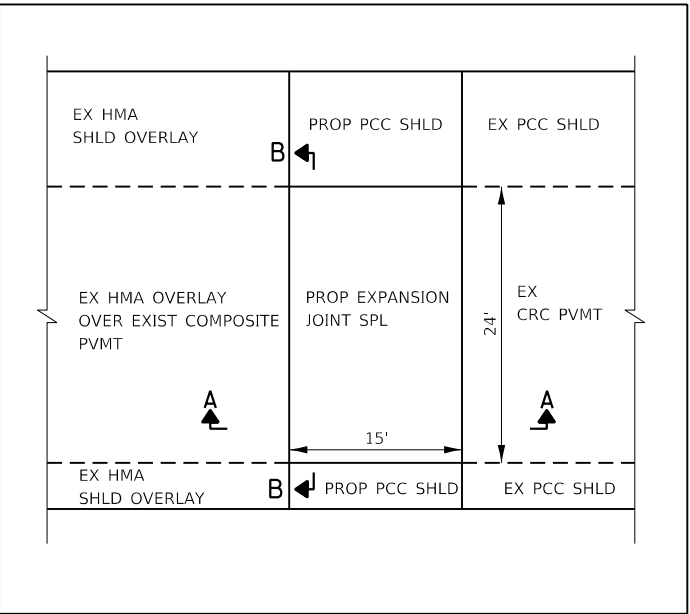
TRAFFIC CONTROL DETAIL FOR TEMPORARY CONCRETE BARRIER



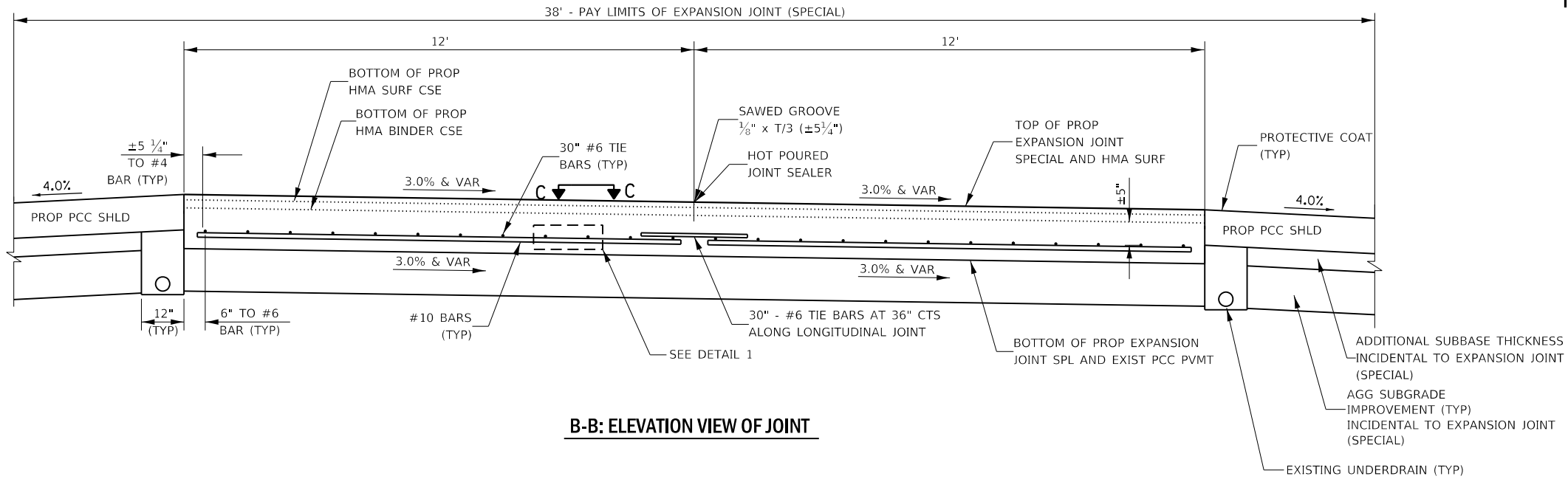
A-A: CROSS SECTION OF EXPANSION JOINT SPECIAL

STA 616+91.74 TO STA 617+06.74 (EB)
STA 616+90.12 TO STA 617+05.12 (WB)

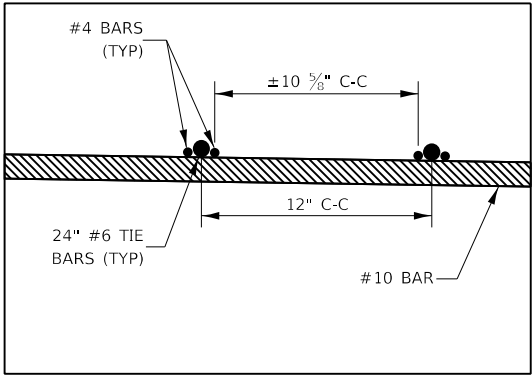
#10 BARS SHOULD BE EVENLY SPACED AT 24" CENTERS BETWEEN THE TWO ENDS OF THE EXPANSION JOINT ENDING 10" FROM EACH END AS SHOWN. ADJUST AS NEEDED AT THE END TO WITHIN 4" OF THE END. #4 BAR AND DOWEL BAR CAN OVERLAP, BUT ARE NOT TIED TOGETHER.



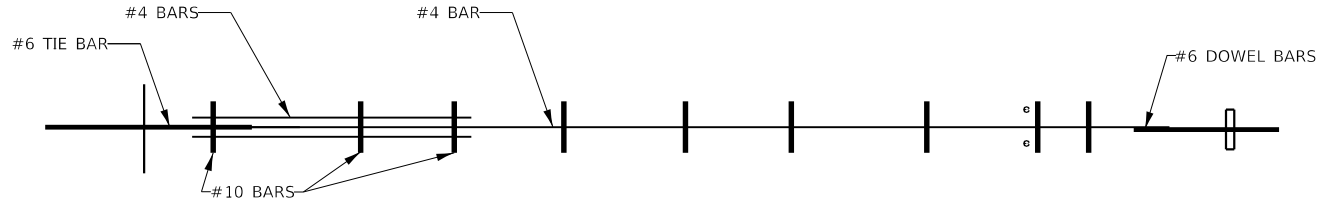
TYPICAL PLAN VIEW OF EXPANSION JOINT SPECIAL (NOT TO SCALE)



