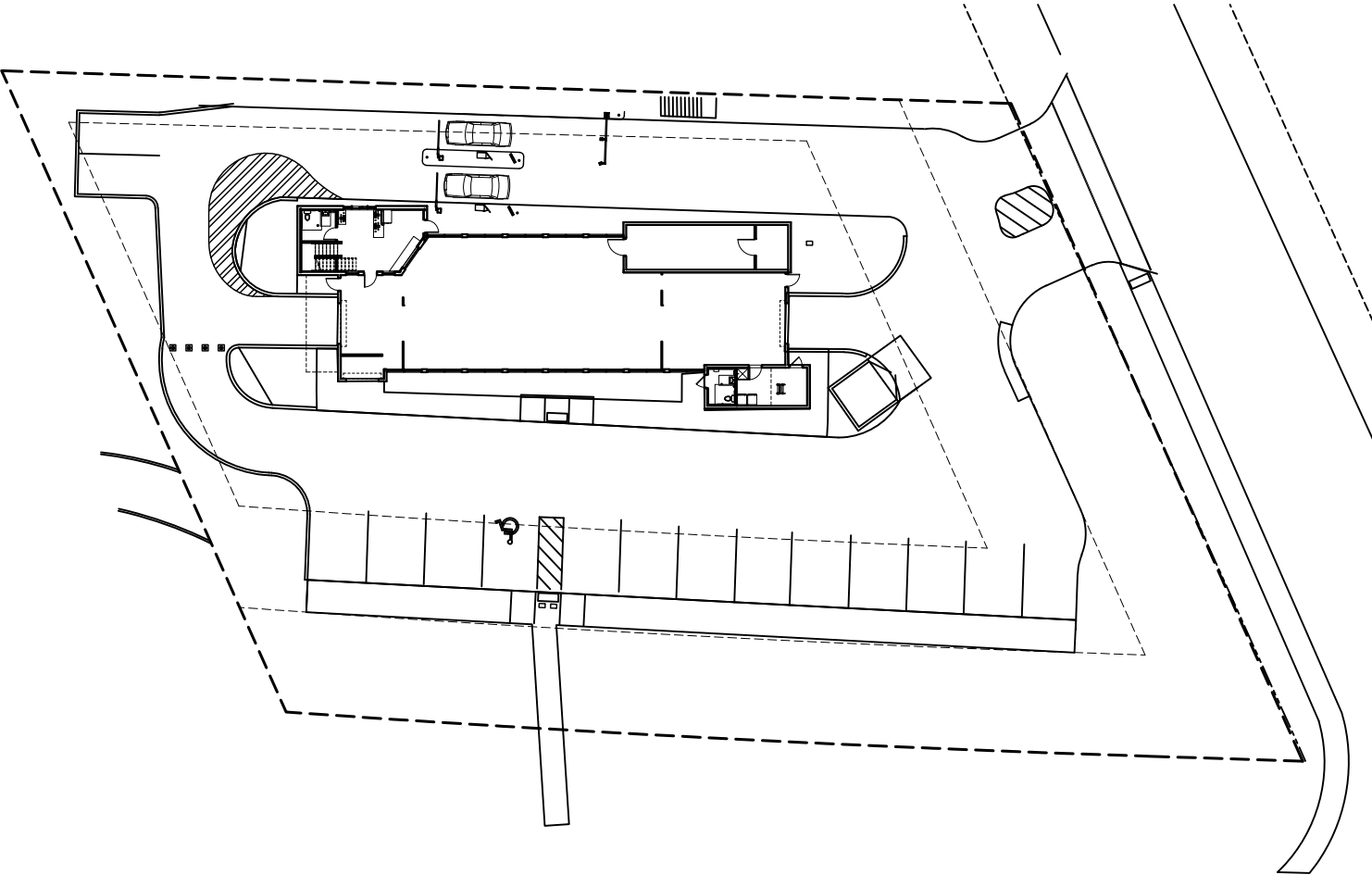


Make CarWashing Easy



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Project Number:	220985-E12
Project Name:	K2 - CANDACE
Location:	FL
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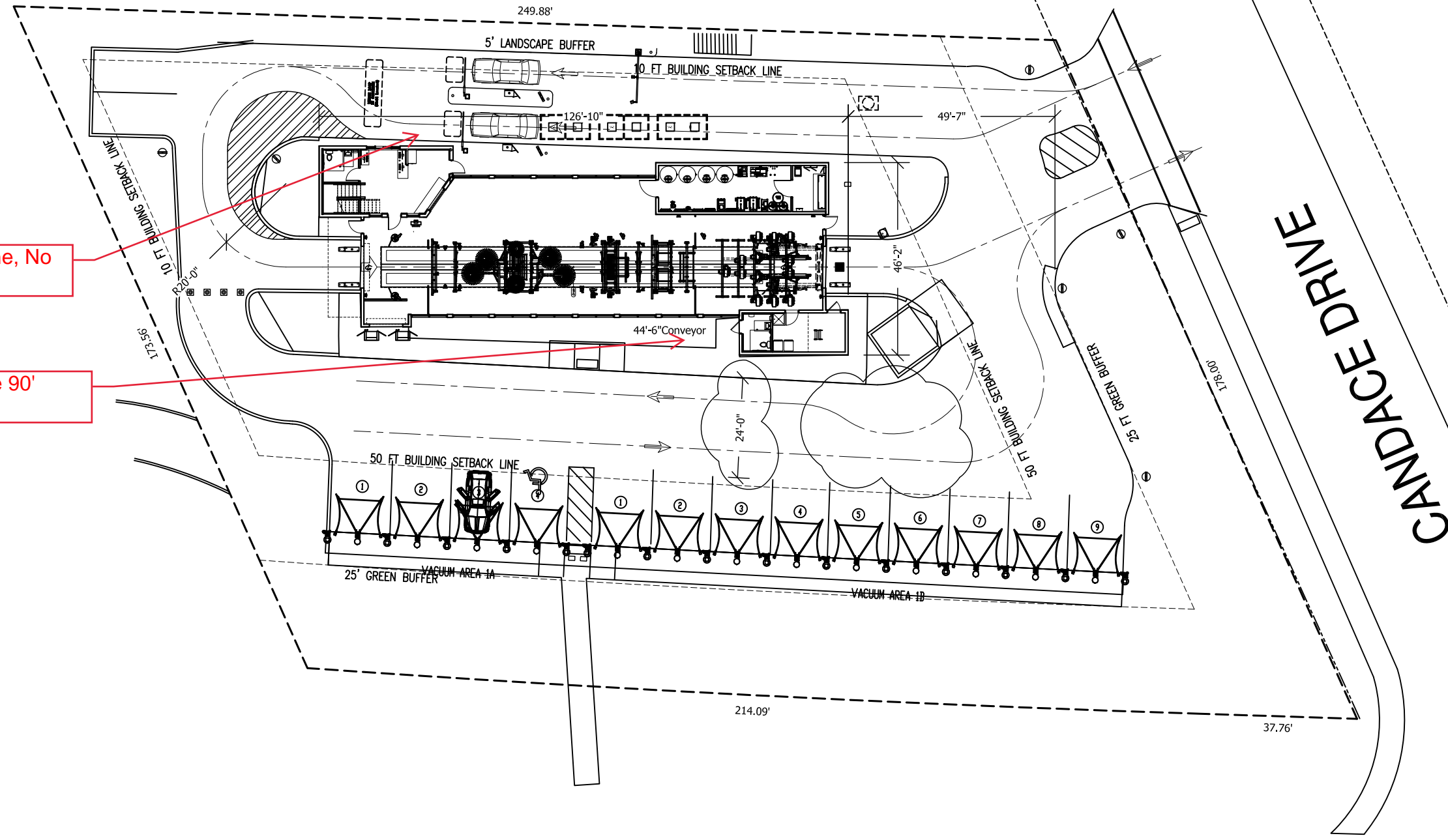
TUNNEL ENTRANCE AND EXIT SLABS:
 PROVIDE MINIMUM 20'-0" LONG CONCRETE SLABS OUTSIDE OF THE BUILDING AT THE ENTRANCE AND EXIT OF THE TUNNEL.

CONCRETE WITHIN 20' OF THE ENDS OF THE TRENCH PIT MUST SLOPE 1/4" PER 1'-0" DOWNWARD ALONG THE DIRECTION OF CAR TRAVEL (SLOPE DOWN TOWARDS TRENCH PIT AT ENTRANCE AND AWAY FROM TRENCH PIT AT EXIT). THIS MAY INCLUDE PORTIONS OF BOTH THE TUNNEL SLAB AND ENTRANCE/EXIT SLABS. GRADE ENDS/BEGINS AT PIT EDGE. NO BUMPS OR DIVOTS ARE PERMISSIBLE. GRIND SMOOTH TO ENSURE SMOOTH ROLLING OF VEHICLES.

SLOPE THE REMAINING LENGTH OF ENTRANCE AND EXIT SLABS AS DIRECTED BY PROJECT CIVIL ENGINEER.

Cashier Lane, No Pay station

Should be 90' conveyor



SOUTH U.S. HIGHWAY 17-92

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SITE LAYOUT

Scale:

1"=30'



Location: FL

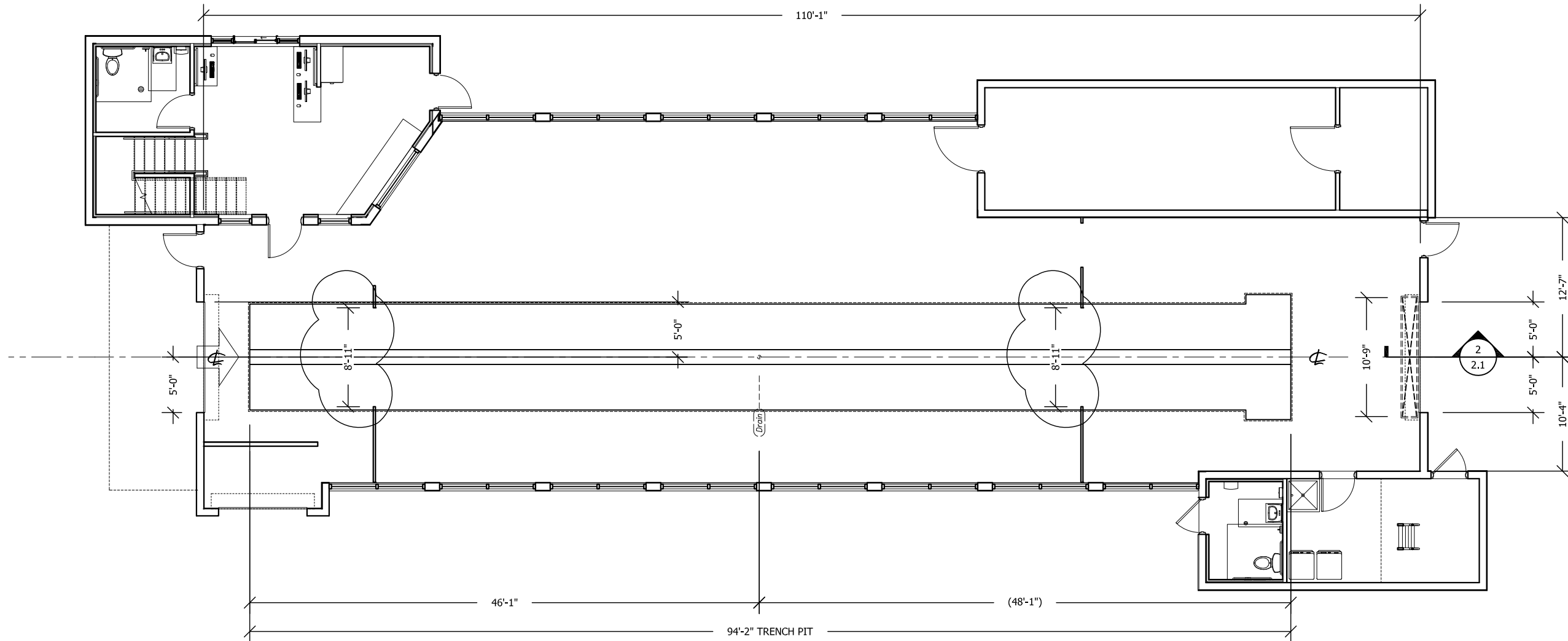
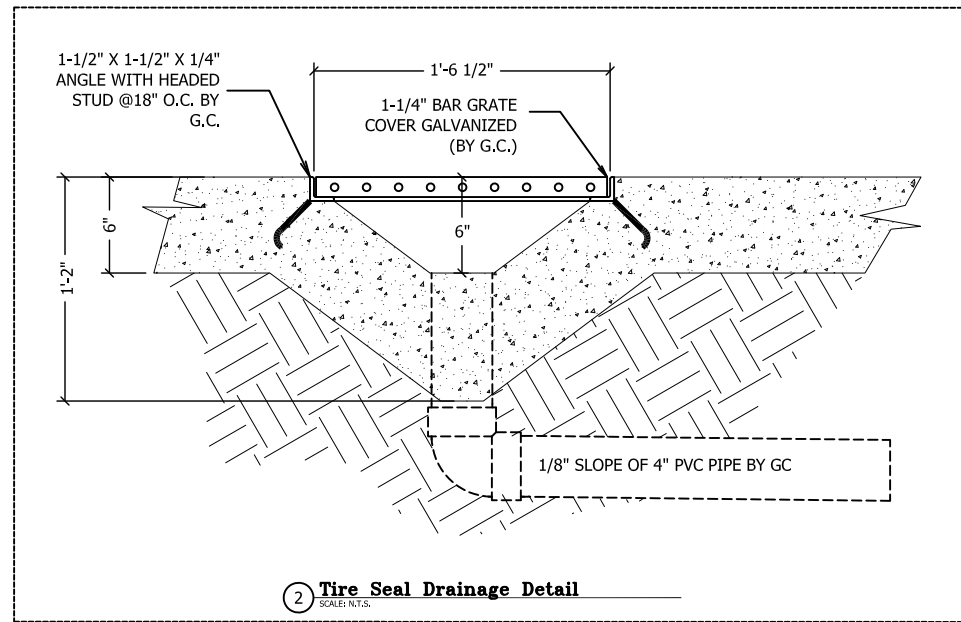
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TRENCH PIT LAYOUT; GC

Scale:
3/32"=1'



Location:
FL

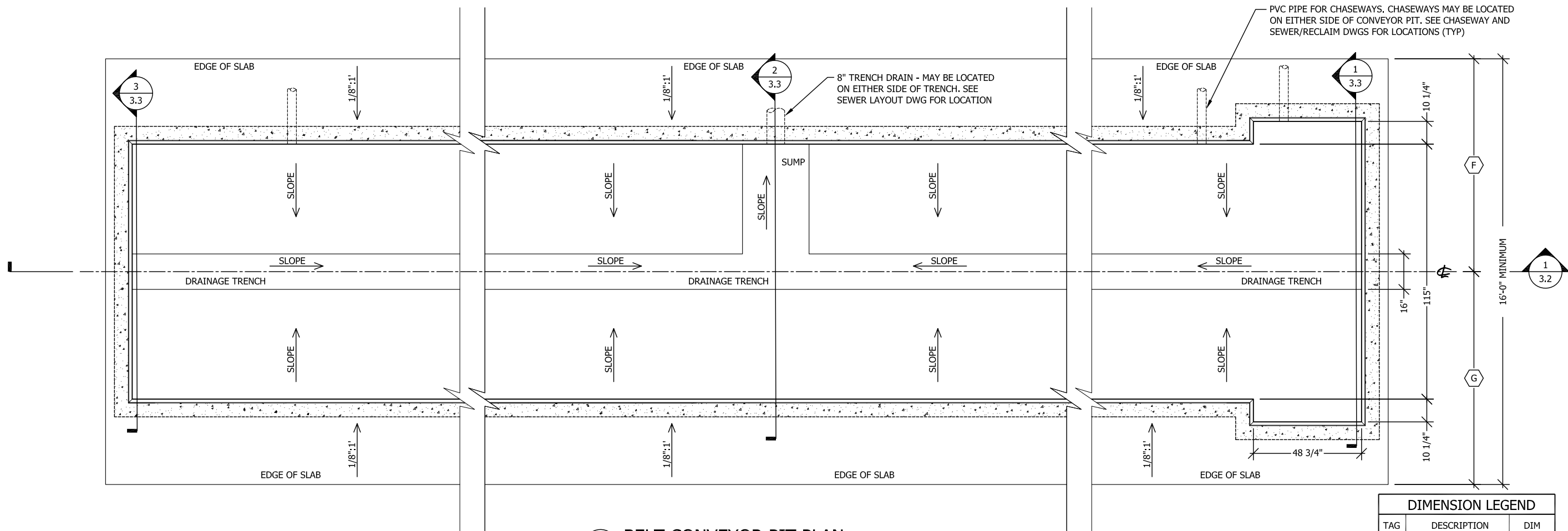
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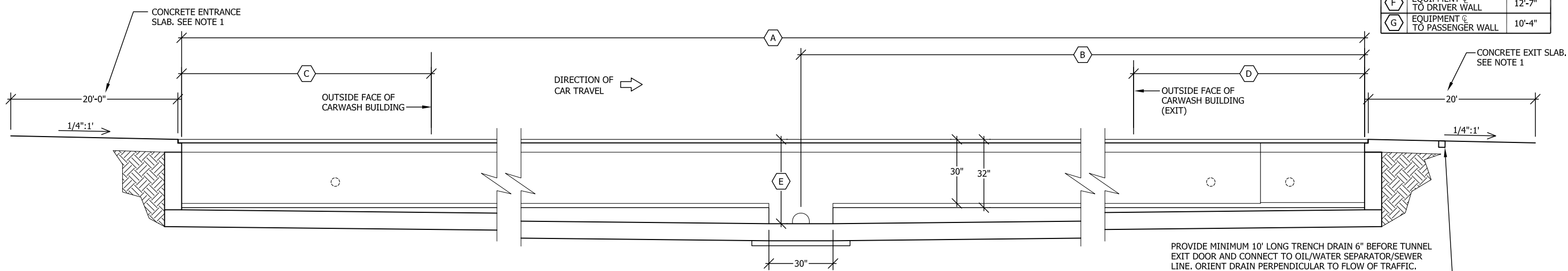
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2 BELT CONVEYOR PIT PLAN
SCALE: N.T.S.

- NOTES:**
- SLOPE CONCRETE AT ENTRANCE AND EXIT AS INDICATED. GRADE ENDS/BEGINS AT PIT EDGE. NO BUMPS OR DIVOTS ARE PERMISSIBLE. GRIND SMOOTH TO ENSURE SMOOTH ROLLING OF VEHICLES.
 - THIS DRAWING TO SERVE AS A GUIDELINE ONLY. PIT DESIGN MUST BE CHECKED BY A STRUCTURAL ENGINEER AND ABIDE BY ALL APPLICABLE LOCAL CODES AND REGULATIONS.

DIMENSION LEGEND		
TAG	DESCRIPTION	DIM
A	TRENCH PIT LENGTH	94'-2"
B	BEGINNING OF TRENCH PIT TO DRAIN	48'-1"
C	TRENCH PIT OUTSIDE BUILDING (ENTRANCE)	N/A
D	TRENCH PIT OUTSIDE BUILDING (EXIT)	N/A
E	MAX DEPTH OF DRAINAGE TRENCH	39"
F	EQUIPMENT G TO DRIVER WALL	12'-7"
G	EQUIPMENT G TO PASSENGER WALL	10'-4"



1 TRENCH SECTION
SCALE: N.T.S.

PROVIDE MINIMUM 10' LONG TRENCH DRAIN 6" BEFORE TUNNEL EXIT DOOR AND CONNECT TO OIL/WATER SEPARATOR/SEWER LINE. ORIENT DRAIN PERPENDICULAR TO FLOW OF TRAFFIC. ENSURE THAT DRAIN GRATE IS FLUSH WITH CONCRETE. ANGLE AT SAME SLOPE AND ELEVATION AS EXIT SLAB TO ENSURE SMOOTH ROLLING OF VEHICLE. NO BUMPS OR DIVOTS ARE PERMISSIBLE.

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CONVEYOR TRENCH PIT; GC

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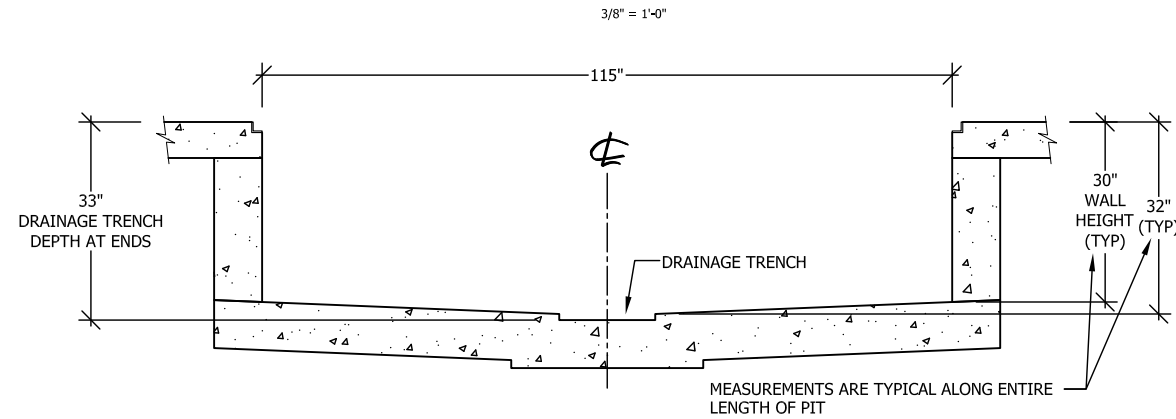
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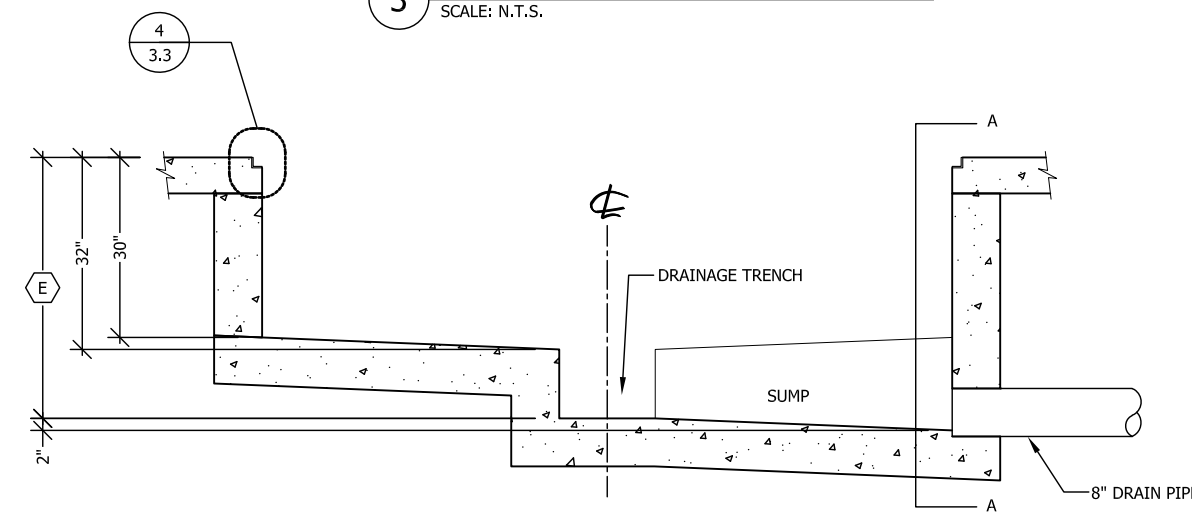
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STRUCTURAL NOTES

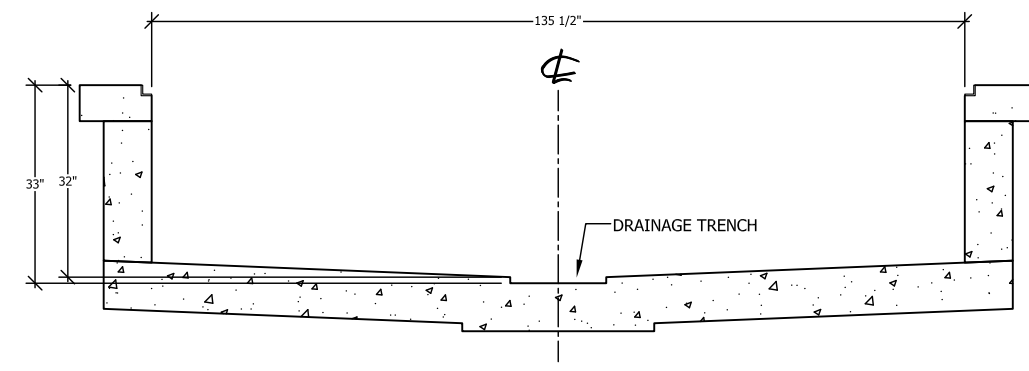
- DESIGN:** DIMENSIONS AND TOLERANCE SHOWN ARE REQUIRED FOR PROPER INSTALLATION OF CAR WASH EQUIPMENT. STRUCTURE SHOWN IS SUGGESTED CONSTRUCTION. THE ARCHITECT AND/OR ENGINEER OF RECORD SHALL VERIFY THAT THE STRUCTURE SHOWN IS APPROPRIATE FOR THIS PARTICULAR PROJECT AND SHALL ALTER/MODIFY DESIGN AS REQUIRED TO SATISFY THE REQUIREMENTS OF THE PROJECT.
- SOIL:** DESIGN SHOWN ASSUMES THAT THE SOIL CONDITIONS AT THE SITE ARE SATISFACTORY AND HAVE ADEQUATE BEARING CAPACITY FOR THE LOADS TO BE IMPOSED, WITH MINIMAL DIFFERENTIAL SETTLEMENT OF THE TRENCH, SLAB, AND CAR WASH STRUCTURES. IF IT IS FOUND THAT THE SOIL ON THE SITE CONTAINS ORGANICS, AND CAN NOT BE SUFFICIENTLY COMPACTED OR HAS OTHER DELETERIOUS PROPERTIES, THE TRENCH SHALL BE REDESIGNED FOR SUPPORT ON A PILING FOUNDATION. THE ARCHITECT AND/OR ENGINEER OF RECORD SHALL VERIFY THE SOIL CONDITIONS AT THE SITE.
- CONVEYOR TRENCH CONSTRUCTION:** EXCAVATE TRENCH TO A POINT AT OR JUST BELOW THE BOTTOM OF TRENCH SLAB SHOWN. SLOPE EXCAVATION TO MATCH SLOPE OF TRENCH. COMPACT SOIL UNDER TRENCH IN ACCORDANCE WITH SOIL ENGINEER'S RECOMMENDATION. FORM AND POUR TRENCH BOTTOM SLAB. FORM TRENCH WALLS, INSERT SLEEVES FOR PLUMBING INSTALLATIONS, AND POUR TO A POINT JUST BELOW THE SLAB OVER POUR SHOWN. AFTER ADEQUATE CURING TIME, BACK FILL AND COMPACT CLEAN SOIL BEHIND TRENCH WALLS IN ACCORDANCE WITH SOIL ENGINEER'S DIRECTION. COMPLETE TRENCH BY POURING SURROUNDING FLOOR SLAB AND ANY ADDITIONAL FEATURES DEPENDING ON TRENCH/CONVEYOR TYPE (DRAINAGE SLOPE FOR SELF-CLEANING TRENCH; CORRELATOR PIT IF APPLICABLE).
- SLAB FINISHES:** ALL CAR WASH VEHICULAR SLABS SHALL BE FINISHED WITH ROUGH NON-SKID SURFACE (BROOM FINISH). BRUSH LINES IN THE FINISH SHALL BE PARALLEL TO THE DIRECTION OF SLOPE.
- APPROACH & EXIT SLABS:** CONCRETE APPROACH AND EXIT SLABS SHALL EXTEND A MINIMUM OF 20 FEET FROM EITHER END OF THE TRENCH. SLOPES OF SLABS DEPEND ON TRENCH AND CONVEYOR TYPE. SEE TRENCH DRAWINGS FOR MORE INFORMATION.
- CONCRETE STRENGTH:** ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS NOTED OTHERWISE AND SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF $f_c = 3000$ PSI.
- MIXES:** ALL CONCRETE MIXES SHALL BE DESIGNED BY THE SUPPLIER TO MEET THE REQUIREMENTS SET FORTH HEREIN.
- SLUMP:** UNLESS NOTED OR APPROVED OTHERWISE, THE MAXIMUM SLUMP ALLOWABLE FOR CONCRETE SHALL BE FOUR (4) INCHES. IF HIGHER SLUMP IS DESIRED TO INCREASE WORKABILITY, THE CONTRACTOR SHOULD CONSULT WITH THE CONCRETE SUPPLIER ABOUT USING A CONCRETE ADDITIVE THAT WILL INCREASE SLUMP WITHOUT INCREASING THE WATER CEMENT RATIO OF THE CONCRETE. THE CONTRACTOR SHALL VERIFY THAT ANY CONCRETE ADDITIVES SHALL NOT HAVE ANY DETRIMENTAL EFFECTS ON EMBEDDED ITEMS, FINISHES INDICATED ON THE PLANS OR LIKELY FUTURE FINISHES.
- VIBRATION:** ALL CAST IN PLACE CONCRETE SHALL BE CONSOLIDATED BY MEANS OF MECHANICAL VIBRATORS. THE CONTRACTOR SHALL USE PROPERLY TRAINED PERSONNEL TO ASSURE THAT THE CONCRETE IS NOT OVER OR UNDER VIBRATED, RESULTING IN OVER OR UNDER CONSOLIDATION OF THE CONCRETE.
- FINISHING:** FINISHING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 (LATEST EDITION).
- CURING:** BEGINNING IMMEDIATELY AFTER PLACEMENT, CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY, AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR HYDRATION OF THE CEMENT AND HARDENING OF THE CONCRETE. THE MATERIALS AND METHODS OF CURING SHALL CONFORM TO ACI 301.
- REINFORCING STEEL STRENGTH:** ALL CONVENTIONAL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND SHALL CONFORM TO ASTM DESIGNATION A-615 GRADE 60.
- STRENGTH OF MASONRY UNITS:** ALL HOLLOW CONCRETE MASONRY UNITS SHALL BE GRADE N-1 NORMAL WEIGHT UNITS THAT CONFORM TO THE "STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS" ASTM C-90 (LATEST EDITION). THE MINIMUM COMPRESSIVE STRENGTH OF THE HOLLOW CONCRETE MASONRY UNITS AT 28 DAYS SHALL BE 2500 PSI (NET AREA) WITH A MINIMUM COMPRESSIVE STRENGTH OF THE MASONRY ASSEMBLY $f_m = 1500$ PSI.
- MORTAR:** ALL MASONRY SHALL BE LAID WITH FULL MORTAR COVERAGE OF THE FACE SHELLS AND WEBS AND FULL END JOINTS USING TYPE M OR S MORTAR. ALL MORTAR USED IN THE HOLLOW CONCRETE MASONRY UNIT WALLS SHALL CONFORM TO ASTM 270 (LATEST EDITION).
- CONCRETE GROUT:** ALL FILLED CELLS OF MASONRY UNITS SHALL BE FILLED WITH CONCRETE GROUT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND A MAXIMUM SLUMP OF 9".
- BLOCK PLACEMENT:** ALL CELLS TO BE FILLED WITH CONCRETE SHALL BE AS STRAIGHT AS POSSIBLE. THE BLOCK SHOULD NOT BE STAGGERED SO AS TO CONSTRICT THE FLOW OF CONCRETE IN ANY WAY. THIS SHALL BE DONE BY STRATEGICALLY PLACING PIECES OF BLOCK VERTICALLY BETWEEN FILLED CELLS IN NON MODULAR SECTIONS OF WALL AND ABOVE AND BELOW NON MODULAR MASONRY OPENINGS.
- STRUCTURAL STEEL SHAPES:** ALL STRUCTURAL STEEL HOT ROLLED SHAPES AND PLATES SHALL BE ASTM A36 WITH A MINIMUM YIELD STRESS OF 36 KSI. ALL STEEL SHALL CONFORM TO AISC STANDARDS AND SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL.
- BOLTS:** ALL BOLTS SHALL CONFORM TO "SPECIFICATIONS FOR LOW CARBON STEEL EXTERNALLY AND INTERNALLY THREADED STANDARD FASTENERS" ASTM A307 OR "HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS" ASTM A325.



