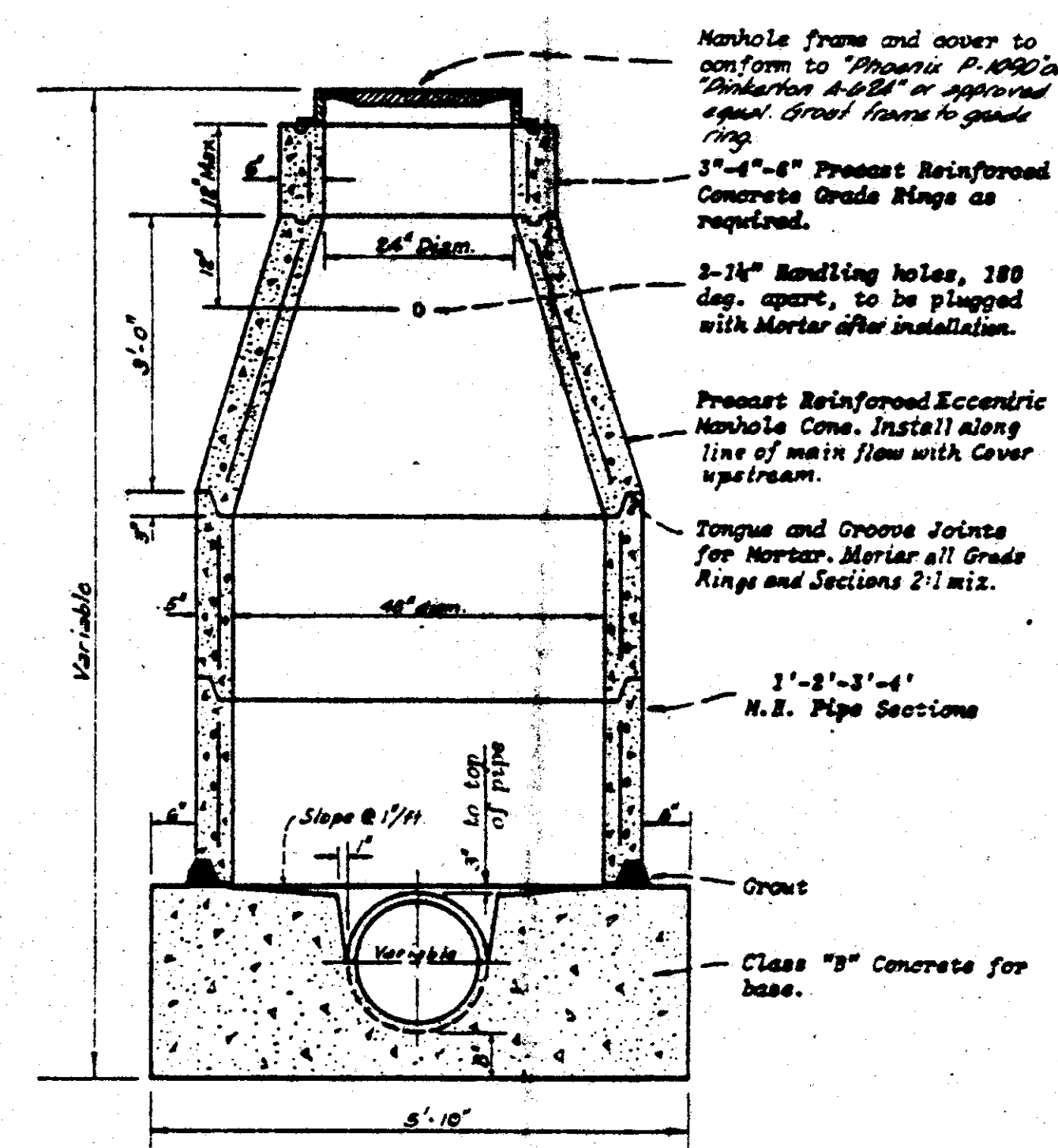
