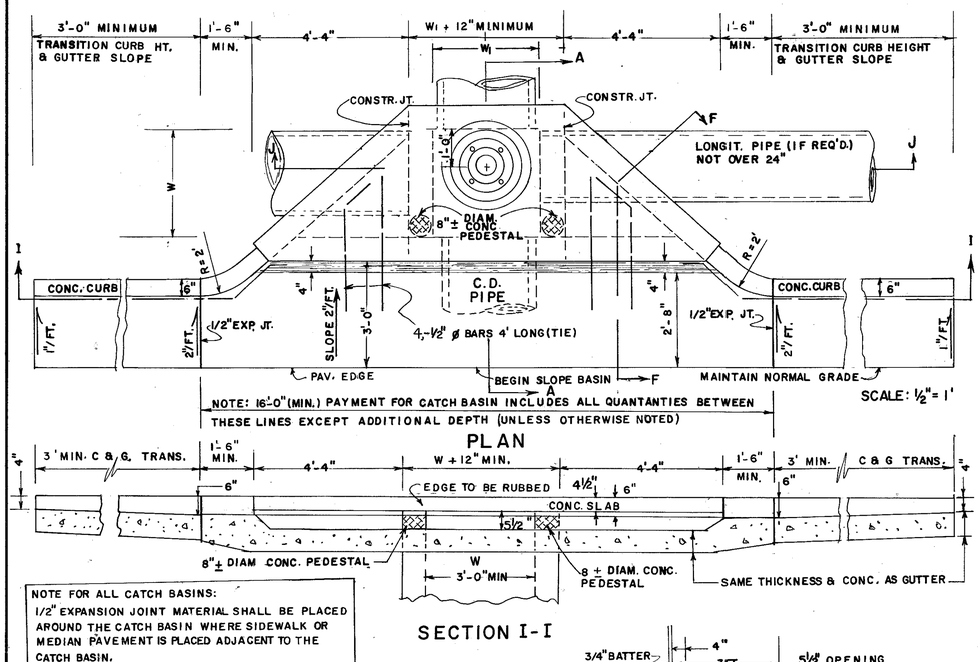
AF 21868

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CATCH BASIN

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

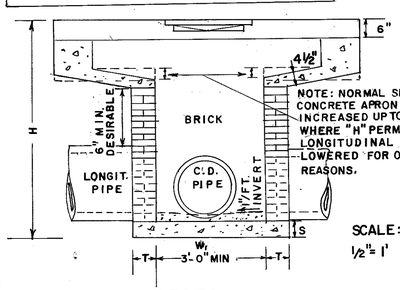


NOTE: 16'-0" (MIN.) PAYMENT FOR CATCH BASIN INCLUDES ALL QUANTANTIES BETWEEN THESE LINES EXCEPT ADDITIONAL DEPTH (UNLESS OTHERWISE NOTED)

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.

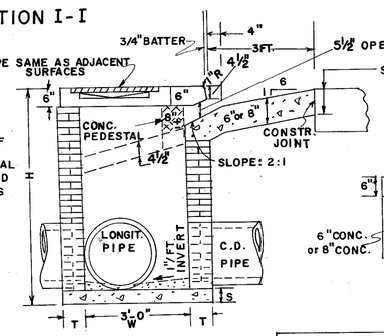
SECTION I-I



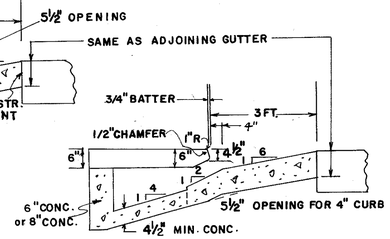
NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED UP TO 6" TOTAL WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.

SCALE: ½" = 1'

SECTION J-J



SECTION A-A

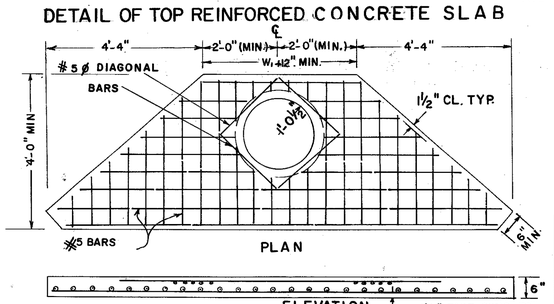


SECTION F-F

NOTE:
PIPE SIZES, NUMBER, ALIGNMENT, AND INVERTS SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFIES. INVERTS TO BE FORMED WITH GROUT OR CONC. AS DIRECTED BY THE ENGINEER.

