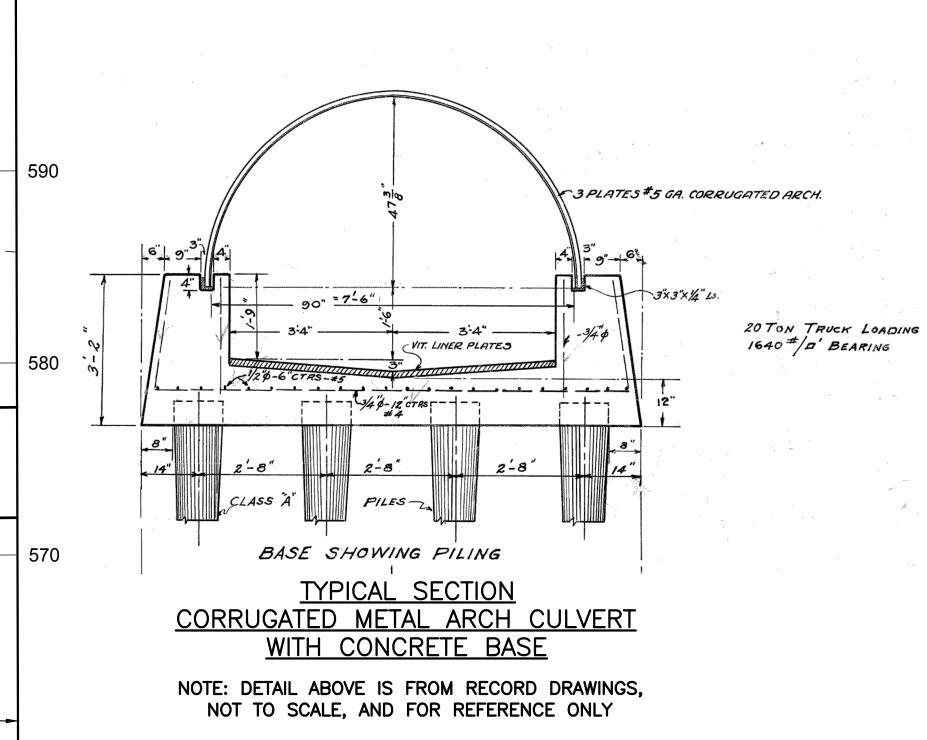


## **GENERAL NOTES:**

- 1. THE LOCATIONS OF THE CITED IMPROVEMENTS ARE APPROXIMATE AND BASED ON THE DISTANCES NOTED IN THE INSPECTION REPORTS. ALIGNMENT AND LENGTHS ARE BASED ON AVAILABLE GIS DATA. REPAIR LENGTHS ARE PROVIDED IN THE QUANTITY SUMMARY TABLE.
- 2. THE REPAIR SITE IS LOCATED IN AN ACTIVE COMBINED SEWER WHICH EXPERIENCES SIGNIFICANT INCREASE IN FLOW DURING WET WEATHER. REPAIR WORK SHALL BE PERFORMED ONLY DURING DRY WEATHER. THE CONTRACTOR SHALL HAVE PROVISIONS/PROCEDURES IN PLACE TO DISMANTLE OR PROTECT THE WORK DURING WET WEATHER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY INTERRUPTION OF, OR DAMAGE TO, THE WORK DUE TO WET WEATHER FLOWS.
- 3. THE CONTRACTOR IS REQUIRED TO BYPASS PUMP/CONTROL ANY DRY WEATHER FLOW IN THE SEWER AND/OR SIDE SEWER CONNECTIONS IN ACCORDANCE WITH SPECIFICATIONS. A WATER CONTROL PLAN SHALL BE SUBMITTED AT LEAST 30 DAYS PRIOR TO THE START OF WORK. THE APPROXIMATE PEAK DRY WEATHER FLOWRATE OF THE SEWER TO BE REPAIRED IS 0.01 MGD.

