

ADDENDUM NO. 1

DATE: November 16, 2018

TO: All Bidders

FROM: Penny Owens, Assistant Purchasing Agent

SUBJECT: Addendum No. 1 – Magnolia Avenue Streetscape Project – Phase II

PROJECT NO.: 16A-R-0609

BIDS TO BE OPENED: **November 21 2018, at 11:00:00 a.m. Eastern Time**

This addendum is being published to address the following items regarding the above-referenced Invitation to Bid. This addendum becomes a part of the Contract Documents and modifies the original specifications as noted.

Changes to the Contract Documents & Specifications:

Revised Bid Proposal

A revised bid proposal form is attached to this addendum. The following is a summary of the changes made:

- 1.) Item No. 10.30 was removed.
- 2.) The quantity for Item No. 26.10 has been revised.

Revised Sheets

Revised Sheet Number 2A is attached to this addendum. The following is a summary of the changes made:

- 1.) Item No. 10.30 was removed.
- 2.) The quantity for Item No. 26.10 has been revised.

Clarification of Contract Documents & Specifications:

The following are responses to questions received from potential bidders:

Questions

Question #1: Can you clarify the topsoil thickness to be used within the proposed median?

Response: Median topsoil depth is 15".

Question #2: Can you add a pay item for sawcutting concrete?

Response: The Estimated Quantities Sheet 2A has been revised to reflect removal of saw cut of asphalt (Item 10.30). No pay item will be added for sawcut of concrete. Saw cut of pavements will not be paid for separately under individual pay items and the price for sawcut should be included in the price to remove the various types of pavement which will be measured and paid for by the square yard.

Question #3: Can you verify that the quantity for stone backfill within the median is correct and includes backfill in the event trolley tracks are encountered?

Response: Yes, the quantity is correct. Stone backfill will be paid for under Item No. 303-01 per ton. Backfill for the removal of trolley tracks will be included in the cost for Item No. 3.16.

Question #4: Can you verify the gutter thickness required for the curb and gutter?

Response: Gutter thickness is to be 12" (D=12") per note 8 on Sheet 2B.

Question #5: Can you specify sizes for the Tulip Tree and Highbeam Overlap Oak?

Response: The trees shall be sized at 3" caliper @ 6" above finish grade.

Question #6: Can you provide core reports showing the existing asphalt depths within the project limits?

Response: Yes, core reports are attached to this addendum.

Question #7: Can you clarify what the "areas of asphalt to be removed (by others)" and "areas of concrete to be removed (by others)" shading represents on the Pavement Removal plans sheets?

Response: These areas of pavement are currently being removed under a separate KUB contract and this work will be complete by the start of the Phase 2 streetscape project. These areas are shown

for informational purposes only.

Question #8: Will this project require materials testing and third party inspections?

Response: The City has engaged a CEI consultant and they will be handling material testing.

Question #9: Will alternate manufacturers be considered for the site amenities to be included in this project?

Response: The City will not consider alternatives in this case as Phase I construction is underway and the furnishings need to be consistent between Phase I and Phase II.

Question #10: Can you provide a bid envelope cover page for this project?

Response: Yes, please find a revised bid packet with bid envelope cover page attached to this addendum.

Question #11: Could you share the calculations for each of the cross sections to show how the quantity of 300 CY was calculated for Item No. 4.20, Common Excavation?

Response: This is an allowance for common excavation as defined in Technical Specification 4.0.

Question #12: Will layout be performed by the City of Knoxville, the CEI firm, or the engineer?

Response: The City has engaged a CEI consultant and they will be handling survey layout.

Question #13: Can you confirm that crushed stone backfill for storm drainage is to be included in the cost of the storm drainage items and not paid separately?

Response: In accordance with City of Knoxville Technical Specification 20.0, the cost of the backfill is not a separate pay item and shall be included in the bid price of the storm drainage items.

Question #14: Is backfill to be included in item 3.16 (Removal of Subsurface Trolley Tracks) or paid separately?

Response: Backfill shall be included in the cost of removal.

Question #15: To avoid undermining the median curbs, should the curb height for the median curbs be revised to match the pavement section shown on sheet 2B?

Response: No.

Question #16: How will removal of existing lighting be coordinated between Phase I and Phase II and with whom, City of Knoxville or KUB? Can you provide the current Phase I project schedule for bidding purposes?

Response: Removal of existing lighting shall be coordinated with the City of Knoxville. Phase I of the streetscape project is scheduled to be complete in June 2019.

Question #17: Traffic control shifts will need to be coordinated with Phase I construction. Can you provide the current Phase I project schedule for bidding purposes?

Response: Traffic control shifts will need to be coordinated with the Phase I construction contractor. Phase I of the streetscape project is scheduled to be complete in June 2019.

Question #18: Are roof drain connections to be included in the 6" and 12" HDPE pipe items? If yes, can you provide details?

Response: Yes. The Contractor shall supply and install Fernco coupling to match up to existing roof drains at the right of way line. Cleanouts are not required at connection points. See notes regarding roof drains on the proposed layout sheets.

Question #19: Can you provide details or shop drawings of the proposed GDOT throated inlets being used for Phase I?

Response: GDOT has standard details for both precast and cast in place versions of the 1033F type basin. Details of the precast and cast in place version of the GDOT 1033F basin are included in this addendum.

Question #20: Has a joint sealant color been approved for Phase 1? See note 11 under Products on sheet H1.

Response: No, a joint sealant color is yet to be approved for Phase I.

Question #21: Has an approved equal coloring agent for the concrete been approved for Phase 1? See note 15 under Products on sheet H1.

Response: No, color shall remain as denoted in the plans.

Question #22: Have the manufactures for the benches, bike hoops, and trash receptacles listed on the plans been submitted for use on Phase 1 or have alternates been considered?

Response: The City will not consider alternatives in this case as Phase I construction is underway

and the furnishings need to be consistent between Phase I and Phase II.

Question #23: Originally a stamped pattern and a secondary color “antiquing agent” was to be used on the Magnolia Streetscapes project at the furnishing pads. Is this not the case for Phase II?

Response: No, an integral color with sealant is now being specified for Phases I and II as shown on the Phase II plans.

END OF ADDENDUM NO. 1



CITY OF KNOXVILLE

BID DOCUMENTS FOR

Name of Project: Magnolia Avenue Streetscape Project – Phase II

Project Numbers: 16A-R-0609

Bid Date & Time: November 21, 2018 @ 11:00 a.m.

BIDDER IDENTIFICATION:

Name: _____

Address: _____

License Number: _____ Expiration Date: _____

Classification: _____ License Limit: _____

SUBCONTRACTORS:

• Plumbing (if applicable): _____

License #: _____ Expiration Date: _____

Classification: _____

• HVAC (if applicable): _____

License #: _____ Expiration Date: _____

Classification: _____

• Electrical (if applicable): _____

License #: _____ Expiration Date: _____

Classification: _____

• Masonry (if applicable): _____

License #: _____ Expiration Date: _____

Classification: _____

_____ has complied with the instructions to bidders and has fully completed all bid forms without any qualifying statement.

INFORMATION FOR BIDDERS

Bids will be received by the City of Knoxville, Tennessee (Herein called the "Owner") by the Purchasing Division of the City of Knoxville, acting for the Mayor, in Room 667-674, City County Building, 400 Main Avenue, Knoxville, Tennessee, 37902 until 11:00 A.M. on Wednesday, November 21, 2018, and then at said office publicly opened and read aloud.

Each Bid must be submitted in a sealed envelope, addressed to the Purchasing Division for the City of Knoxville; Room 667-674, City County Building; 400 Main Street; Knoxville, Tennessee 37902. If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope addressed to the Owner.

No bid will be received or accepted after the above-specified time for the opening of bids. Bids that arrive late due to the fault of U.S. Postal Service, United Parcel Services, DHL, FEDEX, any delivery/courier service, or any other carrier of any sort are still considered late and shall not be accepted by the City. Such bids shall remain unopened and will be returned to the submitting entity upon request.

All Bids must be made on the required bid form supplied with the Contract documents. All blank spaces for bid prices must be filled in, in ink or typewritten, and the bid form must be fully completed and executed when submitted. Only one copy of the bid form is required.

All Bidders must be licensed contractors as required by the Contractors Licensing Act of 1994, and all Acts amendatory thereof and must have an HRA - Highway, Railroad and Airport Construction classification. Bidder's name, address, license number, date of expiration of license, and that part of the license classification applying to the Bid must be placed on the sealed envelope containing the bid. Prior to submitting their bids, bidders are to be registered with the Purchasing Division through the City of Knoxville's online Vendor Registration system. Instructions for registering on-line are available at www.knoxvilletn.gov/purchasing. **Bid submissions from un-registered bidders may be rejected.**

If applicable, sub-contractors for electrical work, plumbing work, and HVAC must be shown on the outside of the envelope along with their respective license numbers, expiration date, and classification; where the total cost of the masonry portion of the project exceeds \$100,000 in materials and labor, the license number, expiration date, and classification must be listed on the outside of the envelope for the masonry sub-contractor. The envelope must be plainly marked, "Bid on (project) to be opened on (date) at (time)," otherwise the bid cannot be opened or considered. Any bid envelope which contains the listing of more than one contractor in each classification shall be considered in violation and the bid shall not be opened or considered. These requirements are detailed in Tennessee Code Annotated § 62-6-119 (B), the State of Tennessee, Department of Commerce and Insurance Board for licensing contractors can provide additional information if required.

Attention is called to Chapter 2, Article VIII (Procurement Code) of the Knoxville City Code, which requires that prevailing wages shall be paid workmen on all buildings and construction projects wherein any City funds are expended for such purposes. The Contractor agrees to comply with and to post the prevailing wage laws as provided in the "Prevailing Wage Act of 1975," Tennessee Code Annotated § 12-4-401 et seq. For the purpose of this contract the prevailing wage rates shall be the wage rate incorporated in these documents. The City reserves the right to demand the payroll records of Contractor at any time to monitor compliance with the wage rate/discrimination clause(s). Failure by Contractor to provide City with said records within ten working days of the written notice shall constitute a breach of this agreement.

Any Bid may be withdrawn prior to the above scheduled time for the opening of the Bids or authorized postponement thereof. Any Bid received after the time and date specified shall not be considered. No Bidder may withdraw a Bid within ninety (90) days after the actual date of the opening thereof. Should there be reasons why the Contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the Owner and the Bidder.

Bidders must satisfy themselves of the accuracy of the estimated quantities in the Bid Schedule by examination of the site and a review of the drawings and Specifications including addenda. After Bids have been submitted, the Bidder shall not assert that there was a misunderstanding concerning the quantities of work or of the nature of the work to be done. When discrepancies occur between unit prices and total prices on the Bid Schedule, the total price submitted for each pay item will be maintained and corrections will be made to the unit prices.

The Contract documents contain the provisions required for the construction of the project. Information obtained from an officer, agent, or employee of the Owner or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the Contract.

Inquiries pertaining to this ITB shall be made in writing and be in the hands of the Purchasing Division by the close of the business day on Wednesday, November 14, 2018. Questions can be submitted by letter, fax (865-215-2277), or email to the Assistant Purchasing Agent of the City of Knoxville (powens@knoxvilletn.gov) or City County Building; 400 Main Street; Room 667-674; P.O. Box 1631; Knoxville, TN 37901. The City is not responsible for oral interpretations given by any City employee, representative, or others; and no interpretation of the meaning of the plans, specifications, or other pre-bid documents will be made to any bidder orally. The issuance of written addenda is the only official method whereby interpretation, clarification, or additional information can be given. To be given consideration, such requests/questions must be received at least five (5) business days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be posted to the City's website at www.knoxvilletn.gov/bids. Submitting organizations are strongly encouraged to view this website often to see if addenda are posted. Failure of any bidder to receive any such addendum or interpretation shall not relieve such Bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the Contract Documents.

All Bids must be signed in full by the Bidder or Bidders in their business name or style and must show his or their complete address. If the Bidder be a firm or a corporation, the signature shall be a duly authorized member of the firm or officer of the corporation stating his official title or position with such firm or corporation, with the corporate seal attached, attested to by the proper officer. If the Bidder be a firm, the full names and addresses of all members of the firm must be shown. If the Bidder be a corporation, the name of the state under the laws of which it is incorporated must be shown. If the Bid is signed in the name of an agent, legal evidence of his authority to bind his principals must accompany the papers.

All Bids exceeding \$100,000 must be accompanied by a Bidder's Bond equal to 5 percent of the bid price, executed by the Bidder and a surety company authorized to transact business in the State of Tennessee or by a cashier's or certified check on a duly authorized bank made payable to the City of Knoxville, as a guarantee that, if the Bid is accepted, the required Contract will be executed and the required Performance and Payment Bonds furnished. As soon as the bid prices have been compared, the Owner will return the bonds of all except the three lowest responsible Bidders. When the Agreement is executed, the bonds of the two (2) remaining unsuccessful Bidders will be returned. The Bid Bond of the successful Bidder will be retained until the Payment Bond and Performance Bond have been executed and approved, after which it will be returned.

A Performance Bond and a Payment Bond, each in the amount of one hundred percent (100%) of the Contract price, with a corporate surety approved by the Owner, will be required for the faithful performance of the Contract.

Attorneys-in-fact who sign Bid Bonds and Performance Bonds must file with each bond a certified and effective dated copy of their power of attorney.

The party to whom the Contract is awarded will be required to execute the Agreement and obtain the Performance Bond and Payment Bond within fifteen (15) days from the date when notice of award is delivered to the Bidder. The notice of award shall be accompanied by the necessary Agreement and bond forms. In case of failure of the Bidder to execute the Agreement, the Owner may at his option consider the Bidder in default, in which case the Bid Bond accompanying the proposal shall become the property of the Owner.

The Owner within ninety (90) calendar days of receipt of acceptable Performance Bond, Payment Bond, and Agreement signed by the party to whom the Agreement was awarded shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the Owner not execute the Agreement within such period, the Bidder may by written notice withdraw his signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the Owner.

Notice to proceed shall be issued within ninety (90) days of the execution of the Agreement by the Owner. Should there be reasons why the notice to proceed cannot be issued within such period, the time may be extended by mutual agreement between the Owner and Contractor. If the Notice to Proceed has not been issued within the ninety (90) day period or within the period mutually agreed upon, the Contractor may terminate the Agreement without further liability on the part of either party.

The Owner may make such investigations as he deems necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Owner all such information and data for this purpose as the owner may request. The Owner reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligations of the Agreement and to complete the work contemplated therein.

Award will be made as a whole to one Bidder. By execution and delivery of a bid submission, the bidder agrees that any additional terms and conditions, whether submitted to the City purposely or inadvertently, shall have no force or effect.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the Contract throughout. Attention is called to Section 2-1016 et seq. of the Knoxville City Code, which requires that prevailing wages shall be paid workmen on all buildings and construction projects wherein any City funds are expended for such purposes. The Contractor agrees to comply with and to post the prevailing wage laws as provided in the "Prevailing Wage Act of 1975," Tennessee Code Annotated 12-4-401 et seq.

Each Bidder is responsible for inspecting the site and for reading and being thoroughly familiar with the Contract documents. The failure or omission of any Bidder to do any of the foregoing shall in no way relieve any Bidder from any obligation in respect to his Bid.

Further, the Bidder agrees to abide by the requirements under Executive Order No. 11246, as amended, including specifically the provisions of the equal opportunity clause set forth in the General Conditions. Attention is also called to Section 15-26 of the Knoxville City Code, requiring and defining a non-discrimination clause which shall be contained in all Contracts with the City of Knoxville wherein City funds are expended for the purpose of construction, alteration, repair or demolition of any building, street, alley or sewer, or for the providing of any services, and all leases, franchises or concession through which property of the City of Knoxville is to be used.

All bidders must comply with Title VI of the Civil Rights Act of 1964, as codified in 42 U.S.C. 2000 (d). The successful bidder must follow Title VI guidelines in all areas including hiring practices, operating facilities, insurance, and wages. The City of Knoxville reserves the right to review all compliance records by a contract compliance officer designated by the City. The Drug Free Workplace Affidavit form must be submitted with the bid.

The Drug Free Workplace Affidavit, the Non-Collusion Affidavit, the Iran Divestment Act Form, and the Subcontractor/Consultant Statement from the Diversity Business Enterprise Program packet, fully executed, must be submitted with the bid.

