# TWIN CITY WATER AND SEWER DISTRICT EAST 1<sup>ST</sup> ST., UHRICHSVILLE, OHIO TUSCARAWAS COUNTY, OHIO PROPOSED WATER MAIN AND PAVEMENT RESURFACING

# ADDENDUM # 1

# JANUARY 20, 2021 Thrasher Project #101-010-10014

# TO WHOM IT MAY CONCERN:

The following are revisions, clarifications and alternates.

# **CLARIFICATIONS:**

# 1. <u>THE BID FORM HAS BEEN REVISED. YOU MUST USE THE REVISED BID</u> <u>FORM WHEN PREPARING YOUR BID PACKAGE FOR THIS PROJECT.</u>

- 2. BID Form
  - Added Polypropylene storm pipe as an alternative to RCP for all 42", all 30" and 18" from CB-3 to MH-3
  - Changed quantity of Tack Coat from 560 Gal to 983 Gal
  - Removed the line item for Storm Sewer Manhole, Type 3, 72"
  - Changed quantity of Storm Sewer Manhole, Type 3, 96" from 2 to 3 EA
  - Changed Item "Catch Basin with Manhole, 60" Base Columbus AA-121 w/AA-S42 Grate" to "48" Storm Sewer Inlet/Manhole Type AA-121"
- 3. 012000- Price and Procedure Technical Specification
  - Added Section G: Unit Price Alternates
- 4. 334113- Public Storm Utility Drainage Piping
  - Added Section 2.1.B: Allowing Polypropylene pipe
- 5. Plan Sheet 1: Cover
  - Added Twin City Water and Sewer District address
- 6. Plan Sheet 5: Quantities
  - Revised Structure Table
  - Changed Tack Coat quantity from 560 Gal to 983 Gal
  - Changed Sanitary Manhole, Type 3 from 4 Each to 1 Each
  - Changed Sanitary Manhole, Type 3 with drop from 1 Each to 4 Each
  - Changed Sanitary Manhole Removed from 2 to 3 Each

- Changed 8" PVC SDR-35 from 550 LF to 238 LF
- 7. Plan Sheet 15: Storm Sewer Profiles
  - Added storm sewer text
- 8. Plan Sheet 16: Sanitary Sewer Profiles
  - Removed the text "Remove and Replace" from sanitary manholes A,B,C and E
  - Revised existing sanitary text
- 9. Plan Sheet 19: Standard Details
  - Changed waterline trench detail with crushed stone cover to sand
- 10. Plan Sheet 20: Standard Details
  - Changed Utility Trench Detail label to read Storm/Sanitary Utility Detail
- 11. Plan Sheet 22: Standard Details
  - Added Sanitary Manhole Drop Structure detail
- 12. Plan Sheet 24: Standard Details
  - Added Catch Basin/Manhole #4 Detail
  - Changed the max outlet diameter for MH#4 Detail from 24" to 30"

# **QUESTIONS AND RESPONSES:**

# QUESTION

1. Do we need engineered pumping plans?

# RESPONSE

No.

2. What are the flow rates of the different sanitary pipes?

# RESPONSE

Unknown

3. The san schedule has 4 ea manholes and 1 ea drop manhole (sht 5), then on the san profiles (sht 16) basically all the manholes are detailed as drop manholes. Are they all to be drop manholes?

# RESPONSE

There will be 4 drop MHs and 1 conventional MH. San schedule has been adjusted.

4. What is detail of the drop manholes, will they be interior or exterior style drops?

# RESPONSE

See revised sheet 22.

5. On stm manhole 1 with the dual 36" lines, will this fit into a 96" manhole with the separation? Possible for a square structure be used in this location to get the pipes to fit into the structure as not to remove so much of the structure?

# RESPONSE

The dual 36" lines are VCP and are butt against each other. In a future project, Twin City wishes to replace these lines with one pipe. The contractor shall connect these lines to the proposed 96" manhole as directed in the field.

6. Is catch basin #3 to be the ODOT #3?

# RESPONSE

Yes

7. Catch #4, can this be modified to be a 48" dia with a 30" pipe leaving the structure at an angle?

# RESPONSE

See Revised Sheet 24. A 48" I.D. (60" O.D.) manhole shall be used according to City of Columbus Standard Drawing AA-S121 Curb Inlet Manhole. The detail has been modified for this project to allow a 30" pipe outlet.

8. Manhole number three will need to be larger than 72" dia as the pipe holes for the 42" rcp pipe will overlap by 5-6" as the pipe is at 90 degrees.

# RESPONSE

MH#3 has been upsized to 96" I.D. for more conservative construction tolerances.

9. Can sand be used in place of gravel for bedding material for waterline, sanitary and storm water piping? Per drawing waterline trench detail on page 19 and utility trench detail page 20.

# RESPONSE

See revised sheet 19.

10. Is the Type 6 curb line item to be used for service line replacement and hydrant replacement? Can it be used for curb replacement for main line installation?

# RESPONSE

This line item is separate from curb work related to service line.

ADDENDUM #1 January 22, 2021 Page 4 of 4

11. Will Type 4-C curb line be used to replace curb at location storm manhole #2 to CB4? It will be removed when this 30 in storm is installed?

## RESPONSE

Curb removed for 30" storm line construction from MH#2 to CB#4 shall be replaced using the appropriate ODOT curb type, as shown on Sheet 25.

12. Is the line item for sidewalk repair include the private service line item if concrete needs to be replaced on private side or do you have to include sidewalk repair in the private service line item?

## RESPONSE

The line item for sidewalk does not pertain to LSL replacement.

13. On the plans do the NON-LSL mean on the city side between main and shutoff? Could you clarify more?

## RESPONSE

Yes, all services are to be replaced to the shutoff.

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 1:30 p.m. on Wednesday, January 27, 2021 at 125 E High Ave, New Philadelphia, OH, 44663. Good luck to everyone and thank you for your interest in the project.

Sincerely, THE THRASHER GROUP, INC.

