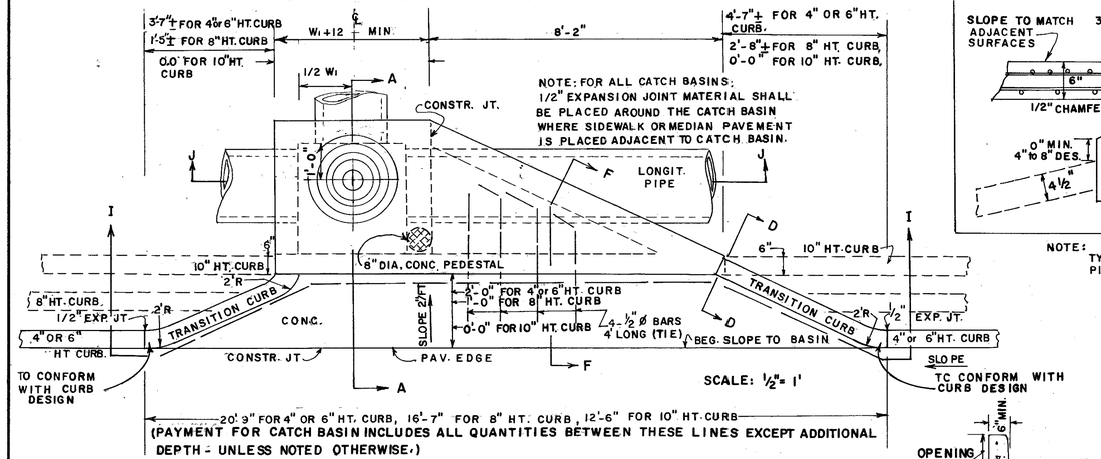
STATE	PROJECT NUMBER /	SHEET NO.	TOTAL SHEETS
GA.			

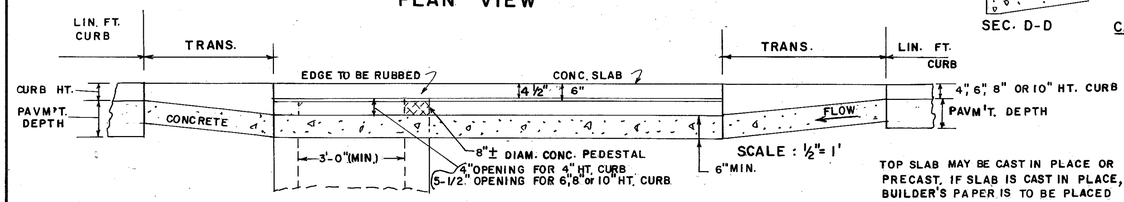
CATCH BASIN

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



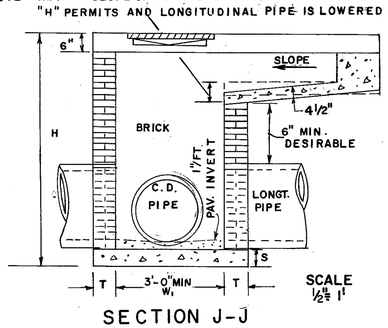
NOTE: FOR ALL CATCH BASINS; 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO CATCH BASIN.

PLAN VIEW

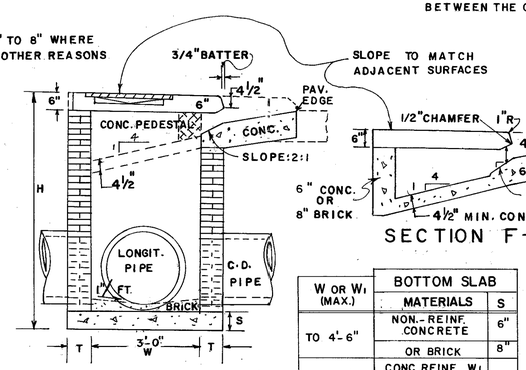


SECTION I-I

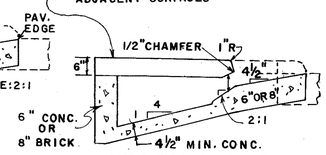
NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED BY 4" TO 8" WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS



SECTION J-J



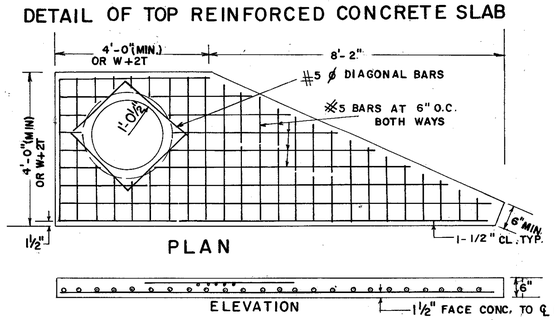
SECTION A-A



SECTION F-F

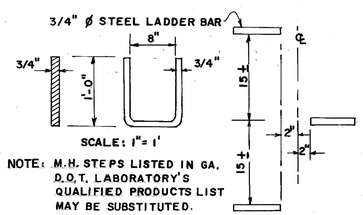
W OR W₁ (MAX.)	BOTTOM SLAB MATERIALS	S
TO 4'-6"	NON.-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W₁ #4 BARS 12" O.C. BOTH WAYS, 2" CL. FROM SLAB TOP	8"

DETAIL OF TOP REINFORCED CONCRETE SLAB



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

NOTE: FOR DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB SEE PART PLAN @ 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.

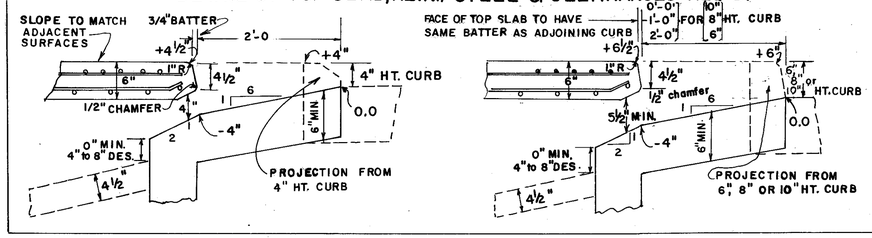
DETAIL OF LADDER BARS

TYPICAL MAX. DIMENSIONS			
PIPE DIA.	H (MIN)	W OR W₁	Δ E
12	4'-4"	3'-0"	3'-1"
15	4'-7"	3'-0"	3'-4"
18	4'-10"	3'-0"	3'-7"
24	5'-6"	3'-0"	4'-2"
30	6'-2"	3'-7"	4'-10"
36	6'-10"	4'-6"	5'-5"
42	7'-4"	5'-3"	5'-9"
48	8'-0"	6'-0"	6'-4"
54	8'-6"	6'-8"	6'-10"
60	9'-2"	7'-4"	7'-5"

NOTE: THE MIN. H & MIN. ΔE GIVEN IN THE 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 PLANS OR AS DIRECTED BY THE ENGINEER, W & W₁ DIMENSIONS DO NOT HAVE TO BE EQUAL.

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

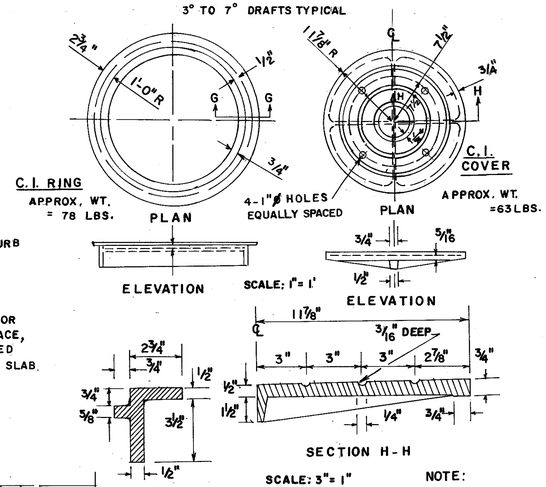
DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.

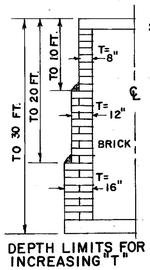


NOTE:
TYPICAL TREATMENTS FOR SKEWED PIPE ARE: CIRCULAR PRECAST UNITS; PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZES TO ACCOMODATE THE SKEW.

