The City Of Medina Ohio
Dennis Hanwell, Mayor

132 North Elmwood Ave.
P.O. Box 703
Medina, Ohio 44258-0703
Phone: 330-725-8861
Fax: 330-722-9045
www.medinaoh.org

CITY OF MEDINA, OHIO
CITY HALL PARKING STRUCTURE STORM SEWER OUTLET INSTALLATION
CITY JOB No.: 1073

BIDS WILL BE RECEIVED BY THE CITY AT THE OFFICE OF THE MAYOR
CITY HALL, 132 NORTH ELMWOOD AVENUE, MEDINA, OHIO UNTIL
10:00 A.M., LOCAL TIME, **FRIDAY**, **JANUARY 29, 2021** AND
AT THAT TIME AND PLACE WILL BE PUBLICLY OPENED AND READ ALOUD

City of Medina Engineering Department
132 N. Elmwood Avenue
Medina, Ohio 44256
Phone: (330) 723-3846
Fax: (330) 722-9045

ADDENDUM No. 2
January 21, 2021

Bid Clarification

PROJECT PLANS
Please find below a description of the changes that have been made to the Project Plans for the City Hall Parking Structure Storm Sewer Outlet Installation. Attached are the five (5) plan sheets that have been revised, sheets 2, 4, 7, 8, and 10, to reflect these revisions. It was brought to the City's attention that proposed underground storm water storage chamber trench section, Detail 'G' as shown on the original project plans did not necessarily meet all the Occupational Safety and Health Administration (OSHA) requirements. After further investigation it was determined that this trench, as shown, was non-compliant and therefore this trench section has been revised. In addition, the project plans, specifications, and bid form have been updated to provide the contractor the opportunity to provide the City with an alternate method of installation (excavation and embankment) for the underground storm water storage chamber other than the method shown on the plans, say for example a shoring system. Please find below a brief description of the revisions made to each of the attached plan sheets per the changes as noted above:

Sheet 2 of 20: The note regarding the excavation and embankment for the underground storm water chamber has been revised to reflect the revisions to the trench section and corresponding unit price items.

Sheet 4 of 20: The underground storm water chamber earthwork calculations and notes have been revised to reflect the revisions made to the trench section for the storm water chamber. Revisions to the notes and calculations on this sheet also reflect the

changes that have been made to the unit price pay items to allow the contractor to select an alternate means of excavation and embankment for the storm water chamber.

Sheet 7 of 20: The trench limits for the underground storm water chamber has been expanded from 23'-6" to 26'-6" to accommodate the revised trench section. The underground storm water chamber was shifted 1.5 feet to the west to accommodate the revised trench section.

Sheet 8 of 20: The trench limits for the underground storm water chamber has been expanded from 23'-6" to 26'-6" to accommodate the revised trench section. The underground storm water chamber was shifted 1.5 feet to the west to accommodate the revised trench section.

Sheet 10 of 20: The proposed trench section A-A, Detail 'G', has been revised to be compliant with OSHA requirements. The elevation of the top of the stone embedment has been revised from 1086.17 to 1085.42. The top width of the excavation has been extended from 23'-6" to 26'-6". The stationing for manholes D-5 and D-6 has been revised to reflect the1.5 foot westerly shift of the proposed storm water chamber.

BID FORM

Please find below a description of the changes that have been made to the original project Bid Form included within the Contract Documents for the City Hall Parking Structure Storm Sewer Outlet Installation. Attached is a complete, six (6) pages total, revised project Bid Form (Section 8 Bid Documents) that reflects the changes as described below. **PLEASE BE ADVISED THAT FOR A BID TO BE ACCEPTED BY THE CITY OF MEDINA, THE ATTACHED REVISED BID FORM MUST BE SUBMITTED**. A bid submitted on the original Bid Form included within the Contract Documents **WILL NOT** be accepted.

Bid Form Changes:

1. The original bid form included three (3) separate unit price pay items for the earthwork (excavation and embankment) associated with the installation of the proposed underground storm water chamber. These items, as listed below, have been condensed into one (1) LUMP SUM pay item. The reason for this change is that the contractor will have the option to complete the excavation and embankment for the underground storm water chamber using an alternate method other than that shown on the plans. The original unit price pay items were paid by the cubic yard and were not conducive to the use of an alternate method of installation. Therefore, the following excavation and embankment pay items have been replaced with the single LUMP SUM pay item as shown below:

   Item 2a: ODOT 203 Excavation, not including embankment, including removal and disposal of excess material off site (for the underground storm water chamber), as per plan ..... 129 Cubic Yards

   Item 2b: ODOT 203 Excavation, not including embankment, for installation of the underground storm water chamber (including excavation and stockpiling of excavated material for use as embankment) as per plan.....656 Cubic Yards

   Item 3a: ODOT 203 Embankment, not including excavation, using clean onsite natural clay compacted in 8-inch lifts (for backfill of the underground storm water storage chamber) as per plan.....656 Cubic Yards

These three (3) unit price pay items, as shown on the original bid form, have now been replaced with the following LUMP SUM unit price item on the attached revised bid form:

Item 2: ODOT 203 Excavation and Embankment, including removal and disposal of excess material off site (for the installation of the underground storm water storage chamber, including stockpiling and transporting material), as per plan ..... LUMP SUM

2. The cubic yard quantity for pay Item No. 3b: ODOT 203 Embankment, not including excavation, including furnishing and placing ODOT Type 57 limestone aggregate (for foundation and embedment stone for the underground storm water storage chamber) as per plan has been changed from 107 cubic yards to **84 cubic yards**. This change in quantity is due to the revision to the proposed trench section for the underground storm water storage chamber.

PROJECT SPECIFICATIONS

Attached is the specification for unit price Item No. 2: ODOT 203 Excavation and Embankment, including removal and disposal of excess material off site (for installation of the underground storm water storage chamber, including stockpiling and transporting material), as per plan. This specification now replaces the specifications for the unit price pay Items Nos. 2a, 2b and 3a as provided within the original bid documents that have now been omitted.

8. BID DOCUMENTS

- NON-COLLUSION AGREEMENT
- BIDDER INFORMATION and EXPERIENCE FORM
- BID FORM

BID INSTRUCTIONS:

- Please be advised that for a Bid to be accepted for consideration by the City of Medina, the following items MUST be completed and submitted.

1. Non-Collusion Agreement (included within this section)
2. Bidder Information and Experience Record (included within this section)
3. Bid Proposal Form (included within this section)
4. Bid Bond (to be supplied by Bidder – refer to the "Bonds" paragraph of the "Information to Bidders" section of these Contract Documents (page 2 of Section 4))

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

(Please print or type)

STATE OF _____)

) ss:

COUNTY OF:_____)

I, (NAME) _____, being first duly sworn, deposes and

says that he or she is (TITLE)_____ of

(COMPANY/FIRM)_____ the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

BIDDER (COMPANY/FIRM):_____

SIGNED:_____

BY (NAME):_____

TITLE:_____

ADDRESS: _____

_____

Subscribed and sworn before me this _____ day of _____, 200_____.

_____

NOTARY PUBLIC

Notary Public in and for the State of _____

My commission expires: _____

Bids Due: 10:00 A.M. on
Friday, January 22, 2020

BIDDER INFORMATION AND EXPERIENCE RECORD

City of Medina Proj. #1073
City Hall Storm Sewer Outlet

Company Information:

1 Name of Firm:

2 Number of years in business:

3 Within the last five years, have there been any delinquencies, defaults, litigations or judgements relative to your firms performance relating to your firm's performance or abilities on projects similar to this one?

Project Experience:

Similar Projects - List three local similar types of projects; provide customer, location and contact information

1. Name of project_____

   Total project cost:_____

   Date project completed:_____

   Customer Name:_____

   Contact Name:_____

   Contact Phone #:

2. Name of project_____

   Total project cost:_____

   Date project completed:_____

   Customer Name:_____

   Contact Name:_____

   Contact Phone #:

3. Name of project_____

   Total project cost:_____

   Date project completed:_____

   Customer Name:_____

   Contact Name:_____

   Contact Phone #:

OFFICIAL BID FORM - CITY OF MEDINA PROJECT #1073
CITY HALL PARKING STRUCTURE STORM SEWER OUTLET INSTALLATION

Friday, January 22, 2021

To: The Mayor of the City of Medina
Medina City Hall
132 North Elmwood Avenue
Medina, Ohio 44256

The undersigned, as Bidder, declares that he/she has examined the site of work, together with the plans and specifications for the above named improvements and hereby proposes to furnish all labor, tools, materials, equipment and supervision necessary for the CITY HALL PARKING STRUCTURE STORM SEWER OUTLET INSTALLATION by clearing, grading, removing existing pavement; installing concrete pavement; installing concrete sidewalk; installing concrete curb; furnishing and installing storm sewers and appurtenances; furnishing and installing an underground stormwater chamber; necessary landscaping and seeding; together will all other necessary appurtenances within the City of Medina, known as being Job No. 1073, in accordance with the plans and specifications therefore, and in strict compliance therewith and under the direction and to the approval of the City Engineer for the following prices for materials and labor respectively, to wit (PLEASE NOTE, including this page, there are a total of SIX (6) pages in this bid form. Please verify that you receive and submit all SIX (6) pages):

The unit items included herein each contain a reference to either "ODOT", "Medina", or "ODOT/SC". Items which reference "ODOT" must be completed in strict accordance with the corresponding item in the ODOT Manual. Items which reference "Medina" must be completed in strict accordance with the City of Medina's specifications, which are included within these Contract Documents. Items that reference "ODOT/SC" (which refers to ODOT/Special Conditions) are to be completed in accordance with the corresponding ODOT specification AS modified within the Project Specifications section of the Contract Documents.

BASE BID ITEMS: City Hall Parking Structure Storm Sewer

ITEM NO	REFERENCE	DESCRIPTION	QTY	UNIT	UNIT COST	ITEM TOTAL
EXCAVATION & REMOVAL ITEMS						
1	ODOT/SC	ODOT 201 Clearing and Grubbing, complete as per plan	1	Lump Sum		
2	ODOT/SC	ODOT 203 Excavation and Embankment, including removal and disposal of excess material off site (for installation of the underground stormwater storage chamber, including stockpiling and transporting material), as per plan	1	Lump Sum		
3b	ODOT/SC	ODOT 203 Embankment, not including excavation, including furnishing and placing ODOT Type 57 limestone aggregate (for foundation and embedment stone for the underground stormwater storage chamber) as per plan.	84	Cubic Yard		
3c	ODOT/SC	ODOT 304 Aggregate Base, not including excavation, including furnishing and placing ODOT Type 304 limestone aggregate (for the underground stormwater chamber trench surface course only) as per plan.	88	Cubic Yard		
4	MEDINA	Pavement Removal, 7" to 18" Concrete, Asphalt or Composite pavement, including curb removal, including pavement sawing	677	Square Yard		
5	ODOT	ODOT 202 Walk Removed	1,530	Square Foot		
6	ODOT/SC	ODOT 202 Storm Sewer Pipe Removed, 24-inch diameter and under, NOT including excavation, trenching or backfilling	276	Lineal Foot		
7	ODOT/SC	ODOT 202 Storm Structure Removed, NOT including excavation, trenching or backfilling	4	Each		
					SUBTOTAL, EXCAVATION & REMOVAL ITEMS:	

