

Building: 13B Generator Building

Structural Assessment: Potentially

Repair or Rebuild

Primary Occupancy: Facility Maintenance

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	Slab contains in slab conduit, trenches, and equipment pads. Concrete slab has been heavily modified in the past.
Walls (Structural)	Steel	Two bay, steel framed structural building. Severe corrosion of structural members (noticeable section loss) and base plates, especially at building columns.
Roof	Steel Framed / Metal Roof	Main roof members appeared in acceptable condition. Secondary steel members showed signs of localized corrosion.

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Structural Assessment Report



Building: 13C Electrical Distribution

Structural Assessment: Potentially

Repair or Rebuild

Primary Occupancy: Facility Maintenance

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Concrete on 3 Sides / Steel Columns and Beams 1 Side	Base of steel columns corroded. Minor concrete cracking on rear wall.
Roof	Wood Framed / Metal Roof	End of one wood truss deteriorated.

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Structural Assessment Report



Building: 15 Uniform and Room Service

Structural Assessment: Structurally Sound

Primary Occupancy: Facility Maintenance

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Concrete	Minor concrete cracking above windows on north side.
Walls (Non-Structural)	Wood	
Roof	Wood framed / metal deck	
Stairs/Railings	N/A	
Sidewalk	Concrete	

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Building: 16 Housekeeping Building (Human Resources 2)

Structural Assessment: Structurally Sound

Primary Occupancy: Offices

Number of Stories: 2

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Concrete	Minor concrete cracking.
Walls (Non-Structural)	Concrete	Minor termite tubes observed.
Roof	Unknown w/ Metal Deck	Roof is sloped. Unable to verify construction. Vegetation on roof. Low concrete roof over exterior entrance has standing water.
Stairs/Railings	Concrete / Aluminum Rail	
Elevator		Elevator not inspected.

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Building: Housekeeping HR2 Pole Barn

Structural Assessment: Structurally Unsound

Primary Occupancy: Storage

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Dirt	
Framing	Wood	Wood framed pole barn. Bolted connections at top of 4 of the 6 posts failed. Top bolt split the post and bottom bolt split the rafter tail.
Roof	Wood Framed / Metal Roof	

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Building: 17E Central Storage

Structural Assessment: Structurally Sound

Primary Occupancy: Storage

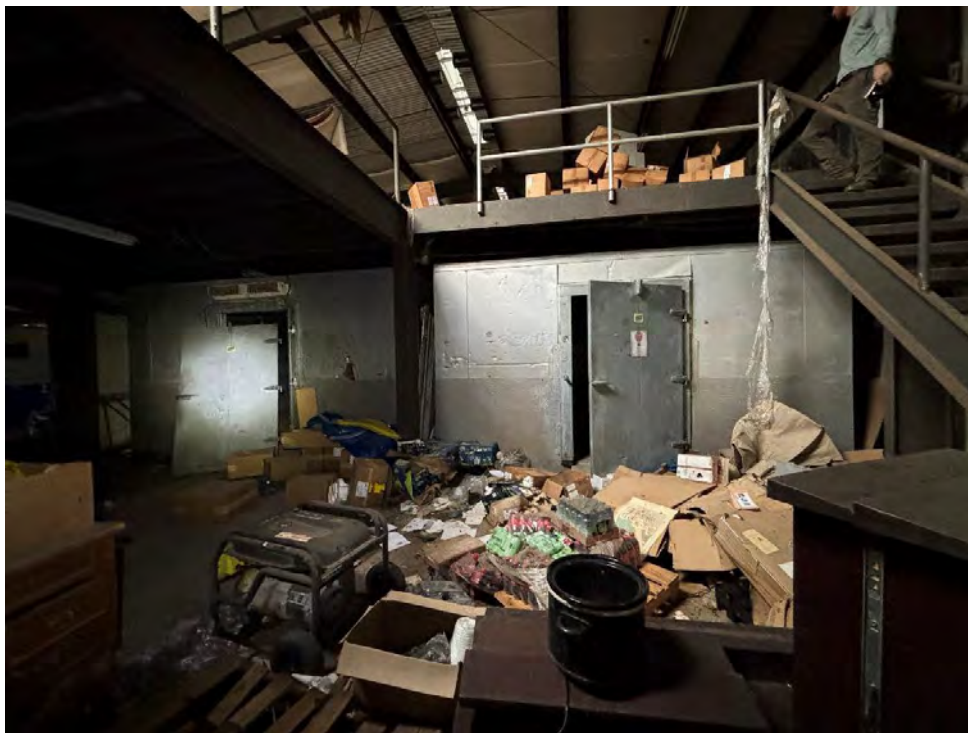
Number of Stories: 1 with Partial Mezzanine

