

VICINITY MAP

CONSTRUCTION PLANS & SPECIFICATIONS

THORNTON ROAD IMPROVEMENT PROJECT

CITY OF FERNDALE
 P.O. BOX 936
 FERNDALE, WA. 98248

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NORTHWEST CONSULTANTS

1401 Astor Street, Bellingham, Washington 98225 (206-676-9058)

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Drawn By _____
Checked By _____
Approved _____

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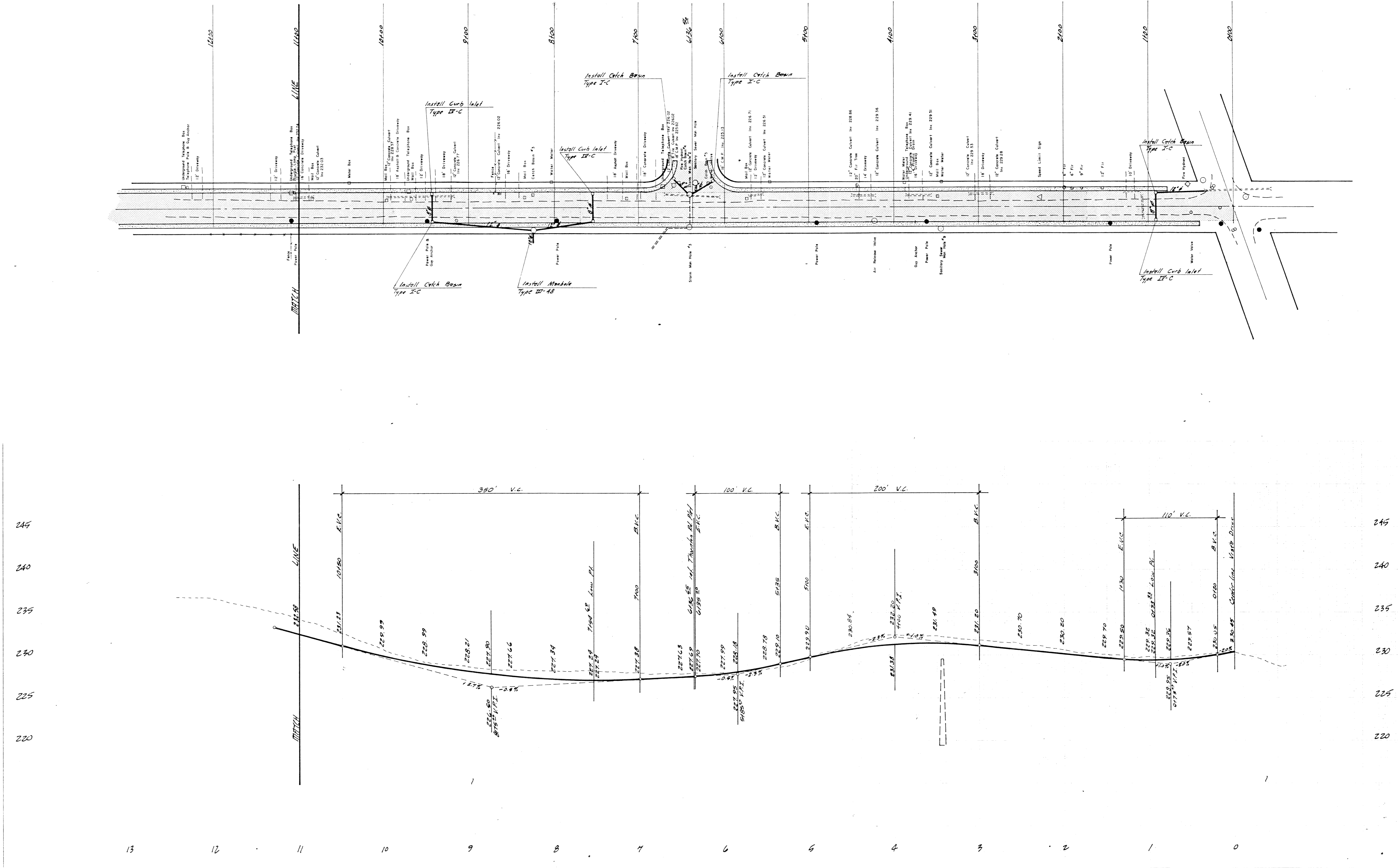
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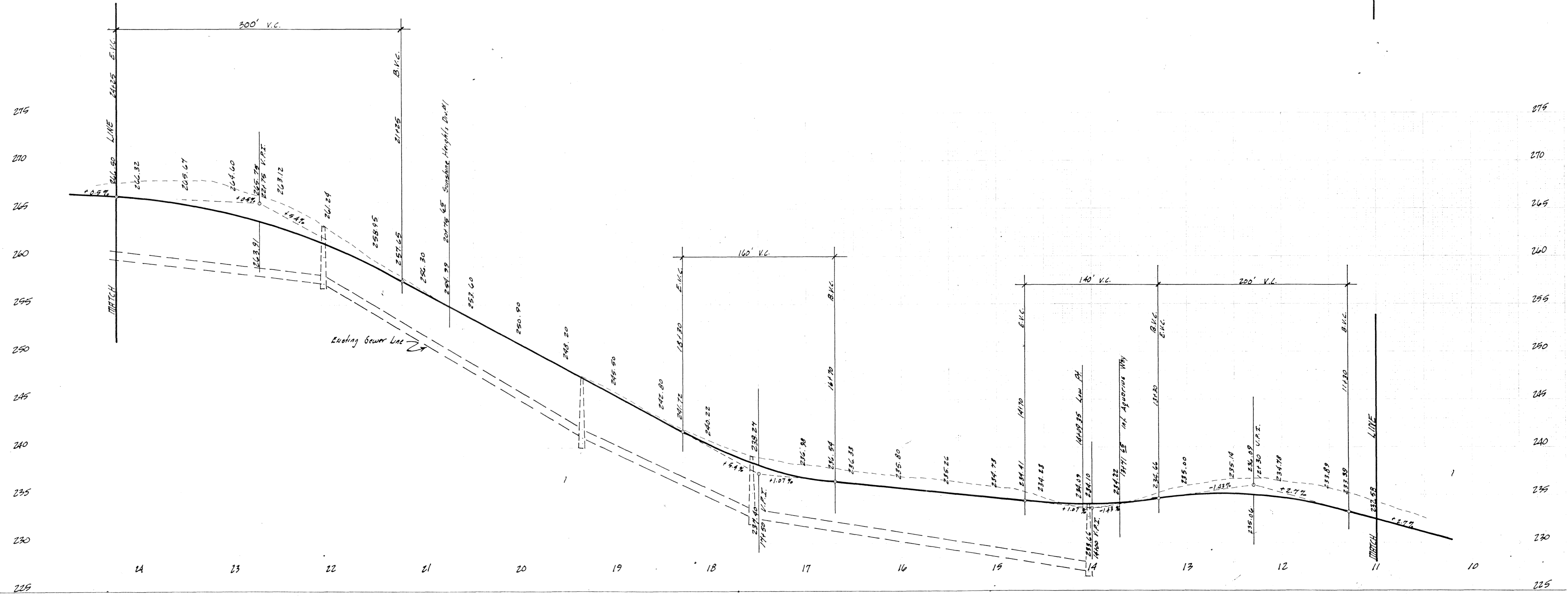
