



Ministry of Public Works
Department of Works and Engineering

Request for Proposals
For
Asphalt Plant Site Works

ADDENDUM 2

Request for Proposals No.: **PN/2024-002-Q-AP**

Issued: **Tuesday August 20, 2024**

Submission Deadline: **Friday September 6, 2024 03:00:00 PM** Bermuda Local Time

ADDENDUM 2

1. The RFP Timetable has **not** been changed from Addenda #1.
2. Please refer to the attached 16 drawings that will replace previous drawings and provide extra details of the Works.
3. Please note that the design continues to be defined and another addenda should be expected including a bill of materials for the anchor bolts.
4. Please note that the site grading design may not be completed in time for the tender closing time. If this occurs the Pricing Form will be revised and re-issued to include a fixed allowance, set by the Owner, for the work and it will be re-measured as the Work progresses.

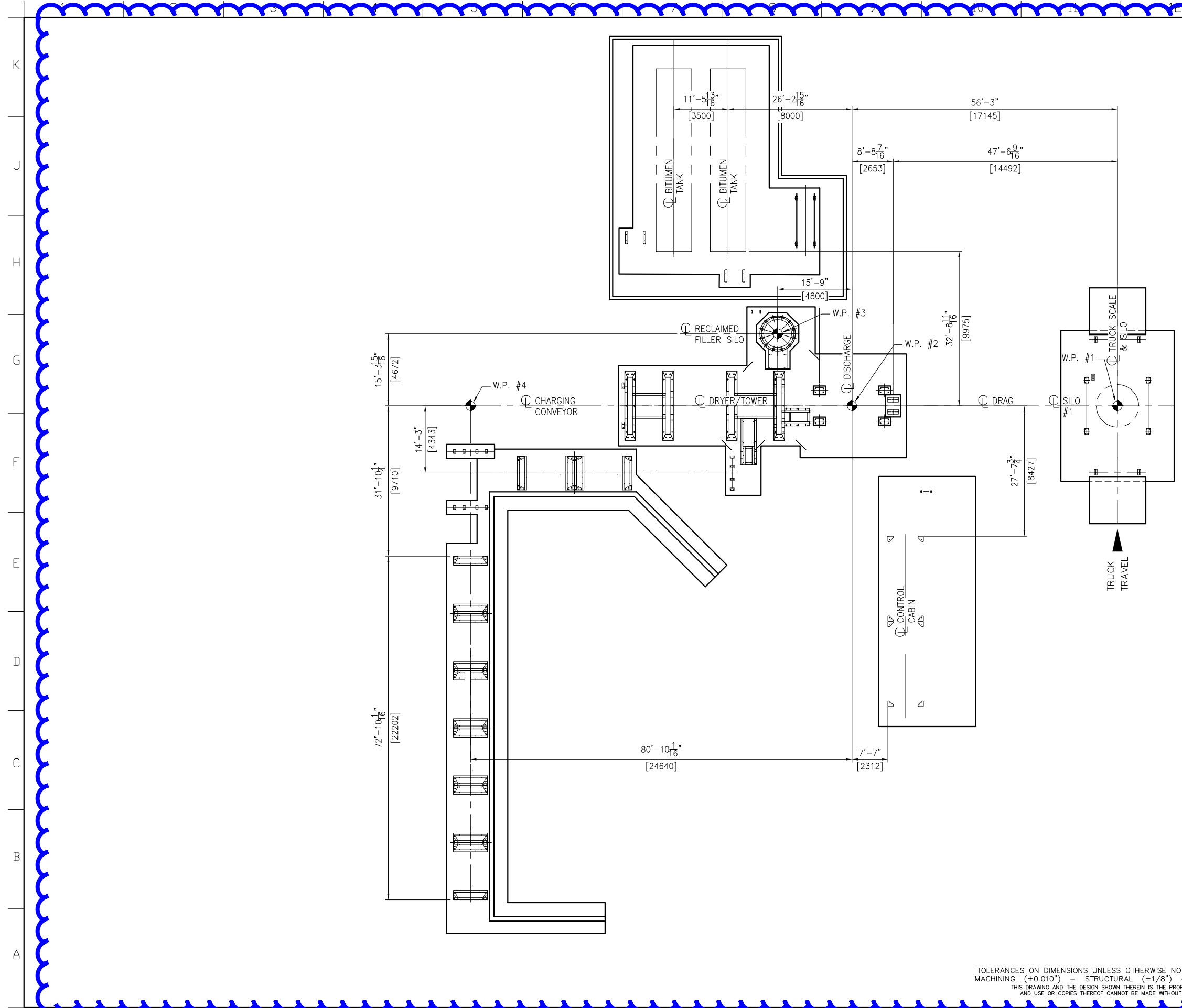
Questions Received to August 19, 2024

- Q1 Drawing A1.0 indicates 4 blue clouded areas defined as "Work Areas for this Tender", yet the Scope document indicates that there is site grading and filling to do. Please confirm that the full extent of this filling and grading is only within the blue clouded areas or otherwise define the entire area where other filling and grading is required.
- A1 We are working on completing the design for site grading.
- Q2 The new Access Road passes through the clouded Work Area in several locations. Is the Contractor expected to carry any costs in this respect?
- A2 No
- Q3 Drawing C1.6 indicates "For Information Only" please confirm that there are no demolition of existing Retaining Walls and Buildings and the like, or grading/filling to this area.
- A3 Correct.
- Q4 There are Boreholes indicated within the clouded Work Areas, please confirm that these are soil test boreholes or otherwise provide details for borehole construction.
- A4 No borehole work is needed, these are proposed geotechnical borehole locations, by others.
- Q5 Drawing F24-090-01 refers to Details "4" and "5". Could you please clarify which drawing these details are on or other provide these details.
- A5 Additional details are provided in this Addenda.
- Q6 On drawing F24-090-04, please confirm the height of the Wing Retaining Walls.
- A6 Drawings revised, please see drawing F24-090-10.

- Q7 Drawing A1.0 indicates 4 blue clouded areas defined as "Work Areas for this Tender", please indicate the significance of the "Dump truck with release agent sprayer" being clouded. This is also clouded on drawing C1.2. Is there some kind of foundation here? If so please provide structural details and top of concrete elevation for this foundation.
- A7 This will be a slab on grade with a wall to support the controls and a containment area for the agent, details are not available at this time. We expect the details to be ready well before the tender closes.
- Q8 Drawing A1.0 indicates 4 blue clouded areas defined as "Work Areas for this Tender". There do not appear to be any structural details for the "Plant fuel and bitumen tank" concrete bund slab or bund walls. Please provide structural details and top of concrete/bund wall elevations.
- A8 Details are included in this Addenda.
- Q9 Drawing A1.0 indicates 4 blue clouded areas defined as "Work Areas for this Tender". There do not appear to be any structural details for the "New Pay Loader Ramp for Screening Plant". Please provide structural details
- A9 Details are provided in Addenda 1.
- Q10 Astec drawing F24-090-08 (Page 26 of 35) indicates a foundation for "Reclaimed Filler Silo", but the location of this equipment is not shown on the A1.0 Site Plan/Location Plan nor is the foundation related to the WP2 setting out point. Please indicate where this equipment is to be situated.
- A10 Details are included in this Addenda.
- Q11 Astec drawings F24-090-01 to F24-090-09 (pages 19 to 27) typically indicate a top of foundation level of 100.00 which is obviously not related to the site plan levels. Please confirm that the level of the top of these foundations = 10.00. i.e. 100.00 is 10.00 and all other levels are relative.
- A11 Top of Concrete will be elev 10'-0" and a benchmark will be provided. Please delete 90ft
- Q12 Astec drawings F24-090-08 and F24-090-09 (pages 26 and 27) note that foundations are to have 12" of granular fill below them, however, the scope document seems to indicate founding on bare rock. Please clarify requirements.
- A12 The area under the footings need to be scrapped to reach bare rock under the existing asphalt, then backfilled to a level where the top of concrete sits at elev 10'-0" +/- as required
- Q13 Astec drawing 61102255 (page 17) appears to show some type of foundation for the screening plant (for arc wheel and support feet). If these are foundations, please provide structural details, dimensions and top of concrete elevations for these.
- A13 Details are included in this Addenda 1.

- Q14 Astec drawing 61102255 (page 17) showing the layout of the screening plant does not indicate any levels. Please provide elevations in this area.
- A14 Details are included in this Addenda 1.
- Q15 Assuming that all WP 2 points for the asphalt plant represent the same point, then the 5'-6" x 5'-6" foundation shown on Astec drawing F24-090-01 clashes with the large dryer tower foundation shown on Astec drawing F24-090-06. Please clarify.
- A15 Details are included in this Addenda.
- Q16 Please advise whether there is any duty relief on imported materials for this project.
- A16 100% duty free
- Q17 Will site Water and Electricity be provided by the Employer to the Contractor free of charge?
- A17 Yes, we will indicate locations during the site visit
- Q18 Will washroom facilities be made available by the Employer? If so, is there any requirement for the Contractor to maintain and clean the washrooms?
- A18 Yes, the facilities will be made available and they must be kept clean, serviced and supplied with paper, soap, etc during the duration of the Wprks.
- Q19 Please confirm the gauge, and finish to the Chain Link and the framing etc.. e.g. galvanized, plastic coated, painted etc.
- A19 Heavy gauge galvanized.
- Q20 Is there a Door & Window Schedule available for this Project, and/or specification for hopper windows, other window, doors and roller shutter.
- A20 Details are included in this Addenda 1.
- Q21 Drawing A2.1 indicates Solar Panels to the roof of the existing BELCO Vault within the blue border. Are the supply and installation of these to be included within our Scope? If so please provide specifications and mounting details.
- A21 Not in your scope.
- Q22 With regard to drawing MEP 1.1. Please provide specifications for the mechanical scope, electrical scope, plumbing scope, lighting and fire detection.
- A22 Details are included in this Addenda 1.
- Q23 With regard to drawing MEP 1.1. Is there an electrical panel in this building? Otherwise indicate where the electrical feed is to be taken from.
- A23 Details are included in this Addenda 1.

- Q24 With regard to drawing MEP 1.1. Is there already a water supply to this building? Otherwise indicate where the water feed is to be taken from.
- A24 Details are included in this Addenda 1.
- Q25 With regard to drawing MEP 1.1. Is the fire protection stand alone or is it part of a wider site fire protection system.
- A25 Fire protection is being designed, details to follow.
- Q26 Is the old BELCO vault empty of BELCO equipment, or will there be a need to involve BELCO for equipment isolation and removal.
- A26 It will be empty of all electrical equipment. It has been made dead by BELCO.



FDN. PLAN DWG.	EQUIPMENT DESCRIPTION
F24-090-02	NG-100 (1) 100T NEW GENERATION STORAGE SILO
F24-090-04	DRYER/TOWER, RECLAIMED FILLER SILO, & MISC. EQUIPMENT
F24-090-09	(6) COLD FEED BINS & (2) RAP BINS
F24-090-12	CONTROL CABIN
F24-090-13	BITUMEN TANKS & MISC. EQUIPMENT

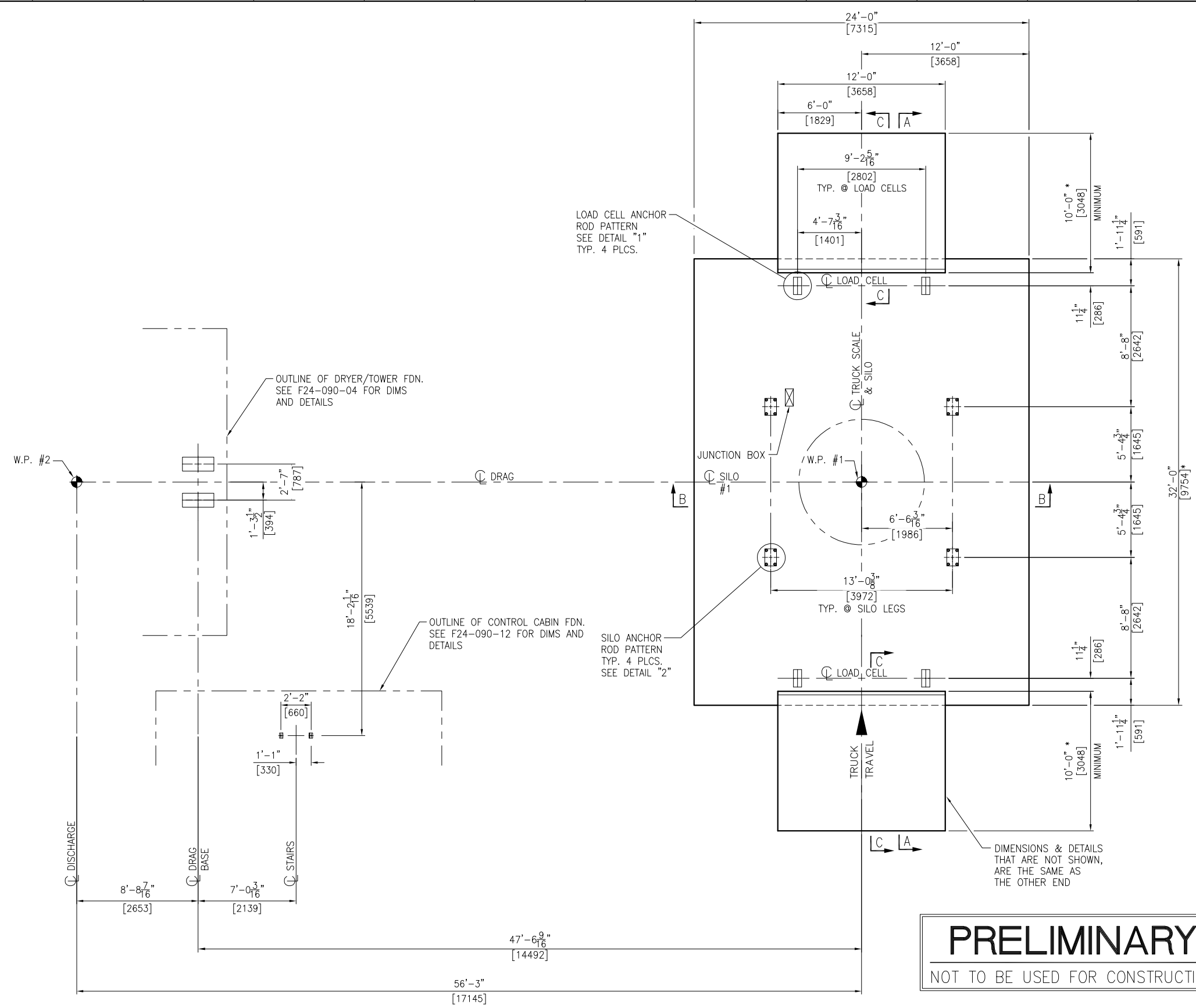
THIS KEY PLAN DRAWING HAS BEEN PROVIDED TO SHOW EQUIPMENT LOCATIONS. SEE THE DRAWING CHART LISTED HEREIN FOR INFORMATION CONCERNING CONCRETE FOUNDATION PLAN AND DETAIL DRAWINGS PROVIDED BY ASTEC, INC.

- NOTES:**
1. BENCHMARK ELEVATION 10'-0" [3048] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR SILO FOUNDATION.
 2. BASE ELEV. OF EQUIPMENT SHOWN HEREIN VARIES, SEE FOUNDATION PLAN & DETAIL DRAWINGS FOR INFORMATION.
 3. ITEMS SHOWN IN SOLID REPRESENT THE OUTLINE OF EQUIPMENT FOUNDATIONS UNLESS NOTED OTHERWISE.
 4. ITEMS SHOWN IN PHANTOM REPRESENT THE OUTLINE OF EQUIPMENT/EQUIPMENT SKID BASE FRAMES UNLESS NOTED OTHERWISE.
 5. THE AREA BENEATH RELOCATABLE EQUIPMENT IS TO BE FLAT AND LEVEL.
 6. THE OWNER IS RESPONSIBLE FOR GRADING THE SURROUNDING AREA (DETERMINED BY LOCAL TOPOGRAPHY) TO PROVIDE FOR DRAINAGE AWAY FROM EQUIPMENT.

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
MACHINING (+0.010") - STRUCTURAL (+1/8") - WELD SIZE (-0", +1/8").
THIS DRAWING AND THE DESIGN SHOWN THEREIN IS THE PROPERTY OF ASTEC, INC.
AND USE OR COPIES THEREOF CANNOT BE MADE WITHOUT WRITTEN CONSENT.

