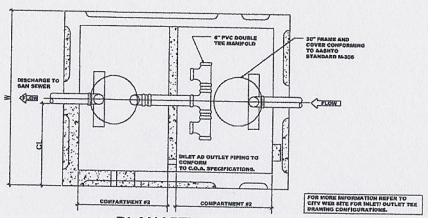
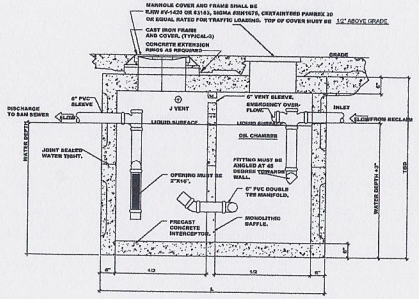


PLAN VIEW

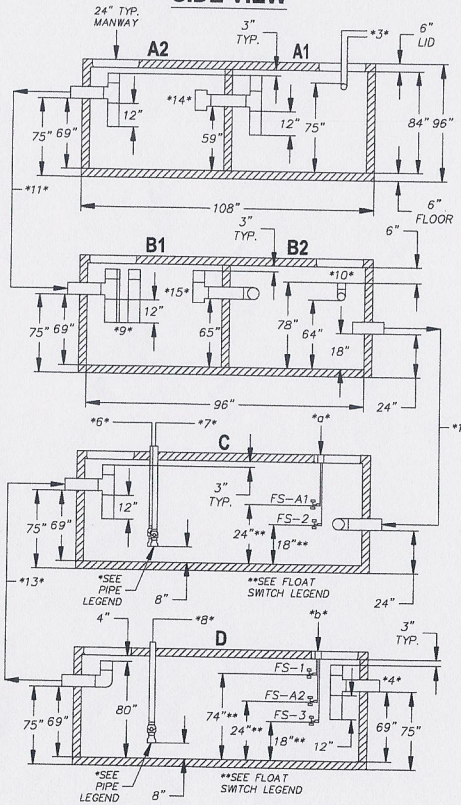


SECTION

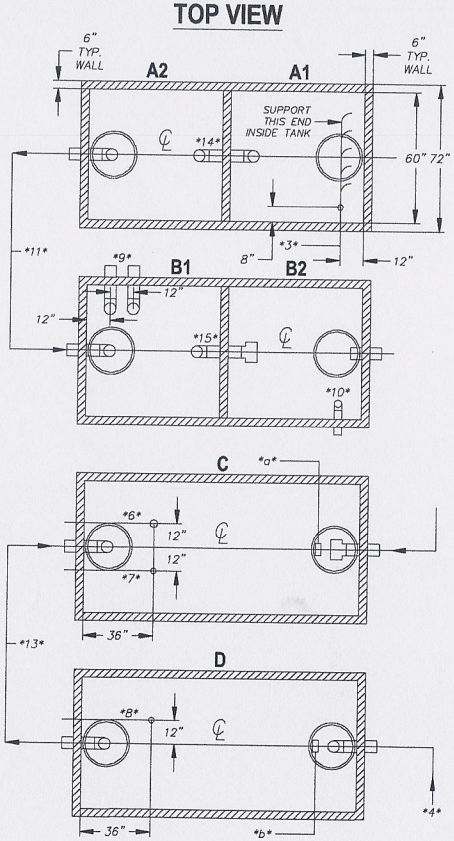
1 SAND/GREASE TRAP DETAIL 750 GALLON CAPACITY

SCALE: N.T.S

SIDE VIEW



TOP VIEW



2 WATER RECLAIM DETAIL

SCALE: N.T.S

FOUR 2,000-GALLON UNDERGROUND CONCRETE TANKS

By ParkUSA
7015 Fairbanks North Houston Road | Houston, TX 77040
Phone # : 888-611-7275

2,000 Gallon Capacity - One-Piece, Two Compartment Grease Interceptor
LENGTH: 108" WIDTH: 72" HEIGHT: 96"
WALLS: 6" Thick FLOOR: 6" Thick LID: 6" Thick

TANK LEGEND

TANK A - Primary Backwash w./ Baffle
TANK B - Primary Settlement w./ Baffle
TANK C - Process
TANK D - Filtered Water Storage

