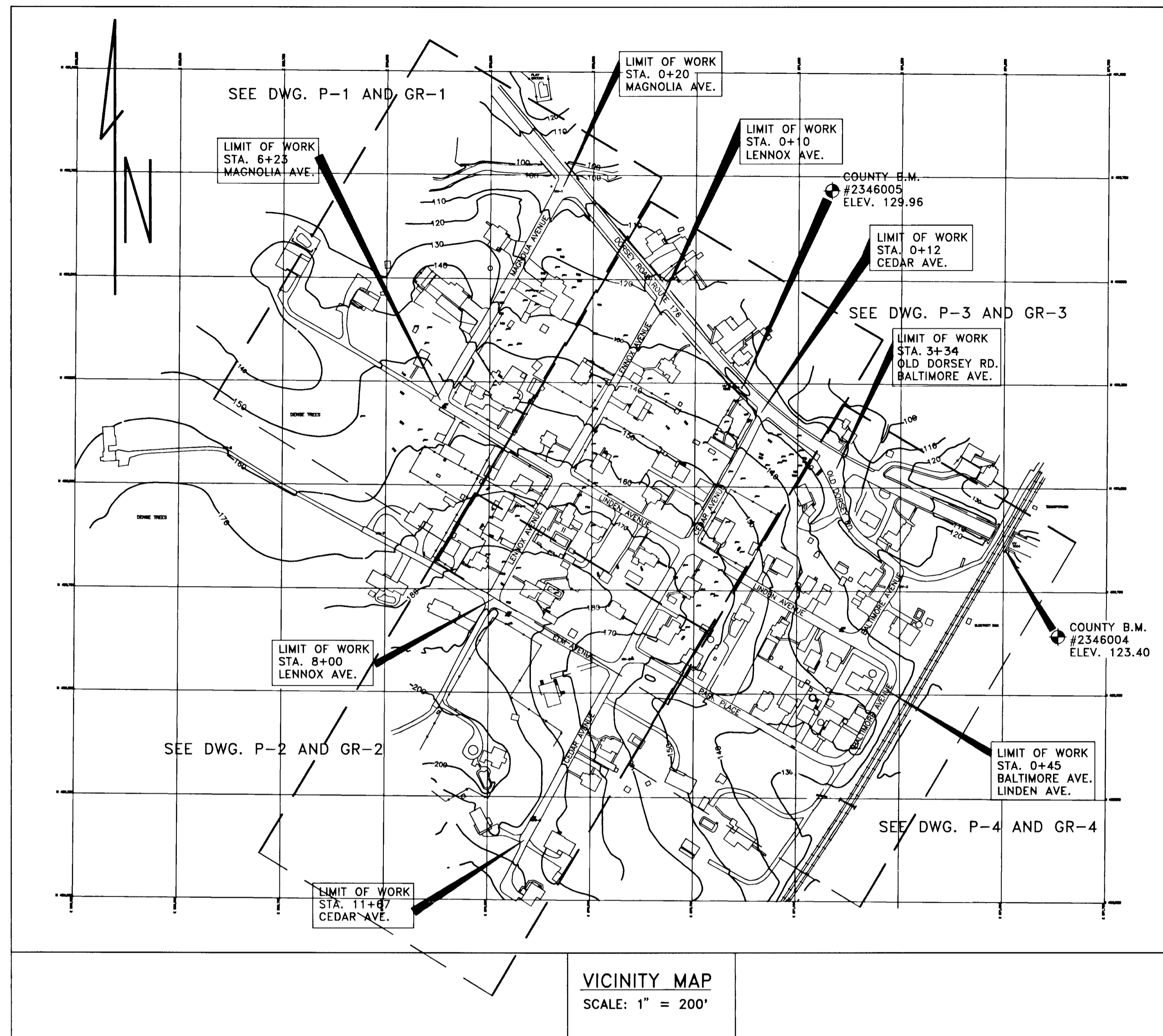


GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS, SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB AT ALL TIMES.
- THE CONTRACTOR WILL BE REQUIRED TO PERFORM HIS OWN TESTS TO VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES CROSSING THE PROPOSED STORM DRAINS PRIOR TO PLACING NEW STORM DRAINS, TO VERIFY THE NEED TO RELOCATE UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH GAS AND ELECTRIC COMPANIES TO RELOCATE THESE FACILITIES WHEN NECESSARY.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
BALTIMORE GAS AND ELECTRIC CO. - CONTRACTOR SERVICE: 850-4620
BALTIMORE GAS AND ELECTRIC CO. - UNDERGROUND DAMAGE CONTROL: 685-0123

BUREAU OF UTILITIES, HOWARD COUNTY DEPT. OF PUBLIC WORKS: 313-4900
C & P TELEPHONE COMPANY: 954-6232
MISS UTILITY: 1-800-257-7777
COLONIAL PIPELINE CO. - 795-1390
STATE HIGHWAY ADMINISTRATION - 531-5533
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL STORM SEWER MAINS SHALL BE REINFORCED CONCRETE PIPE, CLASS IV UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL STORM SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- TRENCH REPAIR TO BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAILS.
- ALL WORK WILL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- LENGTH OF OPEN TRENCH WILL BE LIMITED TO THAT WHICH CAN BE FILLED AND STABILIZED WITHIN ONE WORKING DAY.
- CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REINSTALL ALL EXISTING SIGNS, FENCES OR MAILBOXES WITHIN THE LIMIT OF WORK AT A LOCATION DETERMINED BY THE CONTRACTOR. ALL COSTS INCURRED BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK PROVIDED IN THE CONTRACT BID SCHEDULE.
- THE CONTRACTOR SHALL CONFINE ALL WORK WITHIN THE EXISTING COUNTY RIGHT-OF-WAY AND EASEMENTS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL TEST PIT ALL LOCATIONS WHERE PROPOSED STORM DRAINS CROSS EXISTING UTILITIES AS DIRECTED BY THE ENGINEER.



INDEX OF DRAWINGS

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2 OF 24	TYPICAL SECTIONS	C-1
3 OF 24	TYPICAL SECTIONS	C-2
4 OF 24	MISC. DETAILS	C-3
5 OF 24	SURVEY CONTROL DATA	C-4
6 OF 24	DRAINAGE MAP AND DATA	G-2
7 OF 24	STORM DRAIN AND ROAD IMPROVEMENT PLAN	P-1
8 OF 24	STORM DRAIN AND ROAD IMPROVEMENT PLAN	P-2
9 OF 24	STORM DRAIN AND ROAD IMPROVEMENT PLAN	P-3
10 OF 24	STORM DRAIN AND ROAD IMPROVEMENT PLAN	P-4
11 OF 24	GRADING, SEDIMENT AND EROSION CONTROL PLAN	GR-1
12 OF 24	GRADING, SEDIMENT AND EROSION CONTROL PLAN	GR-2
13 OF 24	GRADING, SEDIMENT AND EROSION CONTROL PLAN	GR-3
14 OF 24	GRADING, SEDIMENT AND EROSION CONTROL PLAN	GR-4
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16 OF 24	STORM DRAIN PROFILES	PR-2
17 OF 24	STORM DRAIN PROFILES	PR-3
18 OF 24	SUMM. OF STRUCTURES, PIPE AND DITCH SCHEDULE	C-5
19 OF 24	PROFILE-CURB FLOW LINE	PR-4
20 OF 24	PROFILE-CURB FLOW LINE	PR-5
21 OF 24	PROFILE-CURB FLOW LINE	PR-6
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24 OF 24	SEDIMENT & EROSION CONTROL NOTES & DETAILS	SC-1

INDEX OF CROSS SECTIONS

NOTE: THESE UNDESIGNED SHEETS ARE SUPPLEMENTAL TO THE ABOVE SHEETS.

SHEET NO.	TITLE	DRAWING NO.
1	TITLE SHEET	
2	MAGNOLIA AVE. STA. 0+00 to STA. 1+50	CS-1
3	MAGNOLIA AVE. STA. 2+00 to STA. 3+50	CS-2
4	MAGNOLIA AVE. STA. 4+00 to STA. 5+50	CS-3
5	MAGNOLIA AVE. STA. 6+00 to STA. 6+09	CS-4
6	LINDEN AVE. STA. 0+00 to STA. 1+50	CS-5
7	LINDEN AVE. STA. 2+00 to STA. 4+00	CS-6
8	LINDEN AVE. STA. 4+50 to STA. 6+00	CS-7
9	LINDEN AVE. STA. 6+50 to STA. 8+50	CS-8
10	LINDEN AVE. STA. 9+06 to STA. 10+56	CS-9
11	LINDEN AVE. STA. 11+06 to STA. 12+56	CS-10
12	LINDEN AVE. STA. 13+06	CS-11
13	LENNOX AVE. STA. 0+00 to STA. 1+50	CS-12
14	LENNOX AVE. STA. 2+00 to STA. 3+50	CS-13
15	LENNOX AVE. STA. 4+00 to STA. 4+87	CS-14
16	LENNOX AVE. STA. 5+00 to STA. 6+50	CS-15
17	LENNOX AVE. STA. 7+00 to STA. 8+00	CS-16
18	CEDAR AVE. STA. 0+00 to STA. 1+50	CS-17
19	CEDAR AVE. STA. 2+00 to STA. 3+50	CS-18
20	CEDAR AVE. STA. 3+70 to STA. 5+00	CS-19
21	CEDAR AVE. STA. 5+50 to STA. 7+00	CS-20
22	CEDAR AVE. STA. 7+22 to STA. 8+72	CS-21
23	CEDAR AVE. STA. 9+22 to STA. 10+72	CS-22
24	CEDAR AVE. STA. 11+22 to STA. 11+66	CS-23
25	ELM AVE. STA. 0+50 to STA. 2+00	CS-24
26	ELM AVE. STA. 2+50 to STA. 3+00	CS-25
27	PARK AVE. STA. 0+51 to STA. 2+01	CS-26
28	PARK AVE. STA. 2+51 to STA. 4+00	CS-27
29	BALTIMORE AVE. STA. 0+00 to STA. 1+50	CS-28
30	BALTIMORE AVE. STA. 1+86	CS-29
31	BALTIMORE AVE. STA. 3+69 to STA. 5+19	CS-30
32	OLD DORSEY RD. STA. 0+00 to STA. 1+50	CS-31
33	OLD DORSEY RD. STA. 1+63 to STA. 3+13	CS-32

LENNOX PARK STORM DRAINAGE IMPROVEMENTS HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. D-1100 ELECTION DISTRICT NO. 1

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

J. Co. Campbell 6/5/96
SIGNATURE DATE

U.S. NATURAL RESOURCES CONSERVATION SERVICE

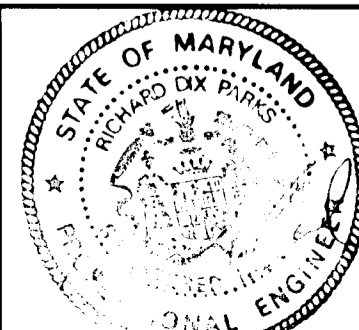
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: *[Signature]* 6/5/96
SIGNATURE DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 6/5/96
DIRECTOR OF PUBLIC WORKS - DATE
[Signature] 6/5/96
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

acer
Acer Engineers & Consultants, Inc.
201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES: R.D.P.					
DRN: A.C.M.					
CHK: R.D.P.					
DATE: 03/93	BY	NO	REVISION	DATE	

LENNOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CERTIFICATION BY THE DEVELOPER

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT THE RESPONSIBLE PERSONAL INVOLVED IN THIS CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

[Signature] 6/5/96
SIGNATURE OF DEVELOPER DATE

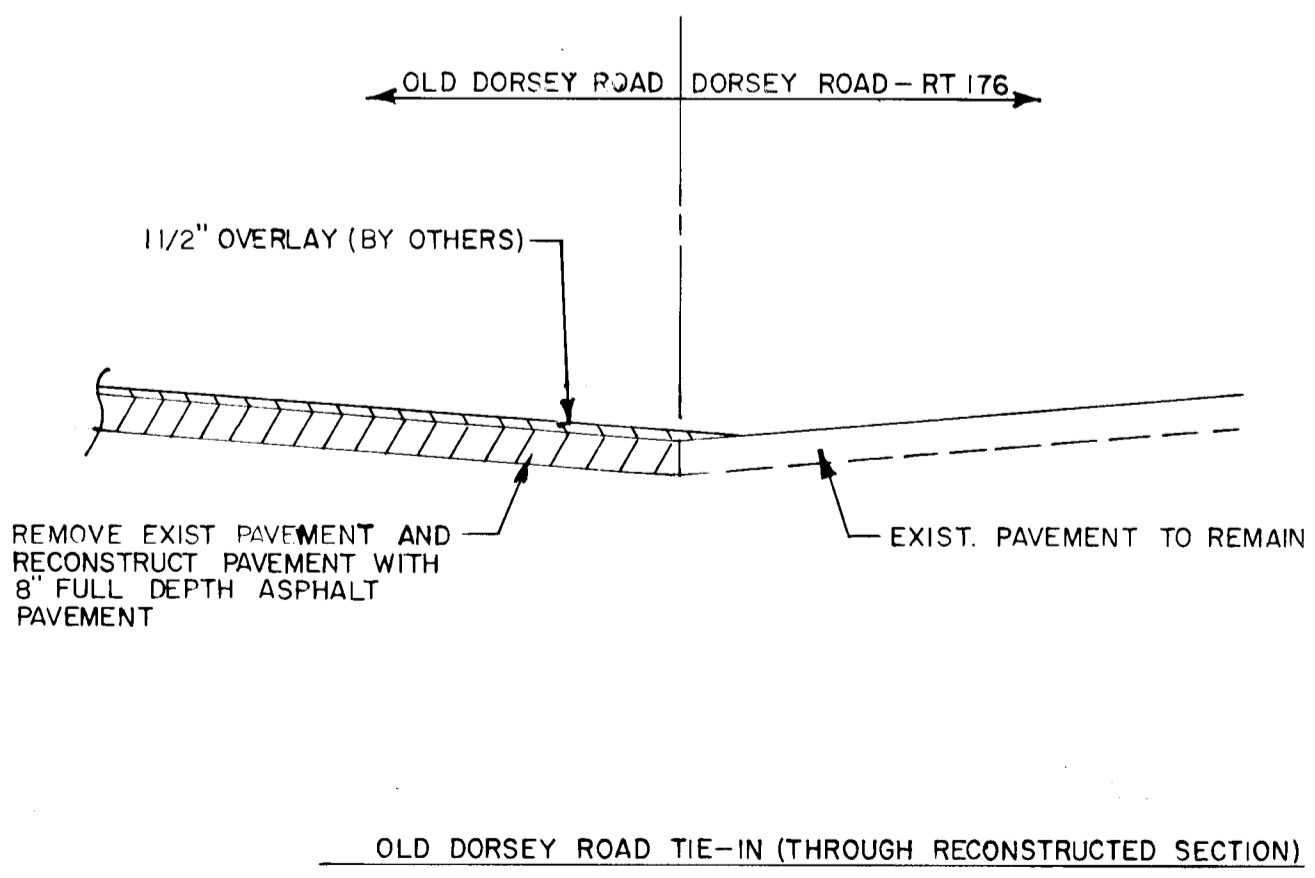
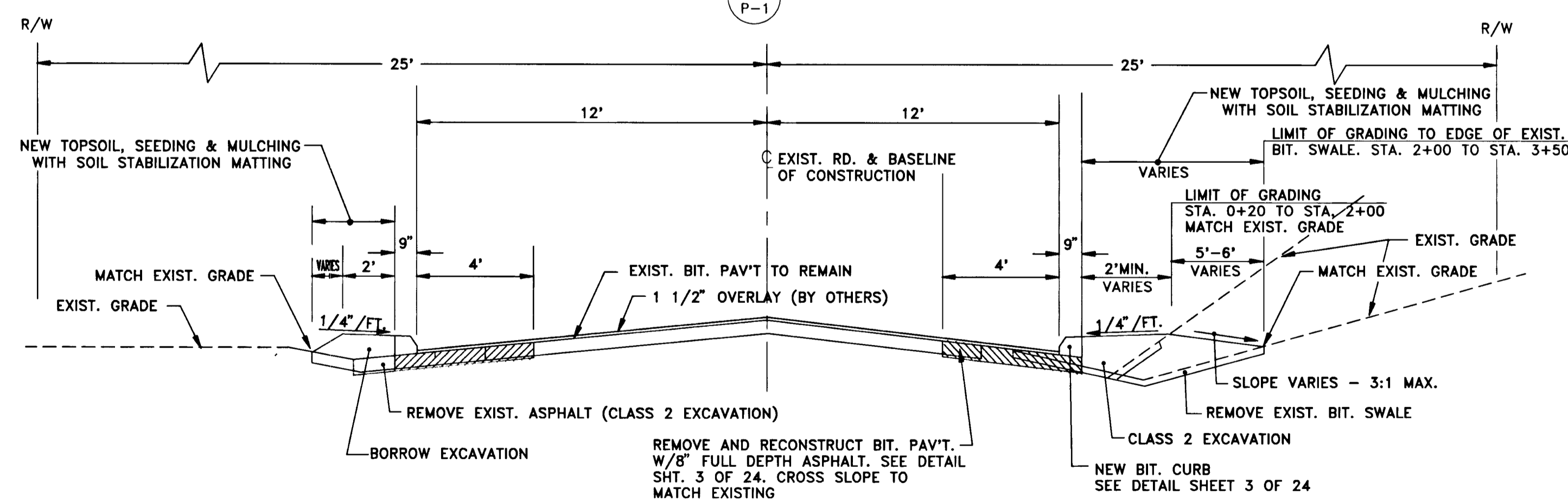
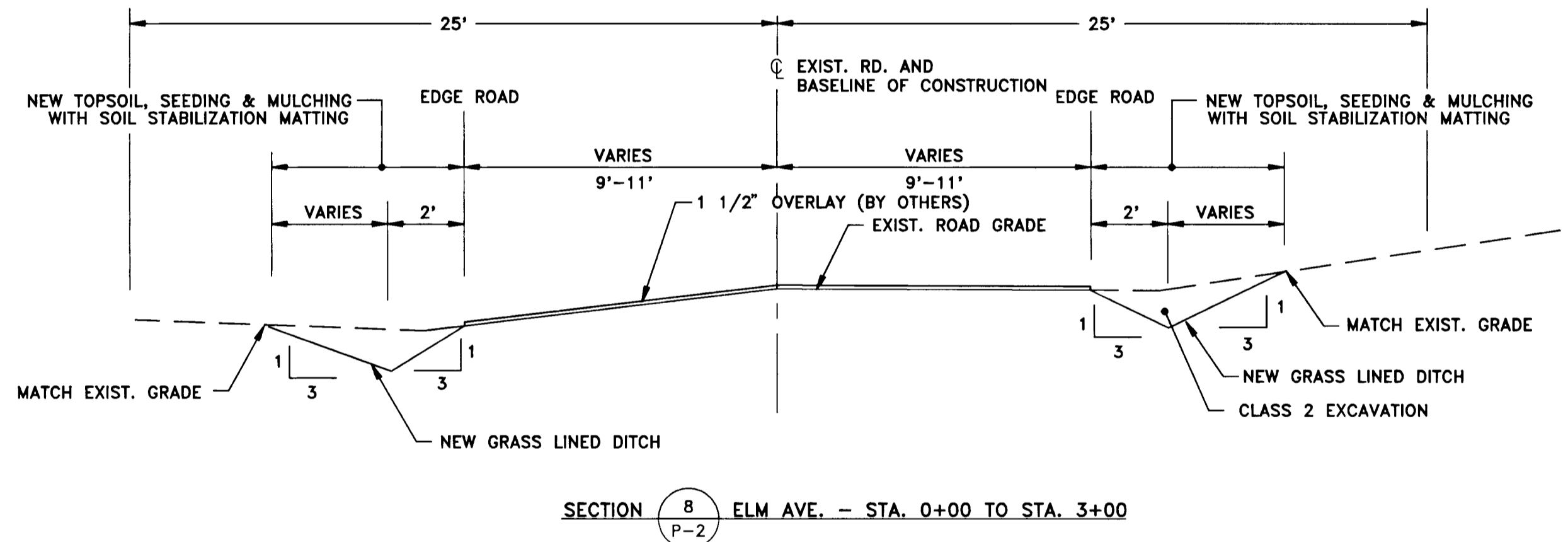
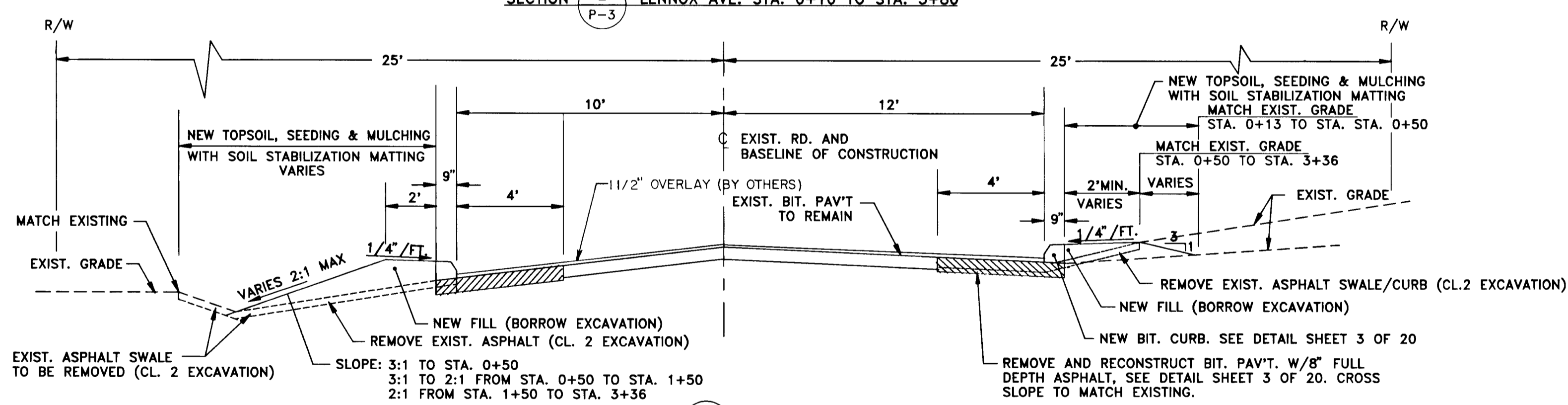
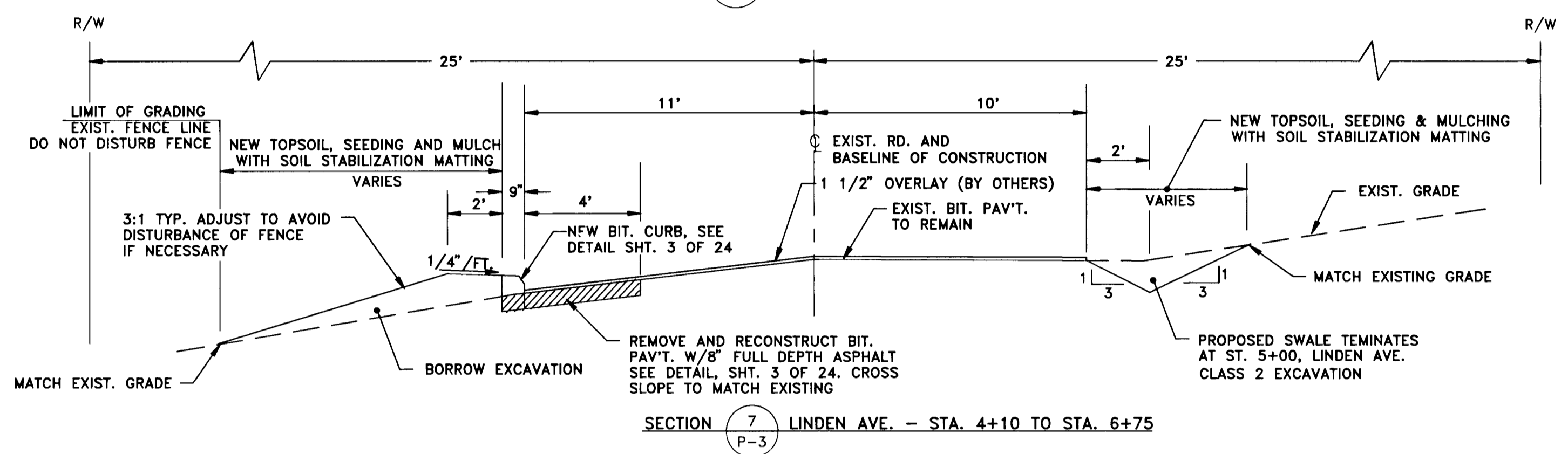
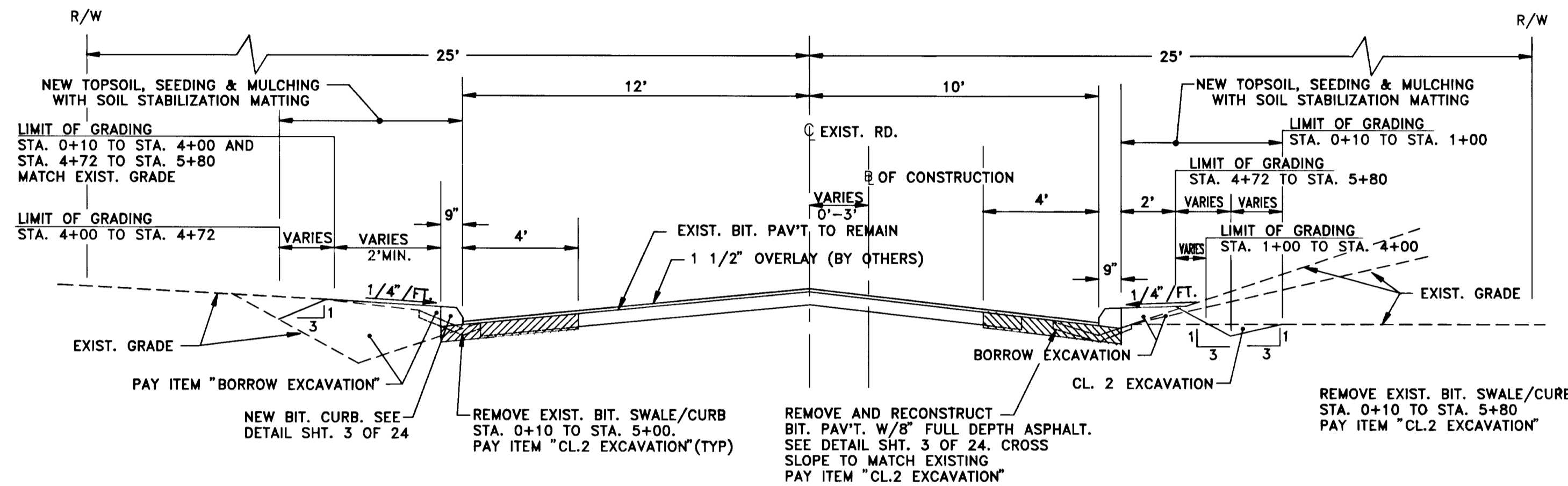
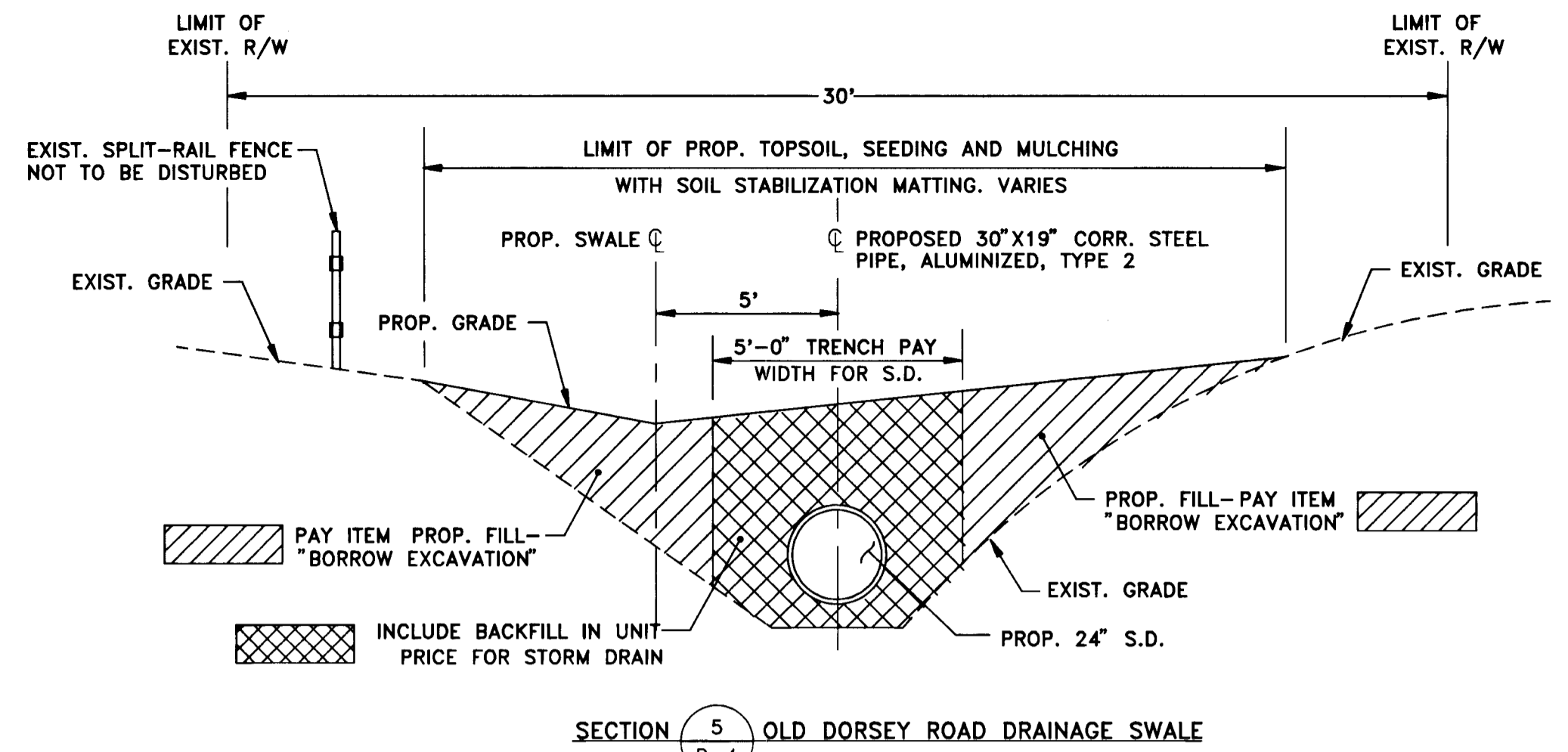
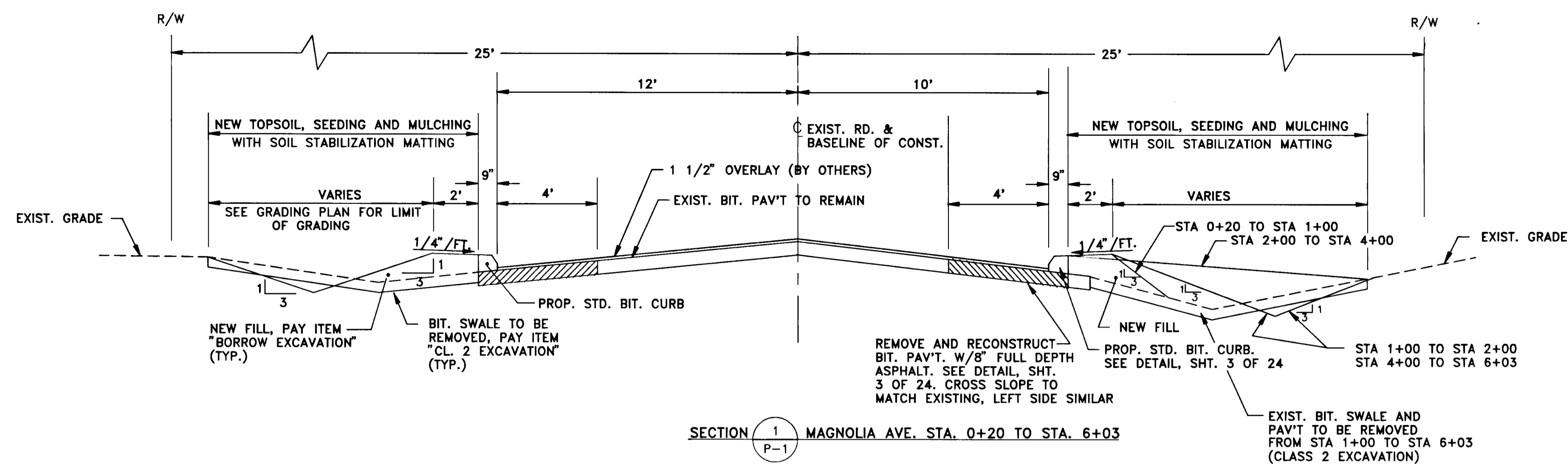
CERTIFICATION BY THE ENGINEER

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."

[Signature] 6/5/96
SIGNATURE - RICHARD D. PARKS, P.E. MD. LIC. # 11697 DATE

CAPITAL PROJECT NO. D-1100
LENNOX PARK
STORM DRAINAGE IMPROVEMENTS
TITLE SHEET AND GENERAL NOTES

SCALE NONE
SHEET 1 OF 24
DWG. NO. G-1



02/28/98 13752009

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

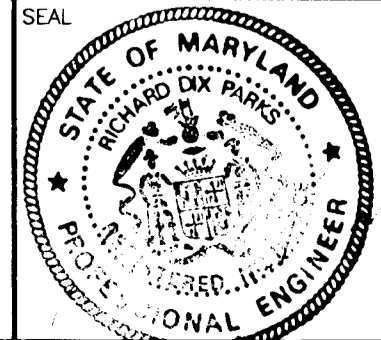
Pamela L. ...
DIRECTOR OF PUBLIC WORKS - DATE

Charles ...
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

John ...
CHIEF, BUREAU OF ENGINEERING - DATE

Charles ...
CHIEF, BUREAU OF HIGHWAYS - DATE

acer
Acer Engineers & Consultants, Inc.
201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES: R.D.P.					
DRN: A.C.M.					
CHK: R.D.P.					
DATE: 01/93					
BY: NO		REVISION		DATE	

LENNOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100

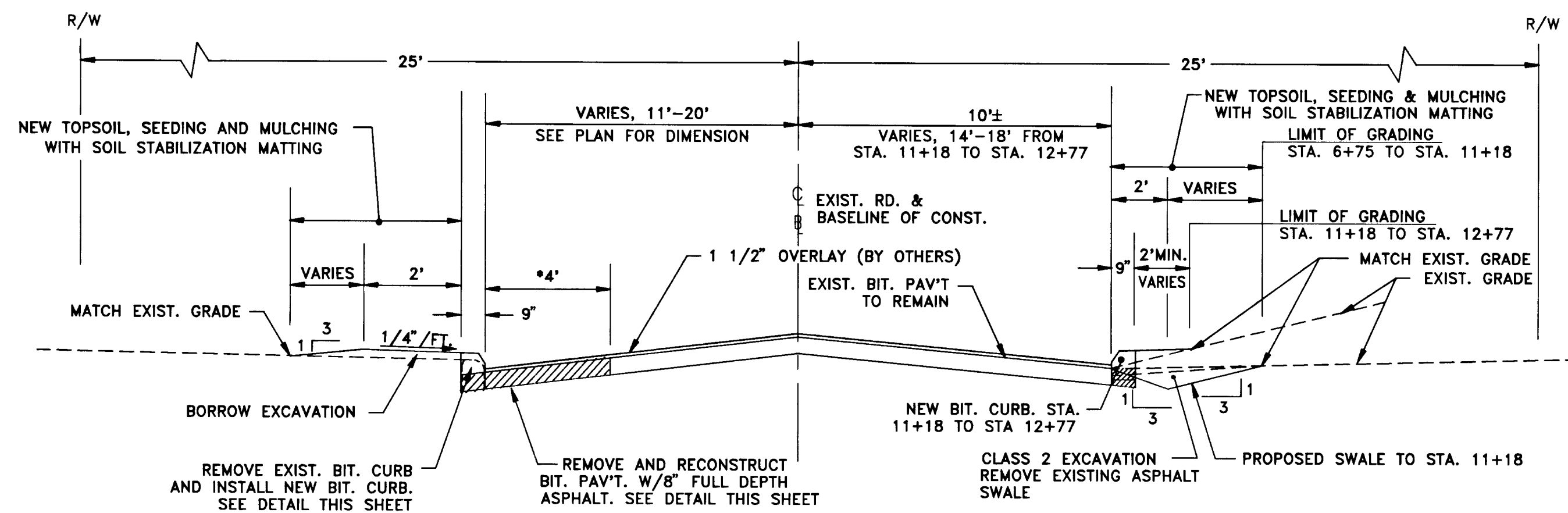
LENNOX PARK
STORM DRAINAGE IMPROVEMENTS

TYPICAL SECTIONS

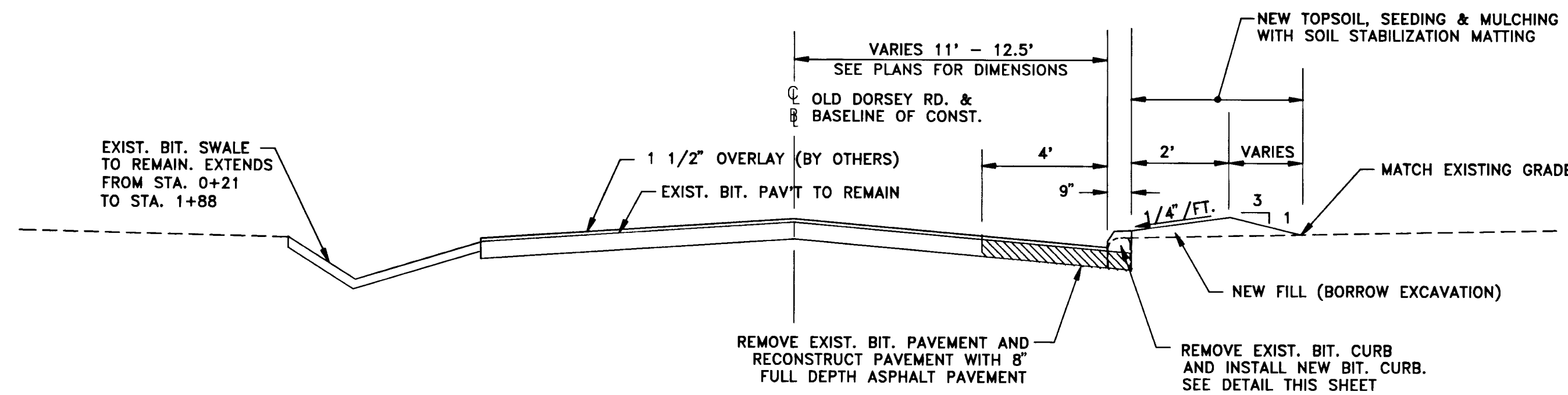
SCALE
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SHEET
2 OF 24

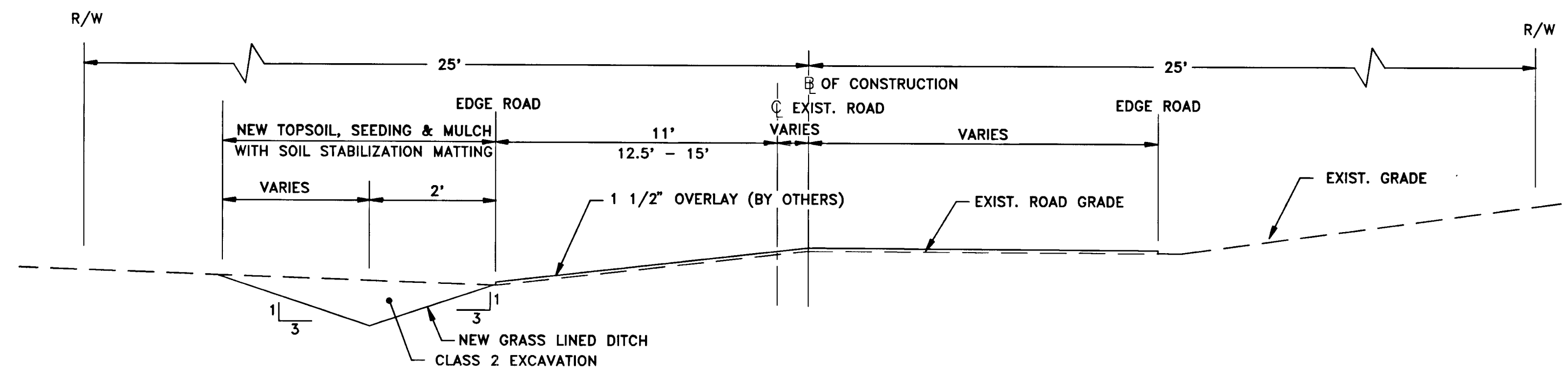
DWG. NO.
C-1



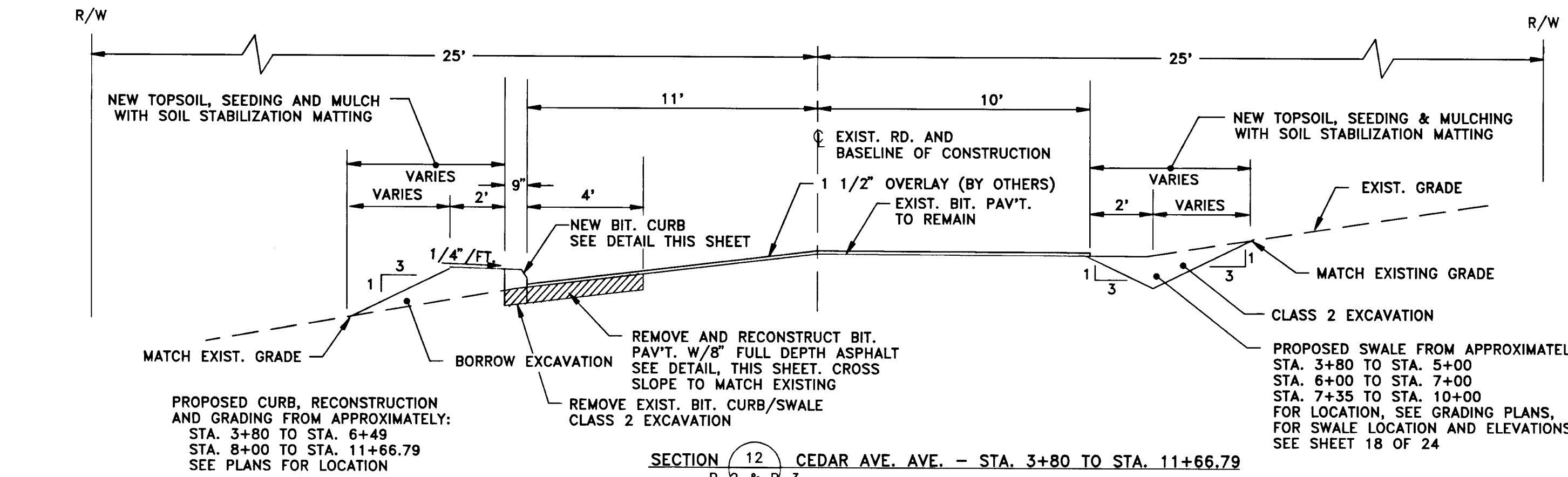
* 5' FROM STA. 8+25 TO STA. 11+57
SECTION 9 LINDEN AVE. STA. 6+75 TO STA. 12+77
P-4



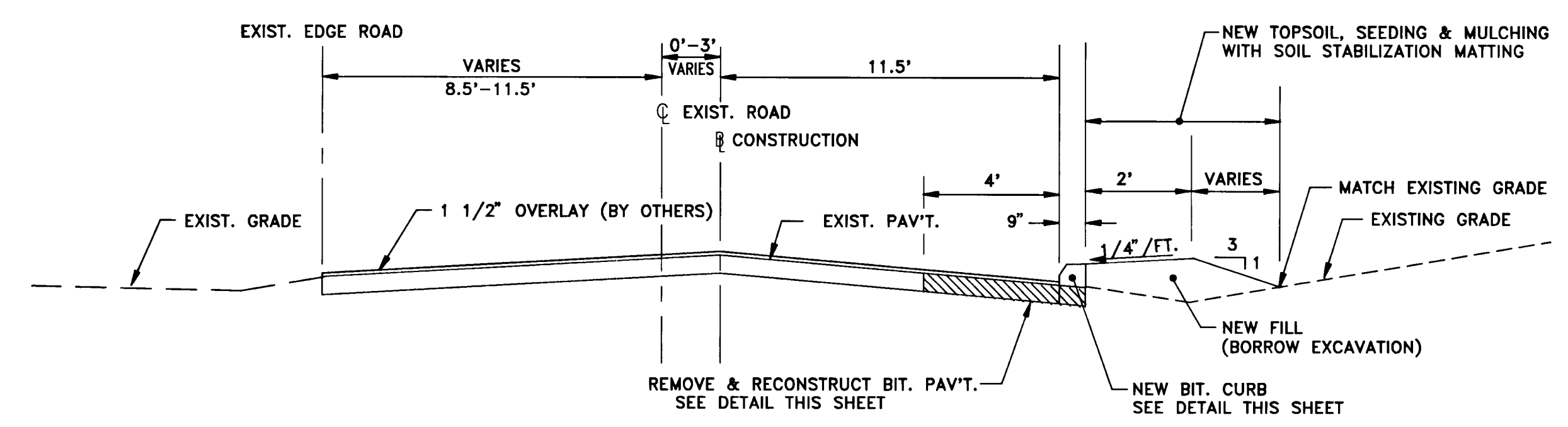
SECTION 10 OLD DORSEY RD. STA. 0+00 TO STA. 2+50
P-4



