

# GREATER GETTYSBURG DEVELOPMENT COMPANY, LLC.

## GETTYSBURG COMMONS - WATER TREATMENT AND DISTRIBUTION SYSTEM -

### List of known Utility Owners

PPL Gas 555 Camargo Road Quarryville, Pa. 17566 717-560-2695	Adams Electric Co-Op 1338 Biglerville Road Gettysburg, Pa. 17325 717-334-2171	Columbia Gas 1895 Granite Station Road Gettysburg, Pa. 17325 717-749-5618
Sprint Communications 1-800-877-7746	Straban Township 1745 Granite Station Road Gettysburg, Pa. 17325 717-334-4833	Gettysburg Municipal Authority 601 E. Middle Street Gettysburg, Pa. 17325 717-334-6738
Adelphia Cable 1155 Benner Pike State College, Pa. 16801 814-238-3096		

### ACT 187 UNDERGROUND UTILITY PROTECTION ACT

MARTIN & MARTIN INC. HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT NO. 287 OF 1974, AS AMENDED BY ACT 187 OF 1966, OF THE PENNSYLVANIA LEGISLATURE, IT HAS PERFORMED THE FOLLOWING IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON THE DRAWINGS:

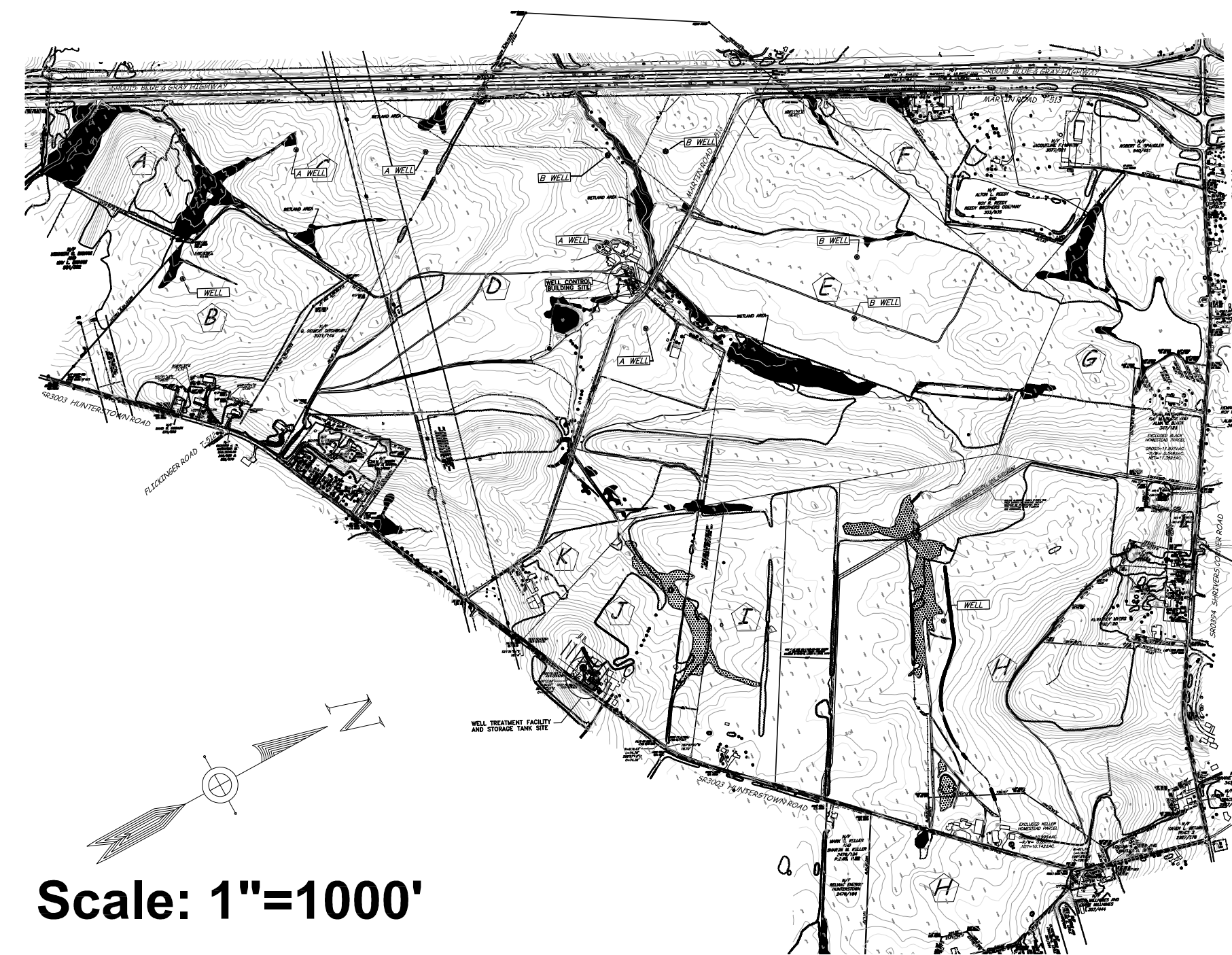
- PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, MARTIN & MARTIN INC. REQUESTED FROM EACH USER'S OFFICE DESIGNATED ON SUCH LIST PROVIDED BY THE ONE CALL SYSTEM NOTIFICATION, THE INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) OF SAID ACT, NOT LESS THAN (10) NOR MORE THAN (90) WORKING DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.
- PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, MARTIN & MARTIN INC. HAS MET THEIR OBLIGATIONS OF CLAUSE(2) BY CALLING THE ONE CALL SYSTEM SERVING THE LOCATION WHERE EXCAVATION IS TO BE PERFORMED
- PURSUANT TO SECTION 4, (3) OF SAID ACT, MARTIN & MARTIN INC. HAS SHOWN UPON THESE DRAWINGS THE POSITION AND TYPE OF EACH LINE, AS DERIVED PURSUANT TO THE REQUEST MADE AS REQUIRED BY CLAUSE (2), THE SERIAL NUMBER PROVIDED BY THE ONE CALL SYSTEM, THE TOLL-FREE ONE CALL SYSTEM DESIGNATED OFFICE ADDRESS AND PHONE NUMBER AS SHOWN ON THE LIST REFERRED TO IN SECTION 4, CLAUSE (5) OF SAID ACT."

AND MARTIN & MARTIN INC. DOES NOT MAKE REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO SAID REQUEST AND AS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE, BUT MARTIN & MARTIN INC. IS REFLECTING SAID INFORMATION ON THESE DRAWING ONLY DUE TO THE REQUIREMENTS OF THE SAID ACT NO. 187 OF DECEMBER 19, 1996.

ONE CALL SYSTEM SERIAL NO. NOTIFICATION BY MARTIN & MARTIN INC.  
DATE:  
ONE CALL SYSTEM SERIAL NUMBER:

**PAI**  
SYSTEM, INC.  
1-800-242-1776

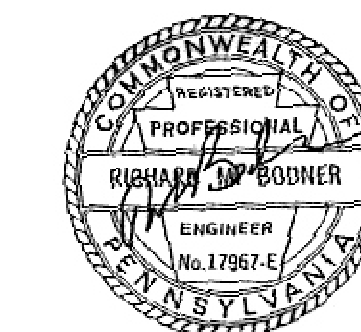
**STOP-CALL BEFORE YOU DIG!**  
PENNSYLVANIA LAW REQUIRES  
(3) WORKING DAYS NOTICE FOR  
CONSTRUCTION PHASE AND (10) WORKING  
DAYS IN DESIGN STAGE



Scale: 1"=1000'

