

ADDENDUM TO THE CONTRACT

for the

Capital Transit Facility Renovation and Addition Contract No. E16-016

ADDENDUM NO.	: TWO

CURRENT DEADLINE FOR BIDS: March 30, 2016

PREVIOUS ADDENDA: ONE

ISSUED BY: City and Borough of Juneau ENGINEERING DEPARTMENT 155 South Seward Street Juneau, Alaska 99801

DATE ADDENDUM ISSUED:

March 22, 2016

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: <u>http://www.juneau.org/engineering_ftp/contracts/Contracts.php</u>

INFORMATON: Provided are the Final Shop Drawings for Capital Transit – Juneau Alaska Equipment Layout, NS Wash Systems (Page 1- 3) for Contractor's Reference. The text is small at 11 x 17 please view at the Website to enlarge.

PROJECT MANUAL:

- Item No. 1 SECTION 00030 NOTICE INVITING BIDS DESCRIPTION OF WORK, Additive Alternate No. 1 **Delete** "and the concrete apron outside the bus wash"
- Item No. 2 SECTION 01230 ALTERNATES, PART 3 EXECUTION, Article 3.1 SCHEDULE OF ALTERNATES, Paragraph, 1. Alternate bid 1: **Delete** "and the concrete apron outside the bus wash"
- Item No. 3 SECTION 08313 SECTIONAL DOORS, PART 2 PRODUCTS, Article 2.2 TRACKS, SUPPORTS, AND ACCESSORIES, *Add*, Paragraph F. Provide a 22ga stainless steel cover over motor to protect from moisture.
- Item No. 4 SECTION 221006 PLUMBING PIPING SPECIALTIES, PART 2- PRODUCTS, Article 2.9 SUMPS AND INTERCEPTORS, Paragraph B. Oil Interceptors: Letter h. *Change to* "Inlet/Outlet size: 6-inch."
- Item No. 5 SECTION 01010 SUMMARY OF WORK, PART 1 GENERAL, Article 1.2 WORK COVERED BY CONTRACT DOCUMENTS, Paragraph A. DESCRIPTION OF WORK, last paragraph, **Delete** "The bus wash is to be commissioned, complete and operational by October 15, 2016" and **replace** with "The bus wash is to be commissioned, complete and operational by October 1, 2016."

DRAWINGS:

- Item No. 1 Sheet A001 MECHANICAL SHEET INDEX, *Delete* and **replace** with the attached Sheet A001 MECHANICAL SHEET INDEX, labeled Addendum No. 2.
- Item No. 2 Sheet A201 OVERALL FIRST FLOOR PLAN, *Delete* and **replace** with the attached Sheet A201 OVERALL FIRST FLOOR PLAN, labeled Addendum No. 2, dated March 2016.
- Item No. 3 Sheet A403 ENLARGED FLOOR PLAN, *Delete* and **replace** with the attached Sheet A403 ENLARGED FLOOR PLAN, labeled Addendum No. 2, dated March 2016.
- Item No. 4 Sheet C302 ENLARGED SITE PLAN, Sewer Pipe Summary Table, *Revise* Pipe SP-2 and SP-3 to be 6" diameter PVC pipe.
- Item No. 5 Sheet C302 ENLARGED SITE PLAN, SSCO-2 Information Box, *Revise* SSCO-2 to be 6" diameter sanitary sewer cleanout.
- Item No. 6 Sheet C303 ENLARGED SITE PLAN, Sewer Pipe Summary Table, *Revise* Pipe SP-2 to be 6"diameter PVC pipe.
- Item No. 7 Sheet C500 CONSTRUCTION DETAILS, Detail No. 1A, *Delete* "Alternate" from the detail title.
- Item No. 8 Sheet C500 CONSTRUCTION DETAILS, Detail No. 1B, *Delete* "Base-Bid" from the detail title.
- Item No. 9 Sheet C501 CONSTRUCTION DETAILS, Detail No. 6, Sanitary Sewer Drop Manhole, *Revise* all references to 4" PVC to Read 6" PVC.
- Item No. 10 Sheet C501 CONSTRUCTION DETAILS, Detail No. 6, Sanitary Sewer Drop Manhole, Note 7 *Add* the following: Drop piping shall be 6" diameter piping.
- Item No. 11 Sheet S211 PARTIAL FOUNDATION PLAN, *Delete* and **replace** with the attached Sheet S211 PARTIAL FOUNDATION PLAN, Revision 2, labeled Addendum No. 2, dated February 2016.
- Item No. 12 Sheet S311 BUS WASH FOUNDATION DETAILS, *Delete* and *replace* with the attached Sheet S311 BUS WASH FOUNDATION DETAILS, with Revision 2 for Detail A, labeled Addendum No. 2, dated February 2016.
- Item No. 13 *Add* Sheet S313 TRENCH AND SAND PIT SECTIONS, Revision 2, labeled Addendum No. 2, dated February 2016.
- Item No. 14 Sheet M100 FOUNDATION PLAN,

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- **Add** Sheet note: "1. ADJUST WASH BAY WASTE LINE LAYOUTS TO ACCOMMODATE WASH BAY EQUIPMENT SUMP LOCATION. REFERENCE WASH BAY SHOP DRAWINGS."
- **Add** Sheet note: "2. UPSIZE 4" WASTE FROM WASH BAY SUMP TO OWS-1 TO 6". UPSIZE 4" WASTE FROM OWS-1 TO CITY SEWER TO 6" WASTE. UPSIZEALL 4"FCOS SERVICING 6" WASTE TO 6"FCO. SANITARY DISCHARGE FROM THE WASH BAY EQUIP. IS 6" SIZE."

- Item No. 15 Sheet M101 PIPING PLAN,
 - **Add** note to WSPR, CW and RD piping spanning 122-Bus Storage, 123-Bus Storage. "MAINTAIN APPROXIMATELY 14'-0" CLEARANCE AFF BELOW PIPING. HANG WSPR, CW PIPING WITHIN 24" OF CEILING STRUCTURE. MATCH PITCH OF ROOF AS NECESSARY."

Item No. 16 Sheet M102 VENTILATION PLAN

- Add note to F-4 Ductwork: "SUPPLY AND RETURN DUCTWORK TO BE APPROXIMATELY 15'-0" AFF (BASE)".
- **Change** note to F-4 ductwork at Grid-C': "WASH BAY EQUIPMENT TAKES POSITIONAL PRIORITY OVER DUCTWORK."
- **Add** detail callout next to EF-2, EF-3, EF-4, EF-5, and EF-6 to direct to Drawing 4 of Sheet M402.

Item No. 17 Sheet M103 ROOF PLAN

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- **Change** detail callout for "2"VTR FOR DT-1" at Grids 7a &A to direct to Drawing-6, Sheet M402.
- **Add** 2"VTR at Grids 1a.5&A for new toilet room as indicated by sheet M303 with Detail callout to Drawing-6, Sheet M402.

Item No. 18 Sheet M301 ENLARGED MECHANICAL ROOM PLANS

- **Change** Detail callout on Drawing-1 next to F-1 chimney to indicate Drawing-7 of sheet M402.
- **Change** Detail callout on Drawing-2 next to DT-1 to indicate Drawing-2 of sheet M401.
- **Add** detail callout on Drawing-2 next to DT-1 VTR to indicate Drawing-6 of sheet M402.

Item No. 19 Sheet M302 RADIANT PIPING PLAN

- **Add** sheet note: "1. ADJUST WASH BAY WASTE LINE LAYOUTS TO ACCOMMODATE WASH BAY EQUIPMENT SUMP LOCATION. REFERENCE WASH BAY SHOP DRAWINGS."
- **Add** sheet note: "2. UPSIZE 4" WASTE FROM WASH BAY SUMP TO OWS-1 TO 6". UPSIZE 4" WASTE FROM OWS-1 TO CITY SEWER TO 6" WASTE. UPSIZE ALL 4"FCOS SERVICING 6" WASTE TO 6"FCO. SANITARY DISCHARGE FROM THE WASH BAY EQUIP. IS 6" SIZE."
- **Add** sheet note: "3. WASH BAY EQUIPMENT FOUNDATION REQUIREMENTS TAKES PRIORITY OVER RADIANT TUBING LAYOUTS. COORDINATE RADIANT TUBING INSTALLATION WITH WASH BAY MANUFACTURERS INSTALLER."
- **Add** sheet note:"4. REFERENCE DRAWING-2, SHEET M402 FOR TYPICAL RADIANT TUBE INSTALLATION."

Item No. 20 Sheet M303 ENLARGED ADA TOILET ROOM PLAN

- Add 12"x12"access hatch to wall of 001-Toilet in front of TP(trap primer).
- **Show** isolation valves for HW/CW in mezzanine at approximately Grids-2a.6 & A.
- Item No. 21 Sheet E100 SHEET INDEX, LEGEND, GENERAL NOTES, *Add* the following to note 10: "This also applies to the Bus Wash Mechanical Room."

Item No. 22 Sheet E204 ENLARGED FLOOR PLAN – POWER, *Add* the following to key note no. 5:

"Feed the Blower System Control Panel (Item No. R) from a new 175/3 circuit breaker in the existing MDP in the mezzanine with 2-1/2" C, 4 no. 4/0, and 1 no. 6 GND. Feed the Main Control Panel (Item No. Q) from a 60/3 circuit breaker in panel HN with 1-1/2"C, 4 no. 4, and 1 no. 10 GND. Feed the Reclaim Control Panel (Item No. P) from a 50/3 circuit breaker in panel HN with 1-1/2"C, 4 no. 6, and 1 no. 10 GND. Feed the Air Compressor (Item No. T) from a 15/3 circuit breaker in panel HN with 3/4"C, 4 no. 12 & 1 no. 12 GND via a 30/3 heavy duty safety switch mounted next to the compressor. Feed the compressor with flexible conduit from the safety switch. See the Bus Wash Shop Drawing No. 9329-EQUIP for the locations of the equipment. See the Bus Wash Shop Drawing No. 9329-ELEC for the bus wash electrical requirements. Provide all wiring shown on the bus wash shop drawings. Provide all disconnects shown on the bus wash shop drawings and as required per NEC. Provide heavy duty, 600V rated disconnects for all three phase motors. Provide 120V, 20A, single pole switches with weather proof covers for all 120V, single phase motors. Provide all bus wash wiring in conduit. Provide dedicated home runs from all bus wash equipment to the bus wash panel that feeds it. Increase conduit size and conductor size from what is shown to meet NEC and as required. Comply with all project requirements (copper conductors with XHHW insulation, PVC conduit, flexible non-metallic conduit, 316 stainless steel disconnects, etc.) for bus wash electrical. All of the bus wash control wiring is 120V, therefore provide all bus wash control wiring."

