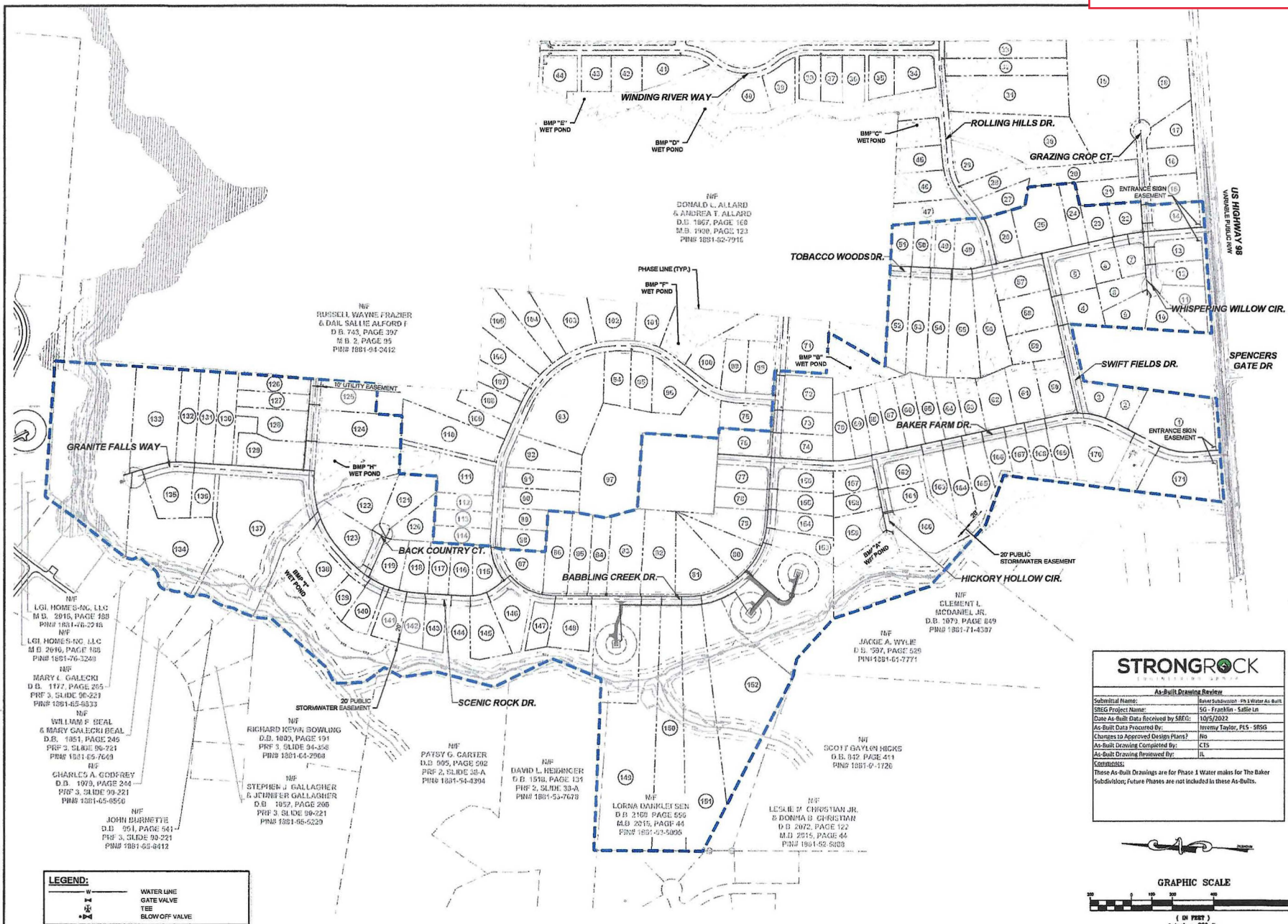


STRONGROCK
ENGINEERING GROUP
10000 FALLS OF NEUSE RD., SUITE 100, RALEIGH, NC 27615, USA
919.871.1234

STRONGROCK PROJECT	W1300 Sub 97
NOTATION	AS BUILT
SCALE	AS SHOWN
DESIGNED BY	JAN
DRAWN BY	SSD
CHECKED BY	JAN

BAKER SUBDIVISION
YOUNGSLVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
OVERALL UTILITY ASBUILTS PLAN

DRAWING
SHEET
C-1.0





GROUP
COMPANY LICENSE # P-2166
JAN 23 2024

DRAWING
SHEET
C-1.1

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Jan 23 2024



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ENGINEERING GROUP
6801 FALLS OF NEUSE RD. SUITE 100 RALEIGH, NC 27615-1000
TEL: 919.486.1000 FAX: 919.486.1001
WWW.STRONGROCK-ENG.COM

STANDARD PROJECT	NOTATION	DATE
CONSTRUCTION	AS SHOWN	03/06/2023
DESIGNED BY	JAN	
DRAWN BY	JAN	
CHECKED BY	JAN	

BAKER SUBDIVISION
YOUNGSHIRE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PARTIAL UTILITY LAYOUT II

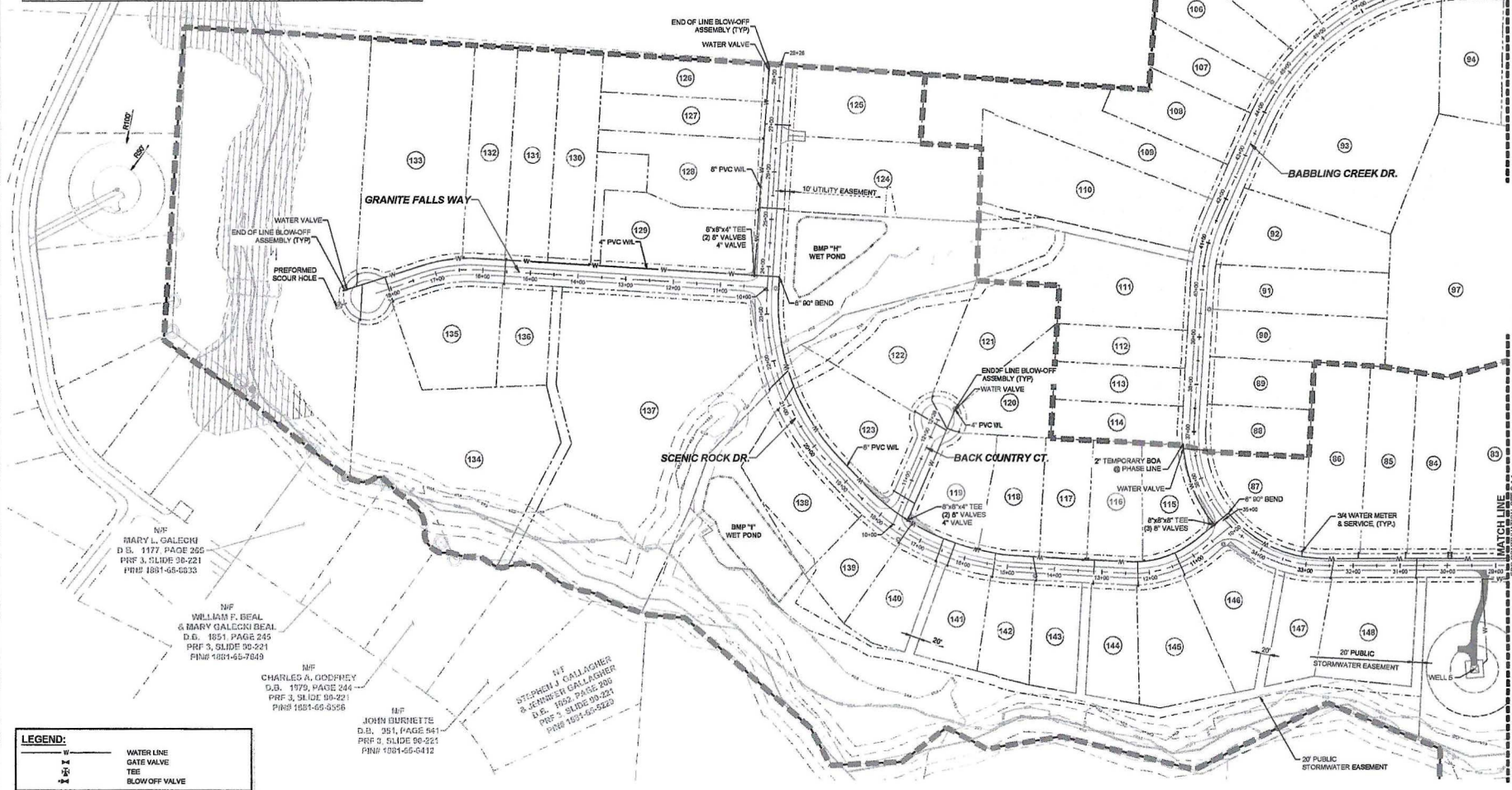
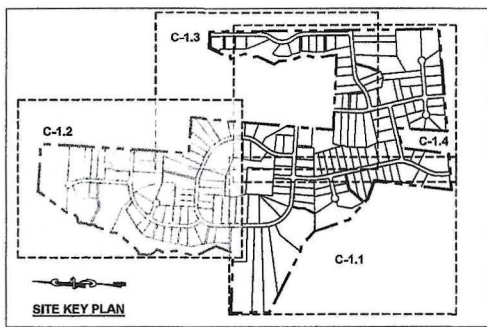
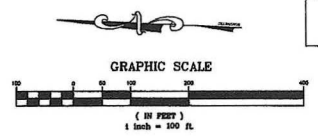
DRAWING SHEET
C-1.2

03 OF 19

STRONGROCK
ENGINEERING GROUP

As-Built Drawing Review	
Isomathical Review:	Review Conducted: 03/06/2023
SEOG Project Name:	565 Franklin - Saddle Ln.
Date As-Built Data Received by SEOG:	10/5/2022
As-Built Data Prepared By:	Jeremy Taylor, PLS, SEOG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CTS
As-Built Drawing Reviewed By:	IL
Comments: These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision. Future Photos are not included in these As-Built.	

BY
RUSSELL W. FRAZIER
A. STATE OF NORTH CAROLINA
D.B. 743, PAGE 397
E.L. 2, PAGE 95
PENG 100124-3412



LEGEND:	
	WATER LINE
	GATE VALVE
	TEE
	BLOW-OFF VALVE

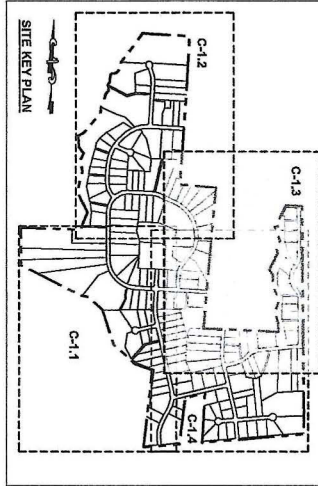
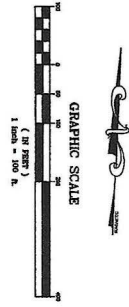
N/P
MARY L. GALECKI
D.B. 1177, PAGE 260
PRF 3, SLIDE 30-221
PENG 1001-65-0033

N/P
WILLIAM F. BEAL
& MARY GALECKI BEAL
D.B. 1051, PAGE 245
PRF 3, SLIDE 30-221
PENG 1001-65-7049

N/P
CHARLES A. GODFREY
D.B. 1075, PAGE 244
PRF 3, SLIDE 30-221
PENG 1001-65-0056

N/P
JOHN BURDETTE
D.B. 351, PAGE 541
PRF 3, SLIDE 30-221
PENG 1001-65-0412

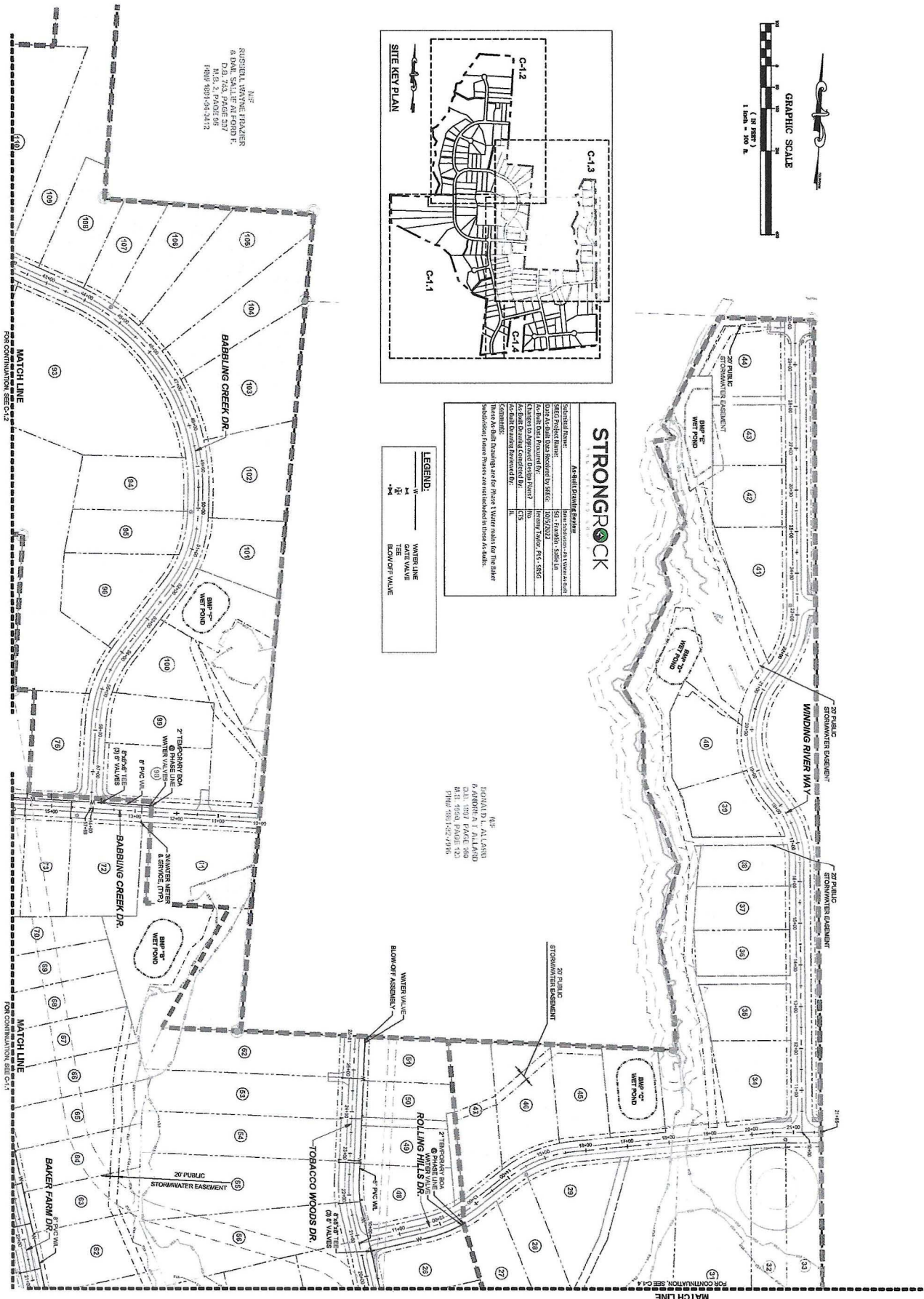
N/P
STEPHEN J. GALLAGHER
& JENNIFER GALLAGHER
D.B. 1004, PAGE 209
PRF 3, SLIDE 30-221
PENG 1001-65-0223



STRONGROCK	
AS-BUILT DRAWING REVIEW	
STANDARD PROJECT:	BAKER SUBDIVISION, PARTIAL UTILITY LAYOUT III
DATE OF REVIEW:	02/02/2024
DATE AS-BUILT DATA PROVIDED BY:	10/02/2023
AS-BUILT DATA PROVIDED BY:	WINDY HILLS, P.C., SBOG
CHANGES TO APPROVED DESIGN (N/A):	NO
CHANGES TO APPROVED DESIGN (N/A):	NO
AS-BUILT DATA PROVIDED BY:	WINDY HILLS, P.C., SBOG
AS-BUILT DATA PROVIDED BY:	WINDY HILLS, P.C., SBOG
Comments:	
These As-Built Drawings are for Phase 1 Water Utility for the Baker Subdivision. Future Phases are not included in these As-Built.	

LEGEND:	
	WATER LINE
	OPEN WATER VALVE
	BLOW OFF VALVE

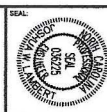
NOTED:
KIMBERLY L. ALLEN
P.E.
0211 0007 PAGE 69
0211 0008 PAGE 123
PUB. 0011 0202-0916



STRONG ROCK PROJECT	
NOT FOR CONSTRUCTION	
SCALE:	AS SHOWN
DRAWN BY:	JWA
CHECKED BY:	JWA

BAKER SUBDIVISION
YOUNGSHVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PARTIAL UTILITY LAYOUT III

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NO.	REVISIONS	DATE	BY

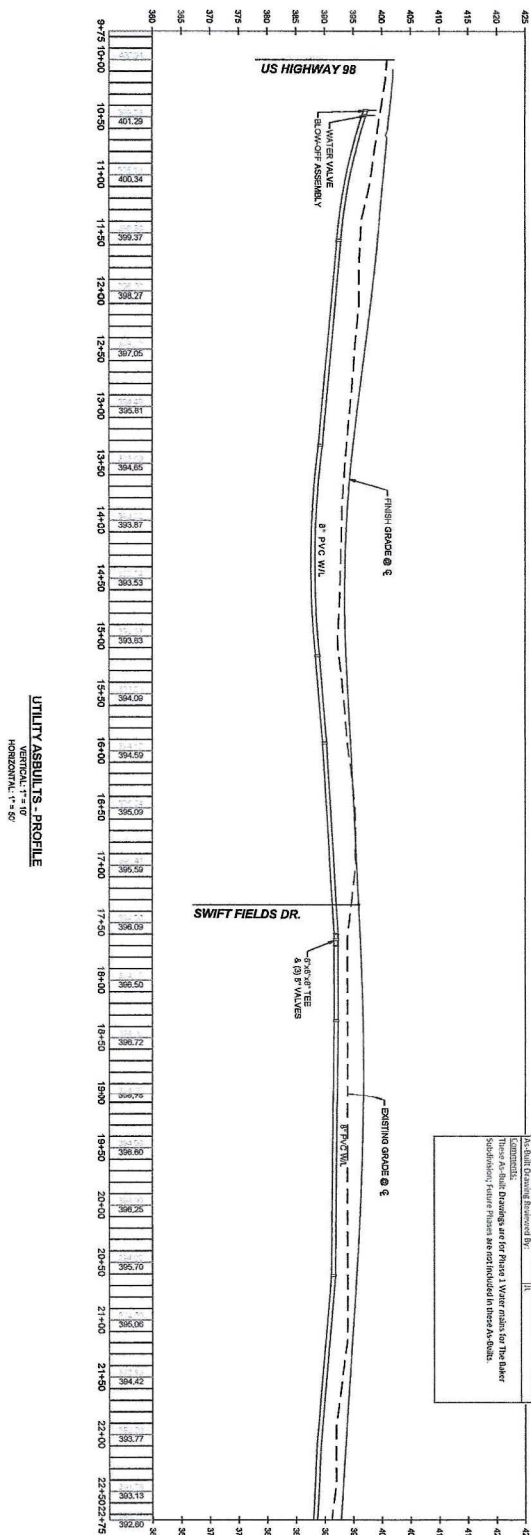
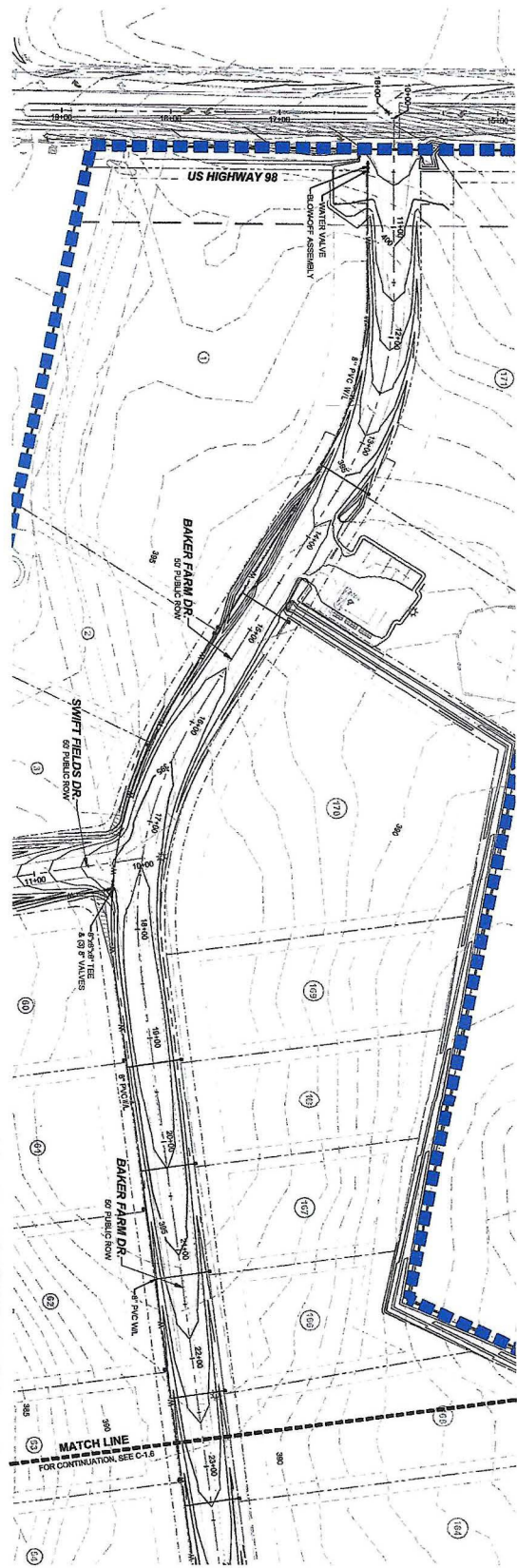
04 OF 19
C-1.3
DRAWING SHEET



BAKER SUBDIVISION
DUNGSVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
PARTIAL UTILITY LAYOUT IV

**DRAWING
SHEET**

C-1.4



UTILITY ASBUILTS - PLAN

STRONGROCK
A-1-Built Overlaid Granular

GRAPHIC SCALE

1 inch = 50 ft.

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31



No.	REVISIONS		DATE	BY	

PROGRESS PLAT DATE 01/06/2023

UTILITY ASBULTS - PROFILE

VERTICAL: $1^\circ = 10'$
HORIZONTAL: $1^\circ = 60'$

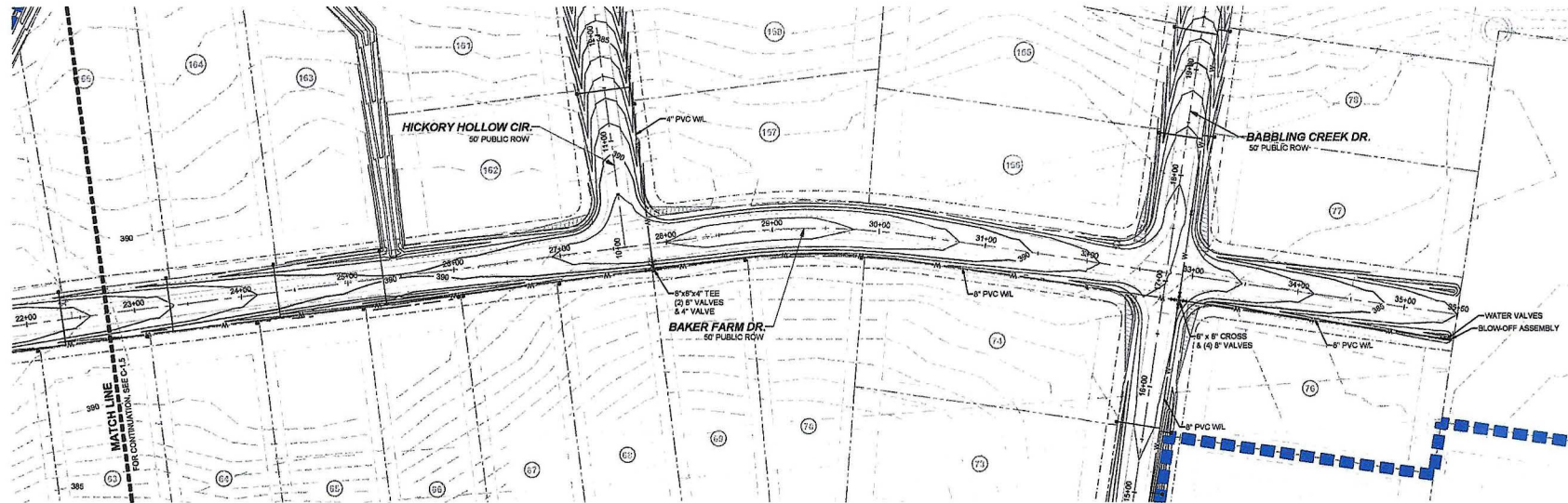
DRAWING
SHEET
C-1.5
06 OF 1

C-1.5

06 OF 19

BAKER SUBDIVISION
YOUNGVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**UTILITY ASBUILTS - PLAN &
PROFILE**

STRONG ROCK PROJECT	
NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	JWL
DRAWN BY	SRG
CHECKED BY	JM

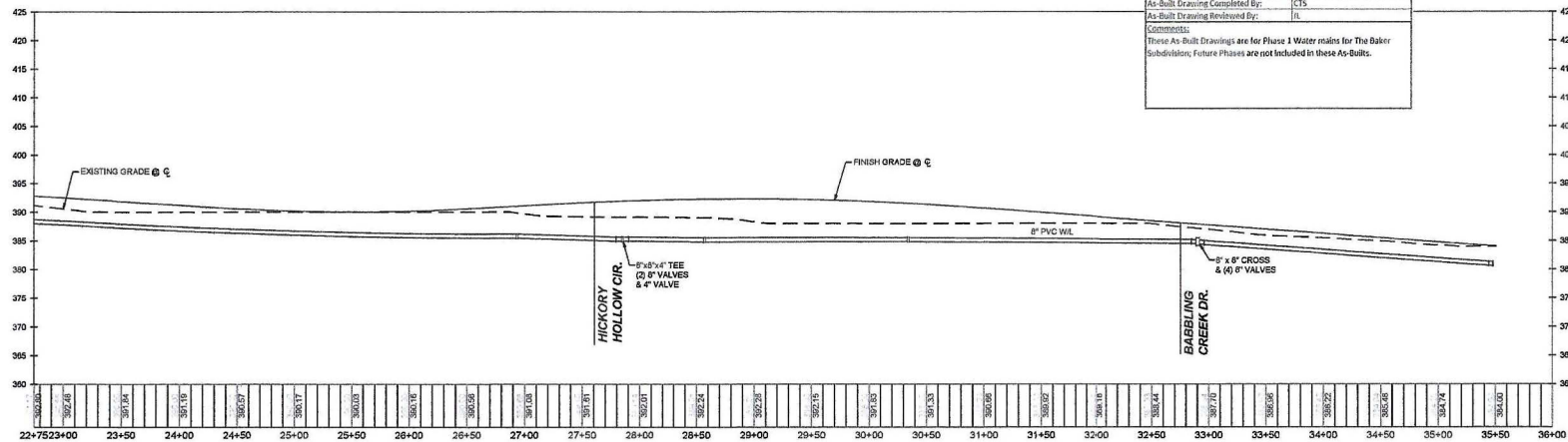
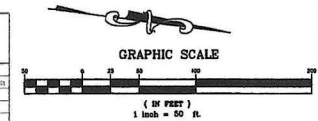


UTILITY AS-BUILTS - PLAN
HORIZONTAL: 1" = 50'

STRONGROCK
ENGINEERING GROUP

As-Built Drawing Review	
Submitted Name:	Baker Subdivision - Ph 1 Water As-Built
SITEG Project Name:	SG - Franklin - Sallio Ln
Date As-Built Data Received by SITEG:	10/5/2022
As-Built Data Provided By:	Jeremy Taylor, PLS - SITEG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CTS
As-Built Drawing Reviewed By:	RL

Comments:
These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision. Future Phases are not included in these As-Built.



UTILITY AS-BUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

BAKER SUBDIVISION
YOUNGVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY AS-BUILTS - PLAN & PROFILE

DRAWING SHEET
C-1.6

07 OF 19

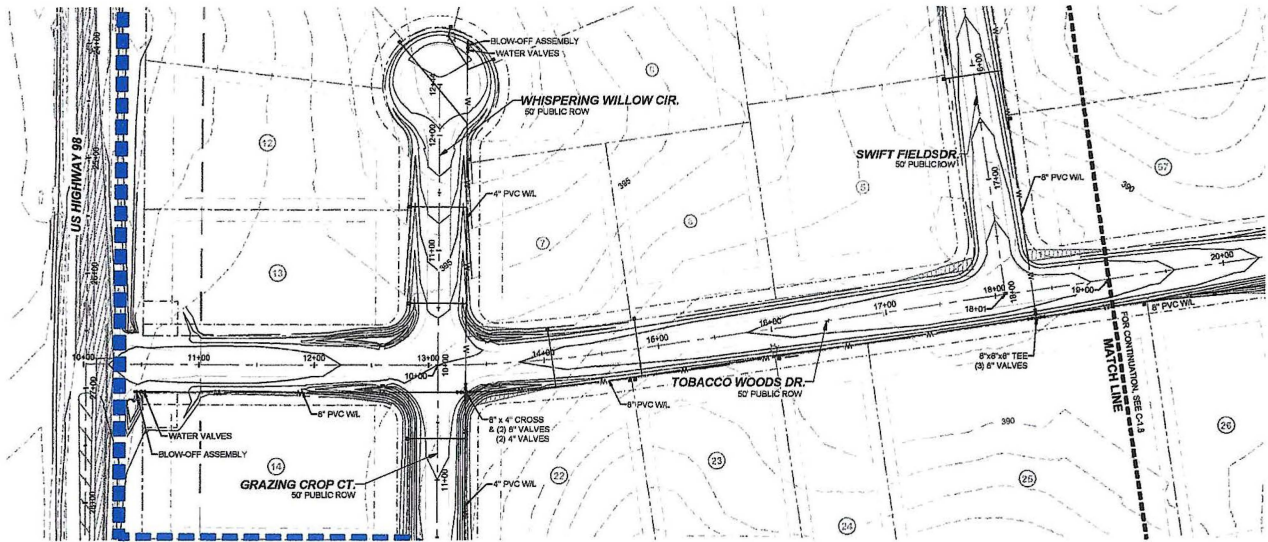


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6501 FALLS OF NEUSE RD. SUITE 108 FALLEN, NC 27515
6601 FALLS OF NEUSE RD. SUITE 108 FALLEN, NC 27515

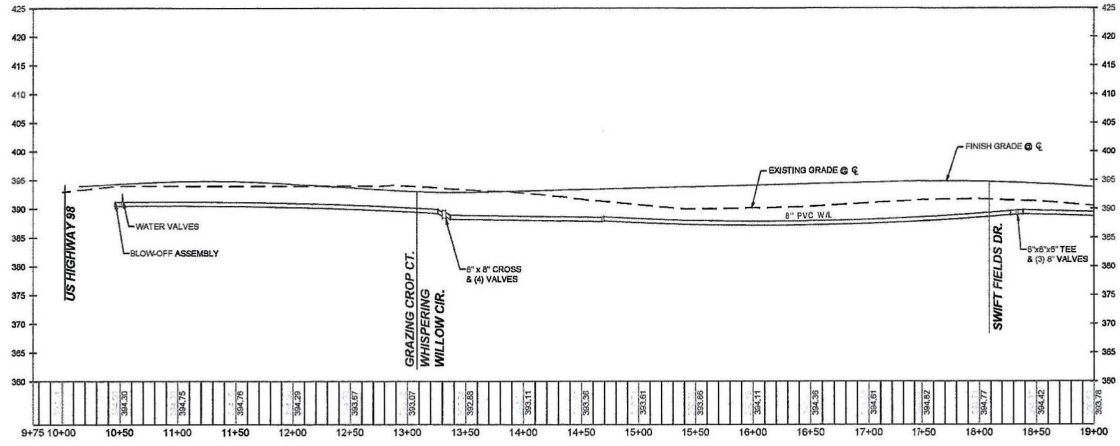
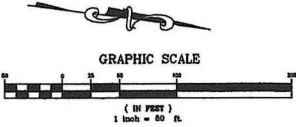
STRONGROCK PROJECT	DATE	BY	CHKD BY
NOTED FOR CONSTRUCTION	10/5/2022	AS BROWN	AS BROWN
DESIGNED BY	JAN	DESIGNED BY	JAN
DRAWN BY	CTS	DRAWN BY	CTS
CHECKED BY	JAN	CHECKED BY	JAN

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Jan 23-2024



UTILITY ASBUILTS - PLAN
HORIZONTAL: 1" = 50'



UTILITY ASBUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

As-Built Drawing Review	
Submitted Name:	Index Submittal - PH 1 Water As-Built
SREG Project Name:	SG - Franklin - Sallie Ln
Date As-Built Data Received by SREG:	10/5/2022
As-Built Data Procured By:	Jeremy Taylor, PLS - SREG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CTS
As-Built Drawing Reviewed By:	JL
Comments:	
These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision; Future Phases are not included in these As-Built.	