Index Map

JULY 7, 2017



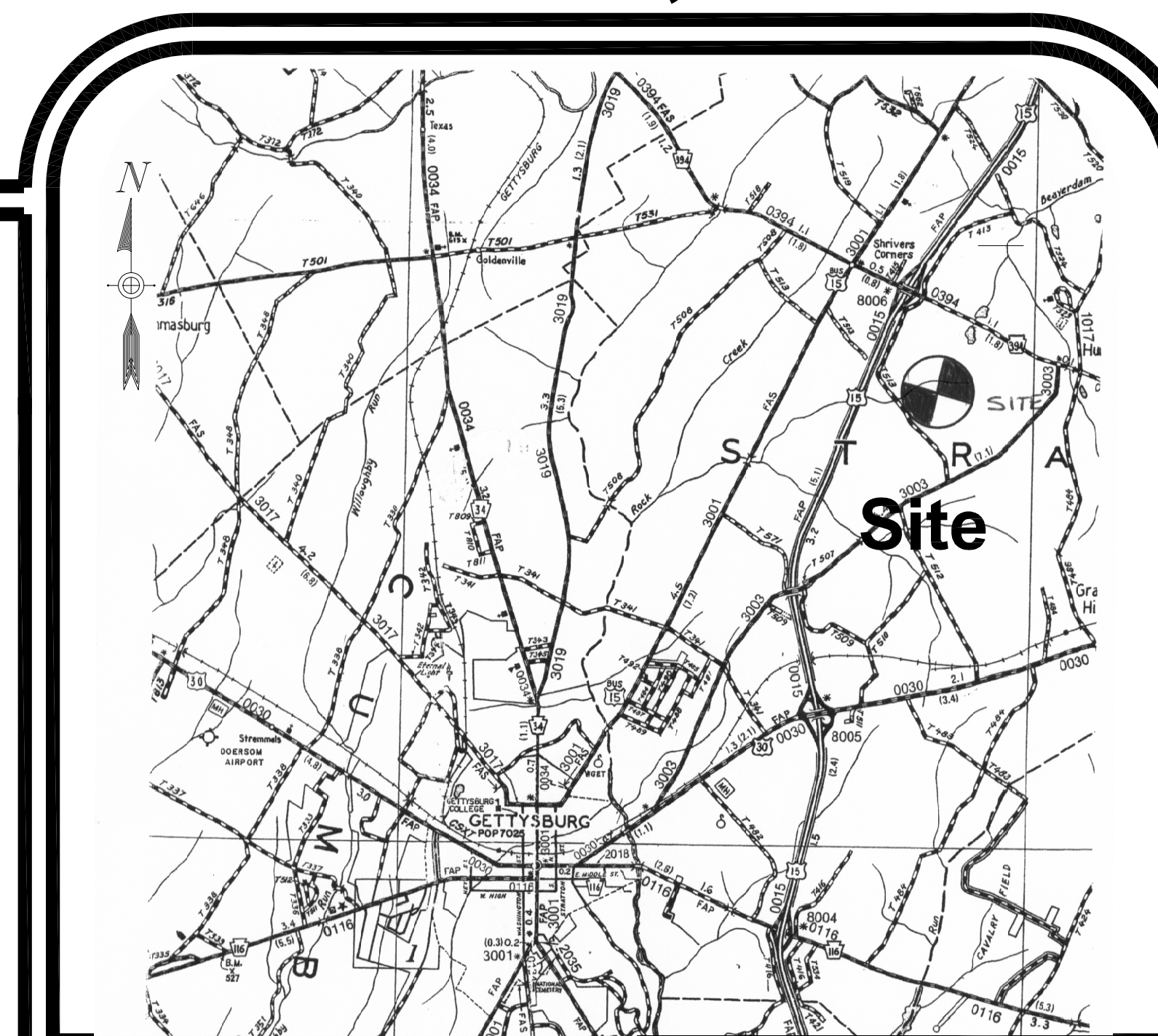
### Owner / Developer

Greater Gettysburg Development Company, LLC.  
601 Mason Dixon Road  
Gettysburg, Pa. 17325-3307  
Phone: (717)-334-8000  
Fax: (717)-334-8020

Straban Township

Adams County, Pa.

**MMI** martin and martin incorporated  
phone: (717) 264-6759 37 south main street . suite A  
fax: (717) 264-7339 chambersburg, pennsylvania . 17201-2251  
e-mail: martinmartin@innernet.net

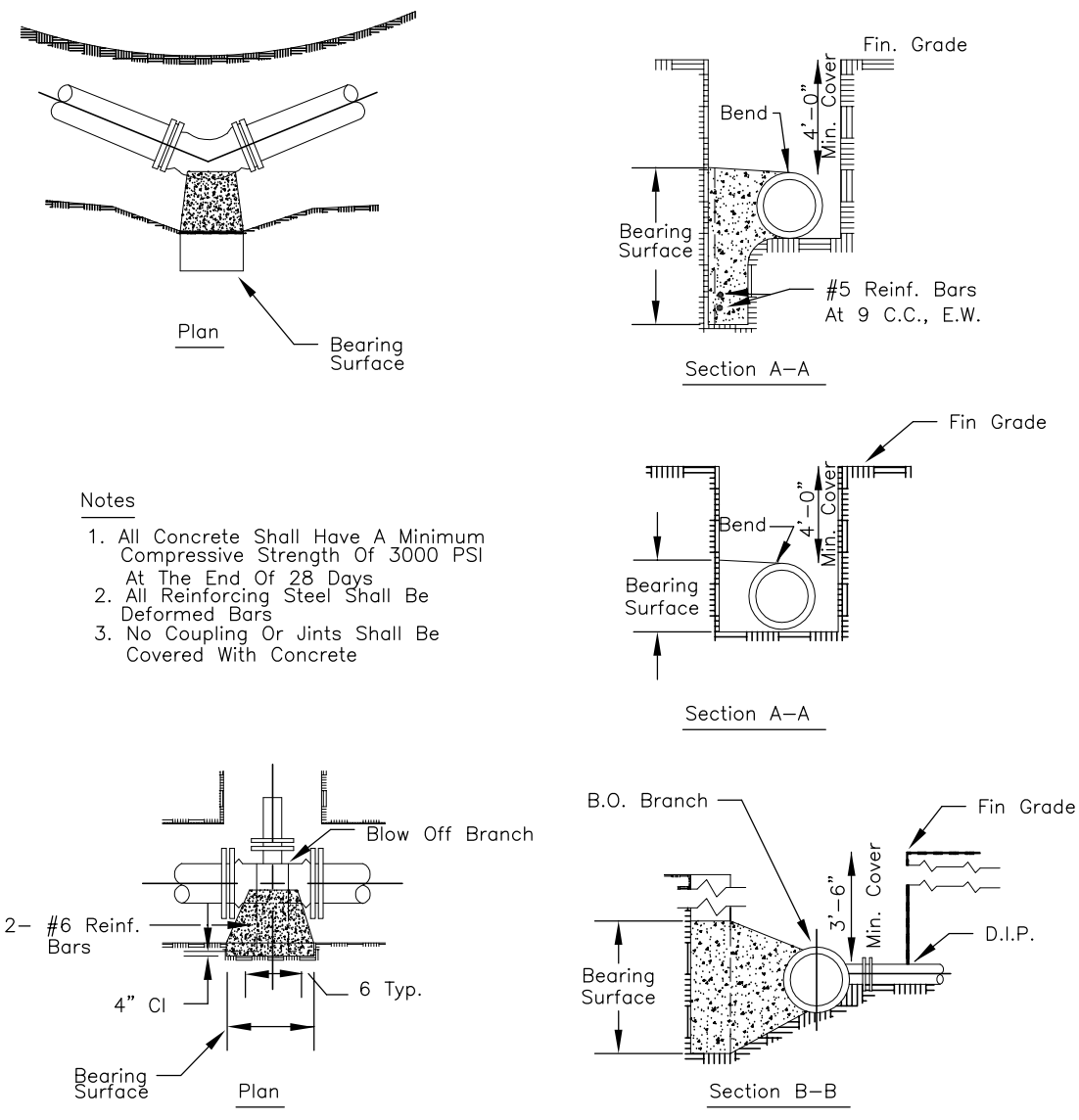


Location Map Scale: 1"=2000'

