

## **4339-DR-PR PROJECT 107355 -MAIN FACILITIES SCOPE OF WORK**

The Disaster #4339DR, which occurred between 9/17/2017 and 11/15/2017, caused:

The Subrecipient has stated that hurricane winds and wind driven rain damaged roofing systems, air conditioners, exhausts, building exterior, painted surfaces, lights, windows, canopy, railings, fences, drainage system, and parking lot. The damaged elements caused water intrusion which created extensive damage to the ceiling, walls, painted surfaces, windows, electrical, HVAC, and floors. A site visit was conducted, and disaster related damages were agreed upon by FEMA, the Recipient and the Subrecipient.

UCC's Main Building (2-story plus basement) constructed in 1988 using a steel-reinforced, poured concrete foundation; poured concrete shear walls; painted concrete, CMU, and drywall; VCT flooring tiles, linoleum, and ceramic tiled floor coverings; fixed and venting exterior windows; metal exterior entry doors; and wooden interior doors. The Main Building roofing system consists of two sections. The Main section (original, northern area) was constructed using a steel bar-joist roof framing system and metal roof decking; and BUR. The southern area was constructed using a bar-joist roof framing system and metal roof decking; white, polyethylene, thermoplastic, elastomeric roof covering.

UCC's Main Building Annex was constructed using a steel-reinforced, poured-concrete mat foundation; steel-reinforced, poured-concrete; pre-engineered, galvanized steel Quonset hut structure; steel-framed, interior partition walls; carpeted flooring on 2nd floor; and VCT flooring on 1st floor; exterior entrance doors; wooden interior doors; and aluminium, Jalousie venting windows.

The Site (Campus Grounds) includes signage, fencing, drainage, and asphalt parking.

These facilities have been reviewed and determined eligible Per PAPPG v3.1 2018 Table 1. PNP Eligible Critical Services as a support facility that is essential to the operation of PNP critical services (Education). Facilities that provide direct support to a PNP critical service are eligible PNP critical service facilities.

### **Building Data /Main Building**

1. Building Footprint – 28,780 SF
2. Perimeter – 1,008 LF
3. Number of Stories – 2
4. First Floor – 28,780 SF
5. First Floor – 28,780 SF
5. Total Area – 57,560 SF
6. Floor to Floor Height –12 FT
7. Total Building Height – 26 FT

**Main Building Annex**

1. Building Footprint – 1,800 SF
2. Perimeter – 180 LF
3. Number of Stories – 2
4. First Floor – 1,800 SF
5. First Floor – 1,800 SF
5. Total Area – 3,600 SF
6. Floor to Floor Height – 10 FT
7. Total Building Height – 24 FT

**Damage #305240-Main Building**

The Subrecipient has stated that hurricane winds damaged building exterior, roofing systems, and windows. The damaged elements caused water intrusion which created extensive damage to the ceiling, lighting, walls, and floors. A site visit was conducted, and disaster related damages were agreed upon by FEMA, the Recipient and the Subrecipient.

**Building Data**

1. Building Footprint – 27,498 SF
2. Perimeter – 897 LF
3. Number of Stories – 2
4. Second Floor – 27,498 SF
5. First Floor – 27,498 SF
6. Basement – 17,351 SF
7. Total Area – 72,347 SF
8. Floor to Floor Height – 14 FT
9. Total Building Height – 28 FT

- o **General Facility Information:**

- **Facility Type:** Building
- **Building Type:** College
- **Facility:** UCC Main Building & Addition
- **Facility Description:** UCC's Main Building (2-story plus basement) and Addition (2-story) were constructed using a steel-reinforced, poured concrete foundation; poured concrete shear walls; painted concrete, CMU, and drywall wall interior surfaces; epoxy-coated concrete, VCT flooring tiles, seamed commercial linoleum, and ceramic tiled floor coverings; paint drywall and suspended acoustical ceiling tile and grid systems for finished ceilings; commercial aluminium fixed and venting exterior windows; hollow-core metal or aluminium storefront exterior entry doors; and wooden interior passage doors. The Main Building and Addition's roofing system consisted of two sections. The Main section

(original, northern area) of the building was constructed using a steel bar-joist roof framing system; structural steel metal roof decking; 3-IN tapered, rigid roof insulation; and a three-layer, built-up, asphaltic membrane roof covering with a protective, aluminium oxide flood coating. The Addition section (newer, southern area) of the building was constructed using a bar-joist roof framing system; structural steel metal roof decking; 3-IN tapered, rigid roof insulation; and a two-ply, 45-Mil, white, polyethylene, thermoplastic, elastomeric roof covering (Hypalon Sheet Polyester Roofing Membrane, the trademarked chlorosulfonated, polyethylene (CSPE) synthetic rubber supplied by Dupont, which is hot-air weldable in the field).

- **Year Built:** 1988
- **Location Description:** Urbanization Santa Juanita, Ave. Laurel, Santa Juanita, Bayamon, PR
- **GPS Latitude/Longitude:** 18.36595, -66.15377
- **Number of Stories:** 2
- **General Damage Information:**
  - **Date Damaged:** 9/20/2017
- **Cause of Damage:** Hurricane-force winds, wind-driven rain, and wind-driven debris caused directly by Hurricane Maria.
- **Building Damage:**

## 305240 Main Building

### WORK COMPLETED

#### (Main Bldg., Basement, Hallway ARC)

A. Replace, Int., 270SF Ceiling, 2FT x 4FT acoustic tile, suspended, 45FT(L) x 6FT(W) (50% completed)

#### (Main Bldg., Basement, Hallway South)

A. Paint, Int., 728SF Wall, ¼ IN thick plaster on concrete, 91FT(W) x 8FT(H)

#### (Main Bldg., Basement, Laboratory ARC 010)

A. Remove, replace, Int., 90SF Floor, VCT, 12x12 IN, 10 FT(L) x 9FT(W)

#### (Main Bldg., Exterior, Canopy)

A. Remove, replace, Ext., 410SF Entrance Canopy, steel-framed, barrel vault-shaped, fabric covering, 10FT(W) x 41FT(H)

#### (Main Bldg., Exterior, Entire Floor)

A. Remove, replace, Ext., 2ea Light, surface-mount, soffit, 1FT x 1FT, clear acrylic lens

**(Main Bldg., Exterior, Wall)**

A. Remove, replace, Ext., 2ea Lighting, parking lot luminaire, roof-mounted, single, 240/277-Volt, 400-Watt, metal halide bulbs

**(Main Bldg., Exterior, Wooden Patio Deck)**

A. Remove, replace, Ext., 180SF Entrance Canopy, metal-framed, arch-shaped, painted with fabric covering, 20 FT wide x 9 FT high

**(Main Bldg., Floor 1, Bathroom R107)**

A. Remove, replace, Int., 5ea Ceiling, 2FT x 4FT acoustic tile, suspended, 4 FT long x 2FT wide (60% completed)

B. Prepare, clean, paint, Int., 84SF toilet & urinal partitions, steel, clean/prep/paint, 12FT(L) x 7FT(W)

**(Main Bldg., Floor 1, Dining Room 101)**

A. Remove, replace, Int., 8ea Ceiling, 2 FT x 4 FT acoustic tile, suspended, 2 FT x 4 FT, (40% completed)

**(Main Bldg., Floor 1, Entrance Lobby)**

A. Remove, replace, Int., 200SF Ceiling, 2 FT x 4 FT acoustic tile, suspended, 20FT(L) x 10FT(W)

**(Main Bldg., Floor 1, Hallway)**

A. Remove, replace, Int., 109ea Ceiling, 2FT x 4FT acoustic tile, suspended, 4FT(L) x 2FT(W) (70% completed)

**(Main Bldg., Floor 1, Hallway Cargo Area)**

A. Remove, replace, Int., 222SF Ceiling, 2FT x 4FT acoustic tile, suspended, 37FT(L) x 6FT(W)

**(Main Bldg., Floor 1, Laboratory R094)**

A. Remove, replace, Int., 21ea Light, fluorescent, recessed Troffer (4-bulb), 4FT(L) x 2FT(W) (20% completed)

**(Main Bldg., Floor 1, Library)**

A. Remove, replace, Int., 770SF Floor, VCT, 12x12 IN, 77FT(L) x 10FT(W)  
(15% completed)

B. Remove, replace, Int., 262ea Ceiling, 2FT x 4FT acoustic tile, suspended, 4FT(L)  
x 2FT(W) (85% completed)

**(Main Bldg., Floor 1, Library R231)**

A. Remove, replace, Int., Base molding, vinyl, 4 IN, 49 FT long

B. Prepare, paint, Int., 430SF Wall, drywall, 43FT wide x 10FT high

**(Main Bldg., Floor 1, Office R067)**

A. Remove, replace, Int., 48SF Floor, VCT, 12x12 IN, 16FT(L) x 3FT(W)  
(35% completed)

**(Main Bldg., Floor 1, Office R198)**

A. Remove, replace, Int., 4ea Ceiling, 2FT x 4FT acoustic tile, suspended, 4FT(L)  
x 2FT(W)

**(Main Bldg., Floor 1, Office R201)**

A. Remove, replace, Int., 2ea Ceiling, 2FT x 4FT acoustic tile, suspended, 2FT(L)  
x 4FT(W)

**(Main Bldg., Floor 1, Stairway North)**

A. Prepare, paint, Int., 2,350 SF of Wall, ¼ IN thick plaster on concrete, 50FT(L)  
x 47FT(W) (50% completed)

B. Seal/paint, Int., 560SF Floor, concrete, 10 FT long x 56 FT wide

**(Main Bldg., Floor 1, Stairway South)**

A. Prepare, paint, Int., 2,350SF all, ¼ IN thick plaster on concrete, 50FT(L) x  
47FT(W) (50% completed)

B. Seal/paint, Int., 560SF Floor, concrete, 56IN(L) x 10FT(W)

**(Main Bldg., Floor 2, Bathroom R163)**

A. Remove, replace, Int., 112SF Ceiling, 2FT x 4FT acoustic tile, suspended, 14FT(L)  
x 8FT(W)

**(Main Bldg., Floor 2, Classroom R113)**

A. Remove, replace, Int., 693SF Ceiling, 2FT x 4FT acoustic tile, suspended, 21FT(L)  
x 33FT(W) (80% completed)

B. Remove, replace, Int., Base molding, vinyl, 4 IN, 102 FT long

**(Main Bldg., Floor 2, Classroom R115)**

A. Remove, replace, Int., 20ea Ceiling, 2FT x 4FT acoustic tile, suspended, 2FT(L) x 4FT(W)

**(Main Bldg., Floor 2, Classroom R549)**

A. Remove, replace, Int., 5ea Ceiling, 2FT x 2FT acoustic tile, suspended, tegular, 2FT(L) x 2FT(W) (80% completed)

**(Main Bldg., Floor 2, Conference)**

A. Remove, replace, Int., 8ea Ceiling, 2FT x 4FT acoustic tile, suspended, 4FT(L) x 2FT(W) (90% completed)

B. Prepare, paint, Int., 510SF Wall, ¼ IN thick plaster on concrete, 34FT(W) x 15FT(H)

**(Main Bldg., Floor 2, Hallway)**

A. Remove, replace, Int., 1,296SF Ceiling, 2FT x 4FT acoustic tile, suspended, 216FT(L) x 6FT(W) (25% completed)

**(Main Bldg., Floor 2, Hallway Production)**

A. Remove, replace, Int., 24 EA Ceiling, 2FT x 2FT acoustic tile, suspended, tegular (40% completed)

**(Main Bldg., Floor 2, Laboratory R173)**

A. Remove, replace, Int., 144F Ceiling, 2FT x 4FT acoustic tile, suspended, 8FT long x 18FT wide

**(Main Bldg., Floor 2, Laboratory R174)**

A. Remove, replace, Int., 324 SF Ceiling, 2FT x 4FT acoustic tile, suspended, 18FT long x 18FT wide (10% completed)

**(Main Bldg., Floor 2, Laboratory R175)**

A. Remove, replace, Int., 348SF Ceiling, 2FT x 4FT acoustic tile, suspended, 12FT(L) x 29FT(W) (50% completed)

**(Main Bldg., Floor 2, Laboratory R176)**

A. Remove, replace, Int., 16SF Ceiling, 2FT x 4FT acoustic tile, suspended  
30% completed.

**(Main Bldg., Floor 2, Laboratory R383)**

A. Remove, replace, Int., 8 each of Ceiling, 2 FT x 4 FT acoustic tile, suspended, 4  
FT long x 2 FT wide

**(Main Bldg., Floor 2, Office R119)**

A. Remove, replace, Int., 130 SF of Ceiling, 2 FT x 4 FT acoustic tile, suspended, 10  
FT long x 13 FT wide (50% completed)

