SECTION 905 -- PROPOSAL (CONTINUED)

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (We) enclose a certified check, cashier's check or bid bond for **five percent (5%) of total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bond within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the State of Mississippi as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO.	1	DATED	8/14/2013	ADDENDUM NO.		DATED	
ADDENDUM NO		DATED		ADDENDUM NO.		DATED	

Number	Description
1	Revised Table of Contents, replace same; Revised NTB Nos. 2382 & 4587, replace same; Add SP 907-829-2; Revised BidItems, replace same; Revised or Added Plan Sht. Nos. 2-5, 13, 15, 16, 19, 20, 31, 61, 127-132, & 1007; Amendment EBS Download Required.

TOTAL ADDENDA: 1
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

_____
Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

President	Address
Secretary	Address
Treasurer	Address

The following is my (our) itemized proposal.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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SECTION 905 - PROPOSAL,
PROPOSAL BID ITEMS,
COMBINATION BID PROPOSAL,
CERTIFICATION OF PERFORMANCE - PRIOR FEDERAL-AID CONTRACTS,
CERTIFICATION REGARDING NON-COLLUSION, DEBARMENT AND SUSPENSION,
SECTION 902 - CONTRACT FORM, AND SECTION 903 - CONTRACT BOND FORMS,
PILE DRIVING FORM,
OCR-485.

(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET OF SECTION 905 AS ADDENDA)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2382 **CODE: (IS)**

DATE: 02/12/2009

SUBJECT: Status of Right-of-Way

Although it is desirable to have acquired all rights-of-way and completed all utility adjustments and work to be performed by others prior to receiving bids, sometimes it is not considered to be in the public interest to wait until each and every such clearance has been obtained. The bidder is hereby advised of possible unacquired rights-of-way, relocatees and utilities which have not been completed.

The status of right-of-way acquisition, utility adjustments, encroachments, potentially contaminated sites and asbestos containation are set forth in the following attachments.

In the event right of entry is not available to ALL parcels of right-of-way and/or all work that is to be accomplished by others on the date set forth in the contract for the Notice to Proceed is not complete, the Department will issue a restricted Notice to Proceed.

STATUS OF RIGHT-OF-WAY
NHS-0010-01(145)
105281-302000
Harrison County
July 17, 2013

All rights of way and legal rights of entry have been acquired **except:**

NONE.

STATUS OF POTENTIALLY CONTAMINATED SITES
NHS-0010-01(145)
105281-302000
Harrison County
June 7, 2013

THERE IS NO RIGHT OF WAY REQUIRED FOR THIS PROJECT. NO INITIAL SITE ASSESSMENT WILL BE PERFORMED. IF CONTAMINATION ON EXISTING RIGHT OF WAY IS DISCOVERED, IT WILL BE HANDLED BY THE DEPARTMENT.

ASBESTOS CONTAMINATION STATUS OF BUILDINGS
TO BE REMOVED BY THE CONTRACTOR
NHS-0010-01(145)
105281-302000
Harrison County
June 7, 2013

Reference is made to notices to bidders entitled "Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP)" and "Removal of Obstructions".

The following pertinent information is furnished concerning asbestos containing materials (ACMs), if any, found in buildings to be removed by the Contractor.

There is no Right of Way required for this project. There are no buildings to be removed by the contractor.

ENCROACHMENT CERTIFICATION

NHS-0010-01(145) / 105281302

Harrison County(ies)

July 15, 2013

This is to certify that the above captioned project has been inspected and no encroachments were found.

UTILITY STATUS REPORT

NHS-0010-01(145) / 105281302

Harrison County(ies)

July 15, 2013

This is to certify that the above captioned project has been inspected and potential utility conflicts are as noted below.

Coast Electric Power Association

Coast Electric Power Association has aerial power lines running the north side of Big Ridge which would be in conflict with the construction of the bridge. Coast Electric Power Association is scheduled to complete the relocation at the end of September 2013.
Restriction Area: STA. 15+00 - 37+00.
Contractor's operations would be adversely affected.

AT&T-Mississippi

AT&T has underground communications lines running the south side of Big Ridge which would be in conflict with the construction of the bridge and roadway. AT&T is scheduled to complete the adjustments at the end of September 2013.
Restriction Area: STA. 17+00 - 37+00
Contractor's operations would be adversely affected,

Mississippi Power -Transmission Division

Mississippi Power (Transmission Division) has not completed relocating their facilities, but their structures are outside the construction areas and should not interfere with our proposed construction. Mississippi Power is scheduled to complete the adjustments at the end of February 2014.
Contractor's operations should not be adversely affected,

Cable One

Cable One has aerial cable lines running the north side of Big Ridge which would be in conflict with the construction of the bridge and roadway. Cable One lines are attached to Coast Electric Power Association poles. Cable One is scheduled to complete the adjustments mid October 2013.
Restriction Area: STA, 15+00 - 37+00
Contractor's operations would be adversely affected.

CenterPoint Energy

CenterPoint Energy has underground natural gas lines ruining the south side of Big Ridge which would be in conflict with the construction of the bridge and roadway. CenterPoint Energy is scheduled to complete the adjustments at the end of September 2013.
Restriction Area: STA. 17+00 - 37+00
Contractor's operations would be adversely affected.

City of D'Iberville

The city's water and sewer facilities will be included under the construction operations
Contractor's operations should not be adversely affected.

This is to certify that all necessary arrangements have been made for all utility work involved to be undertaken and completed as required for proper coordination with the physical construction schedules.

As noted above, contractor's operations should not be adversely affected, except as noted above.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4587 **CODE (SP)**

DATE: 08/14/2013

SUBJECT: Placement of Fill Material in Federally Regulated Areas

PROJECT: NHS-0010-01(145) / 105281302 – Harrison County

A Permit (404, General, Nationwide, etc.) for placing fill material federally regulated sites is required.

The Department has acquired the following permits for permanently filling at regulated sites that are identified during project development:

Nationwide Permit No. 14 (Waters of U.S.) - All sites with area less than 0.10 acre.

General Permit No.46 (Wetlands & Waters of US) – All Sites Per Table of Impacts (ID. No. SAM-2013-114) in Permit.

Copies of said permit(s) are on file with the Department.

Securing a permit(s) for the filling of any other regulated site, the purpose of which is temporary construction for the convenience of the Contractor, shall be the responsibility of the Contractor.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-829-2 **CODE: (SP)**

DATE: 07/30/2013

SUBJECT: Noise Barrier Walls

PROJECT: NHS-0010-01(145) / 105281302 – Harrison County

Section 907-829, Noise Barrier Walls, is added to and becomes a part of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

SECTION 907-829 - NOISE BARRIER WALLS

907-829.01--Description. This work consists of furnishing and erecting the noise walls in accordance with these specifications and in reasonably close conformity with the dimensions, lines, and grades indicated on the plans. The walls are to be designed as post-supported. The wall shall be designed according to AASHTO Guide Specifications for Structural Design of Sound Barriers, 1989 and 1992 Interim Specifications.

907-829.01.1--Wall Unit Design, Performance Requirements and Submittals. Detailed layout, fabrication drawings, and complete engineering calculations based on the general layout in the MDOT plans shall be submitted for approval prior to construction. The submittals shall include and meet, but not to be limited to the following requirements:

1) The drawings shall include all information necessary for prefabricating or field constructing wall sections and posts. Drawings shall show shape, dimensions and layout of wall components and details of reinforcing steel, as well as quantity, type size and details of connection and lifting hardware, and any additional details necessary for a complete review.

2) The drawings shall include a complete elevation view of each wall section indicating top and bottom elevations as well as roadway grade. The Contractor shall design the top of the barrier to be horizontal and at or above the wall profiles shown on the plan drawings. Change in elevation shall be accomplished by stepping sections at post. Step shall allow for a smooth transition in wall height as determined by the Engineer, and shall not exceed two (2) feet in height. The drawings shall include a numbered wall component layout, and shall show horizontal and vertical alignment of the wall. Panels may be cast in sections and stacked to achieve the design height. All joints shall be lined up and horizontal alignment shall be maintained for the joints continuously for as many bays as practical.

3) The drawings shall also include all information needed to erect the wall, including the proposed drill shaft elevations and depths, the details and construction procedure for connecting panels, panels to posts, and posts to foundation shafts, details necessary to

account for change of grade, details for any additional drainage structures, details for spanning or integrating with any existing or new drainage structures or ditches, and any additional details necessary to complete the work.

4) All drawings shall be clear and complete, and shall be thoroughly checked before submittal. The Contractor shall be solely responsible for the content of the design plans and shall ensure the details of the wall conform to all requirements of the contract plans and specifications. Six sets of prints of the completed wall design plans shall be submitted for distribution. The prints submitted shall legible and have distinct details of sufficient contrast to be suitable for reproduction. The electronic CADD files for all drawings shall be submitted with the reproducible drawings on 3½-inch floppy disks or CD with the filenames contained thereon listed on the exterior of the disk to the primary Roadway Design Division contact. The CADD files shall be developed with MICROSTATION and shall be in a compressed zipped (.ZIP) format.

5) Design calculations shall include a summary of all design parameters used, including material types, strength values and allowable stresses, soil parameters, assumed loads and load combinations. Calculations shall be submitted covering the full range of heights and loading conditions of the noise wall.

6) All drawings and design plans submitted for distribution shall be signed, sealed and stamped in accordance with the laws relating to Mississippi State Board of Registration for Professional Engineers and Land Surveyors. The Contractor shall verify the design by the wall system supplier. Information to be verified shall include, but not be limited to soils, ground topography, design loads, location of utilities and other obstructions.

7) A sample wall section shall be submitted prior to construction of any wall panels. The section shall be constructed using the identical process for casting the permanent wall panels, including the installation of any hardware that will be used. If changes such as wall texture or color are required, a new sample panel shall be constructed before final approval can be made. The minimum sample panel shall be 4'x4' and include two sample posts and be erected at a location specified by the Engineer. The Engineer will reject wall units and posts not conforming to the approved sample wall section.

8) Submit construction sequence and scheme showing method and sequence of assembly of the noise wall, including drilling of shafts, placement of posts, reinforcement and concrete, excavation, bracing for excavation if required, installation of wall units, and placement of backfill.

9) Submit manufacturer's color samples for selection by the Engineer.

10) The wall shall be designed to limit the deflection in inches at the top of the wall due to wind load to not exceeding height of wall in feet divided by 50.

11) Working Stress Design shall be used in the analysis and design.

907-829.01.2--Qualifications. The installer of the wall shall have a minimum of five years of experience in the design and construction of noise walls, documented in a list of at least five (5) projects, which substantiate experience in noise walls. Include a brief description of each project and the name and phone number of owner's representative knowledgeable in each project listed.

907-829.02--Blank.

907-829.03--Construction Requirements.

907-829.03.1--Ground Mounted Noise Wall.

907-829.03.1.1--Foundation Design Parameters. The following design parameters for the soil shall be used in design of ground mounted noise wall foundations.

LPILE Design Parameters for Noise Walls

Internal *p-y* model	$\gamma`$ Effective Unit Weight (pci)	c_u Undrained Cohesion (psi)	ε_{50} Strain Factor -	ϕ Friction Angle (degrees)	k Soil Modulus (pci)
Soft CLAY	0.026	2.43	0.020	--	30
SAND (Reese, 1974)	0.032	--	--	30	60

907-829.03.1.2--Noise Barrier Walls and Posts. Noise wall panels and posts shall be constructed of pre-cast concrete in accordance with the plans and these specifications and approved shop drawings.

1) **General:** Fabricate, transport, and erect panels and posts in such a manner as to prevent damage thereto. Fabricate the panels and posts in accordance with Sections 804, 805 and 806, except as modified below,

   (a) Use form that is true to the dimensions shown in the approved shop drawings.
   (b) Place the concrete in one continuous lift resulting in no cold joint.
   (c) Provide all accessories, materials, and methods which are not specifically specified in the plans and these specifications, but which are essential for installation or construction of the walls and posts commensurate with the best standard practice of the industry, subject to the approval of the Engineer.

2) **Materials**: Furnish the Engineer with certification that the pre-cast concrete supplied for the construction of the walls and posts meet the concrete class and strength requirements specified in the plans.

3) **Construction**: Noise wall panels and posts shall be constructed as follows.

(a) Fill any and all holes on the panels resulting from their fabrication or installation with an approved mortar grout.
(b) Cut all exposed bars, etc., used in lifting or assembling the panels and posts flush with the surface. Then clean the bars, and coat the opening with an approved epoxy.
(c) Paint all exposed metal fasteners in the finished work with an approved galvanized paint.
(d) Do not use panels and posts damaged by improper storing or handling.
(e) Posts shall be either pre-cast, reinforced concrete or pre-cast, pre-stressed concrete. Final color shall be as directed by the Engineer. Post attachment to the panels shall be tongue-and-groove connection. Post attachment to the footing may be steel anchor plate or by embedment in poured concrete. Post construction and connection details shall be specified in the shop drawings.
(f) Use anchor bolts made of steel meeting the requirements of ASTM Designations: A 305 and A 325 and galvanized in accordance with ASTM Designation: A 153. All structural steel and plates shall be A 36 steel. All exposed metal shall be hot dip galvanized in accordance with ASTM Designation: A 123.

907-829.03.1.3--Cast-In-Place Concrete.

907-829.03.1.3.1--General. All Cast-In-Place concrete shall be in accordance with the plans and these specifications.

907-829.03.1.3.2--Materials. Materials for Cast-In-Place concrete shall meet the following.

(a) Provide concrete of the class specified in the plans.
(b) Provide reinforcing steel of deformed bars meeting the requirements of ASTM Designation: A 615, Grade 60.
(c) Use anchor bolts made of steel meeting the requirements of ASTM Designations: A 305 and A325 and galvanized in accordance with ASTM Designation: A 153. All structural steel and plates shall be A36 steel. All exposed metal shall be hot dip galvanized in accordance with ASTM Designation: A 123

907-829.03.1.4--Drilled Shafts.

907-829.03.1.4.1--Drilled Shaft Design. Design of drilled shafts shall be performed by a qualified representative knowledgeable of the design and construction process. The software for analysis and design of drilled shafts under lateral load such as LPile developed by Ensoft, Inc., LCAP and PYSHEET by Virginia Transportation Research Council (VTRC), or any other program approved by the Engineer may be used in the design of drilled shafts.

907-829.03.1.4.2--Installation of Drilled Shafts. Installation of drilled shafts shall be in accordance with Section 803 of the Standard Specifications, except modified below:

(a) Drilled Shaft Load Tests will not be required.
(b) Drilled Shafts will not be measured and paid as a separate pay item.

907-829.03.1.5--Appearance of Wall System. Architectural aesthetic treatment shall be applied to both sides of panels. A form liner shall be used to create an architectural feature of fractured texture on roadway side and brick texture on non-roadway side. The fractured texture shall be similar to Saint Mary's and the brick texture shall be similar to Old Brick by the Scott System, Inc. or approved equal. Color of panels will be selected from an approved manufacturer's standard color selection chart.

907-829.03.1.6--Construction Methods. Construction methods shall meet the following.

1) Prior to beginning earthwork on the project, stake the wall location in the field and establish the final ground line elevations at the noise walls after the roadway has been graded to its final elevation. Use these elevations to develop the shop plans, including a complete elevation view of each wall indicating top and bottom elevations as well as roadway grade. Protect the final ground elevations established in the field for the duration of the project, and do not adjust without prior approval of the Engineer. Keep to a minimum the clearing and grubbing, and trimming of trees as necessary to construct the walls. Any tree trimming or tree removal required shall be considered to be included in the wall contract.
2) Secure joints and connections in such a manner as to be structurally sound with no visible openings for sound transmission or light leaks.
3) Repair marred, chipped, scratched, or spalled areas of walls at no expense to the Department in accordance with the manufacturer's recommendations or at the Engineer's direction.
4) Place trench backfill for wall constructions in accordance with Subsection 203.03.8.6.
5) Dispose of all excess excavation in a manner satisfactory to the Engineer.
6) Tolerances:
   (a) Ensure that vertical alignment for walls and posts is:
   ½ inch for wall heights to 10 feet;
   1 inch for wall heights greater than 10 feet to 20 feet; and 1½ inches for wall heights greater than 20 feet.
   (b) Ensure that horizontal alignment for walls is in reasonably close alignment to that shown in the plans so as to prevent panels from slipping out of the post joints.
   (c) Set post spacing ±½ inch of their intended location.

