



# OHIO DEPARTMENT OF TRANSPORTATION

John R. Kasich, Governor

Jerry Wray, Director

**District 8**  
505 S. State Route 741, Lebanon, OH 45036  
513-933-6568  
transportation.ohio.gov

August 24, 2017

**Re: Permit # 08-562-17**

**Email:** [gsmith@oberer.com](mailto:gsmith@oberer.com)

Dear Permit Holder:

Thank you for your application for the above referenced permit which is hereby approved.

Please be advised that before any work is started under this permit contact Dustin Williams at the District 8 Permit Office at 513-933-6576 and cell 513-615-4033 between the hours of 7:00 a.m. -3:30 p.m., Monday - Friday to inform us concerning the date and time work will begin. We suggest two working days as sufficient notice. However, if a lane closure or night time work is necessary a three working day notice is required.

When you call, please have your permit number, county and state route number available to facilitate service. Failure to inform us before commencement of work may force our Permit Inspectors to suspend the work.

We appreciate your cooperation and interest in these matters of mutual concern. Should you have any further questions or comments, please do not hesitate to contact the District 8 Permit Office.

Respectfully,

A handwritten signature in blue ink that reads "Thomas G. Makris".

Thomas G. Makris, P.E.  
District 8 Permits

MR 509  
Permit No. 08-562-17



STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
PERMIT

Office Use Only			
County or Jurisdiction	Butler		
Log Pt:	13.2	to Log Pt:	13.4
Rte:	4	AccCat:	

[1] Subject to all terms, conditions, and restrictions printed, written below or attached,

Name Oberer Land Developers, Ltd  
Address 3475 Newmark Dr.  
Miamiisburg, Ohio 45342

is hereby granted a permit under Section 5515.01 and 5515.02 of Ohio Revised Code, and permission to perform necessary work in the manner described and at the location indicated in the following or as attached to this permit. To install a right in right out driveway from SR 4. Install storm water detention and water quality basin with associated grading and storm sewers. New traffic signal modification with pedestrian cross walk at SR 4 to access Elk Run and Kyle Station. Improvement is located in Butler County, along SR 4 and Kyle Station. Details as shown on plan submitted with application and stamped by the Ohio Department of Transportation dated August 24, 2017.

All work covered under this permit shall be performed only during the State Working hours, unless prior Approval is granted by the District Office.

WORK REQUIRING A LANE CLOSURE MUST BE PERFORMED DURING THE HOURS OF 9:00 AM TO 3:00 PM. IT IS ALSO REQUIRED THAT THE PERMIT OFFICE BE NOTIFIED THREE WORKING DAYS PRIOR TO THE START OF THE WORK

**CONTINUED ON ATTACHED PAGES.**

[2] This permit shall be in the possession of employees on site at all times who are in charge of the work and shall be shown, upon request, to any employee of the Department of Transportation.

[3] No work authorized by this permit shall begin until the permittee has contacted and received instructions from

ODOT District 8, Permit Office

Phone: 513-333-6577

NOTE: Any work performed by the permittee may be stopped if the above requirements are not met

[1] To the extent applicable, this permit shall be void if the work described herein does not comply with the conditions, terms, and requirements applicable to the work.

[2] All work requiring persons or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Uniform Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for suspension of the permit.

Permit dated: 8/24/2017

Surety Company \_\_\_\_\_

Effective Date \_\_\_\_\_ Expiration Date \_\_\_\_\_ Amount \$ \_\_\_\_\_

**A call to OGPUPS at 1-800-925-0988 is required by the O.R.C.**

**2-WORKING DAYS**

**BEFORE YOU DIG**

**CALL TOLL FREE 800-362-2764**

**OHIO UTILITIES PROTECTION SERVICES**

The ODOT Intelligent Transportation System (ITS) Infrastructure and devices are not currently listed in the Ohio Utility Protection Services (OUPS) program. Please send a copy of the OUPS ticket or locate request to the ODOT ITS Section via email to CEN.ITS.LAB@dot.ohio.gov, in order to get the ITS utility infrastructure marked.

Director: \_\_\_\_\_

*Jay Wilcox*

Date: \_\_\_\_\_

*8/31/17*

Rev 09/06/2011

Name: Oberer Land Developers, Ltd

Dated: 8/24/2017

Permit Number: 08 - 562 - 17

## General Provisions Applicable to All Permits

(Sections 5515.01 and 5515.02 of O.R.C)

[1] This permit is not a substitute for satisfying the rights or obligations of any other party who may have an interest in the underlying fee interest

[2] The granting of this permit does not convey to the permittee or to the property served any rights, title or interest in state highway rights of way or in the design or operation of the state highway: or in any way abridge the right of the Director of the Department of Transportation in his jurisdiction over state highways. If, in the process of any future work or for the benefit of the traveling public, it becomes necessary, in the opinion of the Director of Transportation to order the removal, reconstruction, relocation, or repair of any of the fixtures, or work performed under this permit, said removal, reconstruction, relocation, or repair shall be wholly at the expense of the owners thereof or the permittee and be made as directed by the Director of Transportation. Such changes in the state highway design or operation, necessary for improved safety and operation or for the benefit of the traveling public, shall not require a permit modification since the permit confers no private rights to the permittee over the control of the state highway.

[3] The District Deputy Director acts for and on behalf of the Director in issuing and carrying out the provisions of all permits. The District Deputy Director has full authority to ensure that all provisions of the permit are met and to reject any materials, design and workmanship that do not meet applicable Department standards. The District Deputy Director, at his/her discretion, may require a performance bond or certified check as a prerequisite to the issuance of a permit.

[4] Failure on the part of the permittee to comply fully with the provisions and conditions of the permit will be cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Departmental action. By accepting the permit, the permittee agrees to comply with all conditions, terms, and restrictions printed or written on or attached to the permit. If the permittee performs any work contrary to the conditions of the permit or to the instructions of the District Deputy Director and, after due notice, fails to correct the problem, the Department of Transportation may, with or without notice, correct such work and the permittee shall reimburse the Department for the costs.

[5] The permittee shall indemnify and hold harmless the State of Ohio, Department of Transportation, its officers, representatives and assigns, from any and all loss, liability, damages, litigation costs, and claims for injury or death to any person, property, or business caused by or resulting from any act, omission, event, consequence, or occurrence, negligent or otherwise of the permittee, his employees, or assigns as a result of the issuance of this permit.

[6] All work authorized under the permit shall be performed to the Department's satisfaction, and the entire expense shall be borne by the permittee. No work shall be performed until the permittee has contacted the Department's appointed representative named on the permit and received instructions. The Department's representative may inspect all work covered by the permit, or the Department reserves the right, during the time any or all of the work is being performed, to appoint an inspector over the work who shall represent the interest of the State on the work and any compensation arranged for shall be paid wholly by the permit holder. Work not in compliance shall be halted and the District Deputy Director shall be notified of the cause. The permittee shall be notified of the Department's action and its causes, and given an opportunity to correct the problem.

[7] Failure to complete all work within the time specified on the permit shall void the permit, thereby making the permit illegal and subject to appropriate Departmental action. The permittee may request an extension in writing from the District Office, explaining why the extension is necessary and when the work is expected to be completed.

[8] All work infringing on the pavement or shoulders shall comply with applicable standards and requirements regarding traffic control devices. Any unsafe or unsafe changes or shoulders shall be described in terms of location, duration, time of day, etc. Such work shall not begin until all traffic control devices are in place.

[9] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage.

[10] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate Form No. MR678 certifying that the permittee has complied with the terms of the permit.

[11] Except as herein authorized, no excavation shall be made or obstacle placed within the limits of the highway so as to interfere with the travel over the road.

[12] All pole lines are to be built in accordance with Rule 4901:3-1-08 of the Ohio Administrative Code and promulgated and enforced by the Public Utilities Commission of Ohio.



Name: Oberer Land Developers, Ltd

Dated: 8/24/2017

Permit Number: 08 - 562 - 17

~~13] The permittee shall comply with the Air Pollution requirements of Rule 3745-17-08 of the Ohio Administrative Code promulgated and enforced by the Ohio Environmental Protection Agency.~~

4] The permittee certifies that he or she is fully authorized to sign this permit. This permit shall apply to and be binding upon the permittee and his/her successors in interest. No change in ownership of the underlying property or of the facility owned by the permittee shall in any way alter the permittee's obligations under this permit.

5] The permittee(s) for herself/himself/themselves/itself, her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does covenant and agree that:

(1) No person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of the above described property.

(2) In the construction of any improvements on, over, or under the above described property and the furnishing of services thereon, no person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination.

(3) The above described property shall be used in a manner that at all times is in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. DOT, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the U.S. DOT - Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.

(4) In the event that this instrument grants a lease, license, or permit and any of the above nondiscrimination covenants is breached, the State of Ohio, Department of Transportation, shall have the unfettered right to terminate the lease, license or permit and to re-enter and repossess the above-described property and hold the same as if said lease, license, or permit had never been made or issued.

(5) In the event that this instrument grants a fee or easement interest and any of the above nondiscrimination covenants is breached, the State of Ohio Department of Transportation shall have the unfettered right to re-enter the above described property, and said property will thereupon revert to and vest in and become the absolute property of the State of Ohio and its successors and assigns for the use and benefit of the Department of Transportation.

(6) In the event that this instrument grants a lease, fee, or easement interest, all of the foregoing nondiscrimination covenants shall be and are covenants running with the land.

Name: Oberer Land Developers, Ltd

Dated: 8/24/2017

Permit Number: 08 - 562 - 17

All work shall be performed at no cost to the State of Ohio or the Federal Highway Administration.

Loading or unloading of equipment and material from the roadway pavement will not be permitted.

Storage of pipe and material on the pavement, berms, median and/or State right-of-way will not be permitted without prior approval from the District Permit Office.

Equipment and personnel operating from the pavement shall be kept to a minimum; and, with adequate flagmen (Flagmen's Guide) and to a minimum; traffic warning devices maintained at all times.

Restoration of all areas disturbed shall be completed immediately after installation is completed.

All areas disturbed by this operation shall be restored comparable to that of the surrounding area and to the satisfaction of the State Inspector.

All walks, steps, driveways, drains, mail boxes, traffic signs, guardrail, poles, fences, etc. that are disturbed must be restored to their original condition or better.

The pavement, berms and median must be kept clean of dirt, mud and debris at all times.

All traffic shall be maintained in accordance with the Ohio Manual of Uniform Traffic Control Devices for Construction and Maintenance Operations.

Local traffic, facilities for pedestrian and vehicular ingress and egress, shall be provided at all times for the property adjacent to the work.

Two-way traffic shall be maintained at all times and all equipment used on pavement shall be rubber tired.

No vehicles, equipment, or personnel, including personal automobiles, will be permitted to park on or operate from the roadway pavement, berms, or median.

Name: Oberer Land Developers, Ltd

Dated: 8/24/2017

Permit Number: 08 - 562 - 17

It must be stressed, that the pavement is to be kept clean at all times from mud and material carried onto the pavement. Failure to comply with this request will result in suspending all operations on State Right-of-Way while working under this Permit.

In the event of conflicts with traffic signal or highway lighting equipment during the installation(s), the Contractor and/or Permittee shall notify the O.D.O.T. District 8 Traffic Department at 513-933-6689. Seven working days' notice will be required to inspect and correct the equipment problem. If the problem is too complex, an electrical contractor must be hired to perform the work. All repairs in such cases are to be made to the satisfaction of the District Traffic Maintenance Engineer, or the appointed representative, and at the expense of the Company or Permittee.

Disturbance of any existing traffic signal or highway lighting equipment during the installation or re-arrangements of facilities shall be the responsibility of the Company or the Permittee.

All excavated material not removed from the area shall be placed between the trench and right-of-way line until needed for backfill or excess to be disposed.

All backfill shall be performed in accordance with the provisions set forth under Construction Specifications Item 603, and piling of earth over trench for future settlement will not be permitted.

Backfilling shall follow completion of all work as closely as possible each day. The backfill shall be to level and slope of the adjacent surface and maintained in this manner until the final restoration.

The sides of all excavations shall be protected from caving by providing suitable sheeting and bracing. All sheeting and bracing shall be carefully removed as the backfilling of the trench progresses. Backfilling shall follow completion of the work as closely as possible. After the backfilling has been completed, the Contractor shall immediately remove all surplus material, dirt and rubbish from the site.

All fire hydrants and service cocks shall be located not more than 3' within the right-of-way. No part of any fire hydrant setting shall be installed closer than 5' to any driveway, inlet, utility pole or guy wire anchor.

The proposed facilities (mains, cable, conduit, etc.) must be installed under or around all structures and pipes having 6' or less of ground cover, unless otherwise noted on the accepted/and or stamped plans.

Name: Oberer Land Developers, Ltd

Dated: 8/24/2017

Permit Number: 08 - 562 - 17

All ditch areas and slopes disturbed must be reshaped to drain properly; and, seeded or sodded as directed by the State Inspector.

Proper roadside drainage shall be maintained at all times.

In the event of ice, snow or rain, all work shall be suspended as directed by the State Inspector and shall remain suspended until notified by the State Inspector.

All bore pits or open manholes must be barricaded and fenced for safety, or as directed by the State Inspector.

Any installation installed within the signing zone must be a minimum depth of 48" as determined by the State Inspector.

Stop signs shall not be disturbed. If it becomes necessary to remove a stop sign, a portable stop sign shall be erected before the permanent sign is removed. The pavement sign shall be re-erected immediately after the installation is complete.

All Ohio Department of Transportation's guide signs shall be re-erected the same day as removed or as directed by the State Inspector in accordance with the Manual of Uniform Traffic Control Devices.

Rough grading of all ditch areas and slopes disturbed shall be reshaped to drain properly immediately following pipe installation. In the event that pipe installation exceeds 500' beyond the grading, pipe installation shall be suspended until proper grading is performed.

If installation is within 10' of an existing strain pole, permanent or temporary anchoring may be required. The Permittee shall notify the District 8 Traffic Department at 513-933-6689, two working days prior to the installation within the area of strain pole.

The opening(s) in the pavement must be saw cut full depth and all excavated material removed from the area and not piled upon the pavement. The opening(s) must be backfilled with State of Ohio Department of Transportation (ODOT) Specification Item 613, low strength mortar backfill, and closed with a patch consisting of:

- 8" Item 305 cement concrete base and 3" of Item 448 Type 1H asphalt concrete surface course.
- 10" Item 301 asphalt concrete base placed in 2-5" lifts, 2" of Item 448 Type 1H asphalt concrete surface course rolled level with the surrounding pavement and the edges sealed as determined by the ODOT Inspector.
- Match existing pavement typical section, as directed by the ODOT Inspector

Any settlement of the patches and/or street surface will be considered conclusive evidence of defective backfilling and/or pavement restoration and must be corrected at once.

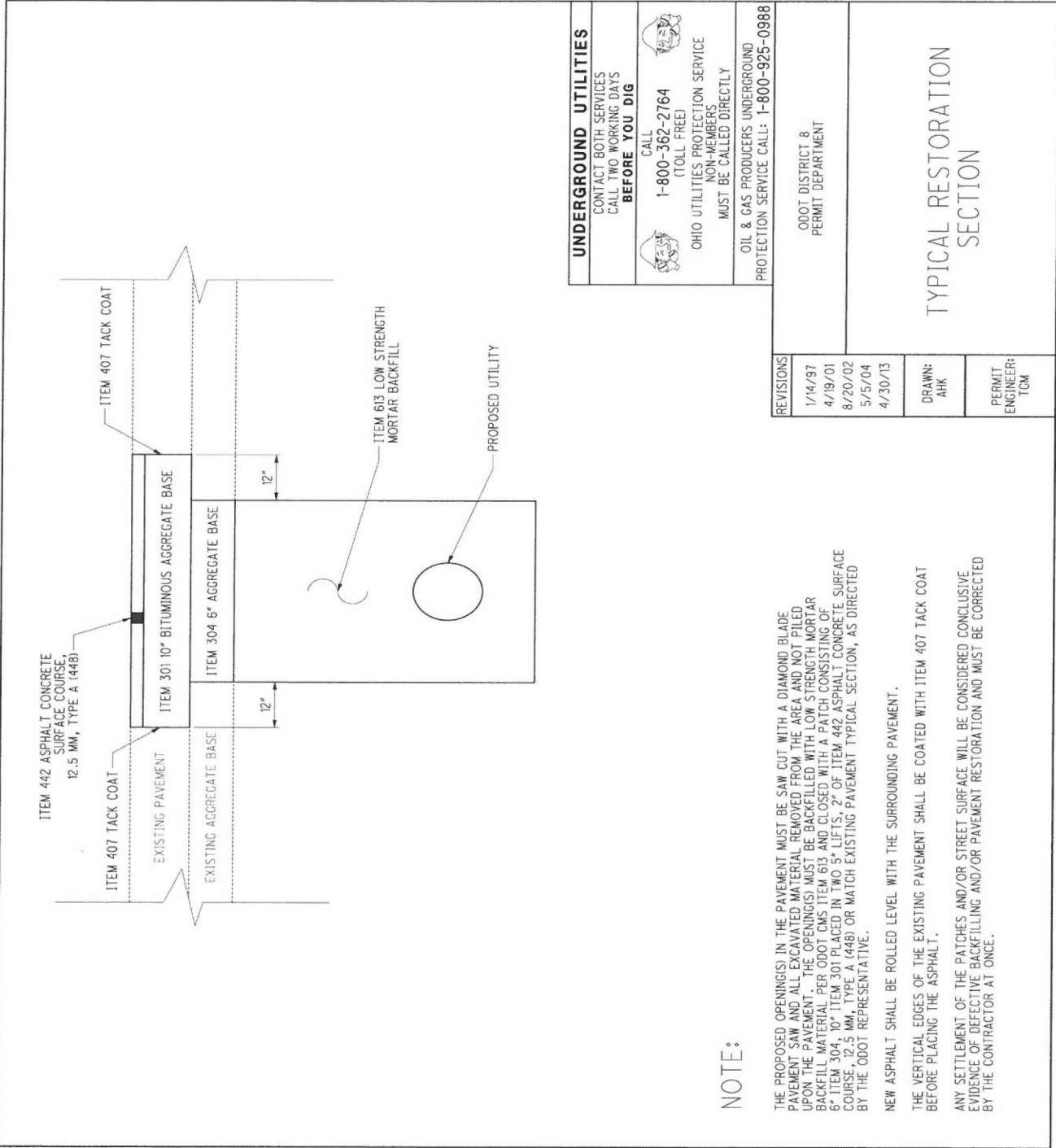
ARTIMIS facilities must be marked by ARTIMIS by calling 513-564-6400 or 513-564-6102. ARTIMIS must be contacted 5 working days in advance of the start of work to allow them to mark their facilities



Name: Oberer Land Developers, Ltd

Dated: 8/24/2017

Permit Number: 08 - 562 - 17



**NOTE:**

THE PROPOSED OPENING(S) IN THE PAVEMENT MUST BE SAW CUT WITH A DIAMOND BLADE PAVEMENT SAW AND ALL EXCAVATED MATERIAL REMOVED FROM THE AREA AND NOT PILED UPON THE PAVEMENT. THE OPENING(S) MUST BE BACKFILLED WITH LOW STRENGTH MORTAR BACKFILL MATERIAL PER ODOT CMS ITEM 613 AND CLOSED WITH A PATCH CONSISTING OF 6" ITEM 304, 10" ITEM 301 PLACED IN TWO 5" LIFTS, 2" OF ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) OR MATCH EXISTING PAVEMENT TYPICAL SECTION, AS DIRECTED BY THE ODOT REPRESENTATIVE.

