

Contents:
Equipment
Layout

Job:
Smitty's Car
Wash

Corsicana,
TX

Customer:
Smitty's Car
Wash

File Name:
04292022.dwg

Revisions		
Date	Rev.	Drafter
04/29/22	0	CMS

SHEET
1

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Contents:
Equipment
Layout w./
Dimensions

Job:
Smitty's Car
Wash

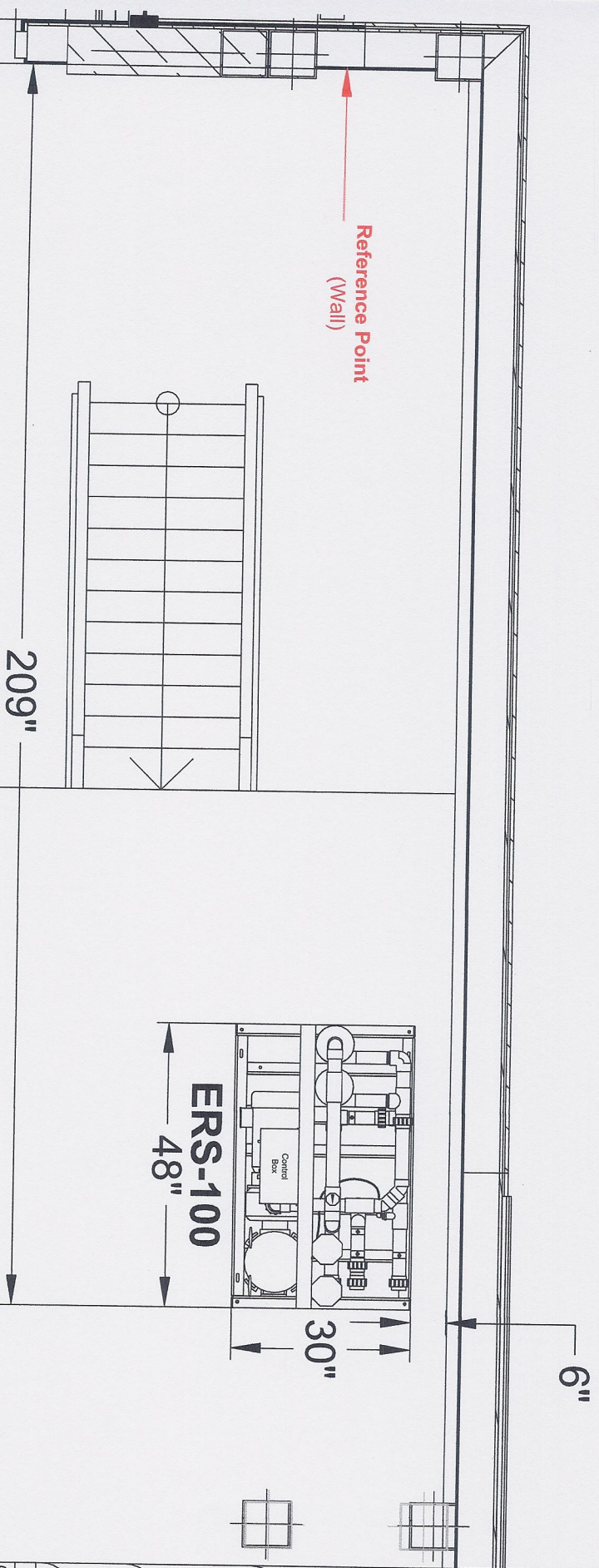
Coriscana,
TX

Customer:
Smitty's Car
Wash

File Name:
04292022.dwg

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Date	Rev.	Drafter
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SHEET
1A



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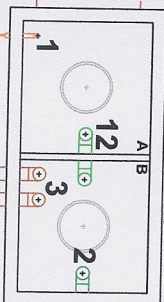
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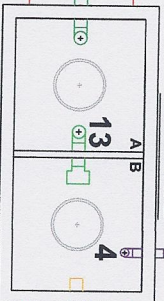
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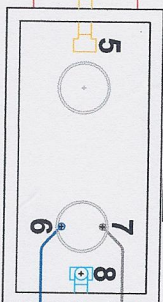
TANK #1



TANK #2



TANK #3

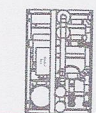


UNDERGROUND PLUMBING LEGEND

- 1 - 2" sch 80 PVC Pipe - Underflow Discharge - To TANK 1A
- 2 - 6" sch 40 PVC Pipe - External Crossover - From TANK 1B to TANK 2A
- 3 - Two 6" sch 40 PVC Pipes - Center Trench - To TANK 1B
- 4 - 4" or 6" sch 40 PVC Pipe - Overflow to Sewer - From TANK 2B
- 5 - 6" sch 40 PVC Pipe - External Crossover - From TANK 2B to TANK 3
- 6 - 3" sch 80 PVC Pipe - Filter Pump Suction Line - From TANK 3
- 7 - 3" sch 80 PVC Pipe - Optional Extra Suction Line - From TANK 3
- 8 - 4" or 6" sch 40 PVC Pipe - AquaPrep Discharge - Split To TANK 3
- 9 - 4" or 6" sch 40 PVC Pipe - Internal Crossover - From TANK 1A to TANK 1B
- 12 - 6" sch 40 PVC Pipe - Internal Crossover - From TANK 1A to TANK 1B
- 13 - 6" sch 40 PVC Pipe - Internal Crossover - From TANK 2A to TANK 2B

Plumbing Paths Drawn for Clarity ONLY! USE BEST PRACTICE!