The Contractor shall maintain such insurance as detailed in the General Conditions section of this ITB as will protect him and/or the City from all claims including Workman's Compensation and will save harmless the City from all claims and damages which may arise out of or result from the Contractor's operations under the Contract, whether such operations be by himself or by any subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Certificates of insurance acceptable to the City shall be filed with the City prior to commencement of the work.

The Contract will be awarded with reasonable promptness by written notice to the responsive and responsible Bidder whose Bid is determined to contain the lowest bid price or lowest evaluated bid price in accordance with Section 2-862 of the Knoxville City Code.

The City may waive technicalities concerning bid documents and may follow up with individual organizations after the bid opening to obtain such documents when it is in the best interests of the City. The City of Knoxville reserves the right to waive any informalities or to reject any or all bids, to evaluate bids, and to accept any bid which, in its opinion, may be in the best interest of the City.

BID PROPOSAL
CITY OF KNOXVILLE, TENNESSEE

Magnolia Avenue Streetscape - Phase II
Project No. 16A-R-0609

TO THE PURCHASING AGENT
CITY OF KNOXVILLE, TENNESSEE

_____ hereby propose(s) to furnish all material, labor, and appliances and do all work required to complete the Contract for the Magnolia Avenue Streetscape - Phase II Project, Project No. 16A-R-0609, located in the City of Knoxville, Tennessee, in a workmanlike manner and in accordance with the plans of the Department of Engineering and specifications herewith attached.

Bidder further agrees that in case of failure to sign a delivered contract within thirty (30) days, the certified check or bid bond accompanying this bid and the proceeds thereof shall be the property of the City of Knoxville if the City chooses to retain said bid bond or check.

BID SCHEDULE

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
1.10	Mobilization of Forces, Supplies and Equipment (Maximum Amount = \$14,000 + 1% of Contract Amount)	LS	1		
2.20	Tree Removal	LS	1		
3.10	Removal of Pipe	LF	845		
3.11	Removal of Rigid Pavement, Sidewalk, Etc.	SY	3,047		
3.12	Removal of Vehicular Concrete	SY	3,373		
3.13	Removal of Asphalt Pavement	SY	1,924		
3.14	Removal of Curb	LF	2,680		
3.15	Removal of Curb and Gutter	LF	213		
3.16	Removal of Subsurface Trolley Tracks	LF	756		
3.17	Removal of Structures and Obstructions	LS	1		
4.20	Common Excavation	CY	300		
5.30	Maintenance Stone	TON	1,000		
12.46	4" Nonmountable Concrete Curb	LF	36		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
13.10	Concrete Sidewalks	SF	17,591		
13.12	4" Thick Concrete Paving (Colored)	SF	995		
13.13	8" Thick Concrete Paving (Colored)	SF	170		
13.20	Concrete Driveways	SF	3,193		
14.10	Flowable Fill (Flowable Mortar)	CY	6		
20.07	6" HDPE	LF	349		
20.08	12" HDPE	LF	1,058		
20.14	18" R.C.P.	LF	799		
20.16	24" R.C.P.	LF	186		
20.24	48" R.C.P.	LF	198		
22.00	NO. 3 Manhole, 4' - 8'	EA	1		
22.05	NO. 1 Junction Box	EA	1		
22.12.2	NO. 12 Catch Basin, 4' - 8' Depth w/Bicycle Grate	EA	16		
22.12.6	GDOT Throated Inlet 1033F	EA	2		
22.12.7	Temporary Grate	EA	2		
22.40.3	Adjustment of Existing Manhole	EA	1		
22.40.4	Conversion of Existing Manhole to Junction Box	EA	1		
26.10	Topsoil	CY	460		
26.20	Planting Mix - Amendments	CY	55		
26.30	Shrubs/Groundcover	SF	12,770		
26.60	Large Shade Trees	EA	29		
26.70	SOD	SF	7,070		
26.80	Hardwood Mulch	CY	125		
26.90	Stone Mulch	CY	4		
31.10	Erosion Control	LS	1		
31.15	Tree Protection Fencing	LF	30		
34.10	Construction Area Traffic Control	LS	1		
38.10	Cold Planing of Asphalt Pavement	TON	605		
42.00	Tactile Warning System, Cast In Place	EA	12		
63.10	Signage	LS	1		
70.01	Lighting Pole Assembly - Street Lighting	EA	8		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
70.02	Lighting Pole Assembly - Pedestrian Lighting	EA	25		
70.03	Street Lighting Assembly, Pole & Arm by Others	EA	2		
70.04	In-Grade Lighting Fixtures	EA	9		
70.06	LTG Branch Wiring, Under Sidewalk	LF	6,550		
70.07	LTG Branch Fittings	EA	36		
70.11	Pull Boxes	EA	13		
70.12	Concrete Encasement for Duct Banks	LF	311		
70.13	2" Electrical Conduit	LF	5,635		
71.01	Benches	EA	12		
71.03	Trash Receptacles	EA	3		
71.05	Bike Loops	EA	9		
303-01	Mineral Aggregate, Type A Base, Grading D	TON	2,546		
307-02.01	Asphalt Concrete Mix (PG70-22) (BPMB-HM) Grading A	TON	96		
307-02.06	Asphalt Concrete Mix (PG70-22) (BPMB-HM) Grading B	TON	1,735		
307-02.08	Asphalt Concrete Mix (PG70-22) (BPMB-HM) Grading B-M2	TON	63		
402-01	Bituminous Material for Prime Coat (PC)	TON	4		
403-01	Bituminous Material for Tack Coat (TC)	TON	7		
411-02.10	ACS Mix (PG70-22) Grading D	TON	1,204		
411-33.34	Stamped Asphalt Pattern	SF	845		
411-33.35	Stamped Asphalt (Smooth)	SF	1,260		
702-01	Concrete Curb	LF	1,509		
702-03	Concrete Combined Curb & Gutter	CY	316		
713-16.20	Sign (Street Name Sign)	EA	4		
716-02.03	Plastic Pavement Marking (Cross-Walk)	LF	285		
716-02.04	Plastic Pavement Marking (Channelization Striping)	SY	225		
716-02.05	Plastic Pavement Marking (Stop Line)	LF	155		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
716-02.06	Plastic Pavement Marking (Turn Lane Arrow)	EA	2		
716-04.10	Plastic Pavement Marking (Handicap Symbol)	EA	3		
716-04.13	Plastic Pavement Marking (Bikelane Symbol & Arrow)	EA	11		
716-05.01	Painted Pavement Marking (4" Line)	LM	2.7		
716-05.03	Painted Pavement Marking (Cross-Walk)	LF	155		
716-12.01	Enhanced Flatline Thermo Pvmt Mrkng (4in Line)	LM	0.9		
716-12.02	Enhanced Flatline Thermo Pvmt Mrkng (6in Line)	LM	0.4		
716-12.05	Enhanced Flatline Termo Pvmt Mrkng (6in Dotted Line)	LF	65		
725-02.79	Fiber Optic Closure (48F Enclosure)	EA	1		
715-03.09	Ethernet Switch (Type A)	EA	1		
725-22.25	Conduit Bank (2" HDPE)	LF	2,215		
725-23.02	Fiber Optic Testing	LS	1		
725-23.12	Fiber Optic Cable (48F)	LF	1,153		
725-23.21	Fiber Optic Drop Cable (12F)	LF	50		
725-23.28	Fiber Optic Splice Fusion	EA	48		
725-24.61	Training	LS	1		
730-01.02	Removal of Signal Equipment	EA	1		
730-02.09	Signal Head Assembly (130 with Backplate)	EA	8		
730-03.21	Install Pull Box (Type B)	EA	4		
730-03.23	Install Pull Box (Fiber Optic - Type A)	EA	3		
730-03.24	Install Pull Box (Fiber Optic - Type B)	EA	1		
730-03.33	Fiber Optic Splice Fusion	EA	8		
730-05.01	Electrical Service Connection	EA	1		
730-05.02	Service Cable (2 Conductor, #6 AWG)	LF	46		
730-08.03	Signal Cable - 7 Conductor (14 AWG Stranded)	LF	235		

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
730-08.05	Signal Cable - 12 Conductor (14 AWG Stranded)	LF	467		
730-08.10	Signal Cable - (IMSA 50-2, Shielded 2 Pair 14 AWG)	LF	1,027		
730-08.11	Signal Cable (IMSA 20-1, 7 Conductor 14 AWG)	LF	1,067		
730-12.02	Conduit 2" Diameter (PVC)	LF	956		
730-12.03	Conduit 3" Diameter (PVC)	LF	72		
730-12.40	Encased Conduit (Conduit Bank 2" PVC)	LF	926		
730-13.07	Vehicle Detector (Sonem 2000 Priority Control)	EA	4		
730-13.08	Vehicle Detector (Wavetronix)	EA	4		
730-15.09	Cabinet (Sixteen Phase Base Mounted)	EA	1		
730-16.14	Controller (Sixteen Phase Actuated Naztec ATC)	EA	1		
730-23.30	Pedestal Pole (10')	EA	6		
730-23.88	Cantilever Signal Support (1 ARM @ 45')	EA	2		
730-23.98	Cantilever Signal Support (1 ARM @ 55')	EA	2		
730-26.06	Pedestrian Pushbutton Post	EA	1		
730-26.11	Countdown Ped Sgnl Head w/Audible Push Button & 15 in Sign	EA	8		
730-35.06	Battery Back-Up and Power Conditioner	EA	1		
730-40.02	Temporary Traffic Signal System	LS	1		
TOTAL BID					

TOTAL BID (In Words):

In submitting this bid it is understood that the right is reserved by the City of Knoxville to reject any and all bids. If written notice of the acceptance of this bid is mailed, telegraphed or delivered to the undersigned within ninety (90) days after the opening thereof, or at any time thereafter before this bid is withdrawn, the undersigned agrees to execute and deliver a contract in the prescribed form and furnish the required bond within fifteen (15) days after the contract is presented to him for signature.

Security of the sum of _____ Dollars
(\$ _____), in the form of _____, is submitted herewith in accordance with the Specifications.

The bidder certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The bidder agrees that a breach of this certification will be a violation of the Equal Opportunity clause in any contract resulting from acceptance of this bid. As used in this certification, the term "segregated facilities" means any waiting room, work areas, rest rooms and wash rooms, restaurants and other eating areas, time-clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment area, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The bidder agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause, and that he will retain such certifications in his files.

Bidder hereby agrees to commence work under this contract on or before a date to be specified in the Notice to Proceed and to fully complete the Project within two hundred and forty (240) calendar days thereafter. Bidder further agrees to pay liquidated damages in the sum of one thousand dollars (\$1,000.00) for each consecutive calendar day thereafter as provided in the General Conditions.

Bidder acknowledges receipt of the following addendum:

The Bidder is prepared to submit a financial and experience statement upon request.

Attached hereto is an affidavit in proof that the undersigned has not entered into any collusion with any person in respect to this proposal or any other proposal. Also attached is a Statement of Bidder's Qualifications.

Date: _____, 20____ _____
Name of Bidder

State License No: _____ By

Tax ID Number: _____ Title

Official Address (including Zip Code):

Incorporated under the laws of the State of

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned,

As Principal, and

as Surety, are hereby held and firmly bound unto

_____ as Owner in the penal sum of

_____ for the payment of which, well

and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed this _____ day of _____, 20_____.

The condition of the above obligation is such that whereas the Principal has submitted to

_____ a certain Bid, attached hereto and hereby made a part hereof to enter into a contract in writing for the

NOW, THEREFORE,

- (a) If said Bid shall be rejected, or in the alternate,
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such extension.

IN WITNESS, THEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

_____(L.S.)
Principal

Surety

SEAL

By _____

DRUG-FREE WORKPLACE AFFIDAVIT

State of

County of

_____, being duly sworn, deposes, and says that:

- (1) He/She is a principal officer of _____, the firm that has submitted the attached Proposal, his or her title being _____ of the firm; and
- (2) He/She has personal knowledge of the policies of the above-named firm with respect to the maintenance of a drug-free workplace; and
- (3) He/She certifies that all provisions and requirements of the Tennessee Drug-Free Workplace Program, as established by Tenn. Code Ann. §§ 50-9-100 et. seq., have been met and implemented.

(Signed)

(Title)

Subscribed and sworn to before me this ____ day of _____, _____.

Title

My Commission expires

IRAN DIVESTMENT ACT

Certification of Noninclusion

NOTICE: Pursuant to the Iran Divestment Act of 2014, Tenn. Code Ann. § 12-12-106 requires the State of Tennessee Chief Procurement Officer to publish, using creditable information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105. Inclusion on this list makes a person ineligible to contract with the state of Tennessee; if a person ceases its engagement in investment activities in Iran, it may be removed from the list. A list of entities ineligible to contract in the State of Tennessee Department of General Services or any political subdivision of the State may be found here:

https://www.tn.gov/content/dam/tn/generalservices/documents/cpo/cpo-library/public-information-library/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106_Iran_Divestment_Act_updated_7.7.17.pdf

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to T.C.A. § 12-12-106.

Vendor Name (Printed)	Address
By (Authorized Signature)	Date Executed
Printed Name and Title of Person Signing	

NOTARY PUBLIC:

Subscribed and sworn to before me this _____ day of _____,
2_____.

My commission expires: _____

Subcontractor/Consultant Statement
(TO BE SUBMITTED IN THE BID/PROPOSAL ENVELOPE)

We _____ do certify that on the
(Bidder/Proposer Company Name)

_____ (Project Name)
(\$ _____)
(Amount of Bid)

Please select one:

Option A: Intent to subcontract using Diverse Businesses

A Diversity business will be employed as subcontractor(s), vendor(s), supplier(s), or professional service(s). The estimated **dollar value** of the amount that we plan to pay is:

\$ _____.
Estimated Amount of Subcontracted Service

Diversity Business Enterprise Utilization			
Description of Work/Project	Amount	Diverse Classification (MOB, WOB, SB, SDOV)	Name of Diverse Business

Option B: Intent to perform work “without” using Diverse Businesses

We hereby certify that it is our intent to perform 100 % of the work required for the contract, work will be completed without subcontracting, or we plan to subcontract with non-Diverse companies.

DATE: _____ COMPANY NAME: _____

SUBMITTED BY: _____ TITLE: _____
(Authorized Representative)

ADDRESS: _____

CITY/STATE/ZIP CODE: _____

TELEPHONE NO: _____

ASPHALT CORE REPORT
CITY OF KNOXVILLE
DEPARTMENT OF ENGINEERING

JOB NAME: East Magnolia AVE **COMPILED BY:** RTW/WM **DATE:** 29-Aug-2016

Distance from Intersection: Taken 75' West of Jessamine ST, in the center turn lane.

Distance from Curb: Taken in center turn lane., equal distance from North & South curbs.

Type of Curb and Height: Concrete curb & gutter, 8".

Description of Sample: See sketch. Note, reason N/A is listed for the base as the asphalt was thicker then the core machine could drill.

1 1/2"
Surface

11.5" +
Binder

N/A

Distance from Intersection: Taken 75' West of Winona ST, in the center turn lane.

Distance from Curb: Taken in center turn lane., equal distance from North & South curbs.

Type of Curb and Height: Concrete curb & gutter, 8".

Description of Sample: See sketch.

7 1/2"
Surface

Concrete

Distance from Intersection: Taken 50' West of Holly ST, in the center turn lane.

Distance from Curb: Taken in center turn lane., equal distance from North & South curbs.

Type of Curb and Height: Concrete curb & gutter, 8".

Description of Sample: See sketch.

7"
Surface

Concrete

ASPHALT CORE REPORT
CITY OF KNOXVILLE
DEPARTMENT OF ENGINEERING

JOB NAME: East Magnolia AVE **COMPILED BY:** RTW/WM **DATE:** 29-Aug-2016

Distance from Intersection: Taken 75' East of N. Bertrand ST, in the center turn lane.

Distance from Curb: Taken in center turn lane., equal distance from North & South curbs.

Type of Curb and Height: Concrete curb & gutter, 8".

Description of Sample: See sketch.



