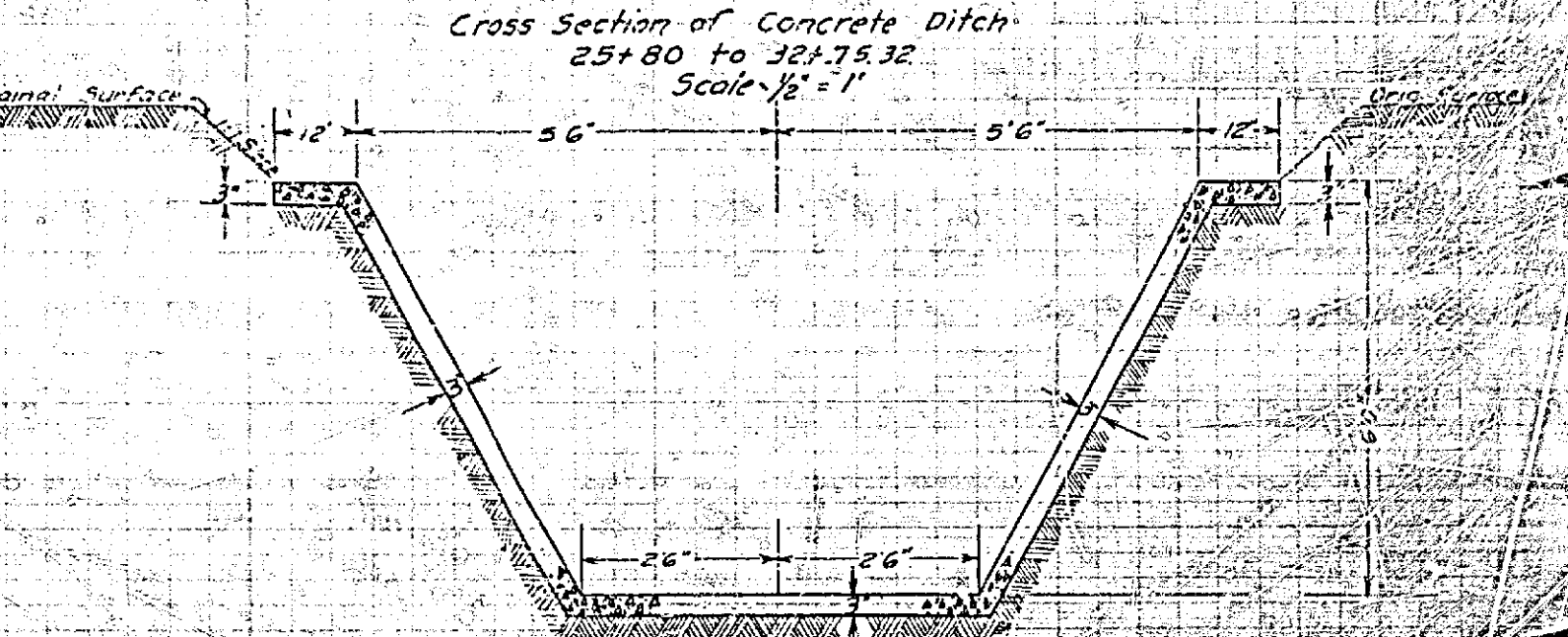
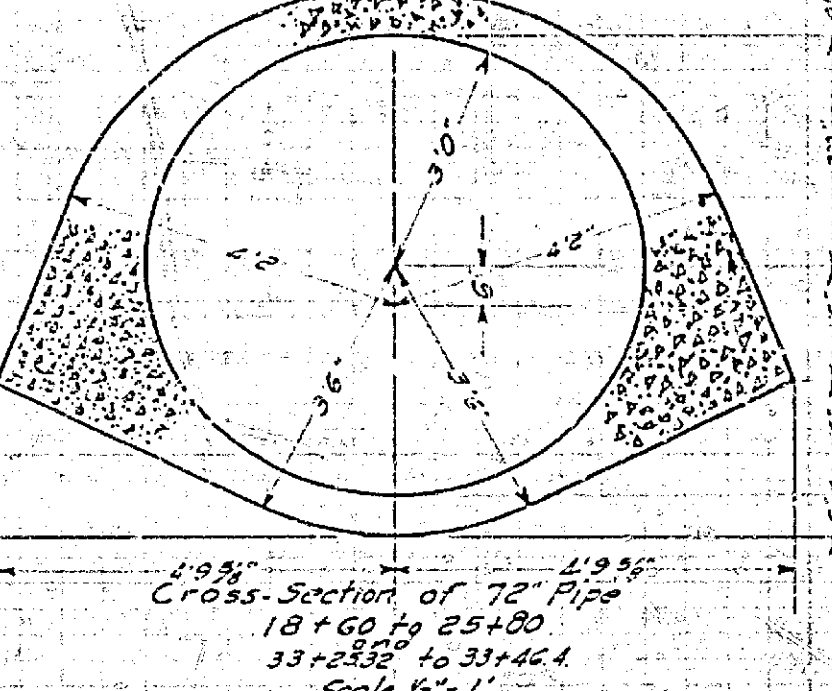
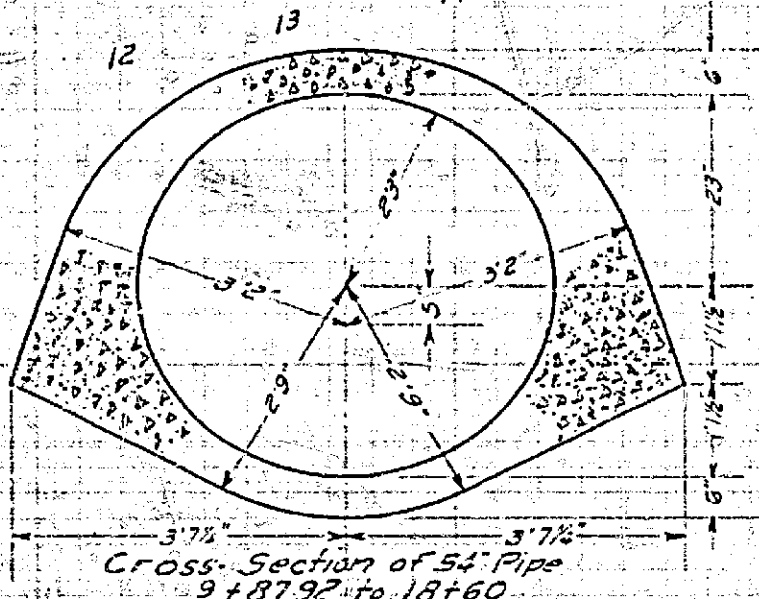
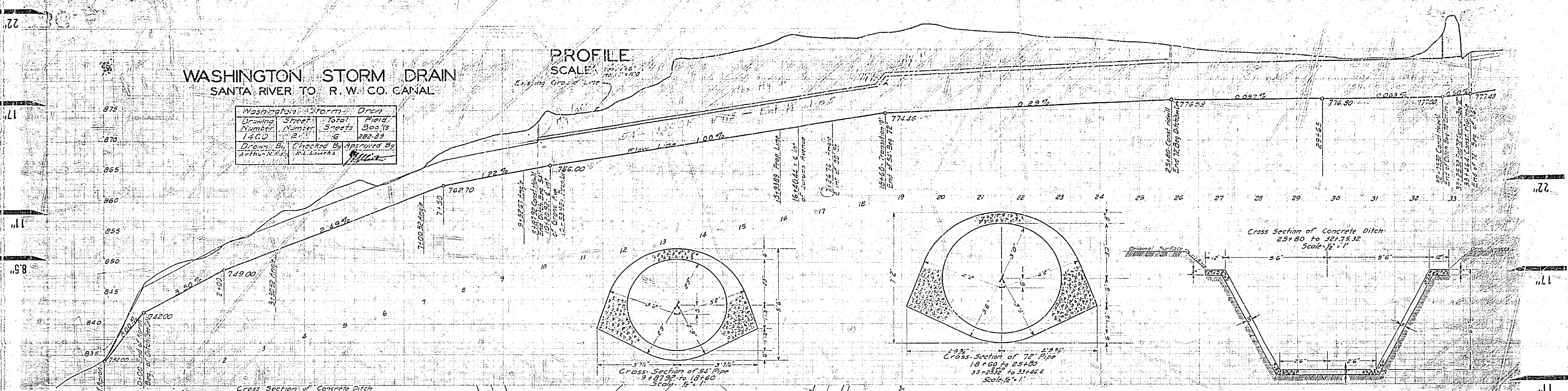


