

NOTES:
1. 8" P.V.C. TO BE S.D. 33.

5	5-1-85
6	
7	
8	

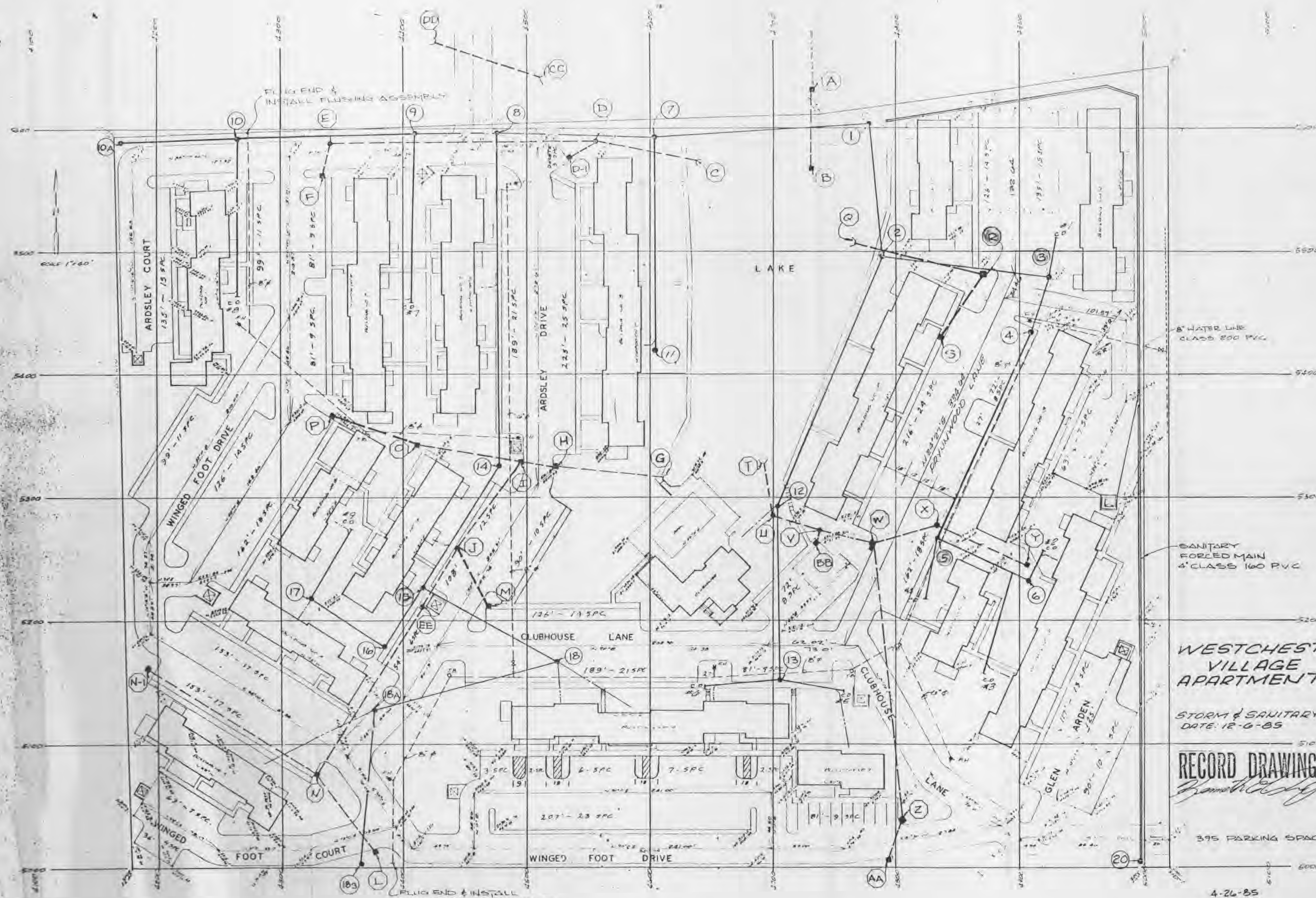
DRAWN	JOB NO.	2140
XT		
TRACED	DATE	1-17-84
CHECKED	SCALE	VERT. 1"=10' HORIZ. 1"=40'

IKW/WARDLAW ASSOCIATES
ARCHITECTS · ENGINEERS · PLANNERS
6 WESTBURY DR. ST. CHARLES, MISSOURI



WESTCHESTER APARTMENT VILLAGE
O'Fallon, Missouri
DEVELOPED BY THE WESTCHESTER PARTNERSHIP

SEWER PLAN
DRAWING NO. 302



8" WATER LINE
CLASS 200 PVC

SANITARY
FORCED MAIN
4" CLASS 160 PVC

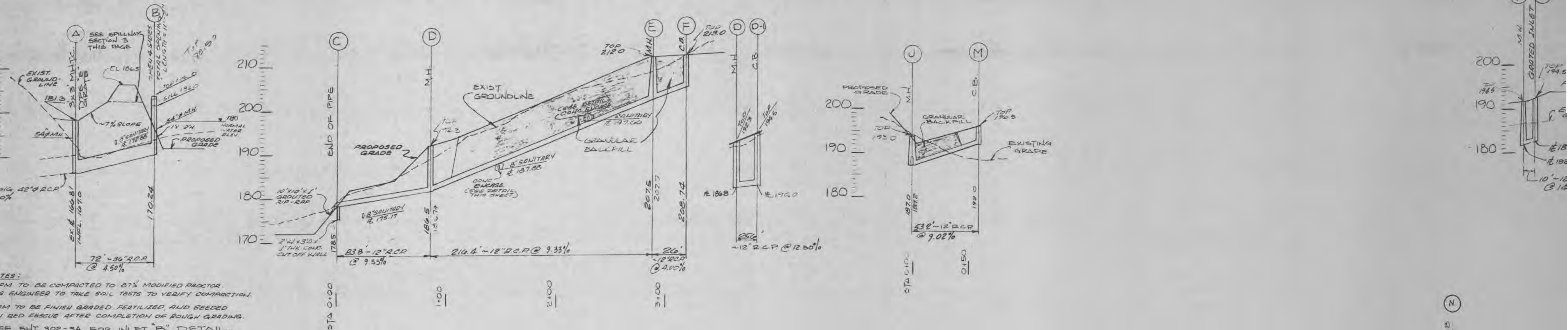
**WESTCHESTER
VILLAGE
APARTMENTS**

STORM & SANITARY SEWERS
DATE: 12-6-85

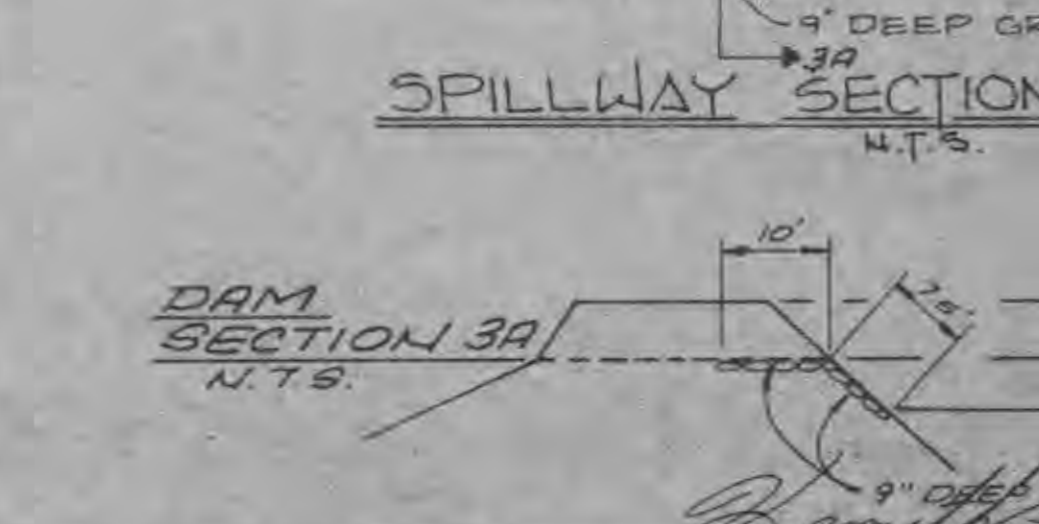
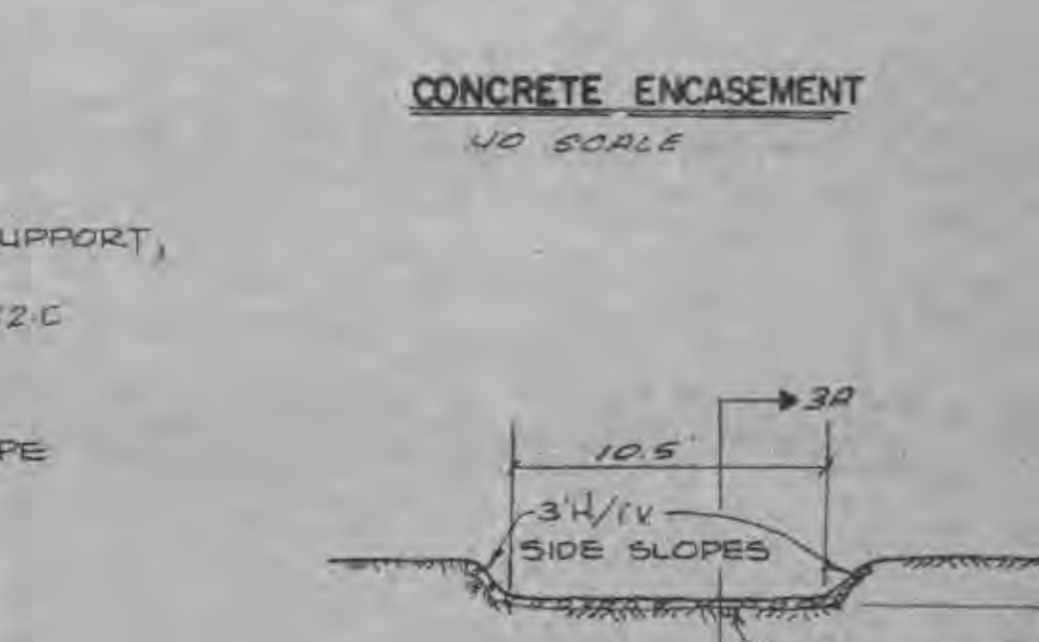
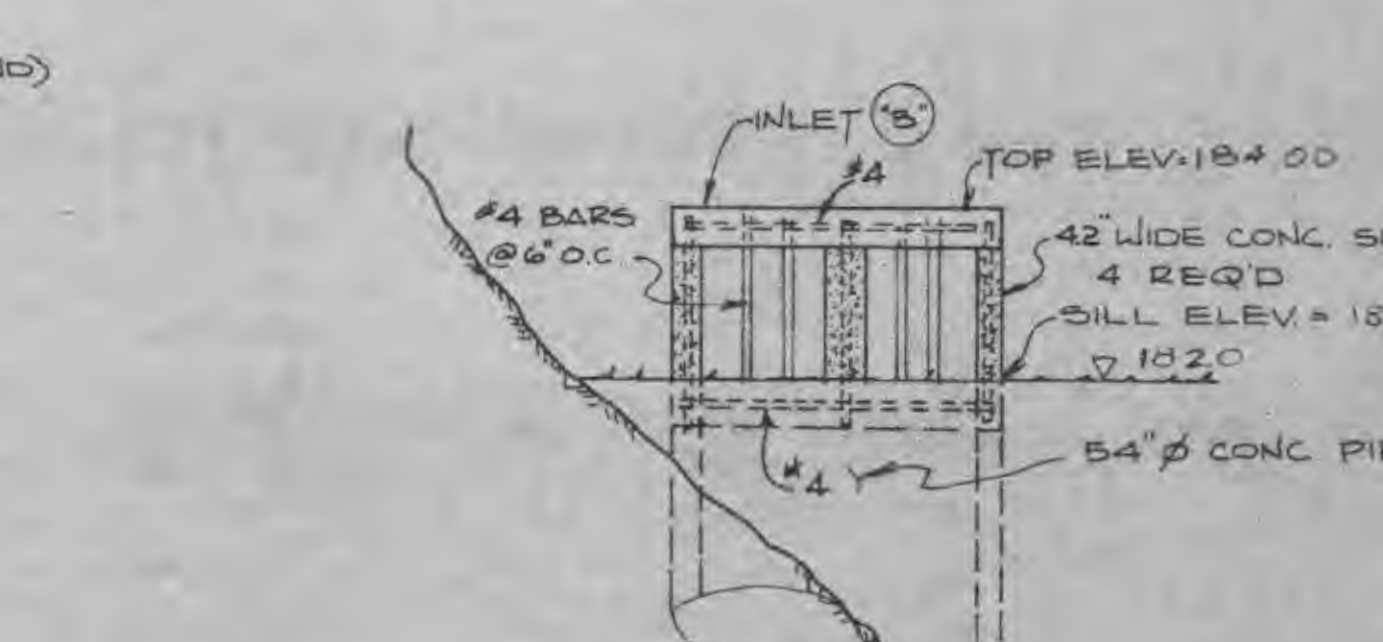
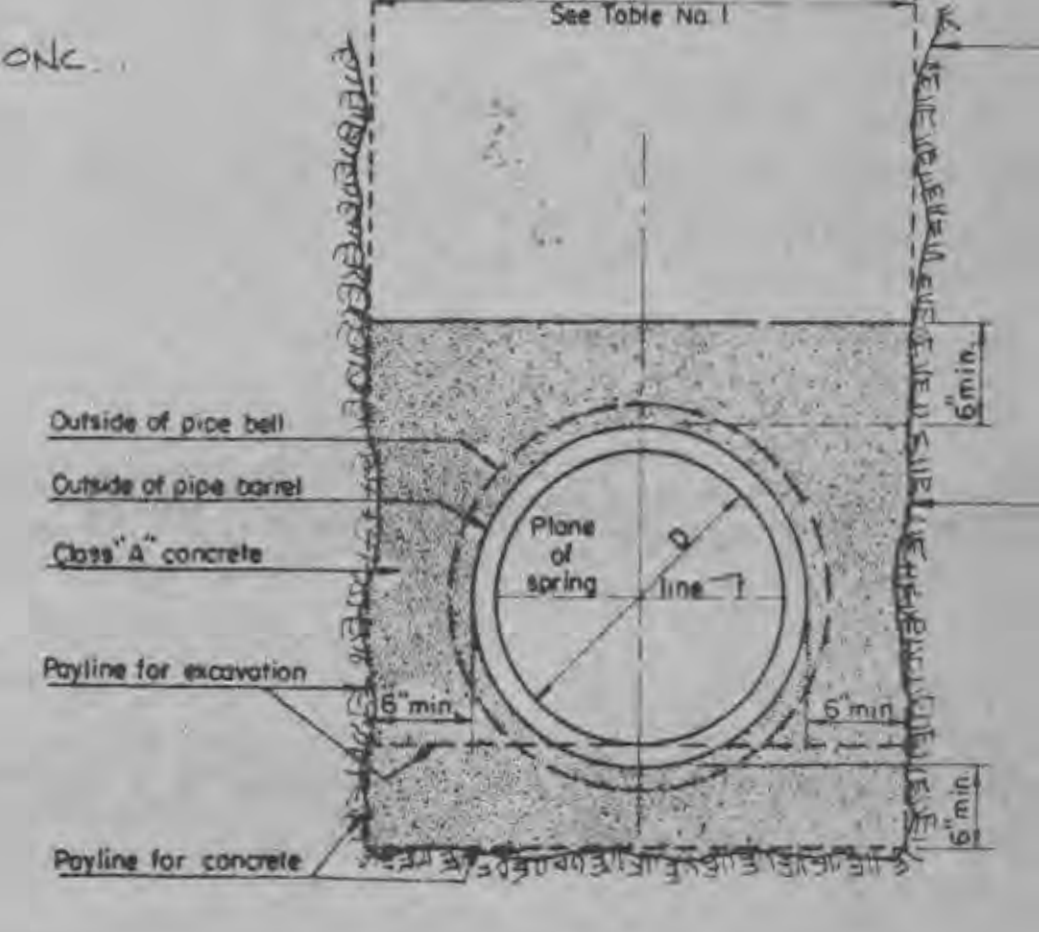
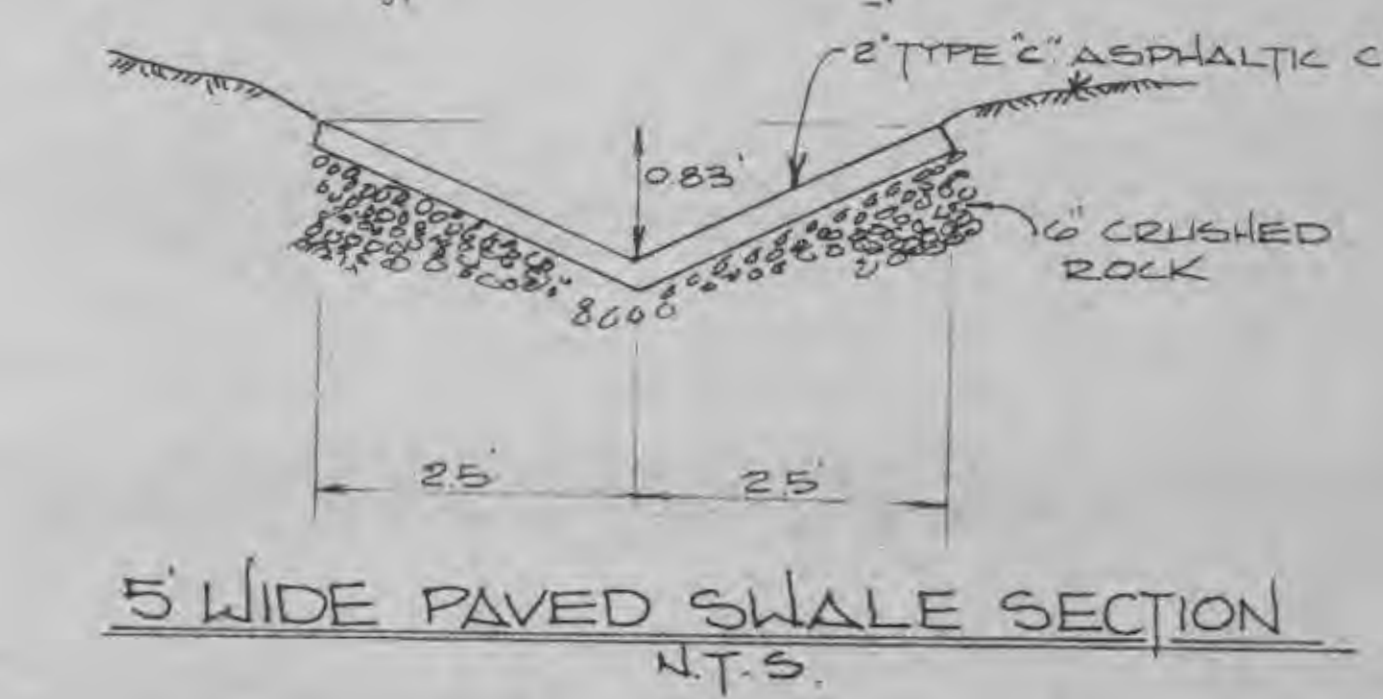
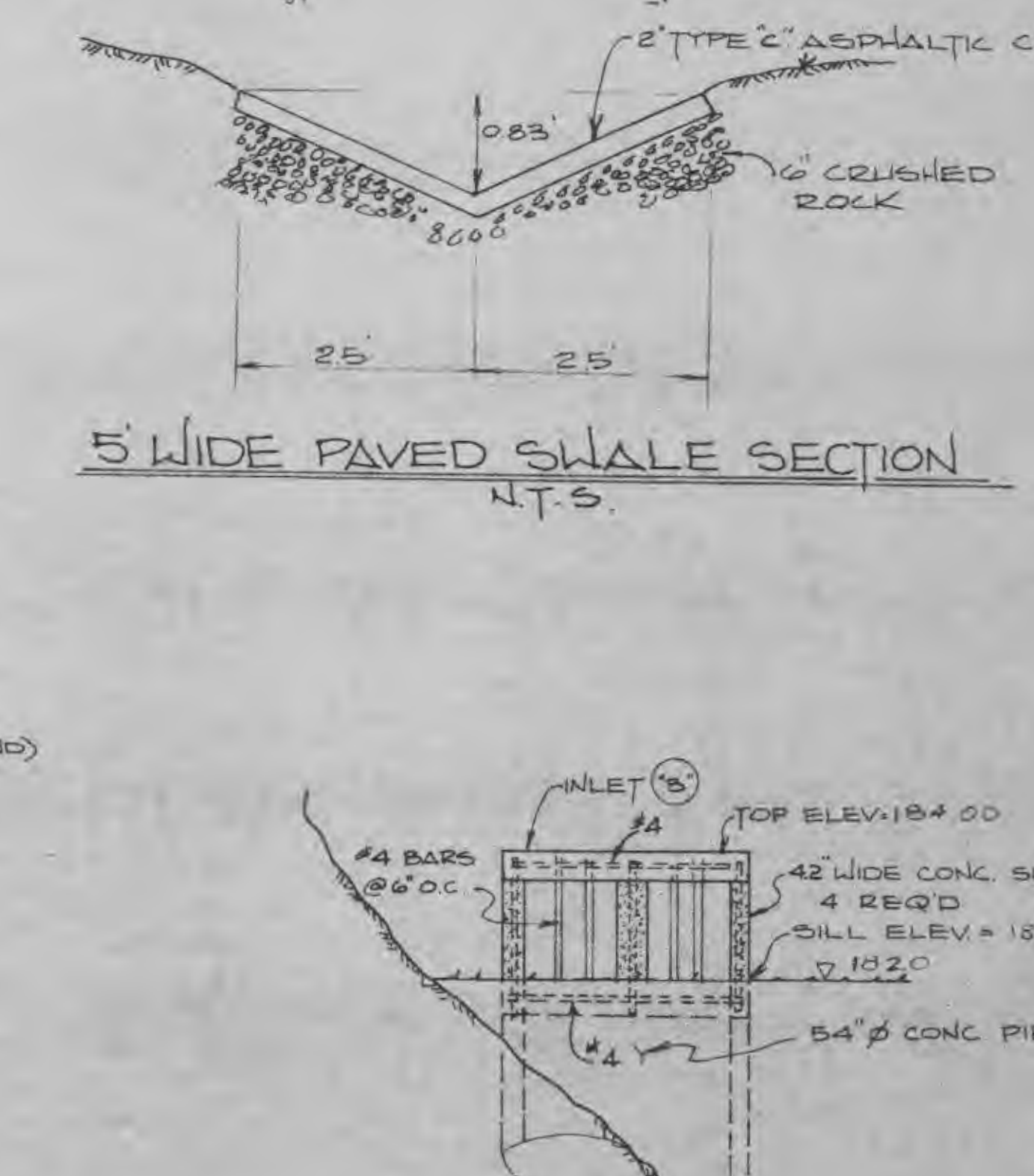
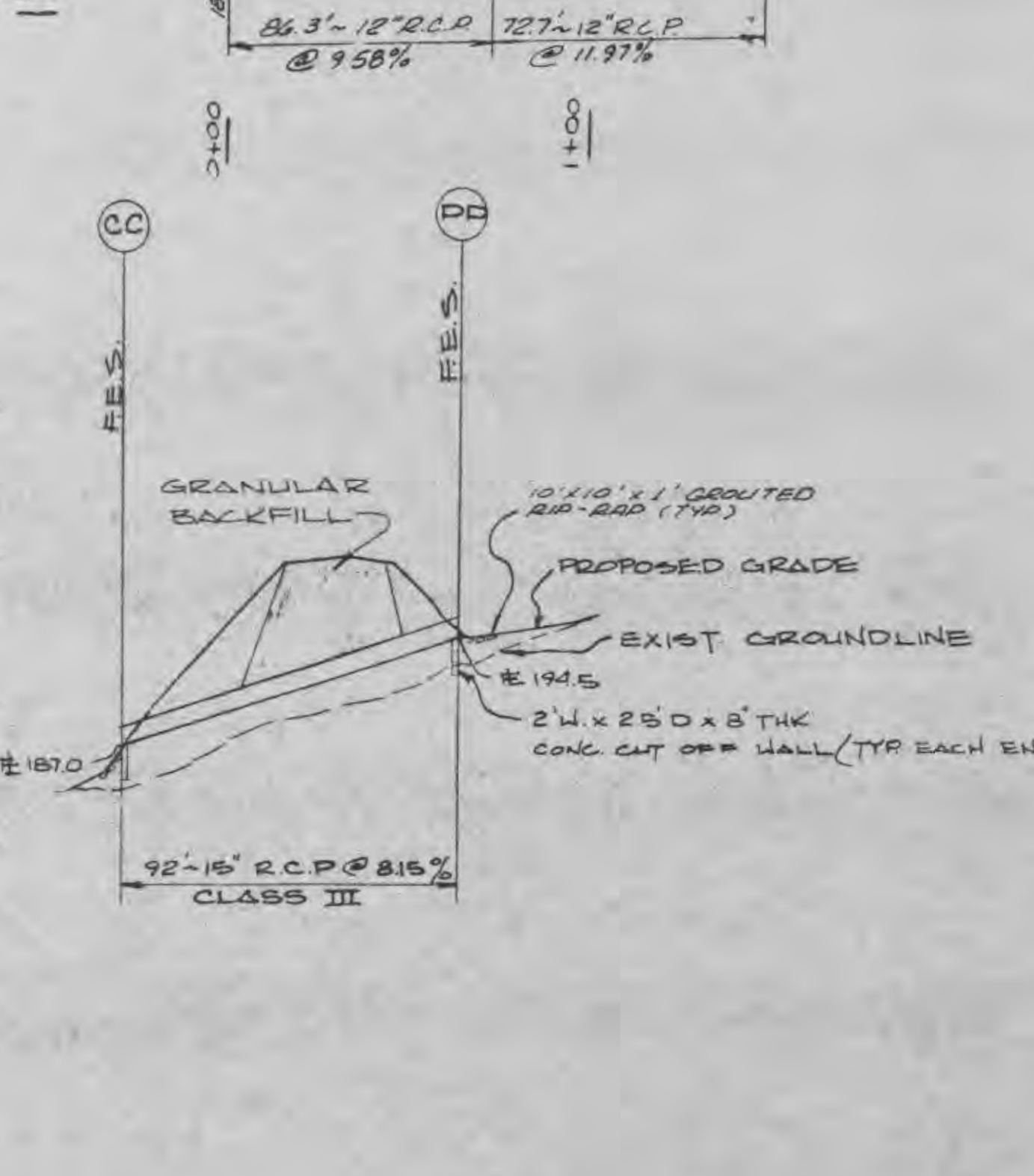
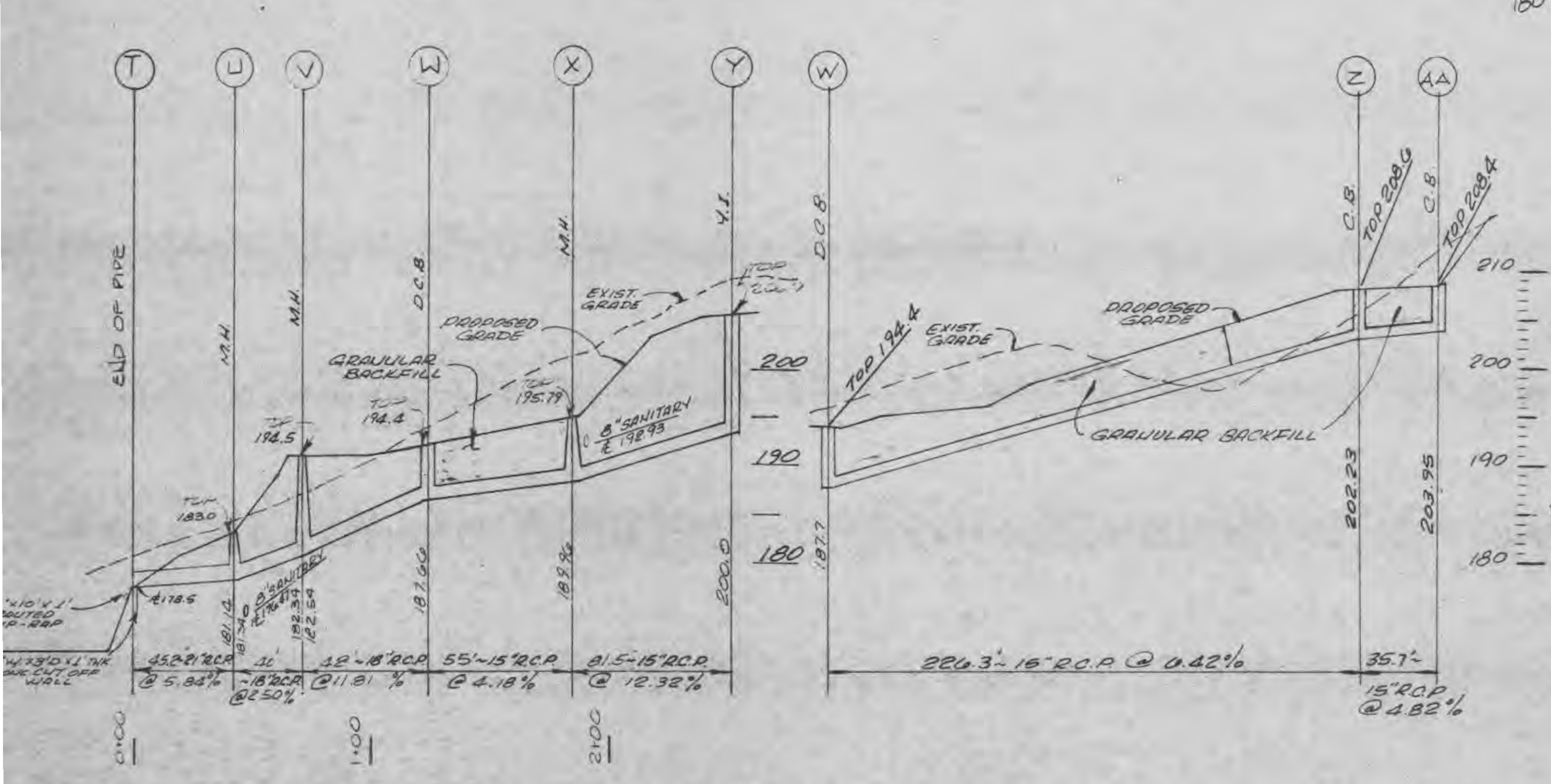
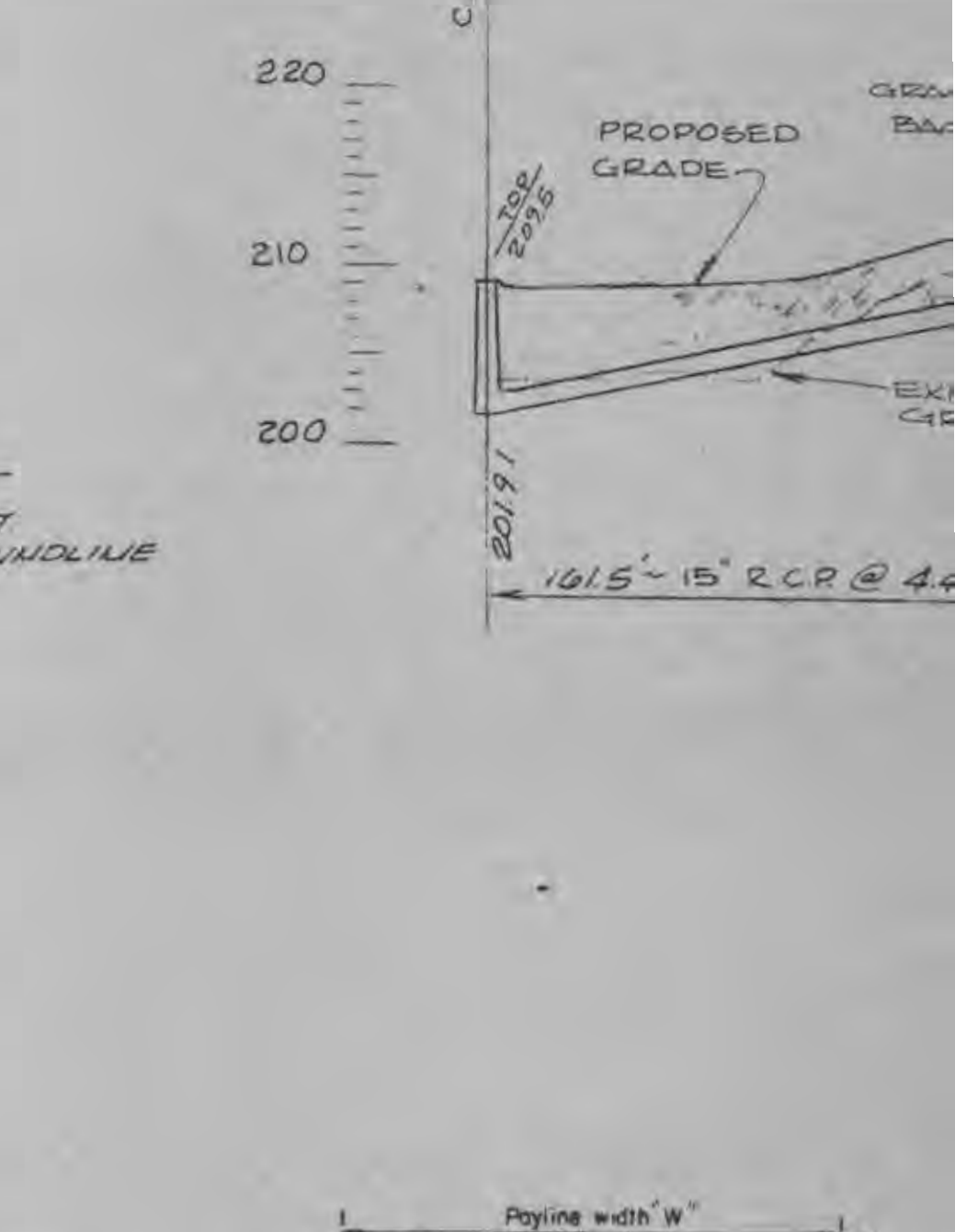
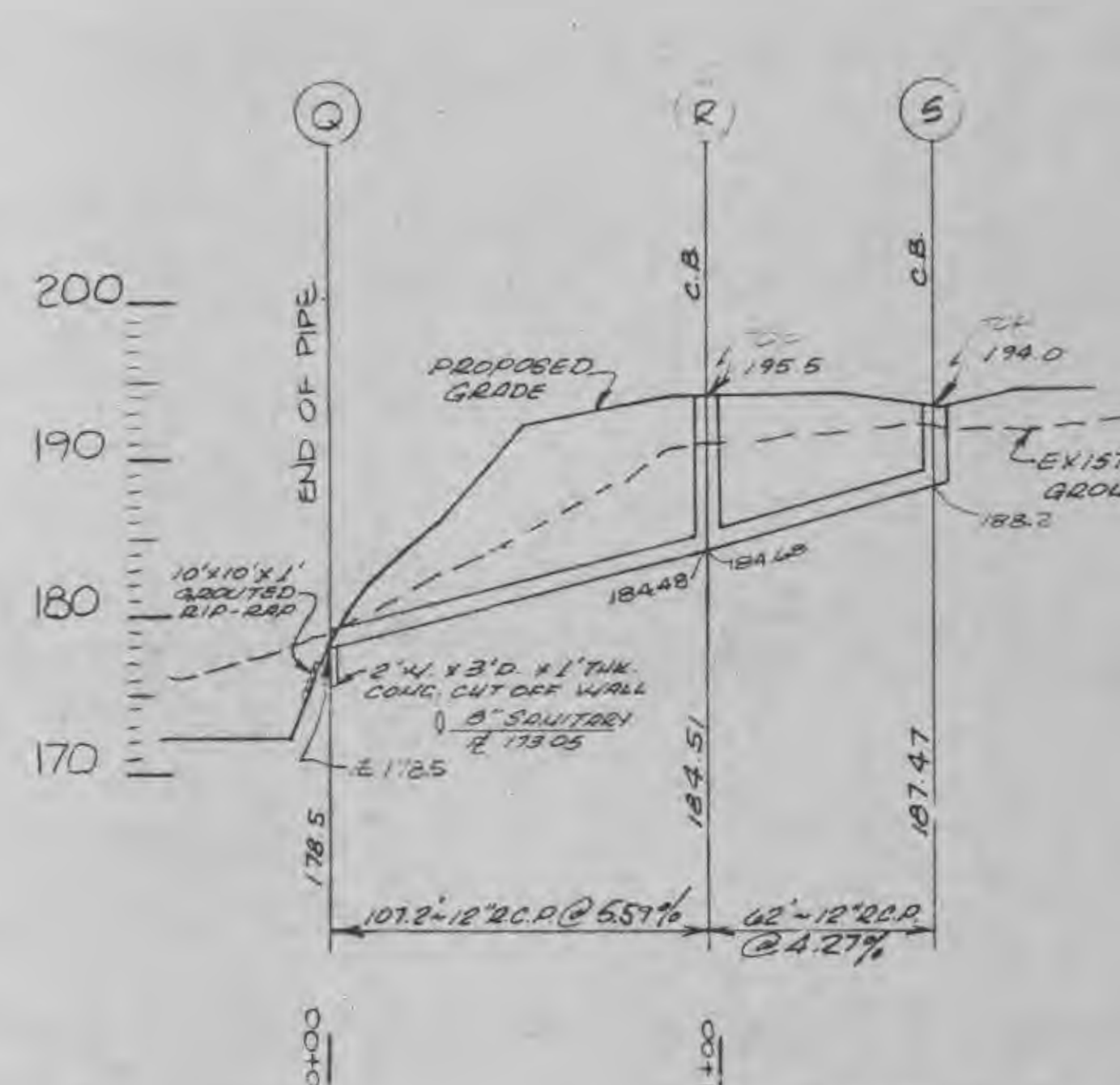
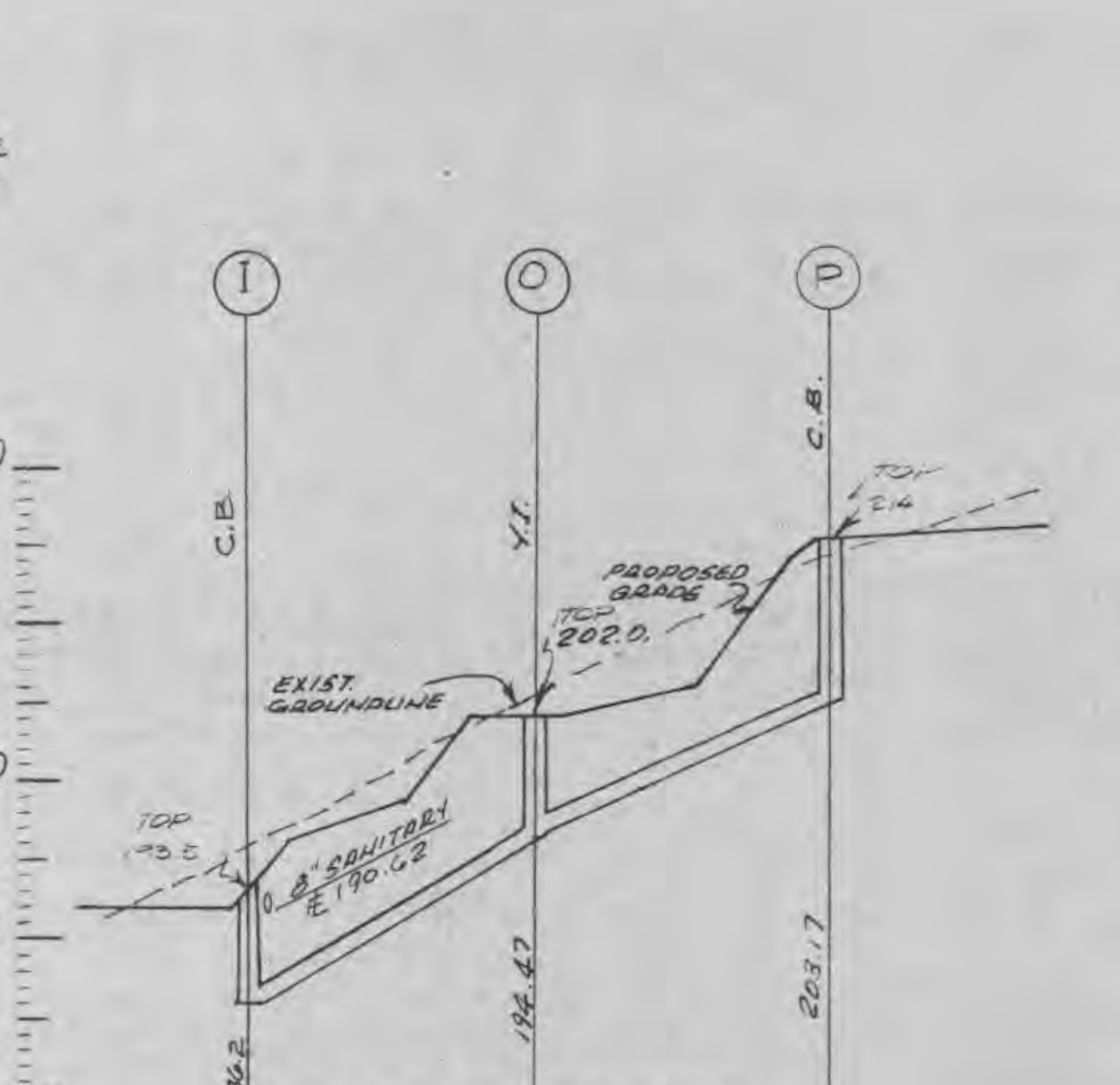
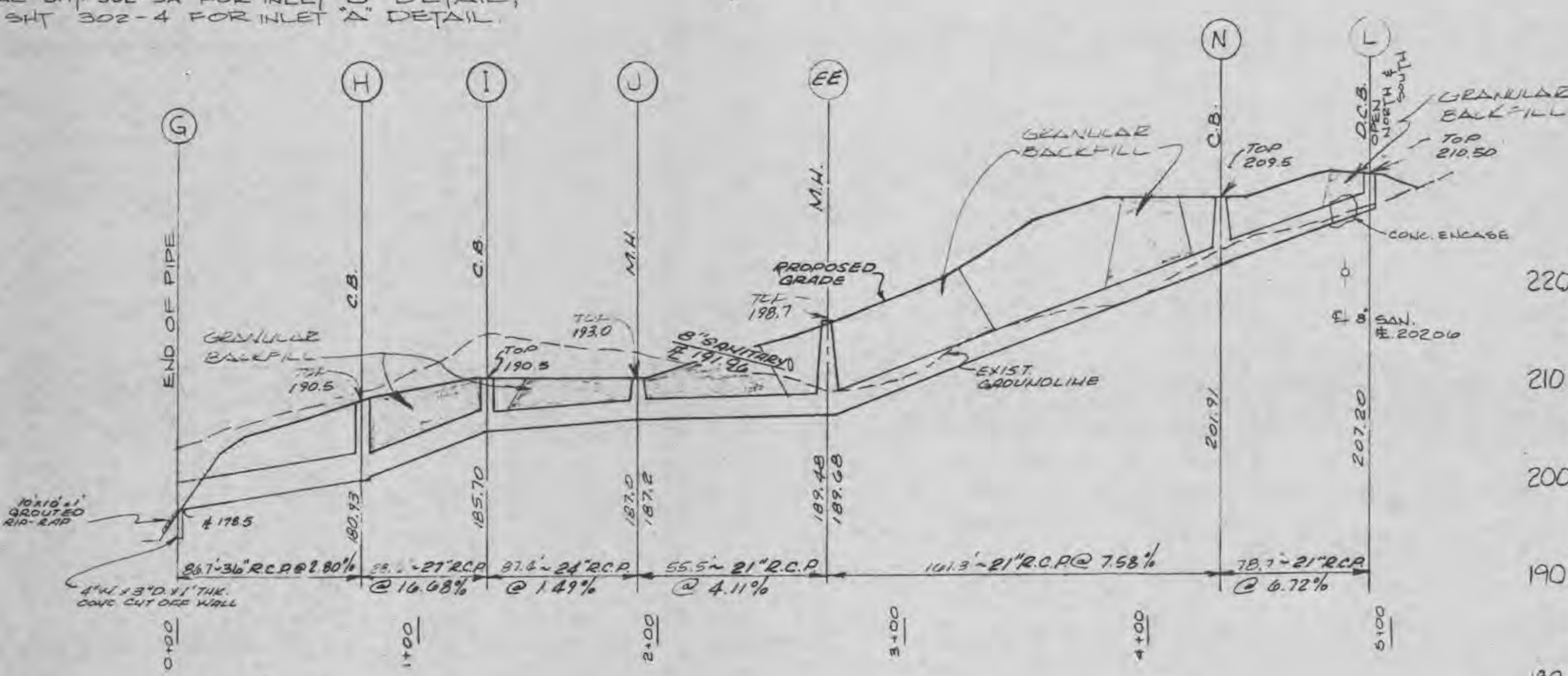
RECORD DRAWING
Francis J. [Signature]