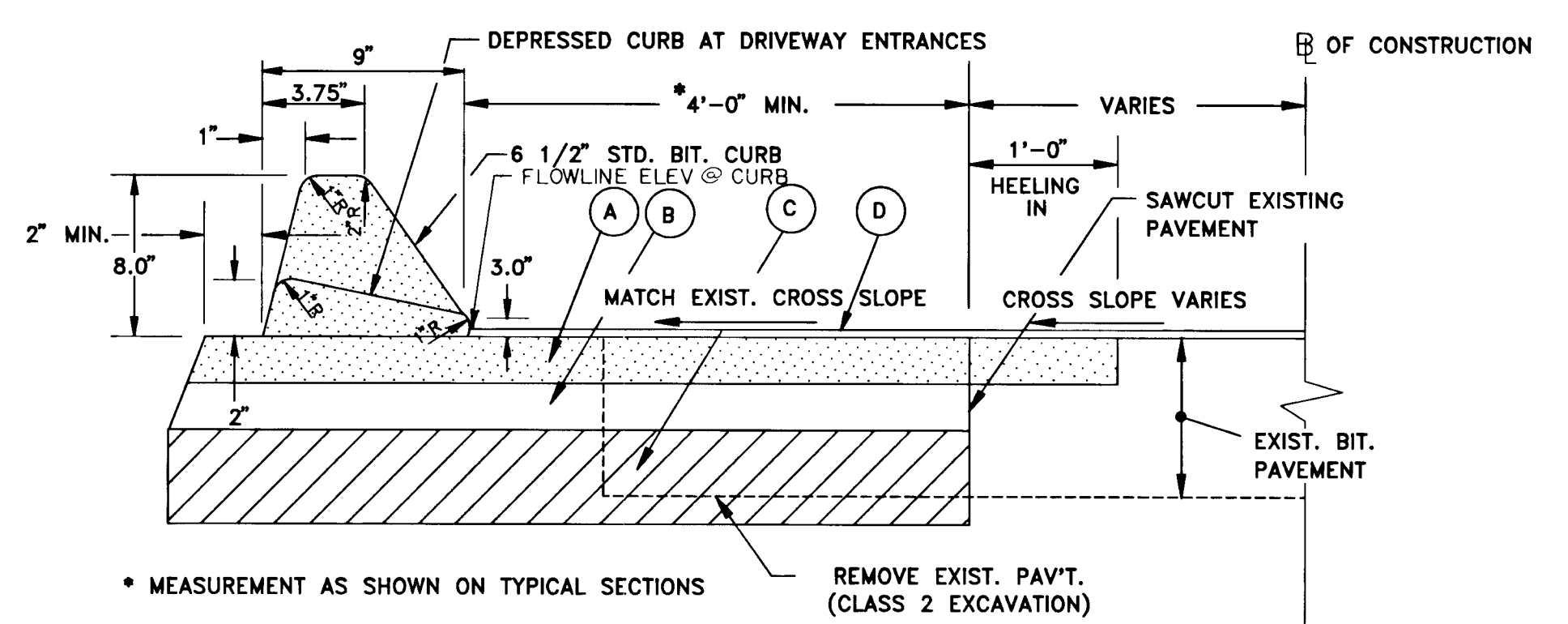
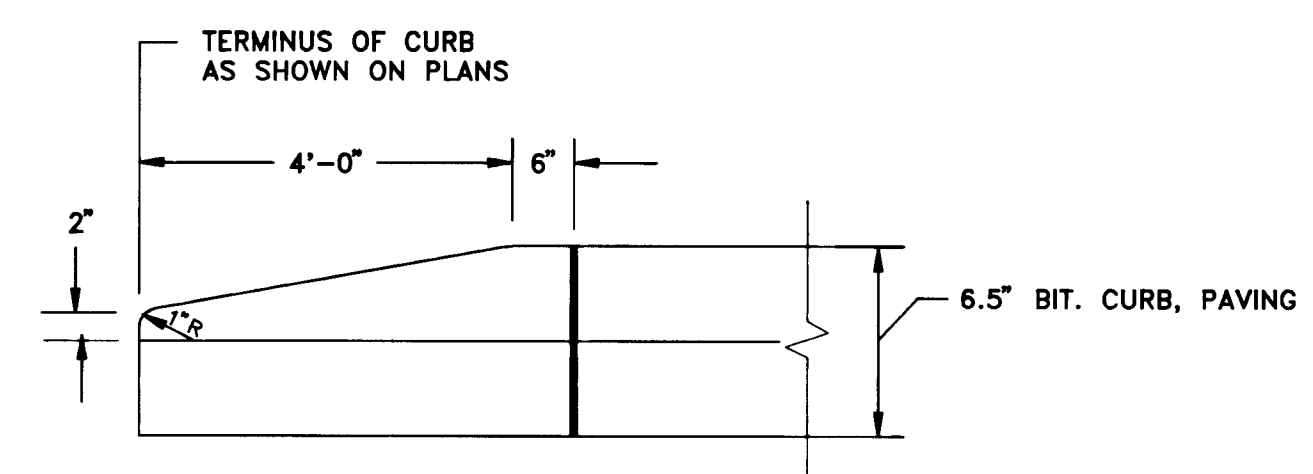
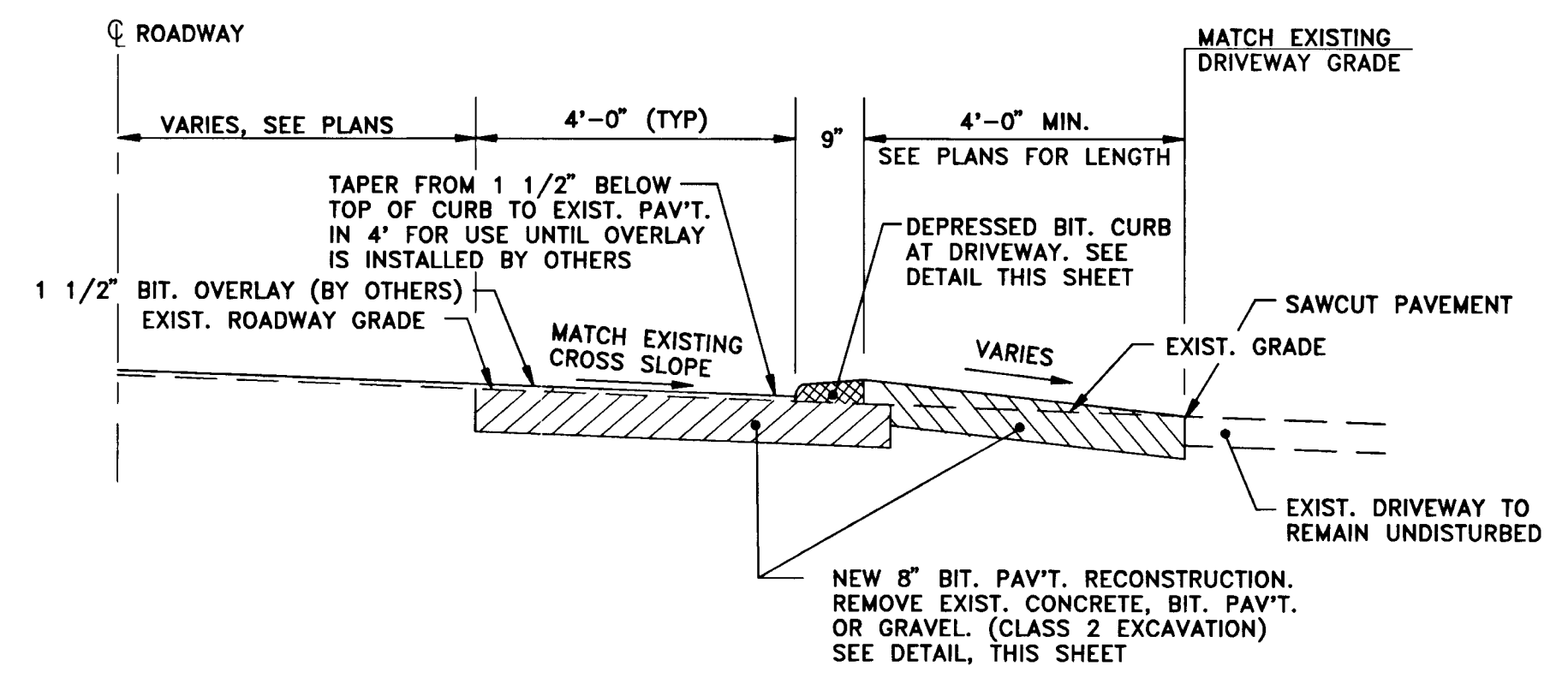
SECTION 11 LENNOX AVE. - STA. 6+25 TO STA. 8+00
P-1



SECTION 12 CEDAR AVE. AVE. - STA. 3+80 TO STA. 11+66.79
P-2 & P-3



SECTION 13 BALTIMORE AVE. STA. 3+45 TO STA. 5+08
P-4



- (A) 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE (SF)
- (B) 1 1/2" BITUMINOUS CONCRETE BASE COURSE (BI)
- (C) 5" BITUMINOUS CONCRETE CONCRETE BASE (BI)
- (D) 1 1/2" BITUMINOUS SURFACE COURSE OVERLAY (BY OTHERS UNDER SEPARATE CONTRACT)

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

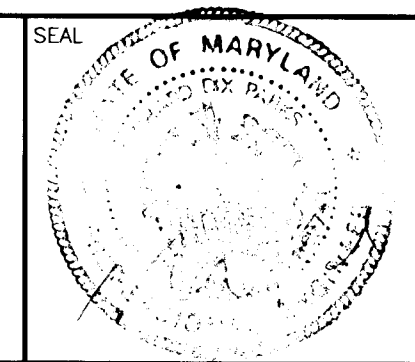
[Signature]
DIRECTOR OF PUBLIC WORKS - DATE

[Signature] 6/5/96
CHIEF, BUREAU OF ENGINEERING - DATE

[Signature] 6/14/96
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

[Signature] 6/10/96
CHIEF, BUREAU OF HIGHWAYS - DATE

acer
Acer Engineers & Consultants, Inc.
201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES: R.D.P.				
DRN: A.C.M.				
CHK: R.D.P.				
DATE: 01/93				
BY	NO	REVISION	DATE	

LENNOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100

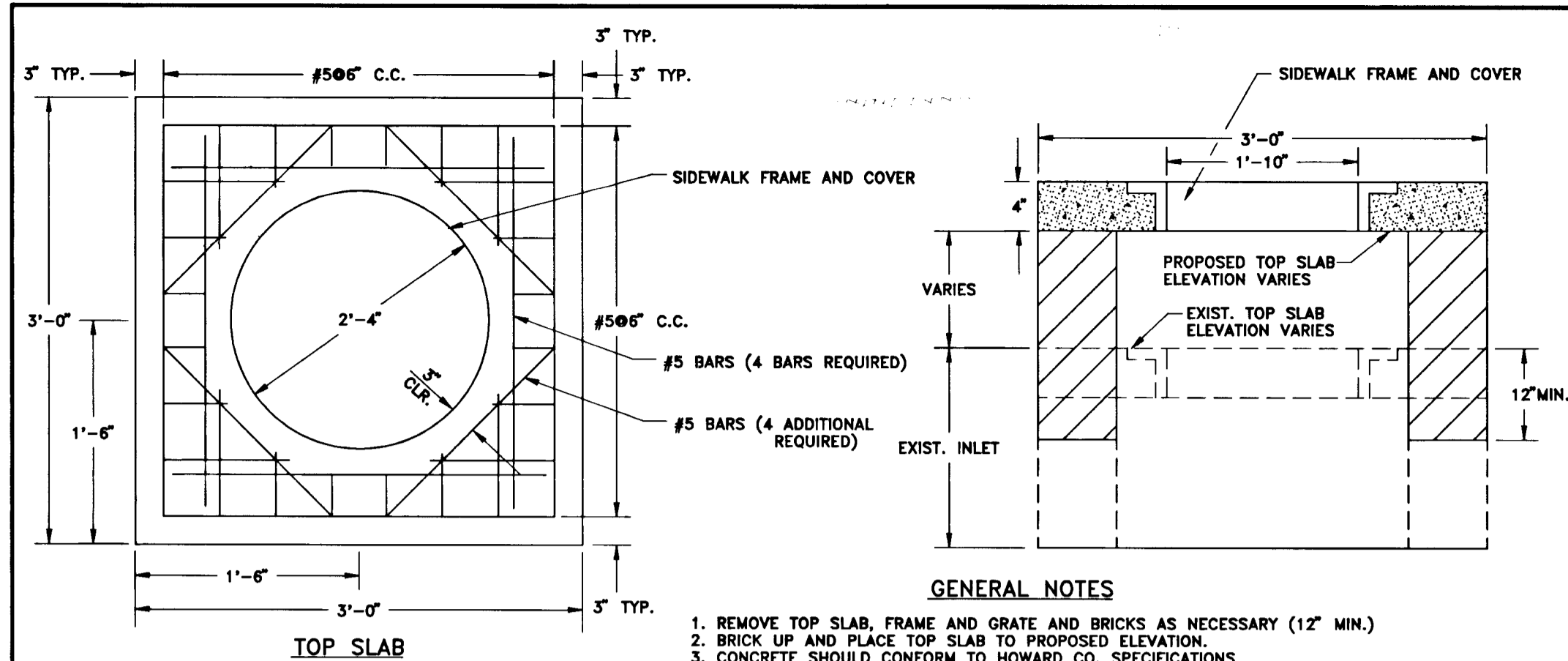
LENNOX PARK
STORM DRAINAGE IMPROVEMENTS

TYPICAL SECTIONS

SCALE NONE

SHEET 3 OF 24

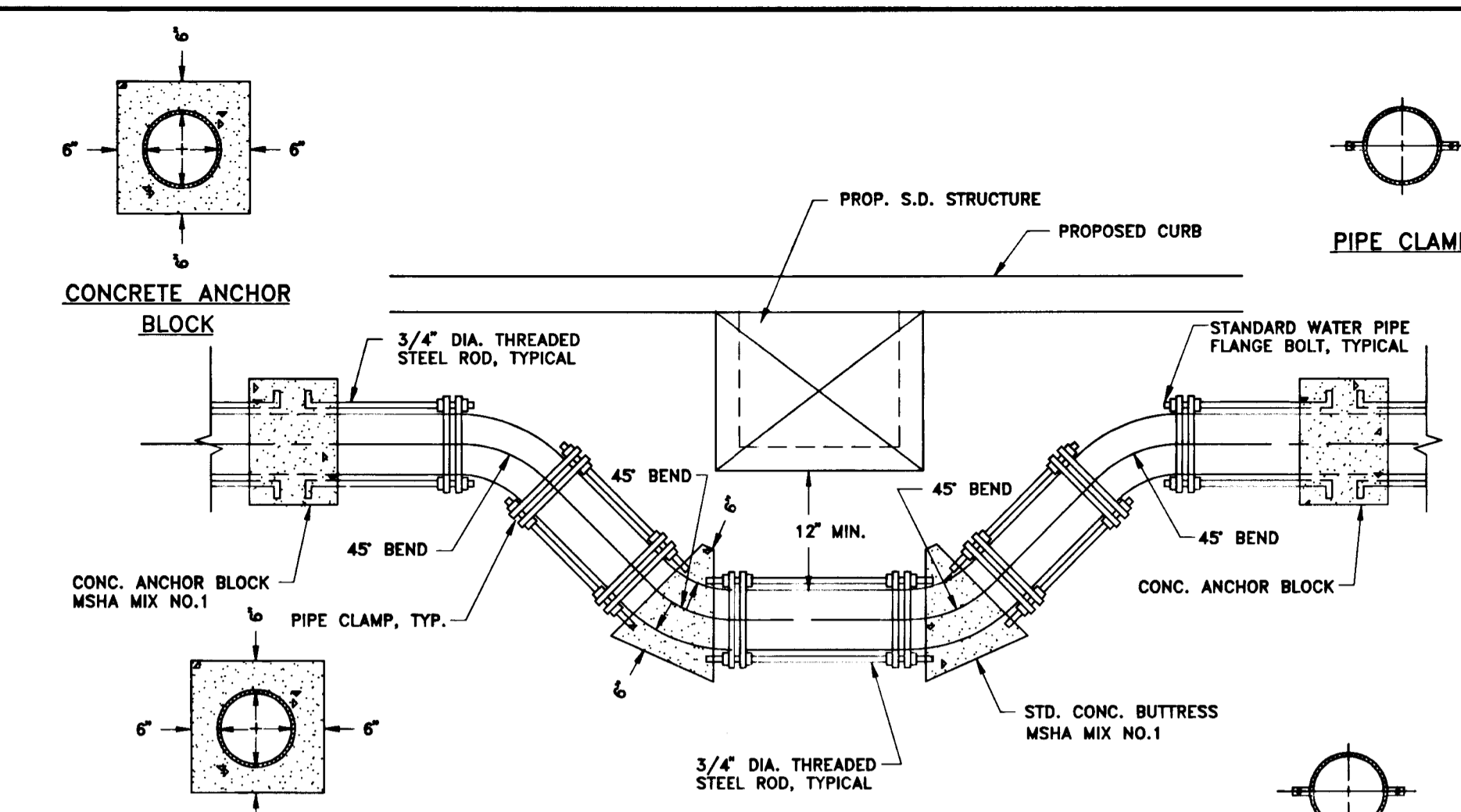
DWG. NO. C-2



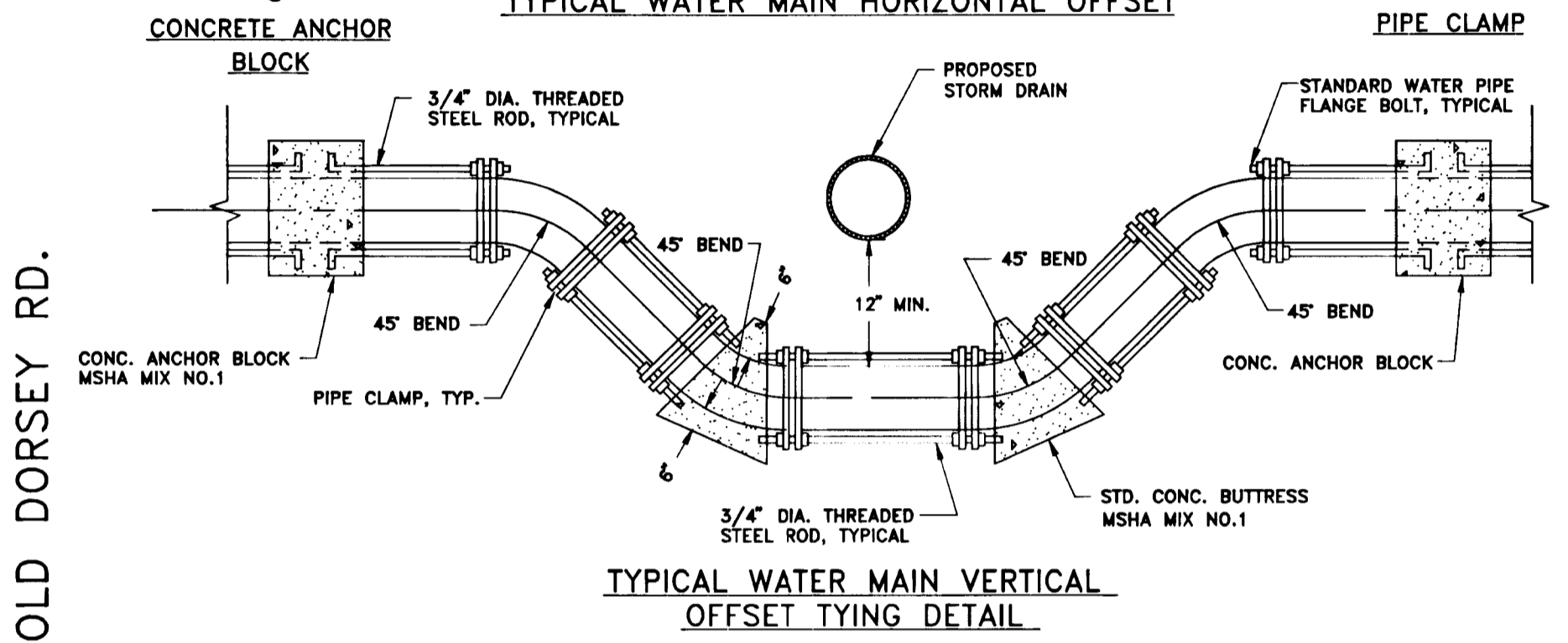
GENERAL NOTES

1. REMOVE TOP SLAB, FRAME AND GRATE AND BRICKS AS NECESSARY (12" MIN.)
2. BRICK UP AND PLACE TOP SLAB TO PROPOSED ELEVATION.
3. CONCRETE SHOULD CONFORM TO HOWARD CO. SPECIFICATIONS.
4. REINFORCING SHALL BE DEFORMED BARS (EPOXY COATED)
5. ALL MATERIALS TO CONFORM TO HOWARD CO. SPECIFICATIONS.

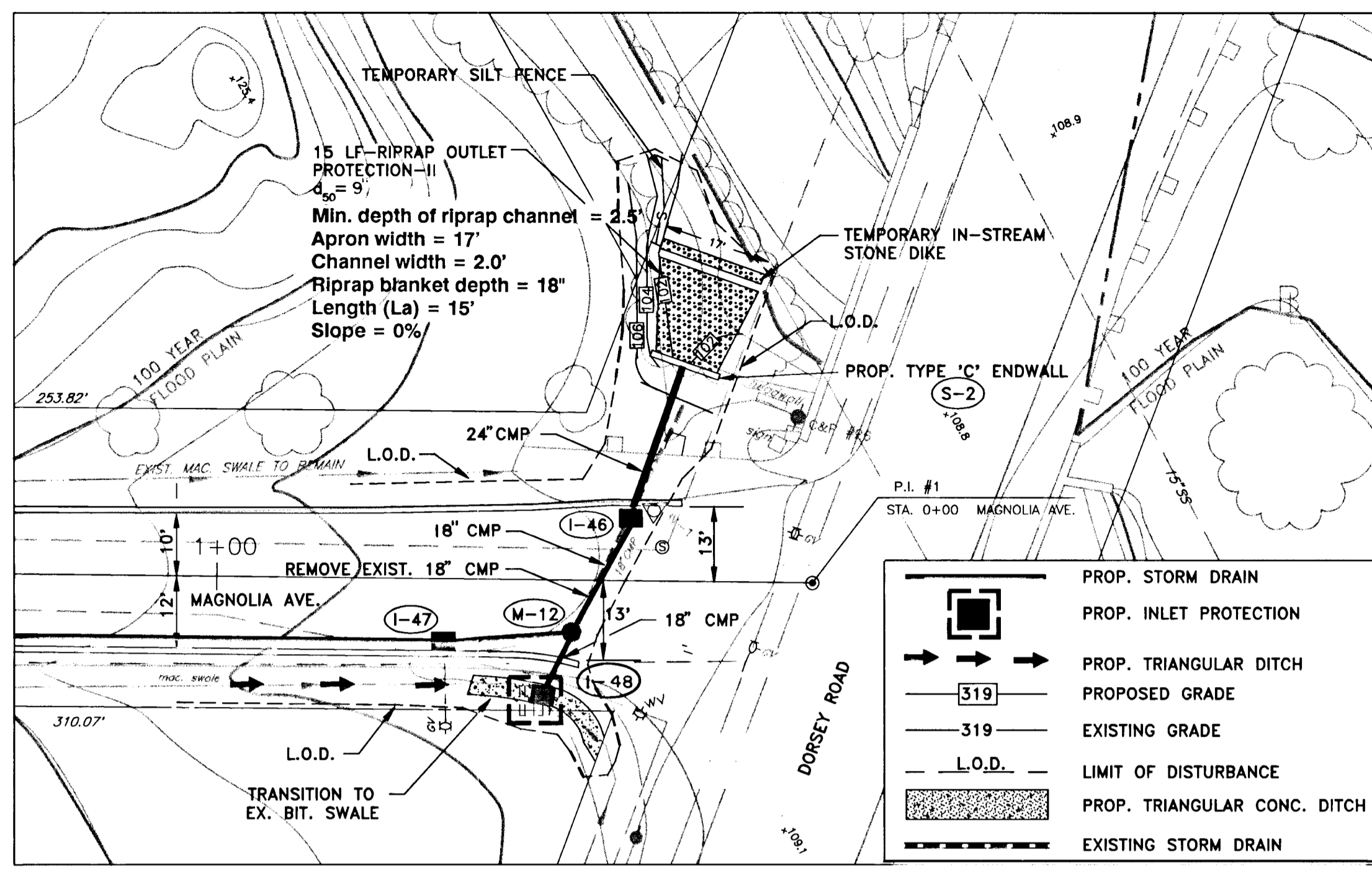
DETAIL - EXISTING INLET #51 CONVERSION TO MANHOLE



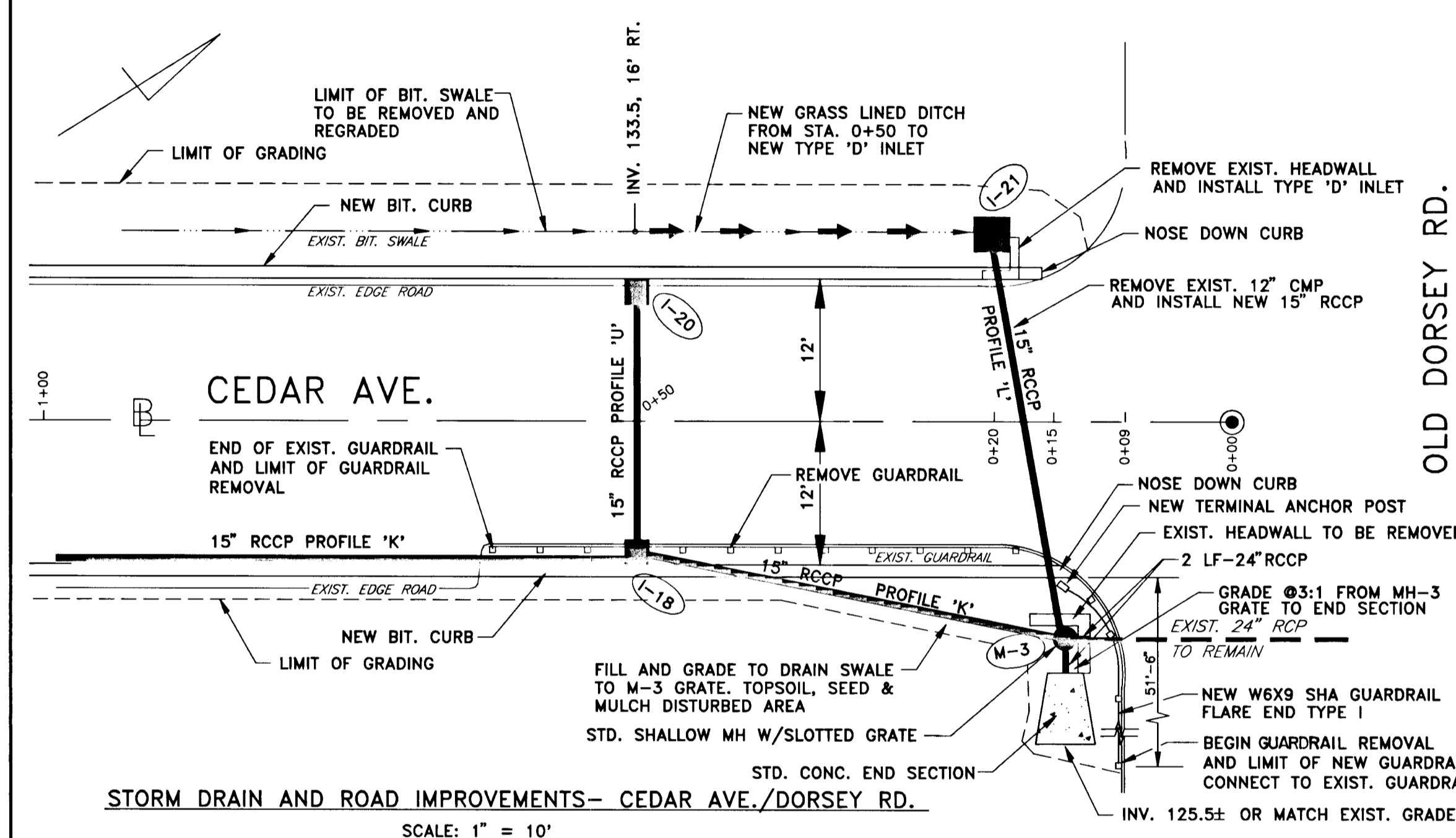
TYPICAL WATER MAIN HORIZONTAL OFFSET



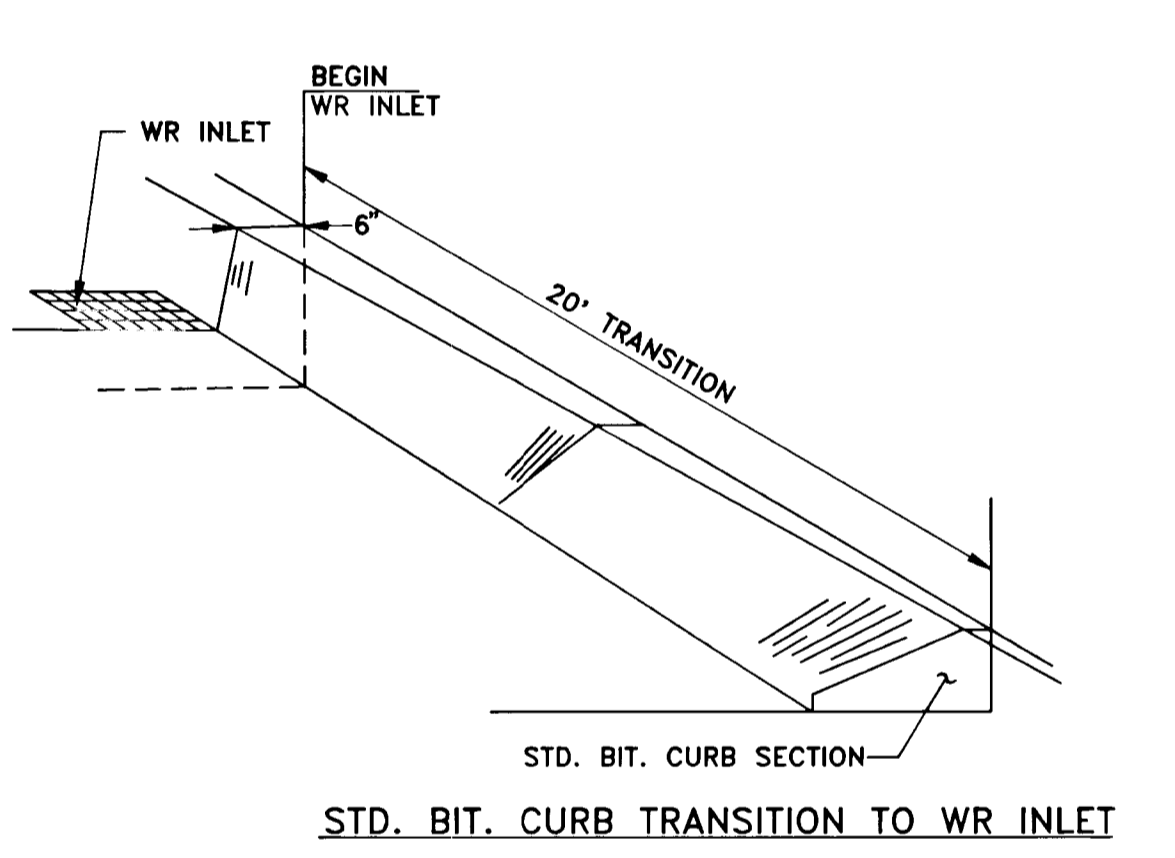
TYPICAL WATER MAIN VERTICAL OFFSET TYING DETAIL



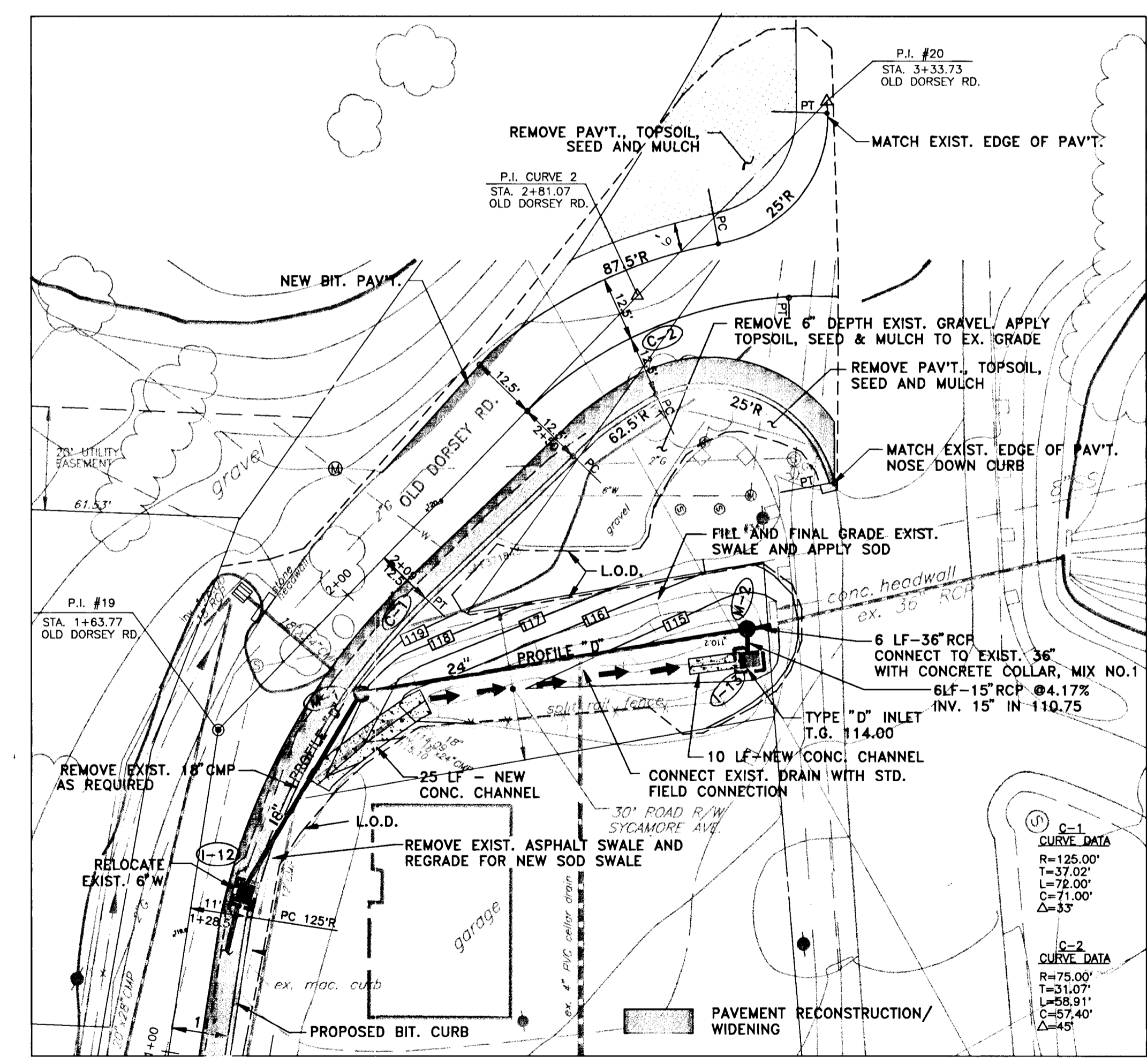
GRADING PLAN - DRAINAGE OUTFALL, MAGNOLIA AVE.
SCALE: 1" = 20'



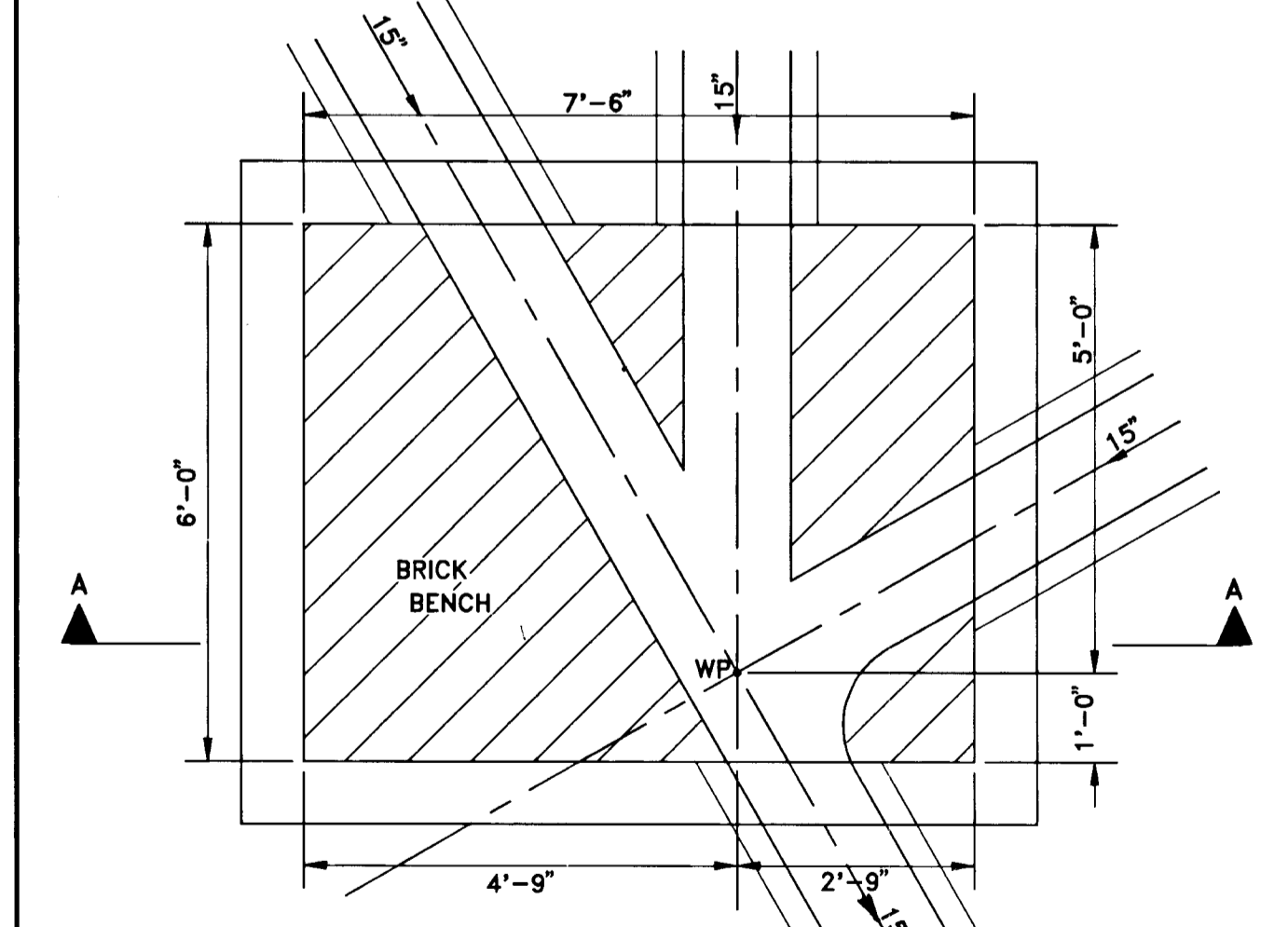
STORM DRAIN AND ROAD IMPROVEMENTS - CEDAR AVE./DORSEY RD.
SCALE: 1" = 10'



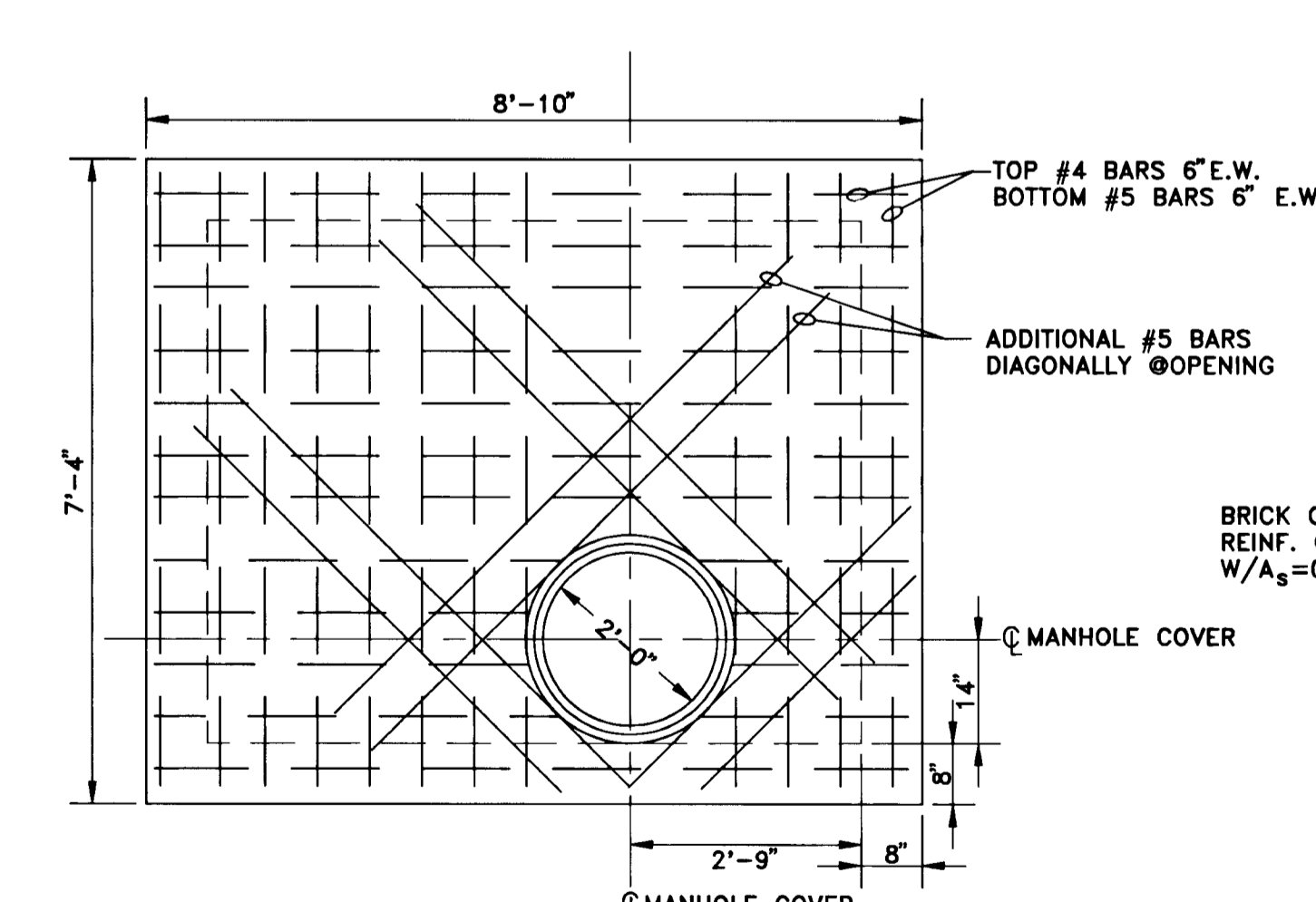
STD. BIT. CURB TRANSITION TO WR INLET



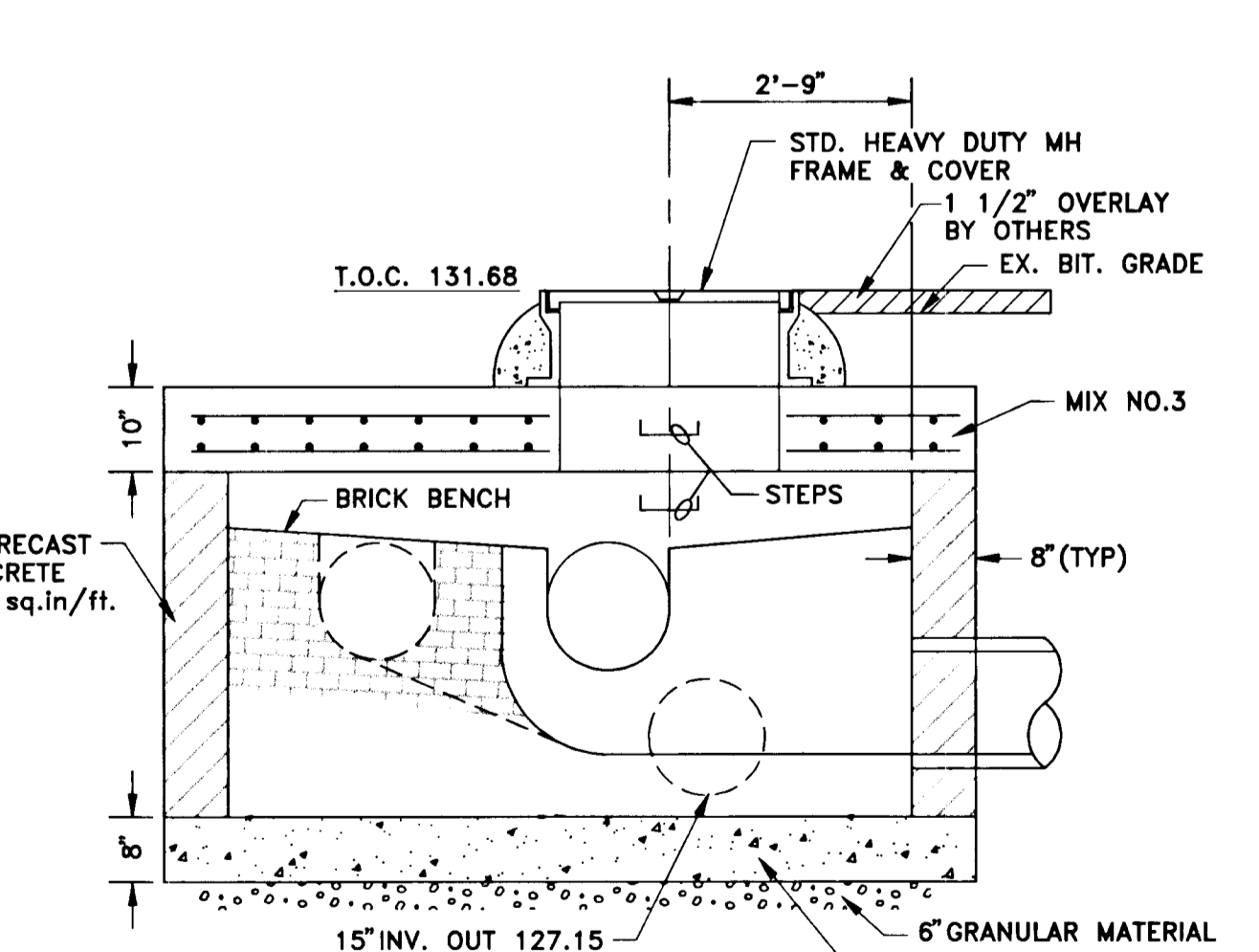
GRADING PLAN - OLD DORSEY ROAD REALIGNMENT AND DRAINAGE SWALE
SCALE: 1" = 20'



