06-12-2020 LETTING ITEM 049

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INDEX OF SHEETS

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

313 (21-HB)BRR ILLINOIS CONTRACT NO. 68F53

- **COVER SHEET**
- GENERAL NOTES & PROJECT SPECIFIC NOTES
- **SUMMARY OF QUANTITIES**
- 4. SCHEDULE OF QUANTITIES

STATE OF ILLINOIS HIGHWAY STANDARDS

701411-09

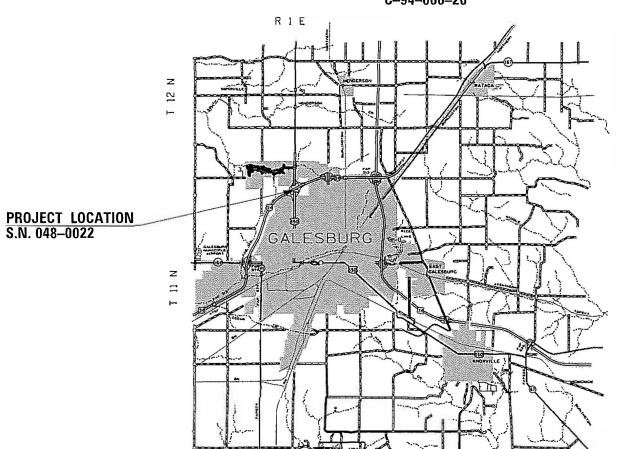
701601-09 701901-08

701101-05

701106-02

- **GENERAL PLAN**
- STRUCTURAL DETAILS

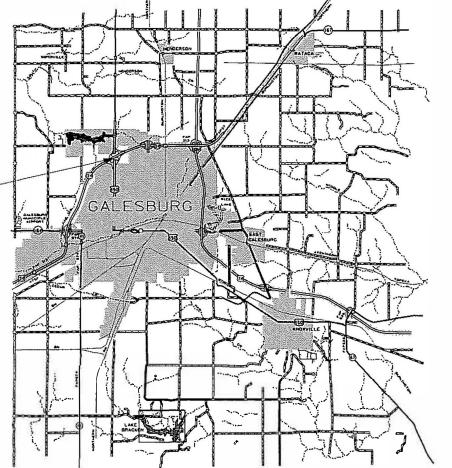
HIGHWAY PLANS



NET LENGTH = 1055 FT. = 0.20 MILE

PROPOSED

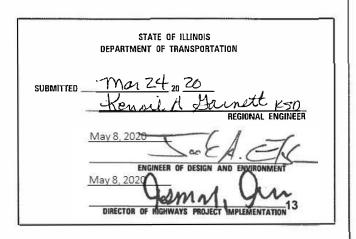
FAP ROUTE 313 (US 34/IL 110) SECTION (21-HB)BRR **CONTRACT MAINTENANCE KNOX COUNTY** C-94-066-20



D-94-043-20



BEAM STRAIGHTENING AND STRENGTHENING ON S.N. 048-0022 CARRYING US 34 OVER US 150 (N. HENDERSON ST) IN GALESBURG



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: NICK JACK

CATALOG NO. 036041-00D

PROJECT MANAGER: JOSH JOCHUMS

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS

1-800-892-0123 OR 811

CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

GENERAL NOTES

PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM

1. All elevations shown on the plans are established from U.S.G.S. mean sea level datum.

CONSECUTIVE SIDE STREET (ROAD) CLOSURE - PROHIBITED

- 1. No two consecutive side streets (roads) may be closed at the same time during construction. The Contractor must alternate streets (roads).
- 2. Adjacent sideroads will not be closed simultaneously. BLR Standard 21 shall be used for all local road closures without any entrances within the closed area. BLR Standard 22 can be used where it is necessary to allow local traffic access.

ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL

The Department reserves the right at any time to add additional Traffic Control Systems or devices within the active contract limits, by means of an additional contract. All terms of Article 105.08 of the Standard Specifications shall be followed by each Contractor.

SIGNING

Sign locations may vary from the stations shown on the plans in accordance with directions from the Engineer at the time of construction. Sign locations may be adjusted in the field to avoid any found utilities.

All wood post locations shall be verified with the Bureau of Operations, Traffic Section, before installation.

PROJECT SPECIFIC NOTES

1. If any bracing or equipment is left in the work area overnight a truck mounted attenuator shall be provided in each lane being utilized at no extra cost to the department.

SHEET

2. One (1) width restriction sign shall be needed on southbound US 150 and one (1) will be needed on the ramp merging onto US 150 adjacent to the work area.

