

EXISTING STRUCTURE

The existing structure (169-259-04762) is a three span reinforced concrete slab bridge built in 1963 with spans of 30'-3", 39'-6", and 30'-3" and 39'-6" clear roadway. Existing superstructure to be removed.

HYDRAULIC SCOUR DATA

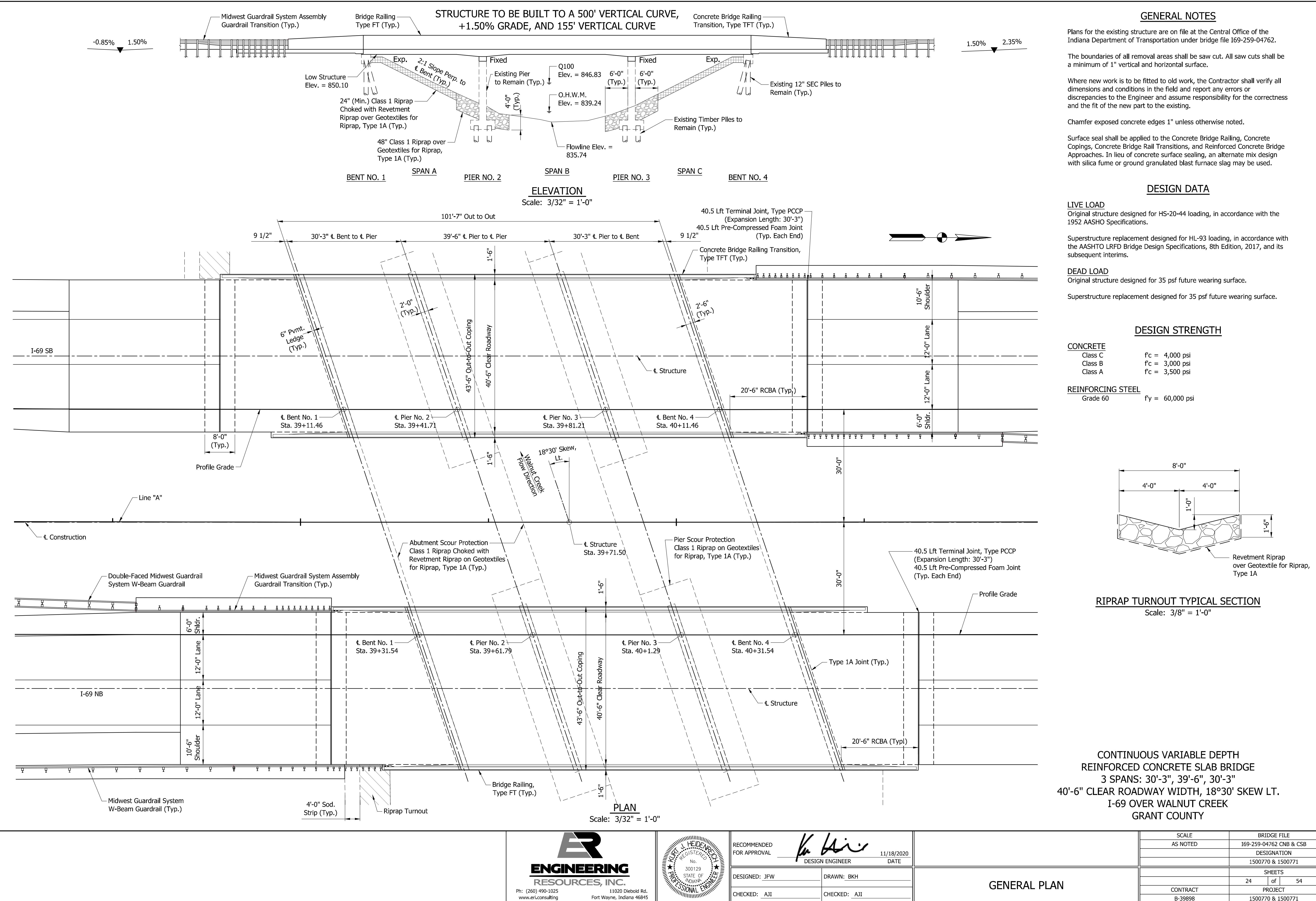
Q100 Discharge	= 3200 cfs
Q100 Elev.	= 846.83 ft
Velocity at Q100	= 8.39 ft/s
Scour Depth (Contraction)	= 17.03 ft
Scour Depth (Total)	= 21.53 ft
Low Scour Elev.	= 814.21 ft

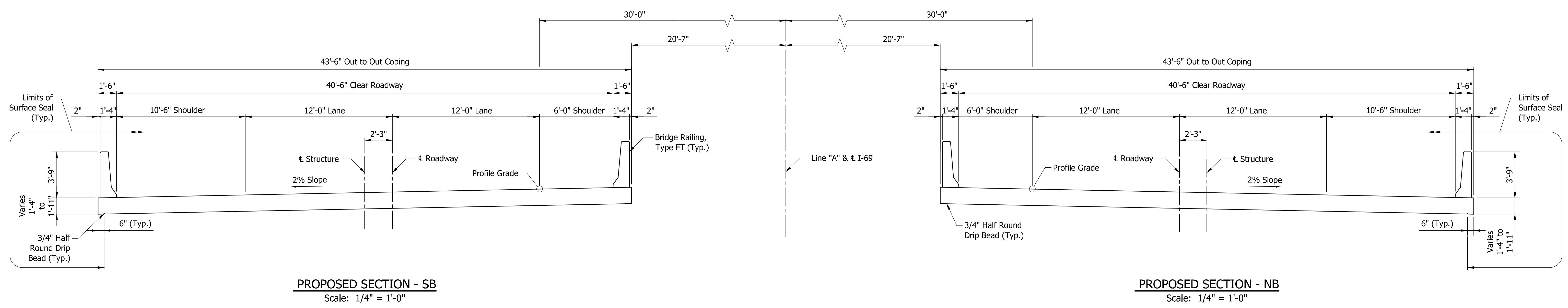
EARTHWORK TABULATION

Fill + 25%	625 cys
Common Excavation	2,240 cys
Wet Excavation	485 cys
Surplus Structure Backfill Excavation	675 cys
Waste	1,655 cys

Note: Temporary Runaround Earthwork Quantities are not Reflected in Earthwork Tabulation.