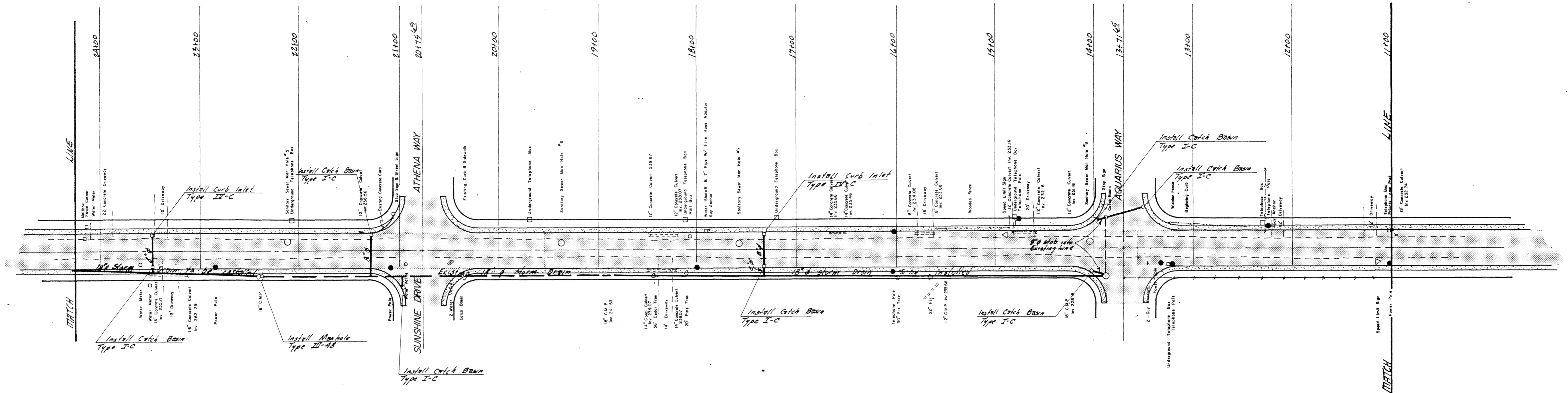
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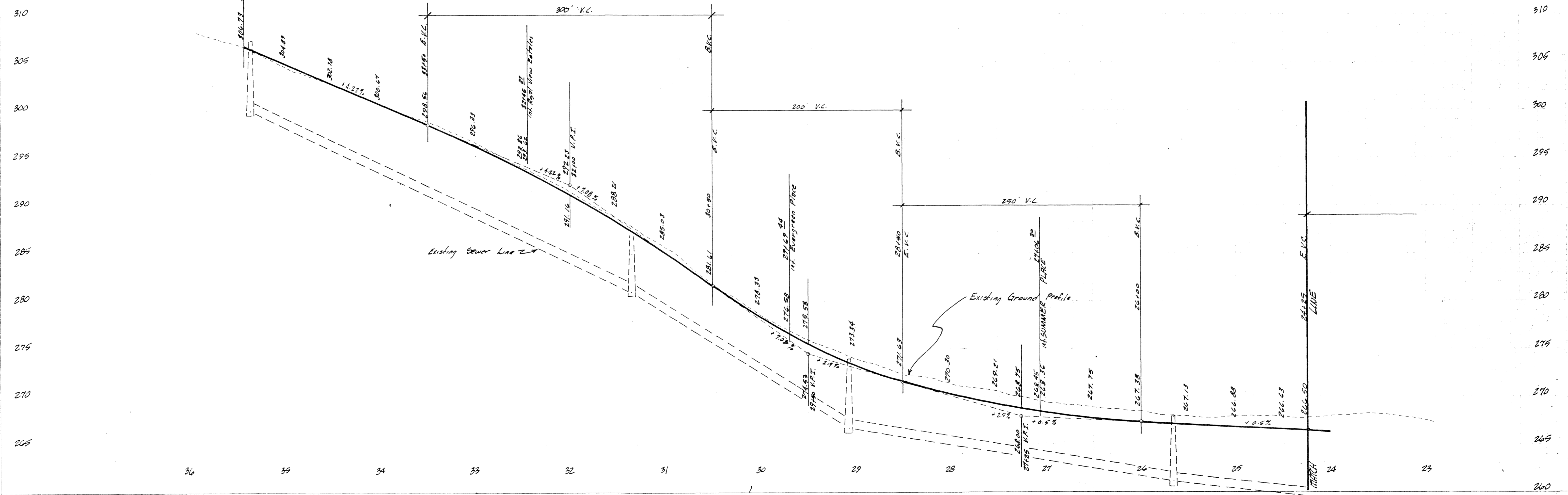
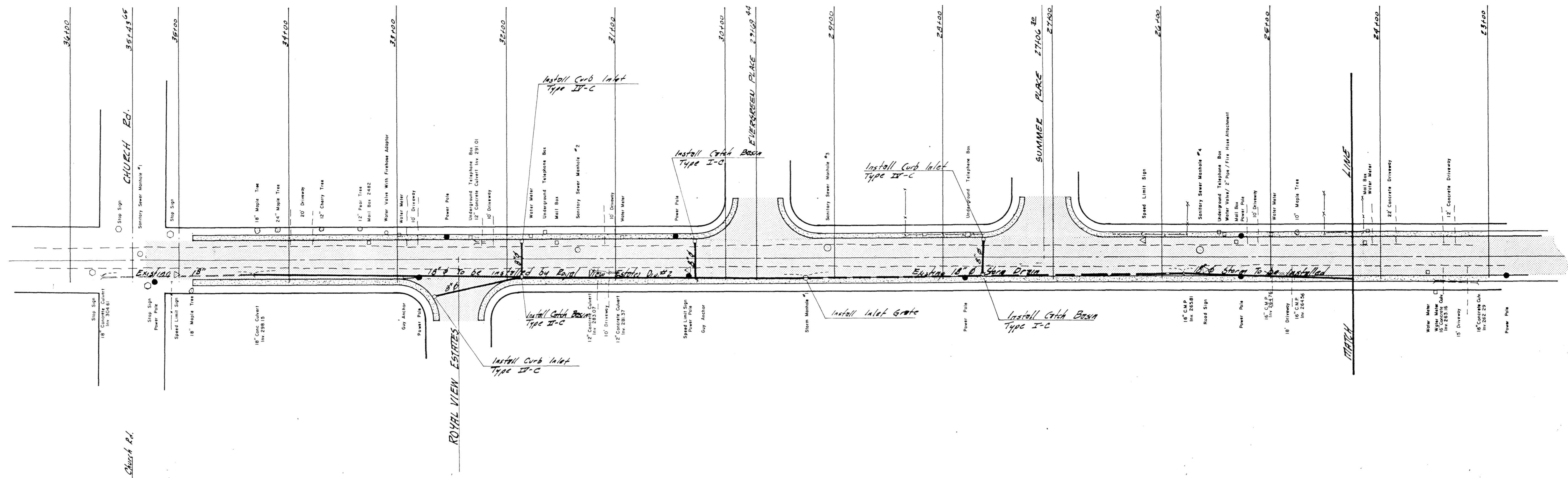
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NO.	REVISIONS

