

# HH-36DB - Electrical Power Resiliency, Utility and Building Improvements at the HHB



# HH-36DB Scope of Work

## Substation Replacement

- *Upgrade Dyckman Substation capacity from 225KVA to 750 KVA.*
- *In kind replacement of Kappock Substation, and installation of new HVAC unit for the electrical room.*
- *Install new fire suppression and alarm systems for Dyckman and Kappock Substations.*

## Second Floor Air Handler Unit Replacement

- *Install new Air Handler Unit into the modified Mechanical Room's available limited space.*

## Maintenance Garage Build Out

- *Complete unfinished work from HH-88B*

## Park Path

- *Resurface 1,500 LF of existing park path*



HH-36 DB schedule – Contract duration 36 months

**Design Build Contract Award – December 2021**

**Design Build Contract Completion – December 2024**

# HH-36 DB Lane Closure hours

**HHB North Bound Parkway – 7am to 3pm**

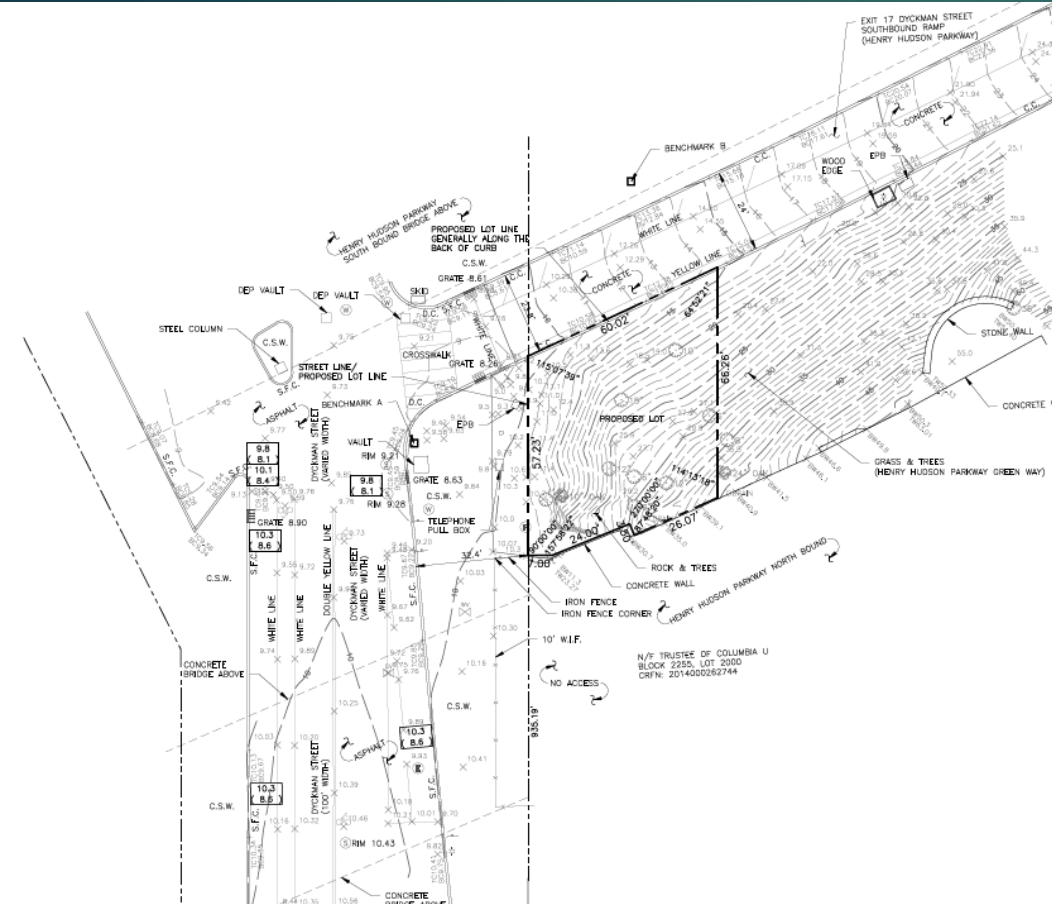
**HHB South Bound Parkway – 10am to 3pm**