B-B: ELEVATION VIEW OF JOINT



DETAIL 1: BAR SPACING DETAILS



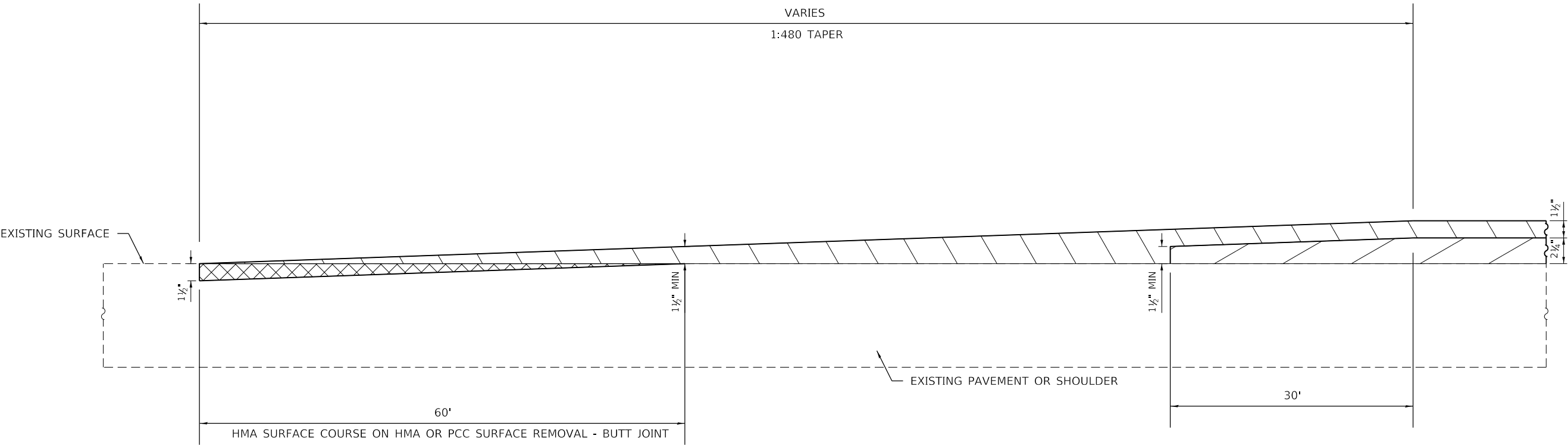
C-C: PLAN VIEW

NOTES:

- ALL BARS SHALL BE EPOXY COATED.
- COST OF SAW CUTTING, PAVEMENT REMOVAL, SHOULDER REMOVAL, PROPOSED AGG SUBGRADE IMPROVEMENT, SUBBASE, AND PCC CONCRETE SHOULDER SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF EXPANSION JOINT (SPECIAL).

MODEL Default
FILE Name: 3020181181018 Various Structure IDOT D3 Farnsworth RTB 161211Work Order 14 - L80 Roadway and otherCADD/CADD Sheets/D666121-jh-detail/Expansion Joint.dgn

MODEL: Default
FILE NAME: 3/2/2018\\BL018 Various Structure IDOT D3 Farnsworth PTB 16121\\Work Order 14 - L80 Roadway and other\\CADD\\CADD Sheets\\D366121-sh-detail-46609-1B.dgn



LEGEND

-  HMA OR PCC SURFACE REMOVAL - BUTT JOINT
-  POLYMERIZED SURFACE COURSE, MIX E, N90 *
-  POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N90 *

* PCC SURFACE REMOVAL - BUTT JOINT LOCATIONS WITH HMA SHOULDERS
- EB OUTSIDE SHOULDER STA 614+83.55 TO STA 615+43.76
- WB OUTSIDE SHOULDER STA 614+52.64 TO STA 615+21.63

 QUIGG ENGINEERING INC	USER NAME = smaxwell	DESIGNED - TNS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HMA / PCC SURFACE REMOVAL BUTT JOINT			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10.0000 ' / in.	DRAWN - TNS	REVISED -					80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	295
	PLOT DATE = 10/2/2019	CHECKED - MCV	REVISED -		SCALE:			CONTRACT NO. 66H21				
		DATE - 10/4/2019	REVISED -		SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE: N:\m1p_3\2020\18\18IL018_Various Structure IDOT D3 Farnsworth RTB 16121\Work Order 14 - 140 Roadway and other\CADD\CADD Sheets\D366121-sh-detaill-headwall Replacement.dgn



QUIGG ENGINEERING INC

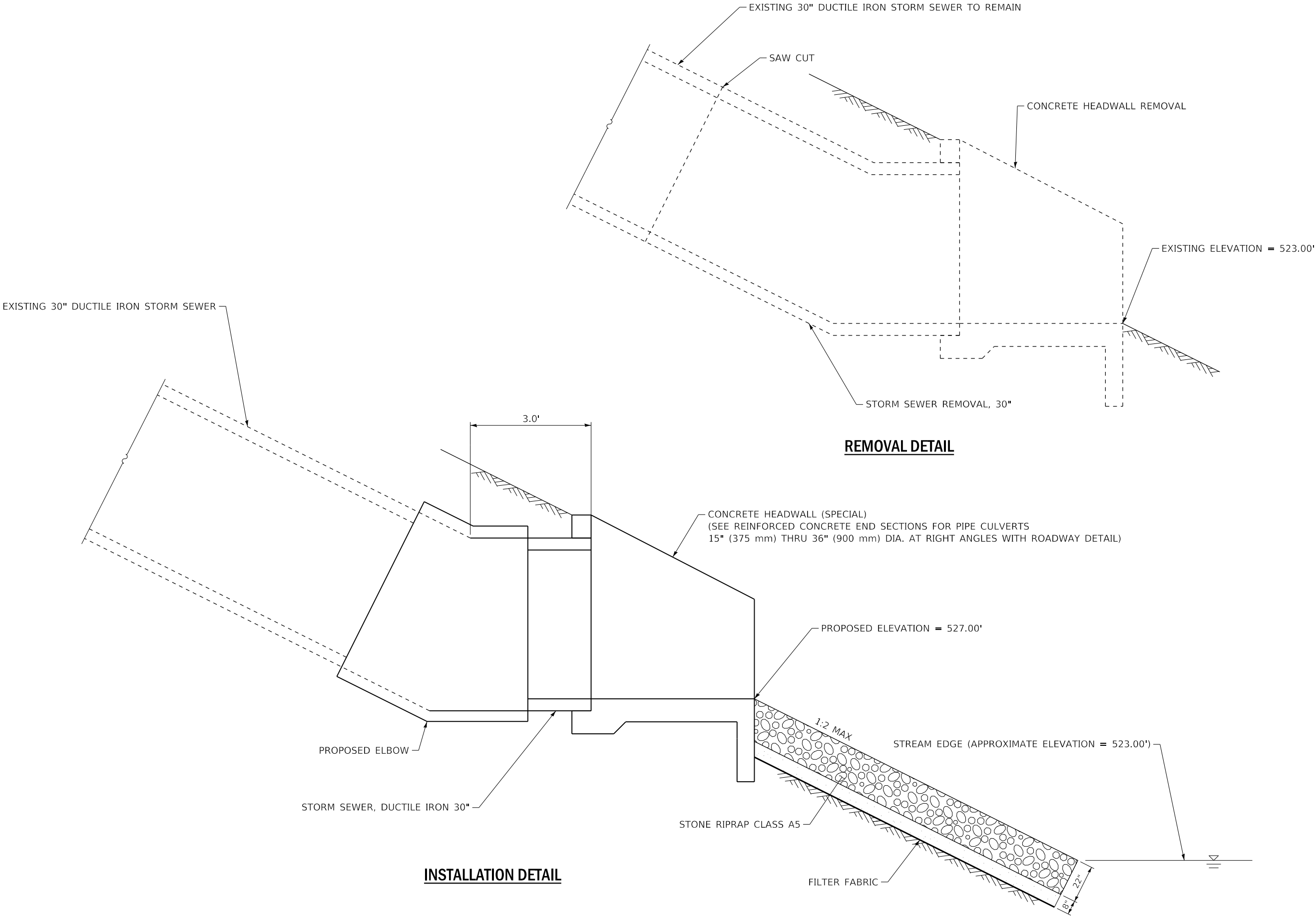
USER NAME = smaxwell	DESIGNED - JB	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HEADWALL REPLACEMENT DETAIL

