ITD OVERLOAD VEHICLE BRIDGE PERMIT

Permit No. _____

BRIDGE ANALYSIS BY:

ANALYST:	Shanon Murgoitio, P.E.
DATE:	7/31/2014
TIME:	10:00 A.M.

PERMIT REQUEST FOR:

COMPANY:	Bigge Crane and Rigging
UNIT:	Calumet Reactor (Job#13Q-9199) Rev 1
DRAWING NO.:	70 (Sheet 4 of 4)

Vehicle configuration and route are recorded on the attached sheets. This document is not valid without these attachments.

SPECIAL BRIDGE REQUIREMENTS:

The load is traveling from Lewiston, Idaho to the Idaho/Montana border via US-95 and SH-200. There are several bridges along this route that cannot be crossed by the load. Four bridges require a detour route (10520, 18480, 33700, & 19050) and three bridges require a temporary bridge (18525, 18705, & 19080). There is a set of special bridge crossing requirements that apply to all bridges. The requirements shown for specific bridges are in addition to the requirements for all bridges.

Route BrKey	Milepost	Requirements	Traffic Control
For all Bridges on Route		For bridges without median barriers: * The load must travel down the center of the bridge. * The load must be the only vehicle on the bridge. For bridges with median barriers: * The load must travel down the center of the travelway. * The load must be the only vehicle in direction of travel.	* Shall be in accordance with the approved transportation and traffic control plans.
US 95 Ramp NBL 10520	0.168 (Lewiston)	* The load must detour around the bridge.	
US 95 18480	319.064	* The load must detour around the bridge.	
US 95 18511	344.004	* Speed must not exceed 10 mph.	
US 95 18520	352.855	* Speed must not exceed 10 mph.	
US 95 18525	357.495	* Temporary bridge to be used as shown in the attached drawing. * Temporary bridge specifications shall be in accordance with the structural analysis report by Forsgren Associates dated 7/29/14. * Speed must not exceed 5 mph while crossing temporary bridge. * No sudden stops or starts shall be made on the temporary bridge. * The distance between the bottom of the temporary bridge and top of the bridge deck of structure 18525 must be greater than zero at all times and field verified during the move.	
US 95 18535	360.460	* Speed must not exceed 10 mph.	
US 95 18545	361.541	* Speed must not exceed 10 mph.	
US 95 18575	381.084	* Speed must not exceed 10 mph.	
US 95 18600	393.350	* Speed must not exceed 10 mph.	
US 95 33550	411.604	* Speed must not exceed 10 mph.	
US 95 18680	429.398 (Coeur d'Alene)	* Speed must not exceed 10 mph.	
US 95 18690	430.592	* Speed must not exceed 10 mph. * The load must travel down the center of the north bound lanes.	

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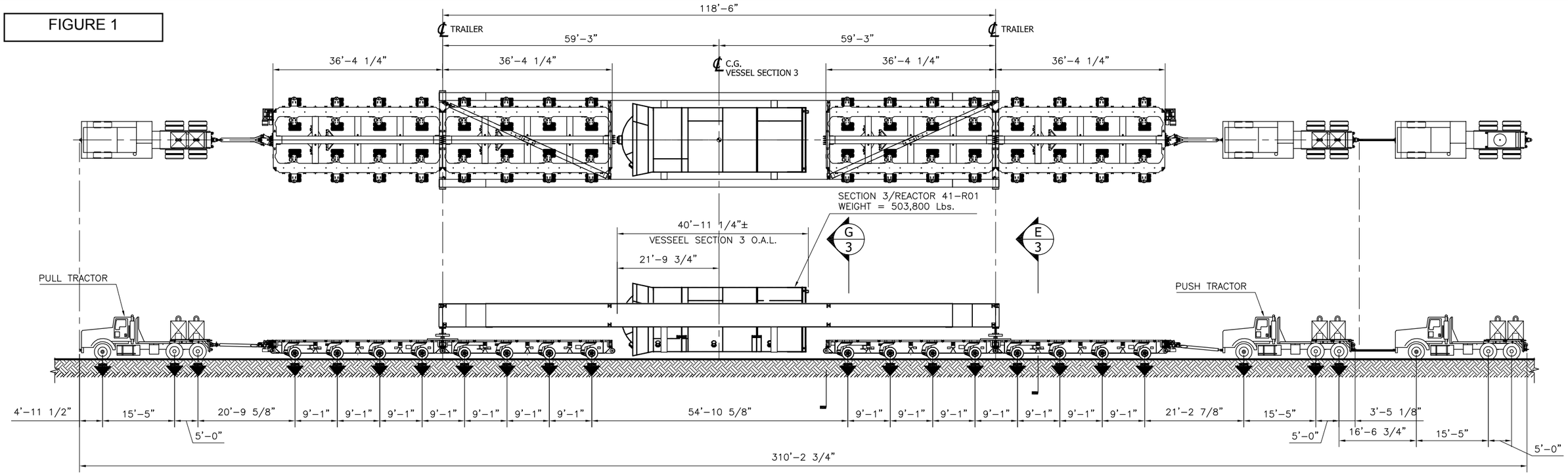
US 95 18705	461.315	* Temporary bridge to be used as shown in the attached drawing. * Temporary bridge specifications shall be in accordance with the structural analysis report by Forsgren Associates dated 7/29/14. * Speed must not exceed 5 mph while crossing temporary bridge. * No sudden stops or starts shall be made on the temporary bridge. * The distance between the bottom of the temporary bridge and top of the bridge deck of structure 18705 must be greater than zero at all times and field verified during the move.	
US 95 18715	471.743	* Speed must not exceed 10 mph.	
US 95 33700	473.853 (Sandpoint)	* The load must detour around the bridge.	
US 95 SB off Ramp 33705	10.055	* Speed must not exceed 10 mph.	
SH 200 19035	38.660	* Speed must not exceed 10 mph.	
SH 200 19050	44.770 (Hope)	* The load must detour around the bridge.	
SH 200B 19080 (Strong Creek)	45.925	* Temporary bridge to be used as shown in attached drawing. * Temporary bridge specifications shall be in accordance with the structural analysis report by Forsgren Associates dated 7/29/14. * Speed must not exceed 5 mph while crossing temporary bridge. * No sudden stops or starts shall be made on the temporary bridge. * The distance between the bottom of the temporary bridge and top of the bridge deck of structure 19080 must be greater than zero at all times and field verified during the move.	
SH 200 19065	51.592	* Speed must not exceed 10 mph.	
SH 200 19071	54.563	* Speed must not exceed 10 mph.	

