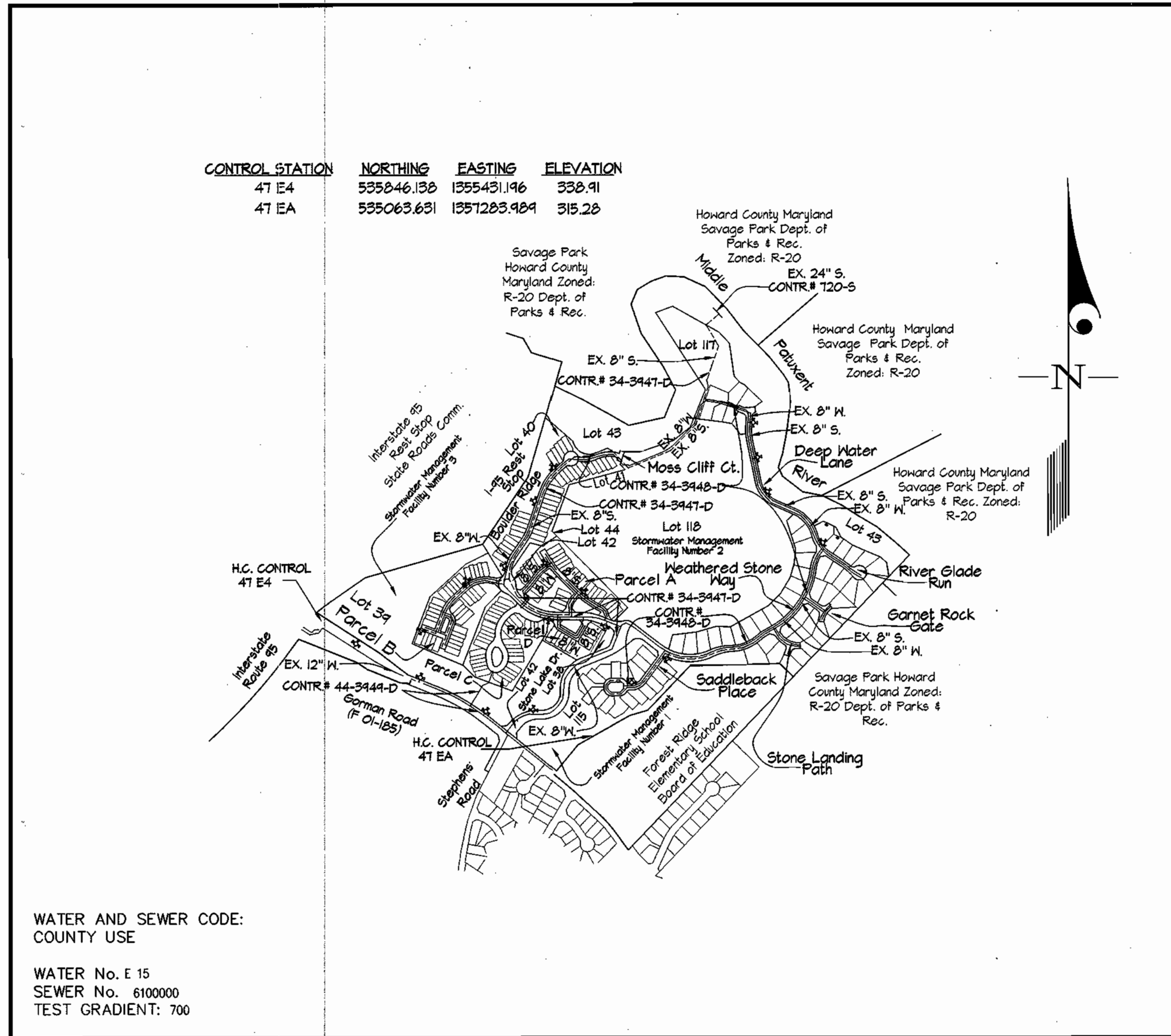


QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
4" SHC	914 LF			
8" SEWER	1217 LF			
4" MANHOLES	24 EA.			
TYPE 'B' DROP CONN.	1 EA.			
1" MHC	1342 LF			
4" WATER	24 LF			
4" CAP	1 EA.			
6" WATER	21 LF			
8" WATER	1302 LF			
8" 1/8" HB	11 EA.			
8" 1/16" HB	1 EA.			
8" 1/32" HB	2 EA.			
8"x8" T	2 EA.			
8" V	2 EA.			
8"x4" REDUCER	1 EA.			
FIRE HYDRANTS	2 EA.			
8"x6" FHT	2 EA.			
6" V	2 EA.			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIV.		CHECKBOX: AS-BUILT DATE:		

TYPE OF BUILDING	TOWNHOUSE
NUMBER OF UNITS	45
NUMBER OF S.H.C.'s	45
NUMBER OF W.H.C.'s	45
DRAINAGE AREA	MIDDLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WATER RECLAMATION PLANT



WATER AND SEWER CODE:
COUNTY USE

WATER No. E 15
SEWER No. 6100000
TEST GRADIENT: 700

VICINITY MAP
SCALE: 1"=600'

STONE LAKE
CONTRACT No. 34-4184-D
LOTS A-1 THRU A-38, D-1 THRU D-14 & LOT 122
LAKE EDGE DRIVE, MISTY WATER WAY,
MIRROR LAKE WAY & BOULDER HILL PLACE
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

- PART I**
- APPROXIMATE LOCATIONS 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, NAD 83/11.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD 83.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES 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 (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 (P) AT THE LOCATIONS 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.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
- | | |
|-----------------------------------|-----------------------------|
| AT&T | 1-800-252-1153 |
| BGE (CONTRACTOR SERVICES) | 410-950-4620 |
| BGE (UNDER GROUND DAMAGE CONTROL) | 410-187-4068 |
| BUREAU OF UTILITIES | 410-315-4900 |
| COLONIAL PIPELINE CO. | 410-745-1990 |
| MISS UTILITY | 1-800-251-7111 |
| STATE HIGHWAY ADMINISTRATION | 410-531-5533 |
| VERIZON | 1-800-743-0033/410-224-4210 |
- 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.
 - THE 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.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-315-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD OR BORING/JACKING OPERATION ON COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENT PER SECTION 18.14(A) OF THE HOWARD COUNTY CODE.
- PART II - WATER**
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO 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 INSTALLED IN ACCORDANCE WITH 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.
- PART III - SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED P.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL, SS 52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE 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 THE CELLAR CANNOT BE SERVED.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS & WITH ROAD DRAWINGS PLAN F-04-48; DRAWINGS FOR SEDIMENT & EROSION CONTROL.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

Jim Meyer 1/30/04
 SIGNATURE DATE
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

APPROVED: *John C. Robertson* 1/30/04
 HOWARD S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Ruth Berman 1-27-04
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

John C. Robertson 2/4/04
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BIRTONSVILLE OFFICE PARK
 BIRTONSVILLE, MARYLAND 20856
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: WBJ					
DRN: WBJ					
CHK: rot					
DATE: 2004	BY	NO	REVISION	DATE	

TITLE SHEET
 SCALE: AS SHOWN

600' SCALE MAP NO. 47 BLOCK NO. 9/10

STONE LAKE
 LOTS A-1 THRU A-38,
 LOTS D-1 THRU D-14 & LOT 122
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 6
CONTRACT No. 34-4184-D

GLW FILE No.
 99140

SCALE
 AS
 SHOWN

SHEET
 1 OF 3

LOT FRONTAGE TABLE

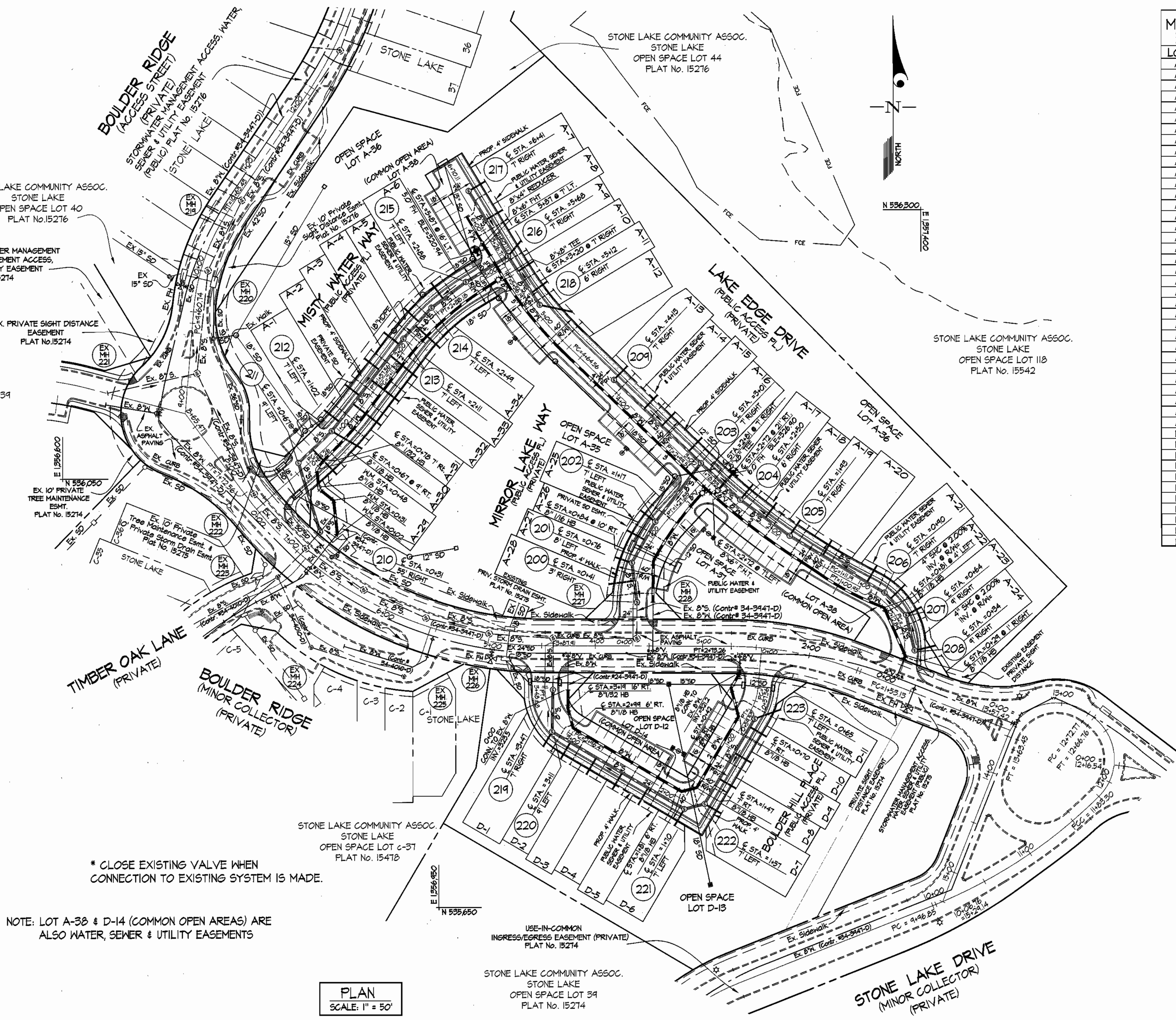
LOT No.	DISTANCE (feet)
A-1	29.51
A-2	30.19
A-3	30.20
A-4	30.08
A-5	29.03
A-6	40.24
A-7	40.00
A-8	28.00
A-9	28.00
A-10	28.02
A-11	28.20
A-12	41.00
A-13	40.00
A-14	28.00
A-15	28.00
A-16	40.00
A-17	40.03
A-18	28.01
A-19	28.07
A-20	40.31
A-21	34.84
A-22	28.17
A-23	29.62
A-24	41.10
A-25	31.17
A-26	28.18
A-27	28.18
A-28	35.47
A-29	37.01
A-30	28.08
A-31	28.01
A-32	28.00
A-33	28.00
A-34	40.28
D-1	44.17
D-2	28.01
D-3	28.00
D-4	28.00
D-5	28.00
D-6	28.00
D-7	27.14
D-8	28.00
D-9	28.00
D-10	28.00
D-11	41.93

CRIMPING RADIUS TABULATION(LAKE EDGE DRIVE)

BEGIN C/ STATION	END C/ STATION	CRIMPING RADIUS
0+55	1+23	286'
1+38	2+11	657'
4+36	5+30	361'

CRIMPING RADIUS TABULATION(MISTY WATER WAY)

BEGIN C/ STATION	END C/ STATION	CRIMPING RADIUS
0+80	1+42	359'
1+47	2+47	286'



* CLOSE EXISTING VALVE WHEN CONNECTION TO EXISTING SYSTEM IS MADE.

