CLARK OIL COMPANY CAR WASH

WAYNESBORO, MS, USA
CAR WASH DESIGN PACKAGE

DRAWING LIST

PAGE	DRAWING NUMBER	DRAWING TITLE
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2	SE17-079-L1	EQUIPMENT LAYOUT - PLAN VIEW
3	SE17-079-E1	ELECTRICAL LAYOUT - PLAN VIEW
4	SE17-079-E2	ELECTRICAL LAYOUT - UNDERGROUND CONDUITS
5	SE17-079-P1	AIR & WATER PLUMBING LAYOUT - EQUIPMENT ROOM ELAVATION VIEW
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7	SE17-079-T1	SHELF TRECH LAYOUT - PLAN & ELEVATION VIEW
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10	SE17-079-R3	HYDRAFLEX CHEMICAL SYSTEM - ELECTRICAL SPECIFICATIONS

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THE PLAN BEARING THIS LEGEND AND THE ACCOMPANYING SPECIFICATIONS HAVE BEEN PREPARED BY MACNEIL WASH SYSTEMS LTD. FOR THE PARTY WHOSE NAME APPEARS IN THE TITLE BOX IN CONNECTION WITH THE PROPOSED ERECTION OF AN AUTOMATIC CAR WASH AT THE LOCATION SHOWN THEREON. SAME ARE THE EXCLUSIVE PROPERTY OF MACNEIL WASH SYSTEMS LTD. AND ARE SUBJECT TO RETURN UPON DEMAND. BY THE ACCEPTANCE HEREOF, THE PROSPECTIVE CUSTOMER THEREBY AGREES NOT TO DIVULGE, USE OR COPY THE SAME WITHOUT THE WRITTEN CONSENT OF MACNEIL WASH SYSTEMS LTD.
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R8			
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R0	SJvN	ISSUED FOR PRELIMINARY REVIEW	07/06/2016

REVISION

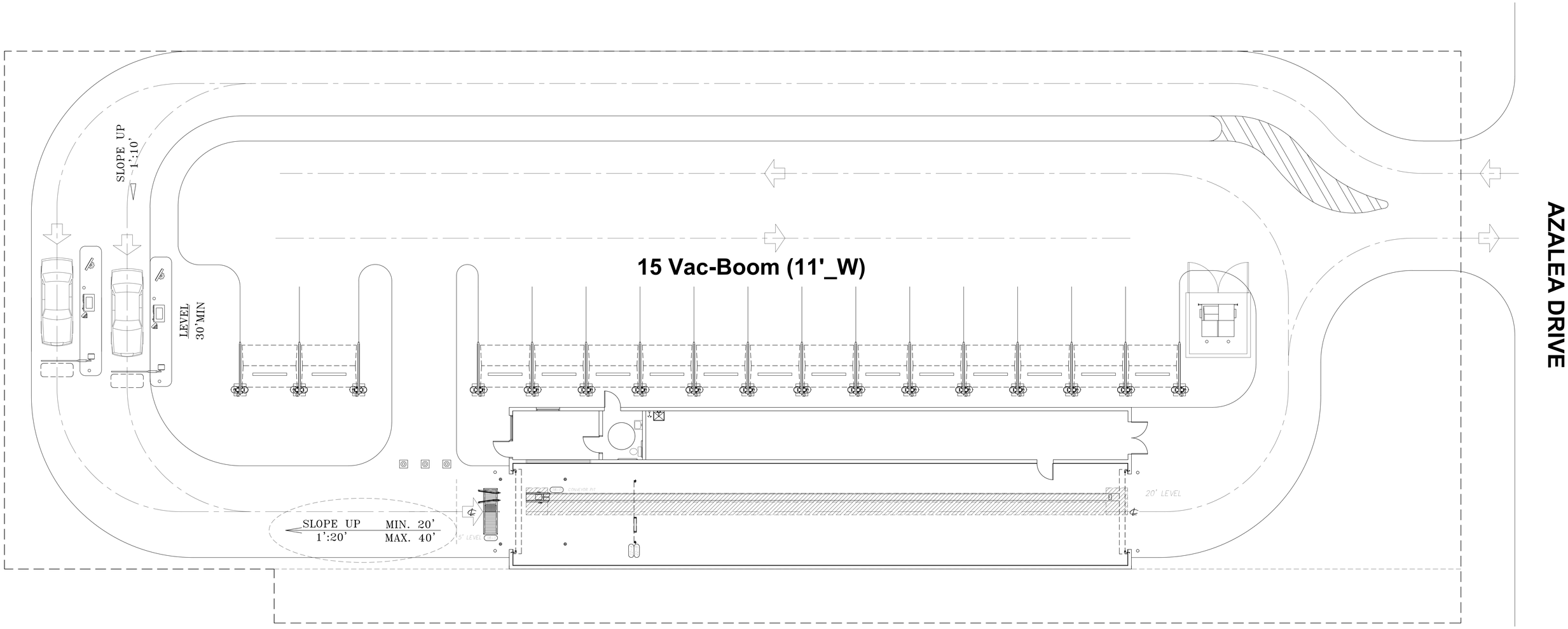
MACNEIL
90 WELHAM ROAD,
BARRIE ONTARIO,
L4N 8Y4
CANADA

CUSTOMER: CLARK OIL COMPANY CAR WASH
WAYNESBORO, MS

TITLE: TITLEPAGE

SCALE: N.T.S.
DATE: JUN. 2017
DRAWN BY: SJvN
CHK'D BY:

DRAWING REVISION: R0
DRAWING NUMBER: SE17-079-TP



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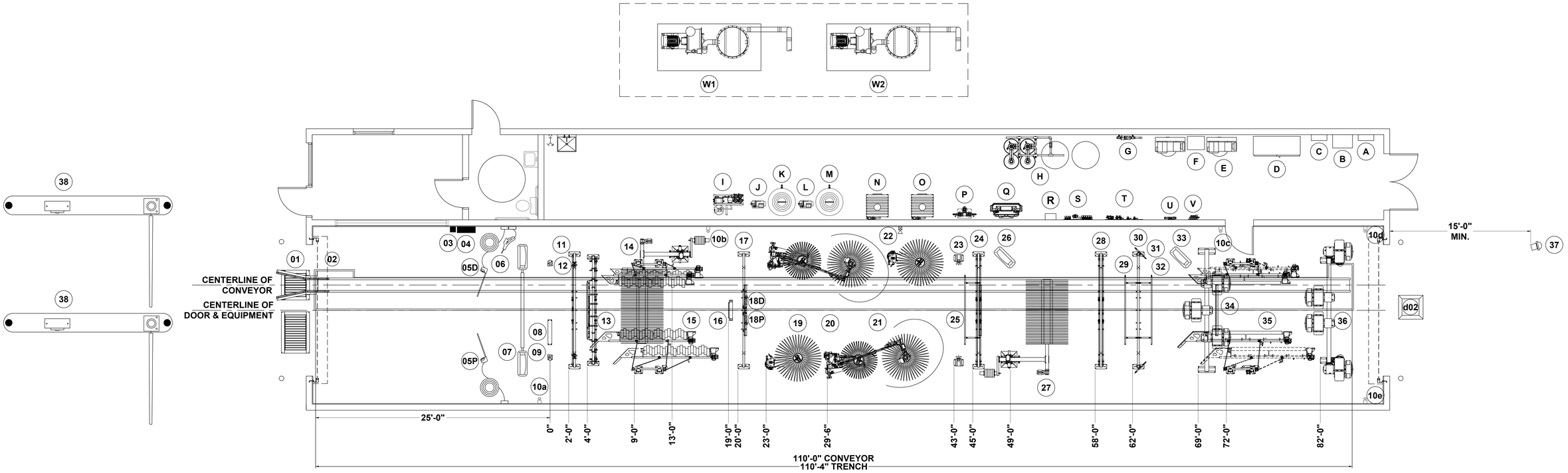
CUSTOMER: CLARK OIL COMPANY CAR WASH
WAYNESBORO, MS

TITLE: SITE LAYOUT
KEY PLAN

SCALE: N.T.S.
DATE: JUN. 2017
DRAWN BY: SJvN
CHK'D BY:

DRAWING REVISION: R0
DRAWING NUMBER: SE17-079-S1



WASH BAY EQUIPMENT

ITEM #	EQUIPMENT DESCRIPTION	MODEL	NOTES-L1
01	CORRELATOR FOR XR1000		
02	CONVEYOR - HYDRAULIC	XR1000-HY	110' RWP (40"ROLLER SPACING)
d02	ANTI-COLLISION		
03	MANUAL ROLLER UP BUTTON		
04	MENU STATION	PBS4000	
05	PREP-GUNS (DS & PS)		
06	BUG PREP APPLICATOR		
07	GRAND ENTRANCE ARCH		
08	MAT SWITCH		DETECTS LOCATION OF TIRE
09	PHOTO EYES		
10	EMERGENCY STOP BUTTONS		
11	VERSA ARCH #1	RW111W	PRESOAK
12	CHEMICAL TIRE APPLICATOR	CTA	
13	CUSTOM ARCH #1		CASCADE DROP FOAMER & 288 LIGHT STORM
14	TOP BRUSH - 94 INCH	RS1000	
15	WHEEL BOSS	MW2000	
16	UNDER CHASSIS SPRAY	RW100	
17	CUSTOM ARCH #2		ELEPHANT EAR QUAD FOAMER & 288 LED LIGHT STORM
18	SINGLE BANANA FOAMERS (DS & PS)		TO BE MOUNTED BY COMPLETE CAR WASH
19	HIGH SIDE BRUSHES	RS301	
20	LOW SIDE BRUSHES - QUAD PACK	RS400-QP	45" CORE
21	WRAP AROUND BRUSHES - QUAD PACK	RS701-QP	
22	WARNING HORN		
23	WHEEL BLASTER (6-NOZZLE FIXED UNIT)	WB600	
24	VERSA ARCH #2	RW111W	CARNUBA WAX & 288 LED LIGHT STORM
25	RAIN BAR #1	RW112	
26	SIGN - CARNUBA WAX		
27	TOP BRUSH - 82 INCH	RS1000	
28	VERSA ARCH #3		
29	VERSA ARCH #4 - SPOT FREE	RW111W	
30	MIRROR RINSE - SPOT FREE		
31	RAIN BAR #2 - SPOT FREE	RW112	MOUNTED ON FRONT SIDE OF ARCH
32	RAIN BAR #3 - SPOT FREE	RW112	MOUNTED ON REAR SIDE OF ARCH
33	SIGN - TIRE SHINE		
34	DRYER PROBUILD - WIDE ARCH - 3X PRODUCERS		WITH 288 LED LIGHTS
35	GLOSS BOSS	MT2500	
36	DRYER PROBUILD - STANDARD ARCH - 4X PRODUCERS		
37	TRAFFIC LIGHT		
38	GATE & PAY STATIONS WITH RFID		

ITEM $	EQUIPMENT DESCRIPTION	MODEL	NOTES-L1
A	SECONDARY TRANSFORMER		
B	SECONDARY DISTRIBUTION PANEL		
C	MAIN DISTRIBUTION PANEL		
D	MCC 24D PANELS 60W X 72H		
E	AIR COMPRESSORS VERTICAL		
F	AIR DRYER		
G	WATER MAIN - SMALL		
H	WATER SOFTENER		
I	R.O. SYSTEM		(DIAMOND 9000)
J	R.O. REPRESSURIZATION PUMP		
K	R.O. STORAGE TANK		
L	R.O. REJECT PUMP		
M	R.O. REJECT TANK		
N	MAGNUM HIGH PRESSURE PUMP #1	M1000R	FEEDS PREP-GUNS
O	MAGNUM HIGH PRESSURE PUMP #2	M2000R	FEEDS WHEEL BLASTER
P	CHEMICAL PUMPS		
Q	GLOSS BOSS CHEMICAL PANEL		
R	SCENT SHOT		
S	WATER DISTRIBUTION PANEL		
T	AIR CONTROL PANEL		
U	CHEMICAL PANEL - 15-PORT		
V	POWERLOCK AIR PANEL		
W	VACUUMS (2 @ 25HP EACH)		TO BE LOCATED IN VACUUM AREA (LOCATION UNKNOWN)

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WAYNESBORO, MS

TITLE: EQUIPMENT LAYOUT
PLAN VIEW

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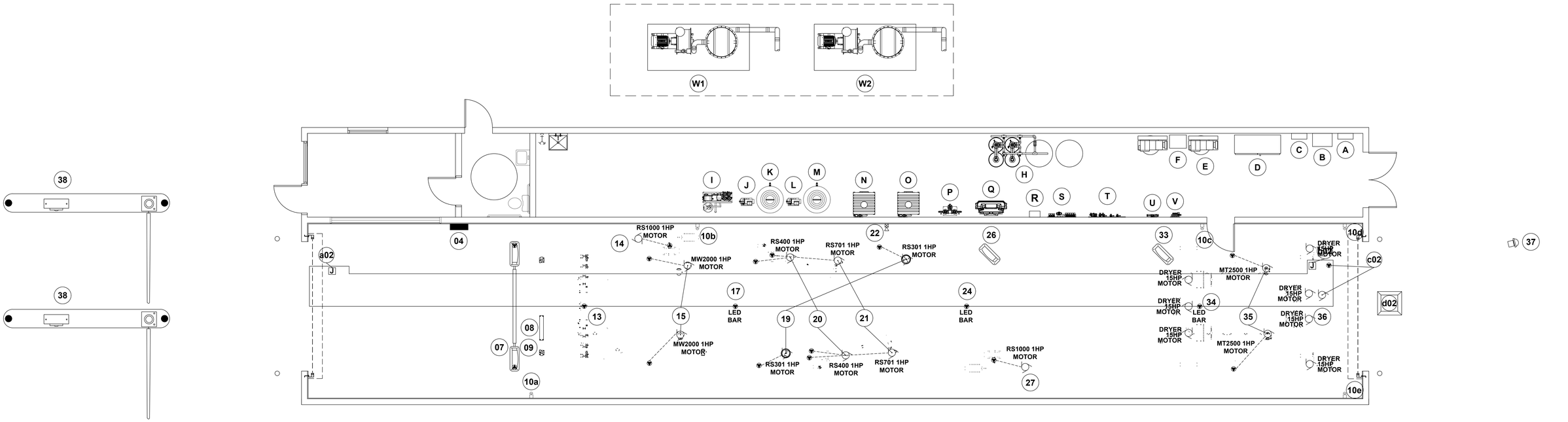

WASH BAY EQUIPMENT											
ITEM #	Name	SOURCE	VOLTS	AMPS	HP	PH	WIRE SIZE	INSTALLED	SUPPLIED	ELECTRICAL	NOTES-E1
a02	CHAIN TENSION & PROXIMITY SWITCH	TC IN MCC	24			1	4X #16 AWG	CWI	CWI	GCE	SEE E2 CONDUIT DRAWINGS FOR DETAILS
b02	PULSE & FLOAT SWITCHES & ANTI-COLLISION	TC IN MCC	24			1	4X #16 AWG	CWI	CWI	GCE	SEE E2 CONDUIT DRAWINGS FOR DETAILS
c02	CONVEYOR MOTOR	VFD IN MCC	460	8	5	3	#12/3 AWG	CWI	CWI	GCE	SEE E2 CONDUIT DRAWINGS FOR DETAILS
d02	ANTI-COLLISION	TC IN MCC	24			1	3X #16 AWG	CWI	CWI	GCE	SEE E2 CONDUIT DRAWINGS FOR DETAILS
04	MENU STATION	TC IN MCC	24			1	4X #16 AWG 3X #16 AWG	CWI	CWI	GCE	1X CAT5E NETWORK CABLE FOR COM. E-STOP WIRED IN SERIES BACK TO MCC
07	GRAND ENTRANCE - WITH LED LIGHTS	TC IN MCC	115	2X 3		1	14X #12/3 AWG	CWI	CWI	GCE	SEE E2 CONDUIT DRAWINGS FOR DETAILS
08	MAT SWITCH	TC IN MCC	24			1	3X #16 AWG	CWI	CWI	GCE	SEE E2 CONDUIT DRAWINGS FOR DETAILS
09	PHOTO EYES	TC IN MCC	24			1	4X #16 AWG 2X #16AWG	CWI	CWI	GCE	SEE E2 CONDUIT DRAWINGS FOR DETAILS
10	EMERGENCY STOP BUTTONS	TC IN MCC	24			1	10X #16 AWG	GCE	GCE	GCE	WIRE ALL E-STOPS IN SERIES BACK TO MCC
13	VERSA ARCH - WITH LED LIGHTS	TC IN MCC	115	1		1	#12/2 AWG	CWI	CWI	GCE	
14	TOP BRUSH - 94 INCH	VFD IN MCC	460	2.9	1	3	#12/3 AWG	CWI	CWI	GCE	USE CONDUCTOR RATED FOR VFD'S
15	WHEEL BOSS	STARTER IN MCC	460	2X 2.9	1	3	2X #12/3 AWG	CWI	CWI	GCE	USE CONDUCTOR RATED FOR VFD'S
17	LED LIGHT BAR	TC IN MCC	115	1		1	#12/2 AWG	CWI	CWI	GCE	
19	HIGH SIDE BRUSHES	VFD IN MCC	460	2X 2.9	1	3	2X #12/3 AWG	CWI	CWI	GCE	USE CONDUCTOR RATED FOR VFD'S
20	LOW SIDE BRUSHES	VFD IN MCC	460	2X 2.9	1	3	2X #12/3 AWG	CWI	CWI	GCE	USE CONDUCTOR RATED FOR VFD'S
21	WRAP AROUND BRUSHES	VFD IN MCC	460	2X 2.9	1	3	2X #12/3 AWG	CWI	CWI	GCE	USE CONDUCTOR RATED FOR VFD'S
22	WARNING HORN	TC IN MCC	115	1		1	#12/2 AWG	GCE	GCE	GCE	
24	LED LIGHT BAR	TC IN MCC	115	1		1	#12/2 AWG	CWI	CWI	GCE	
26	SIGN - CARBUBA WAX	TC IN MCC	115	1		1	#12/2 AWG	GCE	GCE	GCE	
27	TOP BRUSH - 82 INCH	VFD IN MCC	460	2.9	1	3	#12/3 AWG	CWI	CWI	GCE	USE CONDUCTOR RATED FOR VFD'S
33	SIGN - TIRE SHINE	TC IN MCC	115	1		1	#12/2 AWG	GCE	GCE	GCE	
34	DRYER PROBUILD - 3X PRODUCERS	STARTER IN MCC	460	3X 18	3X 15	3	3X #12/3 AWG	CWI	CWI	GCE	USE SPLIT BOLT CONNECTORS AT MOTOR JB WIRE SIZE BASED OFF OF SEPERATE CONDUITS
	LED LIGHT BAR	TC IN MCC	115	1		1	#12/2 AWG	GCE	GCE	GCE	
35	GLOSS BOSS	STARTER IN MCC	460	2X 2.9	1	3	2X #12/3 AWG	CWI	CWI	GCE	USE CONDUCTOR RATED FOR VFD'S
36	DRYER PROBUILD - 4X PRODUCERS	STARTER IN MCC	460	4X 18	4X 15	3	4X #12/3 AWG	CWI	CWI	GCE	USE SPLIT BOLT CONNECTORS AT MOTOR JB WIRE SIZE BASED OFF OF SEPERATE CONDUITS
37	TRAFFIC LIGHT	TC IN MCC	115	4		1	2X #12/2 AWG	CWI	CWI	GCE	SEE E2 CONDUIT DRAWINGS FOR DETAILS
38	ENTRY SYSTEM WITH GATE	SEE NOTE →									SEE MANUFACTURERS SPECS FOR DETAILS

