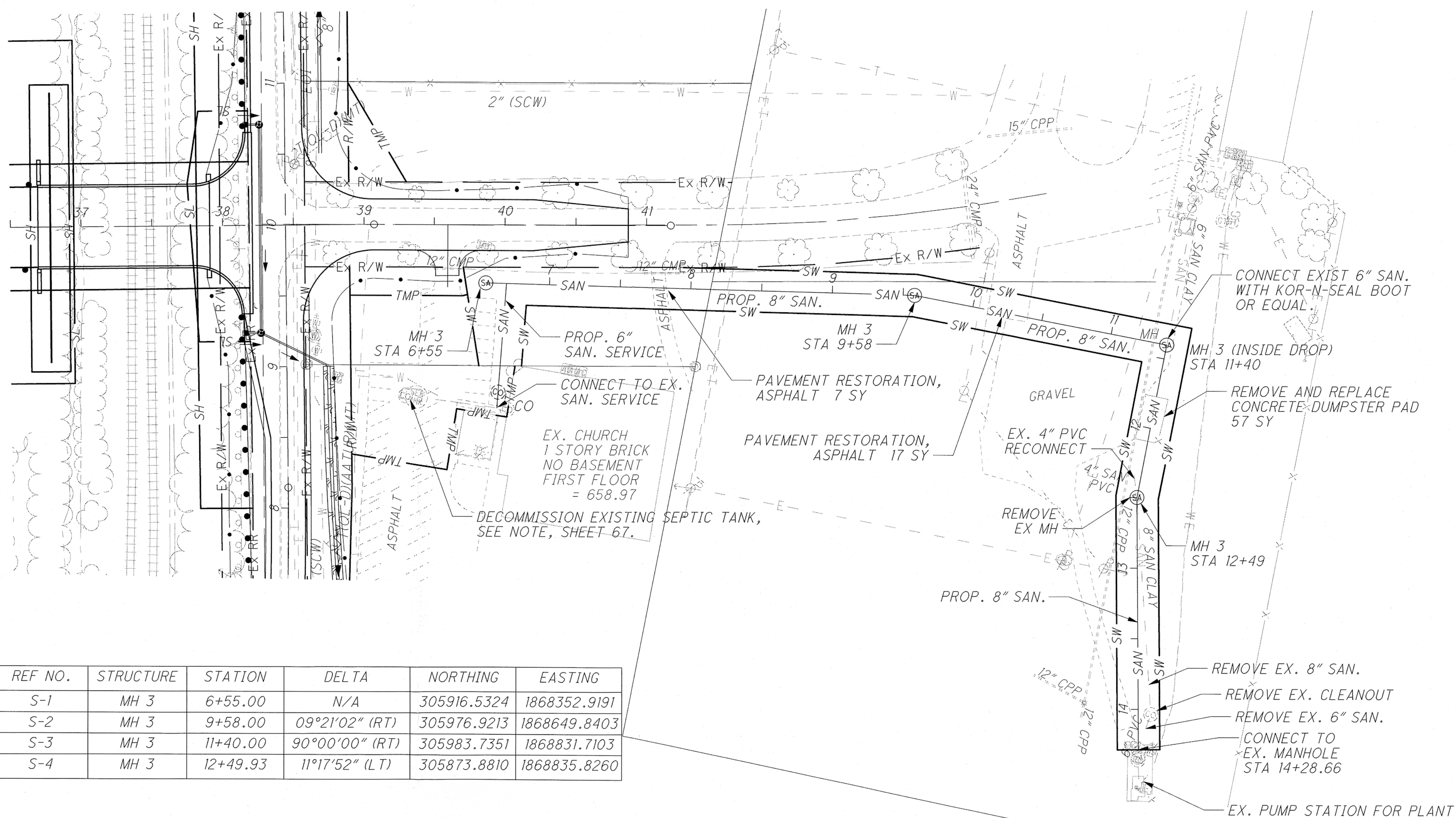


CALCULATED  
JLB  
CHECKED  
LBD

**PLAN AND PROFILE  
SANITARY SEWER**

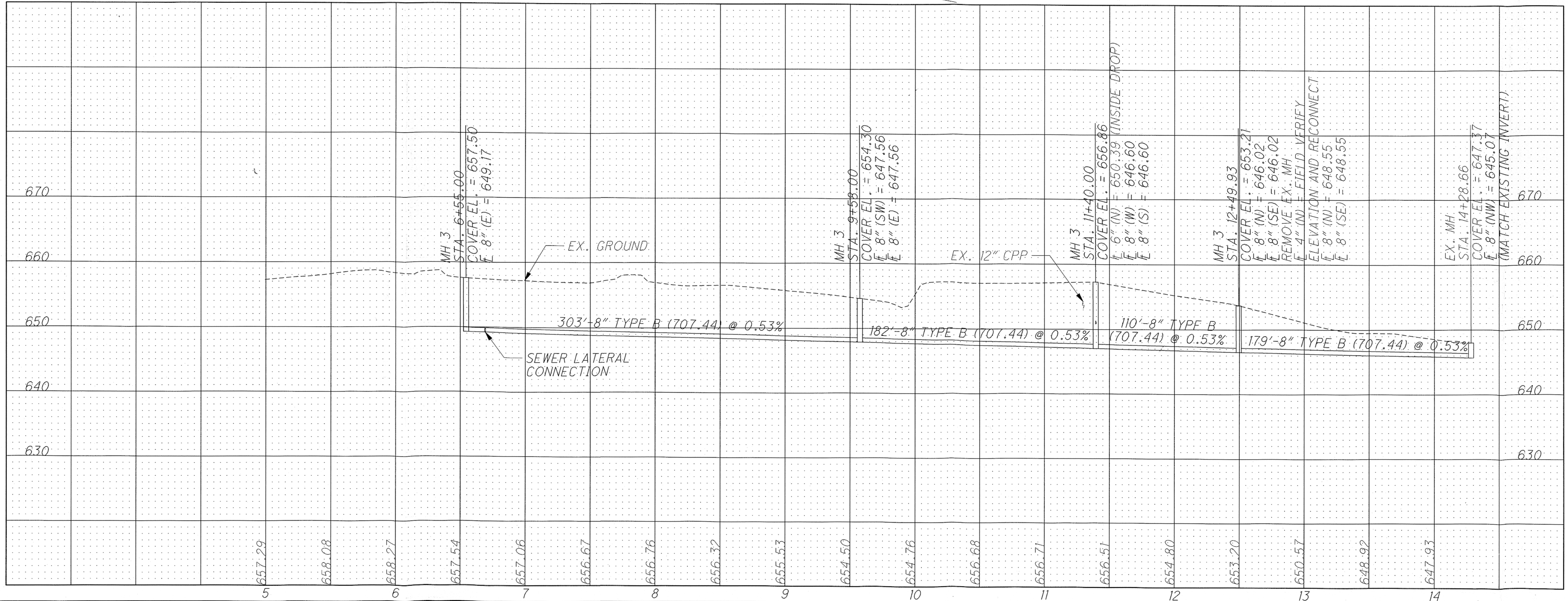
**SCI-823-6.81**



SEE SANITARY NOTES, ESTIMATED QUANTITIES AND PAVEMENT RESTORATION DETAILS ON SHEET 67

NOTE:  
ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

REF NO.	STRUCTURE	STATION	DELTA	NORTHING	EASTING
S-1	MH 3	6+55.00	N/A	305916.5324	1868352.9191
S-2	MH 3	9+58.00	09°21'02" (RT)	305976.9213	1868649.8403
S-3	MH 3	11+40.00	90°00'00" (RT)	305983.7351	1868831.7103
S-4	MH 3	12+49.93	11°17'52" (LT)	305873.8810	1868835.8260



837831  
**PAID**  
Amount 1013.00 Date 11/17/11  
Check# 1113689 Date 10/28/11

RECEIVED

NOV 17 2011

Ohio Environmental  
Protection Agency  
Southeast District



USER: ldearney PLOT DATE: 9/27/2011 REVISION DATE: 9/27/2011  
FILE: \\s:\hr\CAD\BDD\000000045878 /194161P001.dgn MODEL:Sheet

REF NO.	STATION		SIDE	202				204	304	408	442	442	452	603	604	604	603
				PIPE REMOVED, 24" AND UNDER	MANHOLE REMOVED	REMOVAL MISC.: DECOMMISSION EX. SEPTIC TANK	PAVEMENT REMOVED	SUBGRADE COMPACTION	8" AGGREGATE BASE	PRIME COAT (R=0.40)	1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	8" NON-REINFORCED CONCRETE PAVEMENT	8" CONDUIT, TYPE B (707.44)	MANHOLE, NO. 3	MANHOLE, NO. 3, AS PER PLAN	6" CONDUIT, TYPE B (707.44)
	FROM	TO		FT	EACH	EACH	SQ YD	SQ YD	CU YD	GALLON	CU YD	CU YD	SQ YD	FT	EACH	EACH	FT
	5+00.00	5+93.00				1											
S-1	6+55.00	9+58.00					7	2	3	1	1		303	1			88
S-2	9+58.00	11+40.00					17	4	7	1	1		182	1			
S-3	11+40.00	12+49.93				57	57					57	110		1		
S-4	12+49.93	14+28.66		181	1								179	1			
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				181	1	1	57	81	6	10	2	2	57	774	3	1	88

NOTE: DECOMMISSION EXISTING SEPTIC TANK

CONTACT SCIOTO COUNTY HEALTH DEPARTMENT FOR INSPECTION DURING REMOVAL. PHONE# (740) 354-3241

PUMP AND PROPERLY DISPOSE OF TANK CONTENTS.

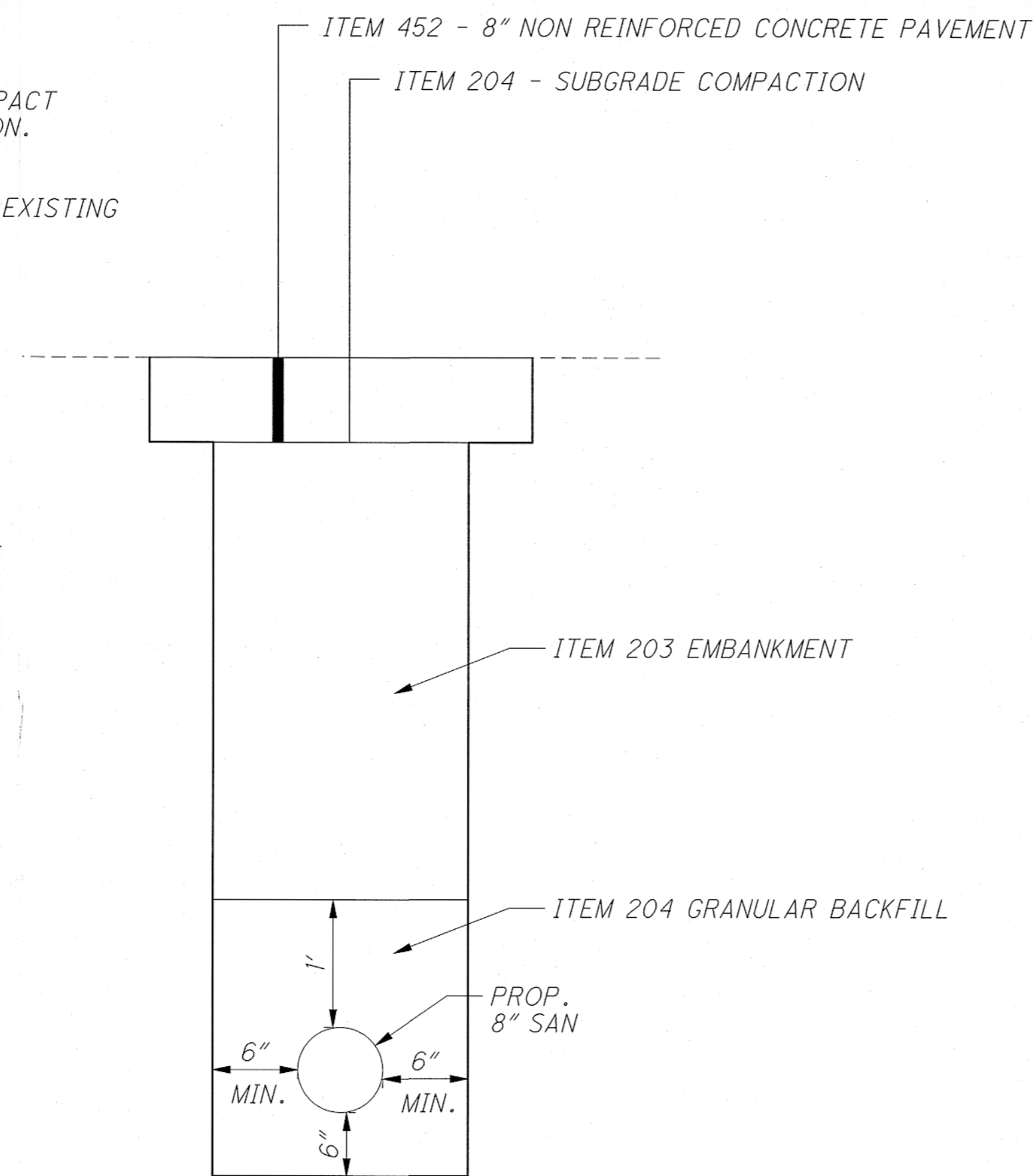
DEMOLISH TOP OF CONCRETE TANK DOWN TO A MINIMUM 3 FEET DEPTH TO ASPHALT SURFACE.

