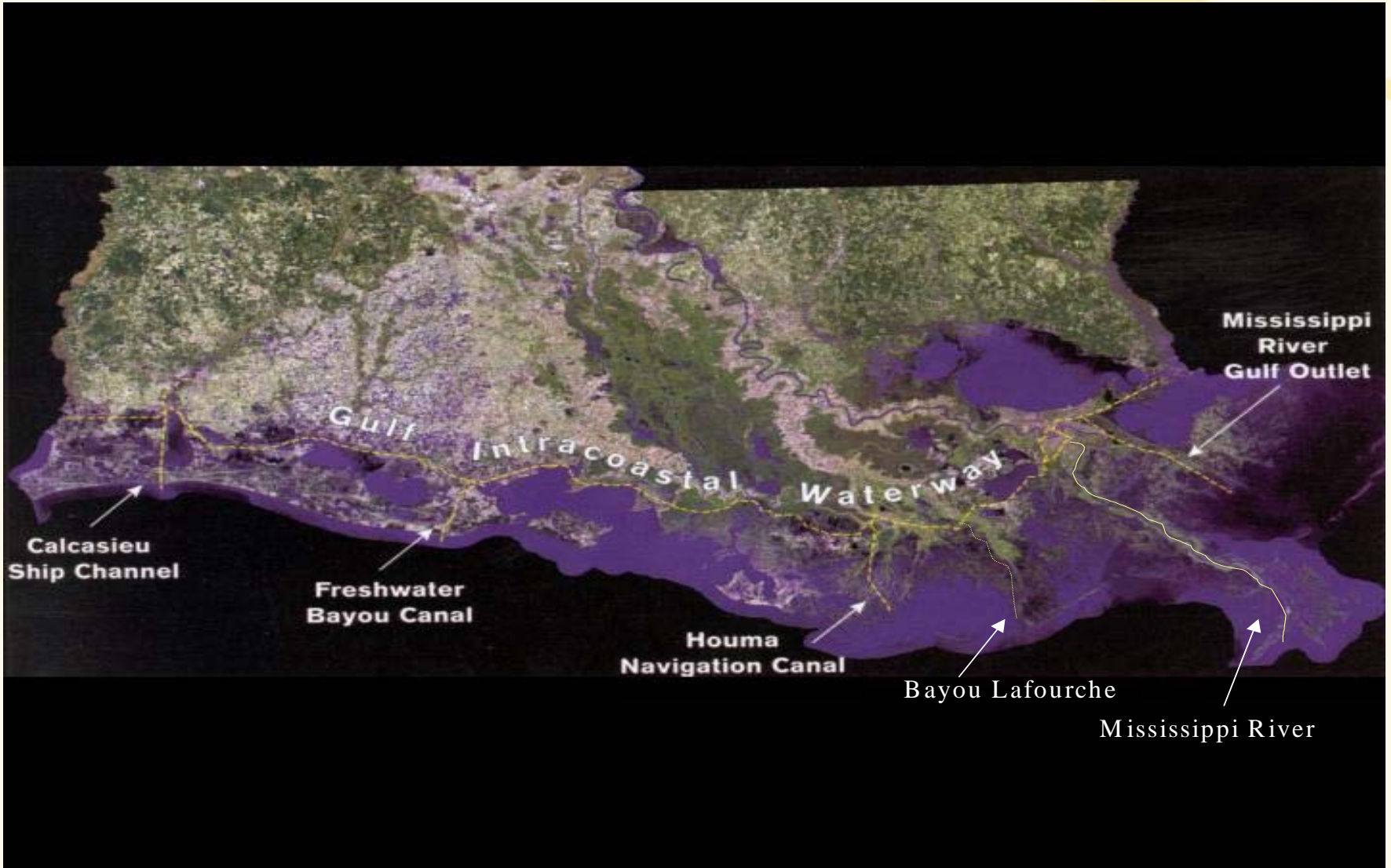


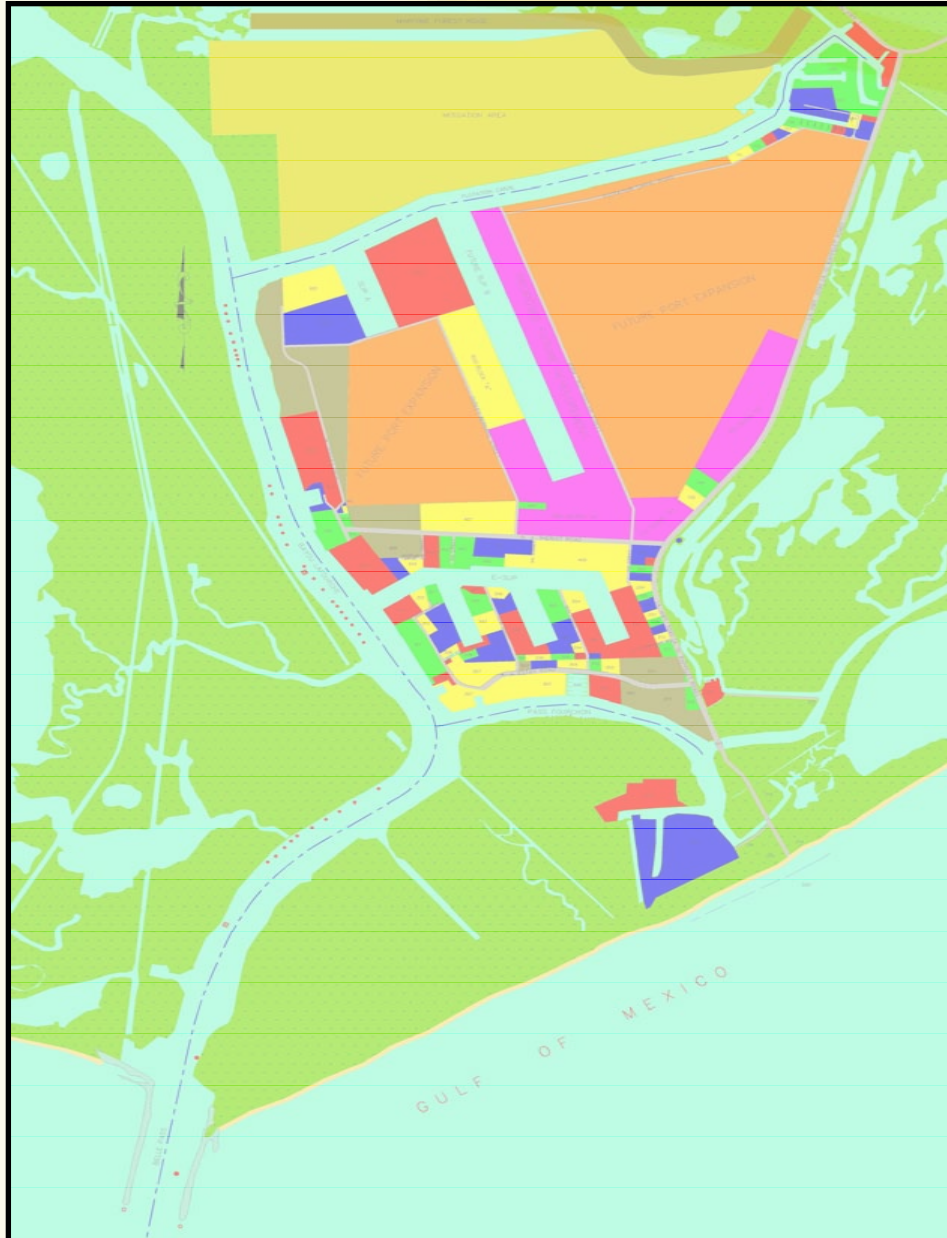


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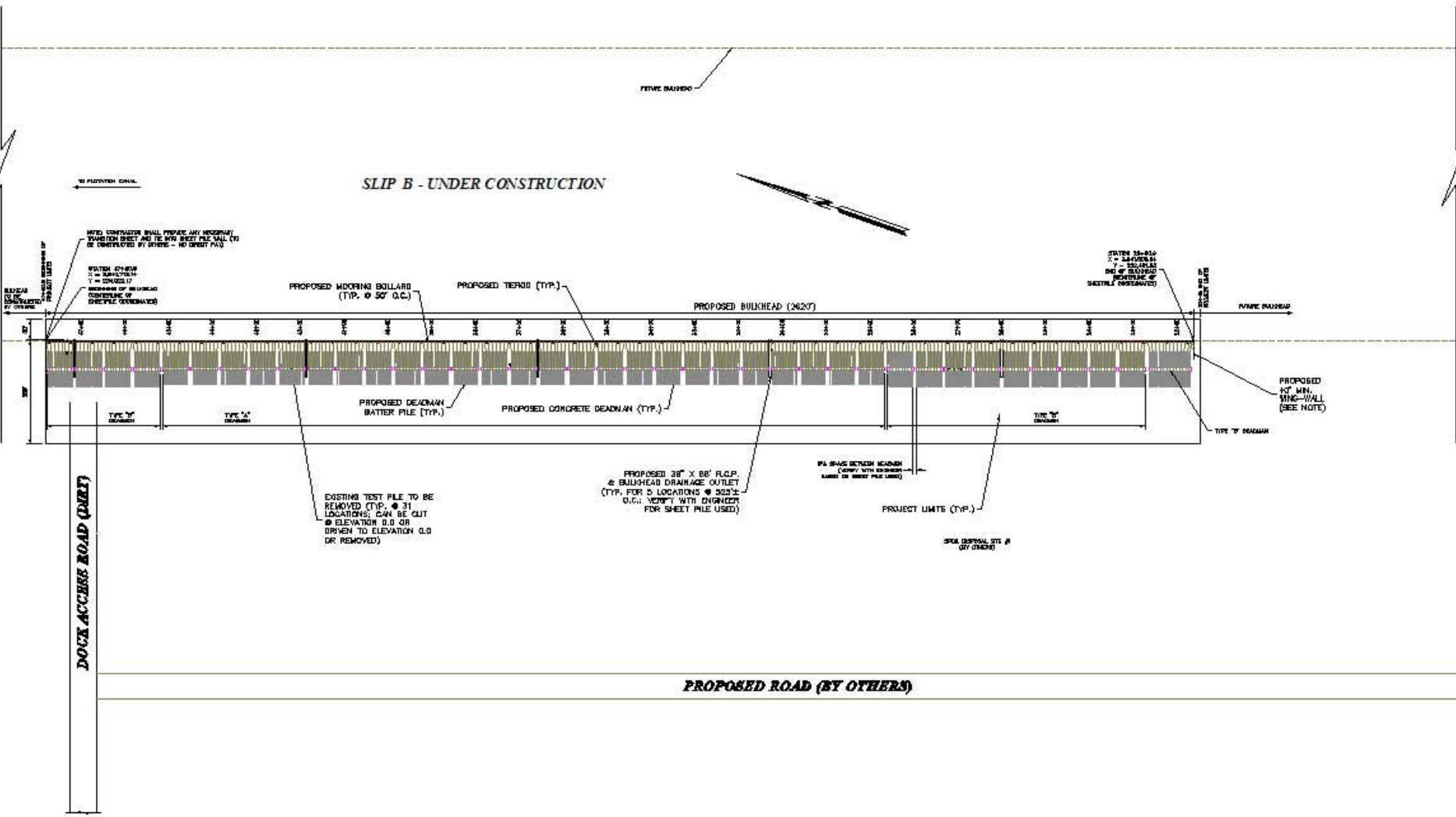


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Location



Site Plan



Project Scope and Design Criteria



- 2620' steel bulkhead system along the western side of Slip B
- Water depth of 26' (-26' bottom NGVD)
- Surcharge of 200 psf
- Final fill elevation +6' NGVD
- Top of Bulkhead +6.5' NGVD

Typical Bulkhead Design

26' Depth & 200# Surcharge



- One 55' Compression Pile and one 55' tension pile spaced evenly.
- 60' – 55 ksi sheet pile
- Lightweight aggregate close to bulkhead primarily for drainage

Soil Borings



- Soil boring were taken by PSI
- (Project Number 254-25148-1)
- Led to a test pile program
- Led to many design option considerations to reduce cost

Test Pile Program



- Due to soil conditions a test pile program was conducted.
- The results helped reduce project cost significantly by allowing the use of timber piles versus concrete or steel piles.