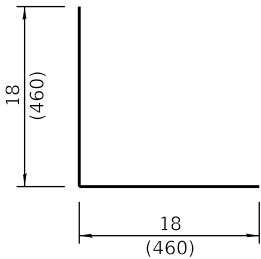
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	296
CONTRACT NO. 66H21				
		ILLINOIS	FED. AID PROJECT	

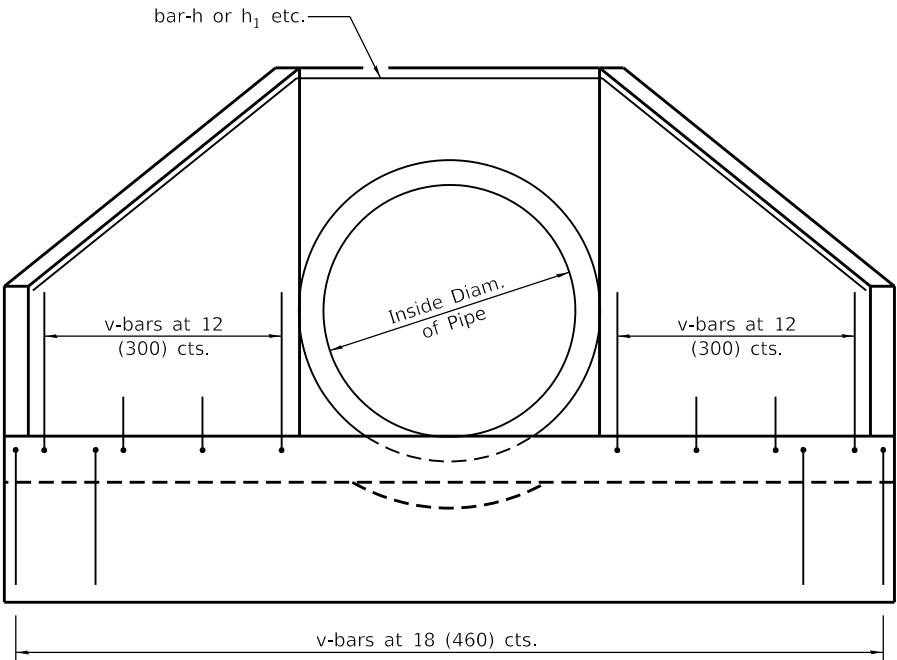


DIMENSIONS OF
BARS-h to h₉

Bar	a	b
h	22 (560)	29½ (750)
h ₁	22 (560)	38½ (980)
h ₂	25 (640)	29½ (750)
h ₃	25 (640)	38½ (980)
h ₄	33 (840)	39 (990)
h ₅	33 (840)	4'-1½" (1.26 m)
h ₆	39 (990)	3'-10½" (1.18 m)
h ₇	39 (990)	4'-10½" (1.50 m)
h ₈	3'-11" (1.19 m)	4'-8" (1.42 m)
h ₉	3'-11" (1.19 m)	5'-9½" (1.77 m)



BAR v

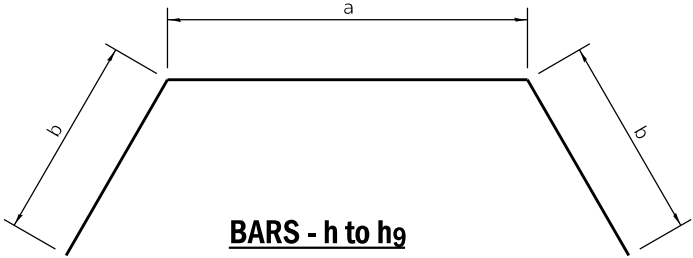


END VIEW

DIMENSIONS AND QUANTITIES

Design No.	Nominal Inside Dia. of Pipe	Slope of Wing Walls	Dimensions						Concrete 2 End Secs. cu. yds. (m³)	Reinforcement Bars - No. 4 (No. 13)			
			A	B	C	D	E	F		h-Bars		v-Bars No.	Total Wt. 2 End Secs. lbs. (kg)
										Bar	Length		
D15-1½ (D375-1½)	15 (375)	1:1½	19 (485)	10 (260)	23 (590)	24 (610)	5'-5½" (1.67 m)	29½ (750)	0.9 (0.7)	h	6'-9" (2.06 m)	16	40 (18.1)
D15-2 (D375-2)	15 (375)	1:2	26 (660)	10 (260)	23 (590)	24 (610)	6'-7½" (2.02 m)	3'-3¼" (1 m)	1.2 (0.9)	h ₁	8'-3" (2.52 m)	22	60 (27.2)
D18-1½ (D450-1½)	18 (450)	1:1½	19 (485)	13 (330)	26 (660)	27 (690)	5'-8½" (1.75 m)	29½ (750)	1.3 (1.0)	h ₂	7'-0" (2.14 m)	16	40 (18.1)
D18-2 (D450-2)	18 (450)	1:2	26 (660)	13 (330)	26 (660)	27 (690)	6'-10½" (2.11 m)	3'-3¼" (1 m)	1.3 (1.0)	h ₃	8'-6" (2.6 m)	22	60 (27.2)
D24-1½ (D600-1½)	24 (600)	1:1½	25 (640)	16 (410)	33 (840)	35 (890)	7'-4½" (2.26 m)	38 (970)	1.5 (1.1)	h ₄	9'-3" (2.82 m)	22	60 (27.2)
D24-2 (D600-2)	24 (600)	1:2	34 (865)	16 (410)	33 (840)	35 (890)	8'-10½" (2.72 m)	4'-2½" (1.29 m)	2.0 (1.5)	h ₅	11'-0" (3.24 m)	28	70 (31.8)
D30-1½ (D750-1½)	30 (750)	1:1½	30 (770)	19 (480)	39 (990)	3'-5" (1.05 m)	8'-8½" (2.68 m)	3'-9" (1.15 m)	2.0 (1.5)	h ₆	11'-0" (3.39 m)	28	70 (31.8)
D30-2 (D750-2)	30 (750)	1:2	3'-4" (1.01 m)	19 (480)	39 (990)	3'-5" (1.05 m)	10'-4½" (3.17 m)	4'-11" (1.5 m)	2.6 (2.0)	h ₇	13'-0" (3.99 m)	34	80 (36.3)
D36-1½ (D900-1½)	36 (900)	1:1½	36 (915)	22 (560)	3'-10" (1.17 m)	4'-1" (1.25 m)	10'-4½" (3.17 m)	4'-5½" (1.36 m)	2.6 (2.0)	h ₈	13'-3" (4.03 m)	30	80 (36.3)
D36-2 (D900-2)	36 (900)	1:2	4'-0" (1.22 m)	22 (560)	3'-10" (1.17 m)	4'-1" (1.25 m)	12'-4½" (3.78 m)	5'-10½" (1.79 m)	3.5 (2.7)	h ₉	15'-6" (4.73 m)	40	100 (45.4)

* If embankment slope above headwall is flatter than 1:2, provide wings for 1:2 slope.