PIPE LEGEND

3 - 2" sch 80 PVC Pipe - Primary Backwash Line - To 2" Manifold in TANK A1 (By Plumber) - **SEE SHEET 4B FOR DETAILS**
4 - 6" sch 40 PVC Pipe - Filtered Water Fill Line - To TANK D
6* - 3" sch 80 PVC Pipe - 7.5 HP Filter Pump Suction Line - From TANK C
7* - 2" sch 80 PVC Pipe - Aqua Prep Suction Line - From TANK C
8* - 3" sch 80 PVC Pipe - 5 HP Reclaim Re-Pressure Pump Suction Line - From TANK D
9 - Two 6" sch 40 PVC Pipes - Conveyor Trench - To TANK B1
10 - 4" or 6" sch 40 PVC Pipe - Overflow to Sand/Oil Trap - From TANK B2
11 - 6" sch 40 PVC Pipe - External Crossover - From TANK A2 to TANK B1
12 - 8" sch 40 PVC Pipe - External Crossover - From TANK B2 to TANK C
13 - 6" sch 40 PVC Pipe - External Crossover - From TANK D to TANK C
14 - 6" sch 40 PVC Pipe - Internal Crossover - From TANK A1 to TANK A2
15 - 6" sch 40 PVC Pipe - Internal Crossover - From TANK B1 to TANK B2

*** For suction lines, keep a minimum 12" distance between lines & from the inside walls of the tank.**

ELECTRICAL LEGEND

a - 1" PVC Conduit to Junction Box - Box to Be Mounted in Manway Collar for **FS-2** & **FS-A1** in TANK C
b - 1" PVC Conduit to Junction Box - Box to Be Mounted in Manway Collar for **FS-1**, **FS-3**, & **FS-A2** in TANK D

FLOAT SWITCH LEGEND**

FS-1 - Filtermatic Skid Full Float Switch - TANK D
FS-2 - Low Water Protection Float Switch - TANK C
FS-3 - 5 HP Reclaim Re-Pressure Pump Low Water Float Switch - TANK D
FS-A1 - Fresh Water Reclaim Make-Up Solenoid Valve Float Switch - TANK C
FS-A2 - Fresh Water Reclaim Make-Up Solenoid Valve Float Switch - TANK D

**** All float measurements are from the tank floor to the bottom of the float switch weight.**

NOTES:

- Extend all tank piping no less than 6" into the tanks.
- Request TANK A & TANK B baffles to have no top gap.
- All plumbing by plumber.
- Foot valves & float switches by SoBrite.
- Do not install screens in crossover piping.
- Tank elevations to be determined by contractor.
- All tank bottoms are to be at the same level.

GENERAL CONTRACTOR SHALL REFER TO WASH EQUIPMENT SHOP DRAWINGS FOR RECLAIM PIT DESIGN AND CONFIGURATION

1) TO PUR-WATER RECOVERY SYSTEM (2) 3" SCH 80 PVC SUCTION LINES. ONE TO SERVE AS A SPARE LINE IS STRAPPED TO THE TANK WALL. INSTALL (2) SCH 80 UNIONS WITH O-RINGS TO ALLOW SERVICING OF THE SUCTION LINES. TERMINATE SUCTION LINES WITH FULL FLOW FLAPPER CHECK VALVES (NO SPRING LOADED FOOT VALVES).

2) PUR-WATER PROVIDED LOW SAFETY FLOAT SHOULD BE MOUNTED AS THAT IT WILL BE IN THE DOWN POSITION 10" ABOVE THE TOP OF THE FLAPPER CHECK. THIS FLOAT CONTROLS THE SAFETY FUNCTION TO PROTECT THE PUMP FROM A LOW WATER SITUATION.

3) (1) 1" SCH 80 LINE - (1) SPARGER RETURN LINE OR OZONE LINE - IF SPARGER LINE SHOULD TERMINATE TO ALLOW THE SPARGER TO BE 1' ABOVE WATER LINE (MOUNT IN MANWAY) OR IF OZONE - SYSTEM LINE SHOULD TERMINATE 2' FROM BOTTOM OF TANK WITH A TEE SO IT WILL SPREAD THE OZONE.