NEW ASPHALT SHALL BE ROLLED LEVEL WITH THE SURROUNDING PAVEMENT.

THE VERTICAL EDGES OF THE EXISTING PAVEMENT SHALL BE COATED WITH ITEM 407 TACK COAT BEFORE PLACING THE ASPHALT.

ANY SETTLEMENT OF THE PATCHES AND/OR STREET SURFACE WILL BE CONSIDERED CONCLUSIVE EVIDENCE OF DEFECTIVE BACKFILLING AND/OR PAVEMENT RESTORATION AND MUST BE CORRECTED BY THE CONTRACTOR AT ONCE.

**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

**REVISIONS**

1/14/97
4/19/01
8/20/02
5/5/04
4/30/13

DRAWN:  
AHK

PERMIT  
ENGINEER:  
TCM

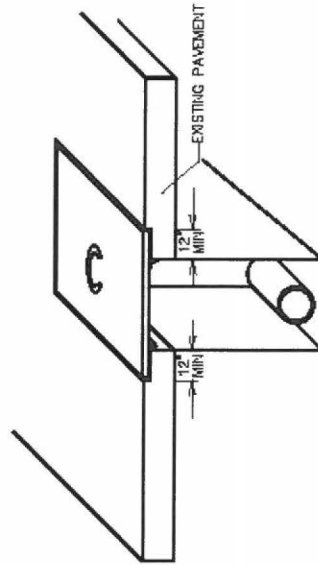
**TYPICAL RESTORATION  
SECTION**

Name: Oberer Land Developers, Ltd

Dated: 8/24/2017

Permit Number: 08 - 562 - 17

THE OPENINGS MUST BE PLATED; AND, THE PLATE(S) SHALL BE RECESSED TO FIT NEATLY IN THE PAVEMENT, AS SHOWN ON THE SKETCH BELOW, SUITABLE FOR PASSAGE OF TRAFFIC AND SNOW REMOVAL EQUIPMENT. NO MORE THAN 200' LINEAL FEET OF PLATES SHALL BE PERMITTED IN PLACE AT ANY ONE TIME. PLATES IN USE ON THE ROADWAY SHALL BE A MINIMUM OF 1" IN THICKNESS AND BE IN A SMOOTH CONDITION FREE OF ANY BOWS OR ROUGH EDGES.



UNDERGROUND UTILITIES  
2 WORKING DAYS  
BEFORE YOU DIG  
CALL 800-368-2764  
AND UTILITIES PROTECTION SERVICE  
HIGH-WAY/ROADS  
MAY BE LOCATED EARLIER

1/14/97  
4/18/01  
09/24/02  
04/24/03  
05/06/04

ODOT DISTRICT 08  
PERMIT DEPARTMENT

TYPICAL PLATE  
DETAIL

MR-678  
08-562-17

Bonded  
FINAL INSPECTION  
PERMIT EXPIRES 8 /24/2018

County: Butler  
Route: 4  
Section: 13.2/13.4

**STATE OF OHIO DEPARTMENT OF TRANSPORTATION**

**District 8 PERMIT INSPECTION CERTIFICATION**

Permittee: Oberer Land Developers, Ltd 3475 Newmark Dr. Miamisburg, Ohio 45342

Permit Number: **08-562-17**

Contact Name: Greg Smith

Permit Type: Special Use

Contact Phone: (937) 531-5530

Issued: 8/24/2017

Description: To install a right in right out driveway from SR 4. Install storm water detention and water quality basin with associated grading and storm sewers. New traffic signal modification with pedestrian cross walk at SR 4 to access Elk Run and Kyle Station. Improvement is located in Butler County, along SR 4 and Kyle Station. Details as shown on plan submitted with application and stamped by the Ohio Department of Transportation dated August 24, 2017.

**(To be filled in by Inspector)**

Work Completed (Yes or No)

As Authorized (Yes or No)

Variations: \_\_\_\_\_

Approved: \_\_\_\_\_

Not Approved: \_\_\_\_\_

\*Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Contacted by: \_\_\_\_\_ Title: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

\*If work not approved, so advise person in charge at work site, noting his name and relationship to permittee, as well as date and time of inspection; note instructions given such person in charge, including stoppage of work if warranted. If no one at work site, so note.

1. MR 505

App No 1551

Return To: OHIO DEPARTMENT OF TRANSPORTATION

505 S. STATE ROUTE 741

LEBANON, OHIO 45036

ATTN: PERMITS DEPARTMENT

State of Ohio  
Department of Transportation  
Permit Application

See Reverse side for additional requirements

Office Use Only	
County/ Jurisdiction	BUT
Rte	4
LogPt	13.2-13.3
AccCat	

Received 7-31-17  
Rev. 8/23/17

[1] This form must be completed by the property owner or agents working for a utility company (if applicable). Application by contractor is unacceptable.

Name Oberer Land Developers, Ltd (att: Greg Smith)

Address 3475 Newmark Dr

City Miamisburg

State Ohio

Zip 45342 Phone (937) 531-5530

(Email Required) gsmith@oberer.com

[2] Type of Permit requested:  Commercial (See other side)  Residential  Field  Utility  Drainage  
 Beautification (See other side)  Spraying, trimming, tree removal  Other

[3] Briefly describe work to be performed. (Attach plans and see Instructions.)

1. Installation of a right in right out driveway and associated grading and storm sewers. 2. Installation of a storm water detention/water quality basin and associated grading and storm sewers. 3. New signal modification and pedestrian cross walk at SR 4 and Kyles Station Road

[4] Location where work is to be performed. Give sufficient detail to locate the site accurately, such as the distance in miles or feet from a mile post or from some geographical feature such as an intersecting highway.

In Butler County (along, across) State Route 4, miles or 800 feet

North East X West South of Kyles Station on the North East West South X side of the road.

Work to commence on October 15 and will require 60 days to complete

[5] Does the property owner own or have any interests in any adjacent property?  Yes  No  
If yes, please describe.

[6] Prior to any excavation in the highway right-of-way, the Ohio Utilities Protection Service (OUPS) must be contacted in accordance with ORC Section 3781.25 to 3781.32. OUPS can be reached at 1-800-362-2764. A call must be made to OGPUPS at 1-800-925-0988.

[7] Open cutting of pavement shall not be permitted unless no reasonable alternate method is available. Written approval of the Ohio Department of Transportation District Office must be obtained.

[8] All work requiring men or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.

[9] I have received a copy of the policies and regulations pertaining to the permit for which I have applied. If a permit is subsequently issued to me by the Ohio Department of Transportation, I understand that the permit will state the terms and conditions for its use, and I agree to comply with all conditions and regulations stipulated on or attached to the permit. I also understand and agree that failure to comply fully with all conditions and regulations of the permit or any change in the use of the permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Department action, up to an including removal of the installation at the permittee's expense.

SIGN and  
PRINT here

Signature of Property Owner or Agent for Owner

Date: 8/13/15 Daytime Phone: 937-531-5530

Office use only

Date Received \_\_\_\_\_

By \_\_\_\_\_

Date Accepted \_\_\_\_\_

By \_\_\_\_\_



STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

STATE ROUTE 4

IMPROVEMENTS

LIBERTY TOWNSHIP, BUTLER COUNTY, OHIO

PROJECT DESCRIPTION

IMPROVEMENTS ALONG STATE ROUTE 4 INCLUDING ADDITION OF AN EXCLUSIVE NORTHBOUND RIGHT TURN LANE INTO PROPOSED ACCESS DRIVE. IMPROVEMENT TO EXISTING INTERSECTION OF STATE ROUTE 4 AND KYLES STATION ROAD SIGNALS.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

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.

DISTRICT 08  
PERMIT DEPARTMENT

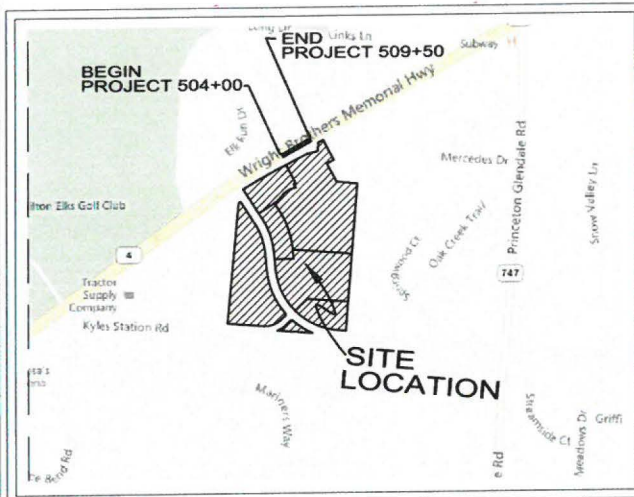
AUG 28 2017

OHIO DEPARTMENT  
OF TRANSPORTATION

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (H) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OF LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DISTRICT DEPUTY DIRECTOR

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION



SCALE 1"=1000'



LOCATION MAP

LATITUDE: 39° 25' 26" LONGITUDE: 84° 27' 32"

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

DESIGN DESIGNATION

CURRENT ADT (2015)	SR 4 19,750 - KYLES STATION 3970
DESIGN YEAR ADT (2035)	SR 4 24,730 - KYLES STATION 5040
DESIGN HOURLY VOLUME (2035)	SR 4 2,300 - KYLES STATION 400
DIRECTIONAL DISTRIBUTION	SR 4 0.53 - KYLES STATION 0.80
TRUCKS (24 HOUR B&C)	SR 4 4.0% - KYLES STATION 4.0%
DESIGN SPEED	SR 4 55 MPH - KYLES STATION 55 MPH
LEGAL SPEED	SR 4, 55 MPH - KYLES STATION 55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
SR 4, MAJOR COLLECTOR - KYLES STATION, COLLECTOR	
NHS PROJECT	N/A

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

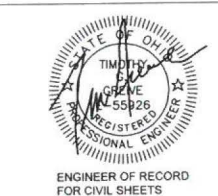


PLAN PREPARED BY:  
803 Compton Road  
Suite A  
Cincinnati, OH 45231  
Tel: 513.521.4760  
Fax: 513.521.2439

INDEX OF SHEETS:

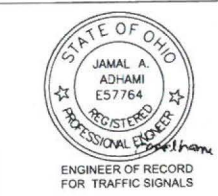
TITLE SHEET & NOTES	1
SCHEMATIC PLAN	2
TYPICAL SECTION	3
GENERAL NOTES	4
MAINTENANCE OF TRAFFIC NOTES	5
PLAN AND PROFILE	6
CROSS SECTIONS	7-12
PAVEMENT MARKING, SIGNAGE, AND GRADING	13
50 SCALE ROUGH GRADING PLAN	14
50 SCALE ROUGH GRADING PLAN	15
20 SCALE GRADING PLAN FOR WORK IN R/W	16
DETAIL SHEET FOR WORK IN R/W	17
TRAFFIC CONTROL & LAYOUT PLAN	18
S.R. 4 & KYLES STATION ROAD INTERSECTION (NOT PART OF KROGER CONTRACT)	

ENGINEERS SEAL:



DATE: 08/25/2017

ENGINEERS SEAL:



DATE: 8/25/2017

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	7/18/14	HL-30.22	1/17/14	TC-71.10	1/17/14	SS800	10/16/15
BP-4.1	7/19/13			TC-81.10	10/18/13		
BP-5.1	7/19/13	MT-95.50	10/16/15	TC-82.10	7/17/15	SS832	1/17/14
BP-7.1	7/18/14	MT-95.61	7/19/13	TC-83.10	1/17/14		
		MT-97.10	7/18/14	TC-83.20	7/17/15	SS878	10/13/13
CB-1.1	1/18/13	MT-120.00	7/19/13	TC-84.20	10/18/13		
				TC-85.10	10/18/13		
HW-1.1	1/18/13	TC-17.10	1/17/14	TC-85.22	1/16/15		
HW-2.2	7/17/15	TC-21.20	1/16/15				
		TC-22.20	1/17/14				
MH-1.2	1/18/13	TC-41.20	10/18/13				
		TC-41.30	10/18/13				
DM-1.1	1/18/13	TC-41.40	10/18/13				
DM-2.1	1/18/13	TC-41.50	10/18/13				
HL-30.11	1/16/15	TC-65.10	1/17/14				
HL-30.21	1/17/14	TC-65.11	7/18/14				

FEDERAL PROJECT NO. NONE  
 PID NO. NONE  
 CONSTRUCTION PROJECT NO. NONE  
 RAILROAD INVOLVEMENT NONE  
 STATE ROUTE 4 LIBERTY TOWNSHIP  
 100% BID/PERMIT ISSUE 1/27/17  
 1  
18



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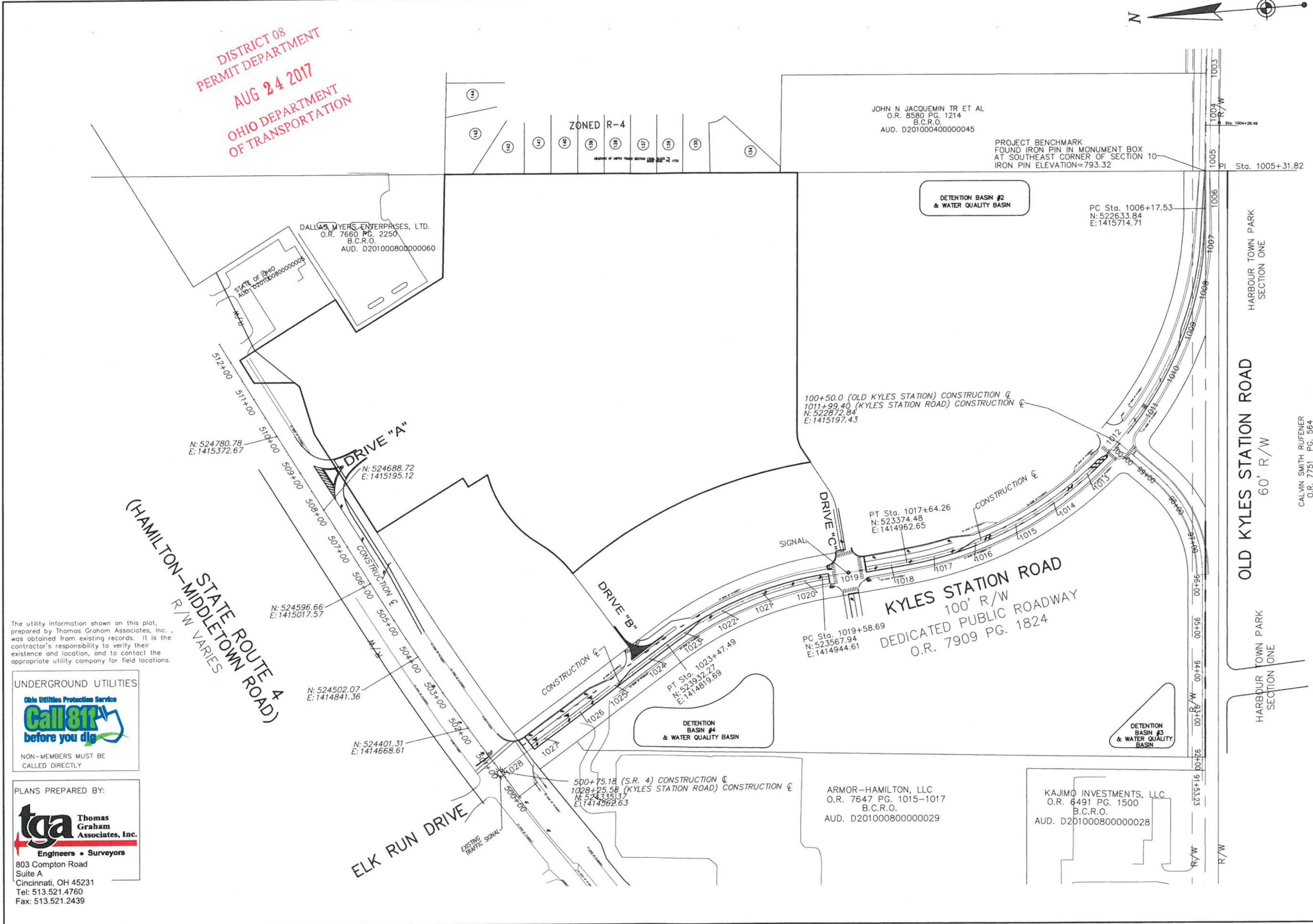


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**SCHEMATIC PLAN**

KYLES STATION &  
 STATE ROUTE 4  
 LIBERTY TOWNSHIP



The utility information shown on this plot, prepared by Thomas Graham Associates, Inc., was obtained from existing records. It is the contractor's responsibility to verify their existence and location, and to contact the appropriate utility company for field locations.