NO	REVISION	APPR	BY	DATE
4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME KEY PLAN				
MACHINE DRYER/TOWER, RECLAIMED FILLER SILO, & MISC. EQUIPMENT				
DWN	GREG WILLIAMS	CHKD	APPR	DATE 08/13/24
JOB NO	24-090	SHEET	SCALE NTS	DWG NO F24-090-01
SIMILAR TO DWG. NO. _____				



- NOTES:**
- FOUNDATIONS SHOWN HEREIN ARE DESIGNED FOR A MINIMUM SOIL BEARING PRESSURE OF 3,500 PSF. THE CUSTOMER IS RESPONSIBLE TO ENSURE THAT THE ALLOWABLE SOIL BEARING PRESSURE AT THE SITE EQUALS OR EXCEEDS THE DESIGN VALUE.
 - CONCRETE: F'C = 4,000 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE
 - REINF. STEEL: ASTM-A615, GRADE 60
 - EMBEDDED BOLTS, EMBEDDED PLATES, HEX NUTS AND ANCHOR RODS FURNISHED BY CUSTOMER. BOLTS/RODS ARE TO BE A MINIMUM 58,000 PSI TENSILE STRENGTH. NELSON STUDS ARE NOT PERMITTED TO BE USED.
 - BENCHMARK ELEVATION 10'-0" [3048] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR SILO FOUNDATION.
 - A FLATNESS TOLERANCE OF ±1/8" [3] OVER 10'-0" [3048] IS TO BE MAINTAINED FOR ALL CONCRETE SLAB SURFACES
 - PROVIDE 12" [305] MIN. OF A WELL DRAINING GRANULAR BASE BELOW CONCRETE FOOTING.
 - FOR KEY PLAN SEE DWG. F24-090-01.
 - WORK THIS DRAWING WITH DWGS. F24-090-03.
 - CONTRACTOR MAY USE #4 REBAR @ ~ 12" [305] CTRS. EACH WAY IN LIEU OF 4 X 4-W6 X W6 WWF.
 - FOR PLANT LAYOUT SEE DWG. D24-090-1A.
 - THE OWNER IS RESPONSIBLE FOR GRADING THE SURROUNDING AREA (DETERMINED BY LOCAL TOPOGRAPHY) TO PROVIDE FOR DRAINAGE AWAY FROM EQUIPMENT.
 - FOUNDATIONS SHOWN HEREIN HAVE BEEN DESIGNED FOR THE HAMILTON, BERMUDA SITE (W.O. 24-090) AND SHALL BE VOIDED FOR USE AT ANY OTHER SITE.
 - DO NOT SCALE. THIS DRAWING MAY BE A REDUCED COPY.

REBAR CONVERSION CHART

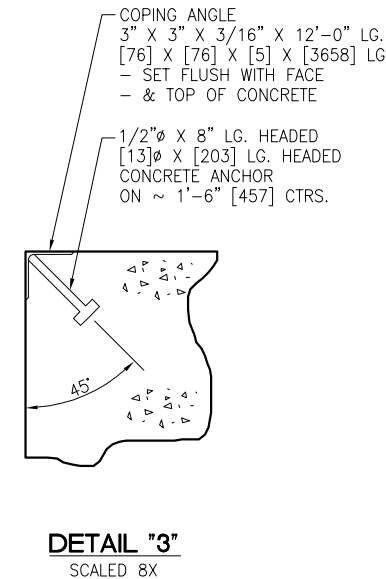
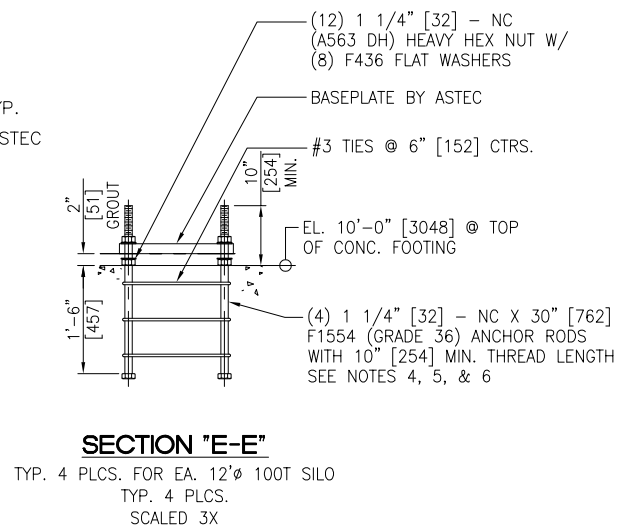
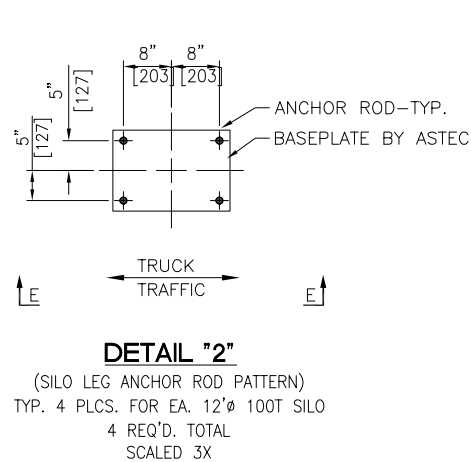
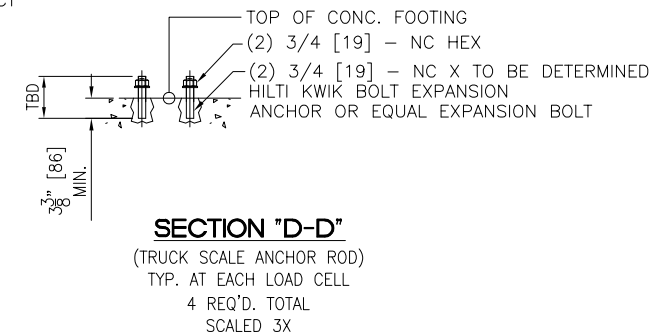
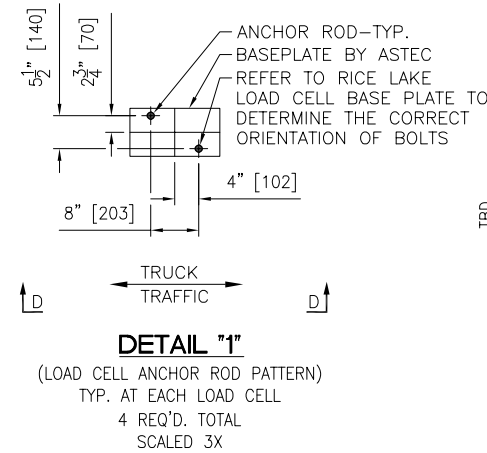
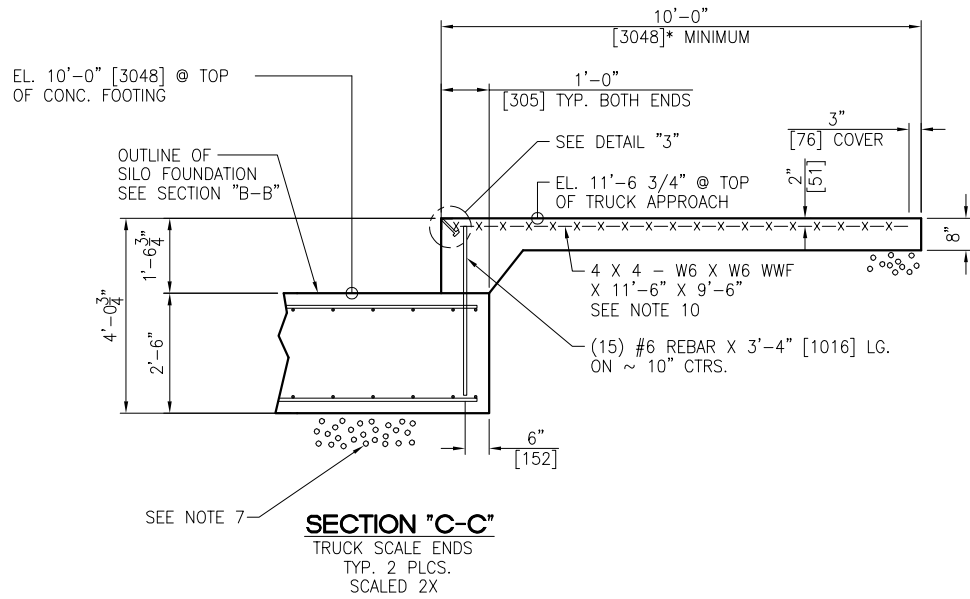
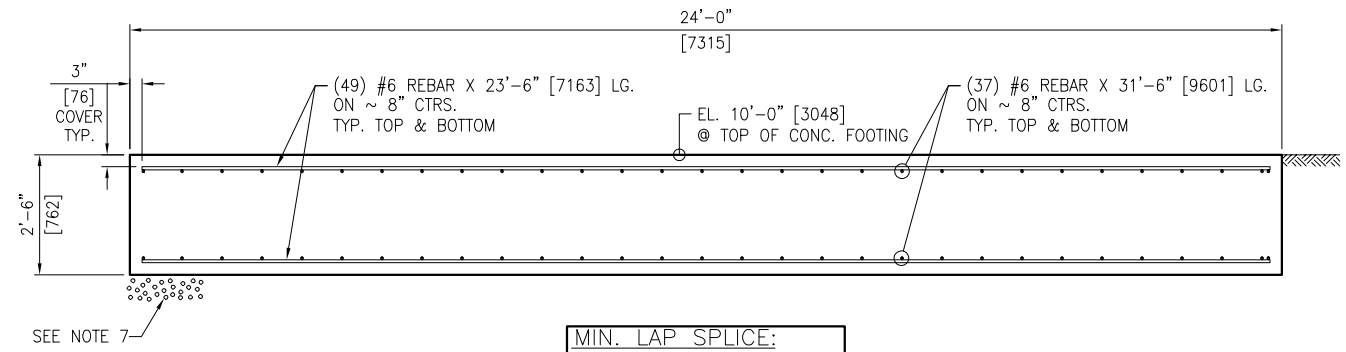
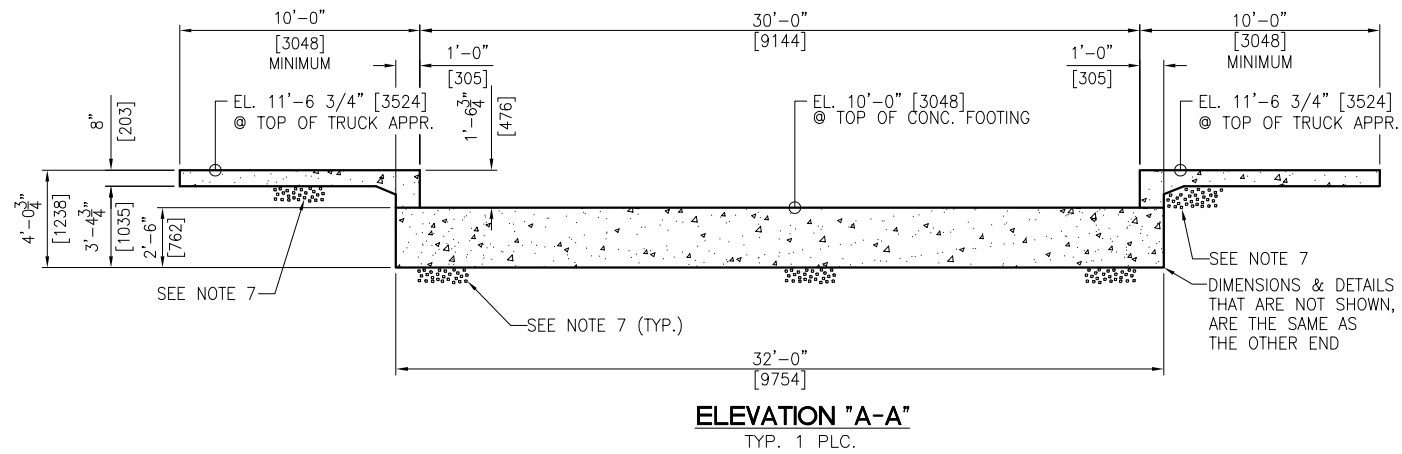
	IMPERIAL BAR DIA.	METRIC BAR DIA.
#4	.500	12.7
#6	.75	19
#8	1"	25.4
#9	1.125"	28.5

* CUSTOMER MUST ENSURE TRUCK APPROACH LENGTH COMPLIES WITH STATE AND LOCAL REGULATIONS

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

NO	REVISION	APPR	BY	DATE
ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION PLAN				
MACHINE NG-100 (1) 100T NEW GENERATION STORAGE SILO				
DWN	GREG WILLIAMS	CHKD	APPR	DATE 06/07/24
JOB NO	24-090	SHEET	SCALE 1/4"=1'-0"	DWG NO F24-090-02
<small>TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE: MACHINING (+0.010") - STRUCTURAL (±1/8") - WELD SIZE (-0", +1/8"). THIS DRAWING AND THE DESIGN SHOWN THEREIN IS THE PROPERTY OF ASTEC, INC. AND USE OR COPIES THEREOF CANNOT BE MADE WITHOUT WRITTEN CONSENT.</small>				

NOTES:
1. FOR NOTES SEE DWG. F24-090-2

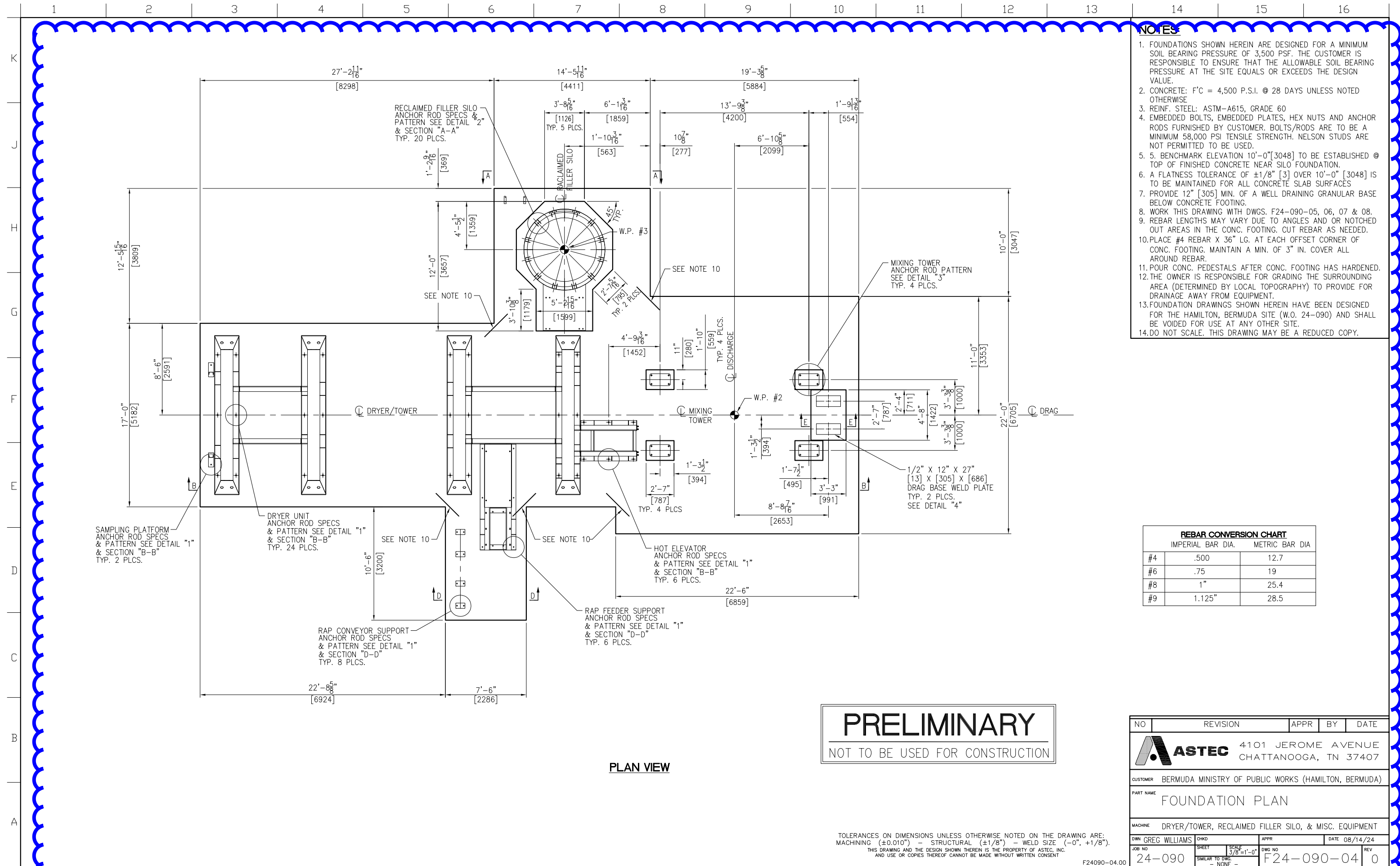


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4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE NG-100 (1) 100T NEW GENERATION STORAGE SILO				
DWN GREG WILLIAMS	CHKD	APPR	DATE 05/23/24	
JOB NO 24-090	SHEET 1/4=1'-0"	DWG NO F24-090-03	REV	