Number of Residential Units: 0

Type: Semi-Attached to M17W

Component	Material	Notes
Floor	Concrete SOG / Steel Framed with Concrete Slab	
Structure	Steel Framed	Minor exterior cladding missing.
Roof	Steel Framed / Metal Deck	Minor roof deck missing exposing steel frame to elements. Exterior tie-rod at overhang damaged.
Stairs/Railings	Steel	

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Building: 17W Central Storage

Structural Assessment: Potentially

Repair or Rebuild

Primary Occupancy: Storage

Number of Stories: 1 and 2 story

Number of Residential Units: 0

Type: Semi-Attached to M17W

Component	Material	Notes
Floor	Concrete SOG / Wood Framed with Wood Deck	
Walls (Structural)	Stone / Interior Concrete Columns with Wood Posts	Impact damage to concrete column base with exposed, rusted rebar.
Walls (Non-Structural)	Wood / Masonry	
Roof	Wood / Metal Deck	Isolated wood beam and truss member failures. Significant termite activity. Some displaced cladding allowing moisture intrusion.
Stairs/Railings	Wood	Support posts appear to have shifted.

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Building: 97 Loading Dock

Structural Assessment: Structurally Sound

Primary Occupancy: Facility Maintenance/Storage

Number of Stories: 0

Number of Residential Units: 0

Type: N/A

Component	Material	Notes
Floor	Concrete	Concrete slab on grade at ramp and sidewalk around ramp.
Walls (Structural)	Concrete Retaining Walls	Concrete retaining walls around ramp are in relatively good condition with minor damage at top of wall curb. Retaining wall to sidewalk has vertical crack at curve.

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Building: 60 Employee Gym

Structural Assessment: Structurally Sound

Primary Occupancy: Staff

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Concrete	Minor, hairline cracks observed on two faces on exterior concrete walls. Termite tubes observed.
Walls (Non-Structural)	N/A	
Roof	Wood framed / metal deck	Crack in interior ceiling plaster.
Stairs/Railings	Concrete / Wood	Right railing on stairs missing.
Sidewalk	Concrete	

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Building: 77 Gift Shop Warehouse

Structural Assessment: Structurally Unsound

Primary Occupancy: Storage

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Wood Framed	Building collapsed, walls not standing.
Walls (Non-Structural)	N/A	
Roof	Unknown	Roof collapsed.
Stairs/Railings	Concrete	
Sidewalk	Concrete	

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Structural Assessment Report



Building: 78 Facilities Office

Structural Assessment: Structurally Sound

Primary Occupancy: Offices / Facility Maintenance

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Wood	Rotted sill plate noted in select locations.
Walls (Non-Structural)	Wood	
Roof	Wood Framed / Metal Deck	
Stairs/Railings	Concrete	
Sidewalk	Concrete	

Additional observations:

- Potential mold in building.

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Building: 79 Engineering Warehouse

Structural Assessment: Structurally Sound

Primary Occupancy: Storage / Facility Maintenance

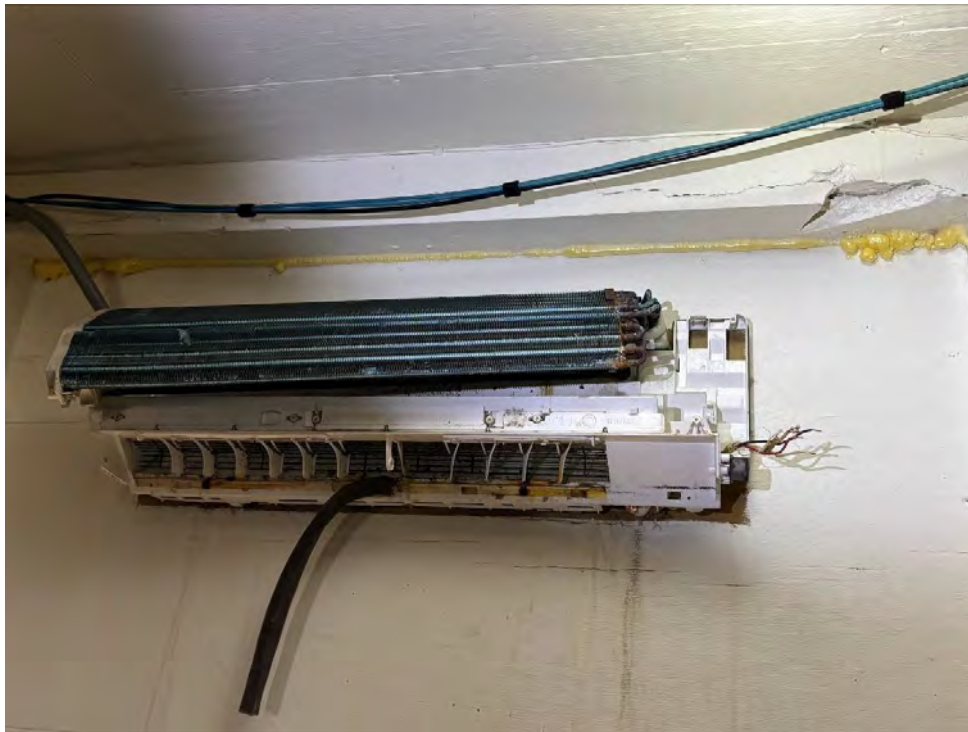
Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Concrete	Horizontal crack in lintel. Cracks at joint between dive storage addition and main building. Failed walls at small shed addition to west of dive storage room.
Walls (Non-Structural)	Wood	
Roof	Wood Framed / Metal Deck	Roof collapsed at small shed addition to west of dive storage room.
Stairs/Railings	N/A	
Sidewalk	Concrete	