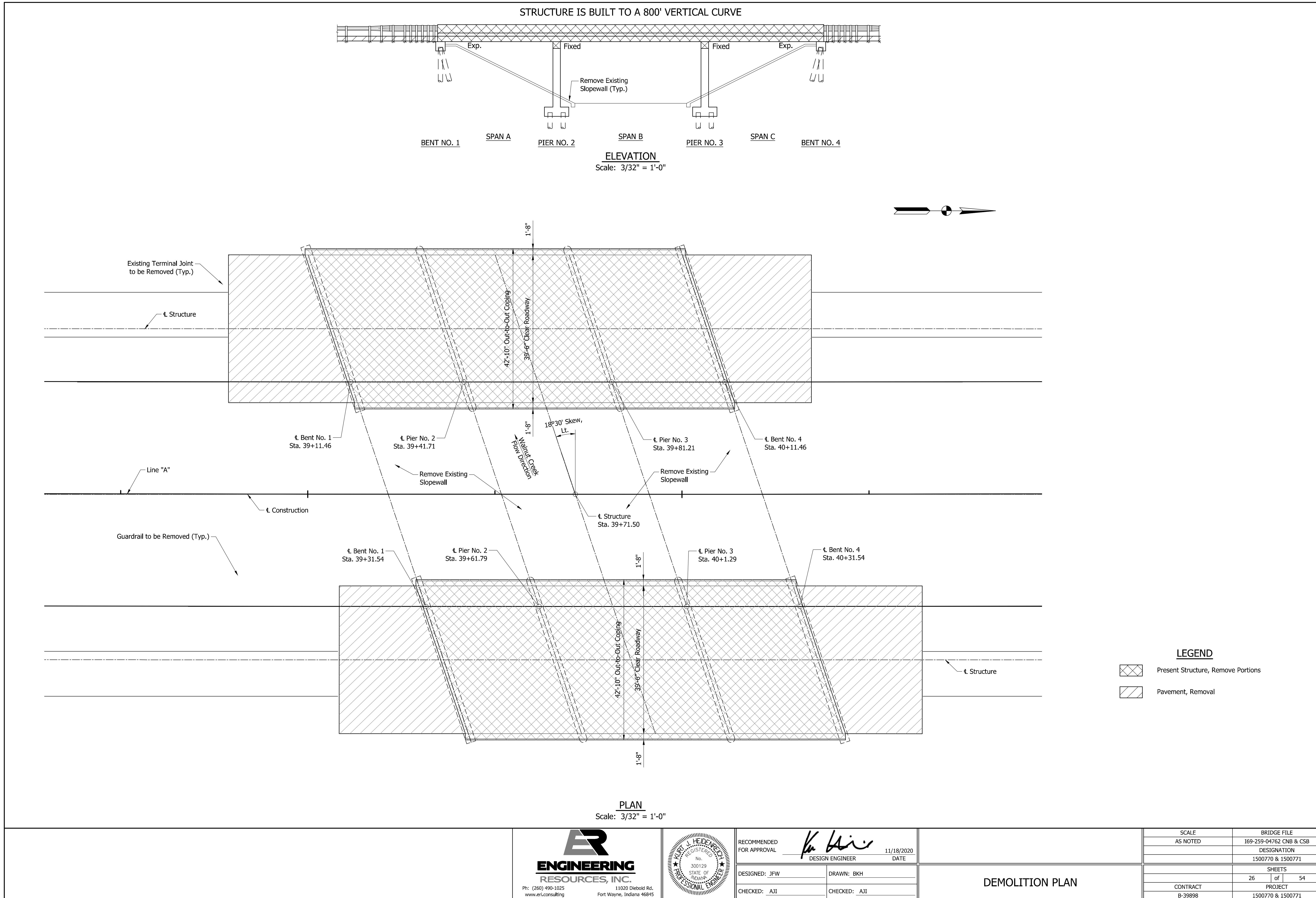
CONTINUOUS VARIABLE DEPTH
REINFORCED CONCRETE SLAB BRIDGE
3 SPANS: 30'-3", 39'-6", 30'-3"
40'-6" CLEAR ROADWAY WIDTH, 18°30' SKEW LT.
I-69 OVER WALNUT CREEK
GRANT COUNTY

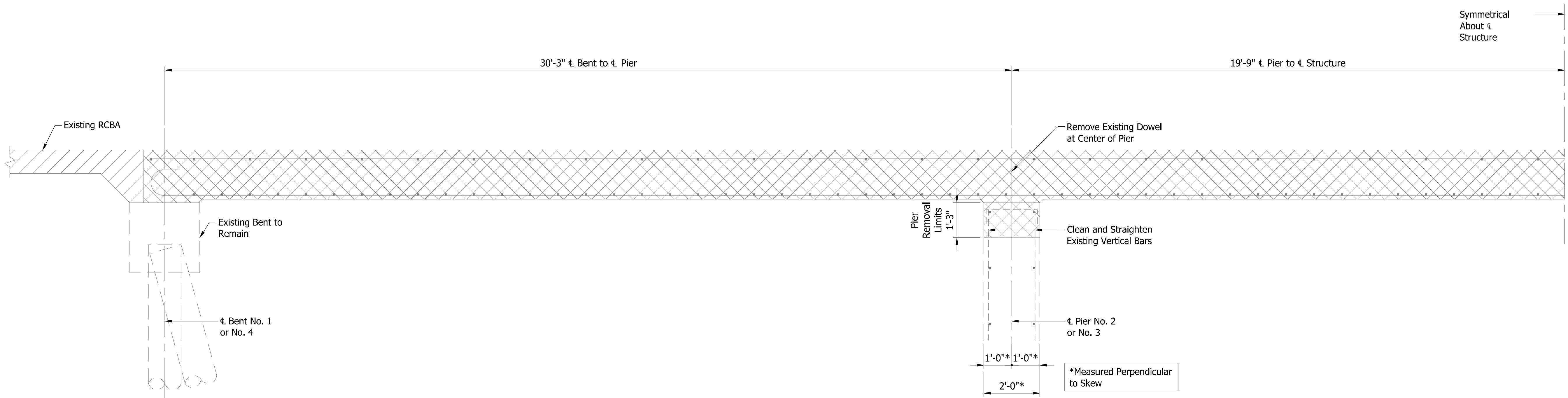




CONTINUOUS VARIABLE DEPTH
REINFORCED CONCRETE SLAB BRIDGE
3 SPANS: 30'-3", 39'-6", 30'-3"
-6" CLEAR ROADWAY WIDTH, 18°30' SKEW LT.
I-69 OVER WALNUT CREEK
GRANT COUNTY

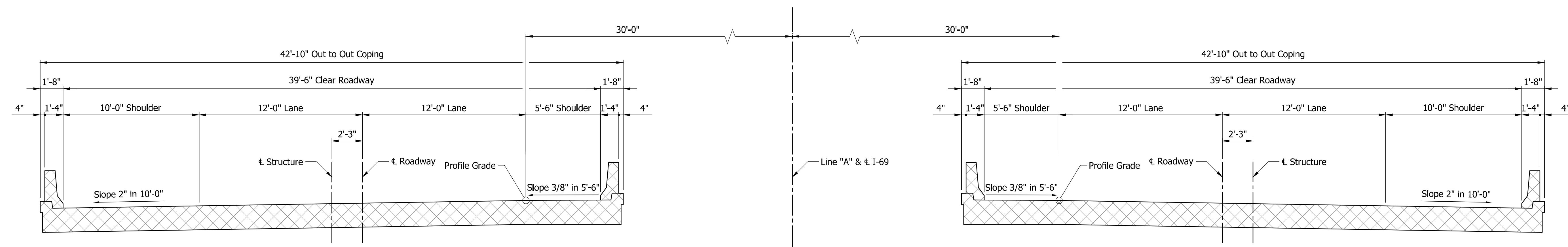






EXISTING HALF LONGITUDINAL SECTION

Scale: 1/2" = 1'-0"



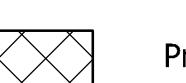
EXISTING SECTION - SB

Scale: 1/4" = 1'-0"

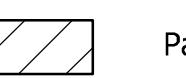
EXISTING SECTION - NB

Scale: 1/4" = 1'-0"