CAP INLET AND OUTLET PIPES WITH GROUT STOPPER.

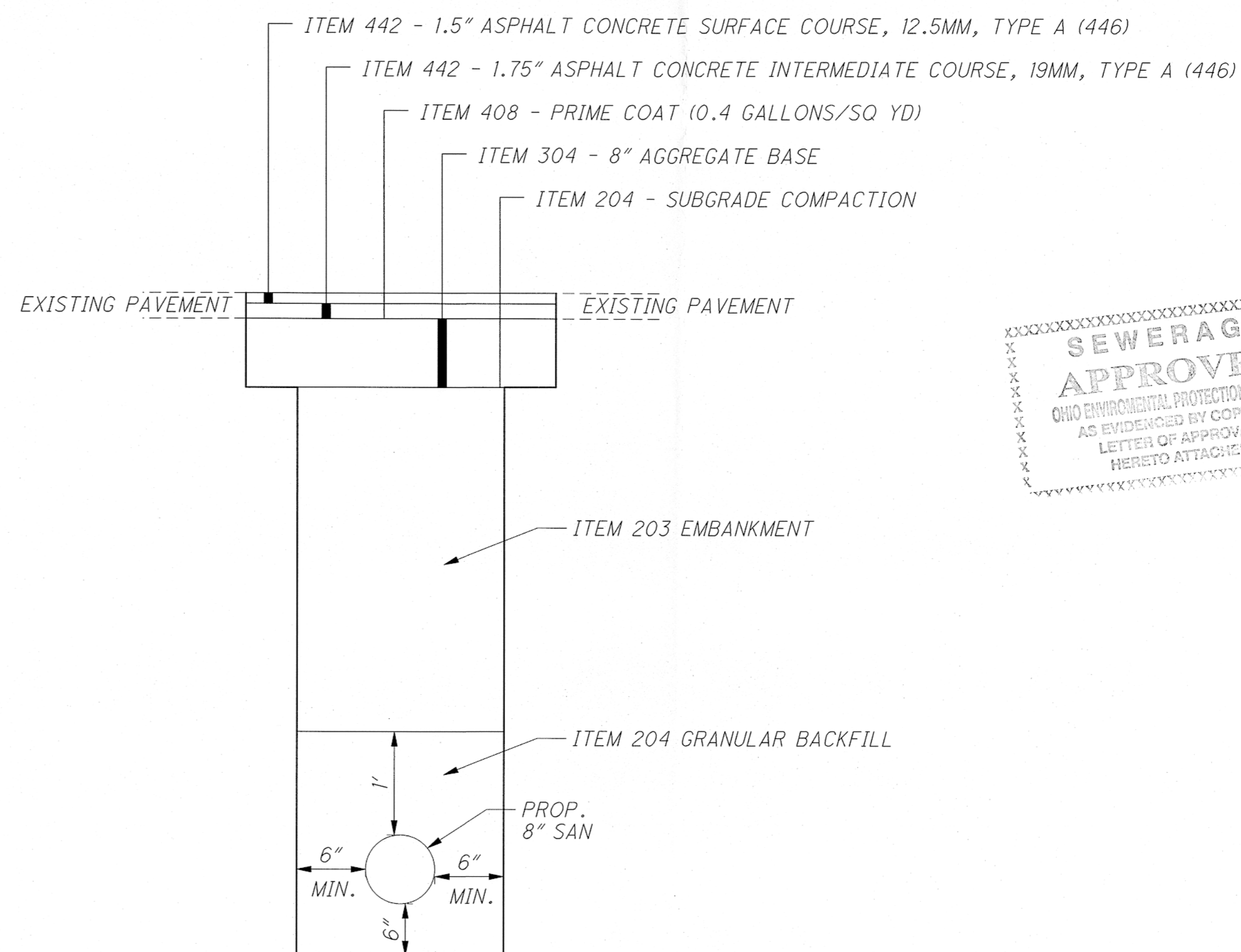
FILL REMAINING TANK WITH SAND AND COMPACT APPROPRIATELY FOR ASPHALT RESTORATION.

PAYMENT FOR THIS WORK IS INCLUDED IN ITEM 202, REMOVAL MISC.: DECOMMISSION EXISTING SEPTIC TANK.

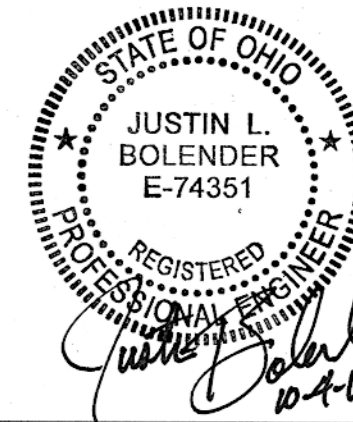
NOTE: ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.



PAVEMENT RESTORATION  
CONCRETE



PAVEMENT RESTORATION  
ASPHALT



CALCULATED

CHECKED

DETAIL SHEET  
SANITARY SEWER

SCI-823-6.81

69  
111

USER: jdemmel PLOT DATE: 9/27/2011 7:48:08 AM REVISION DATE: 9/27/2011 MODEL SHEET  
FILE: .../194151/P0019514/P002.dgn

**Report on the Permit to Install for Installation of  
Gravity Sewer  
To Serve the Sunshine Church  
PTI No. 837881  
November 28, 2011**

On November 17, 2011, an Application for Permit to Install (PTI) and detailed engineering plans and specifications for the Sunshine Church were received in our office.

**Documents Received and Reviewed:**

4 sets of detailed drawings and appropriate form a and b.

**Design Engineer:**

HDR Engineering, Inc.  
9987 Carver Road Suite 200  
Cincinnati, Ohio 45242

**Applicant/Permittee:**

Ohio Department of Transportation  
District 9  
650 Eastern Avenue  
Chillicothe, Ohio 45601

**Ultimate Owner:**

Scioto County Sewage Department  
602 Seventh Street, Room 104  
Courthouse  
Portsmouth, Ohio 45662

**Background/Description of Project:**

To tie in Sunshine Church of Christ on Barklow Road to existing sanitary sewer that serves the Portsmouth Regional Airport. This is part of the Portsmouth Bypass Project.

**Design Flow and Basis for the Design Flow:**

0.0021 mgd based on non-residential flows.

**Sewer System/Treatment Works the Project Will be Tributary to:**

Portsmouth Regional Airport plant operated by Scioto County Commissioners.

**Location/Description of Connection**

Tie into new sewer line at front of church with 6" lateral and connect lateral to 8" sewer

located at north side of church. Will ultimately tie into existing manhole in front of airport plant.

**Sewershed/WWTP Capacity Status:**

Any capacity problems in sewershed:  Yes  No

Does the WWTP have capacity to accept additional wastewater:  Yes  No

**Sanitary Sewers Design:**

<b>Material Specifications</b>	ASTM F-679
<b>Joint Specifications</b>	ASTM D-3212
<b>Bedding and Backfill Specifications</b>	ASTM D -2321
<b>Diameter/Length</b>	778 ft. of 8 inch
<b>Minimum Slope</b>	8 in. 0.94%
<b>Required Min. Slope Without Using Larger Sewer than Necessary? Y or N</b>	N
<b>Total Length</b>	778 ft.
<b>Maximum Manhole Spacing</b>	304 ft.
<b>Deflection Test Specified? Y or N or N/A</b>	Y
<b>Maximum Allowable I/I of 100 gpd/in.dia/mile Specified? Y or N</b>	Y
<b>Isolation from Water Lines Meets Stds? Y or N</b>	10 ft. horizontal/18 in.vert.
<b>Cleanouts Used? Y or N</b>	Y
<b>Basements Will be Served? Y or N</b>	Y
<b>Wye's Provided to serve each lot? Y or N</b>	Y
<b>Lateral from wye extended to property line?</b>	Y
<b>Type of Leak test</b>	Air
<b>Flood Protection Issues?</b>	N

**Manhole Design:**

<b>Type</b>	precast concrete
<b>Number of New Manholes</b>	3
<b>Material Specification</b>	ASTM C-478
<b>Joint Specification</b>	ASTM C-443
<b>Minimum Diameter</b>	4 ft.
<b>Minimum Access Opening</b>	2 ft.
<b>Gasketed Flexible Watertight Connections, at Inlet and Outlet,</b>	Y
<b>Grade Rings Specified,</b>	Y
<b>Drop Manholes Required,</b>	Y
<b>Formed Flow Channel</b>	Y
<b>Type of Leak test</b>	Vacuum

Flood Protection Issues, Y or N

N


**Estimated Costs:**

The estimated cost of this project is \$125,000.00.

**Conclusions and Recommendations:**

The detail plans and specifications for the Sunshine Church have been reviewed, appear acceptable and are recommended for approval.



 Scott Foster  
District Representative  
Division of Surface Water



Bruce E. Goff, P.E.  
Supervisor/Permits Section  
Division of Surface Water

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**Environmental  
Protection Agency**

John R. Kasich, **Governor**  
Mary Taylor, **Lt. Governor**  
Scott J. Nally, **Director**

HDR-CINCINNATI

DEC 08 2011

RECEIVED

December 07, 2011

Re: Portsmouth  
Scioto County  
Application No. 837881  
Application for Gravity Sewer for Ohio  
Department of Transportation Portsmouth By-  
Pass, Sunshine Church Sanitary Sewer  
Extension  
Plans Received on November 17, 2011  
From: HDR Engineering Inc.  
**CERTIFIED MAIL**

Ohio Department of Transportation - District 9  
Attn: Tom Barnitz, PE, Planning/Engineering Admin  
P.O. Box 467, 650 Eastern Avenue  
Chillicothe, OH 45601

Ladies and Gentlemen:

Enclosed is the Ohio EPA Permit to Install which will allow you to install the described source in the manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

You should note that a general condition of your permit states that issuance of the permit does not relieve you of the duty of complying with all applicable federal, state, and local laws, ordinances, and regulations.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel", which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address: Environmental Review Appeals Commission, 77 South High Street, 17th Floor, Columbus, OH 43215.

If you have any questions, please contact the Ohio EPA district office to which you submitted your application.

Sincerely,

Patti L. Smith, Supervisor  
Permit Processing Unit  
Division of Surface Water

PLS/sg  
Enclosure

cc: Southeast District Office  
Scioto County Engineer  
HDR Engineering Inc.

# Ohio Environmental Protection Agency

Permit to Install

Application No: 837881

Applicant Name: Ohio Department of Transportation - District 9  
Address: P.O. Box 467, 650 Eastern Avenue  
City: Chillicothe  
State Zip: OH 45601

Person to Contact: Tom Barnitz, PE, Planning/Eng Admin  
Telephone: 740-773-2691

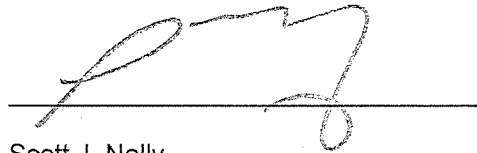
Description of Proposed Source: Gravity Sewer for Ohio Department of Transportation Portsmouth  
By-Pass, Sunshine Church Sanitary Sewer Extension, Portsmouth,  
Scioto County

Issuance Date: December 07, 2011

Effective Date: December 07, 2011

The above named entity is hereby granted a permit to install for the above described source pursuant to Chapter 3745-42 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source of environmental pollutants will operate in compliance with applicable state and federal laws and regulations. Issuance of this permit does not constitute expressed or implied assurance that, if constructed or modified in accordance with those plans and specifications, the above described source of pollutants will be granted the necessary operating permits. This permit is granted subject to the following conditions attached hereto.

Ohio Environmental Protection Agency

A handwritten signature in black ink, appearing to read 'S. Nally', is written over a horizontal line.

Scott J. Nally  
Director  
P.O. Box 1049  
50 West Town Street, Suite 700  
Columbus, OH 43216-1049

This permit shall expire if construction has not been initiated by the applicant within eighteen months of the effective date of this permit. By accepting this permit, the applicant acknowledges that this eighteen month period shall not be considered or construed as extending or having any effect whatsoever on any compliance schedule or deadline set forth in any administrative or court order issued to or binding upon the permit applicant, and the applicant shall abide by such compliance schedules or deadlines to avoid the initiation of additional legal action by the Ohio EPA.

