[illegible]

SCALE: NONE

1. All storm drainage pipe shall be:
 - a) Corrugated metal pipe either fully bituminous coated with a paved invert or smooth flow type (see standard gauges and joint detail). All collars shall be of the same gauge and corrugation as the pipe being installed. Dimple collars are prohibited.
 - b) Aluminum corrugated pipe with the same gauge thickness and joint coupling as corrugated pipe.
 - c) A.B.S. composite pipe with solvent cement joined per ASTM D2680.
2. If larger equipment is used during pipe line construction, fresh air must be introduced into the pipe by a mechanical blower for lines over 100' in length.
3. Extreme care shall be taken in the handling of pipe and appurtenances. Under no circumstances shall such material be dropped, rolled or skidded against another pipe. All slings, hooks or pipe clamps shall be such as to have a narrow point to prevent damage to the exterior of the pipe. Handling pipe from the exterior is prohibited.
4. All pipe bedding, haunching and initial backfill shall consist of selected R.O.B., screened or crushed gravel not exceeding 4" in diameter. All materials to be compacted A.B.E. shall have a moisture content suitable for the compactor selected for proper compaction. Impact rammers, plate or small drum vibrators may be used with layer thickness not exceeding the capability of the compaction equipment being used. Engineers approval or rejection of the above described mechanical devices based upon the results of appropriate on-site field test or experience shall be final and no further weight lines are required. Disregard Note 4 and use existing soil, if use existing soil, if satisfactory to the engineer.
5. When precast manholes are to be used, a shop drawing must be submitted to the Town for approval.
6. Precast concrete block manholes may be used if:
 - a) A 6" precast or cast in place concrete base 8" wider than the outside diameter of the manhole used.
 - b) Concrete block 6" wide for 0'-10" depth, 8" wide for over 10' depth is used.
 - c) Outside surface of manhole is cement mortar parged 5/8" thick.
7. Structures over 4' deep from top of rim shall have approved steps every 16" on center. The handhold portion of aluminum steps are to be bituminous coated 4" and have a 5" projection into the structure.
8. All structures shall be backfilled with a minimum of 12" of selected R.O.B. gravel (see note 4).
9. If collar drain struts are installed they shall be made of P.V.C., A.B.S. (SDR35 or SGR 40) or cast iron and be placed no lower than the top of the outlet pipe and have a maximum projection into the structure of 2".
10. Where storm drainage pipes are installed under pavement areas, the entire trench shall be backfilled with select R.O.B. gravel (see Note 4).
11. Score filling, if called for on the plans or by the engineer, will have a separate attached requirement labeled "Score Filling Specifications".

DIAMETER (INCHES)	REQUIRED GAUGE
6	18
8	16
10	16
12	16
15	16
18	16
21	16
24	16
30	14
36	14
42	12
48	12
54	12
60	10
72	10
84	8

Diagram illustrating the cross-section of a trench with the following specifications:

- FINISH GRADE** (top surface)
- FINISH SURFACE TREATMENT AS REQUIRED** (top surface)
- TRENCH BACKFILL** (material on the right side)
- OD $\times 16"$** (outside diameter of the pipe)
- 12" MIN.** (minimum depth of the trench)
- INITIAL BACKFILL CONSIST OF SELL. R.O.B. GRAVEL.** (material on the left side)
- PIPE HAUNCH $\frac{1}{2}$ (MANUALLY CO.)** (material on the left side)
- 8" MIN. R.O.B. GRA. BEDDING ADOBE.** (material on the left side)
- UNINSULATED CORK** (material on the left side)