Results of Soil Boring and Test Pile Program

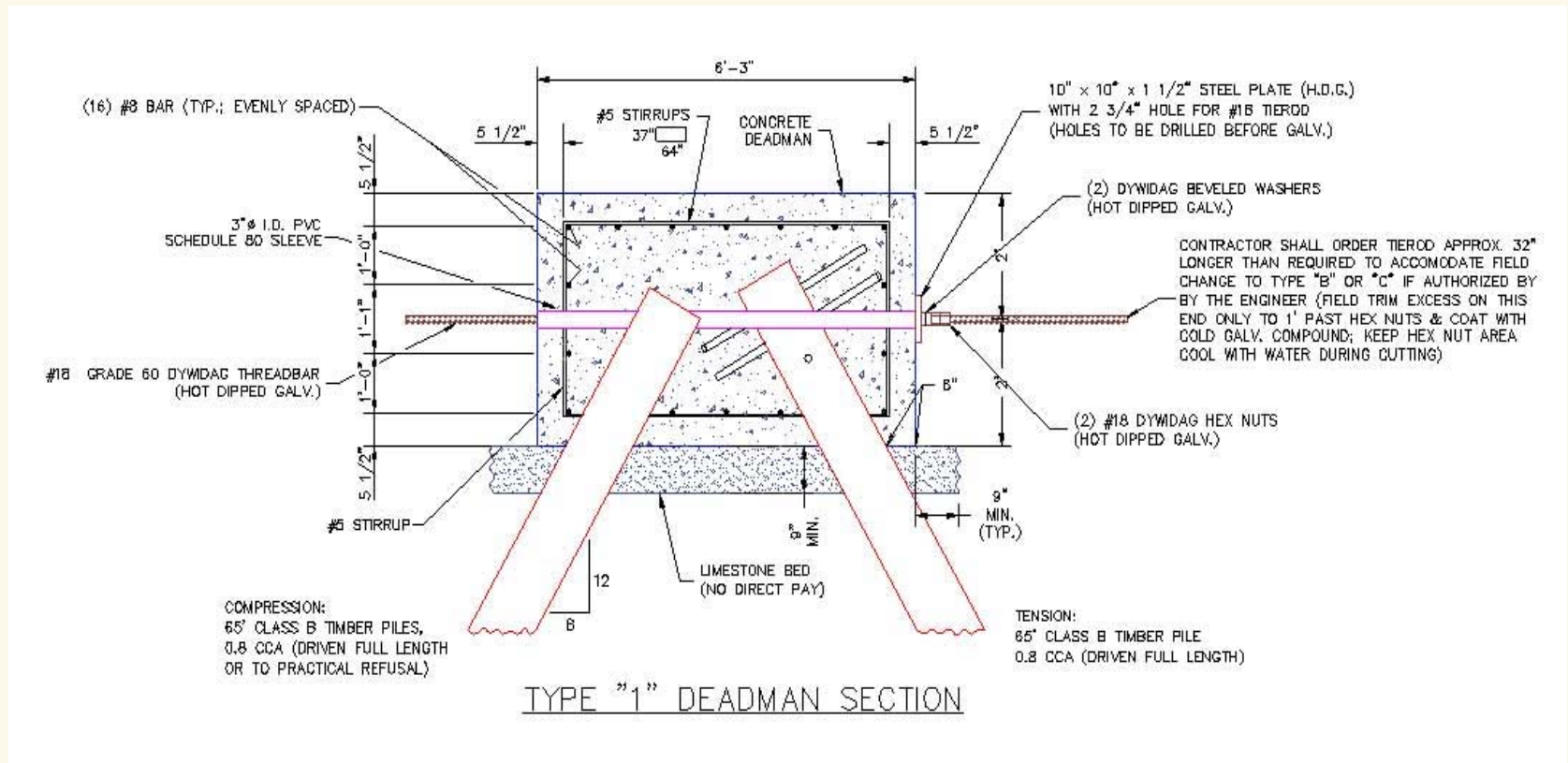


- Two different deadman designs
- Increase in sheet length from previous designs
- Increase in the volume of lightweight aggregate used from previous designs
- Increase in fill material available for the project site

