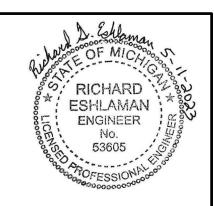


# W DUNKLEY ST PARK DR FEFFLUENT SEWER REALIGNMENT AREA E PATERSON ST E BUSH ST NORWAY **ROBERSON ST** PARSONS ST PARSONS ST MYRTLE ST







# CITY OF KALAMAZOO, MICHIGAN KALAMAZOO/GPI EFFLUENT SEWER REALIGNMENT





JAMES RITSEMA - CITY MANAGER

JAMES J. BAKER, PE - PUBLIC SERVICES DIRECTOR & CITY ENGINEER

JIM CORNELL - WASTEWATER DIVISION MANAGER

STEVE HELMER - TREATMENT OPERATIONS SUPERINTENDENT

CHRIS NELSON - COLLECTIONS AND PLANT MAINTENANCE MANAGER

RYAN STOUGHTON, PE - ASSISTANT CITY ENGINEER - WASTEWATER



# MEMBERS OF COMMISSION

DAVID ANDERSON - MAYOR

DON COONEY - VICE MAYOR

**JEANNE HESS** 

**CHRIS PRAEDEL** 

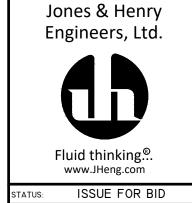
**QIANNA DECKER** 

STEPHANIE HOFFMAN

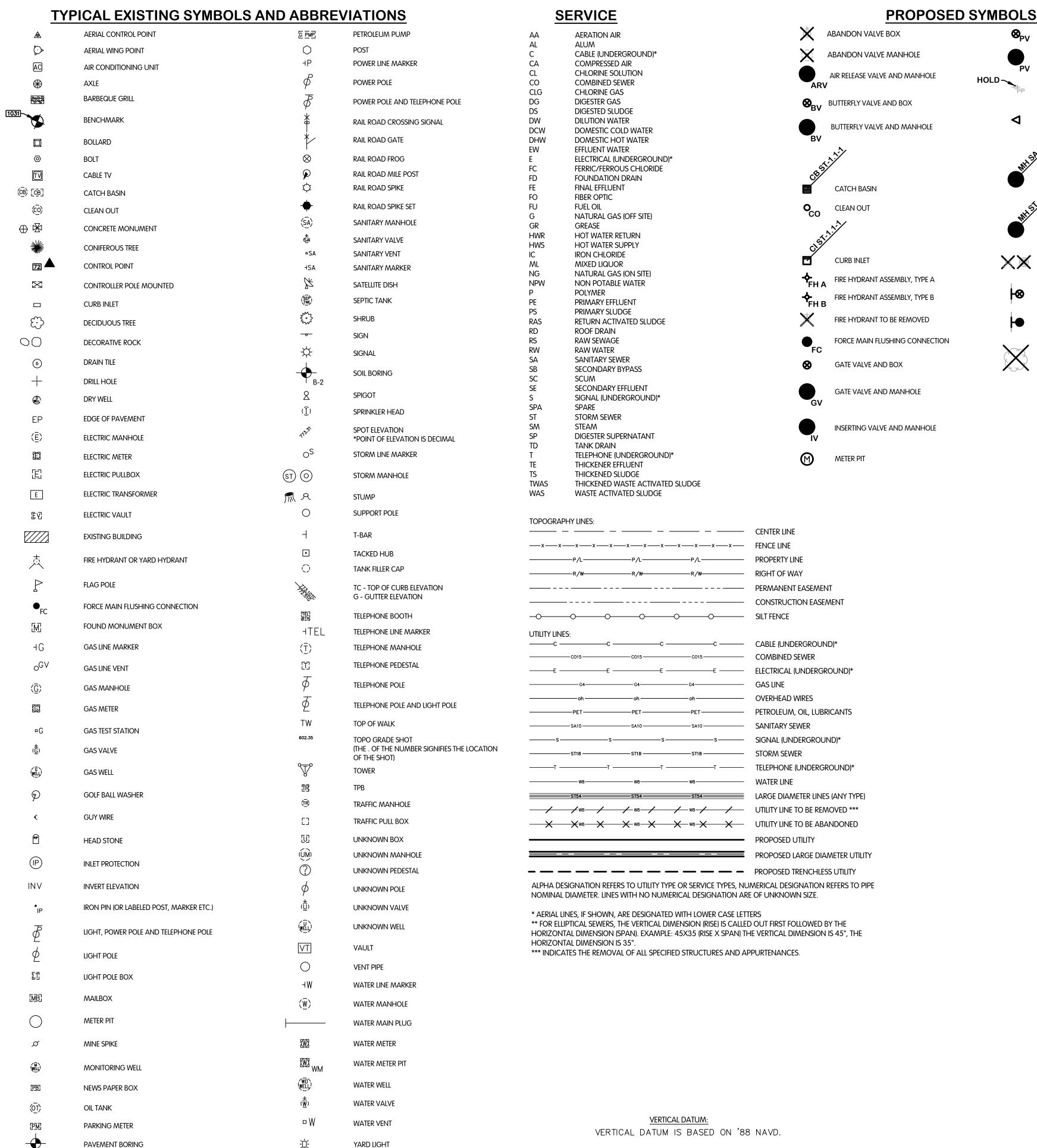
**ESTEVEN JUAREZ** 







MAY 2023



### **DRAWING INDEX**

**⊗**PV PLUG VALVE AND BOX

REDUCER

HOLD~

PLUG VALVE AND MANHOLE

PROTECTED BY CONTRACTOR

SANITARY MANHOLE

STORM MANHOLE

STUMP TO BE REMOVED

TREE TO BE REMOVED

TAPPING SLEEVE VALVE AND BOX

TAPPING SLEEVE VALVE AND MANHOLE

POLE TO BE TEMPORARILY SUPPORTED AND

		Sheet List Table				
Page Number   Sheet Number   Sheet Title		Sheet Title				
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1 G-0.1 LEGENDS, INDEX AND GENERAL NOTES						
2	EXISTING SITE PLAN AND SURVEY CONTROL					
3	G-0.3	GENERAL SUMMARY				
		REMOVALS				
4	R-1.1	INDUSTRIAL DIVERSION CHAMBER 1 - REMOVALS				
5	R-1.2	PARSHALL FLUME - REMOVALS				
6	R-1.3	JUNCTION CHAMBER - ABANDONMENT DETAILS				
CIVIL						
7	C-0.1	STANDARD CIVIL DETAILS				
8	C-0.2	SANITARY AND STORM DETAILS				
9	C-1.1	SITE PLAN AND SHEET KEY				
10	C-1.2	GRADING AND EROSION CONTROL- PARTIAL SITE PLAN				
		SANITARY				
11	SA-1.1	SANITARY - PLAN & PROFILE STA 0+00 TO 5+00				
12	SA-1.2	SANITARY - PLAN & PROFILE STA 5+00 TO 6+84				
		STORM				
13	ST-1.1	STORM - PLAN & PROFILE STA 10+00 TO 13+00				
	STR	UCTURAL AND EQUIPMENT				
14	S-0.1	STRUCTURAL DETAILS				
15	S-1.1	INDUSTRIAL DIVERSION CHAMBER 1 - PLANS				
16	S-1.2	PARSHALL FLUME - PLANS				
		ELECTRICAL				
17 E-0.1 ELECTRICAL LEGEND						
18	E-1.1	ELECTRICAL SINGLE LINE DIAGRAM AND DETAILS				
19	E-1.2	INDUSTRIAL DIVERSION CHAMBER 1 - ELECTRICAL PLAN				

RICHARD **ESHLAMAN ENGINEER** 



INDEX L NOT GENDS, IN GENERAL

2 4 6 2 Jones & Henry



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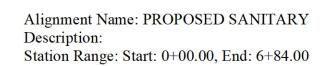
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MAY 2023

1 of 19

G-0.1

PAY PHONE



PI Station	Northing	Easting	Distance	Direction
0+00.00	296,180.59'	12,797,035.30'		
			13.42'	S87°E
0+13.42	296,179.87'	12,797,048.70'		
			44.46'	S86°E
0+57.88	296,176.94'	12,797,093.06'		
			112.56'	S34°E
1+70.44	296,083.86'	12,797,156.35'		
			286.45'	S22°E
4+56.89	295,817.91'	12,797,262.78'		
			194.86'	S1°W
6+51.75	295,623.09'	12,797,259.11'		
			6.65'	S1°W
6+58.40	295,616.43'	12,797,258.99'		
			25.59'	S66°E
6+84.00	295,605.95'	12,797,282.33'		

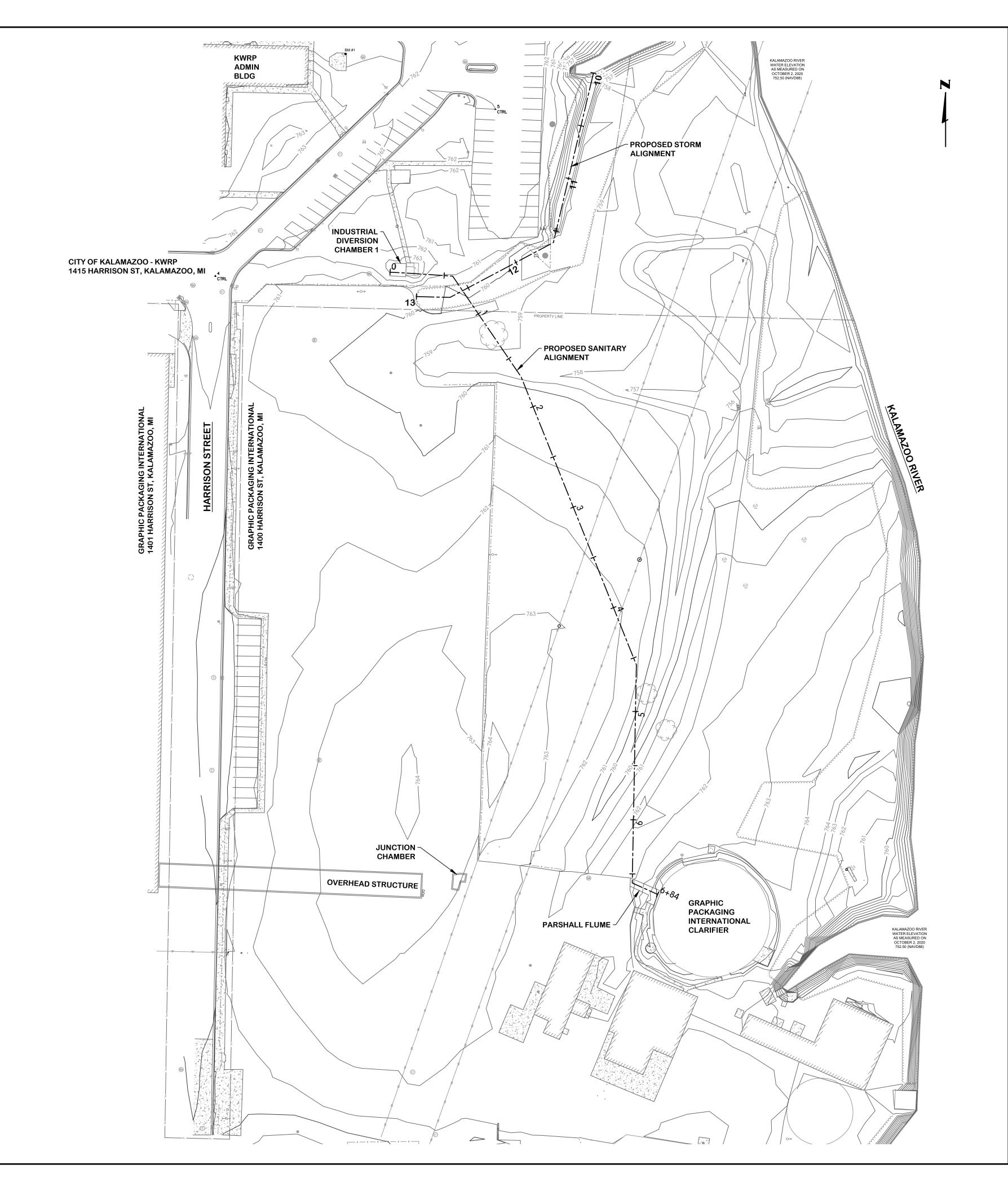
Alignment Name: PROPOSED STORM Description: Station Range: Start: 10+00.00, End: 13+00.00