907-829.03.1.7--Coating for Ground Mounted Noise Walls. The coating for ground mounted noise walls shall meet the following.

1) Description: Coating for color finishing shall be a premium, water-borne, alkali-resistant, pigmented stain formulated with styrene acrylic for concrete surface. Acceptable products shall allow moisture and vapor transmission and shall be formulated for exterior application with resistance to freeze/thaw, moisture, alkali, acid and mildew, mold or fungus, discoloration or degradation. Apply stain in accordance with the manufacturer's recommendations. The stain shall be applied by a manufacturer certified applicator.
2) Materials: Coating system shall be based on a high performance acrylic resin and inorganic pigments. It shall be designed to penetrate concrete surfaces while providing a

breathable, water repellant and color stable concrete protection. The materials shall be delivered in the original sealed containers, clearly marked with the manufacturer's name, brand type of material, batch number, and date of manufacture. Store materials in accordance with the manufacturer's recommendations.

3) Surface Preparation: Surface to which coating is to be applied must be dry and free from dirt, paint, sealers, wax, or other foreign material. In addition, glazed or glossy surfaces must be chemically, acid washed, or mechanically abraded to remove gloss before application of the coating to allow maximum penetration.
4) Application: Coating system on roadway side may be applied by brush or roller for small or edging work or airless spray equipment. Coating system on residential side shall be applied by roller or an approved method to produce a 2-tone painted concrete textured panel in a brick pattern. The coating system shall be applied in two coats until color uniformity, intensity, and complete hiding are achieved. Do not apply coating prior to 28-day concrete cure and surface is dry. Coating shall be applied to all exposed surfaces of units and pre-cast concrete posts.

907-829.03.2--Bridge Mount Noise Walls. The bridge mounted noise walls shall be Sound Zero system fabricated by Manning Company or approved equal and shall be manufactured with the following.

1) General: The bridge mounted noise wall panel shall be a composite, light weight wall system weighting not exceeding 12 PSF intended for structure mounted applications. The panels shall provide a passive restraint system that prevents departure from the structure in the event of an accident.
2) Design: The manufacturer of the noise wall system shall take full responsibility of Engineering theory and calculations correctness and ensuring that all design assumptions for the panels are validated in accordance with AASHTO Standard Specifications for Highway Bridges 1996 and 1998 Interim; and meeting the requirements of Guide Specifications for Structural Design of Sound Barriers 1989.
3) Material:
   (a) Wall Posts: Wall posts shall be W shape shop fabricated from A36 steel and hot dip galvanized in accordance with the requirements of ASTM Designation: A 123.
   (b) Wall panels:
   Sound Zero or approved equal steel core: 2-inch, 18 ga. G-60 galvanized ASTM Designation: A 653, yield strength 35 - 99 ksi, ultimate strength 45 - 57 ksi, minimum I=0.679 in. as manufactured by the Manning Company or approved equal in lengths as required. J-Channel: 1½"x2"x3", 16 ga. G-60 galvanized grade steel as per ASTM Designation: A 526 in lengths as required as manufactured by the Manning Company or approved equal.
   (c) Passive restraint cables: ¼-in diameter galvanized wire rope, ¼-inch diameter 7x19 IPS.RRL.IWRC with a flemish eye loop 3" x 6" at both ends. Cable shall have a minimum one inch of "slack" and a minimum breaking strength of 3.5 tons.
   (d) Lifting insert: ¾-inch diameter nut, galvanized w/flat plate.
   (e) E.P.S board: one pcf expanded polystyrene shall meet federal specification HH-I-524C Type I.

(f) Wind-Devil mechanical fastener: A polypropylene washer designed for the mechanical attachment of insulation as manufactured by Wind-Lock Corporation or approved equal.
(g) Fiberglass reinforcing fabric: 12 oz./sq. yd., with a minimum tensile strength of 300 lbs./in. of width.
(h) Basecoat: An acrylic, latex modified cement-mix ration: 1:1 by weight used to embed fiberglass reinforcing fabric.
(i) Finish:
- A factory mix acrylic texture finish coating with integral color applied to both sides of all panels.
- Stone aggregate, not greater than 3/8 inch clean and washed.
- Painting of all structural steel shall be in accordance with the Department's Standard Specifications.
- Color shall match the color of the ground mounted concrete noise walls.

(j) Anti-Graffiti Protection shall be applied to both sides of panels and posts meeting the requirements of Subsection 907-829.03.3.
(k) Architectural texture finish shall be applied to both sides of panels. An architectural feature of flute texture on roadway side and brick texture on residential side shall be created. The flute texture shall be similar to profile of 1-inch Deep Rib and the brick texture shall be similar to Old Brick by the Scott System.

4) Construction: As indicated on the design contract drawings, approved shop drawings and as follows:

(a) Shop Drawings – Before beginning construction, submit, for approval, shop drawings showing fabrication details; and handling, transportations, and construction procedures for all wall elements including connections.

(b) Installation - Construct structure mounted posts and connections as indicated in the plans and in accordance with manufacturer's recommendations.

(c) Fabrication – Fabricate the panels in an approved plant in accordance with approved drawings and approved quality control plan.

- Fabricate, for approval, a 4' x 4' panel and finish as specified for the full height wall system, and erect at a location specified by the Engineer. Fabricate sample wall by the same process that will be used for all production. Panels not conforming to the approved test sample will be rejected.
- Sound Zero or approved equal steel core units shall be supplied in proper lengths. Each of these units shall be designed to allow an overlap adjustment one to the other to obtain the required overall height of assembled steel core structure. Minimum overlap ¾ inch.
- Pieces shall be fastened together along the overlapping seams, with screws at 24 inches o.c. max.
- J-Channel – shall be placed on both ends to the substrate and secured by welding or screw fastening. All welds shall be "touch-up" with a zinc coating.

- Wire rope with formed loops: 1/4-inch diameter 7 x 19 IPS.RRL.IWRC galvanized wire rope with a minimum breaking strength of 3.5 tons shall be placed as shown on approved shop drawings, with the cables on the community side of the Sound Zero core. Cable shall be a minimum one foot longer than the width of the panel. Loops shall be attached securely to the core by either plastic or steel strapping.
- All surface oils and other foreign materials shall be wiped clean from the steel core structural unit prior to installing panels.
- Insulation, 1 pcf, shall be 2 feet by the full width, perpendicular to the steel core. The insulation shall be fastened using Wind-Devil Fasteners. One per sq. ft.
- Reinforcing fabric: The fiberglass reinforcing mesh shall be embedded into the wet basecoat, to encapsulate all six sides of the panel. The mesh shall be overlapped a minimum of 2½ inches on all sides.
- All edges of the panel shall be coated with an elastomeric prior to finishing either face of the panel.
- The approved finish is then applied to each face of the panel.
- Anti-graffiti primer is then applied to the entire panel, all six sides: Finish coat must be fully cured prior to primer applications.
- Fabrication Tolerances:

Panels (inch)	
Height	+1/4
Length	+1/2
Thickness	+1/4

(d) Handling, storage and transportation: Employ positive means to protect panel edges from damage. Load and ship panels with care as indicated or as per manufacturer's recommendation.

(e) Lift panels so as to minimize strain, distortion or impact loads.

(f) Erection – Install noise barrier wall as indicated as shown on approved shop drawings, and in accordance with the manufacturer's recommendation.

1. Install neoprene pad between base plates of the steel posts. The pad should compress sufficiently to provide uniform bearing for the full length of the panel.
   - Lift panels by the two (2) ¾-inch diameter lifting eyes located in the panel. After installation, the lifting eyes shall be removed and replaced with ¾-inch diameter x ¾-inch galvanized bolt, and washer to seal insert.
   - Once in place, panels shall be field drilled, at holes in post, to secure 5/8-inch diameter A325 bolts through wire rope loops. Passive restraint system as indicated.
   - Sealant: Use a polyurethane sealant to seal the panel to the post flange. Sealant is only required on one side of panel. Color of sealant shall match with the color of panels
2. Erection Tolerances:
   - Vertical alignment for walls and posts to be ¼ inch for all heights to 10 feet, ½ inch for wall heights to 20 feet, and ¾ inch for wall heights greater than 20 feet.

- Posts to be set with +½ inch of the indicated location.

(g) Reject individual panel for any of the following:
   1. Fractures or cracks passing through the panel. All cracked panels will be rejected either at the fabrication shop or at the construction site, even after installation, but prior to acceptance of the project.
   2. Defects that indicate proportioning, mixing and molding not in compliance with the specifications, as specified or indicated.
   3. Damaged ends, which prevent making a satisfactory joint.

(h) Repair and repair procedures require approval by the Engineer.

(l) Technical Assistance: Have a company representative present, full time, at the project site during erection procedures of the noise barriers to assist the fabricator, Contractor, and Engineer. Provide a technical representative to assist in the event unusual problems or special circumstances arise.

907-829.03.3--Graffiti Protection.

907-829.03.3.1--Description. Graffiti protection shall be provided for entire height on both sides of noise walls. The anti-graffiti coating shall be chemically compatible with the sealer coating to be used. Apply clear coatings, unless otherwise specified in the plans or approved by the Engineer. Subject to compliance with manufacturer's recommendations use one of the following or approved equal:

Defacer Erase Graffiti Control; ProSoCo, Inc.
Telephone Number: (913) 281-2700

ENVIROSEAL AG; Harris Specialty Chemicals, Inc.
Telephone Number: (800) 327-1570

Graffiti Guard Tycote Clear Base Coat with Tex coat
Graffiti Guard IIIS-Finish; Texture Coatings of America, Inc.
Telephone Number: (305) 581-0771

907-829.03.3.2--Application. The application process shall meet the following.

(a) Cleaning: Thoroughly clean all surfaces and allow them to dry, according to manufacturer's recommendations, before applying any coatings. Adopt cleaning procedures that will not damage the existing surface texture or coloring.

(b) Surface Preparation: Prepare all surfaces, including primer application, according to manufacturer's recommendations.

(c) Application Rates: Apply all cleaning, priming, and coating products according to manufacturer's recommendations, so that the finished product meets the requirements stated herein below.

907-829.03.3.3--Environmental Restrictions. Use only products meeting Federal, State, and Local environmental restrictions. Do not use products containing Lead, Cadmium, or Chromium.

(a) Volatile Organic Compounds (VOC): Do not use products with a VOC greater than 150 g/L.
(b) Local Condition: Ensure that the humidity and temperature are within acceptable ranges specified by the manufacturer.
(c) Wind Velocity: Protect vehicles or other property from damage resulting from dispersion of the material. Suspend operation until conditions improve enough to permit work to continue without damage.

907-829.03.3.4--Construction. Apply the product so that the completed product meets the following requirements:

Total product life:	Five years
Removal delay period:	Two months

Follow the application and cure time, specified by the manufacturer, to ensure that the coated surface is capable of withstanding graffiti application, spray paint, removal delay period, and cleaning without damage. Observe the proper cleaning procedures, as well as cleaning products, specified by the manufacturer. Use cleaning products that meet the requirements of the environmental restrictions. Ensure that the cleaned surface displays no sign of graffiti "shadows" or "ghosts".

Submit a copy of the Manufacturer's cleaning procedures and recommended cleaning products to the Engineer, before applying any anti-graffiti coating.

907-829.03.3.5--Certification. Furnish the Engineer with three copies of a test report certifying that the material meets all requirements specified above. The Engineer will consider any marked variation from original test values for a material or evidence of inadequate field performance of material to be sufficient evidence that the properties of the material have changed and the material will be removed from the above product list.

907-829.04--Method of Measurement. Noise barrier wall, of the type specified, will be measured for payment by the square foot. The area of measurement shall be calculated from the top of the wall panel to the bottom of the wall panel, and from center to center of post in accordance with the approved shop drawings. Only one side of the barrier wall will be measured for payment.

No separate payment will be made for posts, drilled shafts, testing, excavations, temporary support of excavation, backfill, cast-in-place concrete, reinforcement, joint materials, noise wall coating, graffiti protection, and other incidentals.

907-829.05--Basis of Payment. Noise barrier wall, measured as prescribed above, will be paid for at the contract unit price per square foot, which prices and payment will be full compensation for designing, furnishing all materials, fabricating concrete panels and posts, including all necessary connecting hardware, and constructing the noise wall in place, including any excavation and backfill needed for installing the panels and to adjust for the elevation difference between panels. Payment shall include compensation for all labor, materials, equipment and incidental required to install the wall and erect the wall complete in place to the lines and grade

shown on the approved shop drawings. No direct payment will be made for clearing and grubbing or tree removal in the areas of the noise wall. No separate measurement or payment will be made for installation of drilled shafts for ground mounted noise walls.

Payment will be made under

907-829-A: Ground Mounted Noise Barrier Wall, Contractor Designed -per square foot

907-829-B: Bridge Mounted Noise Barrier Wall, Contractor Designed -per square foot

Interchange Construction on I-110 at Popps Ferry Rd. and Boney Ave., known as Federal Aid Project No. NHS-0010-01(145) / 105281302 in Harrison County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
					Roadway Items
0010	201-A001		1	Lump Sum	Clearing and Grubbing
0020	202-B009		1	Each	Removal of Bridge
0030	202-B041		3,723	Linear Feet	Removal of Fence, All Types
0040	202-B057		9	Each	Removal of Inlets, All Sizes
0050	202-B064		885	Linear Feet	Removal of Pipe, 8" And Above
0060	202-B071		80	Square Feet	Removal of Sign Panels Including Hardware
0070	202-B078		21,009	Square Yard	Removal of Pavement, All Types and Depths
0080	202-B087		506	Linear Feet	Removal of Guard Rail, Including Rails, Posts and Terminal Ends
0090	202-B107		27	Each	Removal of Sign, Ground Mounted with Posts
0100	202-B132		1	Each	Removal of Traffic Signal
0110	202-B142		1	Each	Removal of Junction Box
0120	202-B149		4	Mile	Removal of Traffic Stripe
0130	202-B289		783	Linear Feet	Removal of Cable Rail
0140	203-A003	(E)	60,800	Cubic Yard	Unclassified Excavation, FM, AH
Changed 08/14/2013					
0150	203-EX013	(E)	13,334	Cubic Yard	Borrow Excavation, AH, FME, Class B7
Changed 08/14/2013					
0160	206-A001	(S)	3,356	Cubic Yard	Structure Excavation
0170	209-A004		86,756	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0180	211-A001		82,272	Square Yard	Topsoil for Slope Treatment, From Right-of-Way
0190	212-B001		1,709	Square Yard	Standard Ground Preparation
0200	213-B001		1	Ton	Combination Fertilizer, 13-13-13
0210	213-C001		12	Ton	Superphosphate
0220	216-A001		1,709	Square Yard	Solid Sodding
0230	217-A001		10,000	Square Yard	Ditch Liner
0240	219-A001		34	Thousand Gallon	Watering [$20.00]
0250	220-A001		12	Acre	Insect Pest Control [$30.00]
0260	221-A001	(S)	12	Cubic Yard	Portland Cement Concrete Paved Ditch
0270	223-A001		1	Acre	Mowing [$50.00]
0280	234-A001		9,991	Linear Feet	Temporary Silt Fence
0290	236-A004		1	Each	Silt Basin, Type D
0300	239-A001		206	Linear Feet	Temporary Slope Drains