FRAME AND GRATE NO. 1396 AS
MANUFACTURED BY CAMPBELL
FOUNDRY COMPANY, HARRISON, N.J.
OR APPROVED EQUAL


48" SQUARE OUTSIDE

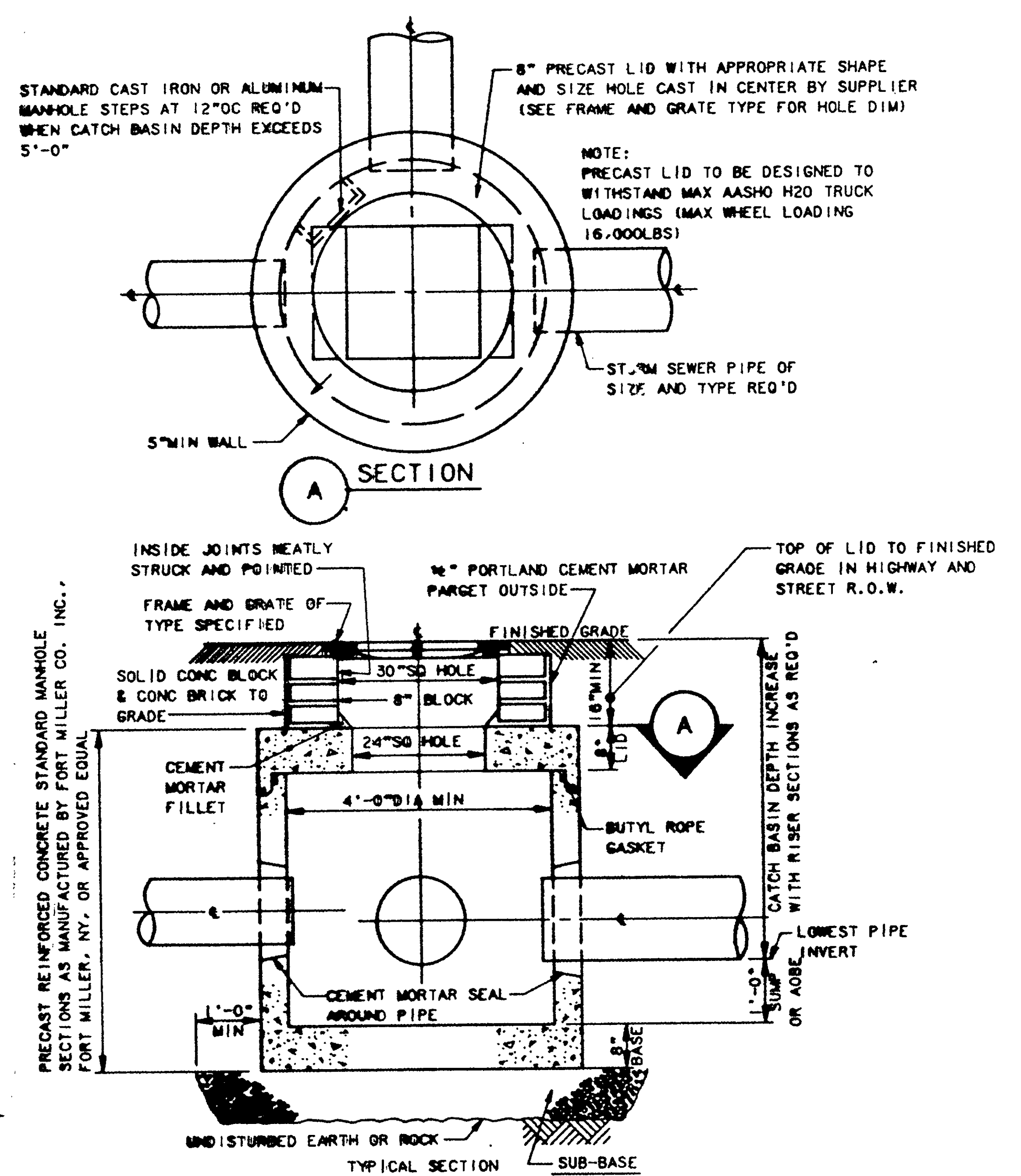
PLAN

30" SQ HOLE

SECTION

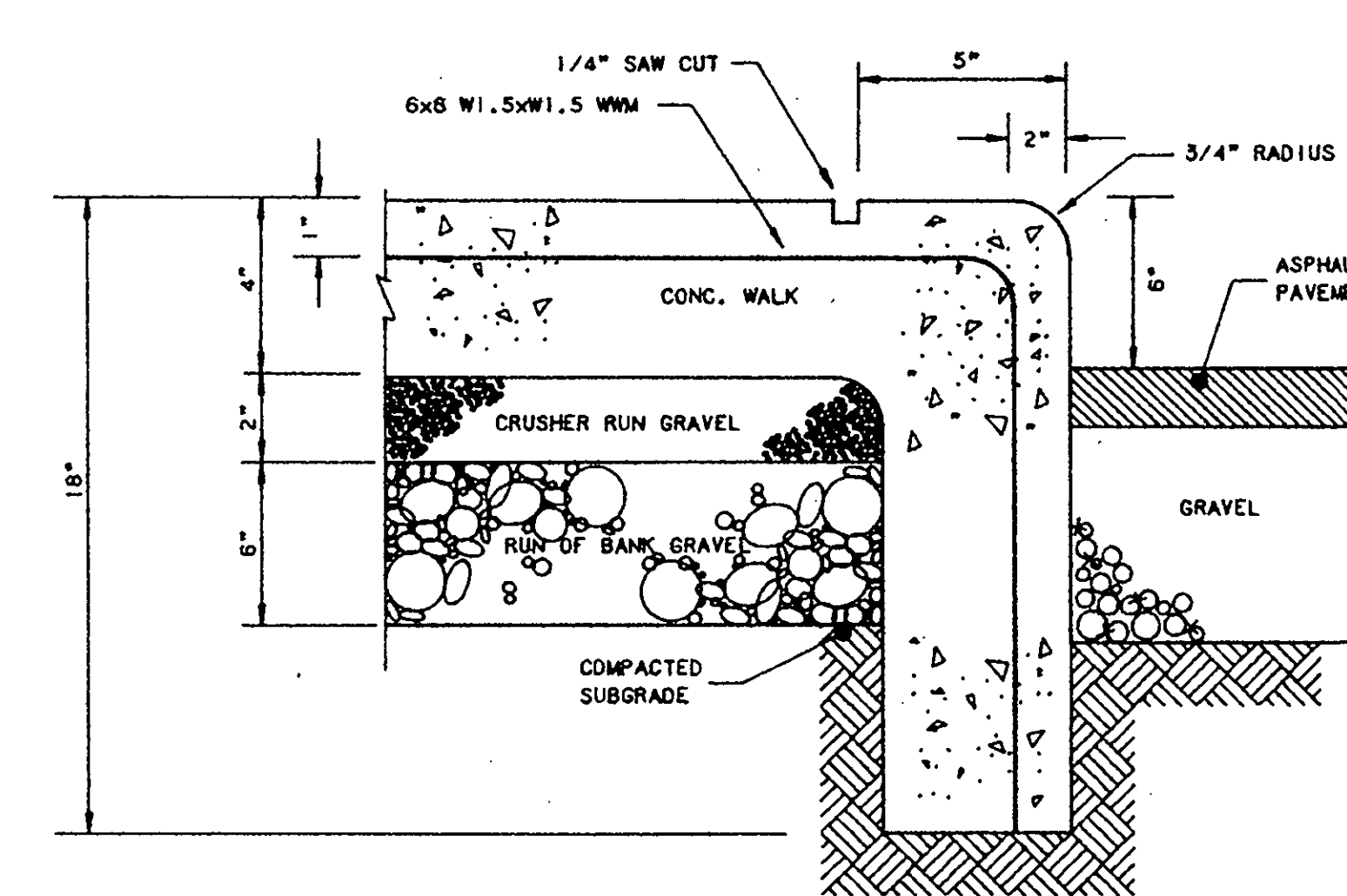
Technical drawing of a manhole frame and grate. The drawing includes a Plan view and a Section view. The Plan view shows a square frame with a central grate consisting of 12 horizontal bars. The frame has a 48" square outside dimension. The Section view shows the frame's profile, indicating a 30" square hole and a 3" thick frame. The drawing is labeled with 'FRAME AND GRATE NO. 1396 AS MANUFACTURED BY CAMPBELL FOUNDRY COMPANY, HARRISON, N.J. OR APPROVED EQUAL' and 'SECTION'.