Project Manager



# **ARTICLE 5 – BASIS OF BID**

# REVISED: Addendum #1 January 22, 2021 Page 1 of 7

# **GENERAL**

The Bidder shall take notice of and shall be responsible for any local or state taxes levied and applicable, and the cost for the same shall be included as part of the submitted Bid.

The total Bid cost stated includes a complete operating installation including furnishing and installation of any and all changes or additions in plans, piping, mechanical work, additional electrical work, accessories, controls, etc. necessary to accommodate alternative equipment systems or materials used in construction.

# **BID PROPOSAL**

The Bidder agrees to perform all required Work described in the detailed Specifications and as shown on the Plans for the complete construction and placing in satisfactory operation the CONTRACT #PY – 2019 CDBG #B-X-19-1CT-1. The Project "Sequence of Construction" has been detailed in the Drawings and Specification Division 1, Project Summary, Section 1010, Part-2 Execution. The Bidder agrees to perform all the Work proposed for the total of the following Bid prices.

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

# PROPOSED CONTRACT #PY – 2019 CDBG #B-X-19-1CT-1 FOR THE

# TUSCARAWAS COUNTY COMMISSIONERS TUSCARAWAS COUNTY, OHIO

# **BID SCHEDULE**

Item #	ODOT	Qty.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	254	3247	SY	1 <sup>1</sup> / <sub>2</sub> " Pavement Planing, 6' off curb		
2	407	983	GAL	Tack Coat		
3	441	517	CY	1 <sup>1</sup> / <sub>2</sub> " Asphalt Surface Course, Type 1		
4	452	1128	SY	9" Non-Reinforced Concrete Base		
5	608	1800	SF	Sidewalk Repair		
6	614	1	LS	Maintenance of Traffic		
7	623	1	LS	Construction Layout		
8	624	1	LS	Mobilization		

# East 1st Street Roadway Improvements

# REVISED: Addendum #1 January 22, 2021 Page 2 of 7

Item #	ODOT	Qty.	UNIT	DESCRIPTION	PRICE	TOTAL PRICE
9	659	1	LS	Seeding and Mulching		
10	832	1	LS	Temp Sediment and Erosion Control		
11	SPEC	1	LS	Videotaping of Project Area		

# ROADWAY TOTAL \_\_\_\_\_

# East 1<sup>st</sup> Street Waterline Improvements

Item #	ODOT	Qty.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
12	638	2543	LF	12" DR11, HDPE D.I.P.S. Water Main		
13	638	343	LF	6" DR11, HDPE D.I.P.S. Water Main		
14	638	1	EA	12" x 12" Tee, Valve & Valve Box		
15	638	8	EA	12" Gate Valve		
16	638	6	EA	6" Gate Valve		
17	638	4	EA	6" Fire Hydrant Assembly		
18	638	4	EA	Fire Hydrant Removed		
19	638	65	EA	<sup>3</sup> / <sub>4</sub> " Copper Service Lateral (Public Lead Service Replacement)		
20	638	65	EA	<sup>3</sup> / <sub>4</sub> " Copper Service Lateral (Private Lead Service Replacement)		
21	638	2	EA	1" Copper Service Lateral (Lead Service Replacement)		

WATERLINE TOTAL \_\_\_\_\_

# REVISED: Addendum #1 January 22, 2021 Page 3 of 7

Item #	ODOT	Qty.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
22	202	3	EA	Sanitary Manhole Removed		
23	611	1	EA	Sanitary Manhole, Type 3		
24	611	4	EA	Sanitary Manhole, Type 3 w/ Drop		
25	611	238	LF	8" PVC SDR-35 Sanitary Main		
26	SPEC	5	EA	Sanitary Tie-in		

# East 1<sup>st</sup> Street Sanitary Improvements

# SANITARY TOTAL

East 1 <sup>st</sup> Street Storm Improvement
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Item #	ODOT	Qty.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
27	202	4	EA	Catch Basin Removed		
28	202	1	EA	Storm Manhole Removed		
29	609	115	LF	Curb Repair, Type 4C		
30	609	60	LF	Curb Repair, Type 6		
31	611	3	EA	Storm Sewer Manhole, Type 3, 96"		
32	611	1	EA	48" Storm Sewer Inlet/Manhole Type AA-121		
33	611	1	EA	Catch Basin, Type 3		
34	611	2	EA	Catch Basin, Type 3A		
35	611	115	LF	4" Curb Underdrain		
36	611	122	LF	42" RCP Storm Pipe		

# **REVISED: Addendum #1** January 22, 2021 Page 4 of 7

Item #	ODOT	Qty.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
37	611	30	LF	30" RCP Storm Pipe		
38	611	114	LF	18" RCP Storm Pipe		
39	SPEC	4	EA	Storm Tie-in		

# STORM TOTAL\_\_\_\_\_

# TOTAL BID ACTIVITY\_\_\_\_\_

# **STORM ALTERNATES**

Item #	ODOT	Qty.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	611	122	LF	42" Polypropylene Storm Pipe		
2	611	30	LF	30" Polypropylene Storm Pipe		
3	611	20	LF	18" Polypropylene Storm Pipe (CB-3 to MH-3)		

ALTERNATE STORM TOTAL \_\_\_\_\_

TOTAL ALTERNATE BID ACTIVITY \_\_\_\_\_

# **REVISED: Addendum #1** January 22, 2021 Page 5 of 7

East 1st St. Water Line Improvements 101-010-10014 & 101-025-10009

and shall be measured in the horizontal plane along the centerline of each pipe installed, measured from the face of manhole to face of manhole.