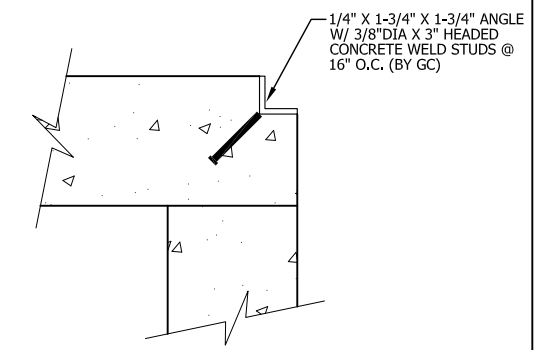
3 PIT SECTION AT ENTRANCE END
SCALE: N.T.S.



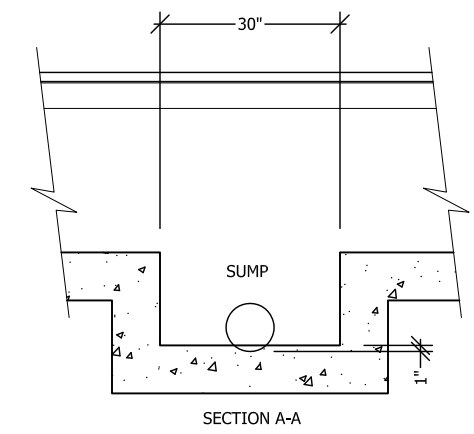
2 PIT SECTION AT SUMP PIT/TRENCH DRAIN
SCALE: N.T.S.



1 PIT SECTION AT EXIT END
SCALE: N.T.S.



4 PIT EDGE ANGLE
SCALE: N.T.S.



SECTION A-A

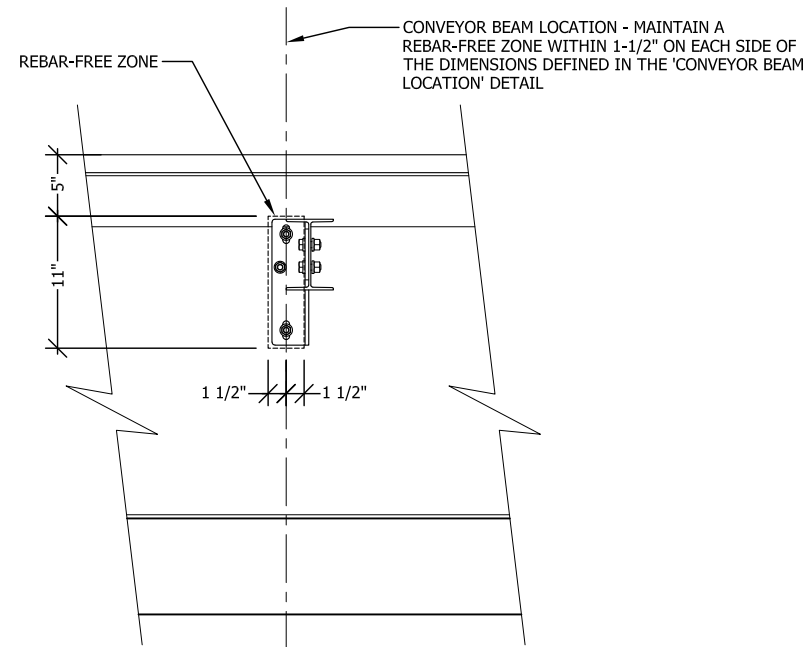
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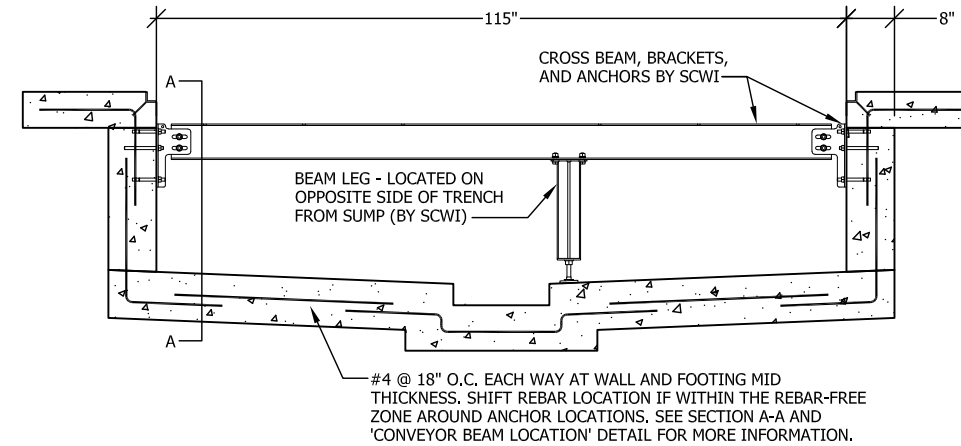
CONV. SECTION THRU TRENCH; GC
TRASH PIT

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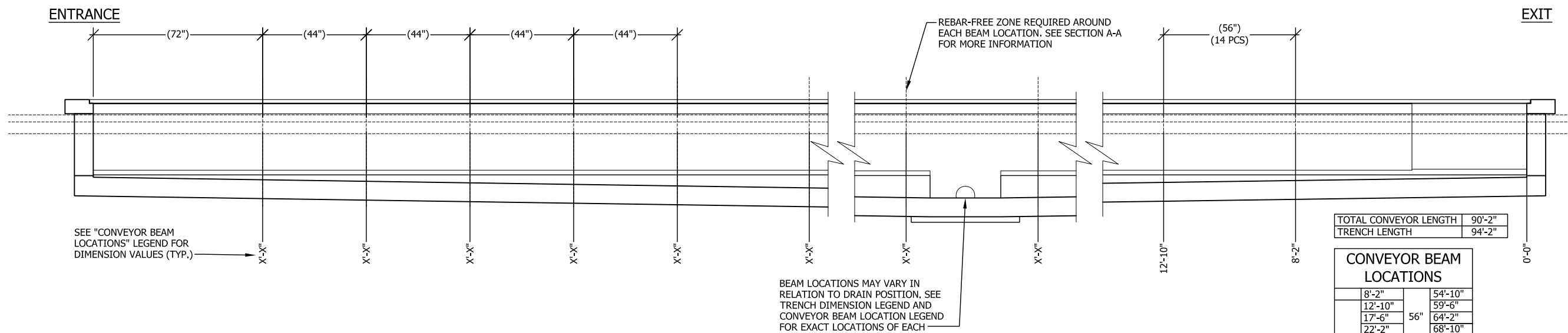
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3 SECTION A-A
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2 TRENCH SECTION - CONVEYOR BEAM
SCALE: N.T.S.



1 CONVEYOR BEAM LOCATIONS
SCALE: N.T.S.

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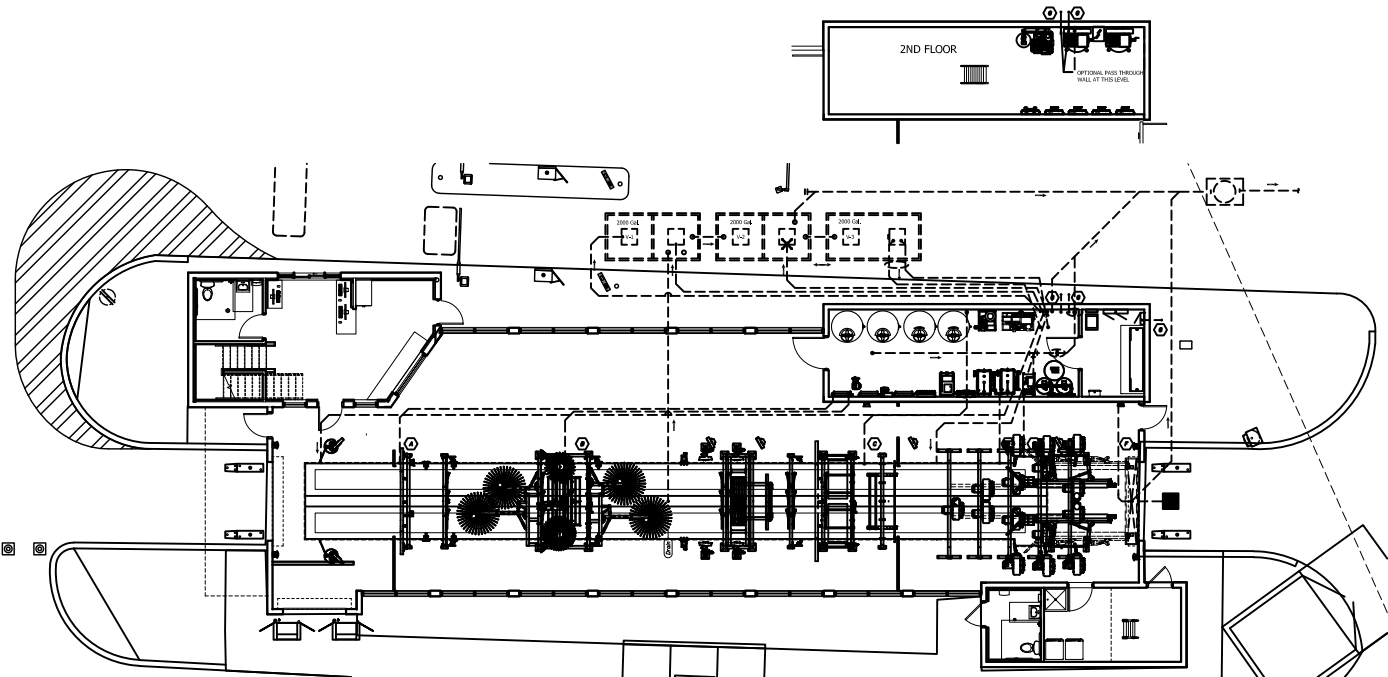
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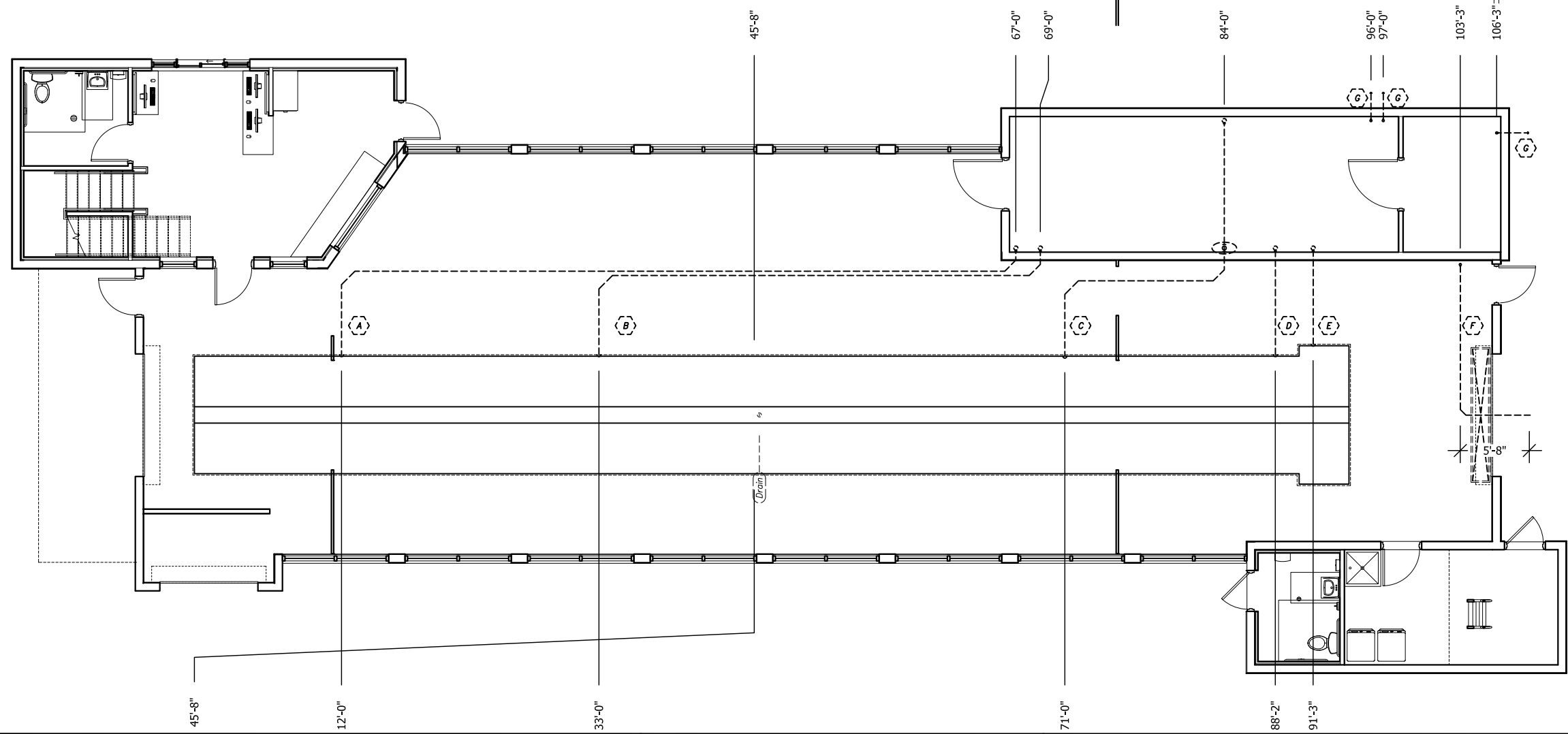
CHASEWAYS NOTES

- SLOPE CHASEWAYS TO DRAIN INTO TRENCH
- 90° BENDS IN CHASEWAYS SHALL BE MADE USING "SWEEP" ELBOWS OR TWO (2) 45° ELBOWS OR "SWEEP" TEE WHEN APPLICABLE.

TYPICAL BELT PIT CHASEWAY INSTALLATION DETAIL
N.T.S.

CHASEWAY CONFIGURATION SHOWN IS SONNY'S MINIMUM RECOMMENDATION BASED ON EQUIPMENT PACKAGE. ADDITIONAL CHASEWAYS MAY BE REQUIRED BY OWNER. VERIFY WITH OWNER PRIOR TO INSTALLATION.

NO.	CHASEWAY SCHEDULE		
A	4" PVC PIPE	PHOTO EYE	ELECTRIC
B	4" PVC PIPE	UNDER CARRIAGE	WATER
C	4" PVC PIPE	DRAIN	
D	4" PVC PIPE	PULSE SWITCH	ELECTRIC
E	4" PVC PIPE	CONVEYOR	ELECTRIC
F	2" PVC PIPE	ANTI COLLISION BOX	ELECTRIC
G	1" SCH80 PVC PIPE	SITE DEVICES	CHEMICAL
H	2" SCH40 PVC CONDUIT	SITE DEVICES	PNEUMATIC



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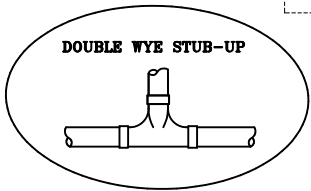
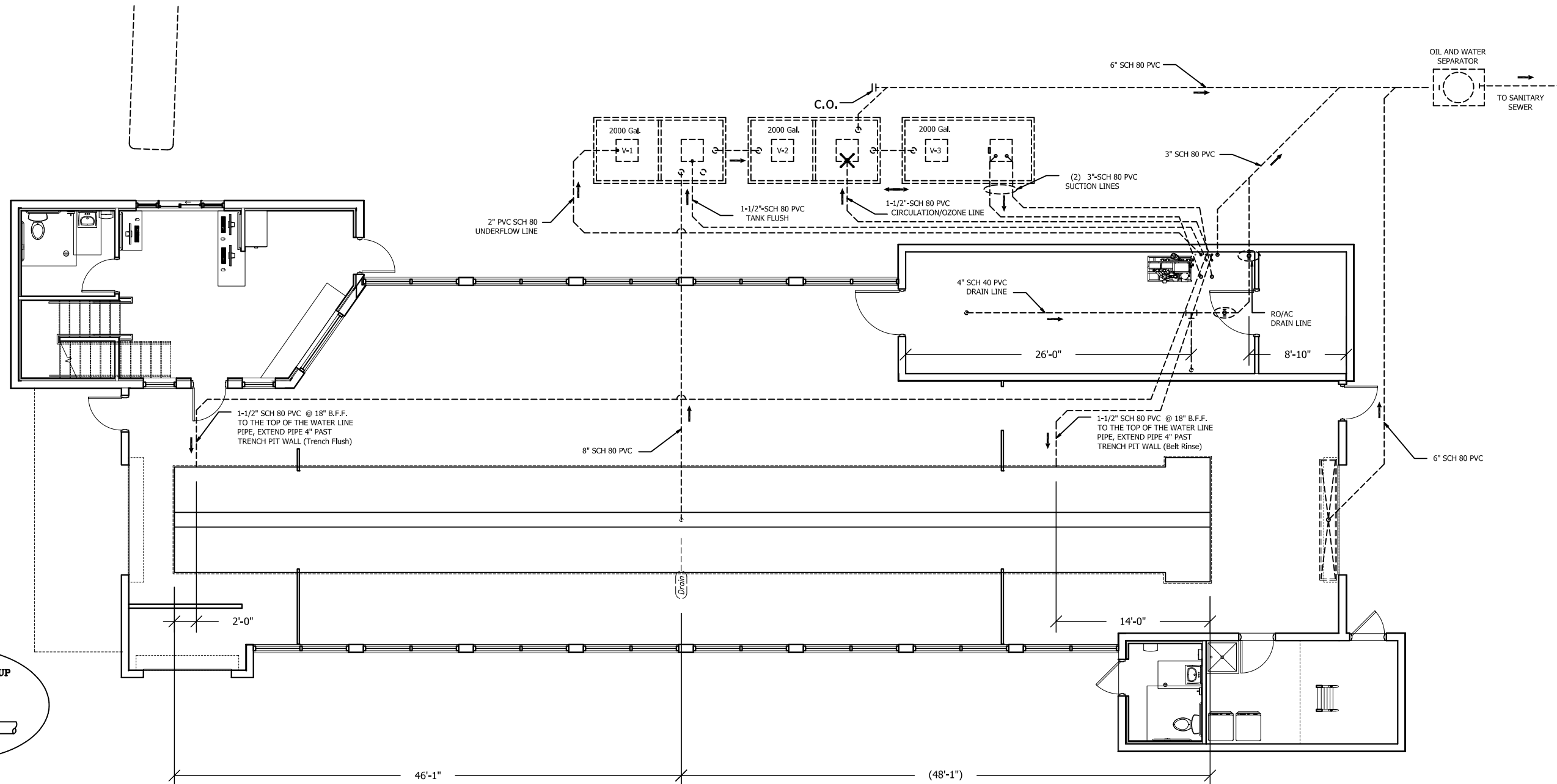
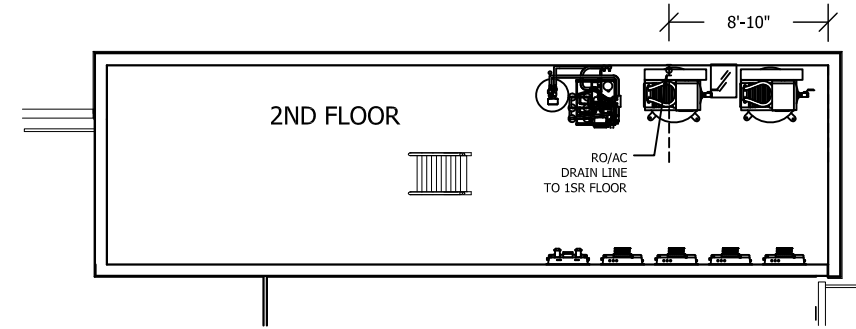
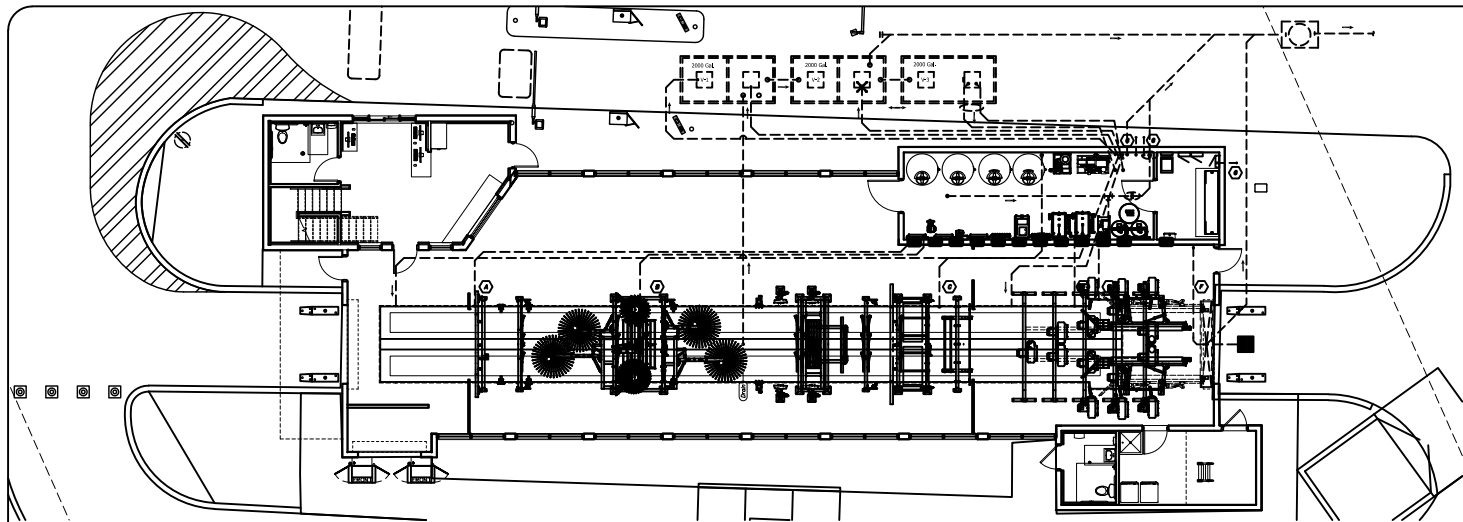
CHASE WAY; GC

Scale:
3/32"=1'

CRTD DATE:	12.07.22
CRTD BY:	LV
REV DATE:	03.10.23
DWN BY:	JCH
CHKD BY:	

SONNY'S
The CarWash Factory
<http://www.SonnyDirect.com>

Project Number:	220985-E12
Project Name:	K2 - CANDACE
Location:	FL
Rev.	- + -
Sheet	4.1
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DISCLAIMER

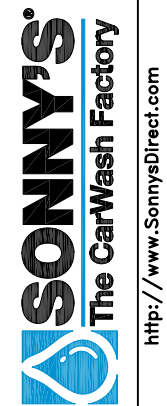
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RECLAIM/SEWER LAYOUT; GC

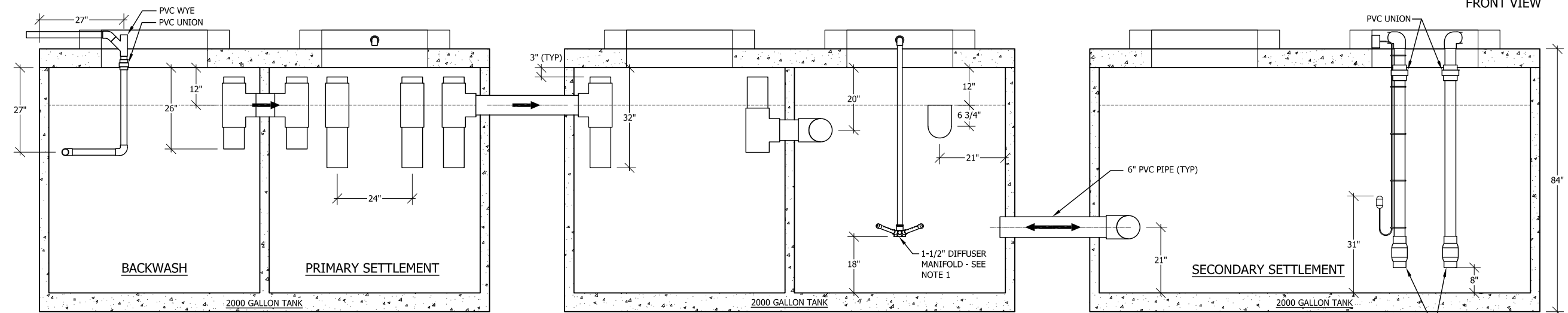
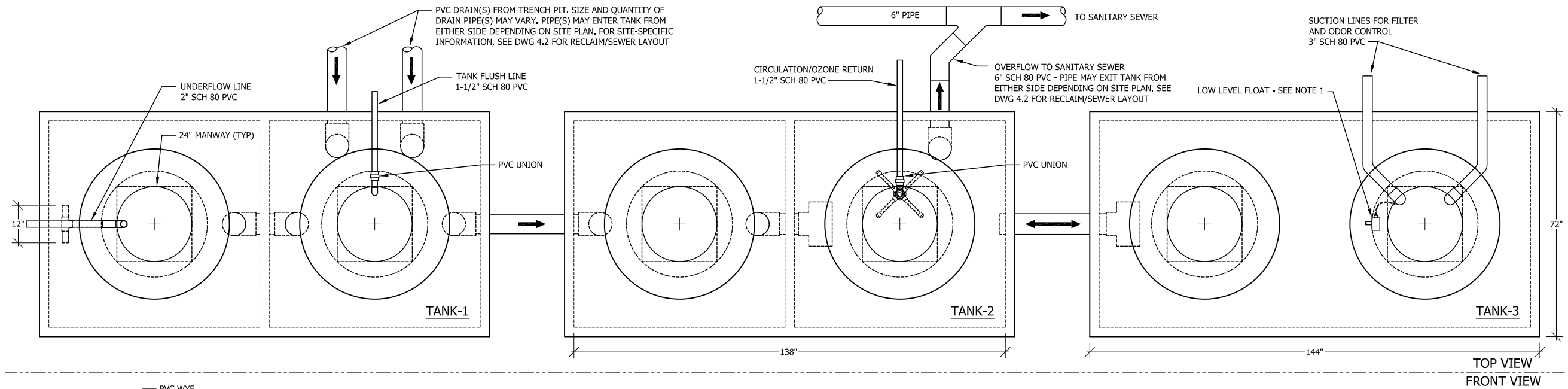
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3/32"=1'

CRTD DATE:	12.07.22
CRTD BY:	LV
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CHKD BY:	



Location:	FL
Project Number:	220985-E12
Project Name:	K2 - CANDACE
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NOTES:

1. DIFFUSER MANIFOLD, LOW LEVEL FLOAT, AND FLAPPER FOOT VALVES PROVIDED BY SONNY'S, INSTALLED BY GC. COORDINATE WITH CAR WASH INSTALLER.
2. ALL PLUMBING MUST BE RUN BELOW THE FROST LINE. IN REGIONS WHERE FREEZING MAY OCCUR, POSITION TANKS TO ENSURE COMPLIANCE.
3. ALL TANK BOTTOMS MUST BE LEVEL.
4. DRAWINGS ARE FOR REFERENCE ONLY. CONSULT WITH TANK MANUFACTURER TO IDENTIFY STANDARD CONFIGURATIONS FOR APPROVED APPLICATIONS.
5. SEAL ALL PENETRATIONS TO PREVENT LEAKAGE INTO THE SOIL.
6. IN APPLICATIONS THAT ARE AT RISK OF A SEWAGE BACKUP INTO THE RECLAIM SYSTEM, INSTALLATION OF A BACK FLOW PREVENTER IS RECOMMENDED.
7. APPROXIMATE TANK VOLUME IS 2000 GALLONS EACH. THE FIRST 2000 GALLONS IS FOR THE SEPARATION OF HEAVY SOLIDS WITH THE REMAINING 4000 RESERVED FOR SETTLING OF FINER CONTAMINANTS.
8. AN ADDITIONAL SAND/OIL SEPARATOR SHALL BE ADDED TO TANKING CONFIGURATION PER CITY/STATE REQUIREMENTS.
9. ALL UNDERGROUND TANKS AND PIPING BY CONTRACTOR.
10. PIPES MAY BE LOCATED ON EITHER SIDE OF TANKS (SEE 4.2 FOR LOCATIONS).
11. UNLESS OTHERWISE NOTED, ALL INTERNAL TANK PLUMBING TO BE 6" SCH 40 PVC.
12. IN REGIONS THAT MAY INCLUDE DIRT ROADS, OFF-ROAD OPERATIONS, OR FARMING CONDITIONS, THE ADDITION OF A MUD/HEAVY SOLIDS SEPARATION TANK TO THE STANDARD CONFIGURATION IS RECOMMENDED.
13. PROVIDE TRAFFIC-RATED TANKS WHEN LOCATED BENEATH DRIVE LANES OR PARKING LOT/VACUUM AREA.