PERMIT EXTENSIONS: Bridge permit may be valid for extentions if there have been no changes in the bridges on the route per the most recent issue of the Bridge Factor List.

Date of Extension	Permit Writer Name	Date of Bridge Factor List Referenced

Date of Extension	Permit Writer Name	Date of Bridge Factor List Referenced

FIGURE 1

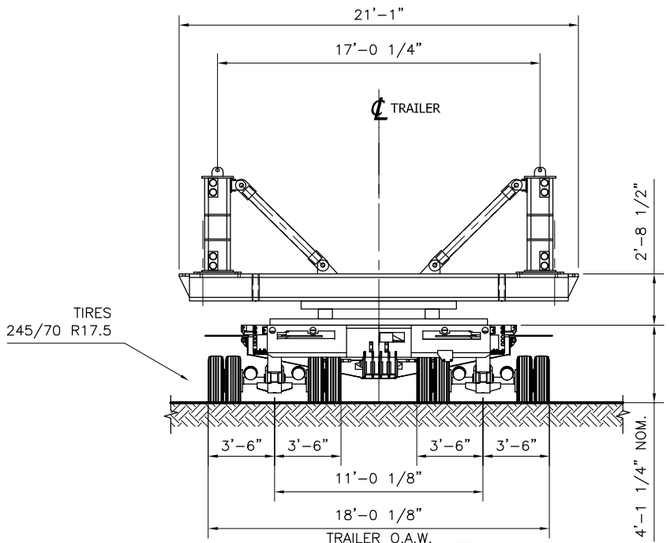


1	2	3	4	5	6	7	8	9	10	11
12,620	5,075	5,075	17,884	17,884	17,884	17,884	17,884	17,884	17,884	17,884
7,380	16,425	16,425	31,488	31,488	31,488	31,488	31,488	31,488	31,488	31,488
20,000	21,500	21,500	49,372	49,372	49,372	49,372	49,372	49,372	49,372	49,372
10,000	5,375	5,375	6,171	6,171	6,171	6,171	6,171	6,171	6,171	6,171
2 TIRES	4 TIRES	4 TIRES	8 TIRES	8 TIRES	8 TIRES	8 TIRES	8 TIRES	8 TIRES	8 TIRES	8 TIRES