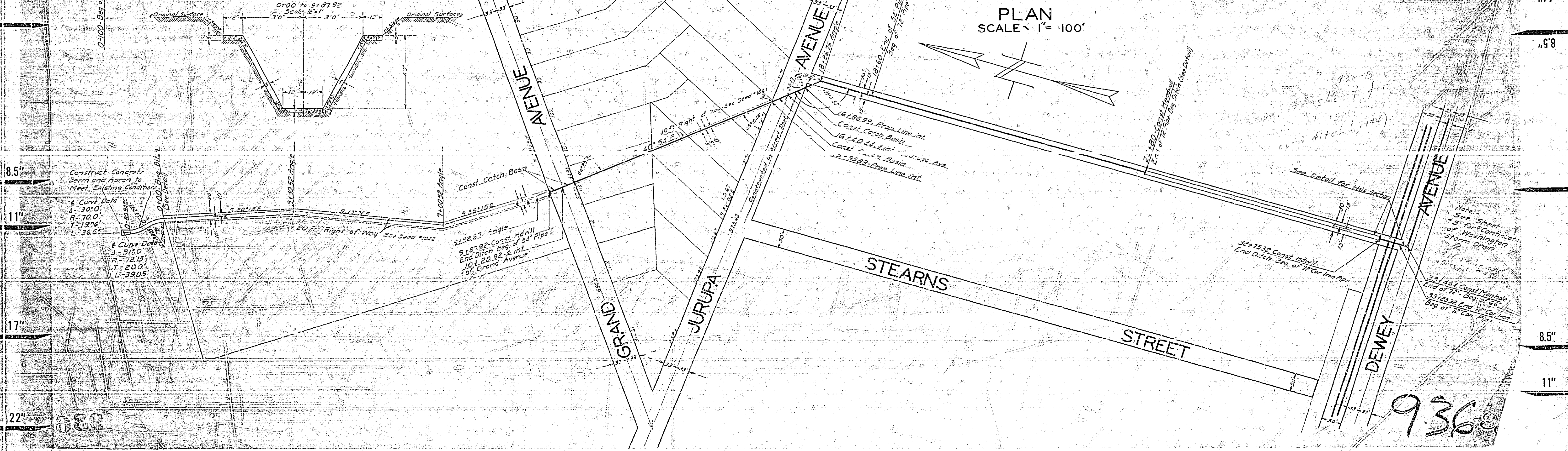
WASHINGTON STORM DRAIN SANTA RIVER TO R. W. CO. CANAL

Washington Storm Drain			
Drawing Number	Sheet	Total Sheets	Field No.
1460	2	6	282-23
Drawn By		Checked By	Approved By
Arthur Nicks		W.L. Lowels	<i>[Signature]</i>