I FGFND



SECOND

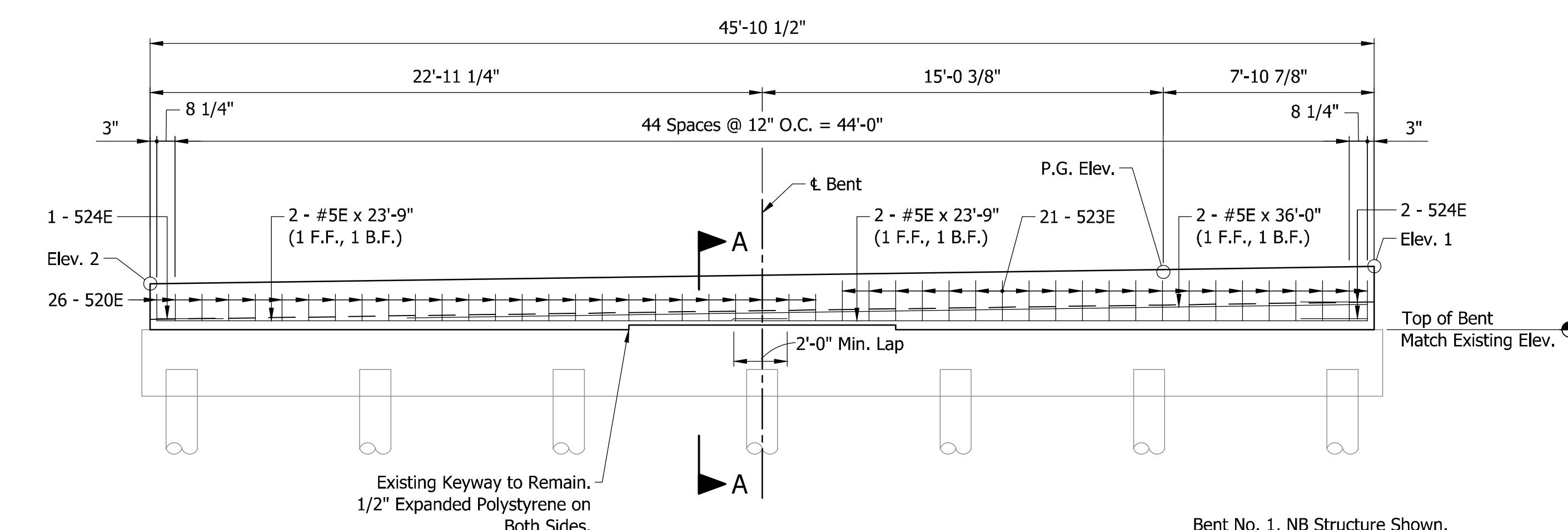
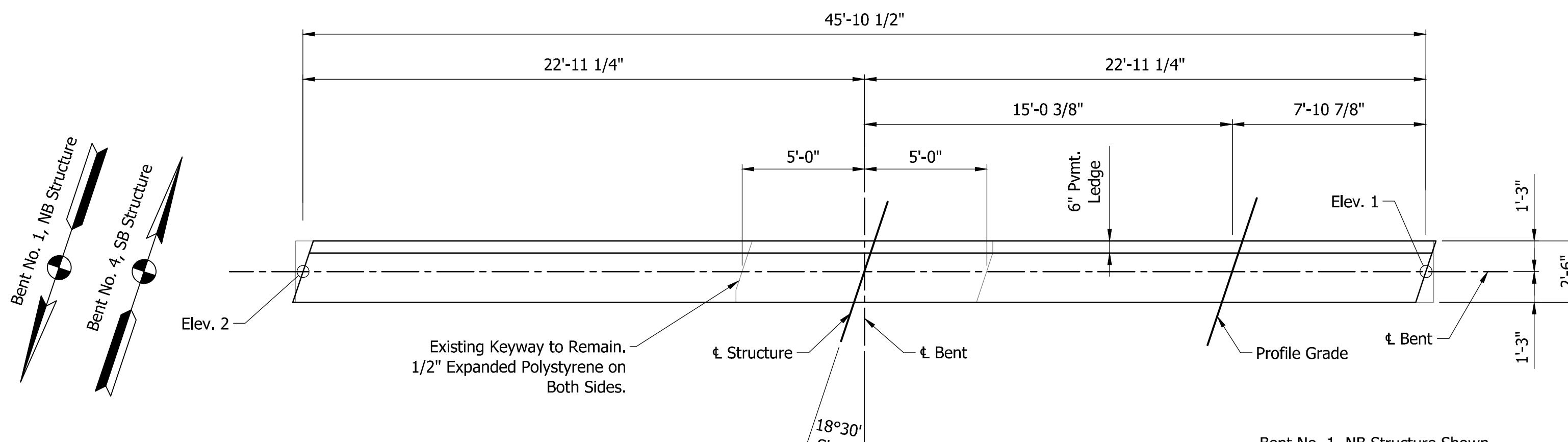
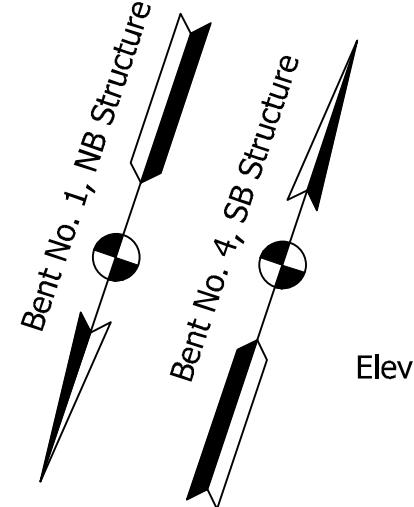
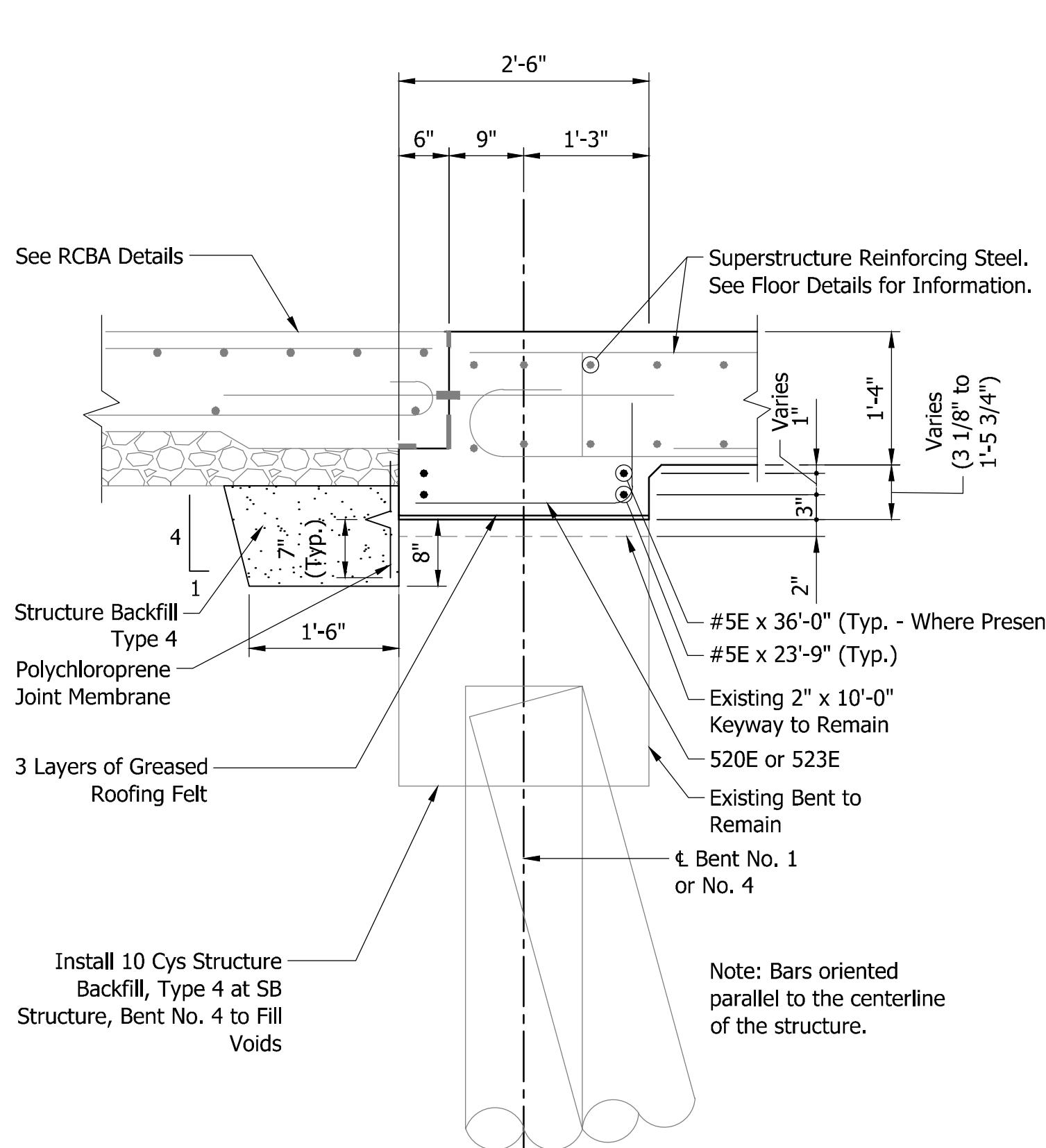