 SQUARE GRATE
NO SCALE

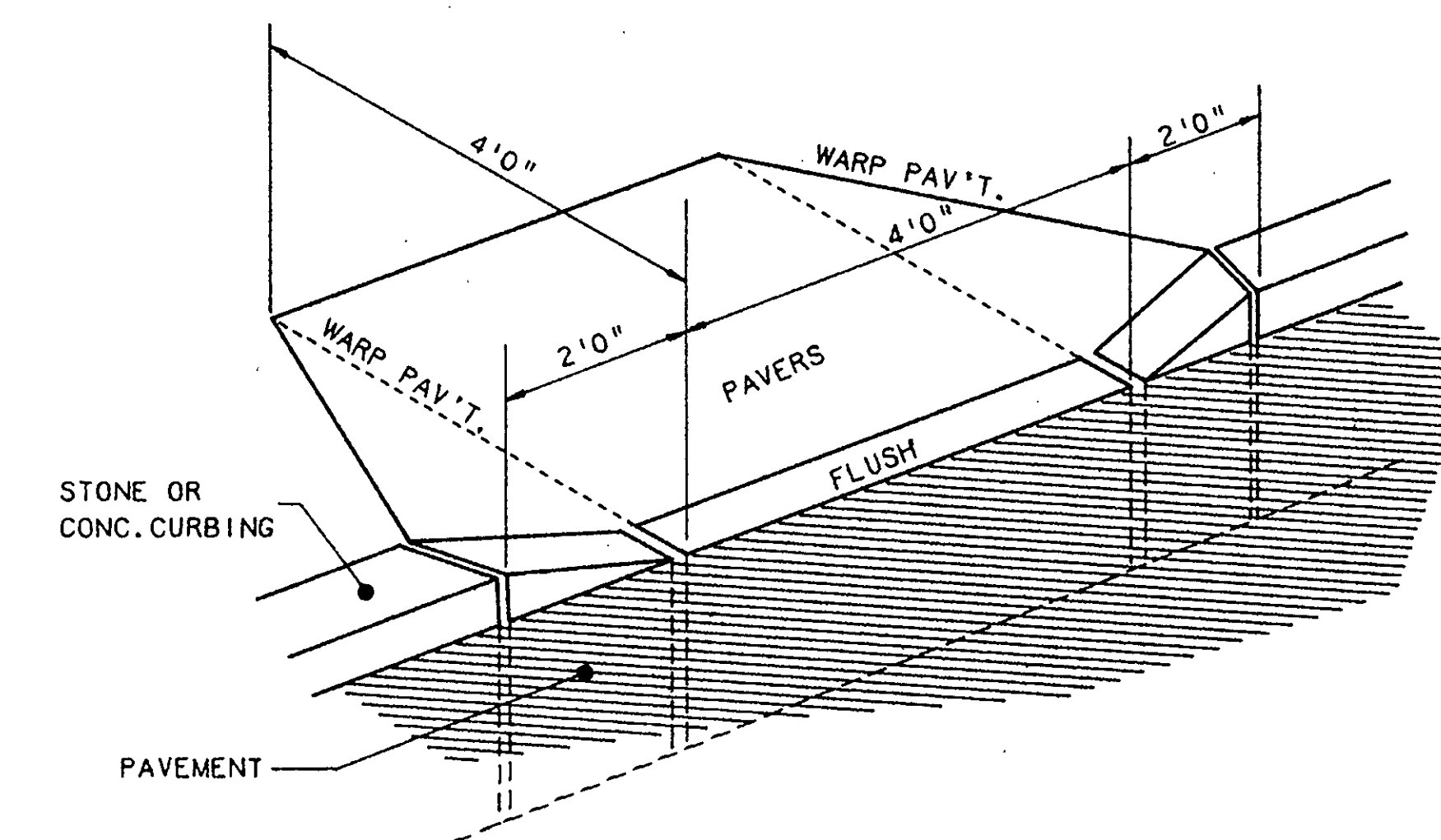


STANDARD PRECAST