SPECIAL MANHOLE #14 - BOTTOM PLAN



TOP SLAB - MANHOLE #14



SECTION A-A - MANHOLE #14

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

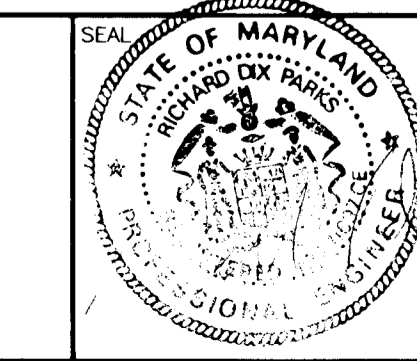
Carroll A. ...
DIRECTOR OF PUBLIC WORKS - DATE

Paul ...
CHIEF, BUREAU OF ENGINEERING - DATE

Christine ...
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

Christine ...
CHIEF, BUREAU OF HIGHWAYS - DATE

acer
Acer Engineers & Consultants, Inc.
201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES: R.D.P.			
DRN: A.C.M.			
CHK: R.D.P.			
DATE: 01/93			
BY	NO	REVISION	DATE

LENNOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100

LENNOX PARK
STORM DRAINAGE IMPROVEMENTS

MISC DETAILS

SCALE AS SHOWN

SHEET 4 OF 24

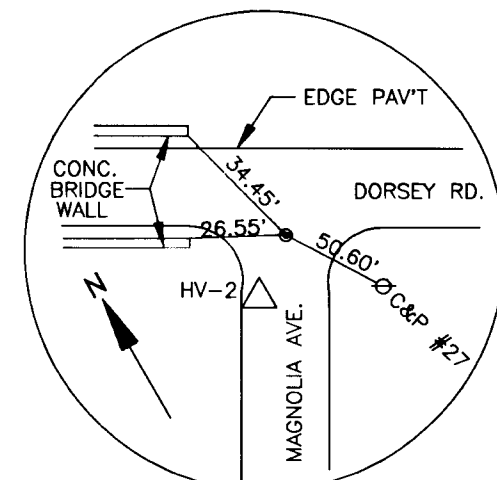
DWG. NO. C-1

TRAVERSE DATA

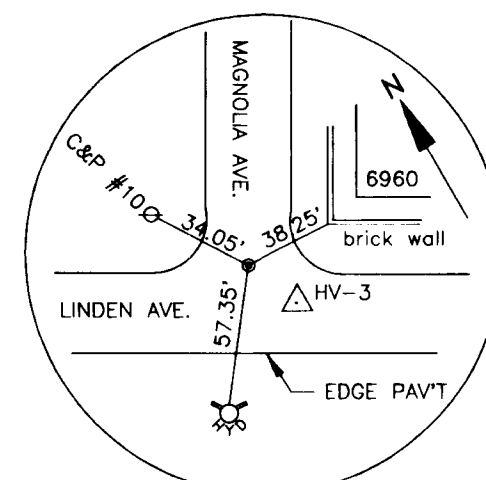
NUMBER	ELEVATION	DISTANCE	BEARING	COORDINATES		REMARKS
				NORTH	EAST	
2346004	123.401			489849.4996	871505.1138	CONC. MONUMENT, COUNTY BENCH MARK
2346005	129.960	778.01'	N 59° 34' 20" W	490243.5241	870834.2609	CONC. MONUMENT, COUNTY BENCH MARK
HV-2	130.00	8.72'	S 82° 13' 56" E	490242.3455	870842.9009	PK NAIL
HV-1	106.89	644.63'	N 43° 11' 25" W	490401.7009	870401.7009	PK NAIL
HV-3	154.75	585.50'	S 26° 44' 00" W	490189.4196	870138.3205	PK NAIL
HV-7	166.56	346.36'	S 28° 10' 00" W	489884.0761	869974.8254	PK NAIL
HV-5	189.06	375.13'	S 58° 29' 10" E	489687.9937	870294.6288	
HV-6	162.33	323.41'	S 71° 18' 10" E	489584.3191	870600.9711	PK NAIL
HV-8	137.42	420.06'	S 61° 35' 40" E	489334.4926	870970.4570	
HV-4	140.44	163.51'	S 86° 06' 35" E	489373.3991	871133.5902	
HV-9	131.63	282.93'	N 05° 22' 20" W	489655.0863	871107.1007	PK NAIL
HV-10	123.07	176.27'	N 51° 55' 00" E	489763.8109	871245.8453	
2346004	123.401	273.06'	N 71° 42' 40" E	489849.4996	871505.1138	CONC. MONUMENT, COUNTY BENCH MARK

BASELINE DATA

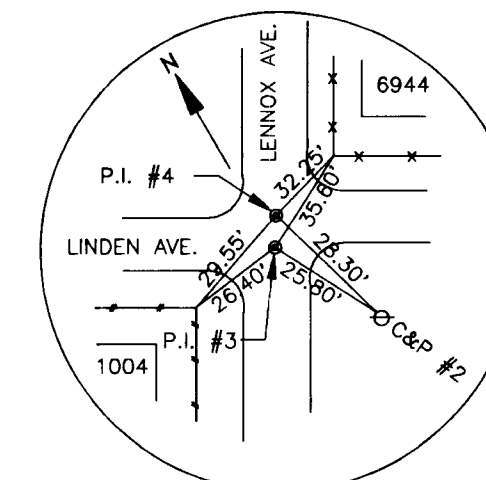
P.I. #	BEARING	DISTANCE	COORDINATES	
			NORTH	EAST
1			490731.388	870428.201
2	S 29° 39' 13" W	609.344	490201.849	870126.724
3	S 59° 10' 5" E	346.252	490024.387	870424.041
5			490447.961	870666.060
4	S 29° 44' 30" W	483.292	490028.332	870428.304
3	S 29° 49' 48" W	4.548	490024.387	870424.041
12	S 29° 45' 10" W	344.531	489725.273	870253.065
11	S 60° 31' 35" E	354.658	489550.774	870561.824
6			490179.772	870917.460
7	S 29° 29' 05" W	370.472	489857.281	870735.118
8	S 29° 46' 20" W	3.516	489854.229	870733.372
9	S 30° 24' 54" W	175.199	489703.141	870644.676
10	S 28° 33' 02" W	110.611	489605.981	870591.811
11	S 28° 30' 36" W	62.826	489550.774	870561.824
13	S 28° 32' 53" W	444.162	489160.615	870349.561
4			490028.332	870426.304
8	S 60° 26' 51" E	352.991	489854.229	870733.372
7			489857.281	870735.118
17	S 60° 19' 48" E	476.215	489621.553	871148.896
16	S 60° 21' 26" E	123.436	489560.503	871256.177
15	S 31° 28' 31" W	186.662	489401.305	871158.715
14	N 87° 31' 21" W	215.892	489410.637	870943.025
10	N 60° 55' 02" W	401.684	489605.981	870591.811
20			490065.638	871075.774
19	S 16° 44' 57" E	169.959	489902.890	871124.753
18	S 52° 16' 31" E	163.768	489802.686	871254.288
17	S 30° 11' 34" W	209.562	489621.553	871148.896



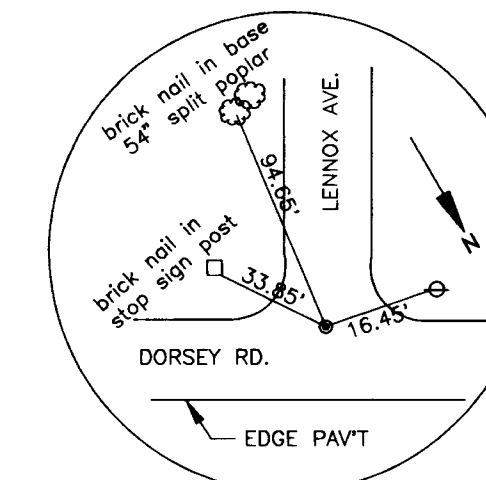
P.I. #1
STA. 0+00 @ MAGNOLIA AVE.



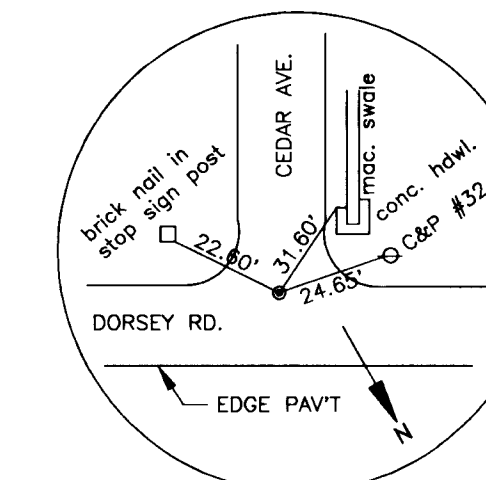
P.I. #2
STA. 6+09.34 @ MAGNOLIA AVE.=
STA. 0+00 @ LINDEN AVE.



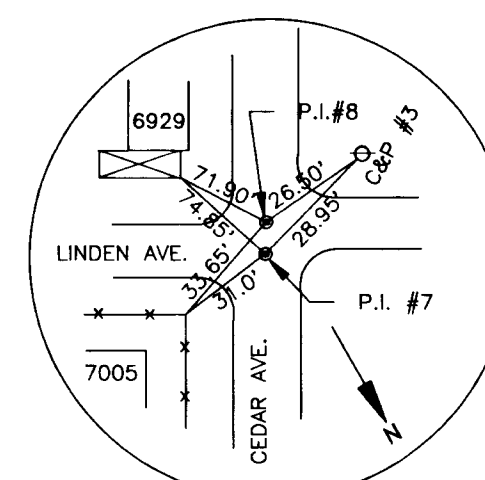
P.I. #3 AND P.I. #4
STA. 4+87.84 @ LENNOX AVE.=
STA. 3+46.25 @ LINDEN AVE.=
STA. 4+83.29 @ LENNOX AVE.=
STA. 3+50.80 @ LINDEN AVE.



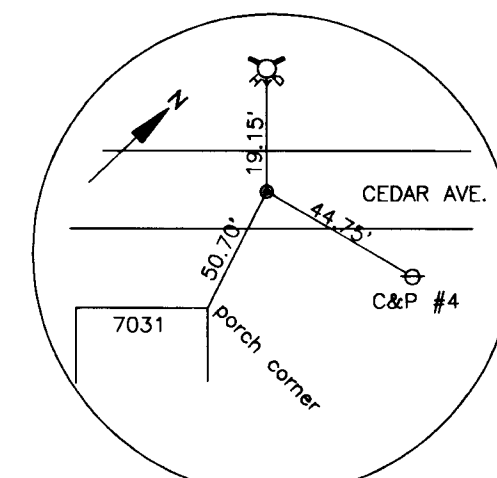
P.I. #5
STA. 0+00 @ LENNOX AVE.



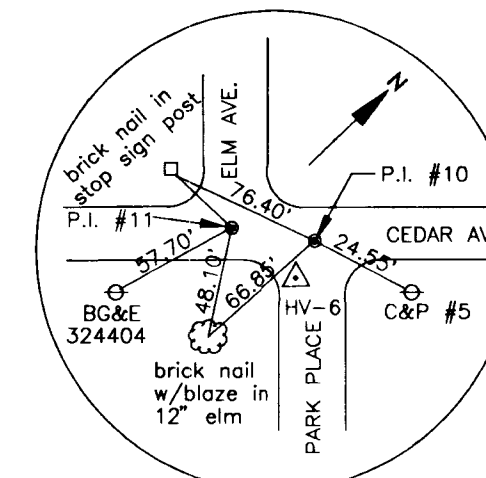
P.I. #6
STA. 0+00 @ CEDAR AVE.



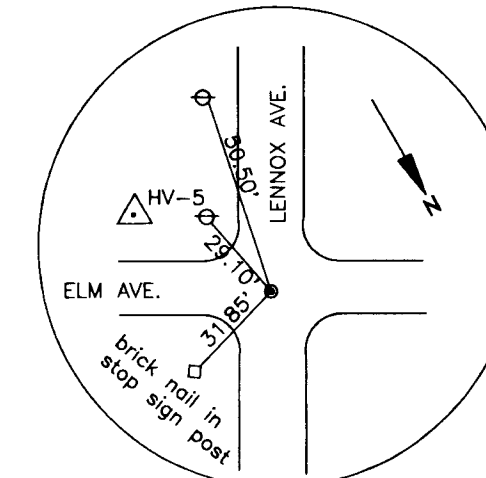
P.I. #7 AND P.I. #8
STA. 3+70.47 @ CEDAR AVE.=
STA. 7+07.31 @ LINDEN AVE.=
STA. 3+73.99 @ CEDAR AVE.=
STA. 7+03.79 @ LINDEN AVE.



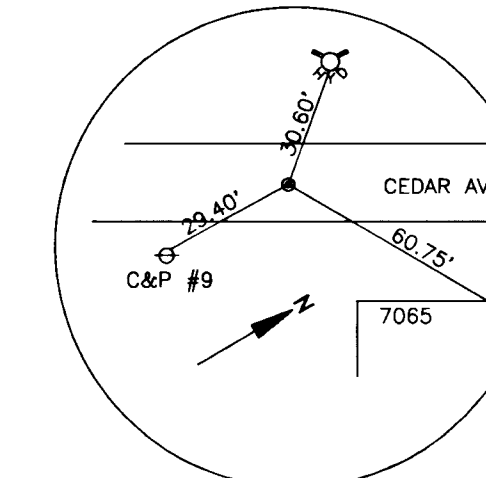
P.I. #9
STA. 5+49.19 @ CEDAR AVE.



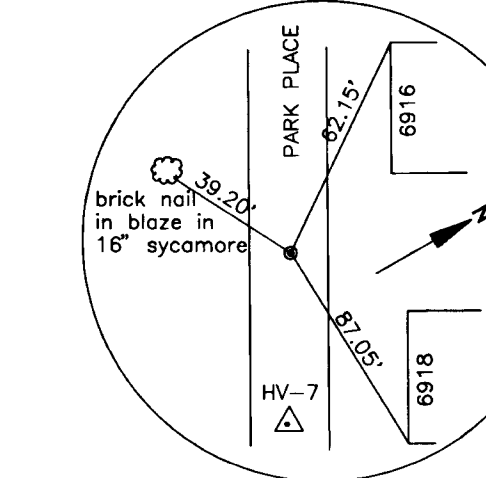
P.I. #11 AND P.I. #10
STA. 7+22.62 @ CEDAR AVE.=
STA. 0+00 @ ELM AVE.=
STA. 6+59.80 @ CEDAR AVE.=
STA. 0+00 @ PARK PLACE



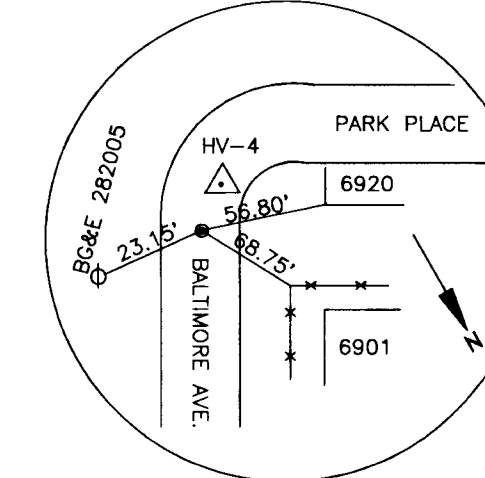
P.I. #12
STA. 3+54.66 @ ELM AVE.=
STA. 8+32.37 @ LENNOX AVE.



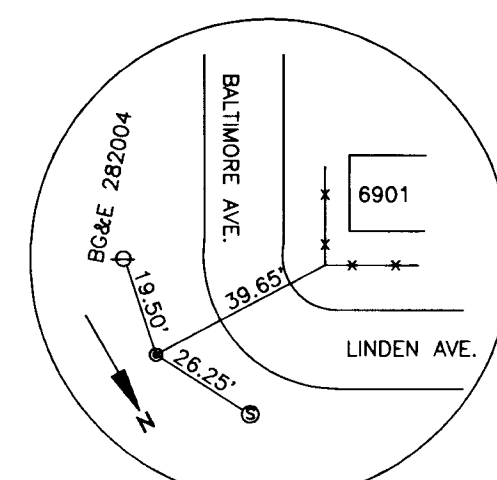
P.I. #13
STA. 11+66.79 @ CEDAR AVE.



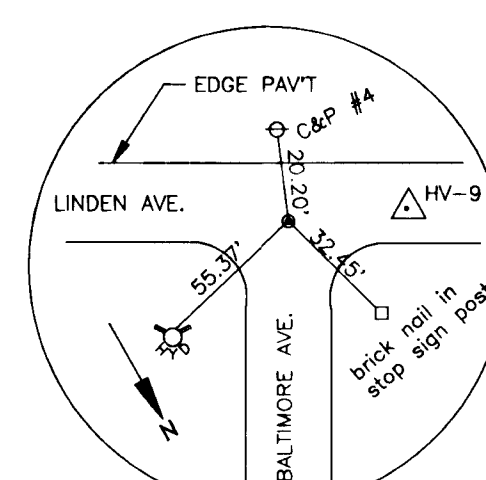
P.I. #14
STA. 4+01.88 @ PARK PLACE



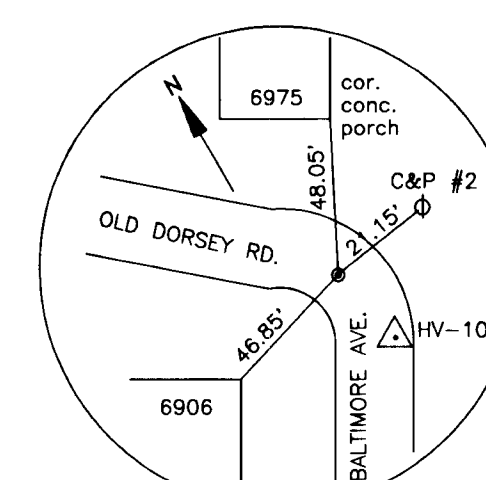
P.I. #15
STA. 1+86.66 @ BALTIMORE AVE.



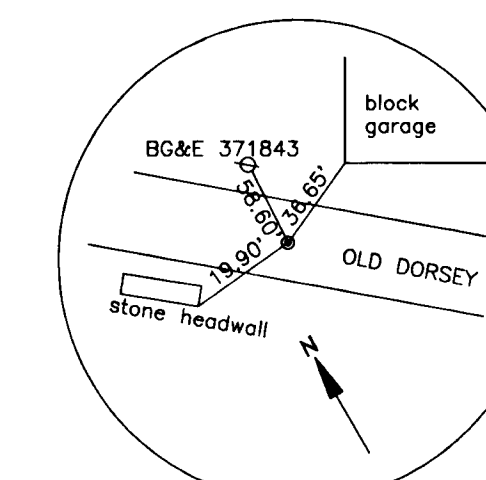
P.I. #16
STA. 0+00 @ BALTIMORE AVE.=
STA. 13+06.96 @ LINDEN AVE.



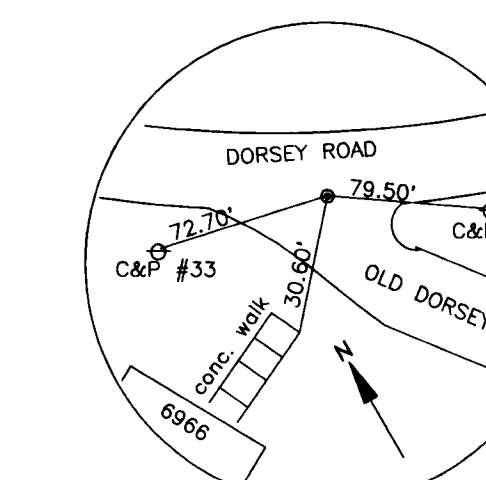
P.I. #17
STA. 3+10.10 @ BALTIMORE AVE.=
STA. 11+83.52 @ LINDEN AVE.



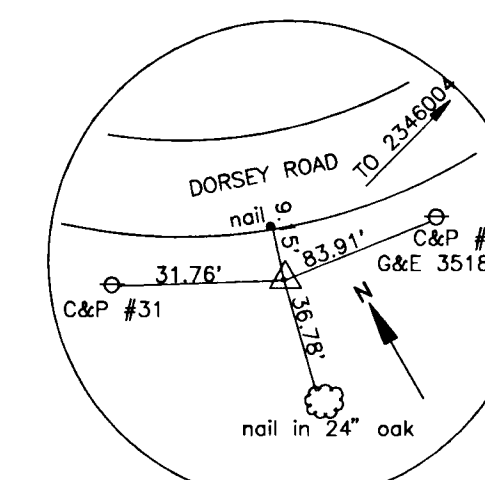
P.I. #18
STA. 5+19.66 @ BALTIMORE AVE.=
STA. 0+00 @ OLD DORSEY RD.



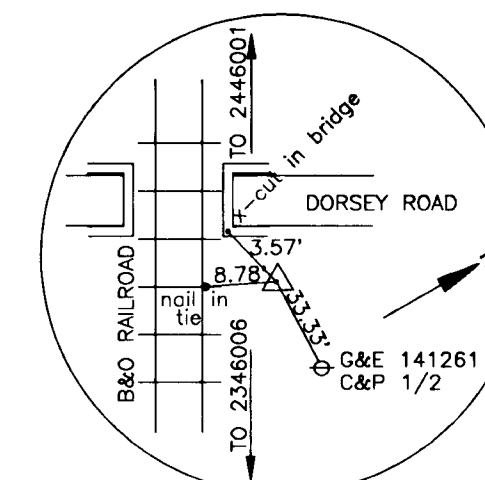
P.I. #19
STA. 1+63.77 @ OLD DORSEY RD.



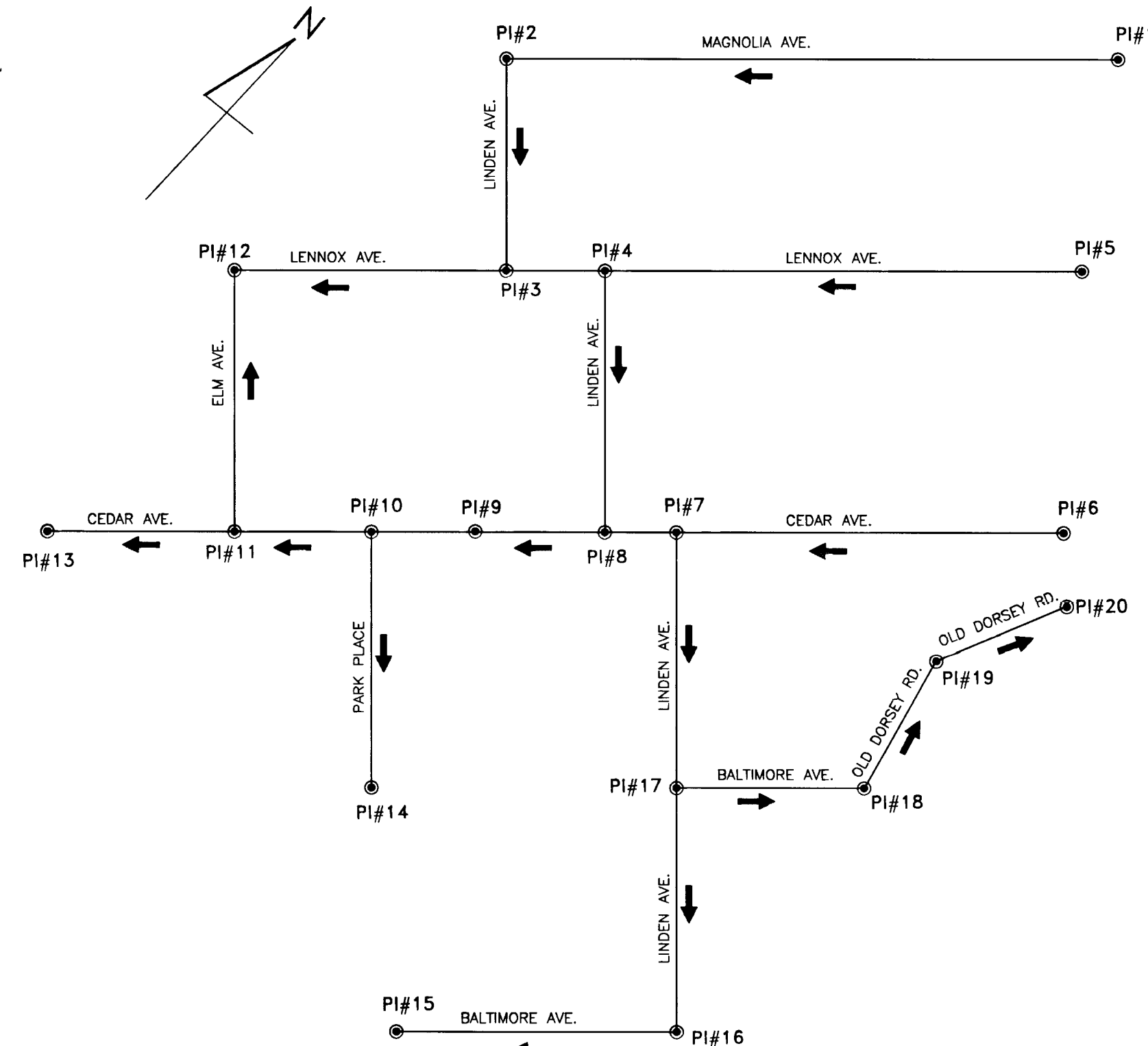
P.I. #20
STA. 3+33.73 @ OLD DORSEY RD.



COUNTY BENCH MARK
#2346005
ELEV. 129.96



COUNTY BENCH MARK
#2346004
ELEV. 123.40



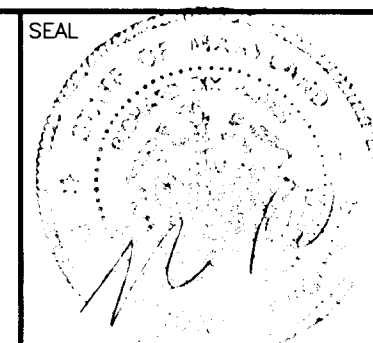
BASELINE OF CONSTRUCTION SCHEMATIC
N.T.S.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Camille A. ...
DIRECTOR OF PUBLIC WORKS - DATE
Elizabeth Anderson ...
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

Robert ...
CHIEF, BUREAU OF ENGINEERING - DATE
Michael ...
CHIEF, BUREAU OF HIGHWAYS - DATE

acer
Acer Engineers & Consultants, Inc.
201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES: R.D.P.
DRN: A.C.M.
CHK: R.D.P.
DATE: 01/93

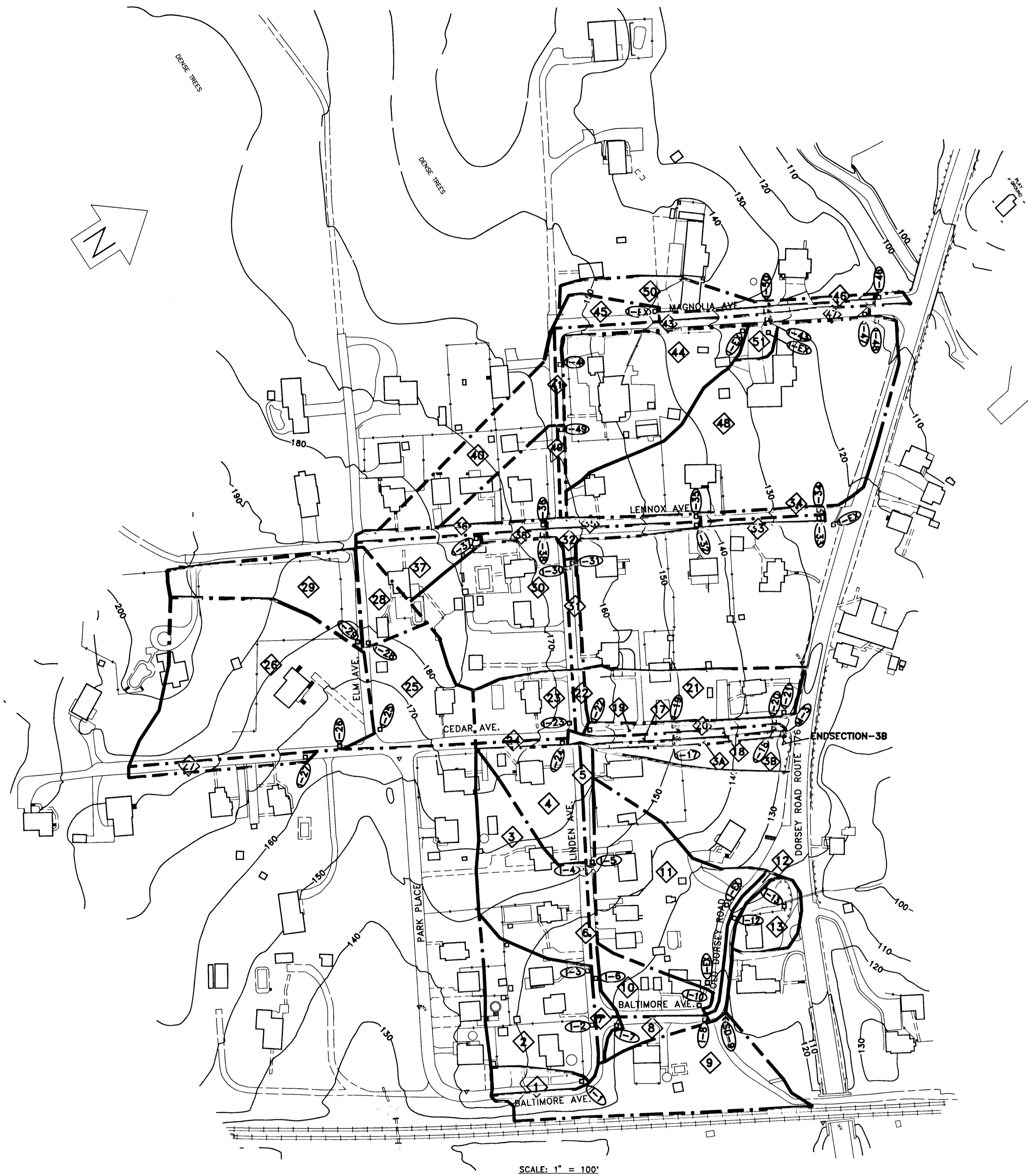
BY	NO	REVISION	DATE

LENNOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100
LENNOX PARK
STORM DRAINAGE IMPROVEMENTS
SURVEY CONTROL DATA

SCALE
NONE
SHEET
5 OF 24
DWG. NO.
C-4



STORM DRAINAGE DATA

AREA NO.	DRAINAGE AREA (ACRES)	COMPOSITE 'C' FACTOR	Tc(MIN)	I ₁₀ (IN./HR.)	Q ₁₀ (CFS)	
1	'D' INLET	0.12	0.60	5	8.5	0.61
2	WR INLET	0.45	0.36	12	6.1	1.00
3	'D' INLET	1.20	0.34	14	5.6	2.28
4	'D' INLET	0.35	0.38	13	5.8	0.77
5	WR INLET	0.05	0.87	5	8.5	0.37
6	WR INLET	0.05	0.87	5	8.5	0.37
7	WR INLET	0.07	0.87	5	8.5	0.52
8	WR INLET	0.10	0.60	5	8.5	0.51
9	'E' HEADWALL	1.00	0.32	18	5.0	1.60
10	'D' INLET	0.25	0.32	15	5.4	0.40
11	EXIST. WR	1.25	0.32	13	5.8	2.32
12	WR INLET	0.08	0.87	5	8.5	0.59
13	'D' INLET	0.12	0.32	6	8.2	0.31
17	WR INLET	0.08	0.66	5	8.5	0.45
18	WR INLET	0.08	0.66	5	8.5	0.45
19	WR INLET	0.06	0.87	5	8.5	0.44
20	WR INLET	0.06	0.87	5	8.5	0.44
21	'D' INLET	0.15	0.32	13	5.8	0.28
22	WR INLET	0.04	0.87	5	8.5	0.30
23	'D' INLET	0.40	0.44	13	5.8	1.02
24	WR INLET	0.04	0.87	5	8.5	0.30
25	'D' INLET	0.60	0.38	10	6.6	1.50
26	'D' INLET	1.60	0.36	14	5.6	3.23
27	WR INLET	0.08	0.87	5	8.5	0.59
28	'D' INLET	0.20	0.43	8	7.2	0.62
29	'D' INLET	0.60	0.34	15	5.4	1.10
30	'D' INLET	1.20	0.32	15	5.8	2.23
31	WR INLET	0.05	0.87	5	8.5	0.37
32	WR INLET	0.15	0.58	5	8.5	0.74
33	WR INLET	0.35	0.42	5	8.5	1.25
34	WR INLET	0.06	0.87	5	8.5	0.44
35	WR INLET	0.08	0.87	5	8.5	0.59
36	WR INLET	0.10	0.87	5	8.5	0.74
37	'D' INLET	0.22	0.45	9	6.8	0.67
38	WR INLET	0.04	0.87	5	8.5	0.30
41	WR INLET	0.04	0.87	5	8.5	0.30
43	WR INLET	0.10	0.87	5	8.5	0.74
44	'D' INLET	0.45	0.32	13	5.8	0.84
45	EXIST. GRATE	0.10	0.32	8	7.2	0.23
46	WR INLET	0.13	0.87	5	8.5	0.96
47	WR INLET	0.06	0.87	5	8.5	0.44
48	'D' INLET	3.15	0.32	25	4.1	4.13
49	WR INLET	0.04	0.87	5	8.5	0.30
50	WR INLET	0.40	0.45	9	6.8	1.22
5A	MH W/SLOT. DR.	0.13	0.32	5	8.5	0.35
51	EX. INLET	0.05	.087	5	8.5	0.37

LEGEND

- DRAINAGE AREA NO.
- PROPOSED INLET NO.
- DRAINAGE AREA BOUNDARY
- RAINFALL INTENSITY (in./hr.) FOR 10 YEAR STORM
- TIME OF CONCENTRATION IN MINUTES
- FLOW - CUBIC INCHES PER SECOND
- EXISTING CONTOUR OR ELEVATION

SCALE: 1" = 100'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

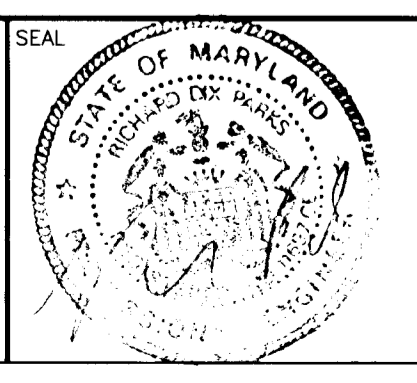
Camille Lee 6/5/91
DIRECTOR OF PUBLIC WORKS - DATE

Paul J. Ryan 6/15/91
CHIEF, BUREAU OF ENGINEERING - DATE

Elizabeth Anderson Julia 6/4/91
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

James W. Paul 6/15/91
CHIEF, BUREAU OF HIGHWAYS - DATE

acer
Acer Engineers & Consultants, Inc.
201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES: R.D.P.				
DRN: A.C.M.				
CHK: R.D.P.				
DATE: 01/93				
BY	NO	REVISION	DATE	

LENNOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100

LENNOX PARK
STORM DRAINAGE IMPROVEMENTS
DRAINAGE AREA AND DATA

SCALE
1"=100'

SHEET
6 OF 24

DWG. NO.
6-2

NOSE DOWN CURB (SEE DETAIL SHT. 3)
 MAGNOLIA AVE.: STA. 0+40, 13' LT.
 STA. 0+20, 13' RT.
 STA. 6+03, 17' RT.
 LINDEN AVE.: STA. 0+13, 12' RT.

ADJUST EXISTING UTILITY STRUCTURES TO GRADE
 @ MAGNOLIA AVE. STA. 2+35 LT. WATER METER
 @ MAGNOLIA AVE. STA. 2+52 LT. STORM DRAIN INLET (SEE DETAIL, SHT. 4)
 @ MAGNOLIA AVE. STA. 4+24.5 RT. SAN. SEWER MANHOLE

NOTE: GAS MAINS TO BE RELOCATED BY OTHERS

REMOVE EXISTING CATCH BASIN
 STA. 0+45.5, 16' LT. BASELINE MAGNOLIA AVE.
 STA. 2+86, 16' LT. BASELINE MAGNOLIA AVE.

MODIFY EXISTING CATCH BASIN TO MANHOLE (SEE DETAIL, SHT. 4)
 STA. 2+52, 14' LT. MAGNOLIA AVE.: CONSTRUCT TOP OF MANHOLE
 TO FINISH GRADE AT HEIGHT OF PROPOSED CURB

RELOCATE EXISTING WATER MAIN (SEE DETAIL SHT. 4)-TEST PITS TO CONFIRM
 STA. 2+40 LT. MAGNOLIA AVE. TO STA. 2+60 LT. MAGNOLIA AVE. 20 LF 8"
 STA. 4+25 LT. MAGNOLIA AVE. TO STA. 4+45 LT. MAGNOLIA AVE. 20 LF 8"

REMOVE EXISTING HEADWALL
 STA. 3+51.5, 10' RT. BASELINE MAGNOLIA AVE.

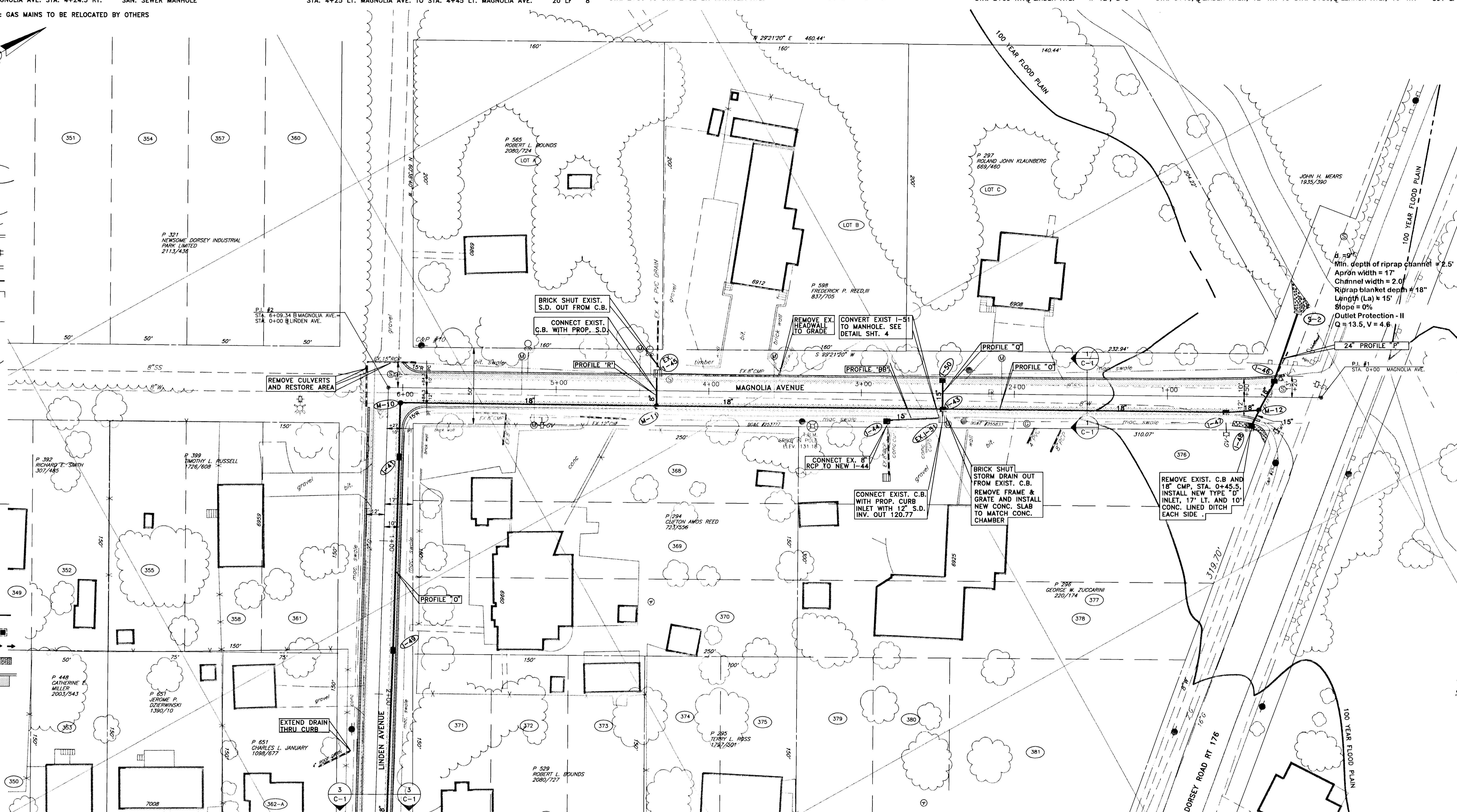
REMOVE EXISTING PIPE CULVERT
 STA. 5+92 TO STA. 6+23 RT. MAGNOLIA AVE. 31 LF 15" RCCP
 STA. 5+31 TO STA. 5+45 LT. MAGNOLIA AVE. 14 LF 8" CMP
 STA. 0+45, 16' LT. TO STA. 0+23, 32' RT. MAGNOLIA AVE. 50 LF 18" CMP
 STA. 3+50 TO STA. 3+68 LT. LENNOX AVE. 18 LF 8" VCP
 STA. 6+23 RIGHT AND LEFT MAGNOLIA AVE. 25 LF 12" RCP
 STA. 2+86 TO STA. 2+52 LT. MAGNOLIA AVE. 34 LF 12" VCP

CONSTRUCT DEPRESSED BITUMINOUS CURB AND
 TRANSITION BIT. PAVEMENT TO EXIST. DRIVEWAY
 STA. 0+64.5 RT. @ LINDEN AVE. - W=15', L=5'
 STA. 2+00 RT. @ MAGNOLIA AVE. - W=56', L=5'
 STA. 2+12 LT. @ MAGNOLIA AVE. - W=29', L=7'
 STA. 2+69 LT. @ MAGNOLIA AVE. - W=24', L=7'
 STA. 3+78 RT. @ MAGNOLIA AVE. - W=32', L=5'
 STA. 4+20 RT. @ MAGNOLIA AVE. - W=14', L=7'
 STA. 4+65 LT. @ MAGNOLIA AVE. - W=20', L=7'
 STA. 2+03 RT. @ LINDEN AVE. - W=12', L=5'

CONSTRUCT 6 1/2" BITUMINOUS CURB
 AND 4" ROAD WIDENING/RECONSTRUCTION
 STA. 0+40, @ MAGNOLIA AVE., 13' LT. TO STA. 0+10, @ LENNOX AVE., 10' RT. 1338 LF
 STA. 0+20, @ MAGNOLIA AVE., 13' RT. TO STA. 6+03, 17' RT. 583 LF
 STA. 0+13, @ LINDEN AVE., 12' RT. TO STA. 5+80, @ LENNOX AVE., 16' RT. 391 LF

LEGEND AND SYMBOL

- IND-CONTOUR
- SUP-CONTOUR
- SPOT-ELEV 20.0
- ROAD-PAVED
- ROAD-UNPAVED
- EX. CURB
- RAIL-ROAD
- SIDEWALK
- RETAININGWALL
- BUILDING
- TANK
- FENCE
- CONTROL
- TREE OR BRUSH
- STREAM
- LIGHTPOLE
- UTILITYPOLE
- SIGN
- POLE
- TRAFFICLIGHT
- EX. SAN. MH
- EX. FIRE HYD.
- POST
- INLET, GRATING TYPE
- DITCH OR SWALE
- SAN. CLEANOUT
- GAS METER
- P.I.
- B.M.
- WATER METER
- WATER VALVE
- GAS VALVE
- PROP. STORM DRAIN AND MANHOLE
- PROP. INLET AND PROTECTION
- PROP. TRI. GRASS DITCH
- PROP. CONC. DITCH
- AREA OF PAVT. RECONSTRUCTION AND NEW BIT. CURB

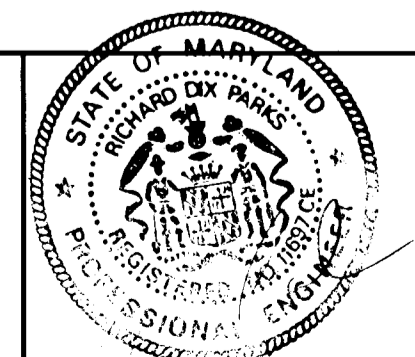


MATCHLINE - FOR CONTINUATION, SEE DWG. P-3

03/14/96 LENNOX 1375006A

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director: *Caro, Regina 6/5/96*
 Director of Public Works - DATE
 Chief, Roads, Bridges, & Storm Drainage Div. - DATE

acer
 Acer Engineers & Consultants, Inc.
 201 South Cleveland Avenue, Suite 304
 Hagerstown, Maryland 21740
 Tel 301-791-1100



