

**BENCH MARKS:**

Ho. Co. Monument # 2644004  
 Elev 402.135  
 Concrete Monument 0.1' Below Surface  
 SW corner of Intersection Route 103  
 and Old Montgomery Road

Ho. Co. Monument # 2644005  
 Elev 416.981  
 Concrete Monument 0.2' Below Surface  
 South Side Montgomery Road, East  
 of Meadowridge Road

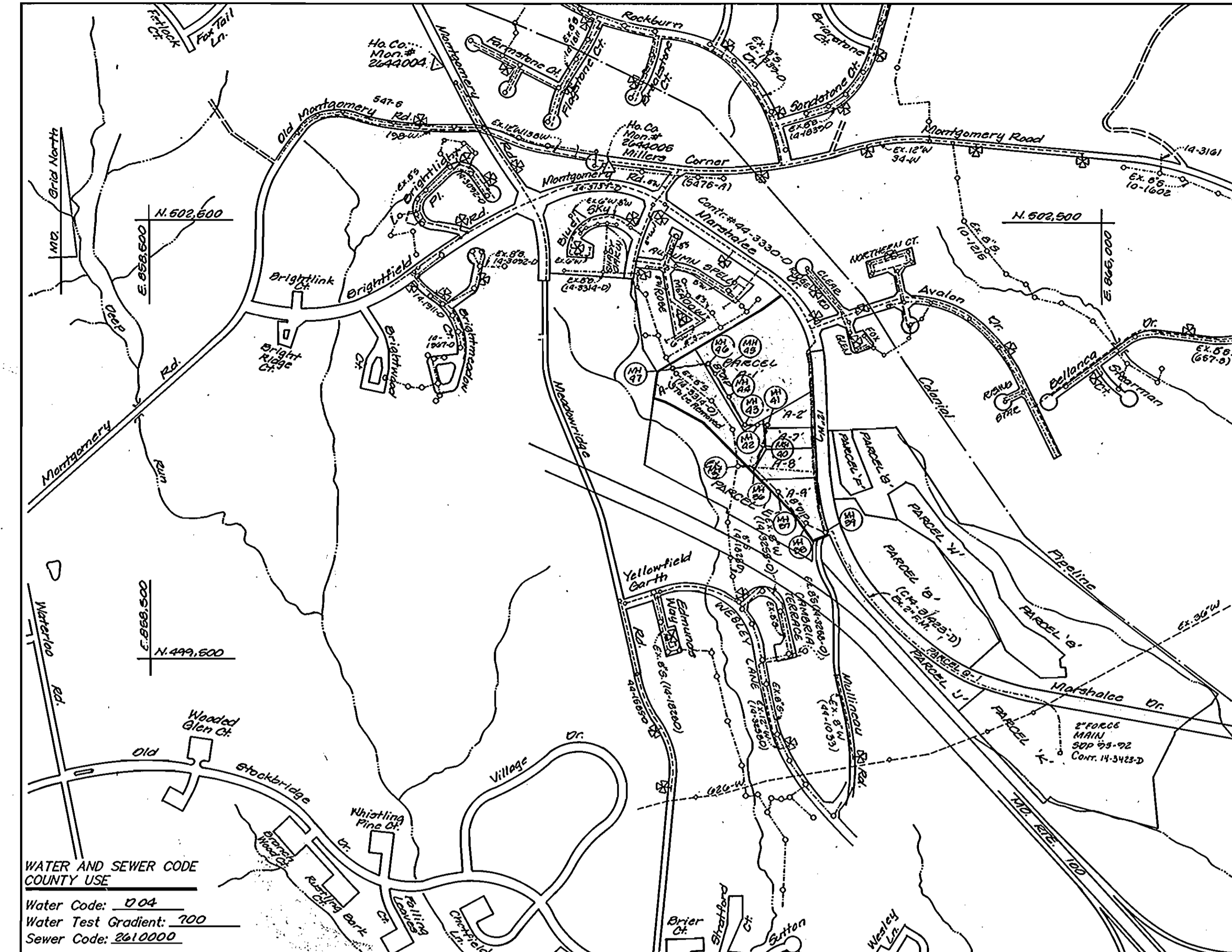
INDEX OF SHEETS	
SHEET NO.	TITLE
1	COVER SHEET
2	PLAN VIEW
3	SEWER PROFILES
4	MARSHALEE DRIVE (Waterline Profile)

**GENERAL NOTES**

- PART I**
- Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and 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. data.
  - All pipe elevations shown 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 owned 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 (latest edition). The Contractor shall have a copy of Volume IV on the job.
  - Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the Contractor two weeks in advance of construction operations at his own expense.
  - Contractor shall notify the following utility companies or agencies at least five (5) working days before starting work shown on these plans:
    - a. SHA: 531-5533
    - b. BGE (Contractor Services): 850-4620
    - c. BGE (Underground damage control): 787-9068
    - d. Miss Utility: 1-800-257-7777
    - e. Colonial Pipeline Company: 795-1390
    - f. Howard County Dept. of Public Works, Bureau of Utilities: 313-4900
  - Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs 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.

