

MR 509

State of Ohio
Department of Transportation
Permit

Office Use Only	
County: Highland	Route: 050
Logpoint: 23.640	to
AccCat:	

Permit No. 9010502

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

Name: South Central Power Company

Attn: bjohnson@southcentralpowercomp

Address: 2780 Coonpath Road NE

Phone: 6148374351

Lancaster OH 43130

is hereby granted a permit under Section 5515.01 and 5515.02 of Ohio Revised Code, and permission to perform work necessary in the manner described and at the location indicated in the following or as attached to this permit.

ACCESS MANAGEMENT COMMITTEE APPROVED Installing 15" pipes and constructing 2 commercial drives as per attached drawings and provisions. Permittee to contact ODOT prior to removing/installing new strain pole for specification/inspection requirements.

- * Neither the State of Ohio nor the Federal Highway Administration will participate in the cost of this installation.
- * Drive must slope away from the edge of pavement so that water/debris will NOT enter roadway.
- * Permittee &/or Agent (contractor) to provide [3] below the following information @ least 24hrs before work starts: Company/Contractor, State Route, Mile Marker To/From, & Estimated # of Days working.
- * Traffic Control per Ohio Manual of Uniform Traffic Control Devices.
- * Notify authorized ODOT employee listed below upon completion of work for final inspection of work. Final inspection must be approved by ODOT.

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

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

Authorized ODOT Employee: **Permits Coordinator- Brandon Garrison** Phone: 7407748875

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

[4] To the extent applicable, this permit shall be void if the work described herein does not comply with the conditions, terms, and requirements applicable to this permit, and if the work is not completed by **12/31/2020**

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

[6] The permittee accepts the conditions, terms, and requirements printed, written on, or attached to this permit and understands that failure to comply fully with those conditions, terms, and requirements or any change in the use of this 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 and including removal of the installation, if applicable, at the permittee's expense.

[7] Performance Bond Required? Yes No

Surety Company:

Effective Date:

Expiration Date:

Amount \$:

Reviewer: *David Egan* Date: 2/21/20

Director: *Jad Marchbanks* / 107 Date: 2/21/20

General Provisions Applicable to All Permits
(Sections 5515.01 and 5515.02 of O.R.C.)

- [1] This permit is not a substitute for satisfying the rights or obligations of any other party who may have an interest in the underlying fee interest.
- [2] The granting of this permit does not convey to the permittee or to the property served any rights, title, or interest in state highway rights of way or in the design or operation of the state highway; or in any way abridge the right of the Director of the Department of Transportation in his jurisdiction over state highways. If, in the process of any future work or for the benefit of the traveling public, it becomes necessary, in the opinion of the Director of Transportation to order the removal, reconstruction, relocation, or repair of any of the fixtures, or work performed under this permit, said removal, reconstruction, relocation, or repair shall be wholly at the expense of the owners thereof or the permittee and be made as directed by the Director of Transportation. Such changes in the state highway design or operation, necessary for improved safety and operation or for the benefit of the traveling public shall not require a permit modification since the permit confers no private rights to the permittee over the control of the state highway.
- [3] The District Deputy Director acts for and on behalf of the Director in issuing and carrying out the provisions of all permits. The District Deputy Director has full authority to ensure that all provisions of the permit are met and to reject any materials, design, and workmanship that do not meet applicable Department standards. The District Deputy Director, at his/her discretion, may require a performance bond or certified check as a prerequisite to the issuance of a permit.
- [4] Failure on the part of the permittee to comply fully with the provisions and conditions of the permit will be cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Departmental action. By accepting the permit, the permittee agrees to comply with all conditions, terms, and restrictions printed or written on or attached to the permit. If the permittee performs any work contrary to the conditions of the permit or to the instructions of the District Deputy Director and, after due notice, fails to correct the problem, the Department of Transportation may, with or without notice, correct such work and the permittee shall reimburse the Department for the costs.
- [5] The permittee shall indemnify and hold harmless the State of Ohio, Department of Transportation, its officers, representatives and assigns, from any and all loss, liability, damages, litigation costs, and claims for injury or death to any person, property, or business caused by or resulting from any act, omission, event, consequence, or occurrence, negligent or otherwise or the permittee, his employees, or assigns as a result of the issuance of this permit.
- [6] All work authorized under the permit shall be performed to the Department's satisfaction, and the entire expense shall be borne by the permittee. No work shall be performed until the permittee has contacted the Department's appointed representative named on the permit and received instructions. The Department's representative may inspect all work covered by the permit, or the Department reserves the right, during the time any or all of the work is being performed, to appoint an inspector over the work who shall represent the interest of the State on the work and any compensation arranged for shall be paid wholly by the permit holder. Work not in compliance shall be halted and the District Deputy Director shall be notified of the cause. The permittee shall be notified of the Department's action and its causes, and given an opportunity to correct the problem.
- [7] Failure to complete all work within the time specified on the permit shall void the permit, thereby making the permit illegal and subject to appropriate Departmental action. The permittee may request an extension in writing from the District Office, explaining why the extension is necessary and when the work is expected to be completed.
- [8] All work infringing on the pavement or shoulders shall comply with applicable standards and requirements regarding traffic control devices. Failure to comply will be cause for revocation or suspension of the permit. Any closure of lanes or shoulders shall be described in terms of location, duration, time of day, etc. Such work shall not begin until all traffic control devices are in place.
- [9] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage.
- [10] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate, Form No. 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 within the limits of the highway so as to interfere with the travel over the road.
- [12] All pole lines are to be built in accordance with Rule 4901:3-1-08 of Ohio Administrative Code promulgated and enforced by the Public Utilities Commission of Ohio.
- [13] The permittee shall comply with the Air Pollution requirement of Rule 3745-17-08 of the Ohio Administrative Code 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 shall in any way alter the permittee's obligations under this permit.
- [15] The permittee(s) for herself/himself/themselves/itself, her/his/their/its personal representative, and her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does hereby covenant and agree that:
- (1) No person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of the above described property.
 - (2) In the construction of any improvements on, over, or under the above described property and the furnishing of services thereon, no person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination.
 - (3) The above described property shall be used in a manner that at all times is in compliance with all other requirements imposed by or pursuant to Title 49, code of Federal Regulation, U.S. DOT, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the U.S. DOT - Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.
 - (4) In the event that this instrument grants a lease, licence, or permit and any of the above nondiscrimination covenants is breached, the State of Ohio, Department of Transportation, shall have the unfettered right to terminate the lease, licence or permit and to re-enter and repossess the above-described property and hold the same as if said lease, licence or permit had never been made or issued.
 - (5) In the event that this instrument grants a fee or easement interest and any of the above nondiscrimination covenants is breached, the State of Ohio, Department of Transportation, shall have the unfettered right to re-enter the above described property, and said property will thereupon revert to and vest in and become the absolute property of the State of Ohio and its successors and assigns for the use and benefit of the Department of Transportation.
 - (6) In the event that this instrument grants a lease, fee or easement interest, all of the foregoing nondiscrimination covenants shall be and are covenants running with the land.

MR 678

Permit No. 9010502

State of Ohio
Department of Transportation
Permit Inspection Certificate

Office Use Only		
County: Highland	Route:	050
Logpoint: 23.640	to	
AccCat:		

Inspector Listed: Permits Coordinator- Brandon Garrison Phone: 7407748875

Issued to:

Name: South Central Power Company Attn: bjohnson@southcentralpowercomp
Address: 2780 Coonpath Road NE Phone: 6148374351
Lancaster OH 43130

Description of Work: ...to be completed by: 12/31/2020

ACCESS MANAGEMENT COMMITTEE APPROVED Installing 15" pipes and constructing 2 commercial drives as per attached drawings and provisions. Permittee to contact ODOT prior to removing/installing new strain pole for specification/inspection requirements.

Provisions:

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Work completed on time and as described?

_____ Yes _____ No

Variations from work described:

Inspectors Comments:

Work approved?

_____ Yes _____ No Inspector's Signature: _____ Date: _____

*If work is not approved, so advise person in charge at worksite or at issued address. Record the person in charge's name, relationship to permitted, date notified, and instructions given.

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Work completed on time and as described?

_____ Yes _____ No

Variations from work described:

Inspectors Comments:

Work approved?

_____ Yes _____ No Inspector's Signature: _____ Date: _____

*If work is not approved, so advise person in charge at worksite or at issued address. Record the person in charge's name, relationship to permitted, date notified, and instructions given.

1. MR 505
App No _____

State of Ohio
Department of Transportation
Permit Application
See Reverse side for additional requirements

Office Use Only	
County/ Jurisdiction	<u>Hig</u>
Rte	<u>50</u> LogPt <u>23.64</u>
AccCat	_____

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

Name SOUTH CENTRAL POWER COMPANY
Address 2780 COONPATH ROAD NE City LANCASTER State OH
Zip 43130 Phone (614) 837-4351 Other (Fax, E-mail) bjohnson@southcentralpower.com

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

[3] Briefly describe work to be performed. (Attach plans and see Instructions.)
NEW STORAGE YARD AND BUILDING, WHICH INCLUDES OFFICES, WAREHOUSE, AND VEHICLE MAINTENANCE.

Traffic Plan _____

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

In HIGHLAND County (along, across) State Route 50, _____ miles or _____ feet
North East West South of INTERSECTION OF HWY 50 & HWY 753 on the North East West South side of the road.
Work to commence on April 1, 2020 and will require 365 days to complete

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

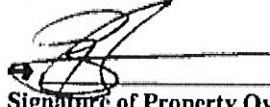
[6] Prior to any excavation in the highway right-of-way, the Ohio Utilities Protection Service (OUPS) must be contacted in accordance with ORC Section 3781.25 to 3781.32. OUPS can be reached at 1-800-362-2764. A call must be made to OGPUPS at 1-800-925-0988.

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

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

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

SIGN and
PRINT here


Signature of Property Owner or Agent for Owner
Date 12/23/2019
Day time Phone 740.503.7155

Office use only	
Date Received	<u>2-5-2020</u>
By	<u>B. GARRISON</u>
Date Accepted	_____
By	_____

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**. You will find this form at <http://www.dot.state.oh.us/planning/Corridor/AccessMgmt/Manual> on the web.

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 24"x 36."

- (A) Map or plat showing property location, property lines, amount of frontage on state highway and on other abutting public roads, if any;
- (B) Any existing access or easements of access on the property;
- (C) Highway and driveway plan profile;
- (D) Location of proposed access with respect to property lines and to the highway; NOTE: The proposed access location should also be physically marked on the property by a stake or other clearly visible means.

- (E) Design and type of construction of the proposed access;
- (F) Drainage plans showing drive culvert/pipe and impacts to the highway right of way;
- (G) Subdivision, zoning, or development plan, if applicable;
- (H) Maps and letters detailing utility locations before and after development in and along the right of way;
- (I) Signing and striping plans;
- (J) Traffic data and traffic control plan;
- (K) Proof of liability insurance;
- (L) Performance Bond, if required

Commercial Development

3. If you are requesting a permit for Commercial Development, complete the following. Applicants seeking permits for 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.

(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 Units	
Type of Units		Number of Units	

(3b) If the proposed access will serve business commercial or industrial development, what types and number of businesses are in the proposed development and what is floor area square footage of each?

Type of Business	ELECTRIC COOPERATIVE	Square Footage	31,800
Type of Business		Square Footage	

(3c) Number of vehicles using the access. Indicate if estimates are x Peak hour = 49 or Average daily volumes = .

Number of Passenger Cars: 29	Number of Multi Units: 20	Total All Vehicles: 49
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(3d) Consulting Firm: CT CONSULTANTS

Contact Name: JIM SHUMATE

Phone Number: 859-525-0544

Name of Contractor: CORNA KOKOSING

Contact Name: TED LUC

Phone Number: 614-212-5804

Beautification Permit

4. If you are applying for Beautification Permit, complete the following. Please submit proof of insurance.

Insurer's Name _____ Address _____ Phone () _____
 Number of adults (over 18) _____ under 18 _____ Total people _____

INDEX TO SHEETS

TITLE & EXISTING CONDITIONS SHEET	C1
LAYOUT & UTILITY PLAN	C2
OVERALL GRADING	C3
DETAILED GRADING	C4
SWPPP DETAILS	C5
SITE DETAILS	C6 - C7
STRAIN POLE AND SIGN RELOCATION	C8

OWNER / OPERATOR
SOUTH CENTRAL POWER
2780 COONPATH ROAD NE
LANCASTER, OH 43130



EXISTING USE: AGRICULTURAL
PROPOSED USE: ELECTRIC COOP SERVICE CENTER

THE EXISTING UTILITY LOCATIONS ON THIS PLAN ARE NOT NECESSARILY ALL OF THE UTILITIES, NOR THE ACTUAL LOCATION. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF ALL CONSTRUCTION OR EARTH MOVING OPERATIONS. THE ENGINEER SHALL BE NOTIFIED PRIOR TO BEGINNING CONSTRUCTION OF ANY POTENTIAL CONFLICT. CONTACT UTILITY PROTECTION SERVICE PRIOR TO CONSTRUCTION.