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 - CONCRETE: F'C = 4,500 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE
 - REINF. STEEL: ASTM-A615, GRADE 60
 - EMBEDDED BOLTS, EMBEDDED PLATES, HEX NUTS AND ANCHOR RODS FURNISHED BY CUSTOMER. BOLTS/RODS ARE TO BE A MINIMUM 58,000 PSI TENSILE STRENGTH. NELSON STUDS ARE NOT PERMITTED TO BE USED.
 - BENCHMARK ELEVATION 10'-0" [3048] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR SILO FOUNDATION.
 - A FLATNESS TOLERANCE OF ±1/8" [3] OVER 10'-0" [3048] IS TO BE MAINTAINED FOR ALL CONCRETE SLAB SURFACES
 - PROVIDE 12" [305] MIN. OF A WELL DRAINING GRANULAR BASE BELOW CONCRETE FOOTING.
 - WORK THIS DRAWING WITH DWGS. F24-090-05, 06, 07 & 08.
 - REBAR LENGTHS MAY VARY DUE TO ANGLES AND OR NOTCHED OUT AREAS IN THE CONC. FOOTING. CUT REBAR AS NEEDED.
 - PLACE #4 REBAR X 36" LG. AT EACH OFFSET CORNER OF CONC. FOOTING. MAINTAIN A MIN. OF 3" IN. COVER ALL AROUND REBAR.
 - POUR CONC. PEDESTALS AFTER CONC. FOOTING HAS HARDENED.
 - THE OWNER IS RESPONSIBLE FOR GRADING THE SURROUNDING AREA (DETERMINED BY LOCAL TOPOGRAPHY) TO PROVIDE FOR DRAINAGE AWAY FROM EQUIPMENT.
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	IMPERIAL BAR DIA.	METRIC BAR DIA
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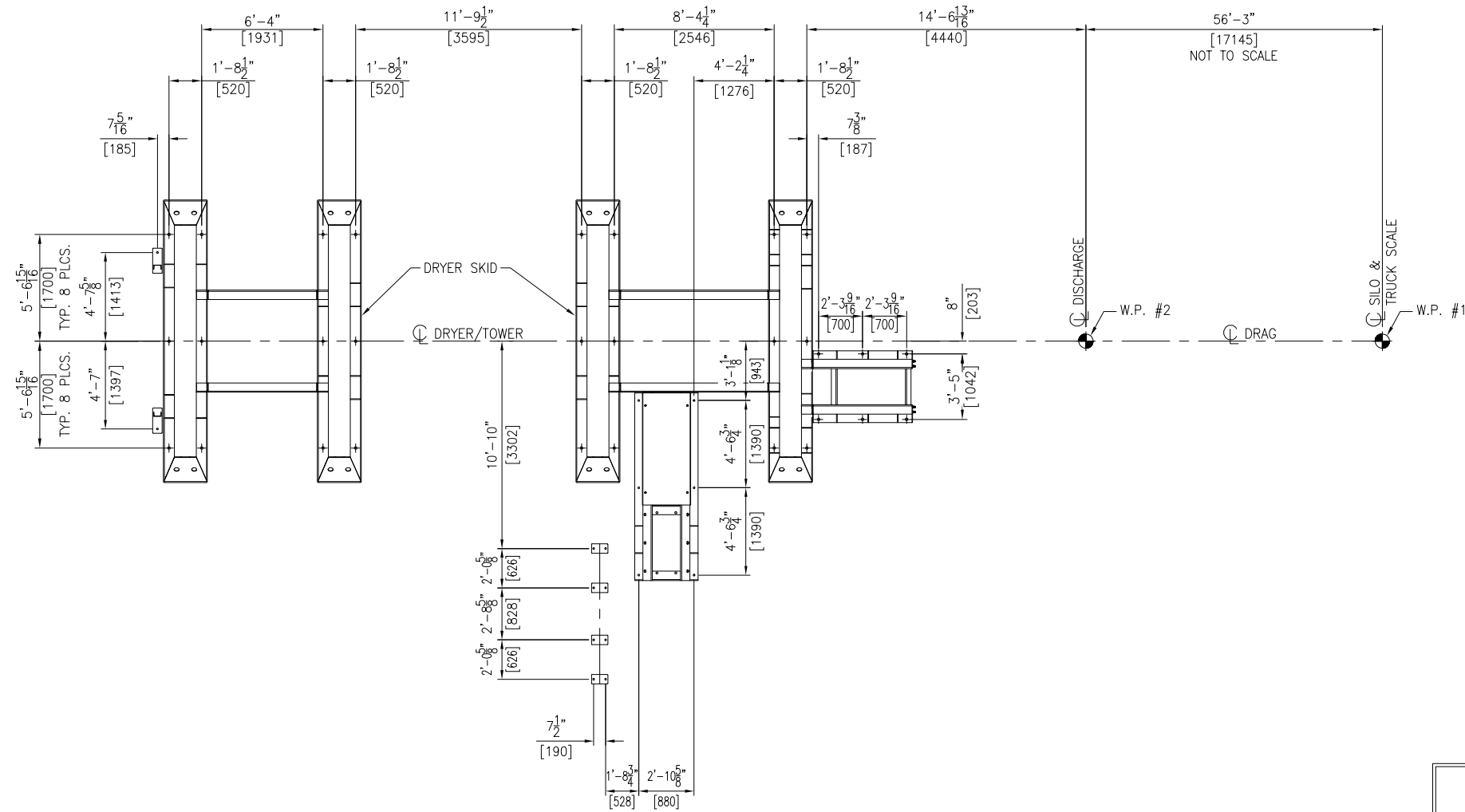
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PLAN VIEW

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
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ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION PLAN				
MACHINE DRYER/TOWER, RECLAIMED FILLER SILO, & MISC. EQUIPMENT				
DWN	GREG WILLIAMS	CHKD	APPR	DATE 08/14/24
JOB NO	24-090	SHEET	DWG NO	REV
		3/8" = 1'-0"	F24-090-04	0
		SIMILAR TO DWG. - NONE -		

NOTES:
1. FOR NOTES SEE DWG. F24-090-04




DETAIL "1"
DRYER/TOWER
ANCHOR PATTERN

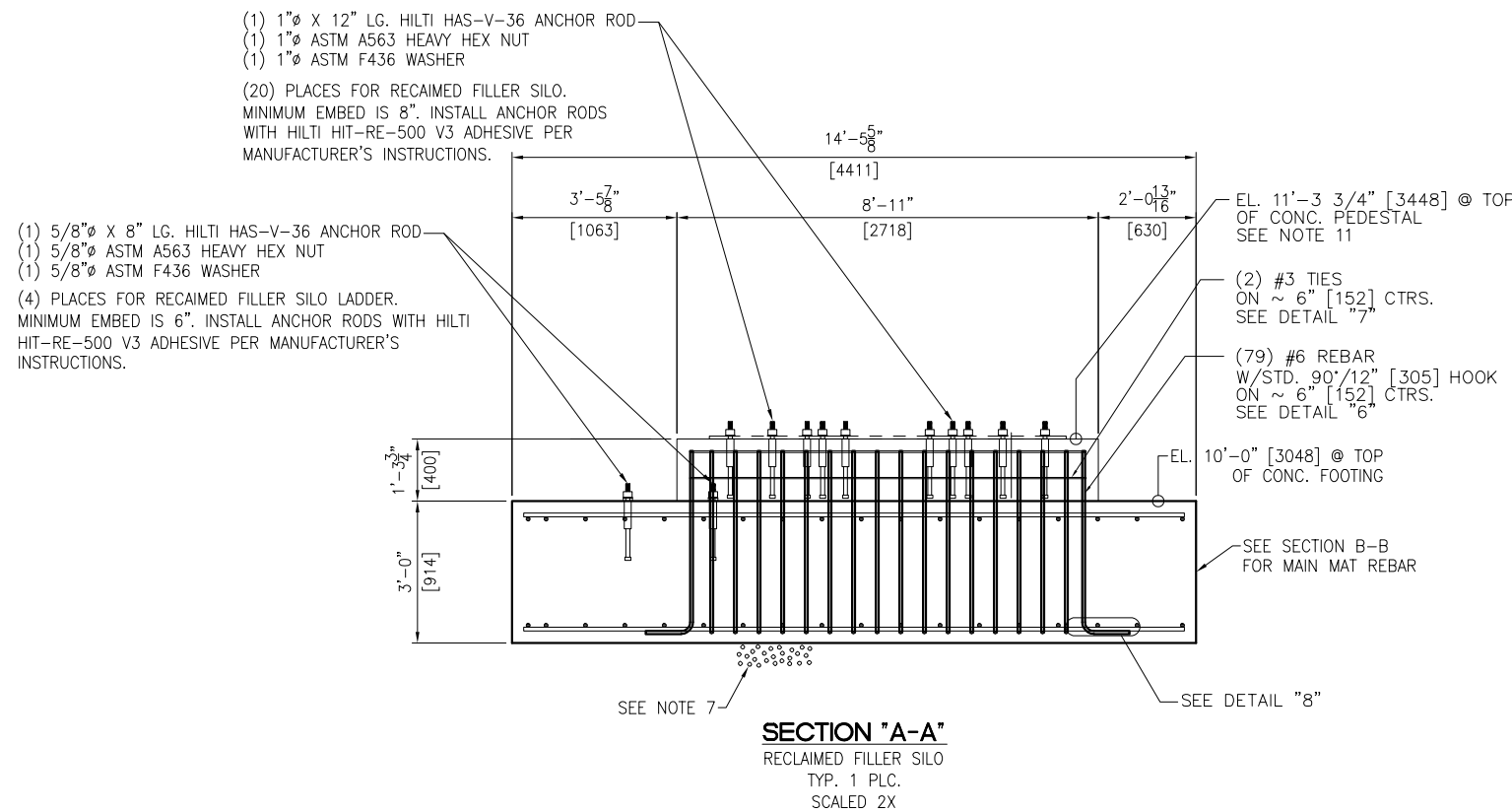
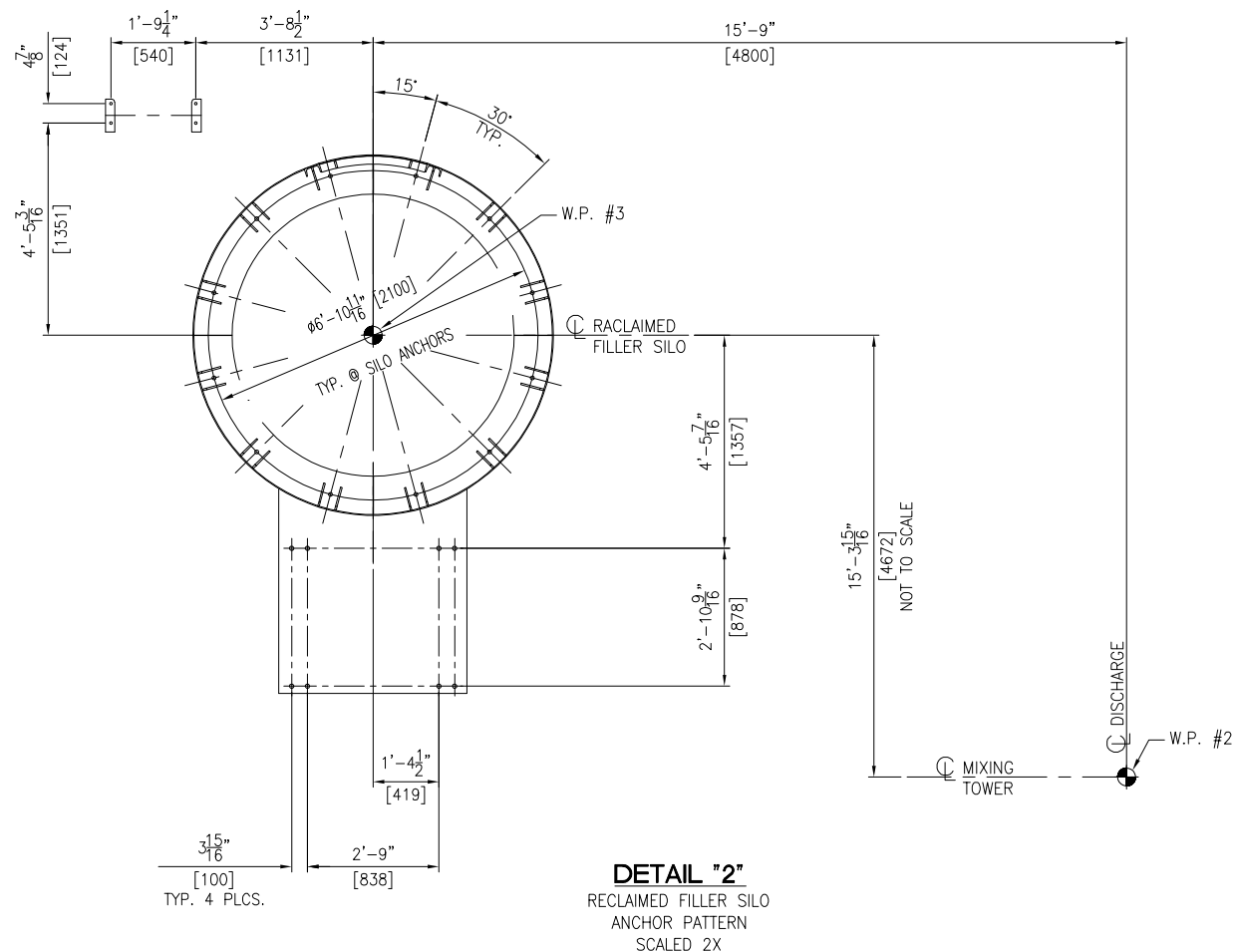
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F24090-05.00

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CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME ANCHOR PLAN				
MACHINE DRYER/TOWER, RECLAIMED FILLER SILO, & MISC. EQUIPMENT				
DWN	GREG WILLIAMS	CHKD		APPR
JOB NO	24-090	SHEET	3/8"=1'-0"	DWG NO
				F24-090-05
				REV 0

NOTES:
1. FOR NOTES SEE DWG. F24-090-04



- (1) 1"Ø X 12" LG. HILTI HAS-V-36 ANCHOR ROD
 - (1) 1"Ø ASTM A563 HEAVY HEX NUT
 - (1) 1"Ø ASTM F436 WASHER
- (20) PLACES FOR RECLAIMED FILLER SILO.
MINIMUM EMBED IS 8". INSTALL ANCHOR RODS WITH HILTI HIT-RE-500 V3 ADHESIVE PER MANUFACTURER'S INSTRUCTIONS.

- (1) 5/8"Ø X 8" LG. HILTI HAS-V-36 ANCHOR ROD
 - (1) 5/8"Ø ASTM A563 HEAVY HEX NUT
 - (1) 5/8"Ø ASTM F436 WASHER
- (4) PLACES FOR RECLAIMED FILLER SILO LADDER.
MINIMUM EMBED IS 6". INSTALL ANCHOR RODS WITH HILTI HIT-RE-500 V3 ADHESIVE PER MANUFACTURER'S INSTRUCTIONS.

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CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME ANCHOR PLAN & SECTION				
MACHINE DRYER/TOWER, RECLAIMED FILLER SILO, & MISC. EQUIPMENT				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/21/24	
JOB NO F24-090	SHEET 3/8=1'-0"	DWG NO F24-090-06	REV 0	

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
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NOTES
1. FOR NOTES SEE DWG. F24-090-04

- (1) 7/8"ØUNC X 20" [508] LG. ASTM F1554 (GRADE 36) HEADED ANCHOR WITH 6" [152] THREAD LENGTH
- (1) 7/8"Ø ASTM A563 HEAVY HEX NUT
- (1) 7/8"Ø ASTM F436 WASHER

(2) PLACES FOR SAMPLING PLATFORM. 1 ANCHOR PER LEG. EMBED HEADED ANCHOR WITH WILSON SLEEVE 15" INTO CONCRETE FOOTING. INSTALL WILSON SLEEVE PER MANUFACTURER'S INSTRUCTIONS.

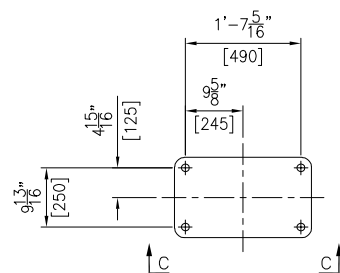
- (1) 1 1/2"ØUNC X 28" [711] LG. ASTM F1554 (GRADE 36) HEADED ANCHOR WITH 6" [152] THREAD LENGTH
- (1) 1 1/2"Ø ASTM A563 HEAVY HEX NUT
- (1) 1 1/2"Ø ASTM F436 WASHER

(24) PLACES FOR DRYER UNIT. 6 ANCHORS PER LEG.
(6) PLACES FOR HOT ELEVATOR.
EMBED HEADED ANCHOR WITH WILSON SLEEVE 23" INTO CONCRETE FOOTING. INSTALL WILSON SLEEVE PER MANUFACTURER'S INSTRUCTIONS.