- PART II: WATER**
- All water mains to be D.I.P. Class 52 unless otherwise noted.
  - Tops of all water mains to have a minimum of 3 1/2' cover unless otherwise noted.
  - Valves adjacent to the tees shall be strapped to the tees.
  - All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
  - Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with the Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
  - The Contractor shall not operate any water main valves on the existing water system.
  - All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

- PART III: SEWER**
- All sewer mains to be D.I.P. Class 52 unless otherwise noted.
  - All proposed sewers shall be public.
  - All manholes shall be 4'0" inside diameter unless otherwise noted.
  - Force mains shall be D.I.P. only.
  - Manholes designated W.T. in plan and profile shall have water tight frame and covers; Standard Detail GS-52. Where watertight manhole frame and cover is used, set top of frame 1'6" above finished grade unless otherwise noted on the drawings.
  - Houses with the symbol "C.N.S." indicates that cellar cannot be served.
  - Manholes shown with 12" and 16" walls are for brick manholes only.
- PART IV: Abandonment**
- All sewer gravity and force mains and/or manholes shown as "to be abandoned" shall be filled with M.S.H.A. Flowable fill.



**VICINITY MAP**  
 Scale: 1"=600'

Type of Buildings:	Commercial
Number of Parcels:	6 Buildable
Number of W.H.C.'S:	-
Number of S.H.C.'S:	5
Drainage Area:	Deep Run (Potapoco)
Treatment Plant:	Potapoco Wastewater Treatment Plant

WATER AS-BUILTS			
FROM	TO	DIAM.	DEPTH
6" VALVE 0102 OUT OF 12"x6" F.H.T.	F.H. #1	6" VALVE	8"
8" " " " " " " " "	8" VALVE 12"x8" T 2+49	8" " "	100"
12" M.L. VALVE 2+92	12" M.L. VALVE 2+92	12" " "	6"
8" VALVE 0102 OUT OF 12"x8" TEE 3+66	8" VALVE 12"x8" T 2+49	8" " "	103"
6" VALVE 0102 OUT OF 12"x6" F.H.T. 3+03	F.H. #2	6" " "	158"
8" VALVE " " " " " " " "	8" VALVE 12"x8" T 3+66	8" " "	8"
" " " " " " " "	F.H. #2	" " "	64"
" " " " " " " "	8" VALVE 12"x8" T 3+66	" " "	151"
" " " " " " " "	F.H. #3	" " "	137"
" " " " " " " "	8" VALVE 12"x8" T 9+72	" " "	9"
" " " " " " " "	F.H. #3	" " "	118"
" " " " " " " "	6" VALVE	" " "	113"
" " " " " " " "	12" M.L. VALVE 11+82	" " "	12"
" " " " " " " "	F.H. #4	" " "	9"
12" M.L. VALVE 11+82	6" VALVE	12" " "	4"
" " " " " " " "	" " "	" " "	12"

**WATER & SEWER CONSTRUCTION PLANS**  
**LYNDWOOD SQUARE**  
 PARCELS A-1, A-2, A-6, A-7 THRU A-9, B and Q-1

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 14-3531-D

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS.  
 J.C. Campbell /cs. 7/5/96  
 Signature Date  
 NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 [Signature] 7/5/96  
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATION AND FINAL ROAD CONSTRUCTION PLANS: F 94-27 / SDP 96-98

DEPARTMENT OF PUBLIC WORKS  
 [Signature] 7/10/96  
 CHIEF-BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
 [Signature] 7/10/96  
 CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

**LDE, INC.**  
 9250 RUMSEY ROAD, SUITE 106  
 COLUMBIA, MARYLAND 21045  
 (410) 715-1070 (301) 596-3424



DESIGNED	EDS / TD
DRAWN	CAD/
CHECKED	BDB.
DATE	LDE
Feb. 1996	BY NO.

QUANTITIES (cont'd)			
ITEM	QUANTITIES ESTIMATED	QUANTITIES	AS BUILT
6" SHC (PVC)	40'	39'	PVC
" " D.I.P.		29'	D.I.P.

QUANTITIES				
AS BUILT				
ITEM	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W	80	89	D.I.P.	ATLANTIC STATES
12" W	1364	1368	"	"
12"x6" FHT	4	4	"	UNION FOUNDRY
Fire Hydrant	4	"	CAST IRON	MUELLER CO.
6" Valve	4	"	CAST IRON/STEEL VALVE	"
8" Valve	5	5	"	"
12"x8" Tee	6	"	D.I.P.	UNION FOUNDRY
8" D.I.P., CL 52	2091	2030	"	ATLANTIC STATES
8" San.	10	10	P.V.C.	J-M MANUFACTURING
Manhole	11	12	PRECAST CONCRETE	ATLANTIC CONCRETE PRODUCTS
Type 'B' Drop MH	2	2	D.I.P.	ATLANTIC STATES/UNION FOUNDRY
6" W	36	42	"	"
12" Valve	2	2	CAST IRON/STEEL VALVE	MUELLER CO.
8" Cap & Buttrass	5	5	D.I.P.	UNION FOUNDRY
12" Cap & Buttrass	1	1	"	"
12" 45" M.B.	5	5	"	"

