



Ministry of Public Works
Department of Works and Engineering

Request for Proposals
For
Asphalt Plant Site Works

ADDENDUM 1

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

Issued: **Friday July 26, 2024**

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

ADDENDUM 1

1. The following RFP Timetable has been revised per the request of the potential bidders.

Key Dates

Issue Date of RFP	Friday July 26, 2024
Pre-Bid / Site Meeting	Tuesday August 13, 2024 11:00 AM
Deadline for Questions	Friday August 30, 2024
Deadline for Issuing Addenda	Wednesday September 4, 2024
Submission Deadline	Friday September 6, 2024 03:00:00 PM
Rectification Period	5 business days
Anticipated Ranking of Proponents	Friday September 20, 2024
Contract Negotiation Period	30 calendar days
Anticipated Execution of Agreement	Friday October 11, 2024

All times listed are Bermuda local time. The RFP timetable is tentative only and may be changed by the Government at any time. For greater clarity, business days means all days that the Government is open for business.

2. Scope of Work - The Owner shall not supply any materials shown on the drawings, i.e. reinforcing steel, anchor bolts, embeds, etc. required by the Proponent to complete the Works as detailed on the drawings.
3. Please refer to the attached 26 drawings for changes and extra details of the Works.
4. Please note that the design continues to be defined and another addenda should be expected.

1.0 GENERAL

- 1.1 THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS AND ARE TO BE READ IN CONJUNCTION WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- 1.2 DO NOT SCALE THE DRAWINGS. DIMENSIONS ARE TO BE USED AS A GUIDE ONLY.
- 1.3 ALL DETAILS AND ARRANGEMENTS OF EXISTING CONDITIONS, DIMENSIONS, ETC. TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
- 1.4 CONTRACTOR TO MAKE GOOD ANY DAMAGES CAUSED ON SITE, REPAIRING TO MATCH EXISTING OR AS APPROVED BY THE OWNER.
- 1.5 THE CONTRACTOR SHALL SUPPLY ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO COMPLETE THE WORK, UNLESS OTHERWISE INDICATED.
- 1.6 THE CONTRACTOR SHALL PROVIDE COMPETENT SUPERVISORY STAFF AT ALL TIMES DURING THE WORK. TRADESMEN ARE TO BE SKILLED AND QUALIFIED FOR THE TASKS ASSIGNED. CONTRACTOR SHALL SUPPLY ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO COMPLETE THE WORK, UNLESS OTHERWISE INDICATED.
- 1.7 THE CONTRACTOR SHALL PROVIDE ALL SAFETY EQUIPMENT AND GEAR TO CONFORM TO THE NATIONAL HEALTH AND SAFETY REGULATIONS APPLICABLE TO BERMUDA.
- 1.8 THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
- 1.9 ALL CONSTRUCTION OPERATIONS ARE TO COMPLY WITH THE MINIMUM REQUIREMENTS OF THE BERMUDA RESIDENTIAL BUILDING CODE 2014.

2.0 CONCRETE

- 2.1 STRUCTURAL CONCRETE STRENGTH TO BE A MINIMUM OF 30 MPa (4350 PSI).
- 2.2 CONCRETE BLINDING/LEAN MIX BUILD UP STRENGTH MUST BE A MINIMUM OF 14MPa (2000 PSI).
- 2.3 REINFORCING CHAIRS TO BE PLASTIC, OR CONCRETE.
- 2.4 NO ADDITIVES TO BE USED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. NO WATER SHALL BE ADDED TO THE MIX ON SITE WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- 2.5 THE CONTRACTOR SHALL GIVE A MINIMUM OF 48 HOURS NOTICE TO THE ENGINEER PRIOR TO POURING ANY CONCRETE.
- 2.6 CONCRETE COVER TO BE 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH (E.G. RETAINING WALLS AND FOUNDATIONS), 2" FOR CONCRETE EXPOSED TO WEATHER AND 1.5" FOR CONCRETE NOT EXPOSED TO WEATHER OR EARTH U.N.O
- 2.7 CONCRETE IS TO CURE FOR 7 DAYS MINIMUM PRIOR TO LOADING U.N.O.
- 2.8 EXPERIENCED PERSONNEL SHALL MECHANICALLY VIBRATE ALL STRUCTURAL CONCRETE IN THE APPROVED MANNER. THE CONTRACTOR SHALL HAVE AT LEAST TWO FULLY OPERATIONAL POKER VIBRATORS ON SITE DURING CONCRETE PLACEMENT.
- 2.9 ALL FORMWORK, SHORING AND RESHORING SHALL BE DESIGNED BY THE CONTRACTOR'S REGISTERED ENGINEER.
- 2.10 FOUNDATIONS, WALLS, SLABS, BEAMS AND GIRDERS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE UNLESS SHOWN OTHERWISE.
- 2.11 CONCRETE SLUMP TO BE AS FOLLOWS :
BEAMS/FOOTINGS/COLUMNS AND SLABS = 5" +/- 1"
MASONRY BLOCK FILL = 7" +/- 1"
- 2.12 CONCRETE BEAMS TO HAVE A MINIMUM BEARING OF 8" ON EACH SIDE ONTO SOLID CONCRETE OR FILLED MASONRY BLOCK (WALL STIFFENER/WS) WITH A MINIMUM WIDTH OF THE RESPECTIVE BEAM U.N.O.

3.0 REINFORCING STEEL

- 3.1 REINFORCING STEEL SHALL HAVE A MINIMUM STRENGTH OF 400 MPa (OR APPROVED EQUAL).
- 3.2 REINFORCING STEEL TO BE GALVANISED IN ACCORDANCE CLASS II STANDARD ASTM A767.
- 3.3 REBAR AT ENDS OF CONCRETE LINTELS, WALL STIFFENERS, COLUMNS, STAIRS, PAD FOOTINGS, BEAMS AND SLABS ARE TO HAVE STANDARD 90° BENDS WITH THE MINIMUM ANCHORAGE/LAP LENGTHS U.N.O. ANY REBAR WHICH IS CUT AND BENT ON SITE SHALL HAVE TWO APPLICATIONS OF A ZINC RICH PAINT APPLIED TO THE ENDS AND DAMAGED AREAS TO THE APPROVAL OF THE ENGINEER.
- 3.4 MINIMUM LAP LENGTHS UNO:
T25 - 1500 (60")
T20 - 1000 (40")
T16 - 800 (32")
T12 - 600 (24")
T10 - 500 (20")
- 3.5 MINIMUM ANCHORAGE LENGTHS UNO:
T20 - 850 (34")
T16 - 700 (28")
T12 - 550 (22")
T10 - 300 (12")

4.0 MASONRY

- 4.1 WALLS TO BE CONSTRUCTED OF RUNNING BOND MASONRY.
- 4.2 FOR BED AND HEAD JOINTS : UNLESS OTHERWISE REQUIRED OR INDICATED ON THE PROJECT DRAWINGS, HEAD AND BED JOINTS SHALL BE 3/8"(10mm) THICK, EXCEPT THAT THE THICKNESS OF THE BED JOINT OF THE STARTING COURSE PLACED OVER FOUNDATIONS SHALL NOT BE LESS THAN 1/4" (7mm) AND NOT MORE THAN 3/4" (19mm)
- 4.3 IN EACH WYTHE OF MASONRY LAID IN RUNNING BOND, HEAD JOINTS IN SUCCESSIVE COURSES SHALL BE OFFSET BY NOT LESS THAN ONE-FOURTH THE UNIT LENGTH.
- 4.4 FOR MASONRY UNIT PLACEMENT, THE MORTAR SHALL BE SUFFICIENTLY PLASTIC AND UNITS SHALL BE PLACED WITH SUFFICIENT PRESSURE TO EXTRUDE MORTAR FROM THE JOINT AND PRODUCE A TIGHT JOINT. DEEP FURROWING OF BED JOINTS THAT PRODUCES VOIDS IS NOT PERMITTED. ANY UNITS DISTURBED TO THE EXTENT THAT THE INITIAL BOND IS BROKEN AFTER INITIAL PLACEMENT SHALL BE REMOVED AND RE-LAID IN FRESH MORTAR. SURFACES TO BE IN CONTACT WITH MORTAR SHALL BE CLEAN AND FREE OF DELETERIOUS MATERIALS.
- 4.5 MASONRY UNITS SHALL CONFORM TO THE LATEST VERSION OF ASTM C90 (THE MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 3 UNITS SHALL BE 2000 PSI BASED ON THE NET AREA OF THE UNITS.
- 4.6 MORTAR SHALL CONFORM TO THE LATEST VERSION OF ASTM C-270 AND SHALL BE OF GRADE S OR GREATER.
- 4.7 ALL CELLS TO BE FILLED ARE TO BE KEPT CLEAR OF OBSTRUCTIONS. ALL CELLS CONTAINING VERTICAL REINFORCING SHALL BE FILLED. CELLS BELOW BEARING BEAMS/LINTELS SHALL BE SOLID FILLED AND SHALL BE REINFORCED WITH MIN 1-T12 BAR. REBAR TO ANCHOR A A MINIMUM OF 2' INTO THE FOOTING. CELLS ARE TO BE SOLID FILLED TO FULL HEIGHT U.N.O.
- 4.8 FILLED BLOCK WORK MUST BE POURED IN MAXIMUM OF 4' HIGH LIFTS. CONCRETE MUST BE STOPPED 2" FROM THE TOP OF THE BLOCK TO ALLOW THE NEXT LIFT TO KEY TOGETHER.
- 4.9 WHERE NEW WALLS BUTT UP AGAINST EXISTING WALLS, A 4" KEY INTO THE EXISTING WALL IS REQUIRED EVERY 2ND COURSE OF BLOCK.
- 4.10 CONCRETE BOND BEAMS SHALL BE PROVIDED ON THE TOP OF ALL NEW WALLS W/ MINIMUM OF 8" DEEP AND THE SAME WIDTH AS WALL W/ 2 T12 MID HEIGHT CONTINUOUS THROUGHOUT THE BOND BEAM.
- 4.11 ALL CORNERS TO BE FILLED WITH MIN 2000 PSI CONCRETE, 3 CELLS IN ALL DIRECTIONS.

5.0 FOUNDATIONS

- 5.1 ALL FOOTINGS AND FOUNDATIONS TO BEAR ON UNDISTURBED SOUND ROCK. BEARING MATERIAL IS TO REMAIN UNDISTURBED AND BE REVIEWED BY THE ENGINEER PRIOR TO PLACING THE CONCRETE FOR FOUNDATIONS.
- 5.2 ALL SHORING, SHEETING AND DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 5.3 THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING AND SURROUNDING INFRASTRUCTURE.
- 5.4 UNDERSIDE OF SCREENING PLANT FOUNDATIONS TO BE RAISED WITH A LAYER OF CONCRETE BLINDING/LEAN MIX AS REQUIRED TO ACHIEVE THE SPECIFIED TOP OF CONCRETE FOOTING ELEVATION.
- 5.5 BACKFILL MATERIAL SHALL BE FREE FROM ORGANIC MATTER, CONSTRUCTION DEBRIS AND LARGE ROCKS. BACKFILL SHALL BE WELL GRADED AND PLACED IN LAYERS NOT EXCEEDING 6". THE BACKFILL SHALL BE WATERED AND COMPACTED TO A MINIMUM OF 95% COMPACTION.

6.0 INSPECTION AND TESTING

- 6.1 CONTRACTOR TO PROVIDE 48 HOURS NOTICE TO THE ENGINEER OF RECORD FOR THE INSPECTION OF ALL REINFORCEMENT, INCLUDING MASONRY REINFORCEMENT PRIOR TO POURING CONCRETE. NO WORK SHALL BE COVERED UP UNTIL SUCH TIME AS THE OWNER'S REPRESENTATIVE HAS APPROVED THE WORK.

7.0 DEMOLITION/EXCAVATIONS

- 7.1 WHERE NECESSARY, THE CONTRACTOR SHALL DESIGN AND PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF THE STRUCTURE OR ELEMENT TO BE DEMOLISHED, AND ADJACENT FACILITIES OR WORK TO REMAIN.
- 7.2 IF UNEXPECTED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS ARE ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT DETAILS OF SUCH TO THE ENGINEER.
- 7.3 THE CONTRACTOR SHALL LOCATE AND IDENTIFY EXISTING UNDERGROUND UTILITIES WITHIN THE SITE EXTENTS. IF UTILITIES ARE TO REMAIN, THE CONTRACTOR SHALL ENSURE THAT THE UTILITIES ARE SUPPORTED AND PROTECTED THROUGHOUT THE WORKS.

8.0 CONNECTIONS

- 8.1 ALL NAILS, BOLTS, SCREWS, CLIPS, ANCHORS AND HURRICANE TIES SHALL BE GALVANIZED OR STAINLESS STEEL.
- 8.2 IF GALVANIZED : ALL NUTS, BOLTS, WASHERS, NAILS, SCREWS, AND OTHER FASTENERS SHOULD BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153. ALL JOIST HANGERS, HURRICANE CLIPS AND OTHER CONNECTIONS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A525 TO A MINIMUM OF G60.
- 8.3 ANCHOR BOLTS SHALL BE SET IN THE CORRECT LOCATIONS USING TEMPLATES AND NOT FORCE FIT AFTER CONCRETING.
- 8.4 NAILS AND NAILED CONNECTIONS SHALL COMPLY WITH APPENDIX B : NAIL FASTENING SCHEDULE IN THE BERMUDA RESIDENTIAL BUILDING CODE 2014.
- 8.5 BOLT HOLES SHALL BE NO LARGER THAN 1/16" GREATER THAN THE BOLT SHANK DIAMETER. ALL BOLTED JOINTS SHALL HAVE WASHERS FITTED UNDER THE HEAD OF THE BOLT AND UNDER THE NUT. THE SIZE OF WASHERS FOR 1/2" BOLTS AND UNDER SHALL BE A MINIMUM OF 2" DIAMETER X 1/8" THICK AND FOR 5/8" BOLTS A MINIMUM OF 2 1/2" DIAMETER AND 3/16" THICK.
- 8.6 BOLT STRENGTH TO BE A MINIMUM OF CLASS 4.6 OR EQUIVALENT.
- 8.7 ANCHOR ROD/BOLT/CONNECTION INSTALLATIONS MUST FOLLOW THE INSTRUCTIONS FOR USE (IFU) DOCUMENTATION PROVIDED WITH THE PRODUCT.

ENGINEERING CONSULTANTS:



REVISIONS			
No.	DATE	BY	REVISION
00	2024-08-09	RGW	ISSUED FOR PRELIMINARY PRICING

PROJECT DETAILS
PUBLIC WORKS QUARRY & DEPOT
QUARRY ROAD
HAMILTON PARISH
BERMUDA

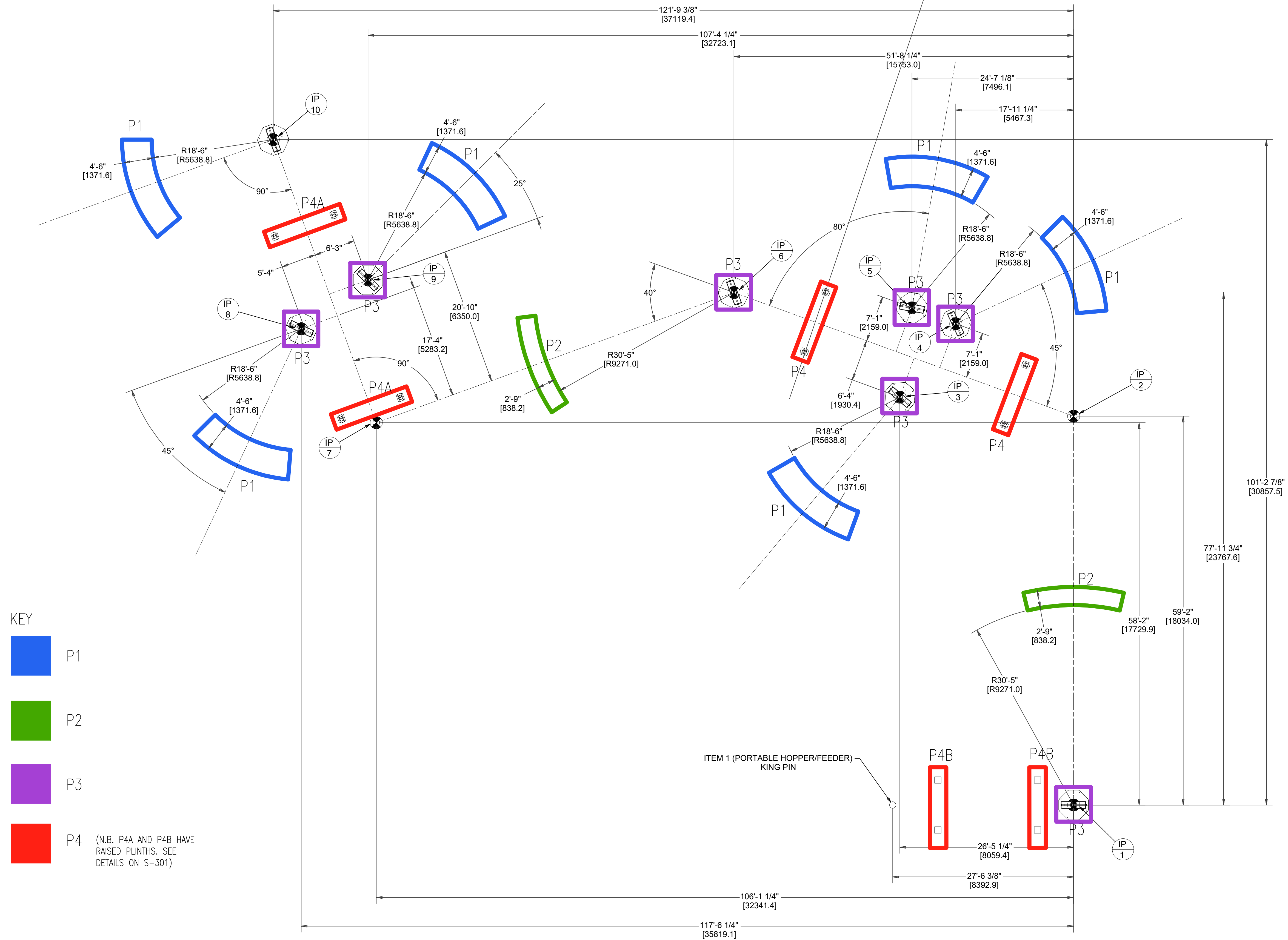
TITLE
STRUCTURAL NOTES

DESIGN BY: RGW
CHECKED BY: RB

JOB No:
DATE: 09-AUG-2024

REVISION: 0 SHEET No: S-001

PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION



- KEY
- P1
 - P2
 - P3
 - P4 (N.B. P4A AND P4B HAVE RAISED PLINTHS. SEE DETAILS ON S-301)

SCREENING PLANT - GENERAL ARRANGEMENT FOUNDATION PLAN
 NTS SCALE

REVISIONS			
No.	DATE	BY	REVISION
00	2023-08-09	RGW	ISSUED FOR PRELIMINARY PRICING
01	2024-08-12	RGW	ISSUED FOR PRELIMINARY PRICING

