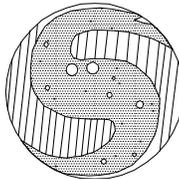


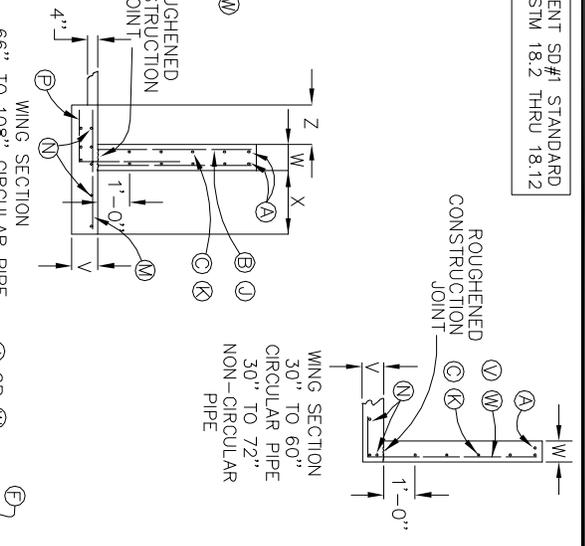
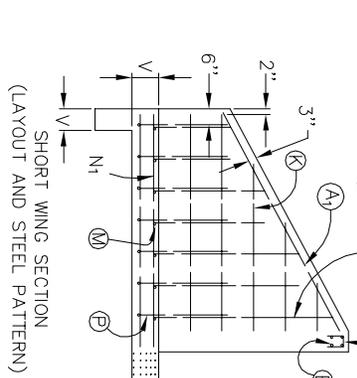
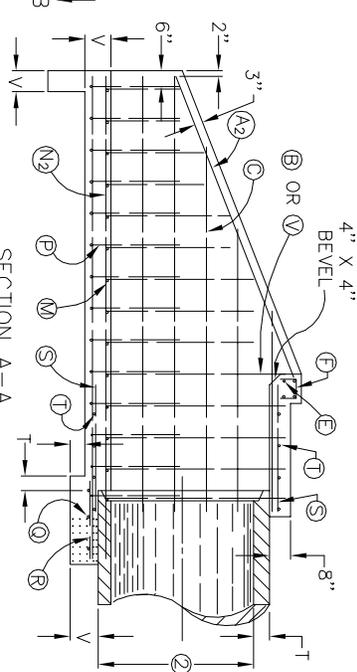
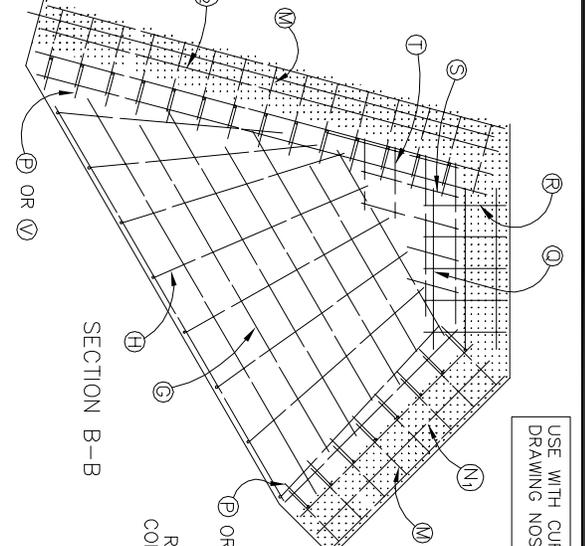
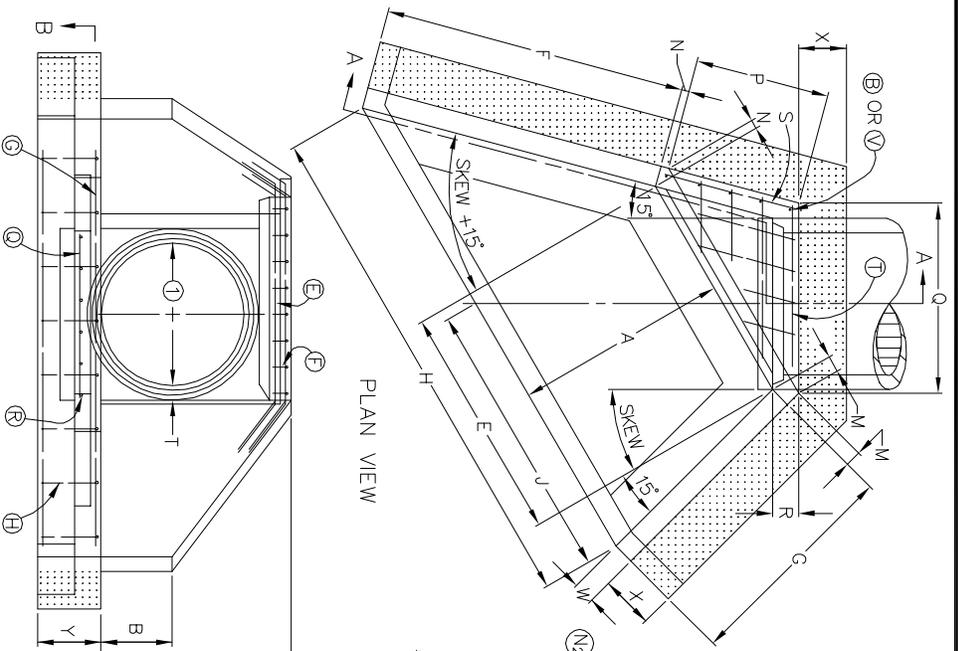
REVISION	BY	DATE