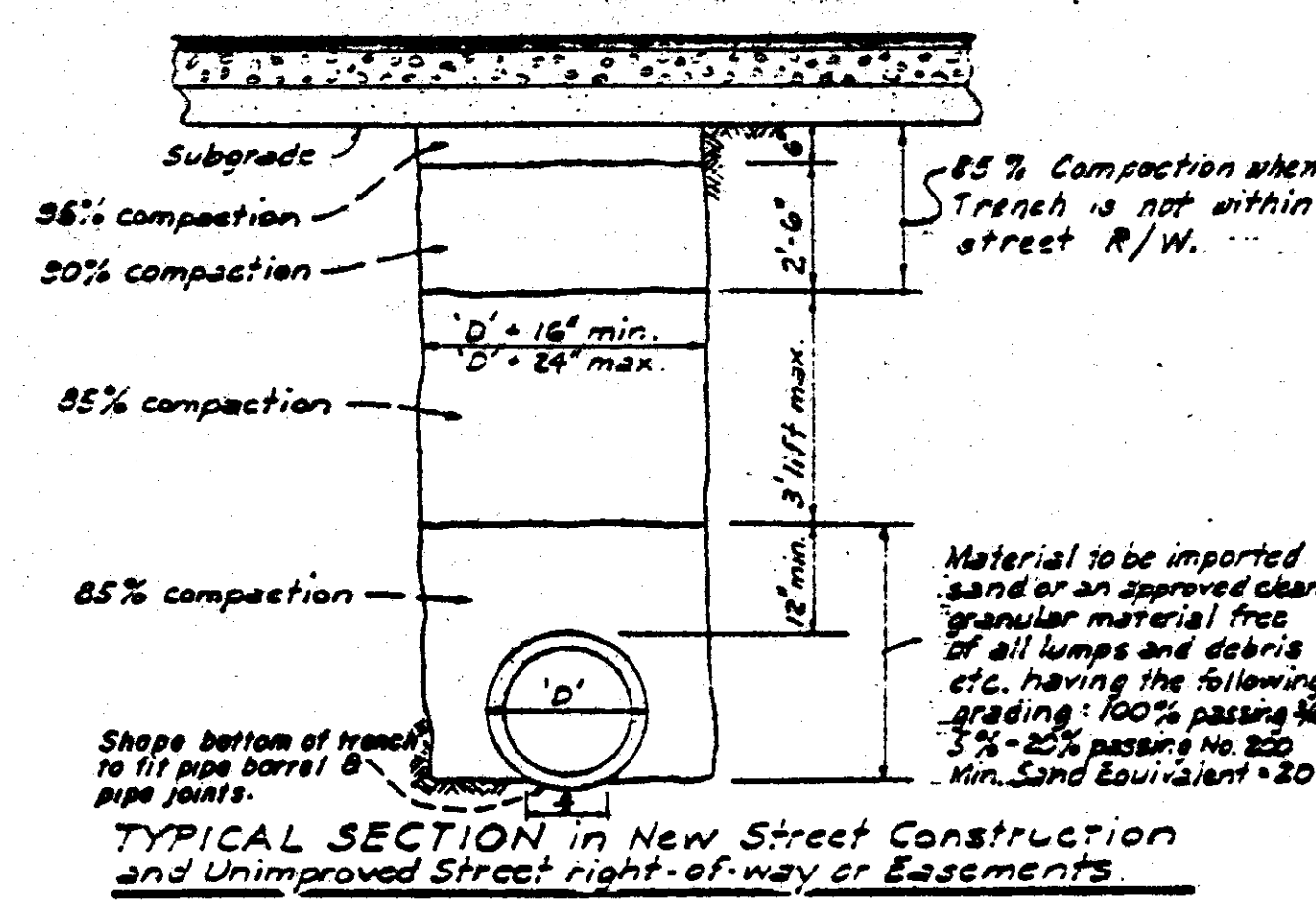


