

ORLEANS STORM PROOFING PROJECTS

THE SEWERAGE AND WATER BOARD
OF NEW ORLEANS



US Army Corps of Engineers
BUILDING STRONG®





Sewerage and Water Board of New Orleans

Services Provided:

- Sewage Collection and Treatment
- Water Purification and Distribution
- Storm Drain Collection
- Power Generation



Sewerage and Water Board of New Orleans

Sewage Collection System Overview

- 1300 Miles of Gravity Sewers
- 100 Miles of Sewer Force Mains
- 83 Pumping Stations
- 2 Treatment Plants
- 244 MGD Capacity (Combined)



Sewerage and Water Board of New Orleans

Water System Overview

- 1600 Miles of Water Mains
- 5 Pumping Stations (Carrollton Water Plant)
- 2 Purifications Plants
- 270 MGD Capacity (Combined)



Sewerage and Water Board of New Orleans

Power Generation Overview

- 112 Miles of Electrical Feeders
- Power Produced - 39,421,440 KW-Hours



Sewerage and Water Board of New Orleans

Drainage System Overview

- 90 Miles of Covered Canals
- 82 Miles of Open, Lined/Unlined Canals
- 37 Pumping Stations
- Total Pumping Capacity ~ 53,500 cfs
- Responsible for the maintenance and repair of subsurface drain pipes greater than or equal to 36" in diameter



ORLEANS STORM PROOFING PROJECTS

- Fifteen (15) projects
- 100% funding provided by Corps
- Corps designs projects, awards construction contract and inspects construction work
- S&WB involved with the design process
- Goal is to harden facilities and maintain operational capabilities during extreme storm events

ORLEANS STORM PROOFING PROJECTS

List of Projects:

1. OSP-01: 15MW, 60 Hz Generator at the Carrollton Water Plant (CWP)
2. OSP-02: 60Hz Underground Feeder (CWP to DPS No. 1)
3. OSP-03: CWP Perimeter Water Protection around Power Plant, Frequency Bldg and new Generator Building
4. OSP-04: Storm Proofing CWP Power Plant Buildings, Old and New River Stations

ORLEANS STORM PROOFING PROJECTS

List of Projects:

5. OSP-05: Storm Proofing DPS 5 and 60 Hz Generator
6. OSP-06: Storm Proofing DPS 3, 6, & 20 and 60Hz Generator
7. OSP-12/13: Storm Proofing DPS 13 and 60Hz Generator
8. OSP-07: Storm Proofing DPS 7 and 60 Hz Generator

ORLEANS STORM PROOFING PROJECTS

List of Projects:

9. OSP-08: Storm Proofing DPS 1, 2, 4, 12, 19, and I-10
10. OSP- 09: Storm Proofing DPS 11, 14, & 16
11. OSP-10: 60Hz Generator at DPS 17
12. OSP-11: Storm Proofing DPS 10 and 60 Hz Generator

ORLEANS STORM PROOFING PROJECTS

List of Projects:

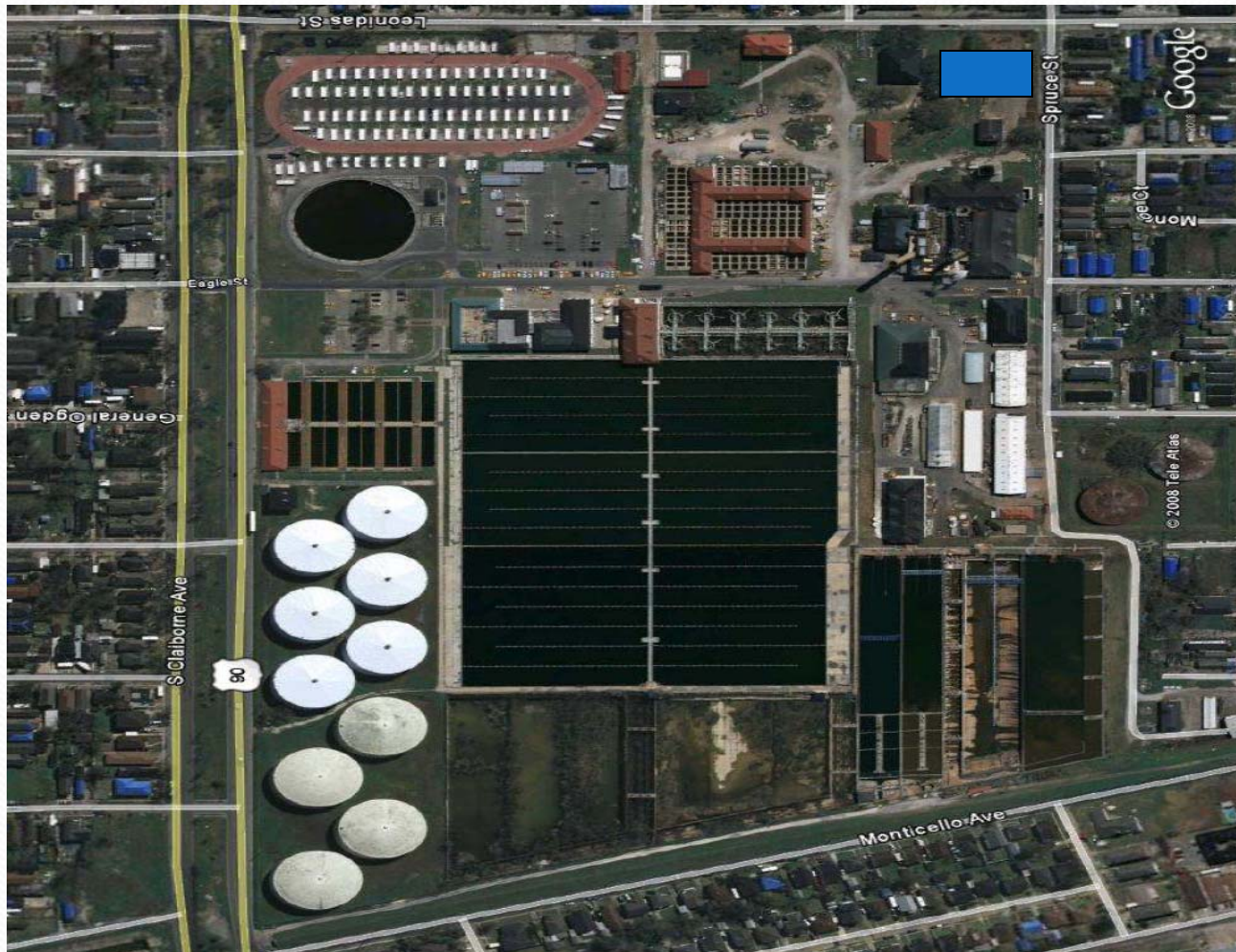
- 13. OSP-14: Storm Proofing DPS 17 (Station “D”)
- 14. OSP-15: Storm Proofing Carrollton Frequency Changer
- 15. OSP-16: Storm Proofing DPS 15, 18, Grant, Monticello and Pritchard



RELATED PROJECT TO OSP

- Entergy Gas is designing and constructing a 200psi natural gas line pipeline for the proposed OSP-01 project.
- New gas line needed for the operation of the new gas turbine generator

OSP-01 15MW GENERATOR BUILDING PROJECT



LOCATION
OF WORK





OSP-01 15MW GENERATOR BUILDING PROJECT

- Contractor: DV & Associates, LLC
- Estimated Completion Date: August 2011
- Estimated Construction Bid: \$31.6 Million



OSP-01 15MW GENERATOR BUILDING PROJECT

- Construction of a 15MW generator building
- Construction of a diesel fuel containment facility
- Modification to the existing gas compressor building



OSP-01 15MW GENERATOR BUILDING PROJECT

Major Construction Activities:

- Installation of Prestressed Concrete Piles
- Construction of Concrete Generator Building
- Installation of Gas Turbine Generator

OSP-01 15MW GENERATOR BUILDING PROJECT

Installation of Prestressed Concrete Piles:

- Contractor began initial pile driving phase which consists of driving the test piles
- Compression tests will be performed on test piles to determine the adequate length of pile
- Second phase of pile driving activities is scheduled to begin in May 2010 and end in August 2010
- Work Schedule – 7am to 5pm M-F
- Depending upon schedule performance, work schedule may be 7am to 7pm M-Sat