# Existing Dyck. St. Substation within the North Abutment:

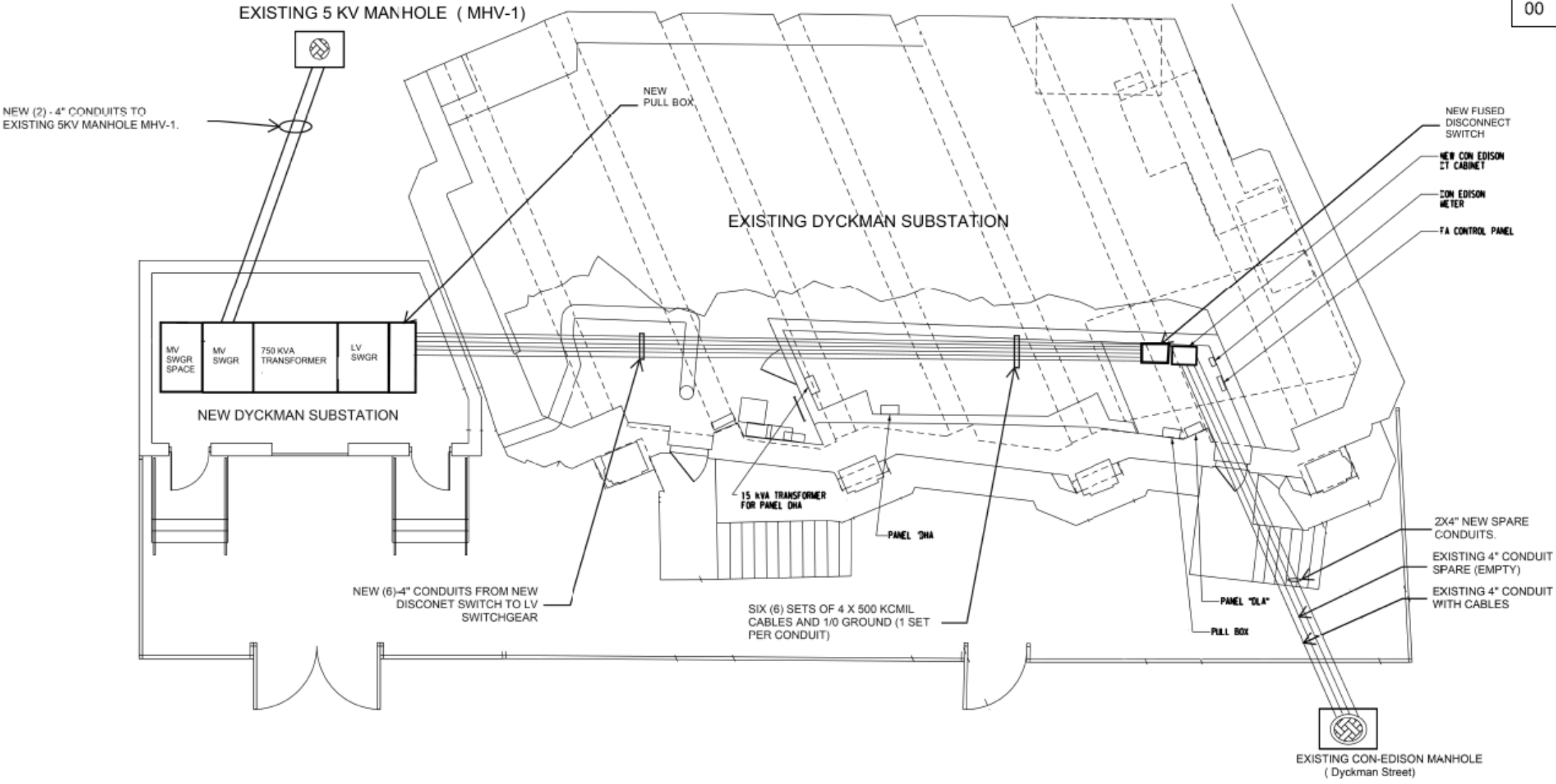


# New Dyck. St. Location:

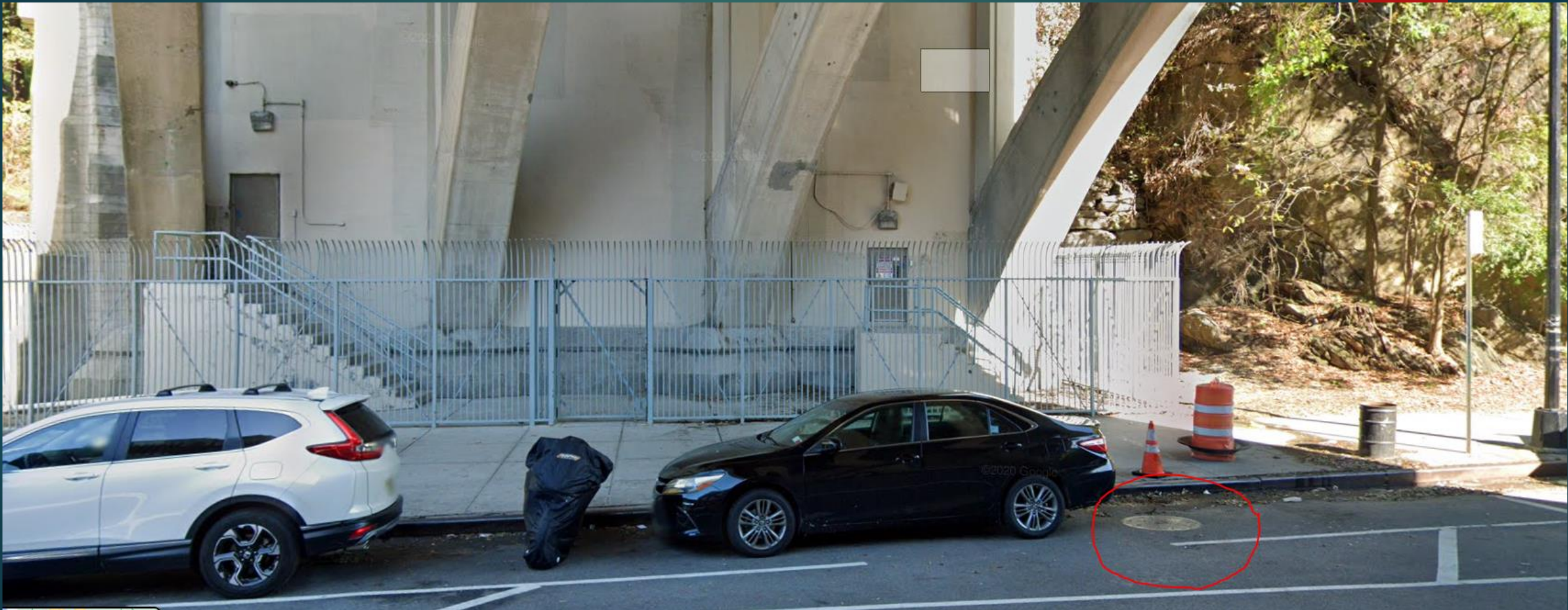
\* New substation enclosure to be constructed on the new parcel TBTA acquired from NYC DPR. Construction shall not impact the existing structure



**Dyckman Street Electrical Upgrade SOW: Build a new Substation Enclosure (minimum 25' -10" W X 15' L) and Upgrade Substation Capacity. Work include but not limited to coordination with Con Edison, identification of underground utilities, installation of underground feeders, manholes and duct banks, new heating ventilation and air conditioning system new fire alarm and detection system and demolition of the existing substation.**



