

Department of Transportation State of Ohio Permit

Route 29 Office Use Only Jurisdiction MAD County or

Log pt 10.67 Acc Cat

06-0059-19 Permit No. Mr.509

[1] Subject to all terms, conditions, and restrictions printed, written below and on the reverse side hereof, or

manner described and at the location indicated attached to this permit. under Section 5515.01 and 5515.02 of Ohio Revised Code, and permission to perform work necessary in the Name: Duke Const Address: 6640 Riverside Dr suite 320 Dublin, OH, 43017 Is hereby granted a permit

Road Improvements

Location: MAD County, 29 Route: , .05 mi S of I-70

[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.

for final inspection. Contact County Manager 10 days before work begins, also contact County Manager when work is completed

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

County Manager Mark Edwards

Phone 740.833.8120

See Attached Sheet

NOTE: Any work performed by the permittee may be stopped if this requirement is not met (Authorized ODOT Employee)

[4] 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.

[5] 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.

appropriate Department action, up to an including removal of the installation at the permittee's expense. and understands that failure to comply fully with those conditions, terms, and requirements or any change in the suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to [6] The permittee accepts the conditions, terms, and requirements printed, written on, or attached to this permit use of the permit inconsistent with its terms and conditions will be considered a violation and cause for

[7] Performance Bond Required? Yes Yes Z Company:

Effective Date Expiration Date Amount S

[8] This permit shall be void if the work described herein does not comply with the conditions, terms, and requirements applicable to this permit, and if the work is not completed by 8/21/19

Dated this 2/21/19

Director

Rev 3/20/00

(See other side)

http://d06fs005/permits/ViewPermit.aspx?PERMITNUM=06-0059-19&PERMTYPE=&L... 2/21/2019

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

[2] The granting of this permit does not convey to the permittee or to the property serights of way or in the design or operation of the state highway; or in any way abridge Transportation in his jurisdiction over state highways. If, in the process of any future becomes necessary, in the opinion of the Director of Transportation to order the remove the fixtures, or work performed under this permit, said removal, reconstruction, relocities owners thereof or the permitee and be made as directed by the Director of Transportation or operation, necessary for improved safety and operation or for the benefit of the permitee and be made as directed by the Director of Transportation or operation, necessary for improved safety and operation or for the benefit of the permitee and be made as directed by the Director of Transportation or the permitee and be made as directed by the Director of Transportation or the permit of the benefit of the permit of modification since the permit confers no private rights to the permittee over the contro

performance bond or certified check as a prerequisite to the issuance of a permit. [3] The District Deputy Director acts for and on behalf of the Director in issuing and District Deputy Director has full authority to ensure that all provisions of the permit workmanship that do not meet applicable Department standards. The District Deput

revocation, or annulment of the permit thereby rendering the permit illegal and so accepting the permit, the permittee agrees to comply with all conditions, terms, and respermit. If the permittee performs any work contrary to the conditions of the permit Director and, after due notice, fails to correct the problem, the Department of Transport work and the permittee shall reimburse the Department for the costs. [4] Failure on the part of the permittee to comply fully with the provisions and condi

[5] The permittee shall indemnify and hold harmless the State of Ohio, Department of assigns, from any and all loss, liability, damages, litigation costs, and claims for injurcaused by or resulting from any act, omission, event, consequence, or occurrence, 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 satisfat the permittee. No work shall be performed until the permittee has contacted the Department and received instructions. The Department's representative may inspect all wo reserves the right, during the time any or all of the work is being performed, to appoint the interest of the State on the work and any compensation arranged for shall be partment'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 subject to appropriate Departmental action. The permittee may request an extension 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 stand devices. Failure to comply will be cause for revocation or suspension of the permit described in terms of location, duration, time of day, etc. Such work shall not begin until

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

[10] Upon completion, of the work, the permittee shall leave the highway clean of all rand equipment, and all parts of the highway shall be left in a condition acceptable to the the work authorized by the permit, the Department's appointed representative shall con No. MR 678 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 with with the travel over the road.

[12] All pole lines are to be built in accordance with Rule 4901:3-1-08 of Ohio Adminis Public Utilities Commission of Ohio.

[13] The permittee shall comply with the Air Pollution requirements of Rule promulgated and enforced by the Ohio Environmental Protection Agency.

[14] 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 permittee snall in any way alter the permittee's obligations under this permit.

party who may have an interest in the underlying rred any rights, title, or interest in state highway	
work or for the bucket of the traveling public, it val, reconstruction, relocation, or repair of any of ration, or repair shall be wholly at the expense of ansportation. Such changes in the state highway of the traveling public, shall not require a permit old the state highway.	
d carrying out the provisions of all permits. The are met and to reject any materials, design, and ty Director, at his/her discretion, may require a	
tions of the permit will be cause for suspension, subject to appropriate Departmental action. By strictions printed or written on or attached to the it or to the instructions of the District Deputy reation may, with or without notice, correct such	
f Transportation, its officers, representatives and ry or death to any person, property, or business, negligent or otherwise of the permittee, his	
action, and the entire expense shall be borne by siment's appointed representative named on the ork covered by the permit, or the Department an inspector over the work who shall represent aid wholly by the permit holder. Work not in cause. The permittee shall be notified of the	
permit, thereby making the permit illegal and in writing from the District Office, explaining	
lards and requirements regarding traffic control t. Any closure of lanes or shoulders shall be l all traffic control devices are in place. sinage of the highway in any way, such catch	
subbish, excess materials, temporary structures e Department. Upon satisfactory completion of applete the Permit Inspection Certificate, Form	
in the limits of the highway so as to interfere	
trative Code promulgated and enforced by the	
5-17-08 of the Ohio Administrative Code	
ermit shall apply to and be binding upon the	

- (15) The permittee(s) for herselfhimselfthemselves/itself, her/his/their/its personal representatives, and her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does hereby covenant and agree that:
- (I) No person osthe grounds of race, color, narional origin, sex, age, or disability shall be excluded from participation in, be deduced the backs 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 formishing of services thereon, no pason 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 oxpursuant 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 Suit 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, then he State of Ohio, Department of Transportation, shall have the unfertexed right to terminate the lease, license or permit and torc-cuter and repossess the above-described property and hold the same as if said lease, license or permit had never been madion issued.
- (i) In the event that his instrument grants a fee or easement interest and any of the above mondiscrimination 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.

Attached Sheet 06-0059-19

Road Improve as per plans and specifications attached. All disturbed terrain shall be restored to original or better condition. Any disturbed areas shall be seeded per Manual of Construction and Materials Specifications Current Edition. Excess material removed from site. Any damage to underground drainage or other installations shall be repaired by applicant. No trenching within 10 feet from outer edge of pavement. All work requiring men or vehicles on the pavement or shoulders shall comply with all requirements of the Ohio Manual of Uniform Traffic Control Devices. Applicant shall also comply with all applicable provisions on the reverse side if this permit. This is not a substitute for satisfying the rights of any other party that may have an interest in the underlying fee.

Location: MAD County, Route: 29 .05 mi S of I-70

The permittee shall take any and all appropriate measures to limit soil erosion during and after construction authorized herein. As such he shall be fully accountable to the Ohio EPA, the Soil Conservation Service, and other appropriate agencies for any violation or disregard of the applicable governing standards and regulations related to the protection and conservation of soils that are affected by this permitted work.

Extended Condition Information:

Permittee shall make Road Improvements of Widen SR29 for southbound left turn lane and northbound right turn lane onto entrance ramp for eastbound I-70, and new traffic signal.

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.

Bond #30054761 shall be held until work is complete and final inspection is accepted.

Contact County Manager for final inspection when work is completed.

App No

State of Ohio Department of Transportation Permit Application

See Reverse side for additional requirements

[1] This form must be completed by the property owner or agents working for a utility company (if applicable). Application by contractor is unacceptable. 0054-19

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[5] Does the property owner own or have any interests in any adjacent property? from a mile post or from some geographical feature such as an intersecting highway. [4] Location where work is to be performed. Give sufficient detail to locate the site accurately, such as the distance in miles or feet Work to commence on North_East_West_South X of If yes, please describe. Madison County (along, across) State Route and will require Interstate 70 29 on the North miles or 270 feet he North East X West X South Yes 000 × No side of the road.

Traffic Plan

[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.

editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the [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 proper traffic control devices have been provided.

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 [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 removal of the installation at the permittee's expense.

Day time Phone 614 -432-6105	Signature of Property Owner or Agent for Owner Date 9/4/19	Please Type or Print Property Owner or Agent for Owner	MARK GIALLIKA
DATE 2.11.19	RECEIVED 16	PERMITS OFFICI	ODO THE BUT RICT

Rev 7/01/05

SIGN HERE

Additional Requirements

- 1. All requests for vehicular access connections (commercial and residential driveways and field drives) are subject to the requirements and provisions of the State Highway Access Management Manual.
- 2. Check with the issuing authority to determine which of the following documents and information are required and the number of copies needed to complete the review of your application. Plans should usually not be larger than 22"x 34."
- public roads, if any; amount of frontage on state highway and on other abutting (A) Map or plat showing property location, property lines,
- (B) Any existing access or casements of access on the
- a stake or other clearly visible means. location should also be physically marked on the property by (C) Highway and driveway plan profile;
 (D) Location of proposed access with respect to property lines and to the highway; NOTE: The proposed access
- (E) Design and type of construction of the proposed access;(F) Drainage plans showing drive culver/pipe and impacts to the highway right of way;
- (H) Maps and letters detailing utility locations before and after (G) Subdivision, zoning, or development plan, if applicable;
- development in and along the right of way;
 (1) Signing and striping plans;
 (J) Traffic data and traffic control plan;
 (K) Proof of liability insurance;
- (L) Performance Bond, if required

Commercial Development

- development generating high traffic volumes (over 100 trip ends in the peak hour) are advised to request a preliminary meeting with appropriate ODOT and/or local officials prior to submitting a formal application for access. 3. If you are requesting a permit for Commercial Development, complete the following. Applicants seeking permits for
- (3a) If the proposed access will serve residential development, what type (single family, apartment, townhouse) and number of units are in the proposed development?

Type of Units Number of Unit	Type of Units	100	Number of Units	
(3b) If the proposed access will serve business commercial or industrial development, what types and number of businesses are	Type of Units		Number of Units	
in the proposed development and what is floor area square footage of each?	(3b) If the proposed d	ed access will serve business commercial or indu	strial development, w	hat types and number of businesses are

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	in the proposed development and what is floor area square footage of each?	(3b) If the proposed access
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Type of Business

Industrial Warehousing

Square Footage

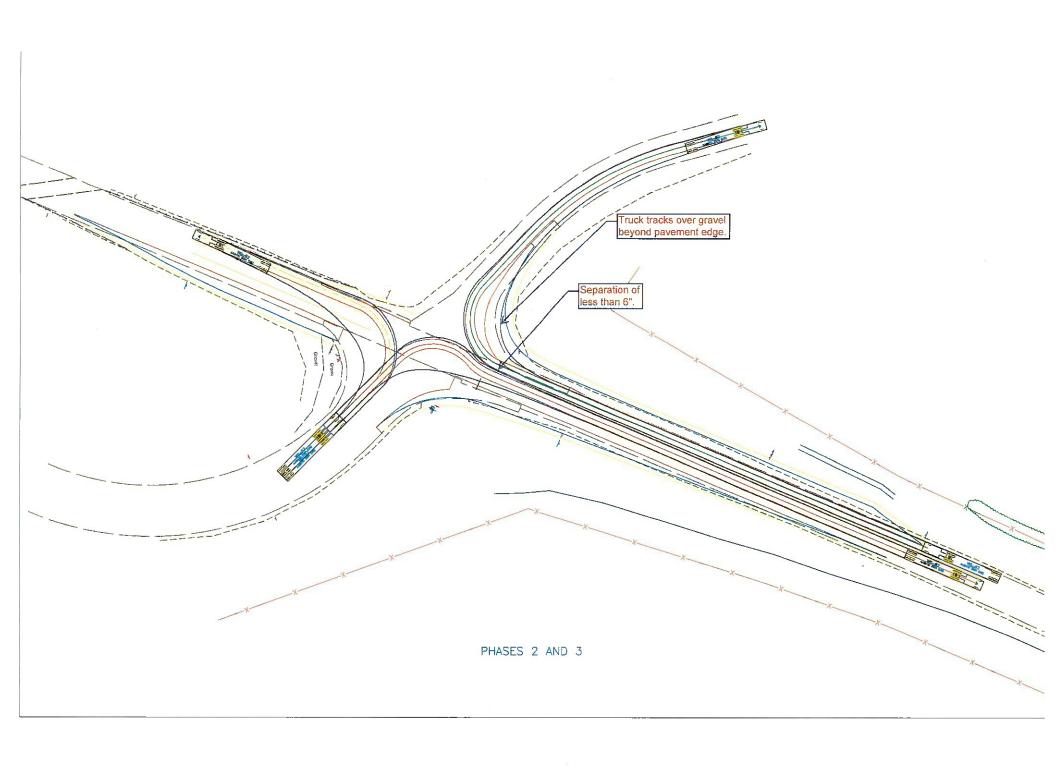
Type of Business			Square Footage		
(3c) Number of vehicles using the access. Indicate if estimates are	using the access. Ir	dicate if estimates	Peak hour =	Peak hour = or Average daily volumes =x	y volumes = _x
Number of Passenger Cars: 3264	Cars: 3264	Number of Multi Units: 246	s: 246	Total All Vehicles: 3510	3510

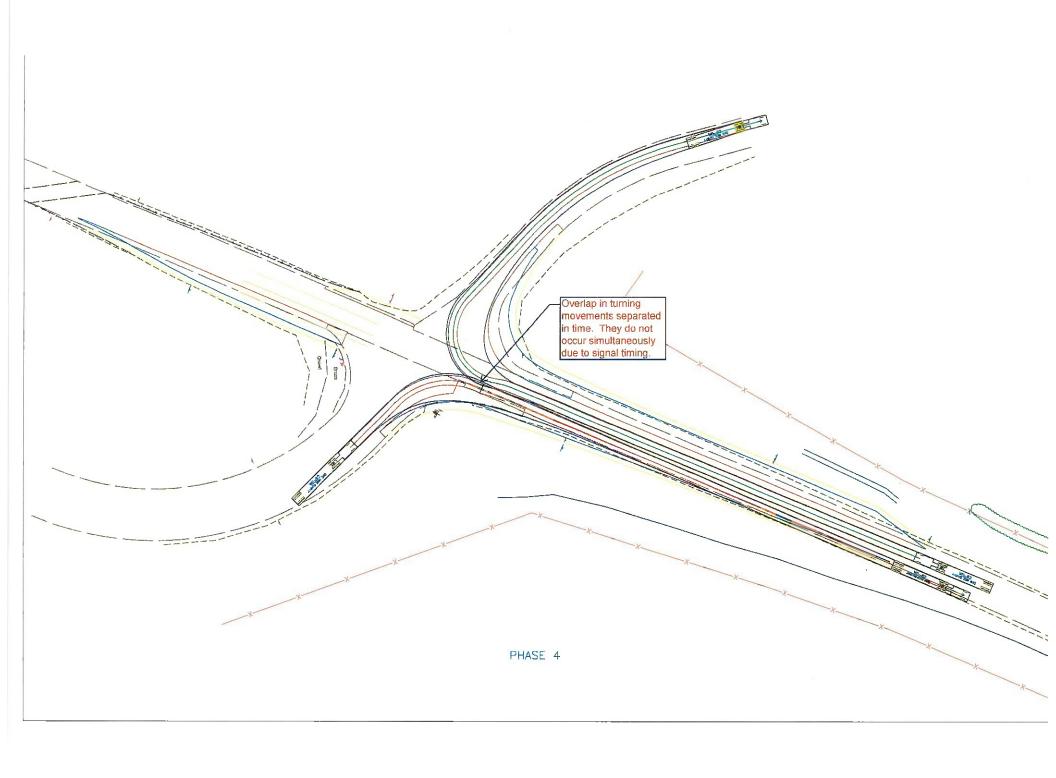
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	(3d) Consulting Firm:	Number of Passenger Cars: 3264	(3c) Number of vehicles using the access. Indicate if estimates are
Perry Morgan 614.485.8355	Stantec	Cars:	s using t
<u>Morgan</u> 5.8355	Stantec Consulting		he access. I
Contact Name:Phone Number:_	Name of (Number of Multi Units: 246	ndicate if estimates
lame:	Name of Contractor:	246	_Peak hour =
		Total All Vehicles: 3510	Peak hour = or Average daily volumes =x
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Number of adults (over 18)	Insurer's Name
under 18 Total people	Address
	Phone





Duerson, Charles

Subject:

Fellenger, Steven 18-app 486 Duke Const

Steve,

We can use the 18-app 486, Duke Const, MAD29, 10.67 as the application number, I'll wait on you to forward approved plans, and then we can issue the permit.

Charles

Charles E. Duerson
Trans Tech 1
Permits
400 E. William St,
Delaware, Oh 43015
(p) 740.833.8244
transportation.ohio.gov

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		Environmental P. C	Geometric Review Pavement Marking/Striping	Pavement Review Signal Review	Utilitles Review Hydraulic Review	Access Management Real Estate Review	APPLICANT DulUS Couls County Manager Review MOT Review
Signature	SIGNATURE PERMIT STAFF	5 Réllosones 2.2/.19					MADESON ROAD SUPPORTED THE DATE

Rev. 7/23/07

T. L	State of Ohio Department of Transportation Permit Inspection Certificate												
Di Lii Off	AccCat	Log Pt	Rte	County or Jurisdiction	fO								
		10.67	29	MAD	Office Use Only								

10 be completed by District Office

			¥	0		
>						Work Authorized
	2/21/19	Date Issued			06-0059-19	[2]Permit No.
		8			614.932.6000	Phone
Address 6640 Riverside Dr suite 320	6640 Riv	Address			Duke Const	[1]Permittee Name

To be completed by Inspector

If no, explain conditions	[4]Is work approved? No V
As authorized? No V If no, explain variation(s)	[3]Was work No v

If work is not approved, advise person in charge at work site, noting his/her name and relationship to permittee and the date and time of the inspection; note any instructions given such person, including work stoppage, if warranted. If no one is present at work site, so note.

Date 10.22.19

Madison Co Admin Mark Edwards

Signed Title

Rev. 12/20/98

40 29 IEFFERSON Jeffersen m KentDitchy

0

LATITUDE: 39.57'30" LOCATION MAP 0

2000 SCALE IN FEET LONGITUDE: 83°20'30'

S.R. 29 3,510 24,670 2,467 50% 7% 55 MPH 55 MPH RURAL COLLECTOR

PORTIONS TO BE IMPROVED....
STATE AND FEDERAL ROUTES...
OTHER ROADS.....