**UNDERGROUND UTILITIES**

Ohio Utilities Protection Service  
**Call 811**  
 before you dig

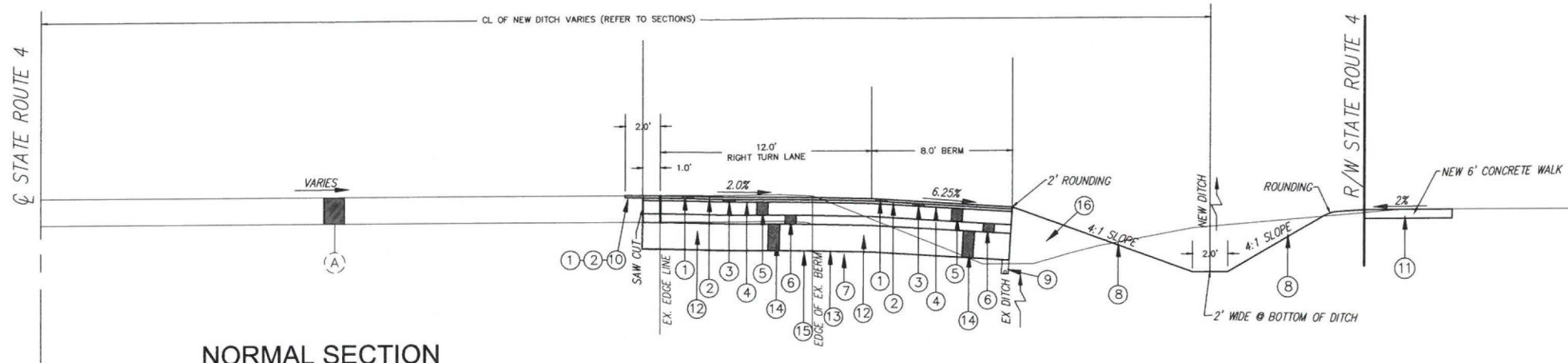
NON-MEMBERS MUST BE CALLED DIRECTLY

PLANS PREPARED BY:

**tga** Thomas Graham Associates, Inc.  
 Engineers • Surveyors

803 Compton Road  
 Suite A  
 Cincinnati, OH 45231  
 Tel: 513.521.4760  
 Fax: 513.521.2439

CALVIN SMITH RUFENER  
 O.R. 7751 PG. 564



**NORMAL SECTION**

STA. 504+00 - 507+50

**LEGEND**

- 1 - ITEM 442 - 1.5" ASPHALT CONCRETE, SURFACE COURSE, 12.5mm, TYPE A (448)
  - 2 - ITEM 407, TACK COAT @ 0.04 GAL/SY FOR INTERMEDIATE COURSE
  - 3 - ITEM 442, 1.75" INTERMEDIATE COURSE, 19mm, TYPE A (448)
  - 4 - ITEM 407, TACK COAT @ 0.4 GAL/SY FOR BASE COURSE
  - 5 - ITEM 301, 9" ASPHALT CONCRETE BASE, PG 64-22
  - 6 - ITEM 304, 6" AGGREGATE BASE
  - 7 - ITEM 204, SUBGRADE COMPACTION
  - 8 - ITEM 659, SEEDING AND MULCHING
  - 9 - ITEM 605, 4" SHALLOW PIPE UNDERDRAIN (10" DEEP)
  - 10 - ITEM 254, PAVEMENT PLANING, 1.5"
  - 11 - ITEM 608, 4" CONCRETE WALK
  - A - EXISTING PAVEMENT
  - 12 - ITEM 204, EXCAVATION OF SUBGRADE - 18" DEEP
  - 13 - ITEM 204, GEOTEXTILE FABRIC
  - 14 - ITEM 204, GRANULAR MATERIAL, TYPE C, 18"
  - 15 - ITEM 206, LIME STABILIZED SUBGRADE
  - 16 - ITEM 203, EMBANKMENT - COMPACT MATERIAL IN 6" LIFTS TO RIGHT OF PAVEMENT
- ITEM 613-LOW STRENGTH MORTAR, TO BE USED FOR SUBGRADE EXCAVATION VOIDS

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TYPICAL SECTION  
 STATE ROUTE 4

STATE ROUTE 4  
 LIBERTY TOWNSHIP

3  
 18

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PLANS PREPARED BY:



803 Compton Road  
 Suite A  
 Cincinnati, OH 45231  
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 Fax: 513.521.2439



UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

MR. MARK CONNER  
CINCINNATI BELL TELEPHONE COMPANY  
221 EAST FOURTH STREET  
MAIL LOCATION 343  
CINCINNATI OH 45202  
565-7043  
(2 SETS OF PLANS)

TAMWA PUGH  
DUKE ENERGY  
ENERGY DELIVERY ENGINEERING  
ROOM 467-A, P.O. BOX 960  
CINCINNATI OH 45201  
287-2240

MR. ED ACKERSON  
DUKE ENERGY  
GAS DIVISION  
139 EAST FOURTH STREET  
P.O. BOX 960, ROOM 460-A  
CINCINNATI OH 45201  
287-2934

ODOT  
DISTRICT PERMIT ENGINEER  
ODOT DISTRICT 08  
505 SOUTH SR 741  
LEBANON, OHIO 45036  
TOM MAKRIS, P.E. - 513-933-6575

TRAFFIC  
ODOT DISTRICT 08  
505 SOUTH SR 741  
LEBANON, OHIO 45036  
933-6607  
MARC GRAKE, P.E.

MR. KENT RIEGER  
TIME WARNER COMMUNICATIONS  
11252 CORNELL PARK DRIVE  
CINCINNATI OH 45242  
386-5499  
(1 SET OF PLANS IN DIGITAL FORMAT)

MR. ROB HAUENSTEIN  
TIME WARNER COMMUNICATIONS  
3290 WESTBOURNE ROAD  
CINCINNATI OH 45248  
451-6730

BUTLER COUNTY ENGINEER'S OFFICE PERMITS  
MR. TIM SMITH  
1921 FAIRGROVE AVENUE (SR 4)  
HAMILTON, OHIO 45011

DISTRICT 08  
PERMIT DEPARTMENT

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UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

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.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS) A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA. CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS

FURNISH A CONTINUANCE FOR ALL UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS SUCH AS SANITARY, WASTEWATER, CURTAIN/GRADIENT DRAINS, AND FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. FURNISH AN UNOBSTRUCTED CONTINUANCE OF THE UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS TO THE SATISFACTION OF THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT. ALL SANITARY AND SANITARY WASTEWATER CONTINUANCE MAY ALSO REQUIRE A NPDES PERMIT FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY. REPORT ALL CONTINUANCE TO THE LOCAL HEALTH DEPARTMENT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.42, 707.43, 707.44, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35, 706.01, 706.02, OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12.

GAS FACILITY NOTES

I. FOR GAS ENGINEERING NOTIFICATION, AGREEMENTS AND OFFICIAL CORRESPONDENCE, ADDRESS TO: DUKE ENERGY GAS ENGINEERING DEPARTMENT P.O. BOX 960, ROOM 460 ANNEX CINCINNATI, OH 45202-4003

II. THE GAS MAIN INFORMATION PROVIDED SHOWS THE APPROXIMATE LOCATIONS AND DEPTHS OF COVER AND IS PROVIDED TO COMPLY WITH STATUTORY REGULATIONS. THIS INFORMATION SHOULD BE USED ONLY FOR PLANNING, NOT CONSTRUCTION.

III. ALL GAS MAIN DEPTHS OF COVER NOTED ARE APPROXIMATE DEPTHS OF COVER RECORDED AT THE TIME OF INSTALLATION. ANY RESULTING GRADE CHANGES SINCE THE TIME OF THE MAIN INSTALLATION WILL CAUSE THE EXISTING DEPTHS OF COVER TO BE DIFFERENT. EXTREME CARE MUST BE TAKEN TO ENSURE SAFE EXCAVATION WHEN APPROACHING KNOWN OR SUSPECTED GAS FACILITIES.

IV. ALL GAS SERVICES WERE INSTALLED AT A MINIMUM OF 1 -6" OF COVER. SEE III ABOVE.

V. FOR ADDITIONAL GAS FACILITY RECORD INFORMATION, CALL (513) 287-3636.

CONCERNING DAMAGE PREVENTION PROGRAMS, THE UTILITY COMPANIES

VI. TO COMPLY WITH FEDERAL AND STATE REGULATIONS

MUST BE CONTACTED AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO EXCAVATION BY CALLING THE OHIO UTILITIES PROTECTION SERVICE (OUPS), TOLL FREE AT 1-800-362-2764 OR 811 FOR OHIO. FOR KENTUCKY CALL KENTUCKY UNDERGROUND PROTECTION INC., (KUPI), TOLL FREE AT 1-800-752-6007.

CONSTRUCTION NOTES

I. GAS FACILITIES ARE TO BE KEPT IN SERVICE AT ALL TIMES.

II. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO GAS FACILITIES DURING OR AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION. ALL DAMAGE TO GAS FACILITIES REQUIRING ADJUSTMENTS, RELOCATIONS AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.

III. THE CONTRACTOR SHALL SHEET AND SHORE ALL EXCAVATIONS AS REQUIRED TO CONTINUOUSLY SUPPORT GAS FACILITIES WITHIN THE ZONE OF INFLUENCE (AS DETERMINED BY THE NATURAL ANGLE OF REPOSE OF THE SOIL).

IV. CROSSING BURIED GAS FACILITIES WITH HEAVY CONSTRUCTION EQUIPMENT MAY CAUSE DAMAGE TO THE GAS FACILITIES. CONTACT THE GAS ENGINEERING DEPARTMENT FOR DETAILS ON HOW TO PROTECT THE GAS FACILITIES FROM DAMAGE.

V. THE CONTRACTOR SHALL NOT BACKFILL EXPOSED GAS FACILITIES UNTIL THE UTILITY HAS INSPECTED ITS FACILITIES AND PERFORMED ANY MAINTENANCE AND/OR ADJUSTMENTS THAT MAY BE REQUIRED.

VI. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING ANY DAMAGE TO OUR GAS FACILITIES. THIS INCLUDES PROTECTION OF COATINGS AND WRAPPINGS ON STEEL GAS MAINS. IT ALSO INCLUDES ANY DAMAGE WHICH MAY HAVE OCCURRED TO PLASTIC GAS MAINS, SUCH AS CRIMPS OR GOUGES.

VII. WHEN CAST IRON OR SIMILAR GAS FACILITIES ARE EXPOSED OR INTERFERED WITH BY THE CONTRACTOR, REPLACEMENT OR REINFORCEMENT BY DUKE ENERGY MAY BE REQUIRED AT THE CONTRACTOR'S EXPENSE. BACKFILL WITH CONTROL LOW STRENGTH MATERIAL WILL BE REQUIRED.

VIII. BLASTING OR OTHER CONSTRUCTION PROCEDURES WHICH MAY TRANSMIT LOADS OR VIBRATIONS IN THE VICINITY OF GAS FACILITIES MUST BE APPROVED BY DUKE ENERGY'S GAS ENGINEERING DEPARTMENT. A BLASTING PLAN, IDENTIFYING ALL PERTINENT INFORMATION, MUST BE SUBMITTED IN WRITING BY A BLASTING

PROPOSED DEVELOPMENTS AT GAS R/W & EASEMENTS (IF APPLICABLE)

I. PROPOSED DEVELOPMENT PLANS AROUND AND NEAR GAS FACILITIES WITHIN PRIVATE EASEMENTS MUST BE SUBMITTED TO DUKE ENERGY'S GAS ENGINEERING DEPARTMENT FOR REVIEW. THESE PLANS MUST BE APPROVED BEFORE ANY WORK MAY BEGIN WITHIN OUR

ROUNDING

THE 2' ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

BUTLER COUNTY WATER AND SEWER

RELOCATED OR ADJUSTMENT OF WATER MAIN, SERVICES, AND APPURTENANCES AND/OR ADJUSTMENT OF SANITARY MANHOLES OR CLEANOUTS SHALL BE PER THE LATEST REVISION OF BUTLER COUNTY WATER AND SEWER RULES AND REGULATIONS.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 9 PM AND 6 AM IN ADDITION, DO NOT OPERATE AT ANY TIME DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

IF DRAINAGE FIELD TILE IS ENCOUNTERED DURING CONSTRUCTION CONTRACTOR TO TIE TO PROPOSED STORM SYSTEM (CATCH BASIN OR STORM MANHOLE)

SEEDING AND MULCHING

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.

EXCAVATION NEAR EXISTING WATER LINES

THE CONTRACTOR IS CAUTIONED THAT SUBGRADE EXCAVATION ACTIVITIES MAY EXPOSE EXISTING WATERLINES THAT ARE TO REMAIN IN SERVICE. EXTREME CARE SHALL BE EXERCISED TO PREVENT DAMAGING THE EXISTING WATERLINES. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

REMOVAL AND RELOCATION OF PRIVATE SIGNS AND FENCE ALL EXISTING FENCE, PRIVATE SIGN ETC. WITHIN THE LIMITS OF THE PROJECT ARE TO BE REMOVED AND RELOCATED. COORDINATE WITH THE OWNER.

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GENERAL NOTES  
STATE ROUTE 4

LIBERTY TOWNSHIP



ITEM 614, MAINTAINING TRAFFIC

THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGH THE PROJECT AT ALL TIMES. TWO-WAY TRAFFIC ON STATE ROUTE 4 AND KYLES STATION ROAD SHALL BE MAINTAINED AT ALL TIMES. NO LANE CLOSURE OR SIGNAL OUTAGES WILL BE PERMITTED BETWEEN 6AM AND 7PM, 7 DAYS A WEEK. ONE-WAY TRAFFIC WITH FLAGGERS SHALL BE PERMITTED ON KYLES STATION ROAD WITH THE EXCEPTION OF THE FOLLOWING HOURS

6 AM TO 9 AM AND 3:PM TO 7:00 PM.

DURING THE COURSE OF THE NORMAL WORKING DAY, THE CONTRACTOR SHALL INSURE THE SAFETY OF THE PUBLIC BY PROVIDING A SUFFICIENT NUMBER OF FLAGGERS TO ASSIST THE TRAFFIC FLOW THROUGH THE CONSTRUCTION AREA. IF, AT THE COMPLETION OF THE NORMAL WORKING DAY, ANY TRENCH FOR PAVEMENT CONSTRUCTION AND/OR CONSTRUCTION OF PROPOSED SEWER HAS NOT BEEN COMPLETELY BACK FILLED AND RESTORED, A TEMPORARY COVER, SUCH AS A METAL PLATE OR ANOTHER APPROVED DEVICE, SHALL BE PLACED OVER THAT PORTION OF THE TRENCH REMAINING OPEN.

DURING THE REPAIR OF THE BASE PAVEMENT AND/OR THE CONSTRUCTION OF THE ASPHALT COURSES FOR THE ROADWAY, THE CONTRACTOR WILL BE PERMITTED TO CLOSE ONE LANE OF PAVEMENT WHILE MAINTAINING TRAFFIC IN THE OTHER LANE ON AN ALTERNATING FLOW BASIS. THE CLOSING OF THE LANE TO TRAFFIC WILL BE PERMITTED DURING THE ABOVE OPERATIONS AND FOR THE PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR THE PROTECTION OF THE COMPLETED ASPHALT COURSES.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO STRICTLY ADHERE TO ALL APPLICABLE SECTIONS FOR THE MAINTENANCE OF TRAFFIC, PUBLIC SAFETY AND PUBLIC CONVENIENCE AS SET FORTH IN THE C&MS AND THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". THE CONTRACTOR WILL NOT BE PERMITTED TO BEGIN ANY PHASE OF WORK UNTIL THE REQUIRED STANDARD BARRICADES, WARNING SIGNS, ETC. ARE IN THE PROPER POSITION. THE DEVICES PROVIDED FOR THIS REQUIREMENT MUST BE IN FIRST CLASS CONDITION.