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Building: 80 Carpenter Shop

Structural Assessment: Structurally Sound

Primary Occupancy: Facility Maintenance

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	Minor cracking.
Walls (Structural)	Steel	Rusted base plates, rust jacking between steel framing members.
Walls (Non-Structural)	Metal Cladding	Missing non-structural cladding. Section loss from rust in some horizontal bracing elements.
Roof	Metal Framed/ Metal Roof	Missing metal roof cladding.

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Building: 81 Staff Dining Facility

Structural Assessment: Potentially

Repair or Rebuild

Primary Occupancy: Staff

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Masonry (CMU) on south, steel columns on north	Steel columns severely corroded and failed.
Walls (Non-Structural)	Masonry (CMU) infill in vicinity steel columns	
Roof	Metal Framed/ Metal Roof	

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Building: 82 Security Office

Structural Assessment: Structurally Unsound

Primary Occupancy: Offices

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Steel	Major section loss in structural steel.
Walls (Non-Structural)	Wood	
Roof	Metal Framed/ Metal Roof	Failed/collapsed.

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Building: 83 Staff Locker Rooms

Structural Assessment: Potentially

Repair or Rebuild

Primary Occupancy: Staff

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Masonry (CMU)	CMU cracking due to potential differential settlement.
Walls (Non-Structural)	Masonry (CMU)	
Roof	Metal Framed/ Metal Roof	

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Building: 84 Motor Pool

Structural Assessment: Potentially Repair or Rebuild

Primary Occupancy: Facility Maintenance

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Wood	Deteriorated rafter tails, deteriorated sill plates, trusses cut in south wing, truss end bearing deteriorated in 2 locations, portion of east wall inadequately framed.
Walls (Non-Structural)	Wood Framed/ Metal Cladding	
Roof	Metal Framed/ Metal Roof	

Additional Observations:

- Note the east wall between the north and south wings of the building where the wall framing was previously removed was reframed improperly. Current framing does not provide adequate support for the rafters.

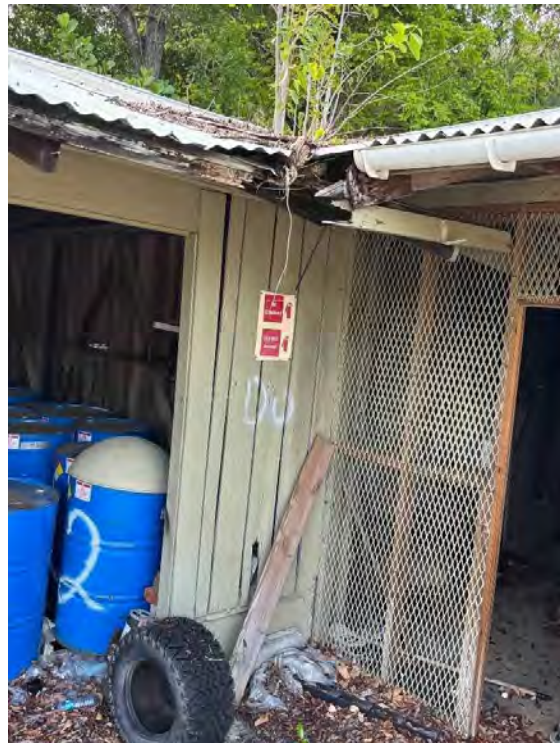
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Building: 85 Engineering Storage

Structural Assessment: Structurally Sound

Primary Occupancy: Facility Maintenance/Storage

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Steel	Appears to have rust on structural elements, unable to fully verify due to vegetation and material preventing access.
Walls (Non-Structural)	Metal Cladding	Missing non-structural cladding. Section loss from rust in some horizontal bracing elements.
Roof	Metal Framed/ Metal Roof	Roof finishes severely damaged/missing. Building is exposed to elements due to failed roof. This may lead to increased deterioration of steel.

