

CONCRETE OR CAST IRON COVER
 24-1/2" DIA.
INLET STONE (SEE SHEET 45)
 13-1/2" DIA.
SINGLE CURB INLET (SEE SHEET 40)
 7" R. 11-1/2" DIA.
ADAPTER RING
 42" DIA.
CONCRETE OR CAST IRON COVER
 24-1/2" DIA.
INLET STONE
 13-1/2" DIA.
SHALLOW SINGLE CURB INLET
 3/4" MORTAR BED WITH 2-1/2" DIA. 1" DIA. PINS
 1/2" REBAR @ 10" CENTERS
INLET SILL
 6" x 8" x 3'-2"

NOTES:
 1) APPROVED PATENTED COMPRESSION TYPE JOINT
 2) SEE CHART FOR MINIMUM DIMENSIONS.

SINGLE STREET INLETS PRECAST CONCRETE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. J.G./SAM Ch. J.C.K. 2000 SHEET 37
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DOUBLE UNTRAPPED STREET INLET
 PRECAST CONCRETE
 PLAN
 SECTION A-A
 24" DIA. HOLES
 18" DIA. HOLES
 24" DIA. HOLES

TRAPPED STREET INLET BASE
 PRECAST CONCRETE
 PLAN
 SECTION A-A
 24" DIA. HOLES
 18" DIA. HOLES
 24" DIA. HOLES

NOTES:
 1) THIS TRAP INLET CAN BE USED WITH 42 INCH I.D. RISER SECTION OR PRECAST CONCRETE ADAPTOR RING.
 2) STANDARD DEPTH = 6.0 FEET.
 3) 5000 P.S.I. CONCRETE IS REQUIRED.

DOUBLE UNTRAPPED STREET INLET PRECAST CONCRETE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. J.G./SAM Ch. J.C.K. 2000 SHEET 38
TRAPPED STREET INLET BASE PRECAST CONCRETE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. WSH/SAM Ch. J.C.K. 2000 SHEET 39

PRECAST CONCRETE UNIT FOR SINGLE STREET INLET
 PLAN
 ELEVATION
 SECTION A-A
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTES:
 1) SET STANDARD INLET STONE IN 3/4" MORTAR BED AND DOME WITH 5/8" DIA. 1'-0" LONG PINS AND GROUT.
 2) RAISE TO FINAL GRADE WITH COURSES OF BRICK AND SET THE UNIT TO BASE WITH 3/4" MORTAR BED.
 3) THIS UNIT IS TO BE USED WITH 42 INCH I.D. POURED-IN-PLACE CONCRETE OR BRICK BASE.
 4) 5000 P.S.I. CONCRETE IS REQUIRED.

PRECAST CONCRETE UNIT FOR SINGLE STREET INLET	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. WSH/SAM Ch. J.C.K. 2000 SHEET 40
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PRECAST CONCRETE UNIT FOR 4 WAY AREA INLET
 PLAN
 SECTION A-A
 SECTION B-B
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTES:
 1) SET STANDARD INLET STONE IN 3/4" MORTAR BED AND DOME WITH 5/8" DIA. 1'-0" LONG PINS AND GROUT.
 2) RAISE TO FINAL GRADE WITH COURSES OF BRICK AND SET THE UNIT TO BASE WITH 3/4" MORTAR BED.
 3) THIS UNIT IS TO BE USED WITH 42 INCH I.D. BASE.
 4) 5000 P.S.I. CONCRETE IS REQUIRED.