**(Main Bldg., Floor 2, Office R215)**

A. Paint, Int., 320 SF of Wall, ¼ IN thick plaster on concrete, painted, 40 FT wide x 8  
FT high

**(Main Bldg., Floor 2, Office R224)**

A. Remove, replace, Int., 3 each of Ceiling, 2 FT x 4 FT acoustic tile, suspended, 4  
FT long x 2 FT wide

**(Main Bldg., Floor 2, Service Hall)**

A. Remove, replace, Int., 2 each of Fire Alarm System, Ceiling mount smoke detector

**(Main Bldg., Pharmacology and Microbiology Dept)**

A. Remove, replace, Ext., 2 each of Fire Alarm System, Duct mount smoke detectors

**(Main Bldg., Roof)**

A. Remove, replace, Ext., 18,462SF Roof, BUR asphaltic membrane, 3ply, with rigid  
insulation and silver oxide coating, 181 FT long x 102 FT wide (5% completed)

B. Remove, replace, Ext., 372 SF flashing, Parapet North Wall, 62 FT long x 6 FT high

C. Remove, replace, Ext., 426 SF flashing, parapet wall cap, 568 FT long x 9 IN high

D. Remove, replace, Ext., 276 SF flashing, Parapet South Wall, 46 FT long x 6 FT high

E. Remove, replace, Ext., 1 ea Exhaust Fan, 2 FT dia, Kitchen Area

F. Remove, replace, Ext., 1ea Fan Exhaust pipe, 2FTdia., 12FT(H), Morgue Area

G. Remove, replace, Ext., 2ea Fan Exhaust pipe, 1FT dia., 6FT(H), & fractional hp  
motor, Laboratory Area

H. Remove, replace, Ext., 1ea Exhaust, 18 IN dia. head of exhaust pipe

I. Remove, replace, Ext., 1ea Air Conditioning, 10-Ton package unit

J. Remove, replace, Ext., 1ea Rooftop Air Extractor fan, 2FTdia., w/1/2-HP motor  
(5% completed)

## **WORK TO BE COMPLETED**

The applicant will utilize contract services to repair the UCC Main Building & Addition back to it's pre-disaster design function, capacity and within the existing footprint.

### **(Main Bldg., Basement, Air Handler Unit R516)**

- A. Repair, Int., 130SF Wall, ¼ IN(T) plaster on concrete spalling, 10FT(L) x 13FT(W)
- B. Scrape, Paint, Int., 325SF Wall, ¼ IN(T) plaster on concrete, 25FT x 13FT(W)

### **(Main Bldg., Basement, Hallway ARC)**

- A. Remove, replace, 1 ea Light, fluorescent, recessed Troffer, 4 FT long x 2 FT wide
- B. Remove, replace, 2ea Light, fluorescent, Troffer, acrylic lens, 4FT(L) x 2FT(W)
- C. Remove, replace, 270SF, 2FTx4FT acoustic tile, suspended, 45FT(L)x6FT(W)
- D. Paint, Int., 736 SF of Wall, ¼ IN thick plaster on concrete, 92 FT wide x 8 FT high
- E. Repair, paint, Int., 6SF Wall, ¼ IN thick plaster on concrete, 6 FT long x 1 FT wide
- F. Remove, replace, Int., 306 SF of Floor, VCT, 12x12 IN, 51 FT long x 6 FT wide
- G. Remove, replace, Int., Base molding, vinyl, 4 IN, 81 FT long

### **(Main Bldg., Basement, Hallway South)**

- A. Remove, replace, 230 SF of Floor, VCT, 12x12 IN, 46 FT long x 5 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 91 FT long

### **(Main Bldg., Basement, Laboratory ARC 010)**

- A. Remove, replace, 2ea Light, Troffer, acrylic prismatic lens only, 4 FT long x 2 FT
- B. Remove, replace, Base molding, vinyl, 4 IN, 35 FT long

### **(Main Bldg., Basement, Laboratory ARC 014)**

- A. Remove, replace, 28 SF of Floor, VCT, 12x12 IN, 2 FT long x 14 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 49 FT long

### **(Main Bldg., Basement, Laboratory ARC 015)**

- A. Repair, paint, 16 SF of Wall, ¼ IN thick plaster on concrete, 1 FT long x 16 FT wide

### **(Main Bldg., Basement, Laboratory ARC 016)**

- A. Repair, paint, 189 SF of Wall, ¼ IN thick plaster on concrete, 21 FT long x 9 FT wide

### **(Main Bldg., Basement, Laboratory ARC 017)**

- A. Prep, paint, 232 SF of Wall, ¼ IN thick plaster on concrete, 29 FT long x 8 FT wide
- B. Repair, 18 SF of Ceiling, drywall, repair, 18 FT long x 1 FT wide



C. Paint, 232 SF of Ceiling, drywall, paint, 18 FT long x 12 FT wide

**(Main Bldg., Basement, Laboratory ARC 023)**

A. Repair, paint, 80 SF of Wall, ¼ IN thick plaster on concrete, 10 FT wide x 8 FT high

**(Main Bldg., Basement, Laboratory ARC 024)**

A. Repair, paint, 80 SF of Wall, ¼ IN thick plaster on concrete, 10 FT long x 8 FT wide

B. Repair, 8SF Ceiling, drywall, 4FT long x 2 FT wide

C. Paint, 240SF of Wall, ¼ IN thick plaster on concrete, 24FT(W) x 10FT(H)

**(Main Bldg., Basement, Laboratory ARC 025)**

A. Repair, paint, 80SF Wall, ¼ IN thick plaster on concrete, 8FT long x 10FT wide

B. Replace, 1 ea Light, fluorescent, surface-mounted, 6 IN x 48 IN, acrylic lens cover

**(Main Bldg., Basement, Laboratory ARC 026)**

A. Repair, paint, 24 SF of Wall, ¼ IN thick plaster on concrete, 8 FT long x 3 FT wide

B. Paint, 88 SF of Wall, ¼ IN thick plaster on concrete, 11 FT wide x 8 FT high

**(Main Bldg., Basement, Laboratory Hallway)**

A. Repair, 21 SF of Wall, ¼ IN thick plaster spall on concrete, 7 FT long x 3 FT wide

**(Main Bldg., Basement, Laboratory Interior Hallway)**

A. Paint, 440 SF of Wall, ¼ IN thick plaster on concrete, 55 FT wide x 8 FT high

B. Prep, seal/paint, 679 SF of Floor, concrete, epoxy, 97 FT long x 7 FT wide, (peeling)

**(Main Bldg., Basement, Laboratory R003)**

A. Repair, paint, 12SF Wall, ¼ IN thick plaster on concrete, spall, 6 FT wide x 2 FT high

B. Prep, paint, 80SF all, ¼ IN thick plaster on concrete, 10 FT long x 8 FT high, peeling

C. Replace, 2ea Light, fluorescent, Troffer, acrylic lens only, 4 FT long x 2 FT wide

**(Main Bldg., Basement, Laboratory R004)**

A. Remove, replace, 2ea Ceiling, 2FT x 4FT acoustic tile, suspended, 4FT(L) x 2FT(W)

**(Main Bldg., Basement, Laboratory R009)**

A. Remove, replace, 110SF Floor, VCT, 12x12 IN, 10 FT long x 11 FT wide

B. Remove, replace, Base molding, vinyl, 4 IN, 39 FT long

**(Main Bldg., Basement, Laboratory R027)**

- A. Repair spall, 2SF Wall, ¼ IN thick plaster on concrete, 2FT long x 1FT wide
- B. Prep, paint, 189 SF of Wall, ¼ IN thick plaster on concrete, 21 FT long x 9 FT wide
- C. Repair, 20 SF Ceiling, drywall cracks, 4 FT long x 5 FT wide
- D. Prep, paint, 140 SF of Ceiling, drywall, 10 FT long x 14 FT wide

**(Main Bldg., Basement, Laboratory R028 and 029)**

- A. Repair crack, paint, 136 SF of Ceiling, drywall, 8 FT long x 17 FT wide

**(Main Bldg., Basement, Laboratory R029 and 028)**

- A. Repair crack, paint, 10 SF of Wall, drywall, 5 FT long x 2 FT wide

**(Main Bldg., Basement, Laboratory R032)**

- A. Repair spall, paint, 6SF Wall, ¼IN thick plaster on concrete, 3FT wide x 2FT high
- B. Paint, 88 SF of Wall, ¼ IN thick plaster on concrete, 11 FT wide x 8 FT high

**(Main Bldg., Basement, Laboratory Reception Lobby)**

- A. Remove, replace, 140SF, 2FTx4FT acoustic tile, suspended, 14FT(L) x 10FT(W)
- B. Remove, replace, Base molding, vinyl, 4 IN, 34 FT long
- C. Remove, replace, 140 SF of Floor, VCT, 12x12 IN, 10 FT long x 14 IN wide

**(Main Bldg., Basement, Mechanical Room)**

- A. Repair spall, paint, 117SF Wall, ¼ IN thick plaster on concrete, 13FT(L) x 9FT(W)

**(Main Bldg., Basement, Stairway)**

- A. Remove, replace, 36 SF of Floor, VCT, 12x12 IN, 6 FT long x 6 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 20 FT long

**(Main Bldg., Basement, Storage Room R031)**

- A. Repair spall, paint, 64SF Wall, ¼IN thick plaster on concrete, 8FT(L) x 8FT(W)

**(Main Bldg., Basement, Storage Room Under Stairway)**

- A. Replace, paint, 534 SF Wall, ¼IN thick plaster on concrete, 89 FT wide x 6 FT high
- B. Paint, 185 SF Ceiling, ¼ IN thick plaster on concrete, 37 FT long x 5 FT wide
- C. Repair spall, seal, 150 SF of Floor, concrete, 30 FT long x 5 FT wide

