

PLAN VIEW SCALE

PRESSURE REDUCING VALVES

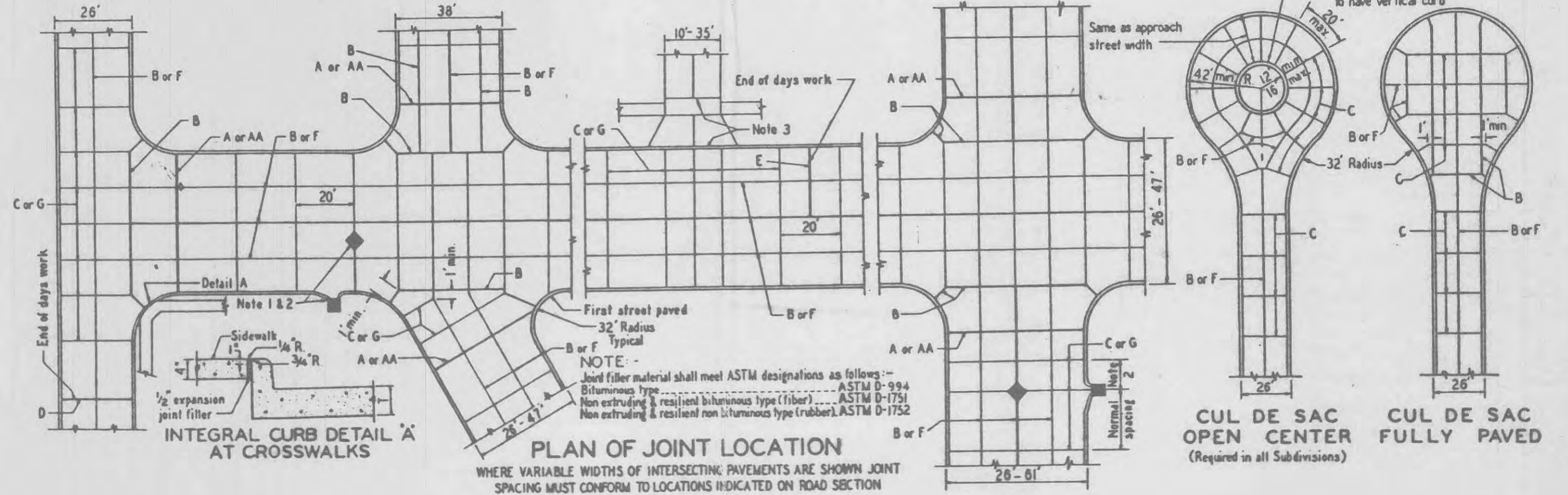
A. Provide hydraulically operated, globe type pressure reducing valves. This valve shall be closed under normal conditions. If the low pressure side of the valve drops below a field adjustable setting, the valve will automatically open to maintain a constant downstream pressure without permitting the upstream pressure to drop below a set level. Should the upstream pressure drop to below the downstream pressure the valve will automatically open and allow reverse flow.

B. The valves may be a diaphragm type valve as manufactured by Cla-Val Company, a piston type as manufactured by G.A. Industries or approved equal. The valve body shall be of cast iron construction with flanged ends. The minimum design work pressure shall be 150 psi.

- C. The valves shall be hydraulically controlled with the control system including the following:
1. Field adjustable, spring loaded pressure reducing control valve.
 2. Y type strainer.
 3. Opening and closing speed control adjustment valves.
 4. Valve position indicator.
 5. Flow stabilizer.
- D. Pressure Reducing Valve and Manhole. Valve shall be set to open at 75 lbs. pressure on the east side (low pressure side) and 80 lbs. pressure on the west side (high pressure side).
- The valves shall be delivered to the site, tagged with the installation locations, with all control piping installed and set to open as specified above and on the drawings.