# Location of the existing Con Ed Manhole at Dyckman Street

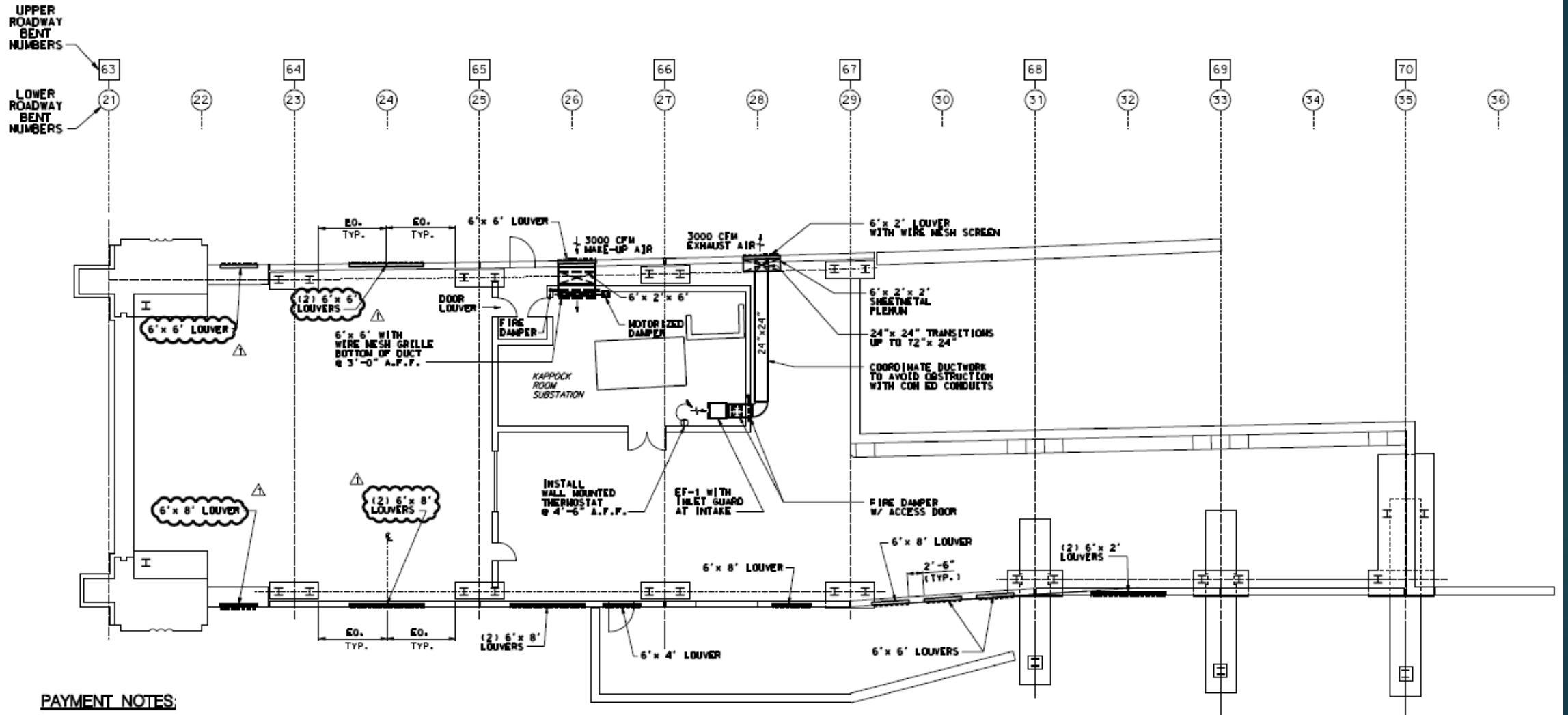




# Photos of existing substation within the abutment



# Kappock Electrical Upgrade SOW: Replace existing Substation transformer and all associated equipment, equipment pad, resurface concrete floor, mechanical and heating system and Fire detection and alarm system.



## PAYMENT NOTES:

- ALL WORK SHOWN ON THIS DRAWING FOR LOUVERS, DUCTWORK, EXHAUST FAN, & MECHANICAL CONTROL SHALL BE PAID FOR UNDER ITEM 15000.

NORTH APPROACH MECHANICAL PLAN

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

## NOTES:

- FOR EXACT LOCATION OF LOUVERS SEE SW-13 DRAWING.
- ALL LOUVERS SHALL HAVE WIRE MESH SCREENS. SEE DWG M-3 FOR DETAILS.

# Access to Kappock Substation



# Existing Kappock Substation photos



**Maintenance Garage HHB SOW- The maintenance Garage shell was completed under HH-88B project. The Garage and basement Interior shall be completed to comply with the latest NYS Building and NYS Energy Codes**



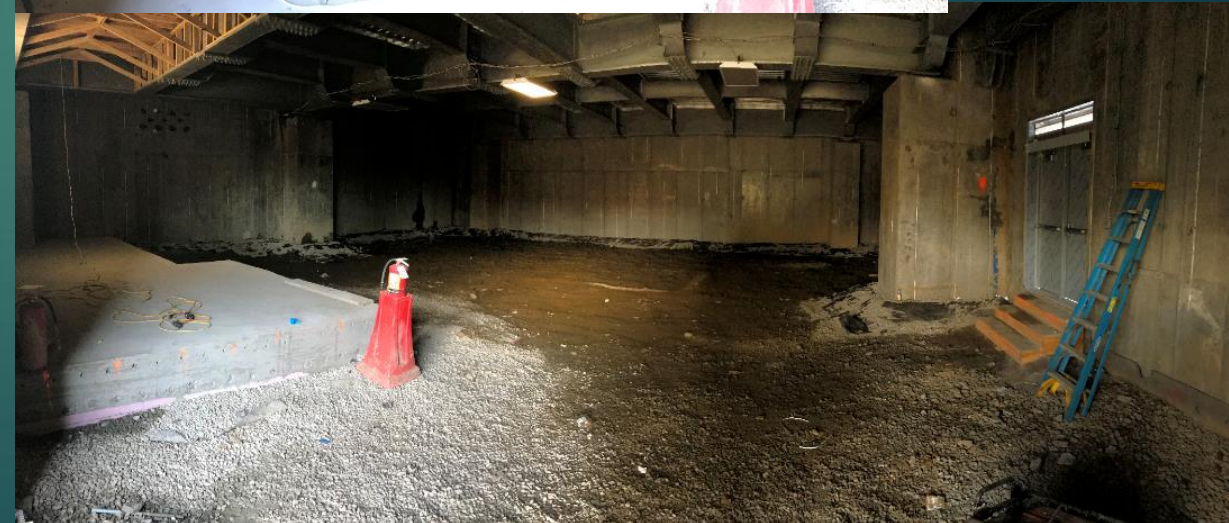
## Existing Garage Photos – First Floor - SOW includes but not limited to:

Slab on Grade, insulation, interior walls and doors, wall and floor finishing, lighting, electrical, mechanical, electric heating system, plumbing systems, fire suppression & alarm systems, security systems, interior drainage



# Existing Garage Photos – Basement – SOW includes but not limited to:

Slab on Grade, insulation, interior walls and doors, wall and floor finishing, lighting, electrical, mechanical, electric heating system, plumbing systems, fire suppression & alarm systems, security systems, interior drainage, paving and fence.