OSP-01 15MW GENERATOR BUILDING PROJECT



OSP-01 15MW GENERATOR BUILDING PROJECT

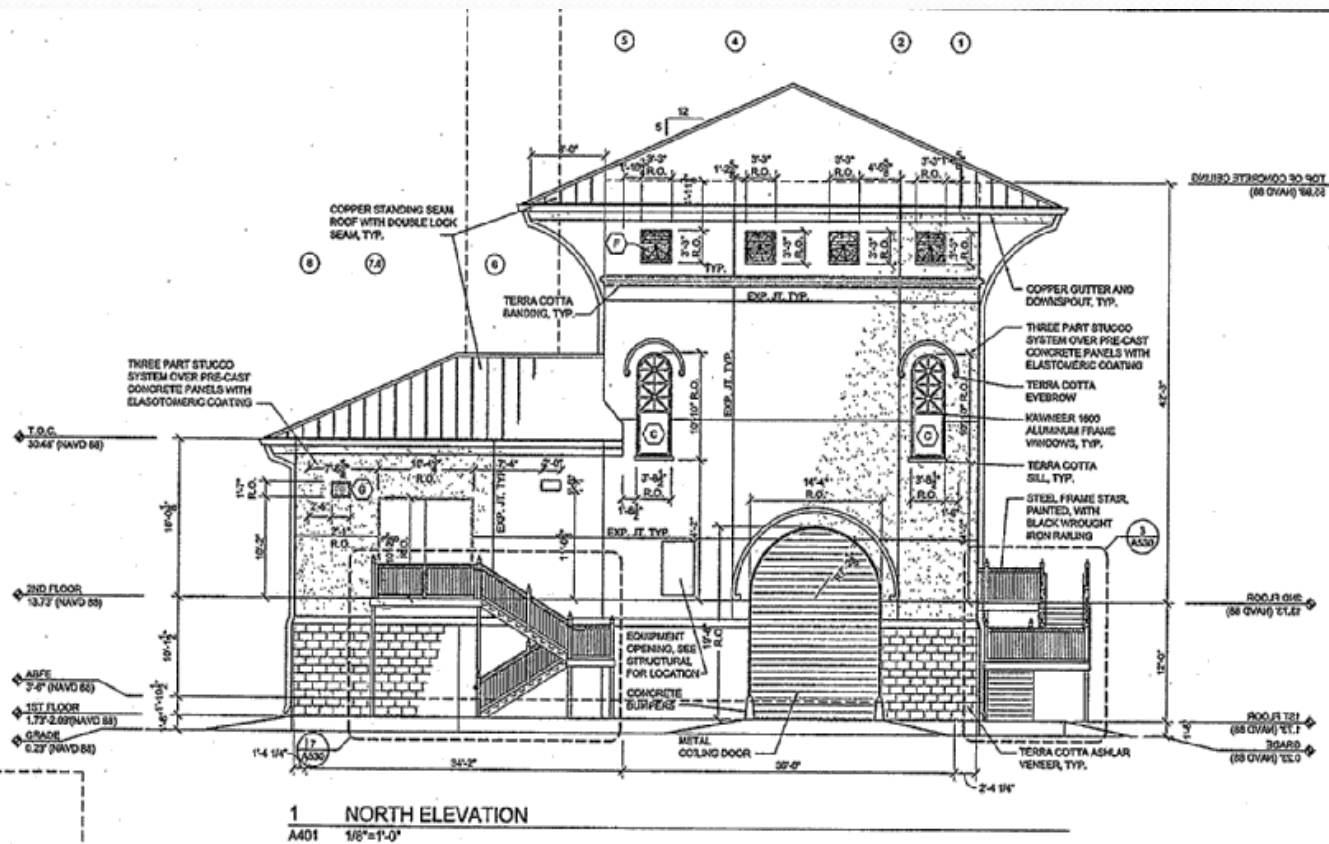


OSP-01 15MW GENERATOR BUILDING PROJECT

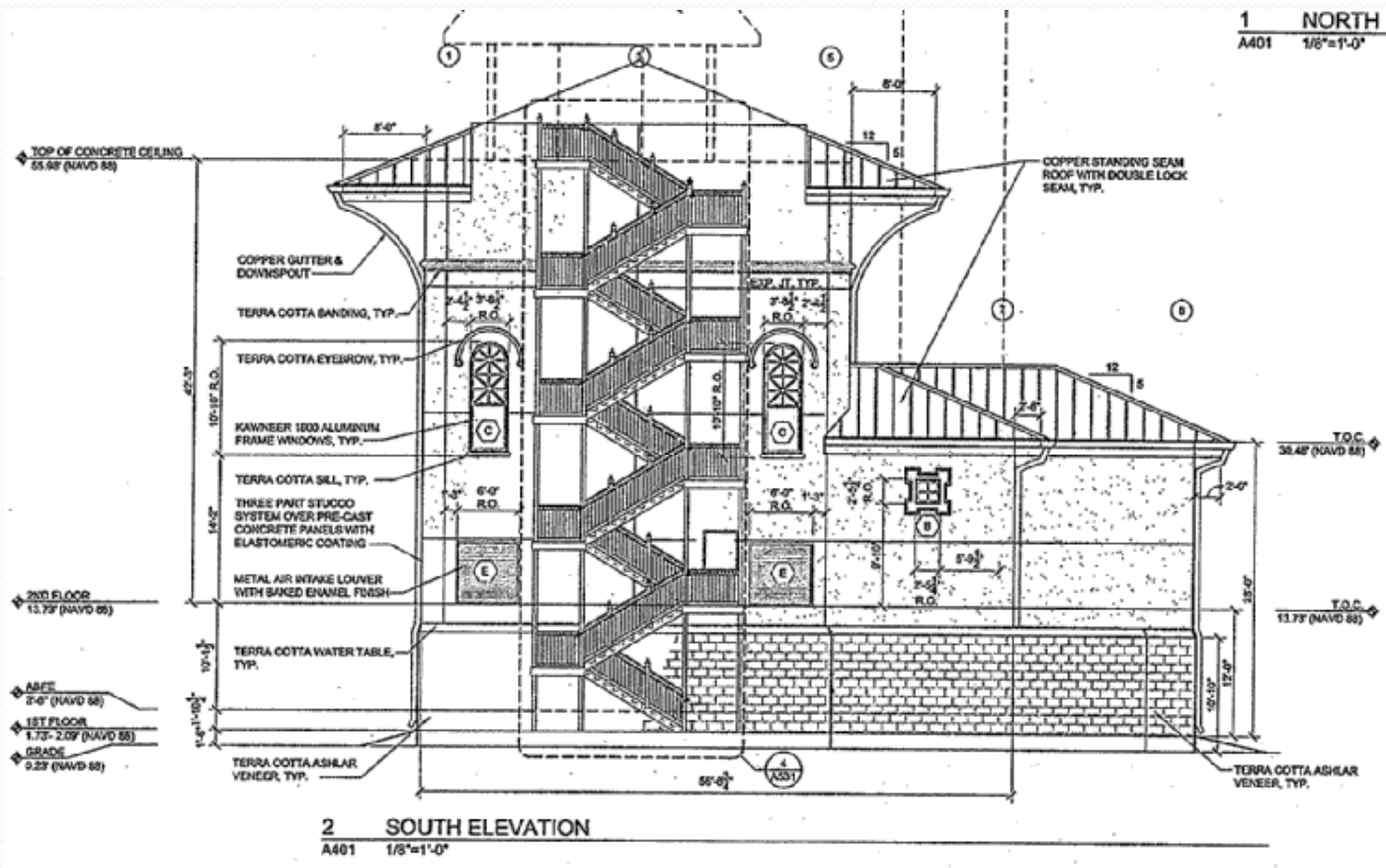
Construction of Concrete Generator Building

- Construction of pile caps and foundations for building and fuel containment structure
- Construction of reinforced concrete building
- Installation of the Gas Turbine Generator
- Modifications to the existing gas compressor building