# 38. Bid Item 38 – 30" RCP Gravity Storm Pipe

- a. The Bid Item shall include all required labor, materials, equipment and all other costs associated with the complete installation of 30-inch RCP Gravity Storm Pipe including, but not limited to, excavation, bedding, backfill, materials, fittings, pipe joints, pipe, tools, supplies, testing, and incidentals.
- b. The storm pipe installed under this item shall be measured and paid for at the unit price Bid per linear foot of pipe of each type and size as specified on Drawings or as directed by Engineer, and installed complete in place. The measurement under this item shall be the length of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured from the face of manhole to face of manhole.
- 39. Bid Item 39 18" RCP Gravity Storm Pipe
  - a. The Bid Item shall include all required labor, materials, equipment and all other costs associated with the complete installation of 18-inch RCP Gravity Storm Pipe including, but not limited to, excavation, bedding, backfill, materials, fittings, pipe joints, pipe, tools, supplies, testing, and incidentals.
  - b. The storm pipe installed under this item shall be measured and paid for at the unit price Bid per linear foot of pipe of each type and size as specified on Drawings or as directed by Engineer, and installed complete in place. The measurement under this item shall be the length of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured from the face of manhole to face of manhole.
- 40. Bid Item 40– Tie-Into Existing Storm
  - a. This Bid Item shall include all costs associated with connecting to existing structures.
  - b. The Bid Item shall include, but not be limited to, costs such as labor and materials required, fittings and incidental pipe, to make the proper connection.

### G. Unit Price Alternates

- 1. Storm Alternate 1 42" Polypropylene Storm Pipe
  - a. The Bid Item shall include all required labor, materials, equipment and all other cost associated with the complete installation of 42" Polypropylene Gravity Storm Pipe including, but not limited to, excavation, bedding backfill, materials, fittings, pipe, joints, tools, supplies, testing, and incidentals.
  - b. The storm pipe installed under this item shall be measured and paid for at the unit price Bid per linear foot of pipe of each type and size as specified on Drawings or as directed by Engineer, and installed complete in place. The measurement under this item shall be the length of pipe and fittings as

# **REVISED: Addendum #1** January 22, 2021 Page 6 of 7

East 1st St. Water Line Improvements 101-010-10014 & 101-025-10009

installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured from the face of manhole to face of manhole.

- 2. Storm Alternate 2 30" Polypropylene Storm Pipe
  - a. The Bid Item shall include all required labor, materials, equipment and all other cost associated with the complete installation of 30" Polypropylene Gravity Storm Pipe including, but not limited to, excavation, bedding backfill, materials, fittings, pipe, joints, tools, supplies, testing, and incidentals.
  - b. The storm pipe installed under this item shall be measured and paid for at the unit price Bid per linear foot of pipe of each type and size as specified on Drawings or as directed by Engineer, and installed complete in place. The measurement under this item shall be the length of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured from the face of manhole to face of manhole.
- 3. Storm Alternate 3 18" Polypropylene Storm Pipe (CB-3 to MH-3)
  - a. The Bid Item shall include all required labor, materials, equipment and all other cost associated with the complete installation of 18" Polypropylene Gravity Storm Pipe including, but not limited to, excavation, bedding backfill, materials, fittings, pipe, joints, tools, supplies, testing, and incidentals.
  - b. The storm pipe installed under this item shall be measured and paid for at the unit price Bid per linear foot of pipe of each type and size as specified on Drawings or as directed by Engineer, and installed complete in place. The measurement under this item shall be the length of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured from the face of manhole to face of manhole.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION 012000

# **REVISED: Addendum #1** January 22, 2021 Page 7 of 7

East 1st St. Water Line Improvements 101-010-10014 & 101-025-10009

- **B.** Plastic Piping:
  - 1. Pipe:
    - a. Comply with ODOT 707.65.
    - b. Material: Corrugated Polypropylene.
    - c. Type: Smooth interior.
  - 2. Joints: Bell and Spigot.

# 2.2 CONCRETE ENCASEMENT AND CRADLES

- A. Concrete:
  - 1. Description: Reinforced concrete, as specified in Section 033000 Cast-in-Place Concrete.
  - 2. Compressive Strength: 3,000 psi at 28 days, reinforced concrete, air-entrained rough-troweled finish.
- B. Reinforcement: As specified in Section 032000 Concrete Reinforcing.

# 2.3 MATERIALS

- A. Bedding and Cover:
  - 1. Bedding: Pipe Bedding (Gravel) Conforming to the ODOT #57 aggregate., as specified in Section 310516 Aggregates for Earthwork.
  - 2. Cover: ODOT #57s, as specified in Section 310516 Aggregates for Earthwork.
  - 3. Soil Backfill from above Pipe to Finish Grade: ODOT 304, as specified in Section 310513 Soils for Earthwork.
- B. Subsoil: No rocks more than 6 inches in diameter, frozen earth, or foreign matter.

### 2.4 MIXES

- A. Grout: As specified in Section 036000 Grouting.
- B. Concrete Encasements and Cradles:
  - 1. Type I or II concrete, as specified in Section 033000 Cast-in-Place Concrete.