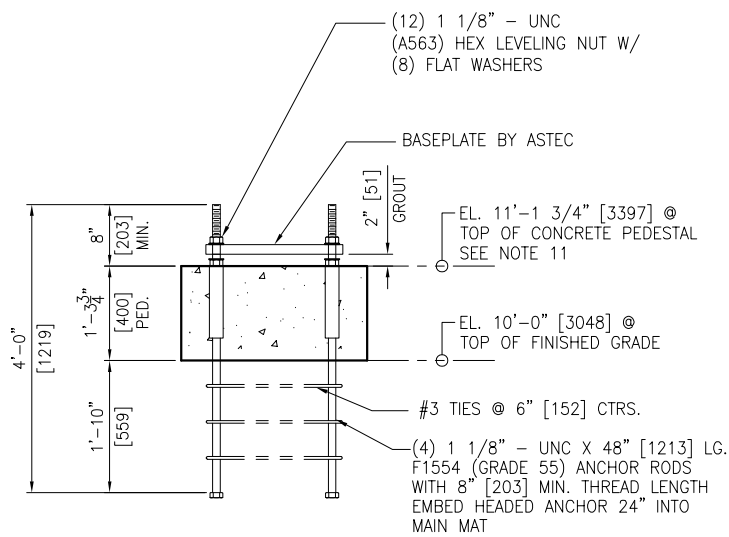
(VARIES) #8 REBAR X VARIES LG.
ON ~ 10" [254] CTRS.
TYP. TOP & BOTTOM
SEE NOTE 9

(74) #8 REBAR X VARIES LG.
ON ~ 10" [254] CTRS.
TYP. TOP & BOTTOM
SEE NOTE 9

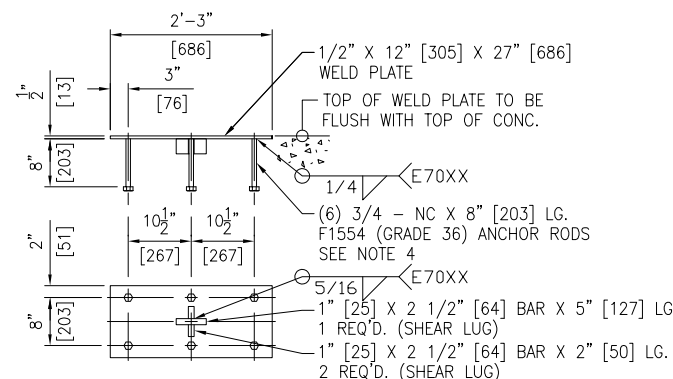
SECTION "B-B"
DRYER/TOWER & MISC. EQUIPMENT
TYP. 1 PLC.
SCALED 1X



DETAIL "3"
MIXING TOWER LEG ANCHOR ROD PATTERN
TYP. 4 PLCS.
SCALED 2X



SECTION "C-C"
MIXING TOWER
TYP. 4 PLCS.
SCALED 2X



DETAIL "4"
2 REQ'D
SCALED 2X

PRELIMINARY
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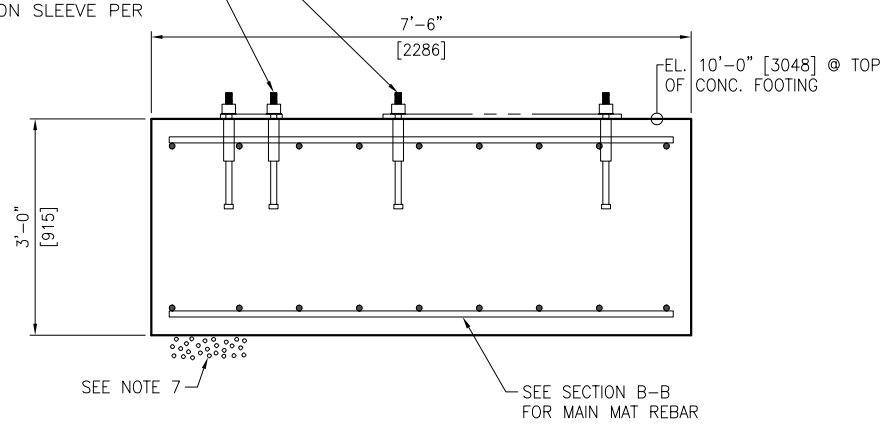
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F24090-07.00

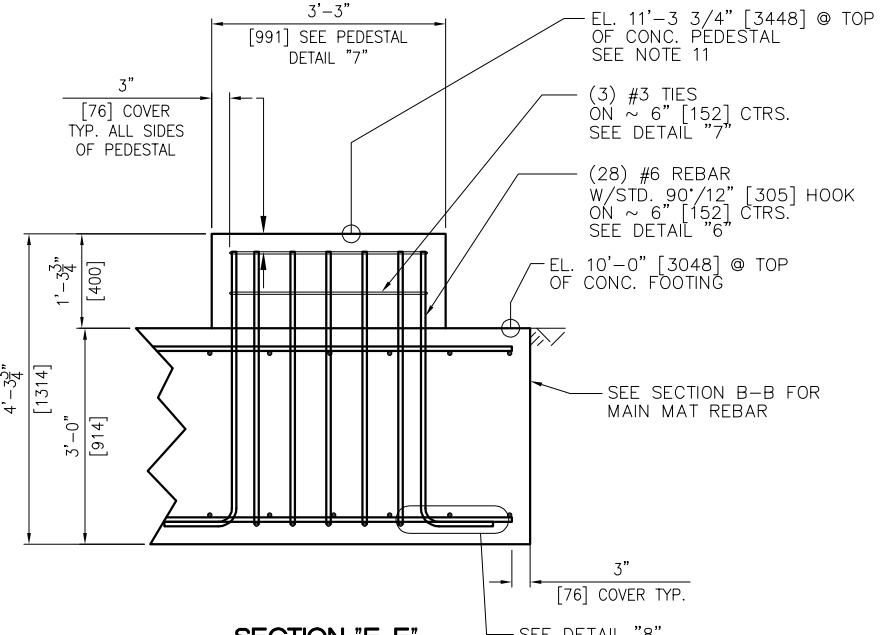
NO	REVISION	APPR	BY	DATE
ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE DRYER/TOWER, RECLAIMED FILLER SILO, & MISC. EQUIPMENT				
DWN GREG WILLIAMS	CHKD	APPR	DATE 08/13/24	
JOB NO 24-090	SHEET 3/8=1'-0"	DWG NO F24-090-07	REV 0	

NOTES:
1. FOR NOTES SEE DWG. F24-090-04

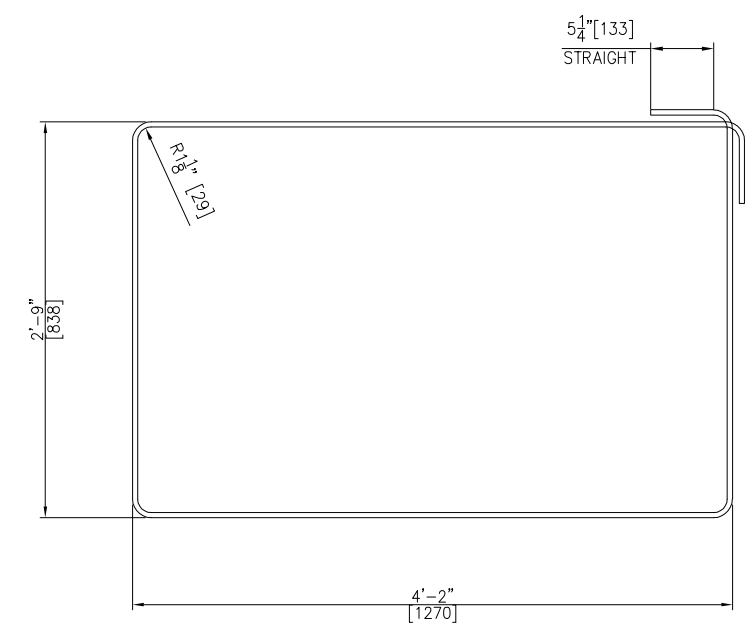
- (1) 7/8"Ø X 20" LG. ASTM F1554 (GRADE 36) HEADED ANCHOR WITH 6" THREAD LENGTH
- (2) 7/8"Ø ASTM A563 HEAVY HEX NUT
- (3) 7/8"Ø ASTM F436 WASHER
- (4) PLACES FOR RAP CONVEYOR SUPPORT.
- (5) PLACES FOR RAP FEEDER SUPPORT.
- (6) EMBED HEADED ANCHOR WITH WILSON SLEEVE 15" INTO CONCRETE FOOTING. INSTALL WILSON SLEEVE PER MANUFACTURER'S INSTRUCTIONS.



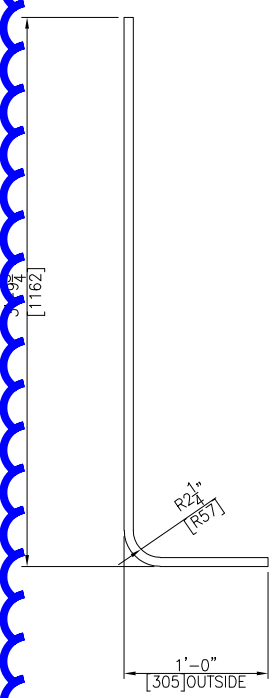
SECTION "D-D"
RAP CONVEYOR & RAP FEEDER SUPPORTS
TYP. 1 PLC.
SCALED 2X



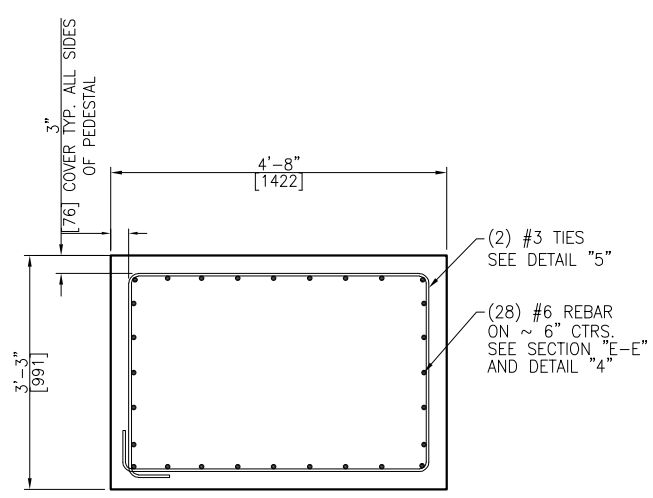
SECTION "E-E"
DRAG BASE PEDESTAL
TYP. 1 PLC.
SCALED 2X



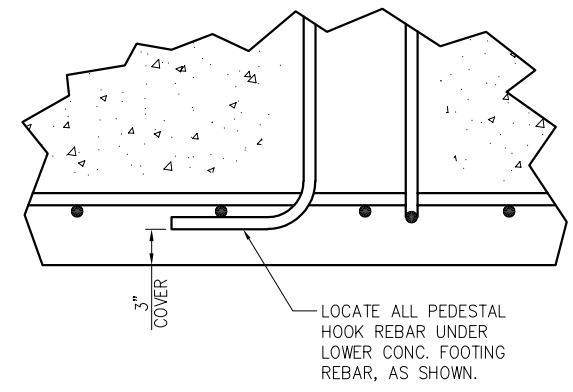
DETAIL "5"
#3 TIES - 2 REQ'D. TOTAL
SCALED 4X



DETAIL "6"
#6 REBAR W/STD. 90° HOOK
112 REQ'D. TOTAL
SCALED 4X



DETAIL "7"
4'-8" [1422] X 3'-3" [991] X 15 3/4" [400] TALL
TYP. 1 PLC.
SCALED 4X



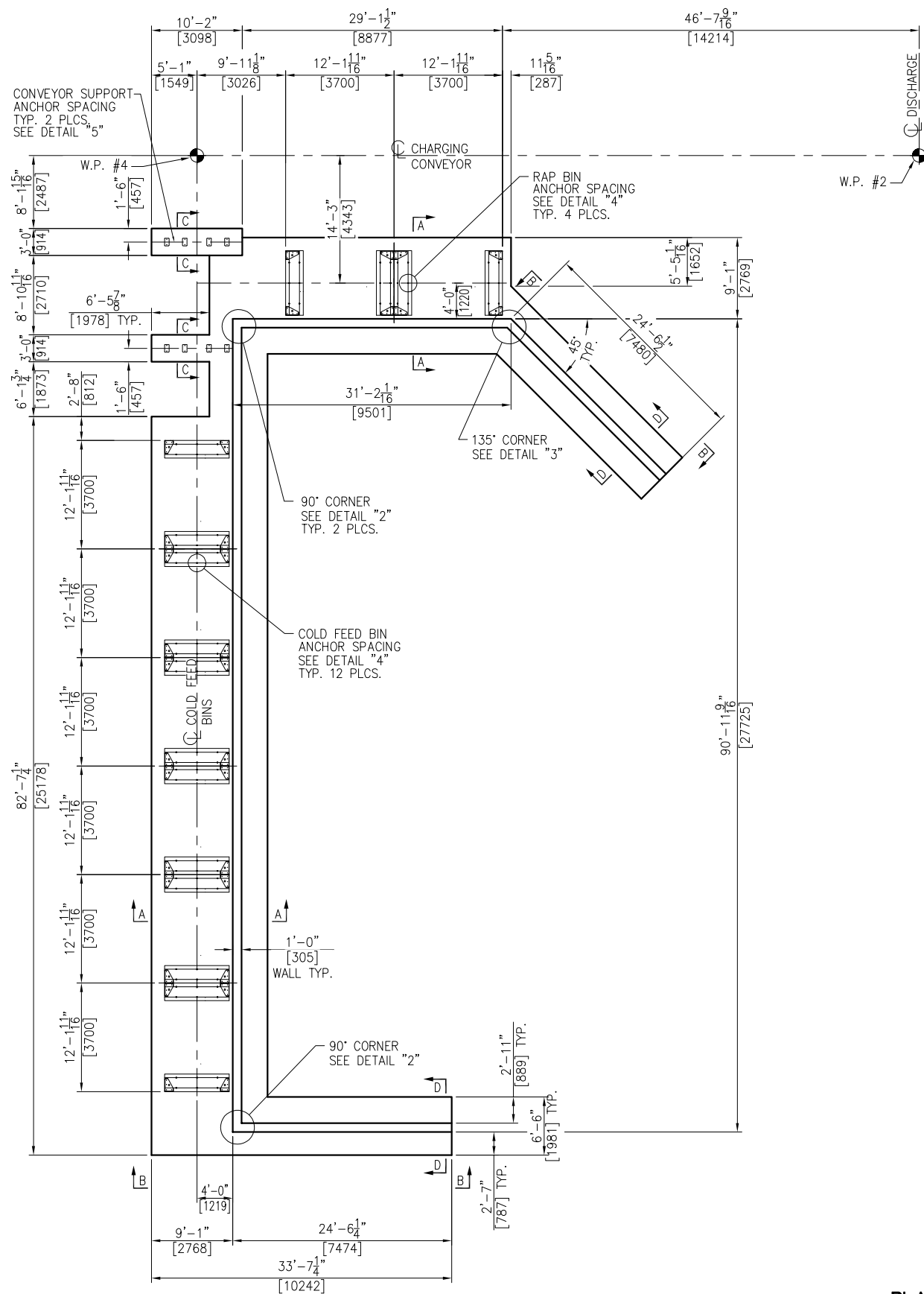
DETAIL "8"
SCALED 4X

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

NO	REVISION	APPR	BY	DATE
ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE DRYER/TOWER, RECLAIMED FILLER SILO, & MISC. EQUIPMENT				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/21/24	
JOB NO 24-090	SHEET 3/8=1'-0"	DWG NO F24-090-08	REV 0	

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F24090-08.00



- NOTES:**
- FOUNDATIONS SHOWN HEREIN ARE DESIGNED FOR A MINIMUM SOIL BEARING PRESSURE OF 3,500 PSF. THE CUSTOMER IS RESPONSIBLE TO ENSURE THAT THE ALLOWABLE SOIL BEARING PRESSURE AT THE SITE EQUALS OR EXCEEDS THE DESIGN VALUE.
 - CONCRETE: F'C = 4,000 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE
 - REINF. STEEL: ASTM-A615, GRADE 60
 - EMBEDDED BOLTS, EMBEDDED PLATES, HEX NUTS AND ANCHOR RODS FURNISHED BY CUSTOMER. BOLTS/RODS ARE TO BE A MINIMUM 58,000 PSI TENSILE STRENGTH. NELSON STUDS ARE NOT PERMITTED TO BE USED.
 - BENCHMARK ELEVATION 10'-0" [3048] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR SILO FOUNDATION.
 - A FLATNESS TOLERANCE OF ±1/8" [3] OVER 10'-0" [3048] IS TO BE MAINTAINED FOR ALL CONCRETE SLAB SURFACES
 - PROVIDE 12" [305] MIN. OF A WELL DRAINING GRANULAR BASE BELOW CONCRETE FOOTING.
 - WORK THIS DRAWING WITH DWGS. F24-090-10 & 11.
 - POUR CONCRETE RETAINING WALL AFTER CONCRETE FOOTING HAS HARDENED.
 - REBAR LENGTHS MAY VARY DUE TO ANGLES AND OR NOTCHED OUT AREAS IN THE CONC. FOOTING. CUT REBAR AS NEEDED.
 - PROVIDE CONTROL JOINTS @ ~ 10' SPACINGS.
 - DO NOT PLACE RETAINING WALL WEEP HOLES NEAR OR AROUND EQUIPMENT LEGS. EQUIPMENT LEGS OR ANY OTHER OBJECTS LOCATED IN THE RUNOFF PATH MAY CAUSE GRAVEL BUILD UP AND OR DRAIN CLOGGING.
 - THE OWNER IS RESPONSIBLE FOR GRADING THE SURROUNDING AREA (DETERMINED BY LOCAL TOPOGRAPHY) TO PROVIDE FOR DRAINAGE AWAY FROM EQUIPMENT.
 - FOUNDATION DRAWINGS SHOWN HEREIN HAVE BEEN DESIGNED FOR THE HAMILTON, BERMUDA SITE (W.O. 24-090) AND SHALL BE VOIDED FOR USE AT ANY OTHER SITE.
 - DO NOT SCALE. THIS DRAWING MAY BE A REDUCED COPY.

