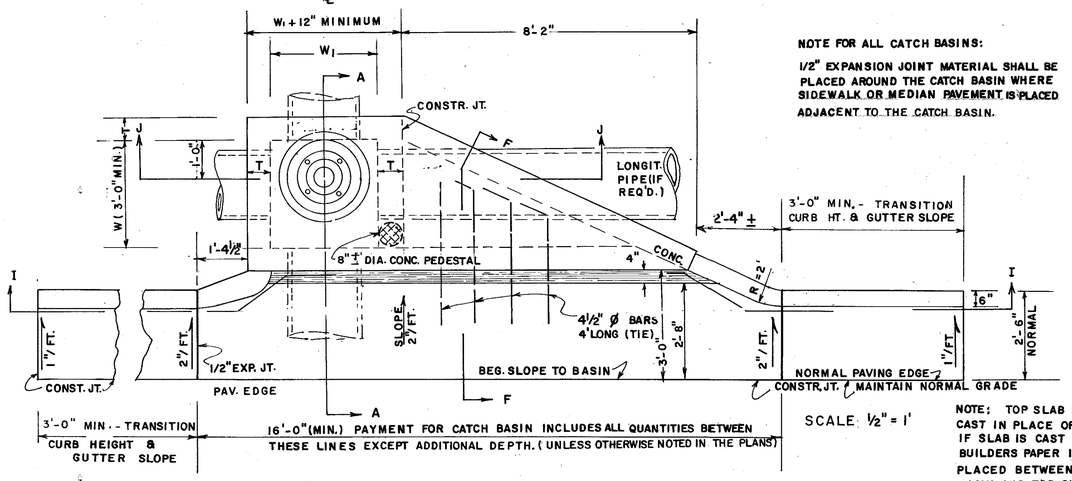
AF 21868

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CATCH BASIN
(IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)



SCALE: ½" = 1'

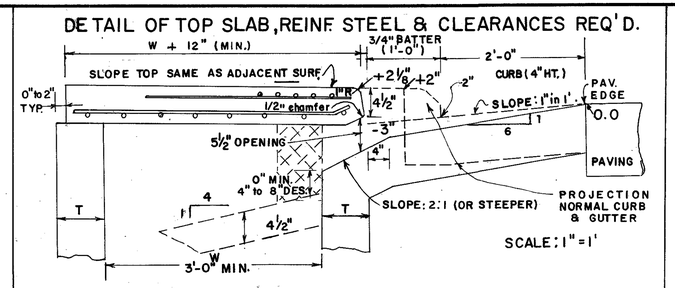
PLAN

NOTE FOR ALL CATCH BASINS:

1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.

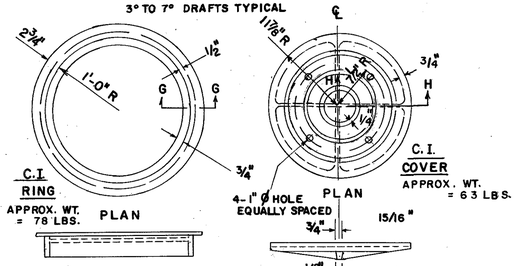
NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST, IF SLAB IS CAST IN PLACE BUILDERS PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.

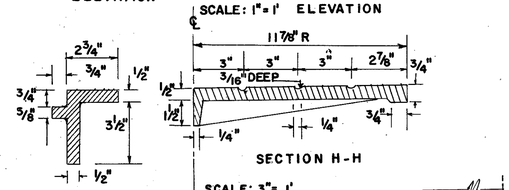
DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.

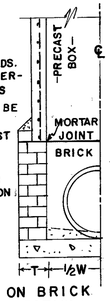


SCALE: 1" = 1'

CASTING DETAILS
3° TO 7° DRAFTS TYPICAL



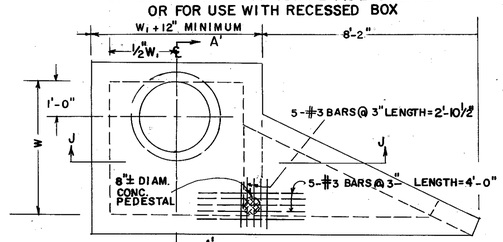




NOTE:
SEE SEPARATE STDS. FOR PRECAST ALTERNATES. ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRECAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN PLACE CONSTRUCTION MAY BE USED IN COMBINATIONS.