W OR W1 (MAX.)	BOTTOM SLAB MATERIALS	"S"
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W1 #4 BARS 12" O.C. BOTH WAYS, 2" CL. FROM SLAB TOP	8"

DETAIL OF TOP REINFORCED CONCRETE SLAB



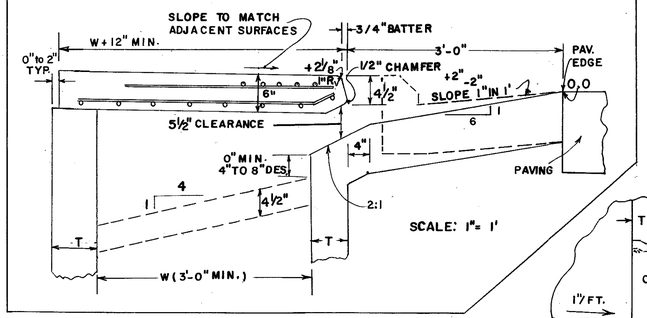
PLAN

ELEVATION

NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 6" O.C.

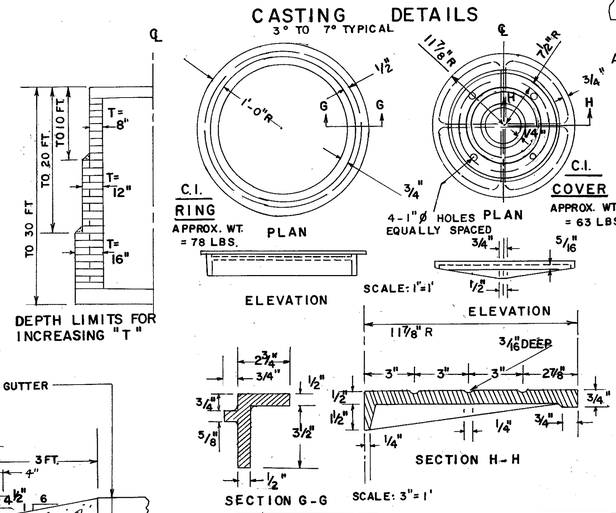
FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB, SEE PART PLAN AT TOP RIGHT.

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



CASTING DETAILS

3° TO 7° TYPICAL



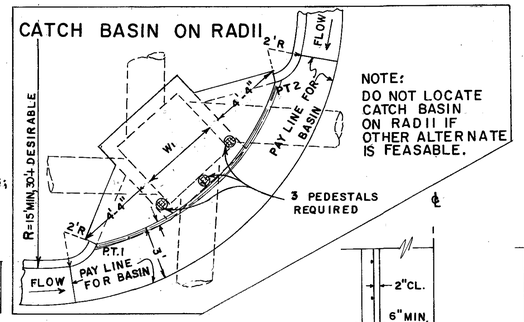
NOTE:
TYPICAL TREATMENT FOR SKEWED PIPES ARE: CIRCULAR PRECAST UNITS; PRECAST SWIVEL SECTIONS; PIPE ELBOWS; OR INCREASED BOX SIZES TO ACCOMODATE THE SKEWS.

ΔE = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

TYPICAL MIN. DIMENSIONS			
PIPE DIA.	H (MIN.)	W OR W1	ΔE
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: W & W1 DIMENSIONS DO NOT HAVE TO BE EQUAL. THE MIN. H & ΔE GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED IF CONDITIONS PERMIT WITH THE VARIED DIMENSION SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER.

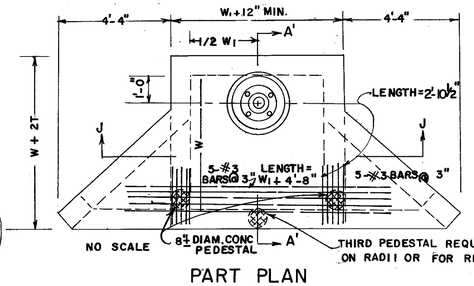
CATCH BASIN ON RADII



NOTE:
DO NOT LOCATE CATCH BASIN ON RADII IF OTHER ALTERNATE IS FEASABLE.