DESIGN DESIGNATIONS

RAMP D 1,300 2,650 265 100% 10% 10% MPH 35 MPH

CURRENT ADT (2018)
DESIGN YEAR (2040)
DESIGN HOURLY VOLUME (2040)
DIRECTIONAL DISTRIBUTION
TRUCKS

RAMP C 3,040 8,070 8,070 100% 15% MPH 35 MPH

SHEET NUMBER

DESIGN EXCEPTIONS

DESIGN FEATURE

APPROVAL DATE

JESIGN SPEED

EGAL SPEED

UNCTIONAL CLASSIFICATION

3, 10-11 21 10 3, 20

Utilities Protection SERVICE

JNDERGROUND UTILITIES CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

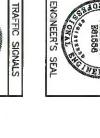
Call Before You Dig

1-23-19 1-23-19 1-23-19 1-23-19

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PLAN PREPARED BY:

GRADED SHOULDER WIDTH
LANE WIDTH
HORIZONITAL ALIGNMENT
SUPERELEVATION RATE



RM-4.2

2.5.19 DATE

ENGINEER'S SEAL

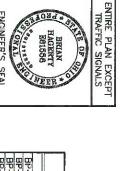
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2.5-19

DATE



OIL & CAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-929-0988

Stantec Consulting Services Inc. 1500 Lake Share Drive, Sulle 100 Columbus, Otib 42014 (814) 488-4333

Stantec

7-20-18 MT-95.45 10-18-13 MT-97.11 10-18-13 MT-101.70 10-18-13 MT-101.75 10-18-13 MT-101.90

S.R. 29 IMPROVEMENTS AT DEPARTMENT OF TRANSPORTATION STATE OF OHIO

/ILLAGE OF WEST JEFFERSON JEFFERSON TOWNSHIP MADISON COUNTY

-70 EASTBOUND RAMPS

2016

SPECIFICATIONS

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

PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA:

THIS F LANES SIGNAL

PRO,

JECT DESCRIPTION

INDEX OF SHEETS

TITLE SHEET
SCHEMATIC PLAN AND REFERENCE POINTS
TYPICAL SECTIONS
GENERAL NOTES
MAINTENANCE OF TRAFFIC
GENERAL SUMMARY
PROJECT SITE PLAN
PLAN AND PROFILE — S.R. 29
CROSS SECTIONS — S.R. 29
CROSS SECTIONS — RAMP C
PAVEMENT DETAILS
TRAFFIC CONTROL
TRAFFIC CONTROL

1 2 2 3 4-5 6-7 8 8 9 10-11 12-17 18-19 20 21 22-29

BENCHMARKS

BM #205

IRON PIN SET WITH "STANTEC" CAP, BEING 30.43 FEET RIGHT OF S.R. CENTERLINE STATION 580+38.20.

NORTH = 713973.09, EAST = 1733368.62 29

ELEVATION= 970.28 (NAVD 유 88)

BM #206

IRON PIN SET WITH "STANTEC" CAP, BEING 21.25 FEET LEFT CENTERLINE STATION 575+03.27.

NORTH = 714260.46, EAST = 1732914.20 ELEVATION= 973.73 (NAVD 88)

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

VILLAGE ENGINEER, WEST JEFFERSON

VILLAGE SERVICE DIRECTOR, WEST JEFFERSON

DATE

S.R. 29 IMPROVEMENTS AT

DATE

I-70 EASTBOUND RAMPS

RAILROAD INVOLVEMENT N/A

SR 29

ELEVATION= 999.24 (NAVD 88) 유 CONSTRUCTION PROJECT NO.

N/A

MADISON COUNTY ENGINEER MONUMENT 02-016, BRASS TABLET IN MONUMENT IN THE MEDIAN LANDSCAPING AT THE NORTHEAST CORNER THE MADISON COUNTY ENGINEER'S OFFICE.

NORTH = 712047.38, EAST = 1722575.80,

SOURCE BENCHMARK

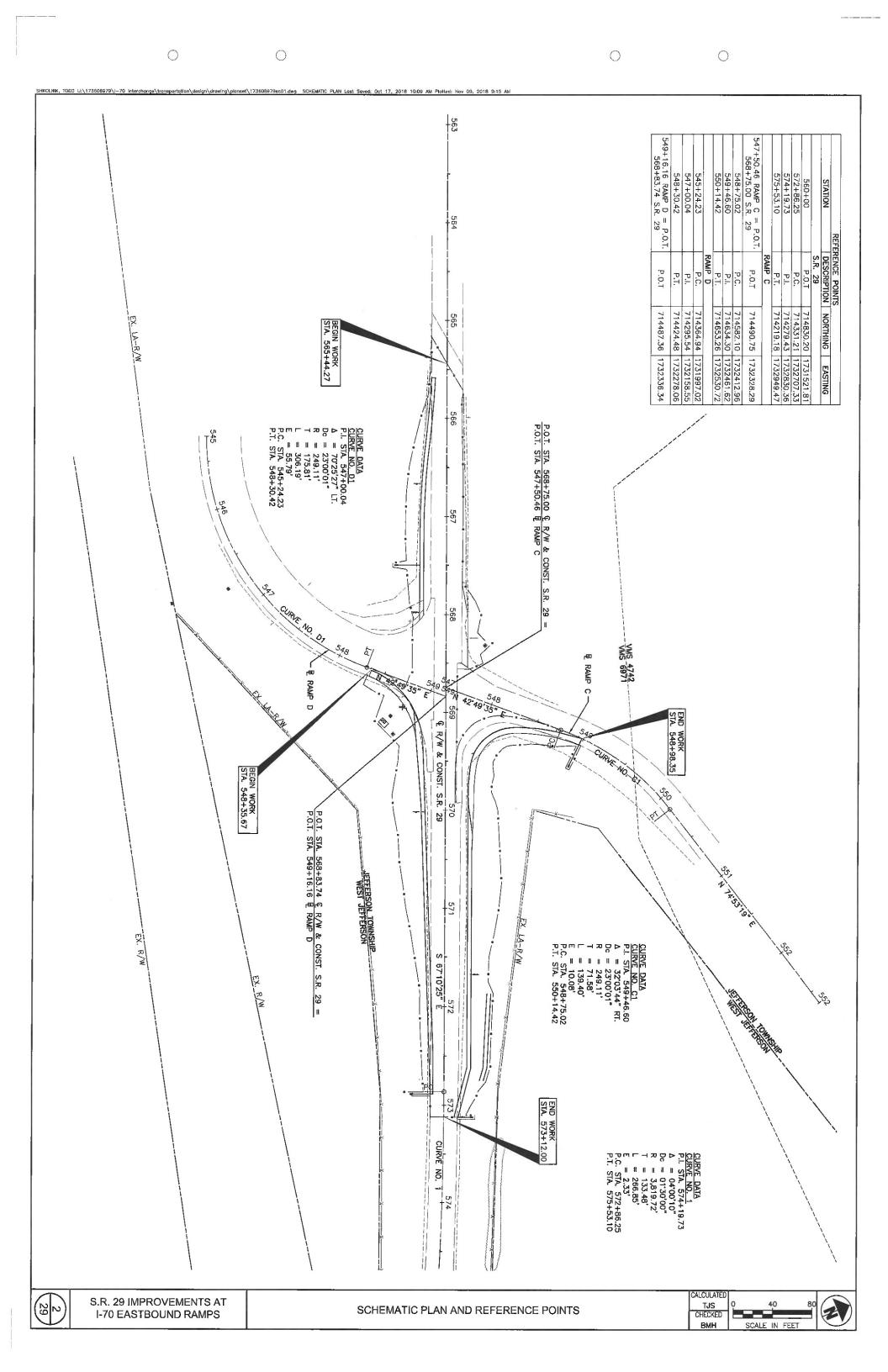
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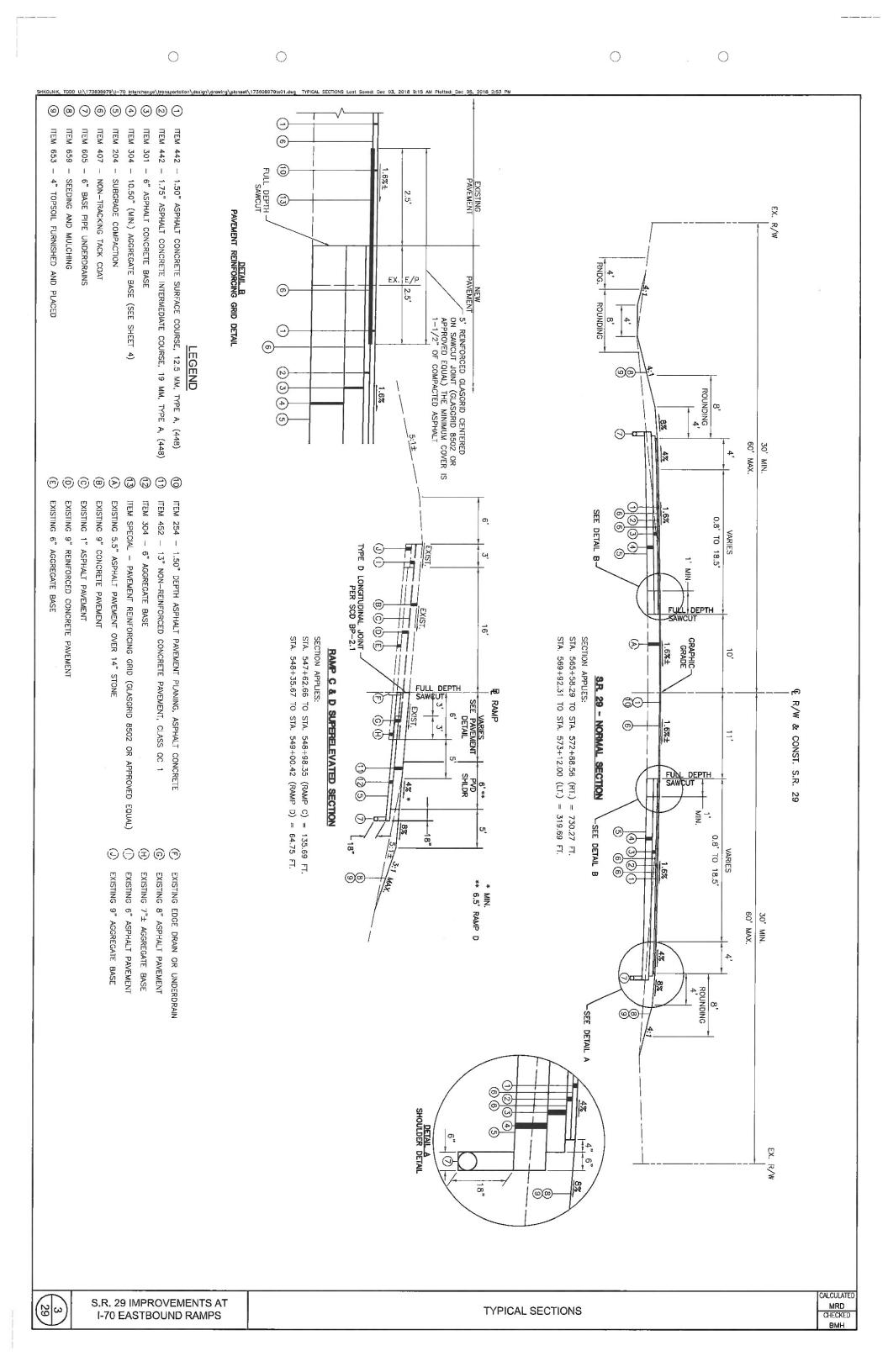
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PROJECT CONSISTS OF THE WIDENING OF S.R. 29 TO PROVIDE TURN 8 AT THE EASTBOUND RAMPS OF \vdash 70, INCLUDING A NEW TRAFFIC FEDERAL PROJECT NO.

N/A

0.87 ACRES 0.17 ACRES N/A ACRES





ROUNDING

THE ROUNDING AT CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN THE TYPICAL SECTIONS APPLIES

UTILITIES

ISTED BELOW ARE ALL UTILITIES LOCATED WITHIN TOGETHER WITH THEIR RESPECTIVE OWNERS: OHIO EDISON
420 YORK STREET
SPRINGFIELD, OHIO 6
937-327-1272
NAT BENOY 末 PROJECT CONSTRUCTION

111 NORTH FOURTH STREET ROOM 802 COLUMBUS, OHIO 43215 614-223-5872 MIKE LEPLEY tl9569@att.com

nbenoy@firstenergycorp.com

45505

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COLUMBIA GAS
3550 JOHNNY APPLESEED C
COLUMBUS, OHIO 43231
614—818—2109
CLAY KOENIG VILLAGE OF WEST JEFFERSON DIRECTOR, PUBLIC SERVICE 28 EAST MAIN STREET WEST JEFFERSON, OHIO 43162 614-879-8655 JOHN MITCHELL

POWER 8 (AEP)

COLUMBUS & SOUTHERN OHIO P 700 MORRISON ROAD GAHANNA, OHIO 43230 614-883-6831 PAUL PAXTON

0

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

S

OBTAINED

CONTINGENCY QUANTITIES

CONSTRUCTION NOISE

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, OPERATE POWER-OPERATED CONSTRUCTION—TYPE DEVICES IN COMPLIANCE WITH ALL APPLICABLE LOCAL ORDINANCES AND REGULATIONS PERTAINING TO CONSTRUCTION NOISE. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY 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.

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 DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

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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.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAN 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.

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

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CLEARING AND GRUBBING

jmitchell@westjeffersonohio.gov

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.

204, SUBGRADE COMPACTION AND PROOF ROLLING

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CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:
1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION

2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

3. COMPACT THE SUBGRADE ACCORDING TO 204.03.

4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.
5. EXCAVATE JUSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.

6. PROOF ROLL THE STABILIZED AREAS ACCORDING ō 204.06 징 VERIFY

7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND ARE BOTH PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE. UNSTABLE SUBGRADE

ITEM 204, PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED REQUIRING PROOF ROLLING: Z 井 GENERAL SUMMARY 7 ADDRESS LOCATIONS

ITEM 204, PROOF ROLLING

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TEM SPECIAL, SOIL STERIE Ž

USE ONE OF THE SOIL STERILANT PRODUCTS LISTED BELOW, OR AN APPROVED EQUAL APPLY THE SOIL STERILANT TO LOCATIONS ONLY WHERE IN-ROAD VEGETATION EXISTS AS DETERMINED BY THE ENGINEER. THIS SHOULD BE DONE IMMEDIATELY PRIOR TO PLACING THE PROPOSED AGGREGATE BASE.

PRAMITOL 25E GIBA SPECIALTY CHEMICALS MCINTOSH, ALABAMA 36553

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ROUNDUP PRO L MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167

HYVAR XL DUPONT CORPORATION 1007 MARKET STREET WILMINGTON, DELAWARE 19898

COMPACT THE SITE FOLLOWING PLOWING OR DISKING. APPLY THE SOIL STERILANT AT THE

SUGGESTED MANUFACTURER R'S RATE.

THE PREFERRED TIME FRAME TO APPLY THE SOIL STERILANT IS BETWEEN JUNE 15 AND OCTOBER 15. VERY DRY SOIL CONDITIONS MAY RESULT IN POOR WEED CONTROL. DO NO APPLY THE SOIL STERILANT TO SOIL OR BALLAST MATERIAL WHICH IS SATURATED WITH WATER. CONSULT THE MANUFACTURER IN REGARD TO THE HANDLING AND PHYSICAL CHEMICAL HAZARDS ASSOCIATED WITH THE SOIL STERILANT. NOT

PAYMENT FOR THE ABOVE R OF ITEM SPECIAL, SOIL STEE THE GENERAL SUMMARY TO REFERENCED ITEM IS INCLUDED IN THE PRICE PER SQUARE ERILANT. A QUANTITY OF 1,000 SQUARE YARDS IS INCLUDED DE USED AS DETERMINED BY THE ENGINEER. N YARD

EACH SUCCESSFUL BIDDER A AGRICULTURE AS A COMMERA AGRICULTURE AS A COMMERCIAL SPRAYING OF HERBID APPROPRIATE SPRAY CATEGO PRIOR TO COMMENCING WOR DER MUST BE LICENSED BY THE STATE OF OHIO DEPARTMENT OF MARENCIAL APPLICATOR. IN ADDITION, ALL PERSONS INVOLVED IN THE HERBICIDE MILL BE LICENSED AS COMMERCIAL OPERATORS IN THE VIECDRY. SUBMIT APPROPRIATE LICENSES TO THE PROJECT ENGINEER, WORK, FOR VERIFICATION.

SEEDING AND MULCHING

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

ITEM 653, TOPSOIL FURNISHED AND ITEM 659, COMMERCIAL FERTILIZER ITEM 659, LIME ITEM 659, WATER PLACED 242 CU. YD. 0.30 TON 0.10 ACRE 12 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.

TEM 304, AGGREGATE BASE

THE CONTRACTOR IS TO ENSURE THAT THE SUBGRADE ELEVATION OF THE WIDENING IS AT OR BELOW THE ELEVATION OF THE EXISTING SUBGRADE. AS DIRECTED BY THE ENGINEER, ADDITIONAL (TEM 304, AGGREGATE BASE SHALL BE PLACED BELOW THAT SHOWN ON THE TYPICAL SECTIONS. ADDITIONAL QUANTITIES OF TIEM 203, EXCAVATION AND ITEM 304, AGGREGATE BASE REQUIRED TO MEET THIS CONDITION SHALL BE PAID AT THE CONTRACT BID PRICE.

TEM SPECIAL, PAVEMENT REINFORCING GRID (GLASGRID 8502 OR APPROVED EQUAL)

SHOULD THE SAWCUT SHOWN ON THE PLANS (A RECOMMENDED 1 FOOT FROM THE EXISTING STRIPE) NOT EXPOSE FULL-DEPTH EXISTING PAVEMENT, THE CONTRACTOR ADJUST THE OFFSET FROM THE EXISTING STRIPE UNTIL SUCH PAVEMENT IS FOUND. ADDITIONAL PAVEMENT QUANTITIES SHALL BE PAID AT THE CONTRACT BID PRICE. SHALL

PAVEMENT REINFORCEMENT A LOCATION. THE FOLLOWING Q DIRECTED BY THE ENGINEER: AS DETAILED ON SHEET 3 SHALL BE USED AT THE SAWCUT QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR USE Š

SPECIAL PAVEMENT REINFORCING GRID (GLASGRID 8502 OR APPROVED EQUAL)

THE WHEEL PATH IS DEFINED EACH LANE. ð THE AREA BETWEEN 40 AND **62 INCHES FROM THE** 760 SQ. ğ

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S.R. 29 IMPROVEMENTS AT I-70 EASTBOUND RAMPS

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ENCOUNTERED DURING CONSTRUCTION. ALL EXISTING UNDERDRAINS 윘 AGGREGATE DRAINS

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PROVIDE AN OUTLET PER STANDARD CONSTRUCTION UNDERDRAINS THAT OUTLET TO A SLOPE. DRAWING

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.

공류 FOLLOWING ESTIMATED QUANTITIES HAVE THE WORK NOTED ABOVE: BEEN INCLUDED JHT N GENERAL ð

SUMMARY

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ITEM 601, TIED CONCRETE BLOCK MAT, TYPE 1
ITEM 611, 6" CONDUIT, TYPE F
ITEM 611, PRECAST REINFORCED CONCRETE OUTLET

4 SQ. Y 40 FT. 2 EACH

IF UNSUITABLE FOUNDATION SOILS ARE ENCOUNTERED IN THE AREAS OF THE PROPOSED ROADBED, THEY SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL MEETING THE REQUIREMENTS OF 203.02.R. THE LOCATIONS AND DIMENSIONS WILL BE AS DETERMINED BY THE ENGINEER. UNSUITABLE FOUNDATION SOILS

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딜丼 E FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED BE USED AS DIRECTED BY THE ENGINEER: Ë THE GENERAL SUMMARY

203, EMBANKMENT
203, EXCAVATION
203, GRANULAR MATERIAL, TYPE B
SPECIAL, GEOTEXTILE FABRIC, 712.09, TYPE

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Mal 621, RAISED PAVEMENT MARKER REMOVED

IN AREAS WHERE THE RAISED PAVEMENT MARKER CASTINGS CANNOT BE REPLACED BECAUSE OF PAVEMENT CONDITIONS, USE THIS ITEM INSTEAD OF ITEM 621 RPM, INSTALLATION ONLY TO COMPENSATE THE CONTRACTOR FOR REMOVAL OF THE EXISTING RPM AND RESTORATION OF THE PAVEMENT.