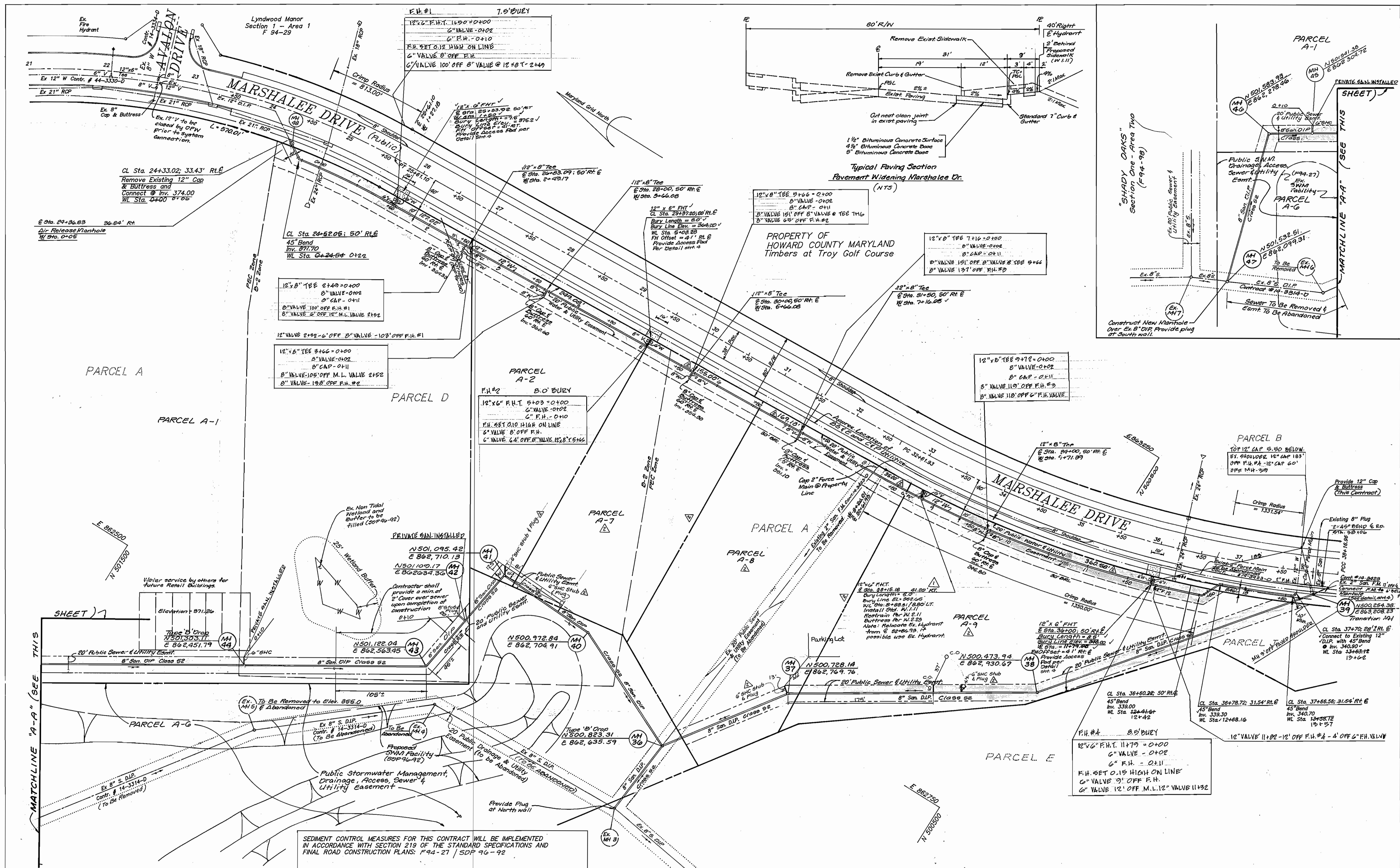
NAME OF UTILITY CONTRACTOR: UTILITIES UNLIMITED, INC.  
 CHECK BOX: SURVEY & DRAFTING DIVISION AS BUILT DATE:

**TITLE SHEET**

**LYNDWOOD SQUARE**  
 Parcels A-1, A-2, A-6, A-7 thru A-9, B and Q-1  
 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 14-3531-D