PI Station	Northing	Easting	Distance	Direction
10+00.00	296,364.48'	12,797,223.13'		
			160.87'	S13°W
11+60.87	296,207.93'	12,797,186.12'		
			108.09'	S62°W
12+68.96	296,157.29'	12,797,090.63'		
			31.04'	N89°W
13+00.00	296,158.03'	12,797,059.60'		

### SURVEYOR NOTES:

- Utilities shown are approximate locations derived from actual measurements. They should not be interpreted to be exact locations nor should it be assumed that they are the only utilities in this area.
- Benchmark #1: Plastic tag stamped "763.76" near the NE corner of overflow chamber East of the Administration Building. ELEVATION:763.30 (NAVD88).
- 3. Basis of Coordinates: Michigan State Plane South, International feet.
- 4. Control Point Information:

NO.	NORTHING	EASTING	ELEV		
1	296855.290	12797095.924	760.27	MAG NAIL	)
2	296626.441	12797089.940	761.54	MAG NAIL	NOTE IN PLAN VIEW
3	296403.981	12797084.294	761.92	MAG NAIL	)
4	296177.009	12796873.824	761.58	MAG NAIL	
5	296331 126	12797132 506	762 99	MAG NAII	



2001G02-EXISTING SITE PLAN AND SURVEY CONTROL

NAC-1702001302-EAISTING STEFFEN AND SURVET 5/10/2023 2:52 PM - CFERRELL 5/11/2023 2:99 PM

MAY 2023

SHEET NO.

G-0.2

1:50

2 4 6 9 -

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JOB NO. 017-7982.001

THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE

DRAWN CJAF

2 of 19

RICHARD CESHLAMAN ENGINEER

EXISTING PROJECT AREA AND SURVEY CONTROL

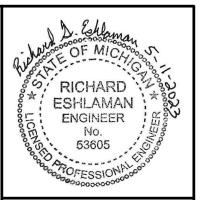
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156

443 198





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REVISION

Jones & Henry



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26 27

28 29

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31 32

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34

641

206

156

EA 24-inch Mega-Flange Adapter (Labor Only)

EA 24-inch MJ 90 Degree Bend (Labor Only)

EA 12-inch MJ 90 Degree Bend (Labor Only)

EA Type III Sanitary Sewer Manhole (8' Diameter)

1/8 FLG P) (Labor Only)

EA CIPP 24-inch sanitary Sewer

LF 6-foot High Chain Link Fence

LF Remove Chain Link Fence

EA Restoration

EA Materials Testing
EA Construction Staking

EA Post-CCTV Inspection of Sewers

EA 12-inch Megalug F/DI

EA 24-inch Megalug F/DI (Labor Only)

24-inch Nut & Bolt Gasket Set (NLA 24 304 SS 150# RR FF

EA 24-inch MJ Bolt & Gasket Package Less Gland (Labor Only)

EA 12-inch MJ Bolt & Gasket Package Less Gland (Labor Only)

1

1

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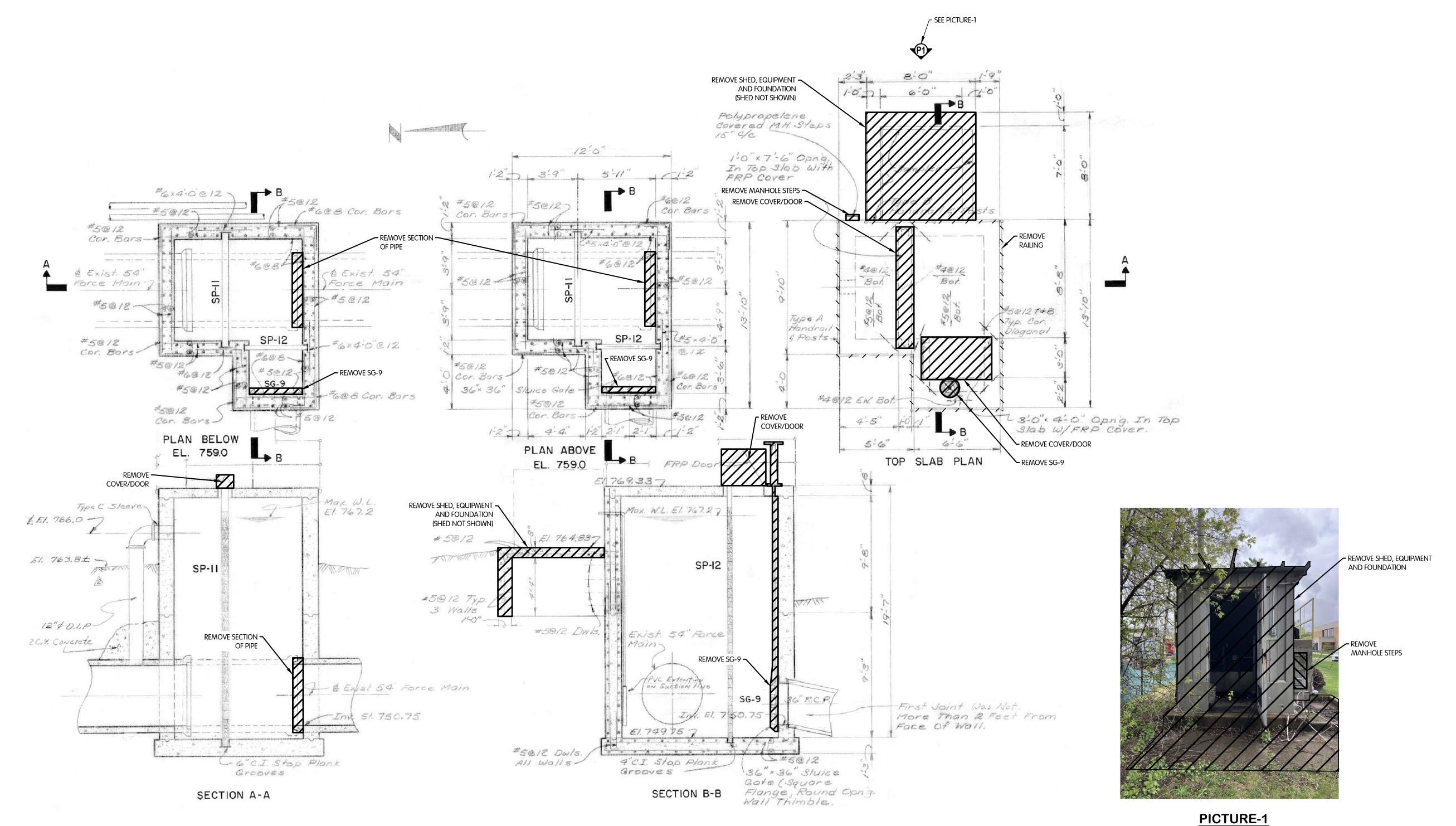
SCALE AS NOTED

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DRC CJAF RGE
TUS: ISSUE FOR BID

MAY 2023
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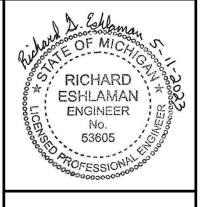
### NOTES:

ALL ELEVATIONS SHOWN ARE NGVD 29.

2. VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE INTERFACE BETWEEN EXISTING AND NEW CONSTRUCTION PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.

CONSTRUCTION. NOTIFY THE ENGING.

3. ESTIMATED SCALE: 1/4"= 1'-0".





NMENT

PARSHALL FLUME REMOVALS

REMC

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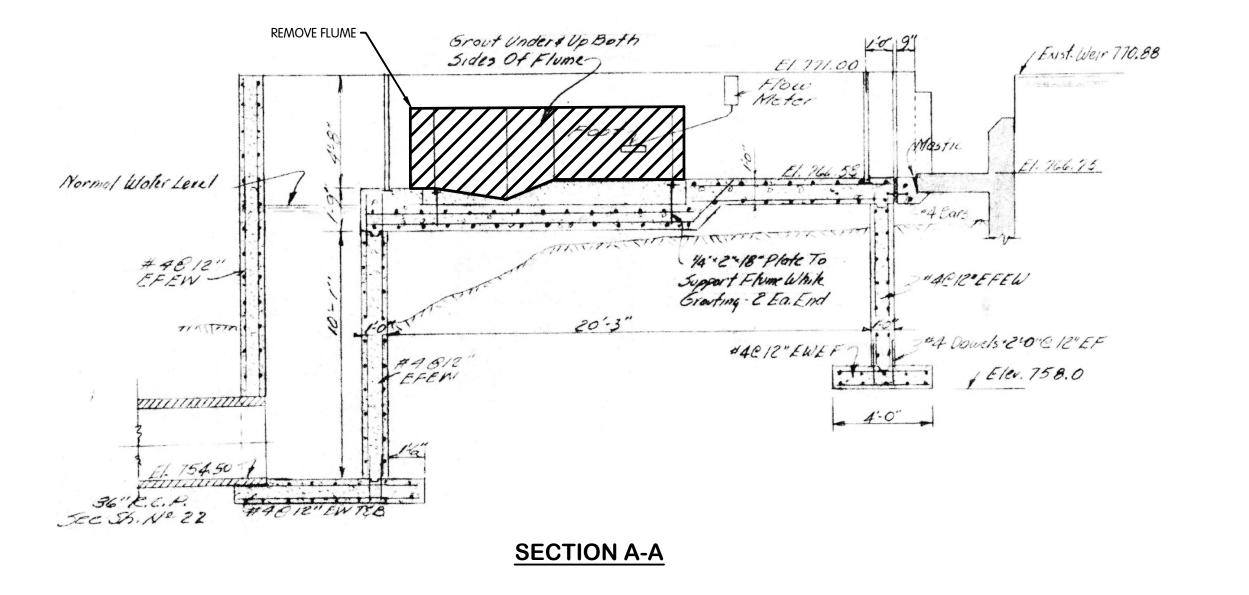
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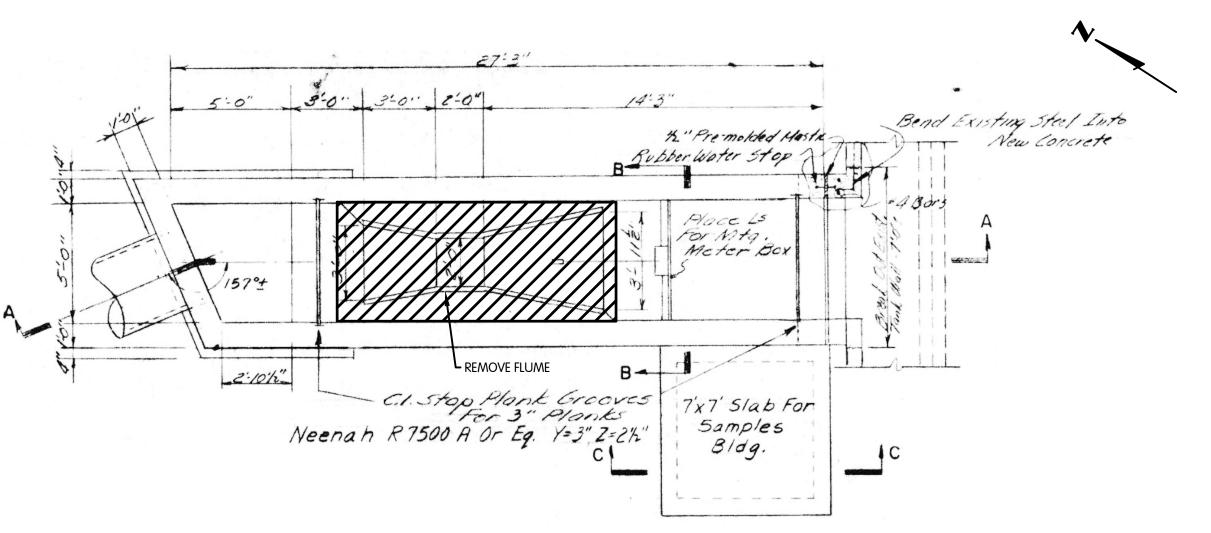
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MAY 2023 SHEET NO.