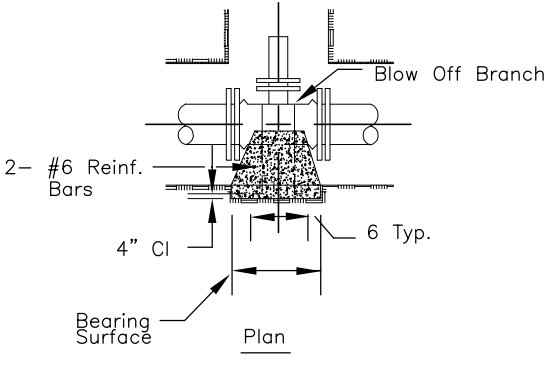
### Index of Drawings

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SUPPLEMENTAL PLANS  
SHARRAH DESIGN GROUP, INC.  
WATER DISTRIBUTION PLANS UT-A2 TO PR-A8 (23 DRAWINGS)



- Notes
1. All Concrete Shall Have A Minimum Compressive Strength Of 3000 PSI At The End Of 28 Days
  2. All Reinforcing Steel Shall Be Deformed Bars
  3. No Coupling Or Joints Shall Be Covered With Concrete



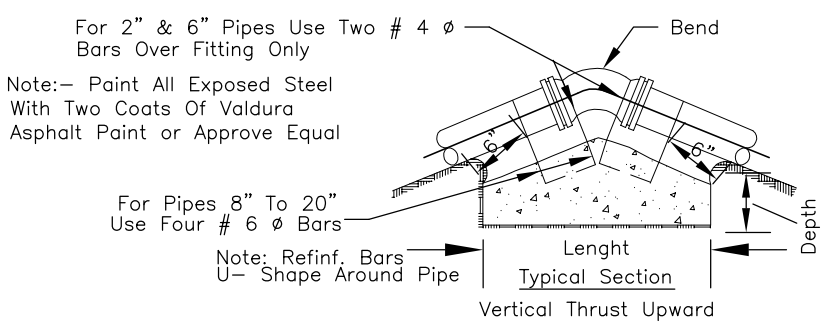
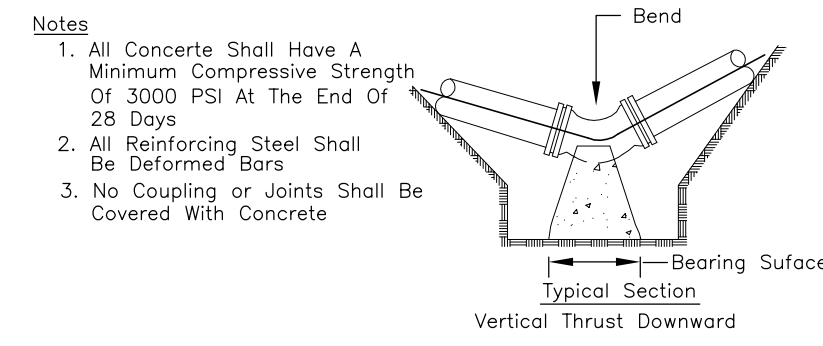
Minimum Square Feet Of Bearing Surface For Horizontal Thrust Blocking And Vertical Thrust Downward

Pipe Size	6" & 8"			10" & 12"				
	Degree	Bend	Or Deflection	Degree	Bend	Or Deflection		
Type of Bearing Material & Allowable Loads	11-1/4	22-1/2	45	90	11-1/4	22-1/2	45	90
Sand & Soft Clay 1 Ton/Sq.Ft	1.50	3.00	6.00	12.00	3.00	6.00	12.00	24.50
Sand & Gravel 2 Ton/Sq.Ft	1.00	1.50	3.00	6.00	1.50	3.00	6.00	12.00
Clay 3 Ton/Sq.Ft	1.00	1.00	2.00	4.00	1.00	2.00	4.00	8.00
Soft Rock 5 Ton/Sq.Ft	1.00	1.00	1.00	2.50	1.00	1.00	2.50	5.00
Rock 20 Ton/Sq.Ft	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Minimum Square Feet Of Bearing Surface For Horizontal Thrust Blocking And Vertical Thrust Downward

Pipe Size	14" & 16"			18" & 20"				
	Degree	Bend	Or Deflection	Degree	Bend	Or Deflection		
Type of Bearing Material & Allowable Loads	11-1/4	22-1/2	45	90	11-1/4	22-1/2	45	90
Sand & Soft Clay 1 Ton/Sq.Ft	5.50	11.00	22.50	43.00	8.50	16.50	33.00	66.00
Sand & Gravel 2 Ton/Sq.Ft	2.50	5.50	11.00	21.50	4.00	8.50	16.50	33.00
Clay 3 Ton/Sq.Ft	2.00	3.50	7.00	14.00	3.00	5.50	11.00	22.00
Soft Rock 5 Ton/Sq.Ft	1.00	2.00	4.50	8.50	1.00	3.50	6.50	13.00
Rock 20 Ton/Sq.Ft	1.00	1.00	1.00	2.00	1.00	1.00	1.50	3.50