ODOT STANDARD DRAWINGS

THE LATEST EDITION OF THE ODOT STANDARD DRAWINGS AND THE HIGHLAND COUNTY ENGINEERING DEPARTMENT STANDARD DRAWINGS ARE HEREBY PART OF THESE PLANS.

ODOT SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION AND THE HIGHLAND COUNTY ENGINEERS' OFFICE REGULATIONS, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO, SHALL GOVERN THIS PROJECT.

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

SYMBOL LEGEND

WAT	WAT	EXISTING WATER LINE
STM	STM	EXISTING STORM LINE
EX. R.W.		EXISTING RIGHT-OF-WAY
		EXISTING PROPERTY LINE
		EXISTING BASEMENT LINE
		EXISTING CONTOURS - MAJOR
		EXISTING CONTOURS - MINOR
X	X	EXISTING FENCE - GENERAL
□	□	EXISTING FENCE - WOOD
		EXISTING ROAD
COMM-UG	COMM-UG	EXISTING COMM LINE - UG
ELEC-OH	ELEC-OH	EXISTING ELECTRIC SERVICE - OH
TRAF-OH	TRAF-OH	EXISTING TRAFFIC LINE - OH
X	X	PROPOSED PROPERTY LINE
WS	WS	PROPOSED FENCE - GENERAL
SAN	SAN	PROPOSED WATER SERVICE
ELEC-UG	ELEC-UG	PROPOSED SANITARY LINE
RD	RD	PROPOSED UG TELECOMMUNICATIONS AND ELECTRIC LINE
STM	STM	PROPOSED STORM ROOF DRAIN
SF	SF	PROPOSED STORM LINE
SF	SF	PROPOSED SILT FENCE
TR		PROP. ELECTRIC TRANSFORMER
♿		PROP. SYMBOL - HANDICAP
■		PROP. CATCH BASIN - 2X2
■		PROP. CATCH BASIN - 3X3
⊠		PROP. WATER METER

HATCH LEGEND

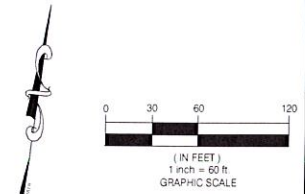
□	CONCRETE PAVEMENT. SEE DETAIL SHEET C6
□	STANDARD ASPHALT PAVEMENT. SEE DETAIL SHEET C6
□	HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL SHEET C6
□	STONE PAVEMENT. SEE DETAIL SHEET C6
□	CONCRETE DUMPSTER PAD AND U.S. 50 APRONS - SEE DETAIL SHEET C6

VICINITY MAP



GENERAL NOTES

- THE EXISTING UTILITY LOCATIONS ON THIS PLAN ARE NOT NECESSARILY ALL OF THE UTILITIES, NOR THE ACTUAL LOCATION. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF ALL CONSTRUCTION OR EARTH MOVING OPERATIONS. THE ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICT. CONTACT UTILITY PROTECTION SERVICE PRIOR TO CONSTRUCTION.
- ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
- STORM SEWER PIPE MATERIAL SHALL BE ADS HDPE PIPE ASHTO M24 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON THE PLANS
- ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO FINISHED GRADE.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT / FACE OF CURB UNLESS OTHERWISE NOTED.
- STANDARD PARKING SPACES ARE 9' X 18' UNLESS OTHERWISE DIMENSIONED.
- FILL AREAS UNDER PAVEMENT SHALL BE COMPACTED AS SPECIFIED BY GEOTECHNICAL REPORT
- PARKING LOT STRIPING SHALL BE 4' WIDE WHITE HIGHWAY-TYPE STRIPING APPLIED IN ACCORDANCE WITH THE PLAN.
- ALL RADII ARE 5.0' UNLESS OTHERWISE NOTED.
- NO EXISTING BUILDINGS ON SITE
- WALKS AND CONCRETE PAVING TO RECEIVE BROOM BRUSH. CURBS TO RECEIVE RUBBED FINISH.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE HIGHLAND COUNTY ENGINEERS' OFFICE CONSTRUCTION STANDARDS AND THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.
- ALL GRADED AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE IN ACCORDANCE WITH STATE HIGHWAY ITEM 659
- EROSION CONTROL WILL BE ACCOMPLISHED BY STRATEGICALLY PLACING STRAW BALES AND/OR SILT FENCES IN SWALES AND RUNOFF AREAS, SUCH BALES OR SILT FENCES TO BE REPLACED AND EXPANDED AS NECESSARY TO AFFORD NECESSARY CONTROL.
- STAKED STRAW BALES AND SILT FENCES TO BE ENTRENCHED 4-6 INCHES BELOW GRADE.
- ALL EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY STRIPPING OF VEGETATION OR EXCAVATION.
- REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS AND DOOR LOCATIONS.
- ALL EARTHWORK AND SITE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY TERRACON DATED DEC. 11, 2019.
- CONCRETE WALKS SHALL PROVIDE CONTROL JOINTS SPACED AT NO MORE THAN 5' ON CENTER, UNLESS NOTED OTHERWISE PROVIDE 4000 PSI CONCRETE, AIR ENTRAINED, 4" THICK. PROVIDE 4" ODOT ITEM 304 AGGREGATE BASE ON COMPACTED SUBGRADE TO 100% STANDARD PROCTOR.
- ITEMS THAT PERTAIN TO WATER AND SANITARY SEWER AND STORM SEWER SERVICE CONSTRUCTION WILL REMAIN UNDER SPECIFICATIONS OF THE HIGHLAND COUNTY WATER CO., HIGHLAND COUNTY HEALTH DEPT., THE HIGHLAND COUNTY ENGINEER'S OFFICE RESPECTIVELY, AND THE OHIO PLUMBING CODE.
- MINIMUM 10' HORIZONTAL AND 18" VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE WATER SERVICE AND SANITARY SEWER
- SANITARY SEWER PIPE: PVC SDR 35 ASTM D-3334
- ROOF DRAIN COLLECTOR PIPE: PVC SDR 35 OR SCHEDULE 40
- 48 HOURS PRIOR TO DIGGING CONTACT THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A BALANCED SITE INCLUDING THE IMPORT OR EXPORT OF MATERIAL IF REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL REMOVED ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AS NEEDED FOR THE CONSTRUCTION OF THE PROJECT.
- ALL MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD)" AND THE HIGHLAND COUNTY PUBLIC WORKS DEPARTMENT AND O.D.O.T. ITEM 614 (MAINTAINING TRAFFIC) OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS - LATEST EDITION - SEE DETAIL SHEET 7



ZONING / SITE STATISTICS

CURRENT ZONING	NONE
FRONT YARD SETBACK	NONE
SIDE YARD SETBACK	NONE
REAR YARD SETBACK	NONE
SITE AREA	9.99ac
TYP. PARKING STALL	9'x18'
DRIVEWAY AISLE WIDTH	24'

UTILITY COMPANIES

WATER:
HIGHLAND COUNTY WATER COMPANY, INC.
6695 US 50, HILLSBORO, OHIO 45133
937-393-4281

ELECTRIC:
SOUTH CENTRAL POWER
2780 COONPATH ROAD NE, LANCASTER, OH
43130

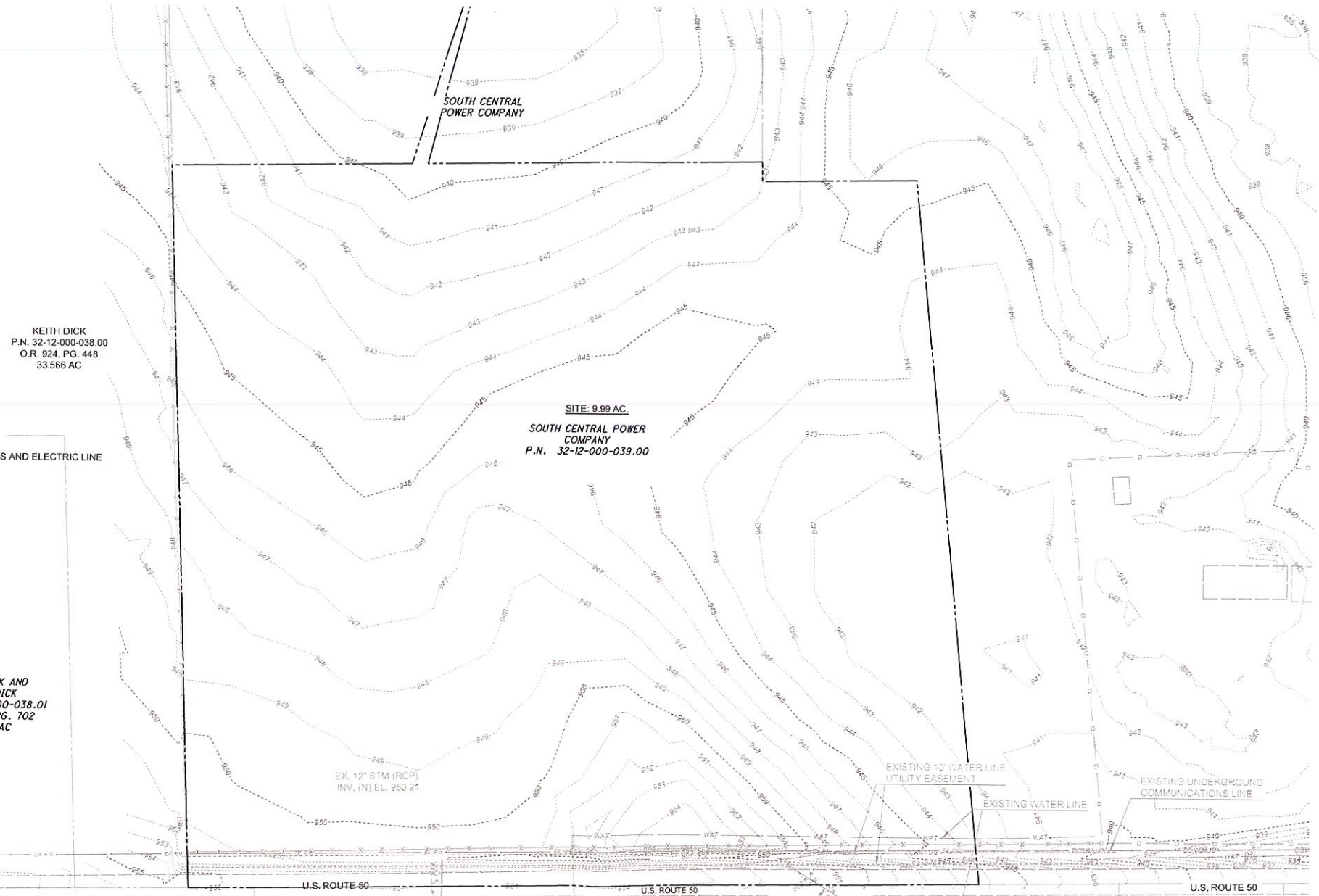
TELEPHONE:
OHIO BELL TELEPHONE COMPANY
3233 WOODMAN DRIVE
DAYTON, OH 45420

CABLE:
CHARTER COMMUNICATIONS

GAS: NONE

SANITARY SEWER: NONE

ON SITE SANITARY SEWER TREATMENT:
HIGHLAND COUNTY HEALTH DEPARTMENT



KEITH DICK
P.N. 32-12-000-038.00
O.R. 924, PG. 448
33.566 AC

SITE: 9.99 AC
SOUTH CENTRAL POWER COMPANY
P.N. 32-12-000-039.00

KEITH DICK AND
PATSI DICK
P.N. 32-12-000-038.01
O.R. 180, PG. 702
2.764 AC

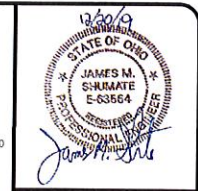
DAVID L. AND
TRILA SATTERFIELD
P.N. 32-12-000-375.01
O.R. 726, PG. 616
61.28 AC

JOHN M. SR. AND
ASHLEY NICHOLS
P.N. 32-12-000-375.02
O.R. 789, PG. 968
5.840 AC

JOHN M. SR. AND
ASHLEY NICHOLS
P.N. 32-12-000-375.02
O.R. 789, PG. 968
5.840 AC

JOHN M. SR. AND
ASHLEY NICHOLS
P.N. 32-12-000-375.02
O.R. 789, PG. 968
5.840 AC

DEBORA JO AND
RAYMOND R. ROBINSON
P.N. 32-12-000-349.00
0.777 AC



NO.	REVISION	DATE
1	BIDDING AND PERMIT ISSUE	12-23-2019
2	REVISED ENTRANCE CULVERT PER ODOT COMMENT (12-23-2019)	12-23-2019