HOUSE LATERAL

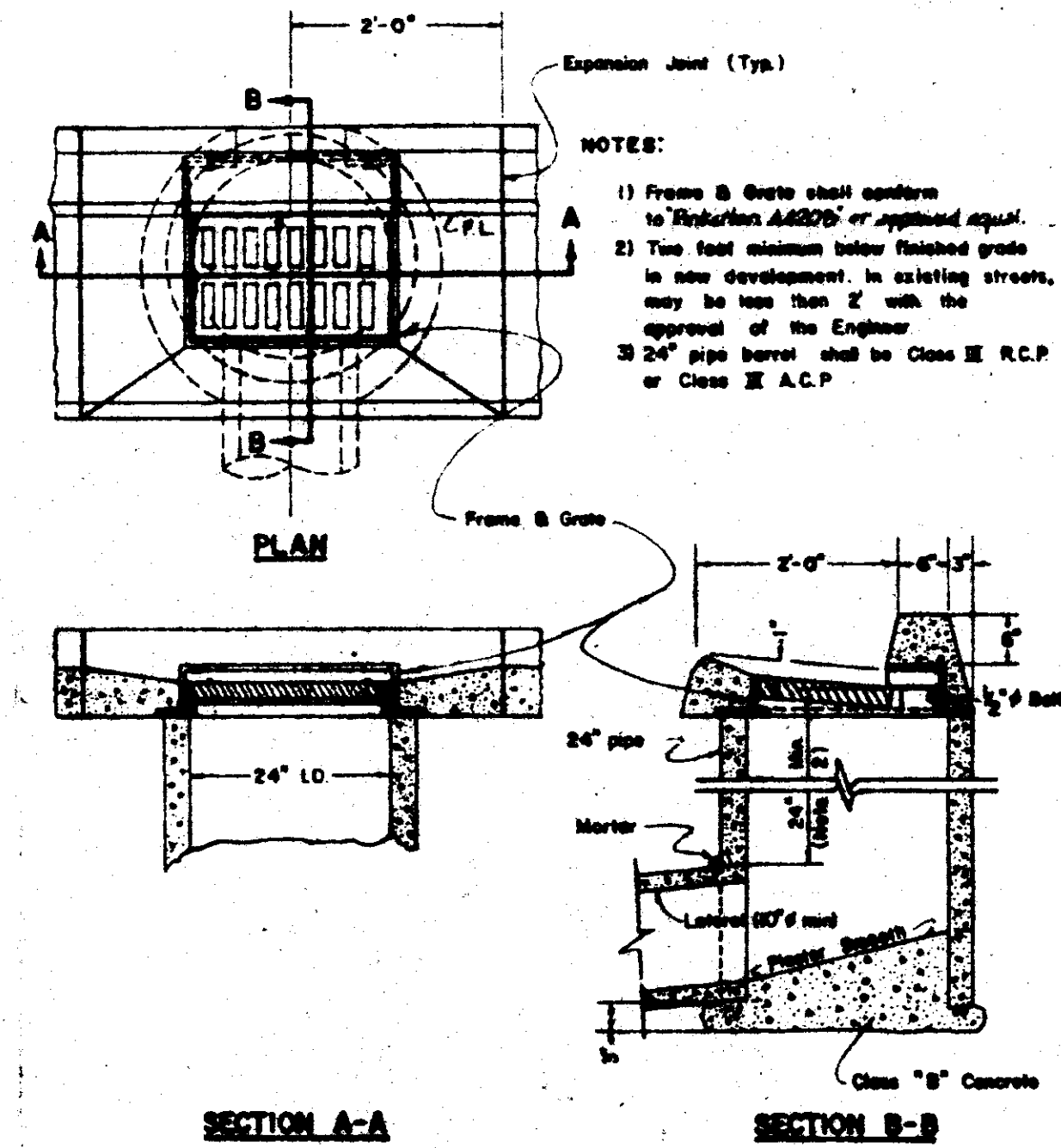


**NOTES:**  
Precast Reinforced Concrete Manhole Units shall conform to A.S.T.M. C-475.  
Construct Pipe Joint at 2 feet maximum from base of Manhole. Flexible joint. Prior approval must be obtained before installing more than 12" of grade rings.