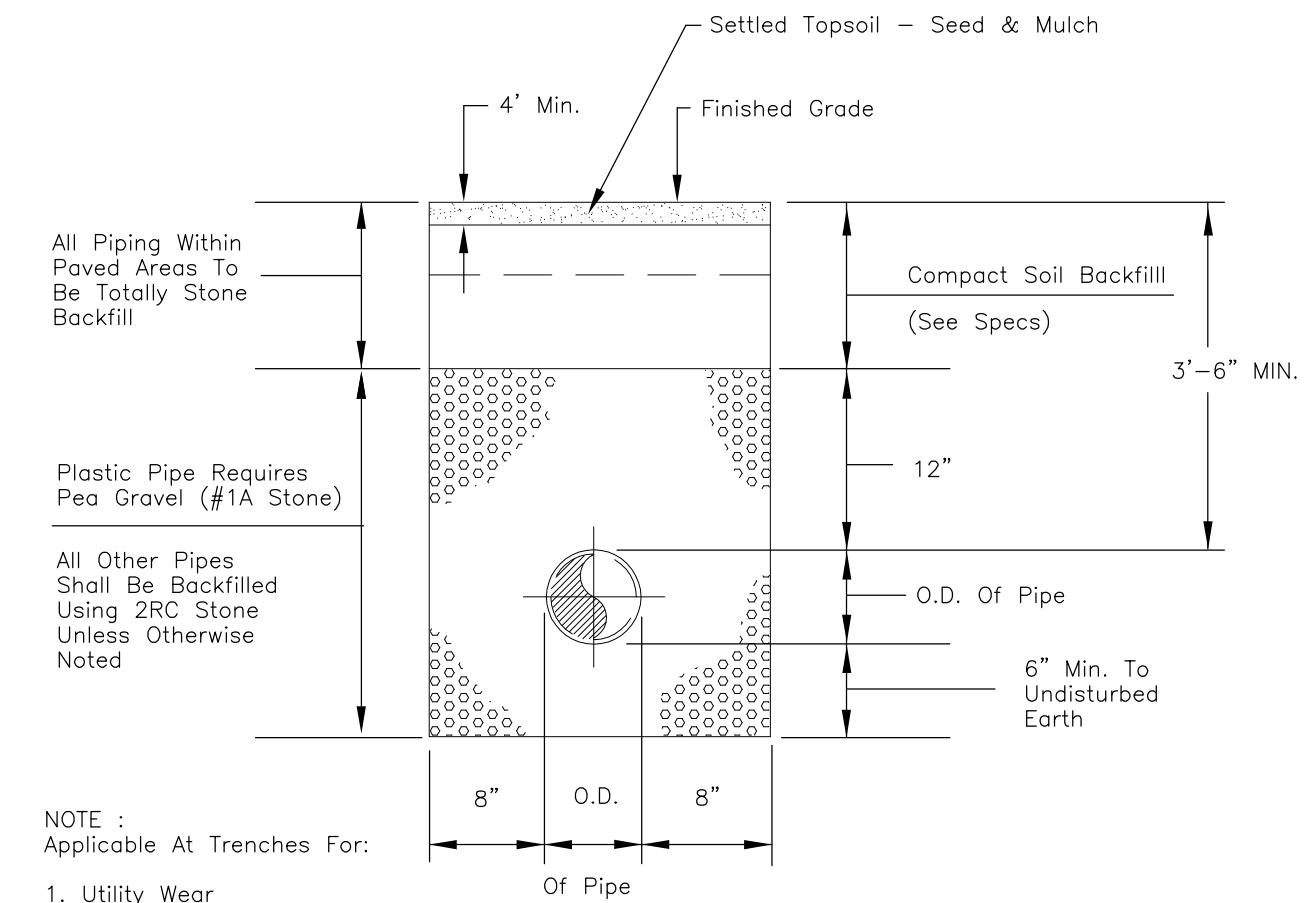
**TYPICAL BLOCKING FOR HORIZONTAL THRUSTS  
150 P.S.I. WORKING PRESSURE**



Dimensions Of Concrete Blocking For Vertical Bends With An Upward Thrust Of 150 P.S.I. Working Pressure

Pipe Size	Length			Width			Depth		
	11-1/4	22-1/2	45	11-1/4	22-1/2	45	11-1/4	22-1/2	45
6" & 8"	3'	4'	6'	3'	3'	3'	2'	3'	4'
10" & 12"	4.5'	6.0'	8.0'	3'	3'	4'	3'	4.5'	5'
14" & 16"	6'	9'	11'	3.5'	3.5'	5'	3.5'	5'	6'
18" & 20"	7'	9'	13'	4'	5'	5.5'	4'	5'	6'

**TYPICAL BLOCKING FOR VERTICAL THRUSTS  
150 P.S.I. WORKING PRESSURE**



NOTE : Applicable At Trenches For:

1. Utility Wear
2. Domestic Water And Sewer
3. Sludge Lines
4. Air Lines
5. Force Mains
6. Chlorine Lines
7. All Other Underground Piping (Unless Noted Otherwise On Plans Or Specs)

**TYPICAL TRENCH DETAIL**



NO.	REVISION	DATE

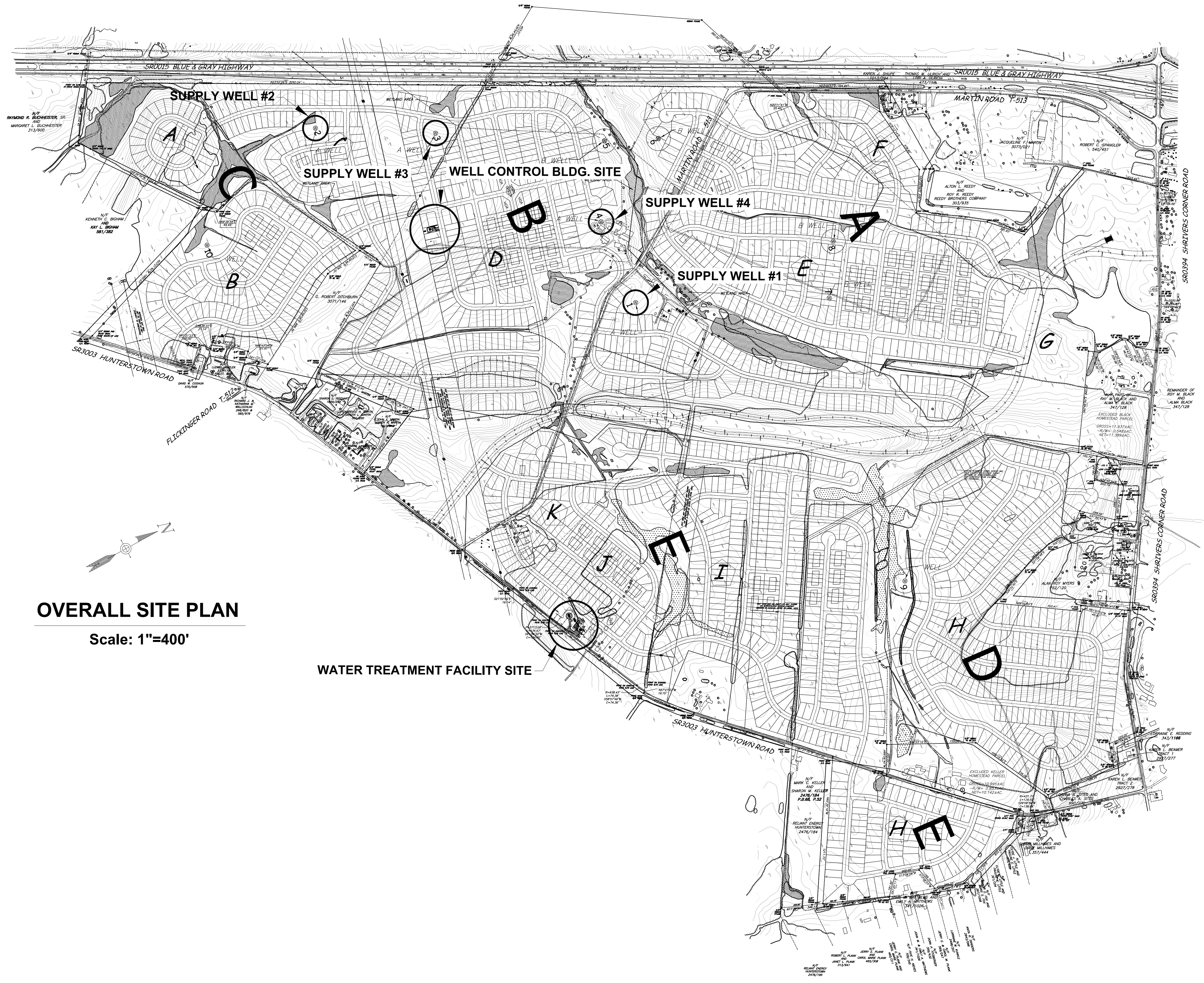
ADAMS CO.  
**WATER PIPING DETAILS**  
**WATER TREATMENT AND DISTRIBUTION SYSTEM**  
GREATER GETTYSBURG DEVELOPMENT CO., LLC.

STRABAN TWP.  
mmi martin and martin incorporated  
phone: (717) 37 south main street • suite A  
264-6759 chambersburg, pennsylvania . 17201  
SCALE: AS NOTED  
DES. BY: JM  
CHK. BY: JM  
DATE: 07/07/17

CADD FILE:  
1250.6-04-C3.DWG  
SCALE:  
AS NOTED

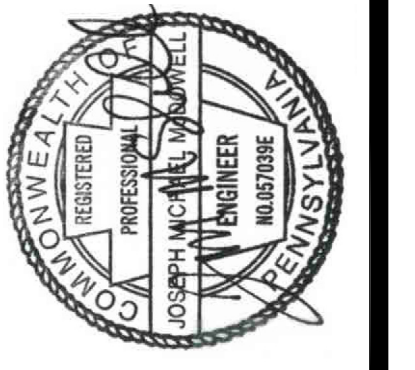
DRAWING NO.  
**C3**





**OVERALL SITE PLAN**  
Scale: 1"=400'

WATER TREATMENT FACILITY SITE



NO.	REVISION	DATE

OVERALL SITE PLAN  
WATER TREATMENT AND DISTRIBUTION SYSTEM  
GREATER GETTYSBURG DEVELOPMENT CO., LLC.