PRESSURE REDUCING VALVE & MANHOLE

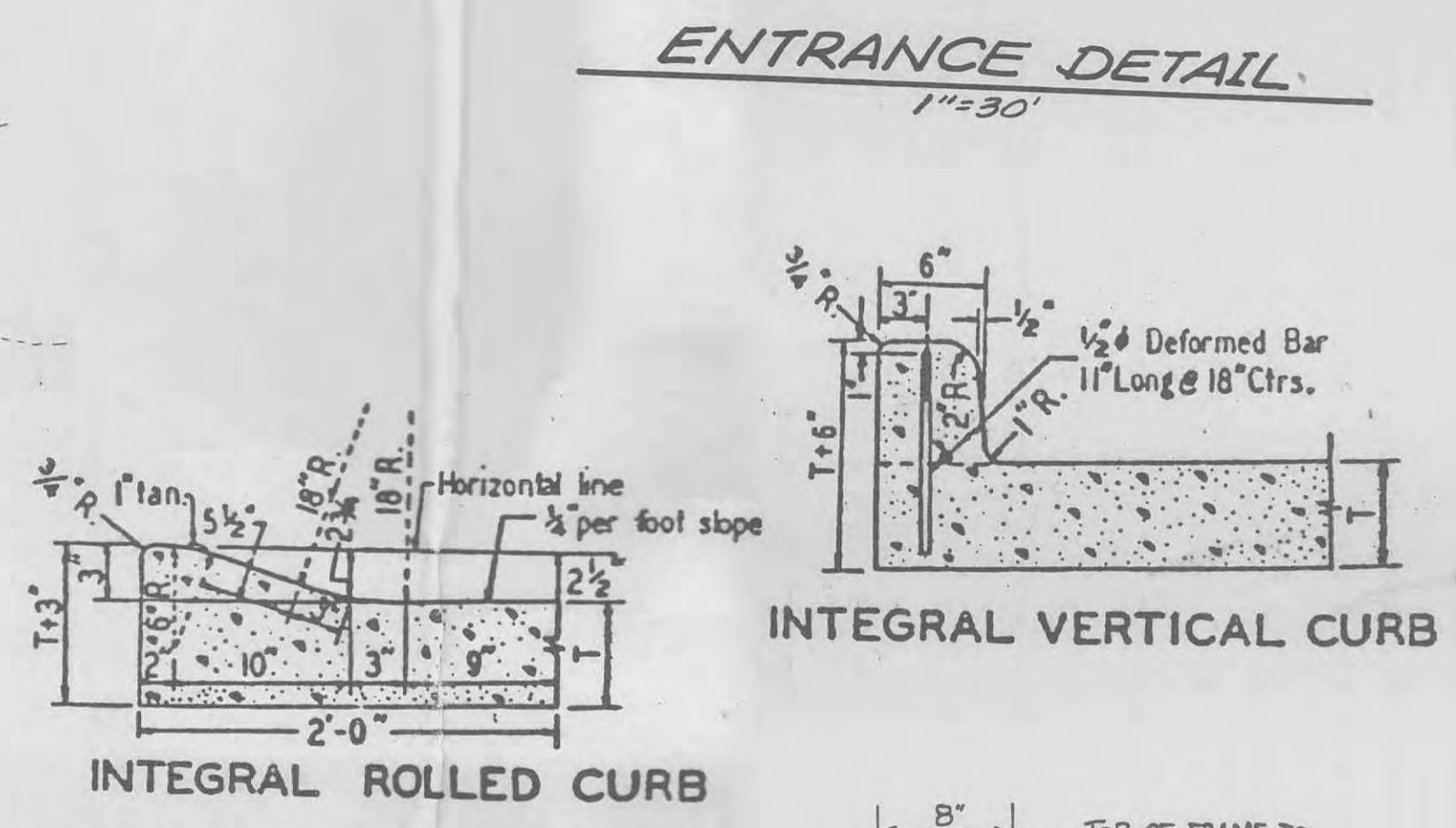
INTEGRAL CURB PAVEMENT TYPICAL SECTIONS AND DETAILS