Deadman Type 1



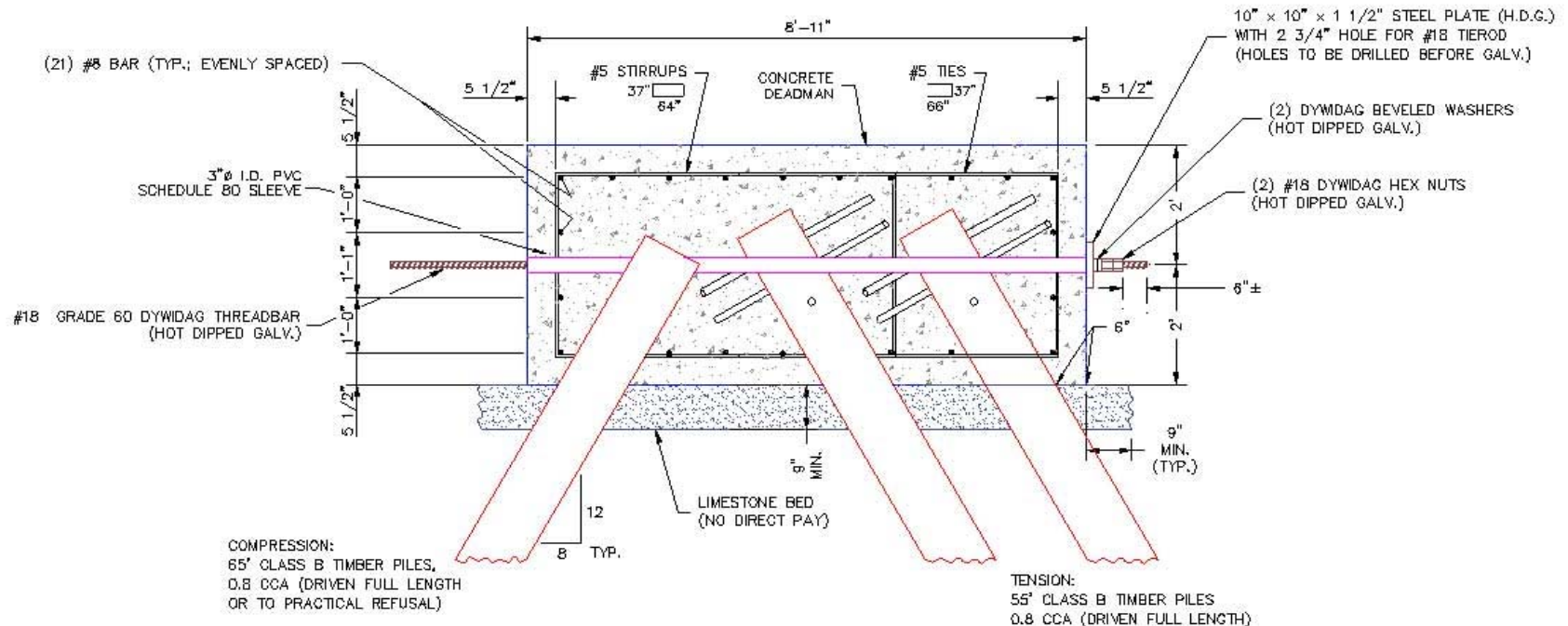
- Requires one 65' compression pile and one 65' tension pile spaced at 3 foot on center
- Acceptable if a 65' pile can be driven to length



