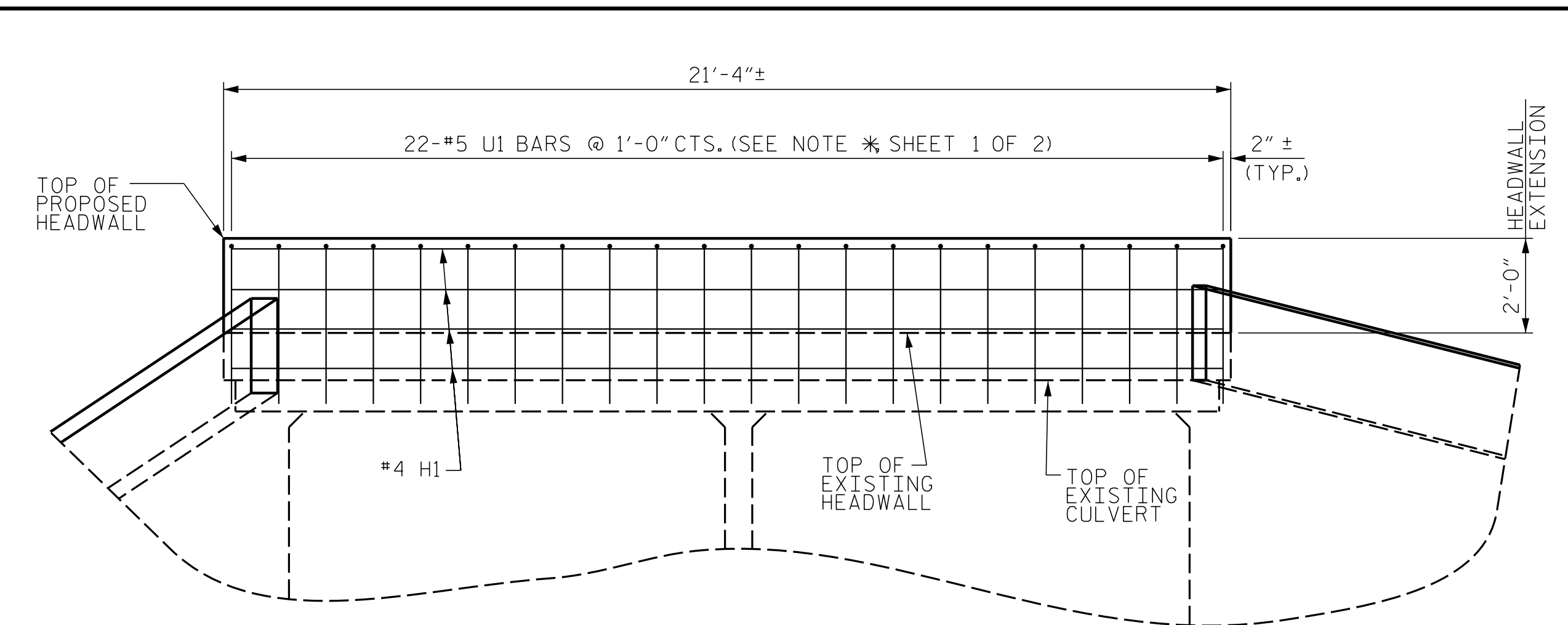


**PARTIAL CULVERT SECTION NORMAL TO ROADWAY**  
 REINFORCEMENT FOR WING EXTENSION NOT SHOWN FOR CLARITY



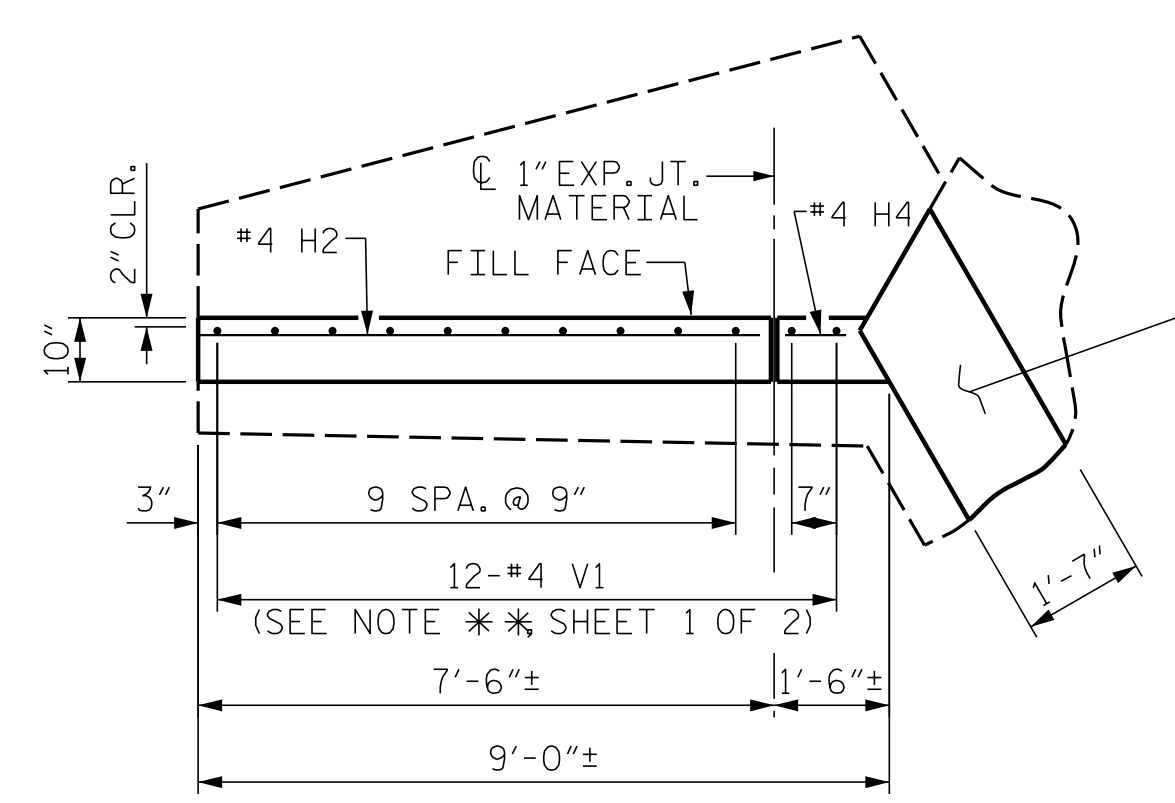
**HEADWALL ELEVATION NORMAL TO SKEW**  
 (TYP. EA. HEADWALL)  
 REINFORCEMENT FOR WING EXTENSION NOT SHOWN FOR CLARITY

| BILL OF MATERIAL  |     |      |      |        |        |      |
|-------------------|-----|------|------|--------|--------|------|
| BAR               | NO. | SIZE | TYPE | LENGTH | WEIGHT |      |
| H1                | 14  | #4   | STR. | 21'-0" | 196    |      |
| H2                | 6   | #4   | STR. | 7'-8"  | 31     |      |
| H3                | 6   | #4   | STR. | 14'-2" | 57     |      |
| H4                | 12  | #4   | STR. | 9"     | 6      |      |
| U1                | 44  | #5   |      | 6'-1"  | 279    |      |
| V1                | 66  | #4   | STR. | 2'-10" | 125    |      |
| REINFORCING STEEL |     |      |      |        | 694    | LBS. |
| CLASS A CONCRETE  |     |      |      |        |        |      |
| 4 WINGS           |     |      |      |        | 3.2    | CY   |
| 2 HEADWALLS       |     |      |      |        | 5.6    | CY   |
| TOTAL             |     |      |      |        | 8.8    | CY   |