DES:	R.D.P.
DRN:	A.C.M.
CHK:	R.D.P.
DATE:	03/93
BY:	NO
REVISION:	
DATE:	

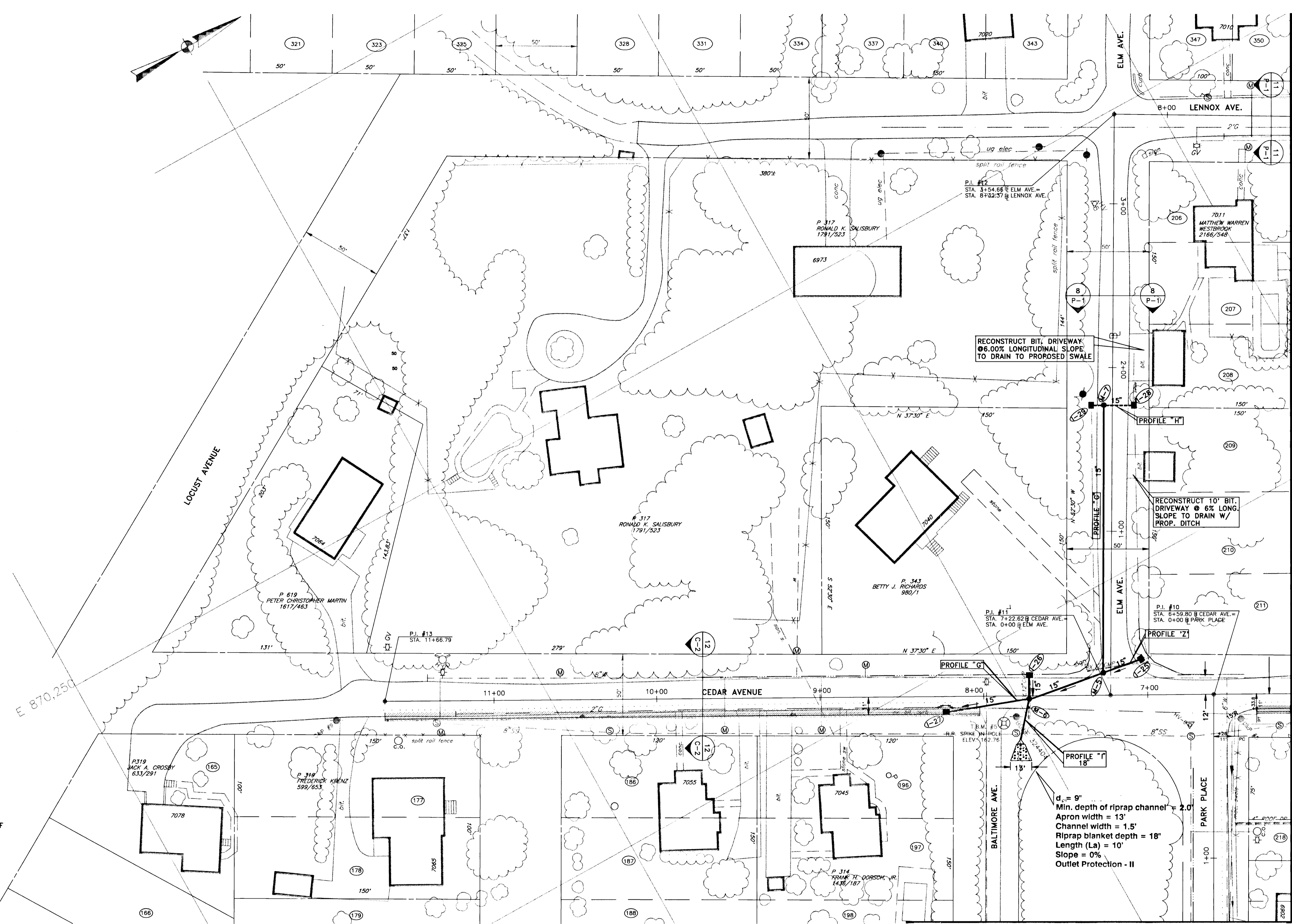
LENNOX PARK
 A RESIDENTIAL COMMUNITY
 60' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100
 LENNOX PARK
 STORM DRAINAGE IMPROVEMENTS
 STORM DRAIN AND ROAD IMPROVEMENTS

SCALE
 1" = 30'
 SHEET NO.
 7 OF 24
 DWG. NO.
 P-1

LEGEND AND SYMBOL

- IND-CONTOUR
- SUP-CONTOUR
- SPOT-ELEV
- ROAD-PAVED
- ROAD-UNPAVED
- EX. CURB
- RAIL-ROAD
- SIDEWALK
- RETAININGWALL
- BUILDING
- TANK
- FENCE
- CONTROL
- TREE OR BRUSH
- STREAM
- LIGHTPOLE
- UTILITYPOLE
- SIGN
- POLE
- TRAFFICLIGHT
- EX. SAN. MH
- EX. FIRE HYD.
- POST
- INLET, GRATING TYPE
- DITCH OR SWALE
- SAN. CLEANOUT
- GAS METER
- P.I.
- B.M.
- WATER METER
- WATER VALVE
- GAS VALVE
- PROP. STORM DRAIN
- PROP. INLET AND PROTECTION
- PROP. TRI. GRASS DITCH
- PROP. CONC. DITCH
- AREA OF PAYT. RECONSTRUCTION AND NEW BIT. CURB



- NOSE DOWN CURB (SEE DETAIL SHEET 3.)
STA. 8+00 @ CEDAR AVE., LT.
STA. 11+66.79 @ CEDAR AVE., LT.
STA. 6+33.8 @ CEDAR AVE., LT.
- RELOCATE EXISTING GAS MAIN (TO BE RELOCATED BY OTHERS)
STA. 8+15 LT. CEDAR AVE. TO STA. 8+35 LT. CEDAR AVE. 20 LF 2"
- RELOCATE EXIST. WATER MAIN - TEST PIT TO CONFIRM
STA. 7+25 RT. CEDAR AVE. TO STA. 7+45 RT. CEDAR AVE. 20 LF 8"
- CONSTRUCT 6 1/2" BITUMINOUS CURB AND 4' ROAD WIDENING/RECONSTRUCTION)
STA. 8+00 @ CEDAR AVE., 11' LT. TO STA. 11+66.79 @ CEDAR AVE., 11' LT. 367 LF
- REMOVE EXISTING BITUMINOUS CURB
STA. 8+00 LT. CEDAR AVE. TO STA. 11+66 LT. LINDEN AVE. 366 LF
- REMOVE EXISTING PIPE CULVERT
STA. 0+13 15' LT. ELM AVE. TO STA. 0+17 25' RT. ELM AVE. 40 LF 12" CMP
STA. 7+73 LT. CEDAR AVE. TO STA. 7+73 RT. CEDAR AVE. 33 LF 12" CMP
- CONSTRUCT DEPRESSED CURB AND DRIVEWAY
ENTRANCE WITH BITUMINOUS CURB AND PAVEMENT
STA. 9+25 LT. CEDAR AVE. W=15' L=8'
STA. 9+42 LT. CEDAR AVE. W=13' L=8'
STA. 1+45 LT. PARK PLACE W=18' L=5'

MATCHLINE - FOR CONTINUATION, SEE DWG. P-4

MATCHLINE - FOR CONTINUATION, SEE DWG. P-3

03/14/96 LENOX\1350344

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Elizabeth Anderson 6/5/96
DIRECTOR OF PUBLIC WORKS - DATE

Richard P. ... 6/5/96
CHIEF, BUREAU OF ENGINEERING - DATE

Elizabeth Anderson 6/5/96
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

Richard P. ... 6/5/96
CHIEF, BUREAU OF HIGHWAYS - DATE

acer
Acer Engineers & Consultants, Inc.
201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES: R.D.P.			
DRN: A.C.M.			
CHK: R.D.P.			
DATE: 01/93			
BY	NO	REVISION	DATE

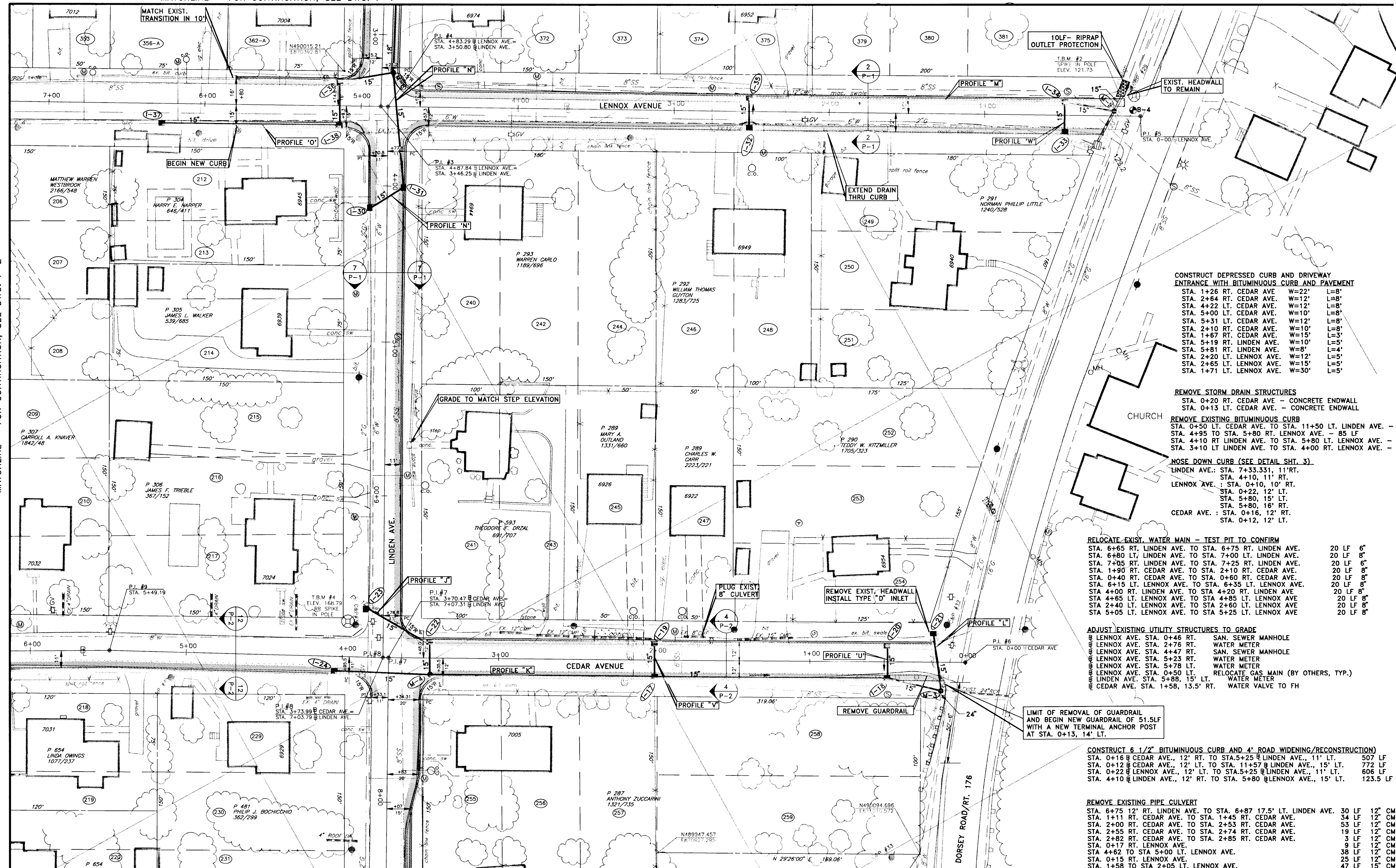
LENOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100
LENOX PARK
STORM DRAINAGE IMPROVEMENTS
STORM DRAIN AND ROAD IMPROVEMENT

SCALE
1" = 30'
SHEET NO.
8 OF 24
DWG. NO.
P-2

MATCHLINE - FOR CONTINUATION, SEE DWG. P-1



LEGEND AND SYMBOL

- IND-CONTOUR
- SUP-CONTOUR
- SPOT-ELEV
- ROAD-PAVED
- ROAD-UNPAVED
- EX. CURB
- RAIL-ROAD
- SIDEWALK
- RETAININGWALL
- BUILDING
- TANK
- FENCE
- CONTROL
- TREE OR BRUSH
- STREAM
- LIGHTPOLE
- UTILITYPOLE
- SIGN
- POLE
- TRAFFICLIGHT
- EX. SAN. MH
- EX. FIRE HYD.
- POST
- INLET, GRATING TYPE
- DITCH OR SWALE
- SAN. CLEANOUT
- GAS METER
- P.I.
- B.M.
- WATER METER
- WATER VALVE
- GAS VALVE
- PROP. STORM DRAIN AND MANHOLE
- PROP. INLET PROTECTION
- PROP. TRI. GRASS DITCH
- PROP. CONC. DITCH
- AREA OF PAVT. RECONSTRUCTION AND NEW BIT. CURB

CONSTRUCT DEPRESSIONED CURB AND DRIVEWAY ENTRANCE WITH BITUMINOUS CURB AND PAVEMENT

- STA. 1+26 RT. CEDAR AVE. W=22' L=8'
- STA. 2+64 RT. CEDAR AVE. W=12' L=8'
- STA. 4+22 LT. CEDAR AVE. W=12' L=8'
- STA. 5+00 LT. CEDAR AVE. W=10' L=8'
- STA. 5+31 LT. CEDAR AVE. W=12' L=8'
- STA. 2+10 RT. CEDAR AVE. W=10' L=8'
- STA. 1+67 RT. CEDAR AVE. W=15' L=3'
- STA. 5+19 RT. LINDEN AVE. W=10' L=5'
- STA. 5+81 RT. LINDEN AVE. W=8' L=4'
- STA. 2+20 LT. LENNOX AVE. W=12' L=5'
- STA. 2+65 LT. LENNOX AVE. W=15' L=5'
- STA. 1+71 LT. LENNOX AVE. W=30' L=5'

REMOVE STORM DRAIN STRUCTURES

- STA. 0+20 RT. CEDAR AVE - CONCRETE ENDWALL
- STA. 0+13 LT. CEDAR AVE. - CONCRETE ENDWALL

REMOVE EXISTING BITUMINOUS CURB

- STA. 0+50 LT. CEDAR AVE. TO STA. 11+50 LT. LINDEN AVE. - 700 LF
- STA. 4+95 TO STA. 5+80 RT. LENNOX AVE. - 85 LF
- STA. 4+10 RT. LINDEN AVE. TO STA. 5+80 LT. LENNOX AVE. - 123.5 LF
- STA. 3+10 LT. LINDEN AVE. TO STA. 4+00 RT. LENNOX AVE. - 100 LF

NOSE DOWN CURB (SEE DETAIL SHIT. 3)

- LENNOX AVE.: STA. 7+33.331, 11' RT.
- LENNOX AVE.: STA. 4+10, 11' RT.
- LENNOX AVE.: STA. 0+10, 10' RT.
- LENNOX AVE.: STA. 0+22, 12' LT.
- LENNOX AVE.: STA. 5+80, 15' LT.
- LENNOX AVE.: STA. 5+80, 16' RT.
- CEDAR AVE.: STA. 0+16, 12' RT.
- CEDAR AVE.: STA. 0+12, 12' LT.

RELOCATE EXIST. WATER MAIN - TEST PIT TO CONFIRM

- STA. 6+65 RT. LINDEN AVE. TO STA. 6+75 RT. LINDEN AVE. 20 LF 6"
- STA. 6+80 LT. LINDEN AVE. TO STA. 7+00 LT. LINDEN AVE. 20 LF 8"
- STA. 7+05 RT. LINDEN AVE. TO STA. 7+25 RT. LINDEN AVE. 20 LF 6"
- STA. 1+90 RT. CEDAR AVE. TO STA. 2+10 RT. CEDAR AVE. 20 LF 8"
- STA. 0+40 RT. CEDAR AVE. TO STA. 0+60 RT. CEDAR AVE. 20 LF 8"
- STA. 6+15 RT. LENNOX AVE. TO STA. 6+35 LT. LENNOX AVE. 20 LF 8"
- STA. 4+00 RT. LINDEN AVE. TO STA. 4+20 RT. LINDEN AVE. 20 LF 8"
- STA. 4+65 LT. LENNOX AVE. TO STA. 4+85 LT. LENNOX AVE. 20 LF 8"
- STA. 2+40 LT. LENNOX AVE. TO STA. 2+60 LT. LENNOX AVE. 20 LF 8"
- STA. 5+05 LT. LENNOX AVE. TO STA. 5+25 LT. LENNOX AVE. 20 LF 8"

ADJUST EXISTING UTILITY STRUCTURES TO GRADE

- LENNOX AVE. STA. 0+46 RT. SAN. SEWER MANHOLE
- LENNOX AVE. STA. 2+76 RT. WATER METER
- LENNOX AVE. STA. 4+47 RT. SAN. SEWER MANHOLE
- LENNOX AVE. STA. 5+23 RT. WATER METER
- LENNOX AVE. STA. 5+78 LT. WATER METER
- LENNOX AVE. STA. 0+50 LT. RELOCATE GAS MAIN (BY OTHERS, TYP.)
- LINDEN AVE. STA. 5+86, 15' LT. WATER METER
- CEDAR AVE. STA. 1+58, 13.5' RT. WATER VALVE TO FH

CONSTRUCT 6 1/2" BITUMINOUS CURB AND 4' ROAD WIDENING/RECONSTRUCTION

- STA. 0+16 @ CEDAR AVE., 12' RT. TO STA. 5+25 @ LINDEN AVE., 11' LT. 507 LF
- STA. 0+12 @ CEDAR AVE., 12' LT. TO STA. 11+57 @ LINDEN AVE., 15' LT. 772 LF
- STA. 0+22 @ LENNOX AVE., 12' LT. TO STA. 5+25 @ LINDEN AVE., 11' LT. 606 LF
- STA. 4+10 @ LINDEN AVE., 12' RT. TO STA. 5+80 @ LENNOX AVE., 15' LT. 123.5 LF

REMOVE EXISTING PIPE CULVERT

- STA. 6+75 12" RT. LINDEN AVE. TO STA. 6+87 17.5' LT. LINDEN AVE. 30 LF 12" CMP
- STA. 1+11 RT. CEDAR AVE. TO STA. 1+45 RT. CEDAR AVE. 34 LF 12" CMP
- STA. 2+00 RT. CEDAR AVE. TO STA. 2+53 RT. CEDAR AVE. 53 LF 12" CMP
- STA. 2+55 RT. CEDAR AVE. TO STA. 2+74 RT. CEDAR AVE. 19 LF 12" CMP
- STA. 2+82 RT. CEDAR AVE. TO STA. 2+85 RT. CEDAR AVE. 3 LF 12" CMP
- STA. 0+17 RT. LENNOX AVE. 9 LF 12" CMP
- STA. 4+62 TO STA. 5+00 LENNOX AVE. 38 LF 12" CMP
- STA. 0+15 RT. LENNOX AVE. 25 LF 12" CMP
- STA. 1+58 TO STA 2+05 LT. LENNOX AVE. 47 LF 15" RCP
- STA. 2+06 TO STA 2+31 RT. LENNOX AVE. 25 LF 12" RCP
- STA. 2+65 TO STA 2+81 LT. LENNOX AVE. 18 LF 12" RCP
- STA. 3+50 TO STA 3+68 LT. LENNOX AVE. 18 LF 8" VCP

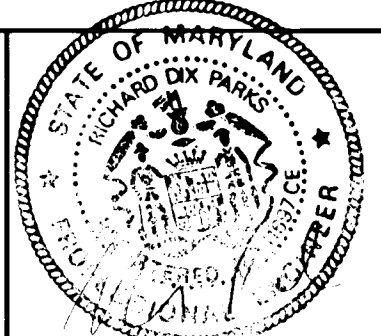
MATCHLINE - FOR CONTINUATION, SEE DWG. P-2

MATCHLINE - FOR CONTINUATION, SEE DWG. P-4

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Randy H. ...
 DIRECTOR OF PUBLIC WORKS - DATE
...
 CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

acer
 Acer Engineers & Consultants, Inc.
 201 South Cleveland Avenue, Suite 304
 Hagerstown, Maryland 21740
 Tel 301-791-1100



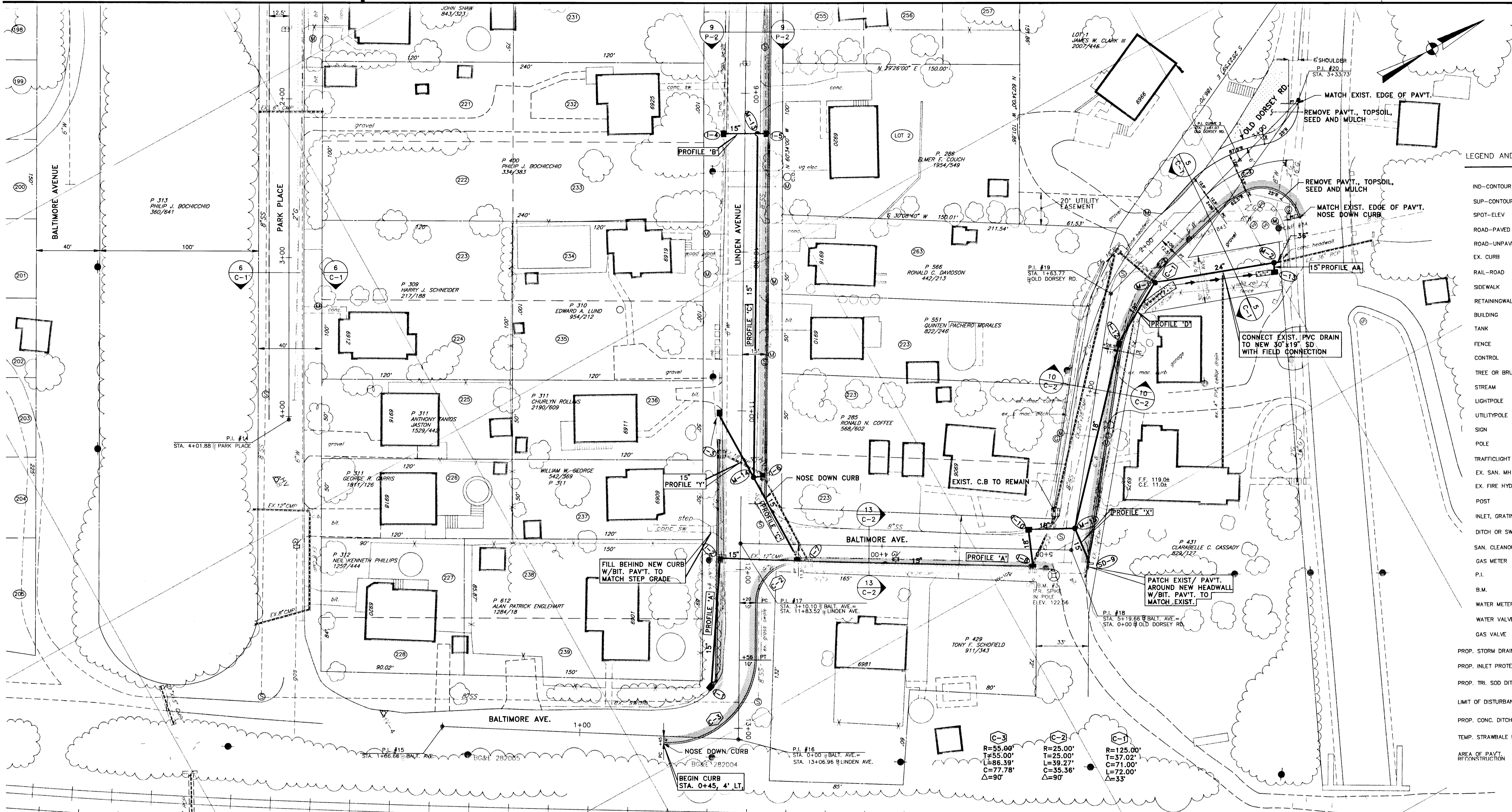
DES: R.D.P.	
DRN: A.C.M.	
CHK: R.D.P.	
DATE: 03/93	
BY NO	REVISION

LENNOX PARK
 A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100
 LENNOX PARK
 STORM DRAINAGE IMPROVEMENTS
 STORM DRAIN AND ROAD IMPROVEMENT PLAN

SCALE
 1" = 30'
 SHEET NO.
 9 OF 24
 DWG. NO.
 P-3



- LEGEND AND SYMBOL**
- IND-CONTOUR
 - SUP-CONTOUR
 - SPOT-ELEV 20.0
 - ROAD-PAVED
 - ROAD-UNPAVED
 - EX. CURB
 - RAIL-ROAD
 - SIDEWALK
 - RETAININGWALL
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 - INLET, GRATING TYPE
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 - B.M.
 - WATER METER
 - WATER VALVE
 - GAS VALVE
 - PROP. STORM DRAIN
 - PROP. INLET PROTECTION
 - PROP. TRI. SOD DITCH
 - LIMIT OF DISTURBANCE
 - PROP. CONC. DITCH
 - TEMP. STRAWBALE DIKE
 - AREA OF PAVT. RECONSTRUCTION

ADJUST UTILITIES TO GRADE
 LINDEN AVE. STA. 8+75, 12' LT. SEWER MANHOLE
 LINDEN AVE. STA. 10+58, 17' LT. WATER METER
 LINDEN AVE. STA. 10+67, 13' LT. SAN SEWER MH

NOSE DOWN CURB (SEE DETAIL SHEET 3)
 STA. 11+57 @ LINDEN AVE. LT.
 STA. 0+08 @ OLD DORSEY RD., RT.
 STA. 2+74 @ OLD DORSEY RD., RT.
 STA. 0+45 @ BALTIMORE AVE., LT.
 STA. 5+08 @ BALTIMORE AVE., RT.
 STA. 12+72 @ LINDEN AVE., RT.
 STA. 11+10 @ LINDEN AVE., RT.
 STA. 6+33.8 @ CEDAR AVE., LT.

CONSTRUCT CONCRETE TRIANGULAR CHANNEL
 STA. 1+58, 20' RT. OLD DORSEY RD. TO STA. 1+90, 25' RT. OLD DORSEY RD. 25 LF
 INLET CHANNEL TO I-13 - OLD DORSEY RD., RT. 10 LF

REMOVE STORM DRAIN STRUCTURES
 STA. 11+21, 14.5' RT. LINDEN AVE. - STORM DRAIN CATCH BASIN
 STA. 11+41.5, 15' RT. LINDEN AVE. - STORM DRAIN CATCH BASIN
 STA. 11+95, 12' RT. LINDEN AVE. - STORM DRAIN CATCH BASIN
 STA. 4+98, 13.8' RT. BALTIMORE AVE. - STORM DRAIN CATCH BASIN
 STA. 3+51, 9.5' RT. BALTIMORE AVE. - STORM DRAIN CATCH BASIN

RELOCATE EXISTING GAS MAIN (TO BE RELOCATED BY OTHERS)
 STA. 2+00 LT. PARK PLACE TO STA. 2+20 LT. PARK PLACE
 STA. 9+15 LT. LINDEN AVE. TO STA. 9+35 LT. LINDEN AVE. 20 LF 2"
 STA. 10+90 RT. LINDEN AVE. TO STA. 11+10 RT. LINDEN AVE. 20 LF 2"
 STA. 11+80 RT. LINDEN AVE. TO STA. 12+00 RT. LINDEN AVE. 20 LF 2"

RELOCATE EXIST. WATER MAIN - TEST PIT TO CONFIRM
 STA. 1+25, RT. OLD DORSEY RD. TO STA. 1+45 RT. OLD DORSEY RD. 20 LF 6"
 STA. 11+05 RT. LINDEN AVE. TO STA. 11+25 RT. LINDEN AVE. 20 LF 6"
 STA. 11+80 RT. LINDEN AVE. TO STA. 12+00 RT. LINDEN AVE. 20 LF 6"
 STA. 2+00 LT. PARK PLACE TO STA. 2+20 LT. PARK PLACE 20 LF 6"
 STA. 3+65 LT. PARK PLACE TO STA. 3+85 LT. PARK PLACE 20 LF 6"
 STA. 9+15 LT. LINDEN AVE. TO STA. 9+35 LT. LINDEN AVE. 20 LF 6"
 STA. 0+10 RT. OLD DORSEY RD. TO STA. 0+10 RT. OLD DORSEY RD. 20 LF 6"
 STA. 11+00 RT. TO STA. 12+00 RT. LINDEN AVE. 20 LF 6"

CONSTRUCT DEPRESSED CURB AND DRIVEWAY ENTRANCE WITH BITUMINOUS CURB AND PAVEMENT
 STA. 9+01 LT. LINDEN AVE. W=12.5' L=4'
 STA. 9+90 LT. LINDEN AVE. W=19' L=4'
 STA. 10+40 LT. LINDEN AVE. W=20' L=4'
 STA. 10+73 RT. LINDEN AVE. W=14' L=4'
 STA. 2+93 RT. PARK PLACE W=10' L=5'

CONSTRUCT 1/2" BITUMINOUS CURB AND 4" ROAD WIDENING/RECONSTRUCTION
 STA. 0+08 @ OLD DORSEY ROAD, 11' RT. TO DORSEY RD. 340 LF
 STA. 0+45 @ BALTIMORE AVE., 4' LT. TO STA. 5+08 @ BALTIMORE AVE., 11.5' RT. 350 LF
 STA. 12+72 @ LINDEN AVE., 18' RT. TO STA. 11+18 @ LINDEN AVE., 14' RT. 188 LF
 STA. 6+33.8 @ CEDAR AVE., 11' LT. TO STA. 7+33.3 @ LINDEN AVE., 10' RT. 280 LF

REMOVE EXISTING BITUMINOUS CURB
 STA. 12+00 RT. LINDEN AVE. TO STA. 12+25 RT. LINDEN AVE. 25 LF
 STA. 0+00 RT. OLD DORSEY RD. TO STA. 1+50 RT. OLD DORSEY RD. 150 LF

REMOVE EXISTING PIPE CULVERT
 STA. 3+51 TO STA. 4+95 RT. BALTIMORE AVE. 144 LF 24" CMP
 STA. 4+95 RT. BALTIMORE AVE. TO STA. 0+20 LT. OLD DORSEY RD. 36 LF 24" CMP
 STA. 2+08 LT. PARK PLACE TO STA. 2+08 RT. PARK PLACE 24 LF 8" CMP
 STA. 11+27 RT. LINDEN AVE. TO STA. 11+41.5 LT. LINDEN AVE. 30 LF 18" CMP
 STA. 11+95 RT. LINDEN AVE. TO STA. 3+51 RT. BALTIMORE AVE. 58 LF 12" CMP
 STA. 11+41.5 LT. LINDEN AVE. TO STA. 3+51 RT. BALTIMORE AVE. 60 LF 18" CMP
 STA. 1+80 RT. OLD DORSEY RD. TO STA. 1+80 RT. OLD DORSEY RD. 30 LF 18" CMP
 STA. 0+10 RT. OLD DORSEY RD. - AS REQ'D. TO INSTALL SD-9 20 LF 12" CMP

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Camille A. ...
 DIRECTOR OF PUBLIC WORKS - DATE

Paul ...
 CHIEF, BUREAU OF ENGINEERING - DATE

...
 CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

acer
 Acer Engineers & Consultants, Inc.
 201 South Cleveland Avenue, Suite 304
 Hagerstown, Maryland 21740
 Tel 301-791-1100

DES:	R.D.P.	
DRN:	A.C.M.	
CHK:	R.D.P.	
DATE:	03/93	
BY:	NO	REVISION
DATE:		

LENNOX PARK
 A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100
 LENNOX PARK
 STORM DRAINAGE IMPROVEMENTS

STORM DRAIN AND ROAD IMPROVEMENTS

SCALE
 1" = 30'

SHEET NO.
 10 OF 24

DWG. NO.
 P-4

02/23/96 LENNOX\1375005A

CONSTRUCT TEMPORARY INLET PROTECTION FOR SEDIMENT AND EROSION CONTROL
 1-48, EXIST. INLET STA. 2+86, 15' LT. MAGNOLIA AVE., EXIST. 1-45, 1-46,

CONSTRUCT TEMPORARY IN-STREAM STONE DIKE FOR SEDIMENT CONTROL
 L=17', STA. 0+15, 55' RT. @ MAGNOLIA AVE.
CONSTRUCT STRAW BALE DIKE IN SWALE FOR SEDIMENT CONTROL
 L=6', STA. 6+23, 25' RT. @ MAGNOLIA AVE.
 L=8', STA. 1+25, 16' RT. @ MAGNOLIA AVE.

CONSTRUCT SILT FENCE FOR TEMPORARY SEDIMENT CONTROL
 15 LF- STA. 0+25, 60' RT. TO STA. 0+25, 75' RT. @ MAGNOLIA AVE.

CONSTRUCT RIPRAP LINED OUTLET PROTECTION FOR SEDIMENT AND EROSION CONTROL
 15 LF- MAGNOLIA AVE.: STA. 0+20, 40' RT. TO STA. 0+15, 55' RT. $d_{50} = 6"$, $Q = 13.5$, $V = 4.6$

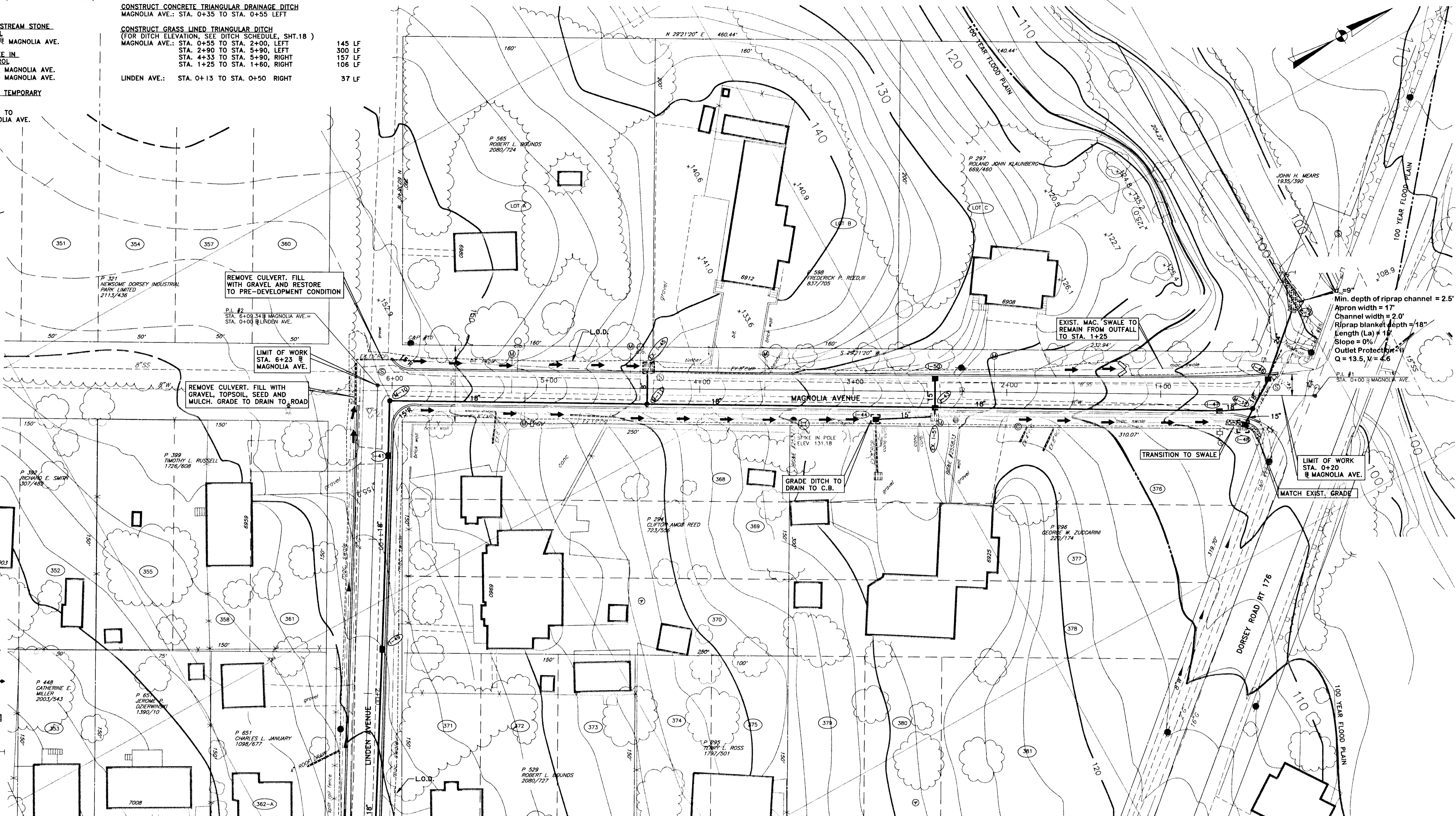
CONSTRUCT CONCRETE TRIANGULAR DRAINAGE DITCH
 MAGNOLIA AVE.: STA. 0+35 TO STA. 0+55 LEFT

CONSTRUCT GRASS LINED TRIANGULAR DITCH
 (FOR DITCH ELEVATION, SEE DITCH SCHEDULE, SHT. 18)

MAGNOLIA AVE.: STA. 0+55 TO STA. 2+00, LEFT
 STA. 2+90 TO STA. 5+90, LEFT
 STA. 4+33 TO STA. 5+90, RIGHT
 STA. 1+25 TO STA. 1+60, RIGHT
 LINDEN AVE.: STA. 0+13 TO STA. 0+50 RIGHT 37 LF

LEGEND AND SYMBOL

- IND-CONTOUR
- SUP-CONTOUR
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- ROAD-PAVED
- ROAD-UNPAVED
- EX. CURB
- RAIL-ROAD
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- B.M.
- WATER METER
- WATER VALVE
- GAS VALVE
- PROP. STORM DRAIN
- PROP. INLET AND PROTECTION
- PROP. TRI. GRASS DITCH
- LIMIT OF DISTURBANCE
- PROP. CONC. DITCH
- TEMP. STRAWBALE DIKE
- SILT FENCE



MATCHLINE - FOR CONTINUATION, SEE DWG GR-3

02/21/96 LENNOX 1375003A

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS - DATE

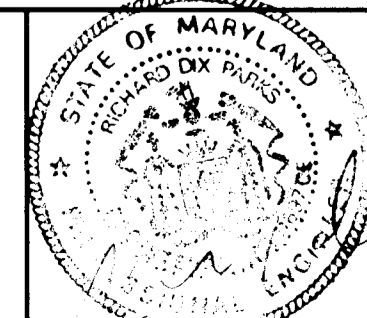
Richard J. Saper 6/5/96
 CHIEF, BUREAU OF ENGINEERING - DATE

Edward H. Linderman 6/5/96
 CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

CHIEF, BUREAU OF HIGHWAYS - DATE

acer
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201 South Cleveland Avenue, Suite 304
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DES: R.D.P.					
DRN: A.C.M.					
CHK: R.D.P.					
DATE: 03/93					
BY	NO	REVISION	DATE		

LENNOX PARK
 A RESIDENTIAL COMMUNITY

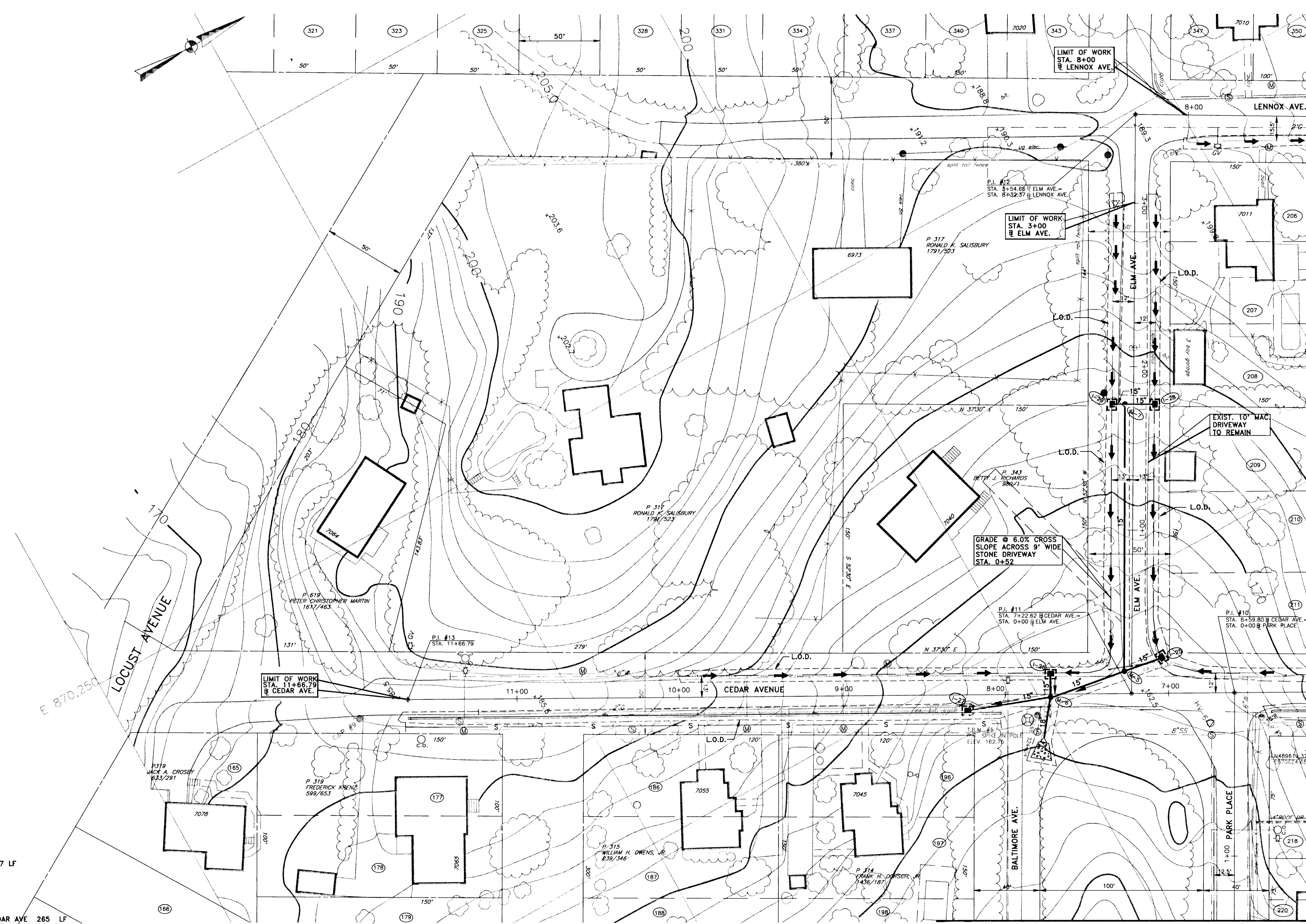
600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100
 LENNOX PARK
 STORM DRAINAGE IMPROVEMENTS
 GRADING, SEDIMENT AND EROSION CONTROL PLAN

SCALE
 1" = 30'
 SHEET NO.
 11 OF 24
 DWG. NO.
 GR-1

LEGEND AND SYMBOL

- IND-CONTOUR
- SUP-CONTOUR
- SPOT-ELEV
- ROAD-PAVED
- ROAD-UNPAVED
- EX. CURB
- RAIL-ROAD
- SIDEWALK
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- GAS VALVE
- PROP. STORM DRAIN
- PROP. INLET AND PROTECTION
- PROP. TRI. GRASS DITCH
- LIMIT OF DISTURBANCE
- PROP. CONC. DITCH
- TEMP. STRAWBALE DIKE
- SILT FENCE



- CONSTRUCT TEMPORARY INLET PROTECTION FOR SEDIMENT AND EROSION CONTROL I-26, I-27, I-25, I-28, I-29
- CONSTRUCT RIPRAP OUTLET PROTECTION STA. 7+75 LT. CEDAR AVE. - 10 LF
- CONSTRUCT SILT FENCE STA. 8+00 LT. CEDAR AVE. TO STA. 11+67 LT. CEDAR AVE. - 367 LF
- CONSTRUCT GRASS LINED TRIANGULAR DITCH (FOR DITCH ELEVATION, SEE DITCH SCHEDULE, SHT. 18)
 LENNOX AVE.: STA. 0+16 TO STA. 3+00, LEFT 284 LF
 LENNOX AVE.: STA. 0+16 TO STA. 3+00, RIGHT 284 LF
 ELM AVE.: STA. 0+16 LT. ELM AVE. TO STA. 10+00, RT CEDAR AVE 265 LF
 ELM AVE.: STA. 0+16 RT. ELM AVE. TO STA. 5+75 RT CEDAR AVE. 180 LF