3



9

Minimum 10' From Entrance
End of Center Trench

9

SHEET
2

Contents:
Underground
Plumbing
Details

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Smitty's Car
Wash
Corsicana,
TX
Customer:
Smitty's Car
Wash

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Date	Rev.	Drafter
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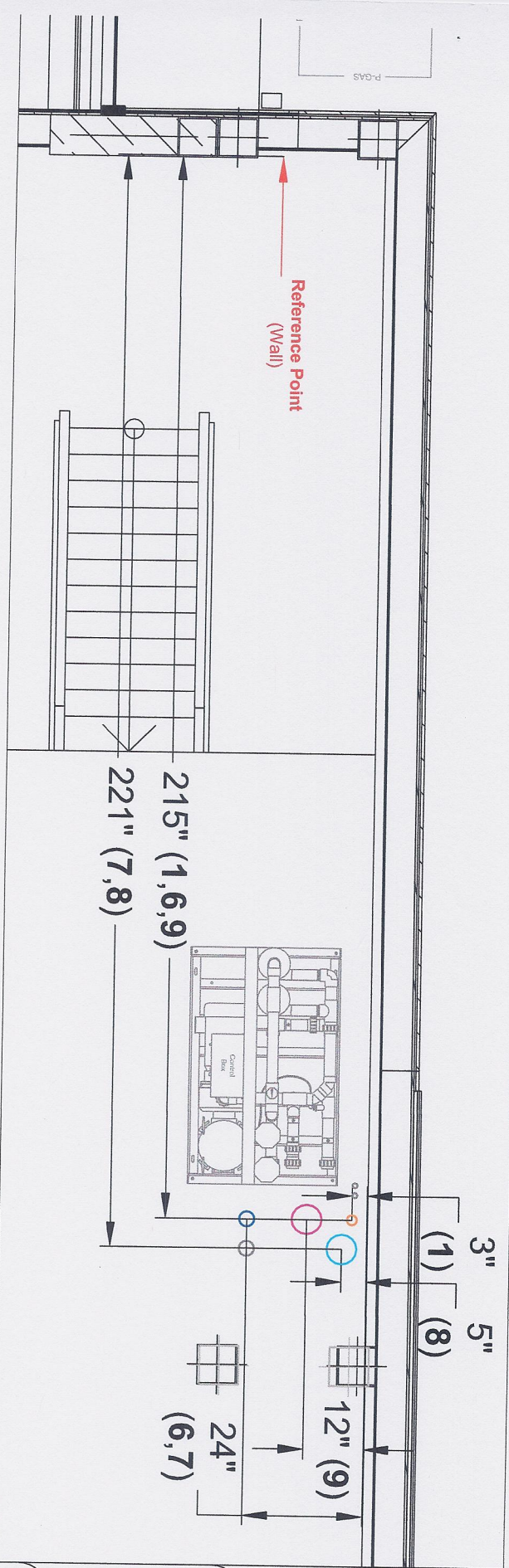
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Contents:
Underground
Plumbing
Stub-Up
Details w./
Dimensions

Job:
Smitty's Car
Wash
Corsicana,
TX

Customer:
Smitty's Car
Wash

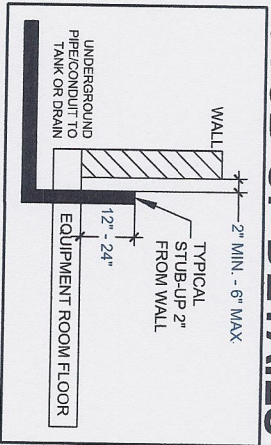
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UNDERGROUND PLUMBING LEGEND

- 1 - 2" sch 80 PVC Pipe - Underflow Discharge - To TANK 1A
- 6 - 3" sch 80 PVC Pipe - Filter Pump Suction Line - From TANK 3
- 7 - 3" sch 80 PVC Pipe - Optional Extra Suction Line - From TANK 3
- 8 - 4" or 6" sch 40 PVC Pipe - AquaPrep Discharge - Split To TANK 3
- 9 - 4" or 6" sch 40 PVC Pipe - AquaPrep Discharge - Split To Center Trench

STUB-UP DETAILS



SHEET
2A

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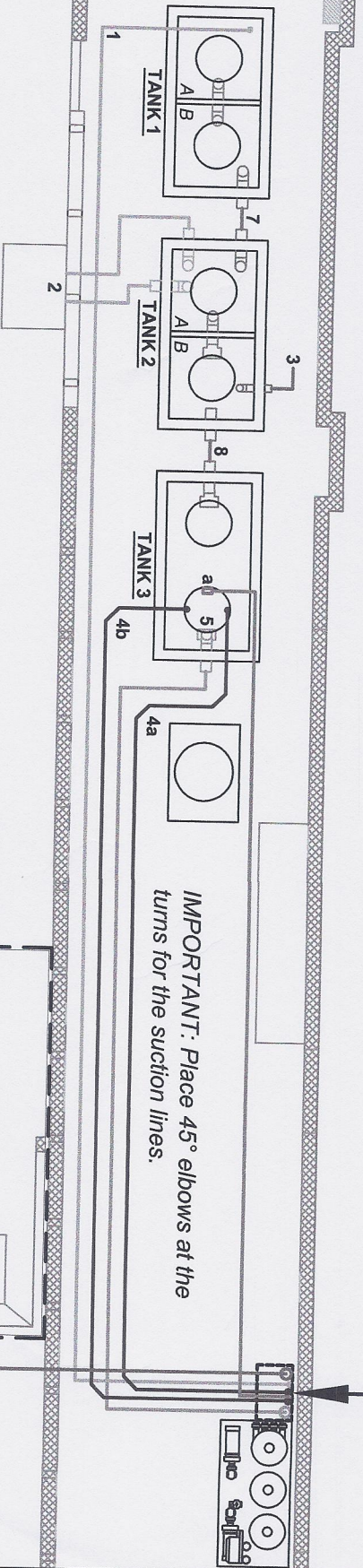
UNDERGROUND PLUMBING LEGEND

- 1 - 2" sch 80 PVC Pipe - Backwash Discharge - TANK 1A
- 2 - Two 6" sch 40 PVC Pipes - Drain Lines from Conveyor Trench - TANK 2A
- 3 - 4" (or 6") sch 40 PVC Pipe - Overflow to Sewer - TANK 2B
- 4a - 3" sch 80 PVC Pipe - 7.5 HP Pump #1 Suction Line - TANK 3
- 4b - 3" sch 80 PVC Pipe - 7.5 HP Pump #2 Suction Line - TANK 3
- 5 - 6" sch 40 PVC Pipe - Return Line from Equipment Room - TANK 3
- 6 - 6" sch 40 PVC Pipe - Chain Wash to Conveyor Trench
- 7 - 6" sch 40 PVC Pipe - TANK 1B to TANK 2A Crossover
- 8 - 6" sch 40 PVC Pipe - TANK 2B to TANK 3 Low Crossover