Deadman Type 2

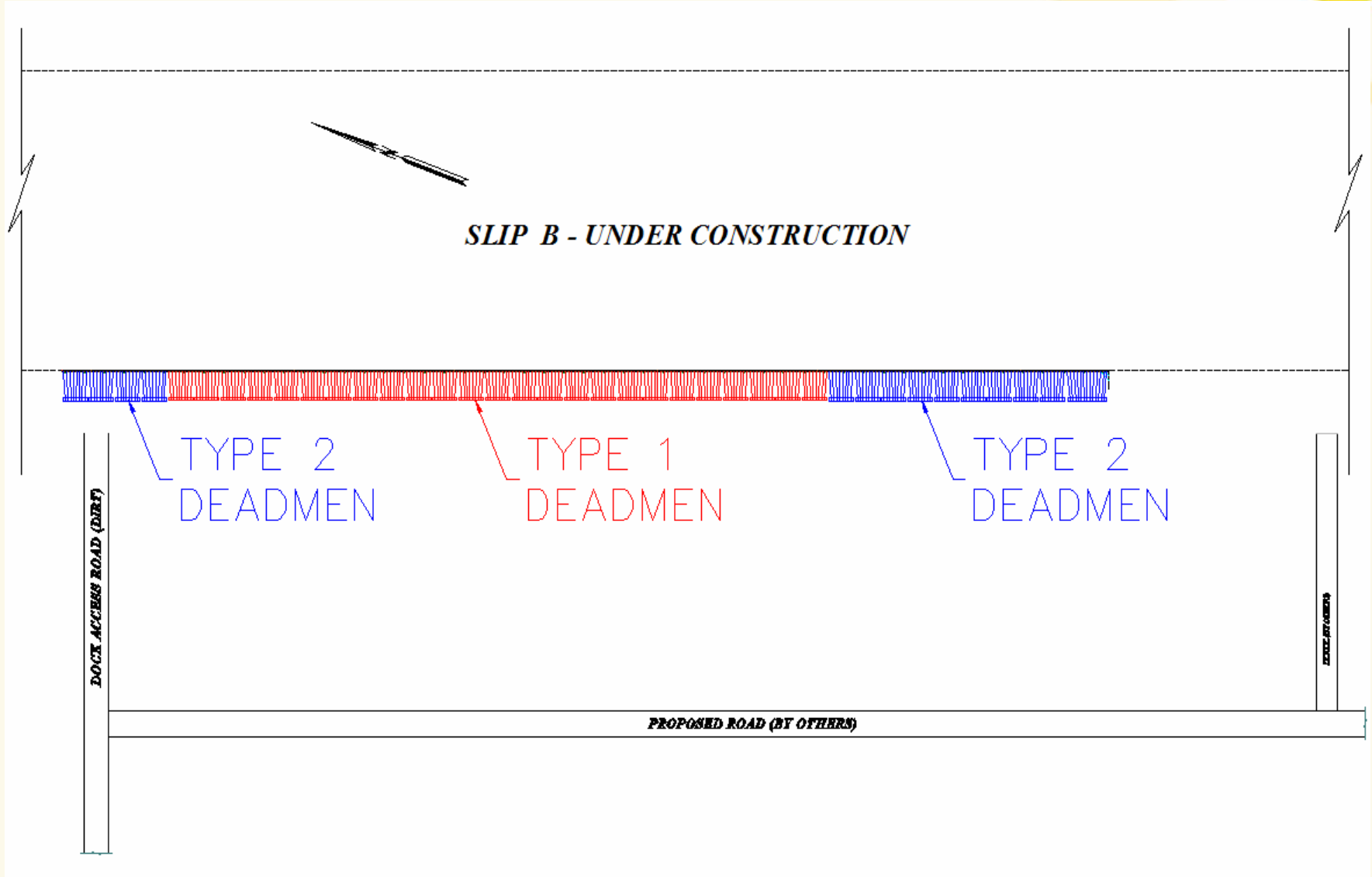


- Requires one 65' compression pile and two 55' tension piles spaced at 3 foot on center
- Required if a 65' pile cannot be driven to length
- Results in 50% more piles being needed