SCALE AS SHOWN  
 SHEET 1 of 4

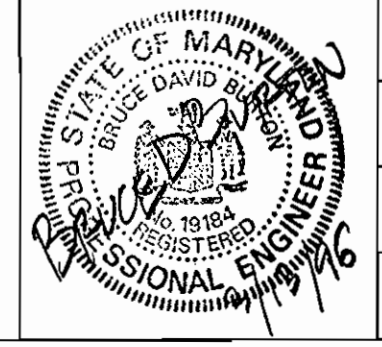
SQUARE



DEPARTMENT OF PUBLIC WORKS  
 Michael A. Howard  
 CHIEF-BUREAU OF UTILITIES RATS  
 DATE 6/27/96

DEPARTMENT OF PLANNING & ZONING  
 [Signature]  
 CHIEF-DEVELOPMENT ENGINEERING DIVISION  
 DATE 7/10/96

LDE, INC.  
 9250 RUMSEY ROAD, SUITE 106  
 COLUMBIA, MARYLAND 21045  
 (410) 715-1070 (301) 596-3424

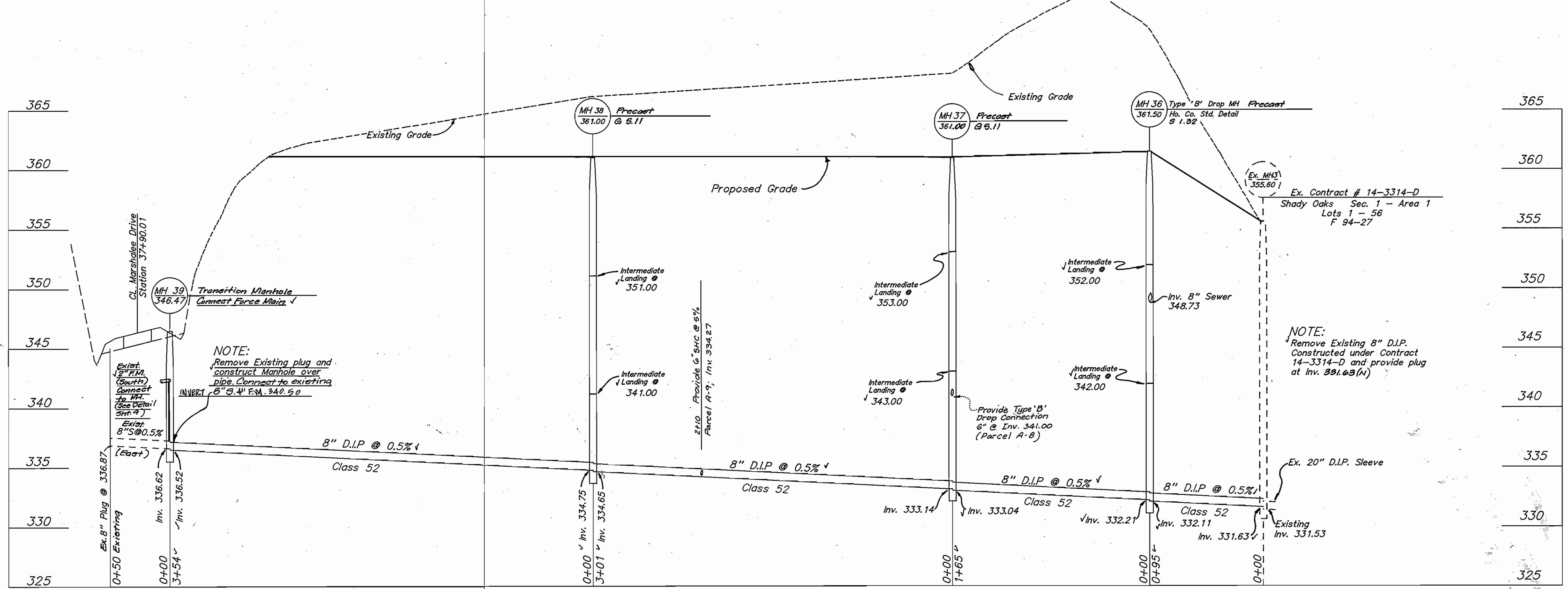
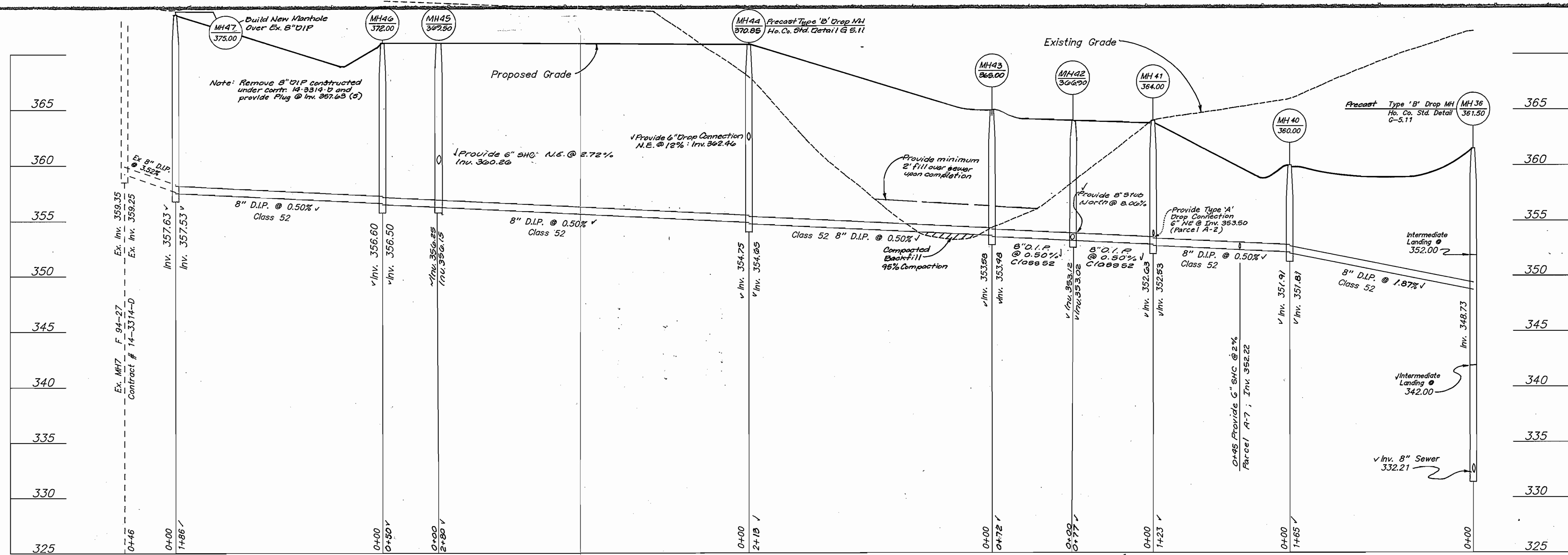