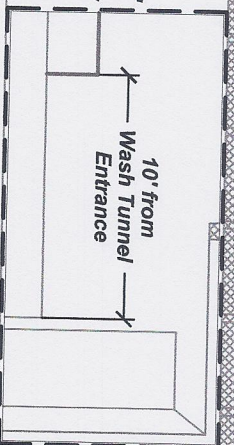
UNDERGROUND ELECTRICAL LEGEND

- a - 1" PVC Conduit - Low Water Protection Float Switch (FS-2) - TANK 3

***Plumbing & electrical lines drawn for clarity only.
Use best practice.

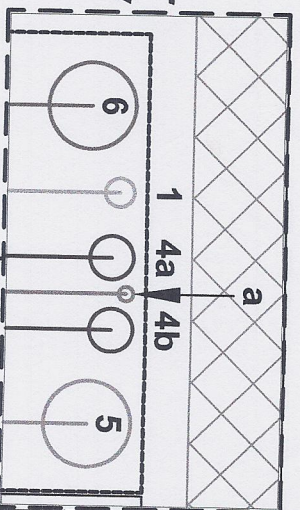


Pipe 6 - Detail View



6 (See Detail View)

Stub-Ups - Detail View



Contents:

Underground
Plumbing &
Electrical
Layout

Job:

Legends
Car Wash -
Lewisville,
TX

Customer:
Sonny's

File Name:
06232015.dwg

Revisions

Date	Rev	Drafter
06/23/15	0	JOS

Sheet

2-3

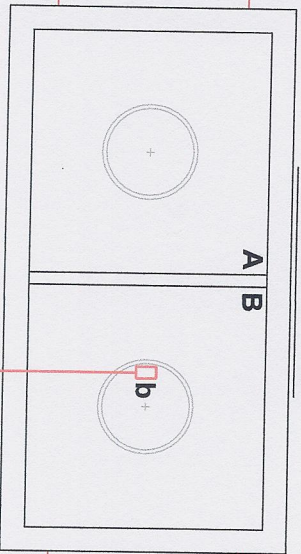
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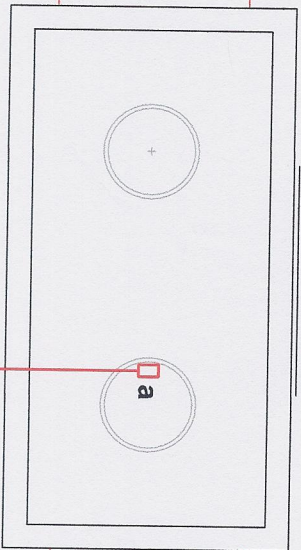
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TANK #2



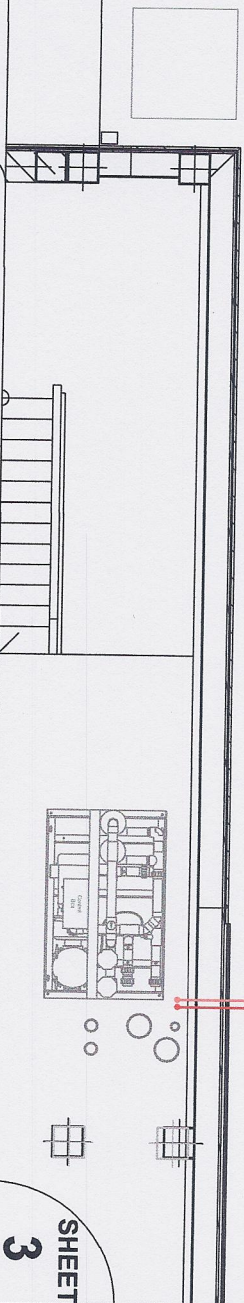
TANK #3



UNDERGROUND ELECTRICAL LEGEND

- a - 1" PVC Conduit - Low Water Protection Float Switch (FS-2) - TANK 3
- b - 1" PVC Conduit - FOR FUTURE USE - TANK 2B

Electrical Conduit Paths Drawn For Clarity ONLY! USE BEST PRACTICE!



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Electrical
Details

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Smitty's Car
Wash

Corsicana,
TX

Customer:
Smitty's Car
Wash

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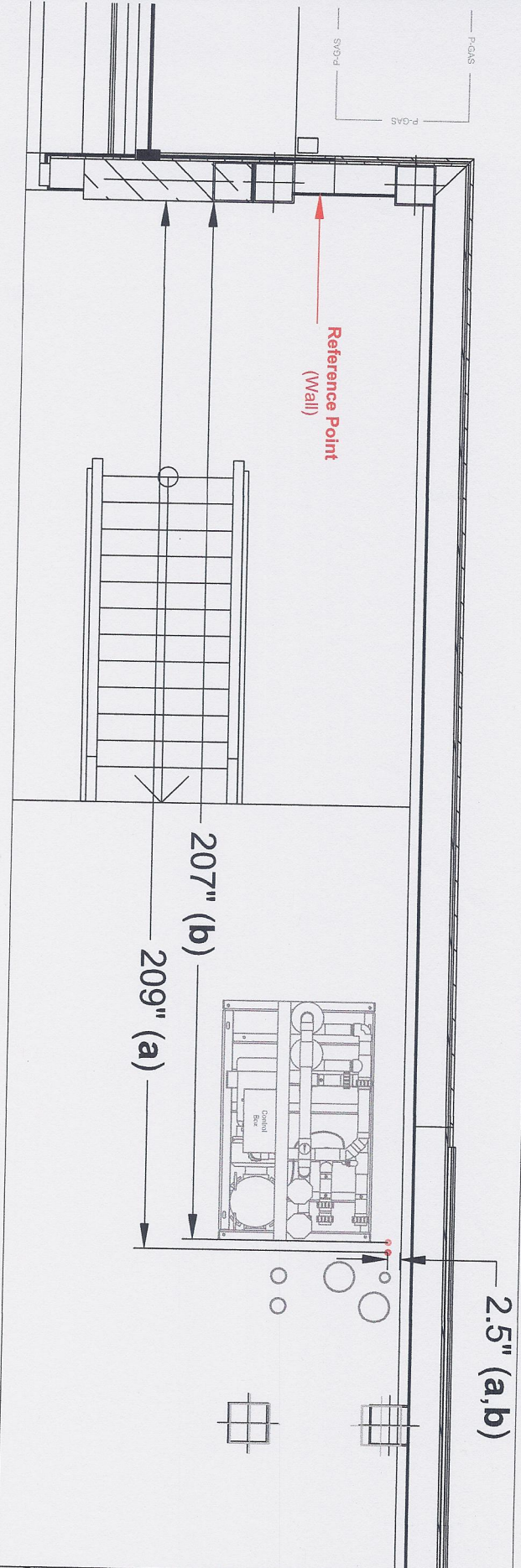
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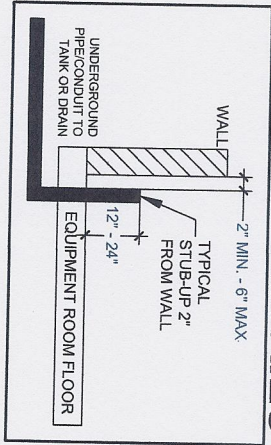




- UNDERGROUND ELECTRICAL LEGEND**
- a - 1" PVC Conduit - Low Water Protection Float Switch (FS-2) - TANK 3
 - b - 1" PVC Conduit - FOR FUTURE USE - TANK 2B

Electrical Conduit Paths Drawn For Clarity ONLY! USE BEST PRACTICE!

