

2020 Retaining Wall Project Questions

Q: Are you accepting alternate wall systems?

A: No, we are not accepting alternate wall systems.

Q: Do you have a Michigan Department of EGLE permit for the project and is it paid for?

A: Yes. It is also already paid for. It is attached for your reference.

Q: Do you have a MDOT permit for this project?

A: Yes. It is attached for your reference. Note that this permit is only valid for working in MDOT's Right-of-Way and **does not** include any language for lane closures. If the Contractor wants to close a lane on M-21, it is their responsibility to get an MDOT permit for the lane closure.

Q: What if the geotechnical design causes additional excavation, geotextile, backfill?

A: An estimate given the **preliminary** geotechnical review results in **approximately** 300 cubic yards of soil to be removed from behind the existing wall.

Q: Can you provide direction as to where [Vertica Pro – Straight Faced block] may be available?

A: This is a link to Anchor Wall's website with suppliers for the block: <https://www.anchorwall.com/where-to-buy?postalcode=48867&distance=250&product=62>

Q: Can you please clarify line item #1 on the proposal form – “geotechnical investigation and design”? Seeing as the geotechnical report is already published for the bidding documents, is this line item strictly related to the design of the retaining wall?

A: The geotechnical report included in the bid documents is for information only. Those tests were done in 2014 when a different type of wall was being considered. For this project, a new geotechnical investigation and design shall be done in accordance with the Special Provision “Geotechnical Investigation and Design”.



NOTICE OF AUTHORIZATION

Permit Number: WRP017546 v. 1
Site Name: 78 - City of Owosso Retaining Wall

Date Issued: July 25, 2019
Expiration Date: July 25, 2024

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, P.O. Box 30458, Lansing, Michigan 48909-7958, under provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; specifically:

- Part 31, Floodplain Regulatory Authority of the Water Resources Protection.
- Part 301, Inland Lakes and Streams.
- Part 303, Wetlands Protection.
- Part 315, Dam Safety.
- Part 323, Shorelands Protection and Management.
- Part 325, Great Lakes Submerged Lands.
- Part 353, Sand Dunes Protection and Management.

Authorized activity:

Remove and rebuild approximately 110 feet of 10-foot high by 2.2-foot wide retaining wall with concrete block (approximately 97 cubic yards). Remove and reconstruct with approximately 3775 square feet of 4-inch thick sidewalk. The proposed project will result in net 12 cubic yards of fill in the 100-year floodplain.

To be conducted at property located in: Shiawassee County, Waterbody: Shiawassee River
Section 24, Town 07N, Range 02E, City of Owosso

Permittee:
Clayton Wehner
City of Owosso
301 W Main Street
Owosso, MI 48867

James Watling, PE
Transportation Review Unit
Water Resources Division
517-599-9002

*This notice must be displayed at the site of work.
Laminating this notice or utilizing sheet protectors is recommended.*
Please refer to the above permit number with any questions or concerns.

EGLE-WRD
WRP017546 v1.0
Approved
Issued On:07/25/2019
Expires On:07/25/2024



**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
WATER RESOURCES DIVISION PERMIT**

Issued To:

**City of Owosso
301 W Main Street
Owosso, MI 48867**

Permit No: WRP017546 v.1
Submission No.: HNN-HX94-VD2DH
Site Name: 78 - City of Owosso Retaining Wall
Issued: July 25, 2019
Revised:
Expires: July 25, 2024

This permit is being issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division (WRD), under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA); specifically:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Part 301, Inland Lakes and Streams | <input type="checkbox"/> Part 323, Shorelands Protection and Management |
| <input type="checkbox"/> Part 303, Wetlands Protection | <input type="checkbox"/> Part 325, Great Lakes Submerged Lands |
| <input type="checkbox"/> Part 315, Dam Safety | <input type="checkbox"/> Part 353, Sand Dunes Protection and Management |
| <input checked="" type="checkbox"/> Part 31, Water Resources Protection (Floodplain Regulatory Authority) | |

Permission is hereby granted, based on permittee assurance of adherence to State of Michigan requirements and permit conditions, to:

Authorized Activity:

Remove and rebuild approximately 110 feet of 10-foot high by 2.2-foot wide retaining wall with concrete block (approximately 97 cubic yards). Remove and reconstruct with approximately 3775 square feet of 4-inch thick sidewalk. The proposed project will result in net 12 cubic yards of fill in the 100-year floodplain.

Waterbody Affected: Shiawassee River
Property Location: Shiawassee County, City of Owosso, Town/Range/Section 07N02E24
Property Tax No.

Authority granted by this permit is subject to the following limitations:

- A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
- B. The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31 of the NREPA.

**EGLE-WRD
WRP017546 v1.0
Approved
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Expires On:07/25/2024**

- C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
- D. All work shall be completed in accordance with the approved plans and specifications submitted with the application and/or plans and specifications attached to this permit.
- E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved.
- F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with 2013 PA 174 (Act 174) and comply with each of the requirements of Act 174.
- G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits, or complying with other state statutes.
- H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
- I. Permittee shall notify EGLE within one week after the completion of the activity authorized by this permit by completing and forwarding the attached preaddressed postcard to the office addressed thereon.
- J. This permit shall not be assigned or transferred without the written approval of EGLE.
- K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific state act, federal act, and/or rule under which this permit is granted.
- L. All dredged or excavated materials shall be disposed of in an upland site (outside of floodplains, unless exempt under Part 31 of the NREPA, and wetlands).
- M. In issuing this permit, EGLE has relied on the information and data that the permittee has provided in connection with the submitted application for permit. If, subsequent to the issuance of a permit, such information and data prove to be false, incomplete, or inaccurate, EGLE may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
- N. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents, and representatives for any and all claims or causes of action arising from acts or omissions of the permittee, or employees, agents, or representative of the permittee, undertaken in connection with this permit. The permittee's obligation to indemnify the State of Michigan applies only if the state: (1) provides the permittee or its designated representative written notice of the claim or cause of action within 30 days after it is received by the state, and (2) consents to the permittee's participation in the proceeding on the claim or cause of action. It does not apply to contested case proceedings under the Administrative Procedures Act, 1969 PA 306, as amended, challenging the permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
- O. Noncompliance with these terms and conditions and/or the initiation of other regulated activities not specifically authorized shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, EGLE may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.
- P. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity from EGLE. Such revision request shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by EGLE prior to being implemented.
- Q. This permit may be transferred to another person upon written approval of EGLE. The permittee must submit a written request to EGLE to transfer the permit to the new owner. The new owner must also submit a written request to EGLE to accept transfer. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties that includes all the above information may be provided to EGLE. EGLE will review the request and, if approved, will provide written notification to the new owner.
- R. Prior to initiating permitted construction, the permittee is required to provide a copy of the permit to the contractor(s) for review. The property owner, contractor(s), and any agent involved in exercising the permit are held responsible to ensure that the project is constructed in accordance with all drawings and specifications. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by the permit.

- S. Construction must be undertaken and completed during the dry period of the wetland. If the area does not dry out, construction shall be done on equipment mats to prevent compaction of the soil.
- T. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent (CEA).
- U. Authority granted by this permit does not waive permit requirements under the authority of Part 305, Natural Rivers, of the NREPA. A Natural Rivers Zoning Permit may be required for construction, land alteration, streambank stabilization, or vegetation removal along or near a natural river.
- V. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.
- W. Unless specifically stated in this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the water body are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
- X. For projects with potential impacts to fish spawning or migration, no work shall occur within fish spawning or migration timelines (i.e., windows) unless otherwise approved in writing by the Michigan Department of Natural Resources (MDNR), Fisheries Division.
- Y. Work to be done under authority of this permit is further subject to the following special instructions and specifications:
1. Authority granted by this permit does not waive permit or program requirements under Part 91 of the NREPA or the need to acquire applicable permits from the CEA. To locate the Soil Erosion Program Administrator for your county, visit www.mi.gov/degstormwater and select "Soil Erosion and Sedimentation Control Program" under "Related Links."
 2. The authority to conduct the activity as authorized by this permit is granted solely under the provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive the permittee's obligation to acquire any local, county, state, or federal approval or authorization necessary to conduct the activity.
 3. No fill, excess soil, or other material shall be placed in any wetland, floodplain, or surface water area not specifically authorized by this permit, its plans, and specifications.
 4. This permit does not authorize or sanction work that has been completed in violation of applicable federal, state, or local statutes.
 5. The permit placard shall be kept posted at the work site in a prominent location at all times for the duration of the project or until permit expiration.
 6. This permit is being issued for the maximum time allowed and no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by EGLE, will be for a five-year period beginning on the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.
 7. Stormwater shall not directly outlet to the water.
 8. All riprap shall be properly sized and graded and shall consist of clean natural field stone or rock (free of paint, soil or other fines, asphalt, soluble chemicals, or organic material). Broken concrete may NOT be used.
 9. During removal or repair of the existing structure, every precaution shall be taken to prevent debris from entering any watercourse. Any debris reaching the watercourse during the removal and/or

reconstruction of the structure shall be immediately retrieved from the water. **All material, including slurry water from hydrogedemolition, shall be disposed of in an acceptable manner consistent with local, state, and federal regulations.**

- 10. Work must be performed in the dry. Group 2 T&E mussels may be present at this location in the Shiawassee River. If work must be performed in the water, EGLE must be contacted to determine the need for a mussel survey.**

Issued By:



James Watling, PE
Transportation Review Unit
Water Resources Division
517-599-9002

cc: City of Owosso Clerk
Shiawassee County Drain Commissioner
Shiawassee County CEA
Chris Clampitt, EGLE, WRD
Cheri Meyer, EGLE, WRD
Brian Gunderman, MDNR-Fisheries

City of Owosso Retaining Wall Improvements

Shiawassee County, Michigan

VICINITY MAP



UTILITY INFORMATION

THE EXISTING UTILITIES SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN LOCATED FROM UTILITY RECORD DRAWINGS. ACTUAL UTILITY LOCATIONS MAY VARY FROM WHAT IS SHOWN. ALL UTILITIES TO BE FIELD VERIFIED BY UTILITY OWNER PRIOR TO CONSTRUCTION.

