

SHEET INDEX

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7	TABLE OF WATER FITTINGS

WATER & SEWER EXTENSIONS LUTHERAN VILLAGE AT MILLER'S GRANT

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4561-D

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		MANUFACTURER/SUPPLIER
		QUANTITIES	TYPE	
8" WATER (DIP)	413 LF			
8" WATER (PVC)	377 LF	377 LF	C900-PVC	North American Pipe
6" WATER (PVC)	264 LF	264 LF	C900-PVC	North American Pipe
8" x 8" TEE	15	15	DIP	Tyler Union
8" x 6" TEE	1	1	DIP	Tyler Union
8" x 8" TS&V	1	1	S.S.	AFC
8" CAP & BUTTRISS	4	4	DIP	Tyler Union
6" CAP & BUTTRISS	0			
8" VALVE	14	14	GATE VALVE	AFC
6" VALVE	21	21	GATE VALVE	AFC
8" x 6" FHT	11	11	DIP	Tyler Union
FIRE HYDRANT	11	11	HYDRANT	AFC
1.5" COPPER WHC	999 LF	999 LF	SOFT V	Cambridge Loc
8" DIP WHC	90 LF	90 LF	DIP	Tyler Union
1/8" 8" VB	6	6	DIP	Tyler Union
1/32" 8" VB	33	33	DIP	Tyler Union
1/8" 8" HB	6	6	DIP	Tyler Union
1/16" 8" HB	4	4	DIP	Tyler Union
1/32" 8" HB	19	19	DIP	Tyler Union
SEWER				
PUBLIC SEWER MANHOLES	2	2	Pre-Cast	Contractors PC
8" PVC	20 LF	20 LF	C900-PVC	North American Pipe
CHECKBOX				
AS-BUILT DATE				
SURVEY AND DRAFTING DIVISION				

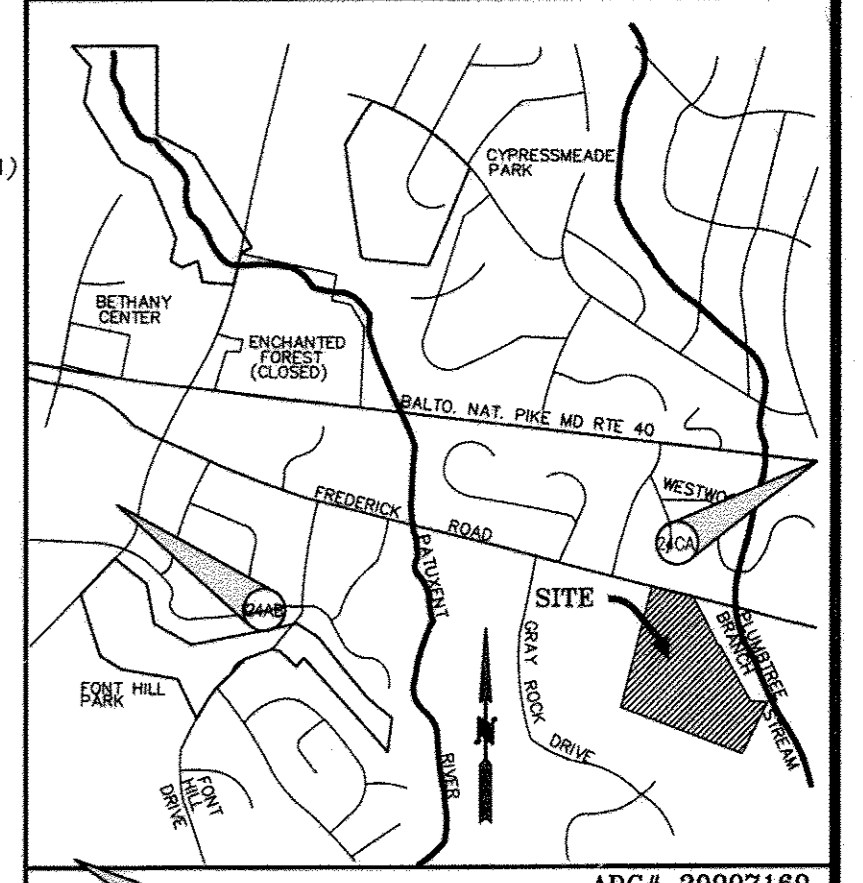
BENCHMARK

HORIZONTAL: MARYLAND NAD83 (ADJ 1991)
VERTICAL: NAVD83
GEODETIC SURVEY CONTROL: 24AB
NORTHING: 505836.919
EASTING: 1361345.55
ELEVATION: 383.214

GEODETIC SURVEY CONTROL: 24CA
NORTHING: 506264.80
EASTING: 1361634.29
ELEVATION: 398.336

GEODETIC SURVEY CONTROL: 24GC
NORTHING: 578860.853
EASTING: 1352202.69
ELEVATION: 438.911

DESCRIPTIONS:
STAMPED DISC SET ON 3" DEEP COLUMN OF CONCRETE

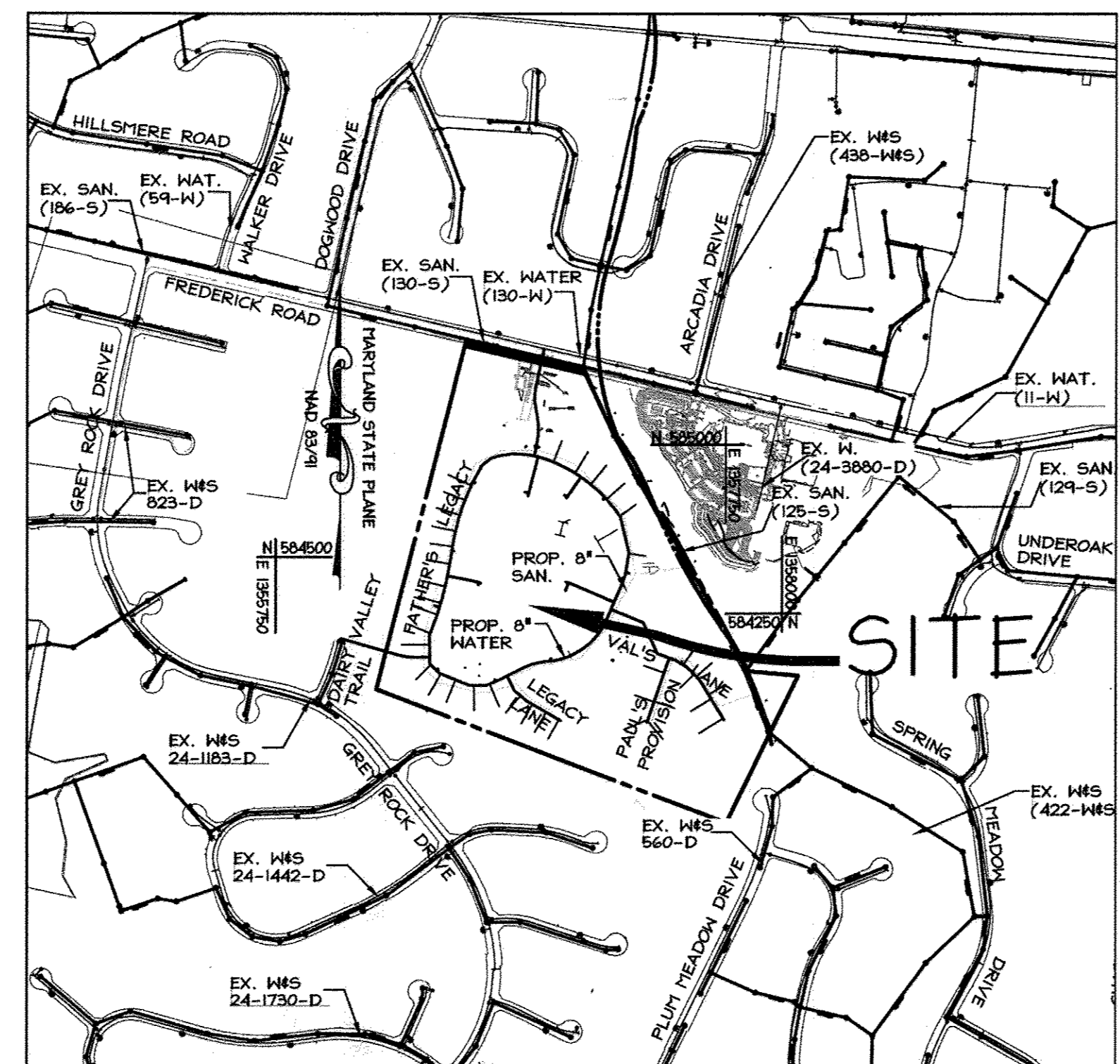
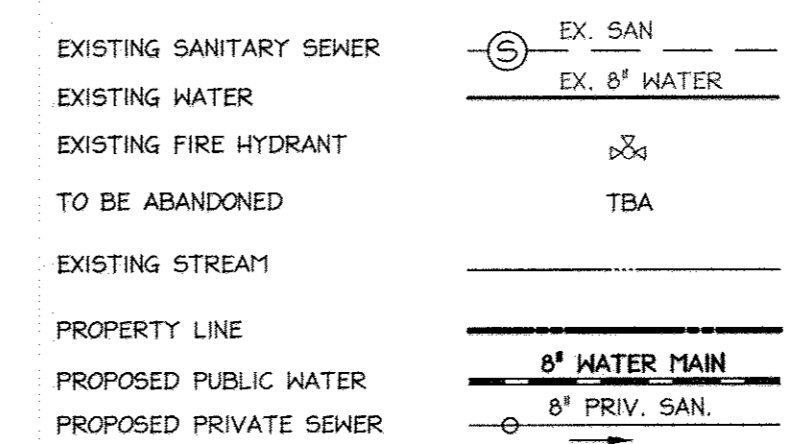


VICINITY MAP
SCALE 1"=2000'
HOWARD COUNTY MAP 11 GRID 9 J-K

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 SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON AUGUST 2005 BY christopher consultants, Inc.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS:
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 24AB, NO. 24CA, AND NO. 24GC. 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 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTRACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THAT 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 TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
 - FOR DETAILS NOT SHOWN ON THE DRAWING, 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 LOCATIONS OF THE TEST PITS. 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 FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
AT&T.....1-800-252-1133
BSE (CONSTRUCTION SERVICES).....1-800-743-0033/410-224-9210
BGE (EMERGENCY).....410-685-1400
BUREAU OF UTILITIES.....410-313-4900
COLONIAL PIPELINE CO.....410-795-1300
MISS UTILITY.....1-800-257-7777
STATE HIGHWAY ADMINISTRATION.....410-531-5533
VERIZON.....1-800-743-0033/410-224-9210
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE 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 THE 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) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114 (A) OF THE HOWARD COUNTY CODE.

