

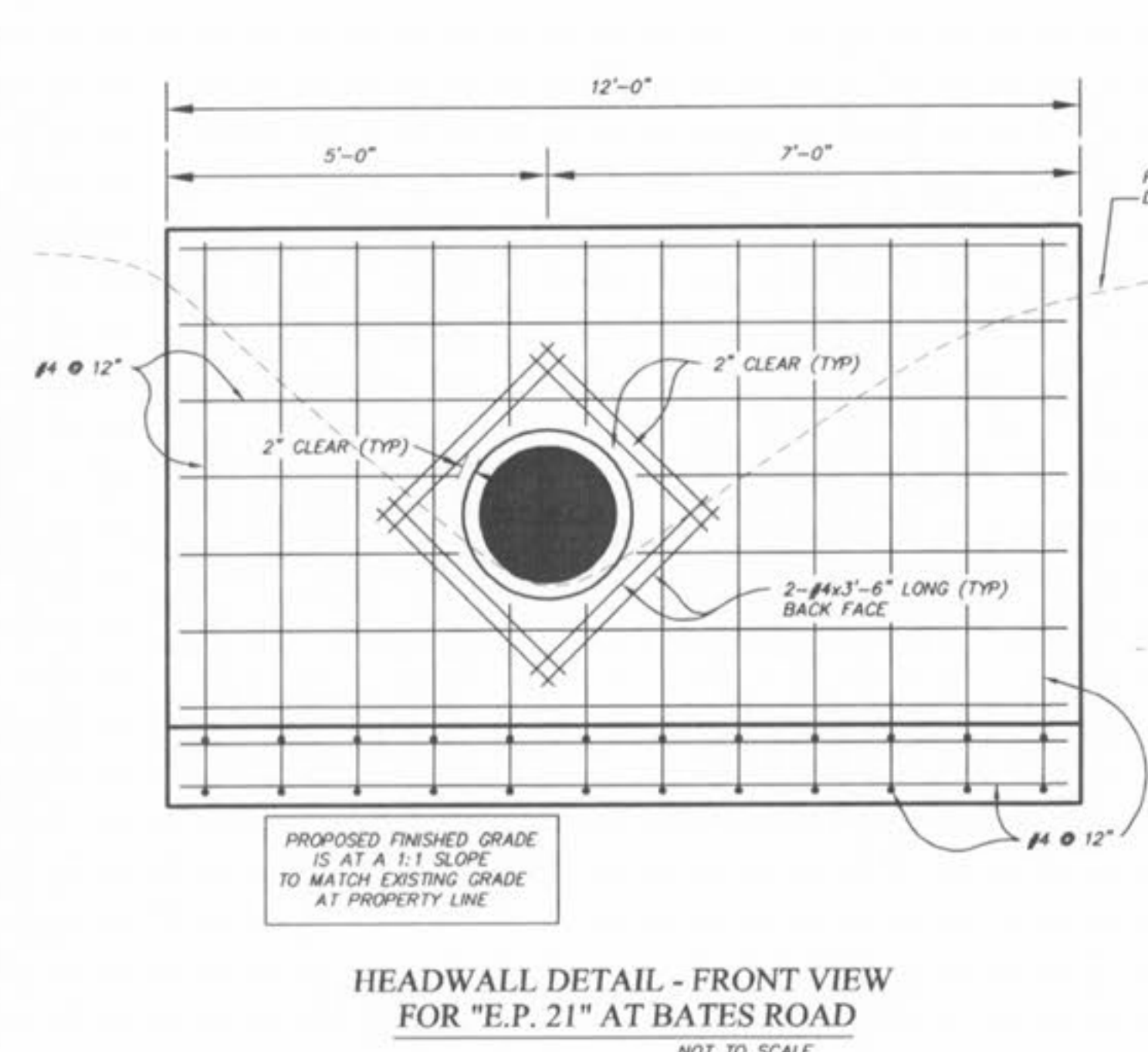
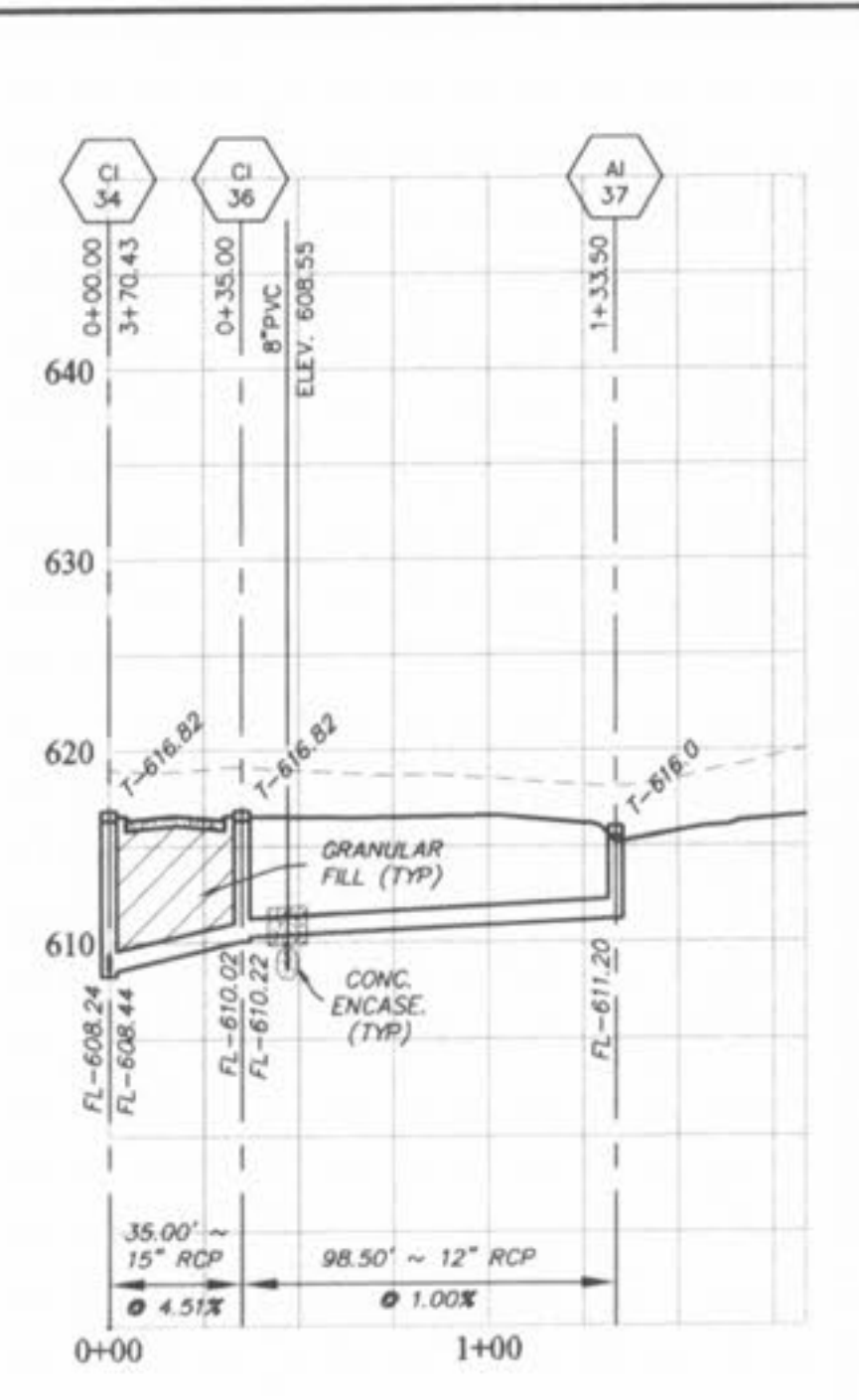
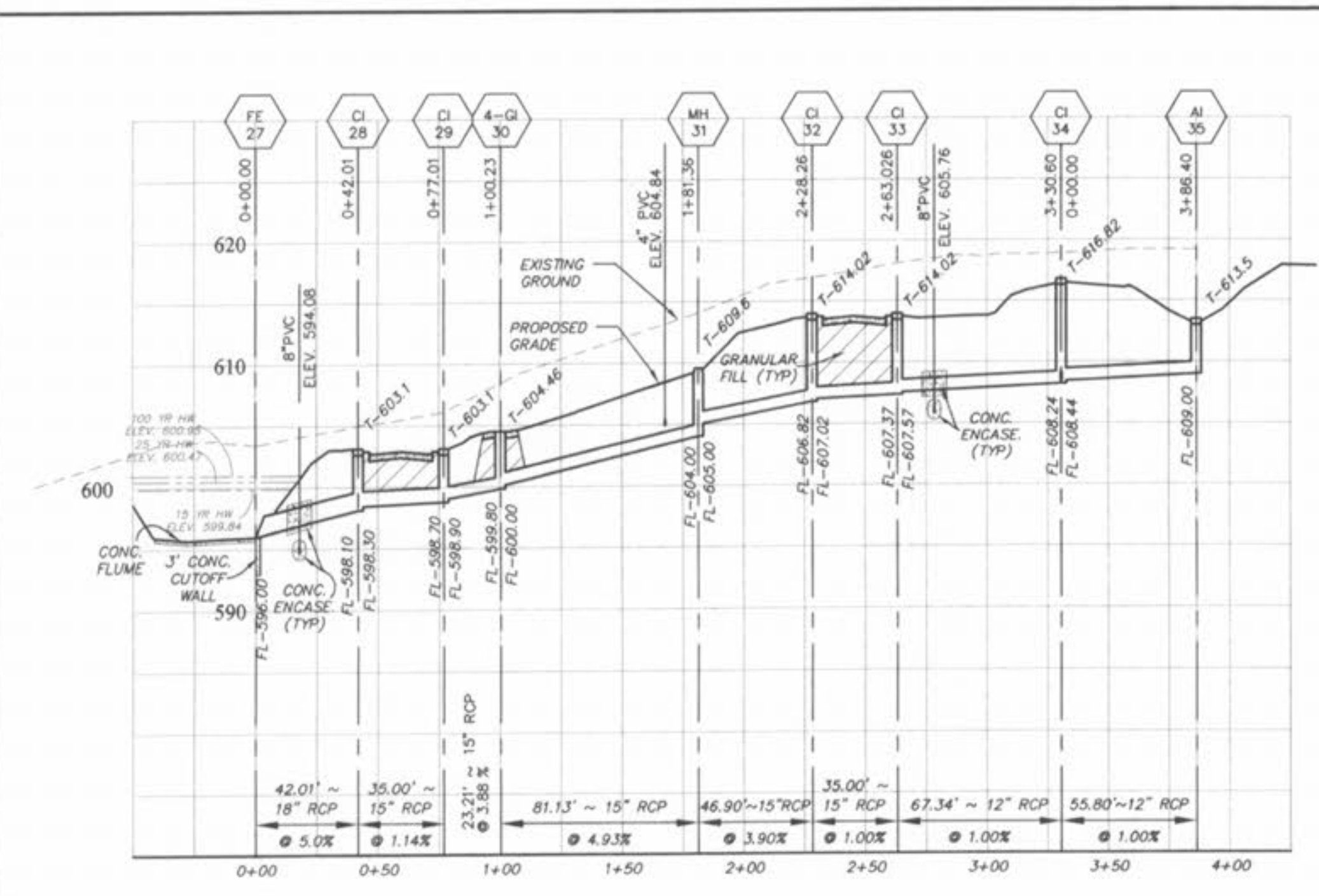
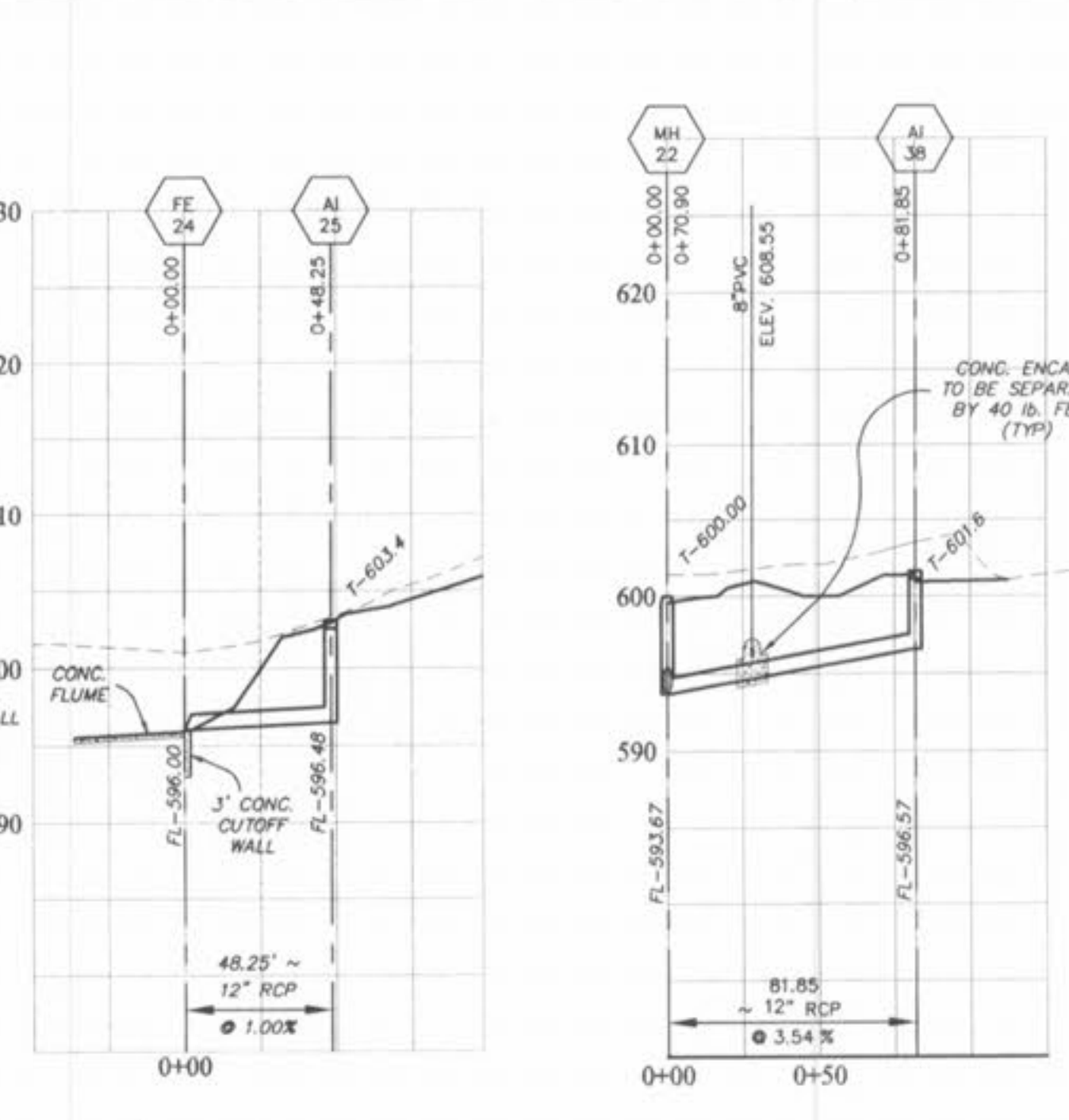
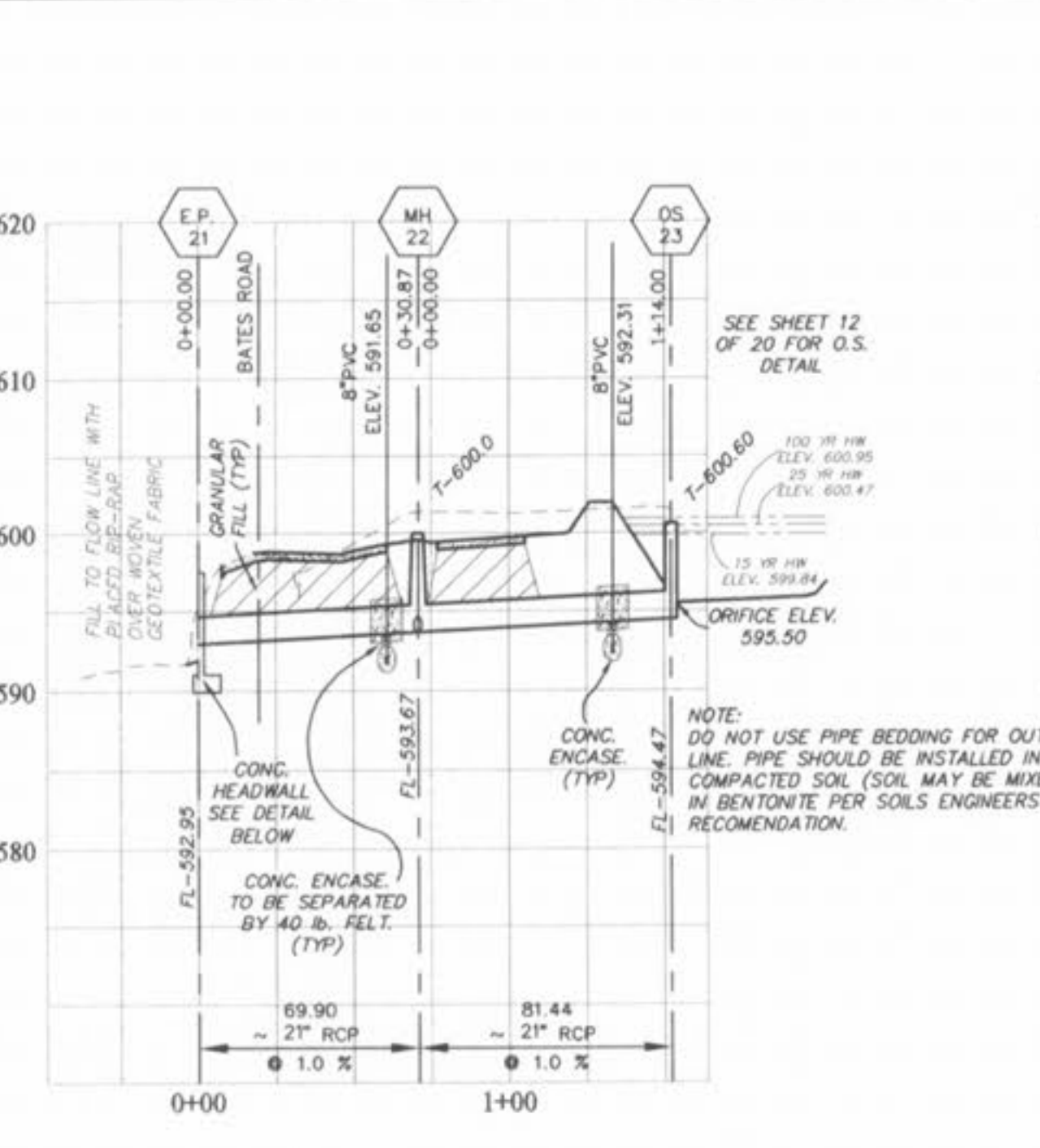