MANHOLE TYPE I FOR PIPES 33" DIAMETER OR SMALLER



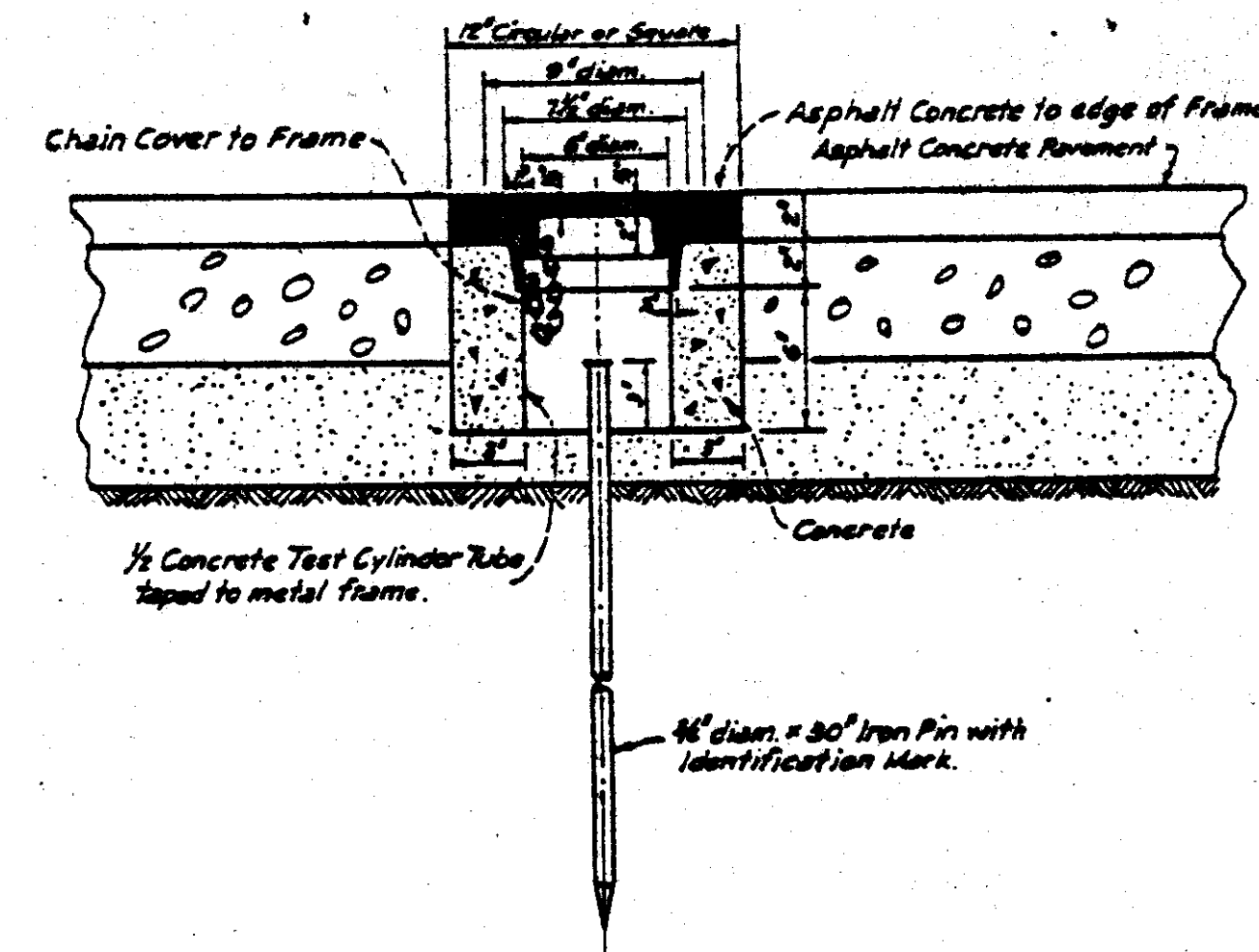
TRENCH SECTION



STANDARD STORM DRAIN INLET

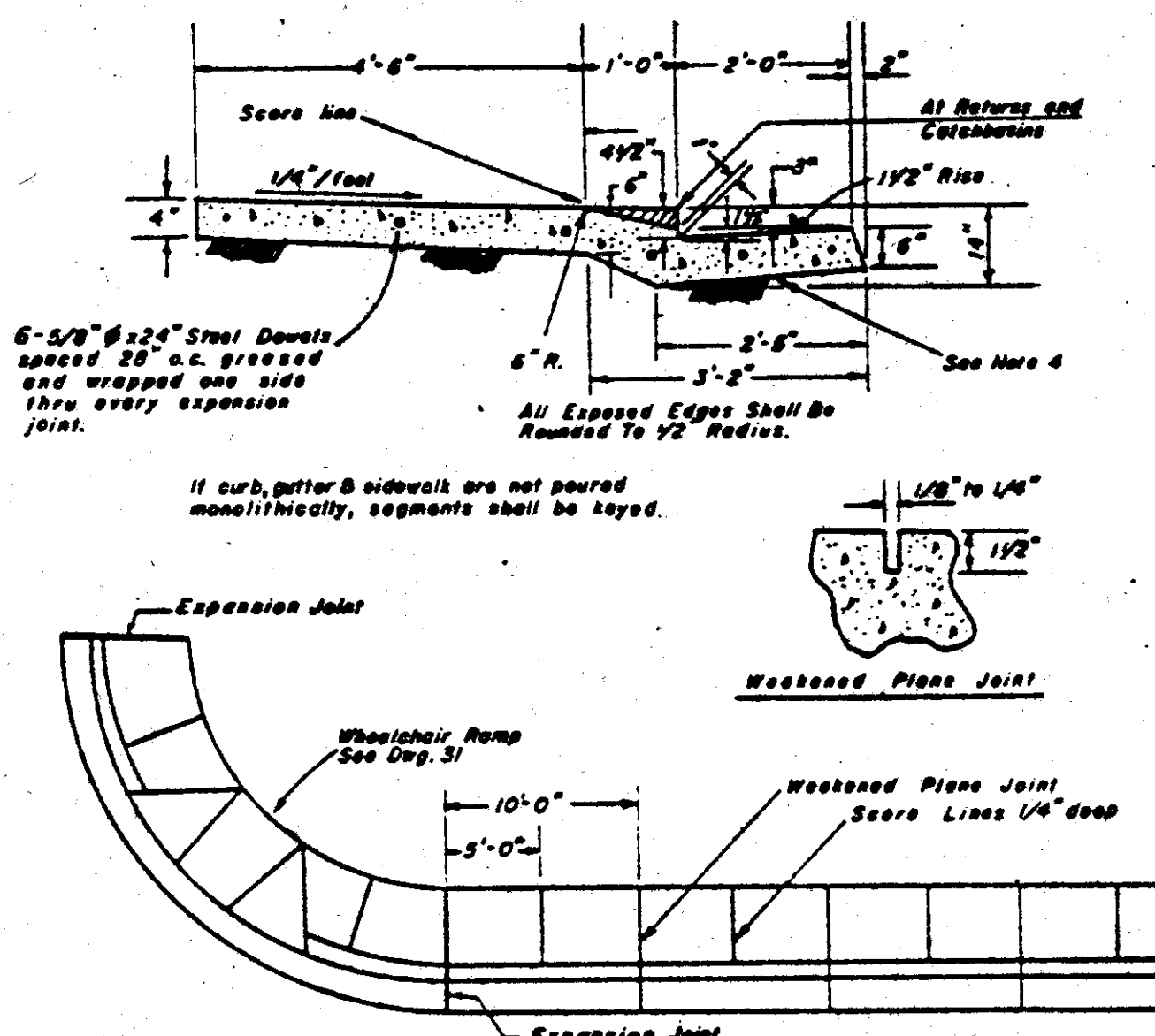
**GUARANTEE CLAUSE**

The developer and contractor guarantee all work, materials and devices against faulty workmanship and materials for a period of one year after final acceptance of the project by the county.



MONUMENT

- NOTES:**
- Set Monument, Frame and Cover after pavement is in place.
  - Monument Frames and Covers shall be tough Grey Iron Casting conforming to the latest A.S.T.M. requirements. Each cover shall be ground or otherwise finished so that it will fit its frame without rocking.
  - Frame and Cover to be PINKERTON FOUNDRY No. A-881, AMERICAN BRASS and IRON FOUNDRY, or equal. Cast Iron Cover to be marked "MONUMENT".



TYPE 'E' CURB GUTTER, AND SIDEWALK

**AS BUILT PLANS**

The Consulting Engineer shall keep an accurate record of all approved deviations from the plans. These are to be utilized in preparing a complete and accurate set of "As-Built" plans for the permanent records of the County. The "As-Built" plans shall be prepared by the Consulting Engineer.

