

PROJECT:

**2015 Logan County Federal Aid Resurfacing Project
(DBE Goal = 5%, PID 95198, LOG CR 5 / VAR Resurfacing)**

PROPOSAL

**LOGAN COUNTY
BOARD OF COMMISSIONERS**

**John Bayliss
Anthony Core
Dustin Wickersham**

Letting: May 14, 2015 – 10:00 am

Submitted by: The Shelly Company

Address: 1700 Fostoria Ave., Suite 200

Post Office Box: PO Box 3100

City, State, Zip: Findlay, OH 45840

Telephone: 419.422.8854

Fax: 419.429.3429

NOTICE FOR BIDS

Notice is hereby given that bids will be received at the office of the Logan County Commissioners, 117 E. Columbus Ave., Suite 100, Bellefontaine, Ohio, 43311, May 14, 2015 at 10:00 am, Ohio Standard Time for the purpose of furnishing the **2015 RESURFACING VARIOUS COUNTY ROADS WITH ASPHALT CONCRETE (2016 Logan County Federal Aid Resurfacing Project - PID 95198, LOG CR 5 / VAR Resurfacing.**

Bids shall be submitted on forms furnished by the Logan County Engineer's Office in a sealed envelope marked "2015 Logan County Federal Aid Resurfacing Project - PID 95198" on the outside. Sealed bid shall be submitted to the Logan County Commissioner's Office at the address listed above.

By signing the specified contract proposal, of which ODOT 2013 LPA Template (ODOT Spec Book and LPA Spec Book) has been incorporated, the bidder agrees to all of the below provisions.

Bidders must be ODOT Pre-Qualified: "Work Type 10 - Flexible Paving" and shall be pre-qualified at the time of bidding, at the time of award and through the life of the construction contract. Bidders shall comply with provisions of the federal Davis Bacon prevailing wage requirements

Disadvantaged Business Enterprises (DBE) Goal is 5%.

All work, disputes, change orders and termination shall comply with the State of Ohio Department of Transportation Construction and Material Specifications dated January 1, 2013.

Bids will be furnishing labor, equipment, and materials.

Bids shall be unit price and total price.

As specified in R.C. 153.54, a bidder must submit a bid guaranty in the form of either with The Logan County Engineers Office and Ohio DOT named as obliges:

- (1) a bond for the full amount of the bid, or
- (2) a certified check, cashier's check, or letter of credit in the amount of 10% of the bid.

Bidders shall comply with the provisions of the Americans with Disabilities Act of 1990.

Bids will be awarded to the lowest and best bidder, based on the grand total of the Unit Price Bid.

The Board of Commissioners reserves the right to reject any or all bids and to waive any defects in the bids.

The Notice to Bidders is posted on the Internet and may be viewed on Logan County's web page at: www.co.logan.oh.us/commissioners/bid.htm

By Order of the Board of
Logan County Commissioners

Kacy D. Kirby, Clerk/Admin.

Posted: 04/23/15

Advertised: 04/23/15, 04/30/15 and 05/07/15

INSTRUCTIONS TO BIDDERS

DATE AND PLACE FOR OPENING PROPOSALS: Pursuant to the Legal Notice, sealed proposals for performing the work will be received by the County Commissioners of Logan County, Ohio.

At the time and place set forth in said notice, they will be publicly opened by the Clerk of the Board of Logan County Commissioners and read aloud; the awarding of the contract, if opening of the proposals.

FORM FOR PROPOSALS: All proposals shall be made upon the blank form of proposal attached hereto, and should give the lump sum price or unit prices for the work, and must be signed by the bidder in accordance with the directions in the form of proposal.

OMISSIONS AND DISCREPANCIES: Should a bidder find discrepancies in, or omissions from the drawings or other contract documents, or should he be in doubt as to their meaning, he shall at once notify the Logan County Engineer's Designee, Todd Bumgardner, who may send a written instruction to all bidders.

ACCEPTANCE OR REJECTION OF PROPOSALS: Logan County reserves the right to reject any or all proposals. Without limiting the generality of the foregoing, any proposal which is incomplete, obscure, or irregular may be rejected; any proposal in which unit prices are omitted or in which unit prices are unbalanced, may be rejected; any proposal accompanied by an insufficient or irregular bid guarantee may be rejected.

BID GUARANTEE AND PERFORMANCE BOND: Bid guarantees and performance bonds shall be in the form as specified in the Notice to Contractors.

ACCEPTANCE OF PROPOSAL: Within thirty (30) days after the opening of proposals, the Board of County Commissioners will act upon them. The acceptance of a proposal shall bind the successful bidder to execute the contract, and to be responsible for liquidated damages as provided herein. The rights and obligations provided for in the contract shall become effective and binding upon the parties only with its formal execution by the Board of Logan County Commissioners.

DAMAGES FOR FAILURE TO EXECUTE CONTRACT: Any bidder whose proposal is accepted will be required to appear in person in the office of the Board of Logan County Commissioners, or if a firm or corporation, a duly authorized representative shall so appear, and to execute the contract within ten (10) days after the notice that the contract has been awarded to him. Failure or neglect to do so shall constitute a breach of the agreement affected by the acceptance of the proposal.

COMPETITIVE BIDDER'S PERSONAL PROPERTY TAX AFFIDAVIT: All bidders must complete and attach this affidavit to each bid proposal.

The amount of the bid guarantee, as specified in Sections 153.54 (B), (C), (D) and (E) of the Ohio Revised Code, accompanying the proposal shall be retained by Logan County as liquidated damages for such breach.

TIME FOR BEGINNING AND COMPLETION: Completion date -- September 4, 2015.

PRICES: The prices are to include the furnishing of all materials, plant, tools, and all other facilities, and the performance of all labor and services necessary or proper for the completion of the work, except as may be otherwise expressly provided in the contract documents.

INTERPRETATIONS AND ADDENDA: No oral interpretations shall be made to any bidder as to the meaning of any of the contract documents, or be effective to modify any of the contract documents. Every request for an interpretation shall be made in writing and addressed to The Logan County Engineer's Designee, Todd Bumgardner, P.O. Box 427, Bellefontaine, Ohio 43311.