ALL BROKEN, CRACKED, FRAGMENTED OR PARTIAL REMNANTS OF RAISED PAVEMENT MARKERS OR MISSING RAISED PAVEMENT MARKERS SHALL BE TOTALLY REMOVED AND PAVEMENT RESTORED AS DESCRIBED IN CONSTRUCTION AND MATERIAL SPECIFICATION 621.08. 팔

QUANTITY 70 쯈 USED Å DIRECTED 개 사용 ENGINEER

FOLLOWING IS AN ESTIMATED THE ABOVE WORK:

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

IDENTIFICATION OF SUCH TREES IS TO BE PERFORMED BY A CONSULTANT THAT HAS BEEN PRE-QUALIFIED BY ODOT FOR DOING ECOLOGICAL SURVEYS. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING THE SERVICES OF AN ECOLOGICAL CONSULTANT, THE CURRENT LIST OF PRE-QUALIFIED CONSULTANTS IS AVAILABLE THROUGH THE ODOT CONSULTANT SERVICES SECTION (614-466-3742) OR THROUGH ODOT'S INTERNET SITE AT http://www.dot.state.oh.us.

ALL WORK AND COSTS ASSOCIATED INCLUDED IN THE CONTRACT LUMP OF BAT HABITAT TREES. MUS THE COMPLIANCE OF BID PRICE FOR ITEM THIS NOTE SHALL BE SPECIAL, MISC.: IDENTIFICATION

CONCRETE PAVEMENT JOINTS

JOINTS IN NEW CONCRETE PAVEMENT SHALL MATCH THE TYPE AND LOCATION OF EXISTING CONCRETE JOINTS AND SHALL CONFORM TO THE APPLICABLE BP SERIES STANDARD CONSTRUCTION DRAWINGS AS NOTED ON THE TITLE SHEET. FINAL PLACEMENT OF THE JOINTS SHALL BE AT THE DISCRETION OF THE ENGINEER.

				10-11		10			10-11			õ			SHEET NO.		
TOTALS CARRIED TO GENERAL SUMMARY		573+12.00	572+00.00 - 573+12.00	548+98.35 (C) - 572+00.00	548+98.35	548+20.14 (C) - 548+98.35 (C)		548+90.20 (D) - 572+88.56(SR 29)	548+35.93 (D) - 548+90.20 (D)		567+50 - 568+00.56	565+58.29 - 567+50	S.R. 29		STATION TO STATION		
		F	Ţ.	RT/LT	RT.	RT.	RT.	RT.	RT.	RT.	RT.	RT.			SIDE		
84		13			30		18			23				귀	6" CONDUIT, TYPE F		
573				300		<u>8</u>						192		크	6" BASE PIPE UNDERDRAINS		
616			114					392	60		50			Ę	6" UNCLASSIFIED PIPE (UNDERDRAINS		
4					_		_							EACH	PRECAST REINFORCED CONCRETE OUTLET		
00		2			2		2			2				TIED CONCRETE BLOC MAT, TYPE 1			
		975.16	975.97	983.70	982.00	983.70	973.95	984.56	985.54	987.89	987,89	990.92		BEGIN ELEVATION			
		975.09	975.16	975.97	981.50	982.00	973.75	973.95	984.56	987.50	988.14	987.89		END ELEVATION			
		OUTLET INTO DITCH	90° BEND		OUTLET INTO DITCH	90° BEND	90" BEND. OUTLET INTO DITCH	22.5' BEND	MEET EXISTING. ELEV. UNKNOWN SEE MAD-70-8.68 SH. 55/142	OUTLET INTO DITCH	CONNECT TO TEE	TEE			NOTES		
						_		-					0		BENDS & BRANCHES		

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ITEM 621, RAISED PAVEMENT MARKER REMOVED 5

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S.R. 29 IMPROVEMENTS AT I-70 EASTBOUND RAMPS

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SEQUENCE 유 CONSTRUCTION

APPLY WORK ZONE MARKINGS, INSTALL TRAFFIC SIGNAL AND COVER HEADS. TRAFFIC TO MAINTAINED PER STANDARD CONSTRUCTION DRAWING MT-97.11. PHASES 2 & 3

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PERFORM CONSTRUCTION OPERATION FROM STA. 565+58.29 TO STA. 568+00.56 RT. (PHASE 2) AND FROM STA. 548+35.67 RAMP D TO STA. 572+88.56 RT. S.R. 29. (PHASE 3) CONSTRUCT TO TOP OF TRAFFIC COURSE. ERECT AND MAINTAIN ALL MAINTENANCE OF TRAFFIC SIGNS, BARRIER AND TRAFFIC SHIFTS TO PERFORM CONSTRUCTION PER STD. DWG. MT-95.45, S.R. 29 SOUTHBOUND MOT TYPICAL SECTION, AND RAMP "D" MOT TYPICAL SECTION.

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PERFORM CONSTRUCTION OPERATIONS FROM STA. 567+69.70 TO STA. 568+49.69 (T. AND STA. 548+98.35 RAMP C TO STA. 573+12.00 LT. S.R. 29. CONSTRUCT TO TOP OF INTERMEDIATE COURSE. ERECT AND MAINTAIN ALL MAINTENANCE OF TRAFFIC SIGNS, BARRIER AND TRAFFIC SHIFTS TO PERFORM CONSTRUCTION PER STD. DWG. MT-95.45, S.R. 29 NORTHBOUND MOT TYPICAL SECTION, AND RAMP "C" MOT TYPICAL SECTION. , BARRIER 29

ALTERNATE METHODS

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PHASE 5

MILL EXISTING SURFACE COURSE ON S.R. 29. CONSTRUCT SURFACE COURSE, INSTALL PERMANENT SIGNAGE, MARKINGS AND ANY INCIDENTALS NECESSARY TO COMPLETE CONSTRUCTION, UNCOVER SIGNAL HEADS AND OPEN TO TRAFFIC TO BE MAINTAINED PER STD. DWG. MT-97.11.

THE CONTRACTOR MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE ENGINEER.

ITEM 614, MAINTAINING TRAFFIC, AS PER PAN

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS: A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL TIMES ON S.R. 29 BY USE OF THE EXISTING PAVEMENT AND THE BE MAINTAINED AT ALL COMPLETED PAVEMENT. BE OPEN TO TRAFFIC

CHRISTMAS NEW YEARS MEMORIAL DAY FOURTH OF JULY

LABOR DAY THANKSGWING VILLAGE OX ROAST (LABOR DAY WEEKEND) FARM SCIENCE REVIEW (SEPT. 17-SEPT. 1 19)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT TIME ALL LANES MUST BE OPEN SUNDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY 12:00N FRIDAY THROUGH 6:00 AM WEDNESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY 12:00N TUESDAY THROUGH 6:00 AM FRIDAY 12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY 12:00N WEDNESDAY THROUGH 6:00 AM MONDAY FRIDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY	SATURDAY
	12:00N THURSDAY THROUGH 6:00 AM MONDAY	FRIDAY
	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY	THURSDAY
	12:00N TUESDAY THROUGH 6:00 AM THURSDAY	WEDNESDAY
	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY	TUESDAY
	12:00N FRIDAY THROUGH 6:00 AM TUESDAY	MONDAY
	12:00N FRIDAY THROUGH 6:00 AM MONDAY	SUNDAY
	TIME ALL LANES MUST BE OPEN	DAY OF HOLIDAY OR EVENT

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SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, TIS SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$100 FOR EACH ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED. THE CONTRACTOR

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.

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INGRESS & EGRESS FOR ALL DRIVES AND PARKING AREAS SHALL BE MAINTAINED AS PER ODOT C&MS 614.02(A). AREAS WITH MULTIPLE DRIVES SHALL HAVE AT LEAST HALF OF THE DRIVES OPEN AT ALL TIMES. NOTIFICATION SHALL BE GIVEN TO ADJOINING PROPERTIES A MINIMUM OF TWO BUSINESS DAYS IN ADVANCE OF ACCESS INTERRUPTIONS.

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 OMUTCD. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS (INCLUDING 0.58 MILE WORK ZONE CENTER LINE, 1.16 MILE WORK ZONE EDGE LINE, AND 122 FEET WORK ZONE STOP LINE) SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, AS PER PLAN, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

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COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WORK WITH OTHER ODOT PROJECTS IN THE AREA. IT IS IMPERATIVE THAT THE CONTRACTORS COOPERATE FULLY WITH EACH OTHER AS OUTLINED IN SECTION 105.08 OF ODOT 2016 CONSTRUCTION AND MATERIAL SPECIFICATIONS. ALL MAINTENANCE OF TRAFFIC SHALL BE COORDINATED BETWEEN PROJECTS AND NOT BE IN CONFLICT WITH ONE ANOTHER.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE—WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

TRENCH FOR WIDENING

THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL 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 SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER. SHALL AND

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY THE ENGINEER. THE FOLLOWING CONTINGENCY CONTROL PURPOSES: WATER FOR DUST CONTROL AS DIRECTED QUANTITY HAS BEEN INCLUDED FOR DUST

ITEM 616, WATER ኟ

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER,

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL AND CONCRETE PERMANENT BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS. S

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPHINCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS AND SPACED PER TRAFFIC SCD MT— 101.70. APPROXIMATELY 34
NELS SHALL BE INSTALLED

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT FOR 614, MAINTAINING TRAFFIC, AS PER PLAN, AND SHALL BE FULL COMPENSATION ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEMS. TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS, THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS, UNIDIRECTIONAL

RAMP "C"

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE STANDARDS APPROVED PRODUCTS WEB PAGE. FROM THE ROADWAY

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN SCD MT-101.75 IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

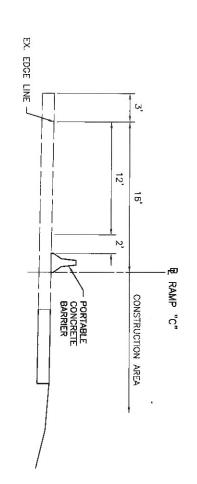
THE CONTRACTOR SHALL DAMAGING IMPACT. REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A

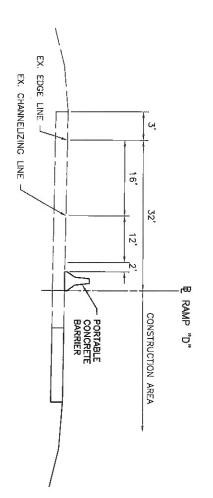
WHEN BIDIRECTIONAL DESIGNS ARE APPROPRIATE TRANSITIONS. SPECIFIED, THE CONTRACTOR SHALL

WHEN GATING IMPACT ATTENUATORS ARE DOCUMENTATION TO THE ENGINEER FOR DESIRED, TH ACCEPTANCE. CONTRACTOR SHALL SUBMIT

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, AS PER PLAN, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

CONSTRUCTION N, Ŋ AREA YORK ZONE EX. CENTER LINE ÄÄ TRAFFIC ō, EX. CENTER LINE S.R. 29 — SOUTHBOUND S.R. 29 -11 H B TRAFFIC ą 8 TRAFFIC NORTHBOUND R/W & CONST. S.R. 88 WORK ZONE CENTER LINE TRAFFIC 0 SAWÇUT ZONE PORTABLE CONCRETE BARRIER 29 2, LINE





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CONSTRUCTION AREA

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& CONST. S.R.

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ITEM 614, LAW ENFORCEMENT OFFICER CONSTRUCTION OPERATIONS HTIM PATROL S ş ASSISTANCE DURING

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

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, 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.

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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 C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER.

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 AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). (FOR THE

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IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

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

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. THE LEO SHALL REPORT 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 AN HOURLY BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

THE HOURS PAID SHALL INCLUDE ANY ENFORCEMENT AGENCY INVOLVED. ITEM 614, LAW ENFORCEMENT OFFICER MINIMUM WITH PATROL SHOW-UP CAR FOR TIME ASSISTANCE REQUIRED BY THE LAW 60 HOURS

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR CITOBTAIN THE SERVICES OF AN LEO ARE INCLUDE LAW ENFORCEMENT OFFICER WITH PATROL CAR OTHERWISE) INCURRED BY LUDED WITH THE BID UNIT I CONTRACTOR

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614,

FLAT SHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER, REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED BUT GOOD CONDITION SUBJECT TO APPROVAL BY THE

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSA REPLACEMENT HARDWARE, SUPPORTS, ETC. NECESSARY

AN ESTIMATED QUANTITY OF 2 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT, ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED TRAFFIC, UNLESS SEPARATELY ITEMIZED. N THE LUMP MUS 80 FOR

TEM 614, REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER, REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

COVERING OF SIGNS

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WHERE THE PLANS CALL FOR A PERMANENT SIGN TO BE COVERED, THE CONTRACTOR SHALL DO SO IN SUCH A MANNER AS TO AVOID DAMAGING THE PERMANENT SIGN WHEN THE COVER IS REMOVED. THE COVER SHALL BE TOTALLY OPAQUE, THE USE OF ADHESIVE TAPE APPLIED DIRECTLY TO A SIGN FACE IS STRICTLY PROHIBITED.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC. INCLUDED Z

NOTIFICATION OF CONSTRUCTION INITIATION

AT LEAST FOURTEEN DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT DO6—PIO®DOT.OHIO.US AND THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT DOB MOT®DOTO.HIOLUS OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR, WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE. AND/OR CHANGES

ADDITIONALLY, THE VILLAGE OF WEST JEFFERSON SHALL BE NOTIFIED A MINIMUM OF FOURTEEN (14) WORKING DAYS PRIOR TO STARTING WORK AND/OR PRIOR TO EACH FOR MAJOR CHANGE IN TRAFFIC PATTERNS, EITHER PERMANENT OR TEMPORARY WITHIN ROADWAY RIGHT-OF-WAY. PHASE

AND NOTIFICATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE DISTRICT 6 PUBLIC INFORMATION OFFICE AT 740-833-8260 TO COORDINATE EFFORTS TO NOTIFY ADJACENT RESIDENTS AND BUSINESSES OF THE UPCOMING RESURFACING PROJECT. ADVANCE NOTIFICATION SHALL OCCUR NO LATER THAN FOURTEEN (14) DAYS PRIOR TO THE FIRST DAY OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE DISTRICT 6 PUBLIC INFORMATION OFFICE AT 740-833-8250 TO COORDINATE EFFORTS TO NOTIFY ALL LOCAL COUNTY, STATE AND FEDERAL EMERGENCY SERVICES, SCHOOL DISTRICTS AND ADJACENT RESIDENTS AND BUSINESSES OF THE UPCOMING CLOSURE, ADVANCE NOTIFICATION SHALL OCCUR NO LATER THAN FOURTEEN (14) DAYS PRIOR TO CLOSING THE ROAD. IF, SUBSEQUENT TO THE ADVANCE NOTIFICATION, THE STATE DATE IS CHANCED, THEN A NEW SEVEN (7) DAY NOTIFICATION WILL BE REQUIRED. THE ROAD CANNOT BE CLOSED UNLESS PRIOR NOTIFICATION HAS BEEN ACCOMPLISHED. THE SAME PARTIES SHALL BE NOTIFIED WHEN THE CLOSURE HAS CONCLUDED AND THE ROAD IS BACK OPEN TO TRAFFIC.

AGENCIES SERVICES AND BE NOTIFIED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING EMERGENCY SCHOOL FACILITIES:

JEFFERSON LOCAL SCHOOL DISTRICT 906 WEST MAIN STREET WEST JEFFERSON, OHIO 43162 614-879-7654 SUPERINTENDENT WILLIAM MULLETT

DISTRICT

JEFFERSON TOWNSHIP FIRE DEPARTMENT 745 WEST MAIN STREET WEST JEFFERSON, OHIO 43162 614-879-8265

WEST JEFFERSON VILLAGE POLICE DEPARTMENT 28 EAST MAIN STREET WEST JEFFERSON, OHIO 43162 614-879-7672 CHIEF RICK HARDY

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (hauling.permits@dot.ohio.gov) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PID). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

LANE CLOSURES CLOSURES & RESTRICTIONS RAMP ROAD CLOSURES TRAFFIC PATTERN CHANGES ጵ OF CONSTRUCTION DURATION OF >=2 WEEKS >12 HOURS <12 HOURS >=2 WEEKS <2 WEEKS 유 & <2 WEEKS CLOSURE NOTIFICATION TIME TABLE 4 CALENDAR DAYS PRIOR TO IMPLEMENTATION NOTICE DUE TO PERMITS & PIO 21 CALENDAR DAYS PRIOR TO CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE 4 BUSINESS DAYS PRIOR TO CLOSURE 5 7 BUSINESS DAYS PRIOR TO CLOSURE CALENDAR DAYS PRIOR TO CLOSURE

ANY UNFORESEEN CONDITION RESTRICTIONS SHALL ALSO I OFFICE OF COMMUNICATIONS INS NOT SPECIFIED IN THE PLANS REQUIRING BE REPORTED TO THE PROJECT ENGINEER US S TIME TABLE. USING TRAFFIC USING THE NOTICE 징

