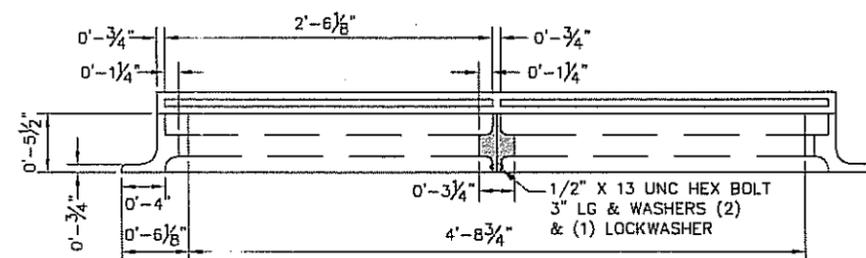
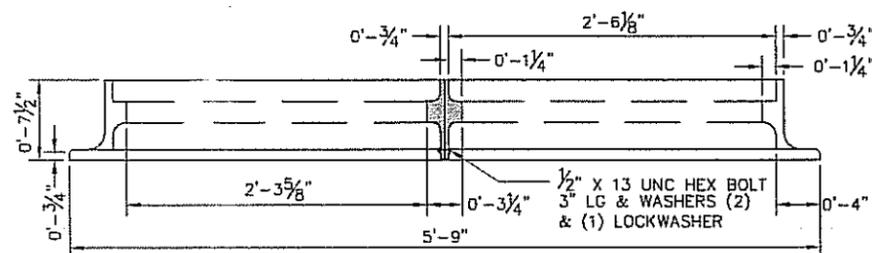