**(Main Bldg., Basement, Storage Room Under Stairway)**

A. Repair spall, paint, 330SF Wall, ¼ IN thick plaster on concrete, 55FT(L) x 6FT high

**(Main Bldg., Entire Building)**

A. Remove, replace, 7SF Elevator 340 lobby floor, 12IN X 12IN VCT, 6FT(L) x 4.5FT

B. Remove, replace, 27SF Elevator 340 ceiling, wood laminate, 6FT x 4.5 FT

C. Remove, replace, 6ea Elevator 340 lobby, LED recessed lighting fixtures

**(Main Bldg., Exterior, Entire Floor)**

A. Remove, replace, 1ea Light, Wall Pack, 110-Volt, 200-Watt, high-pressure sodium

B. Repair spall, paint, 162SF Wall, ¼IN thick plaster on concrete, 21FT long x 8FT high

C. Paint, 7,000SF Wall, ¼ IN thick plaster on concrete, 250 FT wide x 28 FT high

D. Scrape, repair spall, paint, 714SF Wall, ¼IN plaster on concrete, 357FT(W) x 2FT(H)

E. Prep, paint, 2,523SF Wall, ¼IN thick plaster on concrete, 87FT(L) x 29FT(H)

F. Repair spall, paint, 528SF Wall, ¼ IN thick plaster on concrete, 264FT(L) x 2FT(H)

G. Prep, paint, 1,484SF Wall, ¼IN thick plaster on concrete, 53FT(W) x 28FT(H)

H. Repair spall, paint, 100SF Wall, ¼IN thick plaster on concrete, 50FT wide x 2FT high

I. Paint, 2,800SF of Wall, ¼IN thick plaster on concrete, 28 FT wide x 100 FT high

**(Main Bldg., Exterior, Fascia East & West)**

A. Repair spall, paint, 530SF Wall, ¼ IN thick plaster on concrete, 53FT(L) x 10FT(H)

**(Main Bldg., Exterior, Generator Shed Area)**

A. Remove, replace, 450SF Roof, ribbed metal, 26g, galvanized, 25FT(L) x 18FT

B. Prepare, paint, 1,170SF Wall, ¼IN thick plaster on concrete, 130FT(W) x 9FT(H)

**(Main Bldg., Exterior, Handicap-Access Ramp)**

A. Prep, seal, 114SF Floor, concrete, epoxy, 38 FT long x 3 FT wide, peeling

**(Main Bldg., Exterior, Loading Dock)**

A. Remove, replace, 1ea Entrance awning, aluminium-frame, fabric, 14FT(L) x 2FT(W)

B. Remove, replace, 1ea Security gate, galv. tubular steel, 2 IN-dia. steel bearing pin hinges, painted finish, 9 FT wide x 10 FT high

**(Main Bldg., Exterior, Main Entrance)**

A. Repair spall, paint, 188SF Ceiling, ¼IN thick plaster on concrete, 47FT(L) x 4FT(W)

**(Main Bldg., Exterior, Ramp)**

- A. Remove, replace, paint, Hand Rail, galv. steel pipe, 1 1/2-IN dia., triple rail, 25 FT(L)
- B. Scrape, paint, Hand Rail, galv. Steel pipe, 2 IN-dia., double rail, 184 FT long

**(Main Bldg., Exterior, Steel Security Gate)**

- A. Repair, 1ea Tubular steel security gate, 1IN D x 8IN W x 8FT L

**(Main Bldg., Exterior, Wooden Patio Deck)**

- A. Remove, replace, 108SF Wood Deck Railing, 3FT(T), 2IN x 4IN top rail, angled balustrades, 6 IN on-center, painted, 36FT(L) x 3FT(W)

**(Main Bldg., Floor 1, Bathroom R106)**

- A. Remove, replace, 3ea Ceiling, 2FT x 4FT acoustic tile, suspended, 2FT long x 4FT
- B. Remove, replace, 2ea Light, fluorescent, Troffer, acrylic lens only, 4FT(L) x 2FT(W)

**(Main Bldg., Floor 1, Bathroom R107)**

- A. Repair, paint, 36SF Ceiling, drywall, 12 FT long x 3 FT wide
- B. Remove, replace, Ceiling, 2FTx4FT acoustic tile, grid, outside L-angle only, 45FT
- C. Remove, replace, paint, 16 SF Wall, drywall, 8 FT wide x 2 FT high
- D. Remove, replace, 12 SF Wall, 4 IN x 4 IN ceramic tile, 2 FT wide x 6 FT high
- E. Replace, 2ea Light, fluorescent, Troffer, acrylic lens only, 4 FT long x 2 FT wide
- F. Remove, replace, 5ea Ceiling, 2 FT x 4 FT acoustic tile, suspended, 4FT long x 2FT wide

**(Main Bldg., Floor 1, Cafeteria)**

- A. Remove, replace, 25ea, 2FTx2FT acoustic tile, suspended, tegular, 2FT(L) x 2FT(W)
- B. Remove, replace, 28SF Roof, metal flashing, 26g, 6IN x 6IN, 28FT(L) x 1FT(W)

**(Main Bldg., Floor 1, Classroom R357 & 356)**

- A. Repair spalls, paint, 72 SF Wall, 1/4IN thick plaster on concrete, 12FT(W) x 6FT(H)
- B. Paint, 702 SF Wall, 1/4 IN thick plaster on concrete, painted, 78 FT wide x 9 FT high
- C. Remove, replace, Window, aluminium window frames, caulk only, 152 FT long
- D. Remove, replace, Base molding, vinyl, 4 IN, 40 FT long

**(Main Bldg., Floor 1, Classroom R357 & R356)**

- A. Remove, replace, 144SF of Vertical blinds, PVC, 3-IN blades, 24FT wide x 6FT high,

**(Main Bldg., Floor 1, Classroom R360)**

- A. Remove, replace, 120 SF of Floor, VCT, 12x12 IN, 15 FT long x 8 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 43 FT long
- C. Patch, paint, cracked, 24SF Wall, ¼IN plaster on concrete, 8 FT wide x 3 FT high,
- D. Paint, 470 SF of Wall, ¼ IN thick plaster on concrete, 47 FT wide x 10 FT high

**(Main Bldg., Floor 1, Classroom R562)**

- A. Remove, replace, Window, aluminium frame, perimeter caulk, 80 FT long
- B. Remove, replace, Base molding, vinyl, 4 IN, 10 FT long

**(Main Bldg., Floor 1, Dining Room 101)**

- A. Remove, replace, 8ea Ceiling, 2 FT x 4 FT acoustic tile, suspended, 2FT(L) x 4FT(W)

**(Main Bldg., Floor 1, Dining Room R101)**

- A. Remove, replace, Window, aluminium frames, perimeter caulk, 44 FT long
- B. Patch cracks, paint, 16F wall, ¼IN thick plaster on concrete, 2FT wide x 8FT high
- C. Paint, 128 SF of Wall, ¼ IN thick plaster on concrete, 16 FT wide x 8 FT high
- D. Remove, replace, 84 SF of Floor, VCT, 12x12 IN, 28 FT long x 3 FT wide
- E. Remove, replace, Base molding, vinyl, 4 IN, 36 FT long

**(Main Bldg., Floor 1, Electrical Room)**

- A. Remove, replace, 40SF Ceiling, 2FT x 4FT acoustic tile, suspended, 8FT(L)  
x 5FT(W)

**(Main Bldg., Floor 1, Entrance Lobby)**

- A. Remove, replace, 60SF Ceiling, 2FT x 4FT acoustic tile, suspended, grid, 10FT x 6FT

**(Main Bldg., Floor 1, Hallway)**

- A. Remove, replace, 109ea Ceiling, 2FT x 4FT acoustic tile, 4FT(L) x 2FT(W)
- B. Replace, 6ea Light, fluorescent, Troffer, acrylic lens only, 4FT long x 2FT wide
- C. Paint, 3 ea Ceiling, drywall, soffit, paint, 6 FT long x 8 FT wide
- D. Repair spall, paint, 32SF Wall, ¼ IN thick plaster on concrete, 16FT long x 2FT high
- E. Paint, 72 SF of Wall, ¼ IN thick plaster on concrete, 9 FT wide x 8 FT high
- F. Repair spall, paint, 16SF Wall, ¼ IN thick plaster on concrete, 2 FT wide x 8 FT high
- G. Remove, replace, 280 SF of Floor, VCT, 12x12 IN, 280 FT long x 1 IN wide
- H. Paint, 232 SF of Wall, ¼ IN thick plaster on concrete, 29 FT long x 8 FT high
- I. Remove, replace, Base molding, vinyl, 4 IN, 280 FT long

**(Main Bldg., Floor 1, Hallway Cargo Area)**

- A. Remove, replace, 3ea Light, fluorescent, Troffer, 4 FT long x 2 FT wide

- B. Remove, replace, 10 SF of Floor, VCT, 12x12 IN, 10 FT long x 1 FT wide
- C. Paint, 640SF Wall, ¼ IN thick plaster on concrete, 80FT wide x 8 FT high

**(Main Bldg., Floor 1, Hallway CDDC)**

- A. Patch cracks, paint, 8 SF of Wall, drywall, 2 FT long x 4 FT wide
- B. Remove, replace, 18ea Ceiling, 2FTx2FT acoustic tile, tegular, 2FT x 2FT
- C. Repair, paint, 198 SF of Wall, drywall, 22 FT wide x 9 FT high

**(Main Bldg., Floor 1, Hallway Faculty Bathroom)**

- A. Remove, replace, 174 SF of Floor, VCT, 12x12 IN, 29 FT long x 6 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 46 FT long

**(Main Bldg., Floor 1, Laboratory R094)**

- A. Remove, replace, paint 1,624 SF Ceiling, suspended ceiling system, 2-IN Tees, 1-13/16-IN cross Tees, 5/8 IN Drywall, mold-resistant, painted, 58 FT long x 28 FT wide
- B. Remove, replace, 7ea Air Conditioning, HVAC, ceiling diffusers, 4-way, 2FT x 2FT
- C. Paint, 1,624SF Ceiling, drywall, 28 FT long x 58 FT wide
- D. Remove, replace, 21ea Light, fluorescent, Troffer 4-bulb, 4FT(L) x 2FT(W)

**(Main Bldg., Floor 1, Laboratory R097)**

- A. Replace, 4ea Light, fluorescent, recessed Troffer, acrylic lens only, 4FT(L) x 2 FT(W)
- B. Repair, paint, 14 SF Ceiling, drywall, 14 FT long x 1 FT wide
- C. Paint, 224 SF of Ceiling, drywall, paint, 16 FT long x 14 FT wide

**(Main Bldg., Floor 1, Library)**

- A. Remove, replace, Base molding, vinyl, 4 IN, 242 FT long
- B. Repair cracks, paint, 26SF Wall, ¼IN thick plaster on concrete, 26FT(W) x 1FT(H)
- C. Replace, Window, aluminium frames, perimeter caulk, 214 FT long
- D. Remove, replace, 1ea Light, fluorescent, Troffer, 4 FT long x 2 FT wide
- E. Replace, 4ea Light, fluorescent, Troffer, acrylic lens only, 4FT long x 2FT wide
- F. Remove, replace, 770SF Floor, VCT, 12x12 IN, 77FT x 10FT
- G. Remove, replace, 262ea Ceiling, 2 FTx4 FT acoustic tile

**(Main Bldg., Floor 1, Library Including Rooms 204 @ 206)**

- A. Paint, 50 SF of Ceiling, drywall, 75 FT long x 2 FT wide
- B. Remove, replace, 18SF floor carpet + 12LF alum. transition strip, 6FT(L) x 3 FT(W)