TYPE "2" DEADMAN SECTION

Deadman Layout



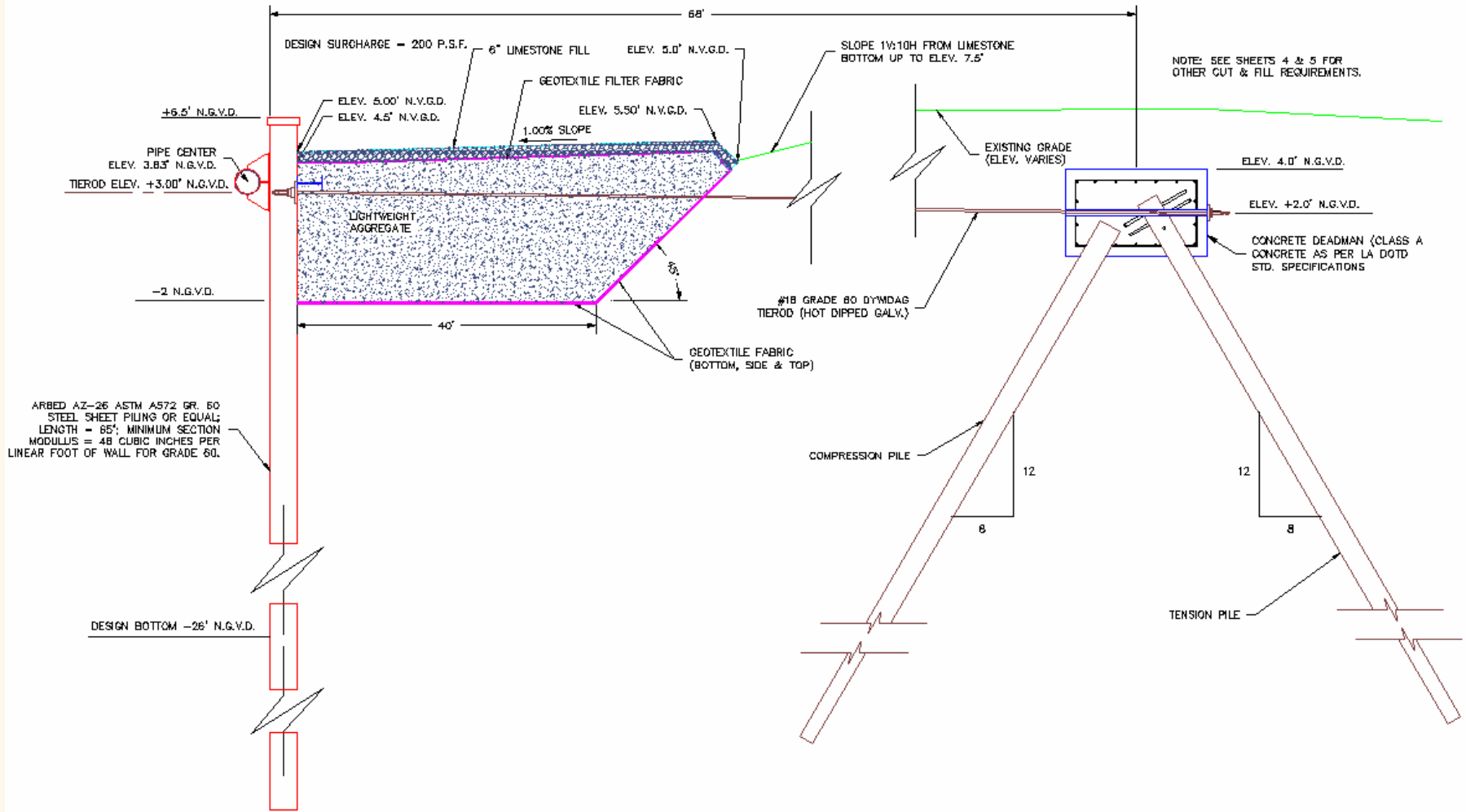
Sheet Pile Design



- 65' sheet required
- ARBED AZ-26 sheet pile or equal
- ASTM A572 Grade 60 steel