REBAR CONVERSION CHART

	IMPERIAL BAR DIA.	METRIC BAR DIA
#4	.500	12.7
#6	.75	19
#8	1"	25.4
#9	1.125"	28.5

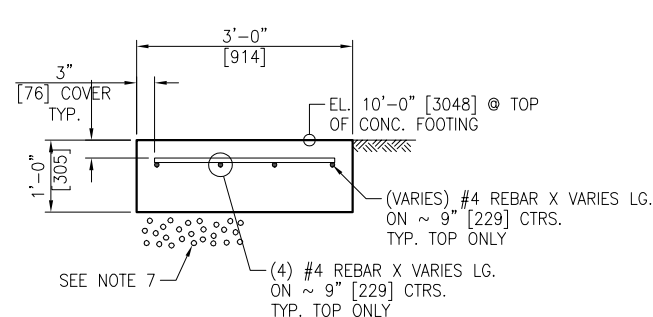
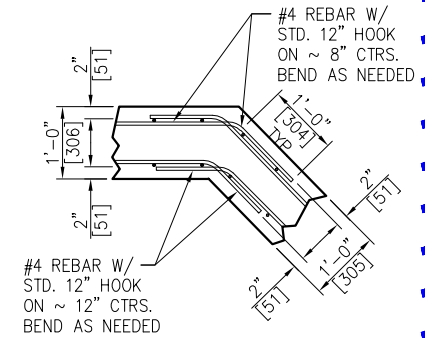
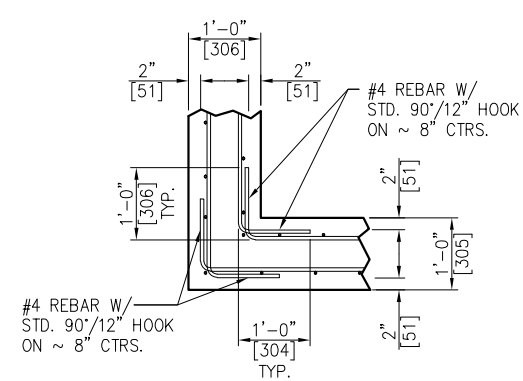
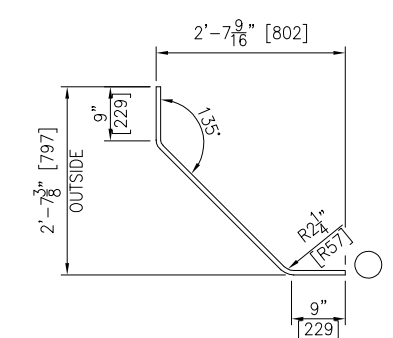
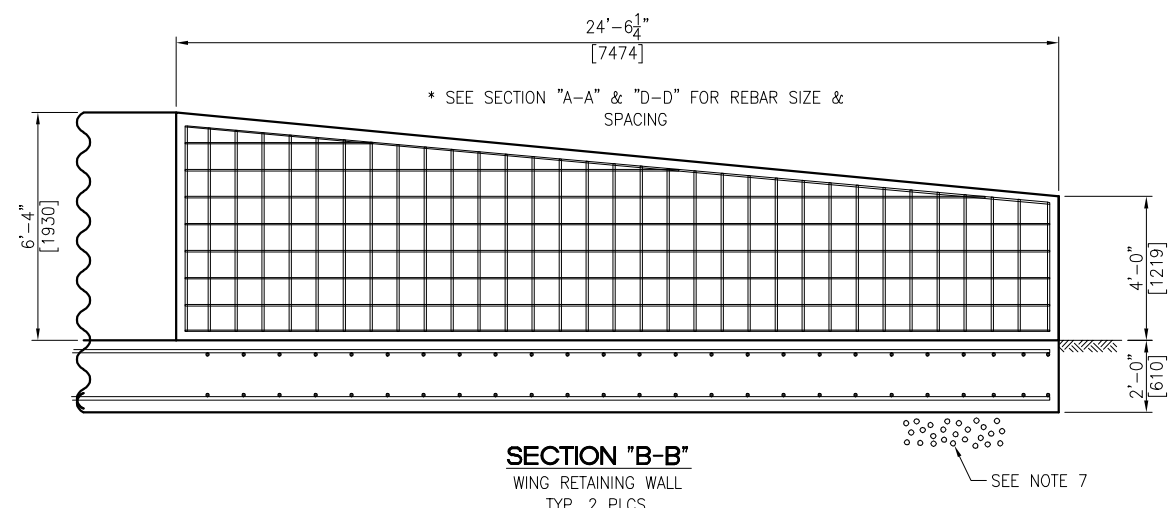
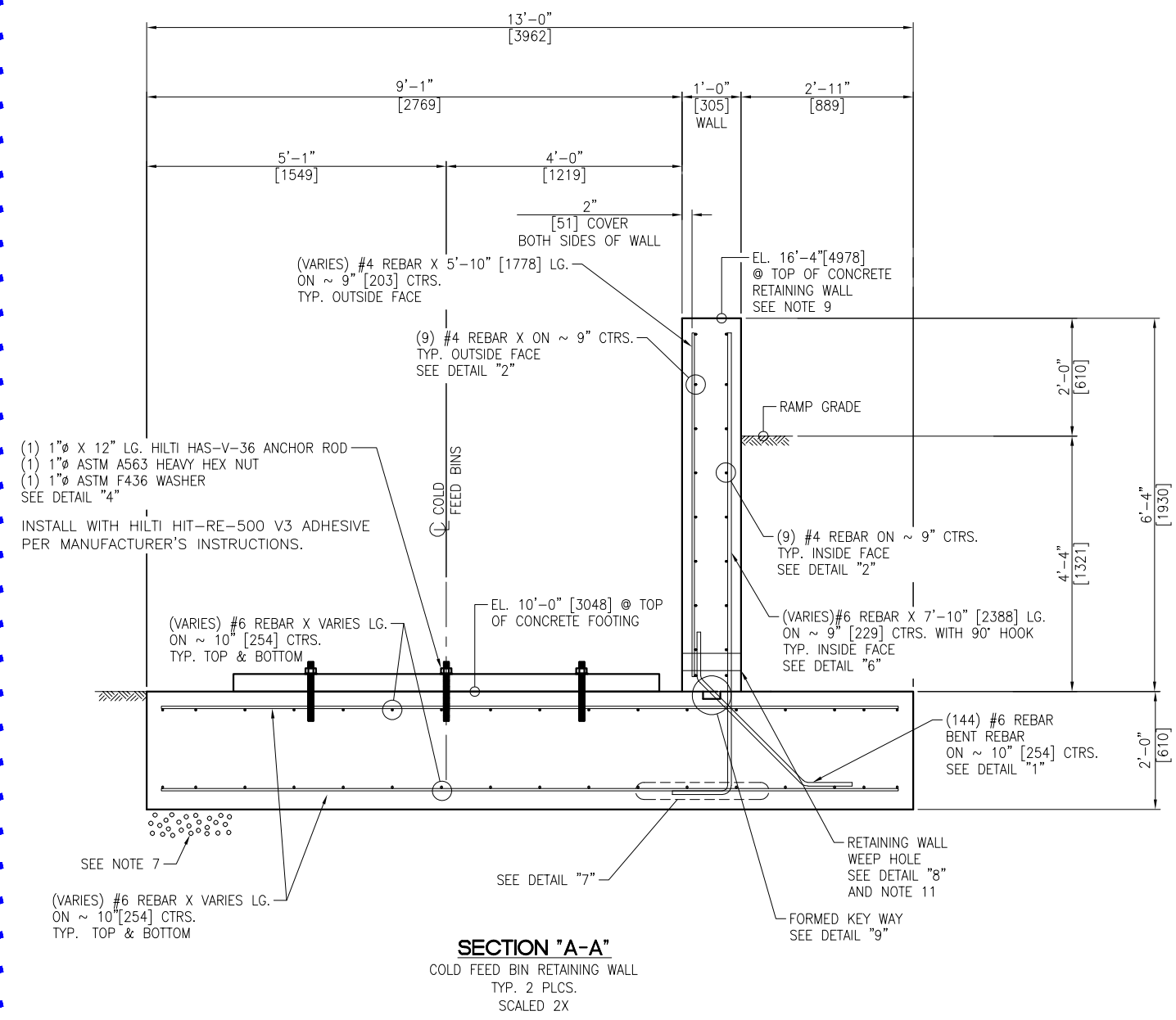
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

PLAN VIEW

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
 MACHINING (+0.010") - STRUCTURAL (±1/8") - WELD SIZE (-0", +1/8").
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NO	REVISION	APPR	BY	DATE
ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION PLAN				
MACHINE (6) COLD FEED BINS & (2) RAP BINS				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/04/24	
JOB NO 24-090	SHEET 3/16=1'-0"	DWG NO F24-090-09	REV	

NOTES:
 1. FOR NOTES SEE DWG. F24-090-0

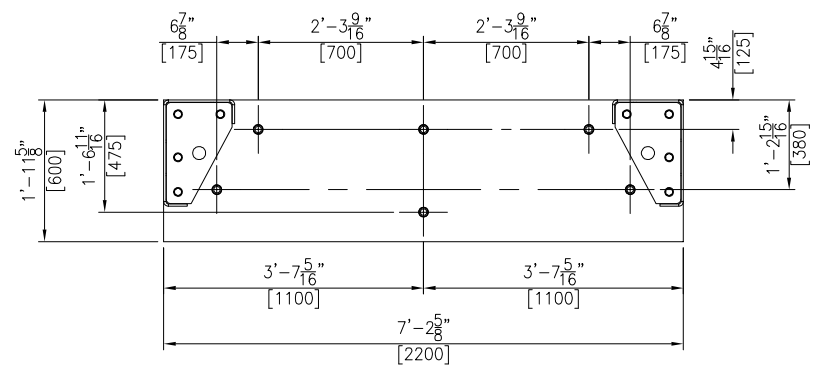


PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION

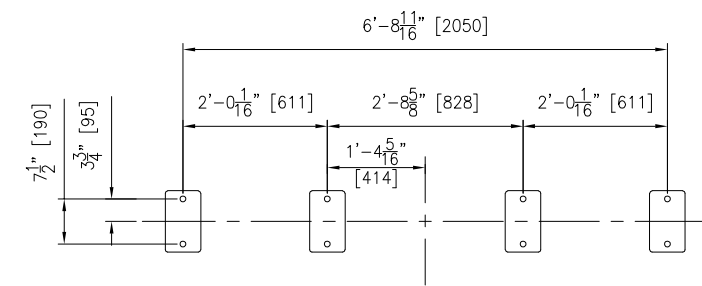
NO	REVISION	APPR	BY	DATE
		4101 JEROME AVENUE CHATTANOOGA, TN 37407		
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE (6) COLD FEED BINS & (2) RAP BINS				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/04/24	
JOB NO 24-090	SHEET 3/8=1'-0"	DWG NO F24-090-10	REV	

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
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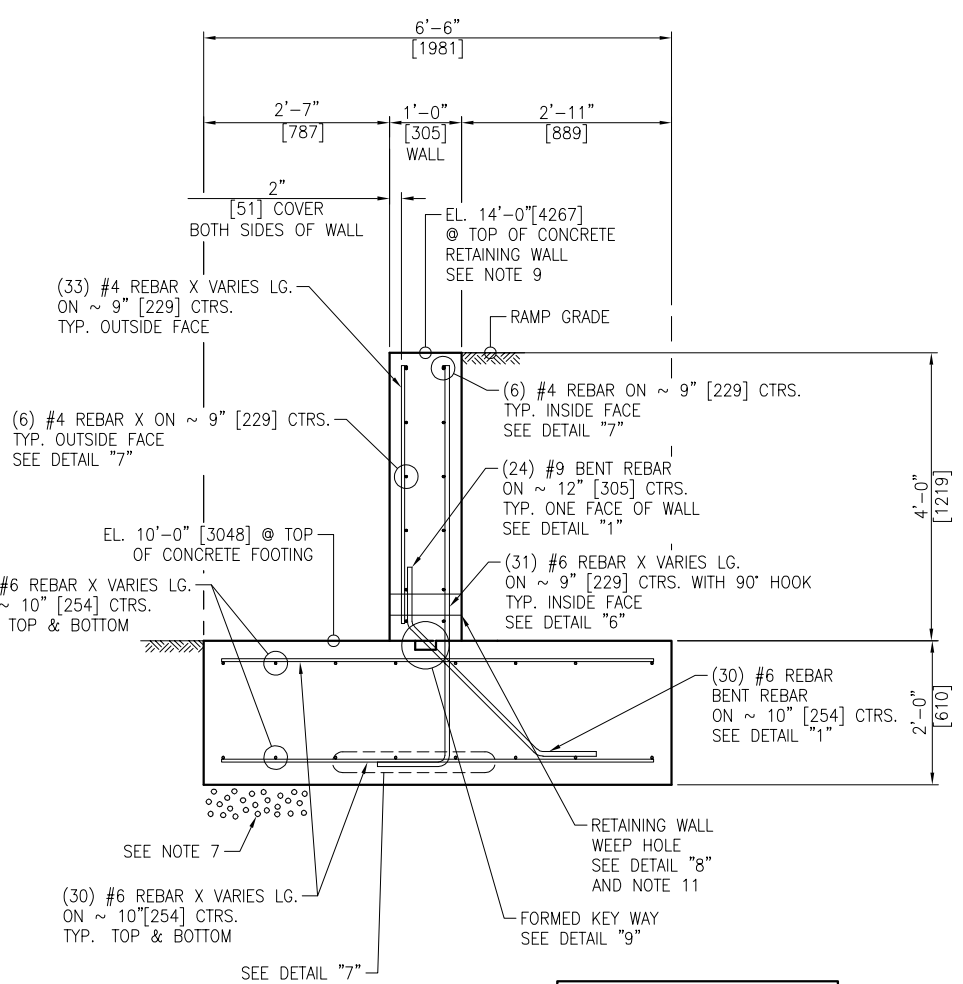
NOTES:
1. FOR NOTES SEE DWG. F24-090-09.



DETAIL "4"
COLD FEED & RAP BINS ANCHOR PATTERN
TYP. 16 PLCS.
SCALED 2X



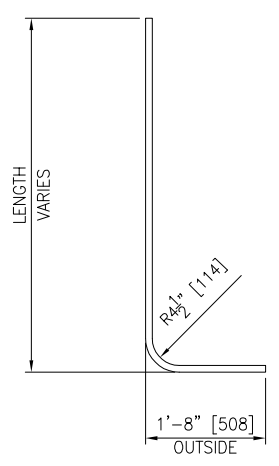
DETAIL "5"
CONVEYOR SUPPORT ANCHOR PATTERN
TYP. 2 PLCS.
SCALED 2X



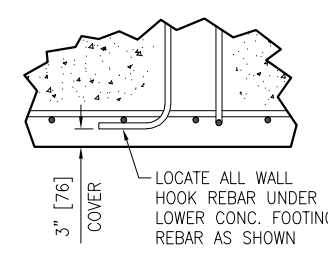
SECTION "D-D"
WING WALL
TYP. 2 PLCS.
SCALED 2X

MINIMUM LAP SPLICE:
#9 REBAR = 26" [660] TOP
#9 REBAR = 20" [504] BOTTOM

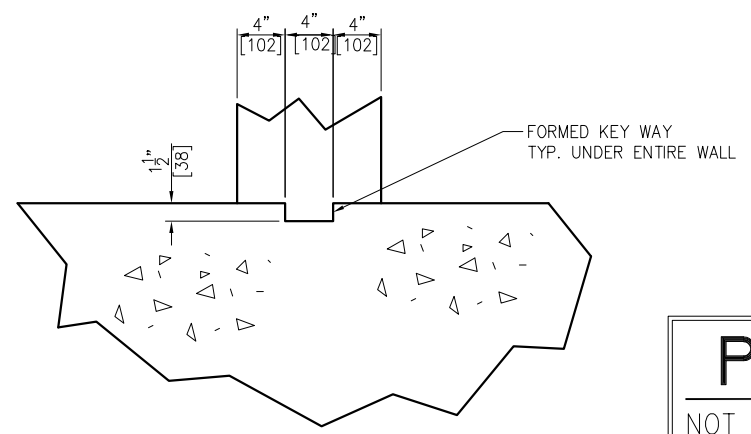
MINIMUM LAP SPLICE:
#6 REBAR = 37" [940] TOP
#6 REBAR = 28" [711] BOTTOM



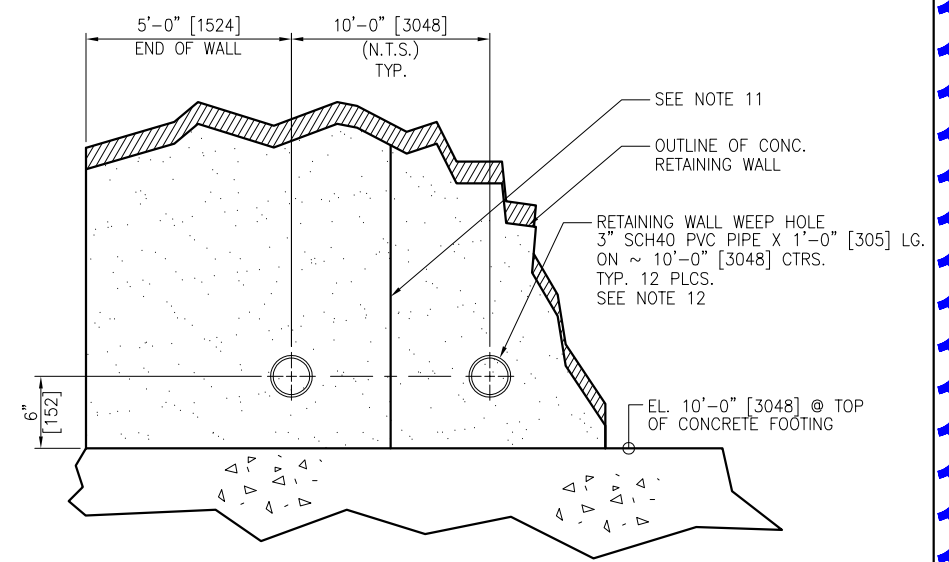
DETAIL "6"
#9 REBAR W/STD. 90' HOOK
172 REQ'D
SCALED 2X