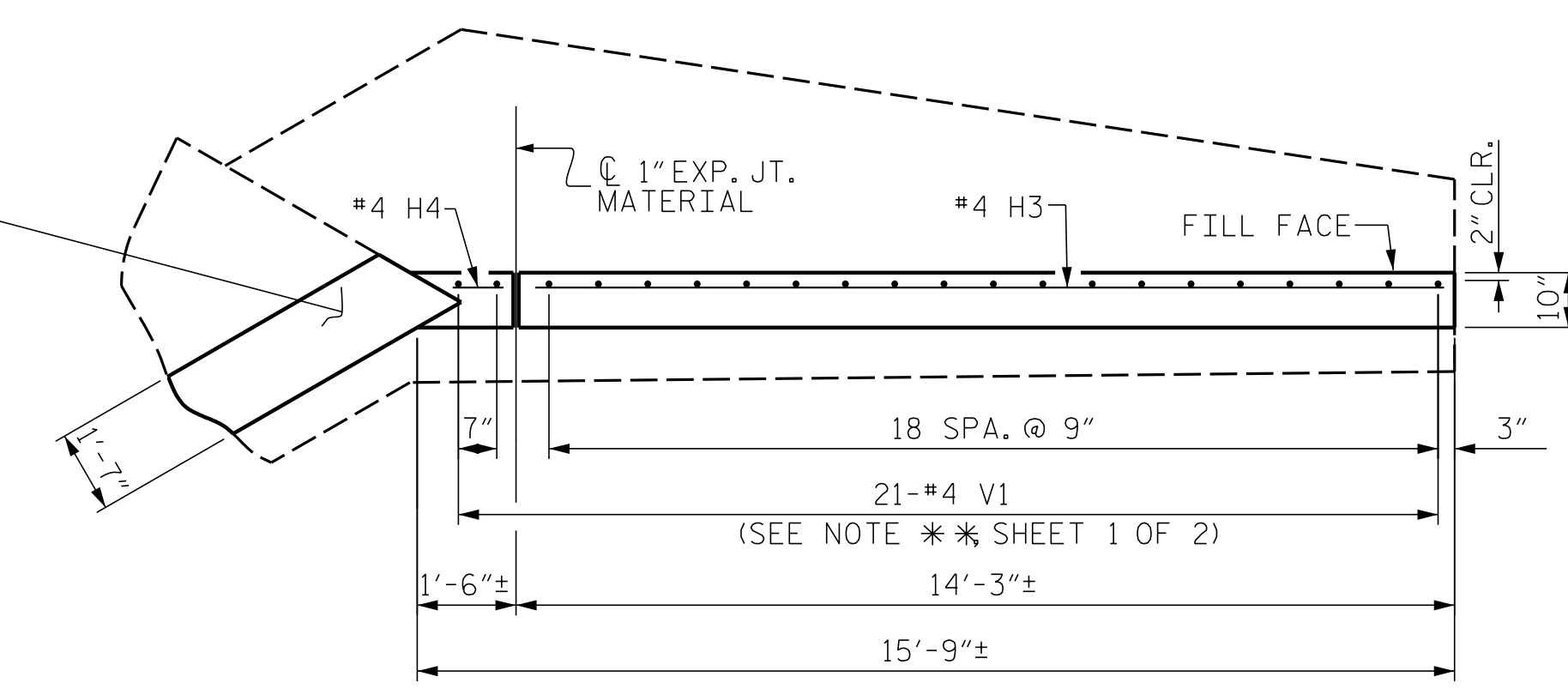
  

| BAR TYPES |   |
|-----------|---|