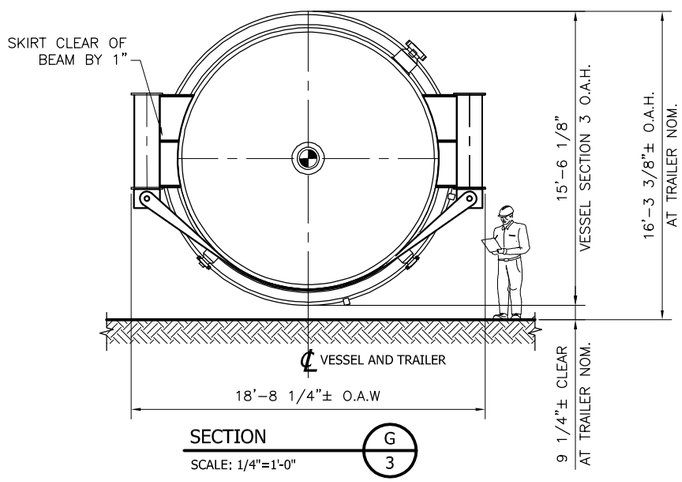
AXLE NUMBER	TOTALS
TARE WEIGHT	286,140
PAYLOAD	503,800
GROSS LOAD	789,940
GROSS WT./ TIRE	
NUMBER OF TIRES	

12	13	14	15	16	17	18	19	20	21	22	23	24	25
17,884	17,884	17,884	17,884	17,884	17,884	17,884	17,884	12,620	5,075	5,075	12,620	5,075	5,075
31,488	31,488	31,488	31,488	31,488	31,488	31,488	31,488	7,380	16,425	16,425	7,380	16,425	16,425
49,372	49,372	49,372	49,372	49,372	49,372	49,372	49,372	20,000	21,500	21,500	20,000	21,500	21,500
6,171	6,171	6,171	6,171	6,171	6,171	6,171	6,171	10,000	5,375	5,375	10,000	5,375	5,375
8 TIRES	8 TIRES	8 TIRES	8 TIRES	8 TIRES	8 TIRES	8 TIRES	8 TIRES	2 TIRES	4 TIRES	4 TIRES	2 TIRES	4 TIRES	4 TIRES

ELEVATION VIEW 1/3
SCALE: 3/32"=1'-0"



SECTION E/3
SCALE: 1/4"=1'-0"



SECTION G/3
SCALE: 1/4"=1'-0"

(TRANSPORTER NOT SHOWN FOR CLARITY)

* 11" x 17" DRAWING IS A HALF SCALE FORMAT

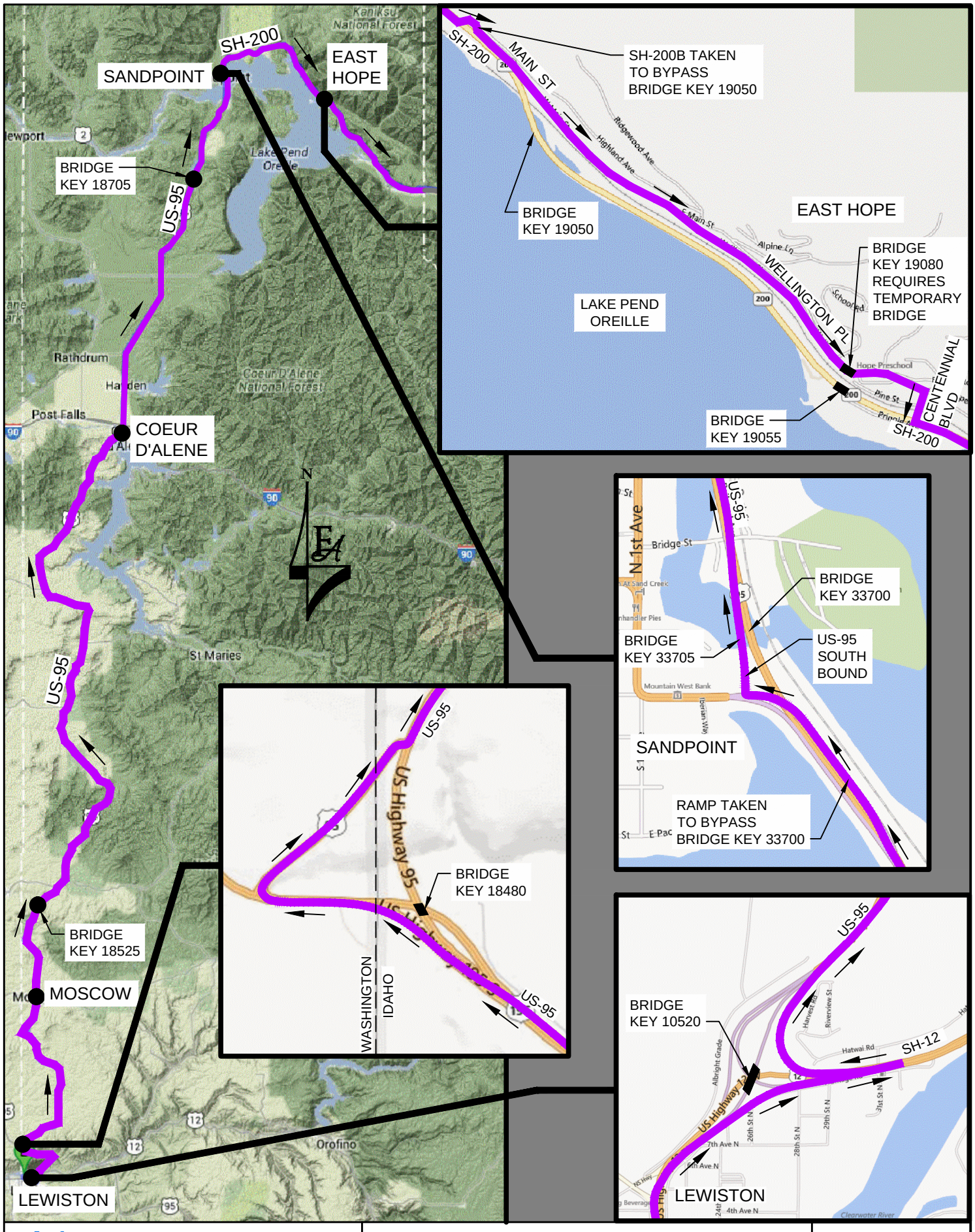
NOTES:
1) ADDITIONAL PULL/PUSH TRACTORS TO BE ADDED AS REQUIRED.