USER NAME = jochumsjg	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 3/20/2020	DATE -	REVISED -	

GEN	IERAL NO	F.A.P RTE	SEC.	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.		
PROJECT SPECIFIC NOTES					13 (21-HB)BRR			KNOX	7	2
PROJECT SPECIFIC NOTES								CONTRACT	NO. 68	3F53
OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

ijonari iv. Jackvosnibesignioorpp-beam palaignteimig 0554 and 05150(microstation)balan

CONSTR. CODE
0013
BRIDGE REHAB

				BRIDGE REHAB
CODE			TOTAL	100% STATE
NO.	ITEM	UNIT	QUANTITY	S.N. 048-0022
INO.			QUANTITI	URBAN
67100100	MOBILIZATION	L SUM	1.0	1.0
70100420	TRAFFIC CONTROL & PROTECTION, STANDARD 701411	EACH	2.0	2.0
70100420	THATTIC CONTROL & TROTLETION, STANDARD TOTATI	EACH	2.0	2.0
70102630	TRAFFIC CONTROL & PROTECTION, STANDARD 701601	L SUM	1.0	1.0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5
Z0001905	STRUCTURAL STEEL REPAIR	POUND	389	389
Z0003600	BEAM STRAIGHTENING	L SUM	1.0	1.0

nni ing moder 1E: S:\GEN\DRAFT\N. Jack\Josh\Design\68F53-Beam Straightening US34 an

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MOBILIZATION								
CODE NUMBER 6710010								
LOCATION	L SUM							
JOBSITE	1.0							
TOTAL	1							

TRAFFIC CONTROL AND PROTECTION, STANDARD 701411								
CODE NUMBER 70100420								
LOCATION	EACH							
ENTRANCE AND EXIT RAMP	2.0							
TOTAL 2								

TRAFFIC CONTROL AND PROTECTION,							
STANDARD 701601							
CODE NUMBER 70102630							
LOCATION	L SUM						
MAINLINE US 150	1.0						
TOTAL 1							

TRAFFIC CONTROL SURVEILLANCE							
CODE NUMBER 70103815							
LOCATION	CAL DA						
JOBSITE	5.0						
TOTAL	5						

MODEL: DRAFTING MODEL FILE NAME: S:GEN/DRAFTIN. Jack/Josh/Deslan/68F53-Beam Straightenin

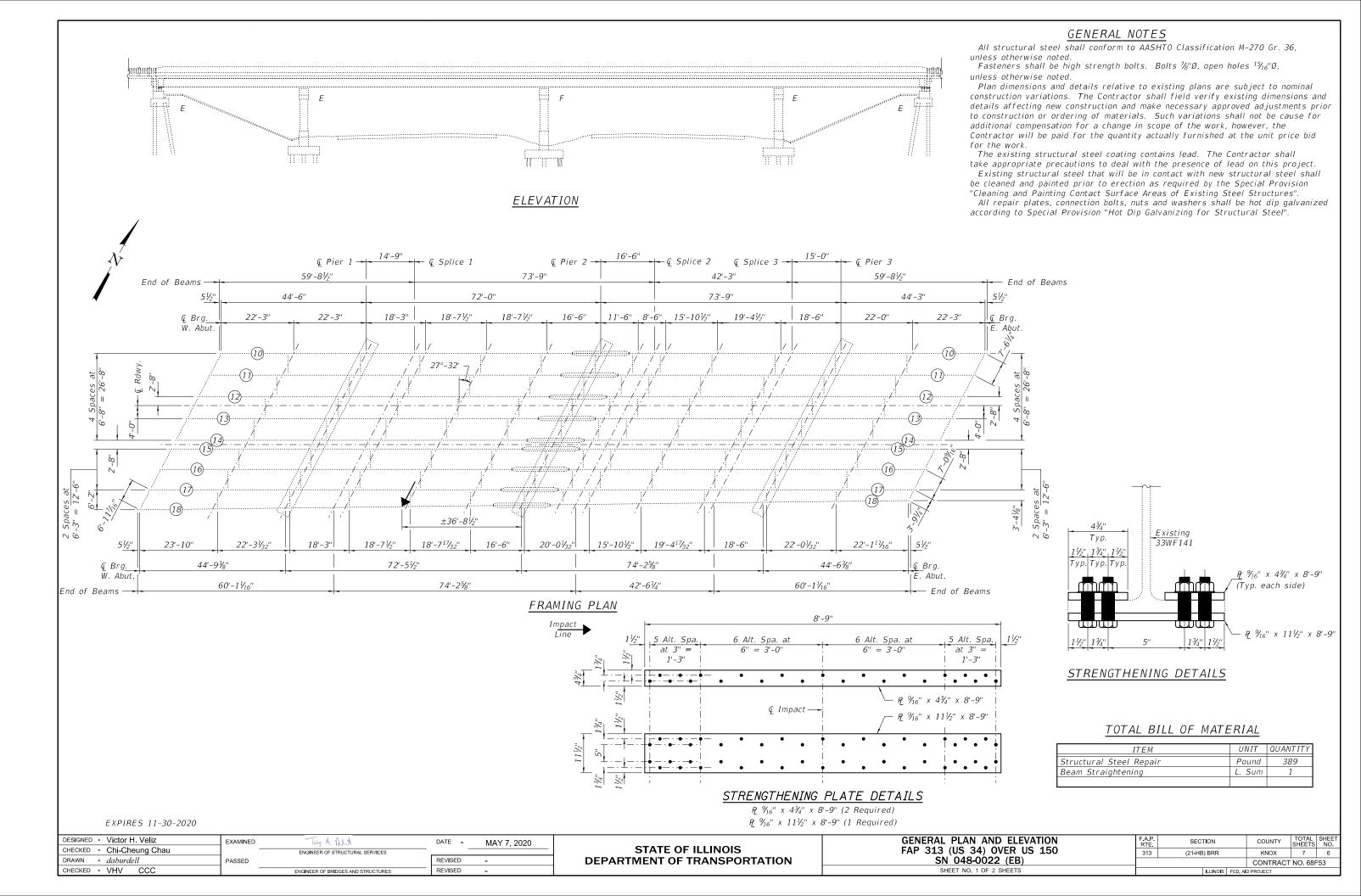
USER NAME = jochumsjg	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 3/20/2020	DATE -	REVISED -