FACES OF CONSTRUCTION SIGNS, BARRICADES, VERTICAL PANELS AND DRUM BANDS SHALL BE REFLECTORIZED WITH TYPE "G" SHEETING, COMPLYING WITH THE REQUIREMENTS OF THE PERTINENT SECTIONS OF THE C&MS.

PAYMENT FOR THE WORK WILL BE MADE AT THE LUMP SUM AMOUNT BID FOR ITEM 614, MAINTAINING TRAFFIC.

THE SIGNS SHALL BE BLACK ON ORANGE (INCLUDING A BLACK BORDER). THE LAYOUT SHALL BE IN CONFORMANCE WITH TEM SECTION 211.

WHEN REGULATORY INFORMATION IS PROVIDED, IT SHALL BE DISPLAYED SEPARATELY AS A STANDARD BLACK-ON-WHITE SIGN. MIXING OF BLACK-ON-WHITE REGULATORY INFORMATION ON A BLACK-ON-ORANGE INFORMATION SIGN IS PROHIBITED.

IF THE MOTORIST IS BEING DETOURED OR IF AN ALTERNATE ROUTE IS PROVIDED, THE ROUTE SHOULD BE SIGNED WITH ASSEMBLIES CONSISTING OF THE APPROPRIATE BLACK-ON-ORANGE DETOUR OR ALT MARKER WITH A STANDARD ROUTE MARKER AND ARROW PLATE. IF MORE TARGET VALUE IS DESIRED, THIS TRAIL BLAZER INFORMATION MAY BE SHOWN ON AN ORANGE PANEL (OMUTCD SECTION 2D.32). ROUTE SIGN ASSEMBLIES SHALL BE SIZED ACCORDING TO THE TYPE OF ROAD ON WHICH THEY ARE LOCATED IN ACCORDANCE WITH THE OMUTCD.

SUPPORTS FOR SIGN INSTALLATIONS SHALL CONFORM TO ALL EXISTING STANDARDS FOR PERMANENT SIGNS. THESE SIGNS SHOULD NOT BE ATTACHED TO EXISTING SUPPORTS.

WHERE THE PLANS CALL FOR AN OVERLAY TO COVER A PORTION OF AN EXISTING SIGN, THE OVERLAY SHALL BE BLACK-ON-ORANGE. LETTER SIZES SHOULD BE THE SAME AS ON THE EXISTING SIGNS. WHEN LANE ARROWS ARE TO BE COVERED, RATHER THAN USING A BLANK OVERLAY, THE LEGEND "LANE CLOSED" SHALL BE USED. WHEN A RAMP IS BEING CLOSED, RATHER THAN USING A BLANK OVERLAY TO COVER THE ENTIRE SIGN, THE LEGEND "CLOSED" SHALL BE USED ON A DIAGONAL OVERLAY (LOWER LEFT TO UPPER RIGHT) ON THE SIGN. THE SIZE OF LETTERING ON OVERLAYS AND THE SIZE OF THE OVERLAY ARE INDICATED IN THE PLANS. THE MINIMUM LETTER SIZE FOR "LANE CLOSED" SHALL BE 10" E. THE MINIMUM LETTER SIZE FOR THE DIAGONAL "CLOSED" OVERLAY SHALL BE 12" E.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 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.

PAYMENT FOR ALL WORK INCLUDING ALL ADVANCE WORK ZONE INFORMATION SIGN INSTALLATIONS LOCATED OUTSIDE OF THE PROJECT WORK LIMITS SHALL BE INCLUDED IN ITEM 614 - MAINTAINING TRAFFIC.

TRENCH FOR WIDENING

A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UN-COMPLETED BASE WIDENING SHALL BE BACK FILLED AT THE DIRECTION OF THE ENGINEER.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES. THE PAYMENT FOR THIS ITEM IS INCLUDED IN PAY ITEM 614 - MAINTAINING TRAFFIC.

ITEM 616, WATER 4 M. GAL

ITEM 614 - MAINTAINING TRAFFIC

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL DEVISE A MAINTENANCE OF TRAFFIC SCHEME WHICH SHALL BE STAMPED BY A PROFESSIONAL ENGINEER, AND PRESENT IT TO THE ENGINEER FOR APPROVAL. THE MAINTENANCE OF TRAFFIC SCHEME SHALL PRESENT, IN GENERAL, THE METHOD FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND EFFICIENT MANNER.

THE PLANS SHALL INCLUDE THE FOLLOWING COMPONENTS:

THE PLAN VIEW AT AN APPROPRIATE SCALE TO SHOW: WORK AREA BEGIN/END STATIONING OF TAPERS, TEMPORARY MARKINGS, ETC.

TEMPORARY PAVEMENT

LOCATIONS OF SIGNS (EXISTING OVERHEAD SIGNS AND ALL PROPOSED, COVERED, OR MODIFIED SIGNS) LOCATIONS OF TYPICAL SECTIONS REFERENCES TO APPLICABLE STANDARD DRAWINGS TYPICAL SECTIONS SHOWING: LANE WIDTHS, PAVEMENT MARKINGS, DRUMS, PCB, ETC. LIMITING STATIONS WORK AREA AND DROP-OFFS SIGN DETAILS FOR PROPOSED SIGNS AND OVERLAYS/ MODIFICATIONS

THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL

PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN.

THESE PLANS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE HAMILTON COUNTY ENGINEER'S OFFICE SHALL HAVE 14 CALENDAR DAYS TO REVIEW AND COMMENT ON THESE PLANS. THE CONTRACTOR SHALL NOT BEGIN ANY WORK REQUIRING TRAFFIC CONTROL UNTIL THE ENGINEER HAS GIVEN APPROVAL OF THE CONTRACTOR'S SEQUENCE OF OPERATIONS AND MAINTENANCE OF TRAFFIC PLANS.

THE MAINTENANCE OF TRAFFIC SCHEME SHALL TAKE INTO CONSIDERATION SNOW AND ICE OPERATIONS FROM DECEMBER 1 THROUGH MARCH 31. LANE SHIFTS, RESTRICTIONS, AND CLOSURES MAY NOT BE APPROVED IF THEY ADVERSELY AFFECT SNOW REMOVAL OPERATIONS.

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OHIO DEPARTMENT OF TRANSPORTATION

100% BID/PERMIT ISSUE 1/27/17

MAINTENANCE OF TRAFFIC NOTES STATE ROUTE 4

CALCULATED JA CHECKED JA

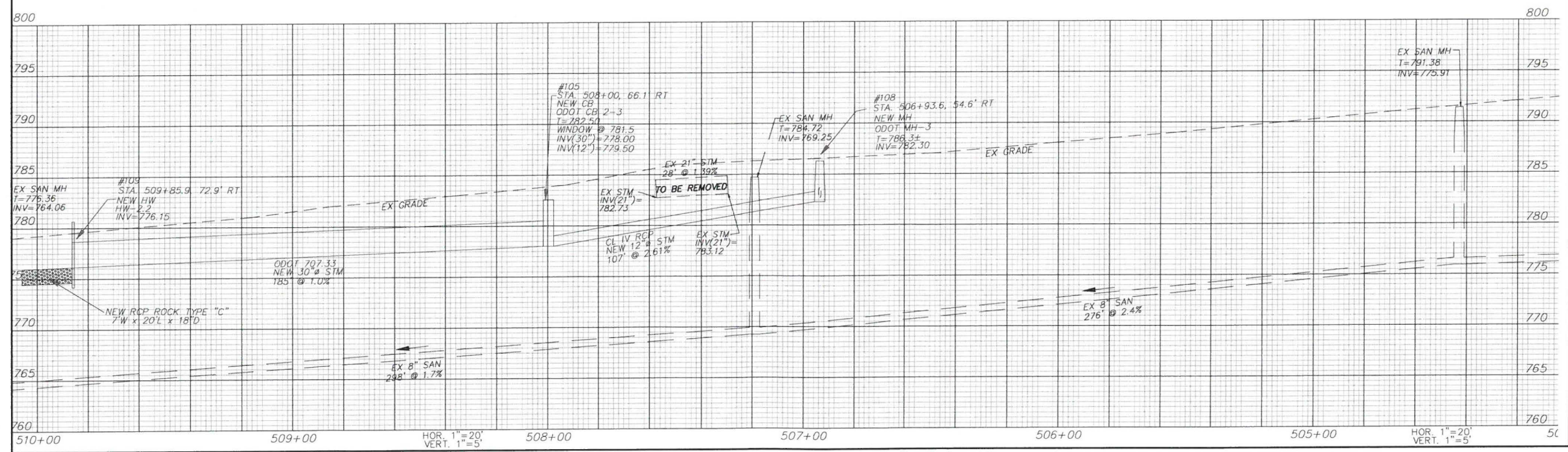
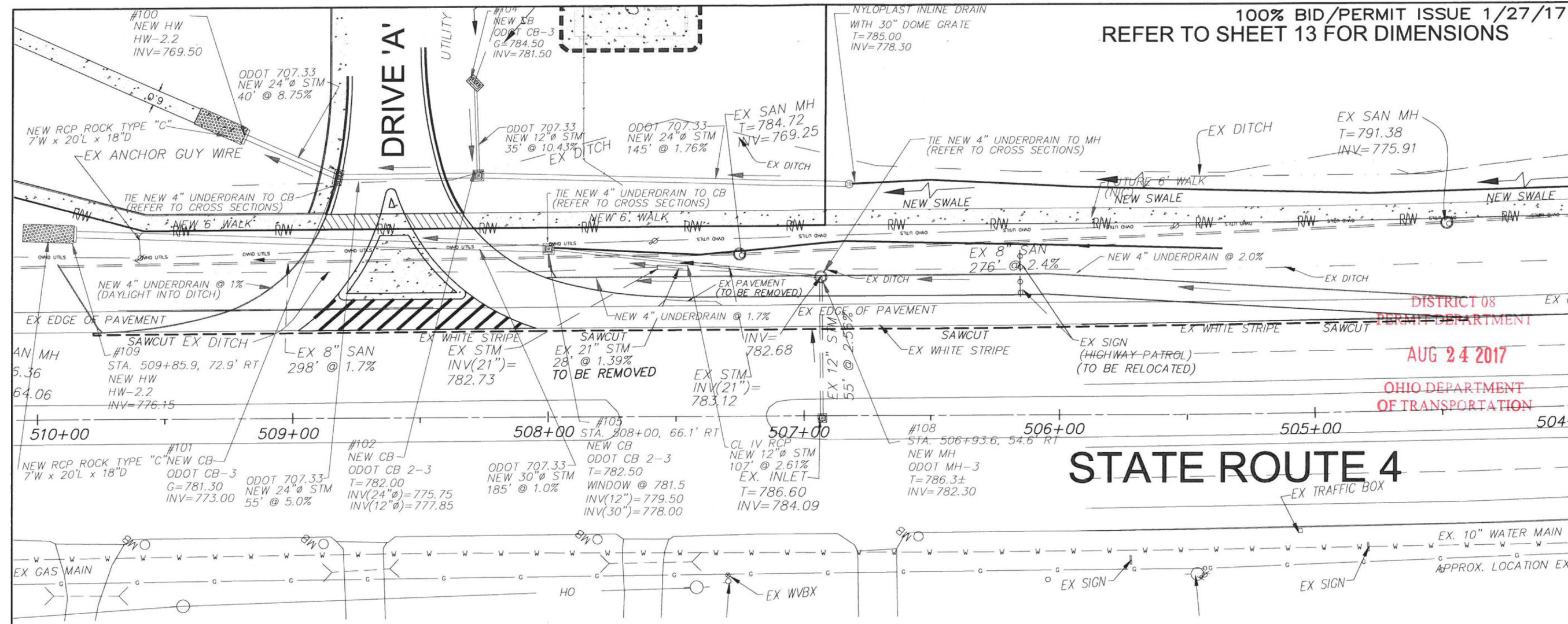


100% BID/PERMIT ISSUE 1/27/17  
 REFER TO SHEET 13 FOR DIMENSIONS



HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=5'

CHECKED: JJK  
 CALCULATED: TG



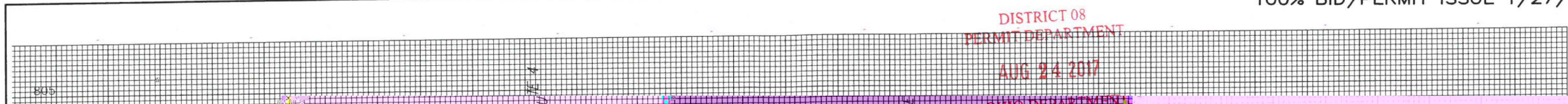
PLAN AND PROFILE  
 STA. 504+00 TO STA 510+00

STATE ROUTE 4  
 LIBERTY TOWNSHIP



DISTRICT 08  
PERMIT DEPARTMENT

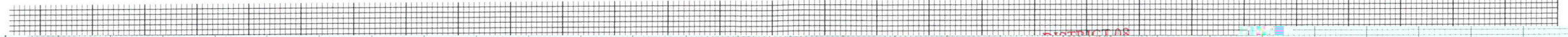
AUG 24 2017



805  
TOTAL  
FEET

OF TRANSPORTATION

100% BID/PERMIT ISSUE 1/27/17



805

805

SUBSIDIAR  
DISTRICT  
PERMIT DEPARTMENT

AUG 24 2017  
AUG 21 644

800

800

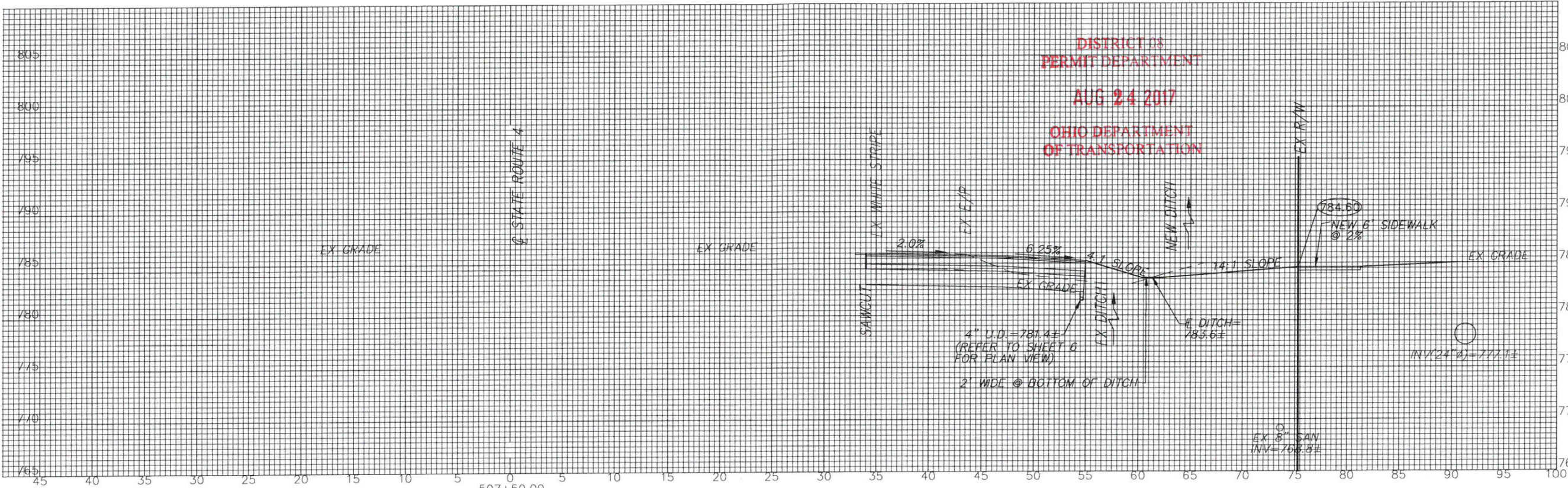
ZONAL  
IN FEET

FOR  
PALE

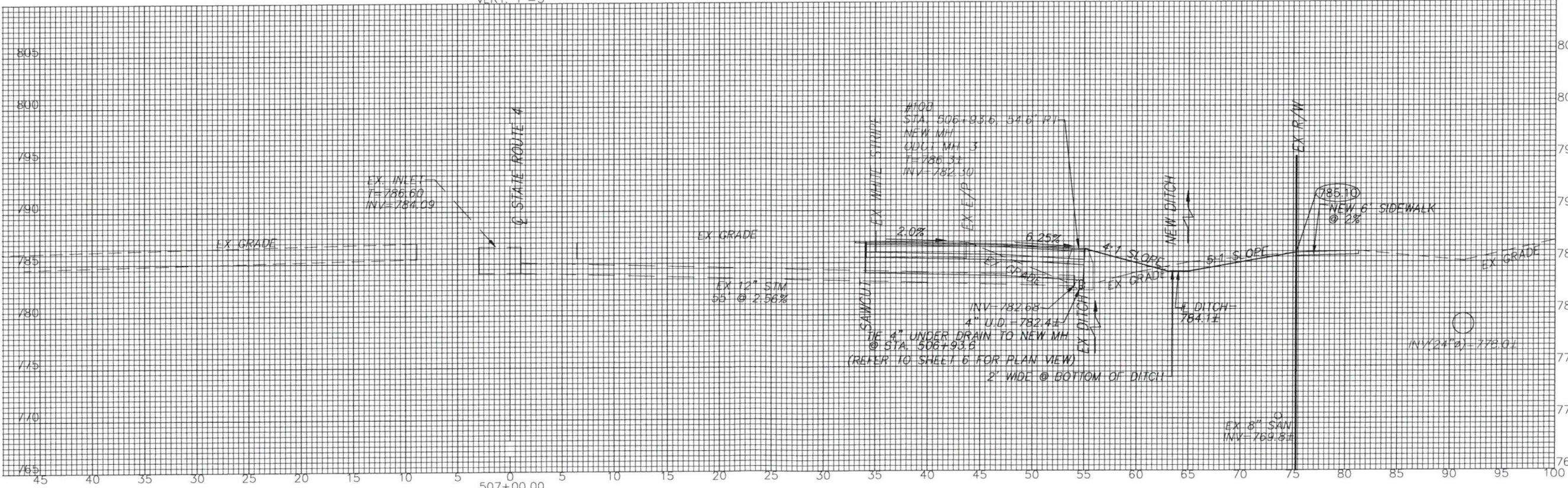




DISTRICT 13  
 PERMIT DEPARTMENT  
 AUG 24 2017  
 OHIO DEPARTMENT  
 OF TRANSPORTATION



507+50.00  
 786.00  
 HOR. 1"=5'  
 VERT. 1"=5'