STUB-UP DETAILS



Contents:
Underground
Electrical
Stub-up
Details w./
Dimensions

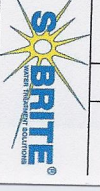
Job:
Smitty's Car
Wash
Corsicana,
TX

Customer:
Smitty's Car
Wash

File Name:
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3A



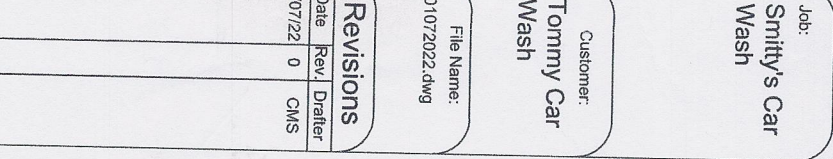
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Contents:
Underground
Reclaim Tank



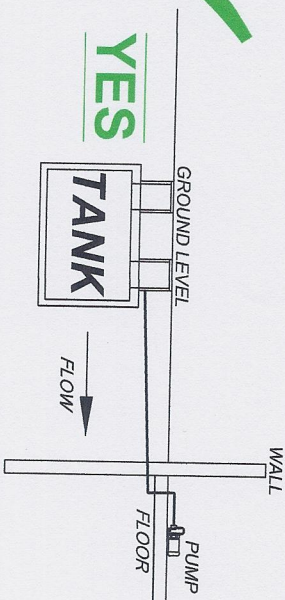
S-BRITE
WATER TREATMENT SOLUTIONS

UNDER GROUND PLUMBING EXAMPLES:



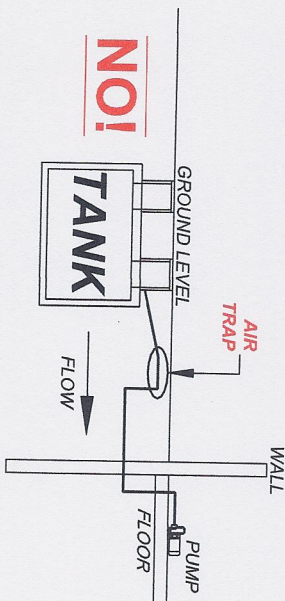
YES

1. ALL suction lines require a continuous upward slope from the reclaim tanks to the equipment room.



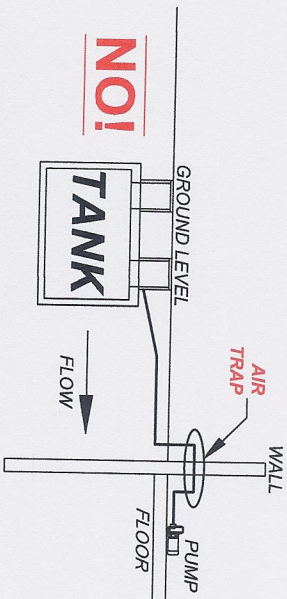
NO!

2. ALL suction lines must NEVER slope down & then back up again (**AIR TRAP**).



NO!

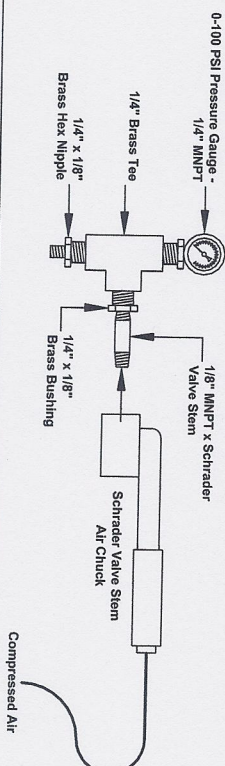
3. ALL suction lines must NEVER slope up & then back down again (**AIR TRAP**).



THE INFORMATION ON THIS PAGE IS
CRITICAL FOR SUCTION TO OPERATE PROPERLY
PLEASE READ CAREFULLY!

BELOW GROUND RECLAIM TANKS

PRESSURE TESTING PUMP SUCTION LINES



NOTES:

- Pressure test all suction lines upon installation @ 10-15 psi max.
- **VERY IMPORTANT:** Keep pressure on suction lines for **THE ENTIRE DURATION** of construction.
- Pressure should NOT drop more than 2 PSI.
- Watch for problems when excavating driveways.
- If reclaim tanks are located on opposite side of equipment room, increase suction line to next size larger.
- Placement of suction lines is critical.
- Do NOT put screens on the suction lines.

SHEET
4A

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Contents:
Proper Slope
and Pressure
Testing
Details

Job:
Smitty's Car
Wash

Corsicana,
TX

Customer:
Smitty's Car
Wash

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Date	Rev.	Drafter
04/29/22	0	CMS

