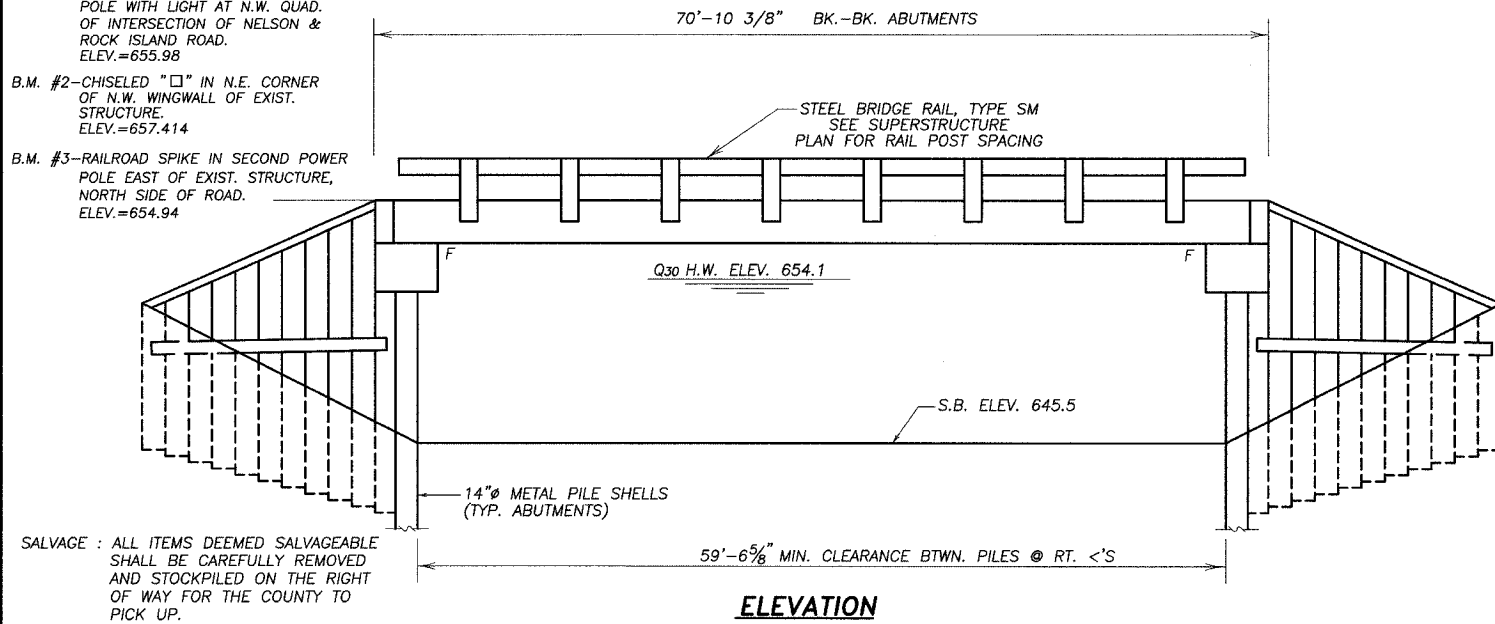


**BENCHMARK INFORMATION**

- B.M. #1—RAILROAD SPIKE IN POWER POLE WITH LIGHT AT N.W. QUAD. OF INTERSECTION OF NELSON & ROCK ISLAND ROAD. ELEV.=655.98
- B.M. #2—CHISELED "□" IN N.E. CORNER OF N.W. WINGWALL OF EXIST. STRUCTURE. ELEV.=657.414
- B.M. #3—RAILROAD SPIKE IN SECOND POWER POLE EAST OF EXIST. STRUCTURE, NORTH SIDE OF ROAD. ELEV.=654.94