CONCRETE CATCH BASIN

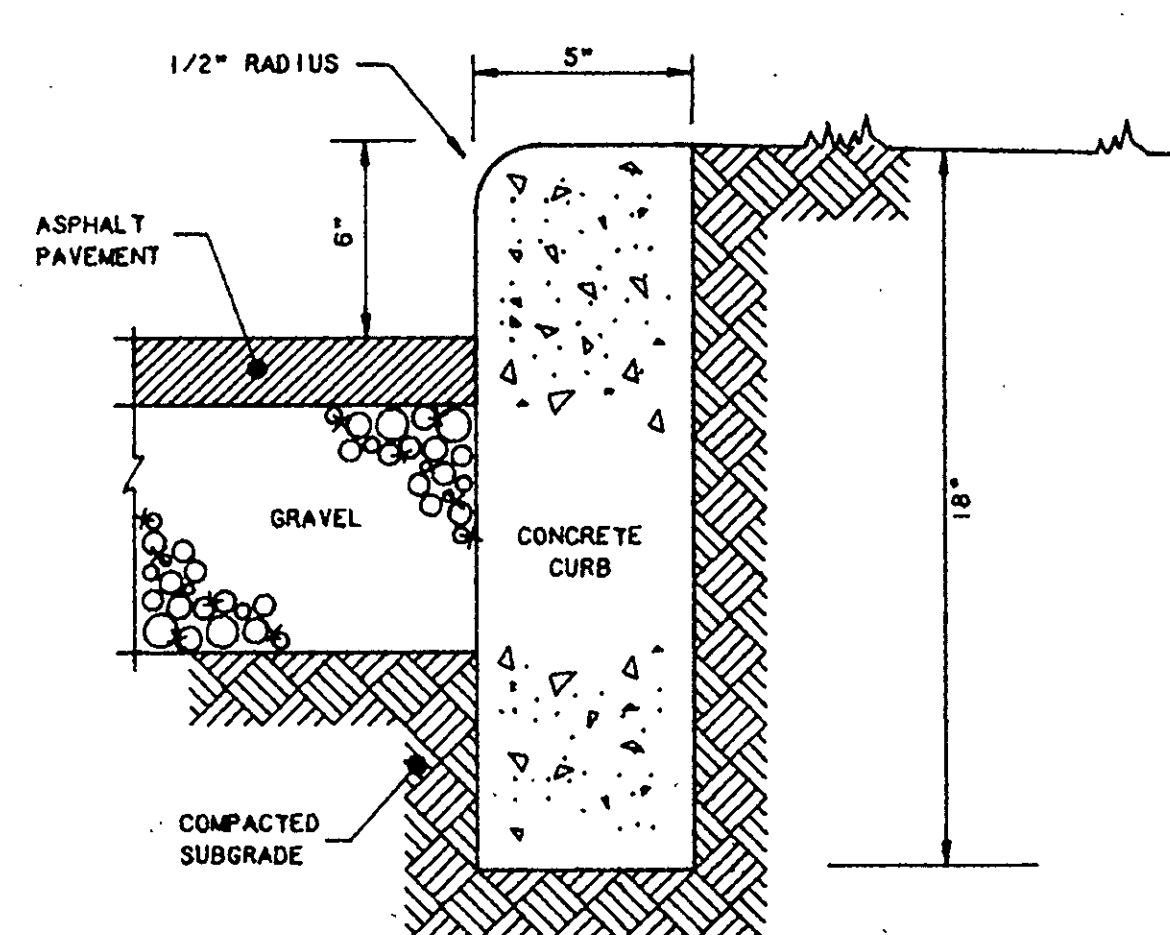