THORNTON ROAD
 IMPROVEMENT PROJECT

ROADWAY & STORM DRAINAGE
 PLAN & PROFILE

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GENERAL:

The following specifications are to be read in conjunction with the Standard Specifications and those detailed specifications are hereby made a part of this contract.

"Standard Specifications" referred to herein refer to the Standard Specifications for Municipal Public Works Construction as prepared by the Washington State Chapter, A.P.W.A., 1977 Edition, and all materials and construction shall comply with and be done in accordance with said Standard Specifications, or as shown on the plans.

State of Washington, Standard Specifications for Road and Bridge Construction refers to the 1977 Edition of the same.

GRAVITY STORM SEWER SYSTEM

- Storm sewers shall be constructed as shown on the plans and as specified herein.
- All sewer pipe shall meet the materials and testing specifications as outlined in Section 60 of the Standard Specifications.
- Pipe installation at locations, lines and grades as shown on the plans, shall be in conformance with provisions of Sections 61, and 62 of the Standard Specifications.
- Bedding for rigid conduits shall be Class C and conform to Section 61-3.05C of the Standard Specifications, and bedding for flexible conduits shall conform to Section 61-3.05D.
- All backfill in trenches shall be Class B bank run gravel and in accordance with Sections 61-3.06, 61-3.07, and 61-3.08 of the Standard Specifications.
- Compaction shall be by mechanical tamping as outlined in Section 61-3.06B.

PAVING AND GRADING

- All clearing and grubbing activity shall conform with the provisions of Section 1-3 in the Standard Specifications.
- Preparation of Subgrade: The work shall consist of bringing the bottom of excavation and top of embankments of the roadway to a surface conforming to the grade lines, and cross sections shown on the plans between lines two (2) feet out from the edges of the proposed paving.

All soft or yielding material and other portions of the subgrade which will not compact readily shall be removed and replaced with suitable material and the whole subgrade brought to a line and grade and to a condition of uniform compaction and supporting ability. Where the subgrade is of a compacted nature as determined by the Engineer, it shall be plowed to a depth of not less than six (6) inches for the full width of the subgrade. The loose material then shall be spread and manipulated so as to bring all the material to a uniform density.

The top six (6) inches of the subgrade, in both cut and fill sections, shall be compacted to a density of not less than ninety-five (95) percent of the maximum density as determined by the "Compaction Control Test" specified in Section 13-3.10ES of the Standard Specifications.

Embankment: Fill material shall be free from frost, stumps, roots, and soils. Only approved material shall be used.

After the subgrade has been prepared and immediately before any base or paving course is laid, the subgrade shall be tested as to crown elevation. If the subgrade is found not to be at the proper elevation at all points, material shall be removed or added as the condition necessitates and compacted to bring all portions of the subgrade to the correct elevation and to the specified density.