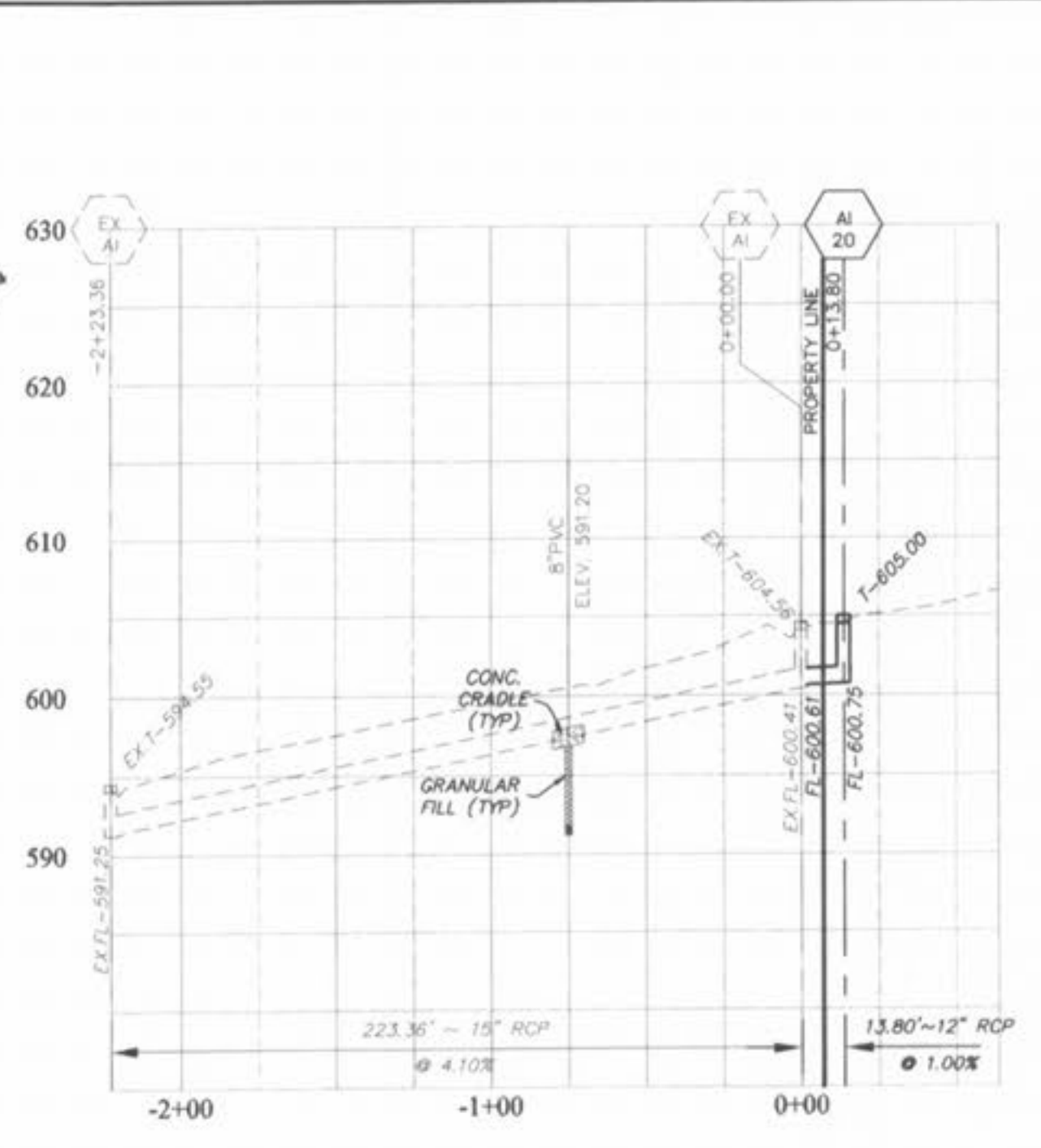
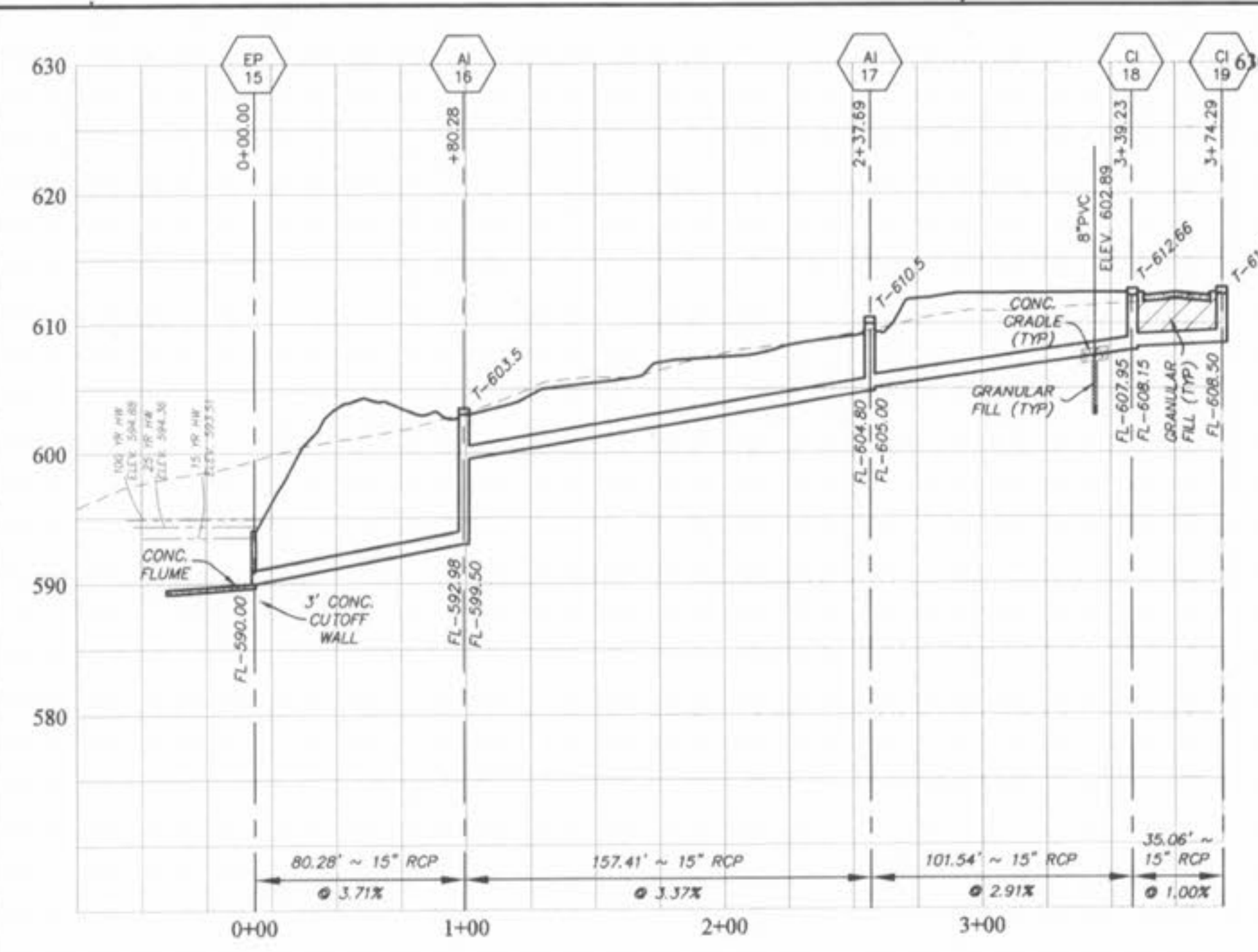
HORIZONTAL SCALE: 1" = 50'  
 VERTICAL SCALE: 1" = 10'

IF THE STORM AND SANITARY SEWERS ARE PARALLEL AND IN THE SAME TRENCH OR OVERLAP, THE