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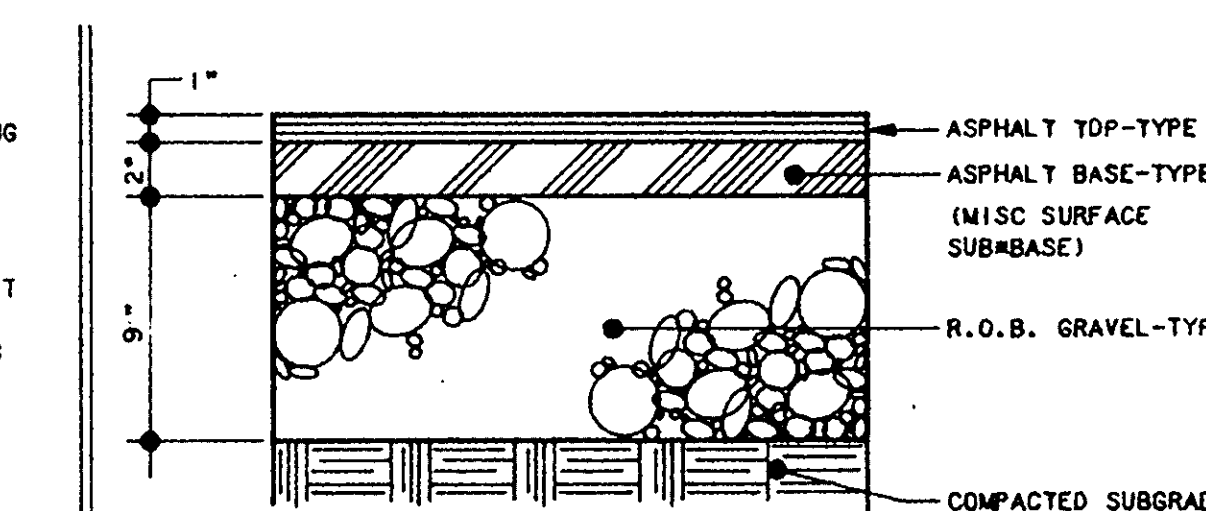
NOT TO SCALE



