

PLAN AND PROFILE FOR STREET IMPROVEMENTS FOR TRACT No. 3981 IN THE CITY OF SAN CLEMENTE, CALIFORNIA.

- GENERAL NOTES -

It shall be the responsibility of the Contractors to acquaint themselves with all obstructions such as curbs, conduits, wires, trees, pipe lines, etc., above or below the ground, and will be held responsible for any damage to existing facilities resulting from his operations, regardless of whether or not such facilities are shown on these plans.

SEWER SYSTEM

1. All sewer manholes, house connections, backfills, pavement replacement etc., shall be constructed in strict accordance with the standards and specifications of the City of San Clemente, and shall be subject to the approval of the City Engineer.
2. Sewer manhole frames and covers shall be adjusted by the sewer contractor to finish pavement grade after the pavement surface has been constructed, but prior to the application of seal coat. A class "B" concrete collar shall be poured around each adjusted frame in accordance with City standards.
3. All sewer main pipe shall be extra heavy clay pipe with compression type joints.
4. Manholes or drop manholes may be either brick or conc. pre-cast, of the size and dimensions as specified by City standards.
5. All sewer house connections shall be 4" vitrified clay pipe with compression joints. All house connections shall be connected to a 4" x 6" of the same size on the main or chimney. All house connections shall extend to the property line and shall be at least 4" below the gutter grade at curb line.
6. All sewer trenches shall be compacted to 95% of max. density at optimum moisture with a mechanical tamping device, as may be required by the City Engineer.
7. Exact locations of sewer house connections will be determined by the Tract Engineer, in the field and shall be referenced by the contractor to the letter "S" in the curb of the location where the house connection crosses the curb.

WATER SYSTEM

1. The water system shall be constructed after concrete curbs & gutters are poured & shall be in strict accordance with the standards and specifications of the City of San Clemente, and shall be subject to approval by the City Engineer.
2. All water main pipe shall be asbestos cement pipe, class 150, with rubber ring compression joints, and shall have a minimum cover of 24 inches.
3. All fittings, valves, fire hydrants, etc., shall have hub ends adapted for rubber ring compression joints.
4. Valves and fire hydrants shall be low, Kentsel, or approved equal. Fire hydrants shall have 2-2 1/2" hose connection with a 4" min. barrel diameter. All hydrants shall be painted orange as specified by the City. All hydrants shall have a 2" asbestos cement pipe lateral connection to the main with a 2" gate valve.
5. All gate valves shall receive a cast iron valve meter stop for each of the water system contractor to finish pavement grade after the finish pavement surface has been constructed, but prior to the application of a seal coat. A class "B" concrete collar shall be poured around each adjusted frame in accordance with City standards.
6. Class "B" concrete thrust blocks shall be poured at each fire hydrant, at all tees, bends, valves, dead ends, & other fittings, of sufficient size to accommodate all pipe thrusts.
7. Exact locations of house connections will be determined by the Tract Engineer, in the field.
8. All trenches shall be compacted to 95% of max. density at optimum moisture with a mechanical tamping device as may be required by the City Engineer.
9. The entire water system shall be disinfected by the contractor, as may be required by the City Engineer.
10. Upon completion, the entire system shall be tested by the contractor at 150 lbs./sq. in. pressure for 24 hours, & shall meet the satisfaction of the City Engineer.
11. All water house connections, of the size shown on the plans, shall be type "K" soft copper tubing & shall extend from a "tapped" asbestos cement casing on the main. All connections serving 2" or less shall be 1/2" in diameter. All connections serving 2" or more shall be 1/2" in diameter. All connections shall be installed in strict accordance with the standards and specifications of the City of San Clemente (see std. detail). The pipes shall be at least 24 inches below gutter grade of curb line and shall be brought up behind curb at the proper position to accommodate meters. There shall be a 1" angle meter stop for each of the water system contractor to finish pavement grade after the finish pavement surface has been constructed, but prior to the application of a seal coat. A class "B" concrete collar shall be poured around each adjusted frame in accordance with City standards.
12. All asbestos cement pipe shall be steam cured in conformance to ASTM std. Spec. C 490-62T and shall be tested in the State of California. Evidence of steam curing & testing shall be furnished to City Engineer upon request from Contractor.

CONCRETE AND PAVING

1. All street improvements shall be constructed in strict accordance with the std. details & specifications of the City of San Clemente.
2. All concrete used shall be class "A" concrete (5 sacks cement per cu. yd.).
3. All cross gutters shall be 24" wide & curb gutters shall be 24" wide.
4. Aggregate base shall be class II having a 1 1/2" maximum grading or decomposed granite having a 3/4" grading and acceptable to the City Engineer.
5. Asphaltic concrete plant mix pavement (type "A") shall have a medium grading specified for 3/4" max. aggregate. The oil shall have paving grade with 85-100 penetration. Plant mix shall be laid in two 1 1/2" courses first course may be pipe laid graded, second course shall be machine laid.
6. The seal coat shall be 50-70 not asphaltic emulsion applied at the rate of 0.15 gal./sq. ft.
7. Concrete class "B" sidewalks shall be built in accordance with City specifications and shall have a sand subbase as required by SWI.
8. All underground utilities, electric, water, telephone and/or sewer, installed under existing curb & gutter shall be placed under such curb & gutter by first boring a hole no larger than 1" plus the diameter of the utility to be installed, then inserting the utility or utilities through such hole to the respective housing box behind the curb.