- Item No. 23 Sheet E206 SINGLE LINE DIAGRAM, *Add* a new 175/3 circuit breaker to existing MDP in mezzanine. Show it feeding the Bus Wash Blower System Control Panel in the bus wash room 124 with 2-1/2" C, 4 no. 4/0, and 1 no. 6 GND.
- Item No. 24 Sheet E207 PANEL SCHEDULES, Make the following changes to existing panel LA panel schedule:
 - **Change** 100/3 circuit breaker feeding panel LA1 to a 150/3 circuit breaker, very high interrupting.
 - Add a note: "ALL CIRCUIT BREAKERS SHOWN ARE NEW"
- Item No. 25 Sheet E212 ROOF HEAT TRACE DRAIN ASSEMBLY DETAIL AND PANEL HN, *Add* (1) 50/3 circuit breaker, (1) 60/3 circuit breaker, & (1) 15/3 circuit breaker to Panel HN starting at circuit 7. Label the circuit breakers with the equipment they feed per note 5 on Sheet E204.

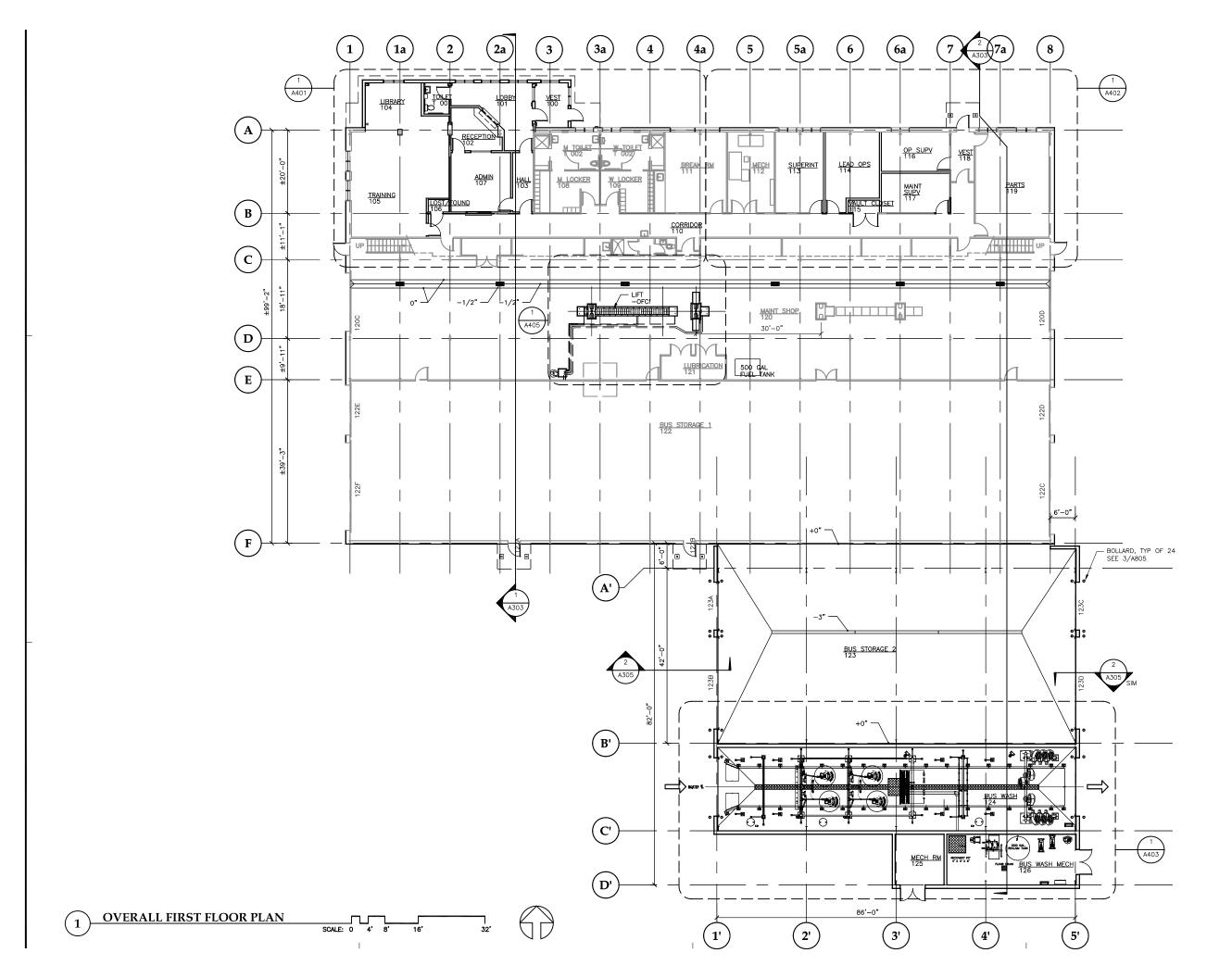
By: <u>Greg Smith</u>,

Contract Administrator

Total number of pages contained within this Addendum: 13

City & Borough of Juneau CAPITAL TRANSIT FACILITY RENOVATION & ADDITION Juneau, Alaska CBJ Contract No. E16-016 February 16, 2016							
ARCHITECT JENSEN YORBA LOTT, INC 522 WEST 10TH STREET JUNEAU, ALASKA 99801 (907) 586-1070 FAX (907) 586-3959	CIVIL ENGINEER R&M ENGINEERING, INC. 6205 GLACIER HIGHWAY JUNEAU, ALASKA 99801 (907) 780-6060 FAX (907) 780-4611	STRUCTURAL ENGINEER PND ENGINEERS, INC. 9360 GLACIER HIGHWAY, SUITE 100 JUNEAU, ALASKA 99801 (907) 586-2093 FAX (907) 586-2099	MECHANICAL ENGINEER MURRAY & ASSOCIATES, P.C. P.O. BOX 21081 JUNEAU, AK 99802 (907) 780-6151 FAX (907) 780-6182	ELECTRICAI MORRIS ENGINEER P.O. BOX JUNEAU, AL (907) 74 FAX (907)			
SHEET INDEX A001 COVER SHEET A002 CODE SUMMARY, ABBREVIATIONS & SYMBOLS A003 DOOR & WINDOW SCHEULES A004 DOOR & WINDOW SCHEULES A001 DEMOLITION SITE PLAN D201 DEMOLITION FLOOR / SLAB PLAN D202 DEMOLITION EXTERIOR ELEVATIONS D303 DEMOLITION EXTERIOR ELEVATIONS D303 DEMOLITION EXTERIOR ELEVATIONS D303 DEMOLITION EXTERIOR DELOOR PLAN D401 DEMOLITION ENTERIOR DELOOR PLAN D402 DEMOLITION ENTERIOR DETAILS D403 DEMOLITION ENTERIOR DETAILS D404 DORD PLAN STERIOR PLAN A202 MEZZANNE FLOOR PLAN A203 ROOF PLAN A204 MEZZANNE FLOOR PLAN A205 EXTERIOR ELEVATIONS A306 EXTERIOR ELEVATIONS A307 EXTERIOR ELEVATIONS A308 WALL SECTIONS A309 WALL SECTIONS A300 EXTERIOR PLAN A402 ENLARGED FLOOR PLAN A402 ENLARGED FLOOR PLAN A402 ENLARGED FLOOR PLAN	C001 GENERAL NOTES, ABBREVIATIONS & SYMBOLS C100 SURVEY CONTROL DIAGRAM C101 EXISTING SITE CONDITIONS C102 DRILL TEST HOLE BORING LOGS C200 SITE DEMOLITION PLAN C301 SHEET KEY INDEX C301 EMARGED SITE PLAN C302 EMARGED SITE PLAN C303 EMARGED SITE PLAN C304 GRADE POINT SUMMARY TABLE C400 SITE CROSS SECTION C501 CONSTRUCTION DETAILS C502 CONSTRUCTION DETAILS C503 CONSTRUCTION DETAILS C503 CONSTRUCTION DETAILS C503 CONSTRUCTION DETAILS C504 CONSTRUCTION DETAILS C505 CONSTRUCTION DETAILS C506 CONSTRUCTION DETAILS C507 CONSTRUCTION DETAILS C508 CONSTRUCTION DETAILS	S001 STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS S201 PARTIAL FOUNDATION PLAN S203 DETAILS S201 PARTIAL ROOF PLAN S202 PARTIAL ROOF PLAN S210 PARTIAL ROOF PLAN S211 PARTIAL FOUNDATION PLAN S212 PARTIAL FOUNDATION PLAN S213 PARTIAL FOUNDATION PLAN S214 PARTIAL FOUNDATION PLAN S315 PARTIAL FOUNDATION PLAN S311 PARTIAL FOUNDATION PLAN S312 PARTIAL FOUNDATION PLAN S311 BUS STORAGE FOUNDATION DETAILS S312 LIFT FOUNDATION DETAILS S312 LIFT FOUNDATION DETAILS S400 ENTRY ROOF DETAILS S412 PERSONNEL CANOPY	MOOI SYMBOLS & SCHEDULES MOO2 SCHEDULES MIO0 FOUNDATION PLAN MIO3 FOUNDATION PLAN MIO3 ENLARGED MECHANICAL ROOM PLANS MSO3 ENLARGED ADA TOILET ROOM PLAN MSO3 ENLARGED ADA TOILET ROOM PLAN MSO3 DETAILS MSO1 SECTIONS MDIO0 FOUNDATION PLAN - DEMO MDIO1 FOUNDATION PLAN - DEMO MDIO1 ENLARGED MECHANICAL ROOM PLAN - DEMO MDIO1 ENLARGED MECHANICAL ROOM PLAN - DEMO	E100 SHEET INDEX, LEGEND, E101 DEMOLITION SITE PLAN E102 OVERALL FIRST FLOOR E103 ENLARGED DEMOLITION E104 ENLARGED DEMOLITION E201 OVERALL FIRST FLOOR PLAN E202 ENLARGED FLOOR PLAN E203 ENLARGED FLOOR PLAN E205 MEZZANINE FLOOR PLAN E206 SINGLE LINE DIAGRAM E207 PANEL SCHEDULES – P E208 PANEL SCHEDULES – P E208 MECHANICAL EQUIPMENT E211 SCHEMATICS E212 ROOF HEAT TRACE DRA E301 OVERALL FIRST FLOOR E302 ENLARGED FLOOR PLAN E303 ENLARGED FLOOR PLAN E304 ENLARGED FLOOR PLAN E305 LUMINAIRE SCHEDULE E401 OVERALL FIRST FLOOR E402 ENLARGED FLOOR ELEC E403 ENLARGED FLOOR ELEC E404 ENLARGED FLOOR ELEC E405 FIRE ALARM RISER DIAG E406 DATA AND TELEPHONE			