R-1.2 5 of 19

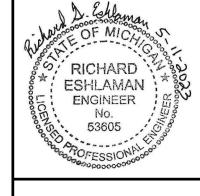




### **REMOVAL PLAN VIEW**

### NOTES:

- 1. ALL ELEVATIONS SHOWN ARE NGVD 29.
- 2. VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE INTERFACE BETWEEN EXISTING AND NEW CONSTRUCTION PRIOR TO
- CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
- 3. ESTIMATED SCALE: 1/4"= 1'-0".





ILS

JUNCTION CHAMBER ABANDONMENT DETAIL

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JOB NO. 017-7982.001

THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE

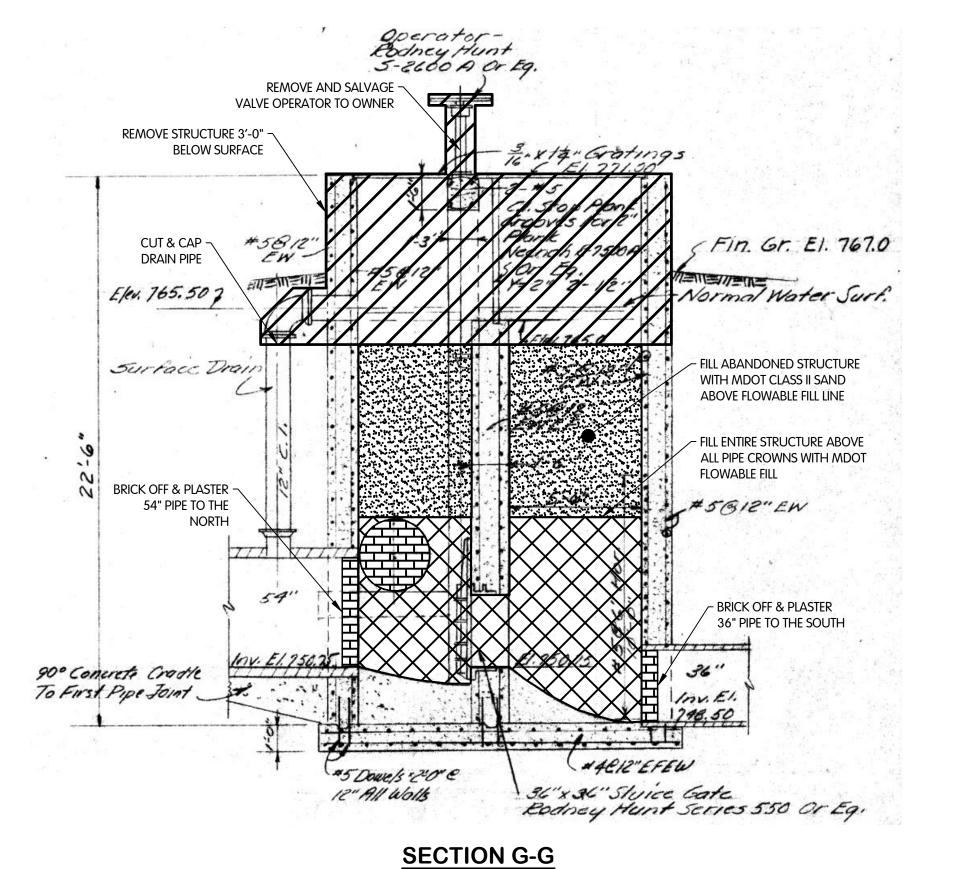
DESIGNED DRAWN CHECKED
RGE CJAF RGE
STATUS: ISSUE FOR BID
DATE: MAY 2023

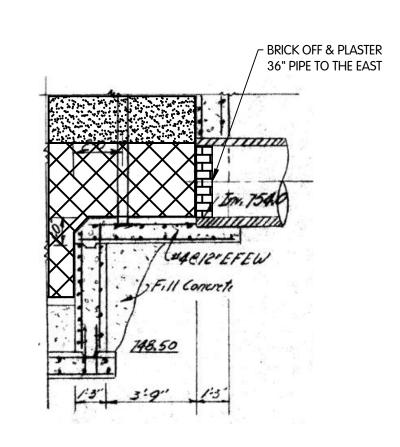
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6 of 19

### **PLAN VIEW**





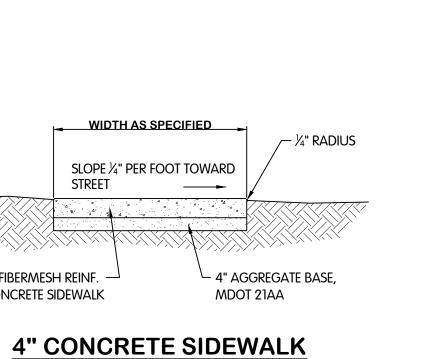
**SECTION H-H** 

### NOTES:

ALL ELEVATIONS SHOWN ARE NGVD 29.
 VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE

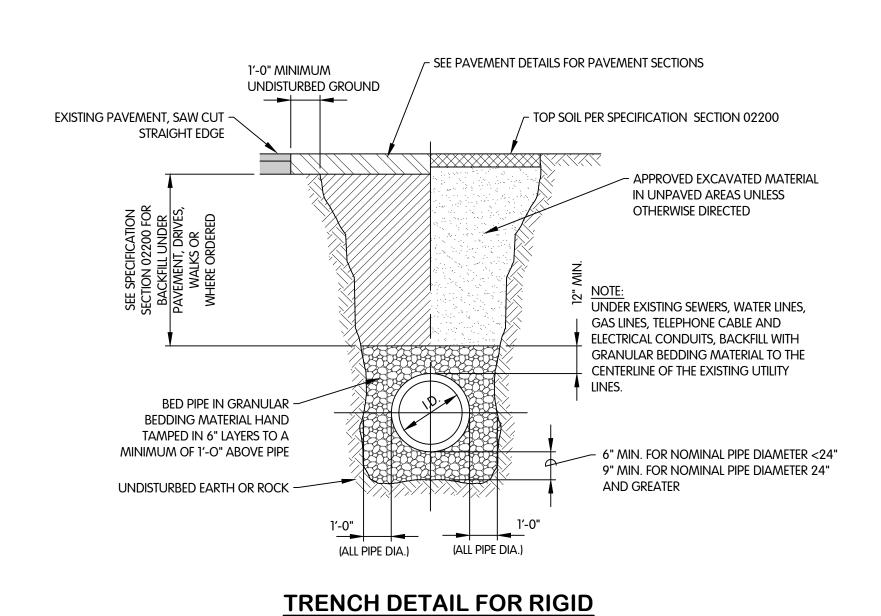
INTERFACE BETWEEN EXISTING AND NEW CONSTRUCTION PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.

3. ESTIMATED SCALE: 1/4"= 1'-0".

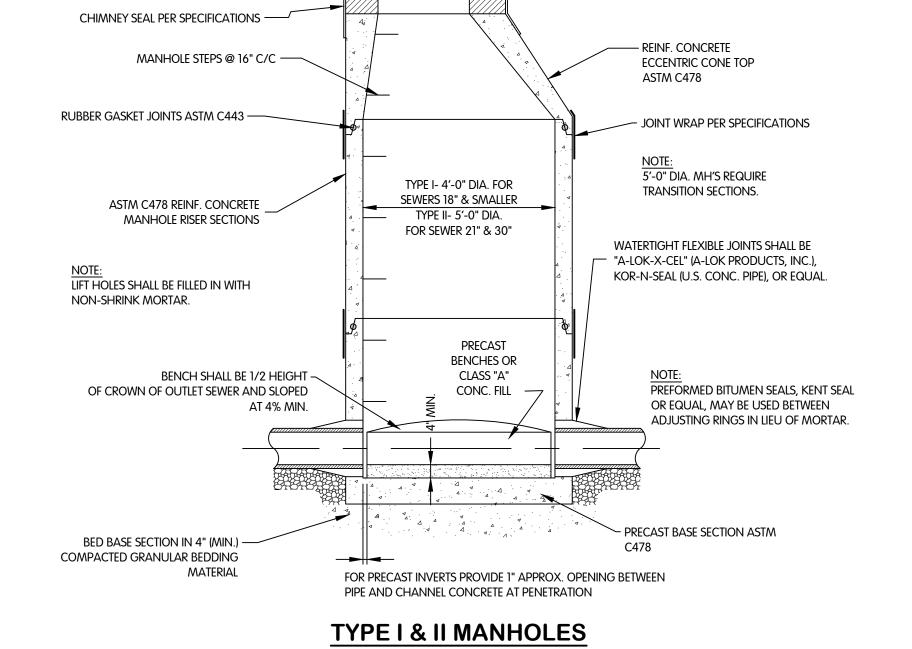


4" FIBERMESH REINF. -

CONCRETE SIDEWALK



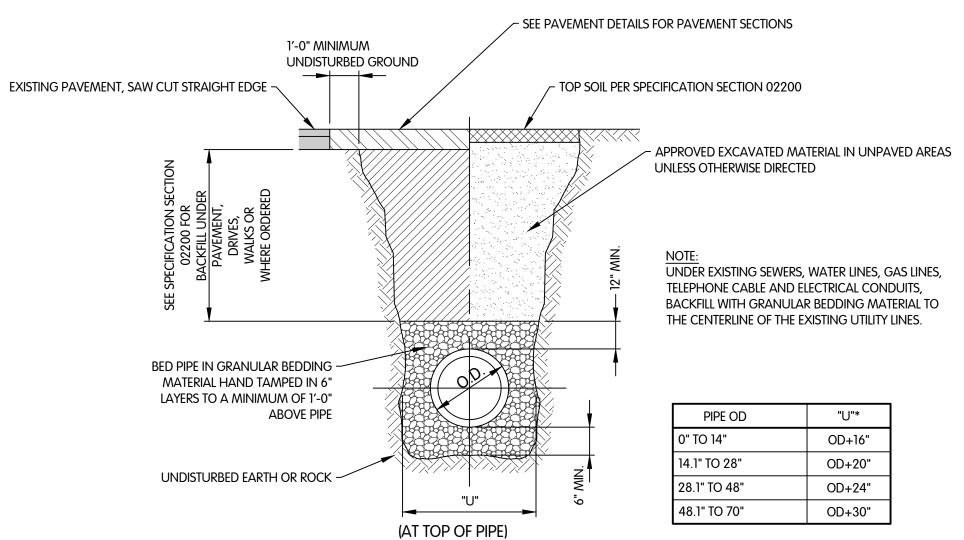
PIPE (DIP)



MH FRAME & COVER

ADJUSTING RINGS 4" MIN. 16" MAX. -





### TRENCH SCHEDULE

"U" IS THE MINIMUM WIDTH FOR FLEXIBLE PIPES IN ACCORDANCE WITH ASTM D-2321 AND D-2774.

TRENCH DETAIL FOR FLEXIBLE PIPE

RICHARD ESHLAMAN ENGINEER No.