**MMI** martin and martin incorporated  
37 south main street • suite A  
chambersburg, pennsylvania • 17201  
phone: (717) 264-6759

PROJ. NO. 1250.6  
DATE: 07/07/17  
SCALE: 1"=400'

SCALE: 1"=400'  
0 200' 400' 600'

DESIGNER: J.M.  
CHECKER: J.M.  
DATE: 07/07/17

CADD FILE: 1250.6-02-C1.DWG  
DATE: 07/07/17  
SCALE: 1"=400'  
DRAWING NO. **C1**





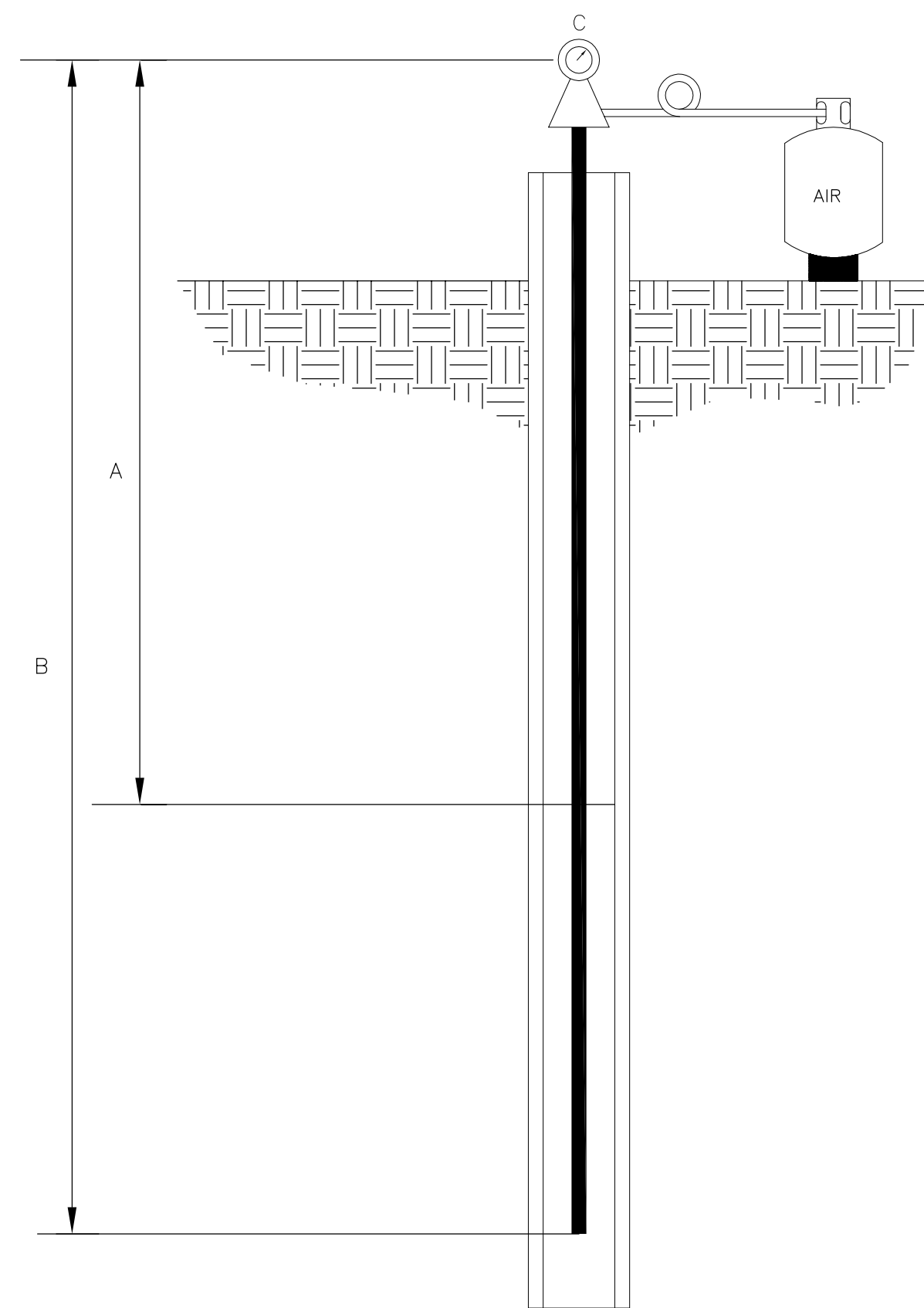
INSTALL 1/8" OR 1/4" TUBING LONG ENOUGH TO BE 10' TO 15' BELOW LOW WATER LEVEL. MEASURE THE TUBING LENGTH AS IT IS LOWERED INTO INTO THE WELL.

ONCE THE TUBING IS FIXED IN A STATIONARY POSITION AT THE TOP, CONNECT AN AIR LINE AND PRESSURE GAUGE. ADD AIR TO THE TUBING UNTIL THE PRESSURE GAUGE REACHES A POINT THAT IT DOESN'T READ ANY HIGHER. TAKE READING AT THIS POINT.

- A. DEPTH TO WATER (TO BE DETERMINED)
- B. TOTAL LENGTH OF AIR LINE (IN FEET)

C. WATER PRESSURE ON AIR TUBING. GAUGE READS IN POUNDS. CONVERT TO FEET BY MULTIPLYING BY 2.31

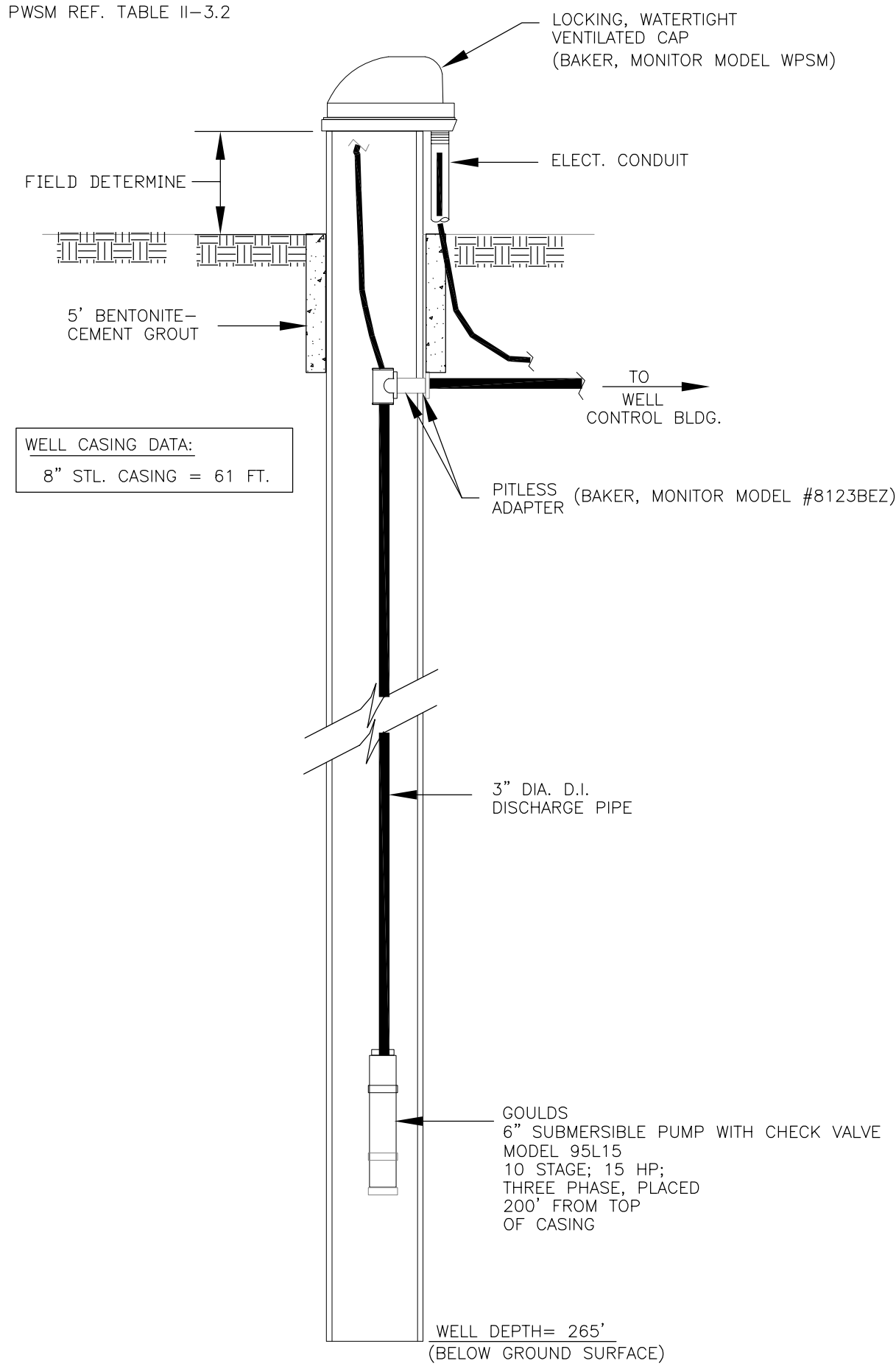
EXAMPLE:  
IF THE AIR TUBE IS 100' LONG AND THE PRESSURE GAUGE READS 20 LBS.  
 $20 \text{ LBS.} \times 2.31 = 46.2 \text{ FT.}$   
LENGTH OF TUBE = 100 FT.  
MINUS 46.2 FEET = 53.8 FT.  
DEPTH TO WATER (A) WOULD BE 53.8 FT.