ITEM NO	REFERENCE	DESCRIPTION	QTY	UNIT	UNIT COST	ITEM TOTAL
STORM SEWER ITEMS						
8a	MEDINA	Standard 2-2-B Catch Basin, complete in place per plan	1	Each		
8b	MEDINA	Standard 48-inch Storm Manhole, complete in place per plan	4	Each		
8c	MEDINA	Standard Curb Inlet Basin, complete in place as per plan detail	1	Each		
8d	MEDINA	Standard 72" Manhole Outlet Control Structure, (including weir wall & all internal plumbing) complete in place as per plan detail	1	Each		
9	MEDINA	Standard 48-inch Storm Manhole w/ vortex separator, complete in place per plan	1	Each		
10a	MEDINA	Storm Sewer, 12-inch diameter, within pavement areas (approx. 10' deep w/ premium fill required) as per plan (including trenching, furnishing and installing bedding, and backfill)	39	Lineal Foot		
10b	MEDINA	Storm Sewer, 15-inch diameter, within pavement areas (approx. 10' to 13' deep w/ premium fill required) as per plan (including trenching, furnishing and installing bedding, and backfill)	177	Lineal Foot		
10c	MEDINA	Storm Sewer, 18-inch diameter, within pavement areas (approx. 10' to 13' deep w/ premium fill required) as per plan (including trenching, furnishing and installing bedding, and backfill)	265	Lineal Foot		
10d	MEDINA	Storm Sewer, 24-inch diameter, within pavement areas (approx. 10' to 13' deep w/ premium fill required) as per plan (including trenching, furnishing and installing bedding, and backfill)	2	Lineal Foot		
11	MEDINA	Storm Sewer, 6-inch diameter PVC lateral, within pavement areas (premium fill required) as per plan (including trenching, furnish and install bedding, backfill and all fitting for connection)	50	Lineal Foot		
12	MEDINA	Underground Stormwater Storage Chamber, within pavement areas (including all components of the stormwater chamber and 6-inch underdrain and fabric, NOT including excavation, embedment stone, or backfill) complete in place as per plan	102	Lineal Foot		
13	MEDINA	Connection of Proposed Storm Sewer, 24-Inch Diameter and Under, to an existing storm sewer structure, complete as per plan	1	Each		
					SUBTOTAL, STORM SEWER ITEMS:	

ITEM NO	REFERENCE	DESCRIPTION	QTY	UNIT	UNIT COST	ITEM TOTAL
PAVEMENT & INCIDENTALS						
14	MEDINA	Concrete Sidewalk, Four (4) inch thick, complete in place as per plan	1,026	Square Foot		
15	MEDINA	Concrete Curb Ramp. ODOT Design A1, complete in place	60	Square Foot		
16	MEDINA	City of Medina "Commercial" Pavement For Drive Aprons (eight (8) inch fiber reinforced Type MS concrete pavement with two (2) inches of type 57 aggregate base). Unit price submitted to include furnishing and installing concrete pavement and 57 aggregate base including excavation.	18	Square Yard		
17	MEDINA	ODOT Item 609 Concrete Curb, Type 6, as per plan (eighteen (18) inch fiber reinforced Type QC1 concrete curb with six (6) inch curb reveal and three (3) inches of aggregate base), as per plan	281	Lineal Foot		
18	ODOT	ODOT 832 Erosion Control	4,000	Each		
19	ODOT	ODOT 614 Maintaining Traffic	1	Lump Sum		
20	MEDINA	Pre-Construction Video	1	Lump Sum		
21	MEDINA	Construction Layout	1	Lump Sum		
22	ODOT/SC	ODOT 624 Mobilization	1	Lump Sum		
23	ODOT	Premium for Contract Performance Bond and Maintenance Bond	1	Lump Sum		
					SUBTOTAL, PAVEMENT & INCIDENTALS:	

SUMMARY - BASE BID

SUBTOTAL, EXCAVATION AND REMOVAL ITEMS (Item #1 through #7):	
SUBTOTAL, STORM SEWER ITEMS (Item #8a through #13):	
SUBTOTAL, PAVEMENT & INCIDENTALS (Item #14 through #23):	
GRAND TOTAL, BASE BID (Items #1 through #23):	

SUMMARY OF COMPLETED BID

Total Amount of BASE BID Submitted - All Items #1 through #23 (in figures): $ _____

Total Amount of BASE BID Submitted - All Items #1 through #23 (in words): _____

Final Completion Date:** _____
(Final Completion Date CANNOT be later than June 30, 2021)

Please note, completion date will be a factor during the review and consideration of the bids received. It is possible that a bid other than the lowest bid received may be selected due to a more favorable completion date. Bidders are free to submit any date they purpose as long as that date is no later than June 30, 2021 for the Final Completion Date. **Final completion date shall be defined as the point where all pay items are installed AND accepted by the City of Medina. Please assume that a notice to proceed will be issued no later than **February 19, 2021**. Final Completion Date shall not be later than June 30, 2021.

Please be advised that for a Bid to be accepted for consideration by the City of Medina, the following items MUST be completed and submitted:
1. The Non-Collusion Agreement (included within the Project Specifications in Section 8: Bid Documents - the yellow sheets).
2. A Financial Guarantee (certified check or cashier's check, or bid bond) in the amount of ten percent (10%) of the amount bid.
3. Contractor Experience Record (included within the Project Specifications in Section 8: Bid Documents - the yellow sheets).
4. This Official Bid Form, fully completed and signed.

ACKNOWLDEDGEMENT OF RECEIPT OF ADDENDA

(Bidder must select and mark either #1 or #2 below)

#1) _____ I have received and reviewed the following Addenda (include numbers of all addenda received): _____

#2) _____ No addendum received for this project bid

By authorized signature below, the bidder certifies that he/she has received and reviewed the following Addenda for this project:

Authorized Signature: _____

Name (print): _____

The City of Medina reserves the right to reject any and all bids and to waive any informalities or irregularities in the bid.

SIGNATURE BLOCK

Name of Company: _____

Address of Company: _____

_____

Authorized Signature: _____ Phone #: _____

Name (print): _____ Fax #: _____

Title (print): Email:

ITEM NO. 2: ODOT 203 EXCAVATION AND EMBANKMENT, INCLUDING REMOVAL AND DISPOSAL OF EXCESS MATERIAL OFF SITE (for the installation of the underground storm water storage chamber, including stockpiling and transporting material), AS PER PLAN

The requirements for this item outlined in the ODOT Manual shall be modified to include and/or substitute the following:

1. This LUMP SUM unit price item shall include all costs for excavation, to the depths and the dimensions provided within the Project Plans, for the installation of the proposed underground storm water storage chamber. This item also includes costs for excavation, transporting, stockpiling and protecting the excavated material for later use as embankment.
2. The Project Plans and earthwork calculations indicate that an excess of excavated material will be generated with the installation of the proposed underground storm water storage chamber. This item shall include all costs to excavate per the plan profile, remove, transport and dispose of any and all excess soil materials generated from the installation of the underground storm water chamber to a pre-approved, off site location.
3. For this item the contractor will be required to provide the City Engineer the location of the dump site for which the excess material is being taken. Any costs to procure and obtain permitting for the dump site shall be included within the LUMP SUM unit price provided for this item.
4. This item shall NOT include costs for excavation and removal of trench spoils generated from the installation of varying diameter storm sewer. Costs for excavation and removal of the trench spoils for the installation of the various sized storm sewer shall be included within the lineal foot unit price provided for the pertinent storm sewer item.
5. A Geotechnical Engineer, contracted by the City, will test the soil to determine if it is suitable for use as embankment. Any soil deemed unsuitable as embankment shall be removed from the site and disposed of at an approved dump site.
6. All costs to remove the existing pavement and sidewalk from the excavation area shall be covered under separate unit price contract items including Item No. 4: Pavement Removal and Item No. 5: ODOT 202 Walk Removed. An existing pavement thickness of six (6) inches and an existing sidewalk thickness of four (4) inches was used within the stormwater storage chamber installation area for the earthwork calculations.
7. This LUMP SUM unit price item shall include all costs for embankment, to the depths, dimensions and specifications provided within the Project Plans and these specifications, for the installation of the proposed underground storm water storage chamber. This item also includes costs for transporting stockpiled material for use as embankment.
8. NOT included within the LUMP SUM unit price for this item shall be costs to perform compaction testing for the embankment as outlined within this specification. The City will provide all required testing with all costs for the testing to be borne by the City.
9. Soils used for embankment shall be excavated or stockpiled earth materials, as designated by the Engineer, comprised of well-graded natural materials that are relatively free of deleterious materials. Particle size shall be limited to a maximum of four inches for an 8-inch lift. For reuse of onsite clayey soils, the material shall be visually classified as ML-CL, CL, SC, SM, GC or material approved by the Geotechnical Engineer. The geotechnical firm doing the onsite compaction testing will complete a laboratory 5-point standard proctor test for the soils to be used as embankment that will be used in completing the field compaction testing.
10. The stockpiled soil material shall be compacted with a mechanical hand tampers near any pipe or concrete structures. Lifts shall be compacted with sheepsfoot roller a distance of 24 inches or greater from any concrete structure. The minimum dry density of 95% is required based on standard proctor obtained. The geotechnical engineer will take at least one test per every other lift, with one lift representing 100 lineal feet of pipe. Soil moisture shall be minus 2.0% to plus 4.0% wet of optimum. The prior lift shall be scarified and water added, as needed, to achieve the optimum water content under the direction of the geotechnical engineer. Sheepsfoot rollers will contribute to the process. The contractor shall not permit the upper most soil lift to be exposed for more than 24 hours, during hot weather; to minimize drying cracks. Should this happen, add additional moisture as directed by the geotechnical engineer and rescarify the top lift. Also, avoid long exposures to heavy rainfalls since clays are higher erodible.
11. The contractor does have the option of using an alternate method of installation for the proposed underground storm water chamber other than that shown on the project plans. However, any alternate methods of excavation and/or embankment selected for the installation of the underground chamber must meet all OSHA requirements and cannot interfere with the integrity of the underground storm water chamber installation as detailed on these plans. If an alternate method of installation is selected the contractor will be required to provide this method in writing to the City Engineer for review and approval prior to the start of construction.
12. Included within the LUMP SUM unit price provided for this item shall be any all costs for additional excavation or embankment necessary to accommodate all shoring, bracing or additional overdig operations for the installation of the underground storm water storage chamber. The City will NOT attempt to field quantify excavation or embankment quantities.
13. The LUMP SUM unit price provide for this item shall NOT include costs for the storm water chamber foundation and embedment stone or the 304 aggregate trench surface course. Cost for these items will be paid under separate unit price items.
14. Payment will be made based upon the LUMP SUM unit price bid for excavated material removed, transported, stockpiled, and protected; excavated material removed, transported, and disposed of to the off-site location; embankment material transported, placed, compacted to the project plans dimensions and specifications and accepted by the City of Medina. Payment and acceptance of this item is contingent upon completing the above requirements for this item.

GENERAL NOTES

UTILITIES

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

ELECTRIC DISTRIBUTION:
OHIO EDISON
BRAD COWLING
6326 LAKE AVENUE
ELYRIA, OHIO 44035
440-326-3238

COMMUNICATIONS:
FRONTIER
RANDY HOWARD
6223 NORWALK ROAD
MEDINA, OHIO 44256
330-722-9586

GAS TRANSMISSION:
COLUMBIA GAS TRANSMISSION
CHRIS TEMPLEMAN
589 N. STATE ROAD
MEDINA, OHIO 44258
330-416-0466

CATV:
ARMSTRONG CABLE
MARK LOYER
1141 LAFAYETTE ROAD
MEDINA, OHIO 44256
330-723-3536

SANITARY SEWER:
MEDINA COUNTY SANITARY ENGINEER
JEREMY SINKO
791 WEST SMITH ROAD
MEDINA, OHIO 44256
330-764-8331

WATER:
CITY OF MEDINA WATER DEPARTMENT
BILL MAGARGEE
3733 GRANGER ROAD
MEDINA, OHIO 44256
330-350-2215

GAS DISTRIBUTION:
COLUMBIA GAS DISTRIBUTION
TOM JADLOS
7080 FRY ROAD
MIDDLEBURG HTS., OHIO 44130
440-891-2493

ELECTRIC TRANSMISSION:
FIRST ENERGY CORP.
BRYAN HUNSCHE
76 S. MAIN STREET
AKRON, OHIO 44308
330-384-5180

STORM SEWERS:
CITY OF MEDINA - STORM SEWERS
PATRICK PATTON
132 NORTH ELMWOOD AVENUE
MEDINA, OHIO 44256
330-722-9034

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C. AND FROM AVAILABLE RECORDS AND FIELD INVESTIGATION AND ARE NOT NECESSARILY COMPLETE OR EXACT.

