

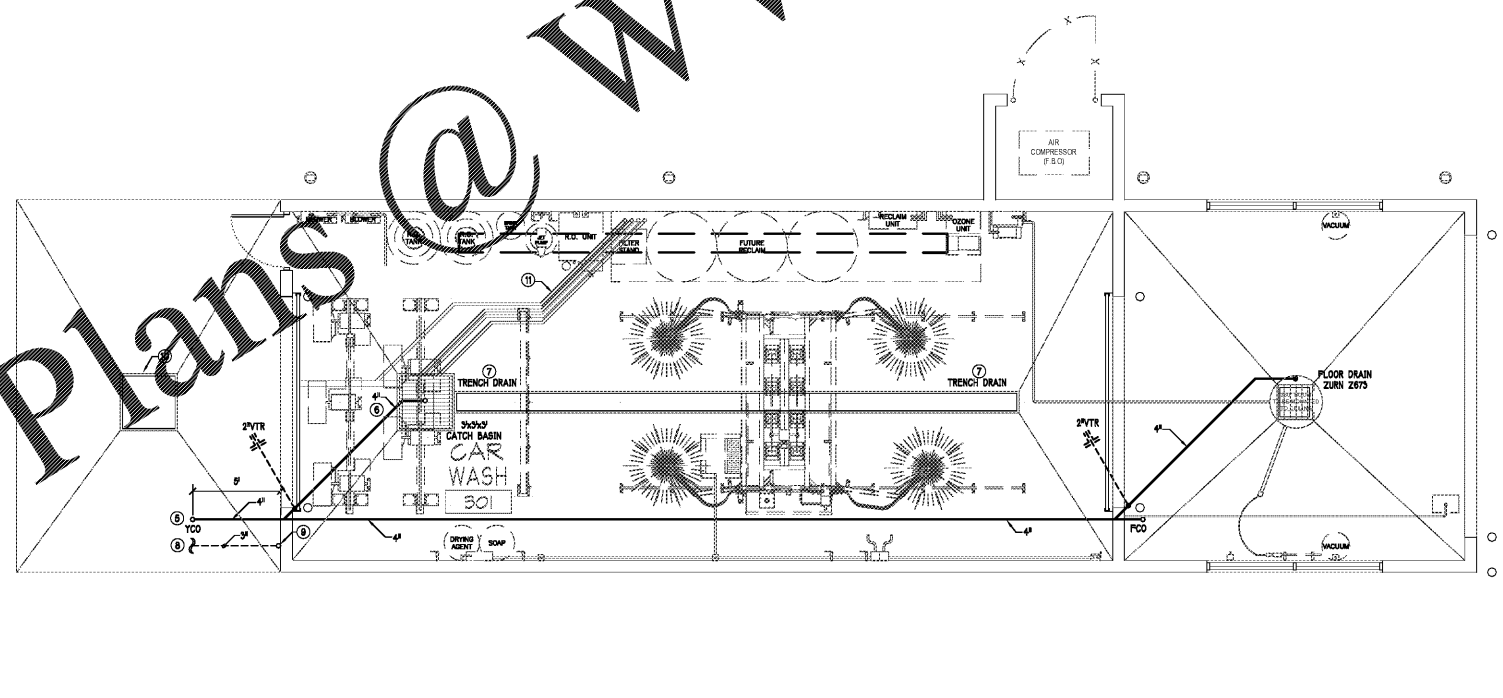
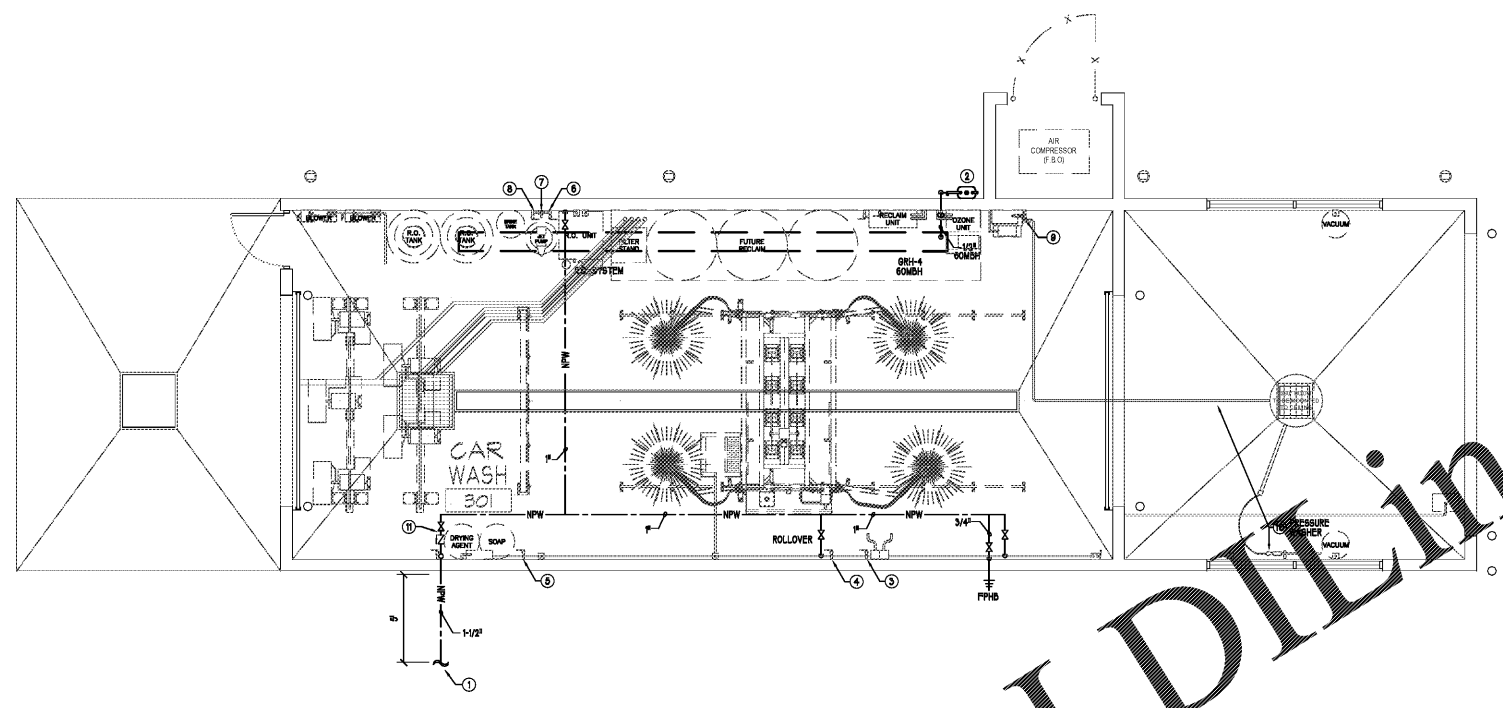
Sheet Template ID: CPE-F-07-B  
 File: Z:\Projects\4802\_South Charlotte Hyundai Redesign\4802P10 CARWASH PLUMBING PLANS\_Planetec\_3/1/2020 4:28 PM by ALEX E. LEVEN\_Somet\_3/1/2020 4:11 PM by DPALIVE