- QUANTITY ESTIMATE -

1	Const. 3" R.M.S. over 3" rock base	71,100.00 S.F.
2	Const. 8" R.C. Curb & Gutter	3,741.87 L.F.
3	Const. 8" R.C. Curb over 3" gutter return	7,800 L.F.
4	Const. 8" R.C. Curb over 3" gutter	7,800 S.F.
5	Const. 8" R.C. Sidewalk	12,882.00 S.F.
6	Street sign	2 only
7	Stop sign	2 only
8	Guard pannel	40.00 L.F.
9	Excavation	25,780.00 C.Y.
- Sewer -		
1	Const. 8" R.C.P. sewer	1,973.00 L.F.
2	Const. 8" R.C. Manholes	2 only
3	Const. 4" R.C.P. sewer	1,230.00 L.F.
- Water -		
1	8" A.C. water main	488.00 L.F.
2	6" A.C. water main	1,271.00 L.F.
3	Fire hydrants	5 only
4	Meters	5
5	Tees	2
6	Elbows	1
7	2" Blow off	2
8	Flange (blind)	2
9	Double water services	24 only, 12 single water services 2 only
- Storm Drain -		
1	18" C.M.P. 14 ga.	205 L.F.
2	Grate opening catch basins	2 only
3	24" R.C.P. 1750 D	2 L.F.
4	Std. catch basins	2 only

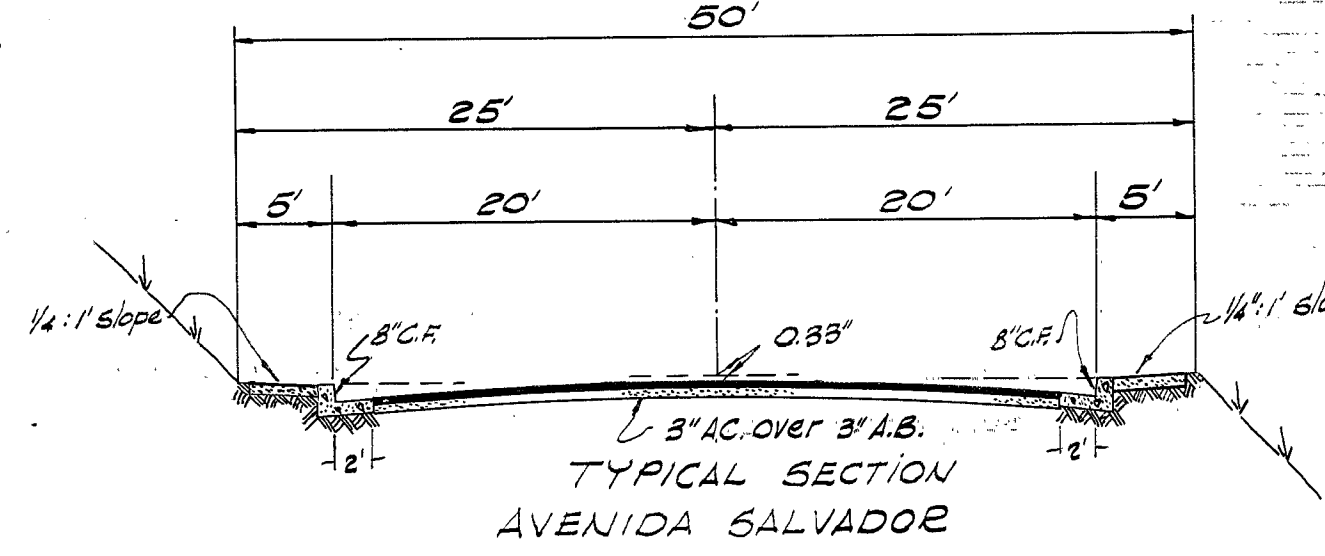
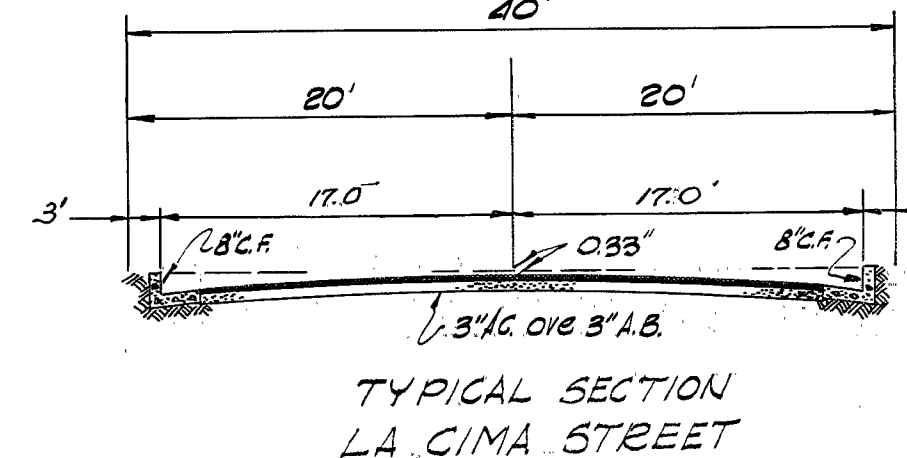
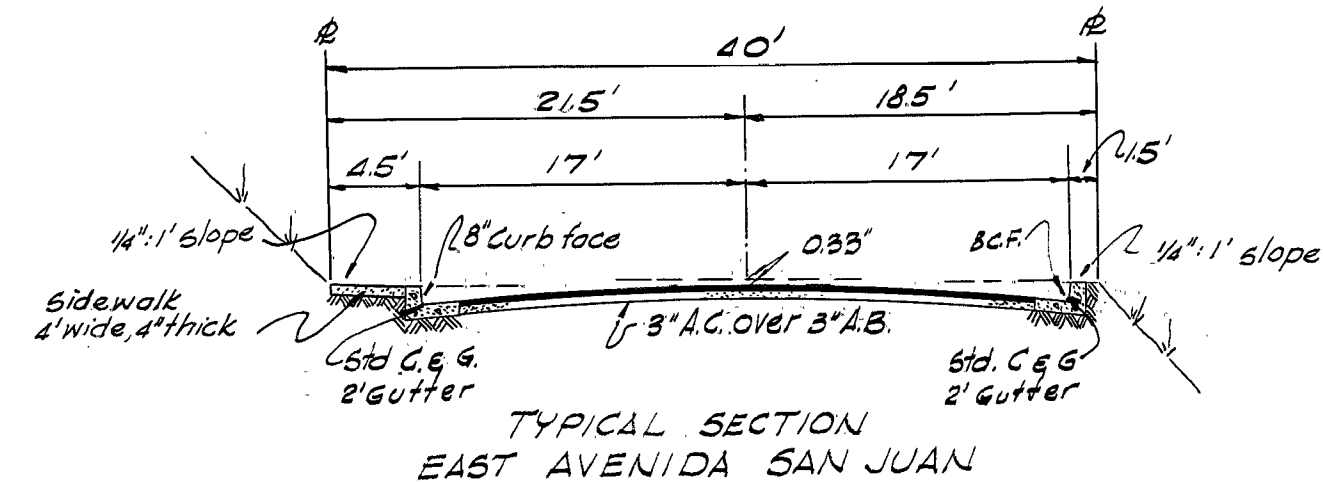
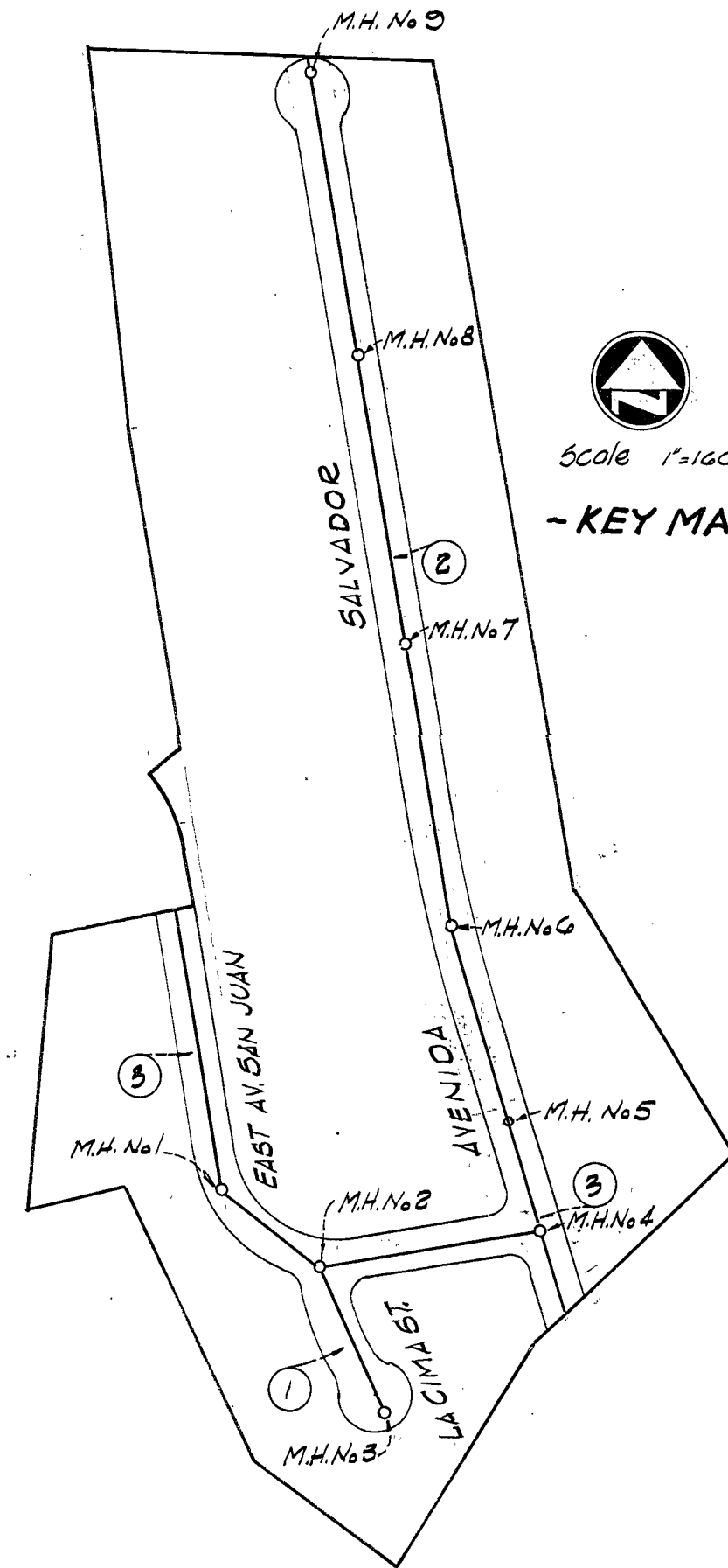
PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The existence and location of any underground utility pipe or structure shown on these plans were obtained by a search of the available records. To the best of our knowledge, there are no existing utilities except as shown on these plans. The Contractor is required to take precautionary measures to protect the utility lines shown and any lines not of record or not shown these plans.