MATCHLINE - FOR CONTINUATION, SEE DWG. GR-4

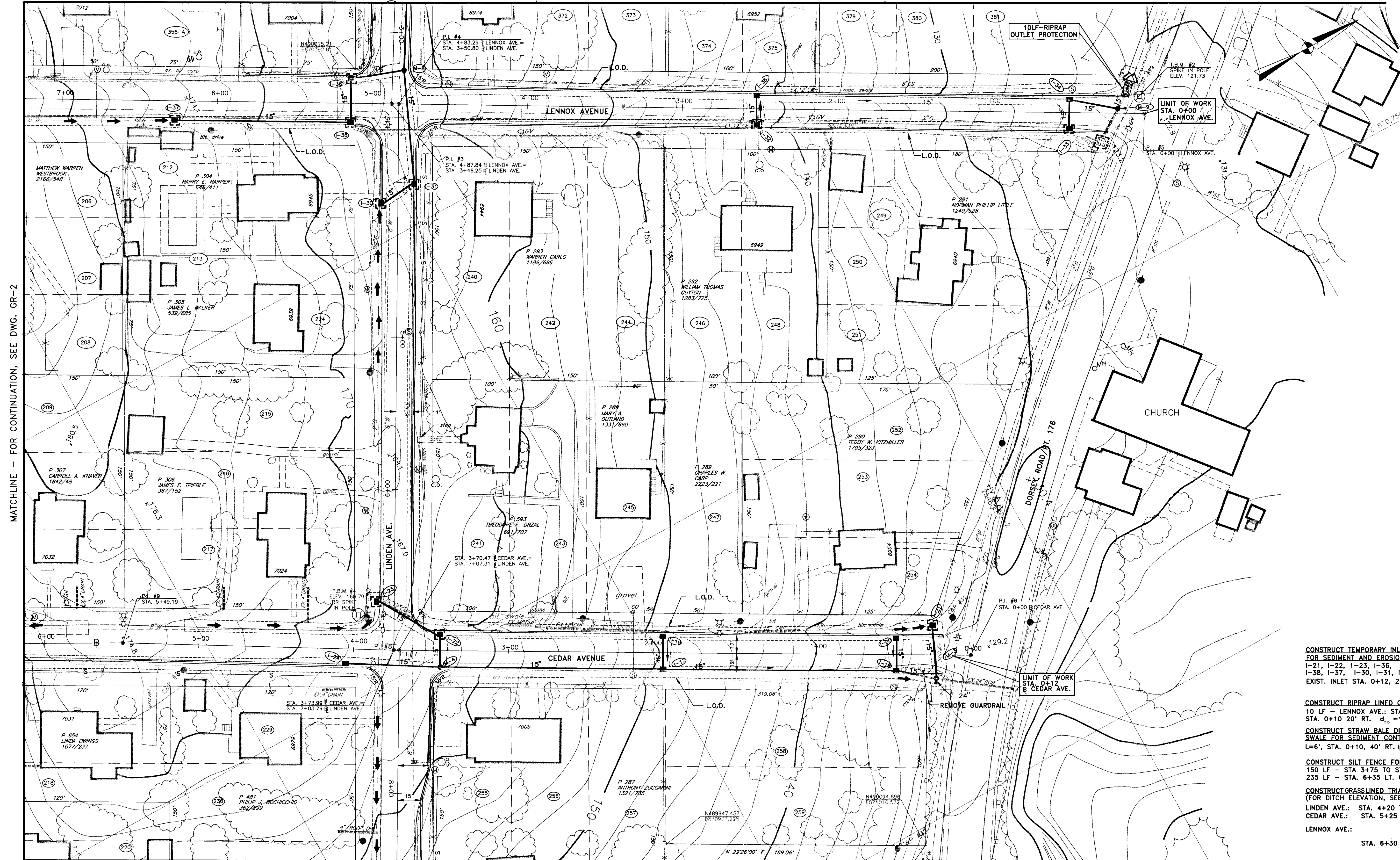
MATCHLINE - FOR CONTINUATION, SEE DWG. GR-3

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - Date Chief, Bureau of Engineering - Date Chief, Roads, Bridges, & Storm Drainage Div. - Date Chief, Bureau of Highways - Date	acer Acer Engineers & Consultants, Inc. 201 South Cleveland Avenue, Suite 304 Hagerstown, Maryland 21740 Tel 301-791-1100		DES: R.D.P. DRN: A.C.M. CHK: R.D.P. DATE: 03/93	LENNOX PARK A RESIDENTIAL COMMUNITY	CAPITAL PROJECT NO. D-1100 LENNOX PARK STORM DRAINAGE IMPROVEMENTS GRADING, SEDIMENT AND EROSION CONTROL PLAN	SCALE 1" = 30' SHEET NO. 12 OF 24 DWG. NO. GR-2
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MATCHLINE - FOR CONTINUATION, SEE DWG. GR-1

LEGEND AND SYMBOL

- IND-CONTOUR
- SUP-CONTOUR
- SPOT-ELEV $\times 20.0$
- ROAD-PAVED
- ROAD-UNPAVED
- EX. CURB
- RAIL-ROAD
- SIDEWALK
- RETAININGWALL
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- POLE
- TRAFFICLIGHT
- EX. SAN. MH
- EX. FIRE HYD.
- POST
- INLET, GRATING TYPE
- DITCH OR SWALE
- SAN. CLEANOUT
- GAS METER
- P.I.
- B.M.
- WATER METER
- WATER VALVE
- GAS VALVE
- SOIL BORING
- TEST PIT
- PROP. STORM DRAIN
- PROP. INLET PROTECTION
- PROP. TRI. SOO DITCH
- LIMIT OF DISTURBANCE
- PROP. CONC. DITCH
- TEMP. STRAWBALE DIKE
- SILT FENCE

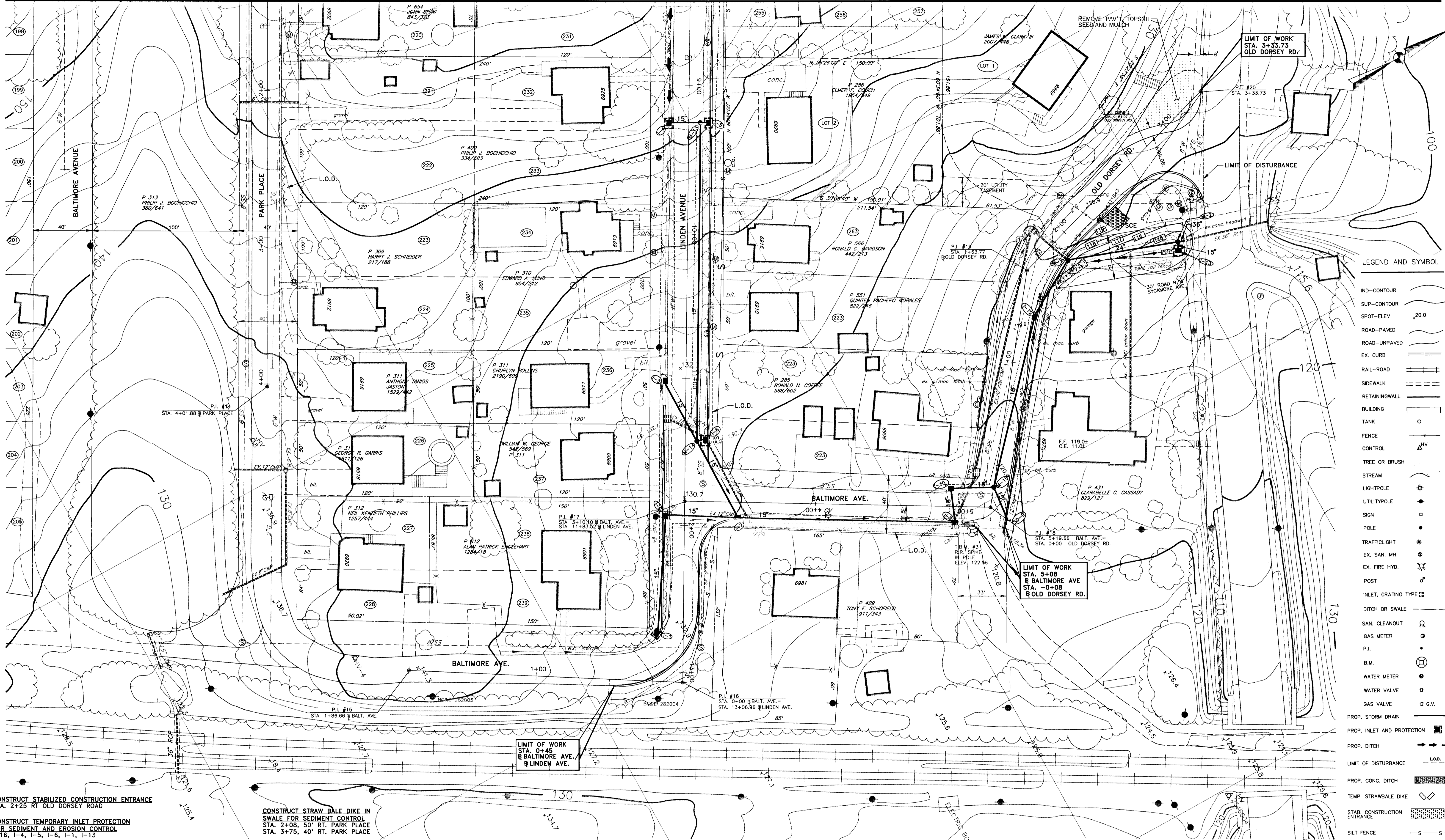


- CONSTRUCT TEMPORARY INLET PROTECTION FOR SEDIMENT AND EROSION CONTROL
1-21, 1-22, 1-23, 1-36, 1-38, 1-37, 1-30, 1-31, 1-32, 1-33, EXIST. INLET STA. 0+12, 21' LT. LENNOX AVE.
- CONSTRUCT RIPRAP LINED OUTLET PROTECTION
10 LF - LENNOX AVE.; STA. 0+10, 10' RT. TO STA. 0+10 20' RT. $d_{50} = 9'$ $Q = 13.0$ $V = 4.9$
- CONSTRUCT STRAW BALE DIKE IN SWALE FOR SEDIMENT CONTROL
L=6', STA. 0+10, 40' RT. @ LENNOX AVE.
- CONSTRUCT SILT FENCE FOR TEMPORARY SEDIMENT CONTROL
150 LF - STA 3+75 TO STA 5+25, LT @ LINDEN AVE.
235 LF - STA. 6+35 LT. CEDAR AVE. TO STA. 4+00 LT. CEDAR AVE.
- CONSTRUCT GRASSLINED TRIANGULAR DITCH (FOR DITCH ELEVATION, SEE DITCH SCHEDULE, SHT. 18)
LINDEN AVE.: STA. 4+20 TO STA. 5+25, RIGHT 105 LF
CEDAR AVE.: STA. 5+25 TO STA. 3+90, RIGHT 135 LF
LENNOX AVE.: STA. 6+30 TO STA. 8+00, LEFT 170 LF

MATCHLINE - FOR CONTINUATION, SEE DWG. GR-4

MATCHLINE - FOR CONTINUATION, SEE DWG. GR-2

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>James M. ...</i> 6/5/96 DIRECTOR OF PUBLIC WORKS - DATE</p> <p><i>Ed Stalwell Anderson</i> 6/16/96 CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE</p>	<p>acer Acer Engineers & Consultants, Inc.</p> <p>201 South Cleveland Avenue, Suite 304 Hagerstown, Maryland 21740 Tel 301-791-1100</p>	<p>DES: R.D.P.</p> <p>DRN: A.C.M.</p> <p>CHK: R.D.P.</p> <p>DATE: 03/93</p>	<p>LENNOX PARK A RESIDENTIAL COMMUNITY</p> <p>600' SCALE MAP NO. 43 BLOCK NO. 6</p>	<p>CAPITAL PROJECT NO. D-1100 LENNOX PARK STORM DRAINAGE IMPROVEMENTS</p> <p>GRADING, SEDIMENT AND EROSION CONTROL PLAN</p>	<p>SCALE 1" = 30'</p> <p>SHEET NO. 13 OF 24</p> <p>DWG. NO. GR-3</p>
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LEGEND AND SYMBOL

- IND-CONTOUR
- SUP-CONTOUR
- SPOT-ELEV x20.0
- ROAD-PAVED
- ROAD-UNPAVED
- EX. CURB
- RAIL-ROAD
- SIDEWALK
- RETAININGWALL
- BUILDING
- TANK
- FENCE
- CONTROL
- TREE OR BRUSH
- STREAM
- LIGHTPOLE
- UTILITYPOLE
- SIGN
- POLE
- TRAFFICLIGHT
- EX. SAN. MH
- EX. FIRE HYD.
- POST
- INLET, GRATING TYPE
- DITCH OR SWALE
- SAN. CLEANOUT
- GAS METER
- P.I.
- B.M.
- WATER METER
- WATER VALVE
- GAS VALVE
- PROP. STORM DRAIN
- PROP. INLET AND PROTECTION
- PROP. DITCH
- LIMIT OF DISTURBANCE
- PROP. CONC. DITCH
- TEMP. STRAWBALE DIKE
- STAB. CONSTRUCTION ENTRANCE
- SILT FENCE

CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE
STA. 2+25 RT OLD DORSEY ROAD

CONSTRUCT STRAW DALE DIKE IN SWALE FOR SEDIMENT CONTROL
STA. 2+08, 50' RT. PARK PLACE
STA. 3+75, 40' RT. PARK PLACE

CONSTRUCT TEMPORARY INLET PROTECTION FOR SEDIMENT AND EROSION CONTROL
I-16, I-4, I-5, I-6, I-1, I-13

CONSTRUCT SILT FENCE FOR TEMPORARY SEDIMENT CONTROL
STA. 12+00 LT. LINDEN AVE. TO STA. 0+65 LT. BALTIMORE AVE.
STA. 8+00 LT. LINDEN AVE. TO STA. 11+50 LT. LINDEN AVE.

CONSTRUCT GRASS LINED TRIANGULAR CHANNEL WITH SOIL STABILIZATION MATTING
STA. 7+50 RT., LINDEN AVE. TO STA. 10+60 RT. LINDEN AVE. 310 LF
STA. 1+95 RT., OLD DORSEY RD. TO STA. STA. 2+35 OLD DORSEY RD. 50 LF

LIMIT OF WORK
STA. 0+45
BALTIMORE AVE.
LINDEN AVE.

LIMIT OF WORK
STA. 5+08
BALTIMORE AVE
STA. -0+08
OLD DORSEY RD.

LIMIT OF WORK
STA. 3+33.73
OLD DORSEY RD.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

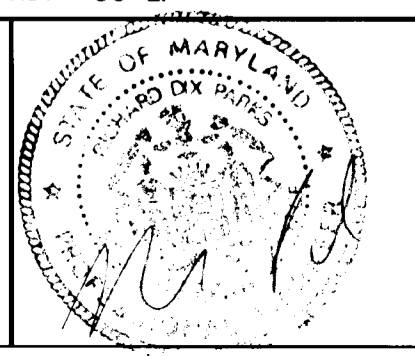
Robert D. Quinn 6/5/96
DIRECTOR OF PUBLIC WORKS - DATE

Paul J. Quinn 6/5/96
CHIEF, BUREAU OF ENGINEERING - DATE

Elizabeth Quinn 6/5/96
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

Paul J. Quinn 6/5/96
CHIEF, BUREAU OF HIGHWAYS - DATE

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DES: R.D.P.	
DRN: A.C.M.	
CHK: R.D.P.	
DATE: 03/93	
BY	NO
REVISION	
DATE	

LENNOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

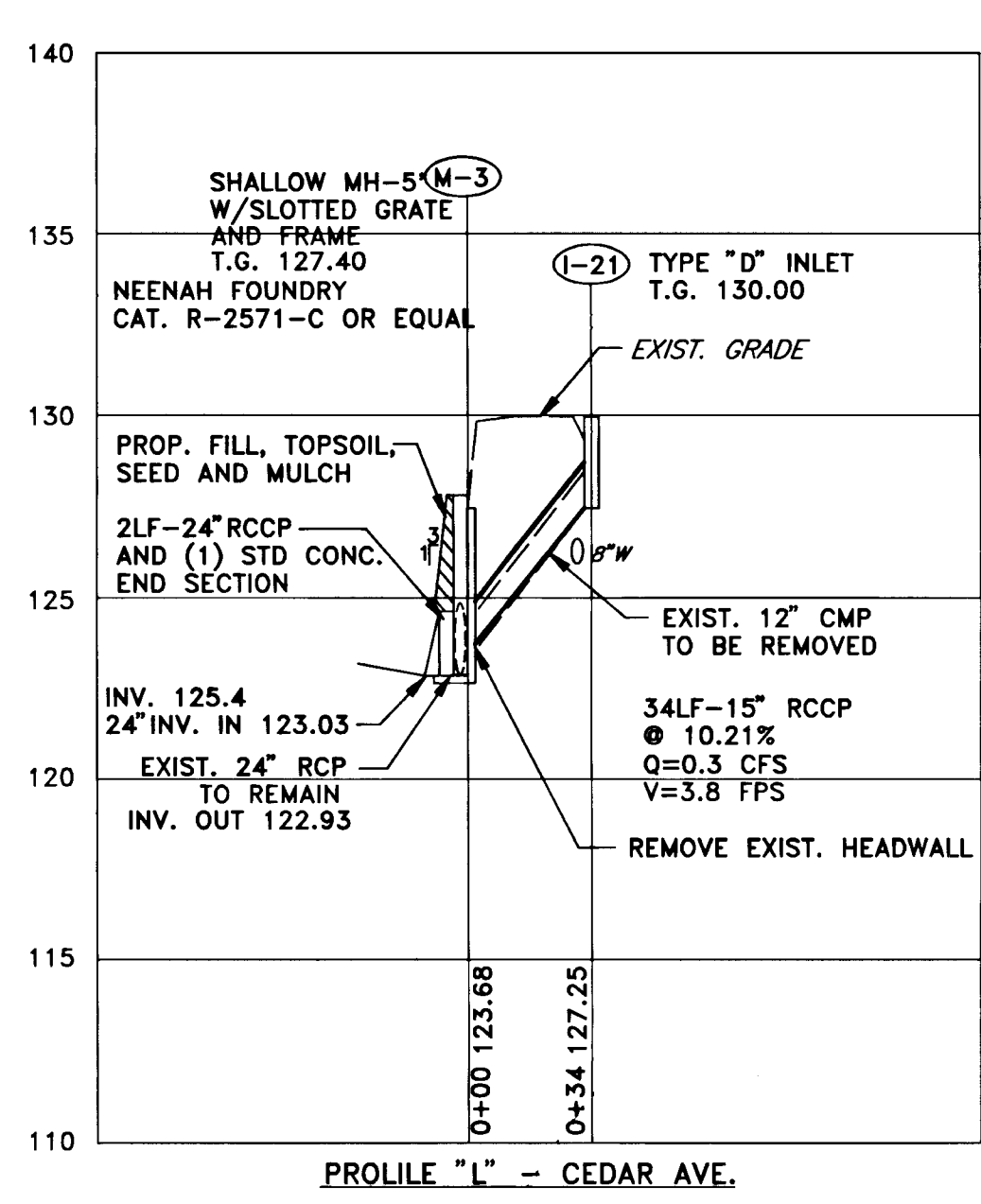
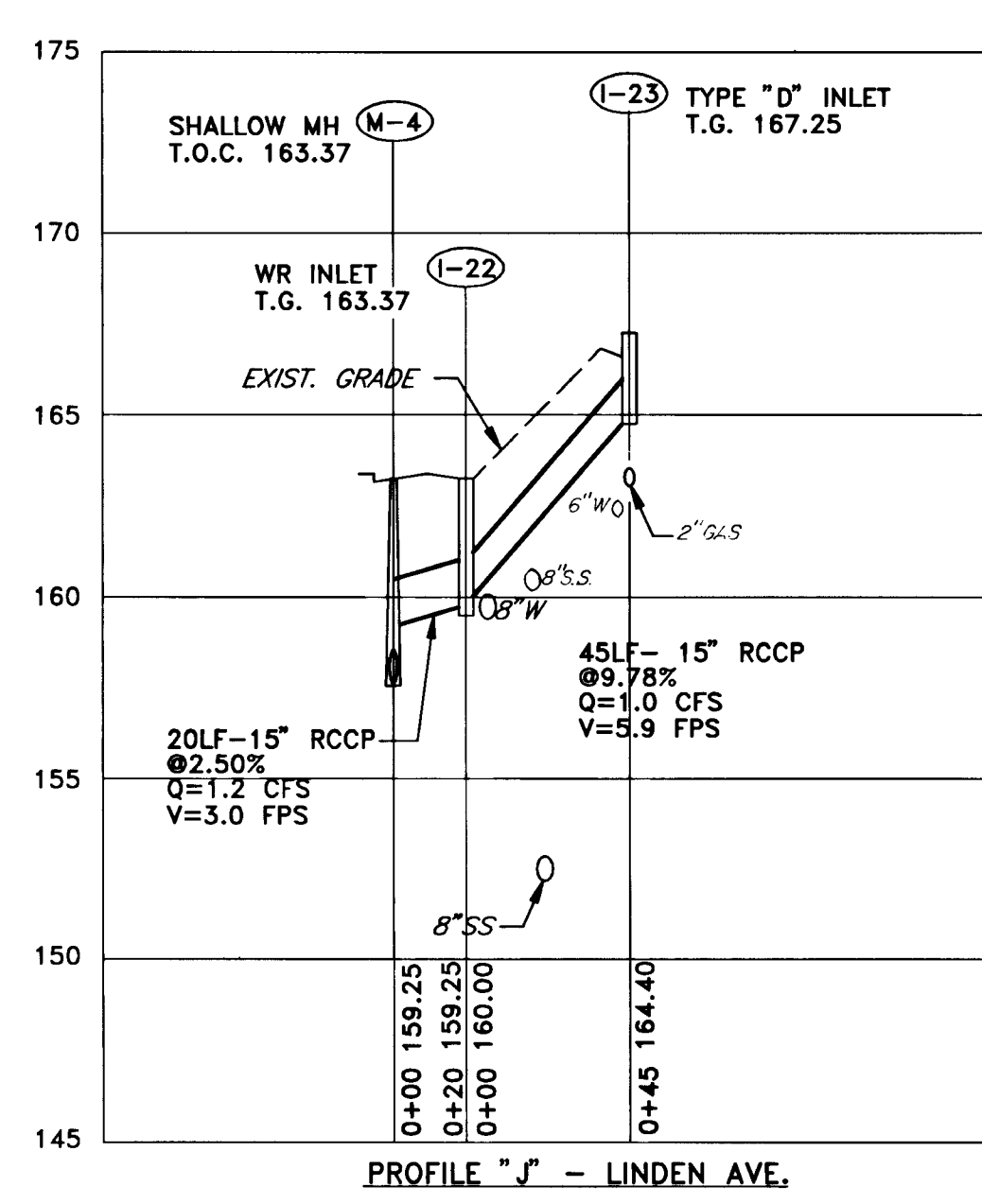
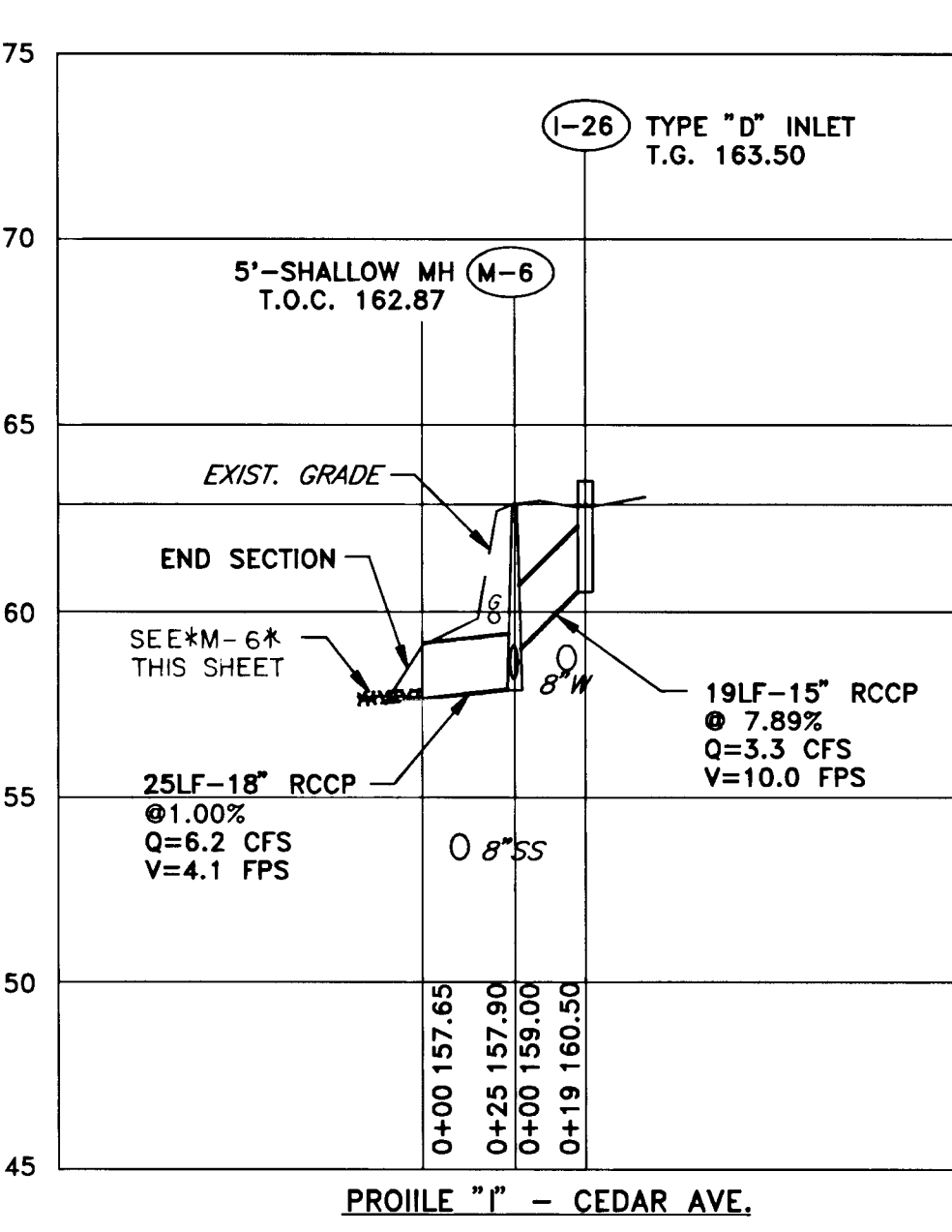
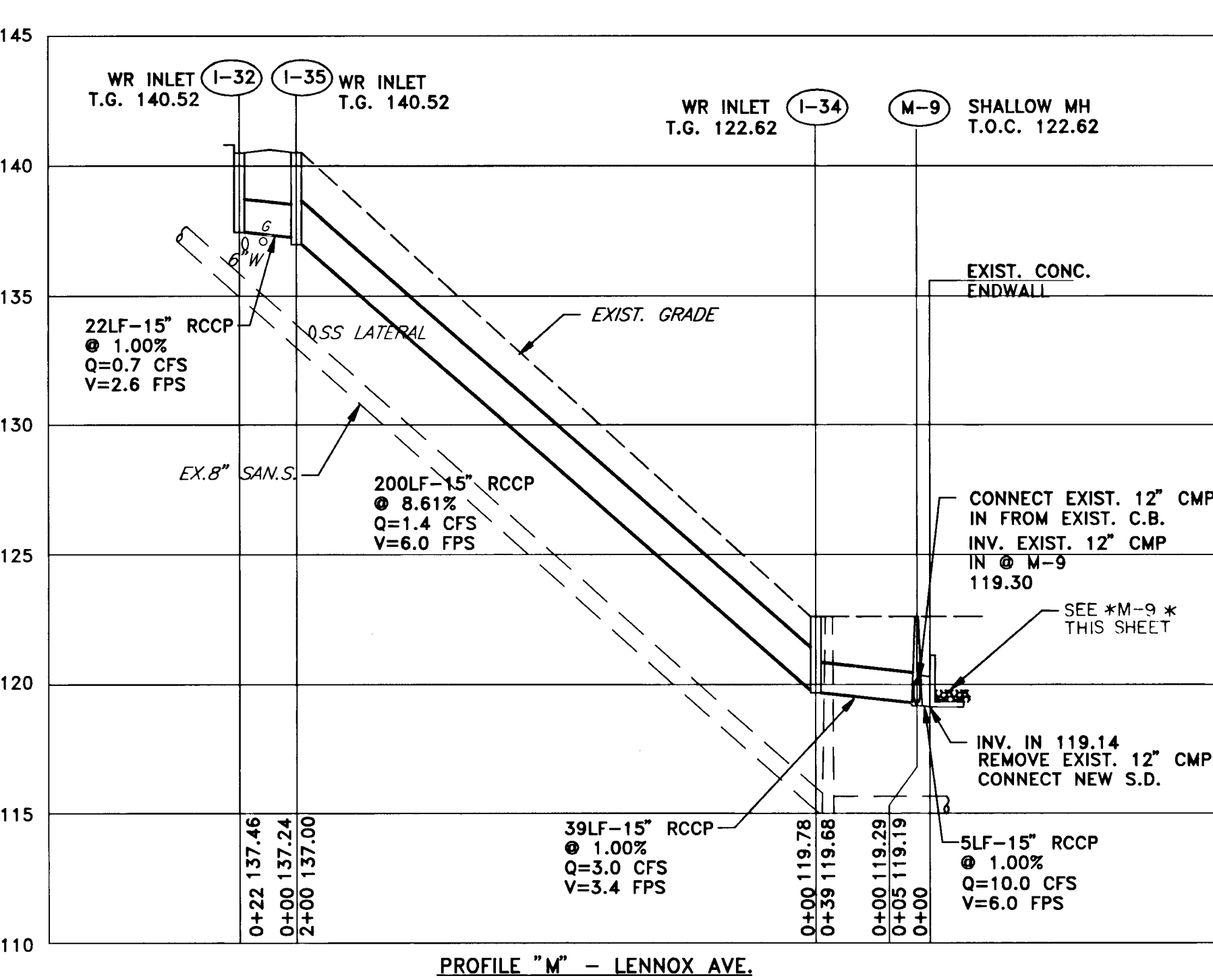
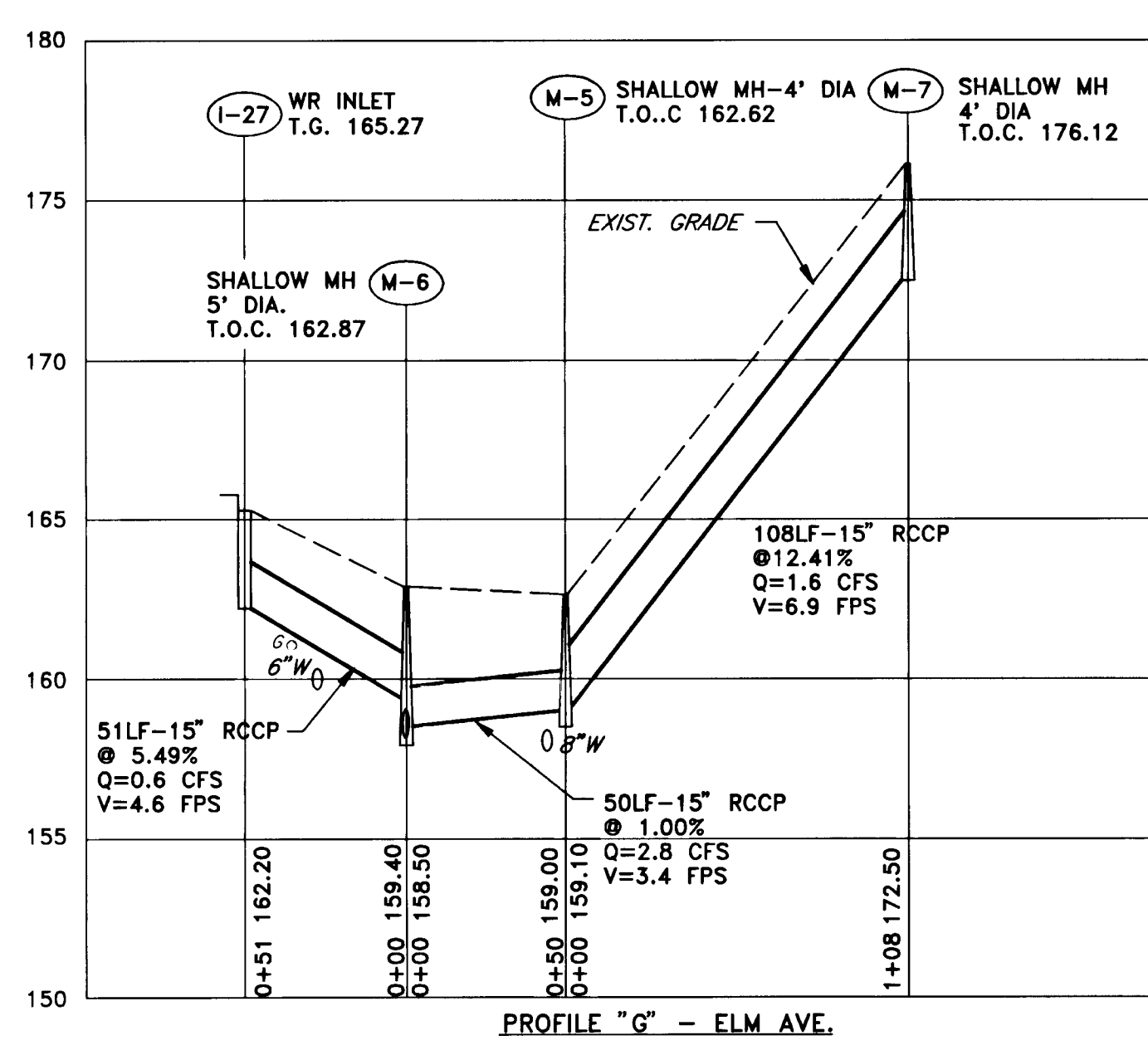
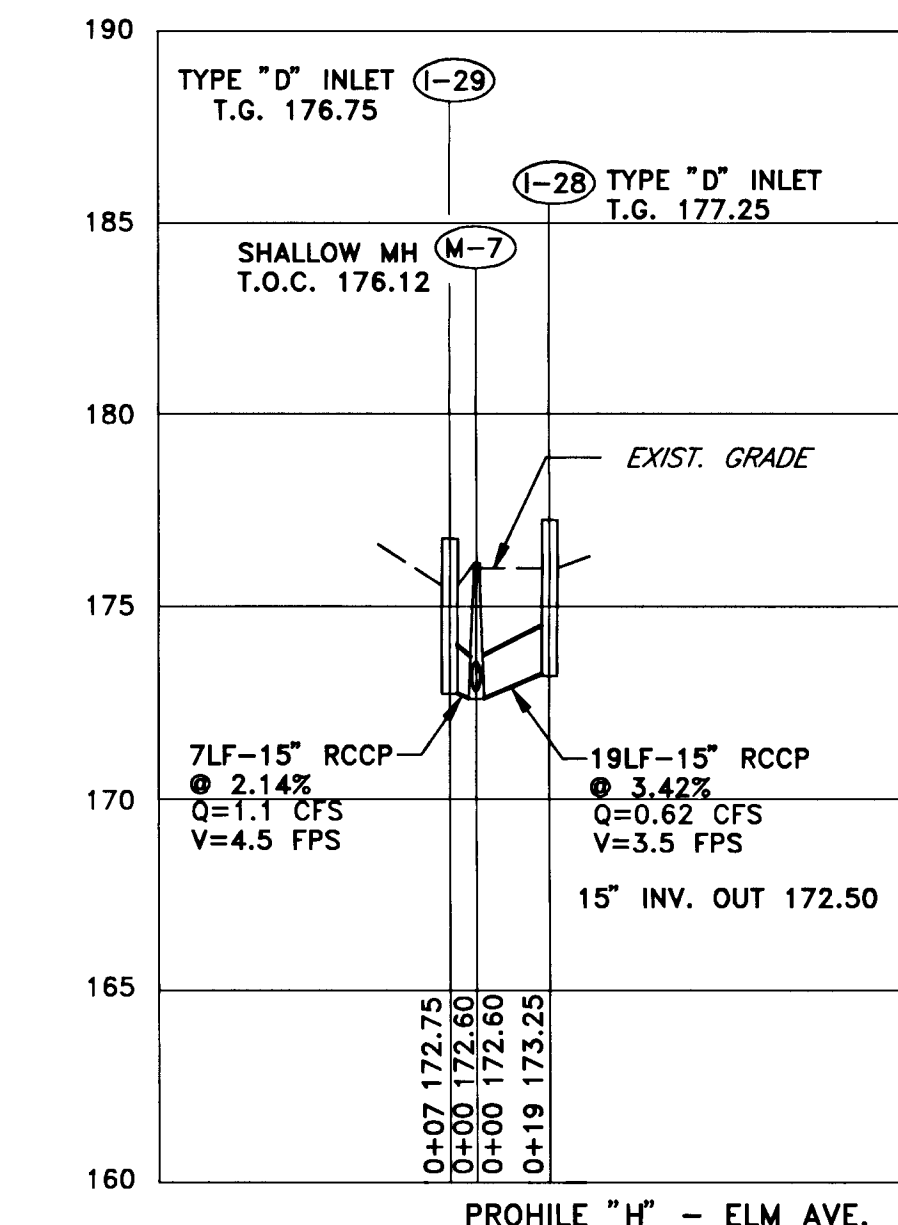
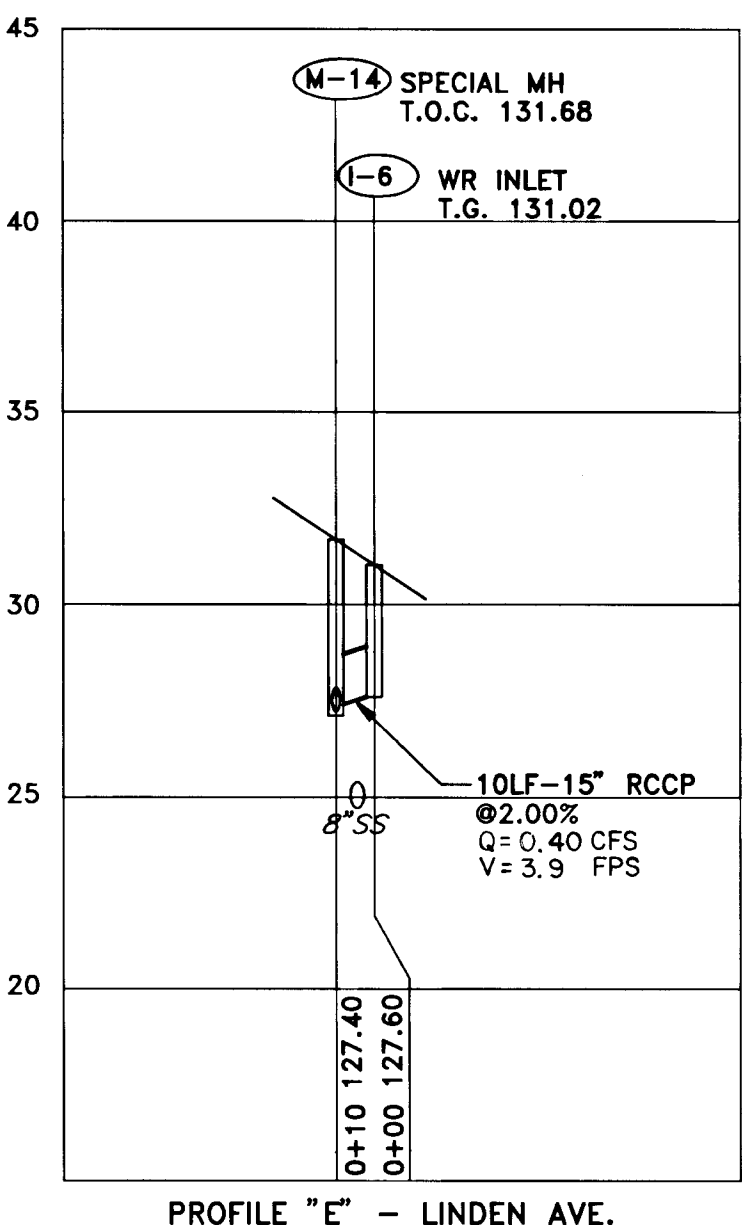
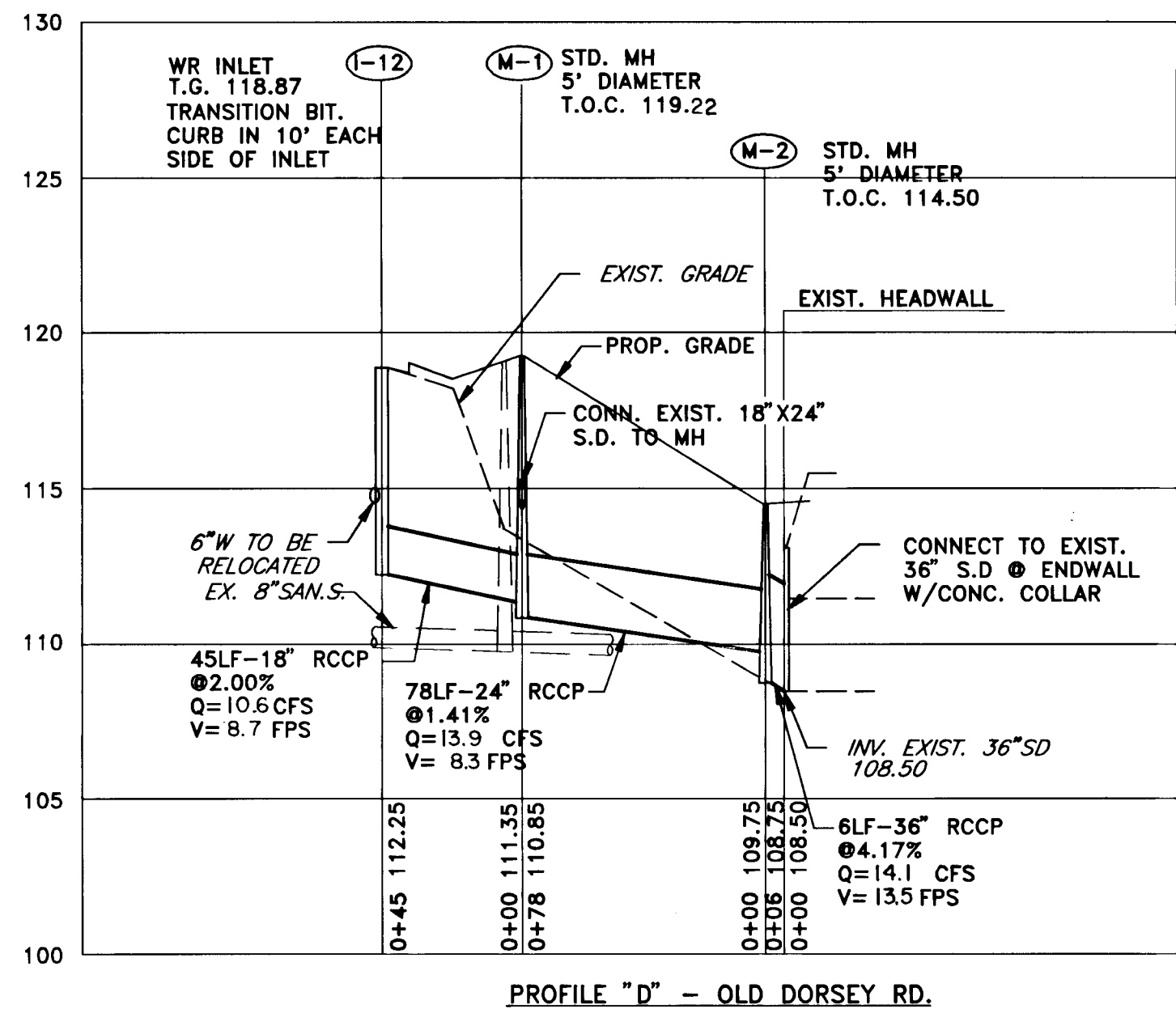
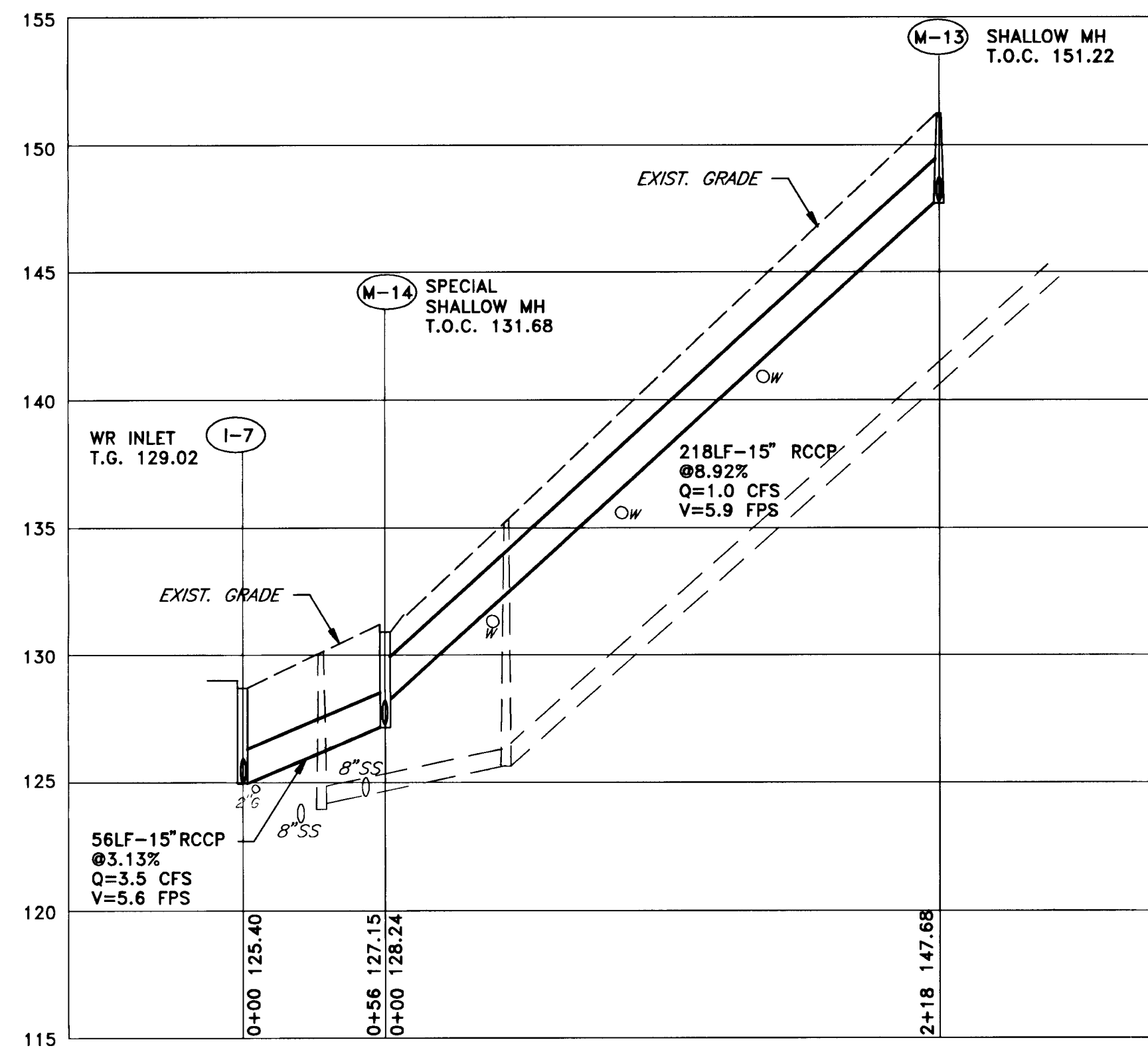
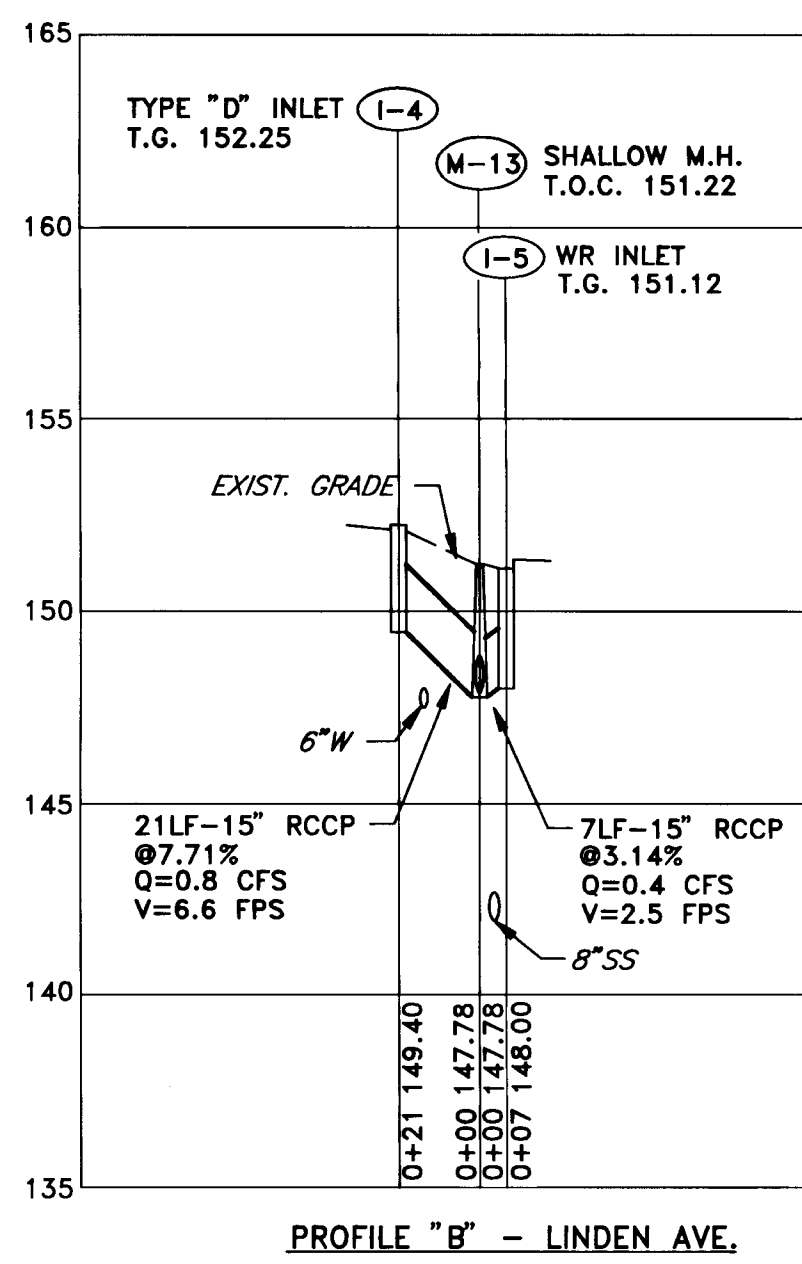
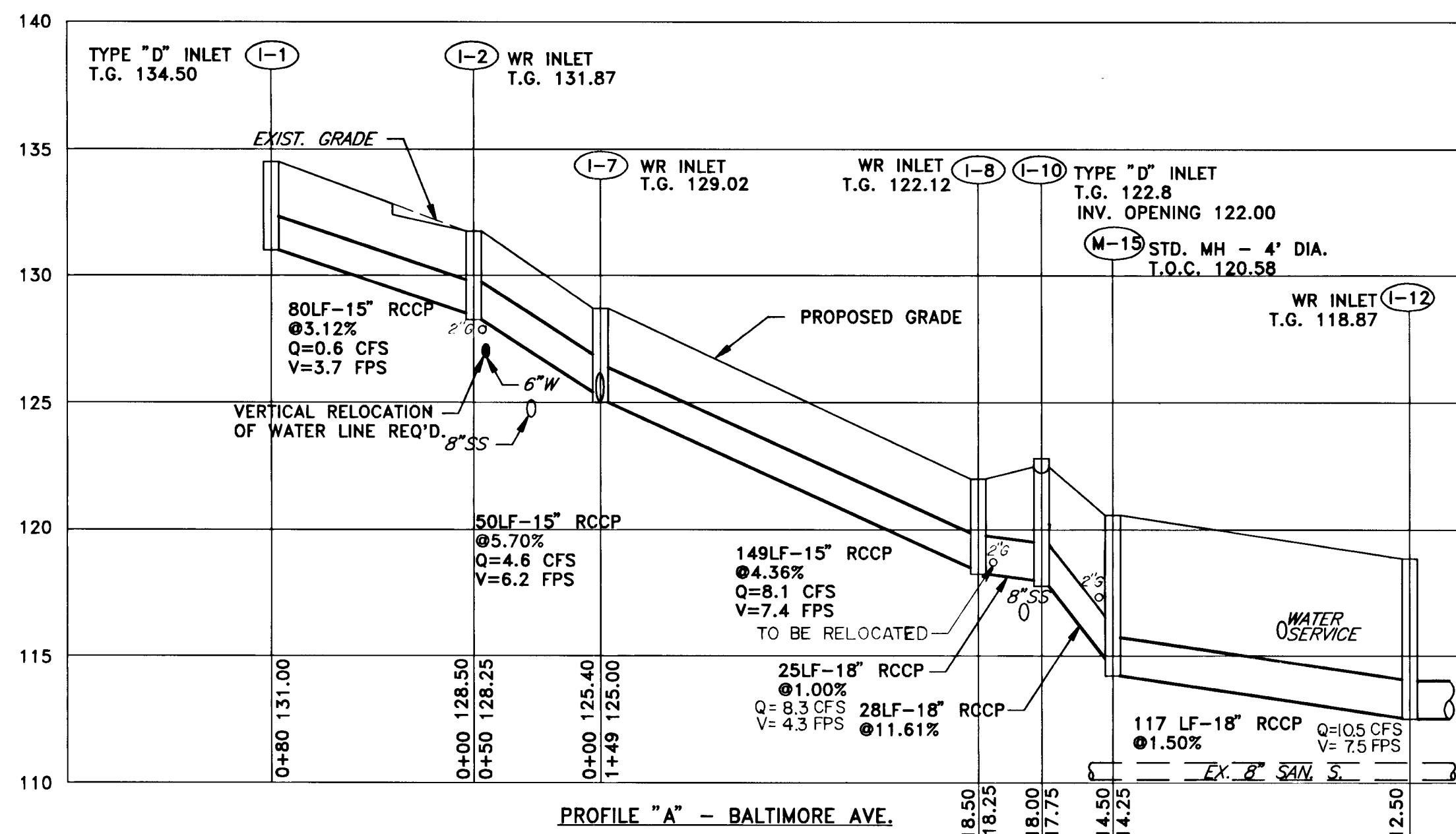
CAPITAL PROJECT NO. D-1100
LENNOX PARK
STORM DRAINAGE IMPROVEMENTS

