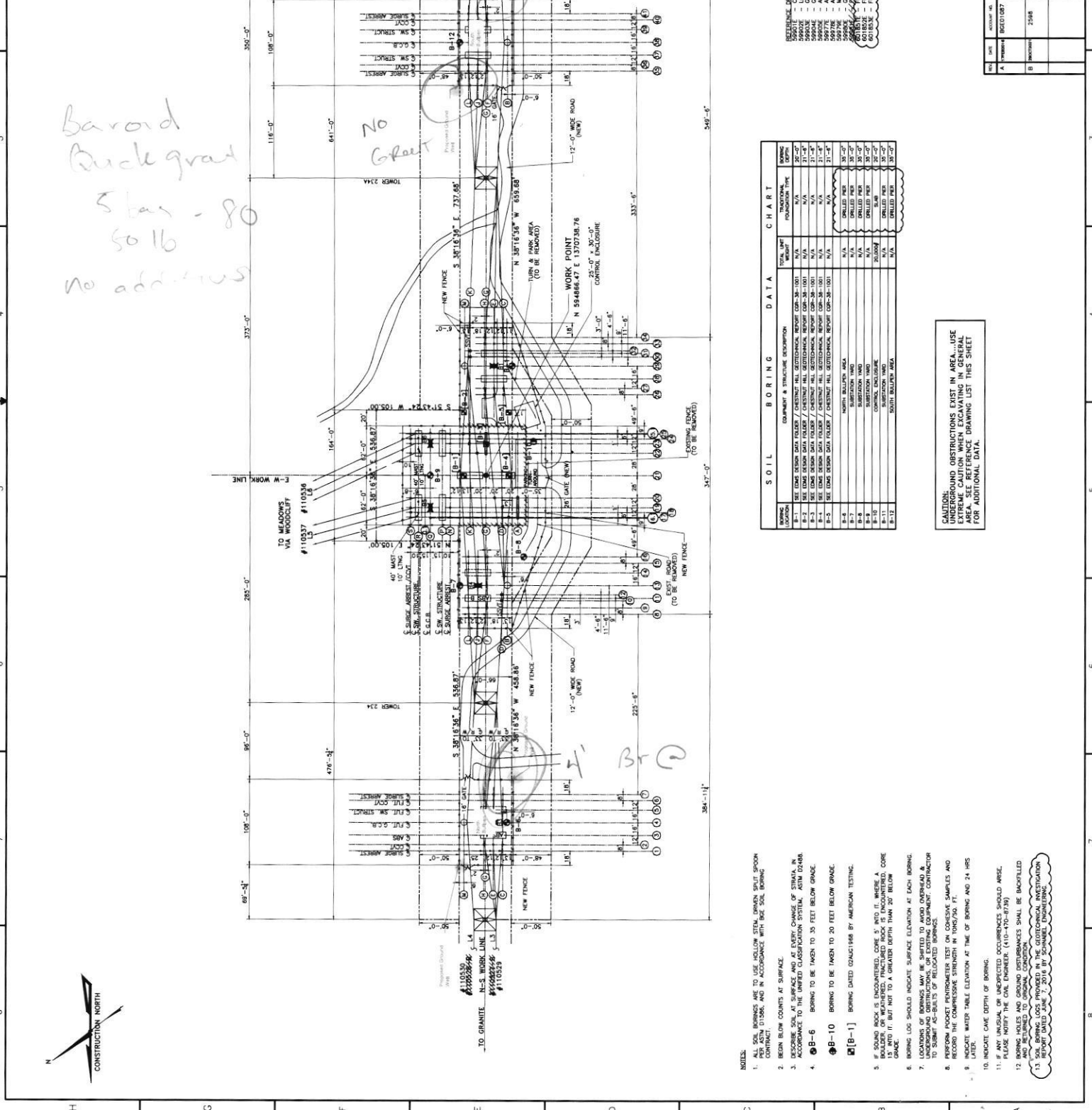
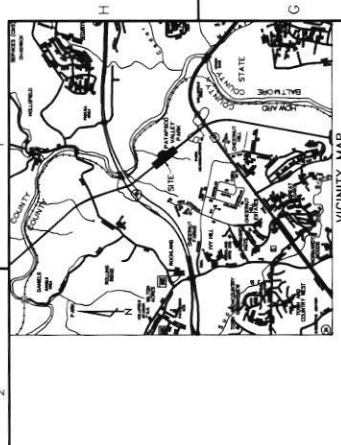