|           | 1 |

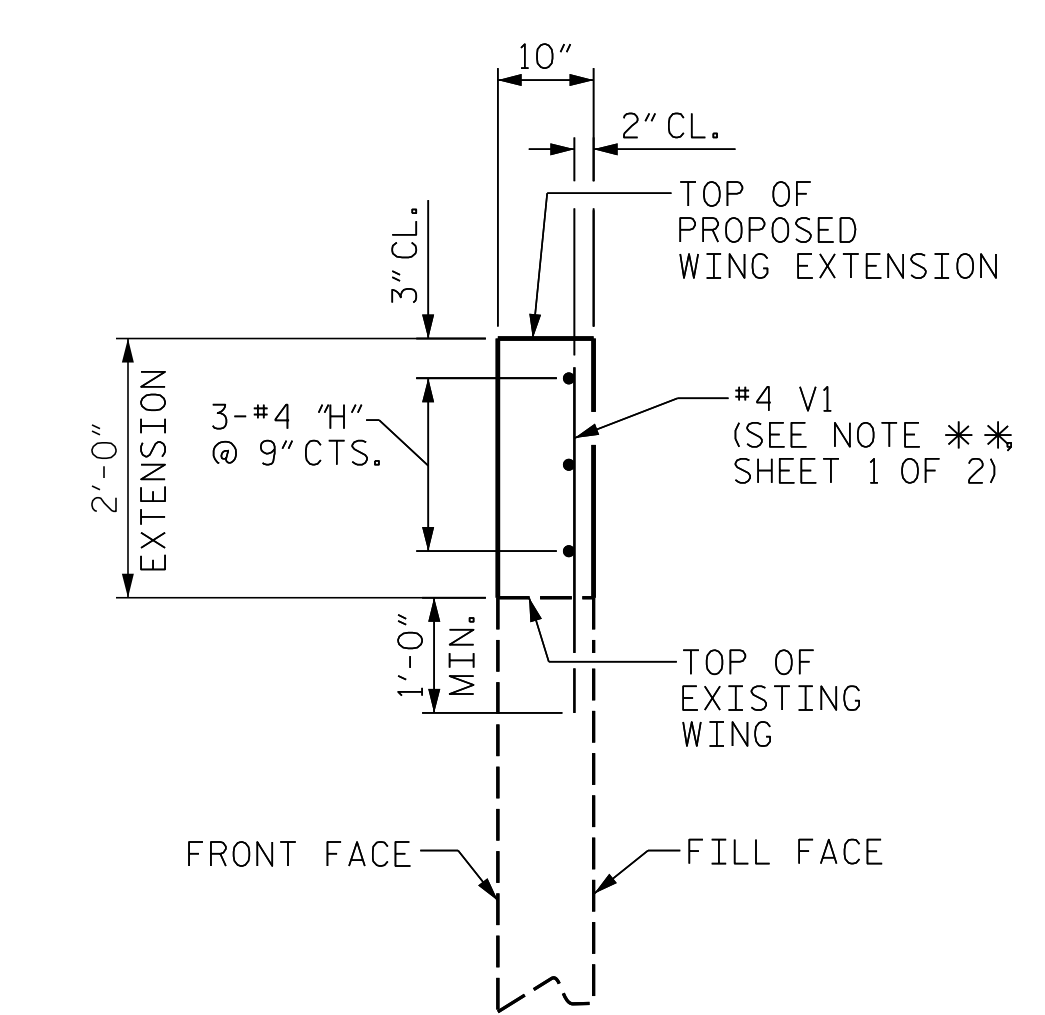
ALL BAR DIMENSIONS ARE OUT TO OUT.