SOUTH CENTRAL POWER SERVICE CENTER
- US50, PAINT TOWNSHIP, HIGHLAND COUNTY, OH -
EXISTING CONDITIONS

PROJECT NO.	190822
DISCIPLINE	CIVIL
SHEET NAME	C1
SHEET	1
OF	8

12/23/2019 10:45:00 AM C:\Users\jms\OneDrive\Documents\32-12-000-038\32-12-000-038-01-C1-EXISTING CONDITIONS.dwg 23/201 - 10/11/2019 10:45:00 AM

CONSTRUCTION NOTES

- 1 CONCRETE SIDEWALK WITH INTEGRAL CURB - SEE DETAIL SHEET C6
- 2 TRUCK DOCK / DOCK WALLS - SEE DETAILS ON ARCHITECTURAL PLANS
- 3 HANDICAP PAVEMENT SYMBOL AND SIGN - SEE DETAIL SHEET C6
- 4 6" VERTICAL CONCRETE CURB - SEE DETAIL SHEET C6
- 5 MONUMENT SIGN PER ZONING CODE. SEE SIGNAGE PLANS FOR DETAILS.
- 6 CONCRETE FLUSH WITH ASPHALT - SEE DETAIL GRADING PLAN
- 7 12" ROOF DRAIN COLLECTOR - MIN 1% SLOPE
- 8 CONSTRUCT UNDERGROUND ELECTRIC AND COMMUNICATION SERVICES FROM UTILITY MAIN TO BUILDING. COORDINATE ACTUAL REQUIREMENTS AND LOCATIONS WITH MEP DRAWINGS AND UTILITY OWNERS. ACTUAL CONNECTION TO EXISTING UTILITY MAIN UNKNOWN. CONTRACTOR TO CONTACT APPROPRIATE UTILITY OWNERS AND COORDINATE UTILITY CONNECTION / EXTENSION.
- 9 PROPOSED WATER SERVICE AND WATER METER TO BE CONNECTED TO EXISTING WATER MAIN PER HIGHLAND COUNTY WATER COMPANY REQUIREMENTS AND OHIO PLUMBING CODE. CONSTRUCT WATER SERVICE FROM THE MAIN TO THE BUILDING. SEE MEP PLANS FOR ACTUAL SIZE AND DETAILS.
- 10 OUTFALL CONTROL STRUCTURE - SEE DETAIL SHEET C6
- 11 CONSTRUCT CONCRETE PAD FOR ELECTRIC TRANSFORMER. COORDINATE LOCATION AND CONNECTION TO BUILDING WITH MECHANICAL PLANS AND UTILITY OWNER. CONSTRUCT PER UTILITY OWNER REQUIREMENTS.
- 12 CONSTRUCT CONCRETE PAD FOR GENERATOR. COORDINATE LOCATION AND CONNECTION TO BUILDING WITH MECHANICAL PLANS OR UTILITY OWNER.
- 13 CONSTRUCT 8" P.V.C. SDR 35 SANITARY SEWER SERVICE @ 2% MIN. SLOPE FROM THE BUILDING TO THE OIL WATER SEPARATOR AND THE HOLDING TANK. COORDINATE ELEVATIONS WITH M.E.P. PLANS AND ROOF DRAIN CROSSING. SEE M.E.P. DRAWINGS FOR HOLDING TANK DETAILS.
- 14 CONTRACTOR TO PROVIDE DESIGN / BUILD (TURNKEY) SEPTIC SYSTEM, WHICH MAY INCLUDE A TRADITIONAL SYSTEM WITH SEPTIC TANK, DISTRIBUTION BOX, DOSING CHAMBER, AND DRAINFIELD, OR MOUND SYSTEM, OR PACKAGE WASTEWATER TREATMENT PLANT, AS REQUIRED OR ALLOWED. IT IS THE INTENT OF PROJECT TO HAVE CONTRACTOR PROVIDE A COMPLETE AND FUNCTIONAL SEPTIC SYSTEM THAT IS EPA COMPLIANT, BASED ON LOCAL KNOWLEDGE OF THE AREA. FINAL LOCATION TO BE COORDINATED WITH THE OWNER.
- 15 SIGNAL POLE RELOCATION PER ODOT REQUIREMENTS SEE TRAFFIC SIGNAL PLAN SHEET C8 FOR DETAILS.
- 16 EXISTING ROADWAY SIGNAGE RELOCATION PER ODOT REQUIREMENTS SEE TRAFFIC SIGNAL PLAN SHEET C8 FOR DETAILS.
- 17 CONCRETE PAVED CHANNEL IN DETENTION BASIN - SEE PLAN SHEET C6 FOR DETAILS.
- 18 CONSTRUCT FORCE MAIN FROM THE SEWAGE LIFT STATION TO THE ON SITE SEWAGE TREATMENT SYSTEM. SIZE TO BE DETERMINED BY THE MEP CONSULTANT. CONSTRUCT PER HIGHLAND COUNTY HEALTH DEPARTMENT AND OHIO PLUMBING CODE REQUIREMENTS.
- 19 BOLLARD - SEE DETAIL SHT 7
- 20 INSTALL TIDEFLEX CHECKMATE IN LINE CHECK VALVE OR APPROVED EQUAL TO PREVENT STORM WATER FROM BACKING UP INTO THE DOCK (CONNECT TO ROOF DRAIN COLLECTOR)
- 21 END CURB 10 FT. FROM U.S. 50 EDGE OF PAVEMENT
- 22 FOR SLAB DIMENSIONS AND DETAILS FOR MECHANICAL EQUIPMENT, DETAILS OF OIL / WATER SEPARATOR AND PUMP STATION AND ELECTRICAL CONNECTIONS SEE M.E.P. PLANS
- 23 MOTORIZED GATE - COORDINATE WITH M.E.P. PLANS AND OWNER
- 24 DOWNSPOUT LOCATION
- 25 ACTUAL LOCATION OF TELECOMMUNICATION LINES NOT KNOWN. CONTRACTOR TO EXPOSE LINES PRIOR TO CULVERT CONSTRUCTION AND NOTIFY ENGINEER OF POTENTIAL CONFLICTS.

NOTE: SITE LIGHTING NOT SHOWN. COORDINATE LOCATIONS OF POLES AND CONDUIT WITH SITE ELECTRICAL PLAN BY M.E.P. CONSULTANT.

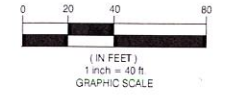
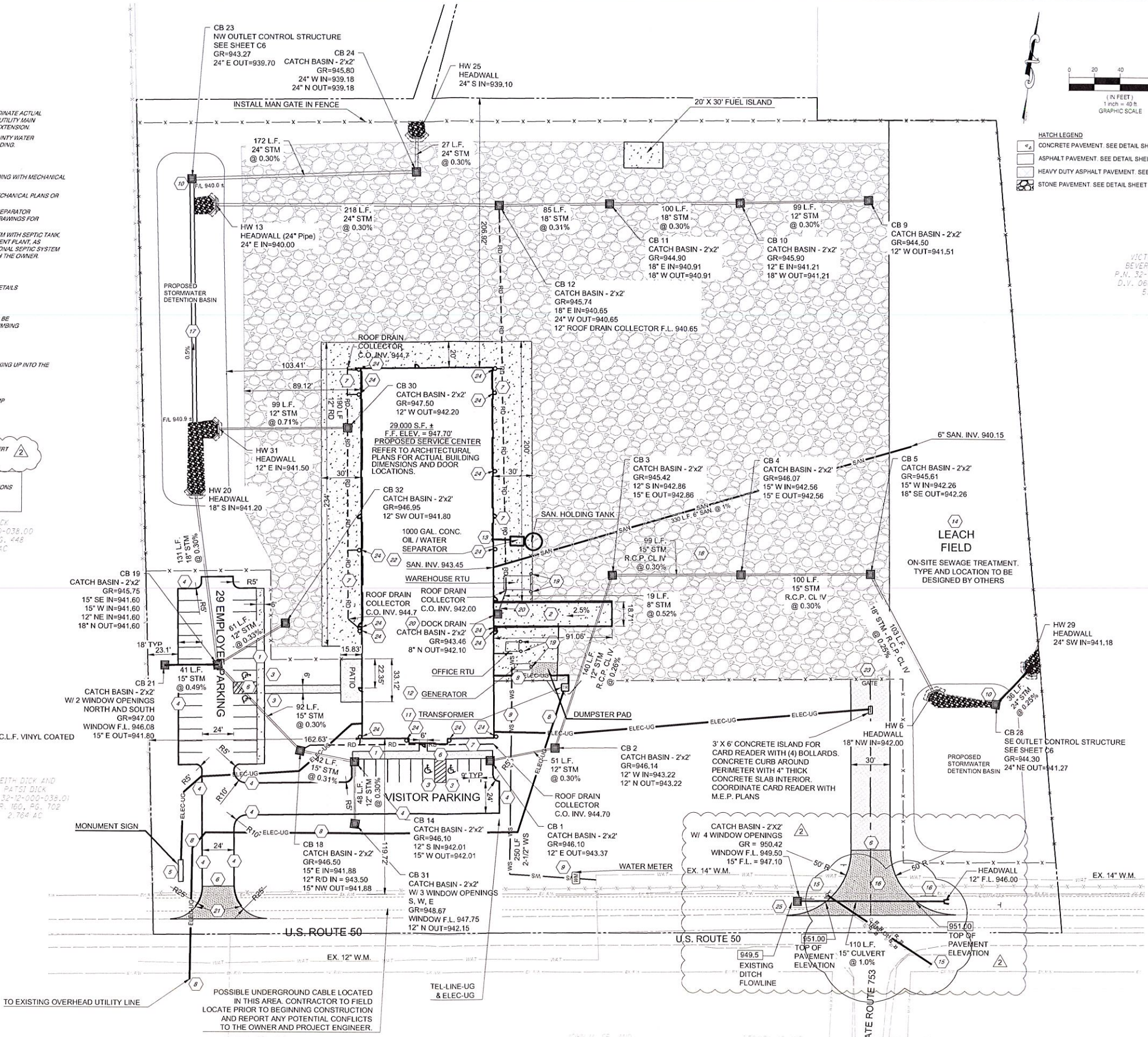
KEITH DICK
P.N. 32-12-000-038.00
O.R. 924, PG. 448
33,566 AC

SYMBOL LEGEND

- WAT - EXISTING WATER LINE
- STM - EXISTING STORM LINE
- EXISTING BUILDING OUTLINES
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT LINE
- EXISTING CONTOURS - MAJOR
- EXISTING CONTOURS - MINOR
- EXISTING FENCE - GENERAL
- EXISTING FENCE - WOOD
- EXISTING ROAD
- EXISTING COMM. LINE - UG
- EXISTING ELECTRIC SERVICE - OH
- EXISTING TRAFFIC LINE - OH
- PROPOSED PROPERTY LINE
- PROPOSED FENCE - GENERAL - 7' HIGH C.L.F. VINYL COATED
- PROPOSED WATER SERVICE
- PROPOSED SANITARY LINE
- PROPOSED ELECTRIC LINE - UG
- PROPOSED STORM ROOF DRAIN
- PROPOSED STORM LINE
- PROPOSED SILT FENCE

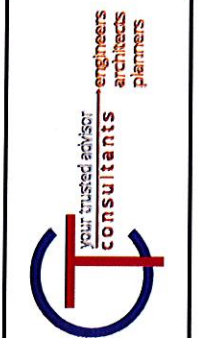
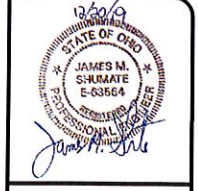
- 11 ELECTRIC TRANSFORMER
- ♿ SYMBOL - HANDICAP
- CB CATCH BASIN - 2X2
- CB CATCH BASIN - 3X3
- WM WATER METER

- HATCH LEGEND**
- CONCRETE PAVEMENT AROUND BUILDING. SEE DETAIL SHEET C6
 - ASPHALT PAVEMENT. SEE DETAIL SHEET C6
 - HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL SHEET C6
 - STONE PAVEMENT. SEE DETAIL SHEET C6
 - CONCRETE SIDEWALK OR INTEGRAL CURB AND WALK - SEE DETAIL SHEET C6
 - CONCRETE DUMPSTER PAD AND U.S. 50 APRONS - SEE DETAIL SHEET C6



- HATCH LEGEND**
- CONCRETE PAVEMENT. SEE DETAIL SHEET C6
 - ASPHALT PAVEMENT. SEE DETAIL SHEET C6
 - HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL SHEET C6
 - STONE PAVEMENT. SEE DETAIL SHEET C6

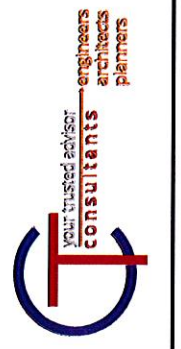
VICTOR E. AND
SEVERLY J. WEST
P.N. 32-12-000-039.00
D.V. 0680, PG. 0675
5,168 AC



