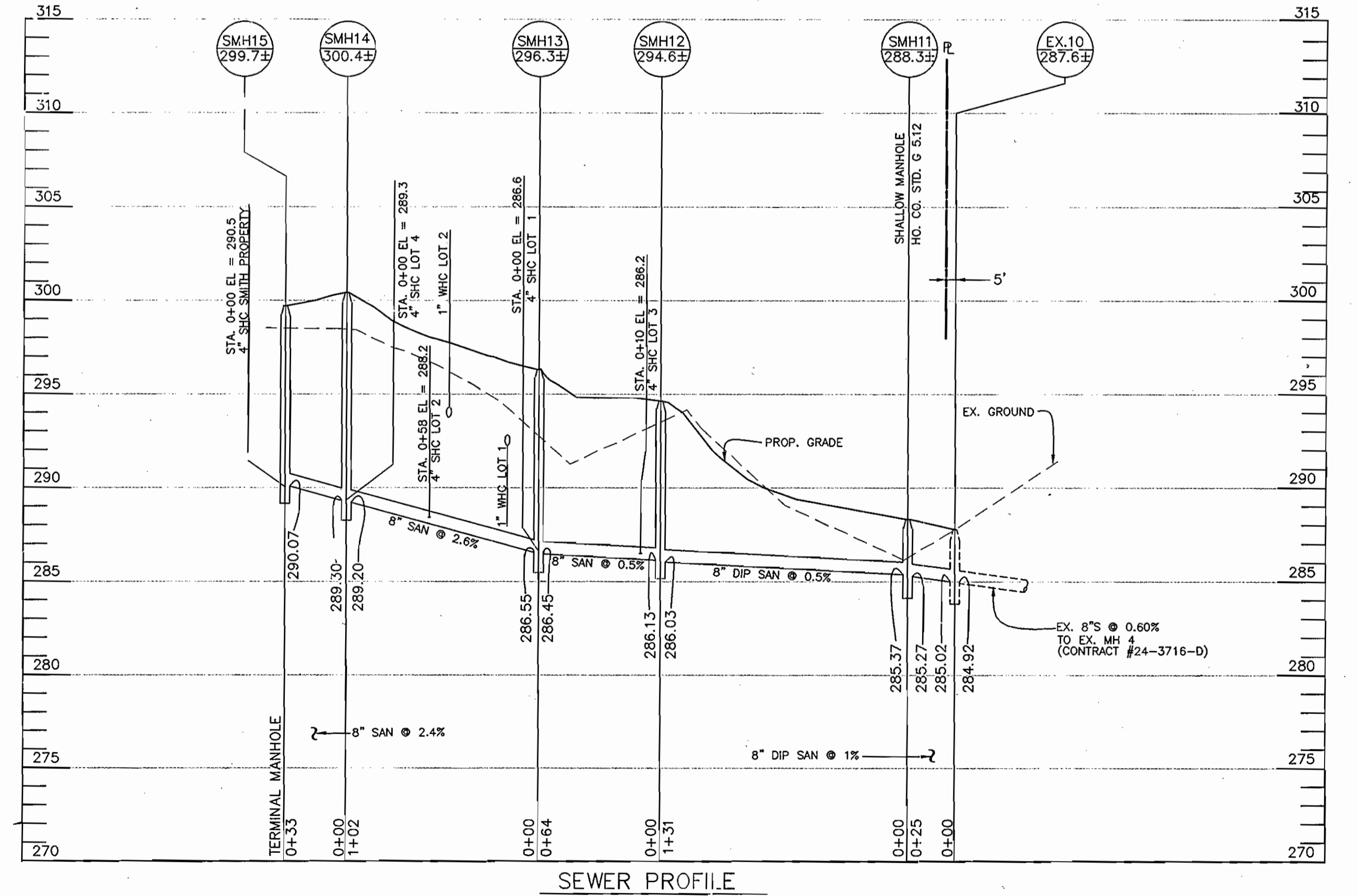
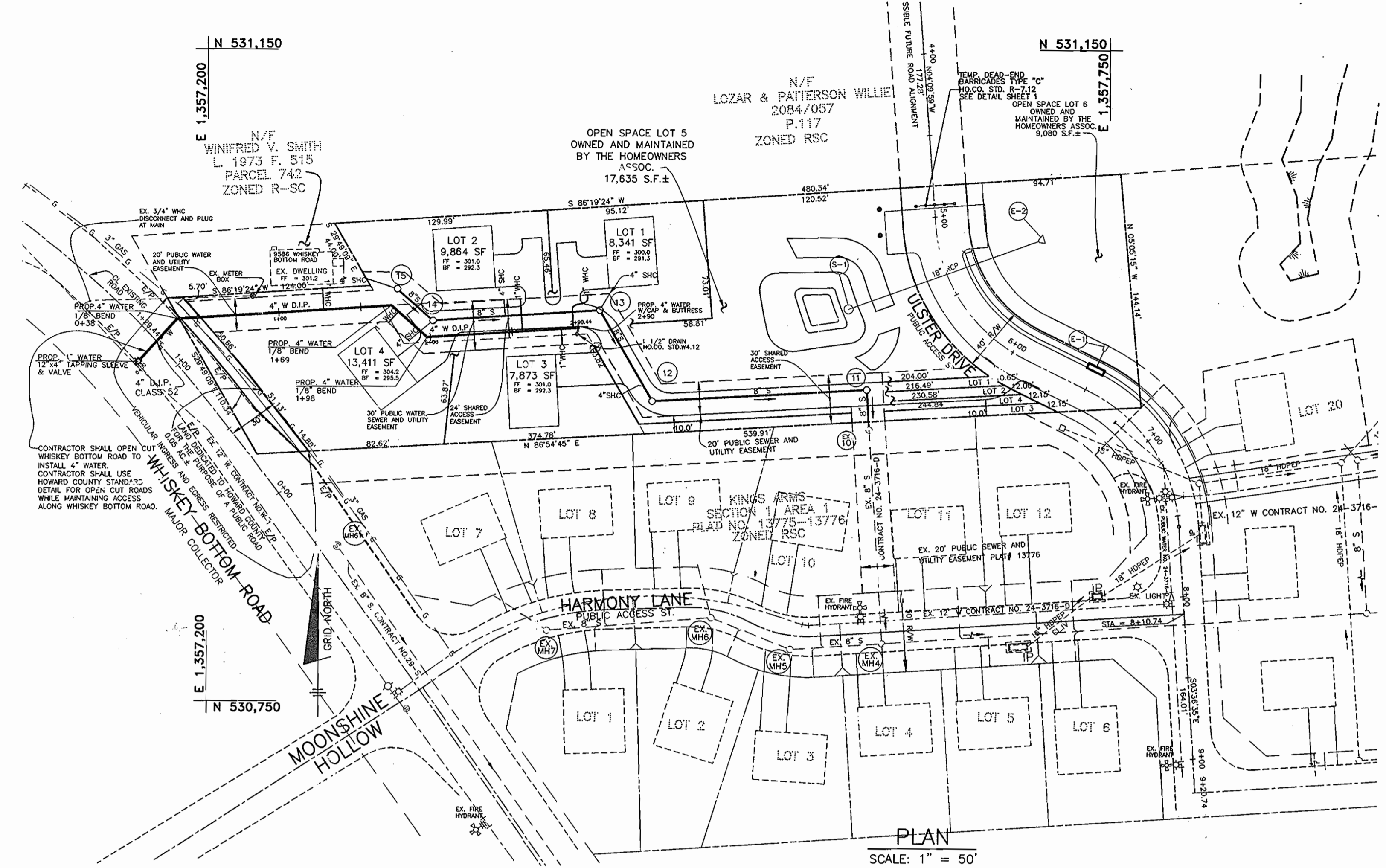