CAL ENGINEER EERING GROUP, LLC BOX 210049 J, ALASKA 99821 7) 789–3350 907) 789–3360	ABATEMENT ENGINEER CARSON DORN 712 WEST 12TH STREET JUNEAU, ALASKA 99801 (907) 586-4447 FAX (907) 586-5917			
SEND, GENERAL NOTES PLAN OOR DEMO PLAN - ELECTRICAL TION FLOOR PLAN - ELECTRICAL TION FLOOR PLAN - ELECTRICAL TION BUS WASH PLAN - POWER PLAN - POWER PLAN - POWER PLAN - POWER S - PANEL LA AND PANEL LA1 S - PANEL LA AND PANEL LA1 S - PANEL LA AND PANEL LA1 S - PANEL LA AND PANEL LC1 PMENT SCHEDULE E DRAIN ASSEMBLY DETAIL AND PANEL HN .OOR ELECTRICAL PLAN - LIGHTING PLAN - SIGNAL	NONE			
ELECTRICAL PLAN - SIGNAL ELECTRICAL PLAN - SIGNAL ELECTRICAL PLAN - SIGNAL DIAGRAM IONE RISER DIAGRAM		ANTONIO V. VIERA Mor. 22, 16 Mar. 22, 16 Mar. 25, 101		
		Jensen Yorba Lott		
		522 West 10th Street Juneau, Alaska 99801 phone 907-586-1070 fax 907-586-3959 jensenyorbalott.com FILE: 15019		
	Addendum No. 2	A001		

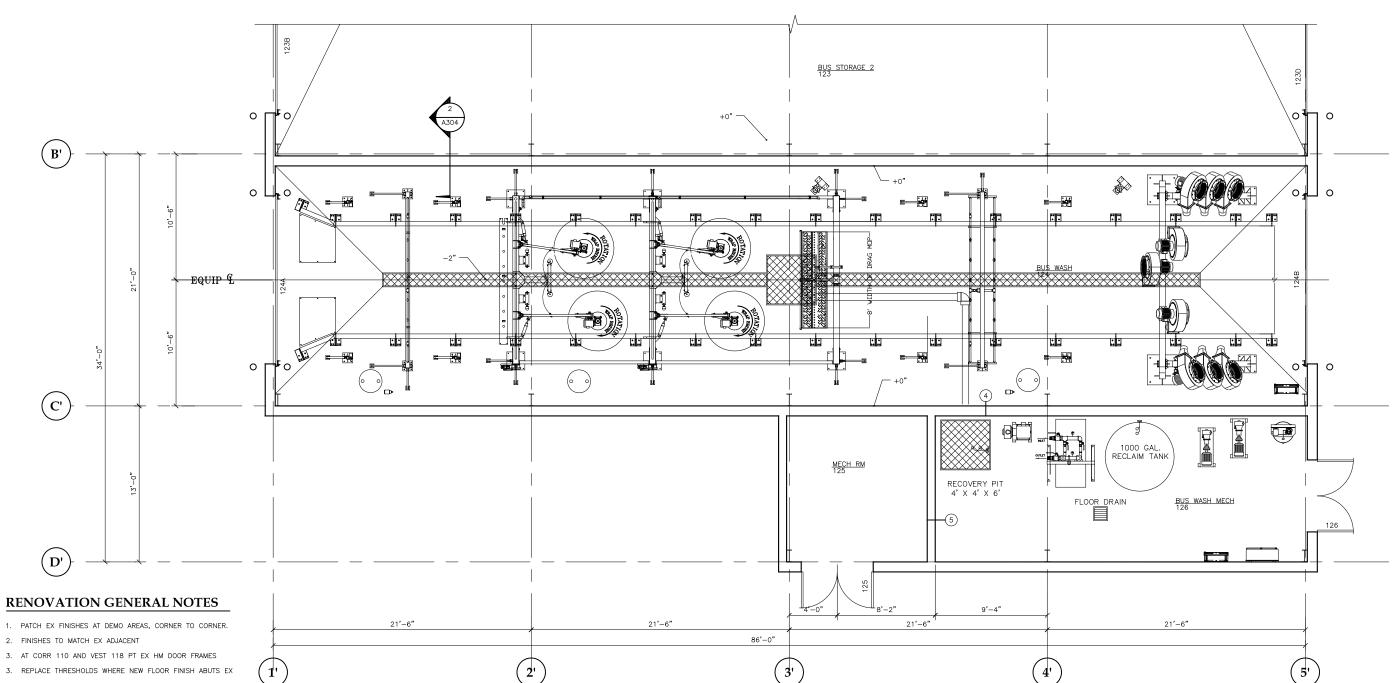


Jensen Yorba Lott

522 West 10th Street Juneau, Alaska 99801 phone 907-586-1070 fax 907-586-3959 jensenyorbalott.com







- 4 SEE A500 FOR TYPICAL FIXTURE HEIGHTS
- 5. SEE A003/A004 FOR ROOM FINISH & DOOR SCHEDULES

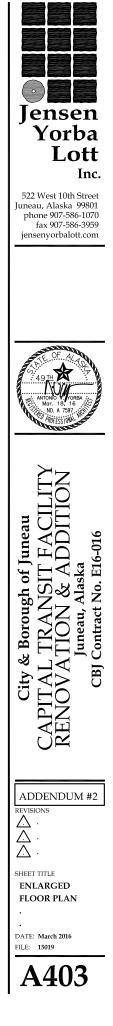
RENOVATION KEY NOTES

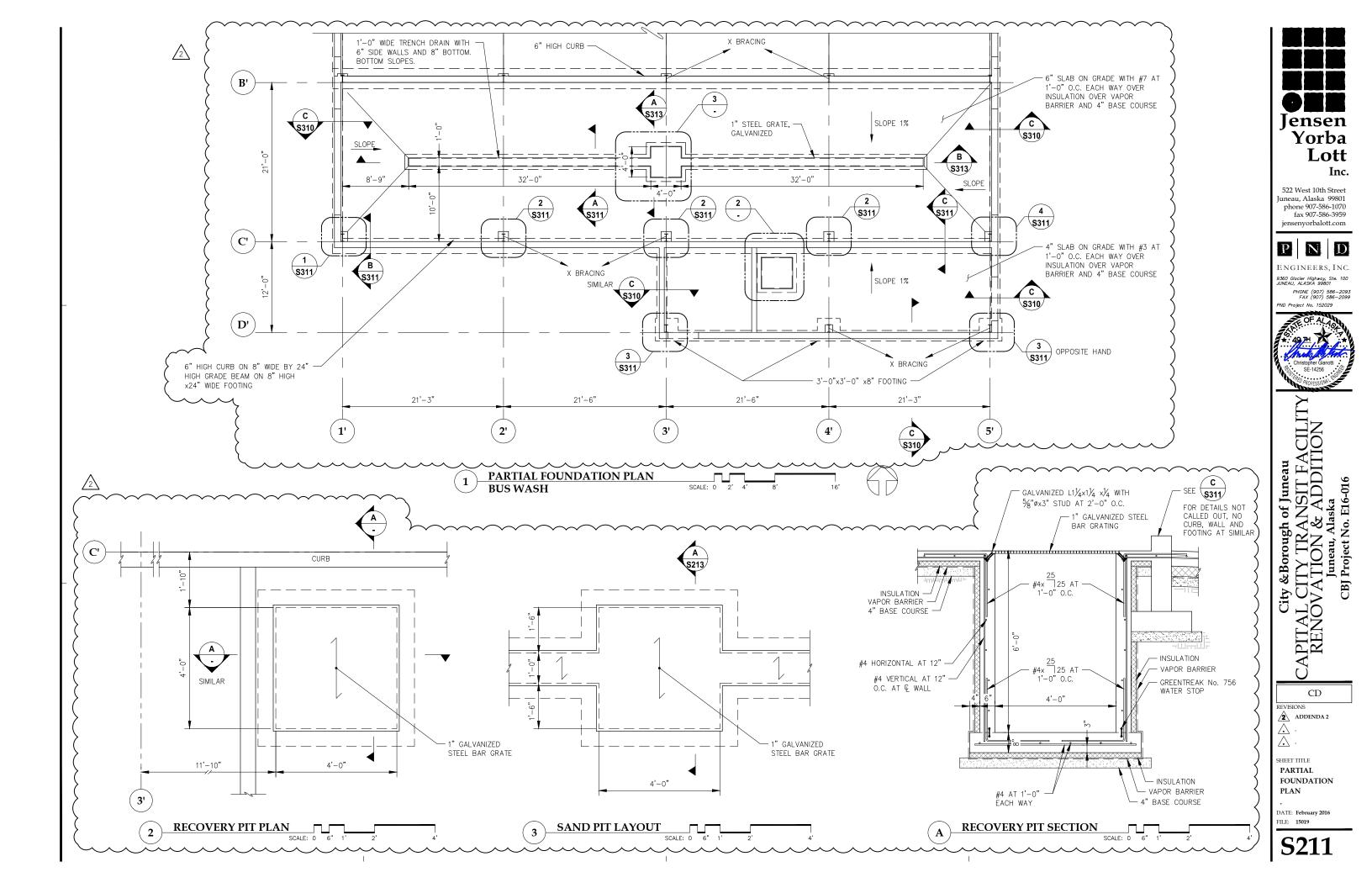
- 1 GWB @ EX COLUMN
- 2 SHELVING, SEE 6/A901