NO	REVISION	DATE
1	BIDDING AND PERMIT ISSUE	12-23-2019
2	REVISED ENTRANCE CULVERT PER ODOT COMMENT #8-3020	

SOUTH CENTRAL POWER SERVICE CENTER
- US50, PAINT TOWNSHIP, HIGHLAND COUNTY, OH -
LAYOUT & UTILITY PLAN

PROJECT NO.	190822
DISCIPLINE	CIVIL
SHEET NAME	C2
SHEET	2
OF	8

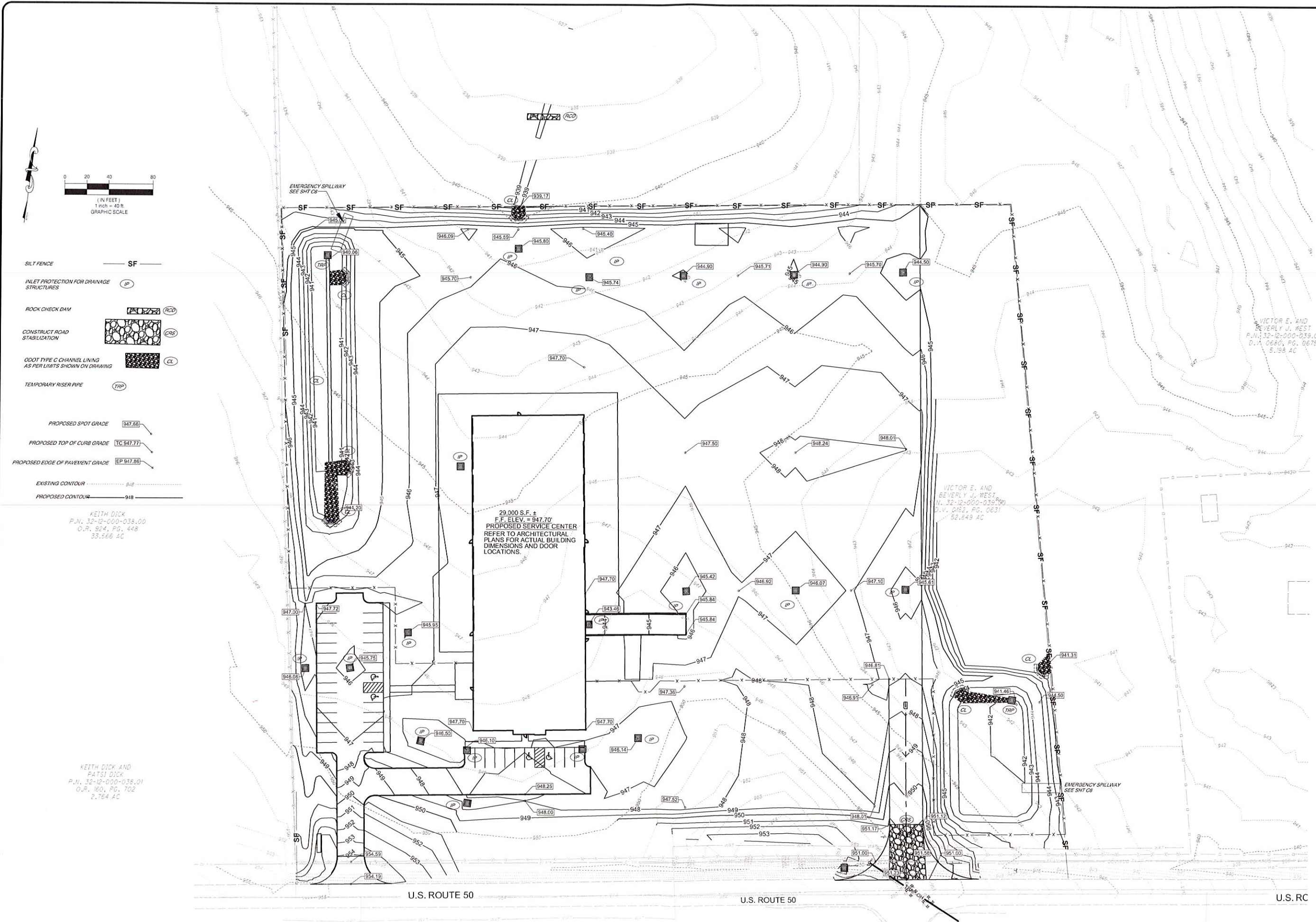


NO	REVISION	DATE
1	BIDDING AND PERMIT ISSUE	12-23-2019
2	REVISED ENTRANCE CULVERT PER ODOT COMMENT#8-2020	

ISSUED FOR:	REVIEW	NO	REVISION	DATE
KEITH DICK AND PATSI DICK P.N. 32-12-000-038.01 O.R. 160, PG. 102 2.764 AC	12-23-2019	1	BIDDING AND PERMIT ISSUE	12-23-2019
	1"-60"	2	REVISED ENTRANCE CULVERT PER ODOT COMMENT#8-2020	
	DESIGNED BY:	REAT		
	DRAWN BY:	REAT		
	CHECKED BY:	JSHU		

PROJECT NO.		190822
DISCIPLINE		CIVIL
SHEET NAME		C3
SHEET	OF	
3	8	

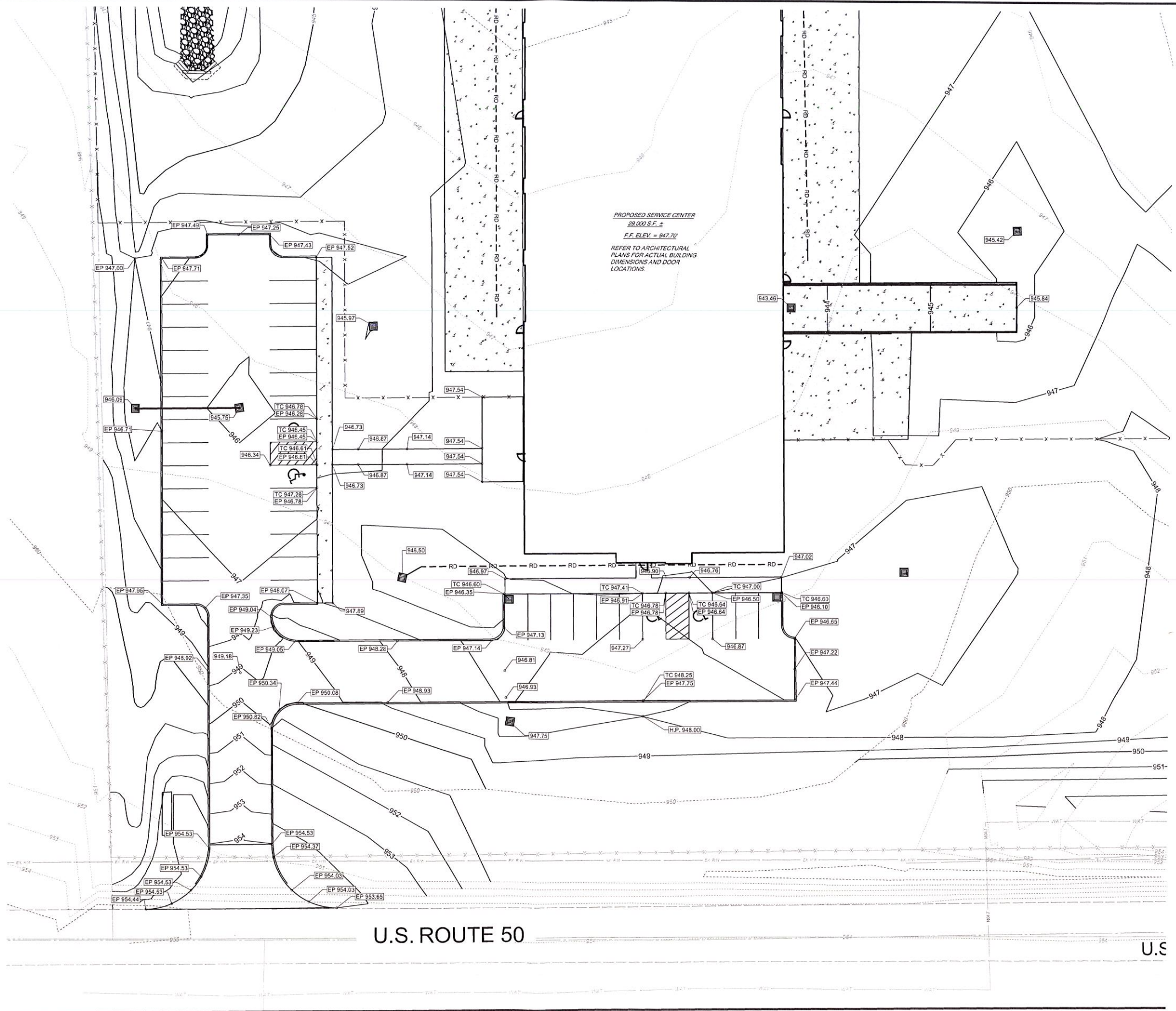
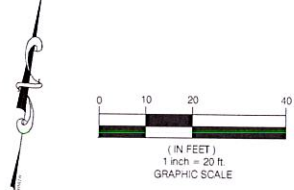
SOUTH CENTRAL POWER SERVICE CENTER
 - US50, PAINT TOWNSHIP, HIGHLAND COUNTY, OH -
OVERALL GRADING PLAN



KEITH DICK
 P.N. 32-12-000-038.00
 O.R. 924, PG. 448
 33.566 AC

KEITH DICK AND
 PATSI DICK
 P.N. 32-12-000-038.01
 O.R. 160, PG. 102
 2.764 AC

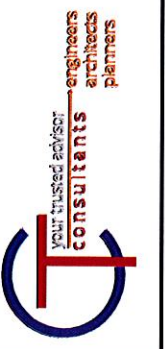
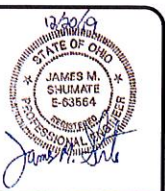
VICTOR E. AND
 BEVERLY J. WEST
 P.N. 32-12-000-039.01
 O.R. 052, PG. 0675
 5.198 AC



PROPOSED SERVICE CENTER
29,000 S.F. ±
F.F. ELEV. = 947.70
REFER TO ARCHITECTURAL
PLANS FOR ACTUAL BUILDING
DIMENSIONS AND DOOR
LOCATIONS.

U.S. ROUTE 50

U.S.



NO.	REVISION	DATE
1	BIDDING AND PERMIT ISSUE	12-23-2019
2	REVISED ENTRANCE CULVERT PER ODOT COMMENTS	01/08/2020

**SOUTH CENTRAL POWER
SERVICE CENTER**
- US50, PAINT TOWNSHIP, HIGHLAND COUNTY, OH -

DETAILED GRADING PLAN

PROJECT NO.	190822
DISCIPLINE	CIVIL
SHEET NAME	C4
SHEET	4
OF	8

EROSION AND SEDIMENT CONTROL STANDARD

GENERAL NOTES

A preconstruction meeting with the City of Wilmington Engineering and Clinton County Soil and Water Department must be held before soil is disturbed.

EROSION AND SEDIMENT CONTROLS

VEGETATIVE PRACTICES

Such practices may include: temporary seeding, permanent seeding, mulching, matting, soil stabilization, vegetative buffer strips, phasing and protection of trees. The contractor shall initiate appropriate vegetative practices on all disturbed areas within seven (7) days if they are to remain dormant (undisturbed) for more than twenty-one (21) days, but less than one (1) year. Permanent or temporary soil stabilization shall be applied to disturbed areas within seven (7) days after final grade is reached on any portion of the site.

STRUCTURAL PRACTICES

Structural practices shall be used to control erosion and top sediment from all sites remaining disturbed for more than fourteen (14) days.

TIMING

Sediment control structures shall be functional throughout earth disturbing activity. Sediment basin and perimeter sediment barriers shall be implemented as the first step of grading and within seven (7) days from the start of grubbing. They shall continue to function until the upstage development area is reinstalled.

SEDIMENT BARRIERS

Sheet flow runoff from denuded areas shall be intercepted by sediment barriers. Sediment barriers, such as sediment fences or diversions directing runoff to settling facilities, shall protect adjacent properties and water resources from sediment transported by sheet flow. Erosion and sediment control practices used to satisfy the conditions of this plan shall meet the standards and specifications in the current edition of Water Management and Sediment Control in Urbanized Areas (Soil Conservation Service) and/or Wilmington or Clinton County Standards.

WASTE DISPOSAL

No solid or liquid waste, including building materials, shall be discharged in storm water runoff. Off-site vehicle tracking of sediments shall be minimized. The contractor shall ensure and demonstrate compliance with applicable State or local waste disposal, sanitary sewer or septic system regulations.

MAINTENANCE

All temporary and permanent control practices shall be maintained and repaired as needed to ensure continued performance of their intended function.