507+00.00  
 787.00  
 HOR. 1"=5'  
 VERT. 1"=5'

CALCULATED	JK
CHECKED	TG

HORIZONTAL SCALE IN FEET

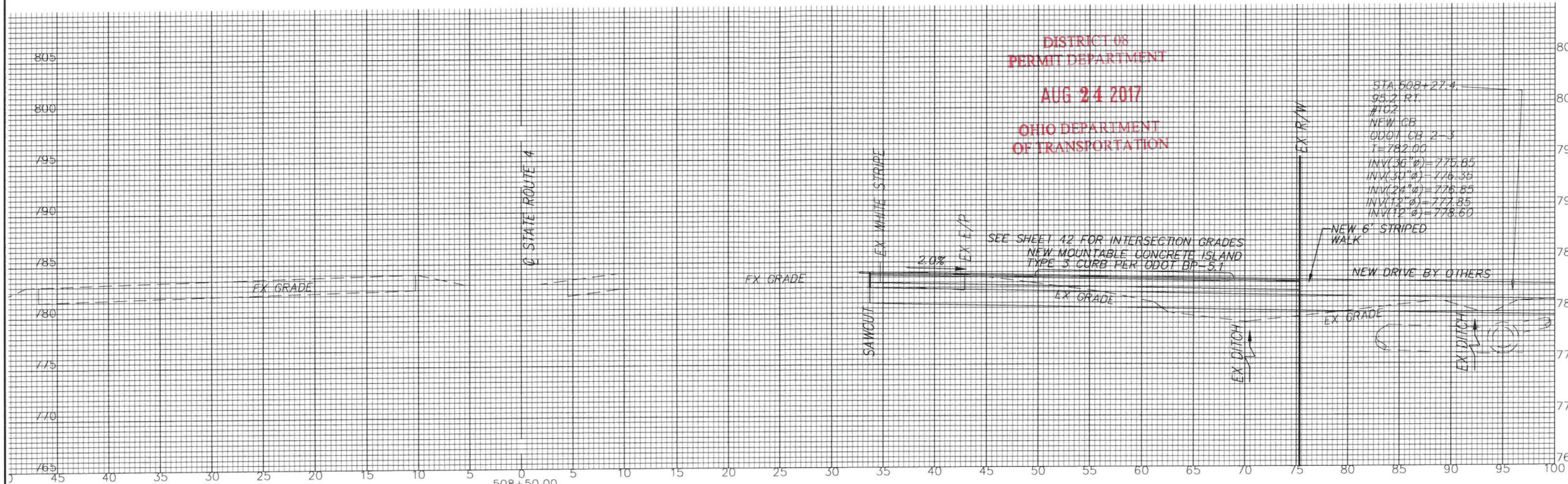
SECTIONS  
 STA. 507+00 TO STA 507+50

STATE ROUTE 4  
 LIBERTY TOWNSHIP

10  
 18



DISTRICT 08  
 PERMIT DEPARTMENT  
 AUG 24 2017  
 OHIO DEPARTMENT  
 OF TRANSPORTATION



CALCULATED	JK
CHECKED	TG

HORIZONTAL SCALE IN FEET

SECTIONS  
 STA. 508+00 TO STA 508+50

STATE ROUTE 4  
 LIBERTY TOWNSHIP

11  
 18





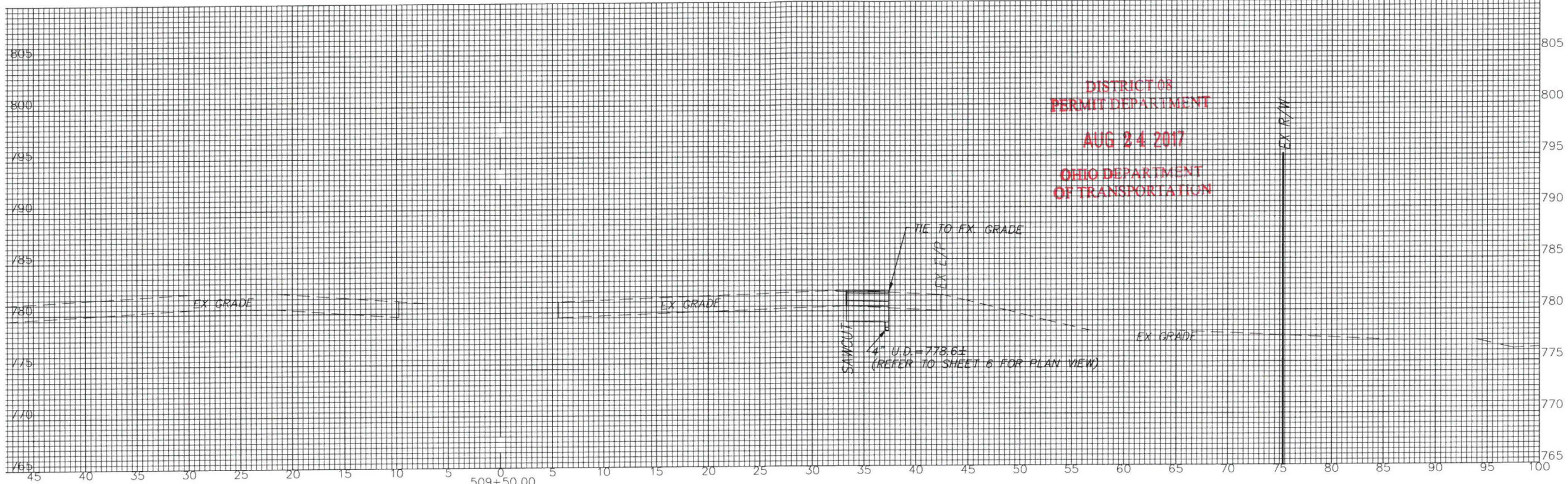
HORIZONTAL SCALE IN FEET

CHECKED  
TG

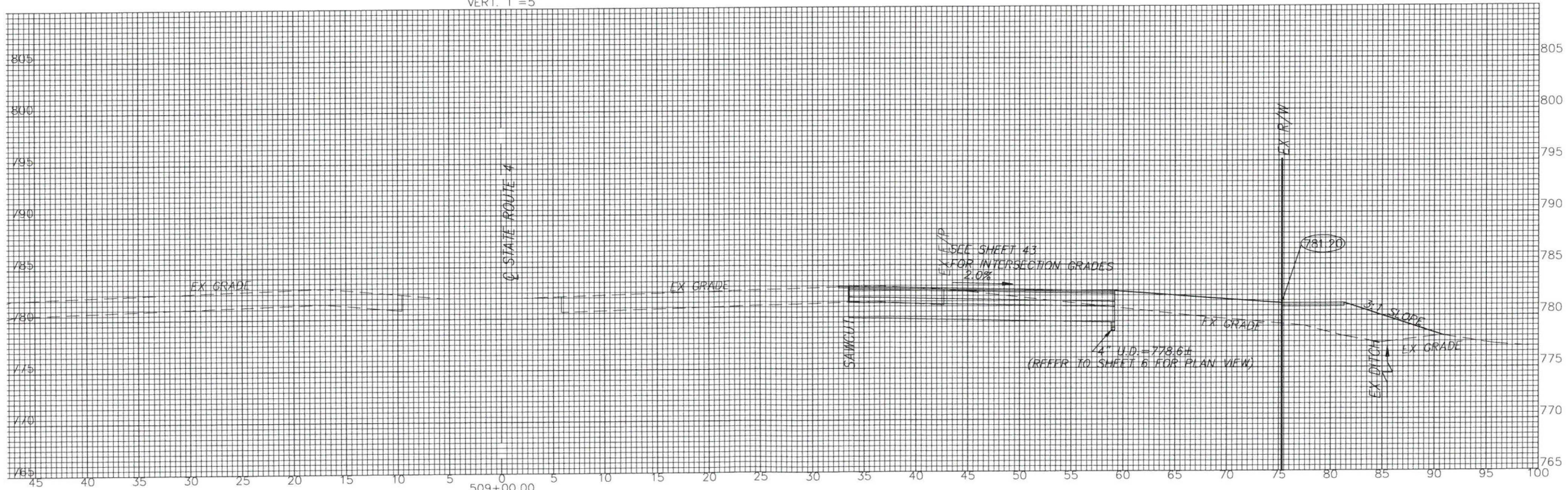
12  
18

SECTIONS  
STA. 509+00 TO STA 509+50

STATE ROUTE 4  
LIBERTY TOWNSHIP



509+50.00  
781.00  
HOR. 1"=5'  
VERT. 1"=5'






509+00.00  
782.00  
HOR. 1"=5'  
VERT. 1"=5'



100% BID/PERMIT ISSUE 1/27/17

PROPOSED CONDITIONS LEGEND

-  INDICATES PROPOSED ASPHALT GRADES
-  INDICATES NEW ASPHALT PAVEMENT AREA (SEE TYPICAL SECTION ON SHEET 3)
-  INDICATES REVERSE SLOPE ON GUTTER PLATE



HORIZONTAL SCALE IN FEET  
0 20 40  
LATED 0  
KED



# STATE ROUTE 4 LAYOUT & GRADING PLAN

SCALE 1"=20'

DISTRICT 08  
PERMIT DEPARTMENT  
AUG 24 2017

IN DETAIL



SEC. 4  
SEC. 10

FOUND IRON PIN  
(BENT)  
0.14' E  
0.26' S

DALLAS MYERS ENTERPRISES, LTD.  
O.R. 7660 PG. 2250  
\* B.C.R.O.  
AUD. D2010008000000000

FOUND IRON PIN  
(APEX)  
0.56' E  
0.26' S

SEC. 10

PERMIT ISSUE 1 / 27/17



CALCULATED 0  
JKK  
CHECKED TG  
HORIZONTAL SCALE IN FEET

FUTURE KROGER BUILDING  
F.F.E.=799.00  
SUB-GRADE=798.33

STATE OF OHIO  
AUD. D2010008000000000  
PERMIT FROM O.D.O.T. IS REQUIRED  
FOR WORK IN THE RIGHT OF WAY

(HAMILTON-MIDDLETOWN ROAD)  
STATE ROUTE 4  
R/W VARIES

MATCH LINE (REFER TO SHEET 15)

SEE SEPARATE PLANS FOR RIGHT IN/RIGHT OUT DRIVE  
AND OTHER WORK IN S.R. 4  
O.D.O.T. PERMIT REQUIRED



PROJECT BENCHMARK  
FOUND IRON PIN IN MONUMENT BOX  
AT SOUTHEAST CORNER OF SECTION 10  
IRON PIN ELEVATION=793.32

PROPOSED CONDITIONS LEGEND  
— 806 — INDICATES PROPOSED CONTOURS  
[806.50] + INDICATES PROPOSED ASPHALT GRADES  
→ INDICATES PROPOSED DRAINAGE FLOW ROUTE

EXISTING CONDITIONS LEGEND  
796 INDICATES EXISTING CONTOUR ELEVATIONS

1% E  
100

DISTRICT IV  
PERMIT DEPARTMENT  
AUG 24 2017  
OHIO DEPARTMENT  
OF TRANSPORTATION

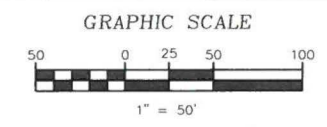
GRADING PLAN

STATE ROUTE 4  
LIBERTY TOWNSHIP

14  
18



**PROJECT BENCHMARK**  
 FOUND IRON PIN IN MONUMENT BOX  
 AT SOUTHEAST CORNER OF SECTION 10  
 IRON PIN ELEVATION=793.32



- PROPOSED CONDITIONS LEGEND**
- 806 — INDICATES PROPOSED CONTOURS
  - 806.50 + INDICATES PROPOSED ASPHALT GRADES
  - INDICATES PROPOSED DRAINAGE FLOW ROUTE
- EXISTING CONDITIONS LEGEND**
- - - 796 - - - INDICATES EXISTING CONTOUR ELEVATIONS

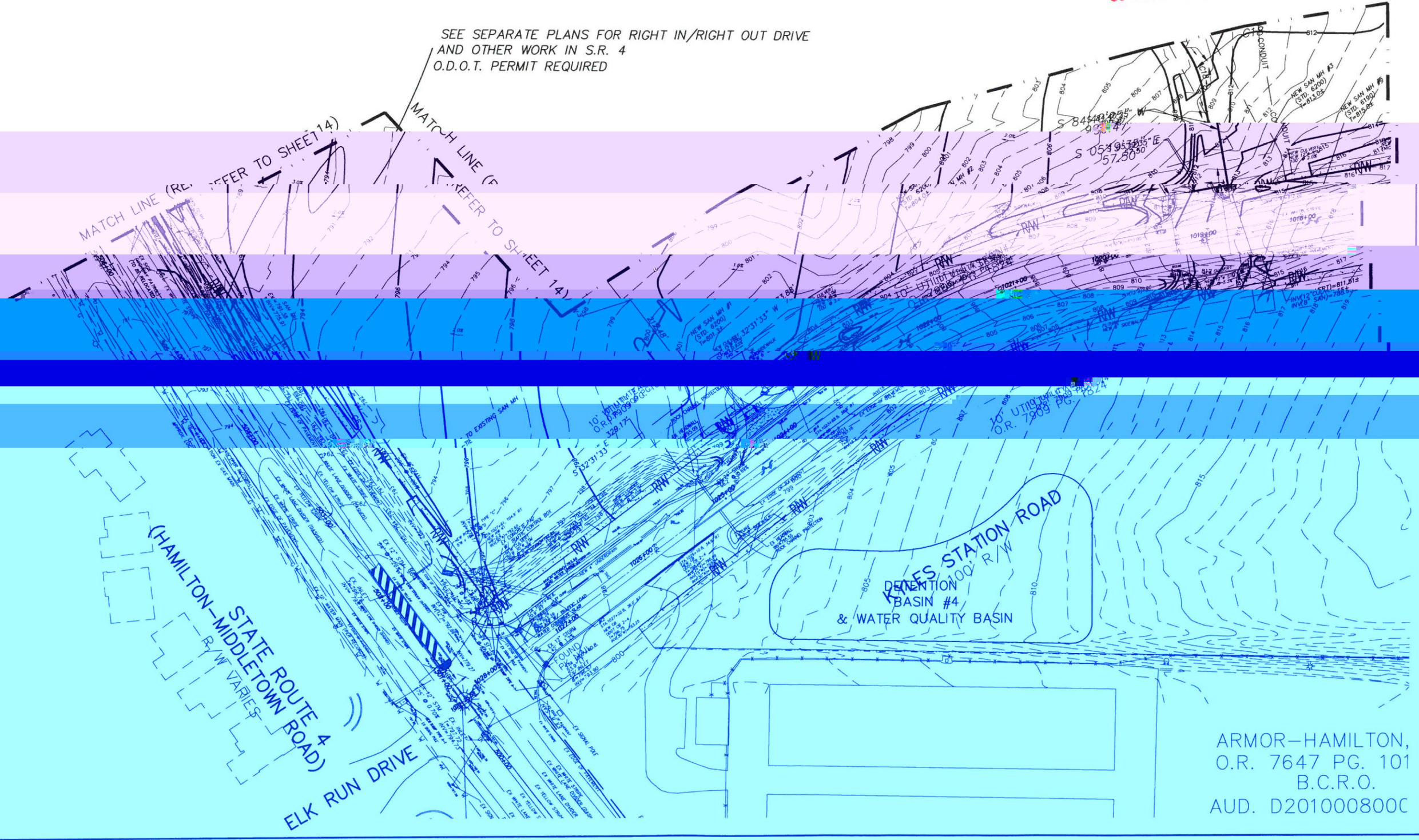
**DISTRICT 08**  
**PERMIT DEPARTMENT**  
**AUG 24 2017**  
**OHIO DEPARTMENT**  
**OF TRANSPORTATION**

