PROJECT DIRECTORY

CRUZ BAY VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

PREPARED BY: Jaredian Design Group — Architects, Engineers and Construction Managers

PREPARED FOR:

GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS

OFFICE OF DISASTER RECOVERY

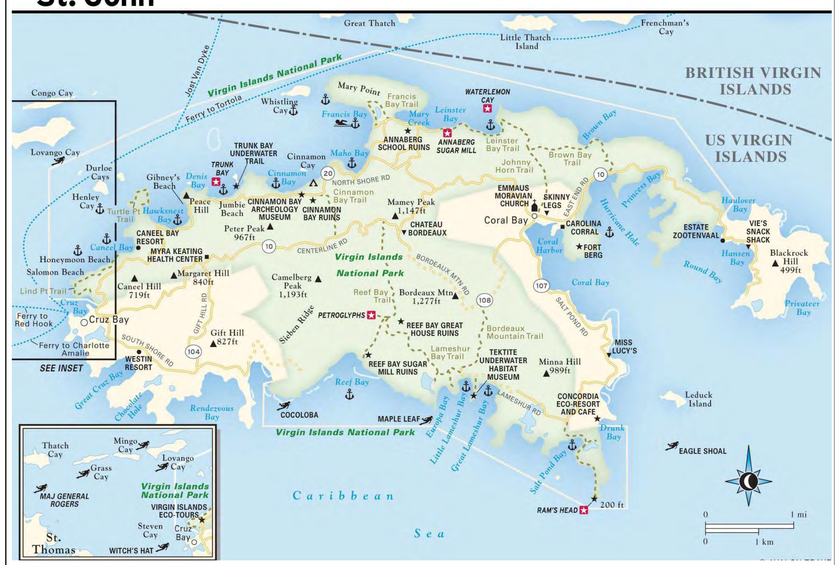
V.I. FIRE AND EMERGENCY MEDICAL SERVICES

PROJECT NO.: 23-005.C

ISSUED FOR: FCD (FEDERAL CONSISTENCY DETERMINATION) PACKAGE

ISSUE DATE: 04.22.2025

VICINITY MAP



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ARCHITECTURAL SYMBOLS:

DIRECTION OF NORTH

REFERENCE:
TO ENLARGED PLAN,
DETAIL OR SECTION
4
A8.0
DETAIL NUMBER
DRAWING NUMBER

REFERENCE:
TO WALL TYPE
W2
WALL TYPE NUMBER

REFERENCE:
TO PARTIAL
SECTION
4
A8.0
SECTION NUMBER
DRAWING NUMBER

REFERENCE:
TO EXTERIOR
ELEVATION
A2.0
1
ELEVATION NUMBER
DRAWING NUMBER

REFERENCE:
TO WINDOW
SCHEDULE
A
NEW WINDOW LETTER

REFERENCE:
TO INTERIOR
ELEVATION
10
8
A5.0
6
7
ELEVATION NUMBER
ELEVATION NUMBER
DRAWING NUMBER

REFERENCE:
TO DOOR
SCHEDULE
102
NEW DOOR NUMBER

NEW ELEVATION TARGET
TOP OF
MASONRY
625.0'

MATCH LINE
A
A-2.0
MATCH LINE LETTER
SHEET NUMBER

1
X-X
TITLE
SCALE: 1"=10'-0"
DRAWING TITLE NUMBER
SHEET NUMBER

ADDENDUM NUMBER
1

CHANGE ORDER NUMBER
1

CLARIFICATION NUMBER
1

PROJECT RECORD NUMBER
1

MATERIALS LEGEND:

IN SECTION:
- RIGID INSULATION
- BATT INSULATION
- EARTH / COMPACTED FILL
- COMPACTED GRAVEL FILL
- CAST-IN-PLACE OR PRECAST CONCRETE
- CONCRETE MASONRY UNIT
- PLASTER
- STEEL
- FINISH WOOD
- UNCUT WOOD
- SAWCUT WOOD/ BLOCKING/SHIM
- PLYWOOD

IN ELEVATION:
- PLASTER / CONCRETE

ARCHITECTURAL ABBREVIATIONS:

ACT.	ACOUSTIC CEILING TILE
AES.	ARCHITECTURALLY EXPOSED STEEL
A.F.F.	ABOVE FINISH FLOOR
B.T.W.	BOTTOM OF WALL
BLDG.	BUILDING
CONC.	CONCRETE
CMU.	CONCRETE MASONRY UNIT
CWB.	CEMENT WALL BOARD
DIA.	DIAMETER
EA.	EACH
EL.	ELEVATION
ES.	EXPOSED STRUCTURE
EQ.	EQUAL
EXIST.	EXISTING
F.F.	FINISH FLOOR
FIN.	FINISH
FLG.	FLOORING
FTG.	FOOTING
GALV.	GALVANIZED
GWB.	GYPSUM WALL BOARD
GYP.	GYPSUM
HOR.	HORIZONTAL
MTL.	METAL
MO.	MASONRY OPENING
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PLYW.	PLYWOOD
PNL.	PANEL
PNT.	PAINT
R.W.L.	RAIN WATER LEADER
PTD.	PAINTED
T.O.W.	TOP OF WALL
T.S.	TUBULAR STEEL
U.N.O.	UNLESS NOTED OTHERWISE
VBC.	VINYL BASECOVE
VCT.	VINYL COMPOSITION TILE
WD.	WOOD

LIFE SAFETY

PROJECT DATA

PROJECT NAME:

OWNER:

LOCATION:

JURISDICTION:

ARCHITECT:

APPLICABLE CODES

BUILDING: INTERNATIONAL BUILDING CODE 2021

FIRE PROTECTION: INTERNATIONAL FIRE CODE 2021

MECHANICAL: INTERNATIONAL MECHANICAL CODE 2021

ELECTRICAL: INTERNATIONAL ELECTRICAL CODE 2021

PLUMBING: INTERNATIONAL PLUMBING CODE 2021

ACCESSIBILITY: INTERNATIONAL BUILDING CODE 2021

ENERGY: INTERNATIONAL ENERGY

PROJECT DESCRIPTION

PRIMARY CLASS USE:

ZONING:

CONSTRUCTION TYPE:

NO. OF STORIES: 3

BUILDING HEIGHT: 51'-0"
First to Second
Second to Third
Third

BUILDING AREA: 51'-0"
First to Second
Second to Third
Third

SPRINKLED:

AGE:

TABLE 803.5 (IBC)
INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY

GROUP B: NON-SPRINKLED:
VERTICAL EXITS:
EXIT PASSAGEWAYS:
EXIT ACCESS CORRIDORS:
ROOMS & ENCLOSED SPACES:

FIRE SAFETY LEGEND

REVISIONS

NO.	DATE	REMARKS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE: 04.22.2025
DRAWN BY: Author
CHECKED BY: Checker
APPROVED BY: Approver

PROJECT NO.: 23-005.C
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SHEET NO.: G0.1

DRAWING LIST & LIFE SAFETY

LICENSED ARCHITECT
U.S. & VIRGIN ISLANDS
USA

GENERAL NOTES

1. THE INTENT OF THIS CONTRACT IS TO PROVIDE FOR THE CONSTRUCTION AND COMPLETION OF THE WORK DESCRIBED IN THE DRAWINGS. THE PRECISE DETAILS OF PERFORMING THE WORK ARE NOT STIPULATED EXCEPT AS CONSIDERED ESSENTIAL FOR THE SUCCESSFUL COMPLETION OF THE WORK. FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, TRANSPORTATION, AND SUPPLIES NECESSARY TO COMPLETE THE WORK ACCORDING TO THE CONTRACT.
2. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL PROPOSED SOURCES OF MATERIAL BEFORE DELIVERY TO THE PROJECT SITE TO EXPEDITE MATERIAL INSPECTION AND TESTING IF REQUIRED BY THE ARCHITECT. STORED MATERIAL PREVIOUSLY APPROVED FOR PAYMENT MAY AGAIN BE INSPECTED BY THE ARCHITECT FOR COMPLIANCE WITH APPLICABLE CONTRACT SPECIFICATION PRIOR TO BEING INCORPORATED INTO THE WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF ALL STORED MATERIAL.
4. THE CONTRACTOR SHALL PROVIDE ALL SPACE OUTSIDE THE CONSTRUCTION LIMITS NEEDED FOR STORAGE OF MATERIAL. DO NOT USE PRIVATE PROPERTY FOR STORAGE WITHOUT WRITTEN PERMISSION OF THE OWNER OR LESSEE. FURNISH COPIES OF ALL SUCH AGREEMENTS TO THE ARCHITECT. ANY AREA PROVIDED BY THE OWNER FOR THE STORAGE OF MATERIAL SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF THE CONTRACT.
5. THE EXISTING UTILITIES SHOWN ARE FOR INFORMATION ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS, AND THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THEIR LOCATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS IN THE FIELD WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE PLANS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE.
7. WORK THAT DOES NOT CONFORM TO THE CONTRACT, OR TO PREVAILING INDUSTRY STANDARDS WHERE NO SPECIFIC CONTRACT REQUIREMENTS ARE NOTED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
8. DO NOT DISTURB AREAS OUTSIDE OF THE LIMITS OF THE AREAS SHOWN ON THE PLANS. DISTURBANCES OUTSIDE THESE LIMITS SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND STREET PROTECTION AT ALL TIMES. STREET SHALL NOT BE LEFT IN AN UNSAFE OR MUDDY CONDITION.
10. ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
11. THE ARCHITECT SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO STARTUP OF CONSTRUCTION BY THE CONTRACTOR.
12. DEVIATION OF THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT MAY BE CAUSE THE WORK TO BE REJECTED BY THE ARCHITECT.
13. CONTRACTOR WARRANTS THAT HIS EMPLOYEES, AGENTS, AND SUBCONTRACTORS POSSESS THE EXPERIENCE, KNOWLEDGE AND CHARACTER NECESSARY TO QUALIFY THEM INDIVIDUALLY FOR THE PARTICULAR CONSTRUCTION TECHNIQUES THEY PERFORM IN CONNECTION WITH THE TASKS TO BE PERFORMED UNDER THE CONTRACT. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION BE IN STRICT COMPLIANCE WITH ALL OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND LOCAL HEALTH AND SAFETY CODES.
14. THE CONTRACTOR SHALL CHECK, REVIEW, AND VERIFY ALL PLANS, DIMENSIONS, AND SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS OR ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODE, RULES, AND REGULATIONS SHALL BE REPORTED IN WRITING TO THE ARCHITECT.
15. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITIONS OF THE U.S. VIRGIN ISLANDS BUILDING CODE, THE ACI, AND THE ASTM.
16. THE PREMISES SHALL BE KEPT FROM ACCUMULATION OF WASTE MATERIAL AND DEBRIS, AND AT THE END OF THE JOB THE CONTRACTOR SHALL REMOVE ALL RUBBISH, SURPLUS MATERIAL, AND TOOLS AND LEAVE THE WORK AREA BROOM CLEAN.
17. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND THE VIRGIN ISLANDS CODE.

GENERAL DEMOLITION AND CONSTRUCTION NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND BE FAMILIAR WITH ALL SYSTEMS BEFORE DEMOLITION. ALL DEMOLITION SHALL COMPLY WITH THE RULES & REGULATIONS OF THE FEDERAL, STATE, COUNTRY AND CITY GOVERNMENTS. EXISTING SERVICES SHALL BE MAINTAINED DURING DEMOLITION. ANY SHUTDOWN OF SYSTEMS MUST BE COORDINATED & APPROVED BY THE OWNER. CONTRACTOR SHOULD COORDINATE WORK WITH ALL TRADES & PROVIDE SUPERVISION WHILE WORK IS BEING PERFORMED.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER, ALL MATERIALS TO BE RETAINED BY THE OWNER & DELIVER & STORE SAME WHERE DIRECTED BY THE OWNER. ALL REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR & SHALL BE DISPOSED OF IN A LEGAL MANNER.
3. DO NOT INTERFERE WITH USE OF ADJACENT AREAS. MAINTAIN FREE & SAFE PASSAGE TO & FROM ADJACENT AREAS. PROVIDE, ERECT & MAINTAIN BARRICADES & LIGHTING AS REQUIRED BY APPLICABLE REGULATORY ADVISORY TO PROTECT OCCUPANTS OF THE BUILDING & WORKERS.
4. REMOVE EXISTING ELEMENTS AS INDICATED BY LEGEND. SURFACES OF EXISTING AREAS WHICH HAVE BEEN ALTERED BY DEMOLITION NOT SPECIFICALLY CALLED FOR SHALL BE REPAIRED & FINISHED TO MATCH THE ADJACENT SURFACES. PROTECT ALL EXISTING OR REMAINING SURFACES, FLOORS, WALLS & CEILINGS FROM AREAS OF DEMOLITION & NEW CONSTRUCTION.
5. CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS & NOTIFY THE ARCHITECT OF DISSIMILARITIES BEFORE PROCEEDING WITH DEMOLITION WORK. ALL WORK SHALL BE COORDINATED WITH DRAWINGS FOR NEW CONSTRUCTION.
6. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO DEMOLITION OR CONSTRUCTION IN EXISTING AREAS
7. ERECT & MAINTAIN DUSTPROOF PARTITIONS AS REQUIRED TO PREVENT THE SPREAD OF DUST, FUMES & SMOKE TO OTHER PARTS OF THE BUILDING. MAINTAIN EXIT REQUIREMENTS, COORDINATE EXACT LOCATION WITH OWNER. ON COMPLETION OF WORK, REMOVE TEMPORARY PARTITIONS & REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
8. ARRANGE & PAY FOR DISCONNECTING, REMOVING & CAPPING UTILITY SERVICES WITHIN AREAS OF DEMOLITION. DISCONNECT & STUB-OFF, NOTIFY THE AFFECTED UTILITY COMPANY & OBTAIN APPROVAL BEFORE STARTING THIS WORK.
9. REMOVE FROM THE SITE ALL CONTAMINATED, VERMIN INFESTED OR DANGEROUS MATERIALS ENCOUNTERED & DISPOSE OF BY LEGAL MEANS. DO NOT ENDANGER THE HEALTH OF WORKERS OF THE PUBLIC.
10. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY MATERIAL OR PORTION THEREOF FROM DEMOLISHED MATERIAL BEFORE IT IS DISPOSED OF.
11. ALL PLUMBING (POTABLE, SANITARY, ETC.) REQUIRED FOR OTHER FLOORS ABOVE OR BELOW SHALL NOT BE DISRUPTED OR REMOVED. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL SERVICES PRIOR TO REMOVAL OR DISCONNECTION OF ALL SERVICES (ELECTRICAL, HVAC, PLUMBING, SECURITY & TEL./DATA) FOR ADJOINING OCCUPIED SPACES SHALL BE MAINTAINED. CONTRACTOR TO MAKE MINOR ADJUSTMENTS AS REQUIRED TO MAINTAIN PLUMBING, ELECTRICAL & TEL./DATA TO OCCUPIED AREAS.
12. THE CONTRACTOR SHALL REMOVE & DISCARD ALL PLUMBING FIXTURES. THEY SHALL CAP ALL PIPES TEMPORALLY FOR RE-USE.
13. WHERE EXISTING WALLS ARE INDICATED TO BE REMOVED, PATCH INTERSECTING WALLS TO REMAIN FLUSH TO ACCEPT NEW FINISH.
14. CONTRACTOR SHALL REMOVE & DISCARD ALL DOORS, FRAMES, HARDWARE, ETC. UNLESS SPECIFICALLY NOTED OTHERWISE.
15. CONTRACTOR SHALL USE SELF LEVELING COMPOUND IN AREAS WHERE WALLS OR TILES HAVE BEEN REMOVED OR ALTERED IN ORDER TO MAINTAIN A LEVEL SURFACE THROUGHOUT. THEY MUST ALSO USE IT IN AREAS WHERE A TRANSITION IS NEEDED BETWEEN SURFACES THAT ARE DIFFERENT IN MATERIAL OR HEIGHT.
16. EXISTING WOOD SHUTTERS TO BE REMOVED AND REFURBISHED.
17. CONTRACTOR SHALL REMOVE & REFURBISH ALL JALOUSIE WINDOWS TO THE OUTSIDE OF THE NEW DOUBLE HUNG WINDOWS UNLESS OTHERWISE NOTED.
18. CONTRACTOR SHALL REMOVE ALL SHEATHING FROM EXISTING WALLS AND EXPOSING STUDS. SEE WALL DETAILS ON SHEET A5.0.
19. THE CONTRACTOR SHALL SURVEY THE EXISTING EQUIPMENT & FURNISHINGS & DISCARD ALL EQUIPMENT & FURNISHINGS NOT DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE TO BE SALVAGED.
20. EXISTING BASEBOARD TO BE REMOVED AND DISCARDED.
21. CONTRACTOR SHALL REMOVE ALL EXISTING FLOOR TILES DOWN TO EXISTING FLOOR SLAB. THEY SHALL REPAIR AND PATCH EXISTING FLOOR AS REQUIRED FOR THE INSTALLATION OF NEW FLOOR TILES.
22. CONTRACTOR SHALL REMOVE ALL LOOSE PORTIONS OF EXISTING MASS MASONRY WALL. INSTALL A SCRATCH COAT OF LIME PLASTER PRIOR TO INSTALLATION OF THE FURRED WALL SYSTEM.
23. CONTRACTOR SHALL FOLLOW THE GUIDELINES OUTLINED IN THE LEAD BASED PAINT ABATEMENT SPECIFICATIONS FOR THE FOLLOWING AREAS:
24. CONTRACTOR SHALL FOLLOW GUIDELINES OUTLINED IN THE MOLD REMEDIATION SPECIFICATIONS FOR REMEDIATION OF AREAS IDENTIFIED IN THE DRAWINGS FOR REMOVAL AND REPLACEMENT OF WALL AND CEILING SHEATHING.

REVISIONS

NO.	DATE	REMARKS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

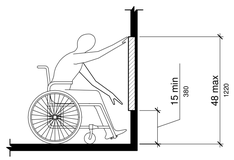
DATE:	04.22.2025
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver

PROJECT NO.: 23-005.C

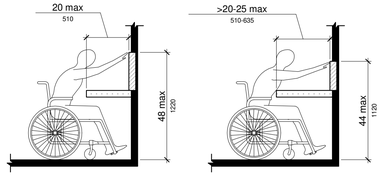
CONTRACT NO.: -

SHEET NO.: G0.2

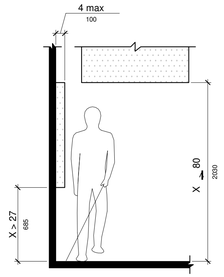
GENERAL AND DEMOLITION NOTES



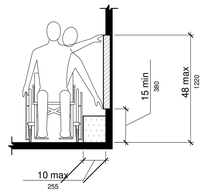
UNOBSTRUCTED FORWARD REACH



OBSTRUCTED HIGH FORWARD REACH



LIMIT OF PROTRUDING OBJECTS



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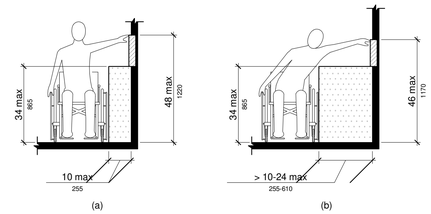
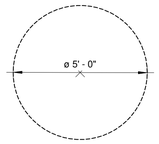


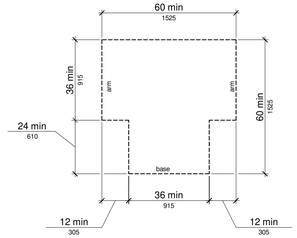
OBSTRUCTED HIGH FORWARD REACH

1 BUILDING BLOCKS1

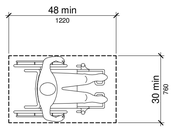
3/8" = 1'-0"



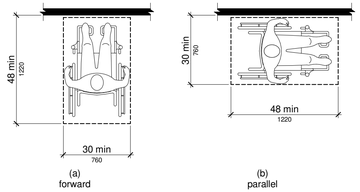
CIRCULAR TURNING SPACE



T-SHAPED TURNING SPACE



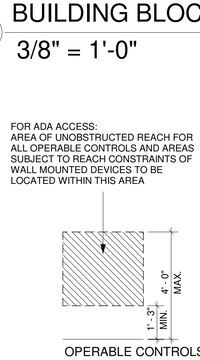
CLEAR FLOOR OR GROUND SPACE



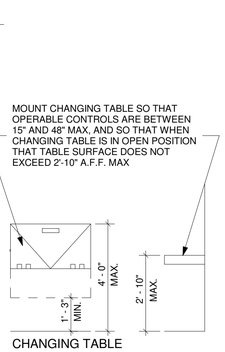
POSITION OF CLEAR FLOOR OR GROUND SPACE

2 FLOOR CLEARANCES1

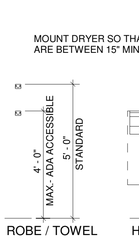
3/8" = 1'-0"



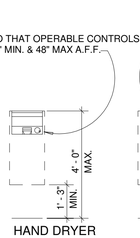
OPERABLE CONTROLS ZONE



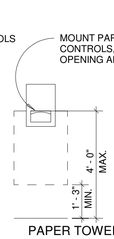
CHANGING TABLE



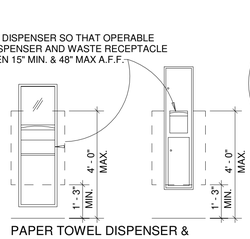
ROBE / TOWEL HOOK



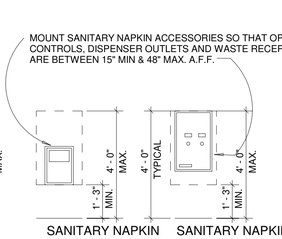
HAND DRYER



PAPER TOWEL DISPENSER

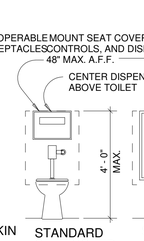


PAPER TOWEL DISPENSER & WASTE RECEPTACLE

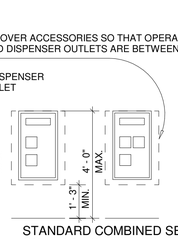


SANITARY NAPKIN DISPOSAL

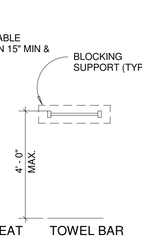
SANITARY NAPKIN DISPENSER



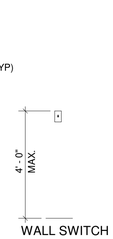
STANDARD SEAT COVER DISPENSER



STANDARD COMBINED SEAT COVER & TOILET TISSUE DISPENSERS



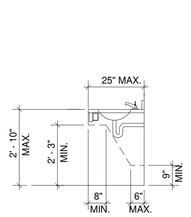
TOWEL BAR



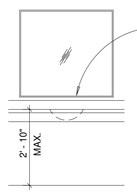
WALL SWITCH

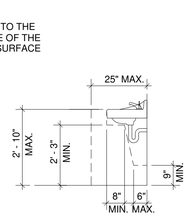
3 MOUNTING HEIGHTS1

3/8" = 1'-0"

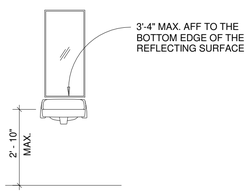


COUNTER WITH
DROP IN LAVATORY



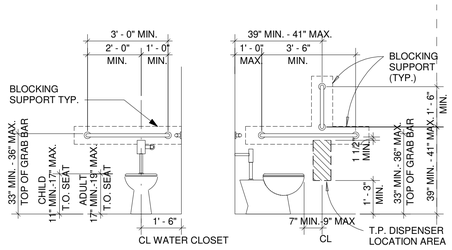


WALL HUNG LAVATORY



4 ADA SINK & VANITY1

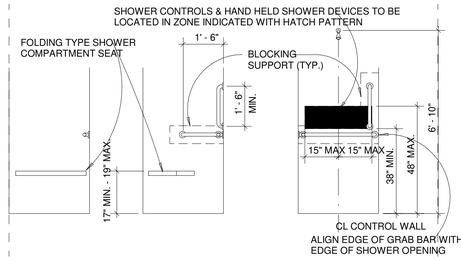
3/8" = 1'-0"



ADA TOILET & GRAB BARS - FLOOR MTD.

5 ADA TOILET & GRAB BAR1

3/8" = 1'-0"



SHOWER / ADA SHOWER

6 SHOWER/ ADA SHOWER1

3/8" = 1'-0"

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REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE: 04.22.2025

DRAWN BY: B.J.S.

CHECKED BY: J.P.W.

APPROVED BY: J.P.W.

PROJECT NO.: 23-005.C

CONTRACT NO.: -

SHEET NO.: G0.3

ADA REQUIREMENTS & STANDARDS

DIVISION I- GENERAL REQUIREMENTS AND COVENANTS

1. ONLY APPROVED MATERIALS SHALL BE USED
CONTRACTOR SHALL USE ONLY MATERIALS IN THE WORKS THAT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS, RELEVANT SECTIONS OF FLORIDA DEPARTMENT OF TRANSPORTATION PUBLICATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2000."

2. INSPECTION AND TESTS AT SOURCE OF SUPPLY

2.1 GENERAL: IF THE VOLUME, PROGRESS OF THE WORK, AND OTHER CONSIDERATIONS WARRANT, THE ENGINEER OF RECORD(E.O.R.) MAY INSPECT THE MATERIALS AT THE SOURCE OF SUPPLY.

2.2 COOPERATION BY CONTRACTOR: THE CONTRACTOR SHALL PROVIDE THE E.O.R. WITH FREE ENTRY AT ALL TIMES TO SUCH PARTS OF THE PLANT THAT CONCERN THE MANUFACTURE OR PRODUCTION OF THE MATERIALS ORDERED.

3. CONTROL BY SAMPLES AND TESTS

3.1 PAVEMENT SAMPLES: FOR BOTH BASE COURSE AND SURFACE COURSE PAVEMENTS, THE CONTRACTOR SHALL FURNISH SAMPLES TAKEN FROM THE COMPLETED WORK FROM ANY LOCATION THAT THE E.O.R. INDICATES, AND IMMEDIATELY REPLACE THE AREAS SO REMOVED WITH MATERIALS AND CONSTRUCTION THAT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS AND TO THE LINE AND GRADE OF THE IMMEDIATE SURROUNDING PAVEMENT SURFACE.

3.2 APPLICABLE STANDARDS: METHODS OF SAMPLING AND TESTING MATERIALS SHALL BE IN ACCORDANCE WITH STANDARDS OF AASHTO OR ASTM.

3.3 SIEVES: USE SIEVES MEETING THE REQUIREMENTS OF AASHTO M 92.

3.4 INSPECTION AT PLANTS: CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ACCESS TO ALL PARTS OF ALL PAVING OR OTHER PLANTS CONNECTED WITH THE WORK TO OBSERVE WEIGHTS OR PROPORTIONS OR CHARACTER OF MATERIALS AND TO DETERMINE TEMPERATURE USED IN PREPARING MATERIALS AND MIXTURES.

3.5 COMPACTION TESTS - PAVEMENT MATERIALS

3.5.1 WHEN REQUESTED BY THE ENGINEER OF RECORD (E.O.R.): NUCLEAR DENSITY OR OTHER APPROVED COMPACTION TESTS SHALL BE CARRIED OUT ON EACH LAYER OF COMPACTED BASE AND EMBANKMENTS. TWENTY-FOUR HOURS NOTICE OF ANY TEST SHALL BE GIVEN TO THE PROJECT ENGINEER AND COPIES OF THE TEST RESULT SHALL BE FORWARDED TO THE E.O.R. AS SOON AS POSSIBLE. THE CONTRACTOR SHALL KEEP COPIES OF THE TIME AND LOCATION OF ALL TESTS.

3.5.2 FIELD-TESTING: SHALL CONFORM TO ASTM STANDARDS OR APPROVED EQUIVALENT. MOISTURE DENSITY CURVES SHALL CONFORM TO ASTM D698-78; SIEVE ANALYSES TO ASTM C136-84A; AND FIELD DENSITIES TO ASTM D2167-84 OR TO ASTM D2922-81.

4. STORAGE OF MATERIALS

4.1 METHOD OF STORAGE: MATERIALS SHALL BE STORED IN SUCH A MANNER AS TO PRESERVE THEIR QUALITY AND FITNESS FOR THE WORK TO FACILITATE PROMPT INSPECTION AND TO MINIMIZE THE NOISE IMPACTS ON SENSITIVE RECEIVERS.

5. DEFECTIVE MATERIALS

5.1 THE FOLLOWING MATERIALS SHALL BE CONSIDERED DEFECTIVE: ALL MATERIALS NOT MEETING THE REQUIREMENTS OF THESE SPECIFICATIONS; MATERIALS THAT ARE OR HAVE BEEN IMPROPERLY STORED; AND MATERIALS THAT ARE MIXED WITH EXCESS OF CLAY, COAL , STICKS, BURLAP, HAY, STRAW, LOAM OR EARTH, OR OTHER DEBRIS.

6. LEGAL REQUIREMENTS AND RESPONSIBNLITY TO THE PUBLIC

6.1 OCCUPATIONAL SAFETY AND HEALTH REQUIREMENTS: THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY FOR THE PROTECTION OF LIFE, HEALTH AND GENERAL OCCUPATIONAL WELFARE OF ALL PERSONS INCLUDING THE CONTRACTORS EMPLOYEES AND AUTHORIZED VISITORS TO THE SITE.

7. SANITARY PROVISIONS

7.1 THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN A NEAT AND SANITARY CONDITION, SUCH ACCOMMODATIONS FOR THE USE OF HIS EMPLOYEES AS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE UNITED STATES VIRGIN ISLANDS (USVI),

8. CONTROL OF CONTRACTOR'S EQUIPMENT

8.1 PROTECTION FROM DAMAGE BY TRACTOR-TYPE EQUIPMENT: THE CONTRACTOR SHALL TAKE POSITIVE MEASURES TO ENSURE THAT TRACTOR-TYPE EQUIPMENT DOES NOT DAMAGE THE ROAD. IF SUCH DAMAGE SHOULD OCCUR, CONTRACTOR SHALL REPAIR IT WITHOUT DELAY, AT NO EXPENSE TO THE OWNER AND SUBJECT TO THE APPROVAL OF THE E.O.R.

9. PRESERVATION OF PROPERTY

9.1 UTILITIES: CONTRACTOR SHALL NOT COMMENCE WORK AT POINTS WHERE THE CONSTRUCTION OPERATIONS ARE ADJACENT TO UTILITY FACILITIES OR OTHER PROPERTY, UNTIL MAKING ARRANGEMENTS WITH THE UTILITY FACILITIES TO PROTECT AGAINST DAMAGE THAT MIGHT RESULT IN EXPENSE, LOSS, DISRUPTION IN SERVICE OR OTHER INCONVENIENCE TO THE PUBLIC OR THE OWNERS.

10. RECORD OF CONSTRUCTION MATERIALS

10.1 GENERAL: FOR ALL CONSTRUCTION MATERIALS USED IN CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL PRESERVE FOR THE E.O.R'S INSPECTION THE INVOICES AND RECORDS OF MATERIALS FOR A PERIOD OF THREE YEARS FROM THE DATE OF COMPLETION OF THE PROJECT. THIS ALSO APPLIES TO MATERIALS PURCHASED BY SUBCONTRACTORS.

DIVISION II- CONSTRUCTION DETAILS

1. CONSTRUCTION EQUIPMENT-GENERAL REQUIREMENTS

1.0 GENERAL: UNLESS RESTRICTED TO A SPECIFIC TYPE BY THE CONTRACT DOCUMENTS OR THE E.O.R., THE CONTRACTOR MAY PERFORM THE WORK USING EQUIPMENT, TOOLS, MACHINERY, ETC., OF HIS OWN CHOOSING. NOTE THAT FACILITIES TO BE CONSTRUCTED UNDER THE CONTRACT ARE ADEQUATE TO SUPPORT ONLY THEIR DESIGN LOADS IN THEIR COMPLETED CONSTRUCTION STAGE. IF THE CONTRACTOR'S EQUIPMENT OR PROCEDURES DURING CONSTRUCTION DAMAGE ANY PART OF THE FACILITY, THE CONTRACTOR SHALL REPLACE OR REPAIR IT AS DIRECTED BY THE E.O.R . AT NO EXPENSE TO THE OWNER.

2. MAINTENANCE OF TRAFFIC

2.1 DESCRIPTION: THE CONTRACTOR SHALL MAINTAIN TRAFFIC WITHIN THE LIMITS OF THE PROJECT FOR THE DURATION OF THE CONSTRUCTION PERIOD, INCLUDING ANY TEMPORARY SUSPENSIONS OF THE WORK. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ANY DETOUR FACILITIES, PROVIDE NECESSARY FACILITIES FOR ACCESS TO RESIDENCES, BUSINESSES, ETC., ALONG THE PROJECT. CONTRACTOR SHALL FURNISH AND APPLY CALCIUM CHLORIDE OR WATER ON THE SUBGRADE, UNSURFACD BASE, OR OTHER UNSURFACED TRAVELED WAYS IN ORDER TO CONTROL DUST DURING THE CONSTRUCTION OPERATIONS.

3. TRAFFIC CONTROL

3.1 STANDARDS: FHWA'S MUTCD PART VI IS THE MINIMUM STANDARDS FOR TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS. CONTRACTOR SHALL UNDERSTAND THE STANDARDS ESTABLISHED IN THE AFOREMENTIONED MANUAL CONSTITUTE THE MINIMUM REQUIREMENTS FOR NORMAL CONDITIONS. THE E.O.R. MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DEVICES, WARNING DEVICES, BARRIERS, OR OTHER SAFETY DEVICES WHERE UNUSUAL, COMPLEX, OR PARTICULARLY HAZARDOUS CONDITIONS EXIST.

3.2 MAINTENANCE OF DEVICES AND BARRIERS-P CONTRACTOR SHALL KEEP TRAFFIC CONTROL DEVICES, WARNING DEVICES, AND BARRIERS IN THE CORRECT POSITION PROPERLY DIRECTED, CLEARLY VISIBLE AND CLEAN AT ALL TIMES. CONTRACTOR SHALL IMMEDIATELY REPAIR, REPLACE OR CLEAN DAMAGED, DEFACED, OR DIRTY DEVICES OR BARRIERS AND HAVE THE E.O.R. APPROVE THEM FOR USE.

4. PREVENITON, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION

4.1 DESCRIPTION: CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES ON THE PROJECT AND IN AREAS OUTSIDE THE RIGHT-OF-WAY WHERE WORK IS ACCOMPLISHED IN CONJUNCTION WITH THE PROJECT, SO AS TO PREVENT POLLUTION OF WATER, DETRIMENTAL EFFECTS TO PUBLIC OR PRIVATE PROPERTY ADJACENT TO THE PROJECT RIGHT-OF-WAY AND DAMAGE TO WORK ON THE PROJECT. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY EROSION CONTROL FEEATURES OR, WHERE PRACTICAL, CONSTRUCT AND MAINTAIN PERMANENT EROSION CONTROL FEATURES AS SHOWN IN THE PLANS OR AS MAY BE DIRECTED BY THE E.O.R.

5. CLEARING AND GRUBBING

5.1 DESCRIPTION: CONTRACTOR SHALL CLEAR AND GRUB WITHIN THE AREAS OF THE ROADWAY RIGHT-OF-WAY AND OF BORROW PITS, SAND-CLAY BASE MATERIAL PITS, LATERAL DITCHES AND ANY OTHER AREAS SHOWN IN THE PLANS TO BE CLEARED AND GRUBBED. REMOVE AND DISPOSE OF ALL TREES, STUMPS, ROOTS, AND OTHER SUCH PROTRUDING OBJECTS, AND BUILDINGS, STRUCTURES, APPURTENANCES, EXISTING FLEXIBLE ASPHALT PAVEMENT, AND OTHER FACILITIES NECESSARY TO PREPARE THE AREA FOR THE PROPOSED CONSTRUCTION, AND REMOVE AND DISPOSE OF ALL PRODUCT AND DEBRIS NOT REQUIRED TO BE SALVAGED OR NOT REQUIRED TO COMPLETE THE CONSTRUCTION.
CONTRACTOR SHALL ALSO PERFORM MISCELLANEOUS WORK THE E.O.R. CONSIDERS NECESSARY FOR THE COMPLETE PREPARATION OF THE OVERALL PROJECT SITE AS FOLLOWS:

(a) PLUG ANY WATER WELLS THAT ARE ENCOUNTERED WITHIN THE RIGHT-OF-WAY AND THAT ARE TO BE ABANDONED,

(b) LEVEL THE TERRAIN OUTSIDE THE LIMITS OF CONSTRUCTION FOR PURPOSES OF FACILITATING MAINTENANCE AND OTHER POST-CONSTRUCTION OPERATIONS.

(c) TRIM TREES AND SHRUBS WITHIN THE PROJECT RIGHT-OF-WAY THAT ARE IDENTIFIED IN THE PROJECT DOCUMENTS.

6. STABILIZING

6.1 DESCRIPTION: STABILIZE DESIGNATED PORTIONS OF THE ROADBED TO PROVIDE A FIRM AND UNYIELDING SUBGRADE, HAVING THE REQUIRED BEARING VALUE SPECIFIED IN THE PLANS. WHEN SPECIFIED IN THE PLANS, PROVIDE ADDITIONAL STRENGTHENING OF THE SUBBASE BY ADDITIONAL STABILIZING OF THE UPPER PORTION OF THE PREVIOUSLY STABILIZED SUBGRADE, WITHIN THE LIMITS SPECIFIED.

6.2 MAXIMUM PARTICLE SIZE OF MIXED MATERIALS: AT THE COMPLETION OF THE MIXING, ENSURE THAT THE GRADATION OF THE MATERIAL WITHIN THE LIMITS OF THE AREA BEING STABILIZED IS SUCH THAT 97% WILL PASS A 3 1/2" (90MM) SIEVE AND THAT THE MATERIAL DOES NOT HAVE A PLASTICITY INDEX GREATER THAN EIGHT OR LIQUID LIMIT GREATER THAN THIRTY.

6.3 DENSITY REQUIREMENTS: WITHIN THE ENTIRE LIMITS OF THE WIDTH AND DEPTH OF THE AREAS TO BE STABILIZED, OBTAIN A MAXIMUM DENSITY OF 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T180.

7. GRANULAR BASE

7.1 MATERIALS: MATERIALS SHALL MEET THE REQUIREMENTS OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) STANDARD. THE CONTRACTOR MAY USE MORE THAN ONE SOURCE OF GRANULAR BASE ON A SINGLE CONTRACT PROVIDED THAT A SINGLE SOURCE IS USED THROUGHOUT THE ENTIRE WIDTH AND DEPTH OF A SECTION OF BASE. OBTAIN APPROVAL FROM THE E.O.R. BEFORE PLACING MATERIAL FROM MORE THAN ONE SOURCE.

7.2 METHOD OF SPREADING: CONTRACTOR SHALL SPREAD THE ROCK UNIFORMLY, REMOVE ALL SEGREGATED AREAS OF FINE OR COURSE ROCK AND REPLACE THEM WITH PROPERLY GRADED ROCK.

7.3 GRANULAR BASE FOR SHOULDER PAVEMENT: UNLESS OTHERWISE PERMITTED, CONTRACTOR SHALL COMPLETE ALL GRANULAR BASE SHOULDER CONSTRUCTION AT ANY PARTICULAR LOCATION BEFORE PLACING THE FINAL COURSE OF PAVEMENT ON THE TRAVELED ROADWAY. WHEN DUMPING MATERIAL FOR THE CONSTRUCTION OF A GRANULAR BASE ON THE SHOULDERS, DO NOT ALLOW MATERIAL CAPABLE OF SCARRING OR CONTAMINATING THE PAVEMENT SURFACE ON THE ADJACENT PAVEMENT. IMMEDIATELY SWEEP OFF ANY GRANULAR MATERIAL THAT IS DEPOSITED ON THE SURFACE COURSE.

7.4 DENSITY REQUIREMENTS: WHEN PROPER MOISTURE CONDITIONS ARE OBTAINED, COMPACT MATERIAL TO NOT LESS THAN 98% OF MAXIMUM DENSITY DETERMINED BY AASHTO T180. COMPACT THE GRANULAR BASE FOR SHOULDER PAVEMENT TO NOT LESS THAN 95% OF MAXIMUM DENSITY DETERMINED BY AASHTO T180.

7.5 PRIMING: CONTRACTOR SHALL APPLY THE PRIME COAT ONLY WHEN THE BASE MEETS THE SPECIFIED DENSITY REQUIREMENTS AND WHEN THE MOISTURE CONTENT IN THE TOP HALF OF THE BASE DOES NOT EXCEED 90% OF THE OPTIMUM MOISTURE OF THE BASE MATERIAL. AT THE TIME OF PRIMING ENSURE THAT THE BASE IS FIRM, UNYIELDING AND IN SUCH CONDITION THAT NO UNDUE DISTORTION WILL OCCUR.

7.6 MAINTAINING: MAINTAIN THE TRUE CROWN AND TEMPLATE, WITH NO RUTTING OR OTHER DISTORTION WHEN APPLYING THE SURFACE COURSE.

8. PRIME AND TACK COATS FOR BASE COURSES

8.1 DESCRIPTION: CONTRACTOR SHALL APPLY PRIME COATS ON PREVIOUSLY PREPARED BASES, AND APPLY TACK COATS ON PREVIOUSLY PREPARED BASES AND ON EXISTING PAVEMENT SURFACES.

8.2 PRIME COAT: FOR PRIME COAT, CONTRACTOR SHALL USE CUTBACK ASPHALT GRADE RC-70 OR RC-250) MEETING REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS, SECTION 916-3.

8.3 COVER MATERIAL FOR PRIME COAT: UNIFORMLY COVER THE PRIME BASE BY A LIGHT APPLICATION OF COVER MATERIAL. THE CONTRACTOR MAY USE EITHER SAND OR SCREENINGS FOR COVER MATERIAL. FOR THE SAND, MEET THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTION 902-2 OR 902-6. AND FOR THE SCREENINGS MEET THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTION 902-5. IF EXPOSING THE PRIMED BASE COURSE TO GENERAL TRAFFIC, APPLY A COVER MATERIAL THAT HAS BEEN COATED WITH 2 TO 4% ASPHALT CEMENT. APPLY THE ASPHALT COATED MATERIAL AT APPROXIMATELY 10 LB /SQ.YD [5.5 KG/SQ. M]. ROLL THE ENTIRE SURFACE OF ASPHALT COATED MATERIAL WITH A TRAFFIC ROLLER AS REQUIRED TO PRODUCE A REASONABLE DENSE MAT.

8.4 TACK COAT: UNLESS THE CONTRACT DOCUMENTS CALL FOR A SPECIFIC TYPE OR GRADE OF TACK COAT, USE UNDILUTED EMULSIFIED ASPHALT GRADES RS-1 OR RS-2 MEETING THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTION 916-4. HEAT RS-1 OR RS-2 TO A TEMPERATURE OF 140 TO 180° F [60 TO 82°C].

8.5 APPLICATION OF PRIME COAT

8.5.1 GENERAL: CONTRACTOR SHALL CLEAN THE SURFACE TO BE PRIMED AND ENSURE THAT THE MOISTURE CONTENT OF THE BASE DOES NOT EXCEED 90% OF THE OPTIMUM MOISTURE. ENSURE THAT THE TEMPERATURE OF THE PRIME MATERIAL IS BETWEEN 100 AND 150° F (40 AND 65° C). APPLY THE MATERIAL WITH A PRESSURE DISTRIBUTOR. DETERMINE THE APPLICATION AMOUNT BASED ON THE CHARACTER OF THE SURFACE. USE AN AMOUNT SUFFICIENT TO COAT THE SURFACE THOROUGHLY AND UNIFORMLY WITH NO EXCESS.

8.5.2 RATE OF APPLICATION: CONTRACTOR SHALL USE A RATE OF APPLICATION THAT IS NOT LESS THAN 0.1 GAL/SQ.YD [0.5 L/SQ.M], UNLESS A LOWER RATE IS DIRECTED BY THE E.O.R.

8.6 APPLICATION OF PRIME COAT

8.6.1 WHERE REQUIRED: IN GENERAL THE E.O.R. WILL NOT REQUIRE A TACK COAT ON PRIMED BASES EXCEPT IN AREAS THAT HAVE BECOME EXCESSIVELY DIRTY AND CANNOT BE CLEANED, OR IN AREAS WHERE THE PRIME HAS CURED TO AN EXTENT THAT IT HAS LOST ALL BONDING EFFECT. GENERALLY, THE E.O.R. WILL REQUIRE A TACK COAT ON HOT BITUMINOUS BASE COURSE BEFORE PLACING THE SURFACE COURSE.

8.6.2 METHOD OF APPLICATION: CONTRACTOR SHALL APPLY THE TACK COAT WITH A PRESSURE DISTRIBUTOR EXCEPT THAT ON SMALL JOBS, IF APPROVED BY THE E.O.R., IT MAY BE APPPLIED BY OTHER MECHANICAL DEVICES OR BY HAND METHODS. HEAT THE BITUMINOIS MATERIAL TO A SUITABLE TEMPERATURE AS DESIGNATED BY THE E.O.R., AND APPLY IT IN A THIN, UNIFORM LAYER.