Contents:
Above
Ground
Plumbing
Details

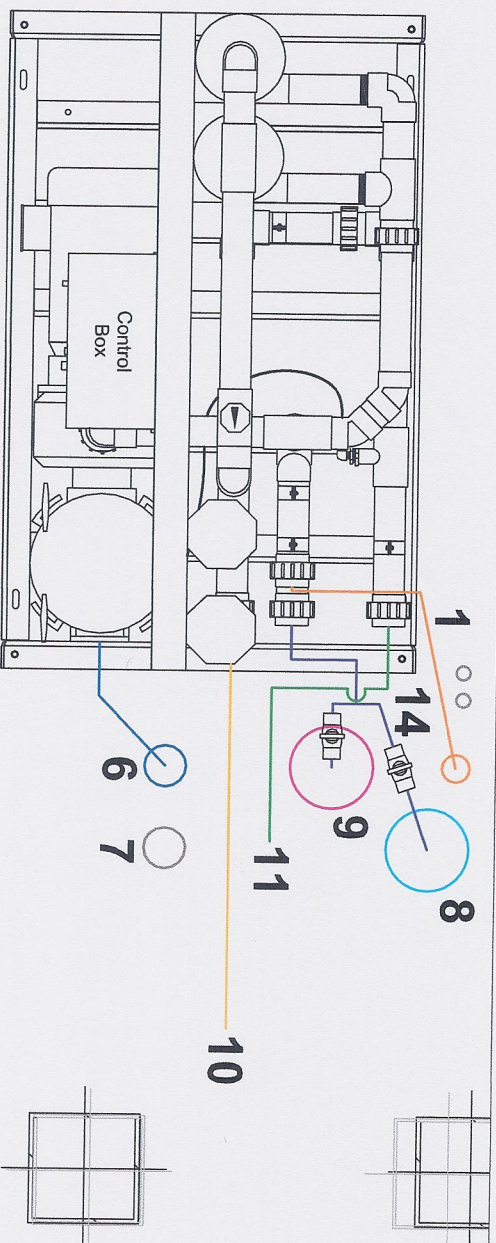
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Smitty's Car
Wash
Corsicana,
TX

Customer:
Smitty's Car
Wash

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04292022.dwg

Revisions		
Date	Rev.	Drafter
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SHEET
5



ERS-100

ABOVE GROUND PLUMBING LEGEND

- 1 - 2" sch 80 PVC Pipe - Underflow Discharge - To TANK 1A
- 6 - 3" sch 80 PVC Pipe - Filter Pump Suction Line - From TANK 3
- 7 - 3" sch 80 PVC Pipe - Optional Extra Suction Line - From TANK 3
- 8 - 4" or 6" sch 40 PVC Pipe - AquaPrep Discharge - Split To TANK 3
- 9 - 4" or 6" sch 40 PVC Pipe - AquaPrep Discharge - Split To Center Trench
- 10 - 2" Pipe - Reclaim Water Outlet - From ERS to Car Wash Equipment
- 11 - 2" Pipe - Fresh Water Inlet - From City Water Source to ERS
- 14 - 2" sch 80 PVC Pipe - AquaPrep Discharge tee' d w./ Ball Valve for Flow Control - Approximately 20% to Pipe (8) - Approximately 80% to Pipe (9)

Plumbing Paths Drawn For Clarity ONLY! USE BEST PRACTICE!

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Contents:
Above
Ground
Electrical
Details

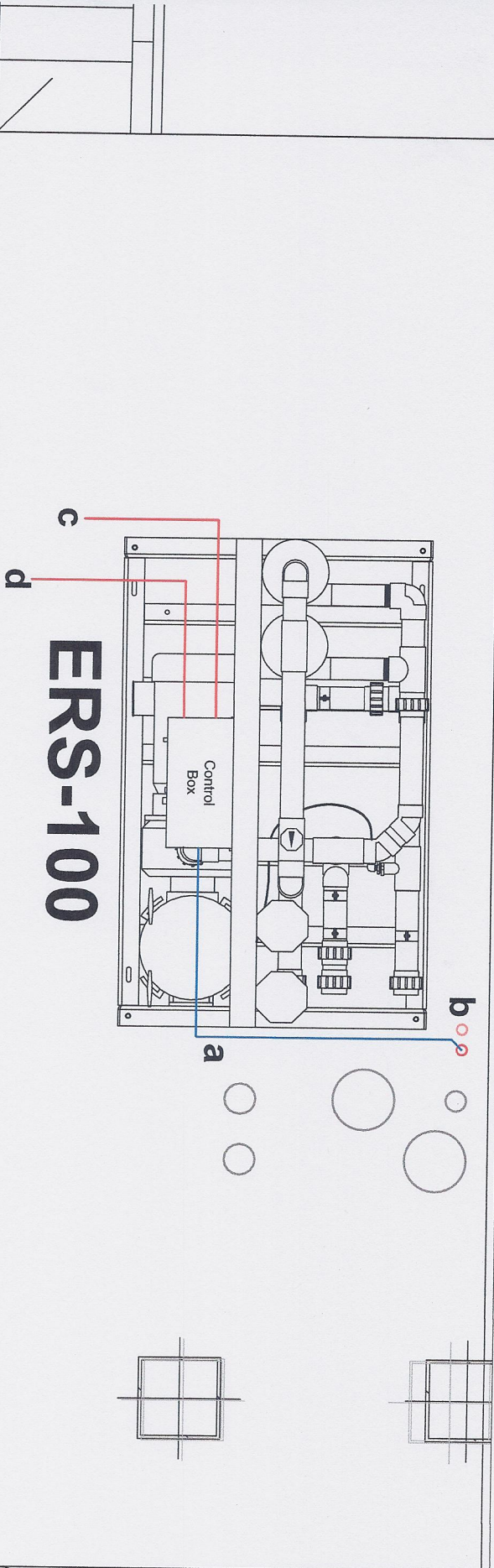
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Smitty's Car
Wash
Corsicana,
TX

Customer:
Smitty's Car
Wash

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SHEET
6



ABOVE GROUND ELECTRICAL LEGEND

- a - 1" PVC Conduit - Low Water Protection Float Switch (FS-2) - TANK 3
- b - 1" PVC Conduit - FOR FUTURE USE - TANK 2B
- c - 3 Phase Power in L1-L2-L3
- d - 120 VAC Control Circuit Feed

Electrical Paths Drawn For Clarity ONLY! USE BEST PRACTICE!