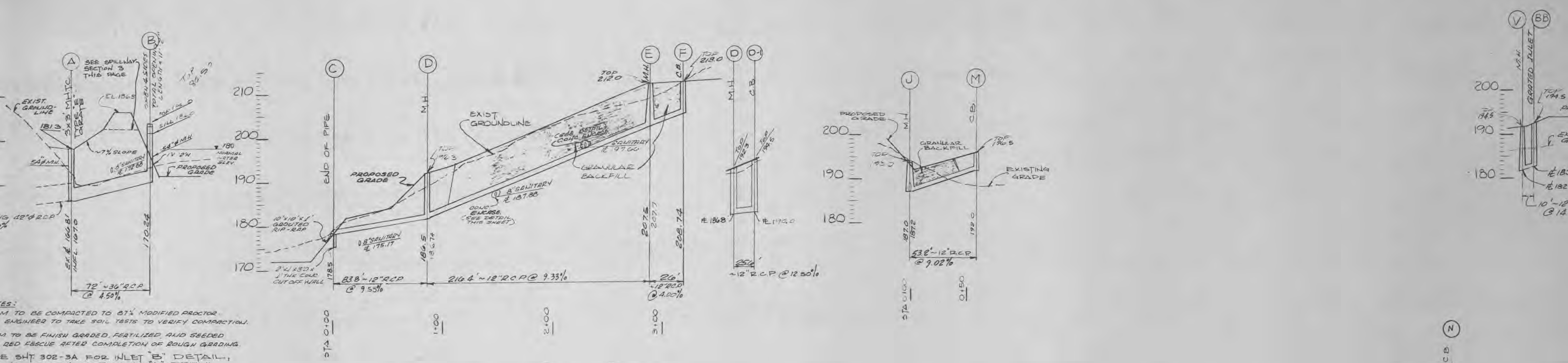
395 PARKING SPACES

4-26-85
7-22-85
REVISED: 8-13-85
10-2-85

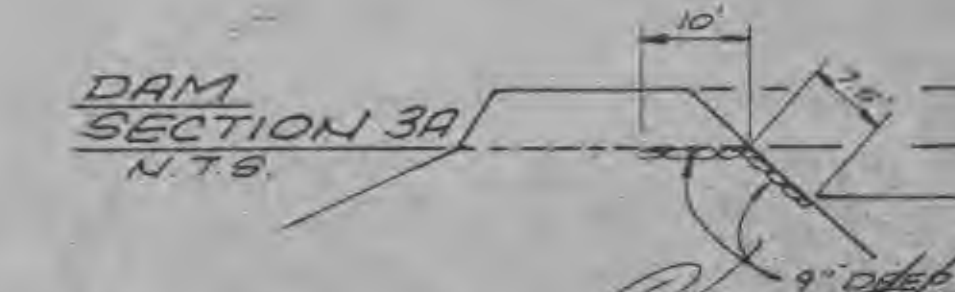
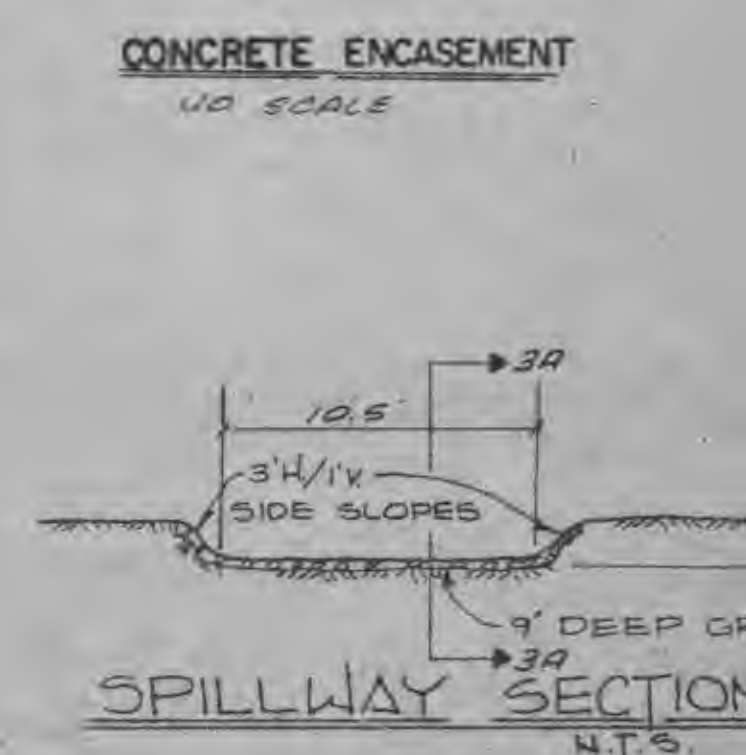
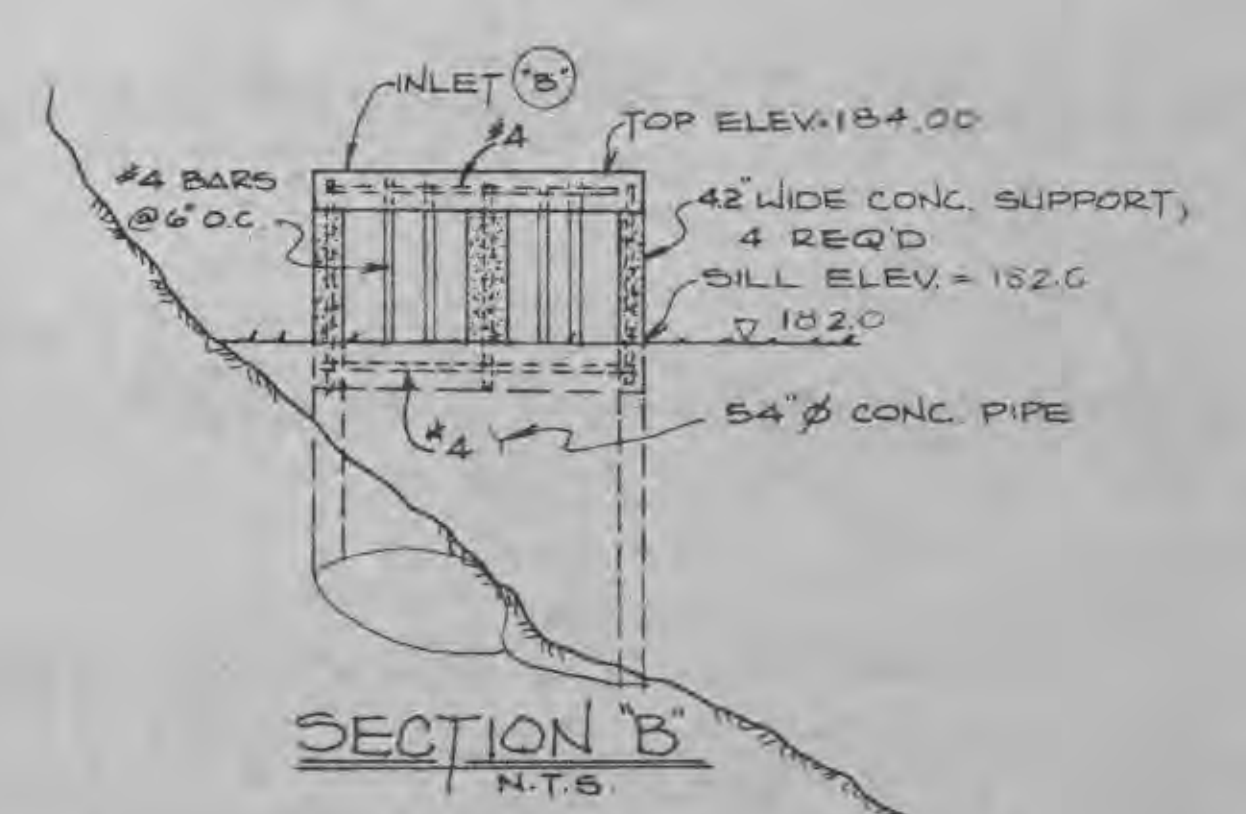
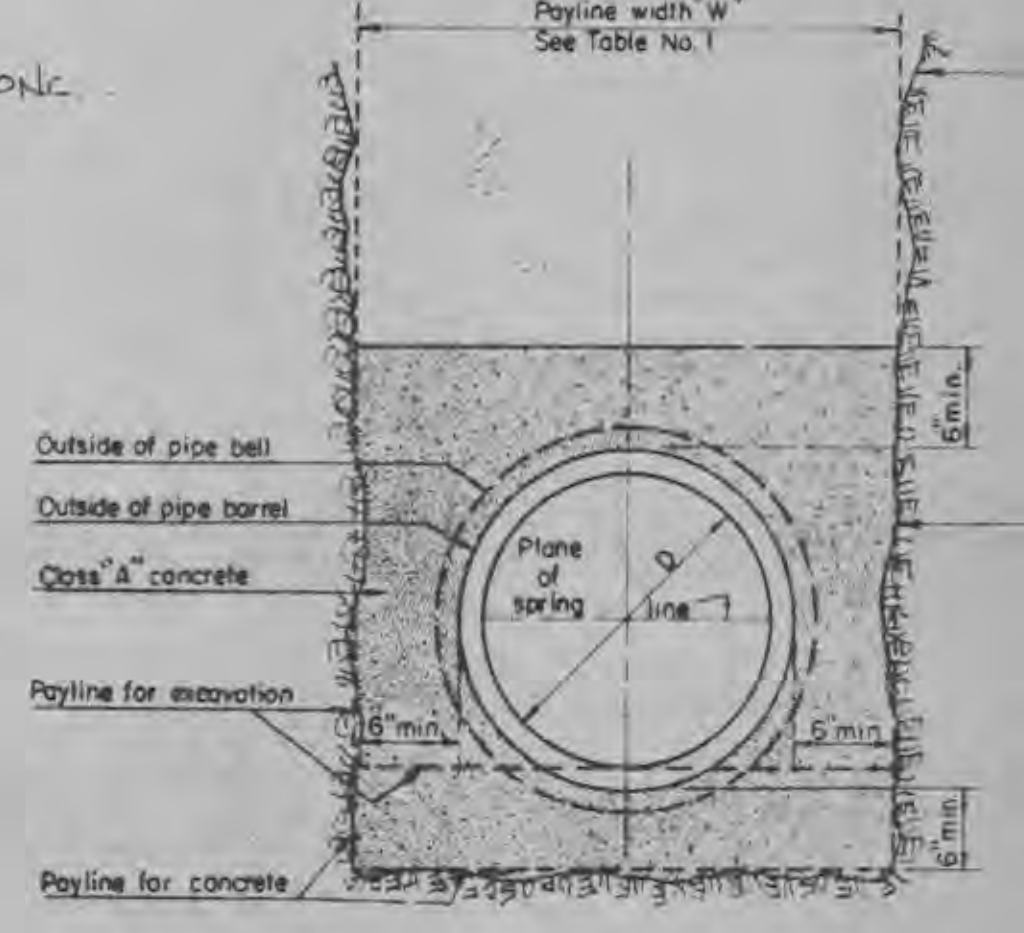
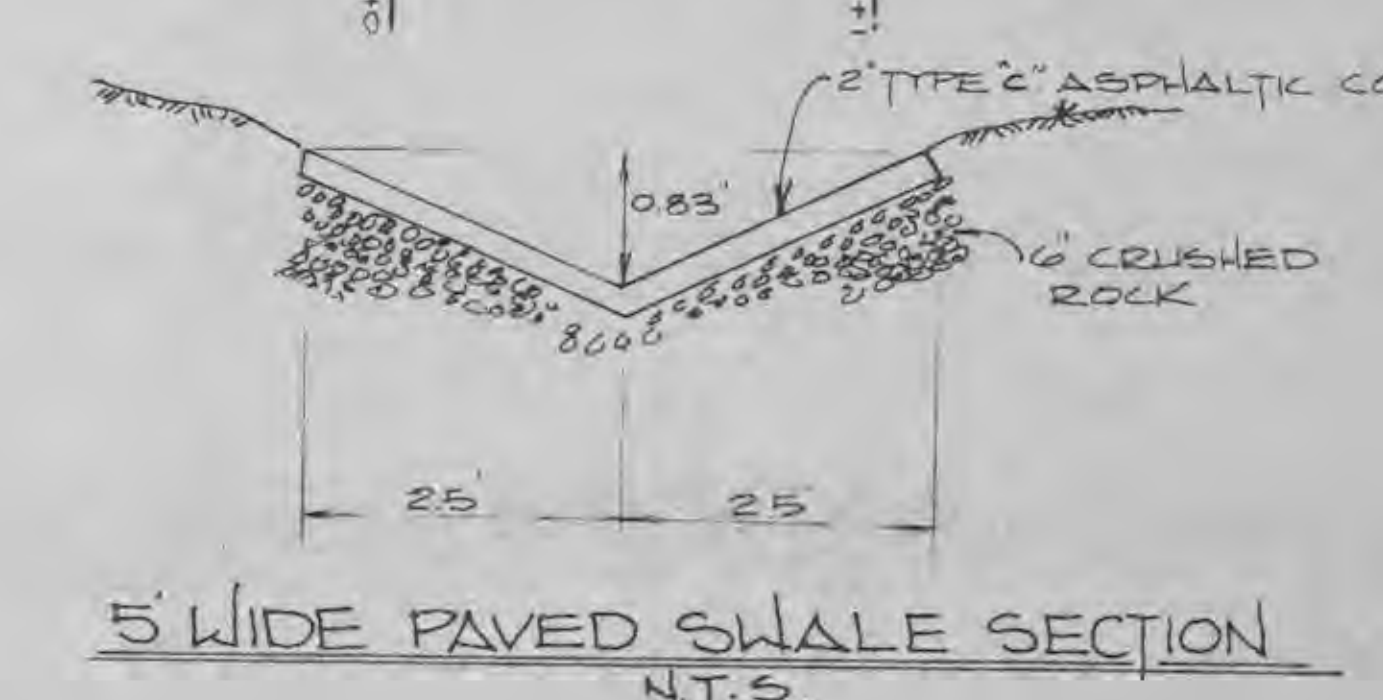
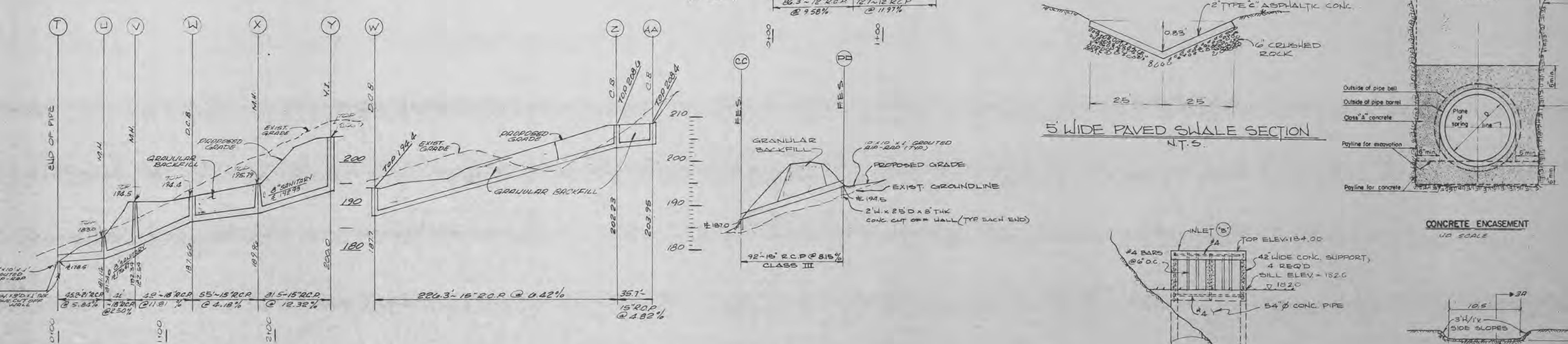
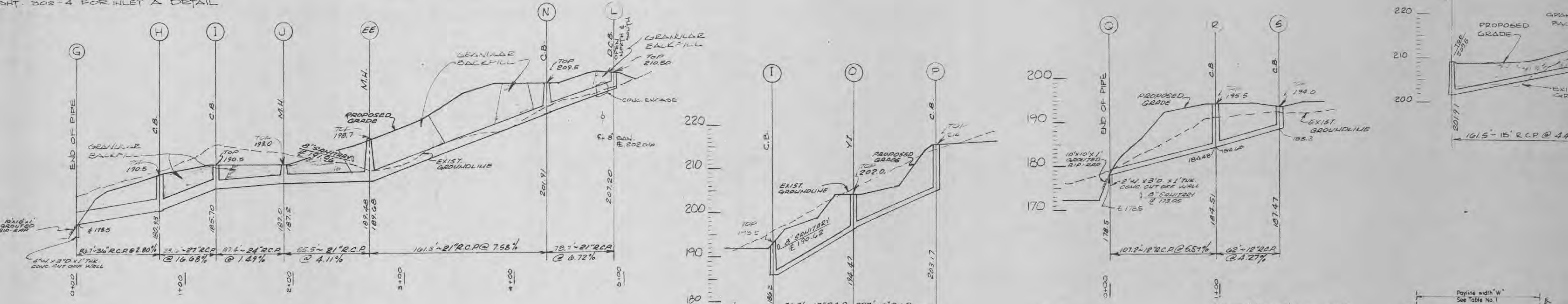


1. ALL SOIL TO BE COMPACTED TO 87% MODIFIED PROCTOR.
 2. ENGINEER TO TAKE SOIL TESTS TO VERIFY COMPACTION.
 3. ALL SOIL TO BE FINISH GRADED, FERTILIZED AND SEED.
 4. ALL SOIL TO BE RED FESCUE AFTER COMPLETION OF ROUGH GRADING.
 5. SEE SHT 302-3A FOR INLET 'B' DETAIL.
 6. SEE SHT 302-4 FOR INLET 'A' DETAIL.





NOTES:
 1. ALL SOILS TO BE COMPACTED TO 87% MODIFIED PROCTOR
 2. ENGINEER TO TAKE SOIL TESTS TO VERIFY COMPACTON.
 3. ALL SOILS TO BE FINISH GORDED, FERTILIZED AND SEEDED
 4. RED FESCUE AFTER COMPLETION OF ROUGH GRADING
 5. SEE SHY 302-3A FOR INLET "B" DETAIL,
 6. SHY 302-4 FOR INLET "A" DETAIL.