<b>B 1</b>	SEQUENCE NO. (MDE USE ONLY) <u>79389</u>	STATE OF MARYLAND <b>APPLICATION FOR PERMIT TO DRILL WELL</b> please type <u>571524</u>	STATE PERMIT NUMBER <u>40 - 20 - 0177</u> <small>fill in this form completely</small>
1 2 3 6	<b>OWNER INFORMATION</b> Date Received (APA) <u>05/28/22</u> 8 MM DD YY 13 Last Name <u>BGE</u> Owner First Name _____ 34 Street or RFD <u>Po Box 1475</u> 55 Town <u>Baltimore</u> State <u>MD</u> Zip <u>21203</u> 76		<b>B 3 LOCATION OF WELL</b> COUNTY <u>Howard</u> 21 SUBDIVISION <u>Chestnut Hill Substation</u> 42 SECTION _____ LOT <u>Bore #2</u> 48 50 NEAREST TOWN <u>Ellicott City</u> 71
<b>DRILLER INFORMATION</b> Driller's Name <u>Michael Barlow</u> License No. <u>MWD355</u> 81 Firm Name <u>Barlow Well Drilling</u> Address <u>522 Underwood Lane 21014</u> Signature _____ Date <u>4/20/22</u>		<b>B 4 SOURCES OF DRILLING WATER</b> 1. <u>Well</u> 2. _____ 3. _____ STREET ADDRESS <u>Baltimore National Pike</u> 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH <input type="checkbox"/> WEST <input checked="" type="checkbox"/> EAST <input type="checkbox"/> SOUTH <input type="checkbox"/> DISTANCE FROM ROAD <u>1600</u> FT ENTER FT OR MI 38 39 TAX MAP: _____ BLK: _____ PARCEL: _____	
<b>B 2</b>	<b>WELL INFORMATION</b> APPROX. PUMPING RATE (GAL. PER MIN.) _____ 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) _____ 14 20		<b>NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL</b> COUNTY NAME <u>Howard</u> COUNTY NO. <u>(13)</u> STATE SIGNATURE _____ INSERT S → 41 DATE ISSUED <u>5/17/22</u> CO SIGNATURE _____ EXP. DATE <u>5/17/23</u> 43 MM DD YY 48
<b>USE FOR WATER (CIRCLE APPROPRIATE BOX)</b> <input type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input checked="" type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <u>Electric Ground Well</u> <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> OPEN LOOP GEOTHERMAL <input type="checkbox"/> CLOSED LOOP GEOTHERMAL			
APPROXIMATE DEPTH OF WELL <u>150</u> FEET 24 28		<b>PROPOSED LOCATION OF WELL ON LOT</b> SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL 	
APPROXIMATE DIAMETER OF WELL <u>6</u> INCH NEAREST INCH			
<b>METHOD OF DRILLING (circle one)</b> BORED (or Augered) _____ JETTED _____ Jetted & DRIVEN _____ AIR-ROTARY _____ AIR-PERCussion _____ ROTARY (Hydraulic Rotary) _____ CABLE _____ REVerse-ROTary _____ DRive-POINT _____ other _____			
<b>REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)</b> <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52		Pursuant to § 10-624 of the State Govt. Article of the Maryland Code, personal info requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or State Law.	
<b>Not to be filled in by driller (MDE OR COUNTY USE ONLY)</b> APPROP. PERMIT NUMBER _____ G _____ PERMIT No. <u>40 - 20 - 0177</u> 70 71 72 73 74 75 76 77 78 79			
<b>SPECIAL CONDITIONS</b> NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED			