# PART 3 - EXECUTION

## 3.1 EXAMINATION

A. Section 017000 - Execution and Closeout Requirements: Requirements for installation examination.

### PUBLIC STORM UTILITY DRAINAGE PIPING

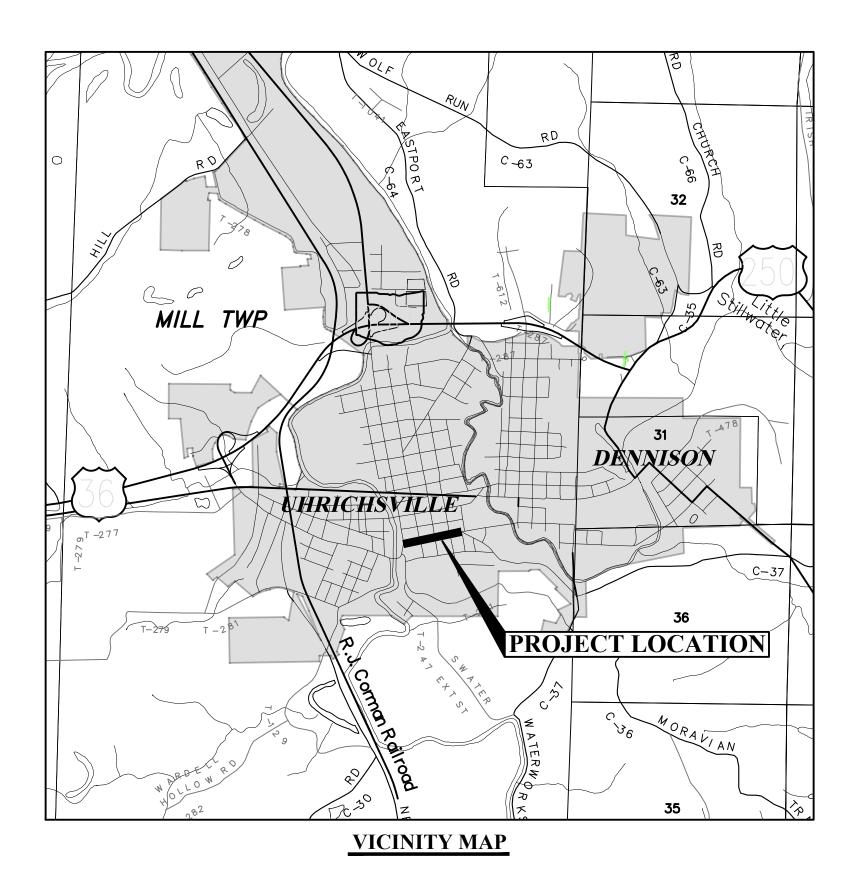
# TWIN CITY WATER AND SEWER DISTRICT EAST 1st STREET, UHRICHSVILLE, OHIO WATER MAIN AND PAVEMENT RESURFACING TUSCARAWAS COUNTY, OHIO DECEMBER 2020

# SHEET INDEX

TITLE SHEET	1
GENERAL NOTES	2-4
SUMMARY OF QUANTITIES	5
TYPICAL PAVEMENT SECTION	6
PAVING PLAN	7
WATERLINE PLAN AND PROFILE	8-14
STORM SEWERS PROFILES	15
SANITARY SEWERS PROFILES	16
WATERLINE TIE-IN DETAILS	17-18
STANDARD DETAILS	19-25



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SCOTT A. WANGLER, P.E. #65003

# **PROJECT DESCRIPT**ION:

REPLACEMENT OF 2543 L.F. OF 12" WATER MAIN IN CONJUNCTION WITH STORM AND SANITARY IMPROVEMENTS. AN OHIO EPA GRANT FOR THE TWIN CITY DISTRICT IS AVAILABLE TO REPLACE PRIVATE-SIDE LEAD SERVICE LINES, AT NO COST TO THE PROPERTY OWNERS. THE ROADWAY WITHIN THE CONSTRUCTION WORK LIMITS SHALL HAVE 1.5" ASPHALT PAVEMENT RESURFACING.

# **<u>2019 SPECIFICATIONS:</u>**

THE STANDARD SPECIFICATIONS FOR THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

# TWIN CITY WATER AND SEWER DISTRICT OFFICIALS

ELAINE AFFOLTER - CHAIRMAN WALTER S. HINES, IV - VICE CHAIRMAN NATHAN B. DAVIS - TREASURER ROBERT RECTANUS - SECRETARY DONNIE FAWCETT - SUPERINTENDENT ROB HENRY - ASSISTANT SUPERINTENDENT J.J. ONG - LEGAL COUNSEL ADDRESS:

308 GRANT STREET DENNISON, OH 44621 (740)922-1460

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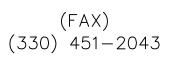
# <u>APPRO</u>VALS

ELAINE AFFOLTER, CHAIRMAN

DATE

PHONE (330) 451-2042





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CB#1       3A       851.55       846.32       REMOVE EXISTING         CB#2       3A       851.15       848.19       REMOVE EXISTING         CB#3       3       851.70       847.70       REMOVE EXISTING         CB#4       NA(48")       851.39       845.64       COLUMBUS MH/INLET DTL. AA-S121, REMOVE EXISTING         MH#01       3,(96")       851.05       844.11       REMOVE EXISTING         MH#02       3,(96")       851.69       845.45         MH#03       3,(96")       852.01       844.95         MH*03       3,(96")       851.53       845.35         MH*A'       3       851.53       845.35	STRUCTURE		RIM	INVERT	NOTES
CB#2       3A       851.15       848.19       REMOVE EXISTING         CB#3       3       851.70       847.70       REMOVE EXISTING         CB#4       NA(48")       851.39       845.64       COLUMBUS MH/INLET DTL. AA-S121, REMOVE EXISTING         MH#01       3,(96")       851.05       844.11       REMOVE EXISTING         MH#02       3,(96")       851.69       845.45         MH#03       3,(96")       852.01       844.95         MH*A'       3       851.53       845.35         MH*A'       3       851.53       845.35					STORM SEWER
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CB#4       NA(48")       851.39       845.64       COLUMBUS MH/INLET DTL. AA-S121, REMOVE EXISTING         MH#01       3,(96")       851.05       844.11       REMOVE EXISTING         MH#02       3,(96")       851.69       845.45         MH#03       3,(96")       852.01       844.95         MH*A'       3       851.53       845.35       WITH DROP STRUCTURE	CB#2	3A	851.15	848.19	REMOVE EXISTING
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					SANITARY SEWER
MU'R' 3 851 65 844 27 DEMOVE EVISTING WITH DOOD STRUCTURE	MH'A'	3	851.53	845.35	WITH DROP STRUCTURE
MIND J S JOSTOS J SAAAZY I KEMUVE ENISTING (WITH DROF STRUCTURE)	MH'B'	3	851.65	844.27	REMOVE EXISTING WITH DROP STRUCTURE
MH'C' 3 851.44 846.80 WITH DROP STRUCTURE	MH'C'	3	851.44	846.80	WITH DROP STRUCTURE
MH'D' 3 851.92 843.79 REMOVE EXISTING	MH'D'	3	851.92	843.79	REMOVE EXISTING
MH'E' 3 851.77 848.03 REMOVE EXISTING WITH DROP STRUCTURE	MH'E'	3	851.77	848.03	REMOVE EXISTING WITH DROP STRUCTURE