STANDARD CIVIL DETAILS

2 4 6 9 -Jones & Henry



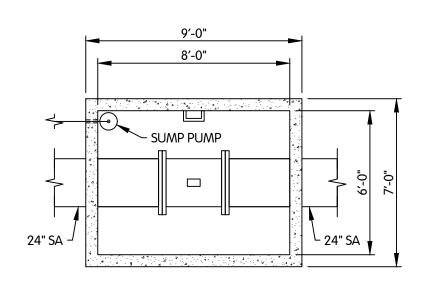
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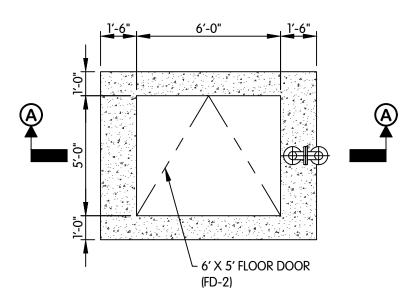
NONE THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE

CJAF ISSUE FOR BID

MAY 2023

C-0.17 of 19



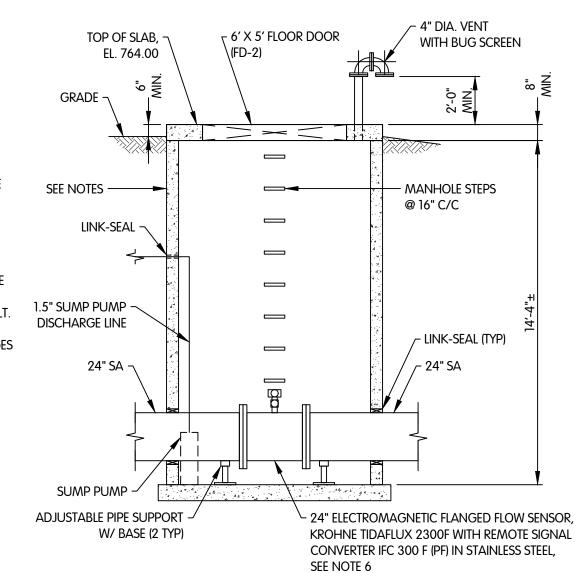


**PLAN ELEVATION 759.00** 

**PLAN VIEW** 

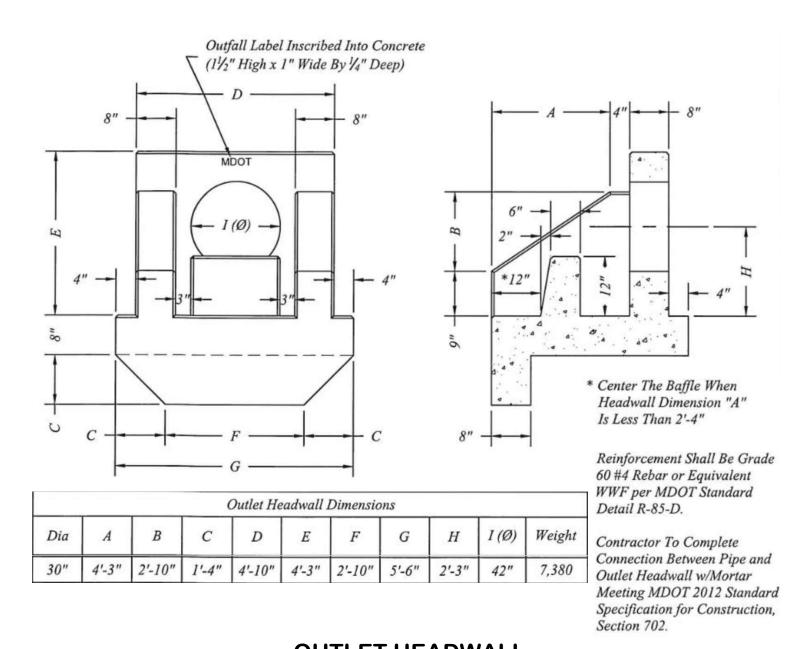
1. LIFT HOLES SHALL BE FILLED IN WITH NON-SHRINK MORTAR. 2. PREFORMED BITUMEN SEALS, KENT SEAL OR EQUAL, MAY BE USED BETWEEN ADJUSTING RINGS IN LIEU OF MORTAR.

- 3. METER VAULT TO BE A PRECAST CONCRETE STRUCTURE. 4. FILL AROUND STRUCTURE WITH SPECIAL BACKFILL. 5. BED BASE SECTION IN 4" (MIN.) COMPACTED GRANULAR
- BEDDING MATERIAL. 6. CONTRACTOR TO FIRST INSTALL A SPOOL SECTION THE SAME LENGTH AS THE ELECTROMAGNETIC FLOW SENSOR SO THE LINING CONTRACTOR CAN LINE THROUGH THE METER VAULT. ONCE THE LINING IS COMPLETE, THE CONTRACTOR WILL REMOVE THE SPOOL SECTION, CUT THE LINER AT THE FLANGES AND INSTALL THE ELECTROMAGNETIC FLOW SENSOR.

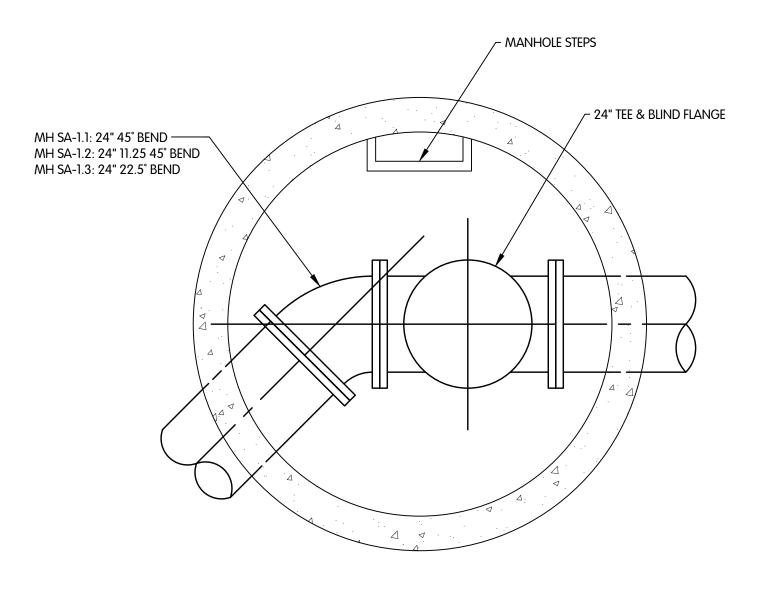


**SECTION VIEW A-A** 

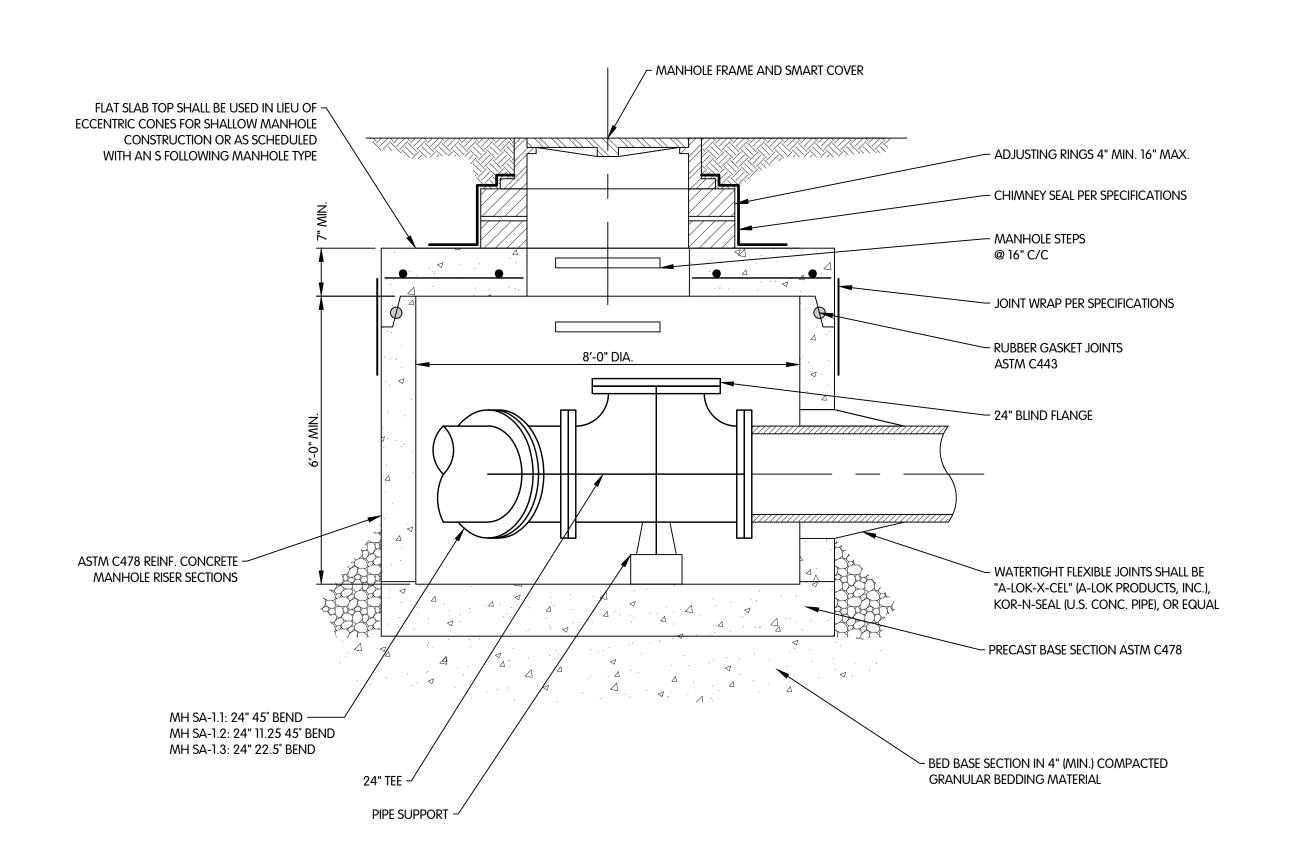
**METER VAULT** 



**OUTLET HEADWALL** 



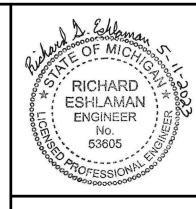
**SECTIONAL PLAN** 



1. LIFT HOLES SHALL BE FILLED IN WITH NON-SHRINK MORTAR. 2. PREFORMED BITUMEN SEALS, KENT SEAL OR EQUAL, MAY BE

USED BETWEEN ADJUSTING RINGS IN LIEU OF MORTAR.

MANHOLE STRUCTURES SA-1.1, SA-1.2 & SA-1.3





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2 4 6 9 -Jones & Henry Engineers, Ltd.