PROFILE
SCALE 1" = 10'



PLAN
SCALE 1" = 100'



936

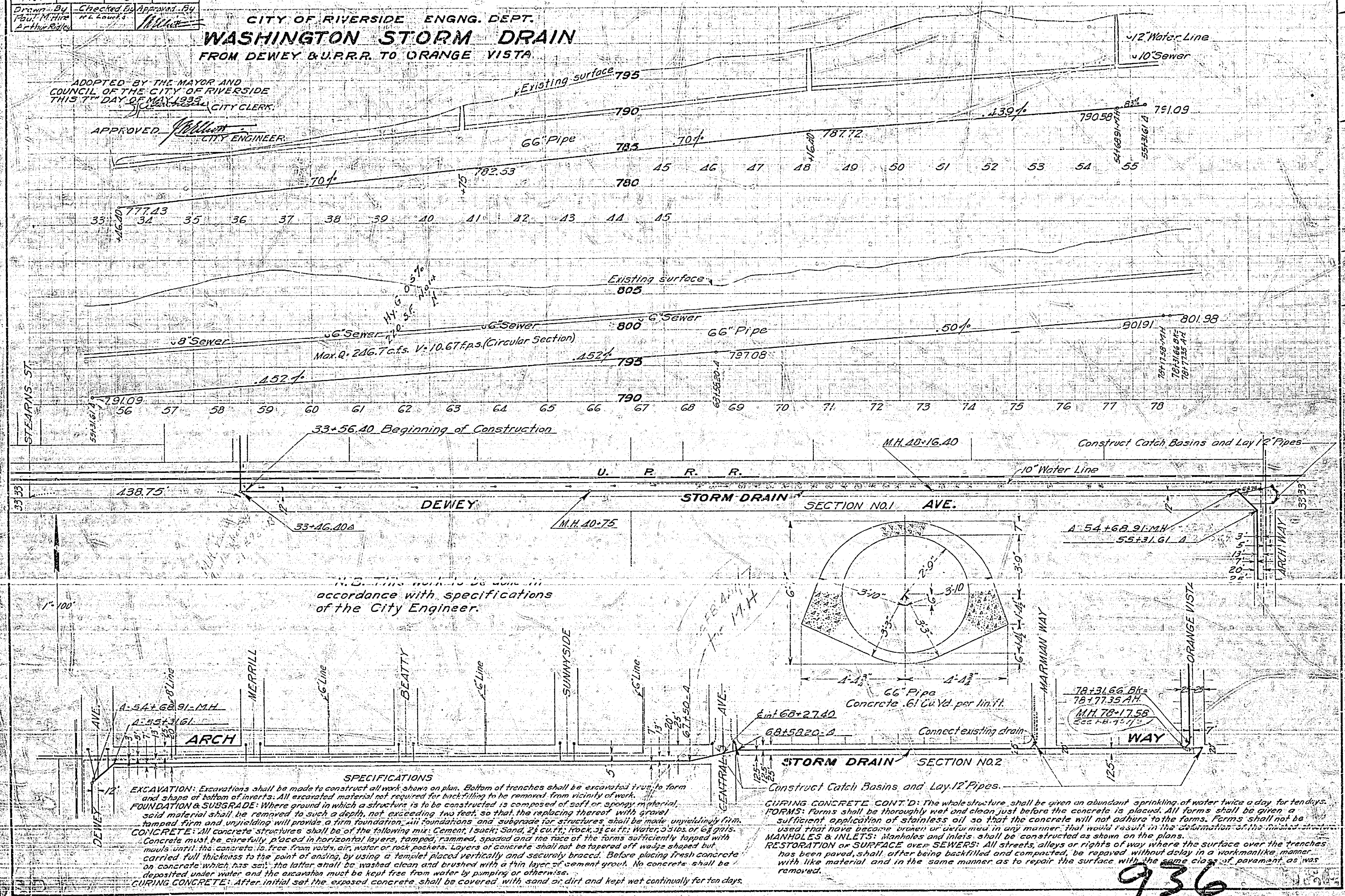
18

Washington Storm Drain			
Drawing Number	Sheet Number	Total Sheets	Field Books
4466	5	6	279-282
Drawn By	Checked By	Approved By	
Paul M. Hine	H. L. Lewis	[Signature]	