DETAIL "7"
SCALED 2X



DETAIL "9"
TYP. UNDER ENTIRE WALL
SCALED 4X



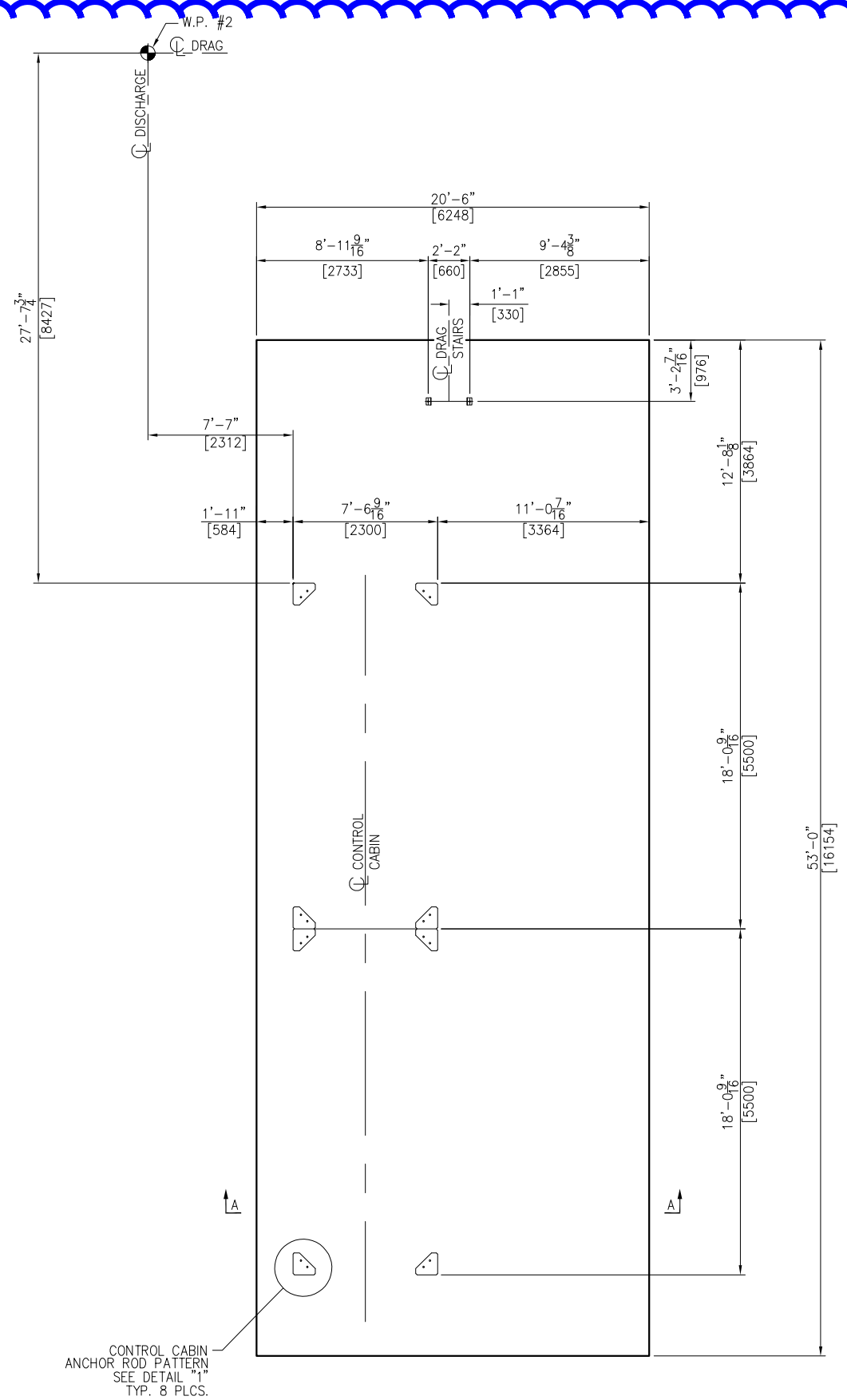
DETAIL "8"
COLD FEED BIN RETAINING WALL WEEP HOLE
TYP. 1 PLCS.
SCALED 4X

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

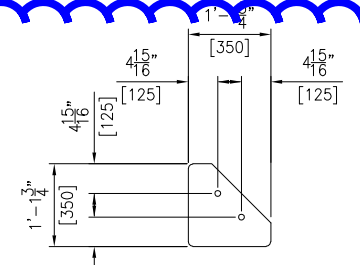
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
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NO	REVISION	APPR	BY	DATE
		4101 JEROME AVENUE CHATTANOOGA, TN 37407		
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE (6) COLD FEED BINS & (2) RAP BINS				
DWN	GREG WILLIAMS	CHKD	APPR	DATE 06/04/24
JOB NO	24-090	SHEET	SCALE 3/8"=1'-0"	DWG NO F24-090-11
				REV 0

- NOTES:**
- FOUNDATIONS SHOWN HEREIN ARE DESIGNED FOR A MINIMUM SOIL BEARING PRESSURE OF 3,500 PSF. THE CUSTOMER IS RESPONSIBLE TO ENSURE THAT THE ALLOWABLE SOIL BEARING PRESSURE AT THE SITE EQUALS OR EXCEEDS THE DESIGN VALUE.
 - CONCRETE: F'C = 4,000 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE
 - REINF. STEEL: ASTM-A615, GRADE 60
 - EMBEDDED BOLTS, EMBEDDED PLATES, HEX NUTS AND ANCHOR RODS FURNISHED BY CUSTOMER. BOLTS/RODS ARE TO BE A MINIMUM 58,000 PSI TENSILE STRENGTH. NELSON STUDS ARE NOT PERMITTED TO BE USED.
 - BENCHMARK ELEVATION 10'-0" [3048] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR SILO FOUNDATION.
 - A FLATNESS TOLERANCE OF ±1/8" [3] OVER 10'-0" [3048] IS TO BE MAINTAINED FOR ALL CONCRETE SLAB SURFACES
 - PROVIDE 12" [305] MIN. OF A WELL DRAINING GRANULAR BASE BELOW CONCRETE FOOTING.
 - FOR KEY PLAN SEE DWG. F24-090-01.
 - THE OWNER IS RESPONSIBLE FOR GRADING THE SURROUNDING AREA (DETERMINED BY LOCAL TOPOGRAPHY) TO PROVIDE FOR DRAINAGE AWAY FROM EQUIPMENT.
 - FOUNDATION DRAWINGS SHOWN HEREIN HAVE BEEN DESIGNED FOR THE HAMILTON, BERMUDA SITE (W.O. 24-090) AND SHALL BE VOIDED FOR USE AT ANY OTHER SITE.
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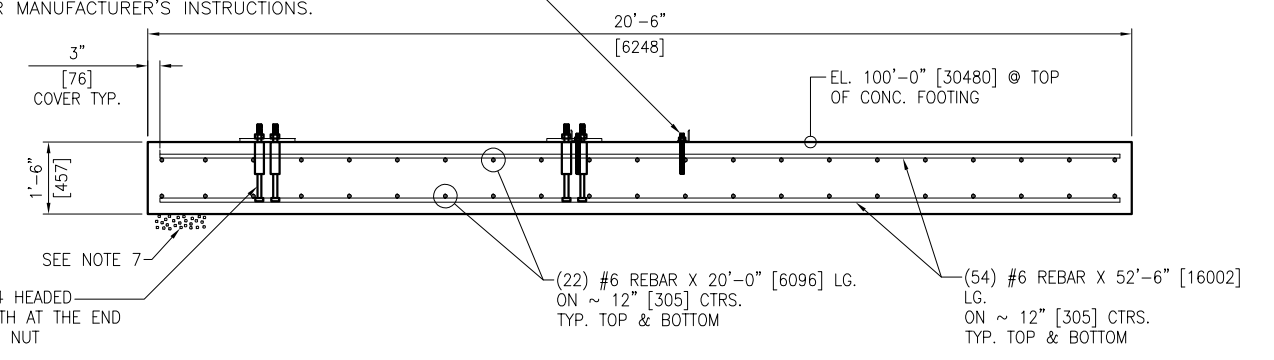
PLAN VIEW



DETAIL "1"
CONTROL CABIN ANCHOR ROD PATTERN
TYP. 8 PLCS.
SCALED 3X

- (1) 3/4" X 10" LG. HILTI HAS-V-36 ANCHOR ROD
- (1) 3/4" ASTM A563 HEAVY HEX NUT
- (1) 3/4" ASTM F436 WASHER

NOTE: HILTI ANCHORS MUST BE PURCHASED AS AN ASSEMBLY, DO NOT PURCHASE SEPARATELY. INSTALL WITH HILTI HIT-RE-500 V3 ADHESIVE PER MANUFACTURER'S INSTRUCTIONS.



- (1) 1" X 14" LG. ASTM F1554 HEADED ANCHOR WITH 6" THREAD LENGTH AT THE END
 - (1) 1" ASTM A563 HEAVY HEX NUT
 - (1) 1" ASTM F436 WASHER
 - (16) PLACES FOR CONTROL CABIN.
- NOTE: EMBED HEADED ANCHOR 6" [152] INTO CONCRETE. WILSON SLEEVE IS 8" [203] LG.

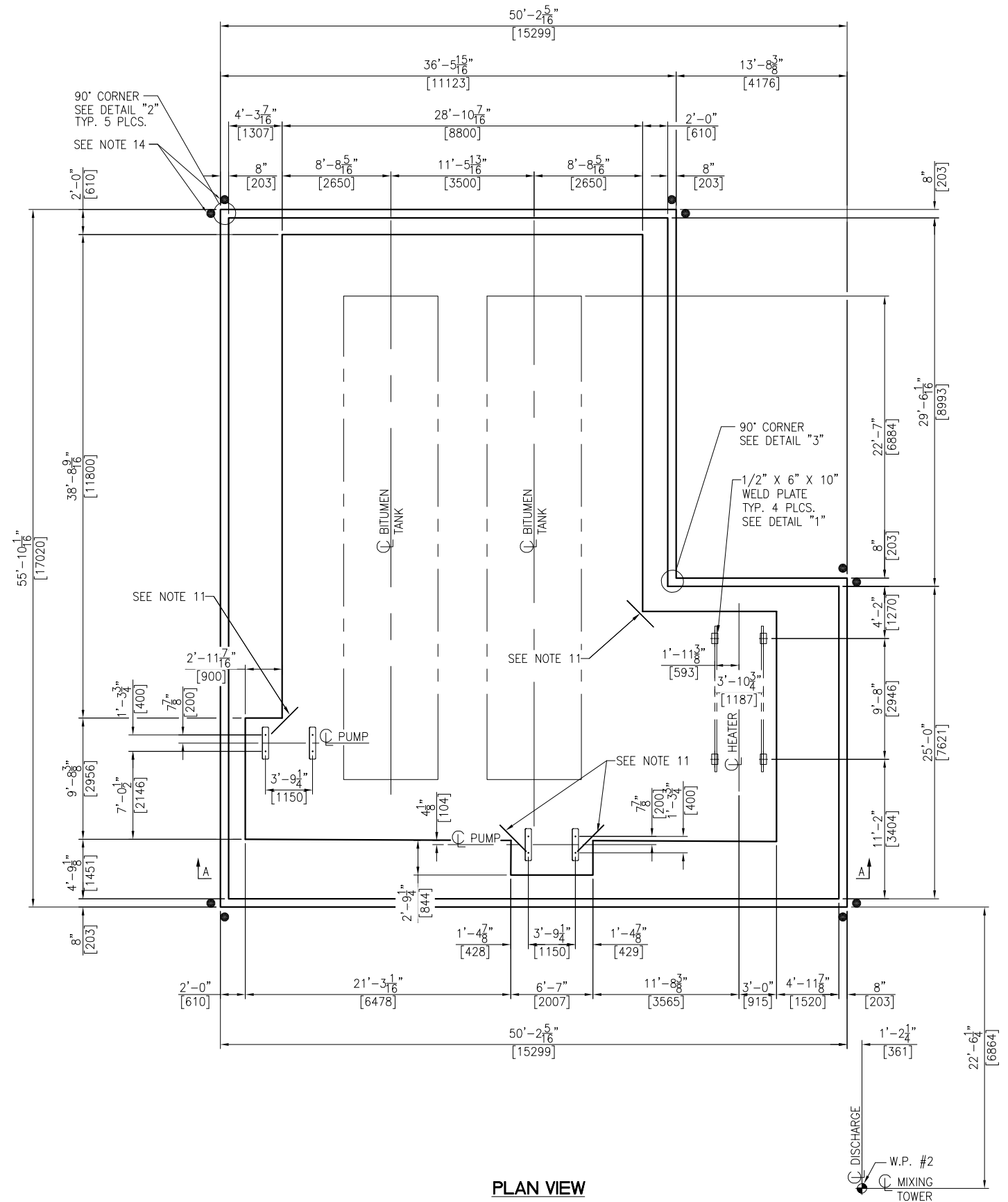
SECTION "A-A"
53'-0" [16154] X 20'-6" [6248] X 18" [457]
TYP. 1 PLC.
SCALED 2X

REBAR CONVERSION CHART		
	IMPERIAL BAR DIA.	METRIC BAR DIA
#4	.500	12.7
#6	.75	19
#8	1"	25.4
#9	1.125"	28.5

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION PLAN, SECTIONS & DETAILS				
MACHINE CONTROL CABIN				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/21/24	
JOB NO 24-090	SHEET	SCALE 3/8"=1'-0"	DWG NO F24-090-12	REV 0



PLAN VIEW

NOTES:

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- CONCRETE: F'C = 4,000 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE
- REINF. STEEL: ASTM-A615, GRADE 60
- EMBEDDED BOLTS, EMBEDDED PLATES, HEX NUTS AND ANCHOR RODS FURNISHED BY CUSTOMER. BOLTS/RODS ARE TO BE A MINIMUM 58,000 PSI TENSILE STRENGTH. NELSON STUDS ARE NOT PERMITTED TO BE USED.
- BENCHMARK ELEVATION 10'-0" [3048] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR SILO FOUNDATION.
- A FLATNESS TOLERANCE OF ±1/8" OVER 10'-0" IS TO BE MAINTAINED FOR ALL CONCRETE SLAB SURFACES
- PROVIDE 12" MIN. OF A WELL DRAINING GRANULAR BASE BELOW CONCRETE FOOTING.
- FOR KEY PLAN SEE DWG. F24-090-01.
- WORK THIS DRAWING WITH DWG. F24-090-14.
- REBAR LENGTHS MAY VARY DUE TO ANGLES AND OR NOTCHED OUT AREAS IN THE CONC. FOOTING. CUT REBAR AS NEEDED.
- PLACE #4 REBAR X 36" [914] LG. AT EACH OFFSET CORNER OF CONC. FOOTING. MAINTAIN A MIN. OF 3" [76] IN. COVER ALL AROUND REBAR
- PLACE 6" PVC DUMBBELL WATER STOP AROUND THE PERIMETER OF THE CONCRETE FOOTINGS, CONTAINMENT AREA WALL.
- PLACE SUFFICIENT EXPANSION JOINT MATERIAL BETWEEN FOOTINGS.
- 6" PIPE BOLLARDS TO BE LOCATED & PROVIDED BY CUSTOMER
- THE OWNER IS RESPONSIBLE FOR GRADING THE SURROUNDING AREA (DETERMINED BY LOCAL TOPOGRAPHY) TO PROVIDE FOR DRAINAGE AWAY FROM EQUIPMENT.
- FOUNDATION DRAWINGS SHOWN HEREIN HAVE BEEN DESIGNED FOR THE HAMILTON, BERMUDA. SITE (W.O. 24-090) AND SHALL BE VOIDED FOR USE AT ANY OTHER SITE.
- DO NOT SCALE. THIS DRAWING MAY BE A REDUCED COPY.