One complete set of reproducible plans, as prescribed by the Director of Public Works, shall be submitted to the Department of Public Works at such times as all corrections or additions requested by the Department of Public Works are complete and approved, and prior to issuance of plans for bidding purposes. These plans are to be retained and utilized by the Department of Public Works for preparing the "As-Built" plans.

- SPECIFICATIONS & GENERAL NOTES**
- Refer to the final map of this subdivision for all centerline and property line data.
  - All construction shall conform to the Cal-Traas Standard Specifications, dated January 1, 1981.
  - The Contractor shall, at his expense, obtain an encroachment permit from San Joaquin County before commencing work within the public right-of-way. The Contractor shall also obtain all other permits (excavation permit, etc.) as required by law. The Contractor shall notify the County prior to performing any work in the County right-of-way. The Contractor shall comply with all regulations of each public permit.
  - The existing underground utilities are plotted from information provided by the various utilities. The Contractor shall take precautionary measures to protect these utilities. The Contractor shall do no excavation until all utility agencies have been notified and have been given the opportunity to mark their facilities in the field. Contractor shall be responsible to notify and coordinate all work relative to the removal or relocation of any utility.
  - All asphaltic concrete edges shall be spaced prior to final paving.
  - Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety for all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner, the Engineer and County harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the Owner or Engineer.

**MATERIALS:**

- STORM DRAINS**  
Class III Asbestos Cement Pipe or Class III Reinforced Concrete Pipe
- SANITARY SEWER**  
Vitrified Clay Pipe
- ASPHALT CONCRETE**  
Type "B"; 3/4" Max.; Medium Grading; AR 4000
- AGGREGATE BASE**  
Class 2, 3/4" Max.
- AGGREGATE SUB-BASE**  
Class 1, Class 2, Class 3; or Class 4 conforming to the following:

SIEVE SIZE	% PASSING
2 1/2"	100
No. 200	2 - 35
Per Test Method No. Calif. 202	
SAND EQUIVALENT	20 (min.)
(Per Test Method No. Calif. 217)	
R VALUE	60 (min)
(Per Test Method No. Calif. 310; R Value may be waived if material meets gradation and other specifications of Class 1 Aggregate Sub Base.)	

**REVIEW DURING CONSTRUCTION**

Any improvements constructed to these specifications and which it is intended that the County or District will assume maintenance responsibility, must be reviewed during construction by an authorized agent of the Owner, Director of Public Works and District. Each phase of construction must be reviewed and approved prior to proceeding to the subsequent phases.

Any improvements constructed without review as provided above or constructed contrary to the orders of instructions of the authorized agent of the Owner, Director of Public Works and District will be deemed as not complying with San Joaquin County Standards and Specifications or District requirements, and will not be accepted by San Joaquin County and District for maintenance purposes.

The owner shall arrange to have compaction tests and other tests performed by a private engineering laboratory and shall provide the test results to the County for records. Tests by the private laboratory shall be paid for by the Owner except in cases where the test results indicate the Contractor failed to meet compaction requirements. Cost of tests which fail to meet compaction requirements shall be borne by the Contractor, and shall be deducted from Contractor's progress payments.

The Engineer (Director of Public Works or his agent) shall at all times have access to the work during its construction, and shall be furnished with every reasonable facility for ascertaining that the materials and the workmanship are in accordance with the requirements and intentions of these specifications, the Special Provisions, and the Plans. All work

done and all materials furnished shall be subject to his review. The review of the work or materials shall not relieve the Contractor, and Developer of any of their obligations to fulfill their contract as prescribed.

**FINAL REVIEW**

Upon completion of any improvements which are constructed under and in conformance with these Standards and Specifications, and prior to requesting final review, the area shall be thoroughly cleaned of all rubbish, excess material and equipment; and all portions of the work shall be left in a neat and orderly condition satisfactory to the Director of Public Works and Owner.