LEGEND

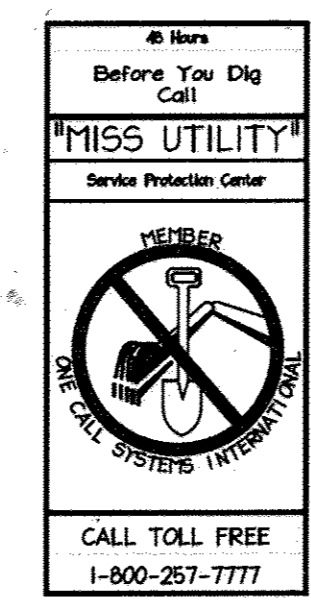


LOCATION MAP
SCALE: 1"=600'

WATER ZONE: 550
TEST GRADIENT: 700
COUNTY USE
WATER NO. 130-W
SEWER NO. 130-S
ZONE: PSC

SITE ANALYSIS

- TOTAL AREA OF SITE: 2,178,000 SQ. FT. OR 50.00 ± AC.
- ZONING: PSC
- EXISTING USE: AGRICULTURAL
- PROPOSED USE: AGE RESTRICTED ADULT HOUSING DEVELOPMENT
- BUILDING DATA: MAXIMUM BUILDING HEIGHT ALLOWED:
APARTMENTS: 60 FEET
OTHER PRINCIPAL STRUCTURES: 34 FEET
ACCESSORY STRUCTURES: 15 FEET
PARKING DATA: 588 SPACES
- IMPERVIOUS AREA: 16.74 AC
- DEED REFERENCE: 1220/854
- RELATED FILES FOR THIS SITE: SDP-08-075
- ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
- TAX MAP: 24, GRID: 9, PARCEL 1001
- AREA OF DISTURBANCE: 37.0 ACRES.



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-08-075

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

John R. Robertson 10/7/14
HOWARD SOIL CONSERVATION DISTRICT DATE

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

UNIT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	9111 FATHERS LEGACY	9' TO UNIT 1 SEWER	15.5' TO EDGE OF CURB
2	9115 FATHERS LEGACY	8' TO UNIT 2 SEWER	44' TO FH #5
3	9119 FATHERS LEGACY	15.5' TO UNIT 3 SEWER	17' TO EDGE OF CURB
4	9123 FATHERS LEGACY	17' TO UNIT 4 SEWER	17' TO SDM
5	9127 FATHERS LEGACY	11.5' TO UNIT 5 SEWER	13' TO EDGE OF CURB
6	9015 FATHERS LEGACY	47.5' TO FH #2	72' TO UNIT 6 SEWER
7	9017 FATHERS LEGACY	10.5' TO UNIT 7 SEWER	35' TO CORNER OF INLET
8	9021 FATHERS LEGACY	8.5' TO UNIT 8 SEWER	27' TO CORNER OF INLET
9	9025 FATHERS LEGACY	17' TO UNIT 9 SEWER	18.5' TO CORNER OF CURB
10	9027 FATHERS LEGACY	8' TO UNIT 10 SEWER	46.5' TO FH
11	9031 FATHERS LEGACY	20' TO UNIT 11 SEWER	18' TO EDGE OF CURB
12	9035 FATHERS LEGACY	17.5' TO UNIT 12 SEWER	2.5' TO SMH-21
13	9037 FATHERS LEGACY	21' TO UNIT 13 SEWER	21' TO FH
14	9041 FATHERS LEGACY	33' TO FH	26' TO UNIT 14 SEWER
15	9045 FATHERS LEGACY	14' TO SMH-20	21' TO UNIT 15 SEWER
16	9047 FATHERS LEGACY	27' TO UNIT 16 SEWER	45' TO EDGE OF CURB
17	9051 FATHERS LEGACY	20' TO UNIT 17 SEWER	15.5' TO SMH-19
1000 north	9000 FATHERS LEGACY		
1000 south	9050 FATHERS LEGACY		
1000 east	9100 FATHERS LEGACY		

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

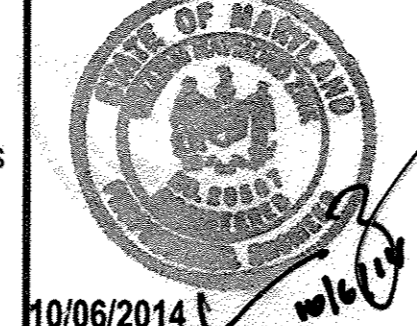
UNIT #	ADDRESS	LOCATION 1	LOCATION 2
1	9111 FATHERS LEGACY	9' TO UNIT 1 WATER	19' TO EDGE OF CURB
2	9115 FATHERS LEGACY	8' TO UNIT 2 WATER	48.5' TO FH #5
3	9119 FATHERS LEGACY	15.5' TO UNIT 3 WATER	13.5' TO EDGE OF CURB
4	9123 FATHERS LEGACY	14.5' TO SDM	17' TO UNIT 4 WATER
5	9127 FATHERS LEGACY	11.5' TO UNIT 5 WATER	16.5' TO EDGE OF CURB
6	9015 FATHERS LEGACY	46.5' TO FH #2	72' TO UNIT 6 WATER
7	9017 FATHERS LEGACY	10.5' TO EDGE OF CURB	10.5' TO UNIT 7 WATER
8	9021 FATHERS LEGACY	8.5' TO UNIT 8 WATER	13' TO EDGE OF CURB
9	9025 FATHERS LEGACY	17' TO UNIT 9 WATER	19' TO EDGE OF CURB
10	9027 FATHERS LEGACY	8' TO UNIT 10 WATER	44' TO FH
11	9031 FATHERS LEGACY	16' TO UNIT 11 WATER	18' TO EDGE OF CURB
12	9035 FATHERS LEGACY	17.5' TO UNIT 12 WATER	6' TO SMH-21
13	9037 FATHERS LEGACY	21' TO UNIT 13 WATER	41.5' TO FH
14	9041 FATHERS LEGACY	59' TO FH	26' TO UNIT 14 WATER
15	9045 FATHERS LEGACY	11' TO UNIT 15 WATER	23.5' TO SMH-20
16	9047 FATHERS LEGACY	27' TO UNIT 16 WATER	13.5' TO EDGE OF CURB
17	9051 FATHERS LEGACY	10.5' TO SMH-19	20' TO LOT 17 WHC

TYPE OF BUILDINGS: RESIDENTIAL
NO. OF UNITS: 38
DRAINAGE AREA: 50.00
TREATMENT PLANT: LITTLE PATUXENT
NUMBER OF W.H.C.: 38
NUMBER OF S.H.C.: 0

OWNER / DEVELOPER
LUTHERAN VILLAGE AT MILLER'S GRANT
C/O CARROLL LUTHERAN VILLAGE
CONTACT: ROY SHAWWAD, EXECUTIVE VICE PRESIDENT
300 SAINT LUKE CIRCLE
WESTMINSTER, MD 21158
(410) 848-0090

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Silvia C. Chen 10/14/14
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Oliver Colburn 10.8.14
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