The director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, examining records, or reports pertaining to the construction, modification, or installation of the above described source of environmental pollutants.

Issuance of this permit does not relieve you of the duty of complying with all applicable federal, state, and local laws, ordinances, and regulations.

Any well, well point, pit, or other device installed for the purpose of lowering the ground water level to facilitate construction of this project shall be properly abandoned in accordance with the provisions of this plan or as directed by the director or his representative.

Any person installing any well, well point, pit or other device used for the purpose of removing ground water from an aquifer shall complete and file a Well Log and Drilling Report form with the Ohio Department of Natural Resources, Division of Water, within 30 days of the well completion in accordance with the Ohio Revised code Section 1521.01 and 1521.05. In addition, any such facility that has a capacity to withdraw waters of the state in an amount greater than 100,000 gallons per day from all sources shall be registered by the owner with the chief of the Division of Water, Ohio Department of Natural Resources, within three months after the facility is completed in accordance with Section 1521.16 of the Ohio Revised Code. For copies of the necessary well log, drilling report, or registration forms, please contact:

Ohio Department of Natural Resources  
2045 Morse Road Bldg. E  
Columbus, OH 43229-6693  
(614) 265-6717

The proposed wastewater disposal system shall be constructed in strict accordance with the plans and application approved by the director of the Ohio Environmental Protection Agency. There shall be no deviation from these plans without the prior express, written approval of the agency. Any deviations from these plans or the above conditions may lead to such sanctions and penalties as provided for under Ohio law. Approval of these plans and issuance of this permit does not constitute an assurance by the Ohio Environmental Protection Agency that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction area for this project is one acre or more, or is part of a larger development that is one acre or more, the applicant must submit a Notice of Intent (NOI) for coverage under the general construction stormwater permit to Ohio EPA at least 21 days prior to the start of construction of this project.



For projects involving construction or placement of fill in a stream or wetland, the applicant shall contact the appropriate district of the U.S. Army Corps of Engineers for a determination regarding potential impacts to water of the state as well as the requirements for obtaining, if necessary, certification. The applicant shall acquire a Section 404 permit and 401 water quality certification, if needed, before impacting any waters of the state as part of this project.

The Scioto County Sewage Department shall be responsible for proper operation and maintenance of the sewerage system.

For parallel installation, a minimum horizontal separation of 10 feet between gravity sanitary sewers and any existing or proposed potable water mains shall be maintained. The distance shall be measured edge to edge.

Where gravity sewer lines cross existing or proposed water mains, the gravity sewer lines shall be laid below the water mains to provide a separation of at least 18 inches between the invert of the water main and the crown of the gravity sewer. The lines shall be laid so that the gravity sewer line joints are as far as possible from the water main joints.

The operation of the sewerage system shall be under the responsible charge of a certified operator having the proper certificate issued under Chapter 3745-7-05 of the Ohio Administrative Code.

This permit to install applies only to the wastewater disposal system listed above. The installation of drinking water supplies, air contaminant sources, or solid waste disposal facilities will require the submittal of a separate application to the director.

Roof drains, foundation drains, and other clean water connections to the sanitary sewer shall be prohibited by enforcement of legally adopted rules by the authority regulating the use of sanitary sewers.

Sewer and manhole construction joints shall conform to standards of the Ohio Environmental Protection Agency.

When flexible pipe (PVC, ABS, HDPE, etc.) is used it must be tested for maximum deflection of 5 percent after the final backfill has been in place no less than 30 days to permit stabilization of the soil-pipe system. Pipe with a stiffness of 200 p.s.i. or greater need not be tested for deflection if all pipe between manholes is less than 12 feet below final grade.

The rigid ball or mandrel used for the deflection test shall have a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM specification, including the appendix, to which the pipe is manufactured. The test shall be performed without mechanical pulling devices.

All pipe, flexible and rigid, shall be subject to a leakage test. The leakage exfiltration/infiltration test shall be a hydrostatic or air test. The hydrostatic leakage test shall not exceed 100 gallons per inch of pipe diameter per mile per day for any section of the system. If an air test is used, the test shall conform to the test procedure outlined in the ASTM standards for the material of pipe used.

The leakage and deflection test shall be conducted under the supervision of a professional engineer. A representative of the professional engineer may supervise the deflection and leakage tests, but the professional engineer must sign off on the results of the deflection and leakage tests. Results of the deflection and leakage tests shall be kept on file at least 180 days by the entity responsible for the sewerage system, and shall be available upon request by the Ohio Environmental Protection Agency. Any lines which fail the deflection or leakage test must be repaired and retested until they meet the requirements which have been set forth within this condition.

All gravity sanitary sewers which are located in well field areas shall comply with and be tested as specified in Ohio Environmental Protection Agency Guideline, Gravity Sewers in Well Field Areas, February 1983.

Any well, well point, pit or other device installed for the purpose of lowering the ground water level to facilitate construction of this project shall be properly abandoned in accordance with the provisions of Section 3745-9-10 of the Ohio Administrative Code or in accordance with the provisions of this plan or as directed by the Director or his representative. Division of Drinking and Ground Water - Lazarus Government Center, 50 West Town Street, Suite 700, Columbus, Ohio 43215 (614) 644-2752.

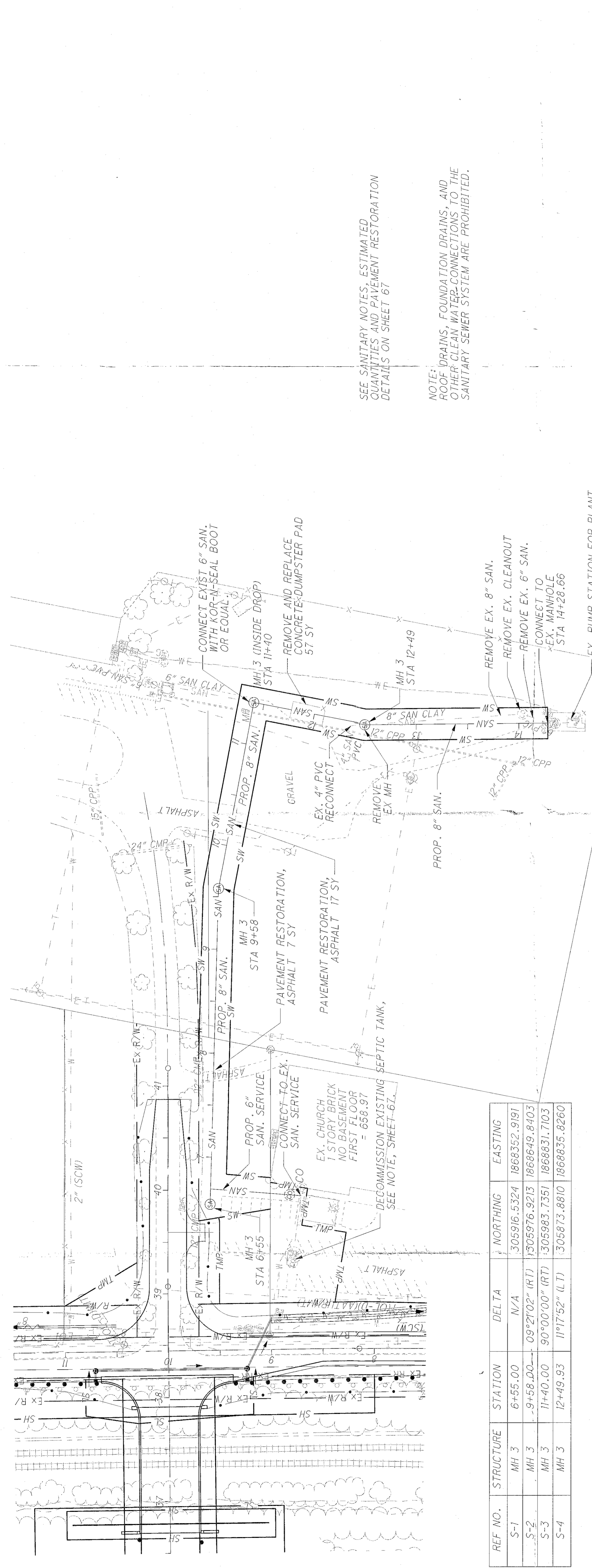
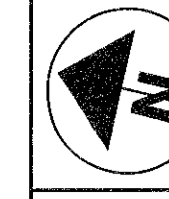
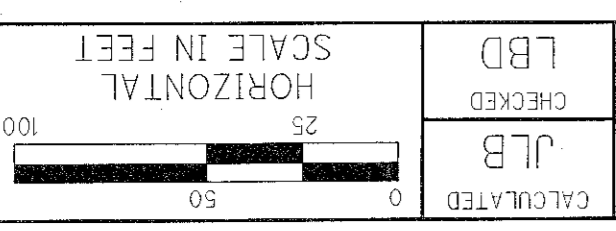
The permit to install is not an authorization to discharge pollutants to waters of the state. Pursuant to Chapter 6111 of the Ohio Revised Code, the applicant shall apply for a permit to discharge (NPDES) 180 days prior to any discharge of pollutants to waters of the state.

Fugitive dust generated by this sewer construction project shall be controlled as specified in OAC 3745-17-08 (B).

**PLAN AND PROFILE**  
**SANITARY SEWER**

111  
68

REGISTERED PROFESSIONAL ENGINEER  
STATE OF OHIO  
JUSTIN L. BOLENDER  
E-74351

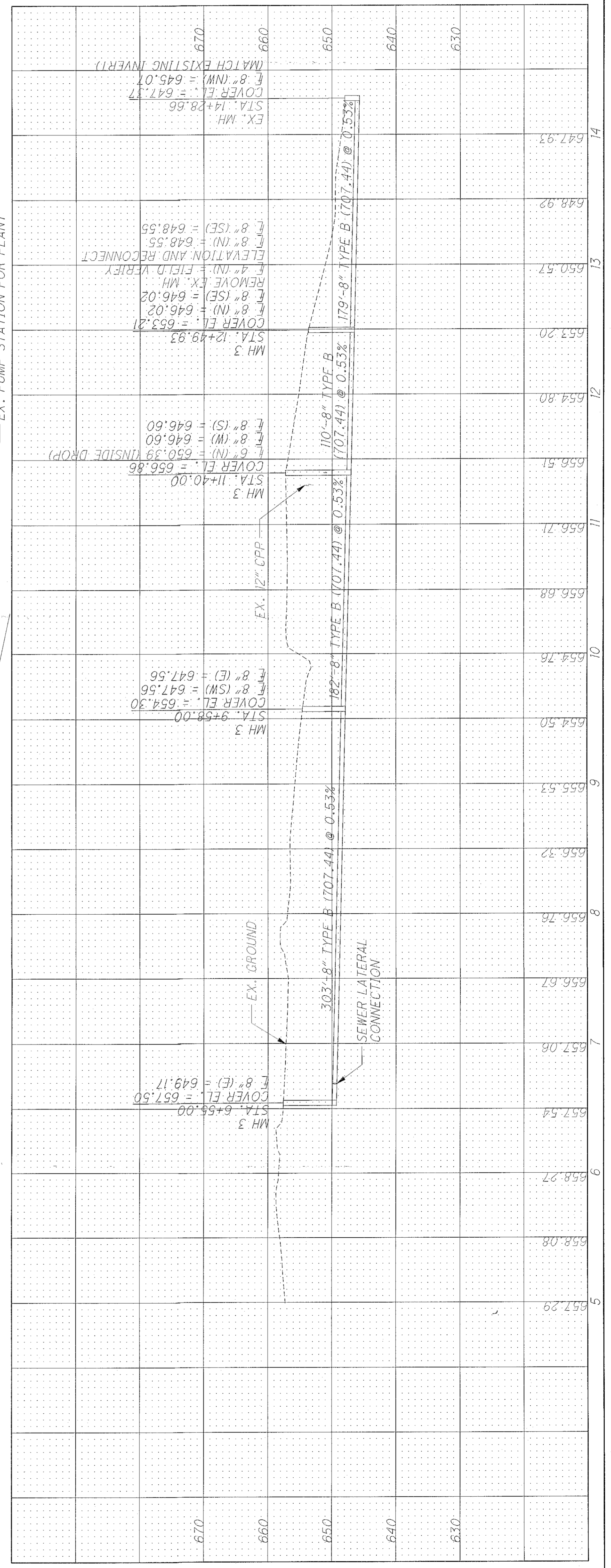


SEE SANITARY NOTES, ESTIMATED QUANTITIES AND PAVEMENT RESTORATION DETAILS ON SHEET 67

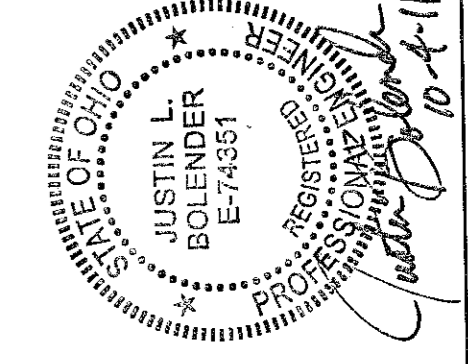
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EX. PUMP STATION FOR PLANT