1 3-TANK VELOCITY RECLAIM SYSTEM DETAIL
SCALE: N.T.S.

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RECLAIM TANK SYSTEM; GC

Scale:

N.T.S.



Location: FL

Project Number: 220985-E12
Project Name: K2 - CANDACE

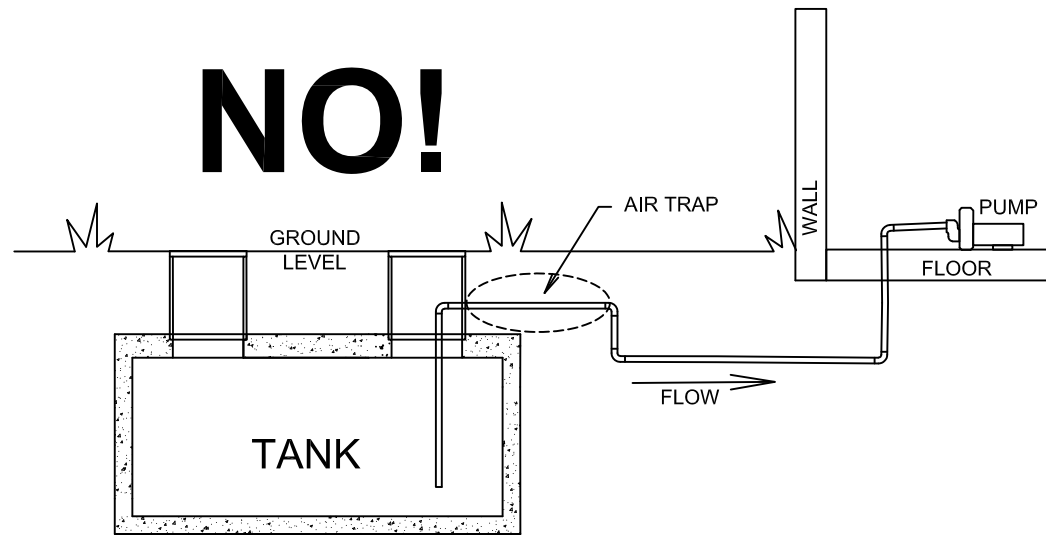
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CRTD BY: LV
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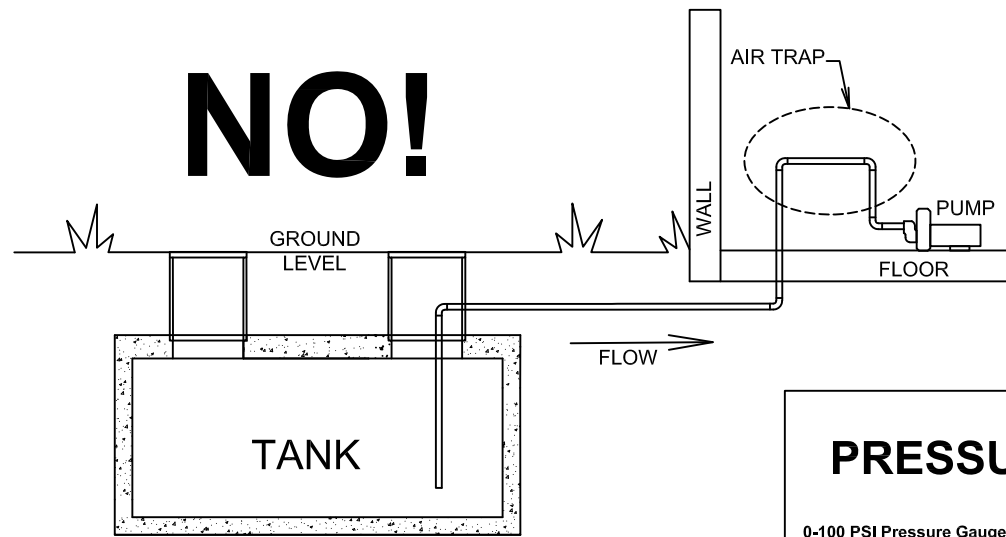
NO!



BELOW GROUND TANKS

ALL suction lines must NEVER slope down and then back up again (Air Trap).

NO!

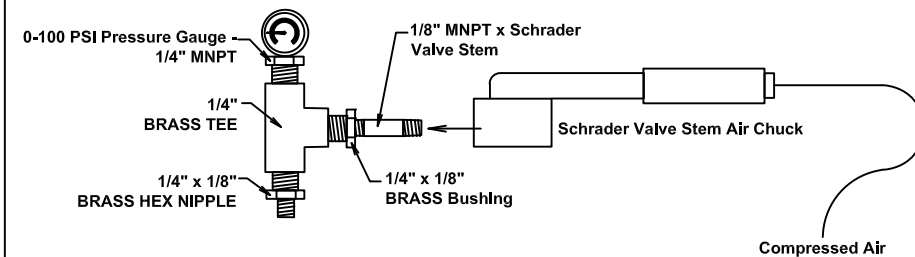


BELOW GROUND TANKS

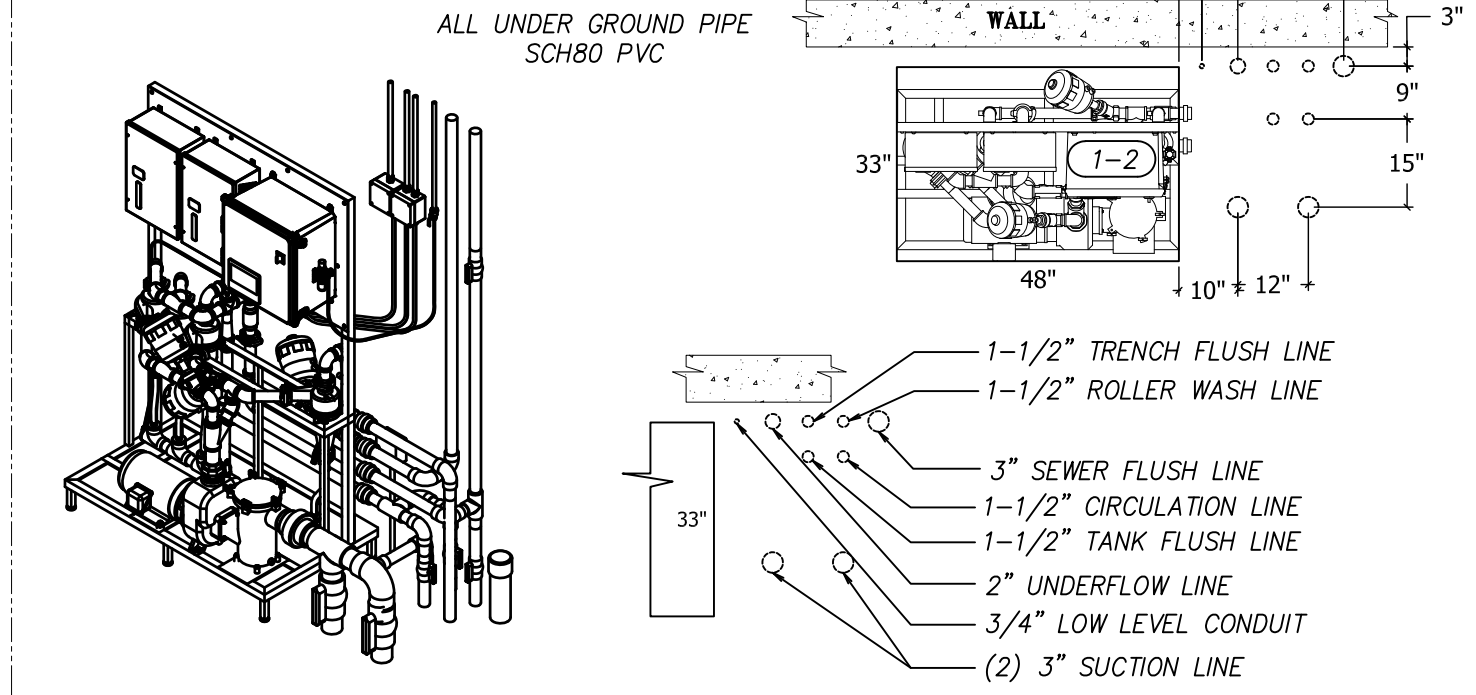
ALL suction lines must NEVER slope up and then back down again (Air Trap).

ANY QUESTIONS CONTACT SONNY'S

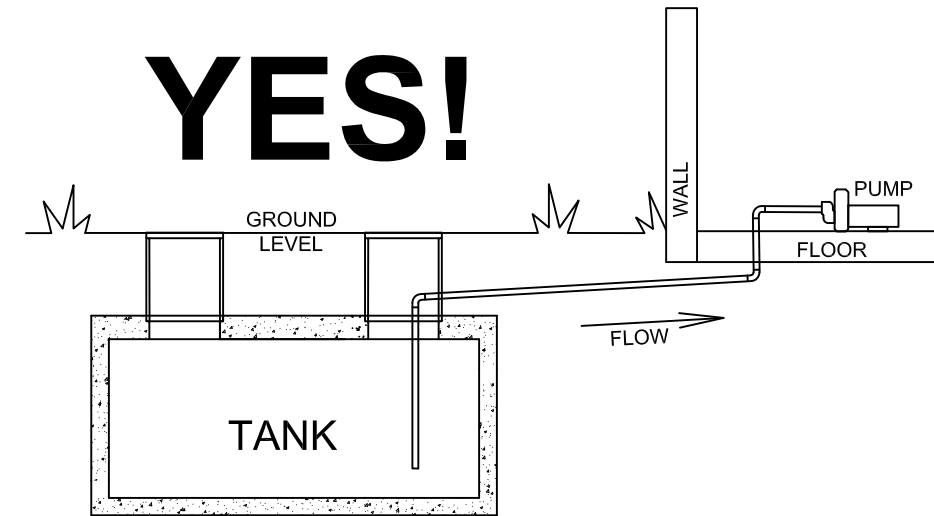
PRESSURE TESTING PUMP SUCTION LINES



STANDARD VRC70 RECLAIM SYSTEM STUB-UP DETAIL by G.C.



YES!



BELOW GROUND TANKS

ALL suction lines require a continuous upward slope to the Equipment Room.

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RECLAIM SYSTEM; GC

Scale:

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Location:

FL

Project Number: 220985-E12

Project Name: K2 - CANDACE

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4.4

CRTD DATE: 12.07.22

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REV DATE:

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SOLENOID VOLTAGE = 24V

480V		EQUIPMENT LIST							RESPONSIBILITY MATRIX										
ITEM #	DESCRIPTION	QTY	ELECTRICAL				CITY	WATER HOT RECLAIM	AIR	PLUMBING AND MECHANICAL WORK				ELECTRICAL WORK			REMARKS		
			VOLT	HP	PHASE	AMP				C.B.	M.S.	FURN. BY:	ERECTED BY:	EQ. RM.	PIPING:	TUNNEL. PIPING:		FURN. BY:	ERECTED BY:
CWC-SYS	CARWASH CONTROL SYSTEMS		120V		1P		20					SONNYS	GC	GC	GC	SONNYS	GC	GC	
1-2	RECLAIM PUMP STATION 70-GPM		480V	5HP	3P	7.6A	15		1-1/2"	2"	1/2"	SONNYS	SCWI	GC	GC	SONNYS	SCWI	GC	1/2" AIR FOR PURGE
1-D	(R.O.) FILTRATION SYSTEM		480V	3HP	3P	4.8A	15		1-1/2"			SONNYS	SCWI	GC	N/A	SONNYS	SCWI	GC	
1-E	(R.O.) REPRESSURIZER		480V	2HP	3P	3.4A	15		1-1/2"			SONNYS	SCWI	GC	SCWI	SONNYS	SCWI	GC	
1-F	(R.O.) H2O STORAGE TANK	2										SONNYS	SCWI	GC	GC	SONNYS	SCWI	SCWI	
1-H	WATER REPRESSURIZATION PUMP		480V	5HP	3P	7.6A	15		2"			SONNYS	SCWI	GC	SCWI	SONNYS	SCWI	GC	
1-K	R.T.S. (3-TANK VELOCITY-SONNYS)											GC	GC	GC	GC	GC	GC	GC	
1-P	WATER SOFTENER SYSTEM		120V		1P	4.0A	20		2"		1/2"	SONNYS	SCWI	GC	GC	SONNYS	SCWI	GC	
1-W	(RO. REJECT) H2O STORAGE TANK	2							1"			SONNYS	SCWI	GC	GC	SONNYS	SCWI	SCWI	
2-A	PREP. GUN PUMP		480V	5HP	3P	7.6A	15	0	3/4"			SONNYS	SCWI	GC	GC	SONNYS	SCWI	GC	
2-B	PREP. GUN STATION								1/2"			SONNYS	SCWI	GC	GC	SONNYS	SCWI	N/A	SCH-80 GALVANIZED PIPE
5-4	FOAMING APPLICATOR-APAP3 (ARCH)											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
5-8	UNDER CARRIAGE											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
5-C	APPLICATOR #1 TOP SOLENOID		24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
5-D	APPLICATOR #1 SIDE SOLENOID		24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
5-M	UNDER CARRIAGE SOLENOID		24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
6-7	FUSION BATH (Foaminator II)											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
6-G	FUSION BATH SOLENOID	3	24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
7-4	CTA Mr.FOAMER	3										SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
7-C	CTA SOLENOID	3	24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
8-7	FUSION PRIME											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
8-8	TOTAL SCENT APPLICATOR											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
8-G	Fusion PRIME SOLENOID		24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
8-i	SCENT SOLENOID		24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
10-6	WRAP FOAMER TUBE											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
10-7	WRAP FOAMER TUBE											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
10-12	WRAP ENT. DOUBLE JOG ELECTRIC											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
10-13	WRAP EXIT DOUBLE JOG ELECTRIC											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
10-A	AIR COMPRESSOR	2	480V	10HP	3P	14A	25				1"	SONNYS	SCWI	GC	N/A	SONNYS	SCWI	GC	(SEE MANUFACTURER MANUAL)
10-B	WRAP MOTOR (DS)		480V	1HP	3P	1.65A	15	00				SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
10-C	WRAP MOTOR (PS)		480V	1HP	3P	1.65A	15	00				SONNYS	SCWI	N/A	N/A	SONNYS	SCWI	GC	
10-E	WRAP RETRACT SOLENOID (D.S.)		24V		1P	.27A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
10-F	WRAP RETRACT SOLENOID (P.S.)		24V		1P	.27A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
10-J	WRAP BRUSH WATER SOLENOID		24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
10-K	WRAP BRUSH WATER SOLENOID		24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
10-L	AIR DRYER 75.CFM		120V	3/4HP	1P	13.8	25				3/4"	SONNYS	SCWI	GC	N/A	SONNYS	SCWI	GC	
10-N	WRAP FOAMER SOLENOID #1		24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
10-P	WRAP FOAMER SOLENOID #2		24V		1P	1.2A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
10-Q	WRAP MOTOR EXIT (DS)		480V	1HP	3P	1.65A	15	00				SONNYS	SCWI	N/A	N/A	SONNYS	SCWI	GC	
10-R	WRAP MOTOR EXIT (PS)		480V	1HP	3P	1.65A	15	00				SONNYS	SCWI	N/A	N/A	SONNYS	SCWI	GC	
10-S	WRAP RETRACT SOLENOID (D.S.)		24V		1P	.27A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
10-T	WRAP RETRACT SOLENOID (P.S.)		24V		1P	.27A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
11-13	TIRE SEAL-9' DRIVE-THROUGH											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
11-D	TIRE SEAL RETRACT SOLENOID		24V		1P	.27A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
11-F	TIRE SEAL SOLENOID		24V		1P	.27A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
11-G	TIRE LINK CONTROL PANEL										1/2"	SONNYS	SCWI	GC	SCWI	SONNYS	SCWI	SCWI	
12-9	WHEEL BLASTER SPINNER (SP100)	2										SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
12-25	SIDE BLASTER											SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	N/A	
12-C	WHEEL CLEANERS FLIP SOLENOID	3	24V		1P	.27A						SONNYS	SCWI	N/A	SCWI	SONNYS	SCWI	GC	
12-i	SIDE MOTOR (DS)	2	480V	1HP	3P	1.65A	15	00				SONNYS	SCWI	N/A	N/A	SONNYS	SCWI	GC	
12-J	SIDE MOTOR (PS)	2	480V	1HP	3P	1.65A	15	00				SONNYS	SCWI	N/A	N/A	SONNYS	SCWI	GC	
13-AA	H-25 STAND (SINGLE UNIT)		24V		1P				1"	1-1/2"		SONNYS	SCWI	GC	SCWI	SONNYS	SCWI	GC	
13-BB	H-25 STAND (DOUBLE UNIT)		24V		1P				1"	1-1/2"		SONNYS	SCWI	GC	SCWI	SONNYS	SCWI	GC	
13-L	H-25 WHEEL CLEANERS PUMP	3	480V	15HP	3P	21A	40	2		1-1/2"		SONNYS	SCWI	SCWI	SCWI	SONNYS	SCWI	GC	
13-P	DIRECT FEED CONTROL SOLENOID	3	24V		1P	.60A						SONNYS	SCWI	GC	SCWI	SONNYS	SCWI	GC	

GC= GENERAL CONTRACTOR
 SCWI = SONNYS (CARWASH INSTALLER)
 * SOFT WATER LINE
 ** R.O. WATER LINE
 *** REJECT WATER LINE

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EQUIPMENT LIST-1

Scale:
 N.T.S.

CRTD DATE:	12.07.22
CRTD BY:	LV
REV DATE:	03.10.23
DWN BY:	JCH
CHKD BY:	

<http://www.SonnysDirect.com>

Location: FL

Project Number: 220985-E12

Project Name: K2 - CANDACE

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Sheet 5.1

SOLENOID VOLTAGE = 24V

480V		EQUIPMENT LIST										RESPONSIBILITY MATRIX								
ITEM #	DESCRIPTION	QTY	ELECTRICAL					CITY	WATER	HOT	RECLAIM	AIR	PLUMBING AND MECHANICAL WORK				ELECTRICAL WORK			REMARKS
			VOLT	HP	PHASE	AMP	C.B.						M.S.	FURN. BY:	ERECTED BY:	EQ. RM.	PIPING:	TUNNEL. PIPING:	FURN. BY:	
14-16	3 COLOR FOAMER (MR. FOAMER)											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
14-17	FUSION SEAL (MR. FOAMER)											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
14-18	FUSION WAX (MR. FOAMER)											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
14-F	COLOR FOAMER SOLENOID #1		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
14-G	COLOR FOAMER SOLENOID #2		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
14-H	COLOR FOAMER SOLENOID #3		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
14-J	FUSION SEAL SOLENOID	2	24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
14-L	FUSION WAX SOLENOID	3	24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
15-3	SIDE BRUSH BM-21"											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
15-E	COMBINATION POWER PACK		480V	7.5HP	3P	11A	20	1				SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
15-J	SIDE BRUSH- REC. SOLENOID		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
15-L	SIDE BRUSH RETRACT SOLENOID	2	24V		1P	.27A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
16-0	ALUMINUM ARCH											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
16-4	FINISHING ARCH-4' (ARCADE SYSTEM)											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
16-5	MIRROR RINSE 0 DEGREE N. (MIRRNS)											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
16-8	RAIN-X											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
16-12	FUSION RINSE (Foaminator II)											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
16-13	GRAPHENE APPLICATOR											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
16-B	DRYING AGENT/RINSE WAX SOLENOID		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
16-E	GRAPHENE SOLENOID		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
16-I	MIRROR RINSE SOLENOID		24V		1P	1.2A				** 3/4"		SONNYS	SCW	GC	SCW	SONNYS	SCW	GC		
16-M	RAIN-X SOLENOID		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
16-R	FUSION RINSE SOLENOID		24V		1P	1.2A				1"		SONNYS	SCW	GC	SCW	SONNYS	SCW	GC		
17-3	SPOT FREE ARCH FOR (R.O./D.I.) SYS.											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
17-4	DRYING AGENT/RINSE WAX (ARCH)											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
17-6	MULTIPLE RAIN (ARCH-10')											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
17-11	CERAMIC APPLICATOR-(ARCH)	3										SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
17-13	FUSION RAIN REPEL (MR. FOAMER)											SONNYS	SCW	N/A	SCW	SONNYS	SCW	N/A		
17-E	FUSION RAIN REPEL SOLENOID		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
17-H	SPOT FREE SOLENOID		24V		1P	1.2A				** 3/4"		SONNYS	SCW	GC	SCW	SONNYS	SCW	GC		
17-L	CERAMIC SOLENOID	3	24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
18-12	CONVEYOR BELT PIT											GC	GC	GC	GC	N/A	N/A	N/A		
18-14	TURF CURB											SONNYS	SCW	N/A	N/A	N/A	N/A	N/A		
18-G	CONVEYOR MOTOR		480V	15HP	3P	21A	40	2				SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
19-0	ENTRANCE EYE CONTROL STATION	2	24V		1P	.67A						SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC		
20-0	DIGITAL QUEUE		120V		1P		10					SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
20-1	TUNNEL CONTROLLER		24V		1P	.67A						SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC		
20-B	PROGRAMMER PUSH BUTTON STATION		120V		1P		20					SONNYS				SONNYS		GC		
20-D	POS GATE	2	120V		1P		20					SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC		
20-E	PAY STATION-CPS	2	120V		1P		20					SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC		
20-J	LICENSE PLATE RECOGNITION POLE											SONNYS	GC	N/A	N/A	SONNYS	GC	GC		
21-2	M.C.C. & TUNNEL CONTROLER		480V		3P	TBD						SONNYS	GC	N/A	N/A	SONNYS	GC	GC	(VERIFY TCL)	
21-C	ANTI COLLISION CONTROL BOX		24V		1P	.67A						SONNYS	GC	N/A	N/A	SONNYS	GC	GC		
22-A	ELECTRICAL EYE SENSORS	2										SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC		
22-C	STOP / START STATIONS		24V		1P							GC	GC	N/A	N/A	GC	GC	GC	MOMENTARY START	
22-D	ANTI COLLISION PAD		24V		1P							SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC		
22-E	WARNING HORN		24V		1P							GC	GC	N/A	N/A	GC	GC	GC		
23-4	MITTER/MOTOR SFM901 (FB)		480V	2HP	3P	3.4A	15	00				SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
23-C	MITTER WATER SOLENOID F_B		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
24-7	MITTER/MOTOR SFM807 (SS)		480V	2HP	3P	3.4A	15	00				SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
24-B	MITTER S_S WATER SOLENOID		24V		1P	1.2A						SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC		
25-0	BLOWER ARCH SPACER	8										SONNYS	SCW	N/A	N/A	SONNYS	SCW	N/A		
25-11	BLOWER ARCH 166"	5										SONNYS	SCW	N/A	N/A	SONNYS	SCW	N/A		
25-B	BLOWER MOTOR (15HP)	15	480V	15HP	3P	21A	40	2				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC		

GC= GENERAL CONTRACTOR
 SCW = SONNYS (CARWASH INSTALLER)
 * SOFT WATER LINE
 ** R.O. WATER LINE
 *** REJECT WATER LINE

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EQUIPMENT LIST-2

Scale:

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 DWN BY: JCH
 CHKD BY:

SONNYS
 The CarWash Factory
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Project Number: 220985-E12
 Project Name: K2 - CANDACE
 Location: FL
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 Sheet
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SOLENOID VOLTAGE = 24V

480V		EQUIPMENT LIST										RESPONSIBILITY MATRIX						
ITEM #	DESCRIPTION	QTY	ELECTRICAL				CITY	WATER		AIR	PLUMBING AND MECHANICAL WORK				ELECTRICAL WORK			REMARKS
			VOLT	HP	PHASE	AMP		HOT	RECLAIM		FURN. BY:	ERECTED BY:	EQ. RM.	PIPING:	TUNNEL. PIPING:	FURN. BY:	ERECTED BY:	
26-1	STARGATE/ VENTURY	15									SONNYS	SCW	N/A	N/A	SONNYS	SCW	N/A	
26-2	BLOWER, MAMMOTH DRYER	2									SONNYS	SCW	N/A	N/A	SONNYS	SCW	N/A	
26-3	BLOWER, MAMMOTH PIVOTING										SONNYS	SCW	N/A	N/A	SONNYS	SCW	N/A	
26-A	BLOWER (FLIP) SOLENOID	2	24V		1P	.27A					SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
26-B	BLOWER (STARGATE) SOLENOID	6	24V		1P	.27A					SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC	
26-E	MAMMOTH PIVOTING SOLENOID		24V		1P	.27A					SONNYS	SCW	N/A	SCW	SONNYS	SCW	GC	
27-0	PULSE SWITCH										SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
27-2	TRUCK BED CONCIERGE		24V		1P						SONNYS	SCW	N/A	N/A	SONNYS	SCW	SCW	
29-3	PIPE LIGHT, LED IP69K (SIGN)		120V		1P	0.57A					SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
29-6	GALAXY ARCH (Mr. Foamer)		120V		1P		20				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
29-8	G&G INFINITY CONTROLLER		277V		1P						SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	SEE PANEL FOR BRAKER SIZE AND QTY.
29-E	TIRE SEAL (SIGN)		120V		1P	2.5A					SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
29-Q	Fusion WAX (SIGN)		120V		1P	2.5A					SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
29-R	Fusion RAIN REPEL (SIGN)		120V		1P	2.5A					SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
29-S	Fusion CERAMIC (SIGN)		120V		1P	2.5A					SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
29-V	ARCADE PANEL (Mr. Foamer)		120V		1P		20				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
30-C	(WAIT & GO) INSTRUCTIONAL SIGN		120V		1P	2.5A	20				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	24X24X24 CONCRETE PAD REQUIRED
30-E	ENTRANCE INSTRUCTIONAL CABINET		120V		1P		20				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
30-F	DIRECTIONAL SIGN	6	120V		1P		20				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
30-G	PKG. RECEIVED SIGN		120V		1P		20				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
30-I	MENU DISPLAY	2	120V		1P		20				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
33-B	GRUNDFOS PUMP_40GPM		480V	7.5HP	3P	11A	20	* 2"			SONNYS	SCW	GC	N/A	SONNYS	SCW	GC	
33-C	HYDRAFLEX PANEL		24V		1P	1.2A		1"	1/2"		SONNYS	SCW	GC	SCW	SONNYS	SCW	SCW	
33-D	GRUNDFOS PUMP_20GPM		480V	5HP	3P	7.6A	15	*** 1-1/2"			SONNYS	SCW	GC	SCW	SONNYS	SCW	GC	
33-F	HYDRAFLEX PANEL		24V		1P	1.2A		1"	1/2"		SONNYS	SCW	GC	SCW	SONNYS	SCW	SCW	
33-G	HYDRAFLEX PANEL		24V		1P	1.2A		1"	1/2"		SONNYS	SCW	GC	SCW	SONNYS	SCW	SCW	
37-G	JET PAC VACUUM	13	120V		1P	-	20				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
38-1	WET-DRY MAT. MACHINE	2	120V		1P		30	1"			SONNYS	SCW	GC	N/A	SONNYS	SCW	GC	STOP/START STATION BY OTHERS
40-G	MONSTER ARCH (Mr. Foamer)		120V		1P		20				SONNYS	SCW	N/A	N/A	SONNYS	SCW	GC	
41-B	AIR LINK PANEL	4							1"		SONNYS	SCW	GC	SCW	SONNYS	SCW	SCW	
41-C	WATER LINK PANEL (CITY WATER)							1"	1/2"		SONNYS	SCW	GC	SCW	SONNYS	SCW	SCW	
41-E	WATER LINK PANEL (RECLAIM)							1"	1/2"		SONNYS	SCW	GC	SCW	SONNYS	SCW	SCW	