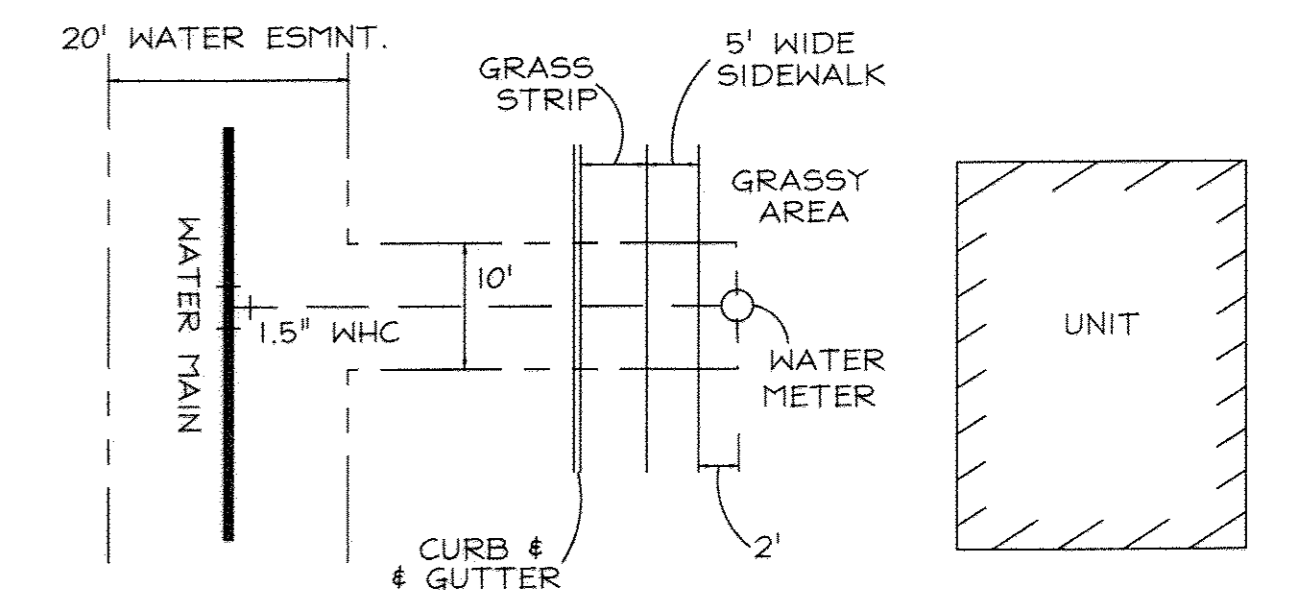
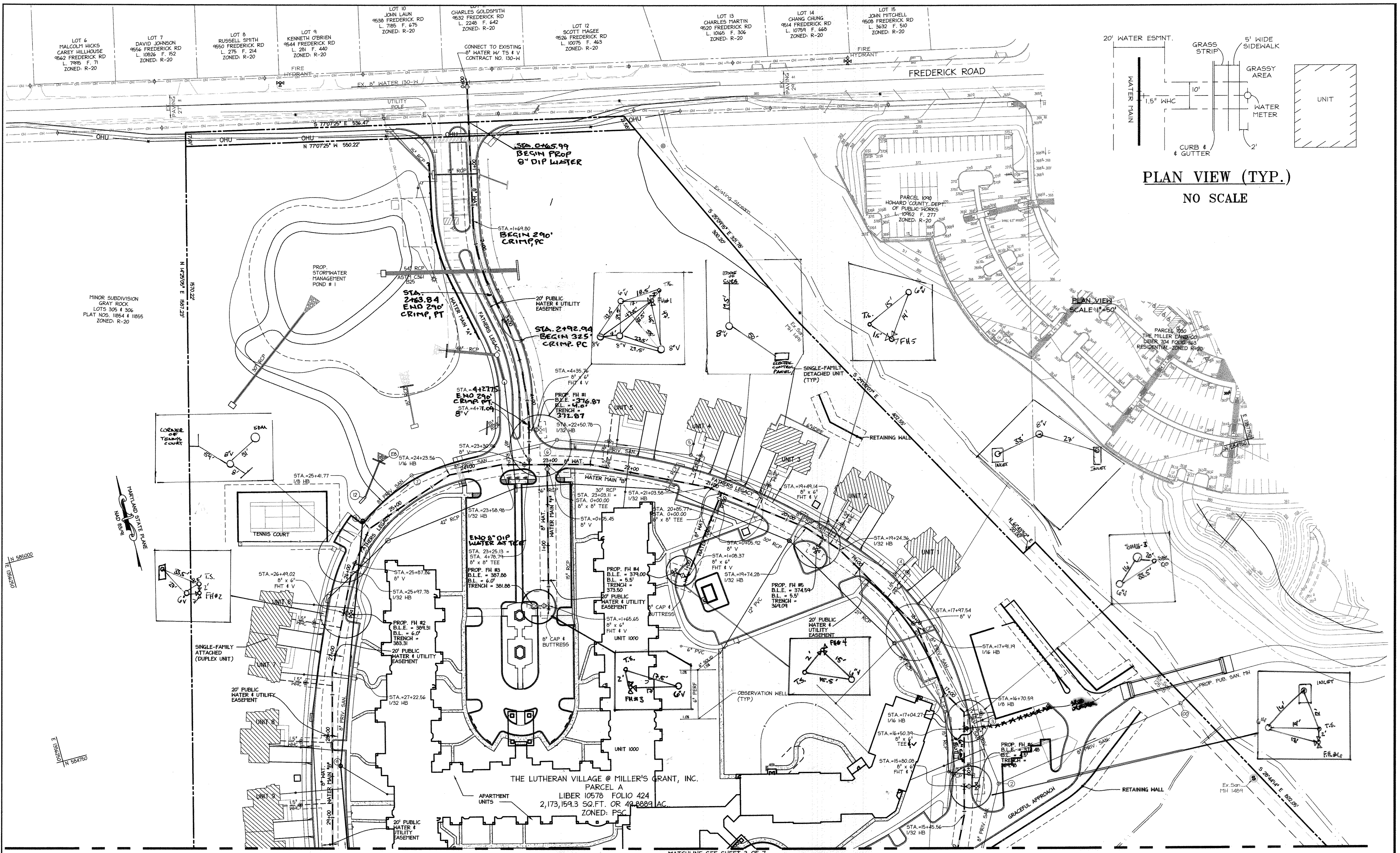
DES:	DAM	KMW	1.	REDLINE REVISION-CHANGE OF PIPE MATERIAL TO PVC	9-05-14
DRN:	DAM	EG	2.	REDLINE REVISION-CHANGE WATER	2-19
CHK:	ENJ	EG	3.	MAIN H PIPE MATERIAL TO DIP	15
DATE:	APR. 2011	KEI	4.	AS-BUILT REVISION: ADD 8" VALVE	6/20/11
BY:	NO.			REVISION	DATE

COVER SHEET

800 SCALE MAP NO. 24 BLOCK NO. 9
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

WATER & SEWER EXTENSIONS
LUTHERAN VILLAGE
AT MILLER'S GRANT
CONTRACT NO. 24-4561-D

SCALE
AS SHOWN
SHEET
1 OF 7



PLAN VIEW (TYP.)
NO SCALE

PLAN VIEW
SCALE 1/4\"/>

THE LUTHERAN VILLAGE @ MILLER'S GRANT, INC.
PARCEL A
LIBER 10578 FOLIO 424
2,173,159.3 SQ.FT. OR 49.8889 AC.
ZONED: PSC

MATCHLINE SEE SHEET 3 OF 7

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John C. Com
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Chad Edwards
CHIEF, DEVELOPMENT ENGINEERING DIVISION

christopher consultants
engineering - surveying - land planning
christopher consultants, inc.
7172 columbia gateway drive suite 1001 columbia, md 21046-2880
410.326.2000 www.cci.com



DES:	DAM	KMW	1.	REDLINE REVISION-CHANGE OF PIPE MATERIAL TO PVC	9-05-14
DRN:	DAM	EG	2.	REDLINE REVISION- CHANGE WATER MAIN PIPE MATERIAL TO DIP	3-9-
CHK:	ENU	EG	3.	As-BUILTS	1/20/16
DATE:	APR 2011	BY	NO.	REVISION	DATE

**WATER & SEWER
EXTENSIONS PLAN**

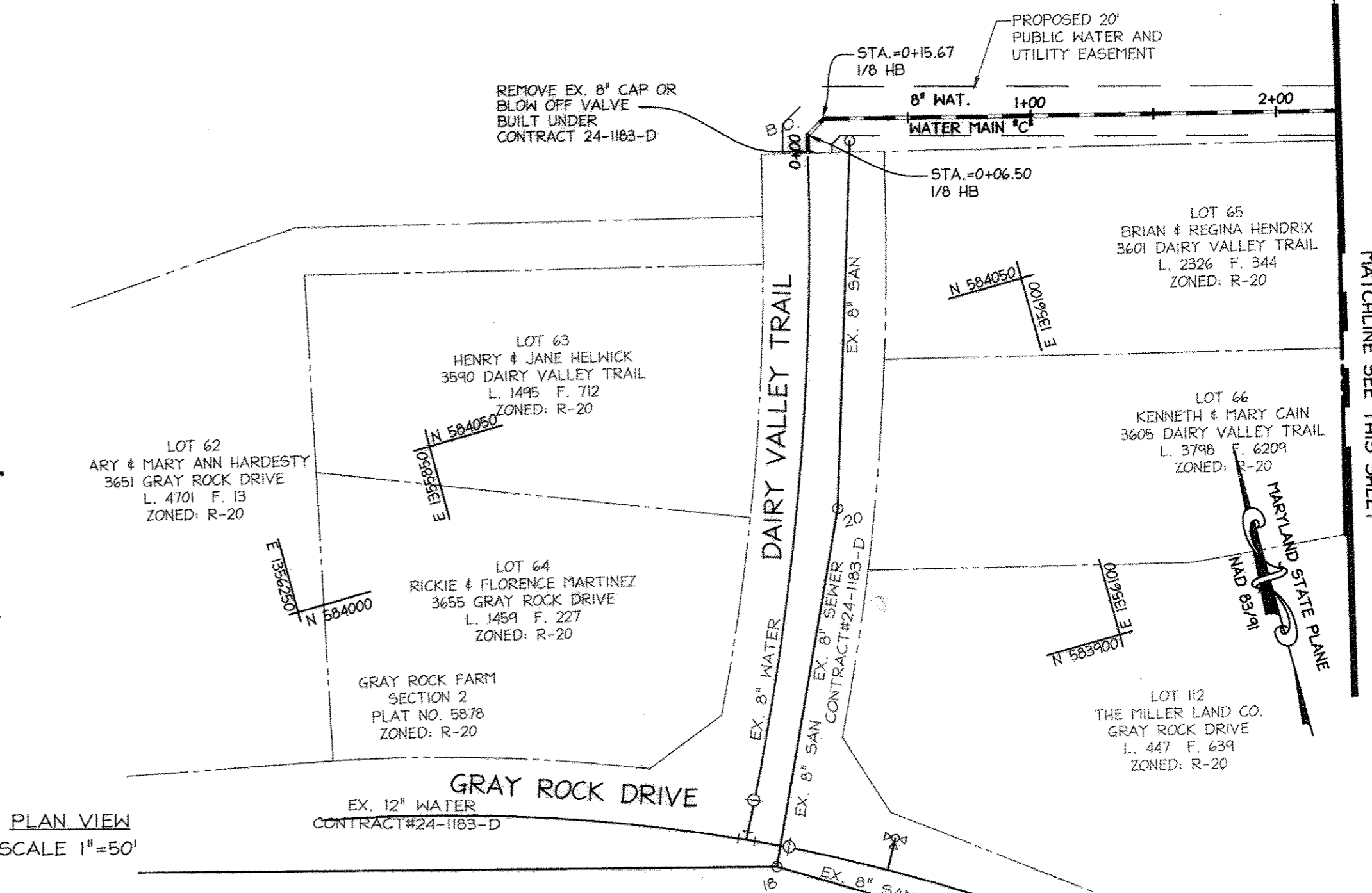
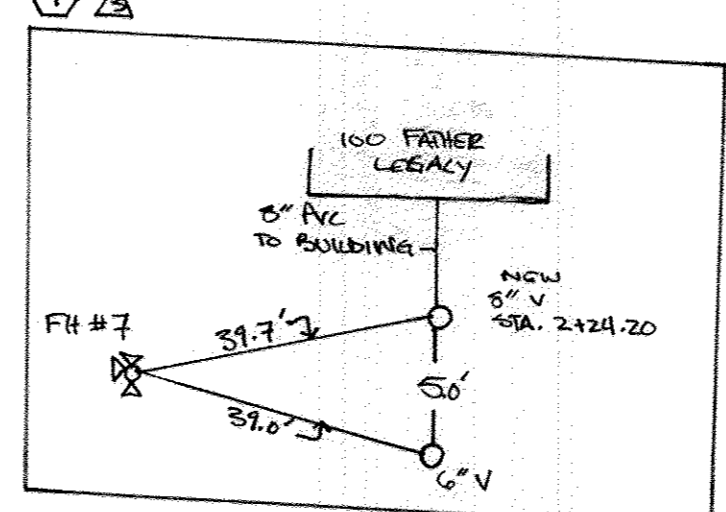
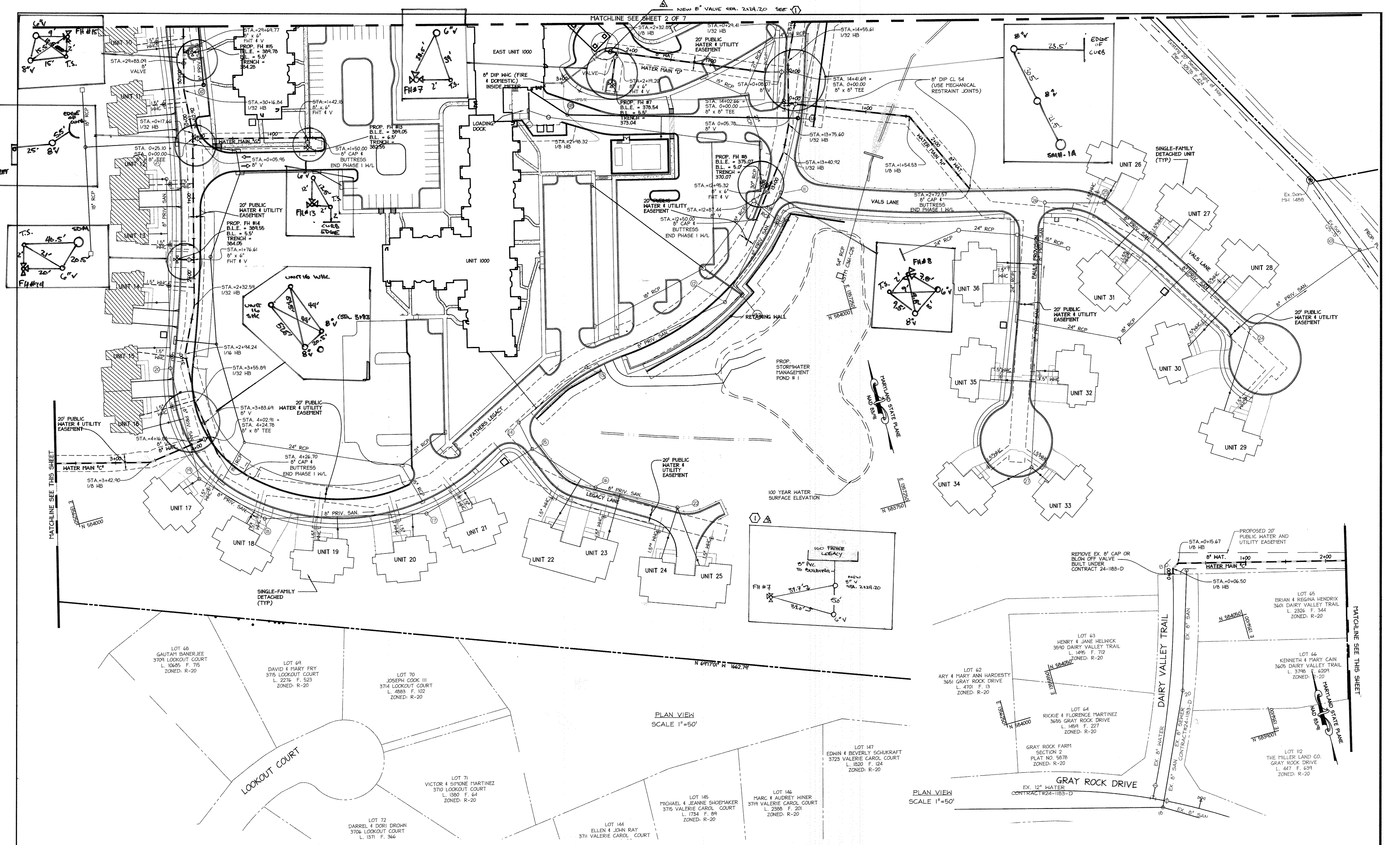
600 SCALE MAP NO. 24 BLOCK NO. 9