8.6.3 RATE OF APPLICATION: CONTRACTOR SHALL USE A RATE OF APPLICATION BETWEEN 0.02 AND 0.08 GAL/SQ.YD [0.09 AND 0.36 L/SQ.M].

9. BITUMINOUS SURFACE TREATMENT (INCLUDING MINERAL SEAL COAT)

9.1 DESCRIPTION: CONTRACTOR SHALL CONSTRUCT A WEARING SURFACE OF SEPARATE APPLICATIONS OF BITUMINOUS MATERIAL COVEREED WITH AGGREGATE, EITHER IN SINGLE APPLICATIONS, DOUBLE (ALTERNATE) APPLICATIONS OR TRIPLE (ALTERNATE) APPLICATIONS

9.2 COMPOSITION AND PROPORTIONING: THE COMPOSITION AND PROPORTIONING FOR THE VARIOUS TYPES OF BITUMINOUS SURFACE TREATMENT AND FOR MINERAL SEAL COAT SHALL BE AS PER THE TABLES IN FDOT STANDARD SPECIFICATIONS SECTION 310-2.

9.3 EQUIPMENT:

9.3.1 PRESSURE DISTRIBUTOR: CONTRACTOR SHALL PROVIDE A PRESSURE DISTRIBUTOR THAT IS EQUIPPED WITH PNEUMATIC TIRES HAVING A SUFFICIENT WIDTH OF RUBBER IN CONTACT WITH THE ROAD SURFACE TO AVOID BREAKING THE BOND OR FORMING A RUT IN THE SURFACE. ENSURE THAT THE DISTANCES BETTWEEN THE CENTRES OF OPENINGS OF THE OUTSIDE NOZZLES OF THE SPRAY BAR IS EQUAL TO THE WIDTH OF THE APPLICATION REQUIRED, WITHIN A ALLOWABLE VARIATION OF 2 INCHES [50 MM]. ENSURE THAT THE OUTSIDE NOZZLE AT EACH END OF THE SPRAY BAR HAS AN AREA OF OPENING NOT LESS THAN 25% OR MORE THAN 75% IN EXCESS OF THE OTHER NOZZLES. ENSURE THAT ALL NOZZLES HAVE UNIFORM OPENINGS.

9.3.2 SPREADING EQUIPMENT: CONTRACTOR SHALL PROVIDE SUFFICIENT TRUCKS AD AGGREGATE SPREADERS AT THE SITE OF THE WORK TO ENSURE CONTINUOUS SPREADING OF THE AGGREGATE ON THE UNCOVERED BITUMINOUS MATERIAL. USE A SPREADER OF THE MECHANICAL TYPE THAT IS SELF-SUPPORTED (TOWED) OR SELF-PROPELLED THAT IS CAPABLE OF PRODUCING A SMOOTH, UNIFORM DISTRIBUTION OF THE COVER MATERIAL. DO NOT USE SPREADERS OF THE TYPE ATTACHED DIRECTLY TO THE BACK OF THE TRUCK BODY (TAIL GATE SPREADERS).

9.3.3 ROLLERS: CONTRACTOR SHALL PROVIDE ROLLERS THAT ARE 3 TO 5 TON [2.7 TO 4.5 METRIC TON] STEEL-TIRED OR COMBINATION STEEL AND RUBBER-TIRED. ROLLERS AND SELF-PROPELLED. PNEUMATIC-TIRED TRAFFIC TYPE ROLLERS THAT ARE EQUIPPED WITH AT LEAST SEVEN SMOOTH-TREAD, LOW-PRESSURE TIRES AND CAPABLE OF CARRYING A LOAD OF AT LEAST 8 TONS [7 METRIC TONS]. MAINTAIN THE INFLATION IN THE TIRES SUCH THAT IN NO TWO TIRES THE AIR PRESSURE VARIES MORE THAN 5 PSI [35 KPA]. LOAD THE TRAFFIC LOADER AS DIRECTED BY THE E.O.R.

9.4 APPLICATION OF BITUMINOUS MATERIAL:

9.4.1 DISTRIBUTOR PRESSURE: AFTER CLEANING THE SURFACE TO BE TREATED TO THE SATISFACTION OF THE E.O.R., THE CONTRACTOR SHALL UNIFORMLY SPRAY THE BITUMINOUS MATERIAL OVER THE SURFACE BY MEANS OF A PRESSURE DISTRIBUTOR, WHEN A SURFACE CONSTRUCTED UNDER THIS SECTION IS ON A PAVED SHOULDER, USE A STRINGLINE OR OTHER APPROVED METHOD TO PRODUCE A UNIFORM LINE ALONG THE EDGE OF THE APPLIED BITUMINOUS MATERIAL ADJACENT TO THE TRAFFIC LANES. USE A DISTRIBUTOR THAT MAINTAINS A PRESSURE OF AT LEAST 20 PSI [140 KPA] AND 75 PSI [520 KPA].

9.4.2 APPLICATION TEMPERATURES: FOR ASPHALT CEMENT, MAINTAIN AN APPLICATION TEMPERATURE BETWEEN 300 AND 350° F [150 AND 175° C]. FOR EMULSIFIED ASPHALT MAINTAIN AN APPLICATION TEMPERATURE BETWEEN 100 AND 170° F [38 AND 75° C]. FOR CUT-BACK ASPHALT, MAINTAIN AN APPLICATION TEMPERATURE BETWEEN 175 AND 275° F [80 AND 135° C].

9.4.3 UNIFORMITY OF DISTRIBUTION: CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO OBTAIN AN EVEN AND UNIFORM DISTRIBUTIOIN OF BITUMINOUS MATERIAL, AND ADJUST AND OPERATE THE DISTRIBUTOR SO AS TO MAINTAIN UNIFORM, EVEN DISTRIBUTION OF THE MATERIAL BEING APPLIED. IMMEDIATELY REMOVE EXCESSIVE DEPOSITS OF BITUMINOUS MATERIAL UPON THE ROAD SURFACE CAUSED BY STOPPING AND STARTING THE DISTRIBUTOR, BY LEAKAGE OR OTHERWISE.

9.5 SPREADING COVER MATERIAL

9.5.1 SPREADING: SPREAD THE COVER MATERIAL IMMEDIATELY FOLLOWING EACH APPLICATION OF BITUMINOUS MATERIAL. UNIFORMLY DISTRIBUTE THE COVER MATERIAL OVER THE BITUMINOUS SURFACE IN ONE, TWO, OR THREE COURSES AS SPECIFIED. PERFORM SPREADING USING APPROVED MECHANICAL SPREADERS, USING ONLY DIRVERS EXPERIENCED IN THIS TYPE OF WORK FOR DRIVING THE SPREADERS. DO NOT DRIVE TRUCKS OR SPREADERS ON THE UNCOVERED BITUMINOUS MATERIAL.

9.5.2 BROOMING AND DRESSING: IMMEDIATELY AFTER EACH APPLICATION OF COVER MATERIAL, BROOM THE SURFACE IN ORDER TO SECURE A UNIFORM DISTRIBUTION OF COVER MATERIAL AND A SMOOTH SURFACE. PLACE ADDITIONAL AGGREGATE BY HAND ON ANY AREAS NOT PROPERLY COVERED.

9.6 ROLLING AND CURING

9.6.1 GENERAL REQUIREMENTS: IMMEDIATELY AFTER THE SPREADING AND DRAGGING OF EACH APPLICATION OF COVER MATERIAL, ROLL THE ENTIRE SURFACE. BEGIN ROILLING WITHIN 30 MINUTES AFTER SPREADING OF THE COVER MATERIAL. BEGIN ROLLING AT THE EDGES AND PROGRESS TO THE CENTRE OF THE SURFACE. UNIFORMLY LAPPING EACH PRECEDING PASS AND THOROUGHLY COVERING THE ENTIRE SURFACE. DURING ROLLING, PERFORM ADDITIONAL DRAGGING AND HANDBROOMING AS SPECIFIED ABOVE. FIRST ROLL THE ENTIRE SURFACE WITH A TRAFFIC ROLLER, FOLLOWED IMMEDIATELY WITH A STEEL-WHEELED ROLLER. COVER THE ENTIRE SURFACE WITH A STEEL-WHEELED ROLLER. THEN, ROLL THE COVER MATERIAL AGAIN WITH THE TRAFFIC ROLLER, CONTINUE THE ROLLING AS LONG AS IS NECESSARY TO ENSURE THE THOROUGH KEYING OF THE COVER MATERIAL AND TO SECURE A UNIFORMLY CLOSED SURFACE.

9.6.2 SHOULDER PAVEMENT: FOR BITUMINOUS SURFACE-TREATED SHOULDER PAVEMENT, THE E.O.R. MAY REQUIRE ADDITIONAL ROLLING AS HE DEEMS NECESSARY TO COMPENSATE FOR THE LACK OF SUBSEQUENT ROLLING BY HIGHWAY TRAFFIC.

9.7 SURFACE REQUIREMENTS: CONTRACTOR SHALL PROVIDE A FINISHED SURFACE THAT IS UNIFORM AND CONFORMS TO THE LINES, GRADES AND CROSS SECTIONS SHOWN IN THE PLANS. REMOVE ALL PORTIONS OF THE COMPLETED SURFACE THAT ARE DEFECTIVE, ARE NOT PROPERLY FINISHED, HAVE FAT JOINTS, OR ARE NOT IN REASONABLY CLOSE CONFORMANCE WITH THESE SPECIFICATIONS, AND REPLACE THEM WITH A SATISFACTORY SURFACE.

9.8 PROTECTION: AFTER APPLYING THE BITUMINOUS MATERIAL, THE CONTRACTOR SHALL PREVENT TRAFFIC FROM USING THE ROAD UNTIL PLACING AND THOROUGHLY ROLLING THE COVER MATERIAL. IF POSSIBLE COMPLETE THE TRAFFIC OFF THE FINISHED SURFACE FOR AT LEAST 48 HOURS AFTER COMPLETING FINISHING

10. HOT BITUMINOUS MIXTURES

10.1 TRANSPORTATION OF THE MIXTURE: TRANSPORT THE MIXTURE IN TIGHT VEHICLES PREVIOUSLY CLEANED OF ALL FOREIGN MATERIAL. AFTER CLEANING, THINLY COAT THE INSIDE OF THE TRUCK BODIES WITH SOAPY WATER OR AN APPROVED EMULSION CONTAINING NOT MORE THAN 5% OIL. APPLY THE COATING PRIOR TO THE FIRST LOADING EACH DAY AND REPEAT AS NECESSARY THROUGHOUT THE DAY'S OPERATIONS. AFTER THE TRUCK BODIES ARE COATED AND BEFORE ANY MIXTURE IS PLACED THEREIN, RAISE THEM TO DRAIN OUT ANY EXCESS LIQUIDS. COVER EACH LOAD DURING COOL AND CLOUDY WEATHER AND AT ANY TIME THERE IS A PROBABILITY OF RAIN.

10.2 PREPARATION OF APPLICATION SURFACES

10.2.1 CLEANING: PRIOR TO THE LAYING OF THE MIXTURE, CLEAN THE SURFACE OF THE BASE OR THE PAVEMENT TO BE COVERED OF ALL LOOSE OR DELETERIOUS MATERIAL BY THE USE OF POWER BROOMS OR BLOWERS, SUPPPLEMENTED BY HAND BROOMING WHERE NECESSARY.

10.2.2 PATCHING AND LEVELING COURSES: WHEN AN ASPHALT MIX IS TO BE PLACED ON AN EXISTING PAVEMENT OR OLD BASE WHICH IS IRREGULAR, AND WHEREVER THE PLANS INDICATE, BRING THE EXISTING SURFACE TO PROPER GRADE AND CROSS SECTION BY THE APPLICATION OF PATCHING AND LEVELING COURSES.

10.2.3 APPLICATION OVER SURFACE TREATMENT: WHERE AN ASPHALT MIX IS TO BE PLACED OVER NEWLY CONSTRUCTED SURFACE TREATMENT, SWEEP AND DISPOSE OF ALL LOOSE MATERIAL FROM THE PAVING AREA.

10.2.4 COATING SURFACES OF CONTACTING STRUCTURES: PAINT ALL STRUCTURES WHICH WILL BE IN ACTUAL CONTACT WITH THE ASPHALT MIXTURE, WITH THE EXCEPTION OF THE VERTICAL FACES OF THE EXISTING PAVEMENTS AND CURBS OR CURB AND GUTTER, WITH A UNIFORM COATING OF ASPHALT CEMENT TO PROVIDE A CLOSELY BONDED, WATER-TIGHT JOINT.

10.3 PLACING MIXTURE

10.3.1 ALIGNMENT OF EDGES: LAY ALL ASPHALTIC CONCRETE MIXTURES, INCLUDING LEVELING COURSES OTHER THAN ADJACENT TO CURB AND GUTTER AND OTHER TRUE EDGES, BY THE STRINGLINE METHOD TO OBTAIN AN ACCURATE, UNIFORM ALIGNMENT OF THE PAVEMENT EDGE.

10.3.2 TEMPERATURE OF SPREADING: THE CONTRACTOR SHALL MAINTAIN THE TEMPERATURE OF THE MIX AT THE TIME OF SPREADING TO WITHIN +/- 24° F [+/- 14° C] OF THE ESTABLISHED MIX TEMPERATURE ESTABLISHED BY THE CONTRACTOR. AS A MINIMUM, THE ENGINEER WILL TAKE MIX TEMPERATURES OF THE MIX ON THE ROAD IN AN AVERAGE FREQUENCY OF ONE PER FIVE TRUCKS. IF THE TEMPERATURE FAILS TO FALL WITHIN SPECIFIED TOLERANCE CORRECTIVE ACTION MAY NEED TO BE TAKEN.

10.3.3 RAIN AND SURFACE CONDITIONS: IMMEDIATELY CEASE TRANSPORTATION OF ASPHALT MIXTURES FROM THE PLANT WHEN RAIN BEGINS AT THE ROADWAY. DO NOT PLACE ASPHALT MIXES WHILE RAIN IS FALLING, OR WHEN THERE IS WATER ON THE SURFACE TO BE COVERED. AS AN EXCEPTION, THE CONTRACTOR MAY PLACE MIXTURES CAUGHT IN TRANSIT AT THE CONTRACTOR'S RISK IF THE ONLY OPTION IS TO WASTE THE MIXTURE AND PROVIDED THE SURFACE HAS BEEN TACKED AS SPECIFIED PRIOR TO THE RAIN AND THE SURFACE IS BROOMED IN FRONT OF THE SPREADING OPERATION.

10.4 COMPACTING MIXTURE

10.4.1 STANDARD ROLLING PROCEDURE: CONTRACTOR SHALL MEET THE FOLLOWING EQUIPMENT, SEQUENCE , AND COVERAGE REQUIREMENTS:

1. SEAL ROLLING: PROVIDE TWO COVERAGES WITH A TANDEM STEEL-WHEELED ROLLER (EITHER VIBRATORY OR STATIC), WEIGHING 5 TO 12 TONS [4.5 TO 11 METRIC TONS], FLOOLWING AS CLOSE BEHIND THE SPREADER AS POSSIBLEWITHOUT PICK-UP, UNDUE DISPLACEMENT OR BLISTERING OF THE MATERIAL. USE VIBRATORY ROLLERS IN THE STATIC MODE FOR LAYERS OF 1 INCH [25MM] OR LESS IN THICKNESS.

2. INTERMEDIATE ROLLING: PROVIDE FIVE COVERAGES WITH A SEFL-PROPELLED PNEUMATIC-TIRED ROLLER, FOLLOWING AS CLOSE BEHIND THE SEAL ROLLNG OPERATION AS THE MIX WILL PERMIT.

3. FINAL ROLLING: PROVIDE ONE COVERAGE WITH A TANDEM STEEL-WHEELED ROLLER (STATIC MODE ONLY), WEIGHING 5 TO 12 TONS [4.5 TO 11 METRIC TONS], AFTER COMPLETING THE SEAL ROLLING AND INTERMEDIATE ROLLING, BUT BEFORE THE SURFACE PAVEMENT TEMPERATURE DROPS BELOW 160° F [70°C].

10.4.2 ROLLING PROCEDURES: ENSURE THAT THE INITIA

2.2.5 CONSTRUCTION TRAFFIC SHALL NOT USE ANY ROAD FORMATION AT THE BOTTOM OF A CUTTING UNLESS THE CUTTING IS IN ROCK OR THE CONTRACTOR MAINTAINS THE LEVEL OF THE BOTTOM SURFACE AT LEAST 1 FOOT ABOVE FORMATION LEVEL.
THE CONTRACTOR AT HIS OWN EXPENSE SHALL REPAIR ANY DAMAGE TO THE SUB-GRADE ARISING FROM SUCH USE OF THE SURFACE.

2.3 PREPARATION OF FILL AREAS: UNLESS OTHERWISE REQUIRED BY THE CONTRACT THE NATURAL GROUND OVER WHICH FILLING IS TO BE PLACE SHALL BE CLEARED OF ALL LOOSE BOULDERS, GRASS, PRODUCTIVE SOIL, BUSHES, TREES, ROOTS AND OTHER VEGETATION. NO FILLING MATERIAL SHALL BE PLACED UNTIL ALL WATERCOURSES HAVE BEEN DIVERTED OR UNDER DRAINED. ALL POTHOLES OR CAVITIES DISCOVERED SHALL BE OPENED UP, FILLED AND COMPACTED BEFORE ANY FILLING TAKES PLACE.

2.4 FORMING OF EMBANKMENTS: ALL FILLING MATERIAL SHALL BE OBTAINED FROM APPROVED BORROW AREAS OR FROM OTHER SOURCES APPROVED BY THE PROJECT ENGINEER.

2.4.1 EMBANKMENTS SHALL BE FORMED OF MATERIAL DEFINED AS SUITABLE MATERIAL IN CLAUSE 4.1 THE MATERIAL SHALL BE DEPOSITED AND COMPACTED AS SOON AS PRACTICABLE AFTER EXCAVATION IN ACCORDANCE WITH CLAUSE 4.7. EMBANKMENTS SHALL BE BUILT UP EVENLY OVER THE FULL WIDTH AND SHALL BE MAINTAINED AT ALL TIMES WITH A SURFACE OF SUFFICIENT CAMBER AND SUFFICIENTLY EVEN TO ENABLE SURFACE WATER TO DRAIN READILY FROM THEM. DAMAGE TO COMPACTED LAYERS BY CONSTRUCTION TRAFFIC SHALL BE REPAIRED BY THE CONTRACTOR.

2.4.2 THE EXISTING GROUND BELOW EMBANKMENT AREAS SHALL BE CLEARED AS SPECIFIED IN 2.4, AND THEN RIPPED TO A DEPTH OF TWELVE INCHES (12") BELOW EXISTING GROUND LEVEL. THE RIPPED ROCK SHALL THEN BE WELL WALKED IN UNTIL IT WILL PASS A 4" GAUGE AND THOROUGHLY COMPACTED IN ACCORDANCE WITH TABLE 2.1.

2.4.3 ROCK USED, AS FILL SHALL BE OF SUCH SIZE THAT IT CAN BE DEPOSITED IN HORIZONTAL LAYERS, EACH NOT EXCEEDING 18 INCHES LOOSE DEPTH AND EXTENDING OVER THE FULL WIDTH OF THE EMBANKMENTS. MATERIALS SHALL BE SPREAD AND LAID BY A CRAWLER TRACTOR WEIGHING NOT LESS THAN 15 TONS AND COMPACTED IN ACCORDANCE WITH CLAUSE 3.2. EACH LAYER SHALL CONSIST OF REASONABLY GRADED ROCK AND ALL SURFACE VOIDS SHALL BE FILLED WITH BROKEN FRAGMENTS BEFORE THE NEXT LAYER IS PLACED. THE TOP SURFACE AND SIDE SLOPES OF EMBANKMENTS SO FORMED SHALL BE THOROUGHLY BLINDED WITH APPROVED FINE GRADED MATERIALS TO SEAL THE SURFACE.

2.4.4 IF THE CONTRACTOR WISHES TO CONTINUE TO USE THE SURFACE OF EMBANKMENTS FOR CONSTRUCTION TRAFFIC BEFORE TRIMMING TO FORMATION LEVEL HE SHALL BRING UP AND MAINTAIN THE SURFACE TO A LEVEL NOT LESS THAN 6 INCHES ABOVE FORMATION LEVEL. ANY DAMAGE TO THE SUBGRADE CAUSE BY THE USE OF SUCH SURFACE SHALL BE MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE.

2.5 COMPACTION
ALL MATERIAL SHALL BE COMPACTED AS SOON AS PRACTICABLE AFTER DEPOSITION. THE PERCENTAGE COMPACTION SHALL EQUAL OR EXCEED 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
AS A GUIDELINE TABLE 2.1 GIVES COMPACTION REQUIREMENTS FOR TYPES OF EQUIPMENT, DEPTH OF LAYER AND NUMBER OF PASSES. LISTED BELOW ARE THE DEFINITIONS AND CLASSIFICATIONS ASSOCIATED WITH TABLE 2.1

TABLE 2.1 COMPACTION REQUIREMENTS
D= MAXIMUM DEPTH OF COMPACTED LAYER (INCHES)
N= MINIMUM NUMBER OF PASSES

TYPE OF COMPACTION PLANT	CATEGORY	UNIFORMLY GRADED MATERIAL D	N
MASS PER YD WIDTH OF ROLL:			
SMOOTH-WHEELED ROLLER	OVER 0.71T UP TO 0.91T	5	10*
	OVER 0.91T UP TO 1.80T	5	8*
	OVER 1.81T	UNSUITABLE	
GRID ROLLER	OVER 0.91T UP TO 1.81T	6	10*
	OVER 1.81T UP TO 1.82T	UNSUITABLE	
	OVER 1.82T	UNSUITABLE	
TAMPING ROLLER	OVER 4.41T	10	4
VIBRATING ROLLER	MASS PER YARD WIDTH OF A VIBRATING ROLL:		
	OVER 0.09T UP TO 0.15T	6	16
	OVER 0.15T UP TO 0.24T	6	12
	OVER 0.24T UP TO 0.44T	6	6
	OVER 0.44T UP TO 0.60T	8	10*
	OVER 0.60T UP TO 0.77T	9	12*
	OVER 0.77T UP TO 0.97T	10	10*
	OVER 0.97T UP TO 1.21T	11	8*
	OVER 1.21T UP TO 1.44T	12	8*
	OVER 1.44T UP TO 1.68T	12	6*
	OVER 1.68T	12	4*

2.6 NOTES TO TABLE 2.1

A) THE DEPTH OF COMPACTED LAYER IS THE HEIGHT BY WHICH THE EMBANKMENT IS RAISED BY EACH SUCCESSIVE COMPACTED LAYER.

B) THE NUMBER OF PASSES IS THE NUMBER OF TIMES THAT EACH POINT ON THE SURFACE OF THE LAYER BEING COMPACTED HAS BEEN TRAVERSED BY THE ITEM OF COMPACTION PLANT.

C) THE COMPACTIVE EFFORT OF EACH COMPACTOR IS A FUNCTION OF THE MASS OF THE MACHINE AND THE COMPACTION PLANT IN TABLE 2.1 IS LISTED IN TERMS OF THEIR MASSES. THE MASS PER YARD WIDTH OF ROLL IS THE TOTAL MASS ON THE ROLL DIVIDED BY THE TOTAL ROLL WIDTH. WHERE A SMOOTH-WHEELED ROLLER HAS MORE THAN ONE AXLE. THE MACHINE SHALL BE ASSESSED ON THE BASIS OF THE AXLE GIVING THE HIGHEST VALUE OF MASS PER YARD WIDTH.

D) A TAMPING ROLLER, FOR THE PURPOSE OF THIS SPECIFICATION, IS A MACHINE WITH A ROLL OR ROLLS FROM WHICH 'FEET' PROJECT. THE PROJECTED END AREA OF EACH FOOT SHALL EXCEED 0.11SQ.FT AND THE SUM OF THE AREAS OF FEET SHALL EXCEED 15 PER CENT OF THE AREA OF THE CYLINDER SWEPT BY ENDS OF THE FEET. THE REQUIREMENTS FOR TAMPING ROLLERS APPLY TO MACHINES THAT HAVE 2 ROLLS IN TANDEM. IF ONLY ONE TAMPING ROLL TRAVERSES EACH POINT ON THE SURFACE OF THE LAYER ON ANY ONE PASS OF THE MACHINE, THE MINIMUM NUMBER OF PASSES SHALL BE TWICE THE NUMBER GIVEN IN TABLE 2.1

E) FOR PNEUMATIC-TYRED ROLLERS MASS PER WHEEL IS THE TOTAL MASS OF THE ROLLER DIVIDED BY THE NUMBER OF WHEELS.

F) IN ASSESSING THE NUMBER OF PASSES OF PNEUMATIC-TYRED ROLLER THE EFFECTIVE WIDTH SHALL BE THE SUM OF THE WIDTHS OF THE INDIVIDUAL WHEEL TRACKS TOGETHER WITH THE SUM OF THE SPACING NOT EXCEEDING 10 INCHES. WHERE THE SPACING EXCEEDS 10 INCHES THE EFFECTIVE WIDTH SHALL BE THE SUM OF THE WIDTHS OF THE INDIVIDUAL WHEEL TRACKS ONLY.

G) VIBRATING ROLLERS ARE SELF-PROPELLED OR TOWED SMOOTH WHEELED ROLLERS HAVING MEANS OF APPLYING MECHANICAL VIBRATION TO ONE OR MORE ROLLS.

H) THE REQUIREMENTS FOR VIBRATING ROLLERS ARE BASED ON THE USE OF THE LOWEST GEAR ON A SELF-PROPELLED MACHINE WITH MECHANICAL TRANSMISSION AND A SPEED OF 0.93 -1.55 MPH FOR A TOWED MACHINE, OR A SELF-PROPELLED MACHINE WITH HYDROSTATIC TRANSMISSION. IF HIGHER GEAR SPEEDS ARE USED AN INCREASED NUMBER OF PASSES SHALL BE PROVIDED IN PROPORTION TO THE INCREASE ON SPEED TO TRAVEL.

I) WHERE THE MECHANICAL VIBRATING IS APPLIED TO TWO ROLLS IN TANDEM, THE MINIMUM NUMBER OF PASSES SHALL BE HALF THE NUMBER GIVEN IN TABLE 2.1 FOR THE APPROPRIATE MASS PER YARD WIDTH OF THE ONE VIBRATING ROLL. IF ONE ROLL DIFFERS IN MASS PER YARD WIDTH FROM THE OTHER THE NUMBER OF PASSES SHALL BE CALCULATED AS FOR THE ROLL WITH THE SMALLEST VALUE. ALTERNATIVELY THE MACHINE MAY BE TREATED AS HAVING A SINGLE VIBRATING ROLL MISSING LINE WITH THE HIGHER VALUE.

J) VIBRATING TYPE ROLLERS OPERATING WITHOUT VIBRATION WILL BE CLASSIFIED AS SMOOTH-WHEELED ROLLERS.

K) VIBRATING ROLLERS SHALL BE OPERATED WITH THEIR VIBRATORY MECHANISM OPERATING ONLY AT THE FREQUENCY OF VIBRATION RECOMMENDED BY THE MANUFACTURERS. ALL SUCH ROLLERS SHALL BE EQUIPPED OR PROVIDED WITH A DEVICE AUTOMATICALLY INDICATING THE FREQUENCY AT WHICH THE MECHANISM IS OPERATING.

L) VIBRATING-PLATE COMPACTORS ARE MACHINES HAVING A BASE PLATE TO WHICH IS ATTACHED A SOURCE OF VIBRATION CONSISTING OF ONE OR TWO ECCENTRICALLY WEIGHTED SHAFTS.

M) THE MASS PER UNIT AREA OF BASE-PLATE OF A VIBRATING PLATE COMPACTOR IS CALCULATED BY DIVIDING THE TOTAL MASS OF THE MACHINE IN IT'S WORKING CONDITION BY IT'S AREA IN CONTACT WITH COMPACTED SOIL.

N) VIBRATING-PLATE COMPACTORS SHALL BE OPERATED AT THE FREQUENCY OF VIBRATION RECOMMENDED BY THE MANUFACTURERS. THEY SHALL NORMALLY BE OPERATED AT TRAVELLING SPEEDS OF LESS THAN 0.62MPH BUT IF HIGHER SPEEDS ARE NECESSARY THE NUMBER OF PASSES SHALL BE INCREASED IN PROPORTION TO THE INCREASE IN SPEED OF TRAVEL.

O) VIBRO-TAMPERS ARE MACHINES IN WHICH AN ENGINE-DRIVEN RECIPROCATING MECHANISM ACTS ON A SPRING SYSTEM THROUGH WHICH OSCILLATIONS ARE SET UP IN A BASE-PLATE.

P) POWER RAMMERS ARE MACHINES, WHICH ARE ACTUATED BY EXPLOSIONS IN AN INTERNAL COMBUSTION CYLINDER, EACH EXPLOSION BEING CONTROLLED MANUALLY BY THE OPERATOR.

Q) IN THE CASE OF POWER RAMMERS AND DROPPING WEIGHT COMPACTORS ONE PASS WILL BE CONSIDERED AS MADE WITH THE COMPACTING SHOE HAS MADE ON STRIKE ON THE AREA IN QUESTION.

R) FOR ITEMS MARKED * THE ROLLERS SHALL BE TOWED BY TRACK LAYING TRACTORS. SELF-PROPELLED ROLLERS ARE UNSUITABLE.

S) WHERE COMBINATIONS OF DIFFERENT TYPES OF CATEGORIES OF PLANT ARE USED, THE COMPACTION REQUIREMENTS SHALL BE DECIDED UPON BY THE PROJECT ENGINEER, IN ACCORDANCE WITH TABLE 2.1.

2.7 SUB-GRADE
AT SECTIONS TO BE RECONSTRUCTED OR WHERE CUTTING IS REQUIRED, THE EXISTING FORMATION SHALL BE SCARIFIED TO A DEPTH OF 6" BELOW FORMATION LEVEL.
THE SCARIFIED MATERIAL SHALL THEN BE SHAPED AND ROUGH GRADED, WATERED AND COMPACTED IN ACCORDANCE WITH TAB 6.1 AFTER HARD PLANNING TO ACHIEVE THE REQUIRED CROSS-FALL A FURTHER ROLLING OF ANY LOOSE MATERIAL SHALL BE CARRIED OUT UNTIL A SMOOTH SURFACE LAYER IS ACHIEVED, EXCEPT FOR VERGES. THEY SHALL BE LEFT WITH A ROUGH SURFACE TO RECEIVE THE SUBSEQUENT BASE LAYER.

2.8 BACKFILLING TO RETAINING WALLS
BACKFILL TO RETAINING WALLS SHALL BE PLACED IN LAYERS NOT EXCEEDING NINE INCHES (9") THICK AND THOROUGHLY, BUT NOT EXCESSIVELY, COMPACTED. IF NECESSARY THE MATERIAL SHALL BE WATERED.

2.9 SETTLEMENT
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING GOOD TO THE SATISFACTION OF THE PROJECT ENGINEER ALL SETTLEMENT IN FILLING AND IN BACKFILLING THAT MAY OCCUR UP TO THE END OF THE PERIOD OF MAINTENANCE.

2.10 EARTHWORK TO BE KEPT FREE OF WATER
THE CONTRACTOR SHALL PROVIDE WHERE NECESSARY TEMPORARY WATER COURSE, DITCHES, DRAINS, PUMPING OR OTHER MEANS OF MAINTAINING THE EARTHWORKS FREE OF WATER. SUCH WORK SHALL INCLUDE CARRYING OUT THE WORK OF FORMING THE CUTTINGS AND EMBANKMENTS IN SUCH A MANNER THAT THEIR SURFACES HAVE AT ALL TIMES A SUFFICIENT MINIMUM CROSS FALL AND, WHERE PRACTICABLE, A SUFFICIENT LONGITUDINAL GRADIENT TO ENABLE THEM TO SHED WATER AND PREVENT PONDING.

3 ROAD WORK
3.1 ALL MATERIAL WITHIN THE ROAD ALLOWANCE SHALL BE COMPACTED TO THE SATISFACTION OF THE PROJECT ENGINEER.
3.2 MINIMUM ACCEPTABLE COMPACTION REQUIREMENTS SHALL BE AS FOLLOWS:
3.2.1 ROAD SUB-GRADE 24" BELOW ROAD SUB-BASE OR GREATER: 95% STANDARD PROCTOR DENSITY
3.2.2 ROAD SUB-GRADE LESS THAN 24" BELOW ROAD SUB-BASE: 98% STANDARD PROCTOR DENSITY
3.2.3 ROAD SUB-BASE & BASE: 100% STANDARD PROCTOR DENSITY
D, ASPHALT BASE OR SURFACE COURSE: 97% OF MIX DESIGN DENSITY REGARDLESS OF DEPTH OF ASPHALT BEING PLACED.

3.3. SUB-GRADE PREPARATION: THE ENTIRE ROAD RESERVATION SHALL BE RIPPED ALL OVER TO A DEPTH OF 6" BELOW FORMATION LEVEL; THE RIPPED STONE SHALL THEN BE WELL WALKED IN UNTIL ALL PASS A 4" SCREEN. THE RIPPED STONE SHALL THEN BE ROUGH GRADED, SHAPED, WATERED AND THOROUGHLY COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY. A FURTHER ROLLING OF ANY LOOSE MATERIAL SHALL BE CARRIED OUT UNTIL A SMOOTH SURFACE IS ACHIEVED.

3.4 WHERE UNSTABLE OR ORGANIC SOIL IS FOUND TO EXIST BELOW THE PROPOSED ROAD SUB-BASE, ALL SUCH SOIL AND MATERIAL SHALL BE REMOVED TO A MINIMUM DEPTH OF 4' BELOW FINISH GRADE AND REPLACED WITH APPROVED MATERIAL AS DIRECTED BY THE PROJECT ENGINEER.

3.5 SUB-BASE AND BASE PREPARATION: CLEAN WELL-GRADED STONE FILL PASSING 2" MESH SHALL BE PLACED IN TWO LAYERS OF 4" EACH AND SEPARATELY COMPACTED TO SPECIFIED DENSITY AND PROPER CROSS FALL

3.6 ASPHALT COURSE: FLORIDA TYPE S-I AND S-III SPECIFICATION, AS PER FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 1982. A 1½" STRUCTURAL COURSE AND A ¾" SURFACE/FRICTION COURSE SHALL BE PLACED AND COMPACTED ACCORDING TO SPECIFIED DENSITY AND PROPER CROSS FALL.

REVISIONS

NO.	DATE	REMARKS

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CRUZ BAY-VIFEMS STATION

ESTATE ENIGHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

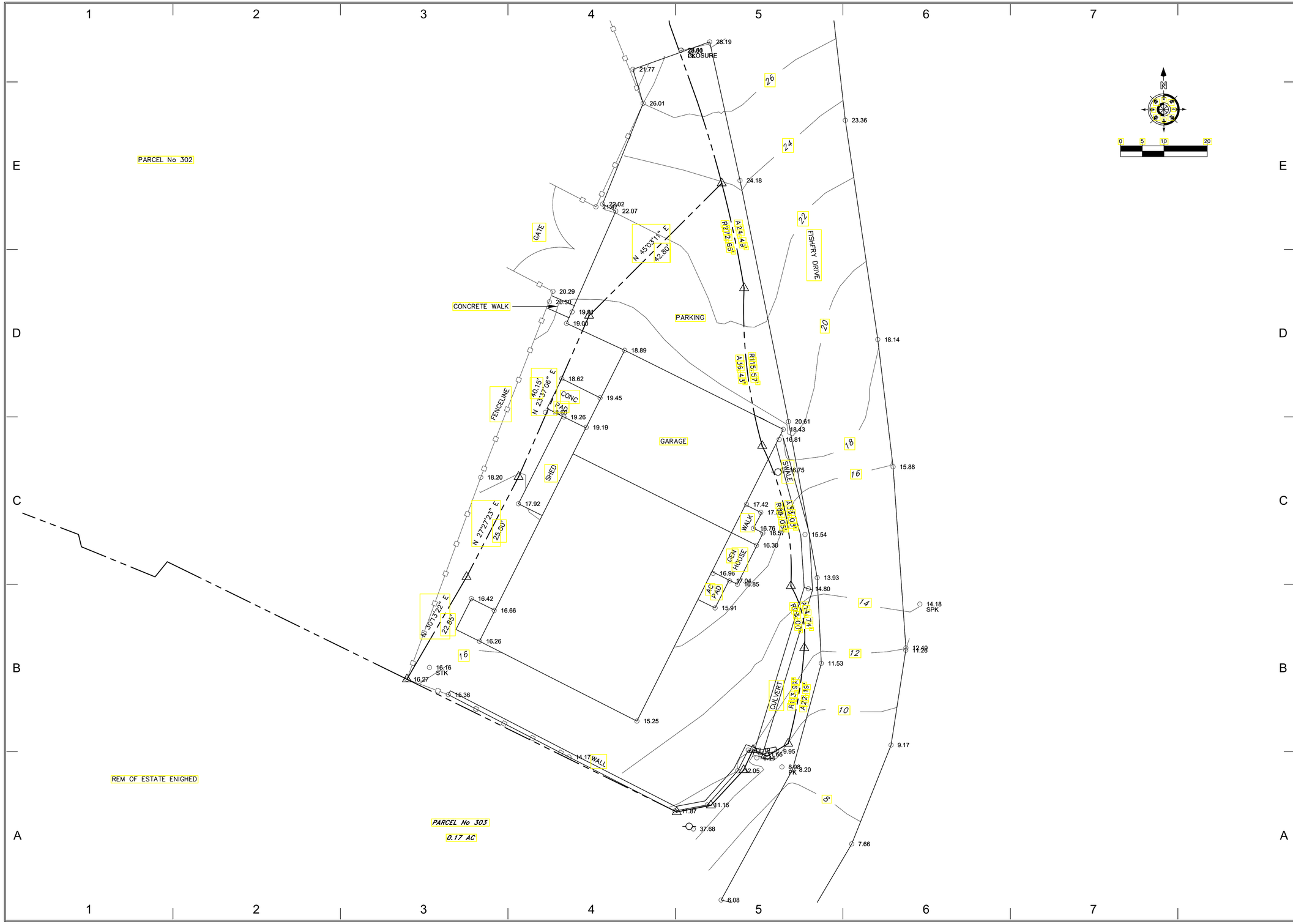
DATE: March, 2025
DRAWN BY: DC
CHECKED BY: DC
APPROVED BY: DC

PROJECT NO.:
CONTRACT NO.:

SHEET NO.: C002

GENERAL NOTES

DAMIAN CARTWRIGHT 26851-IB



REVISIONS

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CRUZ BAY-VIFEMS STATION

ESTATE ENIGHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	March, 2025
DRAWN BY:	DC
CHECKED BY:	DC
APPROVED BY:	DC

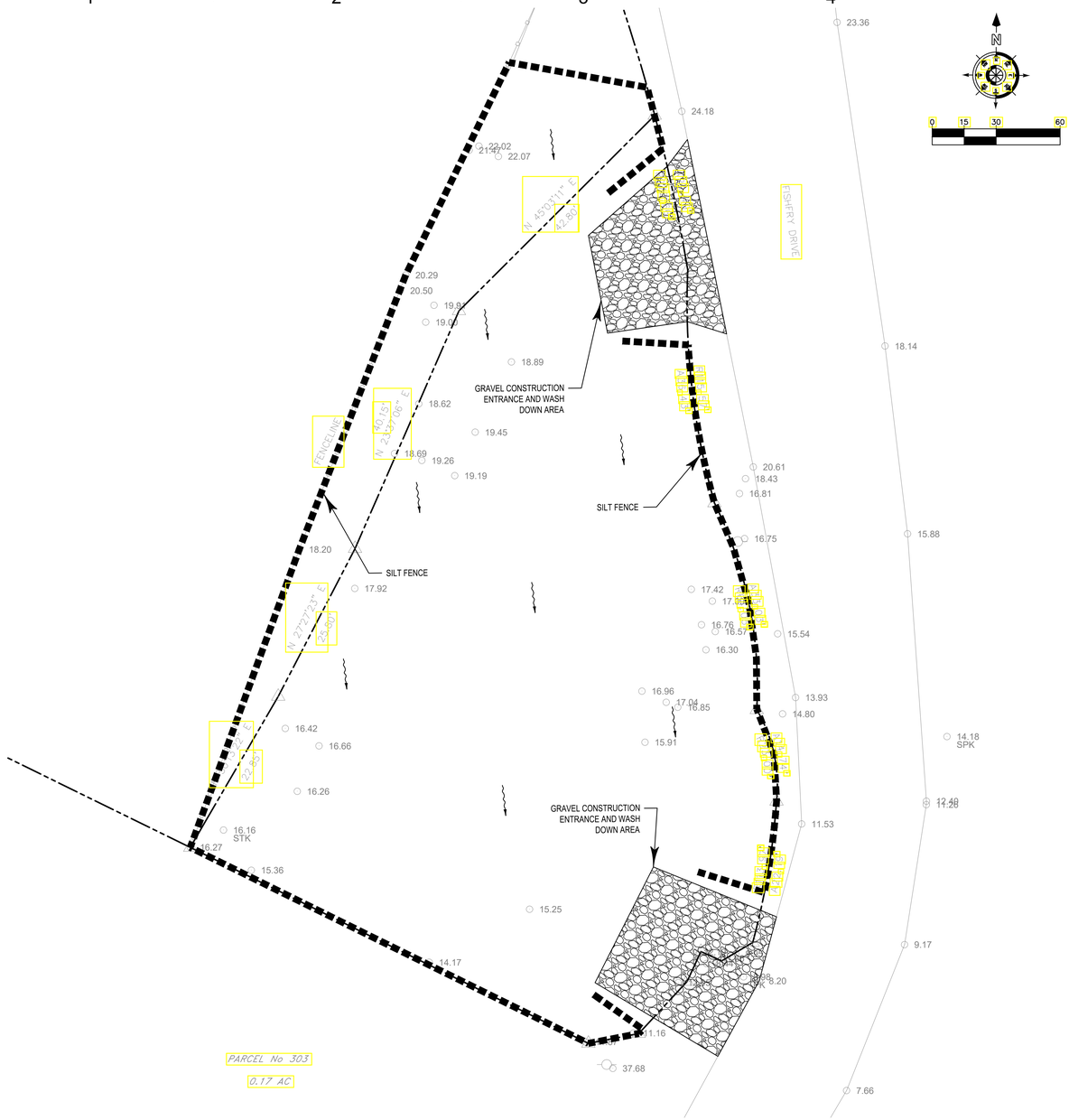
PROJECT NO.:

CONTRACT NO.:

SHEET NO.:
C003

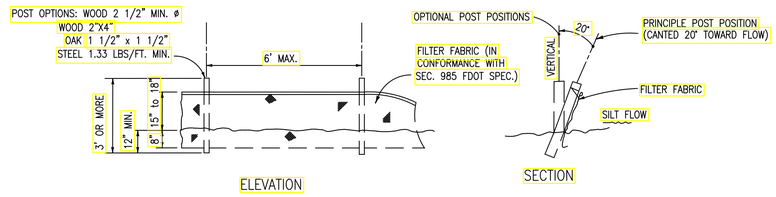
EXISTING CONDITION PLAN

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-18
U.S. VIRGIN ISLANDS



LEGEND

- PROPERTY LINE
- SILT FENCE
- DRAINAGE FLOW
- GRAVEL CONSTRUCTION ENTRANCE AND WASH DOWN AREA

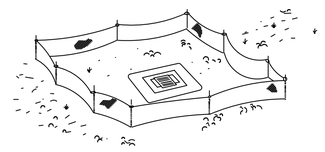


ELEVATION

SECTION

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

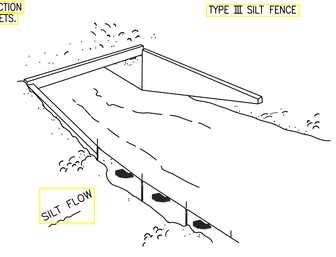
TYPE III SILT FENCE



TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.

NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART I , SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3.

