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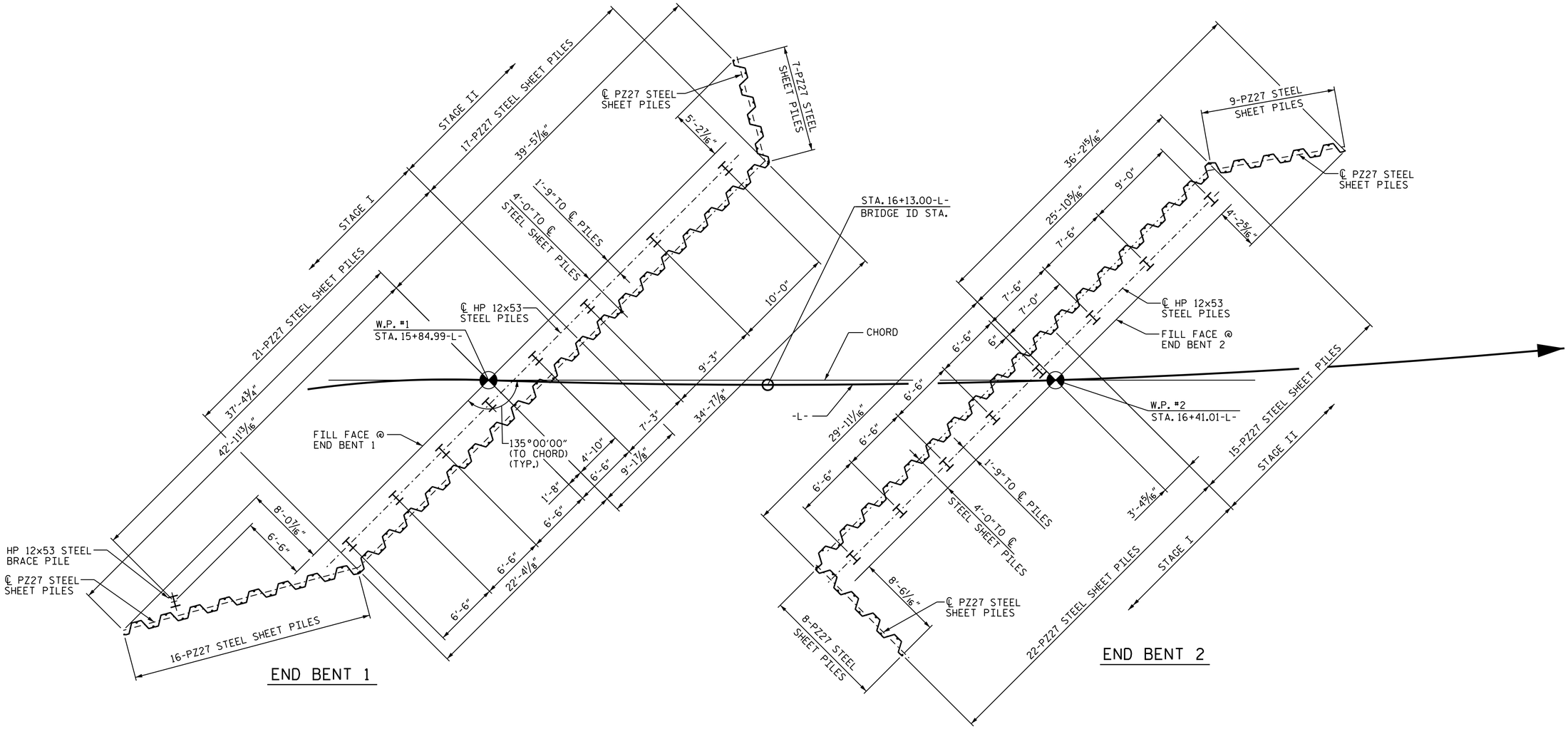

FOUNDATION LAYOUT

DIMENSIONS LOCATING PILES ARS SHOWN TO THE CENTERLINE PILE.

FOUNDATION RECOMMENDATION NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENT No. 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 60 TONS PER PILE.

DRIVE PILES AT END BENT No. 1 TO A REQUIRED DRIVING RESISTANCE OF 100 TONS PER PILE.

DRILLED-IN PILES ARE REQUIRED FOR END BENT NO. 1. EXCAVATE HOLES AT PILE LOCATIONS TO ELEVATION 1991.3 FT. OR A MINIMUM OF 5 FT. INTO ROCK. FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENT No. 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 60 TONS PER PILE.

DRIVE PILES AT END BENT No. 2 TO A REQUIRED DRIVING RESISTANCE OF 100 TONS PER PILE.

DRILLED-IN PILES ARE REQUIRED FOR END BENT 2. EXCAVATE HOLES AT PILE LOCATIONS TO ELEVATION 1993.2 FT. OR A MINIMUM OF 5 FT. INTO ROCK. FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

CONCRETE IS REQUIRED TO FILL HOLES FOR PILE EXCAVATION AT END BENT NO. 1 AND END BENT NO. 2.

PZ27 STEEL SHEET PILES ARE TO BE DRIVEN IN FRONT (STREAM SIDE) OF HP 12x53 STEEL PILES AT EACH END BENT AS SHOWN. SOME EXCAVATION MAY BE REQUIRED DUE TO BOULDERS.

SHEET PILES SHOULD BE DRIVEN TO REFUSAL AND AT MINIMUM ELEVATION OF 1996.3 FT. FOR END BENT No. 1 AND AT 1998.2 FT. FOR END BENT No. 2.

IF REFUSAL IS ENCOUNTERED ABOVE THE MINIMUM ELEVATIONS SPECIFIED, THE RESIDENT ENGINEER WILL NEED TO CONTACT THE GEOTECHNICAL OPERATIONS PERSON TO REVIEW AND MAKE RECOMMENDATIONS.

THE SCOUR CRITICAL ELEVATION FOR THE SHEET PILES AT END BENT No. 1 IS 1996 FT. AND END BENT No. 2 IS 1998 FT. RESPECTIVELY. SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

PROJECT NO. 17BP.14.R.211

MACON COUNTY

STATION: 16+13.00-L-

SHEET 2 OF 4

DRAWN BY :	NMW	DATE :	2/19
CHECKED BY :	MGC	DATE :	8/19
DESIGN ENGINEER OF RECORD :	MGC	DATE :	8/19

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL G. CHEEK, JR.

DocuSigned by: Marshall G. Cheek, Jr. 5FBCC2F3A4DC413...

2/22/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE OVER
TELLICO CREEK
ON SR 1369
BETWEEN SR 1368 AND SR 1367

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			43