<b>C 1</b> 76312	SEQUENCE NO. (MDE USE ONLY)	<b>STATE OF MARYLAND WELL COMPLETION REPORT</b> FILL IN THIS FORM COMPLETELY PLEASE TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)			COUNTY NUMBER
ST/CO USE ONLY DATE RECEIVED MM DD YY 07 03 2022	DATE WELL COMPLETED MM DD YY 06 06 2022	Depth of Well 22 50 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" HD-20-0177
OWNER: BGF		TOWN: ELICOTT CITY	
WELL SITE ADDRESS: Baltimore National Pike		SUBDIVISION: Chestnut Hill Substation SECTION: LOT: Box 2	
<b>WELL LOG</b> Not required for driven wells		<b>GROUTING RECORD</b> yes no	
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		WELL HAS BEEN GROUTED (Circle Appropriate Box) <input checked="" type="radio"/> Y <input type="radio"/> N	
DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Soil	0	5	
Brown Shale	5	52	
Med GRAI Rock	52	150	
Hole Filled with Bentonite AFTER insertion of Ground Rod			
TYPE OF GROUTING MATERIAL (Circle one)		CEMENT <input checked="" type="radio"/> CM BENTONITE CLAY <input checked="" type="radio"/> BC	
NO. OF BAGS 14 NO. OF POUNDS 350		GALLONS OF WATER 700	
DEPTH OF GROUT SEAL (to nearest foot)		from 0 ft. to 150 ft.	
Casing types insert appropriate code below		<b>CASING RECORD</b>	
		STEEL <input checked="" type="radio"/> ST CONCRETE <input type="radio"/> CO	
		PLASTIC <input type="radio"/> PL OTHER <input type="radio"/> OT	
MAIN CASING TYPE		Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)	
ST		6 55	
OTHER CASING (if used)		diameter depth (feet)	
		inch from to	
screen type or open hole		<b>SCREEN RECORD</b>	
insert appropriate code below		STEEL <input checked="" type="radio"/> ST BRASS <input type="radio"/> BR OPEN HOLE <input type="radio"/> HO	
		BRONZE <input type="radio"/> PLASTIC <input type="radio"/> PL OTHER <input type="radio"/> OT	
NUMBER OF UNSUCCESSFUL WELLS: 0		<b>C 2</b> DEPTH (nearest ft.)	
WELL HYDROFRACTURED <input checked="" type="radio"/> Y <input type="radio"/> N		1 2	
CIRCLE APPROPRIATE LETTER		A 8 9 11 15 17 21	
A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED		2 23 24 26 30 32 36	
E ELECTRIC LOG OBTAINED		3 38 39 41 45 47 51	
P TEST WELL CONVERTED TO PRODUCTION WELL		E N	
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.		SLOT SIZE 1 2 3	
DRILLERS LIC. NO. MWD 355		DIAMETER OF SCREEN (NEAREST INCH)	
DRILLERS SIGNATURE		56 60	
LIC. NO. WRD 113		from to	
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68		68	
MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)		T (E.R.O.S.) W Q	
70 72 74 75 76		TELESCOPE CASING LOG INDICATOR OTHER DATA	
		<b>C 3</b> <b>PUMPING TEST</b>	
		HOURS PUMPED (nearest hour) 8 9	
		PUMPING RATE (gal. per min.) 11 15	
		METHOD USED TO MEASURE PUMPING RATE	
		WATER LEVEL (distance from land surface)	
		BEFORE PUMPING 17 20 ft.	
		WHEN PUMPING 22 25 ft.	
		TYPE OF PUMP USED (for test)	
		A air P piston T turbine	
		C centrifugal R rotary O other (describe below)	
		J jet S submersible	
		<b>PUMP INSTALLED</b>	
		DRILLER INSTALLED PUMP YES NO	
		(CIRCLE) (YES or NO)	
		IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.	
		TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29	
		CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35	
		PUMP HORSE POWER 37 41	
		PUMP COLUMN LENGTH (nearest ft.) 43 47	
		CASING HEIGHT (circle appropriate box and enter casing height)	
		+ above } LAND SURFACE (nearest foot)	
		- below }	
		LATITUDE 39.298932	
		LONGITUDE 76.792417	
		(DEFAULT COORD. WGS 84)	
		Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or state law.	