ITEM #	Name	SOURCE	VOLTS	AMPS	HP	PH	WIRE SIZE	INSTALLED	SUPPLIED	ELECTRICAL	NOTES-E1
A	SECONDARY DISTRIBUTION PANEL	STX	240/115			1	SEE NOTE	CWI	CWI	GCE	ELECTRICIAN TO DETERMINE WIRE SIZE
B	SECONDARY TRANSFORMER	MDP	460-240			3	SEE NOTE	CWI	CWI	GCE	ELECTRICIAN TO DETERMINE WIRE SIZE
C	MAIN DISTRIBUTION PANEL	LDC	460			3	SEE NOTE	CWI	CWI	GCE	ELECTRICIAN TO DETERMINE WIRE SIZE
D	MCC 24D PANEL 72W X 72H	MDP	460	371 FLA		3	SEE NOTE	CWI	CWI	GCE	ELECTRICIAN TO DETERMINE WIRE SIZE
E	AIR COMPRESSORS VERTICAL	MDP	460	SEE NOTE				CWI	CWI	GCE	SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS
F	AIR DRYER	SDP	115	SEE NOTE				CWI	CWI	GCE	SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS
H	WATER SOFTENER	SDP	SEE NOTE →								SEE MANUFACTURERS SPECS FOR DETAILS
I	RO PRODUCTION UNIT RO SYSTEM CONTROLS	SDP TC IN MCC	SEE NOTE →								SEE MANUFACTURERS SPECS FOR DETAILS ON THE DIAMOND 9000 R.O. SYSTEM
J	RO REPRESSURIZATION PUMP	SDP									
K	RO STORAGE TANK	RO UNIT									
L	RO REJECT PUMP	SDP									
M	RO REJECT TANK	R.O. UNIT									
N	MAGNUM HIGH PRESSURE PUMPS	STARTER IN MCC	460	11.9	7.5	3	#12/3 AWG	CWI	CWI	GCE	
	LOW LEVEL SWITCH	TC IN MCC	24			1	3X #16 AWG	CWI	CWI	GCE	
O	MAGNUM HIGH PRESSURE PUMPS	STARTER IN MCC	460	21	15	3	#12/3 AWG	CWI	CWI	GCE	
	LOW LEVEL SWITCH	TC IN MCC	24			1	3X #16 AWG	CWI	CWI	GCE	
P	CHEMICAL PUMPS - 2 + 1 SPARE	STARTER IN MCC	460	2X 3	2X 4.8	3	2X #12/3 AWG	CWI	CWI	GCE	SEE REFERENCE DRAWING DRAWING R3 FOR DETAILS
Q	CHEMICAL PANEL - 15 PORTS	STARTER IN MCC	24			3	9X #16 AWG	CWI	CWI	GCE	SEE REFERENCE DRAWING DRAWING R3 FOR DETAILS
R	SCENT SHOT	SEE NOTE →									SEE MANUFACTURERS SPECS FOR DETAILS
S	WATER PANEL	TC IN MCC	24			1	16X #16 AWG	CWI	CWI	GCE	
T	AIR CONTROL PANEL	TC IN MCC	24			1	24X #16 AWG	CWI	CWI	GCE	
U	GLOSS BOSS CHEMICAL PANEL	TC IN MCC	24			1	4X #16 AWG	CWI	CWI	GCE	
V	POWERLOCK AIR PANEL	TC IN MCC	24			1	25X #16 AWG	CWI	CWI	GCE	
W	MAC VAC	STARTER IN MCC	460	2 X 27	2X 20	3	SEE NOTE →	CWI	CWI	GCE	W

IMPORTANT NOTE:
EVERY MOTOR FED FROM A VFD MUST HAVE IT'S OWN DEDICATED CONDUIT. CONDUCTORS USED TO FEED MOTORS MUST BE RATED FOR USE WITH VFD'S. FAILURE TO MEET THIS REQUIREMENT WILL VOID THE WARRANTY ON BOTH THE EFFECTED MOTOR AND VFD !

ALL EQUIPMENT MUST BE PROPERLY GROUNDED & BONDED WHERE APPLICABLE!

DENOTATIONS

CWI	=	CAR WASH INSTALLER
GCE	=	GENERAL CONTRACTING ELECTRICIAN
TC	=	TUNNEL CONTROLLER
MCC	=	MASTER CONTROL CENTER
MDP	=	MAIN DISTRIBUTION PANEL
SDP	=	SECONDARY DISTRIBUTION PANEL
STX	=	SECONDARY TRANSFORMER
RO	=	REVERSE OSMOSI
VFD	=	VARIABLE FREQUENCY DRIVE
JB	=	JUNCTION BOX

LEGEND

- EMRGENCY STOP BUTTON SPEC. ALLEN BRADLEY 800T SERIES SINGLE HOLE ENCLOSURE C/W RED FX60X MUSHROOM HEAD BUTTON & EMERGENCY STOP TAG
- WEATHER PROOF WARNING HORN SPEC. EDWARDS 876-G5 24V WEATHER PROOF HORN
- NEMA JUNCTION BOX
- MOTOR - 3 PHASE
- DIRECT CONNECTION
- CONDUCTOR
- RECEPTACLE

GENERAL NOTES FOR G.C ELECTRICIAN:

1. THE WORK SHALL CONSIST OF FURNISHING LABOR, EQUIPMENT AND MATERIALS TO PROVIDE THE COMPLETE INTEGRATED AND PROPER 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 CONTROL POWER PER THESE DRAWINGS AND MACNEIL'S MANUALS.
3. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL CODE. 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 N.E.M.A; A.N.S.I; U.L ETC.
5. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEM. FIELD VERIFICATIONS OF DIMENSION SHOULD BE DIRECTED. G.C ELECTRICIAN IS RESPONSIBLE FOR DETERMINING BEST ROUTING OF ALL UNDERGROUND AND ABOVE GROUND ELECTRICAL RUNS.
6. G.C ELECTRICIAN SHOULD COORDINATE HIS WORK WITH THAT OF OTHER TRADES SO AS TO AVOID INTERFERENCE.
7. G.C ELECTRICIAN TO BE RESPONSIBLE FOR NECESSARY PERMITS AND INSPECTIONS FROM THE LOCAL AUTHORITIES.
8. G.C ELECTRICIAN TO PROVIDE ALL DISCONNECTS, CONDUITS, WIRE AND GUTTERS ETC, TO EFFECT A TOTAL OPERATIONAL SYSTEM AS OUTLINED.
9. G.C ELECTRICIAN TO PROVIDE AND INSTALL EMERGENCY STOP BUTTONS AND WARNING HORN FOR TUNNEL SYSTEM.
10. ONLY FULLY WATERPROOF (NEMA4X) ELECTRICAL ENCLOSURES TO BE USED.
11. G.C ELECTRICIAN TO FIELD WIRE ALL 3 PHASE MOTORS FROM MOTOR CONTROL CENTER (MCC) TO EQUIPMENT MOTORS. MUST VERIFY CORRECT MOTOR ROTATION.
12. G.C ELECTRICIAN TO FIELD WIRE ALL FLOAT SWITCHES, START /STOP BUTTONS, ALARMS AND LIGHT BARS.
13. G.C ELECTRICIAN TO FIELD WIRE TIRE SWITCH, PHOTO EYES, ROLLER UP EYES, ANTI COLLISION PAD AND OTHER INPUT SIGNALS.
14. WHERE CONDUITS ENTER CONVEYOR TRENCH, THE INVERT IS TO BE 12" BELLOW FINISHED FLOOR.
15. ALL STUB-UPS TO BE 1" FROM WALL UNLESS OTHERWISE INDICATED.
16. SPLIT BOLTS TO BE REQUIRED ON ALL MOTOR CONNECTIONS FOR BLOWERS, AIR COMPRESSOR, HIGH PRESSURE PUMPS AND ANY MOTORS OVER 5 H.P.
17. ALL MOTOR AND CONTROL WIRES TO BE THHN STRANDED OR EQUIVALENT . NO SOLID WIRE WILL BE ACCEPTED FOR ANY ASPECT OF THE CAR WASH EQUIPMENT. BASED ON 75 CELSIUS, CU WIRING.
18. ALL STRUT, CLAMPS AND FASTENER UTILIZED WITHIN THE TUNNEL WILL BE MADE OF A NON- CORROSIVE MATERIAL. STRUT SHALL BE ALUMINUM, STAINLESS STEEL OR FIBERGLASS. CLAMPS SHALL BE STAINLESS STEEL, PVC OR COMPOSITE. ALL FASTENERS SHALL BE STAINLESS STEEL.
19. ALL CONDUCTORS FROM VARIABLE FREQUENCY DRIVES TO MOTORS TO BE VFD RATED, BELDEN 29501 MULTI.
20. DO NOT DRILL THROUGH OR PIERCE THE TOP OF THE MCC CABINET. FAILURE TO COMPLY WITH THIS WARNING WILL VOID WARRANY.

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CUSTOMER: CLARK OIL COMPANY CAR WASH WAYNESBORO, MS

TITLE: ELECTRICAL LAYOUT PLAN VIEW

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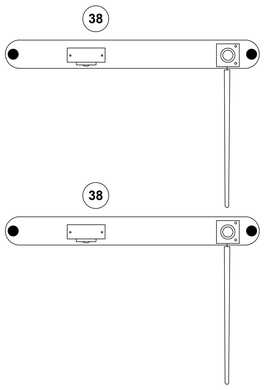

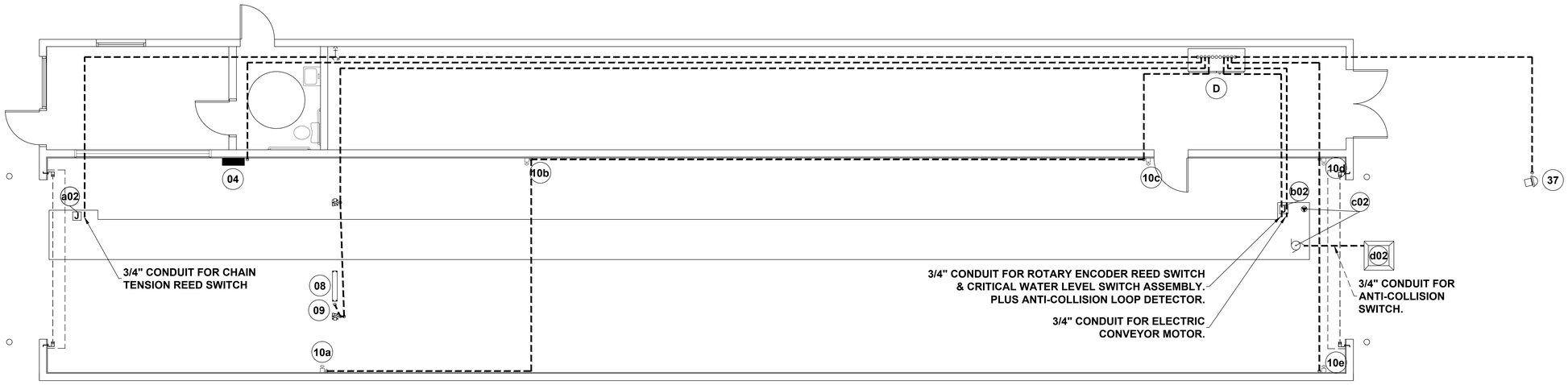

WASH BAY EQUIPMENT

ITEM #	ELECTRICAL CONDUIT RAN FROM	ITEM #	ELECTRICAL CONDUIT RAN TO	CONDUIT SIZE	NOTES-E2
a02	CONVEYOR TRENCH TO RUN IN SAME CONDUIT AS CHAIN TENSION & PROXIMITY SWITCH	D	MCC	3/4"	SEE DRAWING T2 SECTIONS A-A & B-B FOR CONDUIT DETAILED VIEWS.
04	MENU STATION EMERGENCY STOP BUTTON	D	MCC	3/4"	
10a	EMERGENCY STOP BUTTON	10b	EMERGENCY STOP BUTTON	3/4"	
10b	EMERGENCY STOP BUTTON	10c	EMERGENCY STOP BUTTON	3/4"	
10c	EMERGENCY STOP BUTTON	D	MCC	3/4"	
08	MAT SWITCH	09P	TO PS PHOT EYE CONDUIT	3/4"	
09P	PHOTO EYES PS	09D	PHOTO EYES DS	3/4"	
09D	PHOTO EYES DS	D	MCC	3/4"	
10e	EMERGENCY STOP BUTTON	10d	EMERGENCY STOP BUTTON	3/4"	
10d	EMERGENCY STOP BUTTON	D	MCC	3/4"	
b02	PULSE & FLOAT SWITCHES & ANTI-COLLISION	D	MCC	3/4"	
c02	CONVEYOR MOTOR	D	MCC	2"	SEE DRAWING T2 SECTIONS E-E FOR CONDUIT DETAILED VIEWS.
d02	ANTI-COLLISION	02	CONVEYOR TRENCH	3/4"	
37	TRAFFIC LIGHT	D	MCC		
38	ENTRY SYSTEM WITH GATE	SEE NOTE →			SEE MANUFACTURERS SPEC FOR DETAILS

IMPORTANT NOTE:

ALL PVC SLEEVES ENTERING CONVEYOR TRENCH TO BE 12" BELOW FINISHED FLOOR.

ALL CONDUITS MUST USE SWEEPING 90 DEGREE ELBOWS.

PROPER CONDUIT ROUTING MUST BE DETERMINED ON SITE. THIS LAYOUT IS FOR VISUAL PURPOSES ONLY.

\\LINUXSERVER\sales_eng\Distributors\Complete Car Wash\SE17-079 Clark Oil Company

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No.	By	Description	Date
R8			
R7			
R6			
R5			
R4			
R3			
R2			
R1			
R0	SJvN	ISSUED FOR PRELIMINARY REVIEW	07/06/2016

REVISION

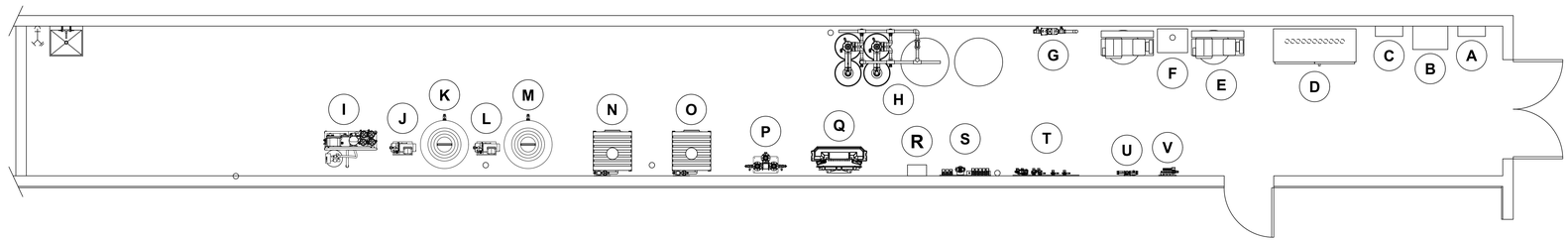
MACNEIL
90 WELHAM ROAD,
BARRIE ONTARIO,
L4N 8Y4
CANADA