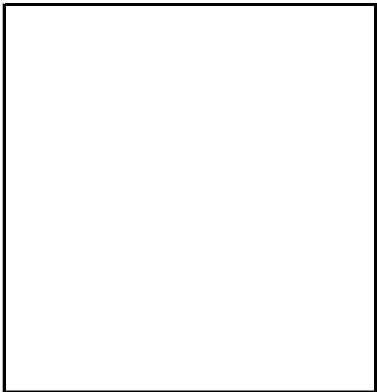
Concrete

Distance from Intersection: _____

Distance from Curb: _____

Type of Curb and Height: _____

Description of Sample: _____

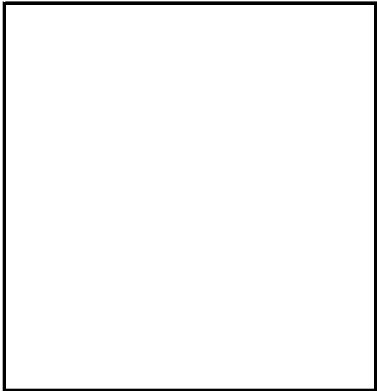


Distance from Intersection: _____

Distance from Curb: _____

Type of Curb and Height: _____

Description of Sample: _____



ASPHALT CORE REPORT
CITY OF KNOXVILLE
DEPARTMENT OF ENGINEERING

JOB NAME: E. Magnolia AVE **COMPILED BY:** RTW/RTW **DATE:** 9-Mar-2017

1

Distance from Intersection: 25' East of Jessamine ST, in
outside, Eastbound lane.

Distance from Curb: 4' North of white line.

Type of Curb and Height: No curb present.

Description of Sample: See sketch.

7.5"
SURFACE

0.5"
SHEET

CONCRETE

2

Distance from Intersection: 25' East of Jessamine ST, in
outside, Eastbound lane.

Distance from Curb: 4' South of white line, 10' South of
curb.

Type of Curb and Height: Concrete, 4" high.

Description of Sample: See sketch.

7.5"
SURFACE

0.5"
SHEET

CONCRETE

3

Distance from Intersection: 25' West of Myrtle ST, in
outside, Eastbound lane.

Distance from Curb: 4' North of white line, 14' North of
curb.

Type of Curb and Height: Concrete, 6" high.

Description of Sample: See sketch.

12"
SURFACE

CONCRETE

ASPHALT CORE REPORT
CITY OF KNOXVILLE
DEPARTMENT OF ENGINEERING

File Name:
Magnolia AVE, E (03-09-2017).pdf

JOB NAME: E. Magnolia AVE COMPILED BY: RTW/RTW DATE: 9-Mar-2017

4

Distance from Intersection: 25' West of Myrtle ST, in
outside, Westbound lane.

Distance from Curb: 4' South of white line, 16' South of
curb.

Type of Curb and Height: Concrete, 8" high.

Description of Sample: See sketch.



CONCRETE

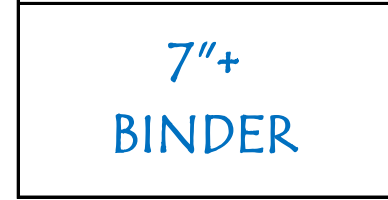
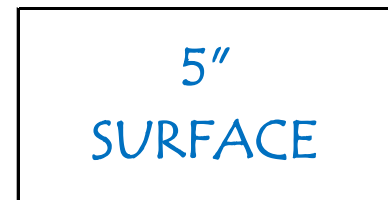
5

Distance from Intersection: 25' West of N. Bertrand ST, in
outside, Eastbound lane.

Distance from Curb: 4' North of white line, 16' North of
curb.

Type of Curb and Height: Concrete, 6" high.

Description of Sample: Asphalt thicker than core machine
could drill.



N/A

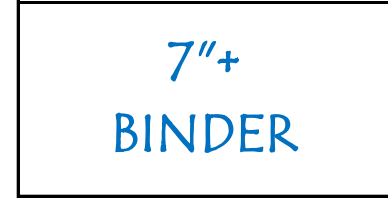
6

Distance from Intersection: 25' West of N. Bertrand ST, in
outside, Westbound lane.

Distance from Curb: 4' South of white line, 16' South of
curb.

Type of Curb and Height: Concrete, 6" high.

Description of Sample: Asphalt thicker than core machine
could drill.

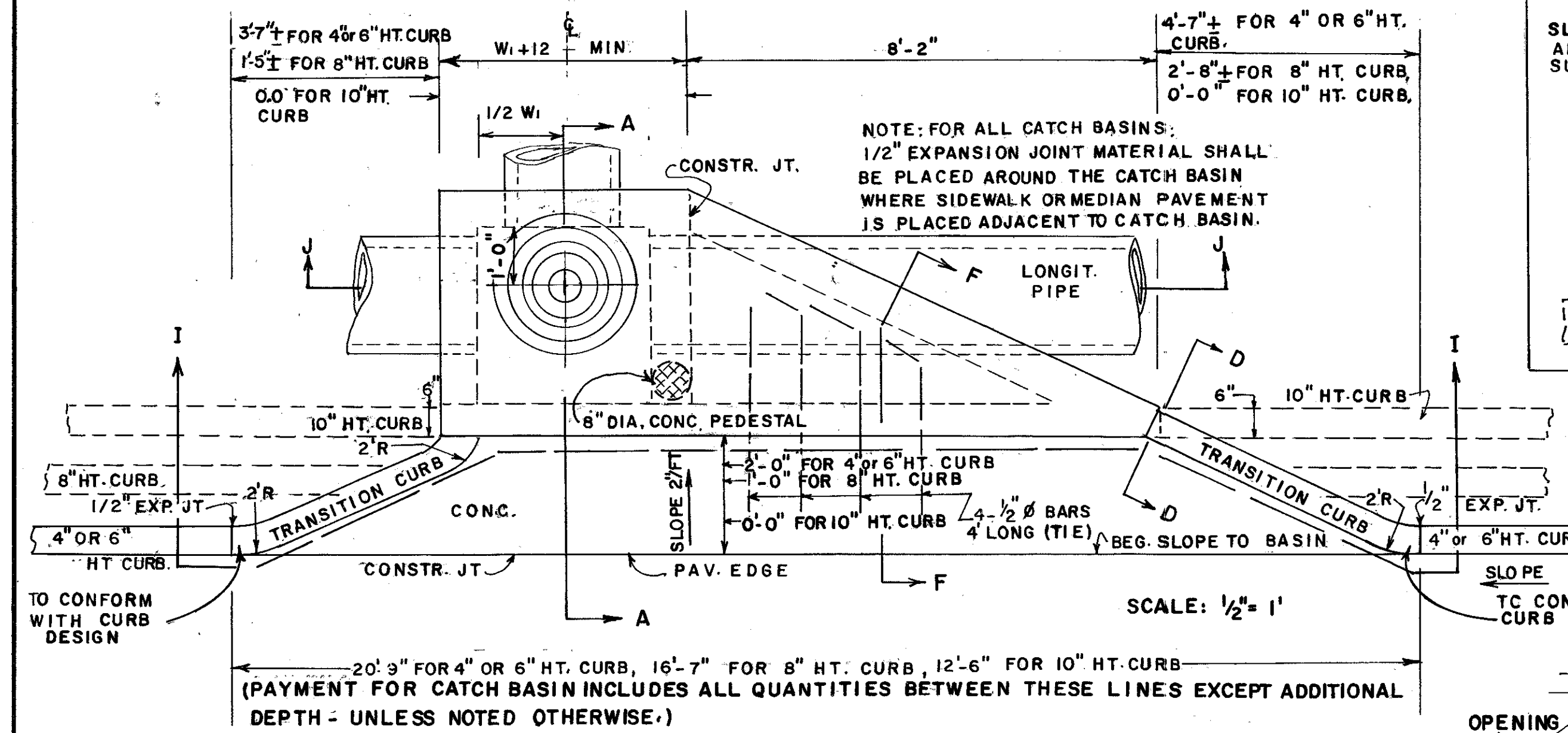


N/A

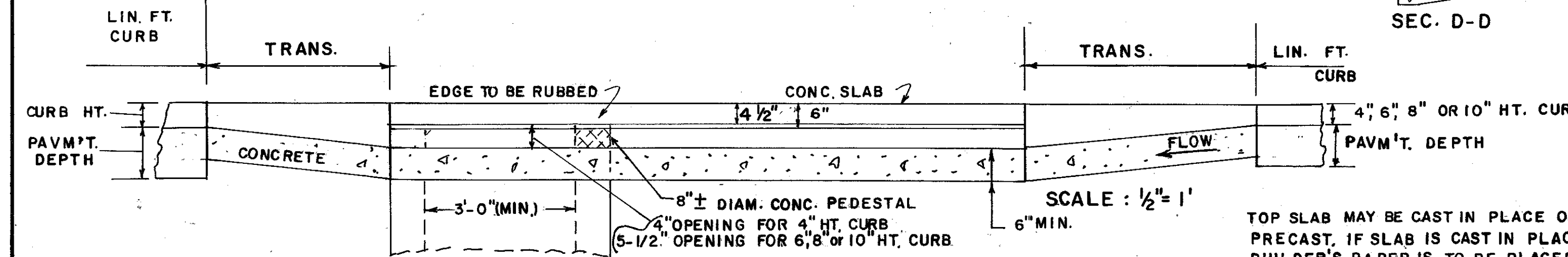
STATE	PROJECT NUMBER / SHEET NO.	TOTAL SHEETS
GA		

CATCH BASIN

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

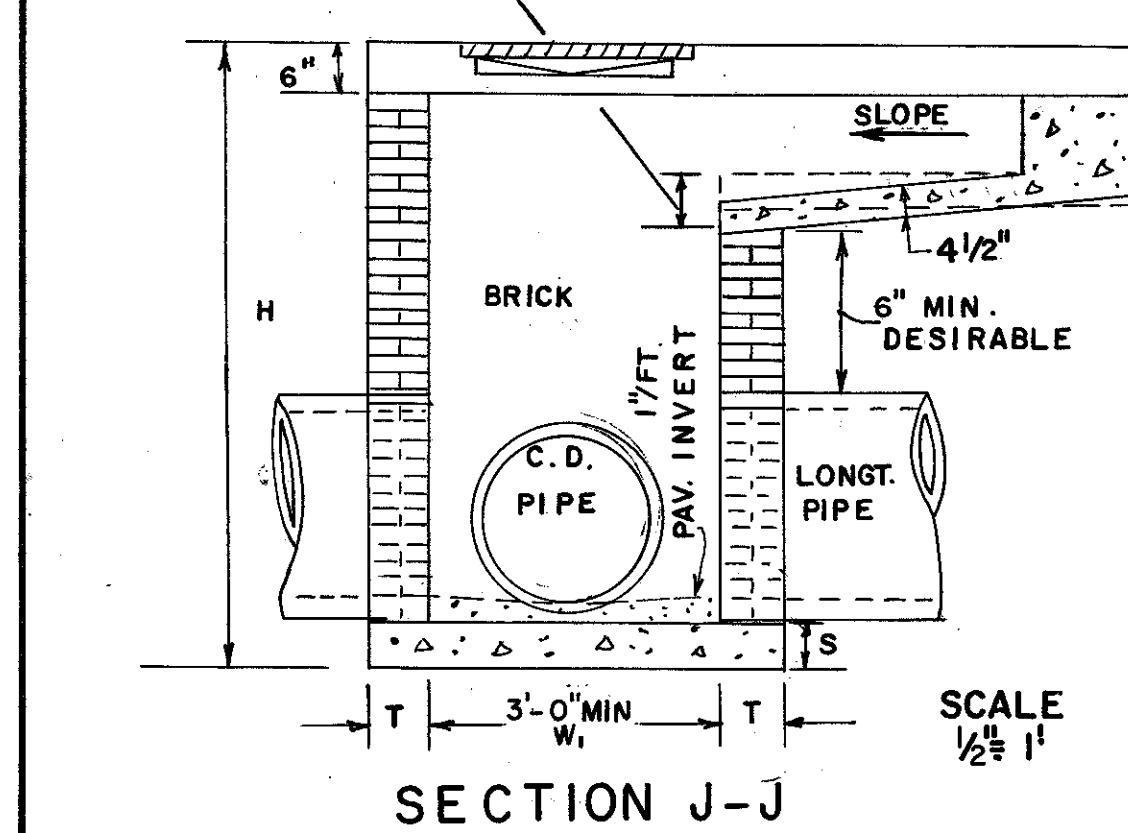


PLAN VIEW

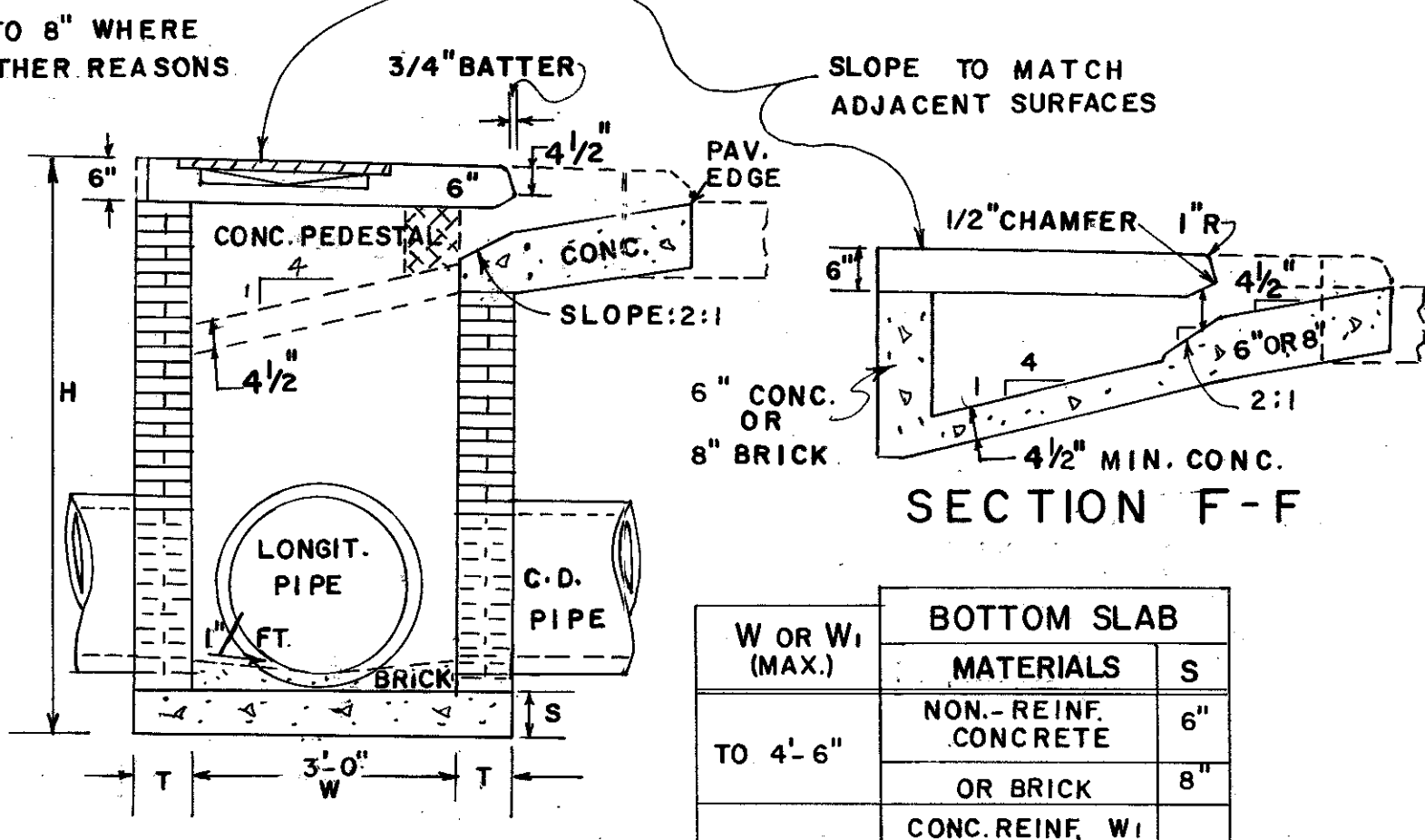


SECTION I-I

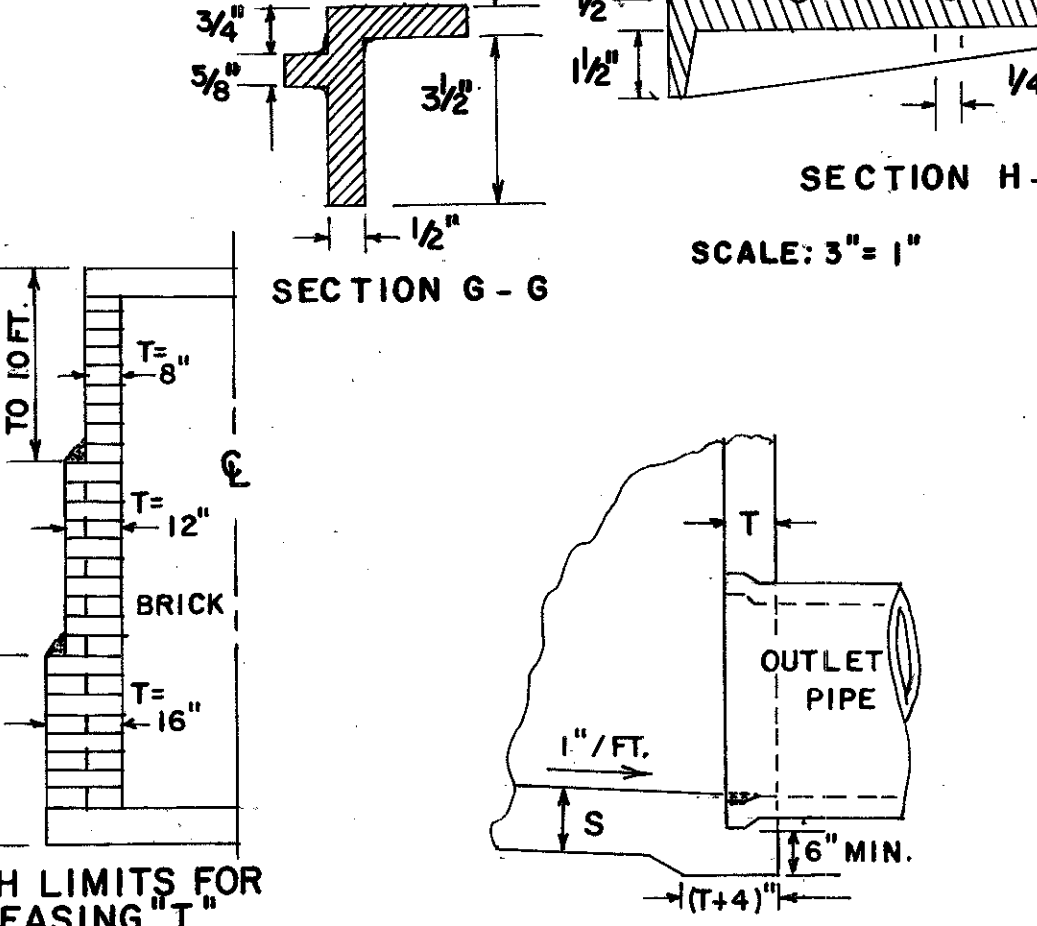
NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED BY 4" TO 8" WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS



SECTION J-J



SECTION A-A



SECTION H-H

SECTION G-G

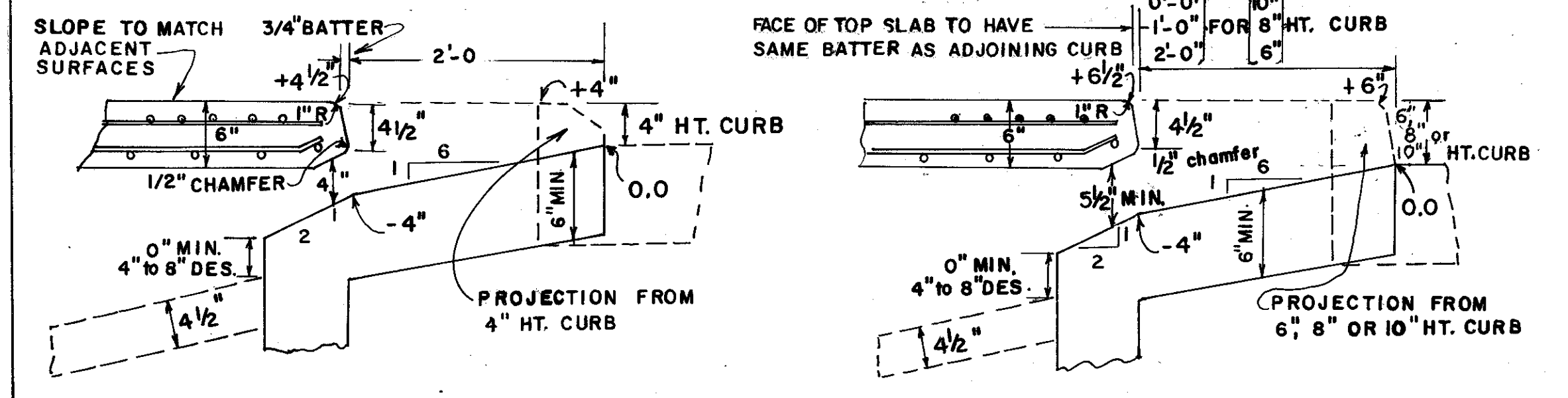
DEPTH LIMITS FOR INCREASING "T"

PIPE DIA.	H (MIN.)	W OR W ₁	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. Δ E 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.

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

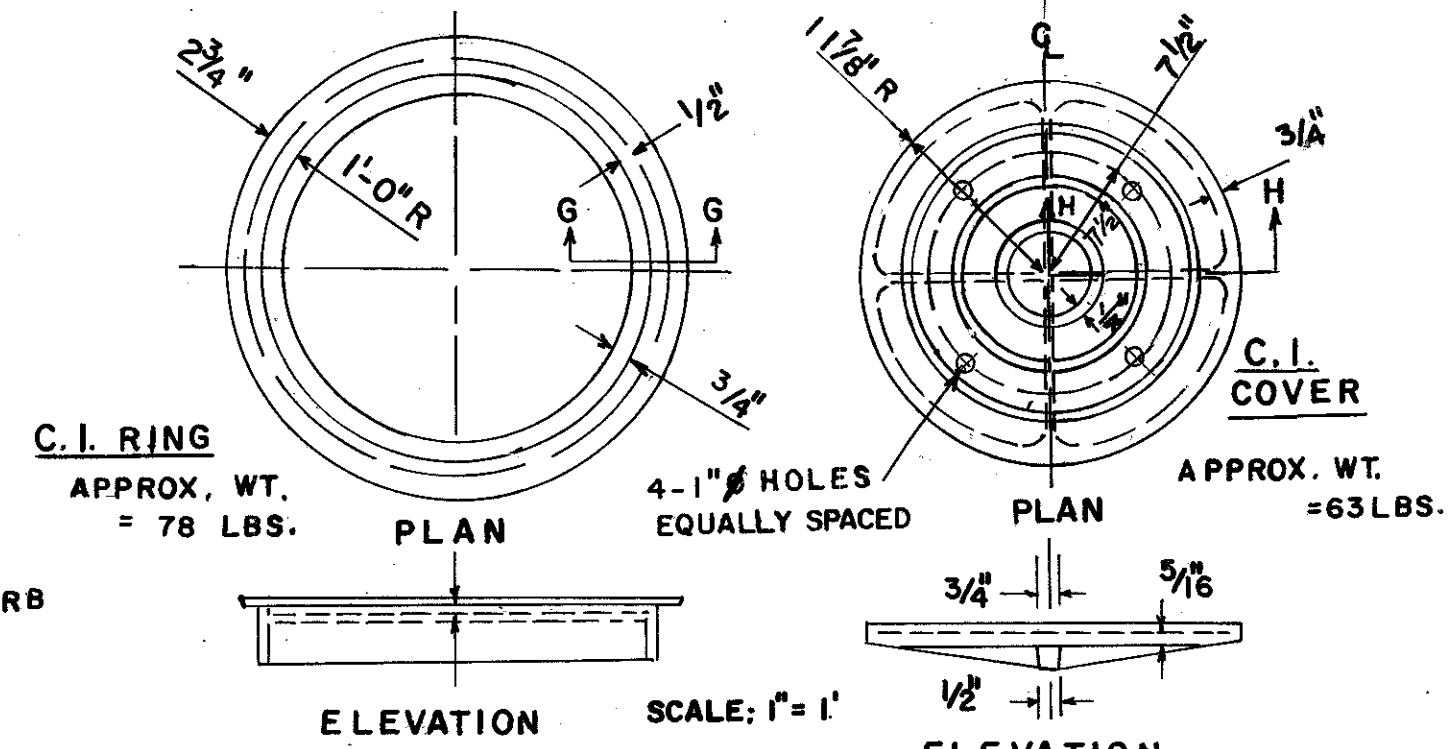
DETAIL OF TOP SLAB, REINF STEEL & CLEARANCES REQ'D.



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

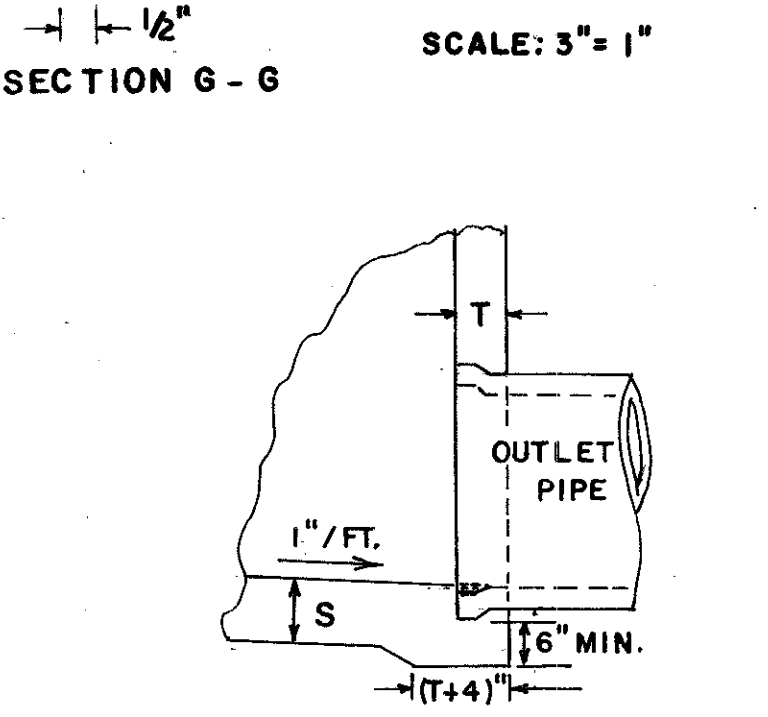
CASTING DETAILS

3° TO 7° DRAFTS TYPICAL

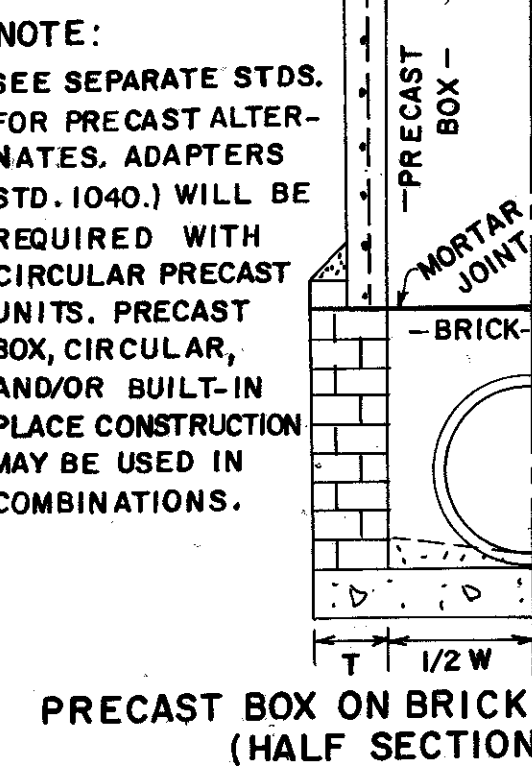


ELEVATION

ELEVATION



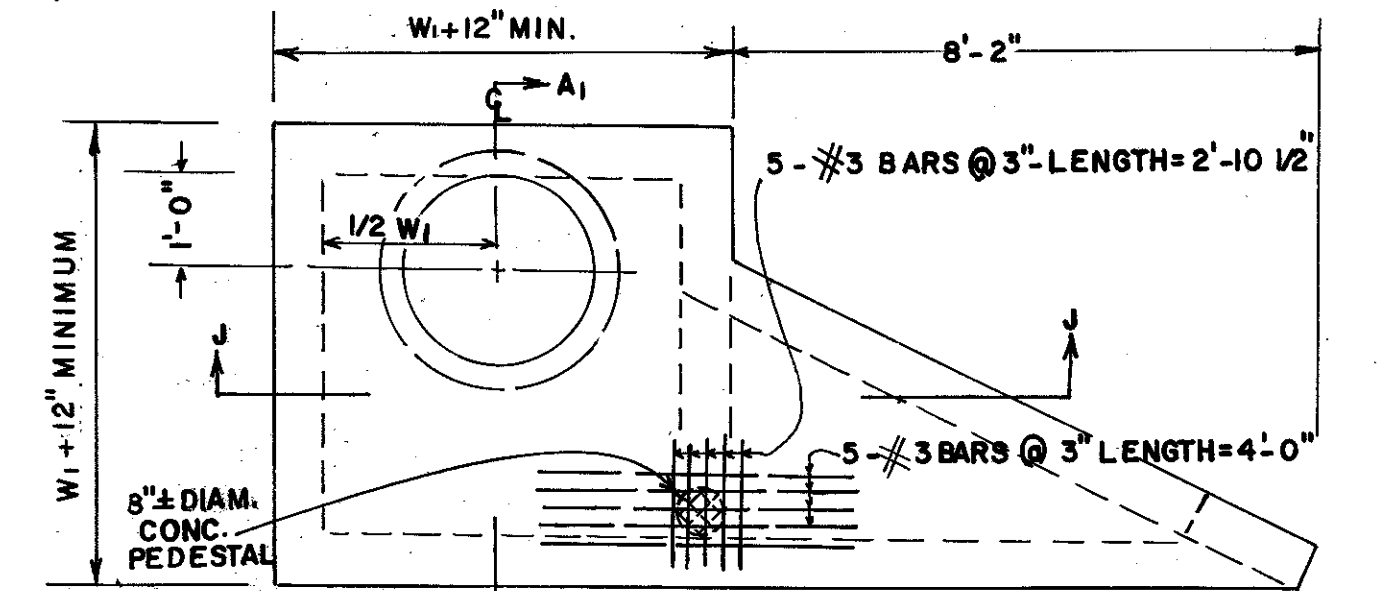
ALTERNATE TO INVERT



PRECAST BOX ON BRICK (HALF SECTION)

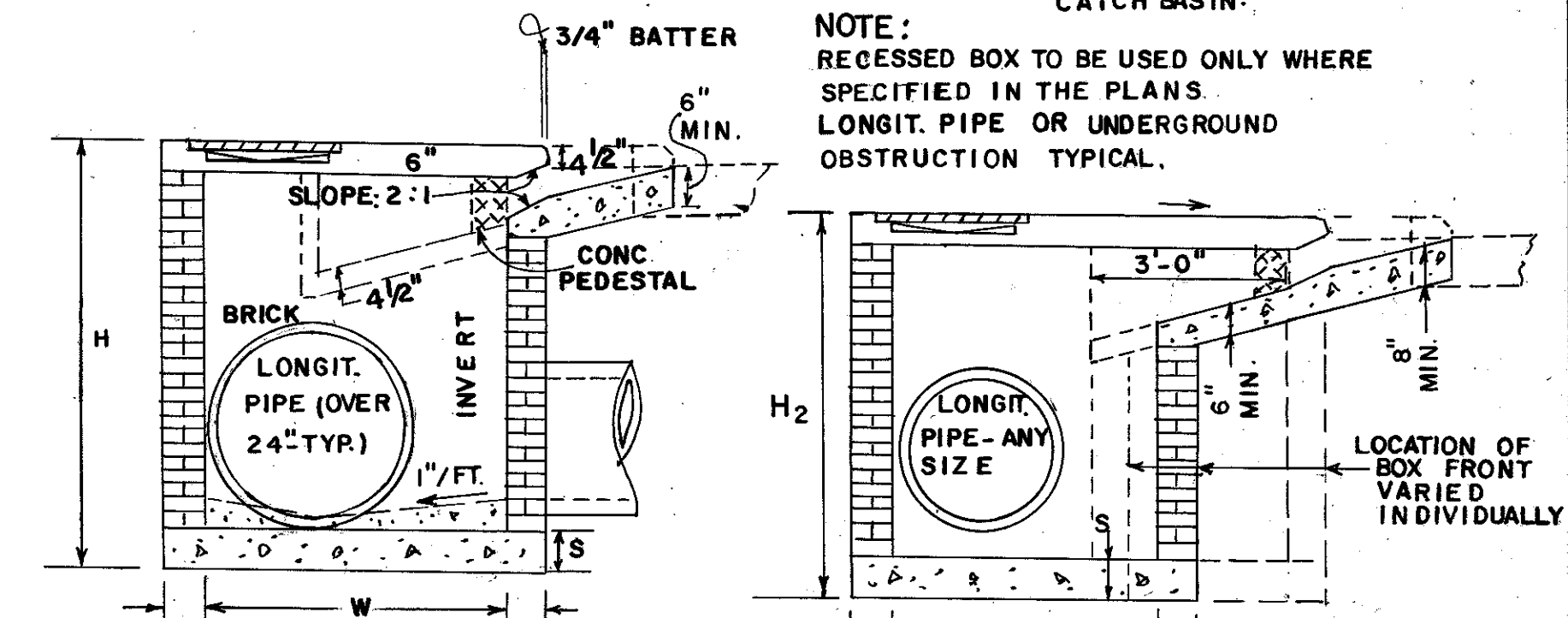
CATCH BASIN (WITH PROTRUDED BACK)