NOTE: LOT A-38 & D-14 (COMMON OPEN AREAS) ARE ALSO WATER, SEWER & UTILITY EASEMENTS

PLAN
SCALE: 1" = 50'

LOT NO.	MINIMUM CELLAR ELEVATIONS	INV. @ R/W ELEV.
A-1	311.06	307.76
A-2	311.84	308.54
A-3	312.61	309.31
A-4	313.31	310.01
A-5	313.44	310.14
A-6	314.30	311.00
A-7	315.52	312.22
A-8	315.31	312.01
A-9	315.16	311.86
A-10	315.78	312.48
A-11	317.04	313.74
A-12	318.21	314.91
A-13	320.15	316.85
A-14	320.46	317.16
A-15	320.23	316.93
A-16	320.01	316.71
A-17	320.34	317.04
A-18	320.76	317.46
A-19	321.25	317.95
A-20	321.56	318.26
A-21	322.45	319.15
A-22	322.76	319.46
A-23	323.12	319.82
A-24	323.17	319.87
A-25	323.06	319.76
A-26	319.31	316.11
A-27	319.14	315.94
A-28	319.14	315.94
A-29	310.52	307.06
A-30	311.21	307.85
A-31	311.87	308.51
A-32	312.57	309.21
A-33	313.25	309.89
A-34	314.10	310.74
D-1	323.80	320.5
D-2	323.81	320.55
D-3	323.92	320.66
D-4	324.05	320.79
D-5	324.23	320.97
D-6	324.55	321.29
D-7	322.84	321.75
D-8	324.04	322.04
D-9	325.10	322.56
D-10	326.23	323.69
D-11	326.60	323.42

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
1-27-04

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
2/14/04

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-388-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



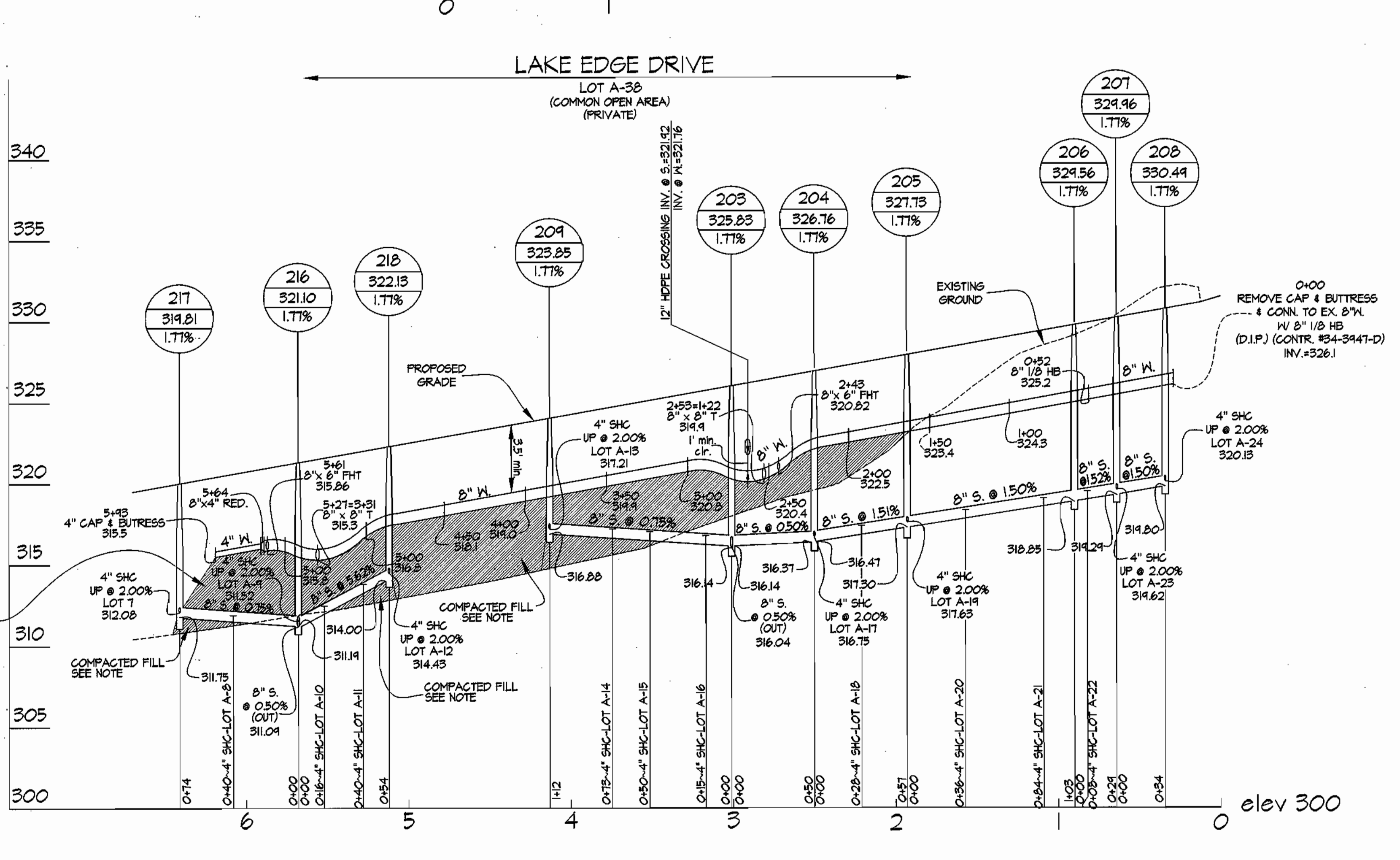
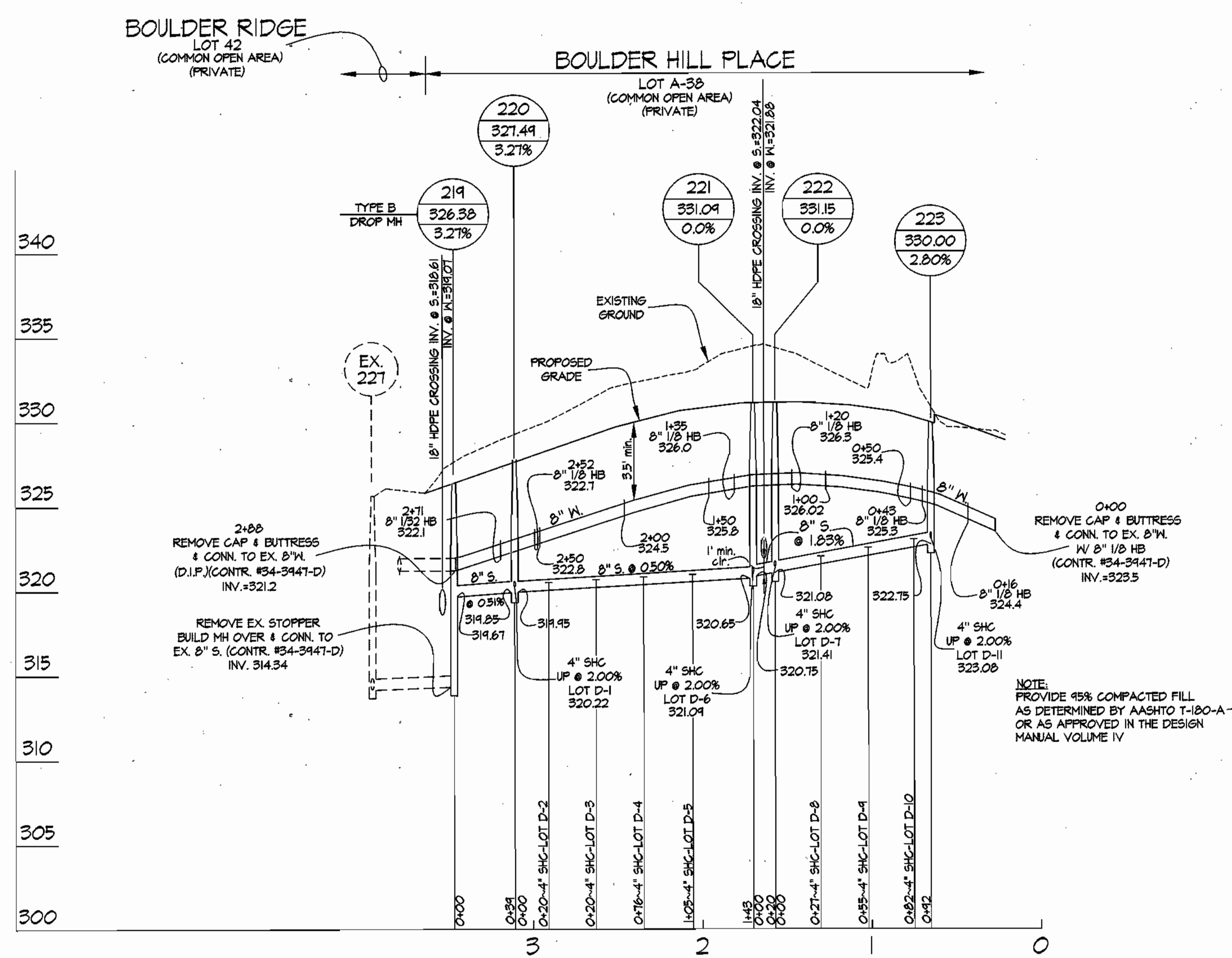
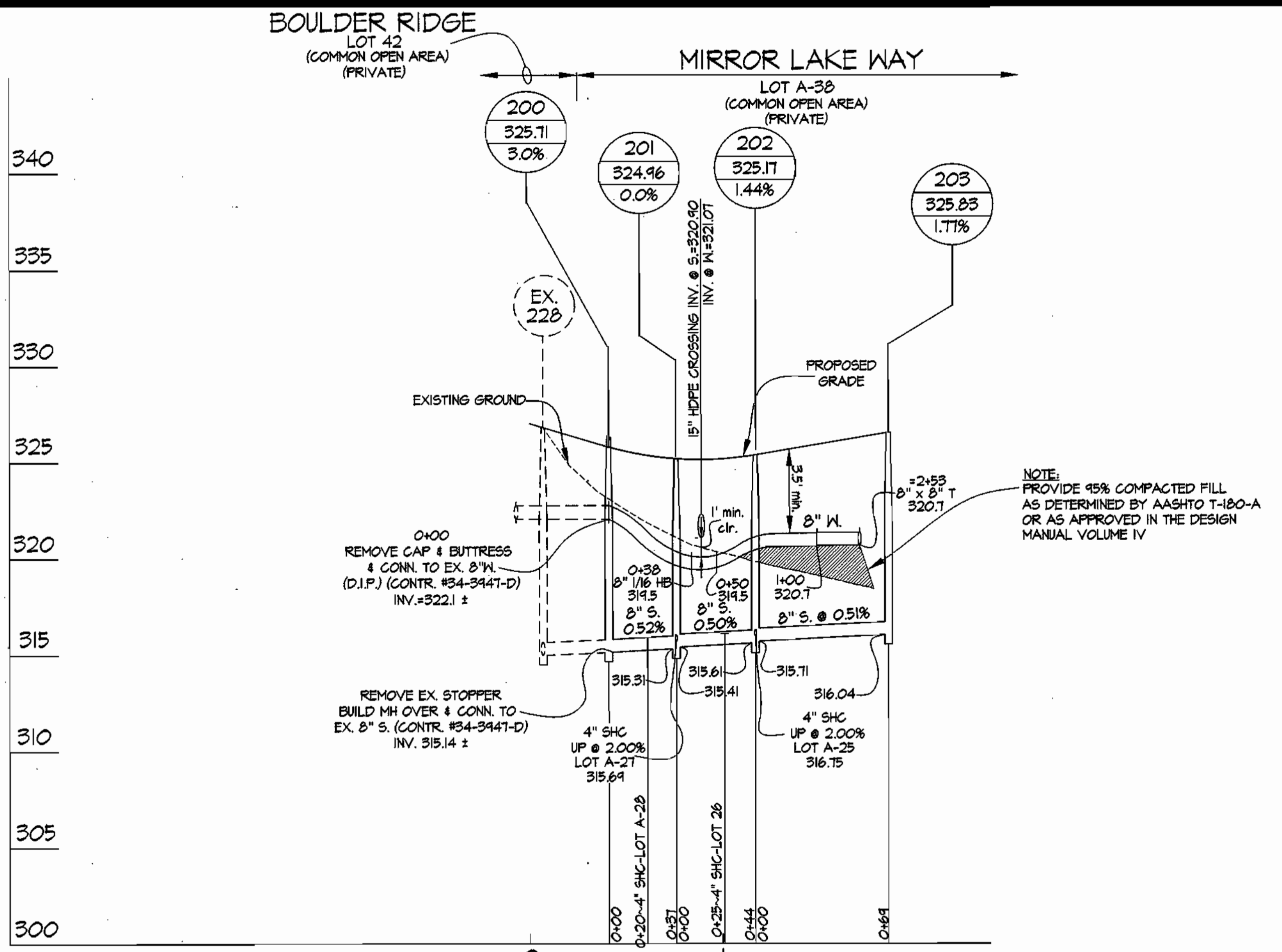
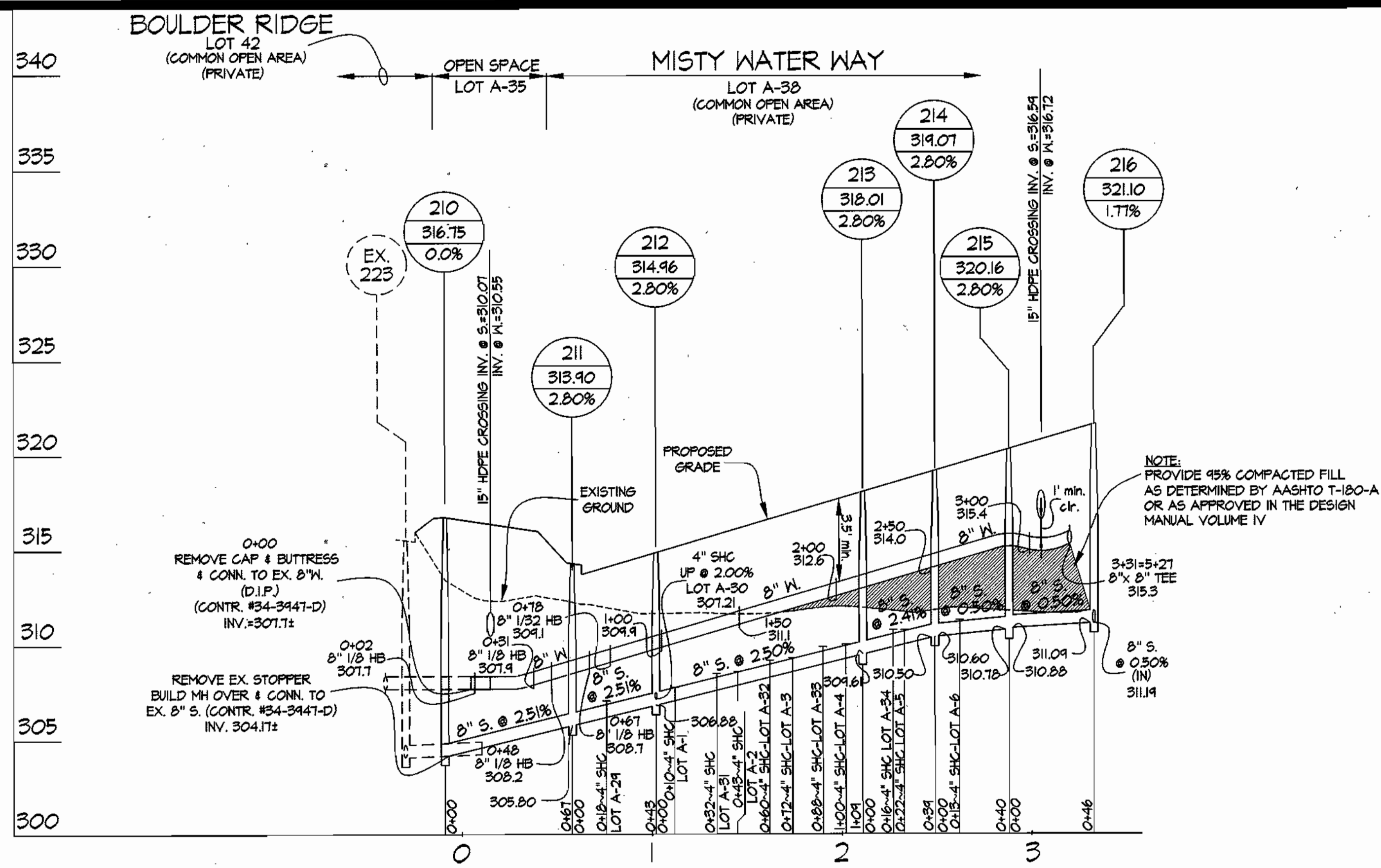
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DRN: M&J/KJP					
CHK: M&J					
JAN, 2004	BY	NO	REVISION	DATE	