Notes:

- Unable to access interior due to excessive growth and stored materials.
- Appears to be similar condition to Building 80 Carpenter Shop.

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Building: 86 Employee Lounge

Structural Assessment: Structurally Sound

Primary Occupancy: Staff

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Concrete / wood framed addition	Small horizontal crack between windows on north and east wall.
Roof	Wood framed / metal deck	Adjacent Quonset hut wall fell on addition roof.
Stairs/Railings	Concrete w/ aluminum rail	

Notes:

- Unable to access the rear shed addition to evaluate for roof damage. Further investigation required to determine condition of the roof.

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Building: 90 Carpenter Shop 2

Structural Assessment: Structurally Unsound

Primary Occupancy: Facility Maintenance

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Steel	SW corner of building failed. Steel columns corroded and have significant section loss. Some columns have completely rusted at base plate.
Roof	Steel Framed / Metal Deck	Failed/collapsed.

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Building: 91 Human Resources

Structural Assessment: Structurally Sound

Primary Occupancy: Offices

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Concrete	Signs of termites observed.
Walls (Non-Structural)	Concrete	
Roof	Wood framed / metal deck	

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Building: Maintenance Area Guard Shack

Structural Assessment: Structurally Sound

Primary Occupancy: Security

Number of Stories: 1

Number of Residential Units: 0

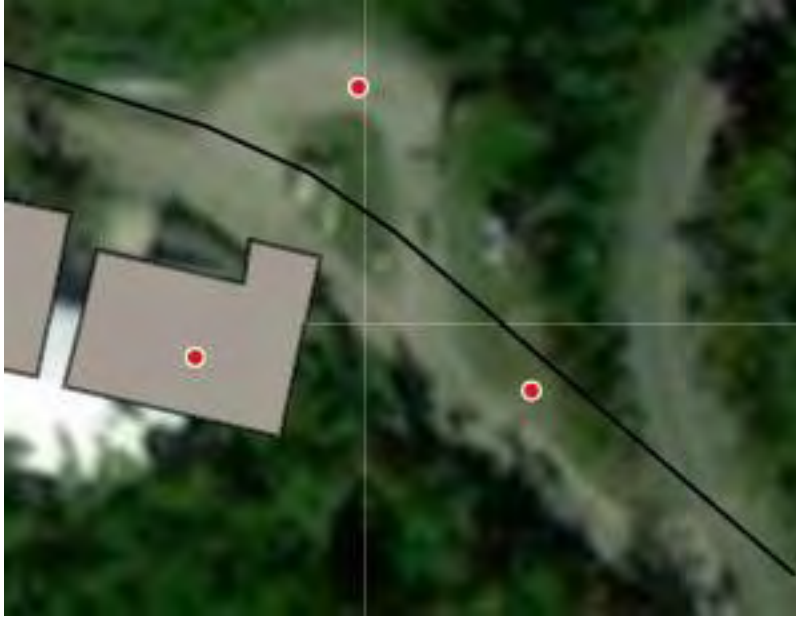
Type: N/A

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Wood	Potential termite damage.
Walls (Non-Structural)	Wood	Potential termite damage.
Roof	Wood Framed/ Wood Shingles	Potential termite damage.

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REVERSE OSMOSIS SYSTEM



Building: R.O. Plant

Structural Assessment: Potentially Repair or Rebuild

Primary Occupancy: Water Treatment

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	Concrete slab with concrete pads for equipment.
Office Walls (Structural)	CMU	
Office Roof	Wood Framed / Wood	
Plant Walls (Structural)	Concrete Knee Walls / Steel Columns Encased in Concrete	Concrete walls on north side are cracked, spalled and have severely rusted rebar. Concrete around steel columns has spalled. CMU wall on south side is acting as a retaining wall and has horizontal cracks along the length of the wall.
Roof	Steel / Metal Roof	Roof has severely corroded in one location and rusted completely through. Bottom flange of "Z" purlins have various degrees of corrosion on the bottom flange throughout the structure.
West Roof	Wood Framed / Metal Roof	Wood structure attached to the west side of the RO plant appears to be in good condition.