**(Main Bldg., Floor 1, Library R231)**

- A. Repair, paint, 129SF Wall, drywall, 43 FT wide x 3 FT high

**(Main Bldg., Floor 1, Library R357 & 356)**

A. Remove, replace, 72 SF of Floor, VCT, 12x12 IN, 12 FT long x 6 FT wide

**(Main Bldg., Floor 1, Lobby)**

A. Remove, replace, 88SF Ceiling, 2T x 2 FT acoustic tile, suspended, tegular, architectural/designer series, fissured

B. Remove, replace, 84SF Ceiling, 2FT x 2FT acoustic tile, suspended, tegular, grid only, 6 FT long x 14FT wide

C. Paint, 108 SF Ceiling, drywall, paint, 108FT long x 1FT wide

D. Repair, paint, 1SF eiling, drywall, soffit, 1 FT long x 1 FT wide

E. Paint, 78SF Ceiling, drywall, paint, 13 FT long x 6 FT wide

**(Main Bldg., Floor 1, Office R067)**

A. Remove, replace, window, aluminium frames, perimeter caulk, 70 FT long

B. Remove, replace, Base molding, vinyl, 4 IN, 23 FT long

C. Remove, replace, 48 SF of Floor, VCT, 12x12 IN, 16FT x 3FT

**(Main Bldg., Floor 1, Office R069)**

A. Remove, replace, Window, aluminium frames, perimeter caulk only, 70 FT long

**(Main Bldg., Floor 1, Office R071)**

A. Remove, replace, Window, aluminium frames, perimeter caulk only, 70 FT long

**(Main Bldg., Floor 1, Office R195)**

A. Repair spalls, paint, 24SF Wall, ¼ IN thick plaster on concrete, 8FT wide x 3FT high

B. Scrape, paint, 36SF Wall, ¼ IN thick plaster on concrete, 4 FT wide x 9 FT high

C. Remove, replace, Window, aluminium frames, perimeter caulk only, 46 FT long

D. Remove, replace, Base molding, vinyl, 4IN, 10FT long

**(Main Bldg., Floor 1, Office R197)**

A. Remove, replace, 3ea Ceiling, 2FT x 4FT acoustic tile, suspended, 4FT long x 2FT

B. Remove, replace, Window, aluminium frames, perimeter caulk only, 46 FT long

C. Patch cracks, paint, 24F Wall, ¼ IN thick plaster on concrete, 8 FT long x 3 FT wide

D. Paint, 36 SF of Wall, ¼ IN thick plaster on concrete, 9 FT long x 4 FT wide

**(Main Bldg., Floor 1, Office R198)**

A. Remove, replace, Window, aluminium frames, perimeter caulk only, 80 FT long

**(Main Bldg., Floor 1, Office R200)**

- A. Remove, replace, 165 SF of Floor, VCT, 12x12 IN, 11 FT long x 15 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 50 FT long

**(Main Bldg., Floor 1, Office R201)**

- A. Remove, replace, 150SF Floor, VCT, 12x12 IN, 10 FT long x 15 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 47 FT long

**(Main Bldg., Floor 1, Office R202)**

- A. Remove, replace, 60 SF Floor, VCT, 12x12 IN, 10 FT long x 6 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 24 FT long

**(Main Bldg., Floor 1, Server Room)**

- A. Remove, replace, 130SF Ceiling, 2 FT x 4 FT acoustic tile, suspended, 15/16 IN thick, fiberglass-faced, with grid, 10 FT long x 13 FT wide
- B. Remove, replace, 1ea Light, fluorescent, Troffer, 4FT(L) x 2FT(W)
- C. Remove, replace, 1ea Light, fluorescent, Troffer, 2 FT long x 2 FT wide
- D. Remove, replace, 1ea Light, fluorescent, Troffer, acrylic lens only, 4FT(L) x 2FT(W)
- E. Remove, replace, 1ea Door, 3070, wood, HC, birch veneer, 3FT wide x 7 FT high
- F. Remove, replace, 30SF Ceiling, 2FT x 4 FT acoustic tile suspended, w/grid, 6FT(L) x 5FT(W)

**(Main Bldg., Floor 1, Stairway North)**

- A. Paint, 2,350SF Wall, ¼ IN thick plaster on concrete, 50 FT long x 47 FT wide
- B. Paint, 500SF Ceiling, ¼ IN thick plaster on concrete, 50 FT long x 10 FT wide
- C. Remove, replace, 1ea Light, fluorescent, surface-mounted, 1FT x 4FT

**(Main Bldg., Floor 1, Stairway South)**

- A. Paint, 2,350SF all, ¼ IN thick plaster on concrete, 50 FT long x 47 FT wide
- B. Paint, 500SF Ceiling, ¼ IN thick plaster on concrete, 50 FT long x 10 FT wide
- C. Repair spalls, paint, 5SF Wall, ¼ IN thick plaster on concrete, 5 FT wide x 1 FT high
- D. Remove, replace, 1 ea Light, fluorescent, suspended, 6IN x 4FT

**(Main Bldg., Floor 2, Bathroom R163)**

- A. Building Interior, 2ea Light, fluorescent, Troffer, acrylic lens only, 4FT(L) x 2FT(W)

**(Main Bldg., Floor 2, Bio Chemistry, Hallway Lobby)**



- A. Remove, replace, 13ea Ceiling, 2FT x 4FT acoustic tile, suspended, 2FT(L) x 4FT(W)
- B. Replace, 2ea Light, fluorescent, Troffer, acrylic lens cover only, 2FT x 4FT

**(Main Bldg., Floor 2, Classroom 166)**

- A. Repair spalls, paint, 315SF all, ¼ IN thick plaster on concrete, 35FT wide x 9FT high
- B. Remove, replace, Window, aluminium frames, perimeter caulk only, 44 FT long
- C. Patch, paint, 16SF Wall, ¼IN plaster on concrete, 8 FT long x 2 FT wide
- D. Remove, replace, 24ea Ceiling, 2FT x 4FT acoustic tile, suspended, 4FT(L) x 2FT(W)

**(Main Bldg., Floor 2, Classroom 547)**

- A. Remove, replace, 17 SF of Floor, VCT, 12x12 IN, 17 FT long x 1 FT wide

**(Main Bldg., Floor 2, Classroom R113)**

- A. Remove, replace, 1ea Window, glass, 3/16-IN thick, single-glazed, tinted, 46 IN wide x 62 IN high
- B. Remove, replace, 693SF Ceiling, 2FT x 4FT acoustic tile, suspended, 21FT long x 33FT wide
- C. Remove, replace, Window, aluminium frames, perimeter caulk only, 138FT long
- D. Remove, replace, 1ea, A/C ductwork, 16IN dia, round, galv. mounting flange only
- E. Remove, replace, 384SF Ceiling, 2FT x 4FT acoustic tile, suspended, grid only, 24FT(L) x 16FT(W)

**(Main Bldg., Floor 2, Classroom R115)**

- A. Remove, replace, 308SF Ceiling, 2FT x 4FT acoustic tile, suspended & grid, 28FT(L) x 11FT wide
- B. Remove, replace, 4ea Light, fluorescent, Troffer, 2FT long x 4FT wide

**(Main Bldg., Floor 2, Classroom R542)**

- A. Remove, replace 5ea Ceiling, 4FTx4FT acoustic tile, suspended, tegular (80SF)
- B. Repair, paint, 96 SF of Wall, drywall, repair, 48 FT long x 2 FT wide
- C. Paint, 298SF Ceiling, drywall, paint, 149FT long x 2FT wide
- D. Remove, replace, Base molding, wood, 2 5/8 IN x 1/2 IN, 25 FT long
- E. Paint, 837SF Wall, drywall, 93 FT wide x 9 FT high
- F. Remove, replace, 8SF Wall, drywall, 8 FT wide x 1 FT high

**(Main Bldg., Floor 2, Classroom R548 Production Room)**

- A. Remove, replace, 192SF Floor, carpet, commercial-grade, 12FT long x 16FT wide
- B. Paint, 270 SF of Wall, drywall, 30 FT wide x 9 FT high
- C. Remove, replace, 12ea Ceiling, 2 FT x 2 FT acoustic tile, suspended, tegular, 2T long x 2FT wide

**(Main Bldg., Floor 2, Classroom R549)**

- A. Remove, replace, 120SF Floor, carpet, commercial-grade, 10FT long x 12FT wide
- B. Prepare, paint urethane, Base molding, wood, 2 5/8 IN x 1/2 IN, 36 FT long
- C. Clean, 3ea Window, door, sidelight, non-insulated glazing, 16 IN x 30 IN
- D. Remove, replace, 5ea Ceiling, 2FT x 2FT acoustic tile, suspended, tegular, 2FT long x 2 FT wide

**(Main Bldg., Floor 2, Classroom R553 Study Room)**

- A. Remove, replace, Window, aluminium frames, perimeter caulk only, 46 FT long

**(Main Bldg., Floor 2, Classroom R555 Computers Room)**

- A. Patch, paint, 280SF Ceiling, drywall, 140FT long x 2FT wide
- B. Paint, 656SF Wall, drywall, 82 FT wide x 8 FT high
- C. Prepare, stain, urethane, Base molding, wood, 2 5/8 IN x 1/2 IN, 82FT long
- D. Remove, replace, 48SF Floor, VCT, 12x12 IN, 8 FT long x 6 FT wide
- E. Remove, replace, 1ea manual, sliding room partitions, dbl-faced wood veneer finish, and perimeter rubber gaskets, 80 IN wide x 8 FT high

**(Main Bldg., Floor 2, Classroom R555, Computers Room)**

- A. Remove, replace, 30ea Ceiling, 2FT x 4FT acoustic tile, suspended

**(Main Bldg., Floor 2, Conference)**

- A. Remove, replace, paint, 12SF Ceiling, drywall, 6 FT long x 2 FT wide
- B. Remove, replace, 1ea Ceiling, 2FT x 4FT acoustic tile, suspended, tegular
- C. Remove, replace, 8ea Ceiling, 2FT x 4FT acoustic tile, suspended, 4FT long x 2FT wide

**(Main Bldg., Floor 2, Dining Room R149)**

- A. Remove, replace, Base molding, vinyl, 4 IN, 47 FT long

**(Main Bldg., Floor 2, Electrical Room)**

- A. Remove, replace, 36SF Ceiling, drywall, 18 FT long x 2 FT wide
- B. Paint, 200 SF of Wall, drywall, paint, 25 FT wide x 8 FT high
- C. Remove, replace, 2 each of Door, wood, SC w std hardware, 3FT wide x 7FT high

**(Main Bldg., Floor 2, Elevator Machine Room)**

- A. Remove, replace, 48SF Ceiling, 2FTx4FT acoustic tile, suspended, 8FT(L) x 6FT(W)