SEDIMENT BASINS

Stormwater runoff containing dangerous amounts of sediment should pass through a sediment basin or other suitable sediment trapping facility.

VEGETATIVE PRACTICES

PRESERVING EXISTING VEGETATION

Whenever possible, preserve existing trees, shrubs and other vegetation. To prevent root damage, do not grade, place soil piles, or park vehicles near trees marked for preservation. Place plastic mesh or snow fence barriers around trees to protect the area below their branches.

REVEGETATION

Seed, sod or mulch bare soil as soon as possible.

If construction is completed after October 31, seeding or sodding may be delayed. Applying mulch or temporary seed (such as rye or winter wheat) is recommended if weather permits. Straw bales or silt fences must be maintained until final seeding or sodding is completed in spring March 15 - May 31.

SEEDING AND MULCHING

Spread 4 to 6 inches of topsoil. Fertilize according to soil test or apply 10 lb./1000 sq. ft. of 20-10-10 fertilizer. See Table 1 for appropriate mix for the site (see Table 1). Rove lightly to cover seed with 1/4 inch of soil. Roll lightly. Mulch with straw (70-90 lb.) or one bale per 1000 sq. ft. Anchor mulch by puncturing 2 inches into the soil with a dull, weighted disk or by using netting or other measures on steep slopes or windy areas. Water gently every day or two to keep soil moist. Less watering is needed once grass is 2 inches tall.

Grass	Percent by Weight	
	Sunny Site	Shady Site
Kentucky bluegrass	65%	15%
Fine fescue	20%	70%
Perennial ryegrass	15%	15%

Seeding rate (lb./1000 sq. ft.)	3-4	4-5
Table 1		

SODDING

Spread 4 to 6 inches of topsoil. Fertilize according to soil test or apply 10 lb./1000 sq. ft. of 20-10-10 fertilizer. Lay sods in appropriate mix for the site (see Table 1). On slopes, lay sod starting at the bottom and work toward the top. Peg each piece down in several places. Light watering should wet soil 8 inches deep (or until water soaks 1 inch deep in a straight sided container). Then water lightly every day or two for 2 weeks.

SEDIMENT BARRIERS

SOIL PILES

Locate away from any downspout, street, driveway, stream, lake, wetland, ditch or drainage way. Temporary seed such as annual rye is recommended for topsoil piles. Surround with straw bales or silt fence.

TEMPORARY SUBDIVISION OR INDUSTRIAL SITE DRIVEWAY

Install drainage pipe if required by the City Engineer. The sub-base may require undercutting and compaction. The dimensions are a minimum of 20 ft. x 100 ft. depending on the estimated use and site conditions. The base shall then be covered with a 2" layer of compacted material and then covered with 6" of #2 crushed limestone (NO SLAG). The temporary driveway shall be maintained by the contractor on-site, and the stone shall be replaced upon request of the City Engineer or his inspector.

TEMPORARY GRAVEL CONSTRUCTION PARKING AREA

Parking area for construction personnel and visitors is to be placed in an area to the side of the entrance driveway. Stabilize soil, cover with a geo-textile mat and 6" of crushed stone and compact. The lot shall be large enough to accommodate all construction employees and 4 visitor spaces.

TEMPORARY WASHING AREA

A drainage pit shall be established and drain pipe installed from the wash point. The wash point shall be elevated higher than the temporary entrance driveway. The wash pan shall be based with geo-textile material for strength and to prevent mud from contaminating the stone. The next layer shall be based with 1" of stone, then covered with 1" to 1 1/2" of crushed limestone. Water may be used from any available source that does not contaminate water sources.

TEMPORARY RESIDENTIAL DRIVEWAY

Install drainage pipe, if required, on the lot. Install a single access drive using 304 stone over a geo-textile material. Lay gravel 6 inches deep and 10 feet wide from the foundation to the street. Maintain throughout construction until driveway is paved. Park all construction vehicles on the street and off of the site.

SEDIMENT CLEANUP

By the end of each work day, sweep or scrape up soil tracked onto the road. By the end of the next work day after a storm, clean up soil washed off-site, and check straw bale and silt fence for damage or sediment buildup.

DOWNSPOUT EXTENDERS

Not required, but highly recommended. Install as soon as gutters and downspouts are completed. Route water to a grassed or paved area. Maintain until a lawn is established.

SILT FENCE (See Figure 2)

Put up before any other work is done. Install on downslope side(s) of site with ends extended up slopes a short distance. Place parallel to the contour of the land to allow water to pond before the fence. Entrench fence 4 inches deep. Stake with 1" stone every 3 feet for silt fence. Leave no gaps between silt fence. Inspect and repair once a week and after every 1/2 inch of rain. Remove sediment if deposits reach half the fence height. Maintain until a lawn is established.

PLANNING CONSIDERATIONS

Storm sewers, which are made operational before their drainage area is stabilized, can convey large amounts of sediment to natural drainage ways. In case of extreme sediment loading, the storm sewer itself may clog and lose a major portion of its capacity. To avoid these problems, it is necessary to prevent sediment from entering the system at the inlets.

This practice contains several types of inlet filters and traps which have different applications, dependent upon site conditions and type of inlet. Other innovative techniques for accomplishing the same purposes are encouraged, but only after careful study of their effectiveness should they be installed.

DESIGN CRITERIA

The drainage area shall be no more than 1 acre. The inlet protection device shall be constructed in a manner that will facilitate cleanout and disposal of trapped sediment and minimize interference with construction activities. The inlet protection devices shall be constructed in such a manner that any resultant ponding of stormwater will not cause inconvenience or damage to adjacent areas or structures. Design criteria, more specific to each particular inlet protection device, will be found with that construction specification.

GEOTECHNICAL MONITORING

The proposed grading plans and the submitted Earthwork Application have been reviewed in accordance with Sections 311 "Geotechnical Performance Standards" and 315 "Geotechnical Monitoring and Maintenance of Geotechnical Earthwork" of the Earthwork Regulations. The project will warrant geotechnical oversight and monitoring by a certified geotechnical engineer. A geotechnical observation contract will be sent to you separately. Please return the signed contract indicating you have retained a professional geotechnical engineer to oversee the project.

EARTHWORK INSPECTIONS

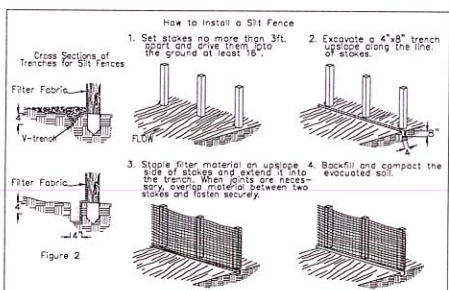
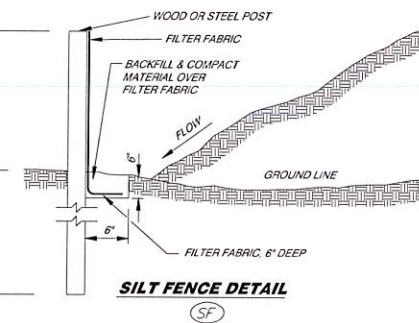
The inspection requirements of the Earthwork Regulations Section 314 and Section 316, and Part III (g) of the CEQA Construction General Permit regarding inspection frequency, inspection personnel qualifications, inspection report, maintenance timeliness and maintenance of inspection records must be observed. The Developer shall provide a copy of the inspection report that will be used.

DEWATERING PROCEDURES

Procedures for dewatering must be provided by the contractor. Discharge from dewatering activities such as dewatering of flooded foundations and utility trenches must pass through a sediment control practice prior to leaving the site. There shall be no turbid discharges to surface waters of the State resulting from dewatering activities.

CONSTRUCTION SEQUENCE

- CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT PERIMETER CONTROLS MEASURES.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- CONSTRUCT DETENTION BASIN AND TEMPORARY RISER PIPE TO BE USED AS A SEDIMENT CONTROL BASIN.
- GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA.
- INSTALL STORM WATER MANAGEMENT SYSTEMS.
- TEMPORARY VEGETATIVE STABILIZATION OF EROSION AND SEDIMENT CONTROL MEASURES.
- GRADING OF ROADS, STREETS, OR PARKING AREAS, ETC.
- INSTALLATION OF ALL UTILITIES.
- SITE CONSTRUCTION.
- FINAL GRADING, STABILIZATION, AND LANDSCAPING.
- REMOVE TEMPORARY RISER PIPE AND ACCUMULATED SEDIMENT IN THE DETENTION BASIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING PROPOSED ROAD GRADES.
- CONSTRUCT PERMANENT WATER QUALITY CONTROL FEATURE.
- REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.



SEDIMENT BASIN

DEFINITION

A temporary barrier or dam constructed across a watercourse or at other suitable location to retain sediment and other waterborne debris.

SCOPE

This standard establishes minimum acceptable quality for the design and construction of temporary sediment basins formed by an embankment, excavation or a combination of embankment and excavation. The standard is limited to sites where:

- Failure of the structure would not result in loss of life; damage to homes; commercial or industrial buildings; damage to highways or railroads or interruption of use or service of private utilities.
- The height of dam is 25 feet or less, as measured from the natural streambed at the centerline of dam to the top of dam.
- The total volume of storage is 150 acre-feet or less.
- The drainage area is 100 acres or less.
- The basin will be removed within a three-year period after construction.

PURPOSE

Temporary sediment basins are used as a means of trapping and storing sediment from eroding areas in order to protect downstream areas from damage resulting from sedimentation and waterborne debris.

CONDITIONS WHERE PRACTICE APPLIES

Temporary sediment basins apply where physical site conditions or other restrictions preclude the installation of erosion control measures to adequately control erosion and sedimentation. It may be used downstream from construction operations which expose areas to erosion. Temporary sediment basins will be removed after the exposed areas are adequately protected against erosion by vegetative or mechanical means.

COMPLIANCE WITH LAWS AND REGULATIONS

Design and construction shall comply with all local laws, ordinances, rules and regulations.

LOCATION

To improve the effectiveness of the basin, it should be located so as to intercept the largest possible amount of runoff from the disturbed area. The best locations are generally low areas and natural drainage ways below disturbed areas. Drainage into the basin can be improved by the use of diversion ditches and ditches. The basin must not be located in a live stream but should be located to trap sediment-laden runoff before it enters the stream. The basin should not be located where its failure would result in the loss of life or in interruption of the use or service of public utilities or roads.

MULTIPLE USE

Sediment basins may be designed as permanent structures to remain in place after construction is completed. Site conditions may make the use of these structures desirable for stormwater detention purposes. Whenever these structures are to become permanent, or if they exceed the size limitations of the design criteria, they must be designed as permanent ponds by a qualified professional engineer. Permanent ponds are beyond the scope of these standards and specifications. The permanent structures must be submitted with construction drawings for review and acceptance by the City Engineer.

MAINTENANCE

Basins shall be checked weekly and cleaned when no longer effective.

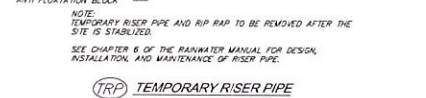
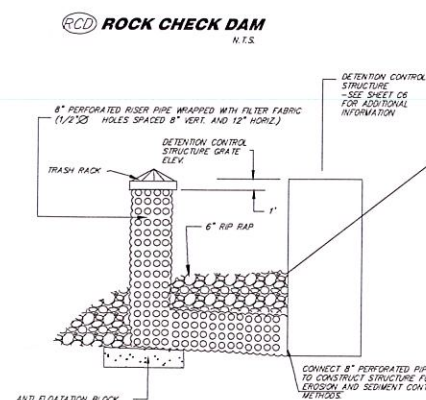
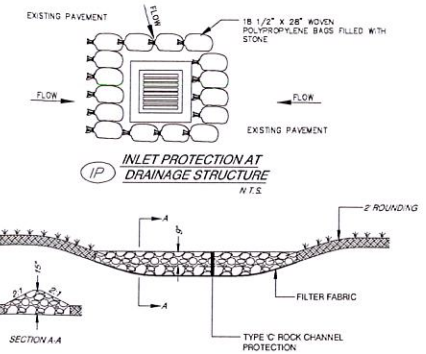
STORM DRAIN INLET PROTECTION

DEFINITION

A sediment filter installed around a storm drain inlet or curb inlet to reduce sediment discharge.