WATER & SEWER EXTENSIONS
**LUTHERAN VILLAGE
AT MILLER'S GRANT**
CONTRACT NO. 24-4561-D

TAX MAP 24 GRID 9, PARCEL 1001
2nd ELECTION DISTRICT

ZONE: PSC
HOWARD COUNTY, MARYLAND

SCALE
1"=50'
SHEET
2 OF 7



PLAN VIEW
SCALE 1"=50'

PLAN VIEW
SCALE 1"=50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Steve C. Green
CHIEF, BUREAU OF UTILITIES

10-17-14
DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Paul Edwards
CHIEF, DEVELOPMENT ENGINEERING DIVISION

10-17-14
DATE



DES:	DAM	KMW	1.	REDLINE REVISION-CHANGE OF PIPE MATERIAL TO PVC	9-05-14
DRN:	DAM	KCF	2.	AS-BUILT	6-20-16
CHK:	ENJ	KCF	3.	AS-BUILT REVISION; ADD 8\"/>	
DATE:	APR 2011				
BY:	NO.			REVISION	DATE

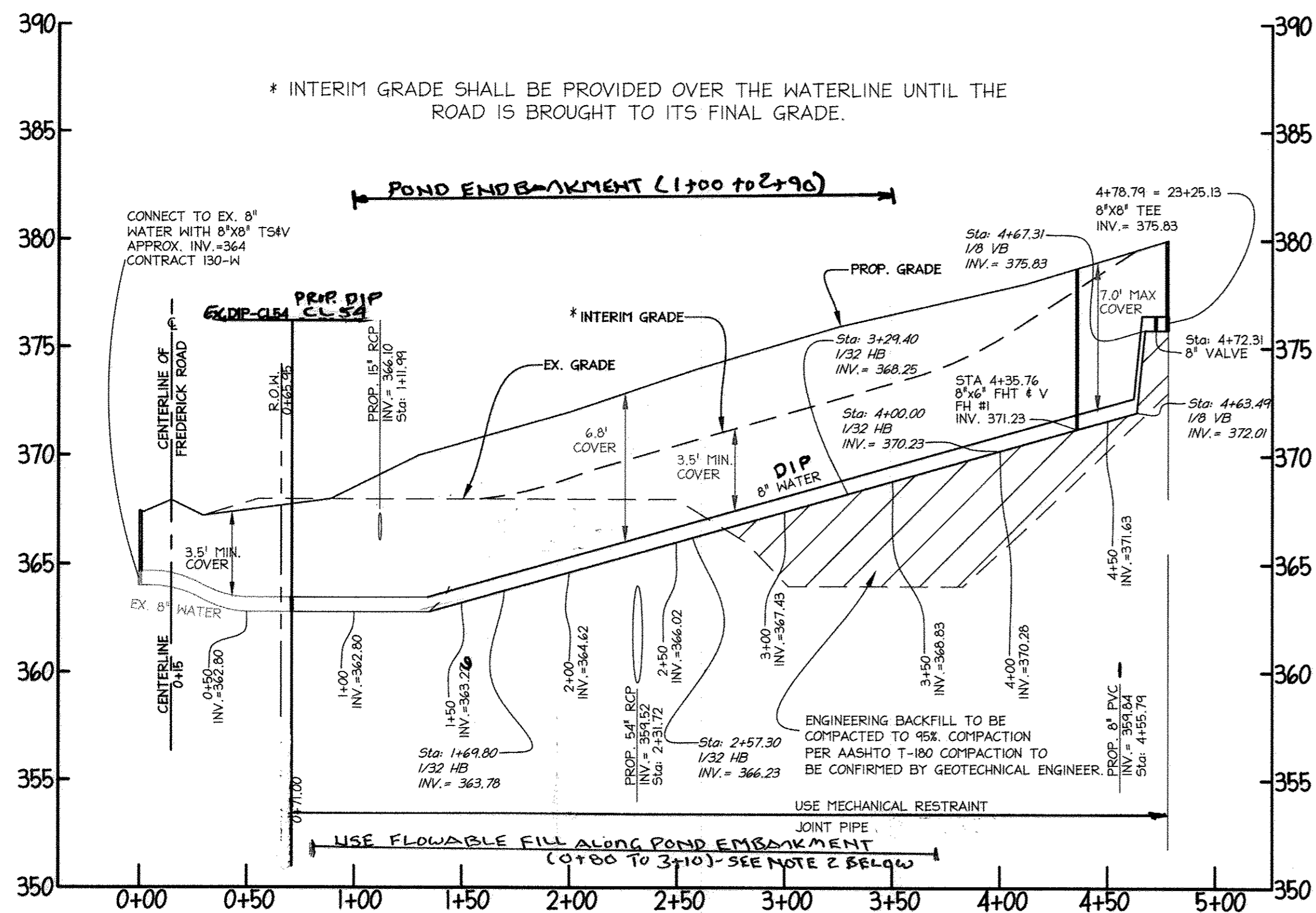
WATER & SEWER
EXTENSIONS PLAN

600 SCALE MAP NO. 24 BLOCK NO. 9

WATER & SEWER EXTENSIONS
**LUTHERAN VILLAGE
AT MILLER'S GRANT**
CONTRACT NO. 24-4561-D

TAX MAP 24 GRID 9, PARCEL 1001 ZONE: PSC
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

