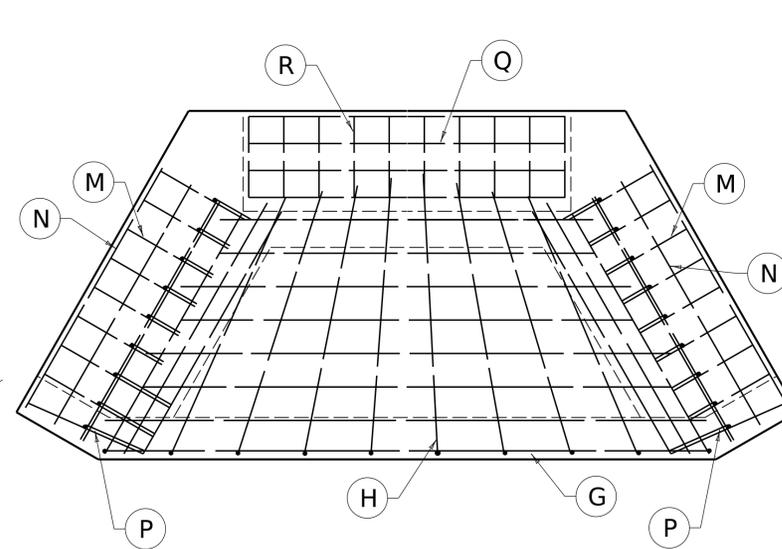
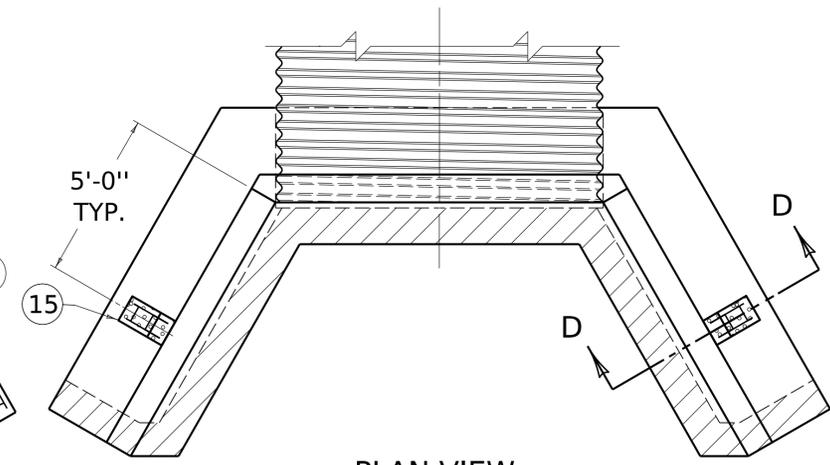