Movement, Removal

BILL OF MATERIALS			
END BENTS			
for ONE BRIDGE			
MARK OR SIZE	NO. REQ'D	LENGTH	WEIGHT
520E	52	3'-3"	
523E	42	4'-0"	
524E	6	7'-3"	
#5E	4	36'-0"	
#5E	8	23'-9"	
Total #5 Epoxy Coated Reinf. Bars			745#
Total Epoxy Coated Reinf. Bars			745#
MISCELLANEOUS			
Concrete, Class C, Superstructure*	5.8 CYS		
MISCELLANEOUS			
NB - Structure Backfill, Type 4	14 CYS		
SB - Structure Backfill, Type 4	24 CYS		

* Concrete Quantity Shown for Information Only. Volume is Included in the Quantity Shown on the Floor Details.

BENT ELEVATIONS				
Bent	Top of Bent	P.G. Elev.	Elev. 1	Elev. 2
NB - No. 1	850.32	852.58	852.69	852.04
NB - No. 4	851.85	854.08	854.19	853.56
SB - No. 1	849.78	852.27	852.46	851.37
SB - No. 4	851.14	853.77	853.96	852.87



BAR BENDING DETAILS

Not To Scale

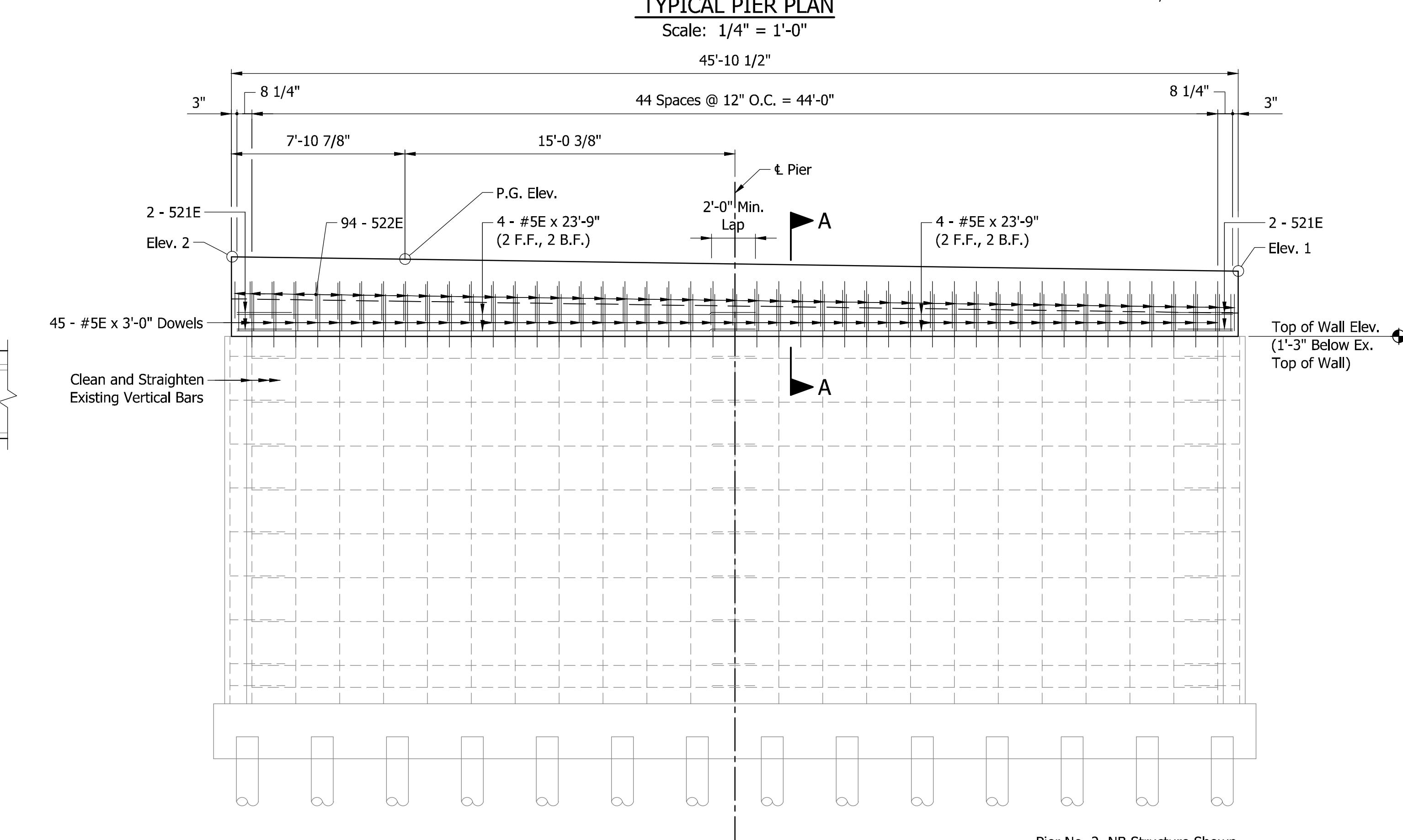
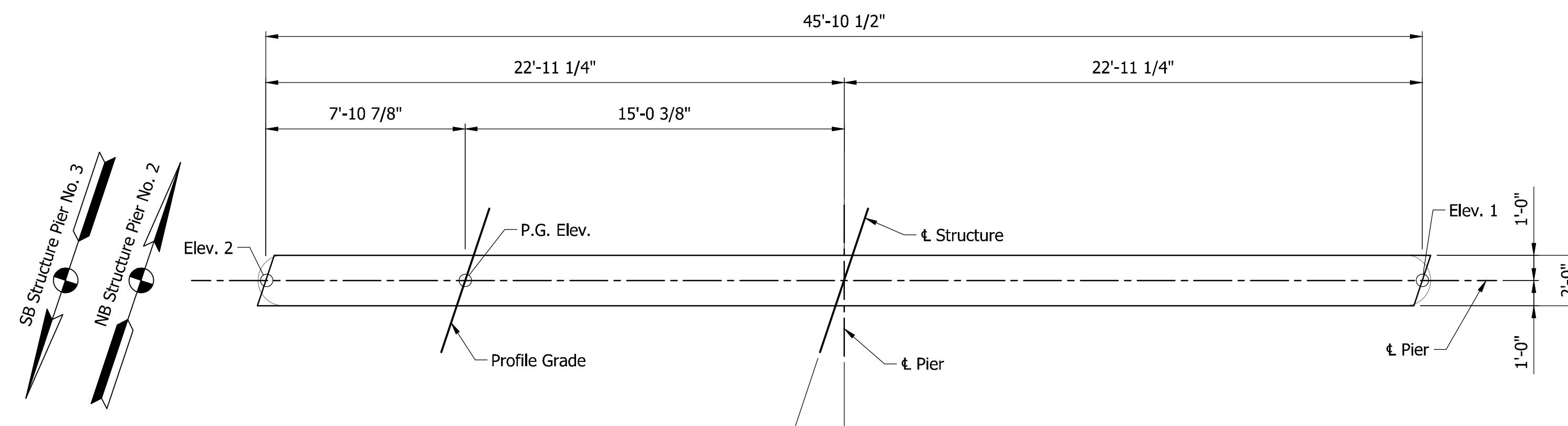
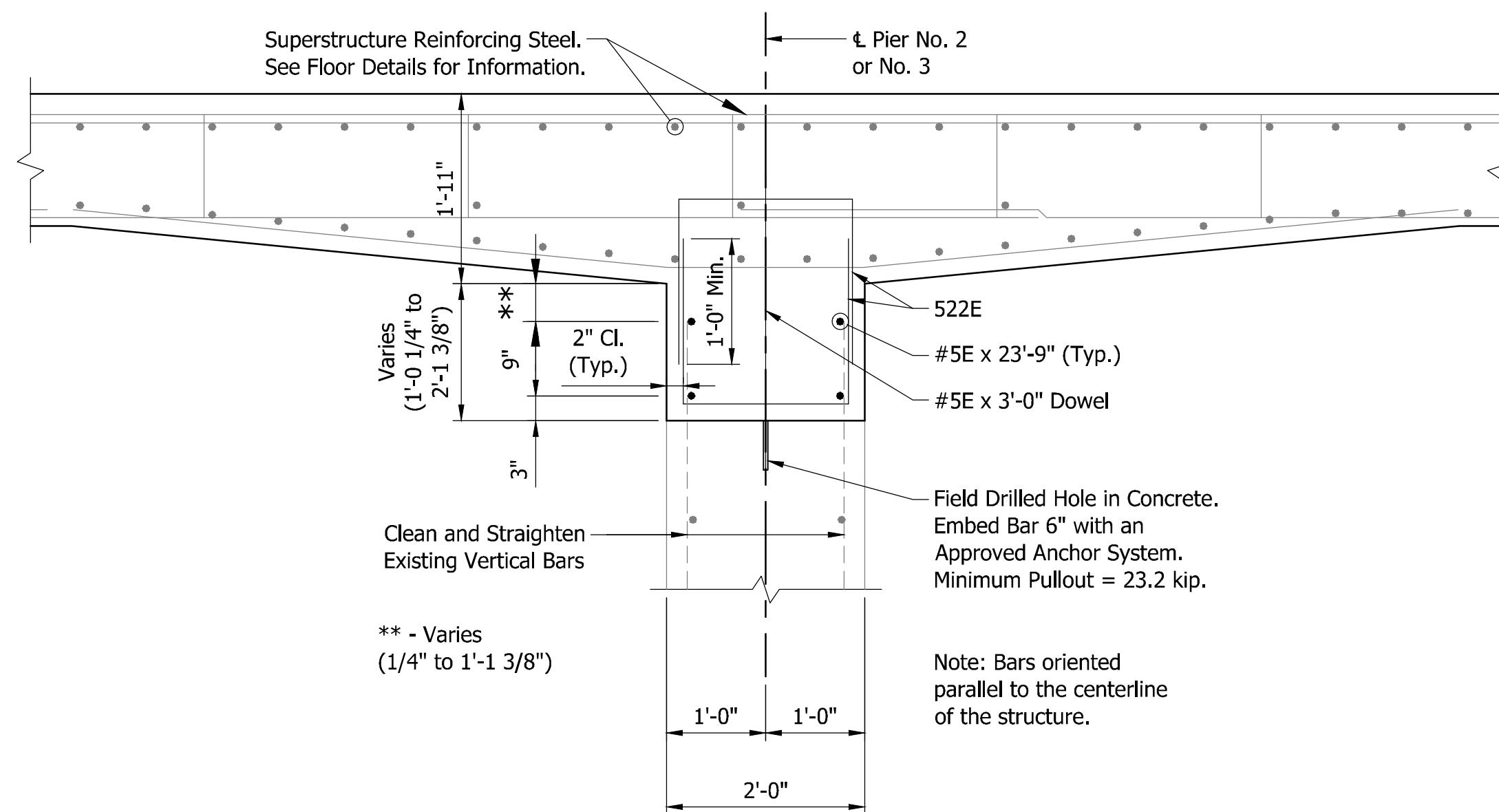
NOTES