100% BID/PERMIT ISSUE 1/27/17

CALCULATED	JK
CHECKED	TG

HORIZONTAL SCALE IN FEET

SEE SEPARATE PLANS FOR RIGHT IN/RIGHT OUT DRIVE  
 AND OTHER WORK IN S.R. 4  
 O.D.O.T. PERMIT REQUIRED

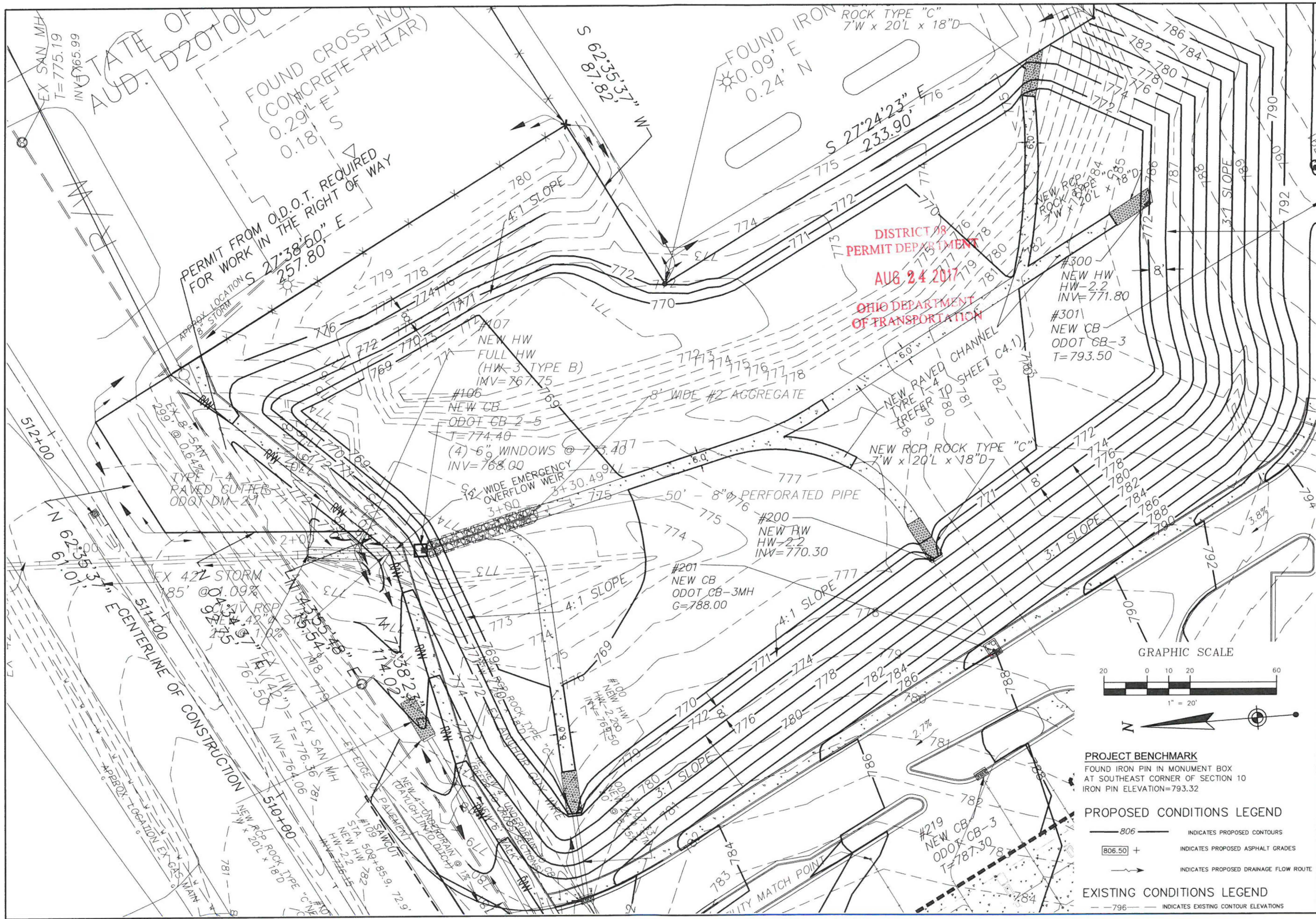


GRADING PLAN

ARMOR-HAMILTON,  
 O.R. 7647 PG. 101  
 B.C.R.O.  
 AUD. D201000800C

STATE ROUTE 4  
 LIBERTY TOWNSHIP





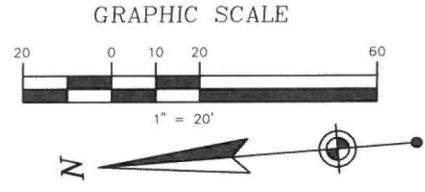
PERMIT FROM O.D.O.T. REQUIRED FOR WORK IN THE RIGHT OF WAY

DISTRICT 08 PERMIT DEPARTMENT  
 AUG. 24 2017  
 OHIO DEPARTMENT OF TRANSPORTATION

PROJECT BENCHMARK  
 FOUND IRON PIN IN MONUMENT BOX AT SOUTHEAST CORNER OF SECTION 10  
 IRON PIN ELEVATION=793.32

- PROPOSED CONDITIONS LEGEND
- 806 — INDICATES PROPOSED CONTOURS
  - 806.50 + INDICATES PROPOSED ASPHALT GRADES
  - INDICATES PROPOSED DRAINAGE FLOW ROUTE

- EXISTING CONDITIONS LEGEND
- 796 — INDICATES EXISTING CONTOUR ELEVATIONS



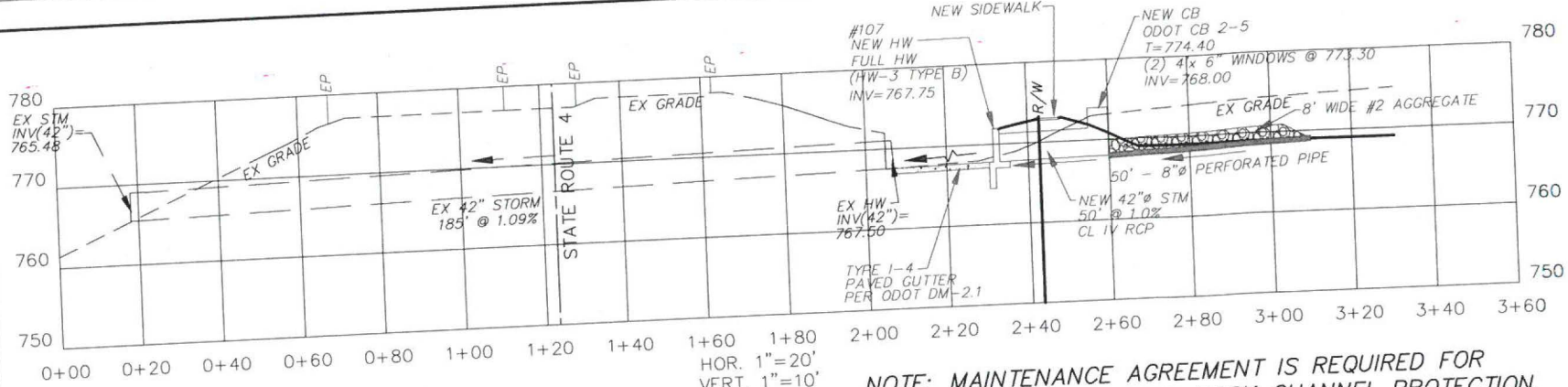
CALCULATED BY JJK  
 CHECKED BY TG  
 HORIZONTAL SCALE IN FEET  
 1" = 20'

GRADING PLAN  
 100% BID/PERMIT ISSUE 1/27/17

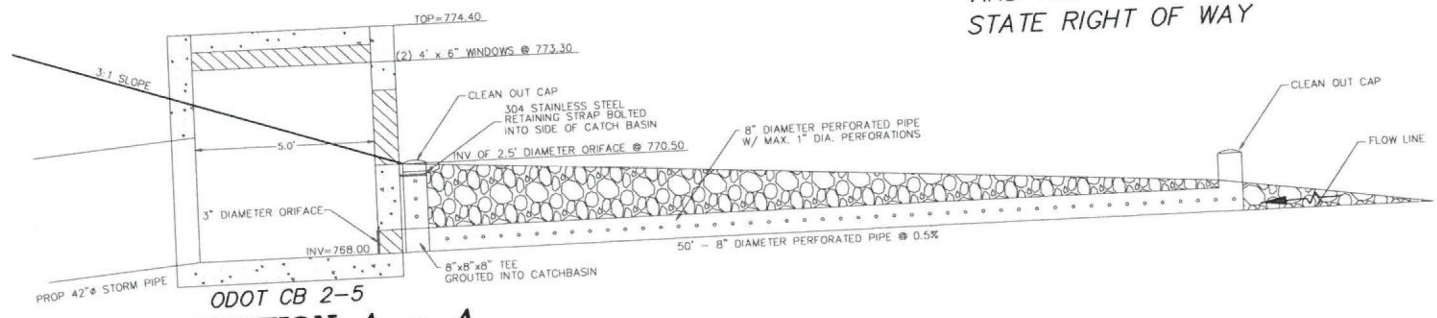
STATE ROUTE 4  
 LIBERTY TOWNSHIP

16  
 18



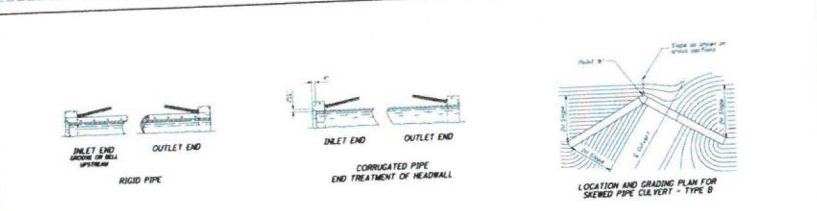
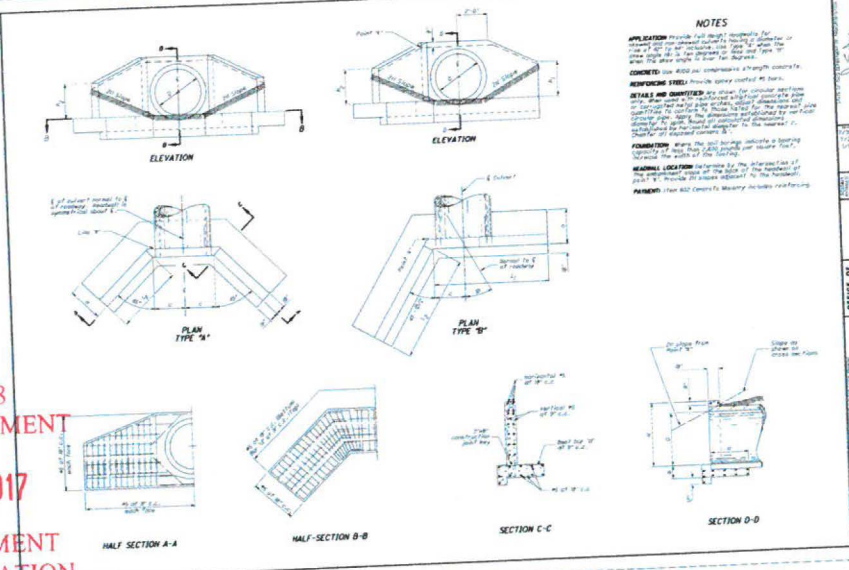
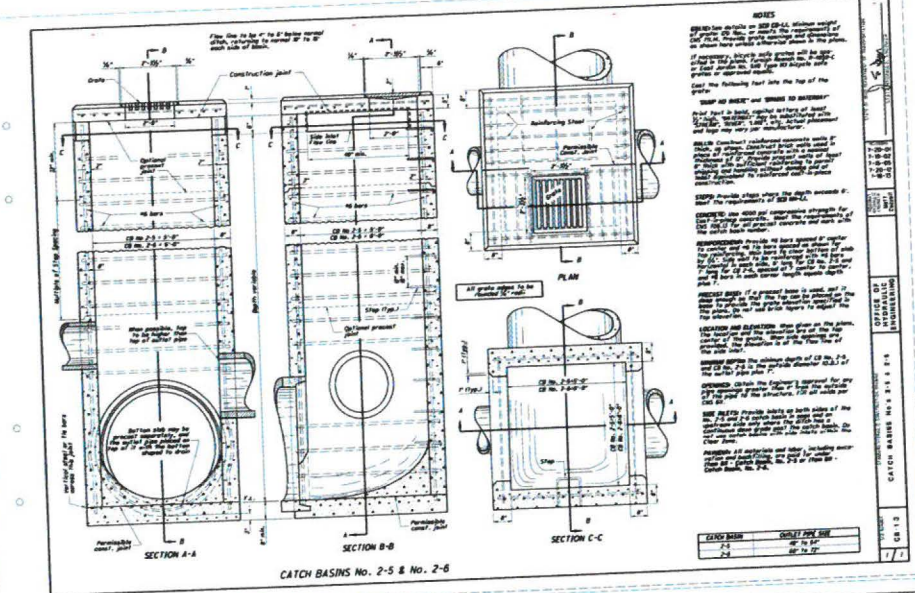


NOTE: MAINTENANCE AGREEMENT IS REQUIRED FOR STORM STRUCTURE, ROCK CHANNEL PROTECTION, AND NEW EMBANKMENT MATERIAL WITHIN STATE RIGHT OF WAY



ODOT CB 2-5  
**SECTION A - A**  
NOT TO SCALE

NOTE: THIS IS THE FINAL CONFIGURATION FOR THE STORM WATER QUALITY/DETENTION POND. THIS STEP TO BE COMPLETED ONCE THE SITE IS STABILIZED AND THE SEDIMENT IS REMOVED FROM THE BASIN. SEE SHEET EC1.3 FOR THE CONFIGURATION OF THE OUTLET STRUCTURE FOR THE SEDIMENT CONTROL DURING CONSTRUCTION PHASE



PIPE DIA.	H	B	C	D	SLOPE		WIND		WIND		WIND		WIND		WIND	WIND	WIND	WIND
					1	2	1	2	1	2	1	2						
18"	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24"	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
30"	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
36"	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
42"	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

DISTRICT 08  
PERMIT DEPARTMENT  
AUG 24 2017  
OHIO DEPARTMENT OF TRANSPORTATION

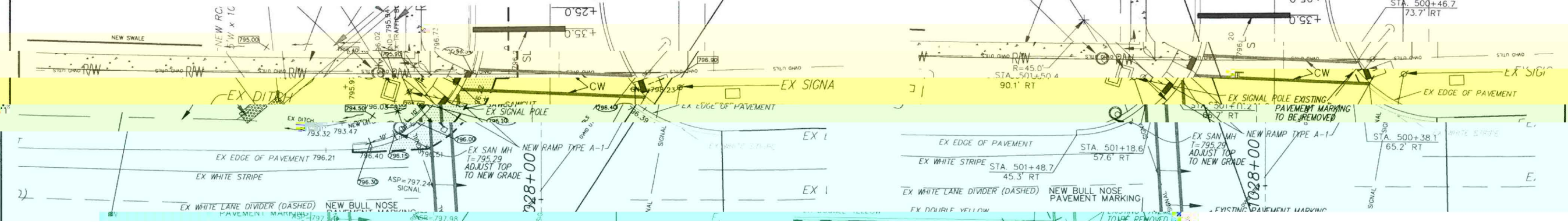
CALCULATED 0  
 CHECKED JJK  
 HORIZONTAL SCALE IN FEET  
 1" = 20'  
 1/27/17  
 100% BID/PERMIT ISSUE  
 STATE ROUTE 4  
 LIBERTY TOWNSHIP  
 17  
 18



**KYLES  
STATION  
ROAD**  
REFER TO PLANS FOR  
KYLES STATION ROAD  
MATCH LINE  
STA. 1027+50 (KS)

CENTERLINE OF CONSTRUCTION  
STATION EQUATION - CENTERLINE INTERSECTION  
 $1028+25.58$  (KYLES STATION ROAD) =  
 $500+75.18$  (STATE ROUTE 4)

**KYLES  
STATION  
ROAD**  
REFER TO PLANS FOR  
KYLES STATION ROAD  
MATCH LINE  
STA. 1027+50 (KS)



40  
20  
0  
HORIZONTAL  
SCALE IN FEET

ALLOU  
JK  
ED  
CHECKI  
TG

O.K. 4

1028+25.58



**POWER SUPPLY FOR TRAFFIC SIGNALS**

ELECTRIC POWER SHALL BE OBTAINED FROM DUKE ENERGY AT THE LOCATION INDICATED ON THE PLANS. POWER SUPPLIED SHALL BE 120 VOLTS. THE POWER SUPPLY SHALL INCLUDE INSTALLATION OF A METER FROM TRAFFIC SIGNAL.