**(Main Bldg., Floor 2, Entire Floor)**

A. Remove, replace, 1,440 SF of Ceiling, 2 FT x 4 FT acoustic tile, suspended, 144 FT(L) x 10 FT wide

**(Main Bldg., Floor 2, Hallway)**

- A. Remove, replace, 1,440 SF of Floor, VCT, 12x12 IN, 144 FT long x 10 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 109 FT long
- C. Remove, replace, 363 SF of Floor, VCT, 12x12 IN
- D. Remove, replace, Base molding, vinyl, 4 IN, 78 FT long
- E. Remove, replace, 132SF Ceiling, 2 FT x 4 FT acoustic tile, suspended, grid only 22FT(L) x 6FT(W)
- F. Remove, replace, 3ea Light, fluorescent, Troffer, 4 FT long x 2 FT wide
- G. Remove, replace, paint, 2 ea Ceiling, drywall, 7 FT long x 7 FT wide
- H. Remove, replace, Base molding, vinyl, 4 IN, 420 FT long
- I. Remove, replace, 492 SF of Floor, VCT, 12x12 IN, 82 FT long x 6 FT wide
- J. Patch, paint, 16 SF of Wall, ¼ IN thick plaster on concrete, 2 FT wide x 8 FT high
- K. Paint, 88 SF of Wall, ¼ IN thick plaster on concrete, 11 FT wide x 8 FT high
- L. Remove, replace, 1,296SF Ceiling, 2 FT x 4 FT acoustic tile, suspended, 216 FT long x 6 FT wide

**(Main Bldg., Floor 2, Hallway Computer Laboratory)**

- A. Remove, replace, 4 SF of Wall, drywall, repair, 4 FT wide x 1 FT high
- B. Paint, 256 SF of Wall, drywall, paint, 32 FT wide x 8 FT high

**(Main Bldg., Floor 2, Hallway Presidential Lobby)**

- A. Remove, replace, Base molding, vinyl, 4 IN, 131 FT long

**(Main Bldg., Floor 2, Hallway Production)**

- A. Remove, replace, 1ea Light, fluorescent, Troffer, 2 FT long x 2 FT wide
- B. Remove, replace, 138SF Floor, VCT, 12x12 IN, 23 FT long x 6 FT wide
- C. Prepare, stain, urethane, Base molding, wood, 2 5/8 IN x 1/2 IN, 34 FT long
- D. Remove, replace, 24ea Ceiling, 2FT x 2FT acoustic tile, suspended, regular

**(Main Bldg., Floor 2, Hallway R117)**

- A. Remove, replace, paint, 56SF Ceiling, drywall, 7 FT long x 8 FT wide

**(Main Bldg., Floor 2, Hallway R291)**

- A. Remove, replace, 88 SF of Floor, VCT, 12x12 IN, 22 FT long x 4 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 37 FT long
- C. Remove, replace, paint, 16 SF of Ceiling, drywall, repair, 4 FT long x 4 FT wide
- D. Paint, 88 SF of Ceiling, drywall, painted, 22 FT long x 4 FT wide

**(Main Bldg., Floor 2, Hallway Stairway)**

- A. Remove, replace, 3ea Light, fluorescent, recessed, round, 8 IN dia., 26-Watt

**(Main Bldg., Floor 2, Kitchen 145)**

- A. Repair spalls, paint, 81 SF of Wall, ¼ IN thick plaster on concrete, 9FT wide x 9FT
- B. Paint, 90SF Wall, drywall, 10 FT wide x 9 FT high

**(Main Bldg., Floor 2, Laboratory 162)**

- A. Remove, replace, Base molding, vinyl, 4 IN, 53 FT long

**(Main Bldg., Floor 2, Laboratory 499)**

- A. Remove, replace, 132SF Ceiling, 2FTx4FT acoustic tile, suspended, 11FT(L)  
x 12FT(W)

**(Main Bldg., Floor 2, Laboratory R111)**

- A. Remove, replace, Window, aluminium frames, perimeter caulk only, 184 FT long
- B. Repair spalls, paint, 130SF Wall, ¼ IN plaster on concrete, 26 FT long x 5 FT high
- C. Repair spalls, paint, 100SF Wall, ¼ IN thick plaster on concrete, 20FT(L) x 5FT(H)
- D. Remove, replace, 858SF ceiling, 2FT x 4FT acoustic tile, suspended, 26FT(L)  
x 33FT(W)
- E. Remove, replace, 2ea Light, fluorescent, troffer, 4FT long x 2FT wide

**(Main Bldg., Floor 2, Laboratory R120)**

- A. Scrape, paint, 153SF Wall, ¼ IN plaster on concrete, 17 FT wide x 9 FT high
- B. Remove, replace, 5ea Ceiling, 2FT x 4FT acoustic tile, suspended
- C. Remove, replace, 4ea Light, fluorescent, Troffer, acrylic lens cover only 2FT x 4FT

**(Main Bldg., Floor 2, Laboratory R122)**

- A. Re-install, caulk, 1ea Window, aluminium-framed, 6 FT long x 4 FT wide
- B. Remove, replace, 60 SF Window, vertical blind, 3.5 IN blades, 10FT(L) x 6FT(W)
- C. Remove, replace, Window, aluminium frames, perimeter caulk only, 140 FT long
- D. Remove, replace, 231SF Floor linoleum, 11 FT long x 21 FT wide
- E. Remove, replace, Base molding, vinyl, 4 IN, 61 FT long

**(Main Bldg., Floor 2, Laboratory R133)**

- A. Remove, replace, 28SF Ceiling, 2FTx2FT acoustic tile, suspended, 7FT(L) x 4FT(W)
- B. Remove, replace, 28SF Floor linoleum, 7 FT long x 4 FT wide
- C. Remove, replace, Base molding, vinyl, 4 IN, 13 FT long

**(Main Bldg., Floor 2, Laboratory R143)**

- A. Remove, replace, Window, aluminium frames, perimeter caulk only, 126 FT long
- B. Remove, replace, 2ea Light, fluorescent, Troffer, 2FT long x 4FT wide
- C. Remove, replace, 187SF Floor linoleum, 17 FT long x 11 FT wide
- D. Remove, replace, Base molding, vinyl, 4IN, 52FT long

**(Main Bldg., Floor 2, Laboratory R144)**

- A. Remove, replace, Window, aluminium frames, perimeter caulk only, 96 FT long
- B. Remove, replace, 165SF Floor, linoleum, commercial-grade, 15FT(L) x 11FT(W)
- C. Remove, replace, Base molding, vinyl, 4 IN, 38 FT long
- D. Remove, replace, paint, 165SF Ceiling drywall, 11 FT long x 15 FT wide
- E. Repair spalls, paint, 90SF Wall, ¼ IN plaster on concrete, 10FT long x 9FT high
- F. Paint, 135 SF of Wall, drywall, 15 FT long x 9 FT high

**(Main Bldg., Floor 2, Laboratory R146)**

- A. Remove, replace, paint, 8SF Wall, drywall, 1 FT long x 8 FT wide
- B. Paint, 224SF Ceiling, drywall, 14 FT long x 16 FT wide
- C. Paint, 232SF Wall, ¼ IN plaster on concrete, 29 FT wide x 8 FT high

**(Main Bldg., Floor 2, Laboratory R147)**

- A. Repair spalls, paint, 18SF Wall, ¼ IN plaster on concrete, 9 FT wide x 2 FT high
- B. Remove, replace, 90SF Ceiling, 2FT x 2FT acoustic tile, suspended w/grid, 10FT long x 9 FT
- C. Paint, 99 SF of Wall, ¼ IN thick plaster on concrete, 11 FT wide x 9 FT high

**(Main Bldg., Floor 2, Laboratory R150)**

- A. Remove, replace, 165SF Ceiling, 2FTx4FT acoustic tile, suspended, 15FT(L) x 11 FT(W)
- B. Remove, replace, 1ea Light, fluorescent, Troffer, 2FT long x 4FT wide

**(Main Bldg., Floor 2, Laboratory R151)**

- A. Remove, replace, 220SF of Ceiling, 2FT x 4FT acoustic tile, suspended, 22FT long x 10 FT wide

- B. Remove, replace, 90SF Ceiling, 2FT x 4FT acoustic tile, suspended, grid only, 10FT long x 9FT wide
- C. Scrape, paint, 216SF Wall, ¼ IN plaster on concrete, 24 FT wide x 9 FT high
- D. Remove, replace, Window, aluminium frames, perimeter caulk only, 112 FT long

**(Main Bldg., Floor 2, Laboratory R159)**

- A. Remove, replace, 209SF Ceiling, 2FTx4FT acoustic tile, suspended 19FT(L) x 11FT(W)
- B. Remove, replace, 84SF Ceiling, 2FT x 4FT acoustic tile, suspended, grid only, 12FT long x 7FT wide
- C. Remove, replace, 4ea Light, fluorescent, Troffer, acrylic lens cover only, 2FT(L) x 4FT(W)
- C. Paint, 99 SF Wall, concrete, 11 FT wide x 9 FT high

**(Main Bldg., Floor 2, Laboratory R161)**

- A. Remove, replace, 198 SF Ceiling, 2FT x 4FT acoustic tile, suspended, 11FT long x 18FT wide
- B. Remove, replace, 4ea Light, fluorescent, Troffer, acrylic lens cover only, 2FT long x 4FT wide
- C. Paint, 216 SF Wall, ¼ IN plaster on concrete, 24 FT wide x 9 FT high
- D. Patch cracks, paint, 9SF Wall, concrete 9 FT long x 1 FT wide

**(Main Bldg., Floor 2, Laboratory R162)**

- A. Remove, replace, 225SF Floor, linoleum, 15 FT long x 15 FT wide

**(Main Bldg., Floor 2, Laboratory R167)**

- A. Remove, replace, 336SF Ceiling, 2FT x 4FT acoustic tile, suspended, 28FT x 12 FT
- B. Remove, replace, 112SF Ceiling, 2FTx4FT acoustic tile, grid only, 28FT x 4FT wide
- C. Remove, replace, 336SF Floor linoleum, 28FT long x 12 FT wide
- D. Remove, replace, Base molding, vinyl, 4 IN, 65 FT long

**(Main Bldg., Floor 2, Laboratory R168)**

- A. Remove, replace, 108SF Ceiling, 2FT x 4FT acoustic tile, suspended, 12FT x 9 FT
- B. Remove, replace, 36SF Ceiling, 2FT x 4T acoustic tile, grid only, 9FT x 4FT
- C. Remove, replace, 108SF Floor linoleum, 12 FT long x 9 FT wide
- D. Remove, replace, Base molding, vinyl, 4 IN, 39 FT long
- E. Remove, replace, paint, 1ea Door, wood, w/24IN x 3 IN vision lite, 3FT x 7FT

**(Main Bldg., Floor 2, Laboratory R17)**

- A. Repair spalls, paint, 32SF Wall, ¼ IN plaster on concrete, 8 FT long x 4 FT wide

- B. Scrape, paint, 240SF Wall, ¼ IN plaster on concrete, 30 FT wide x 8 FT high
- C. Remove, replace, 216SF Floor linoleum, 18 FT long x 12 FT wide
- D. Remove, replace, Base molding, vinyl, 4 IN, 57 FT long
- E. Remove, replace, 5ea Ceiling, 2FT x 4FT acoustic tile, suspended (40SF)

**(Main Bldg., Floor 2, Laboratory R173)**

- A. Remove, replace, 144 SF Floor linoleum, 8 FT long x 18 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 46 FT long

**(Main Bldg., Floor 2, Laboratory R174)**

- A. Remove, replace, 324SF Ceiling, 2FT x 4FT acoustic tile, suspended, 18FT x 18FT
- B. Remove, replace, 1ea Light, fluorescent, Troffer, acrylic lens cover only, 2FT x 4FT
- C. Remove, replace, 324SF Floor linoleum, 36 FT long x 9 FT wide
- D. Remove, replace, Base molding, vinyl, 4 IN, 87 FT long