CITY OF RIVERSIDE ENGG. DEPT.
WASHINGTON STORM DRAIN
 FROM DEWEY & U.P.R.R. TO ORANGE VISTA

ADOPTED BY THE MAYOR AND COUNCIL OF THE CITY OF RIVERSIDE THIS 7TH DAY OF MAY 1933
 CITY CLERK

APPROVED [Signature]
 CITY ENGINEER



SPECIFICATIONS
EXCAVATION: Excavations shall be made to construct all work shown on plan. Bottom of trenches shall be excavated true to form and shape of bottom of inverts. All excavated material not required for backfilling to be removed from vicinity of work.
FOUNDATION & SUBGRADE: Where ground in which a structure is to be constructed is composed of soft or spongy material, said material shall be removed to such a depth, not exceeding two feet, so that the replacing thereof with gravel tamped firm and unyielding will provide a firm foundation. All foundations and subgrade for structures shall be made unyieldingly firm.
CONCRETE: All concrete structures shall be of the following mix: Cement, 1 sack; Sand, 2 1/2 cu ft; Rock, 3 1/2 cu ft; Water, 5 lbs. or 6 gals. Concrete must be carefully placed in horizontal layers, tamped, rammed, spaded and the face of the forms sufficiently tamped but carried full thickness to the point of ending, by using a trowel placed vertically and securely braced. Before placing fresh concrete on concrete which has set, the latter shall be washed clean and brushed with a thin layer of cement grout. No concrete shall be deposited under water and the excavation must be kept free from water by pumping or otherwise.
CURING CONCRETE: After initial set the exposed concrete shall be covered with sand or dirt and kept wet continually for ten days.

CURING CONCRETE, CONT'D: The whole structure shall be given an abundant sprinkling of water twice a day for ten days.
FORMS: Forms shall be thoroughly wet and clean just before the concrete is placed. All forms shall be given a sufficient application of stainless oil so that the concrete will not adhere to the forms. Forms shall not be used that have become broken or deformed in any manner that would result in the deformation of the finished structure.
MANHOLES & INLETS: Manholes and inlets shall be constructed as shown on the plans.
RESTORATION OF SURFACE OVER SEWERS: All streets, alleys or rights of way where the surface over the trenches has been paved, shall, after being backfilled and compacted, be repaired without delay in a workmanlike manner with like material and in the same manner as to repair the surface with the same class of pavement as was removed.

936

17

11

11

58

35

8.5

11

17

22

22

11

11

58

35

8.5

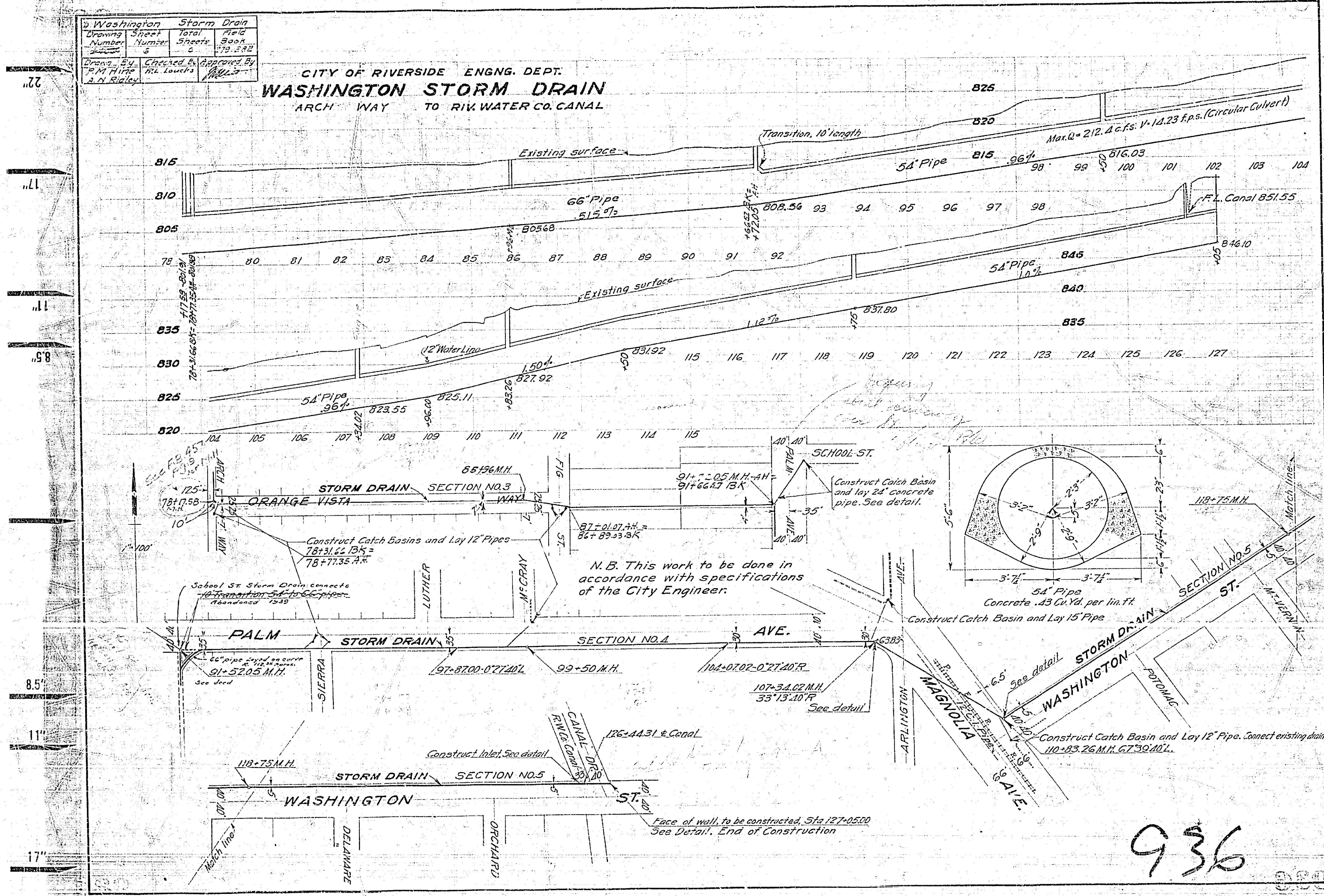
11

17

22

Washington Storm Drain			
Drawing Number	Sheet Number	Total Sheets	Field Book
179.332	6	6	179.332
Drawn By P.M. Hilde A.N. Riley		Checked By H.L. Loucks	
		Approved By [Signature]	