SCIENCE REVIEW

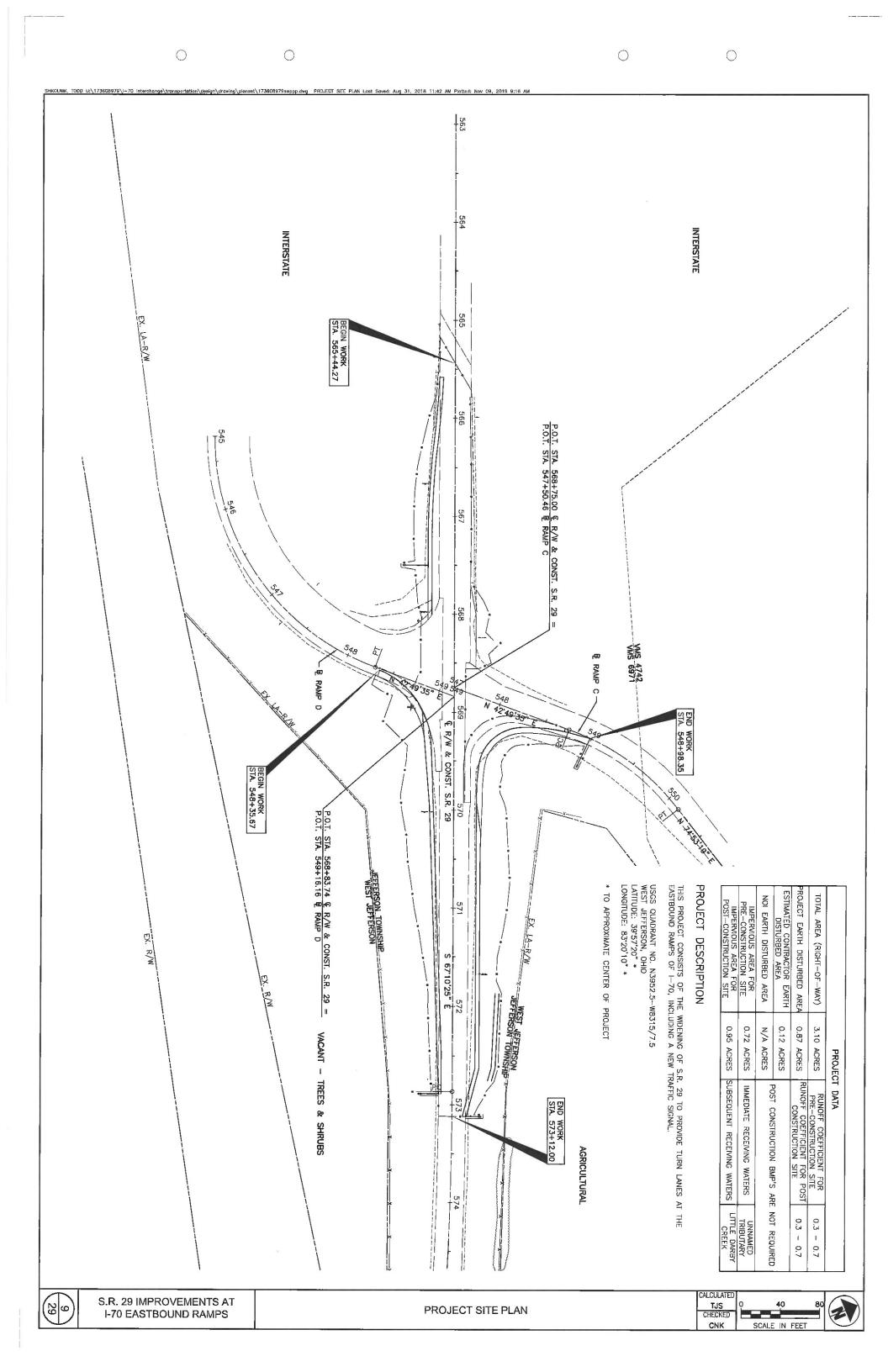
SAM-10PM DAILY ON THE 29 BETWEEN SR 54 9 BETWEEN 1-70 JRES ARE NOT PERMITTED DURING FOLLOWING ROUTES:
ARK COUNTY) AND SR 142
SR 187 표 FARM SCIENCE REVIEW

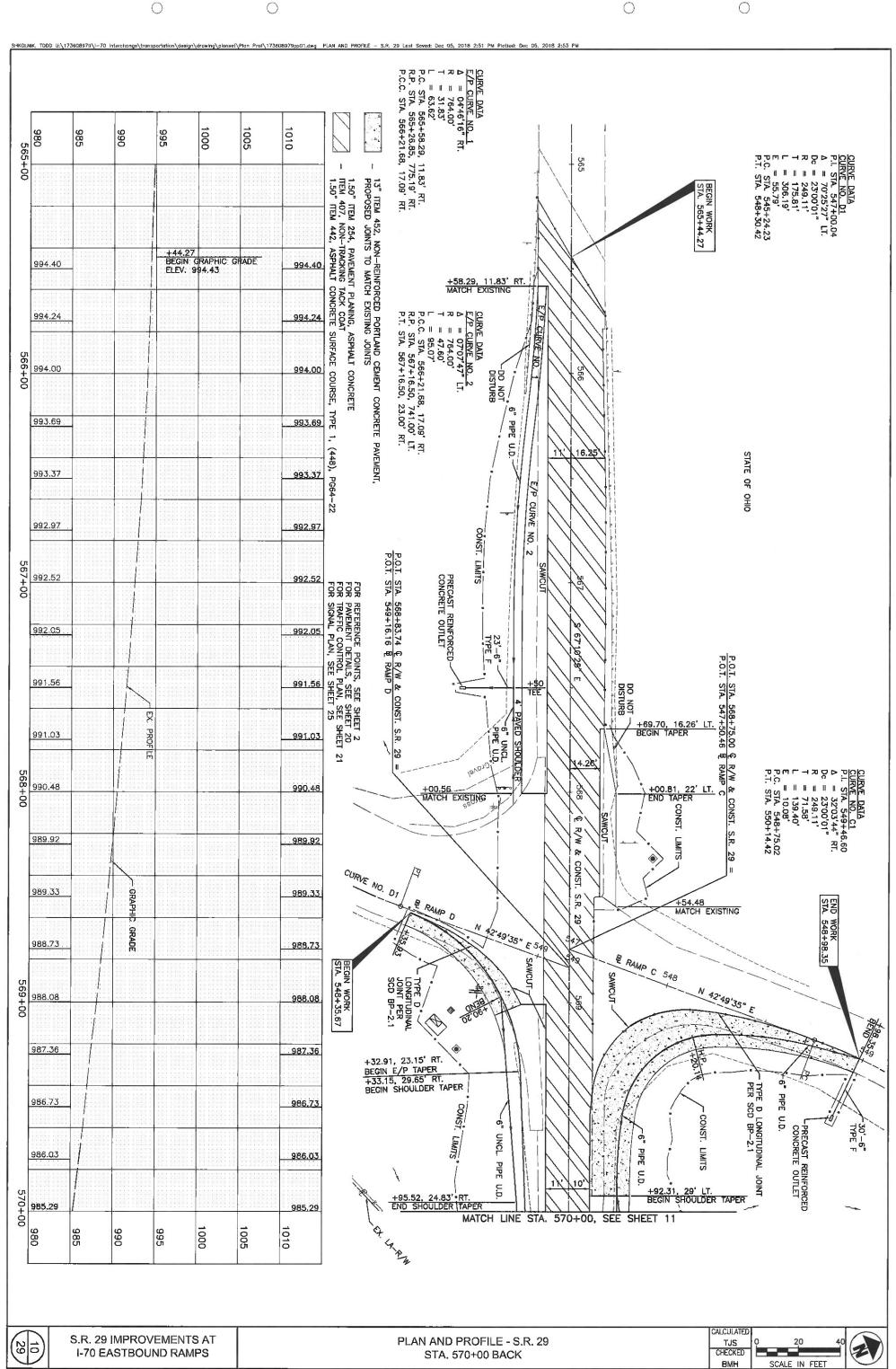
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	TYPE B CPM PROGRESS SCHEDULE MAINTAINING TRAFFIC, AS PER PLAN CONSTRUCTION LAYOUT STAKES AND SURVEYING MOBILIZATION	AY, POLYCARBONATE, WITH BACKPLATE, AS PER PLAN WY, POLYCARBONATE, WITH BACKPLATE, AS PER PLAN N N N N N N N N N N N N N	DESCRIPTION
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(29 8)	S.R. 29 IMPROVEMENTS AT I-70 EASTBOUND RAMPS	GENERAL SUIVIVIAR T	TJS ECKED BMH

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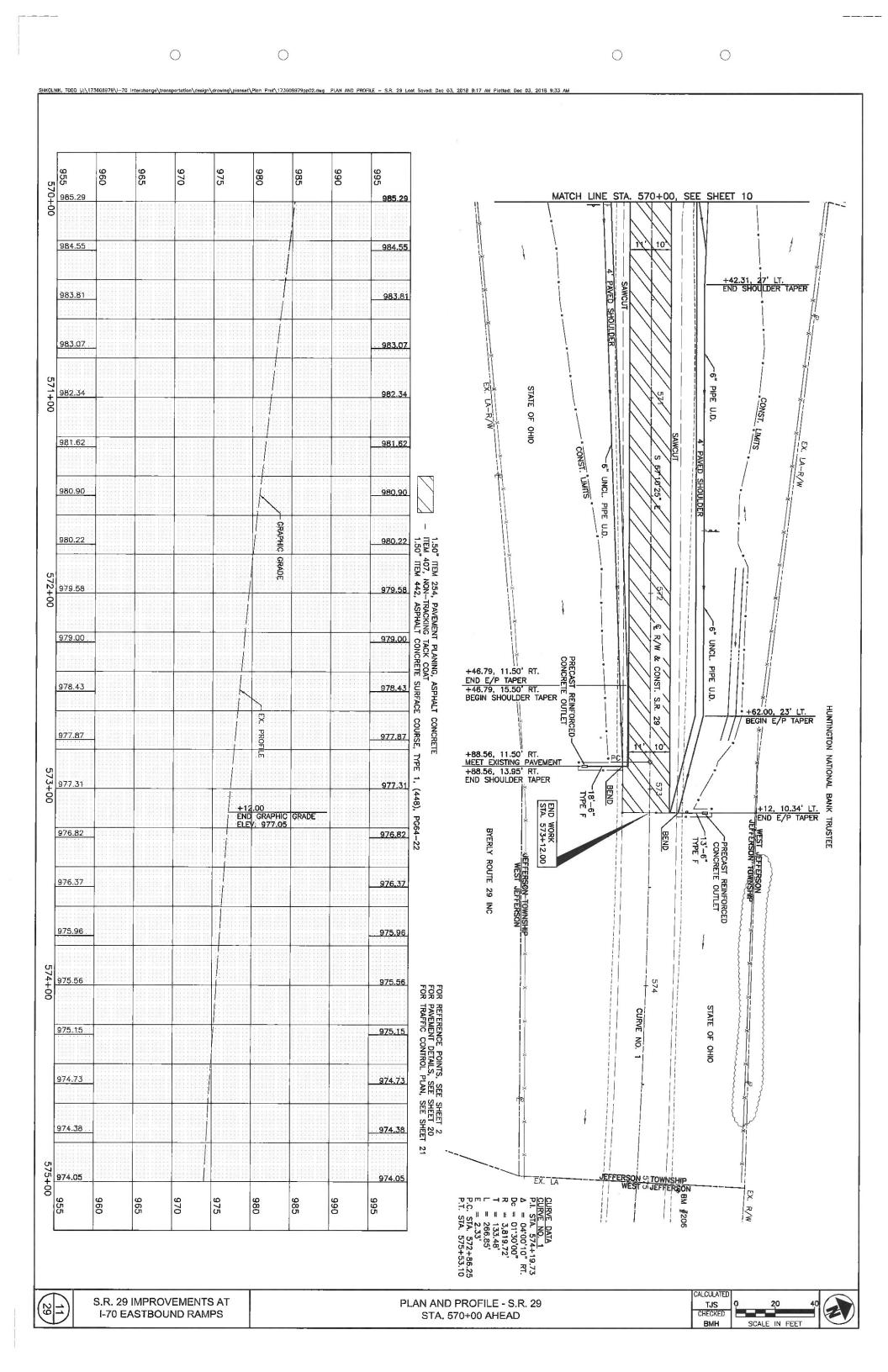
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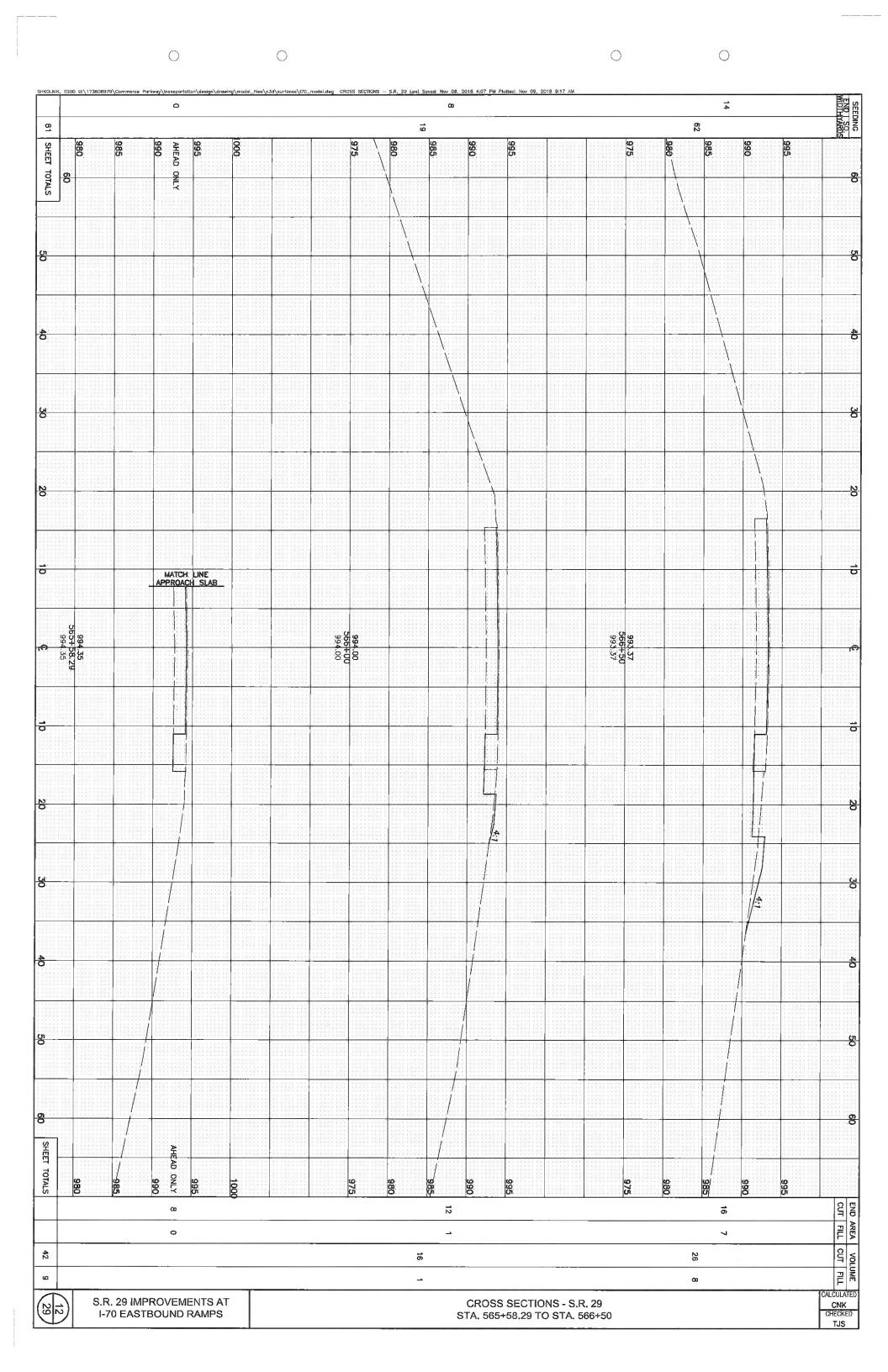
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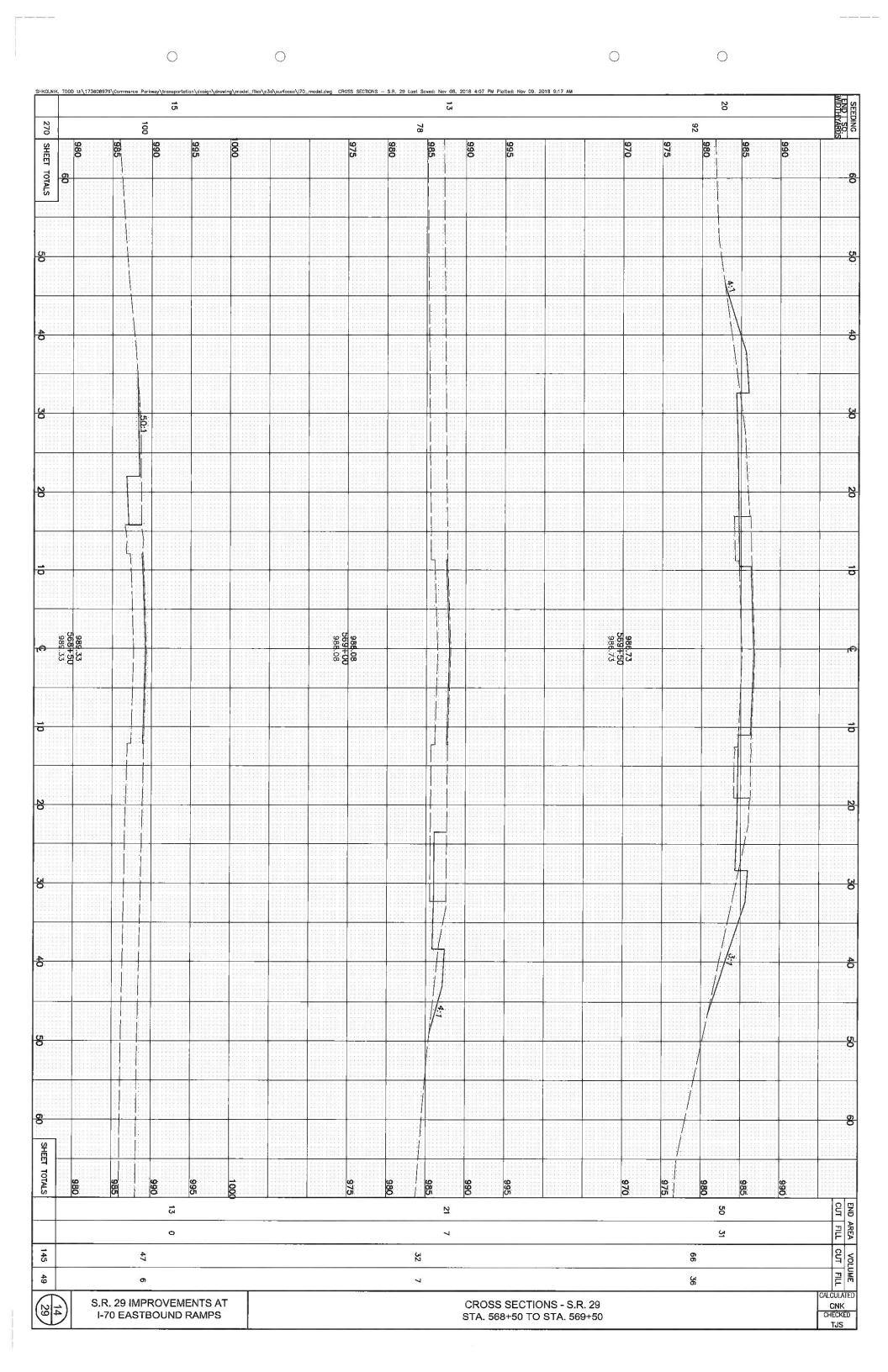