GAS LOAD TABLE LINE	
<b>LOW PRESSURE</b>	<b>HIGH PRESSURE</b>
PRESSURE DROP 0.5 IN.W.C.	ATMOSP. PRESSURE 14.6964 PSIA
STEEL (SCHD. 40)	FL 2 PSIG
LENGTH 50 FT	FL 1 PSIG
FITTINGS FACTOR 1.2	
EQUIVALENT TOTAL LENGTH 24 FT	LENGTH 50 FT
TOTAL TABLE LENGTH 50 FT	FITTINGS FACTOR 1.2
CAPACITY OF PIPES IN MSH	EQUIVALENT TOTAL LENGTH 24 FT
	TOTAL TABLE LENGTH 50 FT
	CAPACITY OF PIPES IN MSH
1/2" 85	1/2" 888
3/4" 169	3/4" 1760
1" 374	1" 3320
1-1/4" 768	1-1/4" 6580
1-1/2" 1150	1-1/2" 8880
2" 2220	2" 16000
2-1/2" 3530	
3" 6250	

NOTE:  
 GAS PIPING IS SIZED FOR 2 PSI NATURAL GAS @ TOTAL DEVELOPED LENGTH OF 60 FT. CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR LOW PRESSURE PIPING IF HIGH PRESSURE IS NOT AVAILABLE. CONTRACTOR SHALL VERIFY THE AVAILABILITY OF 2 PSI SERVICE BEFORE ANY WORK HAS BEGUN AND NOTIFY ARCHITECT IN WRITING OF AVAILABLE SERVICE. METER LOCATION SHOWN IS PROPOSED. NOTIFY ENGINEER IF DEVELOPED LENGTH EXCEEDS 60 FT TO MOST REMOTE FIXTURE.

COMBINED GAS LOAD SUMMARY	
GRH-4	60MSH
	60 MSH TOTAL

NOTE:  
 PROVIDE GAS REGULATOR AT EACH PIECE OF GAS-FIRED EQUIPMENT TO PROVIDE PRESSURE TO UNIT AS REQUIRED BY MANUFACTURER.



- ### CONSTRUCTION NOTES (WATER PIPING)
- 1/2" DOMESTIC WATER SERVICE - SEE SITE UTILITY PLAN CADD SHEET FOR CONTINUATION. PROVIDE DRAIN VALVE AND SHUT-OFF VALVE IN ROSE.
  - NEW GAS METER, REGULATOR AND UNDERGROUND SERVICE BY LOCAL GAS COMPANY. 60 MSB AT 2PSIG DELIVERY PRESSURE. 60' EQUIVALENT TOTAL LENGTH TO MOST REMOTE FIXTURE.
  - 1/2" AIR LINE WITH FEMALE THREADED BALL VALVE SHUT-OFF TURNED DOWN TO CONNECT TO ROLLER CAR WASH. POSITIONED 3'-0" FROM THE ENTRANCE END OF THE TRACK AND AS CLOSE TO THE CEILING AS POSSIBLE. MAX HEIGHT OF 1/2" FINISH AIR LINE OFF WITH DRAIN LINE 2' UP FROM FLOOR WITH BALL VALVE FOR MANUAL WATER DRAINAGE. DRAIN LINE DROPPED AT EITHER END OF TRACK. NOT STRAIGHT DOWN, TO REDUCE INTERFERENCE ON CAR WASH CONNECTIONS.
  - 1/2" CITY WATER LINE WITH FEMALE THREADED BALL VALVE SHUT-OFF TURNED DOWN TO CONNECT TO ROLLER CARWASH. POSITIONED 1'-0" FROM THE ENTRANCE END OF THE TRACK AND AS CLOSE TO THE CEILING AS POSSIBLE. MAX HEIGHT OF 1/2".
  - 1/2" R.O. WATER LINE WITH FEMALE THREADED BALL VALVE SHUT-OFF TURNED DOWN TO CONNECT TO R.O. UNIT. POSITIONED 1'-0" FROM THE ENTRANCE END OF THE TRACK AND APPROX. 10'-0" FROM FLOOR.
  - 1/2" CITY WATER LINE WITH FEMALE THREADED BALL VALVE SHUT-OFF TURNED DOWN TO CONNECT TO R.O. UNIT. INCOMING WATER - POSITIONED 6'-0" UP FROM FLOOR.
  - BYPASS 1/2" WATER LINE WITH FEMALE THREADED BALL VALVE SHUT-OFF TO CONNECT NOTER# AND NOTER# POSITION LINE 1'-0" FROM FLOOR. UP R.O. FAILURE OCCURS BYPASS SHALL LEAK.
  - 1/2" WATER LINE WITH FEMALE THREADED BALL VALVE SHUT-OFF TO CONNECT TO RISE ARCH AT ITEMS.
  - 1/2" CITY WATER LINE WITH FEMALE THREADED BALL VALVE SHUT-OFF TO CONNECT TO PRESSURE WASHER UNIT POSITION LINE ABOVE PRESSURE WASHER APPROX. 7' UP FROM FLOOR.
  - 3/8" HIGH PRESSURE STAINLESS STEEL TUBING/PIPING FROM PRESSURE WASHER UNIT TO WALL MOUNTED SHOWER. POSITION LINE 7' UP FROM FLOOR ABOVE PRESSURE WASHER.
  - RZ2 BACKFLOW PREVENTER EQUAL TO ZURN MODEL 678XL311. SHALL COMPLY WITH NCPIC 60813.1.