CABLE TV:
CHARTER COMMUNICATIONS
ATTN: MARK KELLY
1480 S. VALLEY CENTER DRIVE
BAY CITY, MI 48706
PHONE: (989) 233-8404
EMAIL: MARK.KELLY@CHARTERCOM.COM

TELEPHONE:
FRONTIER COMMUNICATIONS CORP.
ATTN: MARK STEVENS
1943 W. M-21
OWOSSO, MI 48867
PHONE: (989) 723-0373
EMAIL: MARK.STEVENS@FTR.COM

INTERNET:
DAYSTARR COMMUNICATIONS
ATTN: BRENT KLEIN
307 N. BALL STREET
OWOSSO, MI 48867
PHONE: (989) 729-4060
EMAIL: BRENT.KLEIN@DAYSTARRFIBER.NET

SANITARY SEWER AND WATER:
CITY OF OWOSSO
ATTN: GLENN CHINAVARE
301 W. MAIN ST. - CITY HALL
OWOSSO, MI 48867
PHONE: (989) 725-0520
EMAIL: GLENN.CHINAVARE@CICOWOSSO.MI.US

ROAD AND STORM SEWER:
CITY OF OWOSSO
ATTN: RANDY CHESNEY
301 W. MAIN ST. - CITY HALL
OWOSSO, MI 48867
PHONE: (989) 725-0520
EMAIL: RANDY.CHESENEY@CICOWOSSO.MI.US

ELECTRIC:
CONSUMERS ENERGY
ATTN: TRACY MAHAR
1801 W. MAIN STREET
OWOSSO, MI 48867
PHONE: (989) 729-3250
EMAIL: TMAHAR@CMSENERGY.COM

GAS:
CONSUMERS ENERGY
ATTN: ADAM BERTRAM
530 W. WILLOW ST.
LANSING, MI 48906
PHONE: (517) 374-2375
EMAIL: ADAM.BERTRAM@CMSENERGY.COM

SOIL EROSION AND SEDIMENTATION CONTROL:
SHIAWASSEE COUNTY HEALTH DEPARTMENT
ATTN: STEVE ALWORDEN
201 N. SHIAWASSEE STREET
CORUNNA, MI 48817
PHONE: (989) 743-2289
EMAIL: SALWORDEN@SHIAWASSECHD.NET

SEAL

CITY OF OWOSSO, MICHIGAN
ENGINEERING DIVISION
DEPT. OF PUBLIC SERVICE

NO.	REVISIONS	DATE	BY	APPROVED BY

BENCHMARK DATA	DESCRIPTION	ELEV.

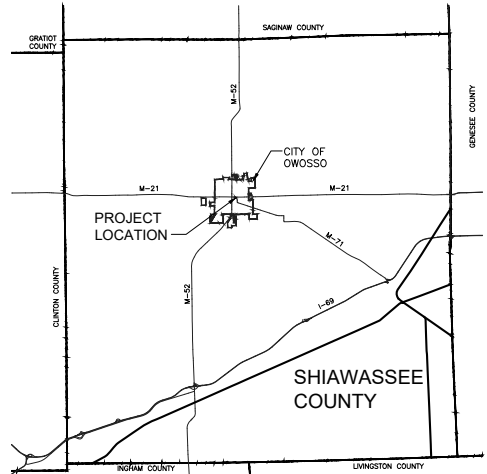
RETAINING WALL IMPROVEMENTS

OWOSSO CITY HALL
COVER SHEET

DATE
PROJECT NO.

CS

LOCATION MAP



NOTES

THIS IS A PROJECT BEING CONSTRUCTED BY OWOSSO DPW CREWS

SHEET LIST

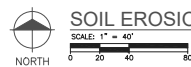
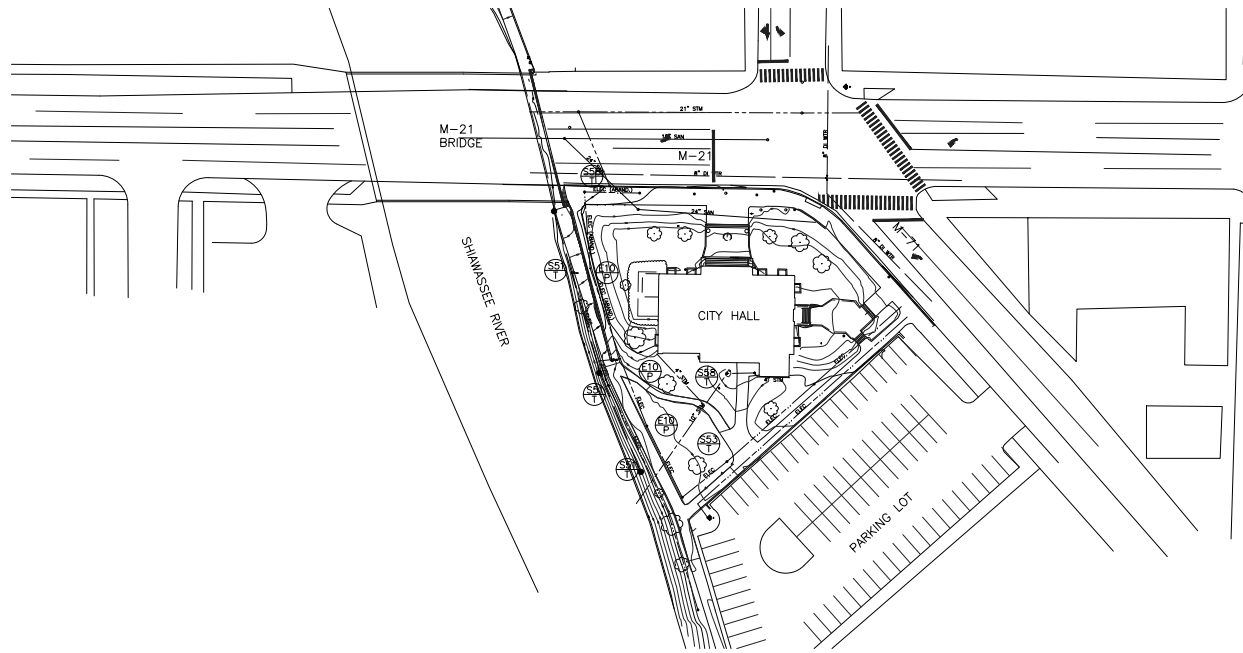
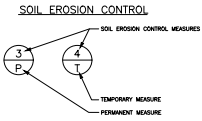
- C-1 EXISTING CONDITIONS
- C-2 SOIL EROSION & SEDIMENTATION CONTROL PLAN & DETAILS
- C-3 REMOVAL PLAN
- C-4 UTILITY/GRADING/LAYOUT PLAN
- D-1 DETAIL SHEET
- D-2 DETAIL SHEET

MDMB SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

KEY	DESCRIPTION	DETAIL	CHARACTERISTICS
E10	SODDING		On grass and slopes where immediate stabilization is required.
ES35	DEWATERING		Use where construction activities are limited by the presence of water and dry work is required.
ES36	COFFERDAM/SHEET PILING		Constructed along or within water corridor or waterbody to provide dry construction area.
S51	SILT FENCE		Use adjacent to critical areas to prevent sediment laden sheet flow from entering these critical areas.
S53	STABILIZED CONSTRUCTION ACCESS		Use at every point where construction traffic enters or leaves a construction site.
S58	INLET PROTECTION FABRIC DROP		Use at stormwater inlets, especially at construction sites.