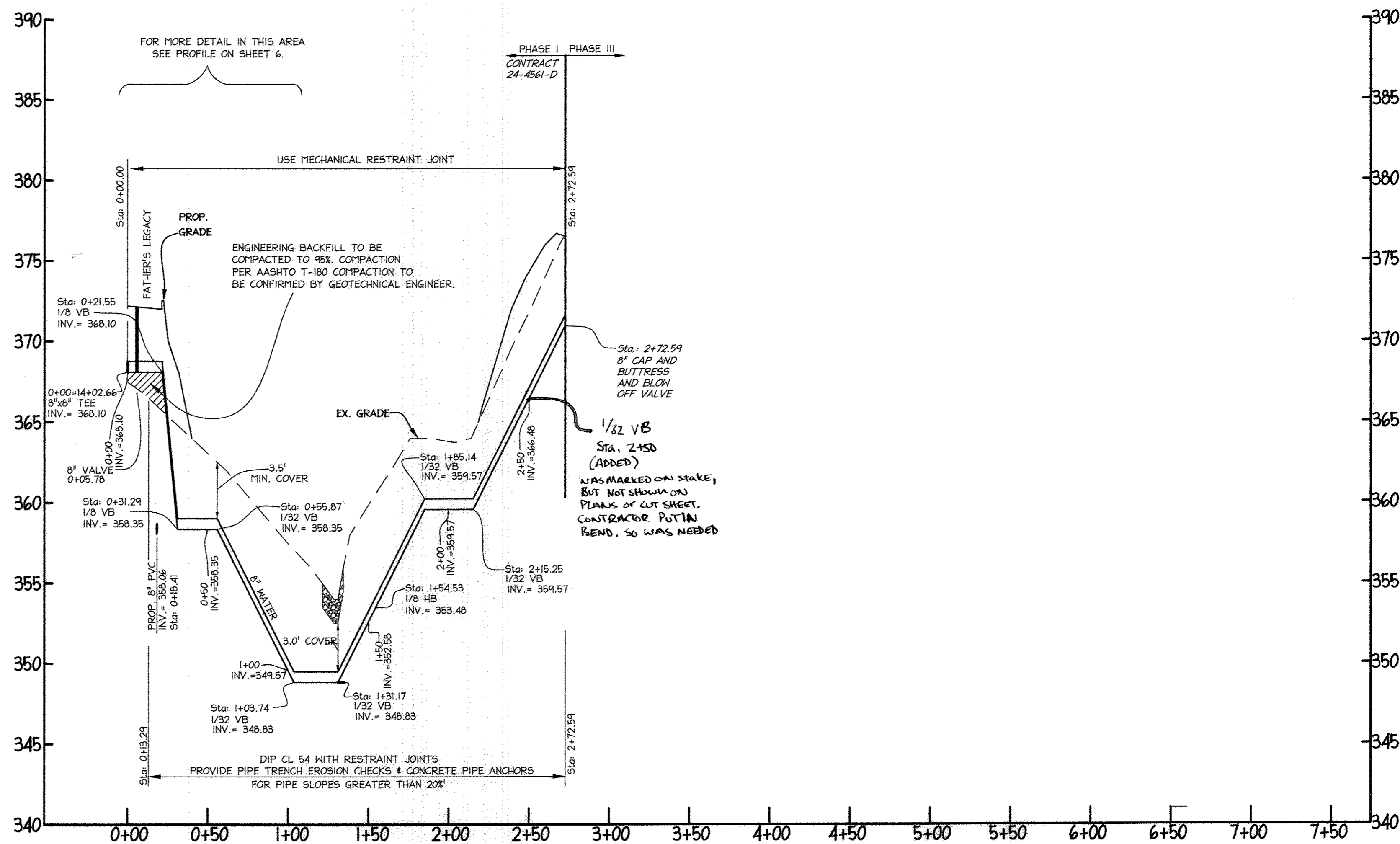
SCALE
1"=50'
SHEET
3 OF 7



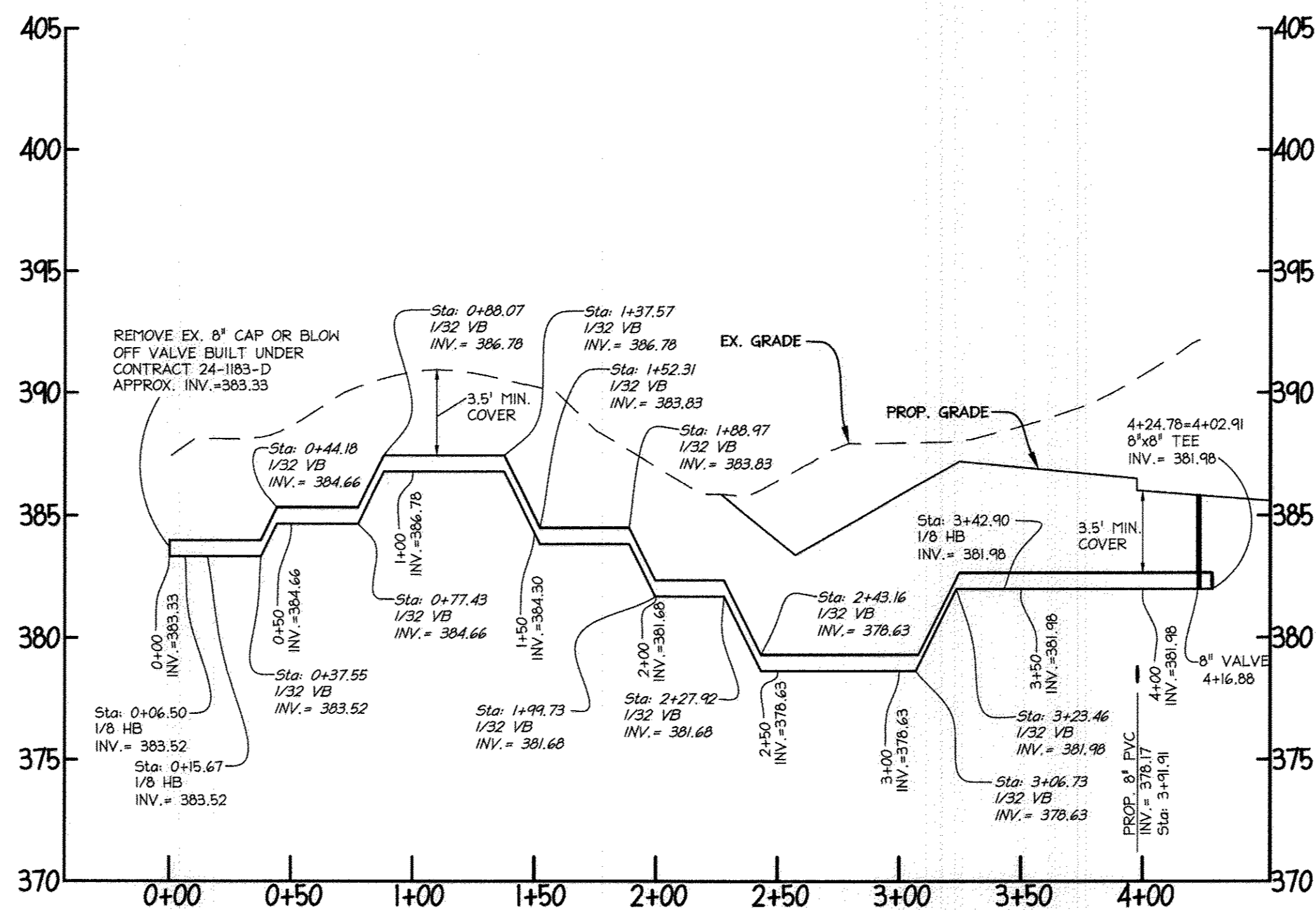
PROPOSED PUBLIC 8" WATER PROFILE @ FATHER'S LEGACY (WATER MAIN "A")
SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOTE: REMOVE EXISTING CAP/BUTTRESS AT STATION 0+71.00 AND EXTEND 8" WATERLINE. IF NECESSARY, CLOSE EXISTING VALVE IN FREDERICK ROAD TO EXTEND 8" WATERLINE.

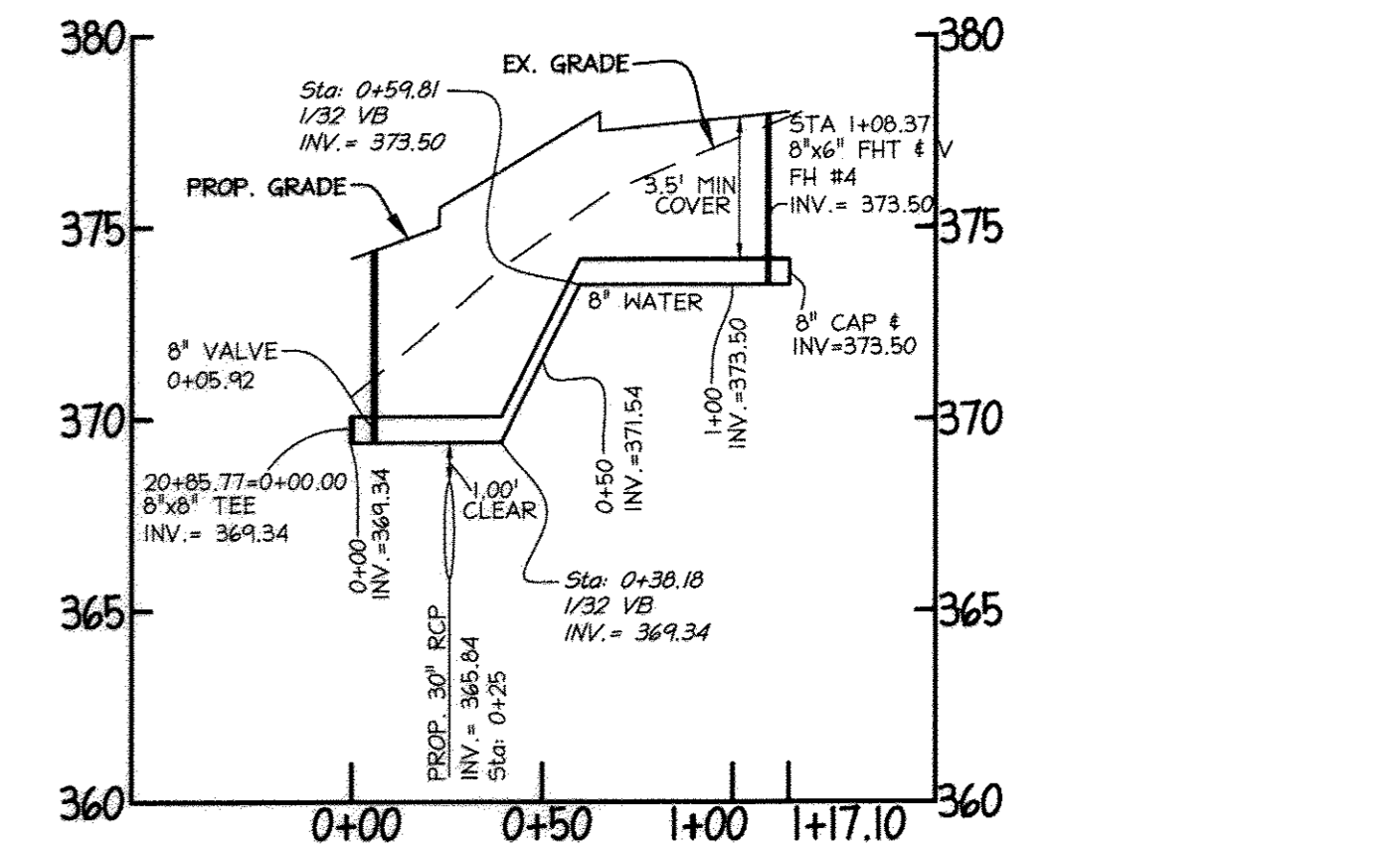
2. FLOWABLE FILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 314. PER THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME II, STORMWATER DESIGN APPENDICES, THE FLOWABLE FILL SHALL BE PLACED A MINIMUM 6" UNDER, OVER, AND ON ALL SIDES OF THE PIPE. IT ONLY NEEDS TO EXTEND UP TO THE SPRING LINE FOR RIGID CONDUITS.
3. NO FLY ASH SHALL BE ALLOWED IN THE FLOWABLE FILL MIXTURE.