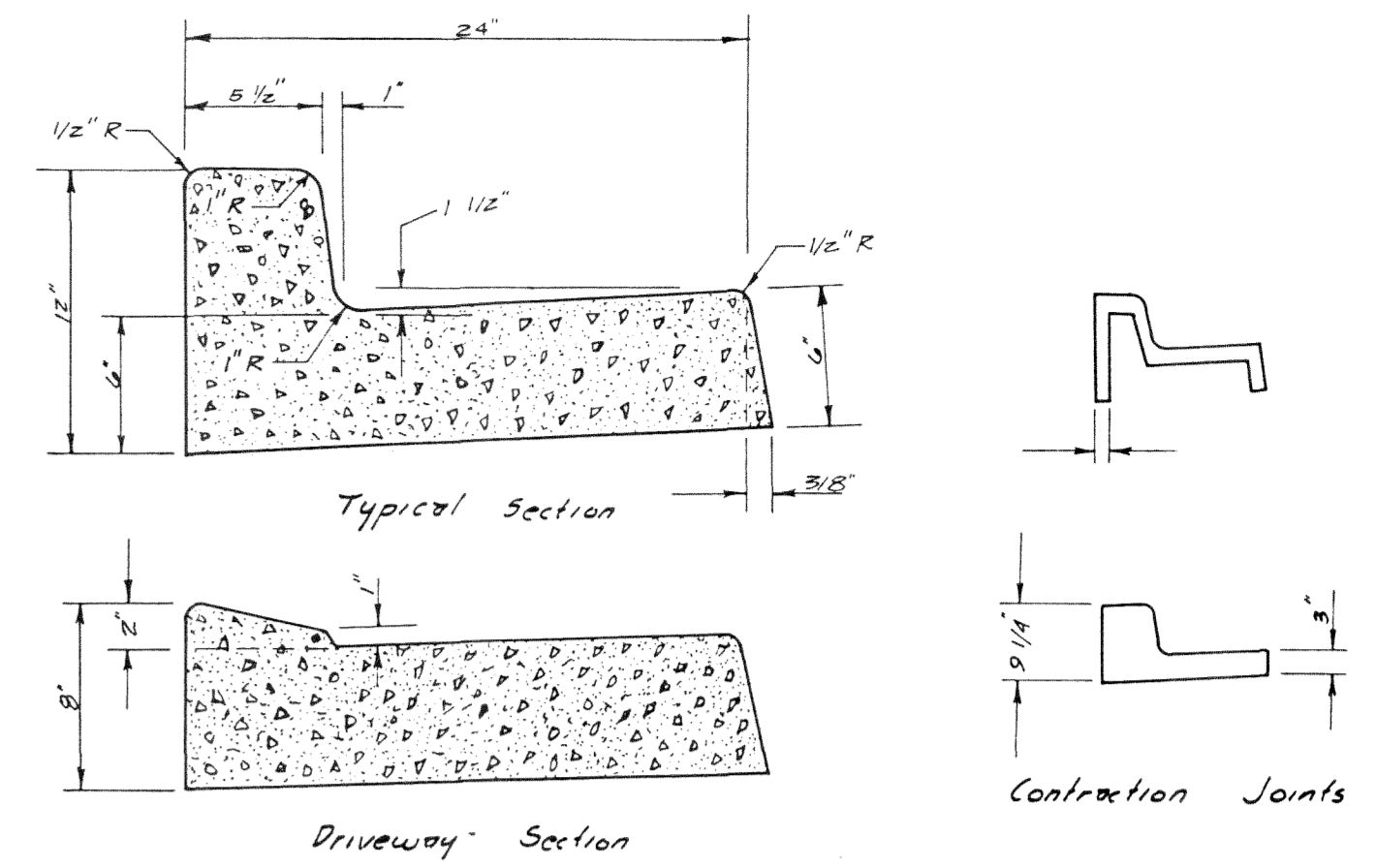
3. Paving section shall be as follows:

- 5" minimum, compacted depth of gravel base Class B
- 4" asphalt treated Base.
- 2" minimum, compacted depth of asphalt concrete Class B