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Building: R.O. Storage Shed

Structural Assessment: Structurally Sound

Primary Occupancy: Water Treatment

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Steel	Corrosion visible on steel framing.
Walls (Non-Structural)	Wood / Metal Cladding	
Roof	Metal framed / Metal roof	

Notes:

- Constructed approximately 2014.

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Building: R.O. Filling Station

Structural Assessment: Potentially

Repair or Rebuild

Primary Occupancy: Water Treatment

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	Roadway cracked and deteriorated from truck traffic.
Walls (Structural)	Masonry (CMU)	No leaning or displacement observed but retaining wall cracked.
Walls (Non-Structural)	Scale structure wood framed	
Roof	Wood framed / Wood shingles	

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Building: R.O. Guard Shack

Structural Assessment: Structurally Sound

Primary Occupancy: Security

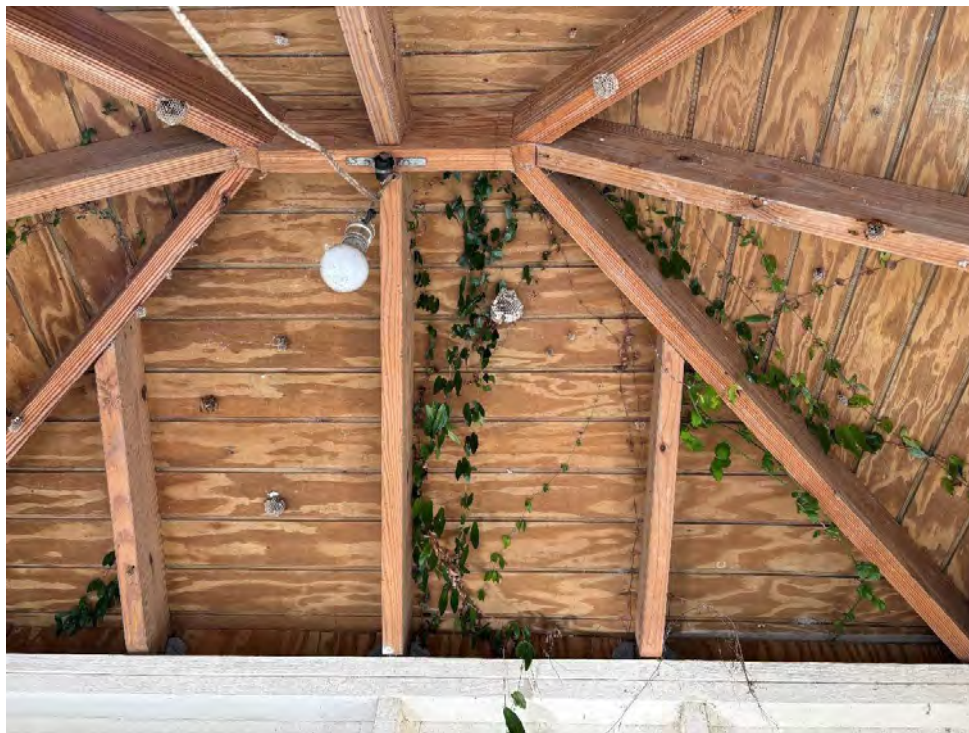
Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	
Walls (Structural)	Wood	Minor rot at base of exterior sheathing.
Walls (Non-Structural)	N/A	
Roof	Wood framed/ Wood shingles	Vegetation growing on roof.

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Building: R.O. Pump House by Honeymoon Beach

Structural Assessment: Potentially Repair or Rebuild

Primary Occupancy: Water Treatment

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	Concrete maintenance pads for equipment currently in use.
Walls (Structural)	Stone / CMU / Wood	The structure consists of a CMU wall parallel to the road and 3 stone walls. The wall extend up partial height and have a wood framed shed structure for the top half. Wood posts partially supported on unstable rocks / wood scraps. Beas have insufficient bracing and are leaning/rotating. Wood posts are leaning. CMU at wall has a crack either side.
Roof		Wood beams framed into posts are unstable.

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Building: 75 Concrete Water Storage

Structural Assessment: Potentially

Repair or Rebuild

Primary Occupancy: Water Treatment

Number of Stories: 1

Number of Residential Units: 0

Type: Stand Alone

Component	Material	Notes
Floor	Concrete	Not accessed.
Walls (Structural)	Concrete	Pooled and flowing water observed at north side of tank.
Roof	Concrete / Wood Framed Shed Roof	Concrete frame over tank has vegetation growing at joints.
Stairs/Railings	Concrete	No railings on stairs.
Shed	Wood Framed	

Additional Observations:

- Storage tank should be evaluated for potential leak on north side.
 - RO System operator reported that the tank previously leaked about 1/10 foot per day in prior years and currently leaks approximately 2/10 foot per day.