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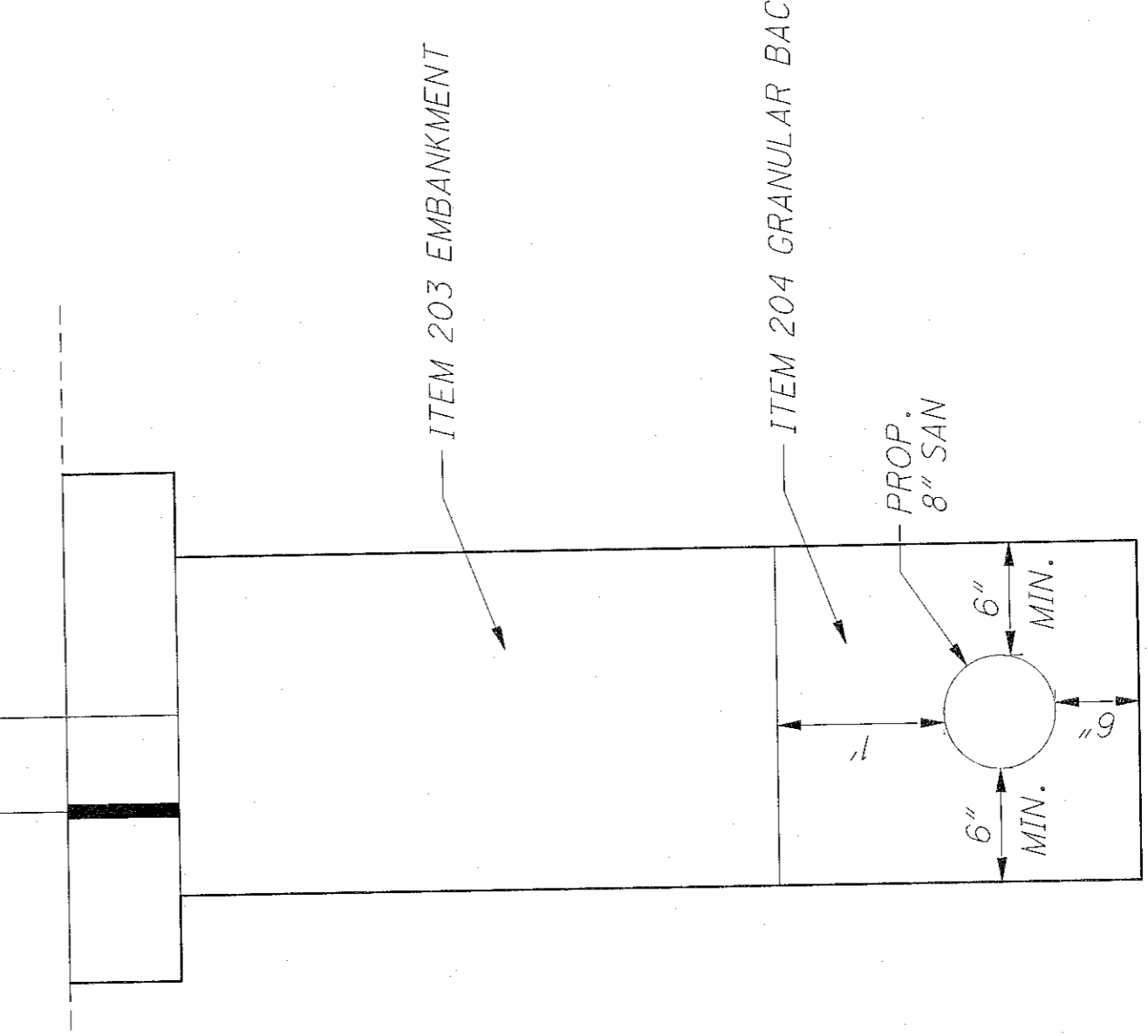


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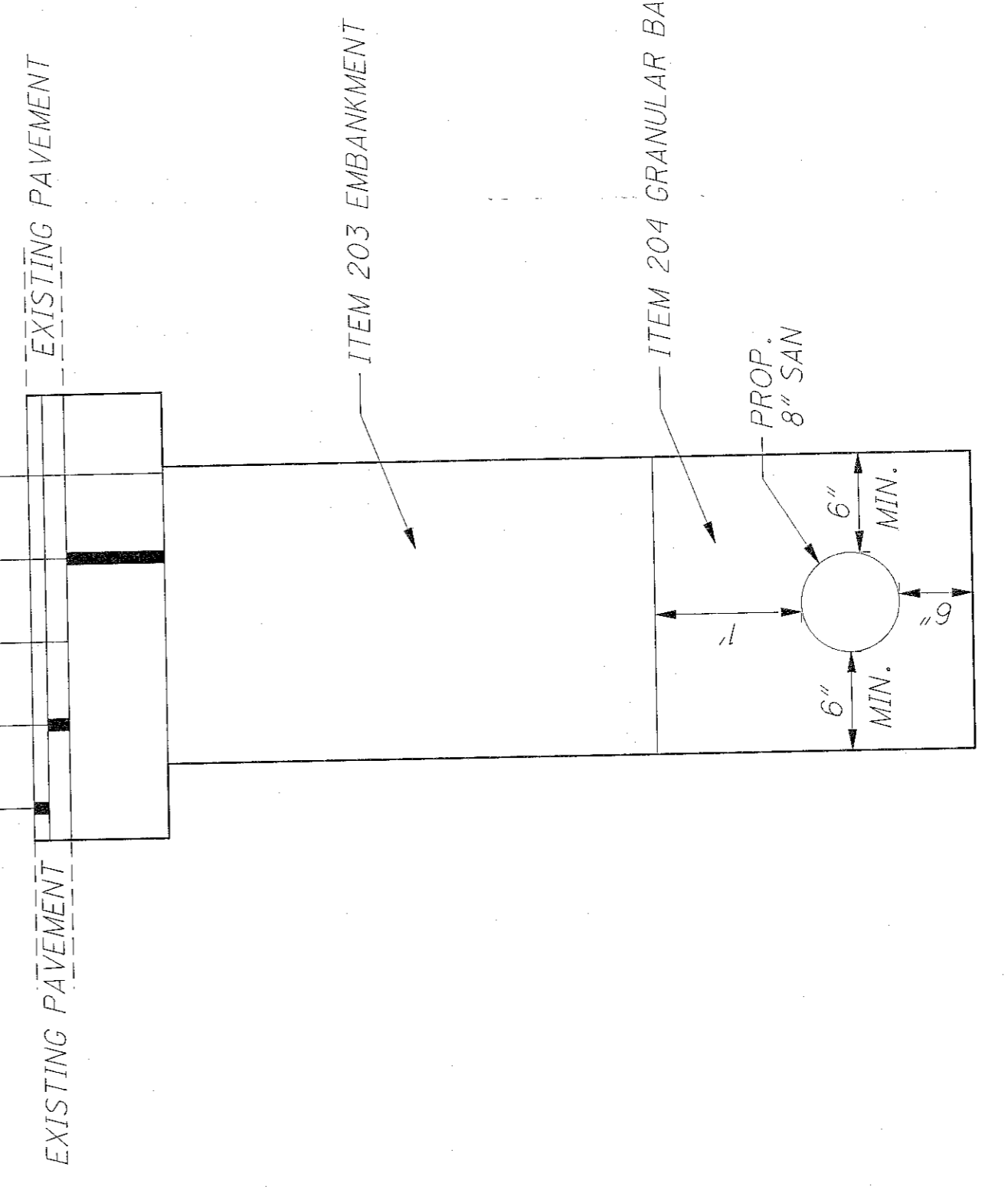
REF NO.	STATION		SIDE	202		408	304	204	442	442	442	452	603	604	604	603	604	603	
	FROM	TO		MANHOLE REMOVED	REMOVAL MISC. DECOMMISSION TANK														PAVEMENT REMOVED
S-1	5+00.00	5+93.00																	
S-2	6+55.00	9+58.00		1			2	7	1				303	1					88
S-3	9+58.00	11+40.00					4	17	1				182	1					
S-3	11+40.00	12+49.93						57					110						
S-4	12+49.93	14+28.66		1									173	1					
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				181	1	57	6	81	2	2	2	57	774	3	1				88

NOTE: DECOMMISSION EXISTING SEPTIC TANK  
CONTACT SCIOTO COUNTY HEALTH DEPARTMENT FOR INSPECTION DURING REMOVAL.  
PHONE # (740) 354-3241  
PUMP AND PROPERLY DISPOSE OF TANK CONTENTS.  
DEMOLISH TOP OF CONCRETE TANK DOWN TO A MINIMUM 3 FEET DEPTH TO ASPHALT SURFACE.  
CAP INLET AND OUTLET PIPES WITH GROUT STOPPER.  
FILL REMAINING TANK WITH SAND AND COMPACT APPROPRIATELY FOR ASPHALT RESTORATION.  
PAYMENT FOR THIS WORK IS INCLUDED IN ITEM 202, REMOVAL MISC.: DECOMMISSION EXISTING SEPTIC TANK.



PAVEMENT RESTORATION  
CONCRETE

ITEM 452 - 8" NON REINFORCED CONCRETE PAVEMENT  
ITEM 204 - SUBGRADE COMPACTION  
ITEM 408 - PRIME COAT (0.4 GALLONS/SQ YD)  
ITEM 304 - 8" AGGREGATE BASE  
ITEM 204 - SUBGRADE COMPACTION



PAVEMENT RESTORATION  
ASPHALT

RECEIVED

NOV 18 2011



ODOT 9  
Planning & Engineering

Transmittal

Attention: Tom Barnitz, P.E.

Date: 11/16/2011

Job No: 45878

To: ODOT District 9  
650 Eastern Ave  
Chillicothe, OH 45601

Phone: 740-774-8877

Regarding: SCI-823-6.81  
PID No. 19415  
Portsmouth Bypass, Phase 1  
Permit-to-Install Application, Church/Airport Sewer

We are sending you:  Attached  Under separate cover via \_\_\_\_\_ the following items  
 Shop drawings  Prints  Plans  Samples  Specifications  
 Copy of letter  Change Order  Other

Copies	Date	No.	Description
1	11/10/2011	4	Permit-to-Install/Plan Approval Application Form A
1	11/10/2011	4	Permit-to-Install/Plan Approval Application Form B1
1	11/10/2011	2	Signed and Sealed Sanitary Sewer Plans

These are transmitted as checked below:

- For approval  Approved as submitted  Resubmit \_\_\_\_\_ copies for approval
- For your use  Approved as noted  Submit \_\_\_\_\_ copies for distribution
- As requested  Returned for corrections  Return \_\_\_\_\_ corrected prints
- For review/comment  Other \_\_\_\_\_
- For bids due \_\_\_\_\_  Prints returned after loan to us

Remarks Please call if you have any questions or concerns.

Copy to Project File

Signed

If enclosures are not as noted, please notify us at once

Brad Hyre, P.E.

Attention: Bruce Goff	Date: 11/16/2011	Job No: 45878
To: ODOT Southeast District Office 2195 Front Street Logan, OH 43138		Phone: 740-385-8501

Regarding: SCI-823-6.81  
PID No. 19415  
Portsmouth Bypass, Phase 1  
Permit-to-Install Application, Church/Airport Sewer

**We are sending you:**     **Attached**     **Under separate cover via \_\_\_\_\_ the following items**

<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Prints	<input checked="" type="checkbox"/> Plans	<input type="checkbox"/> Samples	<input type="checkbox"/> Specifications
<input type="checkbox"/> Copy of letter	<input type="checkbox"/> Change Order	<input checked="" type="checkbox"/> Other		

Copies	Date	No.	Description
2	11/10/2011	4	Permit-to-Install/Plan Approval Application Form A
2	11/10/2011	4	Permit-to-Install/Plan Approval Application Form B1
4	11/10/2011	2	Signed and Sealed Sanitary Sewer Plans
1	11/10/2011	1	Payment to Ohio EPA of \$1013

**These are transmitted as checked below:**

<input checked="" type="checkbox"/> For approval	<input type="checkbox"/> Approved as submitted	<input type="checkbox"/> Resubmit _____ copies for approval
<input type="checkbox"/> For your use	<input type="checkbox"/> Approved as noted	<input type="checkbox"/> Submit _____ copies for distribution
<input type="checkbox"/> As requested	<input type="checkbox"/> Returned for corrections	<input type="checkbox"/> Return _____ corrected prints
<input type="checkbox"/> For review/comment	<input type="checkbox"/> Other _____	
<input type="checkbox"/> For bids due _____		<input type="checkbox"/> Prints returned after loan to us

Remarks    Sending for review and approval. Please call if you have any questions or comments.