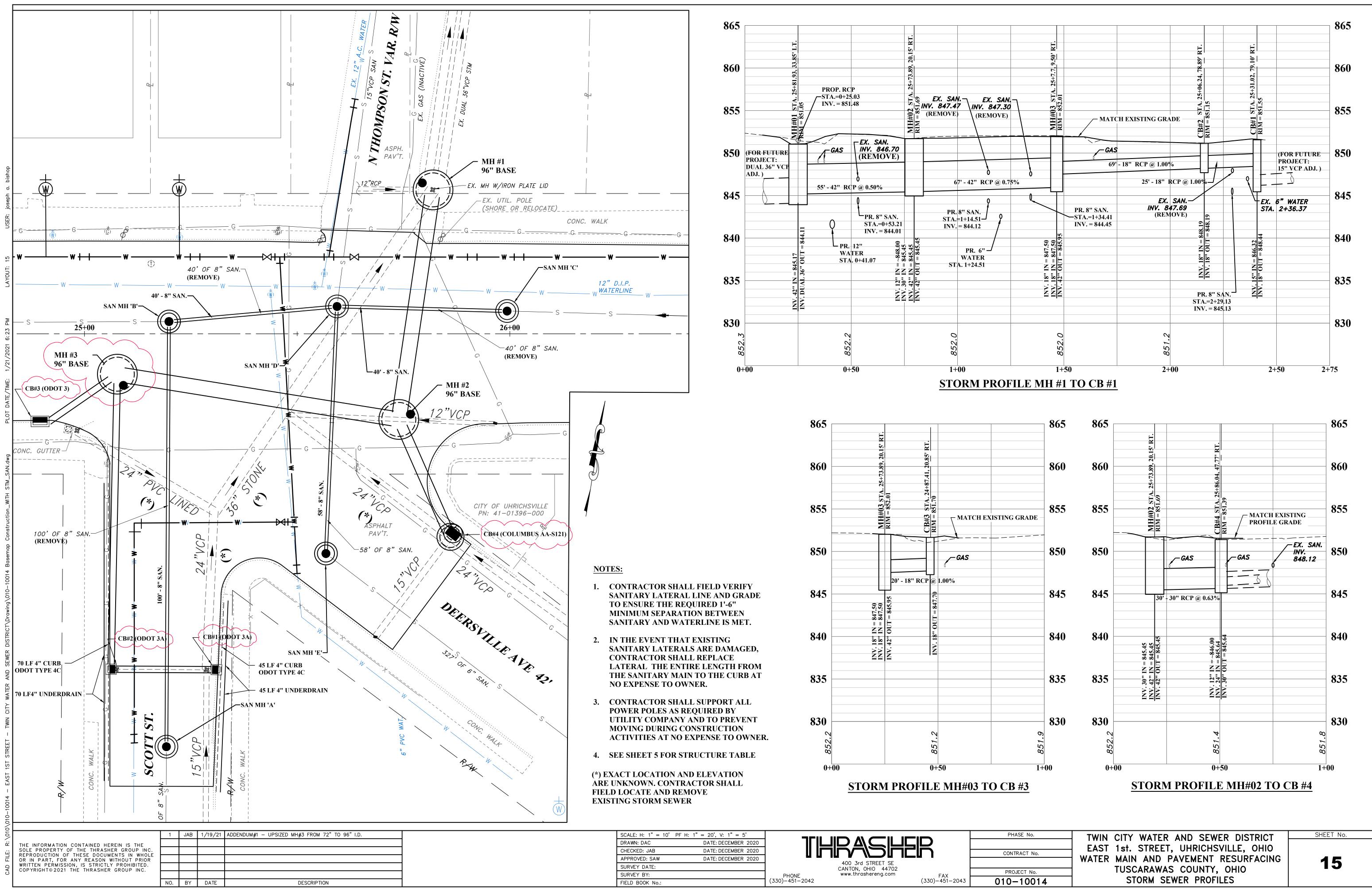
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6		1	JAB	1/19/21	ADDENDUM#1 QUANTITY CORRECTIONS TO MANHOLES/TACK COAT	
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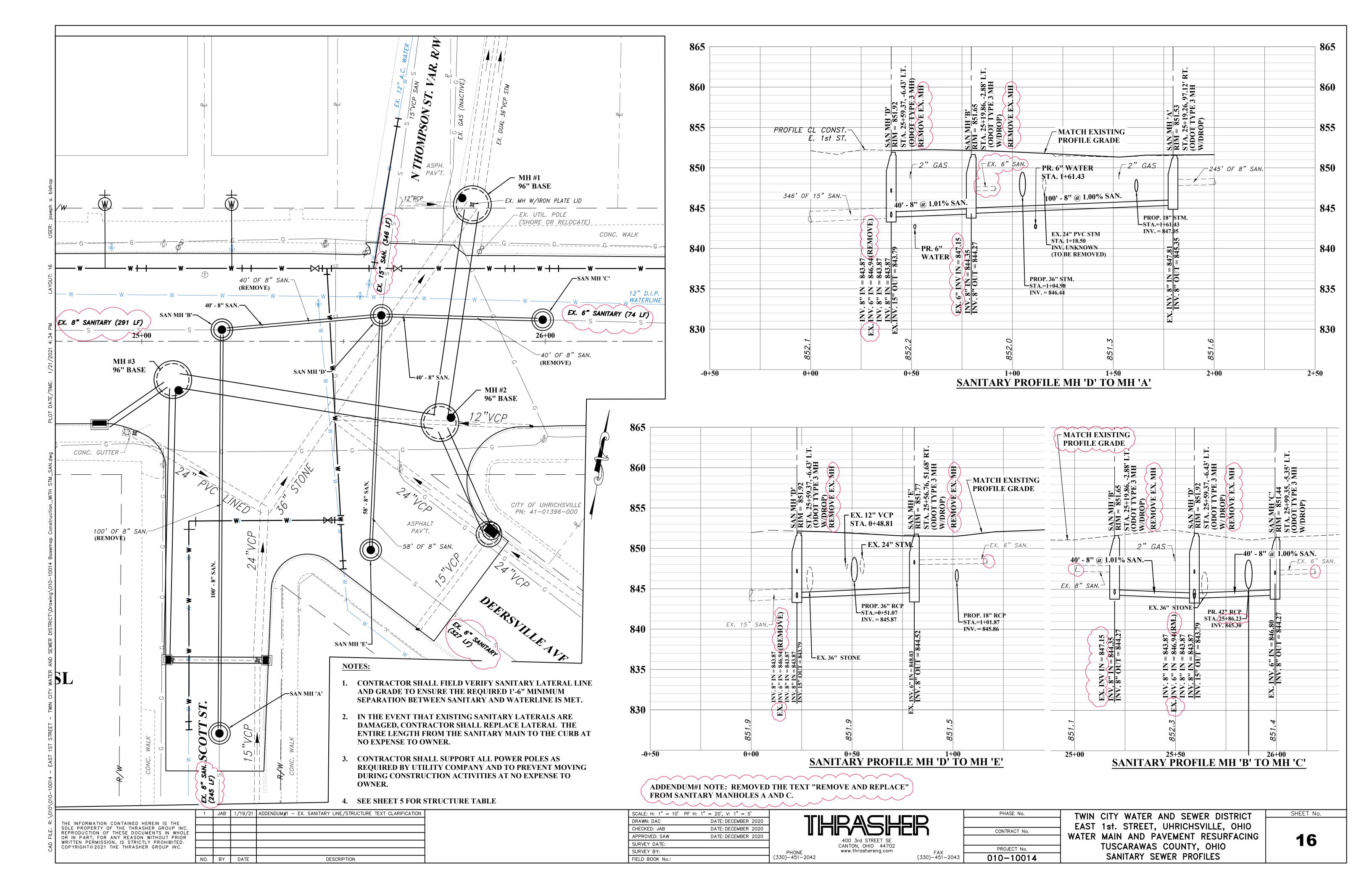
			SUMMARY OF
ITEM	GRAND TOTAL	UNIT	
 207	1		
 207 624	1	LUMP LUMP	TEMPORARY SEDIMENT AND EROSION
 614	1		MAINTAINING TRAFFIC
 623	1		CONSTRUCTION LAYOUT
 659	1	LUMP	SEEDING AND MULCHING
 638	2543	LF	12" DR11, HDPE WATER MAIN
 638	343	LF	6" DR11, HDPE WATER MAIN
 638	3	EA	12"x 12" TEE
 638	1	EA	6"×6" TEE
638 638	8	EA EA	12"x6" TEE
638	18	EA	12" GATE VALVE 12"-45° BEND
638	2	EA	12" SOLID SLEEVE COUPLING
638	1	EA	10" SOLID SLEEVE COUPLING
638	1	EA	12"x 10" REDUCER
638	6	EA	6" GATE VALVE
638	6	EA	6" SOLID SLEEVE COUPLING
638	1	EA	6" ELECTROFUSED COUPLING
638	10	EA	6"-45° BEND
638	4	EA	HYDRANT ASSEMBLY
638	4	EA	HYDRANT REMOVED
638	65	EA	3/4" COPPER SERVICE BRANCH
638	2	EA	1" COPPER SERVICE BRANCH
441	517	CY	1.5" ASPHALT CONCRETE SURFACE (
254	3247	SY	1.5" PAVEMENT PLANING, ASPHALT (
407	983	GAL	TACK COAT (0.08 Gal./SY)
611		EA	SANITARY MANHOLE, TYPE 3
611	<u>{</u> 4 }	EA	SANITARY MANHOLE, TYPE 3 WITH D
611	238	LF	8" PVC SDR 35
SPEC	5	EA	SANITARY TIE-IN
202	3	EA	SANITARY MANHOLE REMOVED
202	4	EA	CATCH BASIN REMOVED
202	1	EA	STORM MANHOLE REMOVED
609	60	LF	TYPE 6 CURB REPAIR
609	115	LF	TYPE 4C CURB
611	114	LF	18" RCP STORM PIPE
611	30	LF	30" RCP STORM PIPE
611	122	LF	42" RCP STORM PIPE
611	2	EA	CATCH BASIN TYPE 3A
611	1	EA	CATCH BASIN TYPE 3
611		EA	48" STORM SEWER INLET/MANHOLE
611 SPEC	3	EA EA	96" STORM SEWER MANHOLE STORM TIE-IN
	4	LA	