(FOR USE WITH LARGE LONGITUDINAL PIPE OR RECESSED BOX)



PART PLAN

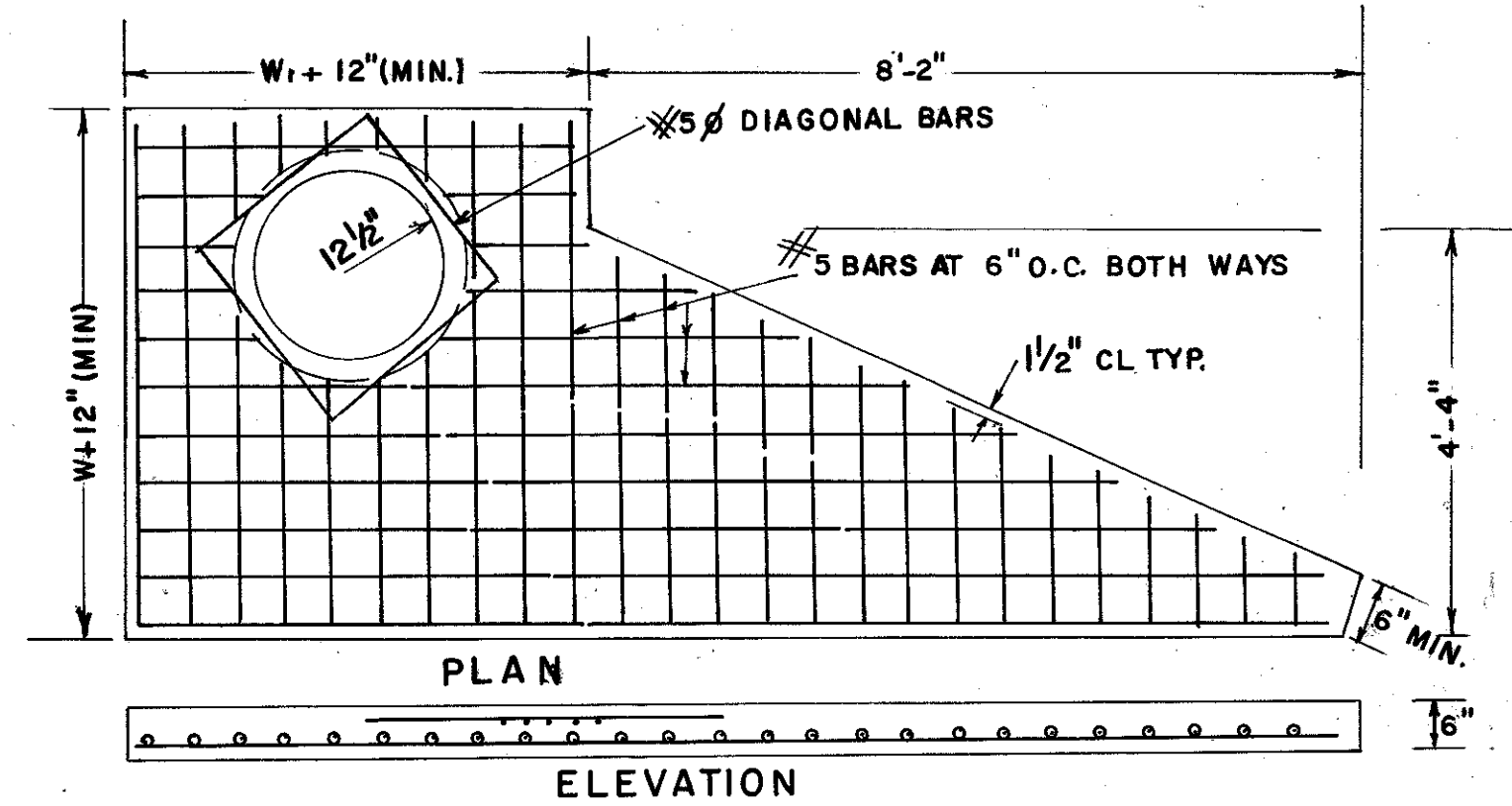
NOTE: DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THESE AT FAR LEFT FOR NORMAL CATCH BASIN.



SECTION A'-A' (FOR LARGE LONGITUDINAL PIPE)

SECTION A'-A' (FOR RECESSED BOX)

DETAIL OF TOP REINFORCED CONCRETE SLAB



PLAN

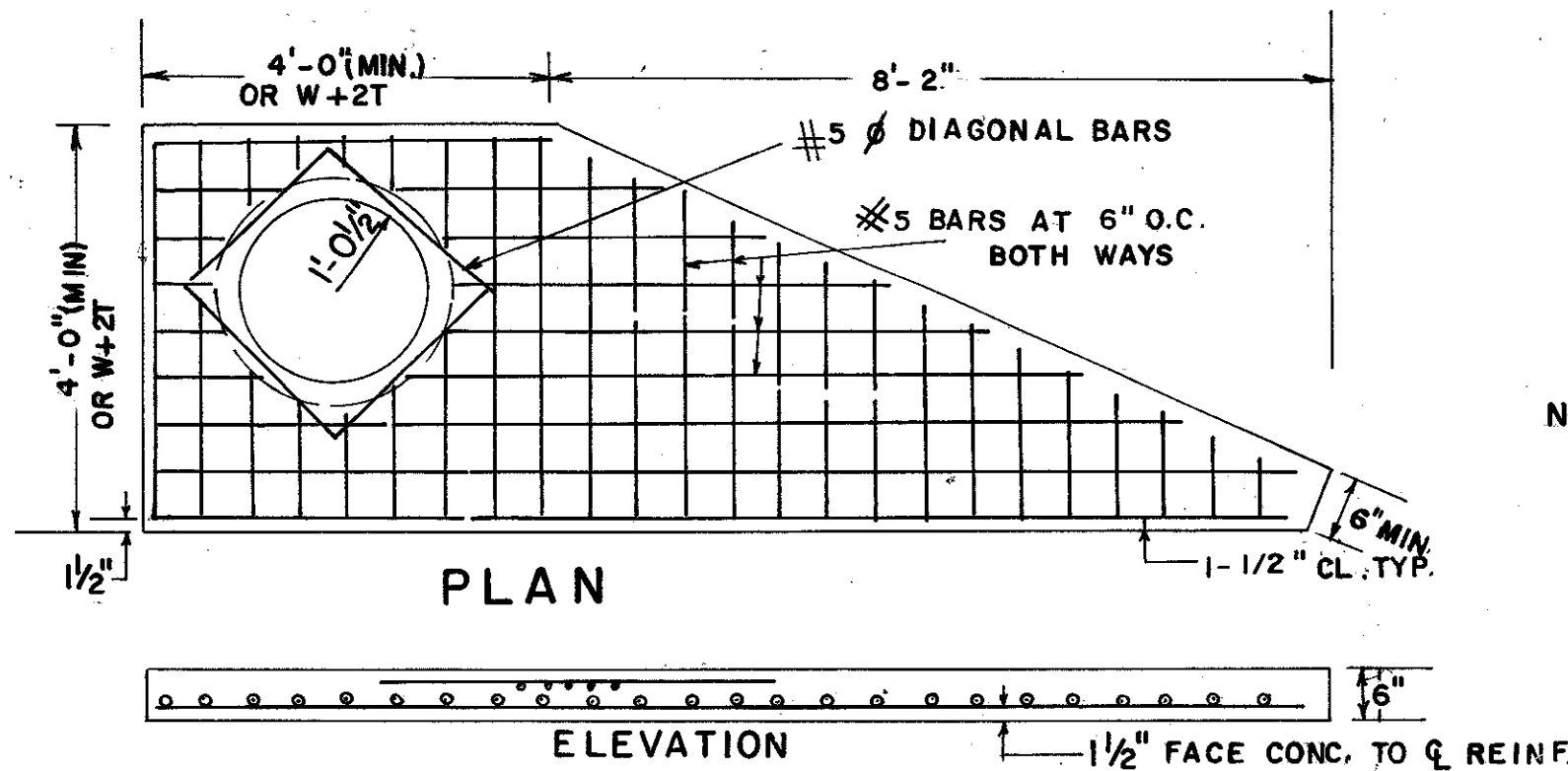
ELEVATION

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 NUMBER 1033F
REV. & REDR. R.M.U. TR.A. G.M.E. CHK. R.K.C.	(SUBMITTED) <i>Floyd E. Hardy</i> STATE ROAD & AIRPORT DESIGN ENGR. (APPROVED) <i>Thomas D. Mordue</i> STATE HIGHWAY ENGINEER	

DETAIL OF TOP REINFORCED CONCRETE SLAB

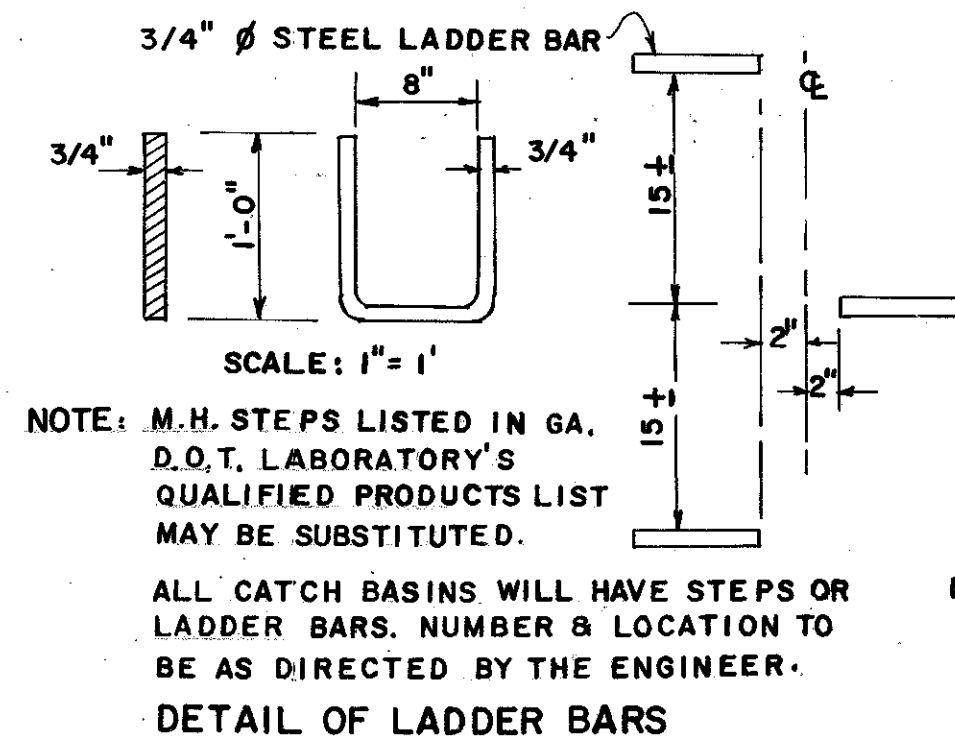


PLAN

ELEVATION

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.



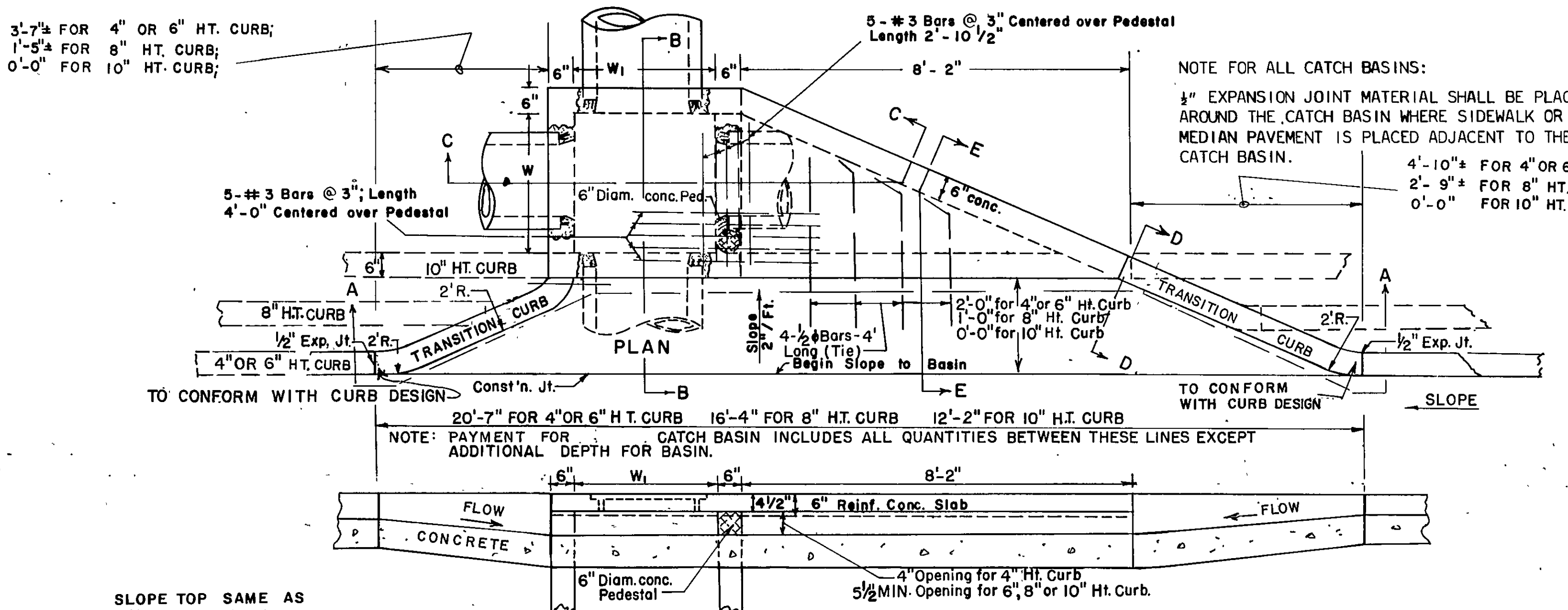
NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