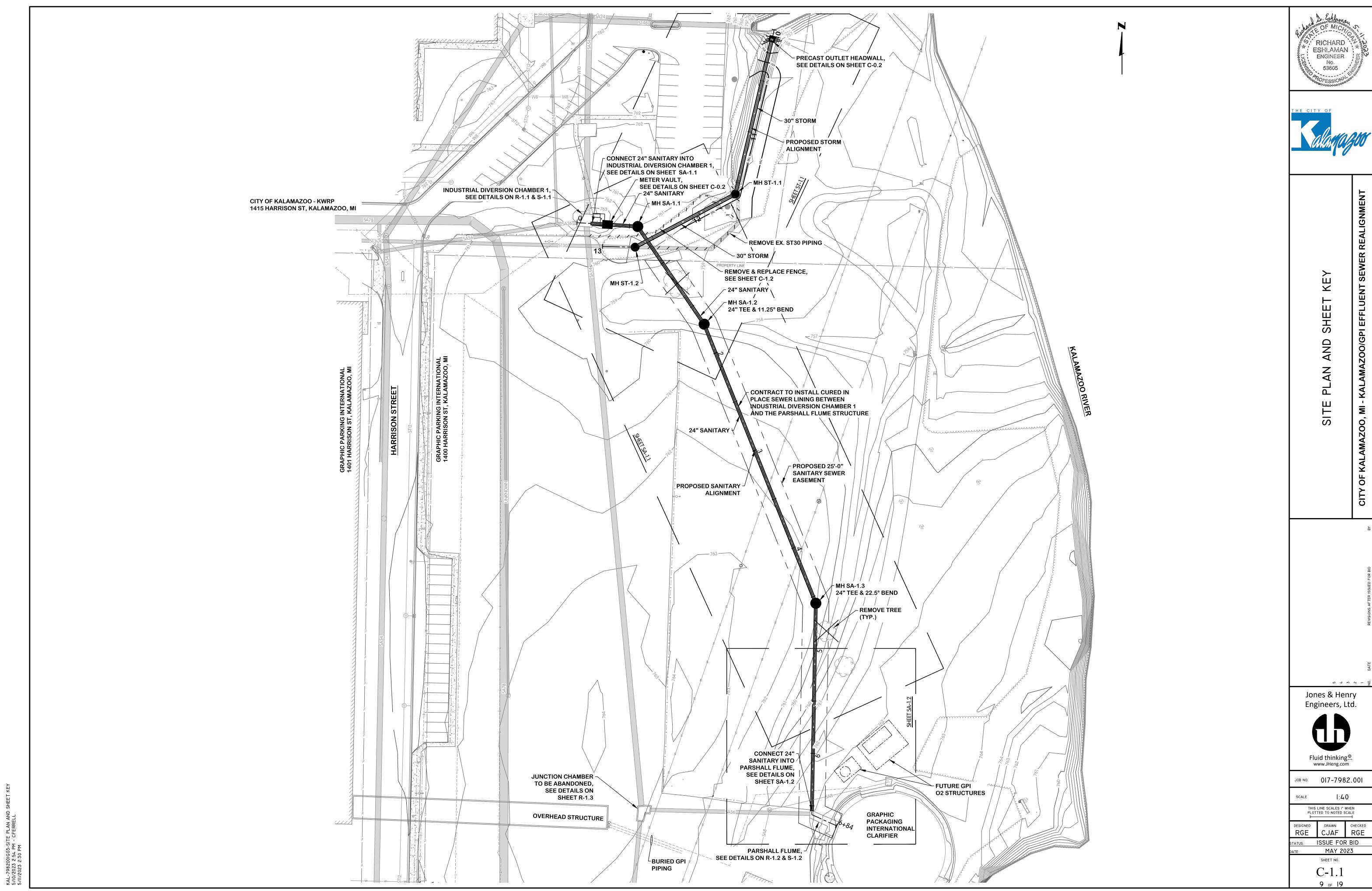


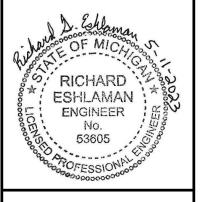
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MAY 2023 SHEET NO.







GRADING AND EROSION CONTROL PARTIAL SITE PLAN

DATE POR RID

0 4 m 0 -

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SCALE 1:20

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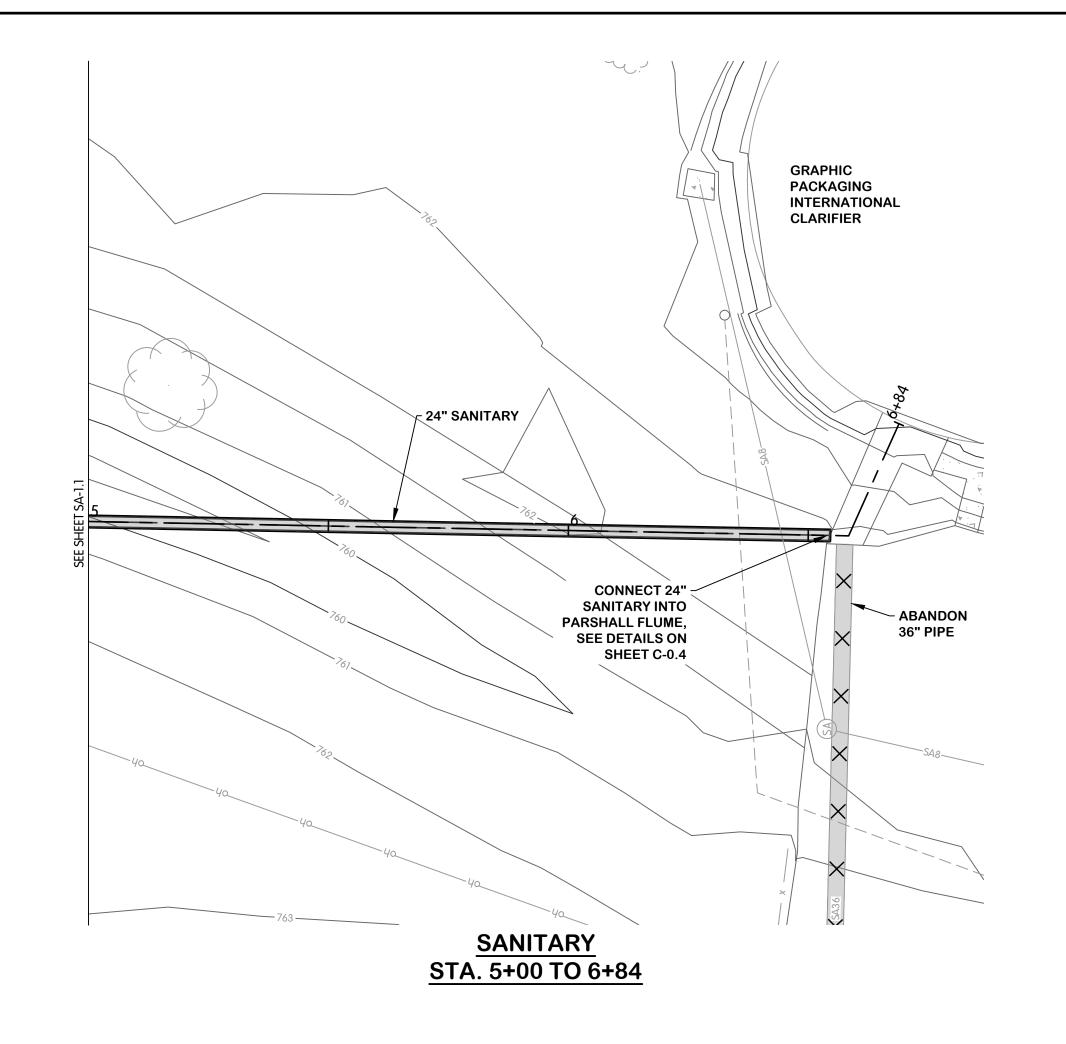
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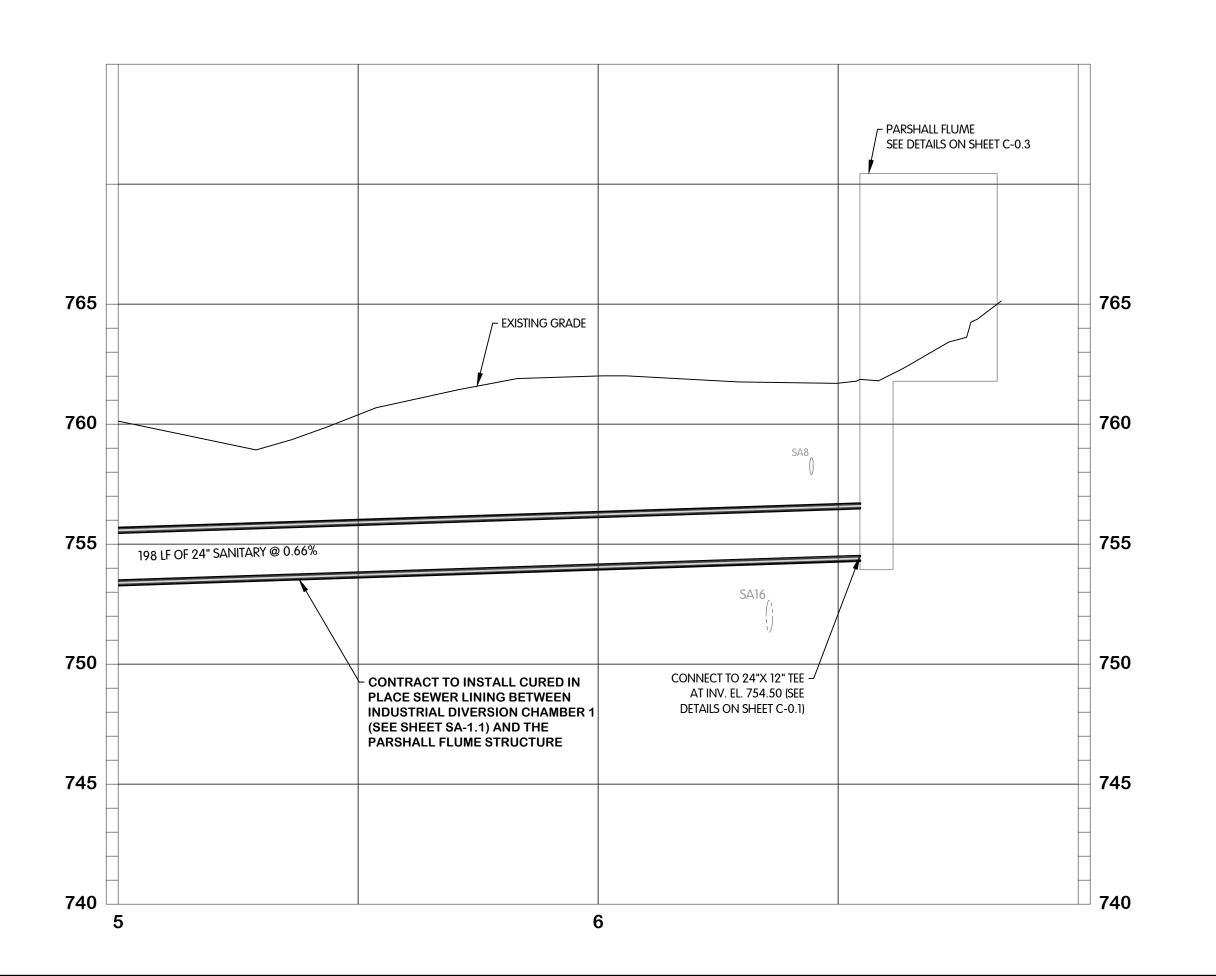
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DATE: MAY 2023

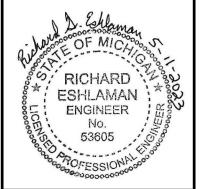
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10 of 19









T SEWER REALIGNMENT

SANITARY PLAN AND PROFILE STA. 5+00 TO 6+84

ATE REVISIONS AFTER ISSUED FOR BID BY

Jones & Henry Engineers, Ltd.