DESIGNED	E.D.S./T.R.	
DRAWN	CAD	
CHECKED	B.D.B.	
DATE	Feb. 1996	
BY	NO.	REVISION
		2/98
		Nov. 1997

600 SCALE MAP NO. 37  
 BLOCK 11

SCALE 1" = 50'  
 SHEET 2 OF 4  
 Lyndwood Square  
 Parcels A-1, A-2, A-4, A-7 thru A-9, B and Q-1  
 1st Election District  
 Howard County, Maryland  
 Contract No. 14-3531-D

2721 WINDY SQUARE

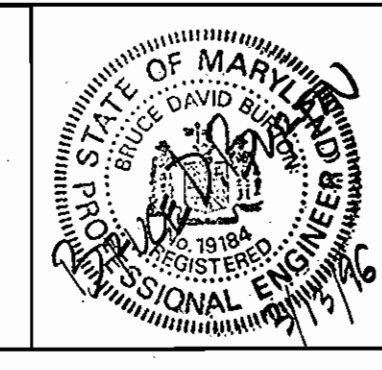


SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS AND FINAL ROAD CONSTRUCTION PLANS.  
F 94-27 / SDP 96-92

*Michael A. ...*  
CHIEF-BUREAU OF UTILITIES DATE

*...*  
CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

**LDE, INC.**  
9250 RUMSEY ROAD, SUITE 106  
COLUMBIA, MARYLAND 21045  
(410) 715-1070 (301) 598-3424



DESIGNED	E.D.S./T.D.	
DRAWN	CAD/	
CHECKED	B.D.B.	
DATE	LDE.	2/98
BY	NO.	

REVISION	DATE	600 SCALE MAP NO. 37	BLOCK 11
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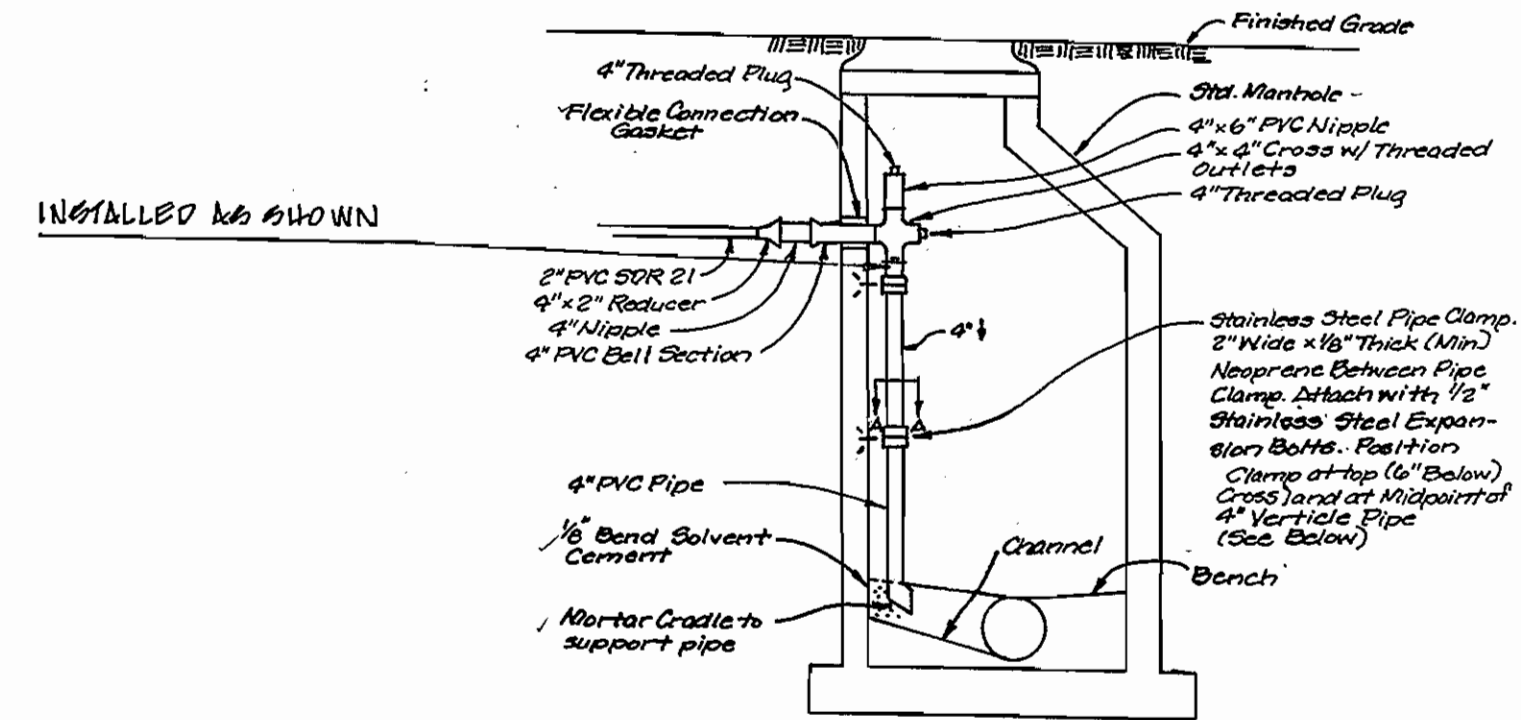
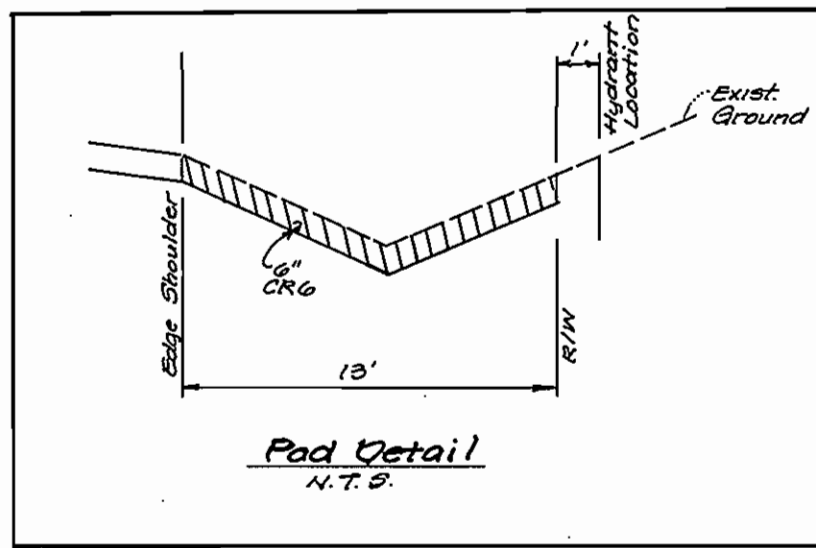
**PROFILE**

