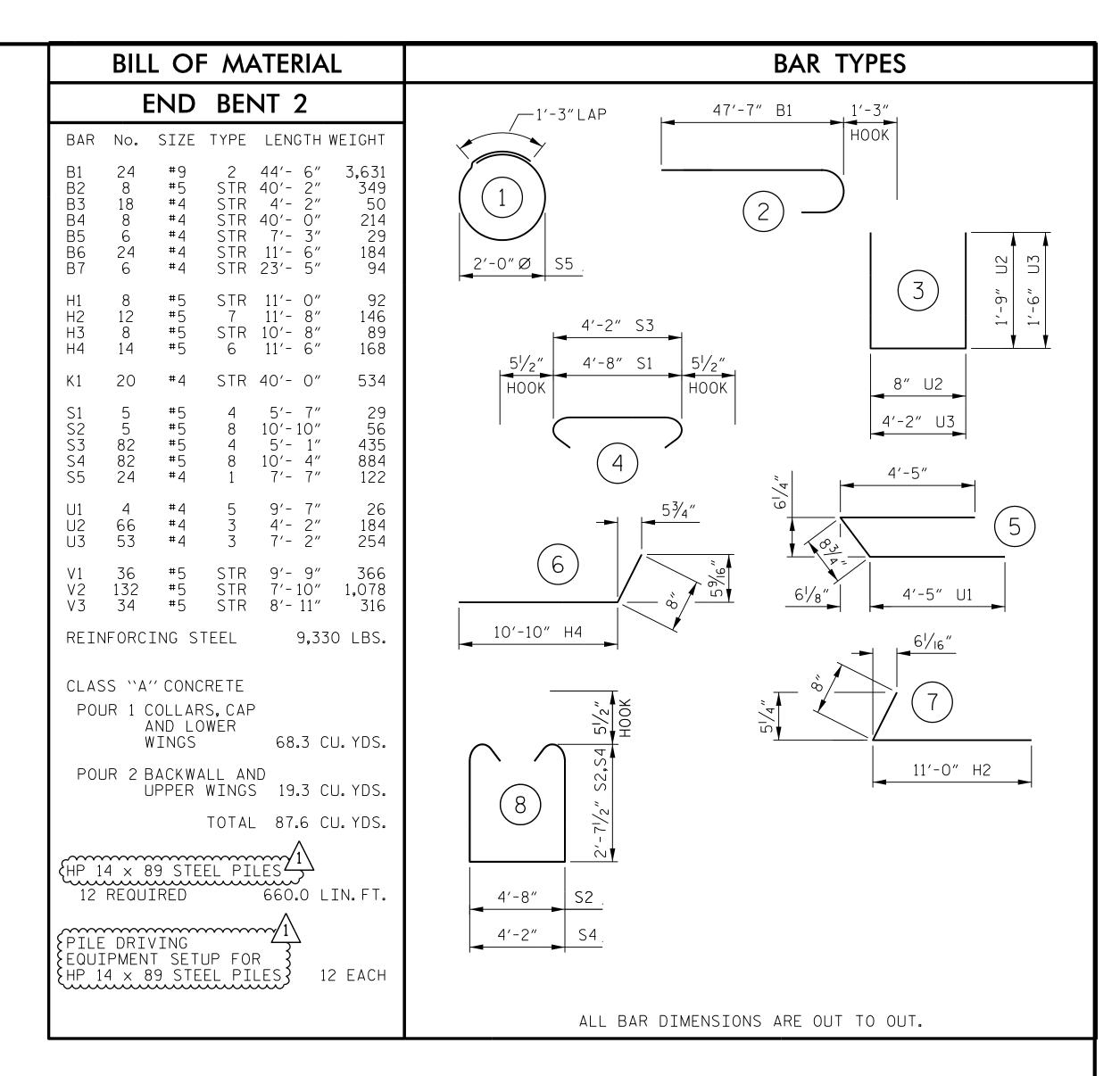


## END BENT TIEBACK FORCE

| COMPONENT           |      | "P" (K /FT.) | "Y" (FT.) |
|---------------------|------|--------------|-----------|
| WIND ON STRUCTURE   | (WS) | 0.11         | 3.514     |
| WIND ON LIVE LOAD   | (WL) | 0.05         | 3.514     |
| BRAKING FORCE       | (BR) | 0.33         | 3.514     |
| THERMAL FORCE       | (TU) | 0.16         | 3.514     |
| EARTH FORCE         | (EH) | 1.28         | 2.684     |
| LIVE LOAD SURCHARGE | (LS) | 1.27         | 4.025     |