NOTES

- CONSTRUCT AND MAINTAIN SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT ISSUED FOR THE PROJECT.
- PROVIDE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO STARTING DEMOLITION, EARTHWORK AND EXCAVATION. MEASURES INDICATED ON THESE DRAWINGS ARE MINIMUM REQUIREMENTS. SUPPLEMENT THESE REQUIREMENTS AS REQUIRED BY CONSTRUCTION PHASING AND SITE CONDITIONS TO COMPLY WITH PERMIT.
- CONTAIN SEDIMENT ON THE SITE. DO NOT ALLOW SEDIMENT TO COLLECT IN OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- DIRECT WATER FROM DEWATERING ACTIVITIES THROUGH A FILTER PRIOR TO DISCHARGING TO THE PROPOSED STORM SEWER SYSTEM.
- PROVIDE AND MAINTAIN INLET FILTERS AT ALL NEW AND EXISTING CATCH BASINS AND INLET STRUCTURES WHERE IMPACTED BY CONSTRUCTION DRAINAGE UNTIL PERMANENT EROSION CONTROL MEASURES ARE IN PLACE.
- ENSURE SOIL AND DEBRIS FROM THE SITE REMAINS ON SITE THROUGH THE USE OF CLEAN STONE CONSTRUCTION EXITS. DIRECT ALL CONSTRUCTION TRAFFIC TO THESE EXITS. MAINTAIN STONE EXITS AND ADD ADDITIONAL STONE WHEN ACCESS ROAD BECOMES INEFFECTIVE DUE TO LOSE OF STONE OR WHEN COVERED WITH MUD.
- INSPECT THE SOIL EROSION AND SEDIMENT CONTROL MEASURES ONCE EACH WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF A PRECIPITATION EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. A LOG OF INSPECTION REPORTS SHALL BE MAINTAINED AND ACCESSIBLE IN ACCORDANCE WITH PERMIT REQUIREMENTS.
- PROVIDE AND MAINTAIN SILT FENCE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MAINTENANCE INCLUDES THE REMOVAL OF BUILT-UP SEDIMENT WHEN THE SEDIMENT ACCUMULATES TO 1/3 OF THE HEIGHT OF THE SILT FENCE. REMOVE, REPAIR, RETRACT, OR RE-SHOVEL THE SILT FENCE IF IT FAILS. REINSTALL FENCE DAMAGED BY CONSTRUCTION.
- PROVIDE AND MAINTAIN INLET FILTERS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MAINTENANCE CONSISTS OF REMOVING ALL MUD WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF THE INLET FILTER IS DAMAGED, REPLACE BOTH THE STONE AND GEOTEXTILE FILTER FABRIC.
- RESTORE DESIGNATED TURF AREAS WITH SOD IN ACCORDANCE WITH SPECIFICATIONS.
- MAINTAIN DUST CONTROL DURING CONSTRUCTION. WATER TANK TRUCKS SHALL BE USED ON ON-SITE DISTURBED AREAS.
- PROMPTLY REMOVE ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS FROM THE SITE.



SOIL EROSION AND SEDIMENTATION CONTROL PLAN & DETAILS

CITY OF OWOSSO, MICHIGAN
 ENGINEERING DIVISION
 DEPT. OF PUBLIC SERVICE

NO.	REVISIONS	DATE	BY

BENCHMARK DATA	DESCRIPTION
ELEV.	

RETAINING WALL IMPROVEMENTS

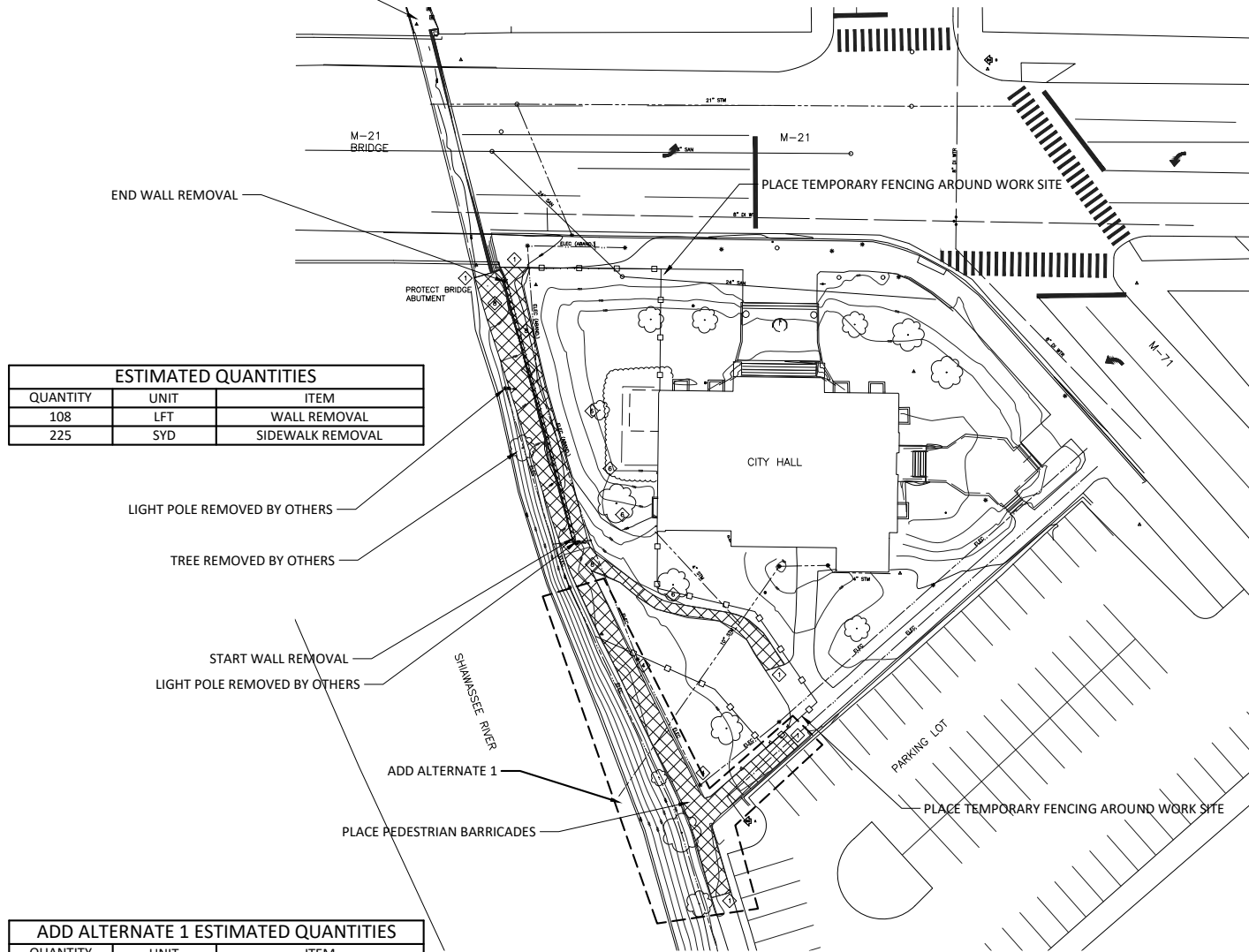
OWOSSO CITY HALL
 SOIL EROSION & SEDIMENTATION CONTROL PLAN

DATE: _____
 PROJECT NO. _____

FIELD BOOK
 PG. _____

C-2

PLACE PEDESTRIAN BARRICADES NORTH OF BRIDGE



ESTIMATED QUANTITIES		
QUANTITY	UNIT	ITEM
108	LFT	WALL REMOVAL
225	SYD	SIDEWALK REMOVAL

LIGHT POLE REMOVED BY OTHERS

TREE REMOVED BY OTHERS

START WALL REMOVAL

LIGHT POLE REMOVED BY OTHERS

ADD ALTERNATE 1

PLACE PEDESTRIAN BARRICADES

ADD ALTERNATE 1 ESTIMATED QUANTITIES		
QUANTITY	UNIT	ITEM
160	SYD	SIDEWALK REMOVAL

LEGEND

- SAWCUT
- CURB REMOVAL
- REMOVE PIPE
- REMOVE OBJECT (WALL)
- ⊗ REMOVE BITUMINOUS PAVEMENT FULL DEPTH
- ⊗ REMOVE CONCRETE PAVEMENT
- x CHANNELIZING DEVICE - DRUM