STANDARD PROJECT	NOT FOR CONSTRUCTION	SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

BAKER SUBDIVISION
YOUNGVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY ASBUILTS - PLAN & PROFILE

DRAWING SHEET
C-1.7

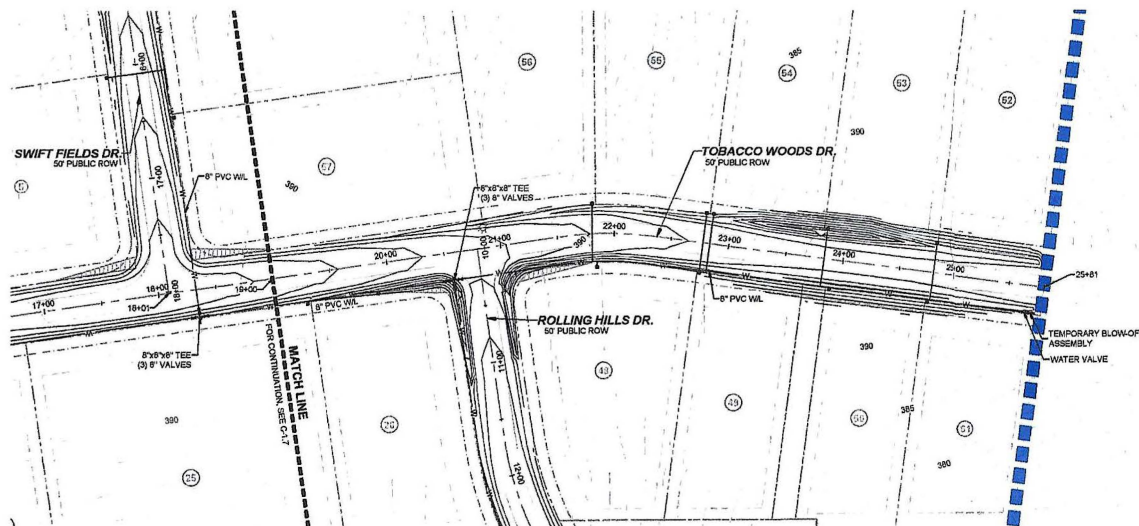
08 OF 19



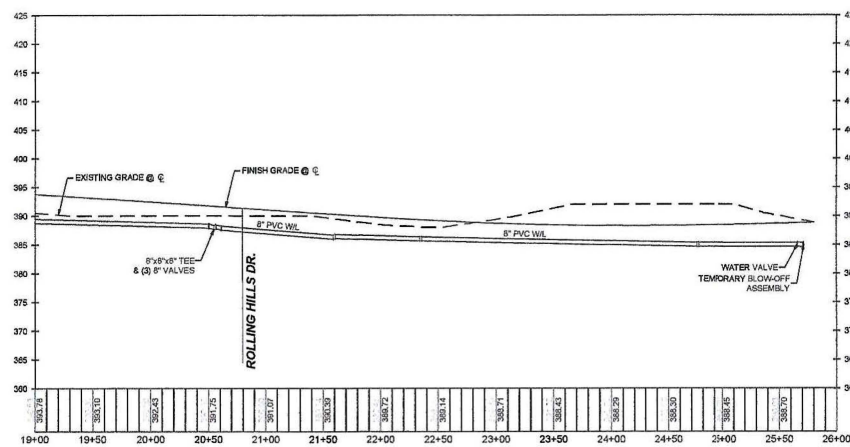
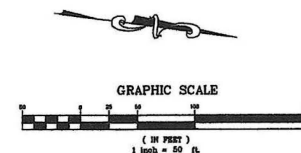
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www.strongrockeng.com

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Jan 23 2024



UTILITY ASBUILTS - PLAN
HORIZONTAL: 1" = 50'



UTILITY ASBUILTS - PROFILE
HORIZONTAL: 1" = 50'

STRONGROCK	
ENGINEERING GROUP	
As-Built Drawing Review	
Submitted Name:	Baker Subdivision - Ph 1 Water As-Built
SREG Project Name:	SG - Franklin - Sallie Ln
Date As-Built Data Received by SREG:	10/5/2022
As-Built Data Prepared By:	Jeremy Taylor, PLS - SREG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CIS
As-Built Drawing Reviewed By:	JL
Comments:	
These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision; Future Phases are not included in these As-Built.	

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ENGINEERING GROUP

6501 FALLS OF NEUSE RD. SUITE 100 RALEIGH, NC 27615

BAKER SUBDIVISION

YOUNGSHIRE, FRANKLIN COUNTY, NORTH CAROLINA

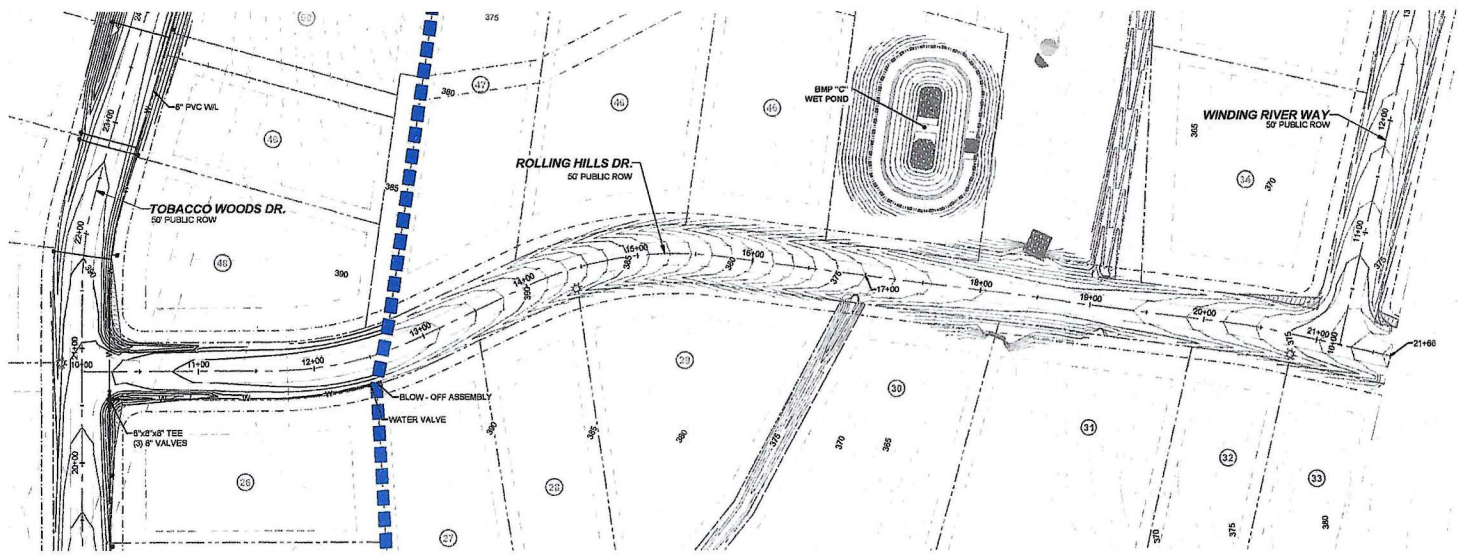
CONSTRUCTION PLANS

UTILITY ASBUILTS - PLAN & PROFILE

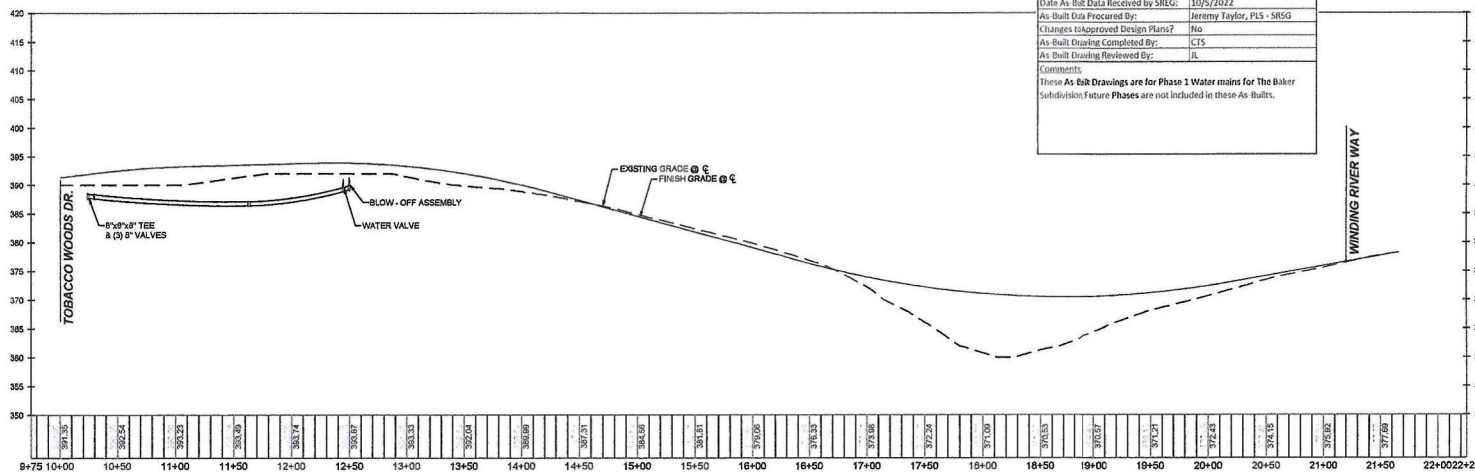
DRAWING SHEET

C-1.8

09 OF 19

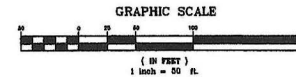


UTILITY ASBUILTS - PLAN
HORIZONTAL: 1" = 50'



UTILITY ASBUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

STRONGROCK	
ENGINEERING GROUP	
As-Built Drawing Review	
Submitted Name:	Baker Subdivision - Ph 1 Water As-Built
SNEG Project Name:	SG - Franklin - Sallen Ln
Date As-Built Data Received by SNEG:	10/5/2022
As-Built Data Provided By:	Jeremy Taylor, PLS - SNEG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CTS
As-Built Drawing Reviewed By:	JL
Comments:	
These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision. Future Phases are not included in these As-Built.	



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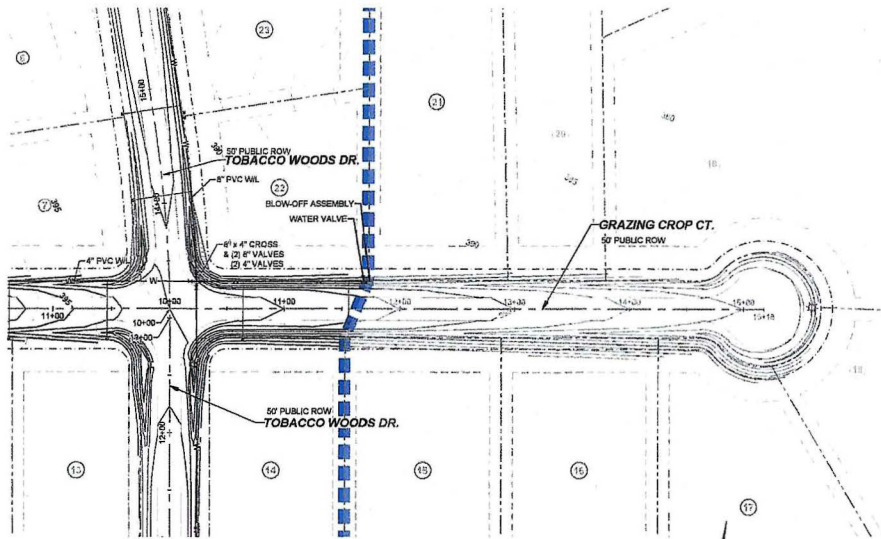
6801 FALLS OF NATURE RD, SUITE 100, RALEIGH, NC 27615

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YOUNGSMVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY ASBUILTS - PLAN & PROFILE

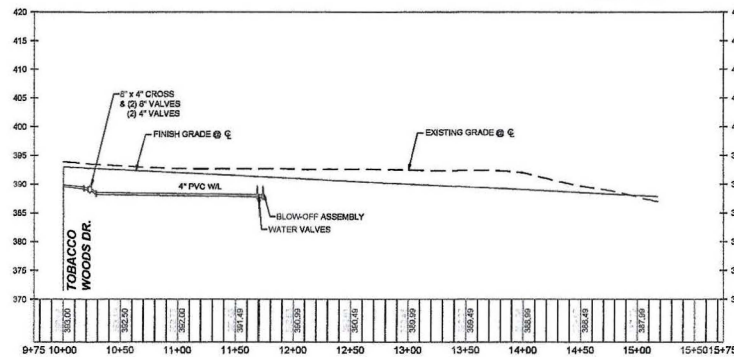
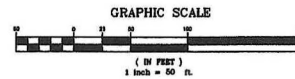
DRAWING
SHEET
C-1.9

10 OF 19

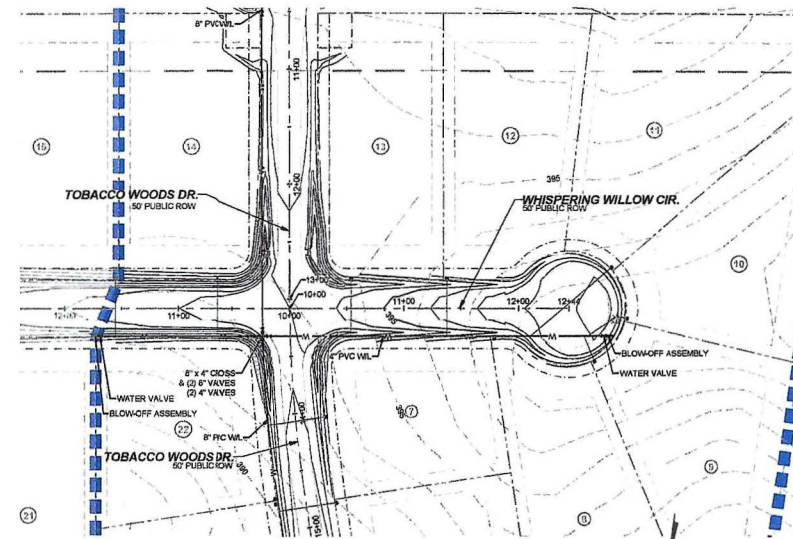
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Jan 23 2024



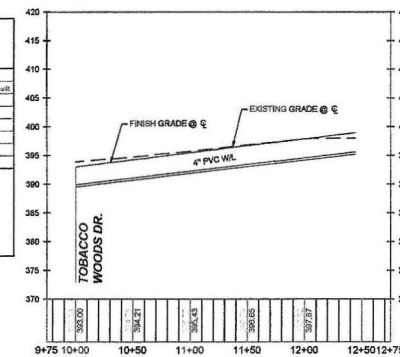
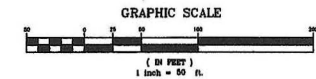
UTILITY AS-BUILTS - PLAN
HORIZONTAL: 1" = 50'



UTILITY AS-BUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'



UTILITY AS-BUILTS - PLAN
HORIZONTAL: 1" = 50'



UTILITY AS-BUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

As-Built Drawing Review	
Submitted Name:	StrongRock Engineering Group, P.C.
SMEG Project Name:	SG - Franklin - Sully Ln
Date As-Built Data Received by SMEG:	10/5/2022
As-Built Data Prepared By:	Jeremy Taylor, PLS - SRSG
Charges to Approved Design Plans?	No
As-Built Drawing Completed By:	CIS
As-Built Drawing Reviewed By:	IL
Comments:	
These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision. Future Phases are not included in these As-Built.	



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ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, P.C. COMPANY LICENSE NO. 0000000000
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YOUNGSHIRE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY AS-BUILTS - PLAN & PROFILE

DRAWING SHEET
C-1.10

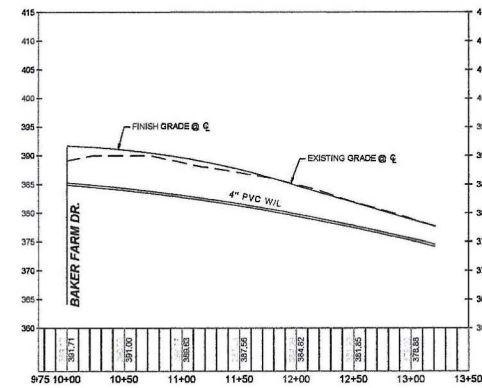
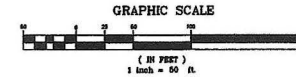
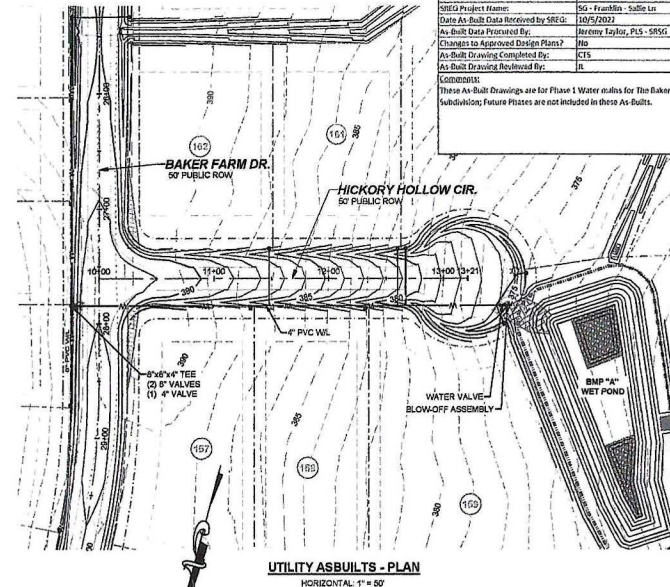
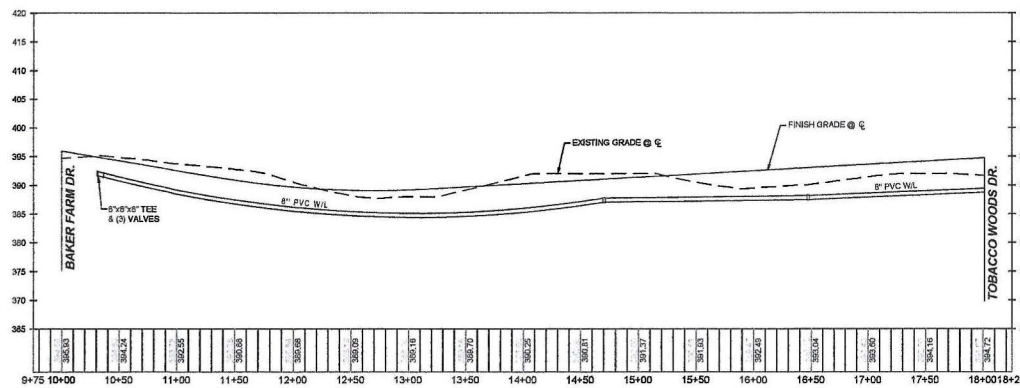
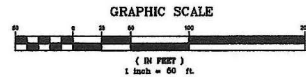
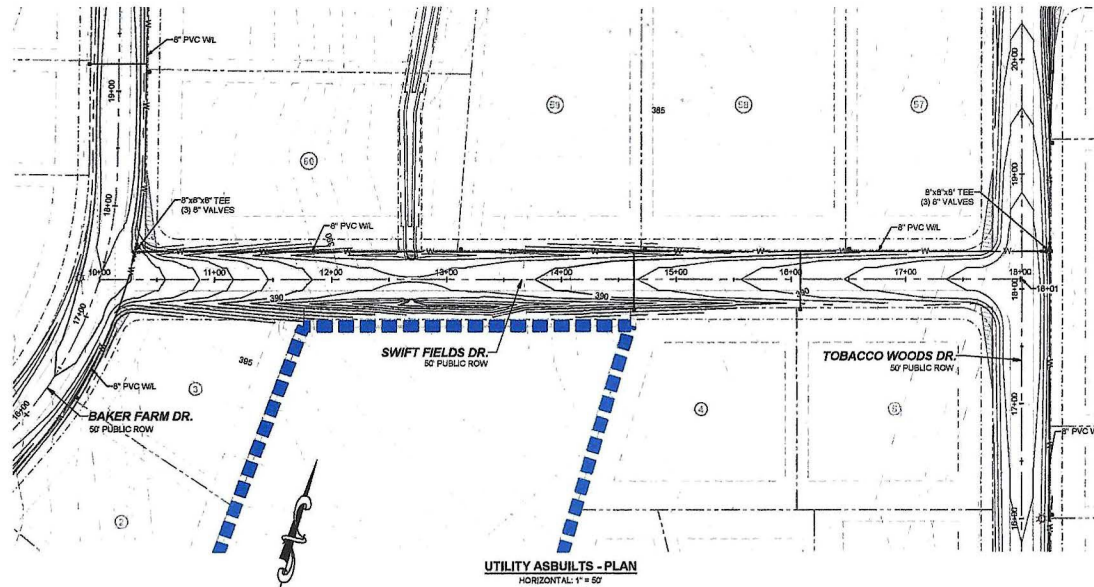
11 OF 19

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Jan 23, 2024

STRONGROCK ENGINEERING GROUP

As-Built Drawing Review	
Submitted Name:	James L. Johnson, Jr. 1/10/2023
SEEG Project Name:	SG - Franklin - Sub 97
Date As-Built Data Received by SEEG:	10/5/2022
As-Built Data Provided by:	Jeremy Taylor, PLS - SHS
Changes to Approved Design Plans?	No
As-Built Drawing Completed by:	CTS
As-Built Drawing Reviewed by:	JS
Comments:	
These As-Built Drawings are for Phase 1 Water studies for The Baker Subdivision; Future Phases are not included in these As-Built.	

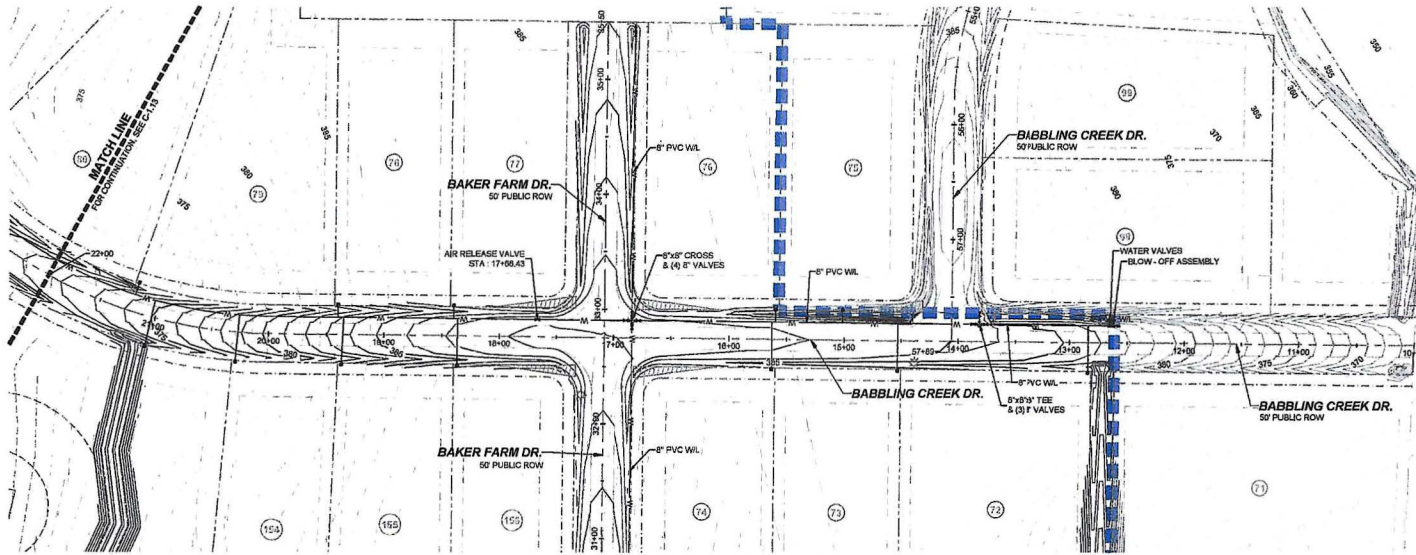


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ENGINEERING GROUP
100 ANSON LANE, SUITE 100, FARMERSVILLE, NC 27834
6001 FALLS OF NEUSE RD. SUITE 100, FARMERSVILLE, NC 27834

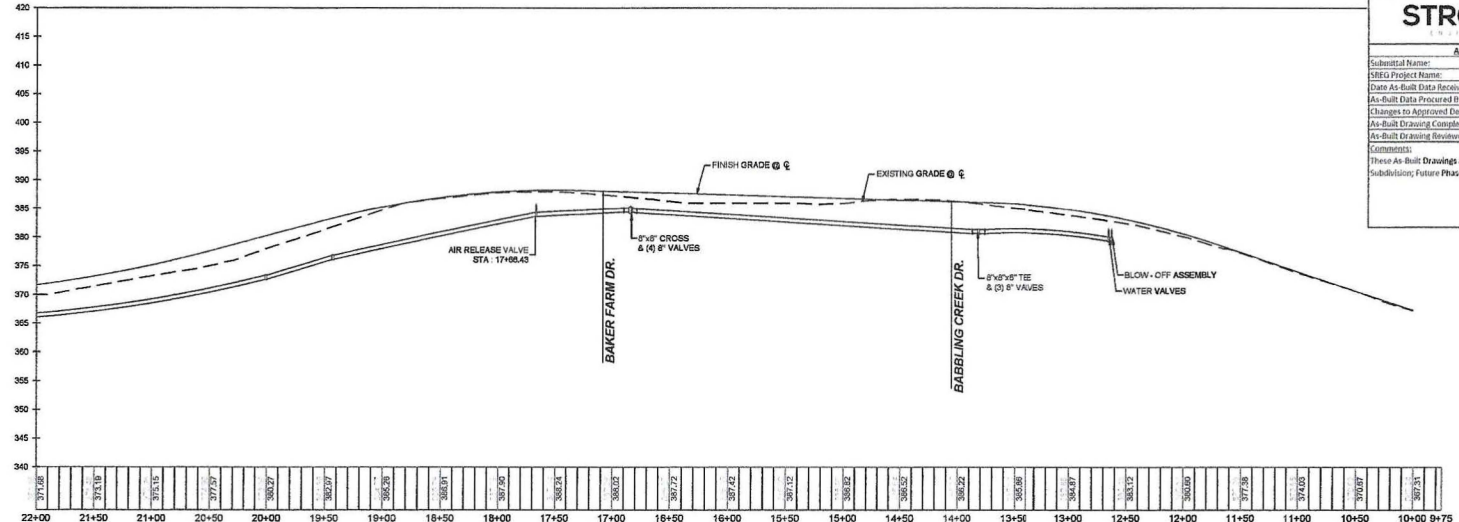
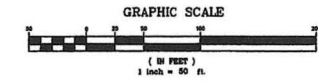
STRONGROCK PROJECT	NOTED FOR CONSTRUCTION	SCALE	AS SHOWN	DATE	BY	CHECKED BY

BAKER SUBDIVISION
YOUNGVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY ASBUILTS - PLAN & PROFILE

DRAWING SHEET
C-1.11



UTILITY ASBUILTS - PLAN
HORIZONTAL: 1" = 50'



UTILITY ASBUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

STRONGROCK
ENGINEERING GROUP

As-Built Drawing Review

Submitted Name:	Baker Subdivision - Ph 1 Water As-Built
SRG Project Name:	NO - Franklin - Subline Ln
Drawn As-Built Data Received by SRG:	10/15/2022
As-Built Data Provided by:	Jeremy Taylor, PLS - SRG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CTS
As-Built Drawing Reviewed By:	JA
Comments:	These As-Built Drawings are for Phase 1 Water mains for the Baker Subdivision. Future Phases are not included in these As-Built.

STANDARD	NOT FOR CONSTRUCTION	SCALE	AS SHOWN	DATE	BY	CHK	APP

BAKER SUBDIVISION
YOUNGVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY ASBUILTS - PLAN & PROFILE

DRAWING SHEET
C-1.12

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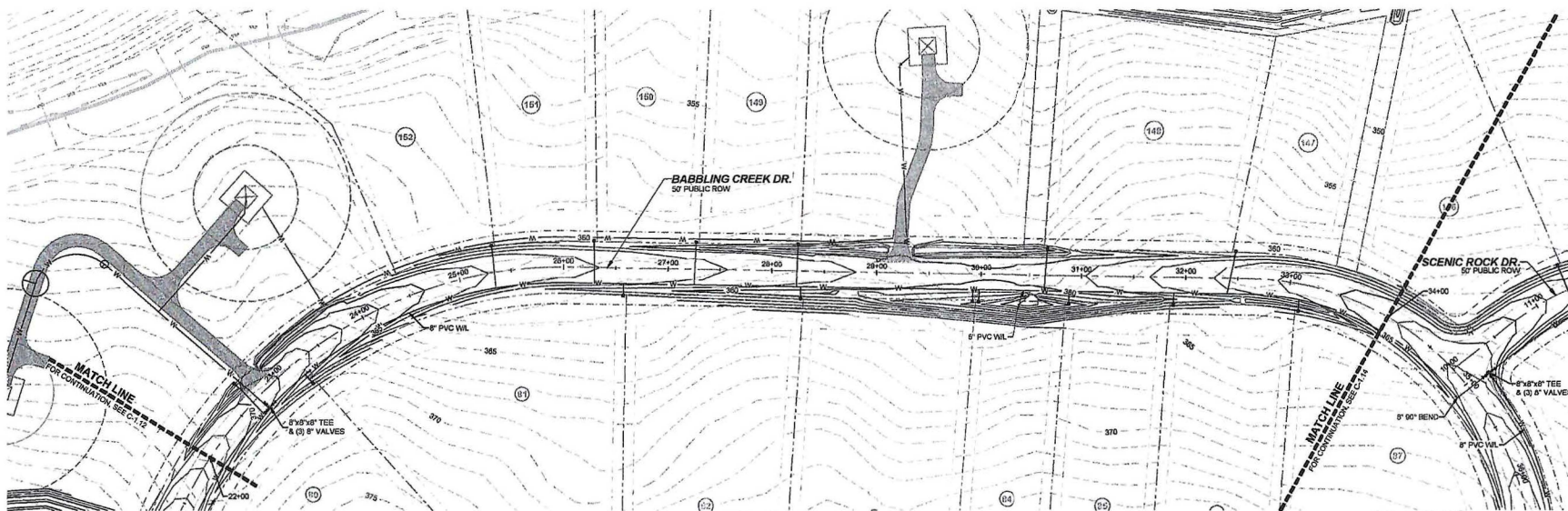
STRONGROCK ENGINEERING GROUP

8601 FALLS OF NEUSE RD. SUITE 100 RALEIGH, NC 27615
919.875.1000
WWW.STRONGROCK-NC.COM

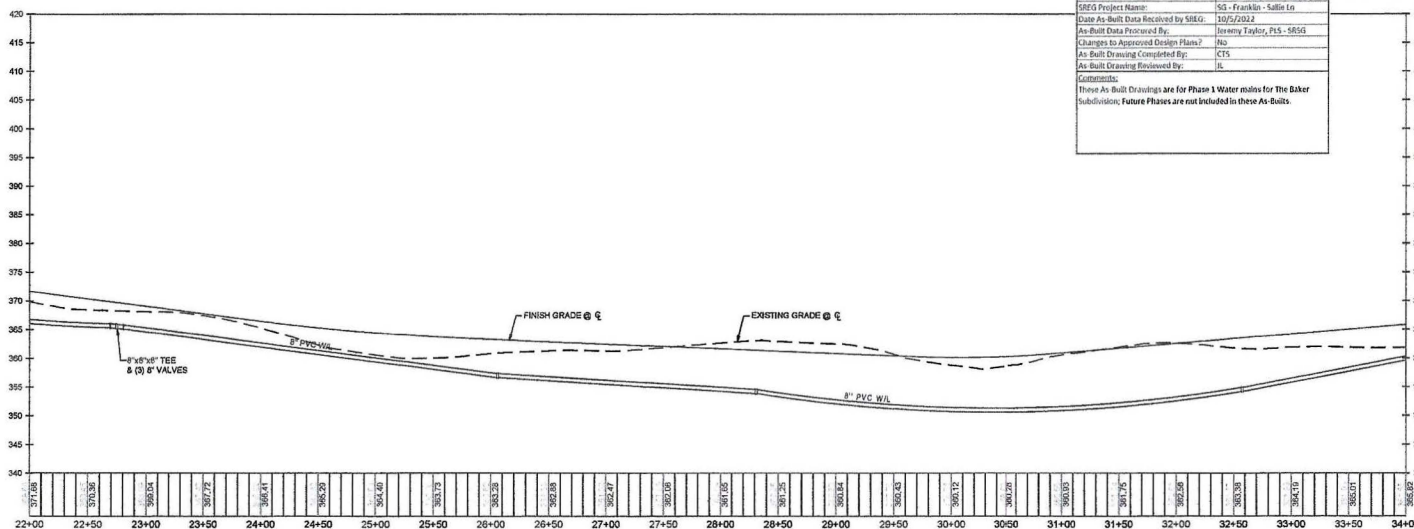
STRONGROCK ENGINEERING GROUP

BAKER SUBDIVISION
YOUNGVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY ASBUILTS - PLAN & PROFILE

DRAWING SHEET
C-1.12

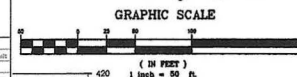


UTILITY ASBUILTS - PLAN
HORIZONTAL: 1" = 50'



UTILITY ASBUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

STRONGROCK	
As-Built Drawing Review	
Submittal Number:	Baker Subdivision - Phase 1 Water As-Built
SRG Project Name:	SR - Franklin - Sallin Ln
Date As-Built Data Received by SRG:	10/5/2022
As-Built Data Provided By:	Jeremy Taylor, PLS - SRG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CTS
As-Built Drawing Reviewed By:	JS
Comments:	
These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision; Future Phases are not included in these As-Built.	