GRADING, SEDIMENT AND EROSION CONTROL PLAN

SCALE
1" = 30'

SHEET NO.
14 OF 24

DWG. NO.
GR-4



M-6
 $d_{60} = 9"$
 Min. depth of riprap channel = 2.0'
 Apron width = 13'
 Channel width = 1.5'
 Riprap blanket depth = 18'
 Length (La) = 10'
 Slope = 0%
 Outlet Protection - II

M-9
 $d_{60} = 9"$
 Min. depth of riprap channel = 2.25'
 Apron width = 12'
 Channel width = 1.5'
 Riprap blanket depth = 18'
 Length (La) = 10'
 Slope = 0%
 Outlet Protection - II

NOTE: 1. ADJUST FINAL MANHOLE AND GRATE ELEVATIONS TO MATCH FINAL PAVEMENT GRADE. NEW INLETS AND MANHOLES IN PAVED AREAS ARE DESIGNED TO ACCOMMODATE FUTURE 1 1/2" PAVEMENT OVERLAY
 2. TYPE 'D' INLETS SHALL ONLY HAVE OPENINGS ON SIDE(S) WHICH RECEIVE DRAINAGE.

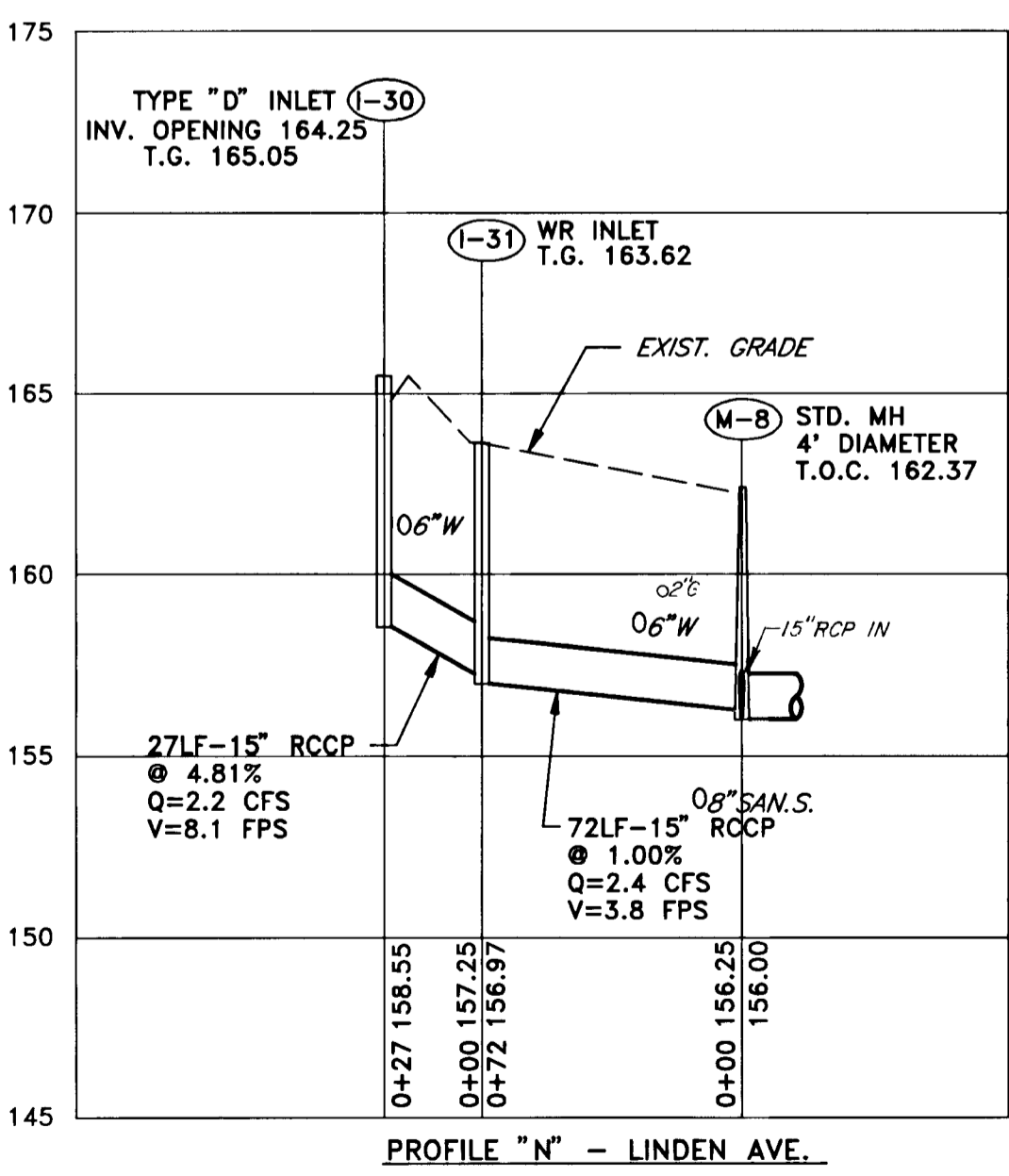
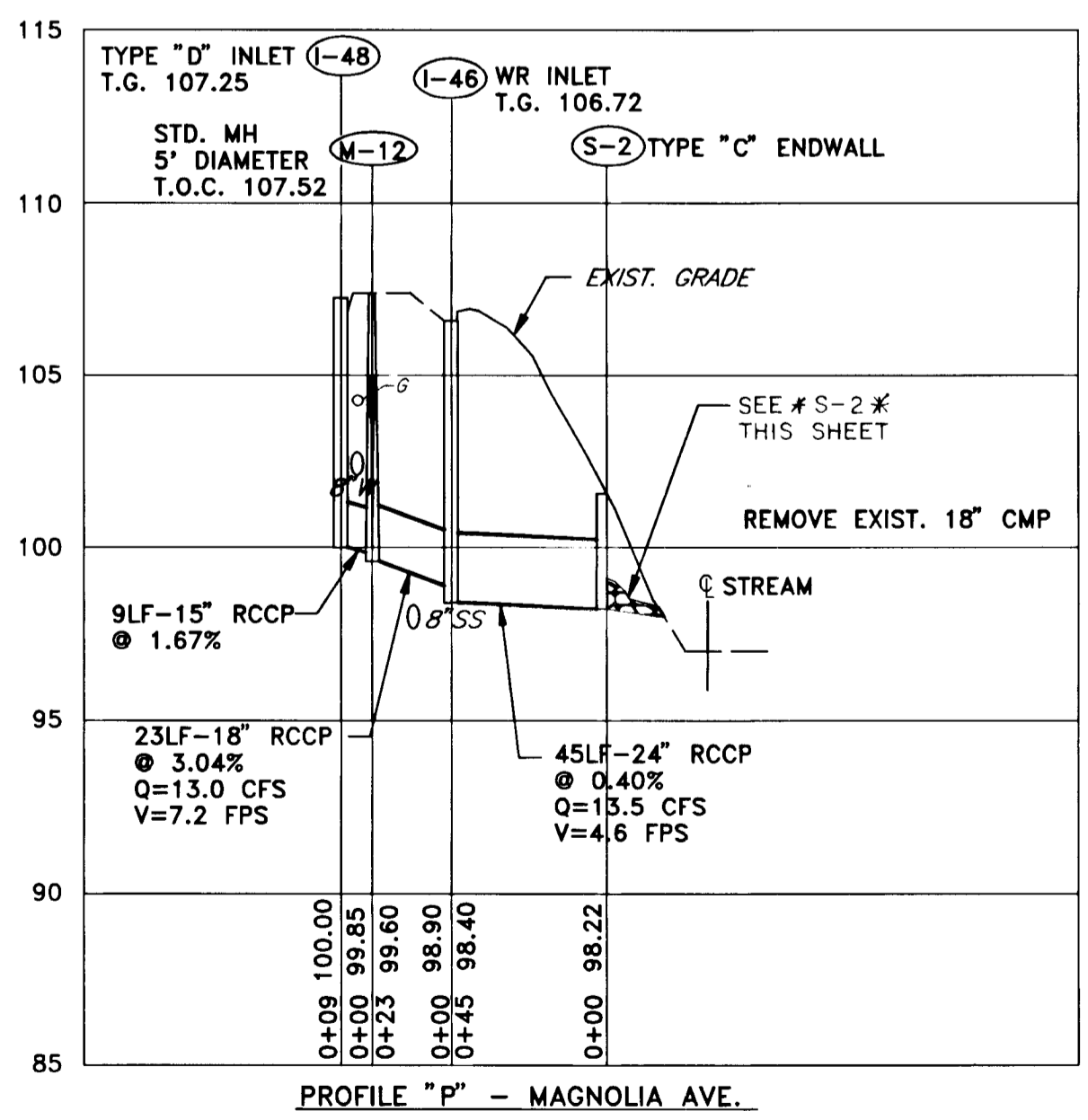
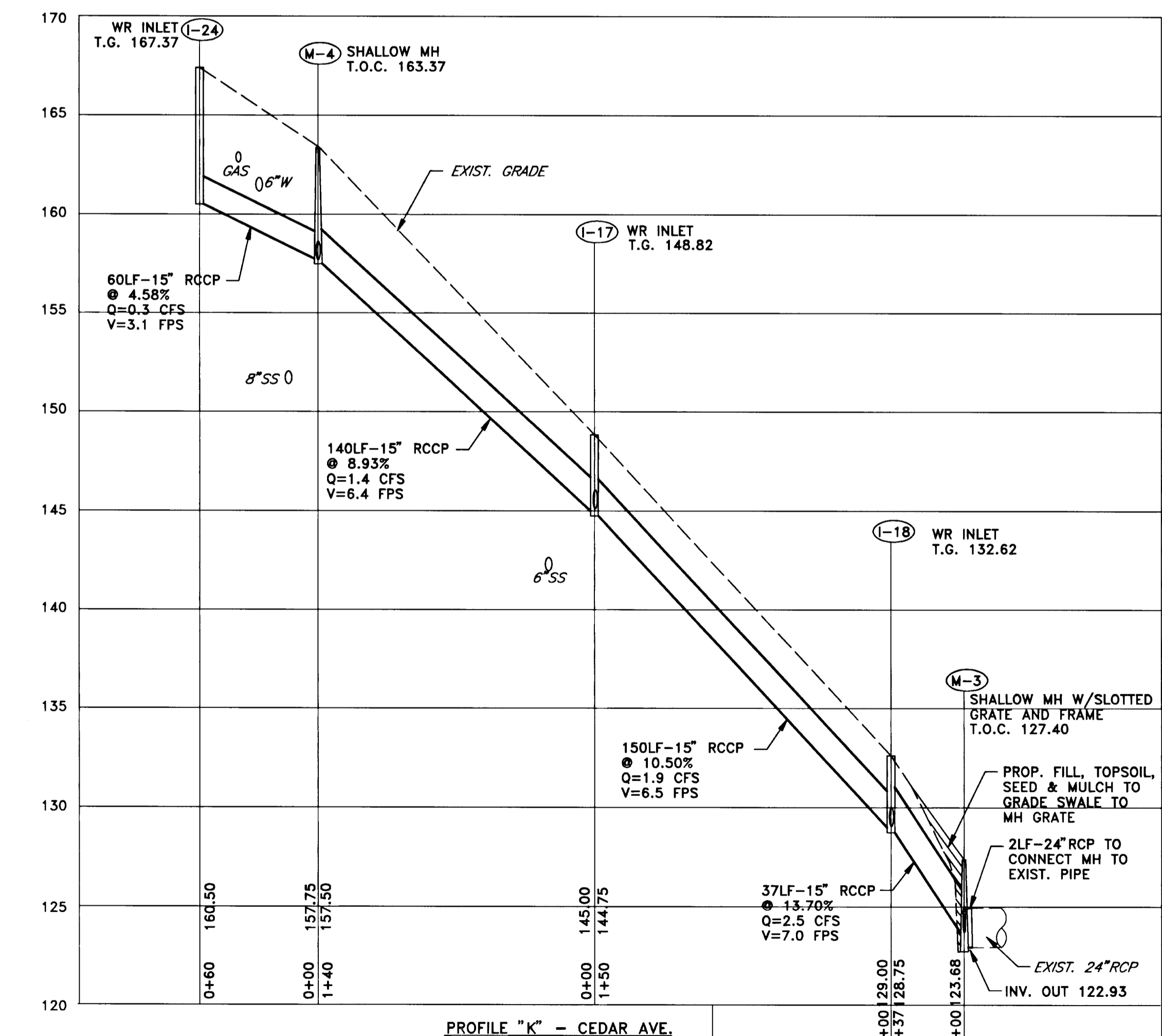
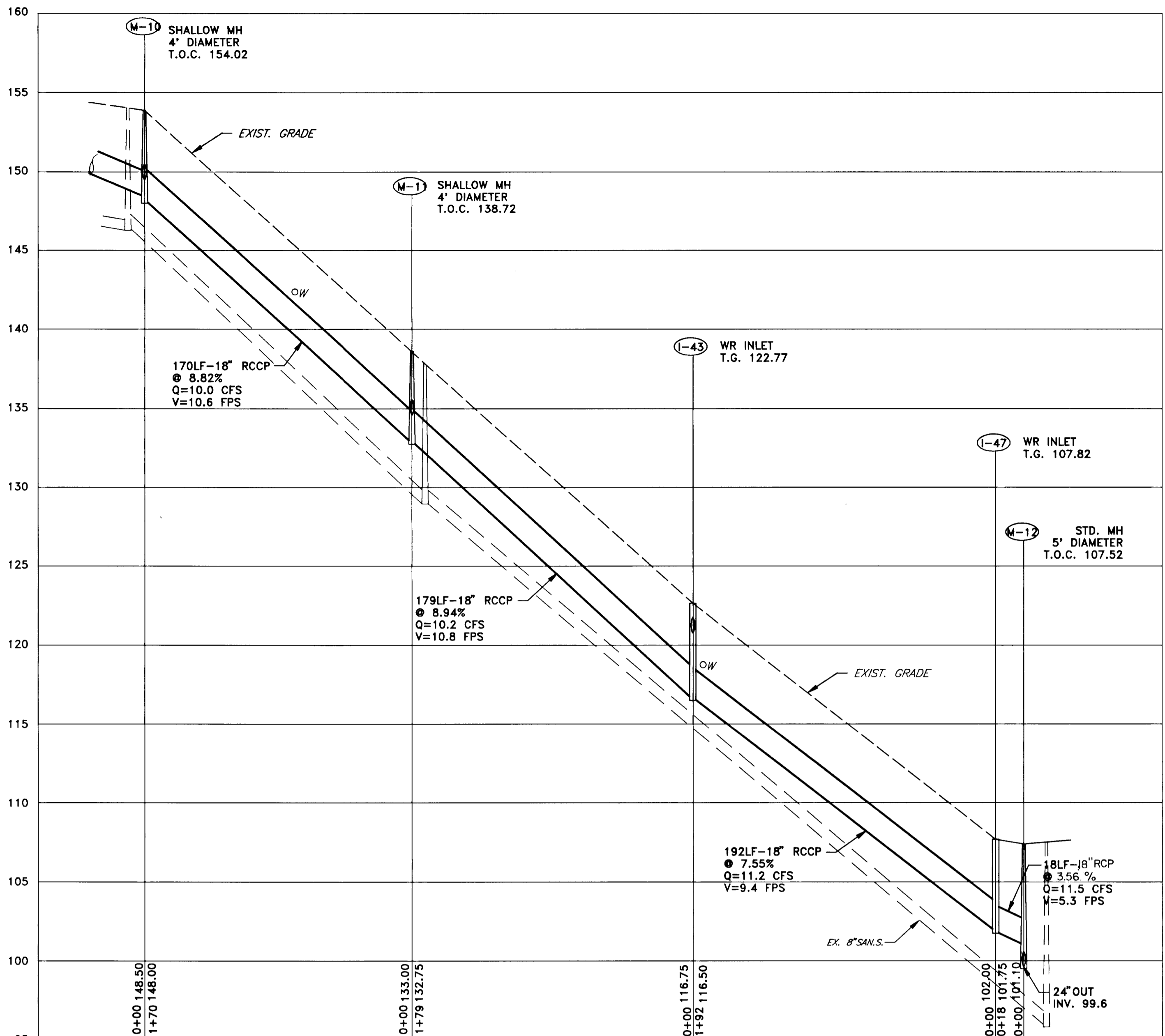
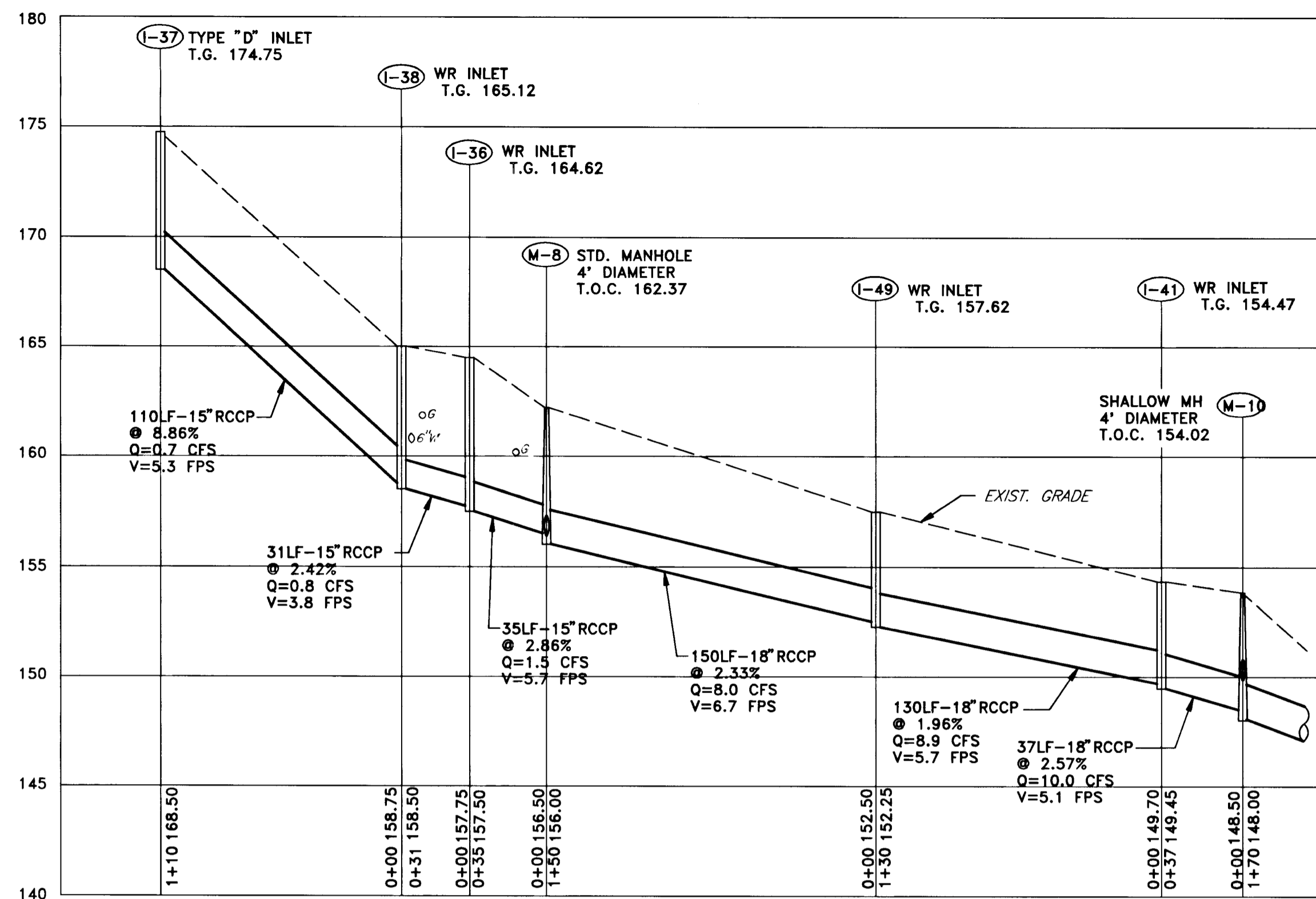
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works - DATE
 Chief, Bureau of Engineering - DATE
 Chief, Roads, Bridges, & Storm Drainage Div. - DATE
 Chief, Bureau of Highways - DATE

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 Acer Engineers & Consultants, Inc.
 201 South Cleveland Avenue, Suite 304
 Hagerstown, Maryland 21740
 Tel 301-791-1100

DES: R.D.P.	RD	ADDED EXISTING GAS LINES TO PROFILES "A", "G", "J", "M"	8/15/96
DRN: A.C.M.			
CHK: R.D.P.			
DATE: 01/93	BY	NO	REVISION

LENNOX PARK
 A RESIDENTIAL COMMUNITY
 600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100
 LENNOX PARK
 STORM DRAINAGE IMPROVEMENTS
 STORM DRAIN PROFILES
 SCALE: H:1"=50' V:1"=5'
 SHEET: 15 OF 24
 DWG. NO.: PR-1



S-2

d = 9"
 Min. depth of riprap channel = 2.5'
 Apron width = 17'
 Channel width = 2.0'
 Riprap blanket depth = 18"
 Length (L_a) = 15'
 Slope = 0%
 Outlet Protection - II

NOTE: 1. ADJUST FINAL MANHOLE AND GRATE ELEVATIONS TO MATCH FINAL PAVEMENT GRADE. NEW INLETS AND MANHOLES IN PAVED AREAS ARE DESIGNED TO BE 1 1/2" ABOVE EXISTING GRADE TO ACCOMMODATE FUTURE 1 1/2" PAVEMENT OVERLAY.
 2. TYPE 'D' INLETS SHALL ONLY HAVE OPENINGS ON SIDE(S) THAT RECEIVE DRAINAGE.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

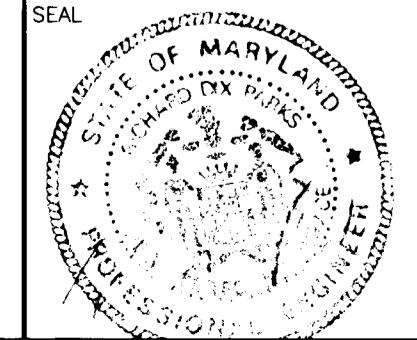
Conor A. Lewis 6/5/96
 DIRECTOR OF PUBLIC WORKS - DATE

Paul J. Sisson 6/5/96
 CHIEF, BUREAU OF ENGINEERING - DATE

Franklin Anderson 6/14/96
 CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

Christina M. Sisson 6/5/96
 CHIEF, BUREAU OF HIGHWAYS - DATE

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 Hagerstown, Maryland 21740
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DES: R.D.P.	RDP	ADDED EXISTING GAS LINES TO PROFILES "N, O, P"	8/15/96
DRN: A.C.M.			
CHK: R.D.P.			
DATE: 01/93			