CROSS REFERENCE TABLE				
SHEET NO.	DESCRIPTION			
CE-023	SITE PLAN			
CE-024	PHOTOS & QUANTITY SUMMARY			
CE-025	MAINTENANCE OF TRAFFIC			
C-002	GEOPOLYMER LINER DETAILS			

MH DATA TABLE #				
POINT NO.	NORTHING	EASTING	DESCRIPTION	
1	676346.14	2195601.74	CENTER OF MH	



VERT. SCALE IN FEET

SHEET NO.:

**FJS** ©DLZ

600

590

580

570

560

0+00

└EX 69"X90"

CORRUGATED METAL ARCH

WITH CONCRETE BASE COMB

0+50

**Northeast Ohio** Regional Sewer District

1+00

\_EX 12" VCP

EX 12" VCP

EX 69"X90

LINE WITH GEOPOLYMER - 78 LF

CORRUGATED METAL ARCH

WITH CONCRETE BASE COMB

DESIGNED BY: SHEET CHK'D BY: CROSS CHK'D BY APPROVED BY:\_ ISSUED DATE: MARCH 2024 REV DATE ISSUED BY REMARKS

1+50

PROFILE VIEW

EXISTING GRADE

X 69"X90"

CORRUGATED METAL ARCH

WITH CONCRETE BASE COMB

LINE WITH GEOPOLYMER - 291 LF

2+00

2+50

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3+00

CSO/CULVERT-OUTFALL **INSPECTION AND REPAIR-1** 

PROJECT NO. 1642

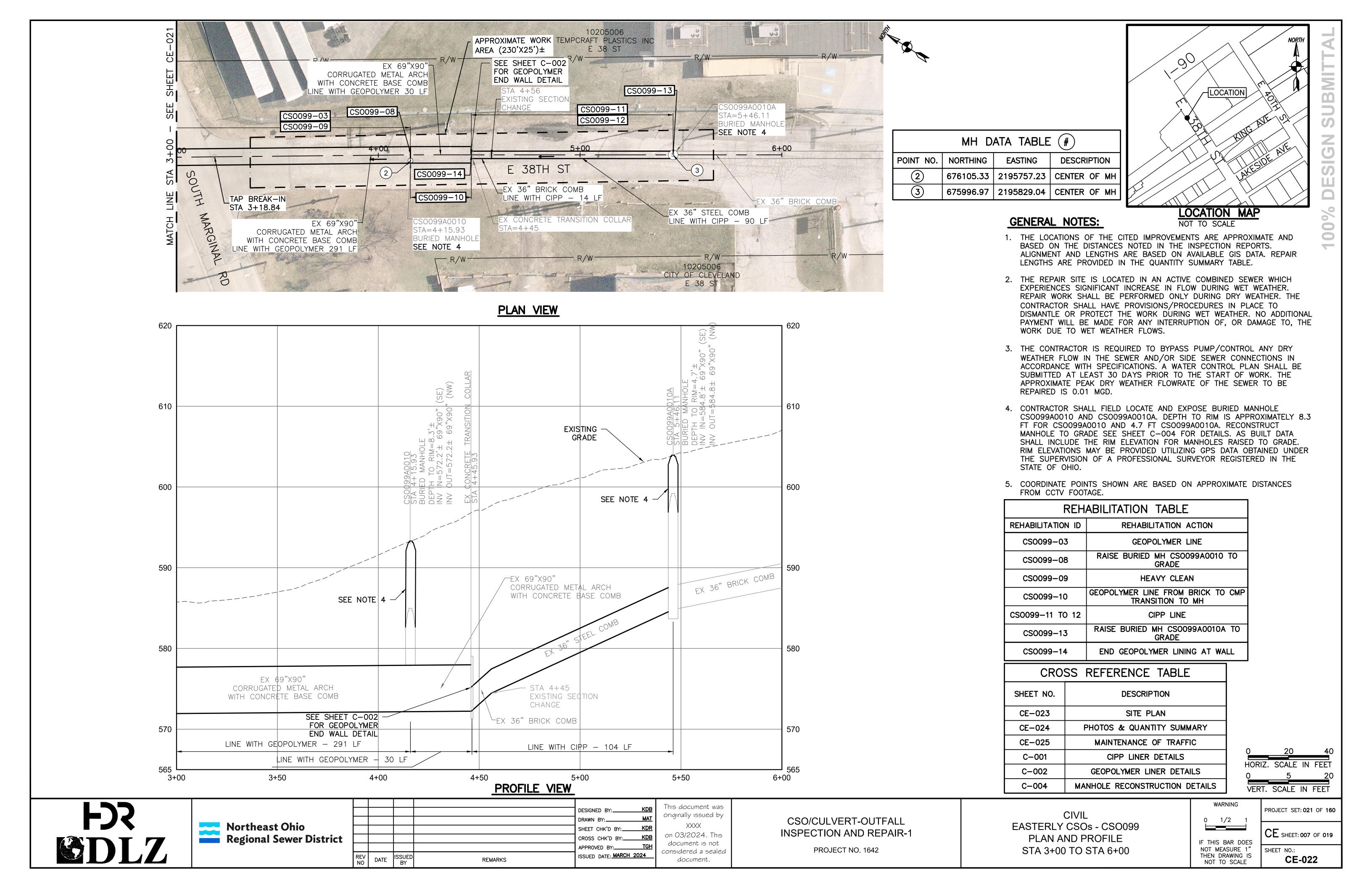
CIVIL EASTERLY CSOs - CSO099 PLAN AND PROFILE STA 0+00 TO STA 3+00

WARNING 0 1/2 

PROJECT SET: 020 OF 160 **CE** SHEET: **006** OF **019** 

**CE-021** 

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



and the second

MANHOLE

LEGEND

EXISTING SEWER PIPE

EXISTING CSO OR STORM PIPE

SPOT REPAIR

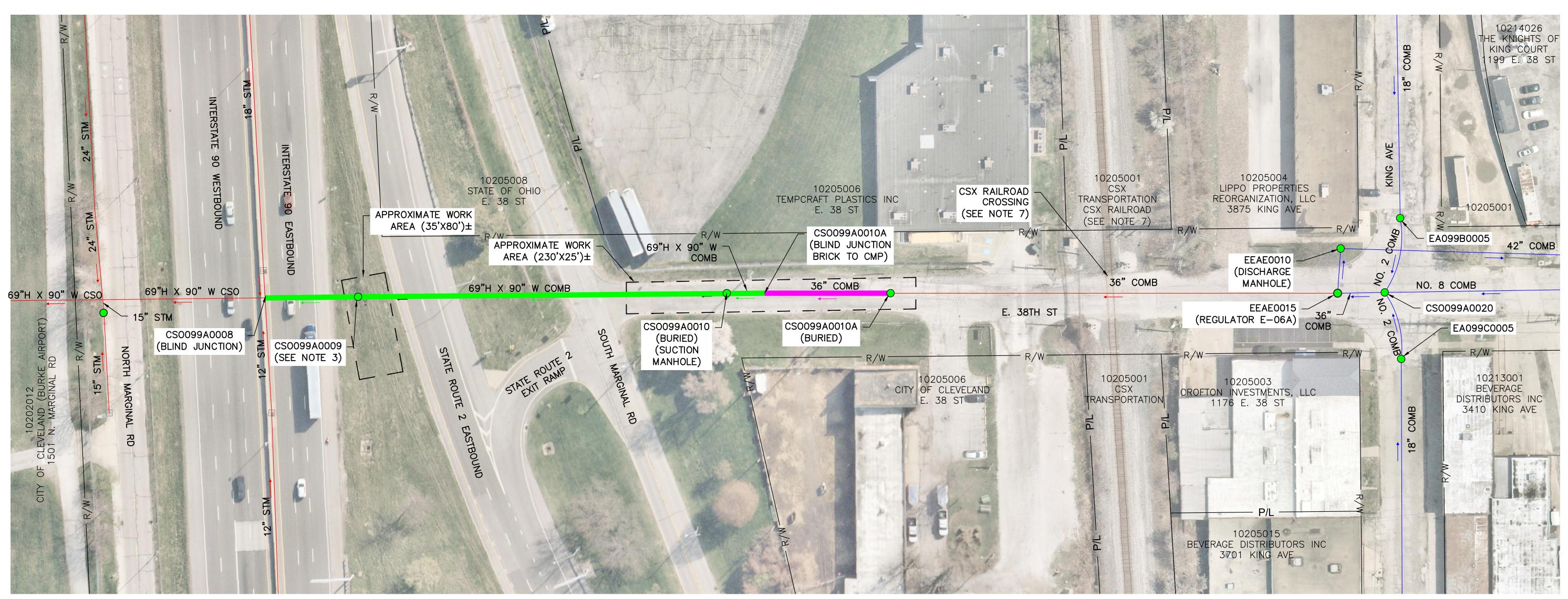
CIPP LINER

GEOPOLYMER LINER