STRONGROCK
ENGINEERING GROUP

STRONG ROCK ENGINEERING GROUP, P.L.L.C. COMPANY LICENSE NO. 20041
8801 FALLS OF REESE TEL DATE: 01/23/2024

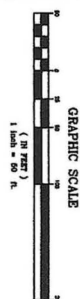
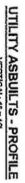
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BAKER SUBDIVISION
YOUNGSVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY ASBUILTS - PLAN & PROFILE

STRONG ROCK PROJECT
NOT FOR CONSTRUCTION
SCALE: AS SHOWN
DESIGNED BY: JNL
DRAWN BY: JNL
CHECKED BY: JNL

DRAWING SHEET
C-1.13

14 OF 19

[illegible]

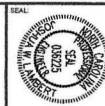
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NOT FOR CONSTRUCTION	
SCALE	AS SHOWN
DESIGNED BY	JWL
DRAWN BY	SRG
CHECKED BY	JWL

BAKER SUBDIVISION
YOUNGSVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
**UTILITY ASBUILTS - PLAN &
PROFILE**

DRAWING
SHEET
C-1.14

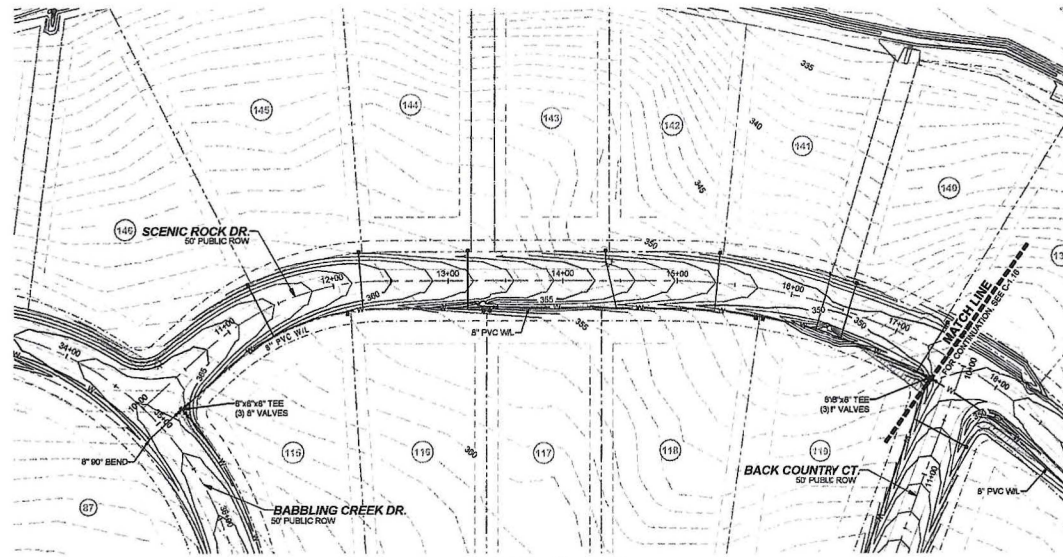
15 OF 15

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
6501 FALLS OF NEUSE RD, SUITE 108 RALEIGH, NC 27615 | JOSH@STRONGROCKENGINEERING.COM

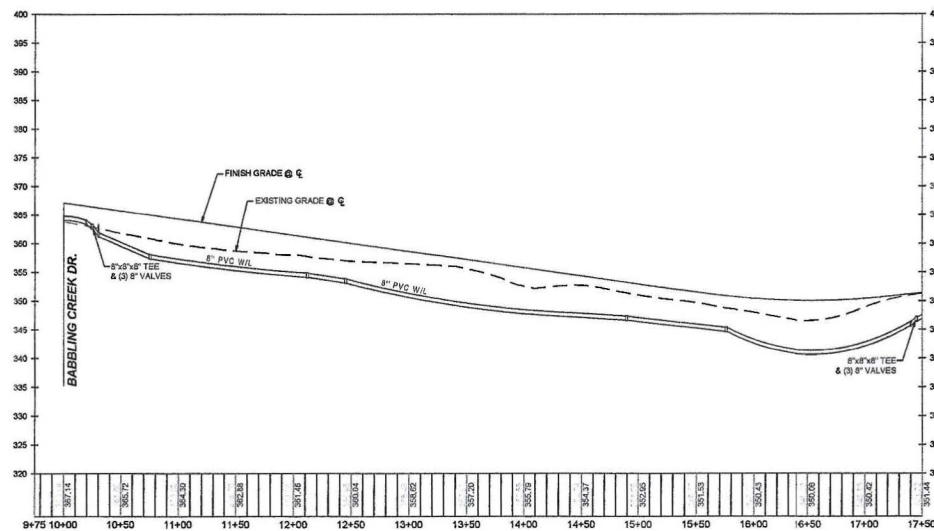
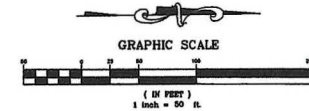


No.	REVISIONS	DATE	BY

PROGRESS PLOT DATE: 03/08/2022



UTILITY ASBUILTS - PLAN
HORIZONTAL: 1" = 50'



UTILITY ASBUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

STRONGROCK
ENGINEERING GROUP

As-Built Drawing Review	
Submitted Name:	Baker Subdivision - PH 1 Water As-Built
SREG Project Name:	SG - Franklin - Saddle Ln
Date As-Built Data Received by SREG:	10/5/2022
As-Built Data Procured By:	Jeremy Taylor, PLS - SREG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CTS
As-Built Drawing Reviewed By:	JS
Comments:	
These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision; Future Phases are not included in these As-Built.	

STANDARD	NOT FOR CONSTRUCTION	SCALE	AS SHOWN	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
					JAN	JAN	JAN

BAKER SUBDIVISION
YOUNGVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY ASBUILTS - PLAN & PROFILE

DRAWING SHEET

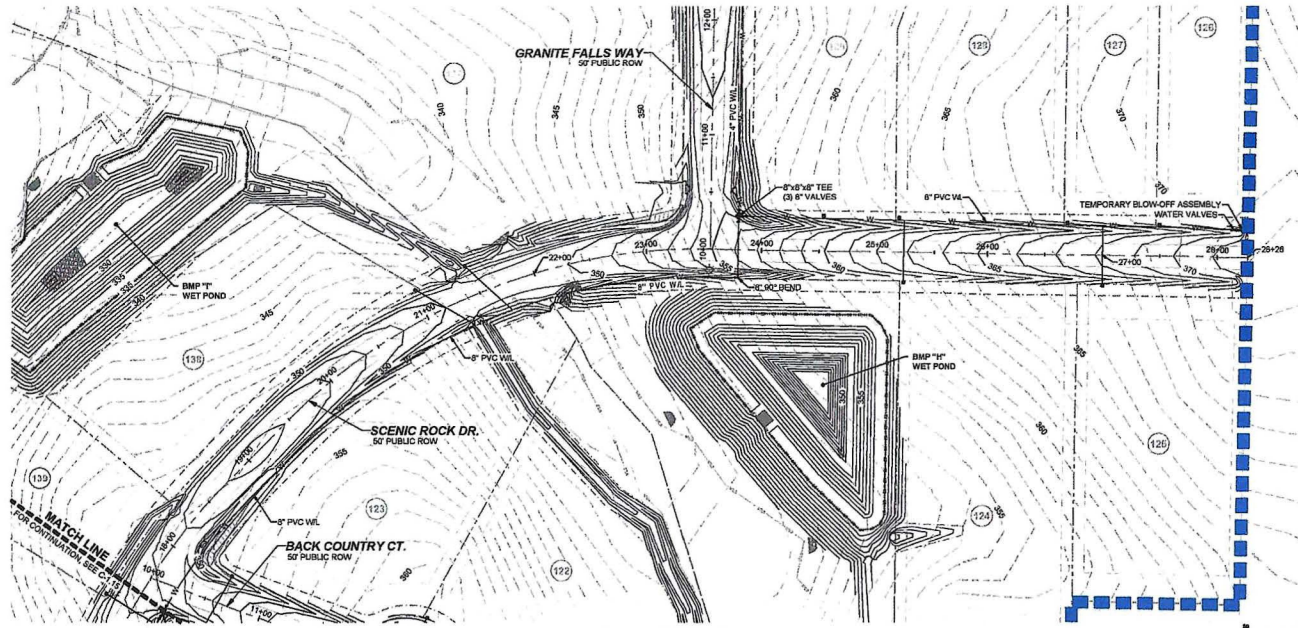
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16 OF 15

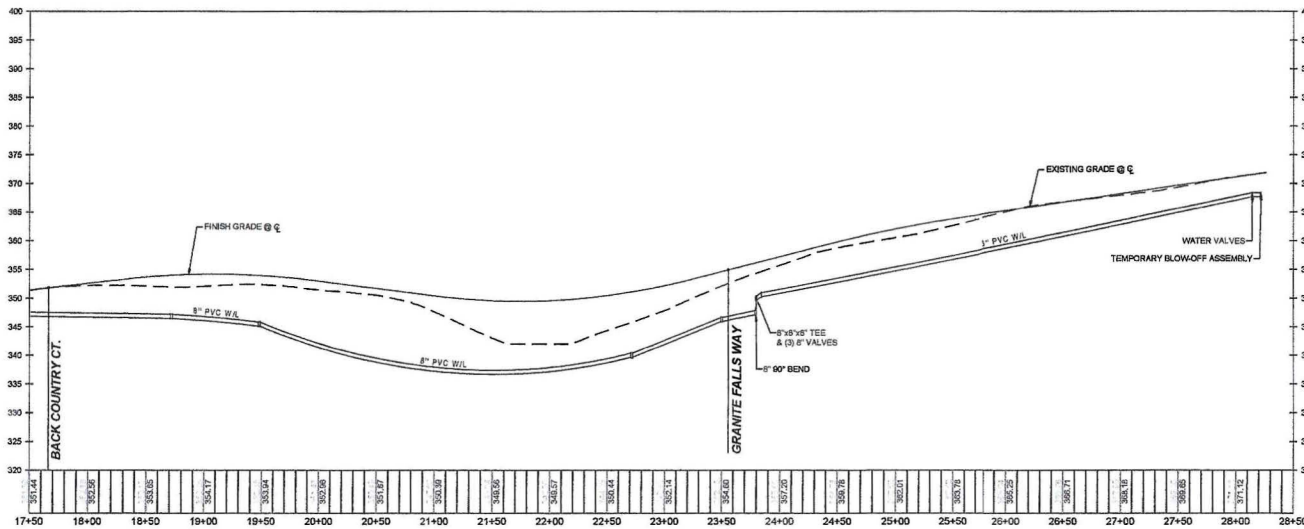
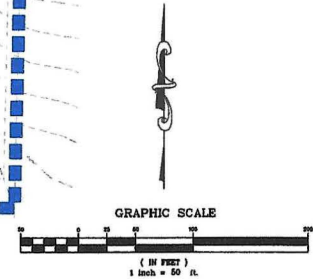
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JAN 23 2024





UTILITY ASBUILTS - PLAN
HORIZONTAL: 1" = 50'



UTILITY ASBUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

STRONGROCK
ENGINEERING GROUP

10000 W. LAMBERT BLVD. SUITE 200
MEMPHIS, TN 38125

As-Built Drawing Review

Submitted Name:	Same Submission - No 1 Water As-Built
2023 Project Name:	100 - Franklin - 10000 W
Date As-Built Data Received by MEG:	10/5/2022
As-Built Data Provided By:	Jeremy Taylor, PLS - SRSU
Changes to Approved Design Plans?	Yes
As-Built Drawing Completed By:	ETS
As-Built Drawing Reviewed By:	JA

Comments:
These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision; Future Phases are not included in these As-Builts.

STRONGROCK
ENGINEERING GROUP

10000 W. LAMBERT BLVD. SUITE 200
MEMPHIS, TN 38125

BAKER SUBDIVISION
YOUNGVILLE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY ASBUILTS - PLAN &
PROFILE

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6501 FALLS OF HOUSE RD. SUITE 108 RALEIGH, NC 27615

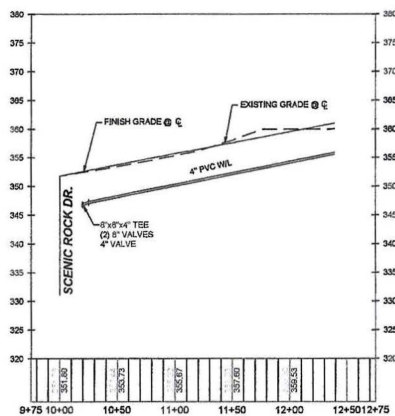
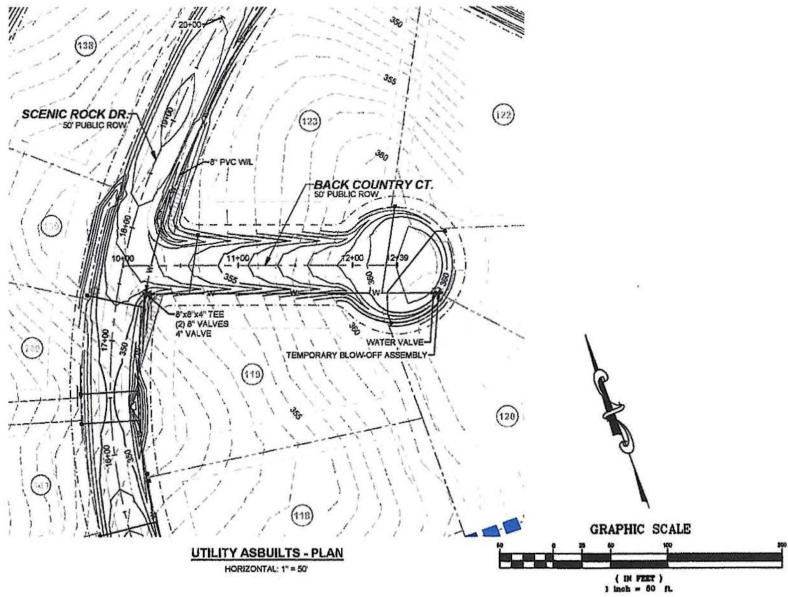
STRONGROCK ENGINEERING GROUP

BAKER SUBDIVISION
YOUNGSHIRE, FRANKLIN COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY ASBUILTS - PLAN & PROFILE

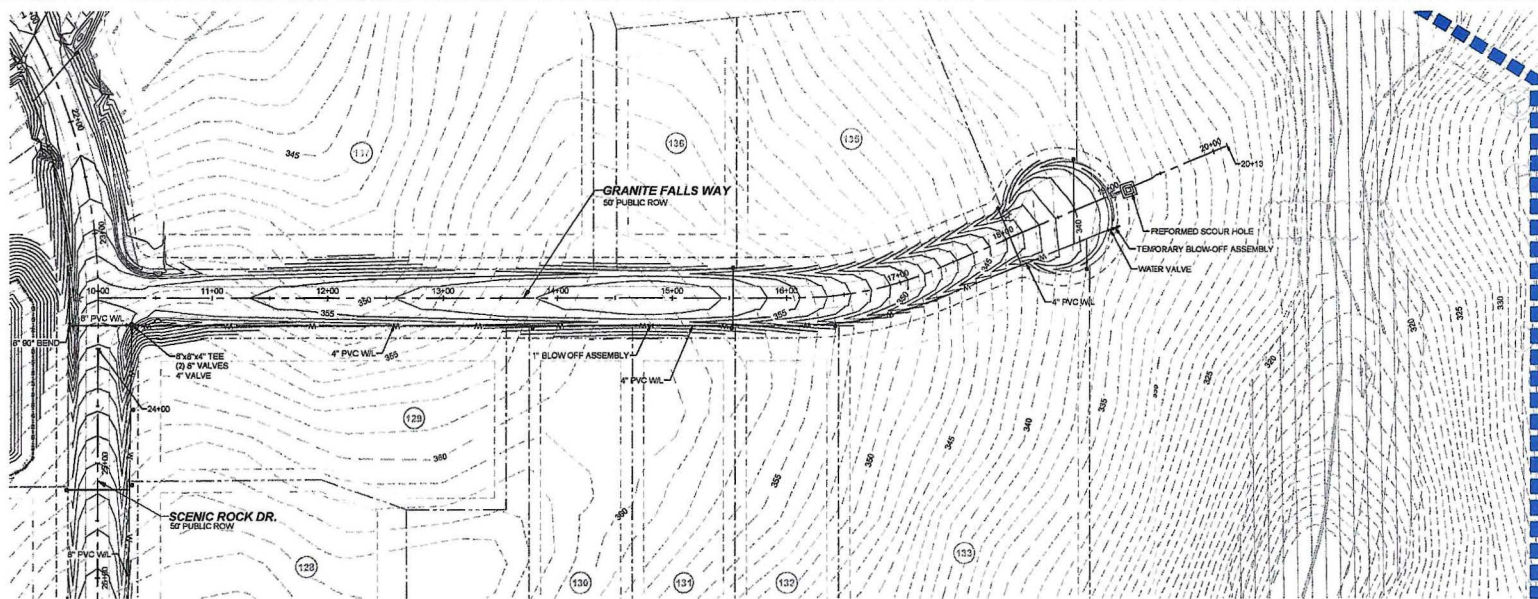
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18 OF 19

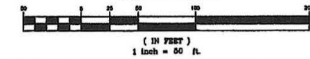


As-Built Drawing Review	
Submitted Name:	Baker Subdivision - Phase 1 Water Main
SHEET Project Name:	W1300 - Franklin - Sella Ln
Date As-Built Data Received by SREG:	10/25/2023
As-Built Data Provided By:	Jeremy Taylor, PLS - SREG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CTS
As-Built Drawing Reviewed By:	RL
Comments:	These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision/Phase 1 are not included in these As-Built.



UTILITY ASBUILTS - PLAN
HORIZONTAL: 1" = 50'

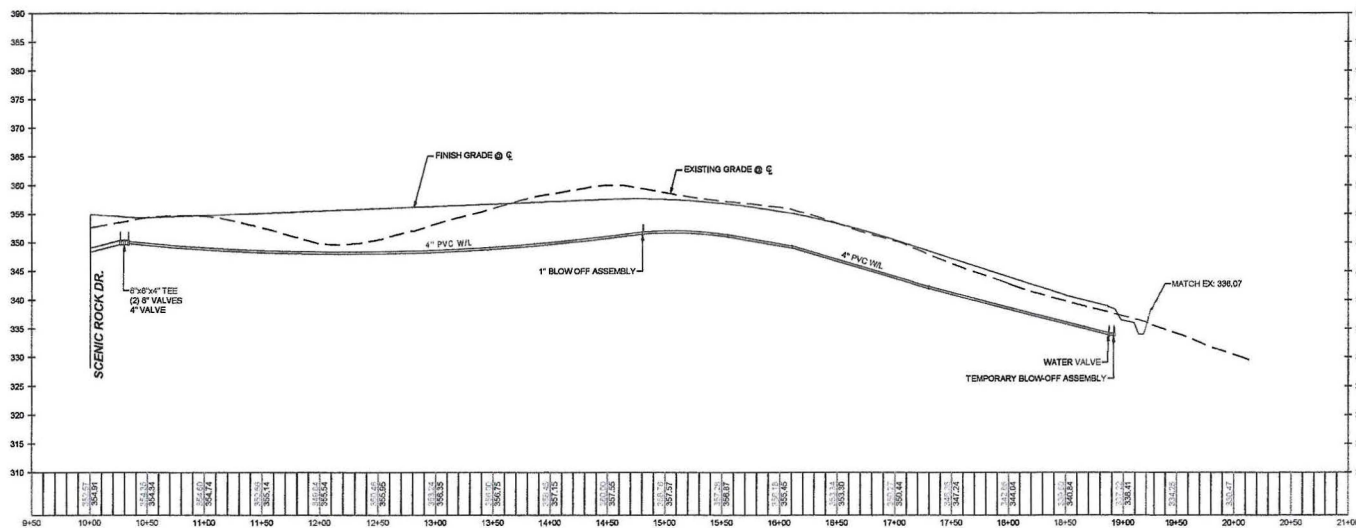
GRAPHIC SCALE



STRONGROCK
ENGINEERING GROUP

As-Built Drawing Review	
Submittal Name:	Baker Subdivision - PG 1 Water As-Built
SREG Project Name:	SG - Franklin - Sallie Ln
Date As-Built Data received by SREG:	10/5/2022
As-Built Data Procured By:	Jeremy Taylor, PLS - SREG
Changes to Approved Design Plans?	No
As-Built Drawing Completed By:	CT5
As-Built Drawing Reviewed By:	JL

Comments:
These As-Built Drawings are for Phase 1 Water mains for The Baker Subdivision; Future Phases are not included in these As-Built.



UTILITY ASBUILTS - PROFILE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

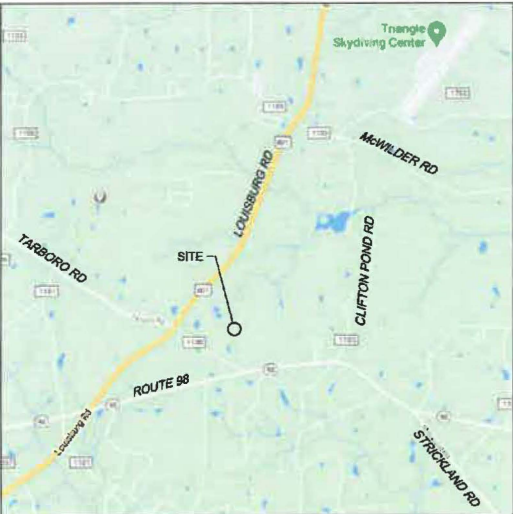
BAKER COMMUNITY WELL

FRANKLIN COUNTY, NORTH CAROLINA

SITE DATA:

DEVELOPER
TERRAMOR HOMES
7208 FALLS OF NEUSE RD, SUITE 201
RALEIGH, NC 27615
CONTACT: JON HOLTVEDT
PHONE: 919-809-4207
EMAIL: JHOLTVEDT@TERRAMORHOMES.COM

ENGINEERING
TIMMONS GROUP
1001 BOULDERS PARKWAY, SUITE 300
RICHMOND, VA 23225
CONTACT: BRUCE STRICKLAND, P.E.
PHONE: (804) 200-6389 FAX: (804) 560-1438
EMAIL: BRUCE.STRICKLAND@TIMMONS.COM



VICINITY MAP
SCALE: 1" = 5,000'

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C0.0	COVER
C1.0	OVERALL WELL SITE LAYOUT
C1.1	WELL SITE LAYOUT
C2.0	WELL HOUSE FLOOR PLAN AND SECTIONS
C2.1	WELL HOUSE FLOOR PLAN AND SECTIONS
C2.2	HYDRO-PNEUMATIC TANK LAYOUT
C2.3	BUILDING ELEVATIONS
C3.0	WELL HOUSE DETAILS
C3.1	WELL HOUSE DETAILS
C3.2	WELL HOUSE DETAILS
E1.0	PUMP STATION PLANS
E2.0	OVERALL WELL SITE PLAN
E2.1	WELL SITE PLANS
E3.0	WELL HOUSE FLOOR PLAN AND SECTIONS
E4.0	SECTIONS AND DETAILS
E5.0	SPECIFICATIONS
H1.1	MECHANICAL & PLUMBING PLAN

AUGUST 10, 2021
REVISED: SEPTEMBER 23, 2021

PUBLIC WATER SYSTEM
PLANS AND SPECIFICATIONS

APPROVED BY
N.C. DEPARTMENT OF
ENVIRONMENTAL QUALITY
DIVISION OF WATER RESOURCES
PUBLIC WATER SUPPLY SECTION

Serial No. 21-00697

Date 11/03/2021

By AS



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DATE	REVISION DESCRIPTION
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8/10/21	

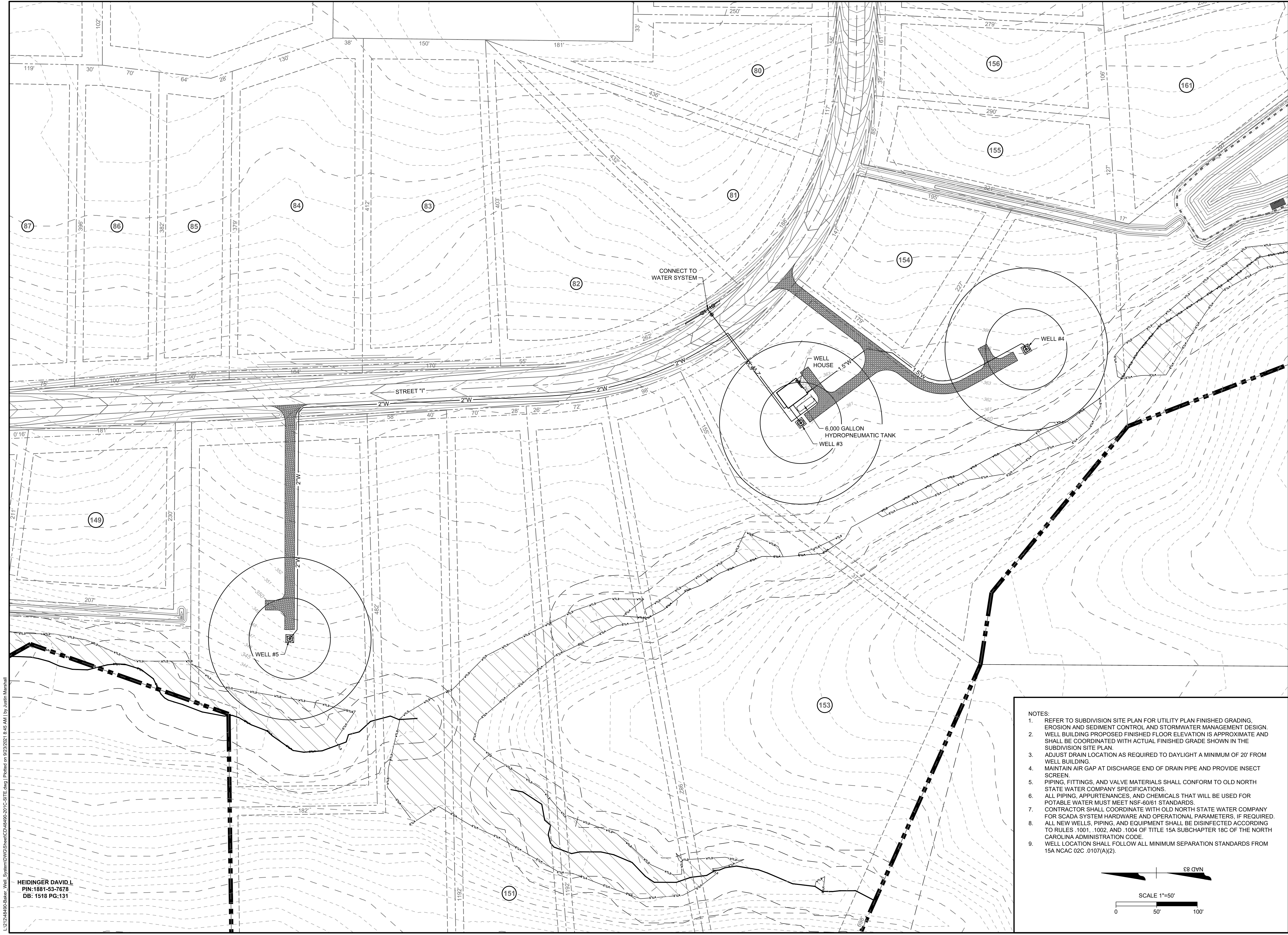
DRAWN BY
J. MARSHALL
DESIGNED BY
B. STRICKLAND
CHECKED BY
C. PETREE
SCALE

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652
BAKER COMMUNITY WELL
YOUNGSVILLE, FRANKLIN COUNTY -- NORTH CAROLINA
COVER

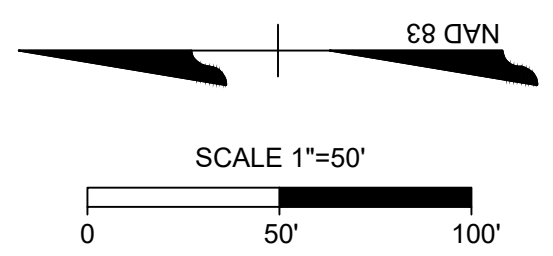
JOB NO.
48490
SHEET NO.
C0.0

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HEIDINGER DAVID L.
PIN:1881-53-7678
DB: 1518 PG:131

- NOTES:
1. REFER TO SUBDIVISION SITE PLAN FOR UTILITY PLAN FINISHED GRADING, EROSION AND SEDIMENT CONTROL, AND STORMWATER MANAGEMENT DESIGN.
 2. WELL BUILDING PROPOSED FINISHED FLOOR ELEVATION IS APPROXIMATE AND SHALL BE COORDINATED WITH ACTUAL FINISHED GRADE SHOWN IN THE SUBDIVISION SITE PLAN.
 3. ADJUST DRAIN LOCATION AS REQUIRED TO DAYLIGHT A MINIMUM OF 20' FROM WELL BUILDING.
 4. MAINTAIN AIR GAP AT DISCHARGE END OF DRAIN PIPE AND PROVIDE INSECT SCREEN.
 5. PIPING, FITTINGS, AND VALVE MATERIALS SHALL CONFORM TO OLD NORTH STATE WATER COMPANY SPECIFICATIONS.
 6. ALL PIPING, APPURTENANCES, AND CHEMICALS THAT WILL BE USED FOR POTABLE WATER MUST MEET NSF-60/61 STANDARDS.
 7. CONTRACTOR SHALL COORDINATE WITH OLD NORTH STATE WATER COMPANY FOR SCADA SYSTEM HARDWARE AND OPERATIONAL PARAMETERS, IF REQUIRED.
 8. ALL NEW WELLS, PIPING, AND EQUIPMENT SHALL BE DISINFECTED ACCORDING TO RULES .1001, .1002, AND .1004 OF TITLE 15A SUBCHAPTER 18C OF THE NORTH CAROLINA ADMINISTRATION CODE.
 9. WELL LOCATION SHALL FOLLOW ALL MINIMUM SEPARATION STANDARDS FROM 15A NCAC 02C .0107(A)(2).



W1300 Sub 97

044926
9/23/2021
ENGINEER
BRUCE W. STRICKLAND JR.

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DATE
9/23/21

REVISION DESCRIPTION
REVISED PER NCDEQ COMMENTS

DATE
8/10/21

DRAWN BY
J. MARSHALL

DESIGNED BY
B. STRICKLAND

CHECKED BY
C. PETREE

SCALE

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

BAKER COMMUNITY WELL

YOUNGSVILLE, FRANKLIN COUNTY -- NORTH CAROLINA

OVERALL WELL SITE LAYOUT

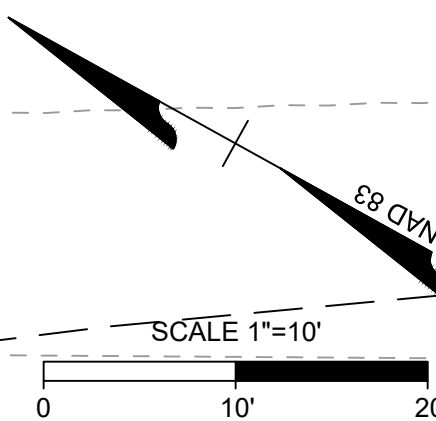
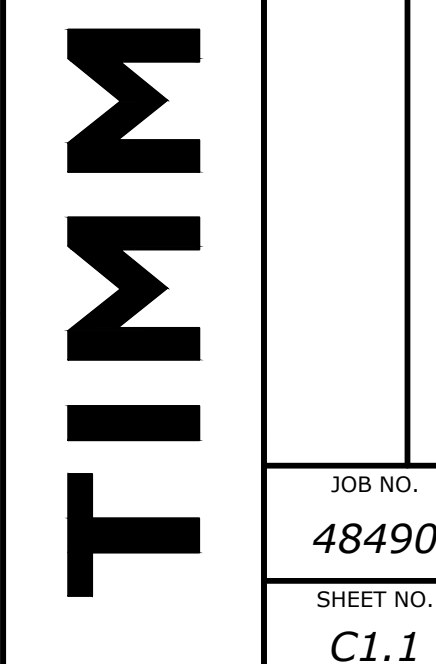
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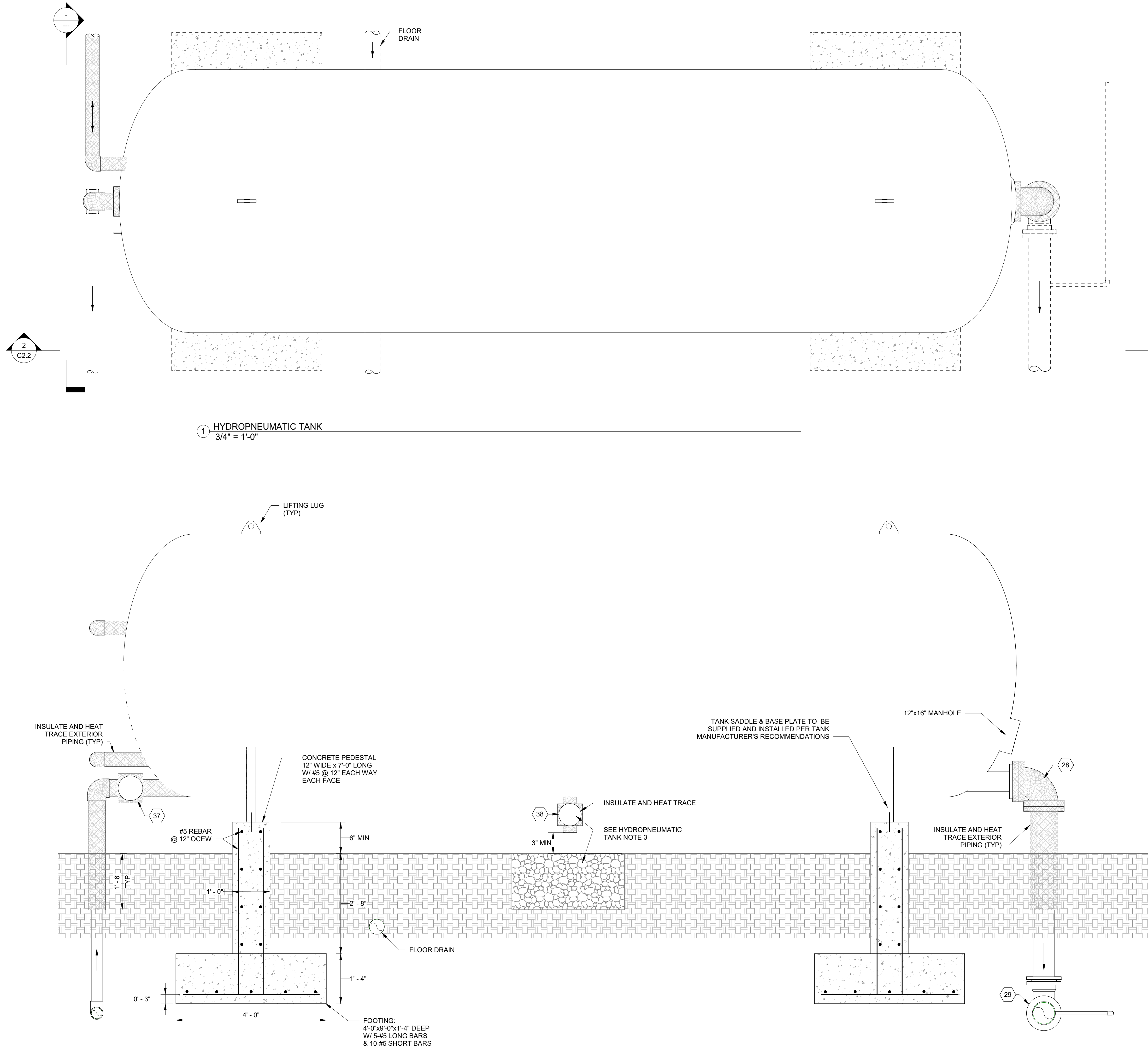
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C1.0

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JAN 23 2024





1 HYDROPNEUMATIC TANK
3/4" = 1'-0"

2 HYDROPNEUMATIC TANK SECTION
3/4" = 1'-0"

FITTING AND EQUIPMENT SCHEDULE

LABEL	DESCRIPTION
28	6" FLG DI 90 DEGREE ELBOW
29	6" MJ DI 90 DEGREE ELBOW
37	3" FLANGE DI GATE VALVE
38	2" FLANGE DI GATE VALVE

GENERAL NOTES

1. CONSTRUCTION SHALL ADHERE TO OLD NORTH STATE WATER COMPANY SPECIFICATIONS.
2. SECTIONS ARE INTENDED TO REPRESENT THE APPROXIMATE LOCATION FOR PIPING AND APPURTENANCES. SOME ITEMS MAY BE ROTATED OR OMITTED FOR CLARITY.
3. REFER TO ELECTRICAL DRAWINGS FOR PANEL DETAILS, LOAD REQUIREMENTS, WIRE SIZES AND ROUTING, ETC.
4. SEE ELECTRICAL SHEETS FOR CONDUIT REQUIREMENTS.
5. ALL SAFETY EQUIPMENT TO BE OSHA COMPLIANT.
6. PIPE SUPPORTS AND HANGERS REMOVED FOR CLARITY. SUPPORTS NOT SHOWN WILL BE NECESSARY. PIPING SHALL BE SUPPORTED AND BRACED TO HOLD THE PIPE OR APPURTENANCE IN A FIRM, SUBSTANTIAL MANNER.
7. ALL UNSTRUT SUPPORTS SHALL BE GALVANIZED STEEL.
8. ALL MATERIAL IN CONTACT WITH RAW AND TREATED WATER SHALL BE NSF 61 APPROVED.