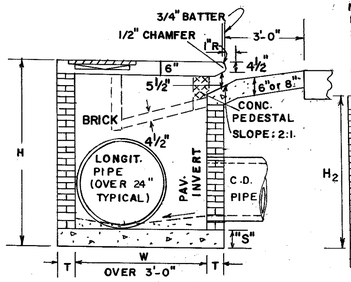
NOTE:
DETAILS NOT SHOWN FOR CATCH BASIN WITH PROTUDED BACK WILL BE SIMILAR TO THOSE SHOWN FOR NORMAL CATCH BASIN.

CATCH BASIN- (WITH PROTRUDED BACK)
FOR USE WITH LONGITUDINAL PIPE OVER 24"
OR FOR USE WITH RECESSED BOX



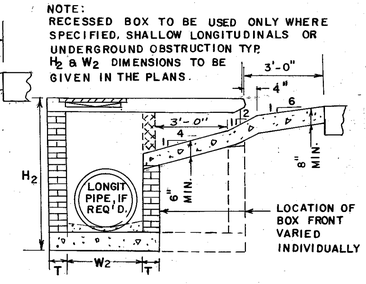
PART PLAN
NO SCALE

NOTE: FOR OTHER DIMENSIONS SEE DETAILS FOR SMALL CATCH BASIN.

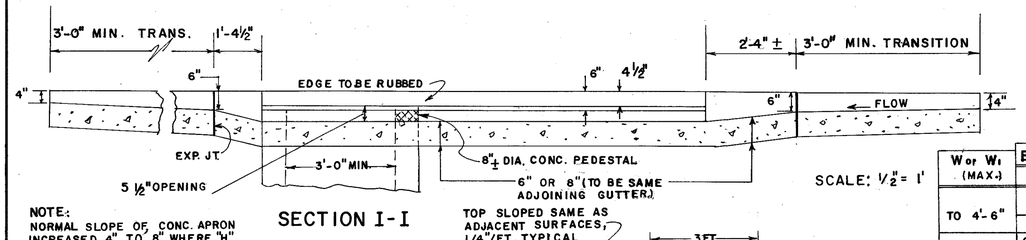


SECTION A'-A'
(FOR LARGE LONGIT. PIPE)

NOTE:
RECESSED BOX TO BE USED ONLY WHERE SPECIFIED, SHALLOW LONGITUDINALS OR UNDERGROUND OBSTRUCTION TYP.
H_2 & W_2 DIMENSIONS TO BE GIVEN IN THE PLANS.



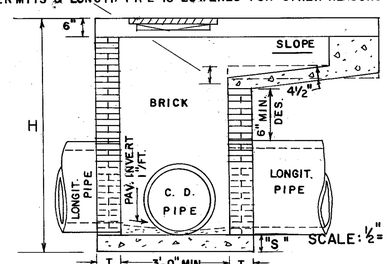
SECTION A'-A'
(FOR RECESSED BOX)



SCALE: ½" = 1'

SECTION I-I

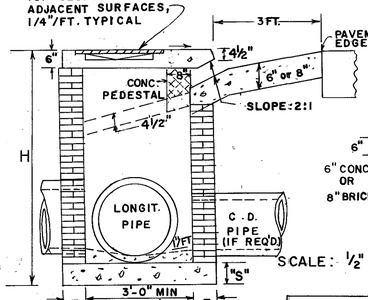
NOTE:
NORMAL SLOPE OF CONC. APRON INCREASED 4" TO 8" WHERE "H" PERMITS & LONGIT. PIPE IS LOWERED FOR OTHER REASONS



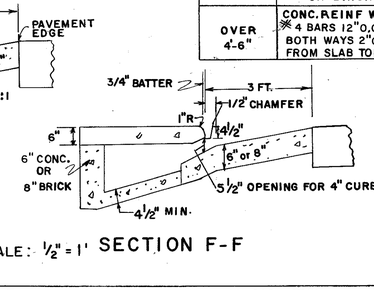
SCALE: ½" = 1'