UPPER PIPE SHALL BE PLACED ON A SHELF AND THE LOWER PIPE SHALL BE BEDDED IN COMPACTED GRANULAR FILL TO THE FLOW LINE OF THE UPPER PIPE.

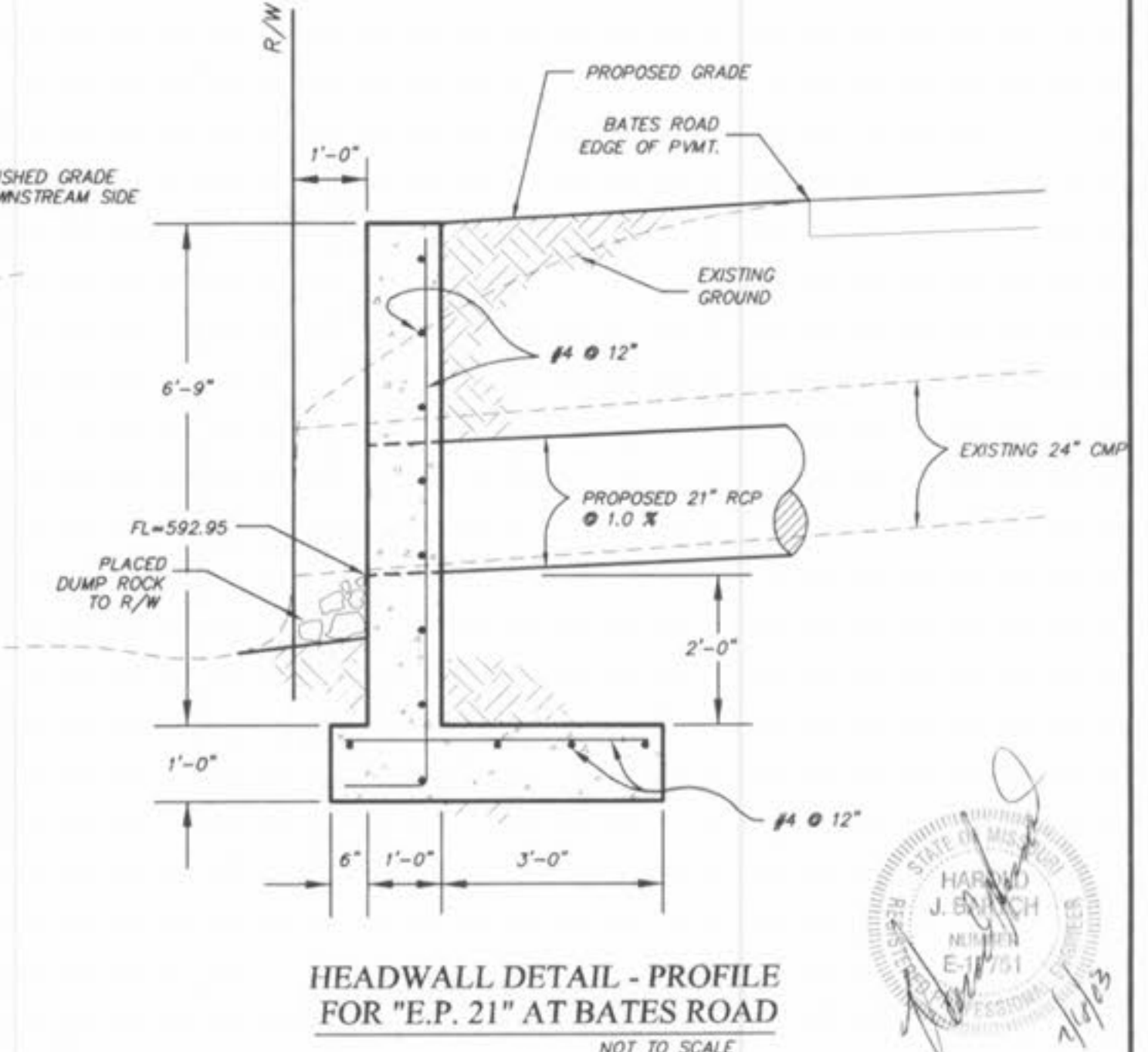
ALL SANITARY LATERAL STREET