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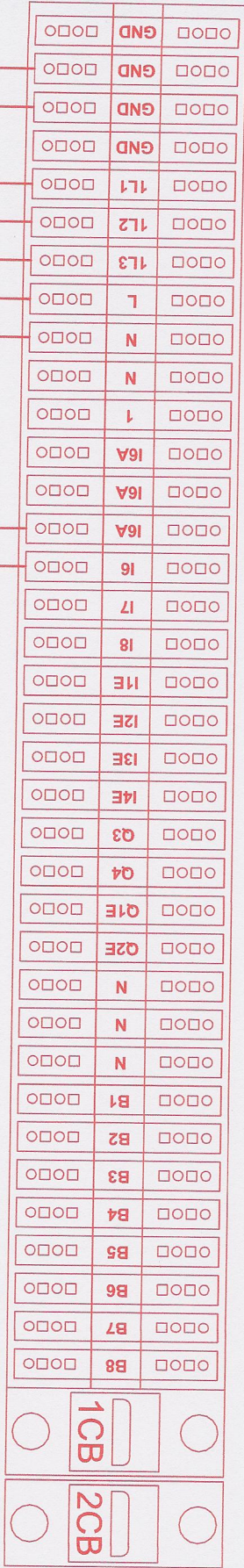
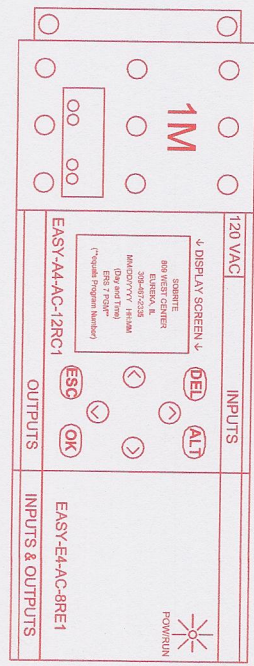
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ERS FIELD CONNECTIONS

Field connections are to only be made at terminal strip.
Factory wiring connects terminal strip to components.



COMPONENT LEGEND

- EASY-A4-AC-12RC1 - Control Relay
- 1CB - Main Control Circuit Protector
- 2CB - Ballast Circuit Protector
- 1M - Filter Pump Motor Starter

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SHEET
E1



Contents:
Electrical
Details -
ERS-100
Gen. 3 Field
Connections

Job:
Smitty's Car
Wash

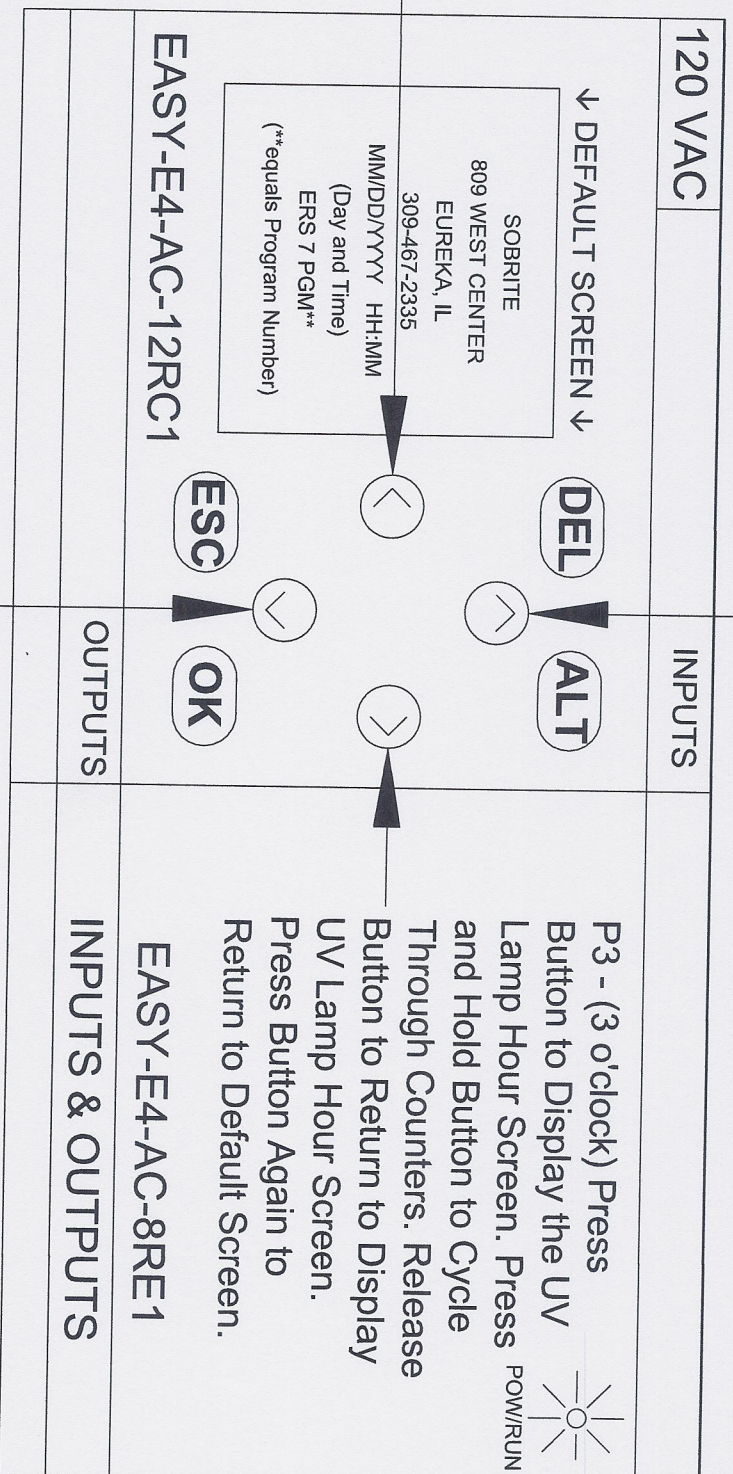
Corsicana,
TX

Customer:
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Wash

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P2 - (12 o'clock) Press Button to Display the Input/Output Screen. Press Button Again to Return to Default Screen.



P4 - (6 o'clock)
 After Replacing The UV Lamps and Check Valves, Press and Hold for 15 Seconds to Reset The Hour Counter.

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Contents:
 Electrical Details - ERS-100 Gen. 3 PLC Screen

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 Smitty's Car Wash
 Corsicana, TX