UNIT PRICE: The unit prices specified in the "Unit Price Bid" column will govern the awarding of the contract.

The contractor shall make the extensions in "Total Amount Bid" column, and also add up the totals. However, the unit prices specified, together with the approximate quantities shall determine the total amount of the bid. If there is an error made in the extensions by the bidder, the total shall be changed as only the unit price shall govern.

PREQUALIFICATION OF BIDDERS: Bids will be accepted only from contractors who are pre-qualified with the State of Ohio, as outlined in Section 102.01 of the Department of Transportation's Construction and Material Specifications, dated January 1, 2013.

CERTIFICATE OF COMPLIANCE FOR EEO PURPOSES: All prime contract bidders on the project shall submit together with their bid, a copy of a valid Certificate of Compliance for Equal Employment Opportunity purposes as issued by the State Equal Employment Opportunity Coordinator.

>> Copy of the Certificate of Compliance is enclosed with this bid response? Yes No <<

BIDDER'S AFFIRMATIVE ACTION REQUIREMENTS: Each prime contract bidder must submit an Affirmative Action Program regarding equal employment opportunity to and receive approval from the State Equal Employment Opportunity Coordinator prior to the bid opening, OR the prime contract bidder must evidence within its bid the adoption of the Minority Manpower Utilization Goals and Timetables set forth in "Appendix A" and the Specific Affirmative Action Steps set forth in "Appendix B" of the State Equal Employment Opportunity Bid Conditions.

>>> The prime contract bidder has prepared and submitted an Affirmative Action Program to the State Equal Employment Opportunity Coordinator and that program has been approved by the State Equal Employment Opportunity Coordinator prior to the bid opening? Yes No <<<

>>> With this bid response, the prime contract bidder hereby adopts the Minority Manpower Utilization Goals and Timetables set forth in Appendix "A" and the Specific Affirmative Action Steps set forth in Appendix "B" of the State Equal Employment Opportunity Bid Conditions? Yes No <<<

Bidder must provide a "YES" answer to one or the other of the above affirmative action alternatives.

**OFFICE OF THE
LOGAN COUNTY ENGINEER
P.O. BOX 427
1991 COUNTY ROAD 13
BELLEFONTAINE, OH 43311
www.co.logan.oh.us**

**SCOTT C. COLEMAN, P.E., P.S.
LOGAN COUNTY ENGINEER**

**Telephone: (937) 592-2791
Fax: (937) 599-2658**

Addendum #1

For

**2015 Logan County Federal Aid Resurfacing Project
(PID 95198, LOG CR 5 / VAR Resurfacing)**

April 30, 2015

Letting: May 14, 2015 @ 10:00am

- A revised bid tabulation sheet is attached reflecting changes to quantities of 301 - base, 202 - milling and Reclamite Rejuvenator units
- Page 2 of the drawings item 209 notes is to be revised to reflect two foot widening on one side of the specified roadway
- Page 3 of the drawings item 301 quantities is to be revised to reflect two foot widening on one side of the specified roadway
- The Supplemental General Conditions - Asphalt Rejuvenator item is to be revised to indicate a specified application rate of 0.08 gallons per square yard



**W. Todd Bumgardner
Administrative Coordinator**

BIDDER'S EEO COVENANTS:

Throughout its performance of any contract awarded to it on this State-assisted project, the prime contract bidder agrees to the following covenants:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry or sex. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, national origin, ancestry or sex. Such action shall include, but is not limited to, the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.
The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The contractor will in all solicitations or advertisements for employees placed by or on behalf of the prime contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry or sex.
- (3) The contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the State Administering Agency advising the said labor union or workers' representatives of the contractor's commitments under this covenant and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The contractor will comply with all provisions of the Ohio Department of Administrative Services, Division of Public Works' Regulations on Equal Employment Opportunity (hereinafter DPW Regulations) and with the implementing rules, regulations and applicable orders of the State Equal Employment Opportunity Coordinator.
- (5) The contractor agrees to fully cooperate with the State Administering Agency, the State Equal Employment Opportunity Coordinator and with any other official or agency, the State or Federal government which seeks to eliminate unlawful employment discrimination, and with all other State and Federal efforts to assure equal employment practices under its contract and the contractor shall comply promptly with all requests and directions from the State Administering Agency, the State Equal Employment Opportunity Coordinator and any of the State of Ohio officials and agencies in this regard, both before and during construction.
- (6) Full cooperation as expressed in clause (5), above, shall include, but not be limited to, being a witness and permitting employees to be witnesses and complainants in any proceeding involving questions of unlawful employment practices, furnishing all information and reports required by the DPW Regulations and by the rules, regulations and orders of the State Equal Employment Opportunity Coordinator pursuant thereto, and permitting access to its books, records, and accounts by the State Administering Agency and the State Equal Employment Opportunity Coordinator for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

- (7) In the event of the contractor's noncompliance with the nondiscrimination clauses of its contract or with any of the said rules, regulations, or orders, its contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further State Contracts or State-assisted Construction Contracts in accordance with procedures authorized in the DPW Regulations and such other sanctions may be instituted and remedies invoked, as provided in said DPW Regulations or by rule, regulation, or order of the State Equal Employment Opportunity Coordinator, or as otherwise provided by law. In the event that its contract is terminated for a material breach of DPW Regulations, the contractor shall become liable for any and all damages which shall accrue to the State Administering Agency and Applicant and the State of Ohio as a result of said breach.
- (8) The contractor will require the inclusion of language reflecting these same eight covenants within every subcontract or purchase order it executes in the performance of its contract unless exempted by rules, regulations or orders of the State Equal Employment Opportunity Coordinator issued pursuant to Section 204 of the DPW Regulations, so that these provisions will be binding upon each subcontractor or vendor. The contractor will take such actions as the Administering Agency may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in any litigation with a subcontractor, vendor or other party as a result of such direction by the State Administering Agency, the contractor may be requested to protect the interests of the State.

>>The prime contract bidder hereby adopts the foregoing covenants? Yes No <<

BIDDER'S CERTIFICATION:

The undersigned, being a duly authorized officer of the prime contract bidder, does hereby certify to and agree with the foregoing statements and covenants regarding its subscription to the State's Equal Employment Opportunity Requirements for State-assisted Construction Contracts.