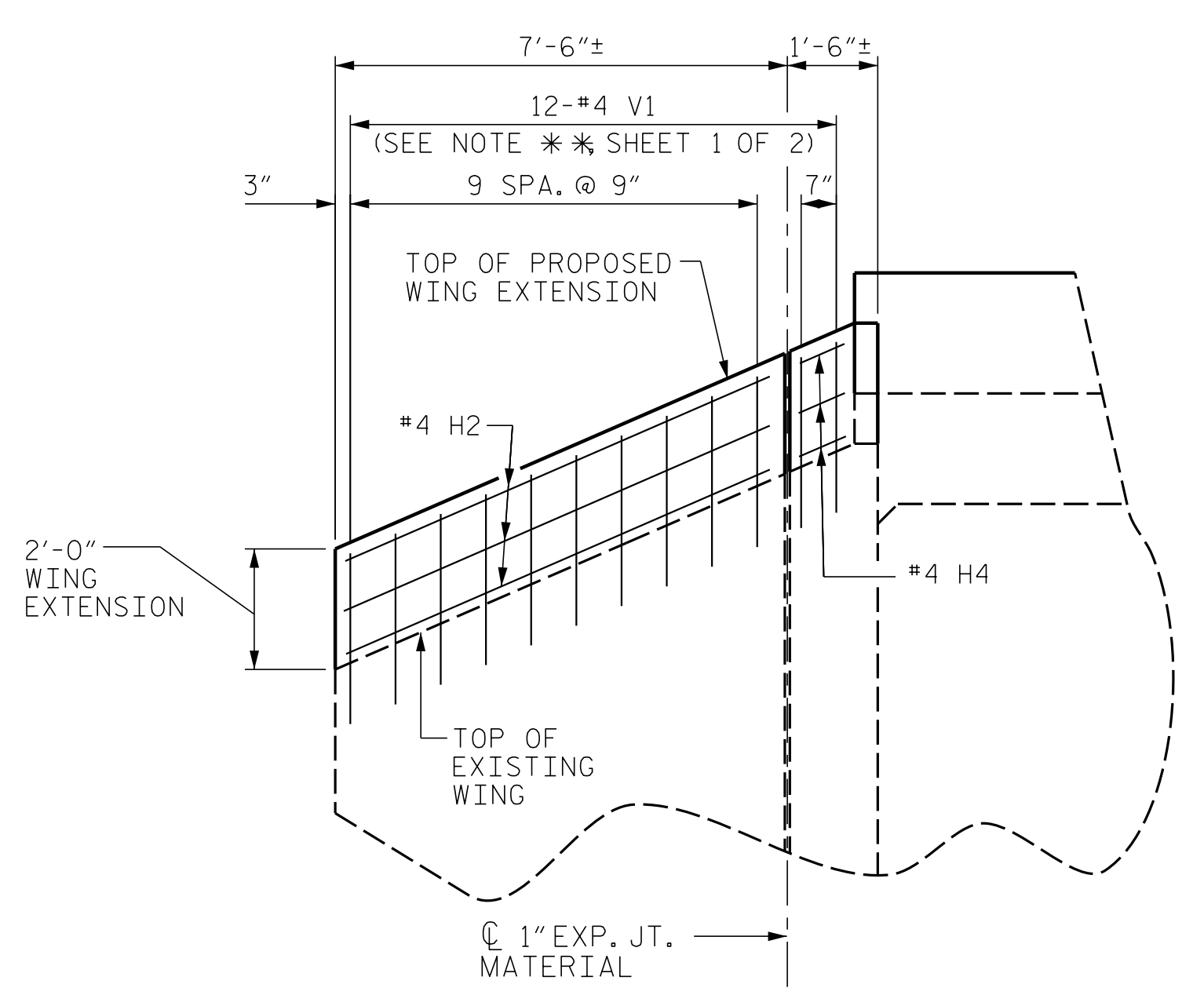
**PLAN W1**



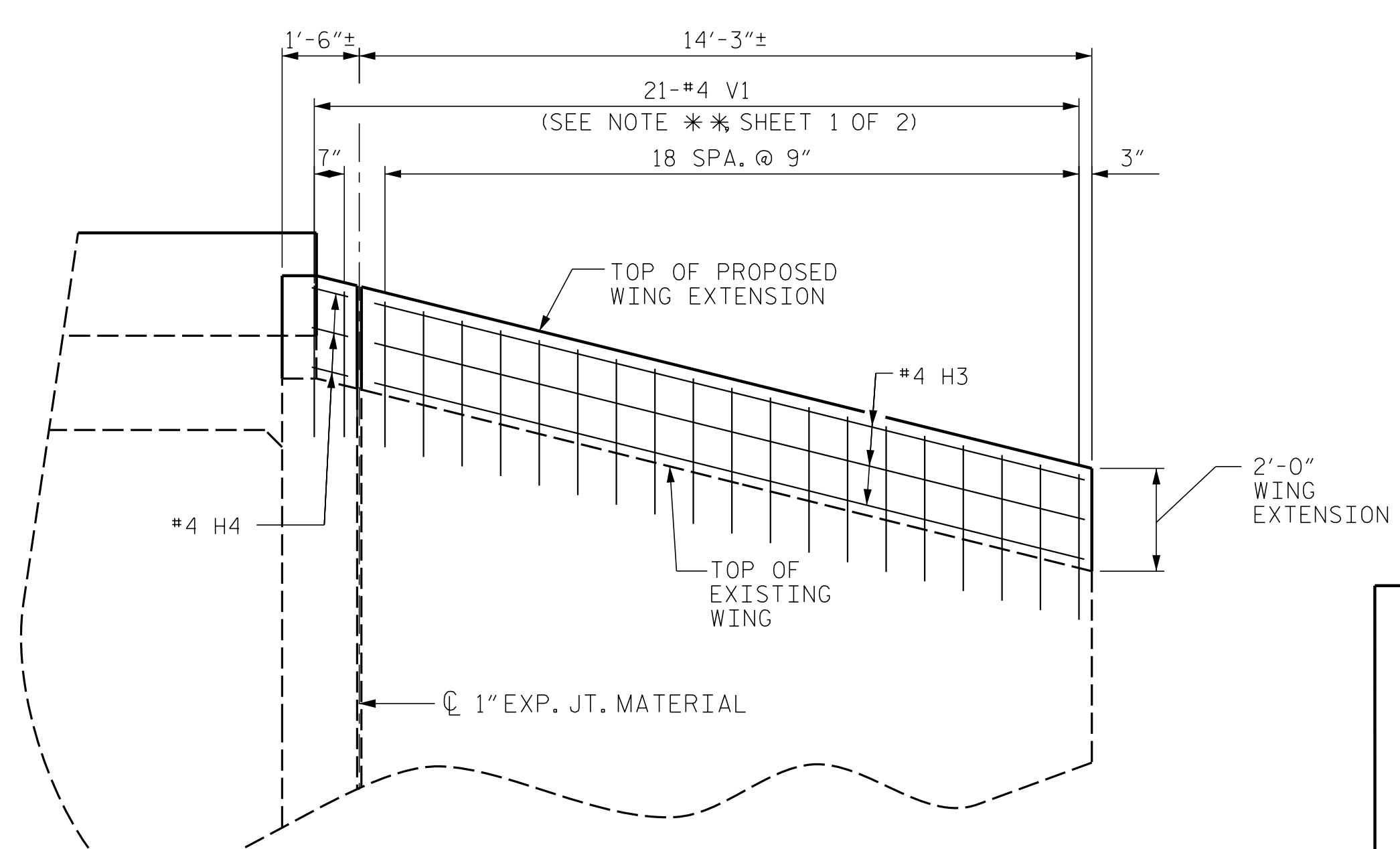
**PLAN W2**



**WING EXTENSION SECTION**  
 (TYP. EACH WING)



**ELEVATION W1**



**ELEVATION W2**

PROJECT NO. I-5786  
JOHNSTON COUNTY  
 STATION: 243+85.75 -L-  
 SHEET 2 OF 2

ENGINEER OF RECORD:  
 Gregor M. Olland  
 PROFESSIONAL ENGINEER  
 SEAL 37400  
 GREGORY M. OLLAND  
 6/5/2017  
 WETHERILL ENGINEERING  
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 Fax: 919 851 8107  
 LICENSE NO. F-0377

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

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 HEADWALL AND WING EXTENSION ON EXISTING DOUBLE 9'X7' CONCRETE BOX CULVERT

DRAWN BY: G. WILSON DATE: 5/2017  
 CHECKED BY: G.M. GILLAND DATE: 5/2017

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

P:\2017\I-5786\Structures\Culverts\DWG\243+85.75\_Culvert\I-5786\_243+85.75\_RCBC\_EXT\_WE1.dgn  
 6/5/2017 9:47:34 AM