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL CALL BOTH THE OHIO UTILITIES PROTECTION SERVICE (OUPS - 1-800-382-2764) AND THE OIL & GAS PRODUCERS PROTECTION SERVICE (1-800-925-0988) TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK. NON-MEMBER UTILITY COMPANIES MUST BE CALLED DIRECTLY.

THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES LISTED ABOVE AT LEAST THREE (3) WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS ADJACENT TO THEIR FACILITIES THIS WORK SHALL CONFORM TO ODOT CMS ITEM 107.16. AS THERE ARE EXISTING UNDERGROUND UTILITIES WHICH CROSS THE PROPOSED WALK WORK AREAS, ALTHOUGH THEIR EXACT LOCATIONS HAVE NOT BEEN DETERMINED, IT IS KNOWN THAT UTILITIES ARE LOCATED WHERE DIGGING IS REQUIRED. THE CONTRACTOR SHALL CONDUCT THE REQUIRED EXCAVATION IN THESE AREAS WITH EXTREME CAUTION.

THE CONTRACTOR SHALL ENSURE THAT ACCESS AND ALL UTILITY SERVICES FOR ALL OCCUPIED BUILDING AND ADJACENT PROPERTIES ARE MAINTAINED.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAS BEEN OBTAINED BY DILIGENT FIELD CHECK AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE DESIGN ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR IS THEREFORE URGED TO PROCEED WITH CAUTION AND FOLLOW THE PROCEDURE FOR CONTACTING THE OHIO UTILITIES PROTECTION SERVICE PRIOR TO COMMENCING CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING WATER, SEWER, GAS, TELEPHONE, ELECTRIC AND CABLE SYSTEMS RESULTING FROM NON-CONFORMANCE WITH THESE NOTES AND APPLICABLE STANDARDS OR THROUGH GENERAL NEGLIGENCE.

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. THE CONTRACTOR MAY ONLY PERFORM WORK BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM ON WEEKDAYS AND 8:00 AM AND 5:00 PM ON WEEKENDS AND LEGAL HOLIDAYS. IN SPECIAL SITUATIONS, THE CITY WILL CONSIDER THE CONTRACTOR'S WRITTEN REQUEST TO PERFORM WORK OUTSIDE OF THE ABOVE OUTLINED HOURS. THE CITY ENGINEER WILL REVIEW THIS REQUEST AND DETERMINE IF PERFORMING WORK OUTSIDE THE STIPULATED TIMES IS WARRANTED AND/OR PRUDENT. ONLY UPON RECEIPT OF WRITTEN PERMISSION FROM THE CITY ENGINEER MAY THE CONTRACTOR PERFORM WORK OUTSIDE THE DESIGNATED WORKING HOURS.

THE STANDARD ODOT CONSTRUCTION DRAWINGS THAT WILL BE NEEDED DURING CONSTRUCTION AND REFERENCED ON THE PLANS ARE LISTED ON THE TITLES SHEET. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LATEST CONSTRUCTION DRAWINGS FROM ODOT'S WEB SITE www.dot.state.oh.us/DRRC.

THE CONTRACTOR IS REMINDED THAT ALL TRUCKS, EQUIPMENT, ETC. MUST BE WITHIN THE LEGAL WEIGHT REQUIREMENTS FOR THE ROADWAYS TRAVELED UPON WITHIN THE CITY OF MEDINA. LOCAL AUTHORITIES WILL PERIODICALLY CHECK TO ENSURE ALL CONSTRUCTION VEHICLES ARE WITHIN THE LEGAL WEIGHT REQUIREMENTS.

ALL WORK MUST BE INSPECTED AND APPROVED BY THE CITY ENGINEER OR HIS DULY APPOINTED AGENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CITY OF MEDINA ENGINEERING DEPARTMENT TO SCHEDULE PROJECT INSPECTION PRIOR TO COMMENCING WITH ANY WORK. ANY WORK COMPLETED WITHOUT CITY OF MEDINA INSPECTION MAY HAVE TO BE REMOVED AND REINSTALLED AT THE CONTRACTOR'S EXPENSE.

GENERAL NOTES (Continued)

ALL MATERIALS DELIVERED TO THE SITE SHALL BE INSPECTED BY THE CITY ENGINEER OR HIS DULY APPOINTED REPRESENTATIVE AT LEAST 24 HOURS PRIOR TO INSTALLATION.

EXISTING STRUCTURES

THE CONTRACTOR SHALL TAKE SPECIAL CARE IN WORKING AROUND ANY EXISTING STRUCTURES NOT INDICATED TO BE REPLACED OR ADJUSTED. ANY DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE REPAIRED AND/OR REPLACED WITH ALL COSTS BORNE BY THE CONTRACTOR.

PROJECT DATUM

PLAN ELEVATIONS ARE BASED ON AN ASSUMED DATUM. IN ADDITION THE COORDINATES SHOWN ON THIS PLAN ARE BASED ON AN ASSUMED DATUM.

ALL EXISTING PROPERTY PINS, RODS, MONUMENTS AND/OR BENCHMARKS WITHIN THE CONSTRUCTION ZONE MUST BE PROTECTED AT ALL TIMES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND NOT DISTURB THE EXISTING SURVEY MONUMENTATION. IF DISTURBED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RE-ESTABLISH THOSE EXISTING REFERENCE POINTS DISTURBED BY HIS WORK, BY USING HIS OWN ENGINEERING FORCES, AND/OR AS DIRECTED BY THE CITY ENGINEER AT NO ADDITIONAL COST TO THE CITY.

ROADWAY

ITEM 201 CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	No. OF TREES	No. OF STUMPS	TOTAL
6"	8	8	8
10"	2	2	10

WHEN WORKING AROUND ANY EXISTING TREES THAT ARE TO REMAIN, THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT THEM FROM ANY DAMAGE CAUSED BY CONSTRUCTION. ANY EXISTING TREES DESIGNATED TO REMAIN THAT ARE DAMAGED BY CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY. TREE REMOVAL SHALL INCLUDE THE COST TO REMOVE THE STUMP AS WELL.

ITEM 202 PAVEMENT REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE EXISTING VARIABLE THICKNESS COMPOSITE PAVEMENT TO LIMITS PROVIDE ON THE PLANS. PAYMENT WILL BE MADE BASED UPON THE SQUARE YARDS OF PAVEMENT REMOVED, THERE WILL BE NO DISTINCTION BETWEEN THE TYPES OF PAVEMENT REMOVED. FULL DEPTH SAWCUTTING NECESSARY TO PROVIDE A NEAT CLEAN PAVEMENT EDGE SHALL BE INCLUDED WIHTIN THE UNIT PRICE BID FOR PAVEMENT REMOVAL. IF THE SAWCUT PAVEMENT EDGE IS SEVERLY DAMAGED DURING THE STORM SEWER INSTALLATION THE CONTRACTOR WILL BE REQUIRED TO RE-CUT A NEAT EDGE. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE ADDITIONAL SAWCUTTING. THIS ITEM SHALL ALSO INCLUDE THE REMOVAL OF ALL CURBING AS SHOWN ON THE PLANS. THE SQUARE YARD AREA OF CURB REMOVED SHALL BE INCLUDED WITHIN THE PAYABLE QUANTITY FOR THIS PAVEMENT REMOVAL ITEM.

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE LOCATION OF THE DUMP SITE FOR THE PAVEMENT REMOVED WITH THIS PROJECT TO THE CITY ENGINEER.

EARTHWORK

THE CONTRACTOR SHALL DEWATER THE EXCAVATION AS NECESSARY AND MAINTAIN GOOD SURFACE DRAINAGE OF THE CONSTRUCTION AREA. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS SO AS TO ELIMINATE PONDING ON THE SITE.

ALL EXCESS TRENCH EXCAVATION SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF AT A PREDESIGNATED OFFSITE LOCATION. STORAGE OF TRENCH EXCAVATION OR BACKFILL MATERIAL WITHIN THE ROADWAY OF W. LIBERTY STREET WILL NOT BE PERMITTED OVERNIGHT. ALL EXISTING STREETS SHALL BE KEPT CLEAN OF SOIL AND/OR DEBRIS.

THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL MATERIAL DEEMED UNSUITABLE FOR BACKFILL BY THE ENGINEER AND DISPOSED OF OFFSITE.

NO OFFSITE GRADING SHALL BE PERMITTED WITHOUT PRIOR WRITTEN CONSENT FROM THE PROPERTY OWNER OF THE LAND TO BE GRADED. A COPY OF THE WRITTEN CONSENT MUST BE PROVIDED TO THE CITY ENGINEER FOR RECORD PURPOSES.

MATERIALS REMOVED FROM THE EXCAVATION SHALL NOT BE STOCKPILED IMMEDIATELY ADJACENT TO THE EXCAVATION.

PAYMENT FOR THE EXCAVATION NECESSARY FOR THE INSTALLATION OF THE PROPOSED DRIVE APRON, EXCLUDING PAVEMENT REMOVAL, AS PER THE PLAN CROSS SECTIONS, SHALL BE INCLUDED WITHIN THE SQUARE YARD UNIT PRICE BID FOR THE INSTALLATION OF THE DRIVE APRON PAVEMENT.

ANY FOREIGN MATERIAL (LANDSCAPING, ROCKS, RAILROAD TIES, ETC.)NOT CALLED OUT ON THE PLANS AND FOUND WITHIN THE TRENCH EXCAVATION SHALL BE REMOVED BY THE CONTRACTOR. ANY AND ALL COSTS TO PERFORM THE ABOVE MENTIONED WORK SHALL BE INCLUDED WITHIN THE LINEAL FOOT UNIT PRICE BID FOR THE INSTALLATION OF THE PROPOSED STORM SEWER.

EXCAVATION AND EMBANKMENT FOR UNDERGROUND STORMWATER CHAMBER INSTALLATION

THE EXCAVATION AND EMBANKMENT CUBIC YARD QUANTITIES PROVIDED WITHIN THE CONTRACT DOCUMENTS FOR THE INSTALLATION OF THE PROPOSED UNDERGROUND STORM WATER CHAMBER WERE CALCULATED BASED ON THE TRENCH SECTION SHOWN ON THESE PLANS. PAYMENT FOR EXCAVATION AND EMBANKMENT FOR THE INSTALLATION OF THIS CHAMBER SHALL BE AS NOTED WITHIN THE EARTHWORK CALCULATIONS AND NOTES PROVIDED ON SHEET 4 OF 20. ANY COSTS FOR ADDITIONAL EXCAVATION OR EMBANKMENT NECESSARY TO ACCOMMODATE SHORING, BRACING OR ADDITIONAL OVERDIG OPERATIONS SHOULD BE INCLUDED WITHIN THE LUMP SUM UNIT PRICE PROVIDED FOR THE EXCAVATION AND EMBANKMENT ITEM. THE CITY WILL NOT ATTEMPT TO FIELD QUANTIFY EXCAVATION OR EMBANKMENT QUANTITIES.

ROADWAY (Continued)

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL STOCKPILE EXCAVATED MATERIAL TO BE USED AS EMBANKMENT FROM BECOMING CONTAMINATED WITH DELETERIOUS MATERIAL OR FROM BECOMING SATURATED DUE TO INCLEMENT WEATHER. ANY AND ALL COSTS TO REWORK THE STOCKPILED EXCAVATED MATERIAL TO MAKE SUITABLE SOILS FOR EMBANKMENT TO MEET THE COMPACTION REQUIREMENTS SHALL BE INCLUDED WITHIN THE CUBIC YARD UNIT PRICE FOR EMBANKMENT. THE CONTRACTOR WILL BE REQUIRED TO REPLACE ANY EXCAVATED MATERIAL THAT BECOMES CONTAMINATED OR UNUSABLE DUE TO NEGLIGENCE AS DEEMED BY THE CITY ENGINEER.