4) 1" CONDUIT WITH (6) 14 GUAGE WIRES TERMINATED IN WATER TIGHT EUNCTION BOX RUN BACK TO PUR-WATER RECLAIM SYSTEM FOR FLOAT CONTROLS.

GENERAL CONTRACTOR SHALL REFER TO WASH EQUIPMENT SHOP DRAWINGS AND OWNER FOR MORE REQUIREMENTS. VERIFY LOCATIONS AND QUANTITIES PRIOR TO BID AND CONSTRUCTION.

PLUMBING DEMAND CALCULATIONS						
FIXTURE TYPE	USE	CW	HW	TOTAL	TOTAL FIXTURES	TOTAL FIXTURE UNITS
PROPOSED CAR WASH BUILDING (A)						
W/C	PUBLIC	5	–	5	1	5
LAVATORY	PUBLIC	1.5	1.5	2	1	2
KITCHEN SINK	PRIVATE	.75	.75	1	1	1
SERVICE SINK	PRIVATE	2.25	2.25	3	1	3
SUB-TOTAL CAR WASH BUILDING (A)						11
FIXTURE UNIT TO GALLONS PER MINUTE						11

WASH EQUIPMENT DEMAND CALCULATIONS				
EQUIPMENT TYPE	FRESH	RO REJECT	TOTAL PER USE	TOTAL GPM
CAR WASH EQUIPMENT (B) ***NET WATER USAGE INDICATED BELOW***				
PREP GUN	1.6	–	1.6	3.2
HAND	0.09	–	0.09	1.8
PRESOAK	0.6	–	0.6	1.2
CTA 1	0.1	–	0.1	0.2
BUG/ FRAGRANCE	0.35	–	0.35	0.7
FOAM BATH 1/2/3/4	1.25	–	2.25	4.5
WRAP 1/2 FOAMER	0.85	–	0.85	1.70
POLISH 1/2/3	0.94	–	0.94	1.88
WHEEL BRITE	0.5	–	0.5	1.0
TRIPLE DRIP	1.15	–	1.15	2.3
DRYING AGENT	–	3.5	3.5	7
BODY PROTECTANT	0.63	–	0.63	1.26
SEALER WAX	–	2.7	2.7	5.4
SPOT FREE RINSE	4.1	–	4.1	8.2
MIRROR RINSE SPOT FR	1.6	–	1.6	3.2
WRAP 1/2 H20	–	3.9	3.9	7.8
TOP BRUSH	–	0.37	0.37	0.74
MITTER 2 H20	1.09	–	1.09	1.18
MITTER 3 H20	–	1.12	1.12	2.24
SUB-TOTAL CAR WASH EQUIPMENT (B)				55.6
GROSS TOTAL A + B				66.6
RECLAINED WATER B X 60% = (C)				(33.4)
NET WATER USAGE A + C				33.2
TOTAL GPM AVAILABLE EXCEEDS 60				

EURYTHMIC DESIGN GROUP ARCHITECTS

1	05.15.2021
PERMIT REVIEW	

STATE OF TEXAS — RUSSELL HUNN — 23765

PROJ #2102

DEVELOPER
LAKEWOOD CAPITAL PARTNERS LLC
6909 TOKALON DRIVE
DALLAS, TEXAS 75214
CONTACT: JUAN-FELIPE CABRERA 214.695.0948

NEW EXPRESS CARWASH
KONNY'S CAR WASH
****
KINGS FORT PKWY NEAR US HWY 175 & SH. 34
KAUFMAN, KAUFMAN COUNTY TEXAS 75142

○ EURYTHMIC DESIGN GROUP ○ ARCHITECTS ○
V. G. JARRARD A.I.A.
11700 PRESTON ROAD SUITE 660 DALLAS, TX 75230
tel 214.361.1934 text 214.728.1211 email vincent@edg-architects.com
○ ARCHITECTURE ○ ART ○ INTERIOR ARCHITECTURE ○ FURNITURE DESIGN ○

SHEET:
P-2.1
13 OF 13 MEP SHEETS

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