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0310	406-A001		2,328	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0320	501-E001		163	Linear Feet	Expansion Joints, Without Dowels
0330	502-A001	(C)	354	Square Yard	Reinforced Cement Concrete Bridge End Pavement
0340	602-A001	(S)	9,523	Pounds	Reinforcing Steel
0350	603-CA088	(S)	3,008	Linear Feet	18" Reinforced Concrete Pipe, Class III, Rubber Type Gaskets
0360	603-CA089	(S)	864	Linear Feet	24" Reinforced Concrete Pipe, Class III, Rubber Type Gaskets
0370	603-CA090	(S)	100	Linear Feet	30" Reinforced Concrete Pipe, Class III, Rubber Type Gaskets
0380	603-CA091	(S)	76	Linear Feet	36" Reinforced Concrete Pipe, Class III, Rubber Type Gaskets
0390	603-CA125	(S)	568	Linear Feet	30" Reinforced Concrete Pipe, Class V, Jacked or Bored
0400	603-CB001	(S)	2	Each	18" Reinforced Concrete End Section
0410	603-CB002	(S)	10	Each	24" Reinforced Concrete End Section
0420	603-CB003	(S)	4	Each	30" Reinforced Concrete End Section
0430	603-CB004	(S)	2	Each	36" Reinforced Concrete End Section
0440	603-CE042	(S)	220	Linear Feet	44" x 27" Concrete Arch Pipe, Class A III, Flexible Plastic Gaskets
0450	603-CE045	(S)	470	Linear Feet	36" x 23" Concrete Arch Pipe, Class A III, Flexible Plastic Gaskets
0460	603-CF003	(S)	4	Each	36" x 23" Concrete Arch Pipe End Section
0470	603-CF004	(S)	1	Each	44" x 27" Concrete Arch Pipe End Section
0480	604-A001		1,738	Pounds	Castings
0490	604-B001		500	Pounds	Gratings
0500	606-B001		1,645	Linear Feet	Guard Rail, Class A, Type 1
0510	606-B002		509	Linear Feet	Guard Rail, Class A, Type 1, Double Faced
0520	606-B023		190	Linear Feet	Guard Rail, Remove and Replace Guard Rail & Posts
0530	606-C001		5	Each	Guard Rail, Cable Anchor Type 1, Wood Post
0540	606-D008		4	Each	Guard Rail, Bridge End Section, Type H
0550	606-D012		3	Each	Guard Rail, Bridge End Section, Type I
0560	606-E001		12	Each	Guard Rail, Terminal End Section
0570	607-B006		2,710	Linear Feet	60" Type II Chain Link Fence, Class II
0580	607-P1007		163	Each	Line Post, 7' x 1 1/2" Galvanized Steel
0590	607-P1009		33	Each	Line Post, 9' x 2" Galvanized Steel
0600	607-P1010		22	Each	Line Post, 10' x 2" Galvanized Steel
0610	607-P2019		3	Each	Brace Post, 10' x 2" Galvanized Steel
0620	607-P2022		2	Each	Brace Post, 12' x 2" Galvanized Steel
0630	607-P2023		16	Each	Brace Post, 8' x 2" Galvanized Steel
0640	609-D006	(S)	2,916	Linear Feet	Combination Concrete Curb and Gutter Type 1 Modified
0650	609-D007	(S)	194	Linear Feet	Combination Concrete Curb and Gutter Type 2 Modified

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0660	614-A002	(S)	136	Square Yard	Concrete Driveway, Without Reinforcement, 6-inch Thickness
0670	615-A003	(S)	1,214	Linear Feet	Concrete Type IV Cast-in-Place Median Barrier
	Changed 08/14/2013				
0680	615-A018	(S)	40	Linear Feet	Concrete Bridge End Barrier, 33.5"
0690	616-A001	(S)	76	Square Yard	Concrete Median and/or Island Pavement, 4-inch
0700	616-A003	(S)	16	Square Yard	Concrete Median and/or Island Pavement, 10-inch
0710	618-A001		1	Lump Sum	Maintenance of Traffic
0720	619-A1004		3	Mile	Temporary Traffic Stripe, Continuous White, Paint
0730	619-A2004		3	Mile	Temporary Traffic Stripe, Continuous Yellow, Paint
0740	619-A3007		3	Mile	Temporary Traffic Stripe, Skip White, Paint
0750	619-A4007		1	Mile	Temporary Traffic Stripe, Skip Yellow, Paint
0760	619-D1001		1,174	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0770	619-D2001		942	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0780	619-D3001		19	Each	Remove and Reset Signs, All Sizes
0790	619-E1001		4	Each	Flashing Arrow Panel, Type C
0800	619-F1001		5,588	Linear Feet	Concrete Median Barrier, Precast
0810	619-F2001		1,000	Linear Feet	Remove and Reset Concrete Median Barrier, Precast
0820	619-G4001		526	Linear Feet	Barricades, Type III, Single Faced
0830	619-G4004		12	Linear Feet	Barricades, Type III, Single Faced, Permanent, Red/White
0840	619-G5001		162	Each	Free Standing Plastic Drums
0850	619-G7001		15	Each	Warning Lights, Type "B"
0860	619-J1003		2	Unit	Impact Attenuator, 60 MPH
0870	619-J2002		2	Unit	Impact Attenuator, 60 MPH, Replacement Package
0880	620-A001		1	Lump Sum	Mobilization
0890	627-K001		460	Each	Red-Clear Reflective High Performance Raised Markers
0900	627-L001		394	Each	Two-Way Yellow Reflective High Performance Raised Markers
0910	630-A001		109	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
0920	630-A002		224	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0930	630-B001		337	Square Feet	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Ground Mounted
0940	630-B002		2,369	Square Feet	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Overhead Mounted
0950	630-C003		378	Linear Feet	Steel U-Section Posts, 3.0 lb/ft
0960	630-D009		78	Linear Feet	Structural Steel Beams, W10 x 26
0970	630-E003		67	Pounds	Structural Steel Angles & Bars, 4" x 4" x 5/16" Angles
0980	630-E004		246	Pounds	Structural Steel Angles & Bars, 7/16" x 2 1/2" Flat Bar
0990	630-F001		55	Each	Delineators, Guard Rail, White

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1000	630-F002		23	Each	Delineators, Guard Rail, Yellow
1010	630-F006		34	Each	Delineators, Post Mounted, Single White
1020	630-F007		28	Each	Delineators, Post Mounted, Single Yellow
1030	630-F008		103	Each	Delineators, Post Mounted, Double White
1040	630-F009		21	Each	Delineators, Post Mounted, Double Yellow
1050	630-K002		252	Linear Feet	Welded & Seamless Steel Pipe Posts, 3 1/2"
1060	640-A016		8	Each	Traffic Signal Heads, Type 1 LED
1070	640-A020		1	Each	Traffic Signal Heads, Type 5R LED
1080	640-A036		3	Each	Traffic Signal Heads, Type 5L, LED
1090	640-A045		1	Each	Traffic Signal Heads, Type 3L, LED
1100	642-A001		2	Each	Solid State Traffic Actuated Controllers, Type 8M
1110	644-A001		6	Each	Optical Detector
1120	644-B001		296	Linear Feet	Optical Detector Cable
1130	644-C002		2	Each	Phase Selector, 4 Channel
1140	647-A002		2	Each	Pullbox, Type 3
1150	647-A005		1	Each	Pullbox, Type 2
1160	648-A001		2	Each	Radio Interconnect, Installed in New Controller Cabinet
1170	653-A001		18	Square Feet	Traffic Sign, Encapsulated Lens
1180	653-B001		24	Square Feet	Street Name Sign, Encapsulated Lens
1190	666-B022		250	Linear Feet	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 8, 2 Conductor
1200	666-B054		329	Linear Feet	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 14, 8 Conductor
1210	666-C017		232	Linear Feet	Electric Cable, Aerial Supported, IMSA 20-1, AWG 14, 8 Conductor
1220	668-A018		45	Linear Feet	Traffic Signal Conduit, Underground, Type 4, 2"
1230	668-A020		31	Linear Feet	Traffic Signal Conduit, Underground, Type 4, 3"
1240	668-B025		109	Linear Feet	Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe, 3"
1250	815-A009	(S)	728	Ton	Loose Riprap, Size 300
1260	815-F002	(S)	38	Ton	Sediment Control Stone
1270	907-225-A001		23	Acre	Grassing
1280	907-225-B001		12	Ton	Agricultural Limestone
1290	907-225-C001		48	Ton	Mulch, Vegetative Mulch
1300	907-226-A001		23	Acre	Temporary Grassing
1310	907-234-D001		13	Each	Inlet Siltation Guard
1320	907-237-A003		2,070	Linear Feet	Wattles, 20"
1330	907-240-A001		500	Square Yard	Interlocking Flexible Block Erosion Control System
1340	907-246-A002		500	Each	Sandbags

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1350	907-249-A001		200	Ton	Riprap for Erosion Control
1360	907-403-S004		3	Mile	Joint Sealant
1370	907-407-A001	(A2)	10,956	Gallon	Asphalt for Tack Coat
1380	907-601-B001	(S)	99	Cubic Yard	Class "B" Structural Concrete, Minor Structures, Per Plans
1390	907-603-ALT01	(S)	40	Linear Feet	18" Type A Alternate Pipe
1400	907-606-H001		4	Each	Cable Barrier Terminal Section
1410	907-619-E3001		10	Each	Changeable Message Sign
1420	907-619-L001		500	Linear Feet	Construction Safety Fence
1430	907-626-A005		2	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip White
1440	907-626-C003		4	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
1450	907-626-D005		1,068	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
1460	907-626-E006		2	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
1470	907-626-F003		2	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow
1480	907-626-G006		4,160	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
1490	907-626-G007		375	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
1500	907-626-H010		1,119	Square Feet	Thermoplastic Double Drop Legend, White
1510	907-630-I001		1	Lump Sum	Metal Overhead Sign Supports, Assembly No. 1, Contractor Designed
1520	907-630-I002		1	Lump Sum	Metal Overhead Sign Supports, Assembly No. 2, Contractor Designed
1530	907-630-I003		1	Lump Sum	Metal Overhead Sign Supports, Assembly No. 3, Contractor Designed
1540	907-639-A033		1	Each	Traffic Signal Equipment Pole, Type IV, 30' Shaft, 35' & 35' Arms
1550	907-639-A036		1	Each	Traffic Signal Equipment Pole, Type IV, 30' Shaft, 40' & 40' Arms
1560	907-639-A046		1	Each	Traffic Signal Equipment Pole, Type III, 17' Shaft, 35' & 45' Arms
1570	907-639-C002		13	Cubic Yard	Pole Foundations, 36" Diameter
1580	907-639-D001		41	Linear Feet	Slip Casing, 36" Diameter
1590	907-649-A004		6	Each	Video Detection System, 1 Sensor, Type 2
1600	907-699-A002		1	Lump Sum	Roadway Construction Stakes
1610	907-906001		1,040	Hours	Trainees [$5.00]
1615	907-829-A002	(S)	9,092	Square Feet	Ground Mounted Noise Barrier Wall, Contractor Designed
Added 08/14/2013					
					ALTERNATE GROUP AA NUMBER 1
1620	907-304-F003	(GT)	20,806	Ton	3/4" and Down Crushed Stone Base
					ALTERNATE GROUP AA NUMBER 2
1630	907-304-F004	(GT)	20,806	Ton	Size 825B Crushed Stone Base
					ALTERNATE GROUP AA NUMBER 3
1640	907-304-F002	(GT)	20,806	Ton	Size 610 Crushed Stone Base
					ALTERNATE GROUP BB NUMBER 1

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1650	907-403-A002	(BA1)	23,793	Ton	Hot Mix Asphalt, HT, 19-mm mixture
					ALTERNATE GROUP BB NUMBER 2
1660	907-403-M011	(BA1)	23,793	Ton	Warm Mix Asphalt, HT, 19-mm mixture
					ALTERNATE GROUP CC NUMBER 1
1670	907-403-A012	(BA1)	8,897	Ton	Hot Mix Asphalt, ST, 19-mm mixture
					ALTERNATE GROUP CC NUMBER 2
1680	907-403-M004	(BA1)	8,897	Ton	Warm Mix Asphalt, ST, 19-mm mixture
					ALTERNATE GROUP DD NUMBER 1
1690	907-403-D001	(BA1)	6,676	Ton	Hot Mix Asphalt, HT, 12.5-mm mixture, Polymer Modified
					ALTERNATE GROUP DD NUMBER 2
1700	907-403-P002	(BA1)	6,676	Ton	Warm Mix Asphalt, HT, 12.5-mm mixture, Polymer Modified
					ALTERNATE GROUP EE NUMBER 1
1710	907-403-D004	(BA1)	4,727	Ton	Hot Mix Asphalt, HT, 9.5-mm mixture, Polymer Modified
					ALTERNATE GROUP EE NUMBER 2
1720	907-403-P001	(BA1)	4,727	Ton	Warm Mix Asphalt, HT, 9.5-mm mixture, Polymer Modified
					Bridge Items
1730	501-K001		3,000	Square Yard	Transverse Grooving
1740	803-B002	(S)	2	Each	Conventional Static Pile Load Test [$5,000.00]
1750	803-C003	(S)	2,250	Linear Feet	16" x 16" Prestressed Concrete Piling
1760	803-I001	(S)	2	Each	PDA Test Pile
1770	803-J001	(S)	2	Each	Pile Restrike
1780	803-N001	(S)	66	Linear Feet	Exploration
1790	803-O009	(S)	600	Linear Feet	Temporary Casing, 54" Diameter
1800	805-A001	(S)	331,680	Pounds	Reinforcement
1810	813-A001	(S)	729	Linear Feet	Concrete Railing
1820	815-D001	(S)	172	Cubic Yard	Concrete Slope Paving
1830	907-803-K003	(S)	915	Linear Feet	Drilled Shaft, 54" Diameter
1840	907-803-L005	(S)	1	Each	Test Shaft, 54" Diameter
1850	907-803-M003	(S)	76	Linear Feet	Trial Shaft, 54" Diameter
1860	907-804-A001	(S)	1,352	Cubic Yard	Bridge Concrete, Class AA
1870	907-804-C252	(S)	683	Linear Feet	69' Prestressed Concrete Beam, Type BT-54
1880	907-804-C253	(S)	1,883	Linear Feet	95' Prestressed Concrete Beam, Type BT-54
1890	907-804-C254	(S)	1,053	Linear Feet	106' Prestressed Concrete Beam, Type BT-54

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
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DETAILED INDEX	DI-2	3
DETAILED INDEX	DI-3	4
GENERAL NOTES	GN-1	5
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TYPICAL SECTION - BONEY AVENUE	TS-2	7
TYPICAL SECTION - SW LEG RAMP & SE LEG RAMP	TS-3	8
TYPICAL SECTION - BIG RIDGE OFF RAMP, BIG RIDGE ON RAMP	TS-4	9
TYPICAL SECTION - I-110	TS-5	10
TYPICAL SECTION - MISCELLANEOUS DETAILS	TS-6	11
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SUMMARY OF QUANTITIES	SQS-4	16
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DREW T. DAVIS LICENSED PROFESSIONAL ENGINEER 19077 STATE OF MISSISSIPPI

VOLKERT, INC.

PS & E PLANS-DATE 6/17/13		
FMS CON. # 105281/302000		
REVISIONS		
DATE	SHEET NO.	BY
8-13-13	3-5, 13, 15-16, 19-20,	DTD
	31, 61, 127-132,	
	1007, 9032-9034	

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 11:11 AM DI_SH.DGN

BY | REVISION | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJ. NO. NHS-0010-01(145)
COUNTY: HARRISON
FILENAME: DI_SH.DGN
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

WORKING NUMBER DI-1

SHEET NUMBER 2

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

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DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
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FENCE: WOVEN WIRE - TIMBER POSTS		WW-1 6160
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DTD	BY	REVISION
8-13-13		ADDED SHEETS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJ. NO. NHS-0010-01(145)

COUNTY: HARRISON

WORKING NUMBER DI-2

SHEET NUMBER 3

FILENAME: DI_SH.DGN

DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 10:58AM DI_SH.DGN

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

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TOTAL SHEETS (278)		

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 10:59AM DI_SH.DGN

DTD	CHANGE NUMBER OF BRIDGE SHEETS	8-13-13
BY	REVISION	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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PROJ. NO. NHS-0010-01(145)
COUNTY: HARRISON

FILENAME: DI_SH.DGN
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

WORKING NUMBER
DI-3

SHEET NUMBER
4

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

GENERAL NOTES

1. A SOIL PROFILE HAS BEEN PREPARED FOR THIS PROJECT USING SAMPLES TAKEN FROM HOLES AT THE LOCATIONS INDICATED IN THE TEST REPORTS. THIS SOIL PROFILE IS ON FILE IN THE DISTRICT AND CENTRAL CONSTRUCTION OFFICES AND IS AVAILABLE FOR EXAMINATION. THE DEPARTMENT DOES NOT GUARANTEE THAT THE MATERIALS AS SHOWN IN THE REPORTS ARE NECESSARILY TO BE FOUND OUTSIDE THE TEST HOLES.