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CRTD BY:	LV
REV DATE:	03.10.23
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Project Name:	K2 - CANDACE
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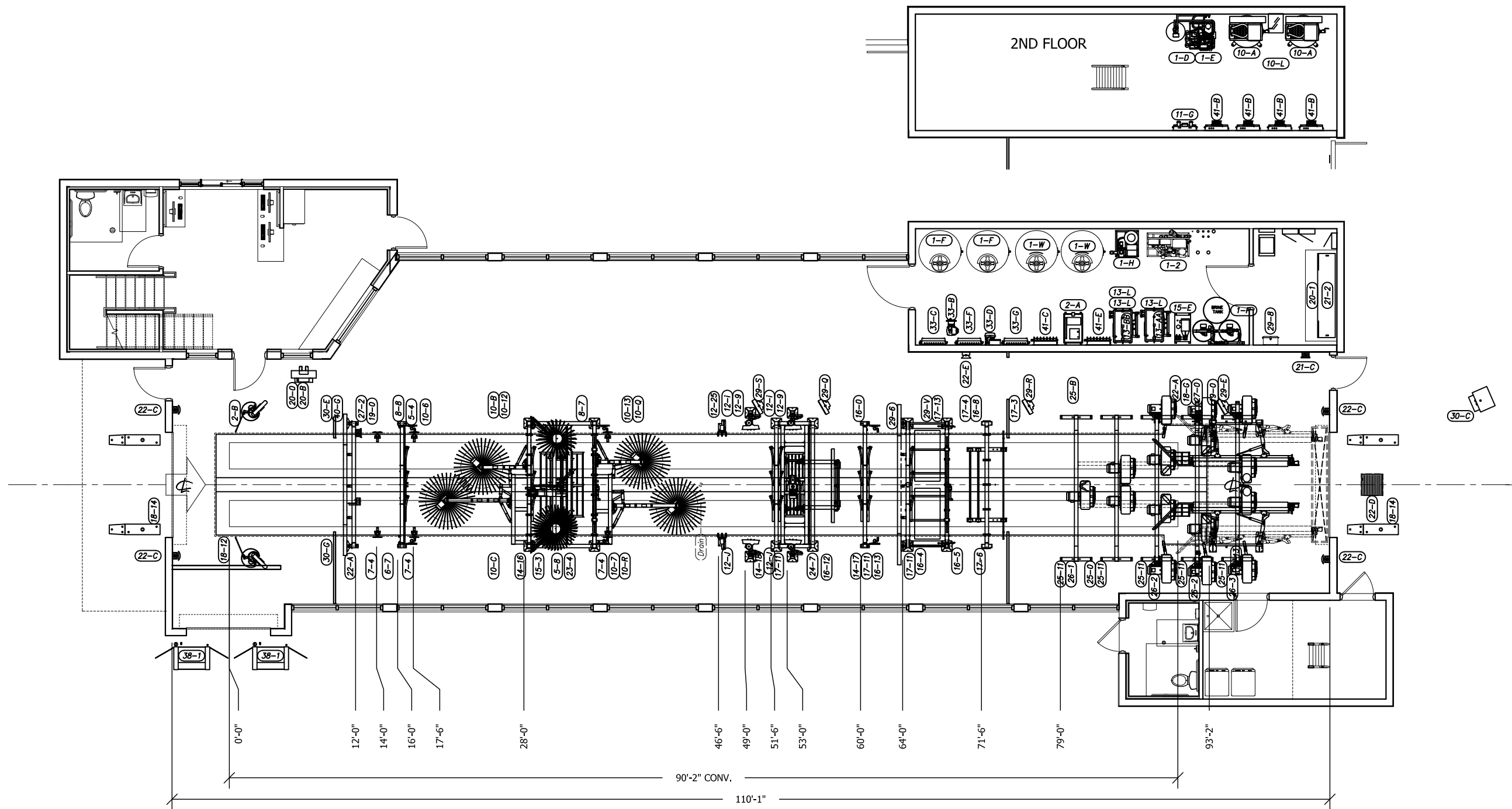
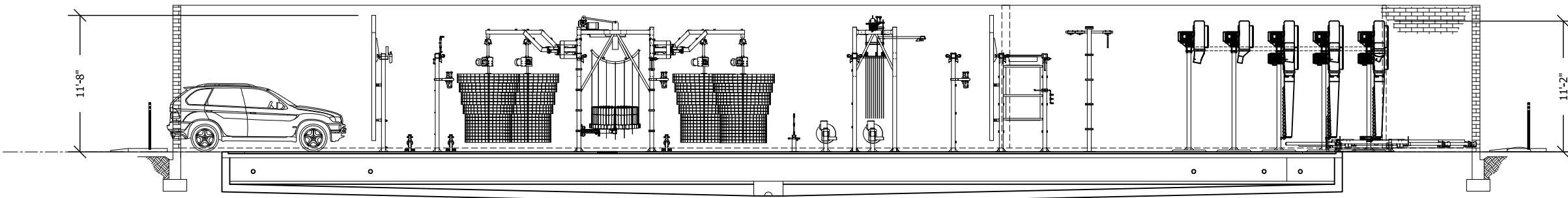
GC= GENERAL CONTRACTOR
 SCW = SONNYS (CARWASH INSTALLER)
 * SOFT WATER LINE
 ** R.O. WATER LINE
 *** REJECT WATER LINE

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EQUIPMENT LIST-3

Scale:
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EQUIPMENT LAYOUT

Scale:
 3/32" = 1'

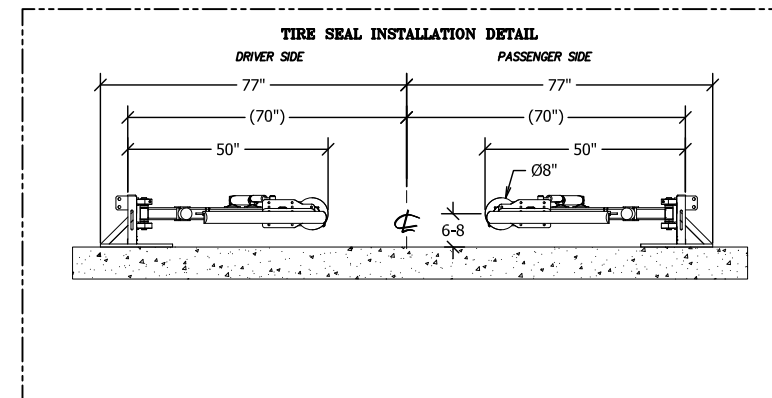
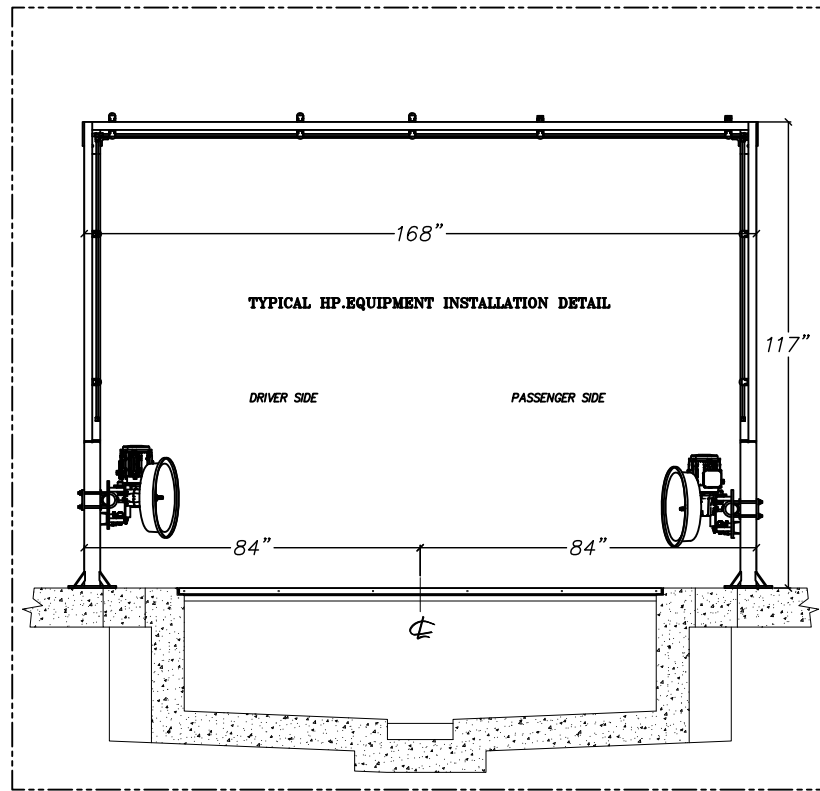
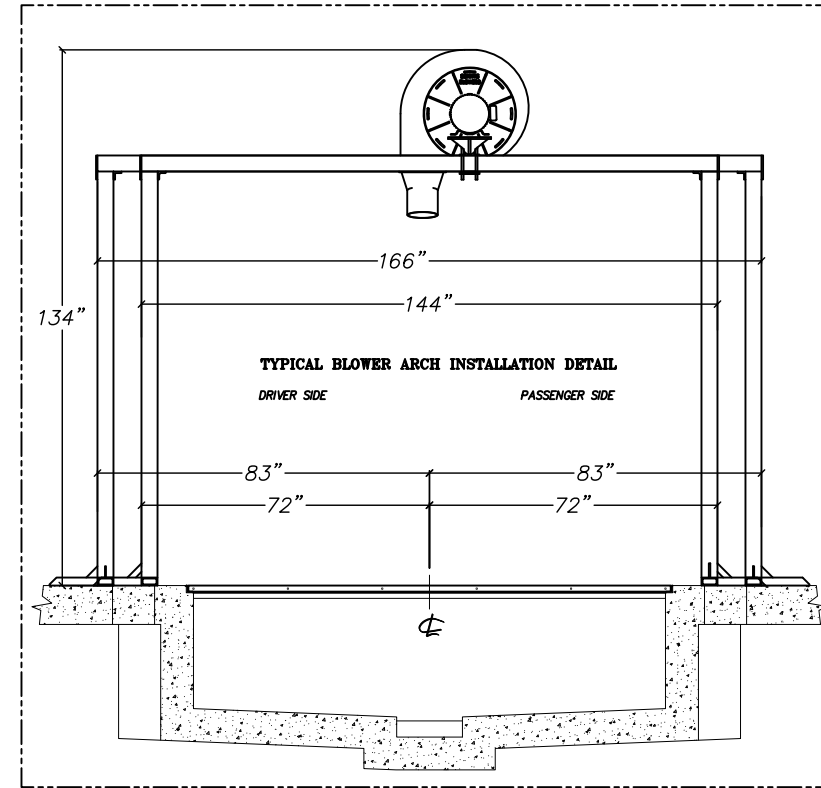
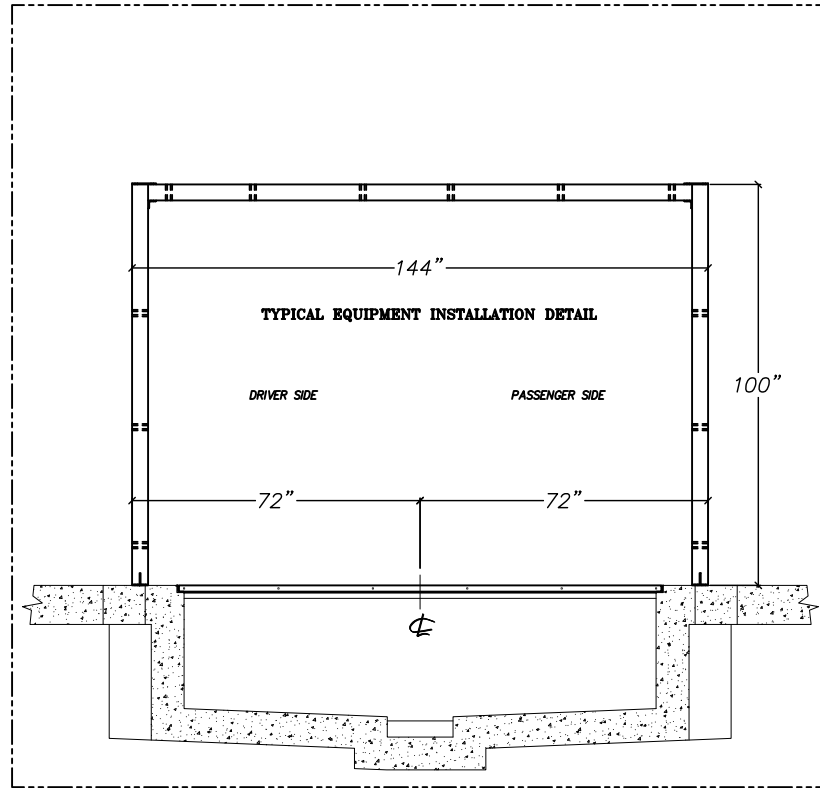
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TUNNEL EQUIPMENT INSTALLATION

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Location:

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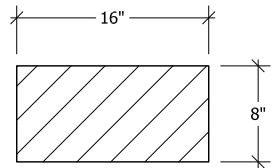
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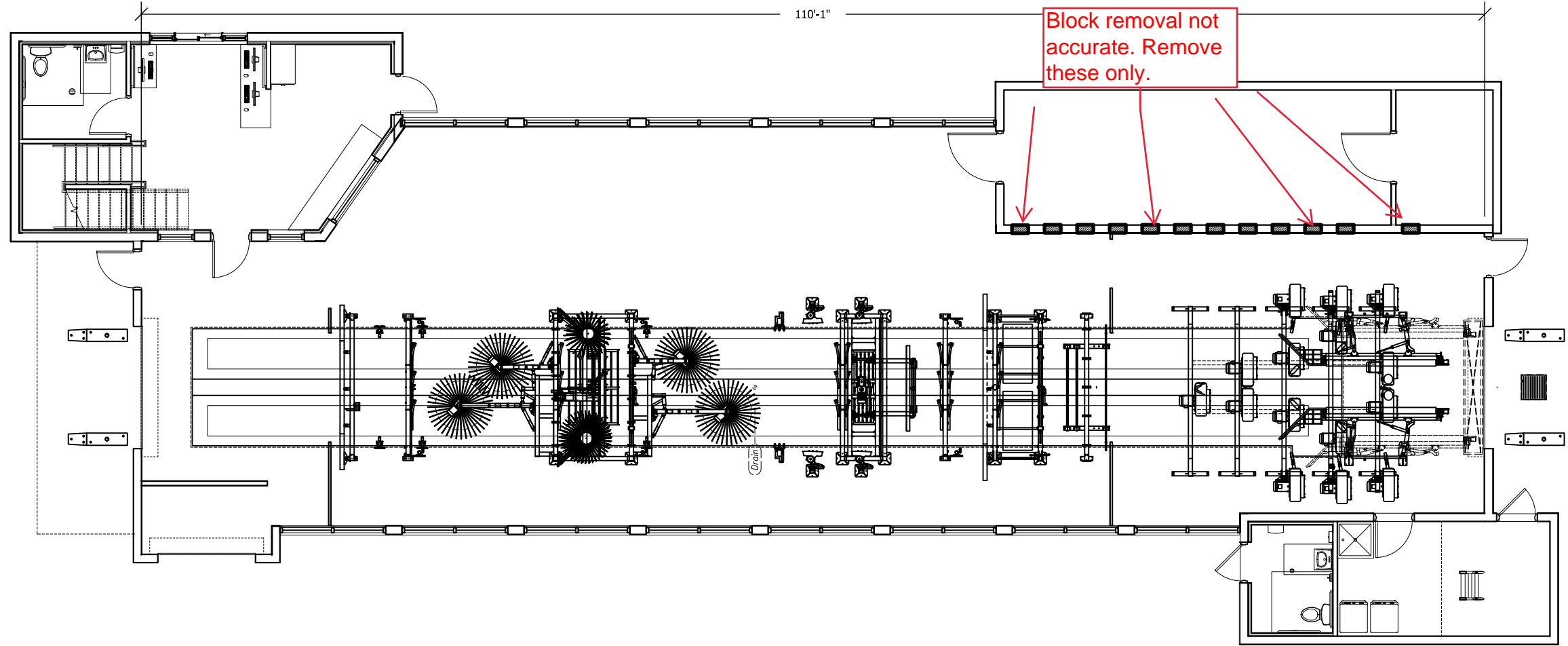
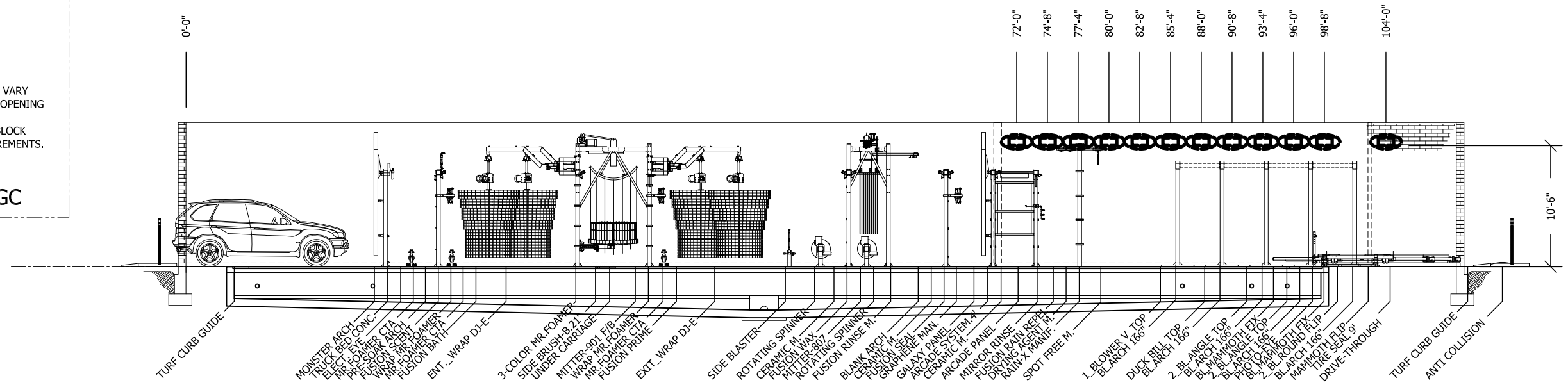
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NOTES:
 - 16" STANDARD RECOMMENDED WIDTH. MAY VARY BASED ON OWNER PREFERENCES. CONFIRM OPENING SIZE WITH OWNER.
 - COORDINATE EXACT LOCATIONS/SIZES OF BLOCK OPENINGS WITH BLDG STRUCTURAL REQUIREMENTS.

BLOCK OPENINGS

BLOCK OPENINGS BY GC



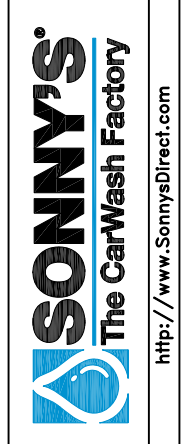
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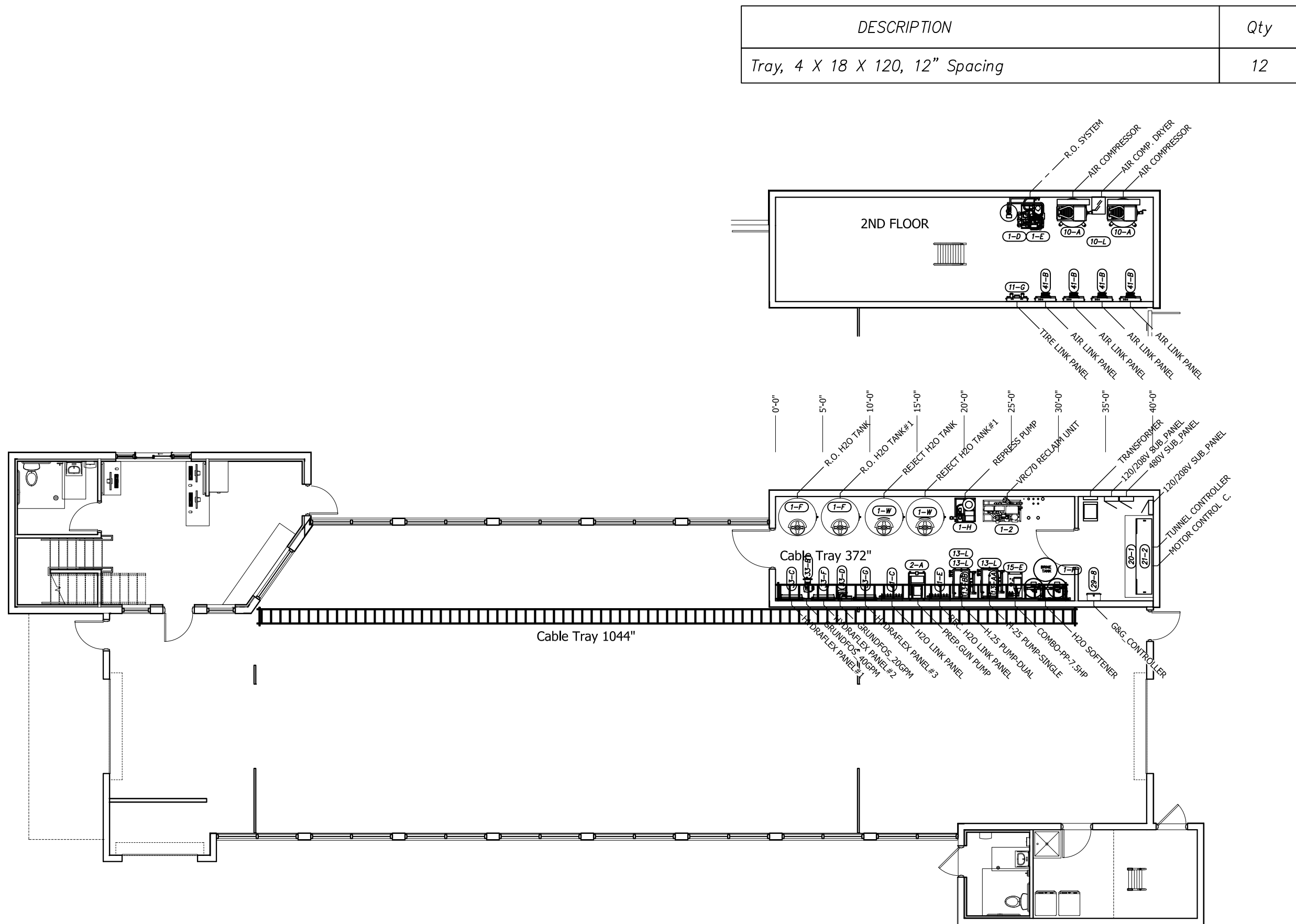
CORED HOLES LAYOUT; GC

Scale:
 3/32"=1'

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DESCRIPTION	Qty
Tray, 4 X 18 X 120, 12" Spacing	12

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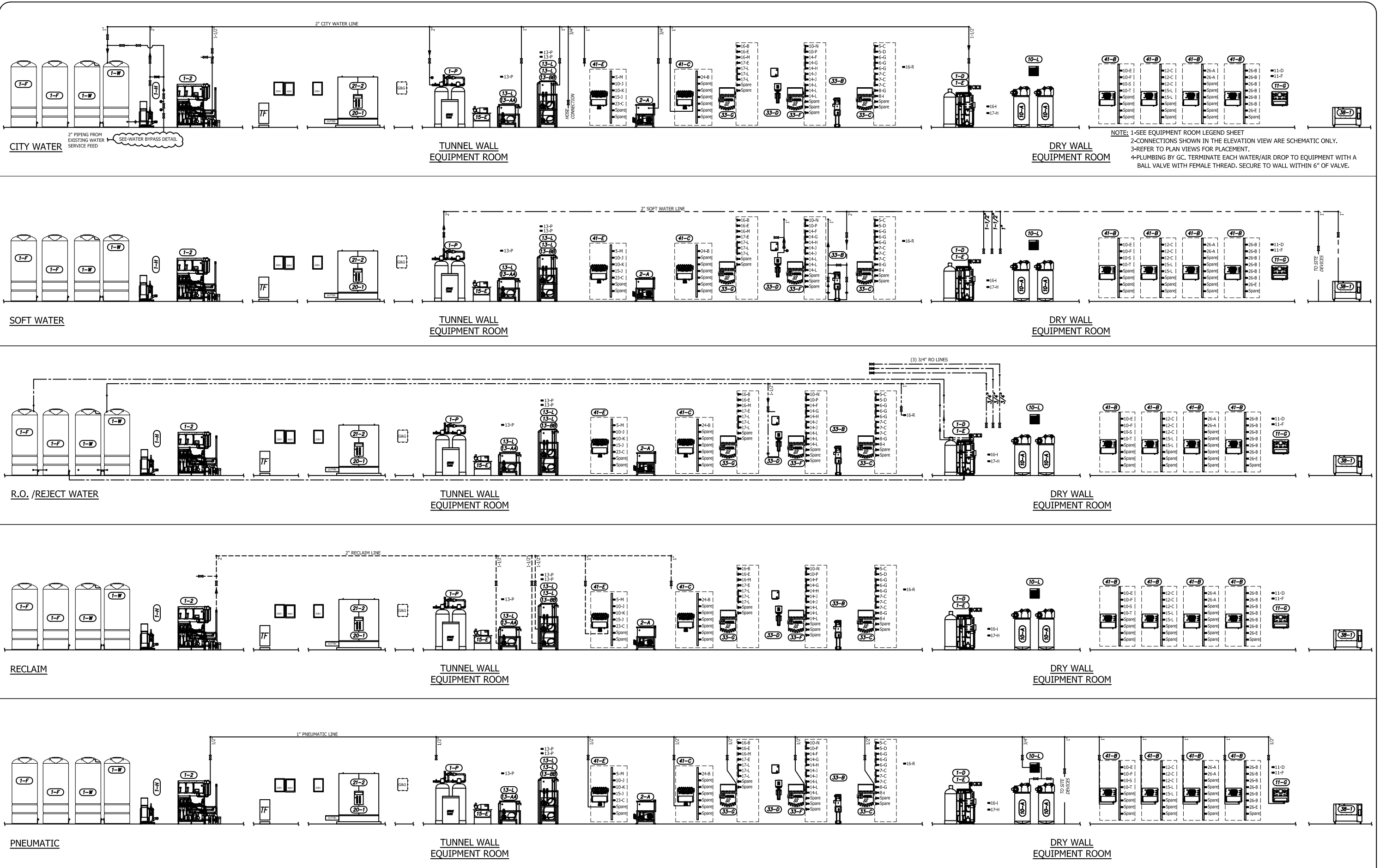
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EQ. SUPPORT DESCRIPTION

Scale:
3/32"=1'



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PLUMBING; GC

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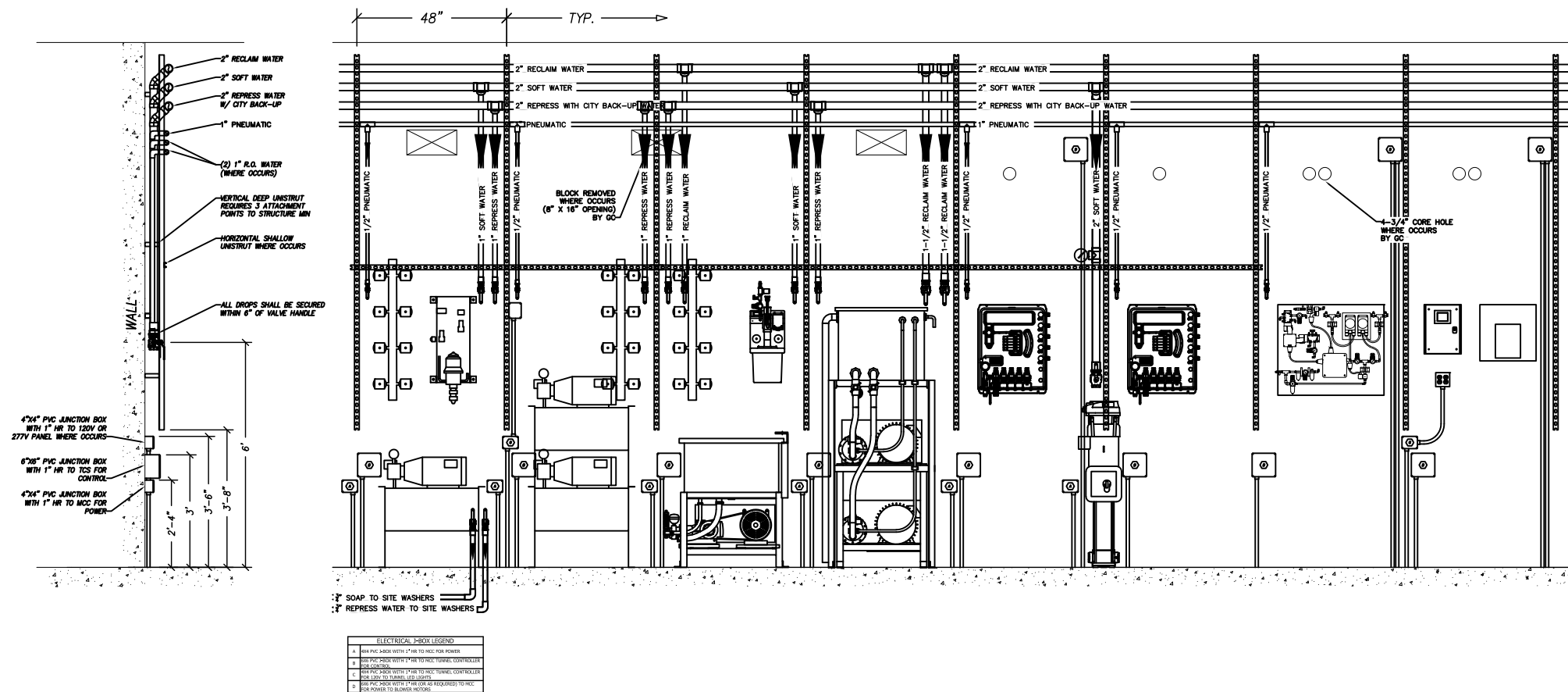
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Project Number:	220985-E12
Project Name:	K2 - CANDACE
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ELECTRICAL WORK LEGEND	
A	4\"/>
B	2\"/>
C	4\"/>
D	2\"/>

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EQUIPMENT ROOM LEGEND

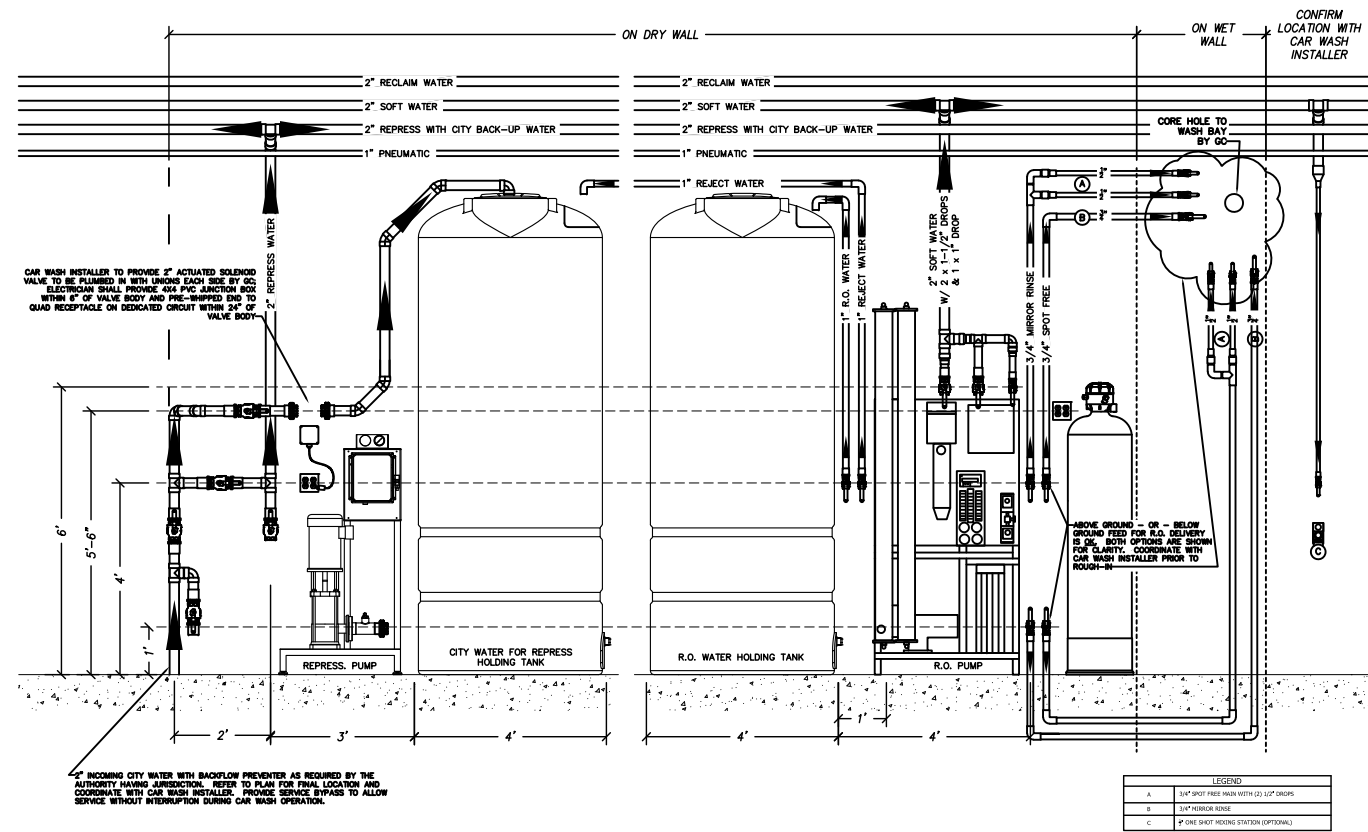
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DWN BY:	JCH
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SONNYY'S
 The CarWash Factory
<http://www.SonnysDirect.com>

Location: FL

Project Number: 220985-E12
 Project Name: K2 - CANDACE
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CAR WASH INSTALLER TO PROVIDE 1/2" ACTIVATED SOLENOID VALVE TO BE PLUMBED IN WITH LEAKS EACH SIDE BY GC. ELECTRICIAN SHALL PROVIDE 400 PWS JUNCTION BOX WITHIN 6" OF VALVE BODY AND PWS-TAPPED END TO QUAD RECEPTACLE ON DEDICATED CIRCUIT WITHIN 24" OF VALVE BODY.