NOTES

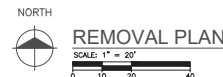
- THE EXTENT OF REMOVALS AND DEMOLITION SHALL BE FIELD VERIFIED BY ENGINEER PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DEVIATIONS FROM INFORMATION SHOWN.
- PRIOR TO CONSTRUCTION ALL FENCING, BARRICADES, ENCLOSURES, ETC. MUST BE INSTALLED AND APPROVED BY OWNER OR ENGINEER.
- DISPOSE OF DEMOLITION AND EXCAVATION MATERIALS IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IN PLACE PRIOR TO STARTING REMOVALS AND DEMOLITION.
- UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE PLANS, ALL SIDEWALKS, DRIVES, CULVERTS, DRAINAGE STRUCTURES, AND ABOVE AS WELL AS BELOW GRADE UTILITIES SHALL BE PROTECTED. ALL SUCH ITEMS DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER.
- PROTECT EXISTING TREES TO REMAIN. NO GROUND DISTURBANCE OR STORAGE OF MATERIAL/EQUIPMENT SHALL OCCUR WITHIN THE DRIP LINE LIMITS.
- ELECTRICAL, TELEPHONE, CABLE TV, WATER, FIBER OPTIC, CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE NOTICE SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DEMOLITION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
- PERFORM CLEANING, GRUBBING, TREE AND STUMP REMOVAL, TOPSOIL REMOVAL AND STOCKPILING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- BEFORE REMOVING OR ABANDONING ANY UTILITY PIPES, VERIFY NEW UTILITY PIPE HAS BEEN INSTALLED, TESTED AND IS OPERATIONAL.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY CRITICAL INVERT INFORMATION PRIOR TO BEGINNING CONSTRUCTION.
- DAMAGE CAUSED TO SURROUNDING AREA PAVEMENT OUTSIDE THE CONSTRUCTION LIMITS SHALL BE SAWCUT AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE SEQUENCING AND PHASING OF DEMOLITION WITH ENGINEER.
- SEE OTHER DRAWINGS FOR ADDITIONAL SITE DEMOLITION WORK.
- SAWCUT CURB AND GUTTER AND SIDEWALKS TO NEAREST JOINT.

MAINTAINING TRAFFIC NOTES

- SIGNS SHALL BE PLACED IN ACCORDANCE WITH MOST MAINTAINING TRAFFIC TYPICALS INCLUDED IN THE SPECIFICATIONS.
- ADJUST SIGN SPACING AS NECESSARY TO MEET MDOT REQUIREMENTS.
- LANE CLOSURES ON M-21 ARE NOT ALLOWED. CONTRACTOR SHALL ACCESS THE SITE WITH EQUIPMENT AND MATERIALS FROM OTHER LOCATIONS OR OUT OF THE TRAVEL LANES OF M-21.

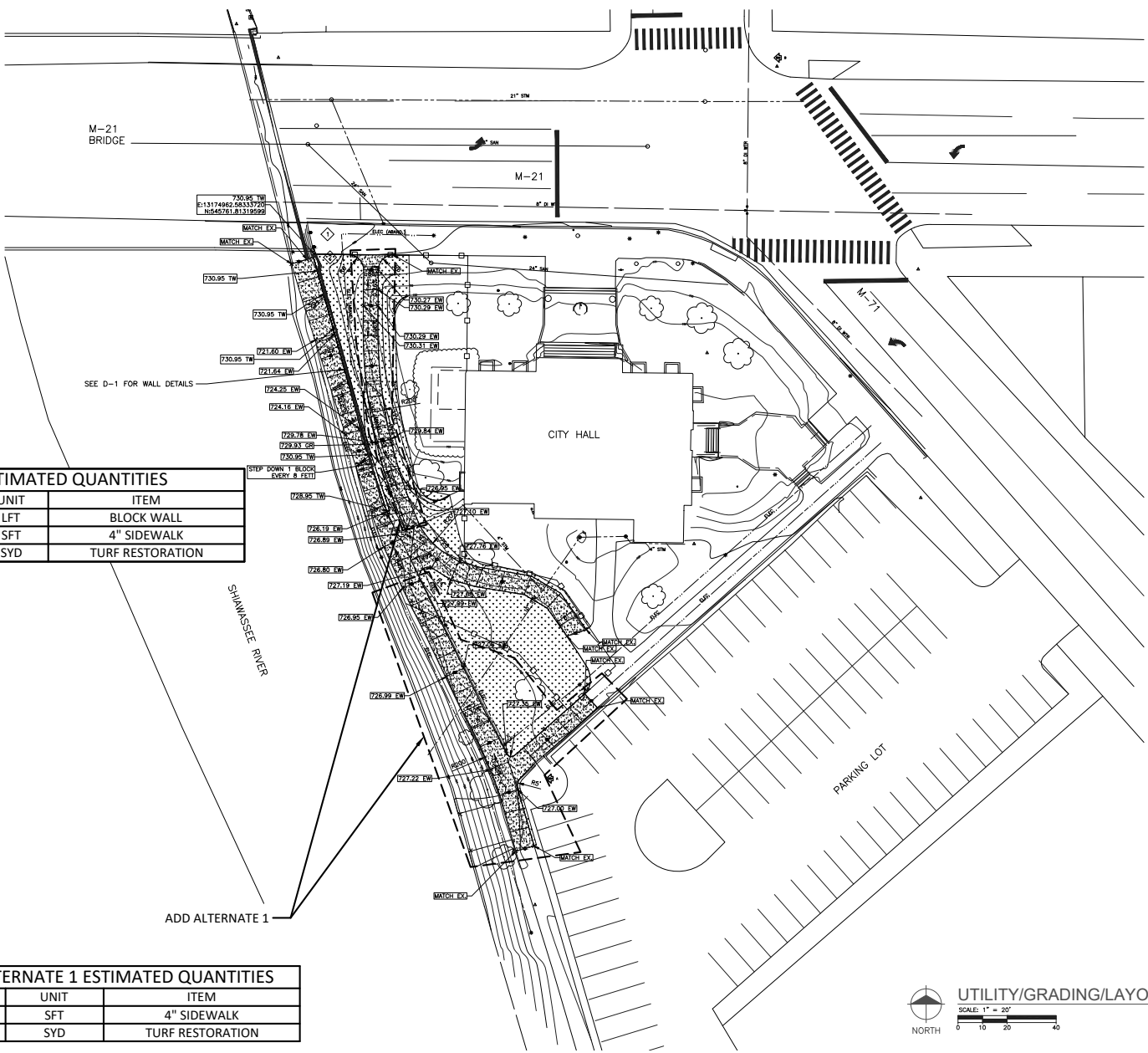
KEY NOTES

- SAWCUT AND REMOVE 4" CONCRETE SIDEWALK TO NEAREST JOINT.
- REMOVE CONCRETE CURB.
- REMOVE RETAINING WALL AND ALL APPURTENANCES.
- PROTECT LIGHT POLE AND FIXTURE.
- REMOVE CONCRETE PAD AND STEPS.
- PROTECT TREE, THE BACK OR TRIM BRANCHES AS REQUIRED FOR CONSTRUCTION. COORDINATE TRIMMING WITH OWNER.
- PROTECT SIGN.
- REMOVE 4" CONCRETE SIDEWALK.



BENCHMARK DATA	NO.	DESCRIPTION	REVISIONS		DATE	BY
			NO.	DESCRIPTION		

RETAINING WALL IMPROVEMENTS	OWOSSO CITY HALL REMOVAL PLAN	FIELD BOOK PG.
	C-3	DATE PROJECT NO.



LEGEND

- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- SOD AREAS
- 4" THICK CONCRETE SIDEWALK
- EXPANSION JOINT
- SITE LIGHT POLE
- PROPOSED SPOT ELEVATION

- NOTES**
1. DIMENSIONS ARE TO FACE OF CURB, OUTSIDE FACE OF BUILDING, AND EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
 2. EXISTING UTILITIES LOCATIONS SHOWN ARE APPROXIMATE.
 3. VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATION WHERE NECESSARY.
 4. PROTECT AND MAINTAIN SERVICE OF OTHER UTILITIES AT CROSSINGS.
 5. DO NOT CONNECT ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER SERVICES TO THE SANITARY SEWER.
 6. PROVIDE AND MAINTAIN INLET FILTERS AT ALL CATCH BASIN INLETS, DURING CONSTRUCTION.
 7. ADJUST ALL CHAININGS TO FINISH GRADES.
 15. LANE CLOSURES ON M-21 ARE NOT ALLOWED
 16. ALL SPOT ELEVATIONS ARE TO:
EDGE OF WALK - (EW)
TOP OF WALL - (TW)
FINISHED GRADE - (FG)
UNLESS NOTED OTHERWISE

BENCH MARK INFORMATION

BENCH MARK A ELEVATION: 727.21
PAINTED "X" ON NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD LOCATED APPROXIMATELY 105 FEET SOUTH OF CITY HALL ADJACENT TO PARKING LOT

BENCH MARK B ELEVATION: 731.75
PAINTED "X" ON SOUTHERLY ANCHOR BOLT OF TRAFFIC LIGHT STRAIN POLE LOCATED ON THE NORTHEAST CORNER OF E. MAIN ST. AND N. WATER ST.

- KEY NOTES**
1. SITE LIGHTING FIXTURE AND BASE TO BE RE-INSTALLED BY CONTRACTOR. CONTRACTOR SHALL EXTEND, MODIFY, RE-ROUTE OR REPLACE CONDUITS AS REQUIRED TO FIT NEW SITE LIGHTING LOCATION AND ARRANGEMENT. SPLICING OF CONDUITS IS ONLY ALLOWED IN HANDHOLES.
 2. APPROXIMATE LOCATION OF TEMPORARY EARTH RETENTION. REFER TO SPECIFICATIONS.