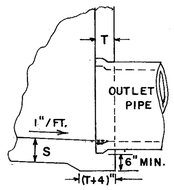
CASTING DETAILS

3° TO 7° DRAFTS TYPICAL



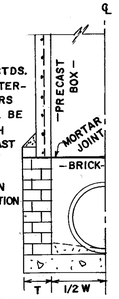


DEPTH LIMITS FOR INCREASING "T"

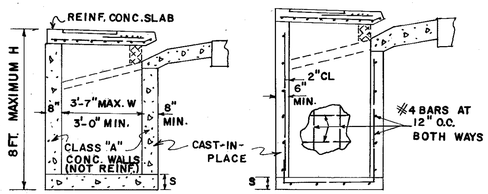


ALTERNATE TO INVERT

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.



PRECAST BOX ON BRICK (HALF SECTION)



NON REINFORCED SMALL BASIN (W₁ NOT OVER 3'-7")

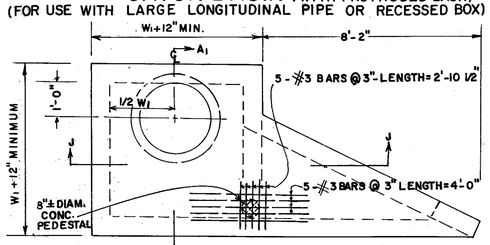
REINFORCED CONCRETE

CONSTRUCTION ALTERNATES

NOTE: DETAILS NOT SHOWN ABOVE FOR CONCRETE CATCH BASINS WILL BE SIMILAR TO THOSE SHOWN FOR BRICK CATCH BASINS.

CATCH BASIN (WITH PROTRUDED BACK)

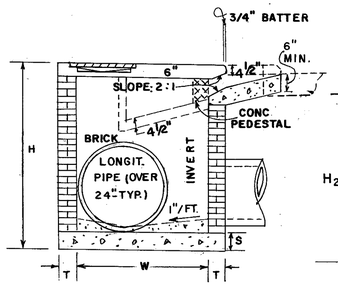
(FOR USE WITH LARGE LONGITUDINAL PIPE OR RECESSED BOX)



PART PLAN

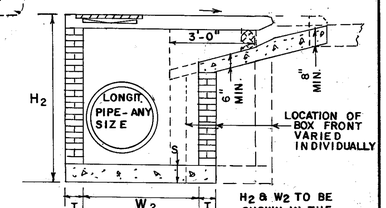
NOTE:
DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THESE AT FAR LEFT FOR NORMAL CATCH BASIN.

NOTE:
RECESSED BOX TO BE USED ONLY WHERE SPECIFIED IN THE PLANS.
LONGIT. PIPE OR UNDERGROUND OBSTRUCTION TYPICAL.



SECTION A'-A'

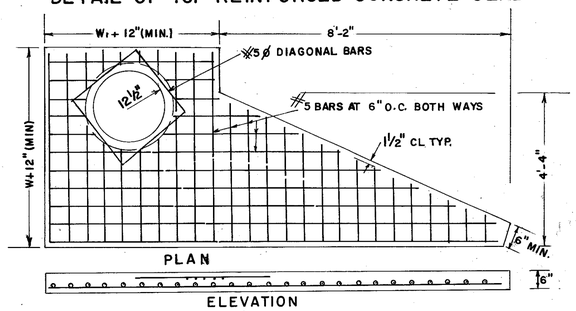
(FOR LARGE LONGITUDINAL PIPE)



SECTION A'-A'

(FOR RECESSED BOX)

DETAIL OF TOP REINFORCED CONCRETE SLAB



NOTE:
PIPE SIZES, NUMBER, ALIGNMENT, & 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.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

STANDARD CATCH BASINS

FOR USE WITH HEADER OR INTEGRAL CURBS 4, 6", 8" & 10" HEIGHTS

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. Wilson — STATE HIGHWAY ENGINEER

NUMBER 1033F

AF 21868

FORM EF3