NO.	REVISIONS	DATE	BY	DATE	BY	DATE	BY
1	UPDATED TRANSPORTER & SADDLES	4/29/14	RA				
0	UPDATED RIGGING	3/25/14	RA				
A	PRELIMINARY	7/31/13	DM				
		DRAWN		CHECKED		APPROVED	

BIGGE Established 1916
CRANE and RIGGING CO.

HEAVY HAUL GENERAL ARRANGEMENT SECTION 3 / REACTOR 41–R01 CALUMET REFINERY PROJECT CH2MHILL

SCALE	ENGR. No.	DWG. No.	SHEET	REV.
NOTED	13E30	70	4 of 4	1
JOB NO. 13Q–9199				



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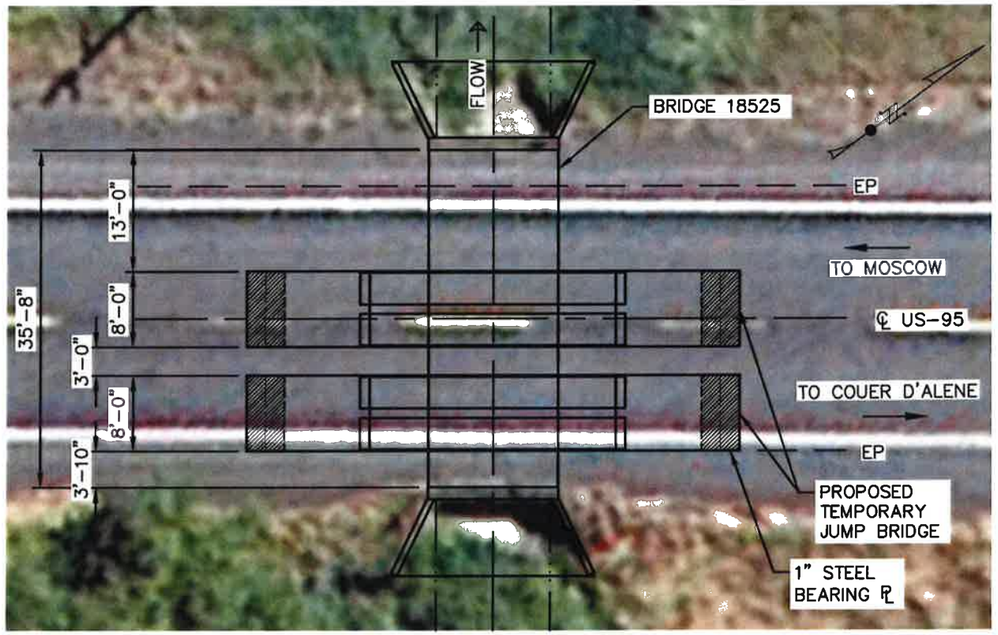
FORSGREN Associates Inc.