All reinforcing bars shall be epoxy-coated.

For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.

For additional information, see Floor Details & RCBA Details.

PIER ELEVATIONS				
Pier	Top of Wall Elev.	P.G. Elev.	Elev. 1	Elev. 2
NB - No. 2	849.52	853.03	852.49	853.14
NB - No. 3	850.10	853.62	853.09	853.74
SB - No. 2	848.88	852.72	851.82	852.91
SB - No. 3	849.46	853.31	852.41	853.50

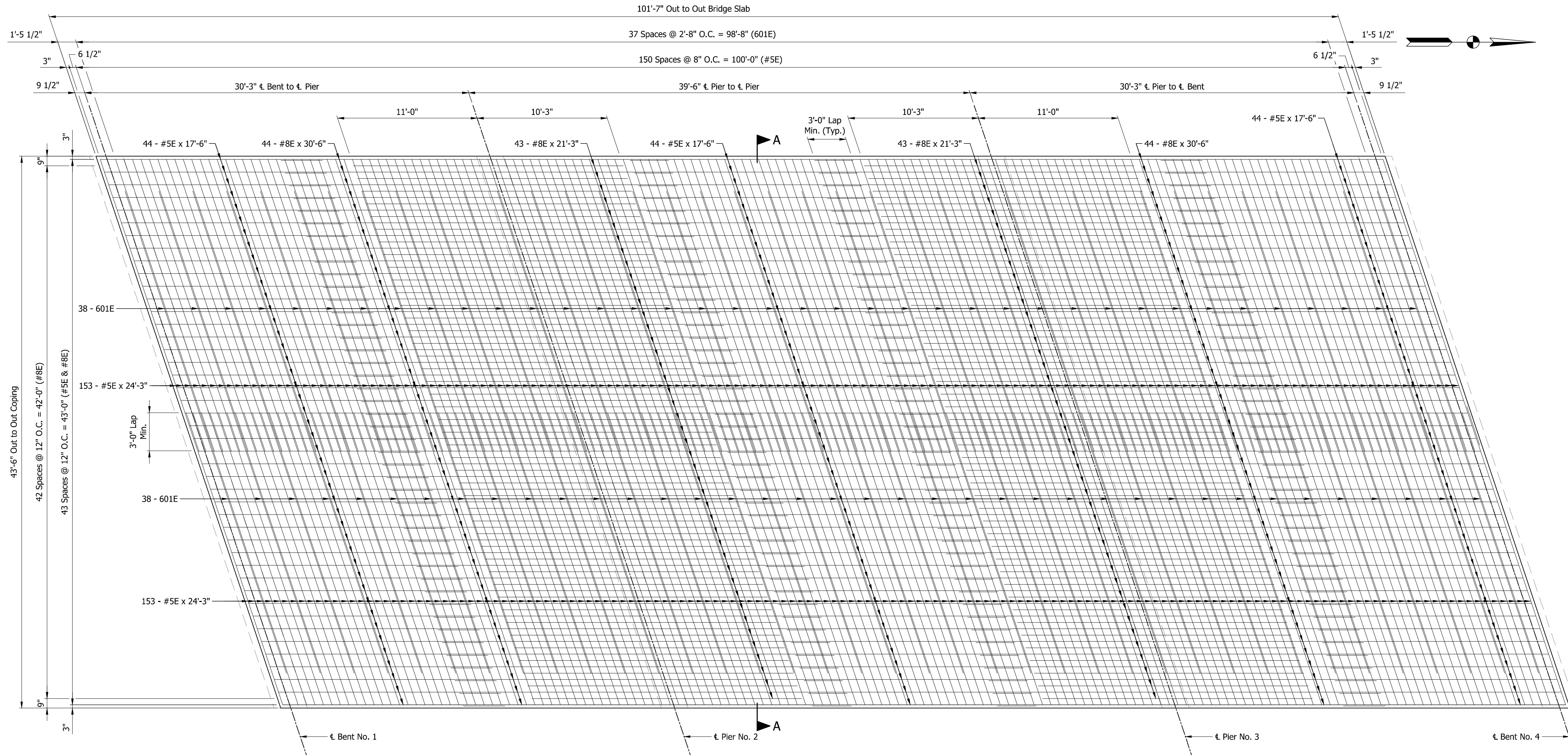


BILL OF MATERIALS			
PIERS			
for ONE BRIDGE			
MARK OR SIZE	NO. REQ'D	LENGTH	WEIGHT
521E	8	6'-9"	
522E	188	6'-5"	
#5E	16	23'-9"	
#5E	90	3'-0"	
Total #5 Epoxy Coated Reinf. Bars			1,992#
Total Epoxy Coated Reinf. Bars			1,992#
MISCELLANEOUS			
Concrete, Class C, Superstructure*		10.8 CYS	
MISCELLANEOUS			
Field Drilled Hole in Concrete		90 EA	

* Concrete Quantity Shown for Information Only. Volume is Included in the Quantity Shown on the Floor Details.

NOTES

- All reinforcing bars shall be epoxy-coated.
- For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
- See Sheet 28 for Bar Bend Details.
- For additional information, see Floor Details.



NOTES

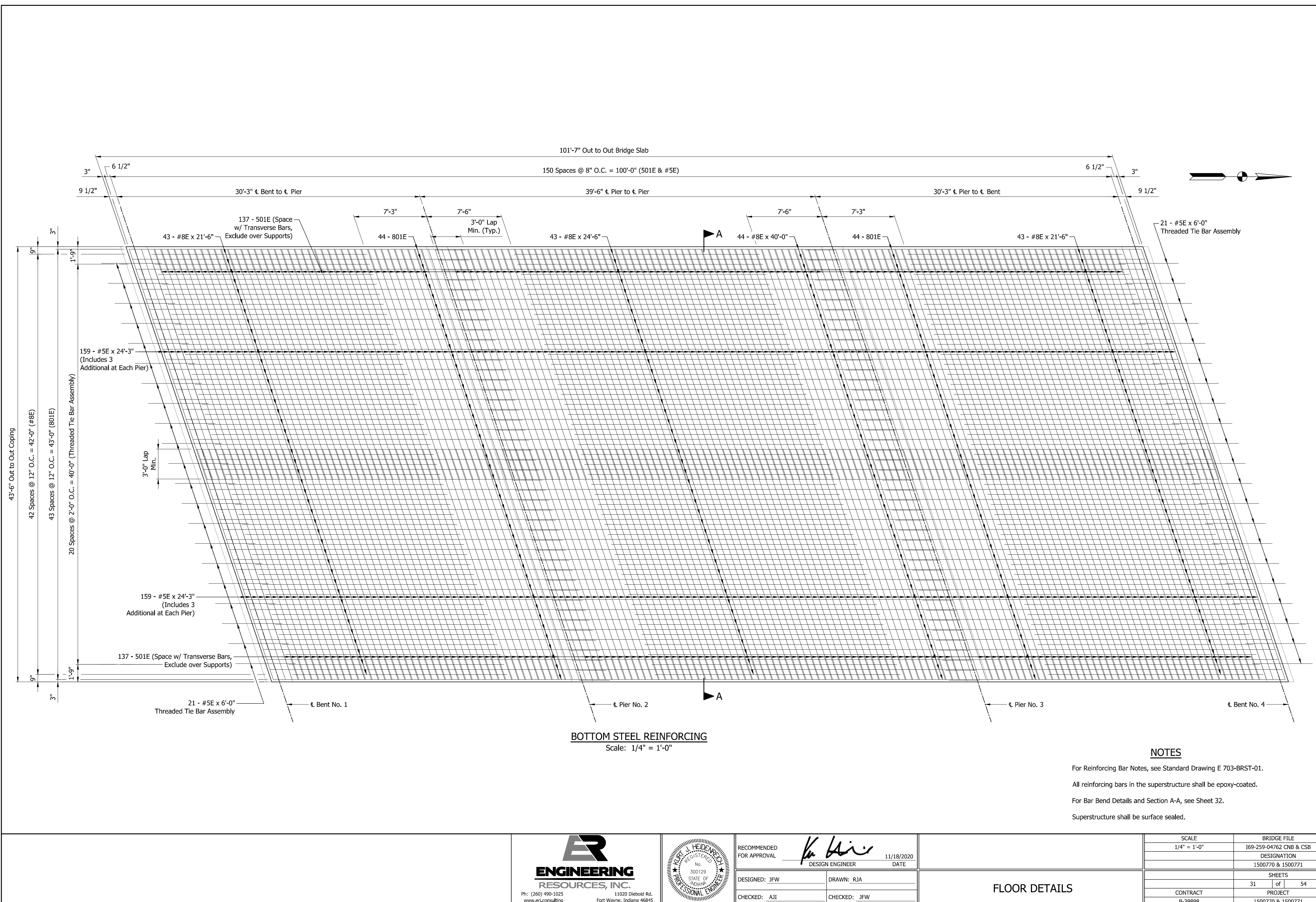
For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.

All reinforcing bars in the superstructure shall be epoxy-coated.

For Bar Bend Details and Section A-A, see Sheet 32.

Superstructure shall be surface sealed.

							SCALE	BRIDGE FILE
							1/4" = 1'-0"	I69-259-04762 CNB & CSB
							DESIGNATION	
								1500770 & 1500771
							SHEETS	
							30	of 54
							CONTRACT	PROJECT
							B-39898	1500770 & 1500771
FLOOR DETAILS								



BILL OF MATERIALS

SUPERSTRUCTURE

for ONE BRIDGE

MARK OR SIZE	NO. REQ'D	LENGTH	WEIGHT
801E	88	34'-8"	
#8E	44	40'-0"	
#8E	88	30'-6"	
#8E	43	24'-6"	
#8E	86	21'-6"	
#8E	86	21'-3"	
Total #8 Epoxy Coated Reinf. Bars			32,640#
601E	76	27'-6"	
Total #6 Epoxy Coated Reinf. Bars			3,139#
501E	274	7'-11"	
502E	88	14'-6"	
#5E	624	24'-3"	
#5E	132	17'-6"	
Total #5 Epoxy Coated Reinf. Bars			21,785#
Total Epoxy Coated Reinf. Bars			57,564#

CONCRETE

Concrete, Class C, Superstructure*	249.9 CYS
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MISCELLANEOUS