**Lyndwood Square**  
Parcels A-1, A-2, A-6, A-7 thru A-9, B and Q-1

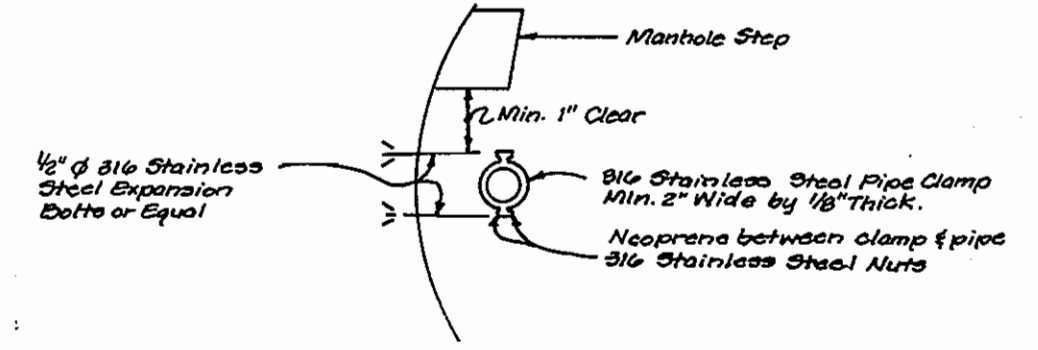
1st Election District Howard County, Maryland  
Contract No. 14-3531-D

SCALE  
1"=50' Horiz.  
1"=5' Vert.

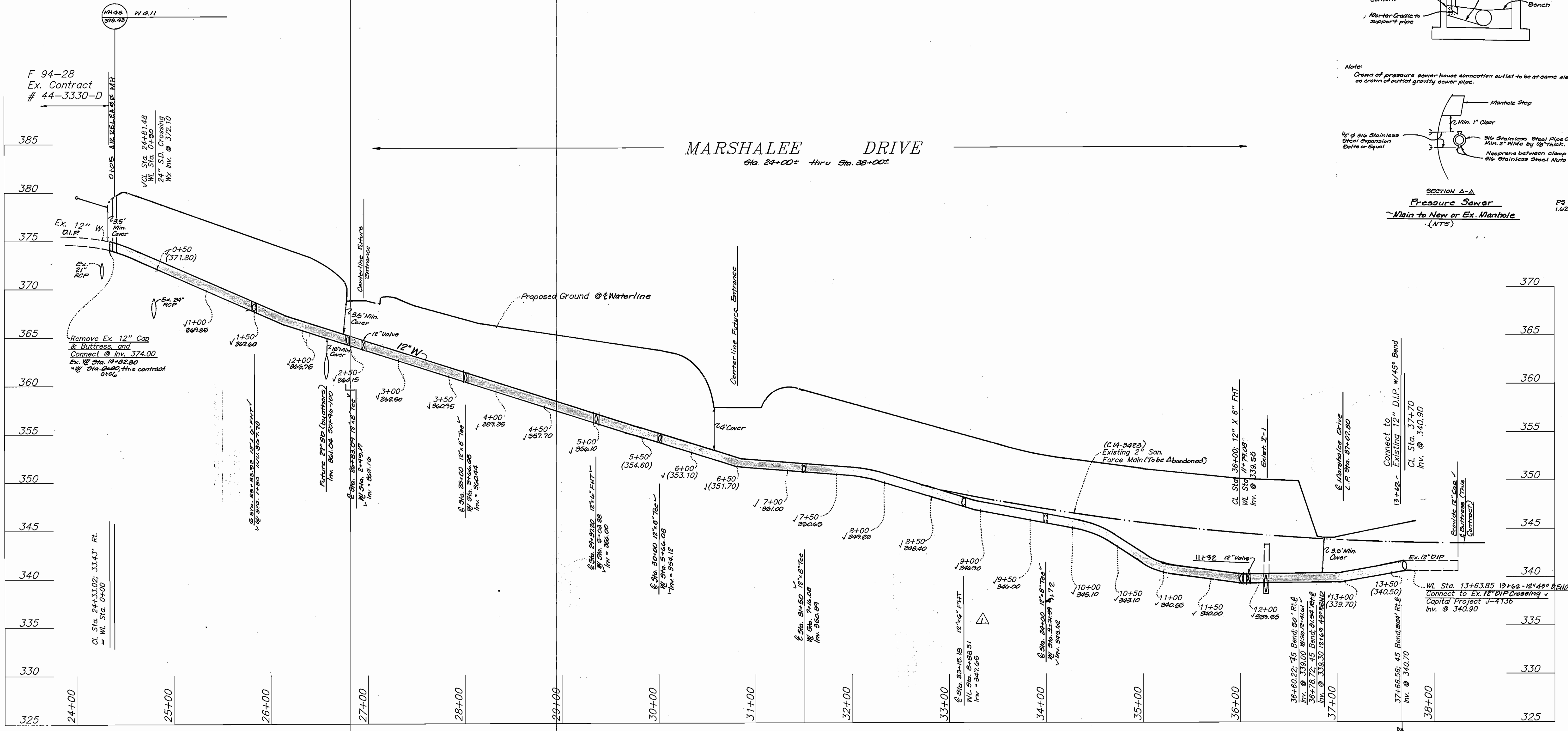
SHEET  
3 of 4



Note:  
Crown of pressure sewer house connection outlet to be at same elevation as crown of outlet gravity sewer pipe.



MARSHALEE DRIVE  
Sta 24+00± thru Sta. 38+00±



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DEPARTMENT OF PUBLIC WORKS  
DEPARTMENT OF PLANNING & ZONING

LDE, INC.  
9250 RUMSEY ROAD, SUITE 106  
COLUMBIA, MARYLAND 21045  
(410) 715-1070 (301) 596-3424



DESIGNED	E.D.S.		
DRAWN	CAD/		
CHECKED	B.D.B.		
DATE	L.O.B.	Relocate Fire Hydrant Per SDP	Nov. 1997
Feb. 1996	BY NO.	REVISION	DATE

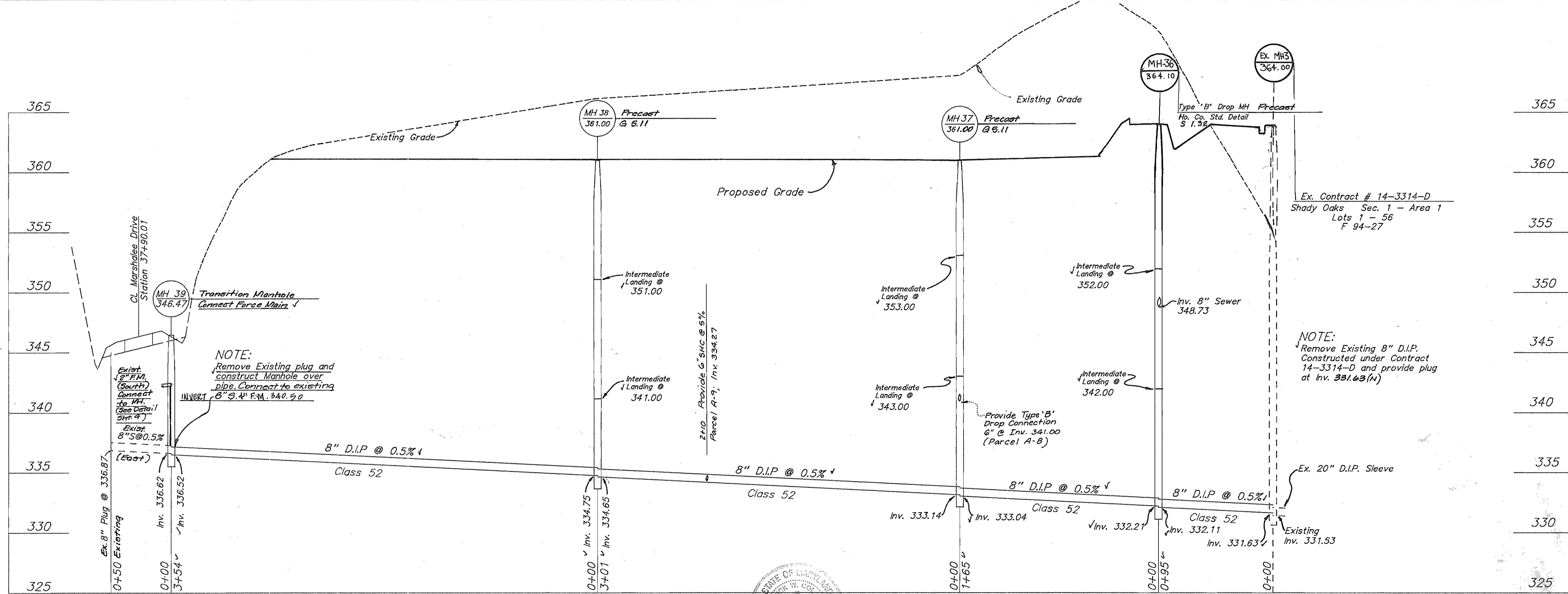
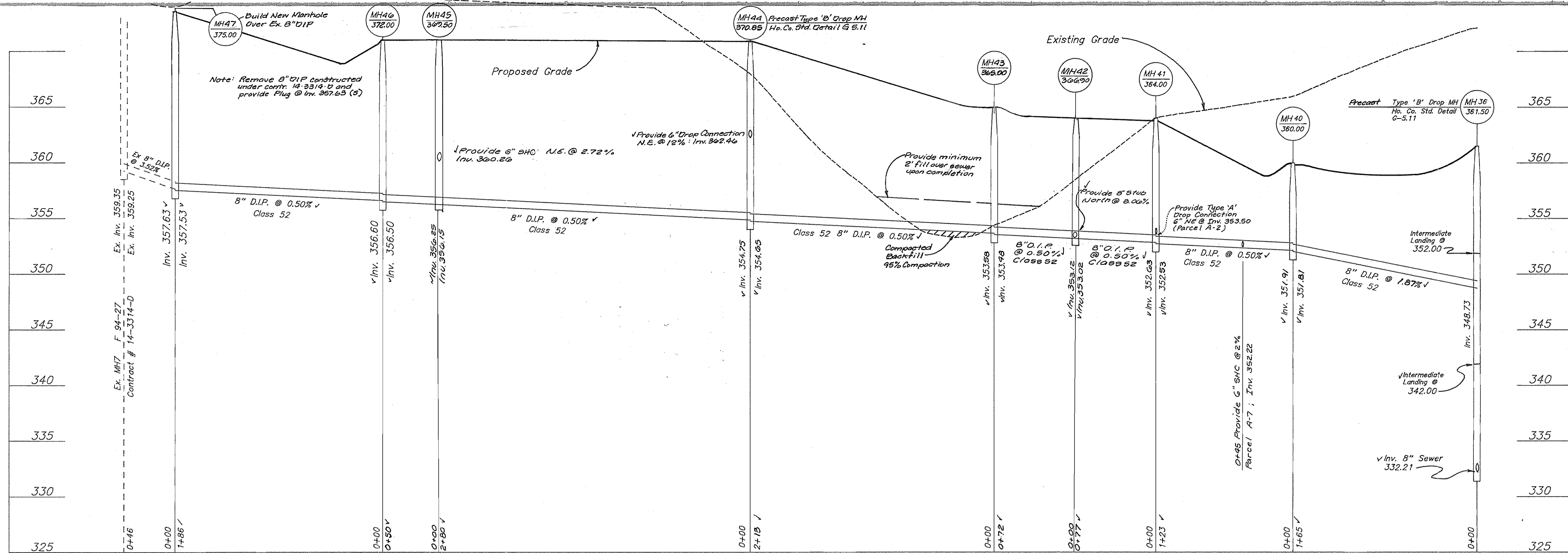
PROFILE

Lyndwood Square  
Parcels A-1, A-2, A-6, A-7 thru A-9, B and Q-1

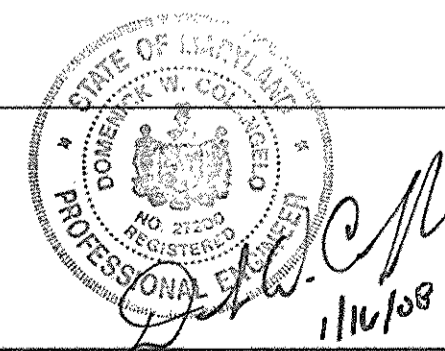
1st Election District Howard County, Maryland  
Contract No. 14-35310

SCALE  
1"=50' Horiz.  
1"=5' Vert.  
SHEET  
4 of 4

2321 W 130th SQUARE



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS AND FINAL ROAD CONSTRUCTION PLANS:  
F 94-27 / SDP 96-92



Michael A. Nussamer for 6/21/96  
CHIEF-BUREAU OF UTILITIES DATE

*[Signature]* 7/10/96  
CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

**LOE, INC.**  
9250 RUMSEY ROAD, SUITE 106  
COLUMBIA, MARYLAND 21045  
(410) 715-1070 (301) 596-3424



DESIGNED E.D.S./T.D.	
DRAWN CAD/	
CHECKED B.D.B.	
DATE Feb. 1996	
E.M.R. $\Delta$	RAISED MH-36 + EX. MH3 A AND REV. PROR. GRADE 12-17-97
L.D.E. $\Delta$	Add SMC Info, Parcels A-2, A-7, A-8 & A-9 2/98
BY NO.	REVISION

**PROFILE**

600 SCALE MAP NO. 37 BLOCK 11

**Lyndwood Square**  
Parcels A-1, A-2, A-6, A-7 thru A-9, B and Q-1

1st Election District Howard County, Maryland  
Contract No. 14-3531-D

SCALE  
1"=50' Horiz.  
1"=5' Vert.

SHEET  
3 of 4