JOB NO. 017-7982.001

| I"=20'H, | I"=4'V

THIS LINE SCALES I' WHEN PLOTTED TO NOTED SCALE

DESIGNED DRAWN CHECKED

CJAF RGE

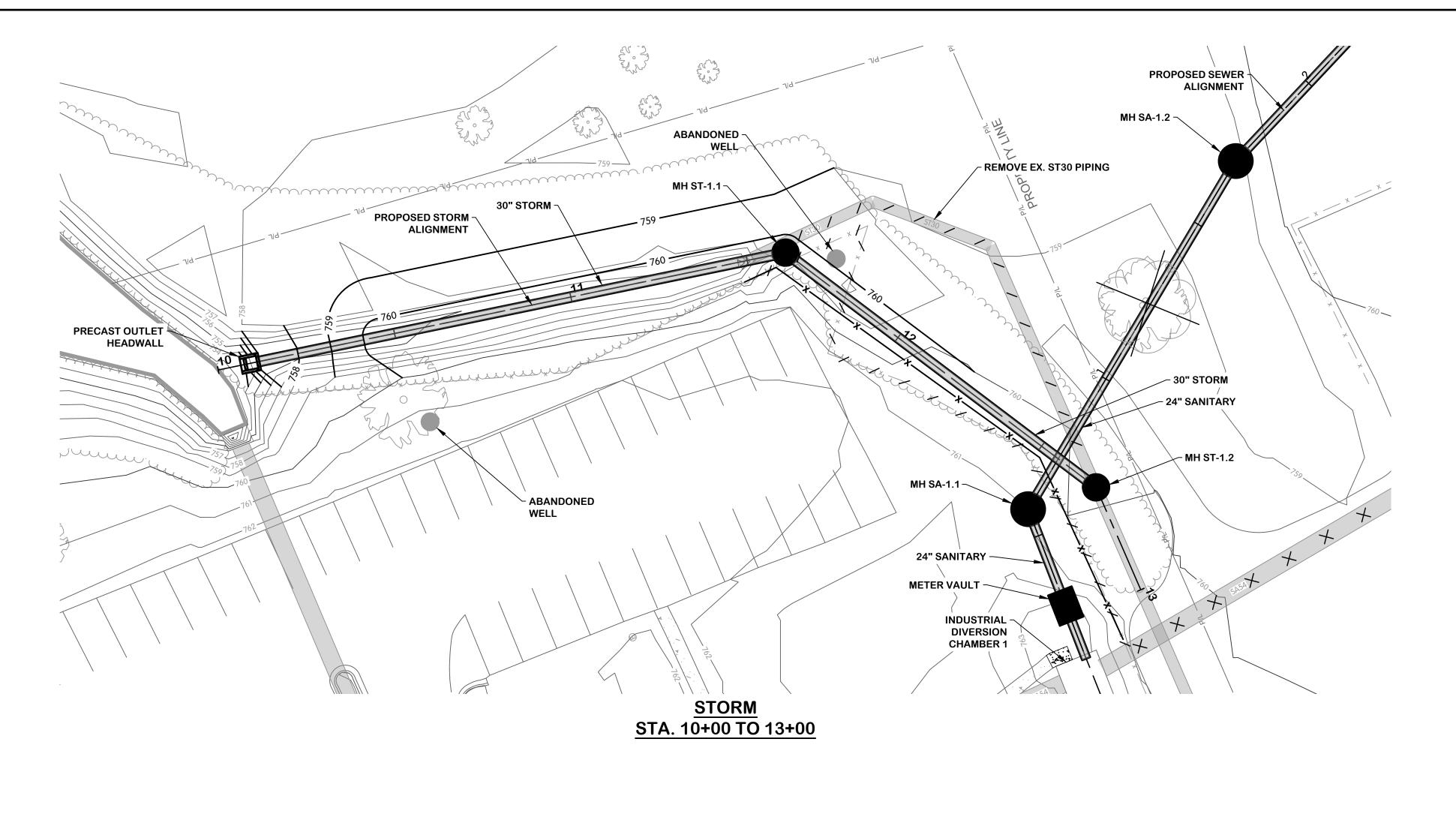
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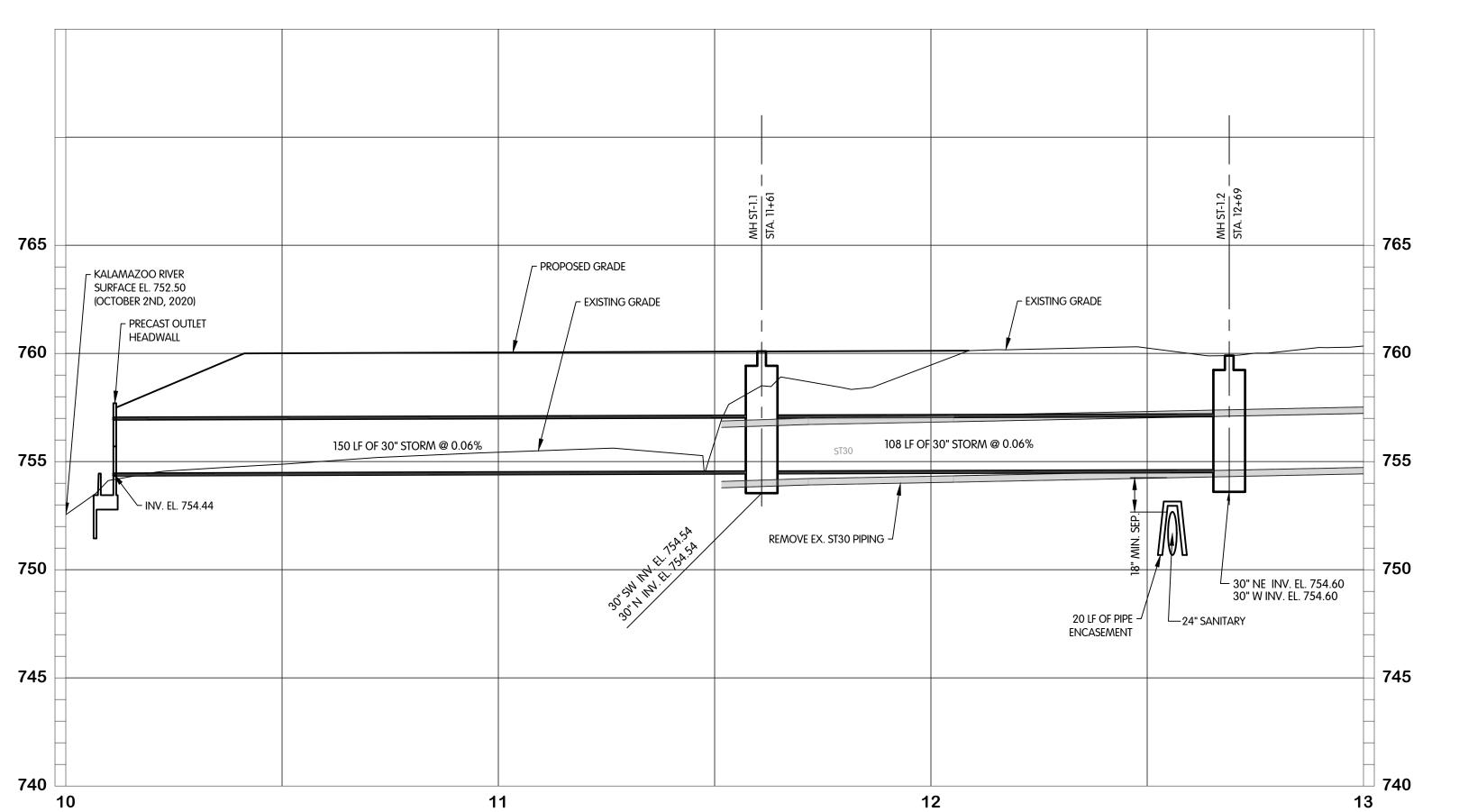
TE: MAY 2023

SHEET NO.
SA-1.2

12 of 19

5/10/2023 3:11 PM - CFERRELL 5/11/2023 2:30 PM





RICHARD ESHLAMAN ENGINEER No. 53605



AMAZOO/GPI EFFLUENT SEWER REALIGNMENT STORM N AND PROFILE 10+00 TO 13+00

v 4 v 2 – Jones & Henry Engineers, Ltd.

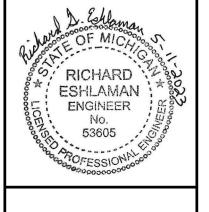


JOB NO. 017-7982.001 I"=20'H,

THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE CJAF CHECKED RGE

MAY 2023

ST-1.1 13 of 19





LIGNMENT

SEWER REALI

SIRUCIURAL DEI

1½" METAL PIPE

~ 4" HIGH TOE PLATE,

**UNLESS NOTED** 

OTHERWISE

REVISIONS AFTER ISSUED FOR RID

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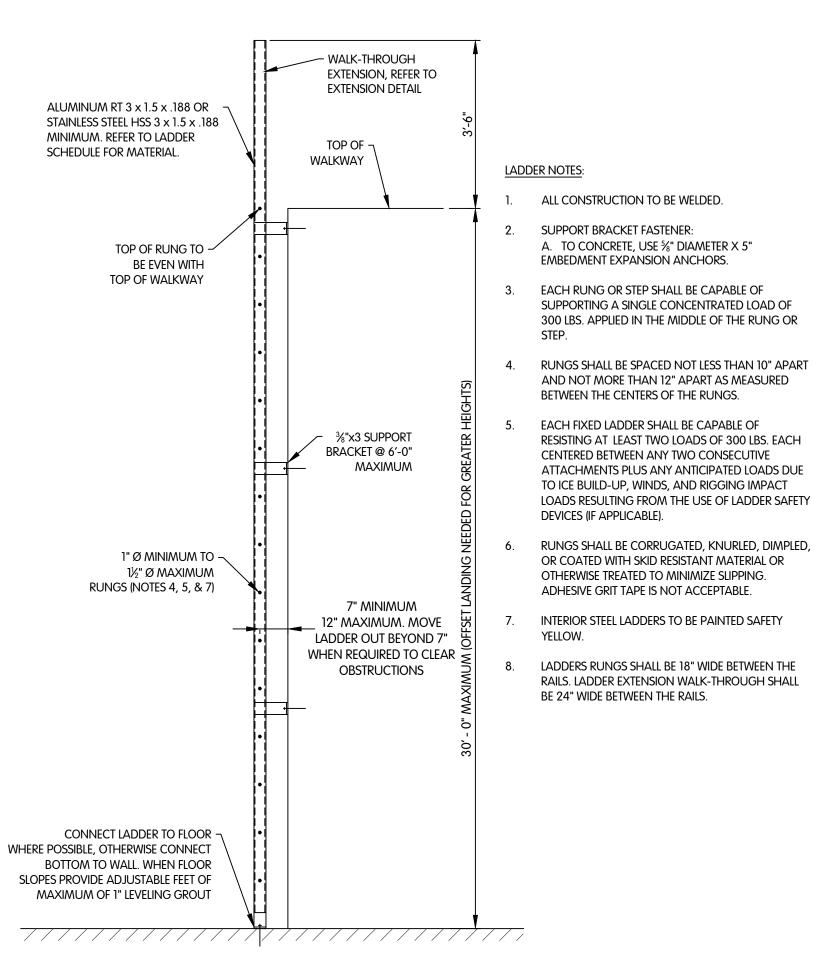
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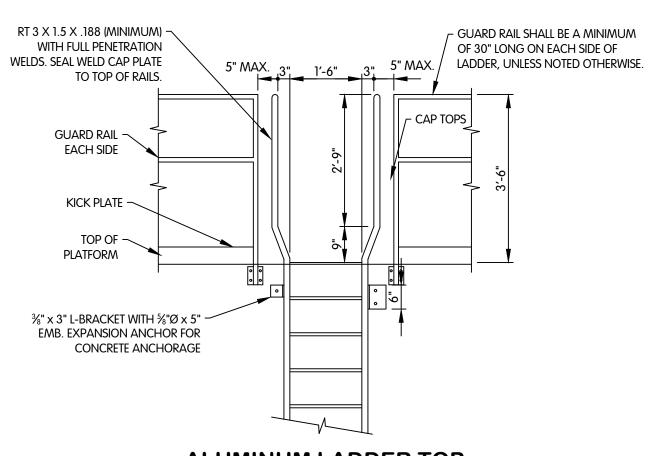
MAY 2023
SHEET NO.