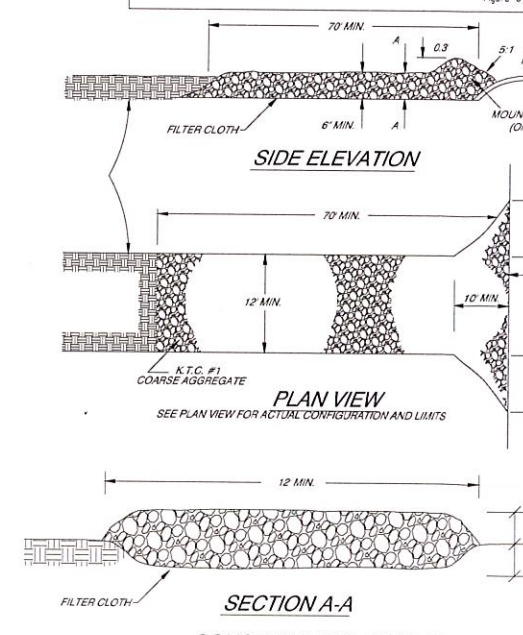
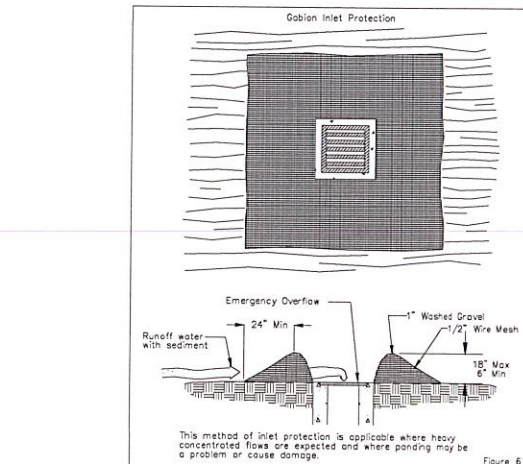
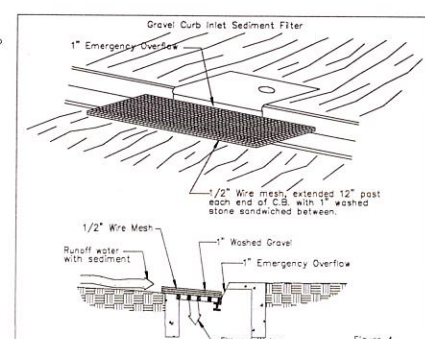
PURPOSE

To prevent sediment from entering the storm discharge structures prior to permanent stabilization of the disturbed drainage area. Different types of structures are applicable to different conditions.



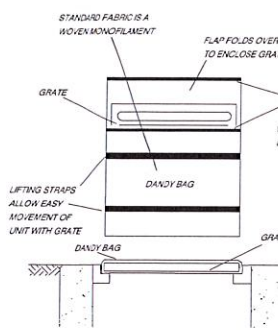
EROSION AND SEDIMENT CONTROL NOTES:

- EROSION PREVENTION AND SEDIMENT CONTROL PRACTICES MUST BE IMPLEMENTED PRIOR TO THE START OF GRADING. THE PRACTICES MUST BE INSPECTED ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 1/8 INCH OF RAIN PER 24 HOUR PERIOD. THE PERMITTEE SHALL ASSIGN "QUALIFIED INSPECTION PERSONNEL" TO CONDUCT THESE INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND ADEQUATE.
- RECORDS OF THESE INSPECTIONS MUST BE KEPT AND MADE AVAILABLE TO THE CITY / COUNTY AND ITS AGENTS. AT A MINIMUM, THE INSPECTION REPORT MUST CONTAIN THE INSPECTION DATE, NAMES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, WEATHER INFORMATION FOR THE PERIOD SINCE LAST INSPECTION, LOCATION OF DISCHARGES OF SEDIMENT AND OTHER POLLUTANTS FROM THE SITE, LOCATION OF CONTROLS THAT FAILED OR INADEQUATE, LOCATION OF ADDITIONAL CONTROLS THAT ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION AND CORRECTIVE ACTIONS REQUIRED.
- PRESCRIBED TIMELINES UNDER THE OHIO EPA CONSTRUCTION SITE GENERAL PERMIT (CSGP) FOR WHEN PRACTICES REQUIRE REPAIR AND MAINTENANCE, WHEN PRACTICES FAIL TO PROVIDE INTENDED FUNCTION AND WHEN PRACTICES DEPICTED ON THE PLANS ARE NOT INSTALLED MUST BE OBSERVED. SEE PROJECT BMP MANUAL PREPARED BY CT CONSULTANTS REVISED OCTOBER 2017 FOR ADDITIONAL INFORMATION.
- PRESCRIBED TIMELINES UNDER THE OHIO EPA CONSTRUCTION SITE GENERAL PERMIT (CSGP) TO APPLY TEMPORARY OR PERMANENT STABILIZATION FOR AREAS ON THE FINAL GRADE AND AREAS TO REMAIN IDEAL FOR 14 DAYS OR LONGER MUST BE OBSERVED. SEE PROJECT BMP MANUAL PREPARED BY CT FOR ADDITIONAL INFORMATION.
- NON-SEDIMENT POLLUTANT CONTROLS MUST ALSO BE INSTALLED. NON SEDIMENT POLLUTANT SOURCES, WHICH MAY BE PRESENT ON THE CONSTRUCTION SITE, INCLUDING: PAINTING OPERATIONS, CONCRETE WASHOUT, STRUCTURE PAINTING, DEMOLITION, DEBRIS DISPOSAL, MATERIAL STORAGE, SLAG, SOLID WASTE, HAZARDOUS WASTE, SANITARY AND SEPTIC WASTES, VEHICLE FUELING AND MAINTENANCE ACTIVITIES, AND LANDSCAPING. SEE PROJECT BMP MANUAL PREPARED BY CT CONSULTANTS REVISED OCTOBER 2017 FOR ADDITIONAL INFORMATION.
- PROHIBITED DISCHARGES LISTED ON THE OHIO EPA PERMIT MUST BE PREVENTED. DISCHARGE FROM DEWATERING OF FLOODED FOOTER OR FOUNDATION AND UTILITY TRENCHES CONTAINING SEDIMENT MUST BE DIRECTED TO THE SEDIMENT BASINS OR TO A SEDIMENT CONTROL PRACTICE PRIOR TO DISCHARGE FROM THE SITE.
- ALL PUBLIC STREETS ALONG THE SITE MUST BE KEPT FREE OF SEDIMENT.



The patented Dandy Bag is designed for use with filter fabric (including woven) and mountable curb to catch sediment-laden storm water. The suspended solids are allowed to settle out of the allowed flow prior to entering the Dandy Bag.

- Stand the gate on end
- Place the Dandy Bag over the grate
- Roll the grate over so that the open end is up
- Put up the sack
- Tuck the flap in
- Press the velcro straps together
- Be sure that the end of the grate is completely covered by the flap or the Dandy Bag will not work properly
- Holding the handles, carefully place the Dandy Bag with the grate inserted into the catch basin frame

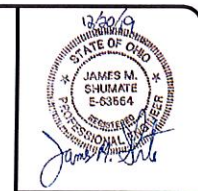


To insure proper operation remove silt, sediment, and debris from the surface and the vicinity of the unit with a square edge shovel or stiff brush to keep away from environmentally sensitive areas and waterways in manner satisfactory to the engineer/inspector. Remove fine material from inside Dandy Bag as needed. Dispose of Dandy Bag no longer in use at an appropriate recycling or solid waste facility.

POUNDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY. THE DANDY BAG MUST NEVER BE USED WHERE OVERFLOW MAY ENDANGER AND EXPOSED SLOPE. THE DANDY BAG IS NOT INTENDED FOR ANY OTHER USE AND SHOULD NOT BE REUSED FOR ANY OTHER PURPOSE.

To inspect inlet, remove Dandy Bag with grate inside, inspect catch basin and replace Dandy Bag, back into grate frame.

GABION INLET SEDIMENT FILTER Hardware cloth or comparable wire mesh with 1/2 inch openings shall be placed around the catch basin opening for a minimum distance of 24 inches as illustrated in Figure 6. 1 inch washed stone shall be piled on the wire, to anchor it to the ground, to a height of 6 inches minimum and 18 inches maximum and then covered with wire mesh. If the stone filter becomes clogged with sediment, so that it no longer adequately performs its function, the stone must be pulled away from the catch basin, cleaned or replaced. This method of inlet protection is applicable where heavy flows are expected and where an overflow capacity is necessary to prevent excess ponding around the structure.



NO	REVISION	DATE
1	ISSUED FOR BIDDING AND PERMIT ISSUE	12-29-2019
2	REVISED ENTRANCE CULTURE PER ODOT COMMENT #20-0200	

ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
BIDDING AND PERMIT ISSUE	12-29-2019	AS SHOWN	RSAT	RSAT	JSHU

SOUTH CENTRAL POWER SERVICE CENTER
- US-50, PAINT TOWNSHIP, HIGHLAND COUNTY, OH -

SWPPP DETAILS

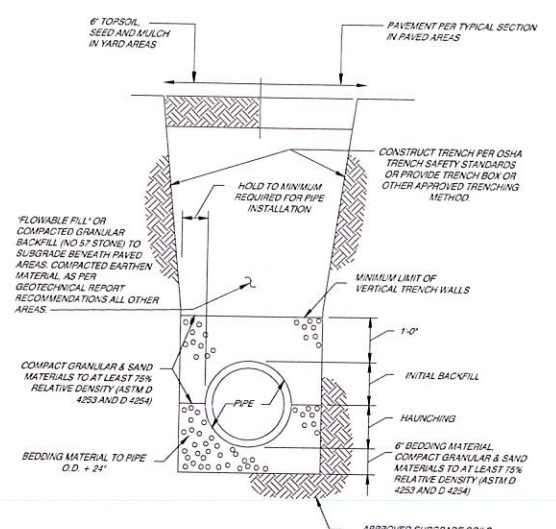
PROJECT NO.	190822
DISCIPLINE	CIVIL
SHEET NAME	C6
SHEET OF	5 OF 8



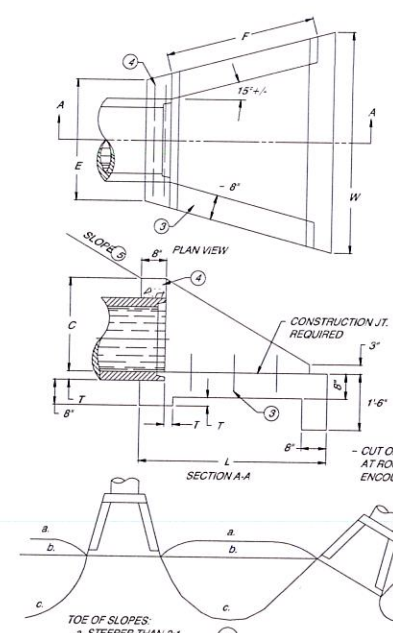
ISSUED FOR:	REVISION	NO	DATE
12-23-2019	1	BIDDING AND PERMIT ISSUE	12-23-2019
AS SHOWN	2	REVISED ENTRANCE CULVERT PER ODOT COMMENT/RFI-2020	
DESIGNED BY:	ROAT		
DRAWN BY:	ROAT		
CHECKED BY:	JSHU		

SOUTH CENTRAL POWER SERVICE CENTER
 - US50, PAINT TOWNSHIP, HIGHLAND COUNTY, OH -
DETAIL SHEET

PROJECT NO.	190822
DISCIPLINE	CIVIL
SHEET NAME	C7
SHEET	7
OF	8



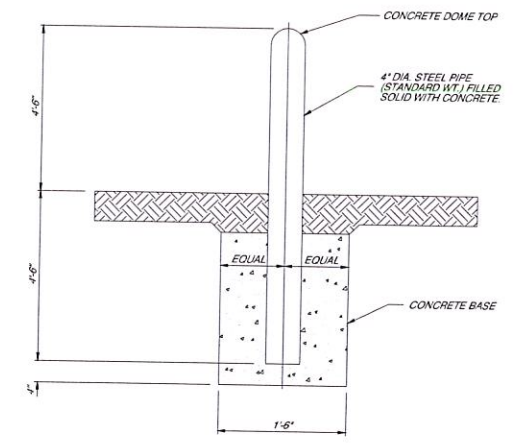
TRENCH DETAIL - YARD AND PAVED AREAS
N.T.S.



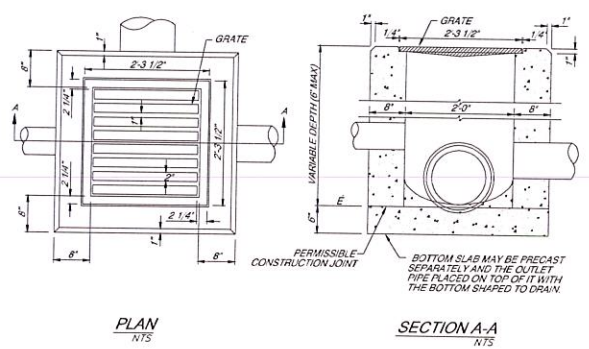
SLOPED & FLARED HEADWALLS FOR 12\"/>N.T.S.