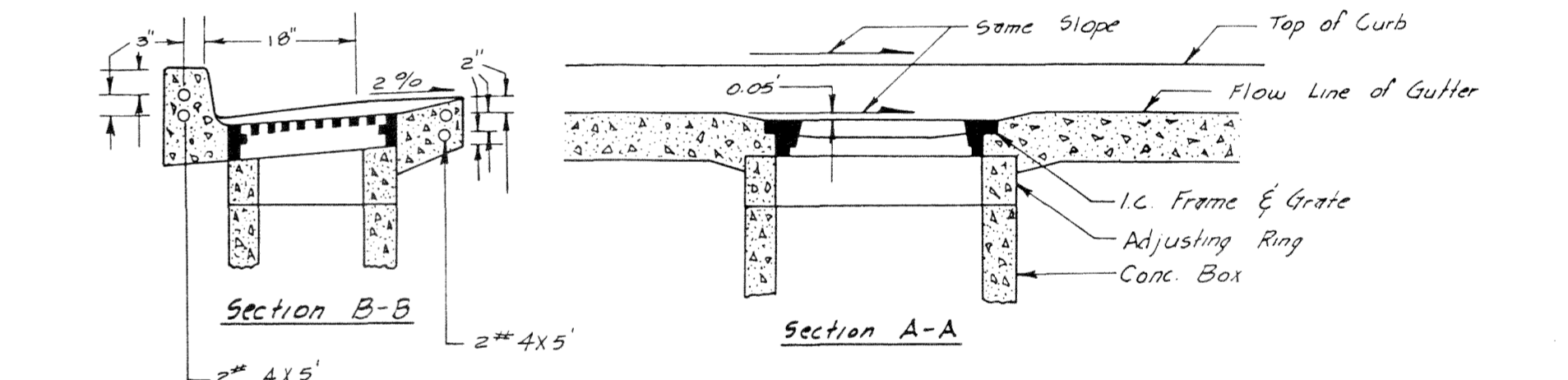
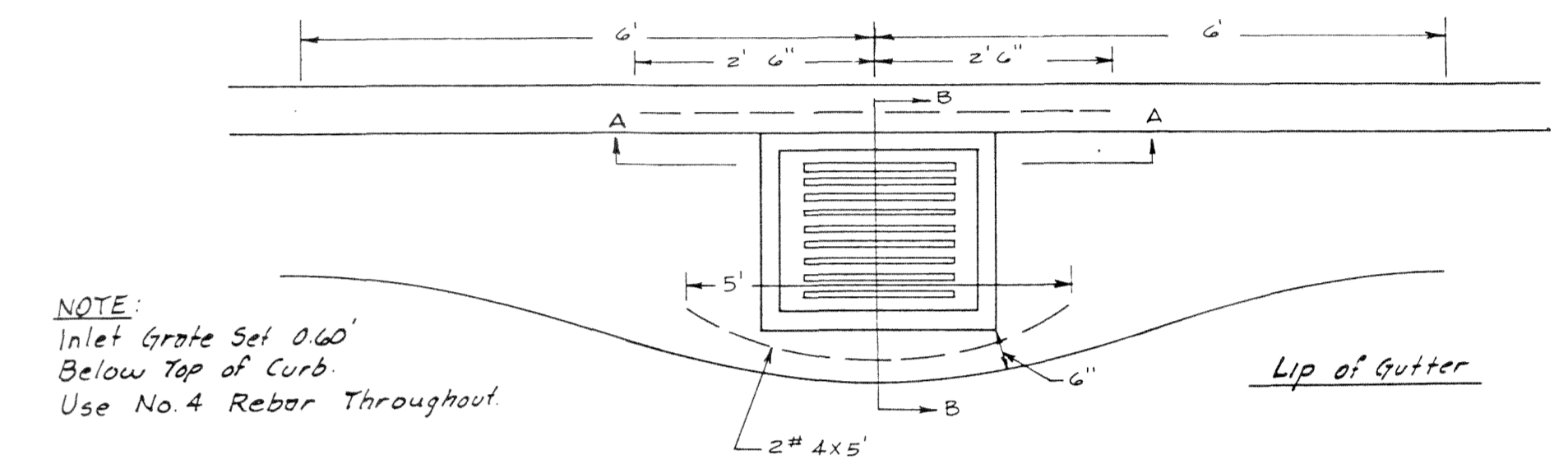
- Gravel base shall meet all requirements of Section 4-02 of State of Washington, Standard Specifications for Road and Bridge Construction.
- Crushed surfacing top course shall meet all requirements of Section 4-04 of State of Washington, Standard Specifications for Road and Bridge Construction.
- Asphalt concrete pavement Class B shall meet all requirements of Section 5-04 of State of Washington, Standard Specifications for Road and Bridge Construction.

