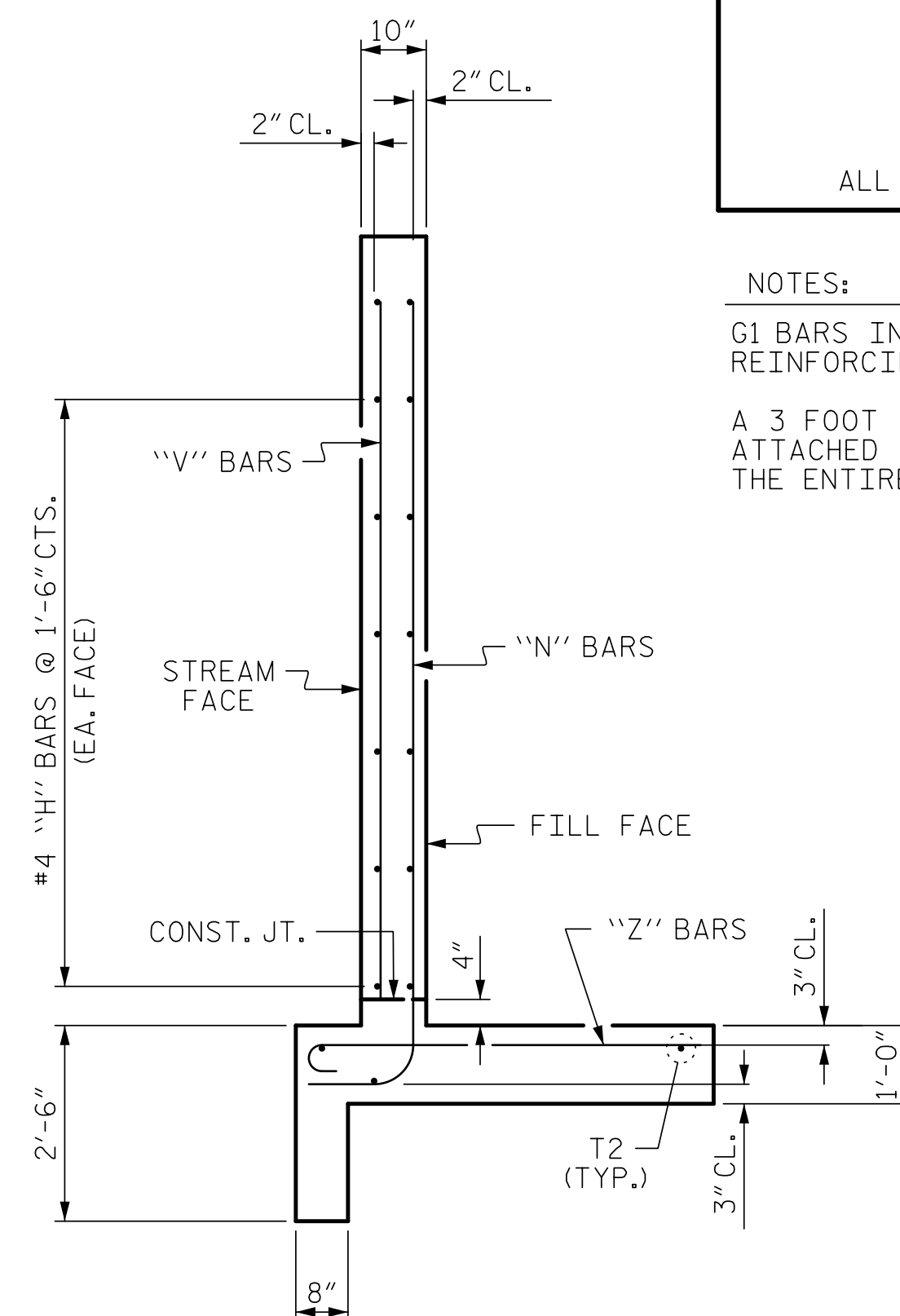