2. UTILITIES ON THE DRAWINGS ARE SHOWN IN THEIR ORIGINAL LOCATION BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. UTILITIES THAT WERE FOUND TO BE IN CONFLICT WITH CONSTRUCTION HAVE BEEN RELOCATED. PERMITS ARE ON FILE WITH THE DEPARTMENT SHOWING THE APPROXIMATE LOCATION OF UTILITIES RELOCATED WITHIN THE RIGHT-OF-WAY. THE ENGINEER CAN NOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.

3. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING GRADES AND MAKING ADJUSTMENTS AS NECESSARY WITH THE APPROVAL OF THE PROJECT ENGINEER.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES SUCH AS, BUT NOT LIMITED TO, PIPES, INLETS, APRONS, AND BRIDGES FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.

5. WORK ON STRUCTURES FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING WHAT BRACING, SHORING, OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION OR ANY STRUCTURES ADJACENT TO THE EXCAVATION. ALL COSTS FOR DESIGNING, DRAWING, AND CONSTRUCTING THE FACILITY SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.

6. REMOVAL OF RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH REQUIRED CONSTRUCTION IS NOT CONSIDERED A SEPARATE PAY ITEM. COST TO BE ABSORBED IN OTHER ITEMS BID.

7. TEMPORARY STRIPING SHALL CONFORM TO FINISHED STRIPE SPECIFICATIONS FOR ALIGNMENT, NEATNESS, AND STRAIGHTNESS.

8. FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR THOSE DESIGNATED ON THE PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.

9. THE LOCATION AND SPACING OF SIGNS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION.

10. ALL POST LENGTHS FOR SIGNS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION.

11. SOME WORK IS REQUIRED OUTSIDE THE PROJECT LIMITS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR SUCH WORK EXCEPT AS PROVIDED BY SPECIFIC PAY ITEMS INCLUDED IN THE PLANS.

12. THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE A MINIMUM REQUIREMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SILT DOES NOT LEAVE THE RIGHT OF WAY OR CONTAMINATE WATERS OF THE U. S. DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN AT THE PRE-CONSTRUCTION CONFERENCE OR PRIOR TO COMMENCEMENT OF WORK AND MAINTAIN THE PLAN DURING CONSTRUCTION. ANY ADDITIONAL SILT BASINS NOT SHOWN IN THE PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S EROSION CONTROL PLAN PRIOR TO SUBMITTING FOR APPROVAL.

13. ALL TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH PART VI OF THE MUTCD (LATEST EDITION).

14. TRAFFIC SIGNAL POLES SHALL BE DESIGNED IN ACCORDANCE WITH THE 2001 AASHTO SPECIFICATIONS, AS AMENDED. BASIC WIND SPEED FOR THIS PROJECT SHALL BE 140 MPH. DESIGN LIFE SHALL BE 50 YEARS. FATIGUE CATEGORY SHALL BE II. GALLOPING AND TRUCK INDUCED WIND LOADS SHALL NOT BE CONSIDERED. ICE LOADS FOR THIS PROJECT WILL NOT BE CONSIDERED. ANY DEVIATION FROM THESE CRITERIA MUST BE APPROVED IN WRITING BY THE TRAFFIC ENGINEERING DIVISION, 601-359-1454.

15. VOIDS CREATED BY THE REMOVAL OF, BUT NOT LIMITED TO, POSTS, CONCRETE ANCHORS, AND FOOTINGS SHALL BE BACKFILLED AND TAMPED IN ACCORDANCE WITH SECTION 203 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

16. PRIOR TO EARTHWORK OPERATIONS, THE EXISTING TOP 4" TOPSOIL IS TO BE STRIPPED AND STOCKPILED. AFTER THE GRADING OPERATIONS ARE COMPLETED, SAID TOPSOIL SHALL BE PLACED ON ALL AREAS THAT ARE NOT TO BE PAVED OR OTHERWISE PROTECTED, IN ACCORDANCE WITH SECTION 211 OF THE SPECIFICATIONS, OR THE VEGETATION SCHEDULE (SEE WK. SH. VS-1). TOPSOIL SHALL BE DRESSED VERTICALLY WITH A BULLDOZER OR OTHER TRACK EQUIPMENT AT THE TIME OF PLACEMENT. EXISTING TOPSOIL AND ALL COSTS ASSOCIATED WITH STRIPPING, HAULING, STOCKPILING, AND PLACEMENT OF THE EXISTING TOPSOIL IS TO BE ABSORBED IN OTHER EARTHWORK ITEMS.

17. ROADWAY SIGNS THAT ARE IN CONFLICT WITH CONSTRUCTION OF THIS PROJECT SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, THE COST OF WHICH SHALL BE ABSORBED IN OTHER ITEMS BID.

GENERAL NOTES (CONT.)

18. WHERE MILLING IS REQUIRED, THE CONTRACTOR SHALL PROVIDE OUTLETS IN THE EXISTING SHOULDERS AT SUFFICIENT INTERVALS TO PREVENT POOLING OR STANDING WATER ON THE MILLED SURFACE, THE COST OF WHICH SHALL BE ABSORBED IN OTHER ITEMS BID.

19. EXISTING PIPES THAT ARE TO BE ABANDONED IN PLACE SHALL BE PLUGGED WITH CONCRETE (ABSORBED ITEM).

20. ALL ITEMS OF WORK ASSOCIATED WITH THE INSTALLATION OF A CONSTRUCTION ENTRANCE SHALL BE ABSORBED IN OTHER ITEMS OF WORK.

21. THE LOCATION AND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.

22. ALL PLASTIC DRUMS SHALL HAVE A BALLASTING COLLAR MADE FROM RECYCLED TRUCK TIRES OR OTHER SUITABLE MATERIAL.

23. PRIOR TO POURING PAVED ISLANDS, THE ENGINEER SHALL BE NOTIFIED SO THAT SIGNS REQUIRED IN ISLANDS CAN BE LOCATED.

24. 25% SHRINKAGE FACTOR USED IN THE EARTHWORK CALCULATIONS IS FOR DESIGN ESTIMATING PURPOSES ONLY.

25. ALL PIPE JOINTS ARE TO BE WRAPPED IN 24-INCH WIDE TYPE V GEOTEXTILE FABRIC. ALL PICKUP HOLES SHALL BE PLUGGED AND COVERED WITH TYPE V GEOTEXTILE FABRIC , THE COST OF WHICH SHALL BE ABSORBED IN OTHER BID ITEMS.

26. FOR LIST OF PUBLIC UTILITIES, SEE WORKING NO. WK-3.

27. FULL COLLARS ARE TO BE USED AT ALL BOX CULVERT EXTENSIONS AND AT ALL BOX CULVERT CONSTRUCTION JOINTS. (SEE WK. NO. ICJ-1 FOR DETAILS

28. REMOVAL OF OBJECT MARKERS IS NOT CONSIDERED A SEPARATE PAY ITEM, AND SHALL BE ABSORBED IN OTHER ITEMS BID.

29. ERECTION DATES ARE TO BE LEGIBLY WRITTEN ON THE BACK OF ALL SIGNS WITH A SANFORD MEANSTREAK WATERPROOF FORMULA PERMANENT MARKING STICK.

30. IF COLORS ARE USED ON PLAN/PROFILE SHEETS, THEY ARE INTENDED TO VISUALLY EASE THE LOCATION OF ELEMENTS FOR USERS OF THESE DRAWINGS. ALTHOUGH THE INTENT IS TO CATEGORIZE EVERYTHING AS EITHER EXISTING OR PROPOSED, IT IS THE END USER'S RESPONSIBILITY TO ENSURE ALL ELEMENTS ARE INTERPRETED CORRECTLY REGARDLESS OF COLOR.

31. DEMOLITION OF THE EXISTING BIG RIDGE ROAD BRIDGE WILL REQUIRE CLOSURE OF I-110. CLOSURE OF I-110 WILL ONLY BE PERMITTED BETWEEN THE HOURS OF 7:00 PM AND 9:00 AM SATURDAY THROUGH SUNDAY. A LANE RENTAL FEE OF $10,000.00 PER FULL OR PARTIAL HOUR SHALL BE ASSESSED FOR CLOSURES OR OBSTRUCTIONS THAT EXTEND BEYOND THE TIMES MENTIONED ABOVE. SEE NOTICE TO BIDDERS FOR "LANE CLOSURE RESTRICTIONS" FOR MORE INFORMATION.

⚠ 32. THE FACE OF THE NOISE BARRIER WALL SHALL BE CONTRACTOR DESIGNED ACCORDING TO SPECIAL PROVISION 907-829-2. THE CONCRETE FACE OF THE NOISE BARRIER WALL SHALL HAVE A TEXTURED STONE BLCOK PATTERN FINISH. THE SIZE OF THE BLOCKS SHALL BE SIMILAR TO THE SIZE OF THE BLOCKS USED IN THE CONTRACTOR DESIGNED MSE WALL IN PROJECT NHS-0010-01(144). THE CONTRACTOR SHALL SUBMIT CATALOG-CUTS AND SPECIFICATIONS FOR THE PATTERN AND METHOD OF OBTAINING THE TEXTURED FINISH TO THE DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER FOR APPROVAL PRIOR TO PLACING CONCRETE.

DATE	REVISION	BY	DTD
8-13-13	ADDED NOTE #32		

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

PROJ. NO. NHS-0010-01(145)
COUNTY: HARRISON
FILENAME: GN_SH.DGN
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

WORKING NUMBER GN-1
SHEET NUMBER 5

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

SUMMARY OF QUANTITIES (SHEET 1)

PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL	
	*****EARTHWORK ITEMS*****				
201-A001	CLEARING AND GRUBBING	LS	100%		
202-B009	REMOVAL OF BRIDGE	EA	1		(2)
202-B041	REMOVAL OF FENCE, ALL TYPES	LF	3723		
202-B057	REMOVAL OF INLETS, ALL SIZES	EA	9		
202-B064	REMOVAL OF PIPE, 8" AND ABOVE	LF	885		
202-B071	REMOVAL OF SIGN PANELS INCLUDING HARDWARE	SF	80		(5)
202-B078	REMOVAL OF PAVEMENT, ALL TYPES AND DEPTHS	SY	21009		
202-B087	REMOVAL OF GUARD RAIL, INCLUDING RAILS, POSTS AND TERMINAL ENDS	LF	506		
202-B107	REMOVAL OF SIGN, GROUND MOUNTED WITH POSTS	EA	27		
202-B132	REMOVAL OF TRAFFIC SIGNAL	EA	1		
202-B142	REMOVAL OF JUNCTION BOX	EA	1		
202-B149	REMOVAL OF TRAFFIC STRIPE	MI	4		
202-B289	REMOVAL OF CABLE RAIL	LF	783		
203-A003	UNCLASSIFIED EXCAVATION, FM, AH	CY	60800		(1) 1
203-EX013	BORROW EXCAVATION, AH, FME, CLASS B7	CY	13334		1
206-A001	STRUCTURE EXCAVATION	CY	3356		
209-A004	GEOTEXTILE STABILIZATION, TYPE V, NON-WOVEN	SY	86756		(4)
	*****ROADSIDE DEVELOPMENT ITEMS*****				
211-A001	TOPSOIL FOR SLOPE TREATMENT, FROM RIGHT-OF-WAY	SY	82272		
212-B001	STANDARD GROUND PREPARATION	SY	1709		(6)
213-B001	COMBINATION FERTILIZER, 13-13-13	TON	1		(6)
213-C001	SUPERPHOSPHATE	TON	12		
216-A001	SOLID SODDING	SY	1709		
217-A001	DITCH LINER	SY	10000		
219-A001	WATERING	KGAL	34		
220-A001	INSECT PEST CONTROL	ACRE	12		
221-A001	PORTLAND CEMENT CONCRETE PAVED DITCH	CY	12		(9)
907-225-A001	GRASSING	ACRE	23		
907-225-B001	AGRICULTURAL LIMESTONE	TON	12		
907-225-C001	MULCH, VEGETATIVE MULCH	TON	48		
907-226-A001	TEMPORARY GRASSING	ACRE	23		
234-A001	TEMPORARY SILT FENCE	LF	9991		
907-234-D001	INLET SILTATION GUARD	EA	13		
236-A004	SILT BASIN, TYPE D	EA	1		
907-237-A003	WATTLES, 20"	LF	2070		
239-A001	TEMPORARY SLOPE DRAINS	LF	206		(3)
907-240-A001	INTERLOCKING FLEXIBLE BLOCK EROSION CONTROL SYSTEM	SY	500		
907-246-A002	SANDBAGS	EA	500		
907-249-A001	RIPRAP FOR EROSION CONTROL	TON	200		(7)
	*****ALTERNATE BASE ITEMS*****				
907-304-F003	3/4" AND DOWN CRUSHED STONE BASE	TON	20806		(8)
OR	OR				
907-304-F004	SIZE 825B CRUSHED STONE BASE	TON	20806		(8)
OR	OR				
907-304-F002	SIZE 610 CRUSHED STONE BASE	TON	20806		(8)
	*****ALTERNATE ASPHALT ITEMS*****				
907-403-A002	HOT MIX ASPHALT, HT, 19-MM MIXTURE	TON	23793		
OR	OR				
907-403-M011	WARM MIX ASPHALT, HT, 19-MM MIXTURE	TON	23793		

(1) SEE WK NO. EQ-3 FOR DETAILS.

(2) EXISTING BIG RIDGE BRIDGE LENGTH = 292 FT, 1 @ 70 FT., 2 @ 76 FT.1 @70FT.

(3) TEMPORARY BERM, RIPRAP & SUMP EXCAVATION WILL BE INCLUDED IN TEMPORARY SLOPE DRAIN. (ABSORBED ITEM)

(4) INCLUDES 428 SQ YD FOR DRAINAGE ITEMS QUANTITY, 86328 SQ YD FOR BASE AND PAVE QUANTITY.

(5) ESTIMATED QUANTITY, ACTUAL QUANTITY TO BE VERIFIED PRIOR TO REMOVAL.

(6) FOR USE WITH ITEM 216-A001 ONLY.

(7) TO BE USED FOR CHECK DAMS.

(8) INCLUDES 17330 TONS FOR ALTERNATE BASE ITEMS AND 8 TONS FOR DRIVEWAYS PLUS 20%.

(9) INCLUDES 10 CY FOR CONCRETE FLUMES AND 2 CY FOR PAVED APRON AROUND INLETS.