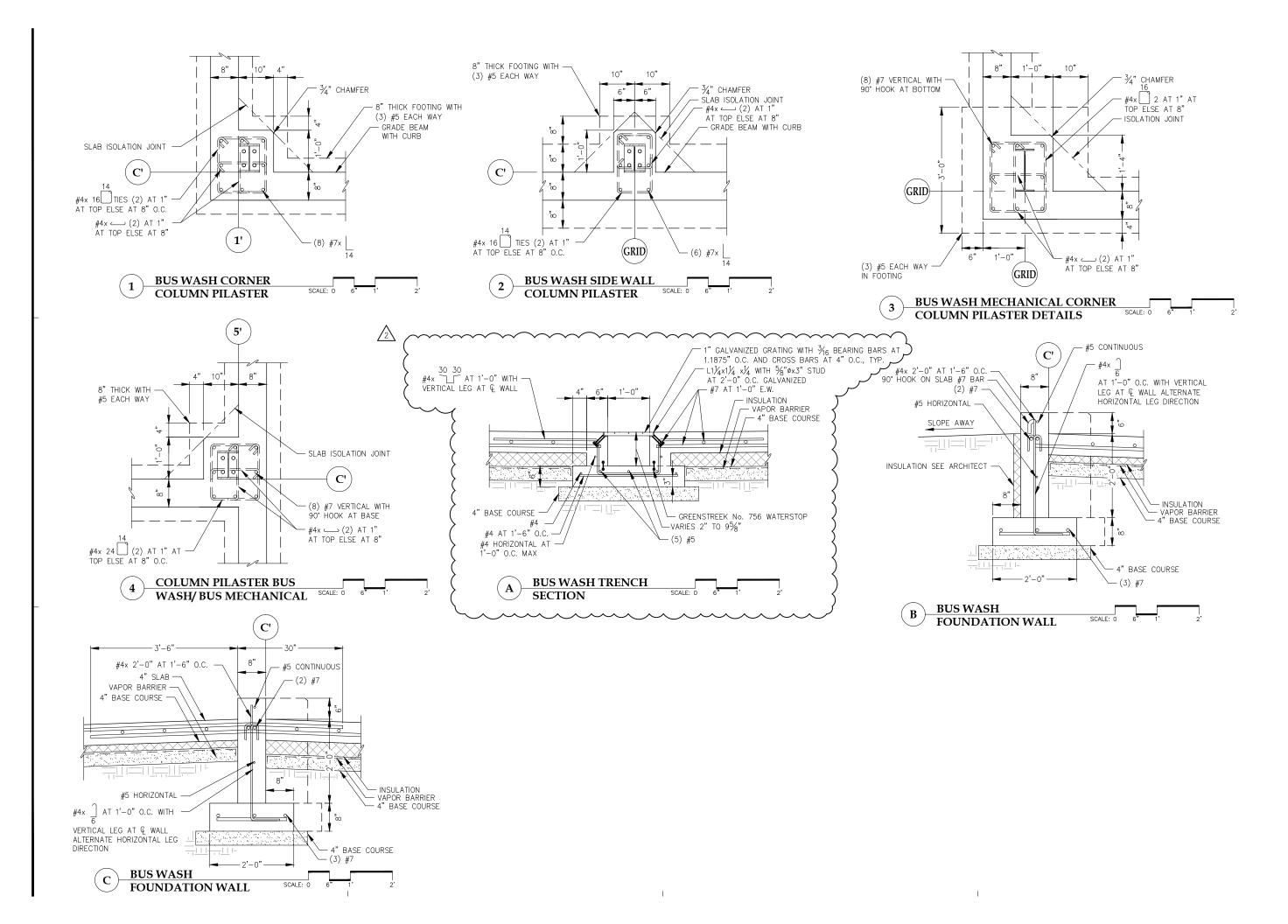
3 VAULT - OFOI



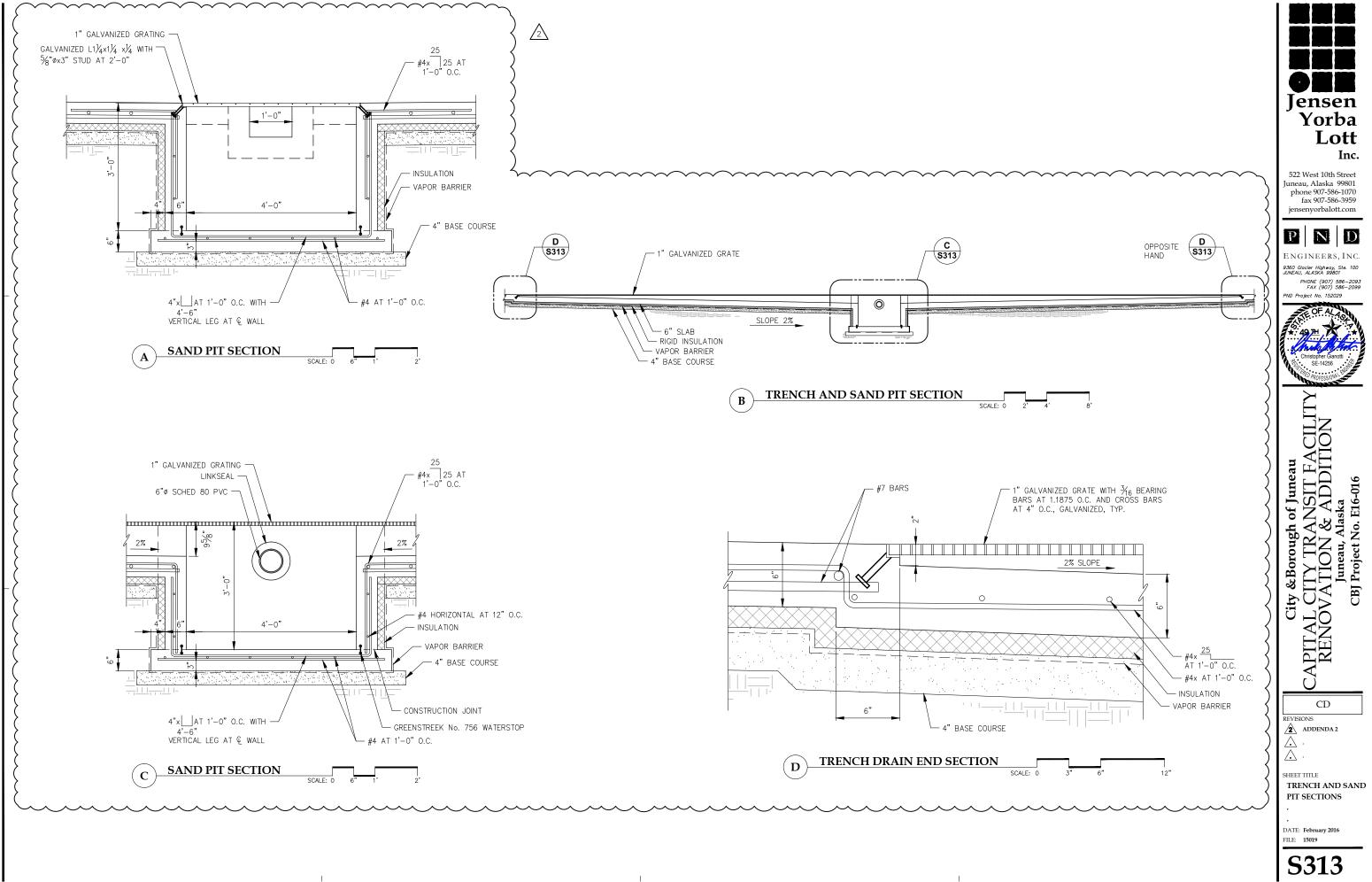
SCALE: 0 2' 4' 8'