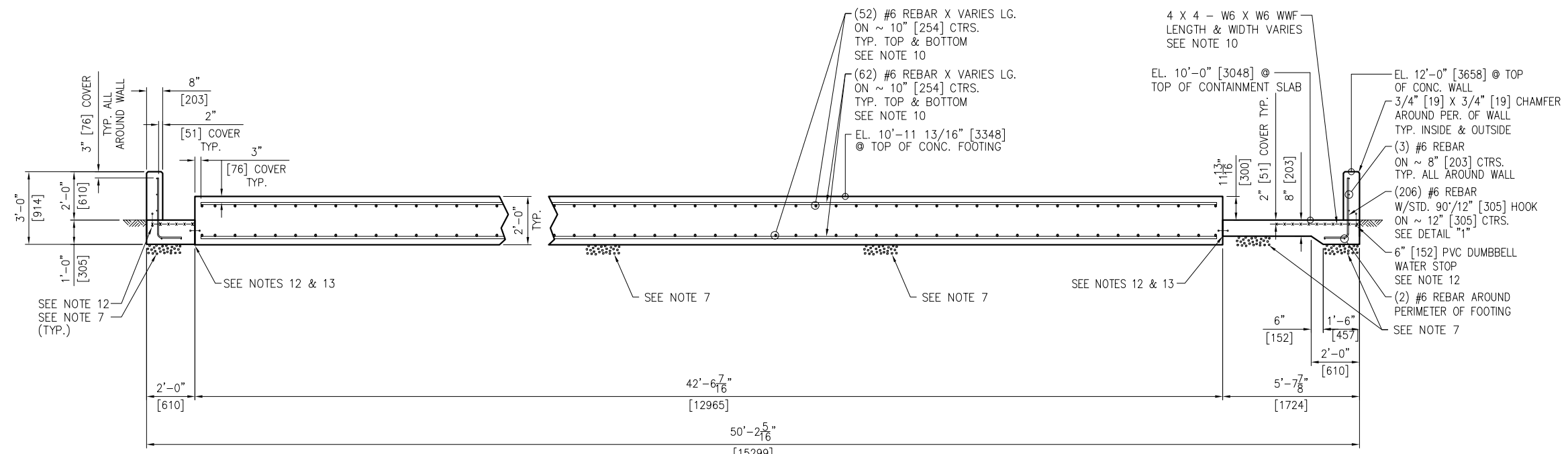
REBAR CONVERSION CHART		
	IMPERIAL BAR DIA.	METRIC BAR DIA
#4	.500	12.7
#6	.75	19
#8	1"	25.4
#9	1.125"	28.5

PRELIMINARY
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NO	REVISION	APPR	BY	DATE
ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION PLAN				
MACHINE BITUMEN TANKS & MISC. EQUIPMENT				
DWN GREG WILLIAMS	CHKD	APPR	DATE 08/13/24	
JOB NO 24-090	SHEET	SCALE 1/4"=1'-0"	DWG NO F24-090-13	REV

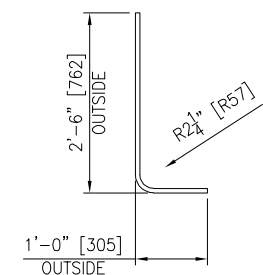
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NOTES:
 1. FOR NOTES SEE DWG. F24-090-13.

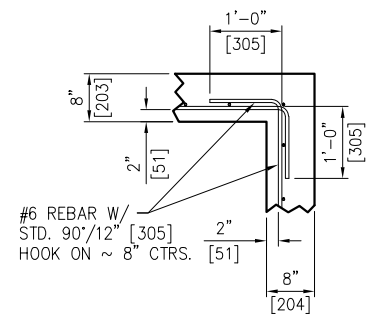


SECTION "A-A"
 TYP. 1 PLC.

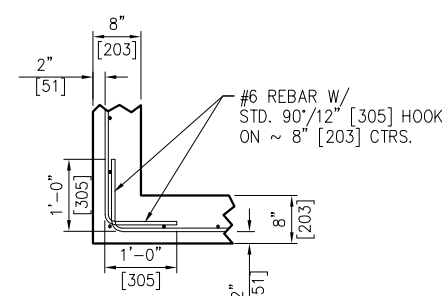
MIN. LAP SPLICE:
 #6 REBAR = 37" [940] TOP
 #6 REBAR = 28" [711] BOTTOM



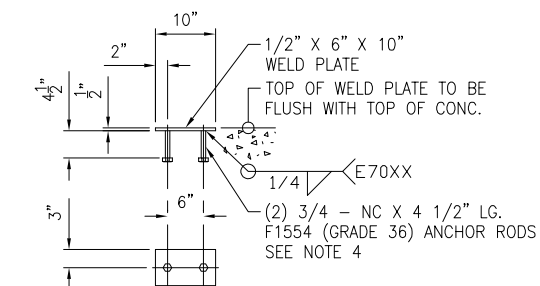
DETAIL "1"
 #6 REBAR W/STD. 90° HOOK
 206 REQ'D. TOTAL
 SCALED 2X



DETAIL "2"
 TYP. WALL DETAIL @ 90° CORNERS
 TYP. 5 PLCS.
 SCALED 2X




DETAIL "3"
 TYP. WALL DETAIL @ 90° CORNERS
 TYP. 1 PLC.
 SCALED 3X

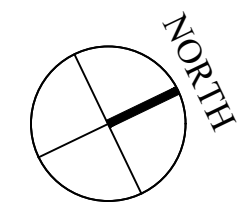


DETAIL "4"
 4 REQ'D
 SCALED 2X

PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION

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NO	REVISION	APPR	BY	DATE
 ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE BITUMEN TANKS & MISC. EQUIPMENT				
DWN GREG WILLIAMS	CHKD	APPR	DATE 08/13/24	
JOB NO F24-090	SHEET 14	SCALE 1/4"=1'-0"	DWG NO F24-090-14	REV 0



GENERAL NOTES

- DO NOT SCALE THE DRAWINGS
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE OWNERS REPRESENTATIVE BEFORE PROCEEDING WITH THE WORKS.

DAP 1 APPLICATION DRAWINGS

ISSUE / REVISION

No.	Date:
1	Issued for DAP 1 Submission 22 Jul 2024
2	Issued for DAP 1 Submission 26 Jul 2024
3	Issued for Tender 13 Aug 2024
4	Issued for Tender 19 Aug 2024

SCALE: 1/4" = 1'-0"

SURVEY

Prepared By: GOVERNMENT LAND SURVEY DEPT
Date:

DESIGN

Prepared By: KGW Date: 15/05/2024
Checked By: MM Date: 15/05/2024

DRAWING

Prepared By: KGW Date: 15/05/2024
Checked By: MM Date: 15/05/2024

Approved By: TC

Project Number: 32/23/200 Brick Verde Ref Number: 240219AP

Project Title:

PROPOSED ASPHALT PLANT, AGGREGATE SCREENING PLANT, NEW WORKSHOP, LAB AND SITE SERVICES

PUBLIC WORKS QUARRY & DEPOT
QUARRY ROAD
HAMILTON PARISH
BERMUDA

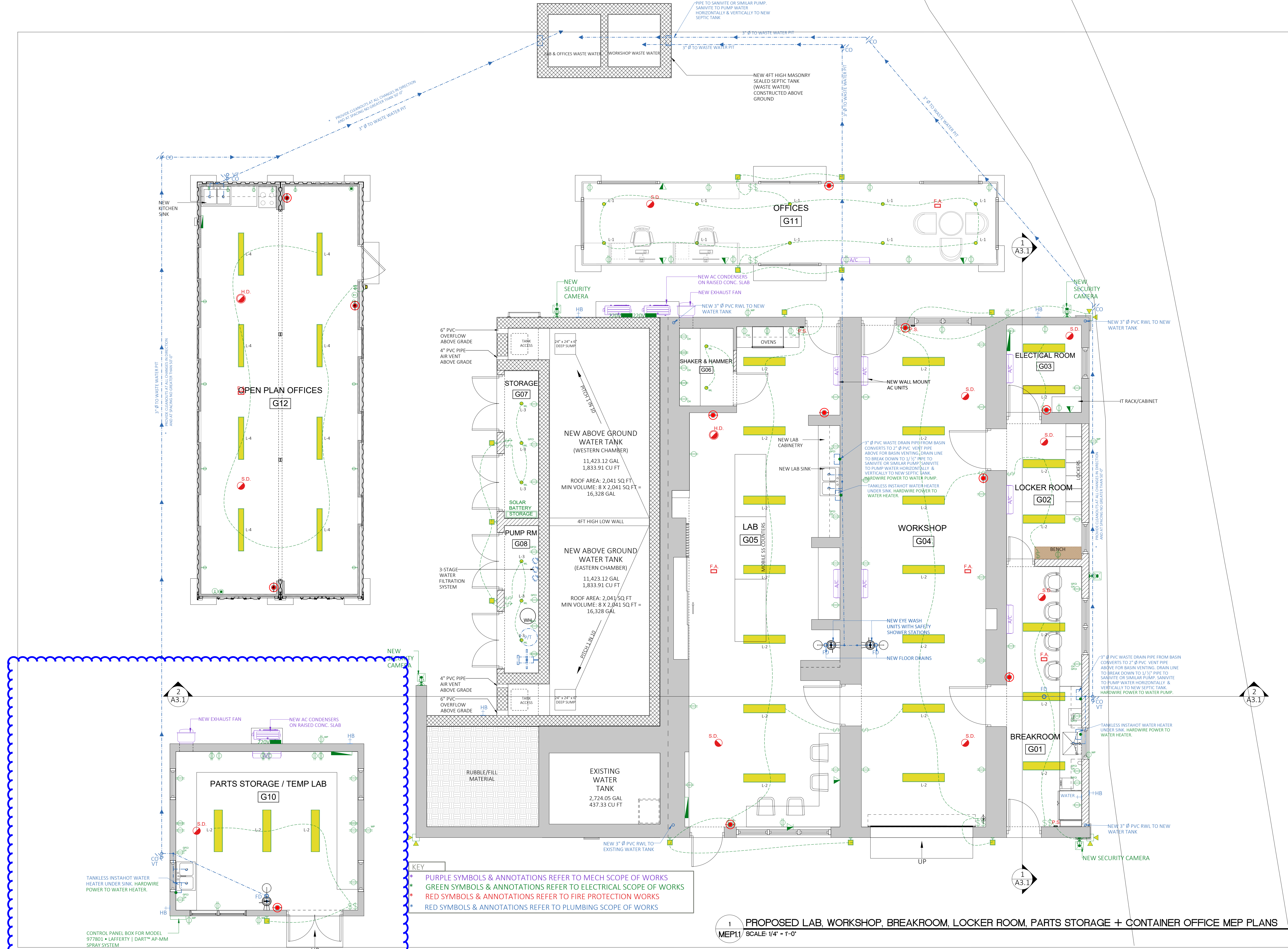
Sheet Title:

PROPOSED LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE & CONTAINER OFFICE MECHANICAL, ELECTRICAL, PLUMBING

Revisions:

Sheet Number:

MEP1.1

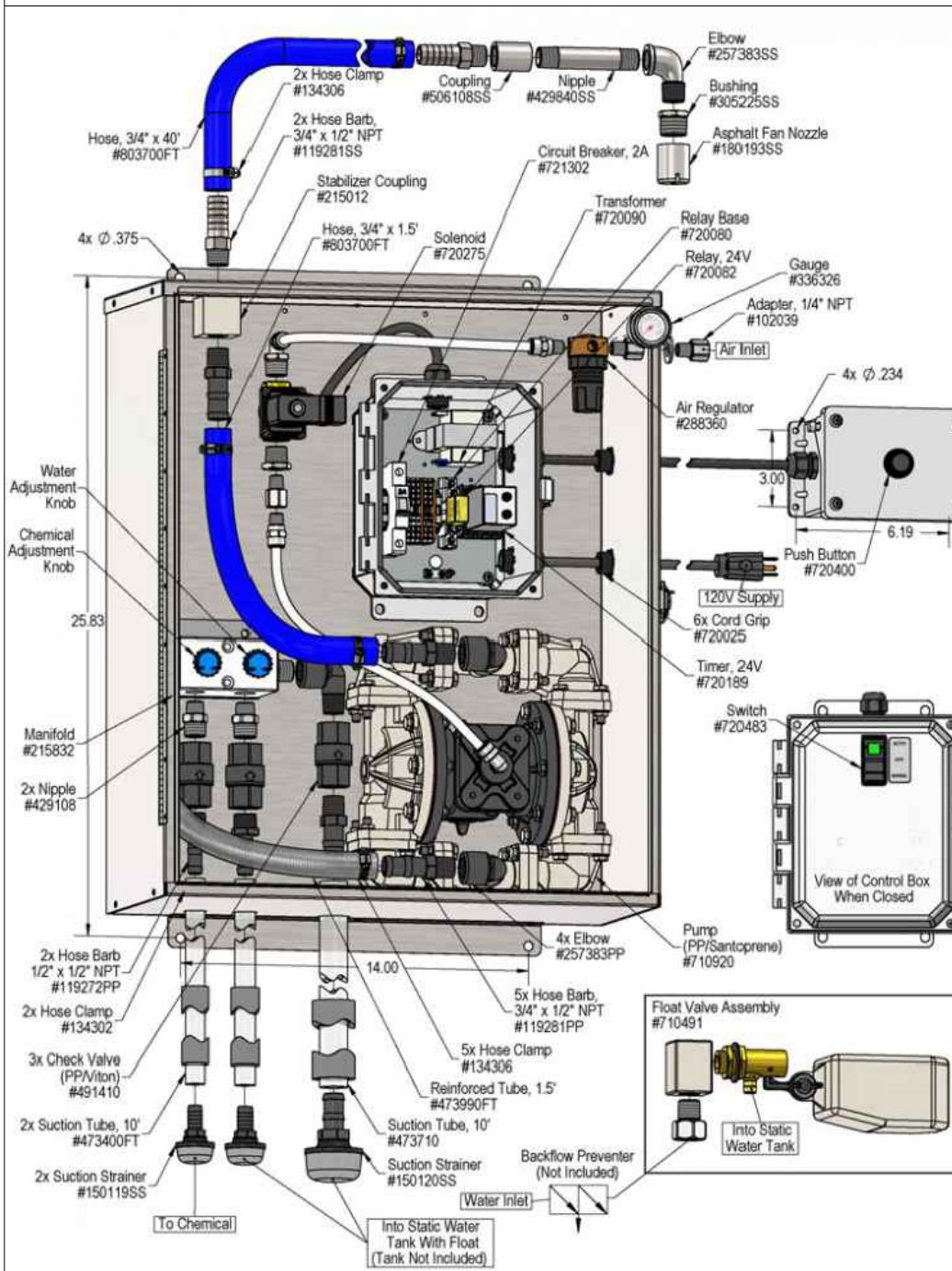
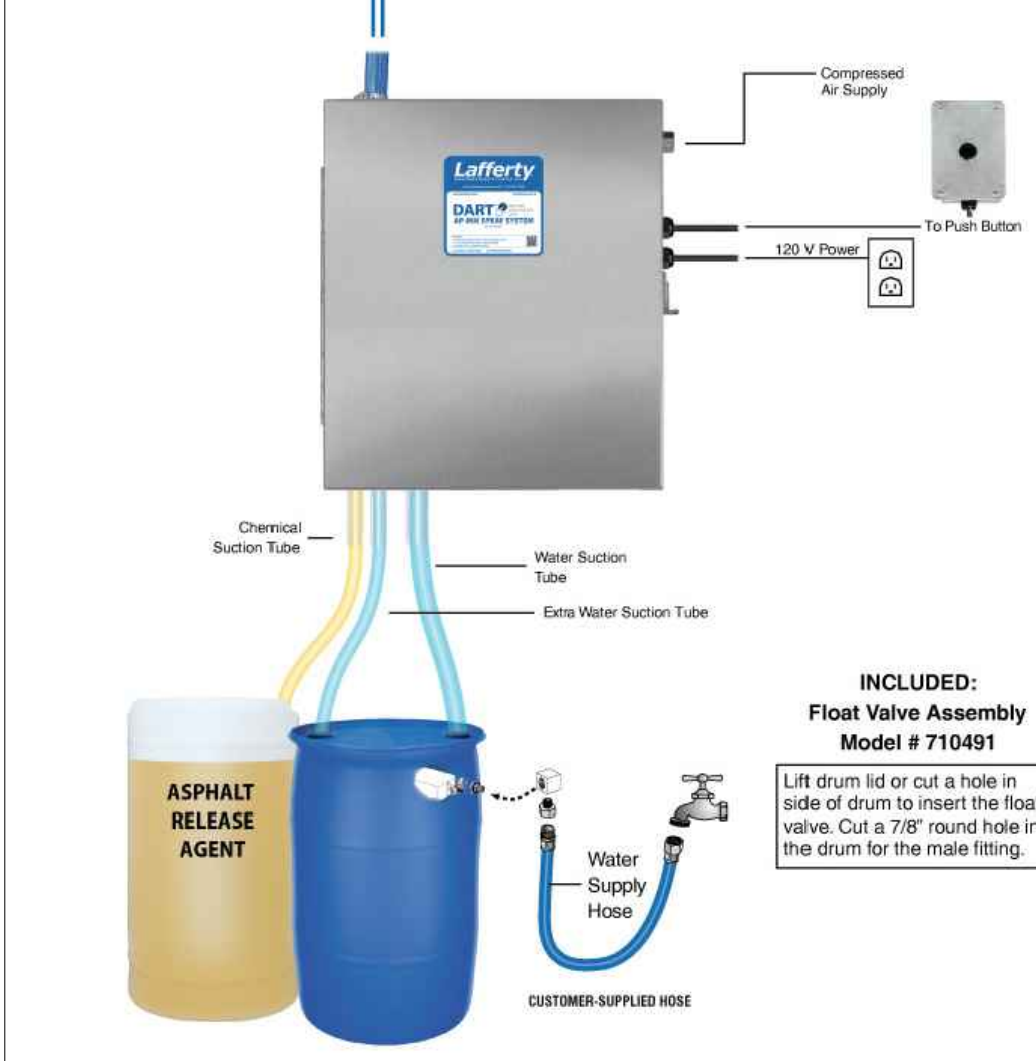
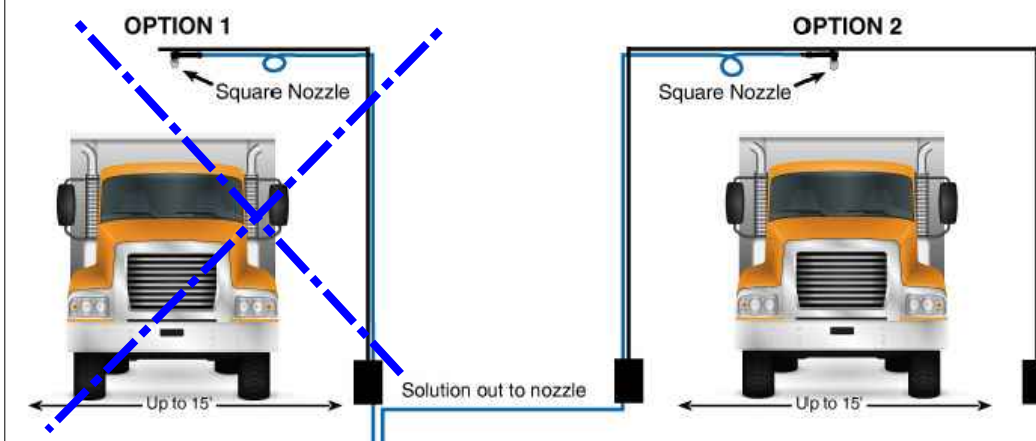