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

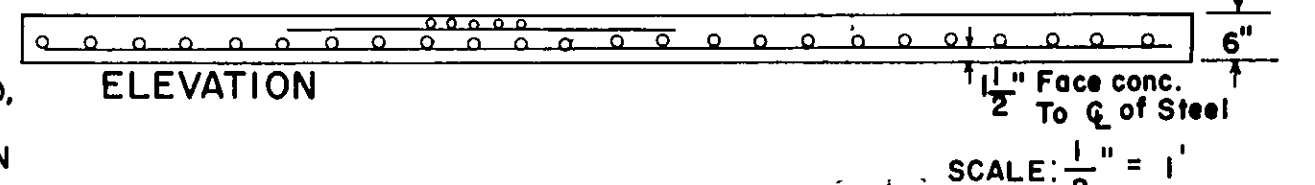
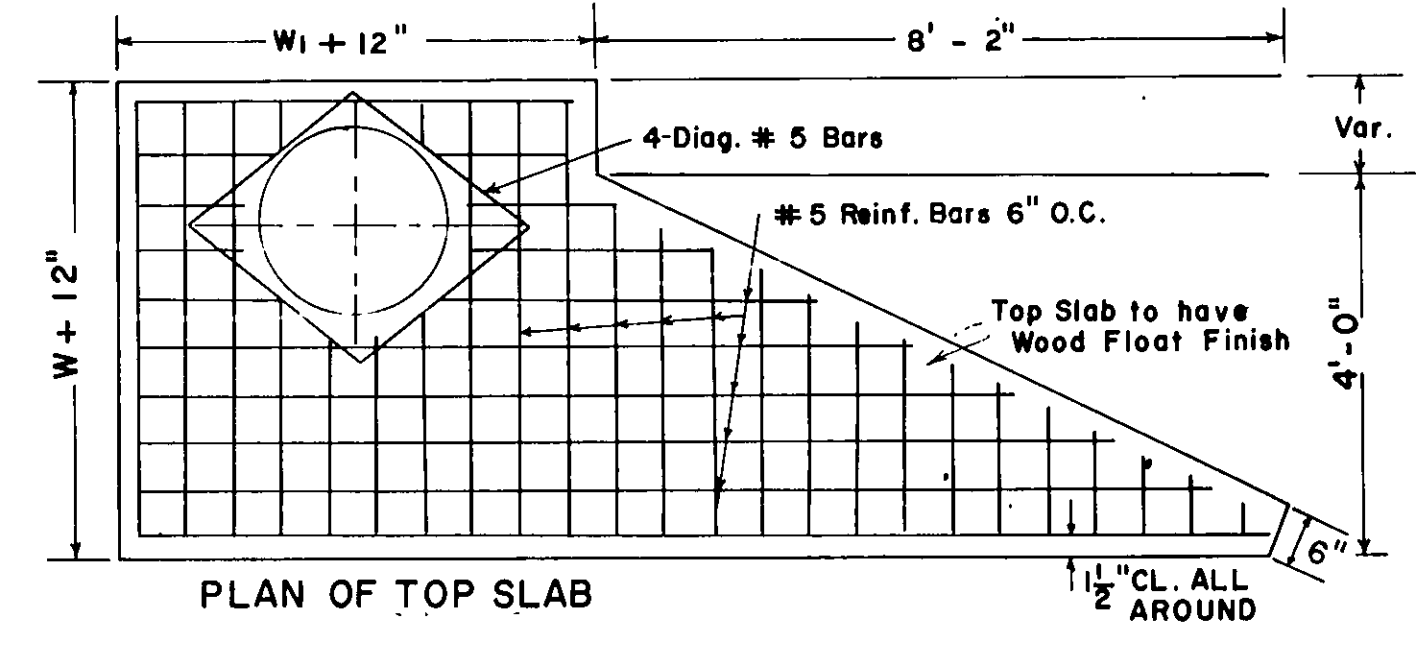
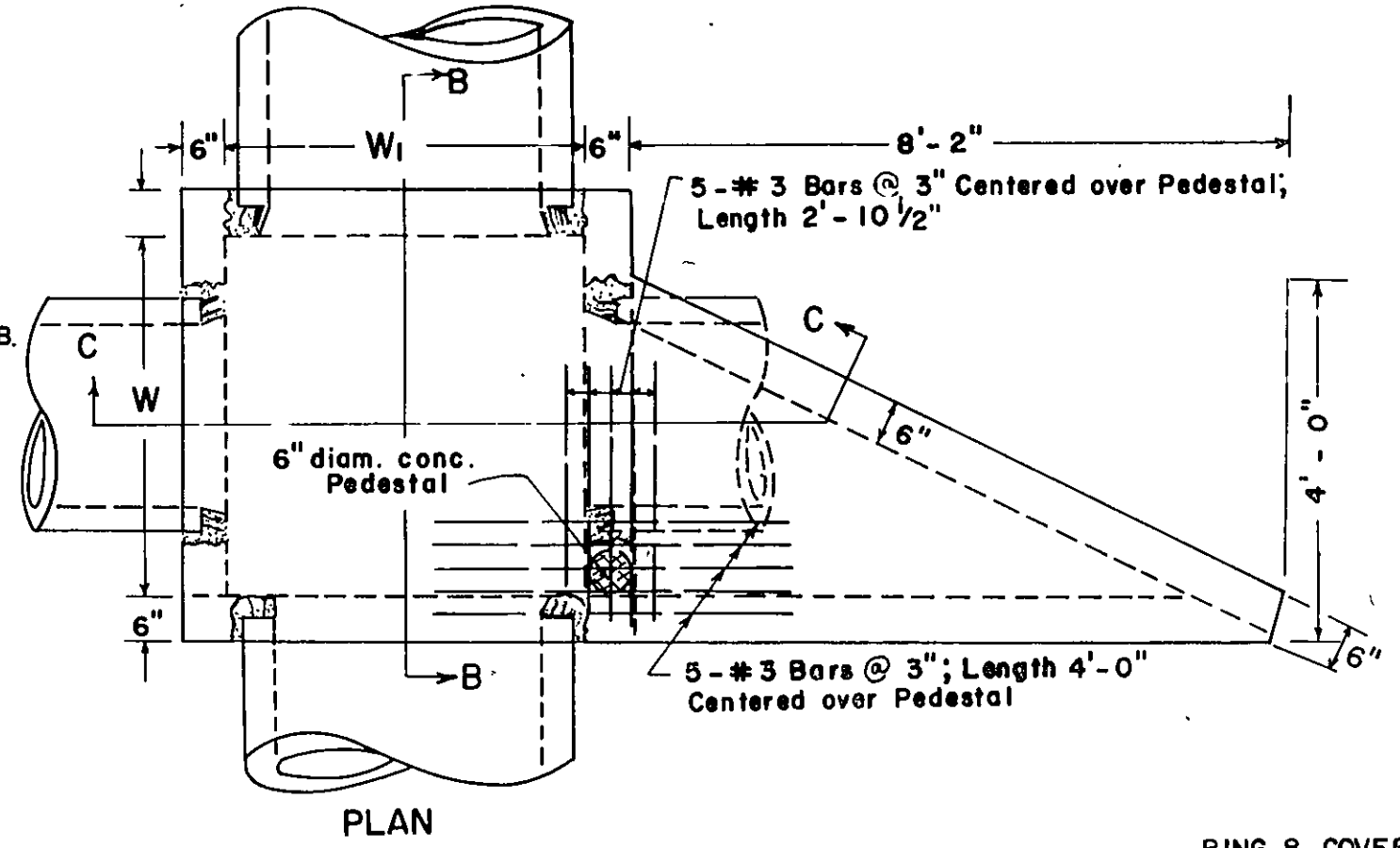
DETAIL OF LADDER BARS