1045 Eaton Drive
 FT. Wright, Kentucky 41017
 Ph: (859) 578-7460
 Fax: (859) 331-2436

STANDARD
 DRAWING NO.:
 DATE: MAY 2010
 STM-18.1

SANITATION DISTRICT NO. 1



USE WITH CURRENT SD#1 STANDARD
 DRAWING NOS. STM 18.2 THRU 18.12

--- NOTES ---

- DIAMETER OF CIRCULAR PIPE OR SPAN OF NON-CIRCULAR PIPE.
- DIAMETER OF CIRCULAR PIPE OR RISE OF NON-CIRCULAR PIPE.
- APPLIES TO 66" DIAMETER AND GREATER (CIRCULAR PIPE).
- SEE DETAILS 216-B AND 216-C FOR DIMENSIONS, QUANTITIES, AND BILL OF REINFORCEMENT.
- DIMENSIONS FROM FACE OF CONCRETE TO STEEL SHALL BE 2" CLEAR DISTANCE.
- ENCRICLED LETTERS, O, INDICATE STEEL BAR LOCATIONS.
- BAR B, C, G, P, M, V ARE SPACED 1'-0" O.C. ALL OTHER BARS SHALL BE EVENLY SPACED.
- BAR B AND V ARE PLACED IN ORDER OF INCREASING LENGTHS, BEGINNING AT THE END OF EACH WING.
- BAR C ARE PLACED IN ORDER OF INCREASING LENGTHS, BEGINNING AT THE TOP OF EACH WING.
- HEADWALLS LOCATED AT EDGE OF SHOULDER SHALL BE PARALLEL TO CENTERLINE OF THE ROAD.
- APRON BETWEEN WINGS SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL AND ENDS OF WINGS SHALL REMAIN VERTICAL.

SAFETY GUARDS AND RAILINGS

SAFETY GUARDS AND RAILINGS SHALL BE PROVIDED ALONG THE TOP AND SLOPED/WINGED SIDE WALLS ON ALL HEADWALL INLET AND OUTLET STRUCTURES OR OTHER CULVERTS OR BRIDGE STRUCTURES HAVING A VERTICAL DROP OF FORTY EIGHT (48) INCHES OR GREATER. SUCH GUARDS OR RAILINGS SHALL BE AT LEAST FORTY TWO (42) INCHES IN HEIGHT MEASURED VERTICALLY ABOVE THE WALLS. OPENINGS IN GUARDS SHALL HAVE BALUSTERS OR ORNAMENTAL PATTERNS THAT DO NOT PROVIDE OR CREATE A LADDER EFFECT SUCH THAT A SPHERE WITH A DIAMETER OF FOUR (4) INCHES CANNOT PASS THROUGH ANY OPENING, EXCEPT FOR THE TOP EIGHT (8) INCHES. GUARDS AND RAILINGS AND ATTACHMENTS SHALL BE MADE OF MATERIALS THAT ARE WEATHER RESISTANT AND ULTRAVIOLET (UV) LIGHT RESISTANT ADEQUATE IN STRENGTH TO RESIST UNIFORM, CONCENTRATED AND IMPACT LOADS IN ACCORD WITH THE APPLICABLE SECTIONS OF THE KENTUCKY BUILDING CODE, LATEST VERSION. GUARDS AND RAILINGS CONSTRUCTED OF WOOD SHALL BE PROHIBITED. OTHER TYPES OF LANDSCAPING BUFFERS SUCH AS TREES, BUSHES OR SHRUBS MAY SUPPLEMENT, BUT NOT REPLACE GUARDS AND RAILINGS FOR SAFETY (REF. KENTON CO SUB REGS ARTICLE V, SECTION B).

HEADWALLS - 15°/30°/45° SKEW (30" - 108" CIRCULAR PIPE)

(STM-18.1)

N.T.S.

(REFERENCE KYTC STANDARD DRAWING RDH-120, KENTON COUNTY SUBDIVISION REGULATIONS)