**SIGNAL ACTIVATION**

PRIOR TO ACTIVATING THE NEW TRAFFIC SIGNAL TO STOP AND GO MODE AND/OR REMOVING THE EXISTING TRAFFIC SIGNAL FROM SERVICE, ALL ITEMS IN THE PROPOSED SIGNAL PLAN SHALL BE FULLY COMPLETED, (I.E., VEHICLE DETECTION, PEDESTRIAN SIGNAL HEADS, ETC). IF THERE ARE CONTRACTIBILITY ISSUES (I.E., ROADWAY WIDENING, ETC.) THAT PREVENT THE SIGNAL FROM BEING COMPLETED PRIOR TO ACTIVATION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER AND BCEO TRAFFIC ENGINEER. THE BCEO TRAFFIC ENGINEER WILL THEN REVIEW, APPROVE OR REJECT PROPOSALS TO ACTIVATE THE TRAFFIC SIGNAL PRIOR TO COMPLETION.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND BUTLER COUNTY TRAFFIC ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION OF THE SIGNAL INSTALLATION. FINAL INSPECTION IS NOT CONSIDERED COMPLETE UNTIL DESIGNATED DISTRICT TRAFFIC PERSONNEL INSPECT THE TRAFFIC SIGNAL AND ISSUE WRITTEN APPROVAL. IF ISSUES ARE FOUND DURING THE FINAL INSPECTION THAT EFFECT THE SAFETY OF THE TRAVELING PUBLIC AND/OR THE EFFICIENCY OF THE INTERSECTION, THE SIGNAL SHALL NOT BE ACTIVATED ON THE PROPOSED DATE. ANY PUNCH LIST ITEMS THAT ARE FOUND SHALL BE CORRECTED AND RE INSPECTED BY DISTRICT TRAFFIC PERSONNEL PRIOR TO FINAL ACCEPTANCE. ODOT FORCES SHALL ONLY ASSUME DAY TO DAY MAINTENANCE OF THE TRAFFIC SIGNAL AFTER FINAL WRITTEN ACCEPTANCE HAS BEEN ISSUED.

FOR ADDITIONAL DETAIL ON SIGNAL ACTIVATION SEE ODOT STANDARD DRAWING M-120.00

**WORK INSPECTION**

THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER WITH 72 HOUR NOTICE OF ANY SIGNAL WORK TO BE PERFORMED AT THE INTERSECTION SITE(S) SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

**GUARANTEE**

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 120 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY.

**632 VEHICULAR SIGNAL HEAD, LED, YELLOW, ALUMINUM, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732, THE FOLLOWING REQUIREMENTS SHALL APPLY:

- 1.SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF YELLOW ALUMINIUM WITH VISORS.
2. ALL UPPER SIGNAL SUPPORT HARDWARE AND PIPING UP TO AND INCLUDING THE WIRE INLET FITTING SHALL BE FERROUS METAL.
- 3.THE ENTRANCE FITTING SHALL BE OF THE TRI-STUD DESIGN WITH SERRATED RINGS IN ORDER TO ACHIEVE POSITIVE LOCKING.
- 4.THE LIGHT EMITTING DIODE (LED) SIGNAL LAMP UNITS SHALL MEET THE REQUIREMENTS OF C&MS 732.04-C. THE CONTRACTOR SHALL PROVIDE BCEO, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.
- 5.SIGNAL HEADS SHALL HAVE A MINIMUM WALL THICKNESS OF 0.117 INCHES.
- 6.SIGNAL HEADS SHALL INCLUDE CUTAWAY TYPE VISORS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- 7.APPLY A BEAD OF SILICONE TO THE SIGNAL HEAD, WASHER, AND ENTRANCE ADAPTER SERRATIONS TO PREVENT WATER INTRUSION. ALSO, FILL THE SPACE BETWEEN CONCENTRIC SERRATION RINGS ON THE TOP OF THE SIGNAL HEAD TO COMPLETELY EXCLUDE WATER FROM THE SPACE BETWEEN THE CONCENTRIC RINGS.
- 8.BALANCE ADJUSTERS SHALL NOT BE USED ON ONE-WAY HEADS OR TETHERED HEADS.

PAYMENT FOR ITEM 632 VEHICULAR SIGNAL HEAD, LED, YELLOW, ALUMINIUM, AS PER PLAN SHALL BE MADE FOR COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS, AND NEW ATTACHMENT HARDWARE.

**ITEM 632, PEDESTRIAN SIGNAL HEAD, (LED), (COUNTDOWN), TYPE 02, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF CMS 632 AND 732, THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY:

THE PEDESTRIAN SIGNAL SHALL BE COUNTDOWN TYPE AND DISPLAY THE SYMBOLS FOR THE FILLED UPRaised HAND/FILLED WALKING PERSON.

**RADAR DETECTION**

STOP BAR DETECTION AND ADVANCE DETECTION SHALL BE WAVETRONIX IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 809. THE PAYMENT SHALL BE MADE AS PER THE FOLLOWING PAY ITEMS.

- ITEM 809 EACH - STOP BAR DETECTION
- ITEM 809 EACH - ADVANCE DETECTION

**ITEM 632- REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEMS**

THIS ITEM INCLUDES ALL LABOR AND MATERIAL IN CONNECTION WITH REMOVAL OF TRAFFIC SIGNAL INSTALLATION ITEMS AT THE INTERSECTION OF STATE ROUTE 4 AND KYLES STATION ROAD. THIS ITEMS WILL INCLUDE TRAFFIC SIGNAL CABLES, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PULL BOXES AND ANY OTHER TRAFFIC SIGNAL ITEM TO BE REMOVED AT THE INTERSECTION. THE PAYMENT FOR ALL LABOR AND MATERIAL FOR THIS ITEM IS INCLUDED IN THE PAY ITEM 632 - REMOVAL OF TRAFFIC SIGNAL ITEMS. THESE ITEMS SHALL BE STORED OR DISPOSED AS PER THE DIRECTIONS OF ODOT INSPECTOR/REPRESENTATIVE.

**ITEM 633, CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS1, AS PER PLAN**

IN ADDITION TO ITEM 633.07 AND ITEM 733.02, THE CONTROLLER SHALL MEET AS A MINIMUM, ALL APPLICABLE SECTIONS OF THE NEMA TS2 STANDARDS. THIS SPECIFICATION SHALL GOVERN WHERE DIFFERENCES OCCUR IN THE O.D.O.T. STANDARD CONSTRUCTION AND MATERIAL SPECIFICATION.

THE MICROCOMPUTER BASED CONTROLLER SHALL BE CAPABLE OF OPERATING AS A FULL ACTUATED, SEMI-ACTUATED OR VOLUME DENSITY CONTROLLER WITH PEDESTRIAN TIMING IN EITHER AN ISOLATED LOCATION OR AS PART OF A COORDINATED SYSTEM OF CONTROLLERS. THE CONTROLLER UNIT SHALL BE A MODEL ASC/2S-2100 TS2, TYPE 2 CONTROLLER AS MANUFACTURED BY ECONOLITE CONTROL PRODUCTS INC. OF ANAHEIM, CALIFORNIA.

**LOCAL CONTROLLER EQUIPMENT**

THE LOCAL CONTROLLER SHALL INCLUDE ALL SYSTEM INTERFACE AND TELEMETRY NECESSARY FOR FUTURE SYSTEM COMMUNICATION AND COORDINATED SIGNAL OPERATION. THE LOCAL CONTROLLER SHALL BE EQUIPPED TO PROVIDE COMPLETE

UPLOAD AND DOWNLOAD CAPABILITIES OF ALL TRAFFIC TIMING PARAMETERS (PREEMPTION TIMING PARAMETERS AND EXEMPTED) WITH A FUTURE SUB-AREA MASTER.

THE FOLLOWING FEATURES SHALL BE FURNISHED IN ADDITION TO ALL NEMA TS2 STANDARDS: ENHANCED FEATURES OF

**CABINET EQUIPMENT**

THE INTERIOR SHALL BE UNPAINTED NATURAL ALUMINUM, COMMERCIALY SMOOTH AND FREE OF DEFECTS THAT WOULD IMPAIR SERVICE ABILITY OR DETRACT FROM GENERAL APPEARANCE. THE CABINET SHALL CONFORM TO NEMA TS2, TYPE 2 SPECIFICATIONS AND BE FURNISHED FULLY EQUIPPED WITH THE FOLLOWING FEATURES READY FOR CONTROLLER INSTALLATION AS REQUIRED:

A)THE CABINET EXTERIOR SHALL BE UNPAINTED NATURAL ALUMINIUM.

B) ALL CABINETS SHALL BE FURNISHED WITH TWO REMOVABLE SHELVES MOUNTED ON ADJUSTABLE CHANNELS. ALL MOUNTING HARDWARE SHALL BE INCLUDED. THE CABINET FURNISHED FOR THIS ITEM SHALL BE A MODIFIED CABINET IN ACCORDANCE WITH THE NEMA TS2 STANDARDS. THE OUTSIDE DIMENSIONS OF 54"(W) x 55"(H) x 26"(D) AND INSTALLED IN ACCORDANCE WITH O.D.O.T. STANDARD CONSTRUCTION DRAWING TC83.20. THE MODIFIED CABINET SHALL CONTAIN TWO INDIVIDUAL COMPARTMENTS. THE MAIN COMPARTMENT SHALL BE APPROXIMATELY 38"(W) x 26"(D) x 55"(H). THE SECONDARY COMPARTMENT SHALL BE APPROXIMATELY 16"(W) x 26"(D) x 55"(H) AND CONTAIN THREE SLIDE OUT SHELVES FOR EASY REPLACEMENT OF BATTERY BACKUP SYSTEM. EACH COMPARTMENT SHALL INCLUDE A VENT, FAN AND THERMOSTAT AND SHALL BE INDIVIDUALLY KEYS TO THE STATE MASTER #2 LOCK. TWO KEYS SHALL BE SUPPLIED. REFER TO SPECIFICATIONS FOR ITEM 633 CABINET FOUNDATION

AS PER PLAN NOTE FOR DETAILS ON MODIFIED CONTROLLER CABINET.

C) TELEMETRY INTERFACE HARNESSSES AND INTERFACE PANELS AS NEEDED TO COMMUNICATE WITH THE CENTRAL OFFICE AND TO OPERATE THE COORDINATED SIGNAL SYSTEM SHALL BE FURNISHED. THE VENDOR SHALL BE RESPONSIBLE FOR ENSURING RELIABLE COMMUNICATION BETWEEN THE SUB-AREA MASTER CONTROLLER AND THE CENTRAL OFFICE. A SOCKET MOUNTED COMMUNICATION LINE TRANSIENT PROTECTION DEVICE SHALL BE SUPPLIED WITH THE TELEMETRY INTERFACE PANEL. (EDCO MODEL PC642C-008D OR EQUAL) THE TRANSIENT PROTECTION DEVICE SHALL BE WIRED IN SERIES WITH THE TELEMETRY COMMUNICATION CIRCUIT.

D) THE CABINET SHALL BE WIRED SO THAT CONTROLLER PHASE NUMBER SHALL MATCH THE PHASE NUMBER ASSIGNED TO THE SPECIFIED TRAFFIC MOVEMENT AS SHOWN ON THE PLANS.

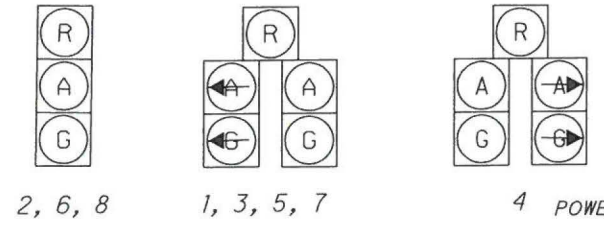
E) FOUR (4), 20 POSITION TERMINAL BLOCKS SHALL BE PROVIDED AT THE TOP OF THE MAIN PANEL TO PROVIDE ACCESS TO THE CONTROLLER UNIT'S PROGRAMMABLE AND NON-PROGRAMMABLE I/O. TERMINAL BLOCKS FOR DC SIGNAL INTERFACING SHALL HAVE A NUMBER 6-32 X 1/8" INCH SCREW AS

201.dgn 12/2/2015 8:35:31 AM Jarnal-Admin



C:\Projects\15017\Design\Signals\Sheets\For\_ODOT\Printing\15017-CP001.dgn 12/2/2015 8:35:32 AM Jamal-Admin

TRAFFIC SIGNAL HEADS  
12" LED



PROPOSED TYPE D2 PEDESTRIAN  
(LED) (COUNTDOWN) SIGNAL HEAD



P1 - P8  
SIGNAL POLE T1  
STA. 1018+76 - 35.7' LT  
ITEMS INSTALLED  
PED. SIGNAL HEAD P1 AND P2  
PUSH BUTTON PB-1  
SIGN S1  
POWER SERVICE DISCONNECT AND METER  
STOP BAR RADAR DETECTOR, ST-1  
DILEMMA ZONE RADAR DETECTOR, DL-1

NOTE:

POWER SERVICE FOR THE TRAFFIC SIGNAL SHALL BE OBTAINED FROM EXISTING POLE LOCATED ON OLD KYLES STATION ROAD APPROXIMATELY 250' FROM THE INTERSECTION WITH KYLES STATION ROAD. THE POLE IS LOCATED ON THE SOUTH SIDE. THE CONDUIT SHALL BE JACKED AND DRILLED UNDER OLD KYLES STATION ROAD.

LEGEND

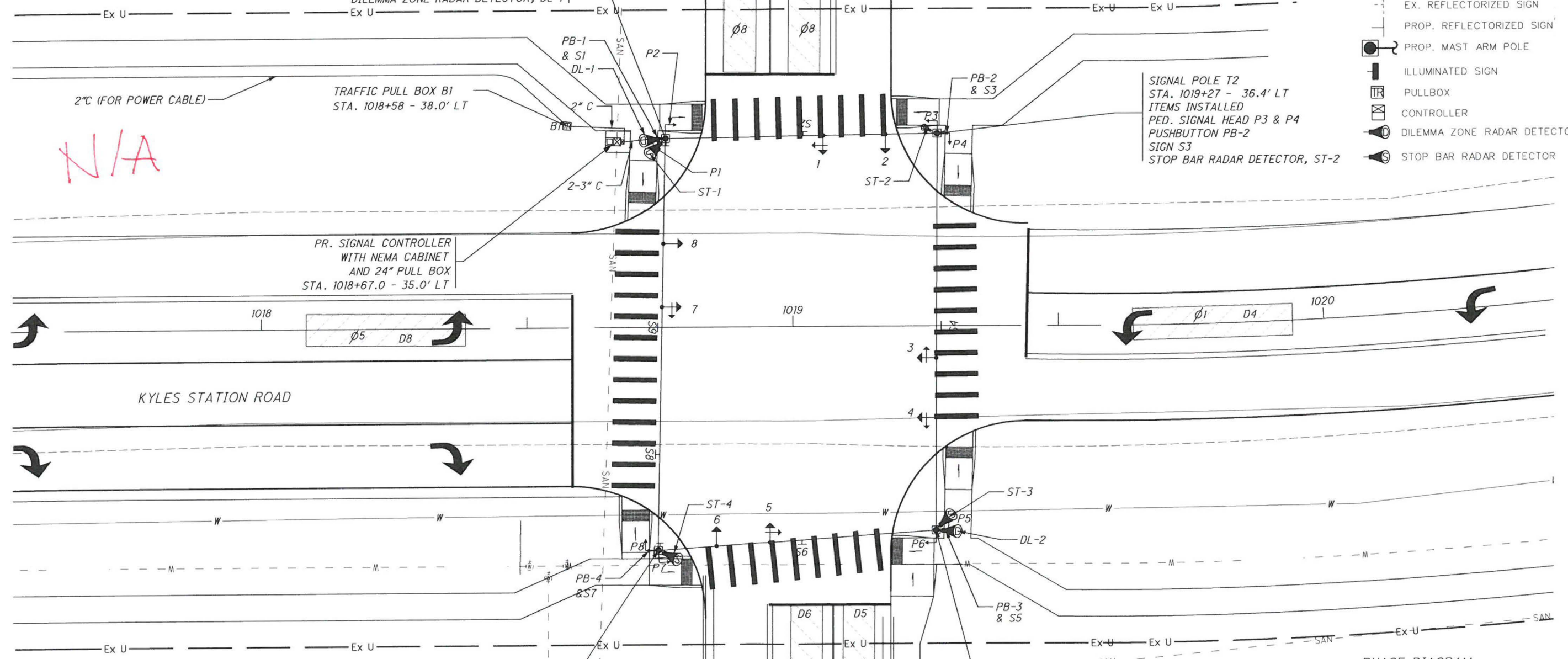
- ◻ PROPOSED STEEL POLE
- ◻ EXISTING STEEL POLE
- WOOD POLE
- ◻ STEEL PEDESTRIAN POST
- TRAFFIC SIGNAL CONDUIT
- EX. TRAFFIC SIGNAL HEAD
- PROP. PEDESTRIAN PUSHBUTTON
- PROP. TRAFFIC SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- EX. REFLECTORIZED SIGN
- PROP. REFLECTORIZED SIGN
- ◻ PROP. MAST ARM POLE
- ILLUMINATED SIGN
- ▭ PULLBOX
- ▭ CONTROLLER
- ◻ DILEMMA ZONE RADAR DETECTOR
- ◻ STOP BAR RADAR DETECTOR