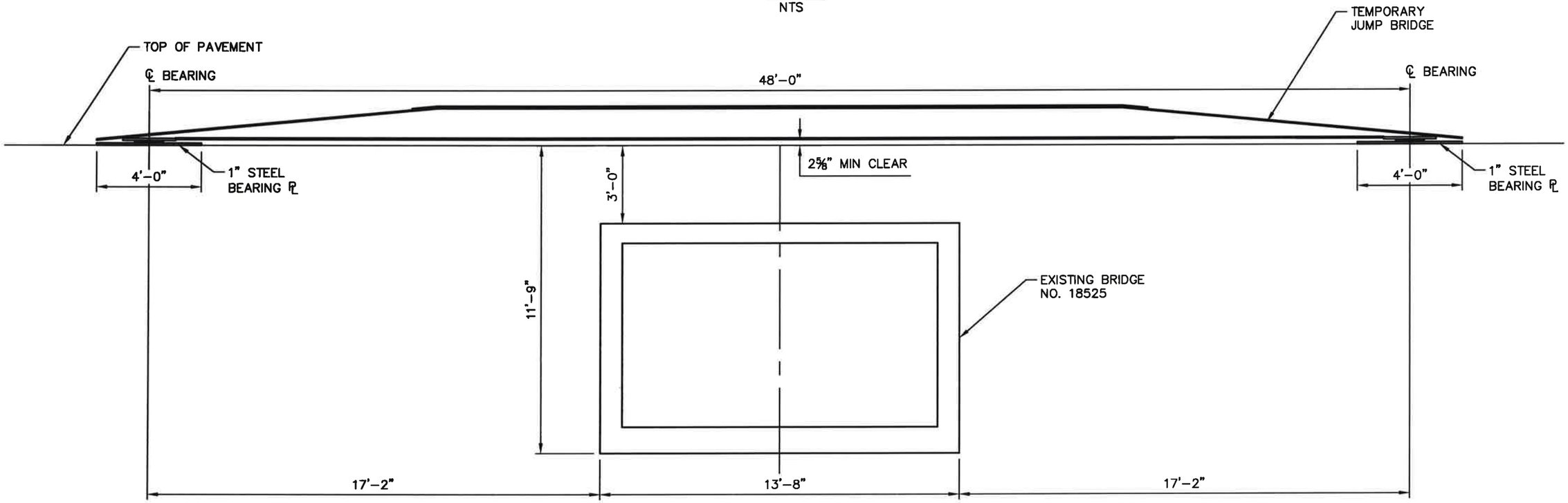
BIGGE (JOB #13Q-9199) REV 1 TRUCK

US-95/SH-200 ROUTE

FIGURE 2



PLAN
NTS



PROFILE
¼"=1'-0"

PROFESSIONAL ENGINEER
REGISTERED
9814
7/29/14
STATE OF IDAHO
JASON WOLFE

PROJECT NO.: 214089

SHEET NO. 1

ITD PERMIT ASSISTANCE - BIGGE CRANE AND RIGGING

BRIDGE KEY 18525, US 95, 11.7 MILES NORTH OF MOSCOW

FORSGREN Associates Inc
415 SOUTH 4TH STREET, BOISE, ID 83702
PH: 208.342.3144 FAX: 208.383.0819