PIPE DIA. OR EQUIV. DIA.	SHAPE	DIMENSIONS						CLASS OF CONC.	REINF. STEEL C. Y.	LBS.
		C	E	F	L	W	T			
12"	○	1'-9"	2'-6"	2'-3"	3'-6"	4'-0"	2'	0.58	7	
15"	○	2'-0"	2'-9"	2'-9"	4'-0"	4'-9"	2'	0.75		
18"	○	1'-9"	3'-0"	2'-6"	3'-6"	4'-9"	2'	0.68		
	○	2'-3"	3'-0"	3'-6"	4'-6"	5'-3"	2'	0.83		
21"	○	2'-0"	3'-6"	3'-0"	4'-0"	5'-6"	2'	0.89	8	
	○	2'-6"	3'-3"	4'-0"	5'-0"	6'-0"	2'	1.14		
24"	○	2'-3"	3'-0"	3'-6"	4'-6"	6'-0"	3'	1.07	9	
	○	2'-9"	3'-6"	4'-6"	5'-6"	6'-6"	3'	1.33	8	
27"	○	2'-6"	4'-0"	4'-0"	5'-0"	6'-0"	3'	1.30	9	
	○	3'-0"	3'-9"	5'-0"	6'-0"	7'-0"	3'	1.57		
	○	2'-9"	4'-6"	4'-3"	5'-3"	7'-3"	3'	1.51	10	

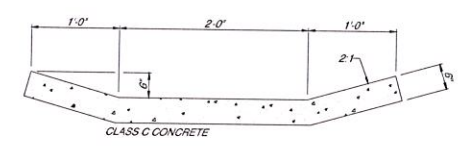
- NOTES**
1. DIMENSIONS AND QUANTITIES ARE BASED ON CONCRETE PIPE AND WILL VARY SIGNIFICANTLY FOR CORRUGATED METAL PIPE.
 2. REINFORCING STEEL - MINIMUM GRADE 40. BARS EVENLY SPACED.
 3. 6 - NO. 4 x 1'-0" DOVEL BARS
 4. 2 - NO. 4 x (E DIMENSION MINUS 4")
 5. SLOPES SHALL BE WARPED TO FIT HEADWALL WHEN PIPE IS SKEWED AND/OR NORMAL SLOPE VARIES FROM 2:1.
 6. VOLUME DISPLACED BY PIPE COMPUTED USING INSIDE DIAMETER OF PIPE.
 7. WING ANGLES AND/OR DIMENSIONS MAY BE ALTERED DURING CONSTRUCTION TO ACCOMMODATE FLOW OF WATER.
 8. APRON BETWEEN WINGS SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL SHALL REMAIN VERTICAL.
 9. HEADWALLS ARE FOR CIRCULAR, ARCH, AND HORIZONTAL ELLIPTICAL 12"-27" EQUIVALENT PIPE SIZES. SEE CURRENT STD. DWG. RD-216, FOR NON-CIRCULAR PIPE EQUIVALENT SIZES.



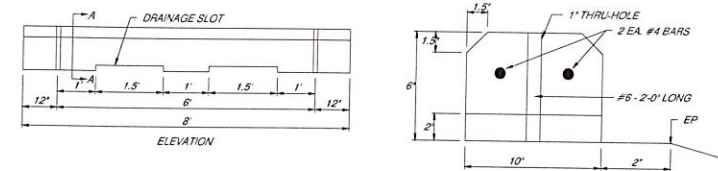
BOLLARD DETAIL
N.T.S.



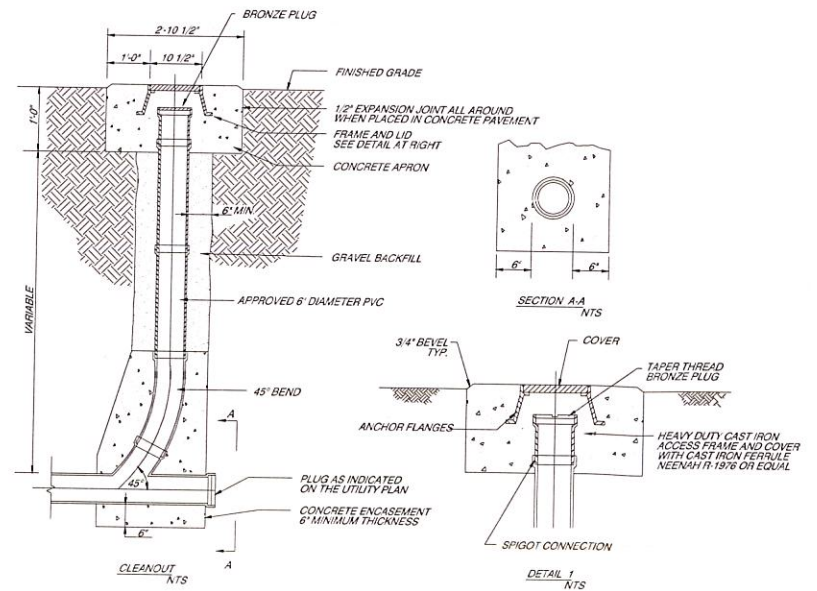
2-2-B CATCH BASIN (2' X 2')
N.T.S.



CONCRETE SWALE DETAIL
N.T.S.



BUMPER BLOCK DETAIL
N.T.S.



STORM AND SANITARY SEWER CLEANOUT DETAIL
N.T.S.

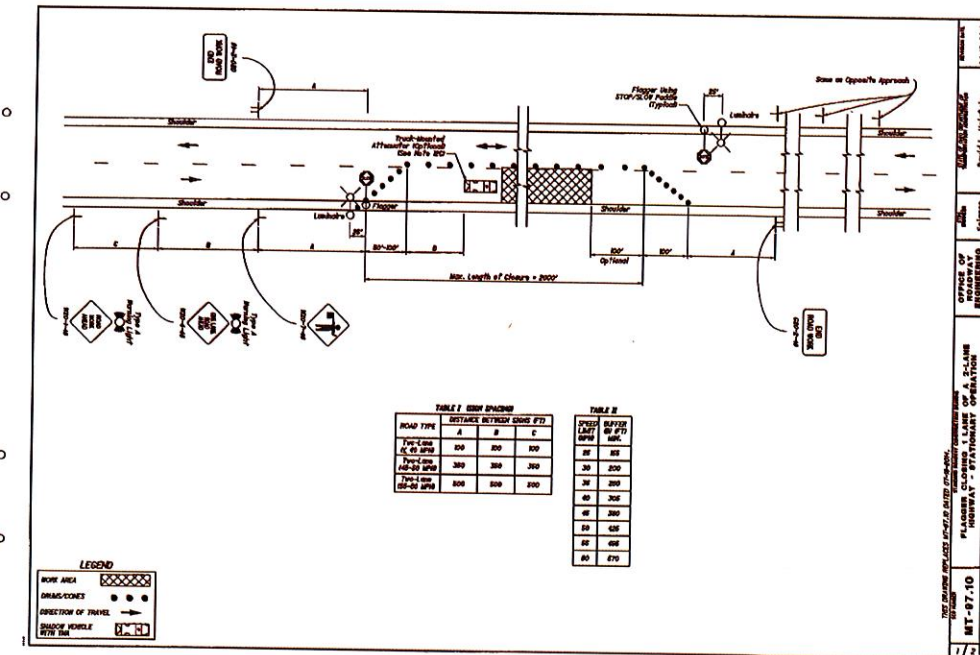


TABLE 1 - GROUND SPACING

ROAD TYPE	DISTANCE BETWEEN GROUND PIPES		
	A	B	C
1 1/2\"/>			

TABLE 2

SPACING	DEPTH
10'	30'
15'	45'
20'	60'
25'	75'
30'	90'
35'	105'
40'	120'
45'	135'
50'	150'

USE OF EXISTING UTILITIES
 WHEN THE PLANS CALL OUT TO USE EXISTING POLES, CONDUITS, PULL BOXES, OR ANY OTHER EXISTING ITEM, ALL COSTS ASSOCIATED WITH THIS USE SHALL BE INCIDENTAL TO THE WORK PERFORMED, INCLUDING CLEANING OUT EXISTING CONDUITS TO FIT CABLES, ATTACHMENT TO EXISTING SYSTEMS OR FACILITIES.

TRAFFIC SIGNAL MODIFICATION
 IN ADDITION TO THE PLAN NOTE FOR MAINTENANCE OF TRAFFIC SIGNAL FLASHER INSTALLATIONS, THE CONTRACTOR SHALL MAINTAIN AND KEEP OPERATIONAL THE EXISTING TRAFFIC SIGNAL UNTIL ALL OTHER NEW EQUIPMENT HAS BEEN INSTALLED AND IS FUNCTIONAL. WORK SHALL INCLUDE ANY MODIFICATIONS TO EXISTING OR TEMPORARY TRAFFIC SIGNAL INSTALLATIONS AS REQUIRED BY CHANGES IN CONSTRUCTION OR OPERATIONAL CONDITIONS IN THE PROJECT AREA THROUGHOUT THE CONTRACT PERIOD.

THIS SHALL INCLUDE RELOCATIONS, REMOVALS, AND COVERING OF VEHICULAR/PEDESTRIAN SIGNAL HEADS, COVERING OF ILLUMINATED/REFLECTORIZED SIGNS, TIMING ADJUSTMENTS (OBTAINED FROM THE CITY TRAFFIC ENGINEER), AND THE INSTALLATION OF ANY TEMPORARY SIGNAL EQUIPMENT AND TEMPORARY DETECTION TO SATISFY THE SAFETY AND OPERATIONAL CONDITIONS THROUGHOUT THE PROJECT.

THE USE OF EXISTING SIGNAL POLES OR INSTALLATION OF TEMPORARY OR PROPOSED SIGNAL POLES WILL BE PERMITTED TO MAINTAIN THE SIGNAL. ANY NECESSARY POLE GUYS SHALL BE INSTALLED. WHEN INSTALLING FOUNDATIONS IN CLOSE PROXIMITY TO EXISTING POLES OR PEDESTALS, PROVIDE SHORING AND OR BRACING, AS MAY BE REQUIRED TO PREVENT MOVEMENT OF THE EXISTING POLE.

THIS WORK SHALL BE PERFORMED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PAYMENT FOR ITEM 614 MAINTAINING TRAFFIC.

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

GUARANTEE
 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 OF THE TRAFFIC CONTROL SYSTEM: CONTROLLER, CABINET, UNINTERRUPTIBLE POWER SUPPLY, VEHICLE DETECTION EQUIPMENT, LED LAMP UNITS, NETWORK AND COMMUNICATIONS/INTERCONNECT EQUIPMENT.

CUSTOMARY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE STATE OR THE MAINTAINING AGENCY FOLLOWING ACCEPTANCE OF THE EQUIPMENT.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

STRAIN POLE FOUNDATION ELEVATIONS
 ELEVATIONS SHOWN IN THE PLANS FOR STRAIN POLE 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.

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.

ITEM 632, VEHICULAR SIGNAL HEAD, (LED), 1-SECTION, 12" LENS, 4-WAY, ALUMINUM, AS PER PLAN, YELLOW WITH BACKPLATES

- IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732, THE FOLLOWING REQUIREMENTS SHALL APPLY:
- SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF YELLOW PAINTED ALUMINUM WITH VISORS AS SPECIFIED AND MEET ITS SPECIFICATIONS.
 - THE ENTRANCE FITTING SHALL BE OF THE TRI-STUD DESIGN WITH SERRATED RINGS IN ORDER TO ACHIEVE POSITIVE LOCKING.
 - WHERE SPECIFIED, ALUMINUM BACKPLATES SHALL BE IN ACCORDANCE WITH THE C&MS AND INCLUDE A FLUORESCENT YELLOW REFLECTIVE BORDER.
 - THE LIGHT EMITTING DIODE (LED) MODULES SHALL MEET THE REQUIREMENTS OF C&MS 732.04-C. THE CONTRACTOR SHALL PROVIDE ODOT, IN WRITING WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.
 - SIGNAL HEADS SHALL HAVE A MINIMUM WALL THICKNESS OF 0.117 INCHES.
 - SIGNAL HEADS SHALL INCLUDE CUTAWAY TYPE VISORS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
 - 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.
 - BALANCE ADJUSTERS SHALL NOT BE USED ON ONE-WAY HEADS OR TETHERED HEADS.
- PAYMENT FOR ITEM 632 VEHICULAR SIGNAL HEAD, LED, (BY TYPE), AS PER PLAN SHALL BE MADE FOR COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS, AND NEW ATTACHMENT HARDWARE.

ITEM 632, STRAIN POLE SUPPORT FOUNDATION
 PRIOR TO ORDERING THE STRAIN POLES, 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 COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR EACH SUPPORT FURNISHED, IN PLACE, COMPLETE AND ACCEPTED.