CURBS AND SIDEWALKS

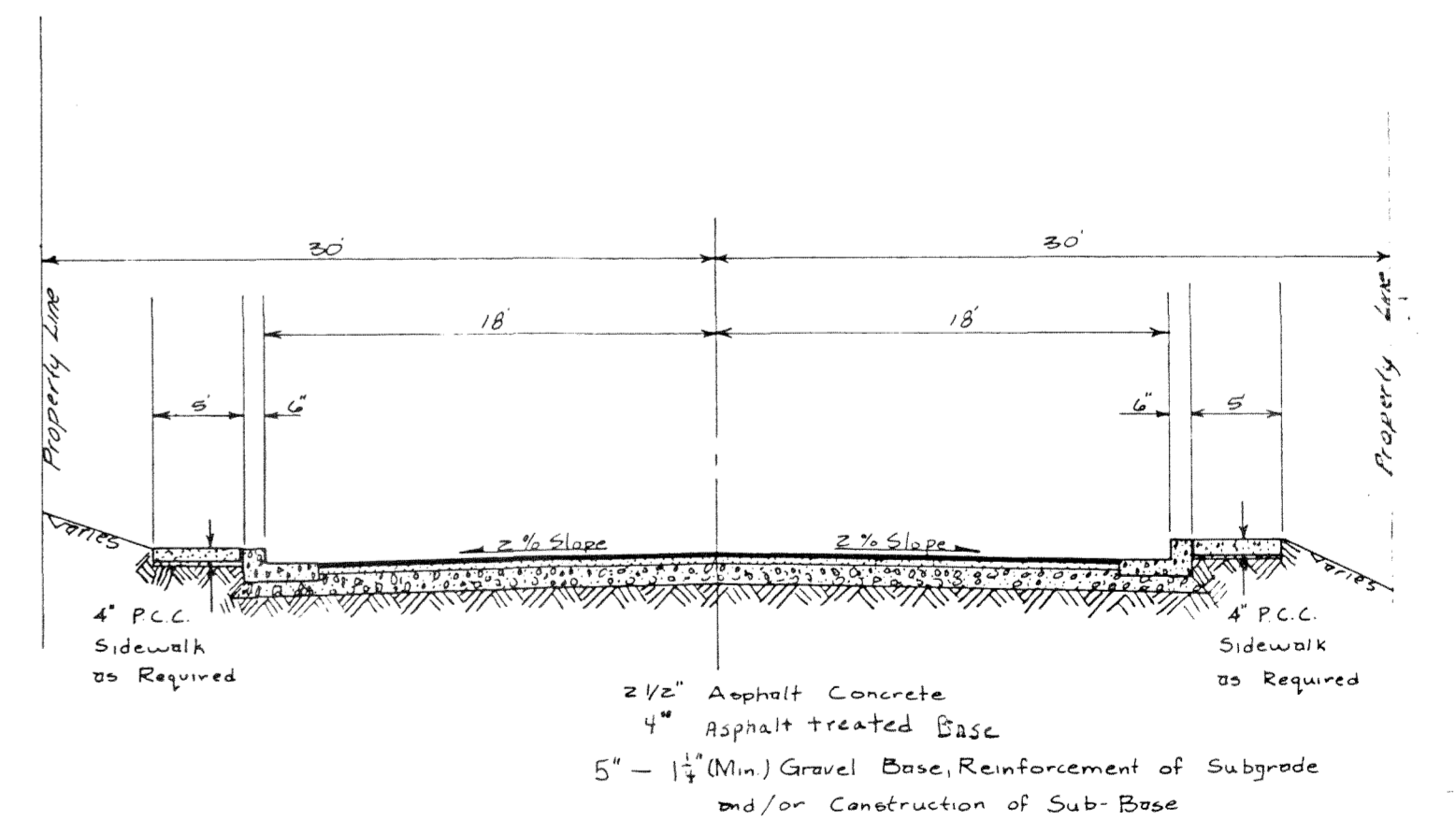
- Cement concrete curb and gutter shall be constructed as shown on the plans and in accordance with Section 40 of the Standard Specifications.
- Curbs shall be backfilled after concrete has attained design strength if sidewalks are not immediately constructed. Backfill shall be carefully placed and compacted to give lateral support to the curb and to insure that drainage will flow over the top of curb to the gutter.
- Cement concrete sidewalk shall be constructed as shown on the plans in accordance with Section 42 of the Standard Specifications. A 2" depth of 3/4" minus drain gravel shall be used for sidewalk bedding.
- Cement concrete driveways, six (6) inches thick, shall be constructed at such locations as shown on the plans or as designated by the developer or his representative. A 2" layer of 3/4" minus drain gravel shall be used for driveway bedding. Concrete shall be Class B concrete (1" maximum aggregate size with 5% air entrainment) as specified in Section 39-3 of the Standard Specifications.