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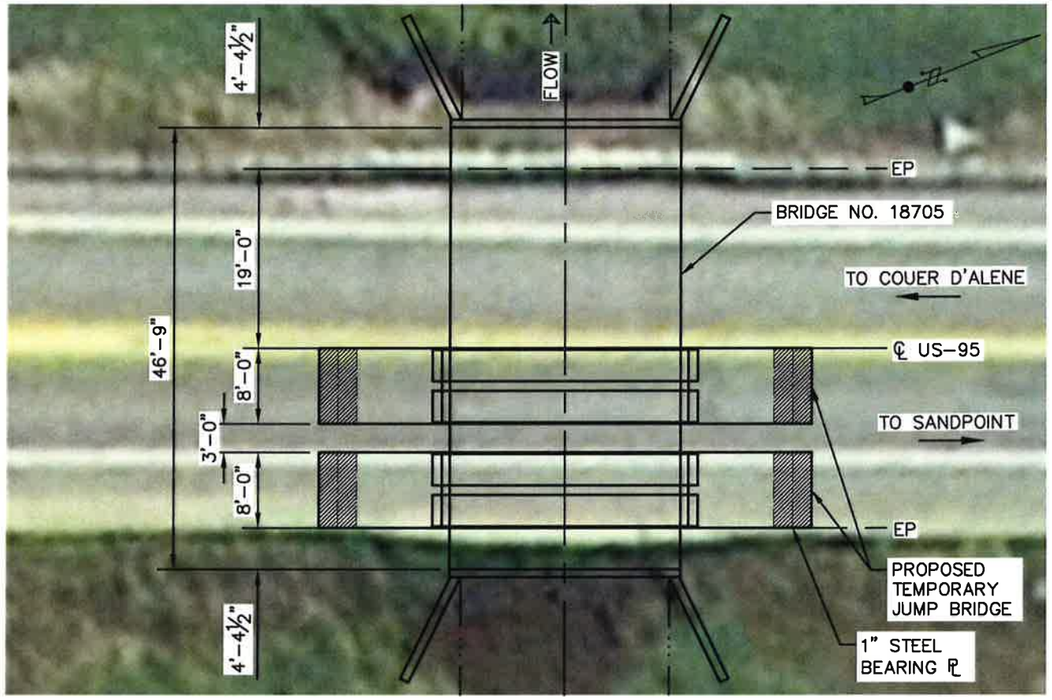
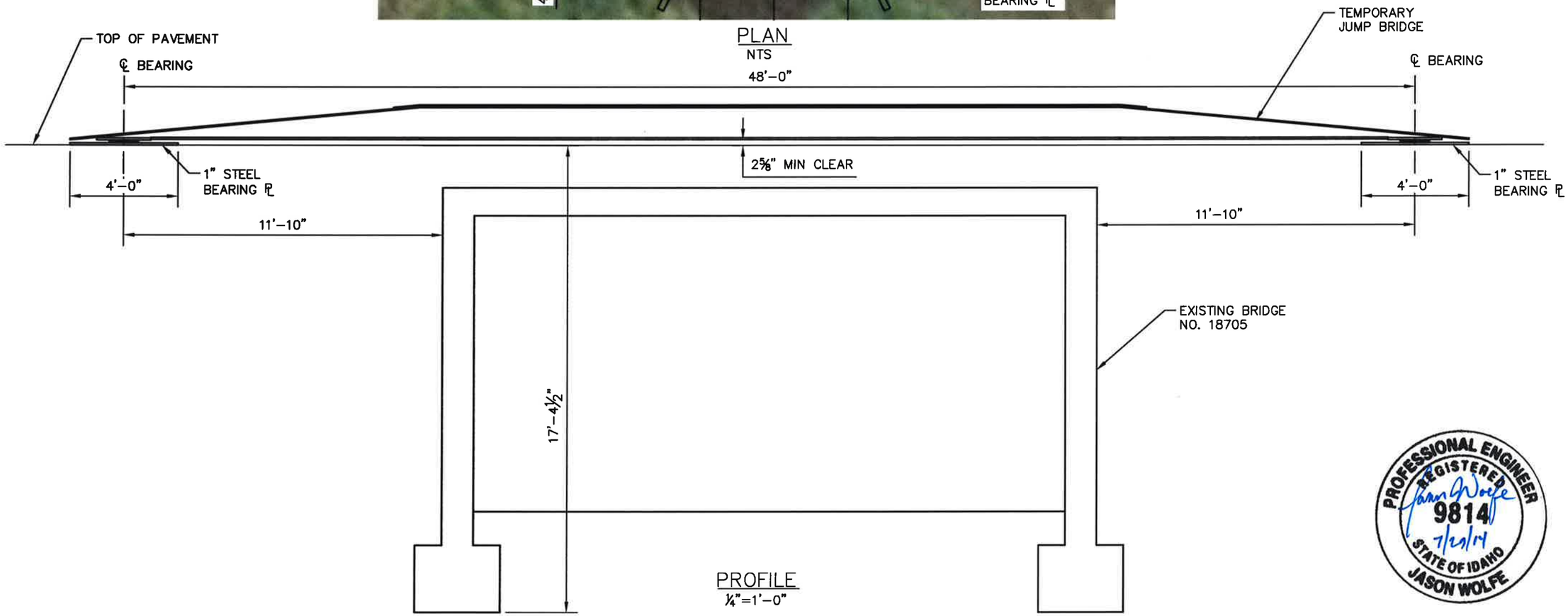


PLAN
NTS



PROFILE
¼"=1'-0"

PROFESSIONAL ENGINEER
REGISTERED
Jason Wolfe
9814
7/29/14
STATE OF IDAHO
JASON WOLFE

PROJECT NO.: 214089

SHEET NO. 1

ITD PERMIT ASSISTANCE - BIGGE CRANE AND RIGGING

BRIDGE KEY 18705, US 95, 0.1 MILE SOUTH OF COCOLALLA

FORSGREN Associates Inc
415 SOUTH 4TH STREET, BOISE, ID 83702
PH: 208.342.3144 FAX: 208.383.0619