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

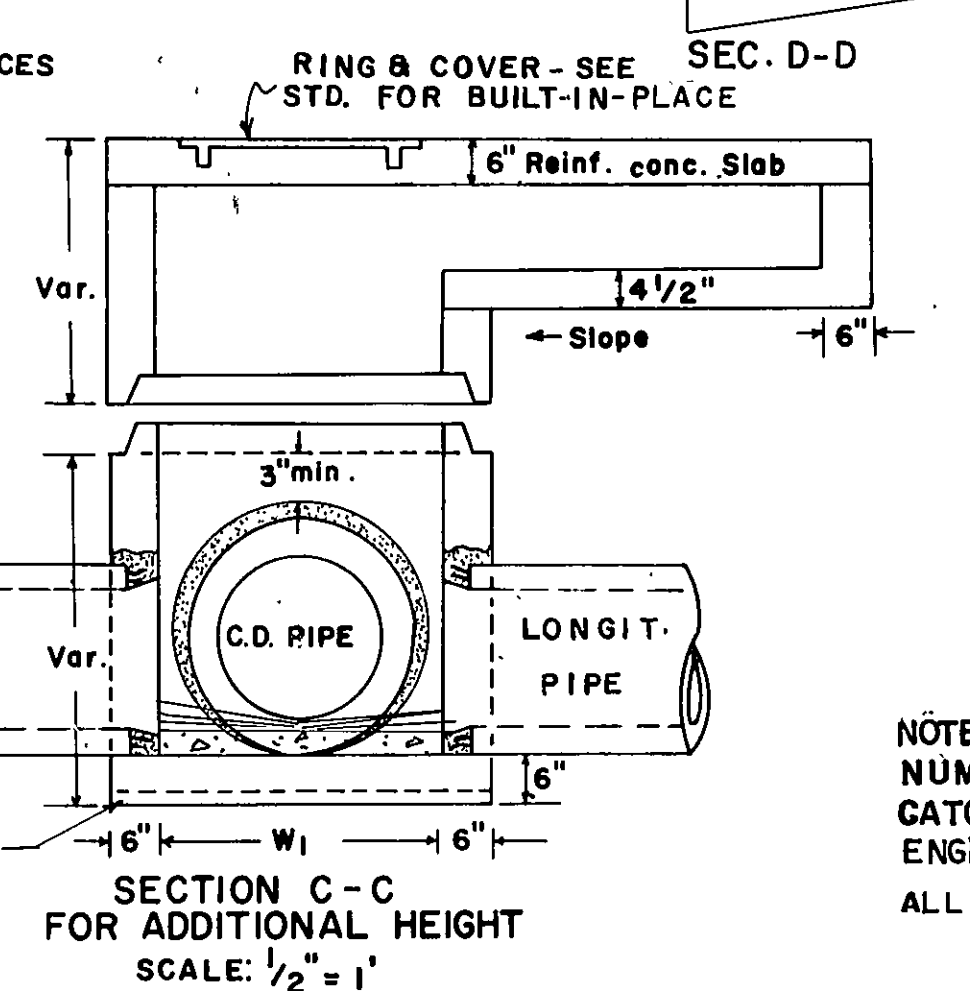
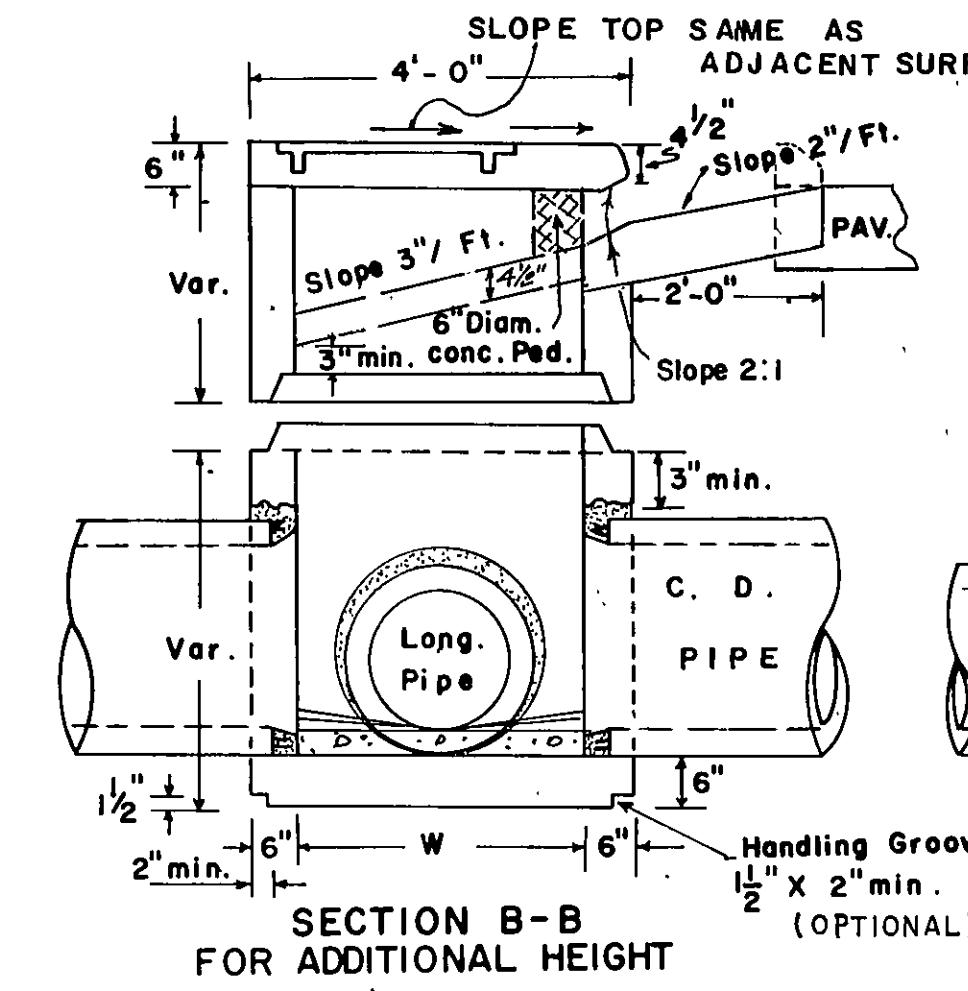
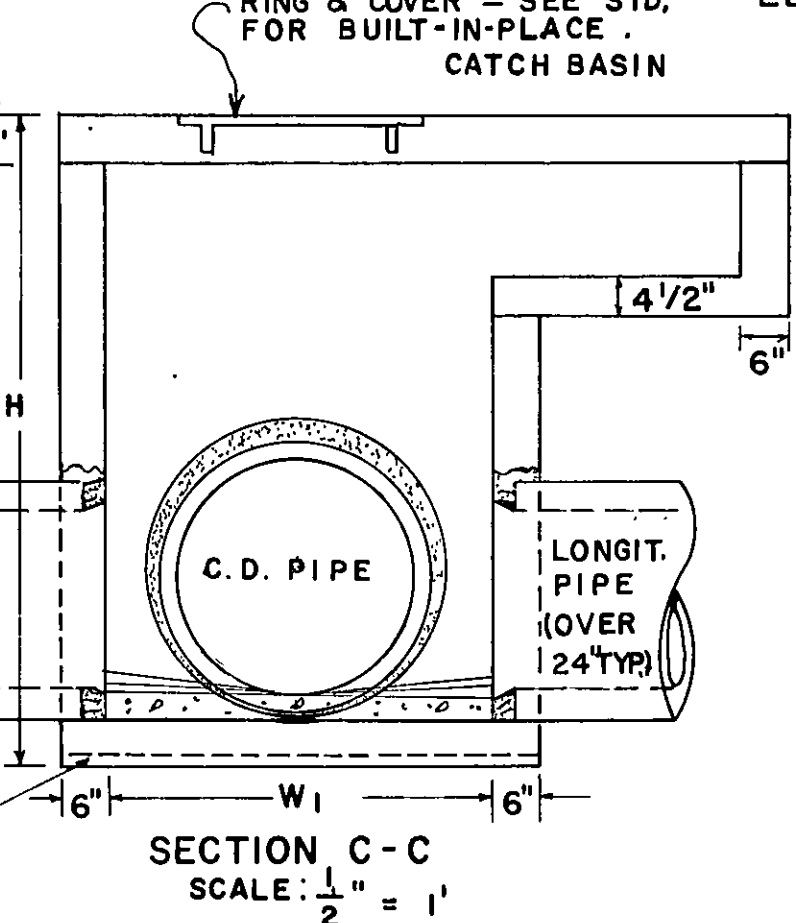
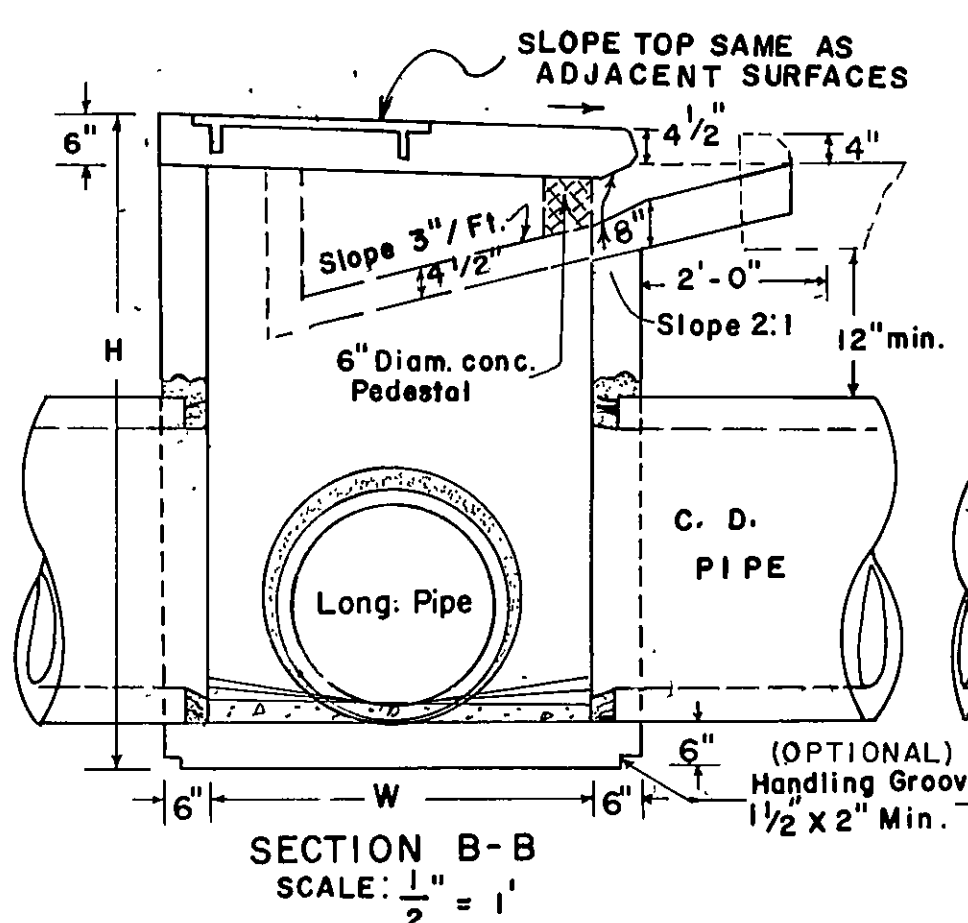
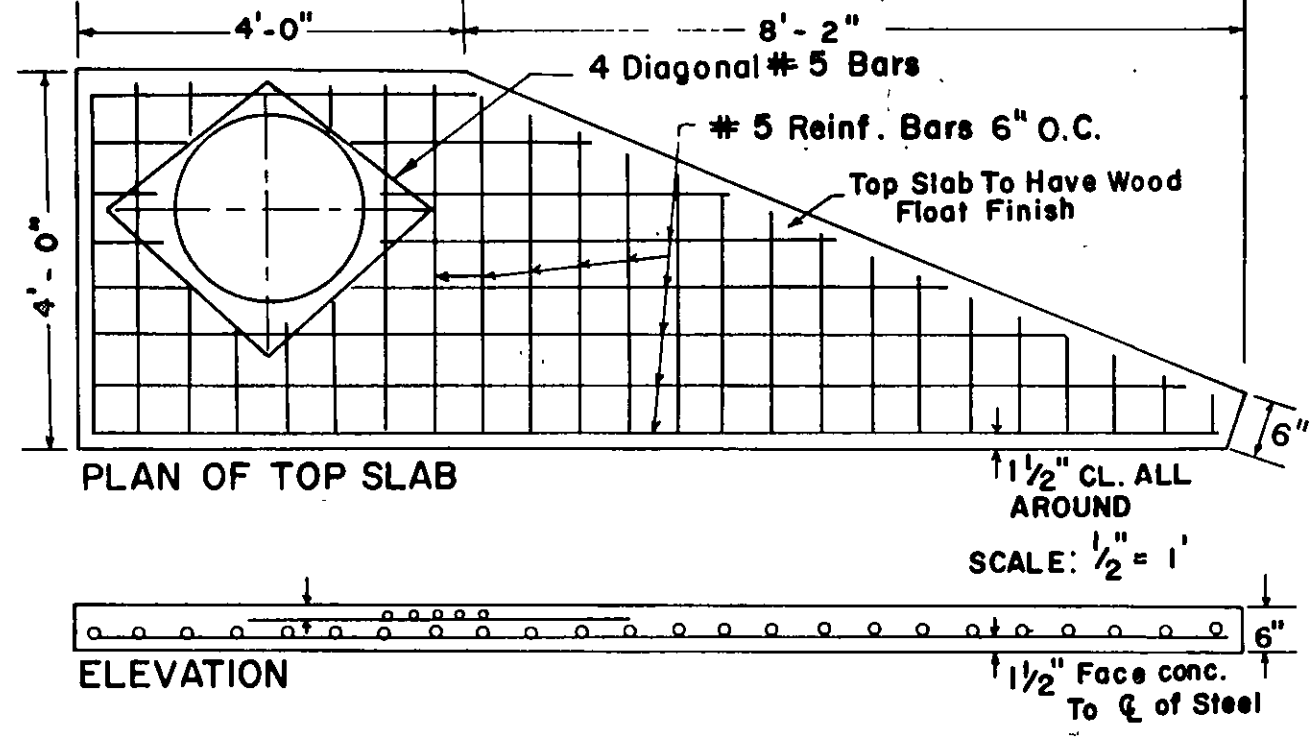
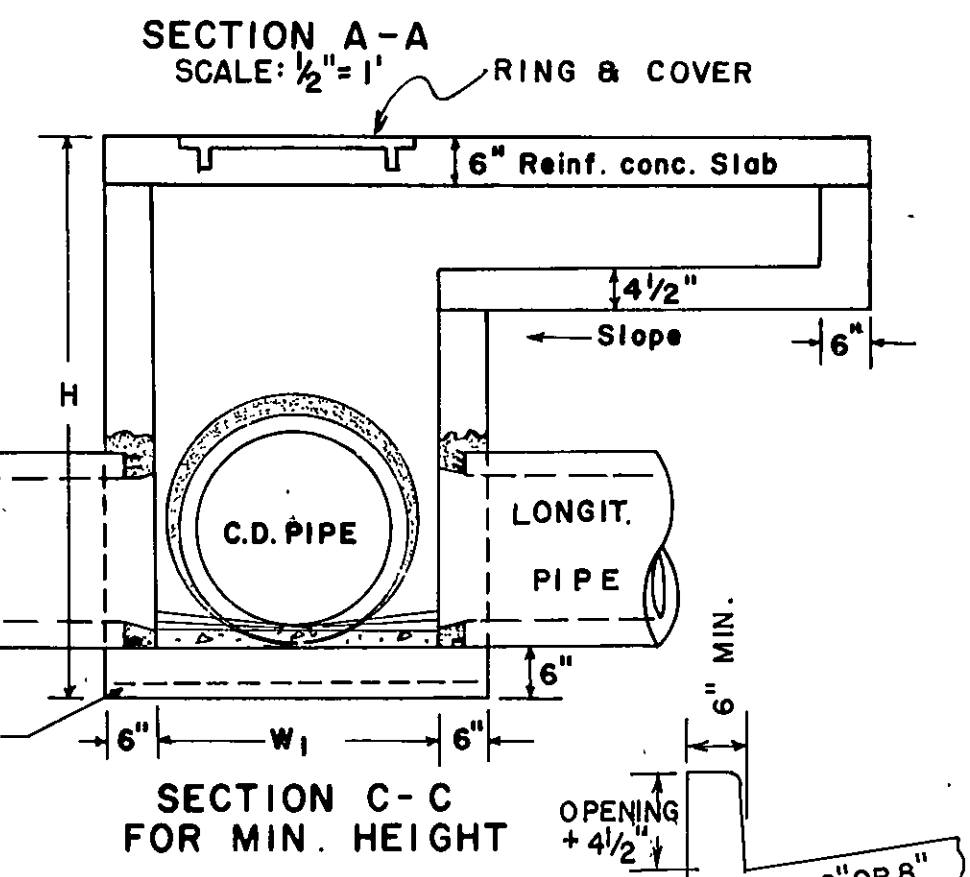
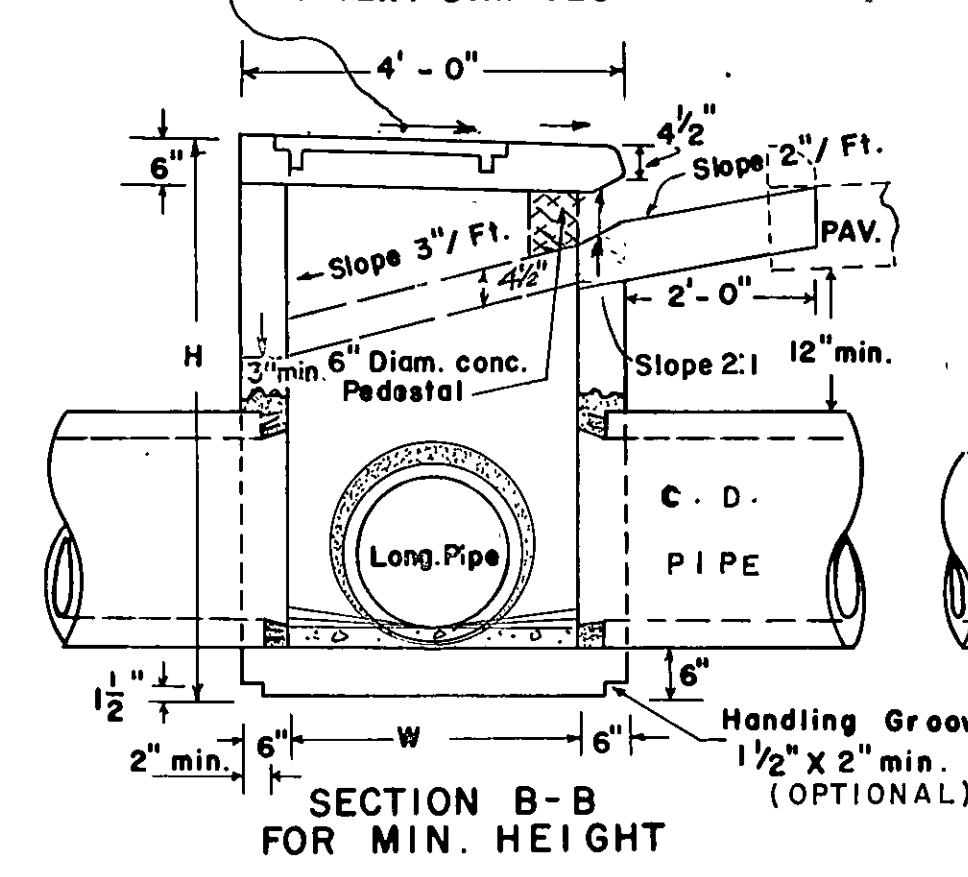
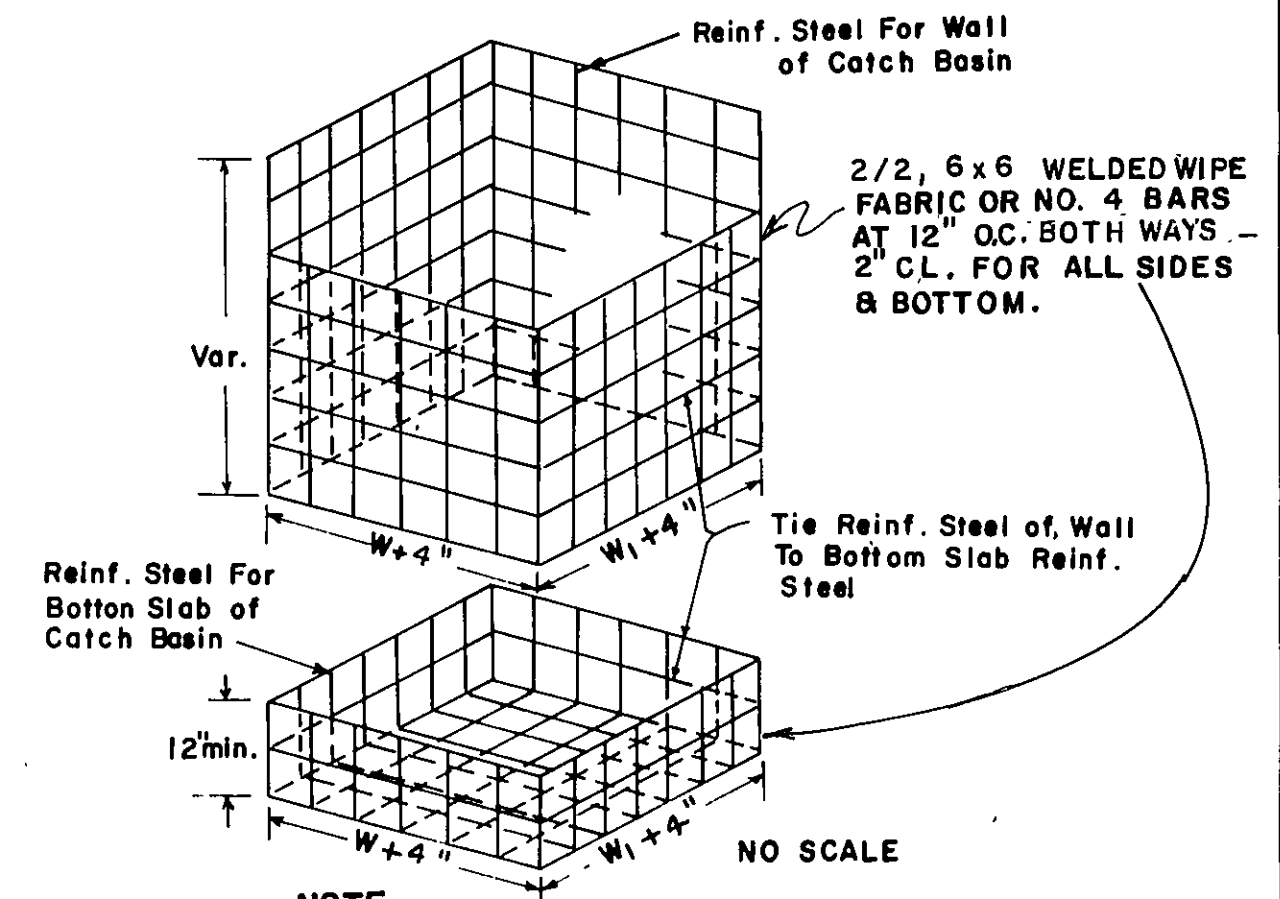
3'-7 1/2" FOR 4" OR 6" HT. CURB;
 1'-5 1/2" FOR 8" HT. CURB;
 0'-0" FOR 10" HT. CURB;



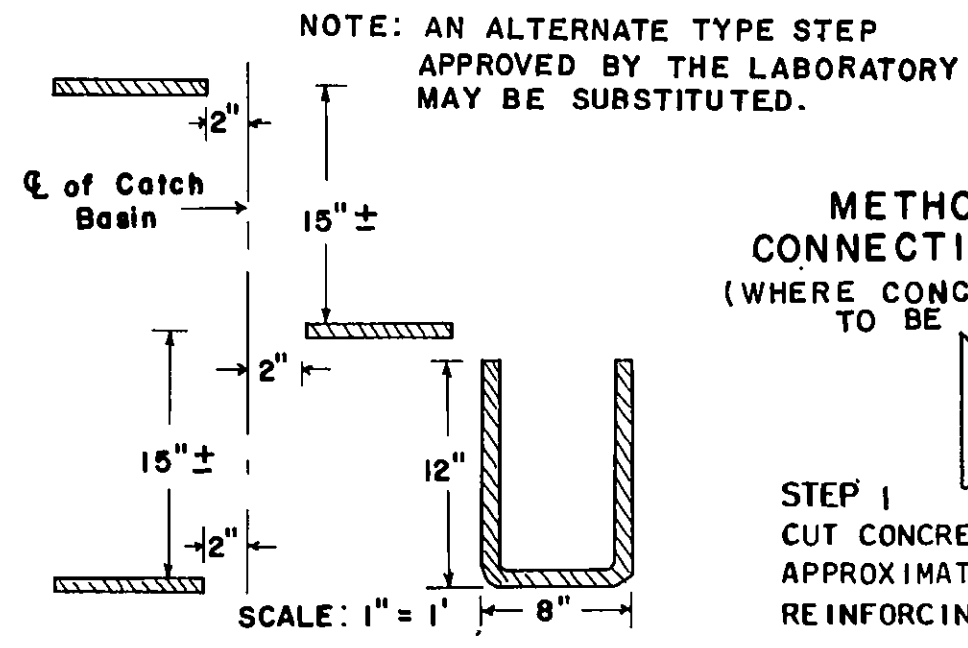
CATCH BASIN (TYPICAL FOR CATCH BASIN WITH LONGITUDINAL PIPE OVER 24")