CITY OF RIVERSIDE ENGG. DEPT.
WASHINGTON STORM DRAIN
ARCH WAY TO RIV. WATER CO. CANAL



N.B. This work to be done in accordance with specifications of the City Engineer.

936

22"

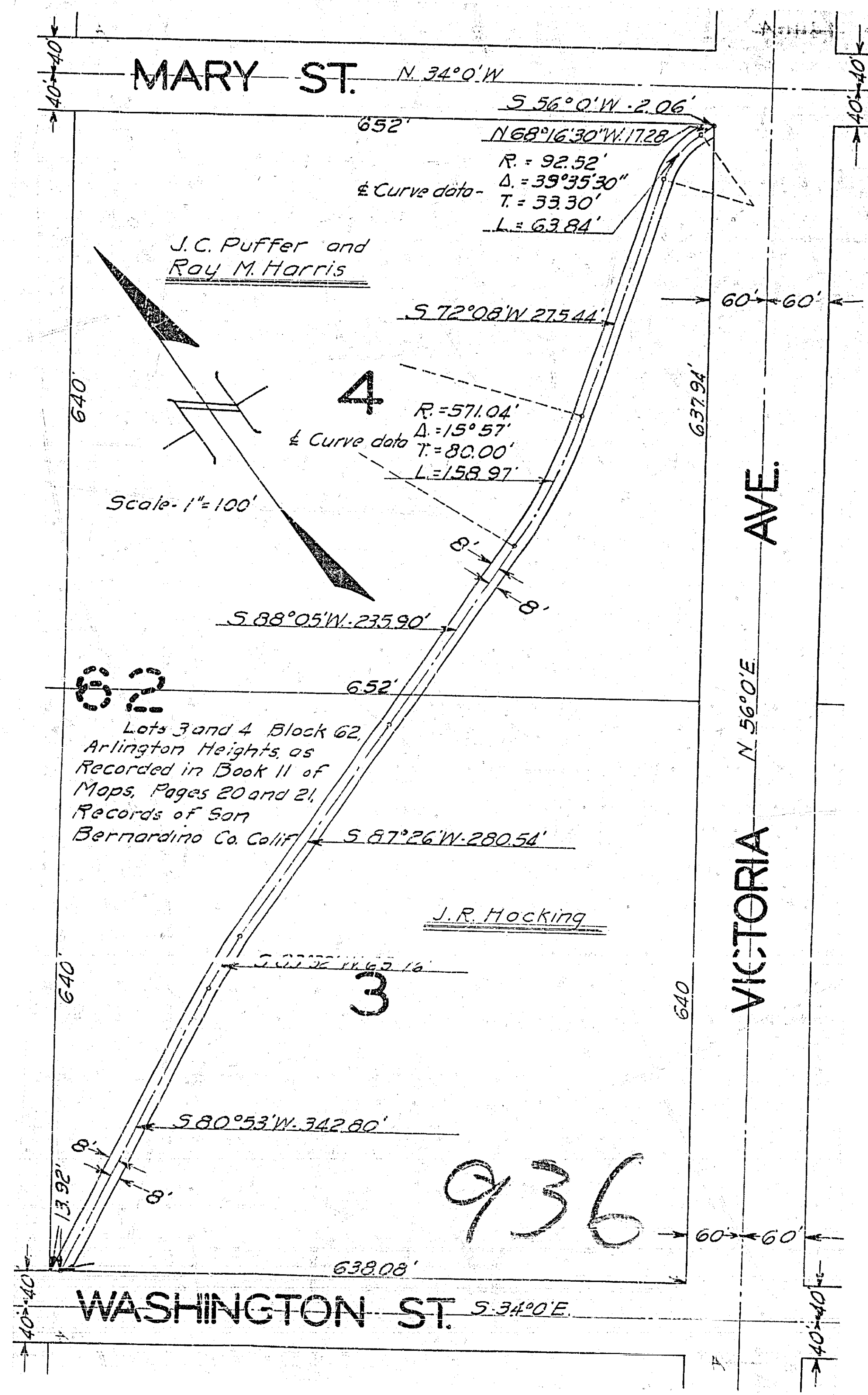
11"

11"

8.5"

8.5"

11"