- REFERENCE DRAWINGS:**
- ONE LINE WORKING DRAWING
  - LOCATION PLAN AND ARRANGEMENT OF OVERHEAD LINES
  - GROUND WIRE SYSTEM CABLE PLAN AND LIGHTING
  - ARRANGEMENT OF EQUIPMENT PLAN AND SECTIONS
  - ARRANGEMENT OF EQUIPMENT SECTIONS
  - GROUND WIRE SYSTEM CABLE PLAN AND LIGHTING
  - FOUNDATION LOCATION PLAN - NORTH BULFINCH
  - FOUNDATION LOCATION PLAN - SOUTH BULFINCH

SOIL BORING DATA		CHART	
BORING LOCATION	EQUIPMENT & STRUCTURE DESCRIPTION	TOTAL DEPT. FEET	FOUNDATION TYPE
B-1	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-2	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-3	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-4	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-5	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-6	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-7	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-8	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-9	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-10	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-11	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A
B-12	SEE TIME DESIGN DATA FOLDER / CHESTNUT HILL GEOTECHNICAL REPORT (COP-28-100)	N/A	N/A

**CAUTION:** OBSTRUCTIONS EXIST IN AREA. USE EXTREME CAUTION WHEN EXCAVATING IN GENERAL AREA. SEE REFERENCE DRAWING LIST THIS SHEET FOR ADDITIONAL DATA.

- NOTES:**
- ALL SOIL BORINGS ARE TO USE HOLLOW STEM, DRIVEN SHUT SPOON CONTRACT.
  - BELOW BLOW COUNTS AT SURFACE.
  - RECORDE SOIL AT SURFACE AND AT EVERY CHANGE OF STRATA IN ACCORDANCE TO THE UNIFIED CLASSIFICATION SYSTEM, ASTM D2486.
  - BORING TO BE TAKEN TO 35 FEET BELOW GRADE.
  - BORING TO BE TAKEN TO 20 FEET BELOW GRADE.
  - BORING DATED 02/06/1988 BY AMERICAN TESTING.
  - IF SHOWN HOLE IS ENCOUNTERED, CORE IS TO BE TAKEN TO 15 FEET INTO IT, BUT NOT TO A GREATER DEPTH THAN 20 FEET BELOW GRADE.
  - BORING LOGS SHOULD INDICATE SURFACE ELEVATION AT EACH BORING.
  - LOCATIONS OF BORINGS MAY BE SHIFTED TO AVOID OVERHEAD LINES AND OBSTRUCTIONS. CONTRACTOR TO SUBMIT AS-BUILTS OF RELOCATED BORINGS.
  - PERFORM POCKET PENETROMETER TEST ON COHESIVE SAMPLES AND RECORD THE COMPRESSIVE STRENGTH IN TONS/SQ. FT.
  - INDICATE WATER TABLE ELEVATION AT TIME OF BORING AND 24 HRS AFTER.
  - INDICATE DEPTH OF BORING.
  - IF SHOWN HOLE IS ENCOUNTERED, CORE IS TO BE TAKEN TO 15 FEET INTO IT, BUT NOT TO A GREATER DEPTH THAN 20 FEET BELOW GRADE.
  - BORING HOLES AND GROUND DISTURBANCES SHALL BE BACKFILLED AND RETURNED TO ORIGINAL CONDITION.
  - SOIL BORING LOGS PROVIDED IN THE GEOTECHNICAL INVESTIGATION REPORT DATED JUNE 7, 2016 BY JOHNNAL ENGINEERING.

**AS-BUILT**

FULL SET OF AS-BUILT DRAWINGS (WITH OR WITHOUT CHANGES) CHANGES REQUIRED (YES / NO / I.C.)