Typical Bulkhead Section

Current Design



TYPICAL BULKHEAD SECTION













01/05/2006







12/09/2005



Rig Repair



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04/10/2006



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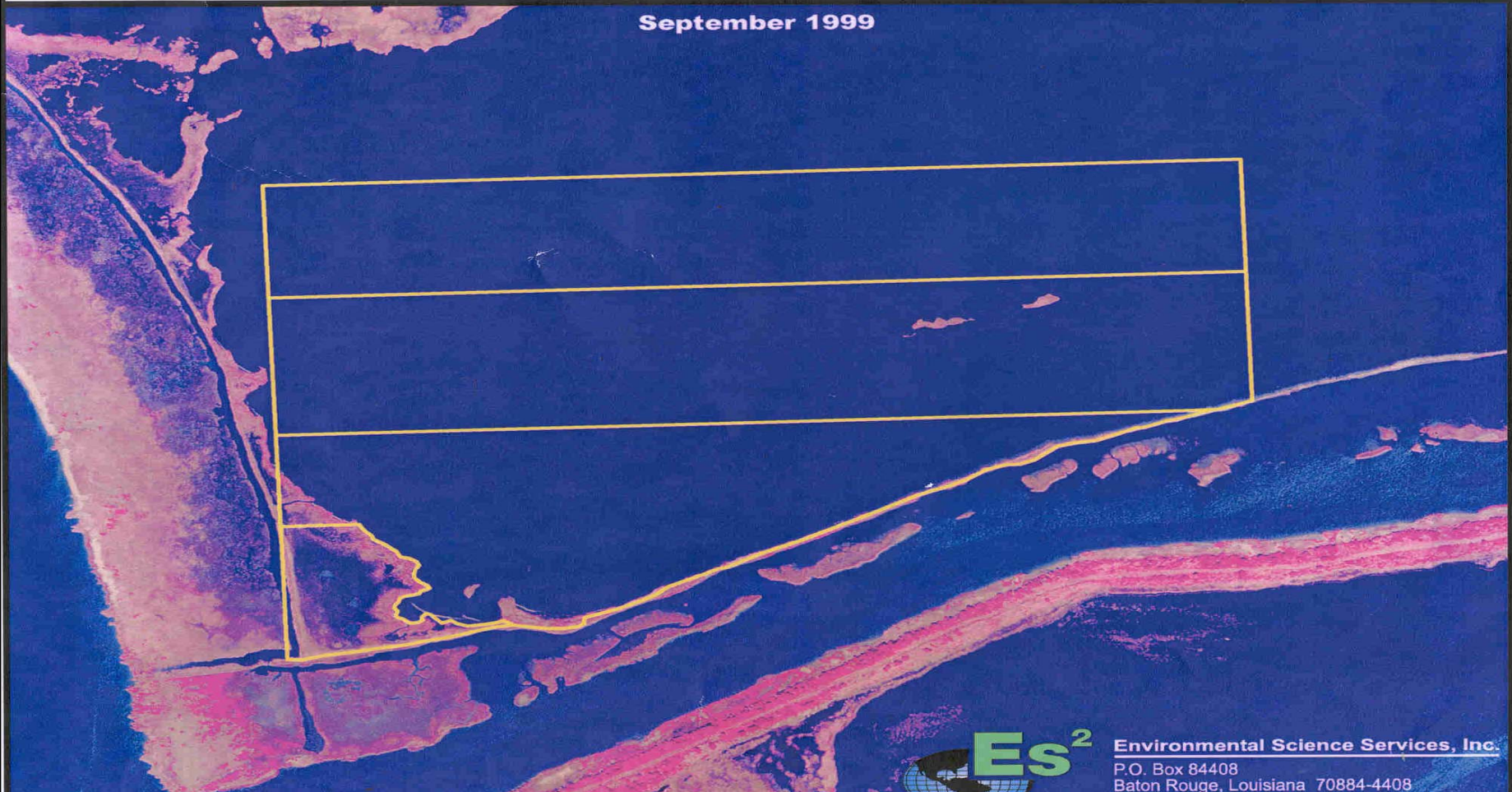


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