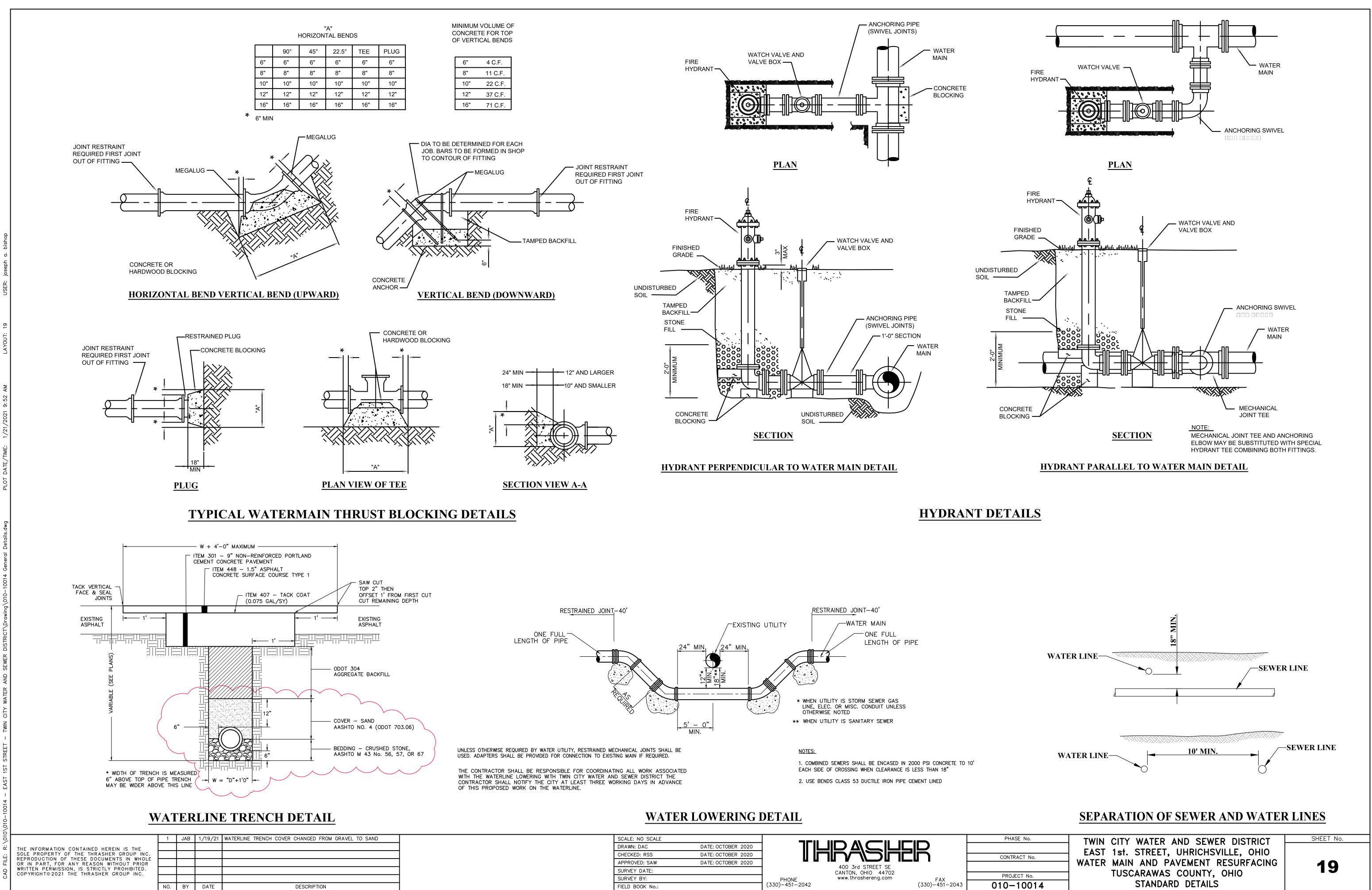
SCALE: H: 1" = 20' V: 1" = 5'       THIDACIID       PHASE No.         DRAWN: DAC       DATE: OCTOBER 2020       THIDACIID       PHASE No.	
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SURVEY BY: PHONE www.thrashereng.com FAX PROJECT No	
FIELD BOOK No.: (330)-451-2042 (330)-451-2043 010-100	14