DTD BY	CHANGED QUANTITY REVISION	8-13-13 DATE
	1	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

PROJ. NO. NHS-0010-01(145)

COUNTY: HARRISON

FILENAME: SQS_SH.DGN

DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

WORKING NUMBER SQS-1

SHEET NUMBER 13

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 11:14:13 SQS_SH.DGN

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

SUMMARY OF QUANTITIES (SHEET 3)

PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL	
	*****INCIDENTAL CONSTRUCTION ITEMS*****				
609-D006	COMBINATION CONCRETE CURB AND GUTTER TYPE 1 MODIFIED	LF	2916		
609-D007	COMBINATION CONCRETE CURB AND GUTTER TYPE 2 MODIFIED	LF	194		
614-A002	CONCRETE DRIVEWAY, WITHOUT REINFORCEMENT, 6-INCH THICKNESS	SY	136		
615-A003	CONCRETE TYPE IV CAST-IN-PLACE MEDIAN BARRIER	LF	1214		1
615-A018	CONCRETE BRIDGE END BARRIER, 33.5"	LF	40		
616-A001	CONCRETE MEDIAN AND/OR ISLAND PAVEMENT, 4-INCH	SY	76		
616-A003	CONCRETE MEDIAN AND/OR ISLAND PAVEMENT, 10-INCH	SY	16		
618-A001	MAINTENANCE OF TRAFFIC	LS	100%		
	*****TEMPORARY TRAFFIC CONTROL ITEMS*****				
619-A1004	TEMPORARY TRAFFIC STRIPE, CONTINUOUS WHITE, PAINT	MI	3		1
619-A2004	TEMPORARY TRAFFIC STRIPE, CONTINUOUS YELLOW, PAINT	MI	3		1
619-A3007	TEMPORARY TRAFFIC STRIPE, SKIP WHITE, PAINT	MI	3		1
619-A4007	TEMPORARY TRAFFIC STRIPE, SKIP YELLOW, PAINT	MI	1		1
619-D1001	STANDARD ROADSIDE CONSTRUCTION SIGNS, LESS THAN 10 SQUARE FEET	SF	1174		
619-D2001	STANDARD ROADSIDE CONSTRUCTION SIGNS, 10 SQUARE FEET OR MORE	SF	942		
619-D3001	REMOVE AND RESET SIGNS, ALL SIZES	EA	19		
619-E1001	FLASHING ARROW PANEL, TYPE C	EA	4		
907-619-E3001	CHANGEABLE MESSAGE SIGN	EA	10		
619-F1001	CONCRETE MEDIAN BARRIER, PRECAST	LF	5588		
619-F2001	REMOVE AND RESET CONCRETE MEDIAN BARRIER, PRECAST	LF	1000		
619-G4001	BARRICADES, TYPE III, SINGLE FACED	LF	526		
619-G4004	BARRICADES, TYPE III, SINGLE FACED, PERMANENT, RED/WHITE	LF	12		
619-G5001	FREE STANDING PLASTIC DRUMS	EA	162		
619-G7001	WARNING LIGHTS, TYPE "B"	EA	15		
619-J1003	IMPACT ATTENUATOR, 60 MPH	UNIT	2		3
619-J2002	IMPACT ATTENUATOR, 60 MPH, REPLACEMENT PACKAGE	UNIT	2		3
907-619-L001	CONSTRUCTION SAFETY FENCE	LF	500		
620-A001	MOBILIZATION	LS	100%		
	*****PAVEMENT MARKING ITEMS*****				
907-626-A005	6" THERMOPLASTIC DOUBLE DROP TRAFFIC STRIPE, SKIP WHITE	MI	2		
907-626-C003	6" THERMOPLASTIC DOUBLE DROP EDGE STRIPE, CONTINUOUS WHITE	MI	4		
907-626-D005	6" THERMOPLASTIC DOUBLE DROP TRAFFIC STRIPE, SKIP YELLOW	LF	1068		
907-626-E006	6" THERMOPLASTIC DOUBLE DROP TRAFFIC STRIPE, CONTINUOUS YELLOW	MI	2		
907-626-F003	6" THERMOPLASTIC DOUBLE DROP EDGE STRIPE, CONTINUOUS YELLOW	MI	2		
907-626-G006	THERMOPLASTIC DOUBLE DROP DETAIL STRIPE, WHITE	LF	4160		
907-626-G007	THERMOPLASTIC DOUBLE DROP DETAIL STRIPE, YELLOW	LF	375		
907-626-H010	THERMOPLASTIC DOUBLE DROP LEGEND, WHITE	SF	1119		
627-K001	RED-CLEAR REFLECTIVE HIGH PERFORMANCE RAISED MARKERS	EA	460		
627-L001	TWO-WAY YELLOW REFLECTIVE HIGH PERFORMANCE RAISED MARKERS	EA	394		
	*****TRAFFIC SIGNS AND DELINEATORS*****				
630-A001	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.080" THICKNESS	SF	109		
630-A002	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.125" THICKNESS	SF	224		
630-B001	INTERSTATE DIRECTIONAL SIGNS, BOLTED EXTRUDED ALUMINUM PANELS, GROUND MOUNTED	SF	337		
630-B002	INTERSTATE DIRECTIONAL SIGNS, BOLTED EXTRUDED ALUMINUM PANELS, OVERHEAD MOUNTED	SF	2369		
630-C003	STEEL U-SECTION POSTS, 3.0 LB/FT	LF	378		2
630-D009	STRUCTURAL STEEL BEAMS, W10 X 26	LF	78		
630-E003	STRUCTURAL STEEL ANGLES & BARS, 4" X 4" X 5/16" ANGLES	LBS	67		
630-E004	STRUCTURAL STEEL ANGLES & BARS, 7/16" X 2 1/2" FLAT BAR	LBS	246		
630-F001	DELINEATORS, GUARD RAIL, WHITE	EA	55		
630-F002	DELINEATORS, GUARD RAIL, YELLOW	EA	23		
630-F006	DELINEATORS, POST MOUNTED, SINGLE WHITE	EA	34		
630-F007	DELINEATORS, POST MOUNTED, SINGLE YELLOW	EA	28		

1. ESTIMATED QUANTITY, ACTUAL QUANTITY PLACEMENT TO BE AS DIRECTED BY THE ENGINEER.
2. INCLUDES 288 LF FOR STANDARD ROADSIDE ASSEMBLIES AND 90 LF FOR DIRECTIONAL SIGN ASSEMBLIES.
3. IMPACT ATTENUATORS SHALL BE INSTALLED IF A TAPER OF THE POSITIVE BARRIER CANNOT BR PROVIDED AS SHOWN ON WK. SHEET LCD-1.

1

DTD BY	REVISION	CHANGED QUANTITY	DATE
			8-13-13

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

PROJ. NO. NHS-0010-01(145)
COUNTY: HARRISON

WORKING NUMBER SQS-3

FILENAME: SQS_SH.DGN
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

SHEET NUMBER 15

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

SUMMARY OF QUANTITIES (SHEET 4)

PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL	
630-F008	DELINEATORS, POST MOUNTED, DOUBLE WHITE	EA	103		
630-F009	DELINEATORS, POST MOUNTED, DOUBLE YELLOW	EA	21		
907-630-I001	METAL OVERHEAD SIGN SUPPORTS, ASSEMBLY NO. 1, CONTRACTOR DESIGNED	LS	100%		
907-630-I002	METAL OVERHEAD SIGN SUPPORTS, ASSEMBLY NO. 2, CONTRACTOR DESIGNED	LS	100%		
907-630-I003	METAL OVERHEAD SIGN SUPPORTS, ASSEMBLY NO. 3, CONTRACTOR DESIGNED	LS	100%		
630-K002	WELDED & SEAMLESS STEEL PIPE POSTS, 3 1/2"	LF	252		
	*****TRAFFIC SIGNAL ITEMS*****				
907-639-A033	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE IV, 30' SHAFT, 35' & 35' ARMS	EA	1		(9)
907-639-A036	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE IV, 30' SHAFT, 40' & 40' ARMS	EA	1		(9)
907-639-A046	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III, 17' SHAFT, 35' & 45' ARMS	EA	1		(9)(10)
907-639-C002	POLE FOUNDATIONS, 36" DIAMETER	CY	13		
907-639-D001	SLIP CASING, 36" DIAMETER	LF	41		
640-A016	TRAFFIC SIGNAL HEADS, TYPE 1 LED	EA	8		(1)
640-A020	TRAFFIC SIGNAL HEADS, TYPE 5R LED	EA	1		(1)
640-A036	TRAFFIC SIGNAL HEADS, TYPE 5L, LED	EA	3		(1)
640-A045	TRAFFIC SIGNAL HEADS, TYPE 3L, LED	EA	1		(1)
642-A001	SOLID STATE TRAFFIC ACTUATED CONTROLLERS, TYPE 8M	EA	2		(2)(3)(4)(8)
644-A001	OPTICAL DETECTOR	EA	6		
644-B001	OPTICAL DETECTOR CABLE	LF	296		
644-C002	PHASE SELECTOR, 4 CHANNEL	EA	2		(5)
647-A002	PULLBOX, TYPE 3	EA	2		
647-A005	PULLBOX, TYPE 2	EA	1		
648-A001	RADIO INTERCONNECT, INSTALLED IN NEW CONTROLLER CABINET	EA	2		(7)
907-649-A004	VIDEO DETECTION SYSTEM, 1 SENSOR, TYPE 2	EA	6		(6)
653-A001	TRAFFIC SIGN, ENCAPSULATED LENS	SF	18		
653-B001	STREET NAME SIGN, ENCAPSULATED LENS	SF	24		
666-B022	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG 8, 2 CONDUCTOR	LF	250		(11)
666-B054	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG 14, 8 CONDUCTOR	LF	329		
666-C017	ELECTRIC CABLE, AERIAL SUPPORTED, IMSA 20-1, AWG 14, 8 CONDUCTOR	LF	232		
668-A018	TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 2"	LF	45		
668-A020	TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 3"	LF	31		
668-B025	TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, ROLLED PIPE, 3"	LF	109		
	*****MISCELLANEOUS ITEMS*****				
907-699-A002	ROADWAY CONSTRUCTION STAKES	LS	100%		
815-A009	LOOSE RIPRAP, SIZE 300	TON	728		(12)
815-F002	SEDIMENT CONTROL STONE	TON	38		
907-829-A002	GROUND MOUNTED NOISE BARRIER WALL, CONTRACTOR DESIGNED	SF	9092		(1)

(1) SIGNAL HEAD TO BE BLACK WITH BACKPLATES.

(2) ALL CONTROLLER CABINETS SHALL HAVE A REAR DOOR AND LAPTOP TRAY.

(3) MMU AND CONTROLLERS SHALL BE ETHERNET READY AND COMPATABLE WITH MDOT'S EXISTING TRAFFIC SIGNAL MANAGEMENT SOFTWARE. CONTROLLER PAY ITEM SHALL INCLUDE A 5-SLOT PRE-WIRED CARD RACK AND 175 WATT MINIMUM POWER SUPPLY IN THE CABINET.

(4) POWER SERVICE METER SHALL NOT BE INSTALLED ON CONTROLLER CABINET OR MAST ARM POLE. IT SHALL BE INSTALLED ON A RISER AS SHOWN ON TSD-5.

(5) PHASE SELECTOR SHALL BE SECURITY CODED.

(6) VIDEO DETECTOR CABLE TO BE ABSORBED INTO PAY ITEM.

(7) RADIOS TO BE COMPATIBLE WITH EXISTING MDS TRANSNET 900 RADIO SYSTEM PRESENT AT THE MASTER (MS67@LICKSKILLET).

(8) CONTRACTOR SHALL MAKE THE APPLICATION FOR POWER SERVICE, COORDINATIONG WITH CITY OFFICALS, IN ADVANCE OF REQUIRING THE ELECTRICAL SERVICE, POWER CABLE, CONDUIT AND INCIDENTALS NECESSARY FOR POWER SUPPLY OF POWER. TO BE COST ABSORBED.

(9) SIGNAL POLES TO BE GALVANIZED.

(10) THIS POLE TO BE DESIGNED TO ACCOMMODATE A FUTURE 35' ARM FOR THE SOUTHBOUND APPROACH AT THE OFF-RAMP, INCLUDING TWO HEADS WITH BACKPLATES, AN OPTICAL DETECTOR, AND A VIDEO CAMER IN THE ANALYSIS. 35' ARM NOT TO BE INCLUDED ON THIS PROJECT.

(11) TRAFFIC SIGNAL POWER CABLE

(12) INCLUDES 180 TONS FOR TYPE D SILT BASINS AND 548 TONS FOR DRAINAGE.

1	8-13-13	ADDED QUANTITY	DTD	BY
	DATE	REVISION		

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

PROJ. NO. NHS-0010-01(145)
COUNTY: HARRISON

WORKING NUMBER SQS-4

FILENAME: SQS_SH.DGN
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

SHEET NUMBER 16

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

BRIDGE END PAVEMENT REQUIRED

WK. NO.	BRIDGE ABUT. STATION	W_1	W_2	ANGLE "Z"	33.5" RAIL	PAV'MT.	JOINT	W_B	W	A	B	REMARKS
WK-3	25+43	39.00	39.00	0.00	20	176.48	80.83	78.00	80.83	20.00	20.00	
WK-3	29+10	39.00	39.00	0.00	20	176.94	81.62	78.00	80.83	20.00	20.00	
						0.00	0.00	0.00	0.00	20.00	20.00	
						0.00	0.00	0.00	0.00	20.00	20.00	
UNITS					LIN. FT.	SQ. YDS.	LIN. FT.					
TOTALS					40	353.42	162.45					

COMBINATION CONCRETE CURB AND GUTTER REQUIRED

WK. NO.	STATION TO STATION		TYPE "1" MODIFIED	TYPE "2" MODIFIED	CONC. MEDIAN AND ISLAND PAV'T. (10" THICK.)	CONC. MEDIAN AND ISLAND PAV'T (4" THICK.)	REMARKS
LEFT SIDE							
BIG RIDGE	15+57.56	23+62.92	803				
BIG RIDGE	23+86.86	25+25.02	145				
BIG RIDGE	29+28.00	29+89.42	68				
BIG RIDGE	30+29.42	37+90.77	791				
RIGHT SIDE							
BIG RIDGE	19+57.64	23+22.51	373				
BIG RIDGE	24+28.52	25+25.00	102				
BIG RIDGE	29+27.99	29+83.39	63				
BIG RIDGE	31+43.13	31+92.48	51				
BIG RIDGE	32+15.81	35+44.57	329				
BIG RIDGE	35+88.58	36+65.89	78				
BIG RIDGE	37+09.89	37+96.18	113				
BIG RIDGE	23+93.00			58	8.0	6.9	
BIG RIDGE	30+25.00			136	7.8	69.1	
UNITS			L. F.	L. F.	SQ. YDS.	SQ. YDS.	
TOTALS			2916	194	15.8	76.0	

ESTIMATED EARTHWORK QUANTITIES ⚠1

WORK NO.	CUT	FILL	BORROW B7	UNCLASSIFIED EXCAVATION	REMARKS
WK-3,12	6270	8421			BONEY AVENUE
WK-3,4	10318	6355			I-110
WK-12	1956	15998			BIG RIDGE ROAD
WK-3,12	2435	12373			BIG RIDGE OFF RAMP
WK-3,12	4198	1617			BIG RIDGE ON RAMP
WK-4	21163	9726			SE LEG RAMP
WK-3,4	14460	7484			SW LEG RAMP
UNITS	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	
SUB-TOTAL	60800	61974			

UNCLASSIFIED = 60800		60800	
BORROW = 61974 - 60800 / 1.25			
BORROW = 13334	13334		
TOTALS:	13334	60800	

DRIVEWAYS REQUIRED

	WK. NO.	STATION	WIDTH	PAVED AREA (SQ. FT.)	EXTRA AREA (SQ. FT.)	ASPHALT 1.5",9.5mm	ASPHALT 2",12.5 mm	CONCRETE APRON (SQ. YDS.)	SIZE 825B CRUSHED STONE	REMARKS
*	WK-12	23+76	17	480.0		4.4	5.9	18.9		BIG RIDGE RD.
*	WK-12	30+09	30	1605.0		14.7	19.6	29.0		BIG RIDGE RD.
	WK-12	32+04	17	114.3	421.0	1.0	1.4		7.8	BIG RIDGE RD.
*	WK-12	35+67	24	399.0		3.7	4.9	43.7		BIG RIDGE RD.
*	WK-12	36+88	24	392.0		3.6	4.8	43.7		BIG RIDGE RD.
*	WK-12	15+96	26	1833.0		16.8	22.4			BONEY AVE.
*	WK-12	20+98	16	1527.0		14.0	18.7			BONEY AVE.
UNITS						TON	TON	SQ. YDS.	CU. YDS.	
TOTALS				6350.3	421.0	58.2	77.6	135.3	7.8	

* ASPHALT DRIVES SHALL CONSIST OF PAVEMENT LAYERS ① AND ② EXTENDING TO THE ROW LINE.