1/2" INCOMING CITY WATER WITH BACKFLOW PREVENTER AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. REFER TO PLAN FOR FINAL LOCATION AND COORDINATE WITH CAR WASH INSTALLER. PROVIDE SERVICE BYPASS TO ALLOW SERVICE WITHOUT INTERFERENCE DURING CAR WASH OPERATION.

LEGEND	
A	3/4" SPOT FREE PWS WITH (2) 1/2" DROPS
B	3/4" PWS ONLY
C	1/2" PWS ONLY (OPTIONAL)

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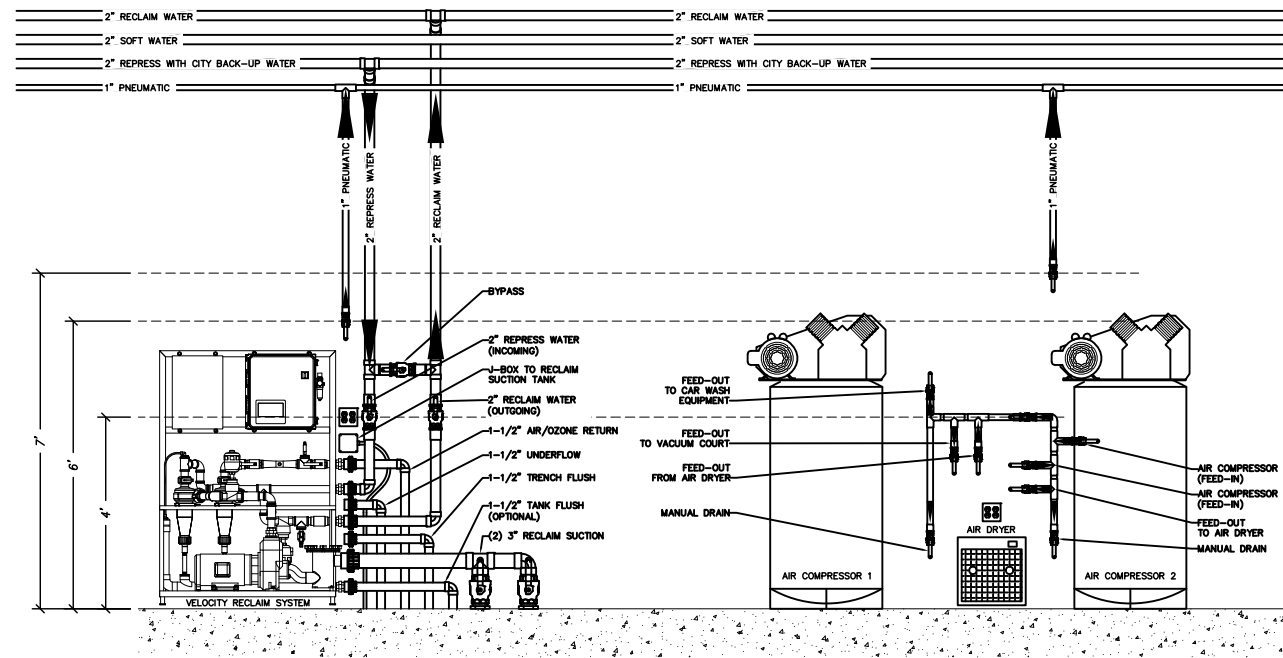
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EQUIPMENT ROOM LEGEND

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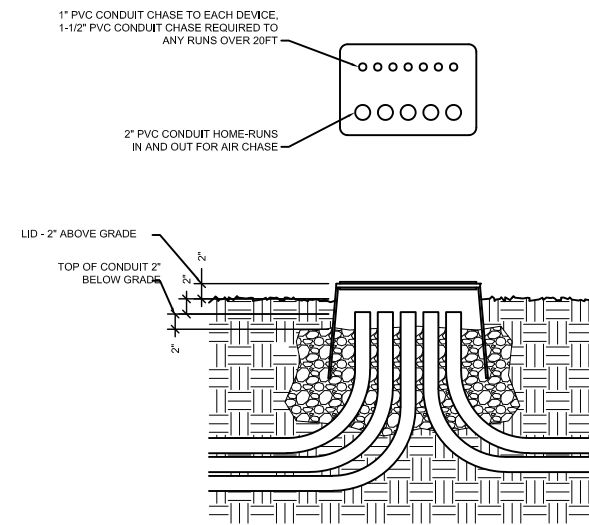
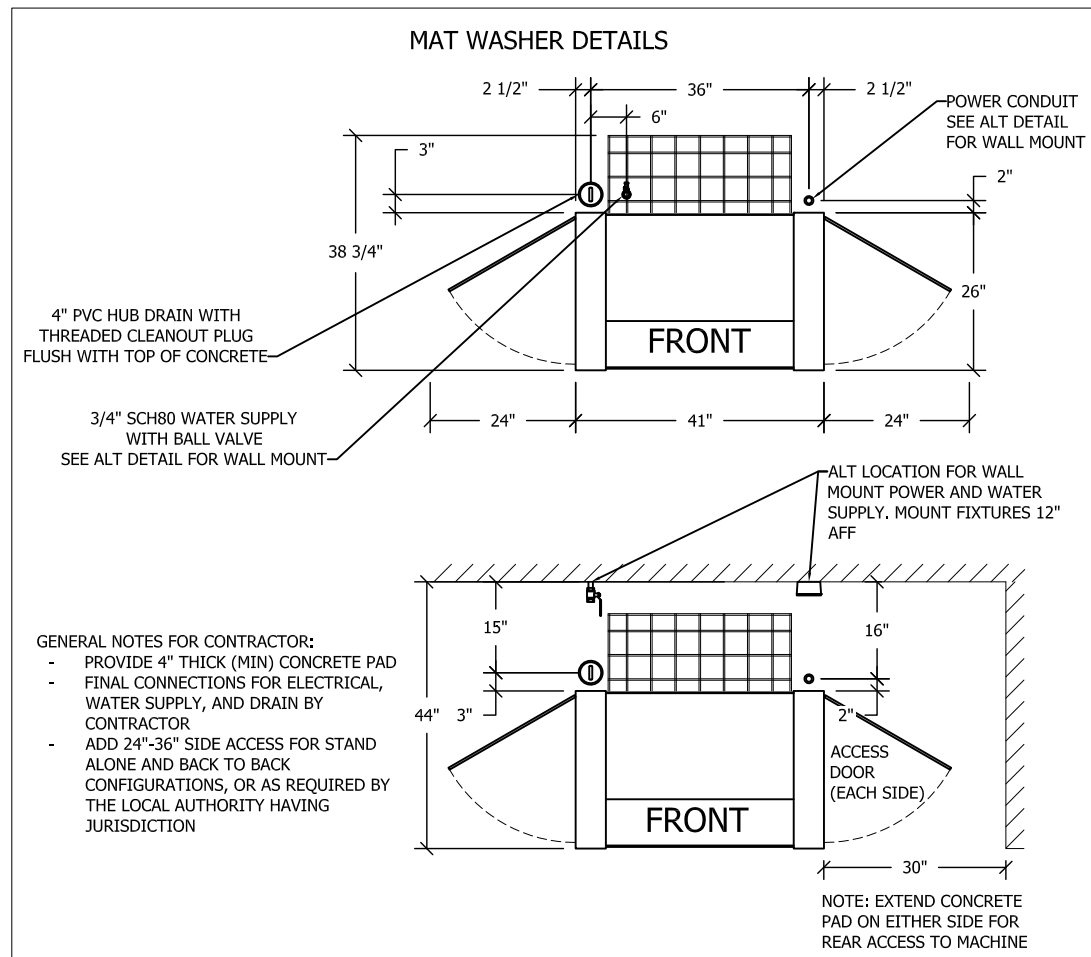
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- INSTALL NOTES:**
1. PROVIDE 12" x 18" MIN ENCLOSURE
 2. PROVIDE LAYOUT CONFIGURATION OF PIPING IN HAND-HOLE AS IDENTIFIED ON DETAILS ABOVE. DEVIATIONS FROM THE LAYOUT SHALL BE SUBMITTED IN WRITING TO THE CAR WASH INSTALLER FOR APPROVAL.
 3. PROVIDE PULL STRINGS WITH LABELS, INDICATING FED FROM, OR FED TO LOCATIONS FOR FUTURE USE
 4. PROVIDE BUSHINGS, OR MALE ADAPTORS WITH PLASTIC LOCK NUTS TO PREVENT CHAFFING OF LINES
 5. PROVIDE 6" BED OF PEA GRAVEL FOR ENCLOSURE TO SIT ON, AND FILL TO 2" BELOW TOP OF PIPE

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VACUUM AREA LEGEND

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REV DATE: 03.10.23

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CHKD BY:

GC = GENERAL CONTRACTOR
 SCWI = SONNY'S CARWASH INSTALLER

PLUMBING & MECHANICAL SPECIFICATIONS GENERAL CONTRACTOR

- DESCRIPTION**
 THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO OBTAIN COMPLETE SYSTEMS TESTED, ADJUSTED, AND READY FOR OPERATION.
- GENERAL PROVISIONS**
1. **SCOPE OF WORK:** THE WORK SHALL CONSIST OF FURNISHING LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE THE COMPLETE INTEGRATED AND PROPER FUNCTIONING SYSTEMS AS SHOWN ON THE DRAWINGS. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, INSTALLING, AND TERMINATING PER THESE DRAWINGS AND SONNY'S INSTALLATION MANUALS.
 2. **COORDINATION:** CHECK, VERIFY, AND COORDINATE THE INSTALLATION WITH THE WORK OF OTHER TRADES. INCLUDE MODIFICATIONS, RELOCATIONS, OR ADJUSTMENTS NECESSARY TO COMPLETE WORK OR TO AVOID INTERFERENCES.
 3. **FIELD VERIFICATION:** THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF PLUMBING SYSTEMS. FIELD VERIFICATION OF DIMENSIONS IS DIRECTED.
 4. **PERMITS AND INSPECTIONS:** SECURE PERMITS AND INSPECTIONS AS REQUIRED BY STATE AND LOCAL LAWS AND ORDINANCES. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER CERTIFICATES OF FINAL INSPECTIONS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
 5. **GUARANTEE:** GUARANTEE FOR ONE (1) YEAR AFTER FINAL OWNER ACCEPTANCE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP. REPAIR, REPLACE, OR ALTER SYSTEMS FOUND DEFECTIVE. RESTORE WORK DISTURBED WHICH IS GUARANTEED UNDER CONTRACT.
 6. **UTILITY SERVICE:** DETERMINE UTILITY REQUIREMENTS, INCLUDING TEMPORARY, AND INCLUDE ALL COSTS.
 7. **RECORD DRAWINGS:** MAINTAIN AND PROVIDE, ON REQUEST, COMPLETE UP-TO-DATE RECORD DRAWINGS.
 8. **SHOP DRAWINGS:** SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND SYSTEMS.
 9. **CUTTING AND PATCHING:** ALL CUTTING AND PATCHING IS BY THIS CONTRACTOR INCLUDING NECESSARY MATERIALS REQUIRED, UNLESS OTHERWISE NOTED.
 10. **HOUSEKEEPING AND CLEANUP:** PERIODICALLY REMOVE WASTE MATERIALS AND LEAVE AREAS OF WORK ROOM CLEAN.
 11. **EQUIPMENT ACCESS:** INSTALL ALL WORK TO PERMIT ACCESS TO EQUIPMENT FOR MAINTENANCE.

- PLUMBING SYSTEMS**
1. **PROHIBITED LOCATIONS:** WATER CARRYING PIPE SHALL NOT BE INSTALLED OVER SWITCH GEAR OR ELECTRICAL EQUIPMENT.
 2. **PROTECTIVE CHASES:** PIPES AND FITTINGS ABOVE AND BELOW GRADE SHALL BE SCHEDULE-40 PVC DWV CONFORMING TO ASTM D2665-82.
 3. **WATER DISTRIBUTION:**
 - A. **PIPE AND FITTINGS**
 COPPER TUBE, TYPE-K, BELOW GROUND. TYPE-L, ABOVE GROUND, WROUGHT COPPER OR BRONZE SWEAT FITTINGS WITH LEAD FREE SOLDER. COPPER PIPING SHALL NOT COME IN CONTACT WITH CONCRETE. PROVIDE INSULATING MATERIAL BETWEEN THE PIPE AND CONCRETE AT ALL REQUIRED LOCATIONS.
 - B. **VALVES**
 - a. **BALL VALVES TWO INCHES (2") AND SMALLER:** BY MILWAUKEE (OR APPROVED EQUAL) MODEL #BA-150 RATED AT 150 SWP, 600 CWP. BODY OF ASTM B-584 BRONZE WITH CHROME-PLATED ASTM B-16 BRASS BALL WITH GLASS REINFORCED PTFE SEATS AND STERN SEAL. FULL PORT FLOW AND ADJUSTABLE PACKING NUT.
 - b. **GATE VALVES TWO INCHES (2") AND SMALLER:** NRS, MSS SP-80: CLASS 125 (125 SWP/200 CWP). BODY BONNET AND STEM OF ASTM B-62 BRONZE, THREADED ENDS TO ANSI B1.20.1, SOLDER ENDS TO ANSI B16.18, SOLID WEDGE DISC, GLAND PACKED WITH NON-ASBESTOS PACKING AND MALLEABLE IRON HANDWHEEL.
 - c. **GATE VALVES TWO AND ONE-HALF INCHES (2-1/2") AND LARGER:** NRS, MSS SP-70; CLASS 125 (125 SWP/200 CWP). BODY AND BONNET OF ASTM A126 CLASS B CAST IRON, ASTM B-16 BRASS STERN AND ASTM B-62 BRONZE SEAT AND DISC FACE. FLANGED ENDS TO ANSI B16.1. NON-ASBESTOS PACKING.
 - C. **DISSIMILAR METALS:** INSTALL APPROVED DIELECTRIC UNIONS BETWEEN ALL CONNECTIONS OF DISSIMILAR METALS.
 4. **CAR WASH CHASE WAYS, DRAINS, AND SUPPLY LINES:**
 - A. **RECLAMATION DRAINAGE PIPE, SECTION LINES, AND OZONE TREATMENT LINES AND FITTINGS**
 - a. **(IF PERMITTED BY LOCAL OR APPLICABLE CODES)** ALL RECLAIM DRAINAGE LINES, SUCTION LINES, OZONE TREATMENT LINES AND RELATED FITTINGS SHALL BE SCHEDULE-80 POLYVINYL CHLORIDE (PVC) PIPING CONFORMING TO ASTM D-1785-83.
 - b. MECHANICAL ENGINEER TO VERIFY LOCAL OR APPLICABLE CODES AND SPECIFY ALTERNATE MATERIAL IF PVC IS NOT PERMITTED.

5. **PNEUMATIC LINES:**
 - A. **PNEUMATIC SUPPLY LINES**
 - a. ALL PNEUMATIC SUPPLY LINES SHALL BE TYPE-K COPPER TUBE WITH WROUGHT COPPER OR BRONZE SWEAT FITTINGS ABOVE GRADE. NO FITTINGS SHALL BE ALLOWED BELOW GRADE.
 - b. ALL PNEUMATIC SUPPLY LINES BELOW GRADE SHALL BE ENCASED IN SCHEDULE-40 CHASEWAYS.
6. **HYDRAULIC HOSE:**
 - A. **PIPE AND FITTINGS**
 - a. ALL HYDRAULIC HOSE SHALL BE SAE-100R7 BY SYNIFLEX (OR APPROVED EQUAL) WITH 2000 PSI WORKING PRESSURE; 10,000 PSI BURST PRESSURE.
 - b. ALL HYDRAULIC SUPPLY LINES BELOW GRADE SHALL BE ENCASED IN SCHEDULE-40 PVC CHASEWAYS.
7. **PRESSURE TEST:** LEAVE UNCOVERED AND UNCONCEALED ALL WATER DISTRIBUTION PIPING UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE ALL SUCH WORK FOR TESTING THAT HAS BEEN COVERED OR CONCEALED BEFORE IT HAS BEEN TESTED AND APPROVED.

 CAP AND SUBJECT THE PIPING SYSTEM TO A STATIC WATER PRESSURE OF 150 PSIG WITHOUT EXCEEDING THE PRESSURE RATING OF THE PIPING SYSTEM MATERIALS. ISOLATE THE TEST SOURCE AND ALLOW TO STAND FOR A PERIOD OF FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS WHICH MUST BE REPAIRED. REPAIR ALL LEAKS AND DEFECTS USING NEW MATERIAL AND RETEST SYSTEM OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.

 TESTING REQUIREMENTS ARE MINIMUM AND ARE NOT INTENDED TO BE LIMITING WHERE ADDITIONAL TESTING METHODS ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
8. **WATER HEATING**
 - A. **SONNY'S PROVIDED EQUIPMENT:** GENERAL CONTRACTOR SHALL OBTAIN A BILL OF MATERIALS FROM SONNY'S FOR EQUIPMENT BEING SUPPLIED BY SONNY'S.
 - B. **INSTALLATION & CONNECTIONS:** GENERAL CONTRACTOR SHALL INSTALL ALL TUBING, MANIFOLDS, VALVES, VALVES BOXES, HEATERS, BOILERS, STORAGE TANKS, PUMPS, AND RELATED EQUIPMENT FURNISHED BY SONNY'S. GC SHALL PROVIDE AND INSTALL, AS NECESSARY, ALL GAS SUPPLY PIPING AND CONNECTIONS, VENTING, AND ANY INTERCONNECTING PIPING FROM MANIFOLDS, BOXES, PUMP, HEATERS OR RELATED EQUIPMENT WITH SUITABLE SPECIFIED MATERIALS.

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DIVISION OF WORK
PLUMBING

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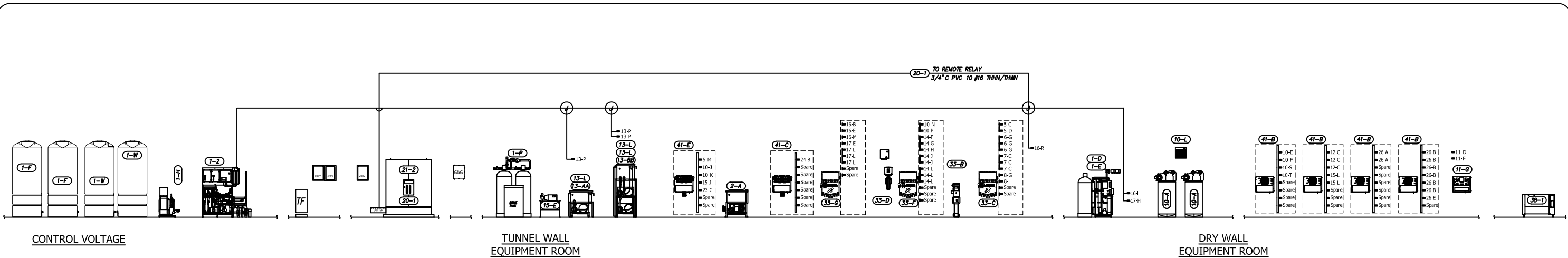
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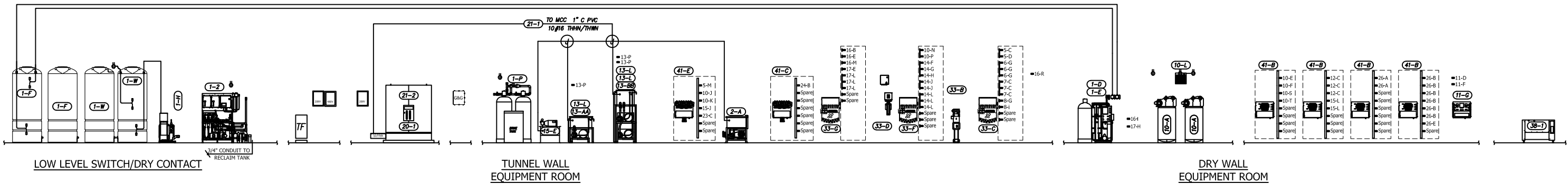
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Sheet	8.6



CONTROL VOLTAGE

TUNNEL WALL
EQUIPMENT ROOM

DRY WALL
EQUIPMENT ROOM



LOW LEVEL SWITCH/DRY CONTACT

TUNNEL WALL
EQUIPMENT ROOM

DRY WALL
EQUIPMENT ROOM

LEGEND:
- JUNCTION BOX (J)

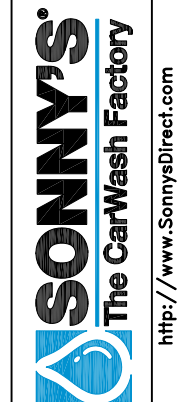
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CONTROL VOLTAGE; GC
ELECTRICAL

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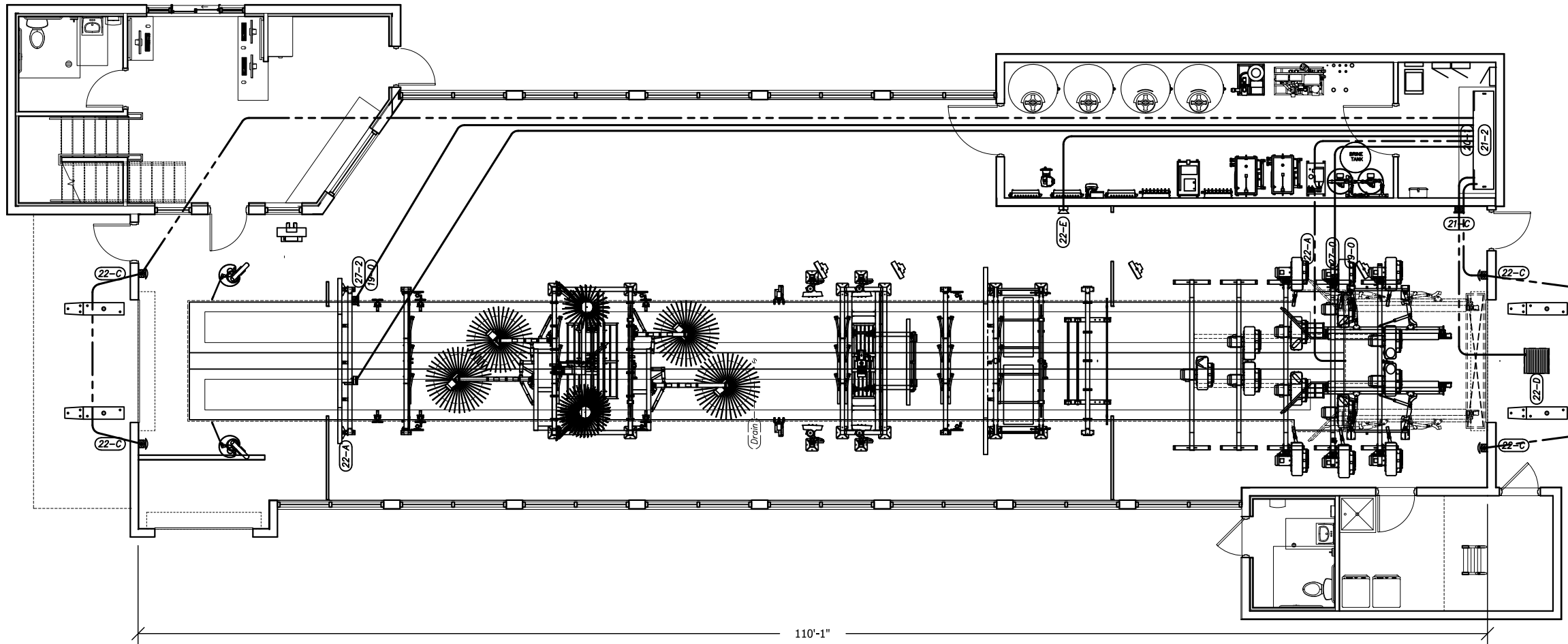


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LEGEND:
 -SURFACE MOUNTED Conduit ———
 -CONCEALED Conduit - - - - -

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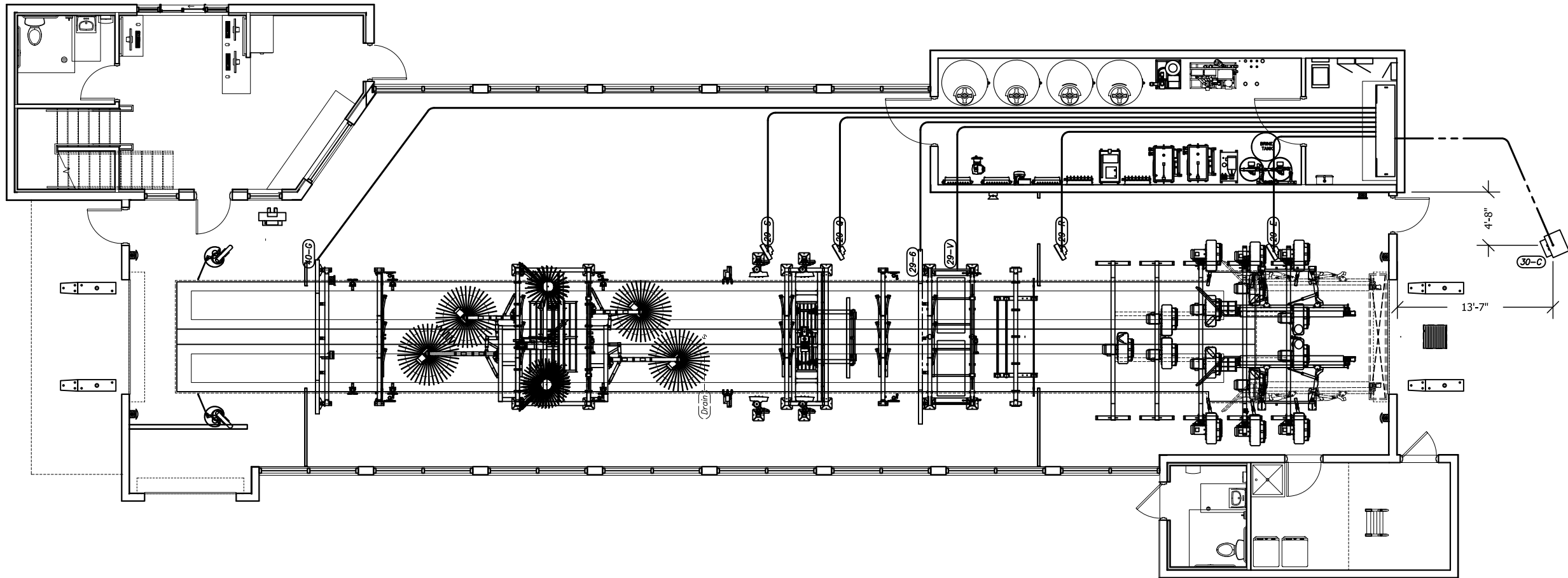
**CONTROL; GC
 ELECTRICAL**

Scale:
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LEGEND:

- SURFACE MOUNTED Conduit ———

- CONCEALED Conduit - - - - -

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**SIGNAGE; GC
 ELECTRICAL**

Scale:
 3/32"=1'