TYPE III SILT FENCE



TYPE III SILT FENCE

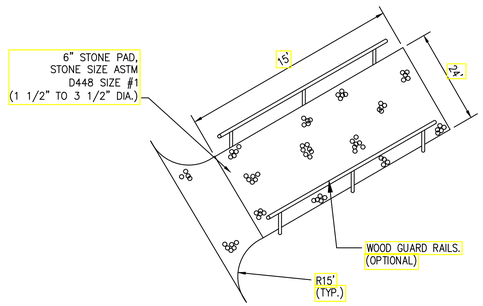
TYPE III SILT FENCE

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

TYPE III SILT FENCE
AS PER FDOT STANDARD INDEX #102

DETAIL 1
SCALE



CONSTRUCTION ENTRANCE

DETAIL 2
SCALE

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

BUILDTEC
P.O. BOX 8269
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telephone: 340.777.1600
e-mail: jarediandesigngroup@gmail.com
website: www.jaredian.com

CRUZ BAY-VIFEMS STATION

ESTATE ENIGHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

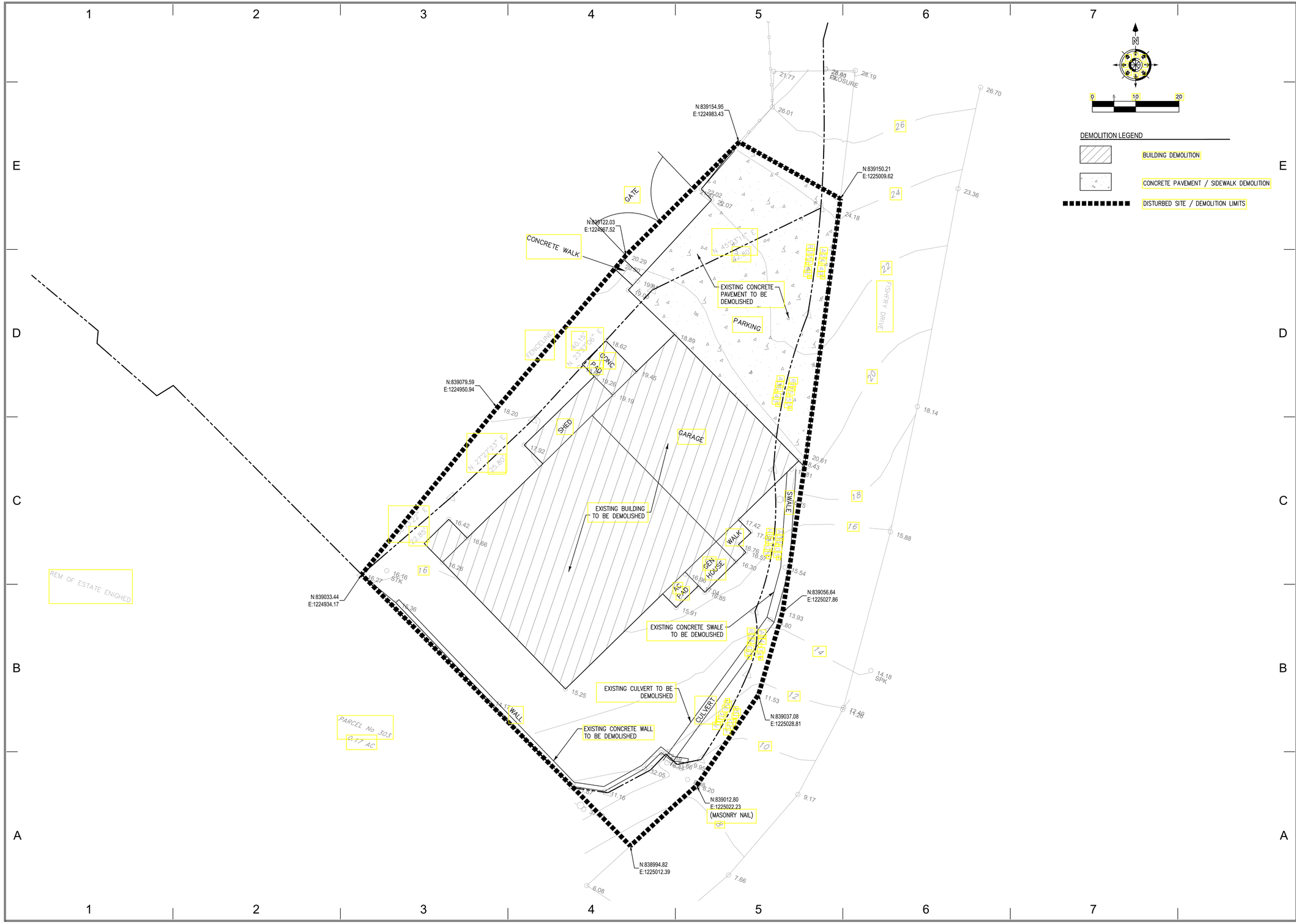
DATE: March, 2025
DRAWN BY: DC
CHECKED BY: DC
APPROVED BY: DC

PROJECT NO.:
CONTRACT NO.:

SHEET NO.: C004

STORMWATER POLLUTION PREVENTION PLAN & DETAILS

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-1B
U.S. VIRGIN ISLANDS



REVISIONS

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PROJECT NO.:

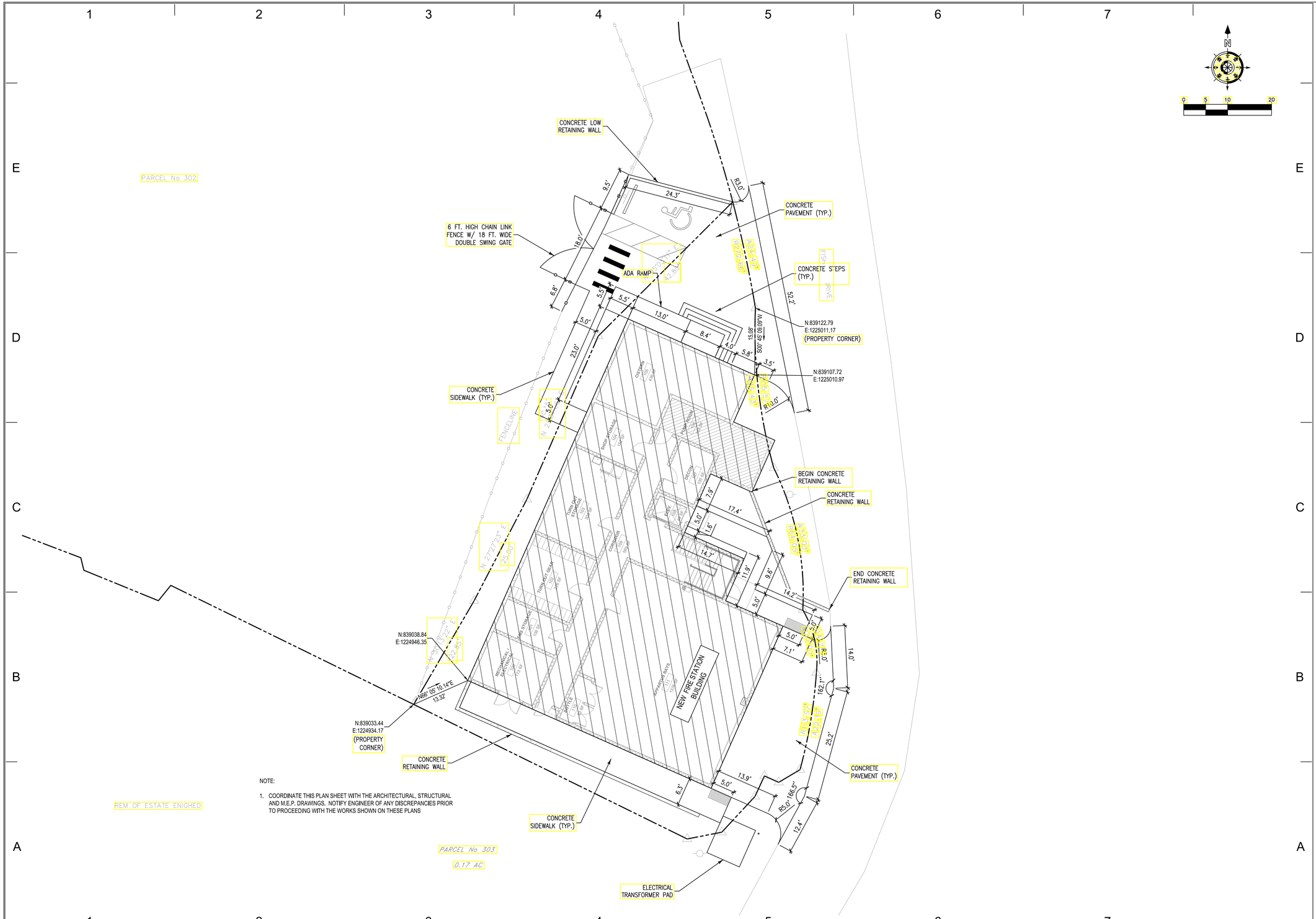
CONTRACT NO.:

SHEET NO.:

DEMOLITION PLAN

C005

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-18
U.S. VIRGIN ISLANDS



NOTE:

1. COORDINATE THIS PLAN SHEET WITH THE ARCHITECTURAL, STRUCTURAL AND M.E.P. DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORKS SHOWN ON THESE PLANS

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	March, 2025
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PROJECT NO.:

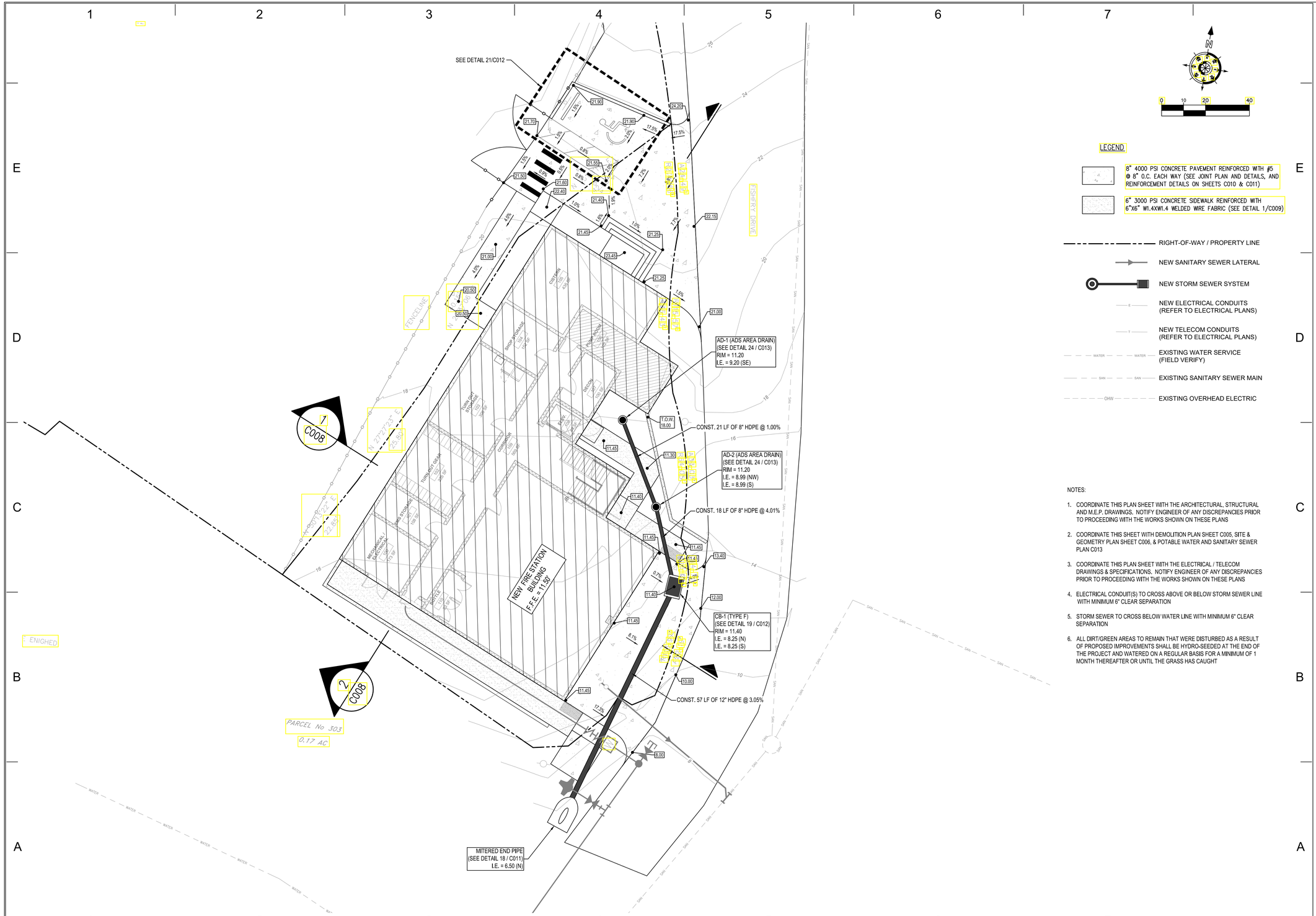
CONTRACT NO.:

SHEET NO.:

SITE & GEOMETRY PLAN

C006

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-IB
U.S. VIRGIN ISLANDS



0 10 20 40

LEGEND

- 8" 4000 PSI CONCRETE PAVEMENT REINFORCED WITH #5 @ 8" O.C. EACH WAY (SEE JOINT PLAN AND DETAILS, AND REINFORCEMENT DETAILS ON SHEETS C010 & C011)
- 6" 3000 PSI CONCRETE SIDEWALK REINFORCED WITH 6"X6" W1.4XW1.4 WELDED WIRE FABRIC (SEE DETAIL 1/C009)
- RIGHT-OF-WAY / PROPERTY LINE
- NEW SANITARY SEWER LATERAL
- NEW STORM SEWER SYSTEM
- NEW ELECTRICAL CONDUITS (REFER TO ELECTRICAL PLANS)
- NEW TELECOM CONDUITS (REFER TO ELECTRICAL PLANS)
- EXISTING WATER SERVICE (FIELD VERIFY)
- EXISTING SANITARY SEWER MAIN
- EXISTING OVERHEAD ELECTRIC

NOTES:

1. COORDINATE THIS PLAN SHEET WITH THE ARCHITECTURAL, STRUCTURAL AND M.E.P. DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORKS SHOWN ON THESE PLANS
2. COORDINATE THIS SHEET WITH DEMOLITION PLAN SHEET C005, SITE & GEOMETRY PLAN SHEET C006, & POTABLE WATER AND SANITARY SEWER PLAN C013
3. COORDINATE THIS PLAN SHEET WITH THE ELECTRICAL / TELECOM DRAWINGS & SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORKS SHOWN ON THESE PLANS
4. ELECTRICAL CONDUIT(S) TO CROSS ABOVE OR BELOW STORM SEWER LINE WITH MINIMUM 6" CLEAR SEPARATION
5. STORM SEWER TO CROSS BELOW WATER LINE WITH MINIMUM 6" CLEAR SEPARATION
6. ALL DIRT/GREEN AREAS TO REMAIN THAT WERE DISTURBED AS A RESULT OF PROPOSED IMPROVEMENTS SHALL BE HYDRO-SEEDED AT THE END OF THE PROJECT AND WATERED ON A REGULAR BASIS FOR A MINIMUM OF 1 MONTH THEREAFTER OR UNTIL THE GRASS HAS CAUGHT

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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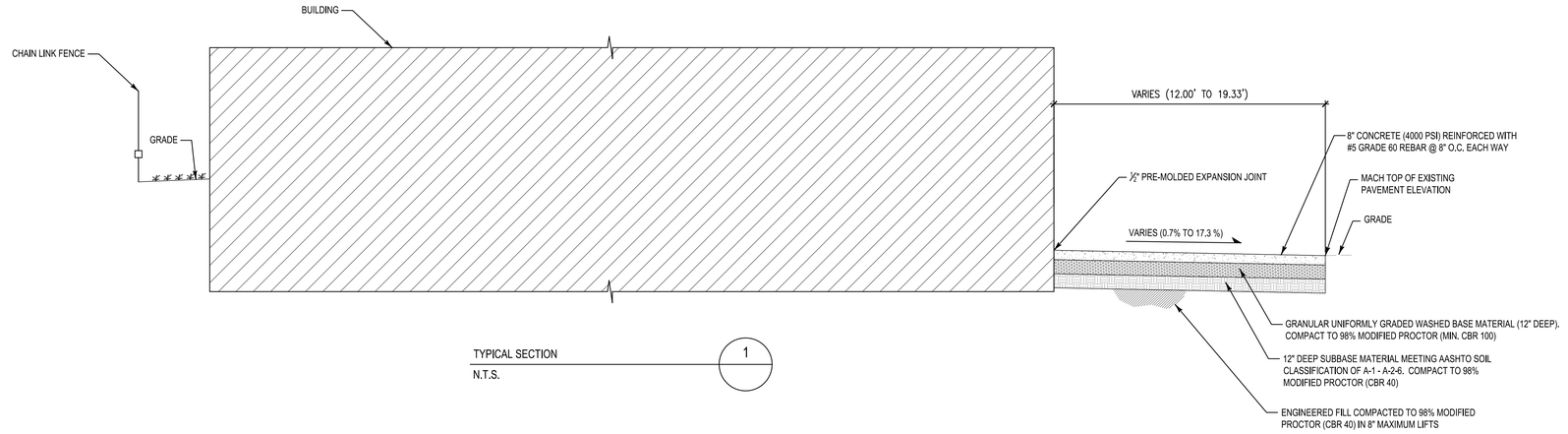
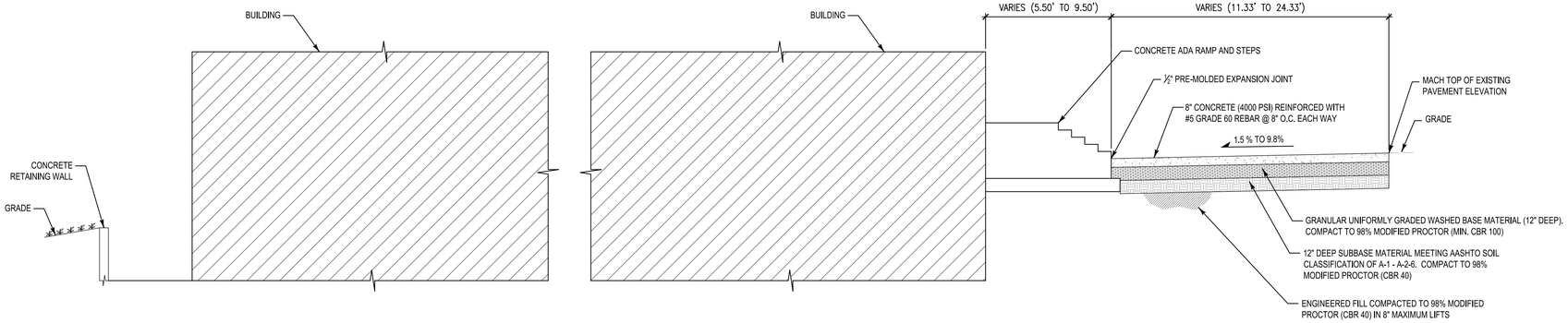
SHEET NO.:
PAVING, GRADING & DRAINAGE PLAN

C007

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-1B
VIRGIN ISLANDS



TYPICAL SECTION 1
N.T.S.



TYPICAL SECTION 2
N.T.S.

REVISIONS

NO.	DATE	REMARKS

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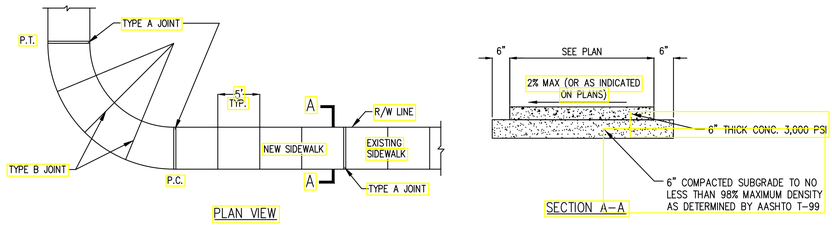
PROJECT NO.:
CONTRACT NO.:

SHEET NO.:
TYPICAL SECTIONS

C008

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851 - IB
U.S. VIRGIN ISLANDS



PLAN VIEW

SECTION A–A

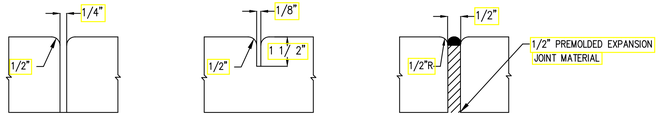
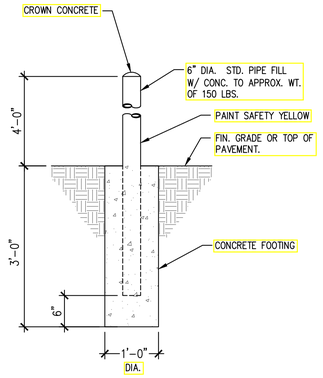


TABLE OF SIDEWALK THICKNESS – T	
LOCATION	
STANDARD SIDEWALK	6"

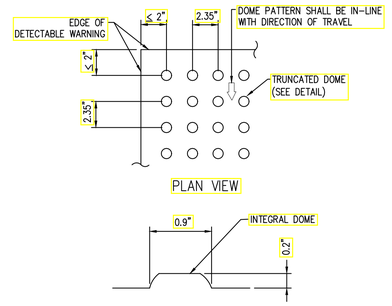
TABLE OF SIDEWALK JOINTS	
	LOCATION
A	P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALK.
B	5'-0" CENTER TO CENTER ON SIDEWALK.
C	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES

NOTES:
1. PLACE W1.4XW1.4 6"x6" WIRE MESH IN THE SIDEWALK
2. STANDARD SIDEWALK TO BE 4000 PSI @ 28 DAYS
3. CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE, OR OTHER APPROVED METHOD.
4. TOOLED JOINTS TO OCCUR AT INTERVALS EQUAL TO WIDTH OF SIDEWALK
5. SIDEWALK TO HAVE BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL.
6. CONTRACTOR SHALL REPAIR AND RESTORE ALL AREAS WITHIN THE ABUTTING R/W DISTURBED DURING CONSTRUCTION TO A CONDITION EQUAL TO OR BETTER THAN EXISTING AT NO ADDITIONAL COST TO THE OWNER.
7. ALL DEMOLISHED SIDEWALKS AND ADDITIONS ARE TO BE REPLACED WITH CONCRETE SIDEWALK TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
8. ALL DEMOLISHED SIDEWALK RAMPS ARE TO BE REPLACED AS PER ADA STANDARDS AND INCLUDE ADA COMPLIANT DETECTABLE WARNINGS AT NO ADDITIONAL COST TO THE OWNER.

1 SIDEWALK DETAIL
N.T.S.



2 BOLLARD
N.T.S.



3 DETECTABLE WARNING
N.T.S.

NOTE:

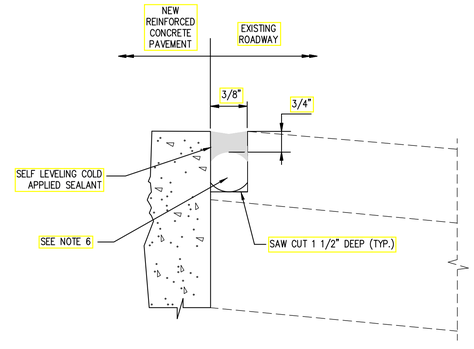
1. CURB RAMP RUNNING SLOPES SHALL NOT BE STEEPER THAN 1:12 AND CROSS SLOPE SHALL BE 0.02 OR FLATTER.

2. DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED BY TEXTURING OR APPLYING A TRUNCATED DOME MATERIAL IN CONFORMANCE WITH THE U.S. DEPARTMENT OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN, A.D.A. ACCESSIBILITY GUIDELINES, SECTION 4.29.2. TRANSITION SLOPES ARE NOT TO HAVE DETECTABLE WARNINGS.

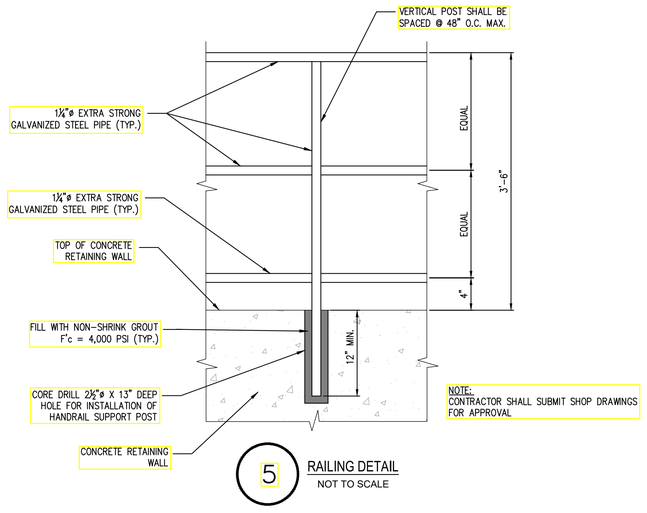
3. WHERE A CURB RAMP IS CONSTRUCTED WITHIN AN EXISTING CURB, CURB AND GUTTER AND/OR SIDEWALK, THE EXISTING CURB OR CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE CURB TRANSITIONS OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB AND GUTTER IS LESS THAN 5' LONG. THE EXISTING SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE TRANSITION SLOPE WALK AROUND OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5'.

4. WHERE ADJACENT WALKING SURFACES ARE COLORED OR ARE CONSTRUCTED WITH MATERIALS OTHER THAN STANDARD CLASS I PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH SECTION 522 OF THE SPECIFICATIONS, THE PLAN MUST PROVIDE FOR DETECTABLE WARNING SURFACE COLORS OR MATERIALS THAT PROVIDE THE NECESSARY CONTRAST, EITHER DARK-ON-LIGHT OR LIGHT-ON-DARK. (SAFETY YELLOW OR BRICK RED)

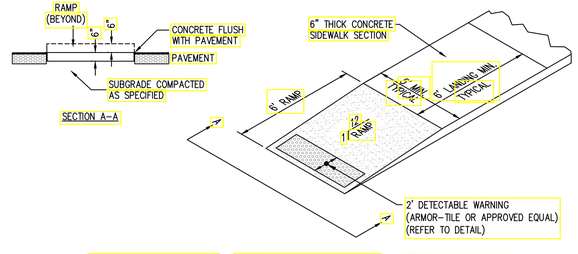
5. RECOMMENDED MANUFACTURER: ENGINEERED PLASTICS, INC. (ARMOR TILE) OLYMPIC TOWERS, 300 PEARL STREET, SUITE 200, BUFFALO, NY 14202. PHONE: (800) 682-2525



4 ASPHALT/CONCRETE PAVEMENT JOINT DETAIL
N.T.S.



5 RAILING DETAIL
NOT TO SCALE



NOTE 1:
REFERENCE FDOT INDEX 304, PAGE 1, GENERAL AND DESIGN NOTES FOR RAMPS IN R.O.W.

NOTE 2:
CONSTRUCT RAMP TO LEAST POSSIBLE SLOPE (MAX = 1:12). CROSS SLOPE OF RAMP AND LANDING SHALL NOT EXCEED 1:50.

NOTE 3:
RAMP GREATER THAN A 6" RISE REQUIRES HANDRAILS.

6 HANDICAP RAMP
N.T.S.

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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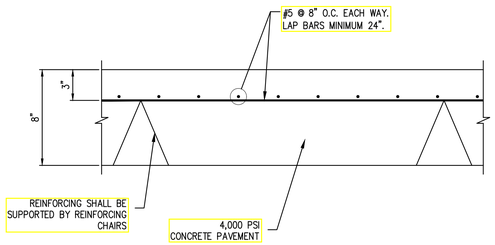
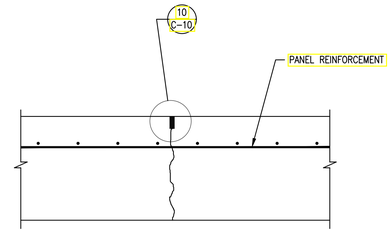
PAVING, GRADING AND DRAINAGE DETAILS

C009

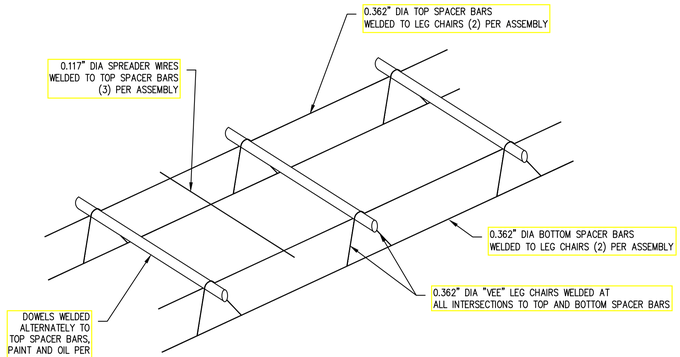


MATERIAL SCHEDULE			
ITEM	SIZE	STANDARD	REMARKS
DOWELS	1 1/4 INCH DIA x 18 INCHES LONG @ 12 INCHES O.C.	ASTM A 615 GRADE 60	EPOXY COATED, INCLUDING ENDS, AASHTO M254
REINFORCED SLABS	#5 REBAR @ 8" O.C. EACH WAY	ASTM A 615 GRADE 60	USE 24 INCH OVERLAP
EXPANSION BOARD	1 INCH WIDTH x DEPTH REQUIRED	ASTM D 1751	USE REMOVABLE CAP FOR JOINT SEAL
DOWEL EPOXY	AS REQUIRED	ASTM C 881, TYPE IV, GRADE 3	CLASS C FOR INSTALLATION ABOVE 60 F CLASS B FOR INSTALLATION 40 F TO 60 F CLASS A FOR INSTALLATION BELOW 40 F
SILICONE SEALANT	SEE DETAILS	ASTM D 5893	TOOLED

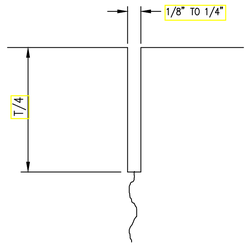
7 REINFORCED CONCRETE PAVEMENT SECTION
N.T.S.



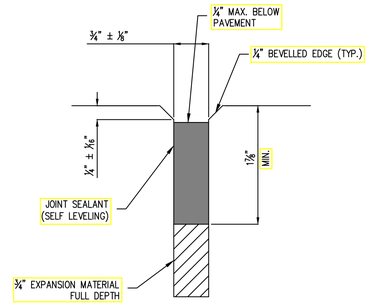
8 TYPE D – DUMMY TRANSVERSE CONTRACTION JOINT
N.T.S.



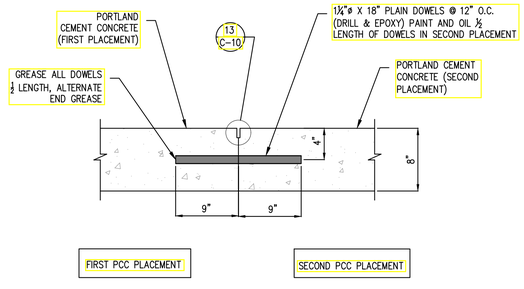
9 TYPICAL DOWEL AND TIE BAR BASKET
N.T.S.



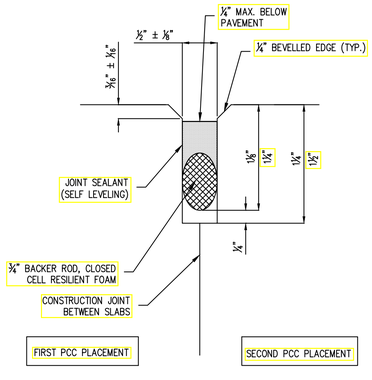
10 INITIAL SAWCUT DETAIL FOR CONTRACTION JOINTS
N.T.S.



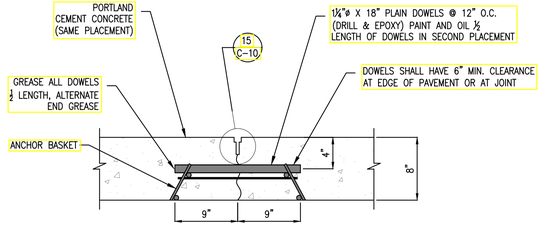
11 EXPANSION/ISOLATION JOINT
N.T.S.



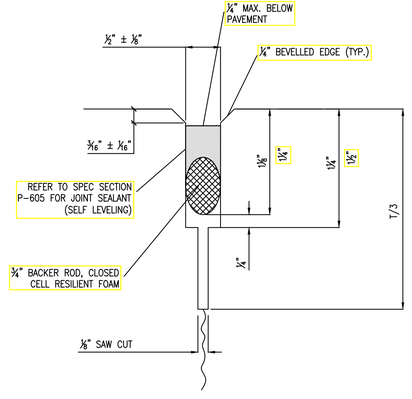
12 TYPE 1 – CONTRACTION JOINT (DOWELED)
N.T.S.



13 TYPE 1 – CONTRACTION JOINT
N.T.S.



14 TYPE 2 – CONTRACTION JOINT (DOWELED)
N.T.S.



15 TYPE 2 – CONTRACTION JOINT
N.T.S.

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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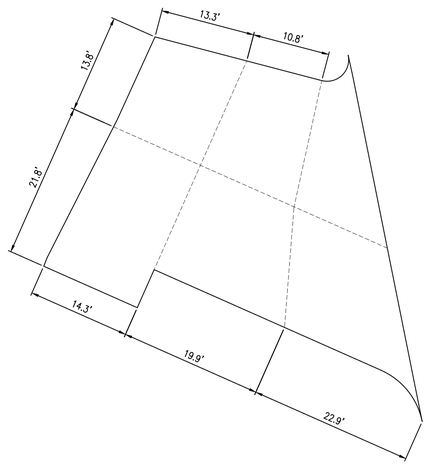
SHEET NO.:
PAVING, GRADING AND DRAINAGE DETAILS
C010

DAMIAN CARTWRIGHT 28851-IB



JOINT SEALING

1. ALL CONCRETE SURFACES AND JOINTS SHALL BE FLUSHED CLEAN WITH WATER AFTER BOTH INITIAL AND FINAL SAW– CUTS, PRIOR TO SAWCUT SLURRY DRYING.
2. AFTER SECOND SAWCUT, JOINT FACES SHALL BE SAND BLASTED AND AIR–BLOWN.
3. SEAL RESERVOIR SHALL BE FORMED USING SECOND SAWCUT. SHOULDERED BLADE SHALL NOT BE USED WITH INITIAL SAWCUT.
4. INSERT TEMPORARY BACKER ROD AFTER INITIAL SAWCUT TO PREVENT DEBRIS INTRUSION.
5. FOR ALL JOINTS THE BACKER ROD MATERIAL SHALL BE COMPATIBLE WITH THE COLD POURED SEALANT AND SLIGHTLY OVERSIZED TO PREVENT MOVEMENT DURING THE JOINT SEALANT OPERATION.
6. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED ONLY WHEN APPROVED BY THE ENGINEER.

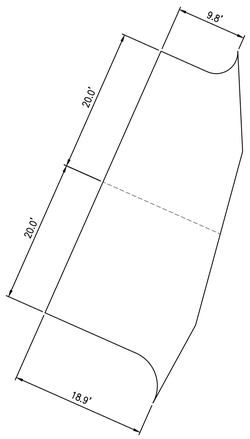
DOWEL AND TIE BAR NOTES

1. DOWEL OR TIE BAR INSERTERS SHALL NOT BE USED.
2. DRILLING METHOD SHALL MAINTAIN DRILL HOLES PARALLEL TO CONCRETE SURFACE AND NORMAL TO JOINT LINE WITHIN 1/4" ± AT END OF DOWEL BAR. USE GANG DRILL WITH 3 OR MORE DRILLS. DRILL HOLE MAXIMUM DEVIATION SHALL NOT EXCEED 1" HORIZONTAL HOLE DIAMETER TO BE APPROXIMATELY 1/8" – 1/4" LARGER THAN DOWEL. MINIMUM THREE DAYS CURE TIME AND 300 PSI FLEXURAL STRENGTH REQUIRED FOR DRILLING NEW CONCRETE.
3. AFTER DRILLING IS COMPLETE, AND PRIOR TO INSTALLATION OF DOWELS, THOROUGHLY CLEAN HOLES BY FLUSHING. ALLOW TO DRY. AIR BLOW TO REMOVE DRILLING DUST, CONCRETE CHIPS, AND ANY MATERIAL DETRIMENTAL TO DEVELOPING BOND.
4. INSERT EPOXY INTO BACK OF DOWEL HOLE BY INJECTION NOZZLE WITH SUFFICIENT EPOXY PLACED SO SLIGHT AMOUNT FORCED OUT WHEN DOWEL INSERTED AND TAPPED TO CORRECT POSITION. DOWEL SHALL BE TURNED WHEN INSERTED AND EPOXY SHALL BE SOLID AROUND BARS WITH NO VOIDS. INSTALL PLASTIC DOWEL RINGS TO RETAIN EPOXY. SMALL WEDGES MAY BE USED TO SUPPORT DOWEL IN CORRECT ALIGNMENT UNTIL EPOXY HARDENS. SUBMIT PROPOSED EPOXY INFORMATION FOR APPROVAL PRIOR TO STARTING WORK.
5. "T" = THICKNESS OF NEW CONCRETE PAVEMENT
6. "d" = DOWEL OR TIE–BAR DIAMETER

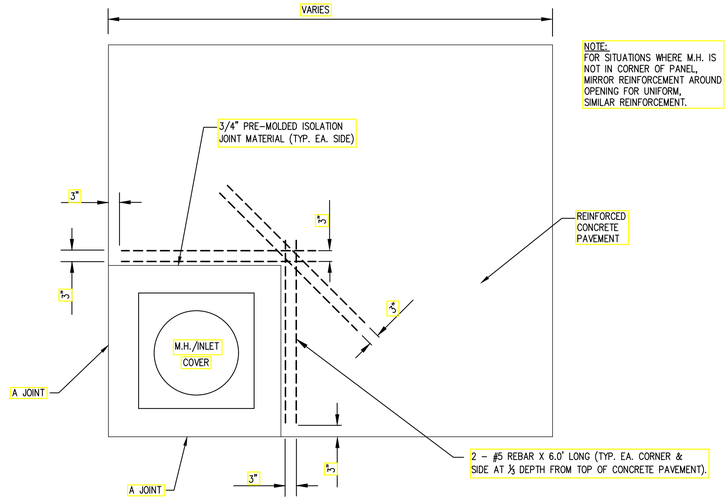
LEGEND

TYPE 1 / TYPE 2 CONTRACTION JOINT

TYPE D DUMMY TRANSVERSE CONTRACTION JOINT

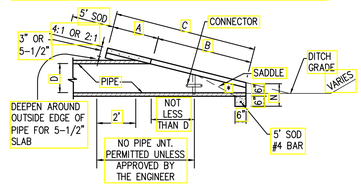


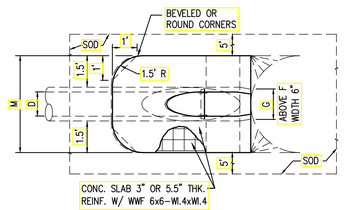
16 CONCRETE PAVEMENT JOINTING PLAN
N.T.S.



17 REINFORCING STEEL LAYOUT IN PAVEMENT SURROUNDING INLETS DETAIL
N.T.S.

STORM SEWER PIPE LENGTHS NOTED IN THE DRAWINGS REFLECT ONLY THE PIPE ITSELF. WHERE A MITERED END SECTION IS INSTALLED ON SAID PIPE, ITS ADDITIONAL PIPE LENGTH SHALL BE INCLUDED IN THE COST OF THE MITERED END SECTION.





18 MITERED END SECTION (MES)
N.T.S.

		DIMENSIONS AND QUANTITIES									
									M		
	D	A	B	C	E	F	G	SINGLE PIPE	DOUBLE PIPE	TRIPLE PIPE	QUAD. PIPE
2:1 SLOPE	15"	1.92'	2.18'	4.10'	2.06'	5'	1.22'	4.63'	7.21'	9.79'	12.37'
	18"	1.97'	2.74'	4.71'	2.56'	6'	1.41'	4.92'	7.75'	10.58'	13.42'
	24"	2.06'	3.85'	5.91'	3.56'	7'	1.73'	5.50'	8.92'	12.33'	15.75'
	30"	2.15'	4.95'	7.10'	4.56'	8'	2.00'	6.08'	10.33'	14.58'	18.83'
	36"	2.25'	6.08'	8.33'	5.56'	9'	2.24'	6.67'	11.75'	16.83'	21.92'
	42"	2.34'	7.21'	9.55'	6.56'	10'	2.45'	7.25'	13.25'	19.25'	25.25'
	48"	2.43'	8.33'	10.76'	7.56'	11'	2.65'	7.83'	14.58'	21.33'	28.08'
	54"	2.52'	9.44'	11.96'	8.56'	12'	2.83'	8.42'	16.08'	23.75'	31.42'
	60"	2.62'	10.56'	13.18'	9.56'	14'	3.00'	9.00'	17.50'	26.00'	34.50'
	66"	2.71'	11.68'	14.39'	10.56'	15'	3.18'	9.58'	18.75'	27.92'	37.08'
	72"	2.80'	12.80'	15.60'	11.56'	16'	3.30'	10.16'	20.16'	30.16'	40.16'
4:1 SLOPE	15"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.63'	7.21'	9.79'	12.37'
	18"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.92'	7.75'	10.58'	13.42'
	24"	2.53'	7.18'	9.71'	7.03'	11'	1.73'	5.50'	8.92'	12.33'	15.75'
	30"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	6.08'	10.33'	14.58'	18.83'
	36"	2.87'	11.31'	14.18'	11.03'	15'	2.24'	6.67'	11.75'	16.83'	21.92'
	42"	3.05'	13.37'	16.42'	13.03'	17'	2.45'	7.25'	13.25'	19.25'	25.25'
	48"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	7.83'	14.58'	21.33'	28.08'
	54"	3.39'	17.49'	20.88'	17.03'	21'	2.83'	8.42'	16.08'	23.75'	31.42'
	60"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	9.00'	17.50'	26.00'	34.50'
	66"	3.73'	21.62'	25.35'	21.03'	25'	3.18'	9.58'	18.75'	27.92'	37.08'
	72"	3.91'	22.68'	26.59'	23.03'	27'	3.30'	10.16'	20.16'	30.16'	40.16'

• SLOPE– 4:1 MITER – TO ℄ PIPE FOR PIPES 18" AND SMALLER
2:1 FOR PIPES 24" AND LARGER
2:1 MITER – TO ℄ PIPE FOR PIPES 18" AND SMALLER
1:1 FOR PIPES 24" AND LARGER

REVISIONS

NO.	DATE	REMARKS

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CRUZ BAY-VIFEMS STATION

ESTATE ENIGHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

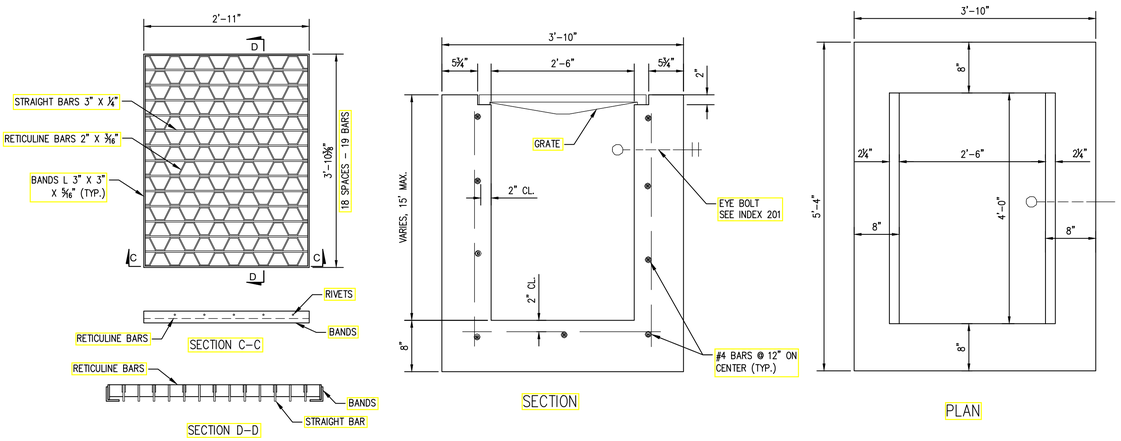
DATE: March, 2025
DRAWN BY: DC
CHECKED BY: DC
APPROVED BY: DC

PROJECT NO.:
CONTRACT NO.:

SHEET NO.:
PAVING, GRADING AND DRAINAGE DETAILS

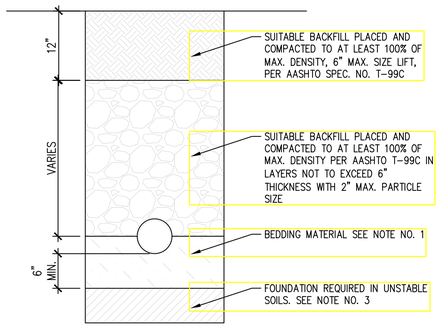
C011

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-19
U.S. VIRGIN ISLANDS



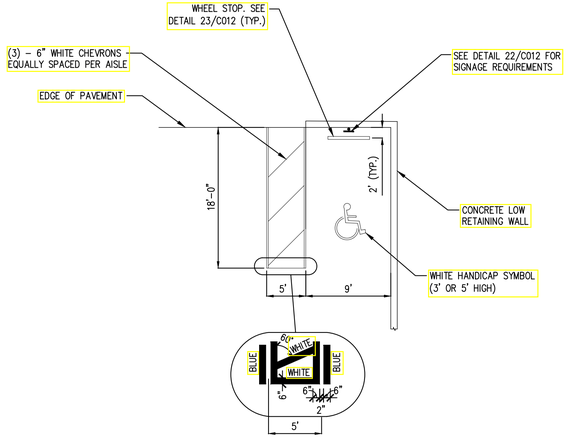
RECOMMENDED MAXIMUM PIPE SIZE:	
2'-6" WALL	18" PIPE
4'-0" WALL	30" PIPE

19 TYPE F INLET
NOT TO SCALE



NOTES:
1. UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAXIMUM PARTICLE SIZE, COMPACTED TO AT LEAST 100% OF MAX. DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-99C
2. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
3. WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED AS DETERMINED BY THE ENGINEER.