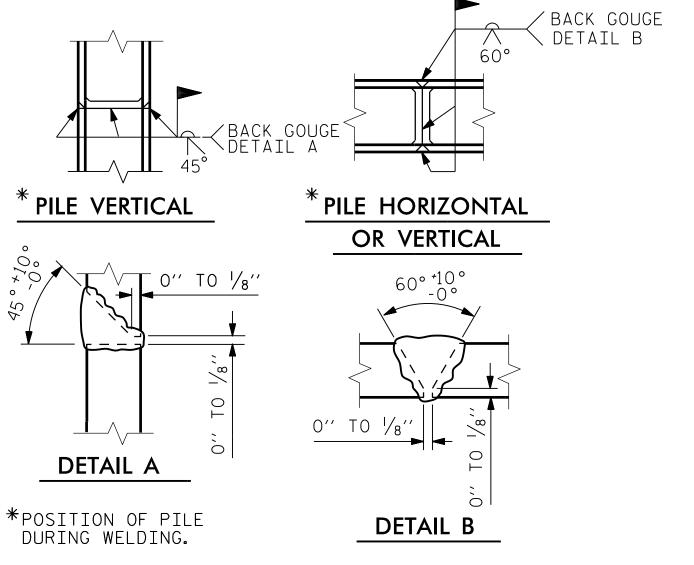
NOTE:

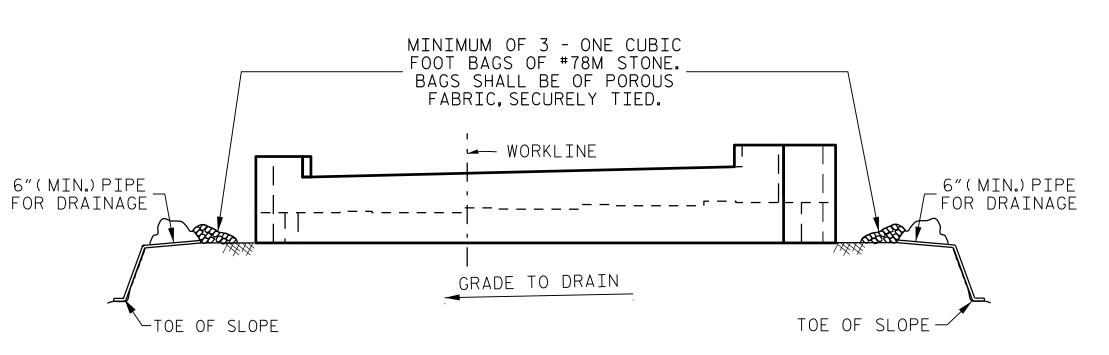
"P" IS UNFACTORED SERVICE LOAD NORMAL TO FILL FACE.





PILE SPLICE DETAILS





BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE FOR THE SEVERAL PAY ITEMS.

## TEMPORARY DRAINAGE AT END BENT

/1\ REVISED PILE SIZE.

DRAWN BY: M. CLAREY / T. DETMERS DATE: 7-17 CHECKED BY : \_\_\_\_\_ D. PRETORIUS DATE : \_\_\_\_\_\_\_ DESIGN ENGINEER : D. PRETORIUS DATE : 7-17

PLANS PREPARED BY **PARSONS** 5540 Centerview Drive, Suite 217 Raleigh, NC 27606–3386 NC LICENSE No. F–0246 OR NORTH CAROLINA DEPARTMENT OF TRANSPORTAT

I-4729A PROJECT NO. **POLK** COUNTY 21+44.22 -RP F-STATION:

SHEET 3 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

> SUBSTRUCTURE END BENT 2



DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

| SHEET<br>S2- | REVISIONS |     |     |       |     |  |
|--------------|-----------|-----|-----|-------|-----|--|
|              | DATE:     | BY: | No. | DATE: | BY: |  |
|              |           |     |     |       |     |  |

EET No. 2–27.1 1 LOFTON 8–25–17

8/25/2017