Within 10 days after receiving the request for final review, the Director of Public Works shall review the Work. The Contractor, Consulting Engineer, and Developer will be notified in writing as to any particular defects or deficiencies to be remedied. The Contractor shall proceed to correct any such defects or deficiencies at the earliest possible date. At such time as the work has been completed a second review shall be made by the Director of Public Works to determine if the previously mentioned defects have been repaired, altered and completed in accordance with these Standards and Specifications. At such time as the Consulting Engineer notifies the Director of Public Works in writing that the work has been completed in accordance with the approved plans and specifications the Director will recommend acceptance of the work to the Board of Supervisors. The Director will notify in writing the Contractor, Consulting Engineer and the Owner as to the date of approval and final acceptance.

NO.	REVISIONS	DATE	BY
1	Add Section during construction, As-Built Plans, and General Clause notes, revise Specifications & General Notes and Detail Notes, & House Lateral details per San Joaquin County.	4-15-81	AK

APPROVED

*April 20*

*San Joaquin*

for SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

**GLANTZ · DEIMLER · DORMAN**

**CONSULTING CIVIL ENGINEERS**

1100 W. ROBINWOOD DR. #C  
OAKLAND, CALIF. 94607  
(415) 478-5777

*Glantz*

CALIFORNIA R.E. 11659 / NEVADA P.E. 1676

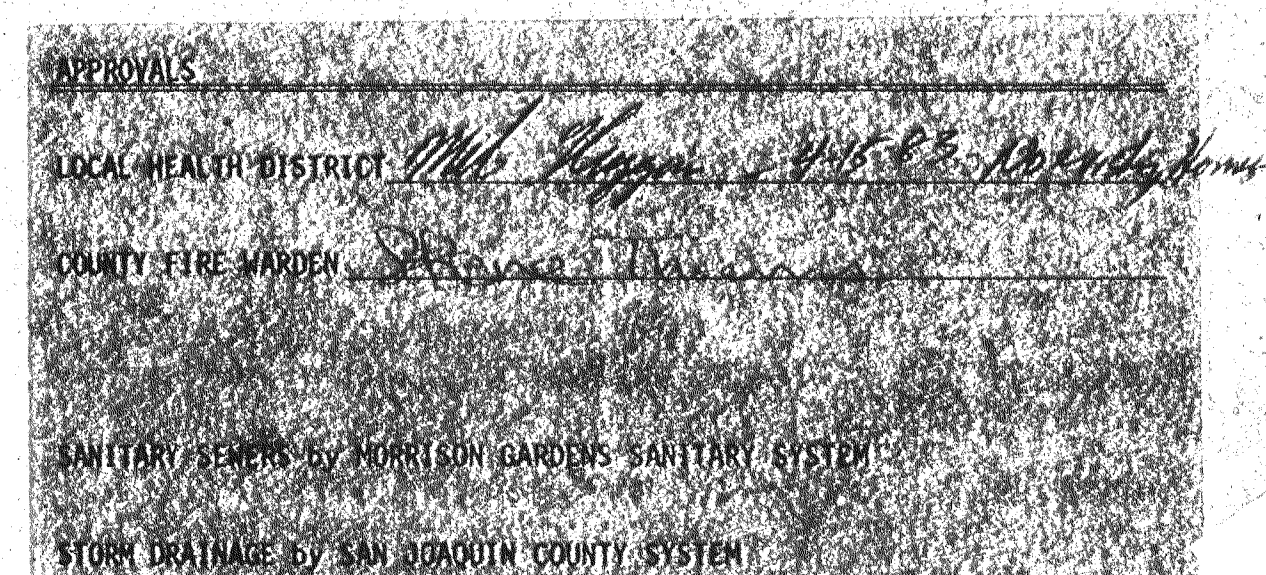
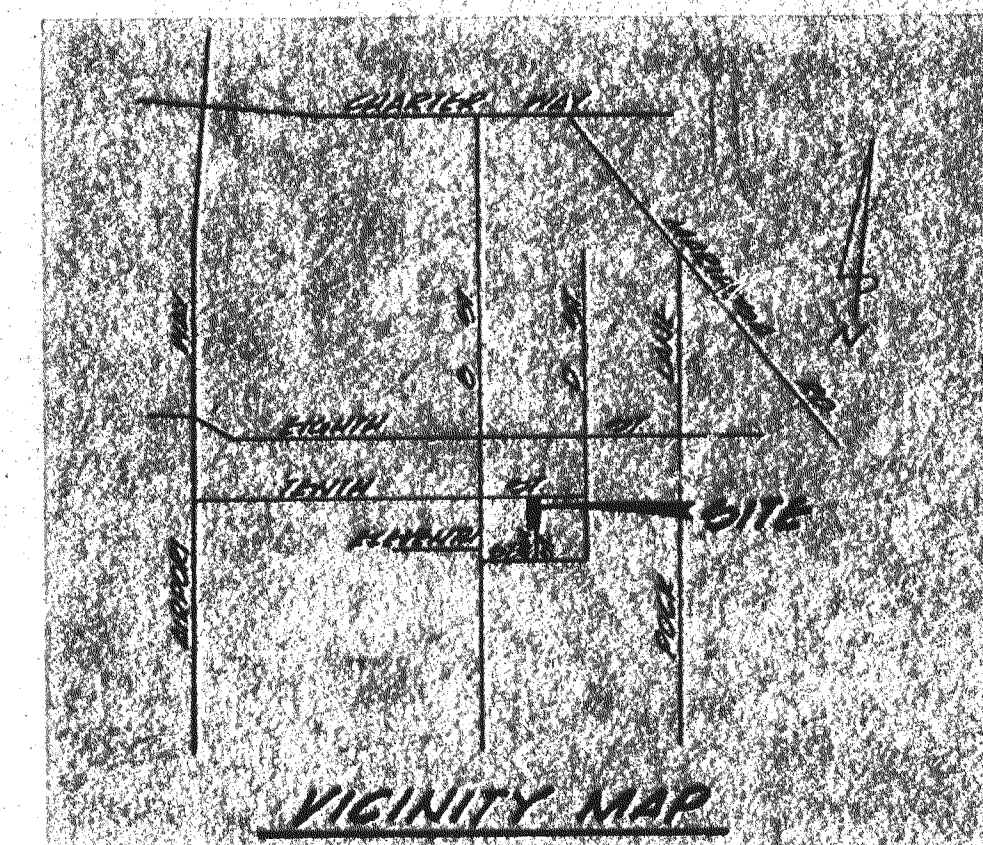
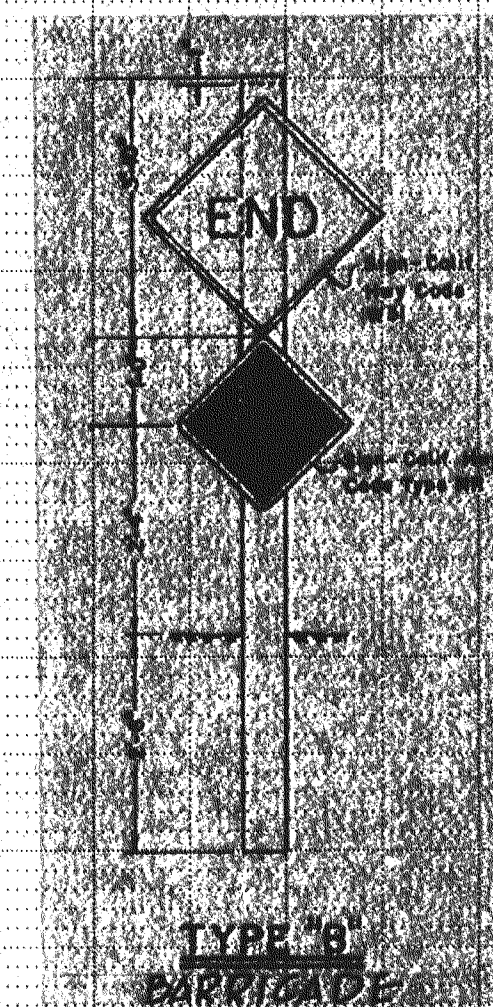
JOB NO. 07482
DATE FEB '81
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DESIGN
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IMPROVEMENT PLANS FOR EXTENSION OF SOUTH ASH STREET		SHEET 2
DETAIL SHEET		OF 2 FILE NO. A-1044

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WATER by CALIFORNIA WATER SERVICE

APPROVED April 20, 1983, 1983  
John A. Hargis  
for SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

JOB NO.	87AB2
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SHEET 1  
OF 8  
FILE NO. A-509