PROPOSED PUBLIC 8" WATER PROFILE @ VALS LANE (WATER MAIN "H")
SCALE HORIZ: 1"=50'
VERT: 1"=5'



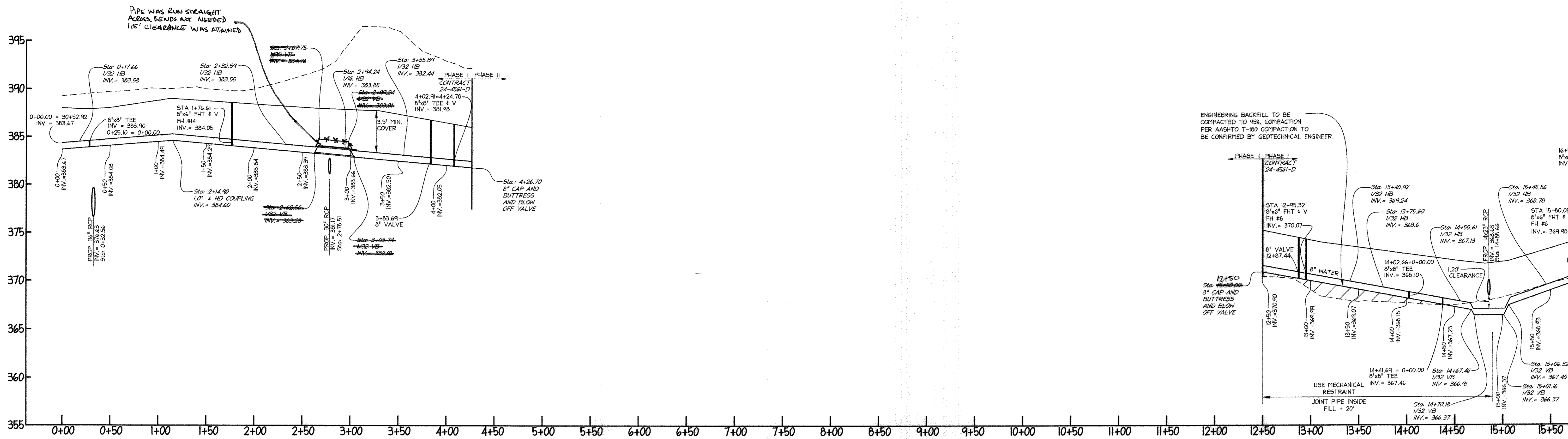
PROPOSED PUBLIC 8" WATER PROFILE TO DAIRY VALLEY TRAIL (WATER MAIN "C")
SCALE HORIZ: 1"=50'
VERT: 1"=5'



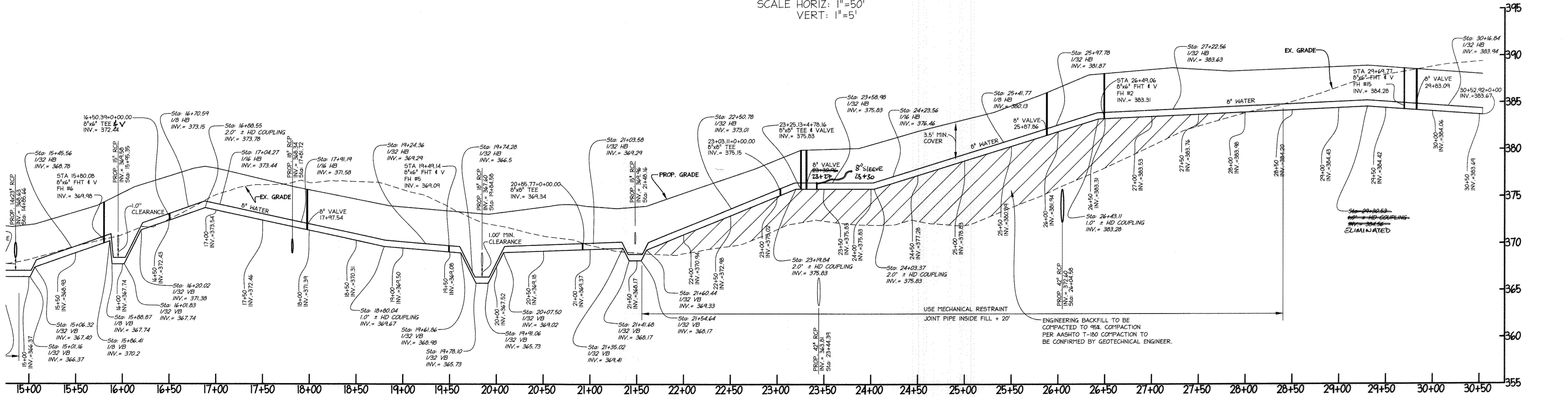
PROPOSED PUBLIC 8" WATER PROFILE @ FH #4 (WATER MAIN "E")
SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOTE:
1.) ALL WATER MAIN PIPE TO BE C-900 PVC UNLESS OTHERWISE NOTED.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	 christopher consultants engineering - surveying - land planning christopher consultants, inc. 1172 edwards greenway drive suite 100 columbia, md 21048-2000 410.272.8000 • fax 410.272.8148 • www.christopherconsultants.com	DES: DAM	KMW 1.	REDLINE REVISION-CHANGE OF PIPE MATERIAL TO PVC	9-05-14	WATER PROFILES	WATER & SEWER EXTENSIONS LUTHERAN VILLAGE AT MILLER'S GRANT CONTRACT NO. 24-4561-D	SCALE 1" = 50'
 CHIEF, BUREAU OF UTILITIES	 CHIEF, DEVELOPMENT ENGINEERING DIVISION		DATE: APR, 2011	DRN: DAM	EG 2	REDLINE REVISION CHANGE WATER MAIN H MATERIAL/PIPE TO DIP		3-11-15	TAX MAP 24 GRID 9, PARCEL 1001
 DATE: M.G.		DATE: APR, 2011	CHK: ENJ	EG 3.	AS-BUILTS	6/26/16		2nd ELECTION DISTRICT	ZONE: PSC HOWARD COUNTY, MARYLAND
		DATE: APR, 2011	DATE: APR, 2011	BY NO.	REVISION	DATE		600 SCALE MAP NO. 24 BLOCK NO. 9	



PROPOSED PUBLIC 8" WATER PROFILE @ FATHER'S LEGACY (WATER MAIN "B")
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'



PROPOSED PUBLIC 8" WATER PROFILE @ FATHER'S LEGACY (WATER MAIN "B")
 SCALE HORIZ: 1"=50'
 VERT: 1"=5'

NOTE:
 1.) ALL WATER MAIN PIPE TO BE C-900 PVC UNLESS OTHERWISE NOTED.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 Date: 10.8.14

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 Date: 10.8.14

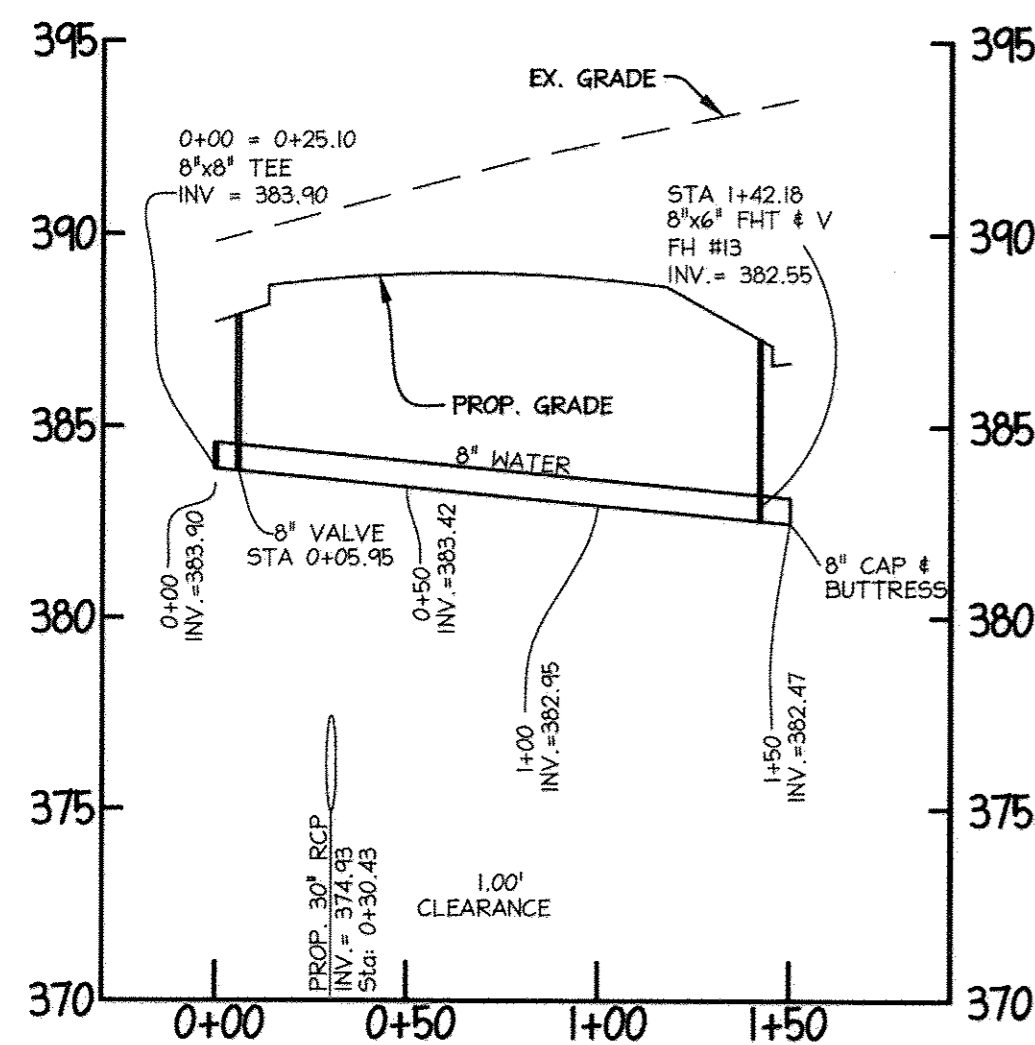


DES:	DAM	KMW	1.	REDLINE REVISION-CHANGE OF PIPE MATERIAL TO PVC	9-05-14
DRN:	DAM				
CHK:	ENJ				
DATE:	APR, 2011	BY:	NO.	REVISION	DATE
			3	A6-BULLITS	10/8/14