CROSSINGS, IF TRENCHED, SHALL BE BACKFILLED WITH GRANULAR MATERIAL (AGGREGATE).

STORM SEWER PIPES WHICH CROSS OVER EXISTING OR PROPOSED SANITARY SEWER TRENCHES SHALL BE CRADLED IN CONCRETE.

THROUGH THE FULL WIDTH OF THE SANITARY SEWER TRENCH, THE TRENCH SHALL BE BACKFILLED AND COMPACTED GRANULAR FILL TO THE BOTTOM OF THE CONCRETE CRADLE.



HEADWALL DETAIL - FRONT VIEW  
 FOR "E.P. 21" AT BATES ROAD  
 NOT TO SCALE



HEADWALL DETAIL - PROFILE  
 FOR "E.P. 21" AT BATES ROAD  
 NOT TO SCALE

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NO.	DATE	DESCRIPTION	BY
1	03/11/03	REVISED STORM SEWER LAYOUT AT NORTH ENTRANCE	ROW
2	04/20/03	REVISED PER DUCKETT CREEK SANITARY DISTRICT	ROW
3	06/02/03	REVISED PER ST. CHARLES CO. HWY	ROW
4	06/11/03	REVISED STORM SEWER OUTFALL UNDER BATES ROAD.	ROW
5	06/26/03	REVISED STORM SEWER OUTFALL UNDER BATES ROAD.	ROW
6	07/02/03	REVISED STORM SEWER OUTFALL UNDER BATES ROAD.	ROW
7	07/16/03	REVISED PER THE CITY OF OTTAWA	ROW

DRAWN: E.J.S. DATE: 03-04-03  
 CHECKED: DATE:  
 PROJECT # 02077.JCCH.OOR FIELD 1997B  
 TASK # 6 BOOK 821