PREPARED BY:
HUNTINGTON ENGINEERING CORP.
7355 SLATER AVENUE
HUNTINGTON BEACH, CALIF.

UNDER THE SUPERVISION OF: *Terrence L. Babey*
TERRENCE L. BABEY R.C.E. 14010

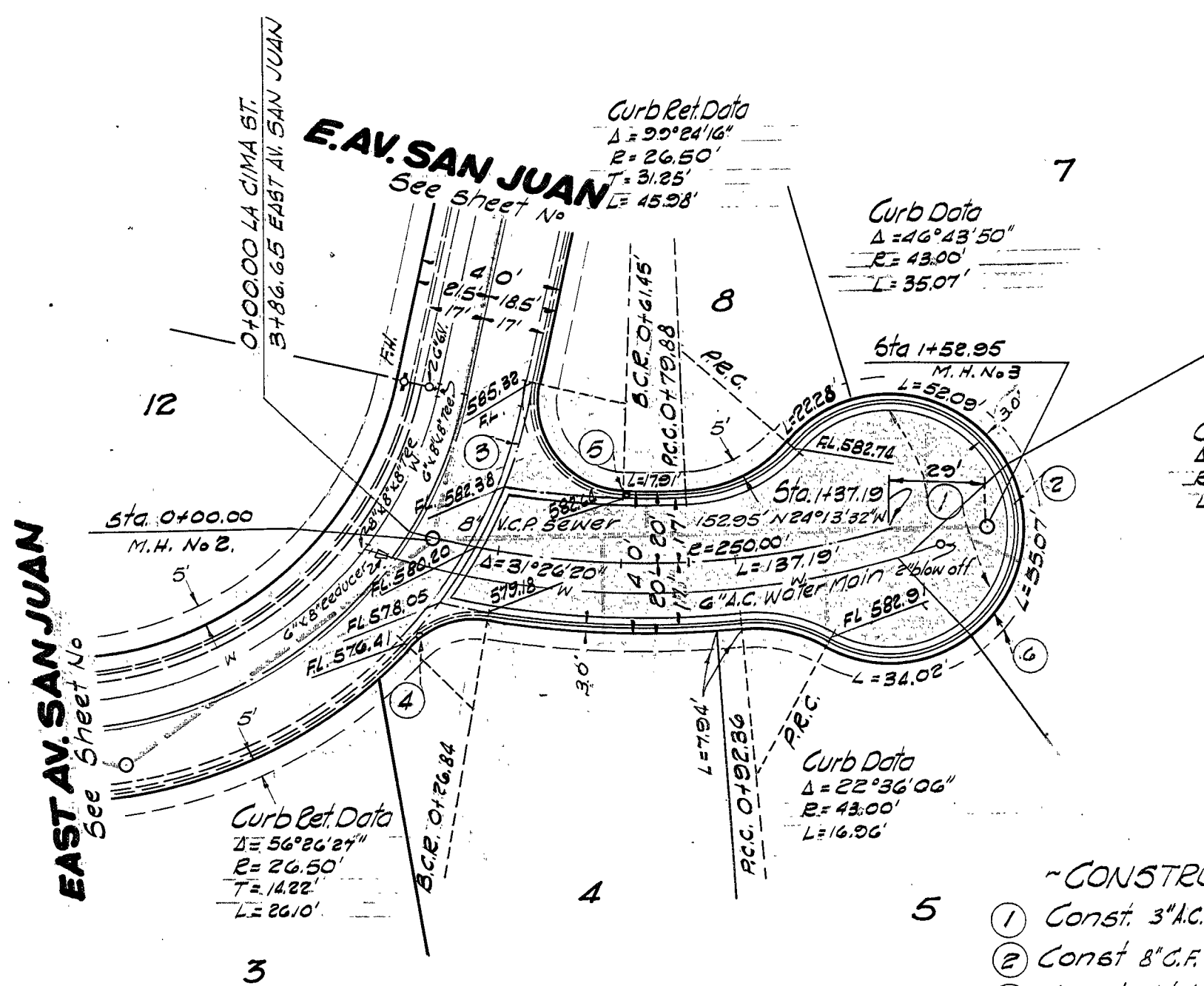
APPROVED BY:
CITY ENGINEER: *Eugene H. Ayes* DATE: 1-2-64
EUGENE H. AYES