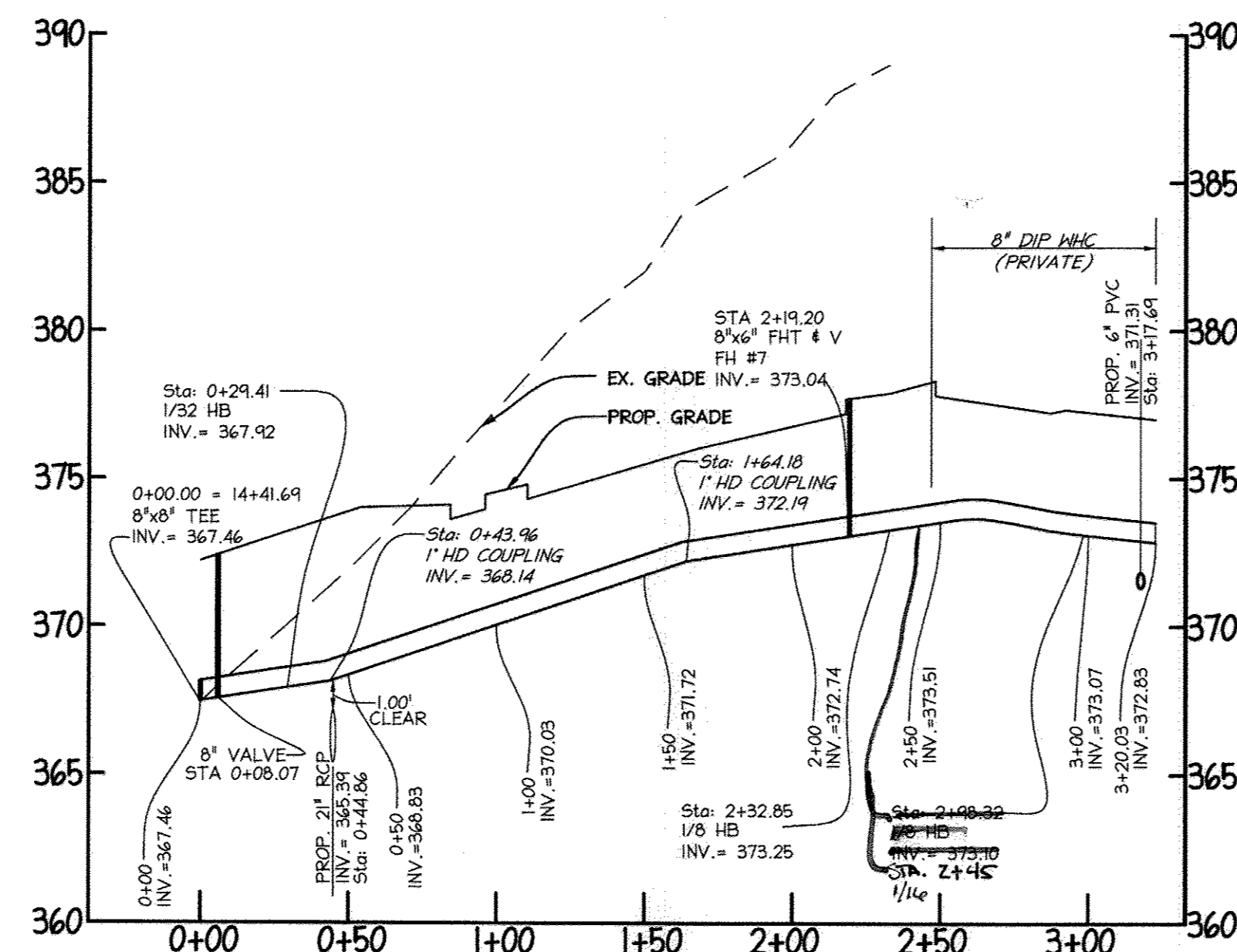
600 SCALE MAP NO.	24	BLOCK NO.	9
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WATER & SEWER EXTENSIONS
LUTHERAN VILLAGE
 AT MILLER'S GRANT
 CONTRACT NO. 24-4561-D
 TAX MAP 24 GRID 9, PARCEL 1001
 2nd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 ZONE: PSC

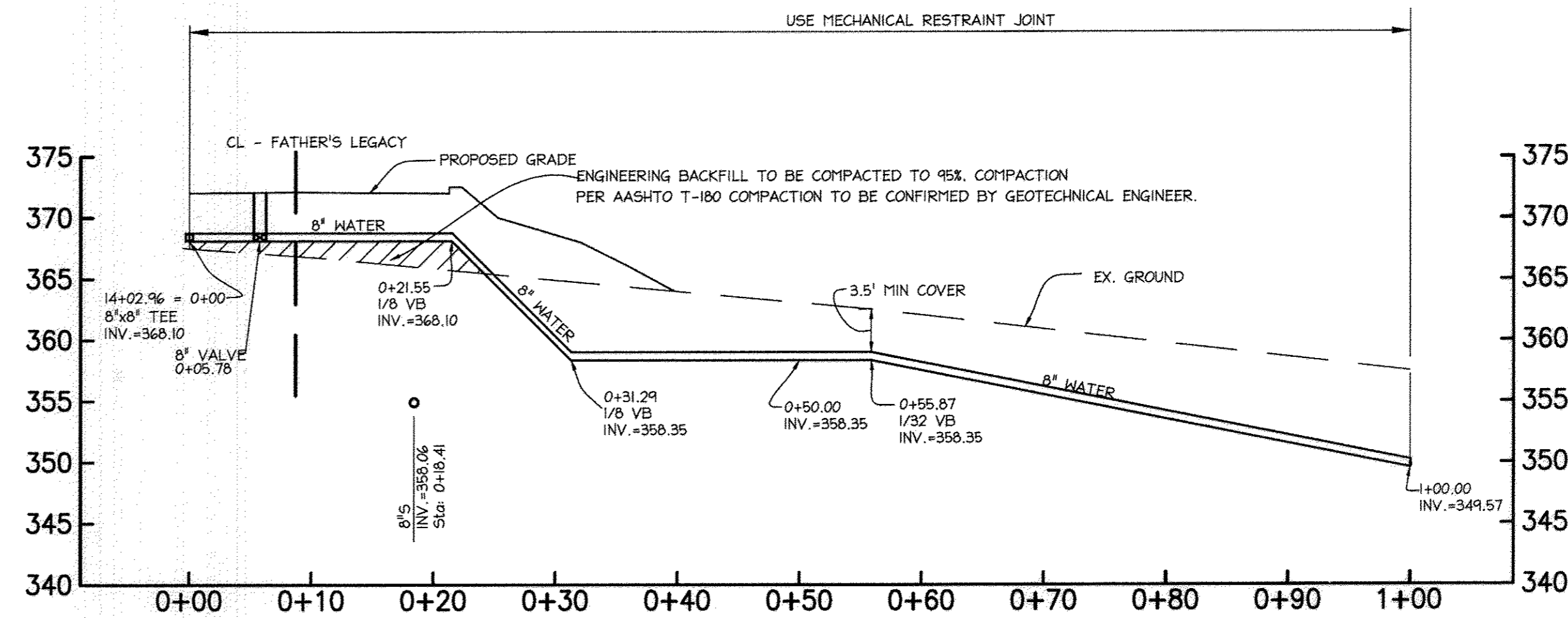
SCALE
 1" = 50'
 SHEET
 5 OF 7



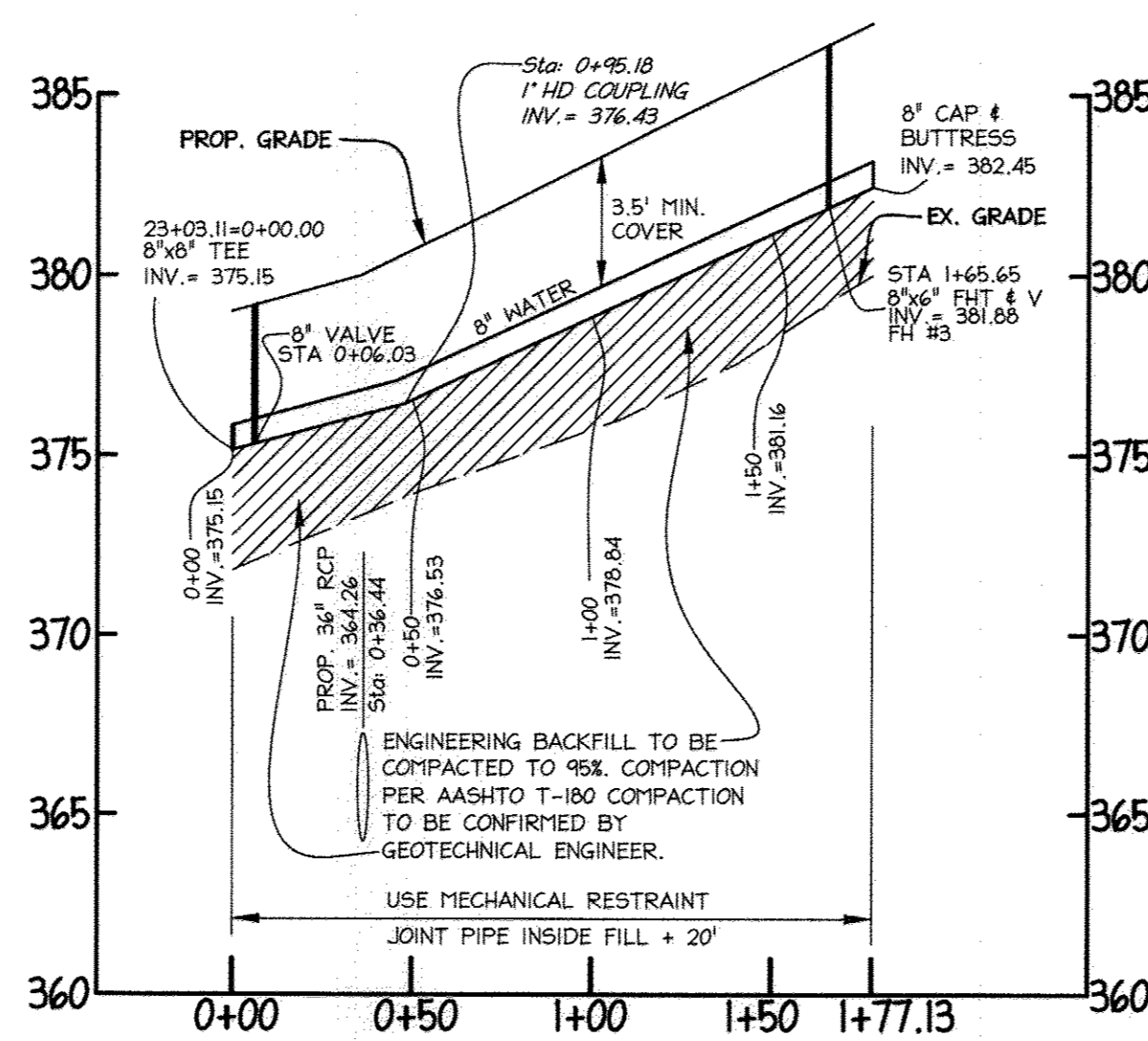
PROPOSED PUBLIC 8" WATER PROFILE @ FH #13 (WATER MAIN "G")
SCALE HORIZ: 1"=50'
VERT: 1"=5'