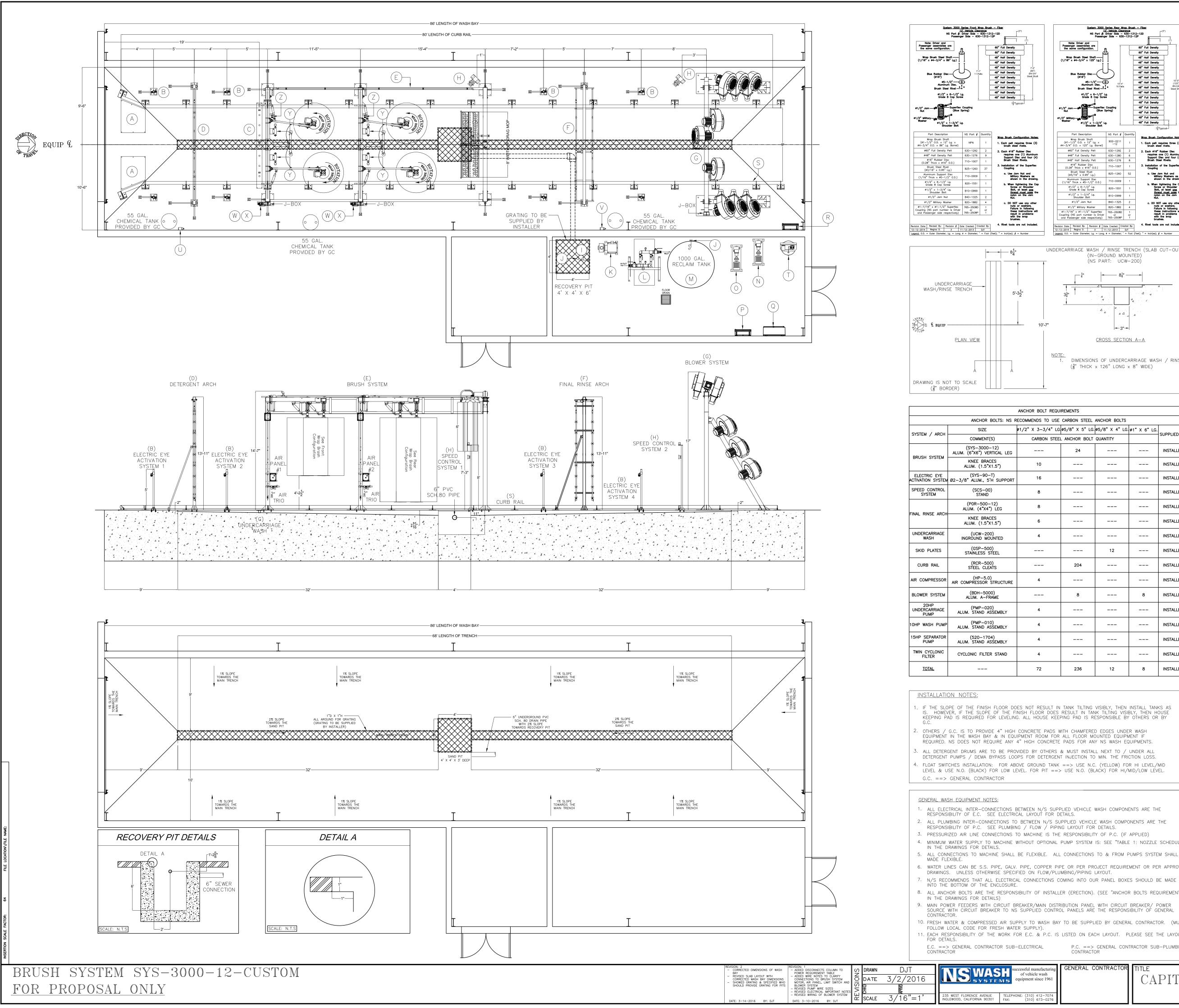












RESULT IN TANK TILTING VISIBLT, THEN INSTALL TANKS AS RESULT IN TANK TILTING VISIBLY, THEN HOUSE PING PAD IS RESPONSIBLE BY OTHERS OR BY					NOTÈ: ALL SECTIONS ARE GALV. EACH CLEAT SUPPORTS W. (6) 5/8
VITH CHAMFERED EDGES UNDER WASH ALL FLOOR MOUNTED EQUIPMENT IF PADS FOR ANY NS WASH EQUIPMENTS.		т	AIR COMPRESSOR	HP-5.0	AIR COMPRESSOR CON 1) 5HP COMPRESSOR (2 2) 80 GALLON VERTICA 3) MOTOR STARTE
& MUST INSTALL NEXT TO / UNDER ALL T INJECTION TO MIN. THE FRICTION LOSS.	-				BLUE-WHITE MODEL: C1
==> USE N.C. (YELLOW) FOR HI LEVEL/MID > USE N.O. (BLACK) FOR HI/MID/LOW LEVEL.		U	CHEMICAL PUMP	520–2006	CHEMICAL PUMP (WALL-MOUNTED 1) MAX VOLUME = 10.6 2) MAXIMUM PSI = 3) Øğ" O.D. SUCTION/DISCHARGE; (Øğ" O.D. X ‡" I.D 4) 55 GAL. CHEMICAL DRUM (PI
PLIED VEHICLE WASH COMPONENTS ARE THE ETAILS. JPPLIED VEHICLE WASH COMPONENTS ARE THE NG LAYOUT FOR DETAILS. E RESPONSIBILITY OF P.C. (IF APPLIED)		v	DRYING AID PUMP	520–2006	BLUE-WHITE MODEL: C1 DRYING AID PUMP (WALL-MOUNTE 1) MAX VOLUME = 10.6 2) MAXIMUM PSI = 3) Øġ ^{**} O.D. SUCTION/DISCHARGE; (Øġ ^{**} O.D. X ¼ ^{**} I.D 4) 55 GAL. CHEMICAL DRUM (PI
PUMP SYSTEM IS: SEE "TABLE 1: NOZZLE SCHEDULE"			≩" AIR TRIO	460-0082	₹"AIR TRIO:
. CONNECTIONS TO & FROM PUMPS SYSTEM SHALL BE		W	(AIR RETRACT SYSTEM)	(ARTB-500)	≩" AIR TRIO (≩" NPT CONNECTI
PE OR PER PROJECT REQUIREMENT OR PER APPROVED MBING/PIPING LAYOUT. OMING INTO OUR PANEL BOXES SHOULD BE MADE		x	AIR PANELS (AIR RETRACT SYSTEM)	CP-AIR-115 (ARTB-500)	AIR PANEL INCLUDI 1) NEMA 4X FIBERGLASS E 2) AIR 4–WAY SOLENOID 3) TIMER, TERMINAL BLOC
ER (ERECTION). (SEE "ANCHOR BOLTS REQUIREMENT" RIBUTION PANEL WITH CIRCUIT BREAKER/ POWER DL PANELS ARE THE RESPONSIBILITY OF GENERAL TO BE SUPPLIED BY GENERAL CONTRACTOR. (MUST		Y '	AIR CYLINDER ASSEMBLY (AIR RETRACT SYSTEM)	440–1252 (CYLINDER) 900–0481 (HOLDER) (ARTB–500)	AIR CYLINDER ASSEMBLY 1) ALUM. CYLINDER HOLDER 2) AIR CYLINDER W. 2½" BORE 3) FLEXIBLE AIR LINE/TUBING
LISTED ON EACH LAYOUT. PLEASE SEE THE LAYOUTS P.C. ==> GENERAL CONTRACTOR SUB-PLUMBING CONTRACTOR		Z	LIMIT SWITCHES (AIR RETRACT SYSTEM)	240–0005 (ARTB–500)	LIMIT SWITCH INCLUE 1) SINGLE POLE W/ (1) N.O 2) PLUG-IN TYPE 3) SIDE ROTARY OPERATING 4) PLUG-IN ADJUSTABLE
GENERAL CONTRACTOR TITLE					
CAPITAL	TRA	AN	SIT –	JUNEAU	U ALASKA
	EQU	JIF	PMENT	LAYOU'	Γ
	*				

5/8" X 5" LG.	Ø5/8" X 4" LG.	ø1"X 6"LG.	SUPPLIED BY
ANCHUR BULI	QUANTIT		
24			INSTALLER
	12		INSTALLER
204			INSTALLER
			INSTALLER
8		8	INSTALLER
			INSTALLER
236	12	8	INSTALLER

DIMENSIONS OF UNDERCARRIAGE WASH / RINSE: (³/₈" THICK x 126" LONG x 8" WIDE)

UNDERCARRIAGE WASH / RINSE TRENCH (SLAB CUT-OUT) (IN-GROUND MOUNTED) (NS PART: UCW-200) 4 4 44 - 3"--

<u>CROSS SECTION A-A</u>

(#16")			48"	Half	Density		
ø5-1/2" — 🤆 Aluminum Disc.	D 10'-4"		48"	Half	Density		10 ⁴ -5 (125
Brush Steel Rivet	 16 Pelt 	• F	48"	Half	Density	\neg	94-3) eel S
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Ø1/2" x 6-1/2" L Grade 8 Cap Screv		1	48"	Full	Density	۲	
			48"	Full	Density	\prec	
2" Jam Superflex	Coupling				Density	\prec	
Nut (Blue S					Density	\prec	
		⊢			Density	\prec	
Military					Density		
¢1/2" x 1-3/4" Lç Shoulder Bolt	• <u>i</u>		40	rui			1
					7 3 "Ty	pica	
Part Description	NS Part #	Quantity					
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ø60" Full Density Pelt	630-1292	2	2.		h ø16" R		
ø48" Full Density Pelt	630-1280	6		n 6	equires on upport Dis	e (1) Alu	min
ø48" Half Density Pelt	630-1276	8		B	rush Steel	Rivets.	
Ø16" Rubber Disc (0.28" Thick x Ø16" O.D.)	710-1007	1	3.		allation of oupling	the Sup	erfi
Brush Steel Rivet (ø3/16" x 0.95" Lg.)	825-1260	52		a	. Use Jan Military	n Nut and y Washers	
Aluminum Support Disc /16" Thick x ø5-1/2" O.D.)	710-0009	1			shown . When tic	in the d	Iraw
ø1/2" x 6-1/2" Lg. Grade 8 Cap Screw	820-1551	1			Screw Bolt,	or Shoul at least g	der one
ø1/2" x 1-3/4" Lg. Shoulder Bolt	810-0999	1				on the J	
ø1/2" Jam Nut	840-1325	2			. DO NOT	use onv	oth
ø1/2" Military Washer	820-1882	4	nuts o Failure		or washer in follow	s. ving	
-7/16" x Ø1-1/2" Superflex bling (NS part number is Driver d Passenger side respectively)	765-2508D or 765-2508P	1 or 1			result	instructio in proble he wrap ss.	
	te Created: Cre		4.	Rive	et tools a	re not ind	bulc
2014 Regina D. 3 11 0.D. = Outer Diameter; Lg. = Long;	-12-2013	DJT = Foot (F	eet). "	= ir	ich(es):# :	= Number	
				- 0		. 101110-01	

System 3000 Series Rear Wrap Brush – Fiber 12' Vehicle Clearance NS Part ∯: Driver Side – 630−1312−12D Passenger Side – 630−1312−12P