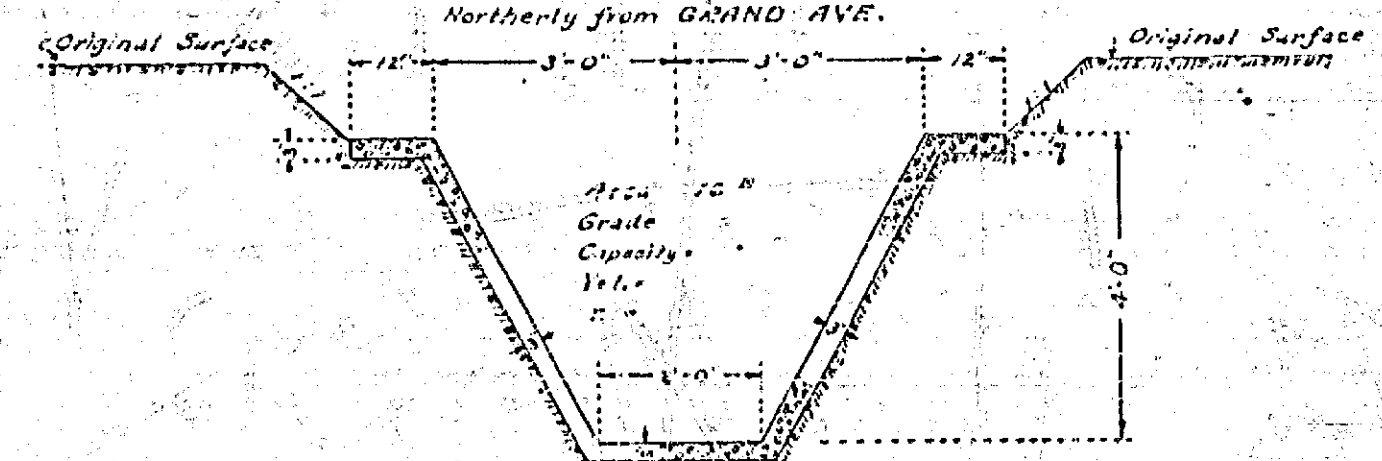
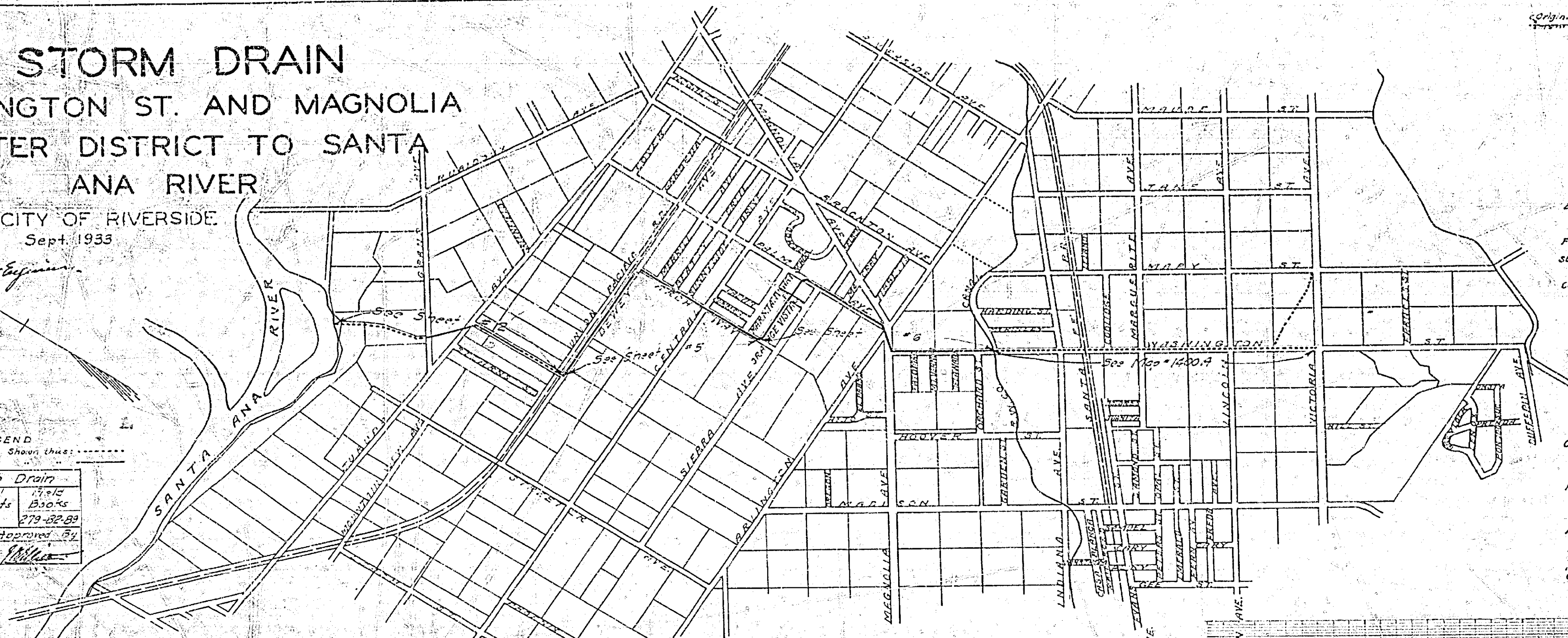
STORM DRAIN WASHINGTON ST. AND MAGNOLIA CENTER DISTRICT TO SANTA ANA RIVER