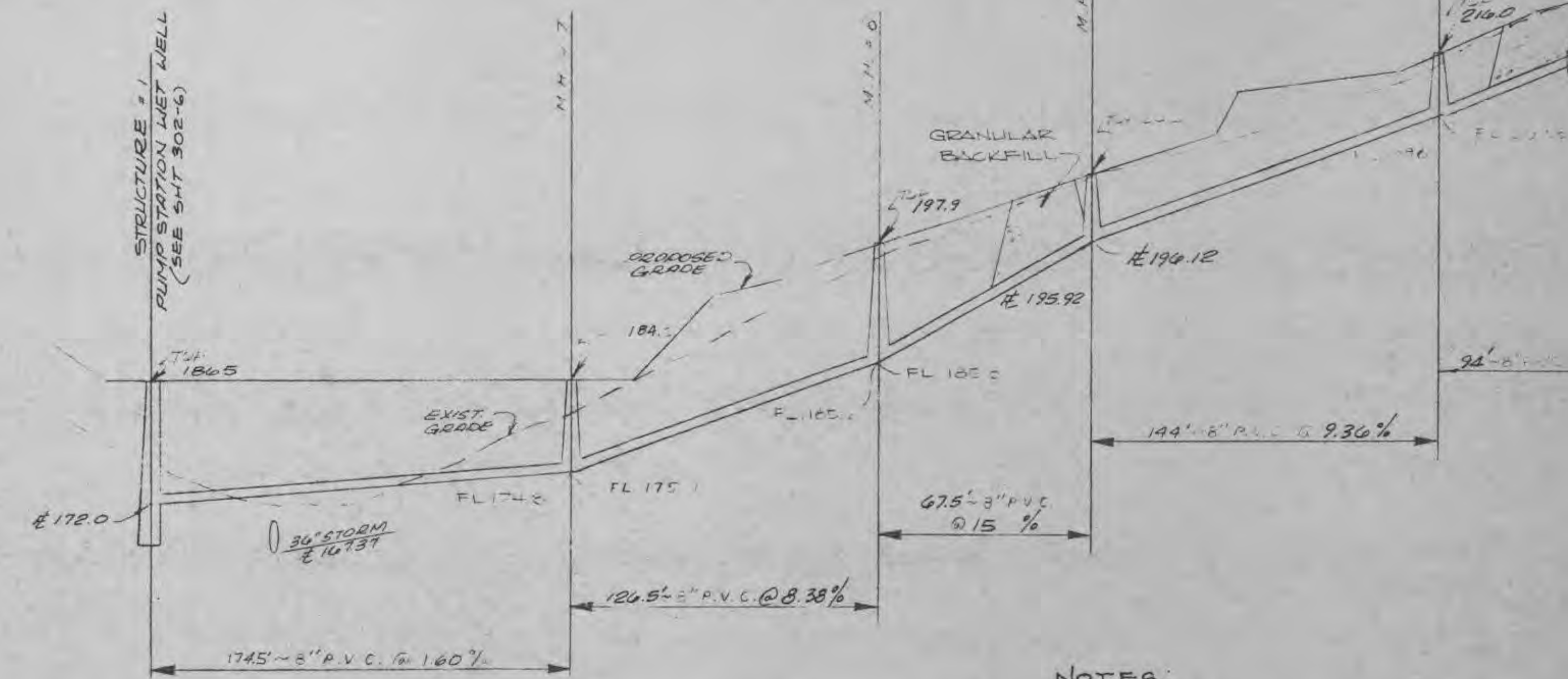
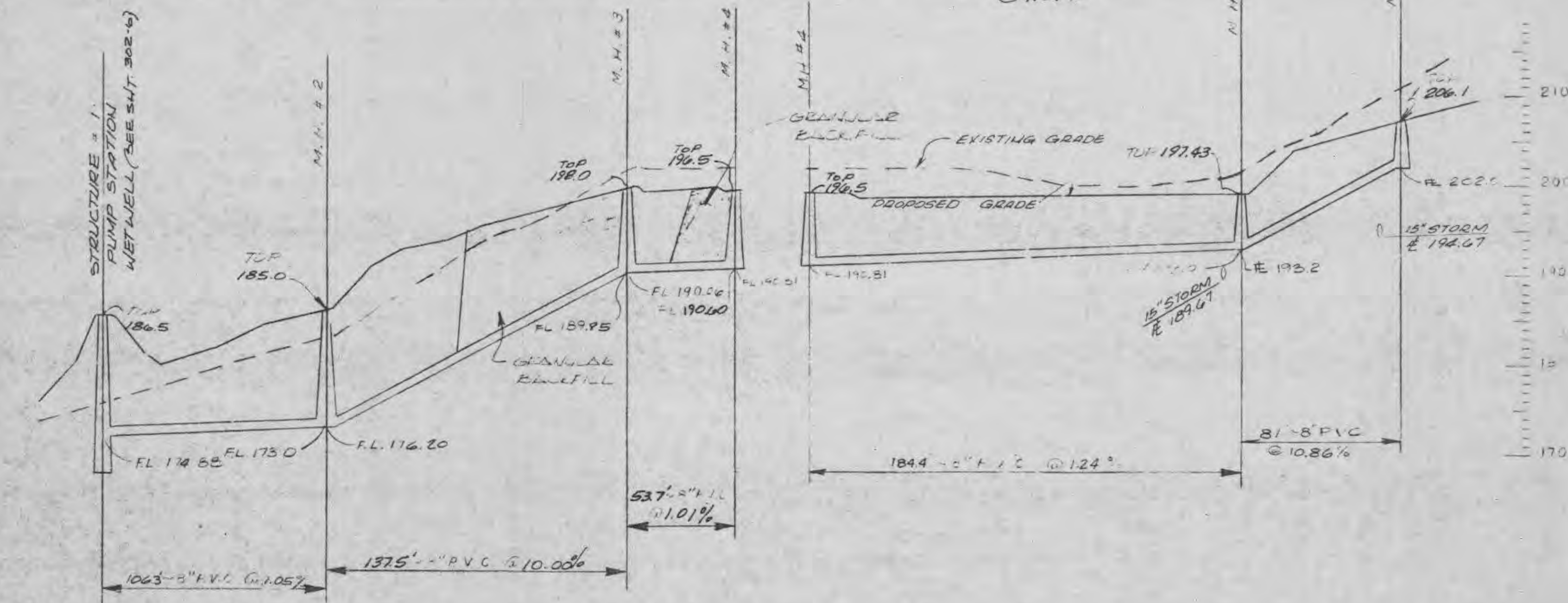
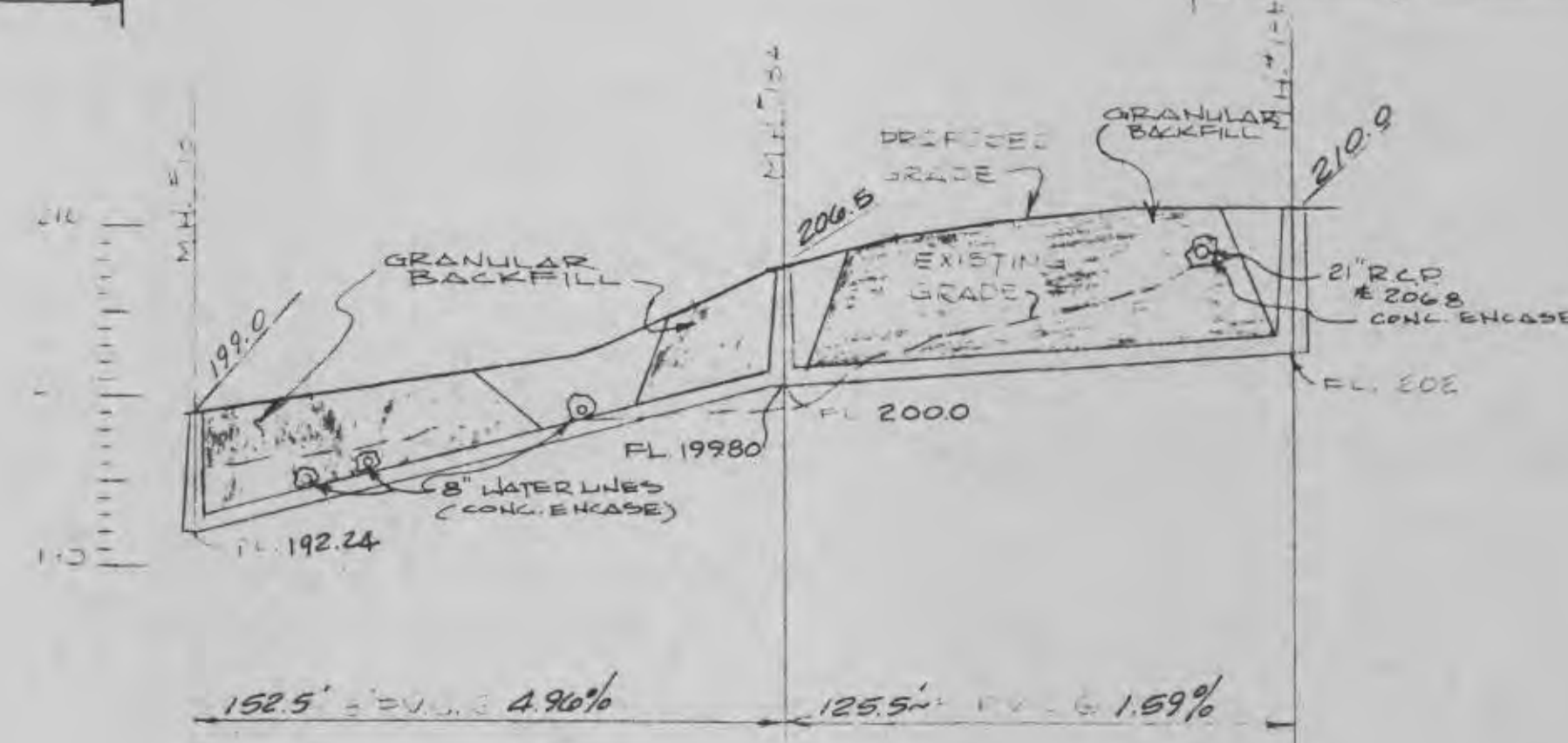
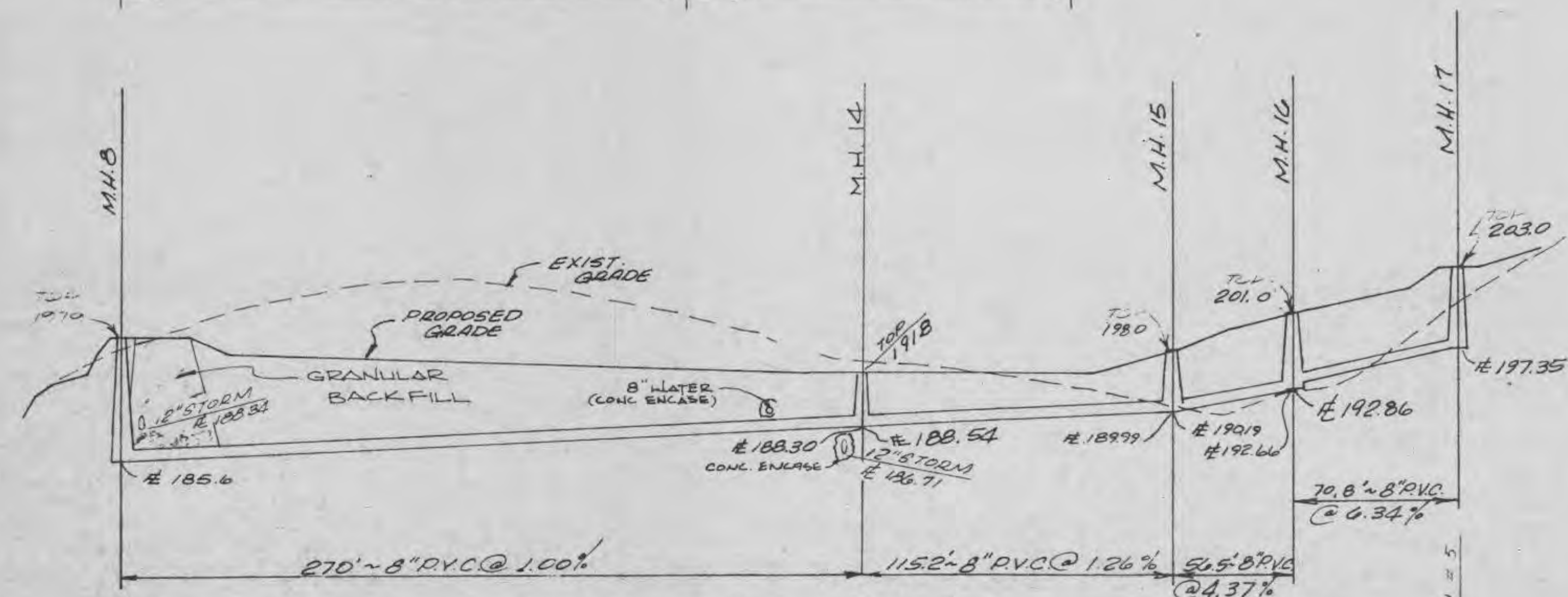
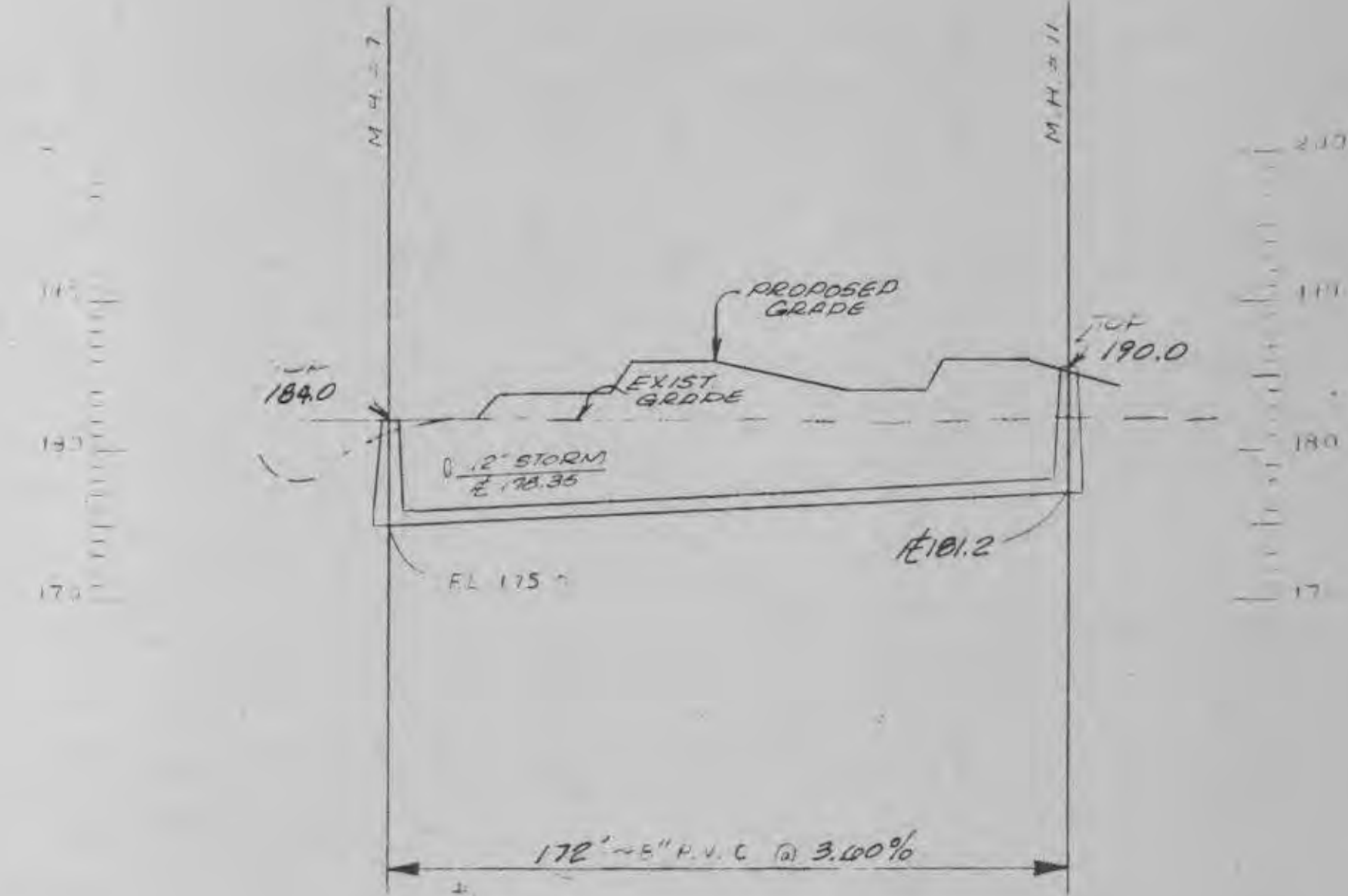
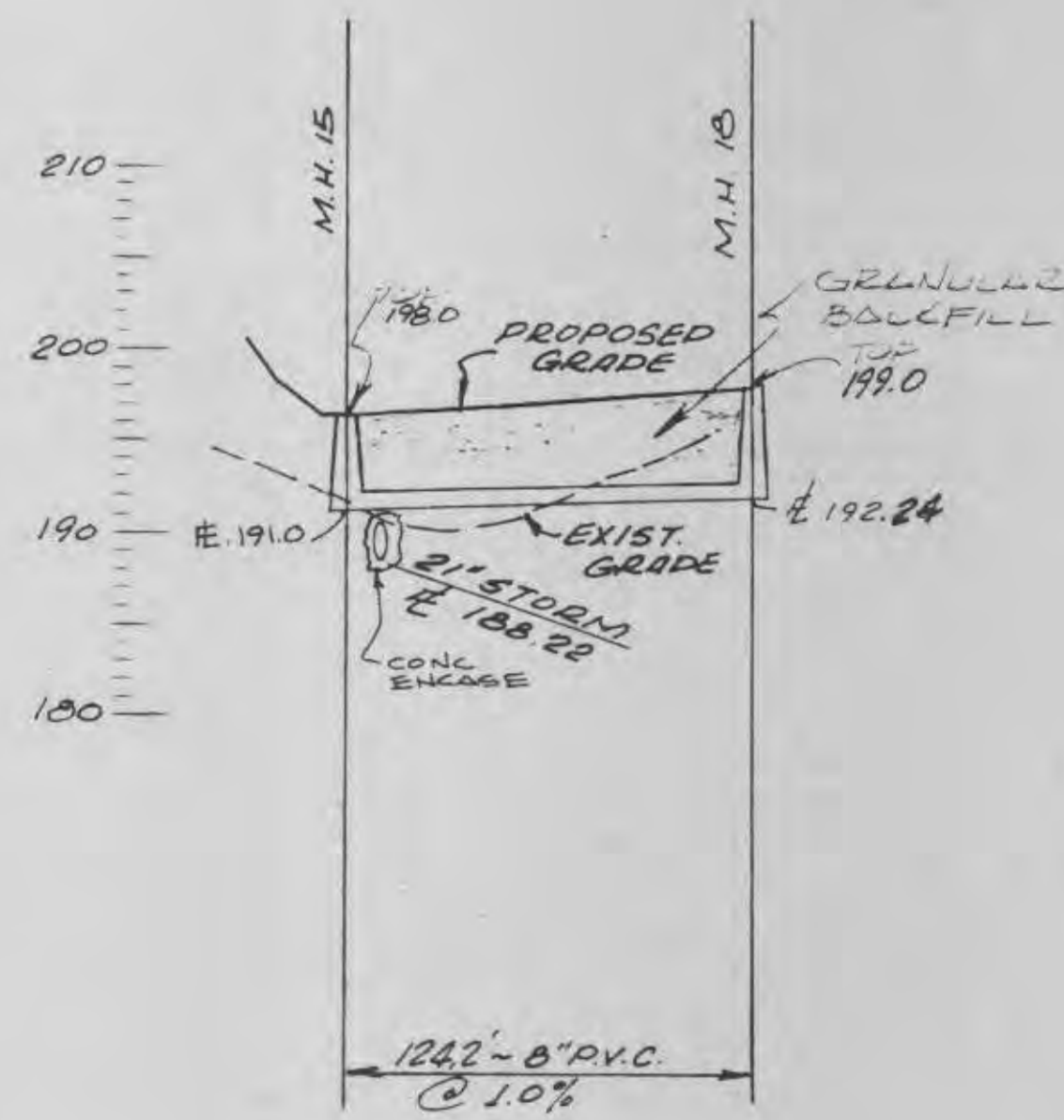
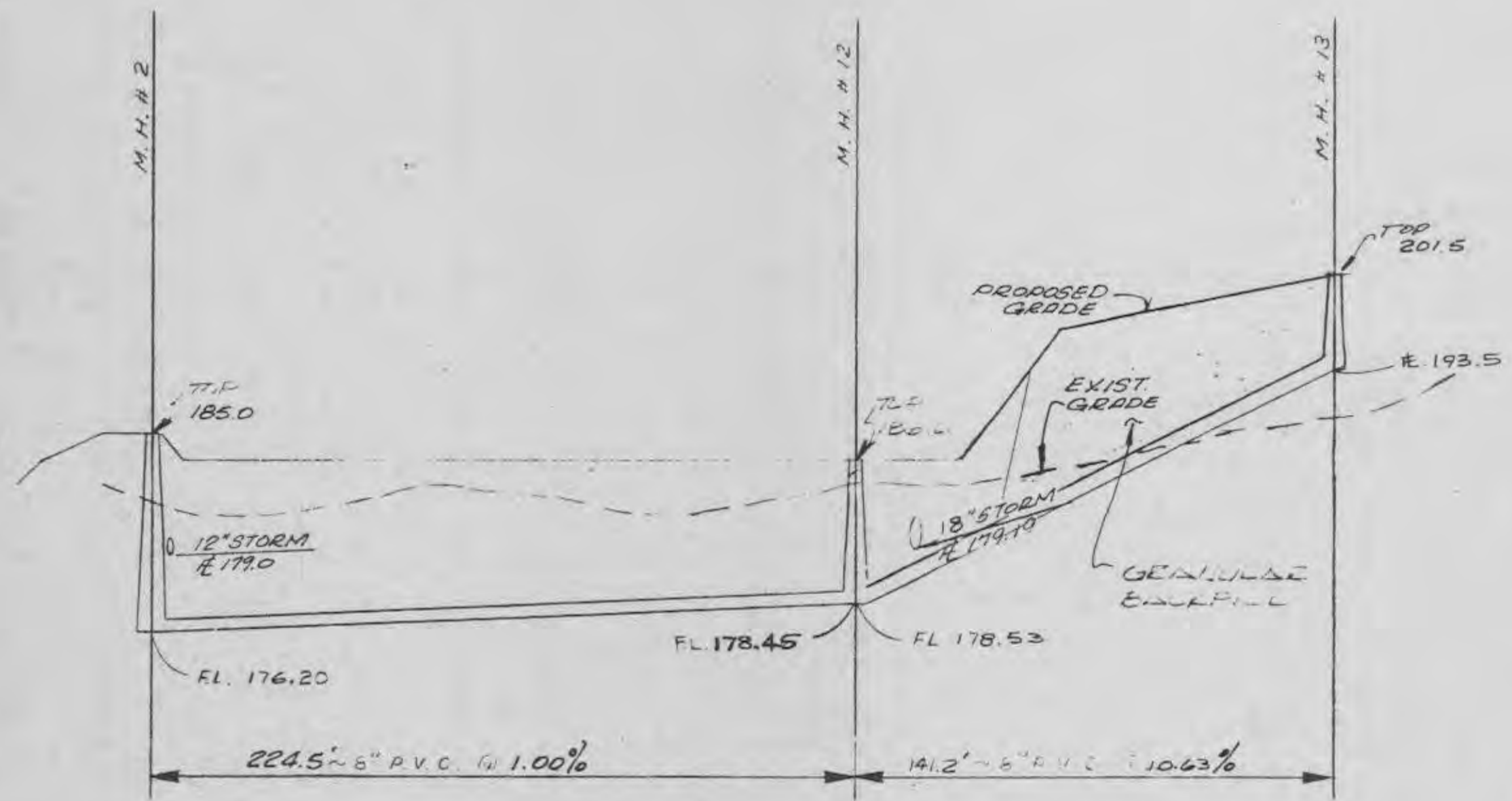


1	2-5-85	DRAWN	JOB NO.	15
2	3-8-85	TRACED	DATE	Jan 24
3	5-1-85	CHECKED	SCALE	1" = 40'
4	7-12-85	REVISED	SECTION	SECTION B
5	7-16-85	REVISED	SPILLWAY DETAIL & PROFILE	
6	8-14-85	REVISED	LINE W-2-A2	

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WESTCHESTER
 APARTMENT VILAGE
 ST. CHARLES, MISSOURI
 DEVELOPED BY THE WEST 83 PARTNERSHIP

SEWER PROJECT RECORD DRAWING
 DRAWING NO. 1302-1



NOTES:
1. 8" PVC TO BE SDR 35.