① 1.50" ASPHALT, HT, 9.5 mm MIXTURE, POLYMER MODIFIED (1 @ 1.50")
② 2.00" ASPHALT, HT, 12.5 mm MIXTURE, POLYMER MODIFIED (1 @ 2.00")

NOISE WALL REQUIRED ⚠1

WK. SHT. NO.	ALIGNMENT	STATION TO STATION	SIDE	AREA	REMARKS
WK-3	I-110	363+50 TO 371+00	RT	9092	
UNITS				SQ. FT.	
TOTALS				9092	

⚠1

DTD	BY	REVISION
8-13-13		CHANGED QUANTITY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ESTIMATED QUANTITIES

PROJ. NO. NHS-0010-01(145)
COUNTY: HARRISON
FILENAME: EQ_SH.DGN
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

WORKING NUMBER EQ-3
SHEET NUMBER 19

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 1:38 PM EQ_SH.DGN

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

GUARD RAIL REQUIRED

WK. NO.	ALIGNMENT	STATION	STATE STD. (INSTALL)	"W" Beam	Double-Faced "W" Beam	GUARD RAIL LENGTHS				CABLE ANCHOR	TERMINAL SECTION	CABLE RAIL TERMINAL SECTION	BRIDGE END SECTION		SINGLE DELINEATORS		REMARKS
						DIST. A	DIST.B	DIST. C	DIST. D	TYPE "1"			TYPE I	TYPE H	WHITE	YELLOW	
WK-3	I-110	363+70 RT	GR-4C	106.25						1	1				5		
WK-3	I-110	386+33 LT	GR-4C	127.25						1	1				5		
WK-3	I-110	387+31 RT	GR-4A			284.0	241				1			1		6	
WK-4	I-110	387+31 RT										1					
WK-4	I-110	390+26 LT										1					
WK-4	I-110	391+41 LT	GR-4A			278.0	235				1			1		6	
WK-4	I-110	391+41 LT	GR-4A			227.0	184				1			1	5		
WK-4	I-110	391+42 RT										1					
WK-4	I-110	394+33 LT										1					
WK-3	BIG RIDGE	24+58 LT	GR-4A			63.0	20				1		1		4		
WK-3	BIG RIDGE	29+10 LT	GR-4A			63.0	20				1		1		4		
WK-3	BIG RIDGE	29+10 LT	GR-4A			114.0	71				1		1		5		
WK-3	BIG RIDGE ON RAMP	385+06 LT	GR-4C	106.25						1	1					5	
WK-3	BIG RIDGE ON RAMP	382+55 LT	GR-4C		509.00					1	1				20		
WK-3	SE LEG RAMP	390+24 LT	GR-4A			284.0	241				1			1		6	
WK-3	SE LEG RAMP	391+23 RT	GR-4A	293.00						1	1				7		
UNITS				L. F.	L. F.		L. F.	L. F.	L. F.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
TOTALS				632.75	509.00		1012	0	0	5	12	4	3	4	55	23	

PERMANENT BARRICADES REQUIRED

WK SHT. NO.	ALIGNMENT	STATION	LENGTH	REMARKS
WK-12	BIG RIDGE ROAD	17+85 RT	12	TYPE III, SINGLE FACED, PERMANENT, RED/WHITE
UNITS			L.F.	
TOTALS			12	

TYPE 4 BARRIER RAIL REQUIRED ⚠1

WORK NO.	ALIGNMENT	STATION TO STATION		LENGTH	REMARKS
WK-3	I-110	363+50.000 RT	371+00.000 RT	750	SEE DETAIL ON WK. SHT. NO. TS- 8
WK-3	I-110	390+27.920 RT	391+41.721 RT	114	SEE DETAIL ON WK. SHT. NO. TS- 7
WK-3	I-110	390+26.302 LT	391+41.867 LT	116	SEE DETAIL ON WK. SHT. NO. TS- 7
WK-3	I-110	390+26.355 LT	391+41.684 LT	115	SEE DETAIL ON WK. SHT. NO. TS- 7
WK-3	SE LEG RAMP	390+24.605 LT	391+43.254 LT	119	SEE DETAIL ON WK. SHT. NO. TS- 7
UNITS				LIN. FT.	
TOTALS				1214	

FENCE REQUIRED

WORK NO.	STATION TO STATION	60" TYPE II CHAIN LINK	BARB WIRE, SINGLE STRAND	LINE POST, GALVANIZED STEEL			BRACE POST, GALVANIZED STEEL			REMARKS
				7'x1 1/2"	9'x2"	10'x2"	10'x2"	12'x2"	8'x2"	
WK-3	PROJECT LIMITS	2710	0	163	33	22	3	2	16	
UNITS		LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	
TOTALS		2710	0	163	33	22	3	2	16	

⚠1

DTD	BY	REVISION	CHANGED QUANTITY	8-13-13	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

PROJ. NO. NHS-0010-01(145)

COUNTY: HARRISON

FILENAME: EQ_SH.DGN

DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

WORKING NUMBER EQ-4

SHEET NUMBER 20

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 10:59AM EQ_SH.DGN

ADDENDUM


SHEET LAYOUT
N.T.S.
0 100 200 300
SCALE: 1" = 100'
68' LT. STA. 381+93.263
℄ I-110=
STA. 381+93.263
℄ BIG RIDGE
ON RAMP
CEDAR LAKE RD. LLC
CITY OF D'IBERVILLE
WILLIAM F. HOLMES
DIANE O'NEAL JUANICO
MARSBY H. JUMONVILLE
GEORGE MISKO
JULIE DIAZ GOLLOTT
GULF COAST GROUP
RACHEL L. WHITE ET UX
BONEY AVE
BIG RIDGE RD
CONST. LIMITS
EXISTING ROW
10' PVD. SHLDR.
BOP STA. 361+94.70
REQ'D NOISE WALL
SE LEG RAMP
BIG RIDGE OFF RAMP
BIG RIDGE ON RAMP
8' PVD. SHLDR.
3' PVD. SHLDR.
24" RCP W/ 2-24" FE
24" RCP W/ 1-24" FE
36"x23" RCAP W/ 2-36"x23" FE
2-24" RCP W/ 2-24" FE
2-PC-1
PC-1
18" RCP W/ 18" FE
24" RCP W/ 24" FE
44"x27" RCAP W/ 44"x27" FE
8' LT. STA. 381+56.040
℄ BIG RIDGE OFF RAMP=
STA. 381+56.040
℄ SE LEG RAMP
BEGIN BARRIER RAIL
STA. 361+57.10
55.14' RT
BEGIN NOISE WALL
STA. 363+50.00
62.46' RT
END NOISE WALL/
BARRIER RAIL
STA. 371+00.00
68' RT
56' RT. STA. 373+55.375
℄ I-110=
STA. 373+55.375
℄ BIG RIDGE OFF RAMP
SHIRLEY A. SANTA CRUZ
STEVEN J. & PATRICIA A. HOHN
GLEN R. & PATRICIA A. WESCOVICH
JOHN P. DUNAWAY
D'IBERVILLE WATER & SEWER
BOARD OF EDUCATION HARRISON COUNTY
CEDAR LAKE ROAD, LLC
JOHN T. TARANTO
DAVID J. TARANTO
THE MONNETTE M. MANUEL REVOCABLE TRUST
WOODMONT D'IBERVILLE
END BRIDGE STA. 29+10.000
BIG RIDGE ROAD STA. 30+40.
BIG RIDGE OFF RAMP STA. 39
MERYL R. FENDER
DB 256/PG 56
BAR. RAIL
360
365
370
375
380
385
390
I-110

UTILITIES:

BBCom Llc.
318-282-1591
Attn: Steve Walker

AT&T
228-863-0755
Attn: Carolyn Howze

Coast Electric Power Association
228-463-7316
Attn: Dale Williams

Centerpoint Energy
601-824-8052
Attn: Daniel Martin

Cable One Inc.
228-348-2431
Attn: Eddie Simmons

EROSION CONTROL ITEMS	SYMBOL
RIP RAP	
SILT FENCE	SF
SOLID SOD	
DITCH LINER	
SLOPE PAVING	
WETLANDS	
PHASE 1 CONSTRUCTION - PROJECT NO. NHS-0010-01(144)	

BONEY AVENUE PROFILE SEE SHEET WK-7
BIG RIDGE ON RAMP PROFILE SEE SHEET WK-5
BIG RIDGE OFF RAMP PROFILE SEE SHEET WK-6
FOR NOISE WALL PROFILE SEE SHEET WK-17
FOR GEOMETRIC DATA SEE SHEETS WK-15 TO WK-16
FOR ROW MARKERS SEE SHEETS DP-1 TO DP-3

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PLAN SHEET
I-110, BIG RIDGE RAMPS, & BONEY AVE

REVISION: ADDED NOISE WALL — DATE: 8-13-13 — BY: DTD

PROJ. NO.: NHS-0010-01(145)
COUNTY: HARRISON COUNTY
FILENAME: WK3_SH.DGN
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

WORKING NUMBER WK-3
SHEET NUMBER 31

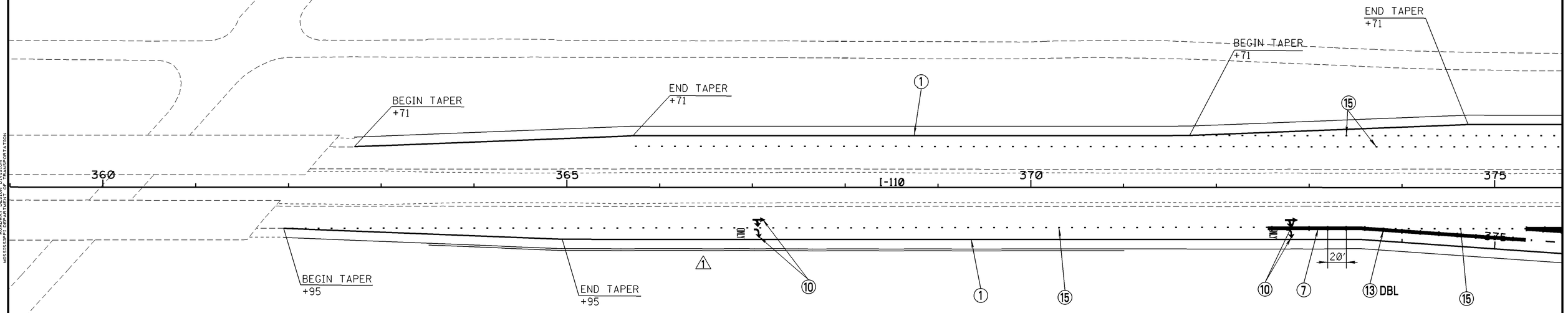
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION PLAN
8/13/2013 11:16:05 WK3_SH.DGN

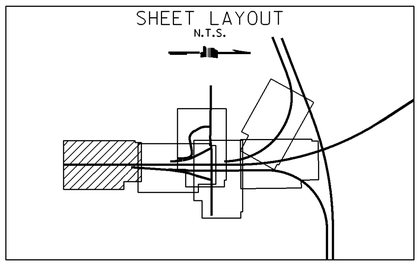
ADDENDUM

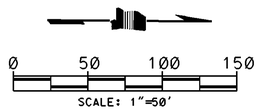
STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

LEGEND

1. 6" CONTINUOUS WHITE (DOUBLE DROP EDGE)
2. 6" CONTINUOUS YELLOW (DOUBLE DROP)
3. 6" CONTINUOUS YELLOW (DOUBLE DROP EDGE)
4. 6" DETAIL WHITE (SOLID) (DOUBLE DROP)
5. 6" DETAIL YELLOW (SOLID) (DOUBLE DROP)
6. 6" SKIP WHITE (10' STRIPE 30' GAP) (DOUBLE DROP)
7. 12" DETAIL WHITE (SOLID) (DOUBLE DROP)
8. 18" DETAIL YELLOW (SOLID) (DOUBLE DROP)
9. 24" LEGEND WHITE STOP BAR (DOUBLE DROP)
10. LEGEND WHITE (SOLID) (DOUBLE DROP)
11. 18" DETAIL WHITE (SOLID) (DOUBLE DROP)
12. 24" LEGEND WHITE YIELD BAR (DOUBLE DROP)
13. RED-CLEAR RAISED MARKERS
14. 6" SKIP YELLOW (10' STRIPE 30' GAP) (DOUBLE DROP)
15. 6" SKIP WHITE (2' STRIPE 12' GAP) (DOUBLE DROP)
16. OMITTED
17. OMITTED
18. TWO WAY YELLOW RAISED MARKERS
19. OMITTED
20. OMITTED
21. OMITTED
22. 6" SKIP WHITE (2' STRIPE 6' GAP) (DOUBLE DROP)







1 DTD ADDED NOISE WALL

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS

I-110

PROJ. NO. NHS-0010-01(145)

COUNTY: HARRISON

WORKING NUMBER PMD-1

SHEET NUMBER 61

8-13-13 DATE | DTD BY | REVISION

FILENAME: PMD1_SH.DGN

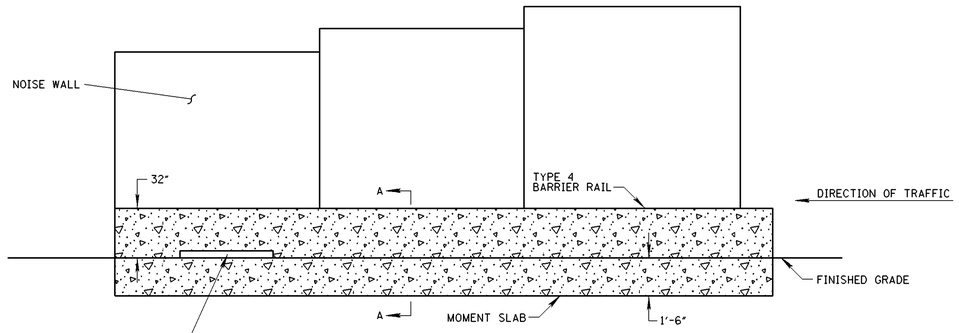
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 10:59AM PMD1_SH.DGN

ADDENDUM

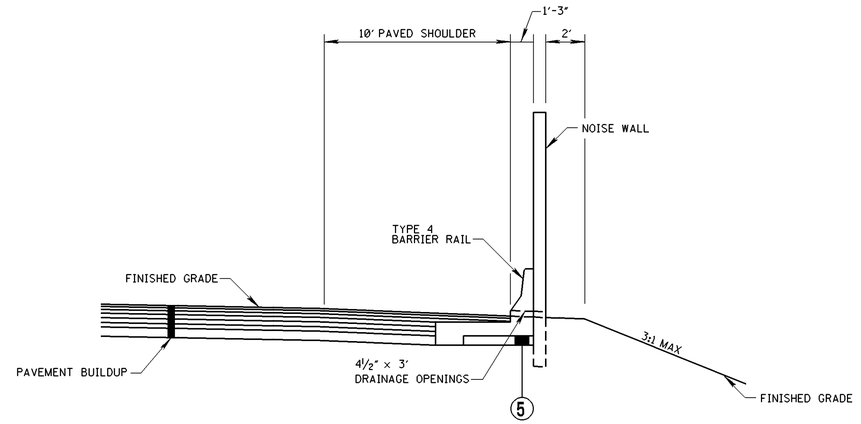
STATE	PROJECT NO.
MISS.	NHS-0010-01(145)



4½" x 5" DRAINAGE OPENINGS TO BE PLACED AT EACH SAG POINT, 50' EACH SIDE OF SAG POINTS AND AT 100' INTERVALS THEREAFTER, WHERE THE FLOW OF SURFACE WATER RUNOFF IS TOWARD THE BARRIER. REINFORCING STEEL SHALL BE ADJUSTED TO PROVIDE A 2" CLEARANCE OVER THE OPENING. OPENINGS SHALL BE PROVIDED IN THE NOISE BARRIER IN LOCATIONS THAT CORRESPOND WITH OPENINGS IN THE BARRER RAIL.