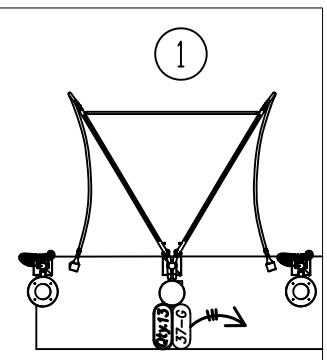
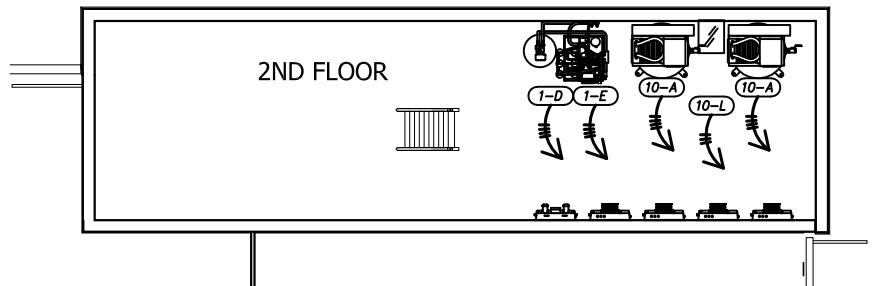
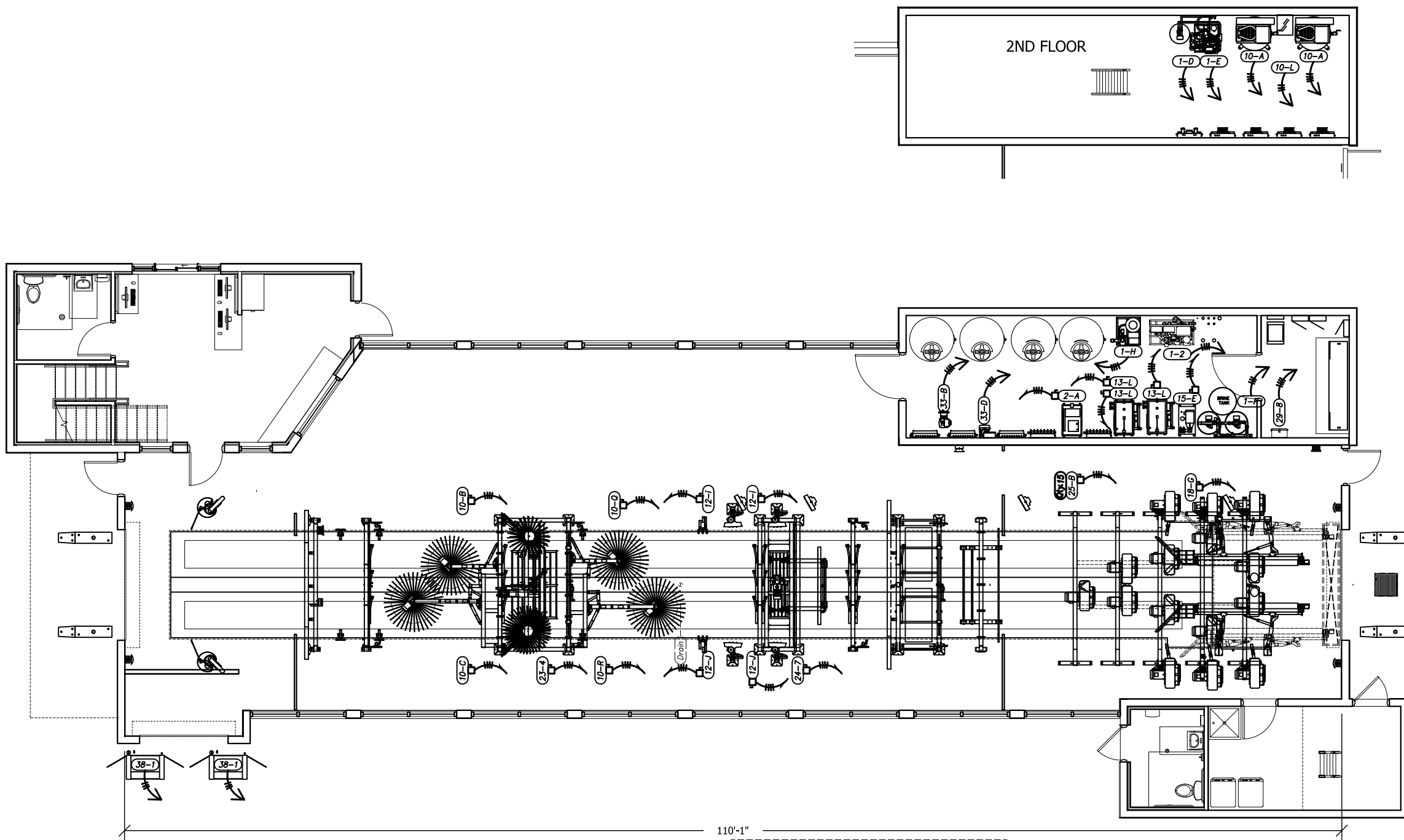
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LEGEND:

- WIRED TO CBP	
- WIRED TO CBP (3P) Disconnect Required	
- WIRED TO CBP (3P)	
- WIRED TO MCC	
- WIRED TO MCC Disconnect Required	

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**MOTOR POWER; GC
 ELECTRICAL**

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Project Number:	220985-E12
Project Name:	K2 - CANDACE
Location:	FL
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480V

MOTOR CONTROL CENTER

480V, 3~ 4W

TOTAL CONNECTED LOAD: 457.8A
BREAKER SIZE TBD MLO (VERIFY T.C.L.)
PANEL RATED AIC TBD
RMS SYMMETRICAL

NOTES:

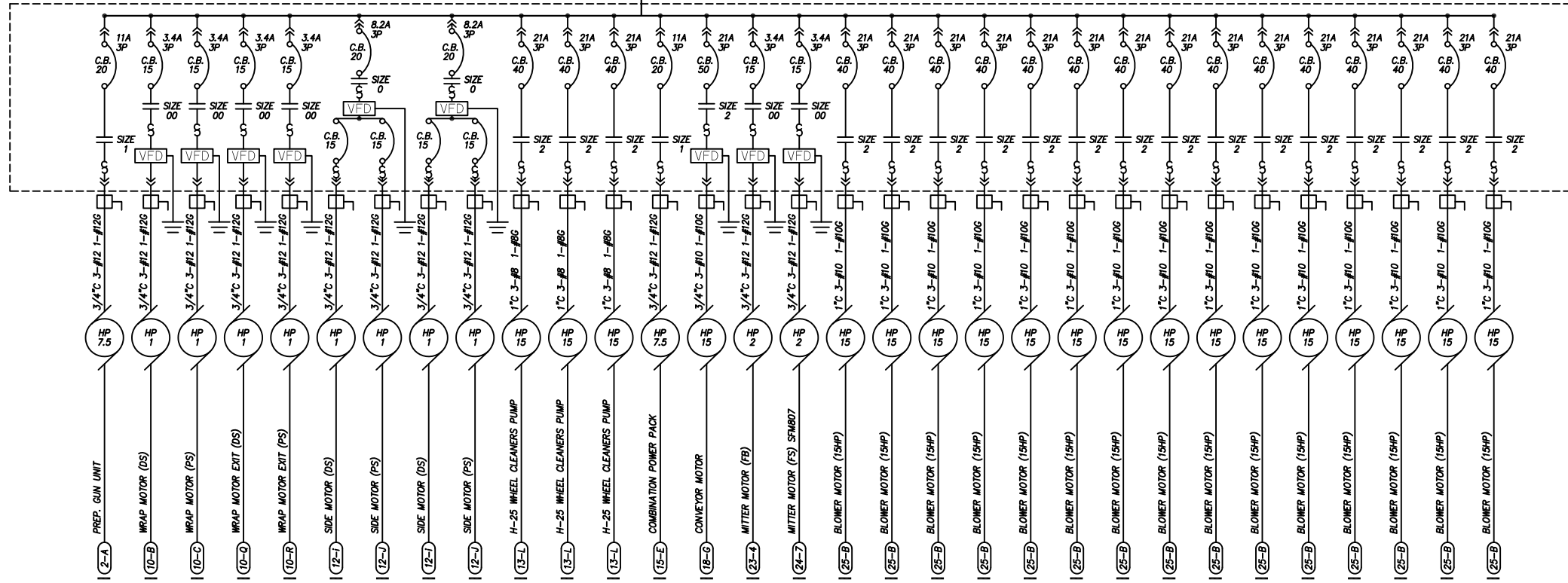
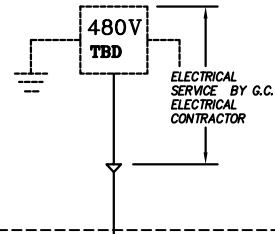
1. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD FOR MCC.
2. LOCATE MCC SUCH THAT PROPER FRONT WORKING SPACE IS MAINTAINED IN ACCORDANCE TO NEC 110-16(a).
3. ALL WIRE TO BE TYPE THHN/THWN.

02.18.22

- HANDLE MECHANISMS SHALL HAVE "LOCK-OFF" PROVISIONS.
- ALL STARTERS ARE FVNR.
- MCC SHALL BE WIRED NEMA CLASS 1, TYPE A.
- MCC SHALL HAVE MOTOR CIRCUIT PROTECTORS ON STARTER UNITS.
- TUNNEL CONTROLLER RELAYS REQUIRE DRY-CONTACT CONNECTIONS.
- IF THE TUNNEL CONTROLLER IS NOT INTEGRATED IN THE MCC ENCLOSURE, CONTROL WIRE TO CONNECT BOTH UNITS, MUST BE #14 (THHN/THWN) OR GREATER.
- IF VFD'S ARE USED, ALL CONDUITS TO MOTORS CONTROLLED BY VFD SHOULD BE STEEL (PVC IS NOT RECOMMENDED), AND ALL VFD MUST HAVE INDIVIDUAL DRIVEN GROUND CONNECTION.
- IF PVC IS USED, THEN VFD RATED CABLE WITH SHARED DEDICATED EARTH GROUND MUST BE USED TO POINT OF CONNECTION.
- VFD'S CONTROL REQUIRES (2) #16 FOR DRY-CONTACT POWER SUPPLY PER VFD. THE CB SHOULD BE INSTANTANEOUS TRIP BREAKER (ARTICLE 430.52-A)

MCC NOTES:

- (□)-DISCONNECTS IF NEEDED TO BE MOUNTED IN TUNNEL OR OTHER AREAS NOT WITHIN 50 L.F. OR L.O.S. OF MCC IN CONFORMANCE WITH N.E.C. AND/OR LOCAL CODES. ALSO TO BE TYPE 4X NON-METALLIC ENCLOSURES, NON-FUSED SIZED FOR LOAD. DISCONNECTING MEANS SHALL NOT BE REQUIRED WHERE SUCH A LOCATION OF THE DISCONNECTING MEANS IS IMPRACTICABLE OR INTRODUCES ADDITIONAL OR INCREASED HAZARDS TO PERSON OR PROPERTY. N.E.C. (ARTICLE 430.102-B-a)
- ALL CONDUIT, WIRES, DISCONNECTS, AND TERMINATIONS BY G.C. ELECTRICIAN.
- MOTOR WIRE SIZE INDICATED ON THIS SHEET ASSUMES LENGTHS OF RUN TO BE 100 LF OR LESS. IF RUNS EXCEED 100 LF, PROJECT M.E.P. ENGINEER OF RECORD IS REQUIRED TO RUN NECESSARY CALCULATIONS TO DETERMINE VOLTAGE DROP AND CHANGE WIRE SPECIFICATIONS, AS NECESSARY.



ONE-LINE DIAGRAM

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ONE LINE ELECTRICAL; GC
SCHEMATIC

Scale:

N.T.S.

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FL

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CRD BY: LV

REV DATE: 03.10.23

DWN BY: JCH

CHKD BY:

PANEL & CIRCUITS BY G.C. ELECTRICIAN

PANEL SCHEDULE
VOLTS: 120/208 PHASE: 3 WIRE: 4 MARK CW-A
MAINS:

CKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA OC	DEM %	DEM WATTS	COND	WIRE
2	20	1	TUNNEL LIGHTING		100			
4	20	1	TUNNEL LIGHTING		100			
6	20	1	CONTROL_120V (1-2)		100			
8	20	1	CONTROL_120V (1-DE)		100			
10	20	1	CONTROL_120V (1-H)		100			
12	20	1	SOFTENER (1-P)		100			
14	20	1	CONTROL_120V (1-W)		100			
16	20	1	AIR COMPRESSOR (10-A)		100			
18	20	1	AIR COMPRESSOR (10-A)		100			
20	20	1	AIR DRYER (10-L)		100			
22	20	1	ANTI COLLISION (21-C)		100			
24	30	1	MAT MACH. (38-1)		100			
26	30	1	MAT MACH. (38-1)		100			
28	30	1	G&G Controller (29-B)		100			
30	30	1	G&G Controller (29-B)		100			
32	30	1	G&G Controller (29-B)		100			
34	30	1	G&G Controller (29-B)		100			
36	30	1	G&G Controller (29-B)		100			
38	30	1	G&G Controller (29-B)		100			
40	30	1	G&G Controller (29-B)		100			
42	30	1	G&G Controller (29-B)		100			

CKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA OC	DEM %	DEM WATTS	COND	WIRE
1	20	1	E.ROOM LIGHTING		100			
3	20	1	E.ROOM LIGHTING		100			
5	20	1	VACUUM LIGHTING		100			
7	20	1	VACUUM LIGHTING		100			
9	20	1	MONSTER ARCH (40-G)		100			
11	20	1	GALAXY ARCH (29-6)		100			
13	20	1	WAIT & GO (30-C)		100			
15	20	1	MASTER COMP.		100			
17	20	1	INPUT TERMINAL (20-B)		100			
19	20	1	RELAY BOX (20-1)		100			
21	20	1	GATE (20-D)		100			
23	20	1	GATE (20-D)		100			
25	20	1	CPS (20-E) GFCI		100			
27	20	1	CPS (20-E) GFCI		100			
29	20	1	MENU SIGN (30-1)		100			
31	20	1	MENU SIGN (30-1)		100			
33			SPARE		100			
35			SPARE		100			
37			SPARE		100			
39			SPARE		100			
41			SPARE		100			

TOTALS

A.I.C. RATING	(VERIFY)	TOTAL CONNECTED	_____ WATTS
MOUNTING	SURFACE	TOTAL DEMAND	_____ WATTS
		TOTAL AMPS	_____ AMPS

PANEL & CIRCUITS BY G.C. ELECTRICIAN

PANEL SCHEDULE
VOLTS: 120/208 PHASE: 3 WIRE: 4 MARK CW-B
MAINS:

CKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA OC	DEM %	DEM WATTS	COND	WIRE
2	20	1	JET PAC VAC (37-G)		100			
4	20	1	JET PAC VAC (37-G)		100			
6	20	1	JET PAC VAC (37-G)		100			
8	20	1	JET PAC VAC (37-G)		100			
10	20	1	JET PAC VAC (37-G)		100			
12	20	1	JET PAC VAC (37-G)		100			
14	20	1	JET PAC VAC (37-G)		100			
16			SPARE		100			
18			SPARE		100			
20			SPARE		100			
22			SPARE		100			

CKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA OC	DEM %	DEM WATTS	COND	WIRE
1	20	1	JET PAC VAC (37-G)		100			
3	20	1	JET PAC VAC (37-G)		100			
5	20	1	JET PAC VAC (37-G)		100			
7	20	1	JET PAC VAC (37-G)		100			
9	20	1	JET PAC VAC (37-G)		100			
11	20	1	JET PAC VAC (37-G)		100			
13			SPARE		100			
15			SPARE		100			
17			SPARE		100			
19			SPARE		100			
21			SPARE		100			

TOTALS

A.I.C. RATING	(VERIFY)	TOTAL CONNECTED	_____ WATTS
MOUNTING	SURFACE	TOTAL DEMAND	_____ WATTS
		TOTAL AMPS	_____ AMPS

PANEL & CIRCUITS BY G.C. ELECTRICIAN

PANEL SCHEDULE
VOLTS: 277/480 PHASE: 3 WIRE: 4 MARK CW
MAINS:

CKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA OC	DEM %	DEM WATTS	COND	WIRE
2	15	3	RECLAIM UNIT (1-2)		100			
4					100			
6					100			
8	15	3	RO UNIT (1-D)		100			
10					100			
12					100			
14	15	3	RO REPRESSURIZER (1-E)		100			
16					100			
18					100			
20	15	3	H2O REP. PUMP_5 (1-H)		100			
22					100			
24					100			
26	25	3	COMPRESSOR.10HP (10-A)		100			
28					100			
30					100			
32	25	3	COMPRESSOR.10HP (10-A)		100			
34					100			
36					100			
38			SPARE		100			
40			SPARE		100			
42			SPARE		100			

CKT No.	DEVICE AMP TRIP	POLES	DESCRIPTION	CONN. LOAD (WATTS) OA OC	DEM %	DEM WATTS	COND	WIRE
1	20	3	GRUNDFOS PUMP (33-B)		100			
3					100			
5					100			
7	15	3	GRUNDFOS PUMP (33-D)		100			
9					100			
11					100			
13			SPARE		100			
15			SPARE		100			
17			SPARE		100			
19			SPARE		100			
21			SPARE		100			
23			SPARE		100			
25			SPARE		100			
27			SPARE		100			
29			SPARE		100			
31			SPARE		100			
33			SPARE		100			
35			SPARE		100			
37			SPARE		100			
39			SPARE		100			
41			SPARE		100			

TOTALS

A.I.C. RATING	(VERIFY)	TOTAL CONNECTED	_____ WATTS
MOUNTING	SURFACE	TOTAL DEMAND	_____ WATTS
		TOTAL AMPS	_____ AMPS

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ELECTRICAL PANEL; GC
SCHEMATIC

Scale:

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CRTD DATE: 12.07.22
CRTD BY: LV
REV DATE: 03.10.23
DWN BY: JCH
CHKD BY:

GC = GENERAL CONTRACTOR
 SCWI = SONNY'S CARWASH INSTALLER

ELECTRICAL SPECIFICATIONS
GENERAL CONTRACTOR

A. GENERAL PROVISIONS

1. THE WORK SHALL CONSIST OF FURNISHING LABOR, EQUIPMENT, AND MATERIALS AS REQUIRED TO PROVIDE THE COMPLETE, INTEGRATED, AND PROPERLY FUNCTIONING SYSTEMS AS SHOWN ON THE DRAWINGS.
2. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, INSTALLING, AND TERMINATING ALL 3 PHASE, 1 PHASE, AND COMPUTER/CONTROL POWER PER THESE DRAWINGS AND SONNY'S INSTALLATION MANUALS.
3. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS AND ORDINANCES.
4. ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSI, UL, ETC.
5. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCE.
6. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS. FIELD VERIFICATIONS OF DIMENSIONS IS DIRECTED.
7. SECURE PERMITS AND INSPECTIONS REQUIRED BY STATE AND LOCAL LAWS AND ORDINANCES.
8. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER CERTIFICATES OF FINAL INSPECTIONS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
9. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
10. ELECTRICAL EQUIPMENT SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS.

B. RACEWAYS

1. ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS UNLESS OTHERWISE INDICATED.
2. MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE SIZE
3. USE FLEXIBLE CONDUIT FOR SHORT, FINAL CONNECTIONS TO VIBRATING EQUIPMENT SUCH AS MOTORS AND TRANSFORMERS. LIQUID-TIGHT FLEXIBLE CONDUIT SHALL BE USED IN DAMP AND WET LOCATIONS. ALL BLOWER CONNECTIONS MUST HAVE 24" SERVICE DRIP LOOP TO ALLOW MOVEMENT OR MAINTENANCE. FLEXIBLE CORDS SHALL BE USED WHERE INDICATED ON THE PLANS.
4. EXPOSED CONDUITS SHALL BE RUN PARALLEL TO BUILDING LINES.
5. DO NOT INSTALL CONDUITS LARGER THAN 1/3 THE SLAB THICKNESS IN CONCRETE SLABS.
6. PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE, TOXIC GAS, OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING, OR AFTER A FIRE, AS REQUIRED BY NEC ARTICLE 300.21.
7. PROVIDE CABLE SUPPORTS IN ACCORDANCE WITH NEC ARTICLE 300.
8. PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.
9. RACEWAYS OR CABLE TRAYS CONTAINING ELECTRICAL CONDUCTORS SHALL NOT CONTAIN ANY PIPE, TUBE, OR EQUAL FOR STEAM, WATER, AIR, GAS, DRAINAGE, OR ANY SERVICE OTHER THAN ELECTRICAL AS REQUIRED BY NEC ARTICLE 300.8.

C. CONDUCTORS

1. ALL WIRING SHALL BE COPPER.
2. CONDUCTORS SHALL BE RATED 600V WITH TYPE THWN/THHN INSULATION.
3. WIRES SHALL BE STRANDED CONDUCTORS.
4. ELECTRICAL ENGINEER OF RECORD SHALL VERIFY THAT ALL SPECIFIED WIRE SIZES MEET LOCAL AND NATIONAL ELECTRICAL CODES.
5. START-STOP STATION MUST HAVE AT LEAST (2) #14 WIRES OR GREATER.

D. CONNECTORS

1. ALL WIRE CONNECTIONS FOR 10HP MOTORS OR LARGER MUST BE SPLIT BOLT CONNECTORS OR EQUIVALENT APPROVED BY NEC AND/OR MANUFACTURER.

E. LIGHTING PANELS

1. PROVIDE LIGHTING PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE AND SHALL BEAR THE UL LABEL, AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
2. UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED AT 6'-0" AFF.
3. ALL PANELS SHALL HAVE TYPED CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
4. PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE AIC RATING INDICATED ON THE PANEL SCHEDULES.
5. ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE. NO "PIGGYBACK" OR TANDEM BREAKERS ARE PERMITTED.

F. SAFETY SWITCHES

1. SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE NON-FUSIBLE WITH POLES, AMPERE AND SERVICE RATINGS AS INDICATED ON THE PLANS. LUGS SHALL BE UL LISTED FOR CU/AL.
2. ENCLOSURES FOR SAFETY SWITCHES SHALL BE NEMA 1, EXCEPT FOR SWITCHES MARKED "WP" (WEATHERPROOF) SHALL BE NEMA 4X.
 - a. PROVIDE LOCAL DISCONNECTS FOR MOTORS IN TUNNEL OR OTHER AREAS NOT WITHIN 50 LINEAR FEET OR LINE OF SIGHT OF MCC IN ACCORDANCE WITH NEC AND/OR LOCAL CODES. DISCONNECTS SHALL BE NON-FUSIBLE TYPE, SIZED FOR LOAD. PROVIDE NEMA TYPE 4X, NON-METALLIC ENCLOSURES. LOCAL DISCONNECTS SHALL NOT BE REQUIRED IN LOCATIONS WHERE THEIR USE IS IMPRACTICABLE OR INTRODUCES ADDITIONAL OR INCREASED HAZARDS TO PERSON OR PROPERTY, HOWEVER AN INDIVIDUAL LOCKOUT MUST BE PROVIDED AT THE CONTROLLER DISCONNECTING MEANS IN ACCORDANCE WITH NEC ARTICLE 430.102-B-a.

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DIVISION OF WORK
ELECTRICAL

Scale:
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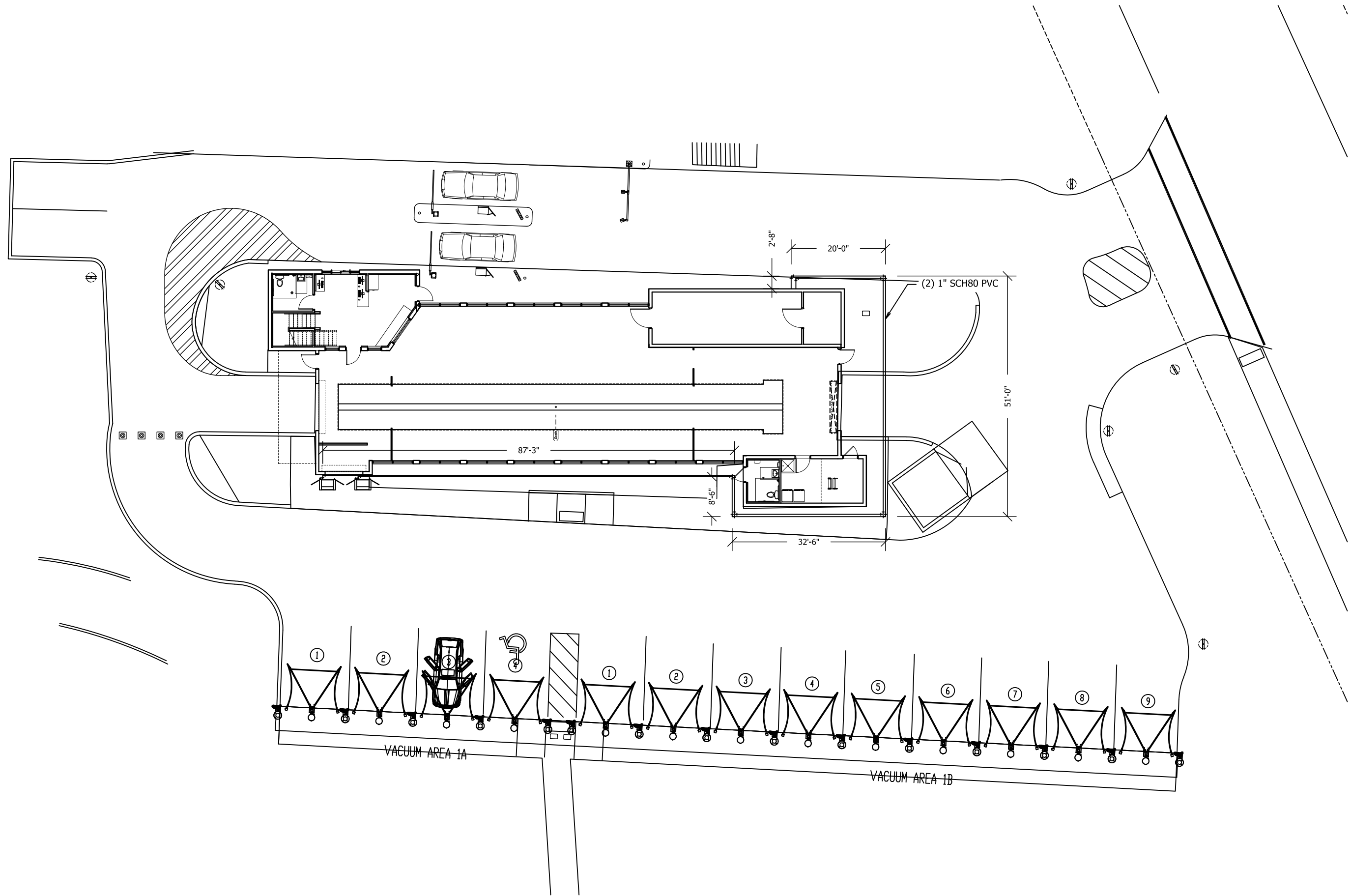
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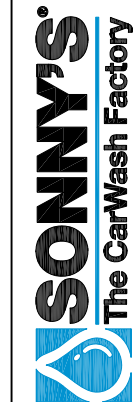
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VACUUM SITE LAYOUT; GC

Scale:

1"=20'

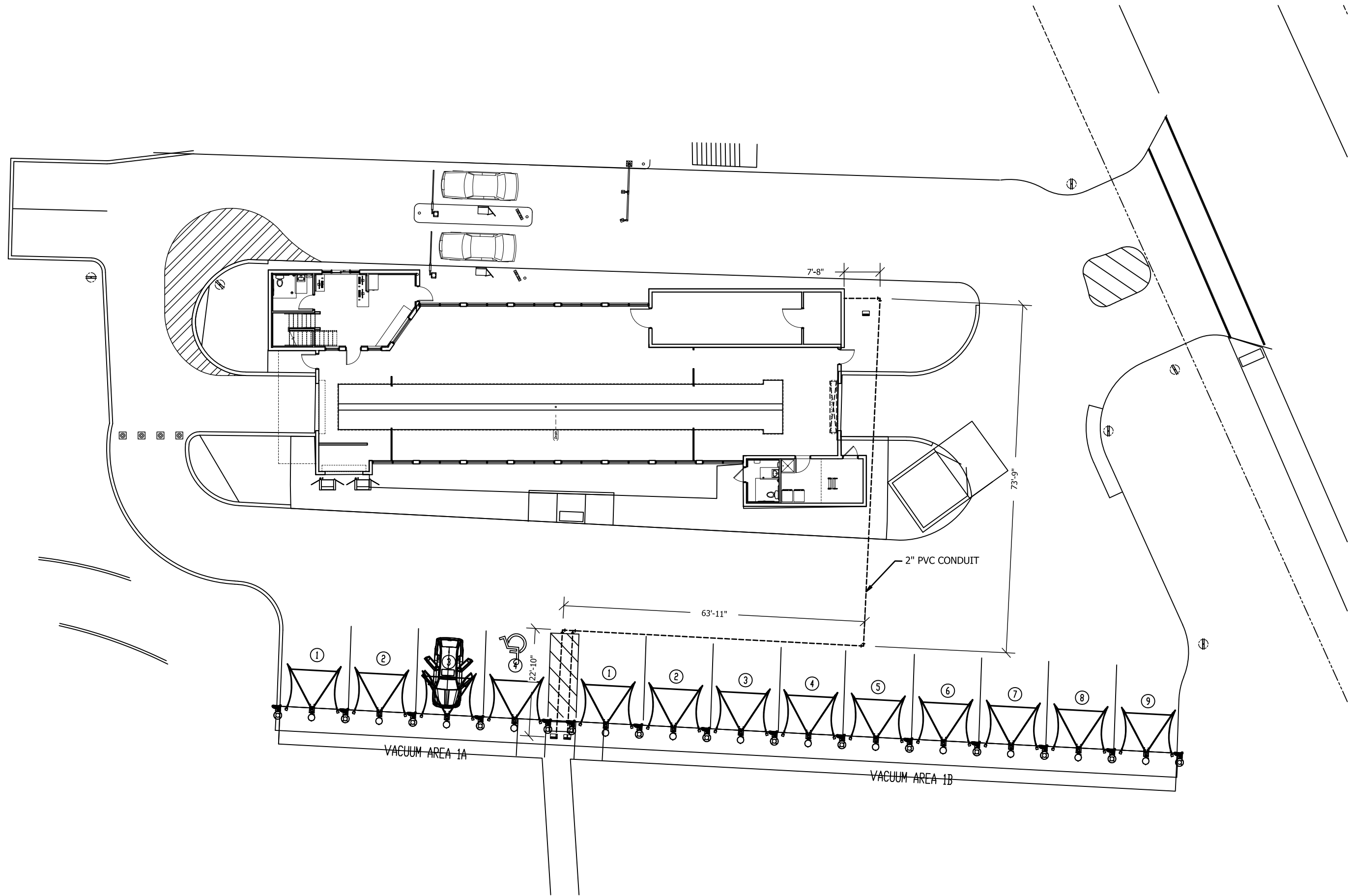


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VACUUM PNEUMATIC LAYOUT; GC

Scale:

1"=20'

Location:

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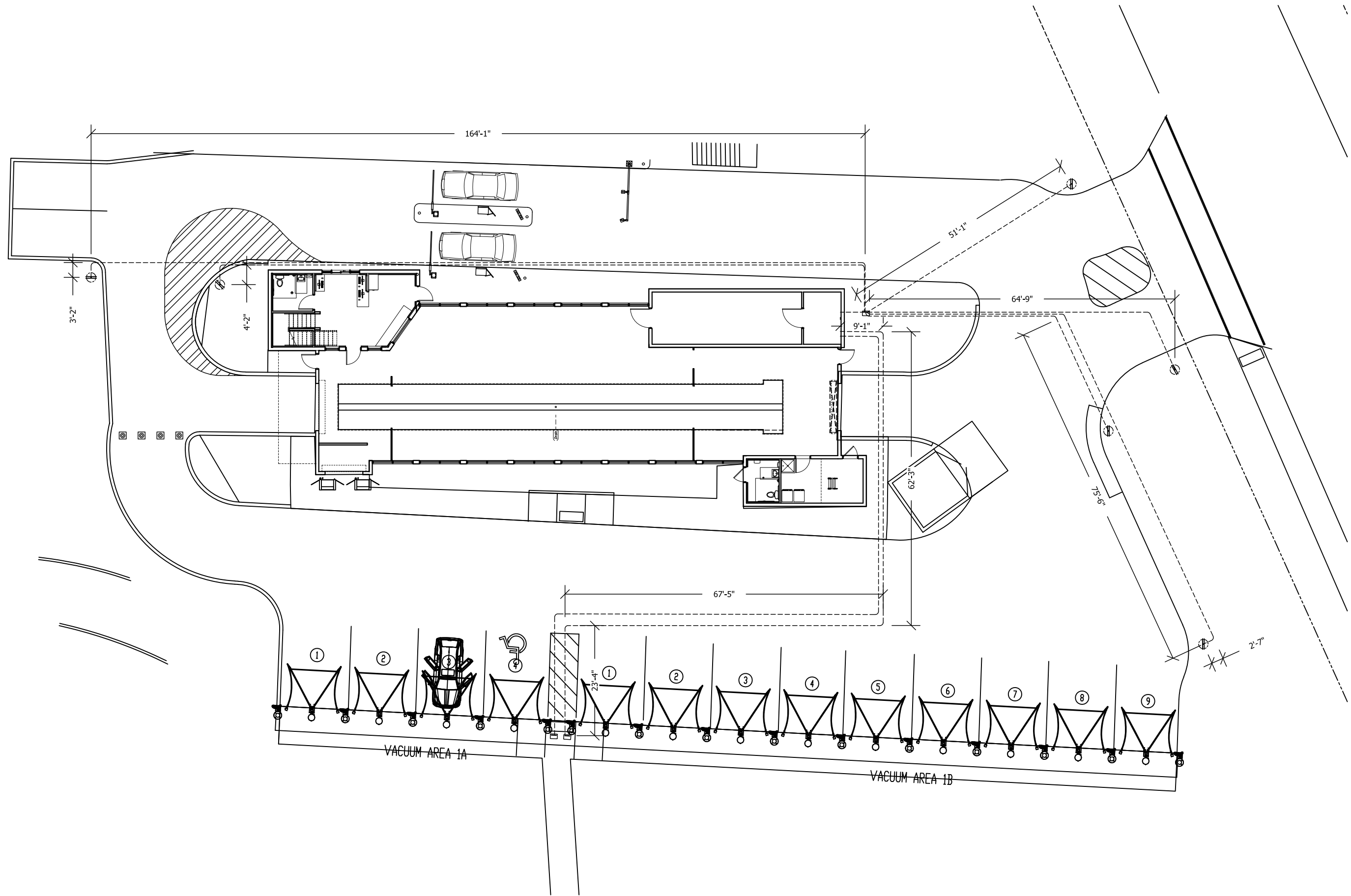
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VACUUM LIGHT LAYOUT; GC

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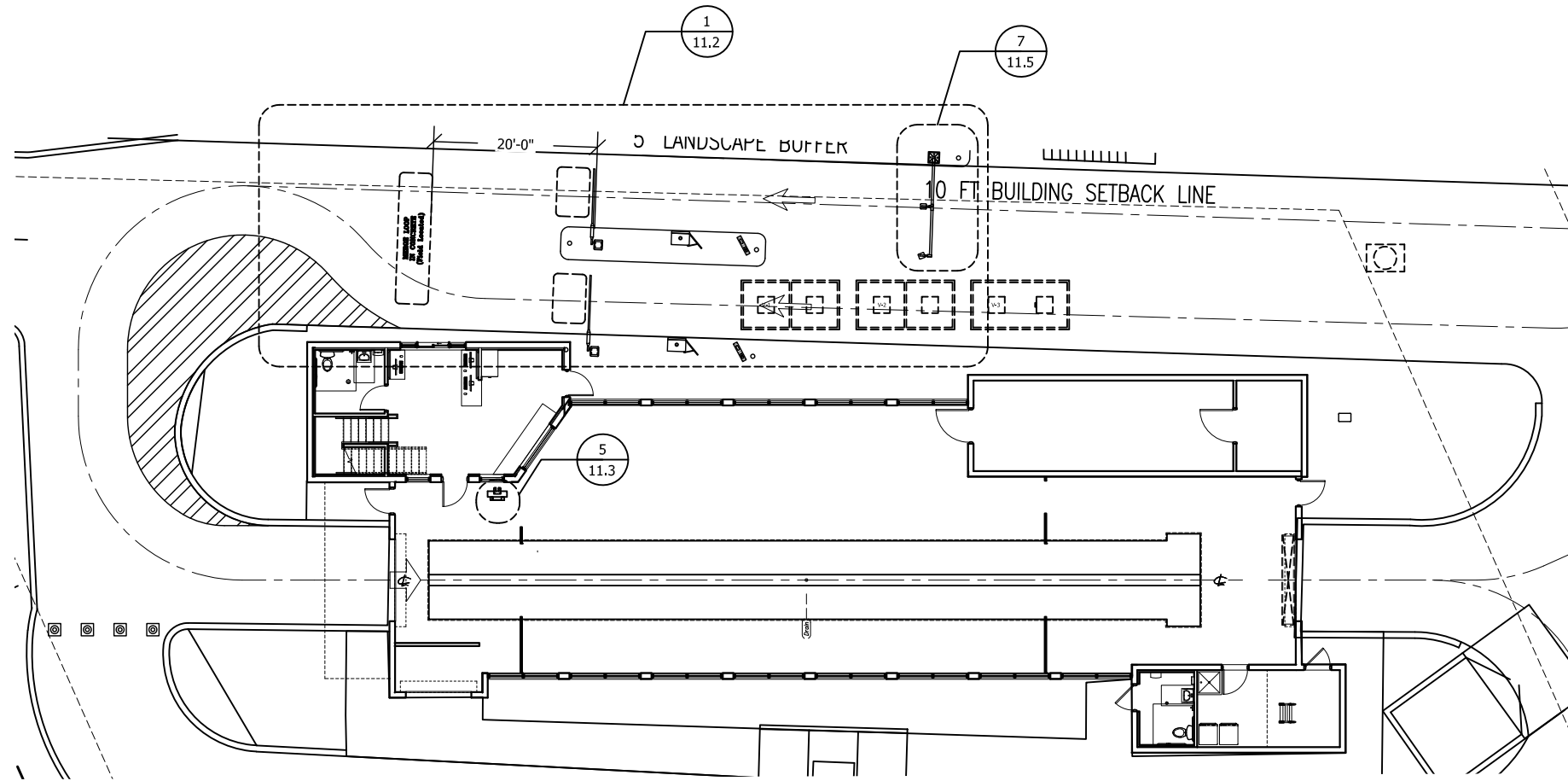
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POS SITE LAYOUT; GC

Scale:

1"=20'

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11.1

Project Number: 220985-E12
 Project Name: K2 - CANDACE

Location:

FL

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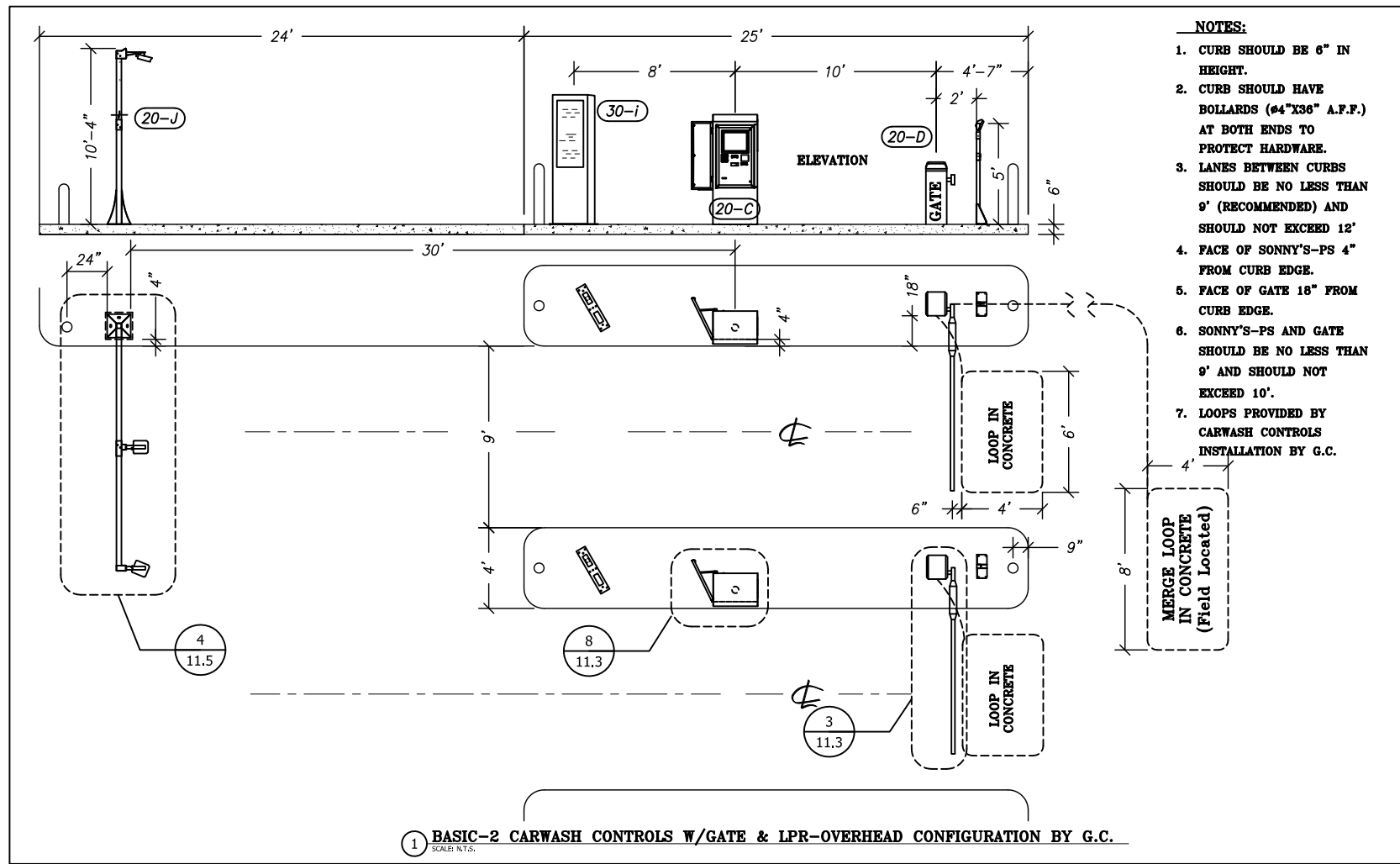
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REV DATE: 03.10.23

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CHKD BY:



- NOTES:**
1. CURB SHOULD BE 6" IN HEIGHT.
 2. CURB SHOULD HAVE BOLLARDS (#4"x36" A.F.F.) AT BOTH ENDS TO PROTECT HARDWARE.
 3. LANES BETWEEN CURBS SHOULD BE NO LESS THAN 9' (RECOMMENDED) AND SHOULD NOT EXCEED 12'
 4. FACE OF SONNY'S-PS 4" FROM CURB EDGE.
 5. FACE OF GATE 18" FROM CURB EDGE.
 6. SONNY'S-PS AND GATE SHOULD BE NO LESS THAN 9' AND SHOULD NOT EXCEED 10'.
 7. LOOPS PROVIDED BY CARWASH CONTROLS INSTALLATION BY G.C.



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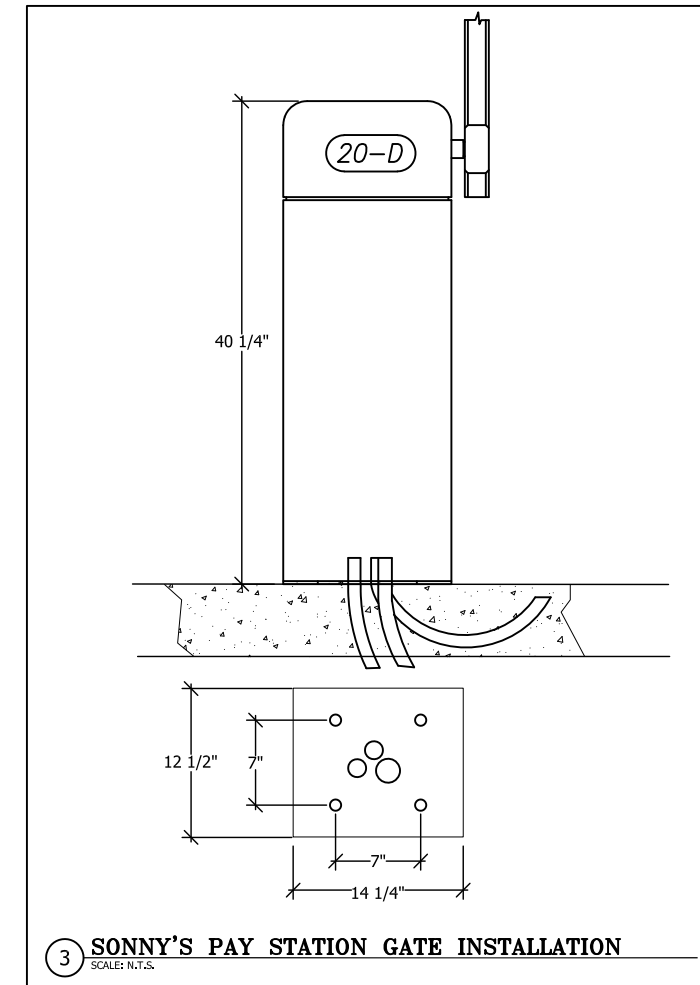
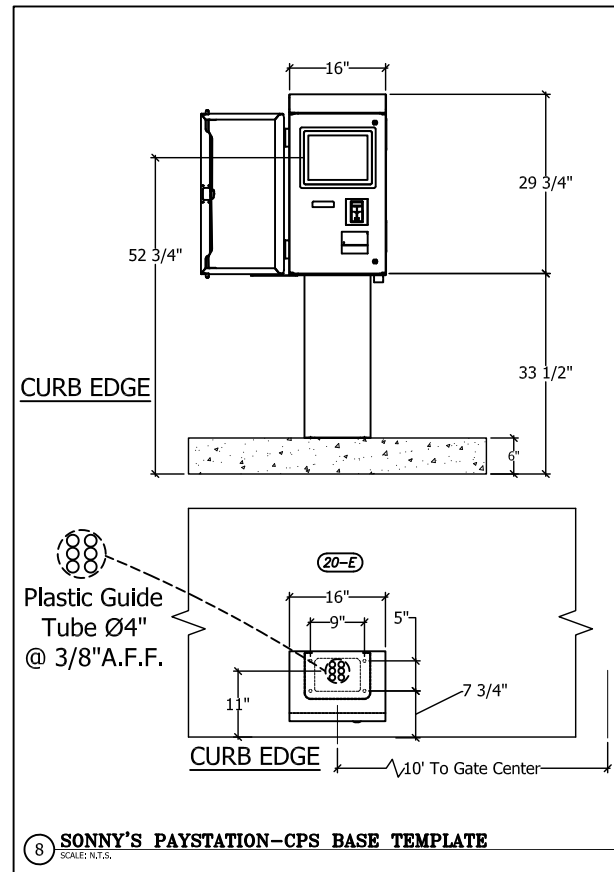
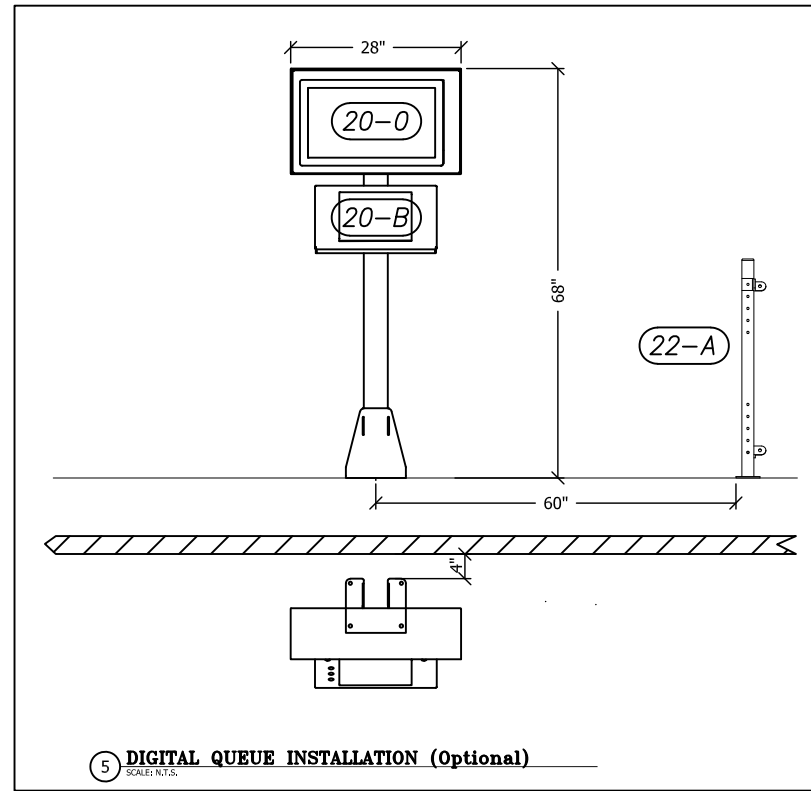
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POS CONFIGURATION; GC SCHEMATIC

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**POS CONFIGURATION; GC
SCHEMATIC**

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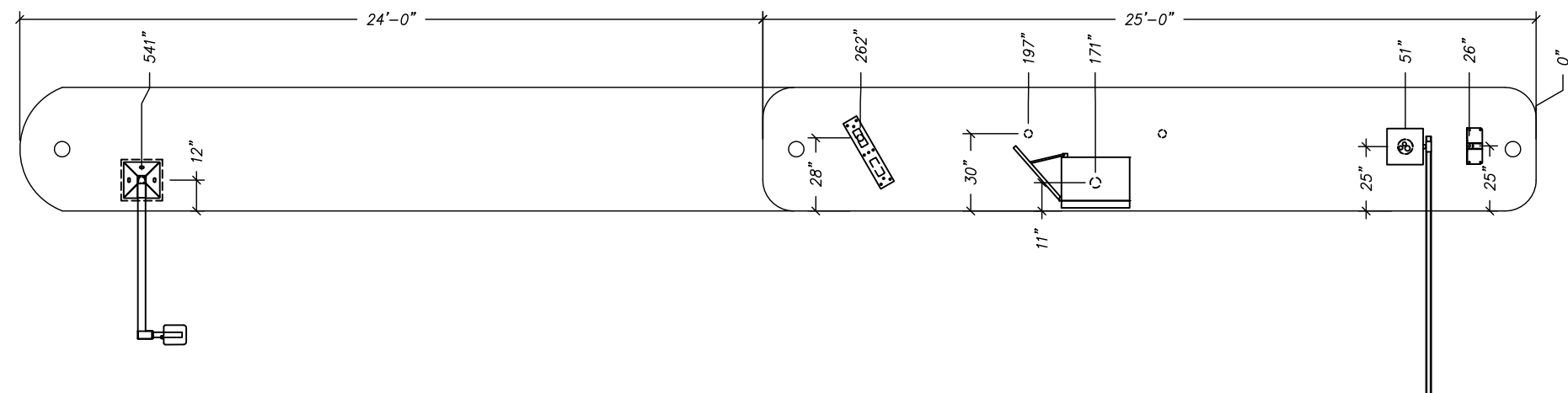
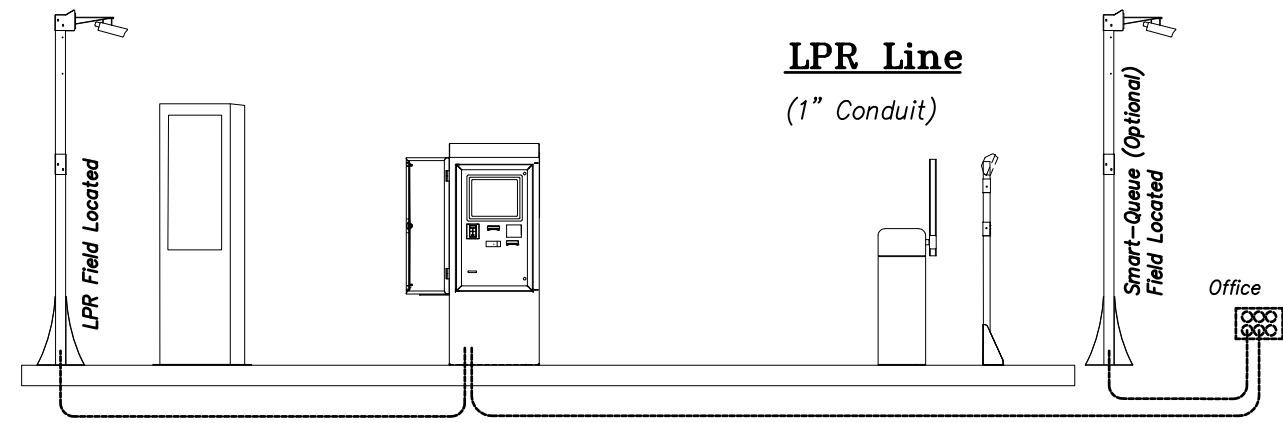
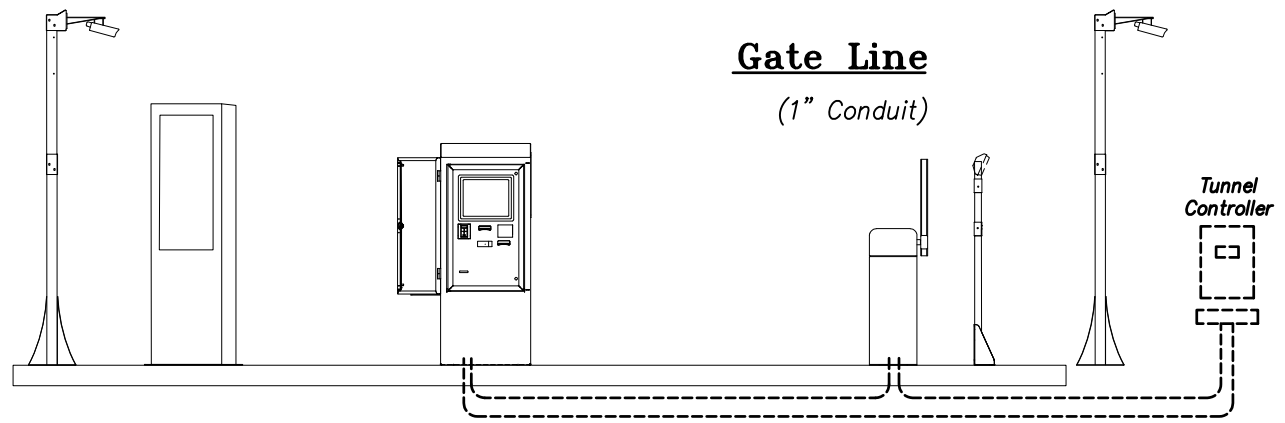
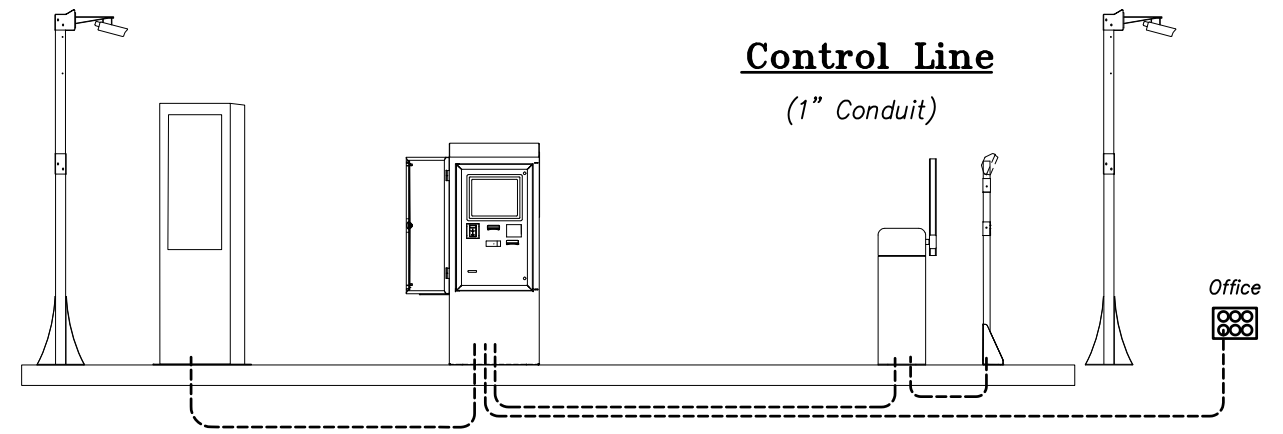
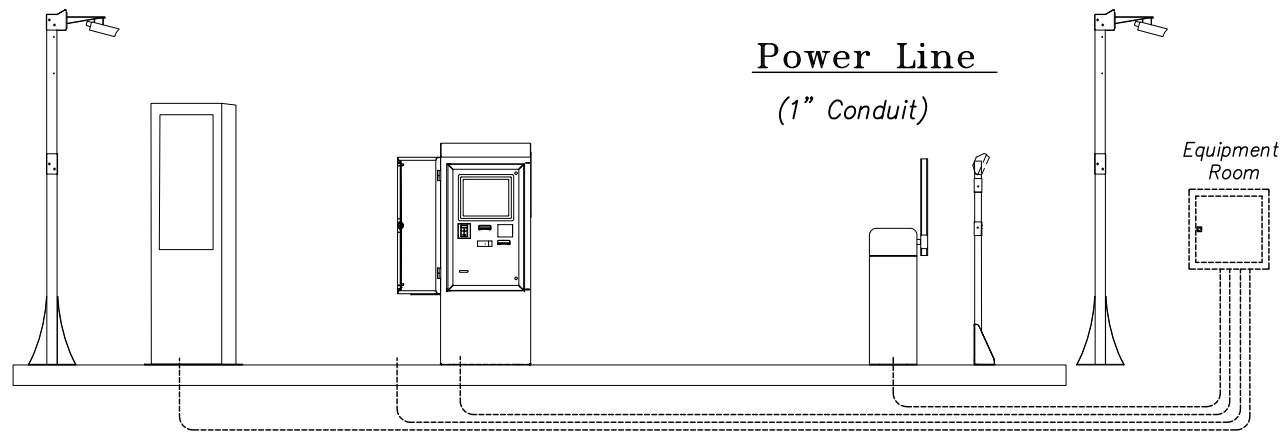
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Project Name: **K2 - CANDACE**

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POS ISLAND CONDUIT LAYOUT; GC SCHEMATIC

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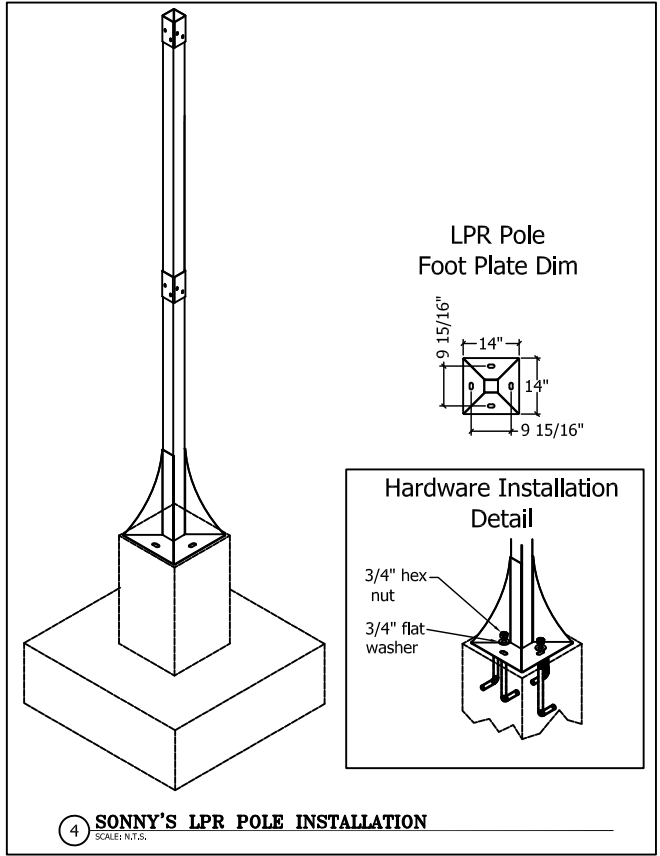
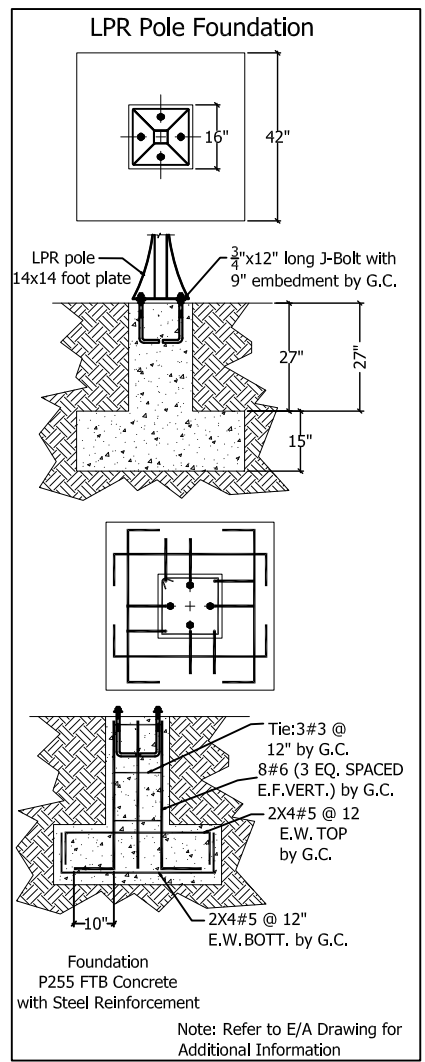
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POS SITE FOUNDATION; GC