INTEGRAL CURB DETAIL A AT CROSSWALKS

PLAN OF JOINT LOCATION

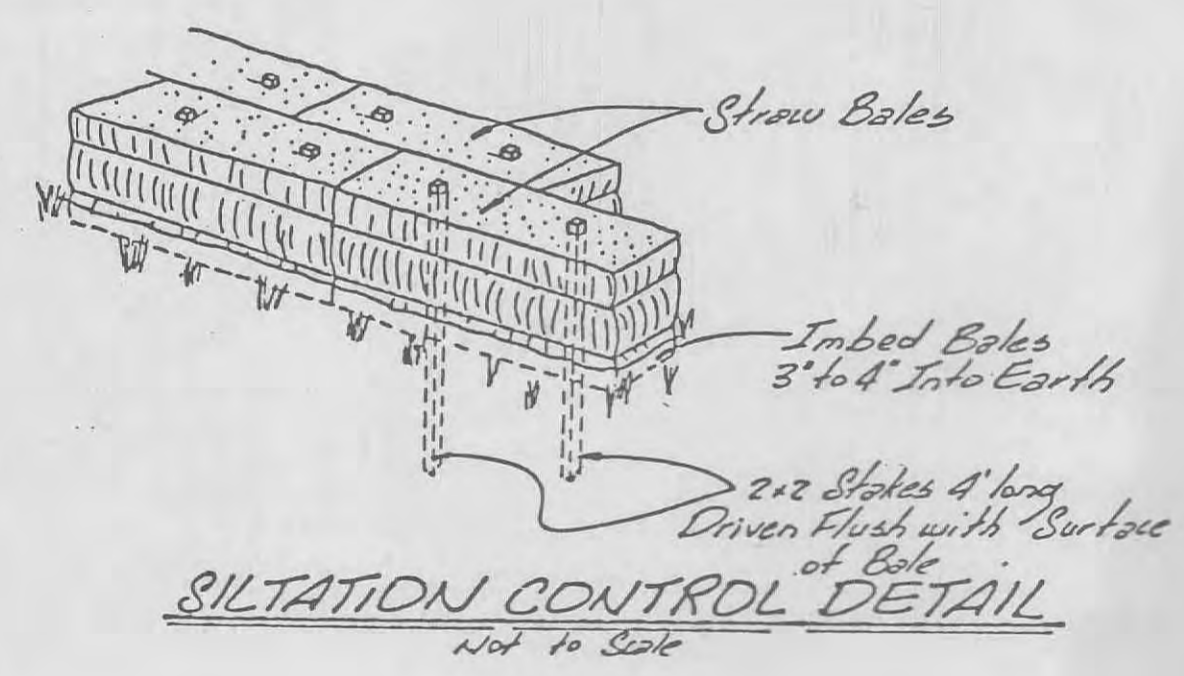
CUL DE SAC OPEN CENTER
CUL DE SAC FULLY PAVED