- CONSTRUCTIONS NOTES -

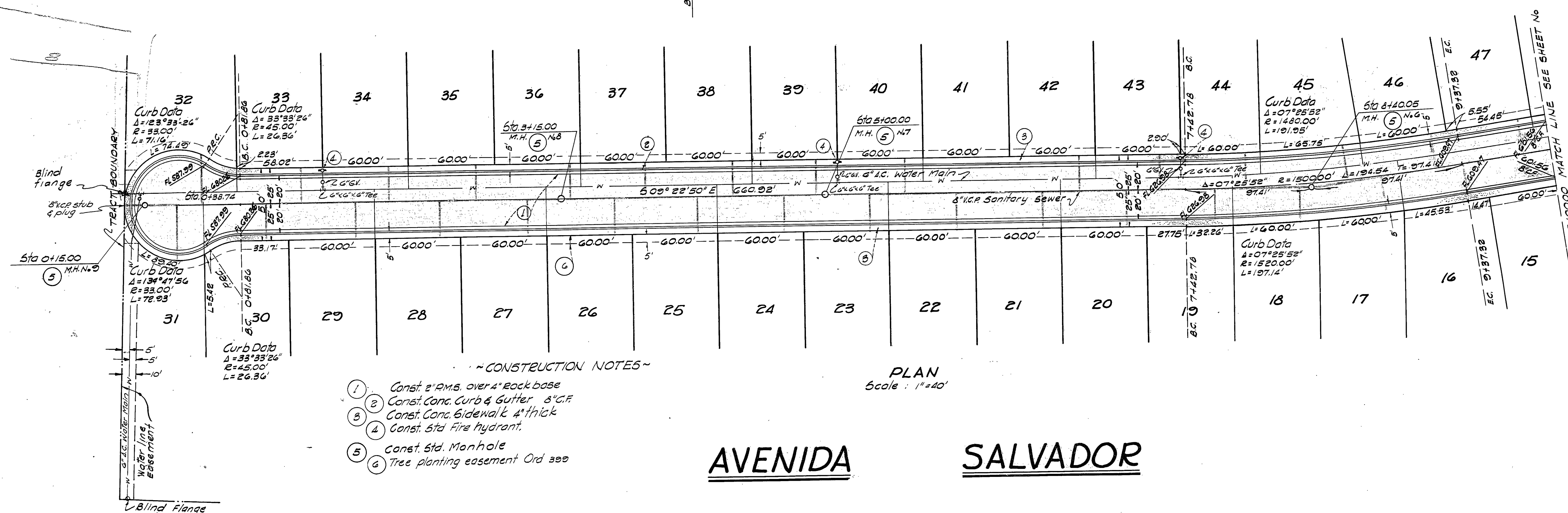
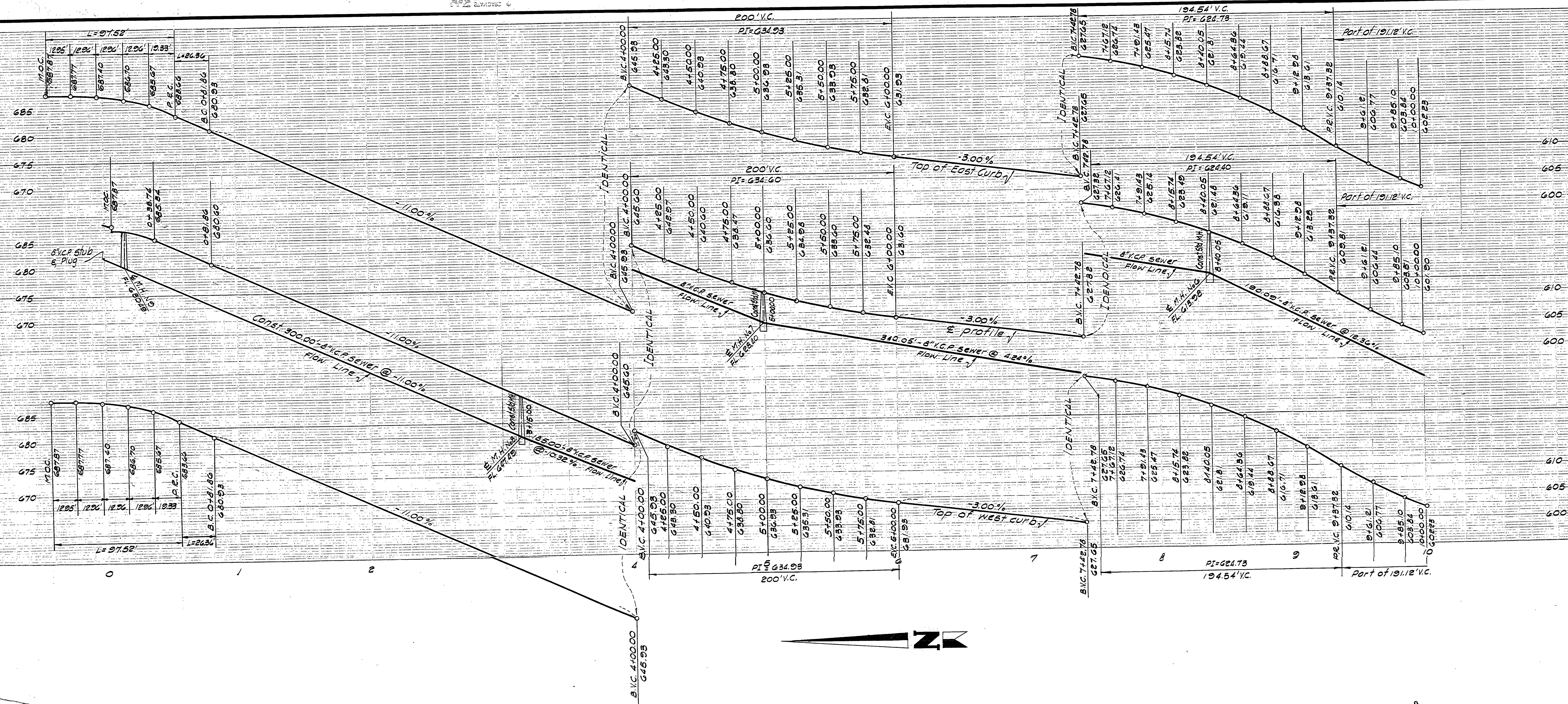
1. Const. 3" R.C. over 3" A.B.
2. Const. 8" R.C. Conc. Curb & Gutter
3. Const. Std. Cross Gutter
4. Install Street Sign
5. Install Stop Sign
6. Tree planting easement ord. 300