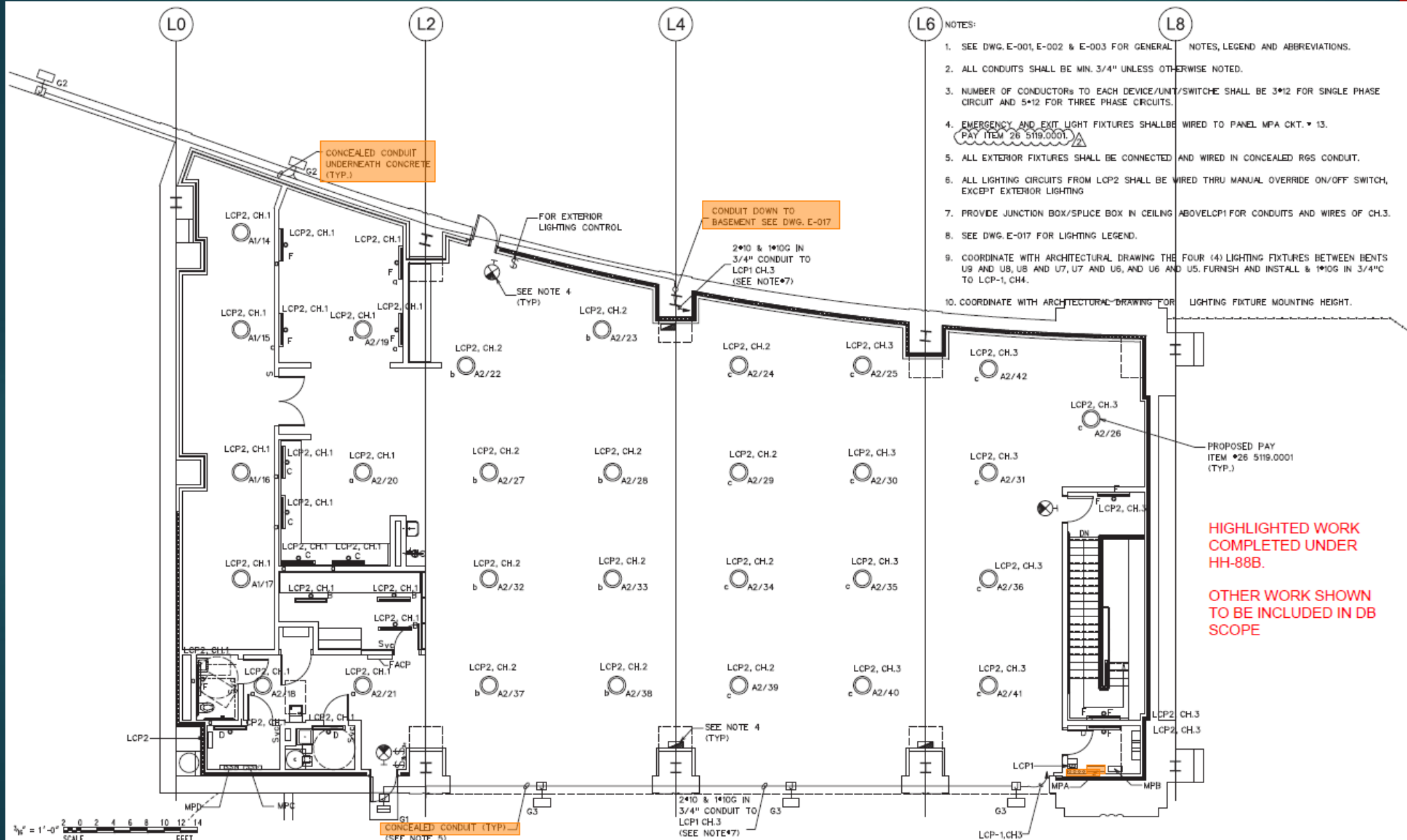




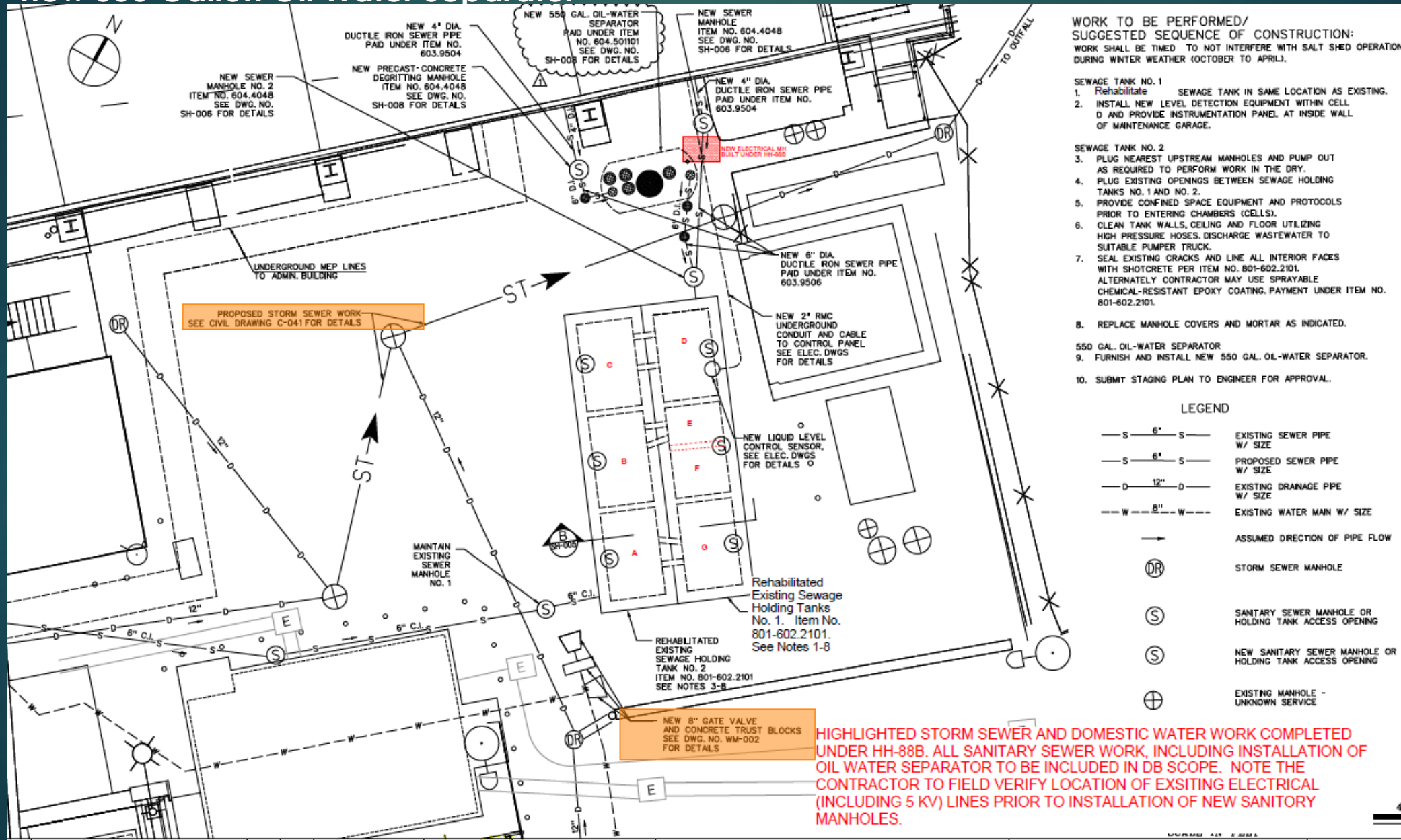




# Maintenance Garage First Floor Lighting Plan



# Work to be done in the parking Lot: SOW includes but not limited to: Clean & reline Sewage Holding Tanks, Installation of new sanitary manholes, Installation of new 550 Gallon Oil Water Separator



**WORK TO BE PERFORMED/ SUGGESTED SEQUENCE OF CONSTRUCTION:**  
 WORK SHALL BE TIMED TO NOT INTERFERE WITH SALT SHED OPERATION DURING WINTER WEATHER (OCTOBER TO APRIL).

- SEWAGE TANK NO. 1**
1. Rehabilitate SEWAGE TANK IN SAME LOCATION AS EXISTING.
  2. INSTALL NEW LEVEL DETECTION EQUIPMENT WITHIN CELL 0 AND PROVIDE INSTRUMENTATION PANEL AT INSIDE WALL OF MAINTENANCE GARAGE.
- SEWAGE TANK NO. 2**