PIPING NOTES

1. APPLY INSULATION WITH ALUMINUM JACKET AND HEAT TRACING ON ALL EXPOSED EXTERIOR PIPING.
2. ALL HARDWARE SHALL BE 304 OR 316 STAINLESS STEEL.
3. ENSURE ACCESS TO AND OPERABILITY OF ALL VALVES.
4. ALL PIPES, VALVES, AND FITTINGS LESS THAN 4" DIAMETER SHALL BE SCH 40 GALVANIZED STEEL UNLESS OTHERWISE STATED.
5. ROUTE STRAINER FLUSHING CONNECTIONS TO BLOW-OFF DISCHARGE.
6. PRESSURE RELIEF VALVES SHALL BE SET AT 100 PSI.

PRECAST CONCRETE BUILDING NOTES

1. BUILDING SLAB AND SUBGRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH BUILDING MANUFACTURERS SPECIFICATIONS

HYDROPNEUMATIC TANK NOTES:

GENERAL NOTES:
1. MANUFACTURERS OF ANY PRE-ENGINEERED, PRE-FABRICATED SYSTEM OR COMPONENT SHALL SUBMIT SHOP DRAWINGS FOR THE ENGINEER'S APPROVAL PRIOR TO FABRICATION OR ERECTION OF SYSTEM COMPONENT. THESE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A NORTH CAROLINA REGISTERED ENGINEER.

FOUNDATIONS:
1. IT SHALL BE OWNER'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY AND SUB SURFACE CONDITIONS, PRIOR TO START OF CONSTRUCTION. OWNER'S GEOTECHNICAL CONSULTANT MAY RECOMMEND DIFFERENT SITE PREPARATION REQUIREMENTS THAN LISTED BELOW. CONTRACTOR SHALL COORDINATE SOIL INVESTIGATION FINDINGS AND SUBSEQUENT RECOMMENDATIONS WITH OWNER AND HIS GEOTECHNICAL CONSULTANT.
2. MAXIMUM ALLOWABLE SOIL PRESSURE IS ASSUMED TO BE 2,000 POUNDS PER SQUARE FOOT.
3. SPREAD FOOTINGS SHALL BEAR ON SOIL COMPACTED TO A DENSITY OF AT LEAST 95% OF MODIFIED PROCTOR MAXIMUM DENSITY (ASTM D1557). THE SOIL SHALL BE COMPACTED TO THIS DENSITY TO A DEPTH OF AT LEAST TWO FEET BELOW THE BOTTOM OF THE FOOTINGS.

CONCRETE:
1. PEDESTALS SHALL BE EXCAVATED TO SOLID COMPACT GROUND.
2. DESIGN OF REINFORCED CONCRETE CONFORMS WITH BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE -- ACI 318, LATEST EDITION.
3. PROVIDE NORMAL WEIGHT CONCRETE WITH THE FOLLOWING PROPERTIES:
3,000 PSI 28-DAY COMPRESSIVE STRENGTH, 480 LBS TYPE 1 PORTLAND CEMENT PER CY MINIMUM, W/C RATIO, 0.58 MAXIMUM (NON-AIR ENTRAINED), 0.46 MAXIMUM AIR ENTRAINED. NO FLY ASH OR OTHER POZZOLAN IS PERMITTED. SLUMP LIMIT 3" TO 5".

REINFORCING STEEL:
1. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615-GRADE 60. ALL DETAILING AND ACCESSORIES SHALL CONFORM TO TYPICAL DETAILS SHOWN IN THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 315, LATEST EDITION".
2. CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE AS FOLLOWS:
FOOTINGS: 3" CLEAR
BOTTOM AND SIDES: 2" CLEAR
TOP: 2" CLEAR

TANK:
1. PRE-FABRICATED TANK MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR DESIGN ENGINEER'S REVIEW PRIOR TO FABRICATION. FOLLOW ALL FEDERAL, STATE, AND LOCAL CODES AND OTHER ORDINANCES PERTAINING TO THIS WORK, PROVIDE ALL PERTINENT DETAILS, MATERIAL STRENGTH, PHYSICAL PROPERTIES, ETC. AS APPLICABLE.
2. TANK SHALL BE ASME APPROVED AND HAVE MINIMUM WORKING PRESSURE OF 125 PSI.
3. TANK SHALL HAVE A FACTORY INSTALLED 2" BLOW-OFF LOCATED IN THE MIDDLE OF THE TANK LENGTHWISE AND AT THE ABSOLUTE BOTTOM (ZERO DEGREES). A WHEEL OPERATED 2" GATE VALVE SHALL BE INSTALLED WITH A NIPPLE EXTENDING NO CLOSER THAN 3" FROM THE FINAL GRADE. ALL VALVES AND PIPING USED SHALL BE RATED A MINIMUM OF 150 PSI OR AT LEAST 25 PSI ABOVE THE RATED MAXIMUM TANK PRESSURE. CENTERED UNDERNEATH THIS BLOW-OFF PIPE SHALL BE A 3x3' WASHED STONE BED AN MINIMUM OF 18" DEEP.

PLAN LEGEND

SYMBOL	DESCRIPTION
	SCHEDULED FITTING
	SCHEDULED EQUIPMENT
	BUILDING SECTION
	DETAIL SECTION
	ELEVATION MARKER
	LIQUID ELEVATION

W1300 Sub 97

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REVISION DESCRIPTION
REVISED PER NDEQ COMMENT

DATE	REVISION
9/23/21	
08/10/21	
DRAWN BY	J. MARSHALL
DESIGNED BY	B. STRICKLAND
CHECKED BY	C. PETREE
SCALE	AS NOTED

NORTH CAROLINA LICENSE NO. C-1652

BAKER COMMUNITY WELL
FRANKLIN COUNTY - NORTH CAROLINA

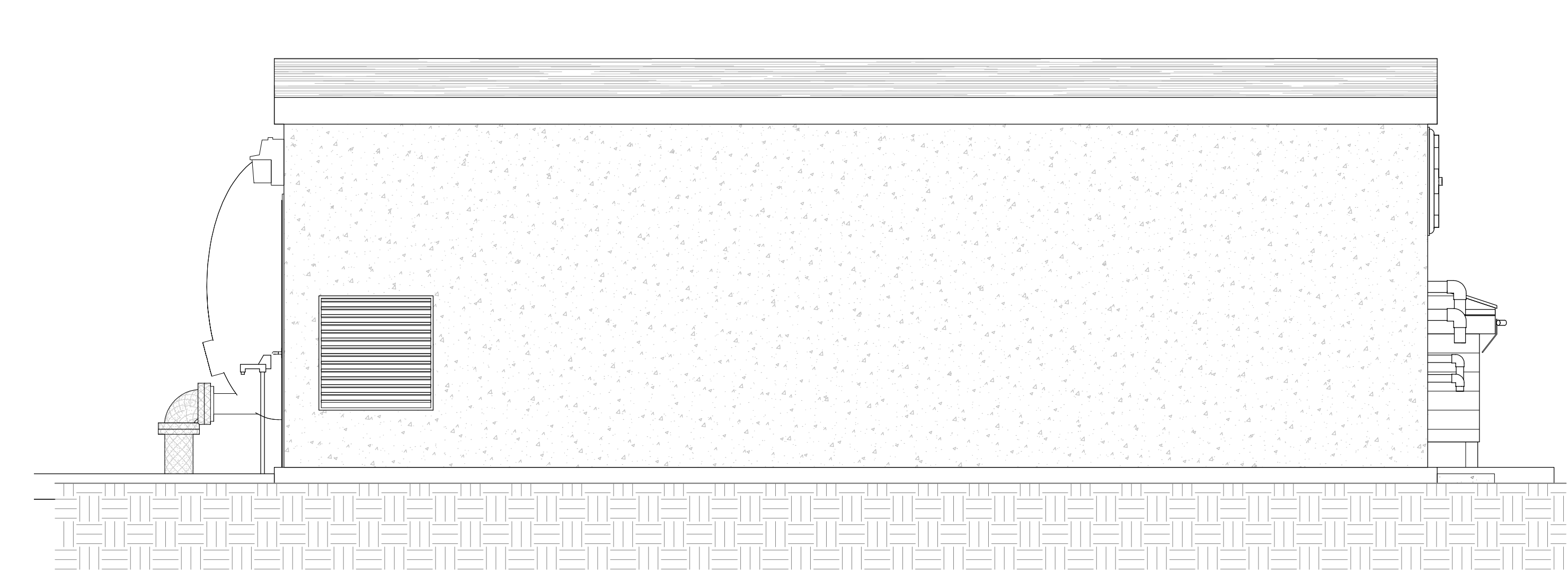
HYDROPNEUMATIC TANK LAYOUT

JOB NO.
48490
SHEET NO.
C2.2

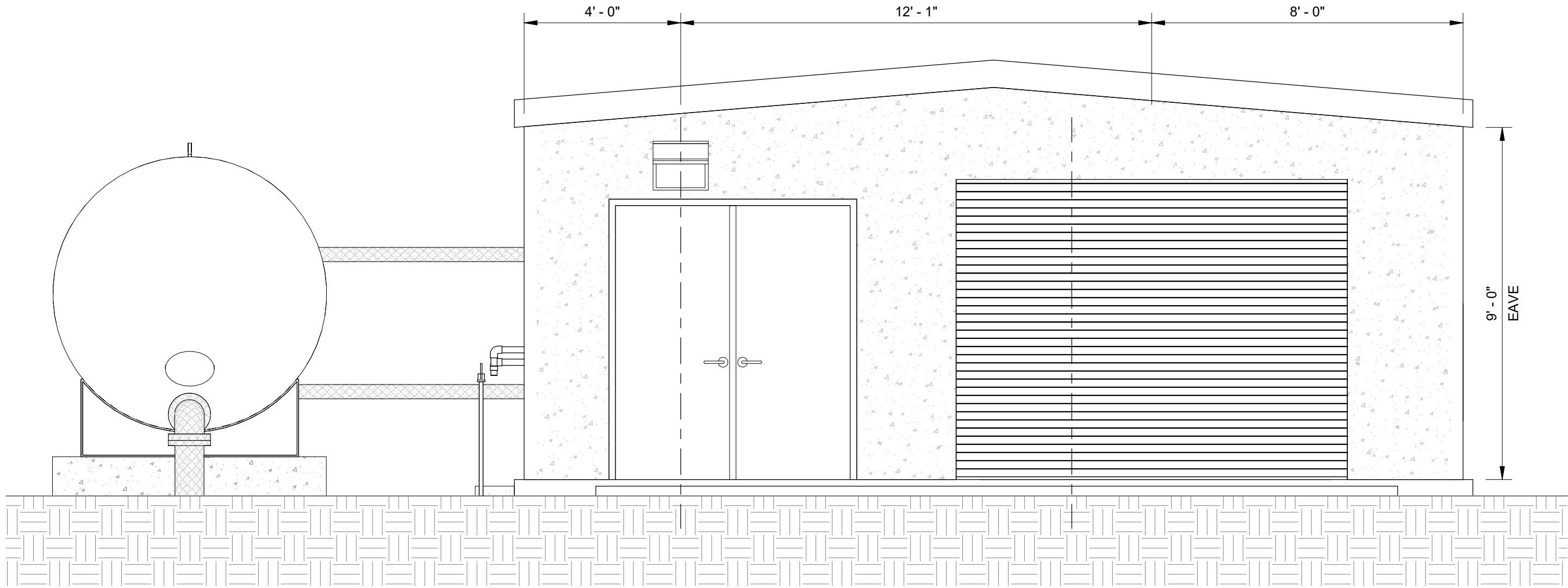
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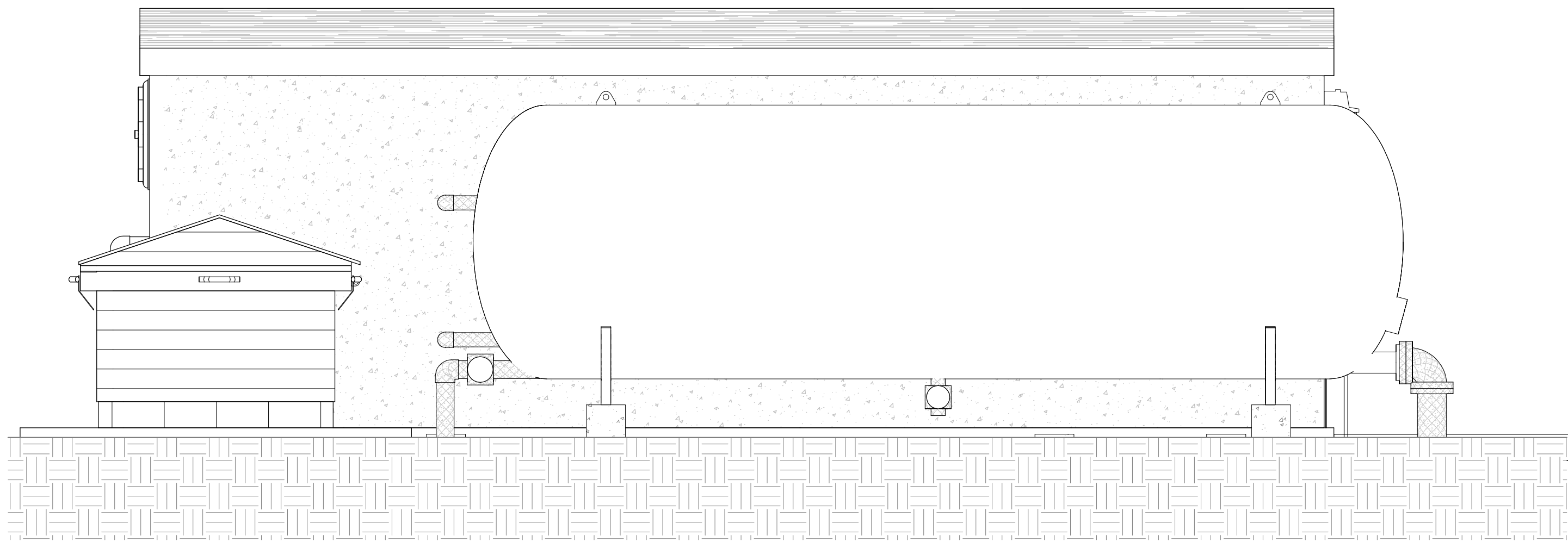
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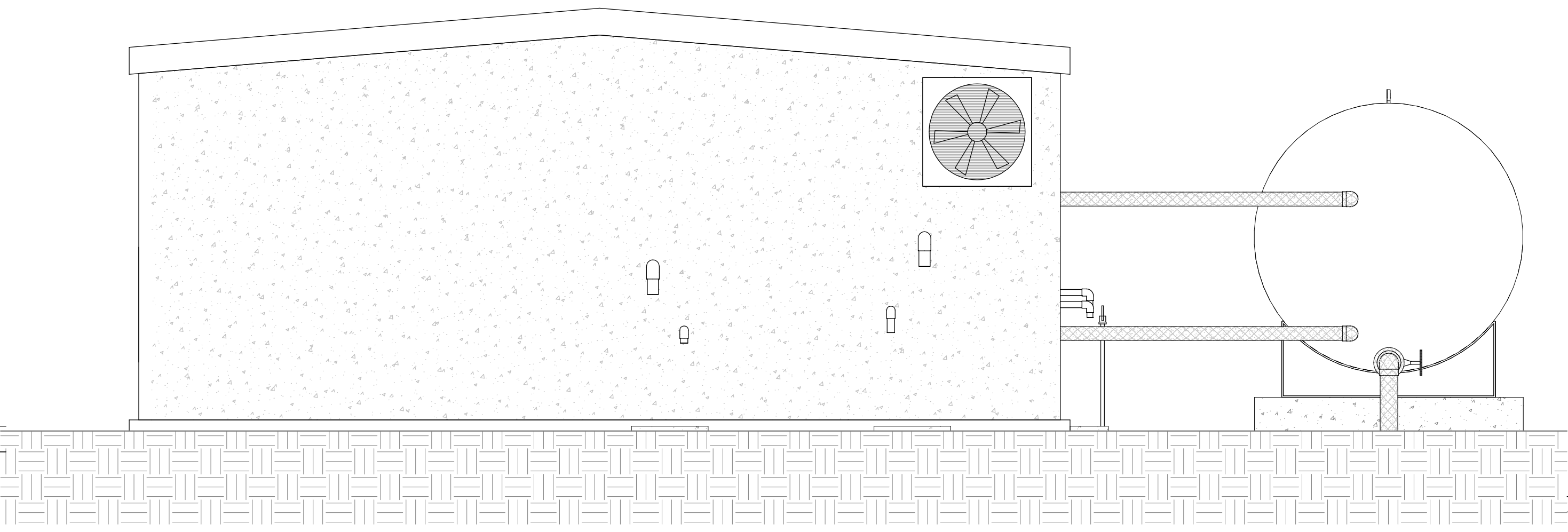
3 NORTH ELEVATION
3/8" = 1'-0"



1 EAST ELEVATION
3/8" = 1'-0"



4 SOUTH ELEVATION
3/8" = 1'-0"



2 WEST ELEVATION
3/8" = 1'-0"



W1300 Sub 97



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REVISION DESCRIPTION
REVISED PER NDEQ COMMENT

DATE
9/23/21

DATE
08/10/21

DRAWN BY
J. MARSHALL

DESIGNED BY
B. STRICKLAND

CHECKED BY
C. PETREE

SCALE
AS NOTED

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

BAKER COMMUNITY WELL

FRANKLIN COUNTY - NORTH CAROLINA

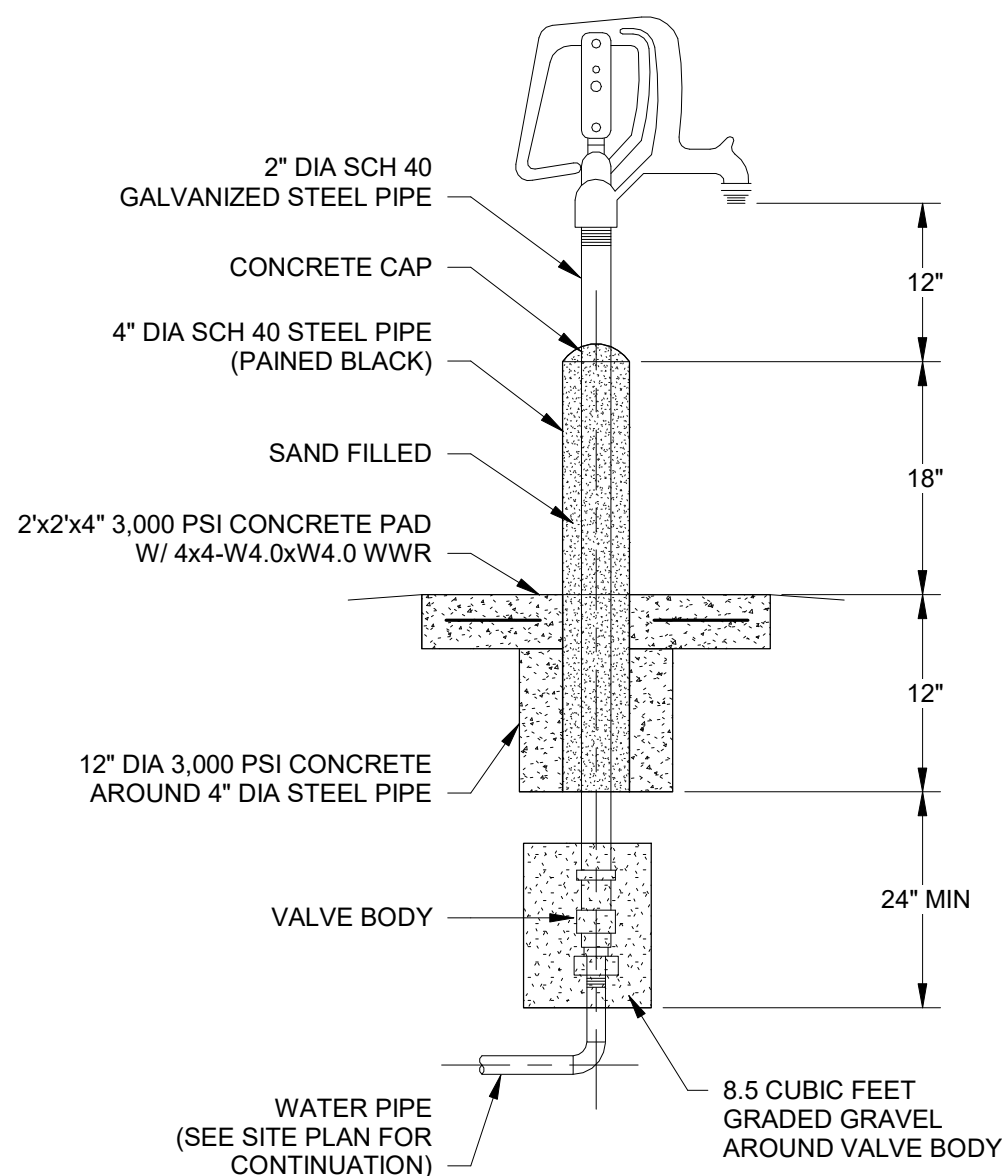
BUILDING ELEVATIONS

JOB NO.
48490

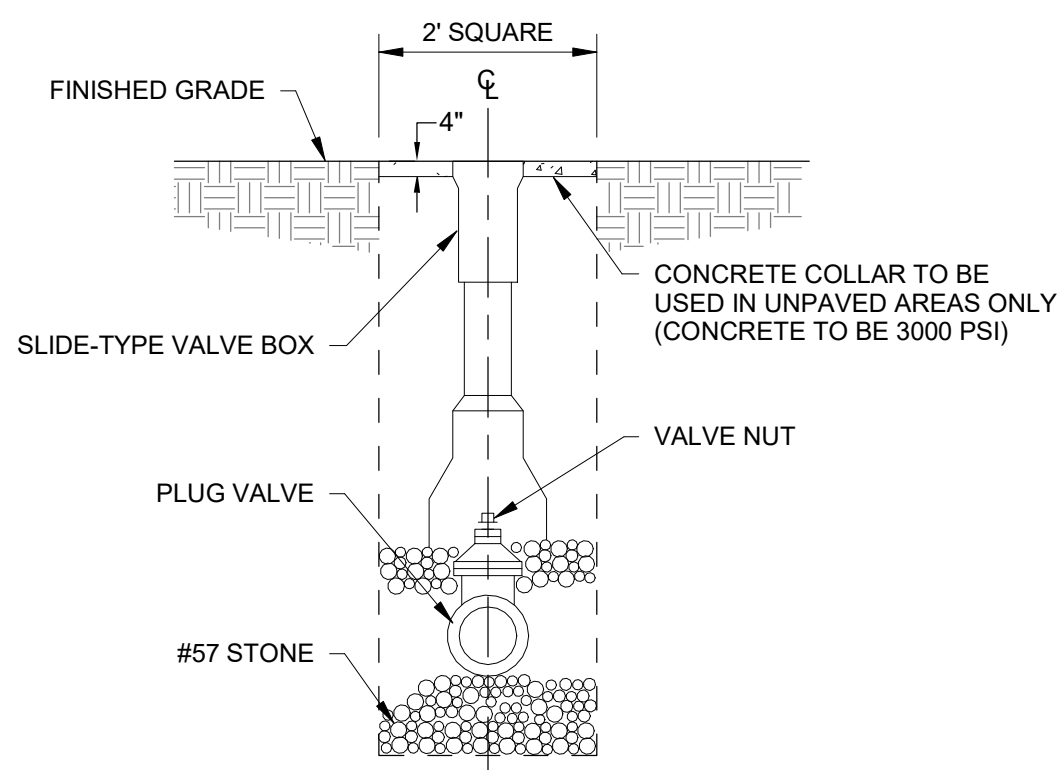
SHEET NO.
C2.3

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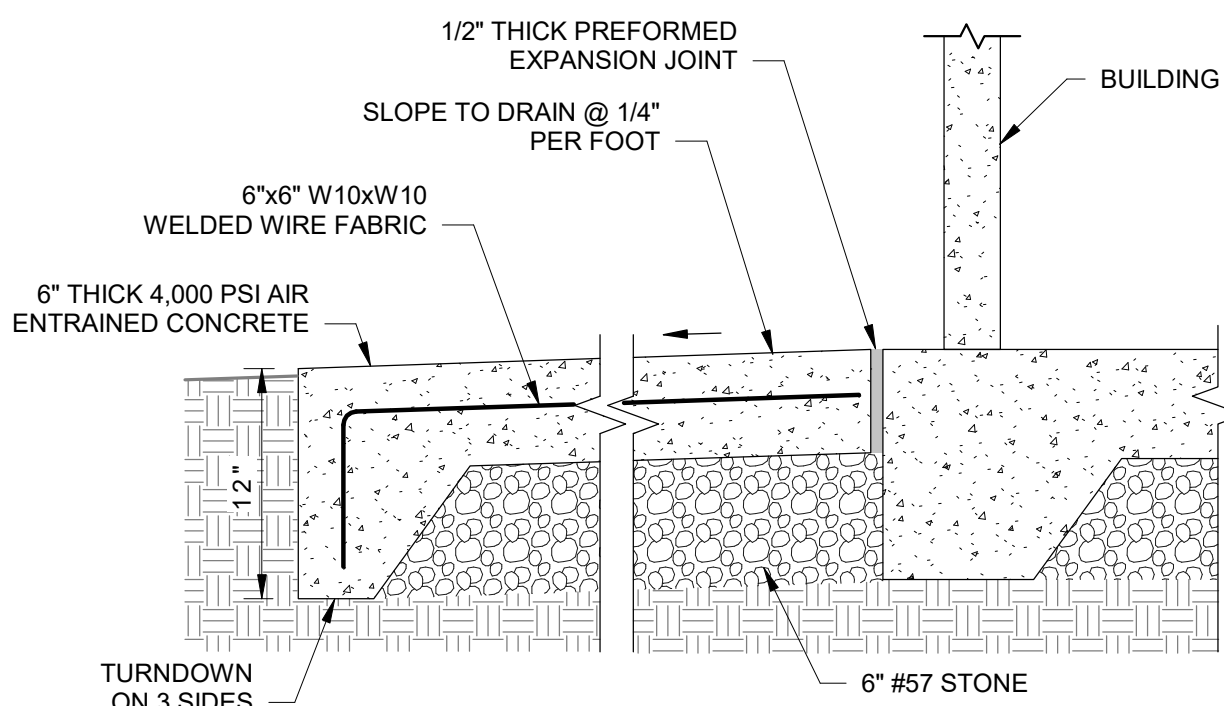
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Jan 23 2024