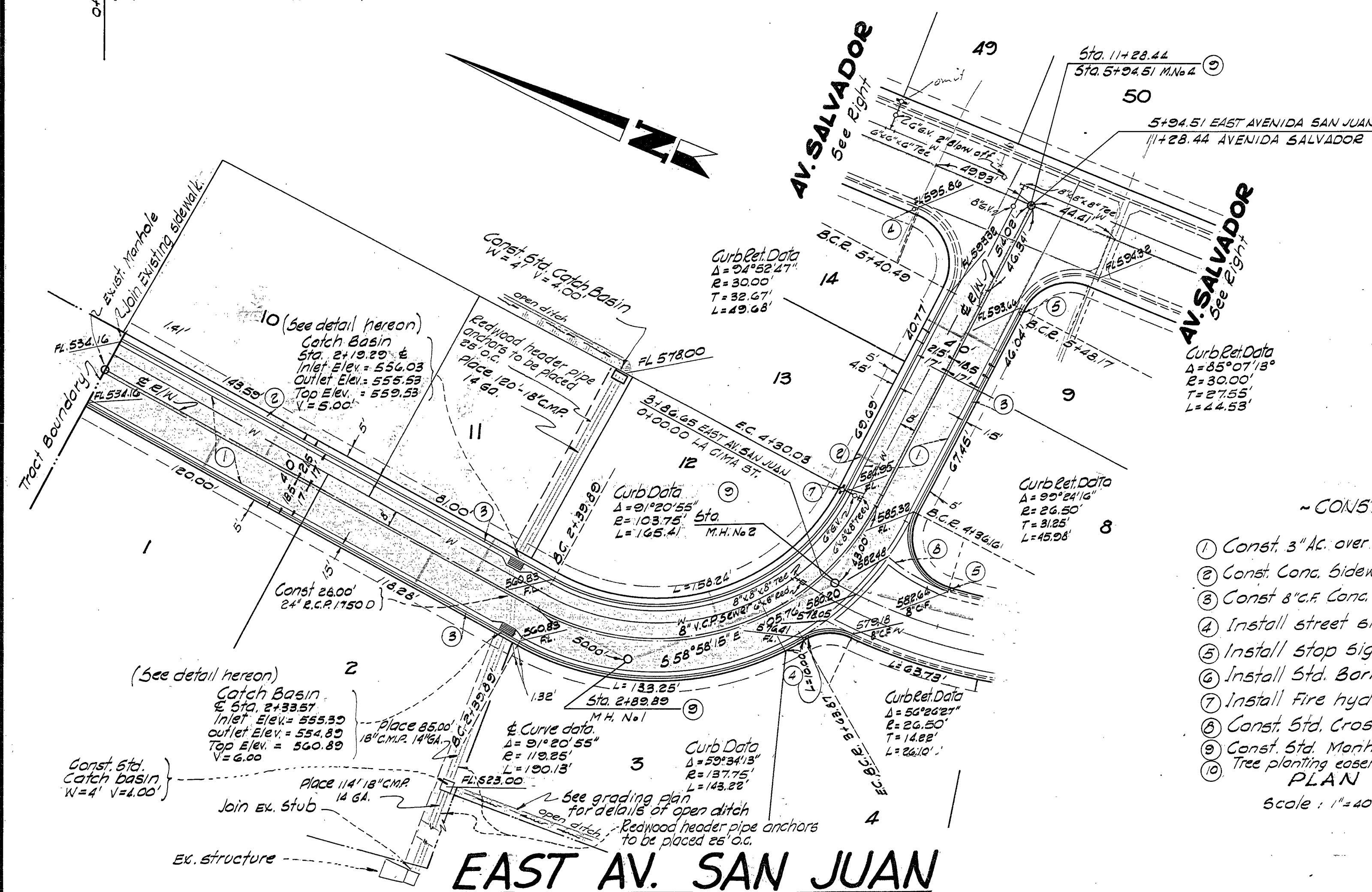
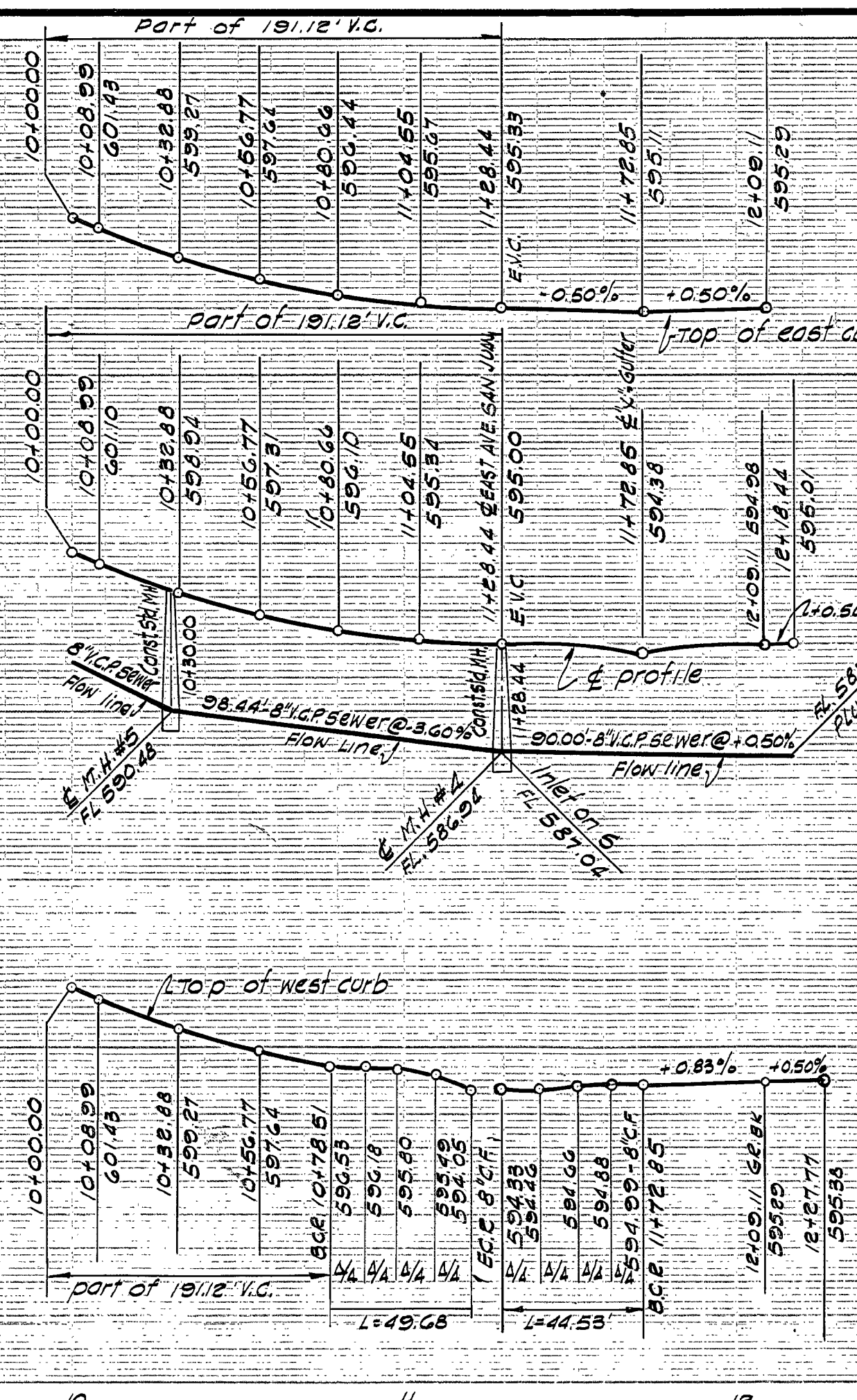