3. PLUG NEAREST UPSTREAM MANHOLES AND PUMP OUT AS REQUIRED TO PERFORM WORK IN THE DRY.
  4. PLUG EXISTING OPENINGS BETWEEN SEWAGE HOLDING TANKS NO. 1 AND NO. 2.
  5. PROVIDE CONFINED SPACE EQUIPMENT AND PROTOCOLS PRIOR TO ENTERING CHAMBERS (CELLS).
  6. CLEAN TANK WALLS, CEILING AND FLOOR UTILIZING HIGH PRESSURE HOSES. DISCHARGE WASTEWATER TO SUITABLE PUMPER TRUCK.
  7. SEAL EXISTING CRACKS AND LINE ALL INTERIOR FACES WITH SHOTCRETE PER ITEM NO. 801-602.2101. ALTERNATELY CONTRACTOR MAY USE SPRAYABLE CHEMICAL-RESISTANT EPOXY COATING. PAYMENT UNDER ITEM NO. 801-602.2101.
  8. REPLACE MANHOLE COVERS AND MORTAR AS INDICATED.
- 550 GAL. OIL-WATER SEPARATOR**
9. FURNISH AND INSTALL NEW 550 GAL. OIL-WATER SEPARATOR.
  10. SUBMIT STAGING PLAN TO ENGINEER FOR APPROVAL.