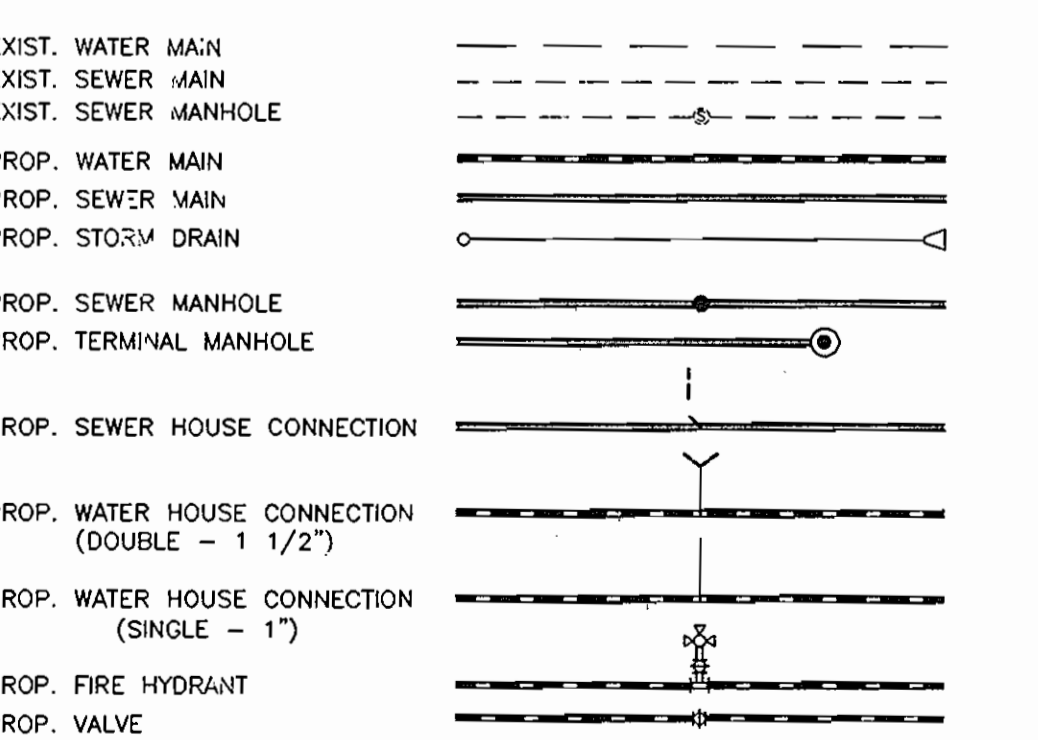