Copy to    Project File, Tom Barnitz (District 9)    Signed

If enclosures are not as noted, please notify us at once

Brad Hyre, P.E.



**Permit-to-Install/Plan Approval Application**

FOR AGENCY USE ONLY		
Date Received: / /	Application/Revenue ID:	Organization ID:
Document ID:	Place ID:	Check ID:
Check Date: / /	Check Number:	Check Amount:

**1. Project Name:** ODOT Portsmouth By-Pass, Sunshine Church Sanitary Sewer

**2. Applicant** (see note after signature)

Name: Ohio Department of Transportation – District 9

Mailing Address: 650 Eastern Avenue

City: Chillicothe State: Ohio Zip: 45601

Contact Name: Tom Barnitz, P.E.

Title: Planning & Engineering Administrator

Phone: (740) 773-2691 Fax: (740) 775-4889 E-mail : Tom.Barnitz@dot.state.oh.us

**3. Application/Plans Prepared by:**

Name: HDR Engineering, Inc.

Mailing Address: 9987 Carver Rd Suite 200

City: Cincinnati State: Ohio Zip: 45242

Contact Name: Justin Bolender, P.E.

Title: Project Manager

Phone: (513) 984-7500 Fax: (513) 984-7580 E-mail : Justin.bolender@hdrinc.com

**4. Billing Address** (if different than Applicant)

Name: N/A

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Name: \_\_\_\_\_

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

Phone: ( ) - - Fax: ( ) - - E-mail : \_\_\_\_\_

**5. Future Owner** (if different than Applicant)

Name: Scioto County Sewage Department

Mailing Address: 602 Seventh Street, Room 104 Courthouse

City: Portsmouth State: Ohio Zip: 45662

Contact Name: Darren LeBrun

Title: Scioto County Sanitary Engineer

Phone: (740) 355-8249 Fax: (740) 353-8410 E-mail : dlebrun@sciotocounty.net

**6. Project Location**

Street Address or Location Description: In the vicinity of 20 Barklow Road, Portsmouth, OH 45662

County: Scioto Township: N/A

Municipality: Cincinnati, Ohio Latitude: 38.8390 Longitude: -82.8520

Method of Determination: Online tool

**7. Brief Project Description:** Project consists removal and decommission of an existing septic system at the Sunshine Church of Christ at 20 Barklow Road, Portsmouth, OH and installation of approximately 775 linear feet of 8" gravity sanitary sewer. The sewer will connect to the existing gravity sanitary sewer that serves the Scioto County Airport.

**8. Will one or more acres be disturbed during construction of this project?**  Yes  No

If **Yes**, enter the date the NOI for coverage under the construction storm water NPDES permit was submitted:    /   /    and the date coverage was granted:    /   /   

**9. Will wetlands be disturbed during construction of this project?**  Yes  No

If **Yes**, enter the date the 401/404 permit application was submitted:    /   /   

**10 a. Is this application part of a combined permit-to-install application?** (for example air + water)  Yes  No

**b. Has an application for a Class V injection well permit been submitted?**  Yes  No  N/A

If **Yes**, date submitted:    /   /   

**11. Compliance Status**

a. Will this project connect to a collection/treatment system that has a NPDES permit?  Yes  No

If **Yes**, list federal and state permit numbers:  

OH OPG00059*CD		
----------------	--	--

b. Is this application filed in compliance with findings and orders, a consent decree, and/or NPDES permit schedule?  Yes  No

If **Yes**, effective date of the document containing the schedule:    /   /   

**12. Compliance with 208 plan**

Does the project conform to the 208/201 plan for the area?  Yes  No  N/A

If **Yes**, has the engineer submitted supporting documentation?  Yes  No

**13. Designated Ohio, Wild, Scenic, & Recreational Rivers**

Is this project located within 1000 feet of a designated wild, scenic, and recreational river?  Yes  No

See <http://ohiodnr.com/?TabId=985> for additional information

**14. Estimated Project Schedule:**

Beginning construction date: 07/01/2012 Ending construction date: 11/01/2012 Beginning operation date: 9/1/2012

**15. Project Cost:**

\*Installation/Construction Cost: \$ 125,000 (Mark one):  Actual  Bid  Estimate

Annual Operation/Maintenance Cost (if applicable - this project only): \$ 500

Are Water Pollution Control Loan Funds going to be used for this project?  Yes  No

If **No**, Funding Source: Ohio Department of Transportation

*\*This is costs of the treatment/dispersal/collection system that will serve the project*



**16. Attachments**

The following are included in this application package (check appropriate box(es) and indicate how many copies of each are provided):

<input checked="" type="checkbox"/> Detail Plans	4 copies	<input type="checkbox"/> Management Plan	
<input type="checkbox"/> Soil Evaluation Form	_____	<input type="checkbox"/> Engineering Report	_____
<input type="checkbox"/> Hydrogeologic Site Investigation Report	_____	<input type="checkbox"/> Engineering Specifications	_____
<input type="checkbox"/> Site Evaluation Form	_____	<input type="checkbox"/> Sewer Authority Letter	_____
<input type="checkbox"/> Other (describe):	_____	<input type="checkbox"/> Antidegradation Addendum	_____
<input type="checkbox"/> Narrative Plans (LTCP, GP, etc.)			

**17. Form B / C Submission (check all that apply):**

- Sewer and Pump Station Construction – Form B1
- Onsite Sewage Treatment Systems – Form B2
- Wastewater Treatment Plants Less Than 100,000 GPD – Form B3
- Wastewater Treatment Plants Greater Than or Equal to 100,000 GPD and all Pond Systems – Form B4
- Industrial Direct Discharge Facility – Form B5
- Industrial Indirect Discharge Facility – Form B6
- Underground Storage Tank Remediation – Form B7
- Holding Tanks – Form B8
- Industrial Impoundment Ponds – Form B9
- Land Application Management Plan for Sludge or Waste other than Treated Sewage – Form C1
- Treated Sewage Land Application Management Plan – Form C2
- Sewage Holding Tank Management Plan – Form C3

**18. Fee Calculations:**

Permit-to-Install (maximum total fee \$15,100)

a. Application fee:	\$ 100.00
b. Plan review fee:	\$ 100.00
c. Plan review fee (installation/construction cost x .0065):	\$ 813.00
d. Total Fee (a + b + c):	\$ 1013.00

*\* No separate fee is needed for land application*

**19. Antidegradation**

Is this project subject to the Antidegradation Rule (OAC 3745-1-05)?

Yes  No

If **Yes**, an antidegradation addendum must be submitted (Note: It applies even if an exclusion and/or waiver is met)

If **No**, check all that apply:

- Application with no direct surface water discharge (Projects that do not meet the applicability section of 3745-1-05 (B)1, i.e., onsite sewage treatment systems, sanitary sewer extensions, indirect discharger to POTW, etc.).
- Renewal NPDES application or PTI application with no requested increase in loading of currently permitted pollutants.
- Narrative Plans (Examples: LTCP, Land Application, General Plans, etc.)

**20. Submittals:**

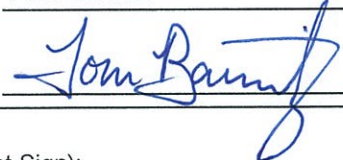
To be considered complete, this application must include the following unless otherwise directed by Ohio EPA:

- Four copies of the detail plans including profile and plan views of all sewers (shown on the same sheet), existing (as applicable) and proposed pump station facilities, incorporating all of the details outlined in Section 20.1, 20.2 and 20.3 of *Recommended Standards for Wastewater Facilities*.
- Two copies of complete technical specifications. (*Refer to ODOT CMS, no specifications included in submittal*)
- Two copies of the Permit-to-Install Application including Form A, pertinent B & C form(s), and the antidegradation addendum (*if applicable*)
- Fee check payable to "Treasurer, State of Ohio."

**21. Signature of the Applicant:** (see Ohio Administrative Code 3745-42-03)

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that all the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are substantial penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

Typed name: Tom Barnitz Title: Planning & Engineering Administrator

Signature:  Date: 11/10/11

**NOTE (Who Must Sign):**

The person signing as Applicant is not the applicant's engineer or architect or any other person submitting the Permit-to-Install Application on behalf of the owner. The Applicant should be owner of the facility, business, corporation, company, etc. or the legal responsibly entity. It is not the engineer who prepared the plans.



**Permit-to-Install/Plan Approval Application**

Sanitary Sewers

**FOR AGENCY USE ONLY**

Application Number: \_\_\_\_\_ Date Received: / /

Applicant: Ohio Department of Transportation  
 Facility Owner: Ohio Department of Transportation  
 Ultimate owner (if different): Scioto County Sewage Department  
 Application/Plans Prepared by: HDR Engineering, Inc. 9987 Carver Rd., Suite 200, 45242  
 Project Name: ODOT Portsmouth By-Pass, Sunshine Church Sanitary Sewer

**1. Project Description**

- a. Describe the location, size and current development of the area to be served. List street address, township, county, and include longitude and latitude coordinates in describing location: The project is located in Scioto County, Ohio at the Sunshine Church of Christ at 20 Barklow Road, Portsmouth, OH 45662, adjacent to the Scioto County Airport. The project area consists of the church and airport property. Lat: 38.8390, Long: -82.8520.
- b. What is the possibility that future sanitary sewer extensions will connect to the sanitary sewers which are the subject of this application? The possibility is low. This sewer will only serve the church.
- c. Are there any pump stations included as part of this sewer construction?  Yes  No  
 (If Yes, fill out attachment to Form B1)
- d. Indicate type(s) of sewers proposed (check all that apply):
- Conventional gravity  Small diameter gravity (w/septic tanks)  Pressure (GP or STEP)  
 Vacuum  Siphon  Force main (must include pump station)

**2. Pipe Specifications**

Please identify each type (as indicated in 1d above) and size of pipe included in this project.

Type	Pipe Size	Pipe Material	Material *	Joint*	Bedding**	Minimum Slope	Pipe Length	Maximum Manhole Spacing
Gravity	8-inch	PVC SDR 35	ASTM F-679	ASTM 3212	ASTM D-2321 Class I & II	0.94%	778 Linear Feet	304 Feet

\* List ASTM, AWWA, or ANSI specification number. For any specification that does not appear on Ohio EPA's pipe specification list, the applicant shall submit the standard for approval with the Permit-to-Install.

\*\* 100 percent to pass 3/4-1.0 inch sieve. ASTM C-12 (A, B, C), D-2321 (IA, IB, II, III), or other.  
 Ohio EPA Approvable Pipe Specification List: <http://www.epa.ohio.gov/dsw/pti/PipeSpecs.aspx>

### 3. Design Flow in Proposed Sewer

Identify flows expected at start-up (for example, currently existing flows plus design flow for this project) and the flows expected at design (for example, start-up flows plus flows from future phases of development) at terminus of proposed sewer.

	Average Daily Flow		Peak Hourly Flow	
Start-Up Flows (based on immediate area served) (8" Grav)	0.0021	MGD	0.0088	MGD
Design Flows (based on planned area served) (8" Grav)	0.0021	MGD	0.0088	MGD
Hydraulic Capacity of Sewer (8" Gravity)	0.25	MGD	0.25	MGD
Assumptions used to calculate above flows: (check all that apply)	Start-Up		Design	
<input type="checkbox"/> Residential Population at: _____ gal/home* _____ homes _____ homes				
<input type="checkbox"/> Residential Population at: _____ gal/cap/day _____ people _____ people				
<input checked="" type="checkbox"/> Non-Residential Flows (for example commercial, industrial, etc.):	0.0021	MGD	0.0088	MGD
<input type="checkbox"/> Computer Flow Modeling Results (MSD System Model)				

\*120 gallon/bedroom in accordance w/ OAC 3745-42-05 unless additional information is submitted

### 4. Receiving Wastewater Treatment Facility

a. What treatment facility will be receiving flow from these sewers?