CATCH BASIN (WITH PROTRUDED BACK)

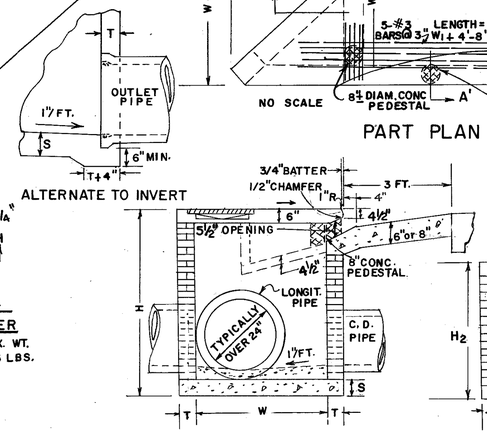
(TYPICAL FOR CATCH BASINS WITH LARGE LONGITUDINAL PIPES OR RECESSED BOX)



NOTE:
CATCH BASIN DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT FAR LEFT FOR NORMAL CATCH BASINS.

NO SCALE

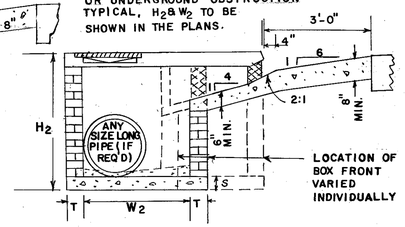
PART PLAN



SECTION A'-A'

(FOR LARGE LONGIT. PIPE) NO SCALE

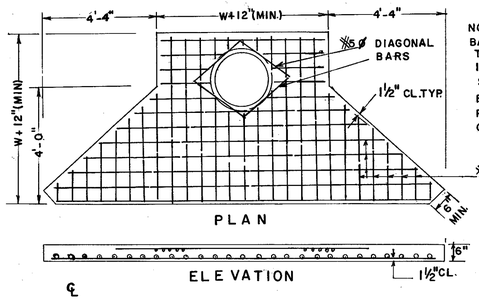
NOTE:
RECESSED BOX TO BE USED ONLY WHERE SPECIFIED IN THE PLANS. SHALLOW LONGITUDINAL PIPE OR UNDERGROUND OBSTRUCTION TYPICAL, H2 & W2 TO BE SHOWN IN THE PLANS.



SECTION A'-A'

(FOR RECESSED BOX)

DETAIL OF TOP REINFORCED CONCRETE SLAB



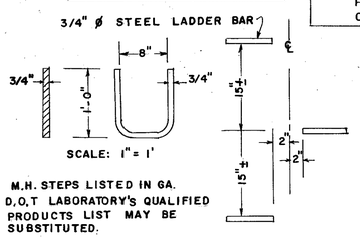
PLAN

ELEVATION

NOTE FOR ALL CATCH BASINS:
TOP SLAB MAY BE CAST-IN-PLACE OR PRECAST. IF SLAB IS CAST-IN-PLACE, BUILDER'S PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.

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

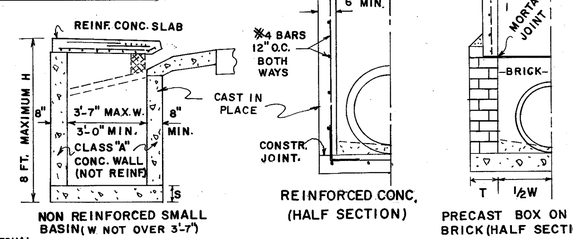
ARRANGEMENT OF LADDER BARS.



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.

CONSTRUCTION ALTERNATES



NON REINFORCED SMALL BASIN (W NOT OVER 3'-7")

REINFORCED CONC. (HALF SECTION)

PRECAST BOX ON BRICK (HALF SECTION)

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

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

STANDARD

CATCH BASINS

FOR USE WITH CURB (4" HT.) & GUTTER IN SAGS OR LOW POINTS

SCALE AS SHOWN

REV. & REDR. AUGUST, 1982

REV. & REDR. RMU
TRA. GME
CHK. RKC

(SUBMITTED) Floyd E. Hands
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Thomas D. Wade Jr.
STATE HIGHWAY ENGINEER

NUMBER 1034E

FORM EF3