**(Main Bldg., Floor 2, Laboratory R175)**

- A. Remove, replace, 348SF Ceiling, 2FT x 4FT acoustic tile, suspended, 12FT x 29FT
- B. Remove, replace, 377SF Floor linoleum, 29 FT long x 13 FT wide
- C. Remove, replace, Base molding, vinyl, 4 IN, 128 FT long
- D. Remove, replace, paint, 8SF Wall, drywall, 2 FT wide x 4 FT high

**(Main Bldg., Floor 2, Laboratory R176)**

- A. Remove, replace, 48SF Ceiling, 2FT x 4FT acoustic tile, suspended, grid only, 12FT x 4FT
- B. Remove, replace, 2ea Light, fluorescent, Troffer, 4FT long x 2FT wide
- C. Remove, replace, 16ea Ceiling, 2FT x 4FT acoustic tile, suspended, 2FT x 4FT

**(Main Bldg., Floor 2, Laboratory R181)**

- A. Paint, 270SF Ceiling, drywall, 27FT long x 10FT wide
- B. Patch, 4 SF of Ceiling, drywall, 4 FT long x 1 FT wide
- C. Paint, 99 SF of Wall, ¼ IN thick plaster on concrete, painted, 11 FT wide x 9 FT high
- D. Remove, replace, 270SF Floor linoleum, 27 FT long x 10 FT wide
- E. Remove, replace, Base molding, vinyl, 4 IN, 68 FT long

**(Main Bldg., Floor 2, Laboratory R386)**

- A. Remove, replace, 165SF Ceiling, 2FT x 4FT acoustic tile, suspended w/grid, 15FT x 11FT wide
- B. Paint, 180SF Wall, ¼ IN plaster on concrete, 18 FT long x 10 FT wide
- C. Remove, replace, 1ea Fixed Lab. Equipment, Metal Fume Hood,
- D. Remove, replace, 646SF Floor linoleum, 19 FT long x 34 FT wide

- E. Remove, replace, Base molding, vinyl, 4 IN, 99 FT long
- F. Remove, replace, 480SF Ceiling, 2FT x 4FT acoustic tile, suspended, 48FT x 10FT

**(Main Bldg., Floor 2, Laboratory R499)**

- A. Remove, replace, 132 SF of Floor linoleum, 11 FT long x 12 FT wide
- B. Remove, replace, Base molding, vinyl, 4 IN, 47 FT long

**(Main Bldg., Floor 2, Laboratory R541)**

- A. Scrape, repair spalls, paint, 99 SF Wall, ¼ IN plaster on concrete, 11FT long x 9FT
- B. Remove, replace, 187 SF Floor linoleum, 17 FT long x 11 FT wide
- C. Remove, replace, Base molding, vinyl, 4 IN, 53 FT long

**(Main Bldg., Floor 2, Office)**

- A. Paint, 360 SF Wall, ¼ IN plaster on concrete, 40 FT wide x 9 FT high
- B. Remove, replace, 363 SF of Ceiling, 2 FT x 4 FT acoustic tile, suspended w/grid

**(Main Bldg., Floor 2, Office R119)**

- A. Remove, replace, 130 SF Ceiling, 2 FT x 4 FT acoustic tile, suspended, 10FT x 13FT,
- B. Remove, replace, 1ea Light, fluorescent, Troffer, 2FT long x 4FT wide
- C. Remove, replace, Window, aluminium frames, perimeter caulk only, 184 FT long
- D. Patch, repair spalls, paint, 8SF Wall, ¼ IN plaster on concrete, 1 FT long x 8 FT wide

**(Main Bldg., Floor 2, Office R135)**

- A. Remove, replace, Window, aluminium frames, caulk only, 58 FT long

**(Main Bldg., Floor 2, Office R138)**

- A. Remove, replace, 1ea Light, fluorescent, Troffer, acrylic lens cover only

**(Main Bldg., Floor 2, Office R141)**

- A. Remove, replace, Window, aluminium frames, caulk, 62 FT long

**(Main Bldg., Floor 2, Office R215)**

- A. Remove, replace, 48 SF of Ceiling, 2 FT x 4 FT acoustic tile, suspended, 8FT x 6 FT



**(Main Bldg., Floor 2, Office R223)**

- A. Remove, replace, Window, aluminium frames, caulk only, 84 FT long
- B. Remove, replace, paint, 12 SF Wall, ¼ IN plaster on concrete, 6 FT long x 2 FT wide
- C. Paint, 44 SF of Wall, ¼ IN thick plaster on concrete, 11 FT wide x 4 FT high

**(Main Bldg., Floor 2, Office R224)**

- A. Patch, paint, 1 SF Wall, ¼ IN plaster on concrete, 1 FT long x 1 FT wide
- B. Paint, 56 SF of Wall, ¼ IN plaster on concrete, 14 FT long x 4 FT wide

**(Main Bldg., Floor 2, Office R242)**

- A. Repair spalls, paint, 9SF Wall, ¼ IN plaster on concrete, 1 FT wide x 9 FT high

**(Main Bldg., Floor 2, Office R544)**

- A. Remove, replace, 1ea Light, fluorescent, Troffer, 4 FT long x 2 FT wide
- B. Remove, replace, 6ea Light, fluorescent, Troffer, acrylic lens only, 4 FT long x 2 FT
- C. Remove, replace, 1ea Light, fluorescent, Troffer, 2 FT long x 2 FT wide
- D. Remove, replace, 2ea HVAC return grill, ceiling, aluminium, 16IN x 16IN, 2FT x 2FT

**(Main Bldg., Floor 2, Office R544, 545,546)**

- A. Remove, replace, 50ea Ceiling, 2FTx2FT acoustic tile, suspended, tegular, 2FT x 2FT

**(Main Bldg., Floor 2, Presidential Conference)**

- A. Remove, replace, Window, aluminium frames, caulk only, 172 FT long
- B. Patch, paint, 8SF Wall, ¼ IN plaster on concrete, 4FT long x 2FT wide
- C. Paint, 96SF Wall, ¼ IN plaster on concrete, 24 FT long x 4 FT wide

**(Main Bldg., Floor 2, Presidential Lobby)**

- A. Remove, replace, 632 SF of Floor, VCT, 12x12 IN, 79 FT long x 8 FT wide
- B. Remove, replace, 385SF Ceiling, 2FTx2FT acoustic tile, suspended, 77FT x 5 FT
- C. Remove, replace, 90SF Ceiling, 2FT x 2FT acoustic tile, suspended, grid, 18FT x 5FT
- D. Paint, 40SF Ceiling, drywall, repair, 20 FT long x 2 FT wide
- E. Paint, 336 SF of Ceiling, drywall, paint, 24 FT long x 14 FT wide
- F. Paint, 560 SF of Wall, ¼ IN thick plaster on concrete, 56 FT wide x 10 FT high

**(Main Bldg., Floor 2, Server Room)**

- A. Remove, replace, 10ea Ceiling, 2FTx2FT acoustic tile, suspended, tegular, 2FT x 2FT
- B. Prep, stain, urethane, Base molding, wood, 2 5/8 IN x 1/2 IN, 10FT long

**(Main Bldg., Floor 2, Stairway)**

A. Paint, 690 SF of Wall, ¼ IN plaster on concrete, 23 FT wide x 30 FT high

**(Main Bldg., Floor 2, Stairway Library)**

A. Patch, paint, 24SF Ceiling, drywall, 8 FT long x 3 FT wide

B. Paint, 100SF Ceiling, drywall, 25 FT long x 4 FT wide

**(Main Bldg., Floor 2, Storage Room R121)**

A. Remove, replace, 49 SF of Floor, VCT, 12x12 IN, 7 FT long x 7 FT wide

B. Remove, replace, Base molding, vinyl, 4 IN, 25 FT long

C. Remove, replace, 1ea Light, fluorescent, Troffer, acrylic lens covers only, 2FT x 4FT

**(Main Bldg., Floor 2, Study Room)**

A. Remove, replace, 4eaLight, fluorescent, Troffer, acrylic lens only, 4FT x 2FT

**(Main Bldg., Roof)**

A. Remove, replace, 18,462SF Roof, BUR asphaltic membrane, 3-ply, with rigid insulation and silver oxide coating, 181 FT long x 102 FT wide

B. Remove, replace, 1,704 SF Roof, flashing, parapet wall perimeter, 568 FT x 3 FT

C. Replace covers, 1ea Air Conditioning, 15-Ton package unit

D. Remove, replace, Building Exterior, 1 each of Air Conditioning, 15-Ton package unit

E. Remove, replace, 3ea Air Extractor Grille, 24 IN x 36 IN, Stairs Area

F. Remove, replace, 10,318 SF of Roof, PVC roofing membrane, 2-ply, 45-mil, polyethylene thermoplastic elastomeric, hot-air seam welded with field-fasteners, 67 FT long x 154 FT wide

G. Replace, 1 each of Air Conditioning, 15-Ton package unit, covers

H. Remove, replace, Bird spike strips, perching deterrants, 6 IN H, 154 FT long

I. Remove, replace, 2 each of Acrylic Skylight Domes, 3 FT W x 8 FT L x 1 FT H

**SCOPE NOTES**

1) DDD line items with varying % of work completed are estimated as 0% completed

2) Where a DDD work item is 100% completed & absent supporting documentation, per CRC, the work is estimated. All such cases total \$21,248.57 and < 10% of the total DI cost of \$3,402,217.17. See light purple highlighted cells in “Notes” column & column AF of the “DI#305240 Cost Estimate (WTBC) tab of the CEF.

3) Work Completed costs (by Contract) that have supporting documentation are validated (see “DMG Inventory for Validation 1” & “Validation-1” tabs of the CEF). Where any such cost fails validation, the RS Means estimated unit price is used instead (See Notes columns).

4) See DI#305240-DR4339PR-CEF-10-8-20.xlsx" "Notes" column for work items changes, and work items for asbestos abatement.

5) All borrow or fill material must come from pre-existing stockpiles, material reclaimed from maintained roadside ditches (provided the designed width or depth of the ditch is not increased), or commercially procured material from a source existing prior to the event. For any FEMA-funded project requiring the use of a non-commercial source or a commercial source that was not permitted to operate prior to the event (e.g. a new pit, agricultural fields, road ROWs, etc.) in whole or in part, regardless of cost, the Applicant must notify FEMA and the Recipient prior to extracting material. FEMA must review the source for compliance with all applicable federal environmental planning and historic preservation laws and executive orders prior to a subrecipient or their contractor commencing borrow extraction. Consultation and regulatory permitting may be required. Non-compliance with this requirement may jeopardize receipt of federal funding. Documentation of borrow sources utilized is required at closeout.

### **PROJECT NOTES**

1. All site estimates for work to be completed were generated using RS means Software Data/Year 2020 Quarter 3 – PUERTO RICO / URBAN (PRU) and Future Price Factors for Zone 1-Urban. See DI# 305240 Cost Estimate (WTBC) tab in document labelled *107355-DR4339PR-CEF-DI#305240-10-7-20.xlsx*. CEF cost estimate in GM may vary from CEF cost estimate worksheet due to rounding. The worksheet cannot be adjusted to correct the difference.

2. GPS coordinates have been checked for accuracy.

3. For Maintenance Records please see documents labelled: "Maintenance Record.pdf" and "Maintenance Employee List and Job Descriptions.pdf".

4. All procurement documents attached have been reviewed and will be in accordance with state and federal requirements. See attached documents labelled: *DR4339PR-UPR Equipment, Materials & Purchase Policy.pdf*.