SECTION J-J

TOP SLOPED SAME AS ADJACENT SURFACES, 1/4"/FT. TYPICAL



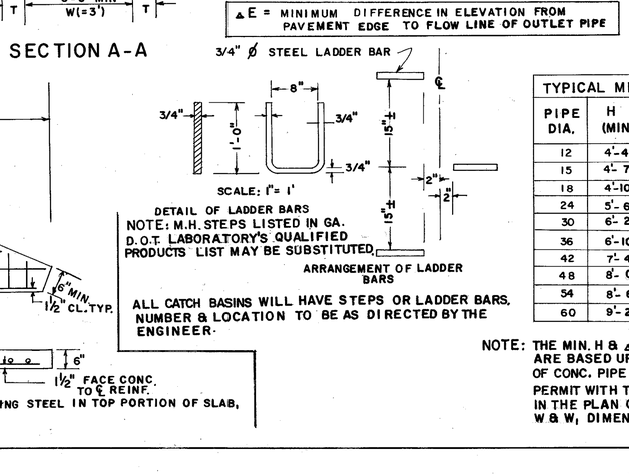
SECTION A-A

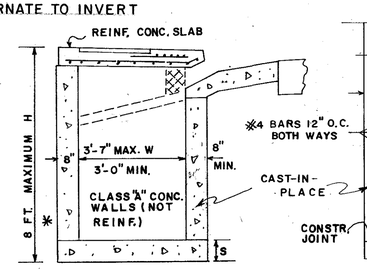


SCALE: ½" = 1' SECTION F-F

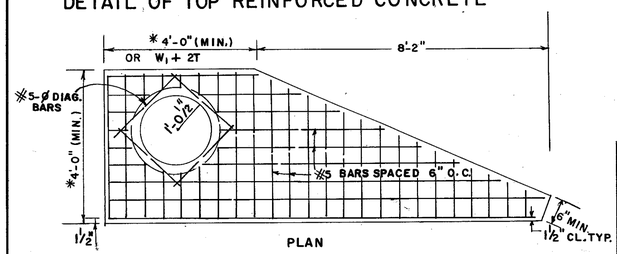
W or W_1 (MAX.)	BOTTOM SLAB MATERIALS	"S"
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF W_1 ✻4 BARS 12" O.C. BOTH WAYS 2" CL. FROM SLAB TOP	8"

▲E = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE





DETAIL OF TOP REINFORCED CONCRETE



NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 8" O.C.

NOTE: FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB, SEE PART PLAN AT TOP RIGHT.

NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS. NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

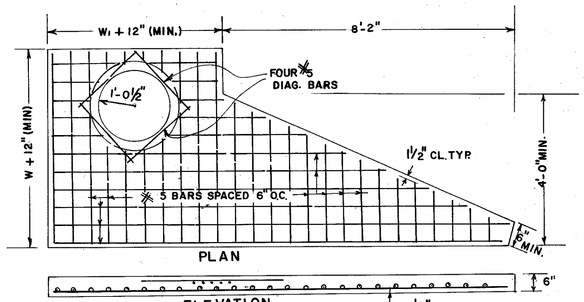
TYPICAL MIN. DIMENSIONS			
PIPE DIA.	H (MIN)	W or W_1	MIN. ▲E
12	4'-4"	3'-0"	3'-5"
15	4'-7"	3'-0"	3'-8"
18	4'-10"	3'-0"	3'-11"
24	5'-6"	3'-0"	4'-6"
30	6'-2"	3'-7"	5'-2"
36	6'-10"	4'-6"	5'-9"
42	7'-4"	5'-3"	6'-1"
48	8'-0"	6'-0"	6'-8"
54	8'-6"	6'-8"	7'-2"
60	9'-2"	7'-4"	7'-9"

NOTE: THE MIN. H & ▲E GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED, IF CONDITIONS PERMIT WITH THE VARIED DIMENSIONS SPECIFIED IN THE PLAN OR DIRECTED BY THE ENGINEER. W & W_1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

CONSTRUCTION ALTERNATES

NOTE: DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

DETAIL OF TOP REINFORCED CONCRETE SLAB



NOTES:
—PIPE SIZES NUMBER & LOCATION AND INVERTS SHOWN ARE ILLUSTRATIVE, SEE PLANS FOR SPECIFICS, INVERTS TO BE FORMED WITH GROUT OR CONCRETE AS DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS.
—TYPICAL TREATMENTS FOR SKEWED PIPE ARE: CIRCULAR PRECAST UNITS; PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZE TO ACCOMODATE SKEWS.
—SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD CATCH BASINS

FOR USE WITH CURB (4" HT.) & GUTTER

SCALE AS SHOWN

REV. & REDR. AUGUST, 1982

REV. & REDR. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Thomas D. Moorehouse
STATE HIGHWAY ENGINEER

NUMBER 1033E

FORM EF3