Signature of Authorized Officer



Title T.A. Oberst, Vice President

Date May 14, 2015

>>>PLEASE NOTE: The bidder's failure to include the required Certificate of Compliance, elect one of the two Bidder's Affirmative Action Requirements, adopt the Bidder's EEO Covenants, and complete the foregoing certification will cause the bidder's proposal to be rejected as being non-responsive to the State's Equal Employment Opportunity Requirements and in non-compliance with the State Equal Employment Opportunity Bid Conditions.

**OHIO REVISED CODE
SECTION 3517.13**

Ohio Revised Code Section 3517.13 I(3) and J(3) requires that no agency or department of this state or any political subdivision shall enter into any contract for the purchase of goods costing more than ten thousand dollars with a corporation, individual, partnership or other unincorporated business, association, including, without limitation, a professional association organized under Chapter 1785 of the Revised Code, estate, or trust unless the contract includes a certification that the individuals named in Revised Code, estate, or trust unless the contract includes a certification that the individuals named in Revised Code Sections 3517.13 (I)(1) and (J)(1) are in compliance with the aforementioned provisions. The bidder is required to complete the affidavit provided. Failure to submit the required form with the proposal/bid package could deem the bidder's response to be non-responsive and disqualified from receiving further consideration.

**AFFIDAVIT IN COMPLIANCE WITH
SECTION 3517.13 OF THE OHIO REVISED CODE
(Corporation or Business Trust)
(R.C. 3517.13 (J)(3))**

STATE OF OHIO

COUNTY OF LOGAN

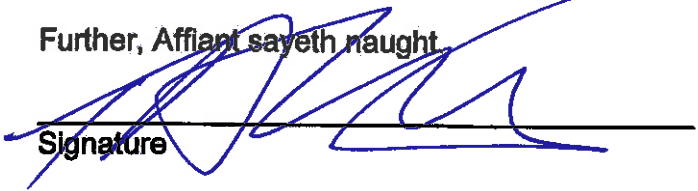
I, the undersigned, after being first duly cautioned and sworn, state the following with respect to Section 3517.13 of the Ohio Revised Code:

1. I am T.A. Oberst and I am employed as
[Name]
Vice President for The Shelly Company
[Title] [Name of Corporation/Business Trust]
2. In my position as Vice President, I have the authority
[Title]
to make the certifications contained herein on behalf
The Shelly Company
[Name of Corporation/Business Trust]
3. On behalf of the above-named Corporation/Trust, I do hereby certify that the following persons, if applicable, are in compliance with division (J)(1) of Section 3517.13 of the Ohio Revised Code:
 - (a) Each owner of more than twenty percent of the corporation or business trust;
 - (b) Each spouse of an owner of more than twenty percent of the corporation or business trust;
 - (c) Each child seven years of age to seventeen years of age of an owner of more than twenty percent of the corporation or business trust;
 - (d) Any political action committee affiliated with the corporation or business trust;
 - (e) Any combination of persons identified in (a) through (d) of this section.
4. I further certify that if the above-named Corporation/Business Trust is awarded a contract by the Board of County Commissioners of Logan County, Ohio for the purchase of goods or services costing more than ten thousand dollars, the following persons shall, beginning on the date the contract is awarded and extending until one year following the conclusion of that contract, maintain compliance with division (J) (2) of section 3517.13 of the Ohio Revised Code:
 - (a) Each owner of more than twenty percent of the corporation or business trust;

- (b) Each spouse of an owner of more than twenty percent of the corporation or business trust;
- (c) Each child seven years of age to seventeen years of age of an owner of more than twenty percent of the corporation or business trust;
- (d) Any political action committee affiliated with the corporation or business trust;
- (e) Any combination of persons identified in (a) through (d) of this section.

5. I further certify compliance with division (J)(4)(a) of Section 3517.13 of the Ohio Revised Code and that no political action committee that is affiliated with the above-named Corporation/Business Trust has made, within the two previous calendar years, one or more contributions totaling in excess of two thousand dollars to the holder of the public office having ultimate responsibility for the award of the contract or to the public officer's campaign committee, and I understand that the holder of the public office having ultimate responsibility for the award of the contract includes any member of the Board of County Commissioners of Logan County, Ohio.
6. I further certify that, in accordance with division (J) (4) (b) of Section 3517.13 of the Ohio Revised Code, if the above-named Corporation/Business Trust is awarded a contract by the Board of County Commissioners of Logan County, Ohio for the purchase of goods or services costing more than ten thousand dollars, no political action committee that is affiliated with the above-named Corporation/Business trust shall, beginning on the date the contract is awarded and extending until one year following the conclusion of that contract, make one or more contributions totaling in excess of two thousand dollars to the holder of the public office having ultimate responsibility for the award of the contract or to the public officer's campaign committee, and I understand that the holder of the public office having ultimate responsibility for the award of the contract includes any member of the Board of County Commissioners of Logan County, Ohio.
7. I do hereby acknowledge that to knowingly make any false statement herein may subject me and/or the above named Corporation/Business trust to the penalties set forth in section 3517.992 of the Ohio Revised Code.

Further, Affiant sayeth naught.

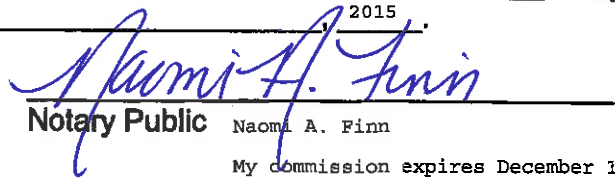


 Signature

T.A. Oberst, Vice President

 Title

Sworn to and subscribed by T.A. Oberst in my presence
 this 14th day of May, 2015



 Notary Public Naomi A. Finn
 My commission expires December 17, 2018

(j) Any combination of persons identified in (a) through (i) of this section.