PROJECT DETAILS
 PUBLIC WORKS QUARRY & DEPOT
 QUARRY ROAD
 HAMILTON PARISH
 BERMUDA

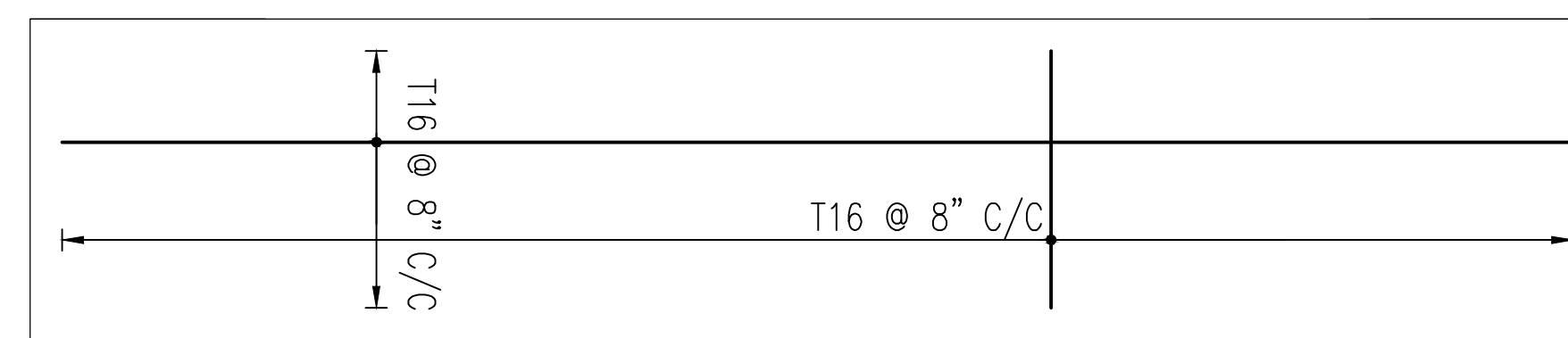
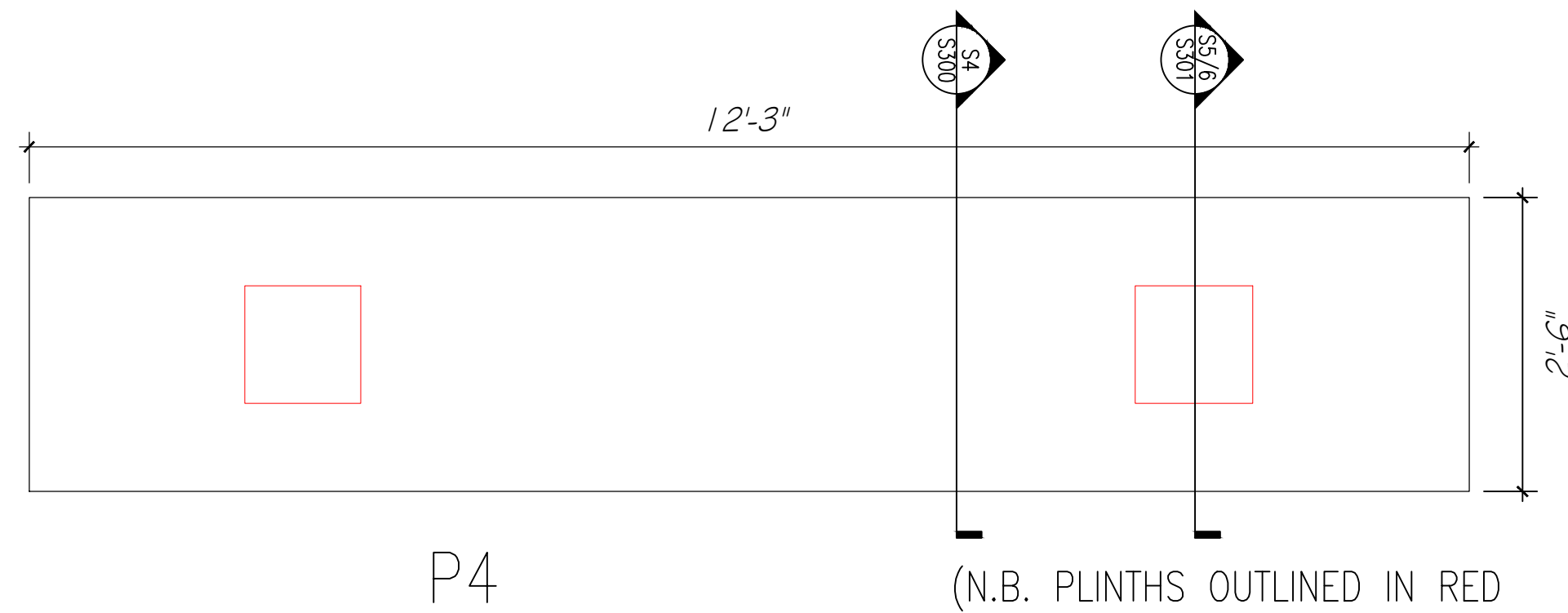
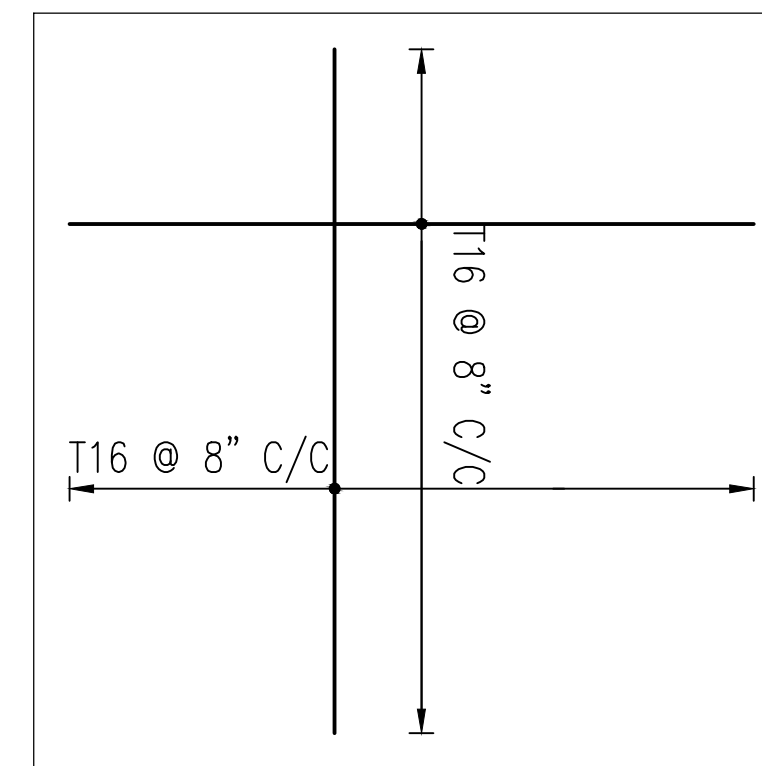
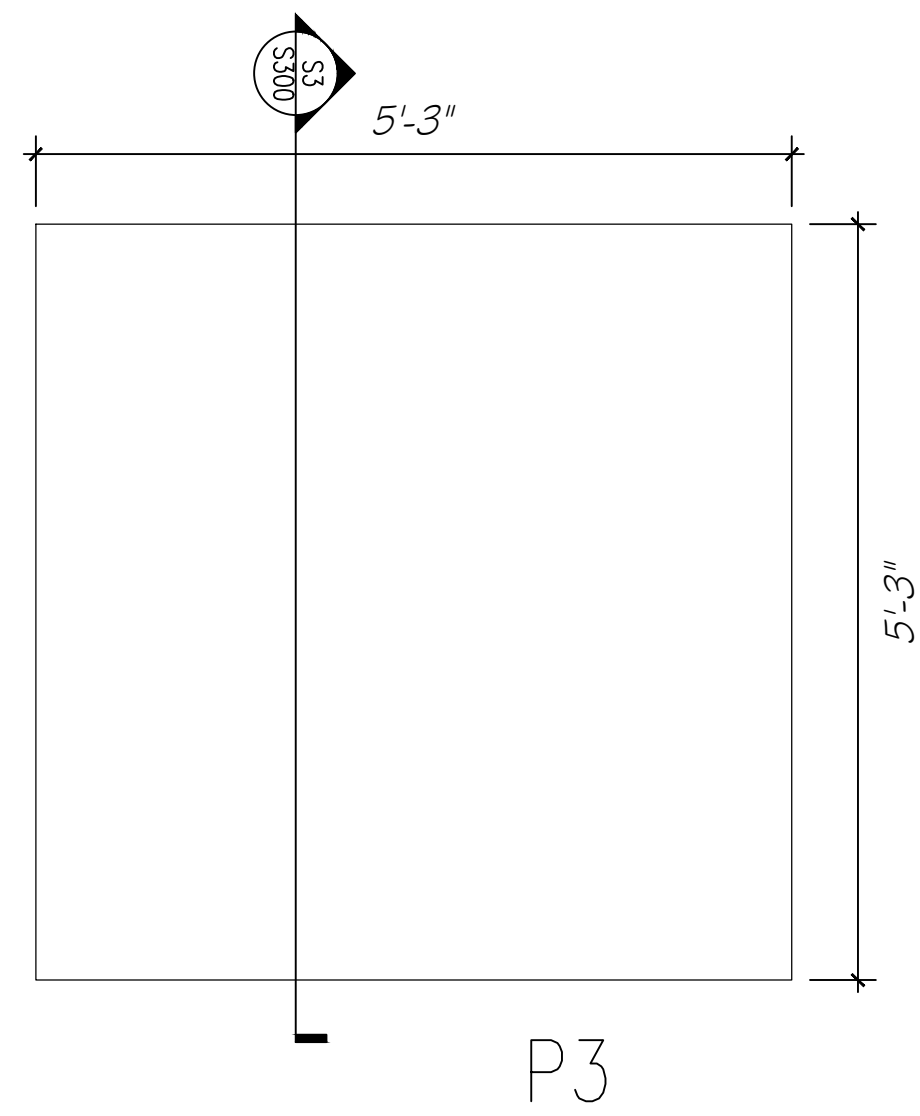
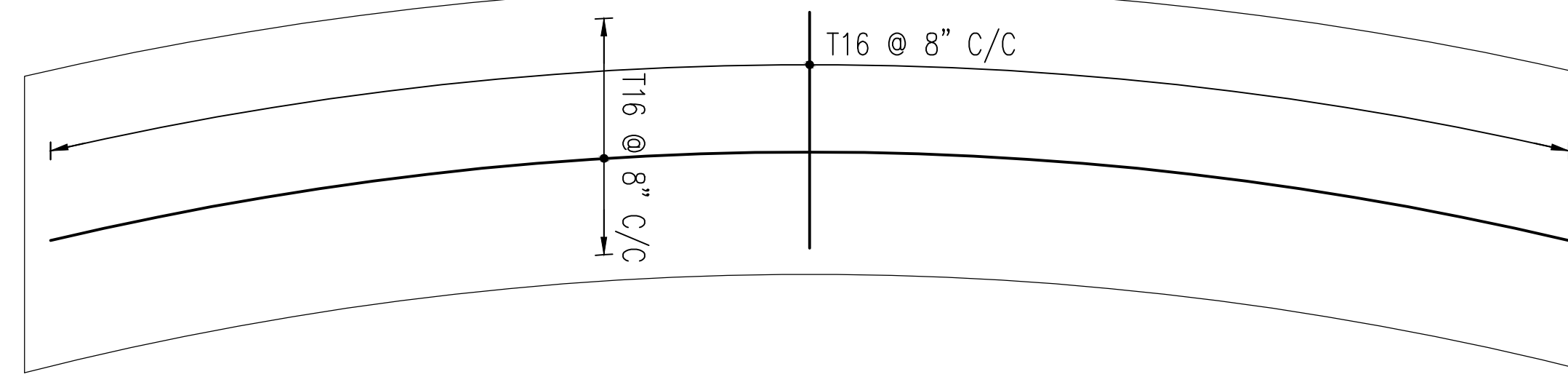
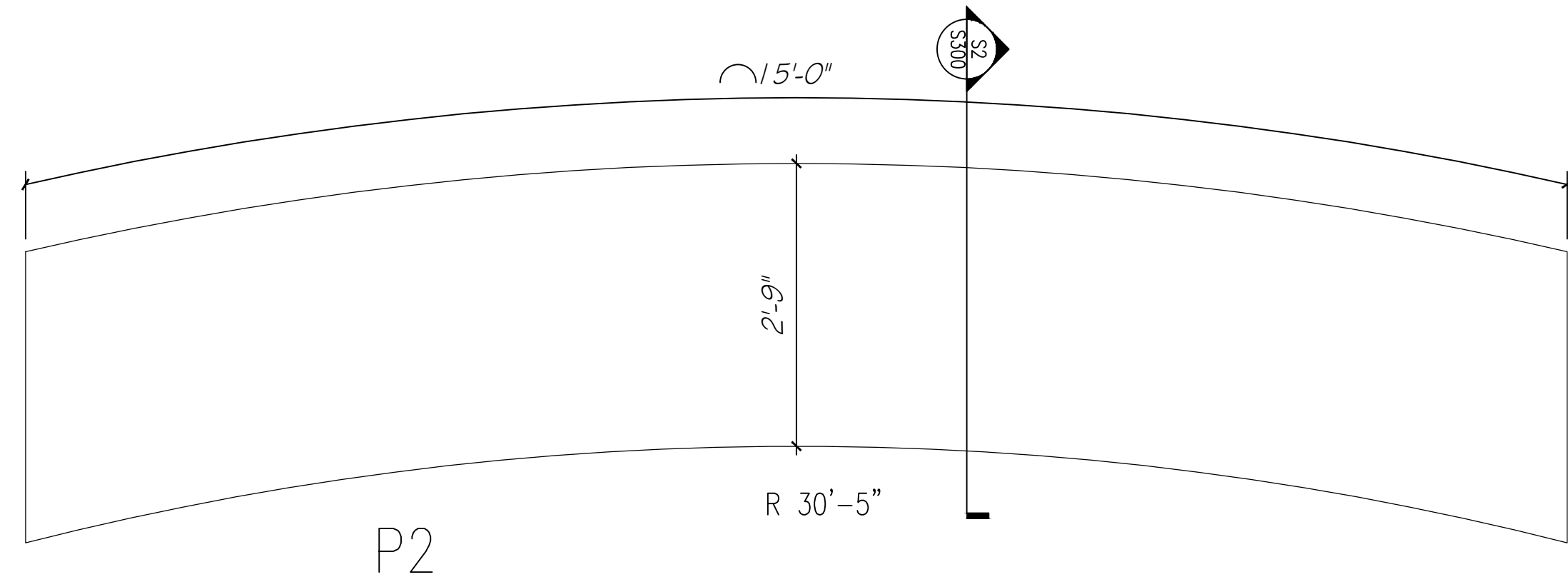
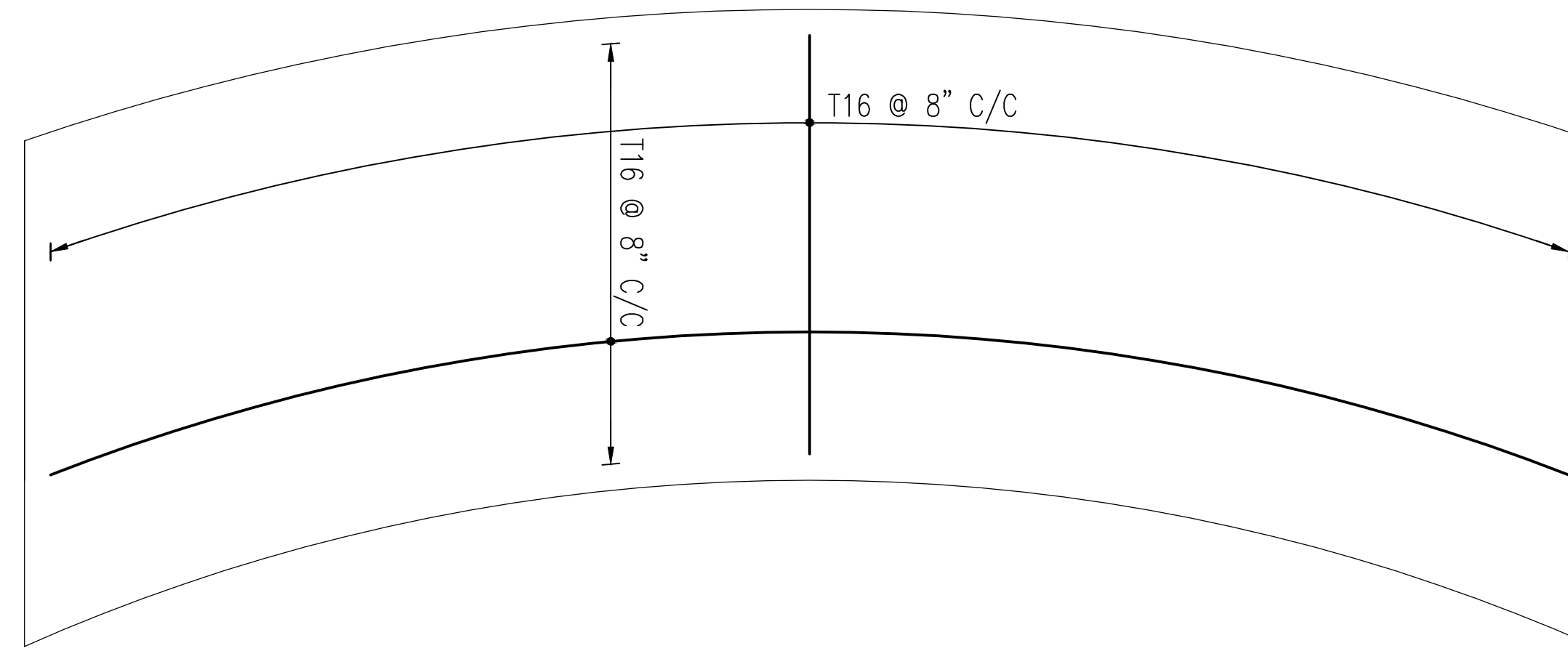
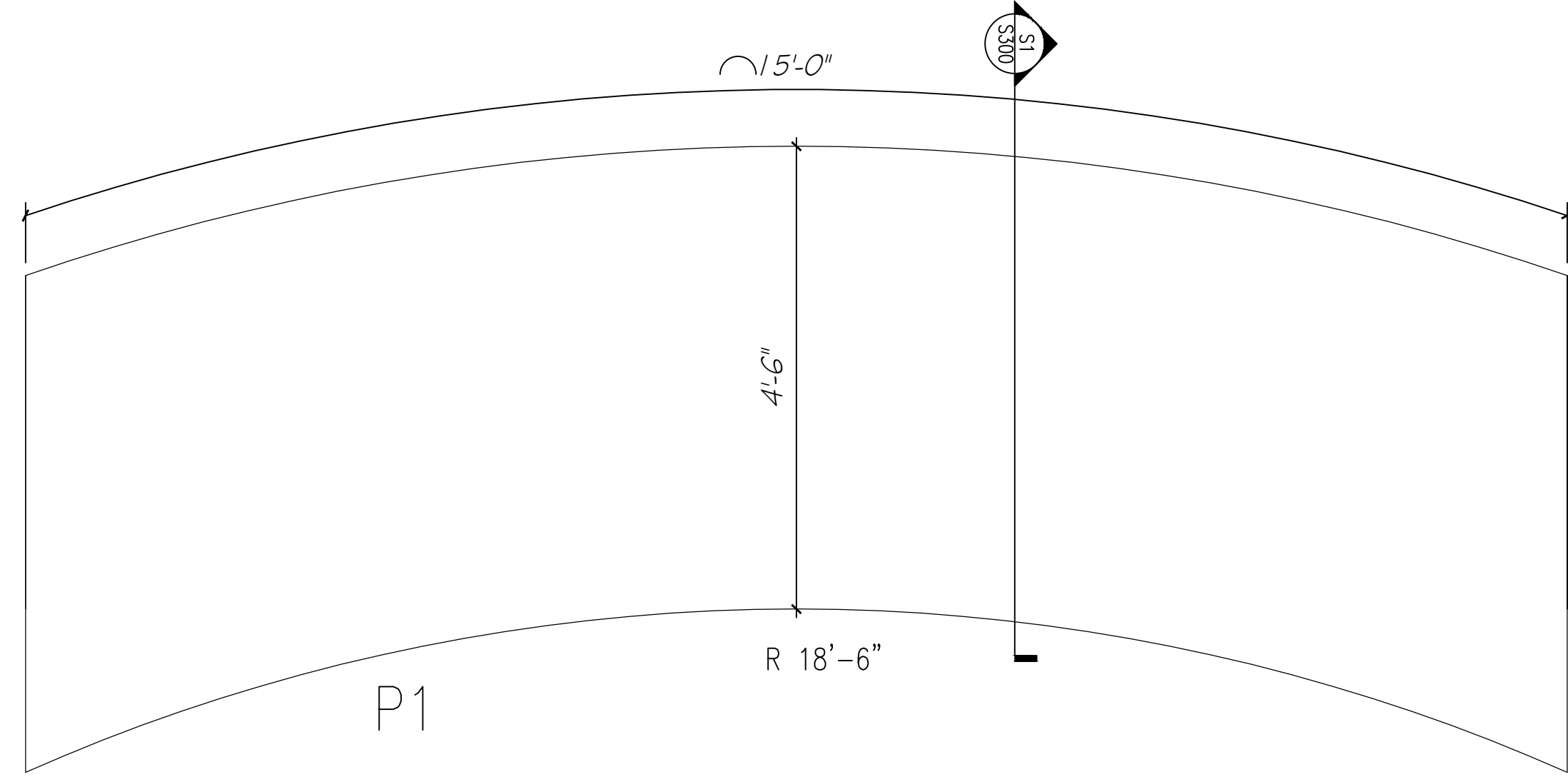
TITLE
 SCREENING PLANT
 GENERAL ARRANGEMENT FOUNDATION PLAN

DESIGN BY: RGW
 CHECKED BY: RB

JOB No: #01230001

DATE: 09-AUG-2024

REVISION: 0 SHEET No: S-100



(N.B. PLINTHS OUTLINED IN RED ABOVE ARE ONLY APPLICABLE TO P4A AND P4B)

SCREENING PLANT - FOUNDATION PLAN
SCALE: 3/4" = 1'-0"

FOUNDATION REINFORCEMENT PLAN - TOP AND BOT
SCALE: 3/4" = 1'-0"

ENGINEERING CONSULTANTS:



PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

REVISIONS			
No.	DATE	BY	REVISION
00	2024-08-09	RGW	ISSUED FOR PRELIMINARY PRICING
01	2024-08-12	RGW	ISSUED FOR PRELIMINARY PRICING

PROJECT DETAILS
PUBLIC WORKS QUARRY & DEPOT
QUARRY ROAD
HAMILTON PARISH
BERMUDA

TITLE
SCREENING PLANT
PAD FOOTING FOUNDATION PLAN

DESIGN BY: RGW
CHECKED BY: RB

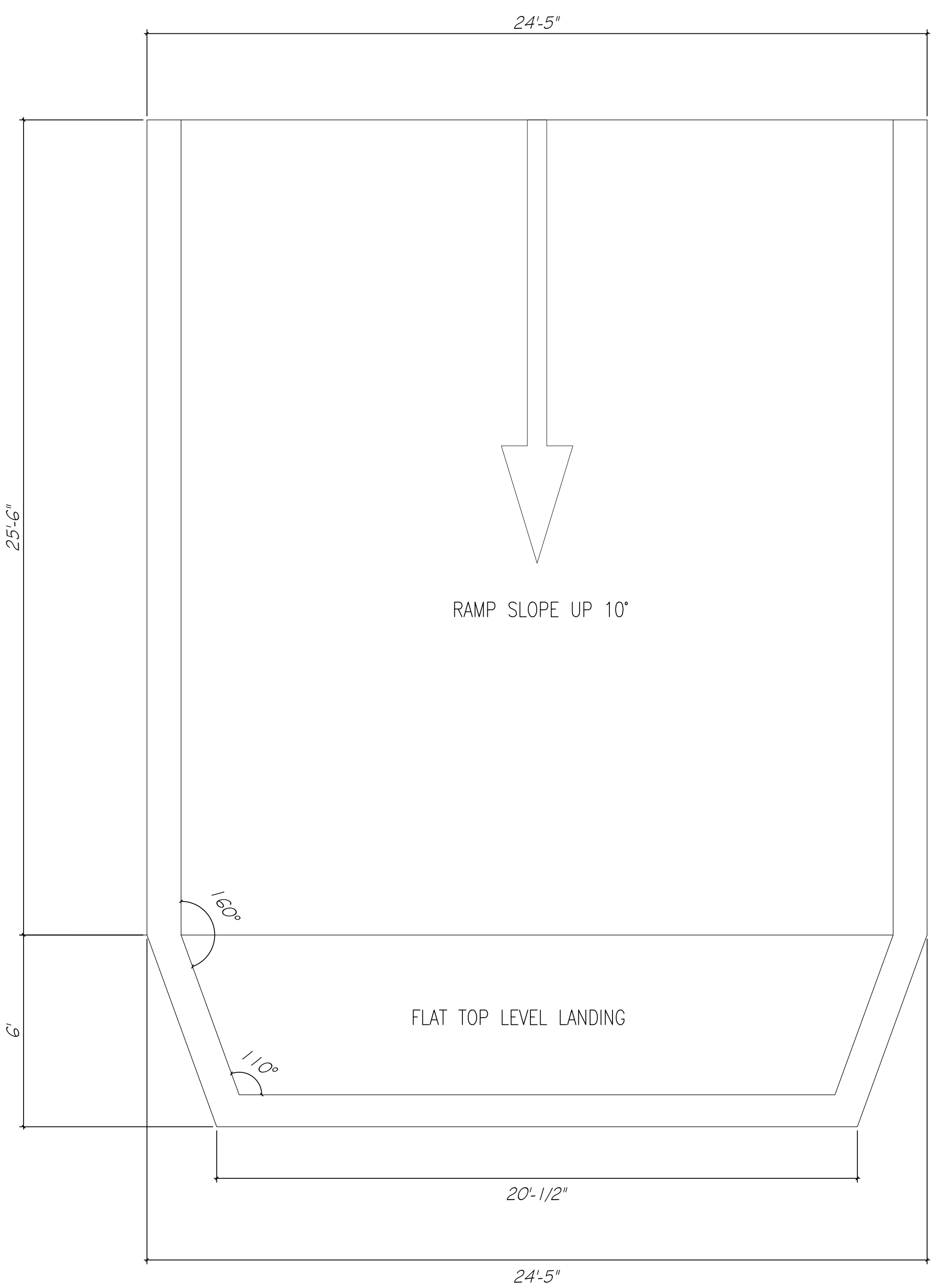
JOB No:

DATE: 09-AUG-2024

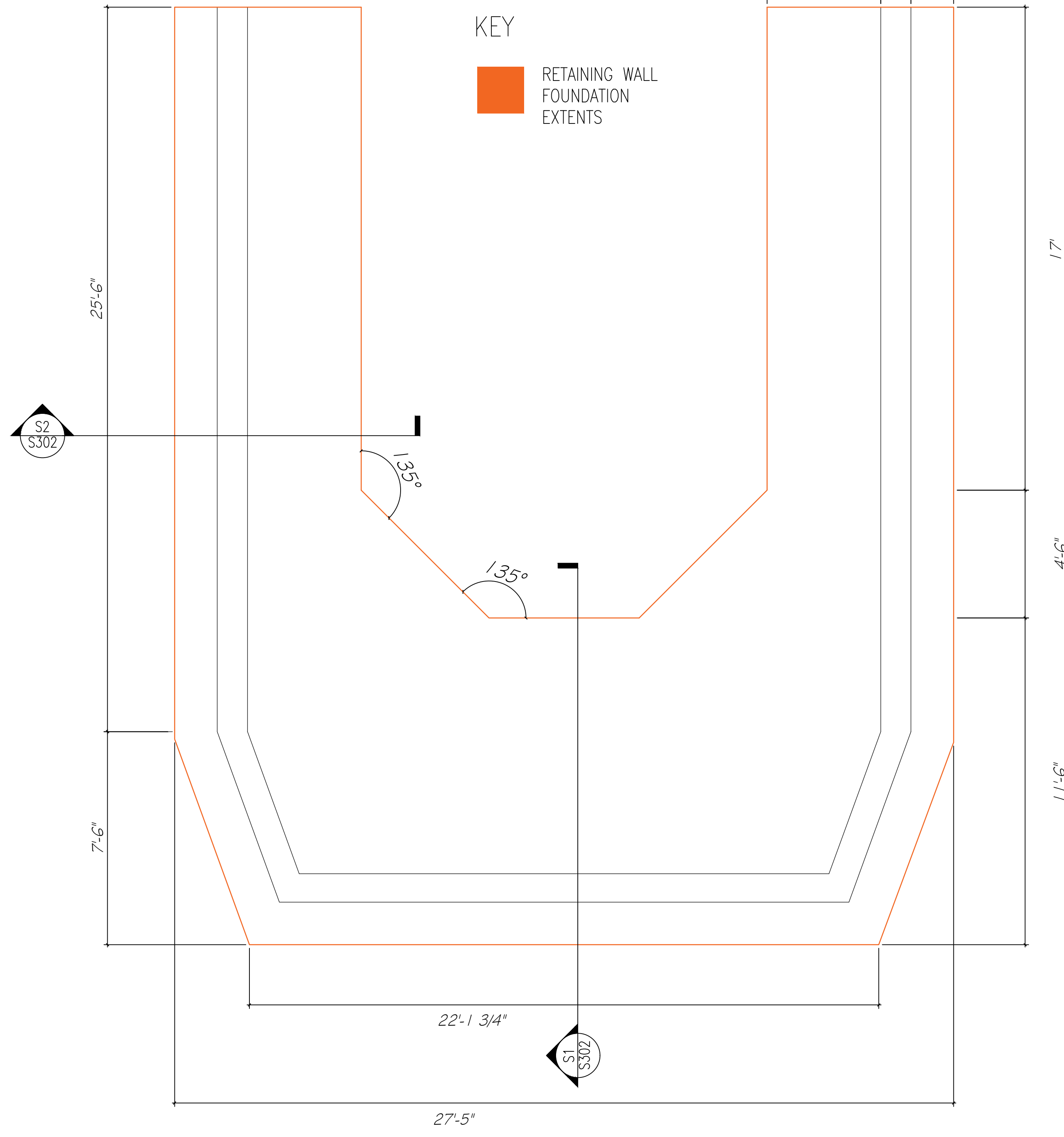
REVISION: 0

SHEET No: S-101

PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION



HOPPER/FEEDER RETAINING WALL - RAMP LAYOUT PLAN
 1/4" = 1'-0"



HOPPER/FEEDER RETAINING WALL - FOUNDATION PLAN
 1/4" = 1'-0"