PRECAST CONCRETE UNIT FOR 4 WAY AREA INLET	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. DAB/SAM Ch. J.C.K. 2000 SHEET 41
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CONCRETE DOUBLE STREET INLET WITH PRECAST CONCRETE UNIT "A"
 PLAN
 SECTION A-A
 SECTION B-B
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTES:
 1) STANDARD DEPTH 5'-0" PIPE DIAMETER
 2) RAISE TO FINAL GRADE WITH COURSES OF BRICK AND 3/4" MORTAR BED

CONCRETE DOUBLE STREET INLET WITH PRECAST CONCRETE UNIT "A"	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. ROW/SAM Ch. J.C.K. 2000 SHEET 42
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PRECAST CONCRETE UNIT "A" FOR STREET DOUBLE INLET
 PLAN
 ELEVATION
 SECTION A-A
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTES:
 1) SET TWO (2) STANDARD INLET STONES IN 3/4" MORTAR BED AND DOME WITH 5/8" DIA. 1'-0" LONG PINS AND GROUT.
 2) RAISE TO FINAL GRADE WITH COURSES OF BRICK AND SET THE UNIT TO BASE WITH 3/4" MORTAR BED.
 3) THIS UNIT IS TO BE USED WITH POURED-IN-PLACE CONCRETE BASE.
 4) 5000 P.S.I. CONCRETE IS REQUIRED.
 5) 1" MIN. CLEARANCE, ALL REINFORCEMENT.

PRECAST CONCRETE UNIT "A" FOR STREET DOUBLE INLET	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. ROW/SAM Ch. J.C.K. 2000 SHEET 43
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PRECAST CONCRETE UNIT "B" FOR STREET DOUBLE INLET
 PLAN
 ELEVATION
 SECTION A-A
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTES:
 1) SET TWO (2) STANDARD INLET STONES IN 3/4" MORTAR BED AND DOME WITH 5/8" DIA. 1'-0" LONG PINS AND GROUT.
 2) SET THE UNIT TO BASE WITH 3/4" MORTAR BED.
 3) THIS UNIT IS TO BE USED WITH PRECAST BASE OR BRICK BASE HAVING 8 INCH THICK WALLS AND ROSE EMBODIMENT CONFORMING TO THE ABOVE DIMENSIONS OF THE UNIT AS INDICATED.
 4) 5000 P.S.I. CONCRETE IS REQUIRED.
 5) 1" MIN. CLEARANCE, ALL REINFORCEMENT.

PRECAST CONCRETE UNIT "B" FOR STREET DOUBLE INLET	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. ROW/SAM Ch. J.C.K. 2000 SHEET 44
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STANDARD - INLET STONES, BLOCKS & DESIGN DETAILS
 PLAN
 SECTION A-A
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTES:
 1) PROVIDE 1/8" BARS SPACING APPROXIMATELY 3/4" TO 1" HIGH.
 2) 5000 P.S.I. CONCRETE IS REQUIRED.
 3) 1/2" REBAR MUST BE USED (EVEN REINFORCED POLYMER) REINFORCEMENT AS COURED IN THE AGGREGATE AND THE DESIGN AND CONSTRUCTION OF CONCRETE REINFORCEMENT WITH FWP BARS MUST BE 17 JANUARY 2000.

STANDARD - INLET STONES, BLOCKS & DESIGN DETAILS	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. ROW/SAM Ch. J.C.K. 2000 SHEET 45
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HEAVY DUTY 8 INCH INLET STONE (ALTERNATE)
 PLAN
 ELEVATION
 SECTION A-A
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTE:
 FOR SPECIAL USE WHEN APPROVED IN TRUCK TRAFFIC AREA.

HEAVY DUTY 8 INCH INLET STONE (ALTERNATE)	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. S.A.M. Ch. P.W.S. 2000 SHEET 46
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PRECAST CONCRETE INLET COVER
 PLAN
 SECTION A-A
 SECTION B-B
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTES:
 1) PROVIDE 1/8" BARS SPACING APPROXIMATELY 3/4" TO 1" HIGH.
 2) 5000 P.S.I. CONCRETE IS REQUIRED.
 3) 1/2" REBAR MUST BE USED (EVEN REINFORCED POLYMER) REINFORCEMENT AS COURED IN THE AGGREGATE AND THE DESIGN AND CONSTRUCTION OF CONCRETE REINFORCEMENT WITH FWP BARS MUST BE 17 JANUARY 2000.