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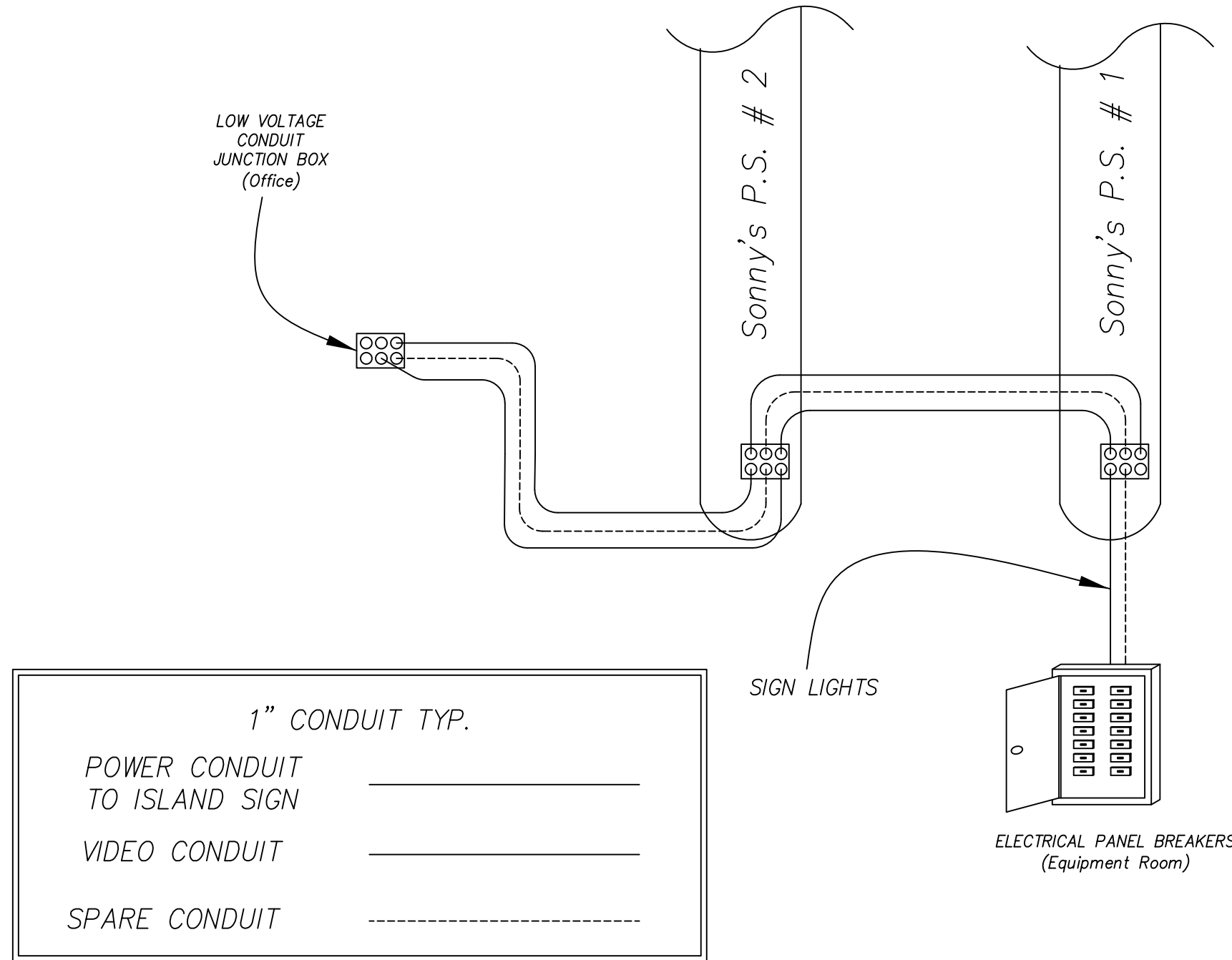
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SONNY'S
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GENERIC CARWASH W/ LPR OVERHEAD

2-Sonny's P.S. LIGHTS AND LPR CONDUIT LAYOUT



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ISLAND CONDUIT LAYOUT; GC

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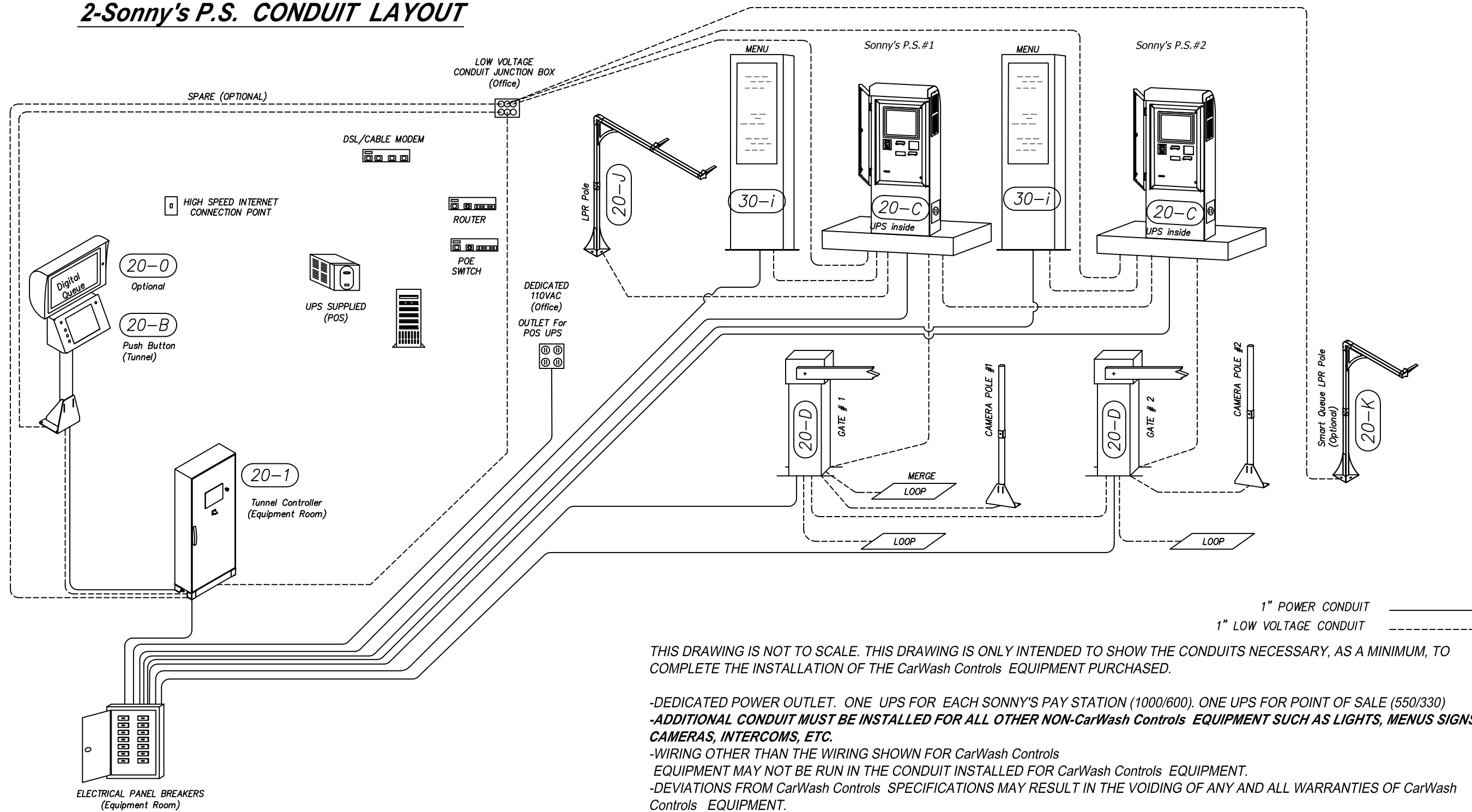
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GENERIC CARWASH W/ LPR-OVERHEAD

2-Sonny's P.S. CONDUIT LAYOUT



THIS DRAWING IS NOT TO SCALE. THIS DRAWING IS ONLY INTENDED TO SHOW THE CONDUITS NECESSARY, AS A MINIMUM, TO COMPLETE THE INSTALLATION OF THE CarWash Controls EQUIPMENT PURCHASED.

- DEDICATED POWER OUTLET. ONE UPS FOR EACH SONNY'S PAY STATION (1000/600). ONE UPS FOR POINT OF SALE (550/330)
- ADDITIONAL CONDUIT MUST BE INSTALLED FOR ALL OTHER NON-CarWash Controls EQUIPMENT SUCH AS LIGHTS, MENUS SIGNS, CAMERAS, INTERCOMS, ETC.
- WIRING OTHER THAN THE WIRING SHOWN FOR CarWash Controls EQUIPMENT MAY NOT BE RUN IN THE CONDUIT INSTALLED FOR CarWash Controls EQUIPMENT.
- DEVIATIONS FROM CarWash Controls SPECIFICATIONS MAY RESULT IN THE VOIDING OF ANY AND ALL WARRANTIES OF CarWash Controls EQUIPMENT.

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POS CONDUIT LAYOUT; GC

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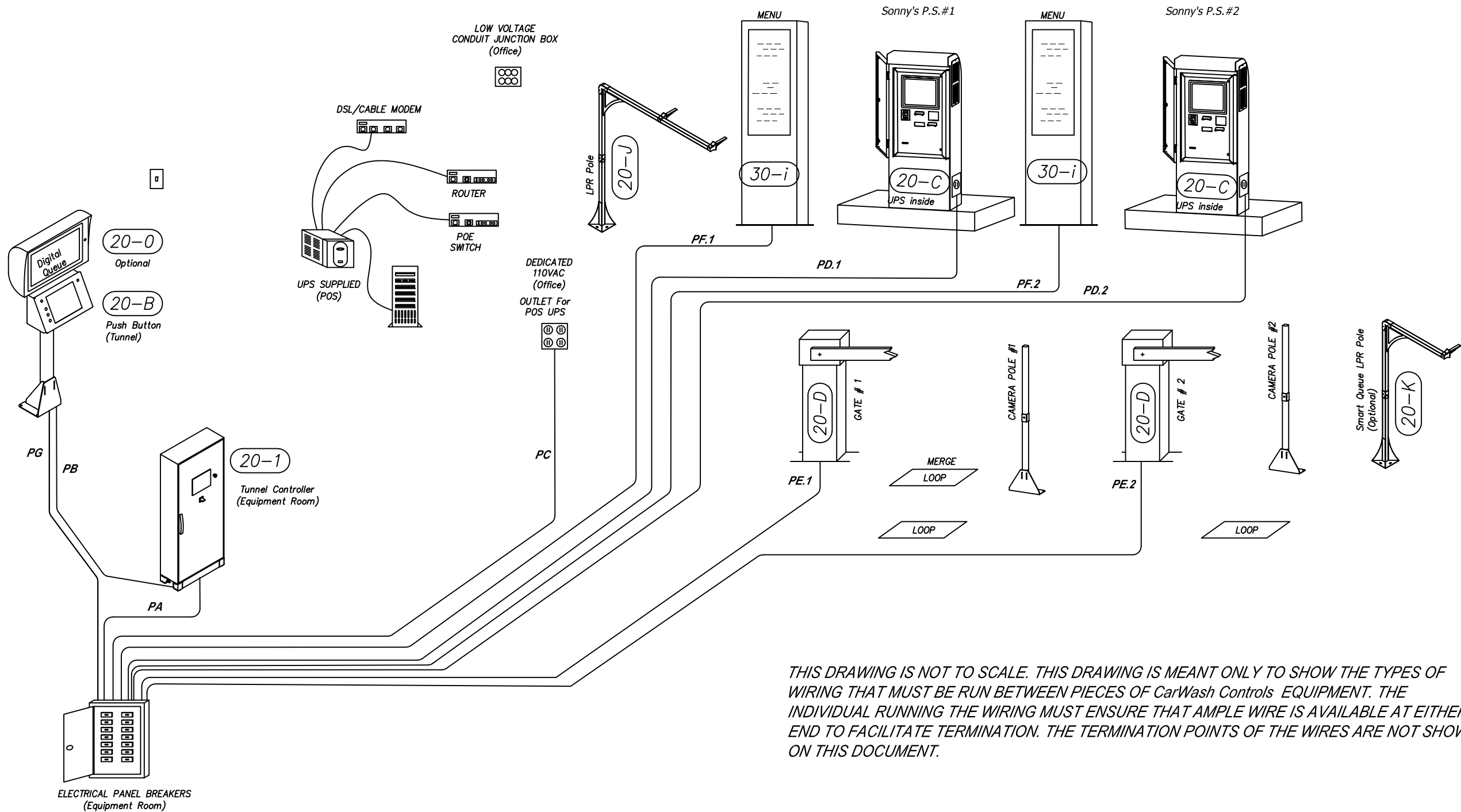
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GENERIC CARWASH W/ LPR-OVERHEAD

2-Sonny's P.S. "POWER LAYOUT"



THIS DRAWING IS NOT TO SCALE. THIS DRAWING IS MEANT ONLY TO SHOW THE TYPES OF WIRING THAT MUST BE RUN BETWEEN PIECES OF CarWash Controls EQUIPMENT. THE INDIVIDUAL RUNNING THE WIRING MUST ENSURE THAT AMPLE WIRE IS AVAILABLE AT EITHER END TO FACILITATE TERMINATION. THE TERMINATION POINTS OF THE WIRES ARE NOT SHOWN ON THIS DOCUMENT.

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POS POWER LAYOUT; GC

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GENERIC CARWASH W/ LPR-OVERHEAD
2-Sonny's P.S. "POWER LAYOUT"

IDENTIFIER	WIRE TYPE	PROVIDED BY	TERMINATION LOCATIONS	TERMINATED BY
PA	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO TUNNEL CONTROLLER (110 VAC)	GC
PB	14/3 BLUE/WHT/GRN	GC	FROM TUNNEL CONTROLLER TO PEDESTAL (24 VDC)	GC
PB	18/4	GC	FROM TUNNEL CONTROLLER TO START/STOP BUTTON PEDESTAL	GC
PC	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO OFFICE OUTLET (POS)	GC
PD.1	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO Sonny's P.S.#1 (UPS Inside)	GC
PD.1	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO Sonny's P.S.#1 (AC, SPS Only)	GC
PD.2	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO Sonny's P.S.#2 (UPS Inside)	GC
PD.2	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO Sonny's P.S.#2 (AC, SPS Only)	GC
PE.1	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO GATE#1 (110 VAC)	GC
PE.2	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO GATE#2 (110 VAC)	GC
PF.1	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO DIGITAL MENU #1 (110 VAC)	GC
PF.2	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO DIGITAL MENU #2 (110 VAC)	GC
PG	12/3 BLK/WHT/GRN	GC	FROM ELECTRICAL PANEL BREAKER TO DIGITAL QUEUE (110 VAC)	GC

NOTE: ALL WIRING FOR CarWash Controls EQUIPMENT TO BE RUN BY AN ELECTRICAL CONTRACTOR AND MUST BE HOME-RUNNED FROM POINT TO POINT. SPLICING OF WIRES IS NOT ALLOWED.

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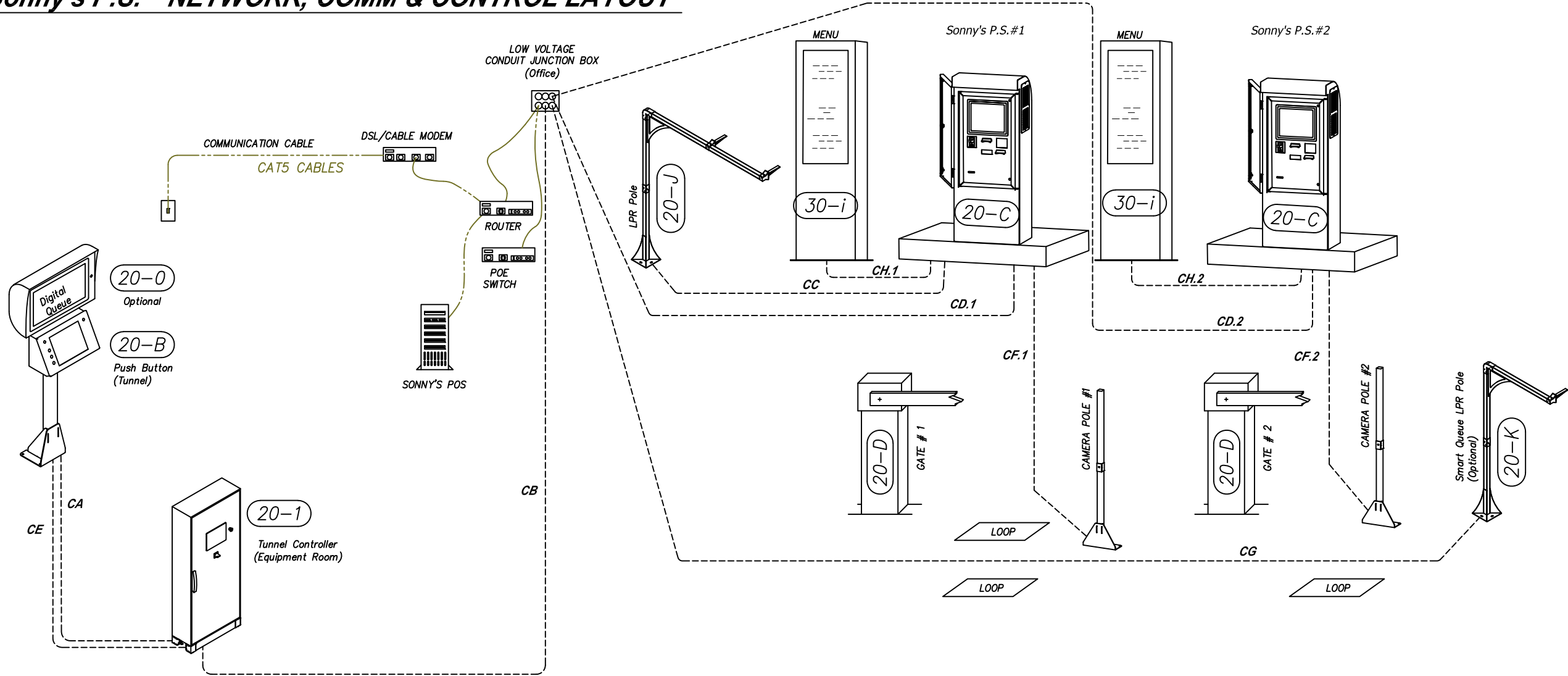
POS POWER SCHEDULE

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GENERIC CARWASH W/ LPR-OVERHEAD

2-Sonny's P.S. "NETWORK, COMM & CONTROL LAYOUT"



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GENERIC CARWASH W/ LPR-OVERHEAD
2-Sonny's P.S. "NETWORK, COMM & CONTROL LAYOUT"

IDENTIFIER	WIRE TYPE	PROVIDED BY	TERMINATION LOCATIONS	TERMINATED BY
CA	CAT5 SHIELDED	GC	FROM TUNNEL CONTROLLER TO PUSH BUTTON (PEDESTAL)	GC
CB	CAT5 SHIELDED	GC	FROM ROUTER TO TUNNEL CONTROLLER	GC
CC	(2) CAT5 SHIELDED	GC	FROM LPR POLE TO SONNYS P.S	GC
CD.1	CAT5 SHIELDED	GC	FROM ROUTER TO Sonny's P.S.#1	GC
CD.2	CAT5 SHIELDED	GC	FROM ROUTER TO Sonny's P.S.#2	GC
CE	CAT5 SHIELDED	GC	FROM TUNNEL CONTROLLER TO DIGITAL QUEUE	GC
CF.1	CAT5 SHIELDED	GC	FROM DQ CAMERA POLE #1 TO SONNYS P.S.#1	GC
CF.2	CAT5 SHIELDED	GC	FROM DQ CAMERA POLE #2 TO SONNYS P.S.#2	GC
CG	CAT5 SHIELDED	GC	FROM SMART QUEUE LPR POLE TO POE+ SWITCH	GC
CH.1	CAT5 SHIELDED	GC	FROM SONNYS P.S.#1 TO DIGITAL MENU #1	GC
CH.2	CAT5 SHIELDED	GC	FROM SONNYS P.S.#2 TO DIGITAL MENU #2	GC

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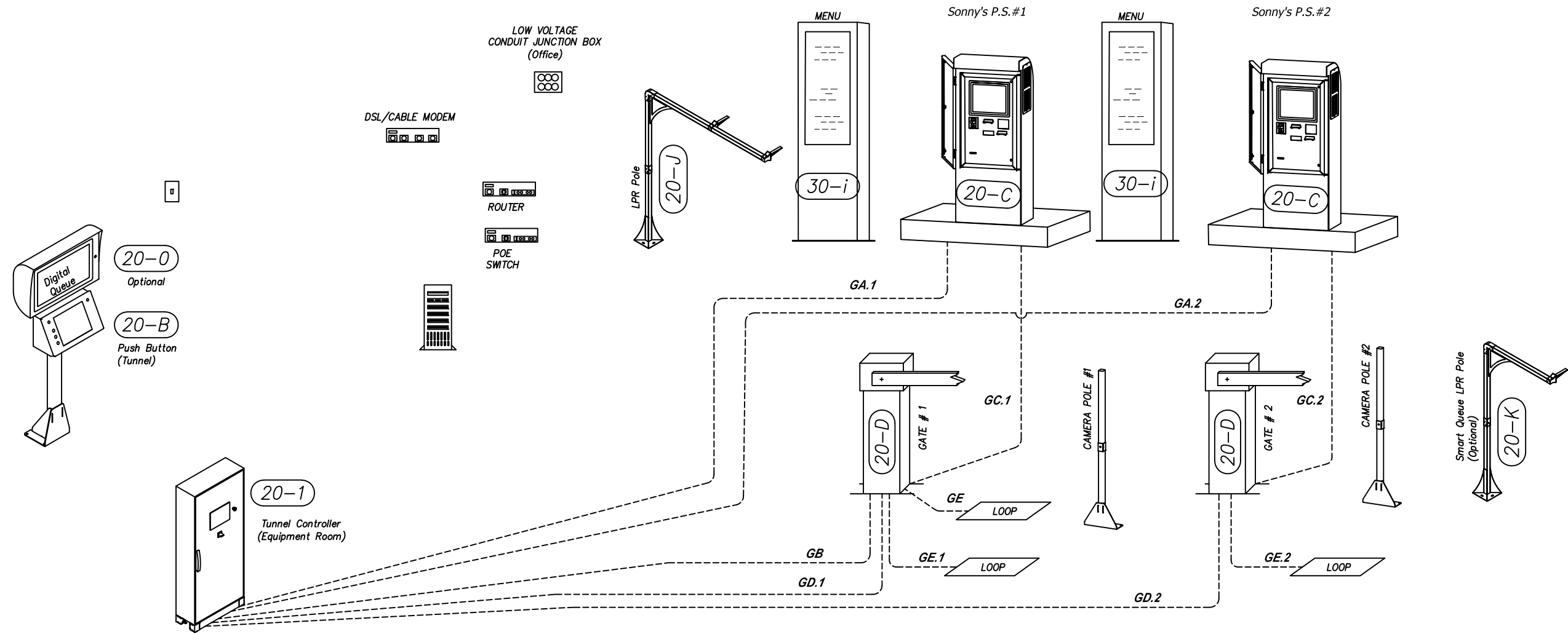
POS COMMUNICATION SCHEDULE

Scale:

N.T.S.

GENERIC CARWASH W/ LPR-OVERHEAD

2-Sonny's P.S. "GATE CONTROL LAYOUT"



THIS DRAWING IS NOT TO SCALE. THIS DRAWING IS MEANT ONLY TO SHOW THE TYPES OF WIRING THAT MUST BE RUN BETWEEN PIECES OF CarWash Controls EQUIPMENT. THE INDIVIDUAL RUNNING THE WIRING MUST ENSURE THAT AMPLE WIRE IS AVAILABLE AT EITHER END TO FACILITATE TERMINATION. THE TERMINATION POINTS OF THE WIRES ARE NOT SHOWN ON THIS DOCUMENT.

CRTD DATE:	12.07.22
CRTD BY:	LV
REV DATE:	03.10.23
DWN BY:	JCH
CHKD BY:	

SONNY'S
The CarWash Factory
http://www.SonnysDirect.com

Location:	FL
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Project Number:	220985-E12
Project Name:	K2 - CANDACE
Rev.	- + -
Sheet	
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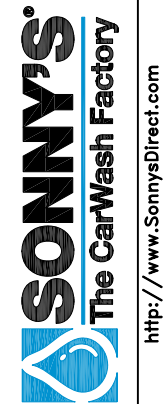
POS GATE CONTROL LAYOUT; GC
Scale:
N.T.S.

11.12

GENERIC CARWASH W/ LPR-OVERHEAD
2-Sonny's P.S. "GATE CONTROL LAYOUT"

IDENTIFIER	WIRE TYPE	PROVIDED BY	TERMINATION LOCATIONS	TERMINATED BY
GA.1	18/9 (8 SIGNAL/1 SPARE)	GC	FROM TUNNEL CONTROLLER TO Sonny's P.S.#1 (Gate I/O and CALL BUTTON)	GC
GA.2	18/9 (8 SIGNAL/1 SPARE)	GC	FROM TUNNEL CONTROLLER TO Sonny's P.S.#2 (Gate I/O and CALL BUTTON)	GC
GB	18/2	GC	FROM TUNNEL CONTROLLER TO GATE#1 (MERGE LOOP)	GC
GC.1	18/4 (2 SIGNAL/2 SPARE)	GC	FROM Sonny's P.S. #1 TO GATE#1	GC
GC.2	18/4 (2 SIGNAL/2 SPARE)	GC	FROM Sonny's P.S. #2 TO GATE#2	GC
GD.1	18/6	GC	FROM TUNNEL CONTROLLER TO GATE#1	GC
GD.2	18/6	GC	FROM TUNNEL CONTROLLER TO GATE#2	GC
GE	MERGE LOOP	SONNYS	FROM GATE#1 TO MERGE LOOP	GC
GE.1	LOOP	SONNYS	FROM GATE#1 TO LOOP#1	GC
GE.2	LOOP	SONNYS	FROM GATE#2 TO LOOP#2	GC

NOTE: ALL WIRING FOR CarWash Controls EQUIPMENT TO BE RUN BY AN ELECTRICAL CONTRACTOR AND MUST BE HOME-RUNNED FROM POINT TO POINT. SPLICING OF WIRES IS NOT ALLOWED.



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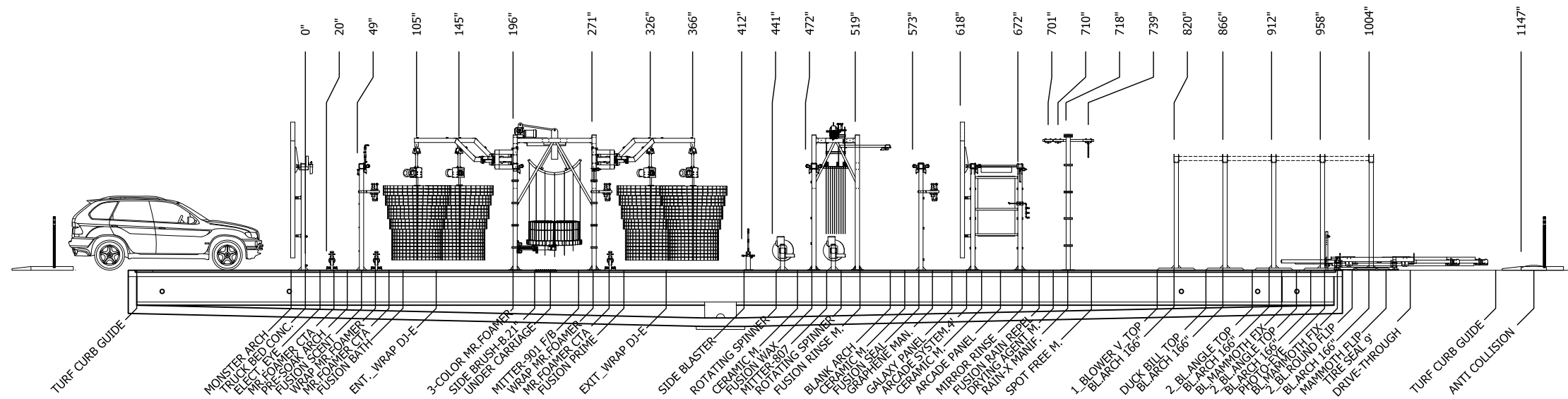
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POS GATE CONTROL SCHEDULE

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TIMING DISTANCES

Scale:

3/32"=1'

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12.1

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