ENG. DEPT. CITY OF RIVERSIDE
Sept. 1933

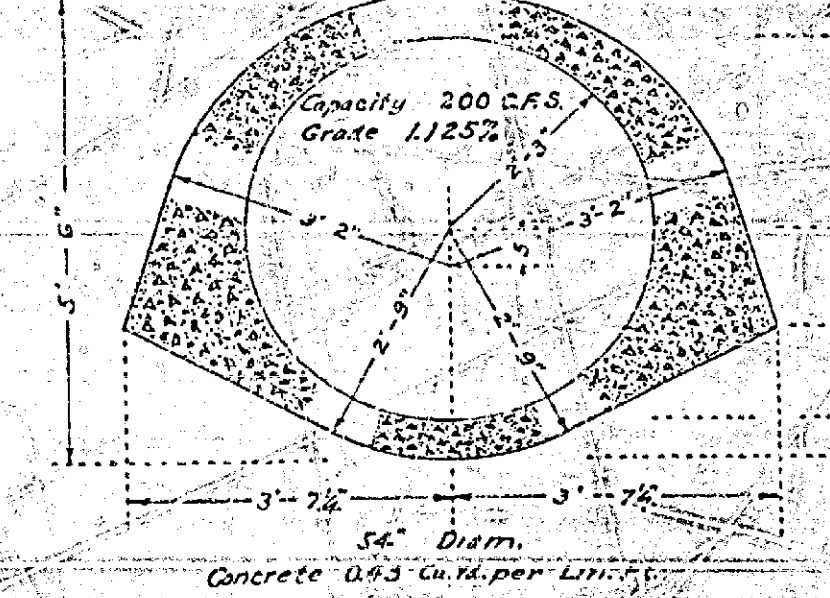
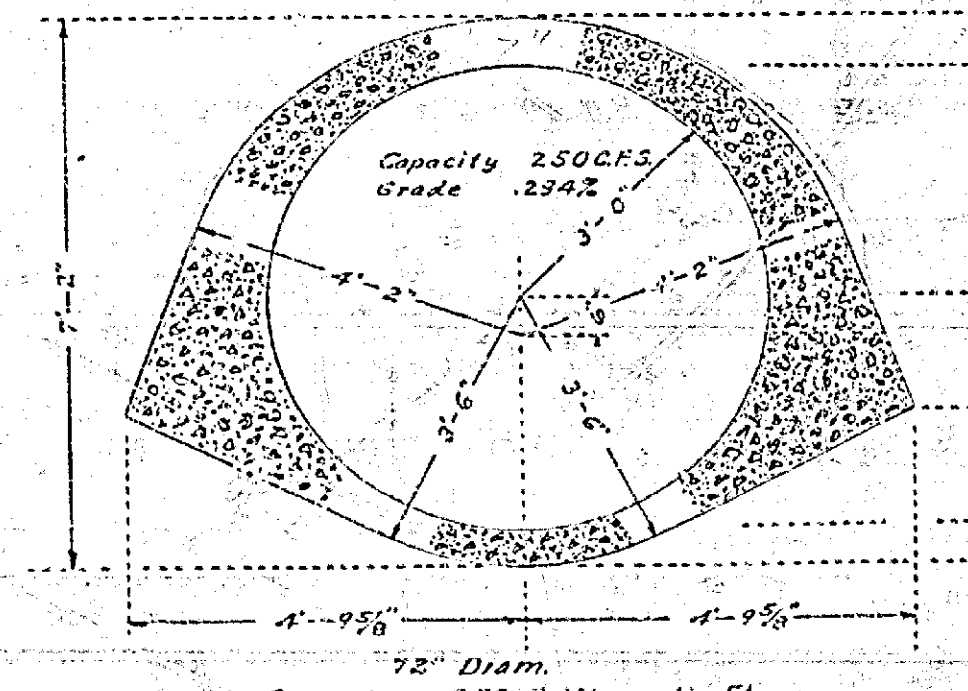
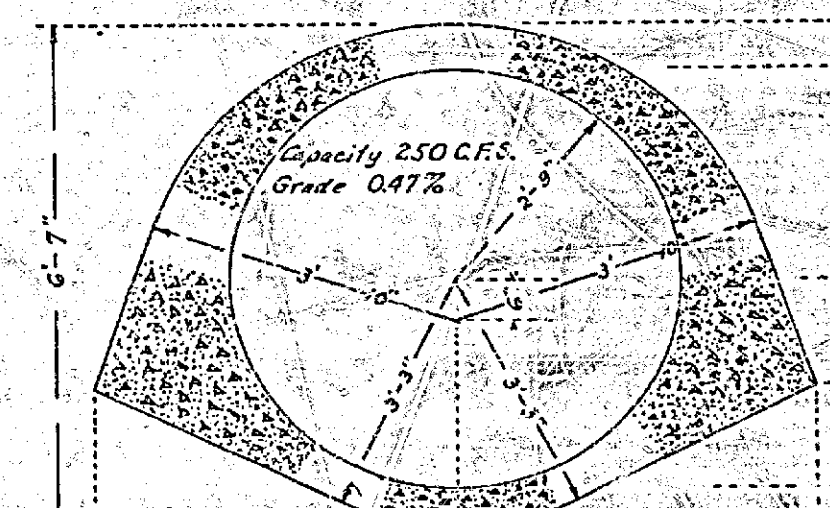
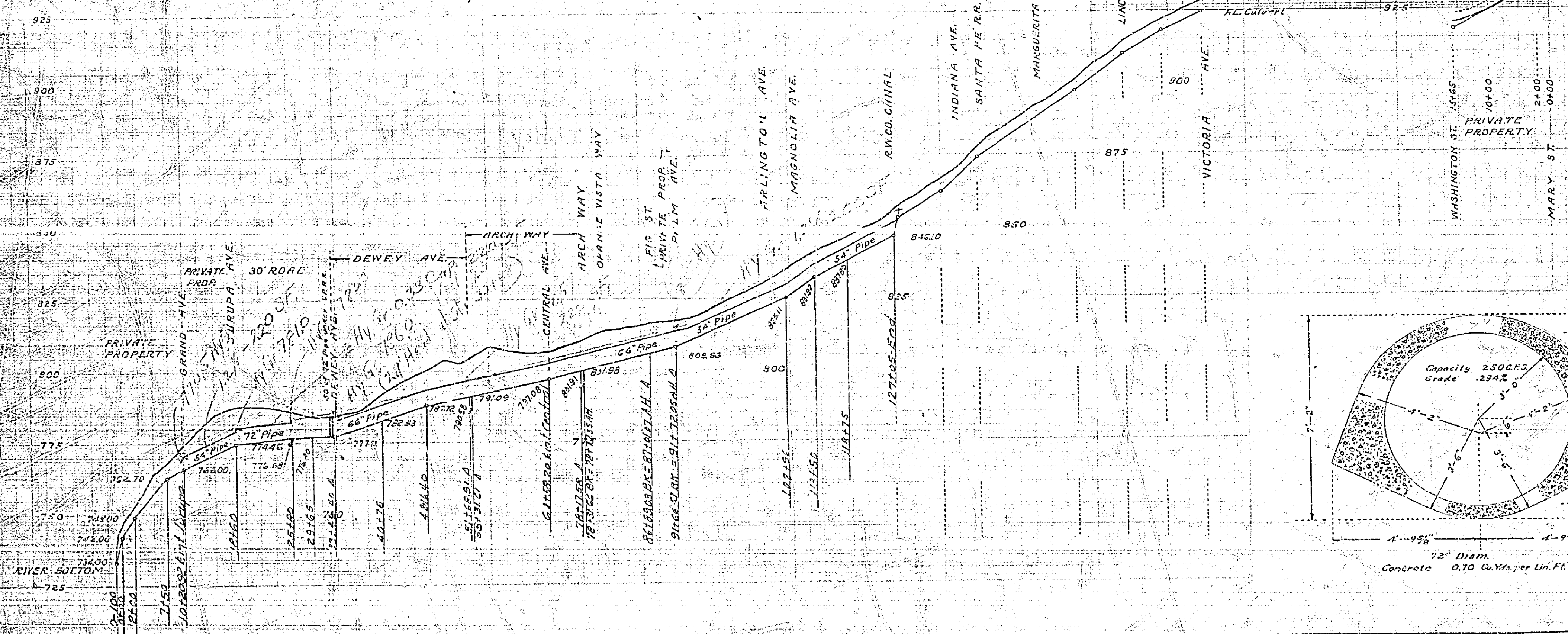
Robert C. Engman