60" Full Density 60" Full Density

48" Half Density

48" Half Density 48" Half Density 48" Half Density 48" Half Density

			ELECTRICAL CONTRACTOR		NS-E.C. G.CP.C			
GENER	AL CONTRACTOR	GENERAL CONTRAC	AL CONTRACTOR SUB-PLUMBING CONTRACTOR AL CONTRACTOR SUB-ELECTRICAL CONTRACTOR			G.CP.C. G.CE.C.		
INSTALLER			NS TECHNICIANS NS DISTRIBUTORS		NS INSTALLER NS INSTALLER			
GENERAL CONTRACTOR					GC INSTALL			
		EQUIPMENT LIST - TO BE)				
ITEM #	PART / ITEM DESCRIPTION	NS PART #	NS EQUIPMENT DETAILS DESCRIPTION		VOLTAGE	QTY.		
A	‡" s,s, skid plat	E GSP-500	4" STAINLESS STEEL SKID PLATE-SURFACE N			1 SET		
В	ELECTRIC EYE ACTIVATION SYSTE	M SYS-90-T	1) ELECTRIC EYE EMITTER & RECEIVE 2) CYLINDRICAL TUBING STAND 3) 3D BRACKET (NS PART #: 630-000		115V—1¢	4 SETS		
С	UNDERCARRIAGE WA (IN-GROUND MOUNT		UNDERCARRIAGE WASH CONTAINS: 1) ALUM. PLATE (§"T X 126"L X 8"W 2) Ø1" GALV. SCH. 40 SPRAY PIPE W. B NOZZLE TYPE			1		
D	DETERGENT ARCH	PAR-500-12	DETERGENT ARCH CONTAINS: 1) ALUM. SUPPORT FRAME (TUBING, 16" X 4 2) ALUM. TOP BULKHEAD (TUBING, 16" X 4' 3) DETERGENT ARCH DEMA LOOP 4) Ø1" GALV. SCH 40 PIPE WITH (21) BRAS NOZZLES	" X 4")		1		
E	BRUSH SYSTEM (CUSTOM)	SYS-3000-12 (SINGLE FIXED CURTAIN, 8' LONG RACK, PASSENGER SIDE CONNECTIONS & SHORT FRONT WRAP BRUSHES)	BRUSH SYSTEM CONTAINS: 1) RUGGED SIX-LEGGED STRUCTURAL ALUI FRAME 2) SINGLE DRAG MOP ASSEMBLY 3) TWO PAIRS OF WRAP BRUSH ASSEMBLY W/ 11 PELTS AND REAR W/ 16 PELT 4) BRUSH PACKAGE DEMA LOOP 5) AIR RETRACT SYSTEM WITH AUTOMATIC AC 6) AIR TRIO	(FRONT S)	480V–3¢	1		
F	FINAL RINSE ARCI	H POR-500-12	FINAL RINSE ARCH CONSISTS OF: 1) ALUM. SUPPORT FRAME (TUBING, 18" X 4 2) ALUM. TOP BULKHEAD (TUBING, 18" X 4' 3) Ø1–1/2" GALV. SCH. 40 PIPE WITH (32) SPRAY NOZZLES ON SIDES AND (10) ON	" X 4")) BRASS		1		
G	BLOWER SYSTEM	BDH-5000 AIR-10-D AIR-10-P	BLOWER SYSTEM CONSISTS OF: 1) (9) 10HP BLOWERS MOUNTED ON A HEA A-FRAME BLOWER ARCH. (3) BLOWERS MOU TOP, (3) BLOWERS MOUNTED ON EACH	NTED ON	480V–3¢	1 SET		
Н	SPEED CONTROL SYS (CUSTOM)	TEM SCS-00 (LED)	SPEED CONTROL SYSTEM WITH (2) STANDS TRIPLE COLOR LIGHTS, EACH WITH 1 RED W, 1 AMBER & 1 GREEN		115V–1¢	2		
I	BARREL SCREEN FIL W/ CHAIN	TER 460–0064 (WWS–220)	 BARREL SCREEN (Ø16" X 48"H) W/ CH NSTALL IN THE PIT (TO PREVENT BIG PARTIC ENTERING INTO PUMP) 2) 3" VERTICAL CHECK VALVE 3) 3" STRAINER 4) 3" BRASS CAM COUPLER QUICK DISCOME 	LE FROM		1		
J	FLOAT SWITCH & WEIGHT	240-0042 => N.C. 240-0042A => N.O. 240-0043-B => WEIGHT	FLOAT SWITCH W/ WEIGHT – REQUIRED: (2 (YELLOW); (2) N.O. (BLACK) & (4) WEIG		115V–1¢	2 N.C. 2 N.O. 4 WT		
к	15HP SEPARATOR PI	JMP 520-1704 (WWS-220)	15HP SELF PRIMING PUMP 3450RPM TEFC MOTOR		480V-3¢	1		
L	TWIN CYCLONIC SEPARATOR	900-9247 (STAND) 460-0067 (SEPARATORS) 940-1320 (SLUDGE CART) (WWS-220)	4")	2) TWIN CYCLONE SEPARATOR (FILTERS) ASSEMBLY		1 SET		
М	1000 GAL. RECLAI TANK		1000 GAL. RECLAIM TANK Ø64" X 81"H			1		
N	20HP UNDERCARRIA PUMP	GE PMP-020	20HP FREE-STANDING PUMP SYSTEM WITH IN-LINE STAINLESS STEEL SCREEN FILTER ON SUCTION SIDE		480V-3¢	1		
0	10HP WASH PUM	PMP-010 (WWS-220)		10HP FREE-STANDING PUMP SYSTEM WITH IN-LINE STAINLESS STEEL SCREEN FILTER ON SUCTION SIDE		1		
Р	RECLAIM PANEL	NPN	RECLAIM SYSTEM CONTROL PANEL NEMA 4X STAINLESS STEEL ENCLOSUR	:E	480V-3q	1		
Q	MAIN CONTROL PAN	EL NPN	MAIN CONTROL PANEL INCLUDES: 1) NEMA 4X STAINLESS STEEL ENCLOSU 2) COMPACT STARTER/OVERLOADS 3) CIRCUIT BREAKER 4) RELAYS, FUSES, TRANSFORMER, TERMINAL ETC		480V–3¢	1		
R	BLOWER SYSTEM CONTROL PANEL	ECS-AF-B ECS-AF-10-1	BLOWER SYSTEM CONTROL PANEL INCLUI 1) NEMA 4X STAINLESS STEEL ENCLOSURE W DISCONNECT SWITCH AND SELECTOR SWI 2) SMART RELAY FOR STAGGER START OF STARTERS	'ITH MAIN TCH	480V-3¢	1		
S	7"H CURB RAIL (Ø4 7"H) (6 HOLE CLEAT)	" X RCR-500	7"H CURB RAIL CONTAINS: 1) 3' SECTION: TO BE INSTALLED AT THE E AT AN ANGLE; 2) 5' SECTION: TO BE INSTALLED AFTER 3' & STRAIGHT; 3) CLEATS W. 3/8" GALV. STELL BASE F (BRACKETS): TO SUPPORT ALL SECTION NOTE: ALL SECTIONS ARE GALV. SCH. 40 F EACH CLEAT SUPPORTS W. (6) 5/8"Ø ANCHO	SECTION PLATE NS. PIPE &		1 SET (80')		
т	AIR COMPRESSOF	HP-5.0	AIR COMPRESSOR CONTAINS: 1) 5HP COMPRESSOR (2 STAGE) 2) 80 GALLON VERTICAL TANK 3) MOTOR STARTER		480V-3¢	1		
U	CHEMICAL PUMP	520-2006	BLUE-WHITE MODEL: C15N404X CHEMICAL PUMP (WALL-MOUNTED) CONSIS 1) MAX VOLUME = 10.6 OZ/MIN 2) MAXIMUM PSI = 70 3) Øg 0.D. SUCTION/DISCHARGE; CHEMICAL (Øg 0.D. X 1 1.D.) 4) 55 GAL. CHEMICAL DRUM (PROVIDED B	TUBING	115V–1¢	1		
V	DRYING AID PUMF	520-2006	BLUE-WHITE MODEL: C15N404X DRYING AID PUMP (WALL-MOUNTED) CONSIS 1) MAX VOLUME = 10.6 OZ/MIN 2) MAXIMUM PSI = 70 3) \emptyset_{3}^{a} O.D. SUCTION/DISCHARGE; CHEMICAL $(\emptyset_{3}^{a}$ O.D. X $\frac{1}{4}$ I.D.) 4) 55 GAL. CHEMICAL DRUM (PROVIDED B	TUBING	115V–1¢	1		
W	हुँ" AIR TRIO (AIR RETRACT SYSTI	460-0082 (ARTB-500)	हुँ" AIR TRIO: हुँ" AIR TRIO (हुँ" NPT CONNECTION) W. FIT	TING		1 SET		
X	AIR PANELS (AIR RETRACT SYSTI	CP-AIR-115 (ARTB-500)	AIR PANEL INCLUDES: 1) NEMA 4X FIBERGLASS ENCLOSURE 2) AIR 4–WAY SOLENOID VALVE 3) TIMER, TERMINAL BLOCKS, ETC		115V-1¢	1 SET		
Y	AIR CYLINDER ASSEM (AIR RETRACT SYSTI		AIR CYLINDER ASSEMBLY INCLUDES: 1) ALUM. CYLINDER HOLDER ASSEMBL 2) AIR CYLINDER W. 2½" BORE & 1" ROD 3) FLEXIBLE AIR LINE/TUBING CONNECT	SIDE		2 SETS		
Z	LIMIT SWITCHES (AIR RETRACT SYSTI	240-0005 [M] (ARTB-500)	LIMIT SWITCH INCLUDES: 1) SINGLE POLE W/ (1) N.O. & (1) N 2) PLUG-IN TYPE 3) SIDE ROTARY OPERATING HEAD TYF 4) PLUG-IN ADJUSTABLE LEVER		115V–1¢	1 SET		

DWG. No.

9329-EQUIP

OF 3

LEGEND

ABBREVIATION

NS-P.C.

NS-E.C.