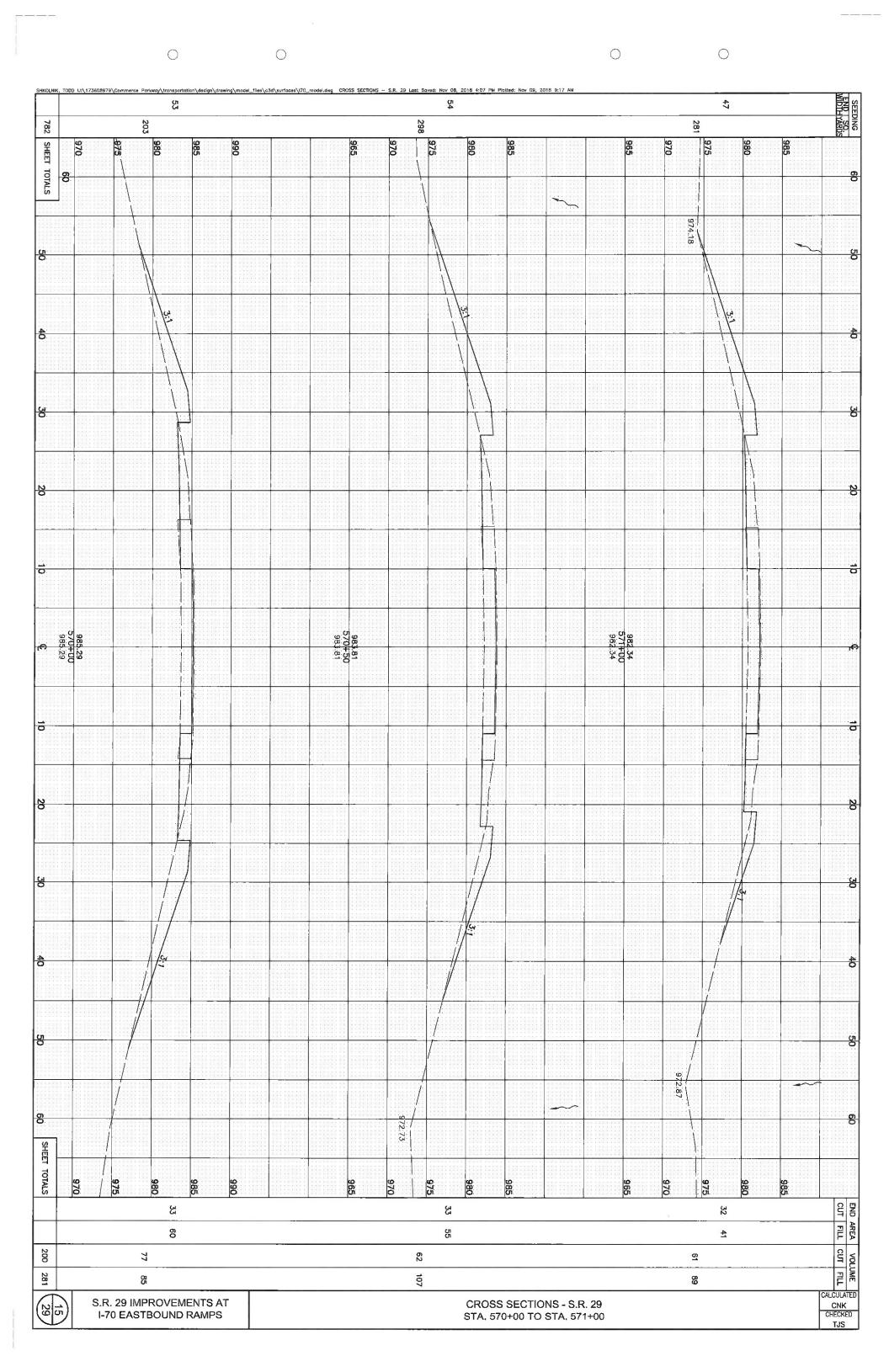
SCALE IN FEET

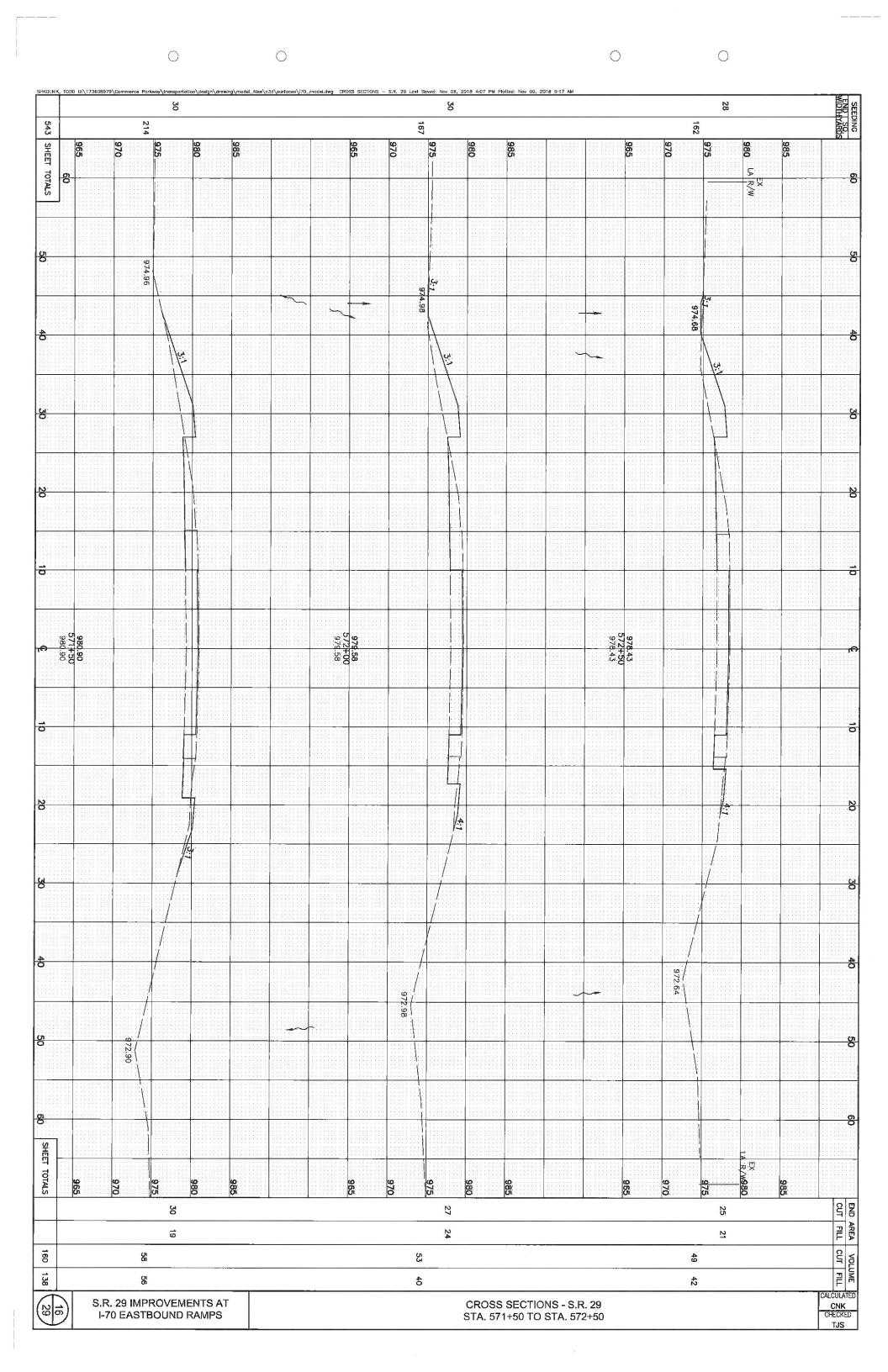


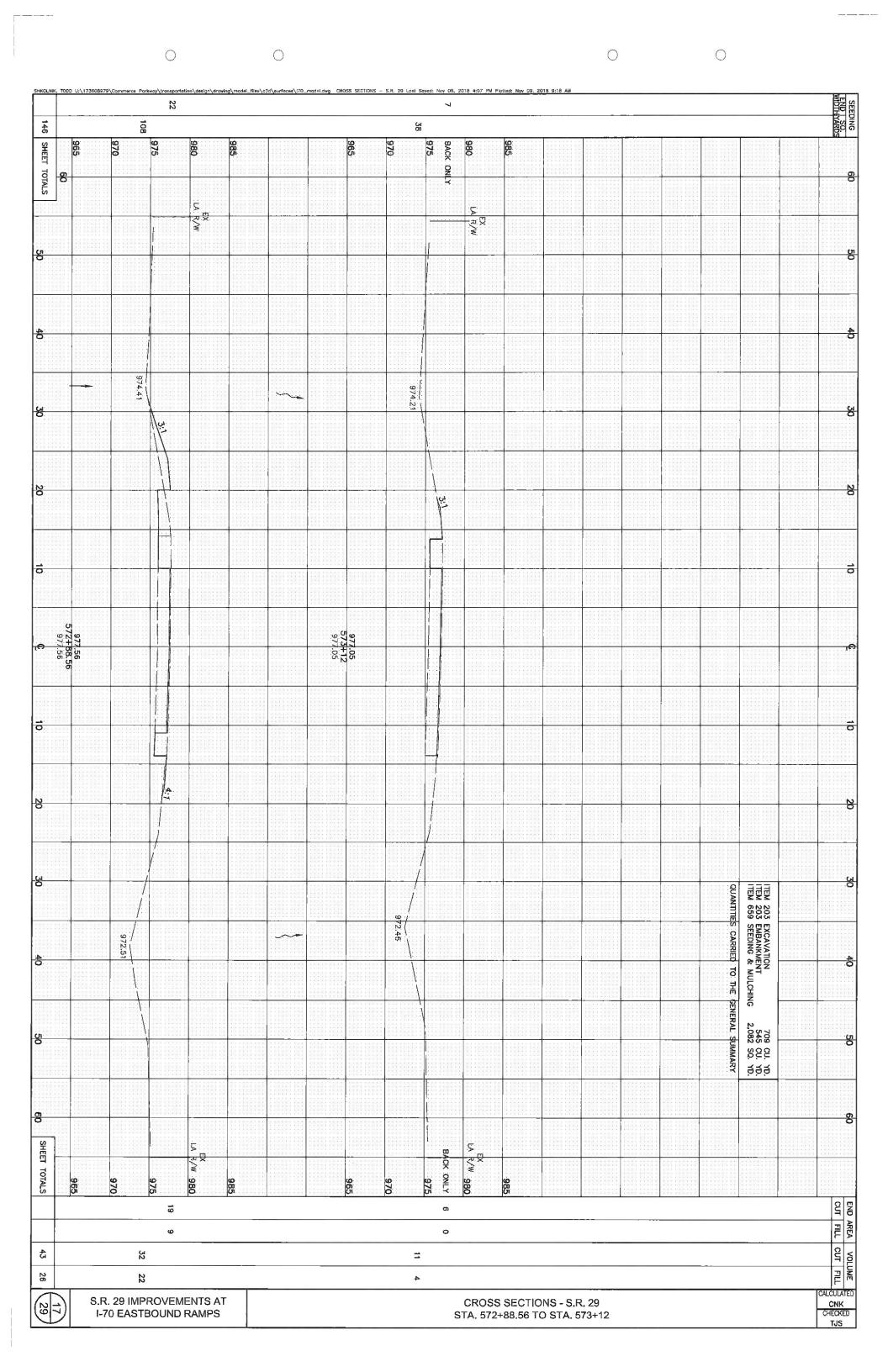


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16 22 22 990 995 975 990 980 995 980 SHEET TOTALS AHEAD 60 8 용 8 MATCH LINE SR 29 8 8 0 988.20 547.452.66 988.20 SKEW ANGLE 20' RHF 5 0 8 20 성 8 O. 8 0 MATCH LINE SR 29 SHEET TOTALS MATCH LINE SR 29 980 CUT END / 0 58 23 AREA 0 0 9 CUT FILL 78 4 38 0 4 S.R. 29 IMPROVEMENTS AT CNK CHECKED CROSS SECTIONS - RAMP C (2018) I-70 EASTBOUND RAMPS STA. 547+62.66 TO STA. 548+25

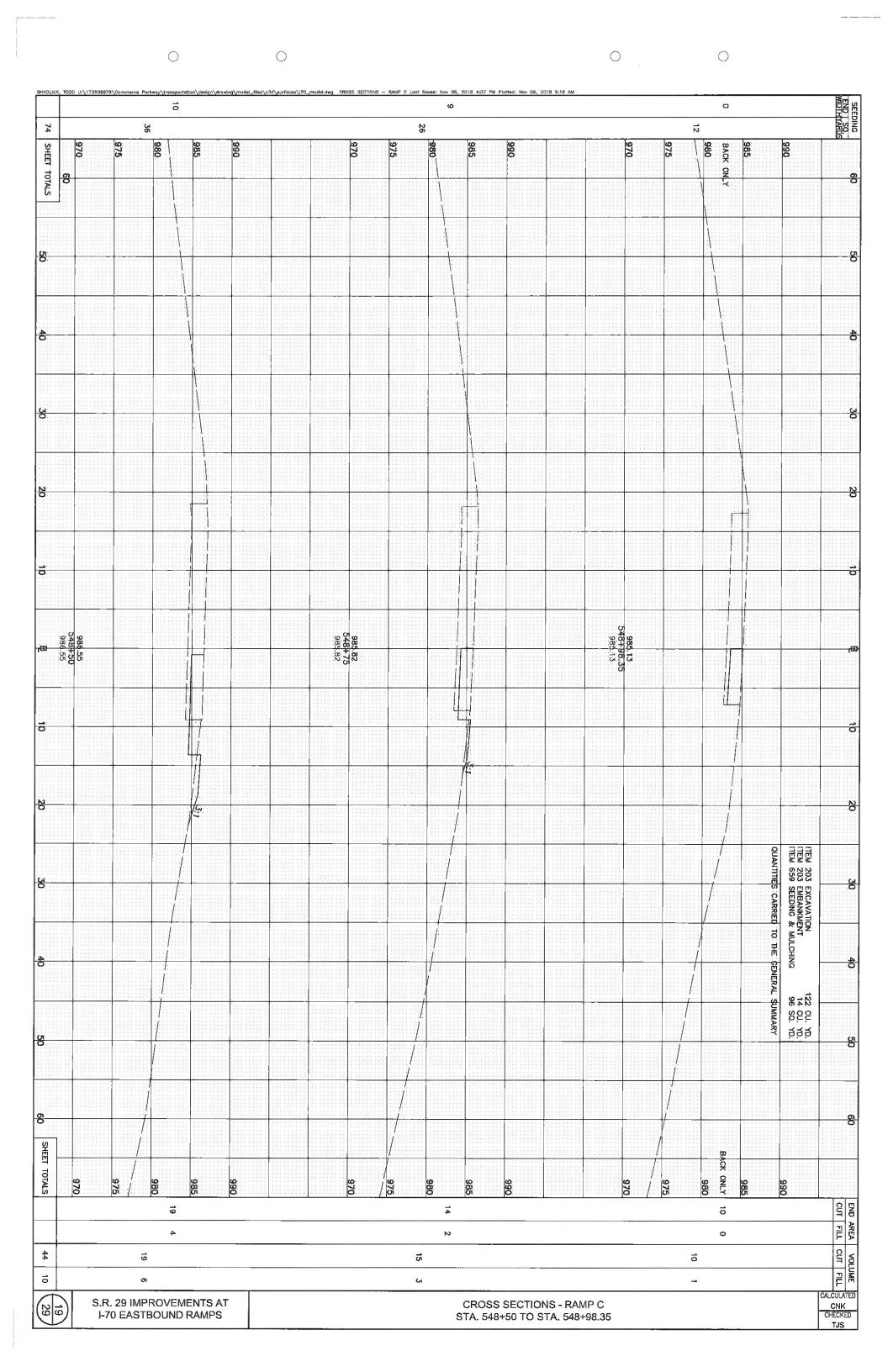
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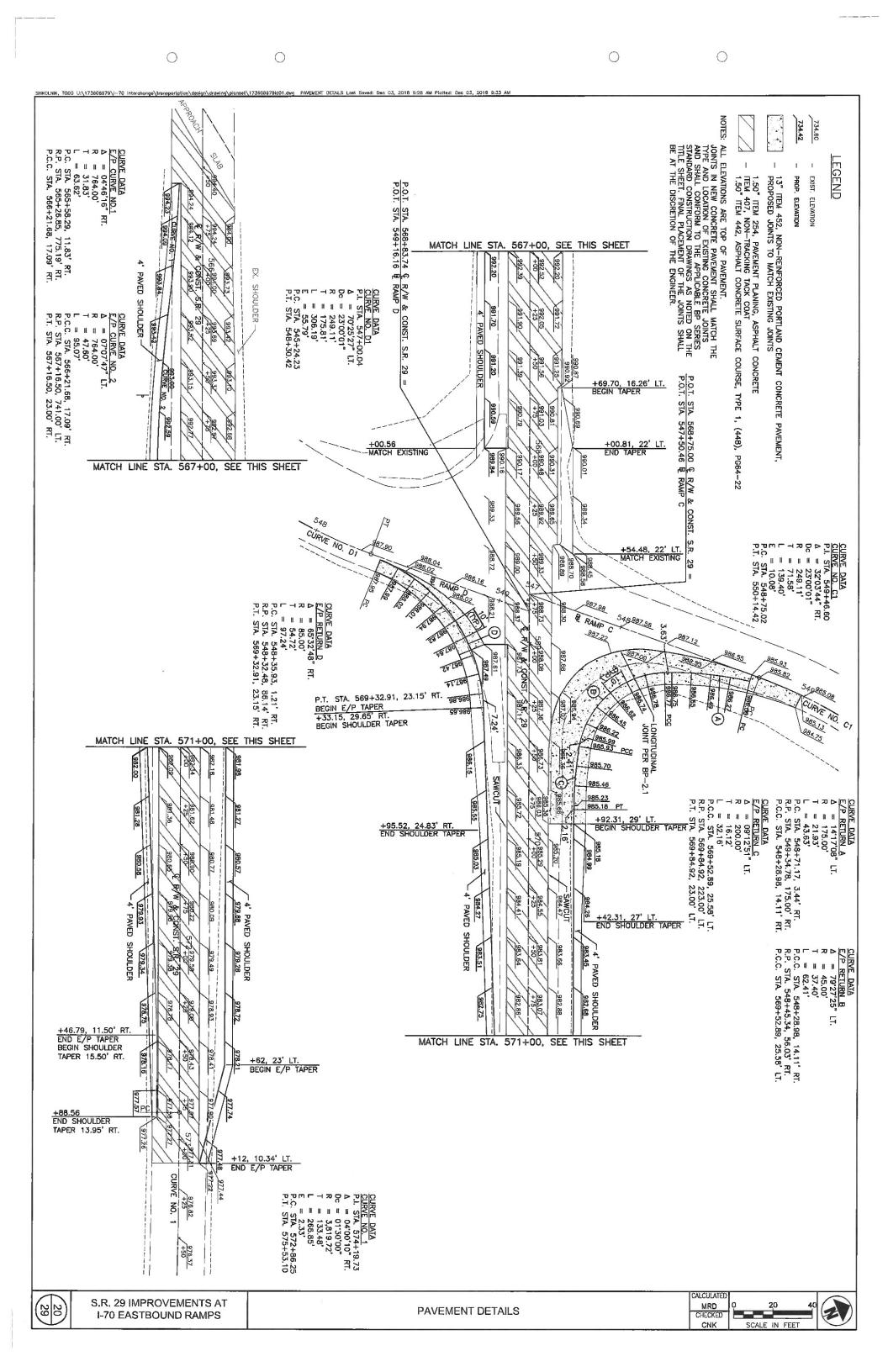
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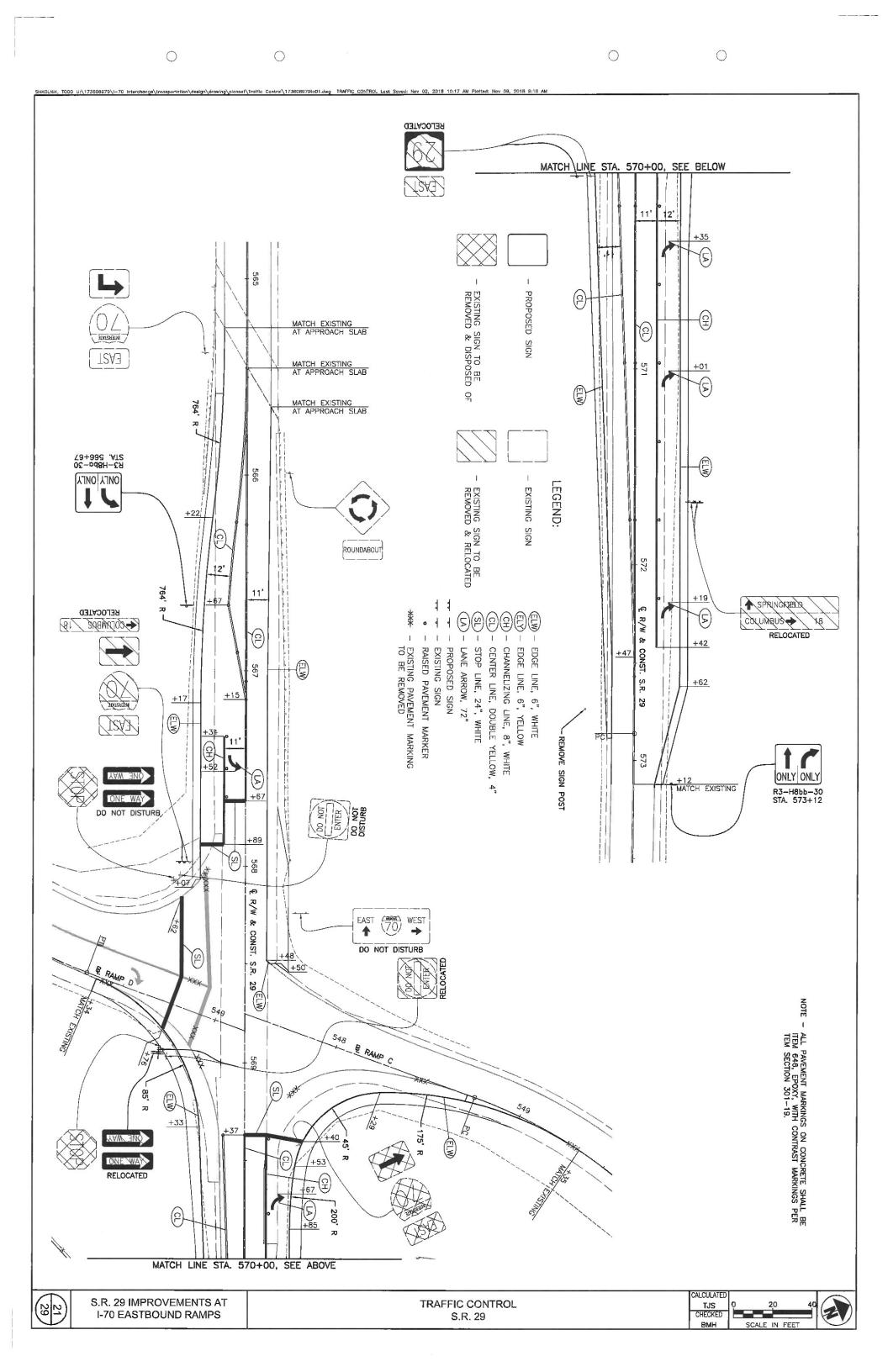
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NEW TRAFFIC SIGNAL INSTALLATION
THIS WORK CONSISTS OF FURNISHING AND INSTALLING TRAFFIC SIGNAL EQUIPMENT,
COMPLETE AND READY FOR SERVICE. THIS WORK ALSO INCLUDES NECESSARY EXCAVATION
AND BACKFILL, DISPOSAL OF DISCARDED MATERIALS, RESTORATION OF DISTURBED FACILITIES
AND SURFACES TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE WORK STARTED,
AND ELECTRICAL TESTING AS SPECIFIED.