**DETERMINING WATER LEVEL DETAIL**

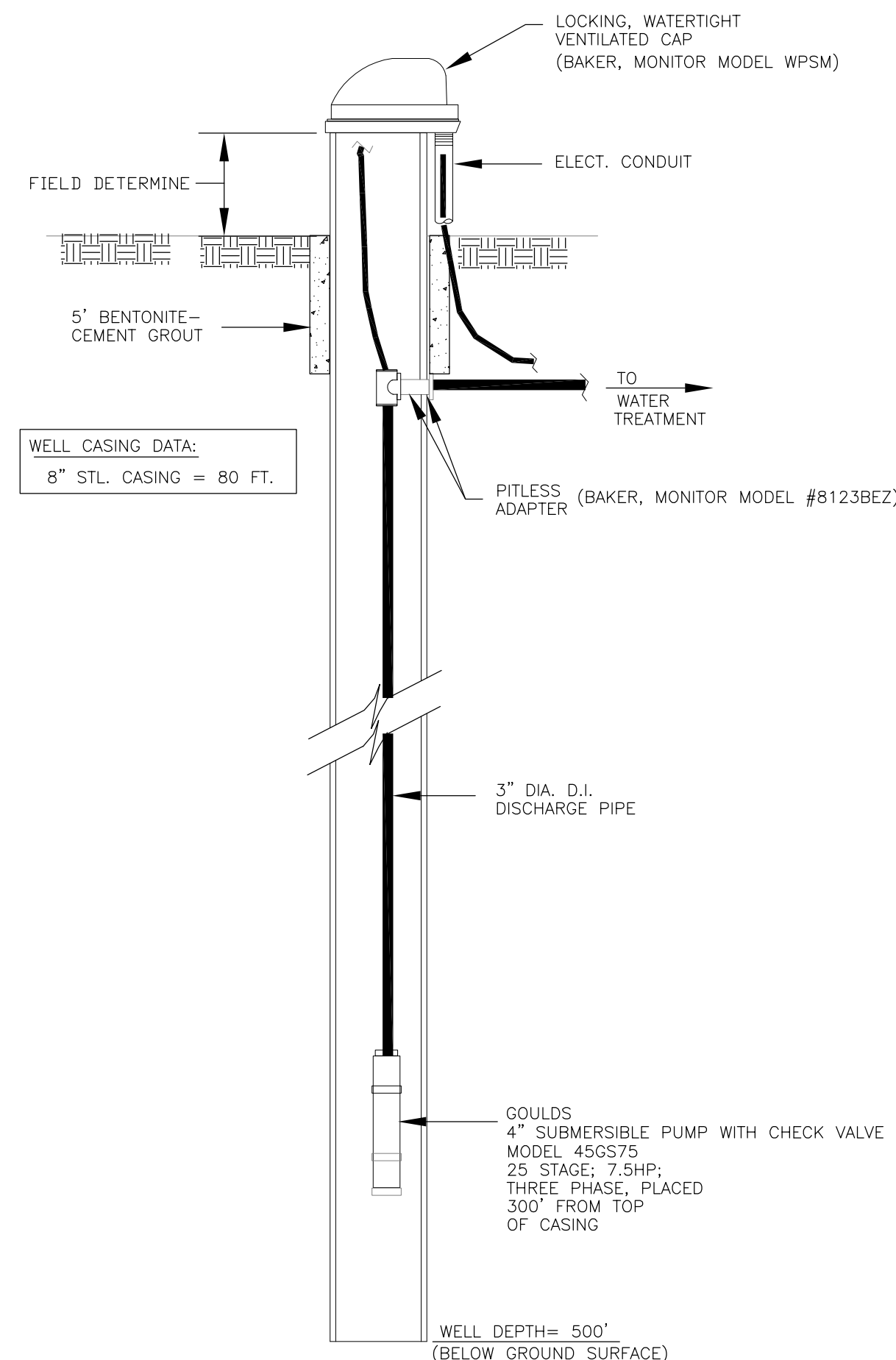
NOT TO SCALE

WELL NOTES:  
CASING OF EACH WELL TO BE IN ACCORDANCE WITH AWWA 100 STANDARDS AND PWSM REF. TABLE II-3.2

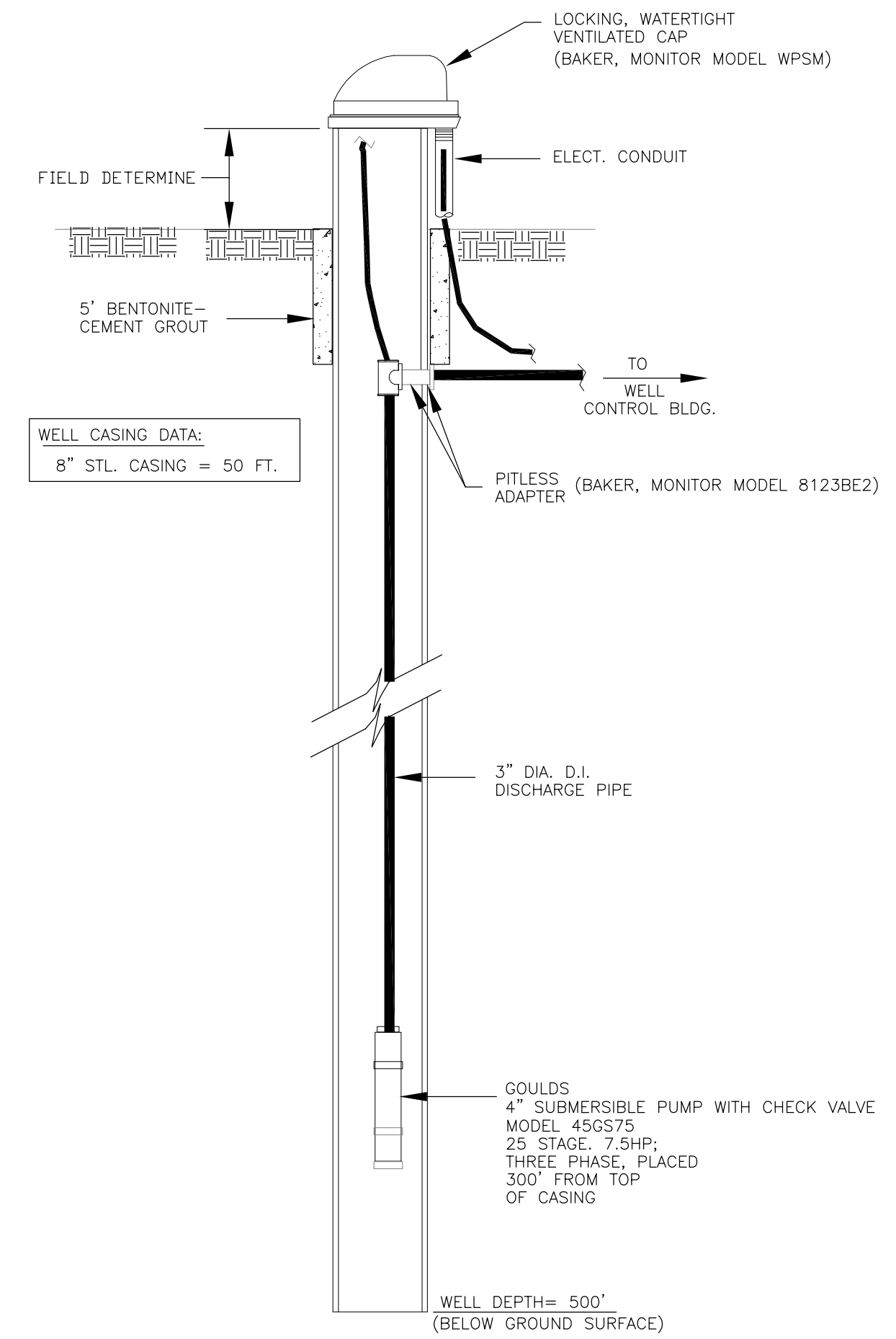


**PROPOSED PRODUCTION WELL # 1(105 GPM)**

NOT TO SCALE

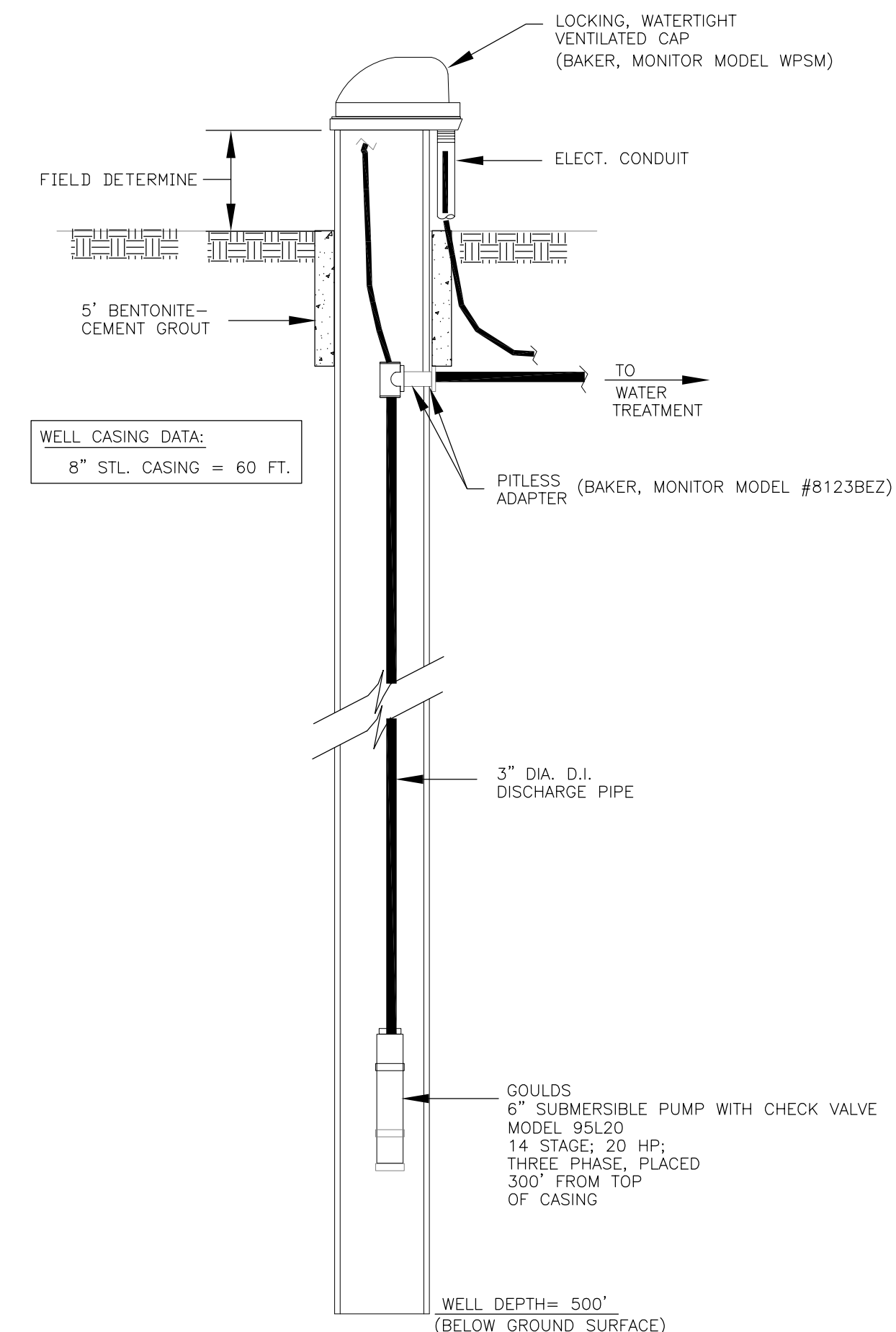


**PROPOSED PRODUCTION WELL # 3(55 GPM)**

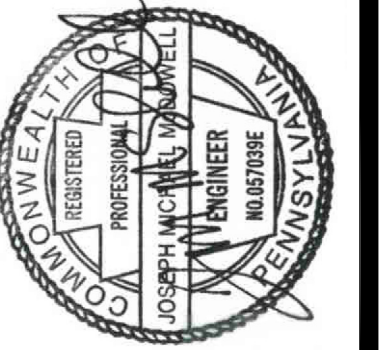


**PROPOSED PRODUCTION WELL # 2(55GPM)**

NOT TO SCALE



**PROPOSED PRODUCTION WELL # 4(105 GPM)**



DATE	
REVISION	
NO.	

ADAMS CO.  
**PROPOSED WELL DETAILS**  
**WATER TREATMENT AND DISTRIBUTION SYSTEM**  
 GREATER GETTYSBURG DEVELOPMENT CO., LLC.

STRUBBART TWP.  
 martin and martin incorporated  
 phone: (717) 37 south main street • suite A  
 264--6759 chambersburg, pennsylvania . 17201  
 PROJ. NO. 1250.6  
 DWN. BY: DB  
 CHK. BY: JM  
 SCALE: AS NOTED

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 DATE: 07/07/17  
 SCALE: AS SHOWN  
 DRAWING NO.