GENERAL NOTES

- PART 1 - GENERAL**
- 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.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN AUGUST, 2001, BY BENCHMARK ENGINEERING, INC. THE COORDINATES SHOWN ON THE DRAWING ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS #508A AND #508B.
 - ALL CRITICAL CONTROLS ARE BASED ON NOV23.
 - ALL PVI ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12" CLEAR ALL POLES BY 5'-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 DRAWING AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL 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 OF AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - AT&T.....1-800-252-1133
 - BGE (CONSTRUCTION).....410-650-4620
 - BGE (EMERGENCY).....410-655-1400
 - BUREAU OF UTILITIES.....410-313-4900
 - COLONIAL PIPELINE COMPANY.....410-795-1390
 - MISS UTILITIES.....1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION.....410-531-5533
 - WEA.....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. 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.
 - PLACE REGULATION "MEN WORKING" AND "W.R.N.C." SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY AT (410) 313-4550 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BRINGING/JACKING OPERATION IN COUNTY ROADS OR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE AGENCY OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.
 - PREVIOUS HOWARD COUNTY FILE NUMBER: SP-03-17.
 - NO OBSTRUCTIONS SHALL BE CONSTRUCTED OR PLACED WITHIN THE PUBLIC WATER, SEWER AND UTILITY EASEMENTS THAT WOULD IMPEDE OR HINDER ACCESS TO THE PUBLIC WATER AND SEWER MAINS. IMPROVEMENTS SUCH AS DECKS, FENCING AND TREES SHALL NOT BE PLACED WITHIN THE EASEMENTS. THE CORRESPONDING SUBORDINATE PLAN IS EXP-07-089.
 - A WAIVER TO THE 10' SETBACK BETWEEN STRUCTURES AND PUBLIC UTILITY EASEMENTS WAS REQUESTED AND WAS GRANTED NOVEMBER 30, 2006.

- PART 2 - WATER**
- ALL WATER MAINS SHALL 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 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 RESTRAINED AND BUTTRESSED WITH CONCRETE 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.
 - ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- PART 3 - SEWER**
- ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
 - 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 W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL 05.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL INDICATES THAT CELLAR CANNOT BE SEALED.
 - COORDINATES SHOWN ARE TO CENTER OF STRUCTURE.

LEGEND



BENCH MARKS--(NAD'83)

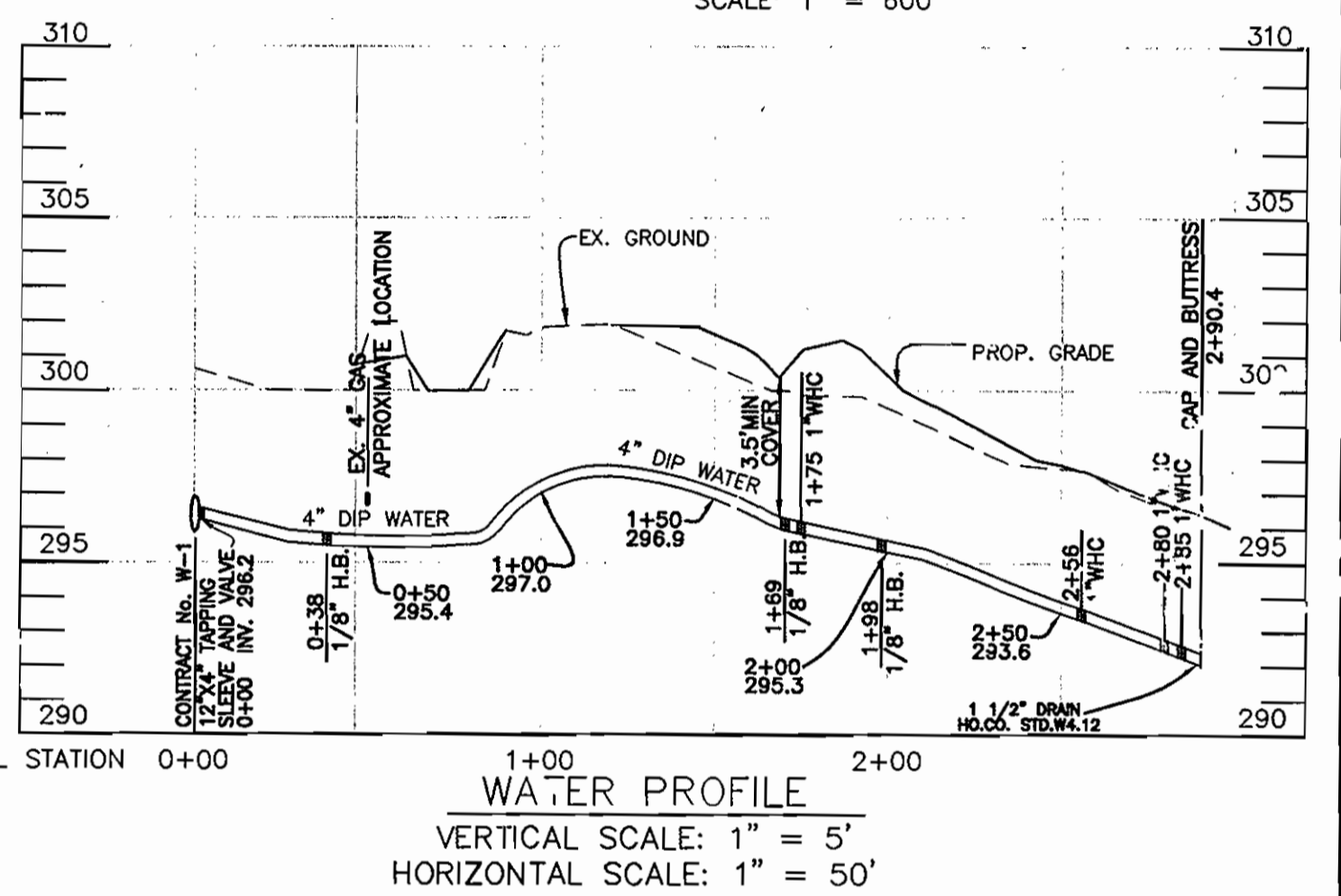
HO. CO. #508A	EL. 249.380
STANDARD DISC ON CONC. MONUMENT	
N 527561.667'	E 1359772.6'
HO. CO. #5085	EL. 178.142'
STANDARD DISC ON CONC. MONUMENT	
N 524999.355'	E 1357925.68'

MANHOLE LOCATION TABLE

LOT	FROM	TO	DIST.
1	SMH 15	CURB STOP	45'
	SMH 14	"	67.3'
	"	CLEANOUT	46'
	SMH 15	"	18.3'
	"	"	24'
	SMH 13	WHC	12'
	SMH 13	SHC	11'
2	SMH 14	WHC	54'
	"	SHC	44'
	SMH 15	WHC	74'
	"	SHC	63'
	SMH 13	WHC	49'
	"	SHC	60'
3	BLOW OFF VALVE	WHC	11'
	"	SHC	45'
	SMH 13	WHC	31'
	"	SHC	53'
4	SMH 15	WHC	27'
	"	SHC	20'
	SMH 14	WHC	23'
	"	SHC	17.4'

AS-BUILT DATA

LOT	FROM	TO	DIST.
EX. DWELLING	SMH 15	CURB STOP	45'
	SMH 14	"	67.3'
	"	CLEANOUT	46'
	SMH 15	"	18.3'
	"	"	24'
	SMH 13	WHC	12'
	SMH 13	SHC	11'
2	SMH 14	WHC	54'
	"	SHC	44'
	SMH 15	WHC	74'
	"	SHC	63'
	SMH 13	WHC	49'
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3	BLOW OFF VALVE	WHC	11'
	"	SHC	45'
	SMH 13	WHC	31'
	"	SHC	53'
4	SMH 15	WHC	27'
	"	SHC	20'
	SMH 14	WHC	23'
	"	SHC	17.4'



SHC TABLE

LOT NO.	INVERT AT MAIN	INVERT AT P/L OR ESMT.	MCE	REMARKS
1	286.6	286.8	290.3	
2	288.2	288.4	292.1	
3	286.2	286.5	290.5	
4	289.3	289.6	293.0	
SMITH PROPERTY	290.5	290.9	294.5	CONTRACTOR SHALL THE EXISTING SHC TO PROPOSED SHC THEN PROPERLY ABANDON SEPTIC SYSTEM

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
1" WHC	81 L.F.	81	K	MUELLER IND.
4" D.I.P.	291 L.F.	291	CL 54	ATLANTIC STATES
4" CAP	1 EACH	1	CL 53	UNION FOUNDRY
12"x4" T.S.&V.	1 EACH	1		SMITH BLAIR
4" SHC	73 L.F.	73	SDR 35	NORTH AMERICAN
8" SEWER	199 L.F.	199	"	"
8" DIP SEWER	156 L.F.	156	CL 52	ATLANTIC STATES
MANHOLES	5 EACH	5	SANITARY	CONTRACTORS PRE-CAST

NAME OF UTILITY CONTRACTOR: C.J. MILLER
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: 9-17-08

- SEPTIC ABANDONMENT SEQUENCE**
- PROVISIONS SHALL BE MADE TO CONNECT THE EXISTING HOUSE ON THE WINIFRED SMITH PROPERTY TO THE PUBLIC SEWER SYSTEM PRIOR TO ANY DISTURBANCE OF THE EXISTING SEPTIC FIELD.
 - NOTIFY THE HOWARD COUNTY HEALTH DEPARTMENT THAT THE EXISTING SEPTIC SYSTEM IS READY TO BE ABANDONED.
 - HAVE THE TANK AND DRY WELL (IF PRESENT), PUMPED DRY BY A CERTIFIED SEPTIC HANDLER.
 - CRUSH THE TOP OF THE TANK AND FILL AS NEEDED WITH CLEAN FILL MATERIAL. IF ANY PORTION OF THE SYSTEM MUST BE DUG UP AND REMOVED TO CLEAR OTHER UTILITIES, DO SO AT THIS TIME.
 - NO PART OF THE SEPTIC SYSTEM SHALL BE TRANSPORTED OFF-SITE. THE CONTRACTOR SHALL NOTIFY THE HEALTH DEPARTMENT IF IT IS NECESSARY TO PROPOSE OFF-SITE DISPOSAL OF ANY PART OF THE SEPTIC SYSTEM.
- WELL ABANDONMENT SEQUENCE**
- THE WELL SHALL BE FILLED AND CAPPED PRIOR TO THE BEGINNING OF ANY ON-SITE CONSTRUCTION.
 - HAVE THE WELL FILLED AND CAPPED WITH CONCRETE BY A CERTIFIED WELL DRILLER.
 - THE WELL DRILLER SHALL FORWARD A COPY OF THE WELL DRILLER'S CERTIFICATE TO THE HOWARD COUNTY HEALTH DEPARTMENT.

OWNER/DEVELOPER:
SECURITY DEVELOPMENT, LLC
P.O. BOX 417
ELLICOTT CITY, MD 21043
410-465-4244

HOWARD SOIL CONSERVATION DISTRICT:
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENTS

Jim Meyer
NATURAL RESOURCES CONSERVATION SERVICE

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

John P. Kauter 8/2/07
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLAN F-07-069

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Ruth Berger 7-18-07
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

John Quinn 8/6/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

BENCHMARK ENGINEERING, INC.
ENGINEERS & LAND SURVEYORS & PLANNERS
8480 BALTIMORE NATIONAL PIKE A SUITE 418
ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-8105 FAX: 410-465-6644

DES: AAM
DRN: EDD
CHK: CAM
DATE: 3/07

KCI AS-BUILT DATA ADDED
BY NO. REVISIONS DATE

WATER AND SEWER
PLAN, PROFILE AND DETAILS

600 SCALE MAPS: W47 & S47 BLOCKS: 21 & 22

KING'S ARMS SECTION 3
ELECTION DISTRICT NO. 6
CONTRACT NO. 24-4176-D

SCALE: AS SHOWN
SHEET NO. 1 OF 1