PROFILES 18-18D	5-1-85
STRUCT. #1 & FLOWLINES	8
M.H. #4	7
NEEDS GRANULAR FILL	8

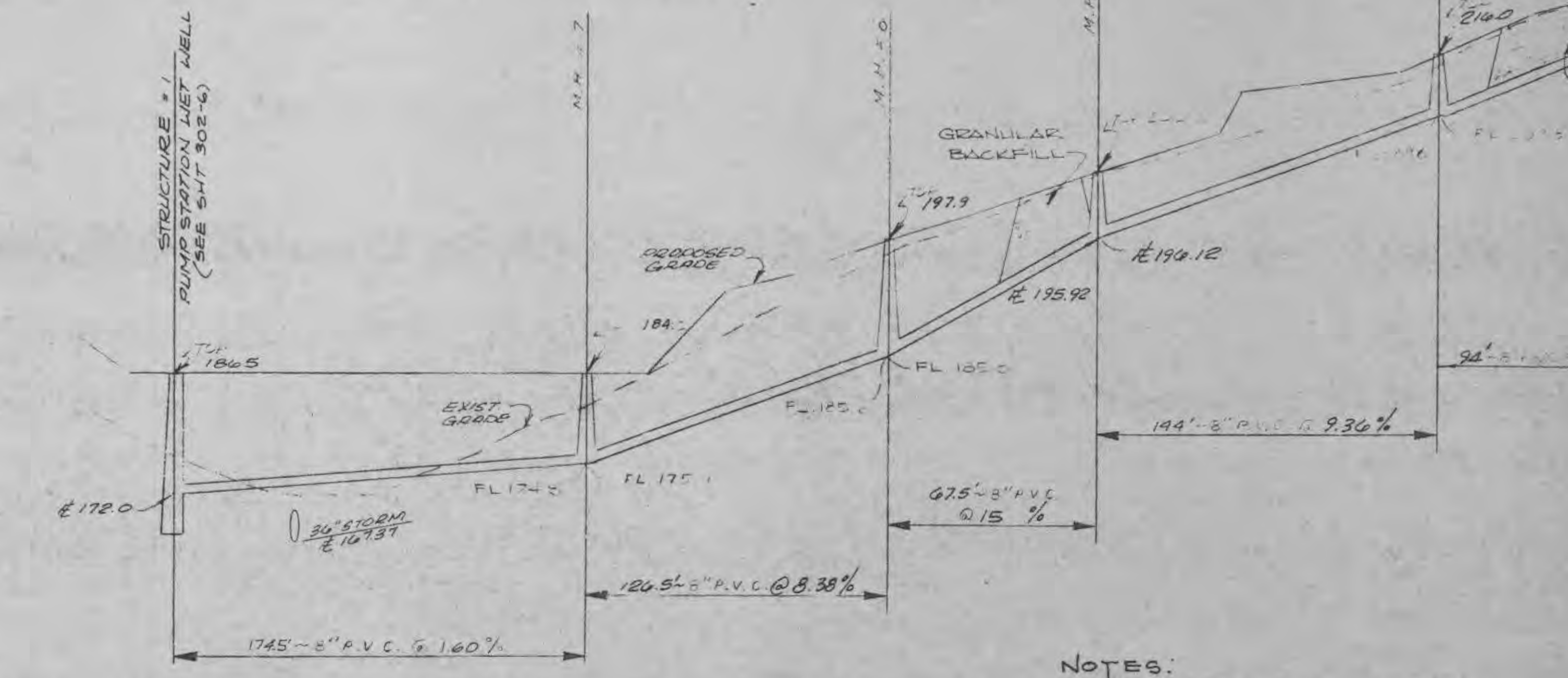
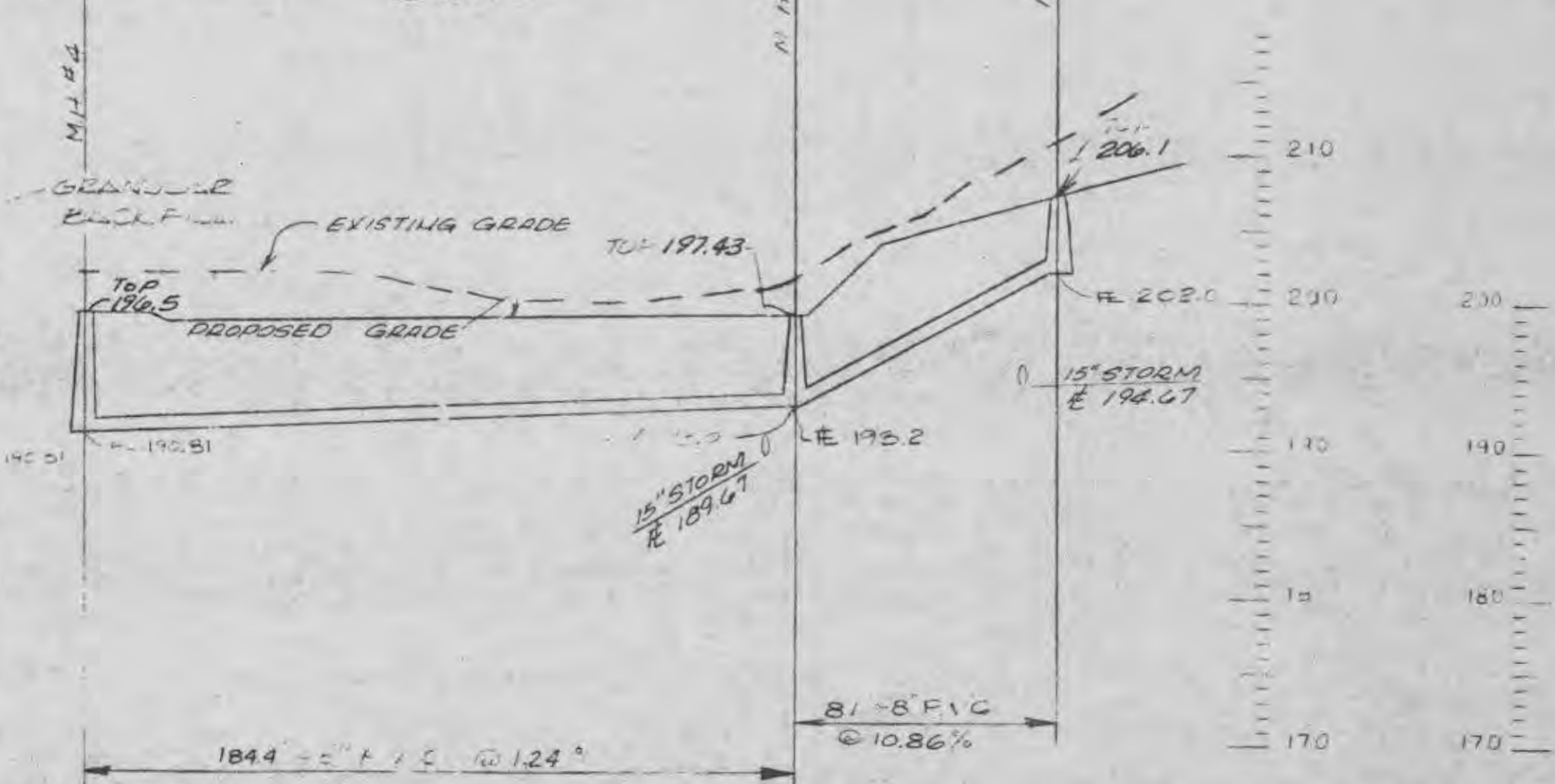
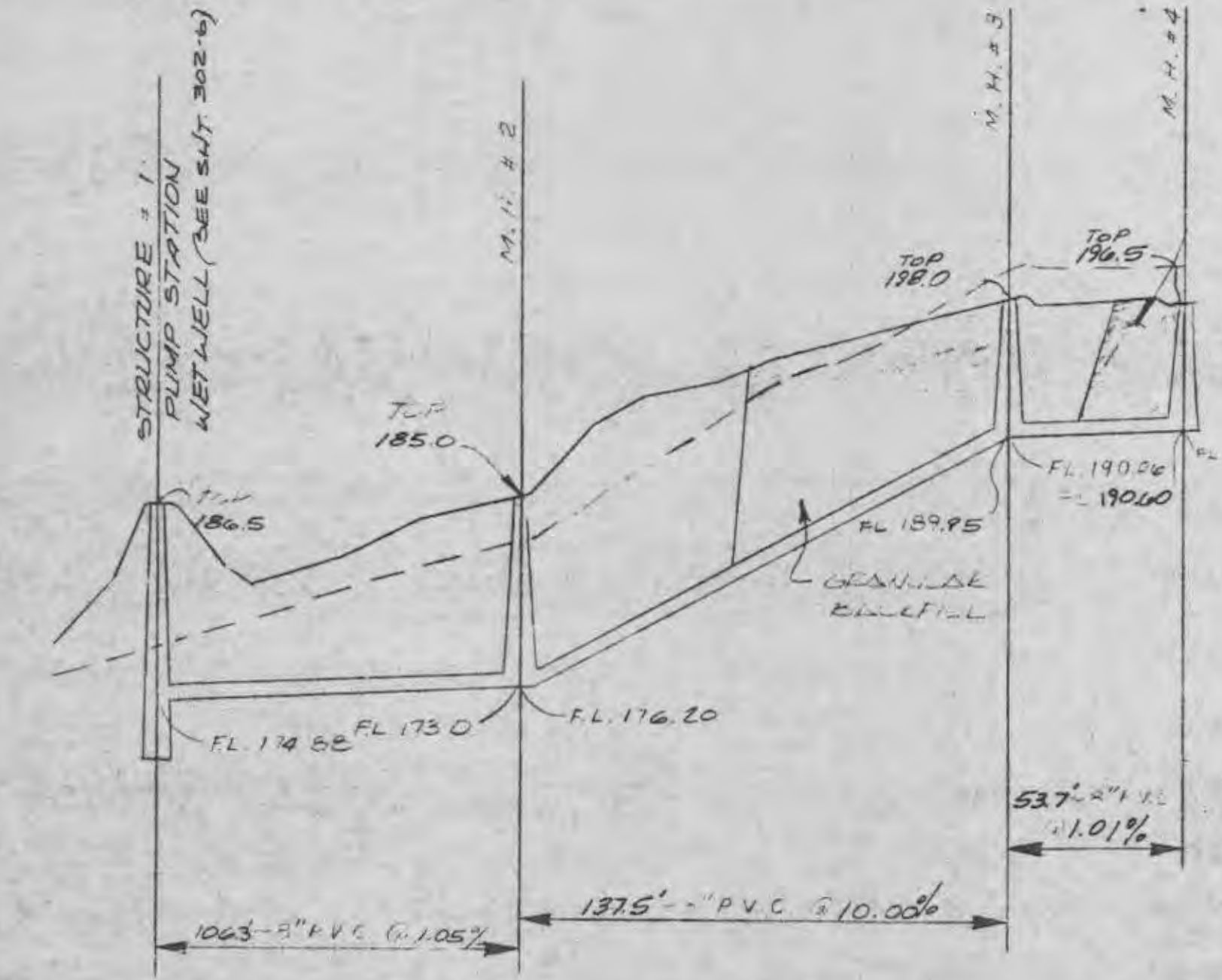
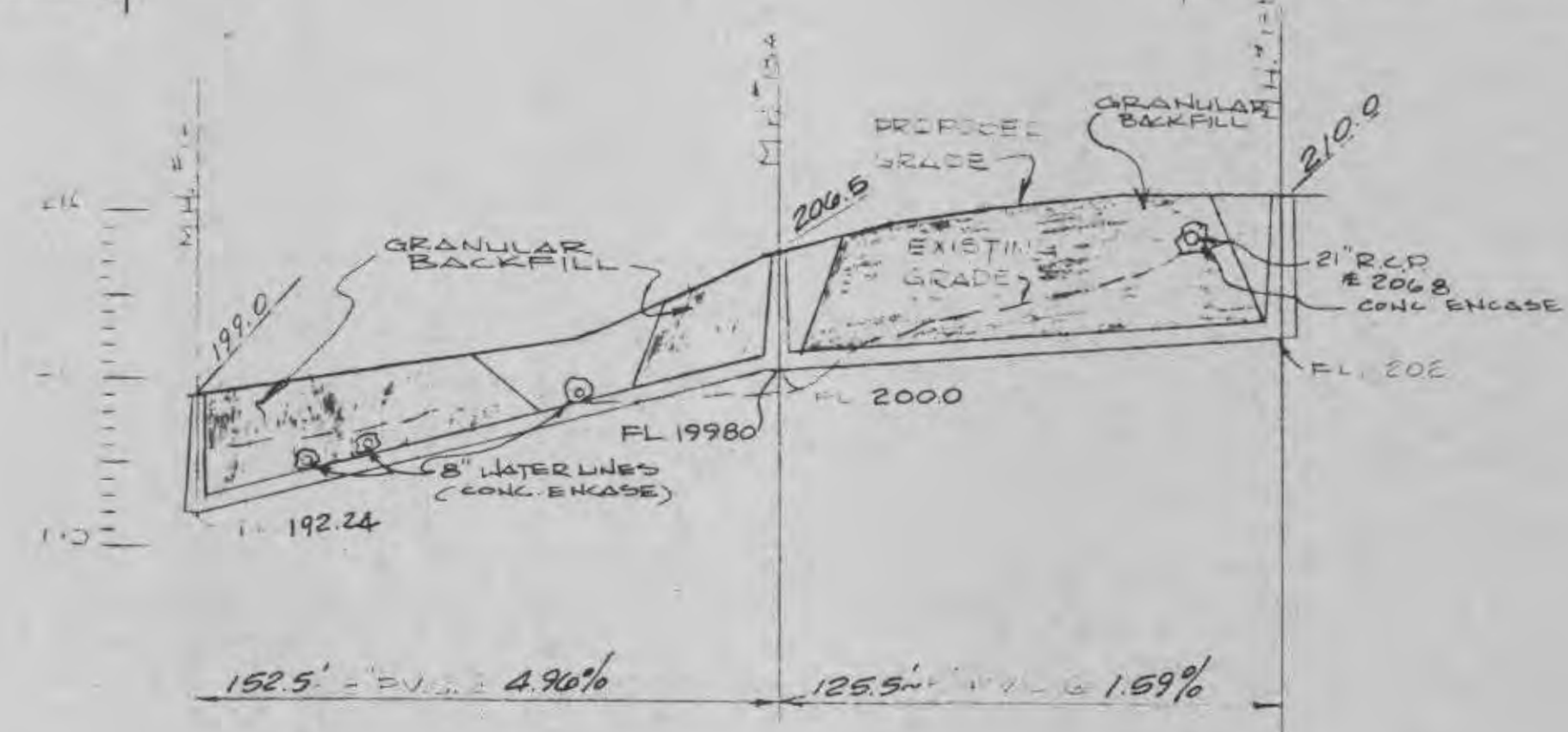
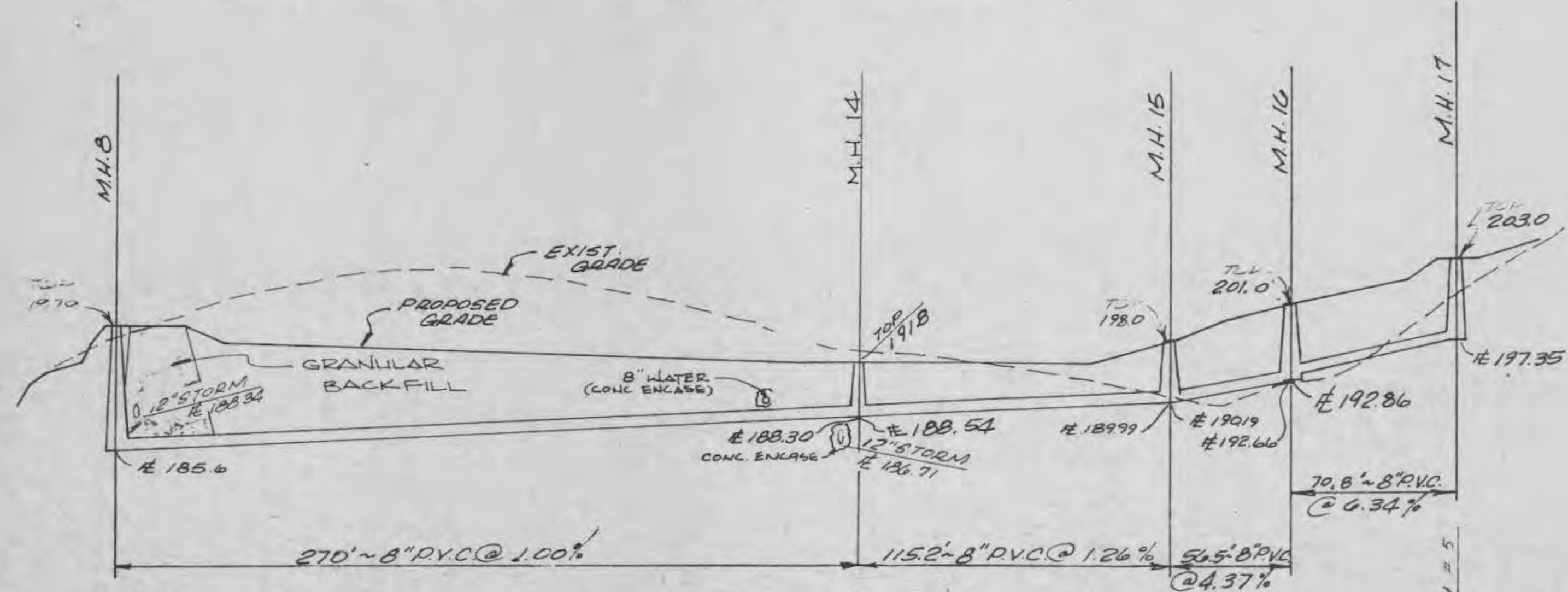
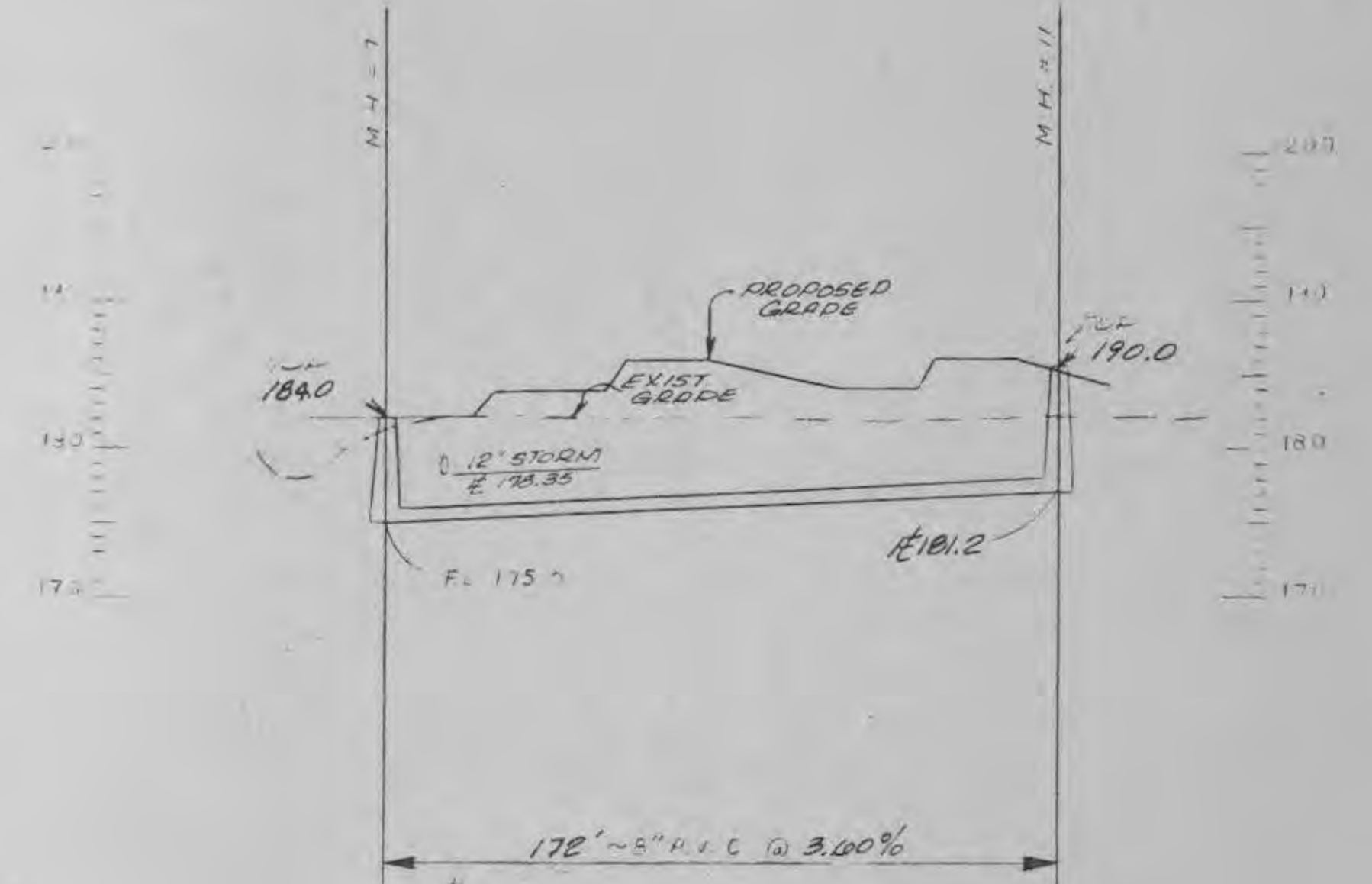
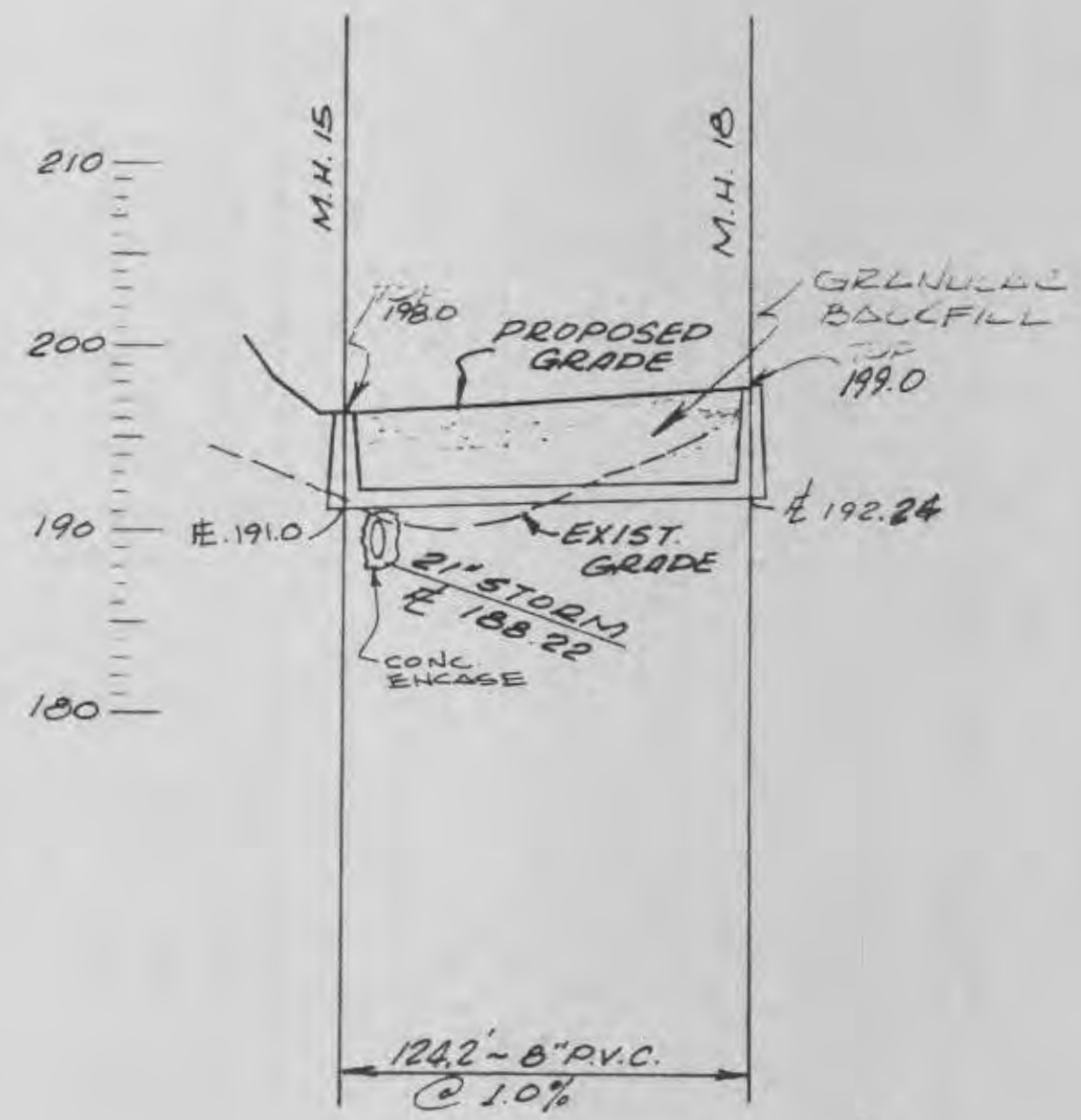
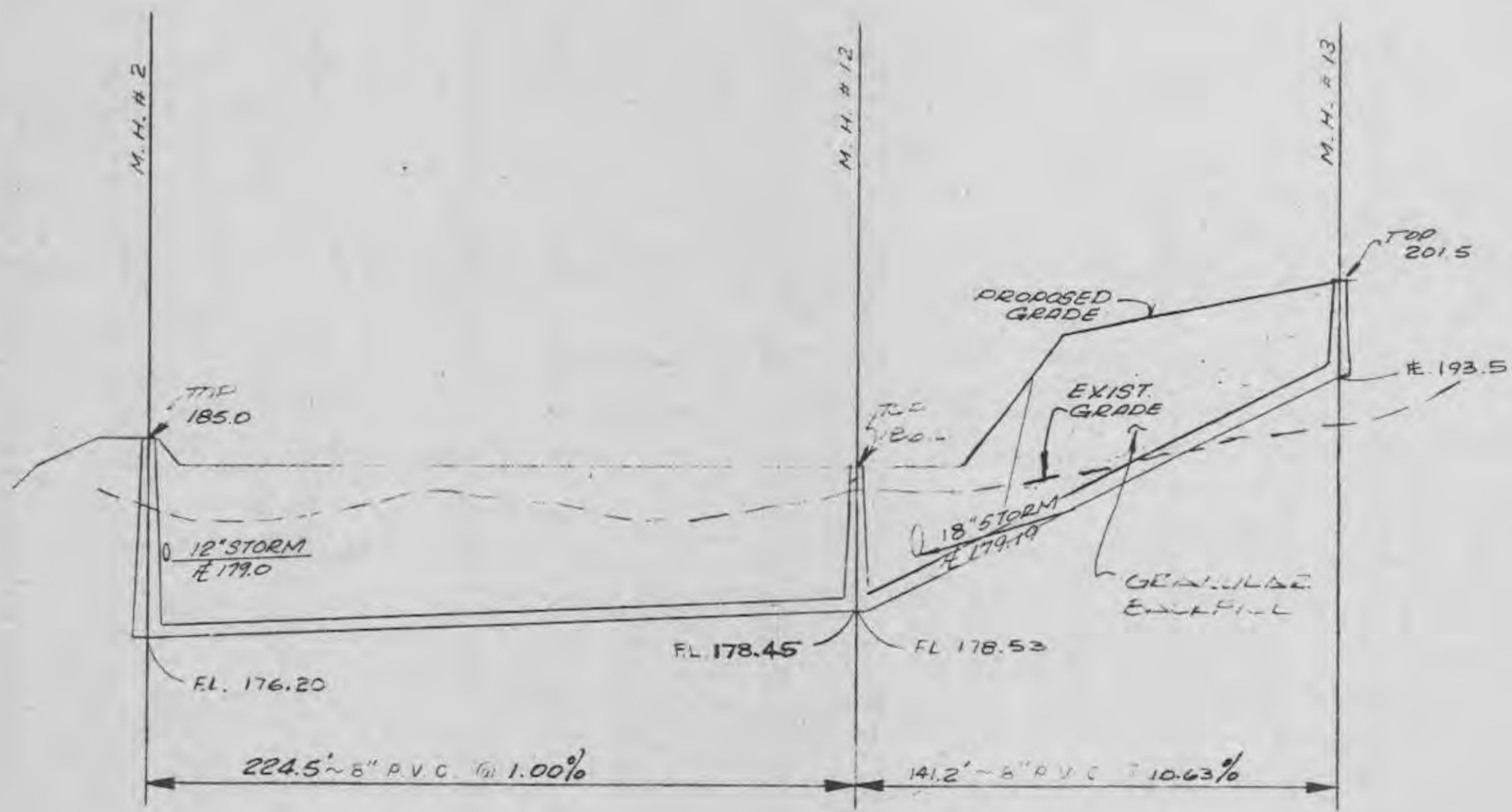
DRAWN	JOB NO.
XT	2940
TRACED	DATE
	1-17-84
CHECKED	SCALE
	VERT. 1"=10'
	HORIZ. 1"=40'

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WESTCHESTER
APARTMENT VILLAGE
O'Fallon, Mo. VII
DEVELOPED BY THE PARTNERSHIP

SEWER PROJECT
RECORD DRAWING
DRAWING NO. 130



NOTES:
1. 8" P.V.C. TO BE SDR 35.

DESIGN PROFILES 18-1810	5	5-1-85
STRUCT. #1 FLOWLINES	8	
STRUCT. #2	7	
EXPOSED GRANULAR FILL	8	

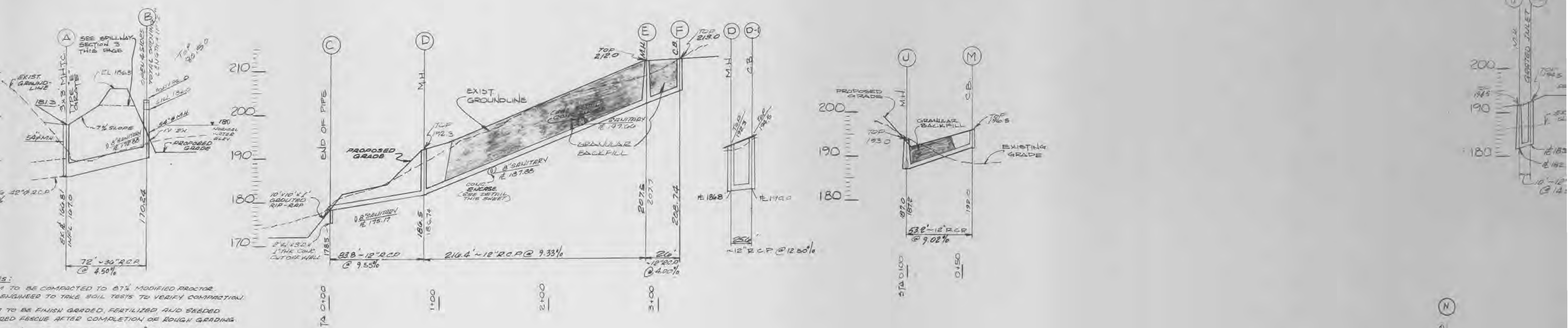
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XT	2940
TRACED	DATE
	1-17-84
CHECKED	SCALE
	VERT. 1"=10'
	HORIZ. 1"=40'

IKW / WARDLAW ASSOCIATES
 ARCHITECTS · ENGINEERS · PLANNERS
 8 WESTBURY DR. ST. CHARLES, MISSOURI

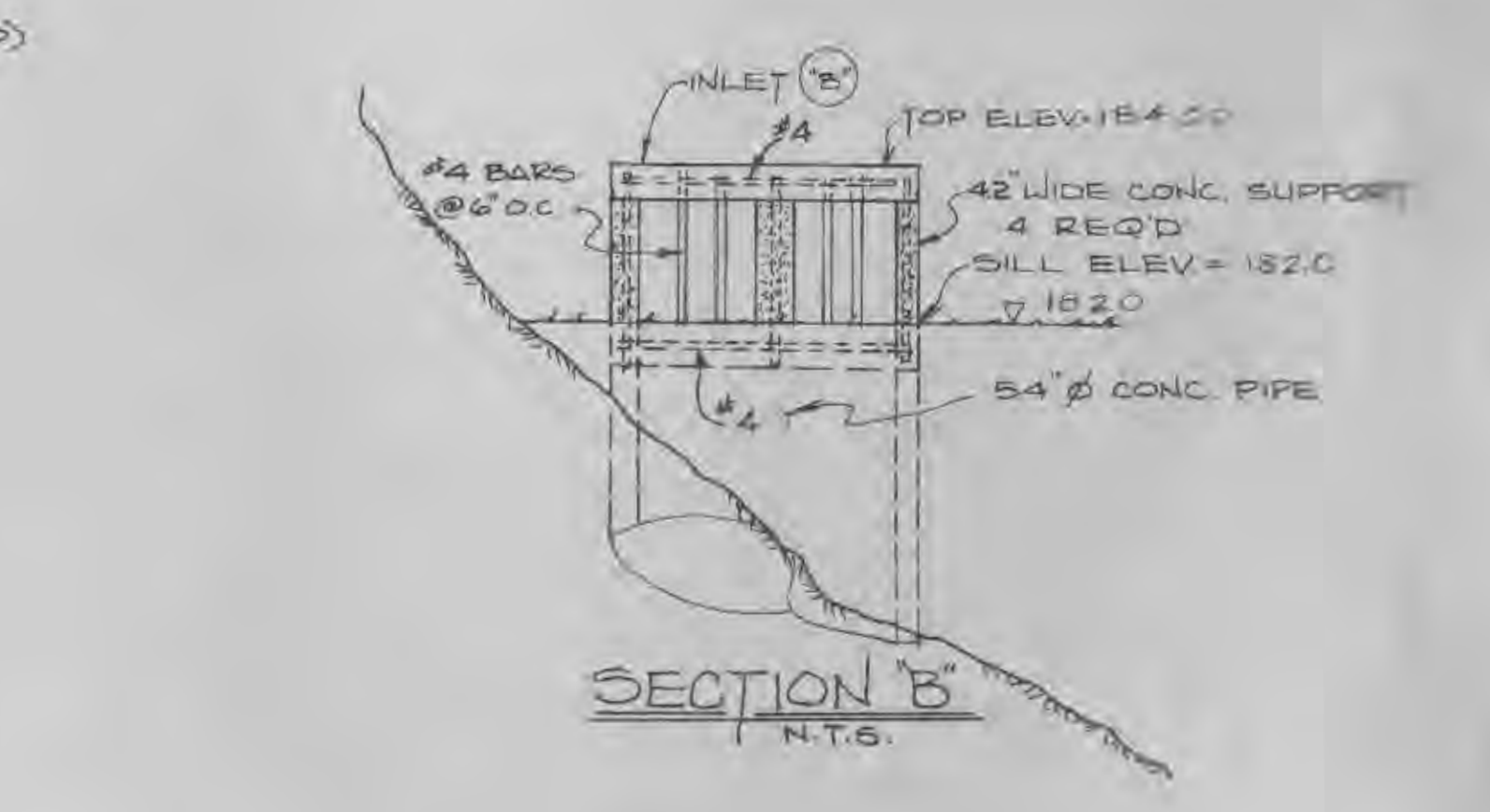
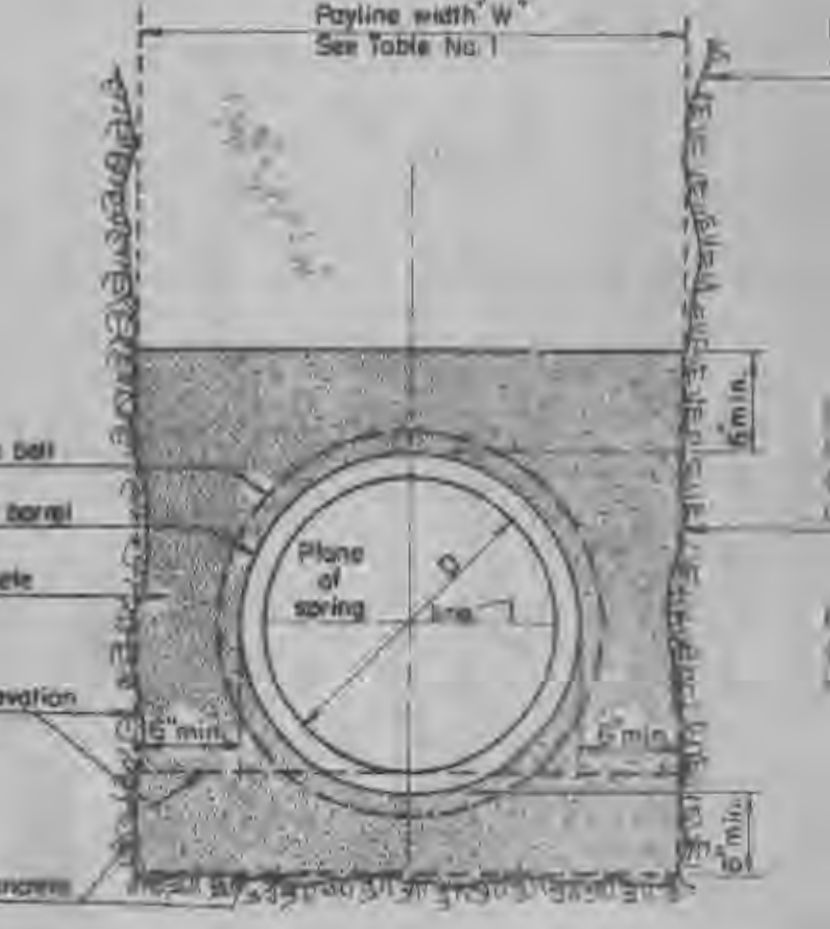
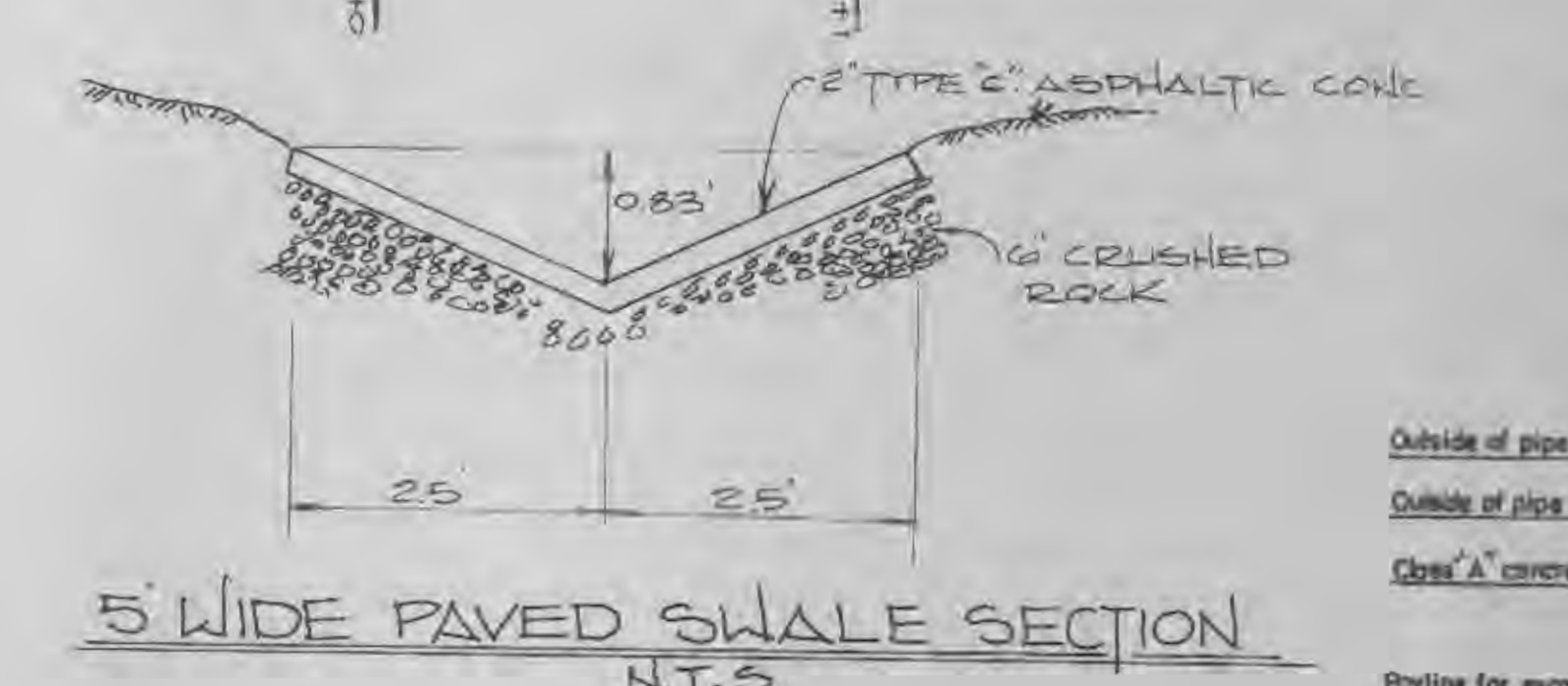
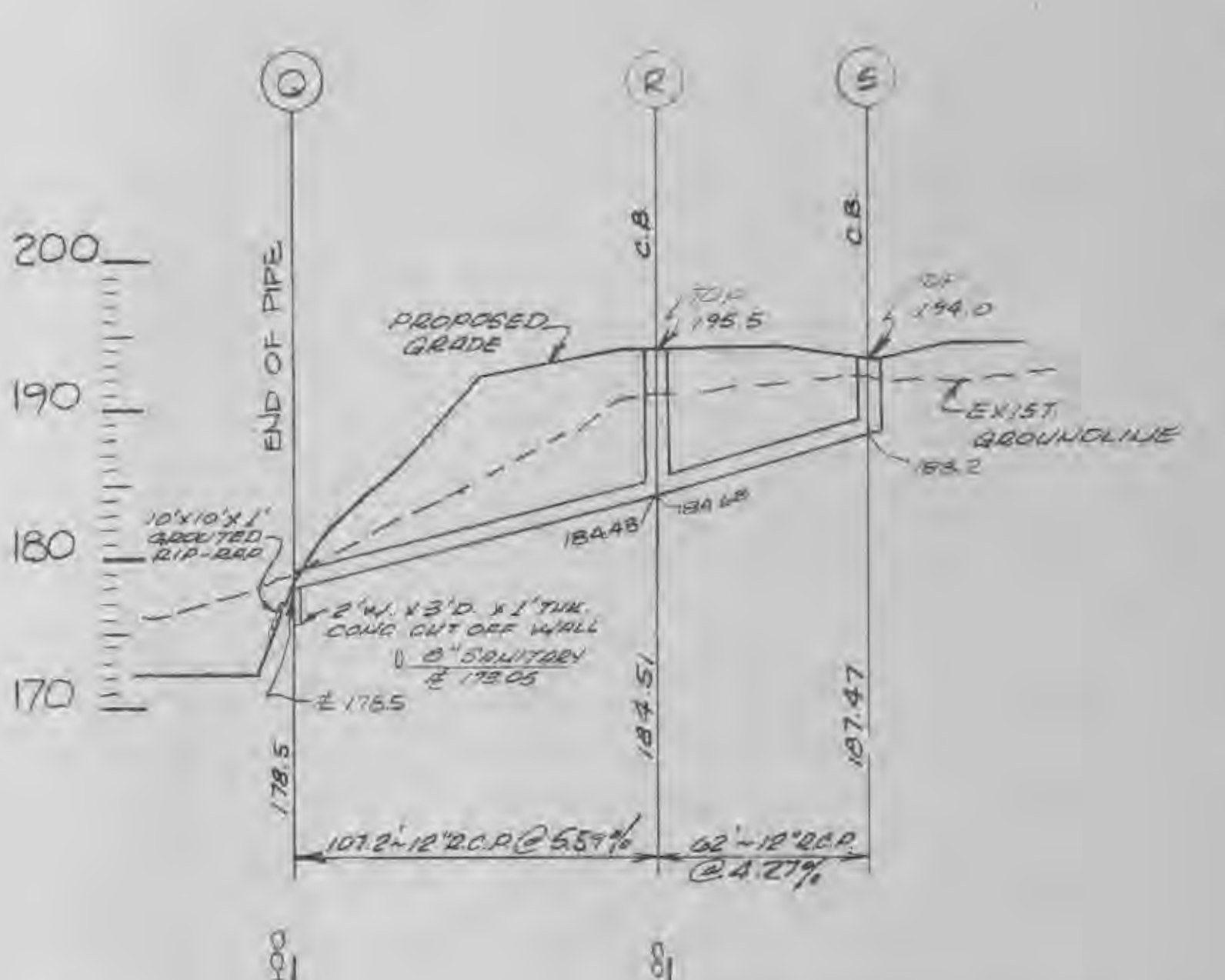
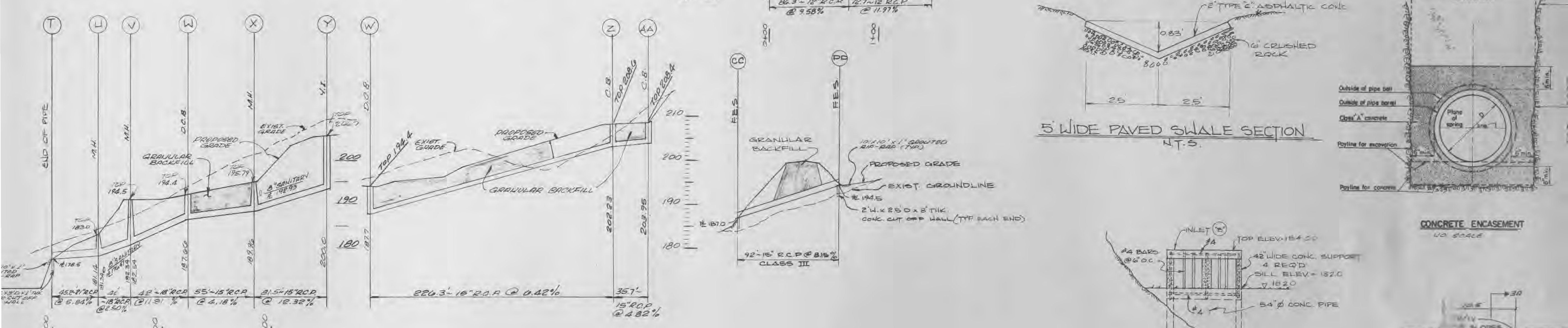
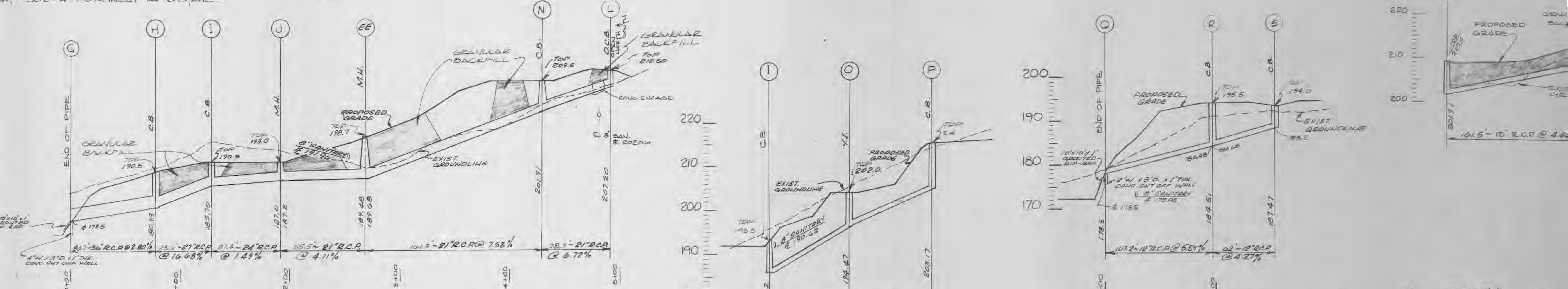