BOXES, CONDUITS, GROUND LEQUIPMENT INSTALLATIONS RODS, AND CABLE ARE SPECIFIED IN SPLICING ITEM 625. STS REQUIRED FOR TRAFFIC

BEFORE ANY WORK IS STARTED ON THE TRAFFIC SIGNAL, THE DISTRICT SIX TRAFFIC ENGINEER (740-833-8198) AND THE CONTRACTORS REPRESENTATIVE SHALL REVIEW RESOLVE ANY POTENTIAL PROBLEMS AT THE LOCATION WHERE THE NEW SIGNAL WILL CONSTRUCTED. ₽₹

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ALL OF THE REQUIRED PERMANENT PAVEMENT I MARKINGS SHALL BE IN PLACE PRIOR 1 TO THE FINAL ACCEPTANCE

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PRIOR TO THE FINAL ACCEPTANCE OF THE COMPLETED TRAFFIC SIGNAL, THE DISTRICT SIX ROADWAY SERVICES REPRESENTATIVE AND THE CONTRACTORS REPRESENTATIVE, SHALL INSPECT AND RESOLVE ANY EXISTING PROBLEMS PRIOR TO THE ACCEPTANCE OF EACH NEW SIGNAL BY THE OHIO DEPARTMENT OF TRANSPORTATION.

SIGNAL ACTIVATION

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PRIOR TO ACTIVATING THE NEW TRAFFIC SIGNAL TO STOP—AND—GO MODE AND/OR REMOVING THE EXISTING TRAFFIC SIGNAL FROM SERVICE, ALL HEMS IN THE PROPOSED SIGNAL PLAN SHALL BE FULLY COMPLETED, (I.E., VEHICLE DETECTION, PEDESTRIAN SIGNAL HEADS, ETC.). IF THERE ARE CONSTRUCTABILITY 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 DISTRICT TRAFFIC ENGINEER. THE DISTRICT 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 DISTRICT 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 REINSPECTED 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.

DETECTION MAINTENANCE
IF VEHICLE DETECTION BECOMES UNEXPECTEDLY DISABLED, REQUIRES MODIFICATION, OR SCHEDULED TO BE TEMPORARILY REMOVED DURING THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER. ī

IF THE LOSS OF VEHICLE DETECTION IS KNOWN PRIOR TO THE START OF CONSTRUCTION, IT SHALL BE DISCUSSED AT THE PRECONSTRUCTION MEETING. AT SUCH TIME, THE DISTRICT TRAFFIC ENGINEER SHALL ADVISE THE PROJECT ENGINEER AND CONTRACTOR ON THE APPROPRIATE ACTION TO RECTIFY ANY LOSS OF VEHICLE DETECTION. THIS MAY INCLUDE PLACING THE TRAFFIC SIGNAL ON MINIMUM OR MAXIMUM RECALL, MODIFYING THE MINIMUM GREEN TIMES, AND REMOVING THE MALFUNCTIONING DETECTION FROM SERVICE. WHERE NONNITRUSIVE DETECTION (I.E. VIDEO, RADAR) ALREADY EXISTS, THE CONTRACTOR SHALL INSURE THAT DETECTION IS OPERATING AND MAINTAINED BY RECONFIGURING THE DETECTION UNITS ACCORDINGLY DURING ALL CONSTRUCTION PHASES. THIS IS TO AVOID THE SIGNAL FROM MAXING OUT THE EFFECTED SIGNAL PHASE AND CREATING UNNECESSARY DELAYS.

LOCATIONS WHERE NON-INTRUSIVE DETECTION IS PROPOSED AND THE EXISTING VEHICLE DETECTION IS TO BE ABANDON, THE NON-INTRUSIVE VEHICLE DETECTION SHALL BE INSTALLED, CONFIGURED AND MAD FOR TO THE EXISTING DETECTION BEING DISABLED. THE CONTRACTOR SHALL CONTINUE TO MAINTAIN AND MODIFY THE DETECTION UNTIL FINAL ACCEPTANCE OF THE TRAFFIC SIGNAL. THIS IS TO ENSURE VEHICLE DETECTION REMAINS FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION.

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SHKOLNIK, TODD U:\173608979\-70 Interchange\transportation\design\drawing\planset\Signal\173608979sg04.dwg TRAFFIC SIGNAL GENERAL NOTES Last Saved: Nov 08, 2018 5:11 PM Plotted: Nov

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.

MAINTENANCE OF TRAFFIC SIGNAL INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CIRCUMSTANCES: EXISTING SIGNAL INSTALLATION 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 THE CONTRACTOR'S OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK ACCEPTED. THE TIME S

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NEW SIGNAL INSTALLATION OR DEVICE, CONTRACTOR SHALL BE RESPONSIBLE OF INSTALLATION UNTIL THE WORK IS FOR MAINTENANCE C ACCEPTED. OF THIS FROM 掃류

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THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS AND PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH WITH THE NAME(S) AND PHONE NUMBER(S) OF THE CONTRACTORS REPRESENTATIVE(S) TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MUST GIVE PROMPT ATTENTION TO THESE CALLS AND BE READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILLINES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF AN 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 NEW SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

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IF POLES AND/OR CONTROLLERS ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO OPERATION WITHIN THE ALLOWED 8 HOUR TIME 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. 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 CONTRACTOR SHALL BE AS OUTLINED ABOVE. FOR THE COLLECTION OF ANY COMPENSATION RESPONSIBLE FOR THE DAMAGE.

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SHALL MAINTAIN COMPLETE RECORDS 읶 MALFUNCTIONS INCLUDING:

AND PROBABILITY

TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

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

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AT LOCATIONS WHERE THE EXISTING SLOPE IS 6:1 OR GREATER, THE BURIED DEPTH OF FOUNDATION, AS SHOWN IN SCD TC-21.20 SHALL APPLY TO THE LOW SIDE OF THE SLOPE. THE TOP OF THE FOUNDATION SHALL BE SET 2 INCHES ABOVE THE EXISTING SURFACE ON THE HIGH SIDE OF THE SLOPE. THE ADDITIONAL DEPTH OF FOUNDATION NECESSARY TO MEET THESE REQUIREMENTS SHALL BE ADDED TO THE FORMED TOP.

THE CONTRACTOR SHALL CONTACT THE METER SECTION OF OHIO EDISON FOR INFORMATION REGARDING THE METER BASE INSTALLATION PRIOR TO ORDERING POLES. THE CONTRACTOR WILL BE RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOK UP. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE POWER COMPANY FOR THE ELECTRICAL SERVICE CONNECTION, UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE POWER CABLE INTO THE POWER COMPANY'S CIRCUITS.

THE VOLTAGE SUPPLIED SHALL BE NOMINALLY 120 VOLTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND THE PAYING OF ALL FEES IN THE EXCEPTION OF NORMAL MONTHLY ENERGY CHARGES, WHERE THERE IS AN EXISTING TRAFFIC SIGNAL THAT IS BEING REPLACED, THE CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY TO CONTINUE BILLING ON THE EXISTING DISTRICT 6 ACCOUNT. WHERE NEW SIGNAL IS BEING INSTALLED. THE CONTRACTOR SHALL ESTABLISH THE ACCOUNT IN NAME FROM ONSET. HE A ¥. T

TEM 632 - VEHICULAR : POLYCARBONATE, WITH BA SIGNAL H

THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IN OPERATION.

7.

F A VEHICLE ACCIDENT THE RESPONSE OF THE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THIS WORK FROM THOSE PARTIES

WHERE THE CONTRACTOR HAS FAILED OR CANNOT RESPOND TO AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PER AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 ANY SUBSEQUENT BILLINGS TO THE COSTS FOR POLICE SERVICES AND MAINTENANCE SERVICES BY THE PROVIDING AGENCY FORCES SHALL BE DEDUCTED FROM MONIES DUE TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105. PERIODS 5.15 AND

ANY VEHICULAR TRAFFIC SIGNAL OPERATION SHALL BE COVERED HEAD EITHER NEW OR EXISTING THAT WILL BE IN THE MANNER DESCRIBED IN 632.25. TUO 읶

THE CONTRACTOR S

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TIME OF NOTIFICATION OF MALFUNCTION;
TIME OF WORK CREWS ARRIVAL TO CORRECT THE
ACTIONS TAKEN TO CORRECT THE MALFUNCTION,
REPAIRED AND REPLACED; CORRECT THE MALFUNCTION;
MALFUNCTION, INCLUDING A LIST OF PARTS

A DIAGNOSIS OF REASON FOR THE MALFUNCTION REOCCURRENCE;

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A COPY O OF THESE RECORDS SHALL BE DAYS FOLLOWING COMPLETION PROVIDED OF EACH REPAIR. MITHIN THREE 3

STRAIN POLE AND PEDESTAL FOUNDATION ELEVATIONS

ELEVATIONS SHOWN IN THE PLANS FOR STRAIN POLE AND PEDESTAL FOUNDATIONS ARE FOR COMPUTATIONAL PURPOSES ONLY. THE ACTUAL ELEVATION OF THE FOUNDATION SHALL BE IN ACCORDANCE WITH TRAFFIC SCD TC—21.20 PROVIDED THE EXISTING SLOPE IS LESS THAN 6:1.

POWER ŝ 29, WEST OHIO 43162.

> POLYCARBONATE, WITH E REQUIREMENTS OF CMS 632 AND 732, THE FOLLOWING SHALL APPLY: BACK BAC NAL HEAD, (LED), BLACK, 5—SECTION, 12" LENS, 1—WAY, KPLATE, AS PER PLAN (PLATE, AS PER PLAN 12, LENS, 1-WAY

- HEADS VISORS ISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE AS SPECIFIED AND MEET ITE SPECIFICATIONS.
- PROPER E EXTERIOR L RATHER COLORS SHALL BE OBTAINED THAN PAINTING. BY USE 유 COLORED PLASTIC
- 등 5 AND INCLUDING THE
- WIRE INLET FITTING SS UPPORT HARDWARE AND PIPING HALL BE FERROUS METAL.
- THE ENTRANCE IN ORDER TO A ACHIEV ACHIEV កាត់ SHALL BE OF THE TRI-STUD POSITIVE LOCKING. DESIGN WITH SERRATED RINGS

NOT USED

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- ALUMINUM BACKPLATES FLUORESCENT YELLOW F S SHALL BE IN ACCORDANCE WITH THE C&MS AND INCLUDE REFLECTIVE BORDER.
- THE LIGHT EMITTING DIODE (LED) SIGNAL LAMP UNITS SHALL MEET THE REQUIREMENTS OF CMS 732.04-C.THE CONTRACTOR SHALL PROVIDE ODOT, IN WRITING, WITH THE LED MANUFACTURE ROME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE A WARRANTY PURPOSES. AND ARE
- SIGNAL HEADS SHALL HAVE A MINIMUM WALL THICKNESS OF 0.117 INCHES.
- SIGNAL IN THE HEADS PLANS. SHALL INCLUDE CUTAWAY TYPE VISORS UNLESS OTHERWISE SPECIFIED
- 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. BEFORE CLOSING SERRATIONS, APPLY A BEAD OF ROOM—TEMPERATURE VULCANIZING (RTV) SILICONE TO ALL SERRATED SURFACES AND THEN TIGHTEN, RTV SILICONE SHALL BE WHITE TO FACILITATE VISUAL INSPECTION. ON HEADS WITH DUAL CONCENTRIC SERRATED RINGS, COMPLETELY FILL THE SPACE BETWEEN THE RINGS WITH THE RINGS.
- BALANCE ADJUSTERS HEADS. SHALL NOT BE USED ON ONE-WAY HEADS OR TETHERED

PAYMENT FOR ITEM 632 VEHICULAR SIGNAL HEAD, (LED), BLACK, (BY TYPE), 12" LENS, 1—WAY, POLYCARBONATE, WITH BACKPLATE, AS PER PLAN SHALL BE MADE FOR COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL EQUIPMENT, MATERIALS, AND NEW ATTACHMENT HARDWARE. HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, NEW ATTACHMENT HARDWARE.

IN ADDITION TO FOLLOWING ENTIRE BACKPLATE SHALL E TEM 632 -COVERING G CMS 632, A BE COVERED. ZEMICULAR SIGNAL HEADS, AS PER PLAN

CMS 632, ALL PARTS OF THE SIGNAL HEADS INCLUDING THE

FURNISH A CDMA MODEM, TWO ANTENNAS WITH A 10-FOOT CABLE, AND A 10' ETHERNET CABLE FOR REMOTE WIRELESS CELLULAR COMMUNICATION. FOR NETWORK CONSISTENCY CDMA MODEMS SHALL BE THE SIERRA WIRELESS AIRLINK GX450 ETHERNET MODEL.

THIS ITEM SHALL SWITCH WITH ALL INCLUDE THE FURNISHING OF A COMTROL ROCKETLINX ES8105 POWER SUPPLIES NECESSARY TO FUNCTION.

THIS ITEM SHALL INCLUDE THE FURNISHING AND INSTALLATION OF A MOUNTING BRACKET FOR THE ANTENNA WITH ALL NECESSARY HARDWARE INCLUDING BUT NOT LIMITED TO SPRING NUTS, WASHERS, AND BOLTS THAT INSTALLS TO THE MOUNTING CHANNEL ON THE SIDE OF THE SIGNAL CABINET.

THE CDMA MODEM EQUIPMENT SHALL PROGRAMMING AND INSTALLATION. 띰 DELIVERED TO ODOT DISTRICT 6 TRAFFIC FOR

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ODOT DISTRICT 6 TRAFFIC

ATTN: 400 EAST WILLIAM STREET KEN GREENE

DELAWARE, OHIO 43015

THE CONTRACTOR SHALL PROVIDE THE MODEM SERIAL NUMBERS AND NECESSARY NUMBERS FOR ODOT TO ESTABLISH WIRELESS SERVICE.

ESN

콖폮 DEPARTMENT WILL MEASURE "SIGNALIZATION, MISC.: COMA MODEM, NUMBER OF COMPLETE UNITS FURNISHED AND RECEIVED BY ODOT , FURNISH ONLY' BY

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THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 90 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. EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS (
CONTROLLERS AND ASSOCIATED EQUIPMENT, DETECTOR MASTER CONTROL EQUIPMENT. OF THE TRAFFIC CONTROL SYSTEM: UNITS, INTERCONNECTION ITEMS AN

CUSTOMARY OVER TO THI EQUIPMENT. RY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL I BE TURNED E OF THE

THE COST Ξq THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE TO AND SYSTEM.