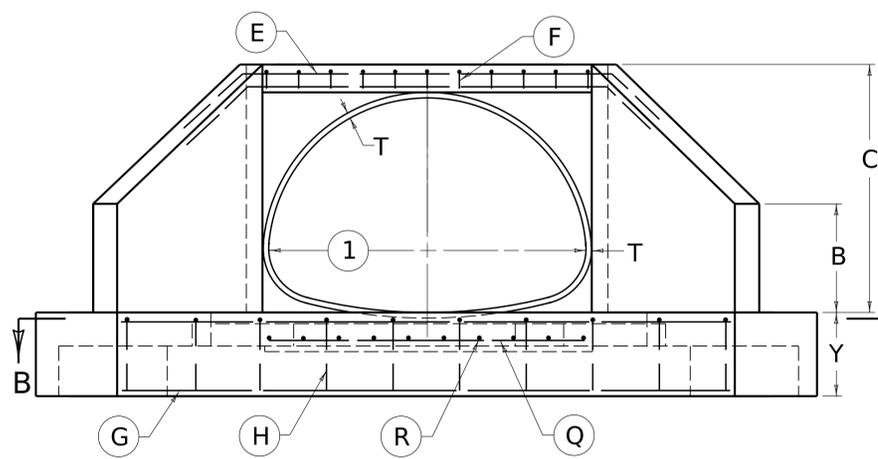
PLAN VIEW



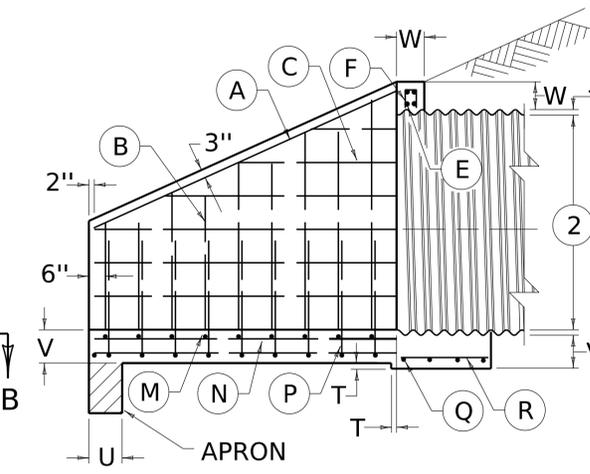
SECTION B-B



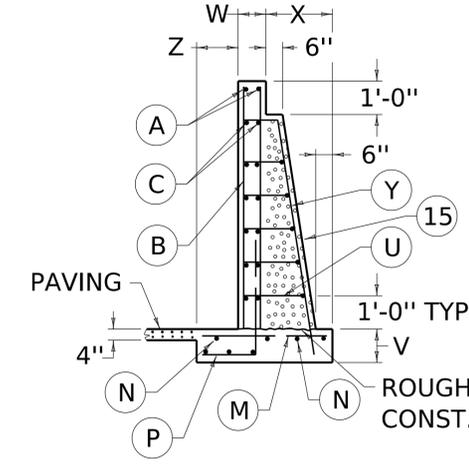
PLAN VIEW
WITHOUT PAVING



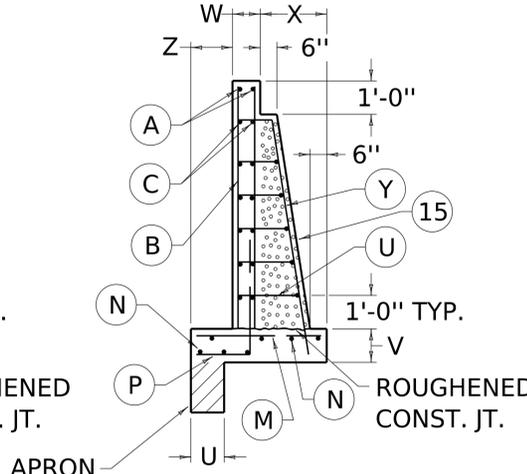
FRONT ELEVATION



SECTION A-A



SECTION C-C



SECTION D-D

NOTES

1. SPAN OF STRUCTURAL PLATE STEEL PIPE ARCH.
2. RISE OF STRUCTURAL PLATE STEEL PIPE ARCH.
3. FOR DIMENSIONS, QUANTITIES, AND BILL OF REINFORCEMENT SEE CUR. STD. DWGS. RDH-420 THRU RDH-465.
4. DIMENSIONS FROM FACE OF CONCRETE TO STEEL SHALL BE 2" CLEAR DISTANCE.
5. ENCIRCLED LETTERS, ○, INDICATE STEEL BAR LOCATIONS.
6. BARS ○B, ○C, ○G, ○M, ○P AND ○U ARE SPACED 1'-0" O.C. ALL OTHER BARS SHALL BE EVENLY SPACED.
7. BARS ○B, ○C AND ○U ARE PLACED IN ORDER OF INCREASING LENGTH, BEGINNING AT THE END OF WING, TOP OF WING AND TOP OF COUNTERFORT RESPECTIVELY.
8. HEADWALLS LOCATED AT SHOULDER EDGE SHALL BE PARALLEL TO CENTERLINE OF ROAD.
9. LIMITS OF APRON.
10. LIMITS OF PAVING.
11. LIMITS OF COUNTERFORTS.
12. THESE HEADWALLS ARE DESIGNED BOTH WITH AND WITHOUT PAVING BETWEEN THE WINGS. (SEE PLANS)
13. WHEN PAVING IS REQUIRED; PAVING SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL AND ENDS OF WINGS SHALL REMAIN VERTICAL.
14. WHEN PAVING IS NOT REQUIRED BARS ○H AND ○G SHALL BE ELIMINATED.
15. A COUNTERFORT SHALL BE REQUIRED ON A WING WALL WHEN THE PIPE RISE IS 8'-0" OR GREATER AND THE WING WALL IS 15'-0" OR LONGER.

(LAYOUT AND STEEL PATTERN)

KENTUCKY
DEPARTMENT OF HIGHWAYS

STEEL PIPE ARCH
HEADWALLS - 0° SKEW
(PIPE RISE 6'-0" OR GREATER)

STANDARD DRAWING NO. RDH-405-02

SUBMITTED _____ DIRECTOR DIVISION OF DESIGN _____ DATE _____
APPROVED _____ DATE _____