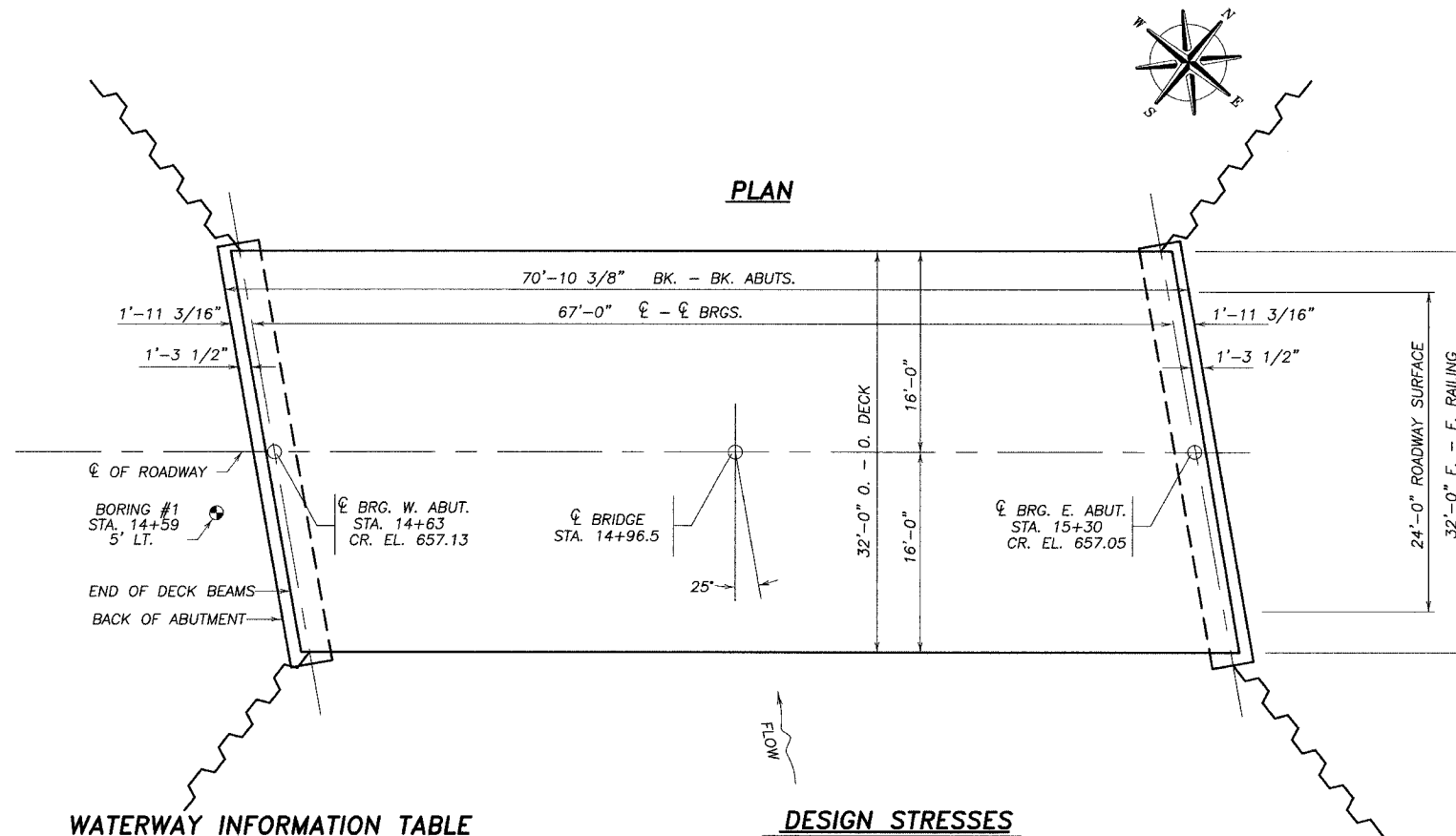
**GENERAL NOTES**

- COMPLETE PLANS FOR THE EXISTING STRUCTURE ARE AVAILABLE FROM THE LEE COUNTY HIGHWAY OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE PLANS PRIOR TO CONSTRUCTION TO FAMILIARIZE HIMSELF WITH DETAILS OF THE EXISTING STRUCTURE.
- FOR UTILITY INFORMATION, CALL J.U.L.I.E. 800-892-0123
- SEE PROPOSAL BOOKLET FOR BORING DATA. SURFACE AT B1 EL.= 657.1 SURFACE AT B2 EL.= 657.0
- ALL EXPOSED PORTIONS OF THE STRUCTURAL STEEL & SHEET PILING SHALL BE PAINTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 506 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. COLOR SHALL BE REDDISH BROWN.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.
- THE TOP SURFACE OF THE BEAMS SHALL BE FINISHED ACCORDING TO ARTICLE 504.06 OF THE STANDARD SPECIFICATION. THE SURFACE SHALL BE ROUGHENED BY BROOMING. THE FINISHED SURFACE SHALL BE FREE OF DEPRESSIONS OR HIGH SPOTS WITH ROUGH CORNERS, AND THE TOP EDGE OF KEYS SHALL BE ROUNDED OR CHAMFERED A MINIMUM OF 1/4".
- REMOVAL OF EXISTING STRUCTURES INCLUDE THE COMPLETE REMOVAL AND SATISFACTORY DISPOSAL OF THE EXISTING STRUCTURE INCLUDING PIER TO AN ELEVATION 2' BELOW THE EXISTING STREAMBED ELEVATION AND THE COMPLETE REMOVAL OF THE ABUTMENTS TO AN ELEVATION 2' BELOW THE PROPOSED GRADE. ANY PORTION OF THE PIER OR PIER FOOTING AND ABUTMENT OR ABUTMENT FOOTING THAT INTERFERES WITH THE PLACEMENT OF THE PROPOSED PIER AND ABUTMENT PILING SHALL ALSO BE COMPLETELY REMOVED.
- REMOVAL OF EXISTING STRUCTURES SHALL BE ACCOMPLISHED BY ANY METHOD THE CONTRACTOR ELECTS TO USE BUT MUST CONFORM TO ALL REQUIREMENTS OF THE U.S. ARMY CORPS OF ENGINEERS PERMIT CONDITIONS ALONG WITH ANY OTHER AGENCY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL CONCRETE AND DEBRIS THAT FALLS INTO THE RIVER AS A RESULT OF ANY CONSTRUCTION OPERATION.
- PROTECTIVE COAT HAS BEEN INCLUDED FOR THE NORTH AND SOUTH EDGES OF THE DECK.
- THE CONTRACTOR SHALL DRIVE ONE METAL PILE SHELL - 14"Ø TEST PILE IN A PERMANENT LOCATION AT THE EAST ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.