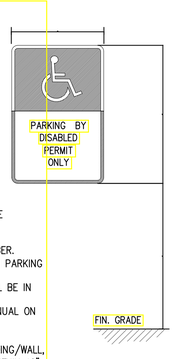
20 TYPICAL TRENCH BACKFILL
NOT TO SCALE



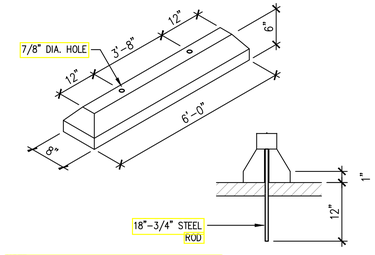
NOTE: FINISHED GRADES OF PAVEMENT IN HC PARKING AND ACCESSIBILITY AISLE SHALL NOT EXCEED 1:50 SLOPE IN ANY DIRECTION. SEE PLAN FOR STYLE OF HANDICAP RAMP
HANDICAP STRIPING SHALL CONFORM TO FDOT INDEX 17346 (LATEST EDITION)

21 HANDICAP STRIPING
N.T.S.

NOTES:
1. ALL LETTERS ARE 1" SERIES "C" PER MUTCD.
2. TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
4. FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND & BORDER. CONTRACTOR SHALL VERIFY FINE AMOUNT & ORDINANCE NUMBER.
5. ONE(1) SIGN REQUIRED FOR EACH PARKING SPACE.
6. INSTALLED HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
7. SIGN MAY BE MOUNTED ON BUILDING/WALL, AT PROPER HEIGHT, IF ALIGNED WITHIN 12" OF CENTER OF PARKING SPACE.



22 HANDICAP SIGN
N.T.S.



NOTE:
CONCRETE SHALL BE 3,500 PSI 28 DAY STRENGTH

23 WHEEL STOP
N.T.S.

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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website: www.jaredian.com

CRUZ BAY-VIFEMS STATION

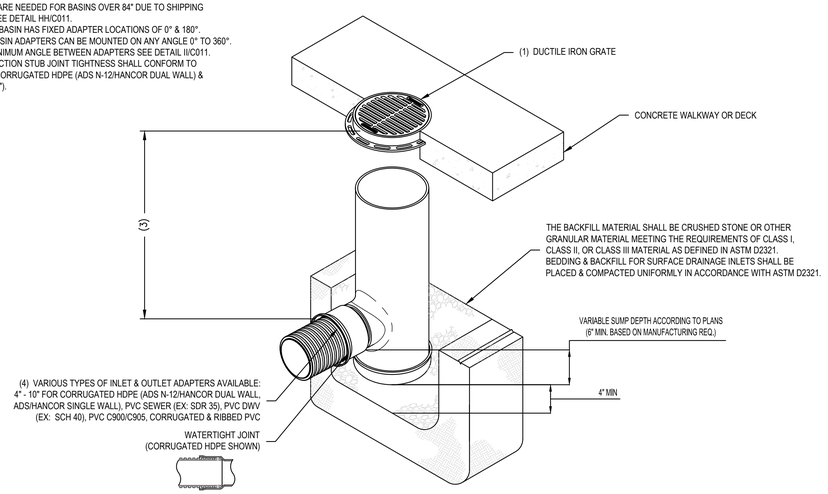
ESTATE ENIGHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE: March, 2025
DRAWN BY: DC
CHECKED BY: DC
APPROVED BY: DC

PROJECT NO.:
CONTRACT NO.:

SHEET NO.:
PAVING, GRADING AND DRAINAGE DETAILS
C012

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DETAIL HHIC011.
3 - STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DETAIL II/C011.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER (4" -10").

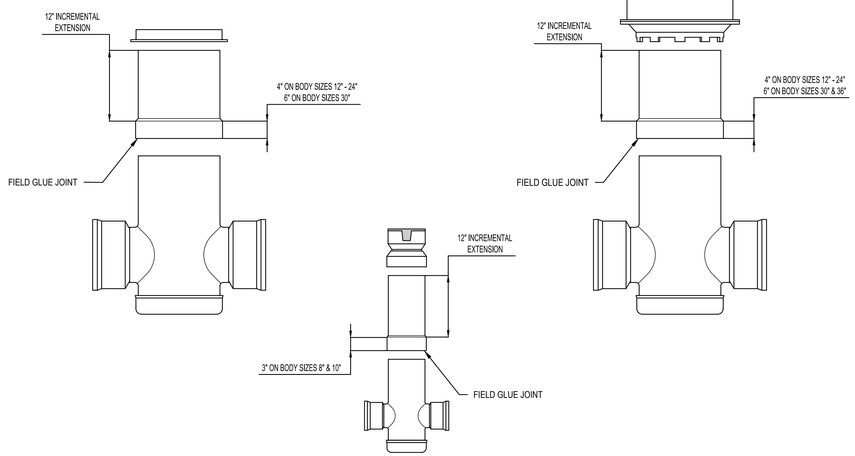


24 ADS NYLOPLAST OR APPROVED EQUAL 10" AREA DRAIN BASIN
NOT TO SCALE

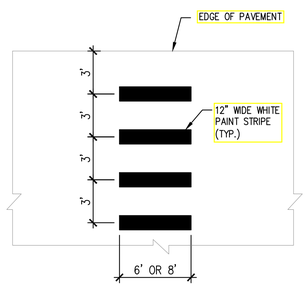
ADAPTER SIZE	8" BASIN	10" BASIN	12" BASIN	15" BASIN	18" BASIN	24" BASIN	30" BASIN	36" BASIN
4" - 4"	**70°**	**55°**	**50°**	**42°**	**35°**	**25°**	**24°**	**20°**
4" - 6"	75°	70°	55°	47°	40°	29°	25°	24°
4" - 8"	**100°**	**80°**	**65°**	**55°**	**45°**	**35°**	**28°**	**27°**
4" - 10"	-	95°	75°	62°	52°	40°	32°	30°
4" - 12"	-	-	**85°**	**70°**	**55°**	**45°**	**40°**	**33°**
4" - 15"	-	-	-	80°	65°	51°	44°	38°
4" - 18"	-	-	-	-	**76°**	**60°**	**50°**	**44°**
4" - 24"	-	-	-	-	-	75°	62°	55°
4" - 30"	-	-	-	-	-	-	**75°**	**73°**
4" - 36"	-	-	-	-	-	-	-	74°
6" - 6"	**90°**	**75°**	**65°**	**55°**	**44°**	**33°**	**30°**	**27°**
6" - 8"	115°	85°	75°	63°	51°	39°	34°	30°
6" - 10"		**105°**	**85°**	**70°**	**55°**	**43°**	**38°**	**33°**
6" - 12"	-	-	95°	75°	63°	48°	45°	36°
6" - 15"	-	-	-	**86°**	**72°**	**56°**	**48°**	**41°**
6" - 18"	-	-	-	-	84°	63°	55°	47°
6" - 24"	-	-	-	-	-	**77°**	**66°**	**52°**
6" - 30"	-	-	-	-	-	-	75°	76°
6" - 36"	-	-	-	-	-	-	-	**76°**
8" - 8"	165°	90°	80°	70°	55°	44°	35°	33°
8" - 10"	-	**115°**	**88°**	**76°**	**63°**	**48°**	**45°**	**36°**
8" - 12"	-	-	102°	83°	70°	52°	48°	40°
8" - 15"	-	-	-	**95°**	**78°**	**60°**	**55°**	**44°**
8" - 18"	-	-	-	-	90°	70°	60°	50°
8" - 24"	-	-	-	-	-	**82°**	**70°**	**62°**
8" - 30"	-	-	-	-	-	-	80°	69°
8" - 36"	-	-	-	-	-	-	-	**75°**
10" - 10"	-	160°	90°	82°	70°	53°	48°	40°
10" - 12"	-	-	**115°**	**85°**	**75°**	**58°**	**50°**	**43°**
10" - 15"	-	-	-	103°	85°	65°	58°	47°
10" - 18"	-	-	-	-	**97°**	**72°**	**65°**	**53°**
10" - 24"	-	-	-	-	-	88°	75°	65°
10" - 30"	-	-	-	-	-	-	**85°**	**72°**
10" - 36"	-	-	-	-	-	-	-	84°
12" - 12"	-	-	**150°**	**90°**	**82°**	**64°**	**56°**	**46°**
12" - 15"	-	-	-	112°	87°	69°	60°	51°
12" - 18"	-	-	-	-	**102°**	**78°**	**68°**	**57°**
12" - 24"	-	-	-	-	-	92°	80°	68°
12" - 30"	-	-	-	-	-	-	**90°**	**76°**
12" - 36"	-	-	-	-	-	-	-	86°
15" - 15"	-	-	-	**150°**	**90°**	**77°**	**69°**	**55°**
15" - 18"	-	-	-	-	110°	84°	75°	61°
15" - 24"	-	-	-	-	-	**98°**	**85°**	**72°**
15" - 30"	-	-	-	-	-	-	96°	85°
15" - 36"	-	-	-	-	-	-	-	**94°**
18" - 18"	-	-	-	-	150°	90°	78°	67°
18" - 24"	-	-	-	-	-	**108°**	**88°**	**75°**
18" - 30"	-	-	-	-	-	-	100°	87°
18" - 36"	-	-	-	-	-	-	-	**100°**
24" - 24"	-	-	-	-	-	150°	90°	85°
24" - 30"	-	-	-	-	-	-	**115°**	**99°**
24" - 36"	-	-	-	-	-	-	-	112°
30" - 30"	-	-	-	-	-	-	**150°**	**116°**
30" - 36"	-	-	-	-	-	-	-	134°
36" - 36"	-	-	-	-	-	-	-	**165°**

25 ADS NYLOPLAST OR APPROVED EQUAL 8" - 36" MINIMUM ANGLE BETWEEN ADAPTERS
NOT TO SCALE

1. NYLOPLAST RISER JOINTS SHALL BE FIELD INSTALLED USING THE GUIDELINES OUTLINED IN ASTM D2855.
2. PVC CEMENT USED SHALL MEET THE REQUIREMENTS OF ASTM D2564.
3. PVC PRIMER USED SHALL MEET THE REQUIREMENTS OF ASTM F656.



26 ADS NYLOPLAST OR APPROVED EQUAL 8" - 36" RISER EXTENSION
NOT TO SCALE



27 SPECIAL EMPHASIS CROSSWALK MARKING DETAIL
N.T.S.

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

ESTATE ENIGHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE: March, 2025
DRAWN BY: DC
CHECKED BY: DC
APPROVED BY: DC

PROJECT NO.:
CONTRACT NO.:

SHEET NO.:
PAVING, GRADING AND DRAINAGE DETAILS
C013

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-18
U.S. VIRGIN ISLANDS

GENERAL NOTES:

1. ALL PAVED SURFACES, INCLUDING DRIVEWAYS CROSSED BY THE PROPOSED WATER MAINS SHALL BE SAW CUT TO PROVIDE A CLEAN TRUE EDGE FOR PAVEMENT REPLACEMENT.

2. THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN THE EXISTING EASEMENTS AND CONSTRUCTION LIMITS UNLESS OTHERWISE APPROVED BY THE OWNER.

3. ROOF DRAINS, FOUNDATION DRAINS, SUMP PUMP DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED. NO BUILDING SHALL BE CONNECTED TO A SEWER LATERAL UNTIL THE BUILDING IS UNDER ROOF.

4. ALL MATERIAL, CONSTRUCTION METHODS AND TESTING PROCEDURES SHALL BE IN CONFORMANCE WITH THE WRITTEN SPECIFICATIONS OF THE V.I. WATER & POWER AUTHORITY (VIWAPA) FOR ALL WATER LINE WORK, AND THE V.I. WASTE MANAGEMENT AUTHORITY FOR ALL SANITARY SEWER LINE WORK (VIWMA).

5. THE SOIL TYPES IN THE AREAS OF THE PROPOSED SEWER LINES WERE VISUALLY OBSERVED FOR THE PRESENCE OF CORROSIVE SOILS. THERE WERE NO CORROSIVE SOILS DETECTED. SHOULD IRON PIPES BE PROPOSED IN AN AREA AND CORROSIVE SOILS ENCOUNTERED, THE PIPE SHALL BE PROTECTED BY AN 8 MIL THICK POLYETHYLENE ENCASEMENT MEETING THE REQUIREMENTS OF ANSI A21.5.

6. ALL WATER AND SEWAGE FACILITIES DESIGNED HEREIN SHALL CONFORM TO THE MATERIALS, SPECIFICATIONS, CONSTRUCTION METHODS AND STANDARD DETAILS SPECIFIED BY VIWAPA AND VIWMA, RESPECTIVELY. IN CASE OF CONFLICTS WITH THE PROJECT'S WRITTEN SPECIFICATIONS OR STANDARD DETAILS, THE MORE STRINGENT SHALL APPLY. THE VIWAPA AND VIWMA SHALL MAKE THE FINAL DECISION IN EACH CASE.

7. ALL SERVICES HAVE BEEN DESIGNED AND DRAWN IN ACCORDANCE WITH BASE SITE LAYOUT PLANS AND LAND SURVEY DRAWINGS PROVIDED BY THE OWNER'S REPRESENTATIVE. BUILDTEC ACCEPTS NO RESPONSIBILITY FOR FIELD ERRORS RESULTING FROM INACCURACIES IN OWNER-PROVIDED SITE PLANS.

8. CONTRACTOR SHALL BEAR RESPONSIBILITY FOR ACCURATE LOCATION OF SEWER LINES AND APPURTENANCES. CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF LOCATIONS OF ALL SEWER AND WATER DISTRIBUTION LINES, APPURTENANCES, HYDRANTS, CLEANOUTS, JUNCTIONS AND BRANCHES.

WATER DISTRIBUTION SYSTEM:

1. ALL WATER MAINS SHALL BE MINIMUM 6-INCH AWWA C-900 PVC WITH DR OF 18. ALL PIPES AND FITTINGS SHALL BE CLASS "C" OR BETTER. JOINTS IN PVC PIPES SHALL BE OF THE RUBBER-RING PUSH-FIT TYPE, EITHER SPIGOT AND SOCKET OR DOUBLE BELL COUPLING.

2. ALL PIPES SHALL BE LAID AND MAINTAINED TO THE REQUIRED LINE AND GRADIENTS WITH FITTINGS, VALVES AND HYDRANTS AT THE REQUIRED LOCATIONS. ALL WATER MAINS SHALL BE LAID TO SUCH DEPTHS WHICH WILL PROVIDE A MINIMUM COVER OF 3'-0" OR AS INDICATED IN THESE DRAWINGS.

3. TRENCHES SHALL BE EXCAVATED TO A MINIMUM WIDTH OF 12" PLUS THE NOMINAL PIPE DIAMETER (6" EACH SIDE), AND TO A DEPTH 4" DEEPER THAN THE PIPE INVERT FOR 4" DIAMETER PIPE OR LESS, AND 6" FOR ALL OTHERS. THE BOTTOM OF THE TRENCHES SHALL BE PROPERLY CLEANED AND LEVELED, AND SELECTED GRANULAR MATERIAL OR SAND PROVIDED UNDER THE PIPES. BELL HOLES SHALL BE PROVIDED AT EACH JOINT TO PERMIT PROPER JOINTING AND TO AVOID THE POSSIBILITY OF BRIDGING BETWEEN JOINTS. EVERY PRECAUTION SHALL BE TAKEN TO ENSURE THAT NO FOREIGN MATERIAL ENTERS THE PIPE WHILE BEING LAID AND THAT RUBBER RINGS ARE PROPERLY INSTALLED IN THE PIPE BELL.

4. GATE OR BUTTERFLY VALVES MAY BE USED AND VARIETY SHALL BE PROVIDED WHERE SHOWN ON THE PLAN. VALVES SHALL BE PROVIDED ON ALL BRANCH MAINS AT THEIR JUNCTIONS WITH PRINCIPAL MAINS. THE FOLLOWING STANDARDS APPLY:
   AWWA C-509 - RESILIENT SEATED GATE VALVES FOR WATER AND SEWERAGE SYSTEMS
   AWWA C-504 - RUBBER SEATED BUTTERFLY VALVES
   ALL VALVES MUST BE SQUARE-NUT OPERATED, NON-RISING STEM FITTED WITH O-RING SEALS.

5. CONCRETE ANCHOR BLOCKS SHALL BE PROVIDED AT ALL TEES, BENDS, CAPS, PLUGS, ETC. TO PREVENT REACTION MOVEMENTS. THE CONCRETE SHALL BE PLACED BETWEEN SOLID GROUND AND THE FITTING TO BE ANCHORED.

6. BACKFILLING SHALL BE CARRIED OUT WITH SUITABLE FINE MATERIAL IN ORDER TO PROVIDE A FIRM AND CONTINUOUS SUPPORT FOR THE PIPE. BACKFILL SHALL BE PLACED BY HAND AND FULLY COMPACTED IN LAYERS NOT EXCEEDING 6" FOR THE FIRST 12" OVER THE PIPE. APPROVED MECHANICAL METHODS MAY BE EMPLOYED FOR BACKFILLING THE REMAINDER OF THE TRENCH. IF SUITABLE BACKFILL MATERIAL IS NOT AVAILABLE IN SUFFICIENT QUANTITY FROM THE TRENCH, THE NECESSARY MATERIAL SHALL BE IMPORTED TO COMPLETE BACKFILLING. WHERE PVC PIPE IS BEING LAID, SAND OR OTHER APPROVED MATERIAL SHALL BE USED FOR BEDDING AND SURROUND, AND FOR THE FIRST 12" ABOVE THE PIPE. IT SHALL BE PLACED BY HAND AND BE FULLY COMPACTED IN 6" LAYERS BEFORE THE REMAINDER OF THE TRENCH IS BACKFILLED IN THE USUAL MANNER.

7. POLYETHYLENE SERVICE PIPES SHALL BE SDR 11, PC 160 PSI, IPS, OD-CONTROLLED IN ACCORDANCE WITH AWWA C901 AND ASTM 3035 (SEE AWWA C-901, TABLE 5), AND SHALL BE COMPATIBLE WITH TALBOT PUSH-FIT FITTINGS. PIPE MUST ALSO BEAR THE NATIONAL SANITATION FOUNDATION (NSF) SEAL FOR POTABLE WATER.

8. THE SERVICE LINES SHALL BE CONNECTED TO THE MAINS BY THE INSERTION OF CORPORATION COCKS, FERRULES OR ANGLE VALVES OF A TYPE APPROVED BY THE VIWAPA.

9. SERVICE LINES SHALL HAVE A MINIMUM COVER OF 2 FEET IN VEHICULAR DRIVEWAYS, PARKING LOTS AND ROADWAYS AND BE PROTECTED BY PVC DUCTING.

10. CONTRACTOR SHALL MAKE BUILDING CONNECTIONS WITH TEE-WYE AND DOUBLE WYE BRANCH CONNECTION TO MAIN SEWER LINE. JOINTS SHALL BE LOCATED TO PERMIT ONE CONNECTION FOR TWO PROPERTIES WHERE POSSIBLE. BUILDING CONNECTIONS PROVIDED BY THE DEVELOPER SHALL EXTEND THREE FEET BEYOND FRONT PROPERTY LINE. BUILDING SEWERS AND CLEAN OUTS SHALL BE STUBBED A MINIMUM THREE FEET BEYOND GRADE TO EASE FUTURE CONNECTIONS. BUILDING SEWER PIPE SHALL BE SIX INCH DIAMETER PVC.

11. BUILDING SEWERS SHALL CONNECT TO MAIN GRAVITY SEWER LINES ONLY. BUILDING LINE CONNECTIONS DIRECTLY TO MANHOLES ARE NOT PERMITTED.

12. FIRE HYDRANTS MUST BE IN ACCORDANCE WITH AWWA C502. HYDRANTS SHOULD HAVE (2) 2 1/2" OUTLET NOZZLES AND (1) 4 1/2" PUMPER NOZZLE WITH STANDARD HOLE THREADS. CAPS MUST BE PROVIDED ON NOZZLES AND ATTACHED BY CHAINS. A STANDARD AWWA OPERATING NUT WITH O-RING TYPE SEAL IS REQUIRED. HYDRANTS SHOULD ALSO BE INSTALLED WITH BREAK-AWAY FLANGE AT BASE. TWO OPERATING KEYS SHALL BE PROVIDED WITH EACH INSTALLED HYDRANT.

13. ALL BURIED VALVES SHALL HAVE CAST IRON TWO- OR THREE-PIECE VALVE BOXES WITH CAST IRON COVERS. VALVE BOXES SHALL BE PROVIDED WITH SUITABLE HEAVY BONNETS AND TO EXTEND TO SUCH ELEVATION AT OR SLIGHTLY ABOVE THE FINISHED GRADE SURFACE. THE BARREL SHALL BE ONE- OR TWO-PIECE SCREW TYPE, HAVING 5 1/4" SHAFT. COVER SHALL HAVE "WATER" CAST INTO THE TOP FOR ALL WATER MAINS. ALL VALVES SHALL HAVE ACTUATING NUTS EXTENDED TO WITHIN SIX INCHES OF THE TOP OF THE VALVE BOX COVER. VALVE BOXES SHALL BE PROVIDED WITH CONCRETE BASES.

14. LOCATION OF FIRE HYDRANTS, VALVES AND OTHER WATER APPURTENANCES SHOWN IN DRAWINGS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE ESTABLISHED ON SITE BY CONTRACTOR AND CONFIRMED BY ENGINEER OF RECORD.

15. ELEVATION OF MANHOLE RIMS ARE APPROXIMATED FROM SURVEYOR'S DRAWINGS. FINAL ELEVATIONS SHALL BE ESTABLISHED ON SITE BY CONTRACTOR AND CONFIRMED BY ENGINEER OF RECORD.

16. SEWER LINE DIRECTIONS ARE APPROXIMATED FROM SURVEYOR'S DRAWINGS. FINAL SEWER LINE BEARINGS SHALL BE ESTABLISHED ON SITE BY CONTRACTOR AND CONFIRMED BY ENGINEER OF RECORD.

17. CONTRACTOR IS RESPONSIBLE FOR LOCATION, REMOVAL AND OR COORDINATION OF EXISTING UTILITIES. THE ENGINEER OF RECORD SHALL BE APPRISED OF ANY CONFLICTS BETWEEN EXISTING UTILITIES AND THE NEW DESIGN PRIOR TO ANY SITE CORRECTION OF NEW DESIGN BY THE CONTRACTOR.

18. CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS WHICH SHALL BE SUBMITTED TO THE VIWAPA AND VIWMA WITHIN SEVEN DAYS OF PROJECT COMPLETION. FINAL INSPECTION AND APPROVALS WILL NOT BE GRANTED WITHOUT THE SAME.

19. ALL CONSTRUCTION WORKS SHALL BE CARRIED OUT BY COMPETENT CONTRACTORS EXPERIENCED IN THE CONSTRUCTION OF POTABLE WATER AND SANITARY SEWAGE WORKS AND ALL MACHINERY INSTALLATION SHALL BE SUPERVISED, TESTED AND/OR CERTIFIED BY THE MANUFACTURER'S REPRESENTATIVE.

20. ALL WORKS SHALL BE OPEN TO INSPECTION BY THE VIWAPA AND VIWMA THROUGHOUT CONSTRUCTION.

SANITARY SEWER SYSTEM:

1. ALL GRAVITY SANITARY SEWER LINES SHALL BE ASTM D3034 PVC PIPE WITH STANDARD DIMENSION RATIO (SDR) OF 35. SEWER PIPES AND FITTINGS SHALL HAVE BONDED, RESILIENT JOINTS WHICH SHALL RETAIN WATER TIGHTNESS BY COMPRESSION OF THE GASKET MATERIAL AROUND THE ENTIRE PERIPHERY OF THE PIPE.

2. LEAKAGE FOR NEW COPNSTRUCTION, OR SYSTEMS THAT HAVE NEVER BEEN COMMISIONED, SHALL BE ZERO. LEAKAGE INWARD OR OUTWARD FROM EXISTING SEWERS SHALL NOT EXCEED 300 GALLONS PER INCH DIAMETER PER MILE PER DAY.

3. THE MINIMUM ALLOWABLE SIZE OF SEWERS OTHER THAN HOUSE CONNECTIONS SHALL BE EIGHT (8) INCHES DIAMETER.

4. THE FOLLOWING MINIMUM GRADES SHALL BE PROVIDED :

8" DIAMETER SEWERS	0.40%
10" DIAMETER SEWERS	0.28%
12" DIAMETER SEWERS	0.22%
15" DIAMETER SEWERS	0.15%
18" DIAMETER SEWERS	0.12%
21" DIAMETER SEWERS	0.10%
24" DIAMETER SEWERS	0.08%

5. SEWERS SHALL BE LAID WITH UNIFORM SLOPES AND ALIGNMENT BETWEEN MANHOLESAND ON COMPLETION SHALL SHOW A FULL CIRCLE OF LIGHT WHEN LAMPED BETWEEN MANHOLES.

6. MANHOLES SHALL BE INSTALLED AT ALL CHANGES OF GRADE, ALIGNMENT OR SIZE OF SEWER, AT ALL INTERSECTIONS AND DISTANCES NOT GREATER THAN 400 FEET. THE MINIMUM INSIDE DIAMETER OF MANHOLES SHALL BE 48 INCHES.

7. THE MANHOLE FLOOR SHALL HAVE A FLOW CHANNEL MADE TO CONFORM IN SHAPE AND CARRYING CAPACITY TO THAT OF THE SEWERS.

8. FORCE MAINS SHALL BE DUCTILE IRON OR PVC PRESSURE PIPE WITH RUBBER RING, PUSH FIT JOINTS. MINIMUM VELOCITY IN THE FORCE MAINS SHALL BE 2.5 FEET PER SECOND. THE FOLLOWING STANDARDS SHALL APPLY:
   DUCTILE IRON - AWWA C100
   PVC - AWWA C900 (SDR-18)

PUMPING STATION:

1. SEWAGE PUMPING STATIONS SHALL BE CONCRETE WET WELL PUMPING STATION INCORPORATING EASILY REMOVABLE CLOSE-COUPLED SUBMERSIBLE PUMPS.

2. TWO OR MORE PUMPS COMPATIBLE WITH THE STANDARD MODELS USED BY THE CORPORATION (FLYGT), SHALL BE PROVIDED IN EACH PUMPING STATION. WHERE ONLY TWO PUMPS ARE PROVIDED, EACH PMUP SHALL BE CAPABLE OF HANDLING TWICE THE PEAK FLOW AND BE THE SAME MODEL AND IMPELLER SIZE.

3. DEVICES FOR MEASURING SEWAGE FLOWS AND POWER CONSUMPTION SHALL BE INSTALLED AT ALL PUMPING STATIONS.

4. APPROVED STANDBY POWER EQUIPMENT OR FACILITIES TO ALLOW QUICK CONNECTION OF STANDBY POWER EQUIPMENT SHALL BE PROVIDED AT PUMPING STATIONS.

REVISIONS

NO.	DATE	REMARKS

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CRUZ BAY-VIFEMS STATION

ESTATE ENIGHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

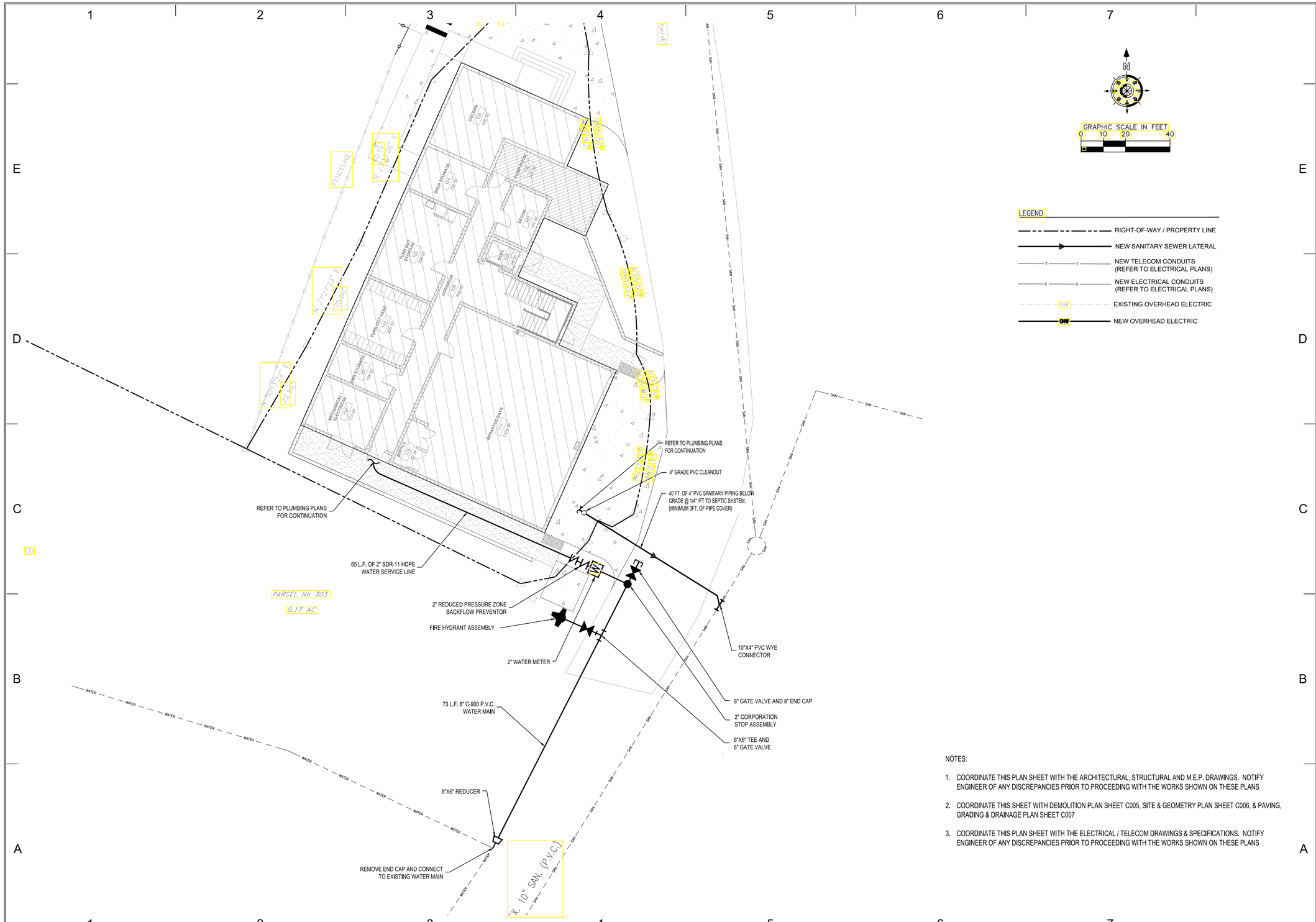
DATE: March, 2025
DRAWN BY: DC
CHECKED BY: DC
APPROVED BY: DC

PROJECT NO.:
CONTRACT NO.:

SHEET NO.:
POTABLE WATER AND SANITARY SEWER NOTES

C014

INTERNATIONAL ENGINEER
DAMIAN CARTWRIGHT 28851-IB
VIRGIN ISLANDS U.S.A.



NOTES:

1. COORDINATE THIS PLAN SHEET WITH THE ARCHITECTURAL, STRUCTURAL AND M.E.P. DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORKS SHOWN ON THESE PLANS
2. COORDINATE THIS SHEET WITH DEMOLITION PLAN SHEET C005, SITE & GEOMETRY PLAN SHEET C006, & PAVING, GRADING & DRAINAGE PLAN SHEET C007
3. COORDINATE THIS PLAN SHEET WITH THE ELECTRICAL / TELECOM DRAWINGS & SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORKS SHOWN ON THESE PLANS

REVISIONS

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CRUZ BAY-VIFEMS STATION

ESTATE ENIGHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	March, 2025
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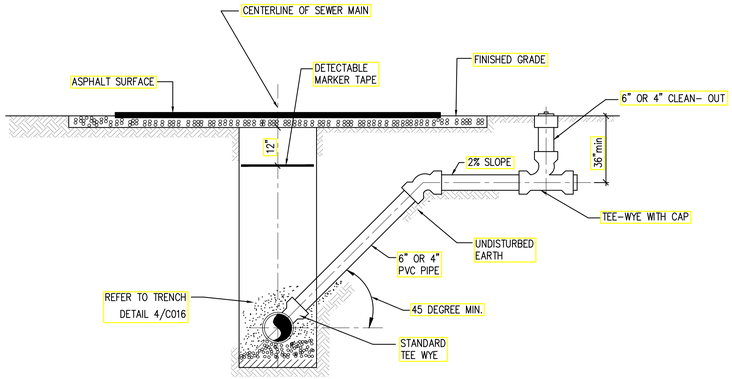
PROJECT NO.:

CONTRACT NO.:

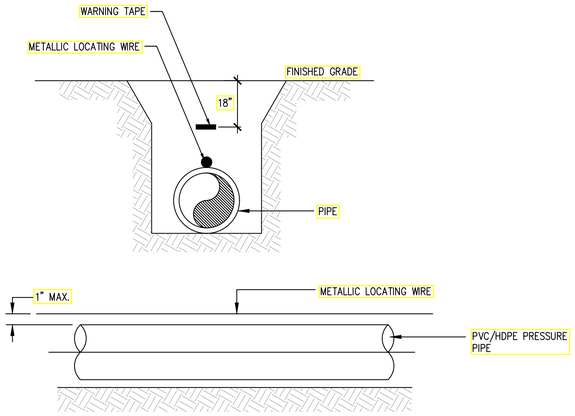
SHEET NO.:
POTABLE WATER AND SANITARY SEWER PLAN

C015

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-18
U.S. VIRGIN ISLANDS

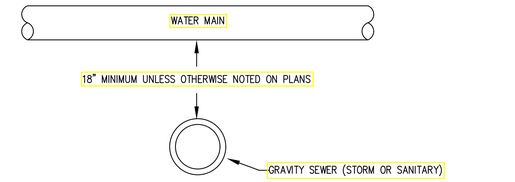


1 SANITARY SEWER LATERAL
NOT TO SCALE



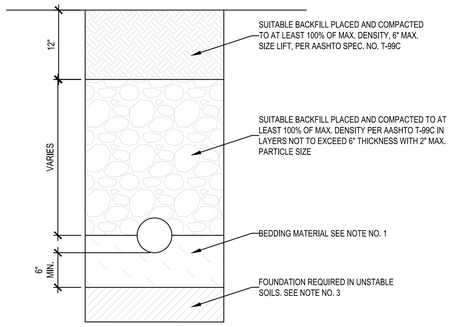
NOTES:
1. PVC/HDPE PRESSURE PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (14 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE TAPED TO CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 3" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
3. USE DUCT TAPE OR PLASTIC TIES AS NECESSARY TO HOLD WIRE DIRECTLY ON THE TOP OF THE PIPE.
4. EXTEND METALLIC LOCATING WIRE ALONG STUBBED OUT SERVICE CONNECTIONS
5. WARNING/MARKING TAPE SHALL BE DIRECTLY ABOVE ALL PRESSURE PIPE. TAPE SHALL HAVE 18" COVER

2 PIPE LOCATING WIRE
NOT TO SCALE



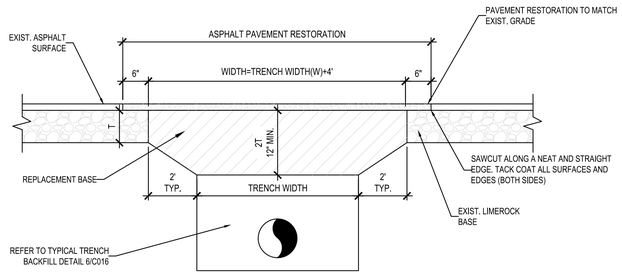
NOTES:
1. A VERTICAL SEPERATION DISTANCE OF A MINIMUM OF 18" MUST BE MAINTAINED.
2. IF MINIMUM VERTICAL SEPERATION IS NOT POSSIBLE THEN THE SEWER MAIN MUST BE ENCASED FOR A DISTANCE 20'-0" CENTERED ON THE POINT OF CROSSING AND SEWER MAIN MUST BE OF WATER QUALITY (i.e. DR. 18 AWWA C900).

3 WATERMAIN CROSSING
NOT TO SCALE



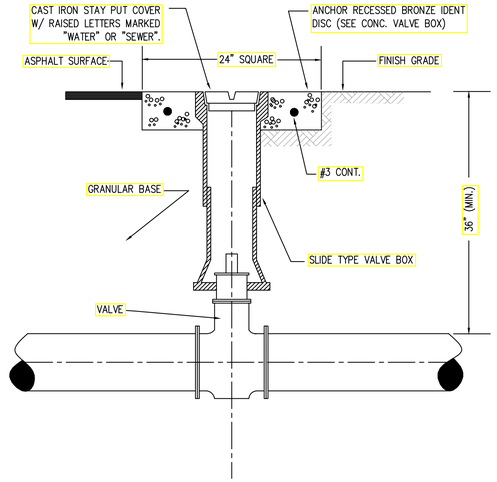
NOTES:
1. UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAXIMUM PARTICLE SIZE, COMPACTED TO AT LEAST 100% OF MAX. DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-99C
2. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
3. WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED AS DETERMINED BY THE ENGINEER.

4 TYPICAL TRENCH BACKFILL
NOT TO SCALE



GENERAL NOTES:
1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE. BUT NOT LESS THAN 12".
2. BASE MATERIAL SHALL BE PLACED IN 6 INCH MAXIMUM LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100.
3. ASPHALTIC CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. SURFACE TREATED PAVEMENT JOINTS SHALL BE LAPPED AND FEATHERED. PAVEMENT MATERIAL SHALL BE FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE STRUCTURAL COURSE (1" THICK). MATCH EXISTING GRADES AT LIMIT OF SAWCUT.
5. UPON COMPLETION OF TRENCHING AND TRENCH/PAVEMENT RESTORATION FOR THE ENTIRE PROJECT, RESURFACE ENTIRE ROADWAY WIDTH WITH FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE SURFACE COURSE OVERLAY (1" MINIMUM THICKNESS).
6. BID PRICES FOR PIPE AND/OR FRENCH DRAIN SHALL INCLUDE PAVEMENT RESTORATION TO MATCH EXISTING GRADES. CONTRACTOR SHALL NOT LEAVE MORE THAN 1,000-FEET OF EXPOSED LIMEROCK BASE AT ANY TIME DURING THE TRENCH/PAVEMENT RESTORATION PROCESS. ONLY THE FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE SURFACE COURSE OVERLAY WILL BE PAID SEPARATELY.
7. WHEN TRENCHING OUTSIDE THE PAVEMENT AREA, ASPHALT AND BASE MATERIAL REFERENCED IN GENERAL NOTES 1-5 ARE NOT REQUIRED. RESTORE OR REPLACE ALL PUBLIC OR PRIVATE PROPERTY TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL IMPACTED AREAS SHALL BE COMPACTED TO 95% DENSITY IN 6-INCH MAXIMUM LIFTS.
8. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL SOILS INFORMATION TO UNDERSTAND EXISTING CONDITIONS.

5 PAVEMENT RESTORATION
NOT TO SCALE



6 VALVE AND BOX
NOT TO SCALE

REVISIONS

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CRUZ BAY-VIFEMS STATION

ESTATE ENIGHED PARCEL NO. 303
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DATE: March, 2025
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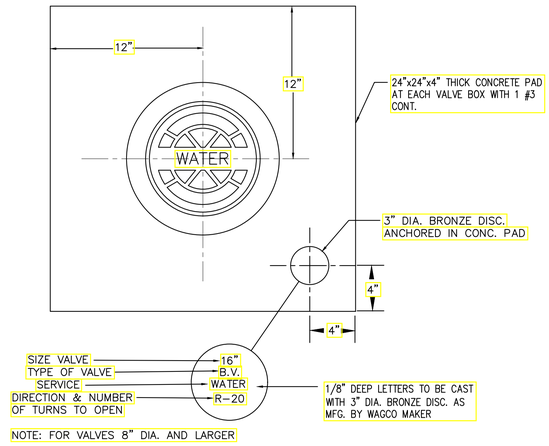
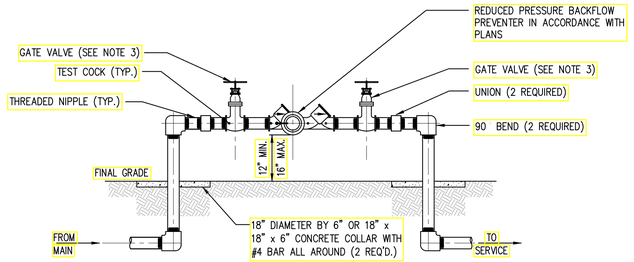
SHEET NO.:
POTABLE WATER AND SANITARY SEWER DETAILS

C016

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-IB
U.S. VIRGIN ISLANDS



7 CONCRETE VALVE PAD
NOT TO SCALE

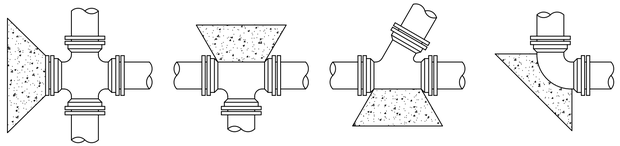


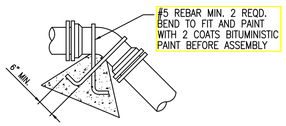
NOTES:

1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL OR BRASS. ALL FITTINGS 3" AND LARGER SHALL BE DUCTILE IRON
2. BACKFLOW PREVENTER ASSEMBLIES SHALL BE FEBCO MODEL (SEE BELOW) OR ENGINEER APPROVED EQUAL:

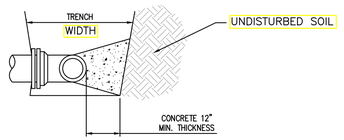
   2" AND SMALLER: 825Y
   2-1/2" AND LARGER: 825YD
3. ON ASSEMBLIES 2" AND LARGER, ISOLATION GATE VALVES ARE INCLUDED IN ASSEMBLY.

8 ABOVE GROUND REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY
NOT TO SCALE





DEADMAN



TYPICAL SECTION

NOTES:

1. THRUST BLOCKS SHALL BE USED IN ADDITION TO MEG-A-LUG RESTRAINED JOINTS FOR ALL PRESSURE PIPE GREATER THAN 12" DIAMETER AND FOR FIRE HYDRANTS AND AT DEAD ENDS IN ACCORDANCE WITH THE "BLOW OFF WITH RESTRAINT BLOCK" DETAIL AND AS APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE ON A CASE BY CASE BASIS.

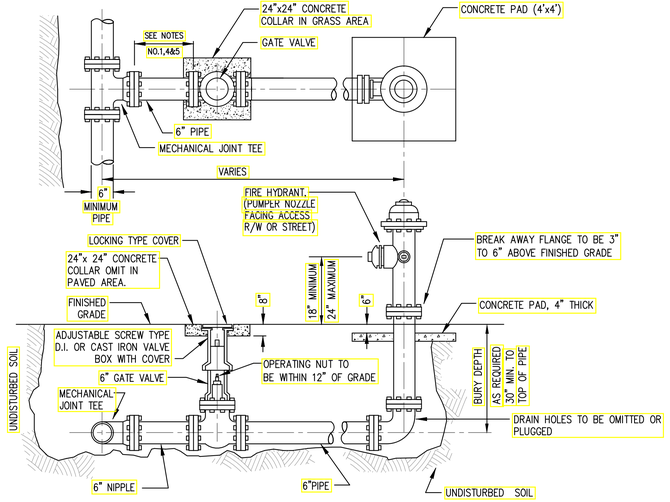
2. ALL THRUST BLOCKS SHALL BE FORMED. LAID FORMS SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE POURING OF CONCRETE AND SHALL ALSO BE INSPECTED BY THE OWNER'S REPRESENTATIVE PRIOR TO COVER- ING. TYPICAL LOCATIONS WHICH REQUIRE CONCRETE REACTIONS (THRUST) BLOCKS, FOR PRESSURE MAINS FOUR INCHES (4") AND GREATER CONCRETE SHALL HAVE 2500 P.S.I. MINIMUM STRENGTH AT TWENTY EIGHT (28) DAYS AND BEAR AGAINST UNDISTURBED STABLE SOILS, AREA OF CONTACT SHALL BE COVERNED BY PIPE SIZE, MAXIMUM PRESSURE IN PIPE, AND BEARING CAPACITY OF SOIL. PROTECT FITTINGS, BOLTS, ETC. BY COVERING WITH 5 MIL. OR GREATER POLYETHYLENE SHEET. CONCRETE SHALL BE A MINIMUM OF TWELVE INCHES (12") THICK.

(PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

PIPE	THRUST BLOCK SOIL BEARING AREA REQUIRED	PIPE	THRUST BLOCK SOIL BEARING AREA REQUIRED	REMARKS
4"	2.0 SQ. FT.	18"	30.0 SQ. FT.	
6"	4.0 SQ. FT.	20"	37.0 SQ. FT.	
8"	6.6 SQ. FT.	24"	53.0 SQ. FT.	VALUES ARE FOR 90° BEND, BASED ON 2000 P.S.F. SAFE BEARING LOAD AND PIPE PRESSURE OF 150 P.S.I. PLUS 33% SAFETY FACTOR FOR OTHER SOILS AND PRESSURES.
10"	10.0 SQ. FT.	27"	80.0 SQ. FT.	
12"	14.0 SQ. FT.	30"	98.0 SQ. FT.	
14"	18.0 SQ. FT.	36"	127.0 SQ. FT.	
16"	24.0 SQ. FT.			

NOT COVERED BY THE ABOVE.

9 THRUST BLOCKS
NOT TO SCALE



NOTES:

1. USE RESTRAINED JOINTS FOR THE ENTIRE ASSEMBLY SHOWN.
2. DUCTILE IRON TO BE USED FOR FIRE HYDRANT ASSEMBLY.
3. GATE VALVE IS NORMALLY LOCATED NEXT TO TEE.
4. THE FIRE HYDRANT ASSEMBLY SHALL CONSIST OF AN APPROVED SHUT OFF VALVE INSTALLED AT THE MAINLINE JUNCTURE, AND SHALL INCLUDE A SECOND VALVE WHENEVER THE LENGTH TO THE FIRE HYDRANT EXCEEDS 16 FEET.

10 FIRE HYDRANT ASSEMBLY
NOT TO SCALE

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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Christiansted, USVI 00823

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CRUZ BAY-VIFEMS STATION

ESTATE ENIGHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

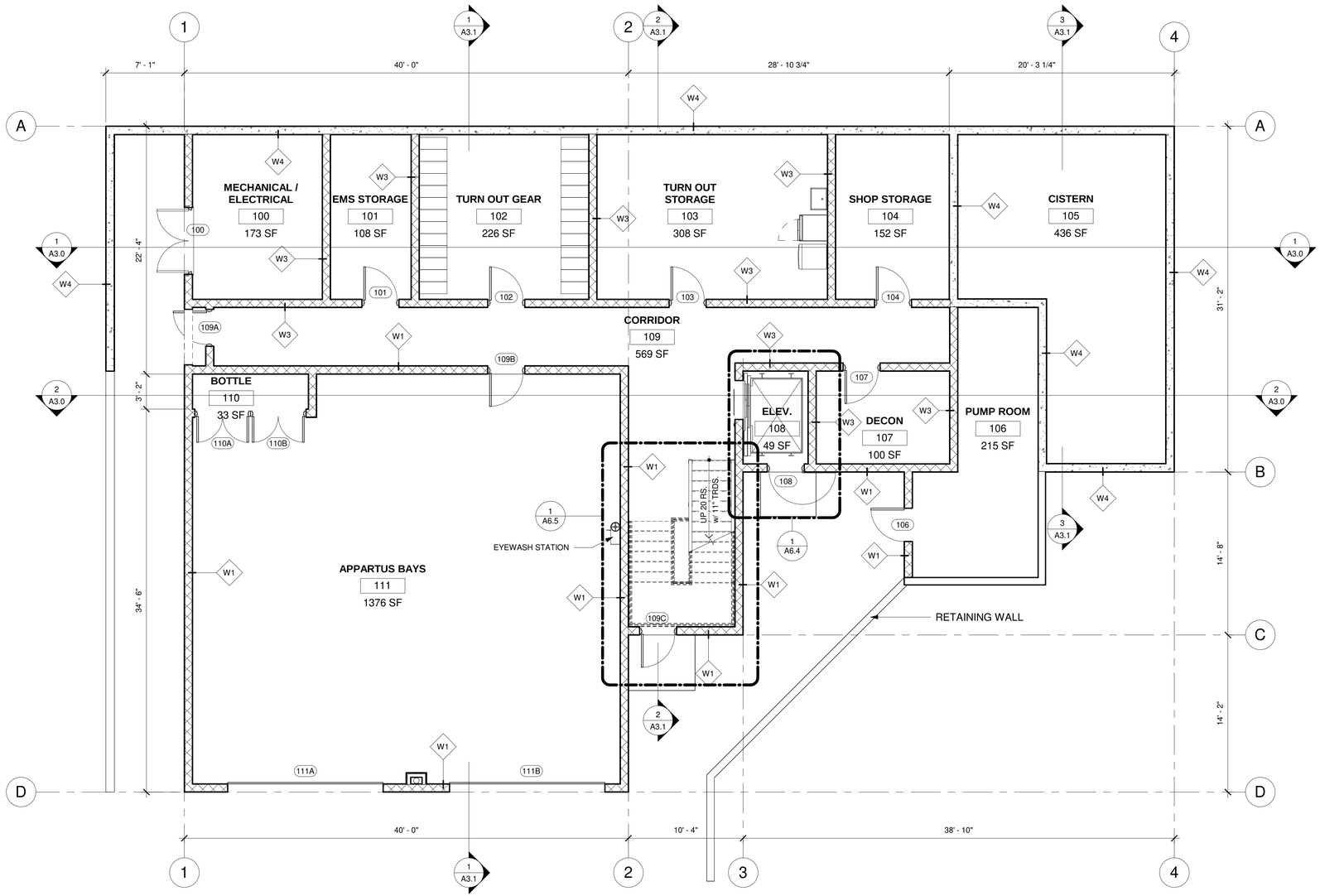
DATE: March, 2025
DRAWN BY: DC
CHECKED BY: DC
APPROVED BY: DC

PROJECT NO.:
CONTRACT NO.:

SHEET NO.:
POTABLE WATER AND SANITARY SEWER DETAILS

C017

PROFESSIONAL ENGINEER
DAMIAN CARTWRIGHT
28851-IB
U.S. VIRGIN ISLANDS



1 FIRST LEVEL - IDENTIFICATION PLAN

3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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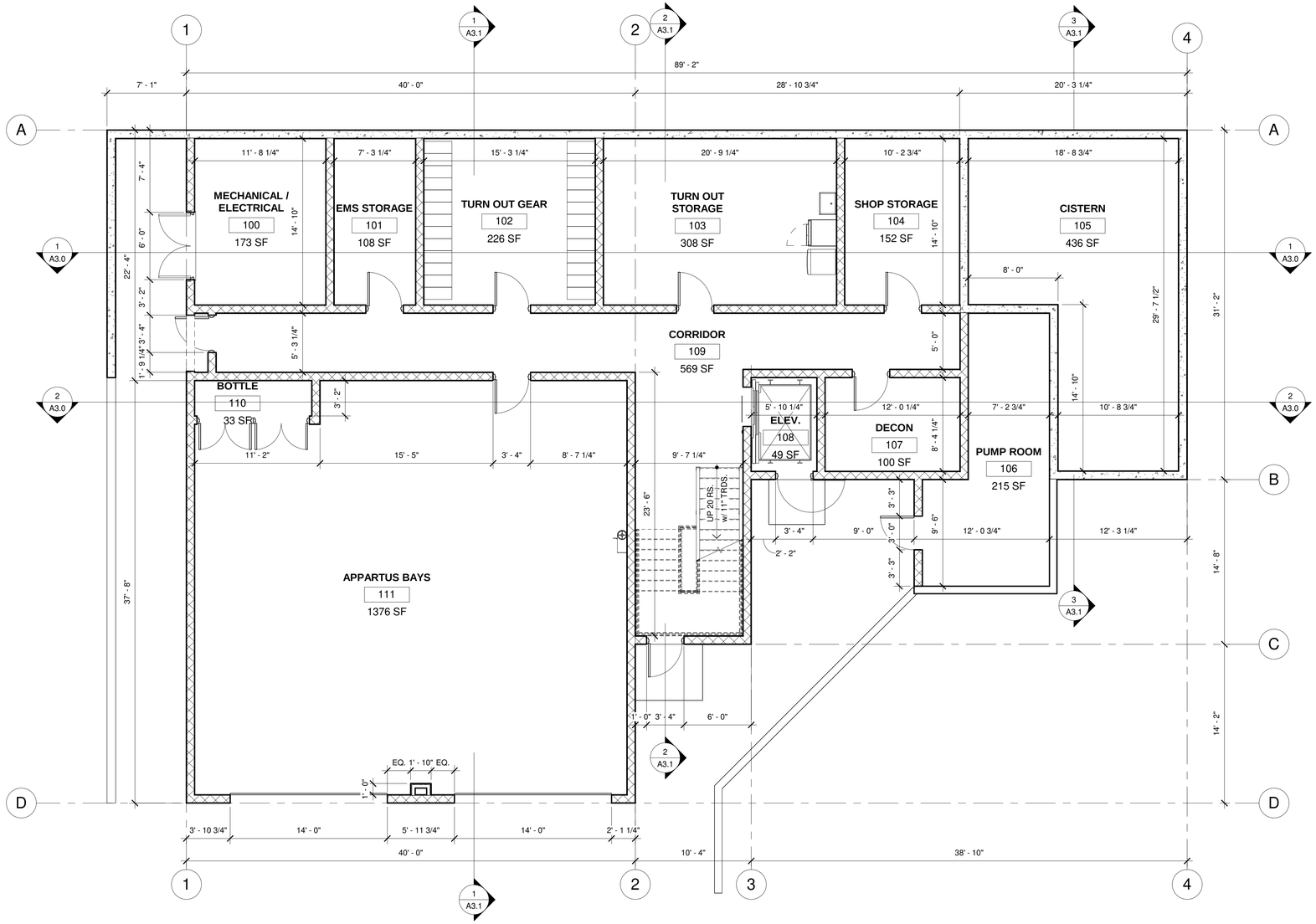
CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	1A1.0

FIRST LEVEL - IDENTIFICATION PLAN



1 FIRST LEVEL - DIMENSION PLAN

3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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APPROVED BY:	Approver
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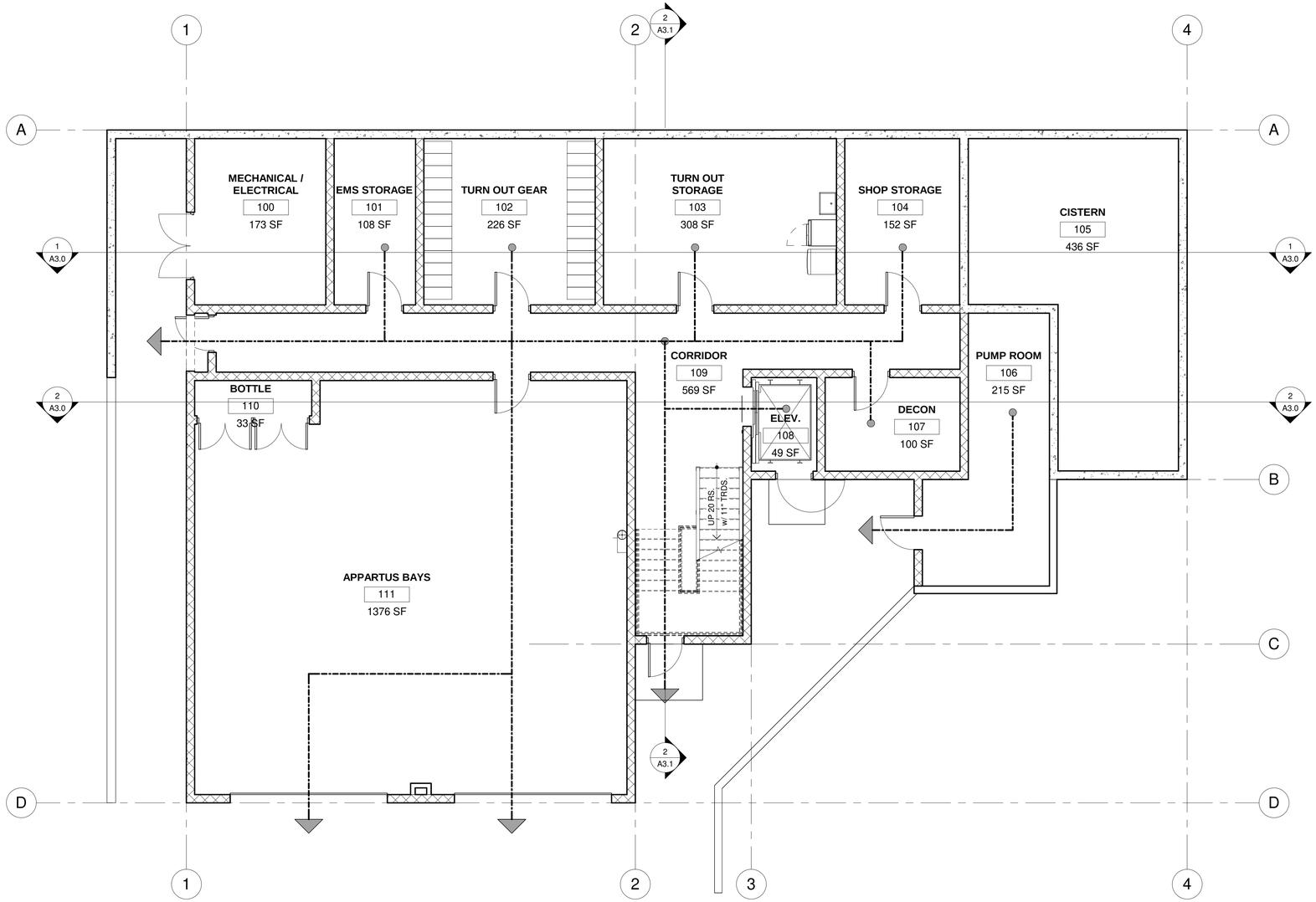
CONTRACT NO.:	-
SHEET NO.:	1A1.1

FIRST LEVEL - DIMENSION PLAN

REGISTERED ARCHITECT
U.S. & VIRGIN ISLANDS



1 FIRST LEVEL - LIFE SAFETY PLAN

3/16" = 1'-0"

REVISIONS		
NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
DRAWN BY:	BJS
CHECKED BY:	Checker
APPROVED BY:	Approver
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	1A1.2

FIRST LEVEL LIFE SAFETY PLAN

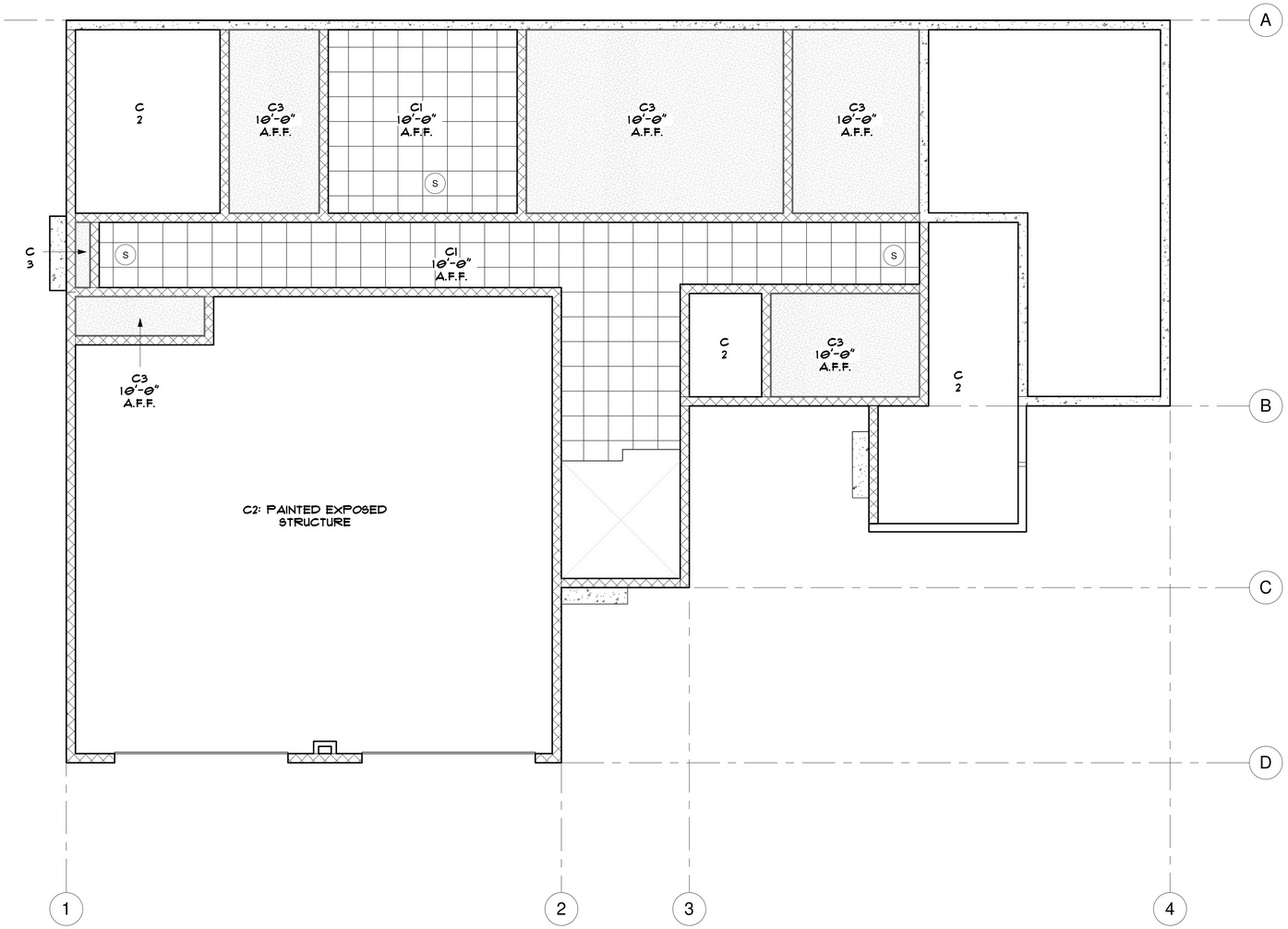
REGISTERED ARCHITECT U.S. VIRGIN ISLANDS

CEILING

C1 24X24 ACOUSTICAL CEILING TILE LAYOUT CENTERED IN ROOM OR CORRIDOR UNLESS OTHERWISE NOTED - ARMSTRONG BEVELED TEGULAR 3/16" INTERLUDE DIMENSIONAL TEE SYSTEM WITH 24"X24"X1" OPTIMA OPEN PLAN CEILING TILES (COLOR WHITE)

C2 PAINTED EXPOSED STRUCTURE

C3 PAINTED GYPUM WALL BOARD



FIRST FLOOR REFLECTED CEILING
3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

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CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE: 04.22.2025
DRAWN BY: Author
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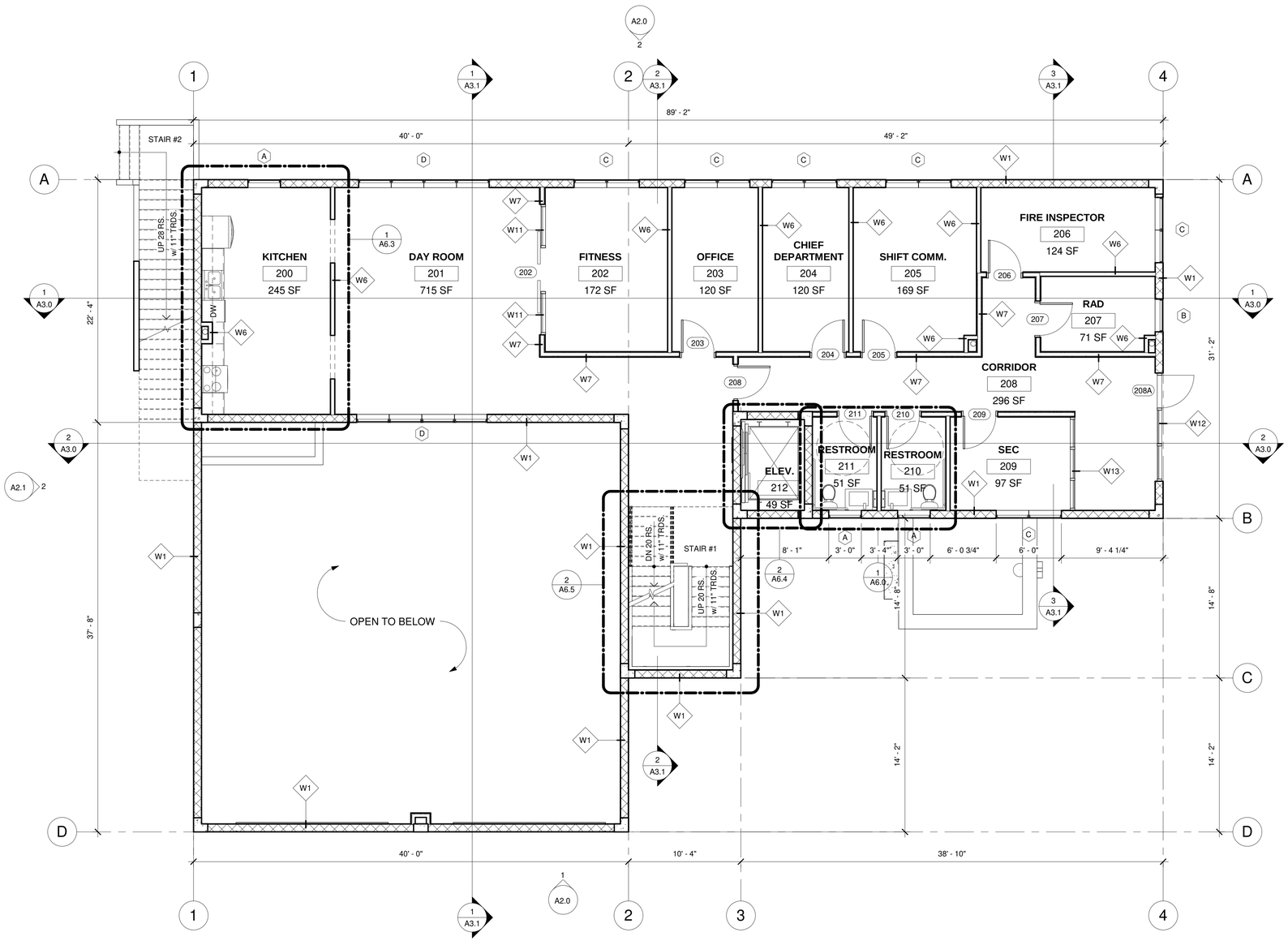
APPROVED BY: Approver

PROJECT NO.: 23-005.C
CONTRACT NO.: -

SHEET NO.: 1A1.3

FIRST LEVEL REFLECTED CEILING PLAN

LICENSED ARCHITECT
U.S. VIRGIN ISLANDS



1 SECOND LEVEL - IDENTIFICATION PLAN

3/16" = 1'-0"

REVISIONS		
NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

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CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
DRAWN BY:	Author
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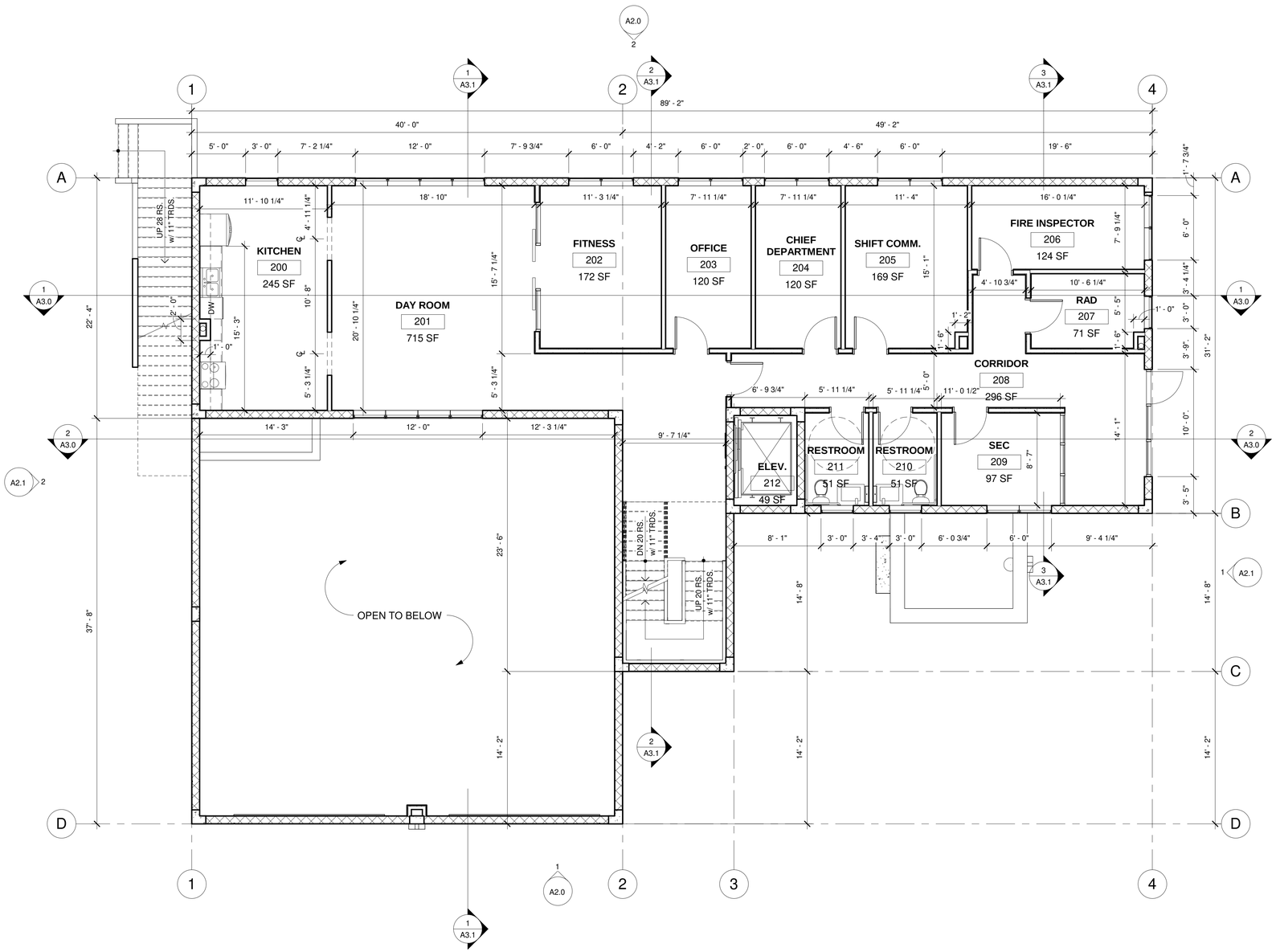
APPROVED BY:	Approver
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	2A1.0

SECOND LEVEL - IDENTIFICATION PLAN

LICENSED ARCHITECT — U.S. VIRGIN ISLANDS



1 SECOND LEVEL - DIMENSION PLAN

3/16" = 1'-0"

REVISIONS		
NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

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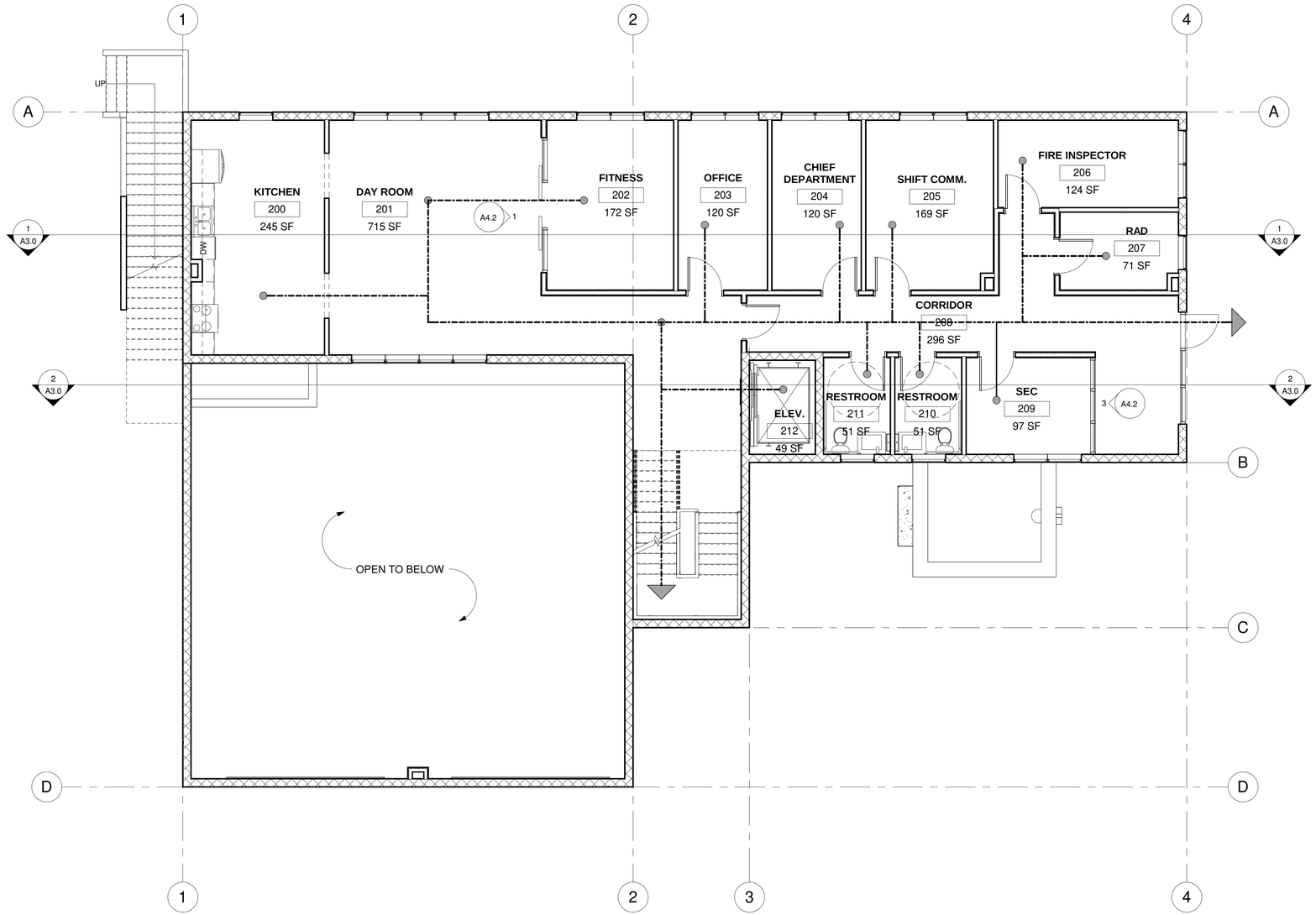
APPROVED BY:	Approver

PROJECT NO.: 23-005.C

CONTRACT NO.: -

SHEET NO.: 2A1.1

SECOND LEVEL DIMENSION PLAN



1 SECOND LEVEL LIFE SAFETY PLAN

3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

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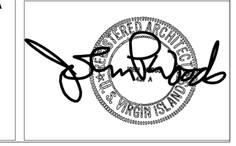
CONTRACT NO.: -

SHEET NO.: 2A1.2

SECOND LEVEL LIFE SAFETY PLAN

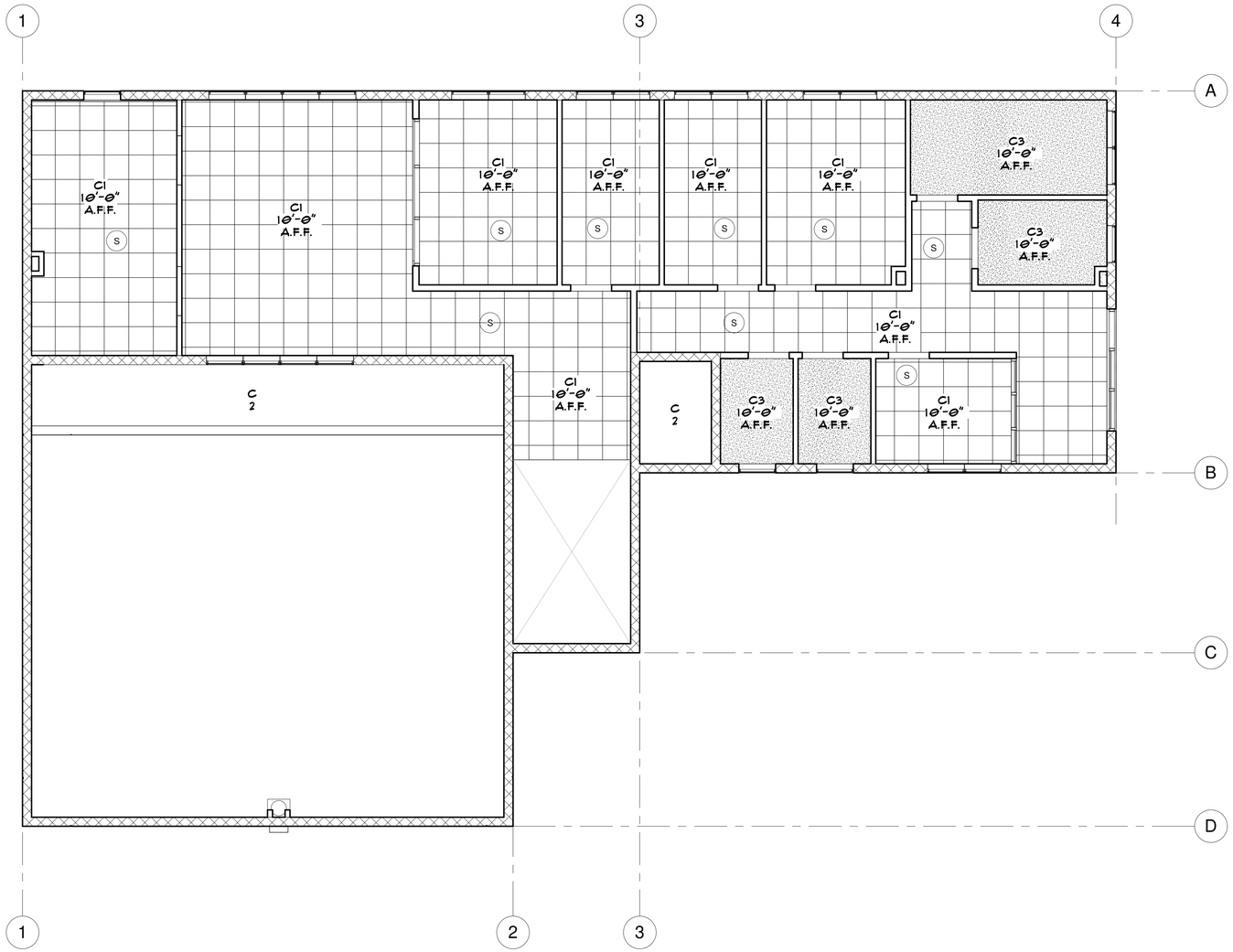


CEILING

C1 24X24 ACOUSTICAL CEILING TILE LAYOUT CENTERED IN ROOM OR CORRIDOR UNLESS OTHERWISE NOTED - ARMSTRONG BEVELED TEGULAR 3/16" INTERLUDE DIMENSIONAL TEE SYSTEM WITH 24"X24"X1" OPTIMA OPEN PLAN CEILING TILES (COLOR WHITE)

C2 PAINTED EXPOSED STRUCTURE

C3 PAINTED GYPUM WALL BOARD



1 SECOND LEVEL REFLECTED CEILING PLAN
3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

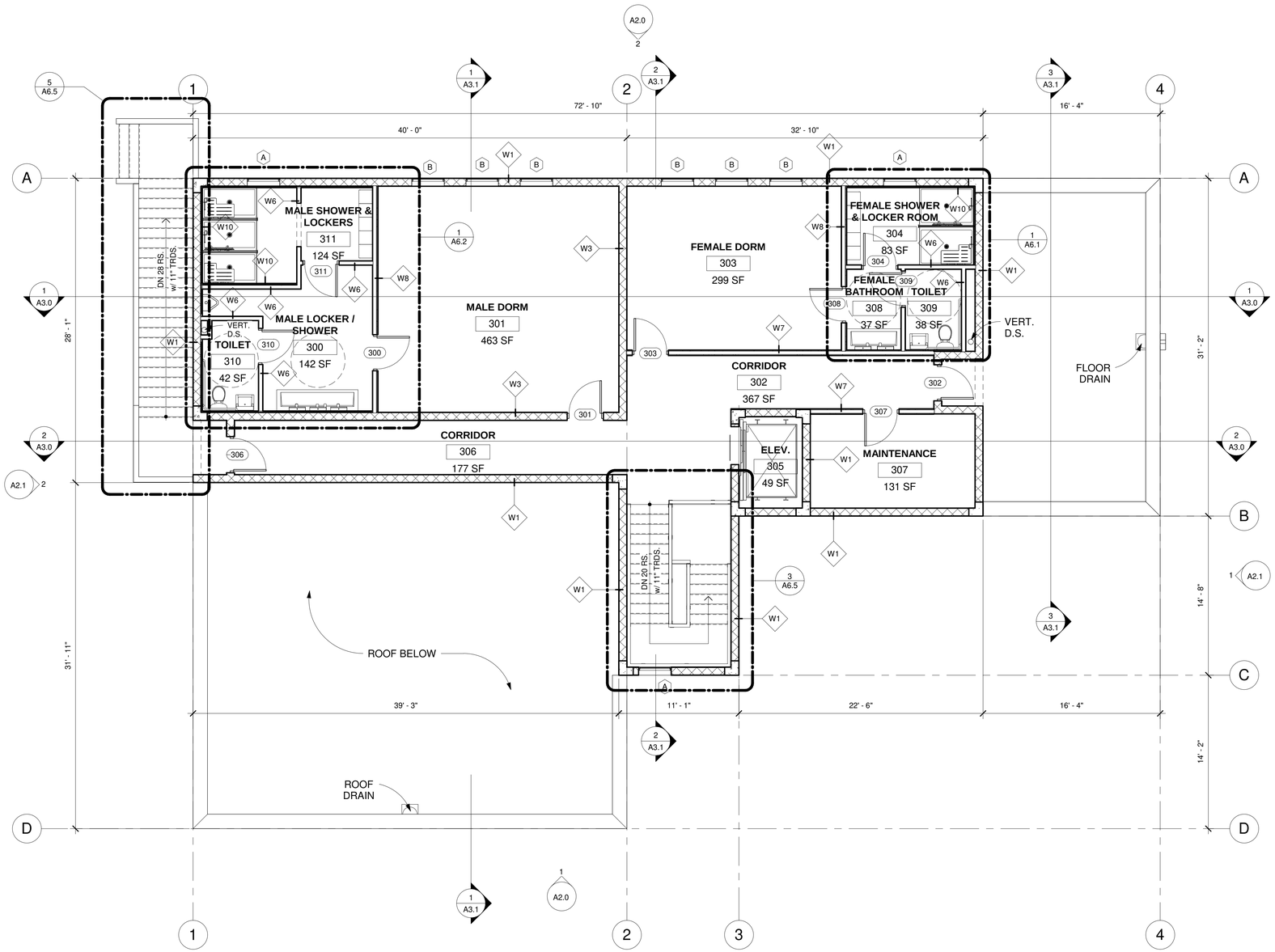
DATE: 04.22.2025
DRAWN BY: Author
CHECKED BY: Checker
APPROVED BY: Approver

PROJECT NO.: 23-005.C
CONTRACT NO.: -

SHEET NO.: 2A1.3

SECOND LEVEL REFLECTED CEILING PLAN

REGISTERED ARCHITECT U.S. VIRGIN ISLANDS



1 THIRD LEVEL - IDENTIFICATION PLAN

3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
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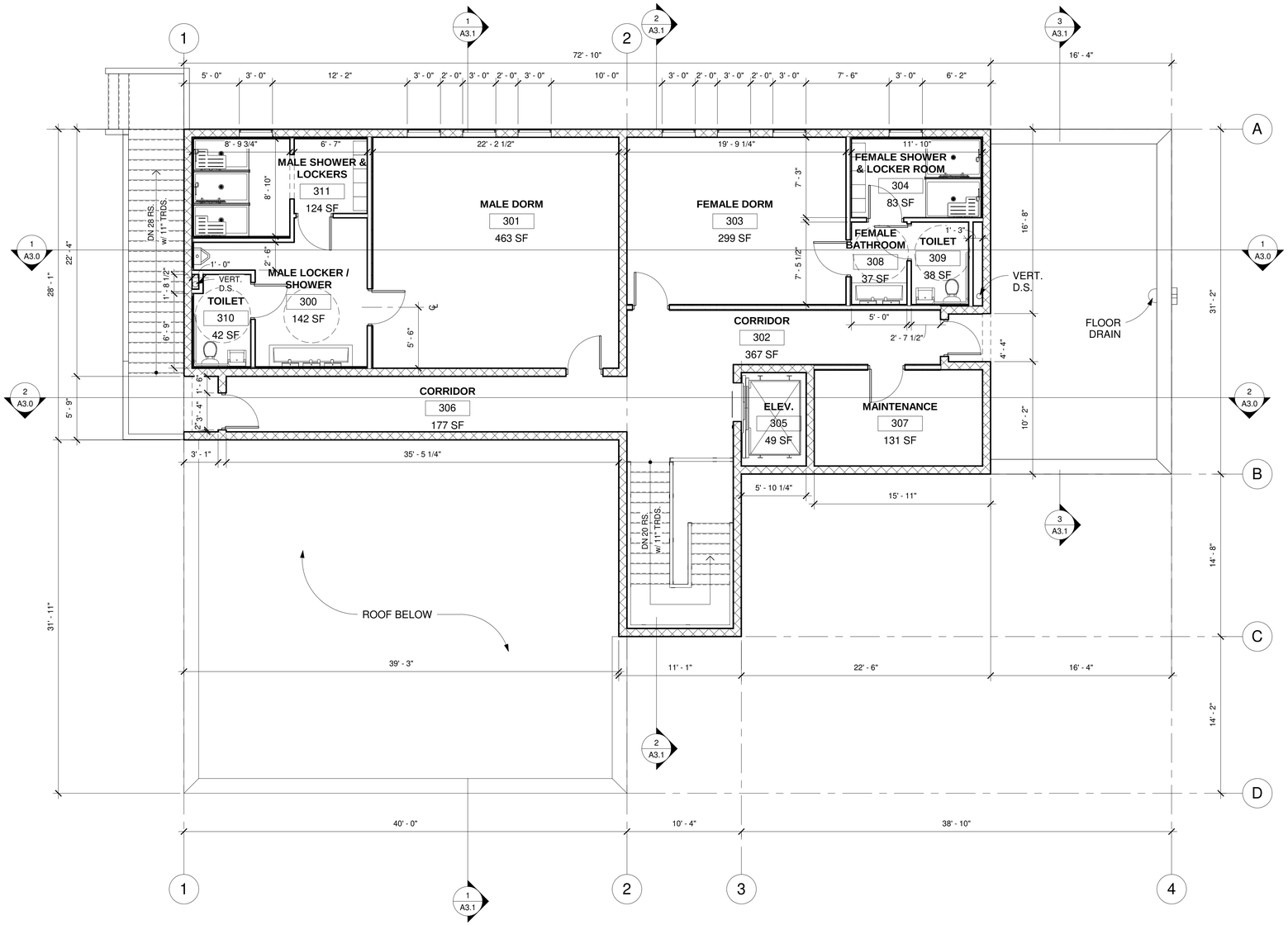
CONTRACT NO.:	-
SHEET NO.:	3A1.0

THIRD LEVEL IDENTIFICATION PLAN

REGISTERED ARCHITECT
U.S. VIRGIN ISLANDS



1 THIRD LEVEL - DIMENSION PLAN

3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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Architects, Engineers and Construction Managers