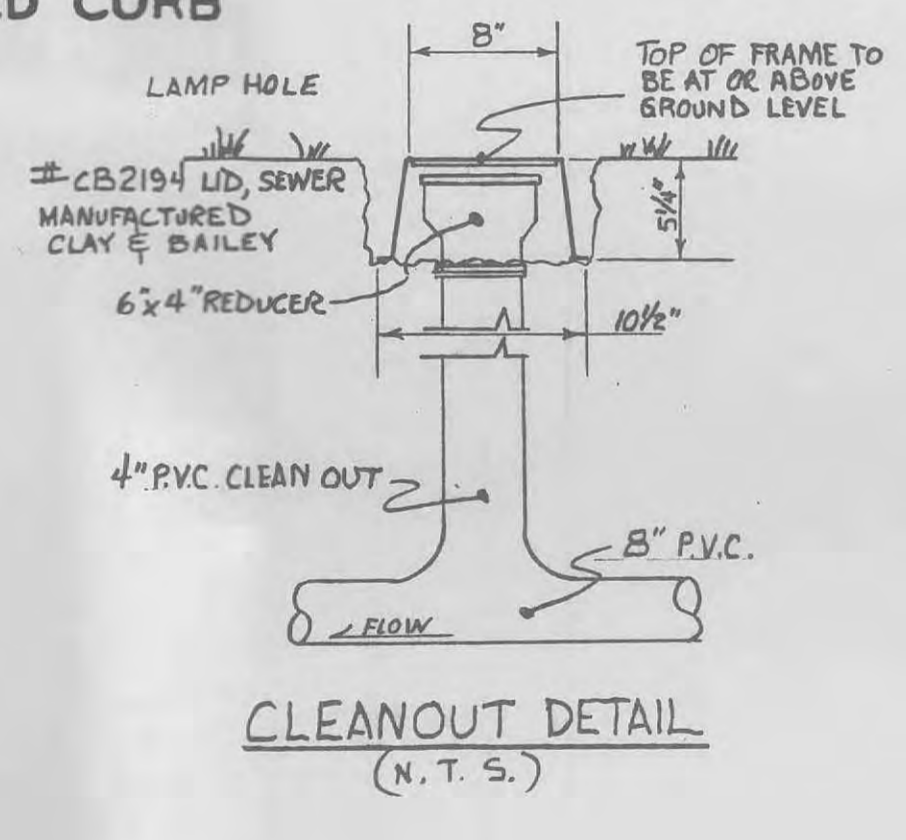
ENTRANCE DETAIL

INTEGRAL VERTICAL CURB

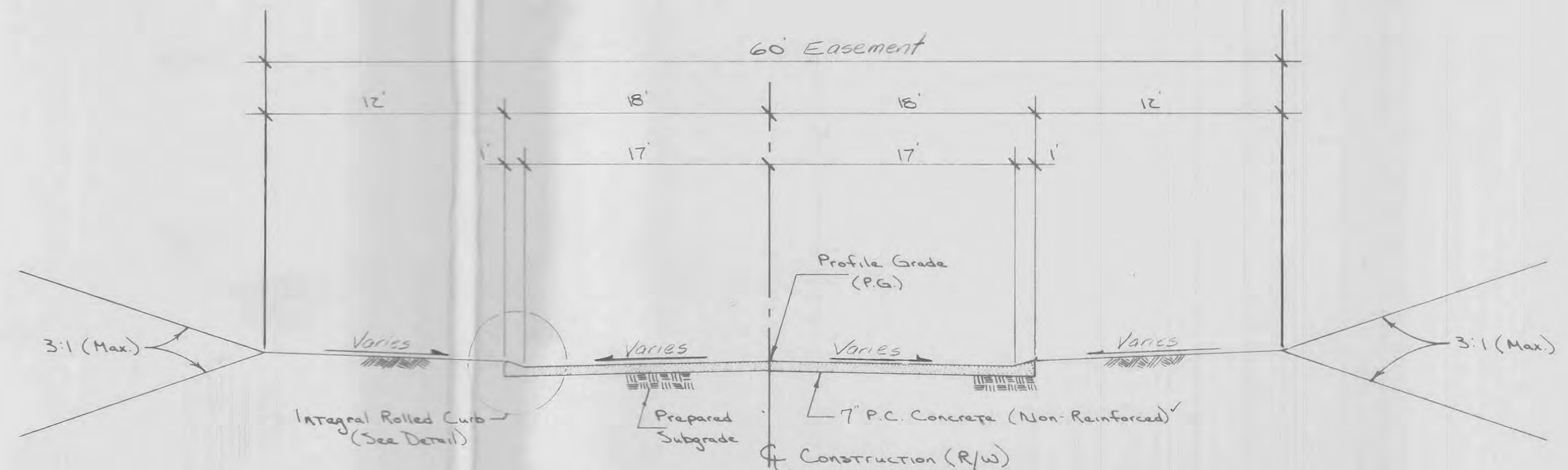
INTEGRAL ROLLED CURB



SILTATION CONTROL DETAIL

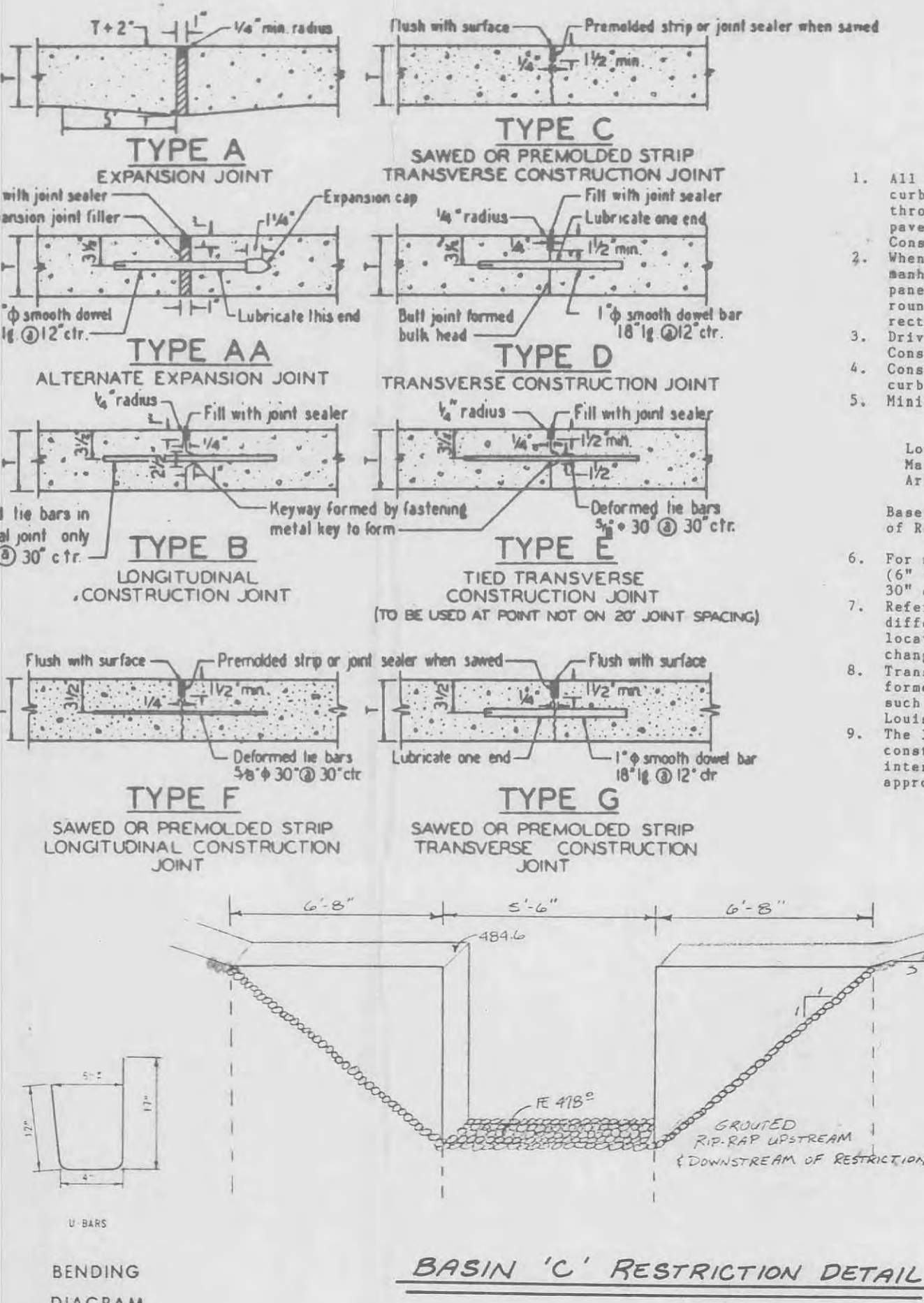


CLEANOUT DETAIL



TYPICAL SECTION

PAVEMENT BAR BILL				TYPE E COVER BAR BILL			
TYPE	LENGTH	NO.	LENGTH	TYPE	LENGTH	NO.	LENGTH
A	12	1	12	E	12	1	12
A	15	1	15	E	15	1	15
A	17	1	17	E	17	1	17
A	12	1	12	E	12	1	12



- GENERAL NOTES
1. All catch basins shall be separate from the pavement and curb by expansion joint extending completely through curb and slab. Manhole castings within the pavement limits shall be boxed as shown in the "Sewer Construction Details".
 2. When a joint falls within 5 ft. of a catch basin, manhole, or other structure, shorten one or more panels either side of opening to permit joint to fall on round structures and at or between corners of rectangular structures.
 3. Driveway configurations are shown in the "Entrance Construction Details".
 4. Construction joint and dowel bars may be omitted when curb is poured integral with pavement.
 5. Minimum thickness for pavement is:

Local or Minor Streets	CONCRETE (T)
Major or Industrial Streets	6"
Arterial or Industrial Streets	7"
 6. For minor rural or urban and minor subdivision pavements (5" thick concrete), 1/2" O deformed tie bars 30" lg. @ 30" ctr. shall be used for TYPE B longitudinal joints. Refer to Exhibit 134 for joint and bar requirements for different street classifications. Note that width and location of each poured portion of the pavement may change the type and location of joint required.
 7. Transverse or longitudinal construction joints in slip formed pavements may be made with groover or tool, if such device has been approved in advance by the St. Louis County Department of Highways & Traffic.
 8. The locations of the Type B and Type F longitudinal construction joints in above sections may be interchanged for the different widths of construction if approval is obtained.

BASIN 'C' RESTRICTION DETAIL

NOTES:
REIN. STEEL - GRADE 40 MIN.
CONCRETE F'C = 3000 P.S.I.