KEY
 PURPLE SYMBOLS & ANNOTATIONS REFER TO MECH SCOPE OF WORKS
 GREEN SYMBOLS & ANNOTATIONS REFER TO ELECTRICAL SCOPE OF WORKS
 RED SYMBOLS & ANNOTATIONS REFER TO FIRE PROTECTION WORKS
 RED SYMBOLS & ANNOTATIONS REFER TO PLUMBING SCOPE OF WORKS

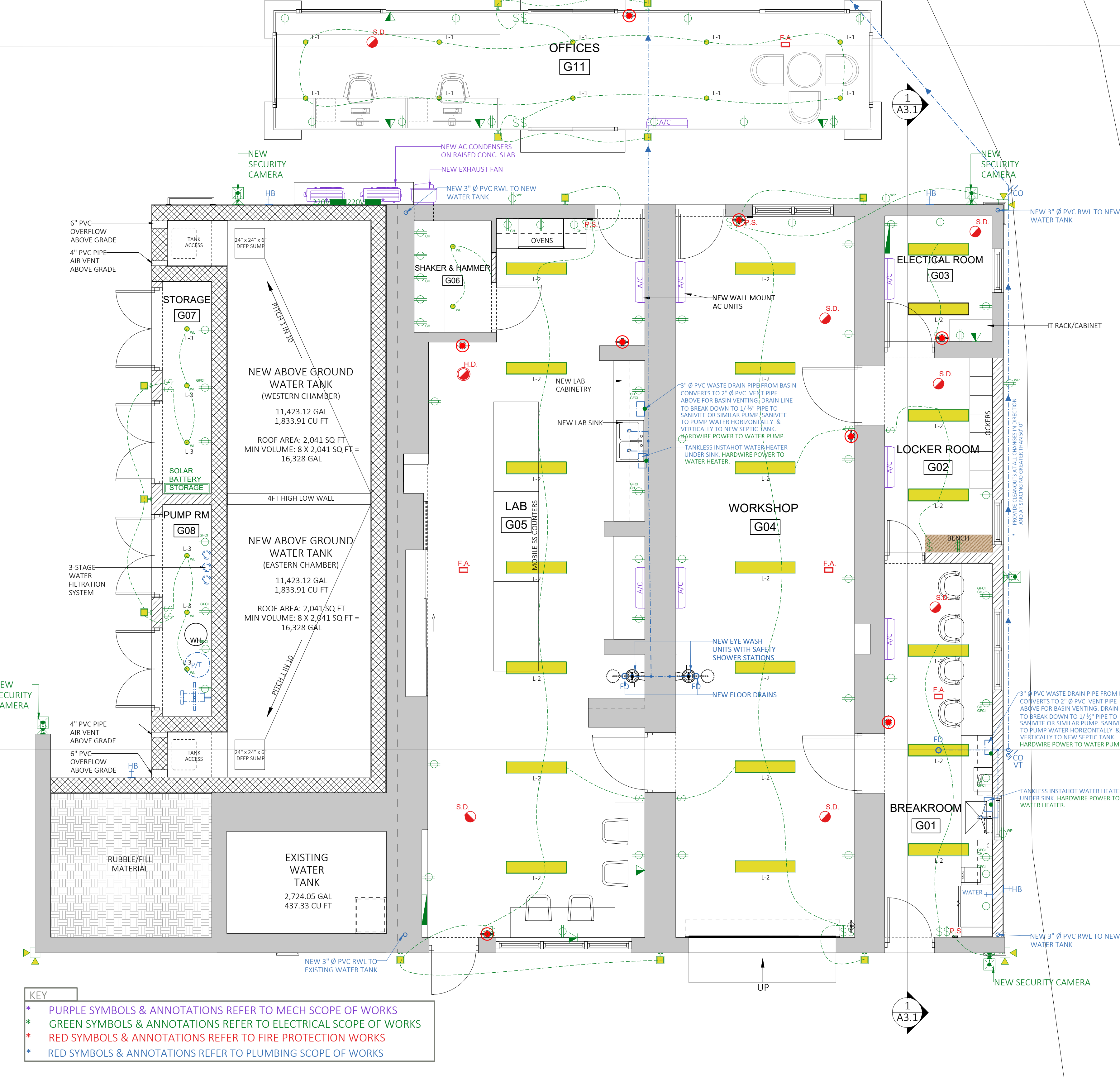
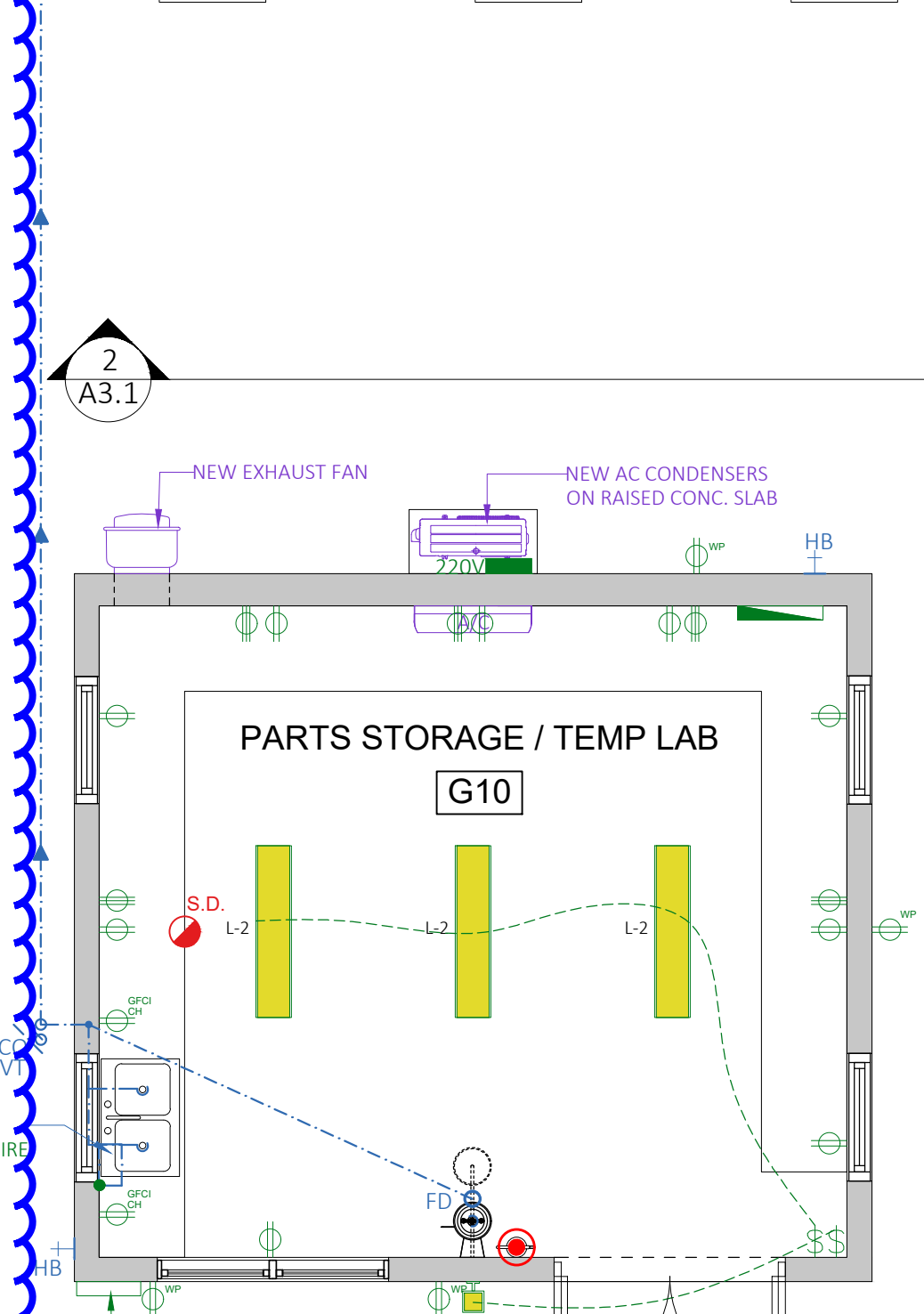
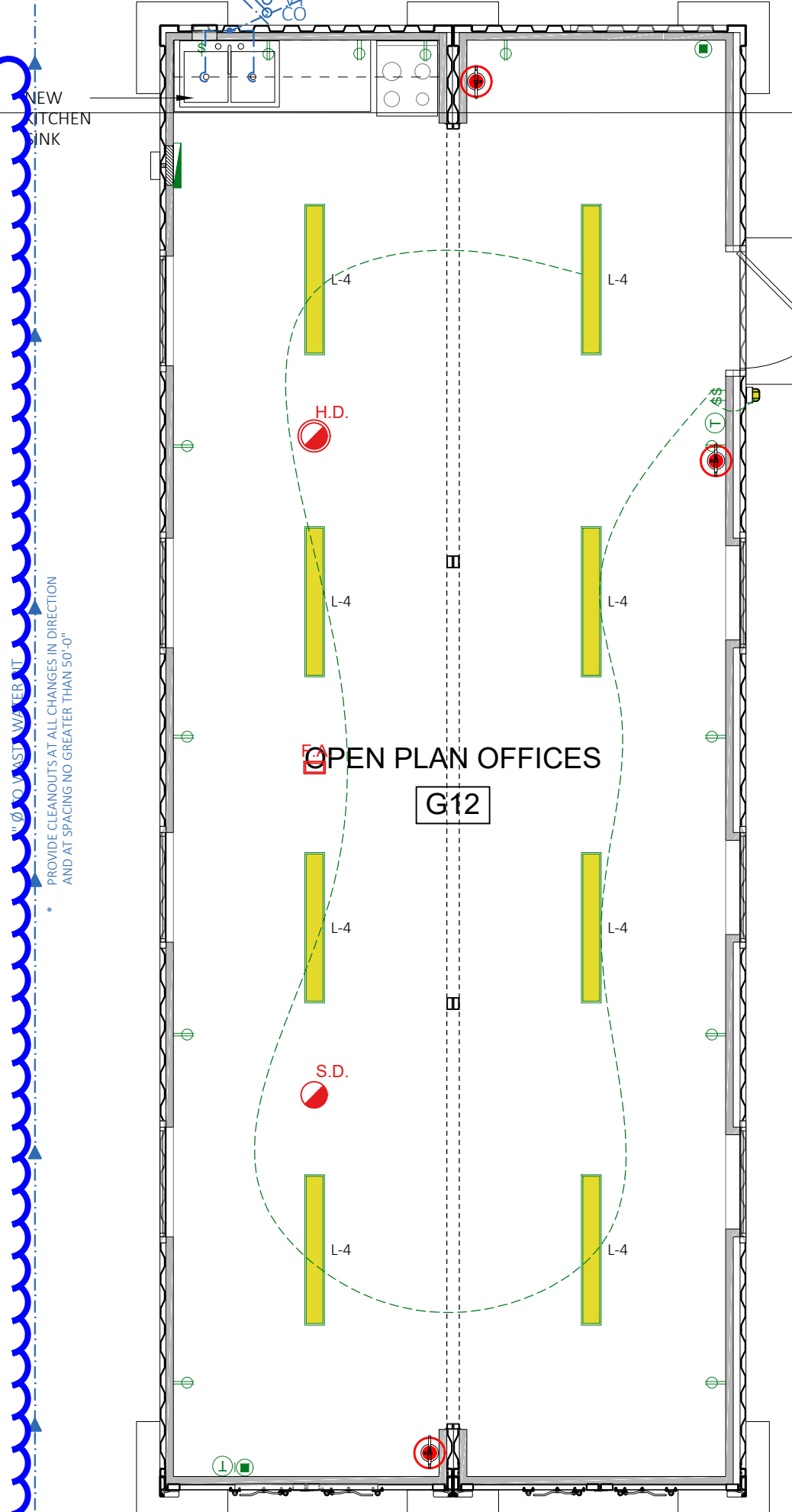
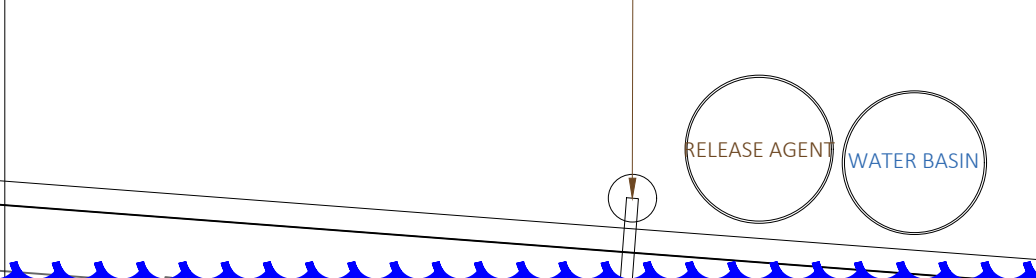
1 PROPOSED LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE + CONTAINER OFFICE MEP PLANS
 MEPI.1 SCALE: 1/4" = 1'-0"

Lafferty Equipment Manufacturing, LLC
Installation & Operation Instructions
Model # 977801 - DART™ AP-MM Spray System

REQUIREMENTS	OPTIONS
Chemical Concentration	Water Assembly # 720981
Static Tank of Water	Drum & Tote Block Lengths & Seal Materials
Compressed Air	Up to 150 CFM
Minimum Air Supply Line	3/4"
Hose	3/4" ID x 40'
Nozzle	#1619335
Electric	120V



Installation of MEP Equipment Only



MINISTRY OF PUBLIC WORKS

DEPARTMENT OF WORKS AND ENGINEERING

Government Administration Building,
3rd Floor | 56 Church Street | Hamilton, Bermuda HM12
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Brick Verde
Architectural Services

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NORTH

- GENERAL NOTES**
- DO NOT SCALE THE DRAWINGS
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE OWNERS REPRESENTATIVE BEFORE PROCEEDING WITH THE WORKS.

DAP 1 APPLICATION DRAWINGS

ISSUE / REVISION	No.	Date:
1	Issued for Tender	19 Aug 2024

SCALE: 1/4" = 1'-0"

SURVEY

Prepared By:	GOVERNMENT LAND SURVEY DEPT	Date:	
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DESIGN

Prepared By:	KGW	Date:	15/05/2024
Checked By:	MM	Date:	15/05/2024

DRAWING

Prepared By:	KGW	Date:	15/05/2024
Checked By:	MM	Date:	15/05/2024

Approved By: TC

Project Number:	32/23/200	Brick Verde Ref Number:	240219AP
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Project Title:
PROPOSED ASPHALT PLANT, AGGREGATE SCREENING PLANT, NEW WORKSHOP, LAB AND SITE SERVICES

PUBLIC WORKS QUARRY & DEPOT
QUARRY ROAD
HAMILTON PARISH
BERMUDA

Sheet Title:
PROPOSED RELEASE AGENT SPRAY SYSTEM & LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE & CONTAINER OFFICE MECHANICAL, ELECTRICAL, PLUMBING

Revisions: | Sheet Number: **MEP1.2**

1 PROPOSED LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE + CONTAINER OFFICE MEP PLANS
MEP1.2 SCALE: 1/4" = 1'-0"