REVISIONS

No.	DATE	BY	REVISION
00	2024-08-09	RGW	ISSUED FOR PRELIMINARY PRICING
01	2024-08-12	RGW	ISSUED FOR PRELIMINARY PRICING

PROJECT DETAILS
 PUBLIC WORKS QUARRY & DEPOT
 QUARRY ROAD
 HAMILTON PARISH
 BERMUDA

TITLE
 HOPPER FEEDER RETAINING WALL
 FOUNDATION AND RAMP LAYOUT PLAN

DESIGN BY: RGW
 CHECKED BY: RB

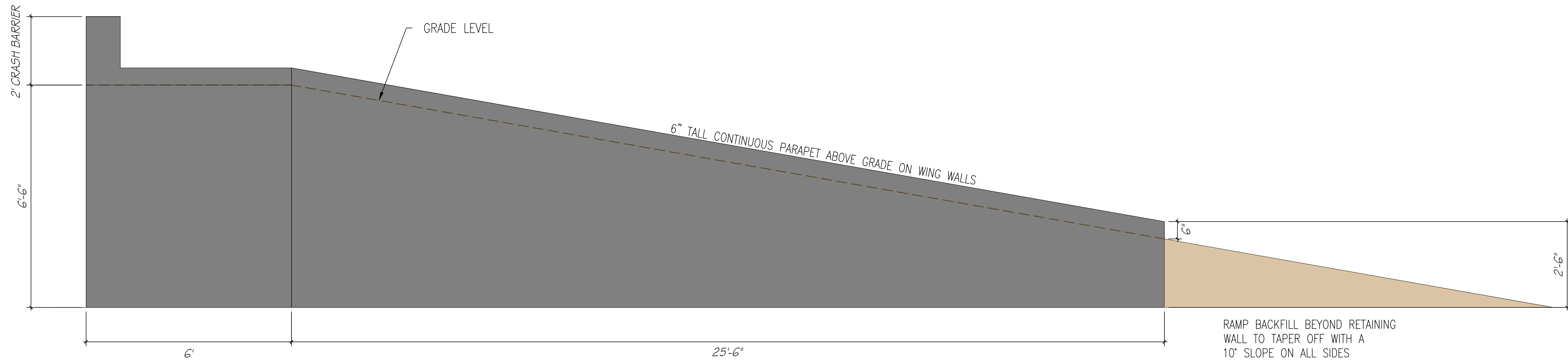
JOB No: #01230001

DATE: 09-AUG-2024

REVISION: 0 SHEET No: S-102



PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION



RAMP BACKFILL BEYOND RETAINING WALL TO TAPER OFF WITH A 10° SLOPE ON ALL SIDES

REVISIONS			
NO.	DATE	BY	REVISION
01	2024-08-12	RGW	ISSUED FOR PRELIMINARY PRICING

PROJECT DETAILS
 PUBLIC WORKS QUARRY & DEPOT
 QUARRY ROAD
 HAMILTON PARISH
 BERMUDA

TITLE
 SCREENING PLANT
 HOPPER/FEEDER RETAINING WALL
 RAMP ELEVATION

DESIGN BY: RGW
 CHECKED BY: RB

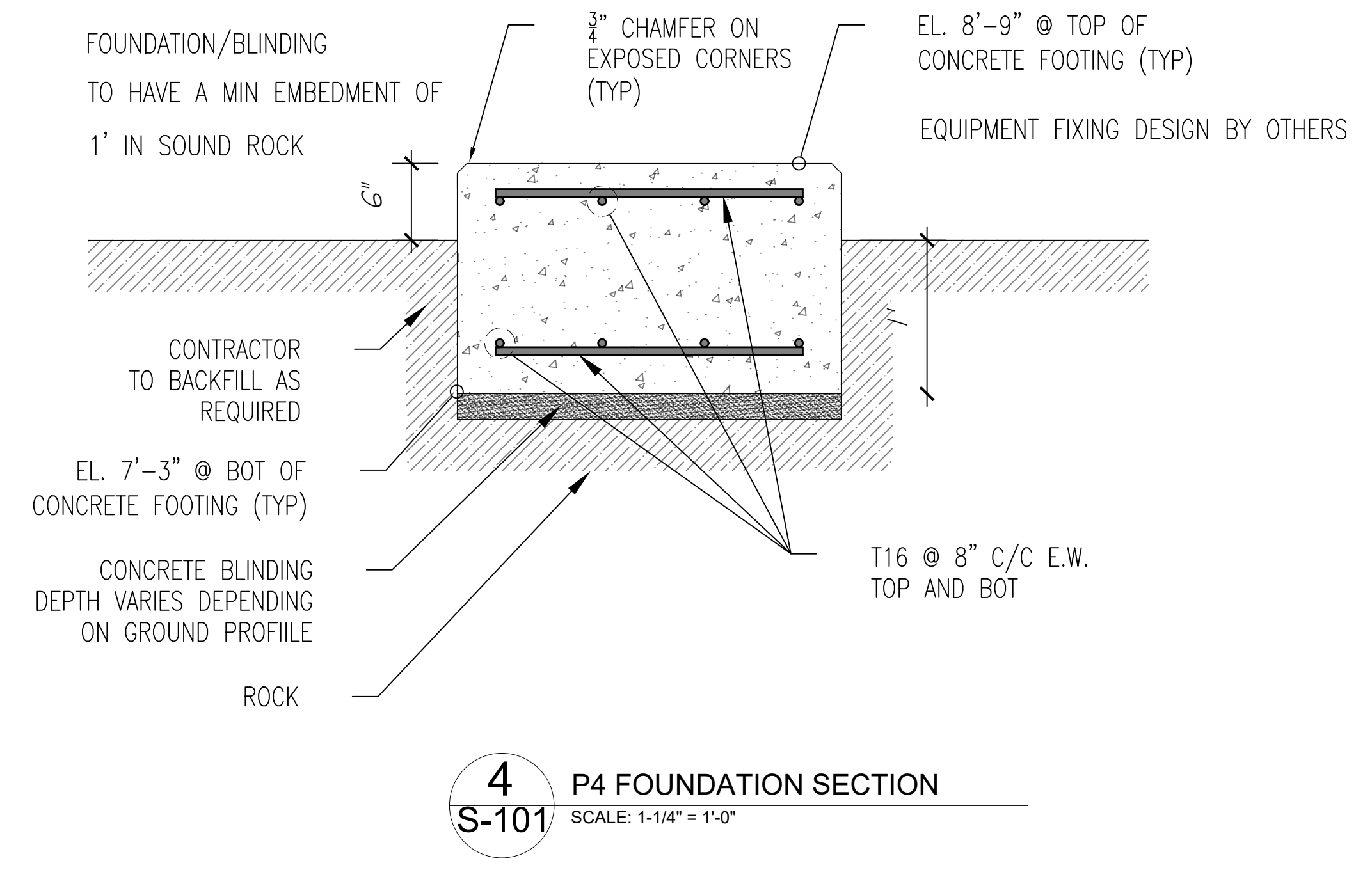
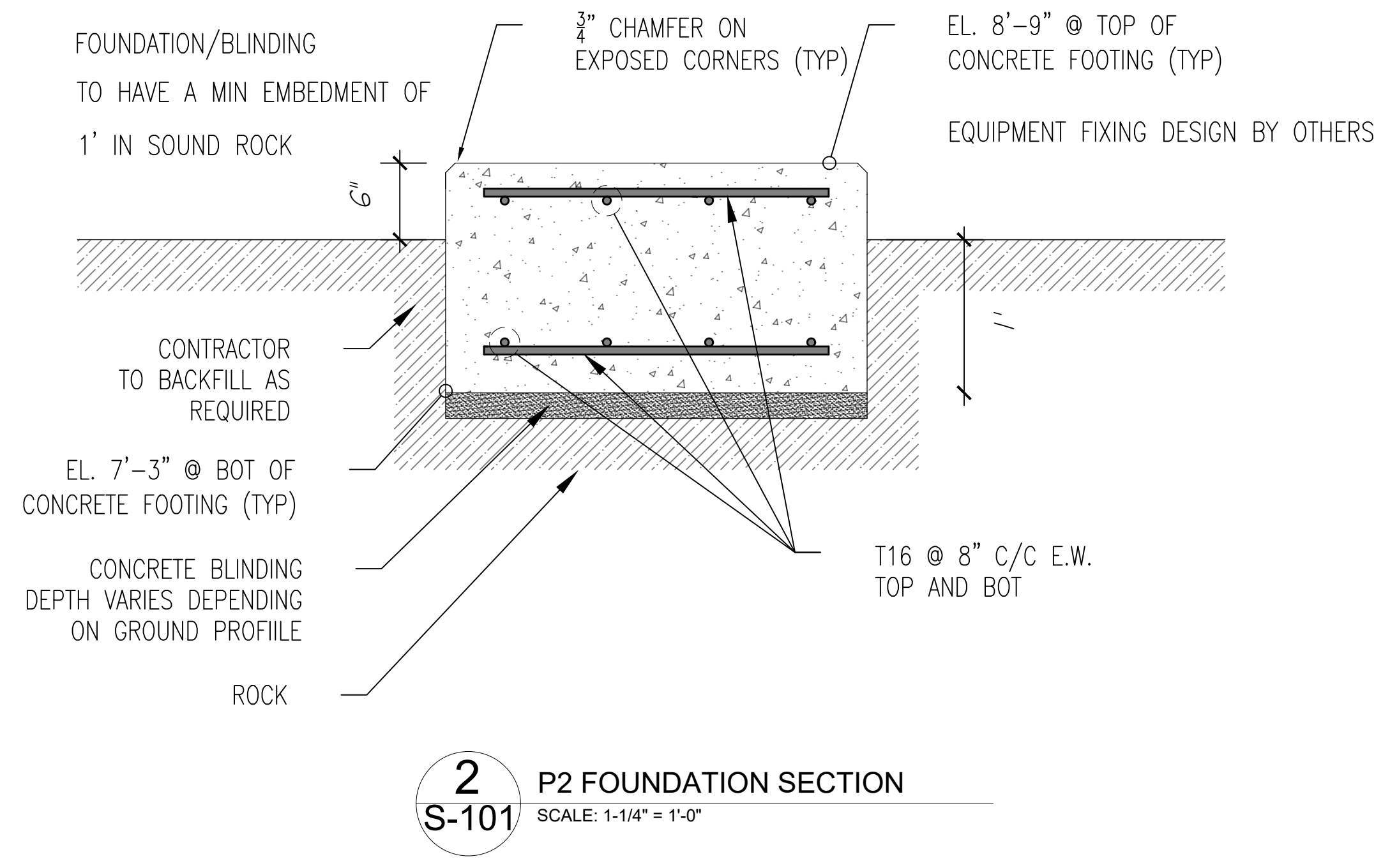
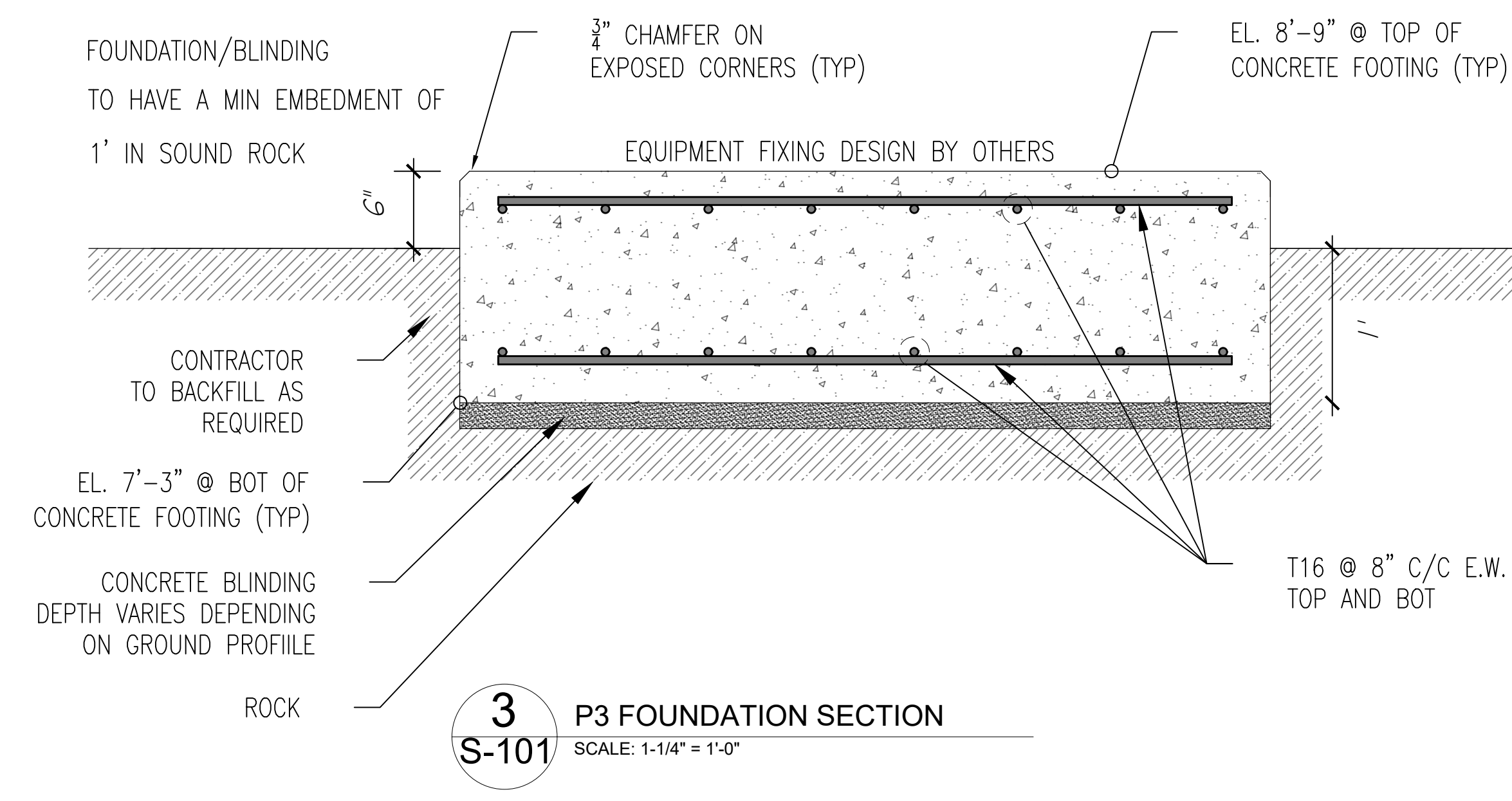
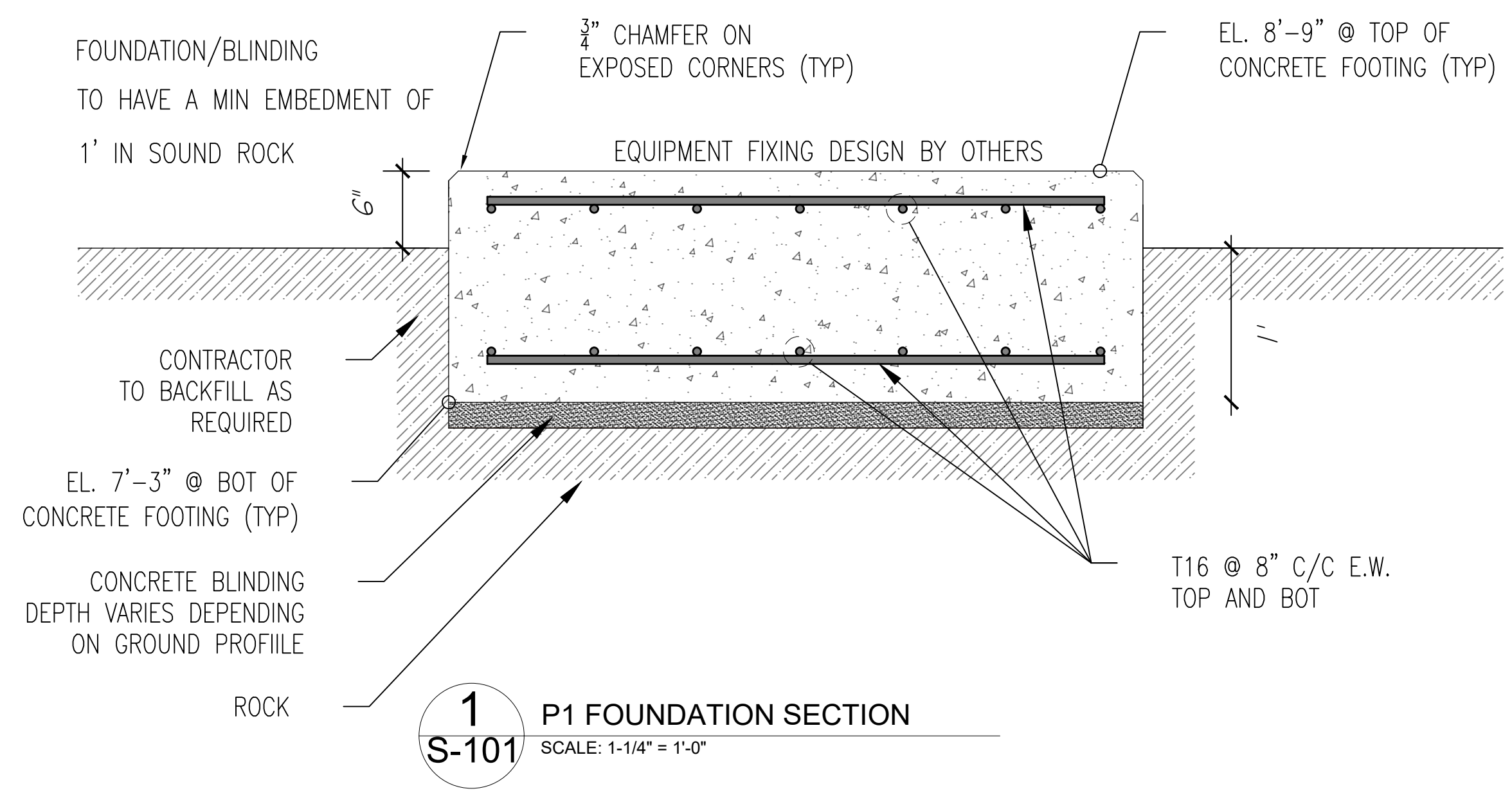
JOB No:

DATE: 09-AUG-2024

REVISION: 0 SHEET No: S-200

E1
S-102 HOPPER/FEEDER RAMP ELEVATION
 SCALE: 5/8" = 1'-0"

PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION



REVISIONS			
No.	DATE	BY	REVISION
00	2024-08-09	RGW	ISSUED FOR PRELIMINARY PRICING
01	2024-08-12	RGW	ISSUED FOR PRELIMINARY PRICING

PROJECT DETAILS

PUBLIC WORKS QUARRY & DEPOT
 QUARRY ROAD
 HAMILTON PARISH
 BERMUDA

TITLE

SCREENING PLANT
 PAD FOOTING
 FOUNDATION STRUCTURAL DETAILS

DESIGN BY: RGW
 CHECKED BY: RB

JOB No:

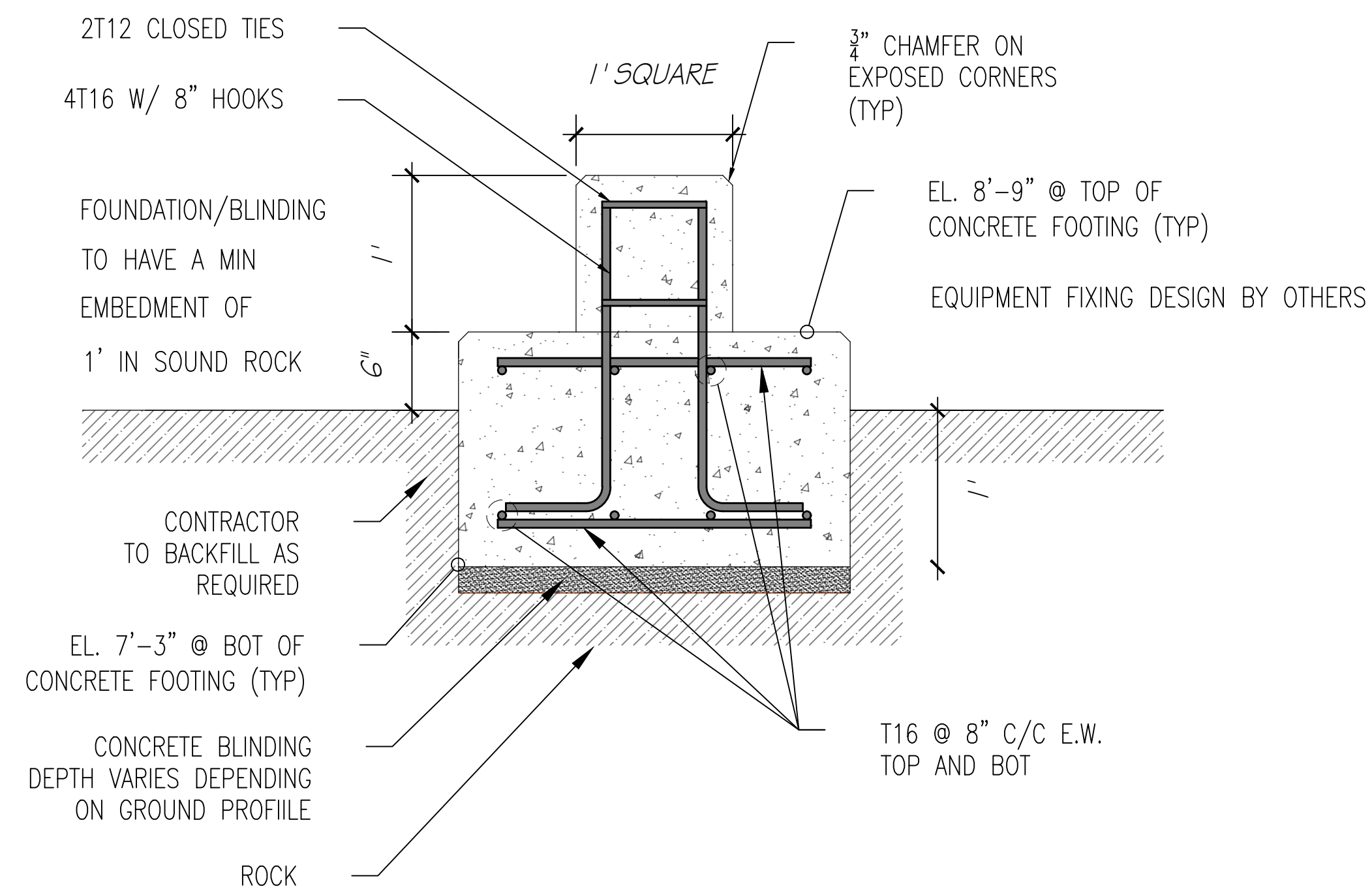
DATE: 09-AUG-2024

REVISION: 0

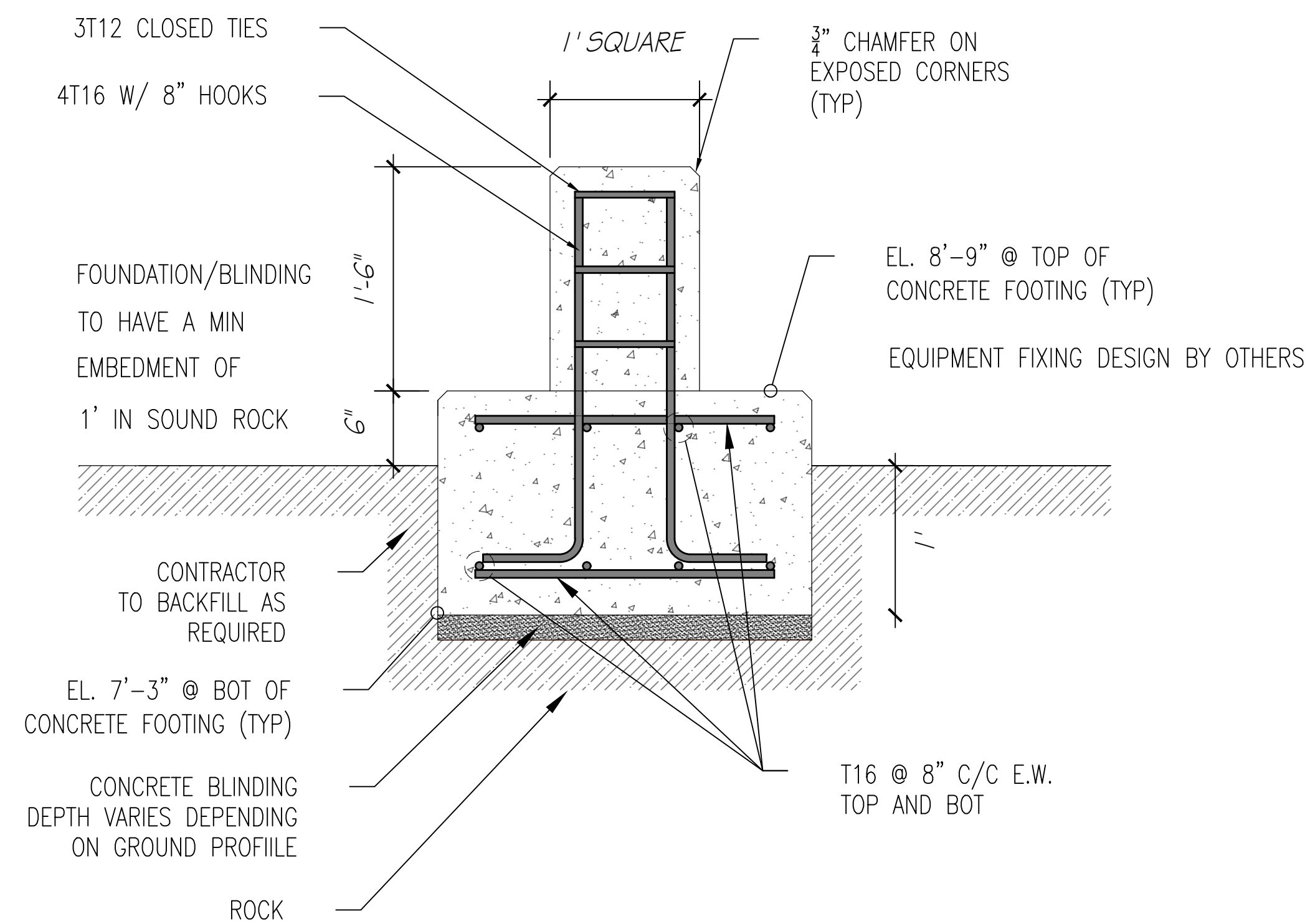
SHEET No: S-300



PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION



5 P4A FOUNDATION SECTION
 S-101 SCALE: 1-1/4" = 1'-0"



6 P4B FOUNDATION SECTION
 S-101 SCALE: 1-1/4" = 1'-0"

REVISIONS			
No.	DATE	BY	REVISION
00	2024-08-09	RGW	ISSUED FOR PRELIMINARY PRICING
01	2024-08-12	RGW	ISSUED FOR PRELIMINARY PRICING