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CRUZ BAY-VIFEMS STATION

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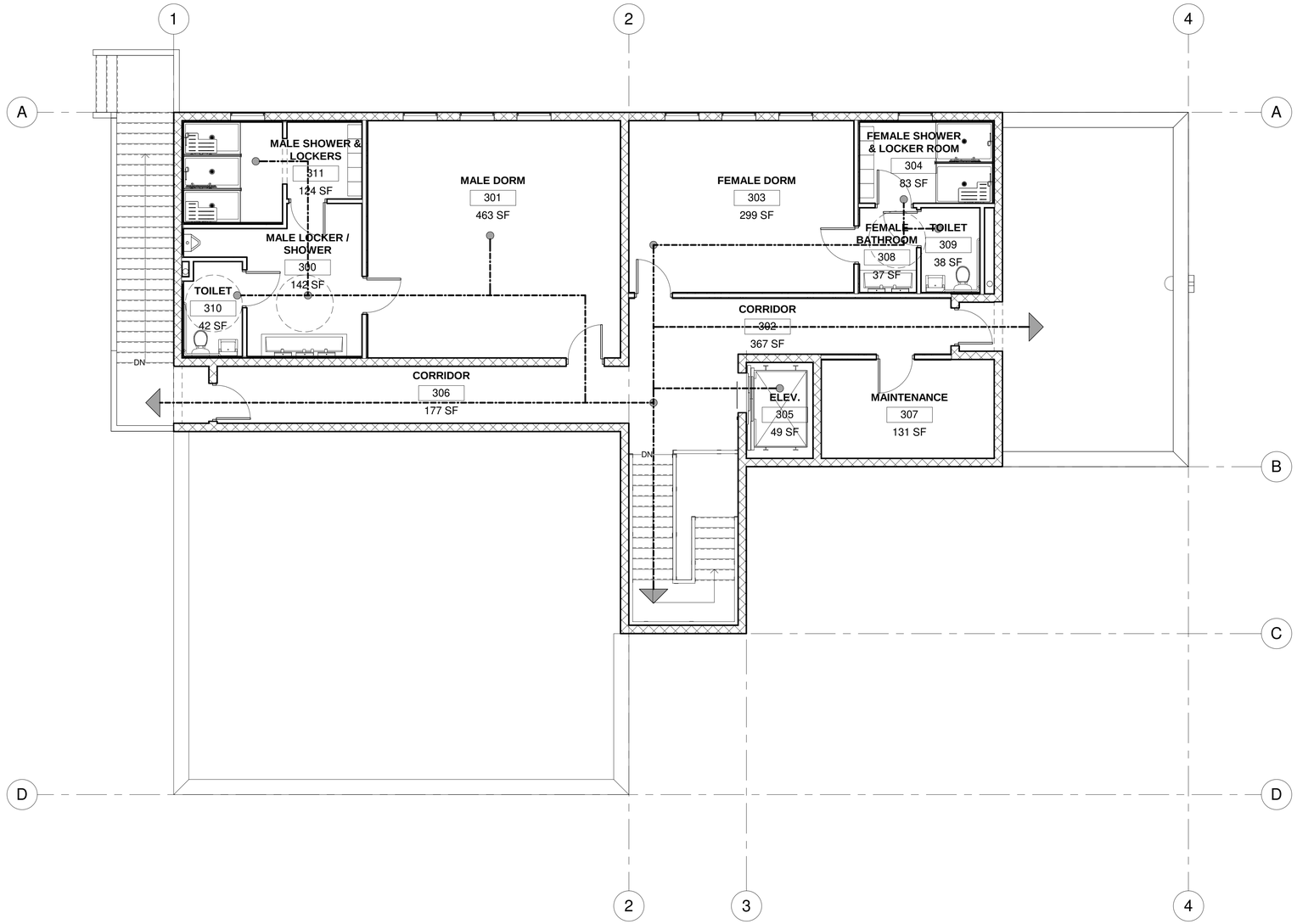
CONTRACT NO.:	-
SHEET NO.:	3A1.1

THIRD LEVEL DIMENSION PLAN

LICENSED ARCHITECT — U.S. VIRGIN ISLANDS



1 THIRD LEVEL LIFE SAFETY PLAN

3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

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ST. JOHN U.S.V.I

DATE: 04.22.2025

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APPROVED BY: Approver

PROJECT NO.: 23-005.C

CONTRACT NO.: -

SHEET NO.: 3A1.2

THIRD LEVEL LIFE SAFETY PLAN

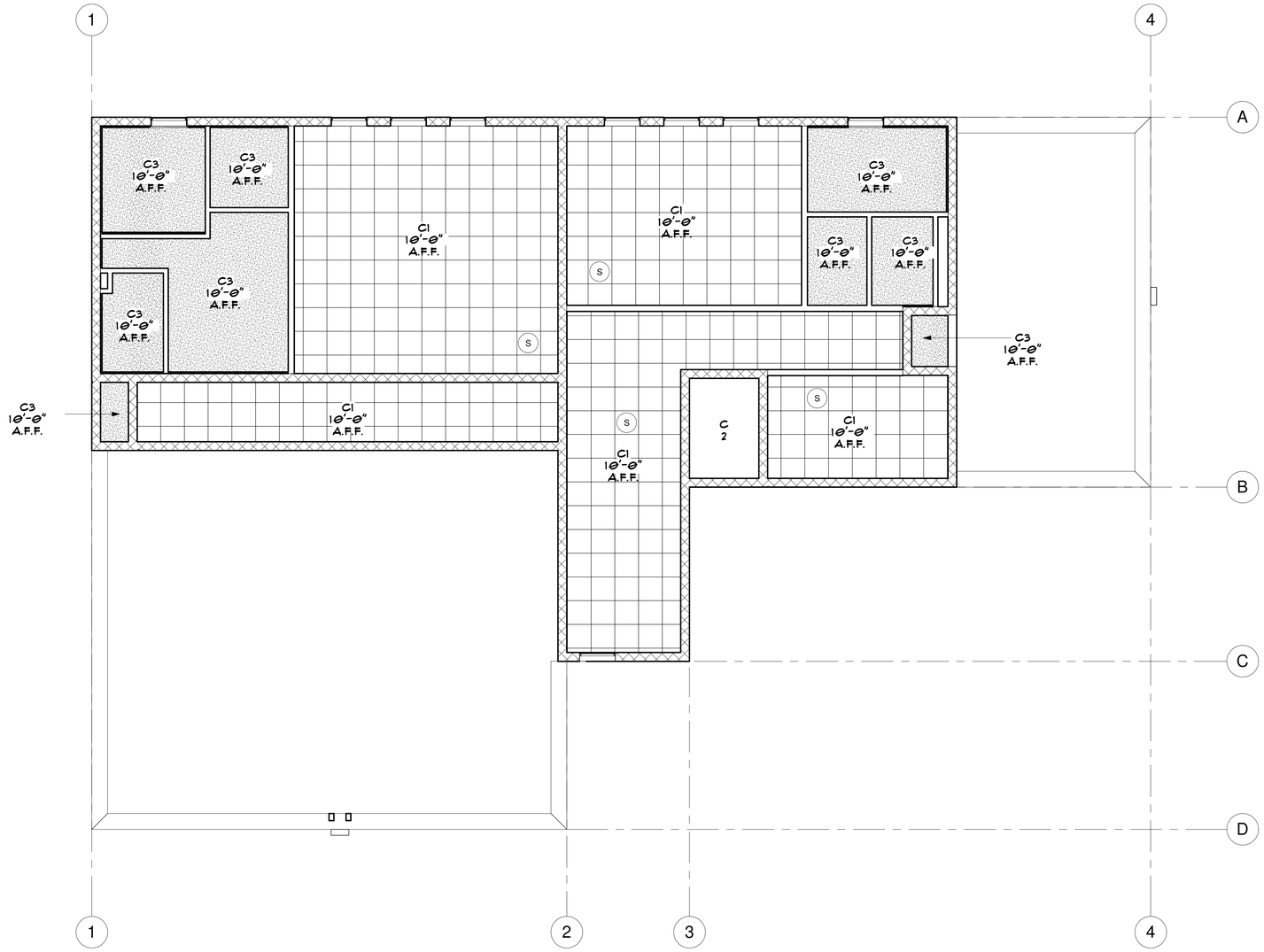
REGISTERED ARCHITECT U.S. VIRGIN ISLANDS

CEILING

C1 24X24 ACOUSTICAL CEILING TILE LAYOUT CENTERED IN ROOM OR CORRIDOR UNLESS OTHERWISE NOTED - ARMSTRONG BEVELED TEGULAR 3/16" INTERLUDE DIMENSIONAL TEE SYSTEM WITH 24"X24"X1" OPTIMA OPEN PLAN CEILING TILES (COLOR WHITE)

C2 PAINTED EXPOSED STRUCTURE

C3 PAINTED GYPUM WALL BOARD



1 THIRD LEVEL REFLECTED CEILING PLAN
3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

Jaredian Design Group
Architects, Engineers and Construction Managers
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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

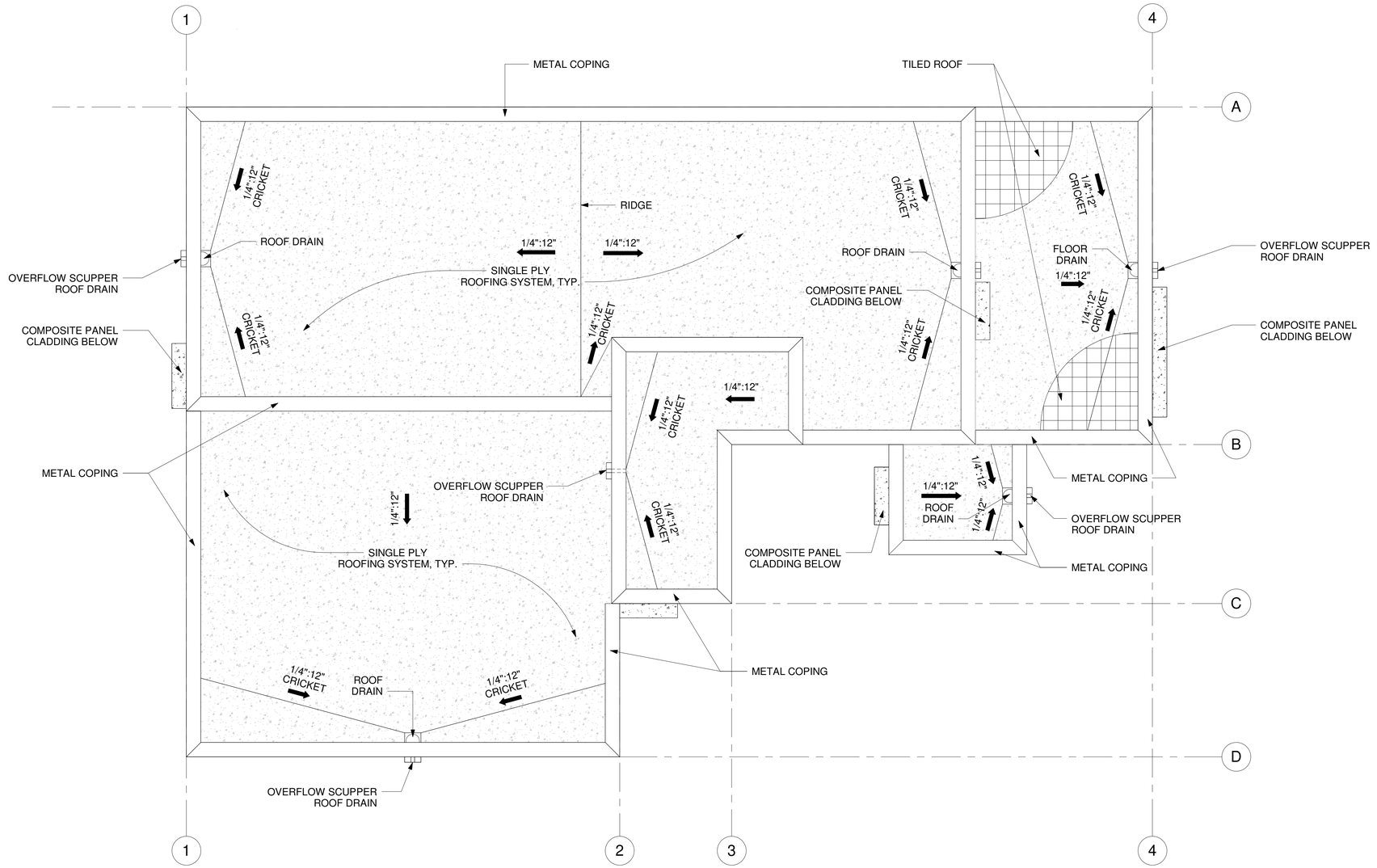
DATE: 04.22.2025
DRAWN BY: Author
CHECKED BY: Checker
APPROVED BY: Approver

PROJECT NO.: 23-005.C
CONTRACT NO.: -

SHEET NO.: 3A1.3

THIRD LEVEL REFLECTED CEILING PLAN

REGISTERED ARCHITECT U.S. VIRGIN ISLANDS



1 ROOF LEVEL
3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
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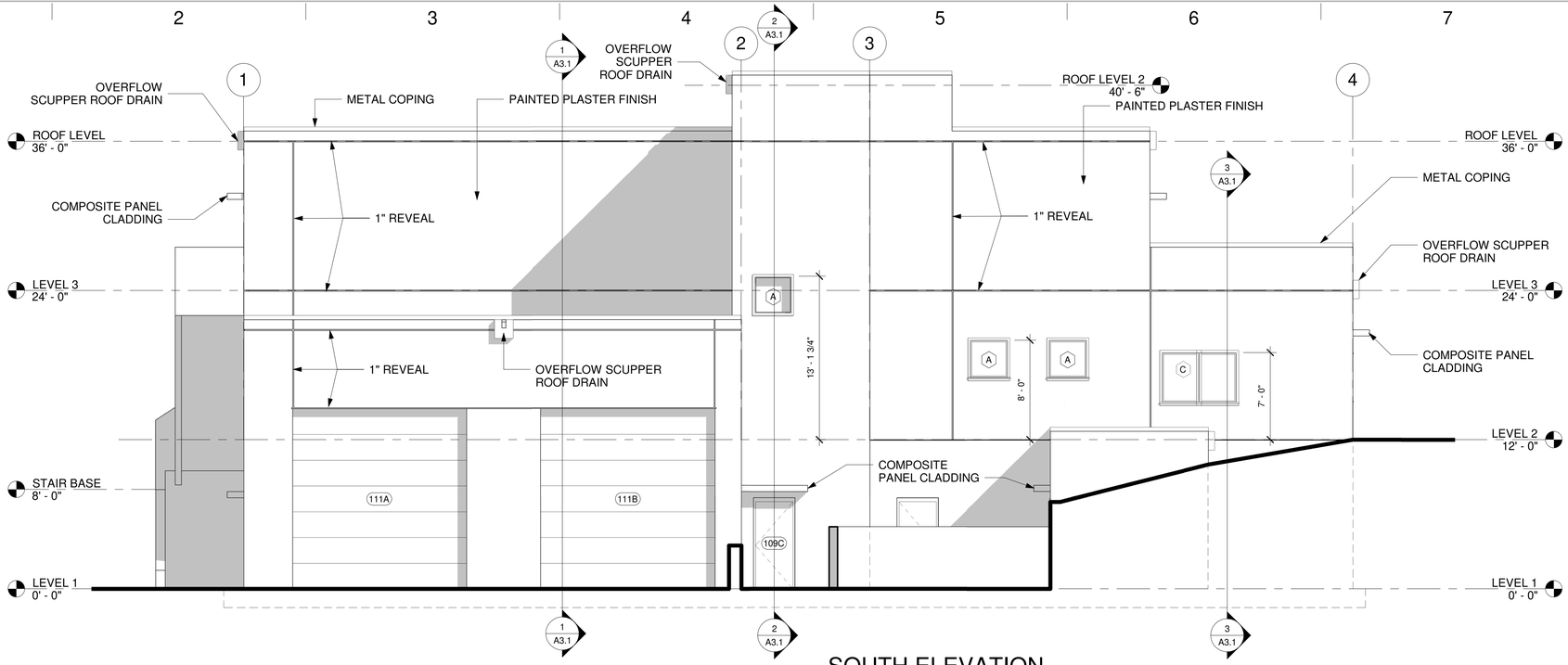
CHECKED BY:	Checker
APPROVED BY:	Approver
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	4A1.0

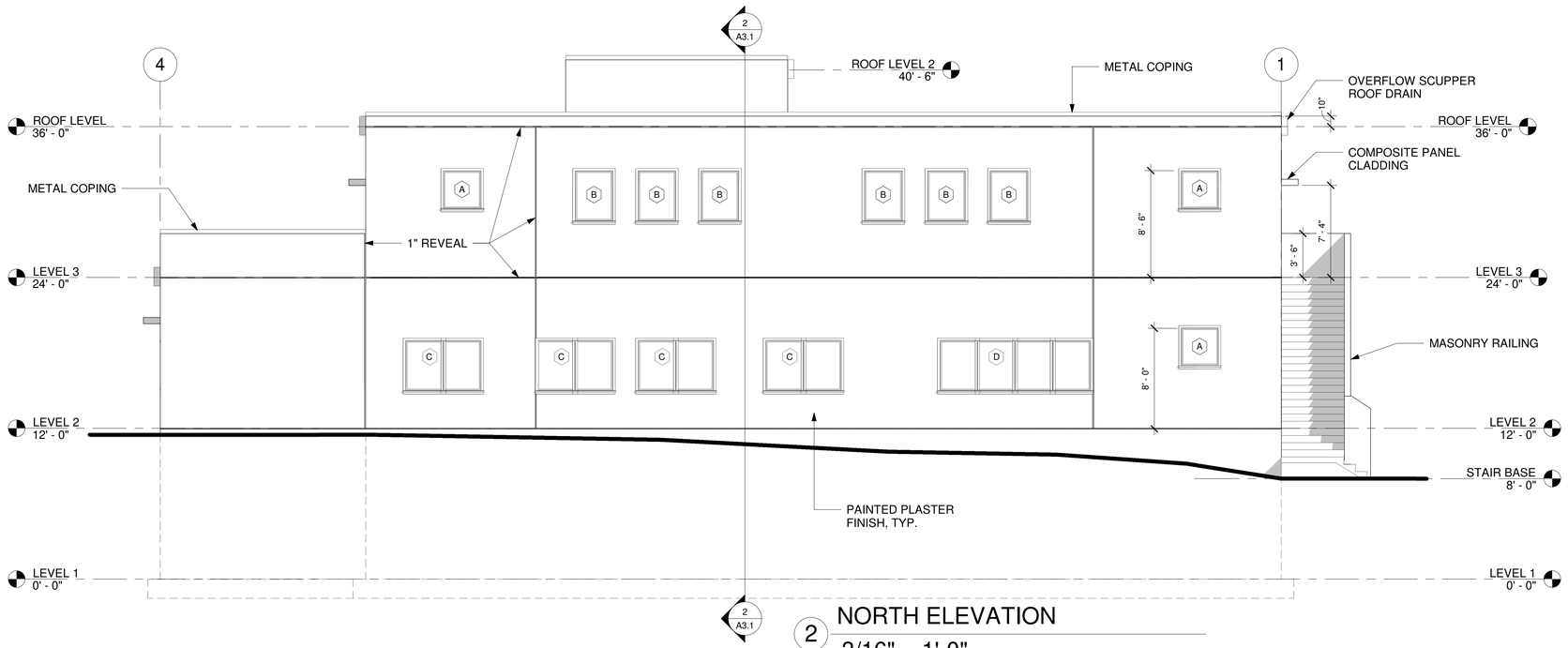
ROOF PLAN

LICENSED ARCHITECT
U.S. VIRGIN ISLANDS



1 SOUTH ELEVATION

3/16" = 1'-0"



2 NORTH ELEVATION

3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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Architects, Engineers and Construction Managers

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
DRAWN BY:	R.O.P
CHECKED BY:	J.P.W.
APPROVED BY:	J.P.W.

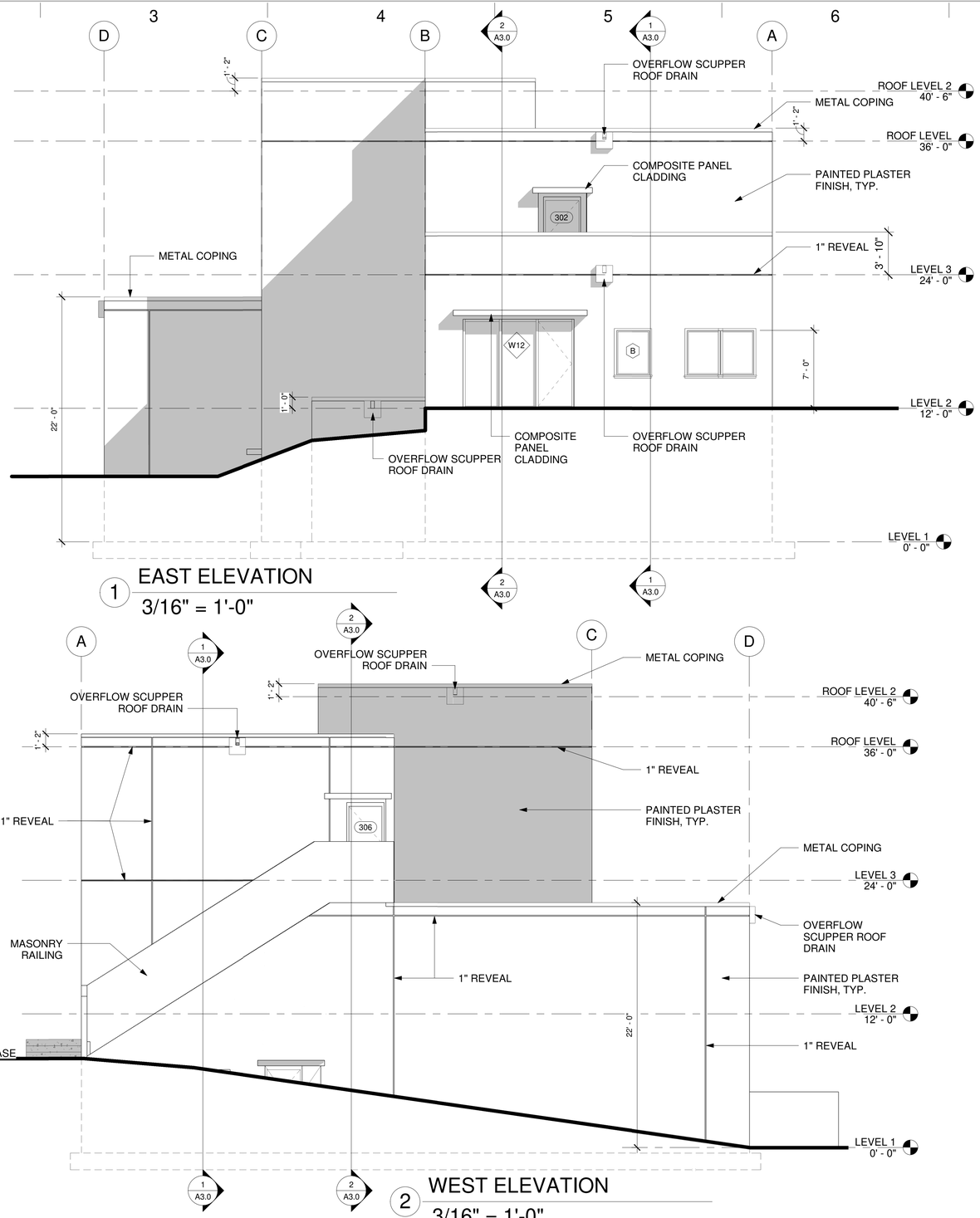
PROJECT NO.: 23-005.C

CONTRACT NO.: -

SHEET NO.: A2.0

BUILDING ELEVATIONS

REGISTERED ARCHITECT U.S.V.I. & VIRGIN ISLANDS USA



REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

JDG Jaredian Design Group
Architects, Engineers and Construction Managers

5143 Palm Passage,
Second Floor - Suites B24-25 St. Thomas,
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Post Office Box 6218
St. Thomas, U.S. Virgin Islands 00804-6218
telephone: 340.777.1600
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website: www.jaredian.com

CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

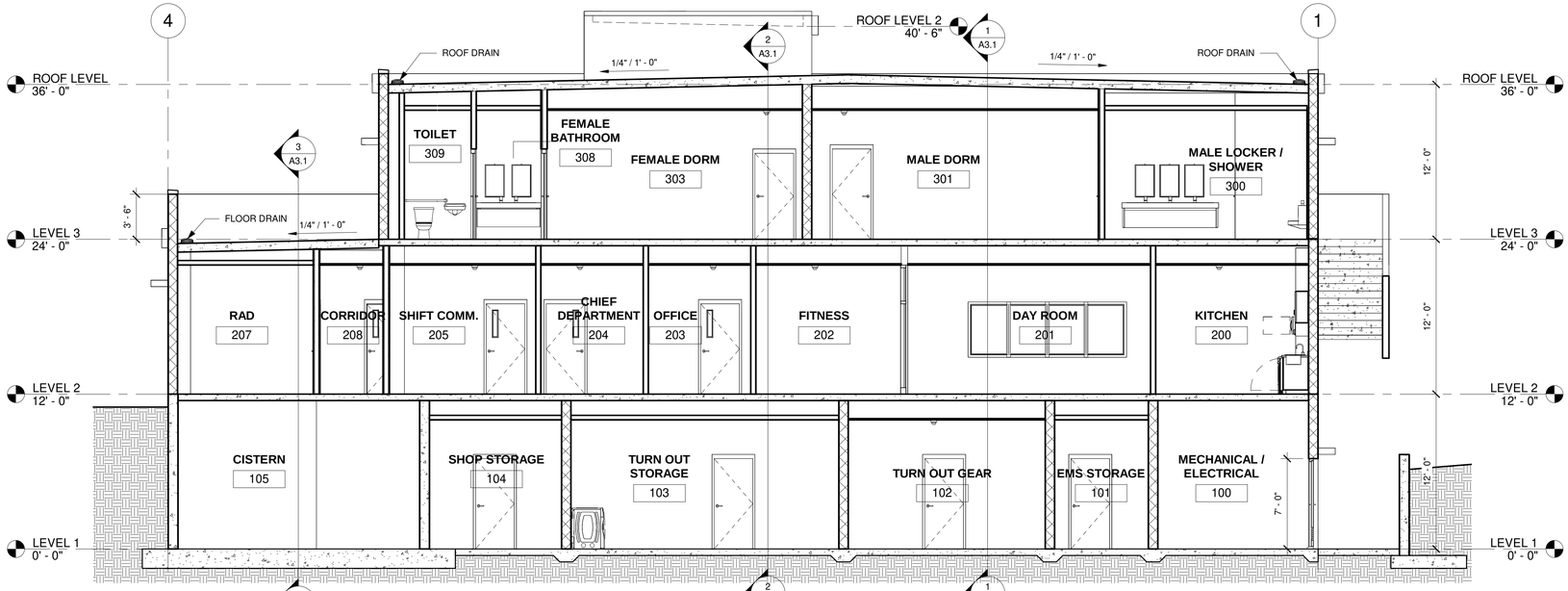
DATE: 04.22.2025
DRAWN BY: Author
CHECKED BY: Checker
APPROVED BY: Approver

PROJECT NO.: 23-005.C
CONTRACT NO.: -

SHEET NO.: A2.1

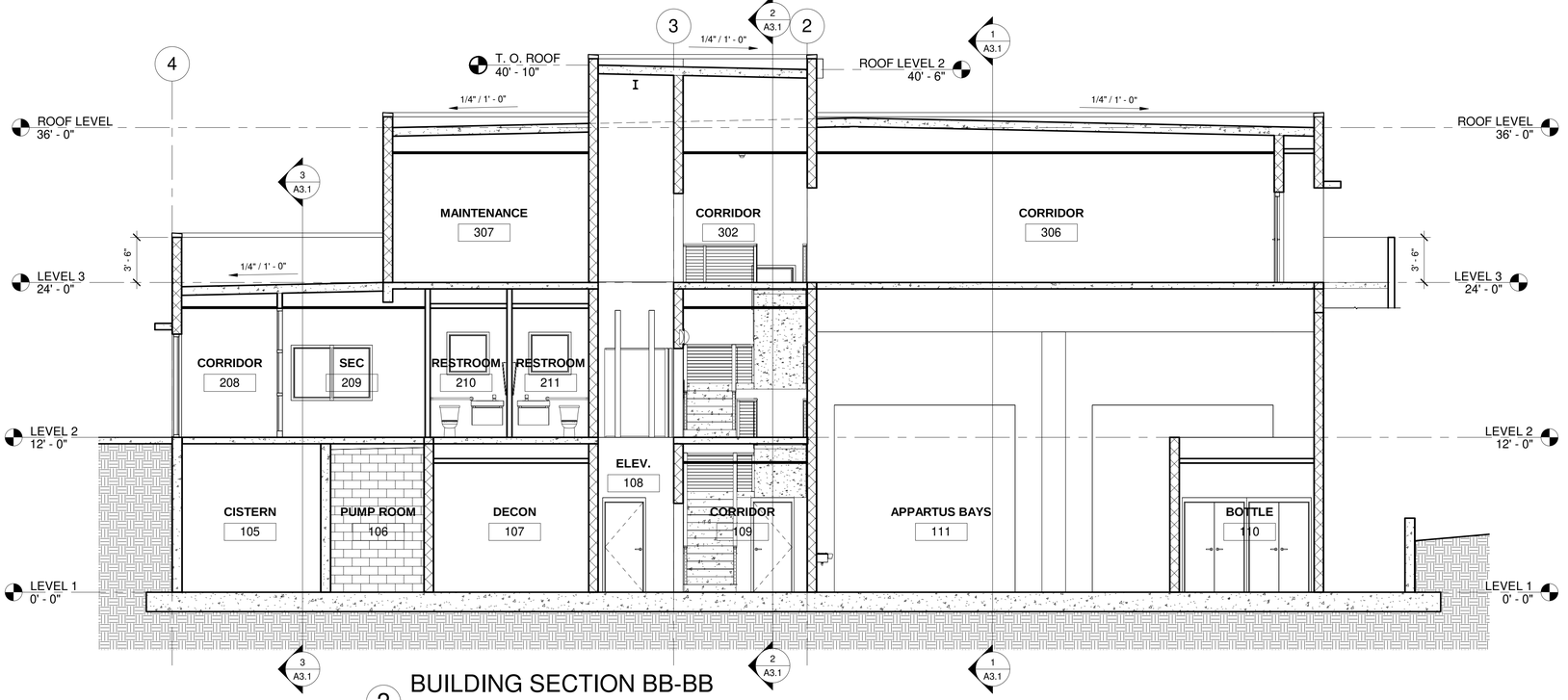
BUILDING ELEVATIONS

REGISTERED ARCHITECT U.S. VIRGIN ISLANDS



1 BUILDING SECTION AA-AA

3/16" = 1'-0"



2 BUILDING SECTION BB-BB

3/16" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

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Architects, Engineers and Construction Managers

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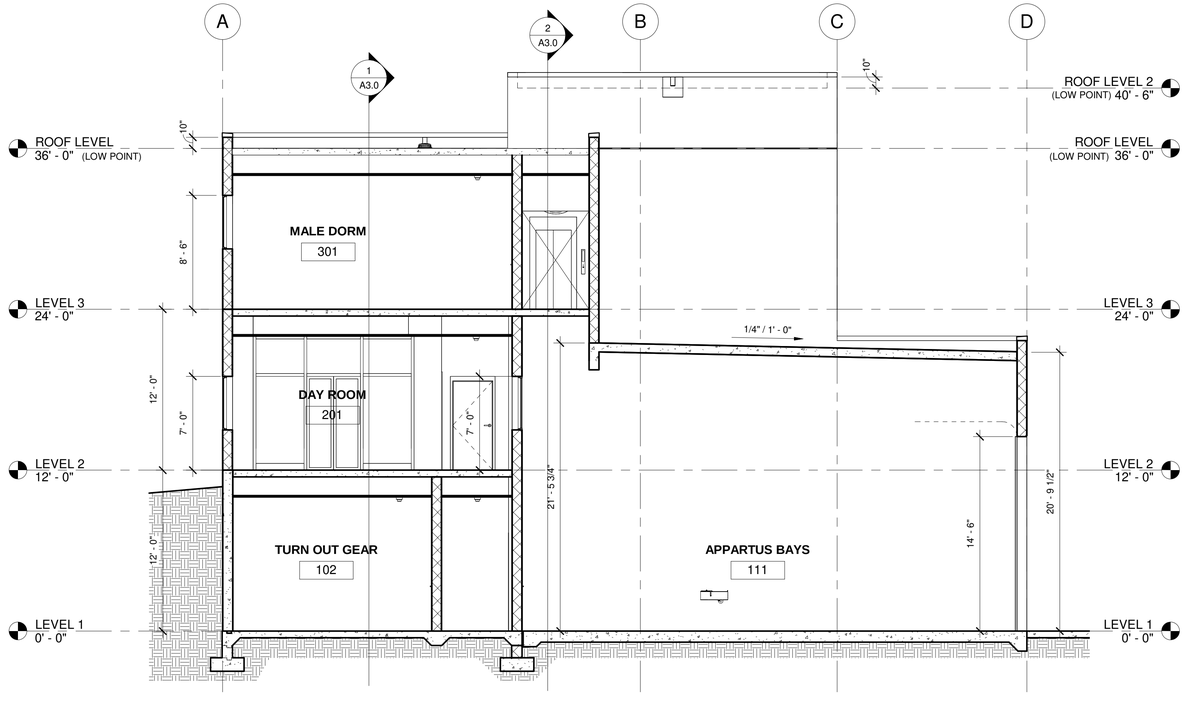
CONTRACT NO.:	-
SHEET NO.:	A3.0

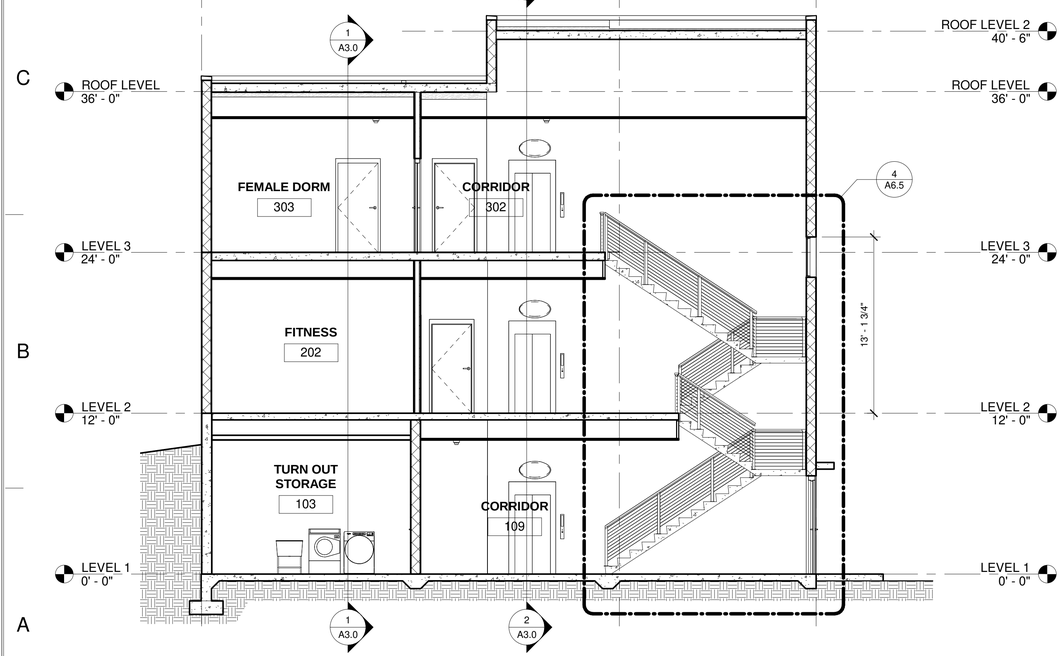
BUILDING SECTIONS

REGISTERED ARCHITECT U.S.V.I. & BRITISH VIRGIN ISLANDS



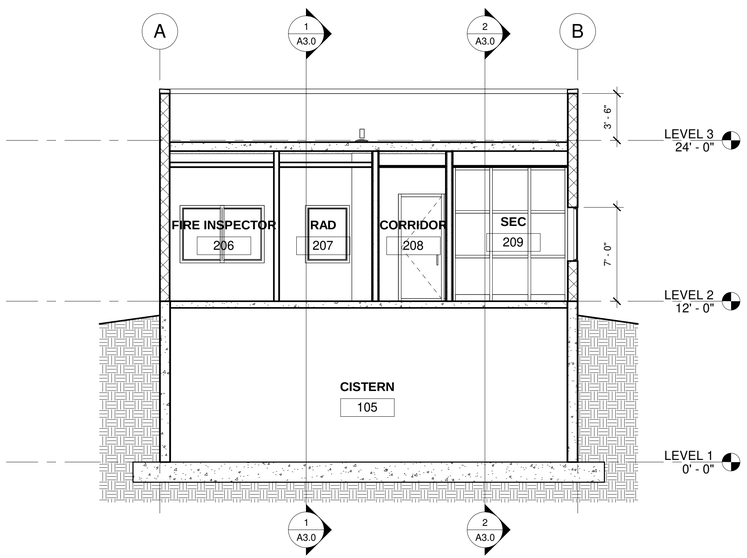
1 BUILDING SECTION CC-CC

3/16" = 1'-0"



2 BUILDING SECTION DD-DD

3/16" = 1'-0"



3 BUILDING SECTION EE-EE

3/16" = 1'-0"

REVISIONS		
NO.	DATE	REMARKS

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BUILDING SECTIONS

REGISTERED ARCHITECT U.S. VIRGIN ISLANDS

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALL				CEILING			REMARKS
		FIN	FIN	NORTH FIN	SOUTH FIN	EAST FIN	WEST FIN	FIN	HEIGHT	MOLDING	
100	MECHANICAL / ELECTRICAL										
101	EMS STORAGE										
102	TURN OUT GEAR										
103	TURN OUT STORAGE										
104	SHOP STORAGE										
105	CISTERN										
106	PUMP ROOM										
107	DECON										
108	ELEV.										
109	CORRIDOR										
110	BOTTLE										
111	APPARTUS BAYS										
200	KITCHEN										
201	DAY ROOM										
202	FITNESS										
203	OFFICE										
204	CHIEF DEPARTMENT										
205	SHIFT COMM.										
206	FIRE INSPECTOR										
207	RAD										
208	CORRIDOR										
209	SEC										
210	RESTROOM										
211	RESTROOM										
212	ELEV.										
300	MALE LOCKER / SHOWER										
301	MALE DORM										
302	CORRIDOR										
303	FEMALE DORM										
304	FEMALE SHOWER & LOCKER ROOM										
305	ELEV.										
306	CORRIDOR										
307	MAINTENANCE										
308	FEMALE BATHROOM										
309	TOILET										
310	TOILET										
311	MALE SHOWER & LOCKERS										
Grand total: 37											

DOOR SCHEDULE

DOOR MARK	DESCRIPTION	Type Mark	WIDTH	HEIGHT	THICKNESS	FUNCTION	COMMENTS
100	EXTERNAL LOUVER DOOR: 7'-0"	07	6' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
101	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
102	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
103	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
104	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
106	SINGLE_FLUSH_DOOR_W_LOUVER_5257: 36" X 7'-0"	12	3' - 0"	7' - 0"	0' - 2"	Interior	
107	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
108	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
109A	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
109B	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
109C	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
110A	Door-Passage-Double-Flush: 56" x 84"	08	4' - 8"	7' - 0"	0' - 1 3/4"	Exterior	
110B	Door-Passage-Double-Flush: 56" x 84"	08	4' - 8"	7' - 0"	0' - 1 3/4"	Exterior	
111A	Door-Overhead-Sectional: 14'-6" x 14'-0"	09	14' - 0"	14' - 6"	0' - 1 1/2"	Exterior	
111B	Door-Overhead-Sectional: 14'-6" x 14'-0"	09	14' - 0"	14' - 6"	0' - 1 1/2"	Exterior	
202	Curtain Wall Double Sliding Door: Store Front Double Door	04	4' - 0"	7' - 0"	0' - 3"	Exterior	
203	Door-Passage-Single-Vision_Lite: 36" x 84"	03	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
204	Door-Passage-Single-Vision_Lite: 36" x 84"	03	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
205	Door-Passage-Single-Vision_Lite: 36" x 84"	03	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
206	Door-Passage-Single-Vision_Lite: 36" x 84"	03	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
207	Door-Passage-Single-Vision_Lite: 36" x 84"	03	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
208	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
208A	Door-Curtain-Wall-Single-Glass: Door-Curtain-Wall-Single-Glass	01	3' - 0"	7' - 7"		Exterior	
209	Door-Passage-Single-Vision_Lite: 36" x 84"	03	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
210	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
211	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
300	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
301	Door-Passage-Single-Flush: 36" x 84"	10	3' - 0"	7' - 0"	0' - 1 3/4"	Exterior	
302	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
303	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
304	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
306	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
307	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
308	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
309	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
310	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
311	Door-Passage-Single-Flush: 36" x 80"	02	3' - 0"	6' - 8"	0' - 1 3/4"	Exterior	
Grand total: 37							

INTERIOR FINISH SCHEDULE KEY

FLOOR

F1 IMPERVIOUS TILE FLOORING

F2 EPOXY RESIN SEAMLESS FIELD APPLIED FLOORING

CEILING

C1 24X24 ACOUSTICAL CEILING TILE - ARMSTRONG BEVELED TEGULAR 3/16" INTERLUDE DIMENSIONAL TEE SYSTE, WITH 24"X24"X1" OPTIMA OPEN PLAN CEILING TILES (COLOR WHITE)

C2 PAINTED EXPOSED STRUCTURE

C3 PAINTED GYPUM WALL BOARD

WALL BASE

B1 VINYL COVE BASE

WALL FINISH

P1 PAINTED FINISH

P2 PLASTER FINISH

WALL MATERIAL

T TILE

CMU CONCRETE MASONRY UNIT

CWB CEMENT WALL BOARD

GWB MOISTURE & MILDEW RESISTANT GYPSUM WALL BOARD

PNT PAINTED FINISH

CONC. CONCRETE

WINDOW SCHEDULE

TYPE	DESCRIPTION	SIZE WIDTH	SIZE HEIGHT	HEADER HEIGHT A.F.F.	MANUFACTURER	GLASS TYPE	MATERIAL	COLOR	REMARKS
A	36" x 36"	3' - 0"	3' - 0"						
B	36" x 48"	3' - 0"	4' - 0"						
C	TWIN 36" x 48"	6' - 0"	4' - 0"						
D	QUAD 36" x 48"	12' - 0"	4' - 0"						

WALL SCHEDULE

TYPE MARK	WALL TYPE	FAMILY	TYPE	WIDTH	DESCRIPTION
		Basic Wall	<varies>	<varies>	<varies>
W1		Basic Wall	8" CMU - TYPE A	0' - 9"	8" CMU WALL REINFORED WITH 1-#6 VERTICAL REINF. @ 8" O.C. IN FULLY GROUTED CELL AND DURO-WALL HORIZONTAL REINF. @ 16" O.C.
W3		Basic Wall	8" CMU - TYPE B	0' - 9"	8" CMU WALL REINFORED WITH 1-#5 VERTICAL REINF. @ 8" O.C. IN FULLY GROUTED CELL AND DURO-WALL HORIZONTAL REINF. @ 16" O.C.
W4		Basic Wall	8" CONCRETE - TYPE A	0' - 9 1/2"	8" POURED CONCRETE WALL REINFORED WITH 1-#6 VERTICAL REINF. @ 10" O.C. AND 1-#5 HORIZONTAL REINF. @ 10" O.C.
W6		Basic Wall	5" STUD WALL - TYPE A	0' - 5"	ONE LAYER 5/8" SHEETROCK WATER & MOLD RESISTANT GYPSUM PANEL (UL TYPE SCX) WITH 3-5/8" STEEL STUDS, EQ20 (0.018"), AT 16" O.C. 3-1/2" FIBERGLASS INSULATION. ONE LAYER 5/8" SHEETROCK GYPSUM PANEL (UL TYPE SCX)
W7		Basic Wall	5" STUD WALL - TYPE B	0' - 6"	TWO LAYERS 5/8" SHEETROCK WATER & MOLD RESISTANT GYPSUM PANEL (UL TYPE SCX) WITH 3-5/8" STEEL STUDS, EQ20 (0.018"), AT 16" O.C. 2-1/2". FIBERGLASS INSULATION TWO LAYERS 5/8" SHEETROCK GYPSUM PANEL (UL TYPE SCX)
W8		Basic Wall	6" STUD WALL	0' - 6"	TWO LAYERS 5/8" SHEETROCK ECOSMART GYPSUM PANEL (UL TYPE ULIX™) WITH 1/2" RESILIENT CHANNEL, 25 GA. (0.018"), 24" [610 MM] O.C. 3-5/8" STEEL STUDS, EQ25 (0.015"), AT 24" O.C. 3-1/2" FIBERGLASS INSULATION ONE LAYER 5/8" [15.9 MM] SHEETROCK ECOSMART GYPSUM PANEL (UL TYPE ULIX™)
W9		Basic Wall	FURRED WALL WITH 5/8" CEMENT BOARD	0' - 1 1/2"	1-1/2" FURRED WALL WITH METAL 7/8" FURRING CHANNEL SYSTEMS AND SINGLE LAYER 5/8" MOISTURE AND MOLD RESISTANT CEMENT BOARD
W10		Curtain Wall	STOREFRONT - CURTAIN WALL		IMPACT RESISTANT WINDOW GLASS ASSEMBLY WITH 2-1/2 X 6" METAL BORDER AND MULLIONS.
W11		Curtain Wall	Storefront		IMPACT RESISTANT WINDOW GLASS ASSEMBLY WITH 2-1/2 X 6" METAL BORDER AND MULLIONS.
W13					

REVISIONS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE: 04.22.2025
DRAWN BY: Author
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PROJECT NO.: 23-005.C
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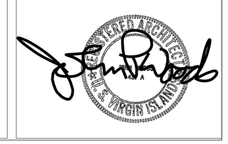
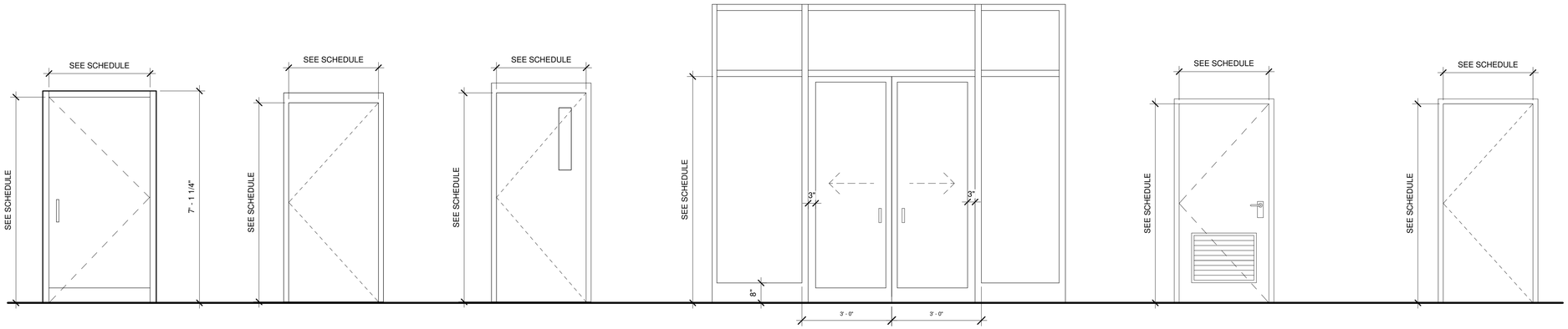
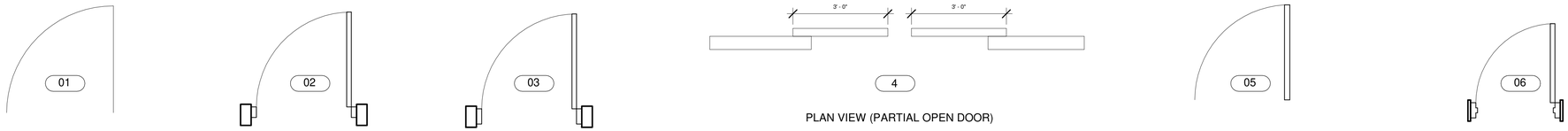
SHEET NO.: A4.0

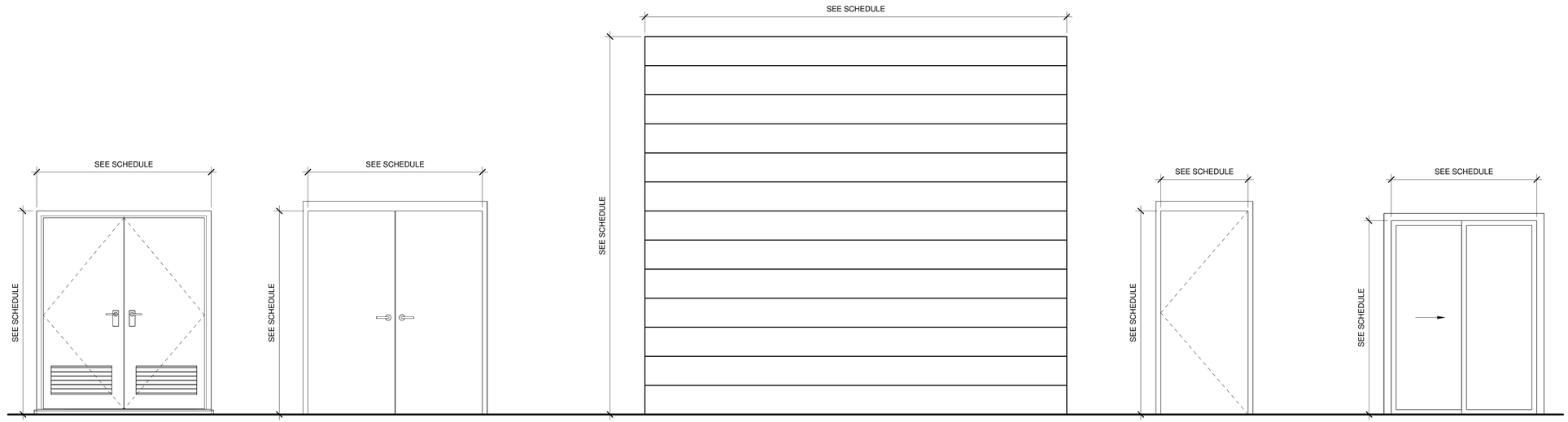
SCHEDULES







PLAN VIEW (PARTIAL OPEN DOOR)



DOOR ELEVATIONS

1/2" = 1'-0"

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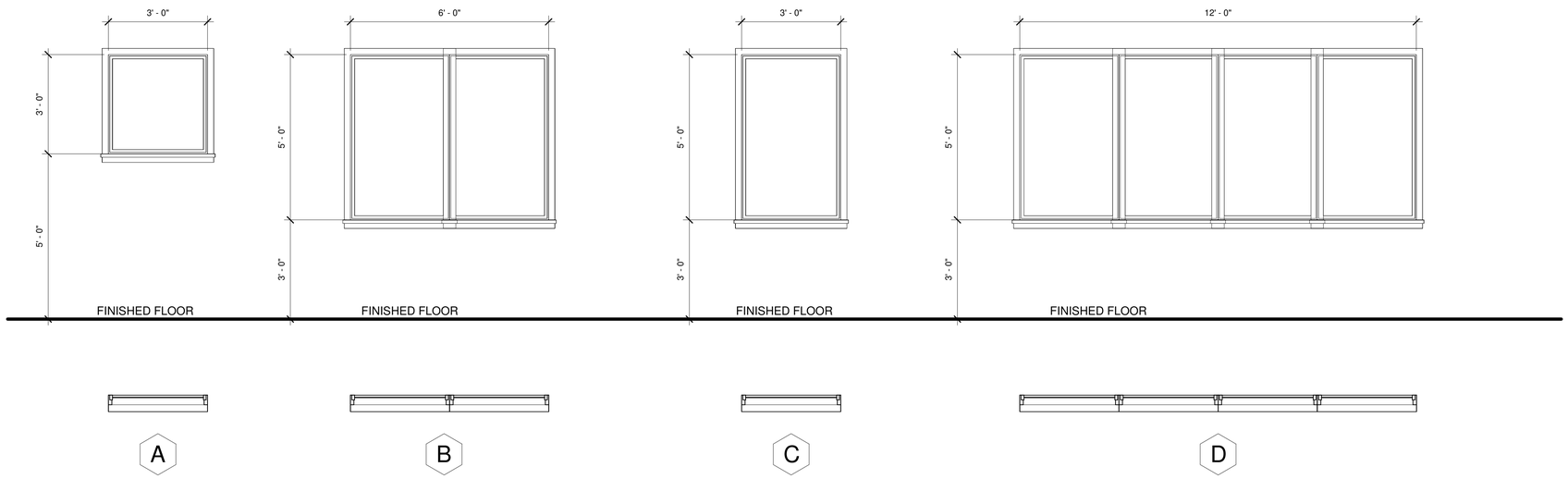
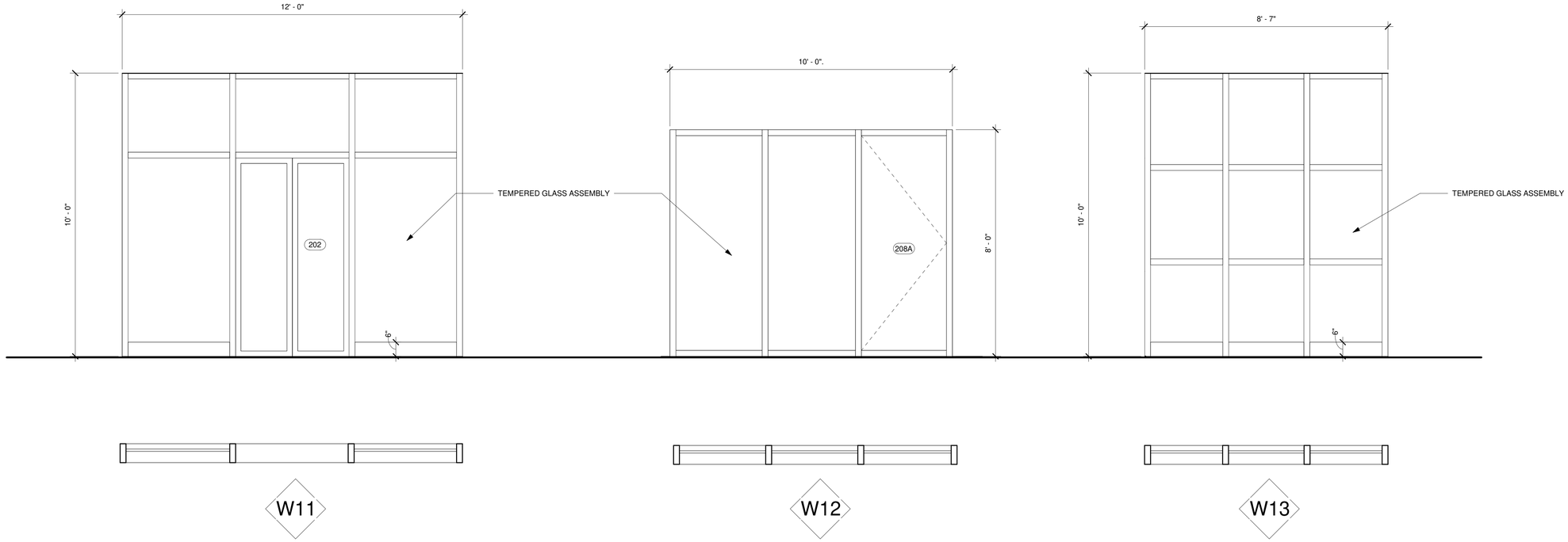
DOOR ELEVATIONS

LICENSED ARCHITECT
U.S.V.I. & VIRGIN ISLANDS
U.S.A.





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WINDOW ELEVATIONS

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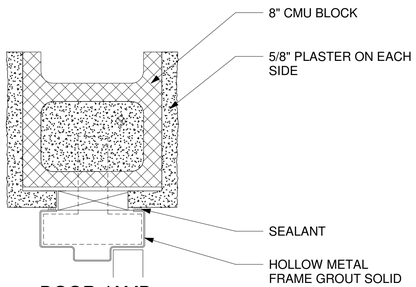
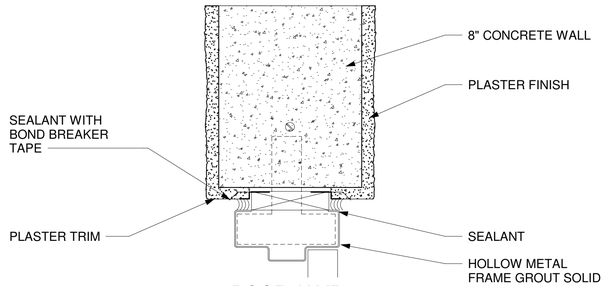
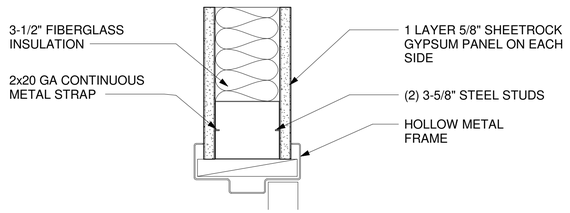


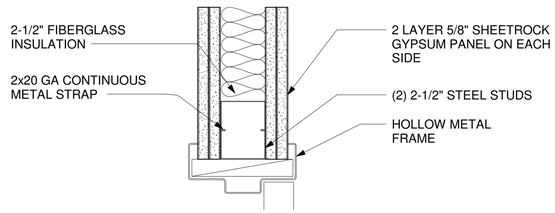
DOOR JAMB
8" CMU



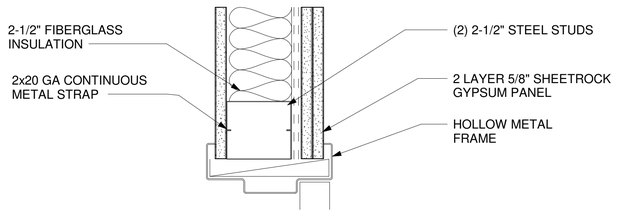
DOOR JAMB
8" CONCRETE



DOOR JAMB
5" STUD TYPE A



DOOR JAMB
5" STUD TYPE B



DOOR JAMB
6" STUD

1 JAMB DETAILS

3" = 1'-0"

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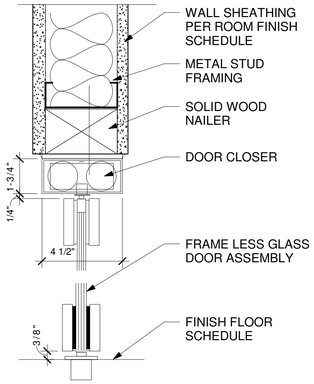
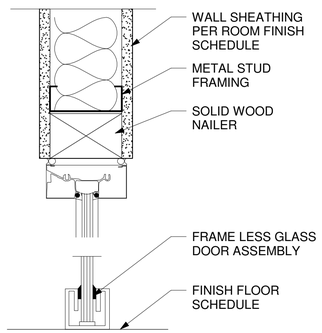
JAMB DETAILS

LICENSED ARCHITECT
U.S. VIRGIN ISLANDS
USA



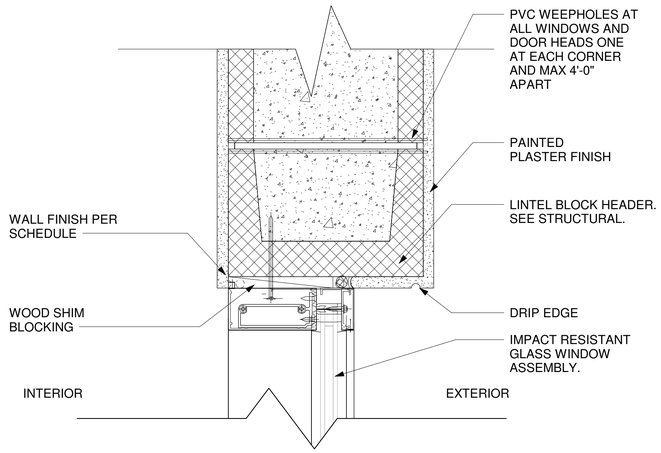
HEADER DETAIL AT DOOR



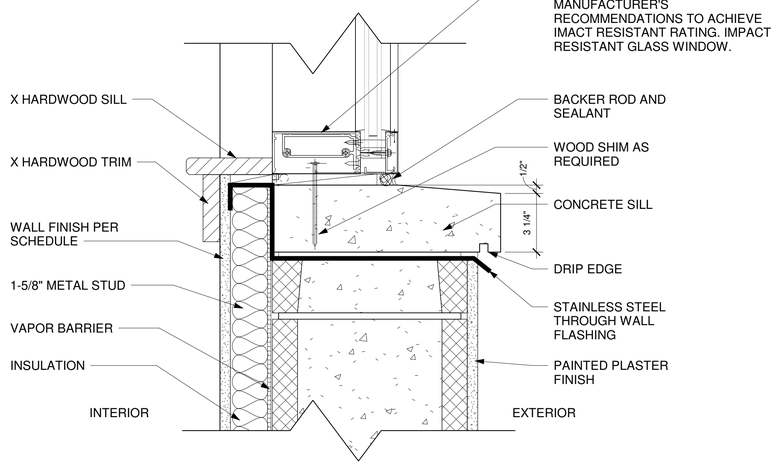
HEADER DETAIL AT GLASS

1 HEADER AND JAMB DETAILS

3" = 1'-0"



WINDOW HEADER DETAIL



WINDOW SILL DETAIL

2 WINDOW HEADER AND SILL DETAIL

3" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

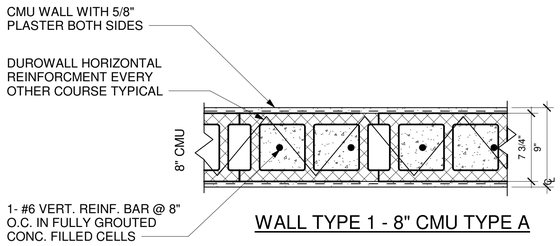
DATE:	04.22.2025
DRAWN BY:	B.J.S.
CHECKED BY:	J.P.W.
APPROVED BY:	J.P.W.

PROJECT NO.: 23-005.C

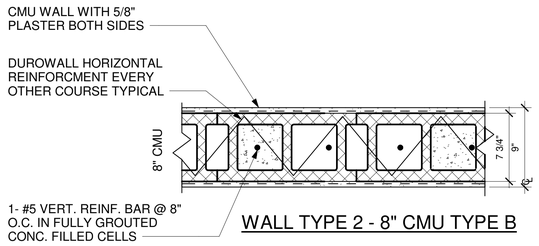
CONTRACT NO.: -

SHEET NO.: A4.4

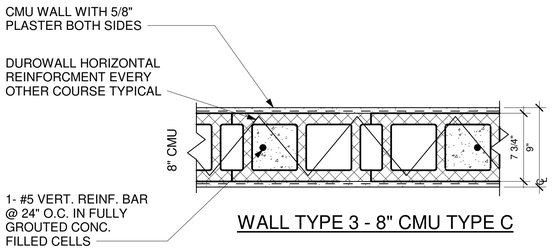
JAMB DETAILS



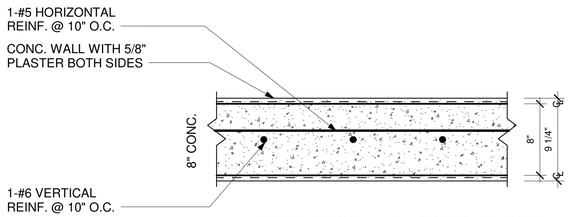
WALL TYPE 1 - 8" CMU TYPE A



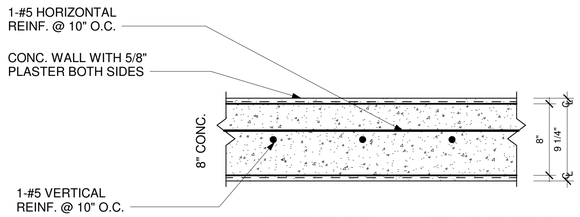
WALL TYPE 2 - 8" CMU TYPE B



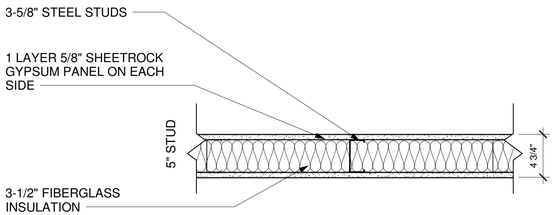
WALL TYPE 3 - 8" CMU TYPE C



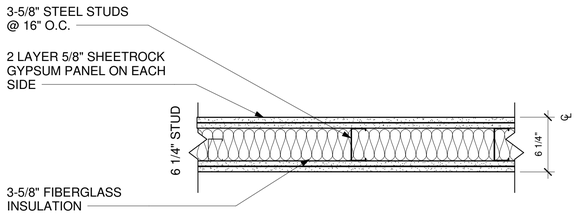
WALL TYPE 4 - 8" CONC. TYPE A



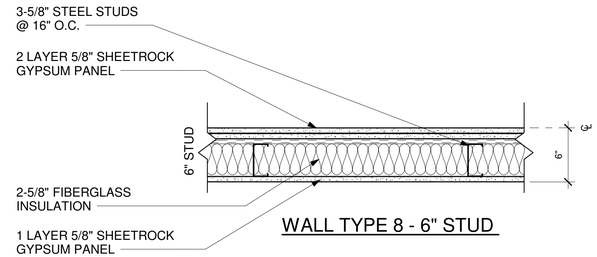
WALL TYPE 5 - 8" CONC. TYPE B



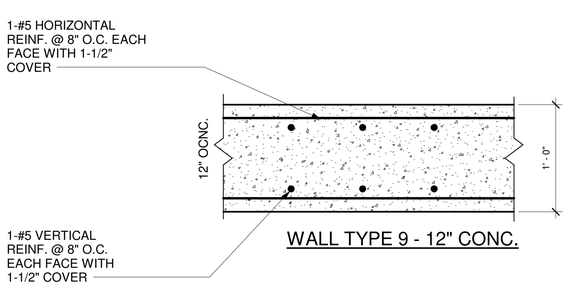
WALL TYPE 6 - 5" STUD TYPE A



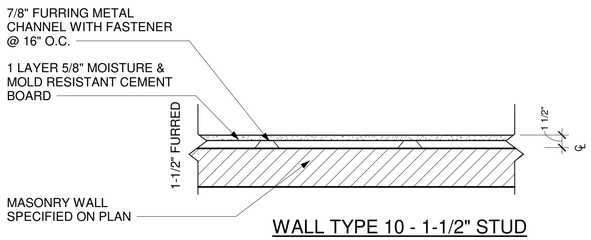
WALL TYPE 7 - 6 1/4" STUD TYPE B



WALL TYPE 8 - 6" STUD



WALL TYPE 9 - 12" CONC.



WALL TYPE 10 - 1-1/2" STUD

1 WALL DETAILS

1 1/2" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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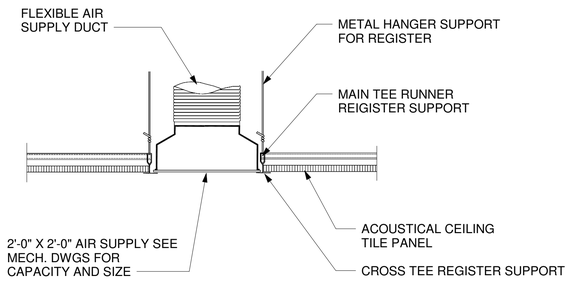
CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

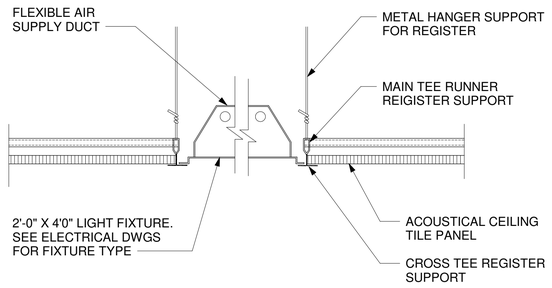
DATE:	04.22.2025
DRAWN BY:	B.J.S.
CHECKED BY:	J.P.W.
APPROVED BY:	J.P.W.
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	A5.0

WALL DETAILS

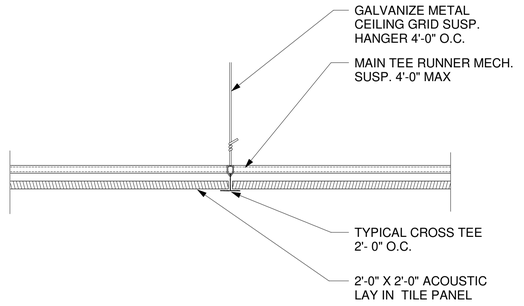
REGISTERED ARCHITECT U.S. VIRGIN ISLANDS



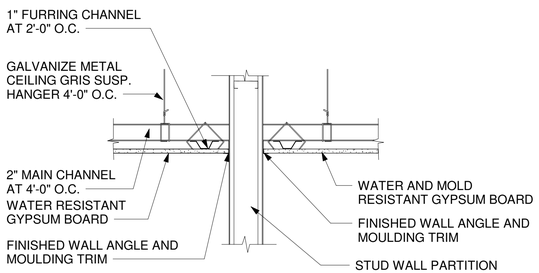
1 CEILING DETAIL AT REGISTER
3/4" = 1'-0"



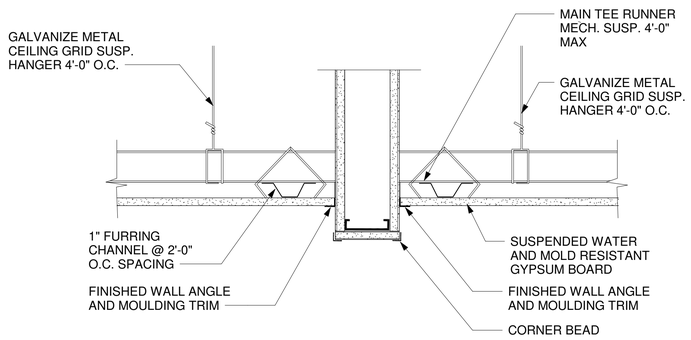
2 CEILING DETAIL AT LIGHT FIXTURE
3/4" = 1'-0"



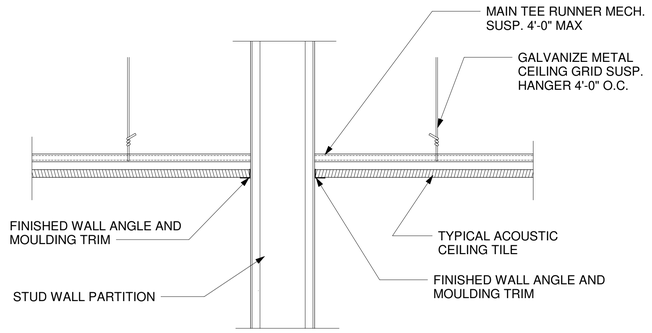
3 TYPICAL SUSPENDED CEILING DETAIL
3/4" = 1'-0"



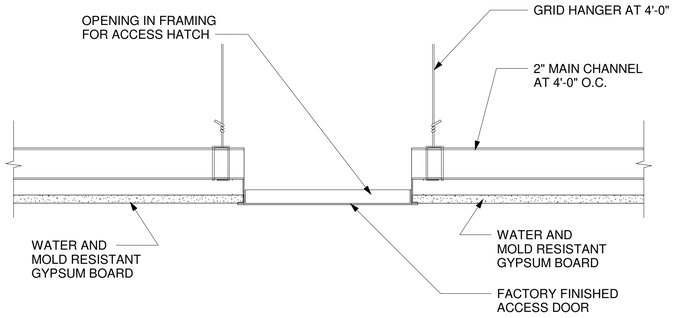
4 GYP. BOARD CEILING DETAIL
3/4" = 1'-0"



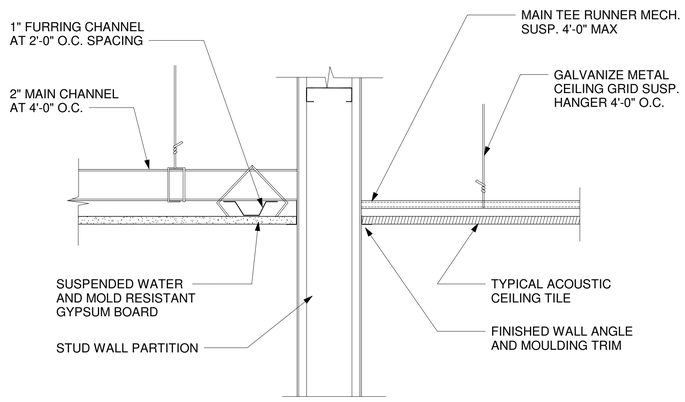
5 BULKHEAD DETAIL
3/4" = 1'-0"



6 ACT CEILING DETAIL
3/4" = 1'-0"



7 CEILING ACCESS HATCH DETAIL
3/4" = 1'-0"



8 CEILING DETAIL-GYP. BOARD & ACT CEILING
3/4" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

Jaredian Design Group
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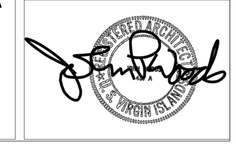
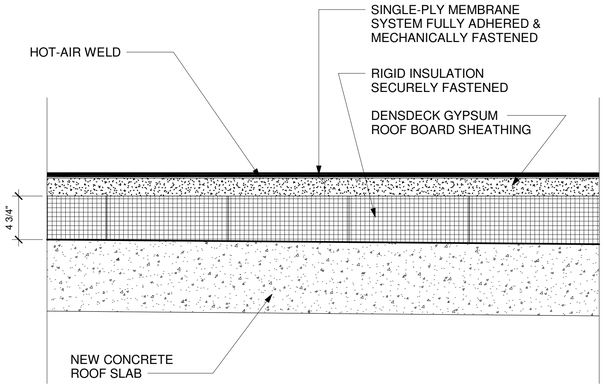
CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

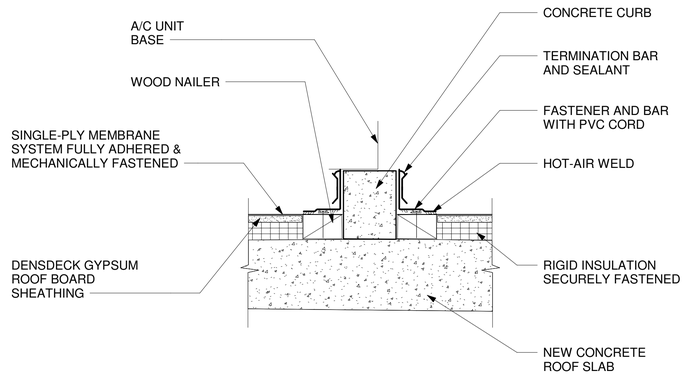
DATE:	04.22.2025
DRAWN BY:	B.J.S.
CHECKED BY:	J.P.W.
APPROVED BY:	J.P.W.
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	A5.1

CEILING DETAILS

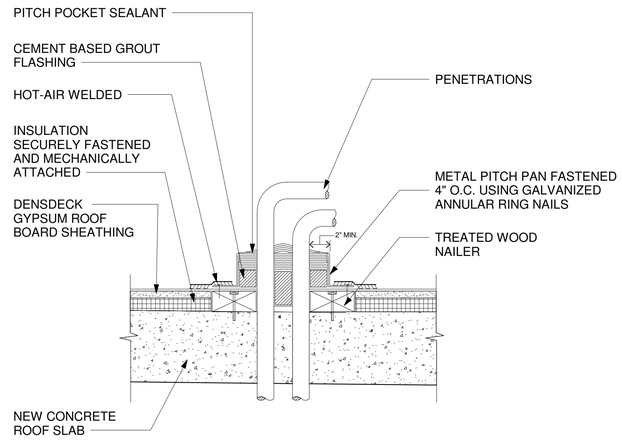




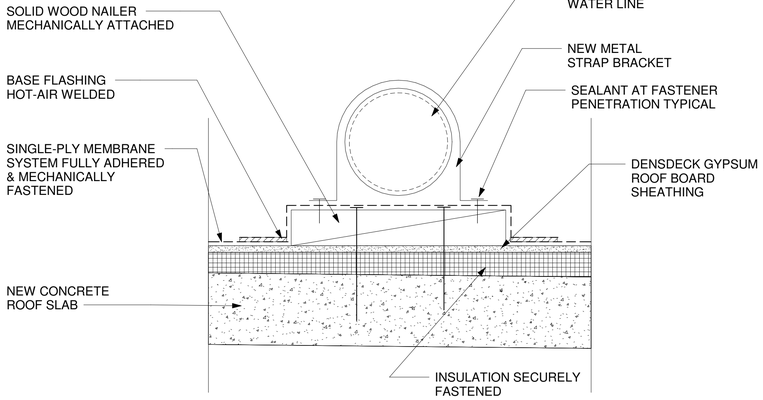
1 ROOF DRAIN DETAIL
1 1/2" = 1'-0"



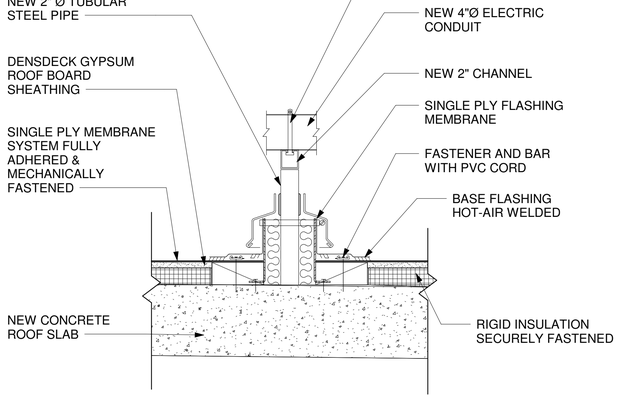
2 CURB DETAIL
1 1/2" = 1'-0"



3 PITCH POCKET DETAIL
1 1/2" = 1'-0"



4 CHILLED WATER SUPPLY LINE DETAIL
1 1/2" = 1'-0"



5 ELECTRICAL CONDUIT SUPPORT DETAIL
1 1/2" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
DRAWN BY:	B.J.S.
CHECKED BY:	J.P.W.
APPROVED BY:	J.P.W.

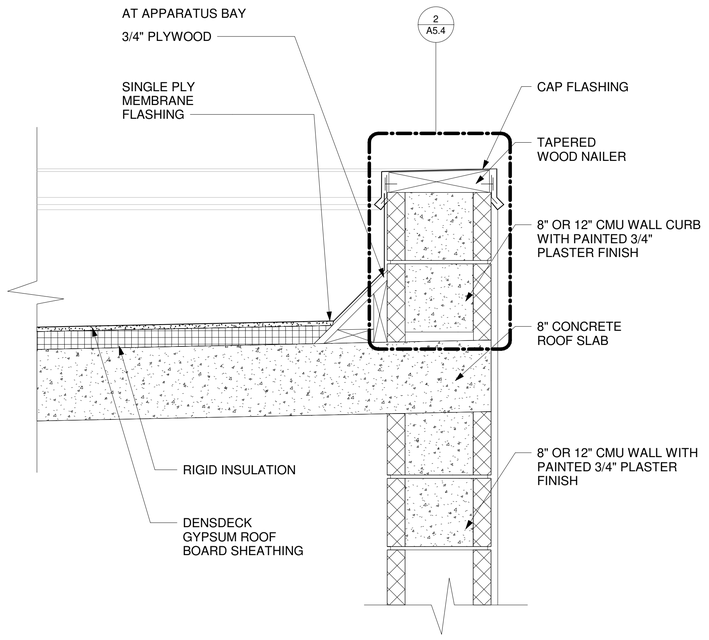
PROJECT NO.: 23-005.C

CONTRACT NO.: -

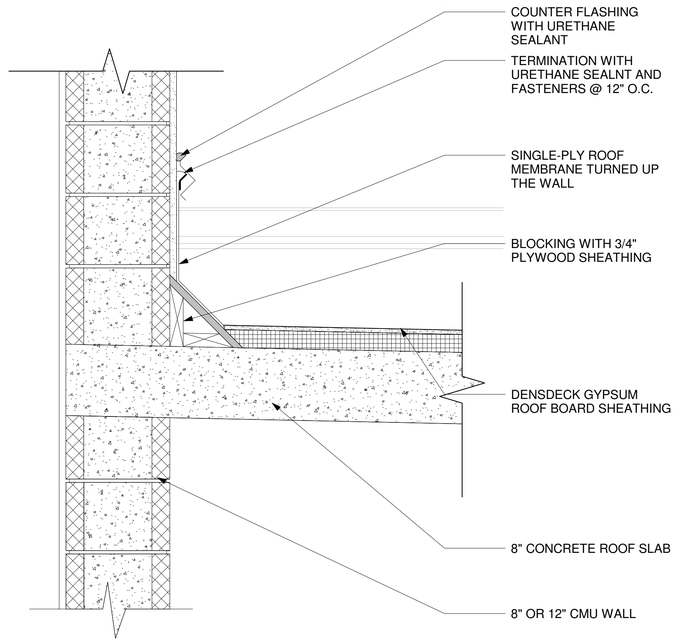
SHEET NO.: A5.2

ROOF DETAILS

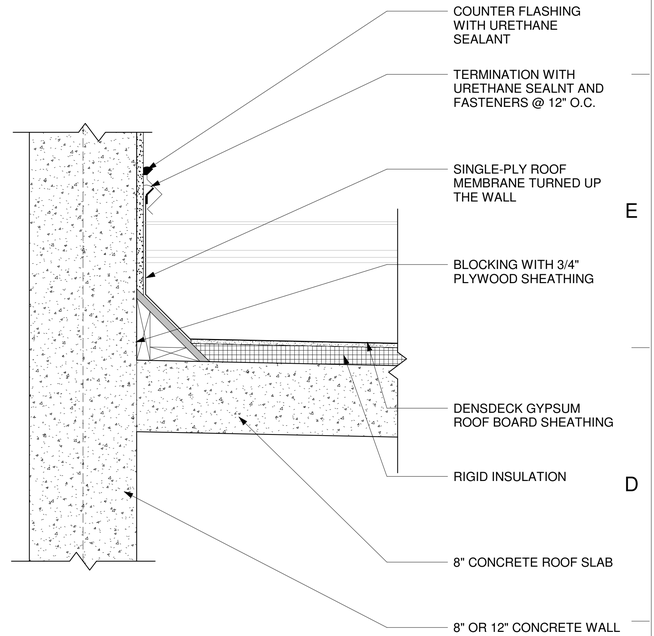
REGISTERED ARCHITECT U.S. VIRGIN ISLANDS



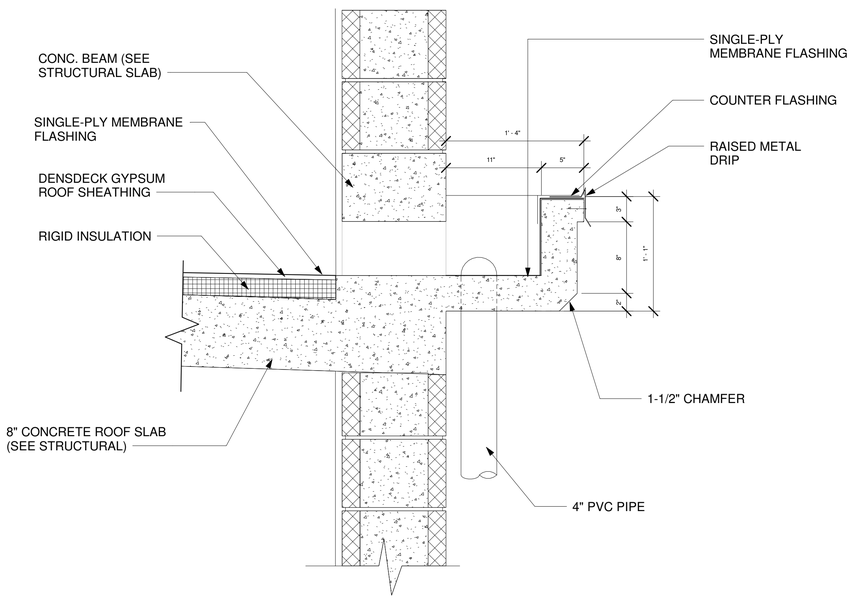
1 ROOF SECTION AT CMU CURB
1 1/2" = 1'-0"



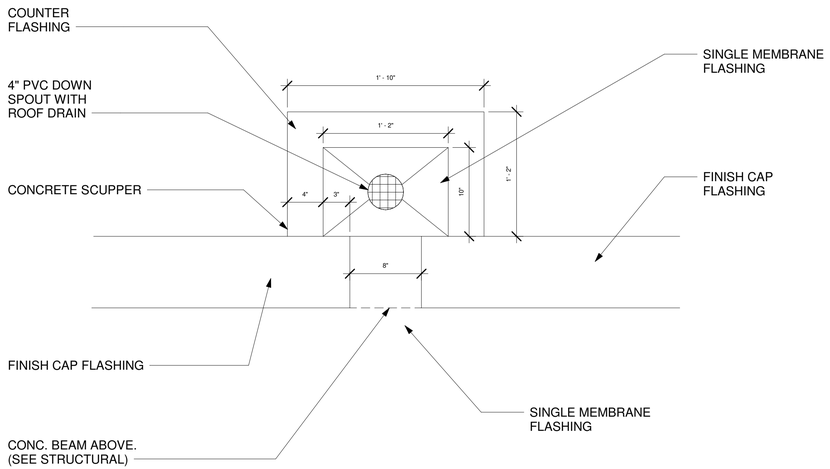
2 ROOF SECTION
1 1/2" = 1'-0"



3 ROOF SECTION AT CONCRETE WALL
1 1/2" = 1'-0"



4 ROOF SECTION AT SCUPPER DRAIN DETAIL
1 1/2" = 1'-0"



5 ROOF SECTION AT SCUPPER - PLAN VIEW
1 1/2" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

Jaredian Design Group
Architects, Engineers and Construction Managers
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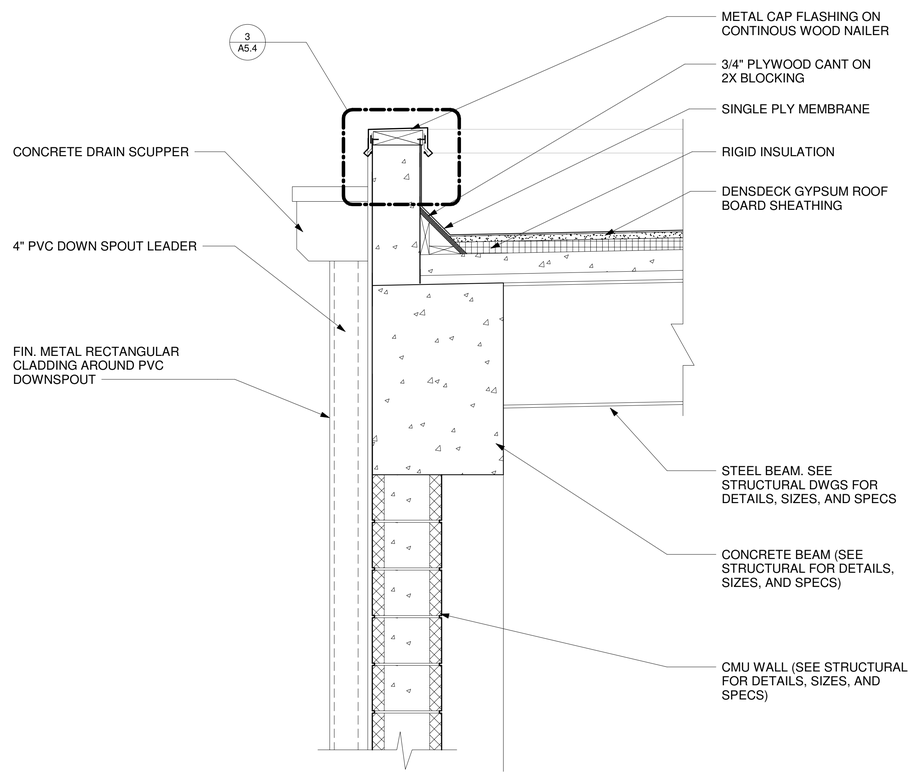
CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
DRAWN BY:	B.J.S.
CHECKED BY:	J.P.W.
APPROVED BY:	J.P.W.
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	A5.3

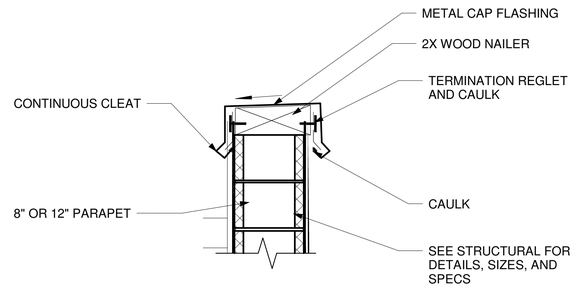
ROOF DETAILS

REGISTERED ARCHITECT U.S. VIRGIN ISLANDS



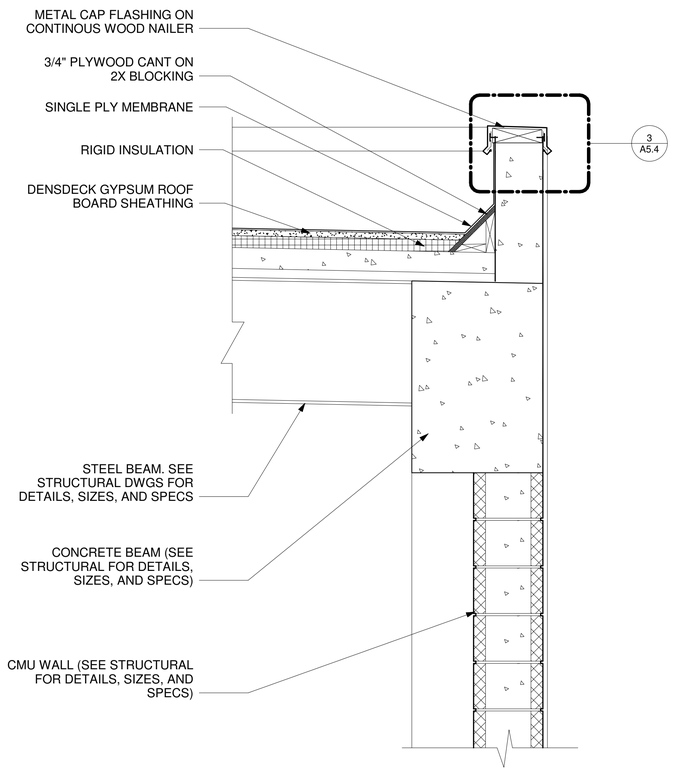
1 ROOF DETAIL WITH CONCRETE SCUPPER

1" = 1'-0"