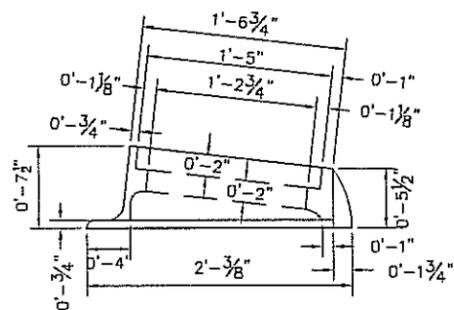
PLAN FRAME



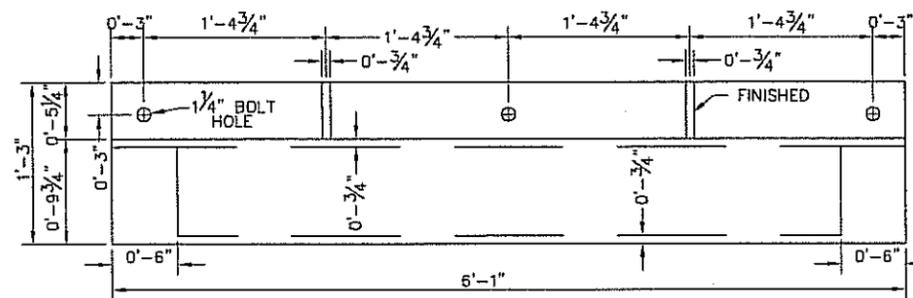
BACK VIEW - FRAME



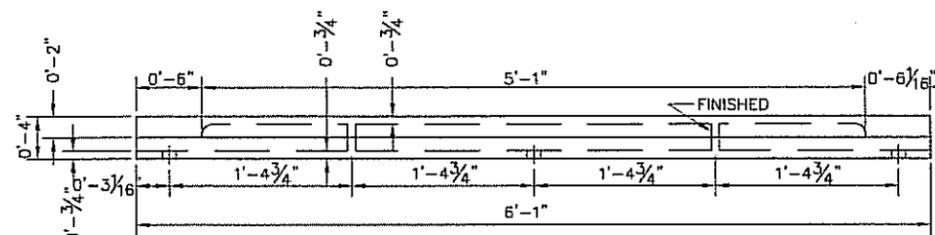
FRONT VIEW - FRAME



END VIEW FRAME



PLAN - CURB CASTING



FOR END VIEW OF CURB CASTING, SEE DRAWING I-5.1

FRONT VIEW - CURB CASTING

- GENERAL NOTES**
- TWO GRATES, BOLTED TOGETHER, ARE REQUIRED. FOR DETAILS, SEE STD. CONSTR. DWG. I-5.1. GRATE 'V' SHALL BE PROVIDED UNLESS THE PLANS SPECIFICALLY REQUIRE THE DIAGONAL GRATE. IF THE DIAGONAL GRATE IS SPECIFIED, IT SHALL BE PLACED SO THAT THE DIAGONAL BARS DIRECT DRAINAGE FLOW TOWARD THE CURB. THE GRATES SHALL BE PROPERLY ORIENTED BASED ON WATER FLOW.
 - THE DESIGN OF THE CASTINGS SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THOSE SHOWN. MINIMUM MASS: CURB CASTING 265 LBS., FRAME 620 LBS., AND TWO GRATES 'V' 260 LBS. SEE STD. DWG. MH-8 FOR ACCEPTABLE CASTINGS.
 - THE FRAME AND GRATE SHALL BE SO FITTED AND FINISHED AS TO PROVIDE A FIRM AND EVEN SEAT. NO PROJECTIONS SHALL EXIST ON BEARING AREAS AND THE GRATE SHALL SEAT IN ITS FRAME WITHOUT ROCKING.
 - WHEN USED IN PLACE OF CONCRETE, BRICK SIDE WALLS SHALL BE 8" NOMINAL THICKNESS WITH 1/2" MORTAR COAT ON OUTSIDE OF WALLS. EVERY SEVENTH COURSE TO BE A STRETCHER COURSE.
 - PRECAST CONSTRUCTION IS PERMITTED, EXCEPT FOR THE BLOCK-OUT. PRECAST CONCRETE SHALL BE 4000 PSI (MIN.) AND SHALL MEET REQUIREMENTS OF 706.13 WITH A MINIMUM OF 6±2% ENTRAINED AIR IN THE HARDENED CONCRETE. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6" AND REINFORCING SHALL BE SUFFICIENT TO PERMIT SHIPPING AND PLACEMENT WITHOUT DAMAGE.
 - PIPE OPENINGS SHALL BE THE O.D. OF THE PIPE BEING SUPPLIED PLUS 2". FIELD MODIFICATIONS SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER. THE ANNULAR SPACE SHALL BE FILLED WITH NON-SHRINK GROUT PER 701.11. ANY UNUTILIZED OPENINGS AS A RESULT OF FIELD MODIFICATIONS SHALL BE FILLED USING BRICK AND MORTAR.
 - ADJUSTMENTS, IF REQUIRED, SHALL BE MADE USING BRICK AND NON-SHRINK MORTAR. PRECAST ADJUSTMENT SECTIONS WILL NOT BE ALLOWED.
 - BLOCKOUTS SHALL BE PAVED USING CLASS 'C' CONCRETE. COSTS FOR BLOCK OUT SHALL BE INCLUDED IN THE COST OF THE INLET. FOUR 1"X18" DOWELS ARE REQUIRED FOR BLOCKOUTS. SEE BP-4 FOR DOWEL DETAILS. ALL REINFORCING IN APRON AND CURB & GUTTER SHALL BE EPOXY-COATED WITH MINIMUM 2" COVER.
 - INSTALL UNDERDRAIN PIPE THROUGH INLET WALL ON UPHILL SIDE, OR BOTH SIDES IF INLET IS IN A SUMP.
 - SLOPED BOTTOM SHALL BE POURED AFTER OUTLET PIPE IS IN PLACE. CONTRACTOR SHALL USE A READY MIX CONCRETE, CLASS 'C'.
 - INLETS CONSTRUCTED AT NORMAL DEPTH OR DEEPER SHALL BE PAID FOR AS DOUBLE NO. 5 INLET. ALL DEPTHS SHALLOWER THAN NORMAL DEPTH SHALL BE PAID FOR AS DOUBLE NO. 5 INLET. DO NOT SCALE - USE DIMENSIONS ONLY

CITY OF AKRON BUREAU OF ENGINEERING	CONSTRUCTION STANDARD DWG. No. 1-5.3
<i>Michael Madonia</i> 2/14/07 MANAGER, DESIGN DIVISION	DOUBLE NO. 5 INLET CASTING AND GRATE
<i>James P. Wilson</i> 2/26/07 MANAGER, CONSTRUCTION DIVISION	
<i>Daniel G. Leitch</i> 2/26/07 CITY ENGINEER	
AUTOCAD DRAWING - STD_I-9.DWG REVISIONS: FEBRUARY 12, 2007	