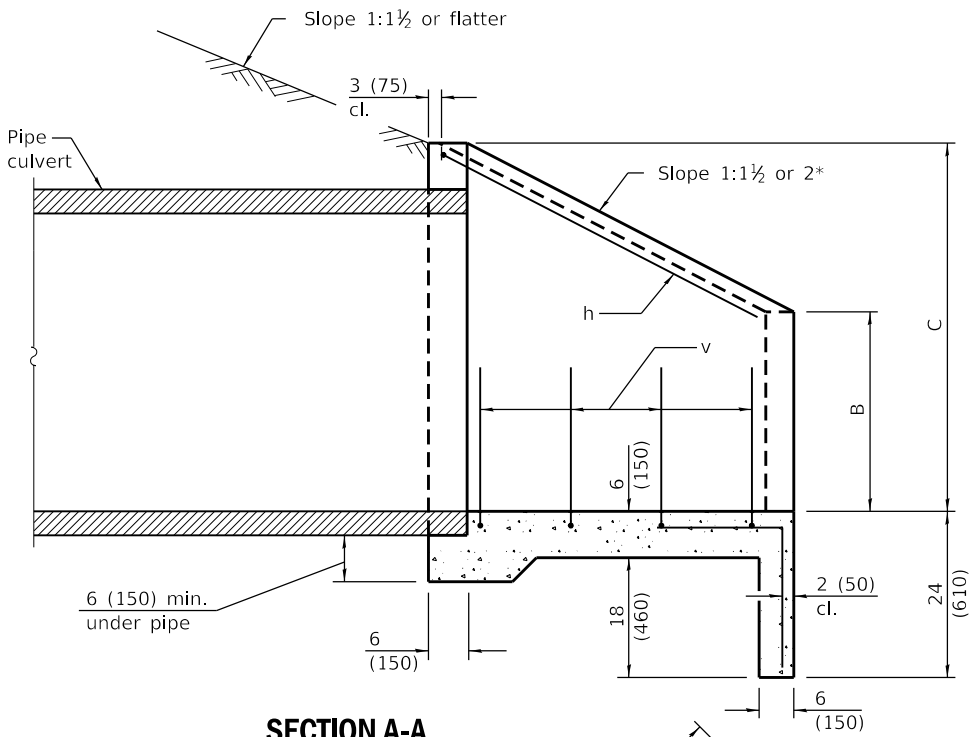


BARS - h to h₉

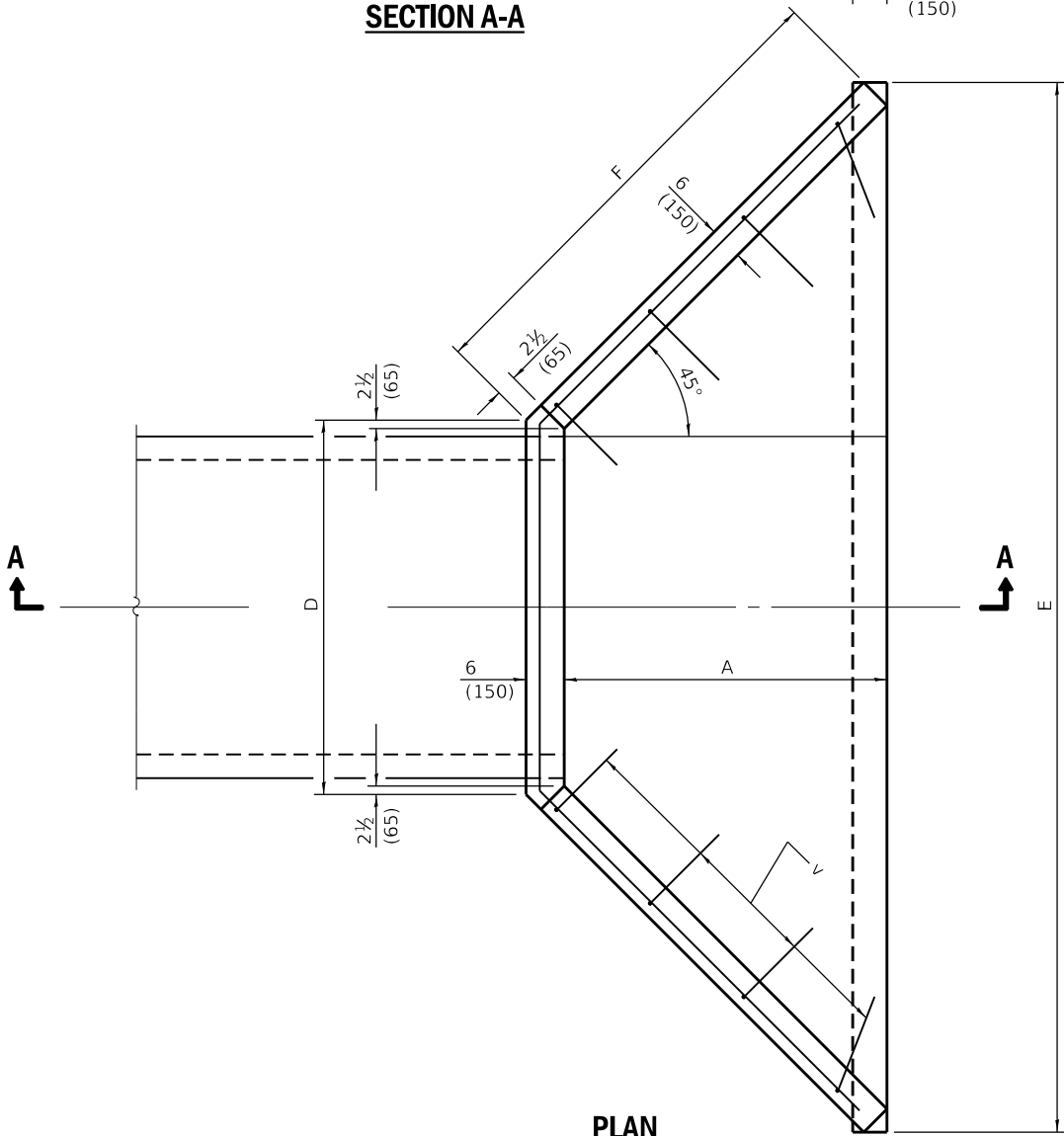
GENERAL NOTES

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.