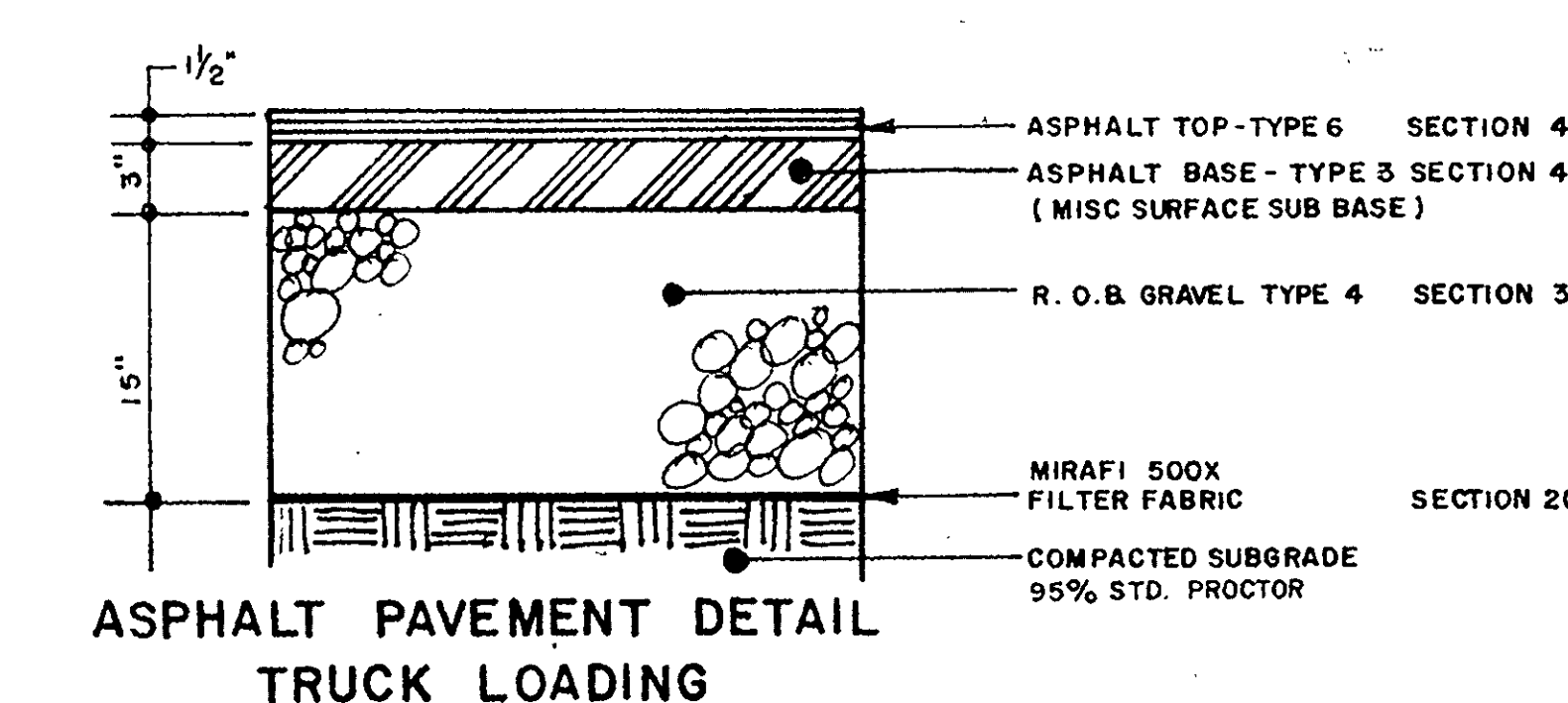
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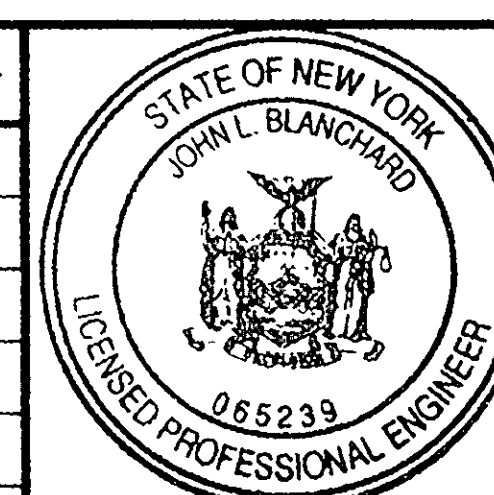


AUTOMOBILE PARKING



UNAUTHORIZED ALTERATION OR ADDITION TO
THIS DOCUMENT IS A VIOLATION OF SECTION
7209 SUBDIVISION 2 OF THE NEW YORK STATE
EDUCATION LAW.

DATE		RECORD OF WORK	Drawn	Check	Appr.
9-22-04	A	REVISED REC GW OVERLAY ZONING <small>(PROJECT NO. 781) - CORRECTION TO RECORD DRAWING</small>			
	A				
	A				
	A				
	A				
	A				
	A				
	A				
Drafter:		Checker:		Appr. by:	



© 1988

DATE: 9/22/89

SCALE: NO SCALE	PROJ. NO. 87.4394	SHEET 5 OF 7	DWG. NO. 88-61R
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