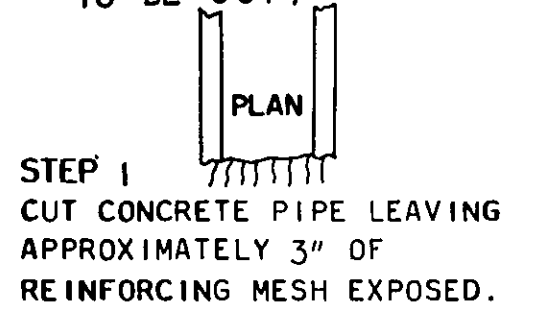
REINFORCING-ISOMETRIC VIEW



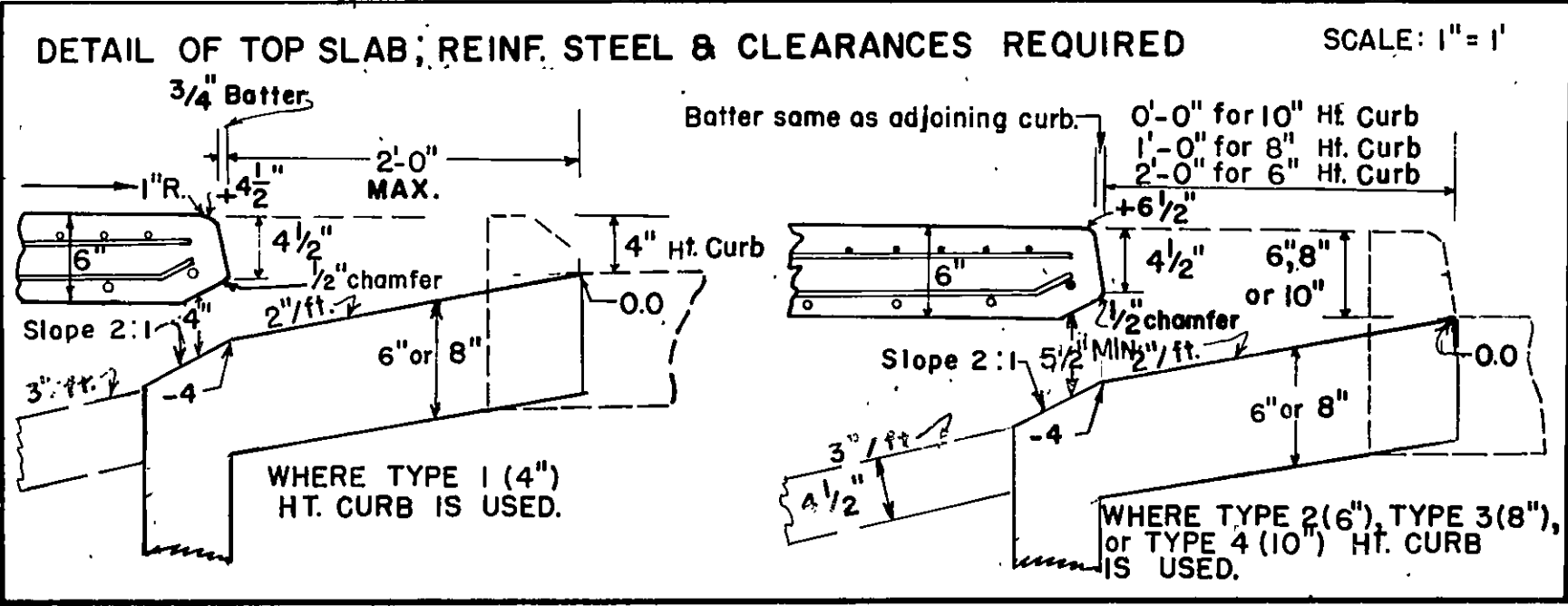
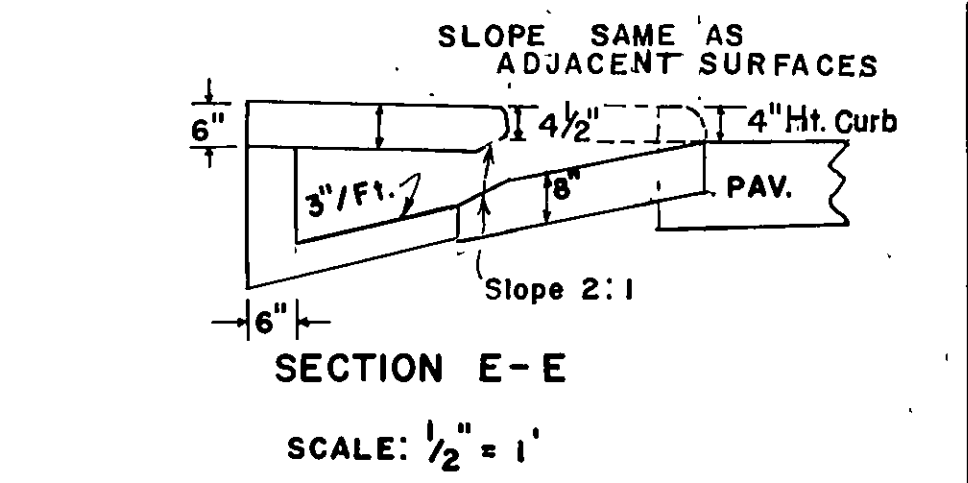
DETAIL AND ARRANGEMENT OF LADDER BARS



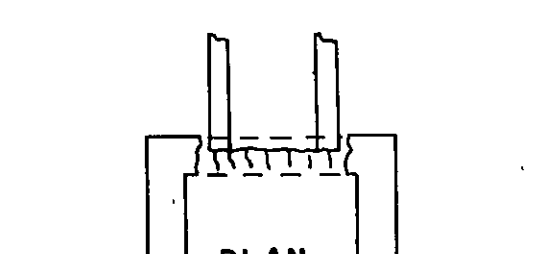
METHOD OF CONNECTING PIPE (WHERE CONCRETE PIPE HAS TO BE CUT)



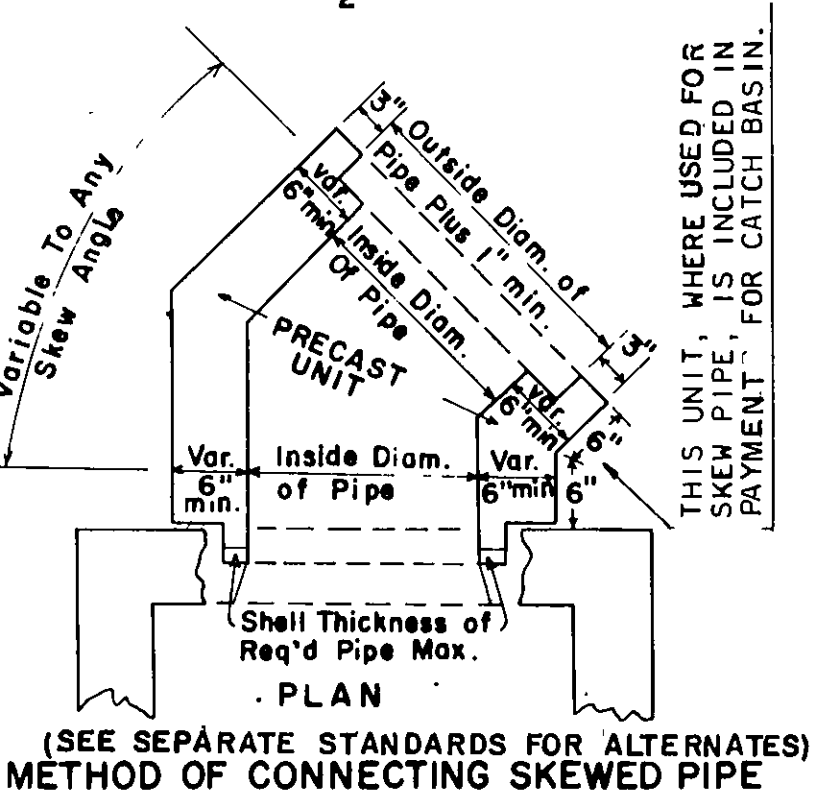
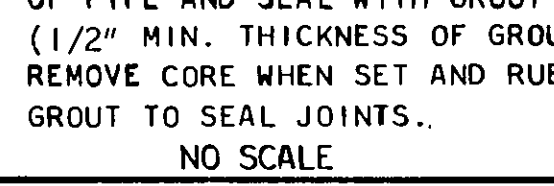
NOTE: NUMBER AND LOCATION OF LADDER BARS IN CATCH BASIN TO BE AS DIRECTED BY THE ENGINEER.
 ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS.



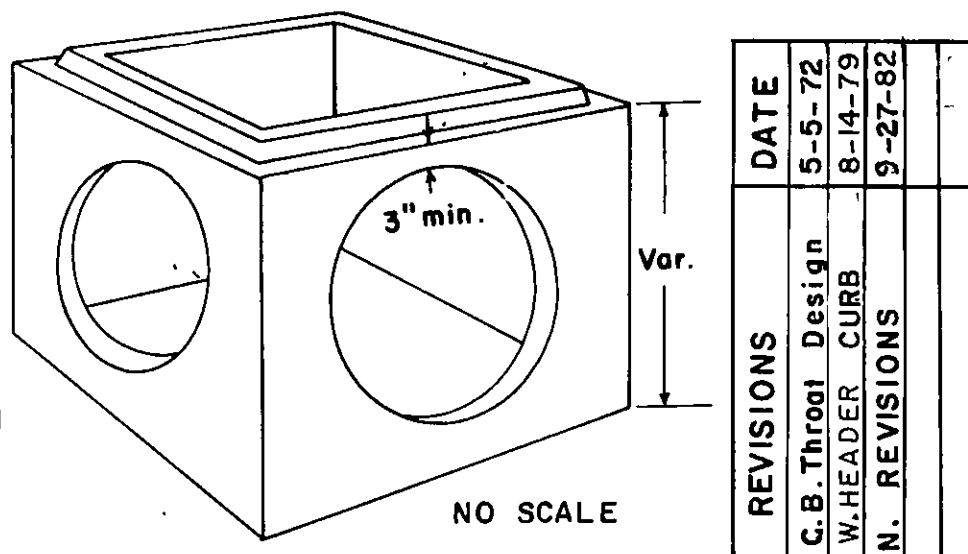
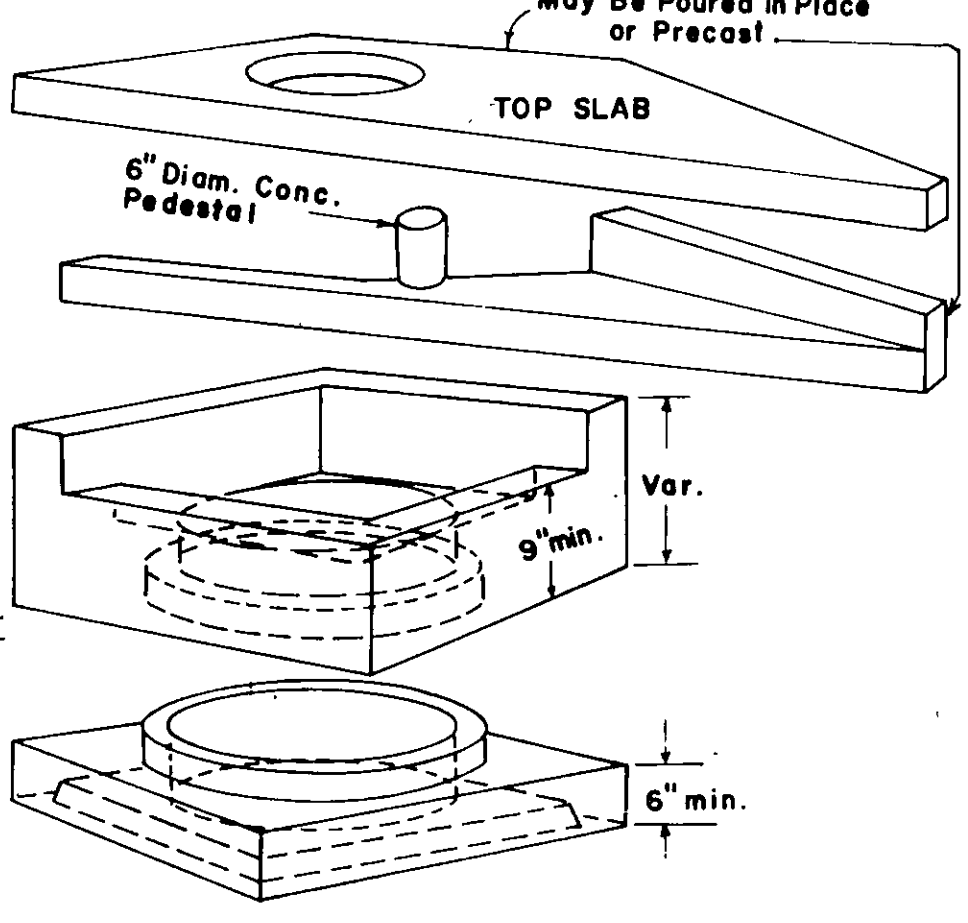
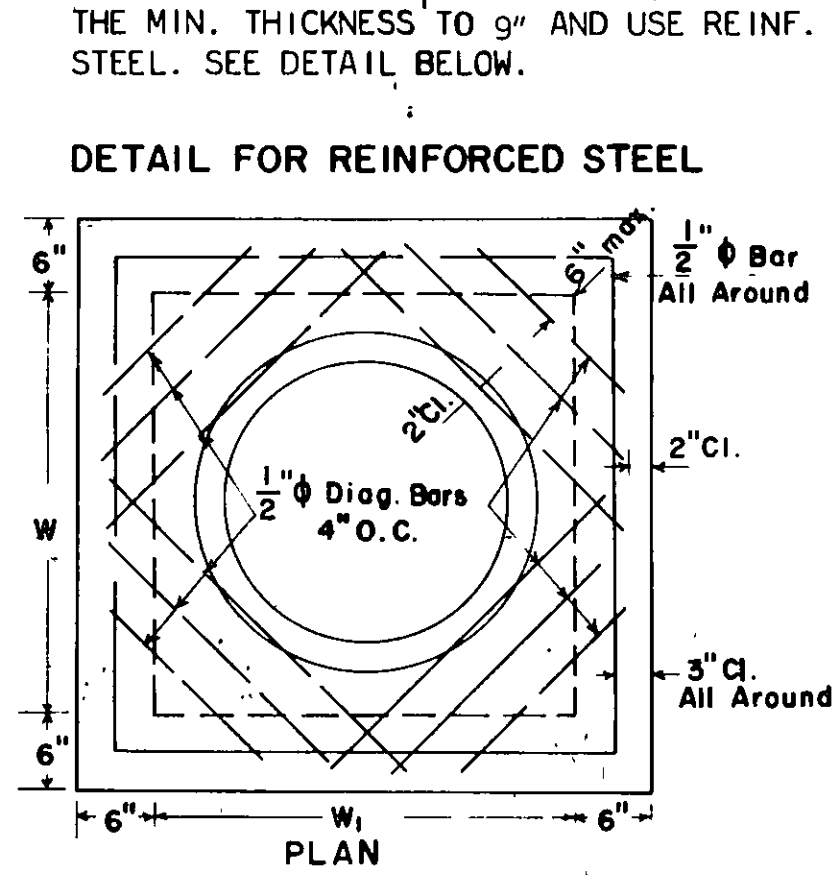
STEP 2 POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL.



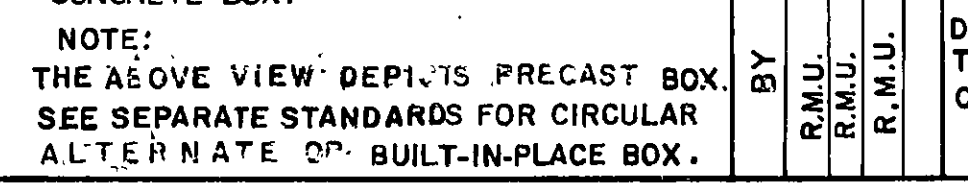
STEP 3 POSITION CONICAL CORE INSIDE OF PIPE AND SEAL WITH GROUT (1/2" MIN. THICKNESS OF GROUT) REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS.



DETAIL FOR REINFORCED STEEL



SWIVEL SECTION MAY BE USED WHERE SKEWED PIPE CONNECTS TO PRECAST CONCRETE BOX.



PIPE SIZE	NORMAL W OR W1	MIN. H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
18"	3'-0"	4'-10"
24"	3'-6"	5'-6"
30"	3'-6"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-4"
48"	5'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"

NOTE: DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS PERMIT AND THE ENGINEER APPROVES. W & W1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

ALTERNATE: BUILT-IN-PLACE, PRECAST BOX AND/OR PRECAST CIRCULAR UNITS WITH THE REQUIRED ADAPTERS, REDUCERS, FITTINGS, CONNECTIONS, ETC. MAY BE USED IN COMBINATIONS.

NOTE: FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1033F FOR BUILT-IN-PLACE CATCH BASIN.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

STANDARD PRECAST CATCH BASINS

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

SCALE AS SHOWN

DESIGNED BY R.M.U. TRACED BY R.M.U. CHECKED BY R.B.S.
 SUBMITTED BY STATE HIGHWAY ENGINEER
 APPROVED BY STATE HIGHWAY ENGINEER

DATE: 5-5-72
 REVISIONS: 8-14-79, 9-27-82
 FEB. 1967
 NUMBER 1033F
 PRECAST