NAME (PRINT) / DATE: \_\_\_\_\_ / \_\_\_\_\_

COMPANY: \_\_\_\_\_

MANAGEMENT MODEL DOCUMENT: \_\_\_\_\_

MAN-02-5001 FOR COMPLIANCE: \_\_\_\_\_

NO.	DATE	ACCOUNT NO.	DESCRIPTION	APPROVED BY	APPROVED DATE
A	1/18/2017	00000000	REVISION TO NOTES AND DESIGNS	_____	_____
B	1/18/2017	21048	DESIGN OF 11KV OUTDOOR SWITCHING STATION EQUIPMENT	_____	_____

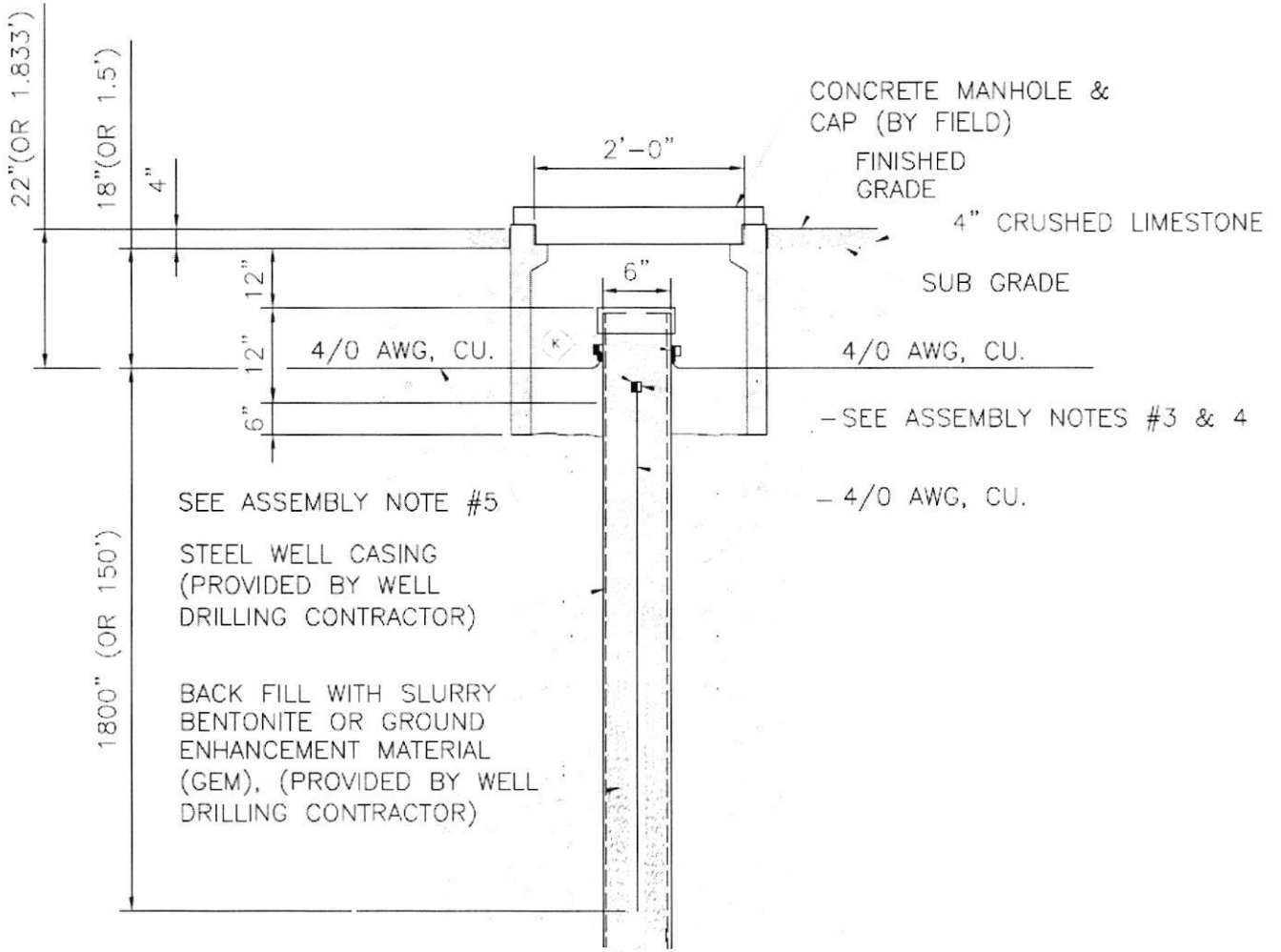
**SOIL BORING LOCATION PLAN**

CHESTNUT HILL

ELECTRICAL ENGINEERING

DATE: 1/18/2017

NO: 58000E B



GENERAL NOTES