Scioto County Airport Plant

Present treatment facility average daily flow 0.0021 MGD (based on 2011 (month/year) ADF)\*

Proposed treatment facility average daily flow (based on present average daily flow plus all connections currently under construction or being designed) N/A MGD

Design average daily flow of the treatment facility 0.005 MGD (based on 1994 design year)

b. Does the treatment facility have adequate capacity to treat anticipated flows from existing sewers plus the proposed sewers based on the sewer's design capacity?  Yes  No

If **No**, on a separate sheet, please describe the steps being taken to ensure that the treatment facility has adequate capacity. Include specific work items and schedules as appropriate.

c. Is there intent to expand the treatment facility to treat additional flows?  Yes  No

\*Note: Flow data to be no older than one calendar year from date of PTI submission

### 5. Sewer Design

a. Are the sewers deep enough to serve all adjacent basements? (refer to GLUMRB, *Recommended Standards for Wastewater Facilities*, 2004, Section 33.2)  Yes  No

If **No**, please explain how the basements will be served:

b. Are sewers at a sufficient depth to prevent freezing? (GLUMRB Section 33.2)  Yes  No

If **No**, please explain how freezing will be prevented:

c. Where small sewers join larger ones, have the inverts of the larger sewers been lowered sufficiently to maintain the same energy gradient? (GLUMRB Section 33.6)  Yes  No  N/A

d. Have provisions been made to protect sewers against displacement by erosion and impact at velocities over 15 fps? (GLUMRB Section 33.45)  Yes  No  N/A

e. Are sewers with slopes greater than 20 percent secured with concrete anchors (or equal), spaced as required? (GLUMRB Section 33.46)  Yes  No  N/A

f. Are there any overflows or bypasses upstream of the point of connection that may be impacted by the flows from the new sewer?  Yes\*  No

g. Are there any sanitary overflows or bypasses or combined sewer overflows downstream of the point of connection?  Yes\*  No

\*(If **Yes** to f. or g., on a separate sheet provide a description of the exact location of any overflows or bypasses)

h. Is the force main designed to withstand water hammer pressures and associated cyclic reversal of stresses that are expected with the cycling of wastewater pump stations? (GLUMRB Section 49.4)  Yes  No  N/A

If **No**, please explain:

**6. Stream Protection**

a. Are there any stream crossings? (If **Yes**, fill out the stream evaluation addendum)  Yes\*  No

If **Yes**,

1. How many crossings are made? (GLUMRB Section 36.14) Number of crossings: \_\_\_\_\_

2. Are the crossings perpendicular to the stream? (GLUMRB Section 36.14)  Yes  No

3. Are crossings to be made at previously disturbed areas?  Yes  No

4. Is the streambed substrate composed primarily of solid rock, sand and gravel, or silt?  Rock  Sand/gravel  Silt

5. In areas of steep slope or unstable soils, are the sewers located on more level, terraced areas?  Yes  No  N/A

6. Are the sewers at a sufficient depth to protect the sewer line? (GLUMRB Section 36.11)  Yes  No  N/A

b. Do any sewers run parallel to any streams?  Yes\*  No

If **Yes**,

1. Is there any woody vegetation along the stream banks?  Yes  No

2. Are the sewers and construction easements located outside of the vegetated areas?  Yes  No  N/A

3. In areas of steep slope or unstable soils, are the sewers located on more level, terraced areas?  Yes  No  N/A

*\* If the response to either a. or b. is Yes, please provide the specific measures in the detail plans and specifications that will be used to ensure that damage to the stream corridor is minimized to the greatest extent possible and that the stream corridor is restored to original condition.*

**7. Manhole Design**

a. Manhole type (precast, cast-in-place, etc.): Precast

b. Material specification (ASTM): C478

c. Joint specification (ASTM): C443

d. Are watertight frames and covers used wherever manhole tops may be flooded by street runoff or high water? (GLUMRB Section 34.6)  Yes  No  N/A

If **No**, explain\*:

e. Are manholes provided at the upstream end of each line? (GLUMRB Section 34.1)  Yes  No

If **No**, explain\*:

f. Are manholes provided at all changes in size, grade, and alignment? (GLUMRB Section 34.1)  Yes  No

If **No**, explain\*:

g. Are manholes provided at all sewer intersections? (GLUMRB Section 34.1)  Yes  No

If **No**, explain\*:

h. Are drop manholes provided where the entrance sewer invert is 24 inches or more above the manhole invert? (GLUMRB Section 34.2)  Yes  No  N/A

If **No**, explain\*:

i. Are inlet/outlet pipes connected with gasketed flexible watertight connections? (GLUMRB Section 34.6)  Yes  No

If **No**, explain\*:

*\* Attach any additional sheets necessary for explanations.*

**8. Protection of Water Supplies**

a. Are there any physical connections between the sewer and a public or private potable water supply system (including all appurtenances)? (GLUMRB Section 38.1)  Yes  No

b. Are any existing public waterworks units (for example public supply wells, water treatment facilities, storage facilities) within 200 feet of the proposed sewer or any private wells within 50 feet of the proposed sewer? (GLUMRB Section 38.2)  Yes  No

If **Yes**, specify the plan sheets on which the sources are shown:

If **Yes**, will sewers be encased or constructed of watertight pipe?  Encased  Watertight

c. Are the sewers at least 10 feet horizontally separated from water lines? (GLUMRB Section 38.31)  Yes  No

If **No**, please specify the plan sheets where these conditions are not met & describe the measures taken to ensure protection of the water system: Sheet 4. 10" is parallel to sewer. Sewer is 15' below water.

d. When crossing water mains, are the sewers at least 18 inches below water lines?  Yes  No

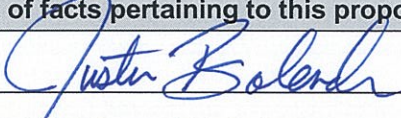
If **No**, please specify the plan sheets on which these conditions are not met and describe the measures taken to ensure protection of the water system:

9. Installation and Testing	
a. Installation Inspector:	
Name: _____	Firm: Ohio Department of Transportation
Street Address: 650 Eastern Avenue	Phone: (740) 773-2691
City: Chillicothe	State: Ohio
	Zip: 45601
b. What type of sewer leakage test will be used? (GLUMRB 33.9)	<input type="checkbox"/> Hydrostatic <input checked="" type="checkbox"/> Air
Page numbers in specifications for testing requirements of gravity and pressure sewers:	ODOT Supl. Spec Sec. 802
c. Is flexible pipe deflection testing specified? (GLUMRB 33.85)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Page numbers in specifications for testing requirements of flexible pipe:	ODOT Supl. Spec Sec. 802
d. What type of manhole testing will be used? (GLUMRB Section 34.7)	Vacuum, ASTM C1244
Page numbers in specifications for testing requirements of manholes:	ODOT Supl. Spec Sec. 802

10. Sewer Use Ordinance	
A statement that "Roof drains, foundation drains, and other clean water connections to the sanitary sewer system are prohibited" must be shown on the plans. Copies of the ordinances or regulations providing for the enforcement of this requirement must be on file with Ohio EPA.	
a. An ordinance/regulation to this effect was adopted on: 12/21/1970	(date).
b. Enforcement of this ordinance/regulation is the responsibility of:	
Name: Darren LaBrun	
Title: Scioto County Sanitary Engineer	
c. It is the opinion of the engineer submitting these plans that adequate enforcement of this ordinance/regulation is being properly carried out.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown

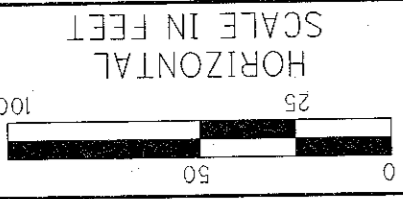
11. Authorities	
a. Plans for the proposed installation of a county, village, or municipal sewer that is tributary to a sewage treatment plant with another political entity must be accompanied by written consent of both entities.	
Is a written inter-municipal agreement attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If <b>No</b> , state what form of consent is provided:	

12. Submittals:	
This application must include the following unless otherwise directed by Ohio EPA:	
<input checked="" type="checkbox"/> Four copies of the detail plans including profile and plan views of all sewers (shown on the same sheet), existing (as applicable) and proposed pump station facilities, incorporating all of the details outlined in Section 20.1, 20.2 and 20.3 of <i>Recommended Standards for Wastewater Facilities</i> .	
<input type="checkbox"/> Two copies of complete technical specifications. ( <b>Refer to ODOT CMS, not included in submittal</b> )	
<input checked="" type="checkbox"/> Two copies of the Application including Form A, pertinent B & C form(s), and antidegradation addendum (if applicable)	

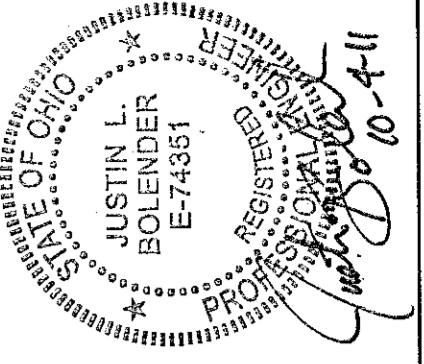
13. The foregoing data is a true statement of facts pertaining to this proposed sanitary sewer installation.	
Date: 10/19/11	Signed:  P.E.
Plans prepared by: HDR Engineering, Inc. 9987 Carver Rd. Suite 200 45242	

PLAN AND PROFILE  
SANITARY SEWER

CALCULATED  
JLB  
CHECKED  
LBD



PAID  
Amount \$113,485.00, Date 11/17/11  
Check# 1113485, Date 11/17/11



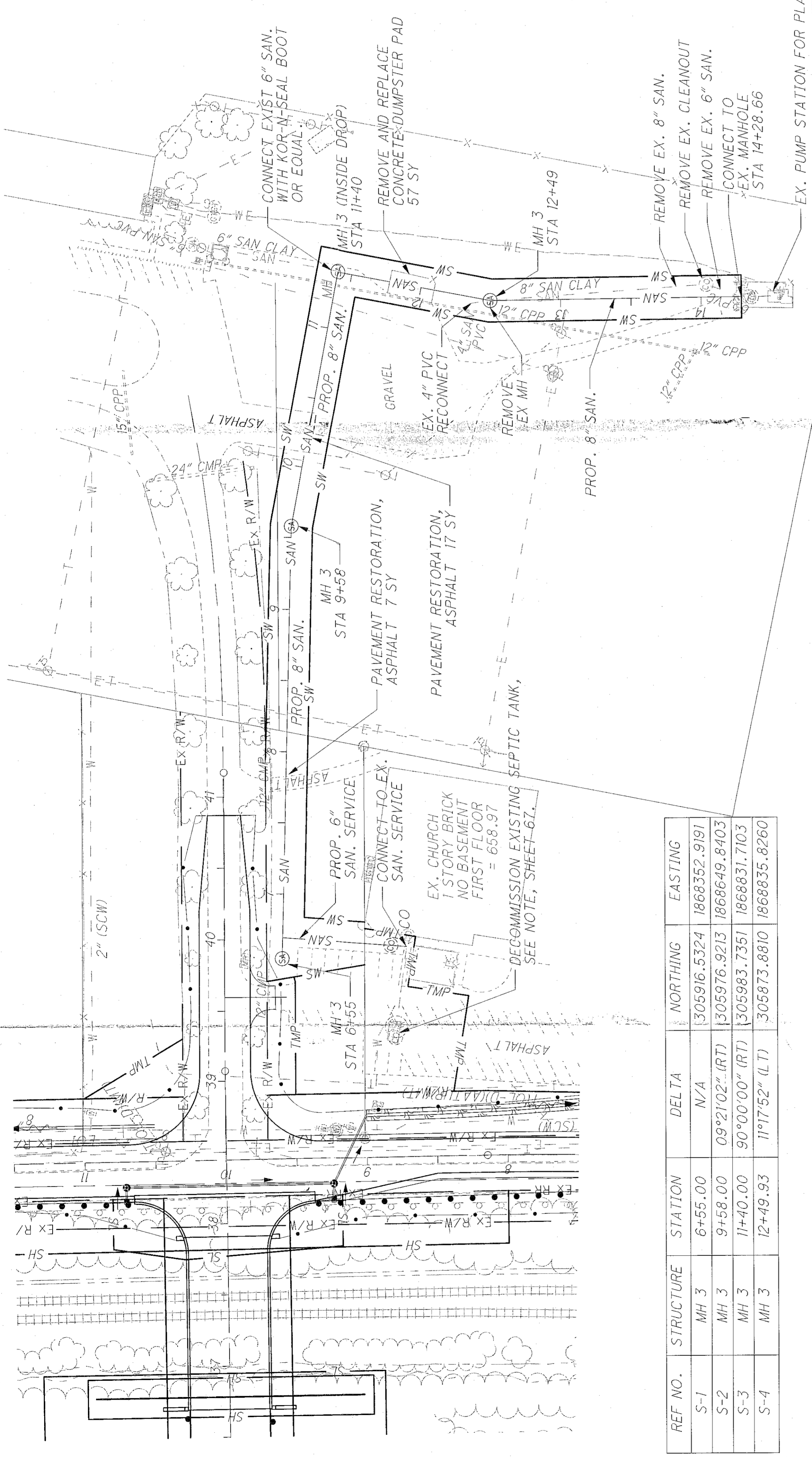
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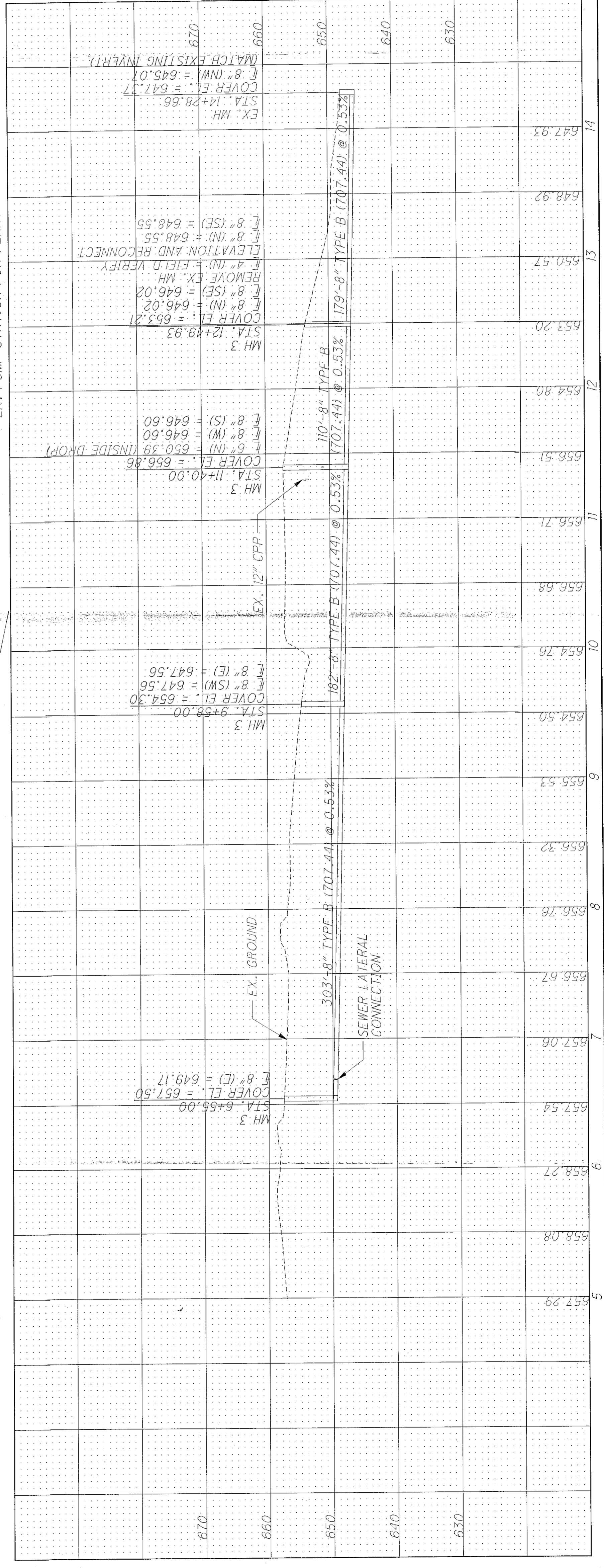
837881  
APPROVED  
SEWERAGE  
OUR ENVIRONMENTAL PROTECTION AGENCY  
AS EVIDENCED BY COPY OF  
LETTERS OF APPROVAL  
HERE TO ATTACHED