PROJECT DETAILS
 PUBLIC WORKS QUARRY & DEPOT
 QUARRY ROAD
 HAMILTON PARISH
 BERMUDA

TITLE
 SCREENING PLANT
 PAD FOOTING
 FOUNDATION STRUCTURAL DETAILS

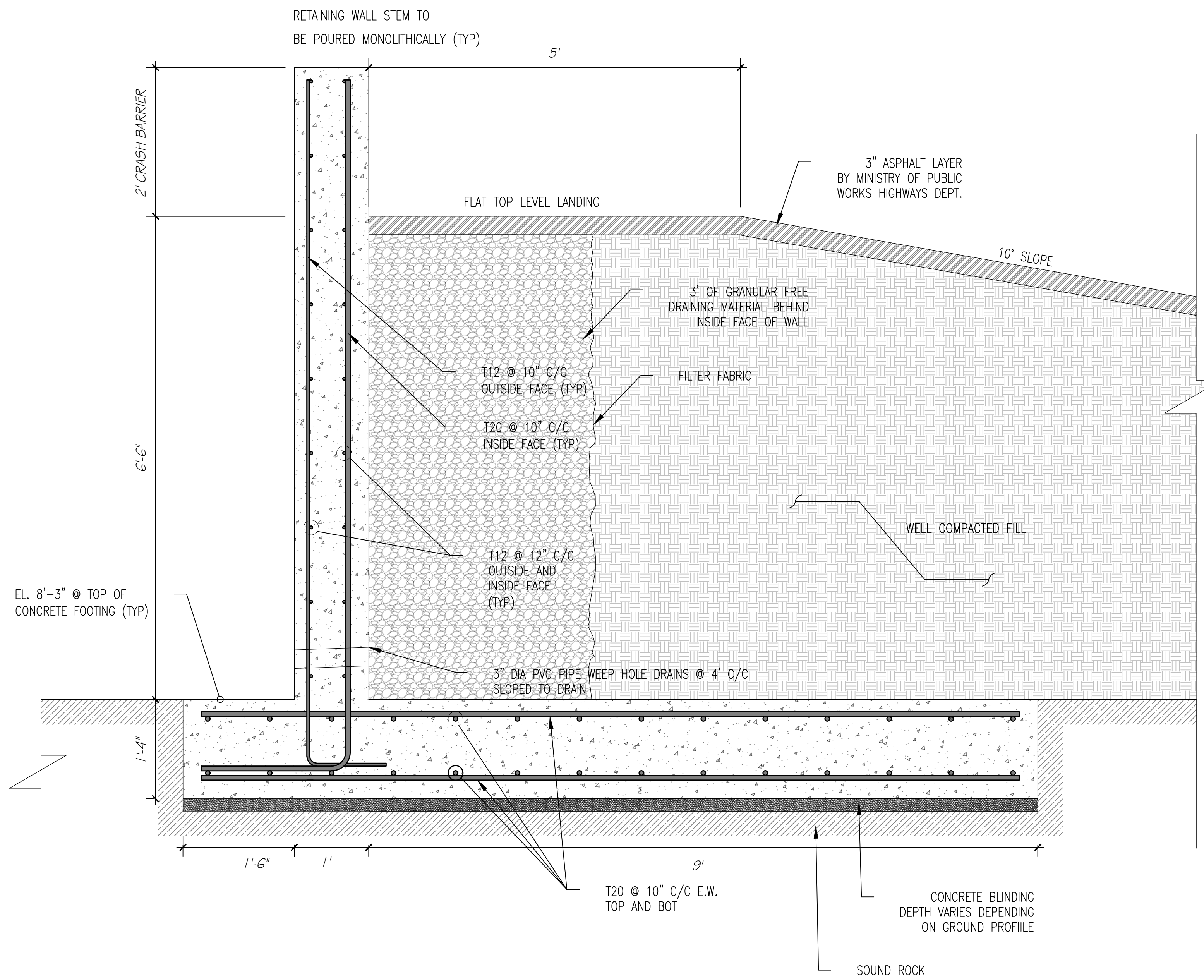
DESIGN BY: RGW
 CHECKED BY: RB

JOB No:

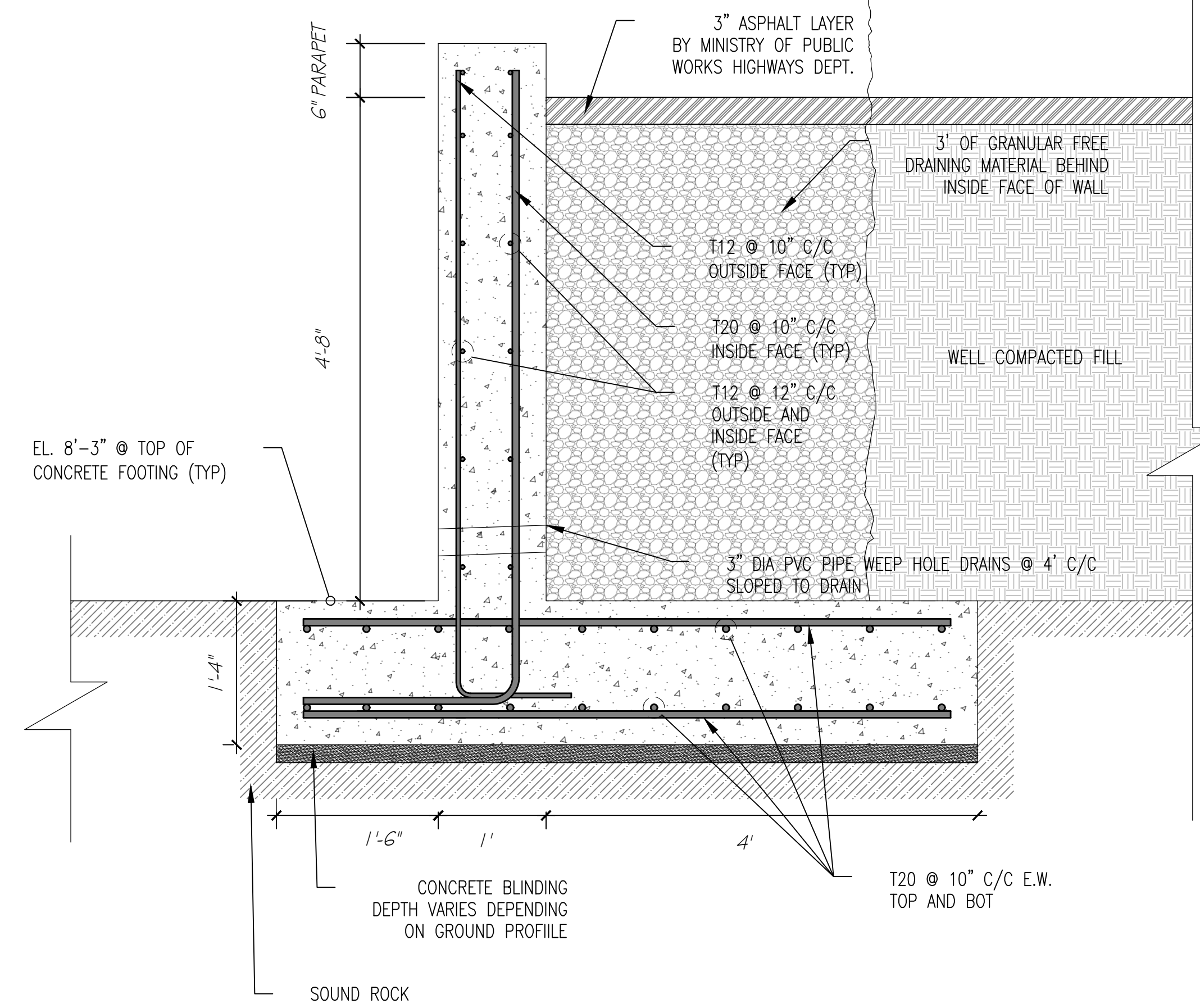
DATE: 09-AUG-2024

REVISION: 0 SHEET No: S-301

PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION



1 HOPPER/FEEDER RETAINING WALL SECTION
 S-102 SCALE: 1" = 1'-0"



2 WING RETAINING WALL SECTION
 S-102 SCALE: 1" = 1'-0"

REVISIONS			
No.	DATE	BY	REVISION
00	2024-08-09	RGW	ISSUED FOR PRELIMINARY PRICING
01	2024-08-12	RGW	ISSUED FOR PRELIMINARY PRICING

PROJECT DETAILS
 PUBLIC WORKS QUARRY & DEPOT
 QUARRY ROAD
 HAMILTON PARISH
 BERMUDA

TITLE
 SCREENING PLANT
 HOPPER/FEEDER RETAINING WALL
 STRUCTURAL DETAILS

DESIGN BY: RGW
 CHECKED BY: RB

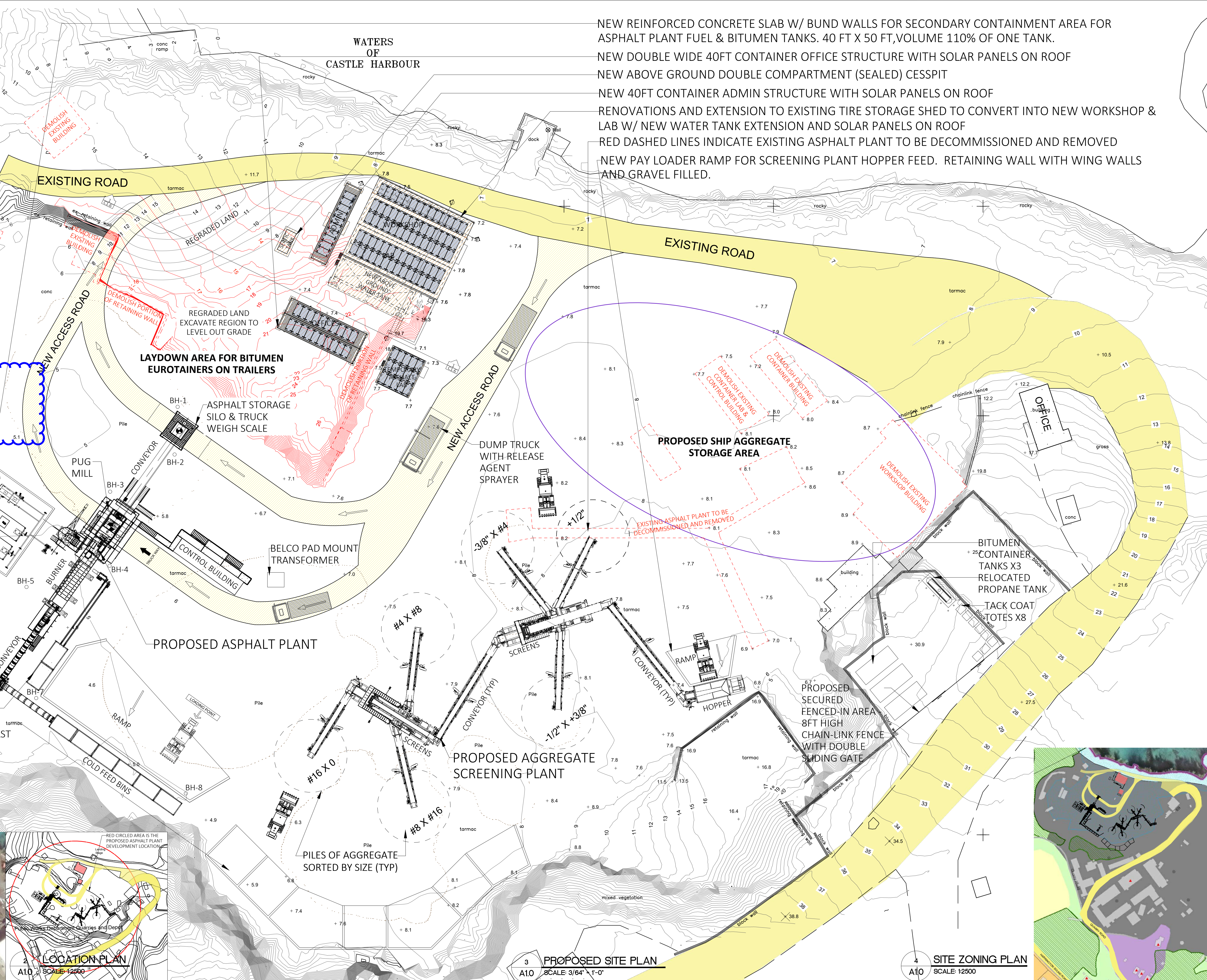
JOB No:

DATE: 09-AUG-2024

REVISION: **0** SHEET No: **S-302**

DRAWING INDEX

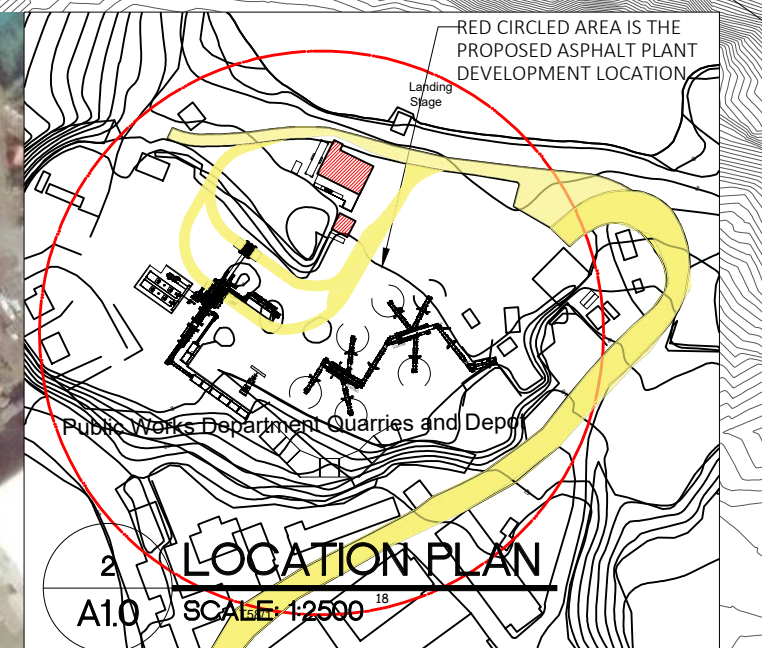
ARCHITECTURAL DRAWINGS	
DWG #	DRAWING TITLE
A1.0	PROPOSED SITE PLAN, LOCATION & ZONING PLAN
C1.0	PROPOSED SITE PLAN
EX1.0	EXISTING FLOOR PLANS - TIRE STORAGE SHED & BELCO VAULT
EX1.1	EXISTING ROOF PLANS - TIRE STORAGE SHED & BELCO VAULT
EX1.2	EXISTING ELEVATIONS - TIRE STORAGE SHED & BELCO VAULT
D1.0	PROPOSED DEMOLITION FLOOR PLANS - TIRE STORAGE SHED & BELCO VAULT
D1.1	PROPOSED DEMOLITION ROOF PLANS - TIRE STORAGE SHED & BELCO VAULT
D1.2	PROPOSED DEMOLITION ELEVATIONS - TIRE STORAGE SHED & BELCO VAULT
C1.1	PROPOSED SITE WORKS
C1.2	PROPOSED ASPHALT PLANT PLAN
C1.3	PROPOSED ASPHALT PLANT ELEVATIONS
C1.4	AGGREGATE SCREENING PLANT PLAN
C1.5	AGGREGATE SCREENING PLANT DETAILS & RENDERS
611022551	SCREENING PLANT - PLAN VIEW
611022552	SCREENING PLANT - ELEVATIONS
611022553	SCREENING PLANT - STAKING ARRANGEMENTS
C1.6	PROPOSED SITE REGRADING & SITE SECTION
F2409001	STORAGE SILO FOUNDATION PLAN
F2409002	STORAGE SILO FOUNDATION SECTIONS & DETAILS
F2409003	COLD FEED & RAP BINS FOUNDATION PLAN
F2409004	COLD FEED & RAP BINS FOUNDATION SECTIONS & DETAILS
F2409005	COLD FEED & RAP BINS FOUNDATION SECTIONS & DETAILS
F2409006	DRYER/TOWER FOUNDATION PLAN
F2409007	DRYER/TOWER FOUNDATION SECTIONS & DETAILS
F2409008	RECLAIMED FILLER SILO FOUNDATION PLAN & SECTION
F2409009	CONTROL CABIN FOUNDATION PLAN, SECTIONS & DETAILS
A1.1	PROPOSED WORKSHOP & LAB FOUNDATION PLANS
A1.2	PROPOSED WORKSHOP & LAB FLOOR PLANS
A1.3	PROPOSED WORKSHOP & LAB ROOF PLANS
A1.4	PROPOSED WORKSHOP & LAB REFLECTED CEILING
A2.1	PROPOSED WORKSHOP & LAB WEST & EAST ELEVATIONS
A2.2	PROPOSED WORKSHOP & LAB NORTH & SOUTH ELEVATIONS
A3.1	PROPOSED WORKSHOP & LAB SECTIONS
A4.1	PROPOSED DOOR & WINDOW SCHEDULES
MEP1.1	MECHANICAL, ELECTRICAL & PLUMBING PLAN



NEW REINFORCED CONCRETE SLAB W/ BUND WALLS FOR SECONDARY CONTAINMENT AREA FOR ASPHALT PLANT FUEL & BITUMEN TANKS. 40 FT X 50 FT, VOLUME 110% OF ONE TANK.
 NEW DOUBLE WIDE 40FT CONTAINER OFFICE STRUCTURE WITH SOLAR PANELS ON ROOF
 NEW ABOVE GROUND DOUBLE COMPARTMENT (SEALED) CESSPIT
 NEW 40FT CONTAINER ADMIN STRUCTURE WITH SOLAR PANELS ON ROOF
 RENOVATIONS AND EXTENSION TO EXISTING TIRE STORAGE SHED TO CONVERT INTO NEW WORKSHOP & LAB W/ NEW WATER TANK EXTENSION AND SOLAR PANELS ON ROOF
 RED DASHED LINES INDICATE EXISTING ASPHALT PLANT TO BE DECOMMISSIONED AND REMOVED
 NEW PAY LOADER RAMP FOR SCREENING PLANT HOPPER FEED. RETAINING WALL WITH WING WALLS AND GRAVEL FILLED.

500 GALLON BITUMEN TANK
 500 GALLON DIESEL TANK

RECYCLED ASPHALT FEED BINS
 SORTED AGGREGATE BUNKERS,
 REINFORCED SLABS ON GRADE & CAST
 IN PLACE REINFORCED WALLS.



3 PROPOSED SITE PLAN
 A1.0 SCALE: 3/64" = 1'-0"

4 SITE ZONING PLAN
 A1.0 SCALE: 1:2500



MINISTRY OF PUBLIC WORKS
 DEPARTMENT OF WORKS AND ENGINEERING
 Government Administration Building,
 3rd Floor | 56 Church Street | Hamilton, Bermuda HM12
 Tel: (441) 501-3005



- 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.

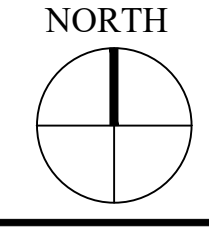
DAP 1 APPLICATION DRAWINGS

ISSUE / REVISION	
No.	Date:
1	Issued for Submission 26 Jun 2024
2	Issued for Submission 04 Jul 2024
3	Issued for Submission 22 Jul 2024

SCALE: 3/64" = 1'-0"

SURVEY
 Prepared By: GOVERNMENT LAND SURVEY DEPT
 Date:

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



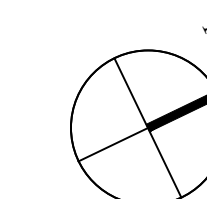
Approved By: TC

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 SITE PLAN, AERIAL & LOCATION PLAN

Revisions: 3
 Sheet Number: **A1.0**



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 26 Jun 2024
2	Issued for DAP 1 Submission 22 July 2024
3	Issued for DAP 1 Submission 26 July 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:

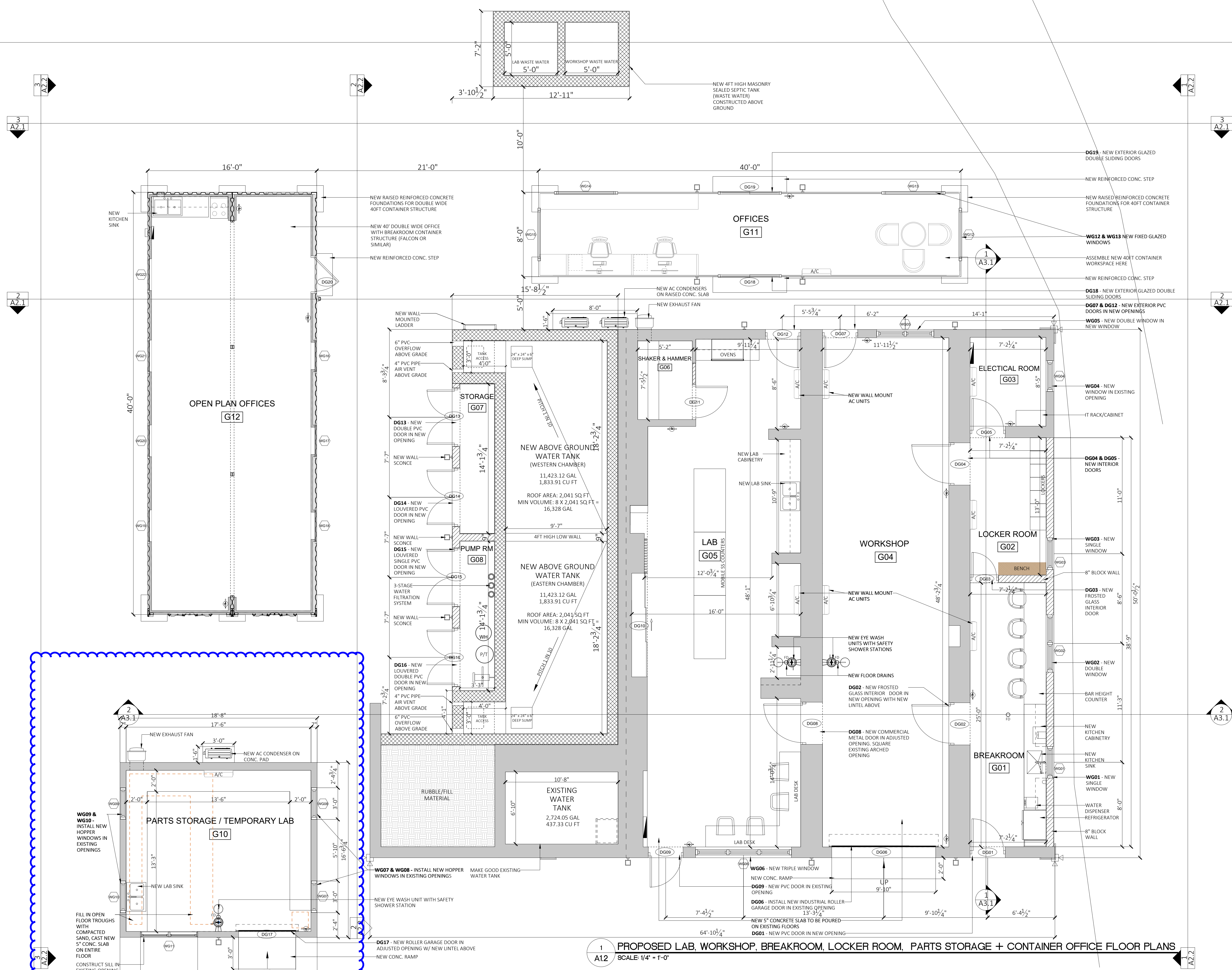
PROPOSED LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE & CONTAINER OFFICE FLOOR PLANS

Revisions:

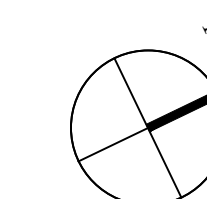
3

Sheet Number:

A1.2



1 A1.2 PROPOSED LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE + CONTAINER OFFICE FLOOR PLANS
SCALE: 1/4" = 1'-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	04 Jul 2024
2	Issued for DAP 1 Submission	22 Jul 2024
3	Issued for DAP 1 Submission	26 Jul 2024
4	Issued for Tender	13 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

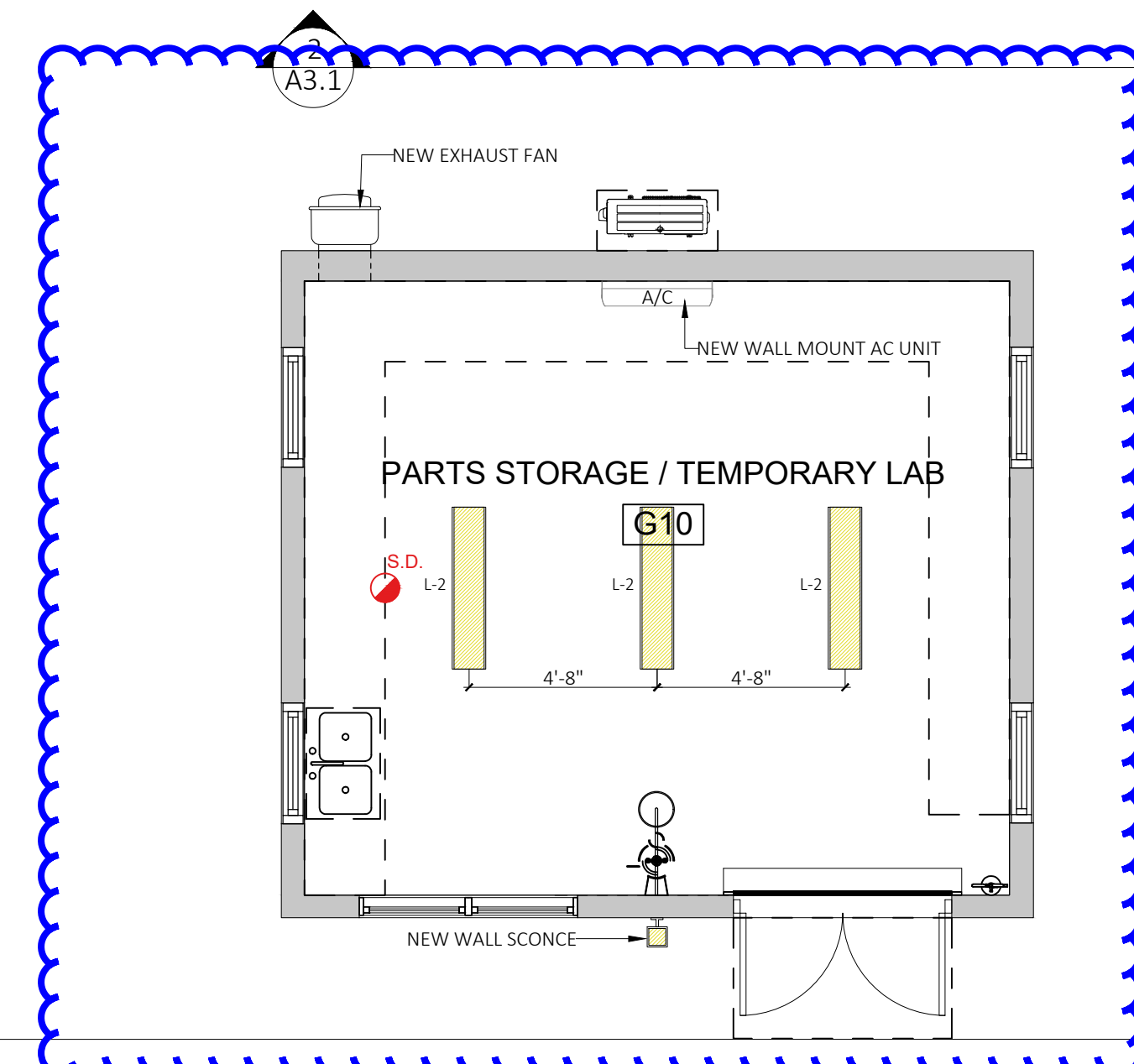
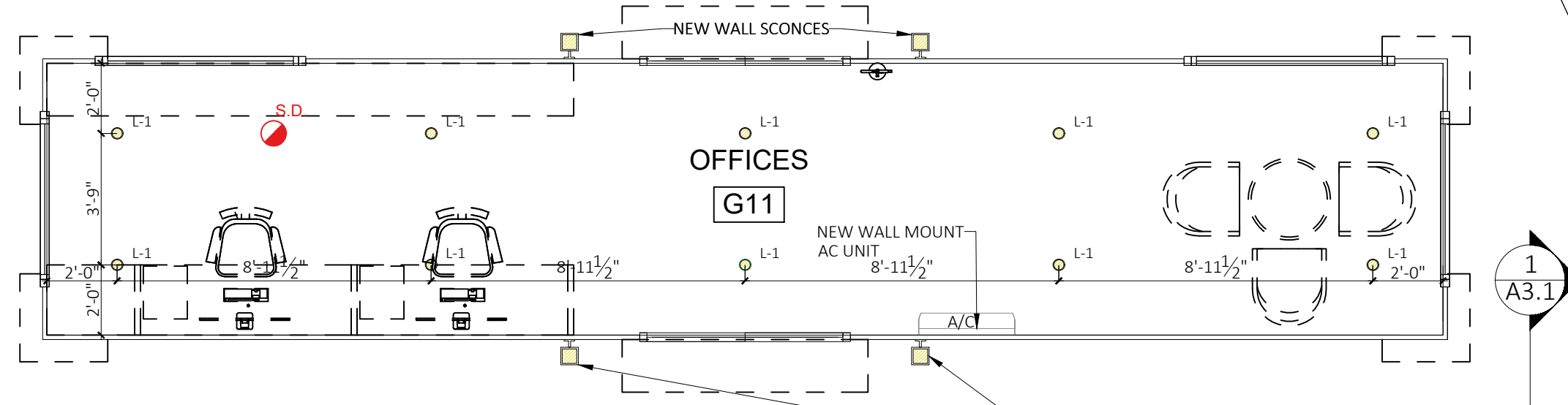
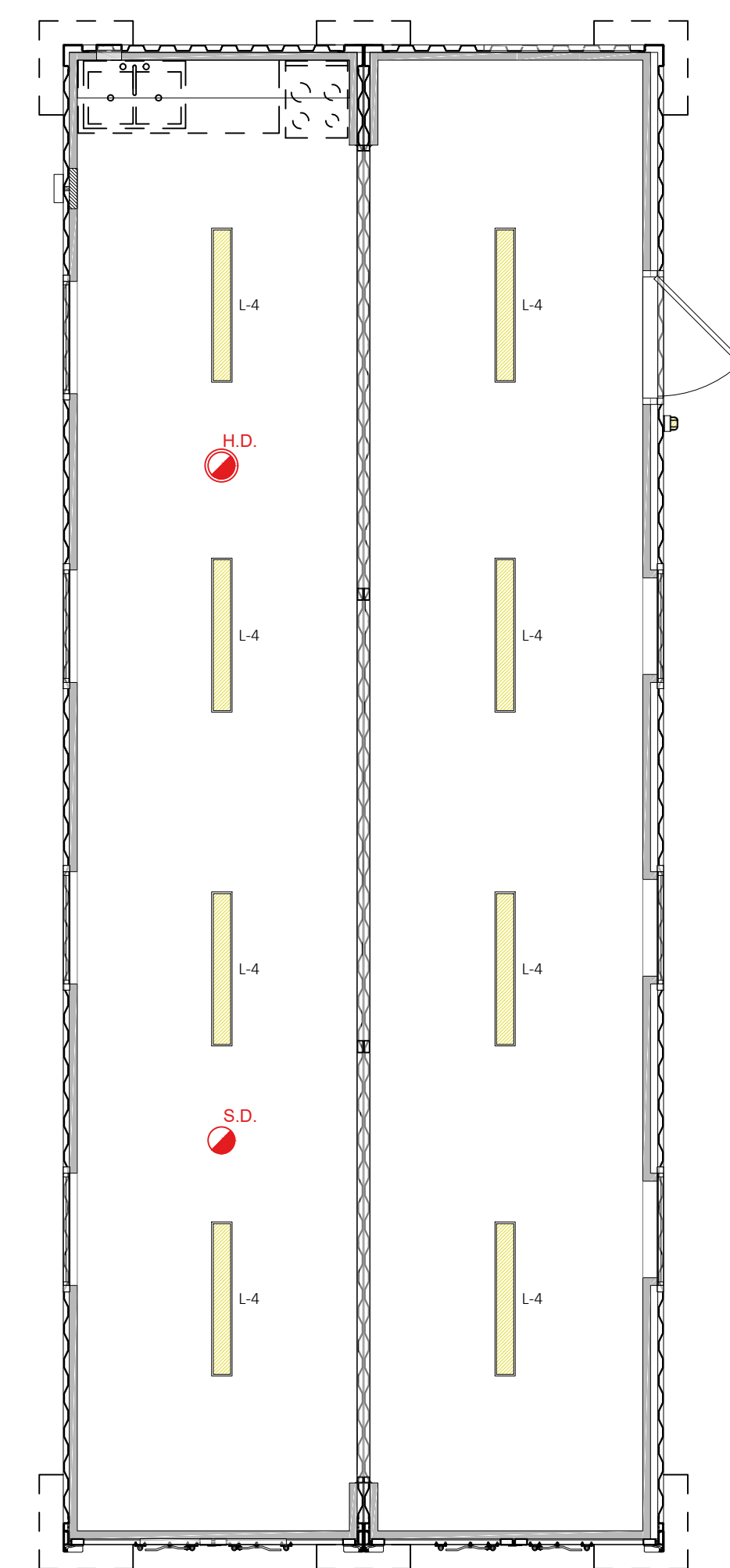
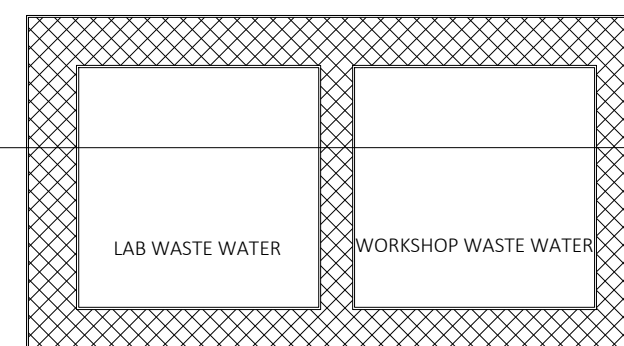
Sheet Title:

PROPOSED LAB, WORKSHOP,
BREAKROOM, LOCKER ROOM, PARTS
STORAGE & CONTAINER OFFICE
REFLECTED CEILING PLANS

Revisions: Sheet Number:



A1.4



1
A1.4 PROPOSED LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE + CONTAINER OFFICE RCP PLANS
SCALE: 1/4" = 1'-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 26 Jun 2024
	2	Issued for DAP 1 Submission 22 Jul 2024
	3	Issued for DAP 1 Submission 26 Jul 2024
	4	Issued for Tender 13 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

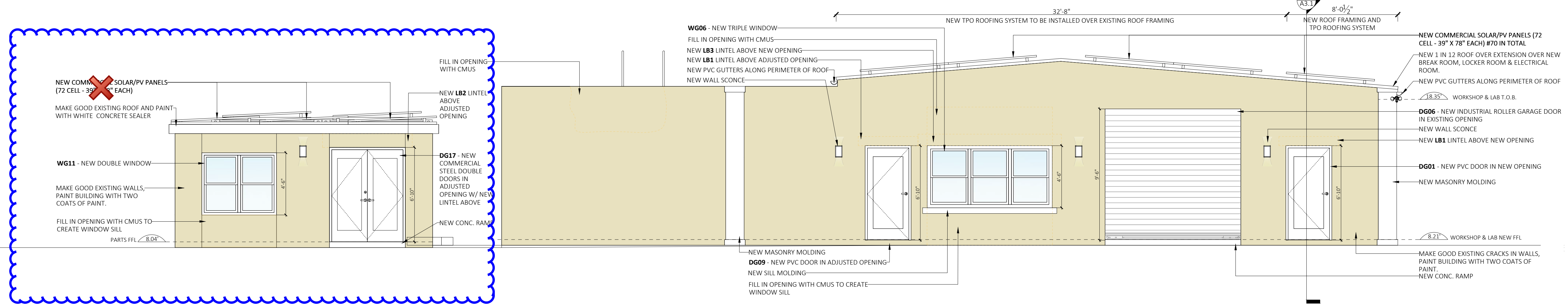
Project Number: 32/23/200 Brick Verde Ref Number: 240219AP

Project Title:
PROPOSED ASPHALT PLANT, AGGREGATE SCREENING PLANT, NEW WORKSHOP, LAB AND SITE SERVICES
PUBLIC WORKS QUARRY & DEPOT
QUARRY ROAD
HAMILTON PARISH
BERMUDA

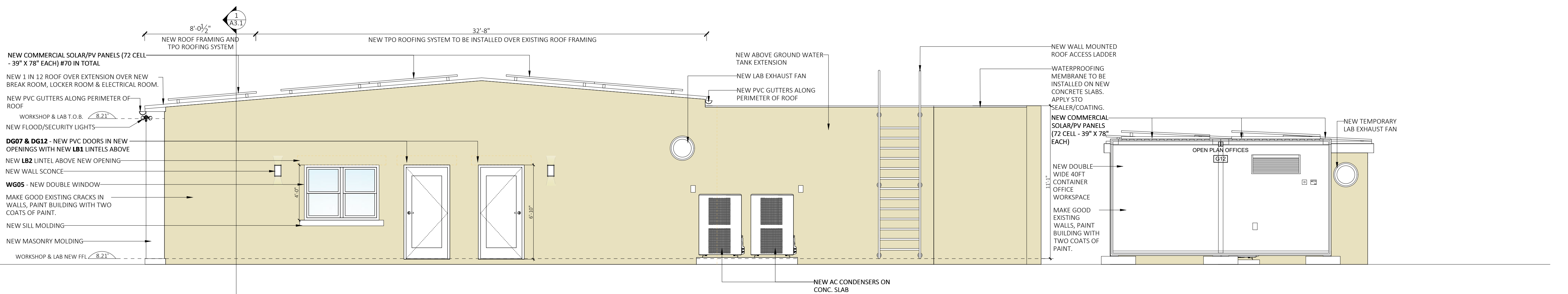
Sheet Title:
PROPOSED LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE & CONTAINER OFFICE - EAST & WEST ELEVATIONS

Revisions: Sheet Number:

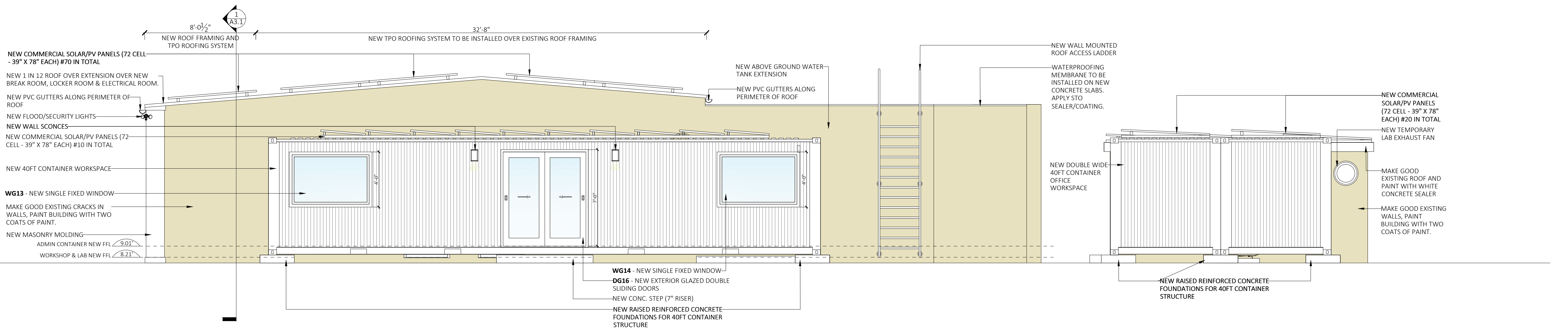
4 **A2.1**



1 PROPOSED EAST ELEVATION - LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE + CONTAINER OFFICE
SCALE: 1/4" = 1'-0"



2 PROPOSED WEST ELEVATION - LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE + CONTAINER OFFICE
SCALE: 1/4" = 1'-0"



3 PROPOSED WEST ELEVATION - LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE + CONTAINER OFFICE
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

G01 BREAKROOM | G02 LOCKER ROOM | G03 ELECTRICAL ROOM | G04 WORKSHOP | G05 LAB | G06 SHAKER & HAMMER ROOM | G07 STORAGE | G08 PUMP ROOM |

<p>DG01 DG12</p> <p>SINGLE EXTERIOR PVC DOOR DOOR RO: 40"W X 82"H DOOR HANDING: LH COLOR: WHITE HARDWARE: COMMERCIAL</p>	<p>DG02</p> <p>SINGLE TIMBER FROSTED GLASS DOOR DOOR RO: 48"W X 82"H DOOR HANDING: RH COLOR: WHITE HARDWARE: COMMERCIAL</p>	<p>DG03</p> <p>SINGLE INTERIOR TIMBER DOOR DOOR RO: 32"W X 82"H DOOR HANDING: LH COLOR: WHITE HARDWARE: COMMERCIAL</p>	<p>DG04</p> <p>SINGLE INTERIOR TIMBER DOOR DOOR RO: 48"W X 82"H DOOR HANDING: RH COLOR: WHITE HARDWARE: COMMERCIAL</p>	<p>DG05 DG11</p> <p>SINGLE INTERIOR TIMBER DOOR DOOR RO: 40"W X 82"H DOOR HANDING: LH COLOR: WHITE HARDWARE: COMMERCIAL</p>	<p>DG17</p> <p>ROLLER SHUTTER DOOR RO: 118"W X 114"H DOOR HANDING: ROLLER SHUTTER INSTALLED ON INTERIOR FACE COLOR: WHITE</p>	<p>DG07</p> <p>SINGLE EXTERIOR PVC DOOR DOOR RO: 40"W X 82"H DOOR HANDING: RH COLOR: WHITE HARDWARE: COMMERCIAL</p>	<p>DG10</p> <p>TRIPLE BYPASS TIMBER CLOSET DOORS DOOR RO: 40"W X 82"H DOOR HANDING: BOTH COLOR: WHITE</p>	<p>DG13 DG14</p> <p>DOUBLE EXTERIOR PVC UTILITY DOORS DOOR RO: 40"W X 82"H DOOR HANDING: BOTH COLOR: WHITE HARDWARE: COMMERCIAL</p>	<p>DG15 DG16</p> <p>DOUBLE EXTERIOR LOUVERED PVC UTILITY DOORS DOOR RO: 40"W X 82"H DOOR HANDING: BOTH COLOR: WHITE HARDWARE: COMMERCIAL</p>
--	--	---	---	---	--	--	--	---	--

G10 PARTS STORAGE / TEMPORARY LAB

DG17

EXTERIOR COMMERCIAL STEEL DOUBLE DOORS
RO: 66"W X 82"H
HARDWARE: COMMERCIAL LOCKSET

G11 OFFICES

DG18
DG19

AUTOMATED EXTERIOR GLASS SLIDING DOORS
DOOR RO: 76"W X 84"H
COLOR: WHITE
HARDWARE: COMMERCIAL

G12 OPEN PLAN OFFICES

DG20

SINGLE EXTERIOR METAL DOOR
DOOR RO: 32"W X 82"H
DOOR HANDING: LH
PART OF CONTAINER STRUCTURE ASSEMBLY

WINDOW SCHEDULE

G01 BREAKROOM | G02 LOCKER ROOM | G03 ELECTRICAL ROOM | G04 WORKSHOP | G05 LAB

<p>WG01 WG03</p> <p>SINGLE DOUBLE HUNG PVC WINDOW WINDOW RO: 36"W X 40"H</p>	<p>WG02</p> <p>DOUBLE DOUBLE HUNG PVC WINDOW WINDOW RO: 66"W X 40"H</p>	<p>WG04</p> <p>SINGLE CASEMENT PVC WINDOW WINDOW RO: 36"W X 30"H</p>	<p>WG05</p> <p>DOUBLE DOUBLE HUNG PVC WINDOW WINDOW RO: 66"W X 48"H</p>	<p>WG06</p> <p>TRIPLE DOUBLE HUNG PVC WINDOW WINDOW RO: 108"W X 54"H</p>
--	--	---	--	---

G10 PARTS STORAGE / TEMPORARY LAB

WG07
WG08
WG09
WG10

HOPPER PVC WINDOW
WINDOW RO: 36"W X 18"H

WG11

DOUBLE DOUBLE HUNG PVC WINDOW (IMPACT RESISTANT)
WINDOW RO: 66"W X 54"H

G11 OFFICES

WG12
WG15

FIXED SINGLE PVC WINDOW
WINDOW RO: 60"W X 48"H

WG13
WG14

FIXED SINGLE PVC WINDOW
WINDOW RO: 72"W X 48"H

G12 OPEN PLAN OFFICES

WG16
WG17
WG18
WG19
WG20
WG21
WG22

SINGLE DOUBLE HUNG PVC WINDOW
WINDOW RO: 39"W X 39"H PART OF CONTAINER STRUCTURE ASSEMBLY



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.	Issue / Revision	Date:
1	Issued for Tender	09 Aug 2024
2	Issued for Tender	13 Aug 2024

SCALE: 3/8" = 1'-0"

SURVEY

Prepared By: KGW Date: 15/05/2024
GOVERNMENT LAND SURVEY DEPT

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

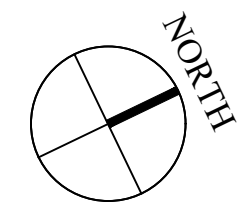
Project Title:

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

PUBLIC WORKS QUARRY & DEPOT
QUARRY ROAD
HAMILTON PARISH
BERMUDA

Sheet Title:
PROPOSED DOOR & WINDOW SCHEDULES

Revisions: Sheet Number:



- 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

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

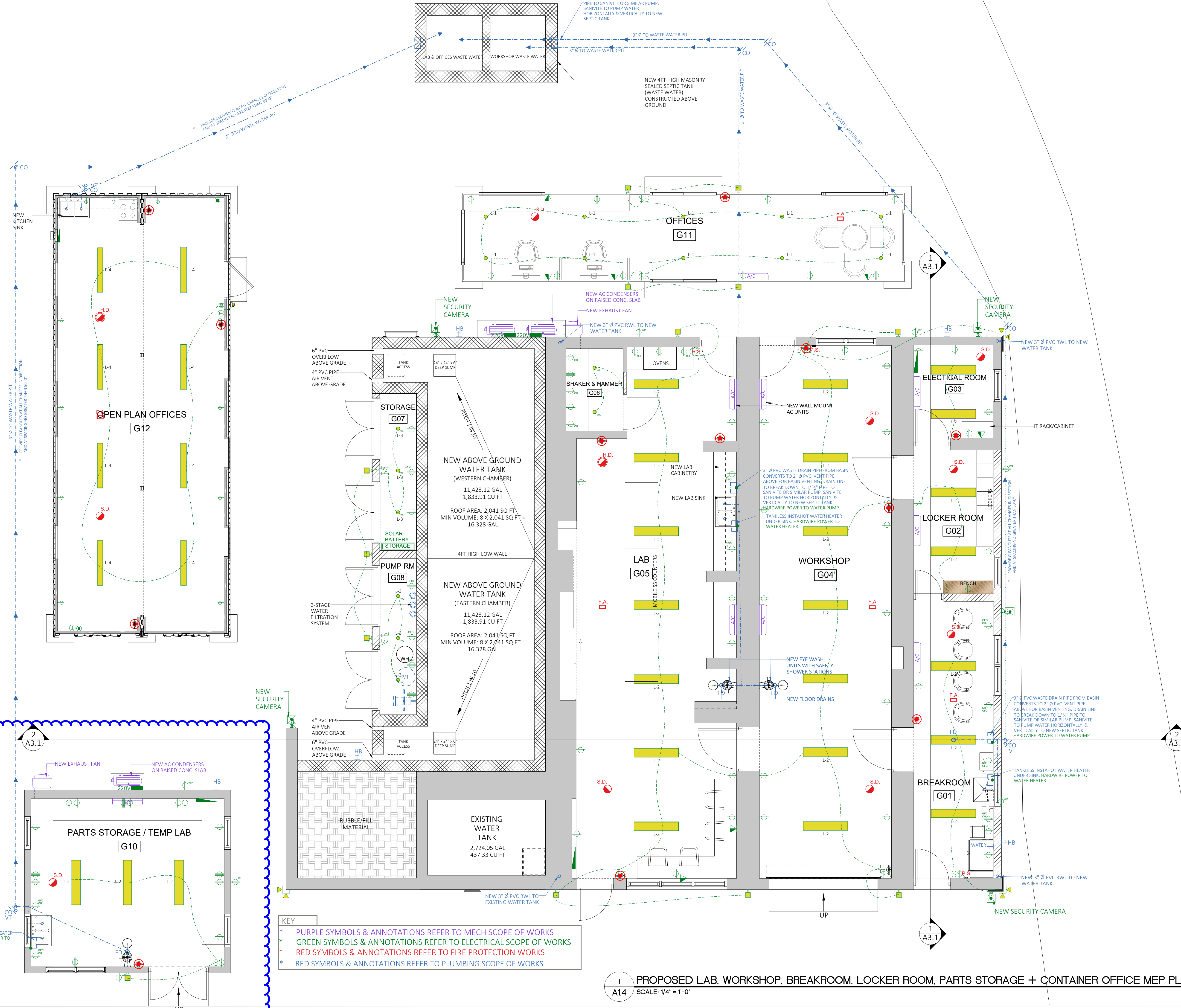
Project Number: 32/23/200
Brick Verde Ref Number: 240219AP

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

PUBLIC WORKS QUARRY & DEPOT
QUARRY ROAD
HAMILTON PARISH
BERMUDA

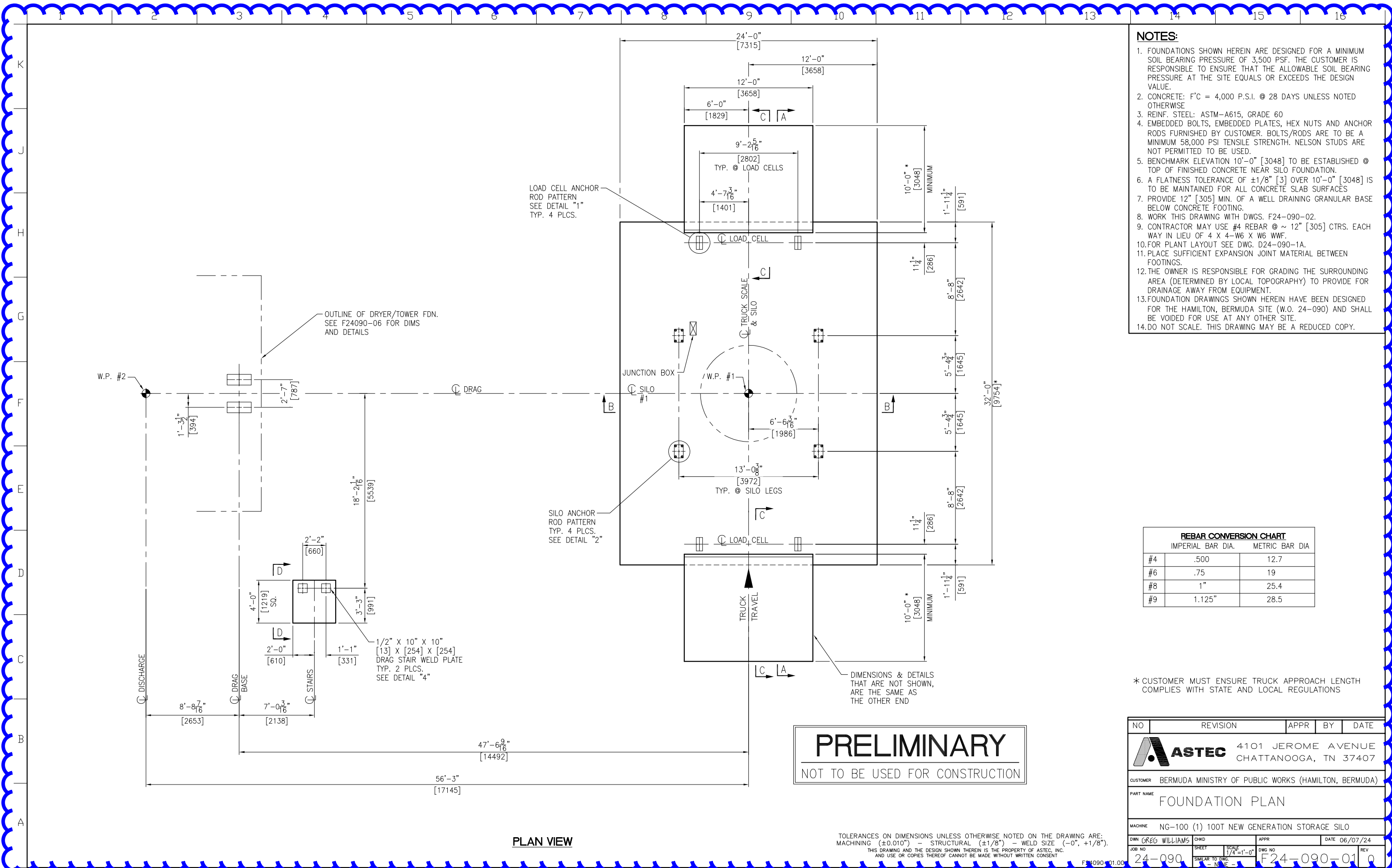
Sheet Title:
PROPOSED LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE & CONTAINER OFFICE MECHANICAL, ELECTRICAL, PLUMBING

Revisions: 3
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 A14 PROPOSED LAB, WORKSHOP, BREAKROOM, LOCKER ROOM, PARTS STORAGE + CONTAINER OFFICE MEP PLANS
SCALE: 1/4" = 1'-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.
 - WORK THIS DRAWING WITH DWGS. F24-090-02.
 - 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.
 - PLACE SUFFICIENT EXPANSION JOINT MATERIAL BETWEEN FOOTINGS.
 - 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

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

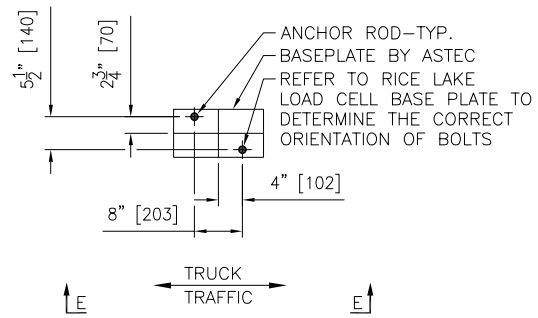
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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
JOB NO	24-090	SHEET	1/4" = 1'-0"	DATE
				06/07/24
				REV
				0

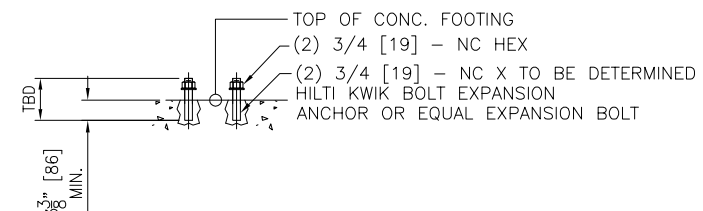
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
MACHINING (+0.010") - STRUCTURAL (±1/8") - WELD SIZE (-0", +1/8").
THIS DRAWING AND THE DESIGN SHOWN THEREIN IS THE PROPERTY OF ASTEC, INC.
AND USE OR COPIES THEREOF CANNOT BE MADE WITHOUT WRITTEN CONSENT.

PLAN VIEW

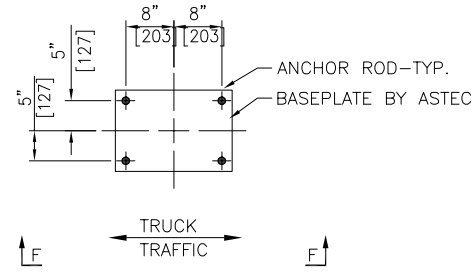
NOTES:
1. FOR NOTES SEE DWG. F24-090-01



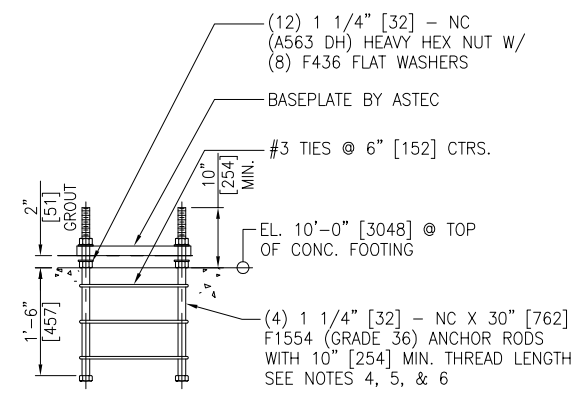
DETAIL "1"
(LOAD CELL ANCHOR ROD PATTERN)
TYP. AT EACH LOAD CELL
4 REQ'D. TOTAL
SCALED 3X



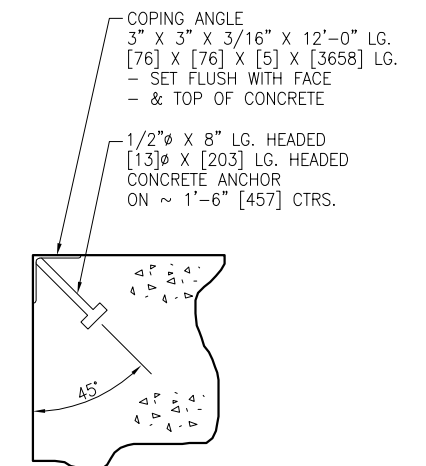
SECTION "E-E"
(TRUCK SCALE ANCHOR ROD)
TYP. AT EACH LOAD CELL
4 REQ'D. TOTAL
SCALED 3X



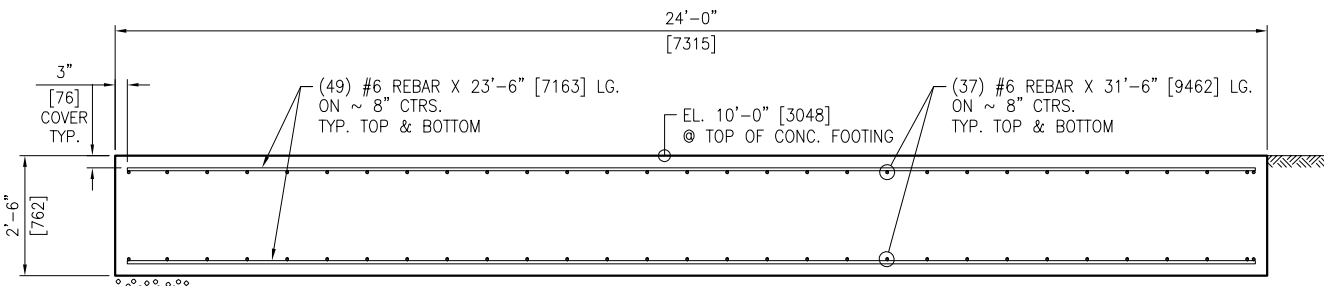
DETAIL "2"
(SILO LEG ANCHOR ROD PATTERN)
TYP. 4 PLCS. FOR EA. 12'Ø 100T SILO
4 REQ'D. TOTAL
SCALED 3X



SECTION "F-F"
TYP. 4 PLCS. FOR EA. 12'Ø 100T SILO
TYP. 4 PLCS.
SCALED 3X



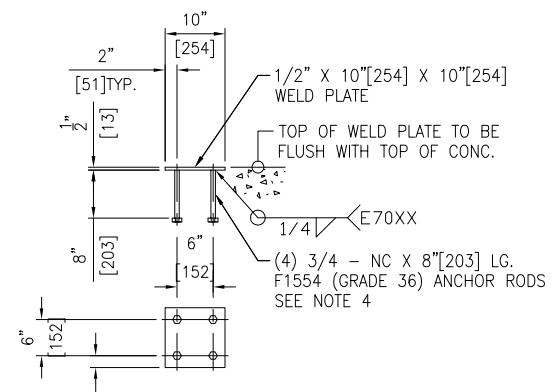
DETAIL "3"
SCALED 8X



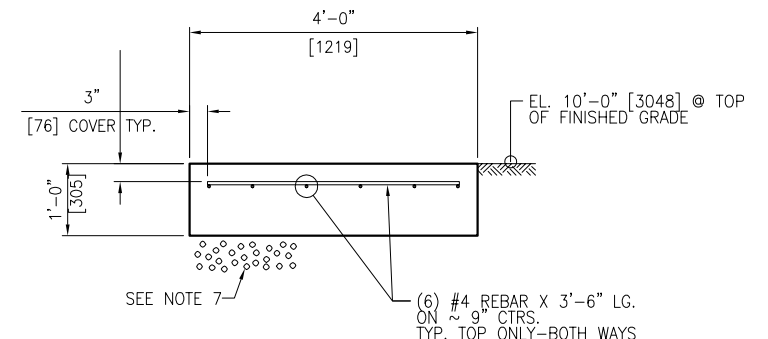
MIN. LAP SPLICE:
#6 REBAR = 36" [914] TOP
#6 REBAR = 28" [711] BOTTOM

SECTION "B-B"
32'-0" X 24'-0" X 30"
[9754] X [7315] X [762]
TYP. 1 PLC.
SCALED 2X

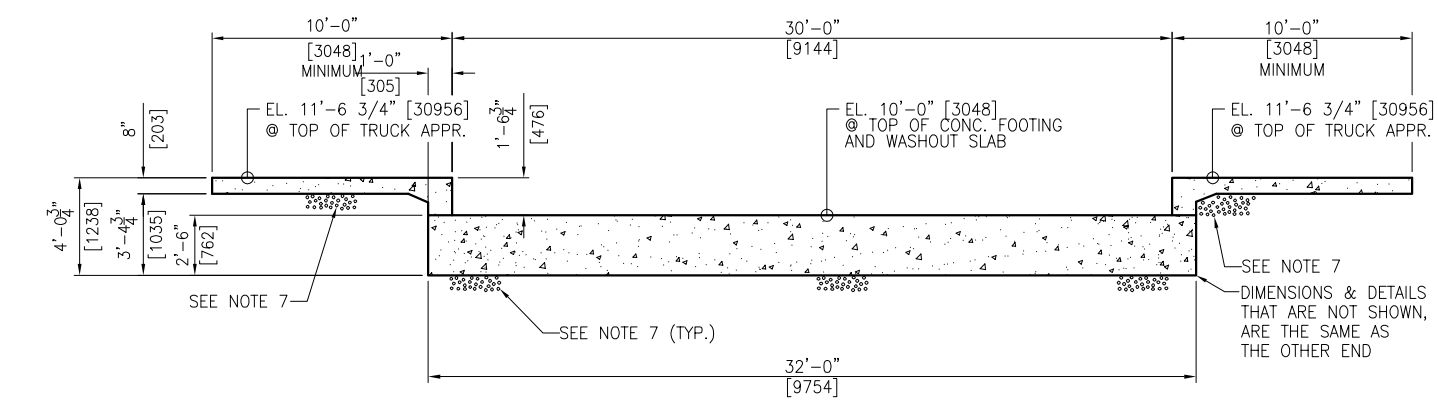
SEE NOTE 7



DETAIL "4"
2 REQ'D
SCALED 3X

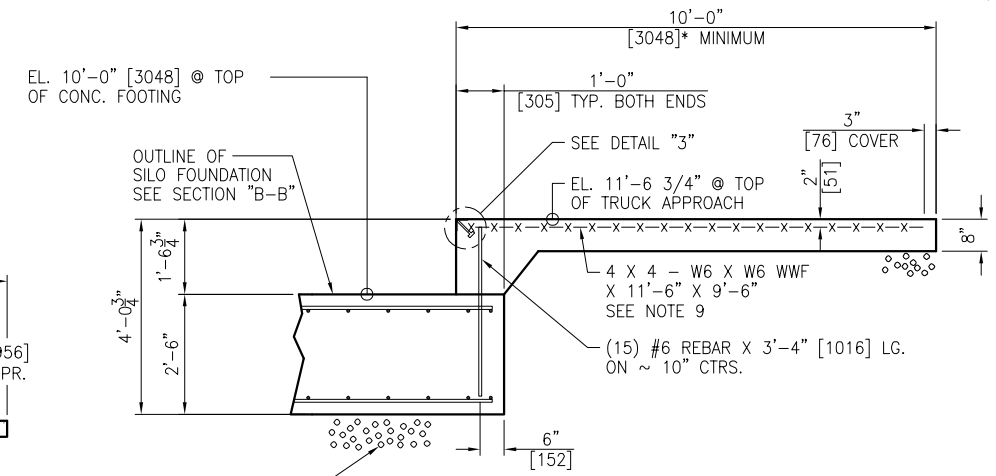


SECTION "D-D"
4'-0" X 4'-0" X 12"
TYP. 1 PLC.
SCALED 3X



ELEVATION "A-A"
TYP. 1 PLC.

SEE NOTE 7
DIMENSIONS & DETAILS THAT ARE NOT SHOWN, ARE THE SAME AS THE OTHER END



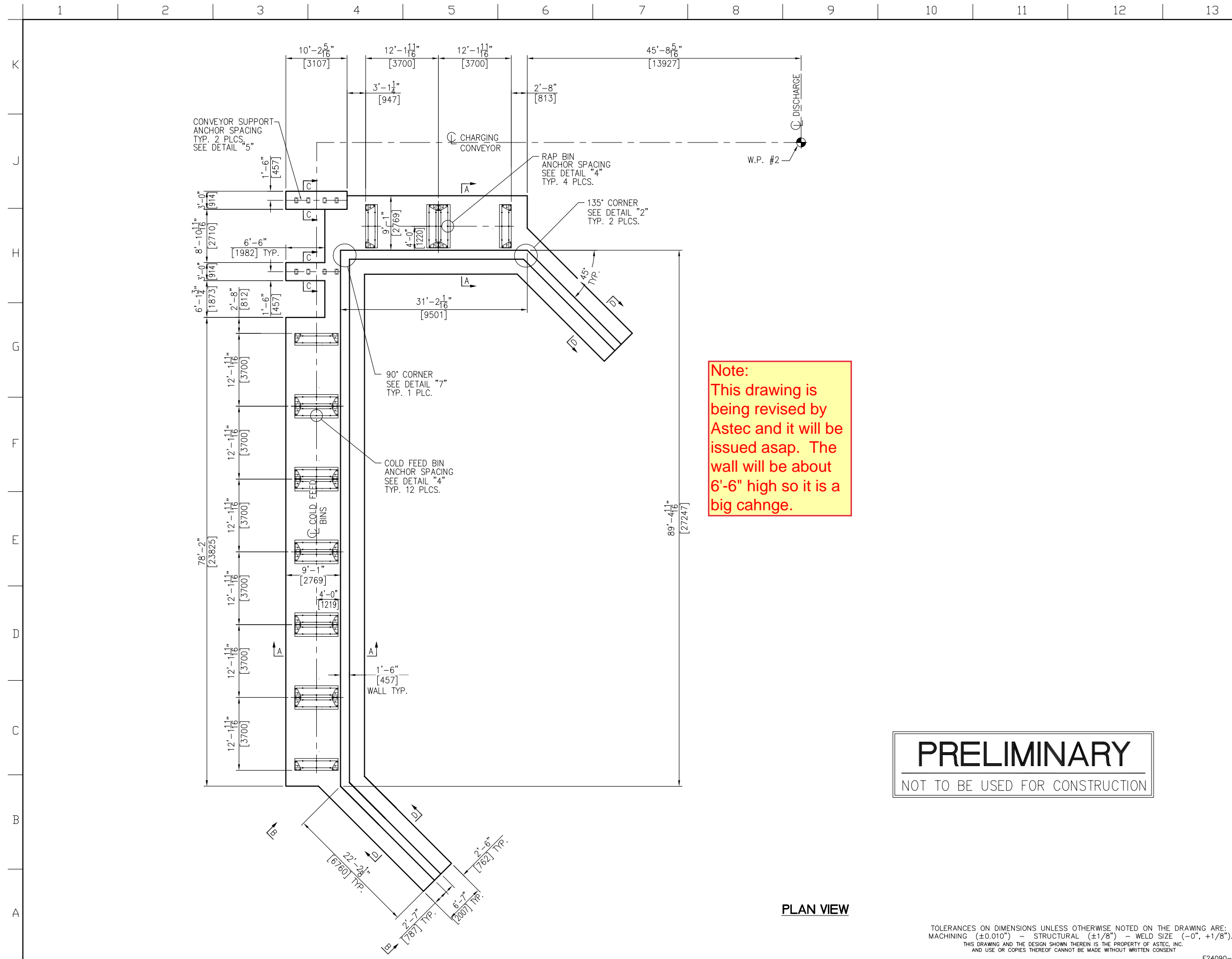
SECTION "C-C"
TRUCK SCALE ENDS
TYP. 2 PLCS.
SCALED 2X

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.

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

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

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 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 F24-090-02	REV	
SIMILAR TO DWG. NO. F24-090-01				



Note:
 This drawing is being revised by Astec and it will be issued asap. The wall will be about 6'-6" high so it is a big cahnge.

PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION

PLAN VIEW

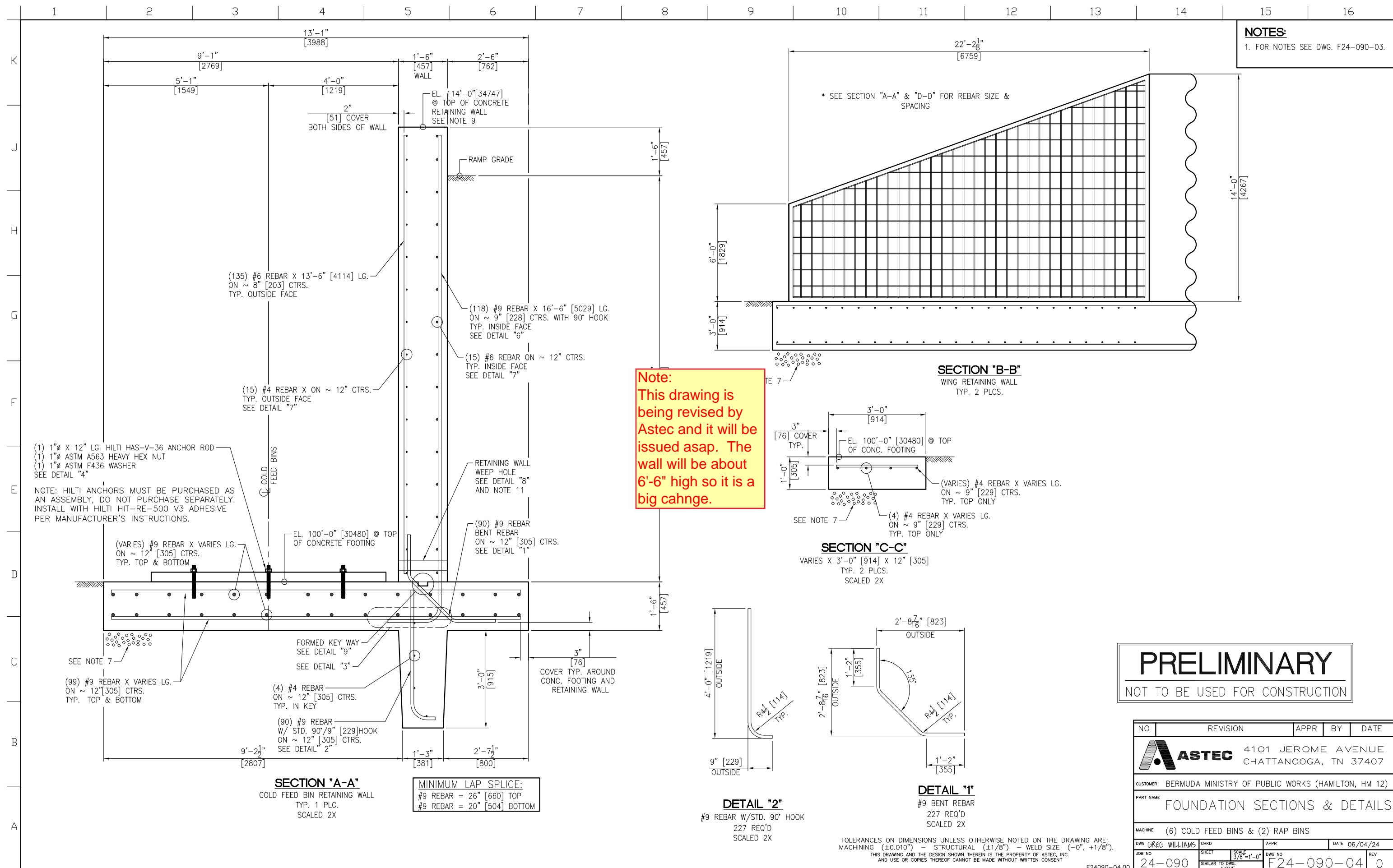
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
 MACHINING (+0.010") - STRUCTURAL (±1/8") - WELD SIZE (-0", +1/8").
 THIS DRAWING AND THE DESIGN SHOWN THEREIN IS THE PROPERTY OF ASTEC, INC.
 AND USE OR COPIES THEREOF CANNOT BE MADE WITHOUT WRITTEN CONSENT.

NOTES:

- FOUNDATIONS SHOWN HEREIN ARE DESIGNED FOR A MINIMUM SOIL BEARING PRESSURE OF 2,000 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 100'-0"[30480] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR DRAG BASE 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. F24-090-04 & 05.
- 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

NO	REVISION	APPR	BY	DATE
ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, HM 12)				
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 F24-090-03	REV 0	



NOTES:
1. FOR NOTES SEE DWG. F24-090-03.

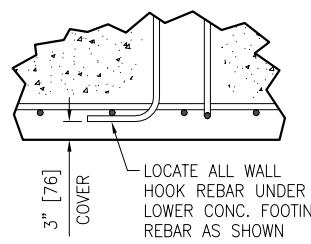
Note:
This drawing is being revised by Astec and it will be issued asap. The wall will be about 6'-6" high so it is a big cahnge.

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

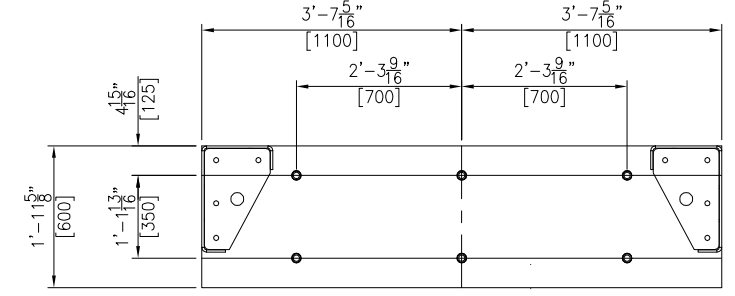
NO	REVISION	APPR	BY	DATE
CUSTOMER		BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, HM 12)		
PART NAME		FOUNDATION SECTIONS & DETAILS		
MACHINE		(6) COLD FEED BINS & (2) RAP BINS		
DWN	GREG WILLIAMS	CHKD	APPR	DATE 06/04/24
JOB NO	24-090	SHEET	3/8" = 1'-0"	DWG NO F24-090-04
SIMILAR TO DWG.		REV 0		

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.

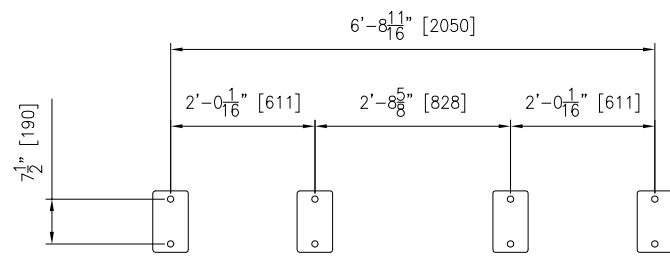
NOTES:
1. FOR NOTES SEE DWG. F24-090-03.



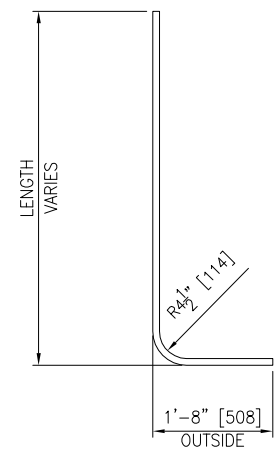
DETAIL "3"
SCALED 2X



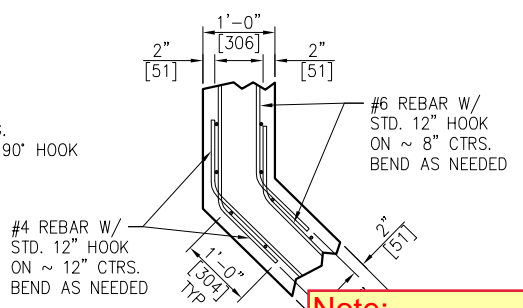
DETAIL "4"
BIN ANCHOR SPACING
TYP. 12 PLCS. PER BIN
96 REQ'D TOTAL
SCALED 2X



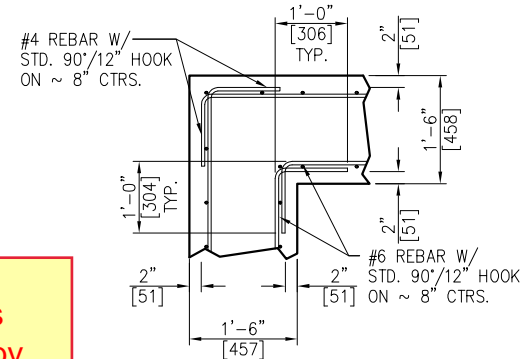
DETAIL "5"
SCALED 2X



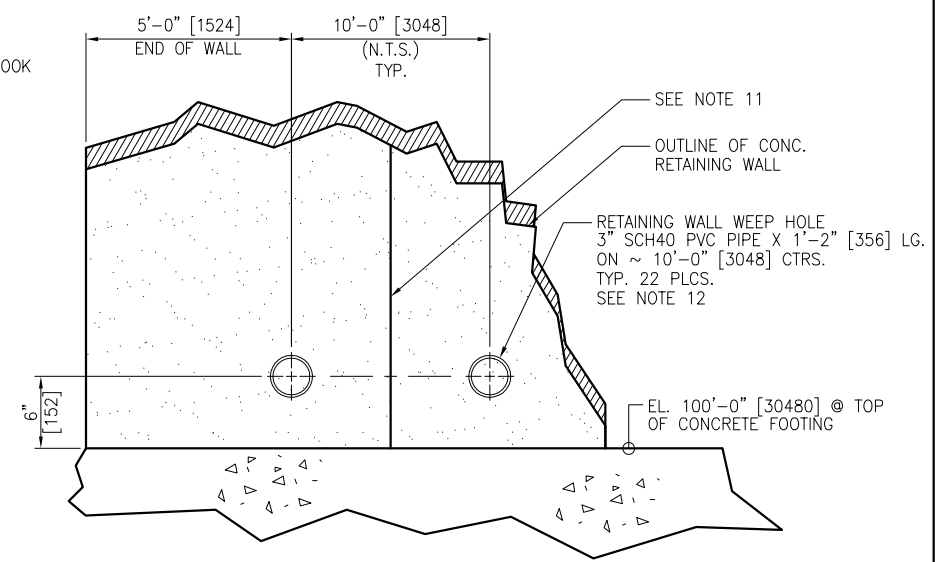
DETAIL "6"
#9 REBAR W/STD. 90° HOOK
214 REQ'D
SCALED 2X



DETAIL "7"
TYP. WALL DETAIL @ C
TYP. 2 PLCS.
SCALED 2X

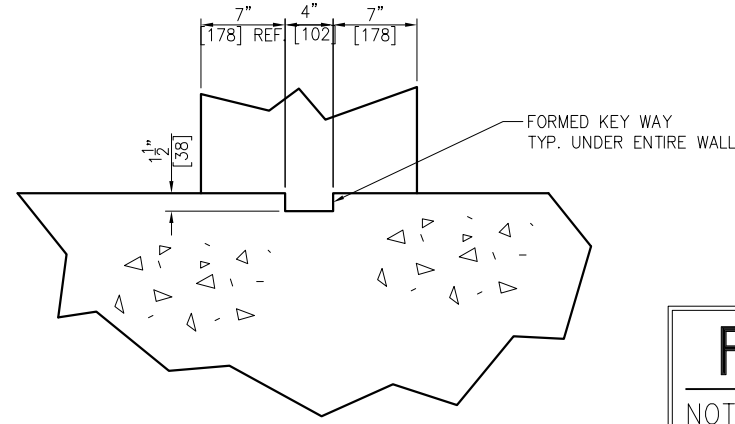


DETAIL "2"
TYP. WALL DETAIL @ 90° CORNER
TYP. 1 PLC.
SCALED 2X

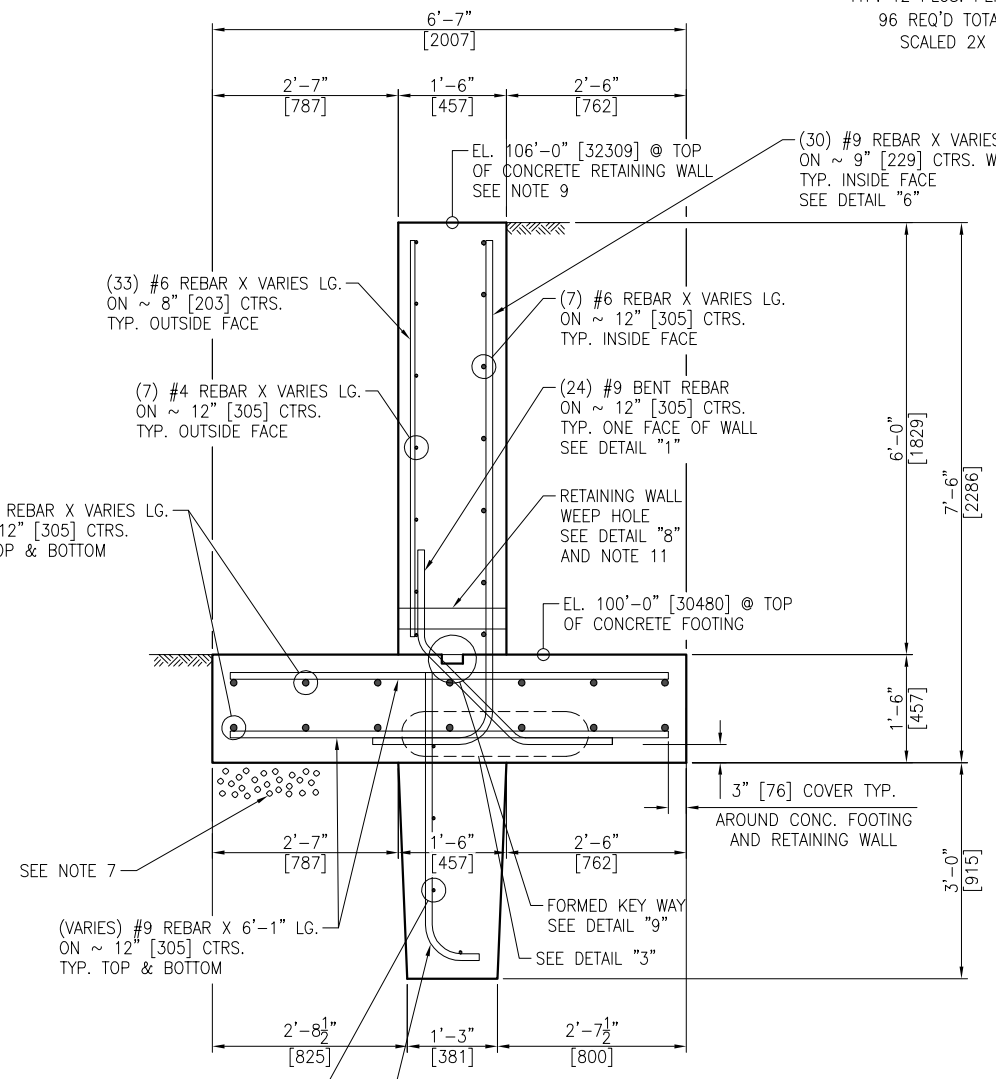


DETAIL "8"
COLD FEED BIN RETAINING WALL WEEP HOLE
TYP. 1 PLCS.
SCALED 4X

Note:
This drawing is being revised by Astec and it will be issued asap. The wall will be about 6'-6" high so it is a big cahnge.



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



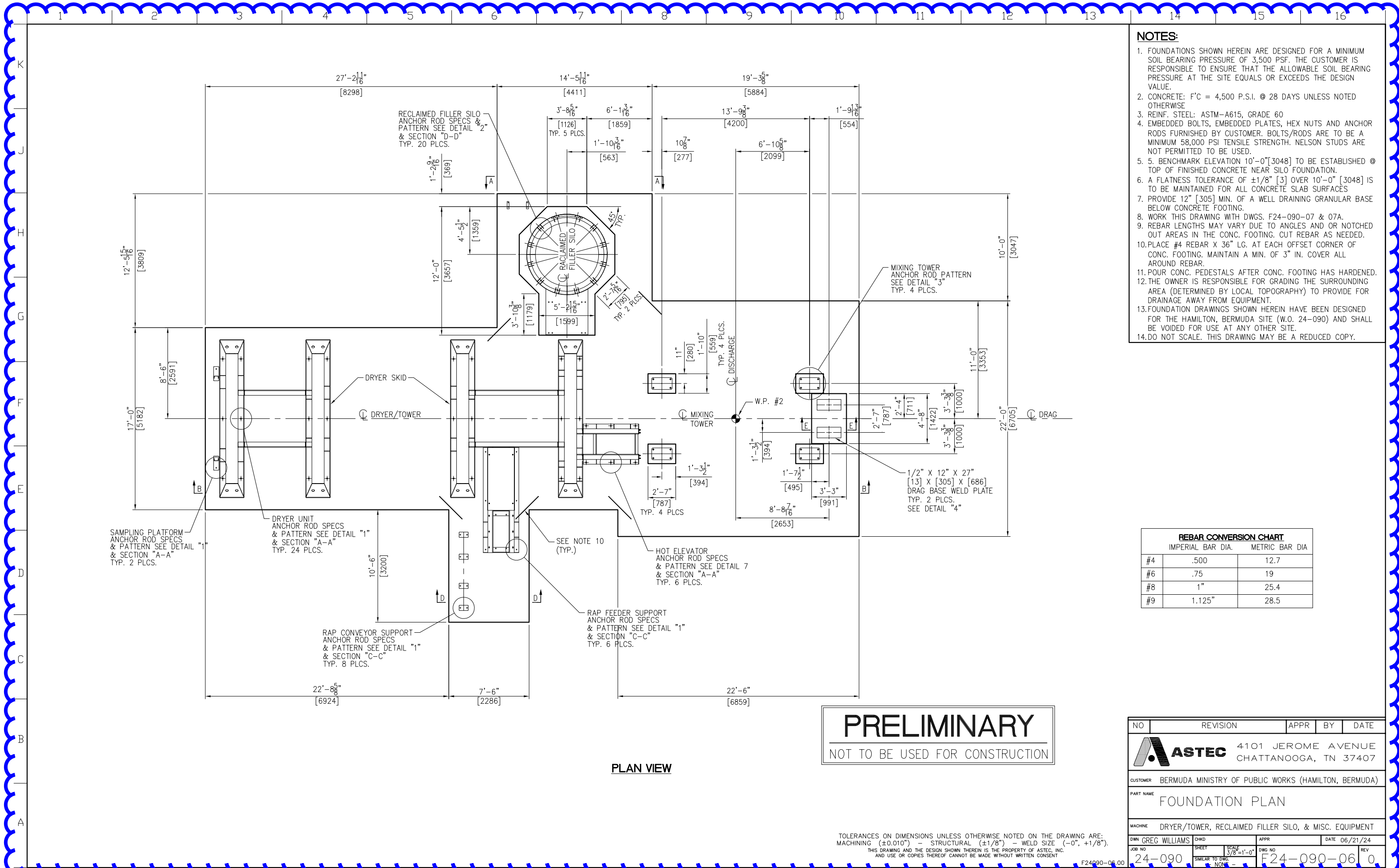
SECTION "D-D"
WING WALL
TYP. 2 PLCS.
SCALED 2X

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

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, HM 12)				
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 F24-090-05	REV 0	
SIMILAR TO DWG. - NONE -				



- 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 = 4,500 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. F24-090-07 & 07A.
 - 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.
 - 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").
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

ASTEC 4101 JEROME AVENUE
CHATTANOOGA, TN 37407

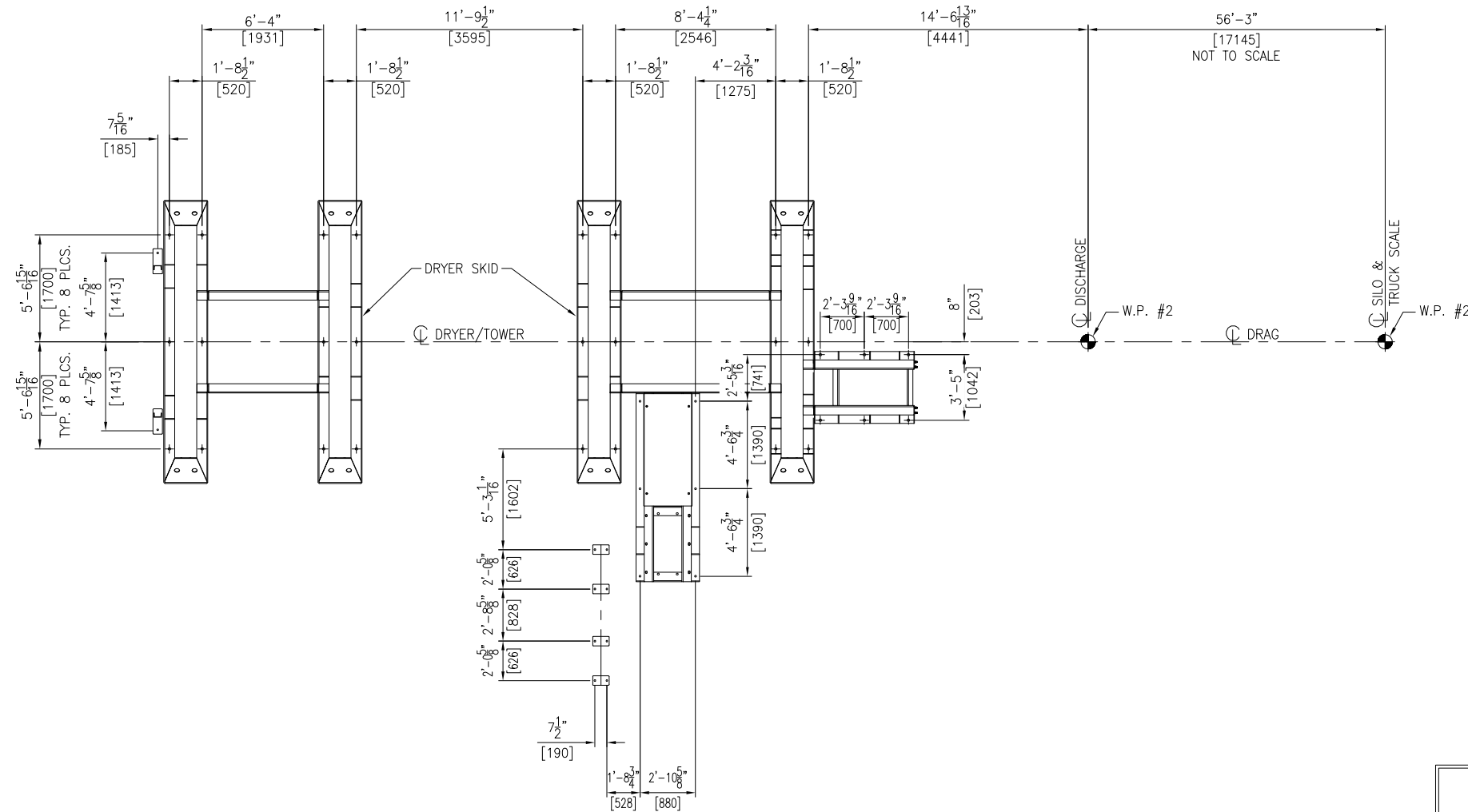
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)

PART NAME FOUNDATION PLAN

MACHINE DRYER/TOWER, RECLAIMED FILLER SILO, & MISC. EQUIPMENT

DWN GREG WILLIAMS	CHKD	APPR	DATE 06/21/24
JOB NO 24-090	SHEET 3/8=1'-0"	DWG NO F24-090-06	REV 0

NOTES:
1. FOR NOTES SEE DWG. F24-090-06




PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

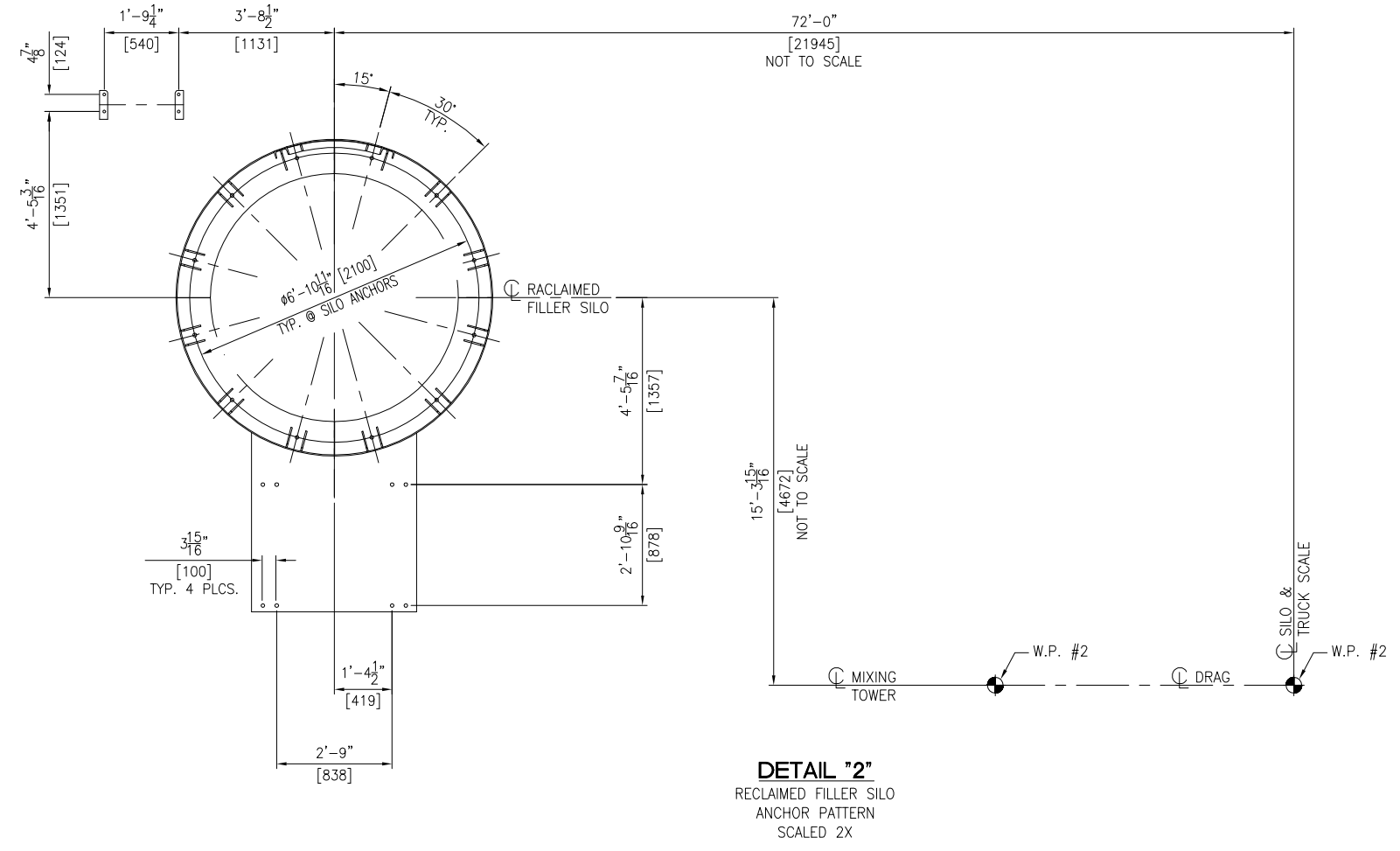
DETAIL "1"
DRYER/TOWER
ANCHOR PATTERN

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.

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 ANCHOR PATTERN PLAN				
MACHINE DRYER/TOWER				
DWN	GREG WILLIAMS	CHKD		APPR
JOB NO	24-090	SHEET	3/8"=1'-0"	DWG NO
		SIMILAR TO DWG.	NONE	F24-090-07
				REV 0

NOTES:
1. FOR NOTES SEE DWG. F24-090-06



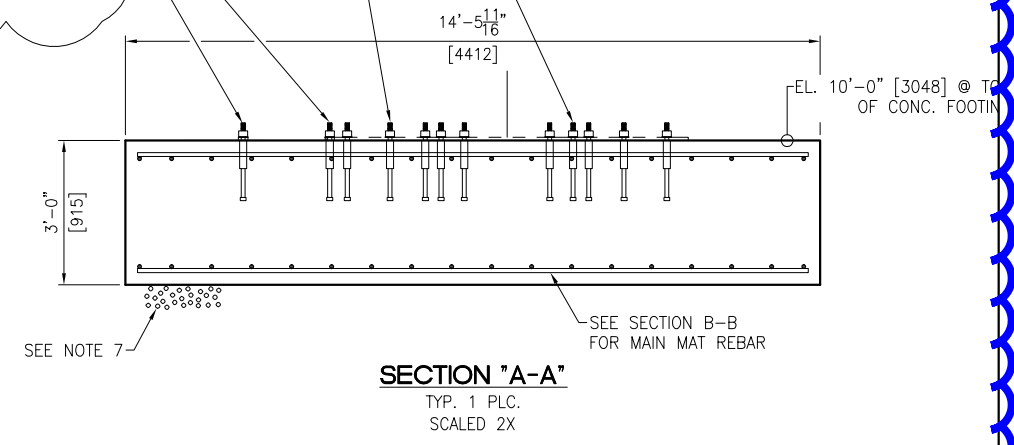
(1) 7/8"Ø X 20" LG. ASTM F1554 (GRADE 36) HEADED ANCHOR WITH 6" THREAD LENGTH
(1) 7/8"Ø ASTM A563 HEAVY HEX NUT
(1) 7/8"Ø ASTM F436 WASHER

(8) PLACES FOR RAP CONVEYOR SUPPORT.
(6) PLACES FOR RAP FEEDER SUPPORT.
EMBED HEADED ANCHOR WITH WILSON SLEEVE 15" INTO CONCRETE FOOTING. INSTALL WILSON SLEEVE PER MANUFACTURER'S INSTRUCTIONS.

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


(8) PLACES FOR RAP CONVEYOR SUPPORT.
(6) PLACES FOR RAP FEEDER SUPPORT.
EMBED HEADED ANCHOR WITH WILSON SLEEVE 15" INTO CONCRETE FOOTING. INSTALL WILSON SLEEVE PER MANUFACTURER'S INSTRUCTIONS.