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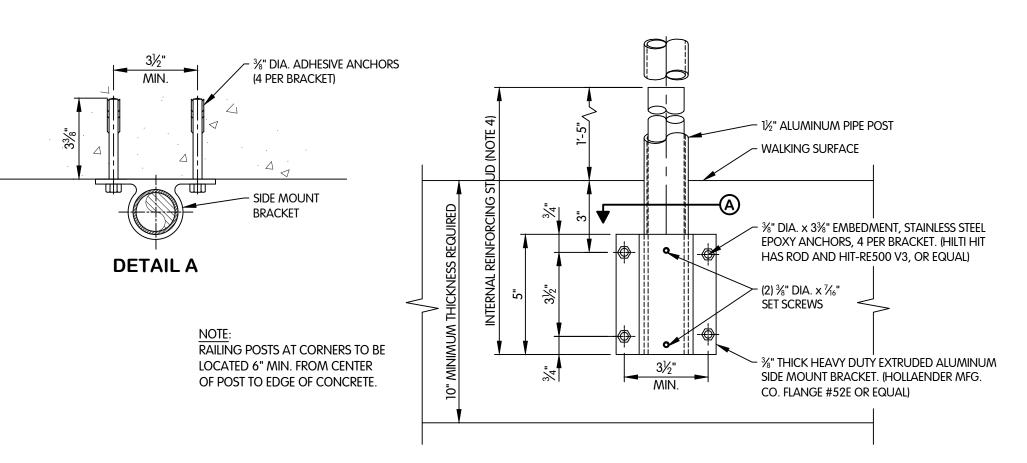


### TYPICAL LADDER SECTION

½" = 1′-0"



ALUMINUM LADDER TOP
EXTENSION DETAIL



# TYPE A ALUMINUM RAILING POST

RAILING BASE CONNECTION NOTES:

1. PROVIDE COAL TAR PAINT OR NEOPRENE GASKET BETWEEN ALUMINUM SURFACES IN CONTACT WITH CONCRETE, MASONRY, OR DISSIMILAR METALS.

2. ANCHORS FASTENERS:

Railing Material Carbon Steel Aluminum

STAINLESS STEEL

ZINC PLATED CARBON STEEL
STAINLESS STEEL
STAINLESS STEEL

3. POST BRACKET MATERIAL SHALL MATCH POST MATERIAL, UNLESS NOTED OTHERWISE.

4. POST SHALL BE REINFORCED WITH INTERNAL METAL STUD WHEN REQUIRED BY ENGINEERED DESIGN. STUD SHALL BE WELDED TO POST TO ACT AS ONE MEMBER.

RAILING NOTES:

1. GUARD RAILING SHALL BE STANDARD.

ALUMINUM - SCH. 80 5'-0" 4'-0"

WITH STUD H = 34" H = 42"

STEEL - SCH. 40 5'-0" 5'-0"

ALUMINUM - SCH. 40 5'-0" 5'-0"

3. REFER TO POST BASE CONNECTION DETAILS FOR ADDITIONAL POST SPACING RESTRAINTS AND STUD INSERT REQUIREMENTS.

- METAL STOPS 1½" WIDE x ¼" THICK FASTENED TO GATE

HEAVY DUTY -

**SELF-CLOSING GATE DETAIL** 

(TWO RAIL)

MAXIMUM POST SPACING

SEE RAILING NOTES

\_\_\_\_\_\_\_

**GUARD RAILING, STANDARD** 

SPRING HINGE

**PLAN AT EL. 757.00** 

4' X 4' FLOOR DOOR (FD-1) ¬

CONCRETE CURB ¬

EL. 769.33 ¬

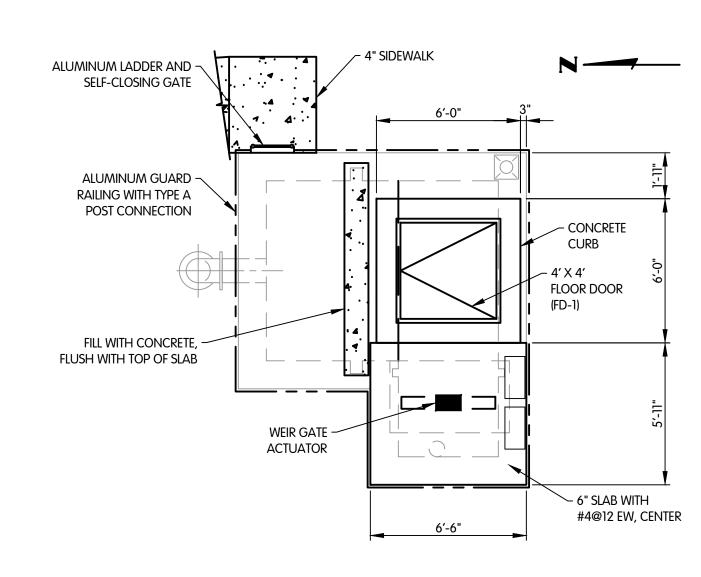
PLUG EXISTING ~

PERMANENT -

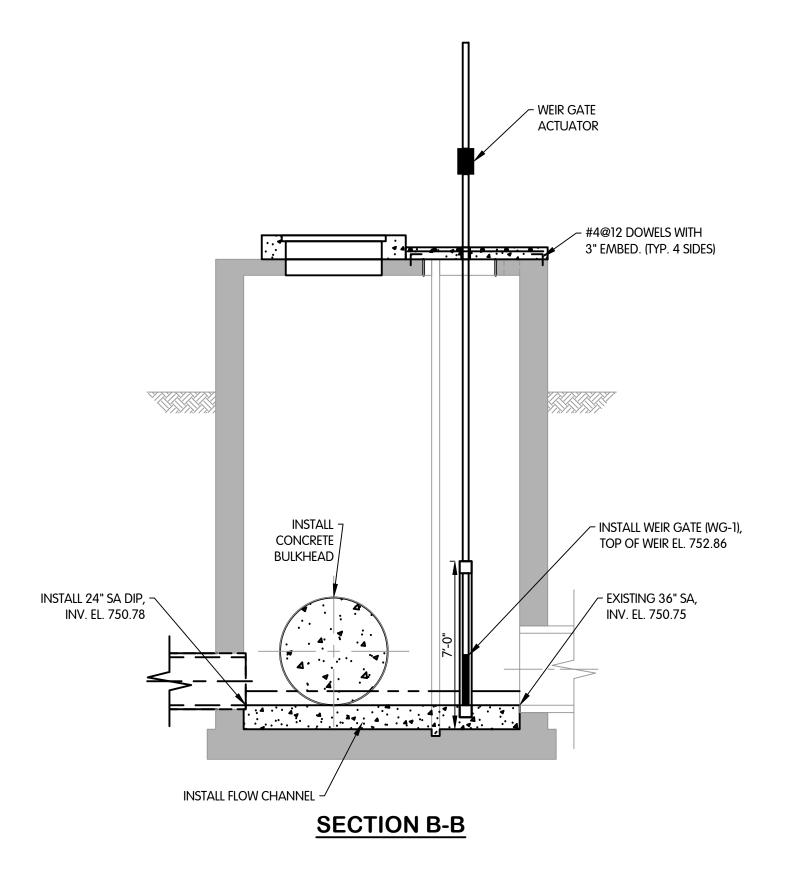
FORM

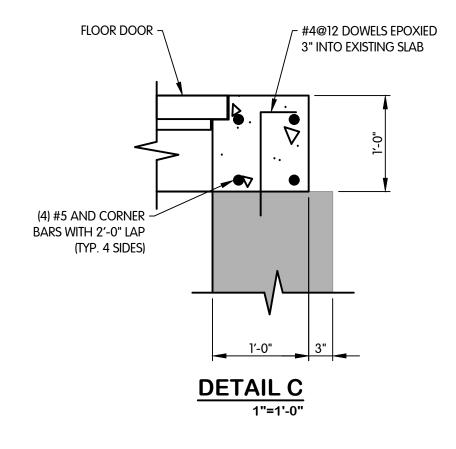
ABANDON EXISTING ¬

54" FORCE MAIN



### **TOP SLAB PLAN**





- 12" CONCRETE WITH #5@12 X 2'-0" LONG

WITH 5" EMBED AROUND PERIMETER

- FILL WITH CONCRETE, #4@12 X2'-0"

DOWELS EPOXIED 4" INTO EXISTING

- Manhole Steps, 16" C/C / #4@12 EW WITH 2" COVER

- ABANDON EXISTING

54" FORCE MAIN

/ INSTALL 24" SA DIP, INV. EL. 750.78

 $\checkmark$  Calss a concrete fill  $\sim$  install flow channel

**SECTION A-A** 

CONCRETE (TYP. TOP, BOTTOM AND SIDES)

1. ALL ELEVATIONS SHOWN ARE NGVD 29.

2. VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE INTERFACE BETWEEN EXISTING AND NEW CONSTRUCTION PRIOR TO

4. GUARD RAIL AND LADDER NOT SHOWN IN SECTION VIEWS FOR CLARITY.

CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.

3. ESTIMATED SCALE: 1/4"= 1'-0".

RICHARD ESHLAMAN ENGINEER No. 53605



INDUSTRAIL DIVERSION CHAMBER SANITARY DETAILS

Jones & Henry Engineers, Ltd.