SECTION A-A



PLAN

MODEL Default
FILE Name: 30201811BL018 Various Structure IDOT D3 Farnsworth RTB 161211Work Order 14 - L80 Roadway and otherCADD/CADD SheetsD366121-shr-details502-14.dgn

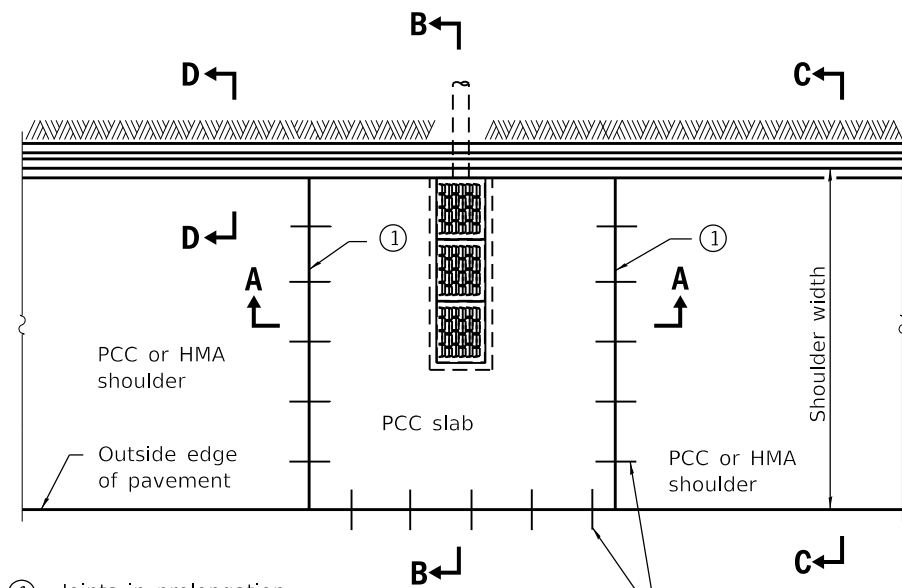
USER NAME = smaxwell	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/2/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS
15" (375 mm) THRU 36" (900 mm) DIA. AT RIGHT ANGLES WITH ROADWAY

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

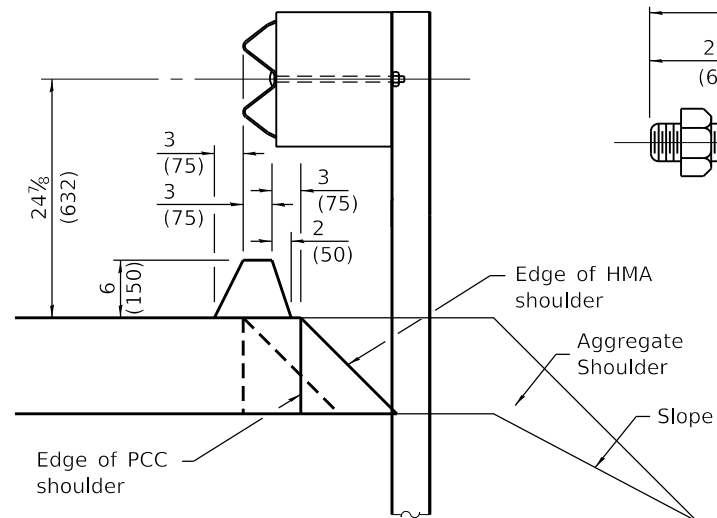
F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	297
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				



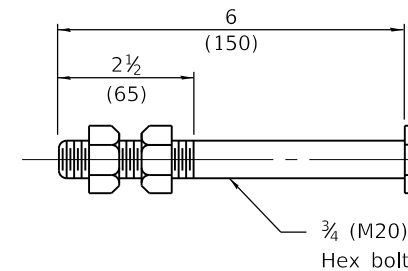
PLAN

① Joints in prolongation with existing joints in pavements.

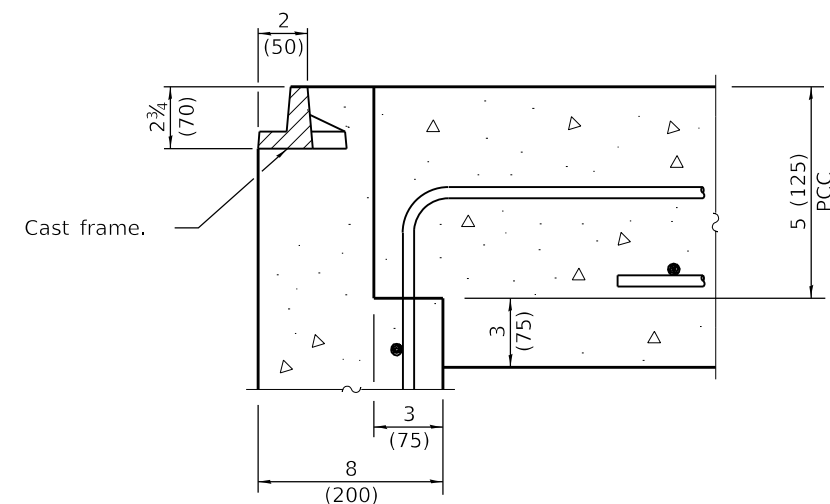
No. 6 (No. 19) Tie bars or expansion anchor ties at 36 (900) cts.



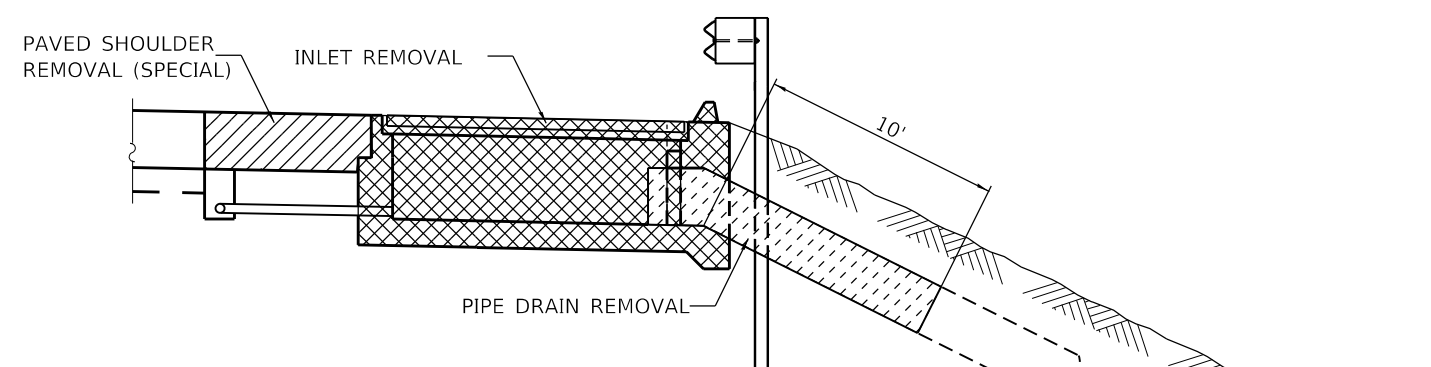
DETAIL B



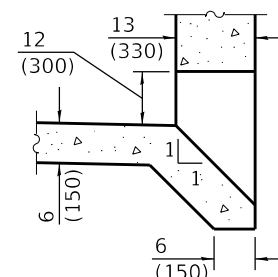
ANCHOR BOLT
(Used to tie pipe to concrete collar)