WESTCHESTER
 APARTMENT VILLAGE
 O'Fallon, Mo. 63058
 DEVELOPED BY THE PARTNERSHIP

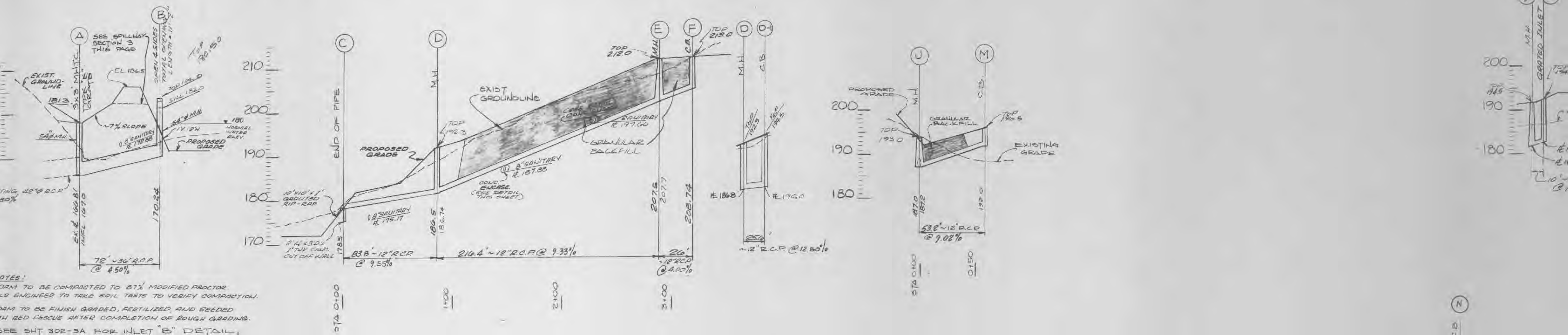
SEWER PROJECT
RECORD DRAWING
 DRAWING NO. 30



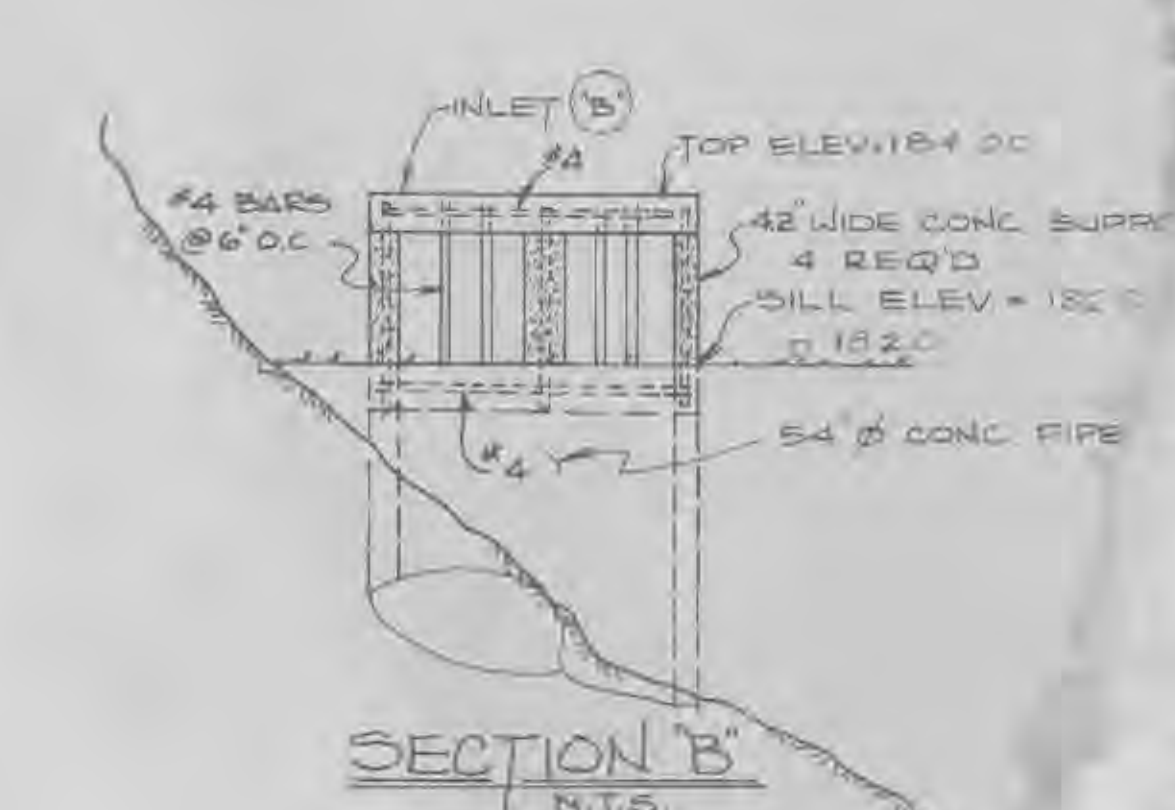
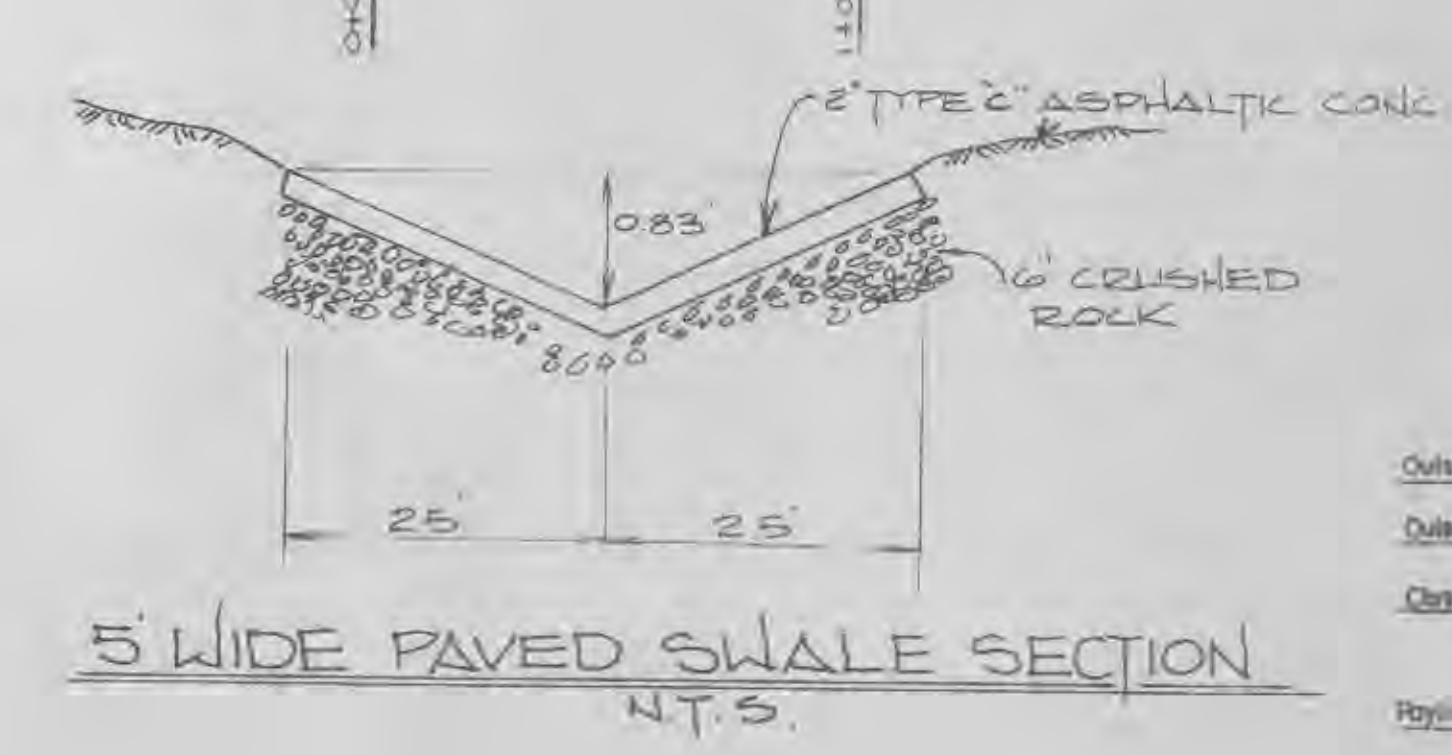
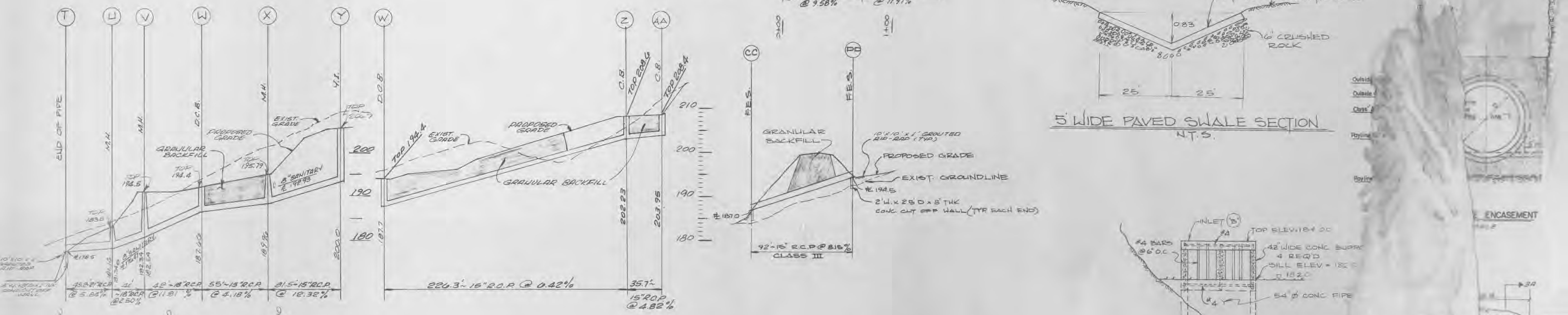
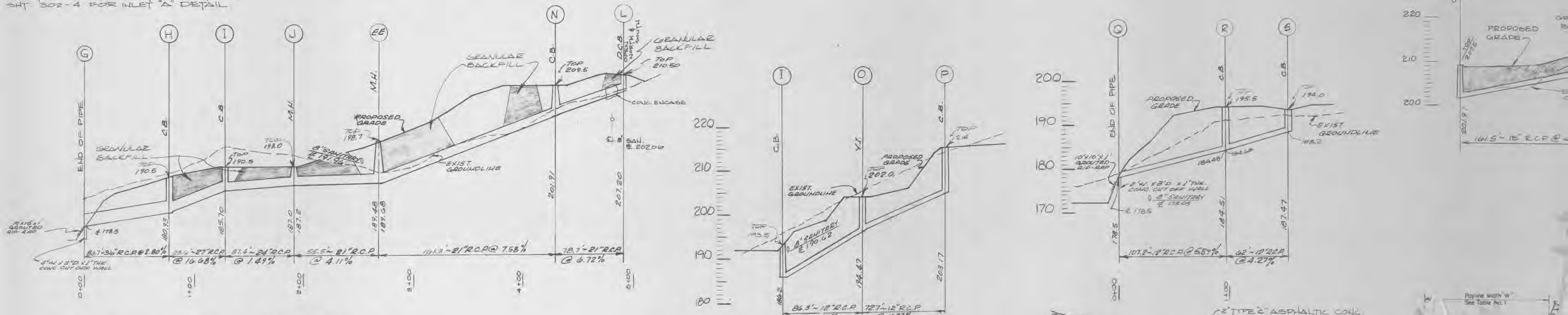
TO BE COMPACTED TO 87% MODIFIED PROCTOR.
ENGINEER TO TAKE SOIL TESTS TO VERIFY COMPACTON.
TO BE FINISH GRADED, FERTILIZED AND SEEDED
AND RESUE AFTER COMPLETION OF ROUGH GRADING.
SEE SHEET 302-3A FOR INLET 'B' DETAIL.
SEE SHEET 302-4 FOR INLET 'A' DETAIL.

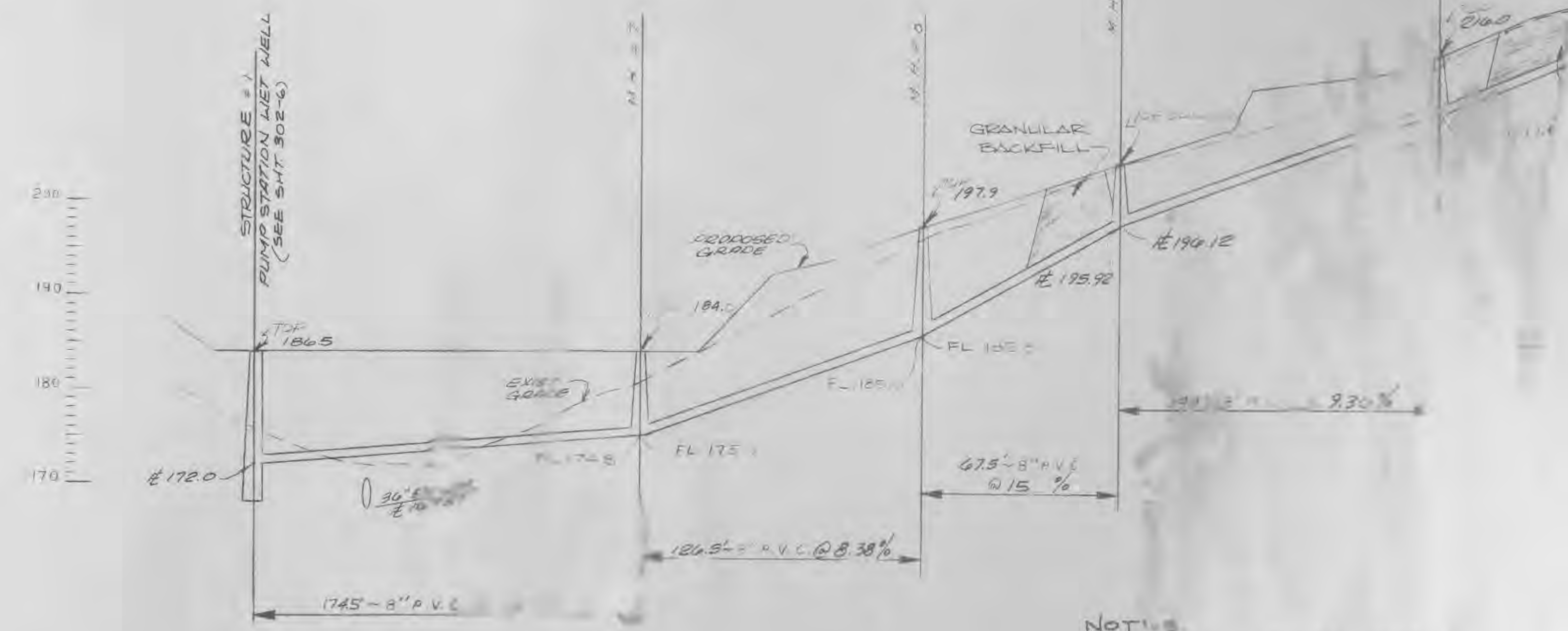
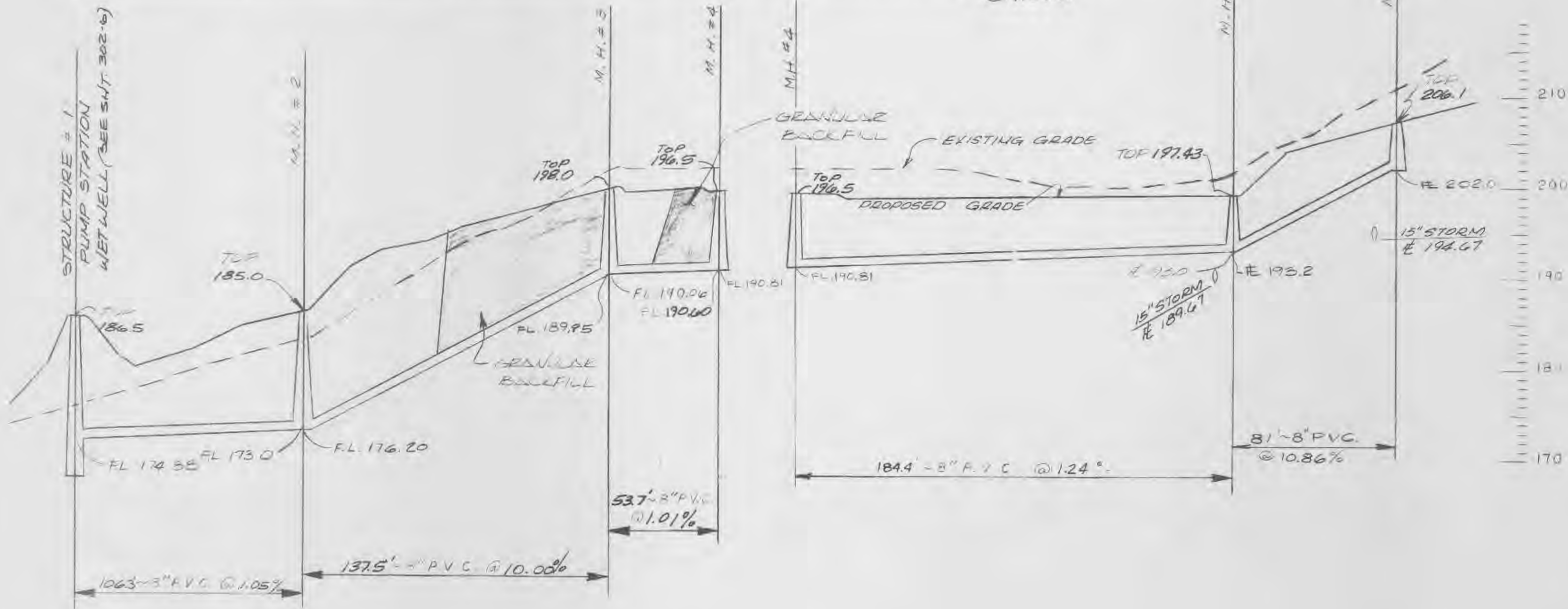
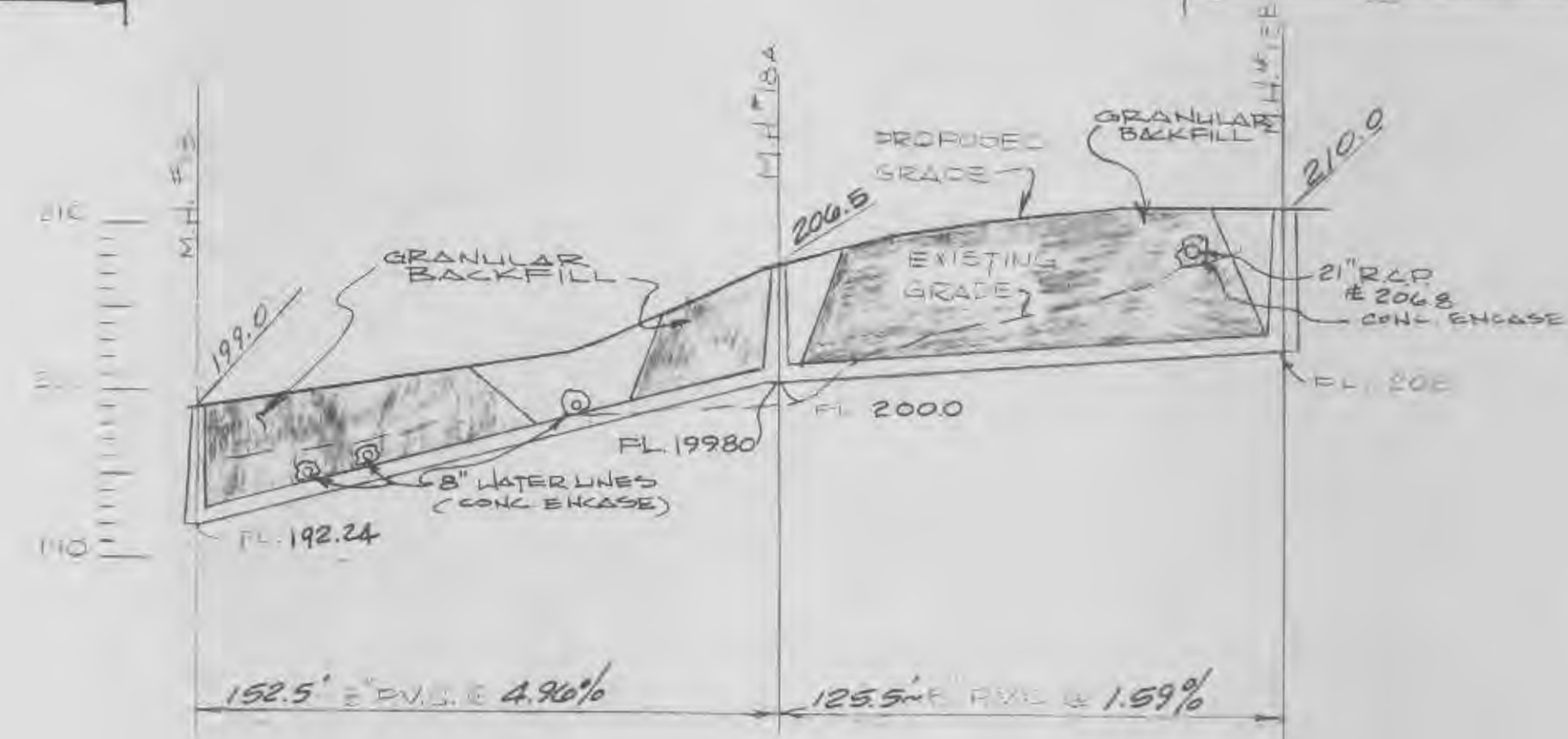
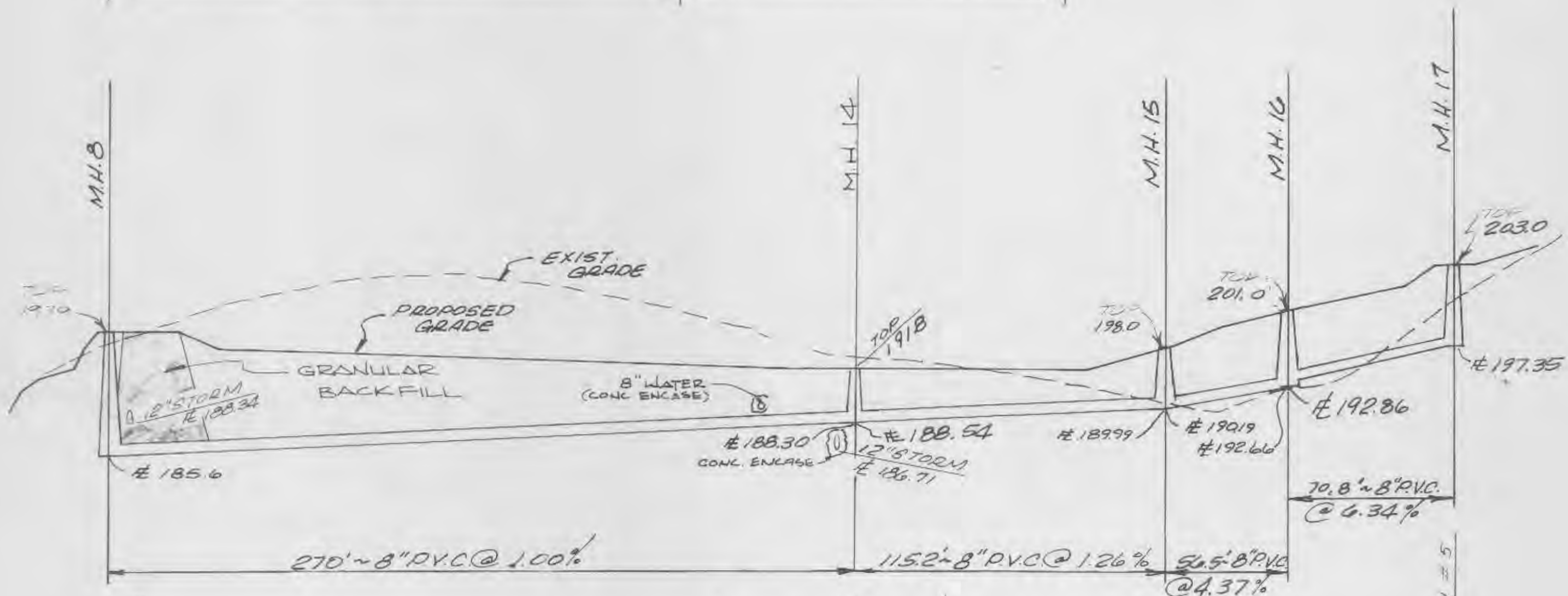
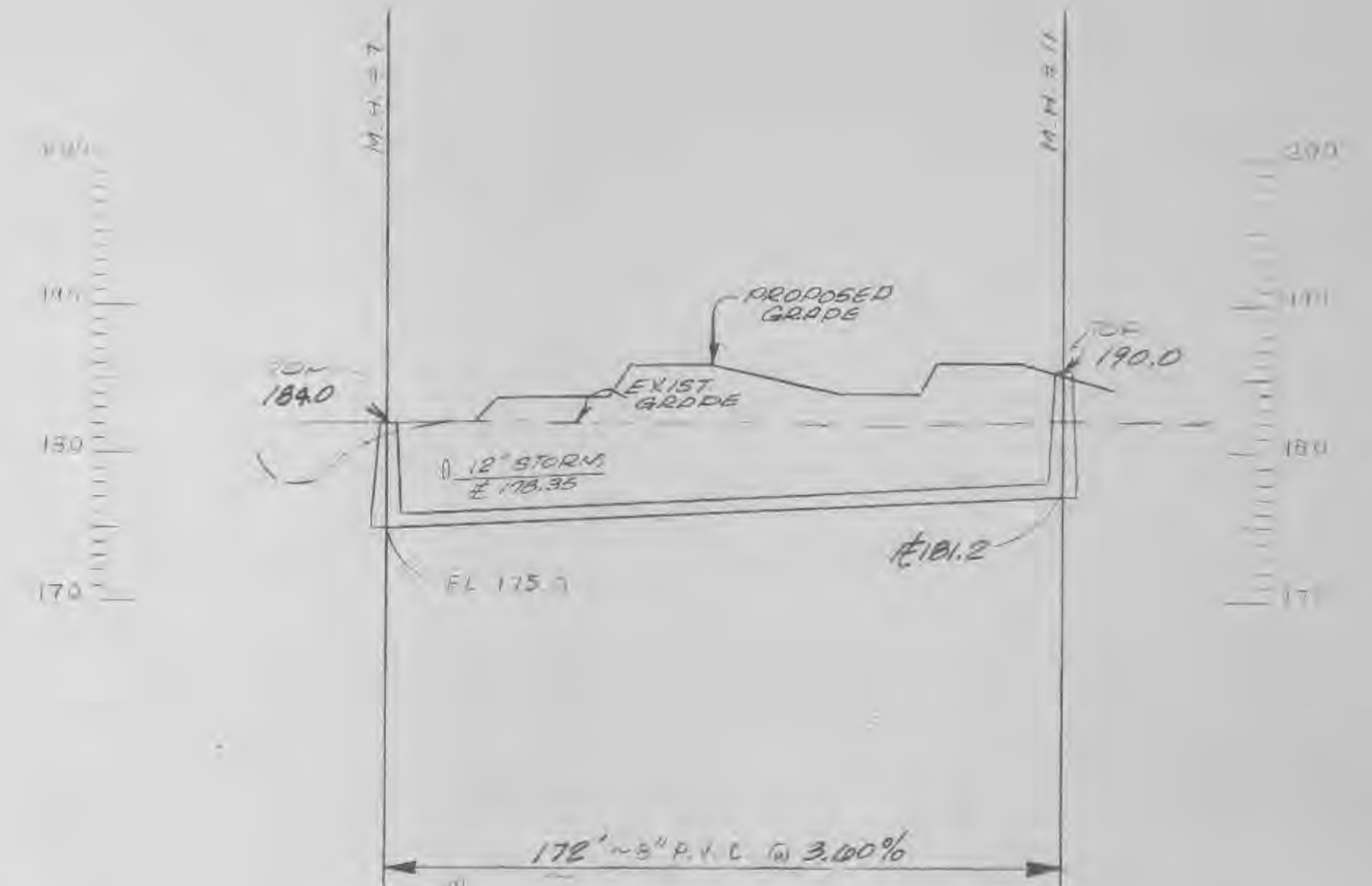
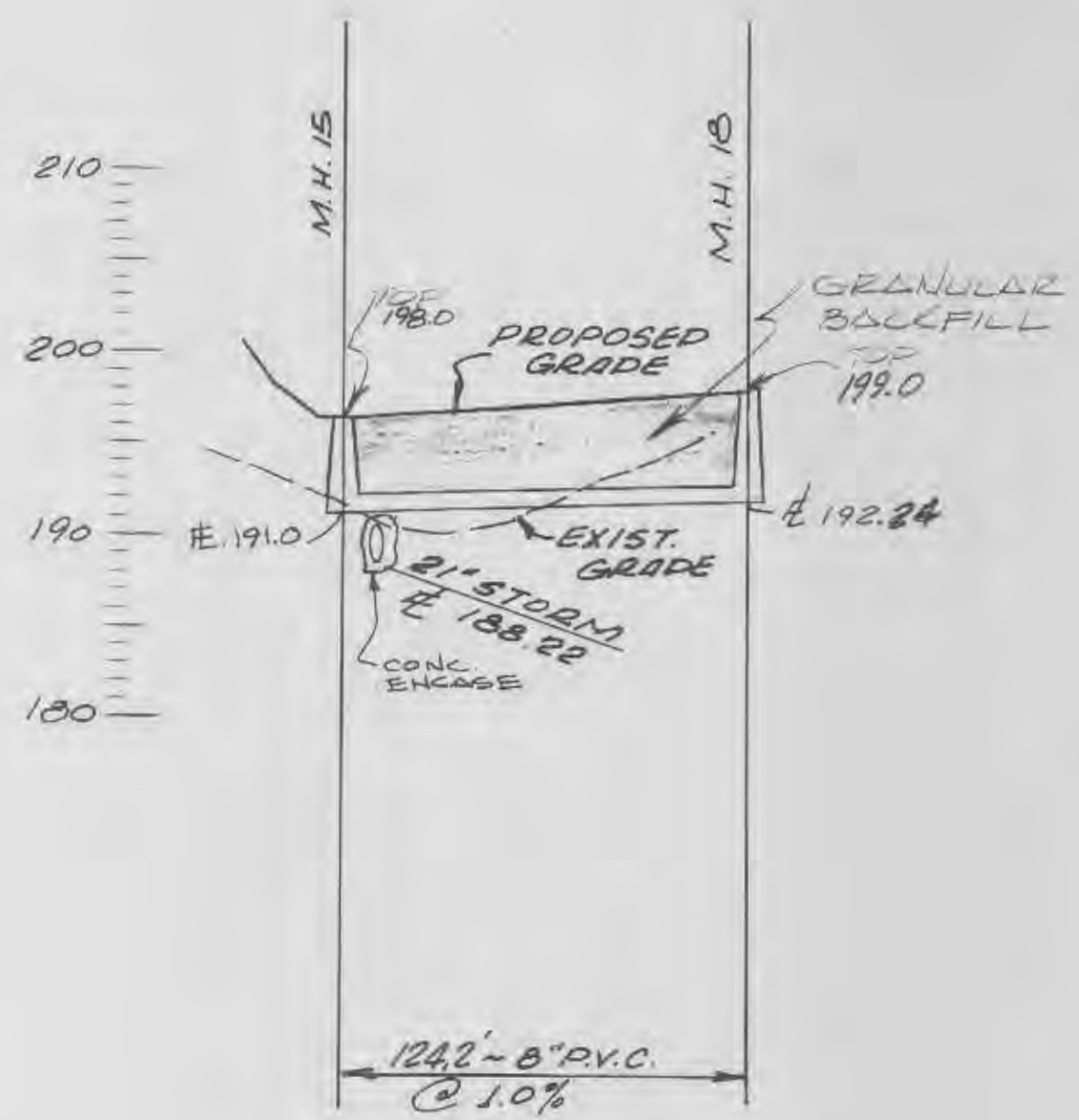
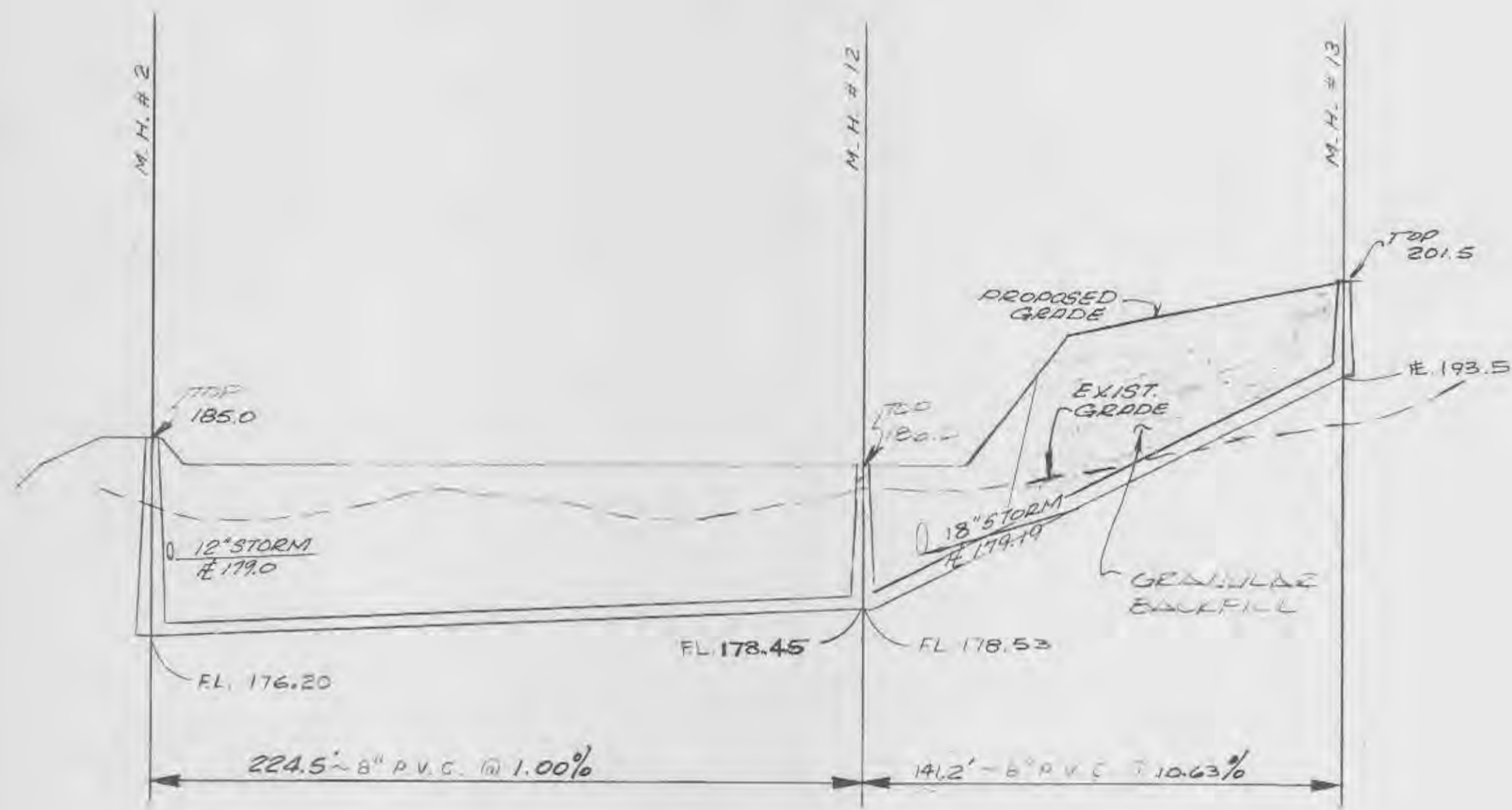