QUANT	IIIES	
DES	CRIPTION	
MISCE	LLANEOUS	
N CONTROL	_	
WAT	ER LINE	
	<b>f pavement</b> TYPE 1 (448)	
CONCRETE	-	
SANITA	ARY SEWER	
DROP		
STOR	M SEWER	
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E TYPE AA-	-S121	
ASE No.	TWIN CITY WATER AND SEWER DISTRICT	SHEET No.
TRACT No.	EAST 1st. STREET, UHRICHSVILLE, OHIO WATER MAIN AND PAVEMENT RESURFACING	5
DJECT №. <b>-10014</b>	TUSCARAWAS COUNTY, OHIO SUMMARY OF QUANTITIES	J
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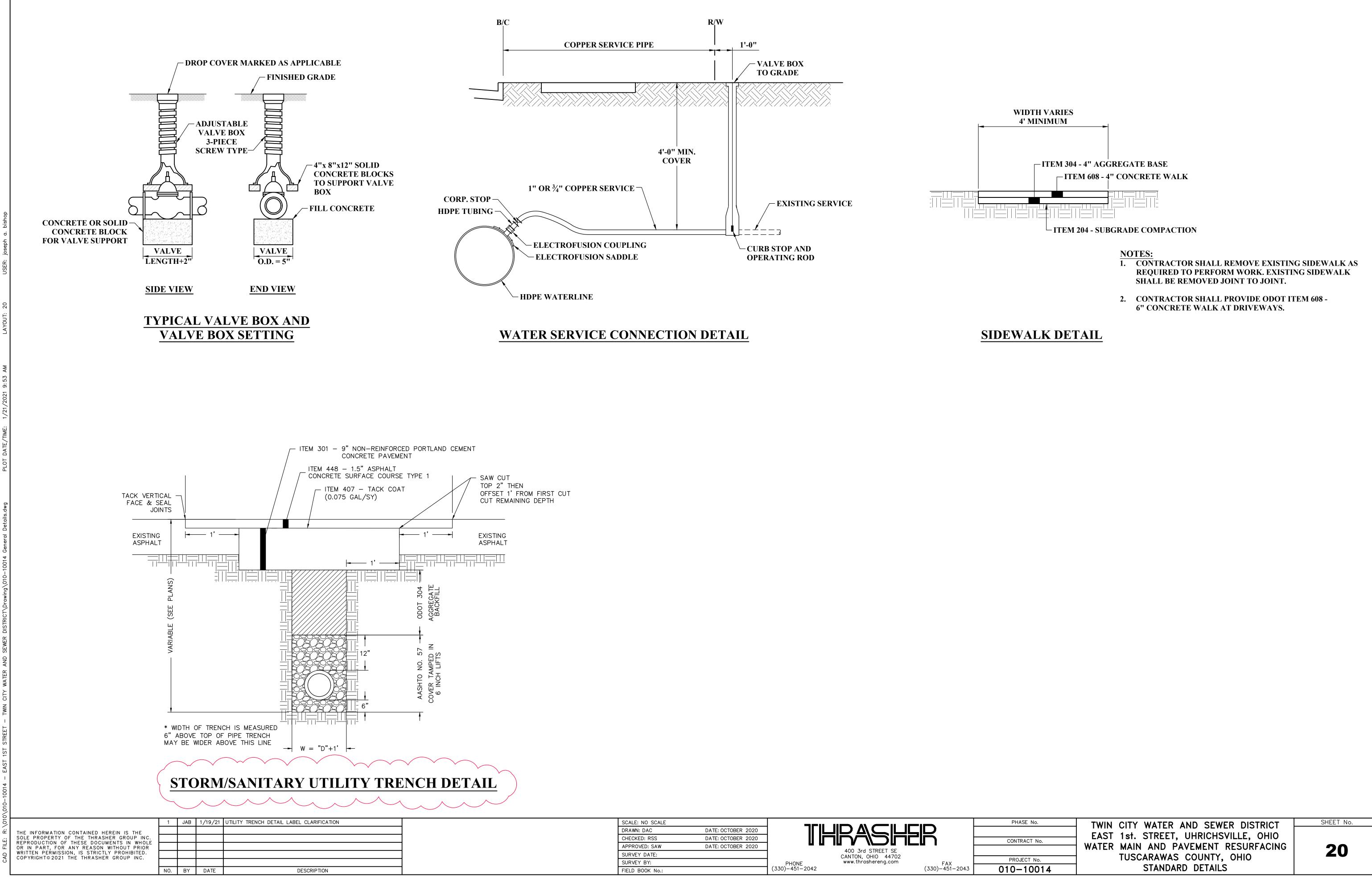