ESTIMATED QUANTITIES

QUANTITY	UNIT	ITEM
108	LFT	BLOCK WALL
1560	SFT	4" SIDEWALK
175	SYD	TURF RESTORATION

ADD ALTERNATE 1 ESTIMATED QUANTITIES

QUANTITY	UNIT	ITEM
2215	SFT	4" SIDEWALK
350	SYD	TURF RESTORATION

NO.	REVISIONS	DATE BY	
		DATE	BY

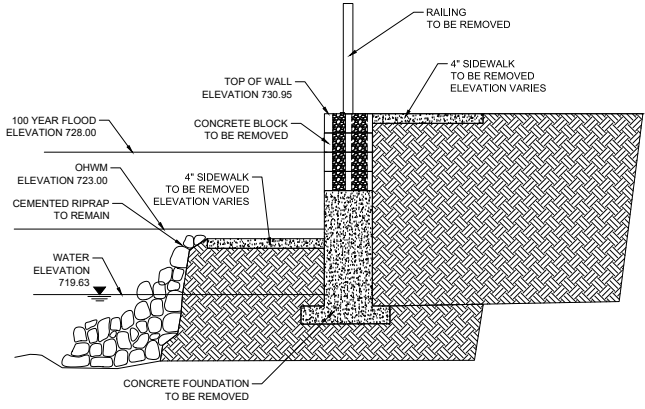
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					DATE	BY

RETAINING WALL IMPROVEMENTS

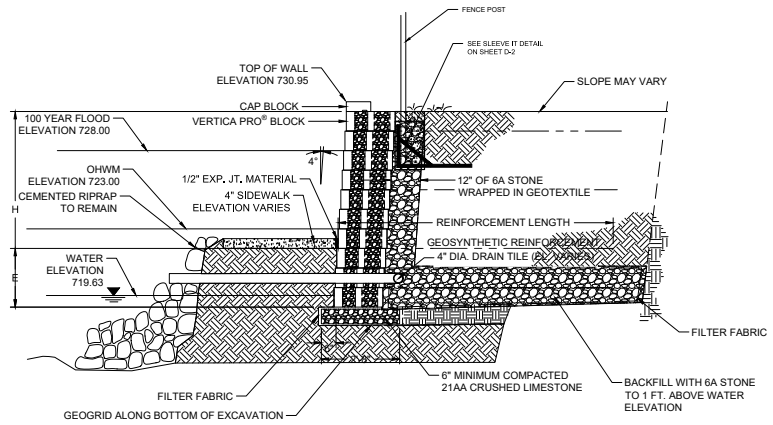
OWOSSO CITY HALL
UTILITY/GRADING/LAYOUT PLAN

DATE: _____
PROJECT NO. _____
FIELD BOOK PG. _____

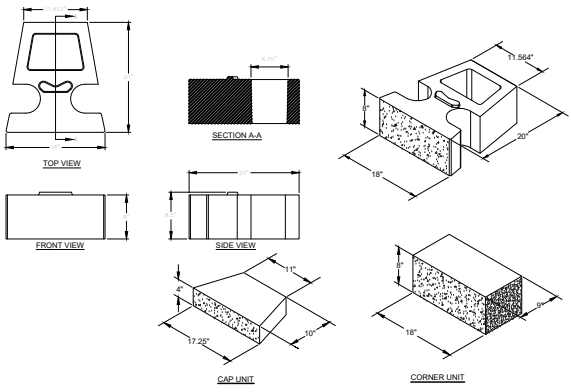
C-4



TYPICAL EXISTING CROSS SECTION
NO SCALE



TYPICAL PROPOSED CROSS SECTION
NO SCALE

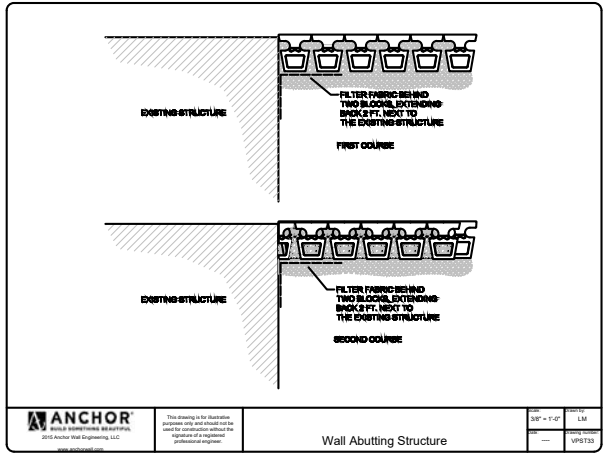


TYPICAL BLOCK UNIT - VERTICA PRO STRAIGHT FACE
NO SCALE



EXISTING RETAINING WALL AT ABUTMENT
NO SCALE

- STACKED STONE TO REMAIN
- DO NOT MAR OR DAMAGE BRIDGE ABUTMENT
- DEMOLISH EXISTING CONCRETE AND BLOCK RETAINING WALL
- REMOVE LIMESTONE BLOCK AT BASE OF WALL AS REQUIRED.



PROPOSED WALL AT ABUTMENT
NO SCALE

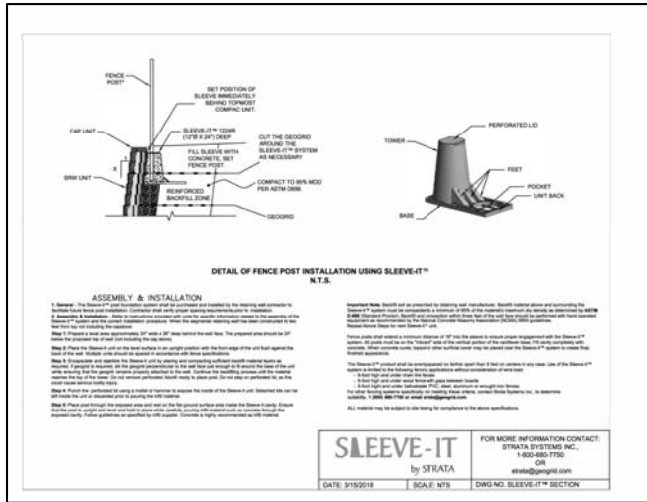
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ELEV.	DESCRIPTION				