1. 5' GRANULAR FILL BETWEEN PIPES 12" MIN. 18" MAX. FLANGE DETAIL SEE SHEET 302-4 FOR DETAIL 2. SEE SHEET 302-4 FOR DETAIL 3. SEE SHEET 302-4 FOR DETAIL 4. SEE SHEET 302-4 FOR DETAIL 5. SEE SHEET 302-4 FOR DETAIL 6. SEE SHEET 302-4 FOR DETAIL 7. SEE SHEET 302-4 FOR DETAIL 8. SEE SHEET 302-4 FOR DETAIL 9. SEE SHEET 302-4 FOR DETAIL 10. SEE SHEET 302-4 FOR DETAIL	1. 2-5-85 2. 3-5-85 3. 5-1-85 4. THESE 5. 11-85 6. 11-85 7. 11-85 8. 11-85 9. 11-85 10. 11-85	DRAWN JOB NO. IS 5314 TRACED DATE Jan 84 CHECKED SCALE Baw 4" = 1'-0"	IKW / WARDLAW ASSOCIATES ARCHITECTS · ENGINEERS · PLANNERS 6 WESTBURY DR. ST. CHARLES MISSOURI	WESTCHESTER APARTMENT VILLAGE O'Fallon, Missouri DEVELOPED BY THE WESTCHESTER PARTNERSHIP	SEWER PRO DRAWING NO. 1302-3A
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NOTES:
 1. DAM TO BE COMPACTED TO 87% MODIFIED PROCTOR.
 2. ENGINEER TO TAKE SOIL TESTS TO VERIFY COMPACTION.
 3. DAM TO BE FINISH GRADED, FERTILIZED, AND SEEDED.
 4. WITH RED ESCUE AFTER COMPLETION OF ROUGH GRADING.
 5. SEE SH. 302-3A FOR INLET "B" DETAIL.
 6. SEE SH. 302-4 FOR INLET "A" DETAIL.





NOTES:
 1. SEE SHT 302-4

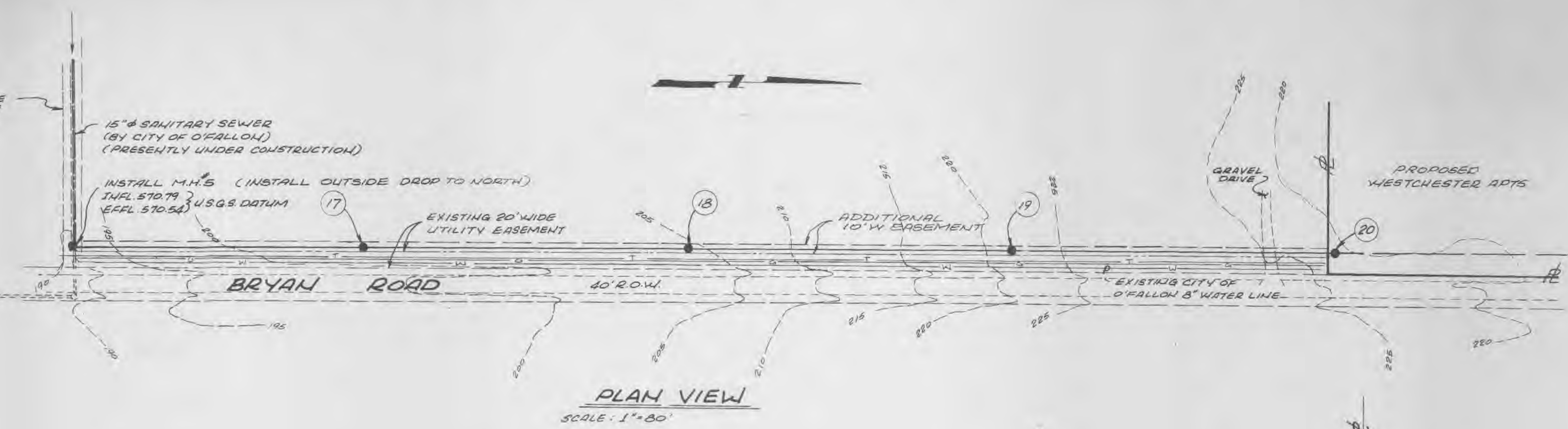
REVISED 16-185	8	5-1-85
STRUCTURE #1 & FLOWLINES	6	
	7	
	8	

DRAWN	JOB NO.
X T	2940
TRACED	DATE
	1-17-84
CHECKED	SCALE
	VERTICAL 1"=10'
	HORIZONTAL 1"=40'

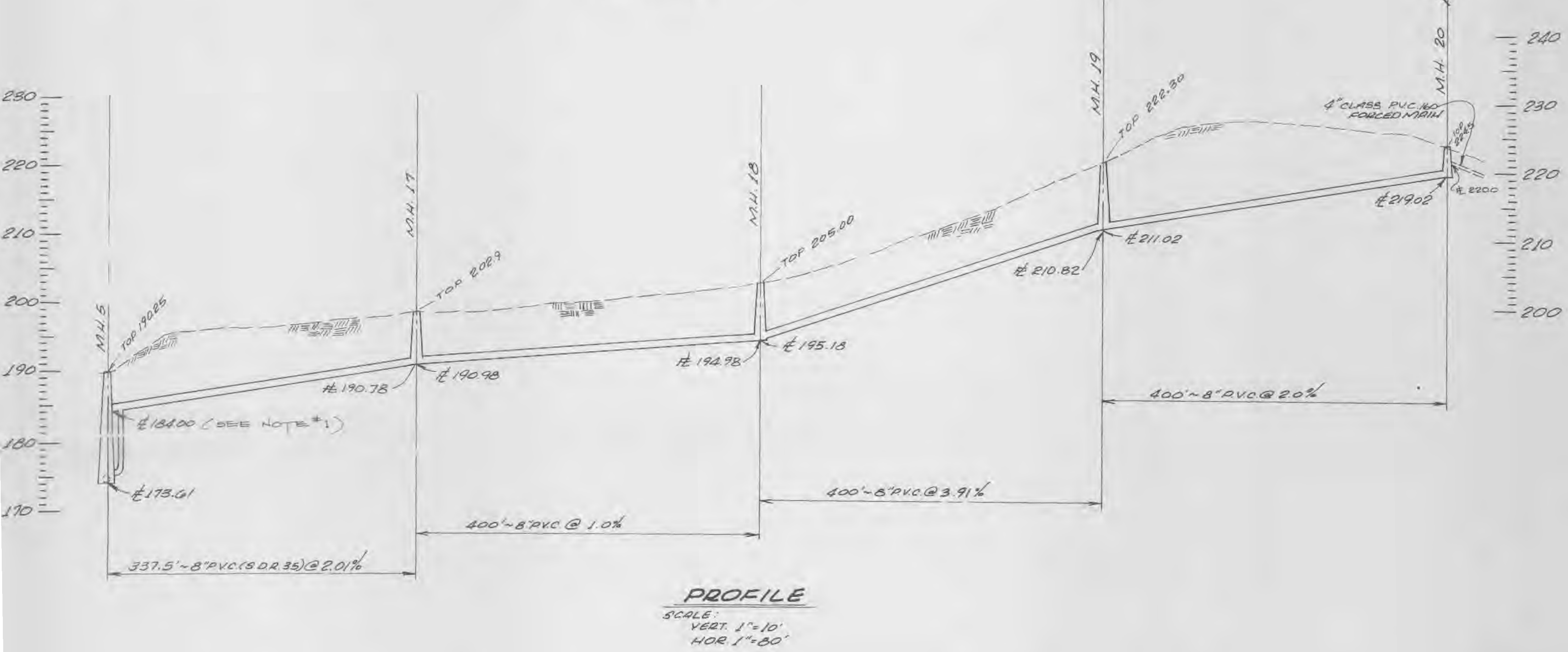


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 6 WESTBURY DR. ST. CHARLES, MISSOURI

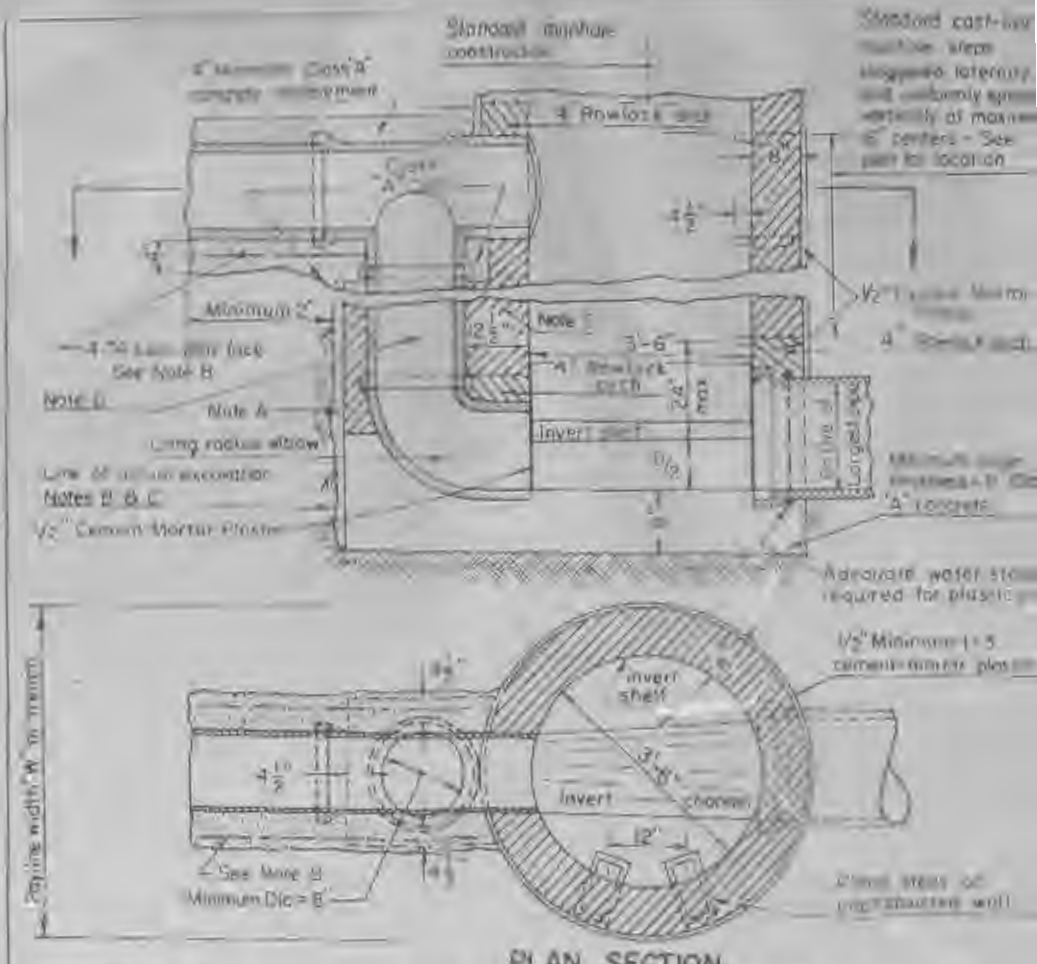
WESTCHE APARTMENT
 O'Fallon, Mo.
 DEVELOPED BY THE WESTON



PLAN VIEW
SCALE: 1"=80'



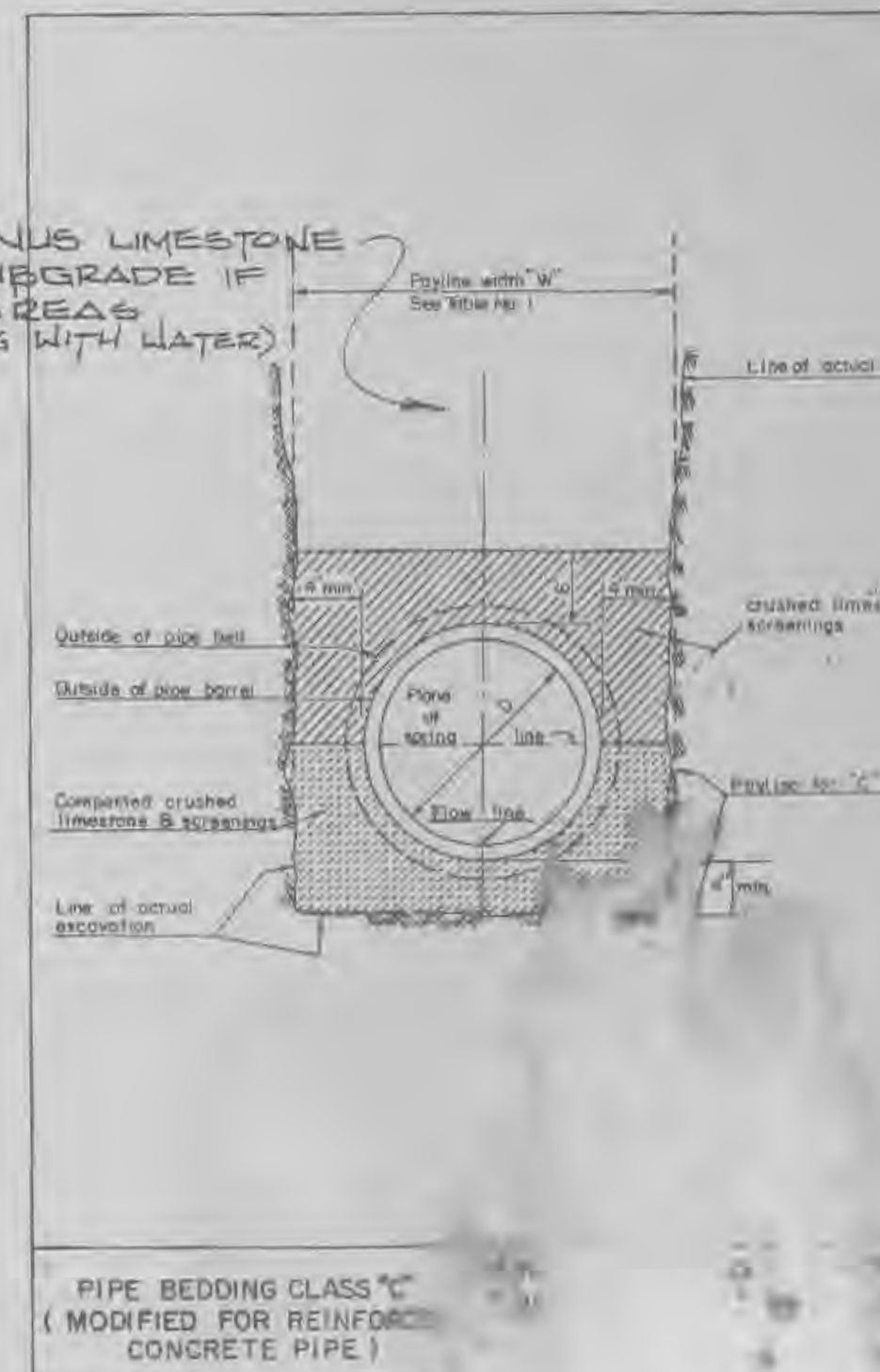
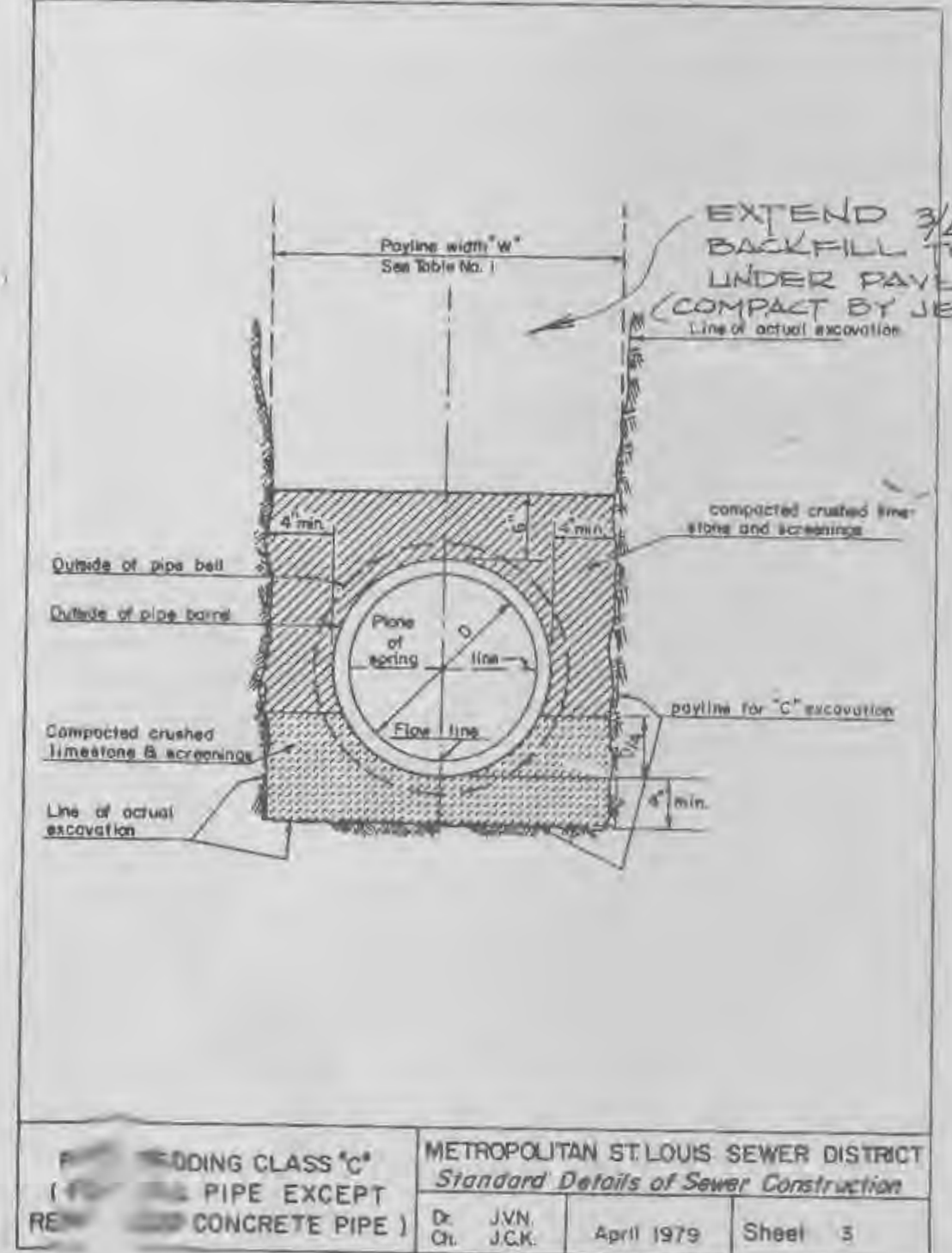
PROFILE
SCALE: VERT. 1"=10'
HOR. 1"=80'



PLAN SECTION
Note: If any of actual excavation extends beyond line of drop manhole, fill excavated space with concrete material of drop or pipe with one layer Class 'A' concrete to base of Class 'A' concrete enclosure.
Note: If manhole is located outside of drop pipe manhole, extend 1 foot outside sewer pipe enclosure with a minimum of 3 No. 4 bars for length of enclosure.
Note: Heavy encasement of drop pipe shall be bonded and placed integrally with manhole masonry.
Note: Diameter of drop pipe for combined sewers and sanitary sewers is 8" or 10" depending on project plans for sanitary sewers 12" or larger. Combined sewers unless otherwise shown on project plans for sanitary sewers 12" or larger. 12" drop is to be used; connect to manhole at or within 5' above the building.
Note: New manhole drop pipe existing manhole 12" or larger. 12" drop is to be used; connect to manhole at or within 5' above the building.
Note: For inside drop, pipes A & B shall apply.

DROP MANHOLE ON COMBINED, STORM OR SANITARY SEWERS	Dr. J.S.-J.F.	April 1979	Sheet 5
	Dr. J.K.		

NOTE
CITY OF O'FALLON DOES NOT PERMIT ANY MASONRY CONSTRUCTION OF MANHOLES OR OUTSIDE DROPS. ALL OUTSIDE PIPE SUPPORT SHALL BE FORMED CLASS 'A' CONCRETE.