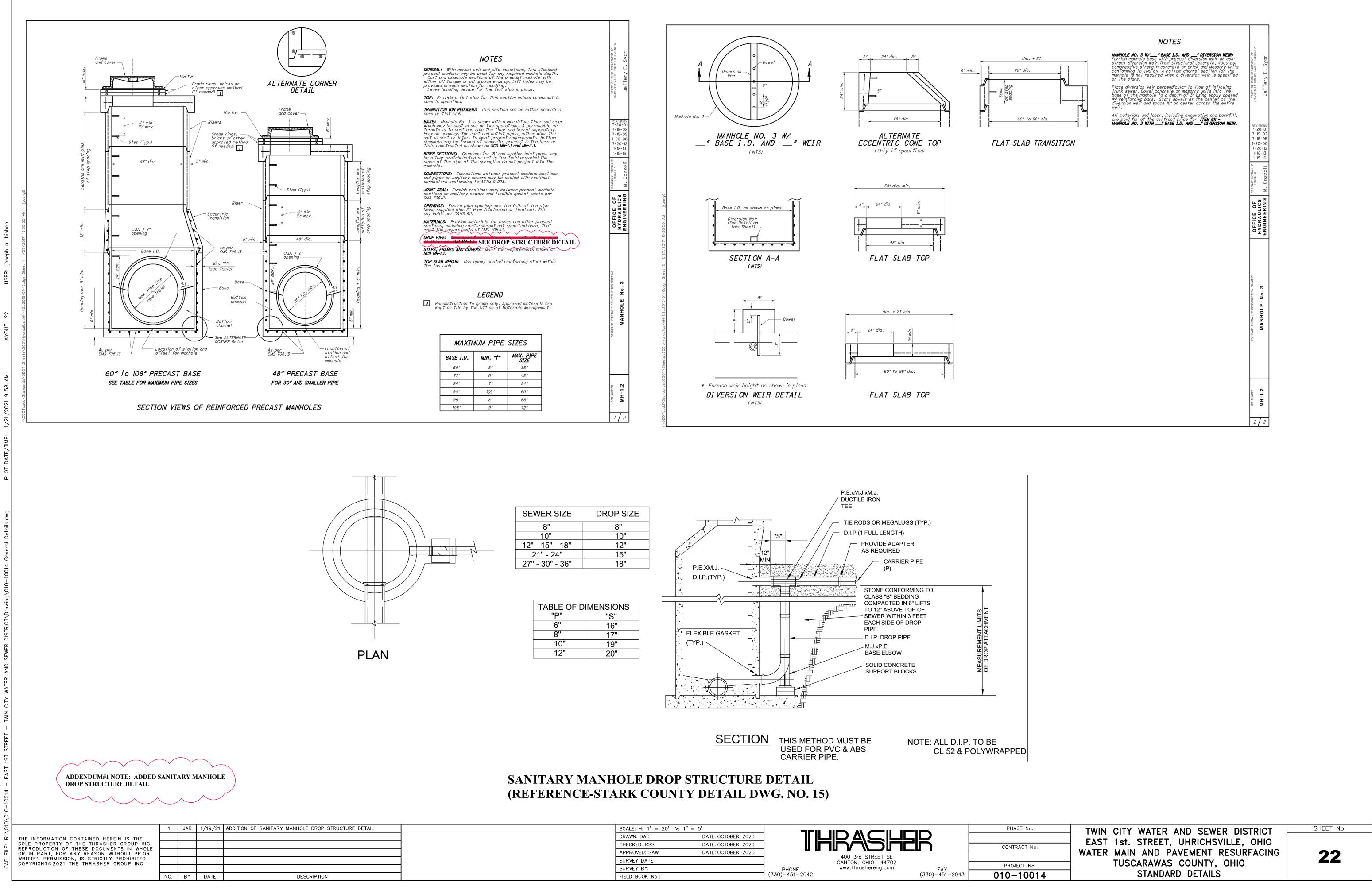
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SEWER SIZE	DROP SIZE
8"	8"
10"	10"
12" - 15" - 18"	12"
21" - 24"	15"
27" - 30" - 36"	18"

TABLE OF DIMENSIONS				
"P"	"S"			
6"	16"			
8"	17"			
10"	19"			
12"	20"			

SCALE: H: 1" = 20' V:	1" = 5'				PHASE
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