RETAINING WALL IMPROVEMENTS

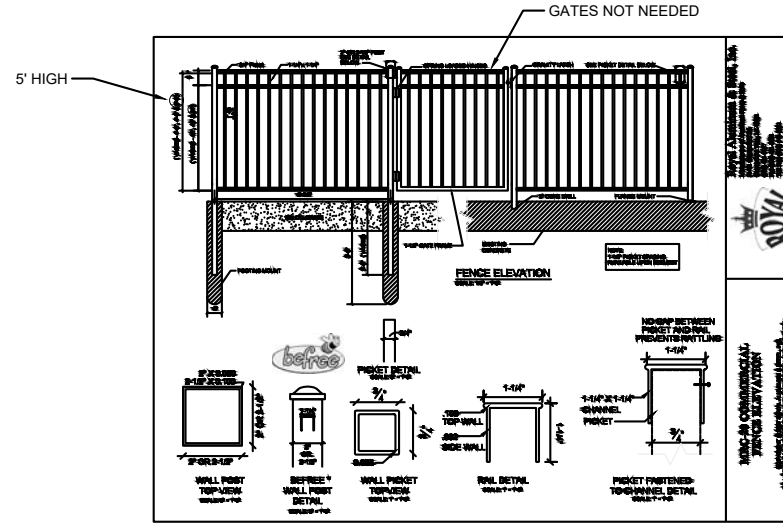
OWOSSO CITY HALL
UTILITY/GRADING/LAYOUT PLAN

DATE: _____ PROJECT NO. _____
FIELD BOOK PG. _____

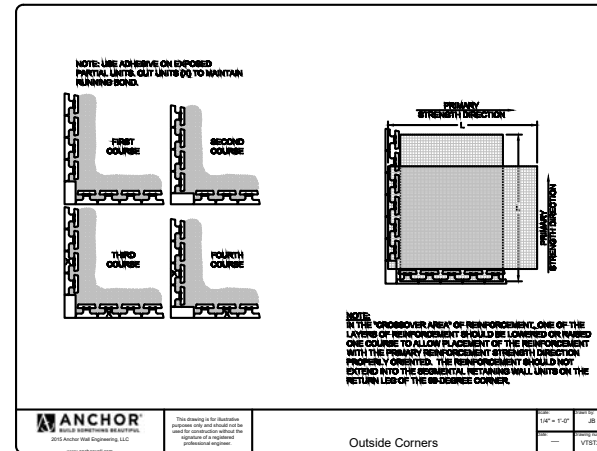
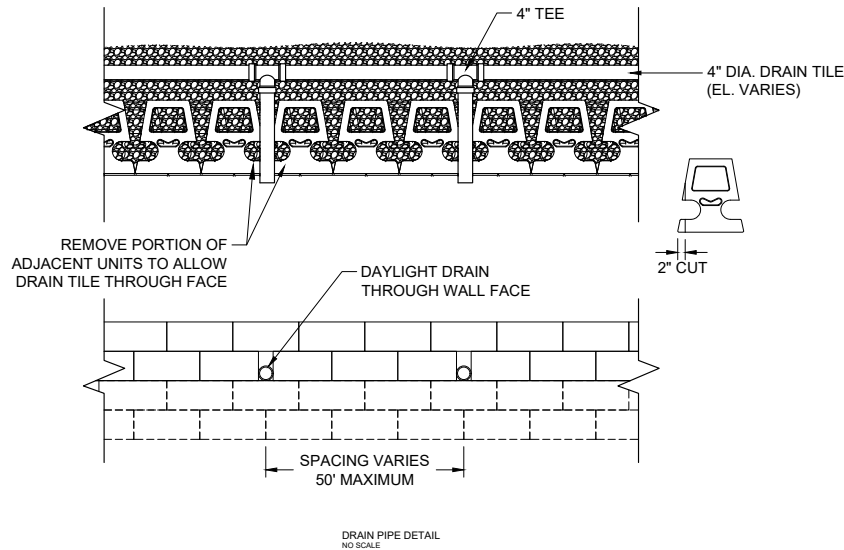
D-1



RAILING POST INSTALLATION
NO SCALE



RAILING ON RETAINING WALL
NO SCALE



END TREATMENT DETAIL
NO SCALE

CITY OF OWOSSO, MICHIGAN
ENGINEERING DIVISION
DEPT. OF PUBLIC SERVICE

NO.	REVISIONS	DATE	BY

ORIGINAL PLAN
CHECKED BY: _____
APPROVED BY: _____

BENCHMARK DATA	DESCRIPTION
ELEV.	

RETAINING WALL IMPROVEMENTS

OWOSSO CITY HALL
UTILITY/GRADING/LAYOUT PLAN

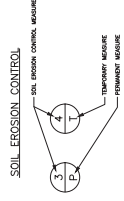
DATE: _____
PROJECT NO. _____
FIELD BOOK PG. _____

D-2

BENCHMARK DATA		APPROVED BY	
ELEV.	DESCRIPTION	DATE	BY
REVISIONS		APPROVED BY	
NO.	DESCRIPTION	DATE	BY

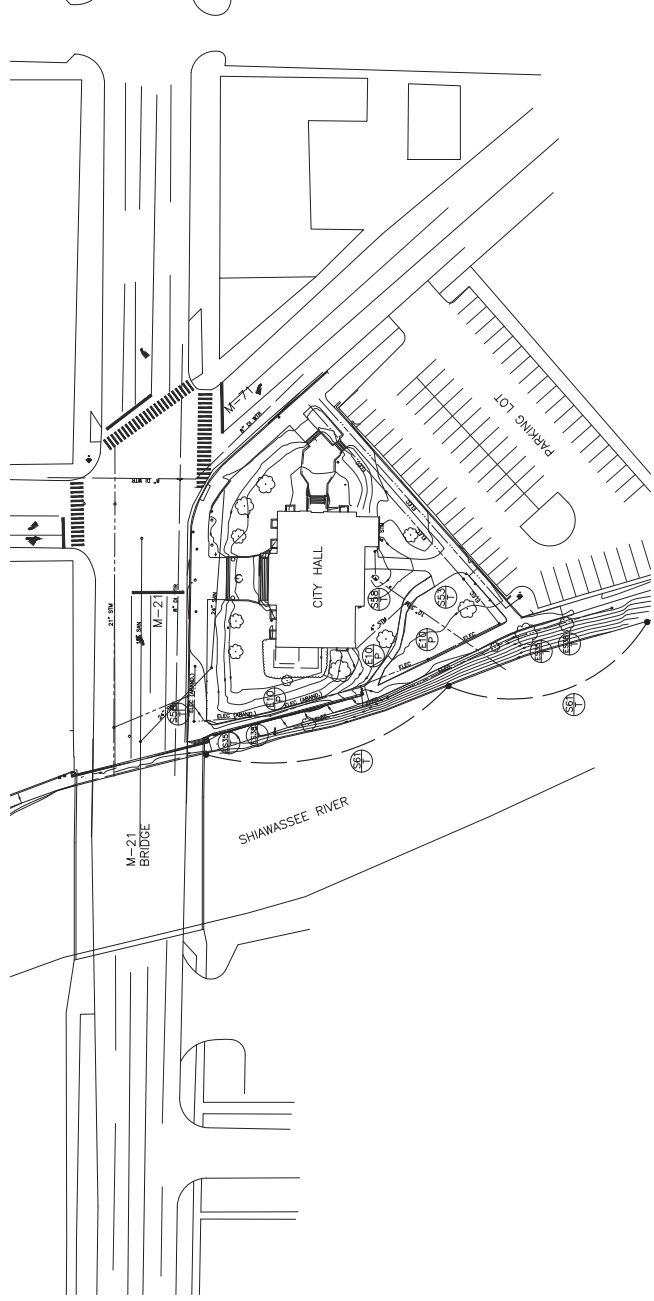
NOTES

1. CONSTRUCT AND MAINTAIN SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EROSION CONTROL PERMIT ISSUED FOR THIS PROJECT. EROSION AND SEDIMENTATION CONTROL PERMIT ISSUED FOR THIS PROJECT.
2. PROVIDE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT EXCESSIVE SOIL EROSION AND SEDIMENTATION FROM OCCURRING ON THE PROJECT SITE. PROVIDE AND MAINTAIN THESE MEASURES THROUGHOUT CONSTRUCTION AND UNTIL THE SITE IS RESTORED TO ORIGINAL OR BETTER CONDITIONS TO COMPLY WITH PERMIT.
3. TO COLLECT RUNOFF FROM THE PROJECT SITE, THE MAINTENANCE SYSTEMS SHALL BE DESIGNED TO COLLECT AND REMOVE SEDIMENT FROM STORM DRAINAGES AND PAVEMENTS.
4. DIRECT WATER FROM DEMONSTRATING ACTIVITIES THROUGH A FILTER SYSTEM TO DISCHARGE TO THE PROPOSED STORM SEWER SYSTEM.
5. PROVIDE AND MAINTAIN SILT FILTERS AT ALL NEW AND EXISTING CONSTRUCTION SITES UNTIL PERMANENT EROSION CONTROL MEASURES ARE IN PLACE.
6. THROUGH THE USE OF CLEAN SCENE CONSTRUCTION EQUIPMENT AND PRACTICES, MAINTAIN STONE EXITS AND ADDITIONAL STONE WHEN MAINTAINING STONE EXITS AND ADDITIONAL STONE WHEN ON WHEN COVERED WITH MUD.
7. INSPECT THE SOIL EROSION AND SEDIMENT CONTROL MEASURES ON A REGULAR BASIS TO ENSURE THEY REMAIN EFFECTIVE. INSPECTION REPORTS SHALL BE MAINTAINED AND ACCESSIBLE TO THE PROJECT ENGINEER.
8. PROVIDE AND MAINTAIN SILT FENCES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MAINTENANCE INCLUDES ACCUMULATED TO 1/2 OF THE HEIGHT OF THE SILT FENCE. FENCES IF IT FAILS. REINSTALL FENCE DAMAGED BY TRUCKS OR OTHER EQUIPMENT.
9. PROVIDE AND MAINTAIN SILT FILTERS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MAINTENANCE INCLUDES ACCUMULATED TO 1/2 OF THE HEIGHT OF THE SILT FILTER IS BROKEN OR SQUARE POINT SOFTENED. IF THE SILT FILTER IS DAMAGED, REINSTALL FENCE DAMAGED BY TRUCKS OR OTHER EQUIPMENT.
10. RESTORE DEMONSTRATED TURF AREAS WITH SOD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WATER TANK TRUCKS SHALL BE USED ON ON-SITE DISTURBED AREAS.
11. MAINTAIN SILT CONTROL DURING CONSTRUCTION. WATER TANK TRUCKS SHALL BE USED ON ON-SITE DISTURBED AREAS.
12. PROMPTLY REMOVE ALL MUD, DEBRIS AND DEBRIS TRACKED ONTO EXISTING PAVED FROM THE SITE.

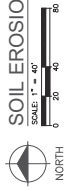


MDMB SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

KEY	DESCRIPTION	DETAIL	CHARACTERISTICS
E10	SKODDING		On slopes not subject where immediate stabilization is required.
S330	DEMATERING		Use where specific vegetation is to be removed by the presence of water and dry down is required.
S330	COFFERDAM/SHEET PILING		Installed daily or when your contractor is unable to provide dry construction work.
S53	STABILIZED ACCESS		Used at every point where construction equipment, vehicles or materials are transported.
S58	CONSTRUCTION PUBLIC DRIP		Use at drainage inlets, specifically at construction sites.
S61	TURBIDITY CURTAIN		Use where construction equipment is to be used near, or within, a water source, to prevent sediment from entering the water source from the work area (near the M-21 bridge).