**LEGEND**

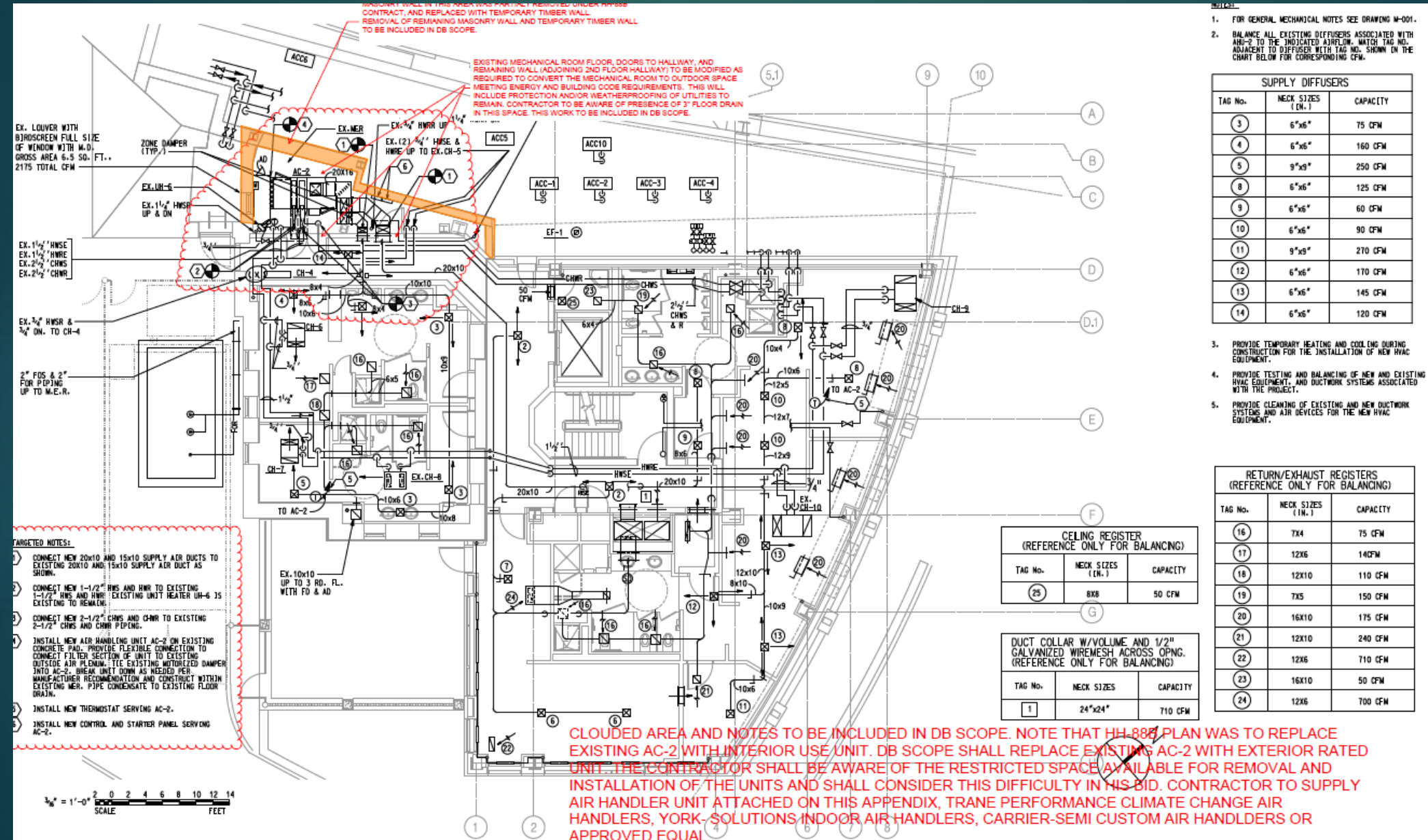
— S 6" S —	EXISTING SEWER PIPE W/ SIZE
- - S 6" S - -	PROPOSED SEWER PIPE W/ SIZE
— D 12" D —	EXISTING DRAINAGE PIPE W/ SIZE
- - W 8" W - -	EXISTING WATER MAIN W/ SIZE
→	ASSUMED DIRECTION OF PIPE FLOW
⊕	STORM SEWER MANHOLE
⊙	SANITARY SEWER MANHOLE OR HOLDING TANK ACCESS OPENING
⊙	NEW SANITARY SEWER MANHOLE OR HOLDING TANK ACCESS OPENING
⊕	EXISTING MANHOLE - UNKNOWN SERVICE