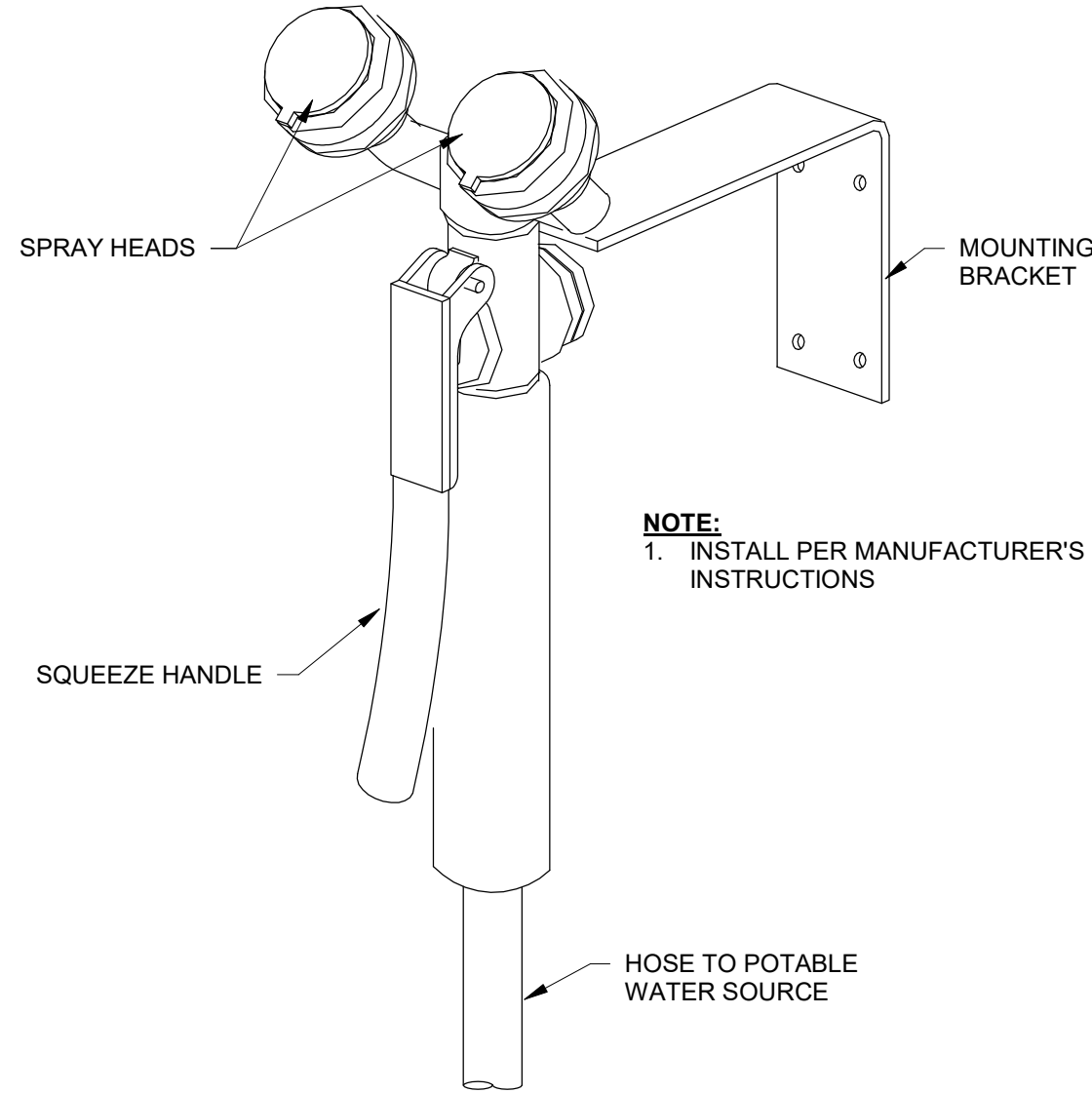
10 YARD HYDRANT ASSEMBLY
NOT TO SCALE



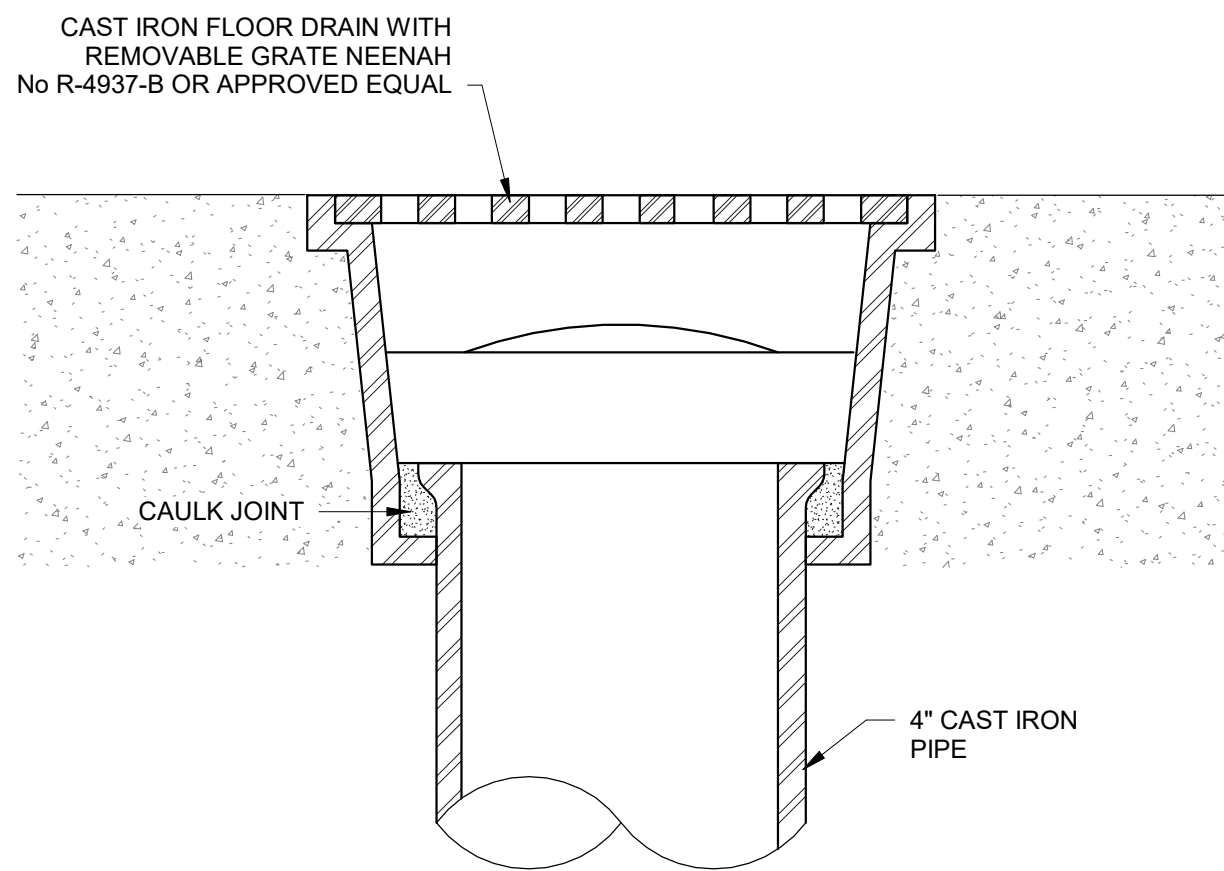
11 VALVE BOX
NOT TO SCALE



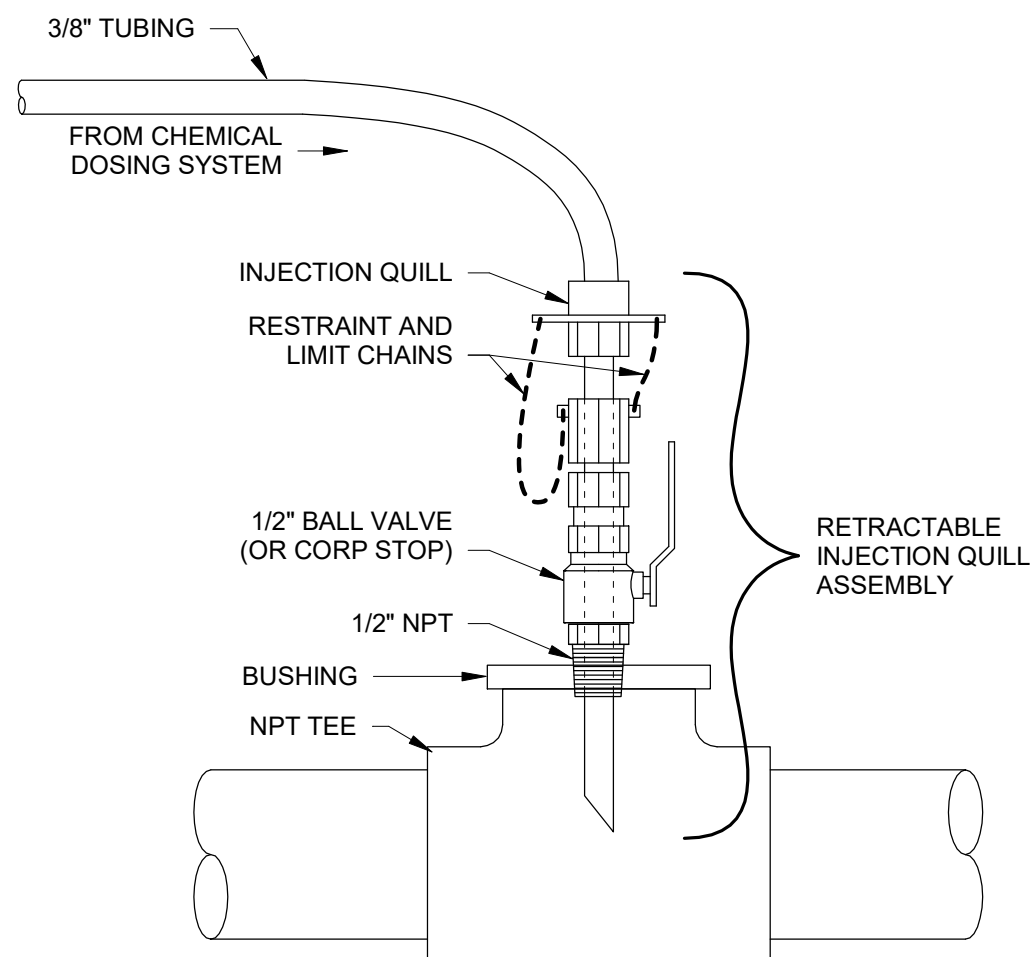
12 CONCRETE APRON
NOT TO SCALE



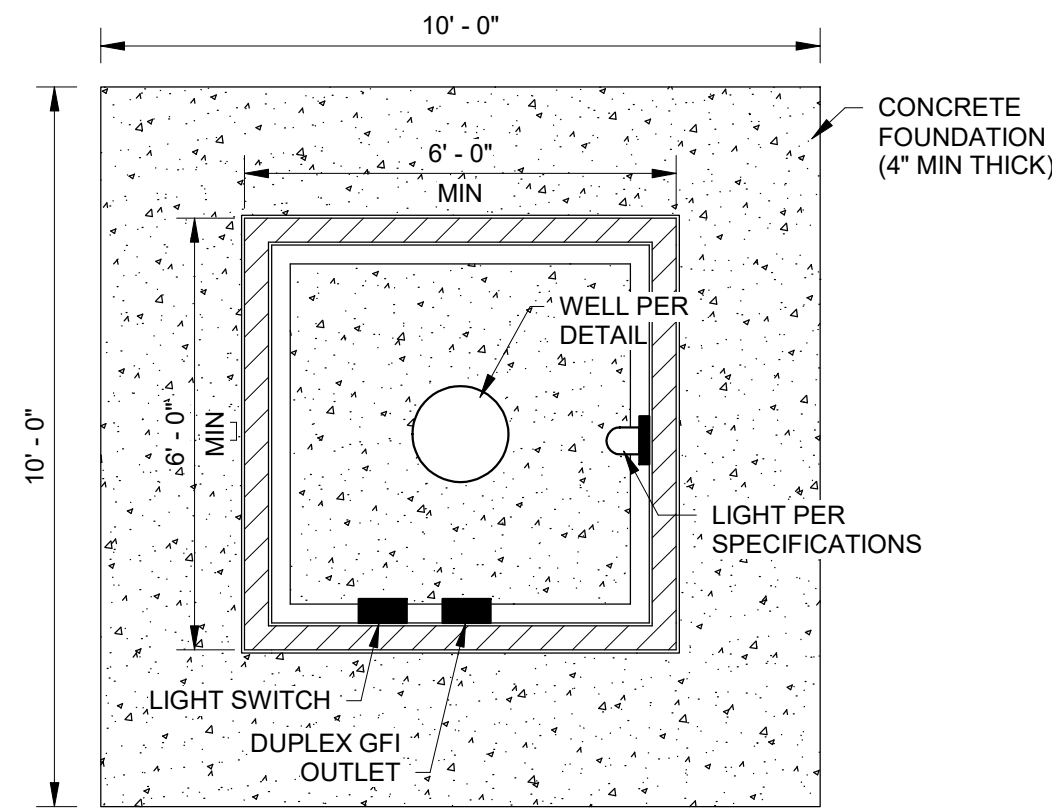
7 EMERGENCY DRENCH HOSE
NOT TO SCALE



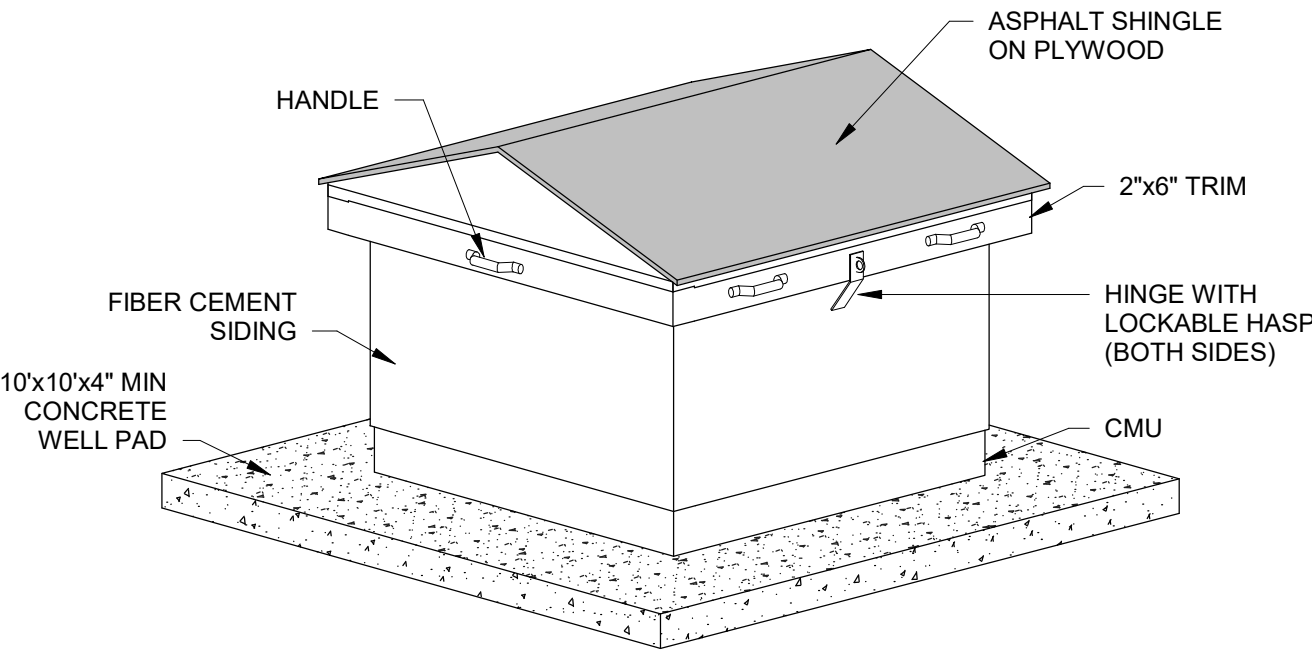
8 FLOOR DRAIN
NOT TO SCALE



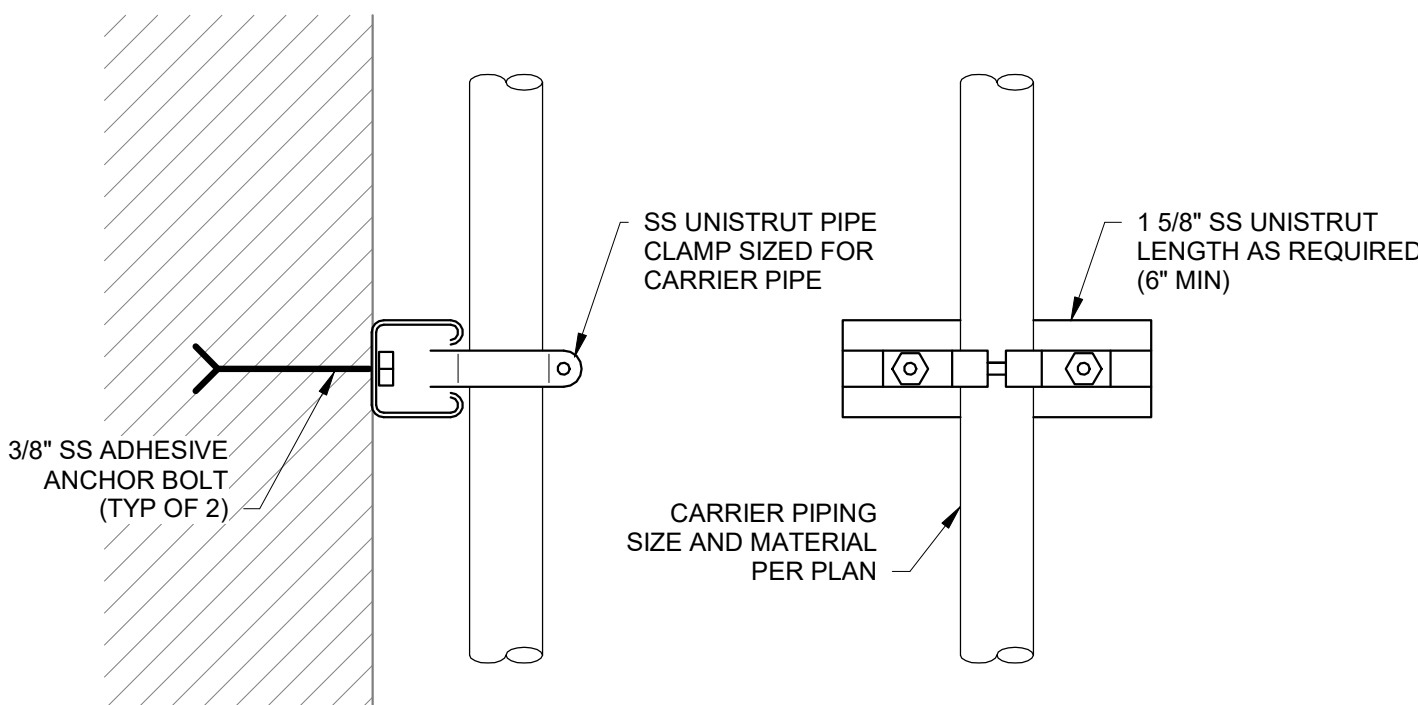
9 CHEMICAL INJECTION QUILL
NOT TO SCALE



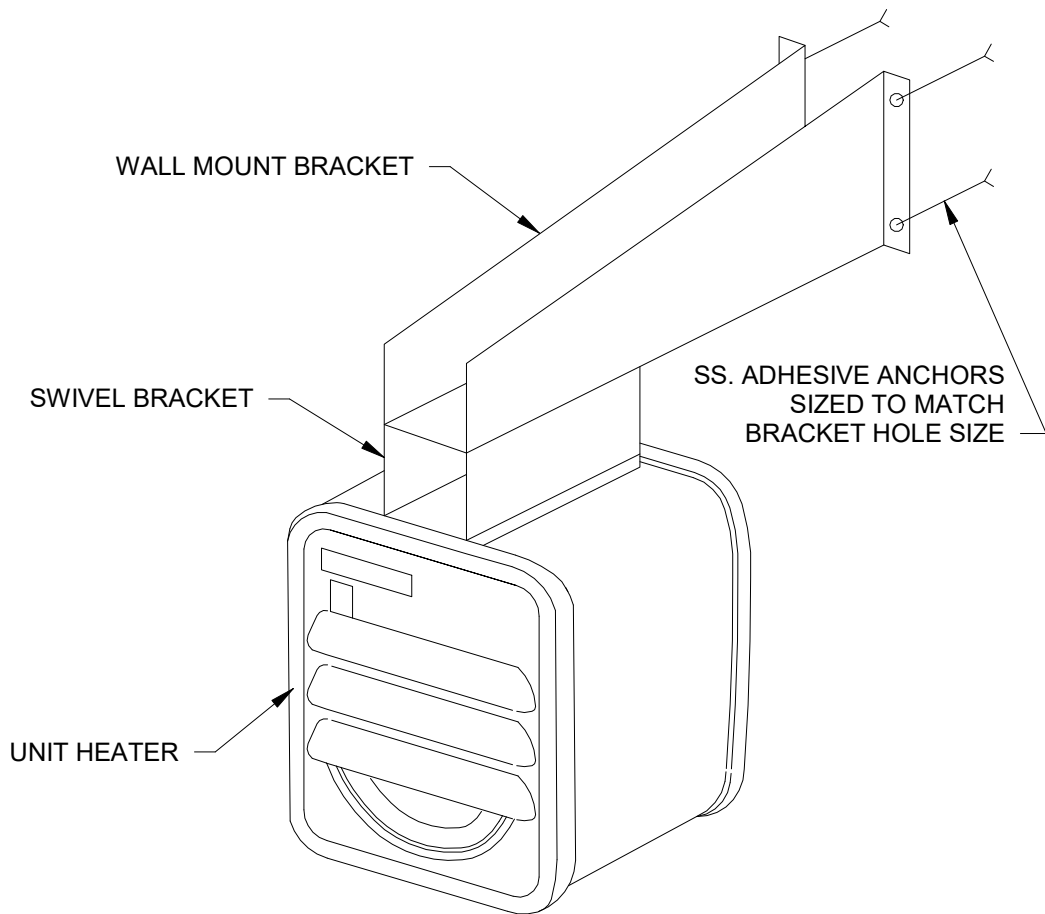
4 WELL COVER



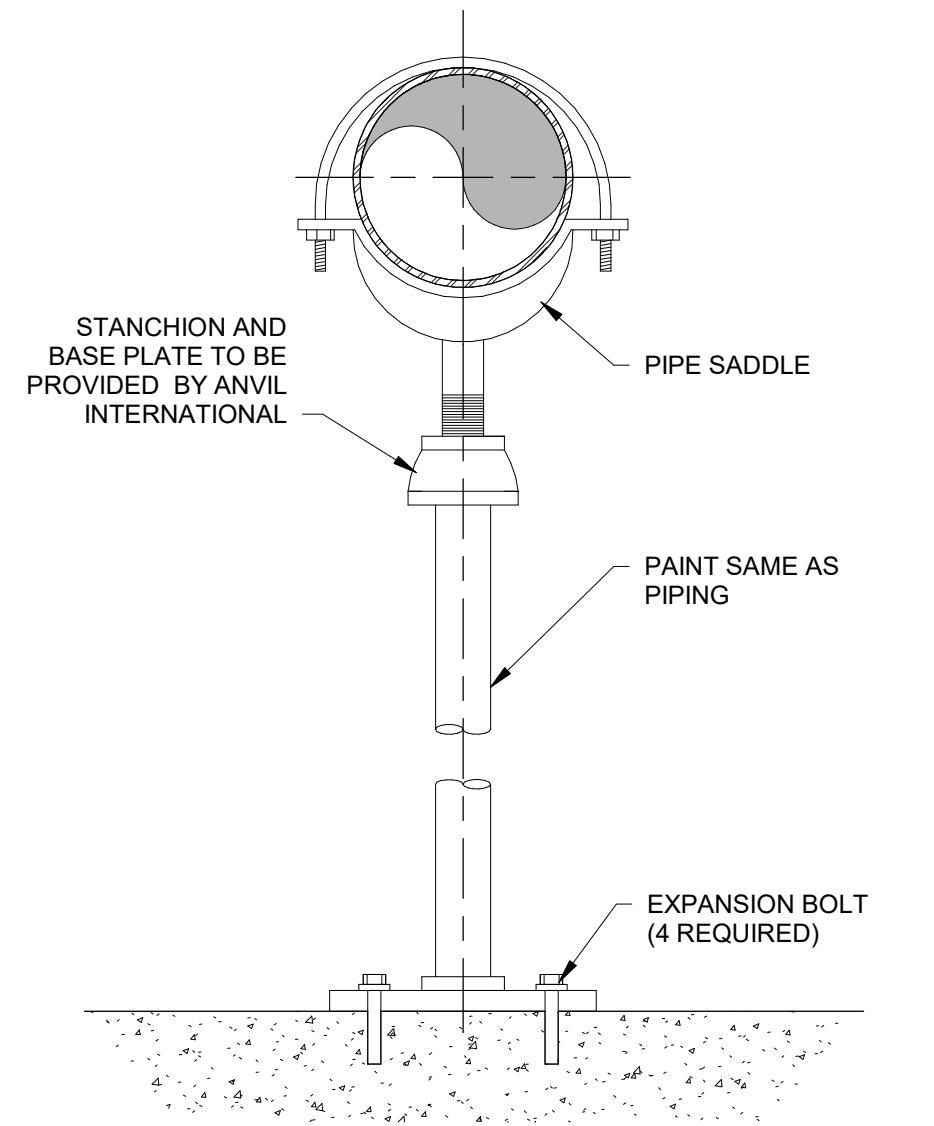
5 UNISTRUT PIPE SUPPORT
NOT TO SCALE



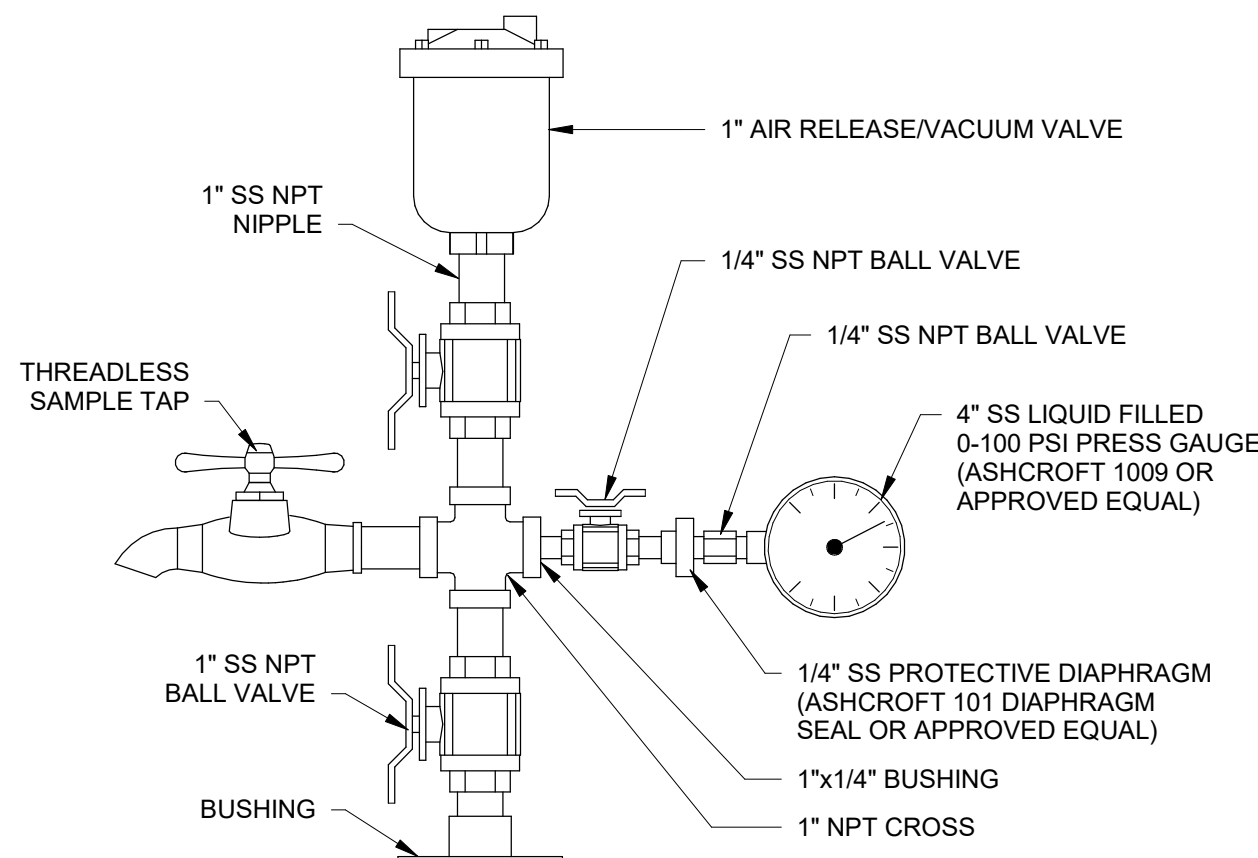
6 UNIT HEATER1
NOT TO SCALE



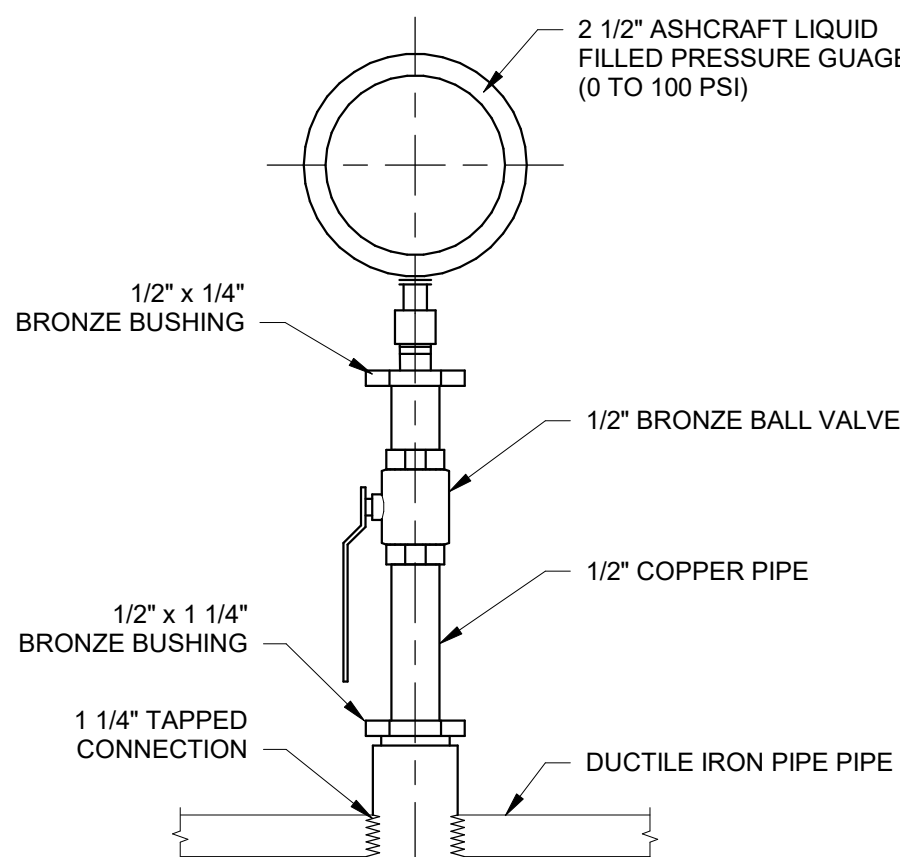
- NOTES:
1. MINIMUM MOUNTING HEIGHT 7'-0" PREFERRED
HEIGHT 8'-0"
2. WALL MOUNT BRACKET TO BE SIZED AND
SUPPLIED BY MANUFACTURER AS PART OF
HEATER



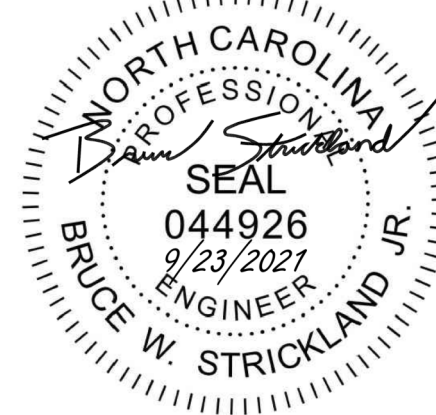
1 ADJUSTABLE SADDLE PIPE SUPPORT
NOT TO SCALE



2 ARV ASSEMBLY WITH APPURTENANCES
NOT TO SCALE



3 PRESSURE GAUGE
NOT TO SCALE



THIS DRAWING PREPARED AT THE
CORPORATE OFFICE
1001 Boulders Parkway, Suite 200, | Richmond, VA 23235
TEL 804-200-6500 FAX 804-560-1016 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION
REVISED PER NDEQ COMMENT

DATE
9/23/21

DATE
08/10/21

DRAWN BY
J. MARSHALL

DESIGNED BY
B. STRICKLAND

CHECKED BY
C. PETREE

SCALE
AS NOTED

NORTH CAROLINA LICENSE NO. C-1652

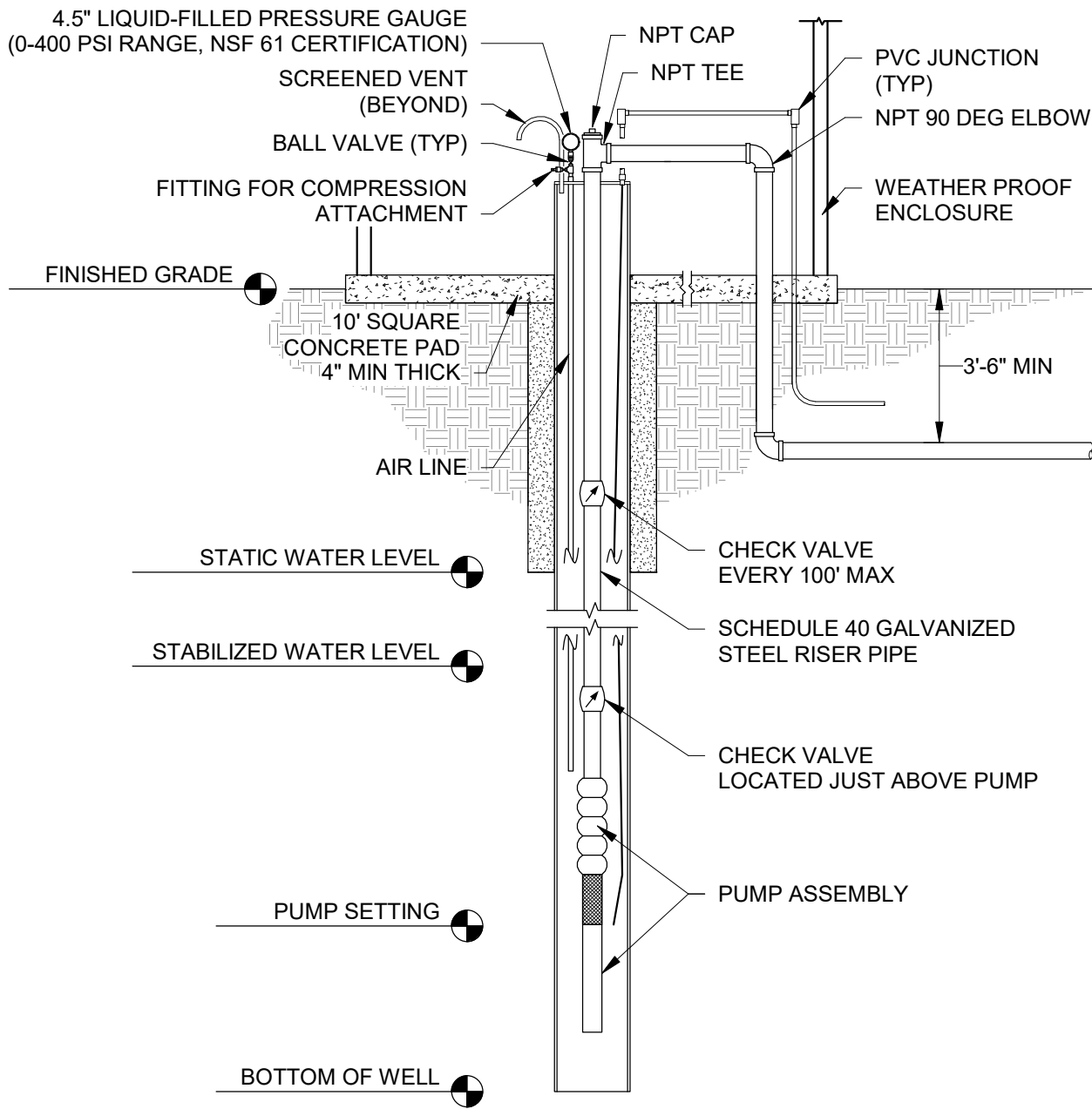
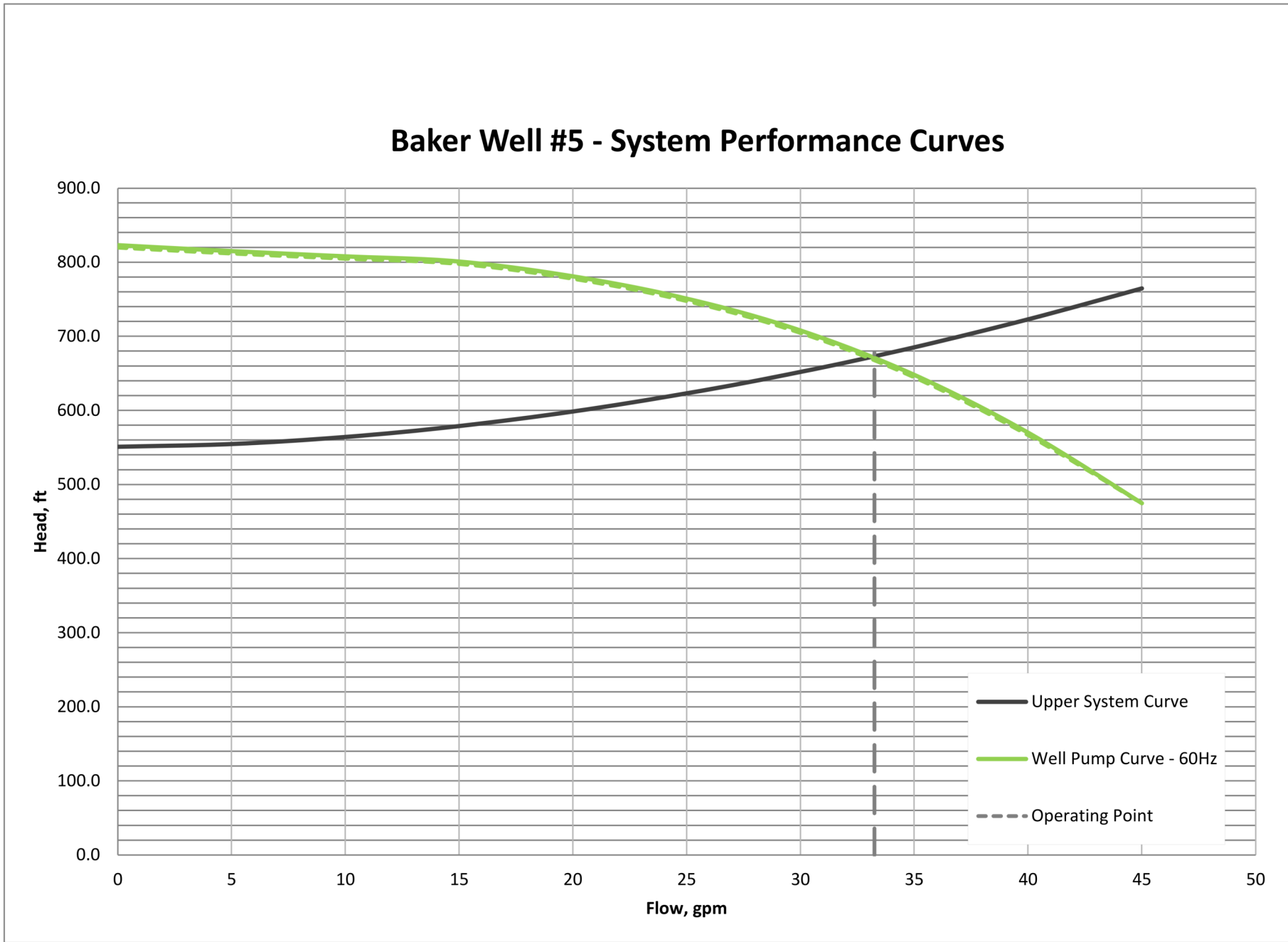
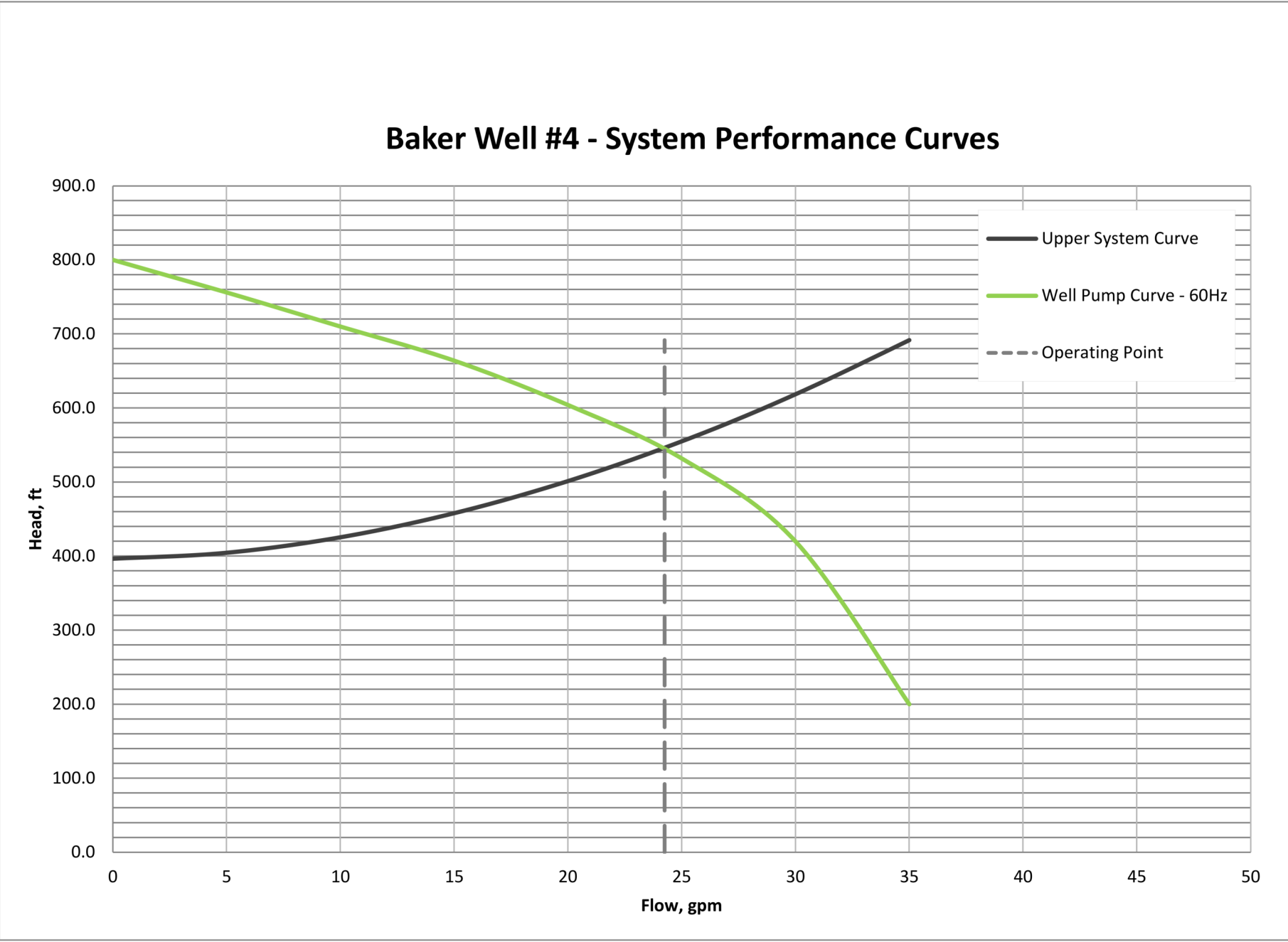
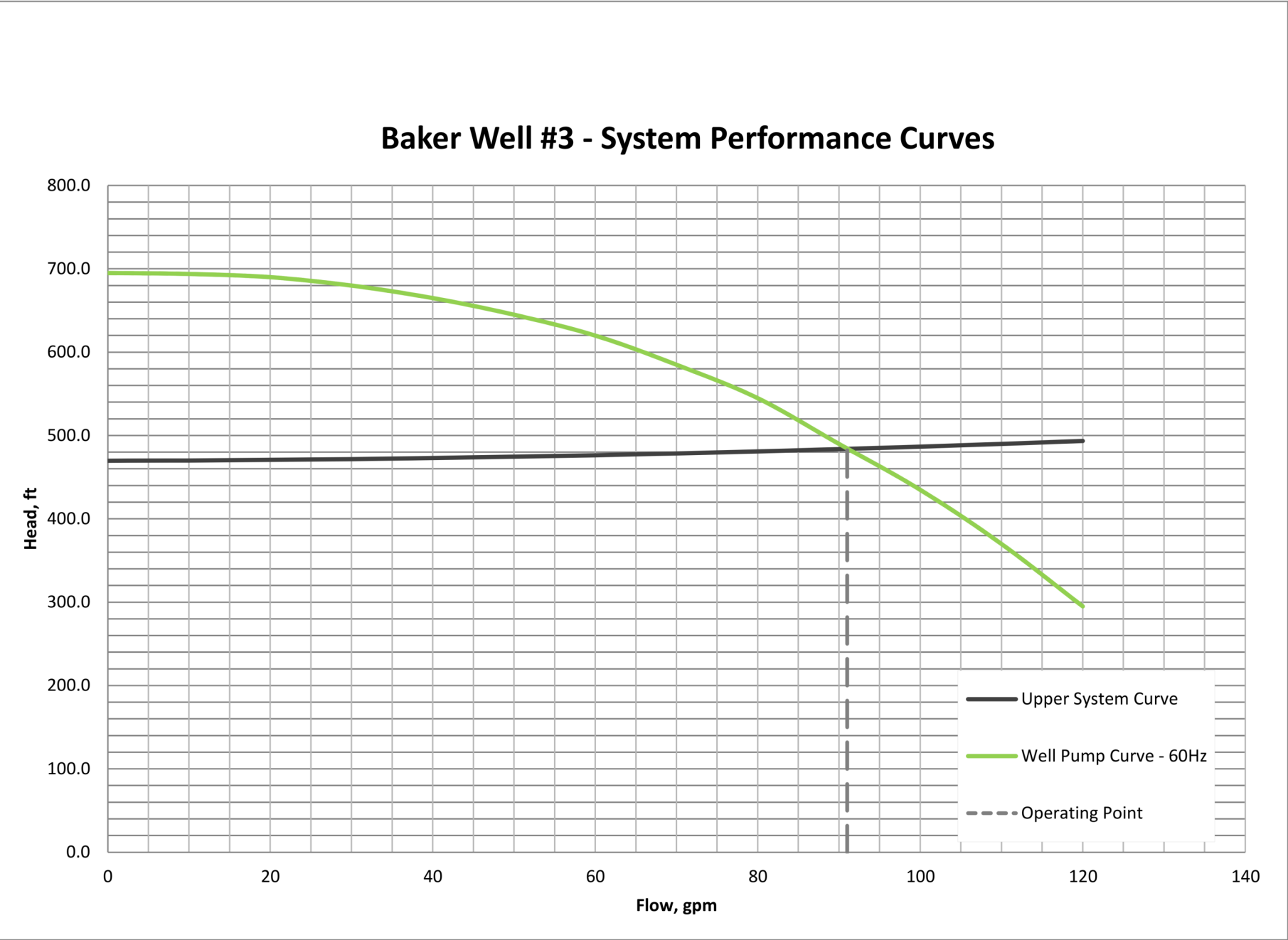
BAKER COMMUNITY WELL