THE ELECTRICAL TRAFFIC CONTROL EQUIPMENT PROVIDED SHALL MEET THE FOLLOWING SPECIFICATIONS AND BE MANUFACTURED BY ECONOLITE. THE EQUIPMENT PROVIDED AS PART OF THIS CONTRACT SHALL BE THE LATEST MODEL, CURRENTLY UNDER PRODUCTION AND NEW. THE CONTROLLER CABINET AND ACCESSORIES SHALL MEET THE MODIFICATIONS OF THE GOUND MOUNTED P CABINET SHALL BE EL 720 SIZE 7 (SIZE R) WITH A MINIMUM OF THREE SHELVES. THE CABINET SHALL BE EL 720 SIZE 7 (SIZE R) WITH A MINIMUM FINISH INSIDE AND DUTSIDE. THE LOAD BAY SHALL BE THE TESO16 OR NEWER, WITH 16 LOAD SWITCH POSITIONS. PROVIDE ONLY THE EXACT NUMBER OF LOAD SWITCHES REQUIRED. EACH LOAD SWITCH SHALL HAVE LIGHT EMITTING DIODES (LEDS) FOR THE CONTROLLER OUTPUT AND LOAD SWITCH SHALL HAVE LIGHT EMITTING DIODES (LEDS) FOR THE COUTPED WITH TWO 16-CHANNEL CABINET DETECTOR RACKS (CDR) INCLUDING BUS INTERFACE UNITS (BIU). THE EXACT NUMBER OF FLOOP DETECTOR RECKING PAVILLE FOR THE SECOND DETECTOR RACK SHALL BE EQUIPPED WITH SOFTWARE REQUIRED FOR EACH INTERSECTION. THE CABINET SHALL BE WRED TO ALLOW THE USE OF EVP CONFRANTION LIGHTS. THE POLICE PANEL ON THE OUTSIDE OF THE CABINET DOOR SHALL HAVE A PLASH SWITCH, A SWITCH FOR A MINIMUM CORD LENGTH OF FOET. THE TECHNICIAN PANEL ON THE TECHNICAN PANEL ON THE CABINET SHALL BE EQUIPPED WITH SOFTWARE REQUIRED FOR EACH INTERSECTION. THE CABINET DOOR SHALL HAVE A FLASH SWITCH, A SWITCH, A SWITCH FOR A MINIMUM CORD LENGTH OF FEET. THE TECHNICIAN PANEL ON THE INSIDE OF THE CABINET DOOR SHALL HAVE A FLASH SWITCH, A SWITCH FOR A MINIMUM CORD LENGTH OF FEET. THE TECHNICIAN PANEL ON THE INSIDE OF THE CABINET DOOR SHALL ALSO BE SUPPLIED.

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표 œ ≽ CONTROLLER CABINET SHALL ALSO INCLUDE: 0

- SLIDE-OUT LAPTOP SHELF
- INTERIOR, UNDERSHELF LED CABINET LIGHTING, INCLUDING A MINIMUM OF 2 PANELS OF 6 HIGH-INTENSITY LED'S EACH AND A DOOR-ACTIVATED SWITCH. THE LED PANELS SHALL BE MOUNTED IN LOCATIONS TO MAXIMIZE LIGHT ON THE CABINET EQUIPMENT.
- A GOOSENECK/ADJUSTABLE LIGHT FIXTURE WITH AN LED LAMP. THE ADJUSTABLE LIGHT FIXTURE SHALL BE MOUNTED ON THE LOWER RIGHT SIDE OF THE CONTROLLER CABINET.
- A MINIMUM OF TWO (2) GFCI PROTECTED RECEPTACLES
- A MINIMUM OF SIX (6) S SURGE PROTECTED

DETECTOR LEAD-IN CABLE:

PHASE NUMBER SERVICE, DIRECTION, MOVEMENT TYPE, AND LOOP PLAN NUMBER.

SIGNAL HEAD FIELD WIRING: PHASE NUMBER, DIRECTION, MOVEMENT TYPE, AND ARROW, GREEN ARROW) OR PEDESTRIAN MOVEMENT. COLOR YELLOW. GREEN, YELLOW

THE CONTROLLER TIMER SHALL BE THE ECONOLITE COBALT (OR MOST CURRENT MODEL) NEMA TS-2 TYPE 2 AND COME EQUIPPED WITH ALL INTERNAL COMPONENTS TO MAKE IT FULLY SYSTEM READY FOR THE CENTRAC (OR LATEST) SYSTEM, INCLUDING THE INTERNAL MODEM. EACH CONTROLLER TIMER SHALL HAVE 6 MODES OF COORDINATION, ADAPTIVE TRAFFIC CONTROL, REPORTS, PREEMPTION / PRIORITY, DIAGNOSTICS AND INTERNAL TIME BASE CONTROL.

THE MALFUNCTION MANAGEMENT UNIT SHALL HAVE A RJ-45 PORT FOR PC/NETWORK COMMUNICATIONS.

EACH CONDUIT ENTRANCE TO THE CABINET SHALL BE SEALED WITH A RUBBER PIPE/CONDUIT SEAL GASKET. THE SEAL SHALL BE OF A MATERIAL AND TYPE TIGHTLY FITTING AND ABLE TO SEAL OUT WATER, INSECTS, RODENTS, AND DIRT. THE SEAL SHALL EASILY REMOVED FOR SERVICE INSTALLATIONS OR CABLE REPLACEMENTS. 照

THE CONTRACTOR SHALL PROVIDE THE CABINET WIRING DIAGRAM/PLANS IN .PDF FORMAT ODOT DISTRICT 6 TRAFFIC. Т

PAYMENT FOR ITEM 633 — CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, PER PLAN, WILL BE AT THE CONTRACT BID PRICE COMPLETE AND IN PLACE CONNECTIONS TESTED AND ACCEPTED. TYPE TS2, AND ĀS

THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS) AND THE TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS: GROUNDING AND BONDING

ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH.

ρ ADDITION TO CONDUCTOR. EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING

ŗ WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05), THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.

ō METALLIC CONDUIT CARRYING THE LOOP WIRES FROM IN THE PAVEMENT TO THE PULL BOX SPLICE LOCATION WILL ONLY BE BONDED AT THE PULL BOX END, AND WILL NOT CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.

POWER,

ō. IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED. POINTS, ONLY ONE

IF AN EQUIPMENT GROUNDING CONDUCTOR IS NEEDED IN CONDUIT BETWEEN SIGNALIZED INTERSECTIONS FOR UNDERGROUND INTERCONNECT CABLE, THE GROUNDING SYSTEM FOR EACH SIGNALIZED INTERSECTION WILL BE SEPARATED ABOUT MIDWAY BETWEEN THE INTERSECTIONS.

THE MESSENGER WIRE AT SIGNALIZED INTERSECTIONS WILL BE USED AS THE CONDUCTIVE PATH FROM CORNER TO CORNER IF CONDUIT IS NOT PROVIDED UNDER THE ROADWAY. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTION, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED IN THE CONDUIT.

'n CONDUITS.

ρ THE 725.04 CONDUIT SHALL HAVE GROUNDING BUSHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE. THREADED OR COMPRESSION TYPE BUSHINGS MAY BE USED.

THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE CONDUIT DEBURRED AT ALL TERMINATION POINTS.

BOTH ENDS OF METALLIC CONDUCTOR. CONDUIT SHALL BE BONDED б THE EQUIPMENT GROUNDING

ρ METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH CONDUIT FITTINGS UL APPROVED FOR THIS TYPE OF CONNECTION, BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR. WITH HTHE 중위

> ö USE INSULATED, COPPER JUMPERS IN BOXES AND WIRE SIZE SHALL BE AS WIRE FOR THE I E EQUIPMENT GROUNDING CONDUCTOR.
>
> MAY BE BARE OR INSULATED COPPER

USE 4 AWG BETWEEN TO CONTROLLER OR FLASHE THE POWER SERVICE AND SUPPORTS, POLES, IER CABINETS. PEDESTALS,

CONDUIT THAT REQUIRES

THE INSULATION SHALL BE LARGER, INSULATION MAY AL ACCESS POINTS. USE A MINIMUM 8 AWG INSTALLATION (INCLUDING SIZE AS SPECIFIED IN 3 ALLATION (INCLUDIN AS SPECIFIED IN BETWEEN LOOP DETECTOR PULL BOXES AND THE FIRST S A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE.

BETWEEN THE "PREPARE TO STOP WHEN FLASHING"

G SUPPORT) AND THE FIRST CONDUIT THAT REQUIRES A LARGER 3.A.I ABOVE. E GREEN OR GREEN WITH YELLOW STRIPE(S). FOR 4 / ALSO BE BLACK WITH GREEN TAPE/LABELS INSTALLED). FOR 4 AWG INSTALLED AT ₽ R

IN A HICHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE THE SAME WIRE SIZE AS THE DUCT CABLE OR DISTRIBUTION CABLE CIRCUIT CONDUCTORS, WITH THE MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WE BE MINIMUM SIZE 4 AWG. JUMPERS WILL

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GROUND ROD.

A 3/4 INCH SCHEDULE CONCRETE WALLS FOR T GROUND ROD. SHOULD I SHALL BE BONDED TO T VALLS FOR T : 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TO THE METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT THE GROUNDING CONDUCTOR.

THE TYPICAL GROUNDIN COPPER. G CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED,

THE GREEN CONDUCTOR IN SIGNAL CABLES (CONDUCTOR #4) SHALL NOT BE USED TO SUPPLY POWER TO A SIGNAL INDICATION. IT WILL BE CONNECTED TO THE SIGNAL BODY AS AN EQUIPMENT GROUND IN ALUMINUM HEADS AND IT WILL BE UNUSED IN PLASTIC HEADS. UNUSED CONDUCTORS SHALL BE GROUNDED IN THE CABINET. TYPICAL USE OF CONDUCTORS IS AS FOLLOWS:

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	T CWILLY TO	SERVICE CINE TOTAL TOTAL	4 10 AC 15
NOT USED	YELLOW ARROW	WHITE/BLACK STRIPE	7
#2 WALK	GREEN ARROW	BLUE	6
#2 DW/FDW	YELLOW BALL	ORANGE	5
EQUIPMENT GROUND	EQUIPMENT GROUND EQUIPMENT GROUND	GREEN	4
#1 DW/FDW	RED BALL	RED	3
AC NEUTRAL	AC NEUTRAL	WHITE	2
#1 WALK	GREEN BALL	BLACK	1
PEDESTRIAN SIGNAL	VEHICLE SIGNAL	COLOR	COND. NO

- 0 AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UNSPLICED CONDUCTOR. IF SPLICED, IT SHALL BE AN EXOTHERMIC WELD BUTT SPLICE.
- THE SERVICE NEUTRAL POWER SERVICE DISCON (AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY UNECT SWITCH.
- NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.

 IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH, EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.

PAYMENT - ALL MATE GROUND FAULT CURRI TERIALS AND WORK R RENT PATH SYSTEM & RACT. REQUIRED TO COMPLETE THE EFFECTIVE CONDUCTORS

UNDERDRAINS FOR PULLBOXES

REFERENCE TRAFFIC SCD HL—30.11 FOR DETAILS ABOUT DRAINING PULLBOXES. UNDERDRAINS FOR PULLBOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED 20 FEET. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE: SHALL

TEM 611. 4" CONDUIT, TYPE E 40

2923

WIRE.

CABINET. BEFORE PERFORMING THE WORK, THE CONTRACTOR, THE DISTRICT TRAFFIC ENGINEER AND THE PROJECT ENGINEER WILL PERFORM A SITE INSPECTION TO ESTABLISH THE LOCATION OF THE UPS CABINET AND FOUNDATION. MINIMUM) AN AND ANCHOR BOLTS TO THE REQUIREMENTS OF CMS 633 AND 733, A CABINET RISER (8 ND ANCHOR BOLTS SHALL BE PROVIDED WITH THE BASE MOUNTED NCH

THE UPS CABINET SHALL INCLUDE A GENERATOR POWER PANEL WITH A HEAVY DUTY POWER RELAY VERSUS THE LINE VOLTAGE GENERATOR SWITCH. THE GENERATOR INLET SHALL BE A RECESSED PANEL WITH A DOOR THAT IS FLUSH HITH THE EXTERNAL SIDE OF THE UPS CABINET. IT SHALL INCLUDE A RECESSED PLUG, AUTOMATIC TRANSFER SWITCH, A DOOR THAT SECURELY CLOSES OVER THE POWER CORD, AND AN LED LIGHT THAT INDICATES LINE POWER IS AVAILABLE.

THE UPS OUTPUT NOTIFICATIONS FOR ON BATTERY, BATTERY 2 HOUR TIMER, AND LOW BATTERY SHALL BE WIRED INTO THE TRAFFIC SIGNAL CABINET BACK PANEL TO PROVIDE SPECIAL STATUS ALARMS FOR EACH OUTPUT INTO THE SIGNAL CONTROLLER. SPECIAL STATUS ALARMS SHALL BE PROGRAMMED INTO THE CONTROLLER.

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THIS ITEM SHALL INCLUDE A RED LED STATUS INDICATOR LAMP TO ALLOW MAINTENANCE PERSONNEL AND LAW ENFORCEMENT TO QUICKLY ASSESS WHETHER A TRAFFIC SIGNAL CABINET IS BEING POWERED BY A UPS. THE LED HOUSING SHALL BE NEWA 4X, IP65 OR IR86, RATED FOR OUTDOOR USE AND BE TAMPER/ SHATTER RESISTANT.IT SHALL BE A DOMED ENCLOSURE CONTAINING A RED LENS WITH LED THAT IS VISIBLE FROM 100 FEET MINIMUM. THE ENCLOSURE AND LED LAMP UNIT SHALL BE PLACED ON THE STREET-SIDE OF THE CABINET OR CENTERED LED LAMP UNIT SHALL BE PLACED ON THE STREET-SIDE OF THE CABINET OR CENTERED USING MINIMUM 20GA STRANDED, INSULATED HOOKUP WIRE TO THE STATUS RELAY OUTPUTS OF THE UPS. THE WIRES SHALL BE TERMINATED BY LUGS AT THE DISPLAY END AND PERMANENTLY LABELED "BACKUP POWER STATUS DISPLAY," WITH WIRE POLARITY INDICATED. THE RED LED SHALL ONLY ILLUMINATE TO INDICATE THE CABINET IS OPERATING UNDER UPS BACKUP POWER (THE "BACKUP" OPERATING CONDITION). THIS ITEM ALSO INCLUDES PROGRAMMING THE UPS STATUS RELAY OUTPUTS TO PRODUCE THE LAMP STATUS DISPLAYS. THESE STATUS DISPLAYS WILL BE SOLID 100% DUTY CYCLE (NOT FLASHING) DISPLAYS. THE OPERATING VOLTAGE OF THE LED LAMP SHALL BE 120V AC UNLESS OTHERWISE INDICATED.

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BATTERY BALANCER SHALL BE FURNISHED AND INSTALLED WITH THE SYSTEM

THIS ITEM SHALL INCLUDE THE INSTALLATION OF THE ALPHA POWER AGENT REMOTE BATTERY MANAGEMENT SYSTEM FURNISHED WITH ALL EQUIPMENT AND SOFTWARE TO BRING THE SYSTEM TO FULL OPERATING CAPABILITIES. THE SOFTWARE PROVIDED SHALL BE THE "NO SOFTWARE" OPTION USING THE SITE CONTROLLER'S INTERNAL WEB INTERFACE AND THE "LOOKOUT" SOFTWARE.

ITEM 633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN

THE CONTROLLER UNIT AT S.R. 29 AND ENTERPRISE PARKWAY SHALL BE REPLACED
THE LATEST MODEL OF ECONOLITE TOUCH SCREEN CONTROLLER UNIT. THE OLD
CONTROLLER UNIT SHALL BE DELIVERED TO THE VILLAGE OF WEST JEFFERSON.

PAYMENT FOR ITEM 6.33 CONTROLLER UNIT, TYPE FOR COMPLETE UNIT FURNISHED AND INSTALLED, MATERIALS. TS2/A2, AS PER PLAN SHALL BE MADE INCLUDING ALL LABOR, EQUIPMENT, AND

ITEM 632 — SIGNAL SUPPORT FOUNDATION

PRIOR TO ORDERING THE SIGNAL SUPPORTS, THE CONTRACTOR SHALL CONTACT OUPS TO HAVE ALL THE UTILITIES LOCATED IN THE FIELD THEN MEET WITH THE PROJECT ENGINEER TO LOCATE THE PROPOSED SUPPORT LOCATIONS TO INSURE THERE ARE NO CONFLICTS WITH UTILITIES. IF THERE ARE ISSUES, THE PROJECT ENGINEER SHALL PROVIDE GUIDANCE AS TO THE RELOCATION OF THE SUPPORT POLES.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE AND WILL BE FULL ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS SUPPORT FURNISHED, IN PLACE, COMPLETE AND ACCEPTED. NECESSARY FOR EACH

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THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING: POWER SHALL

OWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER. CABINET DETECTOR AND SHALL

THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED RECOMMENDED BY THE MANUFACTURER. RECOMMENDED

- SURGE PROTECTION DEVICES, AS RECOMMENDED INCLUDED BOTH AT THE POLE WHERE THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE ßΒ THE MANUFACTURER SHALL BE
- CABINET ELECTRONICS.

 THE MANUFACTURER'S REPRESENTATIVE SHALL I
 TESTING AND SHALL PROVIDE ONSITE TRAINING
 MAINTENANCE OF THE UNIT. BE ON SITE DURING INSTALLATION ON THE SETUP, OPERATION AND AND
- A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET)
- THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET, THE PANEL SHALL INCLUDE MODULAR—PLUG STYLE CONNECTIONS FOR A UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD—WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
- PRIOR TO PROGRAMMING, THE CONTRACTOR SHALL CONTACT THE ODOT DISTRICT 6 DISTRICT TRAFFIC ENGINEER AT 740-833-8198. A DISTRICT 6 TRAFFIC DEPARTMENT REPRESENTATIVE SHALL BE PRESENT DURING THE PROGRAMMING OF THE SYSTEM.

PAYMENT FOR ITEM 809 ADVANCE RADAR DETECTION SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

ITEM 809 STOP-BAR RADAR DETECTION
THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND
SMARTSENSOR MATRIX DETECTION UNIT. THE DETECTION UN
FOLLOWING: ND INSTALLING G A WAVETRONIX

- POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER. ALL REQUIRED INPUTS CARDS SHALL B BE COMPATIBLE WITH CALTRANS, NEMA BE INCLUDED IN THE TRAFFIC CABINET AND IA TS1 AND NEMA DETECTOR SHALL

THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED / RECOMMENDED BY THE MANUFACTURER. RECOMMENDED

SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER: INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT AND IN THE TRAFFIC CABINET TO PROTECT THE T THE L L BE

CABINET ELECTRONICS.

A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET) THE MANUFACTURER'S REPRESENTATIVE SHALL TESTING AND SHALL PROVIDE ONSITE TRAINING MAINTENANCE OF THE UNIT. BE ON SITE DURING INSTALLATION ON THE SETUP, OPERATION AND

TO FOUR (4) SENSOR CABLES, ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.

PRIOR TO PROGRAMMING, THE CONTRACTOR SHALL CONTACT THE ODOT DISTRICT 6
DISTRICT TRAFFIC ENGINEER AT 740-833-8198. A DISTRICT 6 TRAFFIC DEPARTMENT REPRESENTATIVE SHALL BE PRESENT DURING THE PROGRAMMING OF THE SYSTEM. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR—PLUG STYLE CONNECTIONS FOR A UP

PAYMENT FOR ITEM 809 STOP—BAR RADAR DETECTION SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED.