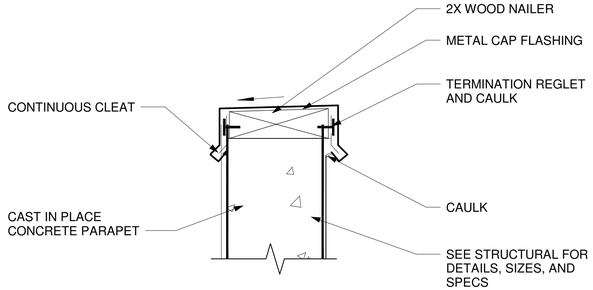
2 CMU PARAPET CAP FLASHING DETAIL

1" = 1'-0"



4 ROOF DETAIL WITH CONCRETE BEAM

1" = 1'-0"



3 CONCRETE PARAPET CAP FLASHING DETAIL

1" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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Architects, Engineers and Construction Managers
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CRUZ BAY-VIFEMS STATION

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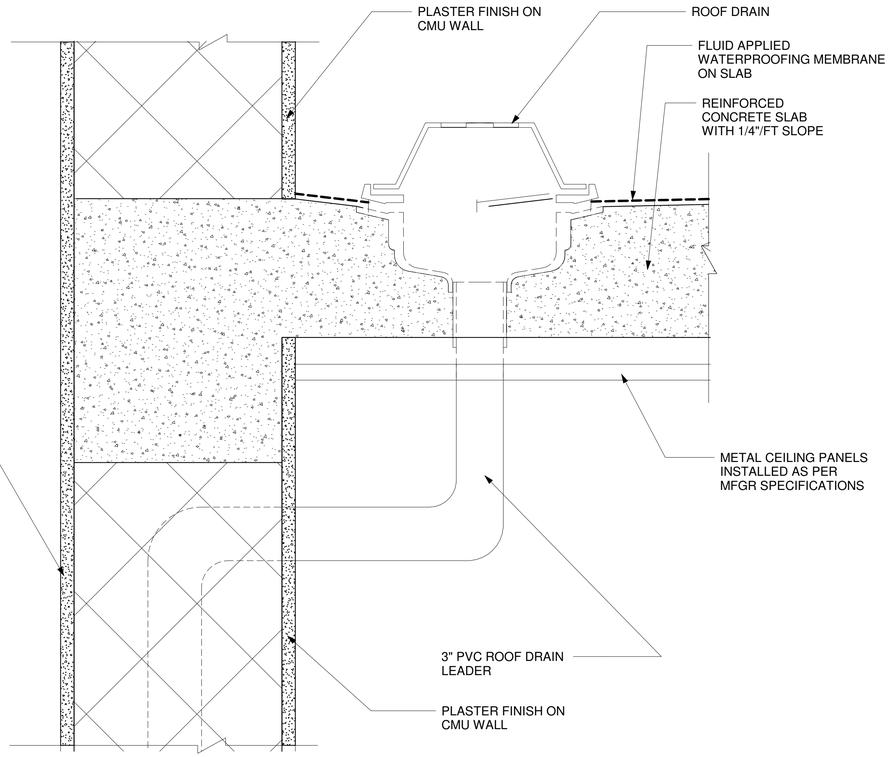
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

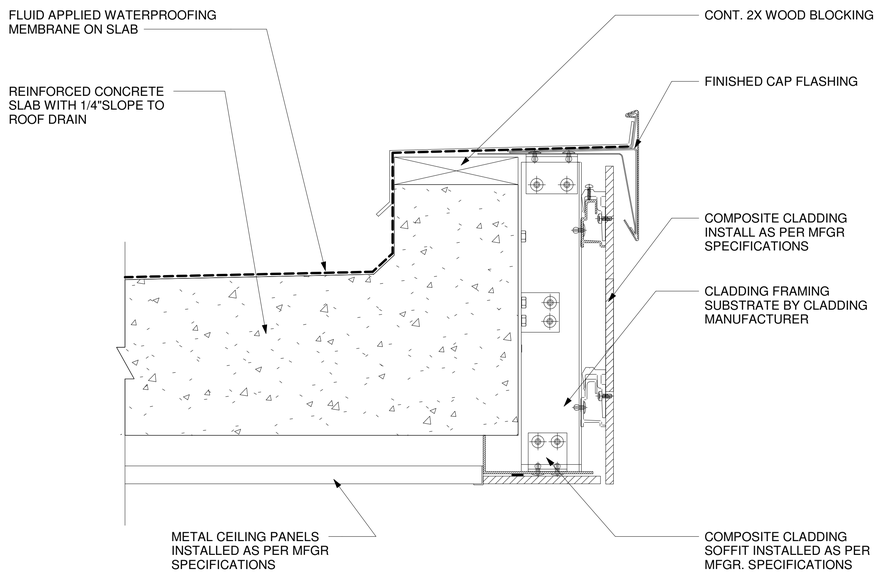
DATE:	04.22.2025
DRAWN BY:	B.J.S.
CHECKED BY:	J.P.W.
APPROVED BY:	J.P.W.
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	A5.4

ROOF DETAILS

REGISTERED ARCHITECT
U.S. VIRGIN ISLANDS



1 WALKWAY ROOF DRAIN DETAIL
3" = 1'-0"



2 WALKWAY ROOF SLAB DETAIL
3" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

JDG Jaredian Design Group
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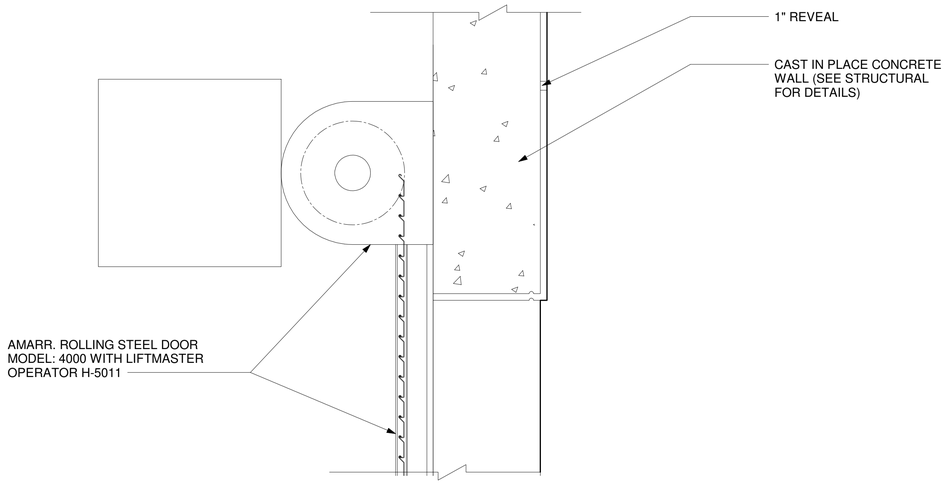
APPROVED BY: J.P.W.

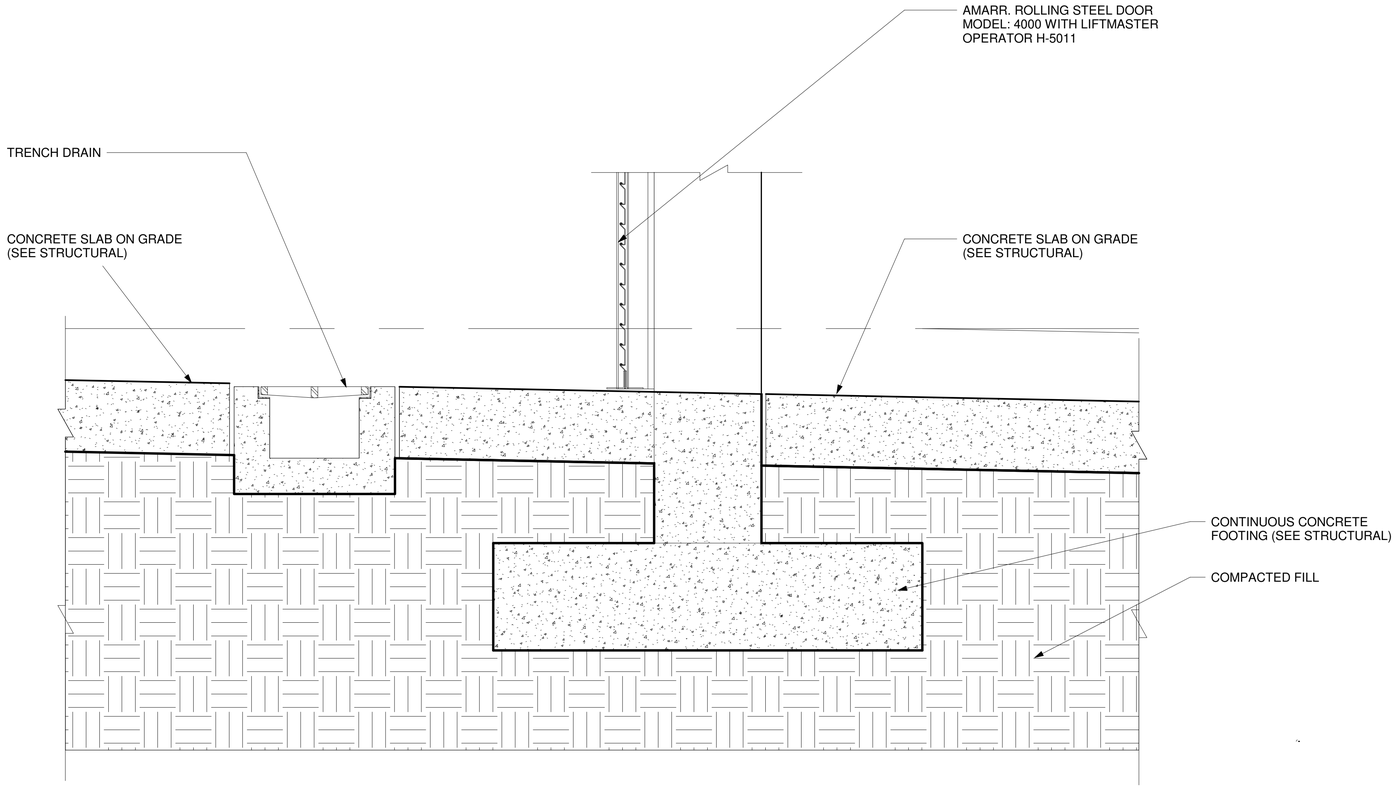
PROJECT NO.: 23-005.C
CONTRACT NO.: -

SHEET NO.: A5.5

ROOF DETAILS

LICENSED ARCHITECT U.S. VIRGIN ISLANDS





1 OVERHEAD COILING DOOR DETAIL

1" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

Jaredian Design Group
Architects, Engineers and Construction Managers
5143 Palm Passage,
Second Floor - Suites B24-25 St. Thomas,
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Post Office Box 6218
St. Thomas, U.S. Virgin Islands 00804-6218
telephone: 340.777.1600
e-mail: admin@jaredian.com
website: www.jaredian.com

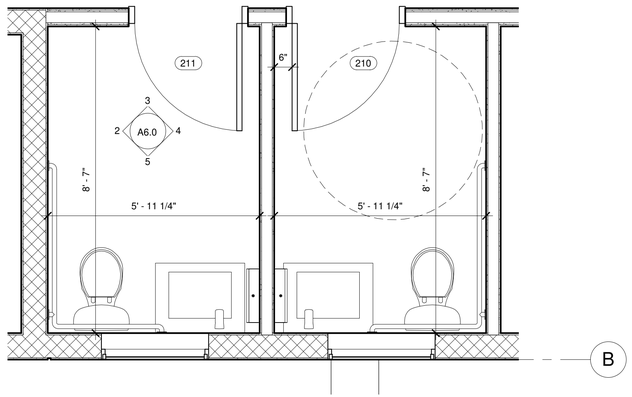
CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
DRAWN BY:	B.J.S.
CHECKED BY:	J.P.W.
APPROVED BY:	J.P.W.
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	A5.6

DOOR DETAILS

REGISTERED ARCHITECT U.S. VIRGIN ISLANDS



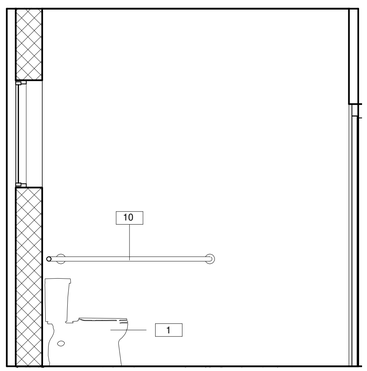
1 ENLARGED SECOND LEVEL RESTROOM PLAN

1/2" = 1'-0"

NEW BOBRICK B-2012 SOAP DISPENSER OR SIMILAR

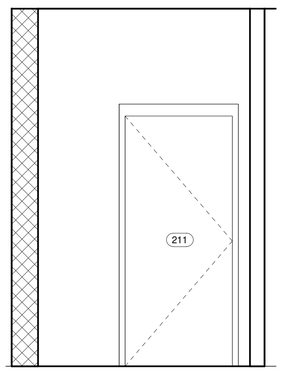
RESTROOM ACCESSORIES LEGEND

1	NEW KOHLER ULTRA K-25097 TOILET OR SIMILAR ADA COMPLIANT FLOOR MOUNTED TOILET
2	NEW BOBRICK B-293 TILTED MIRROR OR SIMILAR
3	NEW KOHLER GREENWICH K-12643 SINK OR SIMILAR ADA COMPLIANT WALL HUNG SINK
4	NEW SLOAN AD 83000 LAVATORY OR SIMILAR ADA COMPLIANT LAVATORY
5	NEW BOBRICK SHOWER SEAT OR SIMILAR
6	NEW KOHLER HANDHELD SHOWER OR SIMILAR
7	NEW KOHLER SHOWER BASE OR SIMILAR
8	NEW SLOAN WEUS 1002.1401 URINAL OR SIMILAR ADA COMPLIANT WALL HUNG URINAL
9	NEW SLOAN AD 82000 LAVATORY OR SIMILAR ADA COMPLIANT WALL HUNG SINGLE SINK
10	NEW BOBRICK B-68137 OR SIMILAR ADA COMPLIANT GRAB BAR
11	NEW SLOAN AD 81000 LAVATORY OR SIMILAR ADA COMPLIANT WALL HUNG SINGLE SINK
12	NEW SCRANTON MOUNTED PRIVACY SCREEN PILASTER OR SIMILAR



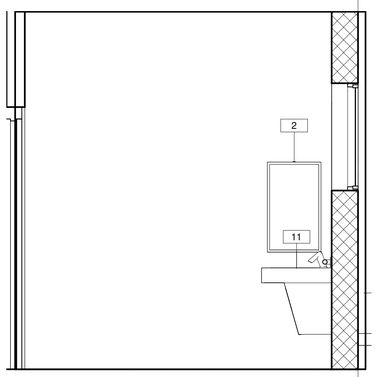
2 RESTROOM - ELEVATION 2

1/2" = 1'-0"



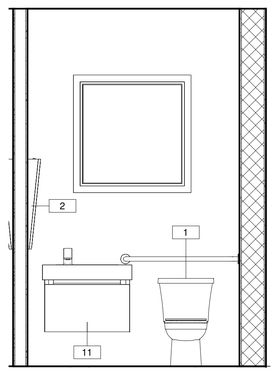
3 RESTROOM - ELEVATION 3

1/2" = 1'-0"



4 RESTROOM - ELEVATION 4

1/2" = 1'-0"



5 RESTROOM - ELEVATION 5

1/2" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

Jaredian Design Group
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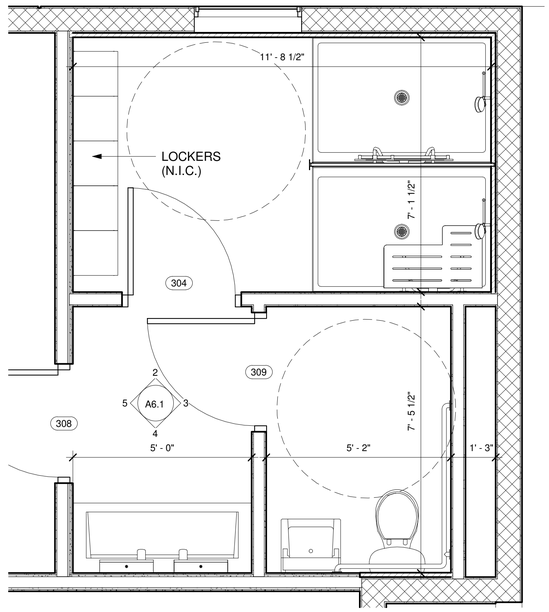
CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

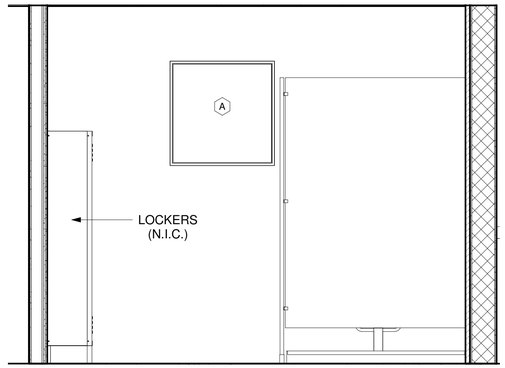
DATE:	04.22.2025
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	A6.0

ENLARGED RESTROOM PLAN & ELEVATIONS

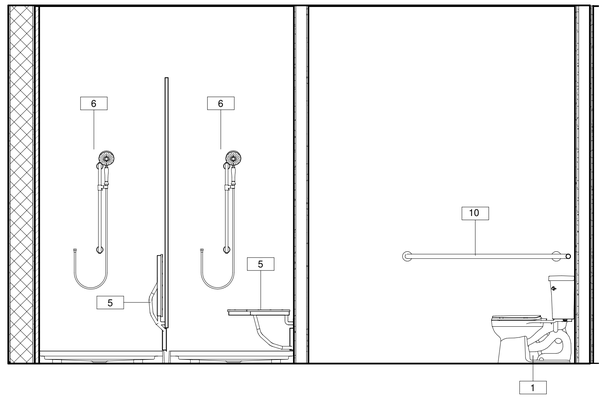
REGISTERED ARCHITECT
U.S. & VIRGIN ISLANDS



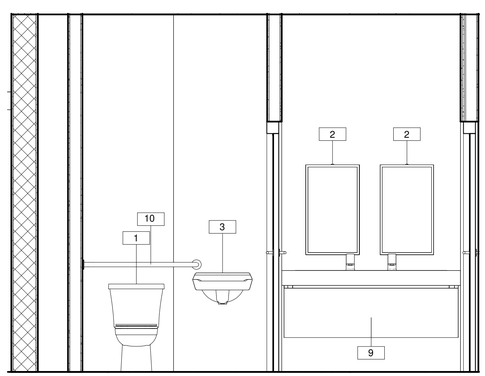
1 ENLARGED PLAN - FEMALE BATHROOM
1/2" = 1'-0"



2 FEMALE BATHROOM - ELEVATION 2
1/2" = 1'-0"



3 FEMALE BATHROOM - ELEVATION 3
1/2" = 1'-0"



4 FEMALE RESTROOM - ELEVATION 4
1/2" = 1'-0"

5 FEMALE BATHROOM - ELEVATION 5
1/2" = 1'-0"

NEW BOBRICK B-2012 SOAP DISPENSER OR SIMILAR

RESTROOM ACCESSORIES LEGEND

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12	NEW SCRANTON MOUNTED PRIVACY SCREEN PILASTER OR SIMILAR

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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e-mail: admin@jaredian.com
website: www.jaredian.com

CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

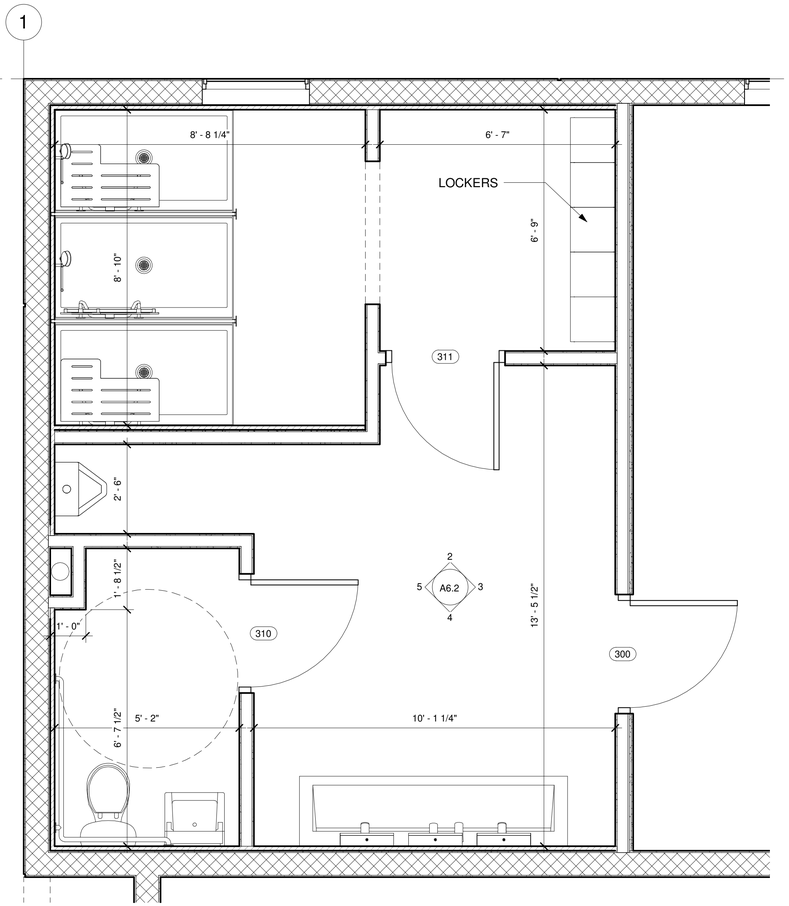
DATE: 04.22.2025
DRAWN BY: Author
CHECKED BY: Checker
APPROVED BY: Approver

PROJECT NO.: 23-005.C
CONTRACT NO.: -

SHEET NO.: A6.1

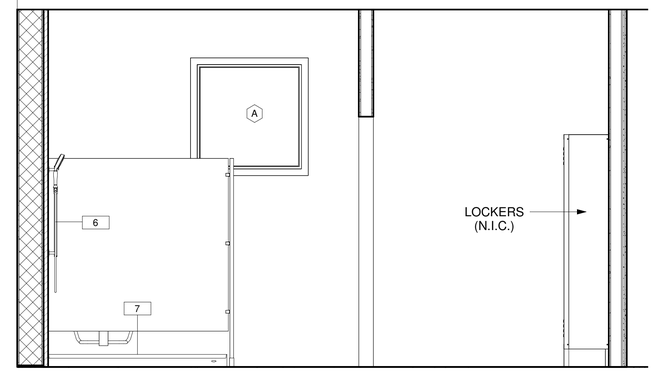
ENLARGED FEMALE PLAN AND ELEVATIONS

LICENSED ARCHITECT
U.S. VIRGIN ISLANDS
USA



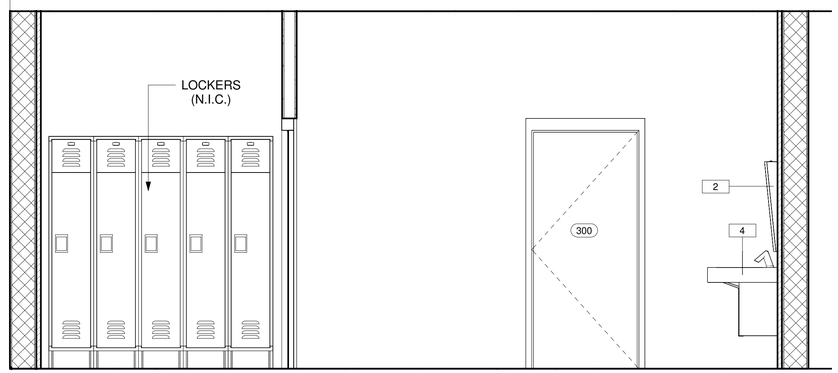
1 MALE RESTROOM PLAN AND ELEVATIONS

1/2" = 1'-0"



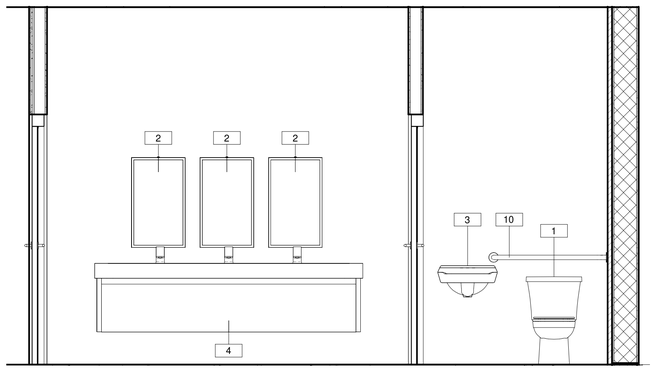
2 MALE RESTROOM - ELEVATION 2

1/2" = 1'-0"



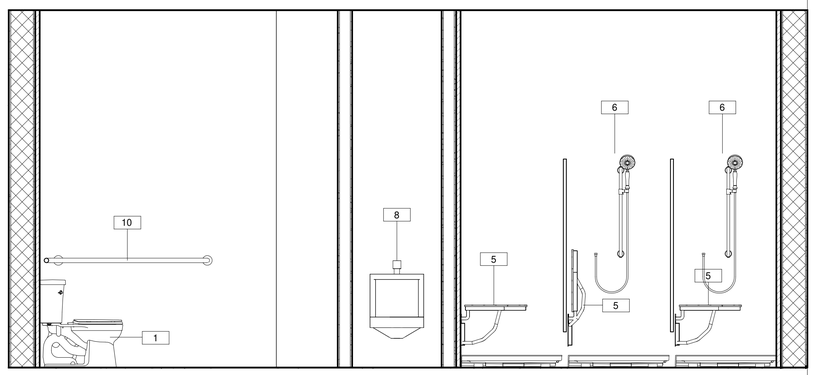
3 MALE RESTROOM - ELEVATION 3

1/2" = 1'-0"



4 MALE RESTROOM - ELEVATION 4

1/2" = 1'-0"



5 MALE RESTROOM ELEVATION 5

1/2" = 1'-0"

NEW BOBRICK B-2012 SOAP DISPENSER OR SIMILAR

RESTROOM ACCESSORIES LEGEND

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REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

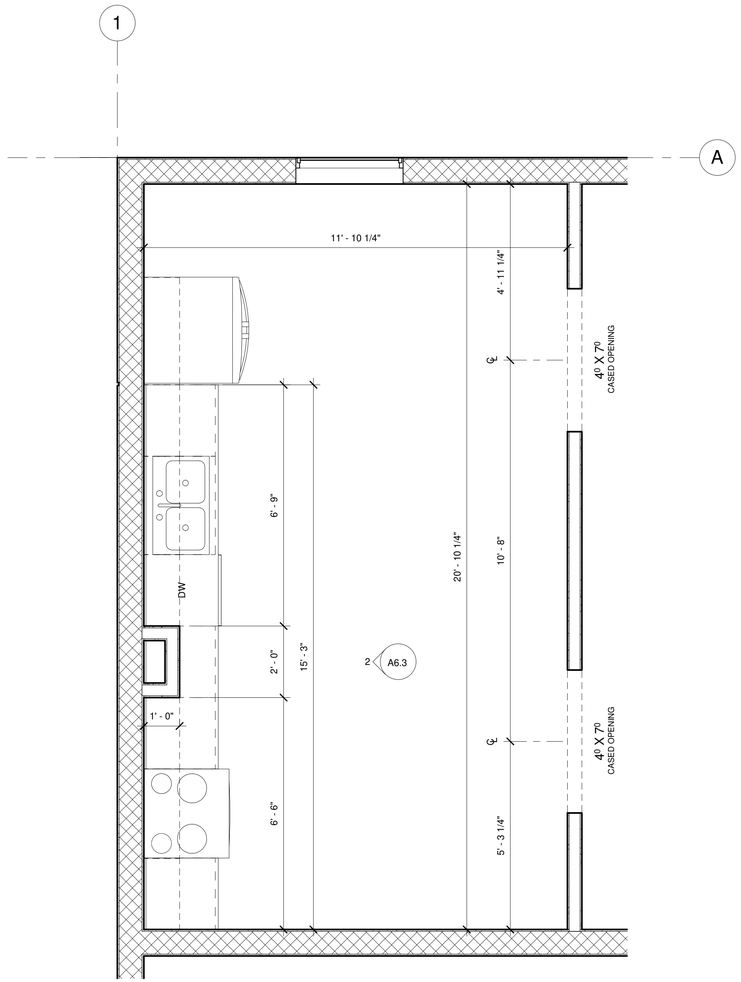
DATE: 04.22.2025
DRAWN BY: Author
CHECKED BY: Checker
APPROVED BY: Approver

PROJECT NO.: 23-005.C
CONTRACT NO.: -

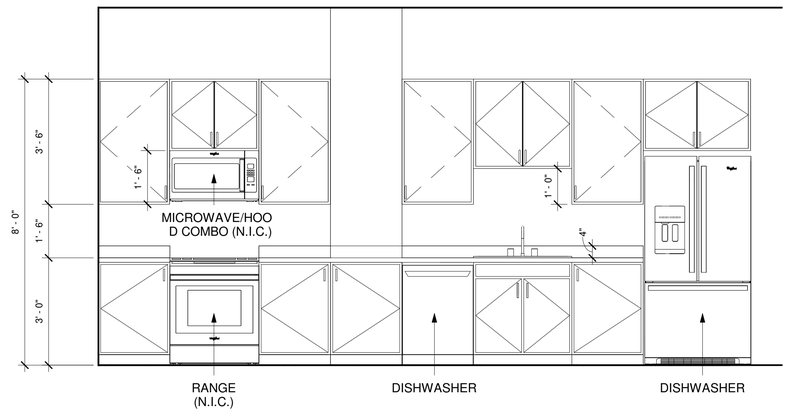
SHEET NO.: A6.2

ENLARGED MALE RESTROOM AND ELEVATIONS

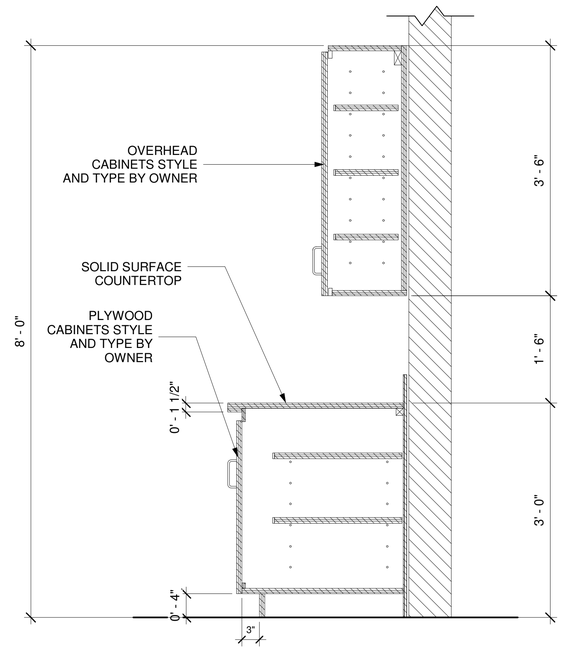
REGISTERED ARCHITECT
U.S. VIRGIN ISLANDS



1 ENLARGED KITCHEN PLAN
1/2" = 1'-0"



2 KITCHEN ELEVATION 2
1/2" = 1'-0"



3 CASEWORK SECTION
1" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

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Architects, Engineers and Construction Managers
No.33 Dronningens Gade - Queen's Quarter
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St. Thomas, U.S. Virgin Islands 00804
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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

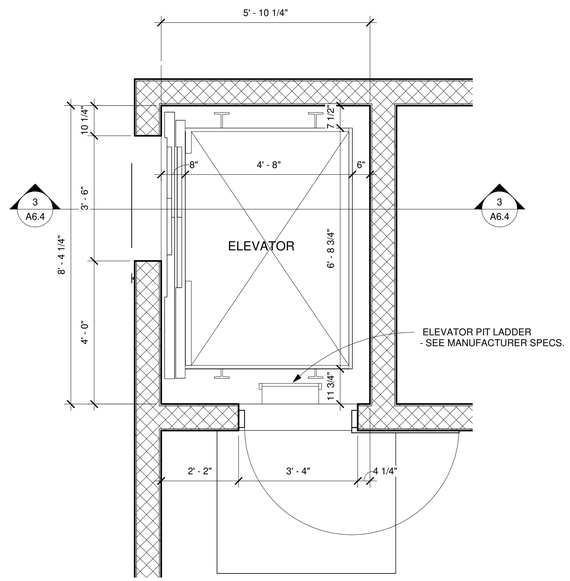
DATE: 04.22.2025
DRAWN BY: Author
CHECKED BY: Checker
APPROVED BY: Approver

PROJECT NO.: 23-005.C
CONTRACT NO.: -

SHEET NO.: A6.3

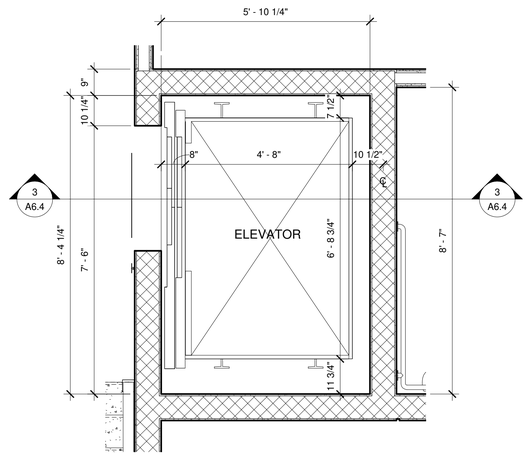
ENLARGED KITCHEN PLAN AND ELEVATIONS

REGISTERED ARCHITECT
U.S.A.
U.S. & VIRGIN ISLANDS



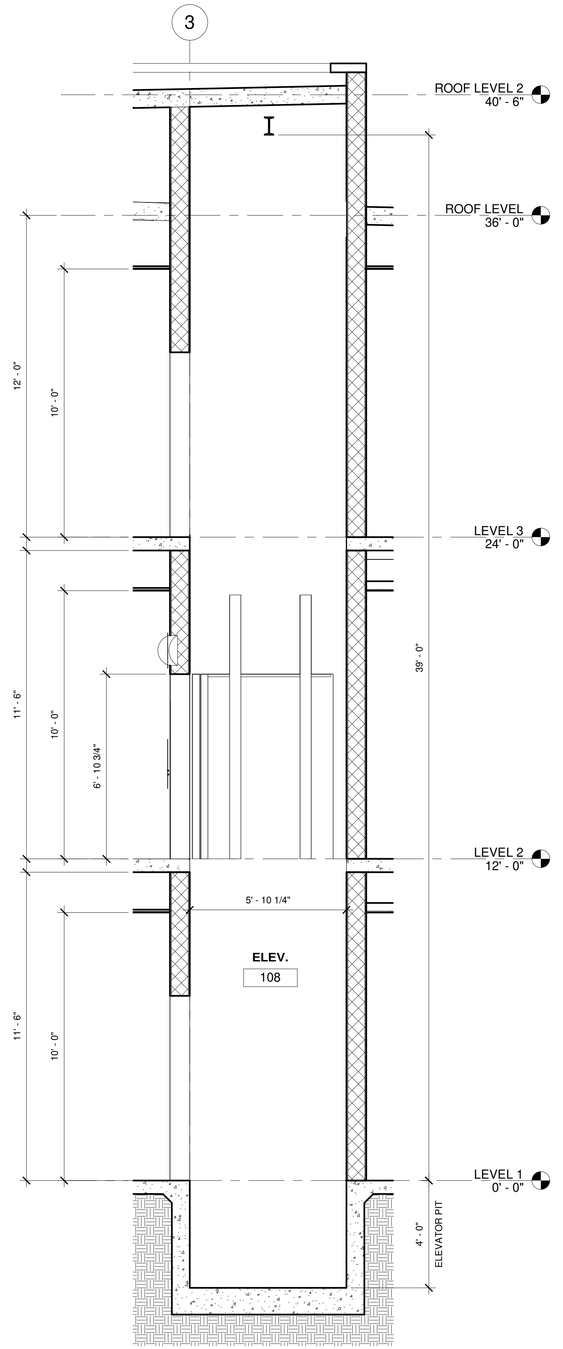
1 ENLARGED FIRST LEVEL ELEVATOR PLAN

1/2" = 1'-0"



2 ENLARGED SECOND LEVEL ELEVATOR PLAN

1/2" = 1'-0"



3 ELEVATOR SECTION

3/8" = 1'-0"

REVISIONS

NO.	DATE	REMARKS

CONSULTANTS

JDG Jaredian Design Group
Architects, Engineers and Construction Managers

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Second Floor - Suites B24-25 St. Thomas,
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website: www.jaredian.com

CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO. 303
CRUZ BAY QUARTER
ST. JOHN U.S.V.I

DATE:	04.22.2025
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver

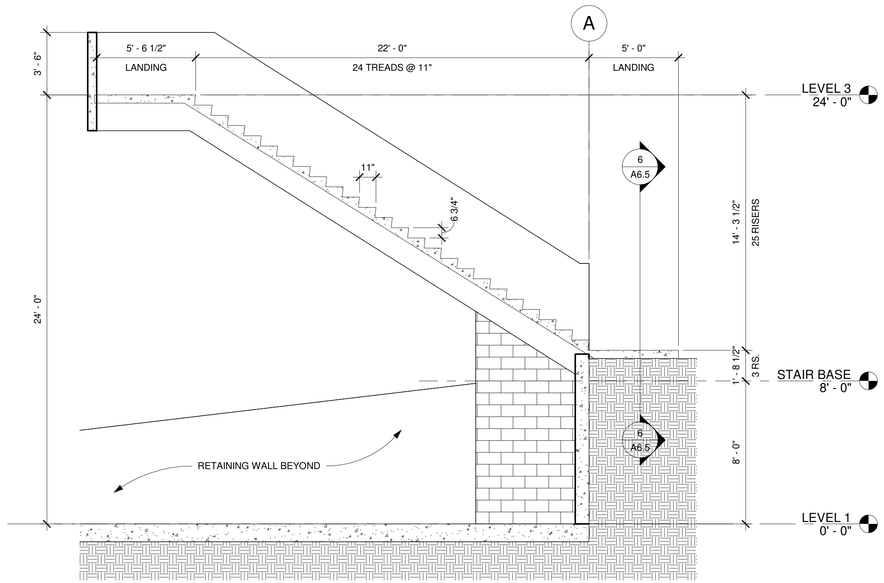
PROJECT NO.: 23-005.C

CONTRACT NO.: -

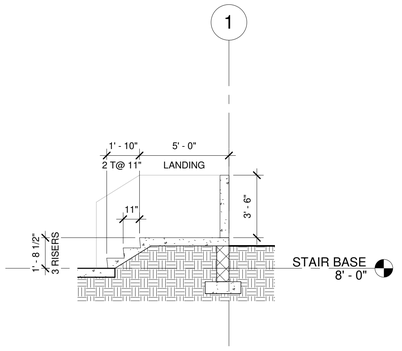
SHEET NO.: A6.4

ENLARGED ELEVATOR PLANS, SECTION AND DETAILS

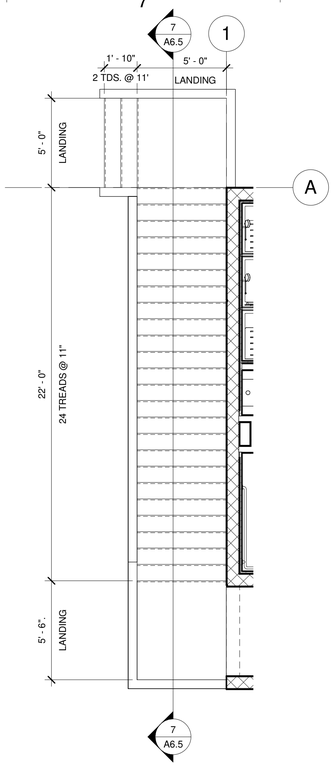
LICENSED ARCHITECT U.S. VIRGIN ISLANDS



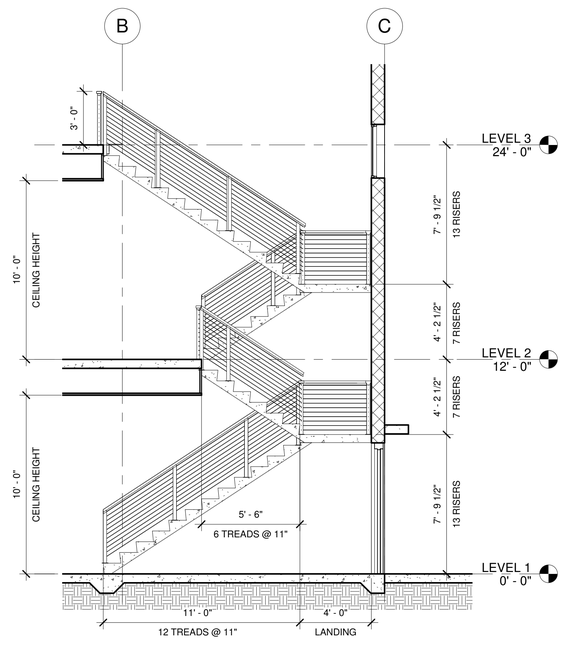
7 SECTION @ STAIR #2
1/4" = 1'-0"



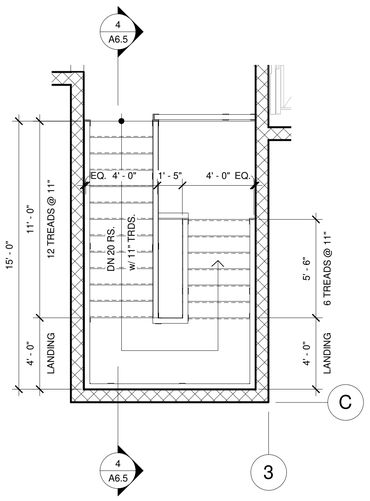
6 SECTION @ STAIR #2.
1/4" = 1'-0"



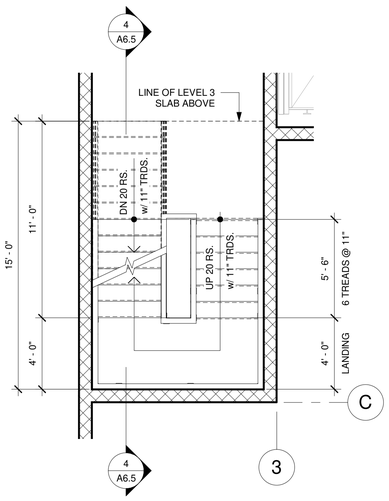
5 LEVEL 3 - STAIR #2 PLAN
1/4" = 1'-0"



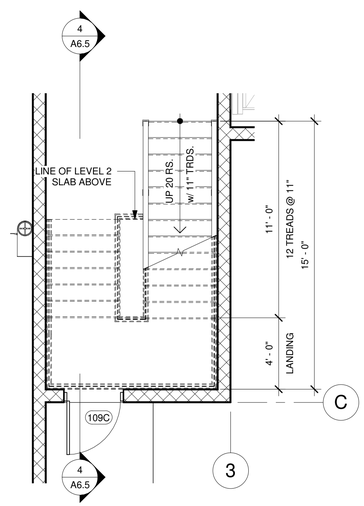
4 SECTION @ STAIR #1
1/4" = 1'-0"



3 LEVEL 3 - STAIR #1 PLAN
1/4" = 1'-0"



2 LEVEL 2 - STAIR #1 PLAN
1/4" = 1'-0"



1 LEVEL 1 - STAIR #1 PLAN
1/4" = 1'-0"

REVISIONS		
NO.	DATE	REMARKS

CONSULTANTS

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Architects, Engineers and Construction Managers
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CRUZ BAY-VIFEMS STATION

ESTATE ENGIHED PARCEL NO.
303
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ST. JOHN U.S.V.I

DATE:	04.22.2025
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APPROVED BY:	Approver
PROJECT NO.:	23-005.C
CONTRACT NO.:	-
SHEET NO.:	A6.5

ENLARGED STAIR PLANS & DETAILS