PIPE REPLACEMENT

## **GENERAL NOTES:**

- 1. CONTRACTOR SHALL UTILIZE MANHOLES WITHIN THE RIGHT-OF-WAY AND KEEP WORK LIMITS WITHIN THE RIGHT-OF-WAY.
- 2. MANHOLES MAY BE BURIED. SEE PREVIOUS SHEETS.
- 3. ACCESS TO MH CS0099A0009 IS LOCATED WITHIN ODOT LIMITED ACCESS. REFERENCE ODOT 505 PERMIT FOR RESTRICTIONS.
- 4. SEE MOT SHEET FOR ROAD CLOSURE DETAILS.
- 5. THIS SITE PLAN IS PROVIDED FOR INFORMATION TO SHOW LOCATIONS FOR DISCHARGE OF CURE WATER FOR CIPP LINING.
- 6. CONTRACTOR SHALL NOT DISCHARGE OF CURE WATER TO EXISTING CSO PIPES THAT FLOW TO ENVIRONMENT.
- 7. CONTRACTOR SHALL COORDINATE WITH RAILROAD SCHEDULE FOR TEMPORARY DISCHARGE LINE ROUTING.
- 8. CONTRACTOR SHALL MAINTAIN INTERSECTIONS AND DRIVEWAYS WHERE BYPASS LINES CROSS WITH HOSE RAMPS.



0 40 8C HORIZ. SCALE IN FEET

FDR DLZ

Northeast Ohio
Regional Sewer District

DESIGNED BY: KD

DRAWN BY: MA

SHEET CHK'D BY: KD

CROSS CHK'D BY: KD

APPROVED BY: TG

REV NO DATE BY

REMARKS

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CSO/CULVERT-OUTFALL INSPECTION AND REPAIR-1

PROJECT NO. 1642

CIVIL EASTERLY CSOs - CSO099 SITE PLAN 0 1/2

PROJECT SET: 022 OF 160

CE SHEET: 008 OF 019

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NOT TO SCALE

CE SHEET: 008 OF 019

SHEET NO.:
CE-023









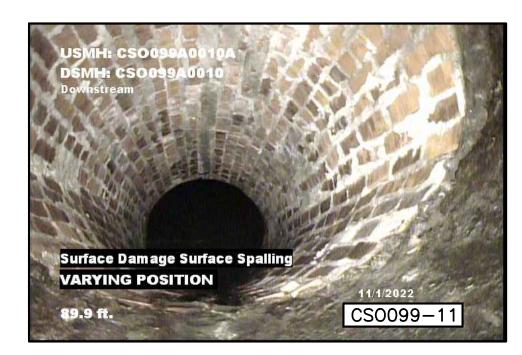










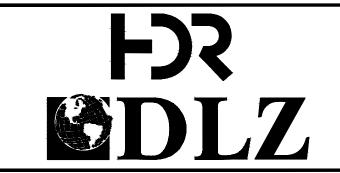