FRANKLIN COUNTY - NORTH CAROLINA

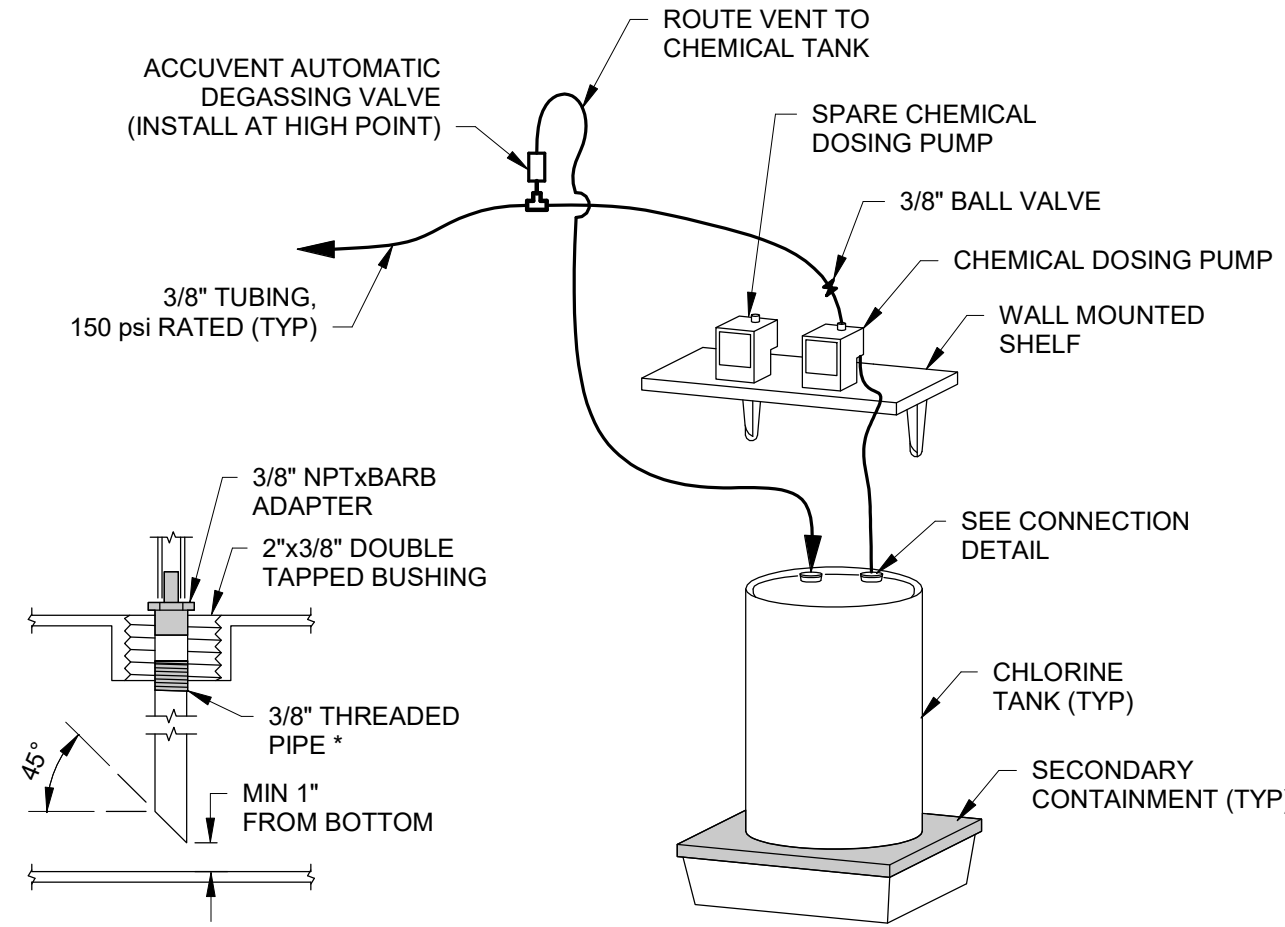
WELL HOUSE DETAILS

JOB NO.
48490

SHEET NO.
C3.0



1 WELL DETAIL
NOT TO SCALE



2 CHLORINE DOSING SYSTEM
NOT TO SCALE

WELL SCHEDULE			
	WELL #3	WELL #4	WELL #5
RISER AND APPERTENANCES DIAMETER	3"	1"	1.5"
FINISHED GRADE ELEVATION	363.0	348.0	348.0
STATIC WATER LEVEL ELEVATION	331.3	335.5	328.6
STABALIZED WATER LEVEL ELEVATION	109.9	158.2	24.4
PUMP SETTING ELEVATION	9.9	58.2	-75.6
BOTTOM OF WELL ELEVATION	-242.0	-457.0	-457.0
PUMP MAKE	GRUNDFOS	GRUNDFOS	GRUNDFOS
PUMP MODEL	85S150-13	25S50-26	35S75-28
MOTOR HORSEPOWER	15.5	7.5	7.5
MOTOR RPM	3429	3450	3343
MOTOR TYPE	CONSTANT SPEED	CONSTANT SPEED	CONSTANT SPEED
PUMPING EFFICIENCY	71.7%	40.0%	68.6%
OPERATING POINT	91 GPM	24.3 GPM	33.3 GPM

CHEMICAL FEED SYSTEM NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE PIPE FITTINGS.
- THE CHEMICAL FEED PUMP SHALL ONLY BE ENERGIZED WHEN THE WELL PUMPS ARE RUNNING. CONTRACTOR SHALL PROVIDE ELECTRICAL OUTLET INTERCONNECTED TO THE WELL PUMPS.
- CONTRACTOR SHALL PROVIDE THE FOLLOWING SAFETY EQUIPMENT:
 - SHOWA N8 CHEMICAL RESISTANT NEOPRENE GLOVES (USA BLUEBOOK 48583 & 48584)
 - UVEX STRATEGY GOGGLES (USA BLUEBOOK 41701) TWO PAIR
 - HYCAR BIB APRON (USA BLUEBOOK 41790)
- PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUPPLY ONE FULL 55 GALLON CONTAINER OF 12.5% SODIUM HYPOCHLORITE
- CHEMICAL FEED SETTINGS:
 - SODIUM HYPOCHLORITE TARGET CONCENTRATION = 1.5 - 3.0 MG/L AT HYDROPNEUMATIC TANK INLET.
 - CHEMICAL FEED PUMP: PULSATRON SERIES A PLUS MODEL LB02
- CONTRACTOR SHALL PROVIDE SPARE CHEMICAL DOSING PUMP.



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SCALE
AS NOTED

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

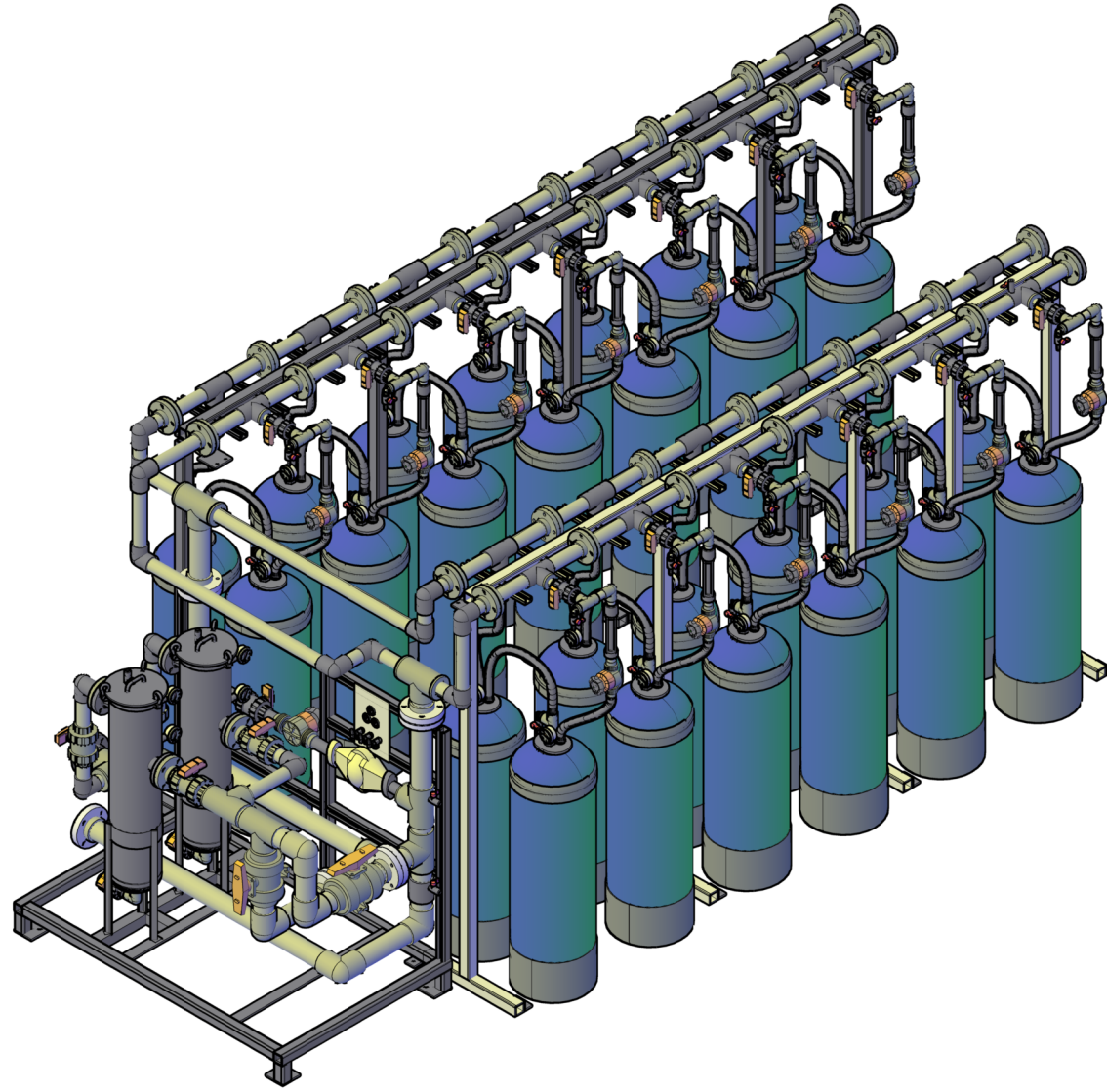
BAKER COMMUNITY WELL
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WELL HOUSE DETAILS

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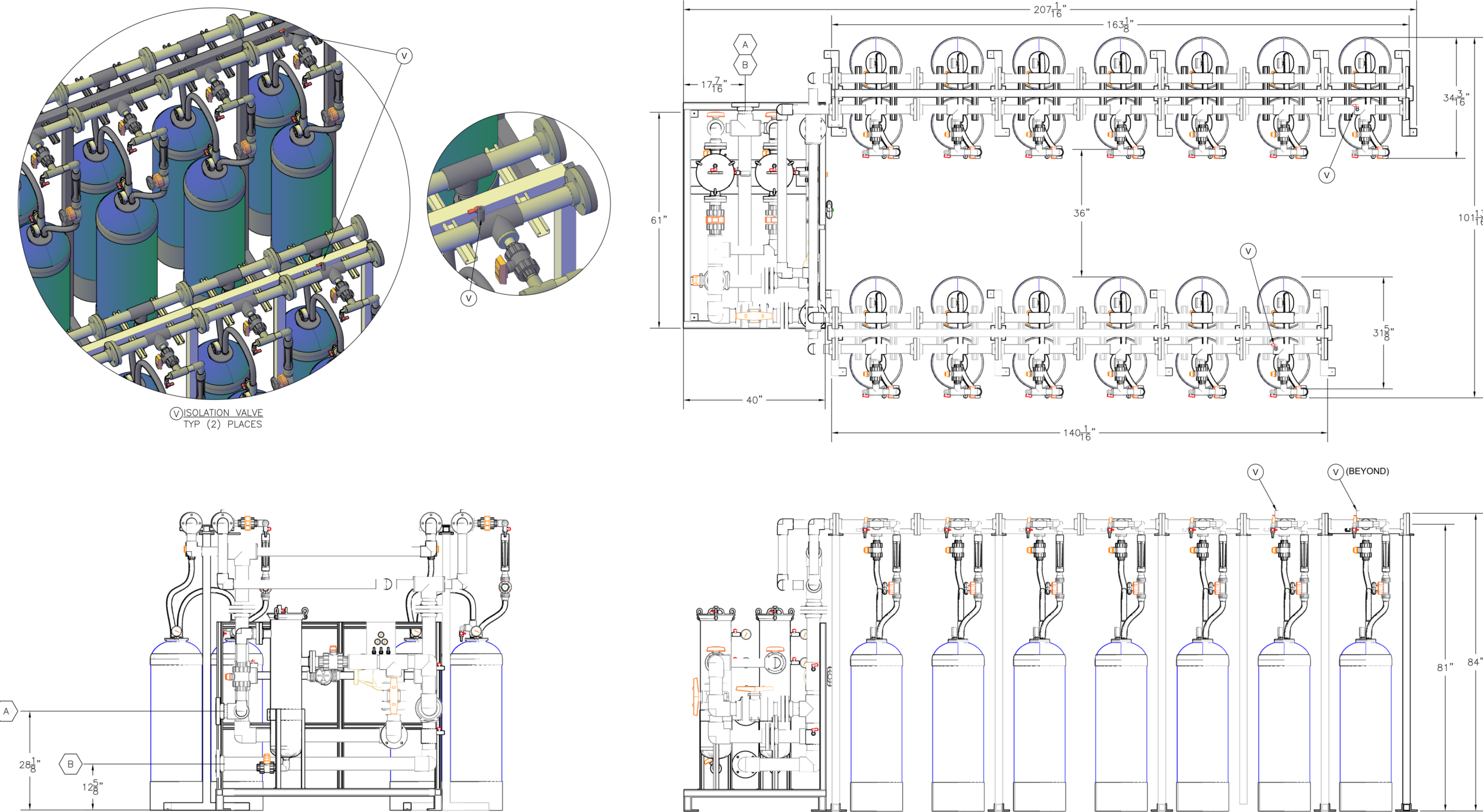
SHEET NO.
C3.1

TERRAMOR HOMES, BAKER, NO
ADEGE TREATMENT SYSTEM



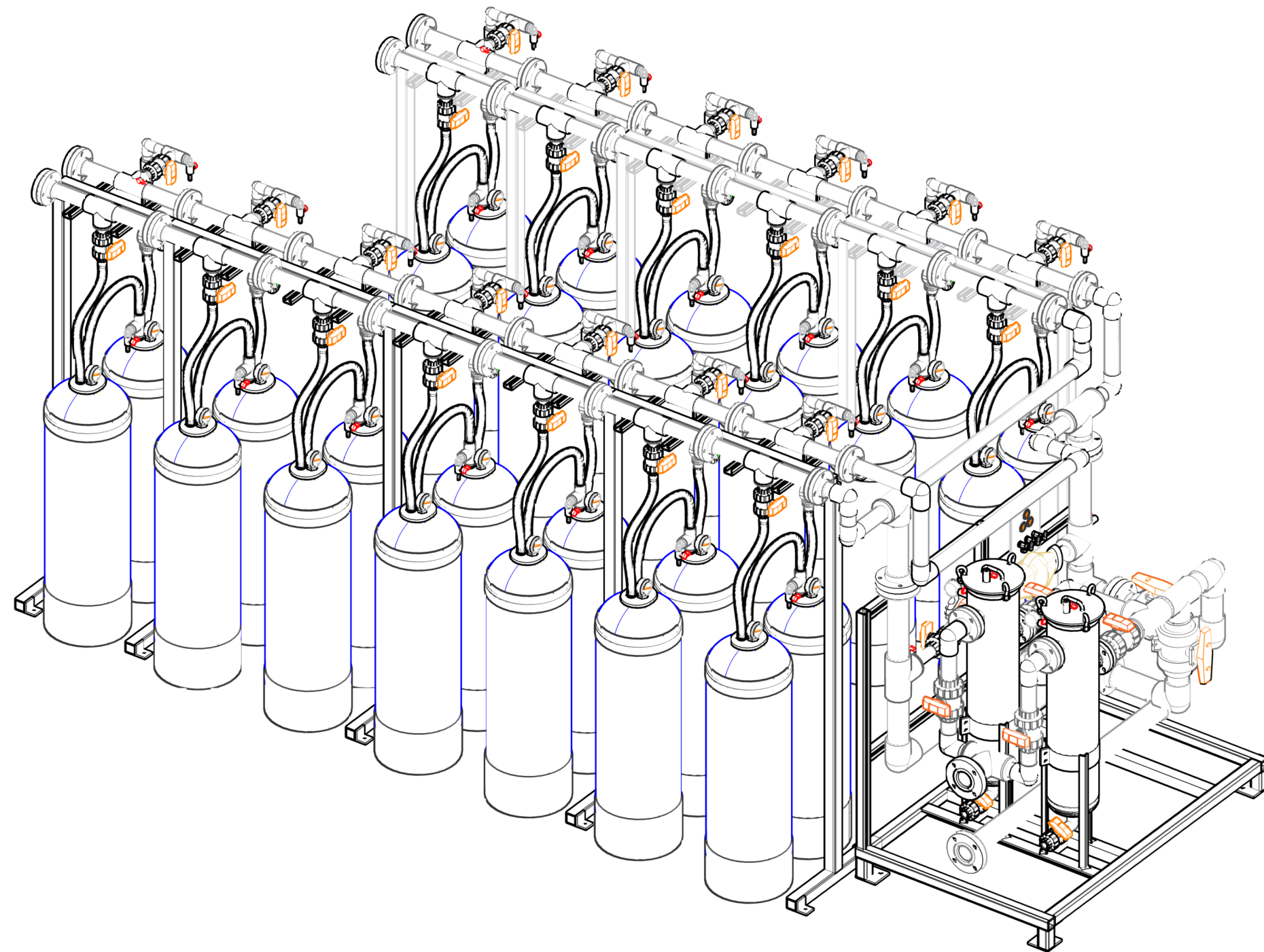
 2505 Bayview Road Quincy, IA 50086 P. 678-638-0052 F. 678-638-0057 www.adedgetechnologies.com	This drawing is the exclusive property of AdEdge Water Technologies, LLC. Its acceptance constitutes an agreement that it shall be expressly used for subject project and shall be returned upon request. Information contained on, or derived from this drawing, is not to be re-transmitted, duplicated, used or copied without prior authorization.										DATE: 8/15/21 NTS
	PROJECT NO. _____ SHEET NO. _____ REV. # DATE BY: APPROVED BY: DESIGN DESCRIPTION										
PROJECT: ADEGEE TREATMENT SYSTEM MODEL: ADEGEE-IX-1147EX-26-MW-LL											SCALE: TERAMOR HOMES, BAKER, MN
TITLE: COVER											PRELIMINARY

① AdEdge SYSTEM
6" = 1'-0"



 2005 Briggs Road Miami, FL 33099 P. 678-635-0052 F. 678-635-0057 www.adegetechnologies.com	This drawing is the exclusive property of AdEdge Water Technologies, LLC. Its disclosure constitutes an agreement that it shall be expressly used for subject project and shall be returned upon request. Information contained on, or derived from this drawing, is not to be communicated, disclosed, used or copied without prior authorization.																																													
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② AdEdge SYSTEM
6" = 1'-0"

[illegible]

③ AdEdge SYSTEM
6" = 1'-0"

T:\J055\21078 - Baker Community Well System - Franklin\CAD\21078 - E1_0.dwg | Plotted on 8/10/2021 4:47 PM | by Jeff Perion

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	VOLTS	VOLT-AMPS	FIXT EFF	LAMPS QTY	TYPE	DESCRIPTION	REMARKS
A	METALUX	4VT2-LD4-4-DR-UNV-L840-CD-1 WL	120/277	38		N/A	LED	4' SURFACE MOUNTED, SEALED AND GASKETED FIXTURE SUITABLE FOR WET LOCATIONS. 4000 LUMEN OUTPUT.	PROVIDE WITH STAINLESS STEEL MOUNTING BRACKETS CAT# VT2-SS-MBK. AS REQUIRED.
B	SPAULDING LIGHTING	LCC-12LU-2-PC1	120/277	12.8		N/A	LED	WALL MOUNTED FULL CUT-OFF EXTERIOR LED FIXTURE WITH 820 NOMINAL LUMENS. FIXTURE IS CONTROLLED BY INTEGRAL PHOTO-EYE.	

PANEL LP SCHEDULE

PANELBOARD CHARACTERISTICS:
VOLTS: 120/208
PHASES: 3
WIRES: 4
SOLID NEUTRAL, GROUND BAR

PHASE TO PHASE VOLTS: 208
PHASE TO NEUT. VOLTS: 120

MAIN LUGS: 200A
MINIMUM SHORT CIRCUIT RATING: 65K RMS SYM AMPS
SERIES RATED WITH UPSTREAM DEVICE

CKT. NO.	POLE NO.	DESCRIPTION	LOAD TYPE	CONN. KVA	CONN. AMPS			BREAKER		NO. & WIRE SIZE			COND. SIZE
					A	B	C	P	AT	PHASE	NEUT.	GND	
1	1	EXHAUST FAN EF-1 & MOTORIZED LOUVER	M	0.53	4.4			1	20	1#12	#12	#12	1/2"
3	3	TREATMENT CONTROLS	E	1		8.3		1	20	1#12	#12	#12	1/2"
5	5	RECEPTACLE	R	0.36			3.0	1	20	1#12	#12	#12	1/2"
7	7	RECEPTACLES	R	0.54	4.5			1	20	1#12	#12	#12	1/2"
9	9	RECEPTACLES	R	0.36		3.0		1	20	1#12	#12	#12	1/2"
11	11	RECEPTACLES	R	0.72			6.0	1	20	1#12	#12	#12	1/2"
13	13	LIGHTING	L	0.14	1.2			1	20	1#12	#12	#12	1/2"
15	15	AIR COMPRESSOR	M	0.41		3.4		1	15	1#12	#12	#12	1/2"
17	17	UH-1	M	2			9.6	2	30	2#10	#10	#10	1/2"
19	19					9.6							
21	21	WATER HEATER	E	13.92		66.9		2	30	2#10	#10	#10	1/2"
23	23						66.9						
25	25												
27	27												
29	29												
4	4	WELL PUMPS #3 & #4 VIA CONTROL PANEL	M	6.02		16.7		3	150	3.#2		1#6	1-1/2"
6	6					16.7							
8	8	CHEMICAL FEED PUMP	R	0.3	2.5			1	20	1#12	#12	#12	1/2"
10	10	HEAT TRACE	R	0.15		1.3		1	20	1#12	#12	#12	1/2"
12	12												
16	14												
16	16												
18	18												
20	20												
22	22												
24	24												
26	26												
28	28												
30	30												
					38.9	99.6	102.2						

CONNECTED LOADS
RECEPTACLE
LIGHTING
MECHANICAL
EQUIPMENT
KITCHEN

DEMAND FACTOR
FIRST 10 KVA @ 100%, REMAINDER@50%
100%
100%
100%
100%
USE TABLE 220.55 OR .6

2.43
0.14
9.0
14.9
100%

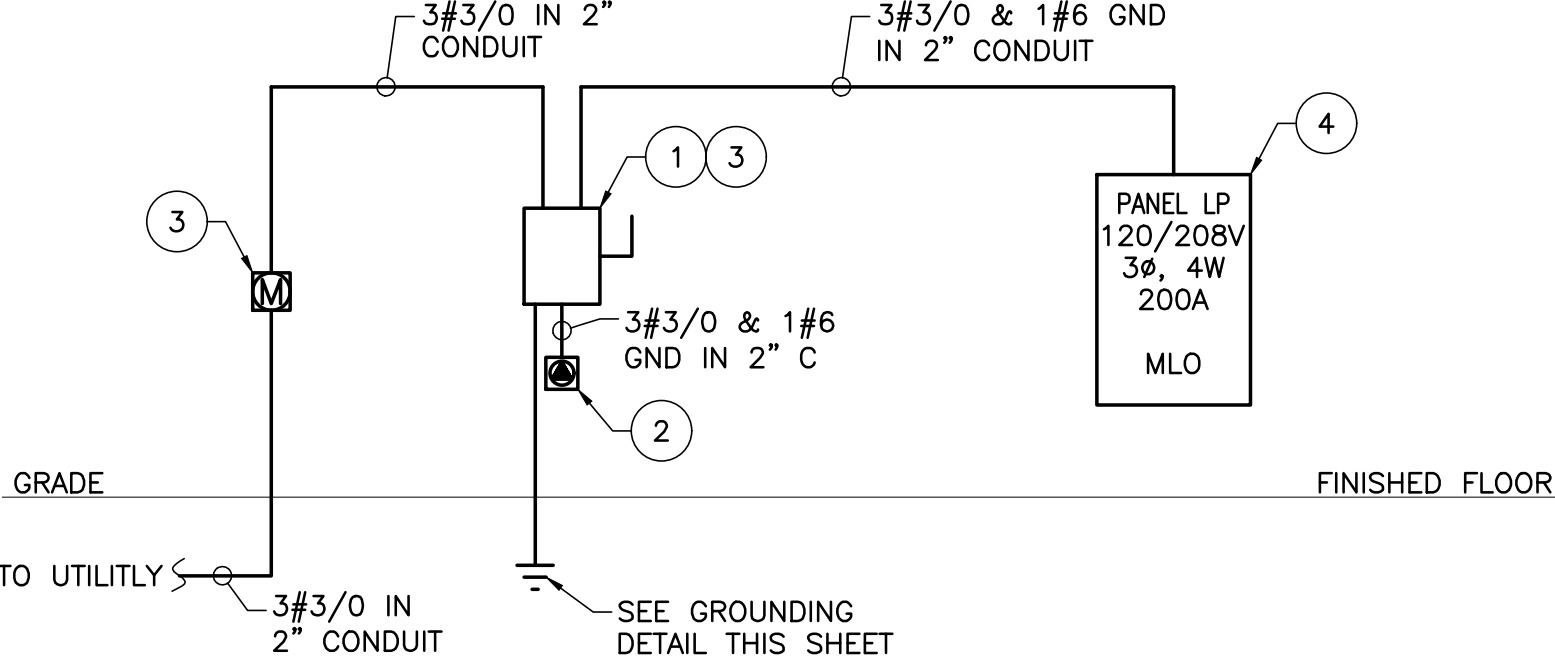
TOTAL KVA CONNECTED
FEEDER DEMAND AMPS
FEEDER SIZE AT 80%
25% SPARE CAPACITY

26.5
73.4
91.8
114.8
AMPS
AMPS
AMPS

2.43
0.14
8.96
14.92

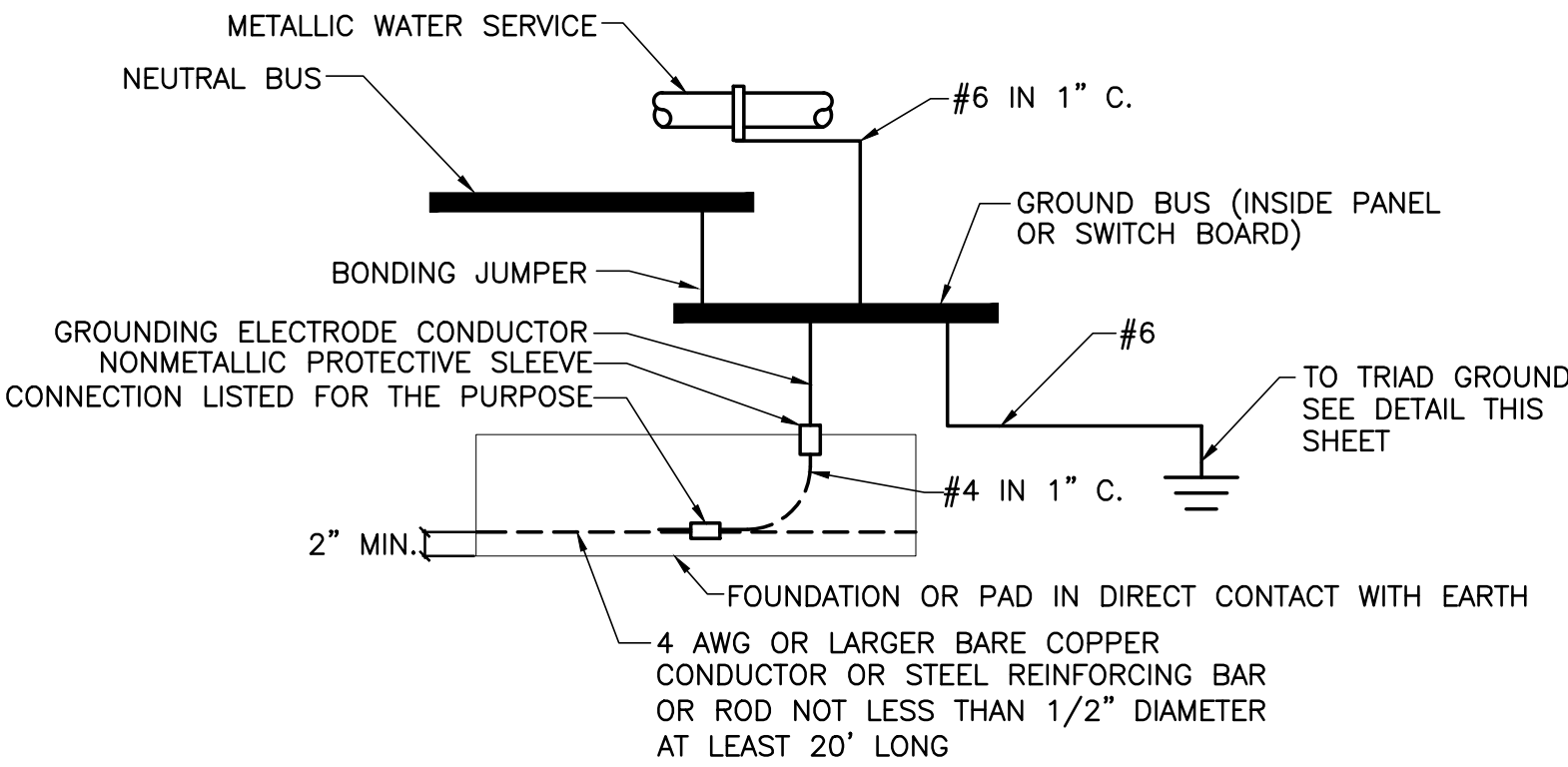
26.45

- 1 SERVICE ENTRANCE RATED MANUAL TRANSFER SWITCH, 240V, 200A, 3 POLE (SWITCHING NEUTRAL IN NEMA 4X ENCLOSURE. (PROVIDE WITH 200AA SERVICE BREAKER AND 200A GENERATOR BREAKER)
- 2 HUBBEL SINGLE POLE RECEPTACLES COORDINATE EXACT MODEL REQUIRED WITH OWNER (AQUA). PROVIDE WITH MATCHING CAPS. MOUNT IN NEMA 4X 24x24x12" BOX PER MANUFACTURERS DIRECTIONS. RECEPTACLES SHALL BE MOUNTED LEFT TO RIGHT: BLUE MALE RECEPTACLE (HOT), BLACK MALE RECEPTACLE (HOT), WHITE FEMALE RECEPTACLE (NEUTRAL) AND GREEN FEMALE RECEPTACLE (GROUND). RECEPTACLES MAY BE MOUNTED DIRECTLY IN THE TRANSFER SWITCH ENCLOSURE IF DOING SO DOES NOT VOID THE UL LISTING OR VIOLATE THE INTEGRITY OF THE 4X ENCLOSURE.
- 3 FOR WELL #5 UNIT SHALL BE MOUNTED ON RACK (SEE DETAIL ON SHEET E4.0). FOR WELL #3, UNIT IS TO BE MOUNTED ON EXTERIOR OF BUILDING (SEE SHEET E3.0).
- 4 PANEL FOR WELL #5 IS TO BE MOUNTED IN THE BUILDING (SEE SHEET E3.0). FOR WELL #3, PANEL SHALL BE MOUNTED ON RACK (SEE DETAILFIND #3 SHEET E4.0).