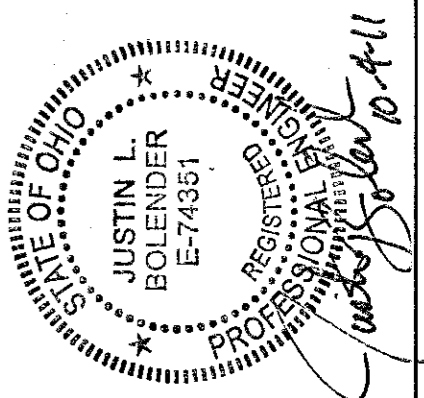
NOTE:  
SEE SANITARY NOTES, ESTIMATED  
QUANTITIES AND PAVEMENT RESTORATION  
DETAILS ON SHEET 67

NOTE:  
ROOF DRAINS, FOUNDATION DRAINS, AND  
OTHER CLEAN WATER CONNECTIONS TO THE  
SANITARY SEWER SYSTEM ARE PROHIBITED.



REF NO.	STRUCTURE	STATION	DELTA	NORTHING	EASTING
S-1	MH 3	6+55.00	N/A	305916.5324	1868352.9191
S-2	MH 3	9+58.00	09°21'02" (RT)	305976.9213	1868649.8403
S-3	MH 3	11+40.00	90°00'00" (RT)	305983.7351	1868831.7103
S-4	MH 3	12+49.93	11°17'52" (LT)	305973.8810	1868835.8260





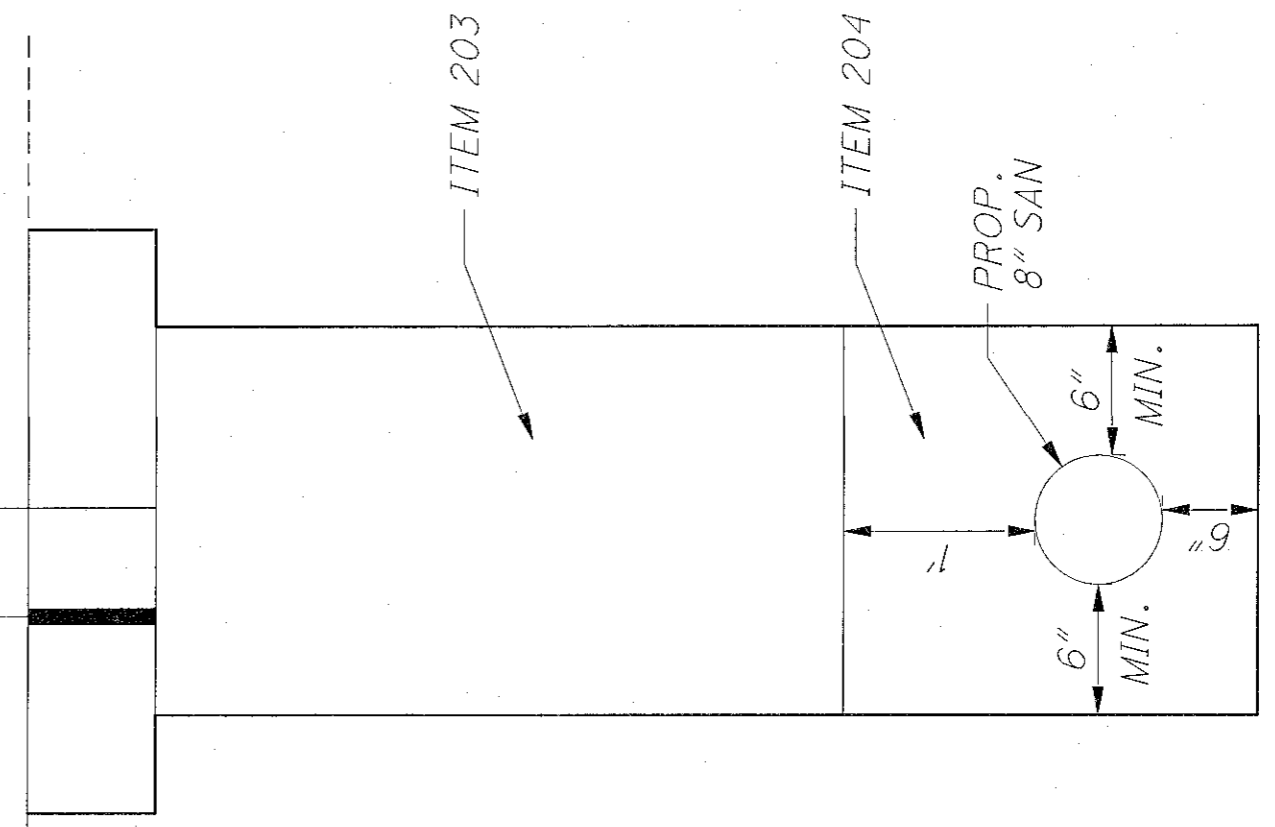
REF NO.	STATION		SIDE	PIPE REMOVED, 24" AND UNDER	202		PAVEMENT REMOVED	SUBGRADE COMPACTION	304	408	442	442	452	603	604	604	603	
	FROM	TO			MANHOLE REMOVED	MISC. DECOMMISSION EX. SEPTIC TANK												SO. YD.
	5+00.00	5+93.00		FT	EACH	1												
S-1	6+55.00	9+58.00					7		3	1				303	1			88
S-2	9+58.00	11+40.00					17		7	1				182	1			
S-3	11+40.00	12+49.93				57							57	10		1		
S-4	12+49.93	14+28.66												179	1			
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>						181	1	57	81	6	10	2	57	774	3	1		88

NOTE: DECOMMISSION EXISTING SEPTIC TANK  
CONTACT SCIOTO COUNTY HEALTH DEPARTMENT  
FOR INSPECTION DURING REMOVAL.  
PHONE# (740) 354-3241

PUMP AND PROPERLY DISPOSE OF TANK CONTENTS.  
DEMOLISH TOP OF CONCRETE TANK DOWN TO A  
MINIMUM 3 FEET DEPTH TO ASPHALT SURFACE.  
CAP INLET AND OUTLET PIPES WITH GROUT  
STOPPER.

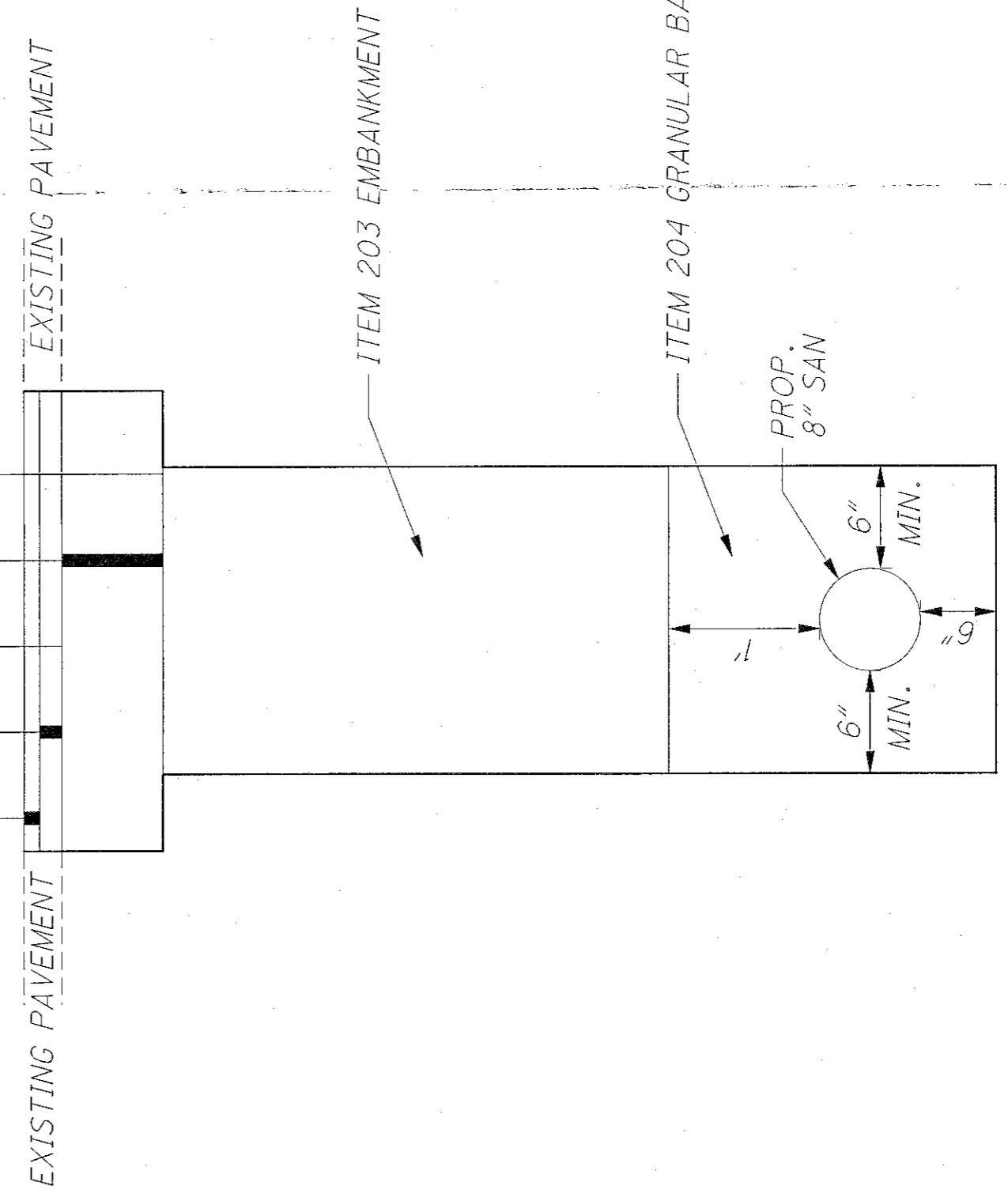
FILL REMAINING TANK WITH SAND AND COMPACT  
APPROPRIATELY FOR ASPHALT RESTORATION.  
PAYMENT FOR THIS WORK IS INCLUDED IN  
ITEM 202, REMOVAL MISC.: DECOMMISSION EXISTING  
SEPTIC TANK.