PRECAST CONCRETE INLET COVER	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. ROW/SAM Ch. J.C.K. 2000 SHEET 47
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DETAILS OF INLET FRAME AND GRATES
 PLAN
 SECTION A-A
 SECTION B-B
 SECTION F-F
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTE B:
 PROVIDE 1/8" RAISED LETTERING APPROXIMATELY 3/4" TO 1" HIGH.
 B1: METRO ST. LOUIS
 B2: SEWER DIST. SEWERS
 MATERIAL: CAST GRAY IRON ASTM A48

DETAILS OF INLET FRAME AND GRATES	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. ROW/SAM Ch. J.C.K. 2000 SHEET 48
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DETAIL OF STEEL GRATE
 PLAN
 ELEVATION
 3/8" x 2" FILLER
 3/8" DIA. MIN.
 3/8" DIA. MIN.

FINISH:
 NATURAL - HOT DIP GALVANIZED (ASTM A133/A133M-93)
 WILD CARBON STEEL - ASTM A568
 H-20 LEADING
 HEIGHT - 95 LB. MINIMUM
 TOLERANCES - ALL DIMENSIONS 1/8"
 IDENTIFICATION - THE MANUFACTURER MUST PLACE HIS NAME OR MARK ON EACH UNIT FOR THE PURPOSE OF IDENTIFICATION

DETAIL OF STEEL GRATE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. ROW/SAM Ch. J.C.K. 2000 SHEET 49
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STEEL REQUIREMENTS FOR GRATE INLET SEAT
 PLAN
 SECTION A-A
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

STEEL REQUIREMENTS FOR GRATE INLET SEAT	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. WSH/SAM Ch. J.C.K. 2000 SHEET 50
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CAST IRON SIDE INTAKE UNIT FOR GRATES 249 LBS.
 PLAN
 ELEVATION
 END VIEW
 SECTION A-A
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTE:
 ALL BARS NOT INDICATED SHALL HAVE A PERMISSIBLE TOLERANCE OF 1/8" R. OR LESS.

CAST IRON SIDE INTAKE UNIT FOR GRATES 249 LBS.	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. ROW/SAM Ch. J.C.K. 2000 SHEET 51
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CAST IRON MANHOLE FRAME
 PLAN
 ELEVATION
 SECTION A-A (230 lbs.)
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTE:
 GROOVE 3/16" R. 3/16" DEEP (OPTIONAL)

CAST IRON MANHOLE FRAME	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. DAB/SAM Ch. J.C.K. 2000 SHEET 52
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CAST IRON COVERS MANHOLES AND INLETS
 PLAN
 SECTION A-A
 SECTION B-B
 SECTION C-C
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTE B:
 PROVIDE 1/8" RAISED LETTERING APPROXIMATELY 3/4" TO 1" HIGH.
 B1: METRO ST. LOUIS
 B2: SEWER DIST. SEWERS

CAST IRON COVERS MANHOLES AND INLETS	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. ROW/SAM Ch. J.C.K. 2000 SHEET 53
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CAST IRON MANHOLE COVERS (LOCK TYPE)
 PLAN
 SECTION A-A
 SECTION B-B
 3/4" DIA. HOLES
 3/4" DIA. HOLES
 3/4" DIA. HOLES

NOTE:
 (1) USE APPROVED BUTYL RUBBER PREFORMED MASTIC SEALANT OR APPROVED SELF-HEALING GASKET BETWEEN COVER AND FRAME.
 (2) PROVIDE 1/8" RAISED LETTERING APPROXIMATELY 3/4" TO 1" HIGH.
 B1: METRO ST. LOUIS
 B2: SEWER DIST. SEWERS

NOTE B1:
 CORE HOLES ON AN 18-3/4" DIAMETER BOLT CIRCLE FOR (1) TYPE "C" CAN LOCKS, (2) SPACED USE 1/8" x 3-1/2" A308-B8 HEX HEAD STAINLESS STEEL BOLTS AND WASHERS.

CAST IRON MANHOLE COVERS (LOCK TYPE)	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. WSH/SAM Ch. J.C.K. 2000 SHEET 54
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