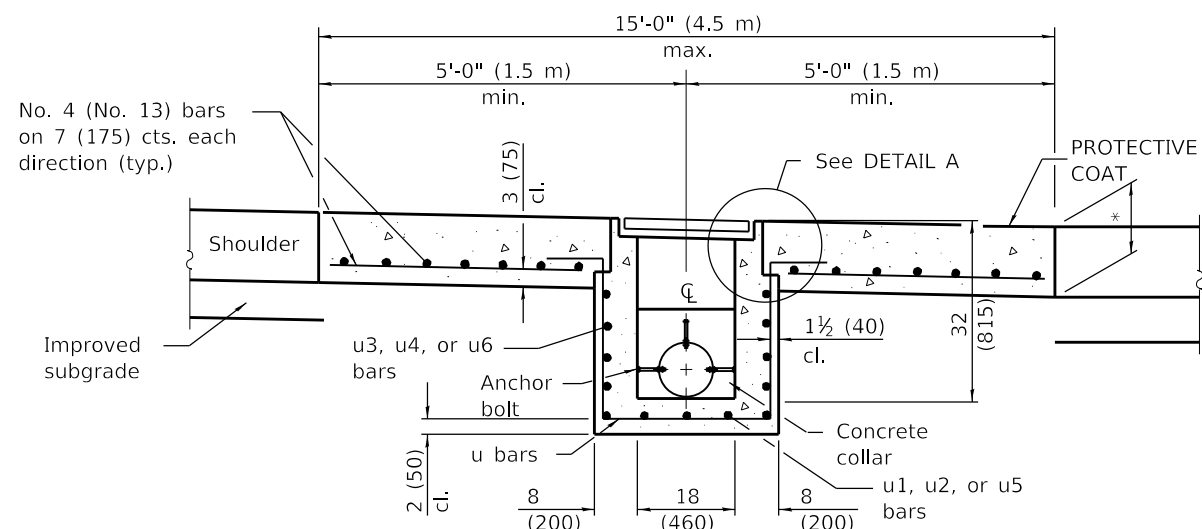
DETAIL A



SHOULDER INLET REMOVAL



BOX OUTLET WHEN PRECAST



SEC. A-A

* PCC slab thickness same as adjacent shoulder.

GENERAL NOTES

See Standard 420001 for joint details not shown.

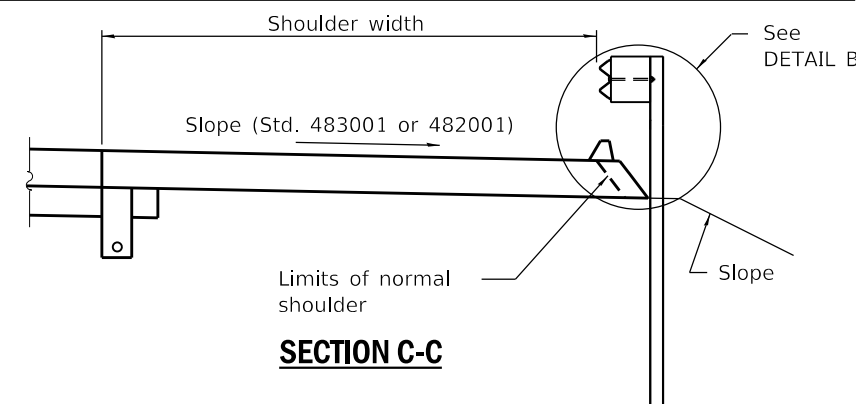
See Standard 630001 for details of guardrail not shown.

All exposed edges of the inlet, except the upper perimeter, shall be beveled $\frac{3}{4}$ (20).

For placement of drainage elements on existing construction with existing rigid pavement, substitute expansion anchor ties for tie bars. For nonrigid pavements or monolithic construction of PCC slab and shoulder, omit tie bars.

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

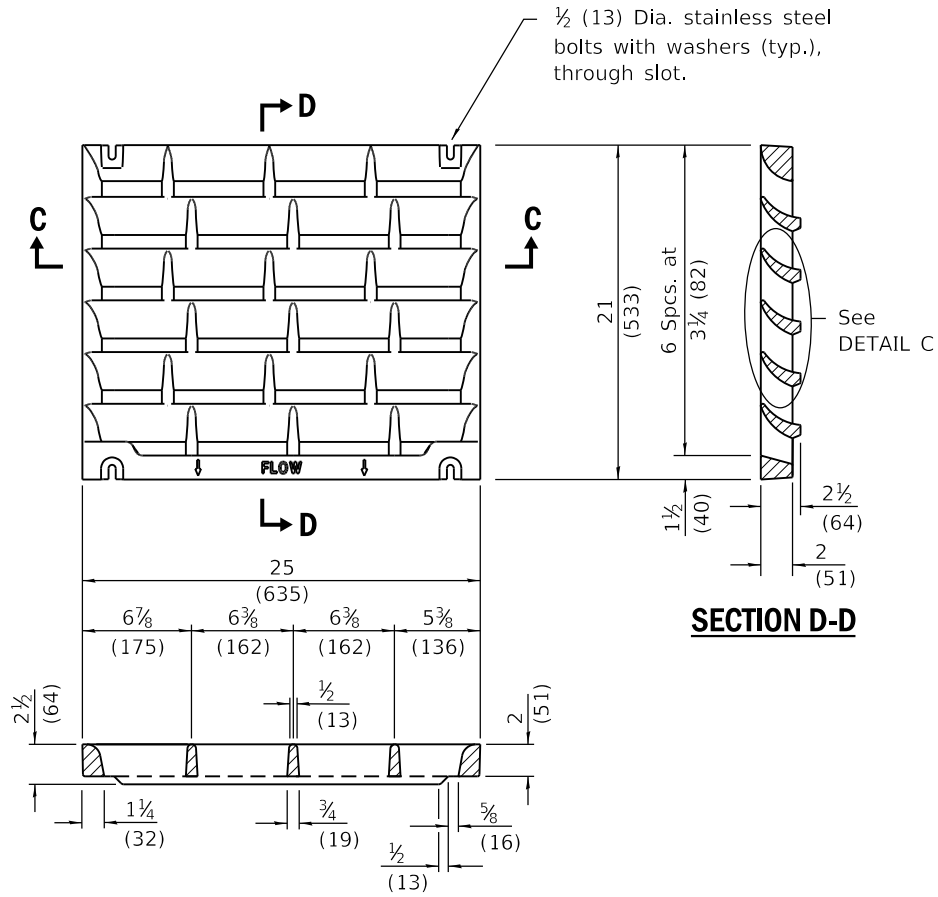
INLET TYPE	SHOULDER WIDTH	O-O GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
Type E	8' (2.4 m)	4'-4" (1.325 m)	3'-11" (1.195 m)	18 (460)
Type F	10' (3.0 m)	6'-5" (1.960 m)	6'-0" (1.830 m)	18 (460)
Type G	5' (1.5 m) or less	27 (690)	22 (560)	18 (460)



SECTION C-C

MODEL: Default
FILE NAME: 3/2/2018\BIL018 Various Structure IDOT D3 Farnsworth RTB 16121Work Order 14 - L&B Roadway and otherCADD\CADD Sheets\B66171-sh-detaill6 10001-08.dgn

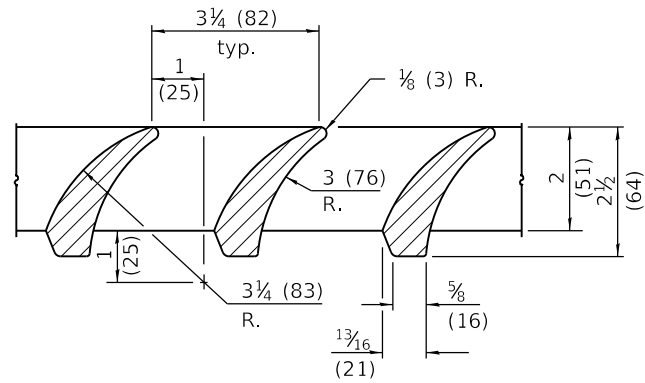
MODEL: Default
FILE NAME: 30201811BL018 Various Structure IDOT D3 Farnsworth RTB 16121Work Order 14 - L80 Roadway and otherCADD/CADD Sheets/D366121-sh-detaile6.10001-08.dgn



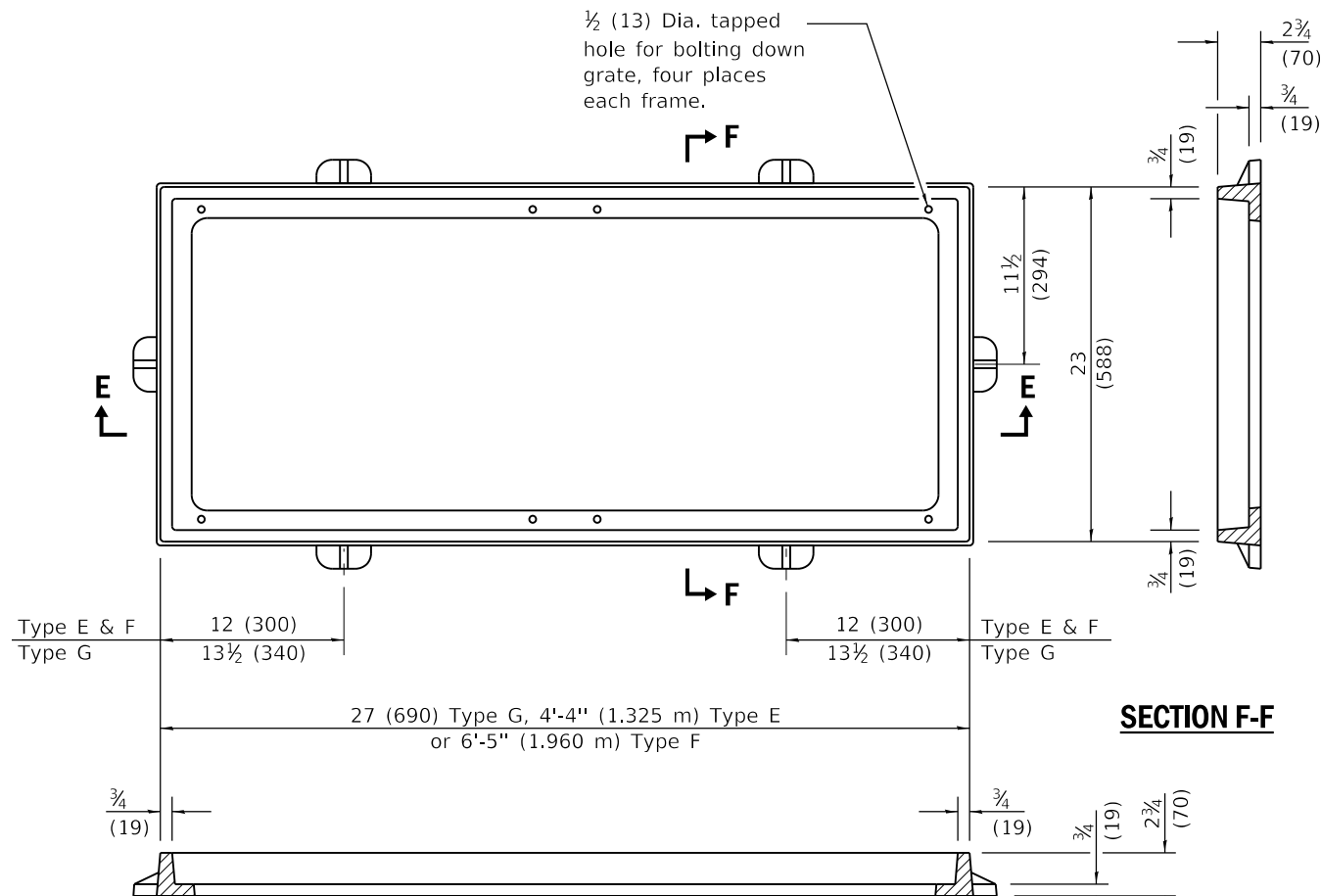
SECTION C-C

DETAIL OF CAST GRATE

Type G requires 1 grate
Type E requires 2 grates
Type F requires 3 grates



DETAIL C

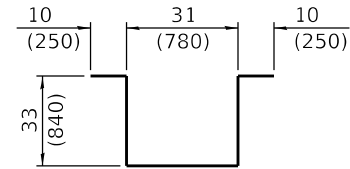


SECTION E-E

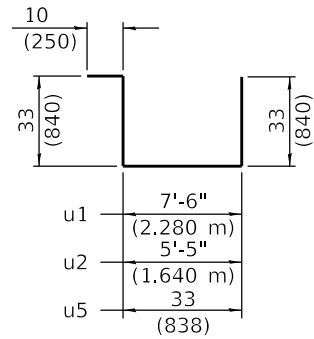
SECTION F-F

DETAIL OF CAST FRAME

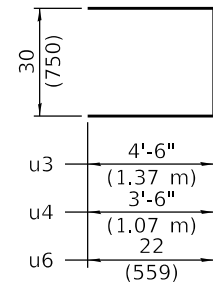
(Type E shown)



BAR u



BARS u1, u2, & u5



BARS u3, u4 & u6

INLET BOX

REQUIRED MATERIAL			
TYPE F			
Bar	Qty.	Size	Length
u	8	No. 4 (No.13)	9'-9" (2.96 m)
u1	3	No. 4 (No.13)	13'-10" (4.21 m)
u3	6	No. 4 (No.13)	11'-6" (3.49 m)
Concrete	cu. yds. (m³)	1.7 (1.3)	
Reinf. bars	lbs. (kg)	126 (57.2)	
Grating	sq. ft. (m²)	10.9 (1.02)	
TYPE E			
Bar	Qty.	Size	Length
u	6	No. 4 (No.13)	9'-9" (2.96 m)
u2	3	No. 4 (No.13)	11'-9" (3.57 m)
u4	6	No. 4 (No.13)	9'-6" (2.89 m)
Concrete	cu. yds. (m³)	1.3 (1.0)	
Reinf. bars	lbs. (kg)	101 (45.8)	
Grating	sq. ft. (m²)	7.3 (0.68)	
TYPE G			
Bar	Qty.	Size	Length
u	4	No. 4 (No.13)	9'-9" (2.69 m)
u5	3	No. 4 (No.13)	9'-1" (2.78 m)
u6	4	No. 4 (No.13)	6'-2" (1.87 m)
Concrete	cu. yds. (m³)	0.5 (0.4)	
Reinf. bars	lbs. (kg)	55 (25.0)	
Grating	sq. ft. (m²)	3.6 (0.34)	



QUIGG ENGINEERING INC

USER NAME	= smaxwell	DESIGNED	- TNS
DRAWN	- TNS	REVISED	-
PLOT SCALE	= 0:2.0000 " = 1" / in.	CHECKED	- MCV
PLOT DATE	= 10/2/2019	DATE	- 10/4/2019