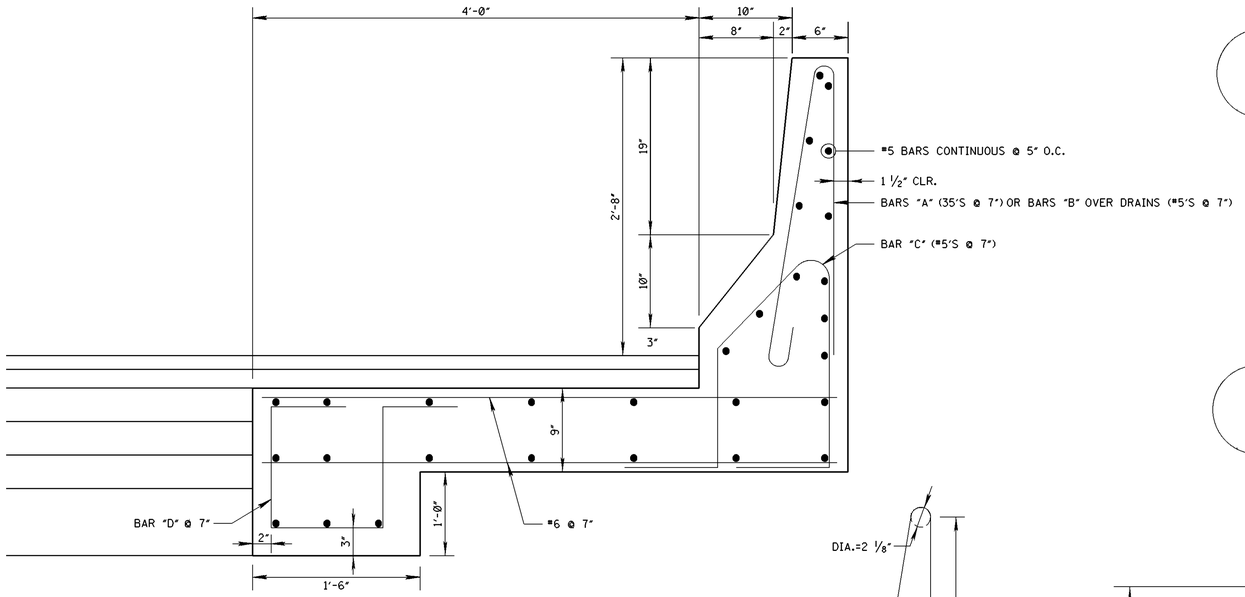
TYPE 4 BARRIER RAIL
N.T.S.

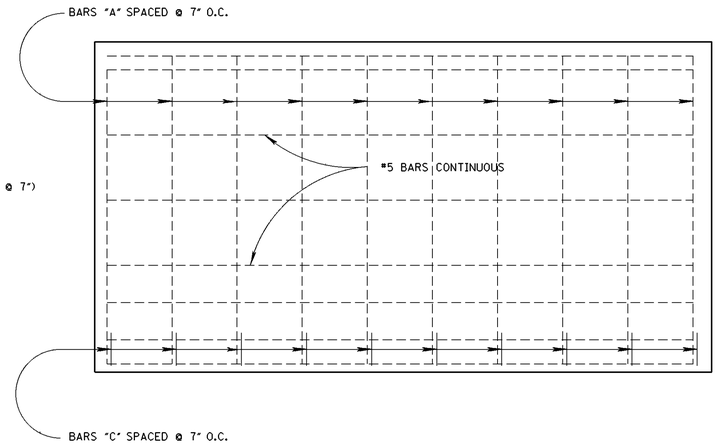
I-110
STA. 361+57.100 TO STA. 371+00.000 RT



SECTION A-A

⑤ 6.00" CRUSHED STONE BASE (825B)

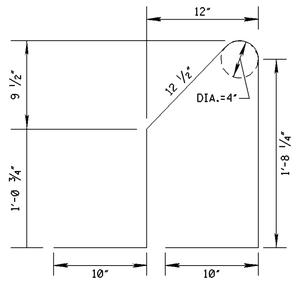




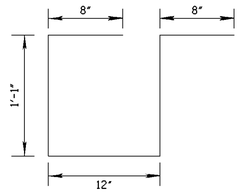
GENERAL NOTES

1. CONCRETE SHALL BE CLASS "B".
2. REINFORCING STEEL SHALL EXTEND THROUGH CONSTRUCTION JOINTS.
3. JOINTS
   A. CONSTRUCTION JOINTS REQ'D. AT 20' O.C.
      1. 3/4" CHAMFER REQ'D. FROM THE BASE TO TOP OF WALL CHAMFER MAY BE FORMED OR SCORED.
      2. LONGITUDINAL REIN. SHALL CONTINUE AT CONTRACTION JOINTS.
   B. EXPANSION JOINTS REQ'D. AT 60' O.C.
      1. 3/4" CHAMFER REQ'D. FROM THE BASE TO TOP OF WALL CHAMFER MAY BE FORMED OR SCORED.
      2. 1" X 2'-0" SMOOTH DOWELS SPACED WITH EACH HORIZONTAL BAR IN WALL. PROVIDE 1" X 1'-2" D-15 PAPER TUBING ON EACH DOWEL.
      3. EXPANSION JOINTS ARE REQ'D. TO BE EQUALLY SPACED @ 60' O.C. INTERVALS ALONG THE RAIL. JOINTS WILL BE OMITTED IN AREAS ADJACENT TO THE DRAINAGE INLETS. JOINTS IN THE MOMENT SLAB TO BE LOCATED TO COINCIDE WITH THE JOINTS IN THE RAIL.

#5'S BAR A



#5'S BAR C
(OMITTED @ DRAIN OPENINGS)



#4'S BAR "D"

NO.	DTD	BY
1		

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS DETAILS

PROJECT NO. NHS-0010-01(145)
COUNTY : HARRISON

WORKING NUMBER
TS-8

SHEET NUMBER
127

DATE	REVISION
8-13-13	ADDED THIS SHEET TO PLANS

FILENAME: TYP.DGN
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

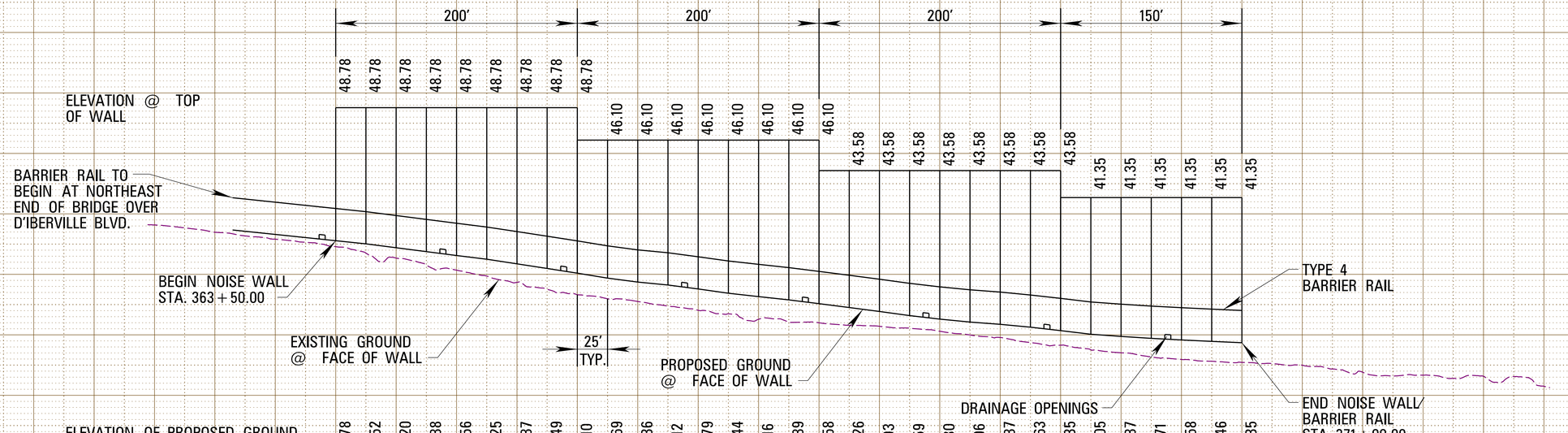
PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 10:59AM TYP_SH.DGN

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

REVISIONS	
DATE	BY
⚠ 8-13-13	DTD



ELEVATION @ TOP OF WALL	48.78	48.78	48.78	48.78	48.78	48.78	48.78	48.78	48.78	46.10	46.10	46.10	46.10	46.10	46.10	46.10	46.10	43.58	43.58	43.58	43.58	43.58	43.58	43.58	43.58	41.35	41.35	41.35	41.35	41.35	41.35
ELEVATION OF PROPOSED GROUND @ FACE OF WALL	37.78	37.52	37.20	36.88	36.56	36.25	35.87	35.49	35.10	34.69	34.36	34.12	33.79	33.44	33.16	32.89	32.58	32.26	31.93	31.59	31.30	31.06	30.87	30.63	30.35	30.05	29.87	29.71	29.58	29.46	29.35
ELEVATION OF EXIST. GROUND @ FACE OF WALL	37.08	36.03	36.15	35.48	35.08	34.53	33.95	33.50	33.21	32.96	32.54	32.24	31.83	31.30	31.32	31.05	30.88	30.76	30.58	30.45	30.11	29.85	29.53	29.17	28.95	28.62	28.38	28.08	27.87	27.73	27.72

0

NOTE:
DRAINAGE OPENINGS PLACED IN THE NOISE WALL SHALL ALIGN WITH THE DRAINAGE OPENINGS IN THE BARRIER RAIL. FOR DETAILS SEE SHEET WK TS-8.

10
5
0

0 50 100
SCALE: 1" = 50'

360+00 365+00 370+00 375+00

PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 13:25:42 WK17_SH.DGN

Wk. Sh. WK-17
Sh. No. 128

DESIGN TEAM: VOLKERT *FILENAME:* WK17_SH.DGN *COUNTY:* **HARRISON** *PROJECT NO.* **NHS-0010-01(145)** *SHEET ID:* **NOISE WALL**

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

PLATE 24

DRAWING NO.: 092434.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SITE NO.: 13-24-2138	HOLE NO.: 1	FMS P.E. NO.: 105281/101000	REPORT NO: 09-24-34
COUNTY: HARRISON	LATITUDE: N30.43925°	LONGITUDE: W88.89480°	COMPLETION DATE: 7-9-13
LOCATION: I-110 OVER D'IBERVILLE RD NOISE BARRIER WALL			WATER TABLE ELEVATION:
STATION: 363+50	OFFSET: RT 55' OF ℄ I-110 MEDIAN		COMPLETION DEPTH: 42
BORING TYPE: ROTARY WASH	LOGGED BY: ANTOINE COX		SURFACE ELEVATION: 38.3

DEPTH, ft.	SAMPLES	DESCRIPTION OF MATERIAL	ZONE	BLOWS PER FT or PENETROMETER	UNIT DRY WT. lb/cu ft	COHESION, kip/sq ft (1 2 3 4) / PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT (20 40 60 80)	ELEVATION, ft.
	S	@ 5' VERY STIFF, ORANGISH, SILTY CLAY (CL)		13			
10	S			12			28.3
	S	@ 15' HARD, ORANGISH, SANDY, SILTY CLAY (CL)		40			
20	S			61			18.3
	S	@ 25' VERY STIFF		19			
30	S	@ 30' SOFT					8.3
	S	@ 35' MEDIUM DENSE, WHITE, FINE SAND (SP)		23			
40	S			20			-1.7
		TOTAL DEPTH OF BORING - 42					
50							-11.7
60							-21.7
70							-31.7
80							-41.7
90							-51.7
100							-61.7
110							-71.7

NOTE:
A HYDRAULIC AUTOMATIC TRIP HAMMER WAS USED TO DETERMINE SPT N-VALUES. THE SPT N-VALUES SHOWN REPRESENT N_{60} VALUES

REV. 11/07 S: Split Spoon, T: Shelby Tube, C: Rock Core, P: Pitcher Sampler

PLATE:

DRAWING NO.: 092434.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SITE NO.: 13-24-2138	HOLE NO.: 2	FMS P.E. NO.: 105281/101000	REPORT NO: 09-24-34
COUNTY: HARRISON	LATITUDE: N30.43964°	LONGITUDE: W88.89479°	COMPLETION DATE: 7-9-13
LOCATION: I-110 OVER D'IBERVILLE RD NOISE BARRIER WALL			WATER TABLE ELEVATION:
STATION: 365+00	OFFSET: RT 55' OF ℄ I-110 MEDIAN		COMPLETION DEPTH: 42
BORING TYPE: ROTARY WASH	LOGGED BY: ANTOINE COX		SURFACE ELEVATION: 36.4

DEPTH, ft.	SAMPLES	DESCRIPTION OF MATERIAL	ZONE	BLOWS PER FT or PENETROMETER	UNIT DRY WT. lb/cu ft	COHESION, kip/sq ft (1 2 3 4) / PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT (20 40 60 80)	ELEVATION, ft.
	S	@ 5' VERY STIFF, ORANGISH, SANDY, SILTY CLAY (CL)		14			
10	S			3			26.4
	S			24			
20	S			16			16.4
	S	@ 25' FIRM		4			
30	S	@ 30' SOFT		W.O.H.			6.4
	S			W.O.H.			
40	S	@ 40' LOOSE, WHITE, FINE SAND (SP)		8			-3.6
		TOTAL DEPTH OF BORING - 42					
50							-13.6
60							-23.6
70							-33.6
80							-43.6
90							-53.6
100							-63.6
110							-73.6

NOTE:
A HYDRAULIC AUTOMATIC TRIP HAMMER WAS USED TO DETERMINE SPT N-VALUES. THE SPT N-VALUES SHOWN REPRESENT N_{60} VALUES

REV. 11/07 S: Split Spoon, T: Shelby Tube, C: Rock Core, P: Pitcher Sampler

PLATE:

DRAWING FILE: 092434.DGN | REPORT NO.: 09-24-34

DTD BY

ADDED SHEET TO PLANS REVISIONS

8-13-13 DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
NOISE BARRIER WALL
BORINGS 1 & 2
STATION NO.:
SITE NO: 13-24-2138
105281/302000
PROJECT NO: NH-0010-01(140)
COUNTY: HARRISON

WORKING NUMBER
NWB-1

DESIGNED: J.B.R. DETAILED: J.B.R. DRAWN: CADD
CHECKED: M.L.S. ISSUED: R.S.F. DATE: - -

SHEET NUMBER
129

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

PLATE 25

DRAWING NO.: 092434.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SITE NO.: 13-24-2138 | HOLE NO.: 3 | FMS P.E. NO.: 105281/101000 | REPORT NO: 09-24-34

COUNTY: HARRISON | LATITUDE: N30.44008° | LONGITUDE: W88.89477° | COMPLETION DATE: 7-9-13

LOCATION: I-110 OVER D'IBERVILLE RD NOISE BARRIER WALL | WATER TABLE ELEVATION:

STATION: 366+50 | OFFSET: RT 55' OF ℄ I-110 MEDIAN | COMPLETION DEPTH: 42

BORING TYPE: ROTARY WASH | LOGGED BY: ANTOINE COX | SURFACE ELEVATION: 34.5

DEPTH, ft.	SAMPLES	DESCRIPTION OF MATERIAL	ZONE	BLOWS PER FT or PENETROMETER	UNIT DRY WT. lb/cu ft	COHESION, kip/sq ft (1 2 3 4) / PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT (20 40 60 80)	ELEVATION, ft.
	S	@ 5' VERY STIFF, ORANGISH, SILTY CLAY (CL)		13			
10	S	@ 10' FIRM		3			24.5
	S	@ 15' HARD, BROWN, SANDY, SILTY CLAY (CL)		47			
20	S	@ 20' VERY STIFF, ORANGISH, SANDY, SILTY CLAY (CL)		16			14.5
	S	@ 25' SOFT		W.O.H.			
30	S	@ 30' SOFT		W.O.H.			4.5
	S	@ 35' VERY LOOSE, WHITE, FINE SAND (SP)		4			
40	S	@ 40' MEDIUM DENSE		20			-5.5
		TOTAL DEPTH OF BORING - 42					
50							-15.5
60							-25.5
70							-35.5
80							-45.5
90							-55.5
100							-65.5
110							-75.5

NOTE:
A HYDRAULIC AUTOMATIC TRIP HAMMER WAS USED TO DETERMINE SPT N-VALUES. THE SPT N-VALUES SHOWN REPRESENT N_{60} VALUES

REV. 11/07 S: Split Spoon, T: Shelby Tube, C: Rock Core, P: Pitcher Sampler

PLATE:

DRAWING NO.: 092434.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SITE NO.: 13-24-2138 | HOLE NO.: 4 | FMS P.E. NO.: 105281/101000 | REPORT NO: 09-24-34

COUNTY: HARRISON | LATITUDE: N30.44032° | LONGITUDE: W88.89479° | COMPLETION DATE: 7-10-13

LOCATION: I-110 OVER D'IBERVILLE RD NOISE BARRIER WALL | WATER TABLE ELEVATION:

STATION: 368+00 | OFFSET: RT 55' OF ℄ I-110 MEDIAN | COMPLETION DEPTH: 42

BORING TYPE: ROTARY WASH | LOGGED BY: ANTOINE COX | SURFACE ELEVATION: 32.6

DEPTH, ft.	SAMPLES	DESCRIPTION OF MATERIAL	ZONE	BLOWS PER FT or PENETROMETER	UNIT DRY WT. lb/cu ft	COHESION, kip/sq ft (1 2 3 4) / PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT (20 40 60 80)	ELEVATION, ft.
	T	@ 5' VERY HARD, ORANGISH, SILTY CLAY (CL)		4.5tsf			
10	T	@ 10' VERY STIFF		2.5tsf			22.6
	T			1.5tsf			
20	S	@ 20' SOFT		W.O.H.			12.6
	S			W.O.H.			
30	S			W.O.H.			2.6
	S	@ 35' VERY STIFF, GRAY, SANDY CLAY (CL)		21			
40	S	@ 40' LOOSE, WHITE, FINE SAND (SP)		8			-7.4
		TOTAL DEPTH OF BORING - 42					
50							-17.4
60							-27.4
70							-37.4
80							-47.4
90							-57.4
100							-67.4
110							-77.4

NOTE:
A HYDRAULIC AUTOMATIC TRIP HAMMER WAS USED TO DETERMINE SPT N-VALUES. THE SPT N-VALUES SHOWN REPRESENT N_{60} VALUES

REV. 11/07 S: Split Spoon, T: Shelby Tube, C: Rock Core, P: Pitcher Sampler

PLATE:

DRAWING FILE: 092434.DGN | REPORT NO.: 09-24-34

DTD	BY	DESCRIPTION
8-13-13		ADDED SHEET TO PLANS
DATE		REVISIONS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

NOISE BARRIER WALL

BORINGS 3 & 4

STATION NO.:

SITE NO: 13-24-2138

105281/302000

PROJECT NO: NH-0010-01(140)

COUNTY: HARRISON

WORKING NUMBER NWB-2

DESIGNED: J.B.R. | DETAILED: J.B.R. | DRAWN: CADD

CHECKED: M.L.S. | ISSUED: R.S.F. | DATE: - -

SHEET NUMBER 130

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

PLATE 26

DRAWING NO.: 092434.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SITE NO.: 13-24-2138 | HOLE NO.: 5 | FMS P.E. NO.: 105281/101000 | REPORT NO: 09-24-34

COUNTY: HARRISON | LATITUDE: N30.43970° | LONGITUDE: W88.89481° | COMPLETION DATE: 7-15-13

LOCATION: I-110 OVER D'IBERVILLE RD NOISE BARRIER WALL | WATER TABLE ELEVATION:

STATION: 365+17 | OFFSET: RT 55' OF ℄ I-110 MEDIAN | COMPLETION DEPTH: 62

BORING TYPE: ROTARY WASH | LOGGED BY: ANTOINE COX | SURFACE ELEVATION: 36.2

DEPTH, ft.	SAMPLES	DESCRIPTION OF MATERIAL	ZONE	BLOWS PER FT or PENETROMETER	UNIT DRY WT. lb/cu ft.	COHESION, kip/sq ft (1 2 3 4) / PLASTIC LIMIT + — WATER CONTENT, % ● — LIQUID LIMIT + (20 40 60 80)	ELEVATION, ft.
10							26.2
20							16.2
30							6.2
40							-3.8
	S	@ 45' MEDIUM DENSE, WHITE, FINE SAND (SP)		31			
50	S			37			-13.8
	S			33			
60	S	@ 60' MEDIUM DENSE, WHITE AND LIGHT BROWN, FINE SAND (SP)		33			-23.8
		TOTAL DEPTH OF BORING - 62					
70							-33.8
80							-43.8
90							-53.8
100							-63.8
110							-73.8

NOTE:
A HYDRAULIC AUTOMATIC TRIP HAMMER WAS USED TO DETERMINE SPT N-VALUES. THE SPT N-VALUES SHOWN REPRESENT N_{60} VALUES

REV. 11/07 S: Split Spoon, T: Shelby Tube, C: Rock Core, P: Pitcher Sampler

PLATE:

DRAWING NO.: 092434.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SITE NO.: 13-24-2138 | HOLE NO.: 6 | FMS P.E. NO.: 105281/101000 | REPORT NO: 09-24-34

COUNTY: HARRISON | LATITUDE: N30.43970° | LONGITUDE: W88.89481° | COMPLETION DATE: 7-15-13

LOCATION: I-110 OVER D'IBERVILLE RD NOISE BARRIER WALL | WATER TABLE ELEVATION:

STATION: 368+08 | OFFSET: RT 55' OF ℄ I-110 MEDIAN | COMPLETION DEPTH: 62

BORING TYPE: ROTARY WASH | LOGGED BY: ANTOINE COX | SURFACE ELEVATION: 32.5

DEPTH, ft.	SAMPLES	DESCRIPTION OF MATERIAL	ZONE	BLOWS PER FT or PENETROMETER	UNIT DRY WT. lb/cu ft.	COHESION, kip/sq ft (1 2 3 4) / PLASTIC LIMIT + — WATER CONTENT, % ● — LIQUID LIMIT + (20 40 60 80)	ELEVATION, ft.
10							22.5
20							12.5
30							2.5
40							-7.5
	S	@ 45' VERY LOOSE, WHITE, CLAYEY, FINE SAND (SC)		4			
50	S	@ 50' MEDIUM DENSE, WHITE, FINE SAND (SP)		21			-17.5
	S			20			
60	S			21			-27.5
		TOTAL DEPTH OF BORING - 62					
70							-37.5
80							-47.5
90							-57.5
100							-67.5
110							-77.5

NOTE:
A HYDRAULIC AUTOMATIC TRIP HAMMER WAS USED TO DETERMINE SPT N-VALUES. THE SPT N-VALUES SHOWN REPRESENT N_{60} VALUES

REV. 11/07 S: Split Spoon, T: Shelby Tube, C: Rock Core, P: Pitcher Sampler

PLATE:

DRAWING FILE: 092434.DGN | REPORT NO.: 09-24-34

DTD	BY	ADDED SHEET TO PLANS REVISIONS
8-13-13	DATE	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

NOISE BARRIER WALL

BORINGS 5 & 6

STATION NO.:

SITE NO: 13-24-2138

105281/302000

PROJECT NO: NH-0010-01(140)

COUNTY: HARRISON

DESIGNED: J.B.R. | DETAILED: J.B.R. | DRAWN: CADD

CHECKED: M.L.S. | ISSUED: R.S.F. | DATE: - -

WORKING NUMBER **NWB-3**

SHEET NUMBER **131**

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(145)

PLATE 27

DRAWING NO.: 092434.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SITE NO.: 13-24-2138 | HOLE NO.: 7 | FMS P.E. NO.: 105281/101000 | REPORT NO: 09-24-34

COUNTY: HARRISON | LATITUDE: N30.44092° | LONGITUDE: W88.89482° | COMPLETION DATE: 7-15-13

LOCATION: I-110 OVER D'IBERVILLE RD NOISE BARRIER WALL | WATER TABLE ELEVATION:

STATION: 369+50 | OFFSET: RT 55' OF ℄ I-110 MEDIAN | COMPLETION DEPTH: 42

BORING TYPE: ROTARY WASH | LOGGED BY: ANTOINE COX | SURFACE ELEVATION: 30.9

DEPTH, ft.	SAMPLES	DESCRIPTION OF MATERIAL	ZONE	BLOWS PER FT or PENETROMETER	UNIT DRY WT. lb/cu ft	ELEVATION, ft.
	S	@ 5' STIFF, ORANGISH, SILTY CLAY (CL)		11		
10	S	@ 10' DENSE, LIGHT BROWNISH, FINE SAND (SP) WITH SOME CLAY LAYERS		45		20.9
	S			41		
20	S	@ 20' SOFT, GRAY, SILTY CLAY (CL)		W.O.H.		10.9
	S			W.O.H.		
30	S			W.O.H.		0.9
	S	@ 35' VERY DENSE, LIGHT BROWNISH, FINE SAND (SP) WITH SOME CLAY LAYERS		74		
40	S	@ 40' VERY DENSE, LIGHT BROWNISH, MEDIUM SAND (SP)		100+		-9.1
		TOTAL DEPTH OF BORING - 42				
50						-19.1
60						-29.1
70						-39.1
80						-49.1
90						-59.1
100						-69.1
110						-79.1

COHESION, kip/sq ft: 1 2 3 4

PLASTIC LIMIT + — WATER CONTENT, % ● — LIQUID LIMIT +

20 40 60 80

NOTE:
A HYDRAULIC AUTOMATIC TRIP HAMMER WAS USED TO DETERMINE SPT N-VALUES. THE SPT N-VALUES SHOWN REPRESENT N_{60} VALUES

REV. 11/07 S: Split Spoon, T: Shelby Tube, C: Rock Core, P: Pitcher Sampler

PLATE:

DRAWING NO.: 092434.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SITE NO.: 13-24-2138 | HOLE NO.: 8 | FMS P.E. NO.: 105281/101000 | REPORT NO: 09-24-34

COUNTY: HARRISON | LATITUDE: N30.44131° | LONGITUDE: W88.89482° | COMPLETION DATE: 7-15-13

LOCATION: I-110 OVER D'IBERVILLE RD NOISE BARRIER WALL | WATER TABLE ELEVATION:

STATION: 371+00 | OFFSET: RT 55' OF ℄ I-110 MEDIAN | COMPLETION DEPTH: 42

BORING TYPE: ROTARY WASH | LOGGED BY: ANTOINE COX | SURFACE ELEVATION: 30.1

DEPTH, ft.	SAMPLES	DESCRIPTION OF MATERIAL	ZONE	BLOWS PER FT or PENETROMETER	UNIT DRY WT. lb/cu ft	ELEVATION, ft.
	S	@ 5' MEDIUM DENSE, LIGHT BROWNISH, FINE SAND (SP)		33		
10	S			21		20.1
	S			40		
20	S	@ 20' SOFT, GRAY, SILTY CLAY (CL)		W.O.H.		10.1
	S	@ 25' LAMINATED		W.O.H.		
30	S			W.O.H.		0.1
	S	@ 35' VERY DENSE, LIGHT BROWNISH, MEDIUM SAND (SP)		100+		
40	S	@ 40' MEDIUM DENSE		16		-9.9
		TOTAL DEPTH OF BORING - 42				
50						-19.9
60						-29.9
70						-39.9
80						-49.9
90						-59.9
100						-69.9
110						-79.9

COHESION, kip/sq ft: 1 2 3 4

PLASTIC LIMIT + — WATER CONTENT, % ● — LIQUID LIMIT +

20 40 60 80

NOTE:
A HYDRAULIC AUTOMATIC TRIP HAMMER WAS USED TO DETERMINE SPT N-VALUES. THE SPT N-VALUES SHOWN REPRESENT N_{60} VALUES

REV. 11/07 S: Split Spoon, T: Shelby Tube, C: Rock Core, P: Pitcher Sampler

PLATE:

DRAWING FILE: 092434.DGN | REPORT NO.: 09-24-34

DATE	BY	ADDED SHEET TO PLANS REVISIONS
8-13-13	DTD	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

NOISE BARRIER WALL

BORINGS 7 & 8

STATION NO.:

SITE NO: 13-24-2138

105281/302000

PROJECT NO: NH-0010-01(140)

COUNTY: HARRISON

DESIGNED: J.B.R. | DETAILED: J.B.R. | DRAWN: CADD

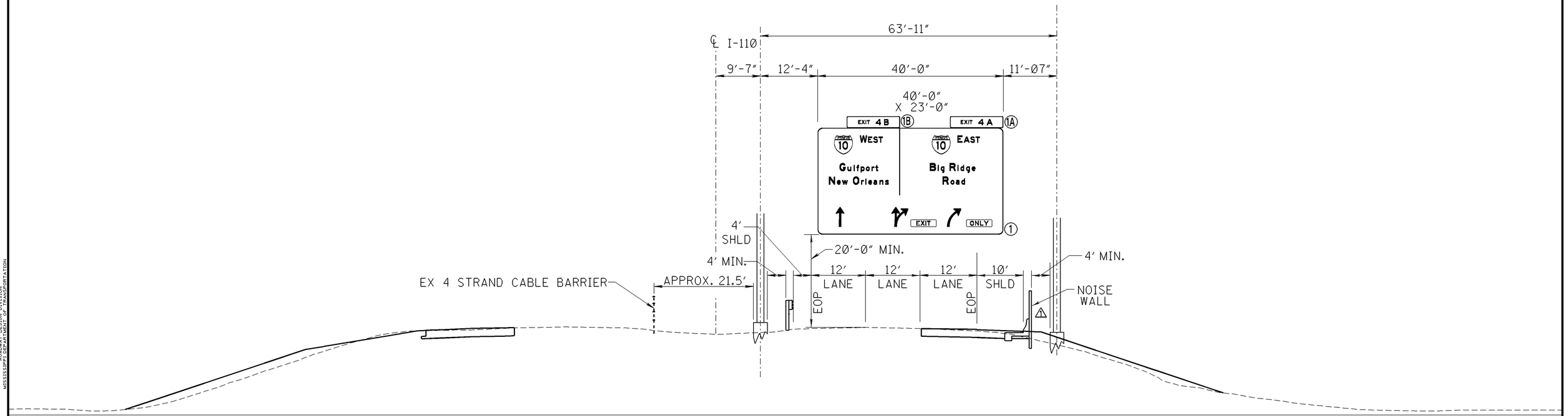
CHECKED: M.L.S. | ISSUED: R.S.F. | DATE: - -

WORKING NUMBER: NWB-4

SHEET NUMBER: 132

ADDENDUM

STATE	PROJECT NO.
MISS.	NHS-0010-01(144)



OVERHEAD SIGN ASSEMBLY #1
STA. 364+95 I-110

DTD	BY	REVISION	DATE
		ADDED NOISE WALL	8-13-13

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
OVERHEAD SIGN DETAIL

PROJECT NO. NHS-0010-01(145)
COUNTY : HARRISON

FILENAME: OH-1.DGN
DESIGN TEAM VOLKERT CHECKED DTD DATE 8/13/2013

WORKING NUMBER
OH-1

SHEET NUMBER
1007

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

8/13/2013 2:05 PM OH-1.DGN