SHEET NO.	PHOTO REFERENCE	VIDEO DISTANCE BY ASSET ID	VIDEO DIRECTION	"CURED-IN-PLACE PIPE (CIPP) See Specifications"	"SPRAY-IN-PLACE GEOPOLYMER PIPE LINING See Specifications"	"SEWER CLEANING - OBSTRUCTION See Specifications"	"HEAVY CLEANING See Specifications"	SPECIAL REPAIR	COMMENTS
				LF	LF	EACH	CY	EACH	
		CSO099A0009-CSO099A0008							GEOPOLYMER SPRAY-IN-PLACE LINE. HEAVY CLEAN
CE-021	CSO099-01	0-78	DS		78				GEOPOLYMER LINE
CE-021	CSO099-02	0-78	DS				25		HEAVY CLEAN
		CSO099A0010-CSO099A0009							GEOPOLYMER SPRAY-IN-PLACE LINE. HEAVY CLEAN
CE-021	CSO099-03	0-291	US		291				GEOPOLYMER LINE
CE-021	CSO099-04	4	US			1			REMOVE OBSTRUCTION MANHOLE LID
CE-021	CSO099-05	6	US			1			REMOVE OBSTRUCTION TREE LIMB
CE-021	CSO099-06	69	US			1			REMOVE OBSTRUCTION MANHOLE RIM
CE-021	CSO099-07	143	US			1			REMOVE OBSTRUCTION TREE LIMB
CE-021	CSO099-09	0-291	US				70		HEAVY CLEAN
		TRANSITION-CSO099A0010							GEOPOLYMER SPRAY-IN-PLACE LINE
CE-022	CSO099-10	0-30	DS		30				GEOPOLYMER LINE FROM BRICK TO CMP TRANSITION TO MH
		CSO099A0010A-TRANSITION							CIPP LINE 36". NOTE SIGNIFICANT GRADE CHANGE DOWN AT 90'
CE-022	CSO099-08	291	US					1	RAISE BURIED MH CSO099A0010 TO GRADE
CE-022	CSO099-11 TO 12	0-104	DS	104					NOTE: USMH CSO099A0010A IS BURIED UNDER ASPHALT
CE-022	CSO099-13	104	DS					1	RAISE BURIED MH CSO099A0010A TO GRADE
SUBTOTAL				104	400	4	95	2	