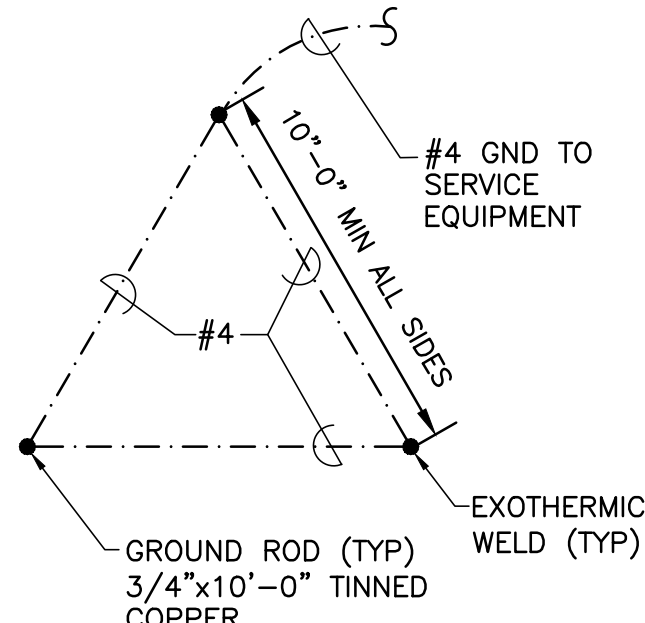


RISER DIAGRAM FOR WELLS #3 & #5
NOT TO SCALE

SPECIFIC NOTES:



GROUNDING DETAIL
SCALE: NONE



TRIAD GROUND DETAIL
NOT TO SCALE

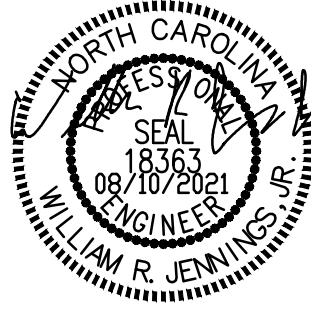
ELECTRIC LEGEND

- 1"x4" LED LIGHT FIXTURE. UPPERCASE LETTER INDICATES TYPE. LOWERCASE LETTER INDICATES SWITCHING.
- INCANDESCENT, HID, FLUORESCENT OR LED FIXTURE, WALL MOUNTED. LETTER INDICATES TYPE.
- SWITCH, SINGLE POLE, MOUNT 48" AFF, UON.
- SWITCH, THREE WAY, MOUNT 48" AFF, UON.
- SWITCH, FOUR POLE, MOUNT 48" AFF, UON.
- OCCUPANCY SENSOR. DUAL TECHNOLOGY, INFRARED AND ULTRASONIC
- SWITCH, IN WEATHERPROOF ENCLOSURE. UON.
- SNAP STYLE DISCONNECT SWITCH. # INDICATE NUMBER OF POLES
- RECEPTACLE, DUPLEX, NEMA 5-20R, WALL MOUNTED 18" AFF, UON. AC= MOUNT 6" ABOVE COUNTER, WP=WEATHERPROOF, IG=ISOLATED GROUND, CTR=COUNTER LEVEL xx"AFF=MOUNTING HEIGHT, EWC=ELECTRIC WATER COOLER T=TAMPER RESISTANT
- GROUND FAULT INTERRUPTER RECEPTACLE, NEMA 5-20R, UON. 18" AFF, UON. PROVIDE A DEVICE WITH INTEGRAL GROUND FAULT INTERRUPTER.
- QUAD RECEPTACLE, NEMA 5-20R, UON. 18" AFF UON.
- MOTOR CONNECTION
- DISCONNECT
- EQUIPMENT CONNECTION
- HOMERUN
- PARTIAL HOMERUN, INDICATES MORE THAN 1 CIRCUIT OFF BRANCH BREAKER

ABBREVIATIONS

- AC ABOVE COUNTER
AFCI ARC FAULT CIRCUIT INTERRUPTER
AFF ABOVE FINISHED FLOOR
ATS AUTOMATIC TRANSFER SWITCH
BKR BREAKER
C CONDUIT
CKT(S) CIRCUIT(S)
OFIC OWNER FURNISHED, INSTALLED BY CONTRACTOR
GFI GROUND FAULT INTERRUPTER
GND GROUND
IG ISOLATED GROUND
KW KILOWATT
NIC NOT IN CONTRACT
PNL PANEL
UON UNLESS OTHERWISE NOTED
V VOLTS
VA VOLT-AMPERES
VP VAPOR PROOF
W WATTS
WP WEATHER PROOF

W1300 Sub 97



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WRJ

CHECKED BY
WRJ

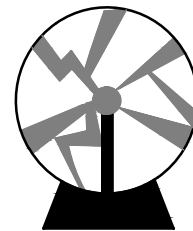
SCALE

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
BAKER COMMUNITY WELL
YOUNGSVILLE, FRANKLIN COUNTY -- NORTH CAROLINA
PUMP STATION PLANS - ELECTRICAL

YOUNGSVILLE, FRANKLIN COUNTY -- NORTH CAROLINA
PUMP STATION PLANS - ELECTRICAL

JOB NO.
48490
SHEET NO.
E1.0

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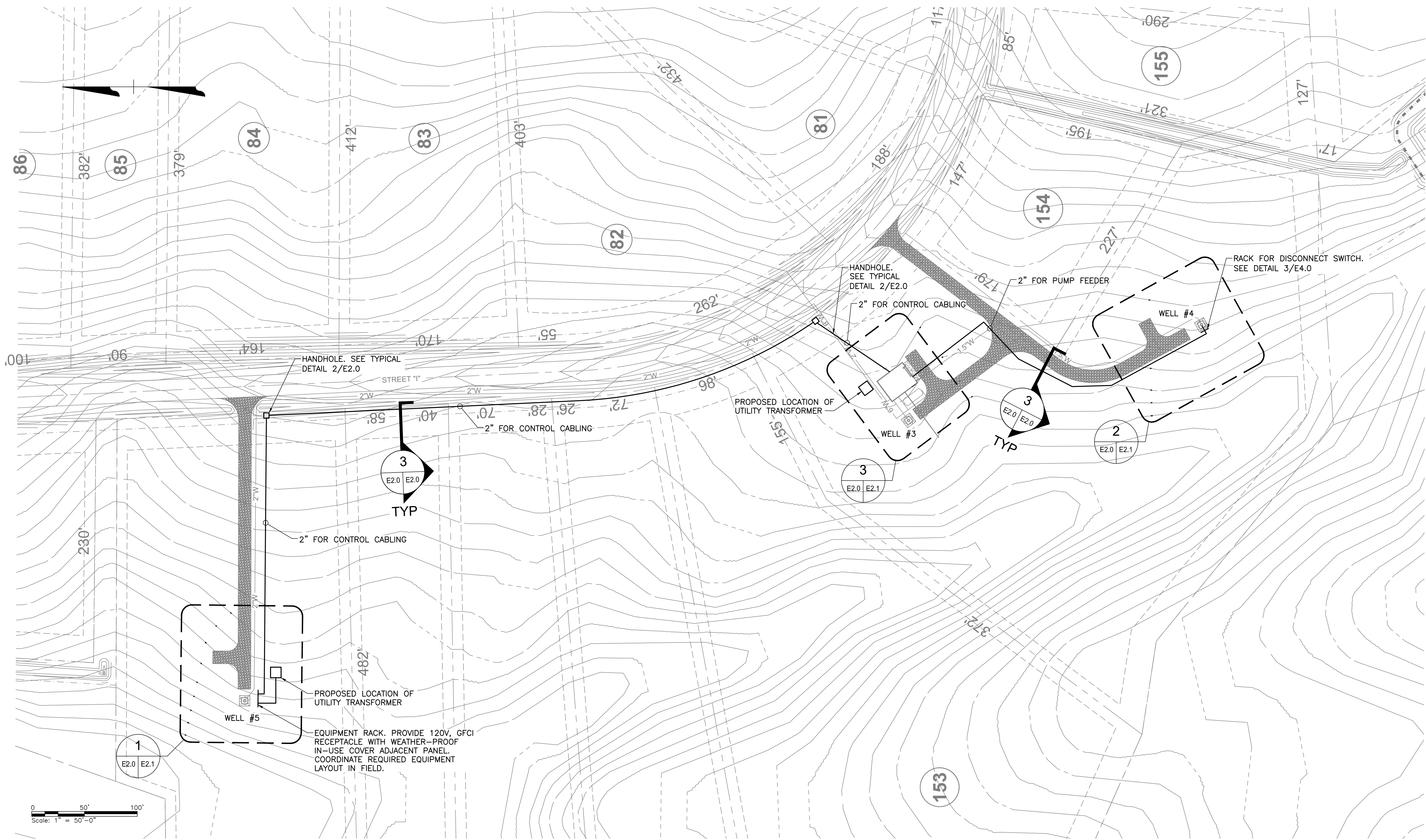


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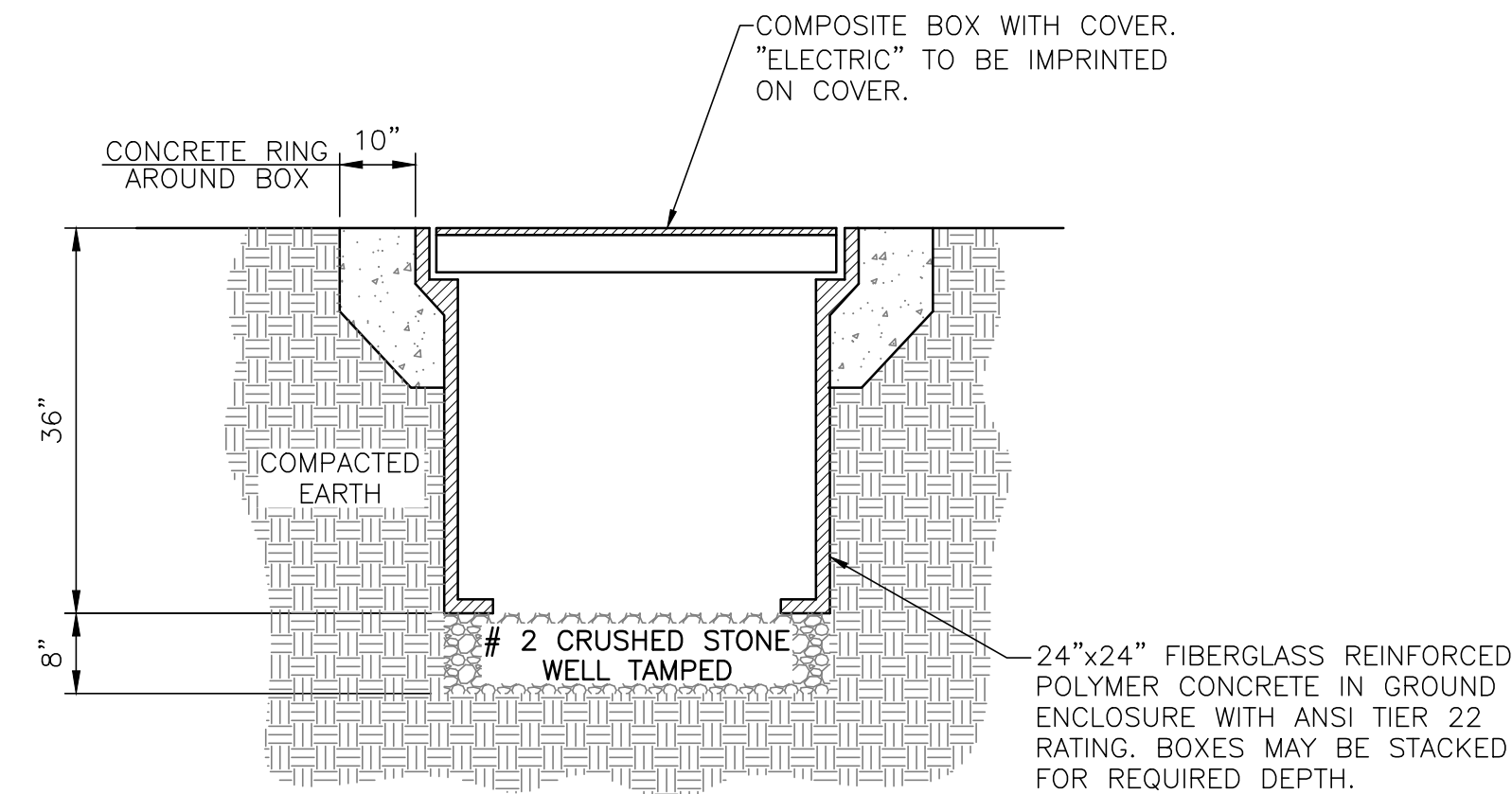
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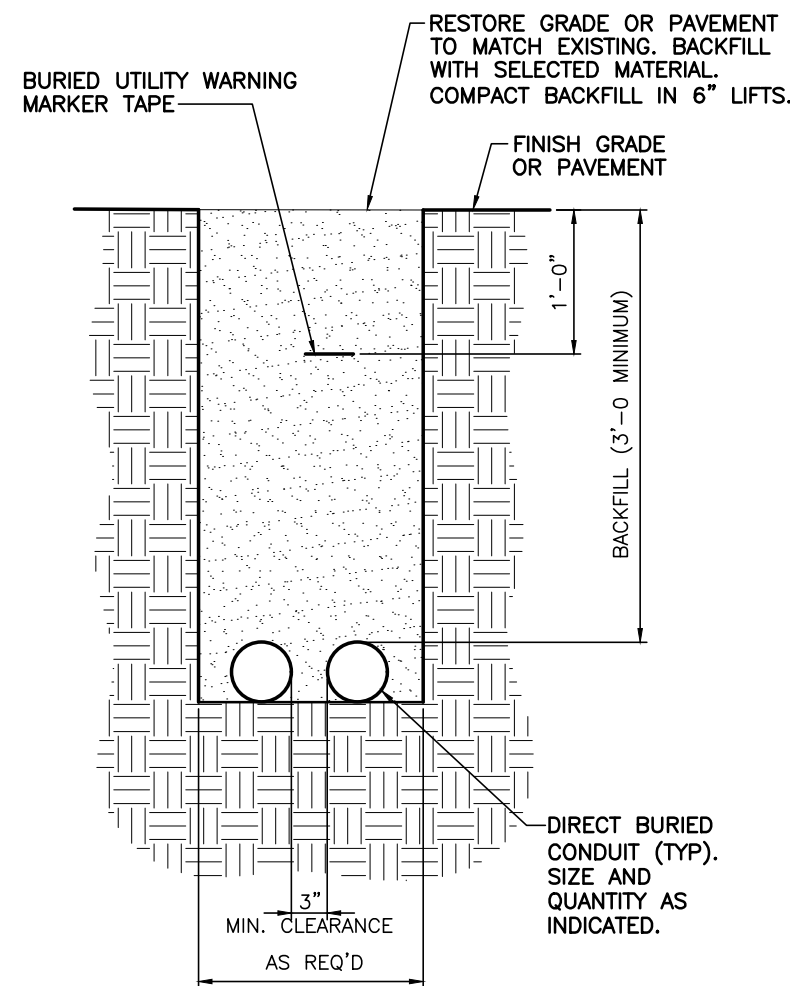
T:\JOBS\21078 - Baker Community Well System - Franklin\CAD\21078 - E2_0.dwg | Plotted on 8/10/2021 4:47 PM | by: Jeff Porten



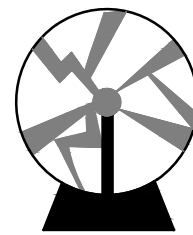
1 OVERALL WELL SITE PLAN - ELECTRICAL
SCALE: 1" = 50'-0"



2 TYPICAL HANDHOLE INSTALLATION DETAIL
NOT TO SCALE



3 TYPICAL CONDUIT DIRECT BURY DETAIL
NOT TO SCALE



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TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

BAKER COMMUNITY WELL

YOUNGSVILLE, FRANKLIN COUNTY -- NORTH CAROLINA

OVERALL WELL SITE PLAN - ELECTRICAL

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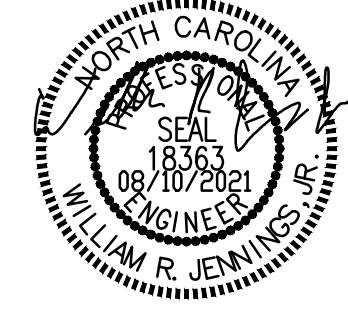
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REVISION DESCRIPTION	
DATE	
8/10/2021	
DRAWN BY	JTP
DESIGNED BY	WRJ
CHECKED BY	WRJ
SCALE	

JOB NO. 48490
SHEET NO. E2.0

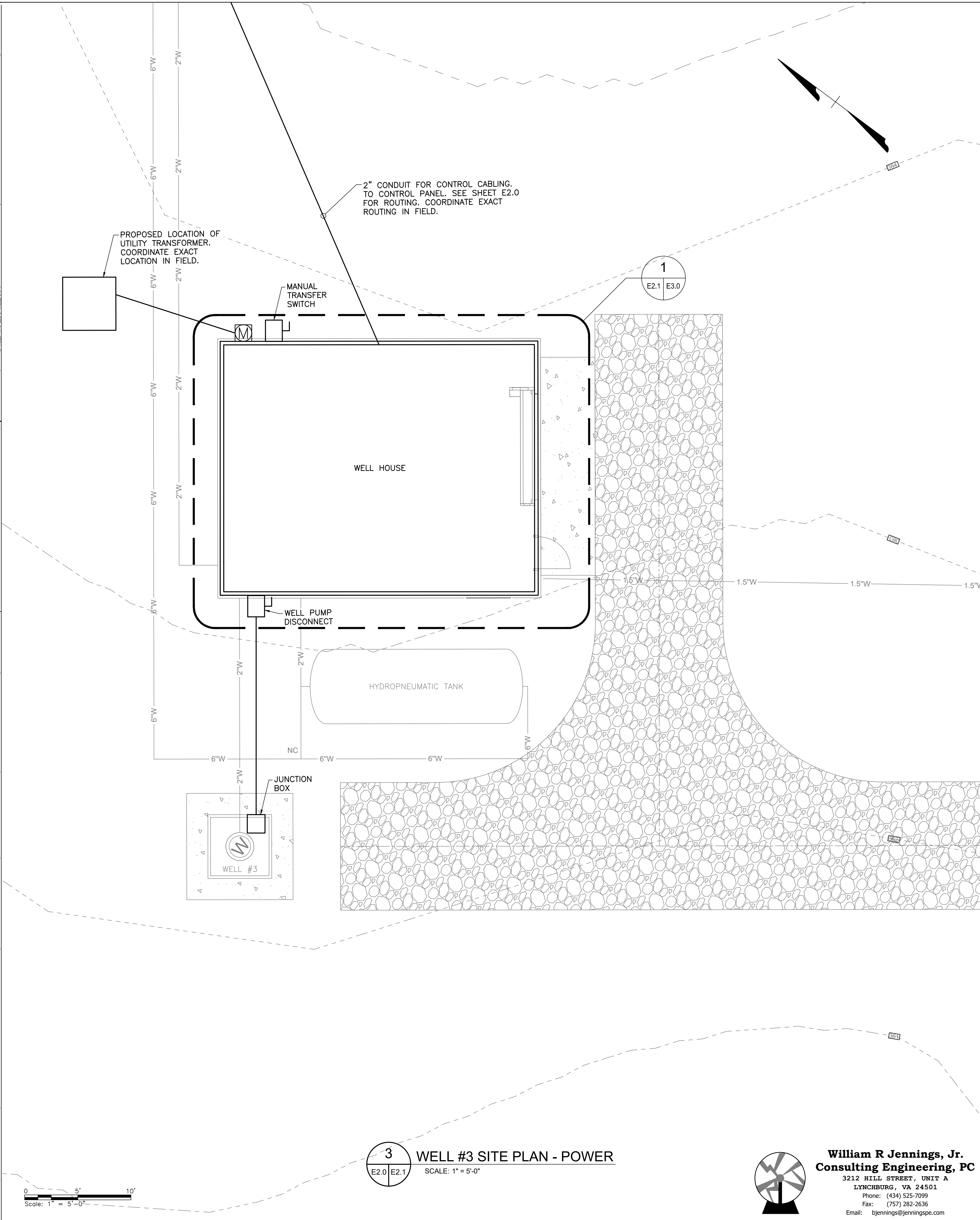
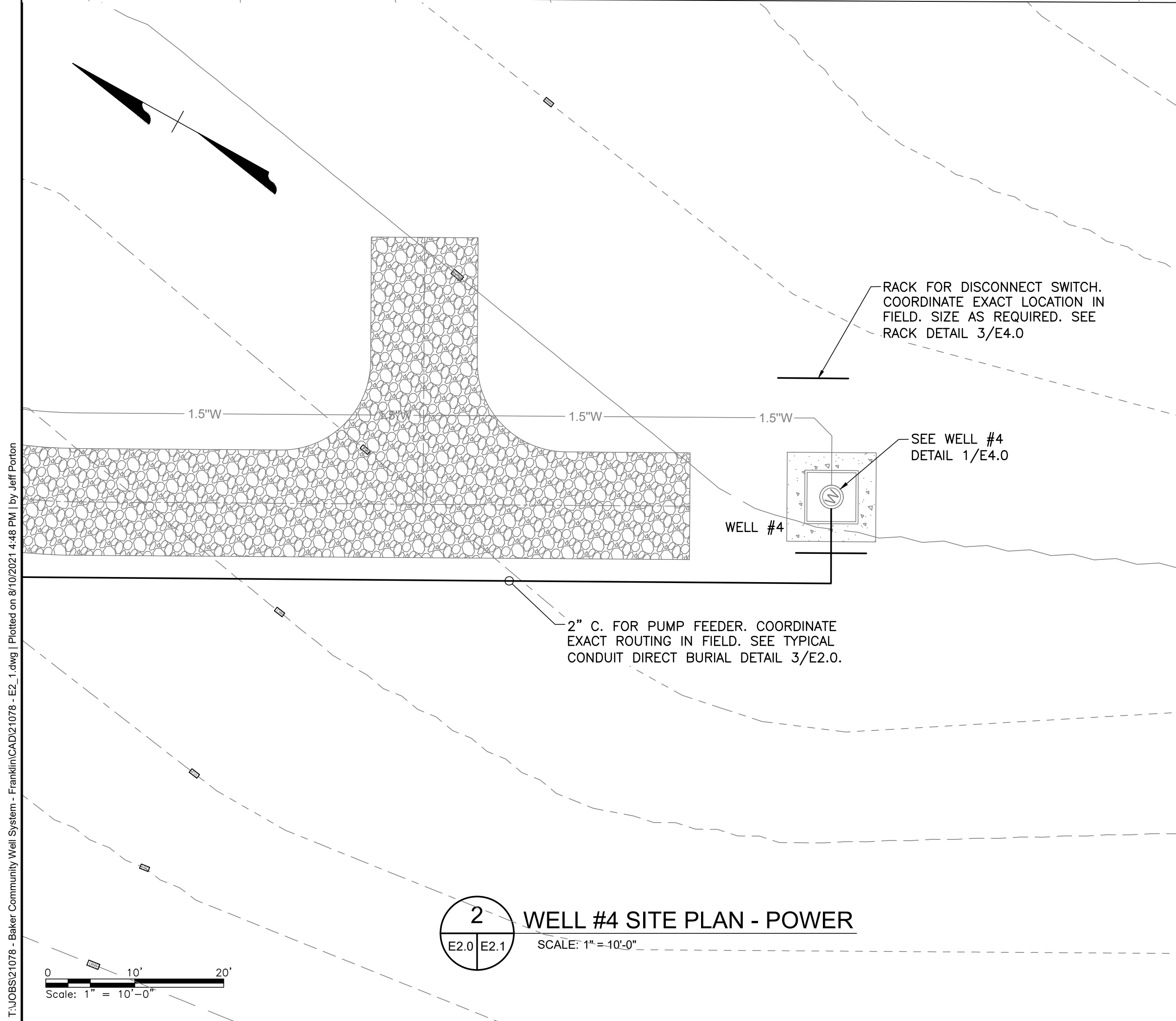
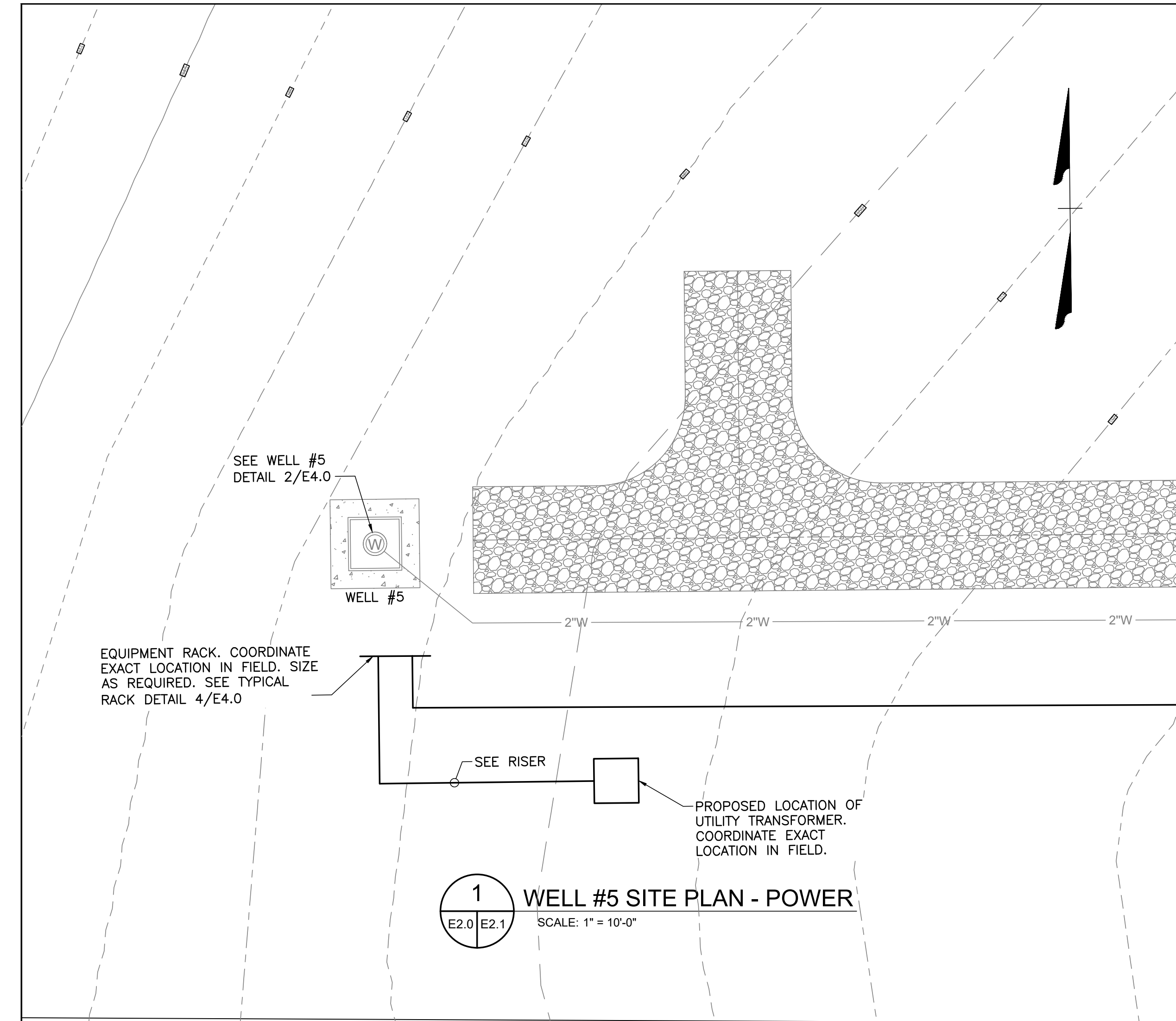
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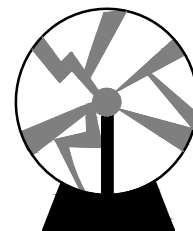
REVISION DESCRIPTION

DATE	
DATE	8/10/2021
DRAWN BY	JTP
DESIGNED BY	WRJ
CHECKED BY	WRJ
SCALE	

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
BAKER COMMUNITY WELL
YOUNGSVILLE, FRANKLIN COUNTY -- NORTH CAROLINA
WELL SITE PLANS - ELECTRICAL

JOB NO.
48490

SHEET NO.
E2.1

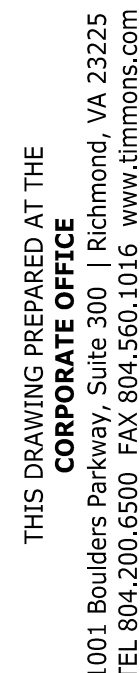


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WRJ

SCALE

TIMMONS GROUP

BAKER COMMUNITY WELL

YOUNGSVILLE, FRANKLIN COUNTY -- NORTH CAROLINA

WEI | HOUSE FLOOR PLAN AND SECTIONS - ELECTRICAL

JOB NO.
4849

SHEET NO
E3.0

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1 FF-1: PROVIDE WALL MOUNTED EXHAUST FAN EQUAL TO GREENHECK MODEL CUE-100 (1000 CFM AT 3/8 INWG, 1400 RPM, 9 SONES, 1/6 HP MOTOR, 120V/1 PHASE, 60 LBS APPROXIMATE WEIGHT, 22 INCH BY 22 INCH WALL OPENING). COVER FAN INTAKE WITH ALUMINUM BIRDSCREEN. PROVIDE FAN WITH BACKDRIFT DAMPER. PROVIDE WITH FAN DELAY RELAY SO THAT ASSOCIATED MOTORIZED DAMPER SHALL FULLY OPEN BEFORE RE-ENERGIZED. PROVIDE FAN WITH DISCONNECT SWITCH. PROVIDE WITH REMOTE WALL MOUNTED MOTOR STARTER. COORDINATE MOTOR STARTER WITH SPEED CONTROLLER.

- A. PROVIDE: FAN SHALL BE DIRECT DRIVE WITH ELECTRONICALLY COMMUTED MOTOR. MOTOR SHALL INCLUDE MANUFACTURER SPEED CONTROLS (EQUAL TO GREENHECK VARI-GREEN INDOOR AIR QUALITY - TEMPERATURE/HUMIDITY CONTROL. FANS SHALL AUTOMATICALLY VARY SPEED BASED ON SPACE TEMPERATURE. SET THERMOSTAT FOR 85 DEG F SETPOINT.

- 2 MOUNT TOP OF FAN APPROXIMATELY 18 INCHES BELOW ROOF LINE.
COORDINATE WALL OPENING WITH BUILDING SUPPLIER.