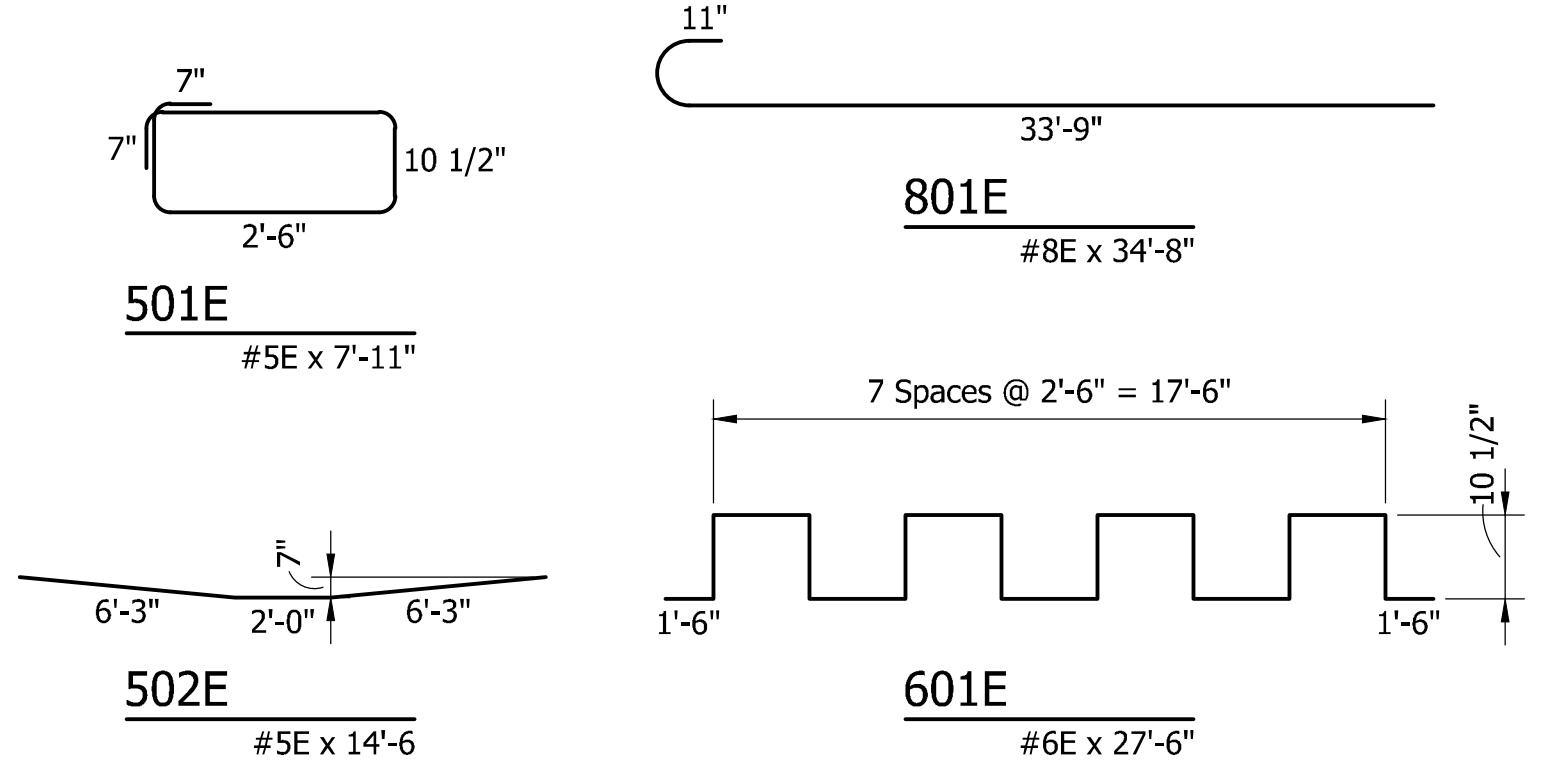
Threaded Tie Bar Assembly, Epoxy Coated, #5E	42 EA
Surface Seal**	4,607 SFT

* - Includes Bent & Pier Volumes.

** - Shown for Information Only. Paid for as LSUM.

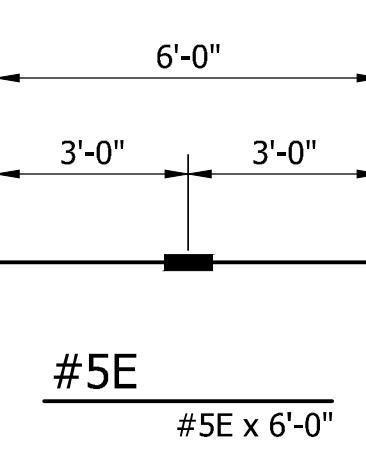
BAR BENDING DETAILS

Not To Scale



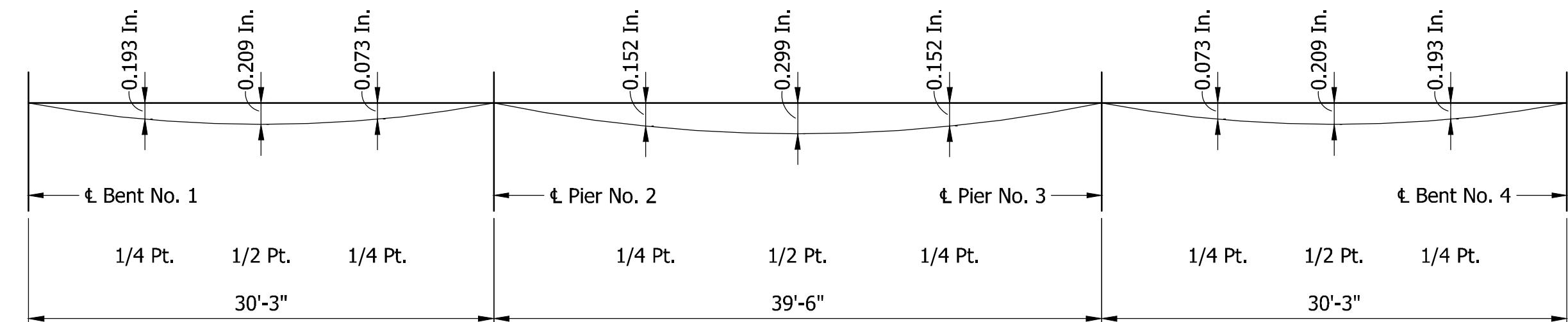
THREADED TIE BAR ASSEMBLY, EPOXY COATED

Not To Scale

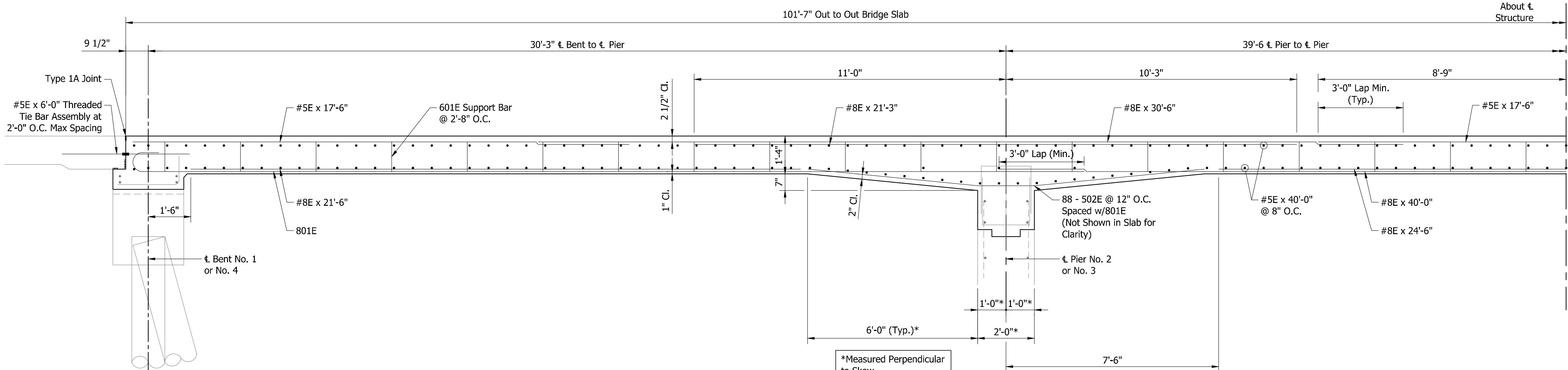


DEADLOAD DEFLECTION DIAGRAM

Not To Scale

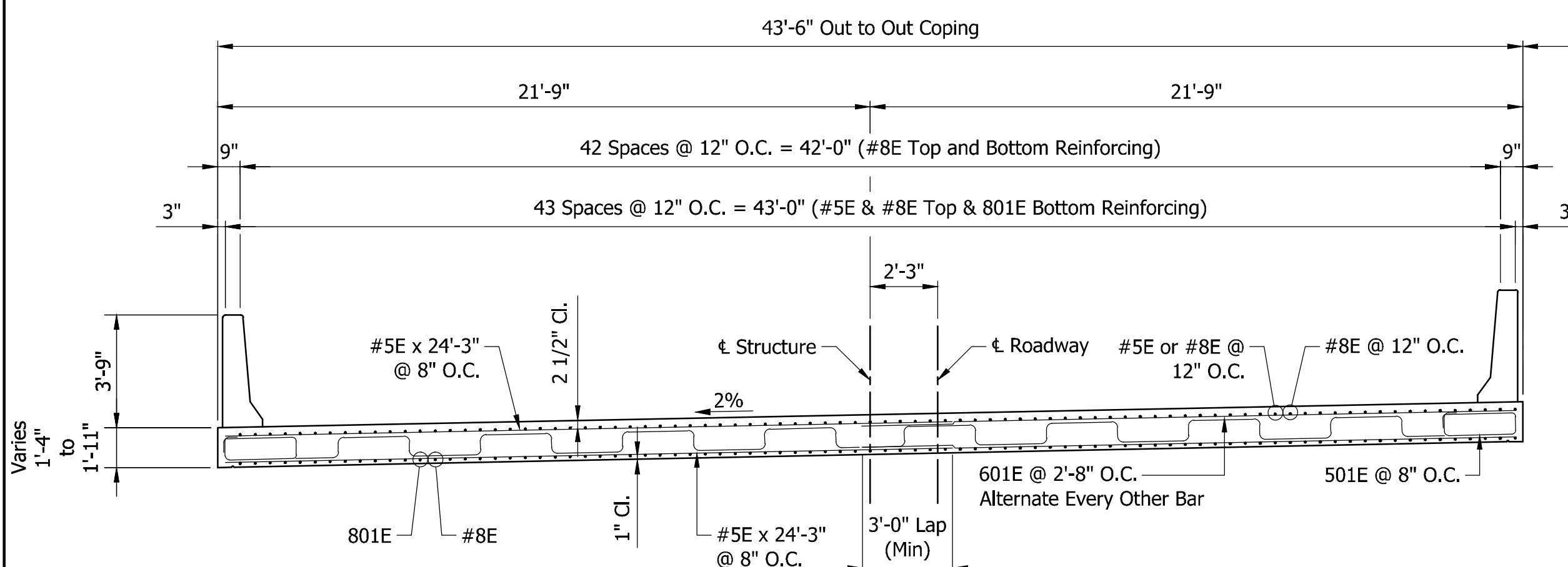


Symmetrical
About $\frac{1}{4}$
Structure



HALF LONGITUDINAL SECTION

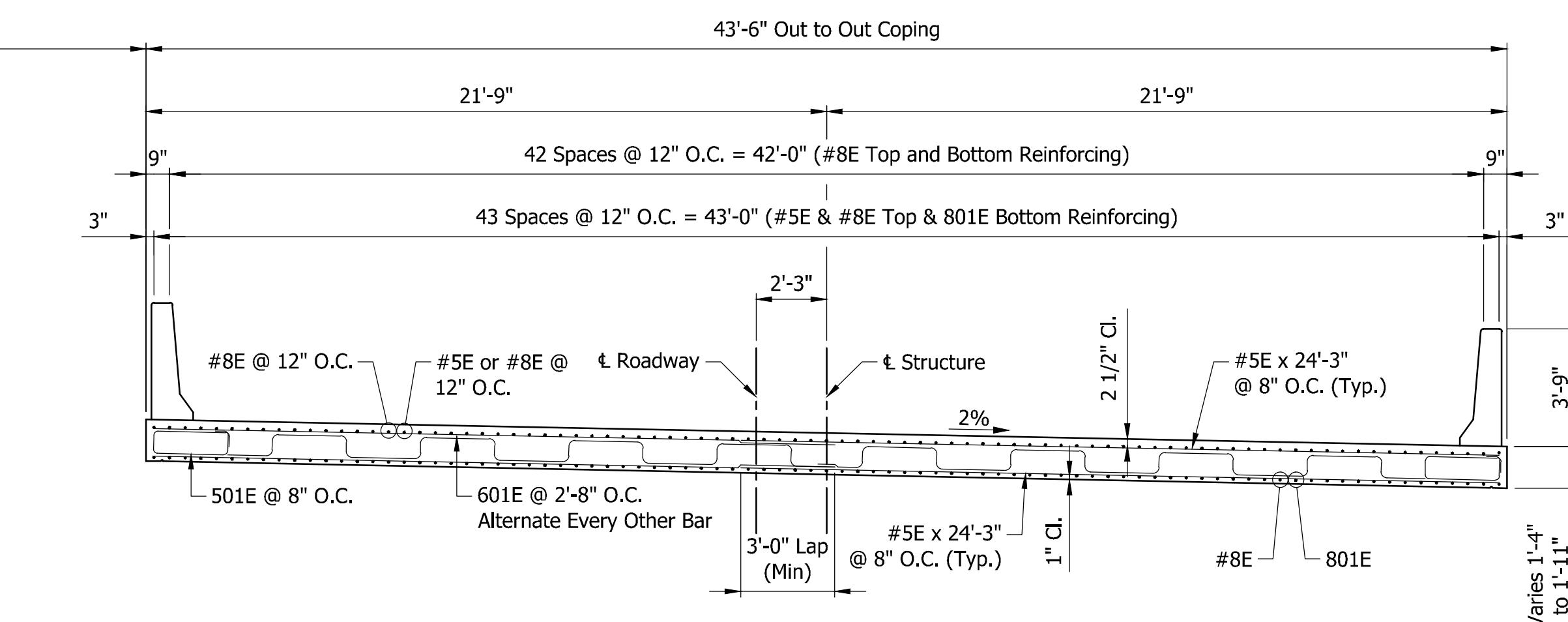
Scale: 1/2" = 1'-0"



PROPOSED SECTION - SB

SECTION A-A

Scale: 1/4" = 1'-0"



PROPOSED SECTION - NB

SCALE	BRIDGE FILE
AS NOTED	I69-259-04762 CNB & CSB
DESIGNATION	
	1500770 & 1500771
SHEETS	
32	of 54
CONTRACT	PROJECT
B-39898	1500770 & 1500771

FLOOR DETAILS