SALVAGE : ALL ITEMS DEEMED SALVAGEABLE SHALL BE CAREFULLY REMOVED AND STOCKPILED ON THE RIGHT OF WAY FOR THE COUNTY TO PICK UP.

**ELEVATION**



**PLAN**

**BILL OF MATERIAL**

**BRIDGE**

ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
CONCRETE STRUCTURES	CU. YD.		28.8	28.8
FURN. AND ERECTING STRUCTURAL STEEL	LBS.		4041	4041
PRECAST PRESTRESSED CONCRETE DECK BEAMS - 27"	SQ. FT.	2186		2186
REINFORCEMENT BARS, EPOXY COATED	POUND		3000	3000
PROTECTIVE COAT	SQ. YD.	34		34
NAME PLATES	EACH	1		1
STEEL BRIDGE RAIL, TYPE SM	FOOT	138		138
FURNISHING METAL PILE SHELLS - 14"Ø	FOOT		506	506
DRIVING AND FILLING SHELLS	FOOT		506	506
TEST PILE, METAL PILE SHELL - 14"Ø	EACH		1	1
STEEL SHEET PILING	SQ. FT.		2408	2408
HARDWARE	POUND		1594	1594
WATERPROOFING MEMBRANE SYSTEM	SQ. YD.	252		252
BITUMINOUS MIXTURE COMPLETE	TON	37		37
PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	478		478

**WATERWAY INFORMATION TABLE**

DRAINAGE AREA= 34.7 SQ.MI. LOW GRADE ELEV. 656.8 AT STA. 10+00

FLOOD YR.	FREQ.	Q. C.F.S.	OPENING SQ. FT.		NAT. H.W.E.	HEAD-FT.		HEADWATER EL.	
			EXIST.	PROP.		EXIST.	PROP.	EXIST.	PROP.
DESIGN	30	3260	348	526	653.1	3.3	1.0	656.4	654.1
BASE	100	4190	348	526**	653.4	4.9	4.7	658.3	658.1
MAX. CALC.	500	5340			656.1	3.7	3.0	659.8	659.1
OVERTOPPING									

**DESIGN STRESSES**

<b>FIELD UNITS</b>	<b>PRESTRESSED UNITS</b>
f'c = 3500 P.S.I.	f'c = 5000 P.S.I.
f'y = 60,000 P.S.I. (REINFORCEMENT)	f'ci = 4200 P.S.I.
f'y = 36,000 P.S.I. (STRUCTURAL STEEL)	f's = 270,000 P.S.I.
	f'si = 189,000 P.S.I.

THREE MILE BRANCH  
BUILT 2004 BY  
LEE COUNTY  
SECTION 01-00278-00-BR  
STATION 14+96.5  
STR. NO. 052-3332 LOADING HS 20-44

**LETTERING FOR NAME PLATE**

SEE STD. 515001

**LOADING HS 20-44**  
ALLOWED 25 psf FOR FUTURE WEARING SURFACE  
**DESIGN SPECIFICATIONS**  
A.A.S.H.T.O. 2002 SPECIFICATIONS

**DESIGN DATA**  
A.D.T. 3050 (CURRENT)  
3600 (20 YEAR)  
DESIGN SPEED 50 MPH



I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".

**GENERAL PLAN & ELEVATION**  
**SECTION 01-00278-00-BR**  
**COUNTY HIGHWAY 16 (F.A.S. 186)**  
**LEE COUNTY**  
**S.N. 052-3332**

\* AN ADDITIONAL 1200 SQ. FT. OF OVER THE ROAD FLOW FOR THE 100-YEAR EVENT OCCURS WITH EXISTING CONDITIONS.  
\*\* AN ADDITIONAL 1000 SQ. FT. OF OVER THE ROAD FLOW FOR THE 100-YEAR EVENT OCCURS WITH PROPOSED CONDITIONS.