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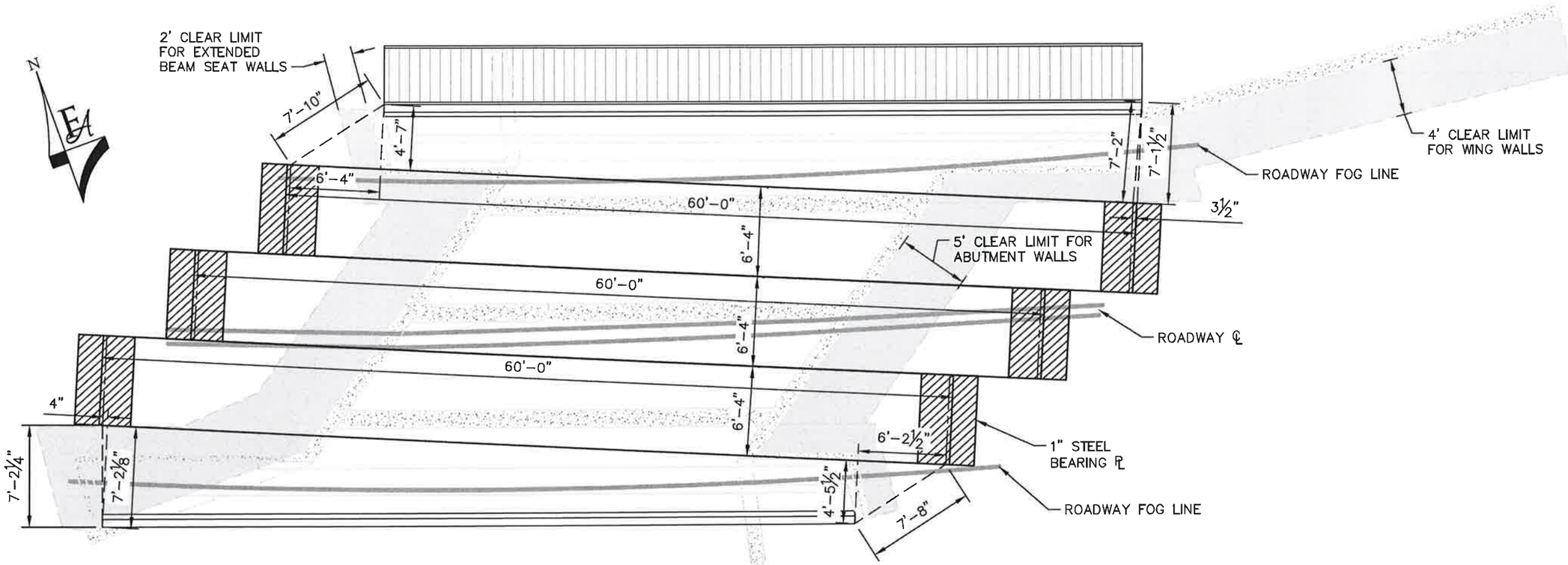
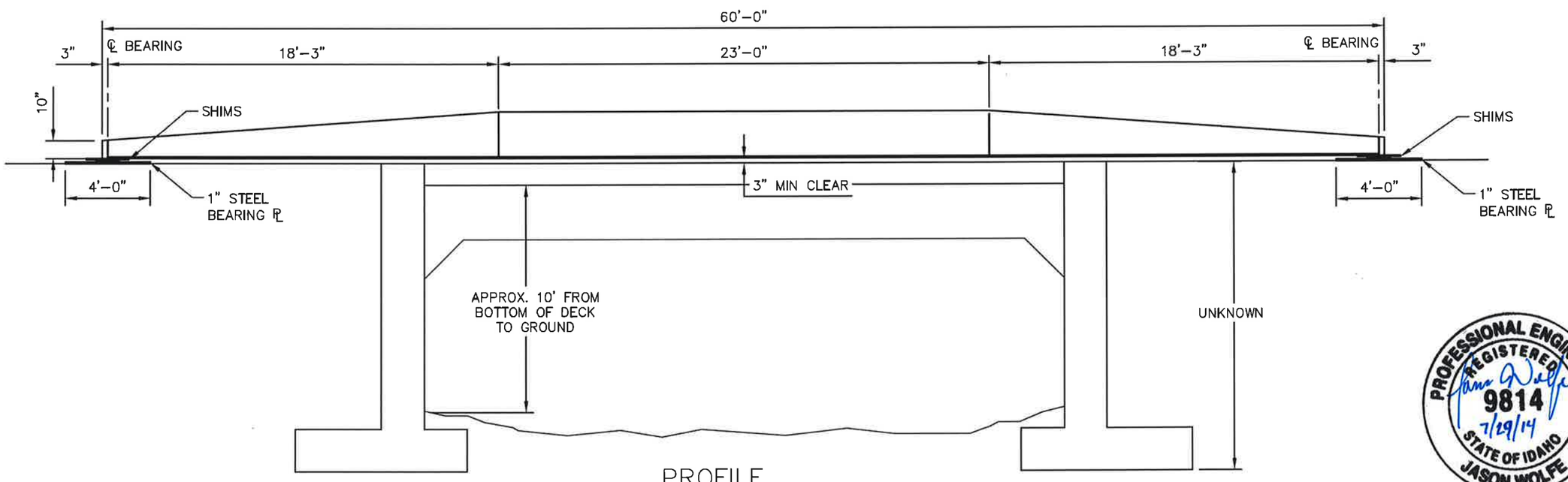


PLAN
⅛"=1'-0"



PROFILE
3/16"=1'-0"

PROFESSIONAL ENGINEER
REGISTERED
Jason Wolfe
9814
7/29/14
STATE OF IDAHO
JASON WOLFE

PROJECT NO.: 214089

SHEET NO.