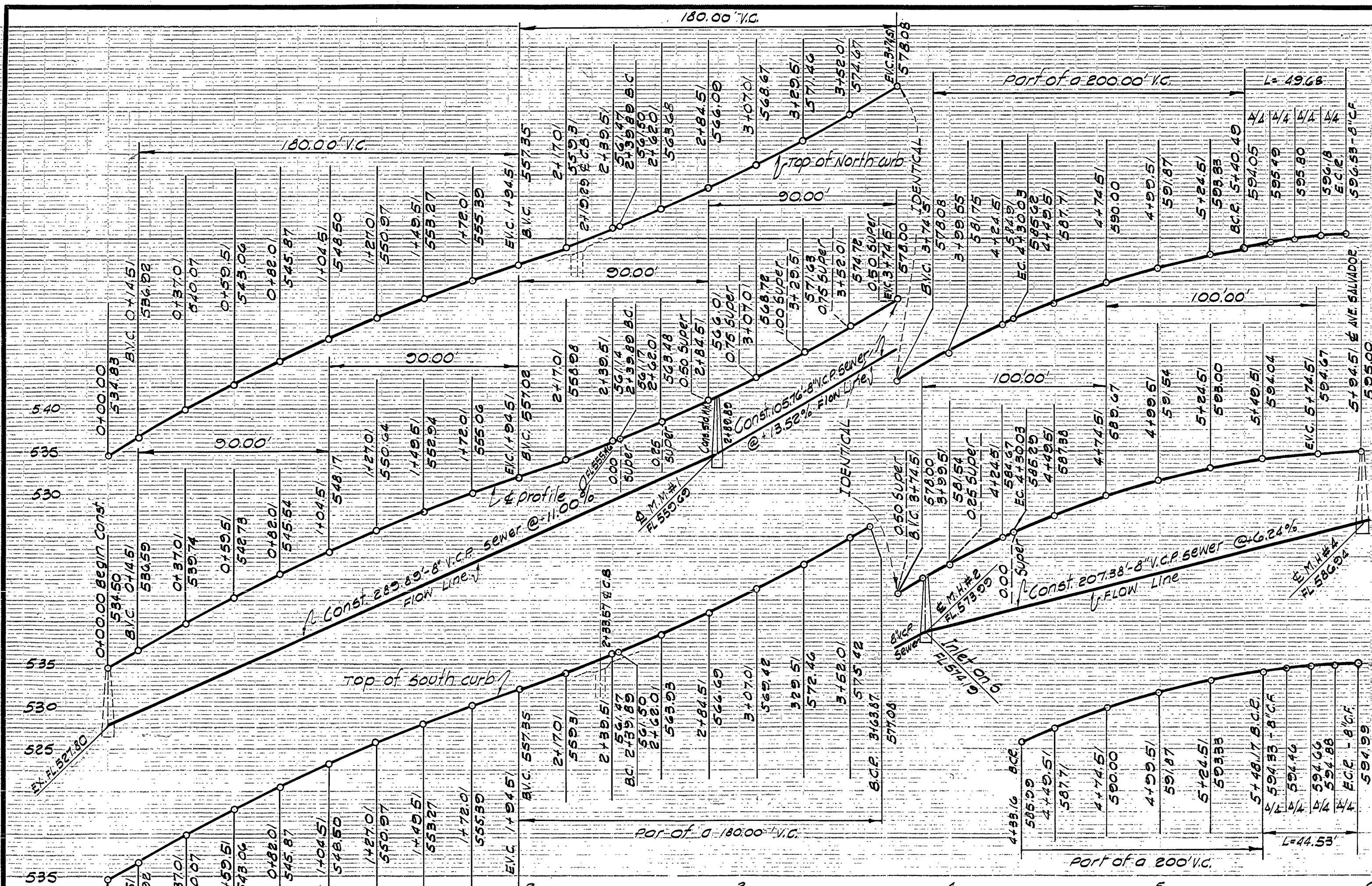
PLAN
Scale: 1" = 40'
LA CIMA ST.