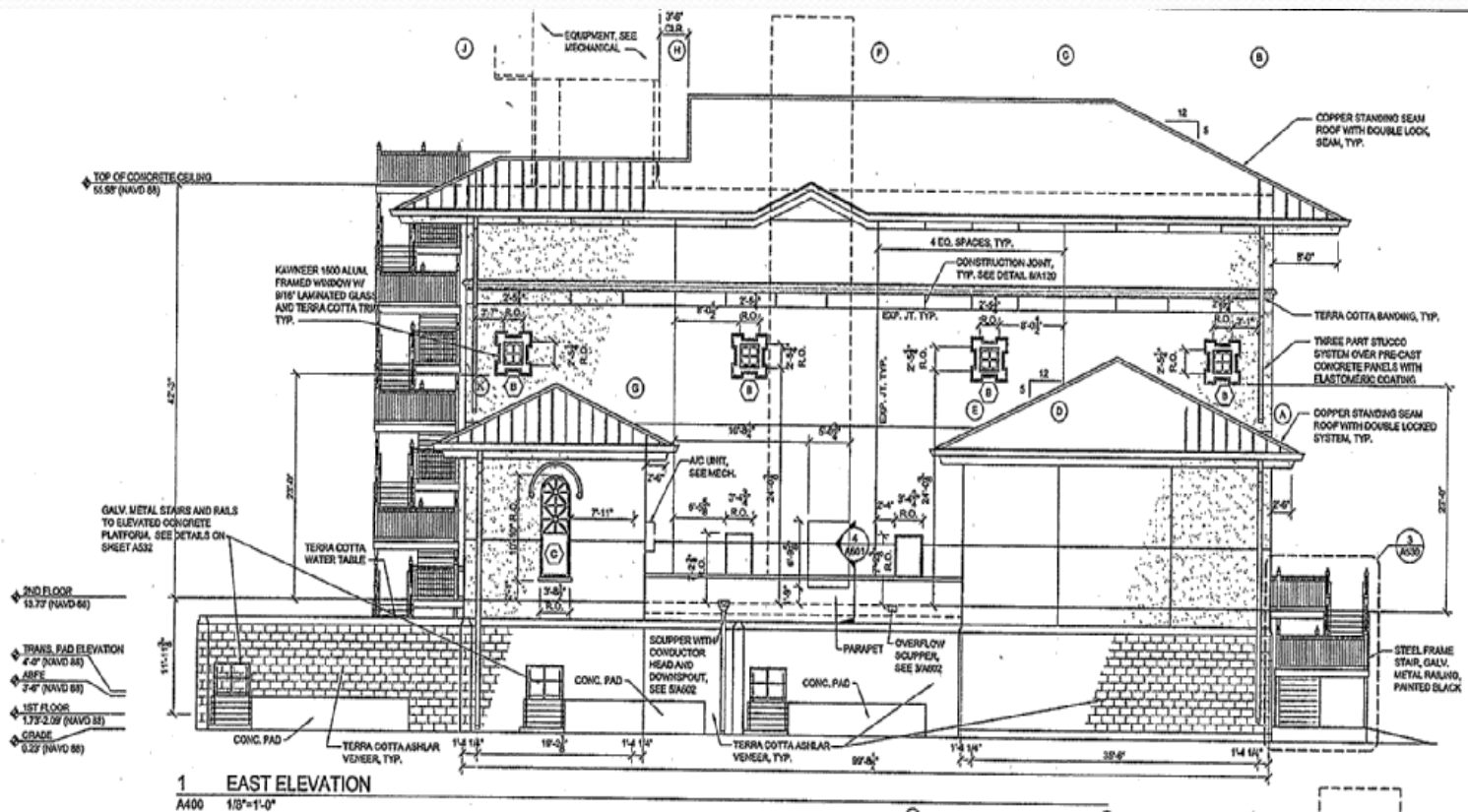
OSP-01 15MW GENERATOR BUILDING PROJECT



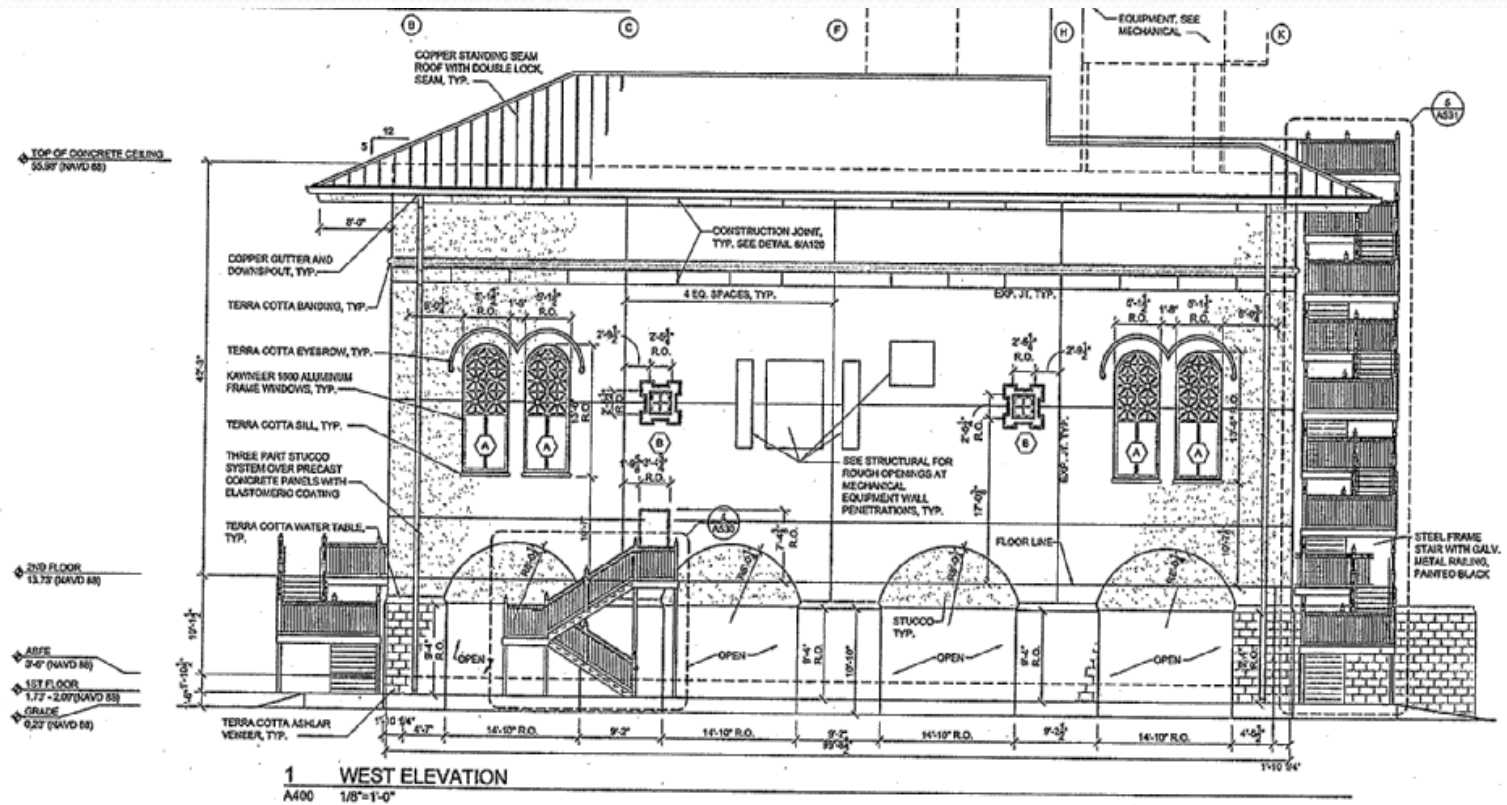
OSP-01 15MW GENERATOR BUILDING PROJECT



OSP-01 15MW GENERATOR BUILDING PROJECT



OSP-01 15MW GENERATOR BUILDING PROJECT





UPCOMING STORM PROOFING PROJECTS AT CWP

OSP-03: Construction of a perimeter water barrier around the CWP Power Plant Complex.

OSP-04: Storm Proofing the existing Power Plant Buildings



OSP-01 15MW GENERATOR BUILDING PROJECT

Brief overview of the claims process by Mr.
Anthony Stewart, Counsel - S&WB Legal
Department

QUESTIONS

SELA/OSP HOTLINE

(504) 585-2450



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