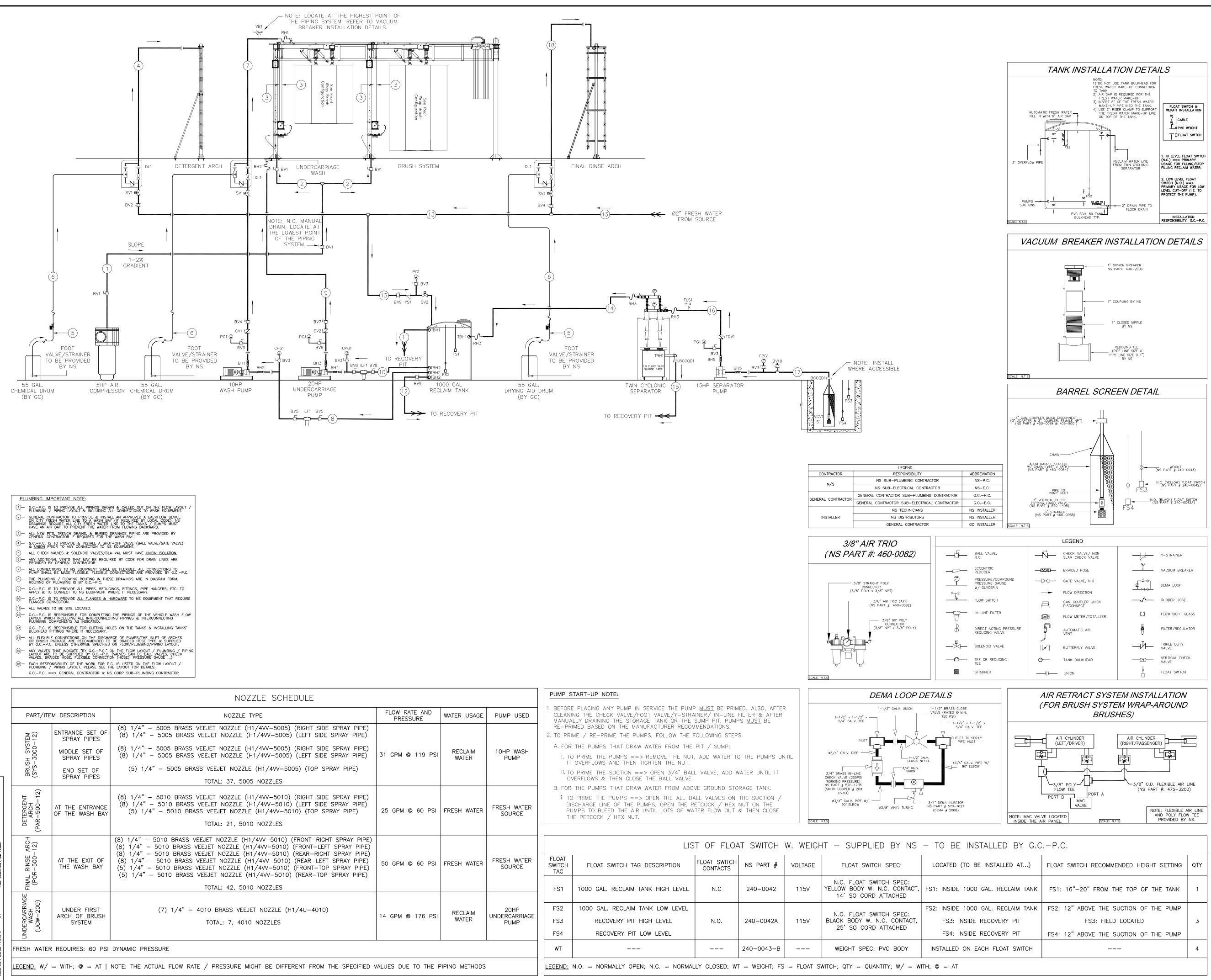
RESPONSIBILITY

NS SUB-ELECTRICAL CONTRACTOR

NS SUB-PLUMBING CONTRACTOR

CONTRACTOR

N/S



	PART/ITE	M DESCRIPTION	NOZZLE TYPE	FLOW RATE AND PRESSURE	WATER USAGE	PUMP USED
	BRUSH SYSTEM (SYS-3000-12)	ENTRANCE SET OF SPRAY PIPES MIDDLE SET OF SPRAY PIPES END SET OF SPRAY PIPES	 (8) 1/4" - 5005 BRASS VEEJET NOZZLE (H1/4VV-5005) (RIGHT SIDE SPRAY PIPE) (8) 1/4" - 5005 BRASS VEEJET NOZZLE (H1/4VV-5005) (LEFT SIDE SPRAY PIPE) (8) 1/4" - 5005 BRASS VEEJET NOZZLE (H1/4VV-5005) (RIGHT SIDE SPRAY PIPE) (8) 1/4" - 5005 BRASS VEEJET NOZZLE (H1/4VV-5005) (LEFT SIDE SPRAY PIPE) (5) 1/4" - 5005 BRASS VEEJET NOZZLE (H1/4VV-5005) (TOP SPRAY PIPE) 	31 GPM @ 119 PSI	RECLAIM WATER	10HP WASH PUMP
			TOTAL: 37, 5005 NOZZLES			
	DETERGENT ARCH (PAR-500-12)	AT THE ENTRANCE OF THE WASH BAY	(8) 1/4" – 5010 BRASS VEEJET NOZZLE (H1/4VV–5010) (RIGHT SIDE SPRAY PIPE) (8) 1/4" – 5010 BRASS VEEJET NOZZLE (H1/4VV–5010) (LEFT SIDE SPRAY PIPE) (5) 1/4" – 5010 BRASS VEEJET NOZZLE (H1/4VV–5010) (TOP SPRAY PIPE) TOTAL: 21, 5010 NOZZLES	25 GPM @ 60 PSI	FRESH WATER	FRESH WATER SOURCE
FILE LOCATION\FILE NAME:	FINAL RINSE ARCH (POR-500-12)	AT THE EXIT OF THE WASH BAY	 (8) 1/4" - 5010 BRASS VEEJET NOZZLE (H1/4VV-5010) (FRONT-RIGHT SPRAY PIPE) (8) 1/4" - 5010 BRASS VEEJET NOZZLE (H1/4VV-5010) (FRONT-LEFT SPRAY PIPE) (8) 1/4" - 5010 BRASS VEEJET NOZZLE (H1/4VV-5010) (REAR-RIGHT SPRAY PIPE) (8) 1/4" - 5010 BRASS VEEJET NOZZLE (H1/4VV-5010) (REAR-LEFT SPRAY PIPE) (5) 1/4" - 5010 BRASS VEEJET NOZZLE (H1/4VV-5010) (FRONT-TOP SPRAY PIPE) (5) 1/4" - 5010 BRASS VEEJET NOZZLE (H1/4VV-5010) (REAR-TOP SPRAY PIPE) (6) 1/4" - 5010 BRASS VEEJET NOZZLE (H1/4VV-5010) (REAR-TOP SPRAY PIPE) (7) 1/4" - 5010 BRASS VEEJET NOZZLE (H1/4VV-5010) (REAR-TOP SPRAY PIPE) 	50 GPM @ 60 PSI	FRESH WATER	FRESH WATER SOURCE
:TOR: 64	UNDERCARRIAGE WASH (UCW-200)	UNDER FIRST ARCH OF BRUSH SYSTEM	(7) 1/4" – 4010 BRASS VEEJET NOZZLE (H1/4U–4010) TOTAL: 7, 4010 NOZZLES	14 GPM @ 176 PSI	RECLAIM WATER	20HP UNDERCARRIAGE PUMP
ON SCALE FACTOR:		REQUIRES: 60 PSI	DYNAMIC PRESSURE			
01	1 .					

BRUSH SYSTEM SYS-3000-12-CUSTOM FOR PROPOSAL ONLY

REVISION: 2 - CORRECTED DIMENSIONS OF WASH BAY - REVISED SLAB LAYOUT WITH - CORRECTED WASH BAY DIMENSIONS - SHOWED GRATING & SPECIFIED WHO SHOULD PROVIDE GRATING FOR PITS	POWER REQUIREMENT TABLE – ADDED WIRE NOTES TO CLARIFY CONNECTIONS TO BRUSH SYSTEM MOTOR AIR PANEL JUMIT SWITCH AND	S F	DJT 3/2/16	NS WAS	successful manufacturing of vehicle wash equipment since 1961
DATE: 3-14-2016 BY: DJT	- REVISED WIRING OF BLOWER SYSTEM		3/16"=1'	235 WEST FLORENCE AVENUE INGLEWOOD, CALIFORNIA 90301	TELEPHONE: (310) 412-7074 FAX: (310) 673-0276

GENERAL CONTRACTOR TITLE CAPITAL TRANSIT – JUNEAU ALASKA FLOW LAYOUT

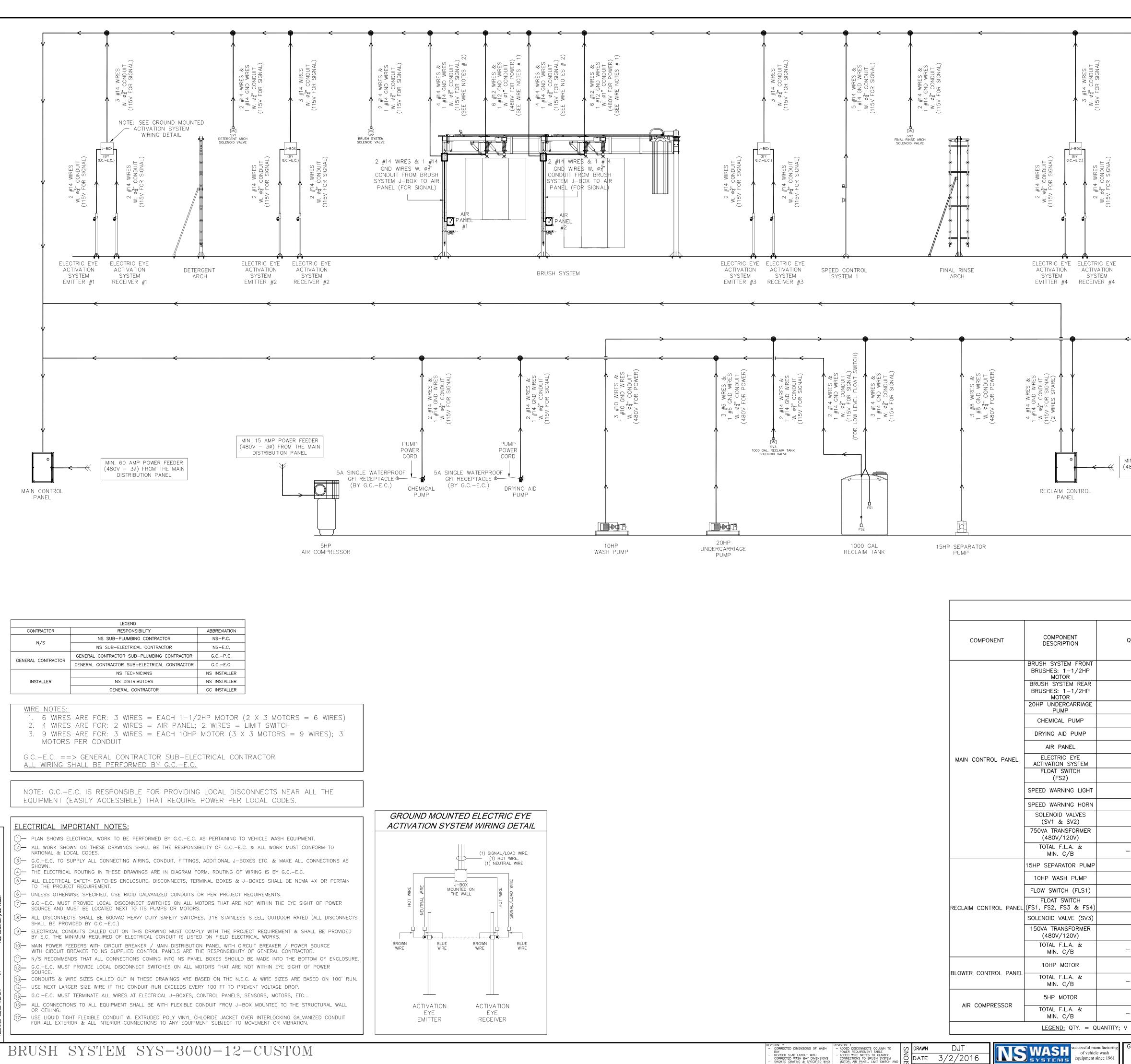
DWG. No.

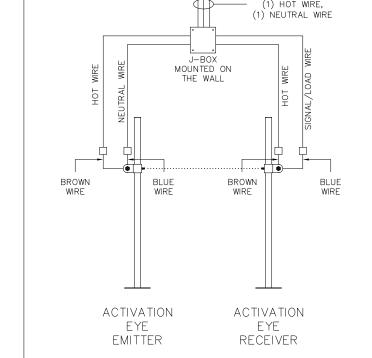
ITCH RECOMMENDED HEIGHT SETTING	QTY
–20" FROM THE TOP OF THE TANK	1
ABOVE THE SUCTION OF THE PUMP FS3: FIELD LOCATED ABOVE THE SUCTION OF THE PUMP	3
	4

ALVE / FITTING TAG	LOCATION (ON FLOW LINE #:)	SIZE (Ø)	DESCRIPTION / SPECIFICATIONS	NS PART # OR MANUFACTURER MODEL # OR EQUAL	TOTAL QTY.	TO BE PROVIDED B
BCCQD1	15, 17	3"	BRASS CAM COUPLER QUICK DISCONNECT (ADAPTER & COUPLER)	400-0019 & 405-9001	2	NS
BH1	7	1-1/2"	BRAIDED HOSE (RATED @ MIN. 150 PSI)		1	G.CP.C.
BH2	8	2"	BRAIDED HOSE (RATED @ MIN. 150 PSI)		1	G.CP.C.
BH3	9	1-1/2"	BRAIDED HOSE (RATED © MIN. 200 PSI)		1	G.CP.C.
BH4	10	2"	BRAIDED HOSE (RATED © MIN. 200 PSI)		1	G.CP.C.
BH5	16, 17	3"	BRAIDED HOSE (RATED @ MIN. 150 PSI)		2	G.CP.C.
BV1	1, 2	1/2"	BALL VALVE FOR AIR CONNECTION		4	G.CP.C.
BV2	4	1-1/2"	BALL VALVE (GALV. SCH. 40) (RATED @ MIN. 150 PSI)		1	G.CP.C.
BV3	7, 8, 10, 13, 16, 17	1/4"	BRASS BALL VALVE (RATED @ MIN. 150 PSI)		6	G.CP.C.
BV4	7, 18	1-1/2"	BRASS BALL VALVE (RATED @ MIN. 150 PSI)		2	G.CP.C.
BV5	8	2"	BRASS BALL VALVE (RATED @ MIN. 150 PSI)		2	G.CP.C.
BV6	9	1/4"	BRASS BALL VALVE (RATED @ MIN. 200 PSI)		1	G.CP.C.
BV7	9	1-1/2"	BRASS BALL VALVE (RATED @ MIN. 200 PSI)		1	G.CP.C.
BV8	10	2"	BRASS BALL VALVE (RATED @ MIN. 150 PSI)		2	G.CP.C.
BV9	12, 13	2"	BRASS BALL VALVE (RATED @ MIN. 150 PSI)		2	G.CP.C.
BV10	17	3/4"	BRASS BALL VALVE (RATED @ MIN. 150 PSI)		1	G.CP.C.
CPG1	8, 10, 17	1/4"	COMPOUND PRESSURE GAUGE – LIQUID–FILLED (–30 TO 0 IN.HG & 0 TO 30 PSI)		3	NS
CV1	7	1-1/2"	NON–SLAM CHECK VALVE (RATED @ MIN. 150 PSI)		1	G.CP.C
CV2	9	1-1/2"	NON–SLAM CHECK VALVE (RATED @ MIN. 200 PSI)		1	G.CP.C.
DL1	4, 7, 18	3/4", 1-1/2"	DEMA LOOP		3	NS
FLS1	16	1"	GENERAL PURPOSE LIQUID FLOW SWITCH		1	NS
ILF1	8, 10	2"	IN-LINE FILTER WITH 20 WIRE MESH		2	NS
PG1	7, 9, 13, 16	1/4"	PRESSURE GAUGE – LIQUID-FILLED 0-200 PSI RANGE		4	NS
RH1	7	1-1/2"	RUBBER HOSE (RATED @ MIN. 150 PSI)		1	G.CP.C.
RH2	9	1-1/2"	RUBBER HOSE (RATED @ MIN. 200 PSI)		1	G.CP.C.
RH3	14, 16	3"	RUBBER HOSE (RATED @ MIN. 150 PSI)		3	G.CP.C.
S1	17	3"	STRAINER	460-0055	1	NS
SV1	4, 7, 18	1-1/2"	SOLENOID VALVE (115V, NORMALLY CLOSED)	570-1110	3	NS
SV2	13	2"	SOLENOID VALVE (115V, NORMALLY CLOSED)	570-1118-A	1	NS
TBH1	11, 14, 15	3"	PVC SCH. 80 BULKHEAD	400-1520	3	G.CP.C.
TBH2	8, 10, 12	2"	PVC SCH. 80 BULKHEAD	400-1510	3	G.CP.C.
TDV1	16	3"	CAST IRON TRIPLE DUTY VALVE (MAX. PRESSURE: 200 PSI, MAX. TEMP: 212°F)	570-1417	1	NS
VB1	7	1"	VACUUM (SIPHON) BREAKER 8033 BSSV STAINLESS STEEL	400-2006	1	NS
VCV1	17	3"	VERTICAL CHECK VALVE	570-1495	1	NS
YS1	13	2"	Y–STRAINER (100 MESH)	N/A	1	G.CP.C.