5. I further certify compliance with division (I)(4)(a) of Section 3517.13 of the Ohio Revised Code and that no political action committee that is affiliated with the above-named Entity has made, within the two previous calendar years, one or more contributions totaling in excess of two thousand dollars to the holder of the public office having ultimate responsibility for the award of the contract or the public officer's campaign committee, and I understand that the holder of the public office having ultimate responsibility for the award of the contract includes any member of the Board of County Commissioners of Logan County, Ohio.
6. I further certify that, in accordance with division (I)(4)(b) of Section 3517.13 of the Ohio Revised Code, if the above-named Entity is awarded a contract by the Board of County Commissioners of Logan County, Ohio for the purchase of goods or services costing more than ten thousand dollars, no political action committee that is affiliated with the above-named Entity shall, beginning on the date the contract, make one or more contributions totaling in excess of two thousand dollars to the holder of the public office having ultimate responsibility for the award of the contract or to the public officer's campaign committee, and I understand that the holder of the public office having ultimate responsibility for the award of the contract includes any member of the Board of County Commissioners of Logan County, Ohio.
7. I do hereby acknowledge that to knowingly make any false statement herein may subject me and/or the above-named Entity to the penalties set forth in Section 3517.992 of the Ohio Revised Code.

Further, Affiant sayeth naught.

Signature

Title

Sworn to and subscribed by _____ in my presence this _____ day
of _____

Notary Public

**COMPETITIVE BIDDER'S
PERSONAL PROPERTY TAX AFFIDAVIT
LOGAN COUNTY, OHIO (R.C. 5719.042)**

STATE OF OHIO:

: ss:

LOGAN COUNTY :

The undersigned, being duly sworn, says that he is or represents a competitive bidder doing business in, or with Logan County, Ohio, and that: (Check appropriate lines)

He is a sole proprietorship doing business under his own name.

He is a sole proprietorship doing business under the name of _____

He is a general partner of the partnership known as _____

He is a duly authorized officer of the corporation named The Shelly Company

The business address of the bidder is 1700 Fostoria Ave., Suite 200, Findlay, OH 45840 ;
and the telephone is 419.422.8854 .

The undersigned further says that the bidder at the time of submitting his or its bid:

Was not charged with any delinquent personal taxes in Logan County, Ohio.

Was charged with delinquent personal property taxes as follows:

<i>YEAR</i>	<i>AMOUNT</i>	<i>PENALTY</i>	<i>INTEREST</i>
20 _____	\$ _____	\$ _____	\$ _____
20 _____	\$ _____	\$ _____	\$ _____
20 _____	\$ _____	\$ _____	\$ _____

Signed: _____

Title: T.A. Oberst, Vice President

STATE OF OHIO:
: SS:
LOGAN COUNTY :

Before me, a notary, in and for said county, personally appeared

_____ (sole proprietor doing business under his own name)

(sole proprietor doing business under the name of _____)

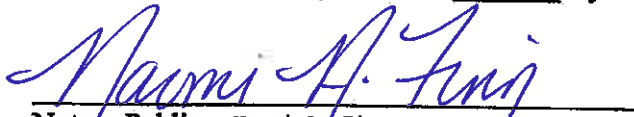
(general partner of the Partnership known as _____)

(duly authorized officer of the Corporation name T.A. Oberst),

who acknowledged that he is authorized in the premises and that his signing of this instrument is the free act and deed of himself or the organization which he represents.

In testimony whereof, I have hereunto subscribed my name and affixed my official seal at

Findlay, Ohio, this 14th day of May, 2015.



Notary Public Naomi A. Finn
My commission expires December 17, 2018

COMMISSIONERS:

_____ No delinquent taxes - file

_____ Delinquent taxes - sent to County Engineer

Clerk

WRITTEN CONTRACT

On acceptance of the proposal for said work we _____ do hereby bind myself or ourselves this 14th day of May, 2015, to enter into a written contract with the Board of Logan County Commissioners within ten (10) days from date of notice of award.

IF AN INDIVIDUAL, SIGN BELOW

Name _____ Address _____

Telephone _____

IF AN INDIVIDUAL DOING BUSINESS UNDER A TRADE NAME, SIGN BELOW:

Name _____ Address _____

Sole Owner _____ Telephone _____

IF A PARTNERSHIP, SIGN BELOW:

Name _____ Address _____

By _____ Telephone _____

Partner _____ Address _____

Partner _____ Address _____

Partner _____ Address _____

IF A CORPORATION, SIGN BELOW:

Incorporated under the laws of the State of Ohio _____

Name of Corporation The Shelly Company _____

Address 1700 Fostoria Ave., Suite 200, Findlay, OH 45840 _____

Telephone 419.422.8854 _____

By  _____

Title of Officer Signing
T.A. Oberst, Vice President

**BID GUARANTY AND
CONTRACT BOND**

(SECTION 153.571 Ohio Revised Code)

KNOW ALL BY THESE PRESENTS, that we, the undersigned THE SHELLY COMPANY

P.O. BOX 3100, FINDLAY, OH 44840

(Name and Address)

as Principal and LIBERTY MUTUAL INSURANCE COMPANY

(Name of Surety)

175 BERKELEY STREET, BOSTON, MA 02116

as Surety,

are hereby held and firmly bound unto the LOGAN COUNTY ENGINEERS OFFICE AND OHIO DEPARTMENT OF TRANSPORTATION

as Oblige in the penal sum of the dollar amount

of the bid submitted by the Principal to the Oblige on MAY 14, 2016 to undertake the project known as:

2015 LOGAN COUNTY FEDERAL AID RESURFACING PROJECT, PID 95198

The penal sum referred to herein shall be the dollar amount of the Principal's bid to the Oblige, incorporating any additive or deductive alternate proposals made by the Principal on the date referred to above to the Oblige, which are accepted by the Oblige. In no case shall the penal sum exceed the amount of dollars (\$ _____). (If the above line is left blank, the penal sum will be the full amount of the Principal's bid, including alternates. Alternatively, if completed, the amount stated must not be less than the full amount of the bid, including alternates, in dollars and cents. A percentage is not acceptable.) For the payment of the penal sum well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

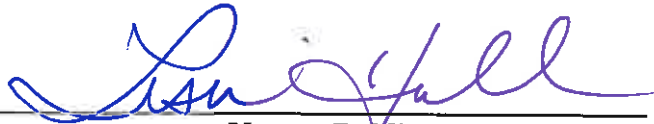
THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that whereas the above named Principal has submitted a bid on the above referred to project;

NOW, THEREFORE, if the Oblige accepts the bid of the Principal and the Principal fails to enter into a proper contract in accordance with the bid, plans, details, specifications, and bills of material; and in the event the Principal pays to the Oblige the difference not to exceed ten percent of the penalty hereof between the amount specified in the bid and such larger amount for which the Oblige may in good faith contract with the next lowest bidder to perform the work covered by the bid; or in the event the Oblige does not award the contract to the next lowest bidder and resubmits the project for bidding, the Principal will pay the Oblige the difference not to exceed ten percent of the penalty hereof between the amount specified in the bid, or the costs, in connection with the resubmission, of printing new contract documents, required advertising and printing and mailing notices to prospective bidders, whichever is less, then this obligation shall be null and void, otherwise to remain in full force and effect. If the Oblige accepts the bid of the Principal and the Principal, within ten days after the awarding of the contract, enters into a proper contract in accordance with the bid, plans, details, specifications, and bills of material, which said contract is made a part of this bond the same as though set forth herein; and

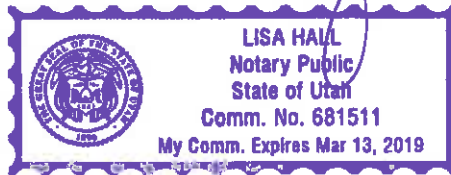
SURETY ACKNOWLEDGMENT

STATE OF UTAH }
COUNTY OF SALT LAKE }**SS**

On this 14TH day of MAY, 2015, before me personally came LINDA LEE NIPPER to me known, who, being by me duly sworn, did depose and say that she is an Attorney-In-Fact of LIBERTY MUTUAL INSURANCE COMPANY the corporation described in and which executed the within instrument; that she knows the corporate seal of said corporation, that the seal affixed to the within instrument is such corporate seal, and that she signed the said instrument and affixed the said seal as Attorney-In-Fact of the Board of Directors of said corporation and by authority of this office under the Standing Resolutions thereof.



Notary Public



THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 6905221

American Fire and Casualty Company
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Linda Lee Nipper, Lindsey Plattner, Lisa Hall, Tina Davis

all of the city of Salt Lake City, state of UT each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of March, 2015.



American Fire and Casualty Company
The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 11th day of March, 2015, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Plymouth Twp., Montgomery County
My Commission Expires March 28, 2017
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Gregory W. Davenport, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 14TH day of MAY, 2015.



By: Gregory W. Davenport
Gregory W. Davenport, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

Effective Date: April 24, 1924
Expiration Date: April 01, 2016

State of Ohio
Department of Insurance
Certificate of Authority

This is to Certify, that

LIBERTY MUTUAL INSURANCE COMPANY

NAIC No. 23043

is authorized in Ohio to transact the business of insurance as defined in the following section(s) of the Ohio Revised Code:

Section 3929.01 (A)

Accident & Health	Guaranteed Renewable A & H
Aircraft	Inland Marine
Allied Lines	Medical Malpractice
Boiler & Machinery	Multiple Peril - Commercial
Burglary & Theft	Multiple Peril - Farmowners
Collectively Renewable A & H	Multiple Peril - Homeowners
Commercial Auto - Liability	Noncancellable A & H
Commercial Auto - No Fault	Nonrenew-States Reasons (A&H)
Commercial Auto - Phys Damage	Ocean Marine
Credit	Other Accident only
Credit Accident & Health	Other Liability
Earthquake	Private Passenger Auto - Liab
Fidelity	Private Passenger Auto-Other
Financial Guaranty	Private Passenger-Phys Damage
Fire	Surety
Glass	Workers Compensation
Group Accident & Health	

This Certificate of Authority is subject to the laws of the State of Ohio.



John R. Kasich, Governor

Mary Taylor

Mary Taylor, Lt. Governor/Director



LIBERTY MUTUAL INSURANCE COMPANY
FINANCIAL STATEMENT — DECEMBER 31, 2014

Assets	Liabilities
Cash and Bank Deposits	Unearned Premiums
\$744,221,142	\$6,288,178,795
*Bonds — U.S Government	Reserve for Claims and Claims Expense
1,718,117,704	16,879,324,618
*Other Bonds	Funds Held Under Reinsurance Treaties
11,205,872,087	211,983,009
*Stocks	Reserve for Dividends to Policyholders
9,533,437,819	1,246,547
Real Estate	Additional Statutory Reserve
277,742,849	40,877,587
Agents' Balances or Uncollected Premiums	Reserve for Commissions, Taxes and
4,150,041,316	Other Liabilities
Accrued Interest and Rents	2,664,248,124
129,261,358	Total
Other Admitted Assets	\$26,085,858,680
<u>14,896,464,393</u>	Special Surplus Funds
Total Admitted Assets	\$53,954,363
<u>\$42,655,158,668</u>	Capital Stock
	10,000,000
	Paid in Surplus
	8,829,117,542
	Unassigned Surplus
	7,676,228,083
	Surplus to Policyholders
	<u>16,569,299,988</u>
	Total Liabilities and Surplus
	<u>\$42,655,158,668</u>



* Bonds are stated at amortized or investment value; Stocks at Association Market Values.
The foregoing financial information is taken from Liberty Mutual Insurance Company's financial statement filed with the state of Massachusetts Department of Insurance.

I, TIM MIKOLAJEWSKI, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the foregoing is a true, and correct statement of the Assets and Liabilities of said Corporation, as of December 31, 2014, to the best of my knowledge and belief.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Corporation at Seattle, Washington, this 20th day of March, 2015.

T. Mikolajewski

Assistant Secretary

April 27, 2015

Mr. Bob Burnside
The Shelly Company
1700 Fostoria Ave – Suite 200
Findlay, Ohio 45840

RE: Logan County LPA #95198, Federal Aid Resurfacing

Dear Bob;

In compliance with your request, Shelly Materials hereby certifies that the asphalt-concrete supplied for the above referenced project shall comply with the composition table of items 301 and 448 types-2 and 1, Ohio Department of Transportation, Construction and Materials Specification Manual.

The materials shall incorporate the use of PG binders from refinery certified stock and Ohio Department of Transportation approved aggregates as specified. As per specification, RAP/RAS may be included in these mixtures.

As per your request, I have enclosed the general JMF for these mixes.

We appreciate this opportunity to serve you. If further information is required, please don't hesitate to contact us.

Yours very truly,

SHELLY MATERIALS – Northwest Region



Gary L. Behnke, P.E.
QA/QC Manager

cc: file



MARSHALL MIX DESIGN

To: **Asphalt Materials Section
Ohio Department Of Transportation
Office of Materials Management
Testing Laboratory
1600 West Broad Street
Columbus, Ohio 43223-1928**

Submitted by			
Name:	Gary L. Behnke, PE	Date:	04/27/15
Title:	QA/QC Manager	Cert. Level:	3
Company:	Shelly Materials - NW Region	Cert. No.:	
Address:	9350 CR-313	Cert. Date:	Mar-86
City:	Findlay		
State:	Ohio		
Zip:	45840		
Phone:	(419) 429-3487	Cell:	(937) 606-0087
Fax:	(419) 420-1656	e-mail:	gbehnke@shellyco.com

For: **Project: Logan Cty - LPA #95198
County: LGN
Routes: Federal Aid Resurf.**

Material to be produced at: _____ Plant: **Shelly Materials**
Location: **Belle Center, Ohio**

Is this a New Job Mix Formula:			
Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>	
Level 3 Individual	Other Design Individual	Level 3 laboratory	
Name: G. Behnke	Name: _____	Name: Shelly Materials	
Cert. Level: 3	Cert. Level: _____	Location: Findlay, Ohio	
Cert. No.: _____	Cert. No.: _____	Initial Cert. Date: Apr-04	
Cert. Date: Mar-86	Cert. Date: _____	Last ReCert. Date: Feb-13	
Last ReCert.: Apr-13	Last ReCert.: _____		
Old Design: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
1) This design has been previously approved as JMF # _____ most recently for project # 417-14		Calibration # W-141082 41082	
2) This design has not been approved, but was submitted for approval on Project # _____			
QC program submitted for this year? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Reminder A copy of this design must be submitted to the DET			



MARSHALL MIX DESIGN

4026

Producer	Shelly Materials		
Project	Logan Cty - LPA #95198		
Spec	301	Year	2013

Mix Type: 301
 Usage: Base
 Traffic Designation: N/A
 Pay Item Number: 60
 % Binder Content @ Max. Stability: N/A
 % Binder Content @ Max. Unit Weight: N/A
 % Binder Content @ Design: 5.0
 Max. Theoretical @ Optimum: N/A
 PG Grade by Proposal: PG 64-22
 % Virgin Binder: 2.6
 Virgin Binder Grade: PG 58-28
 Binder Supplier: Mich Pvg Matl @ Monroe
 Polymer Type (SBR or-SBS): N/A
 Mixing Temperature: 295 F
 Compaction Temperature: 275 F
 F/A Ratio: N/A | N/A
 50 - 30 Ratio: N/A | N/A
 TSR Ratio: N/A | N/A
 Loaded Wheel Test Results: None

301
Base
N/A
60
N/A
N/A
5.0
N/A
PG 64-22
2.6
PG 58-28
Mich Pvg Matl @ Monroe
N/A
295 F
275 F
N/A N/A
N/A N/A
N/A N/A
None

ODOT SPEC. BAND

Sieve	% Pass	Low	High
2" (50.8)	100	100	100
1-1/2" (38.1)	100		
1" (25.4)	100	75	100
3/4" (19)	97		
1/2" (12.7)	79	50	85
3/8" (9.5)	69		
#4 (4.75)	51	25	60
#8 (2.36)	38	15	45
#16 (1.18)	28	10	35
#30 (0.6)	18		
#50 (0.3)	11	3	18
#100 (0.15)	8		
#200 (0.075)	6.0	1	7

NOTES:

Binder "bump" is not required when running WMA.

Coarse aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
30	#57	Limestone	Shelly Matls @ Belle Center	04628-01	2.611
10	#8	Limestone	Shelly Matls @ Belle Center	04628-01	2.648

Fine aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
20	Sand	Natural	Neers @ Bellefontaine	04629-01	2.610

*RAP						
%	% AC	Type		Source	Composition	Gse
		Standard	Extended			
40	6.01		RAP	ODOT #390-96	Limestone	2.720

*If RAP taken from State route, enter State route and project.

If other recycled material, or RAP taken from non-State route, enter size, type and source/location of fine and coarse aggregate, and source of information.

Blend Gsb = 2.658

For Official Use Only						
AT OPTIMUM AC CONTENT:						
Original Rc'd:	Resubmit Rc'd:	Air Voids		VMA	UnitWt	
18-Sep		N/A		N/A	(e) 2.000	(m) 2.373
Maximum Theo.	Design 2 Point Above-and-Below Optimum?			Median Air Voids		
N/A	N/A			N/A		
Date Approved	JMF			Calibration #		
9/18/2014	W-141082			41082		



MARSHALL MIX DESIGN

To: **Asphalt Materials Section
Ohio Department Of Transportation
Office of Materials Management
Testing Laboratory
1800 West Broad Street
Columbus, Ohio 43223-1928**

Submitted by			
Name:	Gary L Behnke, PE	Date:	04/27/15
Title:	QA/QC Manager - NW Division	Cert. Level:	3
Company:	Shelly Materials	Cert. No.:	
Address:	9350 CR-313	Cert. Date:	Mar-86
City:	Findlay		
State:	Ohio		
Zip:	45840		
Phone:	(419) 429-3487	Cell:	(937) 606-0087
Fax:	(419) 420-1656	e-mail:	gbehnke@shellyco.com

For: **Project: Logan Cty - LPA #95198
County: LGN
Routes: Federal Aid Resurf.**

Material to be produced at: **Plant: Shelly Materials
Location: Bella Center, Ohio**

Is this a New Job Mix Formula:			
<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No	
Level 3 Individual		Other Design Individual	
Name:	S. Swearingen	Name:	M Bailey
Cert. Level:	3	Cert. Level:	2
Cert. No.:		Cert. No.:	
Cert. Date:	May-02	Cert. Date:	Feb-14
Last ReCert.:	Apr-14	Last ReCert.:	Feb-14
Level 3 laboratory			
Name:	Shelly Materials		
Location:	Findlay, Ohio		
Initial Cert. Date:	Apr-04		
Last ReCert. Date:	Feb-13		
Old Design: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
1) This design has been previously approved as JMF #		W-140610	
most recently for project #		417-14	
2) This design has not been approved, but was submitted		Calibration #	
for approval on Project #		40610	
QC program submitted for this year?			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Reminder A copy of this design must be submitted to the DET			



MARSHALL MIX DESIGN

46607

Producer	Shelly Materials		
Project	Logan Cty - LPA #95198		
Spec	441	Year	2013

ODOT SPEC. BAND

Sieve	% Pass	Low	High
2" (50.8)	100	100	100
1-1/2" (38.1)	100	100	100
1" (25.4)	100	95	100
3/4" (19)	97	85	100
1/2" (12.7)	77	65	85
3/8" (9.5)	66		
#4 (4.75)	52	35	60
#8 (2.36)	38	25	48
#16 (1.18)	26	16	36
#30 (0.6)	17	12	30
#50 (0.3)	11	5	18
#100 (0.15)	7	2	10
#200 (0.075)	5.0		

Mix Type	Type II
Usage: (*1" for Surface)	Intermediate
Traffic Designation: (*1" if Heavy, *2" if Light)	Medium
Line Item Reference Number(s)	20
% Binder Content @ Max. Stability	4.3
% Binder Content @ Max. Unit Weight	5.8
% Binder Content @ Opt. Air Voids	5.2
Max. Theoretical @ Optimum	2.449
PG Grade by Proposal	PG 64-22
% Virgin Binder	3.3
Virgin Binder Grade	PG 64-22
Binder Supplier	Mich Pvg Mats @ Monroe
Polymer Type (SBR -or- SBS)	n/a
Mixing Temperature	310 F
Compaction Temperature	285 F
F/A Ratio	1.0 OK
50 - 30 Ratio	-3 OK
TSR Ratio	n/a OK
Loaded Wheel Test Results	n/a

NOTES:

Retained water is .08% and .08% - SSD will not be used. Binder grade change not required when using WMA.

Coarse aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
32	#57	Limestone	Shelly Mats @ Belle Center	04626-01	2.611
7	#8	Limestone	Shelly Mats @ Belle Center	04626-01	2.648

Fine aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
10	Sand	Natural	Neers @ Bellefontaine	04629-01	2.610
16	Sand	Limestone	Shelly Mats @ Belle Center	04626-01	2.677

*RAP						
%	% AC	Type		Source	Composition	Gsb
		Standard	Extended			
35	5.43		RAP	ODOT 487-03/468-02	Limestone	2.753

*If RAP taken from State route, enter State route and project.

If other recycled material, or RAP taken from non-State route, enter size, type and source/location of fine and coarse aggregate, and source of information.

Blend Gsb = 2.672

For Official Use Only						
AT OPTIMUM AC CONTENT:						
Original Rc'd:	Resubmit Rc'd:	Air Voids		VMA	UnitWt	
21-May		4.0			(e)	(m)
					1.98	
Maximum Theo.	Stability	Flow	Opt. At Median Air Voids?	2 Points Above and Below Opt.?		
2.449			X	X		
Date Approved	JMF			Calibration #		
5/22/2014	W-140610			40610		



MARSHALL MIX DESIGN

To: **Asphalt Materials Section
Ohio Department Of Transportation
Office of Materials Management
Testing Laboratory
1600 West Broad Street
Columbus, Ohio 43223-1928**

Submitted by			
Name:	Gary L Behnke, PE	Date:	04/27/15
Title:	QA/QC Manager - NW Division	Cert. Level:	3
Company:	Shelly Materials	Cert. No.:	
Address:	9350 CR-313	Cert. Date:	Mar-86
City:	Findlay	Cell:	(937) 608-0087
State:	Ohio	e-mail:	gbehnke@shellyco.com
Zip:	45840		
Phone:	(419) 429-3487		
Fax:	(419) 420-1656		

For: **Project: Logan Cty - LPA #95198
County: LGN
Routes: Federal Aid Resurf.**

Material to be produced at: **Plant: Shelly Materials
Location: Belle Center, Ohio**

Is this a New Job Mix Formula:			
Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>	
Level 3 individual	Other Design Individual	Level 3 laboratory	
Name: R Beham	Name: M Bailey	Name:	Shelly Materials
Cert. Level: 3	Cert. Level: 2	Location:	Findlay, Ohio
Cert. No.:	Cert. No.:	Initial Cert. Date:	Apr-04
Cert. Date: Jan-95	Cert. Date: Feb-14	Last ReCert. Date:	Feb-13
Last ReCert.: Apr-13	Last ReCert.: Feb-14		
Old Design: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
1) This design has been previously approved as JMF #		W-141096	
most recently for project # 417-14		Calibration # 41098	
2) This design has not been approved, but was submitted for approval on Project #			
QC program submitted for this year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Reminder A copy of this design must be submitted to the DET			



MARSHALL MIX DESIGN

41096

Producer	Shelly Materials		
Project	Logan Cty - LPA #95198		
Spec	441	Year	2013

ODOT SPEC. BAND

Sieve	% Pass	Low	High
2" (50.8)	100	100	100
1-1/2" (38.1)	100	100	100
1" (25.4)	100	100	100
3/4" (19)	100	100	100
1/2" (12.7)	100	100	100
3/8" (9.5)	93	90	100
#4 (4.75)	55	45	57
#8 (2.36)	35	30	45
#16 (1.18)	24	17	35
#30 (0.6)	15	12	25
#50 (0.3)	9	5	18
#100 (0.15)	7	2	10
#200 (0.075)	4.8		