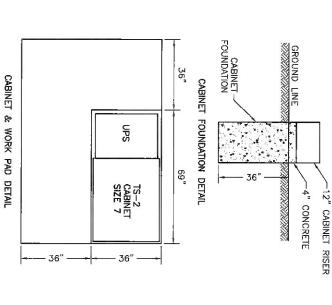
809 HIGH SPEED ETHERNET RADIO, AS PER PLAN

CONTRACTOR SHALL INSTALL HIGH SPEED ETHERNET RADIOS ON THE SIGNALS AT THE INTERSECTIONS OF S.R. 29 AND ENTERPRISE PARKWAY AND S.R. 29 AND COMMERCE PARKWAY. THESE RADIOS SHALL BE INSTALLED TO PROVIDE UNINTERRUPTIBLE COMMUNICATION BETWEEN ALL THREE SIGNALS, AS APPROVED BY THE ENGINEER.

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HKOLNIK, TODO U:\173608979\I-70 Interc

PAYMENT FOR ITEM 809, HIGH COMPLETE RADIO FURNISHED AI AND ATTACHMENT HARDWARE. AND INSTALLED, INCLUDING AS PER PLAN ALL LABOR, E N SHALL BE MADE FOR EQUIPMENT, MATERIALS,



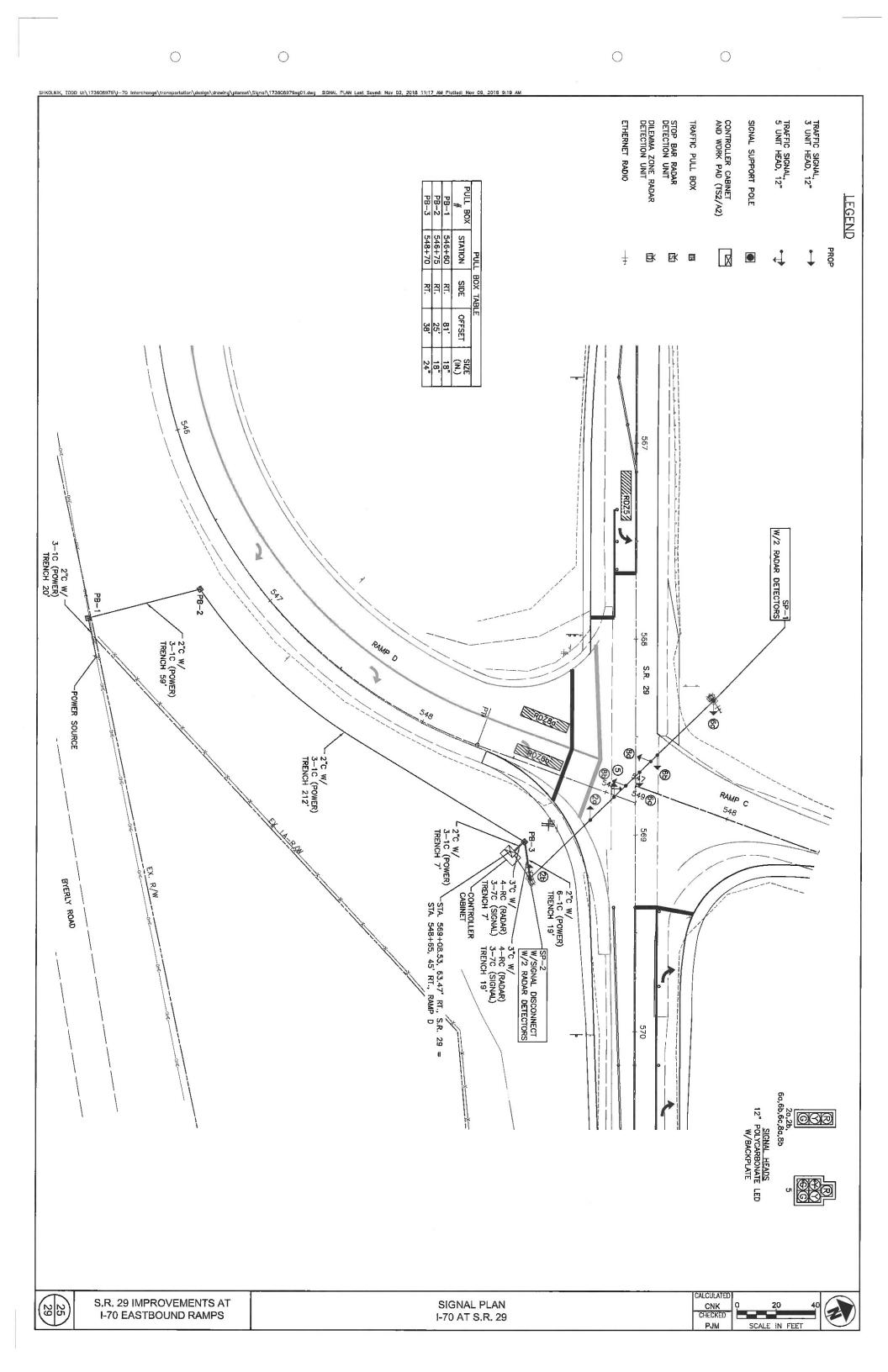
MAY VARY BASED 9

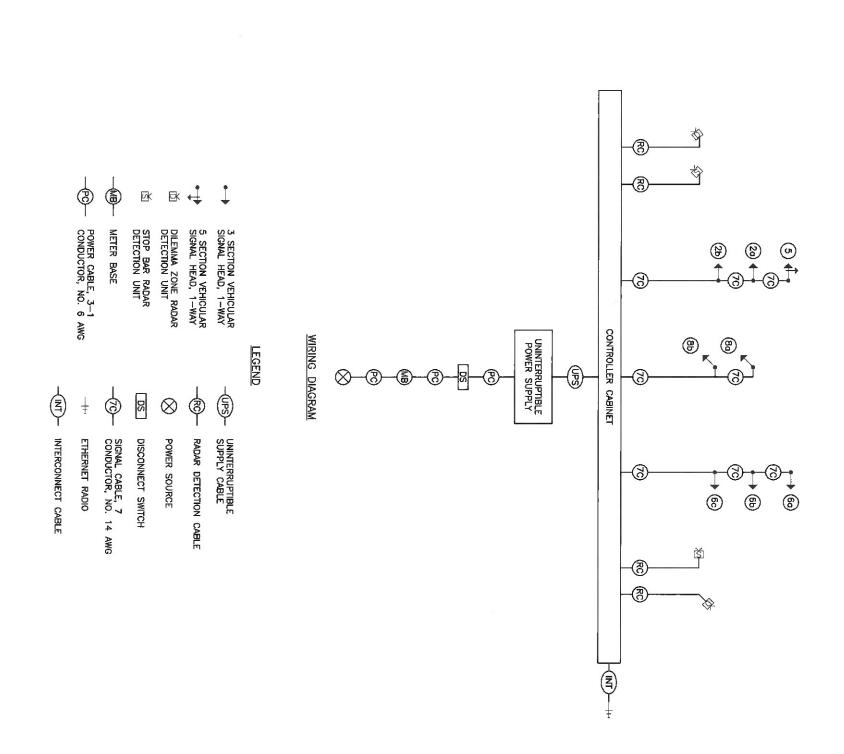
- NOTES:

 1. THE CABINET SI
 THE CABINET SI
 2. UPS FOUNDATION ELL
 FOUNDATION ELL
 THE UPS CABIN
 THE SIGNAL CABIN
 THE SIGNAL CABIN
 THE SIGNAL CABIN
 UPS SHALL BE THE UPS FOUNDATION MAT VALLE SIZE PROVIDED.

 TON ELEVATION SHOULD MATCH CABINET
- NET SHALL BE MOUNTED FLUSH UP AGAINST ABINET AND SEALED. WIRING FROM THE SIGNAL CABINET TO THE INSTALLED THROUGH THE CABINET RISER.

TS-2 SIZE 7 CABINET DETAIL





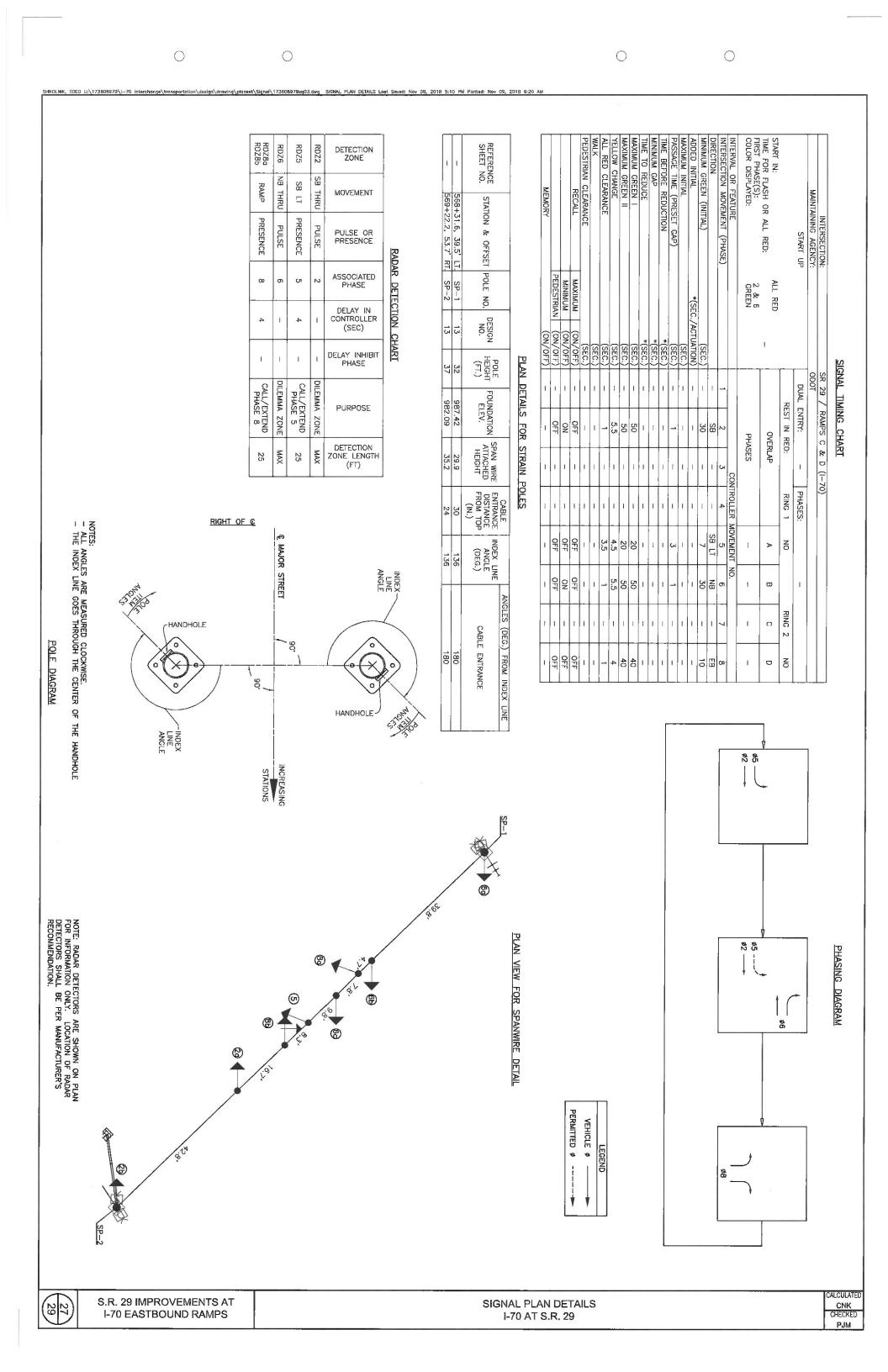
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i	NB OU,DU	0 0	i	WE DO, DC	6 5 7 8		ָרָ נ	F B ≺	n		[FR 20,20	ت ا ا	SIGNAL HEAD		
,	~	R	G	~	70	G	~	G	~	R	G	Y	R	INDICATION	HOOK-UP CHART	FIELD
	γ8γ	ø8R	960	¥6Y	ø6R	ø5G	Ø5Y	ø2G	ø2Y	ø2R	ø2G	ø2Y	ø2R	FIELD TERMINAL	P CHART	WIRING
	70			70				70				70		FLASH		

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MATERIAL SPECIFIC ATIONS FOR EB S GENERATOR POWER PANEL EQUIPMENT

GENERATOR INIET — The inlet shall be 30 amp, 125/250V, locking, four (4) wire grounding and meet the NEWA configuration number 114—30—P 30V 125/250 V specification. The inlet shall be a Fubbell catalog #2715.

HINE VCHTAGE GENERATOR SWITC — The switch shalt be 30 amp, 125/250V AC, two (2) pole, three (3) position (Cn. Cff. Cn). The switch shall be a Hubbell catalog #1.388.

INF VOLTAGE INDICATOR LIGHT — The indicator light shall be 125V AC light emitting diode with a red lens

LINE VOLTAGE CIRCUIT BREAKER WILLIAGH CIRCUIT BREAKER — The circuit breaker shall be single pole single throw and a minimum of 30 amps. amperage shall be increased to accomodate greater loads, if necessary. The gauge of the power cable shall be propor size per N.F.C.

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EXTERNALLLINE VOLTAGE INDICATOR LIGHT \sim The indicator light shall be a 1" waterproof NEMA 4X or lens.



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Schematic of the Feavy Duty Power Felay

FRONT VIEW 9 GENERATOR FOWER PANEL





FRONT VIEW CLOSED 1 ‡ FRONT VIEW OPEN DOCR DOOR

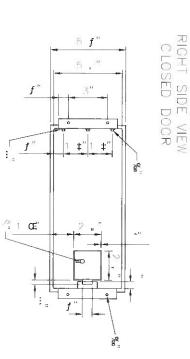
120 Vac+ to Signal Load Breakers,

120 Vac+ From the Line Side to Coil

120 Vac-From the Line Side to Coil

AC— to

Heavy Dury DPDT Power/Generator Pelay



BACK VIEW

CLOSED DOCR

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ELECTRICAL HOOKUP DETAIL FOR THE CONTROLLER CABINET GENERATOR POWER PANEL

Signal Load Circuit Breakers

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EXTERNALLIBIT VOLIAGE INDICATOR LIGHT required when called for in the plans.

EXTERNALLIME VOLITAGE INDICATOR LIGHT shall be located on the enclosure exterior for visibility from the adjacent coadway when all cabinet and generator panel doors are closed.

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+30 Vac+

120 Vac- Load into Relay N.C.

15 Amp. Breaker

DETAIL "C"
SCHEMATIC OF THE H.D.
DPDT CEN/POWER RELAY

Generator/ Inverter Relay N.C.

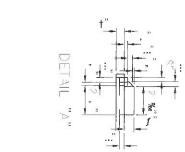
Pelay N.C.

120 /dc— From Generator/

External Line Toltage
Indicator (See Note Relow)





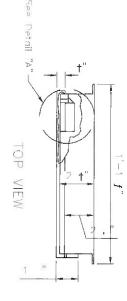


THIS DRAWING PERFACES PIS 203011 DATED 04-20-2012.

PIS 203011

CONTROLLER CABINET GENERATOR POWER PANEL

GENERATOR POWER PANEL ENCLOSU

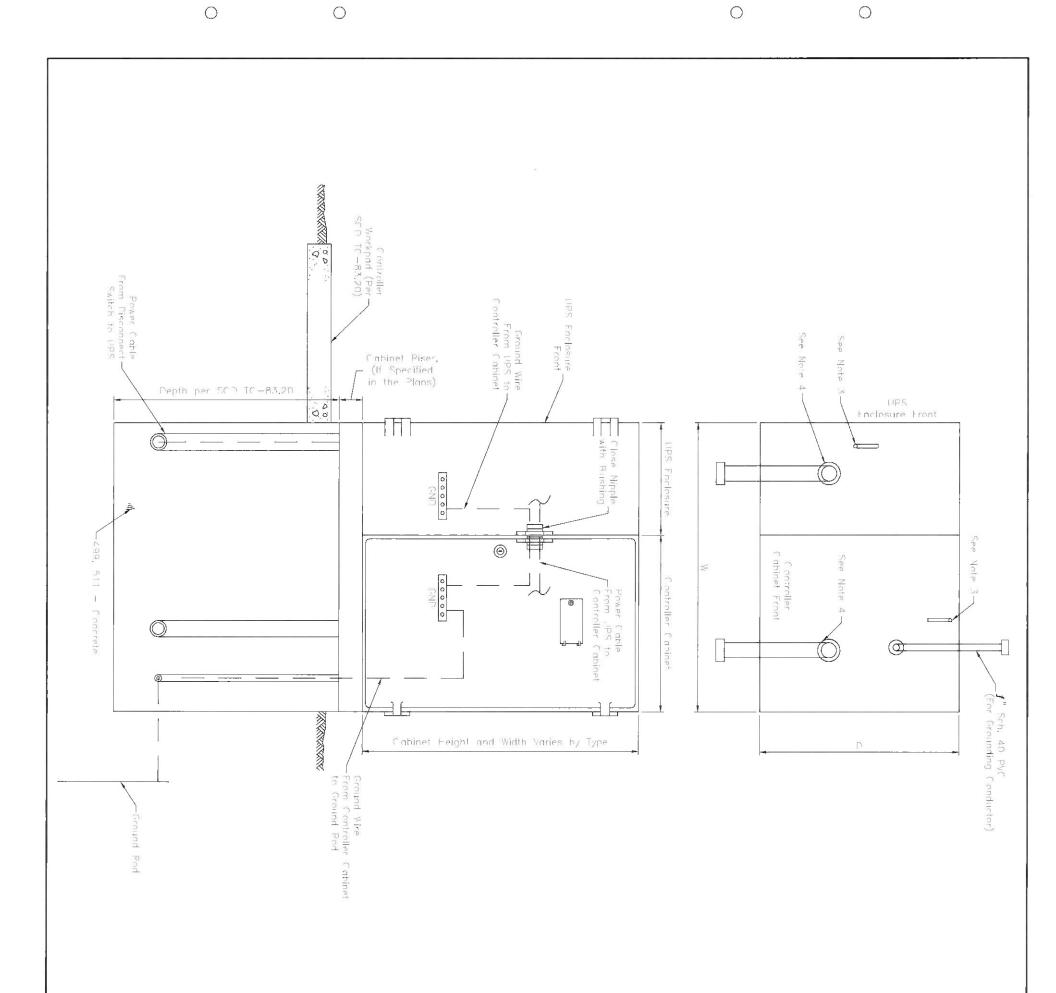


NOTES:

cryhole shall be covered with a movable circular aluminum or brass cover with top pivot pin.

Keyhole (over (Note 6)

See Patril "B"



70 / 70 = 0 70	TS-2 70 38	TS-1 60 24	TYPF (IN.) (IN.)
1.54	2.16	1.25	ECHNDATION CONCRETE (CH. YD.)

2. The LIPS should be the pull box on a Construction Drawin placement for a N provide adequate of guardrail spacing.

4. The size, r shall be c

as shown 40 PVC s

per CMS 705.03 shall and adjacent paved areas.

3. The size, n be in acco ations.

- should

THIS DPAWING PEPLACES PIS 208320 DATED 04-20-2012.

PIS 208320

PLAN INSERT SHEET UNINTERRUPTIBLE POWER SUPPLY (UPS) AND CONTROLLER CABINET FOUNDATION

07-18-2014

OFFICE OF ROADWAY ENGINEERING