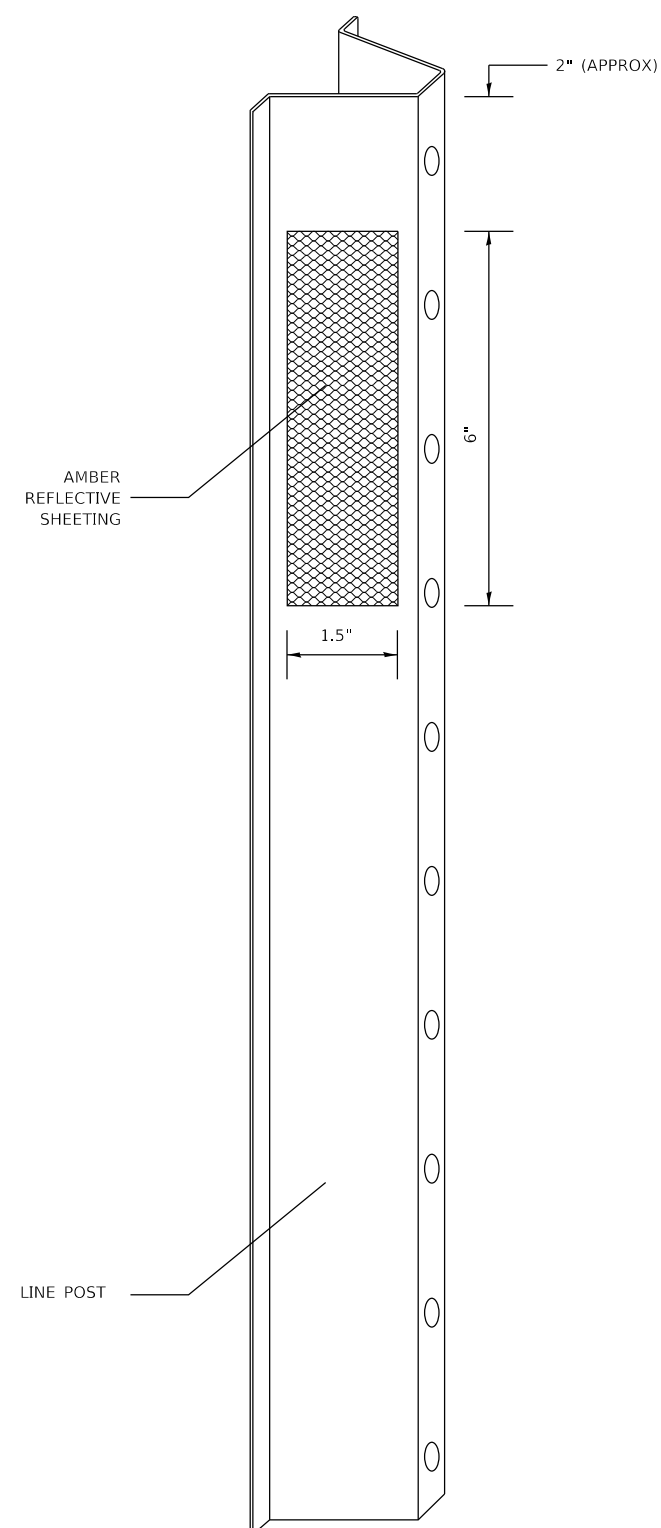
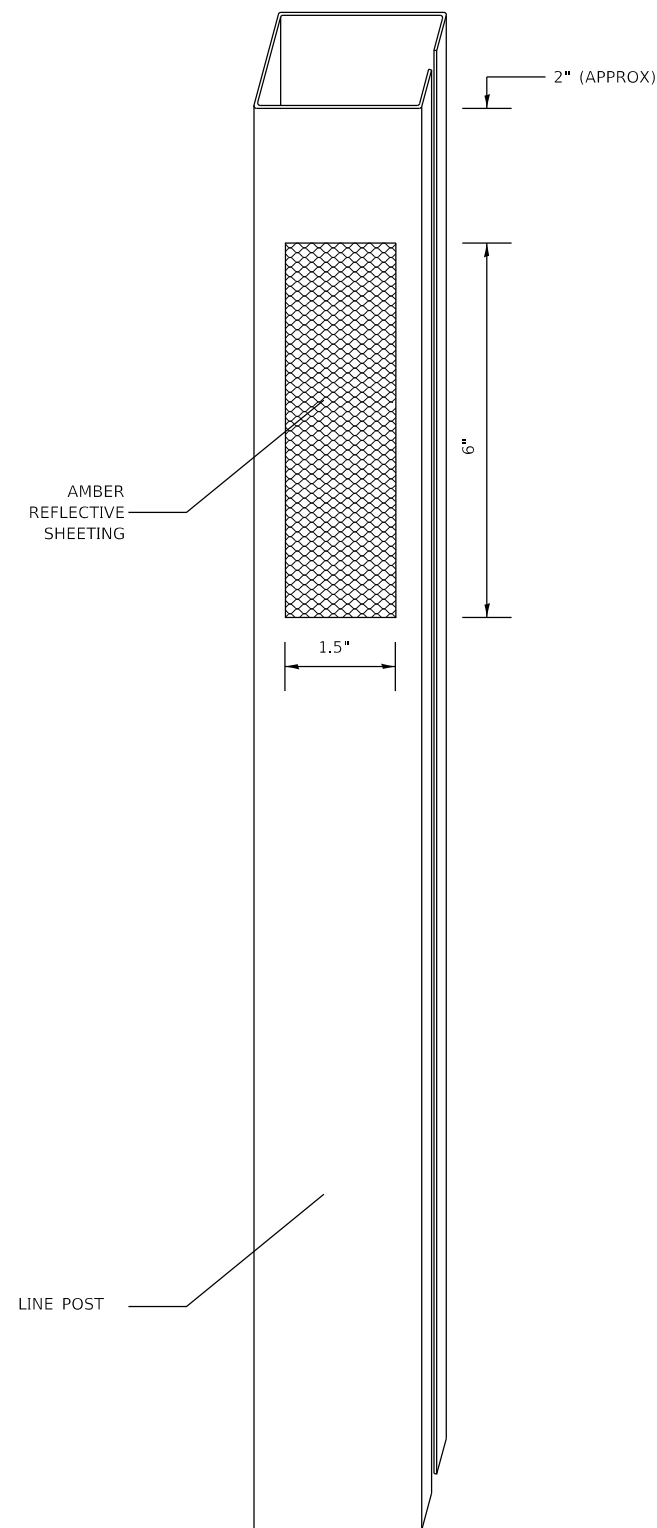
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHOULDER INLET WITH CURB
DETAIL

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	299
CONTRACT NO. 66H21				
ILLINOIS FED. AID PROJECT				



NOTES:

THE REFLECTIVE SHEETING SHALL BE INSTALLED AS DESCRIBED IN THE PLANS AND SPECIAL PROVISIONS.

THE REFLECTIVE SHEETING SHALL BE FACING ONCOMING TRAFFIC.

FILE NAME: DMS	USER NAME = corcoranlm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH TENSION CABLE MEDIAN BARRIER REFLECTORS				F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						80	50-2(HB-2)BDR(HB-1)BR(BR)BR-1	LASALLE	328	300
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -		DETAIL				CONTRACT NO. 66H21				
	PLOT DATE = 10/18/2019	DATE - 10/4/2019	REVISED -										
					SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.			