ALL EXCESS TRENCH EXCAVATION NOT USED FOR EMBANKMENT SHALL BE REMOVED FROM THE SITE TO A PRE-APPROVED OFF SITE LOCATION. COSTS TO COMPLETE THIS WORK SHALL BE INCLUDED WITHIN THE CUBIC YARD UNIT PRICE SUBMITTED FOR EXCAVATION INCLUDING REMOVAL AND DISPOSAL OF EXCESS MATERIAL.

EMBANKMENT USING THE CLAY MATERIAL FROM THE EXCAVATION OF THE UNDERGROUND STORM WATER CHAMBER SHALL BE PLACED IN MAXIMUM 8-INCH LOOSE LIFTS AND BENCHED INTO PLACE. PARTICLE SIZE SHALL BE LIMITED TO A MAXIMUM OF 4-INCHES FOR AN 8-INCH LIFT. LIFTS SHALL BE COMPACTED WITH A SHEEPSFOOT ROLLER OR OTHER EQUIPMENT APPROVED BY THE CITY ENGINEER UNTIL A MINIMUM DRY DENSITY OF 95% BASED ON THE STANDARD PROCTOR IS OBTAINED. THE GEOTECHNICAL ENGINEER WILL TAKE AL LEAST ONE TEST PER EVERY SECOND LIFT. SOIL MOISTURE SHALL BE MINUS 2.0% TO PLUS 4.0% WET OF OPTIMUM. THE CITY WILL PROVIDE AND BEAR ALL COSTS FOR THE GEOTECHNICAL TESTING; HOWEVER, THE CONTRACTOR WILL BE REQUIRED TO SCHEDULE TESTING THROUGH THE CITY ENGINEER'S OFFICE.

PAVEMENT

8" REINFORCED CONCRETE PAVEMENT, CLASS 'QC MS', AS PER PLAN FOR DRIVE APRONS

ALL COSTS TO FURNISH AND INSTALL THE 2" - ITEM 304 AGGREGATE BASE SHALL BE INCLUDED WITHIN THE UNIT PRICE BID FOR 8" REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN.

CONCRETE USED FOR THE PROPOSED 8" DRIVE APRON SHALL BE FIBER REINFORCED CLASS ' QC MS' CONCRETE. A MIX DESIGN MUST BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PLACEMENT OF ANY CONCRETE.

FIBER REINFORCEMENT SHALL CONSIST OF FIBRILLATED POLYPROPYLENE FIBERMESH. FIBERS SHALL BE 100% VIRGIN POLYPROPYLENE. FORM OF THE FIBERS SHALL BE COLLATED FIBRILLATED FIBER. FIBER LENGTH SHALL BE $\frac{3}{4}$", $\frac{3}{4}$", AND $1\frac{1}{2}$". ALL FIBERS SUPPLIED MUST BE SUPPLIED IN ACCORDANCE WITH ASTM-C-116-89 " SPECIFICATIONS FOR FIBER REINFORCED CONCRETE AND SHORCRETE" CLASSIFICATIONS 4.1.3 TYPE III. FIBER REINFORCEMENT SHALL BE SUPPLIED AT A MINIMUM OF 1.5 POUNDS PER CUBIC YARD.

ALL COSTS FOR EXCAVATION AND EMBANKMENT AS PER THE PLAN TO INSTALL THE PROPOSED 8" REINFORCED CONCRETE DRIVE APRON SHALL BE INCLUDED WITHIN THE UNIT PRICE BID FOR THIS ITEM.

ODOT ITEM 609 CONCRETE CURB, TYPE 6

ALL COSTS TO FURNISH AND INSTALL THE 3" - ITEM 304 AGGREGATE BASE SHALL BE INCLUDED WITHIN THE LINEAL FOOT UNIT PRICE PROVIDED FOR CONCRETE CURB, TYPE 6, AS PER PLAN.

CONCRETE USED FOR THE PROPOSED CONCRETE CURB SHALL BE FIBER REINFORCED CLASS ' QC1' CONCRETE. A MIX DESIGN MUST BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PLACEMENT OF ANY CONCRETE.

FIBER REINFORCEMENT SHALL CONSIST OF FIBRILLATED POLYPROPYLENE FIBERMESH. FIBERS SHALL BE 100% VIRGIN POLYPROPYLENE. FORM OF THE FIBERS SHALL BE COLLATED FIBRILLATED FIBER. FIBER LENGTH SHALL BE $\frac{3}{4}$", $\frac{3}{4}$", AND $1\frac{1}{2}$". ALL FIBERS SUPPLIED MUST BE SUPPLIED IN ACCORDANCE WITH ASTM-C-116-89 " SPECIFICATIONS FOR FIBER REINFORCED CONCRETE AND SHORCRETE" CLASSIFICATIONS 4.1.3 TYPE III. FIBER REINFORCEMENT SHALL BE SUPPLIED AT A MINIMUM OF 1.5 POUNDS PER CUBIC YARD.

ALL COSTS FOR EXCAVATION AND EMBANKMENT TO INSTALL THE PROPOSED REINFORCED CONCRETE CURB SHALL BE INCLUDED WITHIN THE LINEAL FOOT UNIT PRICE BID FOR THIS ITEM.

IT IS THE CITY'S INTENTION TO NOT REPLACE THE EXISTING CURB AND SIDWALK NORTH OF THE TRENCH LIMITS UNLESS ABSOLUTELY NECESSARY DUE TO SPACE LIMITATIONS DURING THE STORM SEWER INSTALLATION. A CONTINGENCY QUANTITY OF 200 LINEAL FEET OF CONCRETE CURB HAS BEEN PROVIDED TO BE USED AS DIRECTED BY THE CITY ENGINEER FOR THIS REASON.

ODOT TYPE 304 AGGREGATE AS TRENCH SURFACE COURSE

PAYMENT FOR THE CUBIC YARDS OF ODOT TYPE 304 AGGREGATE FURNISHED AND COMPACTED IN PLACE AS A DRIVEABLE SURFACE WITHIN THE PARKING DECK ACCESS DRIVE AREA SHALL BE MADE BASED ON FIELD MEASUREMENTS OBTAINED FOR THE ACTUAL AREA OF INSTALLATION. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE MATERIAL TICKETS FOR THE 304 AGGREGATE MATERIAL FURNISHED AND PLACED. EXCESS MATERIAL STOCKPILED AND NOT PLACED WILL NOT BE PAYABLE UNDER THIS ITEM.

RECYLCED 304 AGGREGATE WILL NOT BE PERMITTED TO BE USED WITHIN THE 9 INCH SURFACE COURSE OF MATERIAL TO BE PLACED WITHIN THE PARKING DECK ACCESS DRIVE.

- REVISION - JANUARY 19, 2021

CITY OF MEDINA

Project: CITY HALL PARKING STRUCTURE
STORM SEWER OUTLET

GENERAL NOTES / CONSTRUCTION NOTES

Scales:

SEPTEMBER, 2020

Revisions:

Sheet Number:
2 of 20

CITY JOB No. 1073

Dwg. File #: 1073 \ dwg \ 1073_GENERAL NOTES_dwg

EROSION CONTROL

ITEM 832 TEMPORARY SEDIMENT AND EROSION CONTROL

AN ESTIMATED QUANTITY HAS BEEN PROVIDED WITHIN THE BID FORM FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES TO BE USED AS DIRECTED BY THE CITY ENGINEER WHERE PROJECT CONDITIONS SO DICTATE. UNIT PRICES PROVIDED WITHIN ODOT SUPPLEMENTAL SPECIFICATION 832 (2016)SHALL APPLY TO ANY EROSION CONTROL MEASURES USED UNDER THIS ITEM. SILT SACK INSTALLATION SHALL BE PAID FOR BASED ON THE OUTER PERMETER MEASUREMENT OF THE SILT SACK AT THE LINEAL FOOT UNIT PRICE FOR INLET PROTECTION PROVIDED IN ODOT SUPPLEMENTAL SPECIFICATION 832.

EROSION CONTROL NOTES

ALL EROSION AND SEDIMENT CONTROL PRACTICES SPECIFIED ON THIS PLAN SHALL CONFORM WITH THE DETAILS AND SPECIFICATIONS OUTLINED IN THE OHIO DEPARTMENT OF NATURAL RESOURCE MANUAL, "RAINWATER AND LAND DEVELOPMENT".

ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE IMPLEMENTED PRIOR TO ANY MAJOR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INSPECTIONS OF ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER ALL SIGNIFICANT RAINFALLS. ANY NEEDED REPAIRS SHALL BE DONE IMMEDIATELY. EROSION DEVICES TO BE REMOVED AFTER SITE IS STABILIZED OR PAVING IN URBAN AREAS IS COMPLETE AS DIRECTED BY THE CITY ENGINEER.

ALL CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUE PERFORMANCE OR THEIR INTENDED FUNCTION.

SEDIMENT BASINS / TRAPS AND PERIMETER SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE PERMANENTLY STABILIZED.

SEED AND MULCH ALL DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE ON ANY PORTION OF THE PROJECT.

SEED AND MULCH WITHIN 50 FEET OF ANY STREAM 2 DAYS ON ALL INACTIVE DISTURBED AREAS.

DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF 21 DAYS OR LONGER SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN 7 DAYS OF THE LAST DISTURBANCE.

A FULL LOT OF SEEDING AND MULCHING SHALL BE APPLIED TO ALL BARE AREAS IMMEDIATELY AFTER THE RECONSTRUCTION OF THE ROADWAY HAS BEEN COMPLETED.

INSTALL SILT FENCE AS PER ODOT STANDARD DRAWING DM-4.4 (DATED 1-15-16).

EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SHOWN ON THIS PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH-MOVING ACTIVITIES. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES AS DIRECTED BY THE CITY ENGINEER.

ALL SOLID, SANITARY, AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

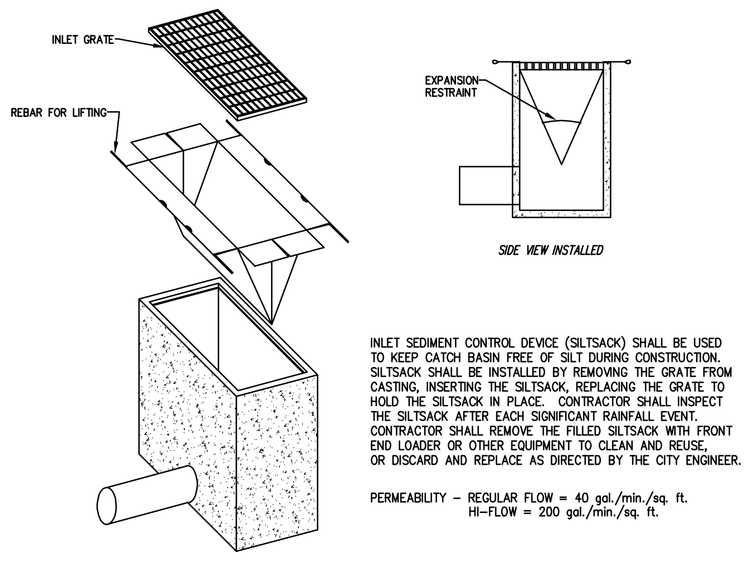
ALL SILTSACKS INSTALLED WITHIN THE EXISTING OR PROPOSED CURB INLET BASINS MUST BE INSPECTED AFTER EACH SIGNIFICANT RAINFALL EVENT. ANY SILT SACK NOT PROPERLY FUNCTIONING SHALL BE CLEANED AND REINSTALLED SO THAT IT IS WORKING PROPERLY.

SILTSACKS SHALL BE INSTALLED WITHIN THE INLET BASINS AS NOTED ON THE PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE SILTSACKS SHALL BE REMOVED WHEN THE UPLAND AREAS AREA STABILIZED OR PAVED AS DIRECTED BY THE CITY ENGINEER.

SILTSACKS SHALL BE INSTALLED WITHIN NEW INLET BASINS IMMEDIATELY AFTER INSTALLATION.

INSPECT DISTURBED AREAS AND STORAGE AREAS FOR POTENTIAL OR EVIDENCE OF POLLUTANT ENTERING THE DRAINAGE SYSTEM, AND INSPECT DISCHARGE LOCATIONS TO ASCERTAIN WHETHER CONTROLS MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS.