SOIL EROSION AND SEDIMENTATION CONTROL PLAN & DETAILS





INDIVIDUAL CONSTRUCTION PERMIT
For Operations within State Highway Right-of-Way

Issued To:
City of Owosso

301 W MAIN ST
OWOSSO MI 48867-2915

Contact:
Clayton Wehner
989-725-0551(O) 989-666-8203(Cell)
clayton.wehner@ci.owosso.mi.us

Permit Number: 76062-065933-19-092719
Permit Type: Individual Application
Permit Fee:
Effective Date: Sep 27, 2019 to Sep 27, 2020
Bond Numbers:
Liability Insurance Expiration Date:

THIS PERMIT IS VALID ONLY FOR THE FOLLOWING PROPOSED OPERATIONS:

PURPOSE:

The City of Owosso is planning on replacing the retaining wall and sidewalk on the west side of City Hall. The existing concrete wall and sidewalk are in poor condition and need to be replaced. The existing concrete wall comes up to the M-21 bridge abutment. The plan is to remove the existing concrete wall and replace it with a segmental block wall. See sheet D-1 for details working around the bridge abutment. We do not plan on tying the wall directly into the abutment. New sidewalk will then be constructed in accordance with ADA Standards.

STATE ROUTE: M-21 **CITY OF:** Owosso **COUNTY:** Shiawassee County

NEAREST INTERSECTION:	SIDE OF ROAD:	DISTANCE TO NEAREST INTERSECTION:	(in feet)	DIRECTION TO NEAREST INTERSECTION:
M-21 and M-71	S	185.00		East

CONTROL SECTION:	MILE POINT FROM:	MILE POINT TO:	LOCATION:			
			LEFT	MEDIAN	RIGHT	TRANSVERSE
76062	0.160	0.160	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

REQUISITION NUMBER: **WORK ORDER NUMBER:** **MDOT JOB NUMBER:** **ORG JOB NUMBER:**

76062-065933-19-092719 Issued To:City of Owosso

This permit is incomplete without "General Conditions and Supplemental Specifications"

I certify that I accept the following:

1. I am the legal owner of this property or facility, the owner's authorized representative, or have statutory authority to work within state highway Right-of-Way.
2. Commencement of work set forth in the permit application constitutes acceptance of the permit as issued.
3. Failure to object, ***within ten (10) days*** to the permit as issued constitutes acceptance of the permit as issued.
4. If this permit is accepted by either of the above methods, I will comply with the provisions of the permit.
5. I agree that Advance Notice for Permitted Activities for shall be submitted **5 days prior** to the commencement of the proposed work.

I agree that Advance Notice for Permitted Utility Tree Trimming and Tree Removal Activities shall be submitted **15 days prior** to the commencement of the proposed work for an annual permit.

CAUTION

**Work shall NOT begin until the Advance Notice has been approved.
Failure to submit the advance notice may result in a Stop Work Order.**

City of Owosso

Craig Innis
MDOT

September 27, 201
Approved Date

TSC Contact Info

Davison TSC

(810) 653-7470

THE STANDARD ATTACHMENTS, ATTACHMENTS AND SPECIAL CONDITIONS MARKED BELOW ARE A PART OF THIS PERMIT.

STANDARD ATTACHMENTS:

- 1 General Conditions for Permit (General Conditions)

ADDITIONAL ATTACHMENTS:

- 1 City Hall Retaining Wall Plans Revised 5-20-19 8.5x11.pdf
- 2 SIGNED PERMIT WRP017546 for City of Owosso Retaining Wall.pdf
- 3 City of Owosso.pdf
- 4 m0110a.pdf

AMENDMENT ATTACHMENTS:

76062-065933-19-092719 Issued To:City of Owosso

SPECIAL CONDITIONS:

- 1 All disturbed areas within the right of way shall be top-soiled, seeded and mulched to match existing areas per current MDOT standards and specifications.
- 2 No lane closure will be allowed.

GENERAL CONDITIONS (See new condition 23)

This permit is issued subject to the following conditions:

1. This permit grants to the permittee only those rights specifically stated and no other. Maintenance work within the trunkline right of way may require a separate permit unless authorized within the scope of the annual permit.
2. Issuance of this permit does not relieve permittee from meeting any and all requirements of law, or of other public bodies or agencies. The permittee shall be responsible for securing including but not limited to any other permissions including or required by law including but not limited to cities, villages, townships, corporations, or individuals for the activities hereby permitted.
3. The permittee agrees as a condition of this permit to:
 - a. Have in the permittee's or the permittee's representative's possession on the job site at all times the approved permit, advanced notice and any necessary plans or sketches.
 - b. Submit Advance Notice through the online Construction Permit System (CPS) at least five (5) working days prior to commencement of any operations covered by this permit. No work shall start until an approved Advance Notice is e-mailed to the permittee.
 - c. Perform no work except emergency work, unless authorized by the Department, on Saturdays, Sundays, or from 3:00 p.m. on the day proceeding until the normal starting time the day after the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.
 - d. Provide and maintain all necessary precautions to prevent injury or damage to persons and property from operations covered by this permit.
 - e. Furnish, install and maintain all necessary traffic controls and protection during permittee's operations in accordance with the Michigan Manual of Uniform Traffic Control Devices and any supplemental specifications set forth herein.
 - f. Notify the Department of completion of work authorized by this permit through CPS, so that final inspection may be made and surety deposit released (where applicable). Surety deposit will not be released until the work authorized by the permit has been completed and inspected, and all inspection charges billable to the permittee are paid.
4. Nothing in this permit shall be construed to grant any rights what so ever to any public utilities, except as to the consent herein specifically given, nor to impair any existing rights granted in accordance with the constitution or laws of this state.
5. Any operations in the trunkline right of way not covered by permit and the appropriate Department specifications are in violation of the jurisdictional authority of the Department, with respect to the control of the trunkline right of way, unless approved by the Department. Any change or alteration in the permit activities requires prior approval of the Department and may require a new permit.
6. Performance of the requirements of this permit is the responsibility of the permittee. The permittee shall complete all operations for which this permit is issued in accordance with the conditions of this permit, by the specified completion date. The permittee shall meet all requirements of the current Department Standard Specifications for Construction, and the Supplemental Specifications set forth on/or incorporated as a part of this permit.
7. The construction, operation and maintenance of the facility covered by this permit shall be performed without cost to the Department unless specified herein. The permittee shall be responsible for the cost of restoration of the state trunkline and right of way determined by the Department to be damaged as a result of the activities of the permittee.
8. Facilities allowed on state trunkline right of way shall be placed and maintained in a manner which will not impair the state trunkline or interfere with the reasonable safe and free flow of traffic. Failure of the permittee to maintain the facilities located within the State trunkline right of way so as not to interfere with the operation, maintenance or use of the state trunkline by the traveling public may result in revocation of the permit.
9. The permittee is solely and fully responsible for all activities undertaken pursuant to the permit. Any and all actions by the Department and those governmental bodies performing permit activities for the Department pursuant to a maintenance contract, including but not limited to any approved reviews and inspections of any nature, permit issuing, and final acceptance or rejection of the work or activity authorized by the permit shall not be construed as a warranty or assumption of liability on the part of the Department or those governmental bodies. It is expressly understood and agreed that any such actions are for the sole and exclusive purposes of the Department and the governmental bodies acting in a governmental capacity. Any such actions by the Department and governmental bodies will not relieve the permittee of its obligations hereunder, nor are such actions by the Department and the governmental bodies to be construed as a warranty as to the propriety of the permittee's performance. The permittee shall indemnify and save harmless the State of Michigan, Michigan Transportation Commission, the Department and all officers, agents and employees thereof, and those governmental bodies performing permit activities for the Department and all officers, agents and employees thereof, pursuant to a maintenance contract, against any and all claims for damages arising from operations covered by this permit except claims resulting from the sole negligence or willful acts or omissions of said indemnities, its agent, or employees. In addition, permittee upon request shall furnish proof of insurance coverage for the term of this permit in an amount pre-specified.
10. The permittee or representative must ensure that all insurance policies and binders include an endorsement by which the insurer agrees to notify the Department in writing at least 30 days before there is a cancellation or material change in coverage. The permittee or representative must stop operations if any insurance is cancelled or reduced, and must not resume operations until new insurance is in force. The State of Michigan, Michigan Transportation Commission, Department of Transportation, and governmental bodies performing permit activities under a maintenance contract, and all officers, agents, and employees of all the above, for claims arising out of, under, or by reason of operations covered by the permits issued to the permittee.
11. This permit is not assignable and not transferable unless specifically agreed to by the Department.
12. The permittee, upon request of the Department, shall immediately remove, cease operations, and surrender this permit, or alter or relocate, at the permittee's own expense, the facility for which this permit is granted. Upon failure to do so, the Department may take any necessary action to protect the trunkline interest and the permittee shall reimburse the Department for its costs in doing same. The permittee expressly waives any right to claim damages or compensation in the event this permit is revoked.