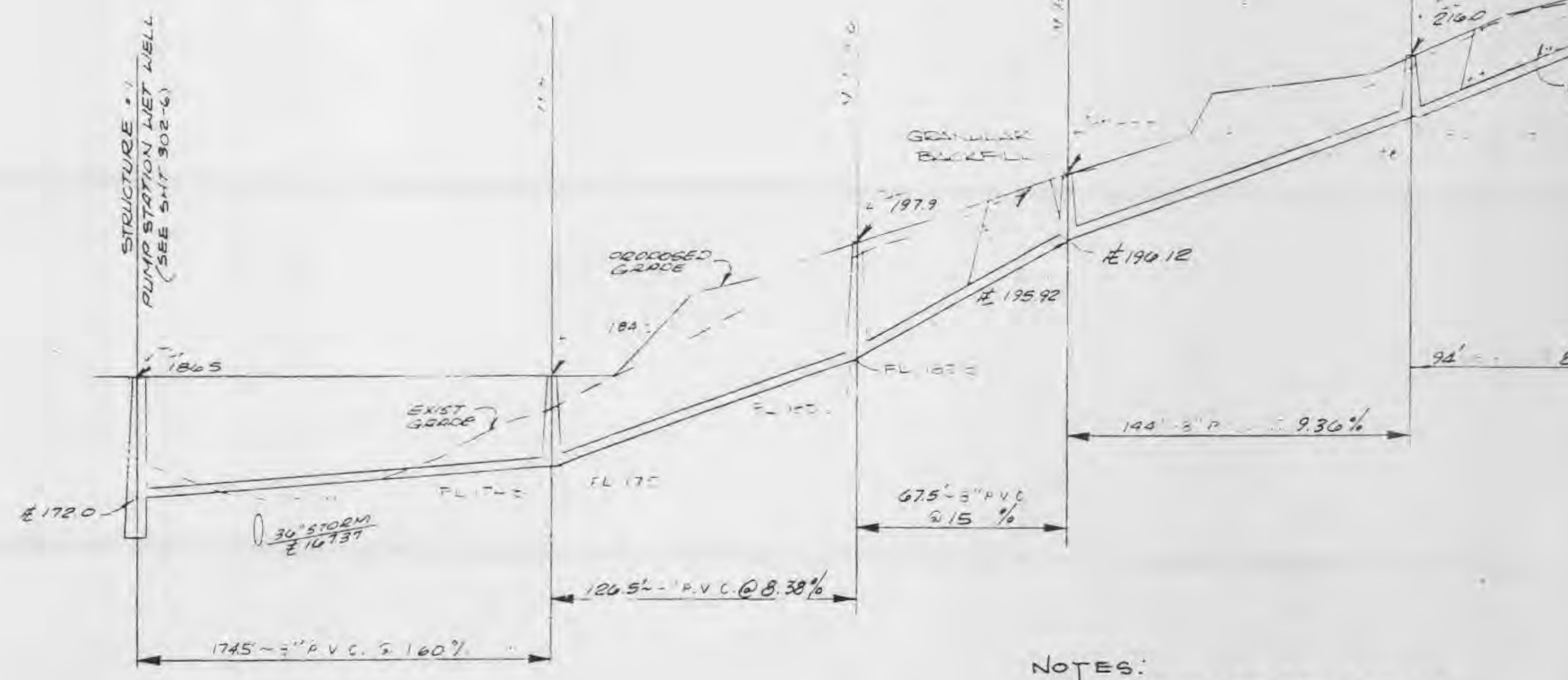
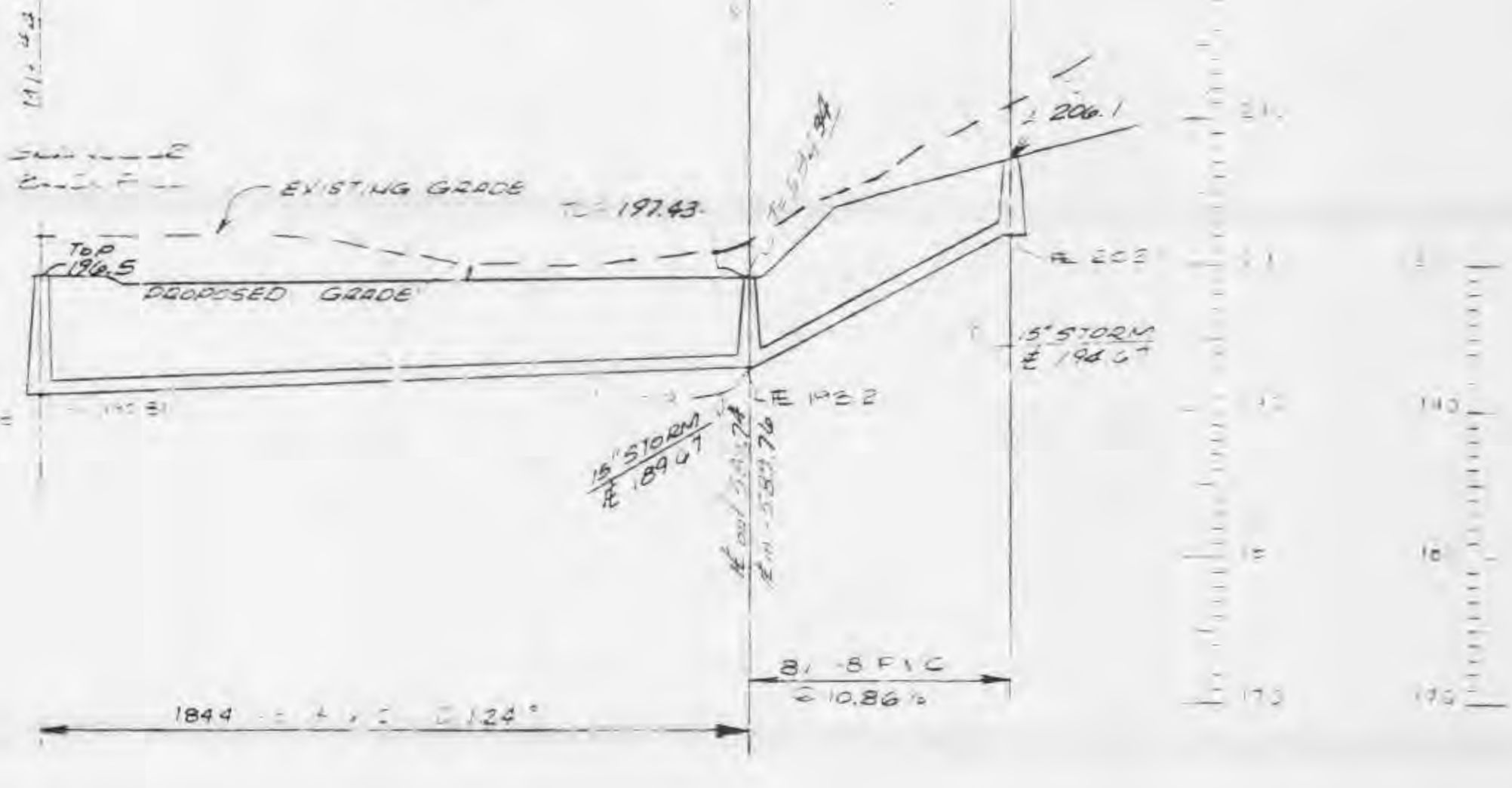
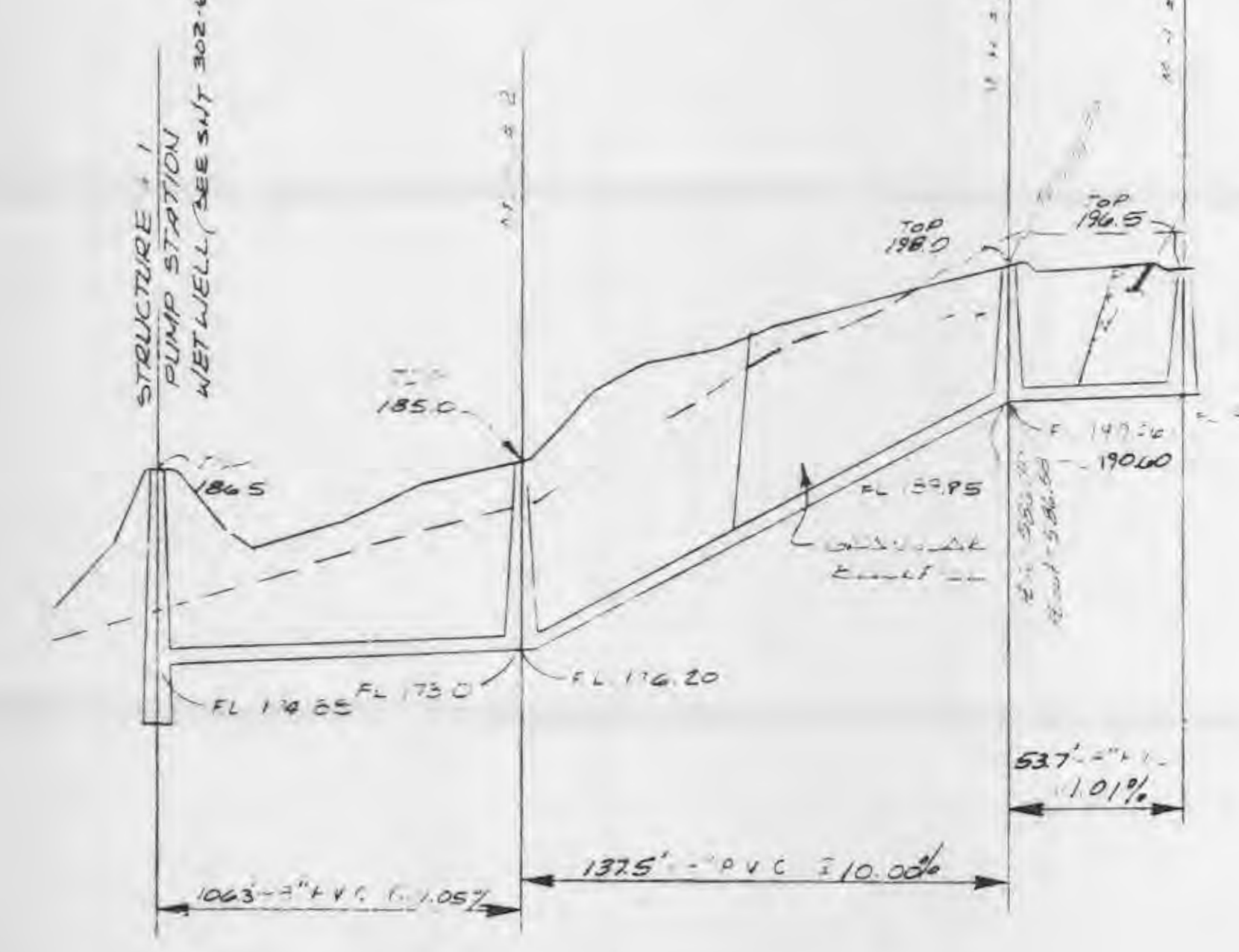
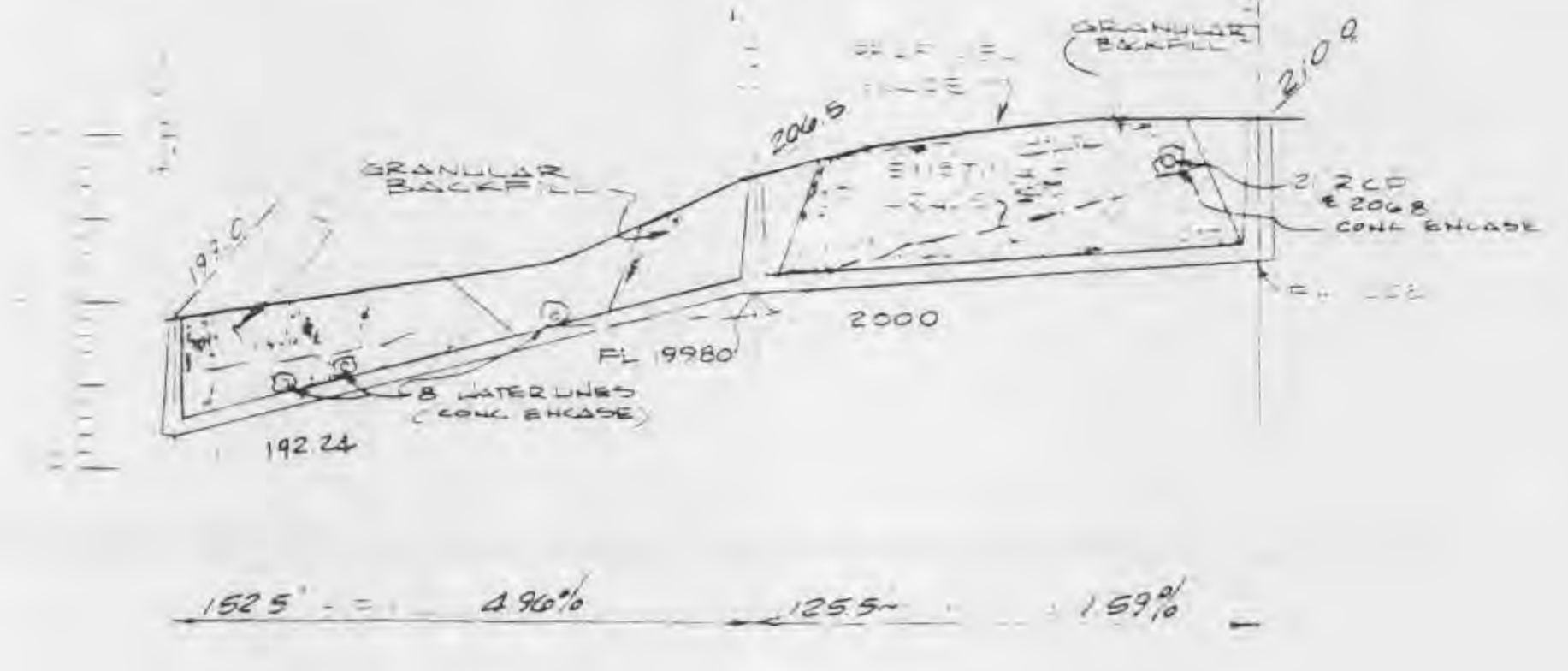
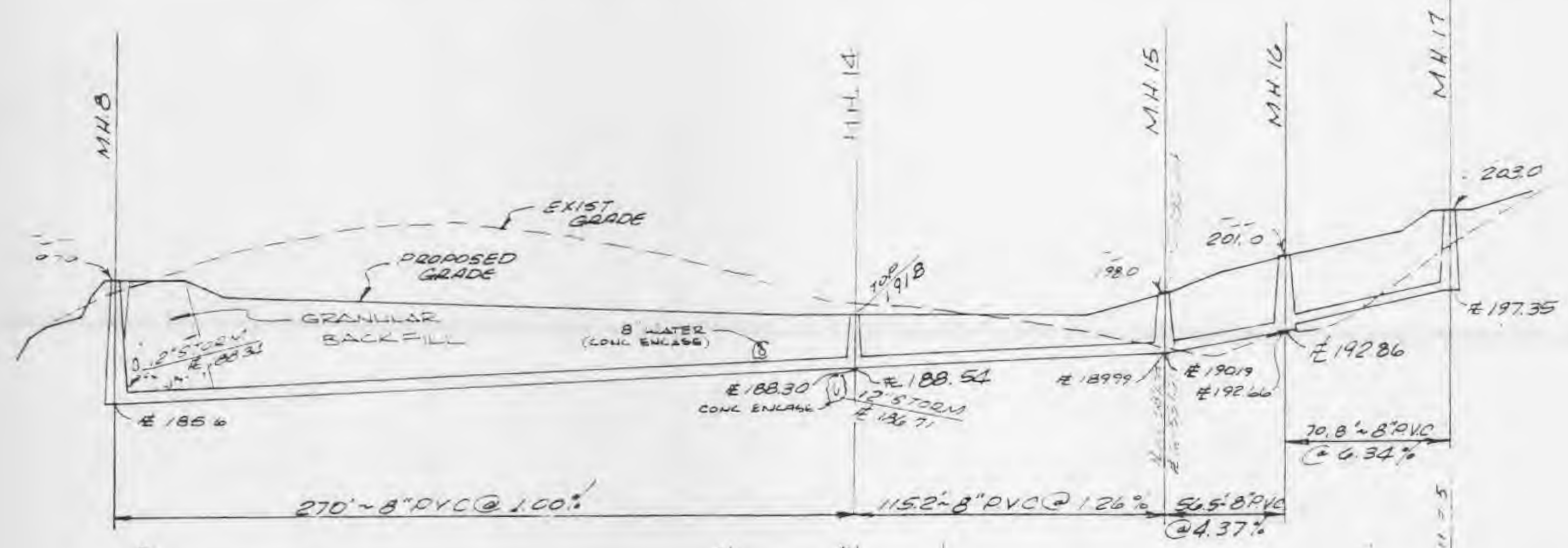
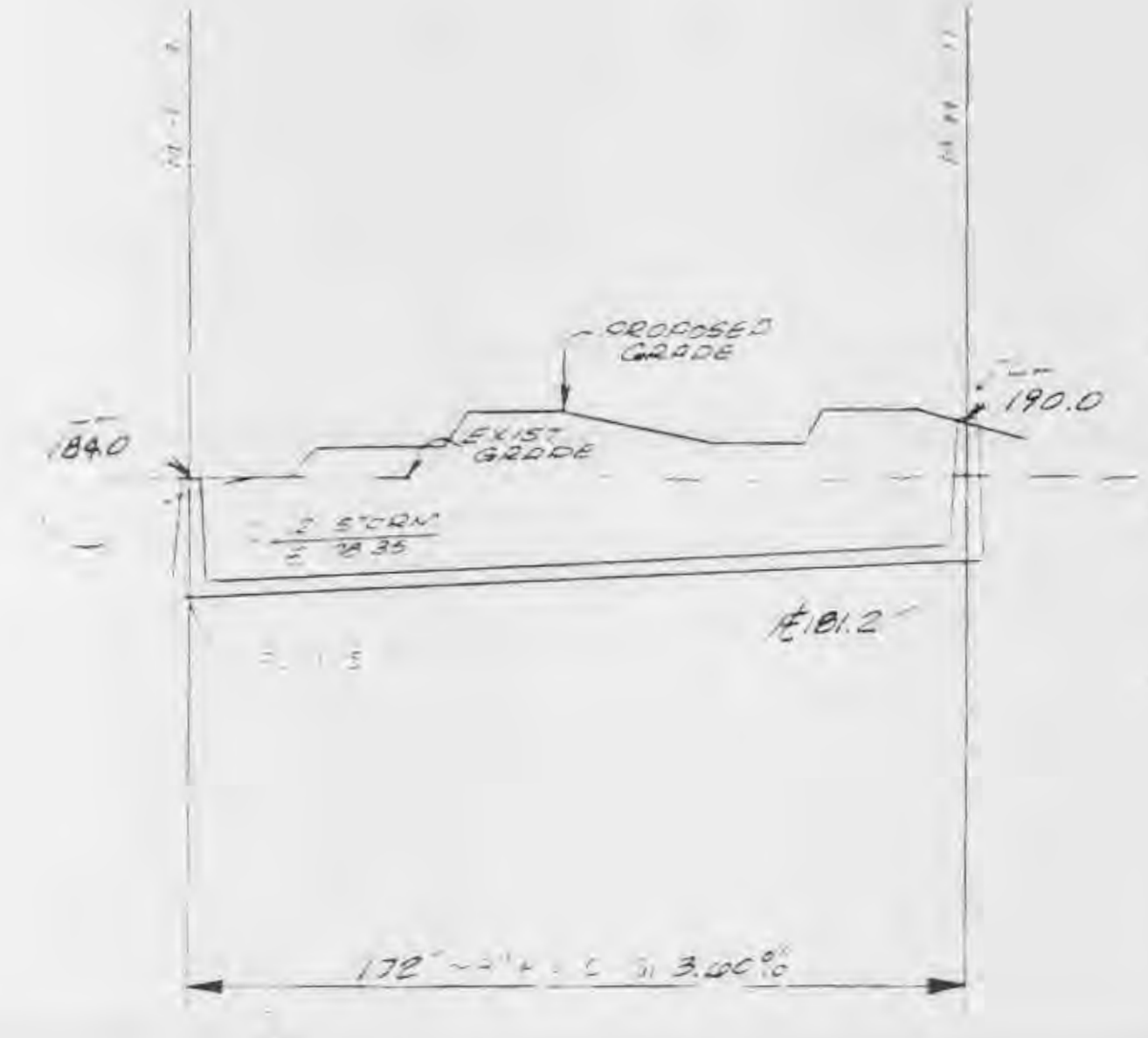
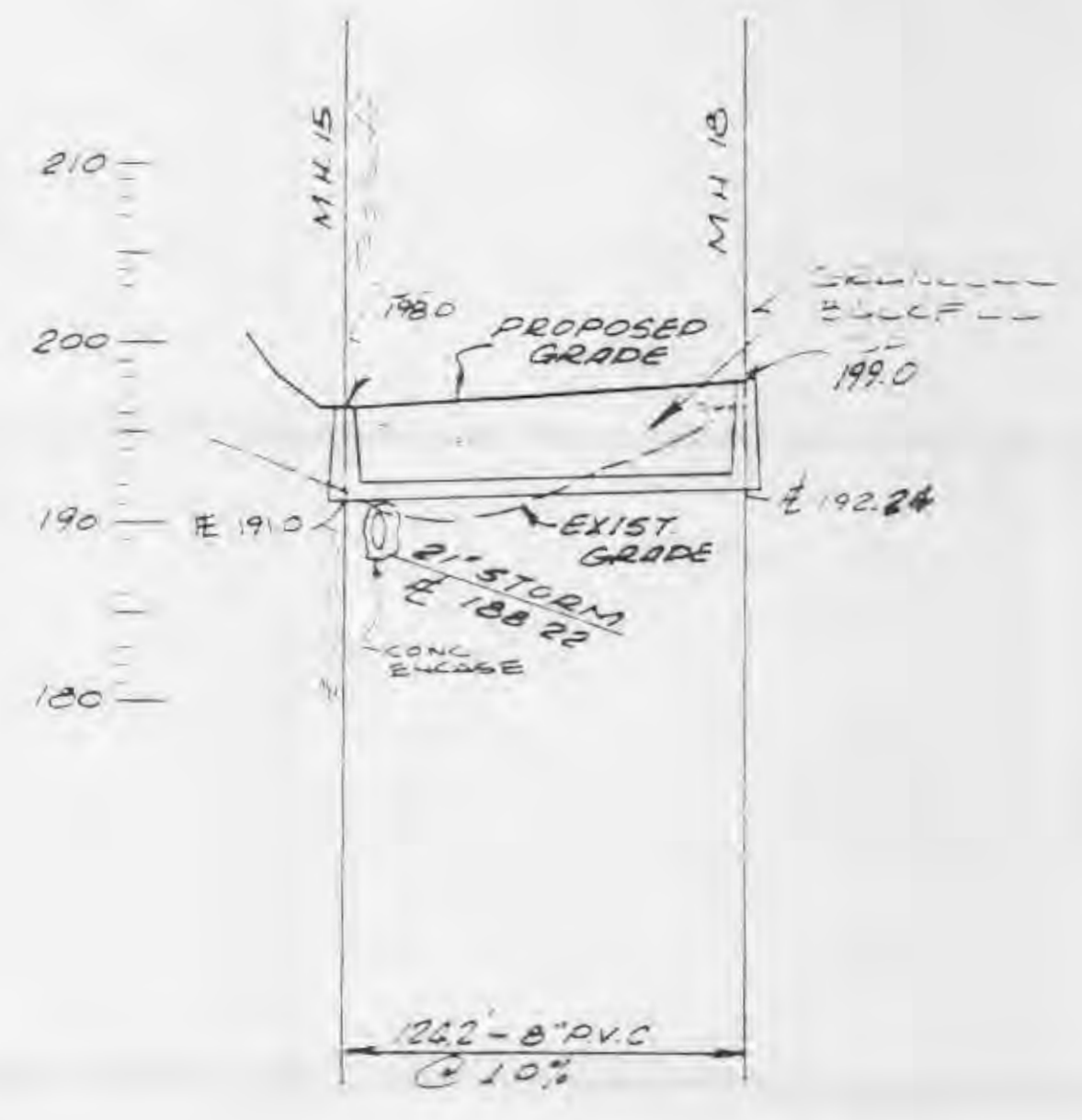
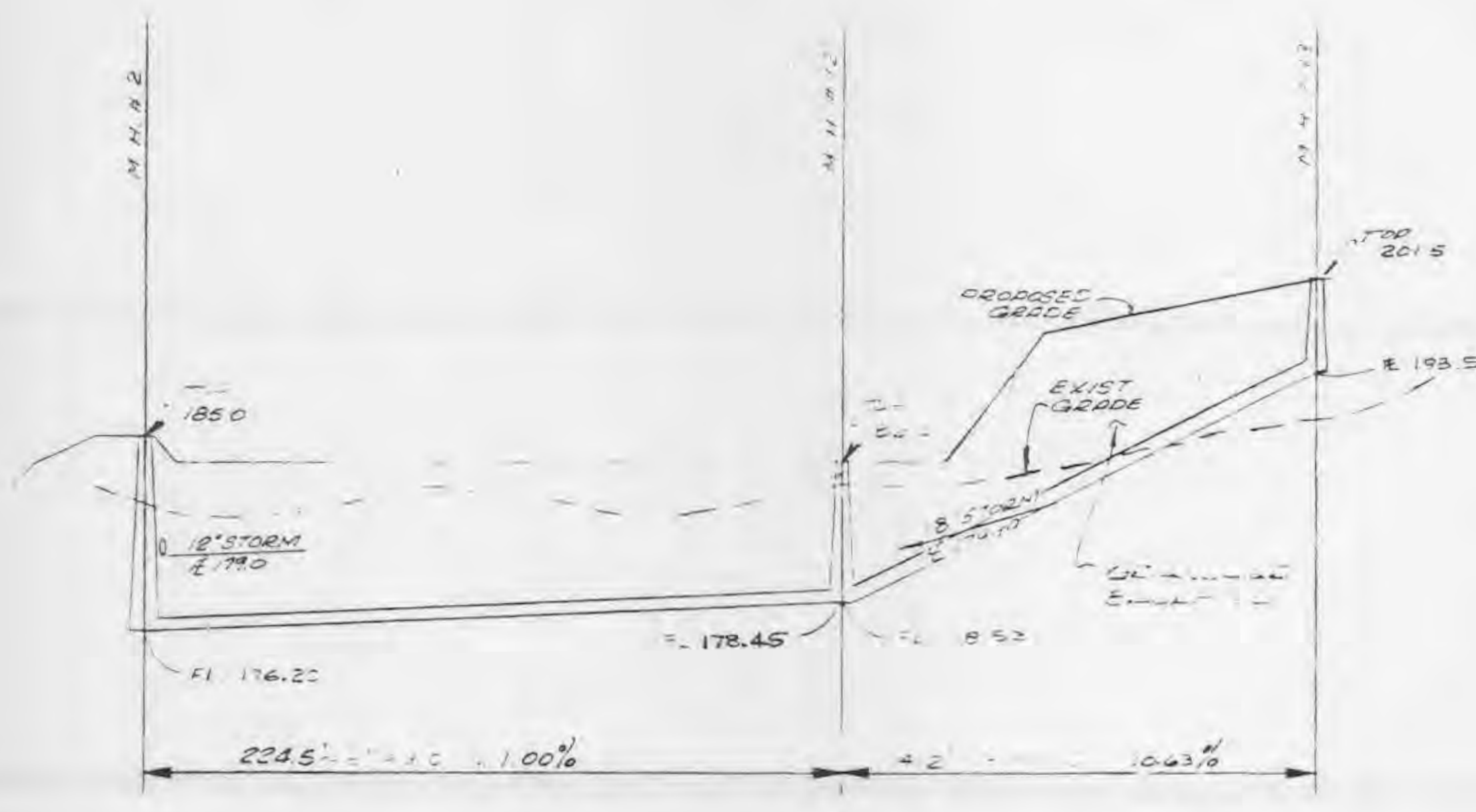
- NOTES
- DO NOT PLUG TOP LINE OF DROP MANHOLES
 - USE CLAY & BAILEY NO. 2008, NE 1/4" (736) DEETER 1315, OR APPROVED EQUAL FRAME & COVER FOR STORM & SANITARY MANHOLES
 - OUTSIDE OF MANHOLES SHALL HAVE A COAT OF AN ASPHALT OR COAL TAR PITCH WITH A THICKNESS OF 31 MIL.

DESIGNED BY	5
CHECKED BY	6
DATE	7
SCALE	8

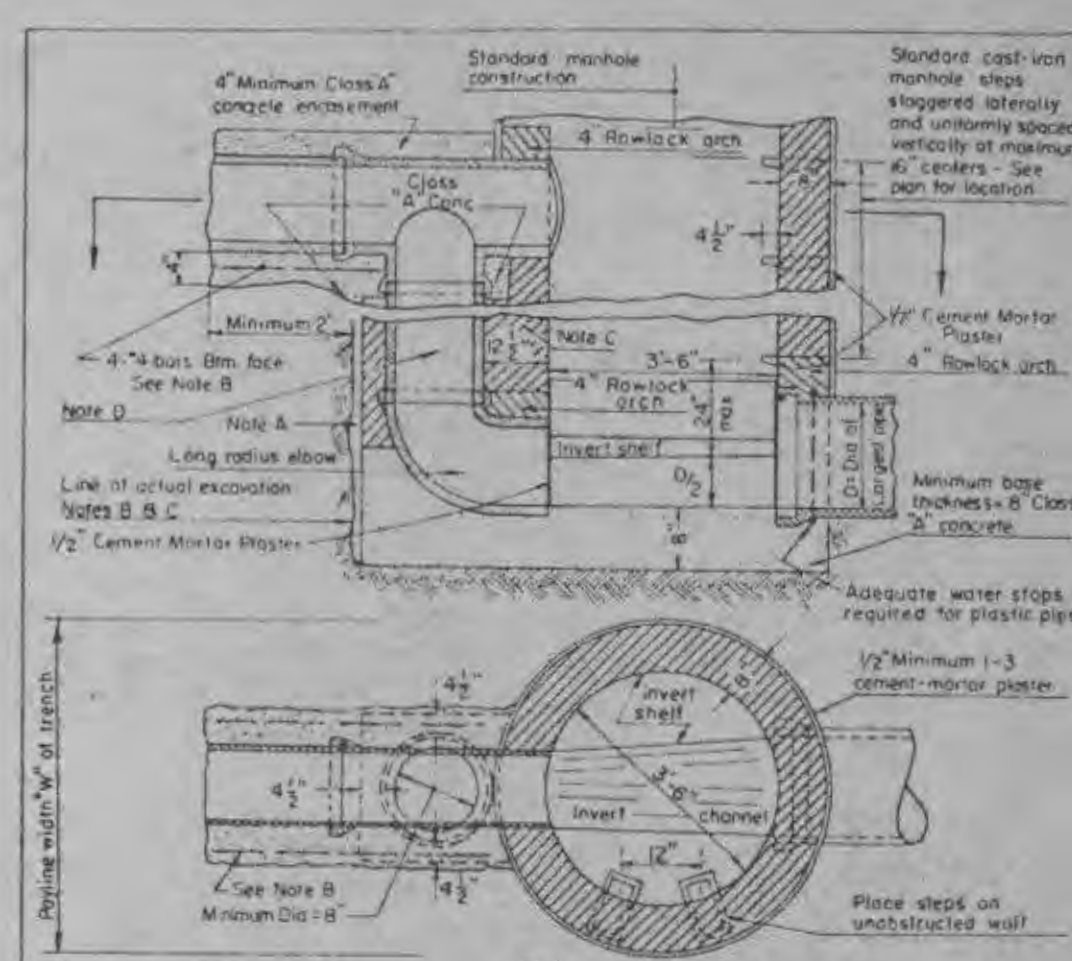
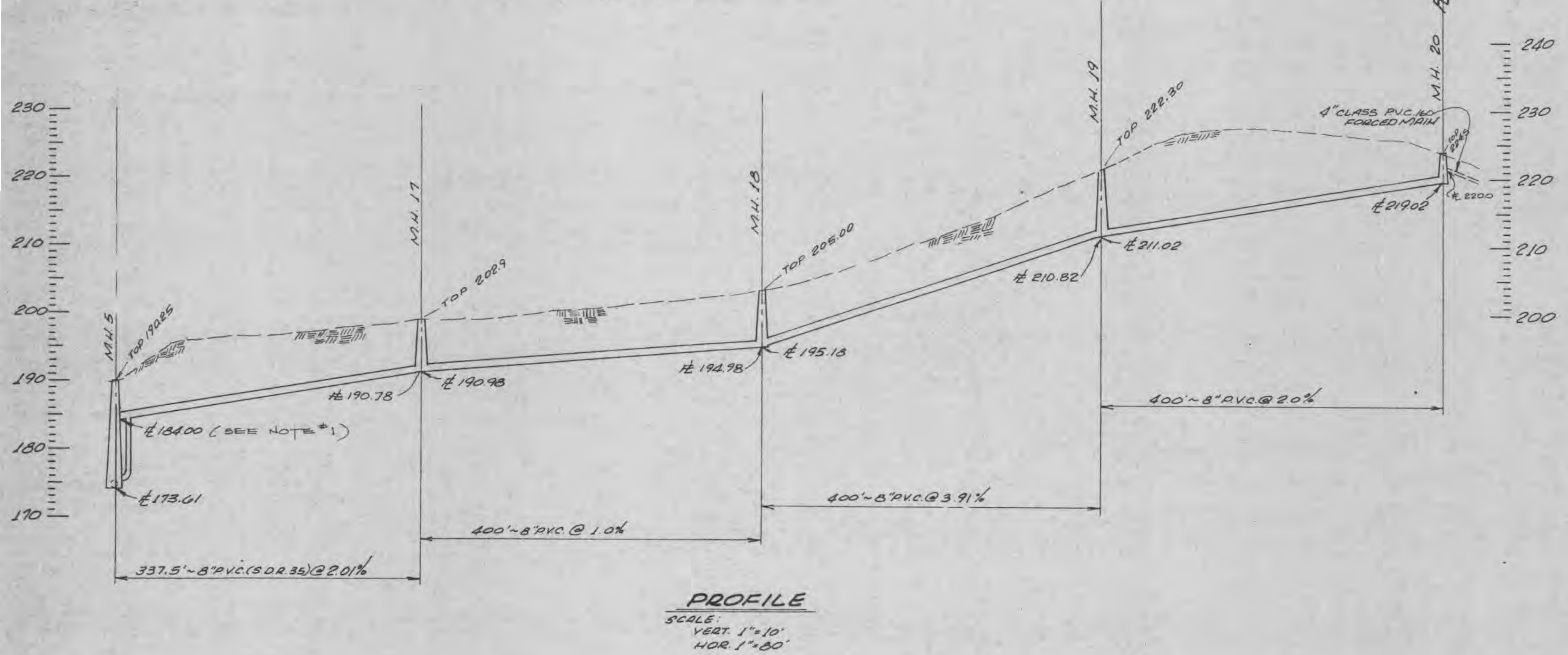
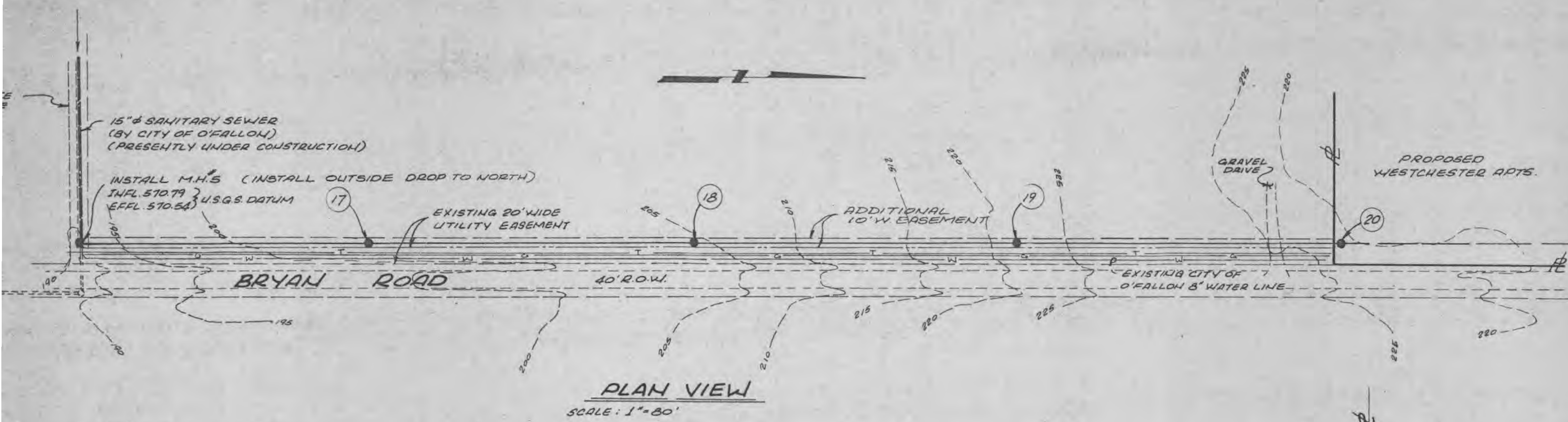
DRAWN	JOB NO.	DATE
M.B.	830200	MARCH 84
CHECKED	SCALE	AS SHOWN

IKW / WARDLAW ASSOCIATES
ARCHITECTS · ENGINEERS · PLANNERS
6 WESTBURY DR. ST. CHARLES, MISSOURI

WESTCHESTER
APARTMENT #11
O'Fallon, Missouri
DEVELOPED BY THE WESTCHESTER



NOTES:
1. 8" PVC TO BE SDR 35.



NOTE A: If line of actual excavation extends beyond line of drop manhole, fill excess excavated space with construction material of drop or pack with low-slump Class 'C' concrete to base of Class 'A' concrete encasement.

NOTE B: If excavated space outside of drop pipe masonry exceeds 1 foot, reinforce sewer pipe encasement with a minimum of 4 No. 4 bars for length of encasement.

NOTE C: Masonry encasement of drop pipe shall be bonded and packed integrally with manhole masonry.

NOTE D: Diameter of drop pipe for combined sewers and sanitary sewers, is same as incoming 8", 10" or 12" pipe sewer, and (2) for larger combined sewers unless otherwise shown on project plans for sanitary sewer, 15" or larger, a drop is not to be used; connect to manhole at, or within 3' above its flowline.

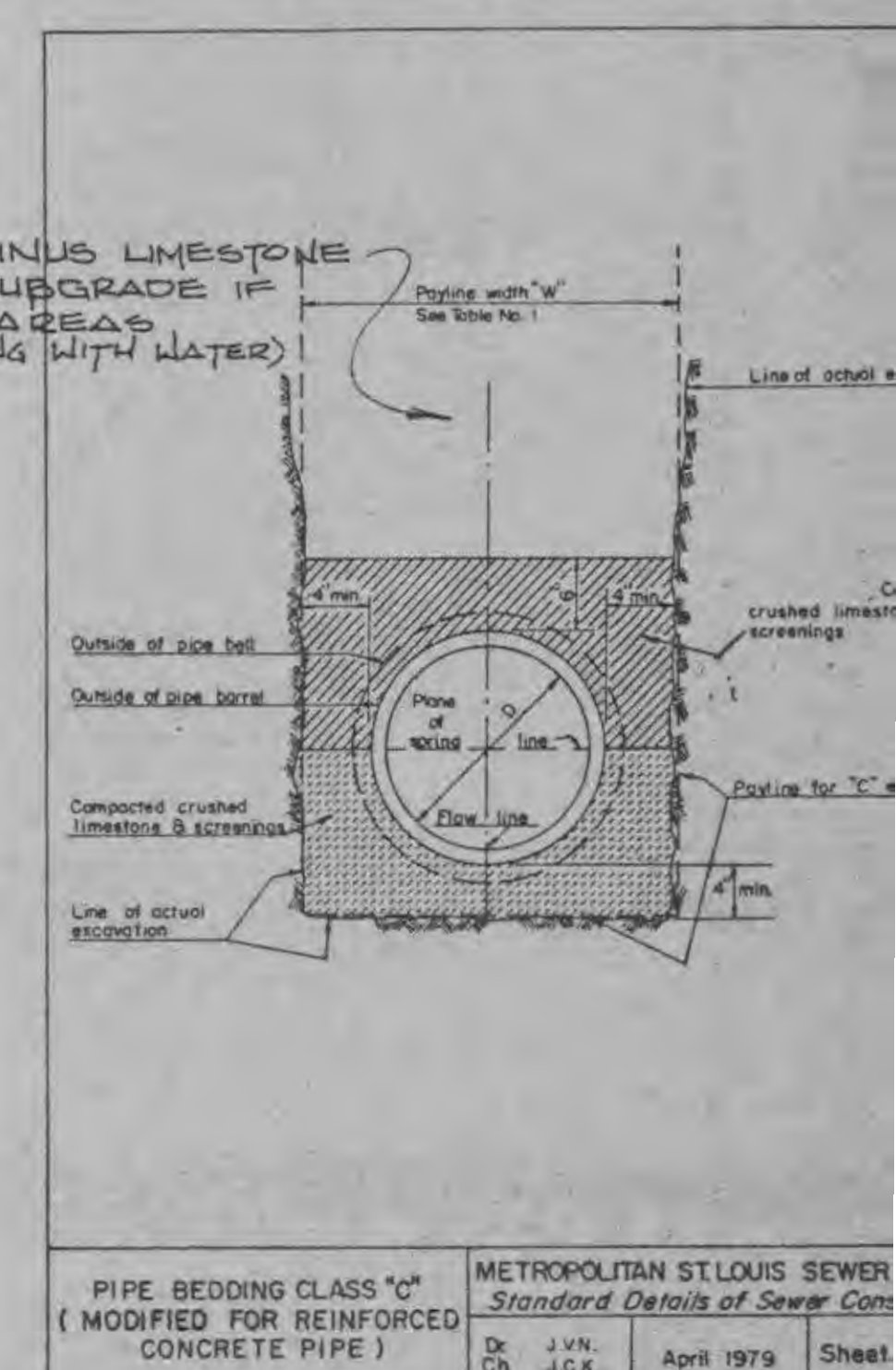
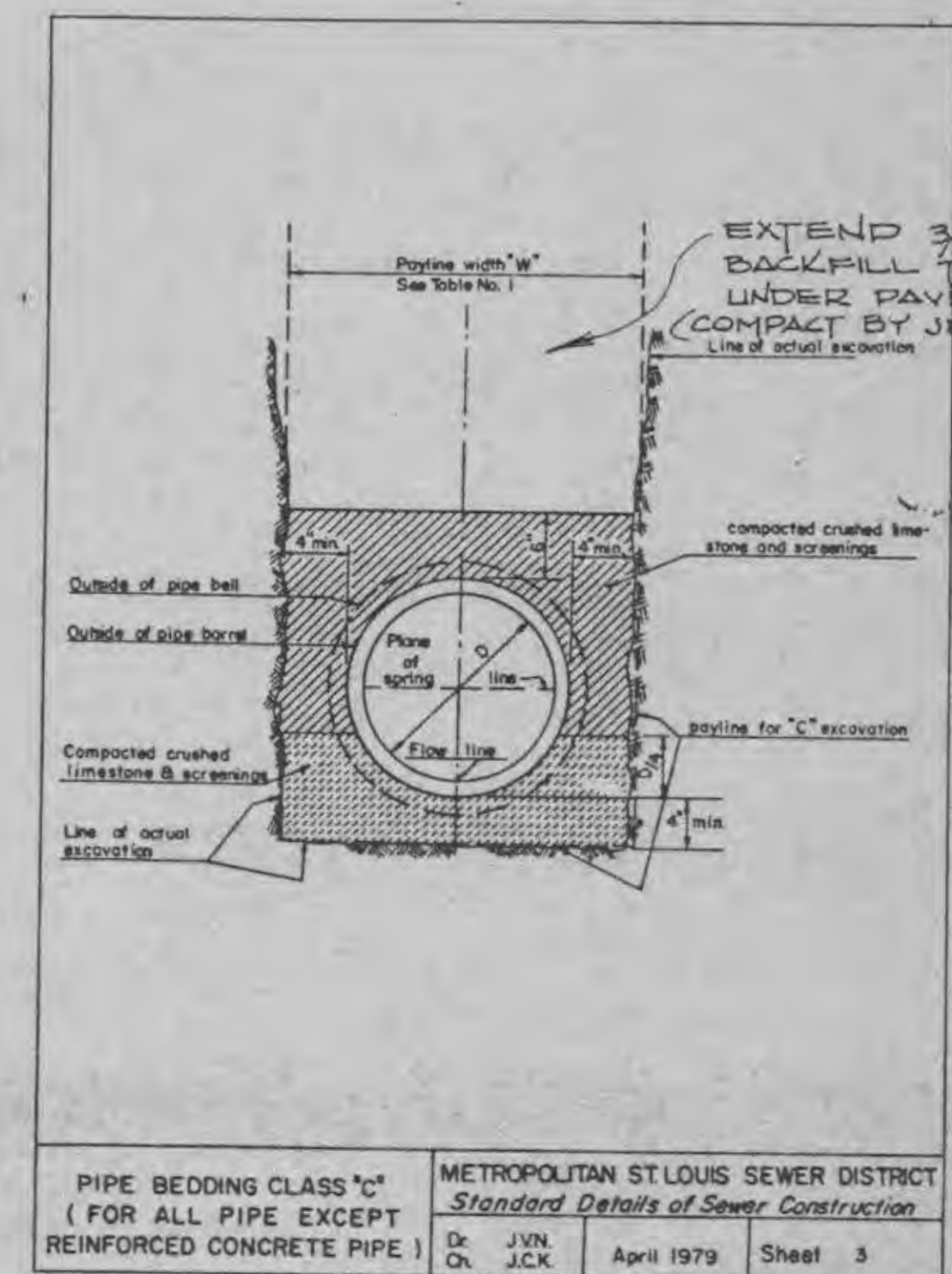
NOTE E: New outside drop on existing manhole requires No. 4 re-bars spaced vertically at 24" o.c. one on each side of the drop pipe, grouted through 2" drop holes or 4" wall. (See length of bars 18")

NOTE F: For inside drops, notes A, B & C shall apply.