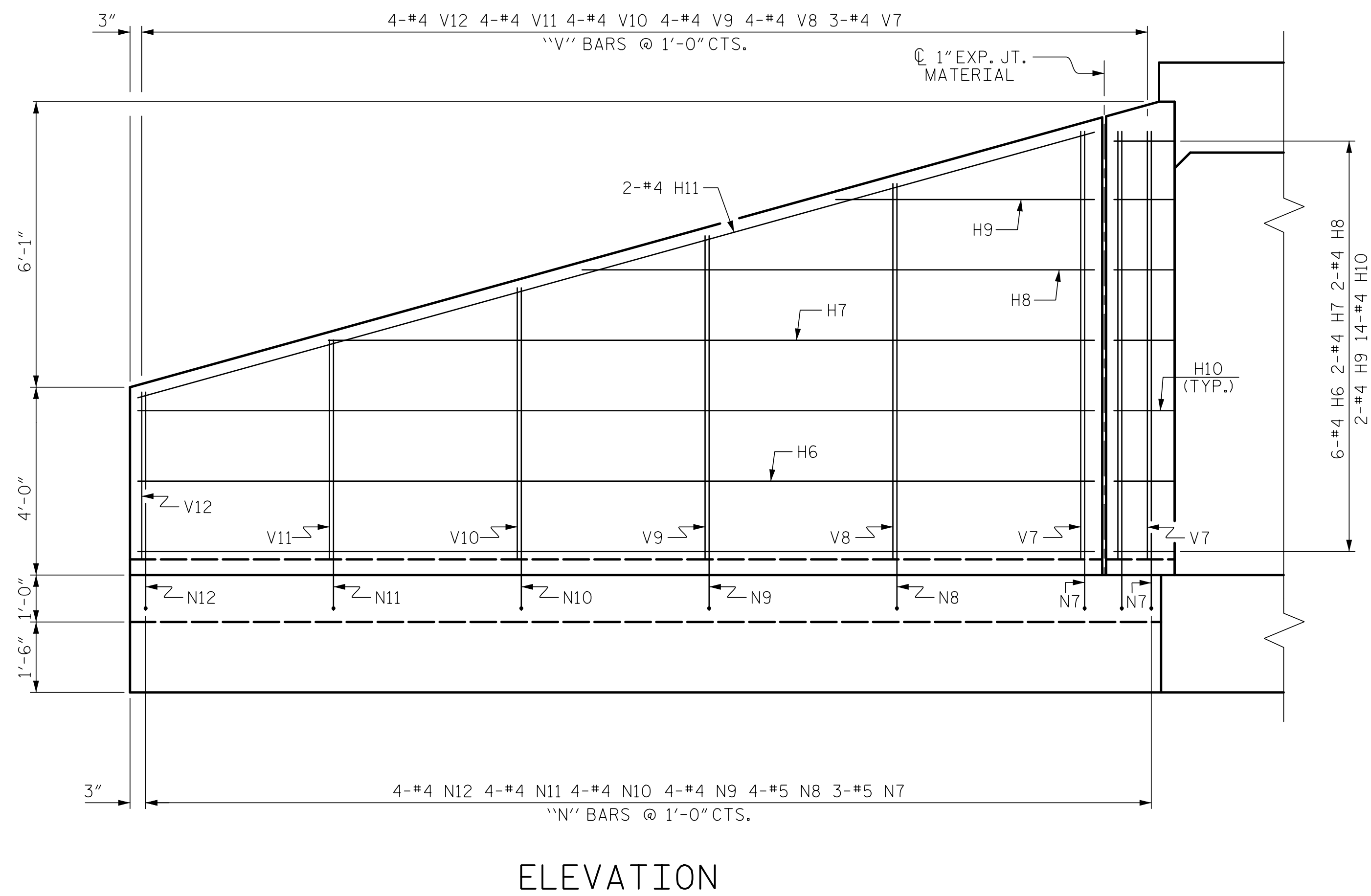