INSPECT ENTRANCES AND EXITS OF THE SITE FOR EVIDENCE OF OFF-SITE TRACKING. THE CONTRACTOR SHALL KEEP ALL ADJACENT STREETS CLEAN AND FREE OF MUD AND DEBRIS.



INLET SEDIMENT CONTROL DEVICE DETAIL (SILTSACK)
N.T.S.

PROPERTY OWNER ACCESS / WORK AREA

CONSTRUCTION ADJACENT TO DRIVES

ACCESS TO COMMERCIAL AND RESIDENTIAL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. THE PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO MAINTAIN COMMERCIAL ACCESS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

THE CONTRACTOR SHALL PLAN/STAGE ALL WORK TO MAINTAIN A SAFE ACCESS TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES AT ALL TIMES. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE APPROVAL OF THE CITY ENGINEER WHICH OUTLINES HIS STRATEGY FOR MAINTENANCE OF SAFE ACCESS TO COMMERCIAL AND RESIDENTIAL PROPERTIES. ALL COSTS SHALL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

MATERIALS AND EQUIPMENT STORAGE AREA

THE EXISTING RIGHT OF WAY OF W. LIBERTY STREET 66 FEET IN WIDTH. THE CONTRACTOR MAY STORE EQUIPMENT AND MATERIALS WITHIN THE WORK ZONE ON W. LIBERTY STREET DURING WORKING HOURS; HOWEVER, EQUIPMENT AND MATERIAL MAY NOT BE STORED WITHIN THE ROADWAY OVERNIGHT. THE CITY OWNS THE EXISTING PARKING LOT ADJACENT TO THE WORK ZONE(PARCEL # 028-19A-21-387.) THE CONTRACTOR MAY USE A PORTION OF THIS PARKING LOT AS A STAGING AREA; HOWEVER, THIS PARKING LOT WILL REMAIN OPEN TO THE PUBLIC DURING CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN A LEAST ONE DRIVE ENTRANCE AT ALL TIMES TO THE PARKING LOT. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR AND CITY ENGINEER WILL MEET ON SITE TO DELINEATE THE AREA OF THE PARKING LOT TO BE USED AS A STAGING AREA.

THE CONTRACTOR MAY USE THE EXISTING PARKING LOT (AS NOTED ABOVE) TO STORE EXCAVATED MATERIAL FOR USE AS EMBANKMENT ALONG WITH STAGING EQUIPMENT AND MATERIAL. THIS PARKING LOT AREA IS INTENDED TO BE DEVELOPMENT IN THE NEAR FUTURE; HOWEVER, ONCE THE PROJECT IS COMPLETE, IT IS INTENDED TO AGAIN BE UTILIZED FOR PUBLIC PARKING USING THE EXISTING CONCRETE PARING LOT. THE CONTRACTOR, WHERE AND WHEN POSSIBLE, SHALL PROTECT THE EXISTING CONCRETE PAVEMENT TO THE BEST OF HIS ABILITY TO PREVENT UNNECESSARY DAMAGE TO THE PAVEMENT. ANY PAVEMENT DAMAGED DUE TO NEGLIGENT ACTIONS BY THE CONTRACTOR AS DEEMED BY THE CITY ENGINEER SHALL BE REPLACED WITH ALL COSTS BORNE BY THE CONTRACTOR. THE CONTRACTOR WILL BE REQUIRED TO THOROUGHLY CLEAN THE EXISTING PARKING LOT OF ALL DIRT, DEBRIS, AND CONSTRUCTION MATERIAL PRIOR TO ACCEPTANCE BY THE CITY OF MEDINA. THE PRE-CONSTRUCTION VIDEO SHOULD COVER ALL ASPECTS OF THE PARKING LOT IN DETAIL. THE CONTRACTOR AND CITY ENGINEER WILL TOGETHER INSPECT THE PARKING LOT ONCE THE PROJECT IS COMPLETE TO ENSURE THE PARKING LOT IS SAFE FOR USE BY THE PUBLIC.

UNDERGROUND STORMWATER CHAMBER EARTHWORK CALCULATIONS

THE EXCAVATION AND EMBANKMENT CUBIC YARD QUANTITIES PROVIDED HEREON FOR THE INSTALLATION OF THE PROPOSED UNDERGROUND STORM WATER CHAMBER WERE CALCULATED BASED ON THE PROPOSED TRENCH SECTION SHOWN WITHIN THESE PLANS. THESE QUANTITIES ARE BEING PROVIDED FOR REFERENCE PURPOSES ONLY. ALL COSTS FOR THE EXCAVATION AND EMBANKMENT FOR THE INSTALLATION OF THE UNDERGROUND STORM WATER CHAMBER SHALL BE INCLUDED WITHIN THE LUMP SUM UNIT PRICE PROVIDED FOR THE EXCAVATION AND EMBANKMENT ITEM FOR THE UNDERGROUND STORM WATE CHAMBER. ANY AND ALL COSTS FOR EXCAVATION OR EMBANKMENT NECESSARY TO ACCOMMODATE SHORING, BRACING OR ADDITIONAL OVERDIG OPERATIONS SHOULD BE INCLUDED WITHIN THE LUMP SUM UNIT PRICE PROVIDED FOR THE EXCAVATION AND EMBANKMENT ITEM. THE CITY WILL NOT ATTEMPT TO FIELD QUANTIFY EXCAVATION OR EMBANKMENT QUANTITIES. PLEASE NOTE THE LUMP SUM UNIT PRICE FOR THE EXCAVATION AND EMBANKMENT SHALL NOT INCLUDE COSTS FOR THE STORM WATER CHAMBER FOUNDATION AND EMBEDMENT STONE OR THE 304 AGGREGATE TRENCH SURFACE COURSE. COSTS FOR THE ITEMS WILL BE PAID UNDER SEPARATE UNIT PRICE ITEMS.

A LUMP SUM UNIT PRICE WAS SELECTED FOR THE EXCAVATION AND EMBANKMENT FOR THE INSTALLATION OF THE UNDERGROUND STORM WATER CHAMBER AS THE CONTRACTOR DOES HAVE THE OPTION OF USING AN ALTERNATE METHOD OF INSTALLATION OTHER THAN THE TRENCH SECTION PROVIDED IN THESE PLANS. HOWEVER, ANY ALTERNATE METHODS OF EXCAVATION FOR THE INSTALLATION OF THE CHAMBER MUST MEET ALL OSHA REQUIREMENTS AND CANNOT INTERFERE WITH THE INTEGRITY OF THE UNDERGROUND STORM WATER CHAMBER INSTALLATION AS DETAILED ON THESE PLANS. IF AN ALTERNATE METHOD OF INSTALLATION IS SELECTED THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THIS METHOD IN WRITING TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION.

THE FOLLOWING CALCULATIONS AND QUANTITIES APPLY TO UNIT PRICE ITEM No. 2: EXCAVATION AND EMBANKMENT, INCLUDING REMOVAL AND DISPOSAL OF EXCESS MATERIAL OFF SITE (FOR THE INSTALLATION OF THE UNDERGROUND STORM WATER STORAGE CHAMBER, INCLUDING STOCKPILING AND TRANSPORTING MATERIAL), AS PER PLAN:

TOTAL EXCAVATION (EXCLUDING PAVEMENT) FOR CHAMBER INSTALLATION = 1,009.5 CY

TOTAL EXCAVATION OF TRENCH INCLUDING PAVEMENT
135 LF X 210 SF = 28,350 CF / 27 = 1,050 CY (SEE TRENCH DETAIL 'G', SHT. No. 10)

MINUS PAVEMENT REMOVAL WITHIN TRENCH AREA = 40.5 CY
0.5 LF X 2,185 SF = 1,092.5 CF = 40.5 CY

TOTAL TRENCH EXCAVATION = 1,050 CY - 40.5 CY = 1,009.5 CY

TOTAL EMBANKMENT USING ONSITE CLAY FILL FOR CHAMBER INSTALLATION = 928 CY

TOTAL EXCAVATION FOR CHAMBER = 1,050 CY
TOTAL AREA OF STONE & CHAMBER WITHIN TRENCH = 118.9 CY
TOTAL AREA OF 304 STONE SURFACE COURSE WITHIN TRENCH = 88.1 CY
(135 LF x 23.5 LF x 0.75 LF) / 27 = 88.1 CY

TOTAL CLAYEY FILL EMBANKMENT FOR CHAMBER = 1,050 CY - 118.9 CY - 88.1 CY = 843 CY

ADD 10% TO THE EMBANKMENT FOR COMPACTION = 843 CY + (843 CY * 0.10) = 928 CY

EXCAVATION INCLUDING MATERIAL HAUL-OFF = 81.5 CY

TOTAL TRENCH EXCAVATION (MINUS PAVEMENT REMOVAL) = 1,009.5 CY
EXCAVATION USED FOR EMBANKMENT = 928 CY

TOTAL EXCAVATION INCLUDING HAUL-OFF = 1,009.5 CY - 928 CY = 81.5 CY

THE FOLLOWING CALCULATIONS AND QUANTITY APPLIES TO UNIT PRICE ITEM No. 3b: EMBANKMENT, NOT INCLUDING EXCAVATION, INCLUDING FURNISHING AND PLACING ODOT 57 LIMESTONE AGGREGATE (FOR FOUNDATION AND EMBEDMENT STONE FOR THE UNDER), AS PER PLAN:

TOTAL EMBEDMENT AND FOUNDATION STONE FOR CHAMBER INSTALLATION = 84.4 CY

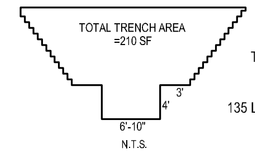
TOTAL AREA OF STONE & CHAMBER WITHIN TRENCH
27.33 SF x 117.5 FT. = 3,211.3 CF / 27 = 118.9 CY

MINUS THE CHAMBER VOLUME = 24.34 CY
CHAMBER WITHIN TRENCH: LENGTH = 101.24 LF AREA = 6.49 SF.
CHAMBER VOLUME = 101.24 LF x 6.49 SF = 657.05 CF / 27 = 24.34 CY

MINUS THE MANHOLE VOLUMES = 10.2 CY
48" MANHOLE = (6.25 FT x 3.14 x 4.75 FT) / 27 = 3.45 CY
72" MANHOLE = (12.25 FT x 3.14 x 4.75 FT) / 27 = 6.76 CY
TOTAL MANHOLE VOLUMES = 3.45 CY + 6.76 CY = 10.2 CY

TOTAL FOUNDATION AND EMBEDMENT STONE = 118.9 CY - 24.34 CY - 10.2 CY = 84.4 CY

STORMWATER UNDERGROUND CHAMBER EARTHWORK CALCULATIONS (Continued)