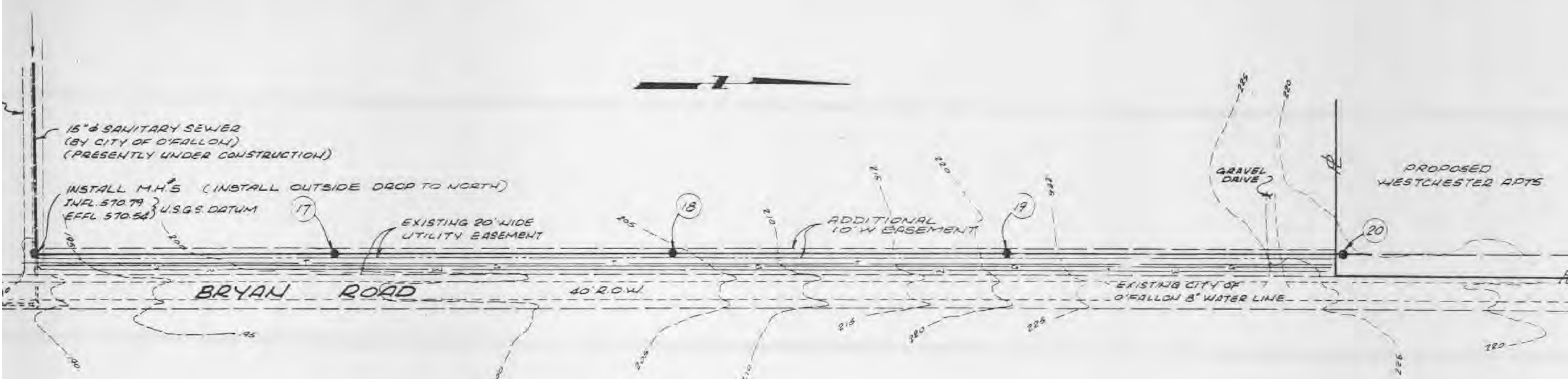
(SEE NOTE)

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
April 1979 Sheet 15

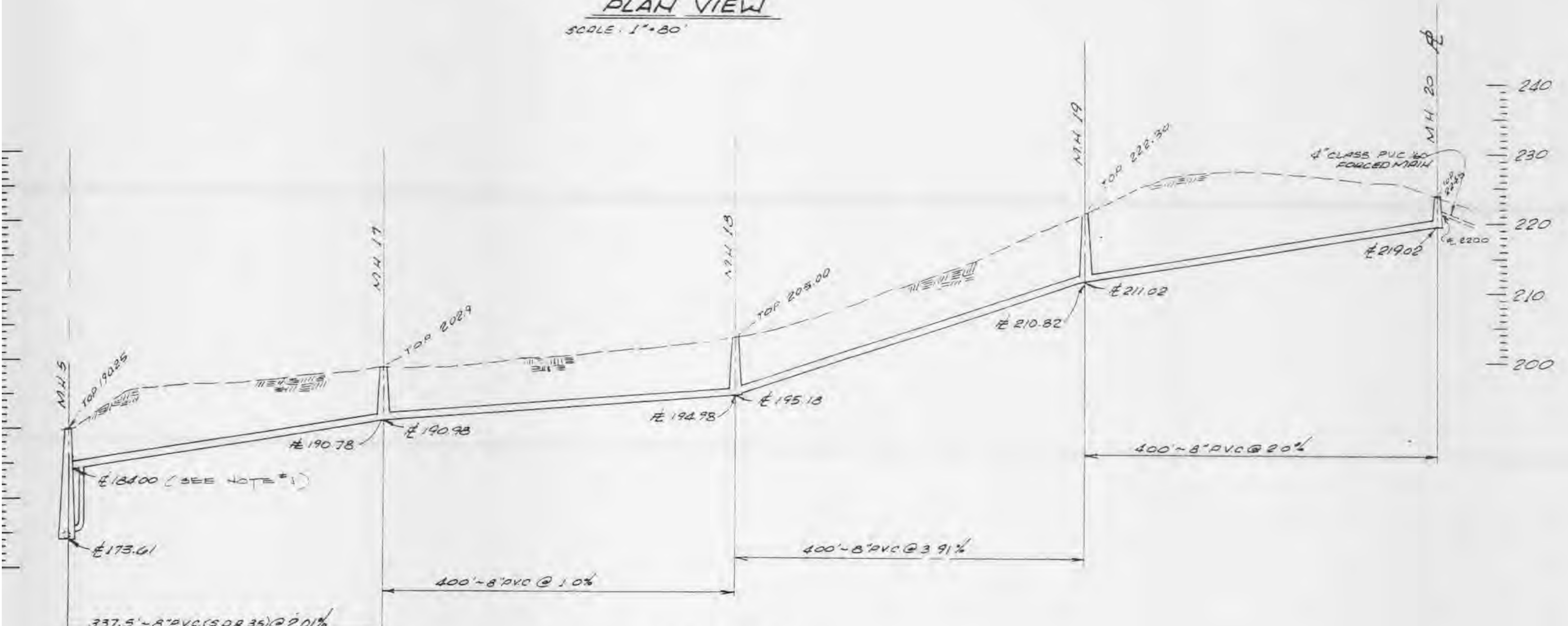
NOTE: CITY OF O'FALLON DOES NOT PERMIT ANY MASONRY CONSTRUCTION OF MANHOLES OR OUTSIDE DROPS. ALL OUTSIDE PIPE SUPPORT SHALL BE FORMED CLASS 'A' CONCRETE.



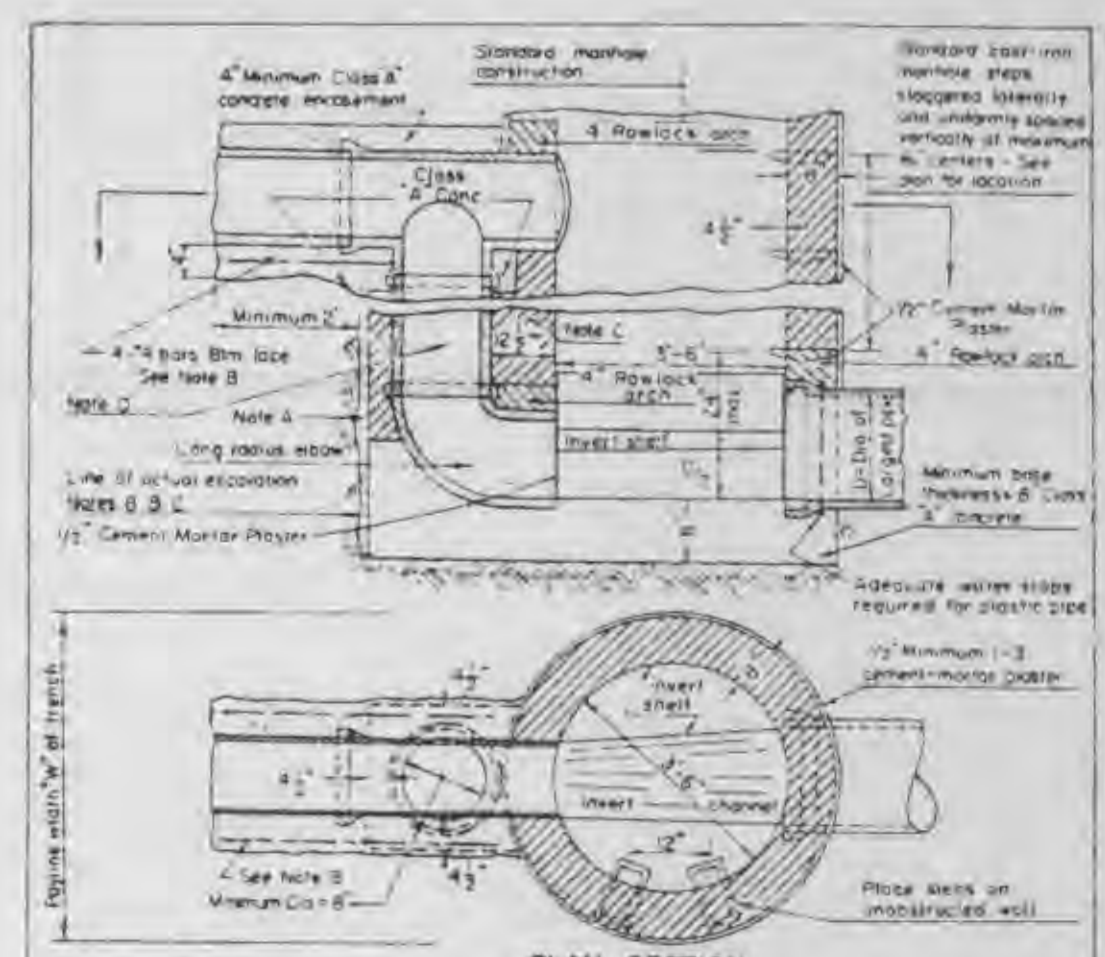
- NOTES
- DO NOT PLUG TOP LINE OF DROP MANHOLES.
 - USE CLAY & BAILEY NO. 2008, NEENAH R 1730, DEESTER 1315, OR APPROVED EQUAL MANHOLE FRAME & COVER FOR STORM & SANITARY MANHOLES.
 - OUTSIDE OF MANHOLES SHALL HAVE TWO COATS OF AN ASPHALT OR COAL TAR PITCH WITH A COMBINED THICKNESS OF 31 MIL.



PLAN VIEW
SCALE: 1"=80'



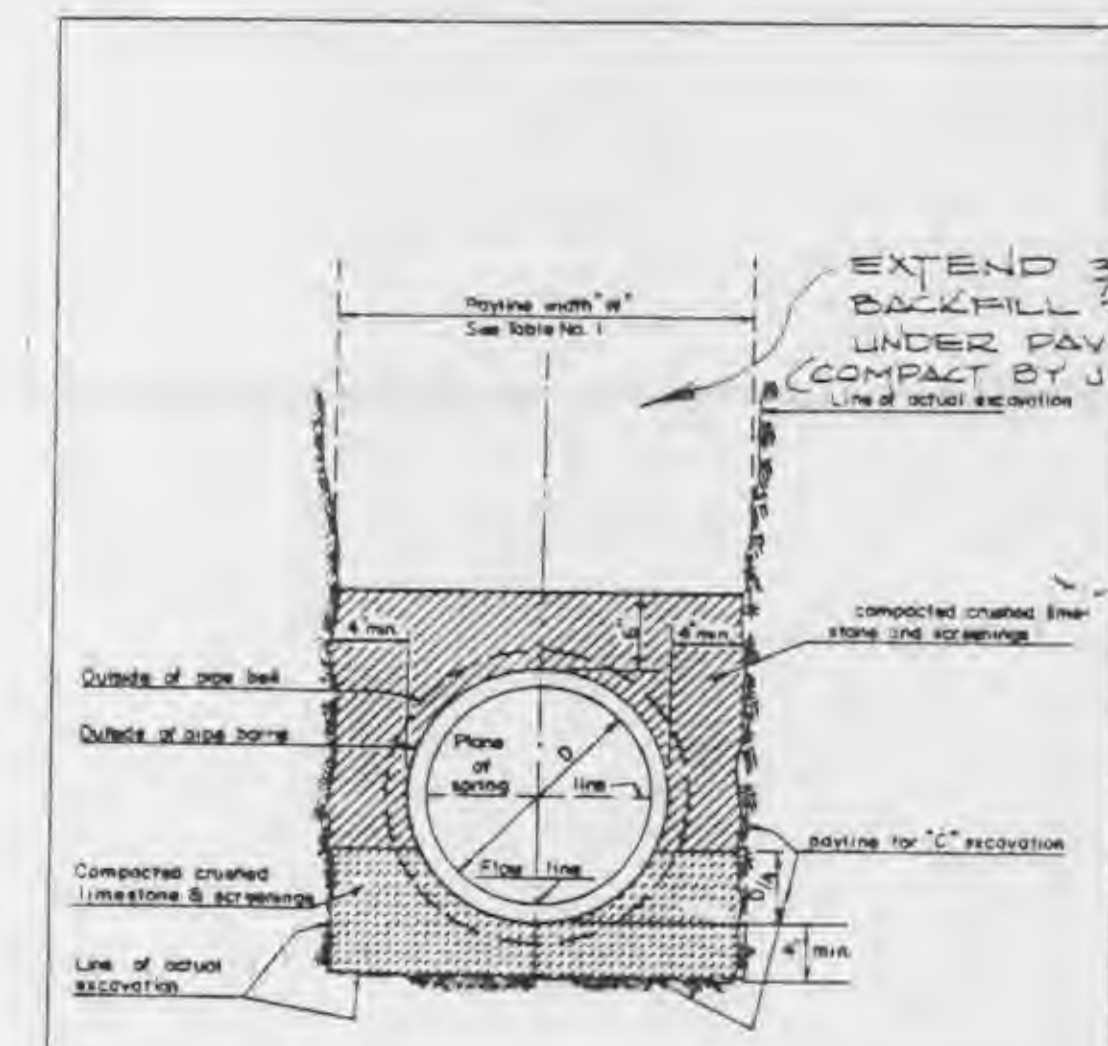
PROFILE
SCALE: VERT 1"=10'
HOR 1"=80'



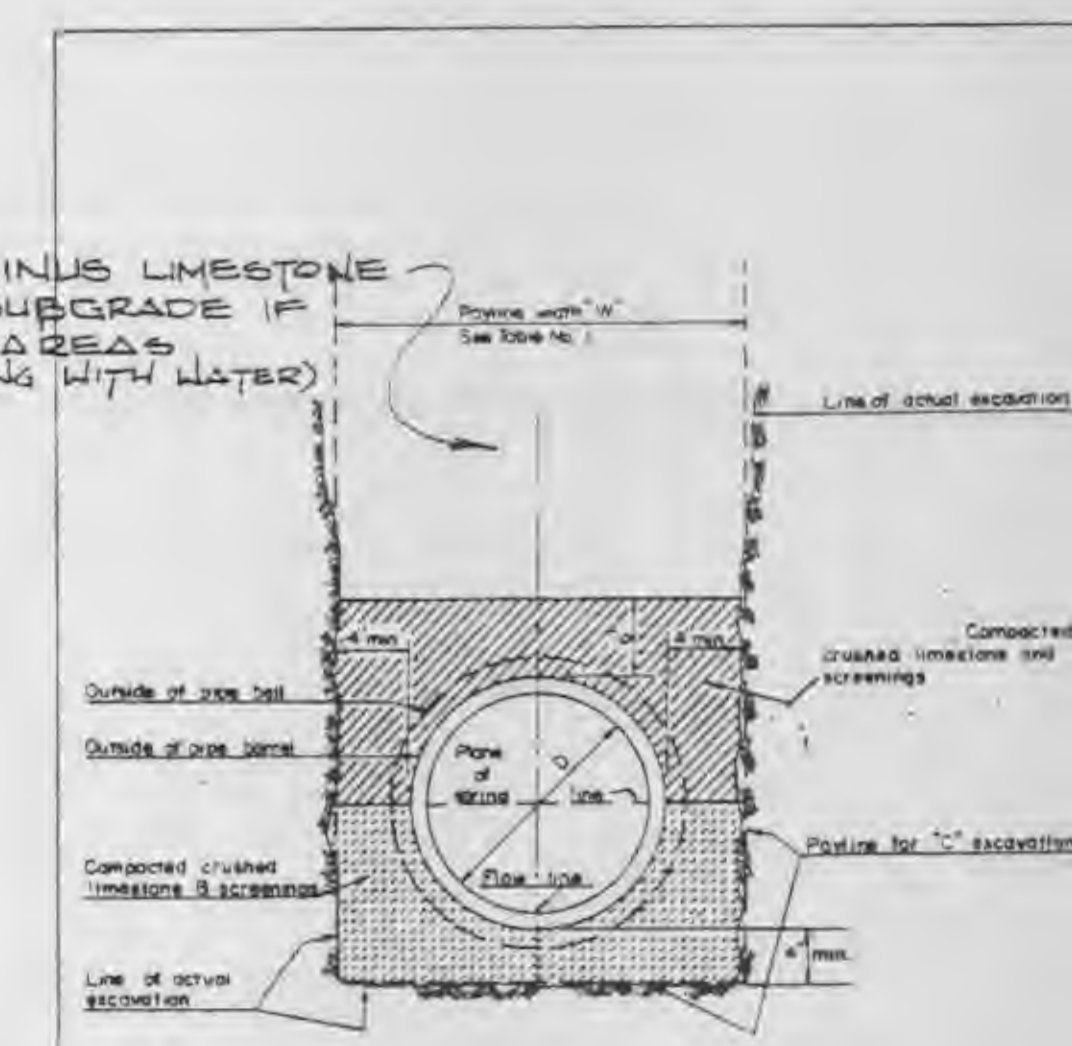
PLAN SECTION
 Note A: If line of actual excavation extends beyond line of drop manhole, fill excess excavated space with construction material of drop or back with low-strength Class B concrete to back of Class A concrete enclosure.
 Note B: If enclosed space outside of drop pipe requires excavation, backfill with concrete sewer pipe encasement with a minimum of 4" of concrete for length of enclosure.
 Note C: Heavy encasement of drop pipe shall be bonded and keyed vertically with minimum 1/2" rebar.
 Note D: Diameter of drop pipe for combined storm and sanitary sewers, as well as increasing 12" or 24" over sewer, and 12" for larger combined storm sewers. Otherwise shown on project plans for sanitary sewers. If larger, it shall not be used, connect to smaller or, as shown, 3" above the bottom.
 Note E: New outside drop on existing manhole requires No. 4 rebar spaced vertically at 24" o.c. one on each side of the drop pipe, grouted through 2" hole in m.h. wall. Two length of bar 18".
 Note F: For inside drop, notes A & B apply.

(SEE NOTE)	DROP MANHOLE ON COMBINED, STORM OR SANITARY SEWERS	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction
	Dr. JVN, Ch. JCK	April 1979, Sheet 15

NOTE
CITY OF O'FALLON DOES NOT PERMIT ANY MASONRY CONSTRUCTION OF MANHOLES OR OUTSIDE DROPS. ALL OUTSIDE PIPE SUPPORT SHALL BE FORMED CLASS A CONCRETE.



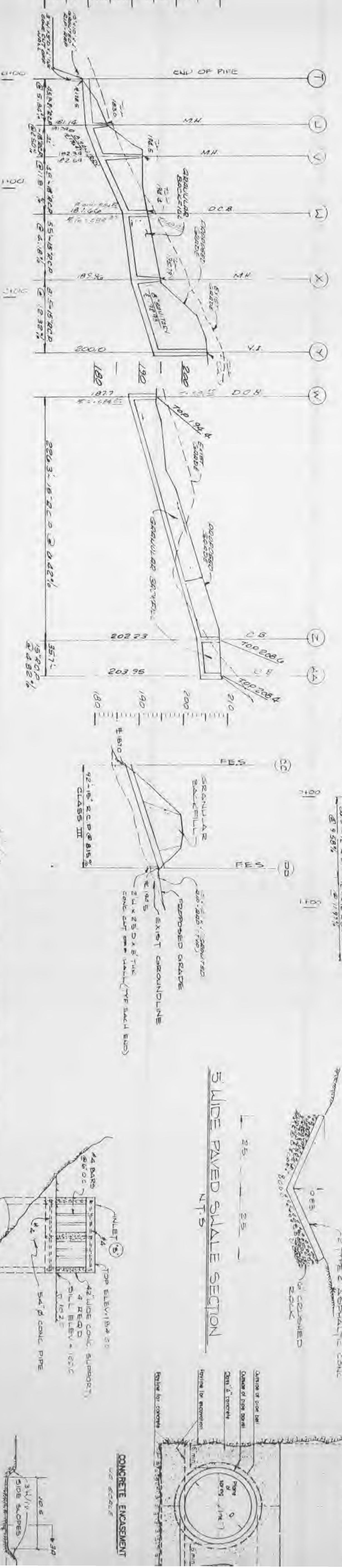
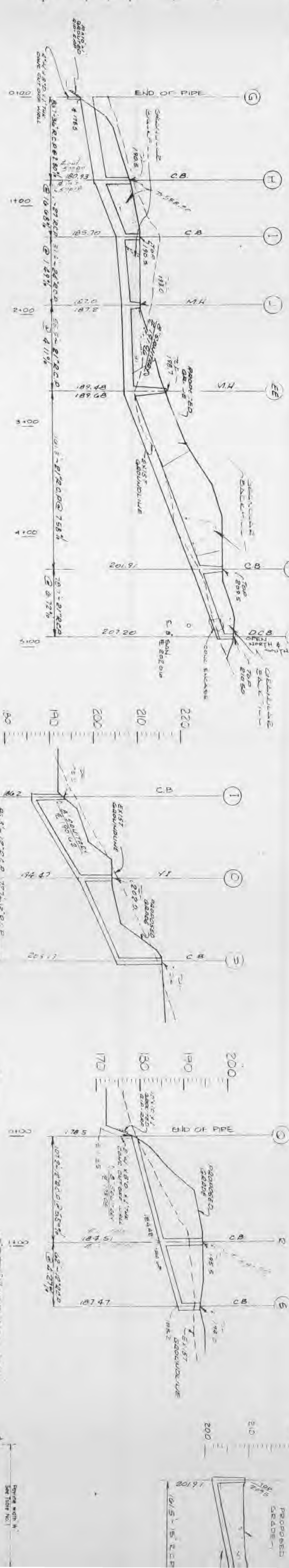
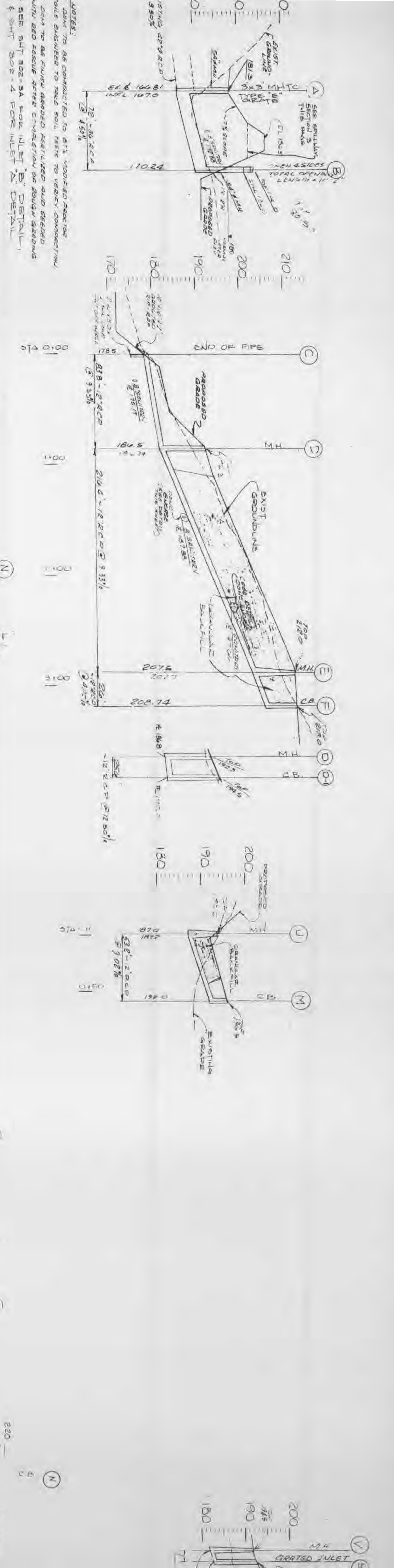
PIPE BEDDING CLASS "C" (FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE)	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction
	Dr. JVN, Ch. JCK, April 1979, Sheet 3



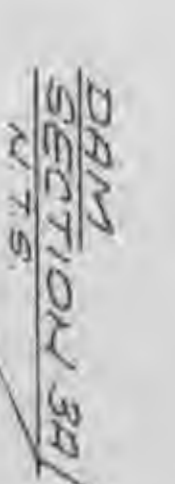
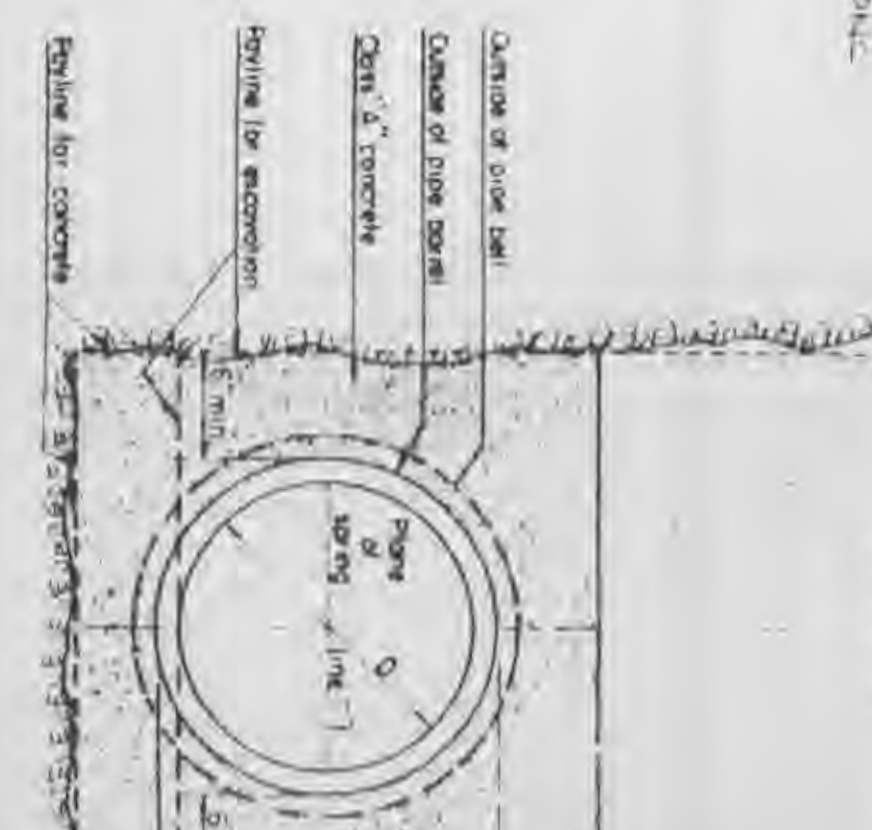
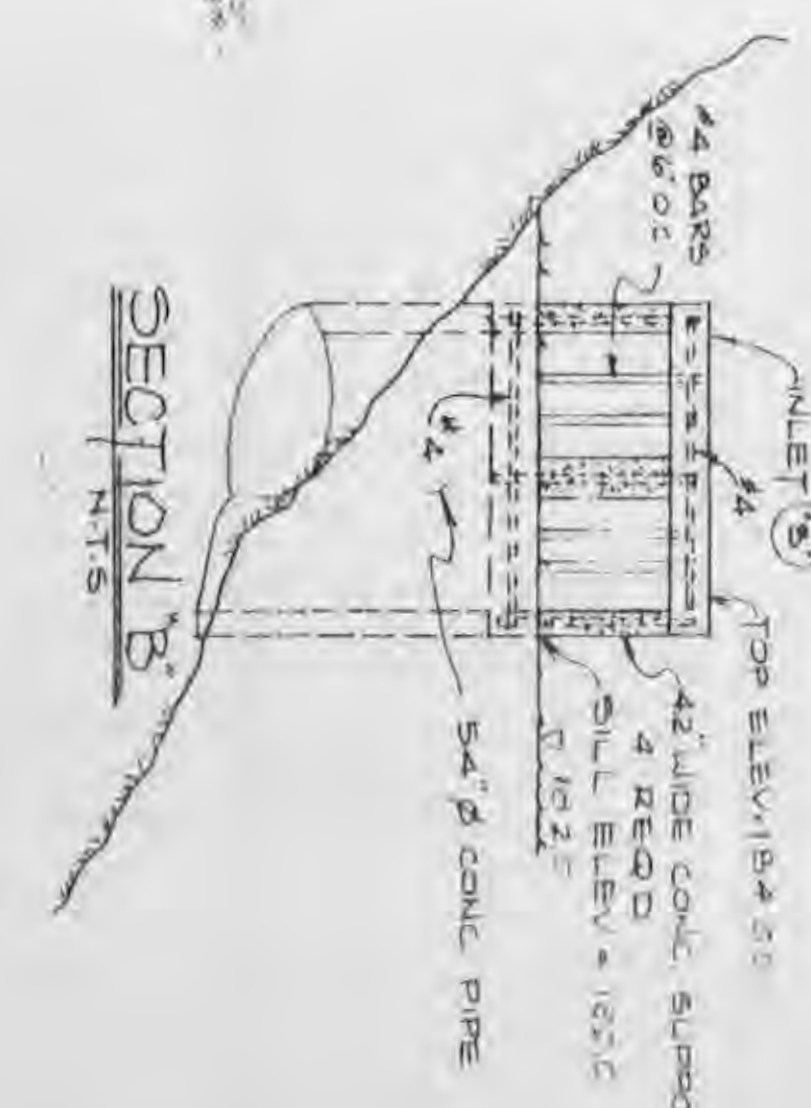
PIPE BEDDING CLASS "C" (MODIFIED FOR REINFORCED CONCRETE PIPE)	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction
	Dr. JVN, Ch. JCK, April 1979, Sheet 4

- NOTES:**
- DO NOT PLUG TOP LINE OF DROP MANHOLES.
 - USE CLAY & BAILEY NO. 2008, NEENAH R 1736, DEETER 1315, OR APPROVED EQUAL MANHOLE FRAME & COVER FOR STORM & SANITARY MANHOLES.
 - OUTSIDE OF MANHOLES SHALL HAVE TWO COATS OF AN ASPHALT OR COAL TAR PITCH WITH A COMBINED THICKNESS OF 31 MIL.

DRAWN JOB NO. M.B. 850200 TRACED DATE MARCH 84 CHECKED SCALE AS SHOWN		IKW/WARDLAW ASSOCIATES ARCHITECTS • ENGINEERS • PLANNERS 6 WESTBURY DR. ST. CHARLES, MISSOURI		WESTCHESTER APARTMENT VILLAGE 20' x 60' 1/2" DEVELOPER: WESTCHESTER PARTNERSHIP	SEWER PRO RECORD DRAWING
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1) Proposed 48" dia. sewer line to be installed in trench. The trench shall be 6' wide and 4' deep. The sewer line shall be installed in a trench with a 1:1 slope. The trench shall be backfilled with granular material. The sewer line shall be installed in a trench with a 1:1 slope. The trench shall be backfilled with granular material.



PROJECT NO.	302-34	DRAWN JOB NO.	15
DATE	10/1/88	TRACED DATE	10/1/88
REVISIONS	1. REVISED SHEET 302-34 FOR INLET 'B' DETAIL.	CHECKED SCALE	1/8" = 1'-0"
2. REVISED SHEET 302-34 FOR INLET 'A' DETAIL.			

IKW / WARDLAW ASSOCIATES
 ARCHITECTS · ENGINEERS · PLANNERS
 6 WESTBURY DR.
 ST. CHARLES, MISSOURI

WESTCHESTER APARTMENT VILLAGE
 DEVELOPED BY THE WESTCHESTER PARTNERSHIP

SEWER RECORD
 DRAWING NO. 1