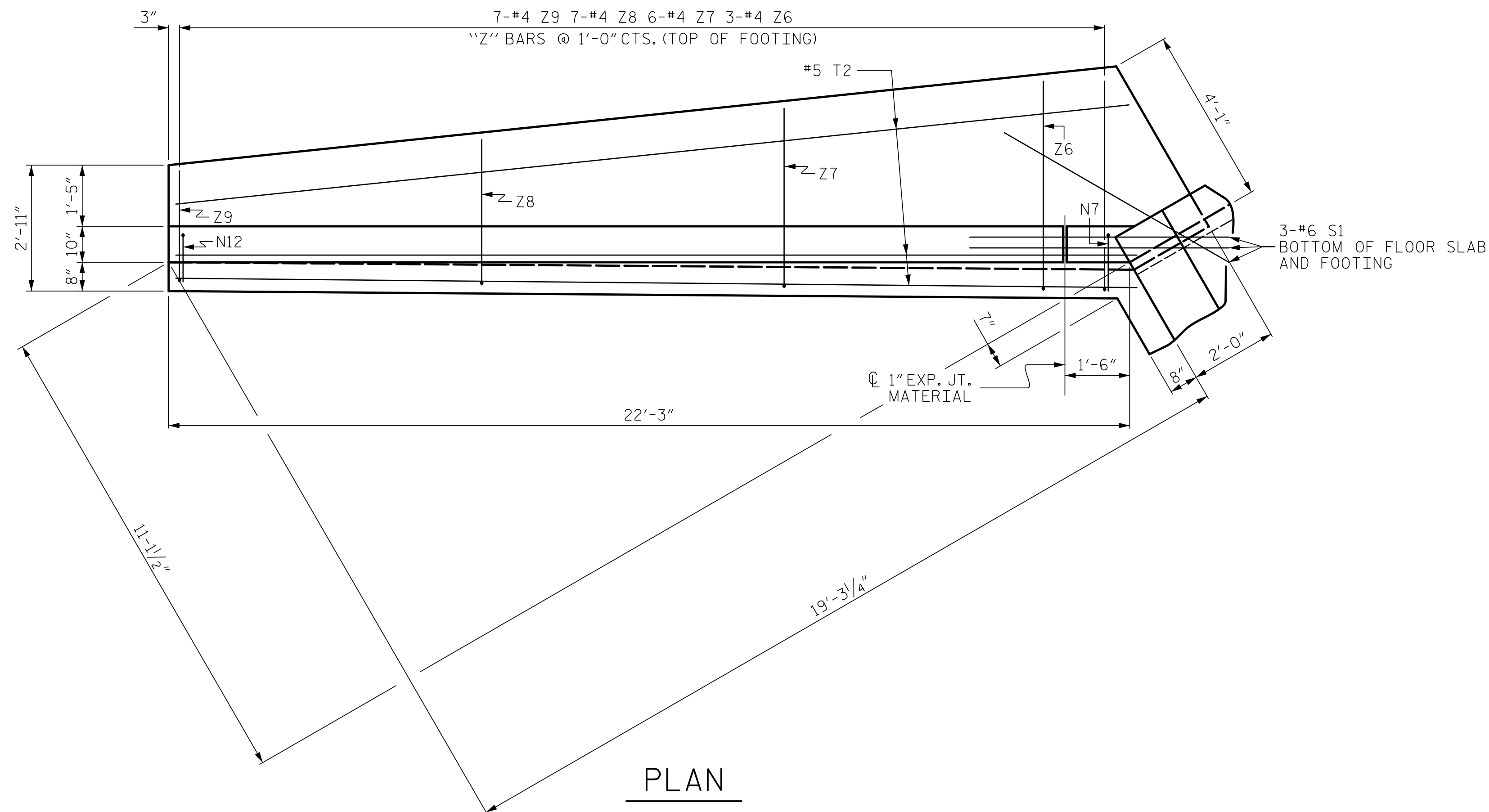