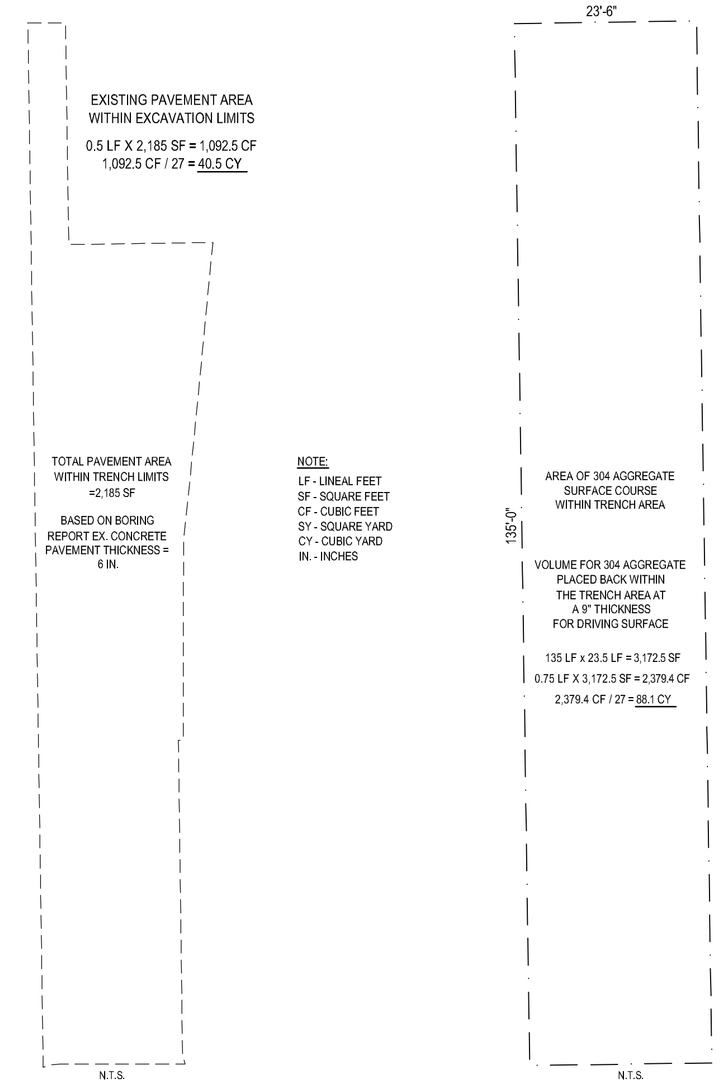


TOTAL EXCAVATION FOR TRENCH
LENGTH OF 135 LF

135 LF X 210 SF = 28,350 CF / 27 = 1,050 CY

LENGTH OF STONE & CHAMBER WITHIN TRENCH = 117.50'
AREA OF STONE & CHAMBER WITHIN TRENCH
27.33 SF X 117.5 LF = 3,211.3 CF / 27 = 118.9 CY

FOR ACTUAL TRENCH DIMENSIONS SEE DETAIL 'G', SHEET 10 OF 20



EARTHWORK PAY QUANTITIES FOR UNDERGROUND CHAMBER INSTALLATION

- ITEM 2: ODOT 203 EXCAVATION AND EMBANKMENT, INCLUDING REMOVAL AND DISPOSAL OF EXCESS MATERIAL OFF SITE (FOR INSTALLATION OF THE UNDERGROUND STORWATER STORAGE CHAMBER), AS PER PLAN.....LUMP SUM
- ITEM 3b: ODOT 203 EMBANKMENT, NOT INCLUDING EXCAVATION, INCLUDING FURNISHING AND PLACING ODOT TYPE 57 LIMESTONE AGGREGATE (FOR FOUNDATION AND EMBEDMENT STONE FOR THE UNDERGROUND STORMWATER STORAGE CHAMBER), AS PER PLAN.....84 CY
- ITEM 3c: ODOT 203 EMBANKMENT, NOT INCLUDING EXCAVATION, INCLUDING FURNISHING AND PLACING ODOT TYPE 304 LIMESTONE AGGREGATE (FOR THE UNDERGROUND STORMWATER STORAGE CHAMBER TRENCH SURFACE COURSE ONLY), AS PER PLAN.....88 CY

- REVISION - JANUARY 19, 2021

CITY OF MEDINA

Project: CITY HALL PARKING STRUCTURE
STORM SEWER OUTLET

GENERAL NOTES / CONSTRUCTION NOTES

Scales:

SEPTEMBER, 2020

Revisions:

Sheet Number:
4 of 20

CITY JOB No. 1073

Dwg. File #: 1073 \ dwg \ 1073_GENERAL NOTES_.dwg

SITE PLAN
MEDINA CITY HALL
PARKING STRUCTURE
STORM SEWER SYSTEM

PLAN REVISIONS 1/19/21

1. THE TRENCH LIMITS FOR THE UNDERGROUND STORM CHAMBER WAS EXPANDED FROM 23'-6" WIDE TO 26'-6" WIDE.
2. THE UNDERGROUND STORM WATER CHAMBER WAS SHIFTED 1.5' WEST.

– PROPOSED AREA OF PAVEMENT REPAIR (SEE DETAIL 'F', SHT. No. 9)

– PROPOSED DRIVE APRON REMOVAL AND REPLACEMENT (SEE DETAIL 'A' & 'B', SHT. No. 5)

– PROPOSED SIDEWALK REMOVAL AND REPLACEMENT (SEE DETAIL 'B', SHT. No. 5)

– PROPOSED CURB RAMP REMOVAL AND REPLACEMENT (SEE ODOT STANDARD DRAWING B.7.1)

NOTE:
IT IS THE CITY'S INTENTION TO NOT REPLACE THE EXISTING PAVEMENT, CURB AND SIDEWALK NORTH OF THE TRENCH LIMITS UNLESS ABSOLUTELY NECESSARY DUE TO EQUIPMENT LIMITATIONS DURING THE STORM SEWER INSTALLATION. A CONTINGENCY QUANTITY OF 200 LF OF CONCRETE CURB ALONG WITH 950 SF OF SIDEWALK HAVE BEEN INCLUDED FOR THIS REASON. THE CONTRACTOR AND CITY ENGINEER WILL MEET ON SITE TO DISCUSS THE STORM INSTALLATION METHOD TO MAKE A FINAL DETERMINATION ON THE LIMITS OF THE EXISTING PAVEMENT, CURB, AND SIDEWADWALK REMOVAL AND REPLACEMENT.

SEE SHEET 8 FOR CONTROL POINT INFORMATION

S. ELMWOOD AVE.

FEDERAL BUILDING

SHOE SHOP

EX. CONCRETE PARKING LOT

EX. CONCRETE PARKING LOT

SEE SHEET 8 FOR CONTINUATION

SULLY'S IRISH PUB

EX. CONC. WALK

EX. 12" STORM SEWER

INSTALL 62' – 8" SILT SOCK SOCK BETWEEN CURBS

PUBLIC PARKING AREA LIMITS TO REMAIN OPEN DURING CONSTRUCTION

30'

EX. 12" STORM SEWER

REMOVE EX. TREE (TYP.)

CONTRACTOR TO EXPOSE EX. 6" HYDRANT LINE PROP. CATCH BASIN TO BE ADJUSTED EAST–WEST AS NECESSARY TO FIT THE EX. 6" HYD. LINE

REMOVE & REPLACE 60 SF CONCRETE CURB RAMP

EX. 12" STORM SEWER @ 1.9%

REPLACE 41 S.Y. OF 8" THICK FIBER REINF. CONCRETE DRIVE APRON (BY OTHERS)

CAP 12" STM. 12"FL= 1087.30

STORM SEWER TRENCH SAWCUT LIMITS

STORM SEWER TRENCH SAWCUT LIMITS

REMOVE & REPLACE 1,025 SF CONCRETE WALK (SEE NOTE, THIS SHT.)

SAWCUT SIDEWALK AT EX. JOINT

EX. OVERHEAD POWER LINES

EX. 15" STM. SEWER @ 10.5% TO REMAIN – CONNECT TO M.H. D–2

PLACE 22' – 8" SILT SOCK SOCK BETWEEN CURBS WHEN NOT USED AS CONST. ENTRANCE

INSTALL 20' – 12" HDPE STORM SEWER @ 1.00%

EX. 450' – 8" SAN. SEWER @ 2.5%

EX. CONC. CURB TO BE REMOVED & REPLACED

INSTALL 155' – 18" HDPE STM. SEWER @ 0.78%

REMOVE EX. 24" RCP STM. SEWER @ 3.0%

INSTALL 110' – 18" HDPE STM. SEWER @ 0.78%

REMOVE EX. 110' – 8" PVC / 12" VCP STM. SEWER

EX. POLE TO BE REMOVED BY OH. EDISON

EX. 6" C.I. WATER MAIN

EX. 6" C.I. WATER MAIN

STORM SEWER TRENCH SAWCUT LIMITS

PROP. PAVEMENT REPAIR LIMITS (SEE DETAIL 'F', SHT. No. 9)

STORM SEWER TRENCH SAWCUT LIMITS

EX. CONC. APRON & PARKING LOT DRIVE AREA TO BE USED AS CONST. ENTRANCE

REMOVE & REPLACE EX. 10 LF – 12" STORM SEWER @ 7.06%

49+50 49+00 48+50 N 89°56'03" E 48+00 47+50 47+00

EX. 27" STM. SEWER @ 1.61%

EX. 12" STORM SEWER (Abandon)

EX. 12" STM. SEWER TIES INTO 24" RCP STM. SEWER TO BE REMOVED

INSTALL 4' – 12" PVC SDR35 STORM SEWER @ 1.00% (SEE DETAIL 'C', SHT. No. 5)

BENCHMARK: ELEV.: 1089.27 EX. HYD. FLANGE BOLT BELOW SET SCREW

REMOVE & REPLACE 18 S.Y. OF 8" THICK FIBER REINF. CONCRETE DRIVE APRON (SEE DETAILS 'A' & 'B' SHT. No. 5 & NOTE ON THIS SHEET)

REMOVE EX. CURB AS REQUIRED & INSTALL BARRIER CURB (SEE DETAIL 'F', SHT. 9 & NOTE ON THIS SHT.

SAWCUT & REMOVE EX. CURB & INSTALL BARRIER CURB TO MATCH EX. CURB DROP (SEE DETAIL 'A', SHT. 5)

EX. 8" GAS MAIN EX. 4" GAS MAIN EX. 4" GAS MAIN EX. 4" GAS MAIN

WEST LIBERTY STREET 66' R/W

EXISTING STORM SEWER STRUCTURE SCHEDULE

(1) – STA. 49+80, 15' RT.
EX. MANHOLE TO REMAIN
EX. T/C= 1086.36
EX. 27"FL= 1073.06 (S,W)
EX. 18"FL= 1078.36 (E)
EX. 12"FL= 1079.62 (NW)

(2) – STA. 49+62, 18' RT.
EX. CURB INLET TO REMAIN
EX. T/C= 1086.20
EX. 12"FL= 1081.45 (S)
EX. 10"FL= 1083.45 (E)
EX. 8"FL= 1083.12 (NE)
EX. 8"FL= 1084.06 (N)
EX. 6"FL= 1082.55 (NW)

(3) – STA. 49+64, 15' LT.
EX. CURB INLET TO REMAIN
EX. T/C= 1085.76
EX. 12"FL= 1081.96 (W)
EX. 12"FL= 1082.36 (N)
EX. 4"FL= 1083.51 (E)

(4) – STA. 48+25, 13' RT.
REMOVE EX. STM. MANHOLE
EX. T/C= 1089.01
EX. 8"FL= 1084.64± (E)
EX. 15"FL= 1083.51 (NW)
EX. 24"FL= 1083.01 (W)

(5) – STA. 47+04, 18' RT.
REMOVE EX. CATCH BASIN
EX. T/C= 1091.19
EX. 8"FL= 1086.99 (W)
EX. 8"FL= 1087.17 (E)
EX. 4"FL= 1088.40 (N,E)
EX. 4"FL= 1089.92 (NE)

(6) – STA. 48+10, 40' RT.
EX. CATCH BASIN TO REMAIN
EX. T/C= 1089.63
EX. 12"FL= 1086.83 (N,E)
EX. 15"FL= 1086.73 (SW)

(7) – STA. 47+66, 44' RT.
EX. CATCH BASIN TO REMAIN
EX. T/C= 1090.65
EX. 12"FL= 1087.65 (W)

(8) – STA. 49+84, 25' RT.
EX. CATCH BASIN TO REMAIN
EX. T/C= 1086.41
EX. 8"FL= 1080.01 (SE)
EX. 8"FL= 1080.11 (NW)

(9) – STA. 50+10, 20' LT.
EX. STM. MANHOLE TO REMAIN
EX. T/C= 1085.30
EX. 18"FL= 1078.72 (NE)
EX. 15"FL= 1077.76 (S,W)
EX. 12"FL= 1080.30 (E,N)

EX. SANITARY SEWER STRUCTURE SCHEDULE

(A) – STA. 50+00, 21' RT.
EX. SAN. MANHOLE TO REMAIN
EX. T/C= 1086.41
EX. 8"FL= 1077.81 (E,W)
EX. 8"FL= 1077.71 (S)