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 Smitty's Car Wash

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SHEET
E2

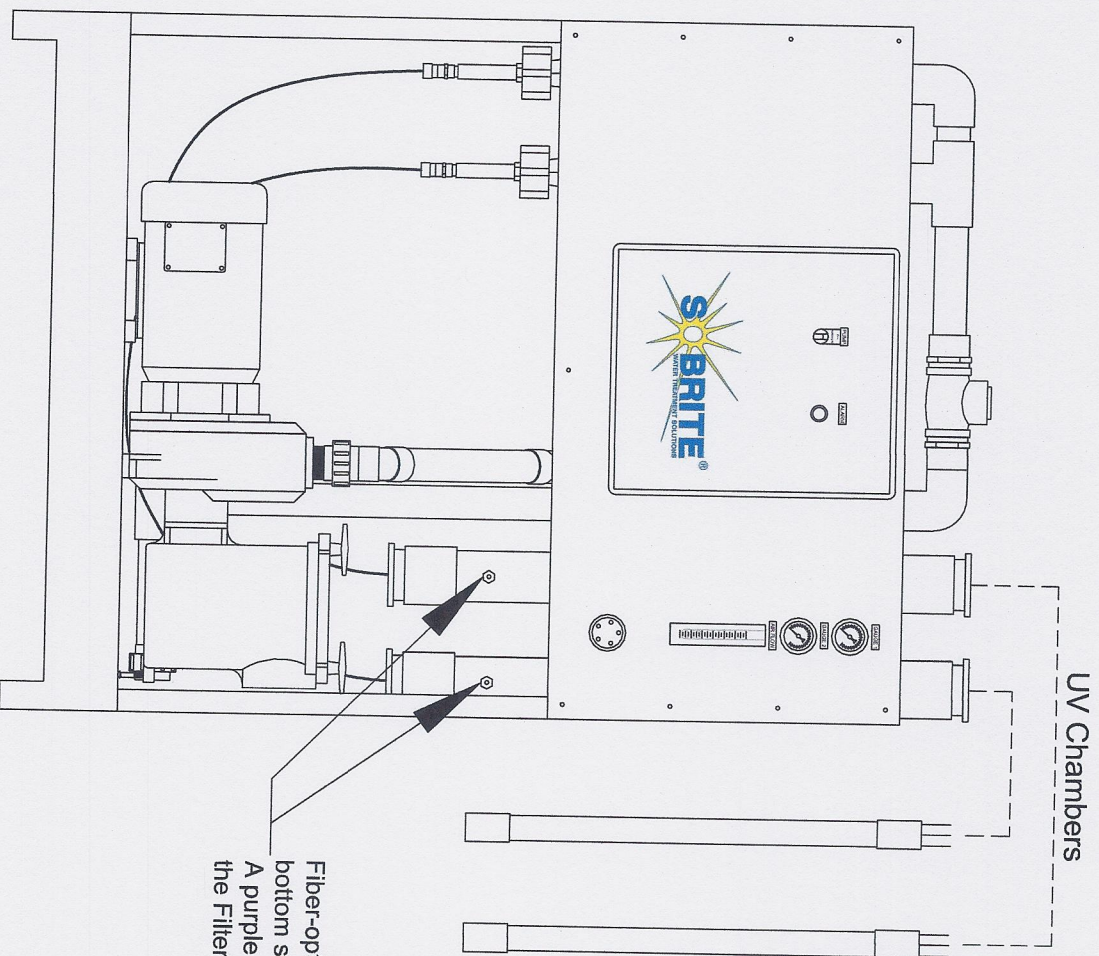
UV LAMP INSTALLATION

Remove the 3" gray plastic threaded plugs from the top of the UV chambers, then install the UV lamps. Connect the white plugs to each lamp.

LAMPS ARE FRAGILE. Use caution when inserting lamps into the UV chambers.

UV lamps are shipped separately in white cardboard boxes.

Re-Install 3" Gray Plastic Threaded Plug.



Fiber-optic lenses located on bottom section of UV chambers. A purple glow can be seen while the Filter Pump is in operation.

**SHEET
E3**

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Contents:

Electrical
Details -
ERS-100
Gen. 3 UV
Lamp
Installation

Job:

Smitty's Car
Wash

Corsicana,
TX

Customer:

Smitty's Car
Wash

File Name:

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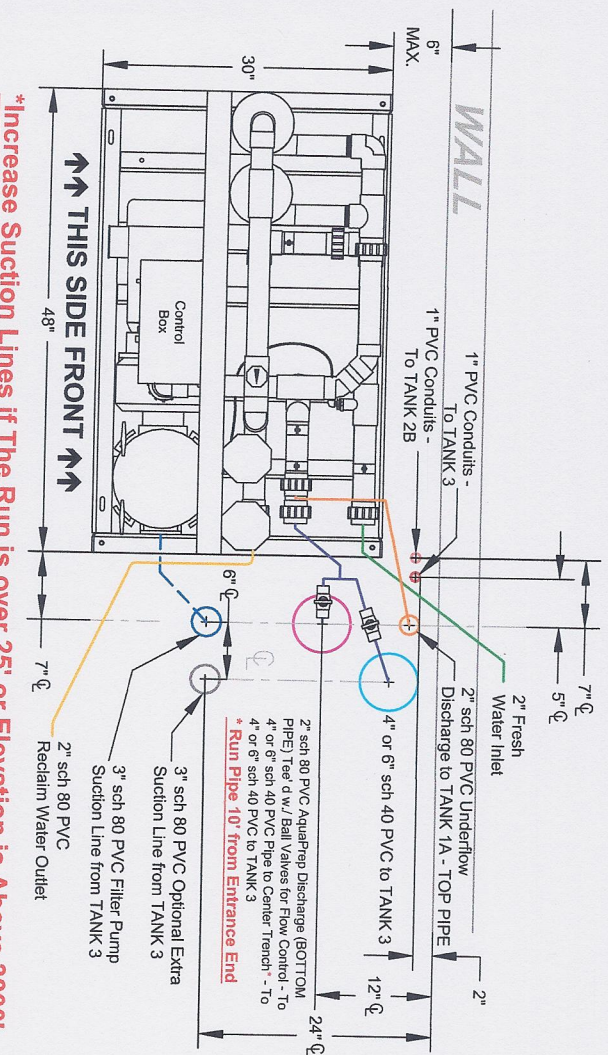
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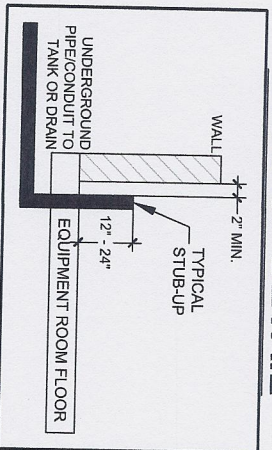