5. PUBLIC ASSISTANCE ALTERNATIVE PROCEDURES DR-4339: This Project/PW/Project is a PA Alternative Procedures Project and funding is capped based on the fixed-cost estimate agreements for each project. The fixed-cost estimate agreements for each project can be found as attachments in GM/EMMIE. In accordance with the Public Assistance Alternative Procedures (Section 428) Guide for Permanent Work, FEMA-4339-DR-PR, funding can be shared across all of a Subrecipient's PA Alternative Procedures projects. The cumulative amount of all fixed cost estimates prepared for one Subrecipient represents a total consolidated subaward (total amount for use across all of a Subrecipient's damaged facilities). A Subrecipient may have one GM Project/PW/Project or multiple GM Projects)/PW/Projects. If a Subrecipient has multiple GM Projects/PW/Projects, once the work has been completed on an individual GM Project/PW/Project or when a Subrecipient determines that there will be a cost underrun for an individual GM Project/PW/Project, a Subrecipient may request to move funding from one GM Project/PW/Project to another.

6. This project is a PA Alternative Procedures project, involves a Critical Service, Universidad Central Del Caribe, Inc., in Bayamón, and the disaster damage impacts the function of educational facility. For each site (as defined in the BBA Policy) in this project where disaster damage meets the large project threshold of \$123,100, the Bipartisan Budget Act (BBA) applies.

7. Bipartisan Budget Act (BBA): As authorized by the BBA additional flexibilities were applied to this Project/PW as authorized and detailed within the scope of work. If the Subrecipient wishes to use these funds toward an Alternate Project, the Alternate Project must still provide a BBA-eligible critical service and must be constructed to the approved industry standard(s). FEMA will evaluate the proposed use for reasonableness. If funds not used toward a BBA eligible project, FEMA will have to re-scope the project taking out all work authorized under BBA and the estimate will be adjusted based on the new SOW.

8. This project meets the requirements of (A) Applicability, (B) Eligible Industry Standards and (C) Cost Eligibility Work and Cost defined in Section 20601 of the 2018 Bipartisan Budget Act (BBA). See Implementing Section 20601 of the 2018 BBA through PA, FEMA Recovery Policy FP-104-009-5, V.2, 9/11/2019 and FEMA Regional II Memo dated on 30/10/2019.

9. For work to be completed, the applicant is required to obtain any necessary Federal, State, and Local permits (including environmental), prior to the start of construction.

10. For work to be completed, when disposing of debris including, but not limited to fencing, retention walls, concrete, asphalt, AC units, light poles, demolition, new construction, among other activities the following project documents should be provided: a. Staging area (coordinates); b. Type of material; c. Quantity by type; d. Final Disposal site (coordinates); e. the permit for the Final Disposal site.

### **406 HMP Scope-Project # 107355-DI #305240**

Applicant: UNIVERSIDAD CENTRAL DEL CARIBE, INC. (021-UNUGB-00)

Location: Urbanization Santa Juanita, Ave. Laurel, Santa Juanita, Bayamon, PR

### **Wind Retrofit HMP**

#### **(I) Hazard Mitigation Proposal (HMP) Scope of Work**

This is a two-story, plus basement, building constructed in 1988 using a steel-reinforced, poured concrete foundation and poured concrete sheer walls with a footprint of 29,230 SF. The structure is located in an urban area of Bayamon, PR. To prevent or reduce wind and wind-driven debris damages in future similar events, the following mitigation measures have been proposed:

**A. Roof Mitigation:**

PA has covered 28,780 SF of the 29,230 SF (98%) roof to replace the waterproofing membrane back to its pre-disaster condition, along with 1,704 SF of damaged roof flashing; 648 SF of roof flashing (100% completed); and 426 SF of cap flashing (100% completed).

A.1 Remove the remaining 450 SF of roofing membrane.

A.2 Replace 18,462 SF of BUR asphaltic membrane, 3-ply; and 10,318 SF of PVC roofing membrane, 2-ply with SBS Modified Bitumen.

A.3 Install 29,230 SF of SBS Modified Bitumen.

A.4 Install 29,230 SF of insulation or light weight cementitious fill sloped to facilitate drainage.

A.5 Install 2,718 SF (906 LF) of flashing, around roof perimeter to prevent membrane uplift. (906 FT L x 3 FT H parapet = 2,718 SF)

A.6 Remove 192 SF of 840 SF - flashing around roof perimeter (32 LF x 6 FT parapet "boxes"). **Note:** 648 SF of flashing 100% completed work; 840 SF - 648 SF = 192 SF).

A.7 Install 192 SF (32 LF x 6 FT H) of flashing, around roof "boxes" perimeter to prevent membrane uplift. (80 FT L x 6 FT H parapet = 840 SF - 648 SF of 100% completed work = 192 SF)

A.7 Install 1,046 LF of termination bar, around roof perimeter to prevent membrane uplift. (906 LF + 140 LF of 6 FT parapet "boxes" = 1,046 LF)

A.8 Install 478 LF of cap flashing to protect the corners of the roof and membrane (906 LF + 140 LF of 6 FT parapet "boxes"). **Note:** 426 SF of Roof, flashing, parapet wall cap, 568 FT long x 9 IN high is 100% work completed: 1,046 LF - 568 LF = 478 LF)

**B. Openings Mitigation:**

**Window Mitigation**

B.1 Remove and replace 164 of 164 EA - 5'6" H x 6'0" W of single hung window using windows, single hung impact resistant

B.2 Remove and replace 8 of 8 EA - 5'0" H x 9'1" W of single hung window using windows, single hung impact resistant

B.3 Remove and replace 46 of 46 EA- 5'6" H x 10'4" W of single hung and 23 EA picture (fixed) window using windows, impact resistant units

B.4 Remove and replace 23 of 23 EA- 5'6'' H x 10'4'' W of picture (fixed) window using windows, impact resistant units

B.5 Remove and replace 2 of 2 EA - 5'6'' H x 3'1'' W 6 EA of single hung using windows, single hung impact resistant

B.6 Remove and replace 6 of 6 EA - 3'0'' H x 8'4'' W of aluminium and glass jalousie window using windows, impact resistant units

B.7 Remove and replace 6 of 6 EA - 3'0'' H x 7'10'' of aluminium and glass jalousie window using windows, impact resistant units

B.8 Remove and replace 4 of 4 EA - 5'6'' H x 14'4'' W of single hung using windows, impact resistant units

B.9 Remove and replace 4 of 4 EA - 5'6'' H x 14'4'' W of picture (fixed) window using windows, impact resistant units

B.10 Remove and replace 1 of 1 EA - 2'5'' H x 5'0'' W louver / window using windows, louver, impact resistant

B.11 Remove and replace 4 of 4 EA- 15'' H x 30'' W louver / window using windows, louver, impact resistant

B.12 Remove and replace 1 of 1 EA - 15'' H x 20'' W louver / window using windows, louver, impact resistant

B.13 Remove and replace 1 of 1 EA - 12'' H x 12'' W damped grille using an impact resistant unit.

B.14 Remove and replace 2 of 2 EA - 1'0'' H x 3'0'' W x 8'0'' L skylight using an impact resistant unit. (**Note: PA cost has covered this mitigation action.**)

#### **Door Mitigation**

B.15 Remove and replace 2 of 2 EA – single door, hollow metal, 16 gauge, 7'0'' H x 3'6'' W with steel flush metal units.

B.16 Remove and replace 1 of 1 EA – double door, hollow metal, 16 gauge, 7'0'' H x 5'8'' W with steel flush metal units.

B.17 Remove and replace 2 of 2 EA – double door, hollow metal, 16 gauge, 7'0'' H x 5'0'' W with steel flush metal units.

B.18 Remove and replace 1 of 1 EA – double door, aluminium and glass, 8'0'' H x 5'0'' W with steel flush metal units.

B.19 Remove and replace 1 of 1 EA – double door, aluminium and glass, 6’11” H x 5’7 ½” W with steel flush metal units.

**C. Load Path Mitigation:**

**Anchoring Assembly for Roof mounted A/C Units**

C.1 Install 6 EA – 5 Ton A/C Anchoring System to prevent displacement by high-driven wind. (central unit)

C.2 Install 6 EA – 5 Ton A/C Anchoring System to prevent displacement by high-driven wind. (air handler units)

C.3 Install 2 EA – 7.5 Ton A/C Anchoring System to prevent displacement by high-driven wind. (air handler units)

C.4 Install 11 EA – 15 Ton A/C Anchoring System to prevent displacement by high-driven wind. (air handler units)

C.5 Install 4 EA – 20 Ton A/C Anchoring System to prevent displacement by high-driven wind. (air handler units)

C.6 Install 2 EA – 24 BTU A/C Anchoring System to prevent displacement by high-driven wind. (central unit, condenser)

C.7 Install 1 EA – 18 BTU A/C Anchoring System to prevent displacement by high-driven wind.

**Anchoring Assembly for Roof mounted Exhaust Units**

C.8 Install 18 EA – Exhaust units Anchoring System to prevent displacement by high-driven wind.

**Regular HMP**

**(I) Hazard Mitigation Proposal (HMP) Scope of Work**

**DI #305240-Main Building**

This is a two-story plus basement, structure constructed in 1988 using a steel-reinforced, poured concrete foundation and poured concrete shear walls with a footprint of 27,780 SF. The structure is located in an urban area of Bayamon, PR. To prevent or reduce damages in future similar events, the following mitigation measures have been proposed:

**Roof Mitigation:**

1. Replace 450 SF of metal roof panel, 26 gauge with metal roof panel, 24 gauge.
2. Add an average of 36 fasteners per square foot (or 100 SF) on metal panel roof to prevent future similar damage and improve wind resistant. 1,269 SF total (supplementary mitigation)

*Comply with Puerto Rico Building Code 2018 (PRBC 2018). Refer to Chapters 3 & 4, as applicable. Refer to <http://jp.pr.gov/Codigo-de-Construccion> for local codes.*

*This DI #3055240 / Main Building & Annex is included in a PA Alternative Procedures project, involves a Critical Service, and the disaster damage impacts the function of the facility. The cumulative disaster damage (as defined in the BBA Policy) within this project is anticipated to meet the large project threshold of \$123,100, and the Bipartisan Budget Act (BBA) applies. If, after estimated, the project does not meet the large project threshold, BBA elements will be removed.*



## Damage #305244-Main Building Annex

The Subrecipient has stated that hurricane winds damaged building exterior and windows. The damaged elements caused water intrusion which created damage to the ceiling, walls and floors. A site visit was conducted, and disaster related damages were agreed upon by FEMA, the Recipient and the Subrecipient.