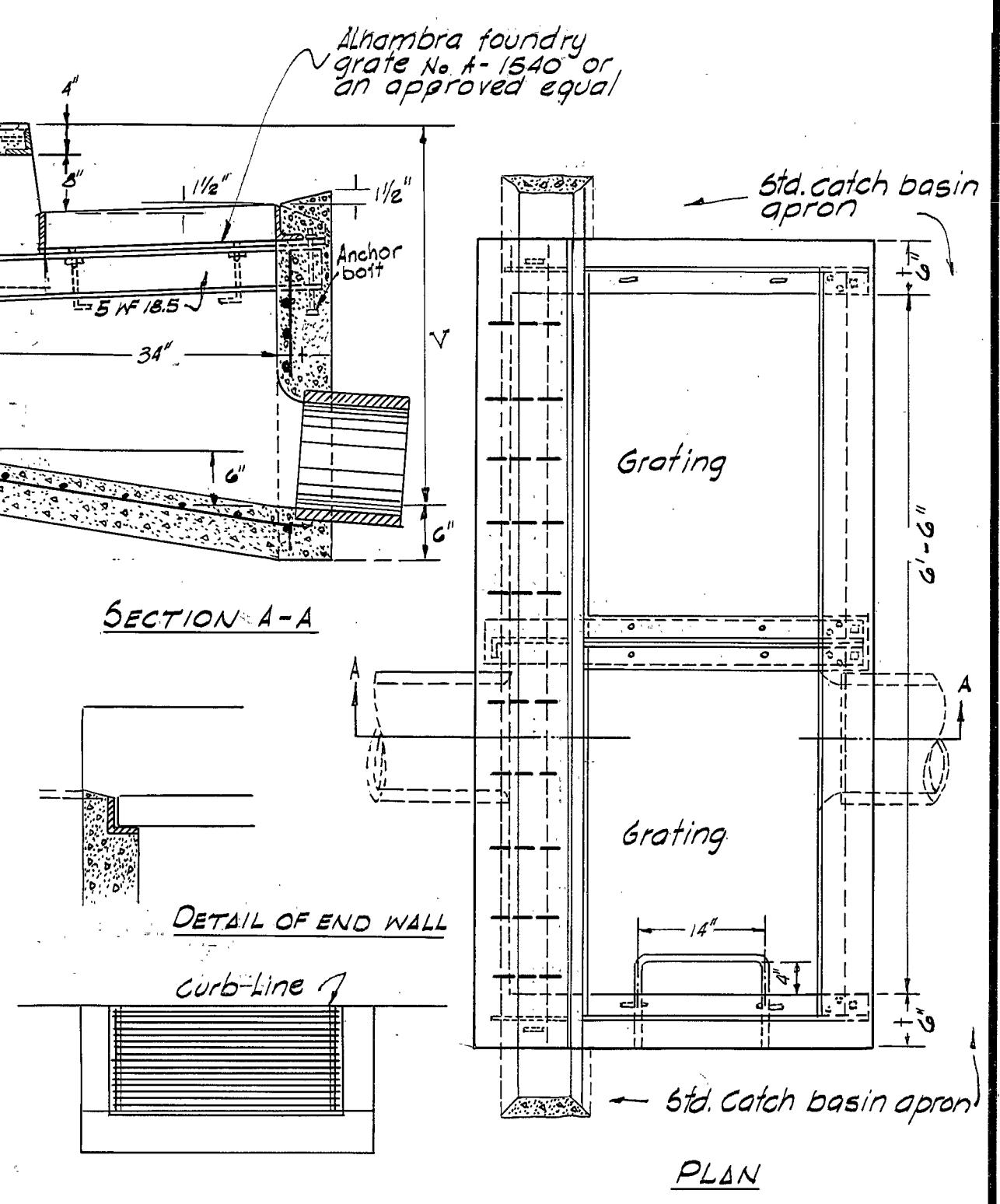
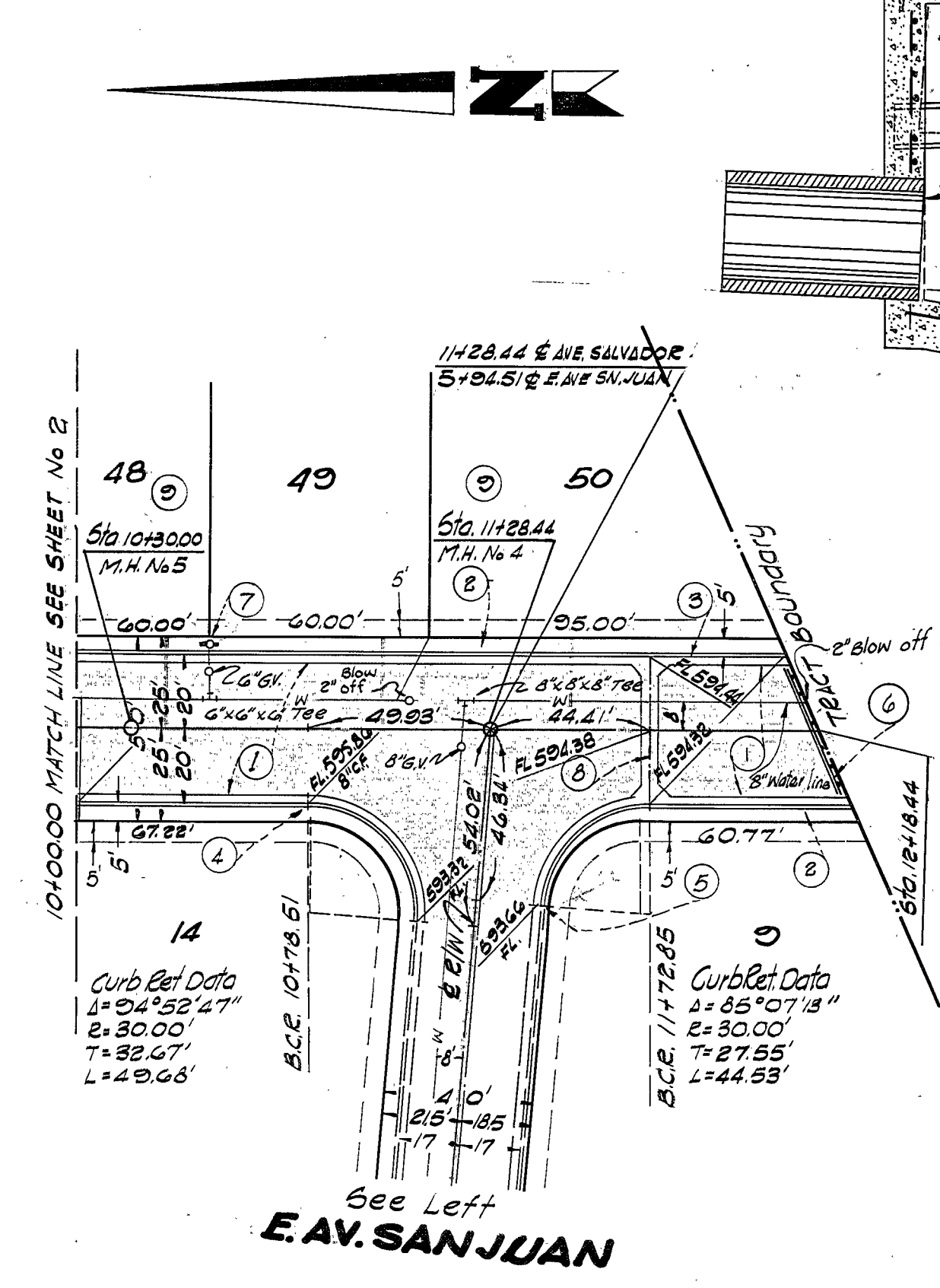
EAST AV. SAN JUAN
See Sheet No. 2

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- ~ CONSTRUCTION NOTES ~
1. Const. 3" AC over 3" AB.
 2. Const. Conc. Sidewalk 4" thick 1/2" sand base
 3. Const. 8" c/c Conc. Curb & Gutter
 4. Install street sign
 5. Install stop sign
 6. Install Std. Barricade
 7. Install Fire hydrant
 8. Const. Std. Cross-Gutter Ret City Standards
 9. Const. Std. Manhole Ret City Standards
 10. Tree planting easement Ord 300
- PLAN
Scale: 1"=40'



Note: All walls shall be reinforced with #3 @ 6" o.c. both ways with 2" clearance from inside face.

~ CATCH BASIN ~

Catch basin shall conform to std plan No. 304 of the Orange County Highway Department standard plans dated 6-7-61

AVENIDA SALVADOR

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