ERS-100

Underground Stub-Ups & Pipe Connections in Equipment Room - Top View

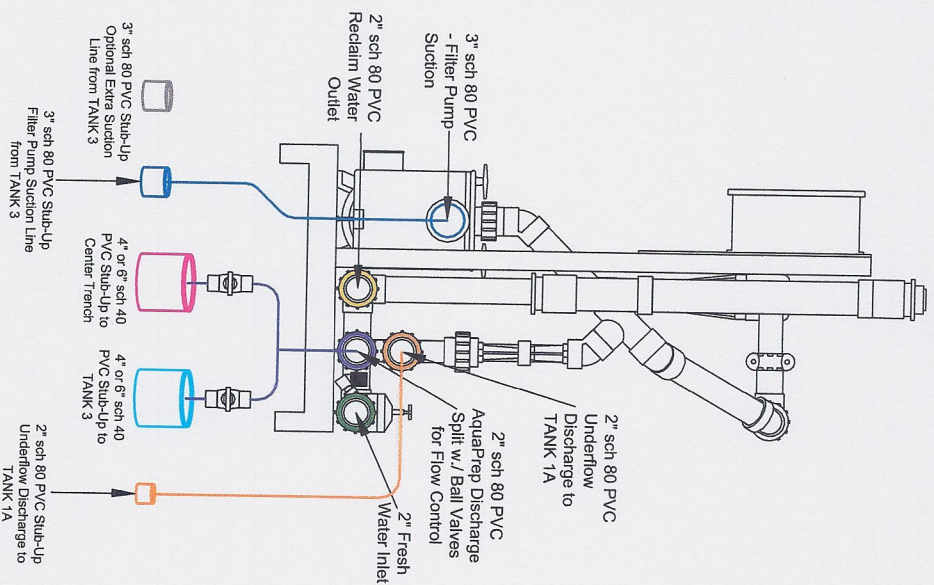


STUB-UP DETAIL



ERS-100

Pipe Connections - Side View



Contents:
Plumbing
Details -
ERS-100
Gen. 3 Pipe
Connections
and Stub-Ups

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Smitty's Car
Wash
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SHEET
P1

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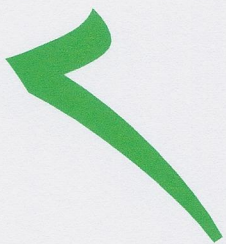
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YES



CRITICAL
MEASUREMENT

10"

18"

OK 8"

The Low Water Protection Float Switch (**FS-2**) Must have adequate space in order to work correctly 10" higher than the inlet of the suction line

NO!



TOO
HIGH

18"

18"

THIS
FLOAT
SWITCH
MUST BE
RAISED TO
28" (18" + 10")

If the Suction Line is Raised, the Float Switch **MUST** be Raised as well. Otherwise, the Float Switch will be Unable to Function Properly due to Suction Interference

SHEET
P2

Contents:

Plumbing
Details -
ERS-100 Gen.
3 Proper
Suction Line
and Float
Switch
Placement

Job:

Smitty's Car
Wash

Corsicana,
TX

Customer:

Smitty's Car
Wash

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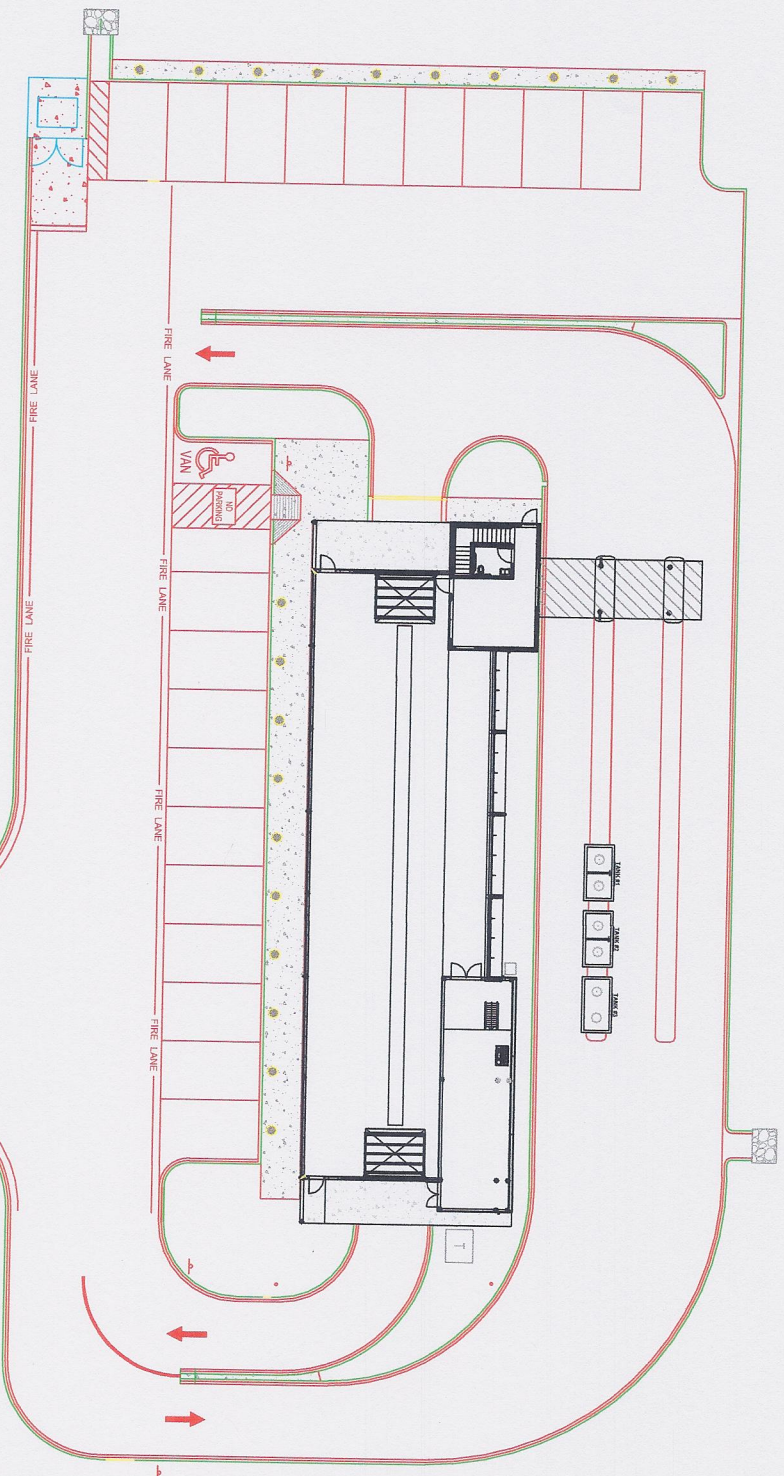
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Contents:
Cover



Job:
Smitty's Car Wash
Corsicana,
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Customer:
Smitty's Car Wash

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