LENNOX PARK
 A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100

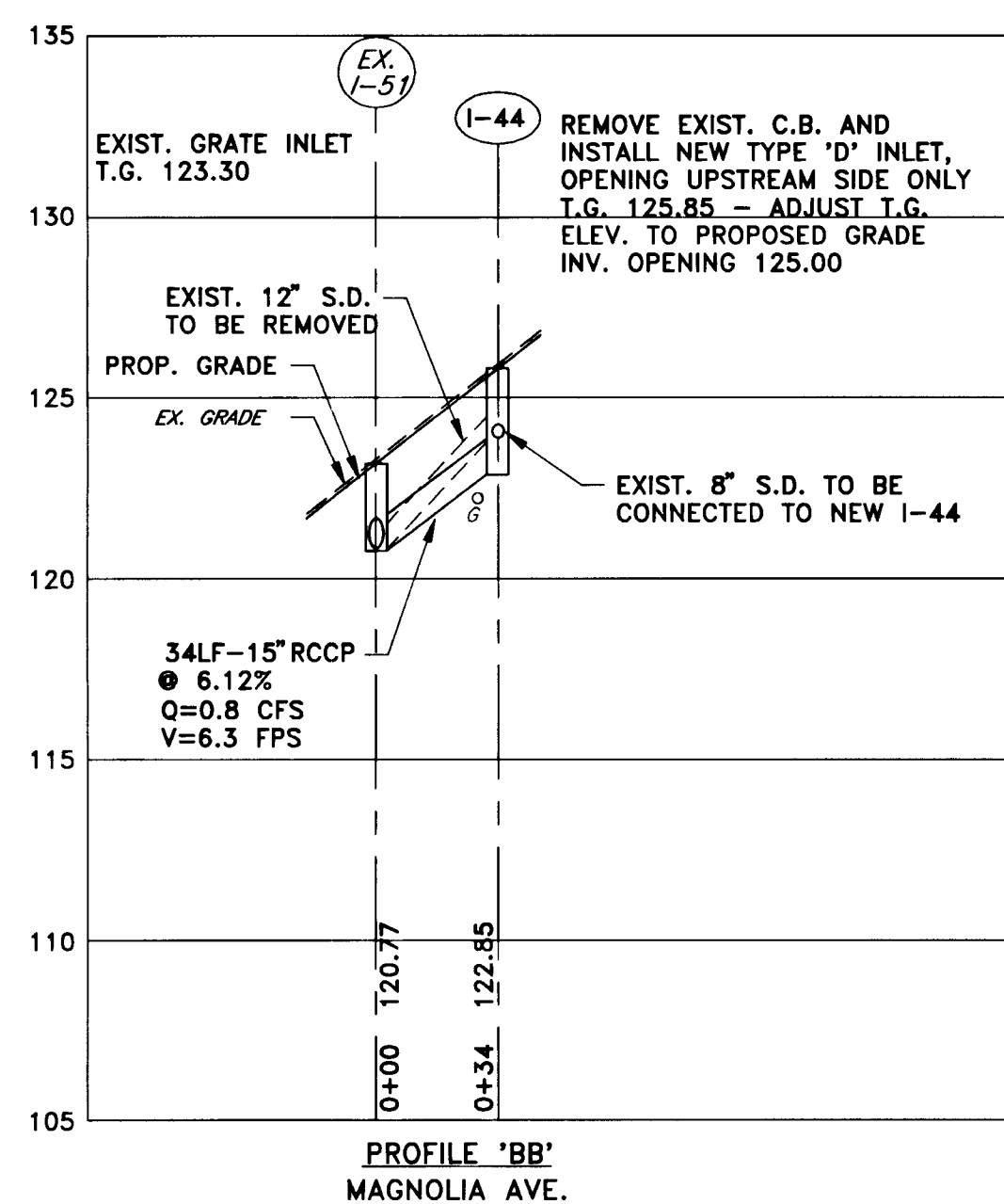
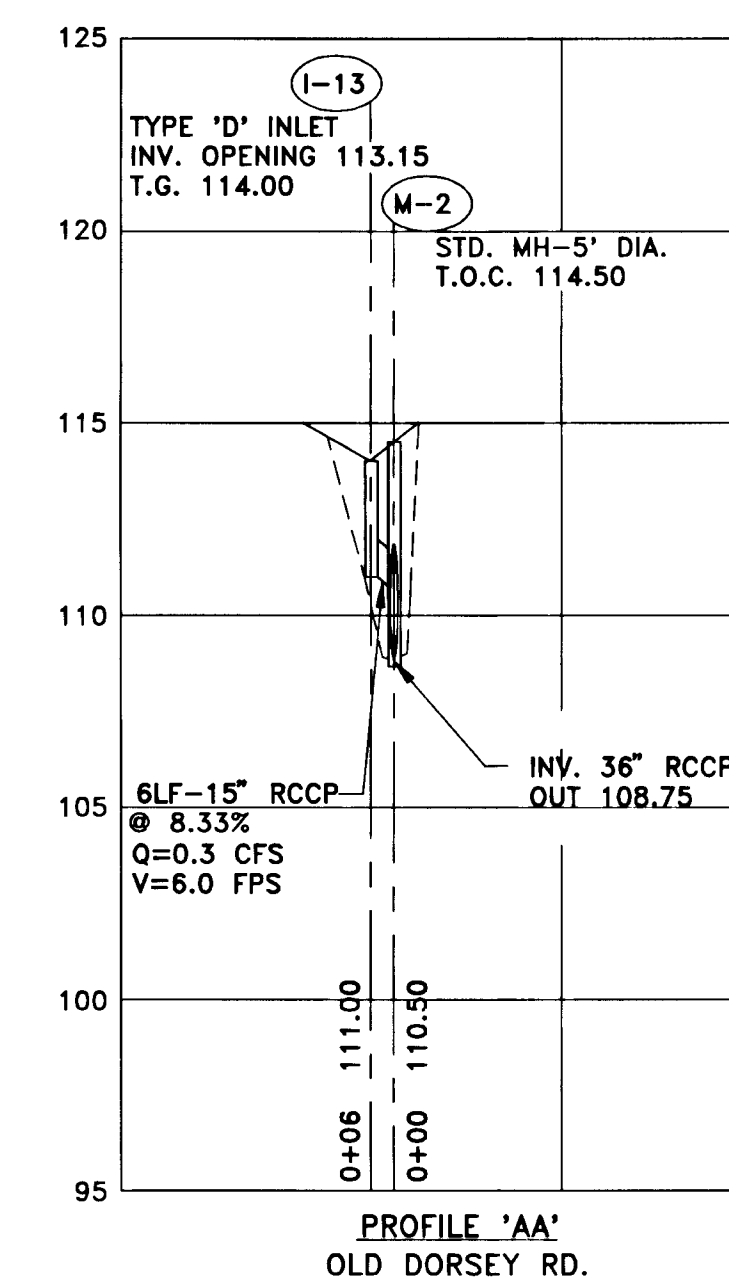
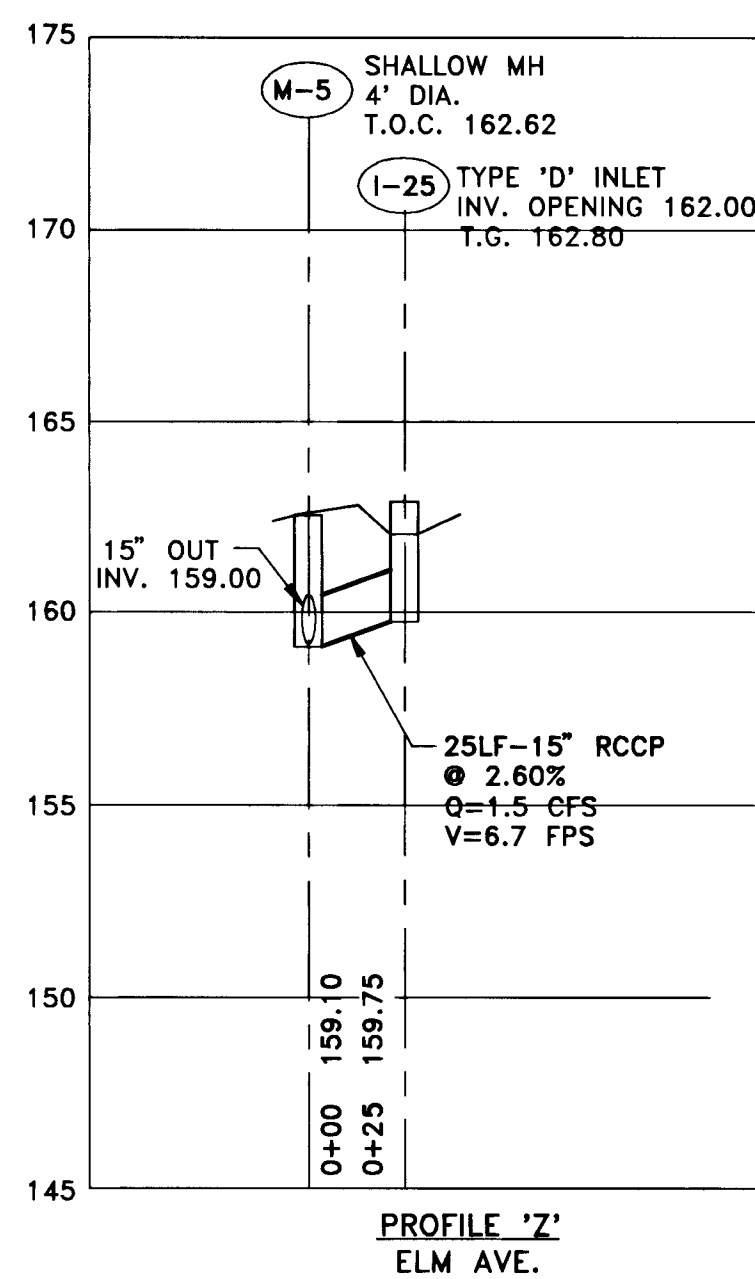
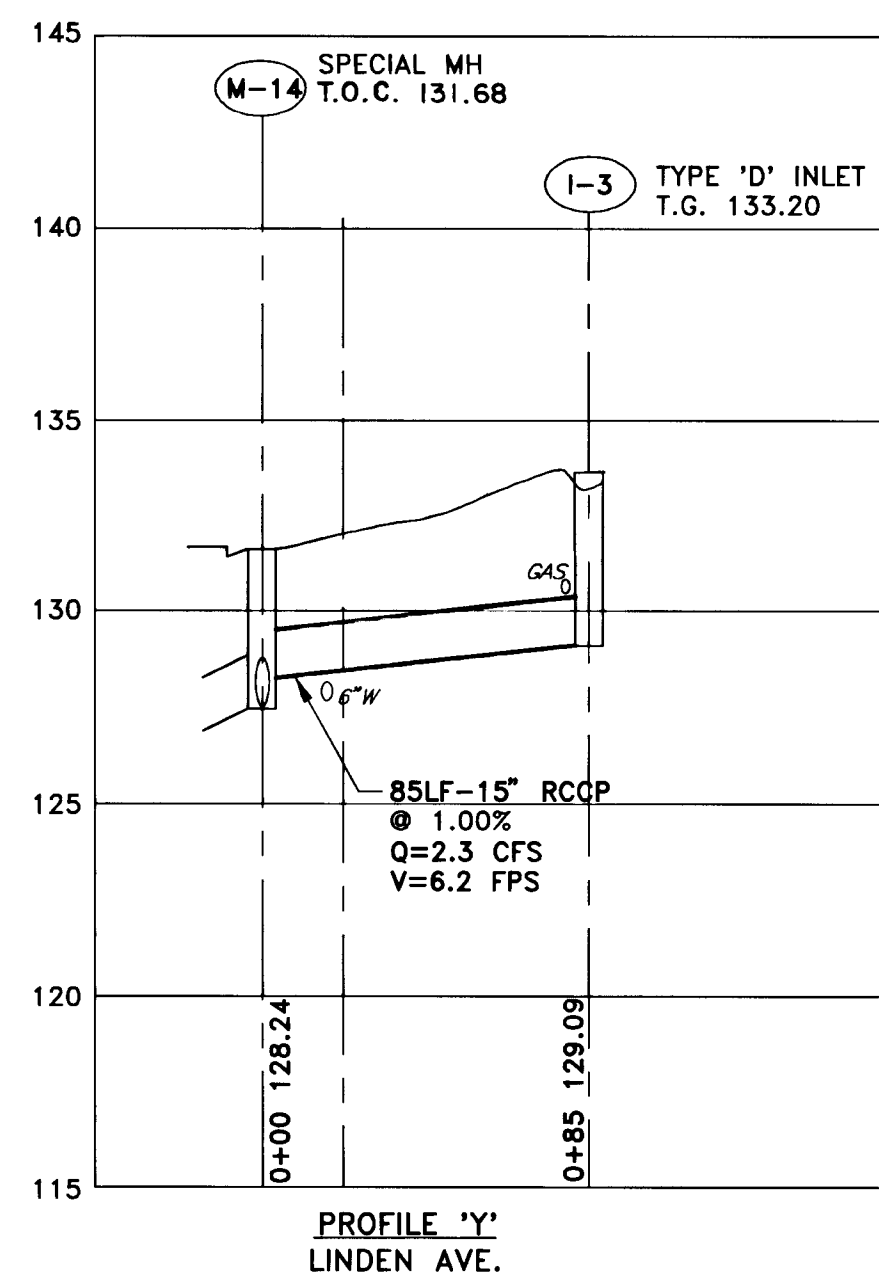
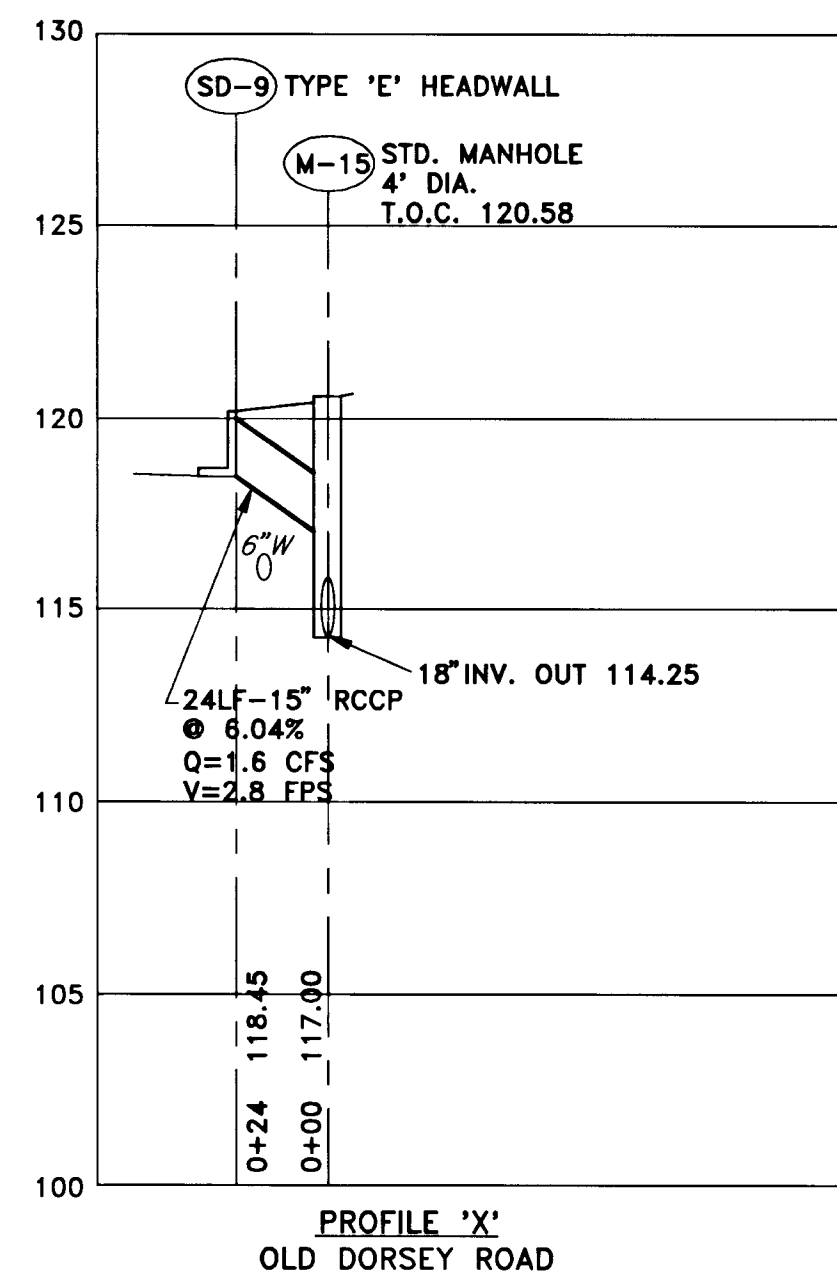
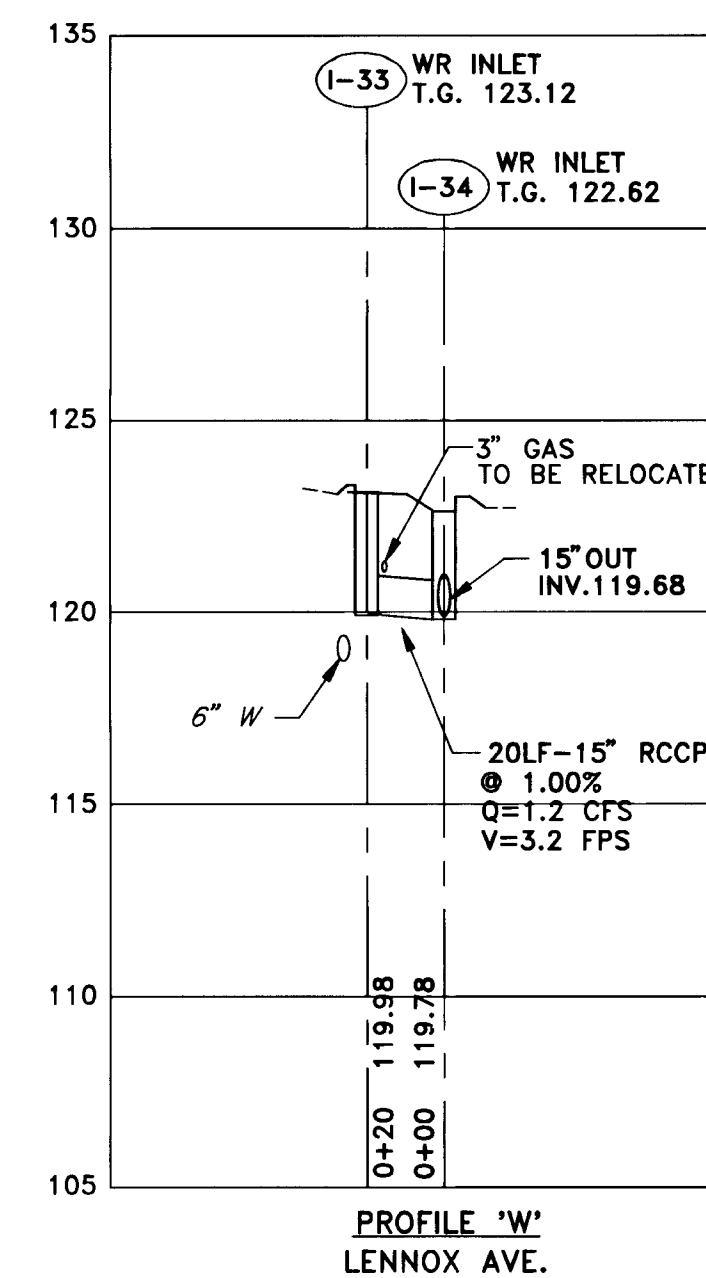
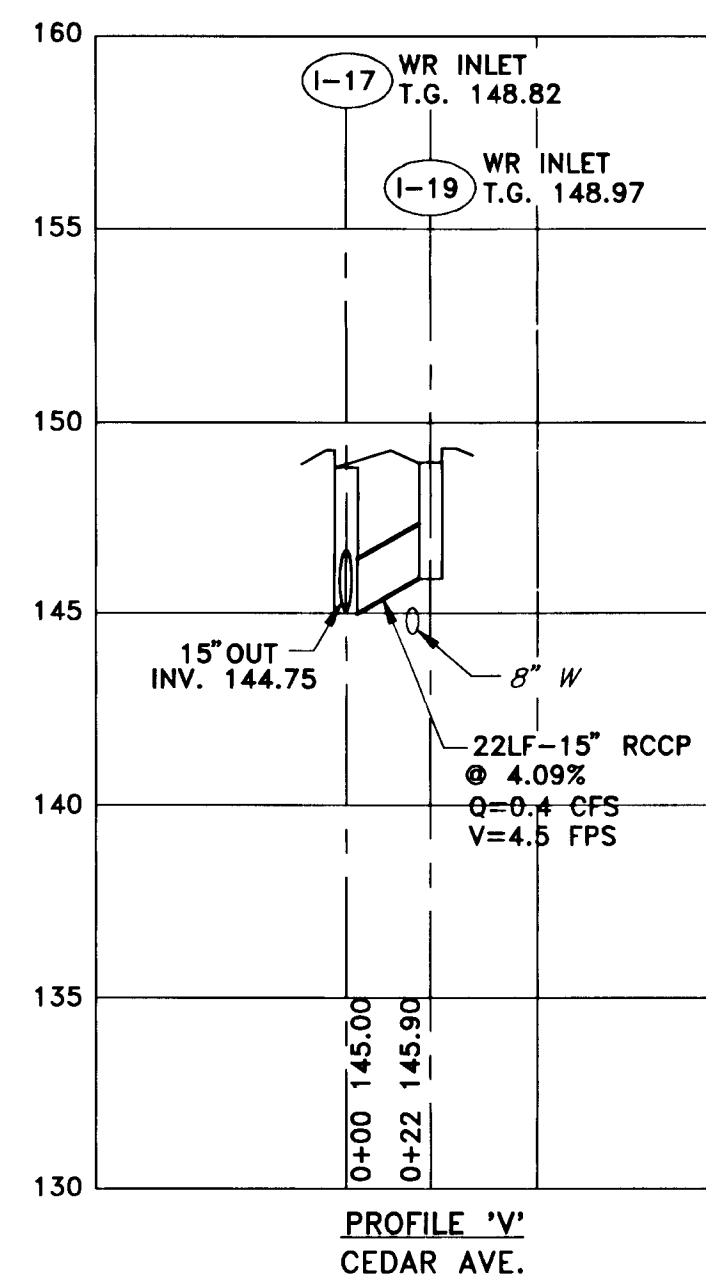
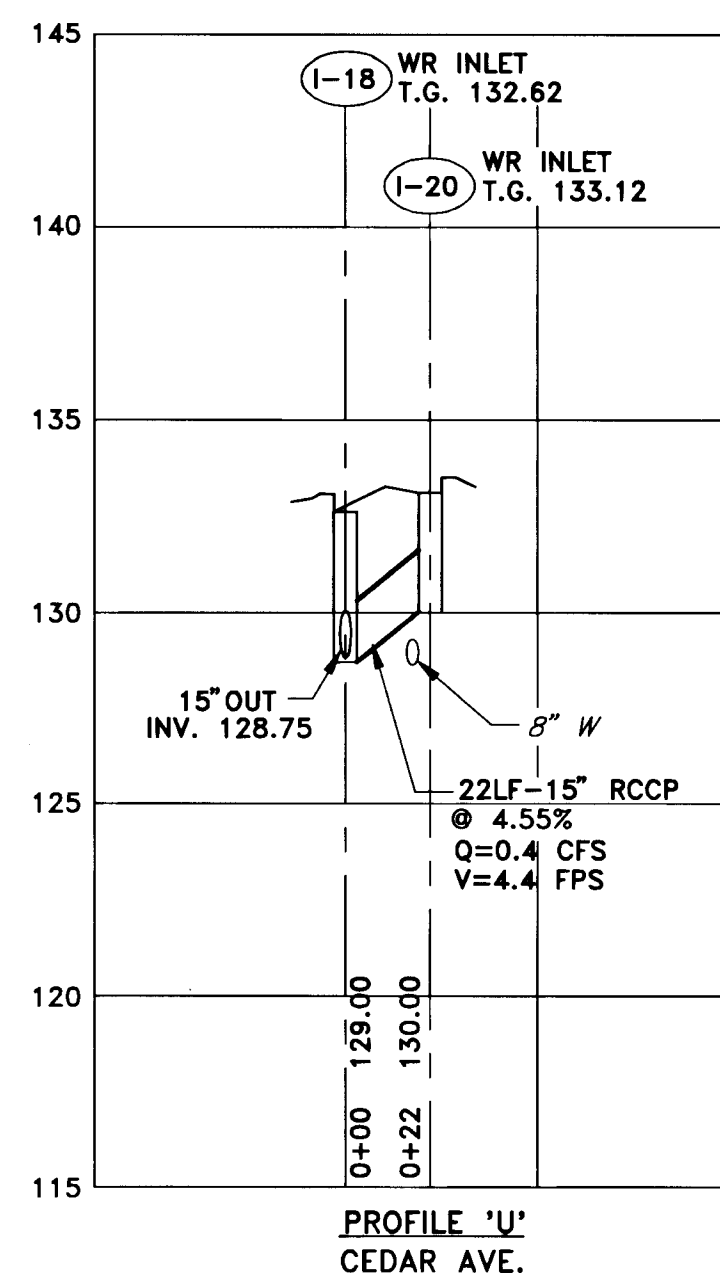
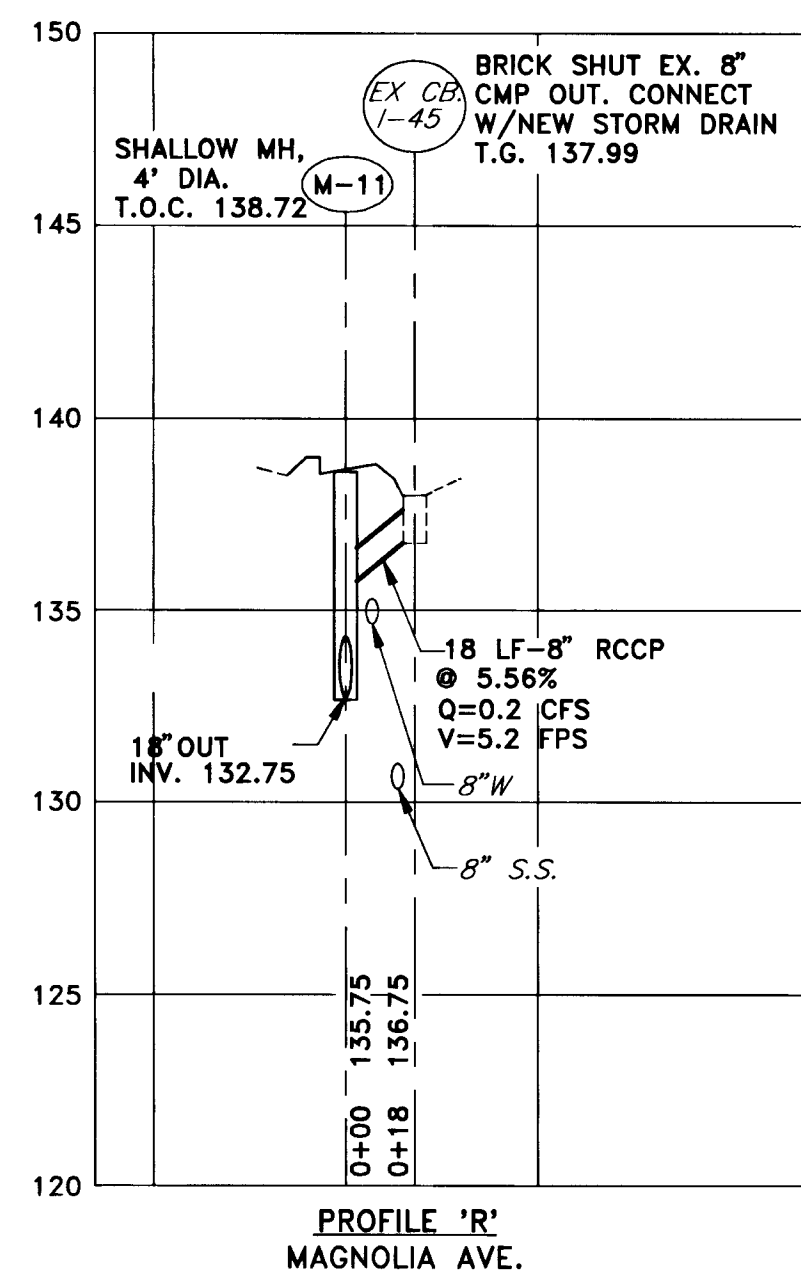
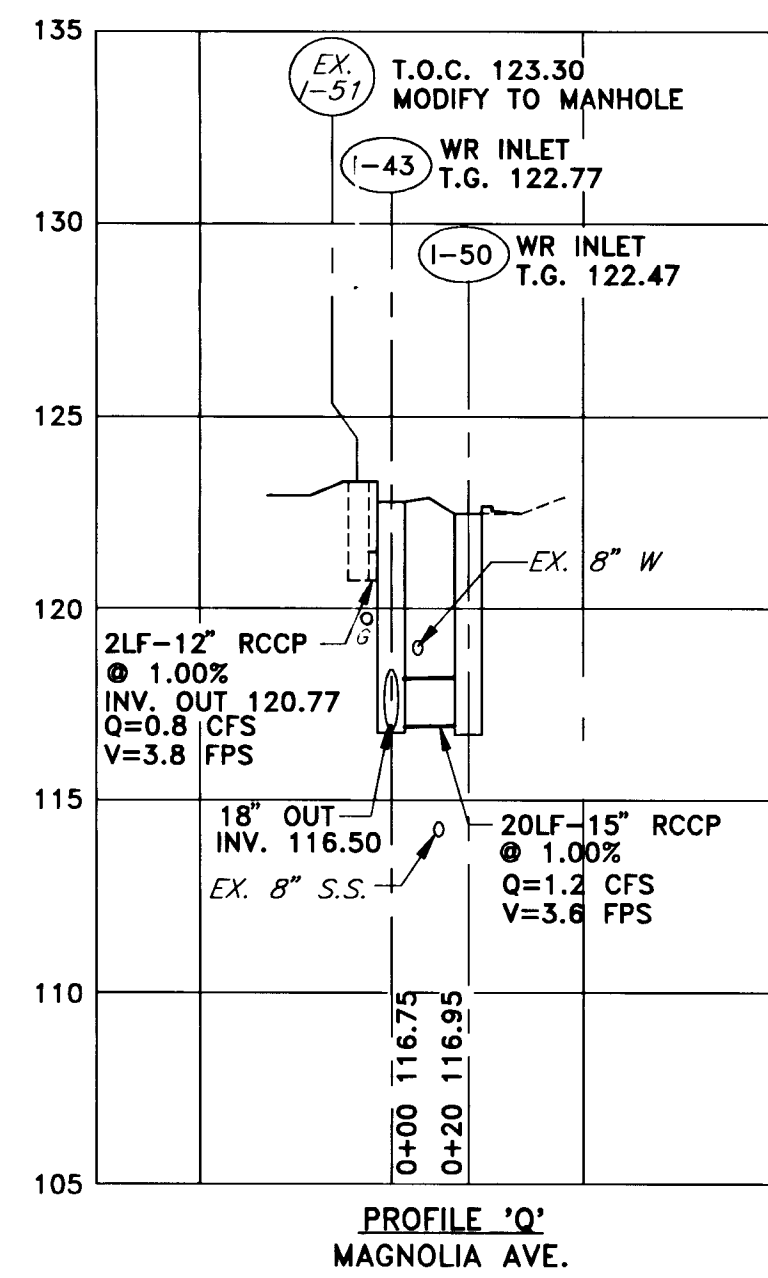
LENNOX PARK
 STORM DRAINAGE IMPROVEMENTS

STORM DRAIN PROFILES

SCALE
 H:1"=50' V:1"=5'

SHEET
 16 OF 24

DWG. NO.
 PR-2



NOTE: 1. ADJUST FINAL MANHOLE AND GRATE ELEVATIONS TO MATCH FINAL PAVEMENT GRADE. NEW INLETS AND MANHOLES IN PAVED AREAS ARE DESIGNED TO BE 1 1/2" ABOVE EXISTING GRADE TO ACCOMMODATE FUTURE 1 1/2" PAVEMENT OVELAY.
2. TYPE 'D' INLETS SHALL ONLY HAVE OPENINGS ON THE SIDE(S) WHICH RECEIVE DRAINAGE.

02/29/96 13752949

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
DIRECTOR OF PUBLIC WORKS - DATE

[Signature] 6/5/96
CHIEF, BUREAU OF ENGINEERING - DATE

[Signature] 6/4/96
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

[Signature] 6/5/96
CHIEF, BUREAU OF HIGHWAYS - DATE

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201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES:	R.D.P.	ADD	ADDED EXISTING GAS LINES TO PROFILES "Q, BB"	8/5/96
DRN:	A.C.M.			
CHK:	R.D.P.			
DATE:	01/93	BY	NO	REVISION

LENNOX PARK
A RESIDENTIAL COMMUNITY

CAPITAL PROJECT NO. D-1100

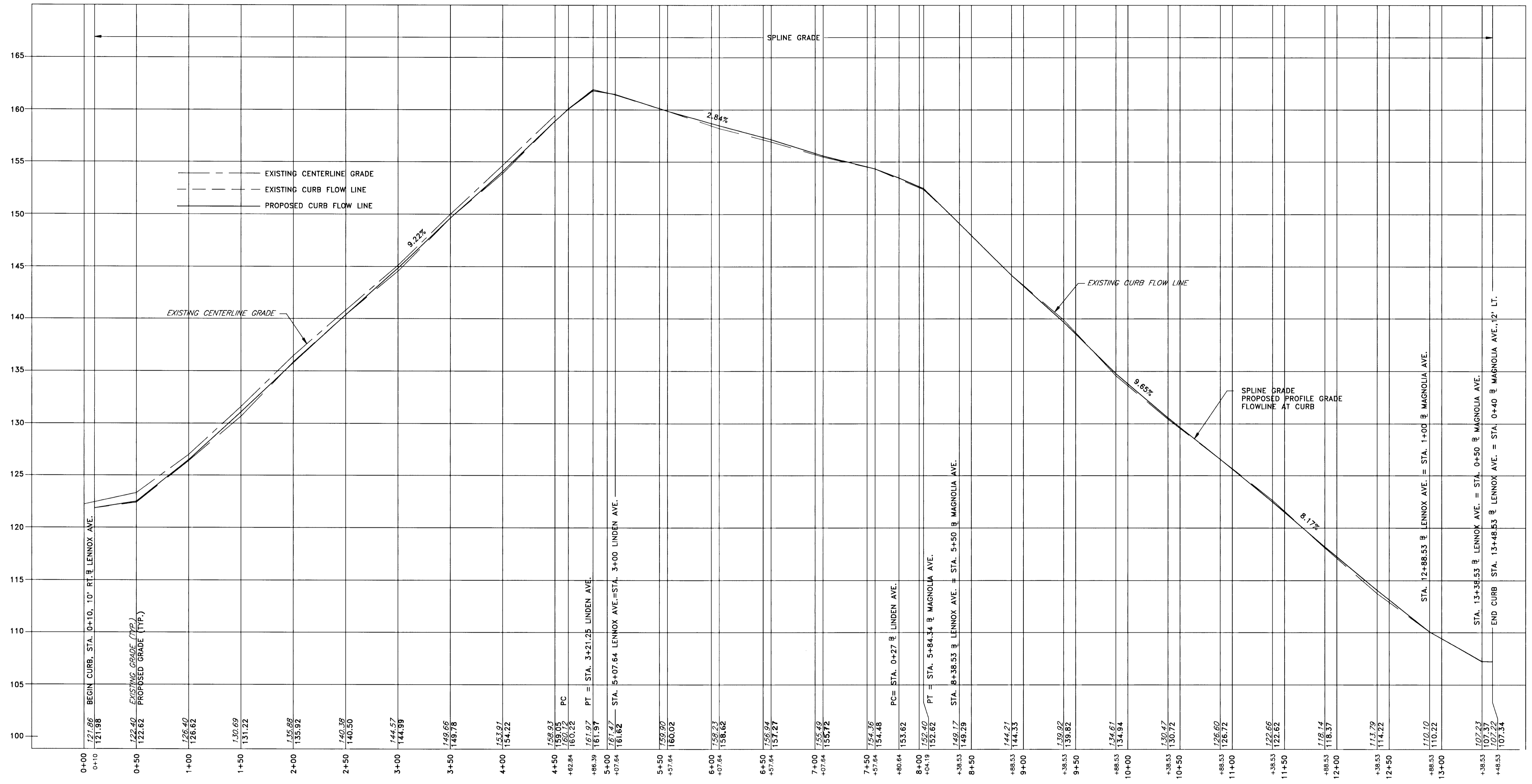
LENNOX PARK
STORM DRAIN IMPROVEMENTS

SCALE
H:1"=50', V:1"=5'

SHEET
17 OF 24

DWG. NO.
PR-3

600' SCALE MAP NO. 43 BLOCK NO. 6



FLOWLINE AT CURB - LENNOX AVE. RIGHT TO MAGNOLIA AVE. LEFT

HOR: 1" = 50'
VER: 1" = 5'

NOTE: ALL ELEVATIONS SHOWN ARE TO FLOWLINE ASSUMING A 1 1/2" OVERLAY ON EXISTING ROAD SURFACE BY OTHERS

02/26/96 13792050

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

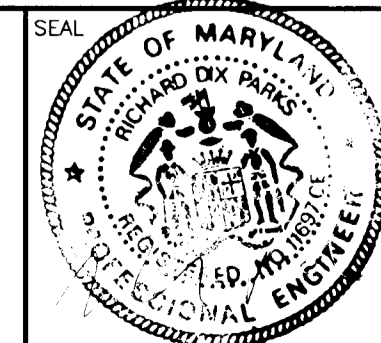
James R. Lee
DIRECTOR OF PUBLIC WORKS - DATE

Thomas M. Cole
CHIEF, BUREAU OF ENGINEERING - DATE

Elizabeth Anderson
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

Paul Spon
CHIEF, BUREAU OF HIGHWAYS - DATE

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Acer Engineers & Consultants, Inc.
201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES:	R.D.P.
DRN:	A.C.M.
CHK:	R.D.P.
DATE:	01/93
BY:	NO
REVISION:	
DATE:	

LENNOX PARK
A RESIDENTIAL COMMUNITY

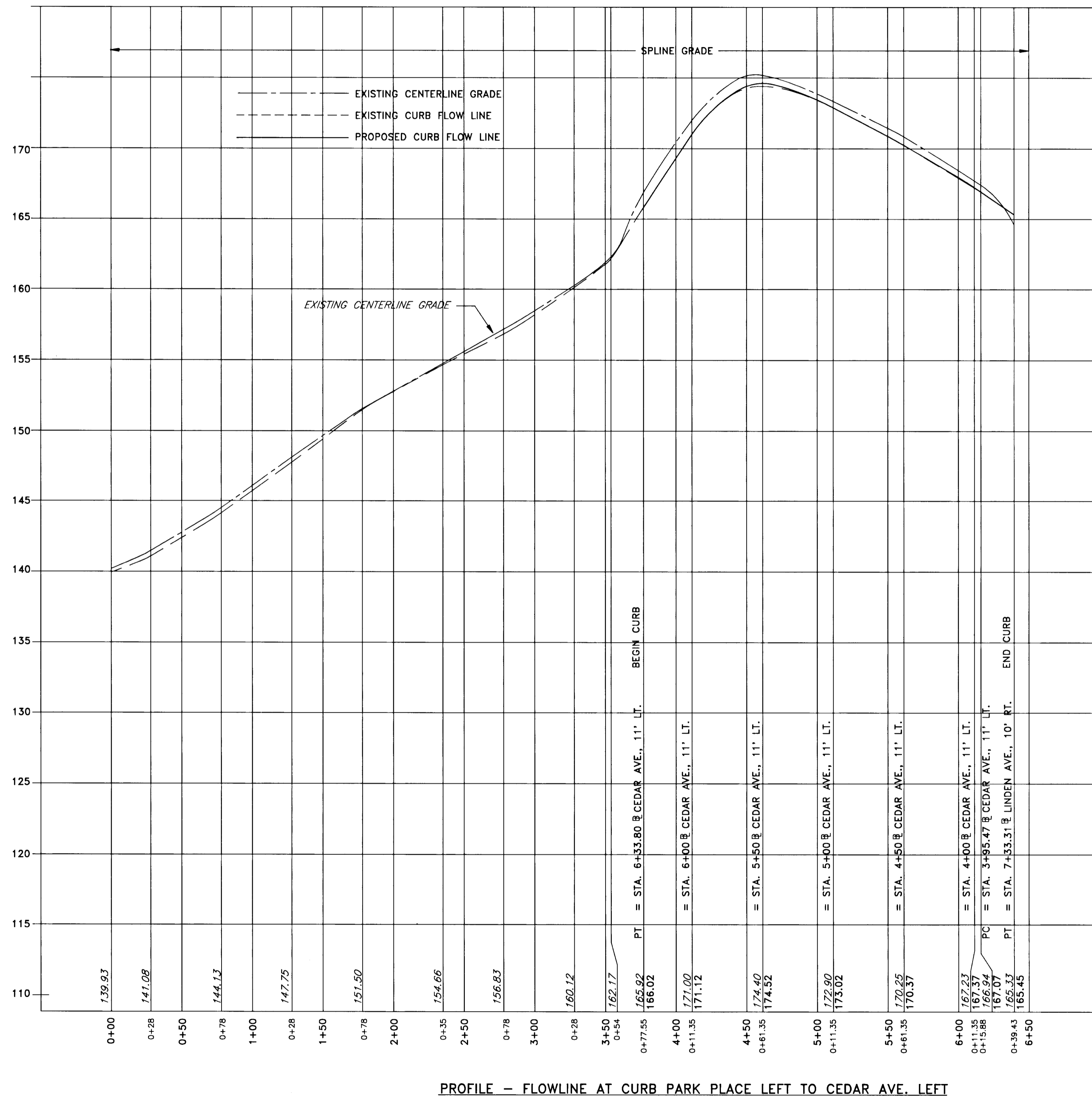
600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100
LENNOX PARK
STORM DRAIN IMPROVEMENTS
CURB FLOW LINE PROFILE

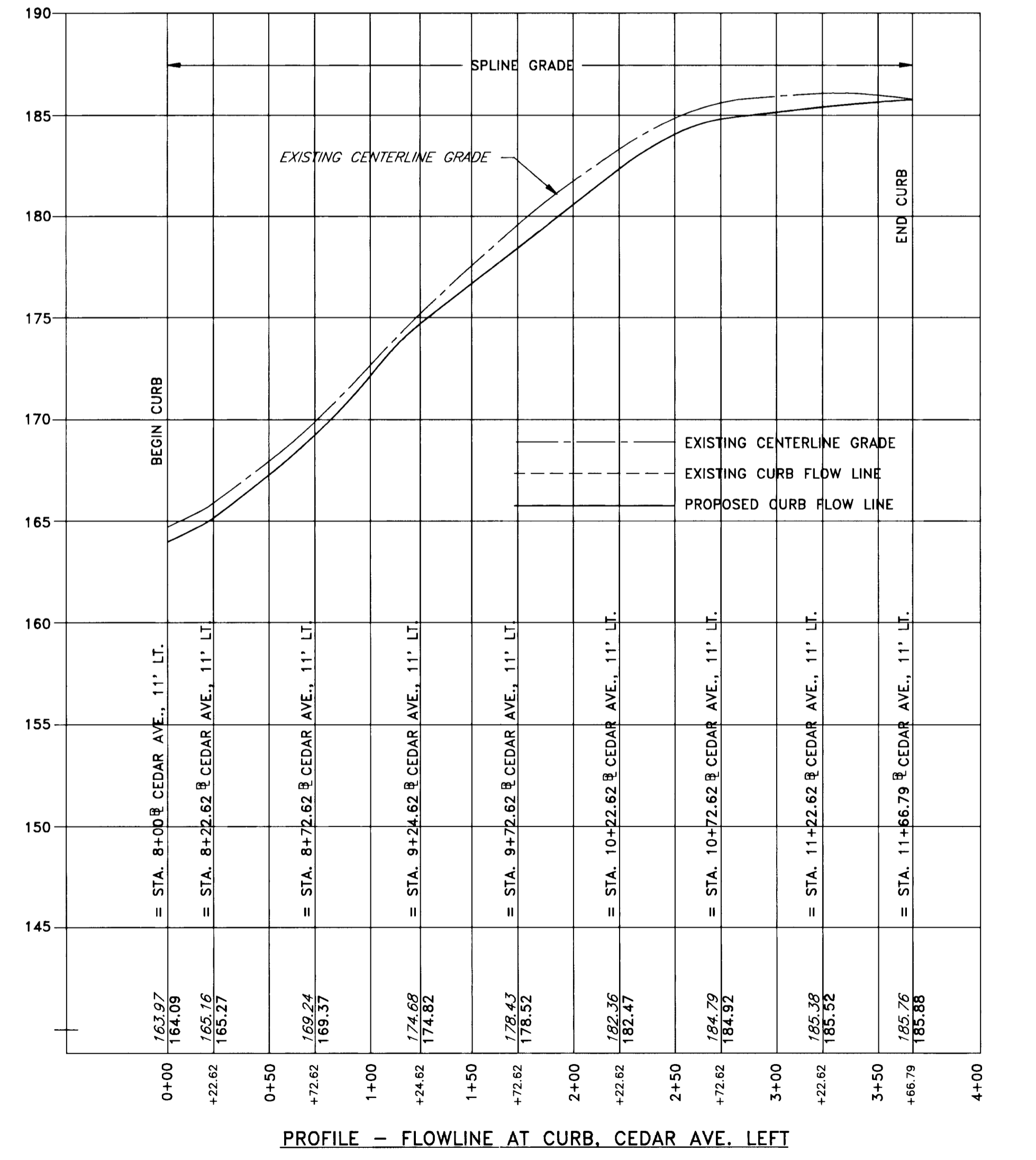
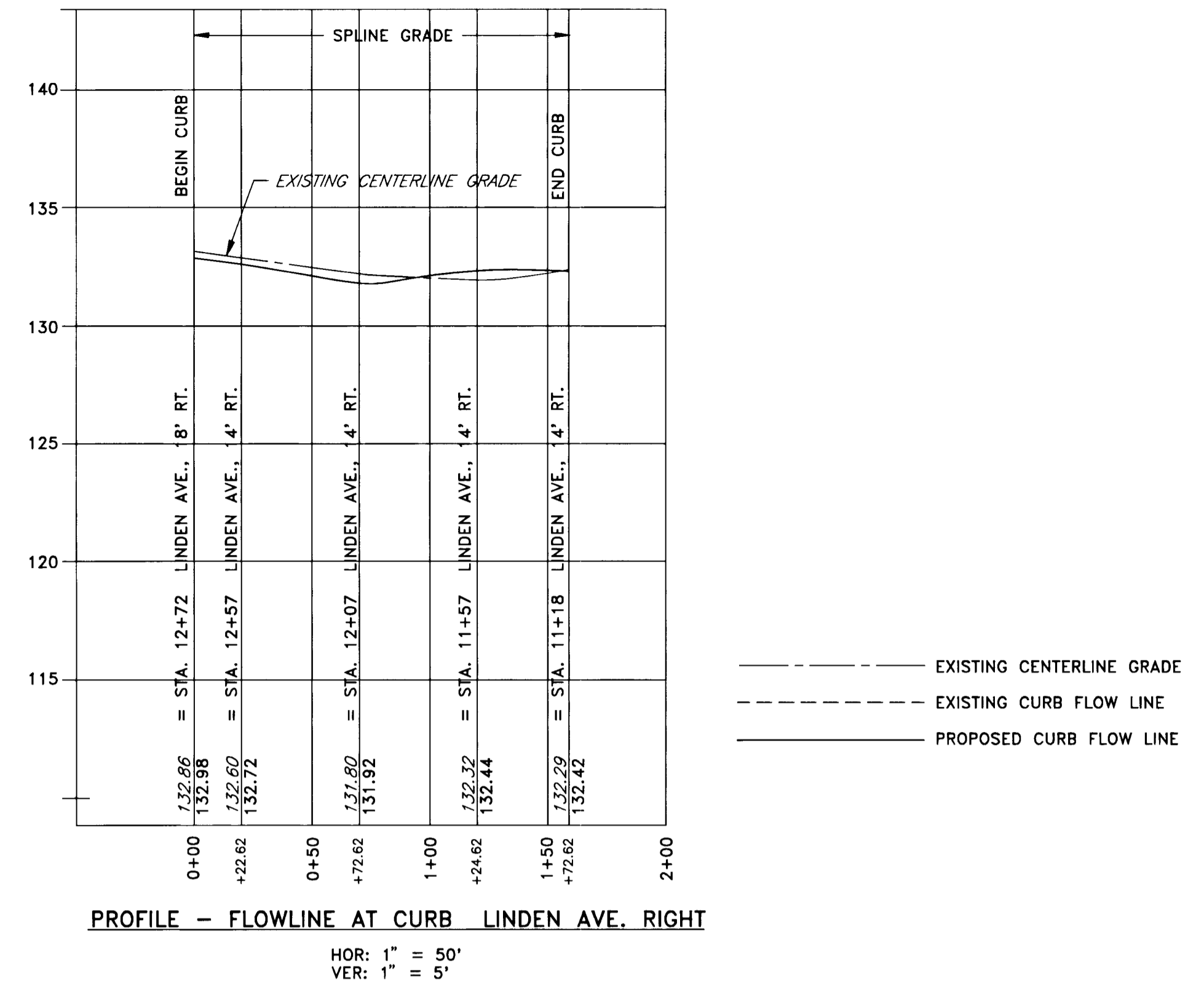
SCALE
H:1"=50', V:1"=5'

SHEET
19 OF 24

DWG. NO.
PR-4



HOR: 1" = 50'
 VER: 1" = 5'
 NOTE: ALL ELEVATIONS SHOWN ARE TO FLOWLINE ASSUMING A 1 1/2" OVERLAY (BY OTHERS)



02/29/96 13752054

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Conrad H. Lee 6/5/96
 DIRECTOR OF PUBLIC WORKS - DATE

Paul R. Brown 6/5/96
 CHIEF, BUREAU OF ENGINEERING - DATE

Elizabeth Anderson-Lee 6/10/96
 CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

William M. K. auto 6-5-96
 CHIEF, BUREAU OF HIGHWAYS - DATE

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 Hagerstown, Maryland 21740
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DES:	R.D.P.		
DRN:	A.C.M.		
CHK:	R.D.P.		
DATE:	01/93		
BY	NO	REVISION	DATE

LENNOX PARK
 A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

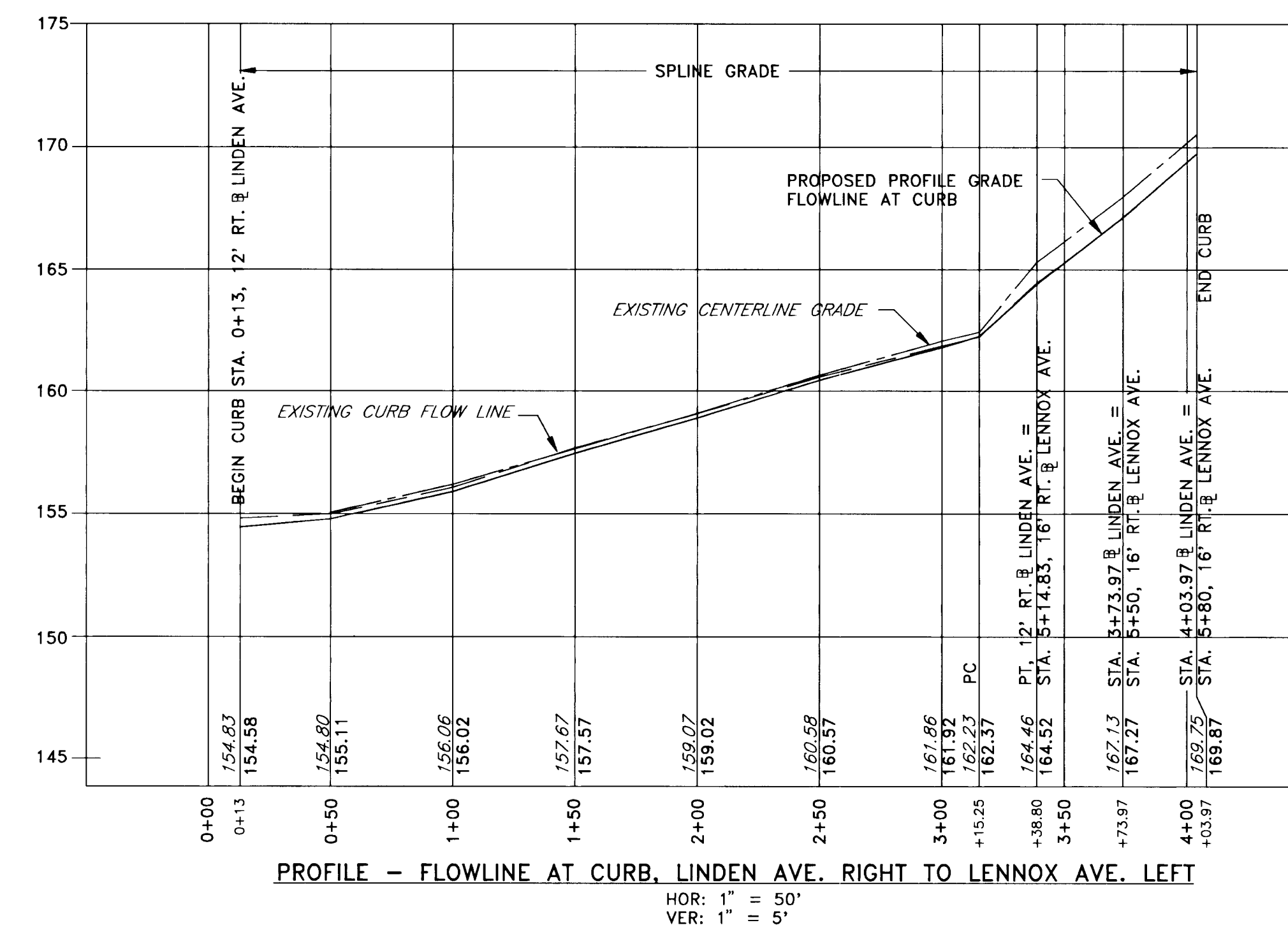
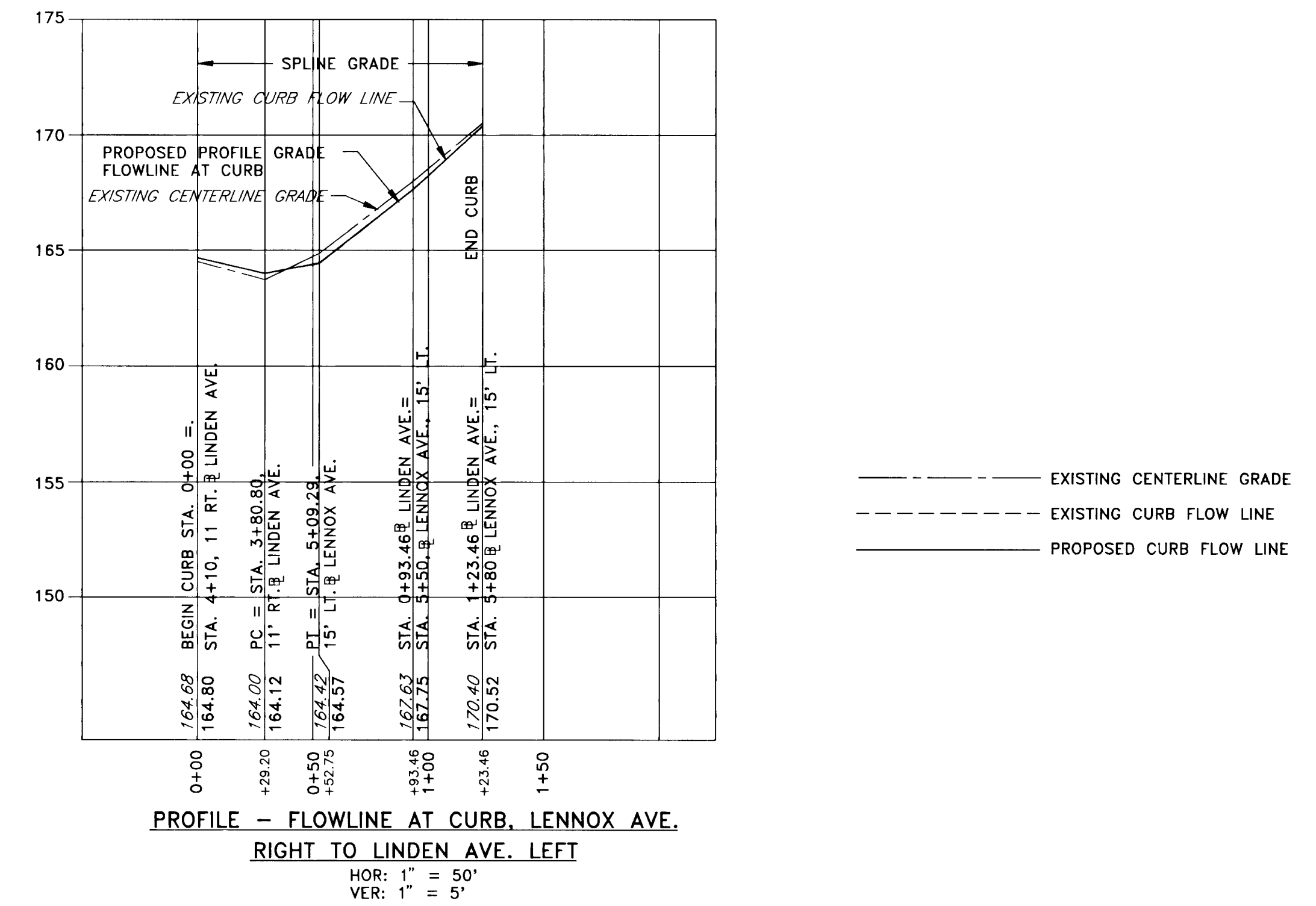
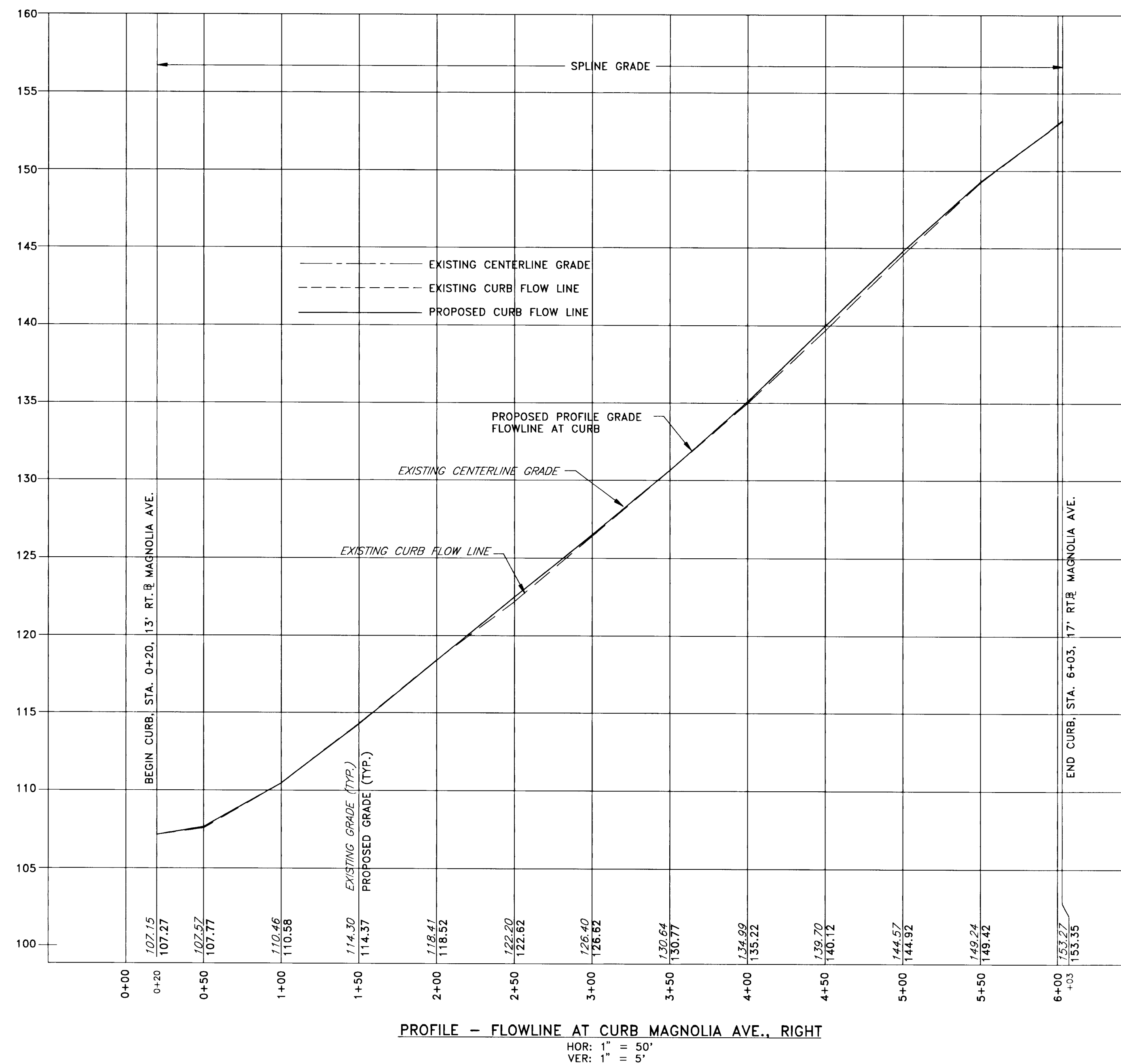
CAPITAL PROJECT NO. D-1100