KYLES STATION ROAD AT KROGER DRIVE C  
TRAFFIC SIGNAL PLANS

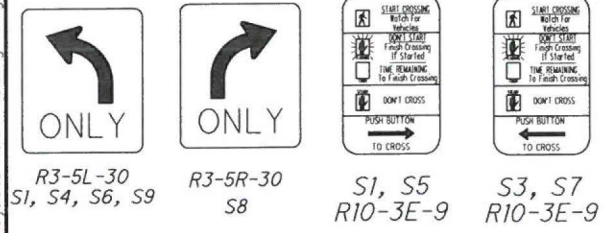
BUT-KSR AT SR4

03  
06



N/A

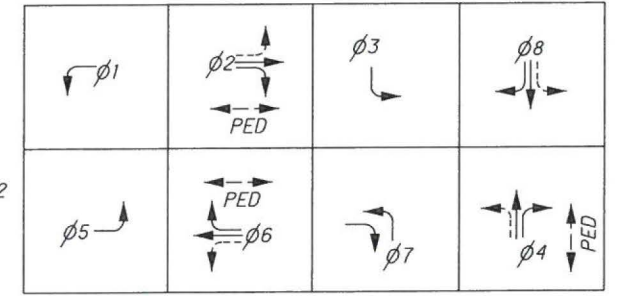
PROPOSED SIGNS



SIGNAL POLE T4  
STA. 1018+75 - 42.1' RT  
ITEMS INSTALLED  
PED. SIGNAL HEADS P7 AND P8  
PUSH BUTTON PB-4  
SIGN S7  
STOP BAR RADAR DETECTOR, ST-4

SIGNAL POLE T3  
STA. 1019+27 - 38.6' RT  
ITEMS INSTALLED  
PED. SIGNAL HEAD P5 & P6  
PUSHBUTTON PB-3  
SIGN S5  
STOP BAR RADAR DETECTOR, ST-3  
DILEMMA ZONE RADAR DETECTOR, DL-2

PHASE DIAGRAM







0 20 40  
HORIZONTAL  
SCALE IN FEET

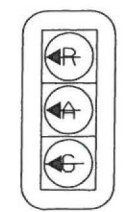
CALCULATED  
JA  
CHECKED  
JA

TRAFFIC SIGNAL PLAN  
STATE ROUTE 4 AT KYLES STATION ROAD

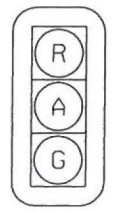
BUT-KSR AT SR 4

05  
06

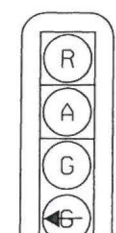
EXISTING TRAFFIC SIGNAL HEADS



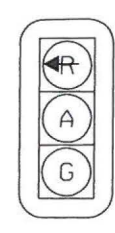
1, 7



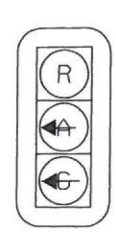
2, 3, 4, 5  
6, 8, 9, 10



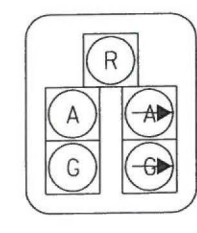
12, 15



14



13



11

NEW TRAFFIC SIGNAL HEADS  
12" LED

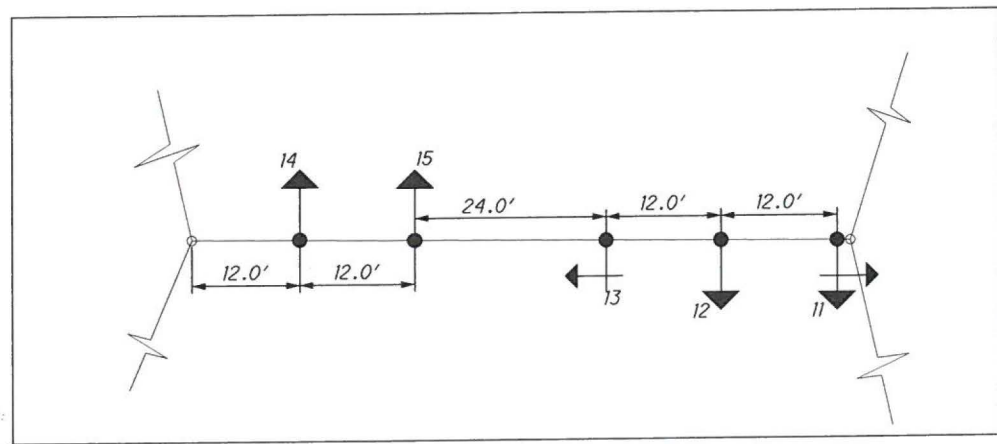
PROPOSED SIGNS



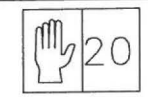
R10-3E-9  
S1



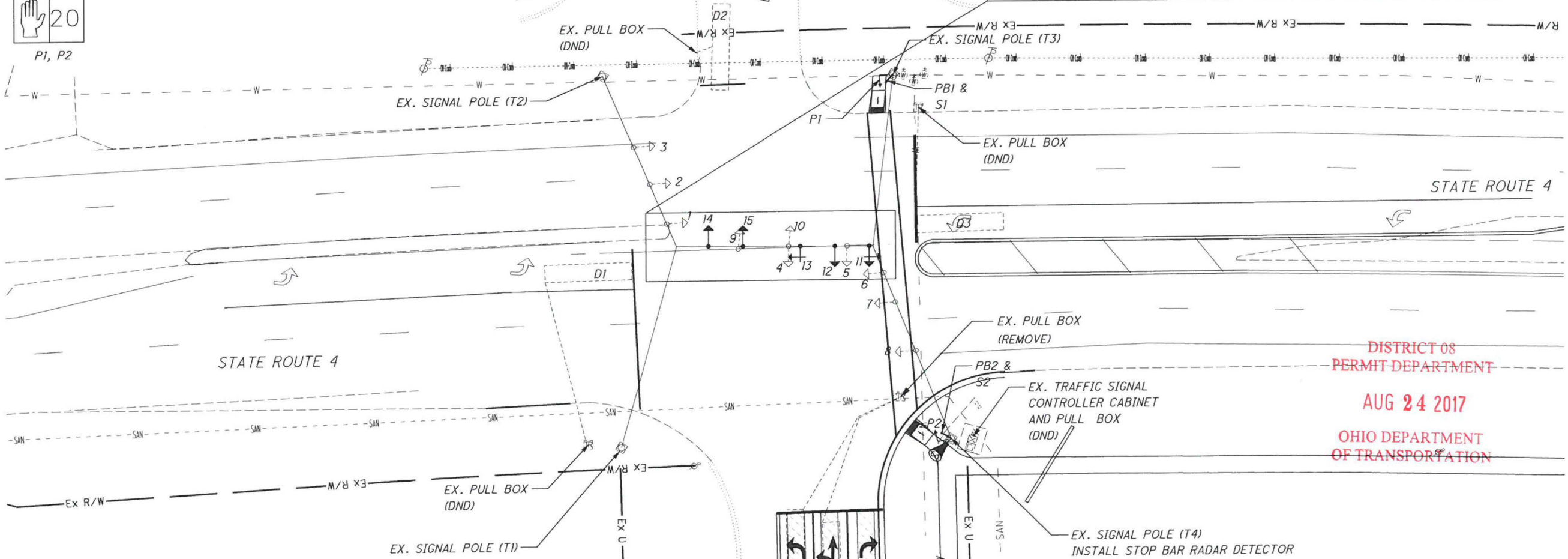
R10-3E-9  
S2



PEDESTRIAN SIGNAL HEADS



P1, P2

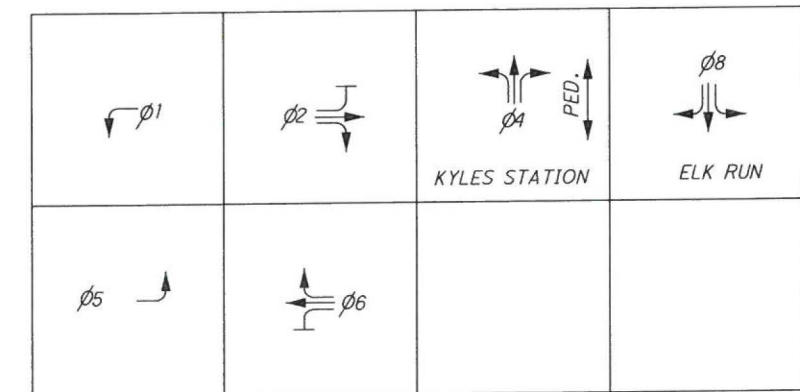


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NOTES:

1. REMOVE SIGNAL HEADS 4, 5, 9 AND 10. (PAY ITEM 632, REMOVAL OF TRAFFIC SIGNAL ITEMS)
2. INSTALL NEW SIGNAL HEADS 11, 12, 13, 14 AND 15.
3. DO NOT DISTURB EXISTING LOOP DETECTORS D1, D2 AND D3.
4. REMOVE EXISTING LOOP DETECTORS D4 AND D5.
5. INSTALL STOP BAR DETECTION UNIT ON POLE T4 FOR DETECTION ZONES D4, D5 AND D6.
6. INSTALL NEW SIGNAL CABLES FOR THE PROPOSED SIGNAL HEADS 11, 12, 13, 14 AND 15.
7. YELLOW AND GREEN RIGHT TURN ARROWS IN SIGNAL HEAD 11 SHOULD BE TIED TO THE PHASE 1 LOAD SWITCH.
8. INSTALL PEDESTRIAN SIGNAL HEADS P1 AND P2.
9. INSTALL PEDESTRIAN PUSHBUTTONS PB-1 AND PB-2 INCLUDING THE SIGNS S1 AND S2.

PHASE DIAGRAM



φ4 AND φ8 SPLIT PHASES (SIDE STREET)

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ITEM	TOTAL	UNIT	DESCRIPTION
632	2	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3-SECTION, 12" LENS, 1-WAY, WITH BACKPLATE
632	1	EACH	VEHICULAR SIGNAL HEAD, (LED) BLACK, 5-SECTION, 12" LENS, 1-WAY, WITH BACKPLATE
632	2	EACH	VEHICULAR SIGNAL HEAD, (LED) BLACK, 4-SECTION, 12" LENS, 1-WAY, WITH BACKPLATE, AS PER PLAN
632	2	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2
632	2	EACH	COVERING FOR VEHICULAR SIGNAL HEADS
632	2	EACH	COVERING FOR PEDESRIAN SIGNA HEADS
632	2	EACH	PEDESTRIAN PUSHBUTTON
632	242	FT	SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG (FOR PUSHBUTTONS)
632	242	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG (FOR PEDESTRIAN SIGNAL HEAD)
632	355	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	70	FT	TETHER WIRE WITH ACCESSORIES
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL ITEMS
809	1	EACH	STOP BAR RADAR DETECTION

TRAFFIC SIGNAL CONTROLLER TIMING CHART

STATE ROUTE 4 AT KYLES STATION ROAD  
MAINTAINING AGENCY: ODOT

START UP  
START IN: ALL RED O  
TIME FOR FLASH OR ALL RED 5  
FIRST PHASE 2+6  
COLOR DISPLAYED: GREEN⊗YELLOW

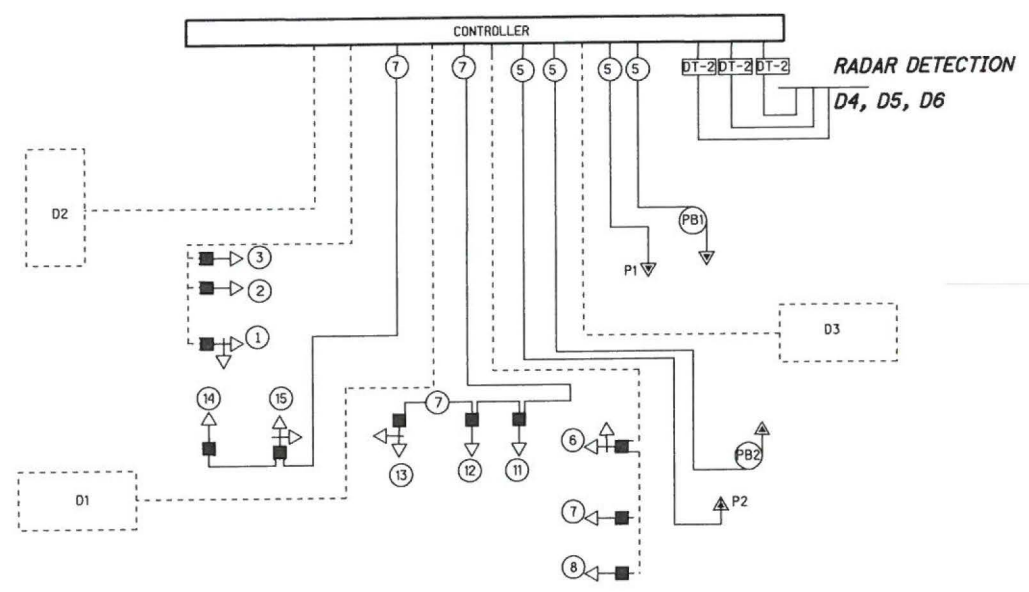
DUAL ENTRY⊗ 2+6 4+8  
REST IN RED: R1O :R2O

INTERVAL OR FEATURE	CONTROLLER MOVEMENT N°							
	1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT	WBLT	EB		SB	EBLT	WB		NB
MINIMUM GREEN (INITIAL) (SEC.)	7	20		10	7	20		10
ADDED INITIAL (SEC./ACTUATION)								
PASSAGE TIME (PRESET GAP)	3	3		3	3	3		3
MINIMUM GAP (SEC.)								
TIME TO REDUCE (SEC.)								
MAXIMUM GREEN I (SEC.)	20	75		25	20	75		40
MAXIMUM GREEN II (SEC.)								
YELLOW CHANGE (SEC.)	4.0	4.0		4.0	4.0	5.0		5.0
ALL RED CLEARANCE (SEC.)	2.0	2.0		2.5	2.0	2.0		2.0
WALK (SEC.)				7.0				
PEDESTRIAN CLEARANCE (SEC.)				15.0				
RECALL	MAXIMUM (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	MINIMUM (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	PEDESTRIAN (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY (ON/OFF)	N° 1	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	N° 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON-ACTUATED								

WIRING DIAGRAM LEGEND

- (L4) VEHICLE LOOP DETECTOR
- ▣ VEHICLE SIGNAL HEAD
- ▣ VEHICLE SIGNAL HEAD WITH TURN ARROW
- (P) 2/C #4 AWG (POWER)
- (2) 2/C #14 AWG (LEAD-IN CABLE)
- (7) 7/C #14 AWG
- (6 PAIR #19) 6 PAIR #19 INTERCONNECT CABLE
- (PB) PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN SIGNALS
- (P1) PEDESTRIAN SIGNALS
- EXISTING CABLE
- NEW CABLE

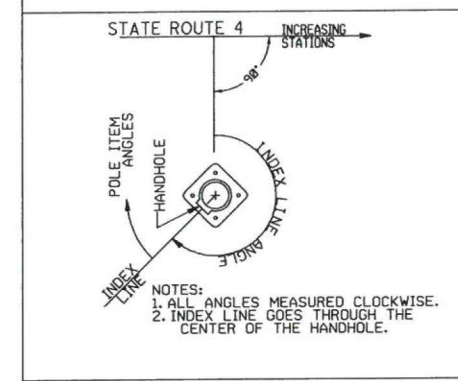
INTERSECTION WIRING SCHEMATIC



REFER TO PHASE DIAGRAM

EX. OR PROP.	LOOP DESIGNATION	SIZE (FT.)	SHAPE	PULSE OR PRESENCE	DELAY (SEC.)	EXTENSION (SEC.)	OVERRIDE PHASE	CONNECT TO DETECTOR UNIT (UNIT-CHANNEL)	ASSOCIATED CONTROLLER PHASE
PROPOSED	D1		EXISTING	PRESENCE	2				5
PROPOSED	D2		EXISTING	PRESENCE	2				8
PROPOSED	D3		EXISTING	PRESENCE	2				1
PROPOSED	D4	6 x 30	RADAR	PRESENCE	2				4
PROPOSED	D5	6 x 30	RADAR	PRESENCE	2				4
PROPOSED	D6	6 x 30	RADAR	PRESENCE	8				4

BASE LINE ORIENTATION



STATION & OFFSET	POLE NUMBER	DESIGN NUMBER	POLE HEIGHT (F <sub>ee</sub> t)	ANGLES (DEG.) FROM INDEX LINE					
				SPAN WIRE ATTACH. HT.	INDEX LINE ANGLE (DEGREES)	PEDESTRIAN SIGNALS	PEDESTRIAN PUSHBUTTONS	CONTROLLER	POWER SERVICE
EXISTING	T1								
EXISTING	T2								
EXISTING	T3				180° 270°	225°			
EXISTING	T4				180° 75°	135°			

ALL ORIENTATIONS INDICATED ASSUMES THE HAND HOLE LOCATION IS AT THE BACK OF THE POLE.

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