WATER and SEWER PLAN
600' SCALE MAP NO. 47 BLOCK NO. 9/10

STONE LAKE
LOTS A-1 THRU A-38,
LOTS D-1 THRU D-14 & LOT 122
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No.6
CONTRACT No. 34-4184-D

SCALE AS SHOWN
SHEET 2 OF 3

GLW FILE #99140
99140WS2.dwg



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 1-27-04

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTCHVILLE, MARYLAND 20886
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: WBJ				
DRN: WBJ				
CHK: <i>WBJ</i>				
DATE: JAN, 2004	BY: NO	REVISION	DATE	

WATER and SEWER EXTENSION PLAN
 600' SCALE MAP NO. 47 BLOCK NO. 9/10

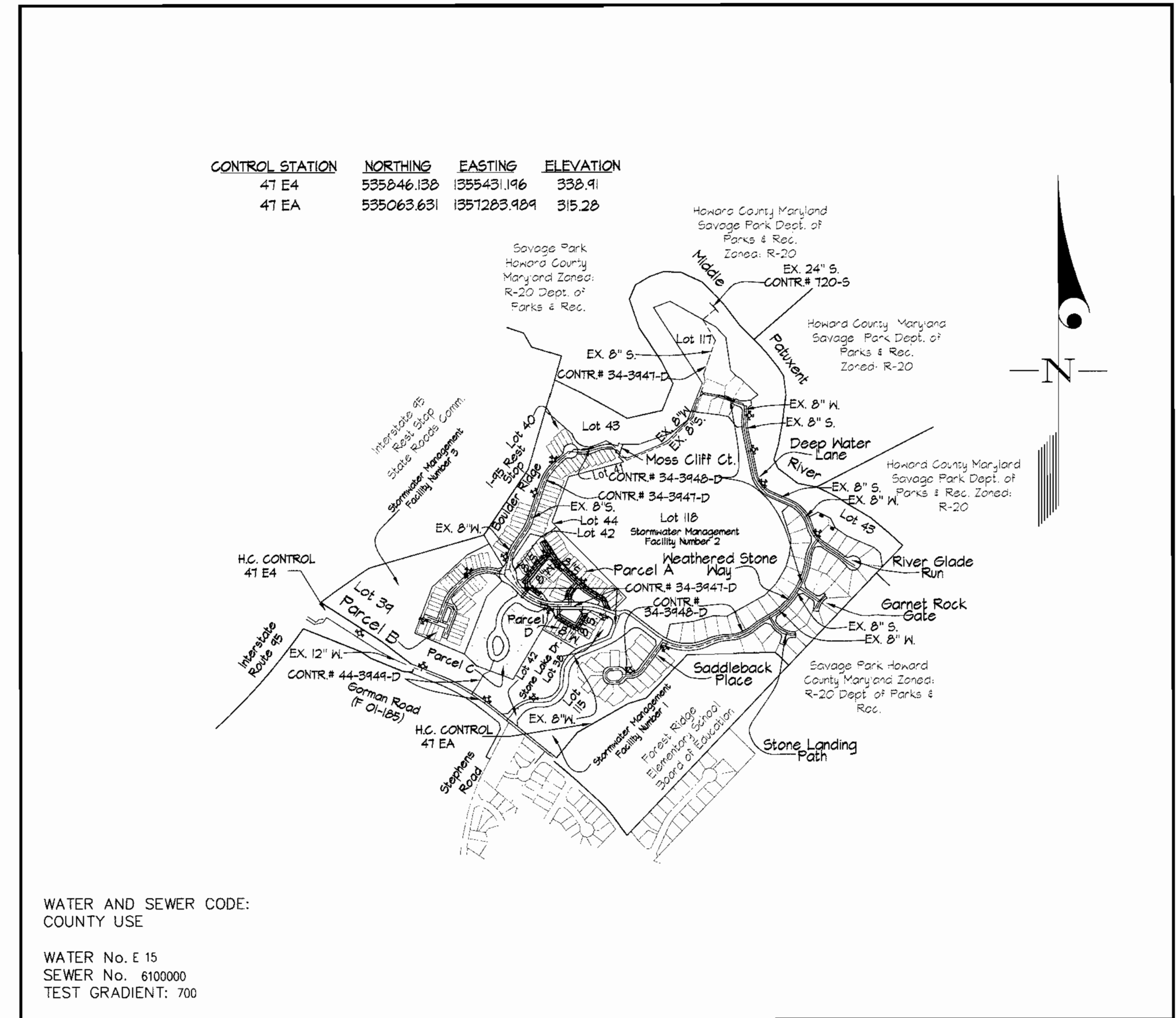
STONE LAKE
 LOTS A-1 THRU A-38,
 LOTS D-1 THRU D-14 & LOT 122
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 6
CONTRACT No. 34-4184-D

SCALE AS SHOWN
 SHEET 3 OF 3

GLW FILE #99140
 99140WS3.dwg

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
DROP HOUSE CONN.	30 EA			
4" SHC	842 LF			
8" SEWER	1336 LF			
4" MANHOLES	21 EA			
TYPE "B" DROP CONN.	1 EA			
1" MHC	1470 LF			
4" WATER	168 LF			
4" CAP	2 EA			
6" WATER	21 LF			
8" WATER	1302 LF			
8" 1/2 HB	11 EA			
8" 1/6 HB	1 EA			
8" 1/2 HB	2 EA			
8"x8" T	2 EA			
8" V	2 EA			
8"x4" REDUCER	1 EA			
8"x4" TEE	1 EA			
FIRE HYDRANTS	2 EA			
8"x6" FHT	2 EA			
6" V	2 EA			
4" 1/2 HB	1 EA			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIV.		CHECKBOX:	AS-BUILT DATE:	

TYPE OF BUILDING	TOWNHOUSE
NUMBER OF UNITS	45
NUMBER OF S.H.C.'s	45
NUMBER OF W.H.C.'s	45
DRAINAGE AREA	MIDDLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WATER RECLAMATION PLANT



GENERAL NOTES

- PART I**
- APPROXIMATE LOCATIONS 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, NAD 83/91.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12'. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES 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 (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 (S) AT THE LOCATIONS 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 MADE SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1-800-252-1133
BGE (CONTRACTOR SERVICES)	410-850-4620
BGE (UNDER GROUND DAMAGE CONTROL)	410-181-4068
BUREAU OF UTILITIES	410-313-4400
COLONIAL PIPELINE CO.	410-745-1390
MISS UTILITY	1-800-251-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033/410-224-9210

- 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.
- THE 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD OR BORING/JACKING OPERATION ON COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPM REQUIREMENT PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.

- PART II - WATER**
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO 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 INSTALLED IN ACCORDANCE WITH 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.

- PART III - SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED "M.T." IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL 65.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

NOTE: THIS REPLACEMENT SHEET SUPERCEDES THE TITLE SHEET DATED JAN., 2004

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS & WITH ROAD DRAWINGS PLAN F-04-48; DRAWINGS FOR SEDIMENT & EROSION CONTROL.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
John K. Roberts 2/3/05
 SIGNATURE DATE
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

APPROVED:
Jim Myer 2/3/05
 HOWARD S.C.D. DATE

VICINITY MAP
 SCALE: 1"=600'

STONE LAKE

CONTRACT No. 34-4184-D

LOTS A-1 THRU A-6, A-26 THRU A-28, A-37 THRU A-66, D-1 THRU D-14 & LOT 122

LAKE EDGE DRIVE, MISTY WATER WAY, MIRROR LAKE WAY & BOULDER HILL PLACE

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

GLW FILE No. 99140

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Ruth Bering 2-9-05
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
Michael... 4/15/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: WBJ					
DRN: WBJ					
CHK: WBJ					
DATE: JAN 2005	BY: NO	REVISION	DATE	600' SCALE MAP NO. 47	BLOCK NO. 9/10

TITLE SHEET
 SCALE: AS SHOWN

STONE LAKE
 LOTS A-1 THRU A-6, A-26 THRU A-28, A-37 THRU A-66
 LOTS D-1 THRU D-14 & LOT 122
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 6
CONTRACT No. 34-4184-D

SCALE AS SHOWN
 SHEET 1 OF 3

LOT FRONTAGE TABLE

LOT No.	DISTANCE (feet)
A-1	29.51
A-2	30.19
A-3	30.20
A-4	30.08
A-5	29.03
A-6	40.29
A-26	28.18
A-27	28.18
A-28	35.47
A-39	44.17
A-40	32.12
A-41	32.12
A-42	32.11
A-43	40.03
A-44	40.00
A-45	32.00
A-46	32.00
A-47	32.00
A-48	40.00
A-49	40.01
A-50	32.04
A-51	32.15
A-52	40.48
A-53	32.45
A-54	32.42
A-55	45.81
A-56	31.17
A-57	40.18
A-58	28.01
A-59	40.04
A-60	33.51
A-61	28.01
A-62	28.01
A-63	40.00
D-1	44.17
D-2	28.01
D-3	28.00
D-4	28.00
D-5	28.00
D-6	28.00
D-7	27.74
D-8	28.00
D-9	28.00
D-10	28.00
D-11	41.93

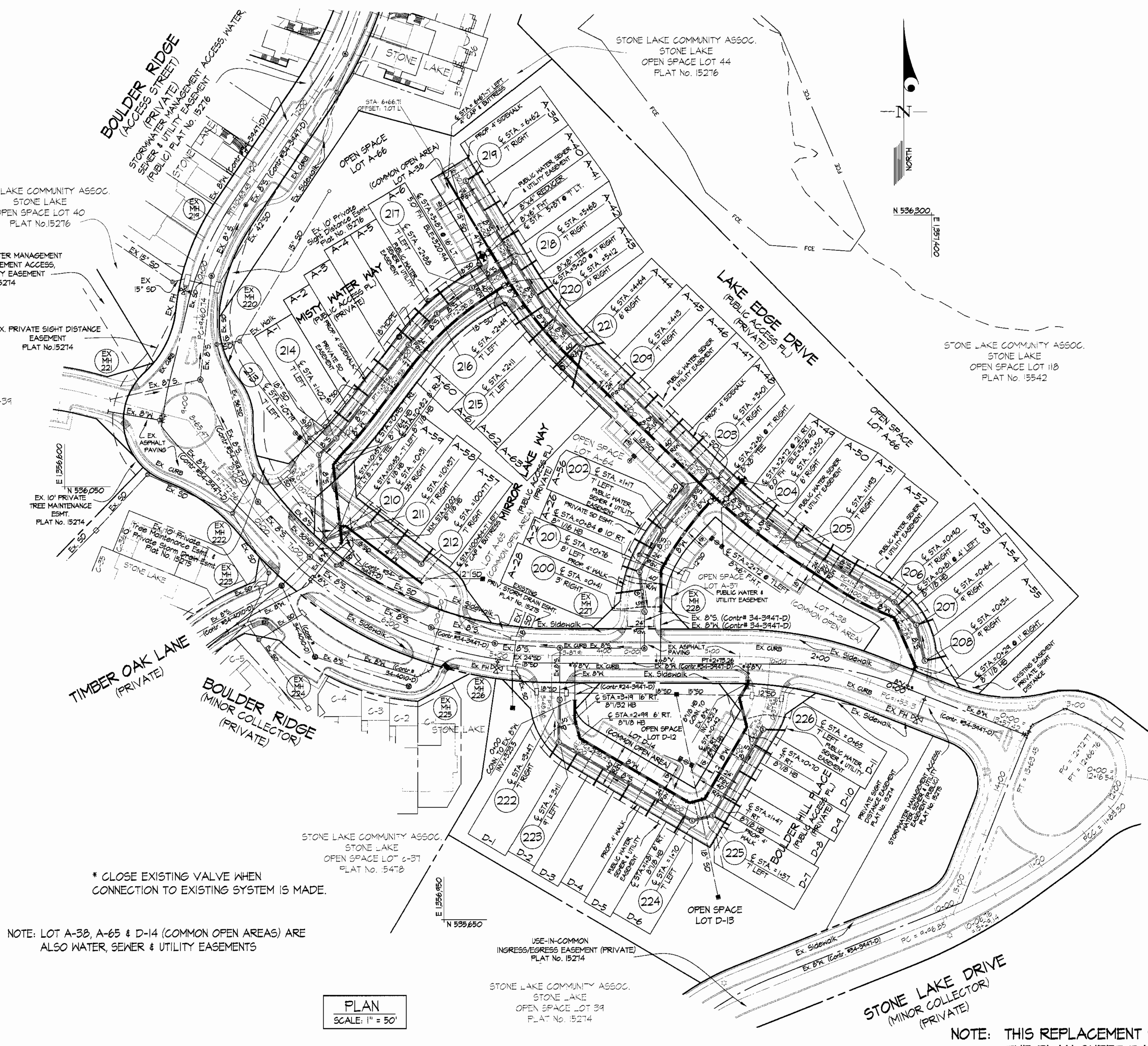
LOT NO.	ELEV.	INV. @ R/W ELEV.
A-1	314.30	310.40
A-2	315.42	311.86
A-3	316.21	312.71
A-4	317.05	313.57
A-5	318.09	314.61
A-6	318.36	314.90
A-26	324.89	321.42
A-27	319.19	315.99
A-28	324.96	321.50
A-39	315.58	312.28
A-40	319.25	315.75
A-41	319.61	316.32
A-42	320.35	316.91
A-43	320.70	317.35
A-44	322.25	318.85
A-45	320.75	317.55
A-46	323.45	319.97
A-47	323.98	320.51
A-48	324.33	320.93
A-49	326.07	322.64
A-50	326.69	323.17
A-51	321.35	323.79
A-52	321.59	324.13
A-53	328.52	325.16
A-54	323.12	319.90
A-55	323.77	320.47
A-56	325.36	321.86
A-57	319.79	316.43
A-58	318.35	314.84
A-59	316.12	313.26
A-60	321.29	317.81
A-61	321.66	318.18
A-62	322.13	318.66
A-63	322.61	319.21
D-1	323.80	320.50
D-2	321.86	323.82
D-3	328.11	324.67
D-4	329.01	325.57
D-5	329.61	326.19
D-6	329.79	326.37
D-7	322.84	321.75
D-8	330.03	326.51
D-9	329.79	326.37
D-10	329.43	325.97
D-11	326.60	323.42

CRIMPING RADIUS TABULATION(LAKE EDGE DRIVE)

BEGIN C STATION	END C STATION	CRIMPING RADIUS
0+55	1+23	286'
1+38	2+11	637'
4+36	5+30	361'

CRIMPING RADIUS TABULATION(MISTY WATER WAY)

BEGIN C STATION	END C STATION	CRIMPING RADIUS
0+46	1+30	359'
1+25	2+25	226'



* CLOSE EXISTING VALVE WHEN CONNECTION TO EXISTING SYSTEM IS MADE.

NOTE: LOT A-38, A-65 & D-14 (COMMON OPEN AREAS) ARE ALSO WATER, SEWER & UTILITY EASEMENTS

PLAN
SCALE: 1" = 50'

NOTE: THIS REPLACEMENT SHEET SUPERCEDES THE PLAN SHEET DATED JAN., 2004

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. J. B... 2-9-05
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
... 2/15/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



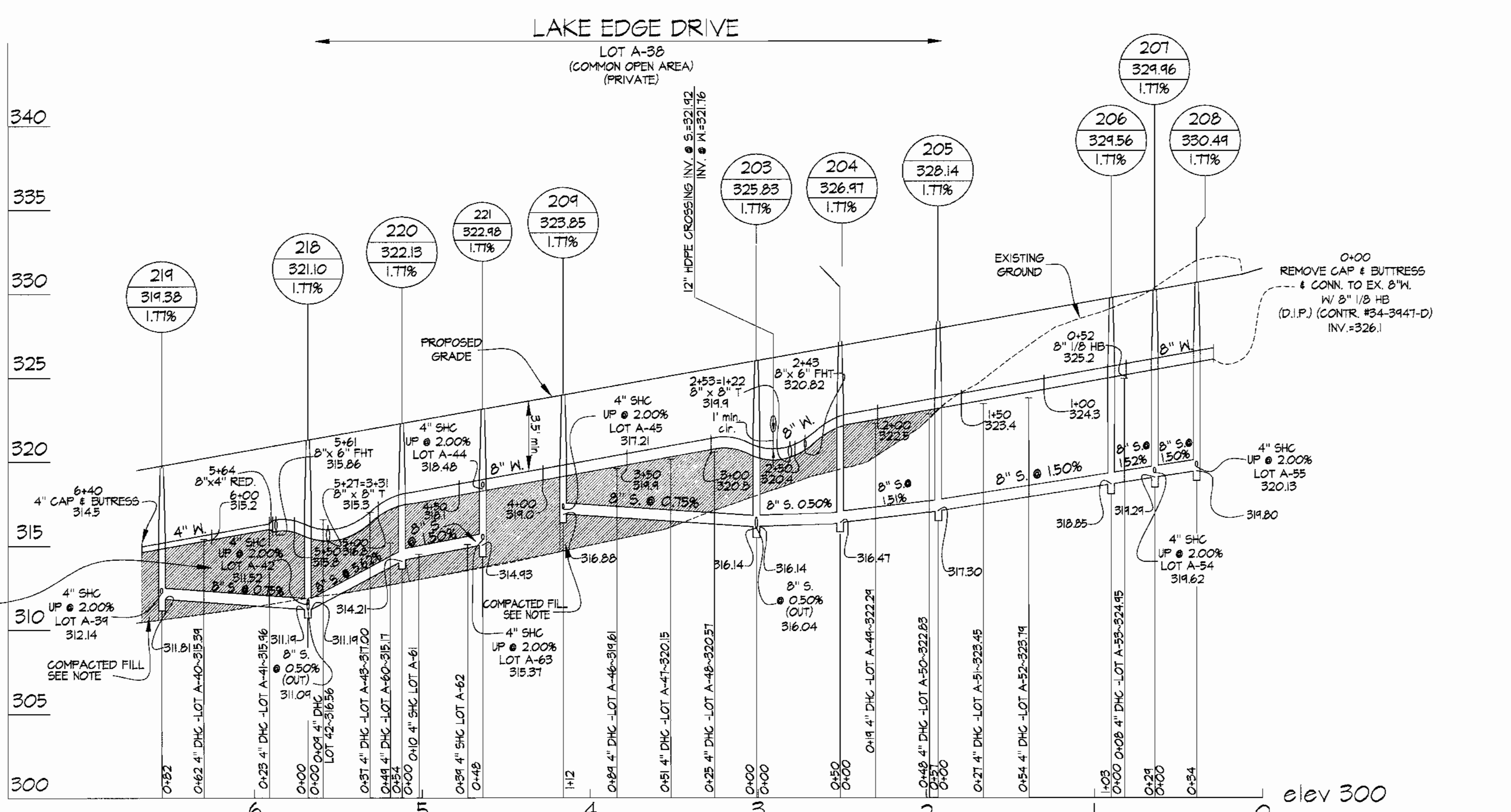
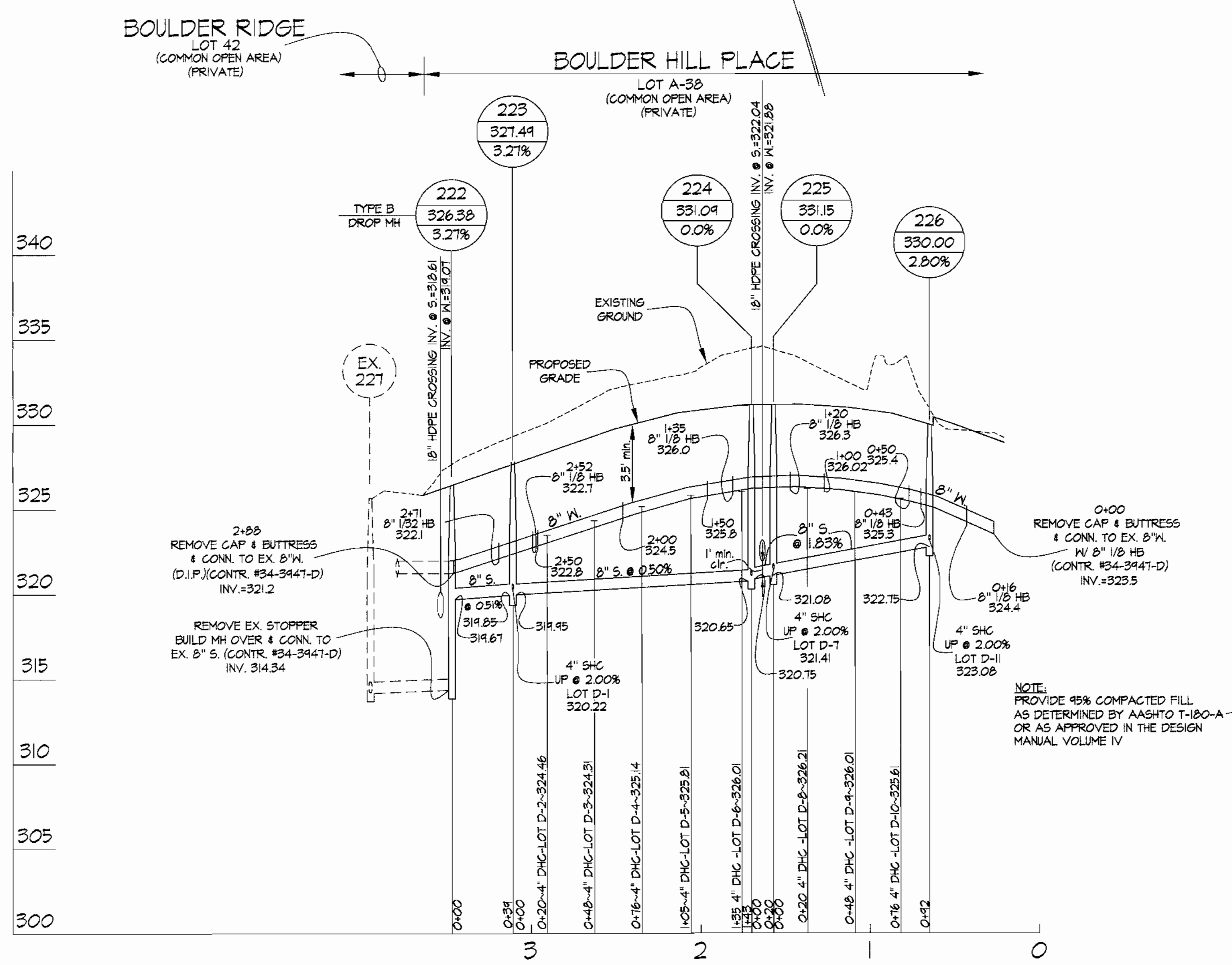
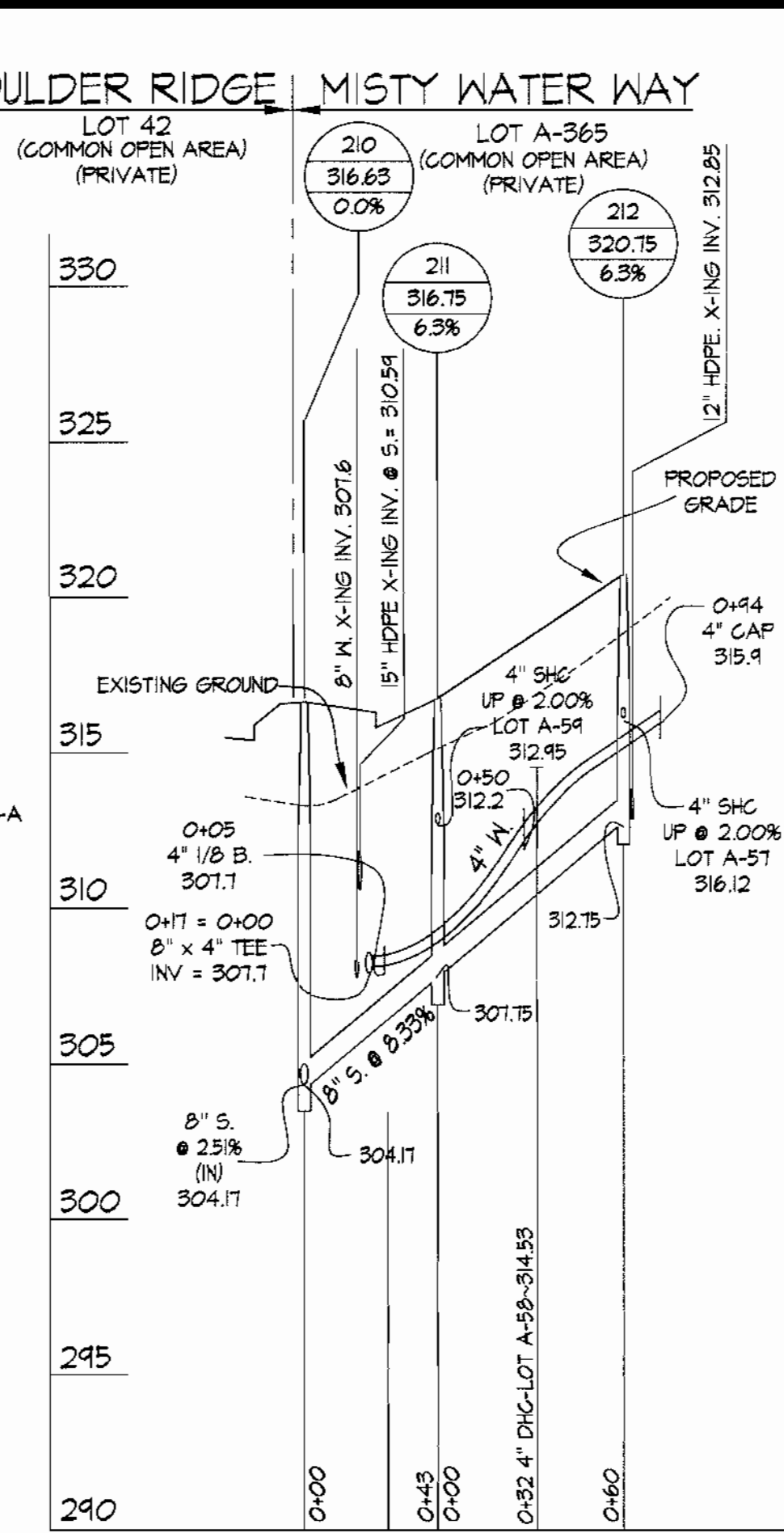
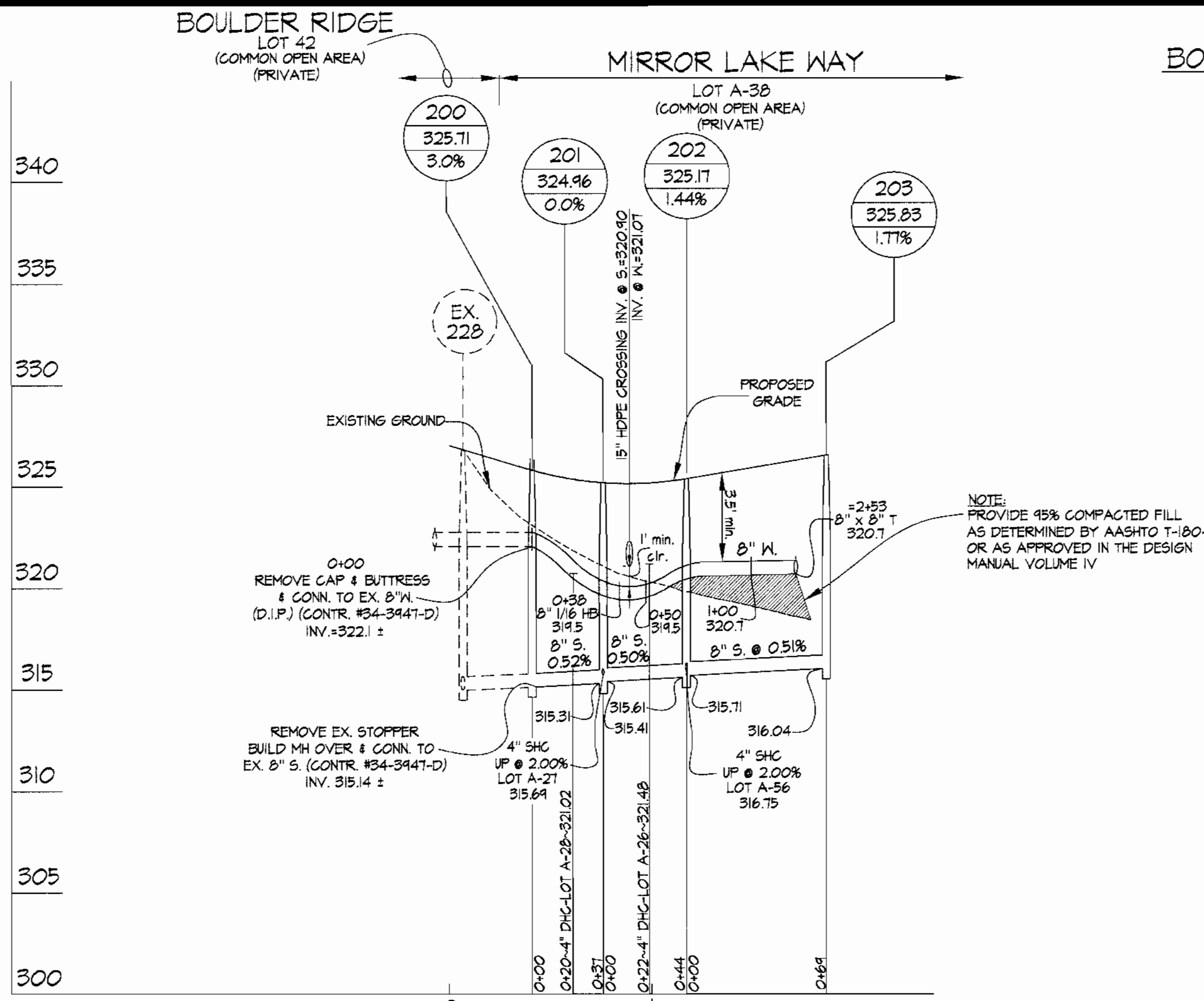
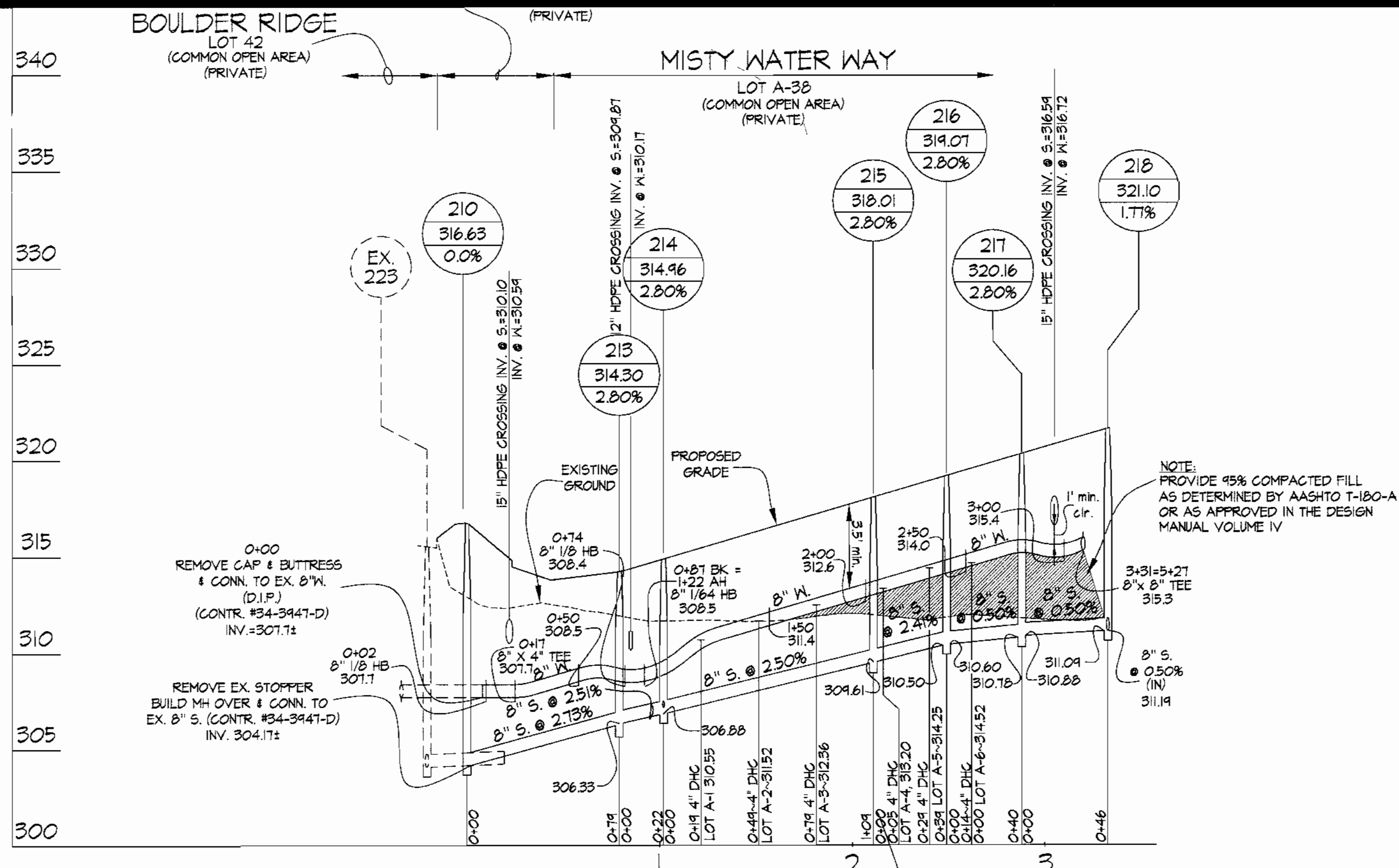
DES: M&J					
DRN: M&J/K/P					
CHK: [Signature]					
DATE: JAN. 2005	BY: NO	REVISION	DATE	600' SCALE MAP NO. 47	BLOCK NO. 9/10

WATER and SEWER
PLAN

STONE LAKE
LOTS A-1 THRU A-6, A-26 THRU A-28, A-37 THRU A-66
LOTS D-1 THRU D-14 & LOT 122
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 6
CONTRACT No. 34-4184-D

SCALE AS SHOWN
SHEET 2 OF 3

GLW FILE #99140
99140WS2.dwg



NOTE: THIS REPLACEMENT SHEET SUPERCEDES THE PROFILES SHEET DATED JAN., 2004

GLW FILE #99140 99140WS3.dwg

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert A. Benjamin 2-9-05
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Michael J. ... 4/5/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 230 - BURTNSVILLE OFFICE PARK
BURTNSVILLE, MARYLAND 20886
TEL: 301-421-4024 FAX: 301-421-4186

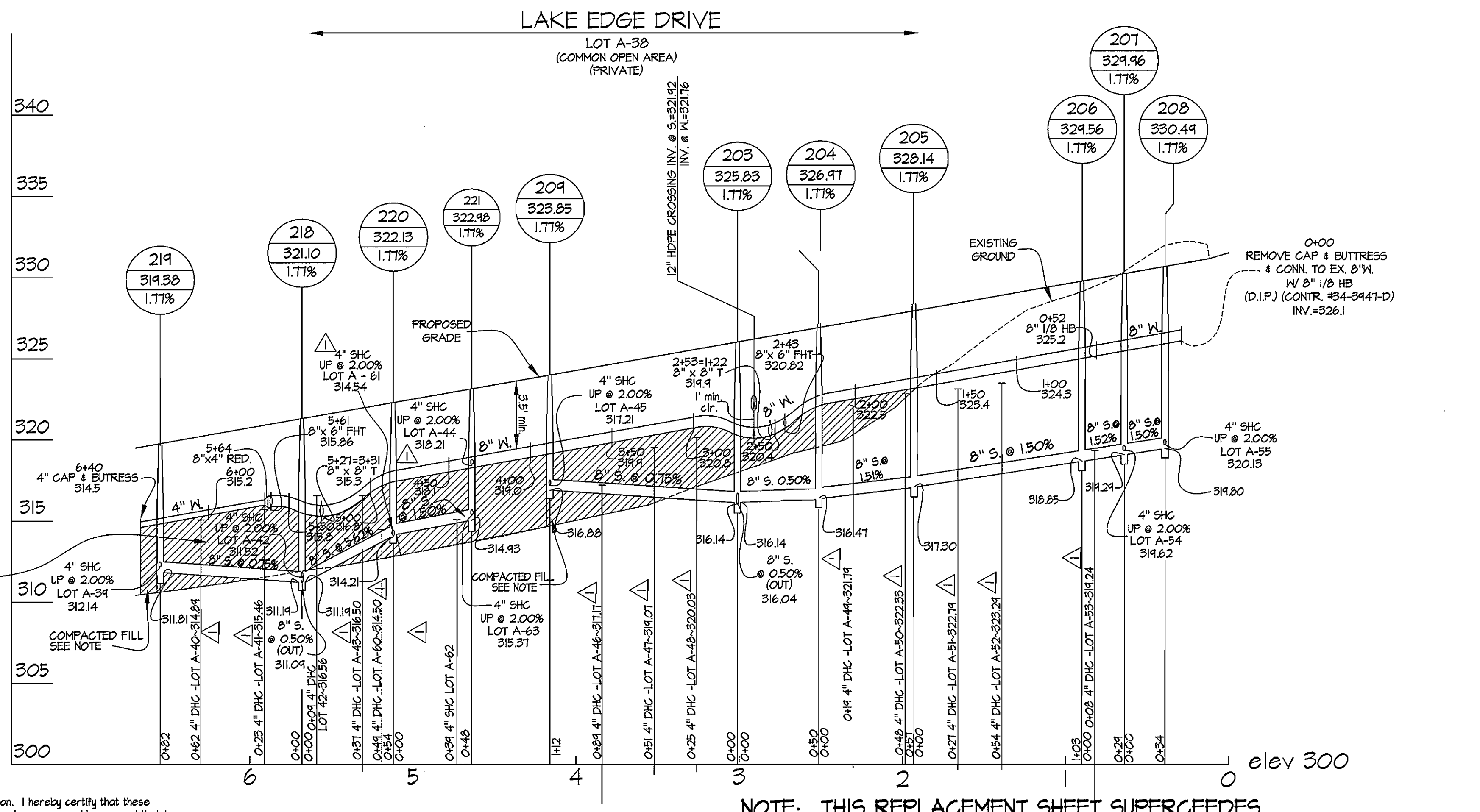
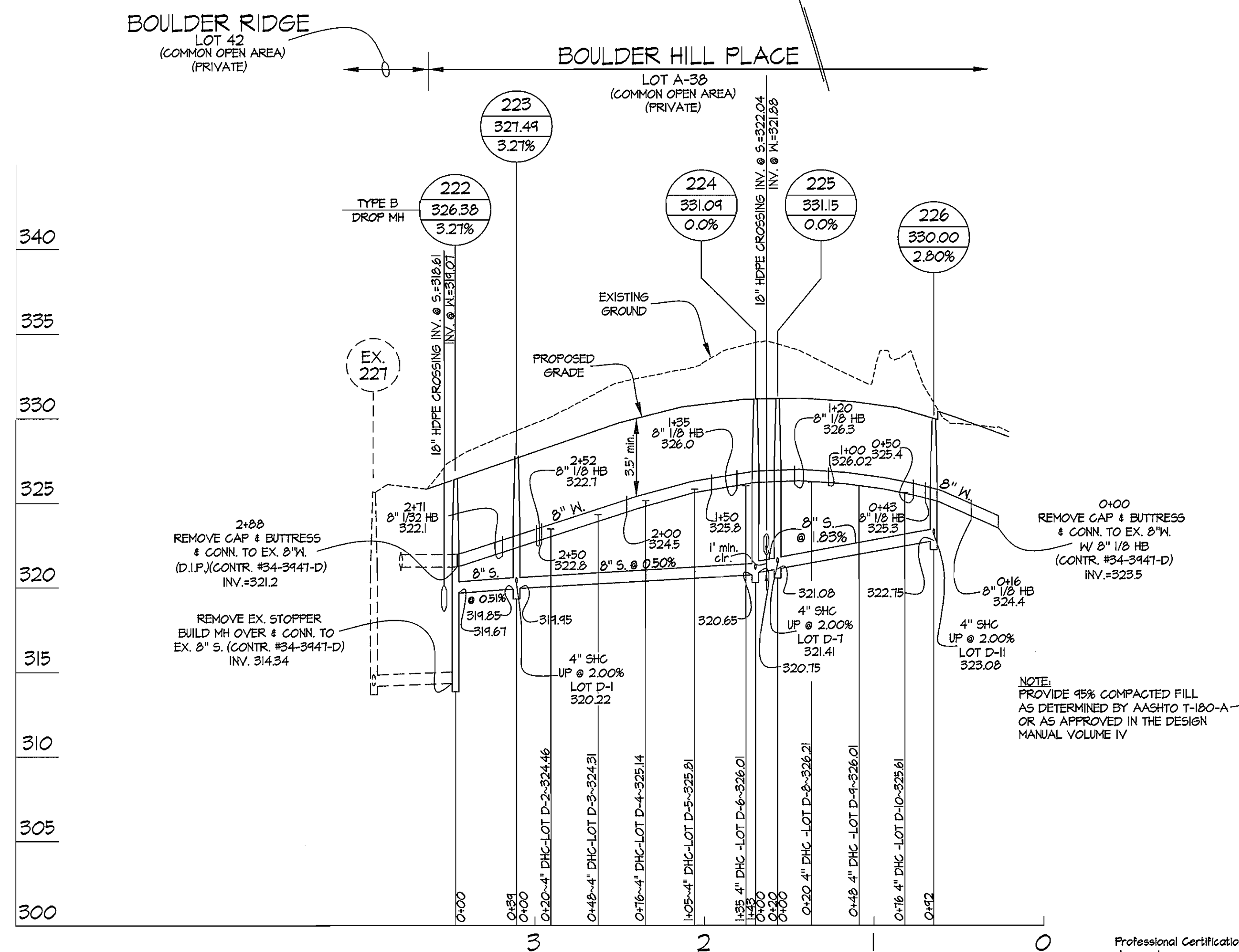
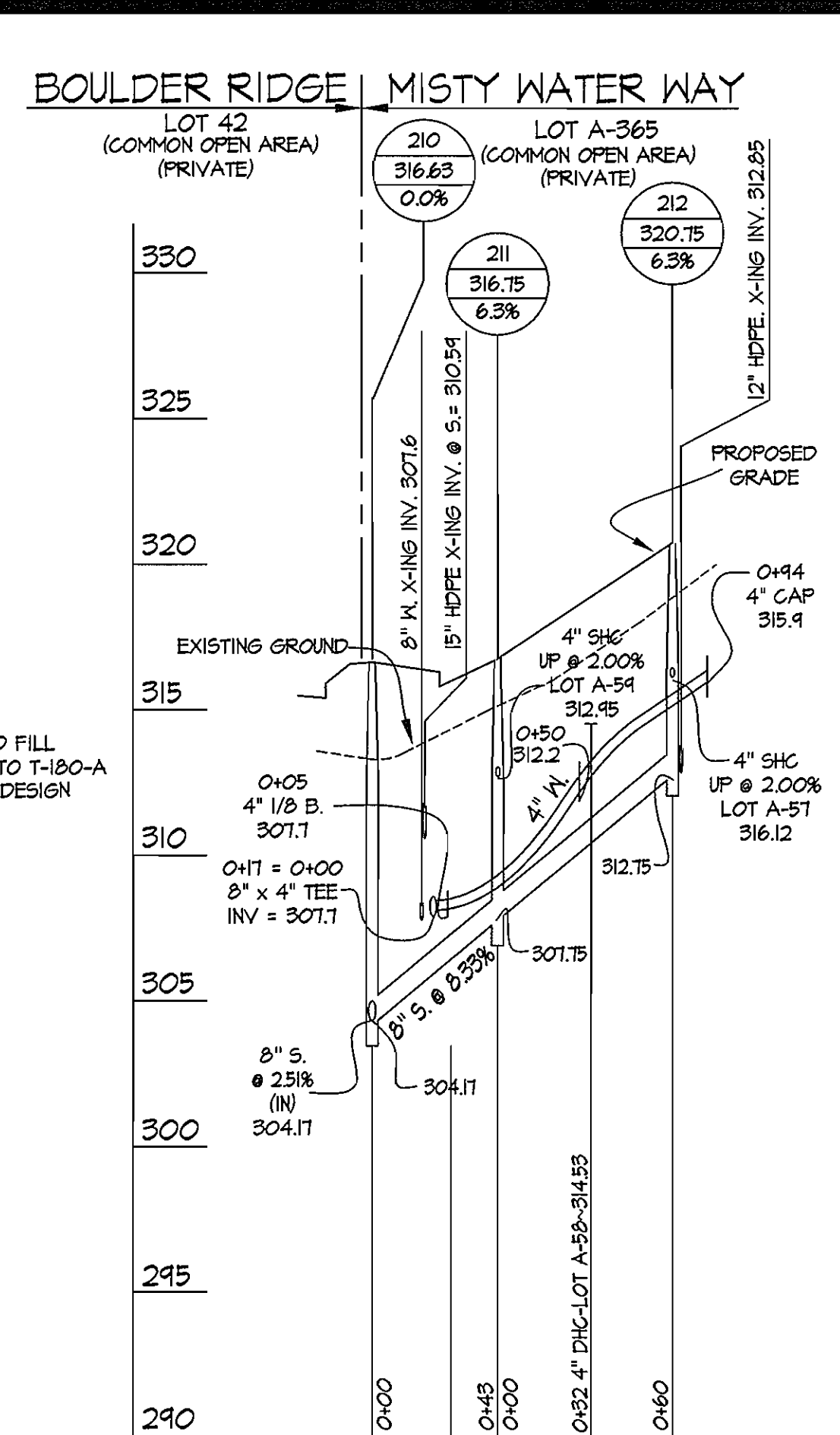
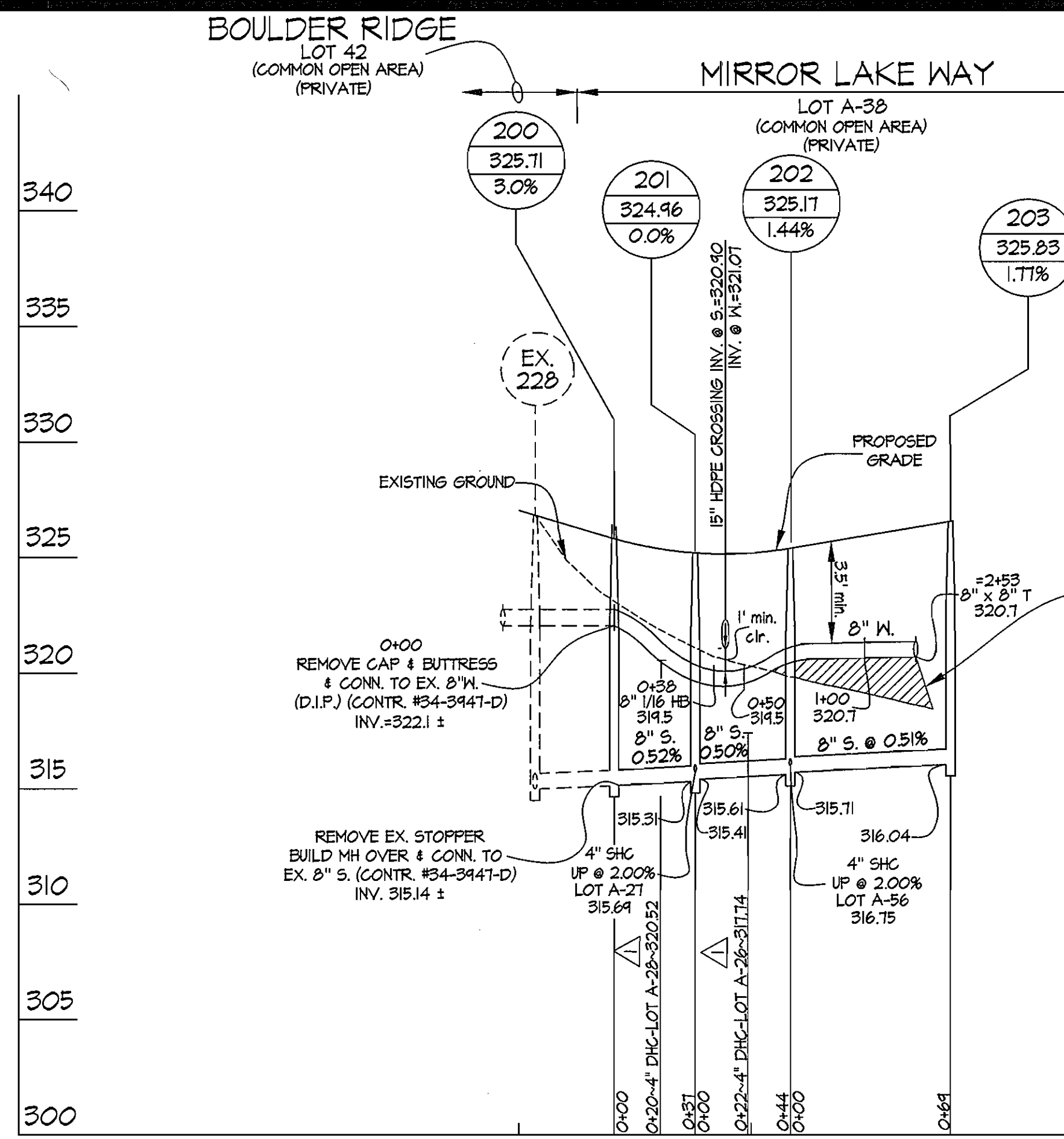
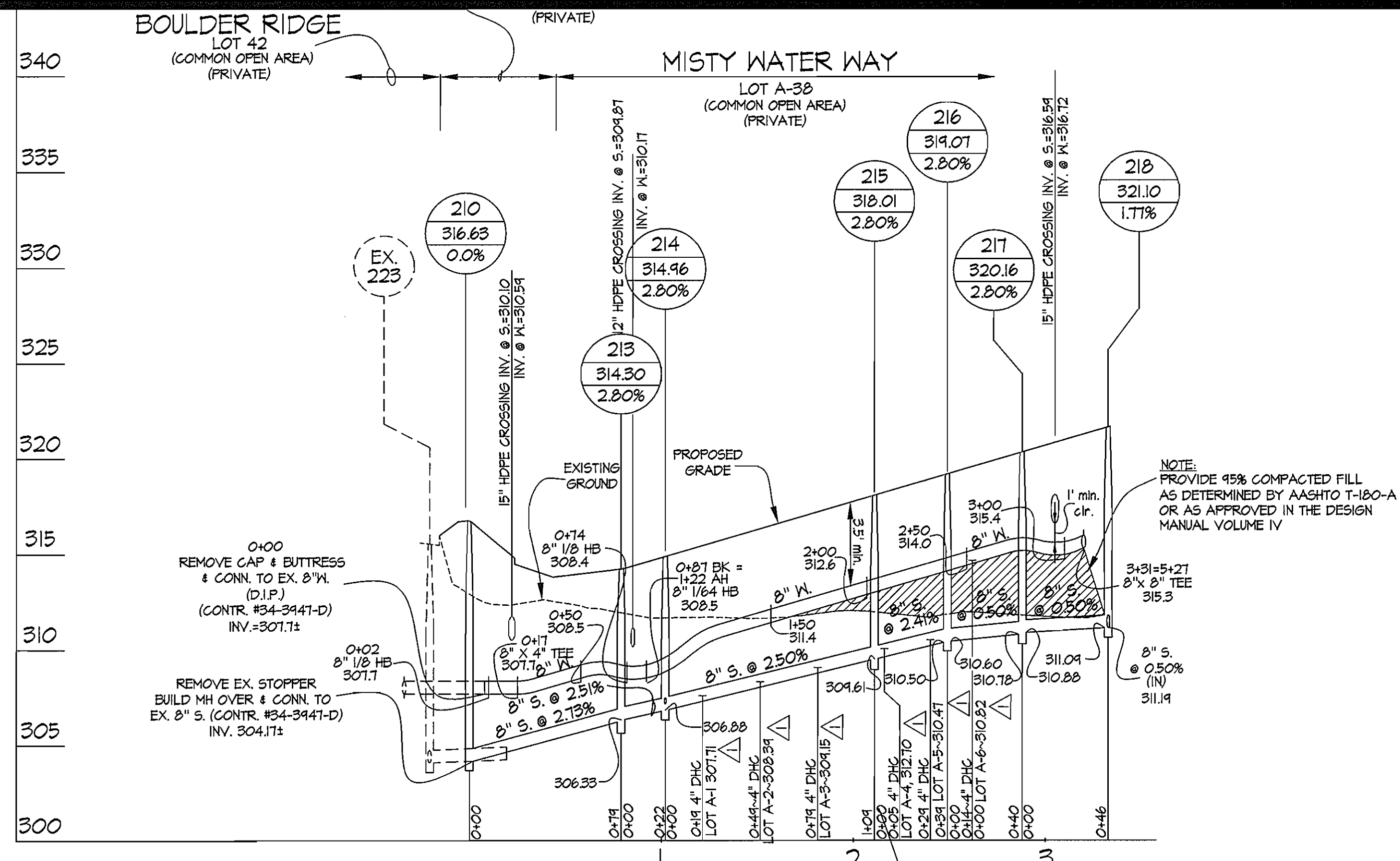


DES:	WSJ				
DRN:	WSJ				
CHK:	<i>WSJ</i>				
DATE:	JAN, 2005	BY	NO	REVISION	DATE

WATER and SEWER PROFILES
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL
600' SCALE MAP NO. 47 BLOCK NO. 9/10

STONE LAKE
LOTS A-1 THRU A-6, A-26 THRU A-28 & A-37 THRU A-66
LOTS D-1 THRU D-14 & LOT 122
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 6
CONTRACT No. 34-4184-D

SCALE AS SHOWN
SHEET 3 OF 3



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 14931 Expiration Date May 21, 2010.

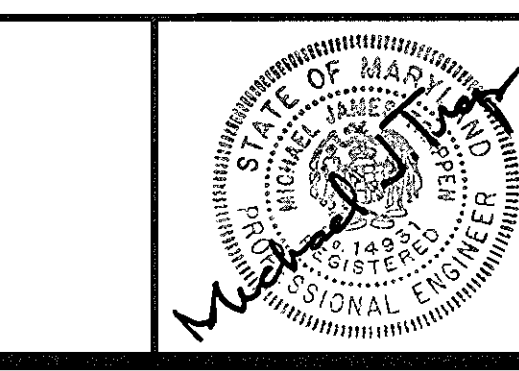
NOTE: THIS REPLACEMENT SHEET SUPERCEDES THE PROFILES SHEET DATED JAN., 2005

GLW FILE #99140 99140WS3.dwg

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
S. H. Lee
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
S. H. Lee
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLW GUTSCHICK LITTLE & WEBER, P.A.
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3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALR: 410-380-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES:	WJ				
DRN:	WJ				
CHK:					
DATE:	May 2008	MJT	△	REVISE SHC ELEVATIONS.	8/25/05
		BY	NO	REVISION	

WATER and SEWER
PROFILES
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL
600' SCALE MAP NO. 47 BLOCK NO. 9/0

STONE LAKE
LOTS A-1 THRU A-6, A-26 THRU A-28 & A-37 THRU A-66
LOTS D-1 THRU D-14 & LOT 122
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT NO. 6
CONTRACT No. 34-4184-D

SCALE AS SHOWN
SHEET 3 OF 3

LOT FRONTAGE TABLE

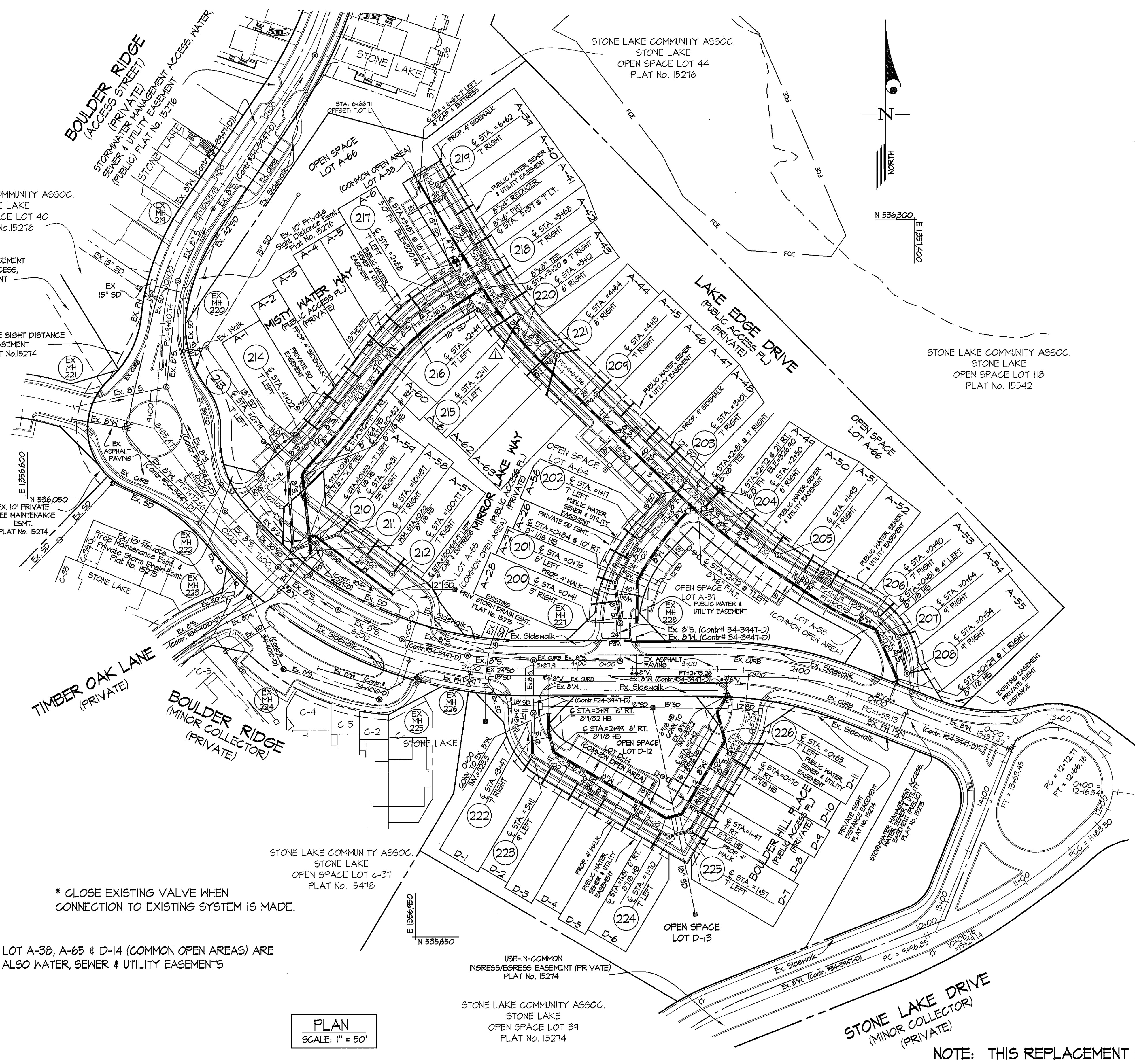
LOT No.	DISTANCE (feet)
A-1	24.51
A-2	30.14
A-3	30.20
A-4	30.08
A-5	29.03
A-6	40.29
A-26	28.18
A-27	28.18
A-28	35.47
A-34	44.11
A-40	32.12
A-41	32.12
A-42	32.11
A-43	40.03
A-44	40.00
A-45	32.00
A-46	32.00
A-47	32.00
A-48	40.00
A-49	40.01
A-50	32.04
A-51	32.15
A-52	40.48
A-53	32.45
A-54	32.42
A-55	45.81
A-56	31.11
A-57	40.18
A-58	28.01
A-59	40.04
A-60	33.51
A-61	28.01
A-62	28.01
A-63	40.00
D-1	44.11
D-2	28.01
D-3	28.00
D-4	28.00
D-5	28.00
D-6	28.00
D-7	21.74
D-8	28.00
D-9	28.00
D-10	28.00
D-11	41.93

CRIMPING RADIUS TABULATION(LAKE EDGE DRIVE)

BEGIN C STATION	END C STATION	CRIMPING RADIUS
0+55	1+23	286'
1+38	2+11	651'
4+36	5+30	361'

CRIMPING RADIUS TABULATION(MISTY WATER WAY)

BEGIN C STATION	END C STATION	CRIMPING RADIUS
0+46	1+30	354'
1+25	2+25	286'



MINIMUM CELLAR ELEVATIONS		INV. @ R/W ELEV.
LOT NO.	ELEV.	
A-1	314.30	308.14
A-2	315.42	308.75
A-3	316.21	309.40
A-4	317.05	310.13
A-5	318.04	311.10
A-6	318.36	311.25
A-26	324.84	318.11
A-27	319.14	315.94
A-28	324.96	320.98
A-34	315.50	312.41
A-40	314.25	315.26
A-41	314.81	315.87
A-42	320.35	316.36
A-43	320.10	316.46
A-44	322.25	318.55
A-45	320.75	317.62
A-46	323.45	317.55
A-47	323.48	319.01
A-48	324.33	320.34
A-49	326.07	322.08
A-50	326.64	322.83
A-51	327.35	323.11
A-52	327.54	323.45
A-53	328.52	319.58
A-54	323.12	320.11
A-55	323.77	320.71
A-56	325.36	317.21
A-57	319.14	316.31
A-58	318.35	314.84
A-59	316.12	313.14
A-60	321.21	314.78
A-61	321.66	314.78
A-62	322.13	315.65
A-63	322.61	316.05
D-1	323.80	320.50
D-2	327.86	323.82
D-3	328.11	324.61
D-4	324.01	325.57
D-5	324.61	326.14
D-6	324.74	326.37
D-7	322.84	321.75
D-8	330.03	326.57
D-9	324.74	326.37
D-10	324.43	325.97
D-11	326.60	323.42

* CLOSE EXISTING VALVE WHEN CONNECTION TO EXISTING SYSTEM IS MADE.

NOTE: LOT A-38, A-65 & D-14 (COMMON OPEN AREAS) ARE ALSO WATER, SEWER & UTILITY EASEMENTS

PLAN
SCALE: 1" = 50'

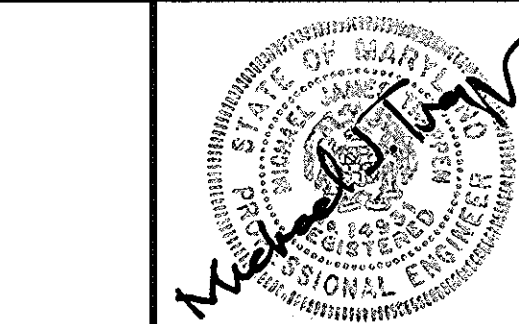
NOTE: THIS REPLACEMENT SHEET SUPERCEDES THE PLAN SHEET DATED JAN., 2005

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 14483, Expiration Date May 21, 2010.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
S. J. C. Carr
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
S. J. C. Carr
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-380-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: WBJ			
DRN: WJ/KIP			
CHK:			
DATE: May 2008	mjt	REVISED SHC ELEVATIONS.	7/28/05
BY: NO		REVISION	DATE

WATER and SEWER
PLAN
600' SCALE MAP NO. 47 BLOCK NO. 9/10

STONE LAKE
LOTS A-1 THRU A-6, A-26 THRU A-28, A-37 THRU A-66
LOTS D-1 THRU D-14 & LOT 122
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT NO. 6
CONTRACT No. 34-4184-D

SCALE AS SHOWN
SHEET 2 OF 3

GLW FILE #99140
99140WS2-RL0905.dwg