ITEM 152 - 8" NON REINFORCED CONCRETE PAVEMENT  
ITEM 204 - SUBGRADE COMPACTION

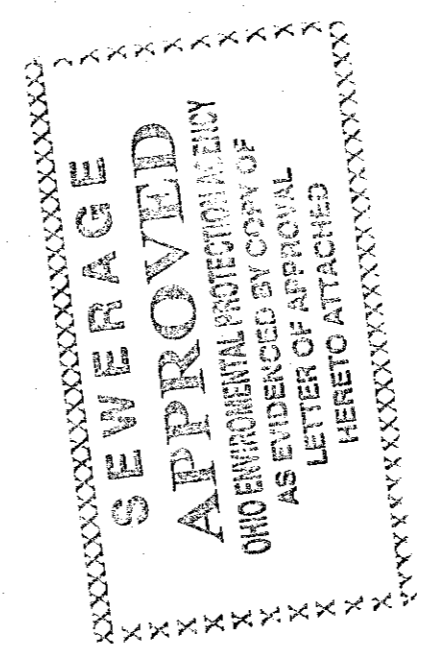


PAVEMENT RESTORATION  
CONCRETE

ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)  
ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)  
ITEM 408 - PRIME COAT 10.4 GALLONS/SQ YD  
ITEM 304 - 8" AGGREGATE BASE  
ITEM 204 - SUBGRADE COMPACTION



PAVEMENT RESTORATION  
ASPHALT



NOTE: ROOF DRAINS, FOUNDATION DRAINS, AND  
OTHER CLEAN WATER CONNECTIONS TO THE  
SANITARY SEWER SYSTEM ARE PROHIBITED.





**Environmental  
Protection Agency**

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

RECEIVED

DEC 12 2011

ODOT 9  
Planning & Engineering

December 07, 2011

Re: Portsmouth  
Scioto County  
Application No. 837881  
Application for Gravity Sewer for Ohio  
Department of Transportation Portsmouth By-  
Pass, Sunshine Church Sanitary Sewer  
Extension  
Plans Received on November 17, 2011  
From: HDR Engineering Inc.  
**CERTIFIED MAIL**

Ohio Department of Transportation - District 9  
Attn: Tom Barnitz, PE, Planning/Engineering Admin  
P.O. Box 467, 650 Eastern Avenue  
Chillicothe, OH 45601

Ladies and Gentlemen:

Enclosed is the Ohio EPA Permit to Install which will allow you to install the described source in the manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

You should note that a general condition of your permit states that issuance of the permit does not relieve you of the duty of complying with all applicable federal, state, and local laws, ordinances, and regulations.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel", which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address: Environmental Review Appeals Commission, 77 South High Street, 17th Floor, Columbus, OH 43215.

If you have any questions, please contact the Ohio EPA district office to which you submitted your application.

Sincerely,

Patti L. Smith, Supervisor  
Permit Processing Unit  
Division of Surface Water

PLS/sg  
Enclosure

cc: Southeast District Office  
Scioto County Engineer  
HDR Engineering Inc.

# Ohio Environmental Protection Agency

## Permit to Install

Application No: 837881

Applicant Name: Ohio Department of Transportation - District 9  
Address: P.O. Box 467, 650 Eastern Avenue  
City: Chillicothe  
State Zip: OH 45601

Person to Contact: Tom Barnitz, PE, Planning/Eng Admin  
Telephone: 740-773-2691

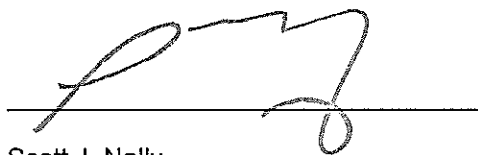
Description of Proposed Source: Gravity Sewer for Ohio Department of Transportation Portsmouth By-Pass, Sunshine Church Sanitary Sewer Extension, Portsmouth, Scioto County

Issuance Date: December 07, 2011

Effective Date: December 07, 2011

The above named entity is hereby granted a permit to install for the above described source pursuant to Chapter 3745-42 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source of environmental pollutants will operate in compliance with applicable state and federal laws and regulations. Issuance of this permit does not constitute expressed or implied assurance that, if constructed or modified in accordance with those plans and specifications, the above described source of pollutants will be granted the necessary operating permits. This permit is granted subject to the following conditions attached hereto.

Ohio Environmental Protection Agency

A handwritten signature in black ink, appearing to read 'S. Nally', is written over a horizontal line.

Scott J. Nally  
Director  
P.O. Box 1049  
50 West Town Street, Suite 700  
Columbus, OH 43216-1049

This permit shall expire if construction has not been initiated by the applicant within eighteen months of the effective date of this permit. By accepting this permit, the applicant acknowledges that this eighteen month period shall not be considered or construed as extending or having any effect whatsoever on any compliance schedule or deadline set forth in any administrative or court order issued to or binding upon the permit applicant, and the applicant shall abide by such compliance schedules or deadlines to avoid the initiation of additional legal action by the Ohio EPA.

The director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, examining records, or reports pertaining to the construction, modification, or installation of the above described source of environmental pollutants.

Issuance of this permit does not relieve you of the duty of complying with all applicable federal, state, and local laws, ordinances, and regulations.

Any well, well point, pit, or other device installed for the purpose of lowering the ground water level to facilitate construction of this project shall be properly abandoned in accordance with the provisions of this plan or as directed by the director or his representative.

Any person installing any well, well point, pit or other device used for the purpose of removing ground water from an aquifer shall complete and file a Well Log and Drilling Report form with the Ohio Department of Natural Resources, Division of Water, within 30 days of the well completion in accordance with the Ohio Revised code Section 1521.01 and 1521.05. In addition, any such facility that has a capacity to withdraw waters of the state in an amount greater than 100,000 gallons per day from all sources shall be registered by the owner with the chief of the Division of Water, Ohio Department of Natural Resources, within three months after the facility is completed in accordance with Section 1521.16 of the Ohio Revised Code. For copies of the necessary well log, drilling report, or registration forms, please contact:

Ohio Department of Natural Resources  
2045 Morse Road Bldg. E  
Columbus, OH 43229-6693  
(614) 265-6717

The proposed wastewater disposal system shall be constructed in strict accordance with the plans and application approved by the director of the Ohio Environmental Protection Agency. There shall be no deviation from these plans without the prior express, written approval of the agency. Any deviations from these plans or the above conditions may lead to such sanctions and penalties as provided for under Ohio law. Approval of these plans and issuance of this permit does not constitute an assurance by the Ohio Environmental Protection Agency that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction area for this project is one acre or more, or is part of a larger development that is one acre or more, the applicant must submit a Notice of Intent (NOI) for coverage under the general construction stormwater permit to Ohio EPA at least 21 days prior to the start of construction of this project.

For projects involving construction or placement of fill in a stream or wetland, the applicant shall contact the appropriate district of the U.S. Army Corps of Engineers for a determination regarding potential impacts to water of the state as well as the requirements for obtaining, if necessary, certification. The applicant shall acquire a Section 404 permit and 401 water quality certification, if needed, before impacting any waters of the state as part of this project.

The Scioto County Sewage Department shall be responsible for proper operation and maintenance of the sewerage system.

For parallel installation, a minimum horizontal separation of 10 feet between gravity sanitary sewers and any existing or proposed potable water mains shall be maintained. The distance shall be measured edge to edge.

Where gravity sewer lines cross existing or proposed water mains, the gravity sewer lines shall be laid below the water mains to provide a separation of at least 18 inches between the invert of the water main and the crown of the gravity sewer. The lines shall be laid so that the gravity sewer line joints are as far as possible from the water main joints.

The operation of the sewerage system shall be under the responsible charge of a certified operator having the proper certificate issued under Chapter 3745-7-05 of the Ohio Administrative Code.

This permit to install applies only to the wastewater disposal system listed above. The installation of drinking water supplies, air contaminant sources, or solid waste disposal facilities will require the submittal of a separate application to the director.

Roof drains, foundation drains, and other clean water connections to the sanitary sewer shall be prohibited by enforcement of legally adopted rules by the authority regulating the use of sanitary sewers.

Sewer and manhole construction joints shall conform to standards of the Ohio Environmental Protection Agency.

When flexible pipe (PVC, ABS, HDPE, etc.) is used it must be tested for maximum deflection of 5 percent after the final backfill has been in place no less than 30 days to permit stabilization of the soil-pipe system. Pipe with a stiffness of 200 p.s.i. or greater need not be tested for deflection if all pipe between manholes is less than 12 feet below final grade.

The rigid ball or mandrel used for the deflection test shall have a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM specification, including the appendix, to which the pipe is manufactured. The test shall be performed without mechanical pulling devices.

All pipe, flexible and rigid, shall be subject to a leakage test. The leakage exfiltration/infiltration test shall be a hydrostatic or air test. The hydrostatic leakage test shall not exceed 100 gallons per inch of pipe diameter per mile per day for any section of the system. If an air test is used, the test shall conform to the test procedure outlined in the ASTM standards for the material of pipe used.

The leakage and deflection test shall be conducted under the supervision of a professional engineer. A representative of the professional engineer may supervise the deflection and leakage tests, but the professional engineer must sign off on the results of the deflection and leakage tests. Results of the deflection and leakage tests shall be kept on file at least 180 days by the entity responsible for the sewerage system, and shall be available upon request by the Ohio Environmental Protection Agency. Any lines which fail the deflection or leakage test must be repaired and retested until they meet the requirements which have been set forth within this condition.

All gravity sanitary sewers which are located in well field areas shall comply with and be tested as specified in Ohio Environmental Protection Agency Guideline, Gravity Sewers in Well Field Areas, February 1983.

Any well, well point, pit or other device installed for the purpose of lowering the ground water level to facilitate construction of this project shall be properly abandoned in accordance with the provisions of Section 3745-9-10 of the Ohio Administrative Code or in accordance with the provisions of this plan or as directed by the Director or his representative. Division of Drinking and Ground Water - Lazarus Government Center, 50 West Town Street, Suite 700, Columbus, Ohio 43215 (614) 644-2752.

The permit to install is not an authorization to discharge pollutants to waters of the state. Pursuant to Chapter 6111 of the Ohio Revised Code, the applicant shall apply for a permit to discharge (NPDES) 180 days prior to any discharge of pollutants to waters of the state.

Fugitive dust generated by this sewer construction project shall be controlled as specified in OAC 3745-17-08 (B).

**Report on the Permit to Install for Installation of  
Gravity Sewer  
To Serve the Sunshine Church  
PTI No. 837881  
November 28, 2011**

On November 17, 2011, an Application for Permit to Install (PTI) and detailed engineering plans and specifications for the Sunshine Church were received in our office.

**Documents Received and Reviewed:**

4 sets of detailed drawings and appropriate form a and b.

**Design Engineer:**

HDR Engineering, Inc.  
9987 Carver Road Suite 200  
Cincinnati, Ohio 45242

**Applicant\Permittee:**

Ohio Department of Transportation  
District 9  
650 Eastern Avenue  
Chillicothe, Ohio 45601

**Ultimate Owner:**

Scioto County Sewage Department  
602 Seventh Street, Room 104  
Courthouse  
Portsmouth, Ohio 45662

**Background/Description of Project:**

To tie in Sunshine Church of Christ on Barklow Road to existing sanitary sewer that serves the Portsmouth Regional Airport. This is part of the Portsmouth Bypass Project.

**Design Flow and Basis for the Design Flow:**

0.0021 mgd based on non-residential flows.

**Sewer System/Treatment Works the Project Will be Tributary to:**

Portsmouth Regional Airport plant operated by Scioto County Commissioners.

**Location/Description of Connection**

Tie into new sewer line at front of church with 6" lateral and connect lateral to 8" sewer

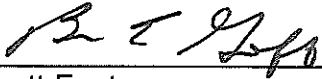
Flood Protection Issues, Y or N	N
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**Estimated Costs:**

The estimated cost of this project is \$125,000.00.

**Conclusions and Recommendations:**

The detail plans and specifications for the Sunshine Church have been reviewed, appear acceptable and are recommended for approval.

  
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f Scott Foster  
District Representative  
Division of Surface Water

  
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Bruce E. Goff, P.E.  
Supervisor/Permits Section  
Division of Surface Water

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