(B) – STA. 45+50, 23' RT.
EX. SAN. MANHOLE TO REMAIN
EX. T/C= 1094.42
EX. Top Elbow= 1089.72 (W)
EX. 8"FL= 1089.05 (Assumed)
EX. Bot. MH.= 1086.72

PROPOSED STORM SEWER STRUCTURE SCHEDULE

(D-1) – STA. 49+80, 15' RT.
EX. MANHOLE TO REMAIN
EX. T/C= 1086.36
EX. 27"FL= 1073.06 (S,W)
EX. 24"FL= 1078.36 (E)
EX. 12"FL= 1079.62 (NW)
PROP. 18"FL= 1078.36 (E)
(Use Ex. Core Hole)

(D-9) – STA. 45+50, 23' RT.
INSTALL 2–2–B CATCH BASIN
T/C= 1091.19
PROP. 12"FL= 1086.99 (W)
EX. 8"FL= 1087.17 (E)
EX. 4"FL= 1088.40 (N,E)
EX. 4"FL= 1089.92 (NE)

(D-2) – STA. 48+25, 14.3' RT.
INSTALL 48" STORM MANHOLE
T/C= 1089.00
18"FL= 1079.56 (W)
18"FL= 1079.64 (E)
15"FL= 1083.51 (NE)

(D-3) – STA. 47+14, 17' RT.
INSTALL 48" STORM MANHOLE
T/C= 1091.10
18"FL= 1080.50 (W)
15"FL= 1081.10 (NE)
12"FL= 1087.10 (NW)
12"FL= 1086.25 (E)

(D-4) – STA. 49+62, 18' LT.
INSTALL CURB INLET BASIN
(SEE DETAIL 'C', SHT. No. 5)
T/C= 1086.20
PROP. 12"FL= 1081.45 (S)
EX. 10"FL= 1083.45 (E)
EX. 8"FL= 1083.12 (NE)
EX. 8"FL= 1084.06 (N)
EX. 6"FL= 1082.55 (NW)

CITY OF MEDINA

Project: CITY HALL PARKING STRUCTURE STORM SEWER OUTLET

Title: PLAN - STORM SEWER REPLACEMENT W. LIBERTY ST. STA. 46+75 TO 50+00

Scales: PLAN - 1" = 10'

Date: SEPTEMBER, 2020

Sheet Number: 7 of 20

CITY JOB No. 1073

Dwg. File #: 1073\1 dwg \1073_Liberty Storm Sewer.dwg

EXISTING PARKING DECK

EX. 1" WATER SERVICE

REMOVE EX. 36" HDPE CROCK AND EXTEND 12" SCH. 40 PVC 4' TO PROP. MANHOLE

EXISTING FOOTER BOT. FTR.= 1090.84

D-7 STA. 45+47 INSTALL 48" MANHOLE W/ VORTEX SEPARATOR (SEE DETAIL, SHT. 17 OF 20) T/C= 1093.80 15"FL= 1085.07 (W) 15"FL= 1085.07 (E) 12"FL= 1085.07 (S) Bot. Sump= 1077.99

EX. FOOTER

EX RAMP TO REMAIN

EX. CONC. PAVEMENT TO REMAIN

INSTALL 25' – 15" HDPE STM. SEWER @ 0.60%

EX. UNDERGROUND ELEC. SERVICE LINE

D-6 STA. 45+71 INSTALL 48" MANHOLE T/C= 1094.50 15"FL= 1084.92 (W) 15"FL= 1082.36 (S)

EX. GRAVEL AREA

6'-10"

15"FL= 1082.28

EX. 8' – 12" PVC STM. SEWER

SAWCUT & REMOVE 462 SY (total) OF EX. CONC. PARKING LOT PAVEMENT

PROP. 116' – 15" STORM SEWER @ 0.60%

PROP. 2' – 12" HDPE STUB W/ CAP W/ CAP

PROP. 2' – 12" HDPE STUB W/ CAP W/ CAP

SAWCUT LIMITS

D-8 STA. 44+31 INSTALL 48" STORM MANHOLE T/C= 1094.25 12"FL= 1085.85 (N) 12"FL= 1086.02 (S) 15"FL= 1085.77 (E)

15' WIDE STORM SEWER & DRAINAGE EASEMENT

INSTALL 4' – 15" HDPE STM. SEWER @ 2.00%

EX. CONCRETE PARKING LOT

SAWCUT & REMOVE 462 SY (Total) OF EX. CONC. PAVEMENT

STONE ENVELOPE LIMITS (SEE SECTION A-A, SHT. 10)

REMOVE 224 S.F. – 4' WIDE SIDEWALK

INSTALL INLET PROTECTION (SILT SACK) WITHIN ALL CATCH BASINS WITHIN THE PARKING LOT IN THE CONSTRUCTION ZONE

EX. 12" STORM SEWER

TEST BORE 'B8' SEE DETAIL 'D', SHT. No. 5 FOR TEST BORE LOG

INSTALL 62' – 8" SILT SOCK SOCK BETWEEN CURBS

CLEAR & STUMP EX. TREE (TYP.)

19.02'

32.25'

117'-6"

SAWCUT LIMITS

STORMTECH DC-780 CHAMBER OR APPROVED EQUAL (14 UNITS – 1 ISOLATOR ROW) TOP CHAMBER = 1084.67 BOT. CHAMBER= 1082.17 TOP STONE ENV.= 1085.42 BOT. STONE ENV.= 1081.42 1,445 CF OF STORAGE PROVIDED STONE ENV. ABOVE 1084.92 NOT USED FOR STORAGE AS THIS WILL BACK FLOW INTO PRE-TREATMENT STRUCTURE 9" STONE BASE UNDER CHAMBERS (SEE SHTS. 11 – 16 FOR FURTHER DETAILS)

6" PERF. UNDERDRAIN

PUBLIC PARKING AREA LIMITS TO REMAIN OPEN DURING CONSTRUCTION

30'

UNDERGROUND STORAGE CHAMBER TRENCH EXCAVATON LIMITS (SEE SECTION A-A, SHT. 10)

EX. 12" STORM SEWER

EX. CONCRETE PARKING LOT

A

A

REMOVE 220 S.F. – 4' WIDE SIDEWALK

INSTALL 2' – 24" HDPE STM. SEWER @ 4.00%

D-5 STA. 46+80 INSTALL 72" MANHOLE (SEE DETAIL 'E', SHT. No. 5) T/C= 1092.50 TOP WEIR WALL= 1084.92 Weir Wall Orifice 0.6" = 1081.86 (S) PROP. 15"FL= 1081.29 (S) PROP. 24"FL= 1081.94 (N) PROP. 6"FL= 1081.34 (NE) Bot. Sump= 1080.29

24"FL= 1082.02

18.0'

EX. CURB

FEDERAL BUILDING

SHOE SHOP

SULLY'S IRISH PUB

EX. 12" STORM SEWER @ 1.9%

REPLACE 41 S.Y. OF 8" THICK FIBER REINF. CONCRETE DRIVE APRON (BY OTHERS)

CAP 12" STM. 12"FL= 1087.30

INSTALL 17' – 12" HDPE STM. SEWER @ 1.00%

EX. 4" W.S.

EX. 2" W.S.

R/W

EX. 4" SAN.

EX. 3/4" W.S.

EX. 4" SAN.

EX. 15" STM. SEWER @ 10.5% (TO REMAIN)

PLACE 22' – 8" SILT SOCK SOCK BETWEEN CURBS WHEN NOT USED AS CONST. ENTRANCE

STORM SEWER TRENCH SAWCUT LIMITS

INSTALL 32' – 15" HDPE STM. SEWER @ 0.60%

EX. OVERHEAD POWER LINES

EX. 450' – 8" SAN. SEWER @ 2.5%

EX. CONC. CURB TO BE REMOVED & REPLACED

REMOVE EX. 24" RCP STM. SEWER @ 3.0%

INSTALL 110' – 18" HDPE STM. SEWER @ 0.78%

REMOVE EX. 110' – 8" PVC / 12" VCP STM. SEWER

INSTALL 155' – 18" HDPE STM. SEWER @ 0.78%

EX. 6" C.I. WATER MAIN

EX. 6" C.I. WATER MAIN

REMOVE EX. 8" STM. SEWER

EX. CONC. APRON & PARKING LOT DRIVE AREA TO BE USED AS CONST. ENTRANCE

D-3 STA. 47+14, 17' RT. INSTALL 48" STORM MANHOLE T/C= 1091.10 18"FL= 1080.50 (W) 15"FL= 1081.10 (NE) 12"FL= 1087.10 (NW) 12"FL= 1086.25 (E)

49+00 48+50 48+00 47+50 47+00

SEE SHEET 7 FOR W. LIBERTY STORM SEWER INSTALLATION

CONTROL POINT SCHEDULE

① – STA. 50+00, @ C/L (WLS)
N: 5000.00
E: 2500.00
C/L INTERSECTION N. ELMWOOD AVE. & W. LIBERTY STREET

② – STA. 48+67.09, 33.00' RT. (WLS)
N: 5033.15
E: 2632.87
MAG. NAIL FOUND

③ – STA. 47+26.90, 33.00' RT. (WLS)
N: 5033.31
E: 2773.07
MAG. NAIL FOUND

④ – STA. 46+91.99, 32.93' RT. (WLS)
N: 5033.28
E: 2807.97
MAG. NAIL FOUND

⑤ – STA. 46+17.84, 17.50' RT. (CSS)
N: 5113.31
E: 2771.89
MAG. NAIL FOUND

⑥ – STA. 46+15.79, 157.71' RT.
N: 5113.30
E: 2631.66
5/8" I.P. FOUND

⑦ – N: 5193.36
E: 2813.71
MAG. NAIL FOUND

⑧ – STA. 47+29.85, @ C/L (C/L STORM DETENTION)
– STA. 47+16.29, @ C/L (C/L W. LIBERTY ST.)
N: 5000.33
E: 2783.71
C/L INTERSECTION W. LIBERTY ST. & C/L STORM SEWER

PLAN REVISIONS 1/19/21

1. THE TRENCH LIMITS FOR THE UNDERGROUND STORM CHAMBER WAS EXPANDED FROM 23'–6" WIDE TO 26'–6" WIDE.
2. THE UNDERGROUND STORM WATER CHAMBER WAS SHIFTED 1.5' WEST.