- ### CONSTRUCTION NOTES (SANITARY WASTE)
- 1000 GALLON OIL SEPARATOR EQUAL TO ROCKFORD MODEL RO-1000. SEE DETAIL 6174 FOR ADDITIONAL INFORMATION. PROVIDE WITH CODE COMPLIANT HEAVY DUTY ACCESS COVER SUITABLE FOR TRAFFIC LOADS AS DEEMED NECESSARY BY OWNER AND/OR AUTHORITY HAVING JURISDICTION. SEE CIVIL GRADING & DRAINAGE PLAN, SHEET C302 FOR EXACT LOCATION.
  - 4" SANITARY SEWER TO CLEANOUT CONSTRUCTED BY CHARLOTTE WATER. SEE CIVIL GRADING & DRAINAGE PLAN, SHEET C301, FOR CONTINUATION.
  - 3" VENT TO CARWASH.
  - 4" SANITARY WASTE FROM SERVICE GARAGE, SERVICE DRIVE AND CARWASH. SEE CIVIL GRADING & DRAINAGE PLAN, SHEET C301, FOR CONTINUATION.
  - 4" SANITARY WASTE LINE TO OIL SEPARATOR, SEE CIVIL GRADING & DRAINAGE PLAN, SHEET C302, FOR CONTINUATION.
  - 4" OVERFLOW DRAIN LINE UNDER CONCRETE FLOOR FROM TOP OF CATCH BASIN TO CONNECT TO SANDVIG SEPARATOR AND CITY SEWER.
  - PROVIDE WITH GALVANIZED DUCTILE IRON, SLOTTED AND RATED HEAVY DUTY "CLASS 2" GRATE. TRENCH DRAIN CHANNEL TO BE DESIGNED WITH CONCRETE.
  - 3" VENT FROM OIL SEPARATOR.
  - 3" VENT UP WALL 1'0" A.P.S. AND TERMINATE WITH GOOSE NECK.
  - SPOT DRAIN TO DISCHARGE TO STORM WATER SYSTEM. SEE CIVIL GRADING & DRAINAGE PLAN, SHEET C302, FOR CONTINUATION.
  - QUANTITY OF 2: 2" FILL (SUMP PUMP) LINE UNDER CONCRETE FLOOR FROM RECLAIM TANK/SUMP PIT TO POSITION NEXT TO 5' FUTURE RECLAIM HOLDING TANK. END OF LINE NEAR HOLDING TANK TO BE STUBBED 12" UP FROM FLOOR.

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Revisions:  

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**SOUTH CHARLOTTE HYUNDAI**

Project No.: **4802.00**

Drawing Title:  
**CARWASH PLUMBING PLANS**

SET ISSUE DATE  
 MAR 4, 2020

Sheet:  
**P10**