LENNOX PARK
 STORM DRAIN IMPROVEMENTS
 CURB FLOW LINE PROFILE

SCALE
 H:1"=50', V:1"=5'

SHEET
 20 OF 24

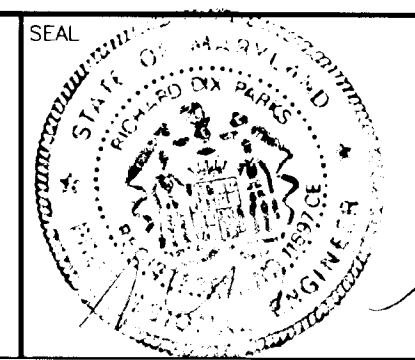
DWG. NO.
 PR-5



NOTE: ALL ELEVATIONS SHOWN ARE TO FLOWLINE ASSUMING 1 1/2" OVERLAY BY OTHERS

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works - DATE
 Chief, Roads, Bridges, & Storm Drainage Div. - DATE

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 201 South Cleveland Avenue, Suite 304
 Hagerstown, Maryland 21740
 Tel 301-791-1100

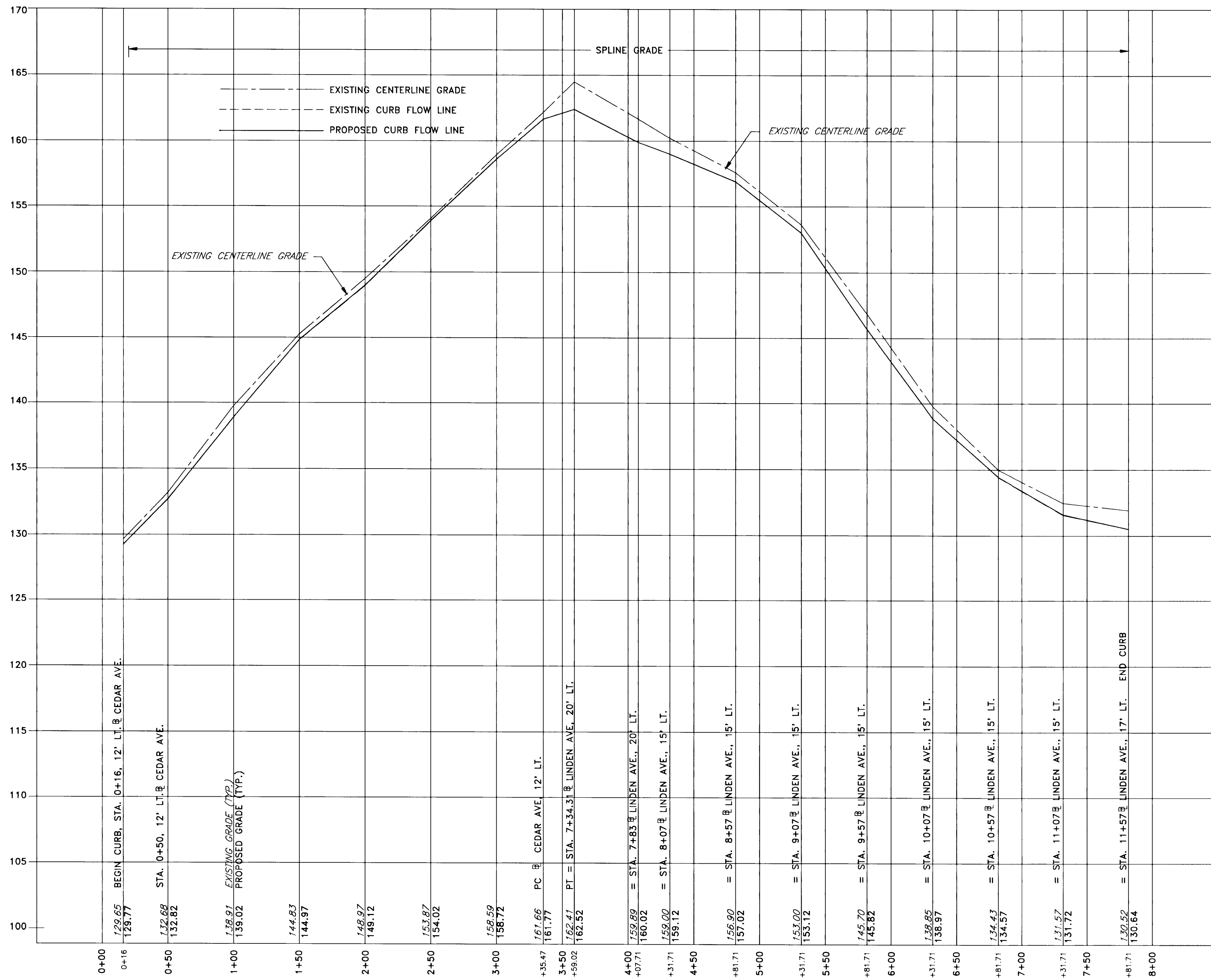


DES:	R.D.P.		
DRN:	A.C.M.		
CHK:	R.D.P.		
DATE:	01/93		
BY:	NO	REVISION	DATE

LENNOX PARK
 A RESIDENTIAL COMMUNITY
 600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100
 LENNOX PARK
 STORM DRAIN IMPROVEMENTS
 CURB FLOW LINE PROFILES

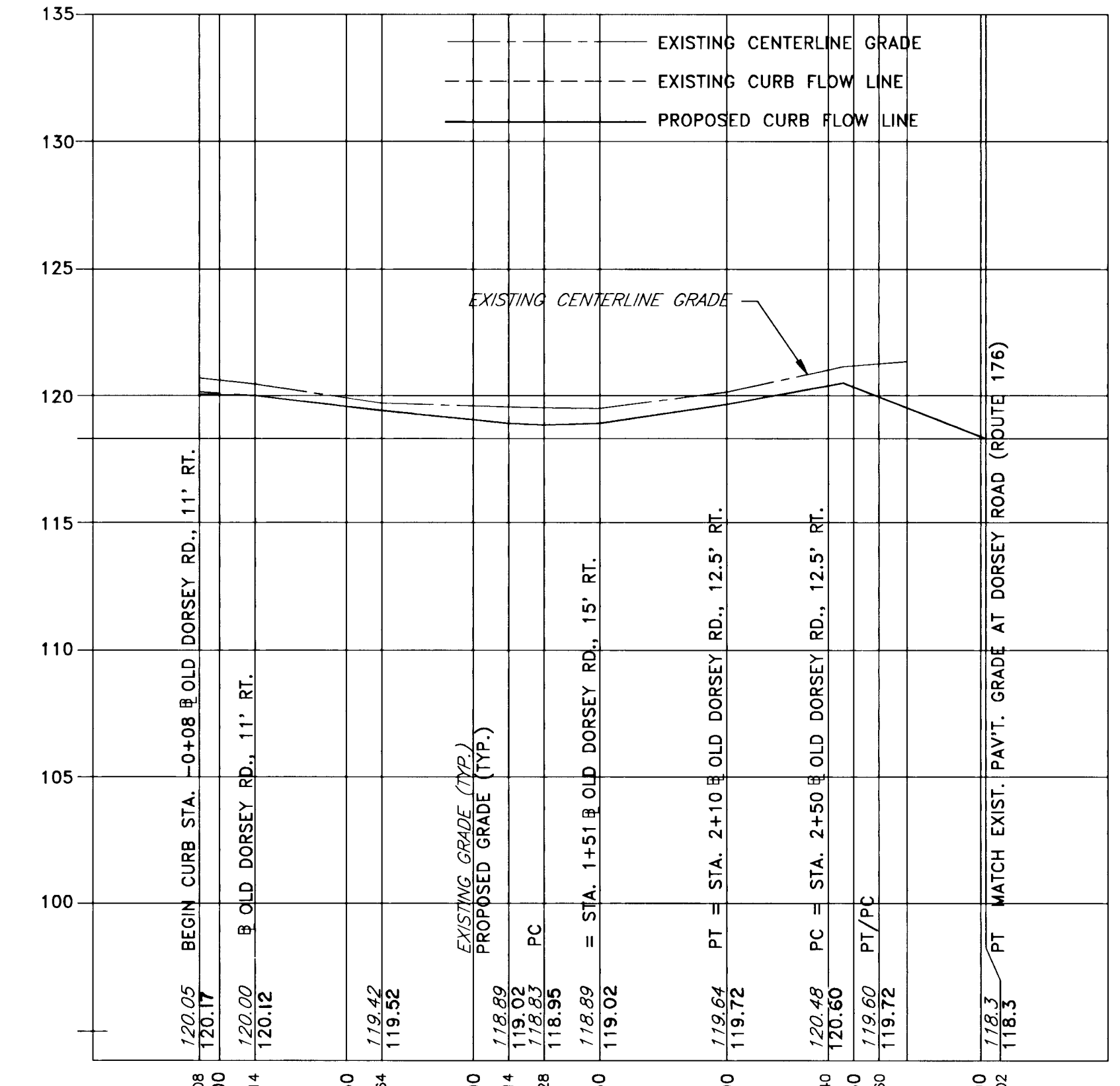
SCALE
 H:1"=50', V:1"=5'
 SHEET
 21 OF 24
 DWG. NO.
 PR-6



PROFILE - FLOWLINE AT CURB CEDAR AVE. LEFT TO LINDEN AVE. LEFT

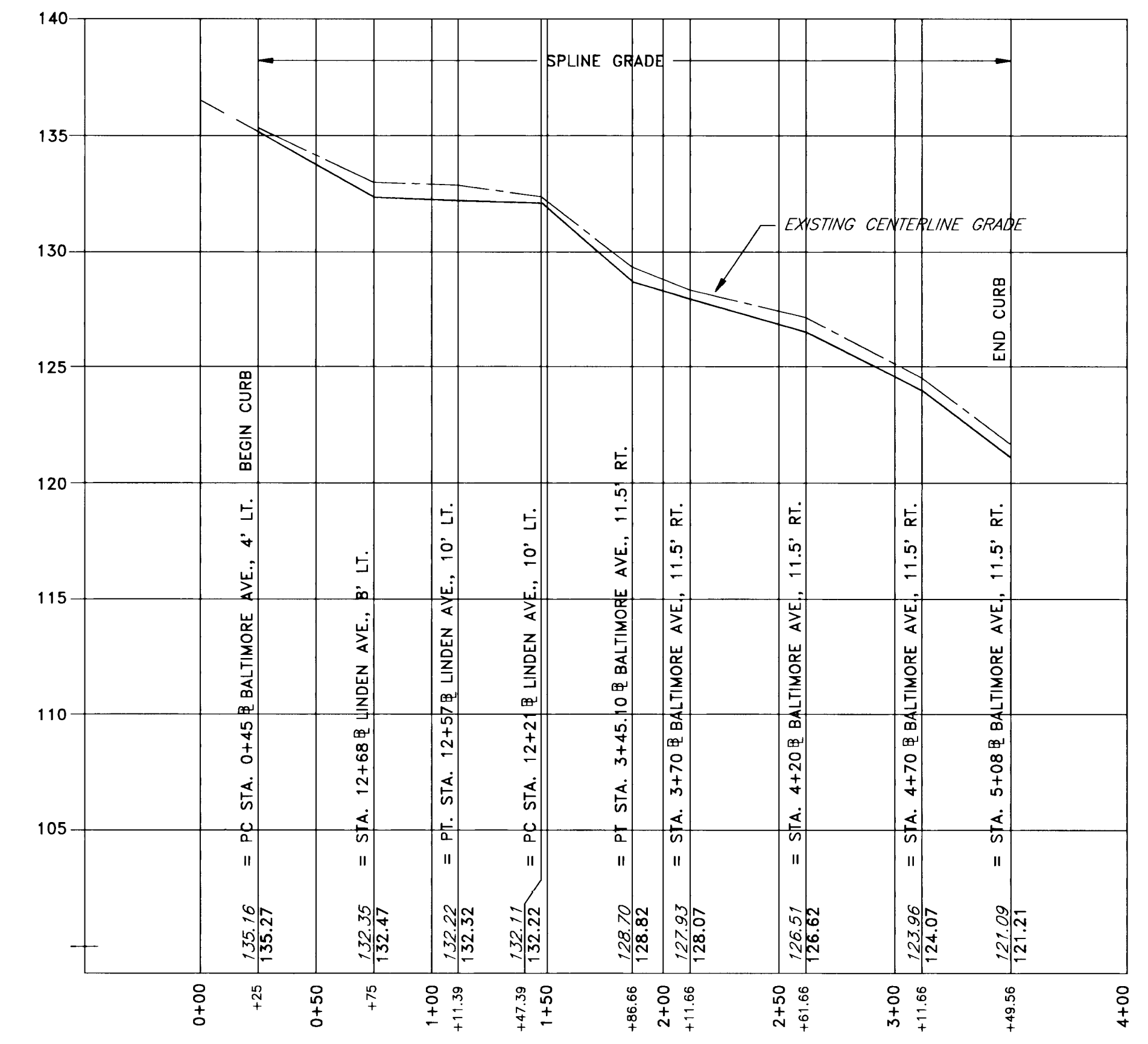
HOR: 1" = 50'
VER: 1" = 5'

NOTE: ALL ELEVATIONS SHOWN ARE TO FLOWLINE ASSUMING A 1 1/2" OVERLAY BY OTHERS



PROFILE - FLOWLINE AT CURB OLD DORSEY ROAD RIGHT

HOR: 1" = 50'
VER: 1" = 5'



PROFILE - FLOWLINE AT CURB, BALTIMORE AVE. RT./LINDEN AVE. LT.

HOR: 1" = 50'
VER: 1" = 5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

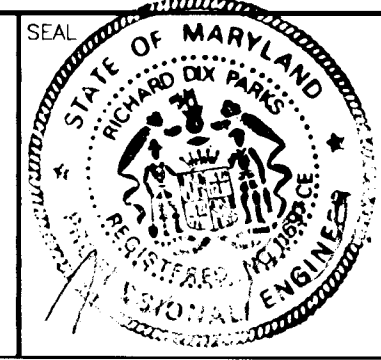
James M. ...
DIRECTOR OF PUBLIC WORKS - DATE

...
CHIEF, BUREAU OF ENGINEERING - DATE

...
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

...
CHIEF, BUREAU OF HIGHWAYS - DATE

acer
Acer Engineers & Consultants, Inc.
201 South Cleveland Avenue, Suite 304
Hagerstown, Maryland 21740
Tel 301-791-1100



DES:	R.D.P.	
DRN:	A.C.M.	
CHK:	R.D.P.	
DATE:	01/93	
BY	NO	REVISION

LENNOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100

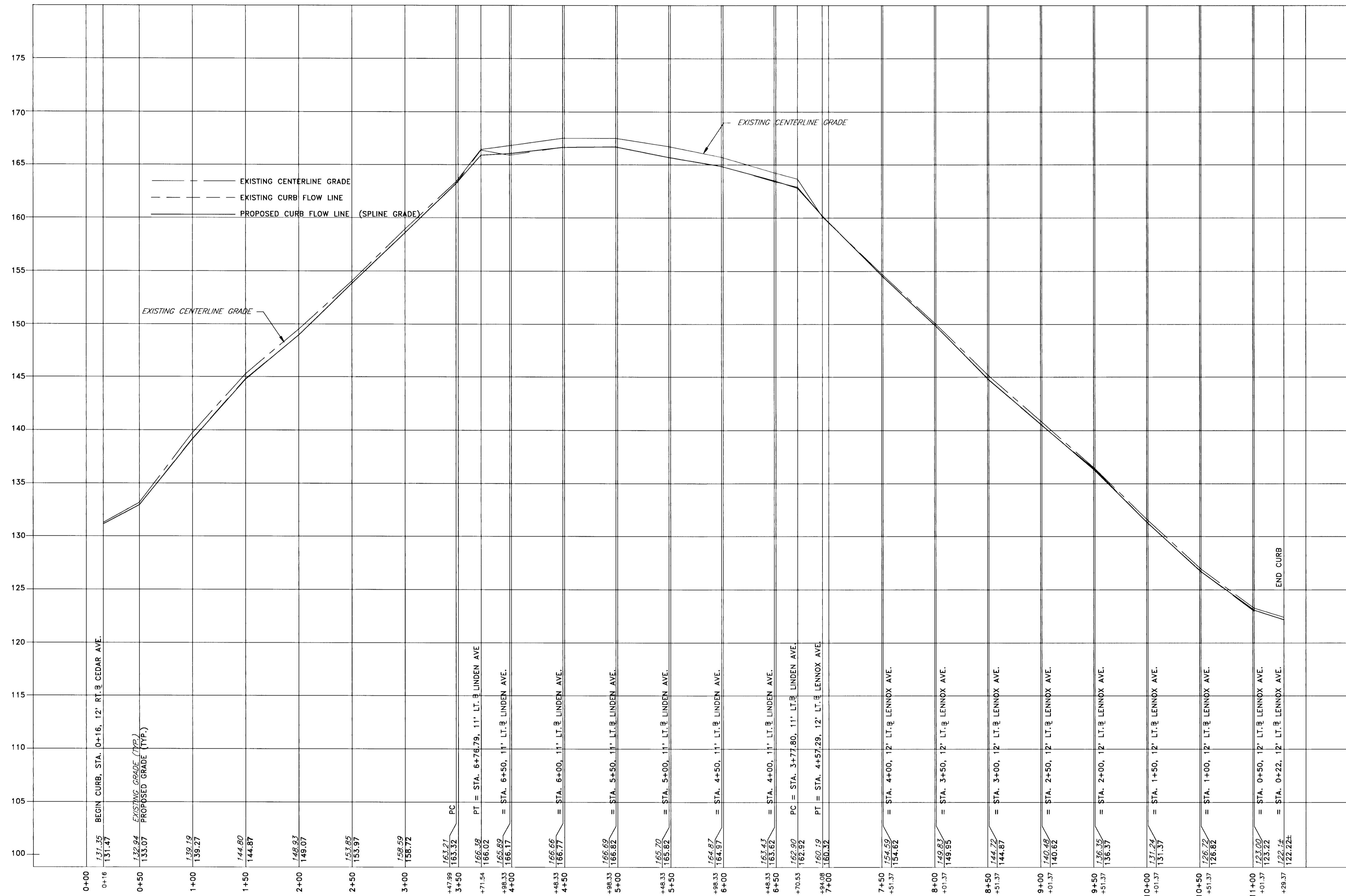
LENNOX PARK
STORM DRAIN IMPROVEMENTS
CURB FLOW LINE PROFILE

SCALE
H:1"=50', V:1"=5'

SHEET
22 OF 24

DWG. NO.
PR-7

02/25/96 13752653



PROFILE - FLOWLINE AT CURB CEDAR AVE. RIGHT TO LENNOX AVE. LEFT

HOR: 1" = 50'
VER: 1" = 5'

NOTE: ALL ELEVATIONS SHOWN ARE TO FLOWLINE ASSUMING 1/2" OVERLAY BY OTHERS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James A. Lewis 6/5/93
DIRECTOR OF PUBLIC WORKS - DATE

William J. Brown 6/5/93
CHIEF, BUREAU OF ENGINEERING - DATE

Elizabeth Anderson 6/4/93
CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

Robert M. ... 6-5-93
CHIEF, BUREAU OF HIGHWAYS - DATE

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LENNOX PARK
A RESIDENTIAL COMMUNITY

600' SCALE MAP NO. 43 BLOCK NO. 6

CAPITAL PROJECT NO. D-1100

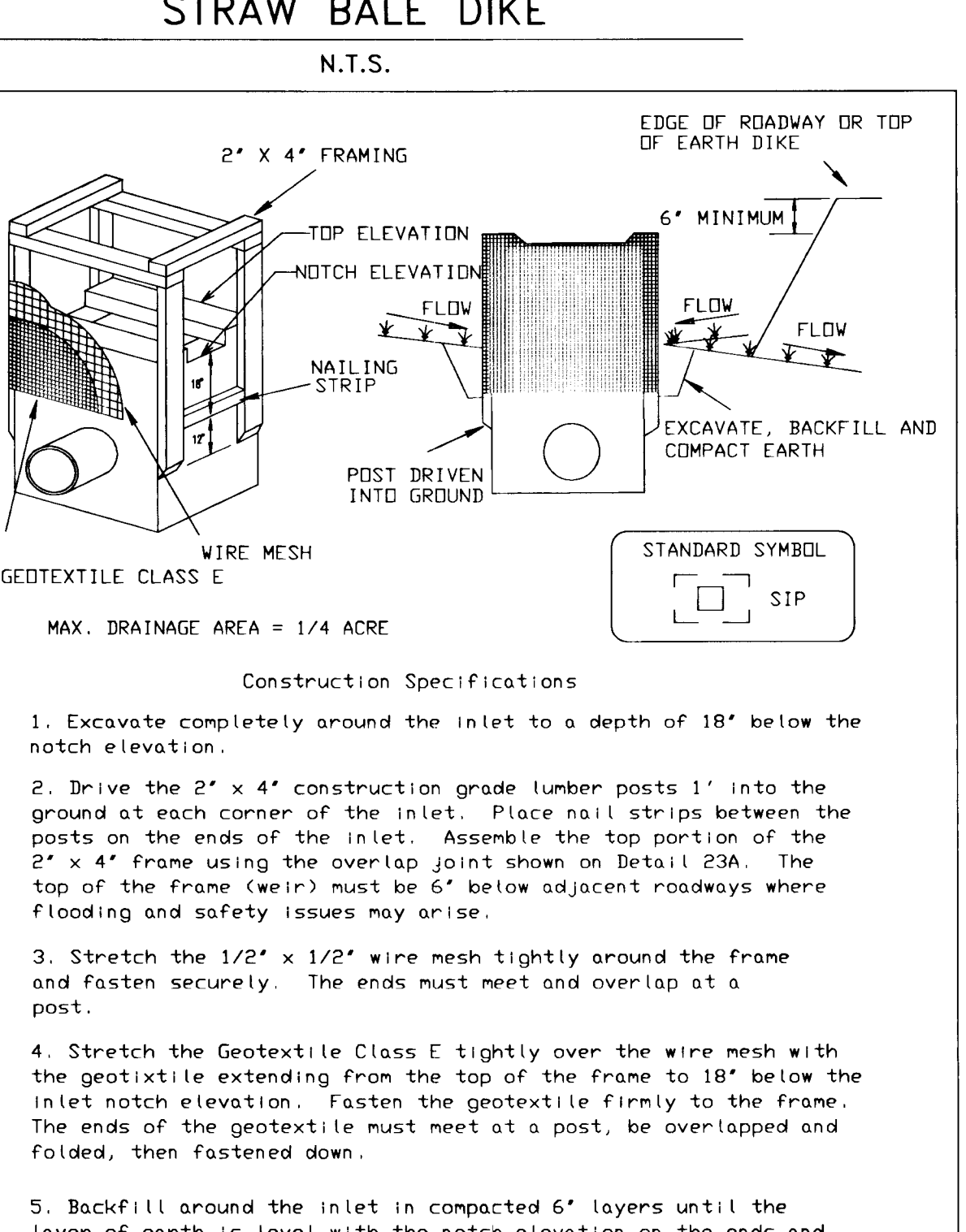
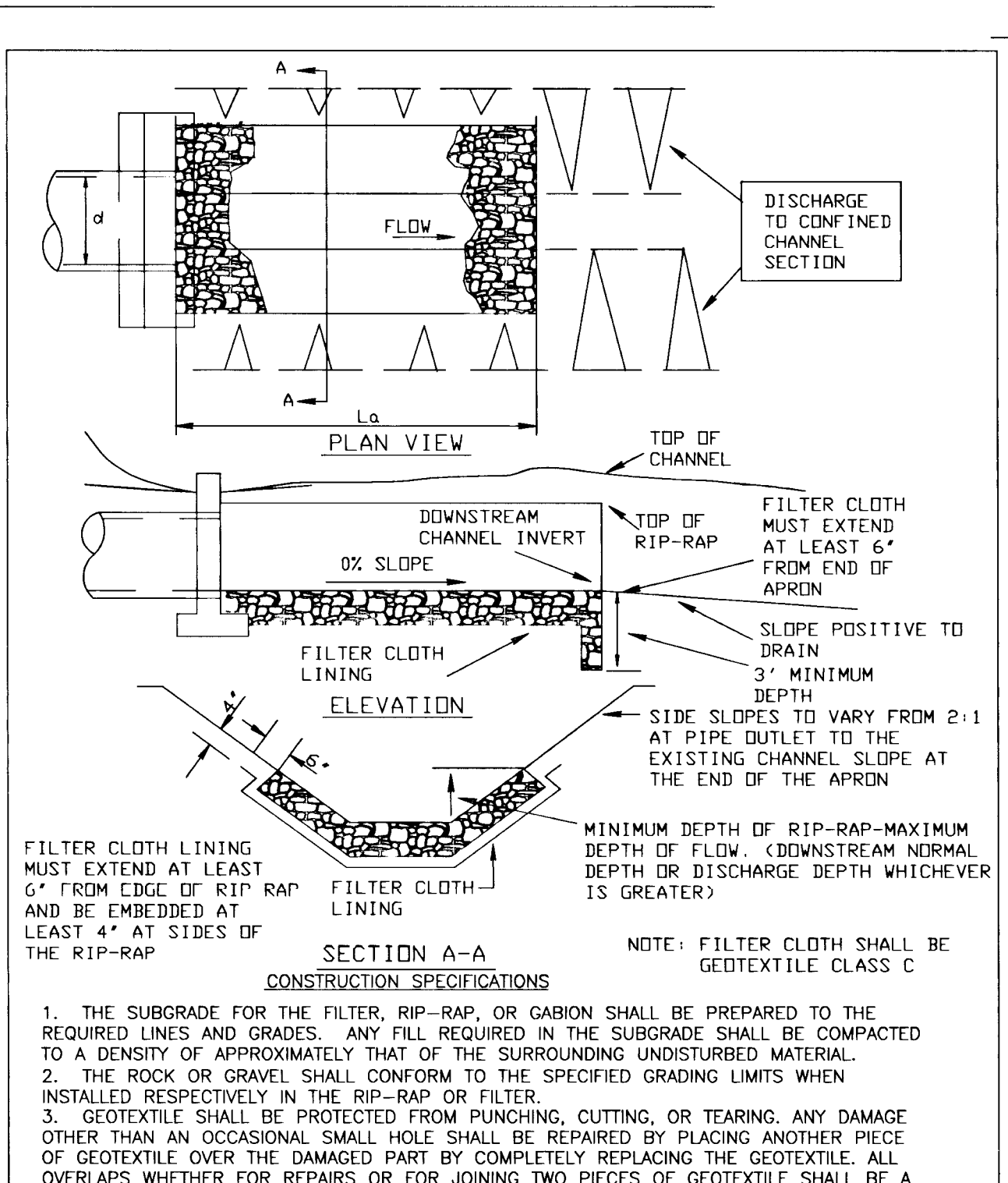
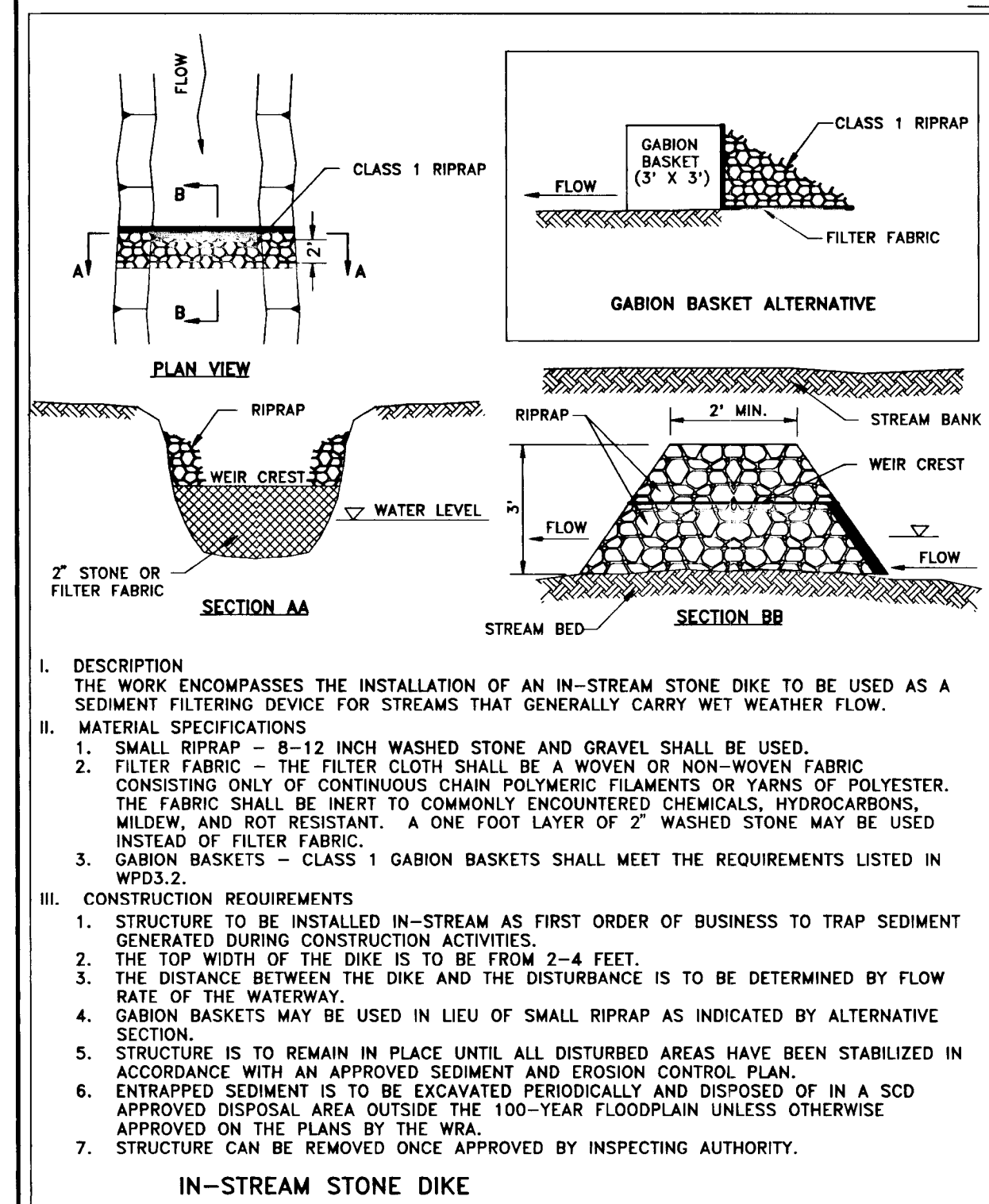
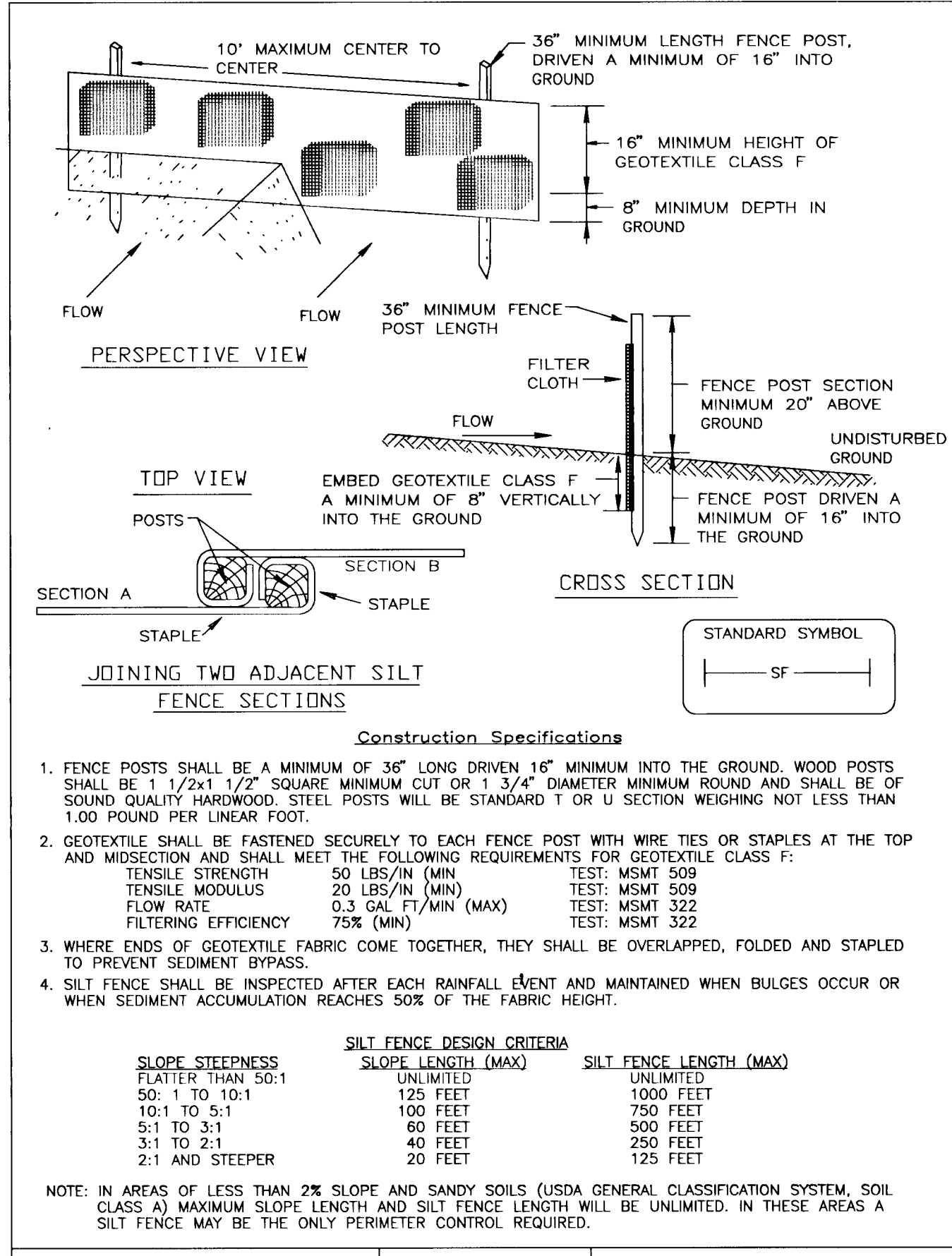
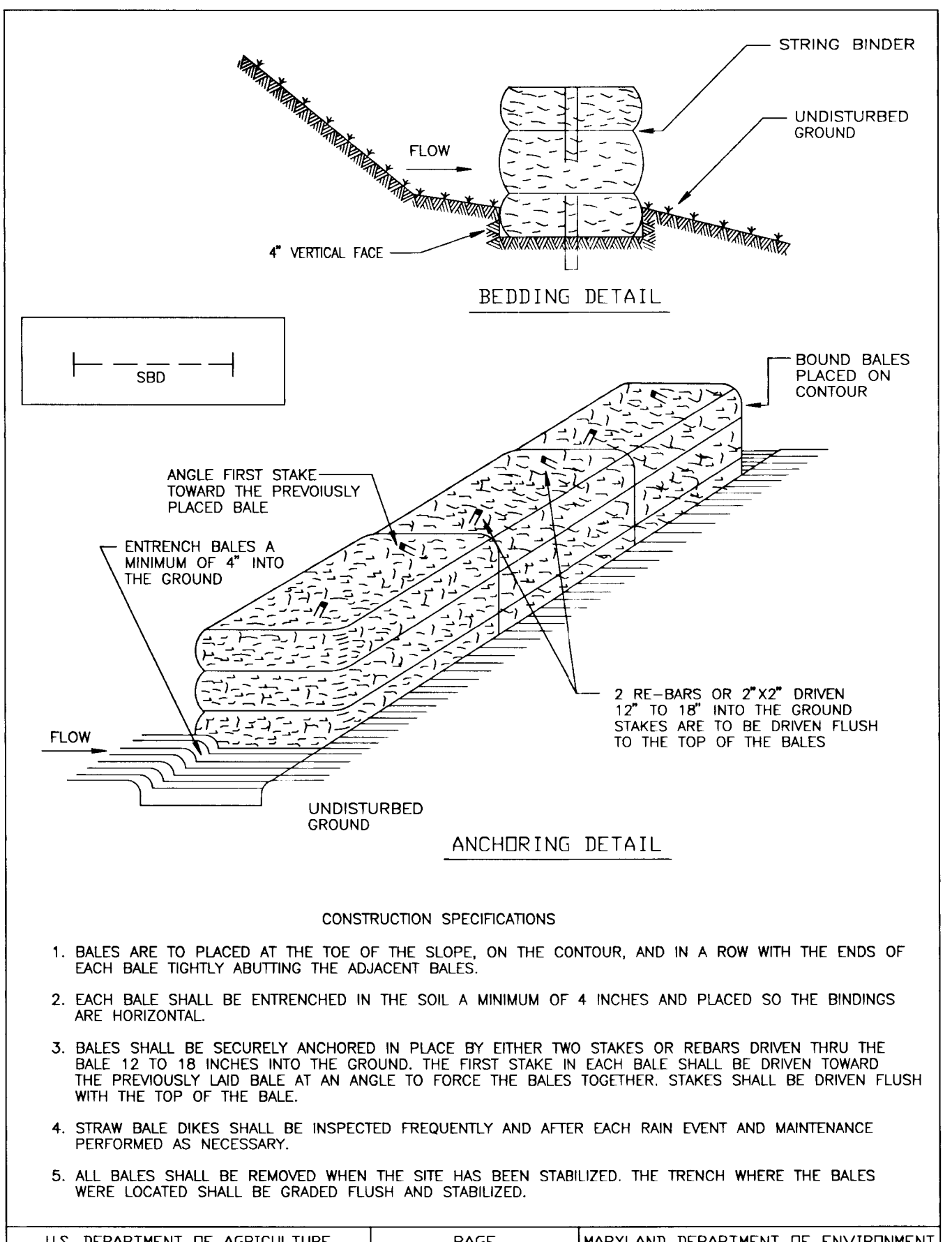
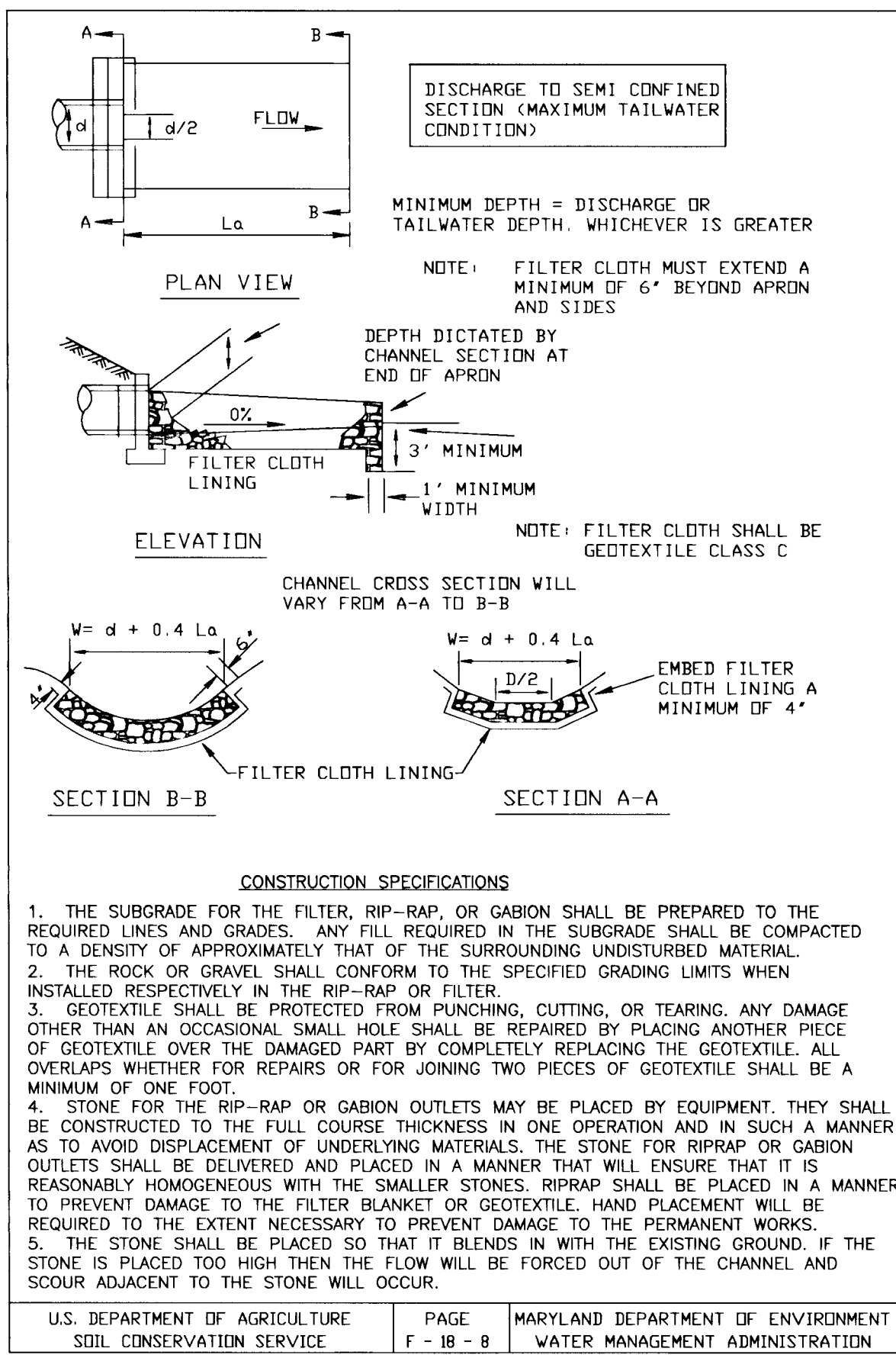
LENNOX PARK
STORM DRAIN IMPROVEMENTS
CURB FLOW LINE PROFILE

SCALE
H:1"=50', V:1"=5'

SHEET
23 OF 24

DWG. NO.
PR-8

02/26/96 13750002



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

J.G. [Signature] 6/5/93
U.S. NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: *[Signature]* 6/5/96
U.S. NATURAL RESOURCES CONSERVATION SERVICE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 6/5/96
DIRECTOR OF PUBLIC WORKS - DATE

[Signature] 6/5/96
CHIEF, BUREAU OF ENGINEERING - DATE

CHIEF, ROADS, BRIDGES, & STORM DRAINAGE DIV. - DATE

CHIEF, BUREAU OF HIGHWAYS - DATE

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Acer Engineers & Consultants, Inc.
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Hagerstown, Maryland 21740
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STATE OF MARYLAND
DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES

DES: R.D.P.
DRN: A.C.M.
CHK: R.D.P.
DATE: 01/93

BY NO REVISION

LENNOX PARK
A RESIDENTIAL COMMUNITY

CAPITAL PROJECT NO. D-1100
LENNOX PARK
STORM DRAINAGE IMPROVEMENTS

SCALE NONE
SHEET 24 OF 24
DWG. NO. SC-1

600' SCALE MAP NO. 43 BLOCK NO. 6

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2-1/2 BU. PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR WOOD CELLULOSE BINDERS.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIME STONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.5 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 109 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR WOOD CELLULOSE BINDERS.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

SEDIMENT CONTROL NOTES

- A MIN. OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD CO. OFFICE OF INSPECTION AND PERMITS PRIOR TO ANY CONSTRUCTION OF ANY VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH "THE 1994 MD. STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DIST. OR GRADED AREAS ON THE PROJECT SITE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH "THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDINGS (SEC.51), SOD (SEC.54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
TOTAL AREA OF SITE: 30 ACRES
AREA DISTURBED: 1.0 ACRES
AREA TO BE ROOFED OR PAVED: 0.2 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 0.8 ACRES
TOTAL CUT: 2000 CUBIC YARDS
TOTAL FILL: 2000 CUBIC YARDS
OFFSITE WASTE/BORROW AREA LOCATION (BY CONTRACTOR)
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF THE DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC., APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

SEQUENCE OF CONSTRUCTION

- CONTRACTOR SHALL OBTAIN A GRADING PERMIT
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES ACCORDING TO PLAN. CLEAR AND GRUB RIGHT-OF-WAY AHEAD OF CONSTRUCTION BY NO MORE THAN ONE PIPE LENGTH.
- INSTALL SILT FENCE DAILY ALONG THE LOW SIDE OF THE LIMITS OF CONSTRUCTION. THIS SILT FENCE SHALL BE REMOVED AS CONSTRUCTION PROCEEDS UPSTREAM WHEN THE DISTURBED AREA HAS BEEN STABILIZED AND WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. FILL MUST BE PLACED ON THE UPLAND SIDE OF THE TRENCH.
- COMPLETE CONSTRUCTION OF STORM SEWER IMPROVEMENTS, BEGINNING AT LOW END OF SYSTEM, LIMITING OPEN TRENCH TO ONE PIPE LENGTH AT A TIME.
- COMPLETE CONSTRUCTION OF ROAD IMPROVEMENTS, INCLUDING PAVEMENT RECONSTRUCTION AND NEW CURB.
- RESTALL ALL DISTURBED AREAS IN ACCORDANCE WITH PERM. SEEDING NOTES. UPON APPROVAL FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES.

01/12/93 FILENAME: 13742012