ITD PERMIT ASSISTANCE - BIGGE

STRONG CREEK JUMP BRIDGE PLAN

FORSGREN Associates Inc
415 SOUTH 4TH STREET, BOISE, ID 83702
PH: 208.342.3144 FAX: 208.383.0819

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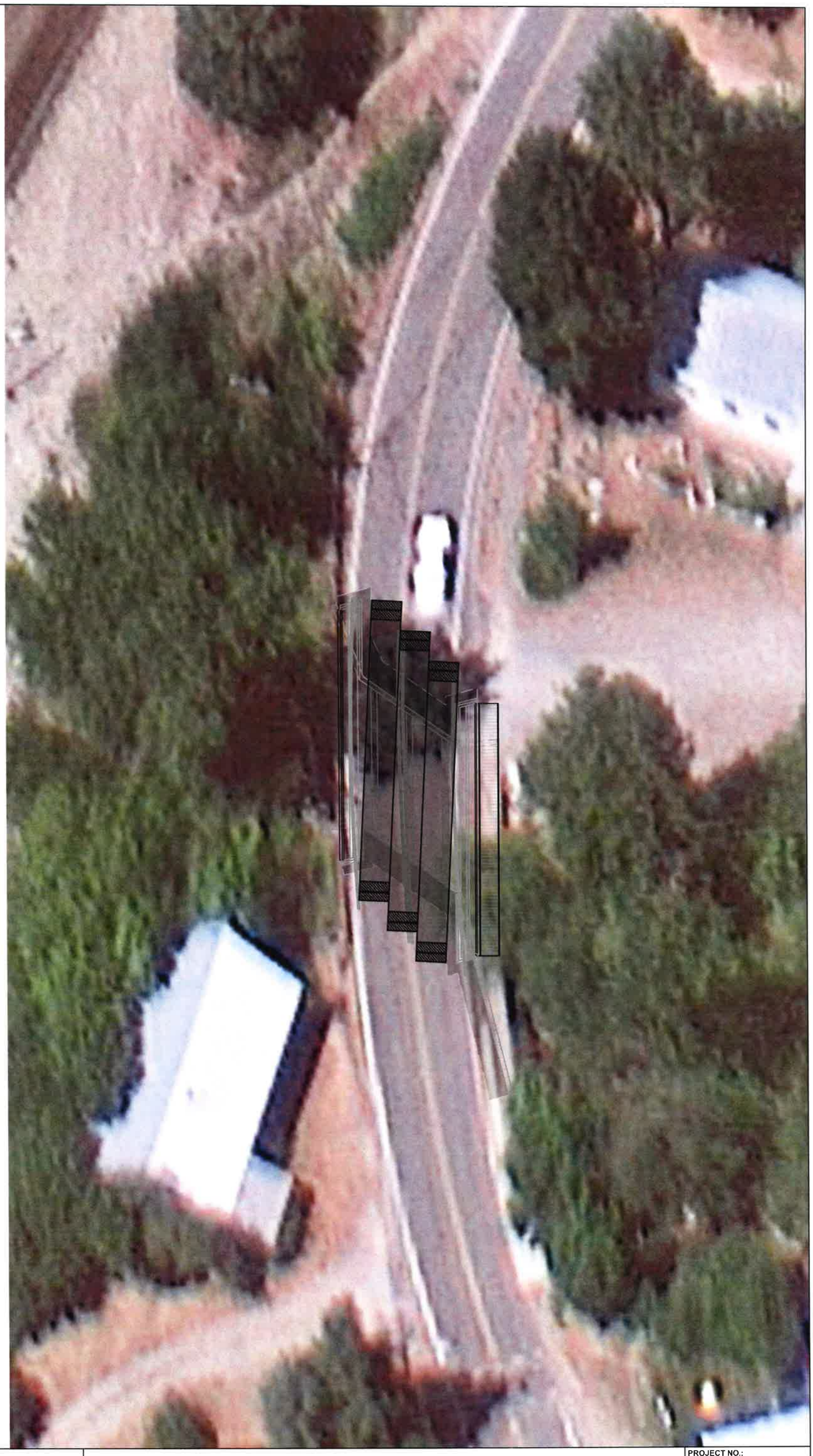

PLAN
1"=20'

PROFESSIONAL ENGINEER
JASON WOLFE
STATE OF IDAHO
9814

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415 SOUTH 4TH STREET, BOISE, ID 83702
PH: 208.342.3144 FAX: 208.383.0819

ITD PERMIT ASSISTANCE - BIGGE

STRONG CREEK JUMP BRIDGE VICINITY

PROJECT NO.: 214089

SHEET NO.