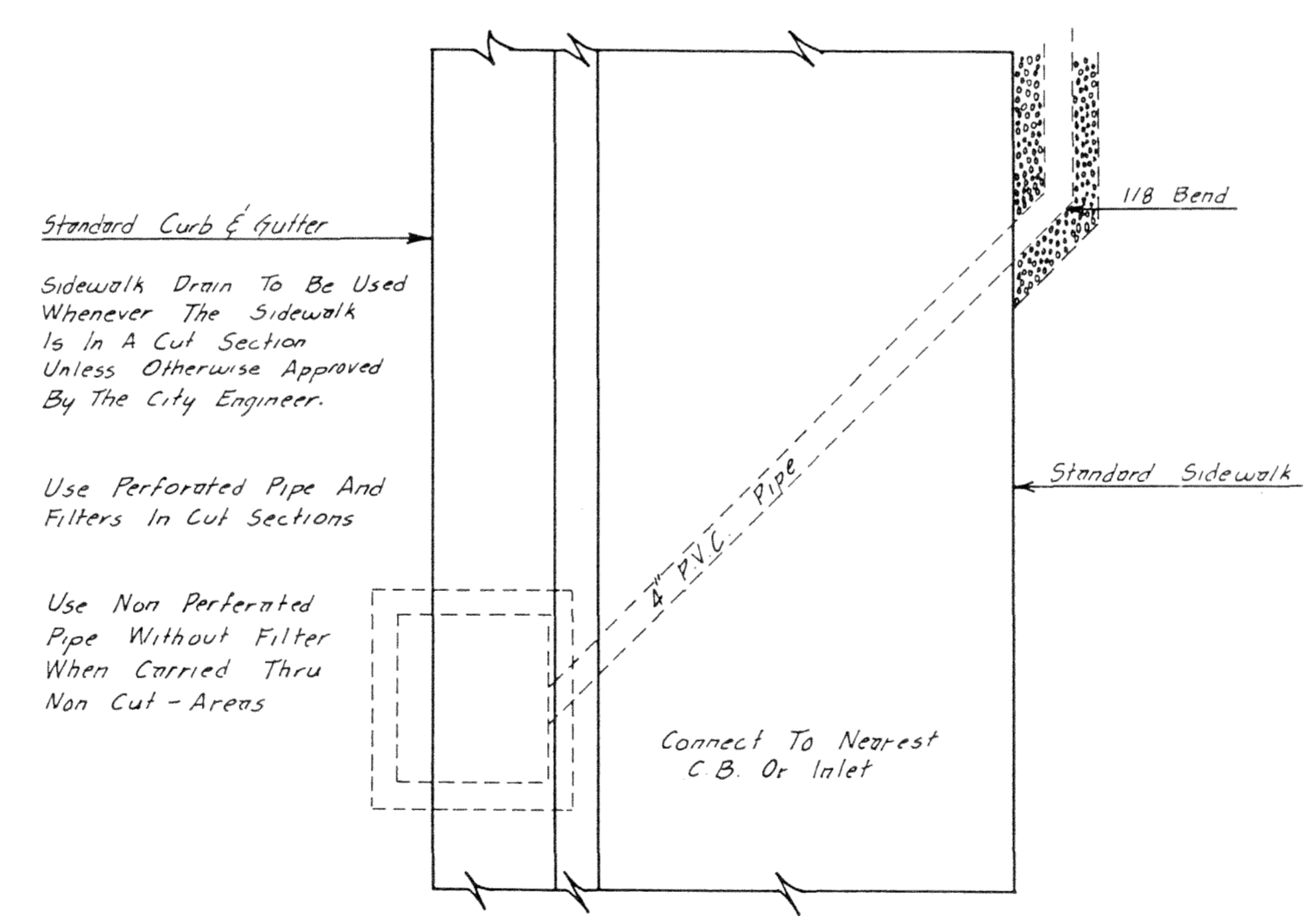
TYPE A MODIFIED CURB AND GUTTER



GUTTER TREATMENT AT INLET OR CATCH BASIN



STANDARD ASPHALT CONCRETE SECTION - COLLECTOR ARTERIAL



CUT SECTION SIDEWALK DRAIN

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