13. The permittee shall, upon request by the Department, furnish a performance surety deposit in the form of a bond, cash, certified check, or (when authorized by the Department) an irrevocable letter of credit in such amount as deemed necessary by the Department to guarantee restoration of the trunkline highway or performance under the conditions of the permit.
14. The permittee hereby acknowledges and agrees that the Department has the right to demand completion by the permittee, or the performance surety, or to complete any uncompleted activity authorized by this permit which adversely affects the operation and/or maintenance of the state trunkline highway, or which is not completed by the expiration date of the permit, including:
- Completion of construction of driveway and/or approach (not authorized by annual permit).
 - Removal of materials.
 - Restoration of the trunkline facilities and right of way as necessary for the reasonably safe and efficient operations of the trunkline highway.
- The permittee further agrees to immediately reimburse the Department in full for all such costs incurred by the Department upon receipt of billing, and that upon failure to pay, the Department may affect payment with the performance surety deposit. Should the surety deposit be insufficient to cover expenses incurred by the Department, the permittee shall pay such deficiency upon billing by the Department. If the surety deposit exceeds the expense incurred by the Department, any excess will be returned or released to the depositor upon completion of the work to the satisfaction of the Department.
15. The Department reserves the right during the time any or all of the work is being performed to assign an inspector to protect the trunkline interest, and to charge the permittee all such costs incurred. In addition, the permittee may be billed any engineering and review fees incurred by the Department or its agent in connection with the work covered by this permit.
16. Emergency Operations: In time of disaster or emergency, or when utility lines or facilities are so damaged as to constitute a danger to life and/or property of the public, access to the same may be had by the most expeditious route. Work is to be completed in a manner which will provide the traveling public with maximum possible safety and minimize traffic distribution. Notice of such situations shall be given to the nearest police authority and the department as soon as can reasonably be done under the circumstances. During normal Department work hours, the facility owner shall advise the Department of any operations within right of way which affect traffic operations or the highway structure or facilities prior to performance of the work. After normal Department work hours, the permittee, at the beginning of the first working day after the emergency operation, shall advise the Department of any operations which affect traffic operations or the highway structures and facilities. If determined necessary by the Department, the permittee shall secure an individual permit for such work after notification.
17. Upon the Department's request, as built drawings of work performed will be furnished to the Department within 30 days after completion of the work.
18. The permittee shall give notice to public utilities in accordance with Act 174 of 2013, as amended, and comply with all applicable requirements of this act. The permittee shall also comply with requirements of Act 451, P.A. of 1994, as amended.
19. The permittee acknowledges that the Department is without liability for the presence of the permittee's facility which is located within the trunkline right of way. Acceptance by the Department of work performed, and/or notice of termination of performance obligations for the surety and/or the permittee do not relieve the permittee of full responsibility for the permittee's work or for the presence of the permittee's facility in the trunkline right of way.
20. Where the Department has accepted an Indemnification Commitment in lieu of bond and/or insurance policies, such commitment is incorporated into this permit by reference.
21. It is illegal to discharge substances other than storm water into the Department's storm sewer system unless permission has been obtained in writing for other discharges.
22. The permittee shall be responsible for obtaining information on permitted environmental site closures within MDOT right of way. MDOT has implemented a program that allows environmental contamination to remain within the right of way by use of a permit. Issued permit information can be obtained from the Region/TSC in which the permit is issued. If the permittee will encounter a site area identified as a site closure permit area, the permittee shall follow instructions and conditions set forth in Supplemental Specifications #3 and specifications found in form 2205-C, "Special Conditions for Underground Construction".
- >>>NEW>>>
23. Other than for normal daily vehicle and equipment usage requirements, the permittee shall not use or store unattended equipment, or the following types of hazardous materials on, over, under, or immediately adjacent to Department or Local Agency owned buildings, bridges and structures, unless expressly approved by the Department in writing:
- Explosive, flammable gas, non-flammable gas, inhalation hazard, oxygen, flammable liquids, fuel oil, combustible, gasoline, flammable solids, spontaneously combustible, dangerous-when-wet, oxidizer organic peroxide, toxic, poisonous, inhalation hazard, infectious, radioactive, corrosive, or any other potentially hazardous material.
- Furthermore, the permittee shall not allow hazardous or unreasonably objectionable smoke, fumes, vapor, or odors to emit from any permitted operation. No junk, garbage, refuse or unused construction materials shall be stored or accumulated within the MDOT Right-of-Way.

1. Construction and Maintenance of Facilities – To construct and maintain utility crossings of limited access highways, access for the utility's service vehicles may be from county roads, service roads, and openings authorized in limited access right of way fences. The construction of utilities across limited access highways should be for the purpose of serving a general area rather than providing individual services, unless extenuating circumstances necessitate such crossings.

Equipment, vehicles or personnel will not operate within a distance of 30 feet from the edge of the pavement of roadways or ramps on limited access highways. At locations where utilities have been constructed in medians having a width greater than 80 feet or have otherwise been allowed to remain or to be constructed in limited access right of way, ingress and egress shall be by such routes as specified by the Department, which may also specify additional safety provisions.

2. Restoration- Restoration of the trunkline highway and right of way will be such that it will provide a condition equal to or better than the original condition, in accordance with Michigan Department of Transportation Standard Specifications.
3. Excavation and Disposal of Excavated Material – The permittee shall provide and place the necessary sheeting, shoring and bracing required to prevent caving, loss or settlement of foundation material supporting the pavement, or any other highway installation such as sewers, culverts, etc. The permittee shall assume the full responsibility for this protection and shall not proceed in these areas before approval of the methods by the Department.

Construction equipment and excavating material shall not be stocked in such locations that it creates a traffic hazard or interferes with the flow of traffic; and on limited access highways, shall be a minimum of 30 feet from the traveled way. Sod and topsoil shall be stacked separately from other excavated material. The permittee shall dispose of all surplus and unsuitable material outside of the limits of the highway, unless the permit provides for disposal at approved locations within right of way. In the latter case, the material shall be leveled and trimmed in an approved manner.

When the permittee is excavating within trunkline right of way and discovers existing contaminated soil and/or an abandoned underground storage tank, special permit specifications entitled "Special Conditions for Underground Construction" (Form 2205-C) shall apply.

4. Utility Cuts, Trenches and Pavement Replacement – Utility crossing by pavement cutting and removal are generally prohibited. If extenuating circumstances make tunneling, boring and jacking impractical pavement cutting may be used with approval of the Department. All utility cuts, trenching and pavement replacement shall comply with the requirements of the Standard Specifications and the Standard Plan "Utility Cuts, Trenches and Pavement Replacement". Unless otherwise specified, cuts in concrete residential and commercial drives shall be as above; except that the patch width shall be a minimum of 3 feet and the remaining slab from patch to existing joint shall be a minimum of 3 feet. Backfill shall be made with sand-gravel as specified in the Standard Specifications, unless otherwise directed. After the backfill has been placed and compacted by controlled density method, the pavement shall be replaced with new pavement of the original type and quality, unless at the season of the year when it is not feasible to replace pavement in kind. In this case, a temporary surface of bituminous material shall be placed with Department approval and later replaced with pavement of the original type at the applicant's expense. Other pavement types may be allowed with prior approval of the Department.

5. Crossing Roadbed by Tunneling or Boring and Jacking – All crossing of roadbed operations involving tunneling, boring and jacking shall comply with the Department's special provisions for such work.
6. Backfilling and Compacting Backfill – Unless otherwise specified, all trenches, holes and pits shall be filled with sound earth or with sand-gravel if so provided, placed in successive layers not more than 9 inches in depth, loose measure, and each layer shall be thoroughly compacted by tamping. All backfill compaction will be subject to check by the controlled density method.
7. Depth of Cover Method- Unless otherwise authorized, pipes shall be placed to a depth that will provide not less than 4 feet of cover between the top of the roadway surface and the pipe, 3 feet cover below the ditch line and the pipe.
8. Trees:
 - a. The permittee is responsible for obtaining permission from abutting owners when trimming or removing trees on easement right of way.
 - b. Tree removal or trimming may be undertaken only after submission of an "Advance Notice" through CPS, a field review by the Region Resource Specialist and an approved copy of the advanced notice is e-mailed to the permittee.
 - c. Limbs, logs, stumps and litter shall be disposed of in a manner acceptable to the Department.
 - d. Tree roots shall be bored a distance of one foot for each one inch of trunk diameter for underground utility installations
9. Aerial Wire Crossings – Vertical clearance of wires, conductors and cables over state trunkline shall not be less than required by Section 232 of the National Electrical Safety Code, except in no case shall the under-clearance below any wire, conductor, or cable, under any temperature or loading condition, be less than eighteen feet (18').