FITTINGS / VALVES / COMPONENTS TABLE

CONNECTIONS TABLE								
FLOW			PLUMBING R	ESPONSIBILITY				
line #	CONNECTION SIZE (Ø)	MATERIAL	MATERIAL	INSTALLATION	COMMENTS			
1	1/2"	GALV. SCH. 40	G.CP.C.	G.CP.C.				
2	1/2" O.D. X 0.35" I.D.	POLY FLOW TUBING	G.CP.C.	G.CP.C.	CONNECTION BETWEEN 1/2" BALL VALVE AND AIR PANEL (2 PLACES)			
3	1/2" O.D. X 0.35" I.D.	POLY FLOW TUBING	G.CP.C.	G.CP.C.	CONNECTION BETWEEN THE AIR PANEL & PNEUMATIC ACTUATORS (4 PLACES)			
4	1-1/2"	GALV. SCH. 40	G.CP.C.	G.CP.C.				
5	3/8" O.D. x 1/4" I.D.	POLY FLOW TUBING	NS	G.CP.C.	8' POLYTUBING BY NS (2 PLACES)			
6	3/8" O.D. x 1/4" I.D.	POLY FLOW TUBING	NS	G.CP.C.	20' POLYTUBING BY NS (3 PLACES)			
7	1-1/2"	GALV SCH. 40	G.CP.C.	G.CP.C.				
8	2"	PVC SCH. 80	G.CP.C.	G.CP.C.				
9	1-1/2"	GALV SCH. 40	G.CP.C.	G.CP.C.				
10	2"	PVC SCH. 80	G.CP.C.	G.CP.C.				
11	3"	PVC SCH. 80	G.CP.C.	G.CP.C.				
12	2"	PVC SCH. 80	G.CP.C.	G.CP.C.				
13	2"	GALV. SCH. 40	G.CP.C.	G.CP.C.				
14	3"	GALV. SCH. 40	G.CP.C.	G.CP.C.				
15	3"	PVC SCH. 80	G.CP.C.	G.CP.C.				
16	3"	GALV SCH. 40	G.CP.C.	G.CP.C.				
17	3"	PVC SCH. 40	G.CP.C.	G.CP.C.				
18	1-1/2"	GALV SCH. 40	G.CP.C.	G.CP.C.				
	LEGEND: # – NUMBER, Ø – DIAMETER, GALV. – GALVANIZED, SCH. – SCHEDULE							





- FOR PROPOSAL ONLY

- SHOWED	SLAB LAYOUT WITH TED WASH BAY DIMEN GRATING & SPECIFIC	NSIONS C ED WHO M		TO CLARIFY	NOIS	DATE	3/2/2016	
SHOULD	PROVIDE GRATING F	— F	BLOWER SYSTEM REVISED PUMP WIRE REVISED ELECTRICAL	SIZES	\geq		UPRVD	
DATE: 7 1	4 2016 DV: D IT		REVISED WIRING OF	BLOWER SYSTEM	ШШ	SCALE	3/16"=1'	235 WEST FLORENC INGLEWOOD, CALIFOR

 ICE AVENUE
 TELEPHONE:
 (310)
 412-7074

 ORNIA 90301
 FAX:
 (310)
 673-0274

	5 #14 WIRES & 1 #14 GND WIRES W. ø ² ^w CONDUIT (115V FOR SIGNAL)	3 #12 WIRES & 1 #12 GND WIRES		DR POWER) NOTES # 3)	2 #14 WIRES & 1 #14 GND WIRES W. \$7" CONDUIT (115V FOR SIGNAL)	
	SPEED CONTROL SYSTEM 2	W. Ø≵" CONDUIT TO EACH MOTOR (480V FOR POWER) }	BLOWER SYS CONTROL PA	(480V – . DISTR	AMP POWER FEEDER 3ø) FROM THE MAIN RIBUTION PANEL
	<	2 #14 WIRES & 1 #14 GND WIRES W. ø ² / ₄ conduit (115V FOR SIGNAL) 3 #14 WIRFS &	1 #14 GND WIRES W. \$\$" CONDUIT (115V FOR SIGNAL)			
AMP P 3ø) Fi RIBUTI(POWER FEEDER ROM THE MAIN ON PANEL	21 1 #14 	1 #14 W. Ø.			
	(CAPITAL TRANSIT				
	PO					
	F.L.A. (AMPERE)	WER REQUIREME 480V, 3¢, 60HZ MIN. C/B (AMPERE)	DISCONNECT (AMPERE) (TO BE PROVIDED BY	F.L.A. (AMPERE) (CONTROL SIGNAL)	MIN. C/B (AMPERE)	QTY. OF CONTROL PANEL
	F.L.A.	480V, 3ф, 60HZ MIN. C/B	DISCONNECT (AMPERE)	F.L.A.	MIN. C/B	QTY. OF CONTROL PANEL
	F.L.A. (AMPERE) 6.00 6.00	480V, 3ф, 60HZ MIN. C/B (AMPERE) 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 30.00	F.L.A. (AMPERE) (CONTROL SIGNAL) 	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	QTY. OF CONTROL PANEL
	F.L.A. (AMPERE) 6.00	480V, 3ф, 60HZ MIN. C/B (AMPERE)	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74	MIN. C/B (AMPERE) (CONTROL SIGNAL)	QTY. OF CONTROL PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0	480V, 3ф, 60HZ MIN. C/B (AMPERE) 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 30.00 60.00	F.L.A. (AMPERE) (CONTROL SIGNAL) 	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	QTY. OF CONTROL PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0	480V, 3φ, 60HZ MIN. C/B (AMPERE) 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.12 0.16	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	QTY. OF CONTROL PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 27.0 	480V, 3φ, 60HZ MIN. C/B (AMPERE) 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.12	MIN. C/B (AMPERE) (CONTROL SIGNAL)	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0	480V, 3φ, 60HZ MIN. C/B (AMPERE) 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0	480V, 3φ, 60HZ MIN. C/B (AMPERE) 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21	MIN. C/B (AMPERE) (CONTROL SIGNAL)	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 40.5625	480V, 3φ, 60HZ MIN. C/B (AMPERE) 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21	MIN. C/B (AMPERE) (CONTROL SIGNAL)	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 <	480V, 3φ, 60HZ MIN. C/B (AMPERE) 1.5625 <	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21	MIN. C/B (AMPERE) (CONTROL SIGNAL)	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 40.5625	480V, 3φ, 60HZ MIN. C/B (AMPERE) 1.5625 < 60.00 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21 4.80 0.00	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 100 14.00 <	480V, 3φ, 60HZ MIN. C/B (AMPERE) 1.5625 < 60.00 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21 4.80 	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 27.0 40.5625 21.00 14.00	480V, 3φ, 60HZ MIN. C/B (AMPERE) 1.5625 < 60.00 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21 4.80 0.21 0.00 0.00 0.00 0.00 0.00	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 27.0 40.5625 21.00 14.00	480V, 3φ, 60HZ MIN. C/B (AMPERE) 1.5625 < 60.00 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21 4.80 0.21 0.00 0.00 0.00 0.00 0.00	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 27.0 40.5625 21.00 14.00 126.00	480V, 3φ, 60HZ MIN. C/B (AMPERE) 1.5625 < 60.00 1.5625 < 60.00 50.00 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21 4.80 0.21 0.00 0.00 0.00 0.00 0.00	MIN. C/B (AMPERE) (CONTROL SIGNAL) -	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 27.0 40.5625 21.00 14.00 35.3125 126.00 126.00	480V, 3φ, 60HZ MIN. C/B (AMPERE) 1.5625 < 60.00 1.5625 < 60.00 0.3125 < 50.00	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21 4.80 0.21 0.00 0.00 0.00 0.00 0.00	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 27.0 40.5625 21.00 14.00 126.00	480V, 3φ, 60HZ MIN. C/B (AMPERE) 1.5625 < 60.00 1.5625 < 60.00 50.00 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 60.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21 4.80 0.21 0.00 0.00 0.00 0.00 0.00	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	
	F.L.A. (AMPERE) 6.00 6.00 27.0 27.0 40.5625 21.00 14.00 35.3125 126.00 126.00	480V, 3φ, 60HZ MIN. C/B (AMPERE) 1.5625 < 60.00 1.5625 < 60.00 1.5625 < 50.00 1.500	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 30.00 60.00 	F.L.A. (CONTROL SIGNAL) 0.74 0.74 0.74 0.12 0.16 0.00 0.8 2.04 0.21 0.00 0.8 2.04 0.21 0.00 0.00 0.012	MIN. C/B (AMPERE) (CONTROL SIGNAL) <td>PANEL</td>	PANEL
	F.L.A. (AMPERE) 6.00 6.00 27.0 27.0 40.5625 21.00 14.00 35.3125 126.00 126.00 7.60 7.60 7.60 7.60 7.60 TITLE	480V, 3φ, 60HZ MIN. C/B (AMPERE) 	DISCONNECT (AMPERE) (TO BE PROVIDED BY G.CE.C.) 30.00 30.00 60.00 	F.L.A. (AMPERE) (CONTROL SIGNAL) 0.74 0.74 0.74 0.74 0.12 0.16 0.00 0.00 0.8 2.04 0.21 4.80 0.00 0.0	MIN. C/B (AMPERE) (CONTROL SIGNAL) 	PANEL

9 #12 WIRES & 1 #10 GND WIRES W. Ø<mark>3</mark>" CONDUIT FOR EACH LINE