### Building Data / Main Building Annex

1. Building Footprint – 1,838 SF
  2. Perimeter – 182 LF
  3. Number of Stories – 2
  4. Second Floor – 1,838 SF
  5. First Floor – 1,838 SF
  6. Total Area – 3,676 SF
  7. Floor to Floor Height – 9 FT
  8. Total Building Height – 19 FT
- **General Facility Information:**
    - **Facility Type:** Building
    - **Building Type:** College
    - **Facility:** Main Building Annex
    - **Facility Description:** UCC' s Main Building Annex was constructed using a steel-reinforced, poured-concrete mat foundation; steel-reinforced, poured-concrete, perimeter stem walls to 48 IN high; pre-engineered, galvanized steel Quonset hut structure; steel-framed, interior partition walls; painted drywall for finished wall and ceiling surfaces; carpeted flooring on 2nd floor; and 12-IN x 12-IN VCT floor tiles installed during the temporary facilities conversion over an existing ceramic tiled base floor on 1st floor; painted, residential-grade, exterior entrance doors with colonial muntin in half-lite vision glass; stained and urethane-finished, hollow-core, wooden interior passage doors; and 12-lite, aluminium, Jalousie venting windows.
    - **Year Built:** 2001
    - **Location Description:** Urb. Santa Juanita, Ave. Laurel, Bayamon, PR 00956
    - **GPS Latitude/Longitude:** 18.36610, -66.15430
    - **Number of Stories:** 2
  - **General Damage Information:**
    - **Date Damaged:** 9/20/2017
    - **Cause of Damage:** Hurricane-force winds, wind-driven rain, and wind-driven debris caused directly by Hurricane Maria.
  - **Building Damage:**

## **305244 Main Building Annex**

### **WORK COMPLETED**

#### **(Main Bldg. Annex, Floor 1, North Entrance)**

A. Replace, Ext., 2ea Canopy, metal-framed, sloped, painted, fabric covering, 9 FT long x 5 FT wide x 2.5 FT high, (See Scope Note) 50% completed

### **WORK TO BE COMPLETED**

The applicant will utilize contract services to repair the Main Building Annex back to it's pre-disaster design function, capacity and within the existing footprint.

#### **(Main Bldg. Annex, Exterior, Entire Floor)**

A. Repair spalls, paint, 42SF Wall, ¼ IN plaster on concrete, 42 FT wide x 1 FT high

B. Scrape, paint, 1,116 SF Wall, ¼ IN plaster on concrete, 186 FT wide x 6 FT high

C. Remove, replace, Window, aluminium frames, caulk only, 310 FT long

#### **(Main Bldg. Annex, Floor 1, North Entrance)**

A. Replace, Ext., 2ea Canopy, metal-framed, sloped, painted, fabric covering, 9 FT long x 5 FT wide x 2.5 FT high, (See Scope Note) 50% completed

#### **(Main Bldg. Annex, Floor 2, Classroom R480)**

A. Remove, replace, paint, Int., 8SF Wall, drywall, 2 FT long x 4 FT wide

B. Remove, replace, paint, Int., 70SF Wall, drywall, 10 FT long x 7 FT wide

#### **(Main Bldg. Annex, Floor 2, Dining Room R580)**

A. Remove, replace, Base Molding, vinyl, 4 IN, 24 FT long

B. Remove, replace, 130 SF of Floor, carpet, 13 FT long x 10 FT wide

#### **(Main Bldg. Annex, Floor 2, Hallway North)**

A. Remove, replace, Int., 1ea Window, aluminium jalousie venting, 12-lite, clear glazing, 2 FT(W) x 3 FT high

#### **(Main Bldg. Annex, Floor 2, Office R483)**

A. Paint, 35 SF Ceiling, drywall, 7 FT long x 5 FT

B. Paint, 320 SF of Wall, drywall, 32 FT long x 10 FT wide

**(Main Bldg. Annex, Floor 2, Office R484)**

- A. Remove, replace, paint, 24 SF Wall, drywall, 6 FT wide x 4 FT high
- B. Scrape, paint, 240SF Wall, drywall, 10 FT long x 24 FT wide
- C. Prep, stain, Window, wooden casing trim, pine, 1/2 IN x 3 IN, 60 FT long
- D. Remove, replace, Window, aluminium frames, caulk only, 65 FT long
- E. Remove, replace, Base molding, vinyl, 4 IN, 49 FT long
- F. Remove, replace, 187 SF of Floor, carpet, 17 FT long x 11 FT wide

**(Main Bldg. Annex, Floor 2, Office R485)**

- A. Remove, replace, paint, 16 SF of Wall, drywall, 4 FT long x 4 FT wide
- B. Scrape, paint, 230 SF of Wall, drywall, painted, 10 FT long x 23 FT wide
- C. Remove, replace, Base molding, vinyl, 4 IN, 29 FT long

**SCOPE NOTE**

1) See “107355-DR4339PR-CEF-10-8-20.xlsx” and the “DMG Inv. For Validation 2&3” tabs for validation of completed cost for replacement canopies. The work on the DDD is listed as 50% completed and as such, the validated cost of \$8,600 is divided between Work Completed & Work to Be Completed.

**406 HMP Scope-Project # 107355-DI #305244**

Applicant: UNIVERSIDAD CENTRAL DEL CARIBE, INC. (021-UNUGB-00)  
Location: Urbanization Santa Juanita, Ave. Laurel, Santa Juanita, Bayamon, PR

**(I) Hazard Mitigation Proposal (HMP) Scope of Work**

**DI #305244-Main Building Annex**

This is a two-story pre-engineered, galvanized steel Quonset hut structure; steel-framed with a footprint of 1,838 SF and a height of 19 FT. The structure is located in an urban area of Bayamon, PR. To prevent or reduce damages in future similar events, the following mitigation measures have been proposed:

**Opening Mitigation:**

**Windows**

1. Install 180 SF of rolling shutters to protect 30 EA aluminium and glass jalousie window and prevent similar damage due to wind-driven rainwater intrusion through the openings.

## **Doors**

2. Install 84 SF of rolling shutters for 2 EA aluminium and glass double doors and prevent similar damage due to wind-driven rainwater intrusion through the openings.

## **Exterior Paint Mitigation**

3. Replace 1,116 SF of PA exterior paint first and second coat with waterproof sealer paint (first and second coat), to reduce moisture through masonry walls and preventing similar damages to the exterior paint and interior water damages. (supplementary mitigation)

*Comply with Puerto Rico Building Code 2018 (PRBC 2018). Refer to Chapters 3 & 4, as applicable. Refer to <http://jp.pr.gov/Codigo-de-Construccion> for local codes.*

*This DI #3055244 / Main Building Annex is included in a PA Alternative Procedures project, involves a Critical Service, and the disaster damage impacts the function of the facility. The cumulative disaster damage (as defined in the BBA Policy) within this project is anticipated to meet the large project threshold of \$123,100, and the Bipartisan Budget Act (BBA) applies. If, after estimated, the project does not meet the large project threshold, BBA elements will be removed.*

## Damage #305310-Site 1

- **General Facility Information:**
  - **Facility Type:** Parks, Cemeteries, and Recreational Facilities
  - **Facility:** Site Work
  - **Facility Description:** Chain Link Security Fencing, Engineered Earthen Embankments, Steel Guard Rails, Paved Asphalt Parking Lot, Concrete Sidewalks, Signage, Site Lighting, and Storm Drainage System.
  - **Approx. Year Built:** 1988
  - **Location Description:** Urbanization Santa Juanita, Ave. Laurel, Santa Juanita, Bayamon, PR
  - **GPS Latitude/Longitude:** 18.36519, -66.15281
- **General Damage Information:**
  - **Date Damaged:** 9/20/2017
  - **Cause of Damage:** Hurricane-force winds and wind-driven rain caused by Hurricane Maria.
- **Facility Damage:**

## 305310 Site 1

### WORK COMPLETED

A. Remove, replace, Fencing, Generator Shed Area, chain link, 9-gauge, 4 FT x 80 LF long

B. Remove, replace, Signage, 1 each Eastern Elevation of Property, main campus facility identification and welcome sign, aluminium, 2-section, 5 FT W x 6 FT H, 5 FT wide x 6FT high

### WORK TO BE COMPLETED

The applicant will utilize contract services to repair Site 1 back to it's pre-disaster design function, capacity and within the existing footprint.

#### (Site 1)

#### Fencing, Main Building, Addition, and Annex Area, West and North Elevations

A. Scrape, paint, guard rail, galvanized steel pipe, 1 1/2 IN dia., triple rail, 2,901 LF

#### Parking Lots

A. Clean out catch basin 1 ea Casa Salud Courtyard Area, storm drainage system

**Parking Lots Angled Faculty Parking Area, West Elevation of Main Building**

A. Restore, 8 CY of, engineered embankment, slope erosion, soil re-nourishment & repair, 95 FT long x 13 FT wide x 2 IN deep

**Parking Lots, Main Student Parking Lot Area, Southern Elevation of Property**

A. Remove, replace, 4,993 SF of 2in asphalt parking surface & 4 IN base

**Parking Lots, Main Student Parking Lot Area, Southern Elevation of Property**

A. 13 CY of engineered embankment, slope erosion, soil re-nourishment and repair, 90 FT long x 6 FT wide x 3 IN deep, erosion, caused by surface water flooding

**Generator Shed Area**

A. Remove, replace, 1ea, single luminaire, 110-Volt, 80-Watt, high-pressure sodium, & 25FT rewiring from pole-to-fixture only of 25-FT tapered, aluminium light pole

**Angled Faculty Parking Area, West Elevation of Main Building**

A. Remove, replace, 1 ea, single luminaire, 240/277-Volt, 400-Watt, metal halide bulbs, including pole-to-fixture rewiring mounted on existing 35 FT steel light pole

**Main Building Annex**

A. Remove, replace, 1ea facility identification sign, aluminium, 6 FT x 3 FT

**Angled Faculty Parking Area, West Elevation of Main Building**

A. Remove, replace, Signage, (1) one-way travel sign, aluminium, 12IN x 18IN, 1FT x 1.5 FT high

**Angled Faculty Parking Area, East Elevation of ICM Trailers**

A. Remove, replace, Signage, (1) facility identification sign, aluminium, 3 FT x 2 FT, 3FT wide x 2 FT high

**Entrance Area on East Elevation of Main Building**

A. Remove, replace, 1,520 SF concrete sidewalk, 4IN(T)x 10FT x 152 FT

B. Replace, sidewalk trim tiles, Terracotta clay, 4IN x 8IN, 115 LF long

**Casa Salud Courtyard Area**

A. Replace, Benches, 2ea, aggregate concrete bench, 48IN L x 18IN W x 3IN D

**406 HMP Scope-Project # 107355-DI #305310**

Applicant: UNIVERSIDAD CENTRAL DEL CARIBE, INC. (021-UNUGB-00)

Location: Urbanization Santa Juanita, Ave. Laurel, Santa Juanita, Bayamon, PR

**(I) Hazard Mitigation Proposal (HMP) Scope of Work**

**DI # 305310-Site 1**

This is a site compose of chain-link security fencing, engineered earthen embankments, steel guard rails, paved asphalt parking lot, concrete sidewalks, signage, site lighting, and storm drainage system. The site is located in an urban area of Bayamon, PR. To prevent or reduce damages in future similar events, the following mitigation measures have been proposed:

**Drain System Mitigation**

1. Excavate a perimeter of 3 FT with a depth of 6'' to 18'' around the drain cover.
2. Rough grade this area 3 FT x 3 FT (9 SF).
3. Place the geotextile in the prepared installation area.
4. Put and evenly spread the crushed stones around the drain cover (9 SF) to prevent soil from clogging the drainage system.

*DI #3055240 / Main Building & Annex is included in a PA Alternative Procedures project, involves a Critical Service, and the disaster damage impacts the function of the facility. The cumulative disaster damage (as defined in the BBA Policy) within this project is anticipated to meet the large project threshold of \$123,100, and the Bipartisan Budget Act (BBA) applies. If, after estimated, the project does not meet the large project threshold, BBA elements will be removed.*