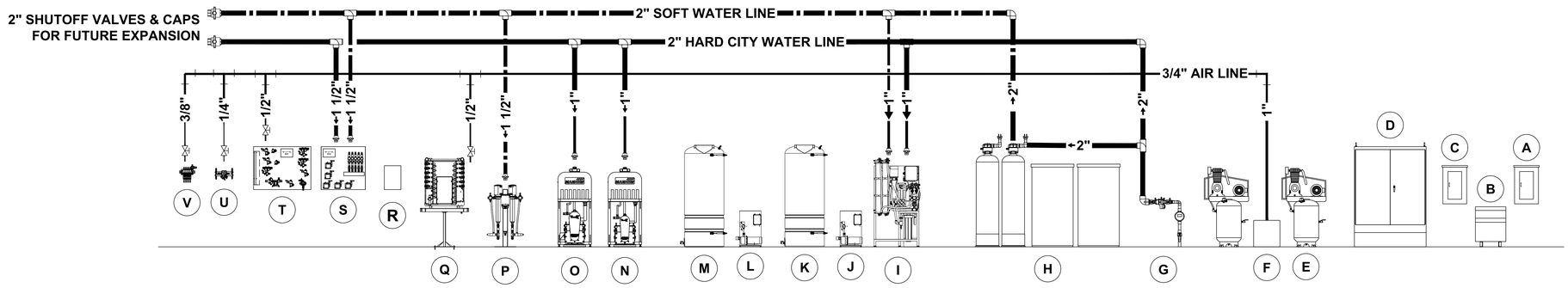
CUSTOMER: CLARK OIL COMPANY CAR WASH WAYNESBORO, MS

TITLE: ELECTRICAL LAYOUT UNDERGROUND CONDUITS

SCALE: N.T.S.
DATE: JUN. 2017
DRAWN BY: SJvN
CHK'D BY:

DRAWING REVISION: R0
DRAWING NUMBER: SE17-079-E2





MECHANICAL ROOM PLUMBING SCHEDULE								
ITEM# FROM	EQUIPMENT FROM	ITEM# TO	EQUIPMENT TO	SUPPLIED BY	INSTALLED BY	PLUMBED BY	PIPE OR TUBE SIZE	NOTES
E	AIR COMPRESSORS	F	AIR DRYER	CWI	CWI	PLUMBER	3/4"	IN / OUT
E/F	AIR COMPRESSORS/AIR DRYER	T	AIR CONTROL PANEL	CWI	CWI	PLUMBER	1/2"	
		Q	CHEMICAL PANELS (2X)	CWI	CWI	PLUMBER	2X 1/2	
		U	GLOSS BOSS CHEMICAL PANEL	CWI	CWI	PLUMBER	1/4"	
		V	POWER LOCK AIR PANEL	CWI	CWI	PLUMBER	3/8"	
CITY WATER MAIN		V	WATER MAIN	PLUMBER	PLUMBER	PLUMBER	2"	
V	WATER MAIN	S	WATER CONTROL PANEL	CWI	CWI	PLUMBER	1 1/2	
		O/N	MAGNUM HI-PRESSURE PUMPS	CWI	CWI	PLUMBER	3X 1"	
		I/J/K/L/M	RO SYSTEM	CWI	CWI	PLUMBER	1"	SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS
		H	WATER SOFTENER	CWI	CWI	PLUMBER	2"	SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS
U	WATER SOFTENER	I/J/K/L/M	RO SYSTEM	SEE NOTE →				SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS
		P	CHEMICAL PUMPS	CWI	CWI	PLUMBER	1 1/2"	

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REVISION

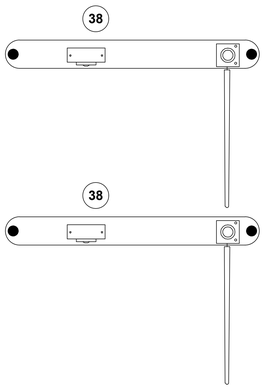
MACNEIL
90 WELHAM ROAD,
BARRIE ONTARIO,
L4N 8Y4
CANADA

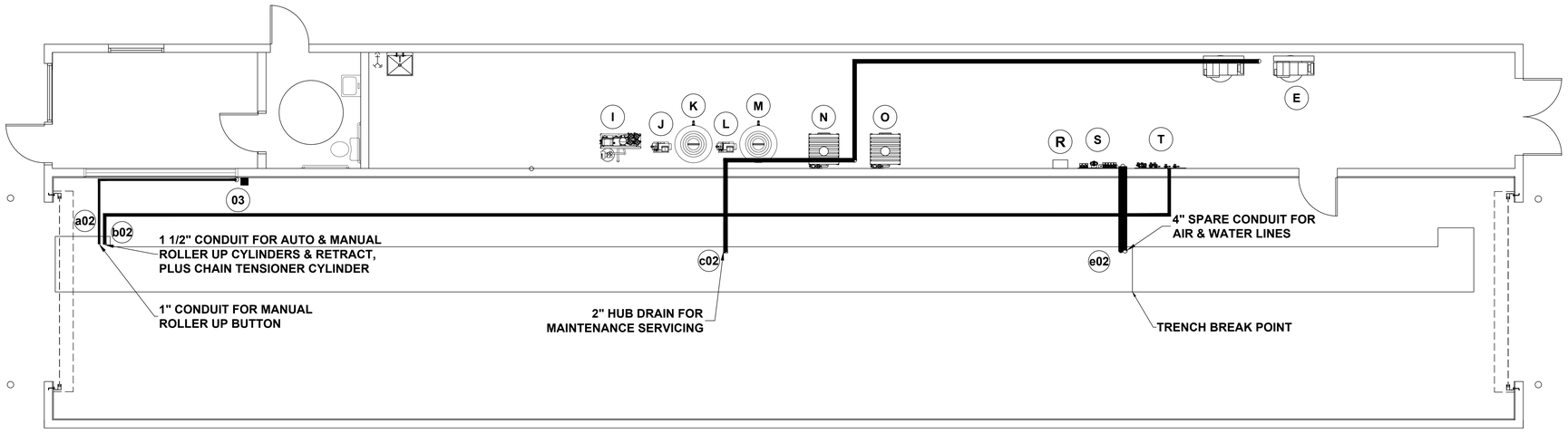
CUSTOMER: CLARK OIL COMPANY CAR WASH
WAYNESBORO, MS

TITLE: PLUMBING LAYOUT
MECHANICAL ROOM ELEVATION VIEW

SCALE: N.T.S.
DATE: JUN. 2017
DRAWN BY: SJvN
CHK'D BY:

DRAWING REVISION: R0
DRAWING NUMBER: SE17-079-P1





WASH BAY EQUIPMENT

ITEM #	PLUMBING PIPE RAN FROM	ITEM #	PLUMBING PIPE RAN TO	PIPE SIZE	NOTES-P2
T	AIR CONTROL PANEL	b02	AUTO ROLLER UP	1 1/2"	
a02	MANUAL ROLLER UP	03	MANUAL ROLLER UP BUTTON	1"	
03	MANUAL ROLLER UP BUTTON	T	AIR CONTROL PANEL	1 & 1 1/2"	VIA a02 & b02 CONDUITS
E	AIR COMPRESSORS	O/N	MAGNUM HIGH PRESSURE PUMPS	2"	
O/N	MAGNUM HIGH PRESSURE PUMPS	K/M	R.O. STORAGE TANKS	2"	
K/M	R.O. STORAGE TANKS	c02	CONVEYOR TRENCH TO RECLAIM	2"	
S	WATER PANEL	e02	AUXILIARY CONDUIT FOR SPARE LINES	4"	

IMPORTANT NOTE:

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REVISION

MACNEIL
90 WELHAM ROAD,
BARRIE ONTARIO,
L4N 8Y4
CANADA

CUSTOMER: CLARK OIL COMPANY CAR WASH WAYNESBORO, MS

TITLE: PLUMBING LAYOUT UNDERGROUND DRAIN PIPES

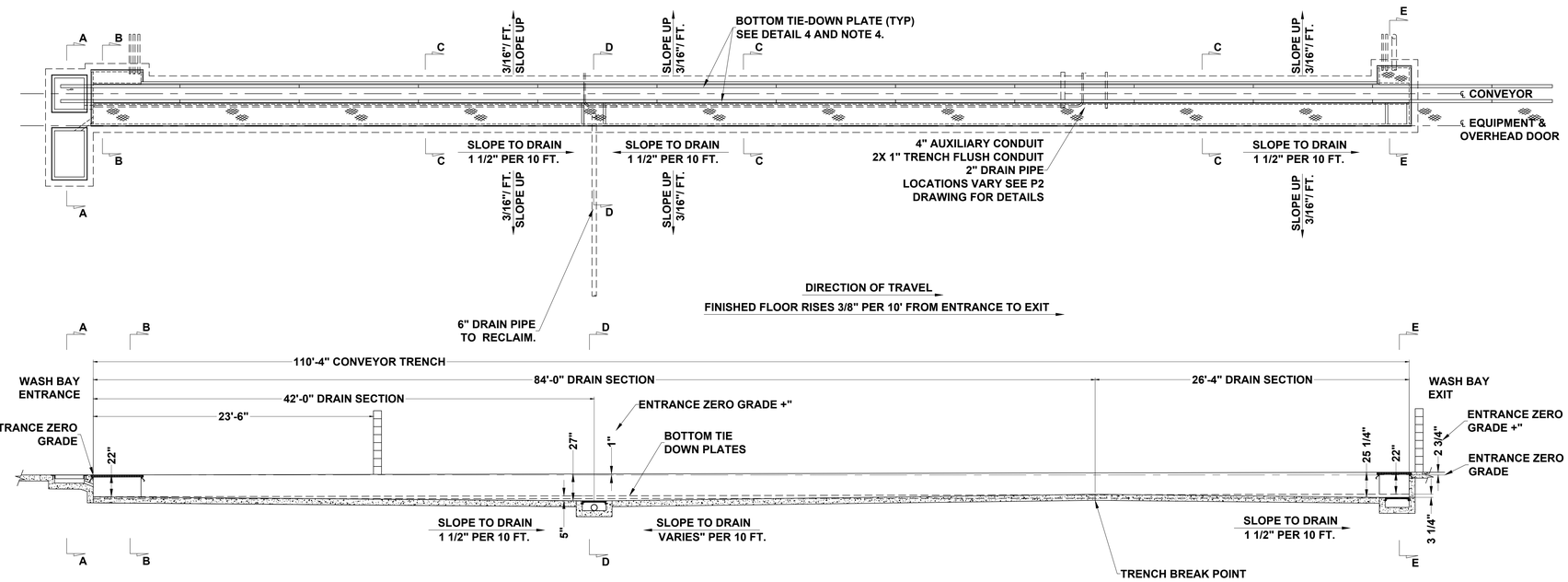
SCALE: N.T.S.
DATE: JUN. 2017
DRAWN BY: SJvN
CHK'D BY:

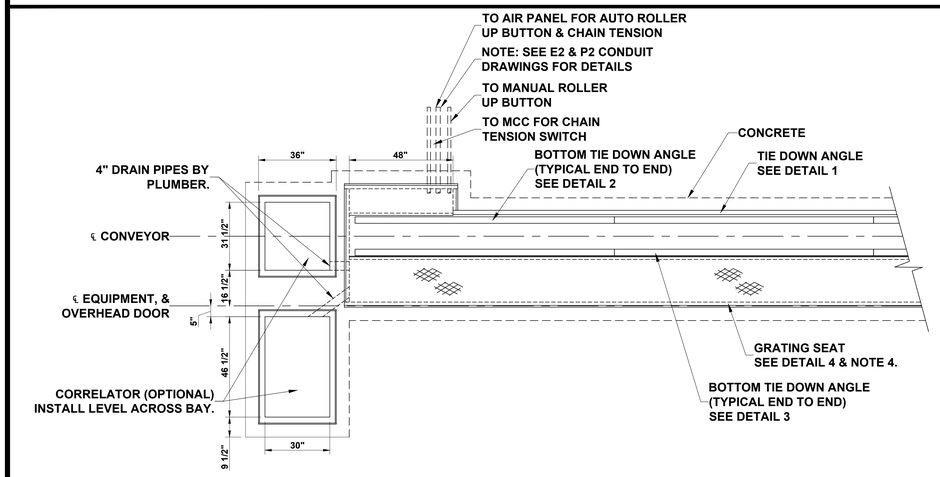
DRAWING REVISION: R0
DRAWING NUMBER: SE17-079-P2

ENTRANCE GRADING
SLOPE ENTRANCE PAD DOWN AT 1% FOR AT LEAST 20' PRIOR CORRELATOR

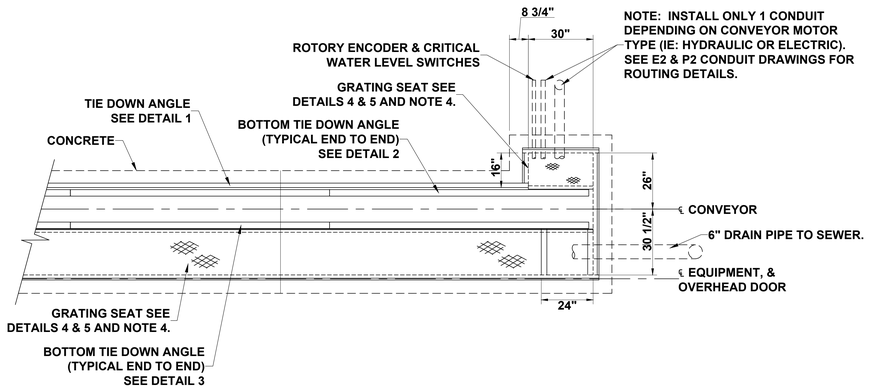
CONVEYOR TRENCH TOP & ELEVATION VIEWS

EXIT PAD GRADING
EXIT PAD TO REMAIN FLAT FOR 5' AND THEN SLOPE AWAY FROM THE BUILDING AT A MINIMUM OF 1 % WITH A MAXIMUM OF 2% FOR THE NEXT 15'





SECTION A-A
CONVEYOR ENTRANCE END DETAILS



SECTION E-E
CONVEYOR EXIT END DETAILS

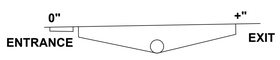
NOTES:

1. THE DRAIN PIPE SIZES AND SLOPE MEASUREMENTS ON THIS DRAWING ARE FOR RECOMMENDATION PURPOSES ONLY. THE NATIONAL AND LOCAL CODES ARE TO BE ABIDE BY AND HAVE PRECEDENCE OVER THIS DRAWING.
2. THE FINISHED FLOOR MUST SLOPE UPWARD FROM ENTRANCE TO EXIT A MINIMUM OF 3/8" PER 10' FEET FOR THE ENTIRE LENGTH OF THE CONVEYOR.
3. THE FINISHED FLOOR MUST SLOPE UPWARD 3/16" PER FOOT FROM EACH SIDE OF THE CONVEYOR PIT TO BOTH SIDES OF THE INSIDE WALLS.
4. ALL CONCRETE TO BE A MINIMUM OF 6" THICK.
5. FINISH FLOOR TO HAVE A ROUGH TEXTURE. ie. BROOM FINISH CONCRETE SO THAT BROOM LINES RUN PERPENDICULAR TO CONVEYOR TRENCH. (MUST HAVE NON SKID SURFACE.)
6. ALL TIE DOWN PLATES, TIE DOWN ANGLES, DIAMOND PLATE SEAT STEEL, RE BAR, GRATING, DRAINS, CHASE WAYS, PLASTIC SLEEVES AND CONDUIT ARE THE RESPONSIBILITY OF THE CUSTOMER/CONCRETE CONTRACTOR.
7. ALL CONDUIT MAY BE LOCATED ON EITHER SIDE OF THE CONVEYOR TRENCH TO SUIT LOCATION OF MECHANICAL ROOM AND MCC.
8. DRAINS CAN BE ON EITHER SIDE OF TRENCH DEPENDING ON LOCATION OF SEDIMENT PIT, WATER RECLAIM PIT OR SEWER.
9. ALL WIRING AND PLUMBING CONDUIT ENTERING THE PIT TO BE LOCATED SO THAT THEIR PENETRATION ARE 12" BELOW FINISHED FLOOR.
10. THE FINISHED FLOOR IN THE EQUIPMENT ROOM MUST BE HIGHER THAN THE FINISHED FLOOR IN THE WASH BAY TO PREVENT WATER ENTERING THE ROOM.
11. THE GRATE MEASUREMENTS ARE FOR REFERENCE ONLY. EXACT MEASUREMENTS WILL BE DETERMINED DURING INSTALLATION.

IMPORTANT NOTE:

DIRECTION OF CAR TRAVEL

NOTE:
FINISHED FLOOR TO RISE 3/8" PER 10'
FOR ENTIRE LENGTH FROM ENTRANCE TO EXIT.



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REVISION

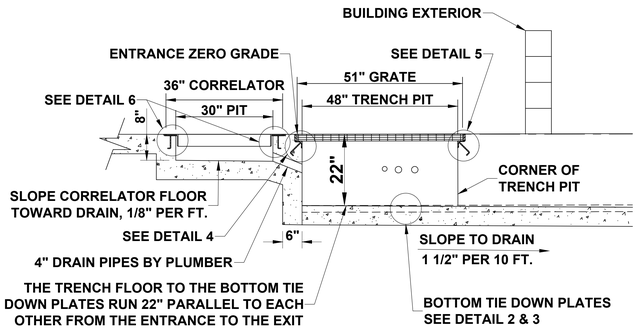
MACNEIL
90 WELHAM ROAD,
BARRIE ONTARIO,
L4N 8Y4
CANADA

CUSTOMER: CLARK OIL COMPANY CAR WASH
WAYNESBORO, MS

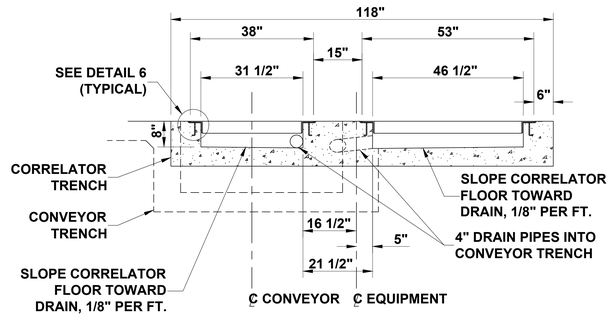
TITLE: SHELF TRENCH PLAN
PLAN & ELEVATION VIEW

SCALE: N.T.S.
DATE: JUN. 2017
DRAWN BY: SJvN
CHK'D BY:

DRAWING REVISION: 0
DRAWING NUMBER: SE17-079-T1

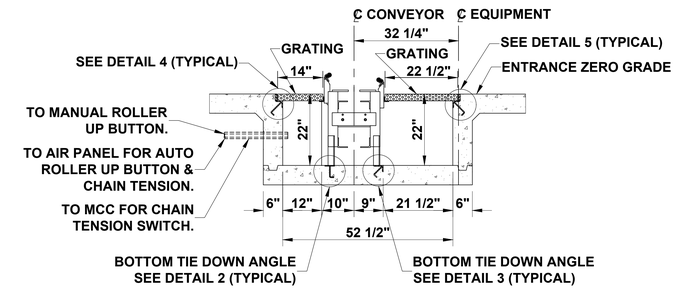


SECTION A-A & B-B
CORRELATOR PIT & ENTRANCE END

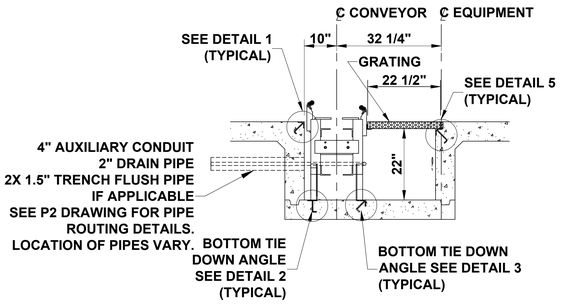


SECTION A-A
CORRELATOR PIT

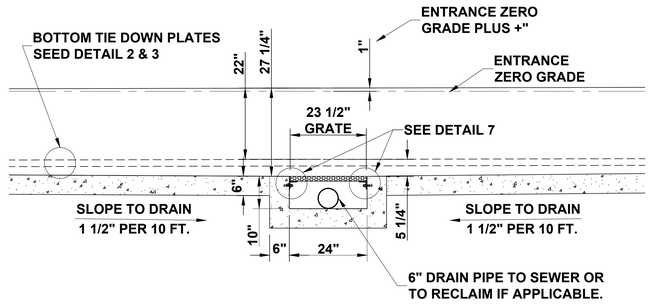
NOTE: SEE E2 & P2 CONDUIT DRAWINGS FOR ROUTING DETAILS.



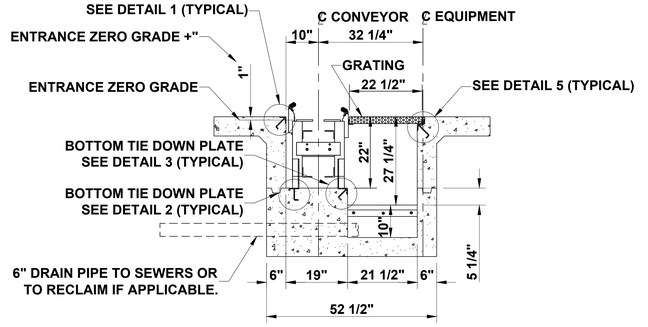
SECTION B-B
ENTRANCE END



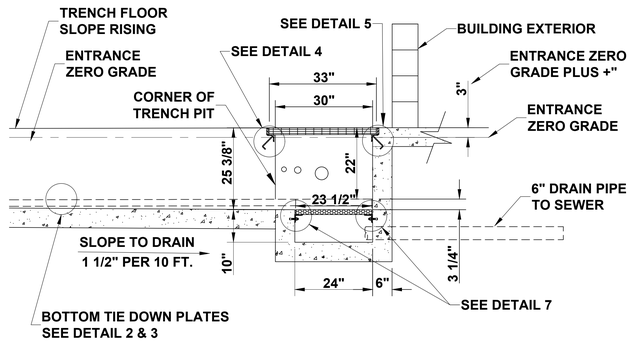
SECTION C-C
CENTER SECTION & BREAK POINT



SECTION D-D
RECLAIM DRAIN SECTION

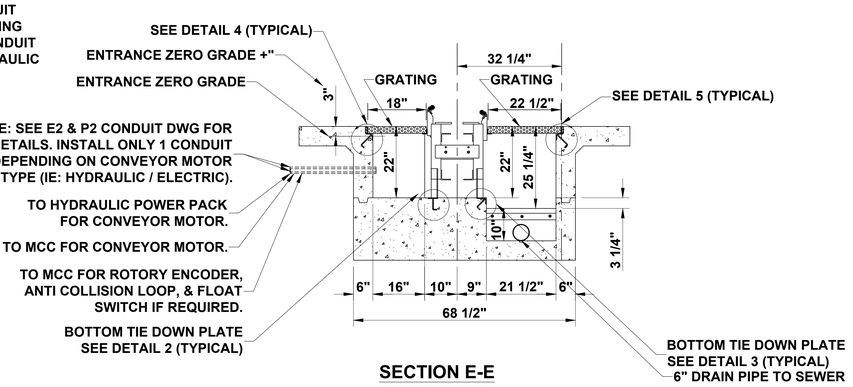


SECTION D-D
RECLAIM DRAIN SECTION

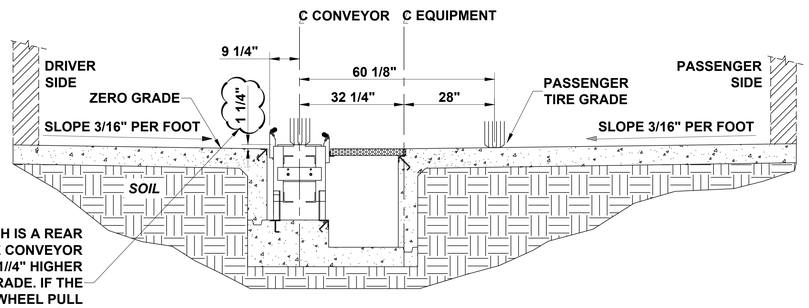


SECTION E-E
EXIT END

NOTE: SEE E2 CONDUIT DRAWING FOR ROUTING DETAILS. SEE P2 CONDUIT DRAWING FOR HYDRAULIC FLUID CONDUIT IF APPLICABLE.



SECTION E-E
EXIT END



CONVEYOR INSTALLATION DETAILS

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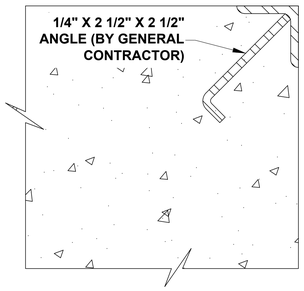
REVISION

MACNEIL
90 WELHAM ROAD,
BARRIE ONTARIO,
L4N 8Y4
CANADA

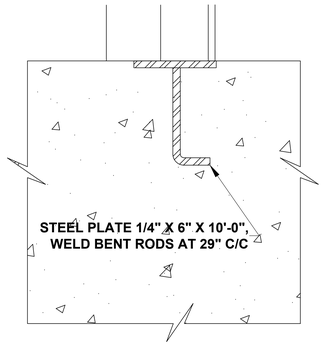
CUSTOMER: CLARK OIL COMPANY CAR WASH WAYNESBORO, MS

TITLE: SHELF TRENCH DETAILS CROSS SECTION ELEVATIONS

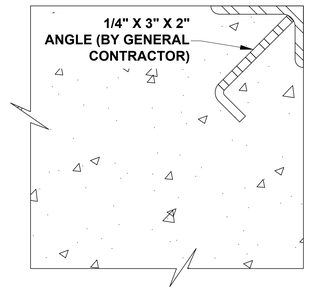
SCALE: N.T.S.
DATE: JUN. 2017
DRAWN BY: SJvN
CHK'D BY:
DRAWING REVISION: 0
DRAWING NUMBER: SE17-079-T2