CITY OF MEDINA

Project: CITY HALL PARKING STRUCTURE STORM SEWER OUTLET

Title: SITE PLAN - STORM SEWER OUTLET STA. 44+31 TO 47+14

Scales: PLAN - 1" = 10'

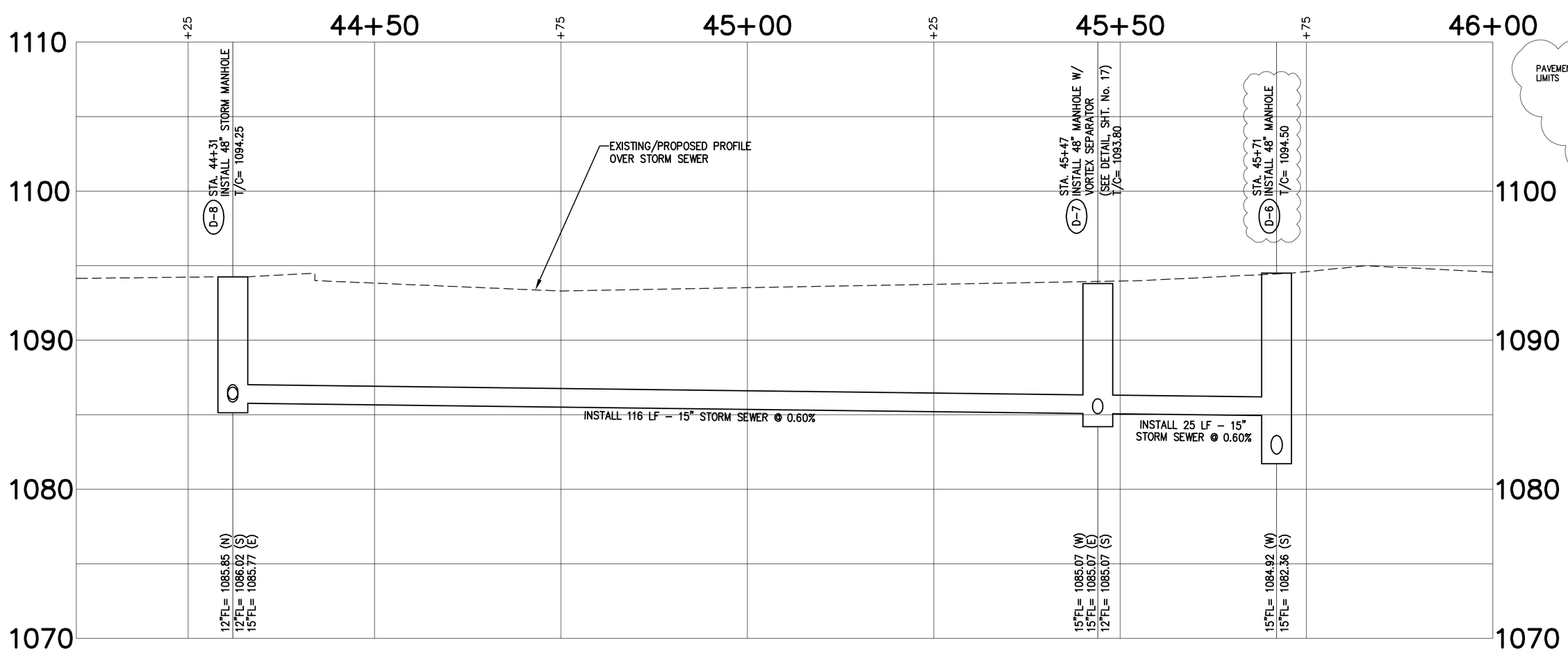
Date: SEPTEMBER, 2020

Rev.: Trench Section 1-19-21

Sheet Number: 8 of 20

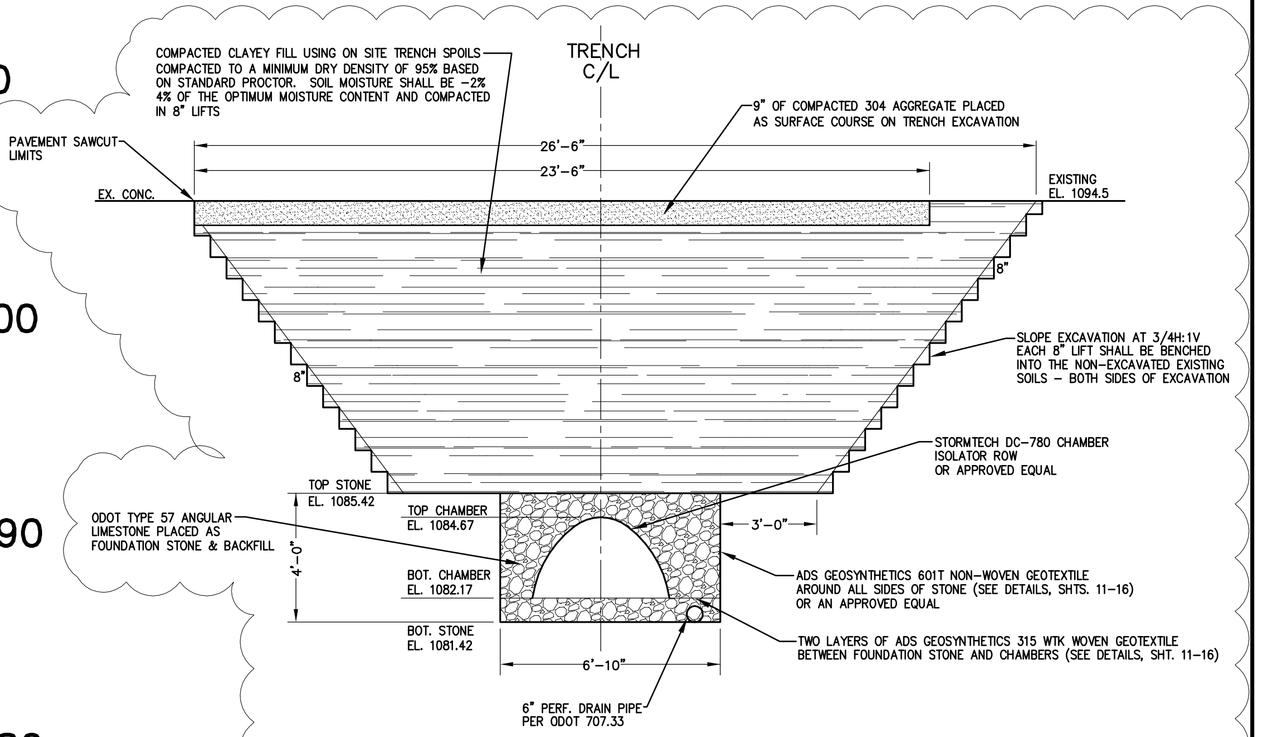
CITY JOB No. 1073

Dwg. File #: 1073\ dwg \ 1073_Liberty Storm Sewer.dwg



PROPOSED STORM SEWER PROFILE 'A'

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 5"

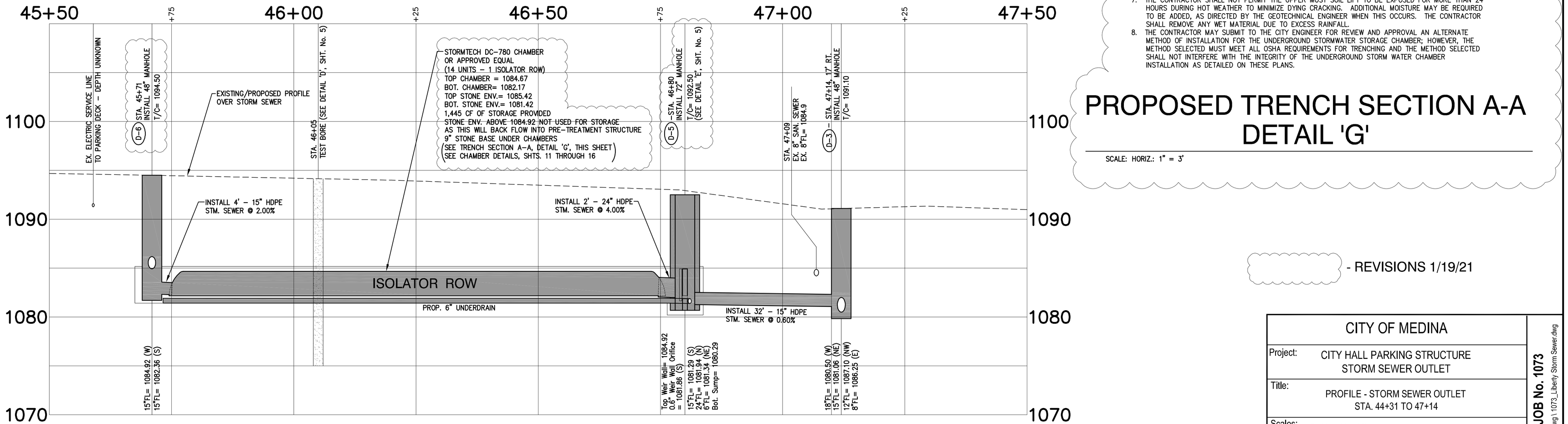


NOTES:

1. THE CITY OF MEDINA WILL PROVIDE AND BEAR THE COSTS FOR ALL TESTING FOR THE PROPOSED COMPACTED CLAYEY FILL. AN OUTSIDE GEOTECHNICAL ENGINEER WILL BE HIRED BY THE CITY TO CONDUCT ANY ALL NECESSARY TESTING AS DESCRIBED BELOW.
2. THE CONTRACTOR MAY SUBMIT FOR REVIEW AND APPROVAL A SIMILAR ALTERNATE PRODUCT FOR THE SPECIFIED STORMTECH DC-780 CHAMBER. ANY ALTERNATE PRODUCT SUBMITTED MUST BE OF THE SAME OR SIMILAR CHARACTERISTICS OF THE ADS STORMTECH DC-780 CHAMBER AND MUST PROVIDE THE REQUIRED VOLUME OF STORAGE AS INDICATED ON THESE PLANS.
3. SEE SHEETS 11 THROUGH 16 FOR ADDITIONAL DETAILS AND NOTES REGARDING THE INSTALLATION OF THE PROPOSED STORMTECH UNDERGROUND DETENTION CHAMBER.
4. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE SUBMITTALS FOR THE PROPOSED 57 LIMESTONE TO BE USED SHOWING THAT IT MEETS ALL ODOT REQUIREMENTS FOR A 57 LIMESTONE.
5. THE CONTRACTOR WILL BE REQUIRED TO STOCKPILE CLEAN WELL-GRADED MATERIAL FROM THE EXCAVATION TO INSTALL THE PROPOSED STORMTECH CHAMBER TO BE USED AS EMBANKMENT. THIS MATERIAL SHALL BE STOCKPILED AT THE DESIGNATED LOCATION AS SHOWN ON THE PLANS. THE STOCKPILED MATERIAL SHALL BE FREE OF DELETERIOUS MATERIAL AND SHALL BE PROTECTED BY THE CONTRACTOR FROM BECOMING CONTAMINATED OR SATURTATED.
6. FOR REUSE OF ONSITE CLAYEY SOILS, THE MATERIAL SHALL BE CLASSIFIED AS ML-CL, CL, SC, OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. FILL SHALL BE PLACED IN 8 INCH LOOSE LIFTS AND SHALL BE COMPACTED WITH A SHEEPSFOOT ROLLER TO 95% OF THE MINIMUM DRY DENSITY BASED ON THE STANDARD PROCTOR THAT IS OBTAINED. SOIL MOISTURE SHALL BE –2.0% TO 4.0% OF THE OPTIMUM MOISTURE CONTENT. AT LEAST ONE TEST PER EVERY OTHER LIFT WILL BE CONDUCTED.
7. THE CONTRACTOR SHALL NOT PERMIT THE UPPER MOST SOIL LIFT TO BE EXPOSED FOR MORE THAN 24 HOURS DURING HOT WEATHER TO MINIMIZE DYING CRACKING. ADDITIONAL MOISTURE MAY BE REQUIRED TO BE ADDED, AS DIRECTED BY THE GEOTECHNICAL ENGINEER WHEN THIS OCCURS. THE CONTRACTOR SHALL REMOVE ANY WET MATERIAL DUE TO EXCESS RAINFALL.
8. THE CONTRACTOR MAY SUBMIT TO THE CITY ENGINEER FOR REVIEW AND APPROVAL AN ALTERNATE METHOD OF INSTALLATION FOR THE UNDERGROUND STORMWATER STORAGE CHAMBER; HOWEVER, THE METHOD SELECTED MUST MEET ALL OSHA REQUIREMENTS FOR TRENCHING AND THE METHOD SELECTED SHALL NOT INTERFERE WITH THE INTEGRITY OF THE UNDERGROUND STORM WATER CHAMBER INSTALLATION AS DETAILED ON THESE PLANS.

PROPOSED TRENCH SECTION A-A DETAIL 'G'

SCALE: HORIZ.: 1" = 3'



PROPOSED STORM SEWER PROFILE 'B'

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 5"

- REVISIONS 1/19/21

CITY OF MEDINA	
Project: CITY HALL PARKING STRUCTURE STORM SEWER OUTLET	
Title: PROFILE - STORM SEWER OUTLET STA. 44+31 TO 47+14	
Scales: PLAN - 1" = 10'	
Date: SEPTEMBER, 2020 Rev.: Trench Section 1-19-21	Sheet Number: 10 of 20

CITY JOB No. 1073

Dwg. File #: 1073\dwg\1073_Liberty Storm Sewer.dwg