1

2'-0"

1'-0"

1'-3"

1'-8  $\frac{3}{4}$ "

2

6" RAD.

8"

9  $\frac{1}{2}$ "

N7

N8

N9

N10

N11

N12

9'-6  $\frac{1}{2}$ "

8'-6  $\frac{1}{2}$ "

7'-5  $\frac{1}{2}$ "

6'-4  $\frac{1}{2}$ "

5'-2  $\frac{1}{2}$ "

4'-1  $\frac{1}{2}$ "

3

Z6

Z7

Z8

Z9

4'-10"

4'-1"

3'-4"

2'-7"

6"

6"

6"

6"

HK.

ALL BAR DIMENSIONS ARE OUT TO OUT.

| BILL OF MATERIAL                       |     |      |      |         |           |
|----------------------------------------|-----|------|------|---------|-----------|
| BAR                                    | NO. | SIZE | TYPE | LENGTH  | WEIGHT    |
| H6                                     | 12  | #4   | STR  | 20'-4"  | 163       |
| H7                                     | 4   | #4   | STR  | 16'-3"  | 43        |
| H8                                     | 4   | #4   | STR  | 10'-10" | 29        |
| H9                                     | 4   | #4   | STR  | 5'-6"   | 15        |
| H10                                    | 28  | #4   | 1    | 3'-3"   | 61        |
| H11                                    | 4   | #4   | STR  | 21'-0"  | 56        |
|                                        |     |      |      |         |           |
| N7                                     | 6   | #5   | 2    | 11'-0"  | 69        |
| N8                                     | 8   | #5   | 2    | 10'-0"  | 83        |
| N9                                     | 8   | #4   | 2    | 8'-11"  | 48        |
| N10                                    | 8   | #4   | 2    | 7'-10"  | 42        |
| N11                                    | 8   | #4   | 2    | 6'-8"   | 36        |
| N12                                    | 8   | #4   | 2    | 5'-7"   | 30        |
|                                        |     |      |      |         |           |
| S1                                     | 6   | #6   | STR  | 6'-0"   | 54        |
|                                        |     |      |      |         |           |
| T2                                     | 6   | #5   | STR  | 22'-3"  | 139       |
|                                        |     |      |      |         |           |
| V7                                     | 6   | #4   | STR  | 9'-0"   | 36        |
| V8                                     | 8   | #4   | STR  | 7'-11"  | 42        |
| V9                                     | 8   | #4   | STR  | 6'-10"  | 37        |
| V10                                    | 8   | #4   | STR  | 5'-9"   | 31        |
| V11                                    | 8   | #4   | STR  | 4'-7"   | 24        |
| V12                                    | 8   | #4   | STR  | 3'-6"   | 19        |
|                                        |     |      |      |         |           |
| Z6                                     | 6   | #4   | 3    | 5'-4"   | 21        |
| Z7                                     | 12  | #4   | 3    | 4'-7"   | 37        |
| Z8                                     | 14  | #4   | 3    | 3'-10"  | 36        |
| Z9                                     | 14  | #4   | 3    | 3'-1"   | 29        |
|                                        |     |      |      |         |           |
| TOTAL REINFORCING STEEL<br>FOR 2 WINGS |     |      |      |         | 1180 LBS. |
| CLASS A CONCRETE<br>2 WINGS            |     |      |      |         | 18.6 C.Y. |
| 1 HEADWALL                             |     |      |      |         | 0.6 C.Y.  |
| 1 END CURTAIN WALL                     |     |      |      |         | 0.7 C.Y.  |
| TOTAL                                  |     |      |      |         | 19.9 C.Y. |

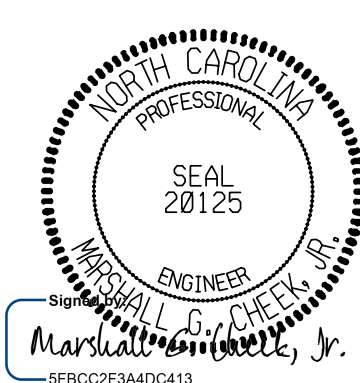
NOTES:

G1 BARS IN HEADWALL ARE INCLUDED WITH THE BARREL  
REINFORCING STEEL.

A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.

PROJECT NO. R-5739  
NORTHAMPTON COUNTY  
 STATION: 451+96.00 -L-

SHEET 9 OF 9



7/23/2025

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

**TGS ENGINEERS**  
706 HILLSBOROUGH STREET  
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RALEIGH, NC 27603  
PH (919) 773-8887  
CORP. LICENSE NO.: C-0275

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

# OUTLET WINGS FOR CONCRETE BOX CULVERT

H = 9'-0"      SLOPE = 3:1  
 RIGHT EXTENSION

|                             |     |        |       |
|-----------------------------|-----|--------|-------|
| ASSEMBLED BY :              | STM | DATE : | 07/22 |
| CHECKED BY :                | MGC | DATE : | 08/22 |
| DESIGN ENGINEER OF RECORD : | STM | DATE : | 07/22 |

3/24/2023  
X:\NCDOT\IR-5739\Structures\Str. #4 (451 + 96.00 -L-)\Final Plans\DGNS\R-5739\_SMU\_CU\_STR 4\_9.dgn  
User:ZSmith

STR. #4