**W1**



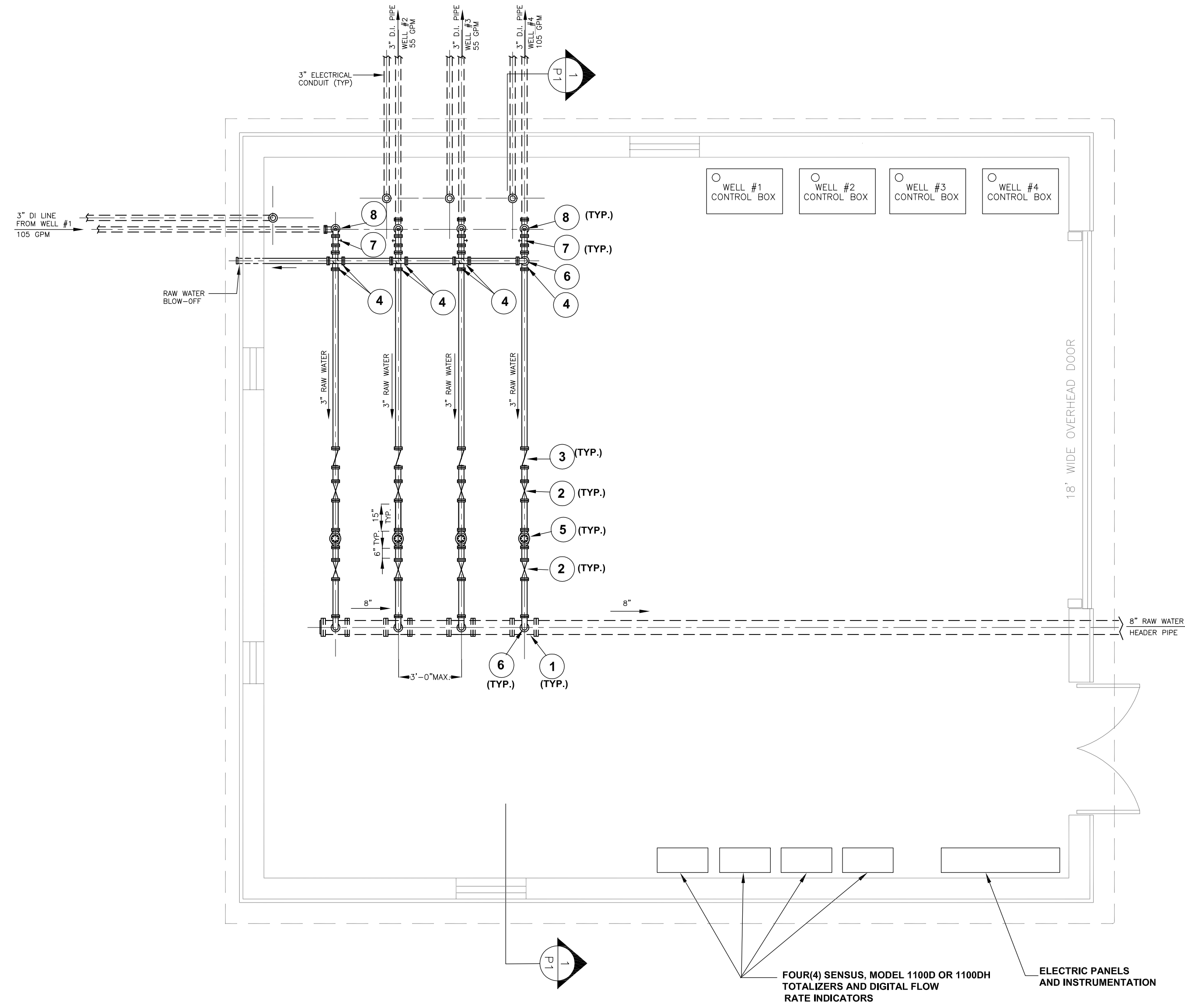










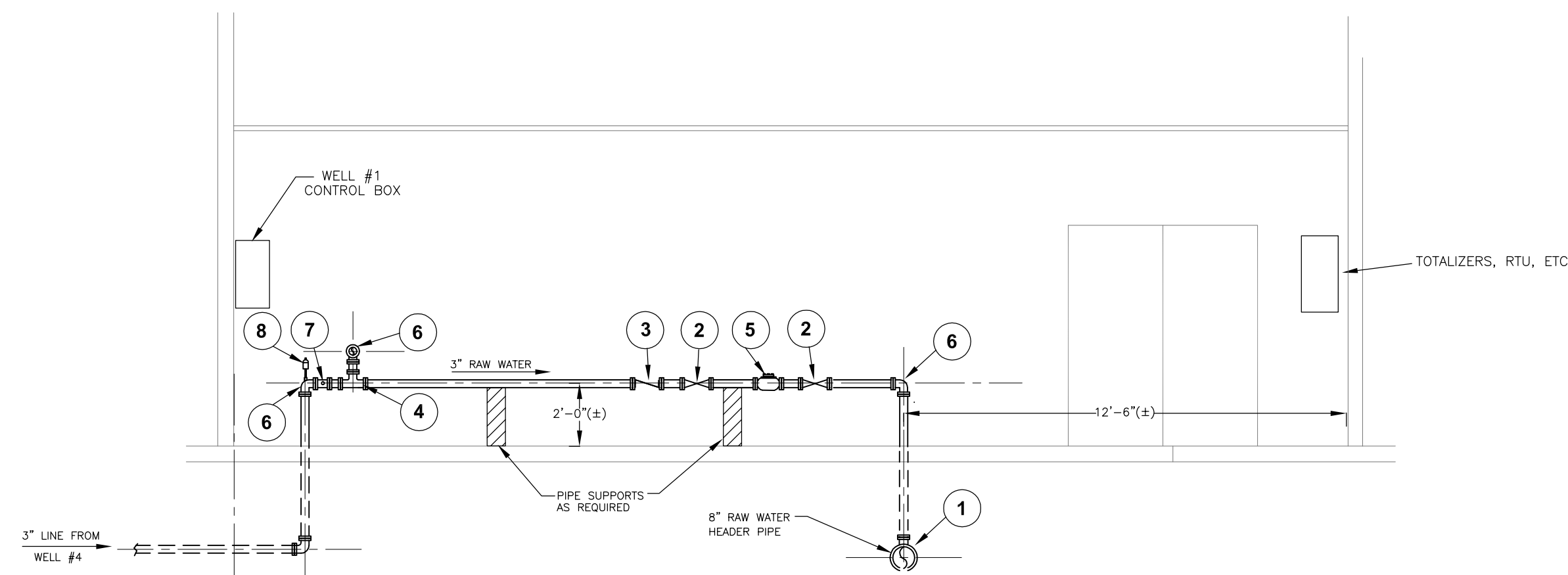


**LIST OF FITTINGS**

- ① 8" X 8" X 3" TEE
- ② 3" GATE VALVE (AMERICAN FLOW CONTROL)
- ③ 3" CHECK VALVE (G.A. INDUSTRIES)
- ④ 3" X 3" X 3" TEE
- ⑤ 3" WATER METER (SENSUS MODEL W-350 DRS TURBO METER)
- ⑥ 3" 90° ELBOW
- ⑦ RAW WATER TAP
- ⑧ AIR RELEASE VALVE (VAL-MATIC)

**PIPING PLAN**

SCALE: 1/4" = 1'-0"



**SECTION**

SCALE: 1/4" = 1'-0" ① P1

**WELL CONTROL BUILDING**

**PIPING PLAN AND SECTIONS**

**WATER TREATMENT AND DISTRIBUTION SYSTEM**  
 GREATER GETTYSBURG DEVELOPMENT CO., LLC.

NO.	REVISION	DATE

ADAMS CO. STRUBAN TYP.

**MMI** martin and martin incorporated  
 37 south main street • suite A  
 chambersburg, pennsylvania • 17201  
 phone: (717) 264-6759

PROJ. NO. 1250.6  
 DESN. BY: J/M  
 DRAW. BY: DB  
 CHK. BY: J/M  
 SCALE: AS NOTED

CADD FILE: 1250.6-10-P2.DWG  
 DATE: 07/07/17  
 SCALE: AS SHOWN

DRAWING NO. **P2**

PLOT DATE:









