

**PROJECT:**

**LOG-347-2.28**

**PROPOSAL**

**LOGAN COUNTY  
BOARD OF COMMISSIONERS**

Anthony Core  
John Bayliss  
Dustin Wickersham

**Letting – Thursday, July 31, 2014 at 1:30 P.M.**

Company \_\_\_\_\_

Submitted by \_\_\_\_\_

Street \_\_\_\_\_

Post Office \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_

## NOTICE FOR BIDS

Notice is hereby given that bids will be received at the office of the Logan County Commissioners, 117 E. Columbus Avenue, Suite 100, Bellefontaine, Ohio, 43311, July 31, 2014 at 1:30 P.M., Ohio Daylight Saving Time for the purpose of **LOG-347-2.28** according to specifications on file in the Logan County Commissioners Office.

Bids shall be submitted on forms furnished by the Logan County Engineer's Office in a sealed envelope marked "LOG-347-2.28" on the outside. Sealed bids shall be submitted to the Logan County Commissioner's Office at the address listed above.

Bidders must be ODOT Pre-Qualified: For all applicable work types and shall be pre-qualified at the time of bidding, at the time of award and through the life of the construction contract.

Bids shall have separate unit prices for all items.

Bids will be furnishing labor, equipment, and materials.

As specified in R.C. 153.54, a bidder must submit a bid guaranty in the form of either:

- (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.

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: [http://www.co.logan.oh.us/engineer/Bid\\_Documents/index.html](http://www.co.logan.oh.us/engineer/Bid_Documents/index.html).

By Order of the Board of  
Logan County Commissioners

Kacy D. Kirby, Clerk/Admin.

Posted: July 17, 2014

Advertised: July 17, 2014

## **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 awarded, will be made by the Board of Logan County Commissioners within 30 days after the 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, Bryan Dhume, 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:** The entire project except installing the proposed highway lighting shall be completed prior to the end of the day **October 31, 2014**. See plan sheet 5/22

note titled "Interim Completion Date".

**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, Harvey Grimes, 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.

## **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 \_\_\_\_\_ and I am employed as  
[Name]

\_\_\_\_\_ for \_\_\_\_\_  
[Title] [Name of Corporation/Business Trust]

2. In my position as \_\_\_\_\_, I have the authority  
[Title]

to make the certifications contained herein on behalf

\_\_\_\_\_  
[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

---

Title

Sworn to and subscribed by \_\_\_\_\_ in my presence

this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

---

Notary Public

**AFFIDAVIT IN COMPLIANCE WITH  
SECTION 3517.13 OF THE OHIO REVISED CODE  
(Individuals or Non-Corporate Entities)  
(R.C. 3517.13(1)(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 \_\_\_\_\_ and I am employed as

[Name]

\_\_\_\_\_ for \_\_\_\_\_

[Title]

[Entity]

2. In my position as \_\_\_\_\_, I have the authority

[Title]

to make the certifications contained herein on behalf of the above-named Entity.

3. On behalf of the above-named Entity, I do hereby certify that the following persons, if applicable, are in compliance with division (1)(1) of Section 3517.13 of the Ohio

Revised Code:

- (a) The individual;
- (b) Each partner or owner of the partnership or other unincorporated business;
- (c) Each shareholder of the association;

- (d) Each administrator of the estate;
- (e) Each executor of the estate;
- (f) Each trustee of the trust;
- (g) Each spouse of any person identified in (a) through (f) of this section;
- (h) Each child seven years of age to seventeen years of age of any person identified in (a) through (f) of this section;
- (i) Any political action committee affiliated with the partnership or other unincorporated business, association, estate, or trust.
- (j) Any combination of persons identified in (a) through (i) of this section.

4. I further certify that if the above-named Entity is awarded a contract by the Board of 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 (1)(2) of Section 3517.13 of the Ohio Revised Code:

- (a) The individual;
- (b) Each partner or owner of the partnership or other unincorporated business;
- (c) Each shareholder of the association;
- (d) Each administrator of the estate;
- (e) Each executor of the estate;
- (f) Each trustee of the trust;
- (g) Each spouse of any person identified in (a) through (f) of this section;

- (h) Each child seven years of age to seventeen years of age of any person identified in (a) through (f) of this section;
  - (i) Any political action committee affiliated with the partnership or other unincorporated business, association, estate, or trust.
  - (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 business address of the bidder is \_\_\_\_\_

\_\_\_\_\_ ; Telephone \_\_\_\_\_

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:

YEAR	AMOUNT	PENALTY	INTEREST
20 _____	\$ _____	\$ _____	\$ _____
20 _____	\$ _____	\$ _____	\$ _____
20 _____	\$ _____	\$ _____	\$ _____

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

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 \_\_\_\_\_),

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

\_\_\_\_\_, Ohio, this \_\_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_\_.

\_\_\_\_\_  
Notary Public

COMMISSIONERS:

\_\_\_\_\_ No delinquent taxes - file

\_\_\_\_\_ Delinquent taxes - sent to County Engineer

\_\_\_\_\_  
Clerk

**WRITTEN CONTRACT**

On acceptance of the proposal for said work \_\_\_\_\_ do hereby bind myself or ourselves this \_\_\_\_\_ day of \_\_\_\_\_, 2014, 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 \_\_\_\_\_

Name of Corporation \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_

By \_\_\_\_\_

Title of Officer Signing



## GENERAL CONDITIONS

1. \_\_\_\_\_ The Contract Documents are complementary, and what is called for by any one shall be binding as if called for by all. The intention of the documents is to include all labor and materials, equipment and transportation necessary for the completion of the work. Materials or work described in words which so applied have a well known technical or trade meaning shall be held to such standards.

The State of Ohio Department of Transportation Construction and Material Specifications as revised January 1, 2013 shall govern all items on this project except as modified in the **SUPPLEMENTAL GENERAL CONDITIONS** or in the **PLANS**.

2. \_\_\_\_\_ The following Definitions and Terms refer to the State of Ohio Department of Transportation Construction and Materials Specifications.
- a) The State: Whenever the term "The State" appears in the specifications it shall be changed to mean Logan County, acting through its authorized representatives.
  - b) Department: Whenever the term "The Department" appears on the specifications it shall be changed to mean the office of the Logan County Engineer.
  - c) Director: Whenever the term "The Director" appears in the specifications it shall be changed to mean the Logan County Engineer.
  - d) The Engineer: Whenever the word "Engineer" appears in the Contract Documents or specifications it shall mean the Logan County Engineer or his duly authorized representative.
  - e) The Laboratory: Whenever the word "Laboratory" appears in the Contract Documents or Specifications it shall mean an independent testing consultant in the employ of the County to provide testing for this project.

3. \_\_\_\_\_ The Engineer shall furnish to the Contractor free of charge, all copies of drawings and specifications necessary for the execution of the work.

4. \_\_\_\_\_ The Contractor shall provide and pay for all materials, labor, water, tools, equipment, lights, power, transportation, and other facilities necessary for the execution, and completion of the work. All materials shall be new and both workmanship and materials shall be of good quality. The Contractor shall, if required, furnish satisfactory evidence of the quality and kind of materials.

The Contractor shall at all times enforce strict discipline and good order among his employees, and shall not employ to work any unfit person or anyone not skilled in the work assigned to him.

5. \_\_\_\_\_ The Contractor shall pay all royalties and license fees. He shall defend all suits and claims for infringements of any patent rights and shall save the County harmless from loss on account thereof.

6. \_\_\_\_\_ Permits and licenses of a temporary nature necessary for the prosecution of the work shall be secured by the Contractor.  
The Contractor shall give all notices and comply with all laws, ordinances, rules, and regulations bearing on the conduct of the work as drawn and specified. If the Contractor observes that the drawings and specifications are at variance therewith, he shall promptly notify the Engineer, and any necessary change shall be adjusted as provided in the Contract for Changes in the work.

7. \_\_\_\_\_ The Contractor shall continuously maintain adequate protection on all work from damage. He shall make good such damage, injury, or loss, except as may be due to errors in the Contract Documents. He shall adequately protect adjacent property. He shall provide and maintain all passage ways, barricades, lights, and other facilities for protection required by public authority or local conditions.

In an emergency affecting the safety of life or of the work or adjoining property, the Contractor, without special instructions or authorization from the Engineer, is hereby permitted to act, at his discretion, to prevent such threatened loss or injury, and he shall so act, without appeal, if so instructed and authorized.

8. \_\_\_\_\_ The Engineer shall at all times have access to the work. If the specifications, the Engineer's instructions, or any public authority require any work to be specially tested or approved, the Contractor shall give the Engineer timely notice of its readiness for inspection. If any work should be covered up without approval or consent of the Engineer, it must, if required by the Engineer, be uncovered for examination at the Contractor's expense.

9. \_\_\_\_\_ The Contractor shall at all times keep a satisfactory superintendent on the work, who shall represent the Contractor in his absence and all directions given to him shall be as binding as if given to the Contractor.

10. \_\_\_\_\_ The County, without invalidating the Contract, subject to Section 5555.69 O.R.C., may order work or make changes by altering, adding to or deducting from the work, the Contract Amount being adjusted accordingly. All such work shall be executed under the conditions of the original contract except that any claim for extension of time caused thereby shall be adjusted at the time of ordering such change.

Except in emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the Engineer and no claim for an addition to the Contract Amount shall be valid unless so ordered.

The value of any such extra work or change shall be determined by estimate and acceptance in a lump sum or by unit prices named in the contract or subsequently agreed upon.

If the Engineer deems it expedient to correct work injured or not done in accordance with the Contract Documents, an equitable deduction from the Contract Amount shall be made therefrom.

11. \_\_\_\_\_ If the Contractor should be adjudged a bankrupt, or be in any manner financially insolvent, or if he should refuse or fail to supply properly skilled workmen or proper materials or otherwise be guilty of a substantial violation of the terms of this Contract then the County, upon written certification by the Engineer that sufficient cause exists to justify such action may without prejudice to any other remedy and after giving the Contractor seven (7) days notice, terminate the employment of the Contractor and take possession of all tools, appliances, and materials thereon, and finish the work by whatever method he may deem expedient. In such case, the Contractor shall not be entitled to receive further payment until the work is finished.

If the unpaid balance in the Contract Price shall exceed the expense of finishing the work including compensation for additional managerial services, such excess shall be paid to the Contractor. If such expense shall exceed such unpaid balance, the Contractor shall pay the difference to the County.

12. \_\_\_\_\_ If the Contractor should neglect to prosecute the work properly or fail to perform any provision of the Contract, the County, after three (3) days written notice to the Contractor, may without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor.

13. \_\_\_\_\_ If the work should be stopped under an order of any court or other public authority for a period of three (3) months through no act or fault of the Contractor or of anyone employed by him, or if the Engineer should fail to issue any estimate within fourteen (14) days after it is due, or if the County should fail to pay the Contractor within fourteen (14) days of its maturity and presentation, any sum certified by the Engineer or awarded by arbitrators, then the Contractor may, upon seven (7) days written notice, terminate the Contract and recover from the County payment for all work executed and any loss sustained upon any materials and reasonable profit.

14. \_\_\_\_\_ The County may withhold or, on account of subsequently discovered evidence, nullify the whole or a part of any certificate to such extent as may be necessary to protect itself from loss on account of:

- (A) Defective work not remedied.
- (B) Claims filed or evidence indicating probable filing.
- (C) Failure of the Contractor to pay bills.
- (D) Doubt that the Contract can be completed for the balance then unpaid.

When above grounds are removed payment shall be made for amounts withheld on account of them.

15. \_\_\_\_\_ The Contractor shall indemnify and save harmless the County from and against all losses and all claims, demands, payments, suits, actions, recoveries and judgments of every nature and description brought or recovered against the County, by reason or any act or omission of the said Contractor, his agents or employees, in the execution of the work or in the guarding of it.

16. \_\_\_\_\_ The Contractor shall maintain workers' compensation coverage as required by Ohio law.
17. \_\_\_\_\_ The Contractor shall not assign the contract or sublet it as a whole without the written consent of the County.
18. \_\_\_\_\_ The Contractor shall carefully preserve bench marks, reference points and stakes, and in case of willful or careless destruction, he shall be charged with the resulting expense.
19. \_\_\_\_\_ The Engineer shall have general supervision and direction of the work. He has authority to stop the work whenever such stoppage may be necessary to insure the proper execution of the Contract. He shall also have the authority to reject all work and materials which do not conform to the Contract, to direct the application of forces to any part of the work, to order the force increased or diminished, and to decide questions which arise in the execution of the work.
20. \_\_\_\_\_ The Contractor shall, as directed by the Engineer, remove from public and private property, at his expense, all temporary structures, rubbish and waste materials resulting from his operations.
21. \_\_\_\_\_ The Contractor will be expected to pay the State prevailing minimum wage to all labor employed on this project as ascertained and determined for Logan County, Ohio. A copy of the said prevailing minimum wage is attached.
22. \_\_\_\_\_ For each calendar day that any work shall remain uncompleted after the contract completion date, the liquidated damages, as described in 108 of the State of Ohio, Department of Highway's Materials and Specifications, dated January 1, 2013 may be imposed.
23. \_\_\_\_\_ The Contractor will comply with Sections 153.59 and 153.60 O.R.C., Discrimination and Intimidation on Account of Race, Creed, or Color, and Forfeiture, when performing the work on this project.
24. \_\_\_\_\_ Logan County and the Logan County Engineer will not waive subrogation rights.
25. \_\_\_\_\_ The contractor shall maintain commercial general liability insurance with a limit of not less than \$1,000,000 each occurrence. The county, its elected officials and employees, shall be named as additional insureds with respect to all activities under this agreement.
26. \_\_\_\_\_ The contractor shall maintain automobile liability insurance with a limit of not less than \$1,000,000 each incident. Such insurance shall include coverage for owned, hired, and non-owned automobiles.
27. \_\_\_\_\_ Prior to the commencement of any work under this agreement, the contractor shall furnish the County with properly executed certificates of insurance for all insurance required by this agreement. Certificates of insurance shall provide that such insurance shall not be cancelled without 30 days prior written notice to the County. The Contractor will replace certificates for any insurance expiring prior to completion of work under this agreement.

## **SUPPLEMENTAL GENERAL CONDITIONS**

### **ENUMERATION OF PLANS, SPECIFICATIONS, STANDARD DRAWINGS AND ADDENDA**

Following are the Plans, Specifications, Standard Drawings and Addenda which form a part of this contract, as set forth in Article I of the General Contract Conditions, "Contract and Contract Documents".

#### **Plan Drawings**

Plan Package Attached

The above plans were prepared by the Ohio Dept. of Transportation - District 7.

#### **Specifications**

O.D.O.T. Construction and Materials Specifications, dated January 1, 2013.

#### **Standard Drawings**

O.D.O.T. Standard Construction Drawings as noted in the plans

**RECIPIENTS OF NOTICE FOR BIDS**

**LOG-347-2.28**

The Shelly Company  
Attn: Bryan Karhoff  
1700 Fostoria Avenue  
Suite 200  
PO Box 3100  
Findlay, OH 45840

LeVan's Excavating, Inc.  
4198 U.S. 68  
West Liberty, OH 43357  
937-599-2535

McGraw Hill-Dodge Reports  
950 Contract St., Suite 100A  
Lexington, KY 40505  
800-393-6343 (phone)  
800-625-3488 (fax)  
[dodge\\_reocmw@mcgraw-hill.com](mailto:dodge_reocmw@mcgraw-hill.com)

Ohio Construction News  
7261 Engle Road, Suite 304  
Cleveland, OH 44130  
800-969-4700 (phone)  
800-229-4626 (fax)  
[annie@cncnewsonline.com](mailto:annie@cncnewsonline.com)

Dayton Builders Exchange  
2077 Embury Park Road  
Dayton, OH 45414  
866-907-6300  
937-278-3843 (fax)  
[info@bxohio.com](mailto:info@bxohio.com)

Laborers-Employers Cooperation and Education Trust  
P.O. Box 46217, Cincinnati, OH 45246  
614-832-7134(phone), 614-839-9298 (fax)  
Attn: Carmen D. Henderson  
[swo-lectet@cinci.rr.com](mailto:swo-lectet@cinci.rr.com)

I Sq. Ft. Construction  
Attn: Ohio Team  
[Ohio@isqft.com](mailto:Ohio@isqft.com)

## STATE OF OHIO REQUEST FOR PREVAILING WAGE RATES

**Important:** If you wish to retain a copy of this form for your records, please print it prior to clicking on the "Submit" button. When you click the "Submit" button, a prompt should appear which will allow you to obtain the necessary wage rates by clicking on the "view wage rates" button. Submitting this form notifies the Bureau of Labor and Worker Safety of your project. Wage rates will not be sent to you by mail as a result of the submission, rather you should obtain them by clicking on the "view wage rates" button.

### Public Authority Information

<b>Owner/Public Authority Name:</b>	Logan County Engineer's Office	<b>Date: 07/08/2014</b> This form must be filled out completely & correctly for us to process your request. Forms not completed correctly will be returned to the sender.
<b>Department Division or Agency:</b>		
<b>Street Address:</b>	1991 CR 13	
<b>Address 2:</b>		ODOC Date Stamp
<b>City, OH</b>	Bellefontaine, OH	
<b>ZIP:</b>	43311	
<b>Email:</b>	aharper@co.logan.oh.us It is required that you list your e-mail address here.	
<b>County of Public Authority:</b>	LOGAN ▼	
<b>P.A. Phone:</b>	9375922791	

### Project Information

<b>Project Name:</b>	LOG-347-2.28	ODOC Date Stamp (Bld Tab)
<b>Site Address:</b>	SR 347	
<b>City, OH</b>	East Liberty, OH	
<b>ZIP:</b>	43319	
<b>County of Project:</b>	LOGAN ▼	
<b>Prevailing Wage Coordinator Name</b>	Arthur Harper	
<b>Address:</b>	1991 CR 13	
<b>City,</b>	Bellefontaine	
<b>ZIP:</b>		

	43311
<b>Phone:</b>	9375922791
<b>Issuing Authority of Bonds:</b>	
<b>Estimated Total Overall Project Cost:</b>	\$214,980
<b>Type of Financing:</b>	N/A
<b>Type of Construction:</b>	<input checked="" type="radio"/> New Construction <input type="radio"/> Old Construction
<b>This Project is</b>	<input type="radio"/> Residential <input checked="" type="radio"/> Commercial
<b>Expected Date of Contract Award:</b>	07/31/2014 example 05/31/98
<b>Projected Completion Date:</b>	10/31/2014 example 05/31/98
<b>Project Comments:</b>	  (optional)

**Important:** If you wish to retain a copy of this form for your records, please print it prior to clicking on the "Submit" button. When you click the "Submit" button, a prompt should appear which will allow you to obtain the necessary wage rates by clicking on the "view wage rates" button. Submitting this form notifies the Bureau of Labor and Worker Safety of your project. Wage rates will not be sent to you by mail as a result of the submission, rather you should obtain them by clicking on the "view wage rates" button.

Submit

Please contact our [Webmaster](#) with questions or comments.

LAW 1002





- ▶ forms
- ▶ contacts
- ▶ about LAWS
- ▶ search

# Ohio Department of Commerce

## Bureau of Wage & Hour Administration

Consumers

Business

License/Permit Holders & Applicants

Other Government Agencies

[Back to wage rate search](#)   [Back to Home](#)

**Classification = All, County = LOGAN, Union = All**

County	Classification	Effective	Posted	Union
LOGAN	Asbestos Worker	8/7/2013	8/7/2013	Asbestos Local 207 OH
LOGAN	Asbestos Worker	7/1/2014	6/18/2014	Asbestos Local 50 Zone 2
LOGAN	Boilermaker	3/28/2012	3/28/2012	Boilermaker Local 85
LOGAN	Bricklayer	6/4/2014	6/4/2014	Bricklayer Local 22 Sheet #1
LOGAN	Bricklayer	6/4/2014	6/4/2014	Bricklayer Local 22 Sheet #2
LOGAN	Bricklayer	7/1/2013	5/29/2013	Bricklayer Local 22 Tile Finisher
LOGAN	Bricklayer	7/1/2013	5/29/2013	Bricklayer Local 22 Tile Mechanics
LOGAN	Carpenter	2/12/2014	2/12/2014	Carpenter Floorlayer SW District G
LOGAN	Carpenter	6/17/2010	6/17/2010	Carpenter Local 509 NE District Interior Systems
LOGAN	Carpenter	2/12/2014	2/12/2014	Carpenter Millwright Local 1090 Dayton J
LOGAN	Carpenter	3/5/2014	3/5/2014	Carpenter NE District Industrial Dock & Door
LOGAN	Carpenter	7/28/2010	7/28/2010	Carpenter Statewide Office Systems
LOGAN	Carpenter	2/12/2014	2/12/2014	Carpenter & Pile Driver SW District C
LOGAN	Carpenter	7/2/2014	7/2/2014	Carpenter & Pile Driver SW District HevHwy
LOGAN	Bricklayer	6/1/2014	5/21/2014	Cement Mason Bricklayer Local 97 HevHwy A
LOGAN	Bricklayer	6/1/2014	6/4/2014	Cement Mason Bricklayer Local 97 HevHwy B
LOGAN	Cement Mason	5/21/2014	5/21/2014	Cement Mason Local 132 HvyHwy District III (A)
LOGAN	Cement Mason	5/21/2014	5/21/2014	Cement Mason Local 132 HvyHwy District III (B)
LOGAN	Cement Mason	9/21/2011	9/21/2011	Cement Mason Local 886 HevHwy III Water and Sewage Treatment Plant, Amusement Parks, ETC
LOGAN	Cement Mason	9/21/2011	9/21/2011	Cement Mason Local 886 HevHwy III
LOGAN	Cement	9/21/2011	9/21/2011	Cement Mason Local 886 (Lima)
LOGAN	Electrical	6/20/2012	6/20/2012	Electrical Local 32
LOGAN	Electrical	6/4/2014	6/4/2014	Electrical Local 32
LOGAN	Electrical	3/5/2014	3/5/2014	Electrical Local 32 Lt Commercial South West
LOGAN	Voice Data Video	7/11/2012	7/11/2012	Electrical Local 32 Voice Data Video
LOGAN	Lineman	1/16/2013	1/17/2013	Electrical Local 71 DOT Traffic Signal Highway Lighting American Line Builders
LOGAN	Lineman	1/16/2013	1/16/2013	Electrical Local 71 High Tension Pipe Type Cable
LOGAN	Lineman	1/16/2013	1/16/2013	Electrical Local 71 Outside Utility Power
LOGAN	Elevator	1/22/2014	1/22/2014	Elevator Local 37
LOGAN	Glazier	2/6/2013	2/6/2013	Glazier Local 1020
LOGAN	Laborer Group 1	5/1/2014	4/30/2014	Labor HevHwy 3
LOGAN	Laborer	6/4/2014	6/4/2014	Labor Local 1410 Building
LOGAN	Operating Engineer	5/7/2014	5/7/2014	Operating Engineers - Building Local 18 - Zone III
LOGAN	Operating Engineer	5/21/2014	5/21/2014	Operating Engineers - HevHwy II
LOGAN	Painter	4/1/2014	3/26/2014	Painter Local 1020 Commercial
LOGAN	Drywall Finisher	4/1/2014	3/26/2014	Painter Local 1020 Commercial
LOGAN	Painter	4/1/2014	3/26/2014	Painter Local 1020 Industrial
LOGAN	Painter	1/3/2006	1/3/2006	Painter Local 639 (Cleveland Area) Sign
LOGAN	Plasterer	9/22/2011	9/22/2011	Plasterer & Drywall Finisher Local 886
LOGAN	Plumber/Pipefitter	7/1/2014	6/18/2014	Plumber Pipefitter Local 776
LOGAN	Roofer	12/31/2013	12/31/2013	Roofer Local 86
LOGAN	Sheet Metal Worker	6/5/2013	6/5/2013	Sheet Metal Local 24 (Dayton)
LOGAN	Sheet Metal Worker	6/4/2014	6/4/2014	Sheet Metal Local 24 (Dayton)

<u>LOGAN</u>	<u>Sprinkler Fitter</u>	<u>3/19/2014</u>	<u>3/19/2014</u>	<u>Sprinkler Fitter Local 669</u>
<u>LOGAN</u>	<u>Truck Driver</u>	<u>6/29/2011</u>	<u>6/29/2011</u>	<u>Truck Driver Bldg &amp; Hwy Class 1 Locals</u> <u>20,40,92,92b,100,175,284,438,377,505,637,908,957</u>
<u>LOGAN</u>	<u>Truck Driver</u>	<u>6/29/2011</u>	<u>6/29/2011</u>	<u>Truck Driver Bldg &amp; Hwy Class 2 Locals</u> <u>20,40,92,92b,100,175,284,438,377,505,637,908,957</u>
<u>LOGAN</u>	<u>Ironworker</u>	<u>9/25/2013</u>	<u>9/25/2013</u>	<u>Ironworker Local 172</u>
<u>LOGAN</u>	<u>Ironworker</u>	<u>6/1/2014</u>	<u>6/1/2014</u>	<u>Ironworker Local 172</u>
<u>LOGAN</u>	<u>Ironworker</u>	<u>10/16/2013</u>	<u>10/16/2013</u>	<u>Ironworker Local 290</u>

[Back to home](#)



CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SCIOTO, SENECA, SHELBY, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WYANDOT

**Special Jurisdictional Note :** Hod Carriers and Common Laborers - Heavy, Highway, Sewer, Waterworks, Utility, Airport, Railroad, Industrial and Building Site, Sewer Plant, Waste Water Treatment Facilities Construction

**Details :**

**Group 1**

Laborer (Construction); Plant Laborer or Yardman, Right-of-way Laborer, Landscape Laborer, Highway Lighting Worker, Signalization Worker (Swimming) Pool Construction Laborer, Utility Man, Bridge Man, Handyman, Joint Setter, Flagperson, Carpenter Helper, Waterproofing Laborer, Slurry Seal, Seal Coating, Surface Treatment or Road Mix Laborer, Riprap Laborer & Grouter, Asphalt Laborer, Dump Man (batch trucks), Guardrail & Fence Installer, Mesh Handler & Placer, Concrete Curing Applicator, Scaffold Erector, Sign Installer, Hazardous Waste (level D), Diver Helper, Zone Person and Traffic Control.

**Group 2**

Asphalt Raker, Screwman or Paver, Concrete Puddler, Kettle Man (pipeline), All Machine-Driven Tools (Gas, Electric, Air), Mason Tender, Brick Paver, Mortar Mixer, Skid Steer, Sheeting & Shoring Person, Surface Grinder Person, Screedperson, Water Blast, Hand Held Wand, Power Buggy or Power Wheelbarrow, Paint Striper, Plastic fusing Machine Operator, Rodding Machine Operator, Pug Mill Operator, Operator of All Vacuum Devices Wet or Dry, Handling of all Pumps 4 inches and under (gas, air or electric), Bottom Person, Welder Helper (pipeline), Concrete Saw Person, Cutting with Burning Torch, Pipe Layer, Hand Spiker (railroad), Underground Person (working in sewer and waterline, cleaning, repairing and reconditioning). Tunnel Laborer (without air), Caisson, Cofferdam (below 25 feet deep), Air Track and Wagon Drill, Sandblaster Nozzle Person, Hazardous Waste (level B), Lead Abatement, Hazardous Waste (level C)

**Group 3**

Blast and Powder Person, Muckers (with miners), Wrencher (mechanical joints & utility pipeline), Yarnier, Top

Lander, Hazardous Waste (level A), Concrete Specialist, Curb Setter and Cutter, Concrete Crew in Tunnels.  
Utility pipeline Tappers, Waterline, Caulker, Signal Person, Grade Checker

**Group 4**

Miner, Welder, Gunnite Nozzle Person



# Prevailing Wage Rate Skilled Crafts

Name of Union: Operating Engineers - HevHwy II

Change # : LCN01-2014fbLoc18hevhwyl

Craft : Operating Engineer Effective Date : 05/21/2014 Last Posted : 05/21/2014

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Operator Class 1	\$32.44		\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$46.34	\$62.56
Class 2	\$32.32		\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$46.22	\$62.38
Class 3	\$31.28		\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$45.18	\$60.82
Class 4	\$30.10		\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$44.00	\$59.05
Class 5	\$24.64		\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$38.54	\$50.86
Class 6	\$32.69		\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$46.59	\$62.93
Class 7	\$32.69		\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$46.59	\$62.93
Class 8	\$32.94		\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$46.84	\$63.31
Great Lakes Floating Agreement												
Class 1	\$39.70		\$6.91	\$6.00	\$0.60	\$0.00	\$0.00	\$0.04	\$0.00	\$0.00	\$53.25	\$73.10
Class 2A	\$38.20		\$6.91	\$6.00	\$0.60	\$0.00	\$0.00	\$0.04	\$0.00	\$0.00	\$51.75	\$70.85
Class 2B	\$38.20		\$6.91	\$6.00	\$0.60	\$0.00	\$0.00	\$0.04	\$0.00	\$0.00	\$51.75	\$70.85
Class 3	\$34.00		\$6.91	\$6.00	\$0.60	\$0.00	\$0.00	\$0.04	\$0.00	\$0.00	\$47.55	\$64.55
Class 4	\$28.30		\$6.91	\$6.00	\$0.60	\$0.00	\$0.00	\$0.04	\$0.00	\$0.00	\$41.85	\$56.00
<b>Apprentice</b>	<b>Percent</b>											
1st Year	50.00	\$16.22	\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$30.12	\$38.23
2nd Year	60.00	\$19.46	\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$33.36	\$43.10
3rd Year	70.00	\$22.71	\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$36.61	\$47.96
4th Year	80.00	\$25.95	\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$39.85	\$52.83
Field Mech Trainee Class 2												
1st year	49.80	\$16.16	\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$30.06	\$38.13

2nd year	59.78	\$19.39	\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$33.29	\$42.99
3rd year	69.73	\$22.62	\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$36.52	\$47.83
4th year	79.73	\$25.86	\$7.16	\$6.00	\$0.67	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$39.76	\$52.70

**Special Calculation Note :** Other: Education & Safety Fund is \$0.04 per hour.

**Ratio :**

For every (3) Operating Engineer Journeymen employed by the company , there may be employed (1) Registered Apprentice. An apprentice, while employed as part of a crew per Article VIII paragraph 65, will not be subject the apprenticeship ratios in this collective bargaining agreement. On jobs where maintenance engineers are to be employed, for every (2) Class 2 Mechanics there may be (1) Mechanic Trainee & so fourth. Mechanic Trainee rate is a percentage of Class 2 rate.

**Jurisdiction ( \* denotes special jurisdictional note ) :**

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

**Special Jurisdictional Note :**

**Details :**

\*\*Apprentices will receive a 10% increase on top of the percentages listed above provided they are operating mobile equipment. Mechanic Trainees will receive 10% increase if they are required to have CDL.

Class 1 - Air Compressors on Steel Erection; Barrier Moving Machine; Boiler Operators, on Compressors or Generators, when mounted on a rig; Cableways, Combination Concrete mixers & Towers; Concrete Pumps; Concrete Plants ( over 4 yd capacity); Cranes (all types, including Boom Trucks, Cherry Pickers); Derricks; Draglines, Dredgers (dipper, clam or suction); Elevating Graders or Euclid Loaders; Floating Equipment (all types); Gradalls, Helicopter Crew (Operator- hoist or winch); Hoes (all types); Hoisting Engines, on shaft or tunnel work; Hydraulic Gantry (lifting system); Industrial - Type Tractors; Jet Engine Dryers (D8 or D9), Diesel Tractors; Locomotives (standard gage); Maintenance Operators (class A); Mixers, paving (single or double drum); Mucking Machines; Multiple Scrapers; Piledriving Machines (all types); Power Shovels, Prentice Loader; Quad 9 (double pusher); Rail Tamper (with automatic lifting and aligning device); Refrigerating Machines (freezer operation); Side Booms; Slip Form Pavers; Tower Dericks; Tree Shredders; Truck Mounted Concrete Pumps; Tug Boats; Tunnel Machines and /or Mining Machines; Wheel Excavators. Rough Terrain Fork-lift with Winch/Hoist; Compact Cranes, track rubber over 4,000 pound capacity, self-erecting cranes; stationary, track



or truck (all configurations) Bucket trench machines (over 24 inches wide).

**Class 2 - Asphalt Pavers; Automatic Subgrade Machines, self-propelled (CMI-type); Bobcat-type and /or skid steer loader with hoe attachment greater than 7000 lbs.; Boring Machine Operators (more than 48 inches); Bulldozers; Endloaders; Hydro Milling Machine; Kolman-type Loaders (production type-dirt); Lead Greasemen; Maintenance Operators, Class B (Portage and Summit Counties only); Pettibone-Rail Equipment; Power Graders; Power Scrapers; Push Cats; Lighting and Traffic Signal Installation Equipment includes all groups or classifications; Trench Machines (24inch wide and under); Vermeer Type Concrete saw. Material Transfer Equipment (Shuttle buggy) Asphalt; All rotomills,grinders and planers of all types. Horizontal Directional Drill (Over 50,000 ft.lbs.thrust and over)**

**Class 3 - A-Frames; Air Compressors, on tunnel work (low Pressure); Asphalt Plant Engineers; Bobcat-type and/or skid steer loader with or without attachments; Power Boilers (15 lbs pressure and over); Highway Drills (all types); Rollers, asphalt; Pump Operators (installing or operating well Points); Pumps (4 inch and over discharge); Railroad Tie Inserter/Remover; Rotator (lime-soil Stabilizer), Switch & Tie Tampers (without lifting and aligning device); Locomotives (narrow gage); Mixers, concrete (more than one bag capacity); Mixers, one bag capacity (side loader); Utilities Operators, (small equipment); Welding Machines; Material hoist/elevators. Articulating/straight bed end dumps if assigned (minus \$4.00 per hour).**

**Class 4 -Ballast Re-locator; Backfillers, Batch Plants; Bar and Joint Installing Machines; Boring Machine Operators (48 inch or less); Bull Floats; Burlap and Curing Machines; Concrete Plants (capacity 4 yd and under); Conveyors (highway); Concrete Saws (multiple); Crushers; Deckhands; Farm type tractors, with attachments (highway), except masonry; Finishing Machines; Firemen, Floating Equipment (all types); Fork Lifts (highway); Form Trenchers; Hydro Hammers; Hydro Seeders; Pavement Breakers; Plant Mixers; Post Drivers; Post Hole Diggers (power auger); Power Brush Burners; Power Form Handling Equipment; Road Widening Trenchers; Rollers (brick, grade, macadam); Self-Propelled Power Spreaders; Self-Propelled Sub-Graders; Tractors, pulling sheepsfoot rollers or graders; Steam Firemen; Vibratory Compactors, with integral power.**

**Class 5 - Compressors (portable, Sewer, Heavy and Highway); Generators; Inboard-Outboard Motor Boat Launches; Masonry Fork Lifts; Oilers/Helpers; Power Driven Heaters; Power Scrubbers; Power Sweepers; Pumps (under 4 inch discharge); Signalmen; Drum Fireman (in Asphalt Plant); Oil Heaters (Asphalt Plant); Tire Repairmen; VAC/ALLS; Fueling and greasing (plus \$3.00), compact cranes: track or rubber under 4,000 pounds.**

**Class 6 - Master Mechanic**

**Class 7 - Crane Boom 150 ft - 180 ft**

**Class 8 - Crane Boom over 180 ft .**

#### **GREAT LAKES FLOATING AGREEMENT:**

**Class 1 - Diver, Wet Tender, Engineer, (Hyd.Dredge), Craft Foreman ( Master Mechanic)**

**Class 2A - Crane Backhoe Operator, Mechanic/Welder, Assistant Engineer (Hyd. Dredge), Leverman (Hyd Dredge) Diver Tender, Tug Operator ( Tug 70T and over)**

**Class 2B - Friction Crane, Lattice Boom or any Crane Certification.**

Class 3 - Deck Equipment Operator, (Machineryman), Maint. of Crane, Tug/Launch Operator, Loader/Dozer on Barge, Deck Machinery, Maintenance of Crane ( over 50T capacity), or Backhoe (115,000lbs or more) Loaders/Dozer and like equipment on Barge, Breakwater Wall, Slip/Dock Scow.

Class4 - Deck Equipment Operator, (Machineryman/Fireman)(4 equipment Units or more), Deck Hand, Tug Engineer, Crane Maintenance, 50T and under/Backhoe 115,000lbs or less, Assistant Tug Operator, add off Road Truck.



**Special Calculation Note :** No special calculations for this skilled craft wage rate are required at this time.

**Ratio :**

3 Journeymen to 1 Apprentice  
per company/project

**Jurisdiction ( \* denotes special jurisdictional note ) :**

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

**Special Jurisdictional Note :**

**Details :**

\*\* Asphalt - Oil spray bar man when operating from cab shall receive \$0.20 cents per hour above their Basic Hourly Rate.



**Special Calculation Note :** No special calculations for this skilled craft wage rate are required at this time.

**Ratio :**

3 Journeymen to 1 Apprentice  
per company/project

**Jurisdiction ( \* denotes special jurisdictional note ) :**

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

**Special Jurisdictional Note :**

**Details :**

\*\* Asphalt - Oil spray bar man when operating from cab shall receive \$0.20 cents per hour above their Basic Hourly Rate.



## Department of Commerce

Division of Industrial Compliance

John R. Kasich, Governor  
David Goodman, Director

### **PREVAILING WAGE CONTRACTOR RESPONSIBILITIES**

**This is a summary of prevailing wage contractors' responsibilities. For more detailed information, please refer to Chapter 4115 of the Ohio Revised Code**

#### **General Information**

Ohio's prevailing wage laws apply to all public improvements financed in whole or in part by public funds when the total overall project cost is fairly estimated to be more than \$200,000 for new construction or \$60,000 for reconstruction, enlargement, alteration, repair, remodeling, renovation, or painting.

- a) The threshold for new construction will increase to \$250,000 beginning September 29, 2013.
- b) The threshold for reconstruction will increase to \$75,000 beginning September 29, 2013.

Ohio's prevailing wage laws apply to all public improvements financed in whole or in part by public funds when the total overall project cost is fairly estimated to be more than \$82,137 for new construction that involves roads, streets, alleys, sewers, ditches and other works connected to road or bridge construction or \$24,609 for reconstruction, enlargement, alteration, repair, remodeling, renovation, or painting of a public improvement that involves roads, streets, alleys, sewers, ditches and other works connected to road or bridge construction.

- a) Thresholds are to be adjusted biennially by the Administrator of Ohio Department of Commerce, Division of Industrial Compliance, Bureau of Wage and Hour Administration
- b) Biennial adjustments to threshold levels are made according to the Price Deflator for Construction Index, United States Department of Commerce, Bureau of the Census\*, but may not increase or decrease more than 3% for any year. (*\*Please note, in the absence of a published Price Deflator for Construction Index, the threshold adjustment is calculated using the Building Cost for Skilled Labor Index published by McGraw-Hill's Engineering News-Record.*)

**Penalties for violation** Violators are to be assessed the wages owed, plus a penalty of 100% of the wages owed.

#### **Intentional Violations**

If an intentional violation is determined to have occurred, the contractor is prohibited from contracting directly or indirectly with any public authority for the construction of a public improvement. Intentional violation means "a willful, knowing, or deliberate disregard for any provision" of the prevailing wage law and includes but is not limited to the following actions:

- Intentional failure to submit payroll reports as required, or knowingly submitting false or erroneous reports.
- Intentional misclassification of employees for the purpose of reducing wages.
- Intentional misclassification of employees as independent contractors or as apprentices.
- Intentional failure to pay the prevailing wage.
- Intentional failure to comply with the allowable ratio of apprentices to skilled workers as required by the regulations established by Ohio Department of Commerce, Division of Industrial Compliance, Bureau of Wage and Hour Administration.
- Intentionally employing an officer, of a contractor or subcontractor, that is known to be prohibited from contracting, directly or indirectly, with a public authority.

## **Responsibilities**

- A. Pay the prevailing rate of wages as shown in the wage rate schedules issued by the Ohio Department of Commerce, Division of Industrial Compliance, Bureau of Wage and Hour Administration, for the classification of work being performed.
  - 1. Wage rate schedules include all modifications, corrections, escalations, or reductions to wage rates issued for the project.
  - 2. Overtime must be paid at time and one-half the employee's base hourly rate. Fringe benefits are paid at straight time rate for all hours including overtime.
  - 3. Prevailing wages must be paid in full without any deduction for food, lodging, transportation, use of tools, etc.; unless, the employee has voluntarily consented to these deductions in writing. The public authority and the Director of Ohio Department of Commerce, Division of Industrial Compliance, Bureau of Wage and Hour Administration - must approve these deductions as fair and reasonable. Consent and approval must be obtained before starting the project.
  
- B. Use of Apprentices and Helpers cannot exceed the ratios permitted in the wage rate schedules.
  - 1. Apprentices must be registered with the U.S. Department of Labor Bureau of Apprenticeship and Training.
  - 2. Contractors must provide the Prevailing Wage Coordinator a copy of the Apprenticeship Agreement for each apprentice on the project.
  
- C. Keep full and accurate payroll records available for inspection by any authorized representative of the Ohio Department of Commerce, Division of Industrial Compliance, Bureau of Wage and Hour Administration or the contracting public authority, including the Prevailing Wage Coordinator. Records should include but are not limited to:
  - 1. Time cards, time sheets, daily work records, etc.
  - 2. Payroll ledger\journals and canceled checks\check register.
  - 3. Fringe benefit records must include program name, address, account number, and canceled checks.
  - 4. Records made in connection with the public improvement must not be removed from the State for one year following the completion of the project.
  - 5. Out-of-State Corporations must submit to the Ohio Secretary of State the full name and address of their Statutory Agent in Ohio.
  
- D. Prevailing Wage Rate Schedule must be posted on the job site where it is accessible to all employees.
  
- E. Prior to submitting the initial payroll report, supply the Prevailing Wage Coordinator with your project dates to schedule reporting of your payrolls.
  
- F. Supply the Prevailing Wage Coordinator a list of all subcontractors including the name, address, and telephone number for each.
  - 1. Contractors are responsible for their subcontractors' compliance with requirements of Chapter 4115 of the Ohio Revised Code.
  
- G. Before employees start work on the project, supply them with written notification of their job classification, prevailing wage rate, fringe benefit amounts, and the name of the Prevailing Wage Coordinator for the project. A copy of the completed signed notification should be submitted to the Prevailing Wage Coordinator.
  
- H. Supply all subcontractors with the Prevailing Wage Rates and changes.



- I. Submit certified payrolls within two (2) weeks after the initial pay period. Payrolls must include the following information:
1. Employees' names, addresses, and social security numbers.  
(a) Corporate officers/owners/partners and any salaried personnel who do physical work on the project are considered employees. All rate and reporting requirements are applicable to these individuals.
  2. Employees' work classification.  
(a) Be specific about the laborers and/or operators (Group)  
(b) For all apprentices, show level/year and percent of journeyman's rate
  3. Hours worked on the project for each employee.  
(a) The number of hours worked in each day and the total number of hours worked each week.
  4. Hourly rate for each employee.  
(a) The minimum rate paid must be the wage rate for the appropriate classification. The Department's Wage Rate Schedule sets this rate.  
(b) All overtime worked is to be paid at time and one-half for all hours worked more than forty (40) per week.
  5. Where fringes are paid into a bona fide plan instead of cash, list each benefit and amount per hour paid to program for each employee.  
(a) When the amount contributed to the fringe benefit plan and the total number of hours worked by the employee on all projects for the year are documented, the hourly amount is calculated by dividing the total contribution of the employer by the total number of hours worked by the employee.  
(b) When the amount contributed to the fringe benefit is documented but not the total hours worked, the hourly amount is calculated by **dividing the total yearly contribution by 2080**.
  6. Gross amount earned on all projects during the pay period.
  7. Total deductions from employee's wages.
  8. Net amount paid.
- J. The reports shall be certified by the contractor, subcontractor, or duly appointed agent stating that the payroll is correct and complete; and that the wage rates shown are not less than those required by the O.R.C. 4115.
- K. Provide a Final Affidavit to the Prevailing Wage Coordinator upon the completion of the project.



## BID PROPOSAL

To the Commissioners of Logan County, Ohio:

The undersigned, having full knowledge of the site, plans and specifications for the project known as LOG-347-2.28, and the conditions of the bid, hereby agrees to furnish to the Commissioners of Logan County all services, labor, materials and equipment necessary to complete said project, according to the plans and specifications, and to accept the unit prices specified below as full compensation for the work.

Bid Date: July 31, 2014 1:30 P.M., Ohio Daylight Saving Time

Completion Date: Per Plan Sheet 5/22

ITEM	ITEM EXT.	QUAN	UNIT	DESCRIPTION	EST. COST	TOTAL	BID PRICE	TOTAL
<b>LOG-347-2.28</b>								
<b>ROADWAY</b>								
201	11000	1	LUMP	CLEARING AND GRUBBING	\$ 3,000.00	\$ 3,000.00	\$	\$
202	23000	930	SY	PAVEMENT REMOVED	\$ 16.44	\$ 15,292.24	\$	\$
202	32000	60	FT	CURB REMOVED	\$ 11.51	\$ 690.68	\$	\$
203	10000	352	CY	EXCAVATION	\$ 16.11	\$ 5,669.25	\$	\$
203	20000	270	CY	EMBANKMENT	\$ 13.51	\$ 3,648.72	\$	\$
204	10000	1264	SY	SUBGRADE COMPACTION	\$ 2.04	\$ 2,577.59	\$	\$
<b>EROSION CONTROL</b>								
601	21050	4	SY	TIED CONCRETE BLOCK MAT, TYPE 1	\$ 155.94	\$ 623.78	\$	\$
601	32204	2	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER	\$ 121.60	\$ 243.21	\$	\$
659	00100	2	EACH	SOIL ANALYSIS TEST	\$ 72.25	\$ 144.49	\$	\$
659	00300	487	CU YD	TOPSOIL	\$ 20.75	\$ 10,105.94	\$	\$
659	10000	4386	SQ YD	SEEDING AND MULCHING	\$ 0.86	\$ 3,765.69	\$	\$
659	14000	219	SQ YD	REPAIR SEEDING AND MULCHING	\$ 0.68	\$ 148.94	\$	\$
659	15000	219	SQ YD	INTER-SEEDING	\$ 0.19	\$ 41.30	\$	\$
659	20000	0.42	TON	COMMERCIAL FERTILIZER	\$ 600.00	\$ 252.00	\$	\$
659	31000	0.91	ACRE	LIME	\$ 500.00	\$ 455.00	\$	\$
659	35000	24	M GAL	WATER	\$ 0.79	\$ 18.95	\$	\$
832	30000	1000	EACH	EROSION CONTROL	\$ 1.00	\$ 1,000.00	\$	\$
<b>DRAINAGE</b>								
605	13300	25	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	\$ 8.00	\$ 200.00	\$	\$
611	00900	100	FT	6" CONDUIT, TYPE B	\$ 14.29	\$ 1,428.54	\$	\$
611	01500	250	FT	6" CONDUIT, TYPE F	\$ 12.68	\$ 3,170.69	\$	\$
611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	\$ 218.58	\$ 437.16	\$	\$
<b>PAVEMENT</b>								
301	46000	292	CU YD	ASPHALT CONCRETE BASE, PG64-22	\$ 138.99	\$ 40,586.33	\$	\$
304	20000	203	CU YD	AGGREGATE BASE	\$ 53.83	\$ 10,927.17	\$	\$
407	14000	47	GALLON	TACK COAT FOR INTERMEDIATE COURSE	\$ 2.31	\$ 108.68	\$	\$
448	46050	57	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	\$ 157.96	\$ 9,003.87	\$	\$
448	47020	41	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	\$ 153.44	\$ 6,290.93	\$	\$

## BID PROPOSAL

To the Commissioners of Logan County, Ohio:

The undersigned, having full knowledge of the site, plans and specifications for the project known as LOG-347-2.28, and the conditions of the bid, hereby agrees to furnish to the Commissioners of Logan County all services, labor, materials and equipment necessary to complete said project, according to the plans and specifications, and to accept the unit prices specified below as full compensation for the work.

Bid Date: July 31, 2014 1:30 P.M., Ohio Daylight Saving Time

Completion Date: Per Plan Sheet 5/22

ITEM	ITEM EXT.	QUAN	UNIT	DESCRIPTION	EST. COST	TOTAL	BID PRICE	TOTAL
609	26000	83	FT	CURB, TYPE 6	\$ 21.73	\$ 1,803.59	\$	\$
609	98000	190	FT	CURB, MISC.: LONGITUDINAL CHANNELIZER	\$ 17.03	\$ 3,234.86	\$	\$
617	10100	28	CU YD	COMPACTED AGGREGATE	\$ 59.52	\$ 1,666.65	\$	\$
				<b>LIGHTING</b>				
625	00450	10	EACH	CONNECTION, FUSED PULL APART	\$ 83.57	\$ 835.74	\$	\$
625	00480	7	EACH	CONNECTION, UNFUSED PERMANENT	\$ 72.73	\$ 509.09	\$	\$
625	10490	4	EACH	LIGHT POLE, CONVENTIONAL DESIGN, TYPE AT 15, B40	\$ 2,137.00	\$ 8,548.01	\$	\$
625	10490	1	EACH	LIGHT POLE, CONVENTIONAL DESIGN, TYPE AT 20, B40	\$ 2,137.00	\$ 2,137.00	\$	\$
625	14100	5	EACH	LIGHT POLE FOUNDATION, 24" X 8" DEEP	\$ 1,152.37	\$ 5,761.86	\$	\$
625	23200	2469	FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE	\$ 2.90	\$ 7,169.56	\$	\$
625	23200	330	FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE, AS PER PLAN	\$ -	\$ -	\$	\$
625	23400	560	FT	NO. 10 AWG POLE AND BRACKET CABLE	\$ 1.14	\$ 636.88	\$	\$
625	25400	508	FT	CONDUIT, 2", 725.04	\$ 10.99	\$ 5,584.28	\$	\$
625	25902	255	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"	\$ 30.57	\$ 7,794.83	\$	\$
625	25910	100	FT	CONDUIT CLEANED AND CABLES REMOVED	\$ 0.79	\$ 78.70	\$	\$
625	26251	5	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	\$ 322.90	\$ 1,614.49	\$	\$
625	29002	508	FT	TRENCH, 24" DEEP	\$ 6.21	\$ 3,155.33	\$	\$
625	30700	3	EACH	PULL BOX, 725.08, 18"	\$ 680.59	\$ 2,041.78	\$	\$
625	31511	1	EACH	PULL BOX REMOVED, AS PER PLAN	\$ 166.72	\$ 166.72	\$	\$
625	32000	5	EACH	GROUND ROD	\$ 163.20	\$ 816.01	\$	\$
625	36000	508	FT	PLASTIC CAUTION TAPE	\$ 0.47	\$ 240.57	\$	\$
625	75402	1	EACH	LIGHT POLE REMOVED FOR STORAGE	\$ 228.20	\$ 228.20	\$	\$
625	75501	1	EACH	LIGHT POLE FOUNDATION REMOVED, AS PER PLAN	\$ 297.29	\$ 297.29	\$	\$
625	75504	1	EACH	LUMINAIRE REMOVED FOR STORAGE	\$ 57.04	\$ 57.04	\$	\$
				<b>TRAFFIC CONTROL</b>				
621	00100	34	EACH	RPM	\$ 30.16	\$ 1,025.47	\$	\$
621	54000	20	EACH	RAISED PAVEMENT MARKER REMOVED	\$ 9.75	\$ 195.03	\$	\$
630	03100	133	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	\$ 9.44	\$ 1,255.59	\$	\$
630	79000	1	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	\$ 170.23	\$ 170.23	\$	\$
630	80100	45	SQ FT	SIGN, FLAT SHEET	\$ 16.99	\$ 764.66	\$	\$
630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	\$ 12.43	\$ 49.71	\$	\$

## BID PROPOSAL

To the Commissioners of Logan County, Ohio:

The undersigned, having full knowledge of the site, plans and specifications for the project known as LOG-347-2.28, and the conditions of the bid, hereby agrees to furnish to the Commissioners of Logan County all services, labor, materials and equipment necessary to complete said project, according to the plans and specifications, and to accept the unit prices specified below as full compensation for the work.

Bid Date: July 31, 2014 1:30 P.M., Ohio Daylight Saving Time

Completion Date: Per Plan Sheet 5/22

ITEM	ITEM EXT.	QUAN	UNIT	DESCRIPTION	EST. COST	TOTAL	BID PRICE	TOTAL
630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	\$ 46.43	\$ 46.43	\$	\$
630	86002	10	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	\$ 12.05	\$ 120.52	\$	\$
642	00090	0.17	MILE	EDGE LINE, 4"	\$ 1,500.00	\$ 255.00	\$	\$
642	00290	0.03	MILE	CENTER LINE	\$ 5,000.00	\$ 150.00	\$	\$
642	30000	300	FT	REMOVAL OF PAVEMENT MARKING	\$ 2.42	\$ 724.81	\$	\$
644	00400	937	FT	CHANNELIZING LINE, 8"	\$ 1.27	\$ 1,188.45	\$	\$
644	00500	24	FT	STOP LINE	\$ 9.65	\$ 231.60	\$	\$
644	00700	156	FT	TRANSVERSE/DIAGONAL LINE	\$ 4.86	\$ 758.12	\$	\$
644	00900	100	SQ FT	ISLAND MARKING	\$ 2.54	\$ 253.52	\$	\$
644	01500	210	FT	DOTTED LINE, 4"	\$ 1.38	\$ 290.15	\$	\$
644	01300	6	EACH	LANE ARROW	\$ 84.66	\$ 507.97	\$	\$
<b>TRAFFIC SIGNALS</b>								
632	00103	1	EACH	VEHICULAR SIGNAL HEAD, 1-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	\$ 500.00	\$ 500.00	\$	\$
632	30200	118	FT	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	\$ 6.87	\$ 810.29	\$	\$
632	40301	217	FT	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG, AS PER PLAN	\$ 2.00	\$ 434.00	\$	\$
<b>MAINTENANCE OF TRAFFIC</b>								
614	11000	1	LUMP	MAINTAINING TRAFFIC	\$ 12,000.00	\$ 12,000.00	\$	\$
614	11110	24	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	\$ 64.13	\$ 1,539.16	\$	\$
<b>INCIDENTALS</b>								
623	10000	1	LUMP	CONSTRUCTION LAYOUT STAKES AND SURVEYING	\$ 7,500.00	\$ 7,500.00	\$	\$
624	10000	1	LUMP	MOBILIZATION	\$ 10,000.00	\$ 10,000.00	\$	\$
<b>GRAND TOTAL:</b>					\$	\$ 214,980.32	\$	\$

\_\_\_\_\_  
BIDDER

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
ADDRESS

\_\_\_\_\_  
CITY

\_\_\_\_\_  
STATE

\_\_\_\_\_  
ZIP

\_\_\_\_\_  
CONTACT (please print)

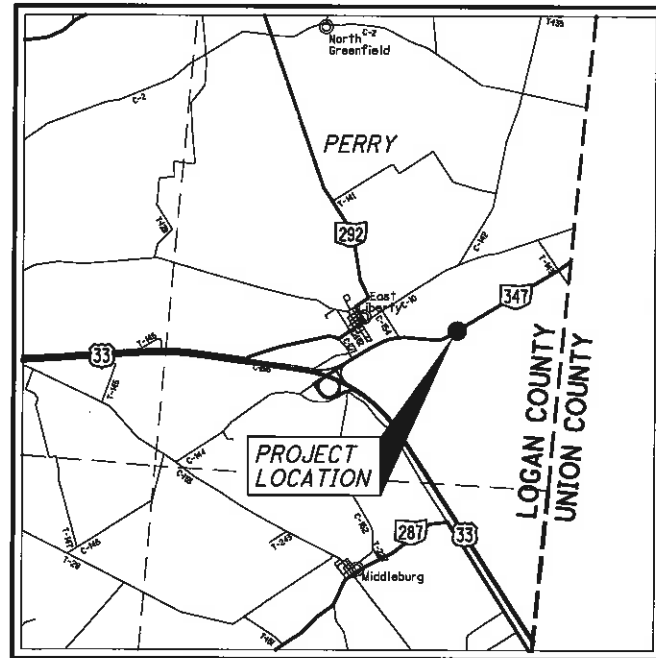
\_\_\_\_\_  
PHONE

\_\_\_\_\_  
EMAIL

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**LOG-347-2.28**

**PERRY TOWNSHIP  
LOGAN COUNTY**



LOCATION MAP

LATITUDE: 40° 19' 54.2" LONGITUDE: -83° 33' 34.6"



PORTION TO BE IMPROVED	—————
INTERSTATE HIGHWAY	—————
FEDERAL ROUTES	—————
STATE ROUTES	—————
COUNTY & TOWNSHIP ROADS	—————
OTHER ROADS	—————

**DESIGN DESIGNATION**

CURRENT ADT (2015)	2,300
DESIGN YEAR ADT (2035)	2,600
DESIGN HOURLY VOLUME (2035)	310
DIRECTIONAL DISTRIBUTION	64%
TRUCKS (24 HOUR B&C)	16%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
MAJOR COLLECTOR - RURAL	
NHS PROJECT	NO

**DESIGN EXCEPTIONS**

NONE

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
BEFORE YOU DIG

CALL  
**1-800-362-2764**  
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS UNDERGROUND  
PROTECTION SERVICE CALL: **1-800-925-0988**

PLAN PREPARED BY:  
OHIO DEPT. OF TRANSPORTATION - DISTRICT 7  
1001 ST. MARYS AVE.  
SIDNEY, OH 45365

ENGINEERS SEAL:

SIGNED: \_\_\_\_\_  
DATE: \_\_\_\_\_

ENGINEERS SEAL:

SIGNED: *Ryan P. Hanke*  
DATE: 6/30/14

**INDEX OF SHEETS:**

TITLE SHEET	1
SCHEMATIC/SITE PLAN	2
TYPICAL SECTIONS	3
GENERAL NOTES	4
MAINT. OF TRAFFIC	5-6
GENERAL SUMMARY	7-8
PAVEMENT QUANTITIES	9
PLAN SHEETS	10-11
CROSS SECTIONS	12-15
INTERSECTION DETAILS	16
TRAFFIC CONTROL	17-19
SIGNALS	20
LIGHTING	21-22

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-5.1	7/19/13	MT-105.10	7/19/13	800	4/18/14		
DM-4.4	7/20/12	TC-41.20	10/18/13	832	1/17/14		
HL-10.11	1/17/14	TC-52.10	10/18/13				
HL-10.12	1/17/14	TC-52.20	1/17/14				
HL-10.13	1/17/14	TC-65.10	1/17/14				
HL-20.11	1/17/14	TC-65.11	1/17/14				
HL-30.11	1/17/14	TC-71.10	1/17/14				
HL-30.21	1/17/14						
HL-30.22	1/17/14						
HL-30.32	1/17/14						
HL-60.11	1/17/14						
MT-95.31	7/19/13						
MT-101.90	7/19/13						

**PROJECT DESCRIPTION**

THE PURPOSE OF THIS PROJECT IS TO EXTEND THE EXISTING RIGHT TURN LANE INTO THE HONDA FACILITY WHICH INCLUDES PAVEMENT AND GRADING WORK. HIGHWAY LIGHTING WILL ALSO BE INSTALLED ALONG THE EXTENDED RIGHT TURN LANE.

PROJECT EARTH DISTURBED AREA: 0.65 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.10 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A

**2013 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVED THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ HONDA OF AMERICA MFG., INC.

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ LOGAN COUNTY ENGINEER

I:\PROJECTS\Log\347\0228\Honda Entrance\sheets\9821\GT001.dgn 30-JUN-2014 10:06AM rhanke

FEDERAL PROJECT NO.  
N/A

PID NO.  
98211

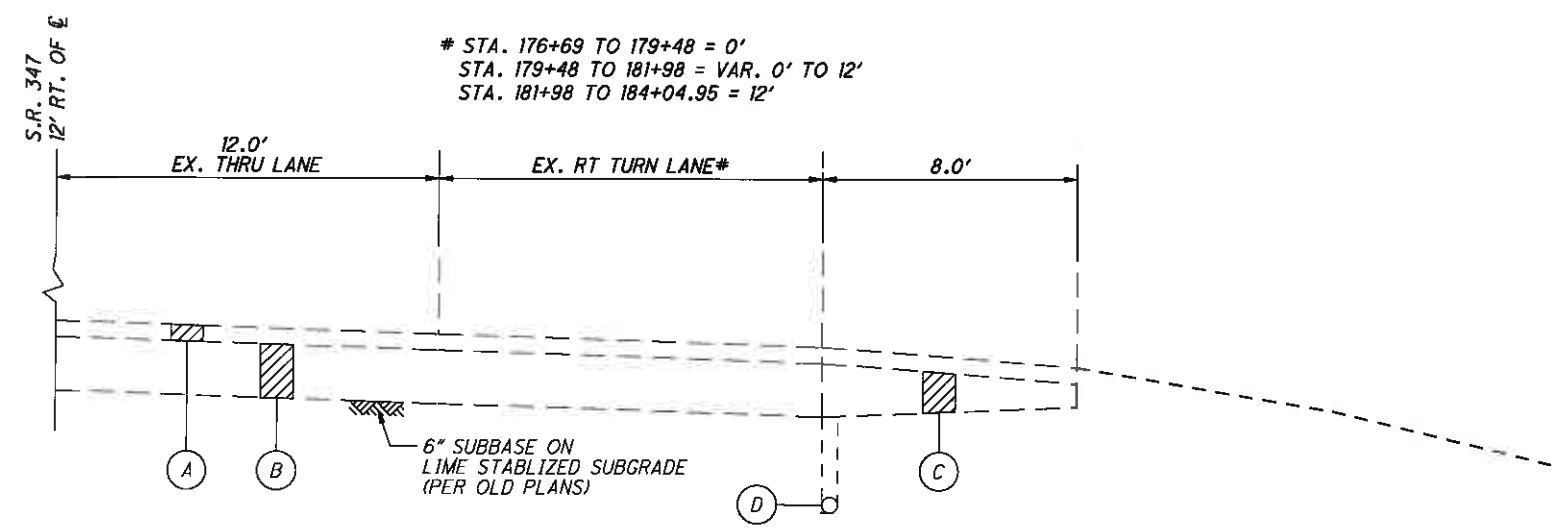
CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
NONE

LOG-347-2.28

1  
22

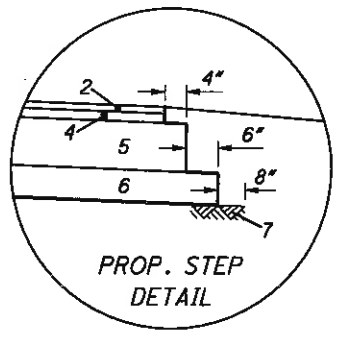




**EXISTING TYPICAL**  
LIMITING STATION  
176+69.00 TO 184+04.95 = 735.95 FT.

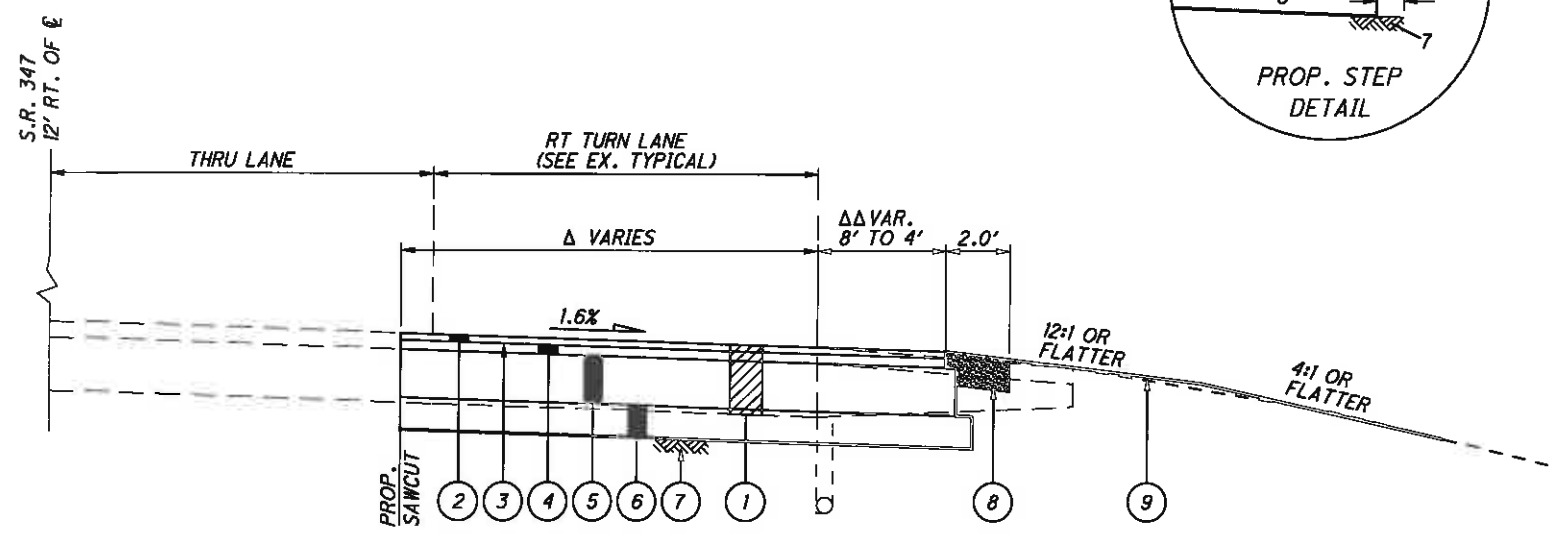
EX. LEGEND

- (A) 4"± ASPHALT
- (B) 10"± CONCRETE
- (C) 10"± CONCRETE (VARIES)  
(1/4" PER FT. SLOPE TO UNDERDRAIN PER OLD PLANS)
- (D) EX. 6" UNDERDRAIN



PROP. LEGEND

- (1) ITEM 202 - PAVEMENT REMOVED (SEE EX. LEGEND)
- (2) ITEM 448 - AC SURFACE, TYPE 1, PG 64-22 (1.25" THICK)
- (3) ITEM 407 - TACK COAT FOR INTERM. (0.04 GAL/SY)
- (4) ITEM 448 - AC INTERMEDIATE, TYPE 2, PG 64-22 (1.75" THICK)
- (5) ITEM 301 - AC BASE (9" THICK)
- (6) ITEM 304 - AGGREGATE BASE (6" THICK)
- (7) ITEM 204 - SUBGRADE COMPACTION
- (8) ITEM 617 - 6" COMPACTED AGGREGATE
- (9) ITEM 659 - SEEDING AND MULCHING



**PROPOSED TYPICAL**  
LIMITING STATION  
176+69.00 TO 184+04.95 = 735.95 FT.

Δ STA. 176+69 TO 177+19 = VAR. 1' TO 13'  
STA. 177+19 TO 179+75 = 13'  
STA. 179+75 TO 182+00 = VAR 13' TO 2'  
STA. 182+00 TO 184+04.95 = 2'

ΔΔ STA. 176+69 TO 177+19 = VAR. 8' TO 4'  
STA. 177+19 TO 184+04.95 = 4'

NOTES:

- 1. PAVEMENT BUILD-UP AT INTERSECTION SHALL BE THE SAME EXCEPT WITH CURB. SEE INTERSECTION DETAIL SHEET.
- 2. ALL WIDTH THAT "VARIES" - TRANSITIONS AT A CONSTANT RATE.

I:\PROJECTS\Log\347\0228\Honda Entrance\sheet\98211G\Y001.dgn 30-JUN-2014 10:07AM rhanke



**UTILITIES**

THERE ARE LIMITED UNDERGROUND UTILITIES SHOWN IN THIS PLAN BASED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UNDERGROUND UTILITIES PROTECTION SERVICES LISTED ON THE TITLE SHEET PRIOR TO BEGINNING ANY WORK

**EXISTING PLANS**

EXISTING PLANS MAY BE INSPECTED AT THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 7 OFFICES IN SIDNEY, OHIO.

**SURVEYING PARAMETERS**

USE THE FOLLOWING VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

**VERTICAL POSITIONING**

ORTHOMETRIC HEIGHT DATUM: NAVD 88  
GEOID: 12A

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD83 (2011)  
ELLIPSOID: GRS 80  
MAP PROJECTION: LAMBERT CONIC CONFORMAL  
COORDINATE SYSTEM: OHIO NORTH 3401  
COORDINATES PROVIDED ARE GRID COORDINATES

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

**ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER**

AN ESTIMATED QUANTITY OF 2 CU. YD. HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE PLACED WHERE WATER DRAINS AROUND THE INTERSECTION CURB RADIUS. THIS ASSUMES AN AREA OF APPROXIMATELY 4' BY 8' USING RCP TYPE C (6") AT A DEPTH OF 18".

**ITEM 609 - CURB, MISC.: LONGITUDINAL CHANNELIZER**

TO SEPARATE RIGHT-TURNING AND LEFT-TURNING TRAFFIC INTO THE HONDA FACILITY, A LONGITUDINAL CHANNELIZING SYSTEM IS NEEDED FOR A LENGTH SPECIFIED IN THE ESTIMATED QUANTITIES ON SHEET 16. THE CONTRACTOR SHALL CHOOSE FROM THE APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES FOR LONGITUDINAL CHANNELIZERS, HOWEVER THE INSTALLATION SHALL BE PERMANENT. USE THE FOLLOWING LINK TO THE APPROVED PRODUCTS LIST:  
[HTTP://WWW.DOT.STATE.OH.US/DIVISIONS/CONSTRUCTIONMGT/MATERIALS/PAGES/LONGITUDINAL-CHANNELIZERS.ASPX](http://www.dot.state.oh.us/divisions/constructionmgt/materials/pages/longitudinal-channelizers.aspx)

ALL COSTS ASSOCIATED WITH LABOR, EQUIPMENT AND MATERIALS NEEDED TO INSTALL THE SYSTEM SHALL BE INCLUDED IN ITEM 609 - CURB, MISC.: LONGITUDINAL CHANNELIZER.

**FARM DRAINS**

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

- 611 6" CONDUIT, TYPE B 100 FT.
- 611 6" CONDUIT, TYPE F 50 FT.

**EXISTING UNDERDRAINS**

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

PAYMENT SHALL ONLY BE MADE FOR QUANTITIES THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

- 601 - TIED CONCRETE BLOCK MAT, TYPE 1 4 SQ. YD.
- 611 - 6" CONDUIT, TYPE F 200 FT.
- 611 - PRECAST REINFORCED CONCRETE OUTLET 2 EACH
- 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS 25 FT.

**SEEDING AND MULCHING**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	487 CU YD
659, SEEDING AND MULCHING	4,386 SQ YD
659, REPAIR SEEDING AND MULCHING	219 SQ YD
659, INTERSEEDING	219 SQ YD
659, COMMERCIAL FERTILIZER	0.42 TON
659, LIME	0.91 ACRES
659, WATER	24 M. GAL

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

I:\PROJECTS\Log\347\0228\Honda Entrance\sheets\98211GN001.dgn 30-JUN-2014 10:07AM rhanke

CALCULATED  
RPH  
CHECKED

GENERAL NOTES

LOG - 347 - 2.28

**ITEM 614, MAINTAINING TRAFFIC**

EASTBOUND S.R. 347 MAY BE REDUCED TO ONE LANE IN ORDER TO CONSTRUCT THE BEGINNING OF THE RIGHT TURN LANE AS LONG AS A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION IS MAINTAINED ON S.R. 347 AT THE INTERSECTION AS WELL AS ACCESS TO "GATE N" IN/OUT OF THE HONDA FACILITY AT ALL TIMES BY USE OF EXISTING, PROPOSED, OR TEMPORARY PAVEMENT AS SHOWN ON SHEET 6.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL CONTACT THE LOGAN COUNTY ENGINEER'S OFFICE (937) 592-2791 AND THE ODOT DISTRICT 7 ROADWAY SERVICE OFFICE (937) 497-6890 A MINIMUM OF 7 CALENDAR DAYS PRIOR TO INTENDED LANE RESTRICTIONS/ROAD CLOSURES TO ALLOW SUFFICIENT TIME FOR THE NECESSARY COORDINATION.

ALL ASPHALT/PAVEMENT AND SAFETY RELATED ITEMS (I.E. PAVEMENT MARKINGS, SIGNING, SIGNALS) SHALL BE COMPLETED ON OR BEFORE OCTOBER 15, 2014 WITH THE REMAINING WORK (I.E. LIGHTING, SEEDING AND MULCHING) SHALL BE COMPLETED BY NOVEMBER 15, 2014 UNLESS AN EXTENSION IS PERMITTED BY THE ENGINEER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**INTERIM COMPLETION DATE**

THE ENTIRE PROJECT EXCEPT INSTALLING THE PROPOSED HIGHWAY LIGHTING SHALL BE COMPLETED PRIOR TO THE END OF THE DAY 10/31/2014. WHILE WAITING ON DELIVERY OF POLES, ALL OTHER HIGHWAY LIGHTING WORK MAY BE COMPLETED INCLUDING ANY TRENCHING OR FOUNDATIONS. HIGHWAY LIGHTING WORK SHALL BE COMPLETED WITHIN 30 DAYS OF THE CONTRACTORS RECEIPT OF POLES. TO INSURE THIS DATE IS MET THE INVOICE ACCOMPANYING THE POLES SHALL BE PROVIDED TO THE ENGINEER FOR VERIFICATION. BOTH THE DATES, 10/31/2014 AND 30 DAYS BEYOND THE RECEIPT OF HIGHWAY LIGHTING POLES ARE TO BE CONSIDERED INTERIM COMPLETION DATES. LIQUIDATED DAMAGES SHALL BE ACCESSED IN ACCORDANCE WITH CM&S 108.07 PER DAY FOR EACH CALENDAR DAY THE PROJECT IS NOT COMPLETE.

**TRENCH FOR WIDENING**

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

**OVERNIGHT TRENCH CLOSING**

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 5 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK

**ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE ODOT INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CM&S 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF CM&S 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS

**ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT...)**

FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 24 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

**MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK ACCEPTED.
2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL

**MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION (CONTINUED...)**

OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT, THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR LOGAN COUNTY FOR POLICE SERVICES AND MAINTENANCE SERVICES BY COUNTY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE REVISIONS TO THE SIGNAL SYSTEM.

WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 4 HOURS AND SHALL NOT INCLUDE THE HOURS OF 5:30 TO 7:30 AM, 2:00 TO 6:00 PM, AND 12 MIDNIGHT TO 2:00 AM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS, EXCEPT FOR THE FOLLOWING INTERSECTIONS WHICH SHALL BE PROTECTED BY OFF-DUTY POLICE, HIRED BY THE CONTRACTOR.

1. S.R. 347 & HONDA ENTRANCE DRIVE
- ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;
2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;
4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;
5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

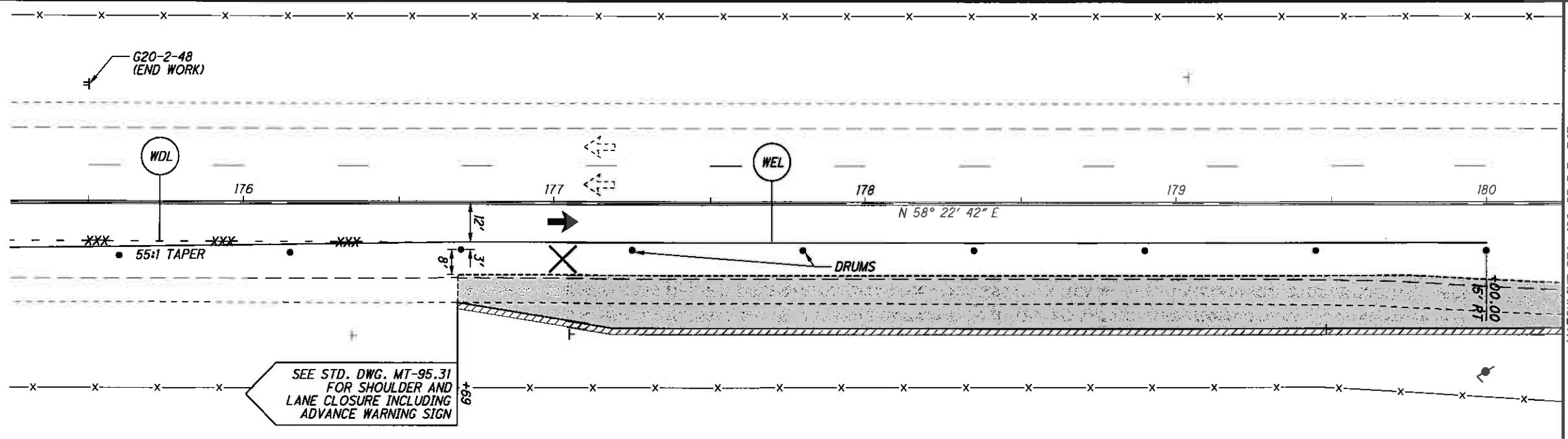
I:\PROJECTS\LOG\347\0228\Honda Entrance\sheet\98211M\001.dgn 30-JUN-2014 10:07AM rhanke

MAINTENANCE OF TRAFFIC NOTES

CALCULATED  
RPH  
CHECKED

LOG-347-2.28



I:\PROJECTS\Log\347\0228\Honda Entrance\sheets\9821MP001.dgn 30-JUN-2014 10:08AM rhanke

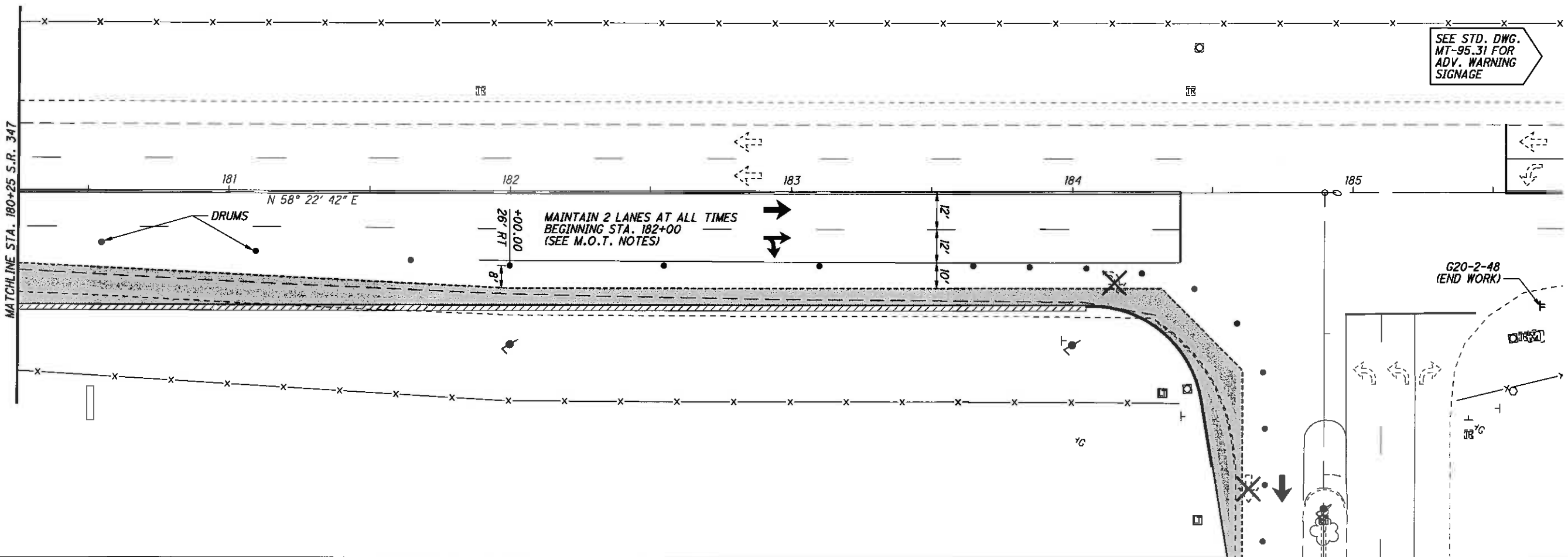


ALL ITEMS NEEDED FOR MT-95.31 SHALL BE INCLUDED IN ITEM 614, MAINTAINING TRAFFIC

WDL = WORK ZONE DOTTED LINE  
WEL = WORK ZONE EDGE LINE

**LEGEND**

-  FULL-DEPTH LANE/SHOULDER RECONSTRUCTION
-  ITEM 617 - 2' COMPACTED AGGREGATE SHOULDER



MATCHLINE STA. 180+25 S.R. 347

CALCULATED 0  
RPH  
CHECKED

HORIZONTAL SCALE IN FEET

**MAINT. OF TRAFFIC - S.R. 347**  
**PLAN SHEET**

**LOG-347-2.28**

SHEET NUMBER								PARTICIPATION				ALT.	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	9	12-15	17	20	21					(X)							
																ROADWAY		
		930										201	11000	LUMP		CLEARING AND GRUBBING		
		60										202	23000	930	SQ YD	PAVEMENT REMOVED		
												202	32000	60	FT	CURB REMOVED		
			352									203	10000	352	CU YD	EXCAVATION		
			270									203	20000	270	CU YD	EMBANKMENT		
		1264										204	10000	1264	SO YD	SUBGRADE COMPACTION		
																EROSION CONTROL		
4												601	21050	4	SQ YD	TIED CONCRETE BLOCK MAT, TYPE 1		
2												601	32204	2	CU YD	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER		
2												659	00100	2	EACH	SOIL ANALYSIS TEST		
487												659	00300	487	CU YD	TOPSOIL		
4386												659	10000	4386	SQ YD	SEEDING AND MULCHING		
219												659	14000	219	SQ YD	REPAIR SEEDING AND MULCHING		
219												659	15000	219	SQ YD	INTER-SEEDING		
0.42												659	20000	0.42	TON	COMMERCIAL FERTILIZER		
0.91												659	31000	0.91	ACRE	LIME		
24												659	35000	24	M GAL	WATER		
												832	30000	1000	EACH	EROSION CONTROL		
																DRAINAGE		
25												605	13300	25	FT	6" UNCLASSIFIED PIPE UNDERDRAINS		
100												611	00900	100	FT	6" CONDUIT, TYPE B		
250												611	01500	250	FT	6" CONDUIT, TYPE F		
2												611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET		
																PAVEMENT		
		292										301	46000	292	CU YD	ASPHALT CONCRETE BASE, PG64-22		
		203										304	20000	203	CU YD	AGGREGATE BASE		
		47										407	14000	47	GALLON	TACK COAT FOR INTERMEDIATE COURSE		
		57										448	46050	57	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22		
		41										448	47020	41	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22		
		83										609	26000	83	FT	CURB, TYPE 6		
				190								609	98000	190	FT	CURB, MISC.: LONGITUDINAL CHANNELIZER	4	
		28										617	10100	28	CU YD	COMPACTED AGGREGATE		
																LIGHTING		
						10						625	00450	10	EACH	CONNECTION, FUSED PULL APART		
						7						625	00480	7	EACH	CONNECTION, UNFUSED PERMANENT		
						4						625	10490	4	EACH	LIGHT POLE, CONVENTIONAL DESIGN, TYPE AT 15, B40		
						1						625	10490	1	EACH	LIGHT POLE, CONVENTIONAL DESIGN, TYPE AT 20, B40		
						5						625	14100	5	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP		
						2469						625	23200	2469	FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE		
						330						625	23200	330	FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE, AS PER PLAN	21	
						560						625	23400	560	FT	NO. 10 AWG POLE AND BRACKET CABLE		
						508						625	25400	508	FT	CONDUIT, 2", 725.04		
						255						625	25902	255	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"		
						100						625	25910	100	FT	CONDUIT CLEANED AND CABLES REMOVED		
						5						625	26251	5	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	21	
						508						625	29002	508	FT	TRENCH, 24" DEEP		
						3						625	30700	3	EACH	PULL BOX, 725.08, 18"		
						1						625	31511	1	EACH	PULL BOX REMOVED, AS PER PLAN	21	
						5						625	32000	5	EACH	GROUND ROD		
						508						625	36000	508	FT	PLASTIC CAUTION TAPE		
						1						625	75402	1	EACH	LIGHT POLE REMOVED FOR STORAGE		
						1						625	75501	1	EACH	LIGHT POLE FOUNDATION REMOVED, AS PER PLAN	21	
						1						625	75504	1	EACH	LUMINAIRE REMOVED FOR STORAGE		

I:\PROJECTS\log\347\0228\Honda Entrance\sheet\9821CG001.dgn 30-JUN-2014 10:08AM rthonke

GENERAL SUMMARY (1/2)

LOG-347-2.28

CALCULATED  
RPH  
CHECKED

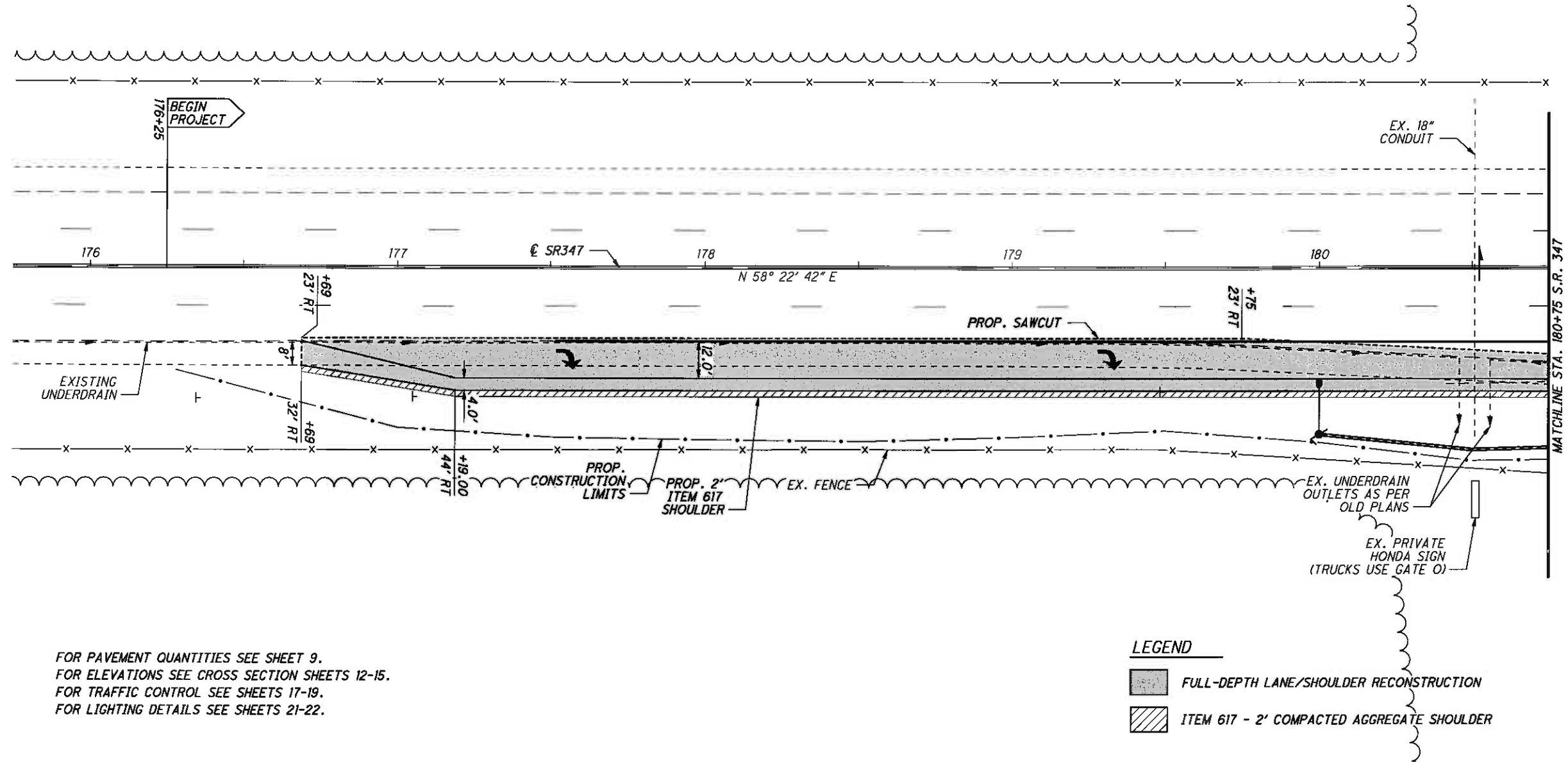
7  
22



I:\PROJECTS\log\347\0228\Honda Entrance\sheet\98216S001.dgn 30-JUN-2014 10:08AM rhanke



STATION TO STATION S.R. 347 UNLESS OTHERWISE NOTED		SIDE	LENGTH, L	AVERAGE WIDTH, W	SURFACE AREA, A A = L X W	PLANIMETERED AREAS	202	202	204	301	304		407	448	448	609	617				
			FT	FT	SQ FT	SQ FT	SQ YD	SQ YD	SQ YD	CU YD	CU YD		GAL	CU YD	CU YD	FT	CU YD				
176+69.00	184+61.00	RT	792.00	-	-	8365	930														
176+69.00	177+19.00	RT	50.00	13	650.0	-							3	4	3						
			50.00	13.3333	666.7	-				19											
			50.00	13.8333	691.7	-					13										
			50.00	14.5	725.0	-			81												
177+19.00	179+75.00	RT	256.00	17	4352.0	-							20	24	17						
			256.00	17.3333	4437.3	-				124											
			256.00	17.8333	4565.3	-					85										
			256.00	18.5	4736.0	-			527												
179+75.00	182+00.00	RT	225.00	11.5	2587.5	-							12	14	10						
			225.00	11.8333	2662.5	-				74											
			225.00	12.3333	2775.0	-					52										
			225.00	13	2925.0	-			325												
182+00.00	184+07.37	RT	207.37	6	1244.2	-							6	7	5						
			207.37	6.3333	1313.3	-				37											
			207.37	6.8333	1417.0	-					27										
			207.37	7.5	1555.3	-			173												
0+34.00 (HONDA ENTRANCE)	1+45.00 (HONDA ENTRANCE)	RT	111.00	-	-	1346							6	8	6						
			111.00	-	-	1362				38											
			111.00	-	-	1386					26										
			111.00	-	-	1418			158												
176+69.00	184+04.95	RT	735.95	2	1471.9	-														28	
184+04.95	0+97.00 (HONDA ENTRANCE)	RT	83	-	-	-		60													
TOTALS CARRIED TO GENERAL SUMMARY							930	60	1264	292	203		47	57	41	83	28				

I:\PROJECTS\Log\347\0228\Honda Entrance\sheets\98210P001.dgn 30-JUN-2014 10:08AM rhanke



FOR PAVEMENT QUANTITIES SEE SHEET 9.  
 FOR ELEVATIONS SEE CROSS SECTION SHEETS 12-15.  
 FOR TRAFFIC CONTROL SEE SHEETS 17-19.  
 FOR LIGHTING DETAILS SEE SHEETS 21-22.

**LEGEND**

-  FULL-DEPTH LANE/SHOULDER RECONSTRUCTION
-  ITEM 617 - 2' COMPACTED AGGREGATE SHOULDER

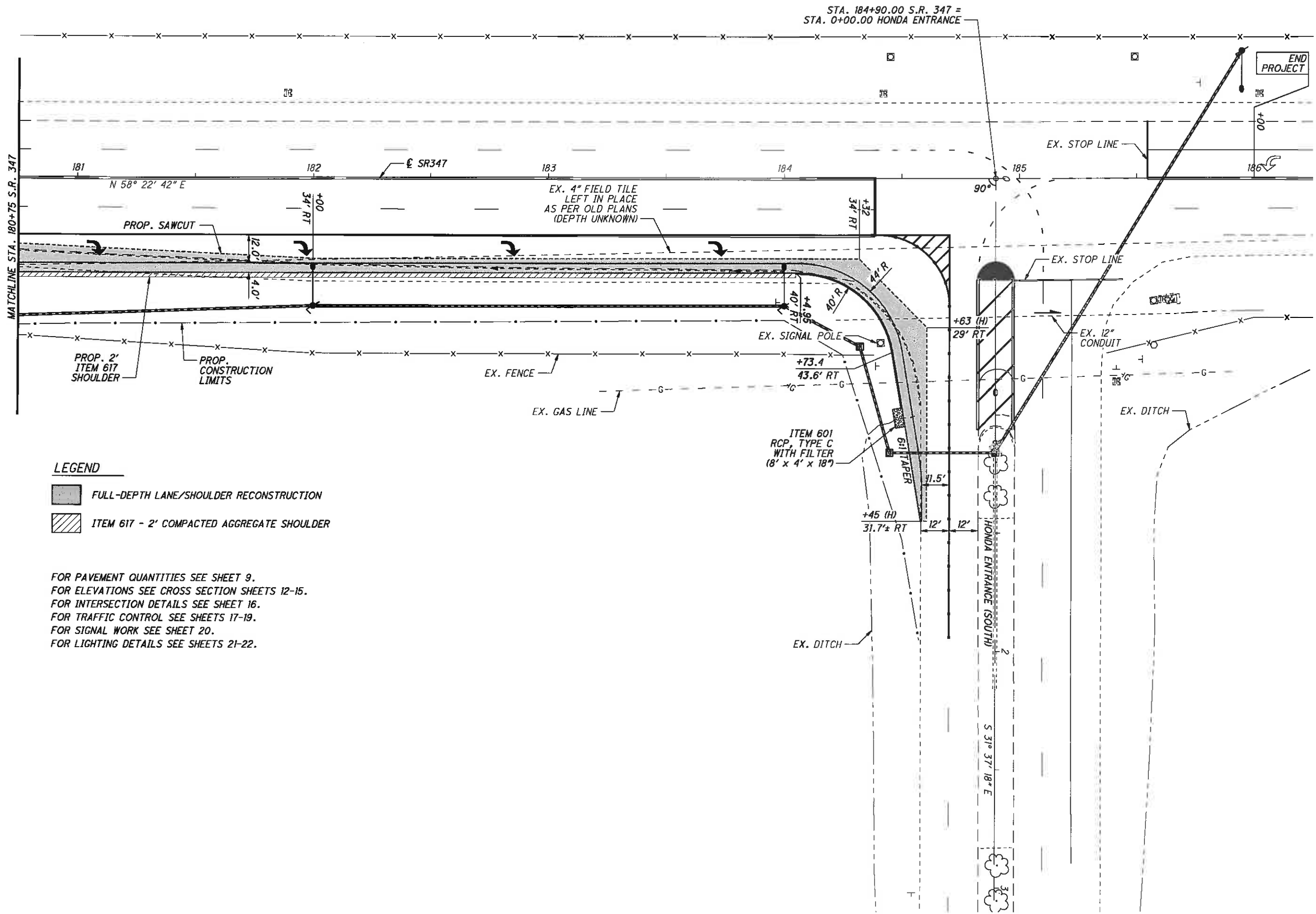
CALCULATED RPH CHECKED

0 20 40  
 HORIZONTAL SCALE IN FEET

**PLAN SHEET - S.R. 347**  
**STA. 175+75.00 TO 180+75.00**

**LOG-347-2.28**





**LEGEND**

- FULL-DEPTH LANE/SHOULDER RECONSTRUCTION
- ITEM 617 - 2' COMPACTED AGGREGATE SHOULDER

FOR PAVEMENT QUANTITIES SEE SHEET 9.  
 FOR ELEVATIONS SEE CROSS SECTION SHEETS 12-15.  
 FOR INTERSECTION DETAILS SEE SHEET 16.  
 FOR TRAFFIC CONTROL SEE SHEETS 17-19.  
 FOR SIGNAL WORK SEE SHEET 20.  
 FOR LIGHTING DETAILS SEE SHEETS 21-22.

N

20  
10  
0  
HORIZONTAL SCALE IN FEET

CALCULATED 0  
RPH  
CHECKED

**PLAN SHEET - S.R. 347**  
**STA. 180+75.00 TO 185+75.00**









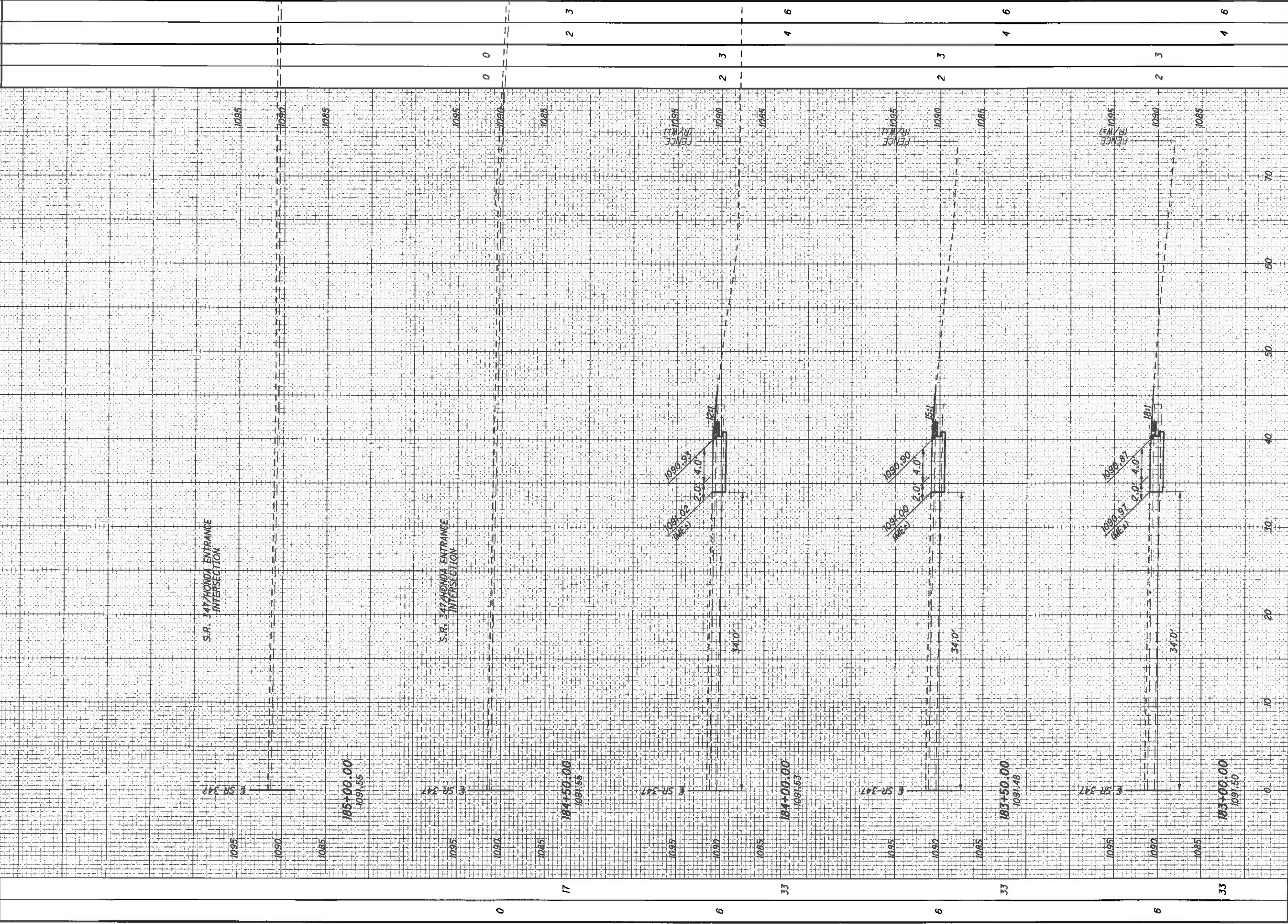






SEEDING  
END  
G.C.  
WIDTH 105'

END AREA VOLUME  
CUT FILL CUT FILL



735

15  
22

LOG-347-2.28



CROSS SECTIONS - S.R. 347  
STA. 183+00.00 TO STA. 185+00.00

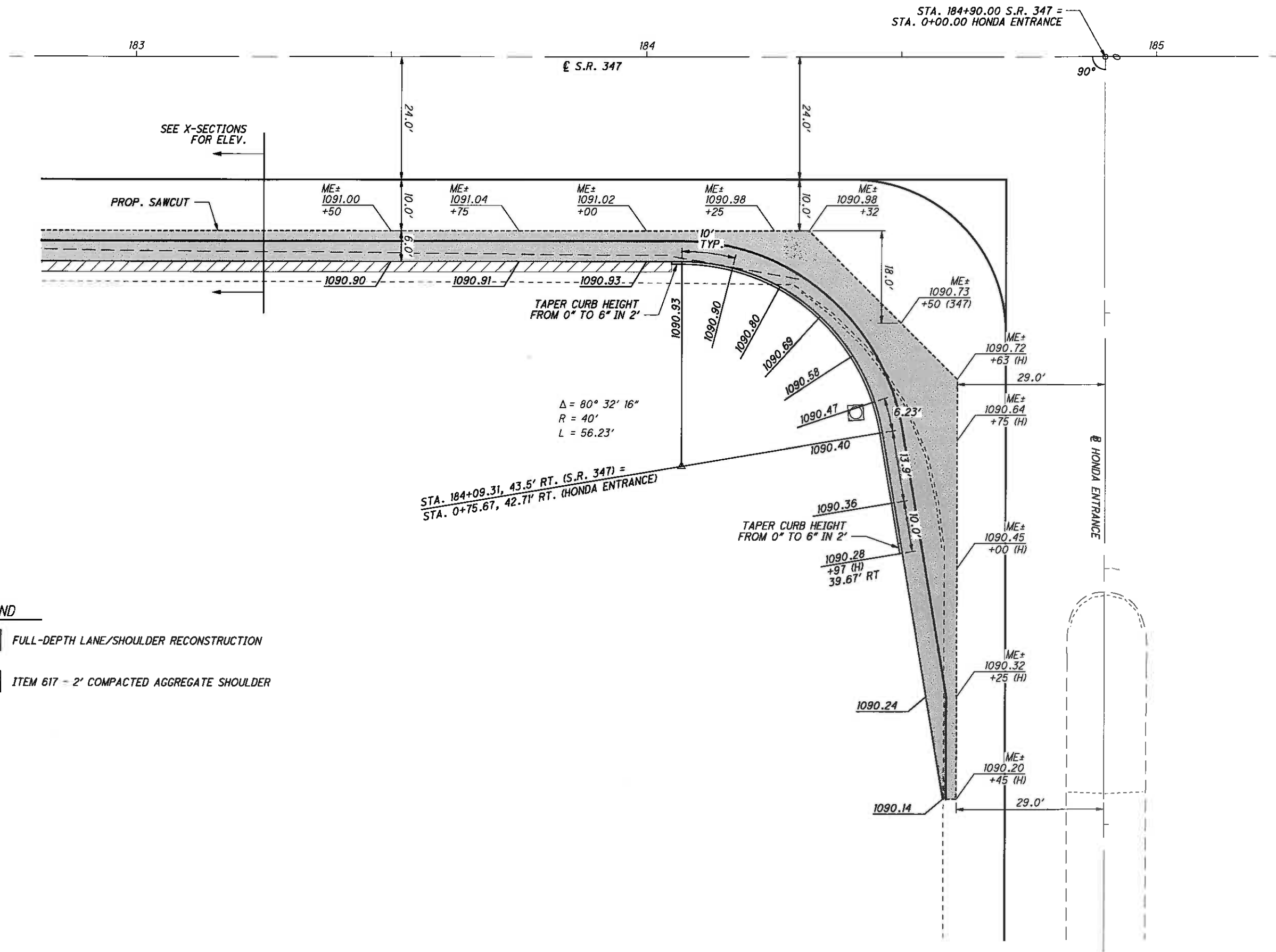
29 44

CALCULATED  
RPH  
CHECKED

I:\PROJECTS\Log\347\02228\Honda Entrance\sheets\982116\001.dgn 30-JUN-2014 10:09AM rhanke

**LEGEND**

-  FULL-DEPTH LANE/SHOULDER RECONSTRUCTION
-  ITEM 617 - 2' COMPACTED AGGREGATE SHOULDER



STA. 184+90.00 S.R. 347 =  
STA. 0+00.00 HONDA ENTRANCE

€ S.R. 347

@ HONDA ENTRANCE

$\Delta = 80^\circ 32' 16''$   
 $R = 40'$   
 $L = 56.23'$

STA. 184+09.31, 43.5' RT. (S.R. 347) =  
STA. 0+75.67, 42.71' RT. (HONDA ENTRANCE)

CALCULATED  
RPH  
CHECKED

0 5 10 20  
HORIZONTAL  
SCALE IN FEET

**INTERSECTION DETAILS  
S.R. 347 & HONDA ENTRANCE**

**LOG-347-2.28**

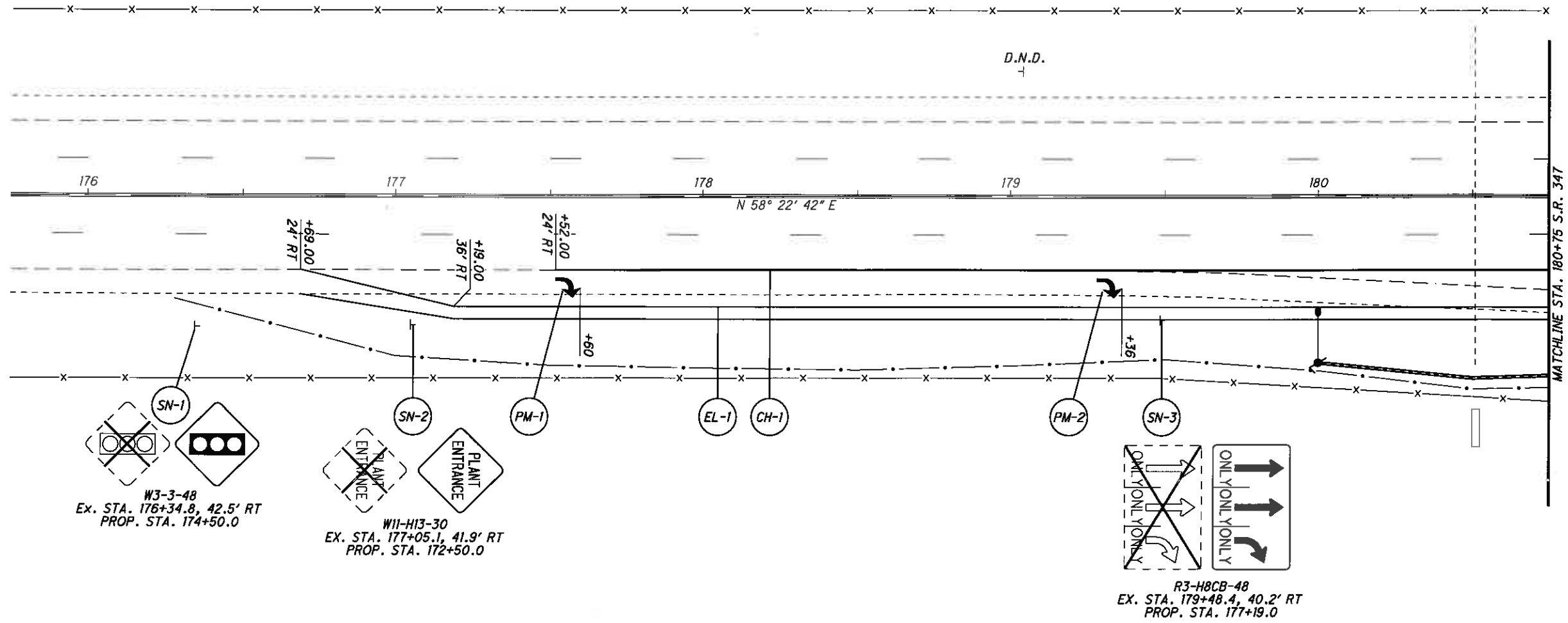
I:\PROJECTS\Log\_347\0228\Honda Entrance\sheet\98211TS001.dgn 30-JUN-2014 10:10AM rhanke

REF. NO.	SHEET NO.	STATION		SIDE	609	621	621	621	642	642	642	644	644	644	644	644	644	644			
		FROM	TO		CURB, MISC.: LONGITUDINAL CHANNELIZER	RPM (WHITE)	RPM (WHITE/RED)	RAISED PAVEMENT MARKER, REMOVED	EDGE LINE, 4"	CENTER LINE	REMOVAL OF PAVEMENT MARKING	CHANNELIZING LINE 8"	STOP LINE	TRANSVERSE/DIAGONAL LINE (WHITE)	TRANSVERSE/DIAGONAL LINE (YELLOW)	ISLAND MARKING (YELLOW)	DOTTED LINE, 4" (WHITE)	DOTTED LINE, 4" (YELLOW)	LANE ARROW		
					FT	EACH	EACH	EACH	MILE	MILE	FT	FT	FT	FT	FT	SQ FT	FT	FT	EACH		
EL-1	18	176+69.00	184+06.89	RT					0.14												
	19	0+36.00	1+43.00	RT					0.03												
CH-1	18	177+52.00	184+70.50	RT							230	719									
CH-2	19	0+24.00	1+94.00	RT	190							218									
DL-1	19	184+37.56	185+10.00	BOTH													110				
DL-2	19	184+82.51	185+54.68	RT														100			
SL-1	19	184+38.68	-	RT									24								
CL-1	19	0+43.13	1+06.13	BOTH					0.03	70											
TL-1	19	184+50.00	184+70.50	RT										46							
TL-2	19	0+43.13	1+06.13	BOTH										110							
IM-1	19	0+35.00	0+43.00	BOTH											100						
PM-1	18	177+60.00	-	RT																	1
PM-2	18	179+36.00	-	RT																	1
PM-3	19	181+12.00	-	RT																	1
PM-4	19	182+00.00	-	RT																	1
PM-5	19	182+88.00	-	RT																	1
PM-6	19	183+76.00	-	RT																	1
SUBTOTAL						15	19	20						46	110		110	100			
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					190	34		20	0.17	0.03	300	937	24	156	100		210		6		

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630	630	630	630	630	630								
							GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN HANGER ASSEMBLY, SPAN WIRE	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL								
							FT	EACH	SQ FT	EACH	EACH	EACH								
18	SN-1	S.R. 347	177+05.10	RT	W3-3	48" x 48"	12.5' / 12.5'			16	1				2					
18	SN-2	S.R. 347	177+05.10	RT	W11-H13	30" x 30"	11' / 11'			6.3	1				2					
18	SN-3	S.R. 347	179+48.40	RT	R3-H8CB	48" x 30"	11.5' / 11.5'			10	1				2					
19	SN-4	S.R. 347	183+96.50	RT	R3-H8CB	48" x 30"	11.5' / 11.5'				1				2					
19	SN-5	S.R. 347	184+00.00	RT	R10-H5B	24" x 30"	11' / 11'			5										
19	SN-6	S.R. 347	184+39.10	RT	PRIVATE	NON-STD	9' / 9'						1		2					
19	SN-7	S.R. 347	FOR LOCATION SEE SIGNAL SHEET	RT	R3-5R	30" x 36"				1	7.5									
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>							133	1	45	4	1	10								

CALCULATED RPH CHECKED BAB  
**TRAFFIC CONTROL ESTIMATED QUANTITIES**  
**LOG-347-2.28**  
 17  
 22

D.N.D. = DO NOT DISTURB



CALCULATED RPH  
CHECKED BAB

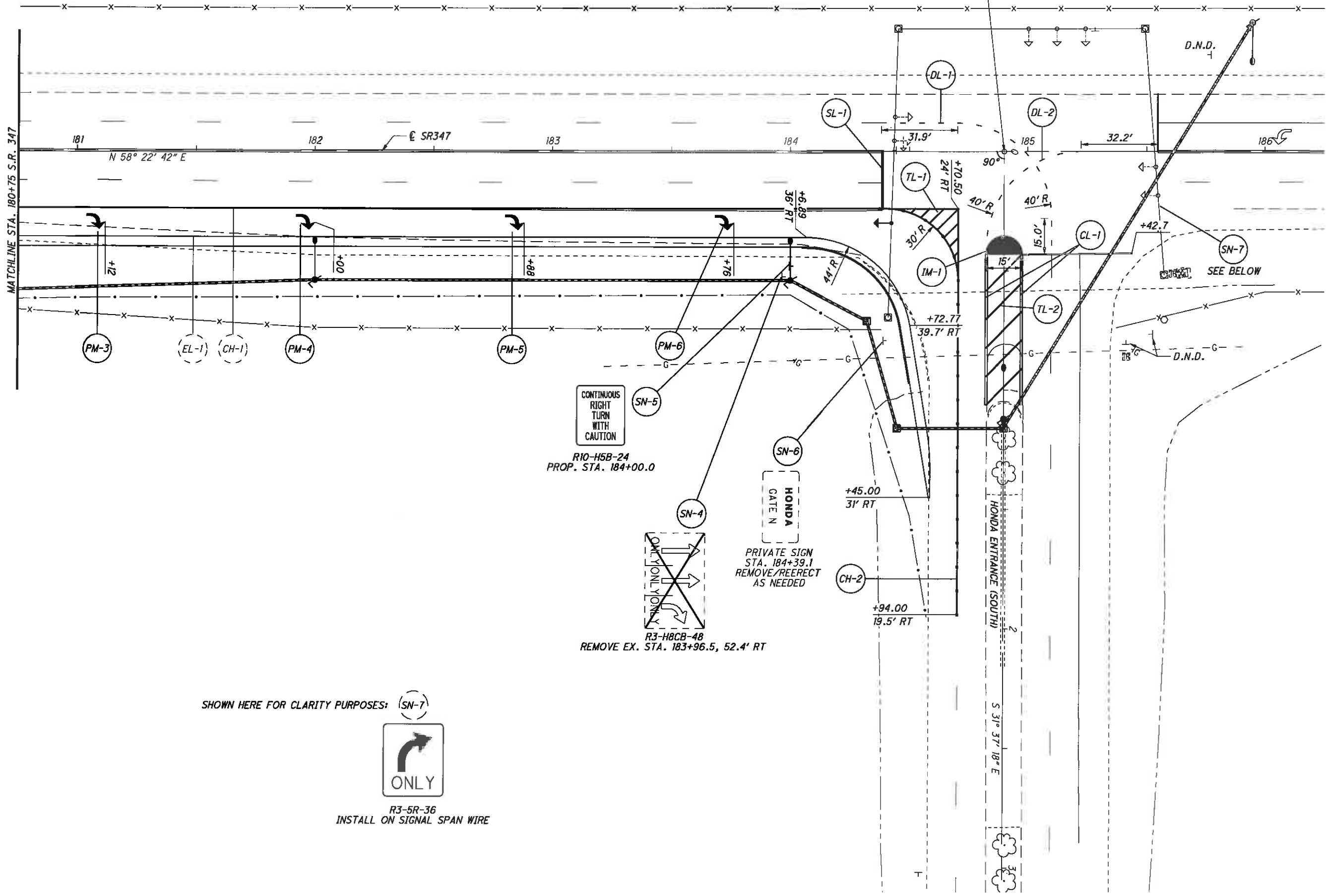
0 20 40  
HORIZONTAL SCALE IN FEET

TRAFFIC CONTROL - S.R. 347  
STA. 175+75.00 TO 180+75.00

LOG - 347 - 2.28

D.N.D. = DO NOT DISTURB

STA. 184+90.00 S.R. 347 =  
STA. 0+00.00 HONDA ENTRANCE



SHOWN HERE FOR CLARITY PURPOSES: (SN-7)



R3-5R-36  
INSTALL ON SIGNAL SPAN WIRE

CALCULATED RPH  
CHECKED BAB

0 10 20 40  
HORIZONTAL SCALE IN FEET

TRAFFIC CONTROL - S.R. 347  
STA. 180+75.00 TO 185+75.00

LOG-347-2.28

I:\PROJECTS\Log\_347\0228\Honda Entrance\sheets\98211TP002.dgn 30-JUN-2014 10:10AM rhanke



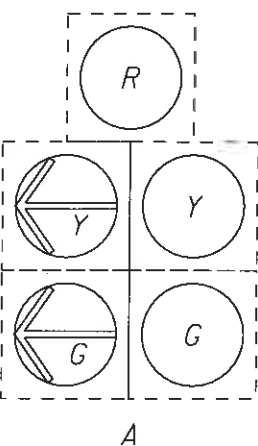
**ITEM 632 - VEHICULAR SIGNAL HEAD, (LED), 1 SECTION, 12" LENS, 1 WAY, POLYCARBONATE, AS PER PLAN**

THE SIGNAL SHALL BE LOCATED AS PER THE LAYOUT SHOWN ON THIS SHEET. IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732, THE FOLLOWING SHALL APPLY:

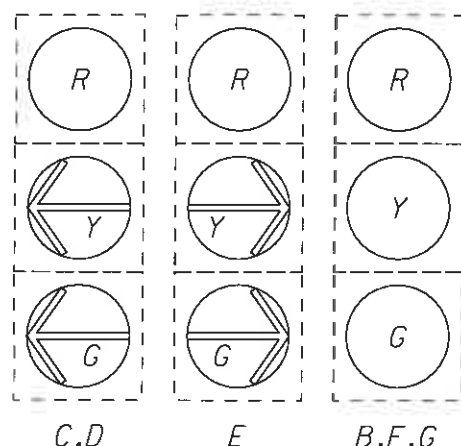
1. SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC WITH CUTAWAY VISORS AND MEET ITE SPECIFICATIONS.
2. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
3. ALL SIGNAL HEADS SHALL BE INSTALLED WITH THEIR LOWEST PART (INCLUDING BACKPLATES) ABOVE PAVEMENT AT THE CENTER OF THE ROADWAY WITH A CLEARANCE BETWEEN 16' AND 18'. IF NECESSARY FOR PROPER CLEARANCE, DROP PIPES ARE TO BE USED WITH ADJUSTABLE SIGNAL HANGERS AS DETAILED IN SCD TC-85.20. ALL UPPER SIGNAL SUPPORT HARDWARE AND PIPING UP TO AND INCLUDING THE WIRE INLET FITTING SHALL BE FERROUS METAL.
4. THE ENTRANCE FITTING SHALL BE OF THE TRI-STUD DESIGN WITH SERRATED RINGS IN ORDER TO ACHIEVE POSITIVE LOCKING.
5. ALUMINUM BACKPLATES WITH REFLECTIVE TAPE WILL BE IN ACCORDANCE WITH C&MS 732.22.
6. THE LIGHT EMITTING DIODE (LED) SIGNAL LAMP UNITS SHALL MEET THE REQUIREMENTS OF C&MS 732.04
7. THE SIGNAL HEAD WILL BE ATTACHED TO THE EXISTING MESSENGER WIRE AND HOOKED ONTO THE EXISTING TETHER.
8. PROPOSED SIGNAL HEAD H WILL BE CONTINUOUSLY ON AND WILL BE HOOKED DIRECTLY INTO THE POWER IN THE CABINET.
9. ALL WORK IN THE CONTROLLER CABINET WILL BE INCLUDED IN THIS ITEM.

**ITEM 632 - SIGNAL CABLE, 3 CONDUCTOR, NO 14 AWG, AS PER PLAN**

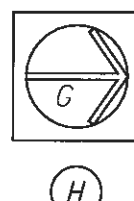
INSTALL SIGNAL CABLE FROM HEAD H TO THE SIGNAL CONTROL CABINET UTILIZING PROPOSED MESSENGER WIRE FROM P1 TO P4. THE REMOVING AND REINSTALLING OF THE EXISTING LASHING RODS WILL BE INCLUDED IN ITEM 632 - SIGNAL CABLE, 3 CONDUCTOR, NO 14 AWG, AS PER PLAN PAYMENT.



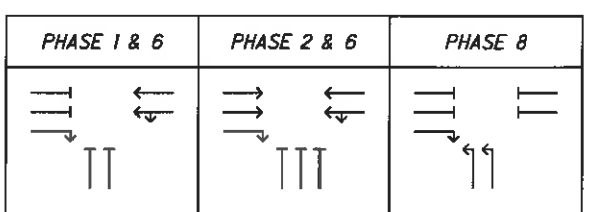
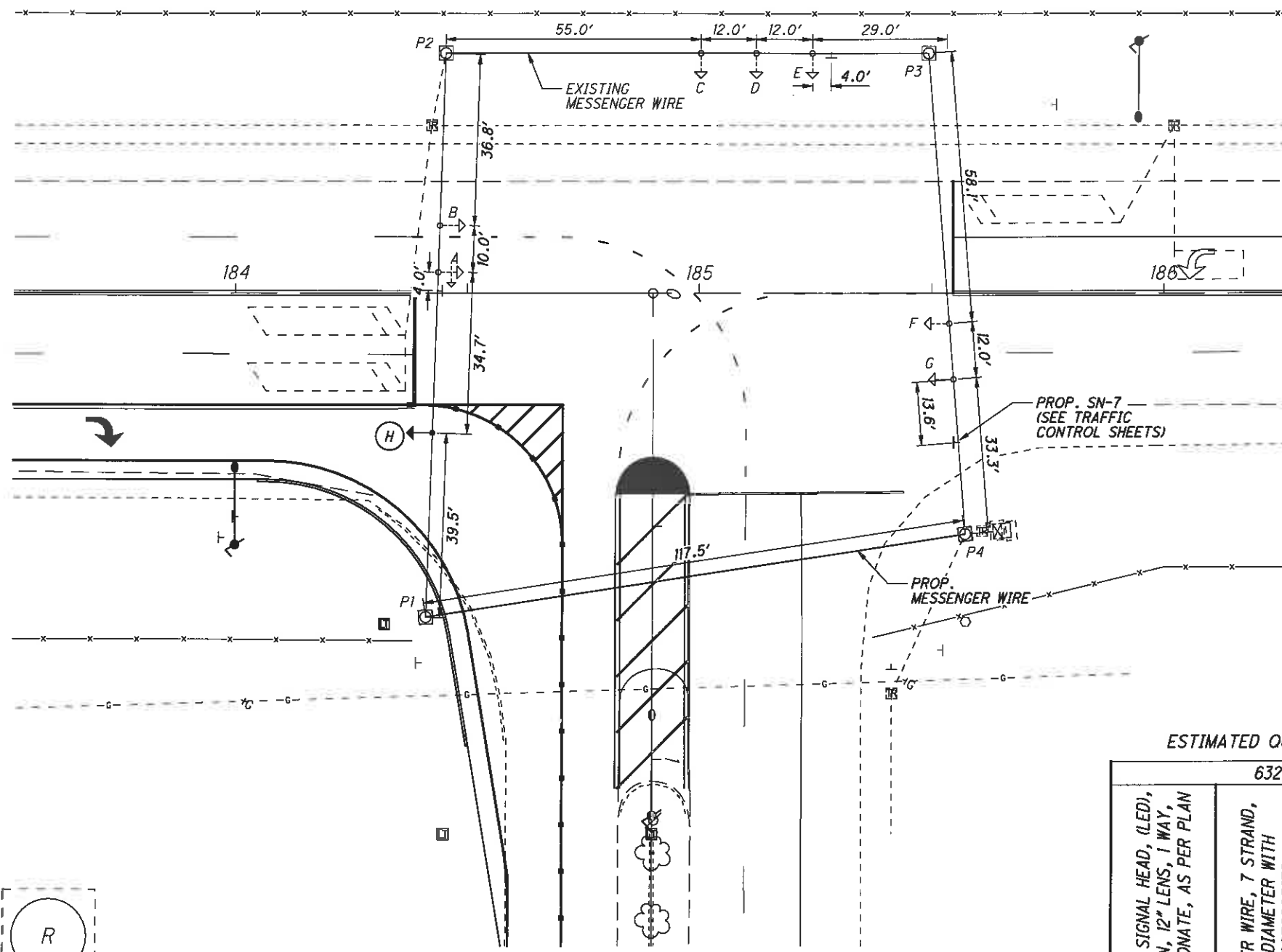
EX. 5-SECTION SIGNAL HEAD



EX. 3-SECTION SIGNAL HEAD



PROP. SIGNAL HEAD



NOTE: SIGNAL HEAD "H" WILL BE CONTINUOUSLY ON AND HOOKED UP DIRECTLY INTO THE POWER.

NOTE: ALL EXISTING MESSENGER WIRE DISTANCES ARE BASED ON A COMBINATION OF EXISTING PLANS AND SURVEY. THE CONTRACTOR SHALL VERIFY DISTANCES AND NOTIFY THE ENGINEER OF ANY VARIANCES FOR POTENTIAL SPAN WIRE RE-ANALYSIS.



**SIGNAL SHEET  
DETAILS AND QUANTITIES**

ESTIMATED QUANTITIES		
632		
VEHICULAR SIGNAL HEAD, (LED), 1 SECTION, 12" LENS, 1 WAY, POLYCARBONATE, AS PER PLAN	EACH	1
MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	FT	118
SIGNAL CABLE, 3 CONDUCTOR, NO 14 AWG, AS PER PLAN	FT	217

I:\PROJECTS\Log\347\0228\Honda Entrance\sheet\98211CP001.dgn 30-JUN-2014 10:10AM rhanke

REF.	SHEET	STATION		SIDE	625																			
		FROM	TO		CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PERMANENT	LIGHT POLE CONVENTIONAL DESIGN, TYPE AT 15, B40	LIGHT POLE CONVENTIONAL DESIGN, TYPE AT 20, B40	LIGHT POLE FOUNDATION, 24" X 8" DEEP	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE, AS PER PLAN	NO. 10 AWG POLE AND BRACKET CABLE	CONDUIT, 2", 725.04	CONDUIT, JACKED OR DRILLED, 725.04, 3"	CONDUIT, CLEANED AND CABLES REMOVED	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	TRENCH, 24" DEEP	PULL BOX, 725.08, 18"	PULL BOX REMOVED, AS PER PLAN	GROUND ROD	PLASTIC CAUTION TAPE	LIGHT POLE REMOVED FOR STORAGE	LIGHT POLE FOUNDATION REMOVED, AS PER PLAN	LUMINAIRE REMOVED FOR STORAGE
					EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH
1	22	180+00		54' RT	2		1		1			110			1				1					
2	22	180+00	182+00	54' RT						645			205				205				205			
3	22	182+00		54' RT	2		1		1			110			1				1					
4	22	182+00	184+00	54' RT						645			205				205				205			
5	22	184+00		54' RT	2		1		1			110			1				1					
6	22	184+00	184+32	RT						156			42				42				42			
7	22	184+32		71' RT													1							
8	22	184+32	184+45	RT						186			52				52				52			
9	22	184+45		116' RT													1							
10	22	184+45	184+90	116' RT						165				50										
11	22	184+90		216' RT																				
12	22	184+90	194+90	RT								330												
13	22	184+90		116' RT			6										1	1						
14	22	184+90	184+90							42			4				4				4			
15	22	184+90		113' RT	2				1			120			1				1			1	1	1
16	22	184+90	185+95							630				205										
17	22	185+95		54' LT	2		1		1			110			1				1					
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					10	7	4	1	5	2469	330	560	508	255	100	5	508	3	1	5	508	1	1	1

**625- LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN**

THIS ITEM CONSISTS OF INSTALLING A LUMINAIRE ON A LIGHT POLE AT THE POSITION INDICATED ON THE PLANS. FURNISH NEW MATERIALS AND EQUIPMENT OF FIRST QUALITY, OF CURRENT DESIGN, AND FREE FROM DEFECTS. ENSURE THE LUMINAIRE IS LEVEL AND ALIGNED VERTICALLY AND HORIZONTALLY TO THE ROADWAY AS SPECIFIED. THE LUMINAIRE SUPPLIED SHALL BE CREE LEDWAY HO. MODEL STR\_LWY\_2ME\_HT\_2-F-UL-SV-A\_40K. THE LED WILL BE SILVER AND ODOT STANDARD COLOR TEMPERATURE OF 4000K. THE LUMINAIRES SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATIONS.

**ENVIRONMENTAL**

LUMINAIRE OPERATING TEMPERATURE SHALL INCLUDE THE RANGE -20°C TO 40°C, WITH NO L<sub>d</sub> DE-RATING FROM -20°C THROUGH 25°C, PER ANSI/NEMA C136.37. OPERATING HUMIDITY SHALL INCLUDE THE RANGE 0% TO 90% RH, NON-CONDENSING, WITHOUT DE-RATING.

**ELECTRICAL**

ASSURE THE DRIVER MODULE IS UL LISTED AS COMPLYING WITH ANSI/UL 8750 CATEGORY FKS22, DRIVERS FOR LIGHT-EMITTING-DIODE ARRAYS, MODULES, AND CONTROLLERS. ASSURE DRIVER INGRESS PROTECTION RATING IS IP65, MINIMUM. DRIVER MODULE SHALL BE 1) AUTOSENSING OVER THE NOMINAL 120VAC TO 277VAC NOMINAL OPERATING RANGE, OR 2) 480VAC NOMINAL, AS REQUIRED ELSEWHERE IN THE DETAILS OF THE PLANS. DRIVER MODULE INPUTS SHALL BE FLOATING TO ACCOMMODATE PHASE-TO-PHASE INPUTS. THE CURRENT TOTAL HARMONIC DISTORTION MEASURED AT THE LUMINAIRE INPUT TERMINALS SHALL BE LESS THAN 15% FOR VOLTAGES LESS THAN 277VAC AND LESS THAN 20% FOR VOLTAGES 277VAC OR HIGHER. THE TURN-ON INRUSH CURRENT SHALL BE LESS THAN THIRTY (30) TIMES THE NOMINAL LOAD CURRENT. TERMINAL BLOCKS SHALL MEET THE PROVISIONS OF ANSI/NEMA C136.37 PART II AND SHALL INCLUDE A GROUND TERMINAL. NONCURRENT-CARRYING METAL PARTS OF THE LUMINAIRE SHALL BE BONDED TO THE GROUND TERMINAL. DRIVER SHALL COMPLY WITH FCC TITLE 47 CFR 15 CLASS B ELECTRICAL INTERFERENCE EMISSION AND IMMUNITY REQUIREMENTS.

**625- LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (CONTINUED)**

**SURGE PROTECTIVE DEVICE (SPD)**

THE SURGE PROTECTIVE DEVICE USED TO PROTECT THE SOLID-STATE (LED) LUMINAIRE WHERE IT CONNECTS TO THE AC POWER SOURCE SHALL MEET THE FOLLOWING MINIMUM SPECIFICATIONS. PROVIDE DOCUMENTATION SHOWING AUTHORIZED UL 1449 LISTING OF THE SPD. IN ADDITION TO THE MANUFACTURER, MODEL NUMBER, AND UL 1449 MARK, THE FOLLOWING INFORMATION SHALL BE CLEARLY AND PERMANENTLY MARKED ON THE SPD DATA LABEL: ELECTRICAL RATINGS (OPERATING VOLTAGE, AC POWER FREQUENCY, LOAD CURRENT RATING FOR 2-PORT DEVICES, ETC.) VOLTAGE PROTECTION RATING (VPR) IN VOLTS, NOMINAL DISCHARGE CURRENT (I<sub>n</sub>) RATING IN AMPS OR KA, MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV) IN VOLTS, SHORT-CIRCUIT CURRENT RATING (SCCR) IN AMPS OR KA. THE SPD SHALL BE UL LISTED AS TYPE 2. THE OPERATING VOLTAGE OF THE SPD SHALL BE 90-345 VAC AUTOSENSING, 60 HZ, UNLESS SPECIFIED OTHERWISE IN THE PLANS. THE UL-ASSIGNED VPR SHALL BE NO HIGHER THAN 2000 VOLTS FOR ALL MODES, OR A HIGHER LEVEL CERTIFIED IN WRITING BY THE MANUFACTURER TO BE BELOW THE DAMAGE THRESHOLD FOR THE PROTECTED EQUIPMENT. FOR THIS TYPE 2 SPD, UL-ASSIGNED NOMINAL DISCHARGE CURRENT, I<sub>n</sub>, SHALL BE 10 KA. THE UL-ASSIGNED MAXIMUM CONTINUOUS OPERATING VOLTAGE, MCOV SHALL BE AT LEAST 420 VOLTS. FOR THE TYPE 2 SPD, THE UL-ASSIGNED SHORT CIRCUIT CURRENT RATING, SCCR SHALL BE AT LEAST 5 KA, ASYMMETRIC. THIS PARAMETER SHALL BE TESTED USING THE STANDARD WAVEFORMS CALLED FOR IN TABLE I, ANSI C.62.41.1 SECTIONS 4 THROUGH 7, AND MEETING OR EXCEEDING 15 KA. ASSURE HE SPD HAS AN EXPECTED LIFETIME OF AT LEAST 500 SURGES OF THE "STANDARD" WAVEFORMS IN TABLE I OF C.62.41.2 FOR THE LOCATION CATEGORY AND SCENARIO GIVEN ABOVE: SCENARIO 1, LOCATION CATEGORY C (HIGH)-10KV 1.2/50 US VOLTAGE WAVEFORM, 10KA 8/20 US CURRENT WAVEFORM.

PROTECTED MODES FOR SPDs IN SINGLE-PHASE CIRCUITS SHALL BE L-N, L-G, N-G. PROTECTED MODES IN MULTI-WIRE SINGLE-

**625- LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (CONTINUED)**

PHASE CIRCUITS SHALL BE L-L, L-G. INTERNAL FUSING SHALL BE SUPPLIED AS DETERMINED BY THE SPD MANUFACTURER. THE SPD SHALL OPERATE WITH NO PERFORMANCE DEGRADATION OVER A MINIMUM TEMPERATURE RANGE OF -20° C TO 40°C, 0-95% RH, NON-CONDENSING.

PROVIDE A WRITTEN 5 YEAR WARRANTY AGAINST MATERIAL OR WORKMANSHIP FAILURE FROM THE DATE OF ODOT DOCUMENTED ACCEPTANCE TO THE PROJECT. THE WARRANTY WILL NOT APPLY IN THE CASE OF A DIRECT LIGHTNING STRIKE TO THE STRUCTURE. SPDs ARE CONSIDERED SACRIFICIAL COMPONENTS UNDER NORMAL INSTALLED ROADWAY LIGHTING CONDITIONS AND ARE EXCLUDED FROM THE LUMINAIRE WARRANTY BELOW UNLESS A KNOWN OR DEMONSTRABLE SPD DESIGN OR MANUFACTURING FAILURE IS INDICATED.

**LUMINAIRE WARRANTY**

A WRITTEN WARRANTY SHALL BE PROVIDED FOR THE FULL REPLACEMENT OF THE LUMINAIRE DUE TO ANY DEFECTIVE ELECTRICAL PARTS OR DEFECTIVE ENCLOSURE PARTS FOR SIX (6) YEARS, MINIMUM. THE WARRANTY SHALL PROVIDE FOR THE REPAIR OR REPLACEMENT OF DEFECTIVE ELECTRICAL PARTS (INCLUDING LIGHT SOURCE AND POWER SUPPLIES/DRIVERS) FOR A MINIMUM OF TEN (10) YEARS FROM THE DATE OF PURCHASE. FAILURE OF MORE THAN 10% OF THE TOTAL NUMBER OF ORIGINAL INDIVIDUAL LED EMITTERS IN THE LED LIGHT SOURCE WITHIN 6 YEARS SHALL CONSTITUTE LUMINAIRE FAILURE.

**PAYMENT**

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

**625- NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE, AS PER PLAN**

THIS ITEM SHALL CONSIST OF INSTALLING NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE IN THE EXISTING CONDUIT FROM THE EXISTING PULL BOX 184+90, 216' RT TO THE NEW PULL BOX AT 184+90, 116' RT. THIS CONDUIT MUST BE CAREFULLY LOCATED. DAMAGE TO THE EXISTING LANDSCAPING AND DECORATIVE GRAVEL WILL REQUIRE RESTORATION TO BE PAID AS PART OF THIS ITEM. THE PROPOSED CABLE WILL BE CONNECTED IN THE EXISTING PULL BOX TO THE LABELED WIRES BY THE CONNECTION SPECIFIED.

**625- PULL BOX REMOVED, AS PER PLAN**

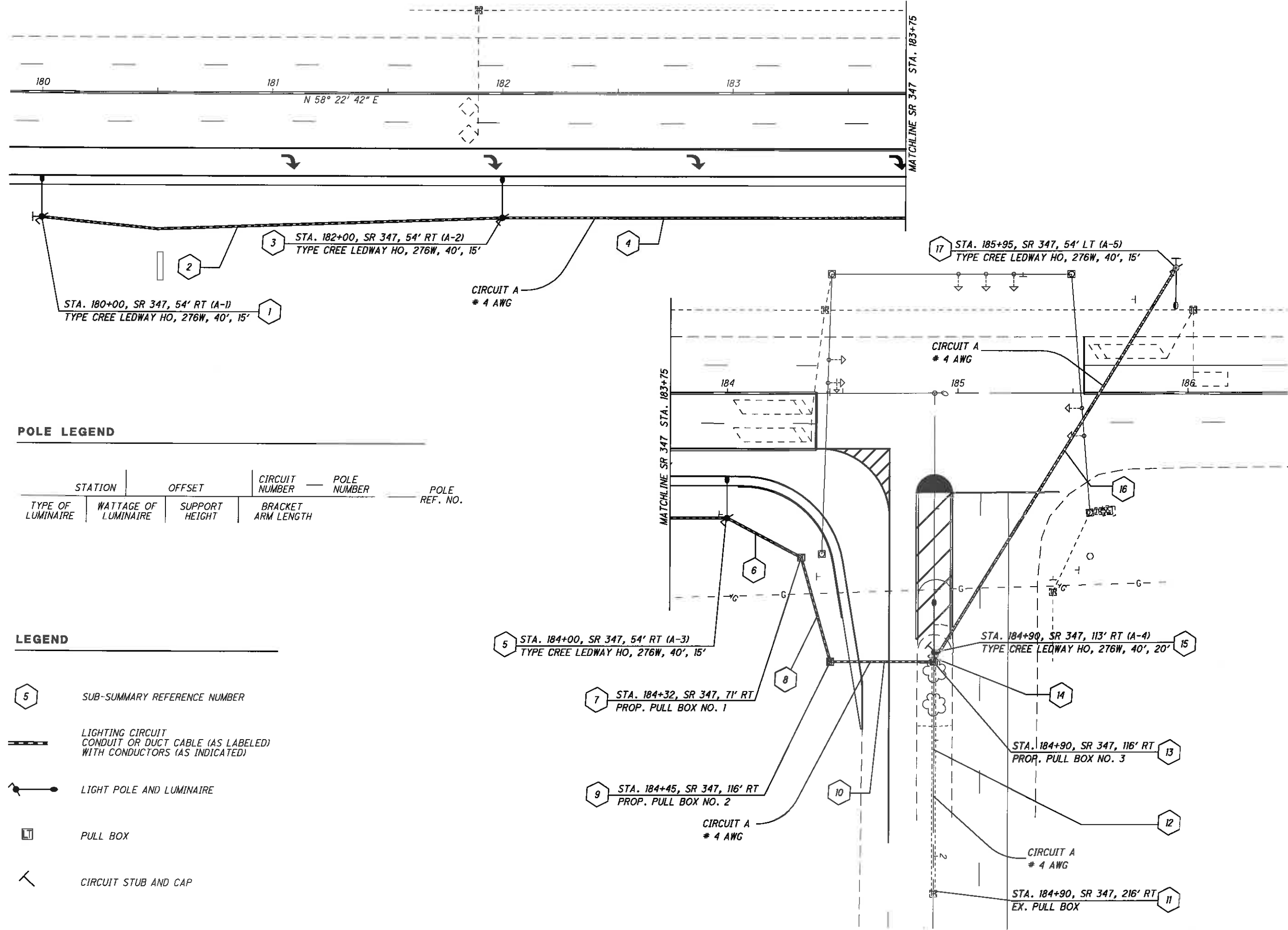
THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING PULL BOX AND APPROXIMATELY 2' OF THE CONDUIT ATTACHED, RUNNING SOUTH INTO THE HONDA ENTRANCE. THE PROPOSED HIGHWAY LIGHTING SYSTEM WILL INCLUDE REUSE OF THE REMAINING CONDUIT SO ANY DAMAGE TO THE SYSTEM BEYOND WHAT IS SPECIFIED WILL BE REPAIRED AS PART OF THE COST OF THIS ITEM. CARE MUST ALSO BE TAKEN TO MINIMIZE THE DAMAGE TO THE EXISTING LANDSCAPING AND DECORATIVE GRAVEL. ANY DAMAGE WILL REQUIRE RESTORATION TO BE PAID AS PART OF THIS ITEM.

**625- LIGHT POLE FOUNDATION REMOVED, AS PER PLAN**

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING LIGHT POLE FOUNDATION AS SPECIFIED IN CM&S SECTION 625.21. IN ADDITION, THE REMOVAL WILL INCLUDE THE ENTIRE CONCRETE CYLINDER TO A DEPTH OF UP TO 10". FOLLOWING THE INSTALLATION OF THE PROPOSED LIGHT POLE FOUNDATION, RESTORATION OF THE AREA WILL BE INCLUDED IN THE PRICE BID FOR ITEM 625, LIGHT POLE FOUNDATION REMOVED, AS PER PLAN.

**625- LIGHT POLE REMOVED FOR STORAGE AND LUMINAIRE REMOVED FOR STORAGE**

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING LIGHT POLE AND LUMINAIRE AND DELIVER THE ITEMS TO MIKE STRATTON OF HONDA.



**POLE LEGEND**

STATION	OFFSET	CIRCUIT NUMBER	POLE NUMBER	POLE REF. NO.
TYPE OF LUMINAIRE	WATTAGE OF LUMINAIRE	SUPPORT HEIGHT	BRACKET ARM LENGTH	

**LEGEND**

- SUB-SUMMARY REFERENCE NUMBER
- LIGHTING CIRCUIT CONDUIT OR DUCT CABLE (AS LABELED) WITH CONDUCTORS (AS INDICATED)
- LIGHT POLE AND LUMINAIRE
- PULL BOX
- CIRCUIT STUB AND CAP

I:\PROJECTS\Log\347\0228\Honda Entrance\sheets\98211L.P01.dgn 30-JUN-2014 10:10AM rhanke