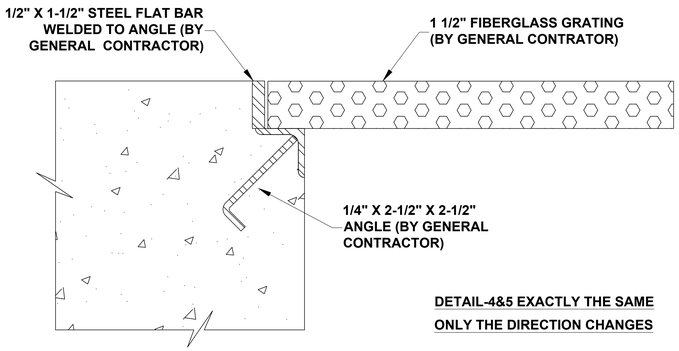
DETAIL-1
TIE DOWN ANGLE



DETAIL-2
BOTTOM TIE DOWN ANGLE

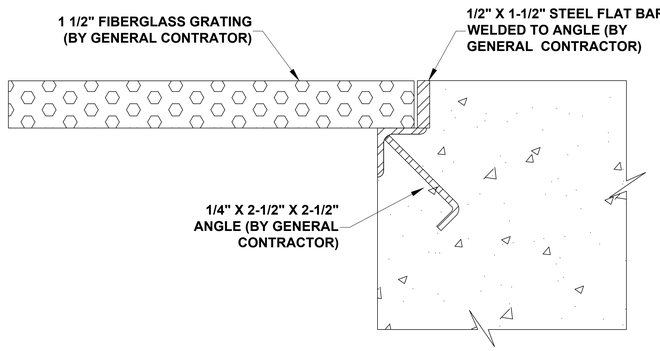


DETAIL-3
BOTTOM TIE DOWN ANGLE

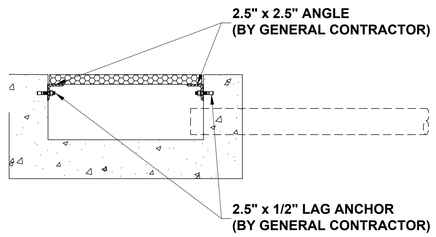


DETAIL-4&5 EXACTLY THE SAME
ONLY THE DIRECTION CHANGES

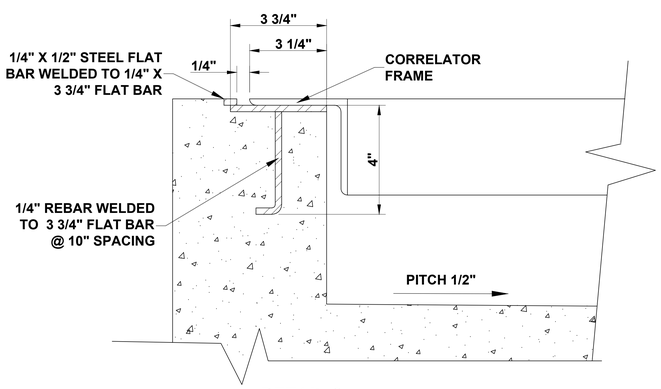
DETAIL-4
GRATING SEAT



DETAIL-5
GRATING SEAT



DETAIL-7
SUMP PIT GRATE SUPPORT ANGLE



DETAIL-6
CORRELATOR LIP ANGLE

\\LINUXSERVER\sales_eng\Distributors\Complete Car Wash\SE17-079 Clark Oil Company

THE PLAN BEARING THIS LEGEND AND THE ACCOMPANYING SPECIFICATIONS HAVE BEEN PREPARED BY MACNEIL WASH SYSTEMS LTD. FOR THE PARTY WHOSE NAME APPEARS IN THE TITLE BOX IN CONNECTION WITH THE PROPOSED ERECTION OF AN AUTOMATIC CAR WASH AT THE LOCATION SHOWN THEREON. SAME ARE THE EXCLUSIVE PROPERTY OF MACNEIL WASH SYSTEMS LTD. AND ARE SUBJECT TO RETURN UPON DEMAND. BY THE ACCEPTANCE HEREOF, THE PROSPECTIVE CUSTOMER THEREBY AGREES NOT TO DIVULGE, USE OR COPY THE SAME WITHOUT THE WRITTEN CONSENT OF MACNEIL WASH SYSTEMS LTD.
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No.	By	Description	Date
R8			
R7			
R6			
R5			
R4			
R3			
R2			
R1			
R0	SJvN	ISSUED FOR PRELIMINARY REVIEW	07/06/2016

REVISION

MACNEIL
90 WELHAM ROAD,
BARRIE ONTARIO,
L4N 8Y4
CANADA

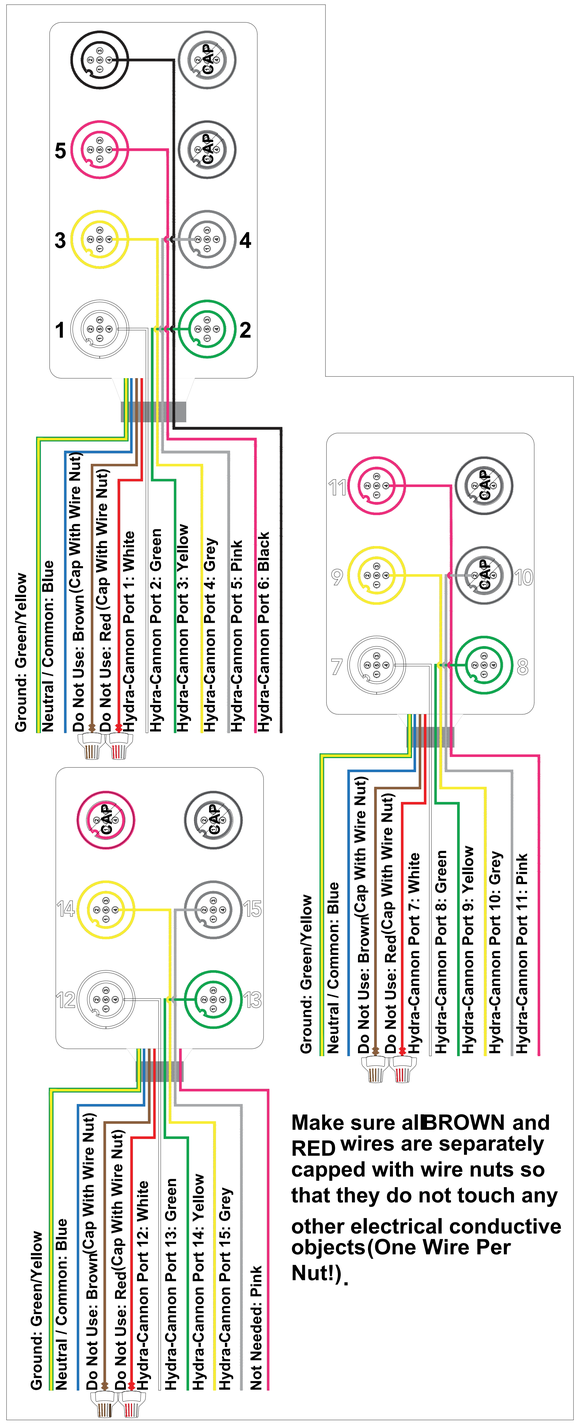
CUSTOMER: CLARK OIL COMPANY CAR WASH
WAYNESBORO, MS

TITLE: SHELF TRENCH DETAILS
EMBEDS

SCALE: N.T.S.
DATE: JUN. 2017
DRAWN BY: SJvN
CHK'D BY:

DRAWING REVISION: 0
DRAWING NUMBER: SE17-079-T3

15 PORT CLEAN WASH ECHO (NON HFI MOTOR STARTER)



Make sure all BROWN and RED wires are separately capped with wire nuts so that they do not touch any other electrical conductive objects(One Wire Per Nut!).

Junction Block 1 (Top)

POSITION	AIR VALVE POSITION	WIRE COLOR
GROUND	-	GREEN/ YELLOW
NEUTRAL / COMMON	-	BLUE
DO NOT USE	-	BROWN
DO NOT USE	-	RED
HYDRA-CANNON PORT 1	1	WHITE
HYDRA-CANNON PORT 2	2	GREEN
HYDRA-CANNON PORT 3	3	YELLOW
HYDRA-CANNON PORT 4	4	GREY
HYDRA-CANNON PORT 5	5	PINK
HYDRA-CANNON PORT 6	6	BLACK

Junction Block 2 (Middle)

HYDRA-CANNON	AIR VALVE POSITION	WIRE COLOR
GROUND	-	GREEN/ YELLOW
NEUTRAL / COMMON	-	BLUE
DO NOT USE	-	BROWN
DO NOT USE	-	RED
HYDRA-CANNON PORT 7	7	WHITE
HYDRA-CANNON PORT 8	8	GREEN
HYDRA-CANNON PORT 9	9	YELLOW
HYDRA-CANNON PORT 10	10	GREY
HYDRA-CANNON PORT 11	11	PINK

Junction Block 3 (Bottom)

HYDRA-CANNON POSITION	AIR VALVE POSITION	WIRE COLOR
GROUND	-	GREEN/ YELLOW
NEUTRAL / COMMON	-	BLUE
DO NOT USE	-	BROWN
DO NOT USE	-	RED
HYDRA-CANNON PORT 12	12	WHITE
HYDRA-CANNON PORT 13	13	GREEN
HYDRA-CANNON PORT 14	14	YELLOW
HYDRA-CANNON PORT 15	15	GREY
-	-	PINK

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REVISION

MACNEIL
90 WELHAM ROAD,
BARRIE ONTARIO,
L4N 8Y4
CANADA

CUSTOMER: CLARK OIL COMPANY CAR WASH WAYNESBORO, MS

TITLE: HYDRAFLEX CHEMICAL SYSTEM ELECTRICAL SPECIFICATIONS

SCALE: N.T.S.
DATE: JUN. 2017
DRAWN BY: SJvN
CHK'D BY:
DRAWING REVISION: R0
DRAWING NUMBER: SE17-079-R3