LEGEND
OPEN DITCH Shown thus:
CULVERT

Washington Storm Drain			
Drawing Number	Sheet	Total Sheets	Total Feet
1400	1	6	279-52.89
Drawn By	Checked By	Approved By	
W.E. Mumby	M.L. Luvers	<i>[Signature]</i>	
Sept. 1933			



- SPECIFICATIONS FOR STORM DRAIN CULVERTS**
- EXCAVATION** Excavations shall be made to construct all work shown on plan. Bottom of trenches shall be excavated true to form and shape of bottom of inverts. All excavated material not required for backfilling to be removed from vicinity of work.
 - FOUNDATION & SUBGRADE** Where ground in which a structure is to be constructed is composed of soft or spongy material, said material shall be removed to such a depth, not exceeding two feet, so that the remaining strata will support a firm and unyielding firm foundation. All foundations and subgrade for structures shall be made unyieldingly firm.
 - CONCRETE** All concrete structures shall be of the following mix:
Cement -- 1 sack, Sand -- 2 1/2 cubic feet, rock -- 3/4 cubic feet.
Water -- 53 pounds or 6 3/4 gallons.
Concrete must be carefully placed in horizontal layers, tamped, rammed, spaded and the face of the forms sufficiently tamped with mats until the concrete is free from voids, air, water or pockets.
Layers of concrete shall not be tapered off wedged-shaped, but carried full thickness to the point of ending by using a tamped placed vertically and securely braced.
Before placing fresh concrete on concrete which has set, the latter shall be washed clean and brushed with a thin layer of cement grout.
No concrete shall be deposited under water and the excavation must be kept free from water by pumping or otherwise.
 - CURING CONCRETE** All exposed concrete shall be protected from the sun and wind with wet burlap, as soon as it can be placed upon the fresh concrete without marring the surface. After initial set, the exposed concrete shall be covered with sand or dirt and kept wet continuously for ten days. The whole structure shall be given an abundant sprinkling of water twice a day for ten days.
 - FORMS** Forms shall be built according to plans. Forms shall be thoroughly wet and clean just before the concrete is placed. All forms shall be given a sufficient application of stiff lard oil so that the concrete will not adhere to the forms. Forms shall not be used that have become broken or deformed in any manner that would result in the deformation of the finished structure.
 - MANHOLES** Manholes shall be constructed as shown on the plans.
 - INLETS** Inlets shall be built as shown on the plans.
 - RESTORATION OF SURFACE** All streets, alleys or rights of way where the surface over the trenches has been paved, shall, after being back-filled and compacted, be repaired without delay in a workmanlike manner with like material and in the same manner as to repair the surface with the same class of pavement as was removed.



936