**HIGHLIGHTED STORM SEWER AND DOMESTIC WATER WORK COMPLETED UNDER HH-88B. ALL SANITARY SEWER WORK, INCLUDING INSTALLATION OF OIL WATER SEPARATOR TO BE INCLUDED IN DB SCOPE. NOTE THE CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING ELECTRICAL (INCLUDING 5 KV) LINES PRIOR TO INSTALLATION OF NEW SANITARY MANHOLES.**

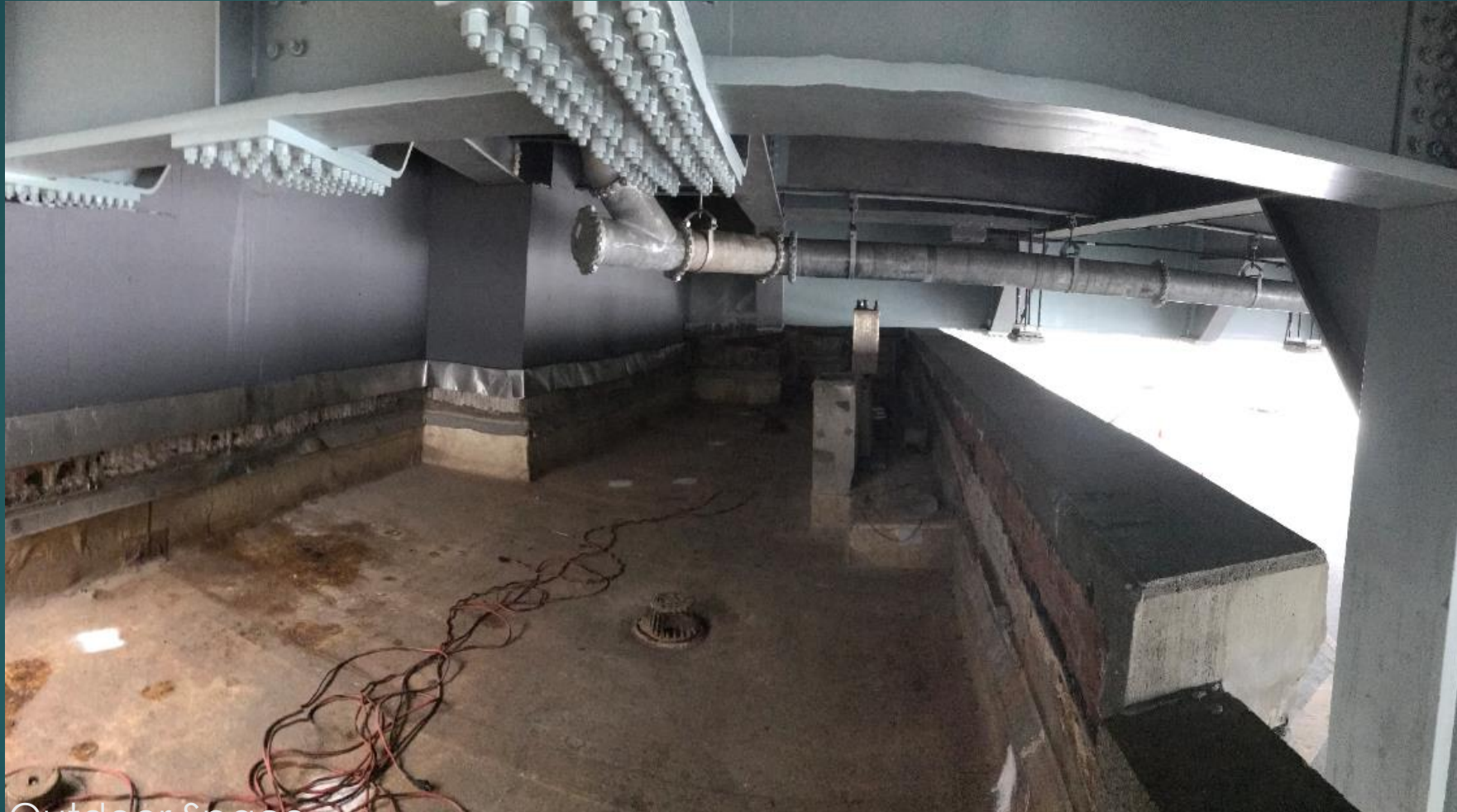
## Work to be done in the parking Lot – Existing Photo of the Parking Lot



# Second Floor Air Handler Unit SOW - Design, procure and install all equipment to replace the existing air handler unit. Restoration of the mechanical room to an outdoor space to meet energy conservation and building code.



**Second Floor Air Handler Unit – SOW includes but not limited to: removal of the existing unit, restoration of the building envelope, removal of the temporary wall, insulation of the existing wall, replacement of 2<sup>nd</sup> floor interior doors and installation of the new unit.**



Second Floor Outdoor Space

# Second Floor Air Handler Unit



Second Floor interior corridor



Existing Unit on the second floor





# Park Path Photos