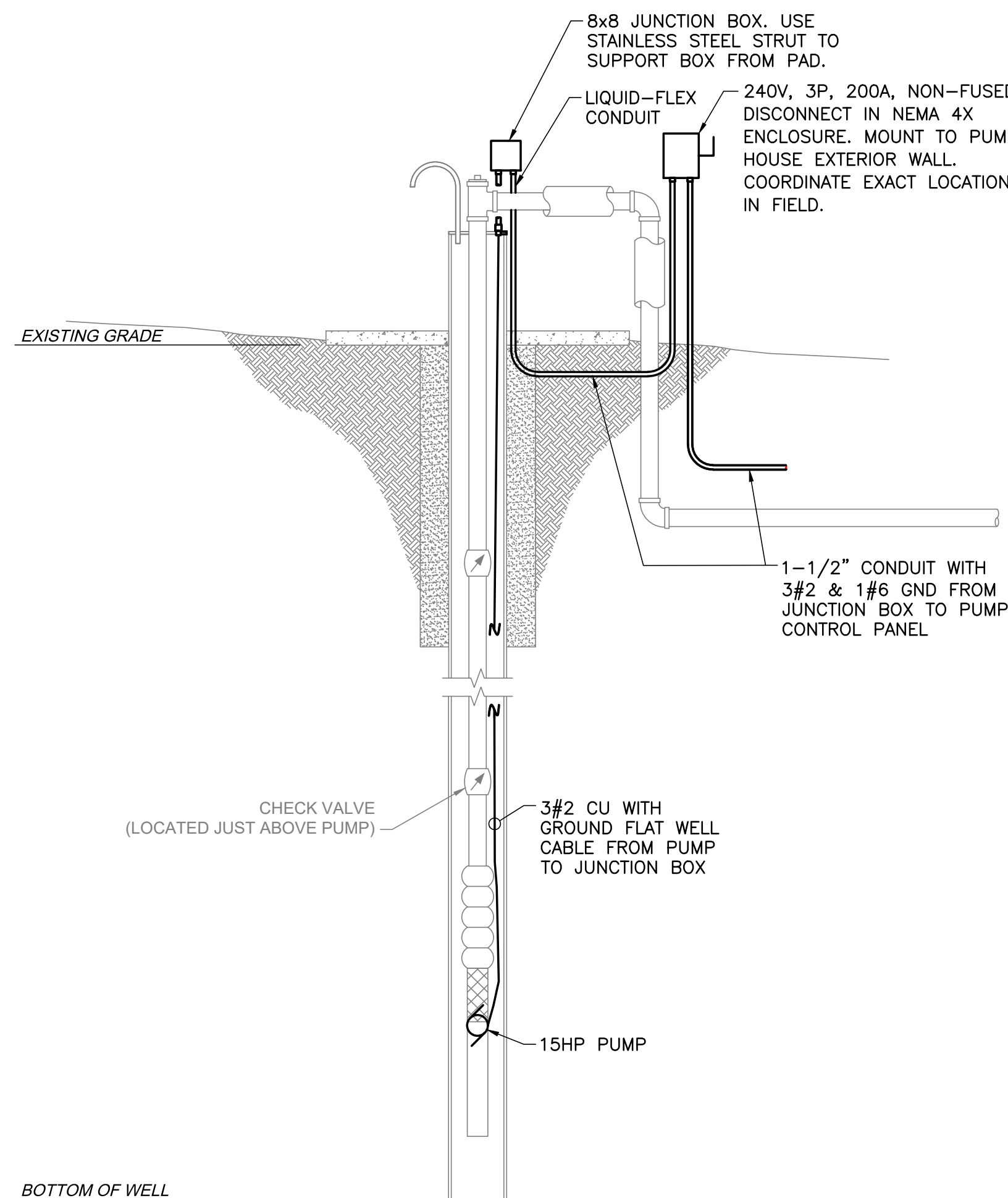
- 3 PROVIDE THERMOSTAT FOR CONTROL OF EXHAUST FAN. COORDINATE WITH SPEED CONTROLLER.

- ④ UH-1: HORIZONTAL PROPELLER UNIT HEATER: PROVIDE ELECTRIC UNIT HEATER EQUAL TO REZINOR EGH8-2-AK2 (2KW, 510 CFM, 240/208V, 1 PHASE, 8.3 AMPS, 24 VOLT CONTROLS). PROVIDE WITH CONTROLS TRANSFORMER, FACTORY INSTALLED SUMMER FAN SWITCH, FACTORY INSTALLED DISCONNECT, BUILT-IN THERMOSTAT AND FACTORY EPOXY COATING. PROVIDE WITH WALL MOUNTED BRACKET AND MOUNTING ARM. MOUNT BOTTOM APPROXIMATELY 7 FT ABOVE FINISHED FLOOR.

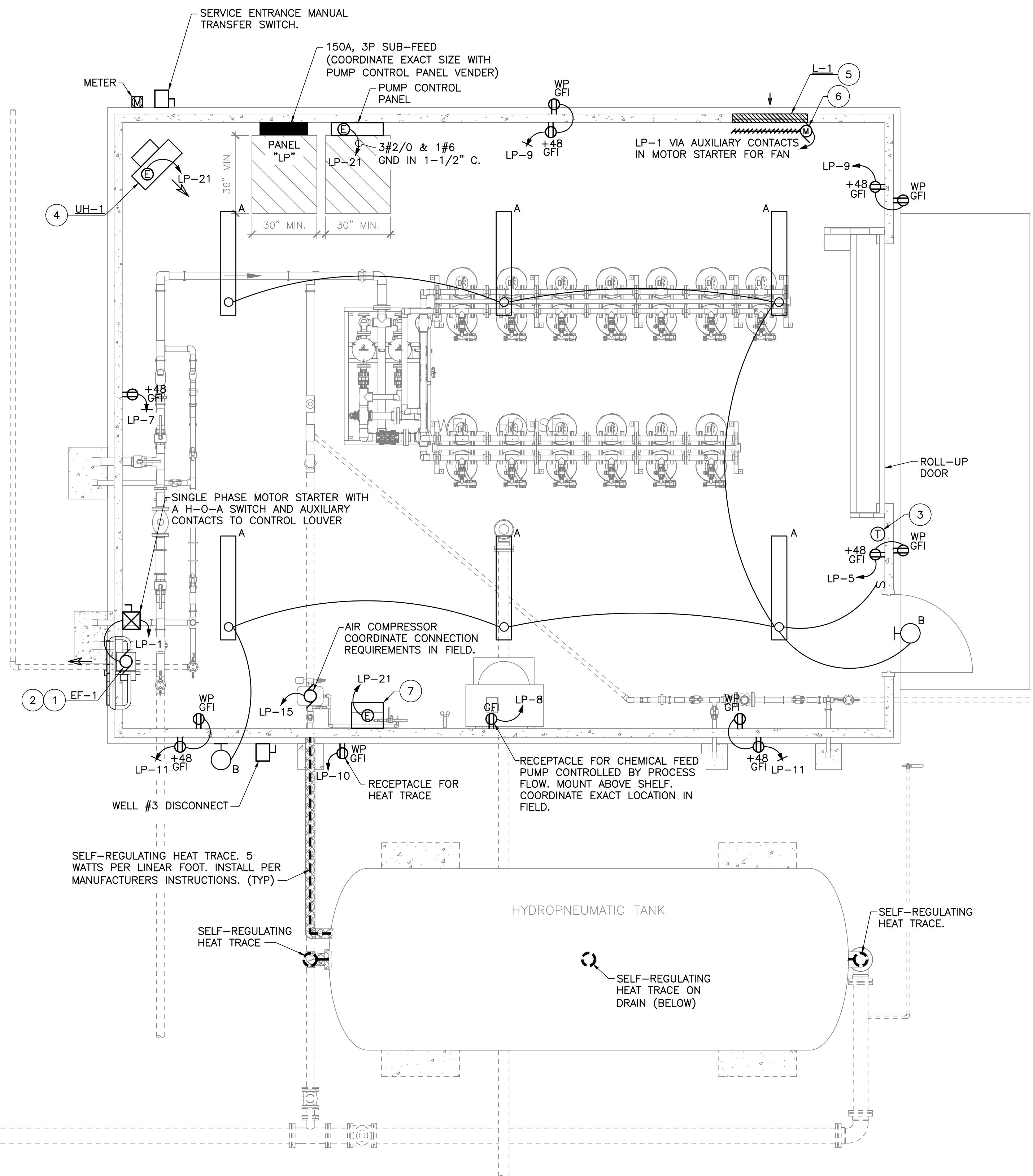
- 5 1-1: PROVIDE STATIONARY INTAKE LOUVER 18 INCHES X 24 INCHES WIDE, EQUAL TO GREENHECK MODEL EHM-601. PROVIDE DAMPER CONNECTION REQUIRED TO LOUVER. FRAME SHALL BE HEAVY GAUGE EXTRUDED 6063-T5 ALUMINUM WITH 45 DEGREE ANGLED STATIONARY DUAL DRAINABLE BLADES. COVER INLET WITH ALUMINUM BIRDSCREEN. LOUVER FINISH SHALL BE FACTORY BAKED /ENAMEL PAINT, COLOR TO MATCH DOORS AND FRAME ON BUILDING - COORDINATE WITH BUILDING SUPPLIER. MOUNT BOTTOM OF LOUVER 12 INCHES ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH BUILDING SUPPLIER.

6. PROVIDE NORMALLY CLOSED MOTORIZED DAMPER INTERLOCKED WITH EXHAUST FAN TO SERVE INTAKE LOUVER. PROVIDE LINE VOLTAGE RELAY SUCH THAT MOTORIZED DAMPER SHALL OPEN WHEN FAN RECEIVES SIGNAL TO ENERGIZE FROM FAN/THERMOSTAT. DAMPER SHALL BE CLOSED IF FAN IS OFF.

- 7 PROVIDE WATER HEATER EQUAL TO CHRONOMITE LABS MODEL R-58L/200 (208V SINGLE PHASE, GENERAL PURPOSE ELECTRIC TANKLESS WATER HEATER, 12,064W, 58A). COORDINATE EXACT LOCATION IN FIELD.

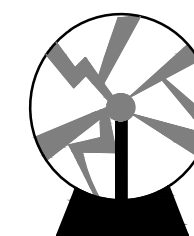


2 WELL #3 DETAIL - ELECTRICAL
E3.0 E3.0 NOT TO SCALE

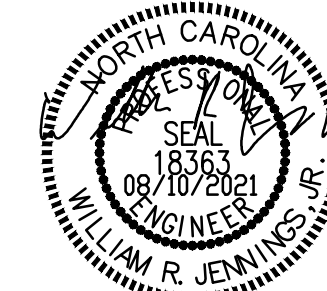


1 WELL HOUSE FLOOR PLAN - POWER

E2.1 E3.0 SCALE: 3/8" = 1'-0"



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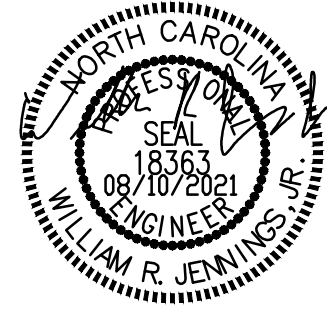
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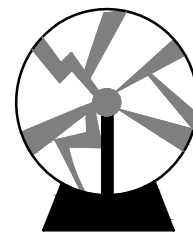
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BAKER COMMUNITY WELL
YOUNGSVILLE, FRANKLIN COUNTY -- NORTH CAROLINA

SPECIFICATIONS

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48490	
SHEET NO.	E5.0

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PROVIDE ISOLATED ALARM CONTACT.

CONTROL ACCESSORIES

AUXILIARY CONTACTS:

COMPLY WITH NEMA ICS 5.

PROVIDE NUMBER AND TYPE OF CONTACTS INDICATED OR REQUIRED TO PERFORM NECESSARY FUNCTIONS, INCLUDING HOLDING (SEAL-IN) CIRCUIT AND INTERLOCKING, PLUS ONE NORMALLY OPEN (NO) AND ONE NORMALLY CLOSED (NC) SPARE CONTACT FOR EACH MAGNETIC MOTOR STARTER, MINIMUM.

PILOT DEVICES:

COMPLY WITH NEMA ICS 5; HEAVY-DUTY TYPE.

SELECTOR SWITCHES: UNLESS OTHERWISE INDICATED, PROVIDE MAINTAINED, NON-ILLUMINATED TYPE WITH KNOB OPERATOR; NUMBER OF SWITCH POSITIONS AS INDICATED OR AS REQUIRED.

INDICATING LIGHTS: PUSH-TO-TEST TYPE UNLESS OTHERWISE INDICATED.

PROVIDE LED LAMP SOURCE FOR INDICATING LIGHTS AND ILLUMINATED DEVICES.

CONTROL POWER TRANSFORMERS:

SIZE TO ACCOMMODATE BURDEN OF CONTACTOR COIL(S) AND ALL CONNECTED AUXILIARY DEVICES, PLUS 50 VA SPARE CAPACITY.

INCLUDE PRIMARY AND SECONDARY FUSES.

SECTION 26 3600 – TRANSFER SWITCHES

TRANSFER SWITCHES

PROVIDE COMPLETE POWER TRANSFER SYSTEM CONSISTING OF ALL REQUIRED EQUIPMENT, CONDUIT, BOXES, WIRING, SUPPORTS, ACCESSORIES, SYSTEM PROGRAMMING, ETC. AS NECESSARY FOR A COMPLETE OPERATING SYSTEM THAT PROVIDES THE FUNCTIONAL INTENT INDICATED.

PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.

APPLICATIONS:

UTILIZE OPEN TRANSITION TRANSFER UNLESS OTHERWISE INDICATED OR REQUIRED.

CONSTRUCTION TYPE: ONLY "CONTACTOR TYPE" (OPEN CONTACT) TRANSFER SWITCHES ARE ACCEPTABLE. DO NOT USE "BREAKER TYPE" (ENCLOSED CONTACT) TRANSFER SWITCHES.

AUTOMATIC TRANSFER SWITCH:

TRANSFER SWITCH TYPE: SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH.

TRANSITION CONFIGURATION: DELAYED-TRANSITION (WITH NEUTRAL POSITION).

VOLTAGE: AS INDICATED ON THE DRAWINGS.

AMPERE RATING: AS INDICATED ON THE DRAWINGS.

NEUTRAL CONFIGURATION: SWITCHED NEUTRAL.

LOAD SERVED: AS INDICATED ON THE DRAWINGS.

PRIMARY SOURCE: AS INDICATED ON THE DRAWINGS.

ALTERNATE SOURCE: AS INDICATED ON THE DRAWINGS.

MANUAL TRANSFER SWITCH:

COMPLY WITH NEMA ICS 10 PART 1, AND LIST AND LABEL AS COMPLYING WITH UL 1008 FOR THE CLASSIFICATION OF THE INTENDED APPLICATION (E.G. EMERGENCY, OPTIONAL STANDBY).

DO NOT USE DOUBLE THROW SAFETY SWITCHES OR OTHER EQUIPMENT NOT SPECIFICALLY DESIGNED FOR POWER TRANSFER APPLICATIONS AND LISTED AS TRANSFER SWITCH EQUIPMENT.

SWITCHING METHODS:

DELAYED TRANSITION:

PROVIDE BREAK-BEFORE-MAKE TRANSFER WITH PROGRAMMABLE TIME DELAY IN A NEUTRAL POSITION NOT CONNECTED TO EITHER SOURCE, AND WITH INTERLOCKS TO PREVENT SIMULTANEOUS CONNECTION OF THE LOAD TO BOTH SOURCES.

NEUTRAL SWITCHING: EITHER SIMULTANEOUSLY SWITCHED NEUTRAL (BREAK-BEFORE-MAKE) OR OVERLAPPING NEUTRAL (MAKE-BEFORE-BREAK) METHODS ARE ACCEPTABLE.

MANUAL TRANSFER SWITCHES:

SERVICE ENTRANCE RATED TRANSFER SWITCHES:

LISTED AND LABELED AS SUITABLE FOR USE AS SERVICE EQUIPMENT ACCORDING TO UL 869A.

SECTION 26 4300 -- SURGE PROTECTIVE DEVICES

SURGE PROTECTIVE DEVICES - GENERAL REQUIREMENTS

DESCRIPTION: FACTORY-ASSEMBLED SURGE PROTECTIVE DEVICES (SPDS) FOR 60 HZ SERVICE; LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED; SYSTEM VOLTAGE AS INDICATED ON THE DRAWINGS.

PROTECTED MODES:

WYE SYSTEMS: L-N, L-G, N-G, L-L.

UL 1449 VOLTAGE PROTECTION RATINGS (VPRS):

208Y/120V SYSTEM VOLTAGE: NOT MORE THAN 1,000 V FOR L-N, L-G, AND N-G MODES AND 1,200 V FOR L-L MODE.

EQUIPMENT CONTAINING FACTORY-INSTALLED, INTERNALLY MOUNTED SPDS: LISTED AND LABELED AS A COMPLETE ASSEMBLY INCLUDING SPD.

PROVIDE IN ALL PANELBOARDS

SERVICE EQUIPMENT.

INDUSTRIAL CONTROL PANELS.

IDENTIFICATION FOR CONDUCTORS AND CABLES:

USE UNDERGROUND WARNING TAPE TO IDENTIFY DIRECT BURIED CABLES.

IDENTIFICATION NAMEPLATES AND LABELS

IDENTIFICATION NAMEPLATES:

MATERIALS:

INDOOR CLEAN, DRY LOCATIONS: USE PLASTIC NAMEPLATES.

OUTDOOR LOCATIONS: USE PLASTIC NAMEPLATES SUITABLE FOR EXTERIOR USE.

PLASTIC NAMEPLATES: TWO-LAYER OR THREE-LAYER LAMINATED ACRYLIC OR ELECTRICALLY NON-CONDUCTIVE PHENOLIC WITH BEVELED EDGES; MINIMUM THICKNESS OF 1/16 INCH; ENGRAVED TEXT.

IDENTIFICATION LABELS:

MATERIALS: USE SELF-ADHESIVE LAMINATED PLASTIC LABELS; UV, CHEMICAL, WATER, HEAT, AND ABRASION RESISTANT.

TEXT: USE FACTORY PRE-PRINTED OR MACHINE-PRINTED TEXT. DO NOT USE HANDWRITTEN TEXT UNLESS OTHERWISE INDICATED.

UNDERGROUND WARNING TAPE

MATERIALS: USE FOIL-BACKED DETECTABLE TYPE POLYETHYLENE TAPE SUITABLE FOR DIRECT BURIAL, UNLESS OTHERWISE INDICATED.

FOIL-BACKED DETECTABLE TYPE TAPE: 3 INCHES WIDE, WITH MINIMUM THICKNESS OF 5 MIL, UNLESS OTHERWISE REQUIRED FOR PROPER DETECTION.

SECTION 26 2416 – PANELBOARDS

PANELBOARDS - GENERAL REQUIREMENTS

PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.

SHORT CIRCUIT CURRENT RATING:

LISTED SERIES RATINGS ARE NOT ACCEPTABLE.

BUSSING: SIZED IN ACCORDANCE WITH UL 67 TEMPERATURE RISE REQUIREMENTS.

ENCLOSURES: COMPLY WITH NEMA 250, AND LIST AND LABEL AS COMPLYING WITH UL 50 AND UL 50E.

FUTURE PROVISIONS: PREPARE ALL UNUSED SPACES FOR FUTURE INSTALLATION OF DEVICES INCLUDING BUSSESS, CONNECTORS, MOUNTING HARDWARE AND ALL OTHER REQUIRED PROVISIONS.

SURGE PROTECTIVE DEVICES: WHERE FACTORY-INSTALLED, INTERNALLY MOUNTED SURGE PROTECTIVE DEVICES ARE PROVIDED IN ACCORDANCE WITH SECTION 26 4300, LIST AND LABEL PANELBOARDS AS A COMPLETE ASSEMBLY INCLUDING SURGE PROTECTIVE DEVICE.

LOAD CENTERS ARE NOT ACCEPTABLE.

LIGHTING AND APPLIANCE PANELBOARDS

DESCRIPTION: PANELBOARDS COMPLYING WITH NEMA PB 1, LIGHTING AND APPLIANCE BRANCH CIRCUIT TYPE, CIRCUIT BREAKER TYPE, AND LISTED AND LABELED AS COMPLYING WITH UL 67; RATINGS, CONFIGURATIONS AND FEATURES AS INDICATED ON THE DRAWINGS.

CONDUCTOR TERMINATIONS:

MAIN AND NEUTRAL LUG MATERIAL: ALUMINUM, SUITABLE FOR TERMINATING ALUMINUM OR COPPER CONDUCTORS.

MAIN AND NEUTRAL LUG TYPE: MECHANICAL.

BUSSING:

PHASE AND NEUTRAL BUS MATERIAL: ALUMINUM.

GROUND BUS MATERIAL: ALUMINUM.

CIRCUIT BREAKERS: THERMAL MAGNETIC BOLT-ON OR PLUG-IN TYPE.

ENCLOSURES:

PROVIDE SURFACE-MOUNTED ENCLOSURES AS INDICATED.

FRONTS: PROVIDE LOCKABLE HINGED DOOR WITH CONCEALED HINGES FOR ACCESS TO OVERCURRENT PROTECTIVE DEVICE HANDLES WITHOUT EXPOSING LIVE PARTS.

SECTION 26 2816.16 – ENCLOSED SWITCHES

ENCLOSED SAFETY SWITCHES

DESCRIPTION: QUICK-MAKE, QUICK-BREAK ENCLOSED SAFETY SWITCHES LISTED AND LABELED AS COMPLYING WITH UL 98; HEAVY DUTY; RATINGS, CONFIGURATIONS, AND FEATURES AS INDICATED ON THE DRAWINGS.

PROVIDE INSULATED, GROUNDABLE FULLY RATED SOLID NEUTRAL ASSEMBLY WHERE A NEUTRAL CONNECTION IS REQUIRED, WITH A SUITABLE LUG FOR TERMINATING EACH NEUTRAL CONDUCTOR.

ENCLOSURES: COMPLY WITH NEMA 250, AND LIST AND LABEL AS COMPLYING WITH UL 50 AND UL 50E.

HEAVY DUTY SWITCHES:

COMPLY WITH NEMA KS 1.

SECTION 26 2913 – ENCLOSED CONTROLLERS

ENCLOSED CONTROLLERS

PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.

SHORT CIRCUIT CURRENT RATING:

LISTED SERIES RATINGS ARE ACCEPTABLE, EXCEPT WHERE NOT PERMITTED BY MOTOR CONTRIBUTION ACCORDING TO NFPA 70.

MAGNETIC MOTOR STARTERS: COMBINATION OR NONCOMBINATION TYPE AS INDICATED.

MINIMUM STARTER SIZE: NEMA SIZE 1, UNLESS OTHERWISE INDICATED.

OVERLOAD RELAYS: SOLID-STATE TYPE UNLESS OTHERWISE INDICATED.

OVERCURRENT PROTECTIVE DEVICES

OVERLOAD RELAYS:

PROVIDE OVERLOAD RELAYS AND, WHERE APPLICABLE, ASSOCIATED CURRENT ELEMENTS/HEATERS, SELECTED ACCORDING TO ACTUAL INSTALLED MOTOR NAMEPLATE DATA, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NFPA 70; INCLUDE CONSIDERATION FOR MOTOR SERVICE FACTOR AND AMBIENT TEMPERATURE CORRECTION, WHERE APPLICABLE.

INVERSE-TIME TRIP CLASS RATING: CLASS 10 UNLESS OTHERWISE INDICATED OR REQUIRED.

SOLID-STATE OVERLOAD RELAYS:

ADJUSTABLE FULL LOAD CURRENT.

PHASE LOSS PROTECTION; SELECTABLE.

PHASE IMBALANCE PROTECTION.

THERMAL MEMORY.

CONDUIT CLAMPS: BOLTED TYPE UNLESS OTHERWISE INDICATED.

METAL CHANNEL (STRUT) FRAMING SYSTEMS: FACTORY-FABRICATED CONTINUOUS-SLOT METAL CHANNEL (STRUT) AND ASSOCIATED FITTINGS, ACCESSORIES, AND HARDWARE REQUIRED FOR FIELD-ASSEMBLY OF SUPPORTS.

COMPLY WITH MFMA-4.

CHANNEL MATERIAL:

INDOOR DRY LOCATIONS: USE GALVANIZED STEEL.

OUTDOOR AND DAMP OR WET INDOOR LOCATIONS: USE GALVANIZED STEEL.

SECTION 26 0533.13 – CONDUIT

CONDUIT APPLICATIONS

UNDERGROUND:

UNDER SLAB ON GRADE: USE GALVANIZED STEEL RIGID METAL CONDUIT OR PVC-COATED GALVANIZED STEEL RIGID METAL CONDUIT.

EXTERIOR, DIRECT-BURIED: USE GALVANIZED STEEL RIGID METAL CONDUIT OR RIGID PVC CONDUIT.

WHERE RIGID POLYVINYL (PVC) CONDUIT IS PROVIDED, TRANSITION TO GALVANIZED STEEL RIGID METAL CONDUIT WHERE EMERGING FROM UNDERGROUND.

EMBEDDED WITHIN CONCRETE:

WITHIN SLAB ON GRADE: NOT PERMITTED.

WITHIN SLAB ABOVE GROUND: NOT PERMITTED.

CONCEALED WITHIN MASONRY WALLS: USE GALVANIZED STEEL RIGID METAL CONDUIT.

INTERIOR, DAMP OR WET LOCATIONS: USE GALVANIZED STEEL RIGID METAL CONDUIT.

EXPOSED, INTERIOR, NOT SUBJECT TO PHYSICAL DAMAGE: USE GALVANIZED STEEL RIGID METAL CONDUIT OR ELECTRICAL METALLIC TUBING (EMT).

EXPOSED, INTERIOR, SUBJECT TO PHYSICAL DAMAGE: USE GALVANIZED STEEL RIGID METAL CONDUIT.

EXPOSED, EXTERIOR: USE GALVANIZED STEEL RIGID METAL CONDUIT.

CONCEALED, EXTERIOR, NOT EMBEDDED IN CONCRETE OR IN CONTACT WITH EARTH: USE GALVANIZED STEEL RIGID METAL CONDUIT.

CONNECTIONS TO VIBRATING EQUIPMENT:

DRY LOCATIONS: USE FLEXIBLE METAL CONDUIT.

DAMP, WET, OR CORROSIVE LOCATIONS: USE LIQUDTIGHT FLEXIBLE METAL CONDUIT.

SECTION 26 0533.16 – BOXES

BOXES

GENERAL REQUIREMENTS:

PROVIDE ALL BOXES, FITTINGS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE RACEWAY SYSTEM AND TO ACCOMMODATE DEVICES AND EQUIPMENT TO BE INSTALLED.

OUTLET AND DEVICE BOXES UP TO 100 CUBIC INCHES, INCLUDING THOSE USED AS JUNCTION AND PULL BOXES:

USE SHEET-STEEL BOXES FOR DRY LOCATIONS UNLESS OTHERWISE INDICATED OR REQUIRED.

USE CAST IRON BOXES OR CAST ALUMINUM BOXES FOR DAMP OR WET LOCATIONS UNLESS OTHERWISE INDICATED OR REQUIRED; FURNISH WITH COMPATIBLE WEATHERPROOF GASKETED COVERS.

USE CAST IRON BOXES OR CAST ALUMINUM BOXES WHERE EXPOSED GALVANIZED STEEL RIGID METAL CONDUIT IS USED.

USE SUITABLE CONCRETE TYPE BOXES WHERE FLUSH-MOUNTED IN CONCRETE.

UNDERGROUND BOXES/ENCLOSURES:

DESCRIPTION: IN-GROUND, OPEN BOTTOM BOXES FURNISHED WITH FLUSH, NON-SKID COVERS WITH LEGEND INDICATING TYPE OF SERVICE AND STAINLESS STEEL TAMPER RESISTANT COVER BOLTS.

SIZE: AS INDICATED ON DRAWINGS.

DEPTH: AS REQUIRED TO EXTEND BELOW FROST LINE TO PREVENT FROST UPHEAVAL, BUT NOT LESS THAN 18 INCHES.

PROVIDE LOGO ON COVER TO INDICATE TYPE OF SERVICE.

APPLICATIONS:

PARKING LOTS, SIDEWALKS AND LANDSCAPE AREAS SUBJECT ONLY TO OCCASIONAL NONDELIBERATE VEHICULAR TRAFFIC: USE POLYMER CONCRETE ENCLOSURES, WITH MINIMUM SCTE 77 TIER 22 LOAD RATING.

DO NOT USE POLYMER CONCRETE ENCLOSURES IN AREAS SUBJECT TO DELIBERATE VEHICULAR TRAFFIC.

POLYMER CONCRETE UNDERGROUND BOXES/ENCLOSURES: COMPLY WITH SCTE 77.

SECTION 26 0553 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

IDENTIFICATION REQUIREMENTS

IDENTIFICATION FOR EQUIPMENT:

USE IDENTIFICATION NAMEPLATE TO IDENTIFY EACH PIECE OF ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT AND ASSOCIATED SECTIONS, COMPARTMENTS, AND COMPONENTS.

MOTOR CONTROL:

USE IDENTIFICATION NAMEPLATE TO IDENTIFY MAIN OVERCURRENT PROTECTIVE DEVICE.

USE IDENTIFICATION NAMEPLATE TO IDENTIFY LOAD(S) SERVED FOR EACH BRANCH DEVICE. DO NOT IDENTIFY SPARES AND SPACES.

PANELBOARDS:

IDENTIFY MAIN OVERCURRENT PROTECTIVE DEVICE. USE IDENTIFICATION NAMEPLATE FOR PANELBOARDS WITH A DOOR, FOR POWER DISTRIBUTION PANELBOARDS WITHOUT A DOOR, USE IDENTIFICATION NAMEPLATE.

USE TYPEWRITTEN CIRCUIT DIRECTORY TO IDENTIFY LOAD(S) SERVED FOR PANELBOARDS WITH A DOOR.

SERVICE EQUIPMENT:

USE IDENTIFICATION NAMEPLATE TO IDENTIFY EACH SERVICE DISCONNECTING MEANS.

USE IDENTIFICATION LABEL OR IDENTIFICATION NAMEPLATE ON INSIDE OF DOOR AT EACH MOTOR CONTROLLER TO IDENTIFY NAMEPLATE HORSEPOWER, FULL LOAD AMPERES, CODE LETTER, SERVICE FACTOR, VOLTAGE, AND PHASE OF MOTOR(S) CONTROLLED.

USE FIELD-PAINTED FLOOR MARKINGS, FLOOR MARKING TAPE, OR WARNING LABELS TO IDENTIFY REQUIRED EQUIPMENT WORKING CLEARANCES.

AVAILABLE FAULT CURRENT DOCUMENTATION: USE IDENTIFICATION LABEL TO IDENTIFY THE AVAILABLE FAULT CURRENT AND DATE CALCULATIONS WERE PERFORMED AT LOCATIONS REQUIRING DOCUMENTATION BY NFPA 70 INCLUDING BUT NOT LIMITED TO THE FOLLOWING.

DIVISION 26 – ELECTRICAL

SECTION 26 0519 – ELECTRICAL POWER AND CONTROL CONDUCTORS AND CABLES

1. CONDUCTOR AND CABLE APPLICATIONS

A. DO NOT USE CONDUCTORS AND CABLES FOR APPLICATIONS OTHER THAN AS PERMITTED BY NFPA 70 AND PRODUCT LISTING.

B. PROVIDE SINGLE CONDUCTOR BUILDING WIRE INSTALLED IN SUITABLE RACEWAY UNLESS OTHERWISE INDICATED, PERMITTED, OR REQUIRED.

C. PROVIDE CONTROL WIRING AS SPECIFIED OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER INSTALLED IN SUITABLE RACEWAY.

D. NONMETALLIC-SHEATHED CABLE IS NOT PERMITTED.

E. UNDERGROUND FEEDER AND BRANCH-CIRCUIT CABLE IS PERMITTED ONLY AS FOLLOWS:

WHERE NOT OTHERWISE RESTRICTED, MAY BE USED:

FLAT CONDUCTOR CABLE FOR WELL PUMP FEEDERS ONLY..

SERVICE ENTRANCE CABLE IS NOT PERMITTED.

ARMORED CABLE IS NOT PERMITTED.

METAL-CLAD CABLE IS NOT PERMITTED.

MANUFACTURED WIRING SYSTEMS ARE NOT PERMITTED.

CONDUCTOR AND CABLE GENERAL REQUIREMENTS

PROVIDE PRODUCTS THAT COMPLY WITH REQUIREMENTS OF NFPA 70.

PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.

UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE ALL REQUIRED CONDUIT, BOXES, WIRING, CONNECTORS, ETC. AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.

COMPLY WITH NEMA WC 70.

THERMOPLASTIC-INSULATED CONDUCTORS AND CABLES: LISTED AND LABELED AS COMPLYING WITH UL 83.

THERMOSET-INSULATED CONDUCTORS AND CABLES: LISTED AND LABELED AS COMPLYING WITH UL 44.

CONDUCTOR MATERIAL:

PROVIDE COPPER CONDUCTORS ONLY. ALUMINUM CONDUCTORS ARE NOT ACCEPTABLE FOR THIS PROJECT. CONDUCTOR SIZES INDICATED ARE BASED ON COPPER.

SINGLE CONDUCTOR BUILDING WIRE

DESCRIPTION: SINGLE CONDUCTOR INSULATED WIRE.

INSULATION VOLTAGE RATING: 600 V.

INSULATION:

COPPER BUILDING WIRE: TYPE XHHW-2.

SECTION 26 0526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

GROUNDING AND BONDING REQUIREMENTS

WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.

GROUNDING ELECTRODE SYSTEM:

PROVIDE CONNECTION TO REQUIRED AND SUPPLEMENTAL GROUNDING ELECTRODES INDICATED TO FORM GROUNDING ELECTRODE SYSTEM.

PROVIDE CONTINUOUS GROUNDING ELECTRODE CONDUCTORS WITHOUT SPLICE OR JOINT.

INSTALL GROUNDING ELECTRODE CONDUCTORS IN RACEWAY WHERE EXPOSED TO PHYSICAL DAMAGE. BOND GROUNDING ELECTRODE CONDUCTOR TO METALLIC RACEWAYS AT EACH END WITH BONDING JUMPER.

GROUND ROD ELECTRODE(S):

PROVIDE THREE ELECTRODES IN AN EQUILATERAL TRIANGLE CONFIGURATION UNLESS OTHERWISE INDICATED OR REQUIRED. EXISTING GROUND RODS MAY BE UTILIZED IF THE PASS THE GROUND RESISTANCE TEST. OTHERWISE, NEW RODS SHALL BE PROVIDED.

SPACE ELECTRODES NOT LESS THAN 10 FEET FROM EACH OTHER AND ANY OTHER GROUND ELECTRODE.

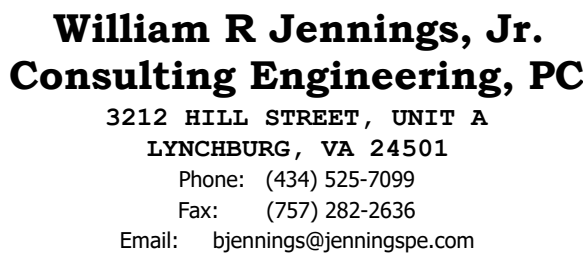
BONDING AND EQUIPMENT GROUNDING:

PROVIDE BONDING FOR EQUIPMENT GROUNDING CONDUCTORS, EQUIPMENT GROUND BUSSES, METALLIC EQUIPMENT ENCLOSURES, METALLIC RACEWAYS AND BOXES, DEVICE GROUNDING TERMINALS, AND OTHER NORMALLY NON-CURRENT-CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS/EQUIPMENT OR LIKELY TO BECOME ENERGIZED AS INDICATED AND IN ACCORDANCE WITH NFPA 70.

PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. DO NOT USE RACEWAYS AS SOLE EQUIPMENT GROUNDING CONDUCTOR.

WHERE CIRCUIT CONDUCTOR SIZES ARE INCREASED FOR VOLTAGE DROP, INCREASE SIZE OF EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY IN ACCORDANCE WITH NFPA 70.

PROVIDE BONDING FOR INTERIOR METAL PIPING SYSTEMS IN ACCORDANCE WITH NFPA 70. THIS INCLUDES, BUT IS



BAKER COMMUNITY WELL
MECHANICAL & PLUMBING PLAN

JOB NO. 48490
SHEET NO. H1.1

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