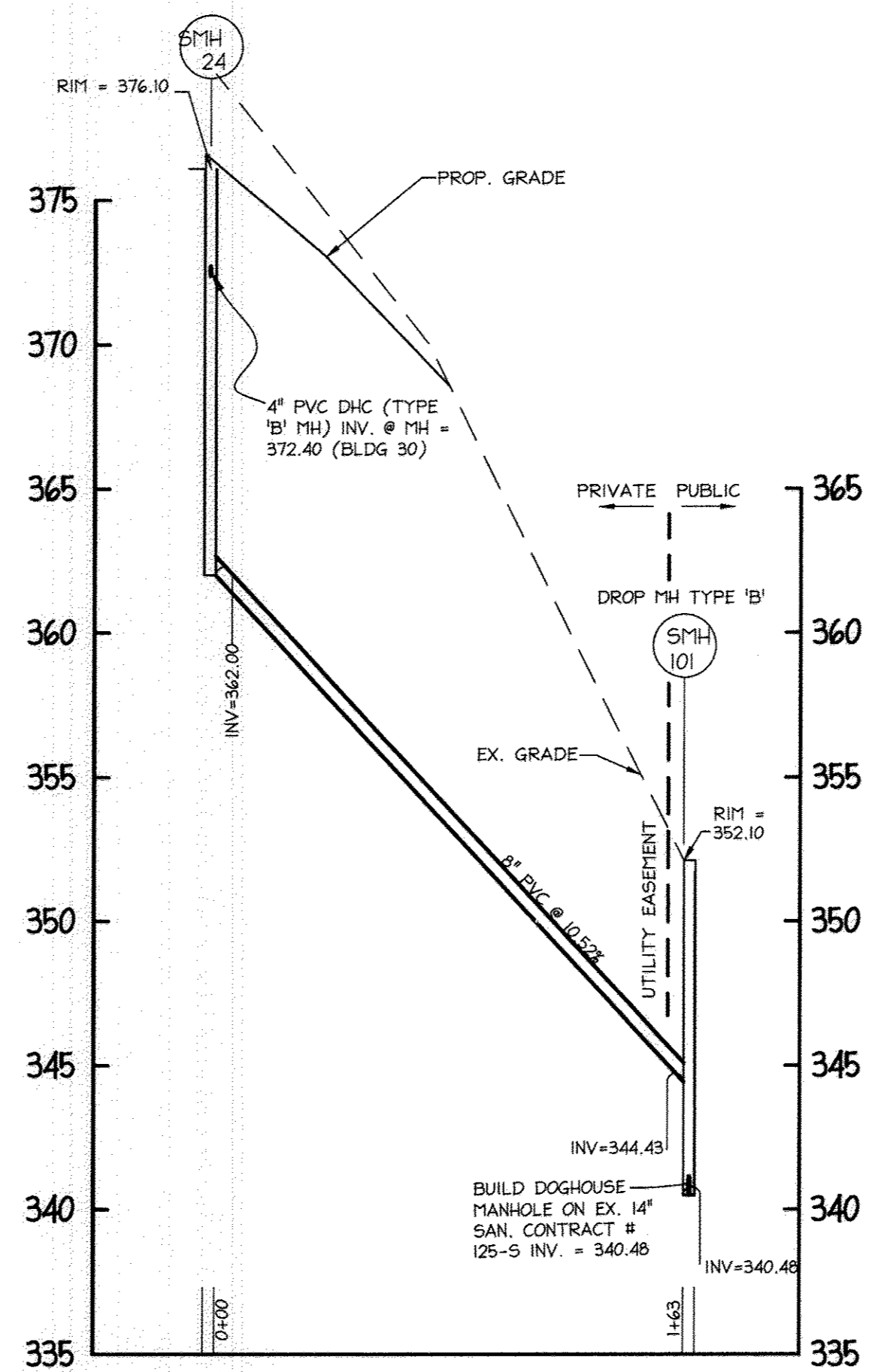
PROPOSED PUBLIC 8" WATER PROFILE @ FH #7 (WATER MAIN "D")
SCALE HORIZ: 1"=50'
VERT: 1"=5'



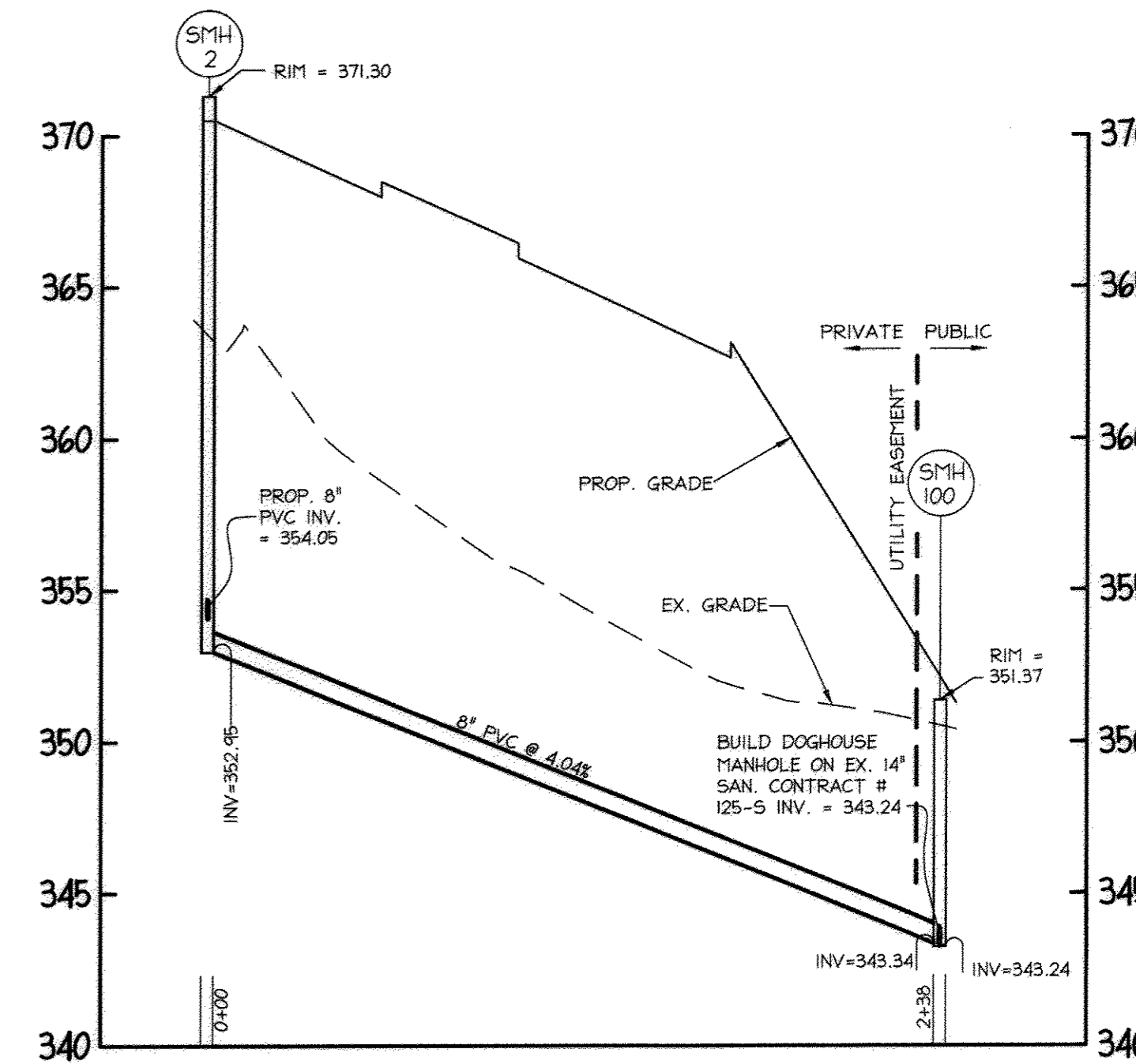
PROPOSED PUBLIC 8" WATER PROFILE @ VALS LANE (WATER MAIN "H")
SCALE HORIZ: 1"=10'
VERT: 1"=10'
REFER TO SHEET 4 FOR MORE DETAIL BEYOND STATION 1+00



PROPOSED PUBLIC 8" WATER PROFILE @ FH #3 (WATER MAIN "F")
SCALE HORIZ: 1"=50'
VERT: 1"=5'



PROPOSED PUBLIC 8" SANITARY PROFILE @ SAN MH#23
SCALE HORIZ: 1"=50'
VERT: 1"=5'



PROPOSED PUBLIC 8" SANITARY PROFILE @ SAN MH#100
SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOTE:
1.) ALL WATER MAIN PIPE TO BE C-900 PVC UNLESS OTHERWISE NOTED.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
10/17/14
10-8-14

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
10-8-14

christopher consultants
engineering - surveying - land planning
7733-108-0602 GAITHERSBURG, MD 20878-1000
410-271-9900

STATE OF MARYLAND
10/06/2014

DES:	DAM	KMW	1.	REDLINE REVISION-CHANGE OF PIPE MATERIAL TO PVC	9-05-14
DRN:	DAM				
CHK:	ENJ				
DATE:	APR. 2011	BY:	NO.	REVISION	DATE

WATER AND SEWER
PROFILES
600 SCALE MAP NO. 24 BLOCK NO. 9

WATER & SEWER EXTENSIONS
LUTHERAN VILLAGE
AT MILLER'S GRANT
CONTRACT NO. 24-4561-D
TAX MAP 24 GRID 9, PARCEL 1001
2nd ELECTION DISTRICT

SCALE
1" = 50'
SHEET
6 OF 7