Mix Type	Type I	
Usage: (* for Surface)	Surface	
Traffic Designation:	Medium	
(*1" # Heavy, *2" # Light)		
Line Item Reference Number(s)	30, 70, 75, 120, 150	
% Binder Content @ Max. Stability	5.4	
% Binder Content @ Max. Unit Weight	6.6	
% Binder Content @ Opt. Air Voids	6.3	
Max. Theoretical @ Optimum	2.438	
PG Grade by Proposal	PG 64-22	
% Virgin Binder	4.8	
Virgin Binder Grade	PG 64-22	
Binder Supplier	Mich Pvg Mats @ Monroe	
Polymer Type (SBR -or- SBS)	n/a	
Mixing Temperature	310 F	
Compaction Temperature	285 F	
F/A Ratio	0.8	OK
50 - 30 Ratio	-3	OK
TSR Ratio	n/a	OK
Loaded Wheel Test Results	n/a	

NOTES:

No SSD on Rice

Coarse aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
50	#8	Limestone	Shelly Mats @ Belle Center	04626-01	2.648

Fine aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
10	Sand	Natural	Neers @ Bellefontaine	04629-01	2.610
15	Sand	Limestone	Shelly Mats @ Belle Center	04626-01	2.677

*RAP						
%	% AC	Type		Source	Composition	Gse
		Standard	Extended			
25	6.01		RAP	ODOT #390-96	Limestone	2.720

*If RAP taken from State route, enter State route and project.

If other recycled material, or RAP taken from non-State route, enter size, type and source/location of fine and coarse aggregate, and source of information.

Blend Gsb = **2.688**

For Official Use Only						
AT OPTIMUM AC CONTENT:						
Original Rc'd:	Resubmit Rc'd:	Air Voids		VMA	UnitWt	
19-Sep		3.5			(g)	(m)
					1.983	
Maximum Theo.	Stability	Flow	Opt. At Median Air Voids?	2 Points Above and Below Opt.?		
2.438			X	X		
Date Approved	JMF			Calibration #		
9/23/2014	W-141096			41096		



MARSHALL MIX DESIGN

To: **Asphalt Materials Section
Ohio Department Of Transportation
Office of Materials Management
Testing Laboratory
1600 West Broad Street
Columbus, Ohio 43223-1928**

Submitted by			
Name:	Gary L Behnke, PE	Date:	04/27/15
Title:	QA/QC Manager - NW Division	Cert. Level:	3
Company:	Shelly Materials	Cert. No.:	
Address:	9350 CR-313	Cert. Date:	Mar-86
City:	Findlay	Cell:	(937) 606-0087
State:	Ohio	e-mail:	gbehnke@shellyco.com
Zip:	45840		
Phone:	(419) 429-3487		
Fax:	(419) 420-1656		

For: **Project:** Logan Cty - LPA #95198
County: LGN
Routes: Federal Aid Resurf.

Material to be produced at: Plant: Shelly Materials
 Location: Belle Center, Ohio

Is this a New Job Mix Formula:					
Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>			
Level 3 individual		Other Design Individual		Level 3 laboratory	
Name:	S. Swearingen	Name:	R Beham	Name:	Shelly Materials
Cert. Level:	3	Cert. Level:	3	Location:	Findlay, Ohio
Cert. No.:		Cert. No.:		Initial Cert. Date:	Apr-04
Cert. Date:	May-02	Cert. Date:	Jan-95	Last ReCert. Date:	Feb-15
Last ReCert.:	Apr-14	Last ReCert.:	Feb-15		
Old Design: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
1) This design has been previously approved as JMF # most recently for project # 417-14				W-140582	
				Calibration # 40582	
2) This design has not been approved, but was submitted for approval on Project #					
QC program submitted for this year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Reminder A copy of this design must be submitted to the DET					



MARSHALL MIX DESIGN

41077

Producer	Shelly Materials		
Project	Logan Cty - LPA #95198		
Spec	441	Year	2013

Mix Type	Type I	
Usage; (*1 for Surface)	Surface	
Traffic Designation: (*1 # Heavy; *2 # Light)	Medium	
Line Item Reference Number(s)	30, 70, 75, 120, 150	
% Binder Content @ Max. Stability	5.3	
% Binder Content @ Max. Unit Weight	6.7	
% Binder Content @ Opt. Air Voids	6.3	
Max. Theoretical @ Optimum	2.422	
PG Grade by Proposal	PG 64-22	
% Virgin Binder	4.9	
Virgin Binder Grade	PG 64-22	
Binder Supplier	Mich Pvg Mats @ Monroe	
Polymer Type (SBR -or- SBS)	n/a	
Mixing Temperature	310 F	
Compaction Temperature	285 F	
F/A Ratio	0.7	OK
50 - 30 Ratio	-3	OK
TSR Ratio	n/a	OK
Loaded Wheel Test Results	n/a	

ODOT SPEC. BAND

Sieve	% Pass	Low	High
2" (50.8)	100	100	100
1-1/2" (38.1)	100	100	100
1" (25.4)	100	100	100
3/4" (19)	100	100	100
1/2" (12.7)	100	100	100
3/8" (9.5)	93	90	100
#4 (4.75)	55	45	57
#8 (2.36)	35	30	45
#16 (1.18)	24	17	35
#30 (0.6)	15	12	25
#50 (0.3)	9	5	18
#100 (0.15)	6	2	10
#200 (0.075)	4.4		

NOTES:

Coarse aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
48	#8	Limestone	Shelly Mats @ Belle Center	04626-01	2.648

Fine aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
10	Sand	Natural	Neers @ Bellefontaine	04629-01	2.610
17	Sand	Limestone	Shelly Mats @ Belle Center	04626-01	2.677

*RAP						
%	% AC	Type		Source	Composition	Gse
		Standard	Extended			
25	5.43		RAP	ODOT #487-03/468-02	Limestone	2.753

*If RAP taken from State route, enter State route and project.

If other recycled material, or RAP taken from non-State route, enter size, type and source/location of fine and coarse aggregate, and source of information.

Blend Gsb = **2.674**

For Official Use Only						
AT OPTIMUM AC CONTENT:						
Original Rc'd:	Resubmit Rc'd:	Air Voids		VMA	UnitWt	
15-May		3.5			(e)	(m)
					1.971	
Maximum Theo.	Stability	Flow	Opt. At Median Air Voids?	2 Points Above and Below Opt.?		
2.422			X	X		
Date Approved	JMF			Calibration #		
5/16/2014	W-140582			40582		