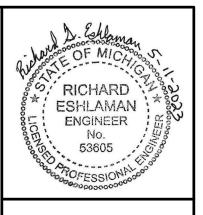


JOB NO. 017-7982.001

NONE THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE

DRAWN CJAF MAY 2023

S-1.1





PARSHALL FLUME SANITARY DETAILS

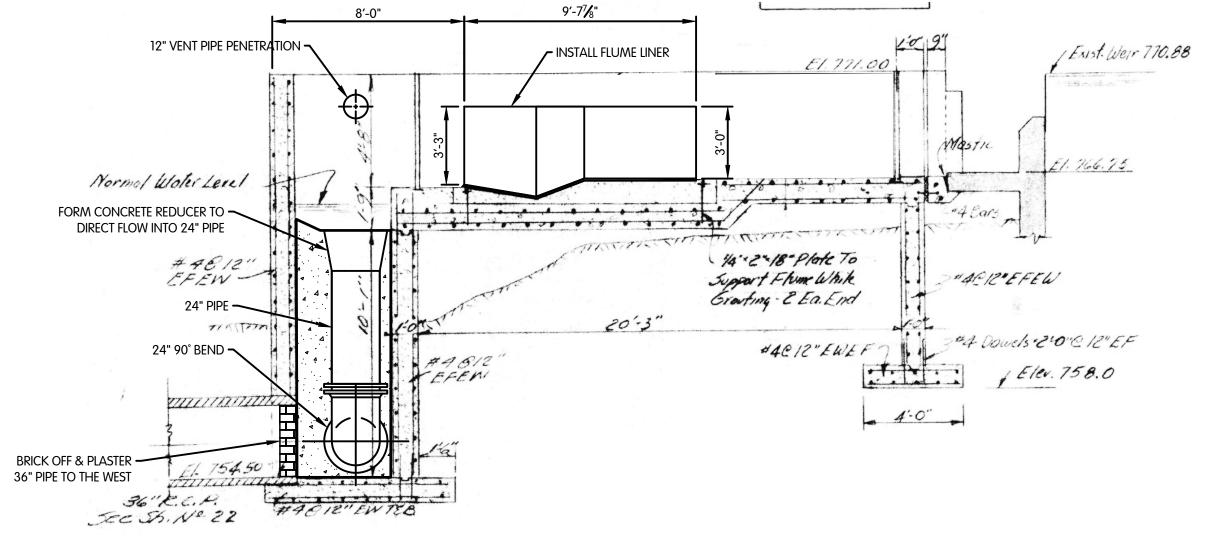
0 4 K 0 -Jones & Henry



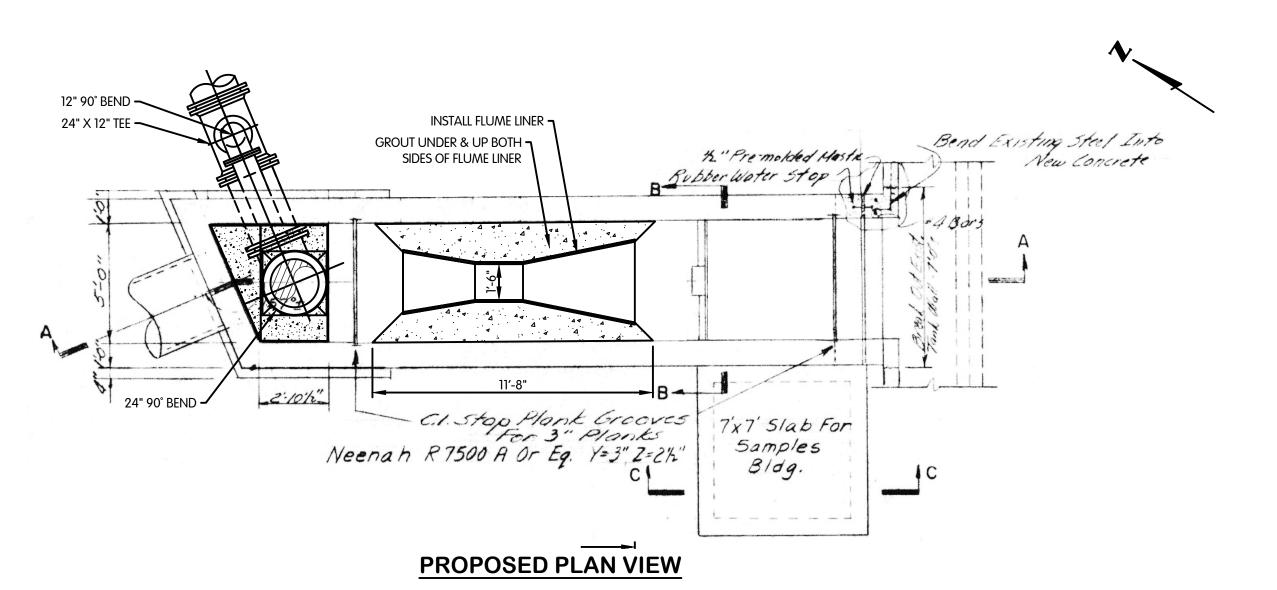
JOB NO. 017-7982.001

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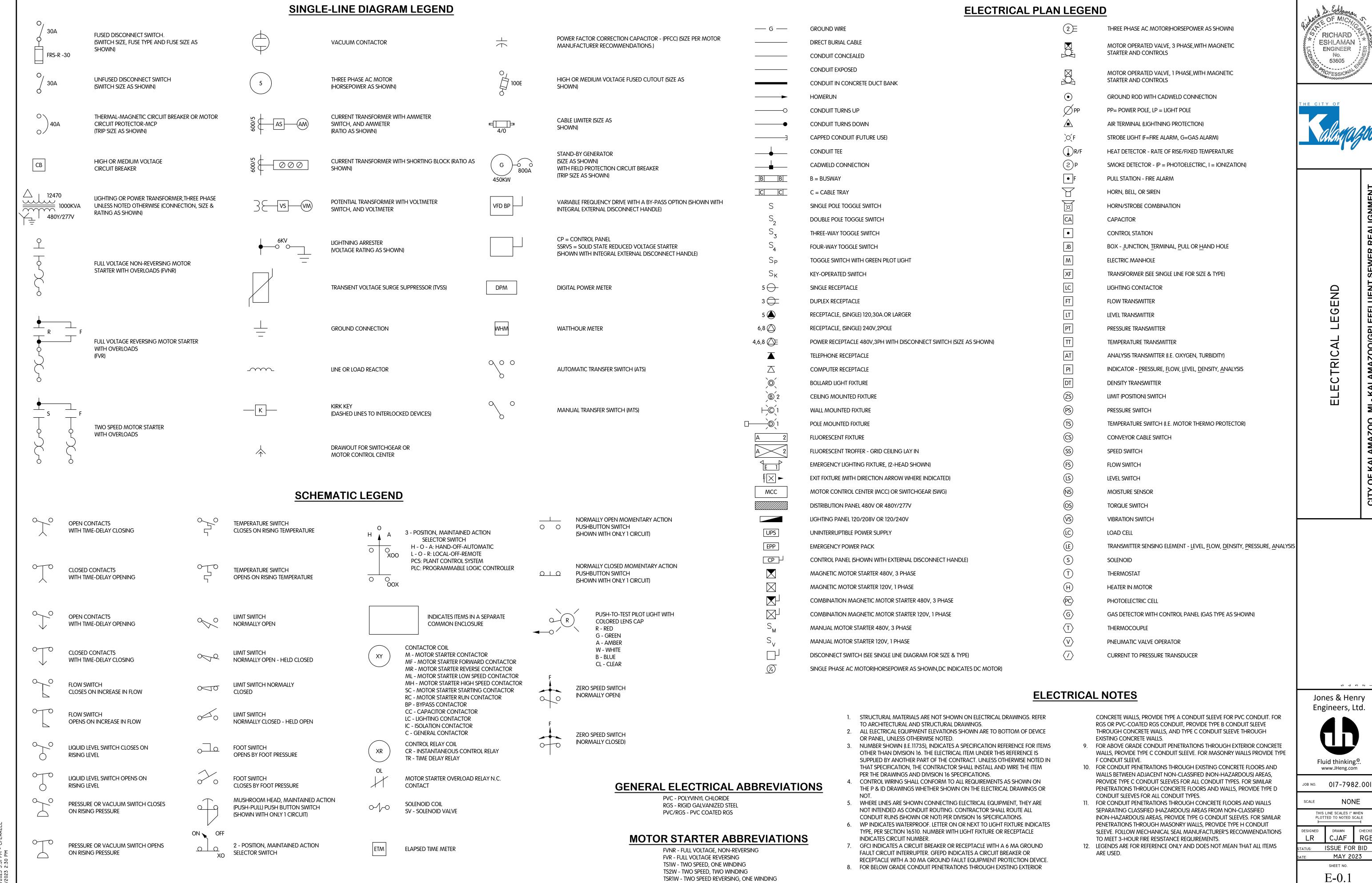


### **SECTION A-A**



1. ALL ELEVATIONS SHOWN ARE NGVD 29.

- 2. VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE INTERFACE BETWEEN EXISTING AND NEW CONSTRUCTION PRIOR TO
- CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
- 3. ESTIMATED SCALE: 1/4"= 1'-0".



TSR2W - TWO SPEED REVERSING, TWO WINDING

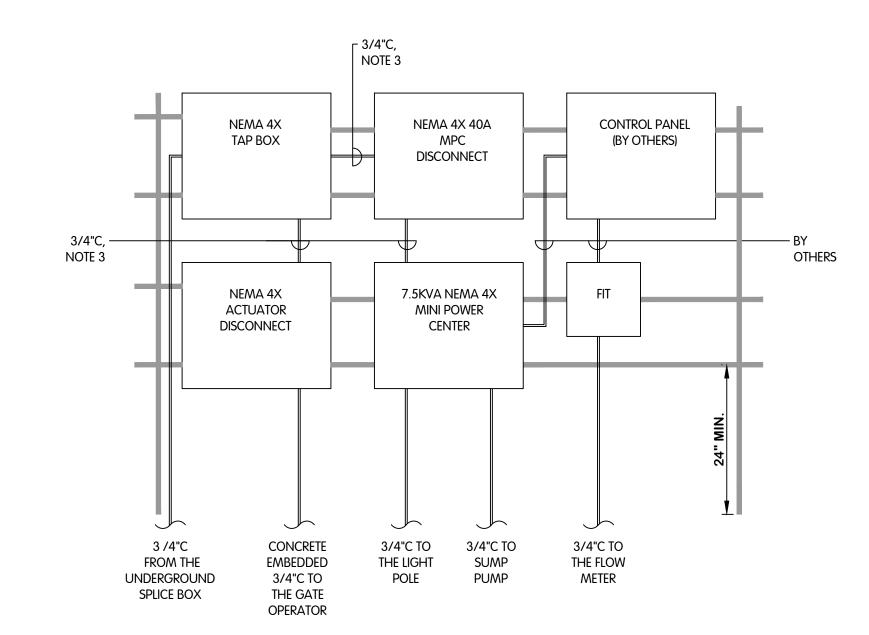
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### **ONE-LINE DIAGRAM**

EQUIPMENT BY OTHERS

**EXISTING** LIGHT & POLE RECEPTACLE

MOTOR OPERATED ACTUATOR



480V FEEDER BREAKER IN PCC-00 -INSIDE PILOT BUILDING FEEDING THE INDUSTRIAL DIVERSION CHAMBER 1

CONTRACTOR SHALL REMOVE THE -EXISTING JUNCTION BOX, SPLICE THE

CABLES AND EXTEND THE CONDUIT AND WIRE TO THE NEW TAP BOX



PICTURE-1



- MANUFACTURER CABLE IN A 3/4"C (CONTRACTOR TO FIELD VERIFY THE LENGTH)

- 1. CONTRACTOR SHALL EXTEND THE EXISTING FEEDER CABLE USING A SPLICE BOX (BY QUAZITE OF SIZE 11'L X 9"W X 6-3/4"D) AT THE DIVERSION CHAMBER #1 TO THE NEW ACTUATOR.
- 2. REFER TO PHOTOS ON THIS DRAWING SHEET FOR REFERENCE.
- 3. CONDUITS ARE SHOWN ONLY FOR DIAGRAMMATIC REFERENCE. CONTRACTOR SHALL INSTALL CONDUITS AS PER APPROVED OUTDOOR INSTALLATIONS.
- 4. CONTRACTOR SHALL INSTALL A TAP BOX WITH 3 OUTLETS TO FACILITATE WIRING FOR FUTURE FLOW METER/SUMP PUMP OR FLUME THAT IS TO BE PROVIDED AND INSTALLED BY OTHERS THROUGH A MINI POWER ZONE.

PICTURE-2

RICHARD **ESHLAMAN ENGINEER** 



DE ELECTRICAL LINE DIAGRAM AND

0 4 K 0 -

Jones & Henry Engineers, Ltd.



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NONE THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE

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E-1.1

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CHAMBER -AN INDUSTRIAL DIVERSION ELECTRICAL PL

2 4 6 2 -Jones & Henry



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AS NOTED THIS LINE SCALES I" WHEN PLOTTED TO NOTED SCALE

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E-1.2

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DIAGRAM ON SHEET E-1.1 (BY OTHERS) (FE-1) —— 3/4"C BY CONTRACTOR — 3/4"C TO THE NEW UNDERGROUND \_ 3 /4"C TO THE EXISTING LIGHT POLE SPLICE BOX 50 NEMA 4X TAP BOX ~ \_ EXISTING LIGHT POLE 30A NEMA 4X -ACTUATOR DISCONNECT (BELOW) 50 NEMA 4X MPC DISCONNECT -(ABOVE) 7.5KVA NEMA 4X MPC -(BELOW) Control Panel-Provided ~ And Installed by Others (ABOVE) 3/4"C TO THE ACTUATOR — RUN ALL CONDUITS ALONG -THE WALL OF THE STRUCTURE MOTOR OPERATED ACTUATOR -(WEIR GATE)

FROM THE SPLICE BOX, REFER TO THE RISER

### **PLAN VIEW**

1. CONTRACTOR SHALL INSTALL ALL THE ELECTRICAL EQUIPMENT ON A RACK AGAINST THE

TO METER VAULT TO METER VAULT SUMP PUMP FLOW ELEMENT

- WALL OF THE STRUCTURE. REFER TO THE EQUIPMENT RACK DETAIL ON SHEET E-1.1. 2. REFER TO SPEC 16005 SECTION 2.08 AND 3.10 FOR SPLICE BOX/ SPLICING DETAILS.
- 3. ALL ELEVATIONS SHOWN ARE NGVD 29.
- 4. VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE INTERFACE BETWEEN EXISTING AND NEW CONSTRUCTION PRIOR TO CONSTRUCTION. NOTIFY THE
- ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION. 5. ESTIMATED SCALE: 3/4"= 1'-0".