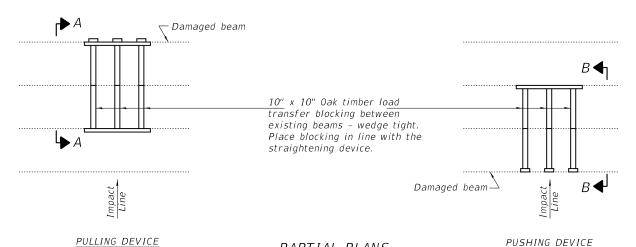
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

						F.A.P RTE.		SEC	ΓΙΟΝ		COUNTY	TOTAL SHEETS			
								313	((21-H	B)BRR		KNOX	7	4
													CONTRACT	NO. 6	3F53
	SHEET	OF	SHEETS	STA.		TO STA.					ILLINOIS	FED. A	ID PROJECT		



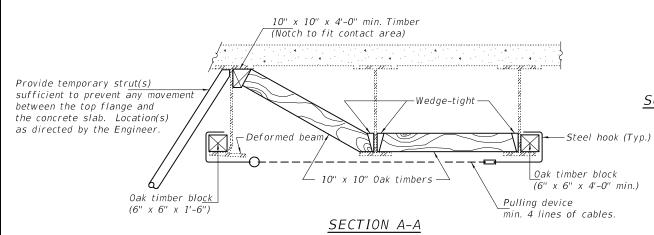


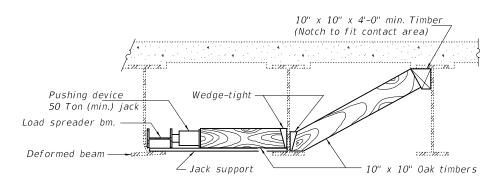


PARTIAL PLANS

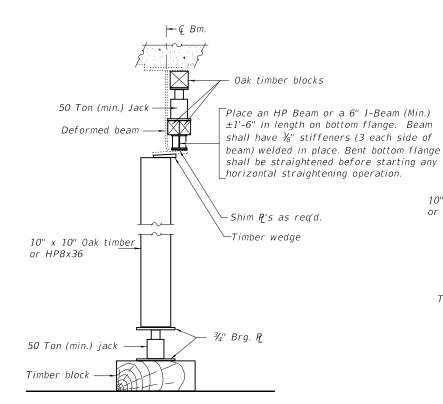
SUGGESTED BEAM STRAIGHTENING METHODS

Straightening force shall be maintained on all load transfer blocking during beam straightening.



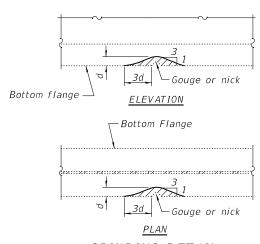


SECTION B-B



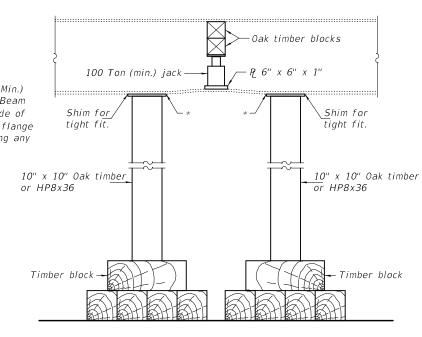
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



GRINDING DETAIL

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using dye penetrant or magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately ¼" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



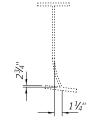
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

* Edge of plate shall line up with edge of deformation.

Note:

Braces and jack assembly shall be placed on same side of web. Bent bottom flange shall be straightened before starting any horizontal straightening operations.



EXISTING DEFORMATION

TO BE STRAIGHTENED

(Looking East)
(Approximate max. deflections)
Deflected length of beam to be
straightened is approximately 8'-0".

DESIGNED - VHV	EXAMINED	I mot A Mallet	DATE -	MAY 7, 2020
CHECKED - CCC		ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	S. Carl Princy	REVISED	=
CHECKED - VHV CCC	1	ENGINEER OF BRIDGES AND STRUCTURES	REVISED	=

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM STRAIGHTENING DETAILS SN 048-0022 (EB)
SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
313	(21-HB) BRR			KNOX	7	7
				CONTRACT NO. 68F53		
ILLINOIS EED AID BROJECT						