ITEM 632, COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 6, AS PER PLAN
 IN ADDITION TO THE REQUIREMENTS OF 632.16, 732.12 AND O.D.O.T. STANDARD CONSTRUCTION DRAWINGS TC-81.10, TC-85.10, AND HL-10.11 STRAIN POLES SHALL CONFORM TO THE FOLLOWING:
 A) STAINLESS STEEL SCREWS, NUTS, BOLTS AND WASHERS MEETING THE REQUIREMENTS OF 730.10 SHALL BE USED FOR MOUNTING PEDESTRIAN PUSH BUTTONS, SIGNS, CONDUIT CLAMPS, ETC. TO STEEL POLES.
 B) THE STRAIN POLE FINISH SHALL CONSIST OF HOT DIPPED GALVANIZING THAT CONFORMS TO ASTM A 123.
 C) THE DESIGN OF EACH POLE SHALL BE PER THE STRAIN POLE FABRICATION CHART IN THE TRAFFIC CONTROL PLANS.
 D) THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE PROTECTION FOR THE FINISH OF THE POLES. IF THE FINISH IS DAMAGED DURING HANDLING AND/OR INSTALLATION, THE CONTRACTOR SHALL REPAIR THE FINISH PER THE POLE MANUFACTURER'S RECOMMENDATIONS.

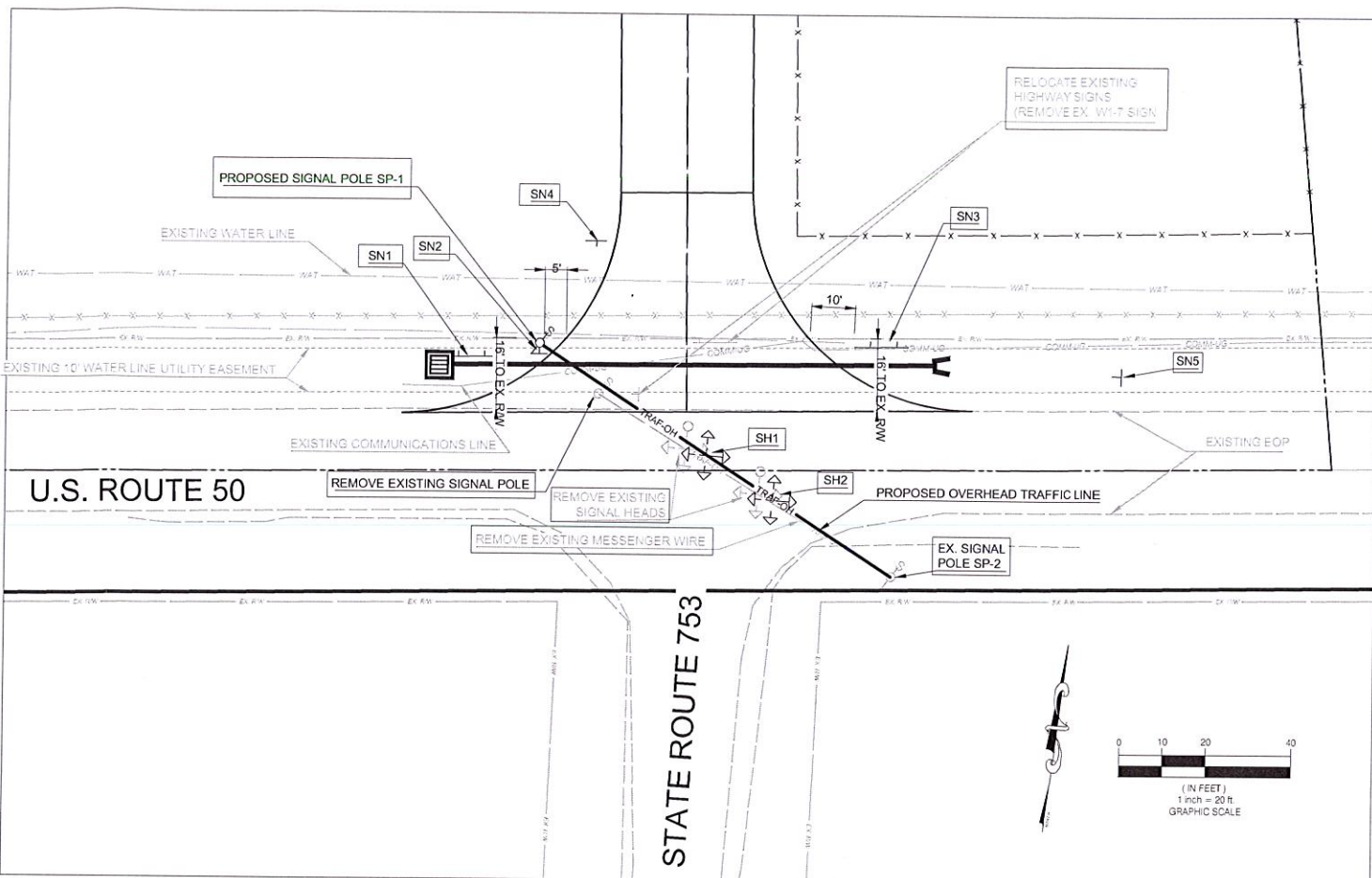
PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT BID PRICE PER EACH AND SHALL INCLUDE SIGNAL SUPPORT, ANCHOR BOLTS, NUTS, WASHERS, ANCHOR BOLT NUT COVERS, POLE CAP AND ALL REQUIRED ACCESSORIES INSTALLED COMPLETE.

ITEM 632, SIGNALIZATION, MISC.: UNLASH AND RELASH MESSENGER WIRE
 THE CONTRACTOR SHALL REMOVE EXISTING MESSENGER WIRE LASHING RODS AND REINSTALL THEM AS NECESSARY FOR THE RE-INSTALLATION OF EXISTING NEW CABLES ON THE NEW INTERSECTION SIGNAL SPANS. THE CABLES SHALL ENTER THE EXISTING STRAIN POLE THROUGH THE POLE CABLE ENTRANCE FITTING AND USE THE EXISTING CONDUIT SYSTEM TO GET TO THE CONTROLLER CABINET. THE EXISTING CABLES SHALL BE SUPPORTED BY A NEW CABLE SUPPORT ASSEMBLY AT THE TOP OF THE STRAIN POLE.

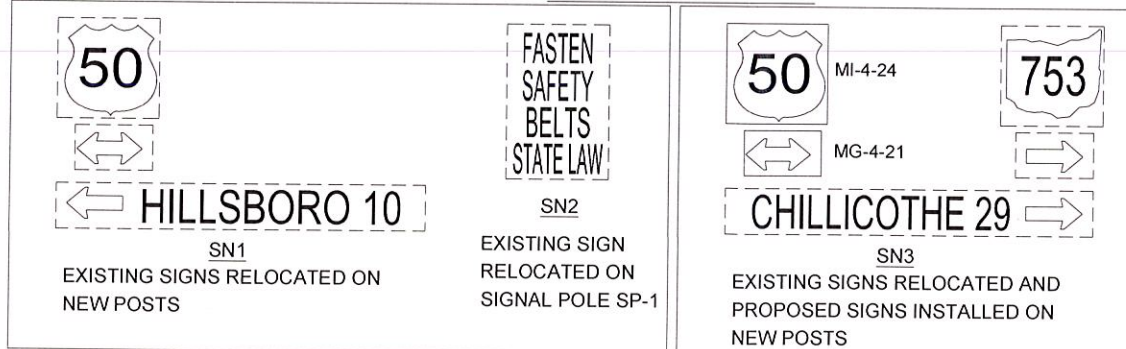
PAYMENT FOR ITEM 632 'SIGNALIZATION MISC.: UNLASH AND RELASH MESSENGER WIRE' SHALL BE MADE AT THE CONTRACT UNIT PRICE PER PER FOOT AND SHALL INCLUDE ALL LABOR, MATERIALS, CABLE SUPPORT ASSEMBLIES AND EQUIPMENT TO RE-INSTALL EXISTING CABLES ON NEW SIGNAL SPAN WIRE INSTALLATIONS.

ITEM 632, REMOVAL OF TRAFFIC SIGNAL INSTALLATION AS PER PLAN
 TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS. REMOVED ITEMS SHALL BE STORED ON THE PROJECT FOR SALVAGE BY ODOT IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

ITEMS TO BE STORED FOR SALVAGE: STRAIN POLE, VEHICULAR SIGNAL HEADS
 IN THE EVENT THE ITEMS STORED ON THE PROJECT FOR SALVAGE BY ODOT ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.



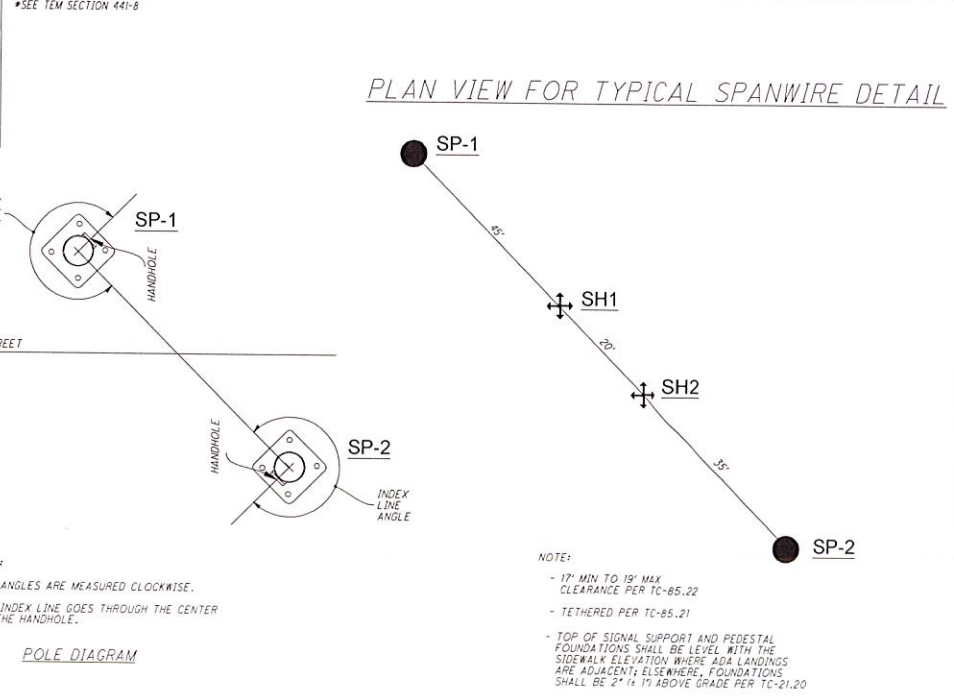
SIGN LEGEND



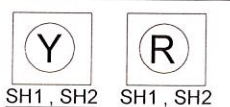
PLAN DETAILS FOR STRAIN POLES (ITEM FIGURE 498-36)

REFERENCE SHEET NO. #	STATION & OFFSET #	POLE NO.	DESIGN NO.	POLE HEIGHT (FT.)	FOUNDATION ELEV. #	SPAN WIRE ATTACHED HEIGHT #	CABLE ENTRANCE DISTANCE FROM TOP (IN.)	INDEX LINE ANGLE (DEG.)	ANGLES (DEG.) FROM INDEX LINE							
									PEDESTRIAN SIGNALS	PEDESTRIAN PUSH BUTTONS	CONTROLLER	POWER SERVICE	CABLE ENTRANCE	LUMINAIRE BRACKET	INTERCONNECT POLE SPLICER BOX	2" CAPED
-	-	SP-1	6	30'	-	24'	-	135°	-	-	-	-	-	-	-	-
-	-	SP-2	EX	30'	EX	24'	-	225°	-	-	-	225	90	-	-	-

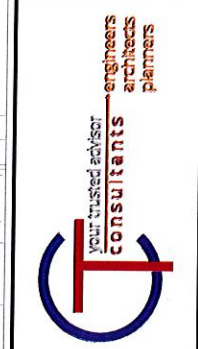
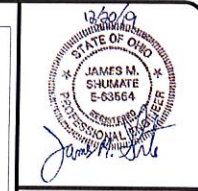
*SEE ITEM SECTION 441-B



SIGNAL HEADS



- NOTES:
 1. VEHICULAR SIGNAL HEADS (LED), 1 SECTION, 12" LENS, 4-WAY, ALUMINUM, AS PER PLAN, (YELLOW), WITH BACKPLATES.
 2. ORIENT YELLOW INDICATION TO FACE US 50.
 3. ORIENT RED INDICATION TO FACE SR 753 / SCP DRIVE.



NO.	REVISION	DATE
1	BIDDING AND PERMIT ISSUE	12-23-2019
2	REVISED ENTRANCE CULVERT PER ODOT COMMENT 2020	

REVIEW	DATE	BY
12-23-2019	1" - 20"	RSAT
		RSAT
		JSHU

ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:

SOUTH CENTRAL POWER SERVICE CENTER
 - US50, PAINT TOWNSHIP, HIGHLAND COUNTY, OH -
STRAIN POLE AND SIGN RELOCATION DETAIL

PROJECT NO.	190822
DISCIPLINE	CIVIL
SHEET NAME	C8
SHEET	8
OF	8