FIND OUT ANCHOR SPECS FOR SILO AND FOR LADDER



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
 ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME ANCHOR PATTERN PLAN				
MACHINE RECLAIMED FILLER SILO				
DWN	GREG WILLIAMS	CHKD	APPR	DATE 06/21/24
JOB NO	24-090	SHEET	SCALE 3/8"=1'-0"	DWG NO F24-090-08
		SIMILAR TO DWG.	NONE	REV 0

NOTES:
1. FOR NOTES SEE DWG. F24-090-06

- (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

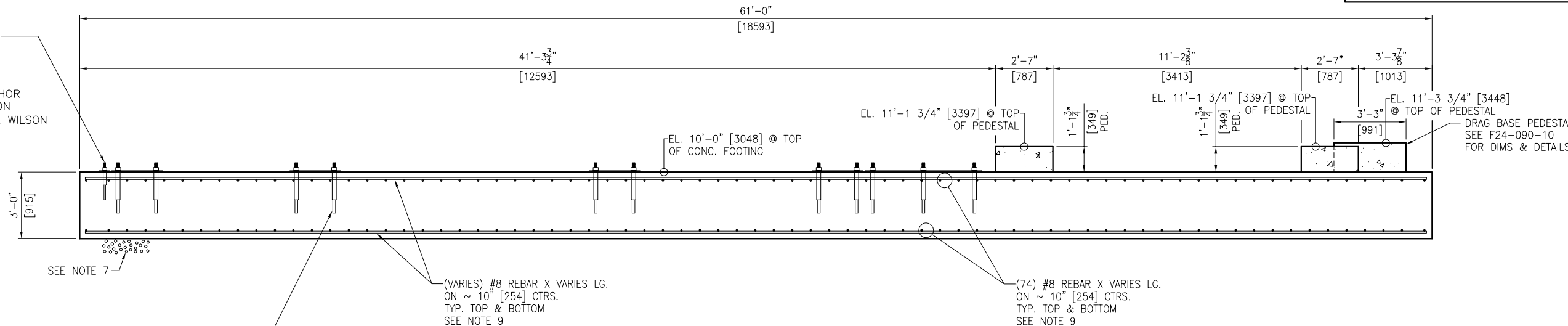
(2) PLACES FOR SAMPLING PLATFORM. 1 ANCHOR PER LEG. EMBED HEADED ANCHOR WITH WILSON SLEEVE 15" INTO CONCRETE FOOTING. INSTALL WILSON SLEEVE PER MANUFACTURER'S INSTRUCTIONS.

- (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.

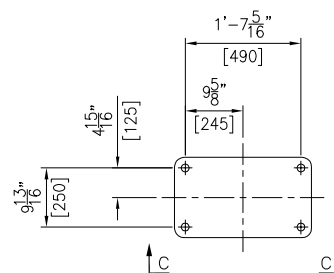
(VARIES) #8 REBAR X VARIES LG.
ON ~ 10" [254] CTRS.
TYP. TOP & BOTTOM
SEE NOTE 9

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



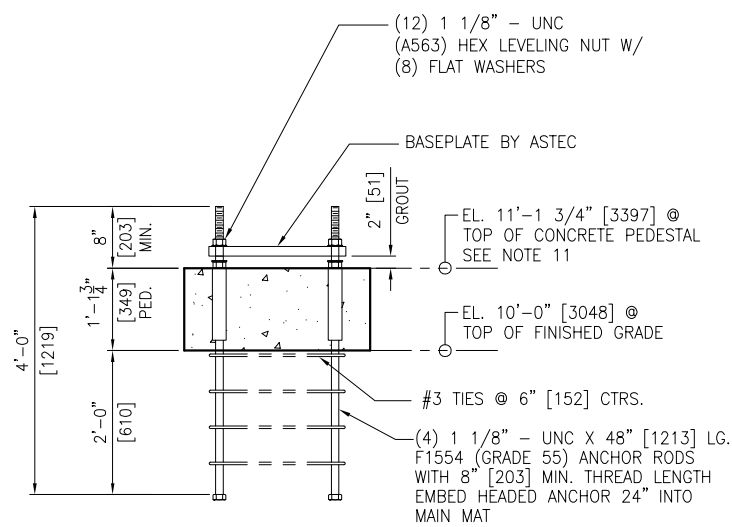
SECTION "B-B"

TYP. 1 PLC.
SCALED 1X



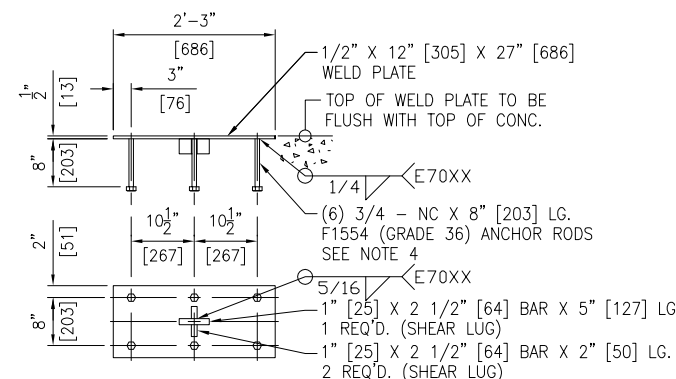
DETAIL "3"

TOWER LEG ANCHOR ROD PATTERN
TYP. 4 PLCS.
SCALED 2X



SECTION "C-C"

TYP. 4 PLCS.
SCALED 2X



DETAIL "4"

2 REQ'D
SCALED 2X

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

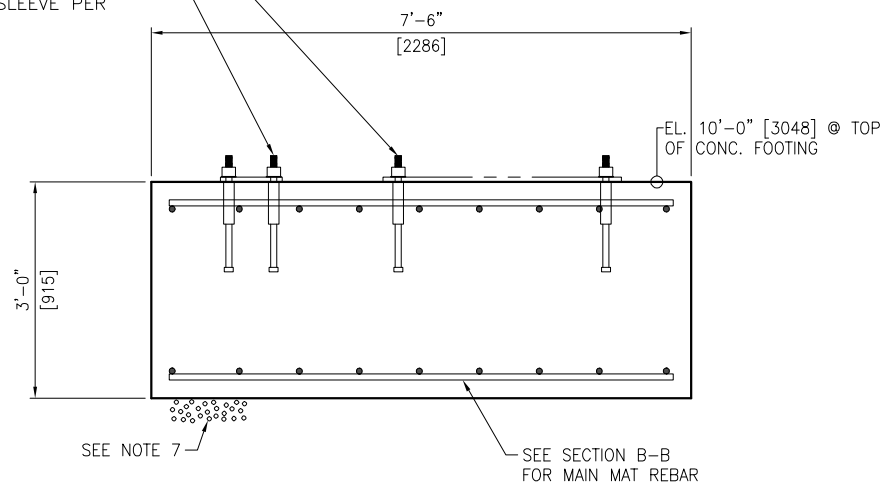
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
MACHINING (+0.010") - STRUCTURAL (±1/8") - WELD SIZE (-0", +1/8").
THIS DRAWING AND THE DESIGN SHOWN THEREIN IS THE PROPERTY OF ASTEC, INC.
AND USE OR COPIES THEREOF CANNOT BE MADE WITHOUT WRITTEN CONSENT.

F24090-09.00

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				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/21/24	
JOB NO 24-090	SHEET 3/8=1'-0"	DWG NO F24-090-09	REV 0	
SIMILAR TO DWG. NONE				

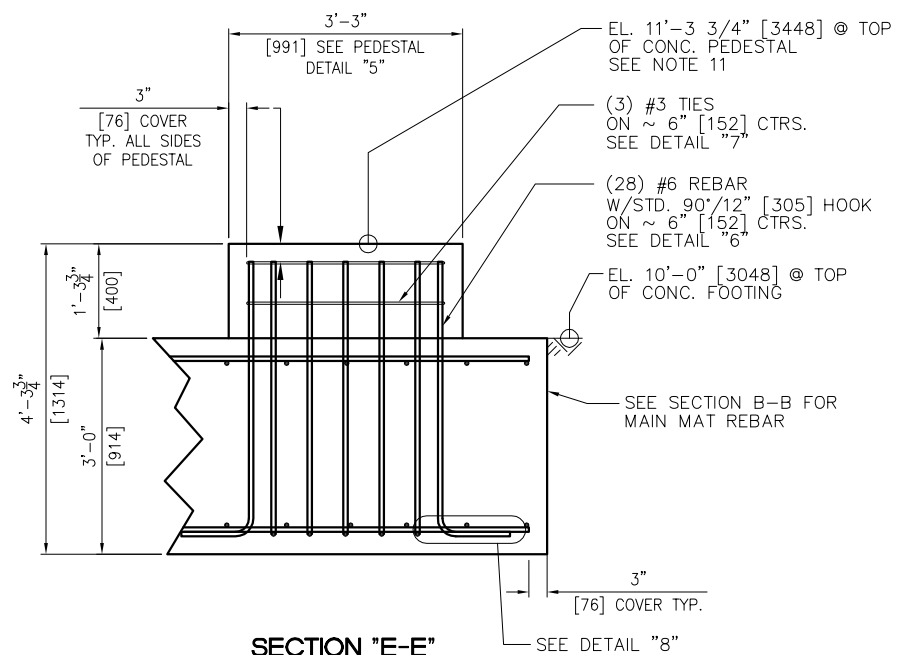
- (1) 7/8" X 20" LG. ASTM F1554 (GRADE 36) HEADED ANCHOR WITH 6" THREAD LENGTH
- (1) 7/8" ASTM A563 HEAVY HEX NUT
- (1) 7/8" ASTM F436 WASHER

- (8) PLACES FOR RAP CONVEYOR SUPPORT.
- (6) PLACES FOR RAP FEEDER SUPPORT.
- EMBED HEADED ANCHOR WITH WILSON SLEEVE 15" INTO CONCRETE FOOTING. INSTALL WILSON SLEEVE PER MANUFACTURER'S INSTRUCTIONS.



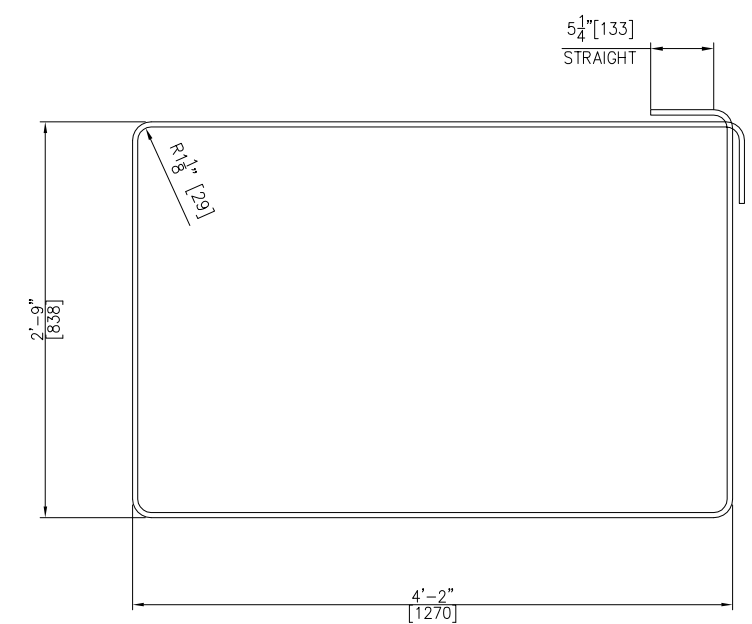
SECTION "D-D"

TYP. 1 PLC.
SCALED 2X



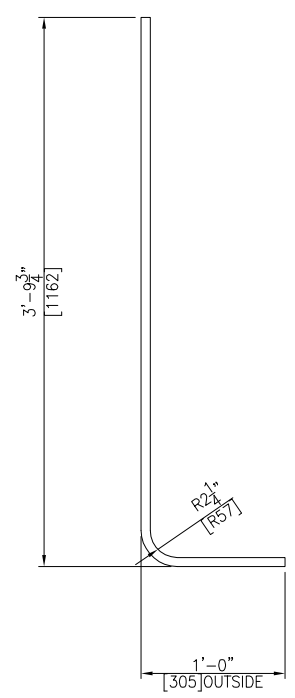
SECTION "E-E"

TYP. 1 PLC.
SCALED 2X



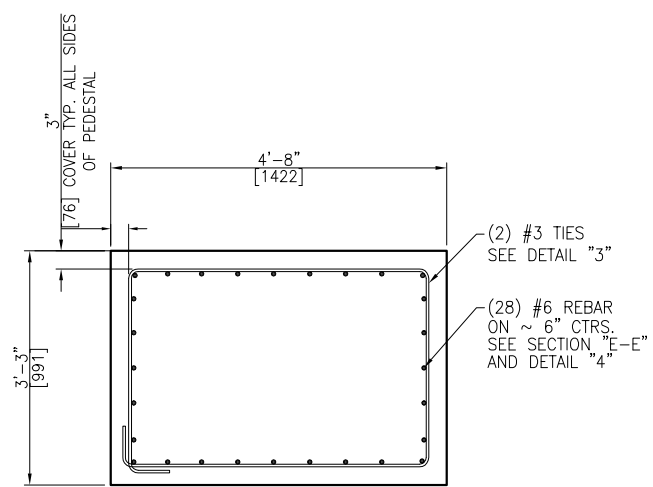
DETAIL "5"

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



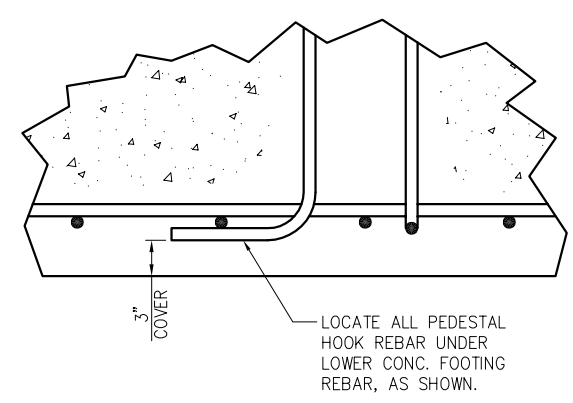
DETAIL "6"

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



PEDESTAL DETAIL "7"

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



DETAIL "8"

SCALED 4X

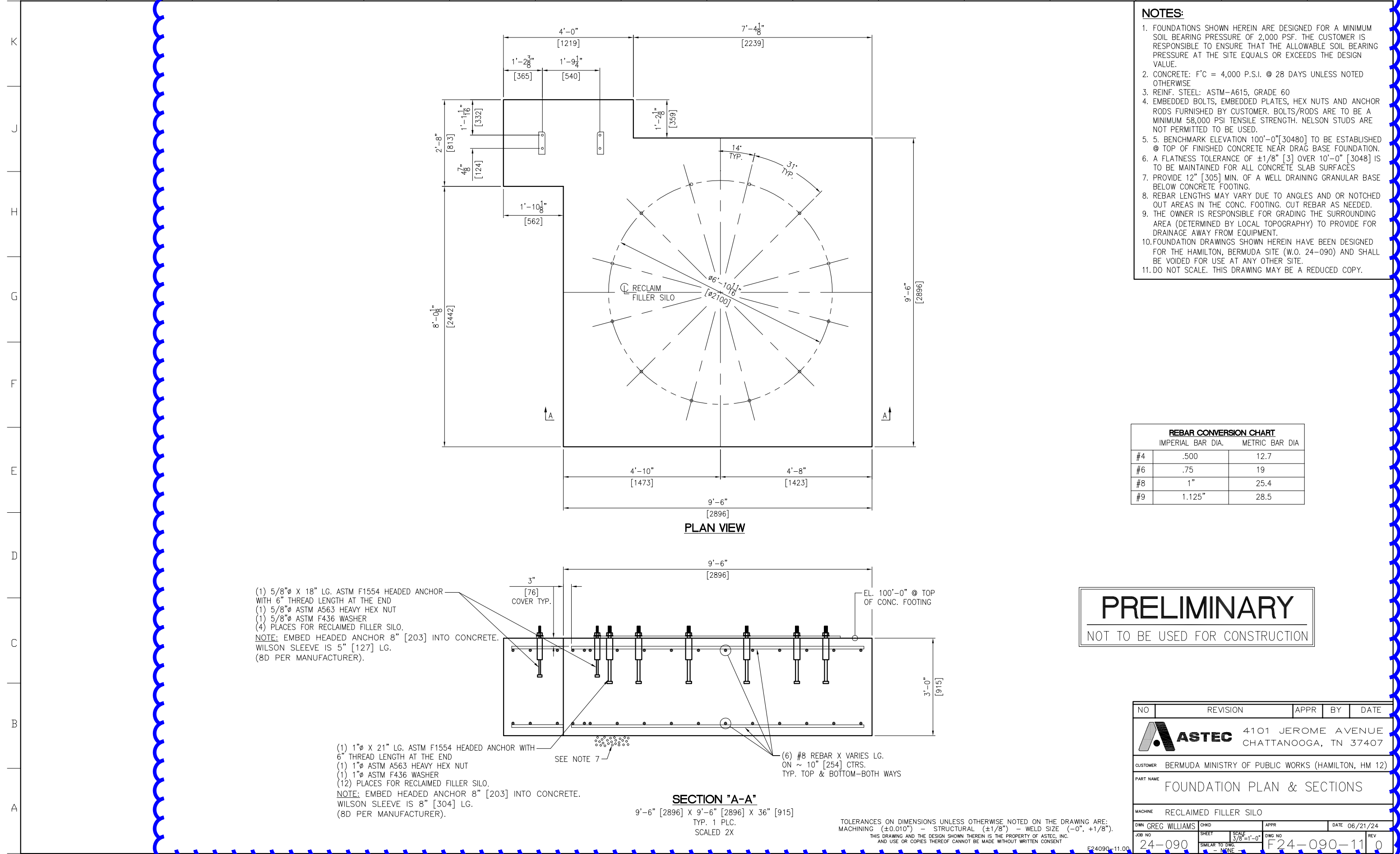
NOTES:

1. FOR NOTES SEE DWG. F24-090-06

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				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/21/24	
JOB NO 24-090	SHEET 3/8=1'-0"	DWG NO F24-090-10	REV	
SIMILAR TO DWG. NONE				

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.

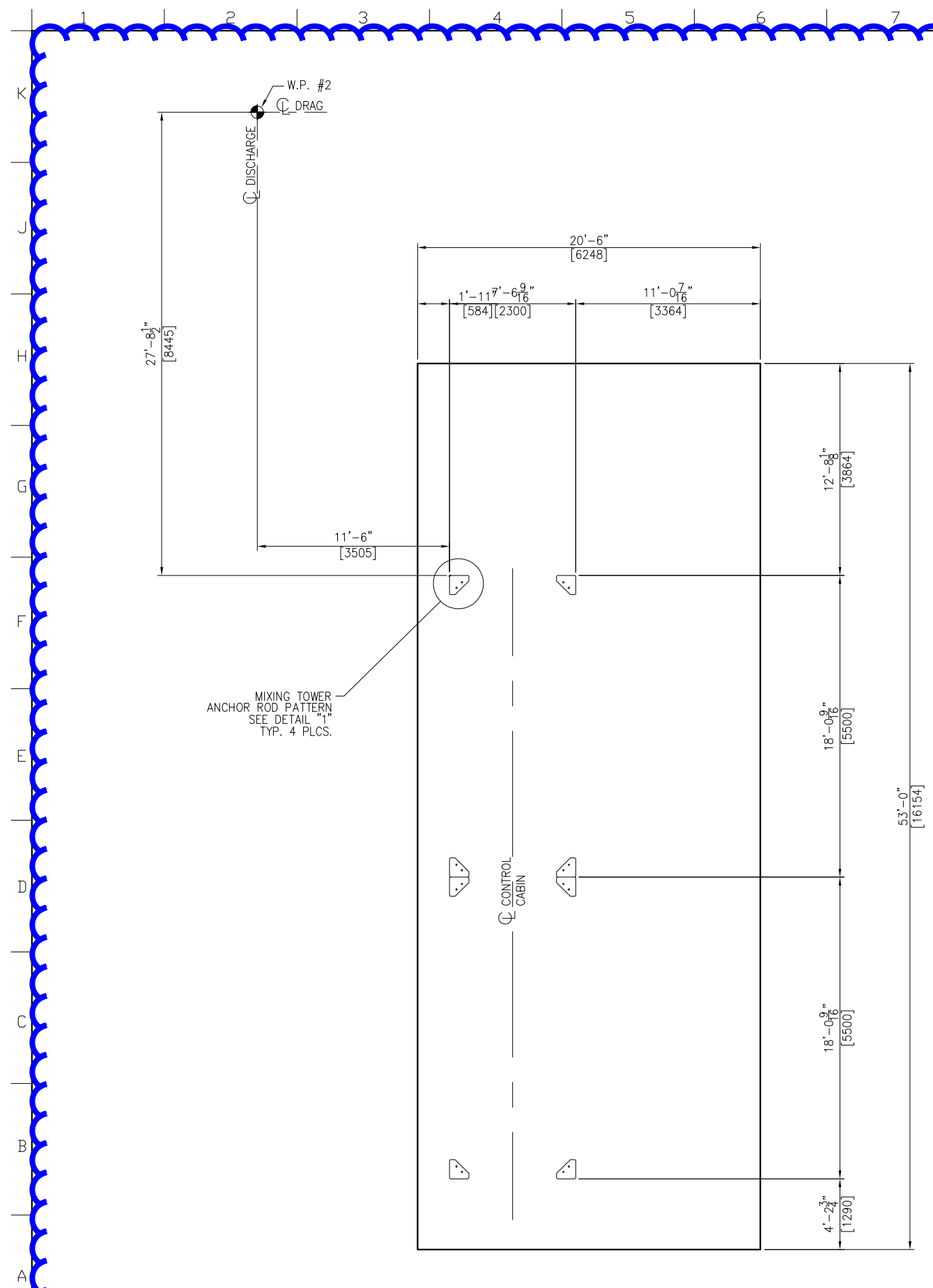


- NOTES:**
- FOUNDATIONS SHOWN HEREIN ARE DESIGNED FOR A MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF. THE CUSTOMER IS RESPONSIBLE TO ENSURE THAT THE ALLOWABLE SOIL BEARING PRESSURE AT THE SITE EQUALS OR EXCEEDS THE DESIGN VALUE.
 - CONCRETE: F'C = 4,000 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE
 - REINF. 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 100'-0" [30480] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR DRAG BASE 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.
 - REBAR LENGTHS MAY VARY DUE TO ANGLES AND OR NOTCHED OUT AREAS IN THE CONC. FOOTING. CUT REBAR AS NEEDED.
 - 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.

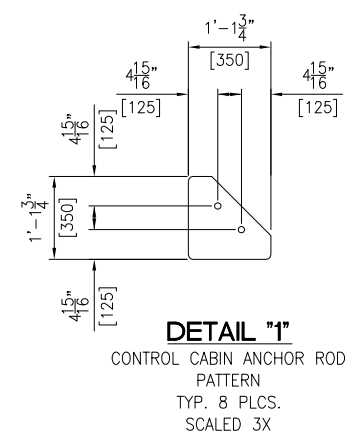
REBAR CONVERSION CHART		
	IMPERIAL BAR DIA.	METRIC BAR DIA
#4	.500	12.7
#6	.75	19
#8	1"	25.4
#9	1.125"	28.5

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

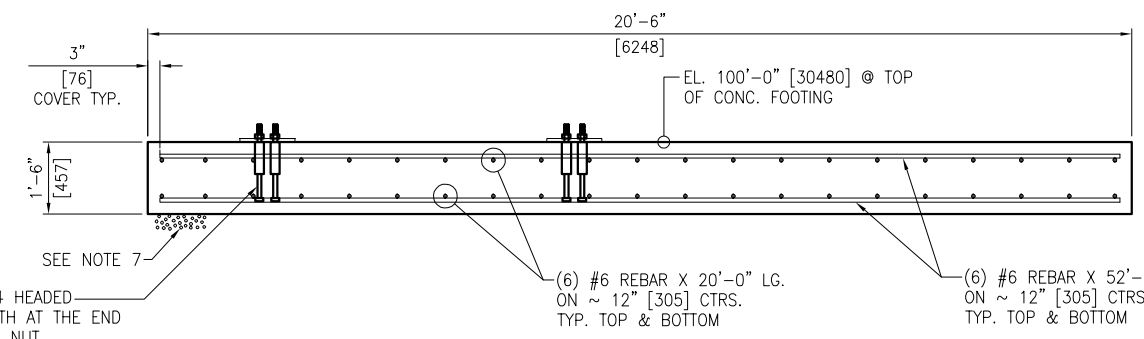
NO	REVISION	APPR	BY	DATE
ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, HM 12)				
PART NAME FOUNDATION PLAN & SECTIONS				
MACHINE RECLAIMED FILLER SILO				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/21/24	
JOB NO 24-090	SHEET 3/8 = 1'-0"	DWG NO F24-090-11	REV 0	



PLAN VIEW



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



- (1) 1"φ X 14" LG. ASTM F1554 HEADED ANCHOR WITH 6" THREAD LENGTH AT THE END
 - (1) 1"φ ASTM A563 HEAVY HEX NUT
 - (1) 1"φ 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

- NOTES:**
1. FOUNDATIONS SHOWN HEREIN ARE DESIGNED FOR A MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF. THE CUSTOMER IS RESPONSIBLE TO ENSURE THAT THE ALLOWABLE SOIL BEARING PRESSURE AT THE SITE EQUALS OR EXCEEDS THE DESIGN VALUE.
 2. CONCRETE: F'C = 4,000 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE
 3. REINF. STEEL: ASTM-A615, GRADE 60
 4. 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.
 5. BENCHMARK ELEVATION 100'-0" [30480] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR DRAG BASE FOUNDATION.
 6. A FLATNESS TOLERANCE OF ±1/8" [3] OVER 10'-0" [3048] IS TO BE MAINTAINED FOR ALL CONCRETE SLAB SURFACES
 7. PROVIDE 12" [305] MIN. OF A WELL DRAINING GRANULAR BASE BELOW CONCRETE FOOTING.
 8. THE OWNER IS RESPONSIBLE FOR GRADING THE SURROUNDING AREA (DETERMINED BY LOCAL TOPOGRAPHY) TO PROVIDE FOR DRAINAGE AWAY FROM EQUIPMENT.
 9. 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.
 10. 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

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