Northeast Ohio Regional Sewer District

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CSO/CULVERT-OUTFALL **INSPECTION AND REPAIR-1** 

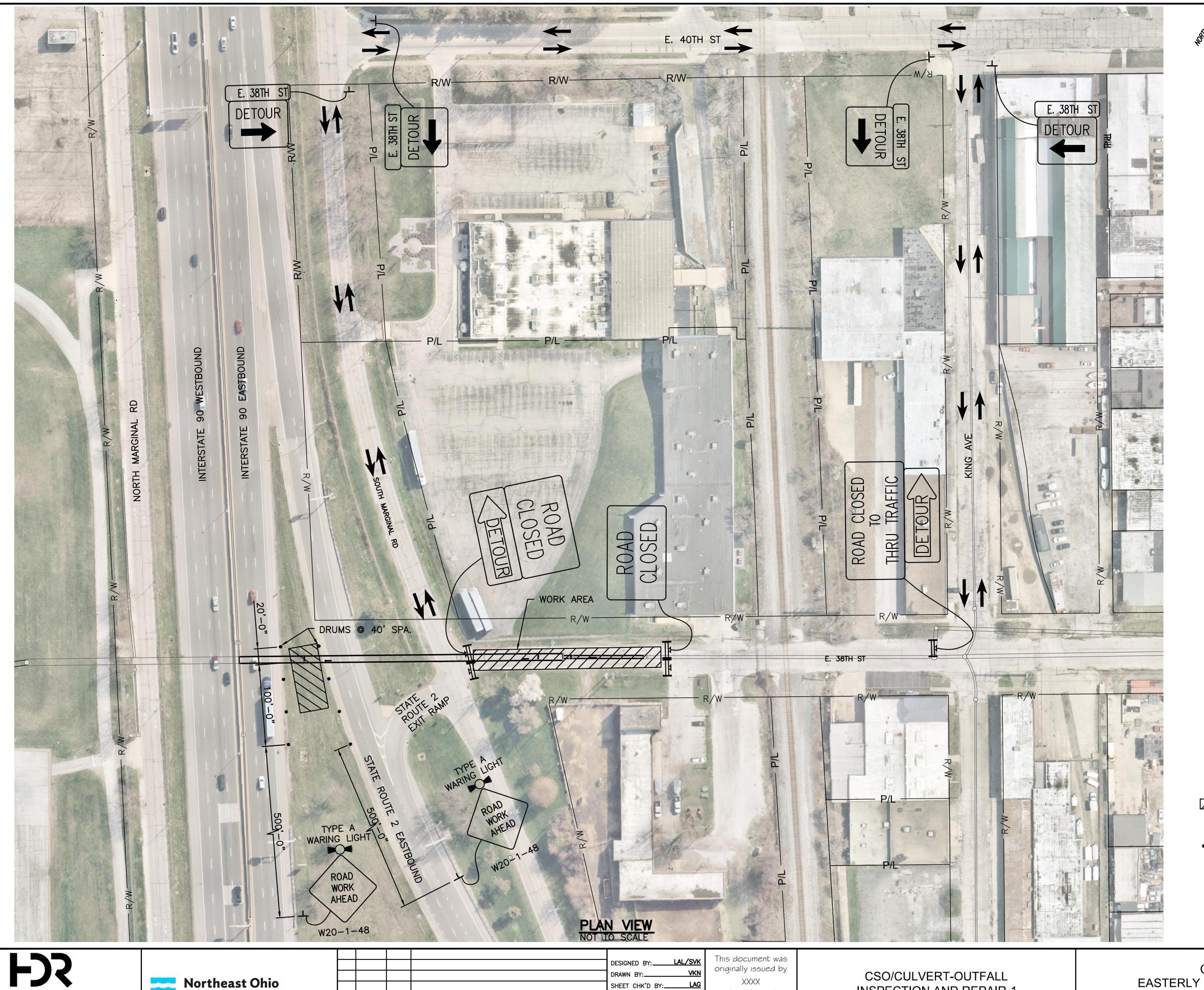
PROJECT NO. 1642

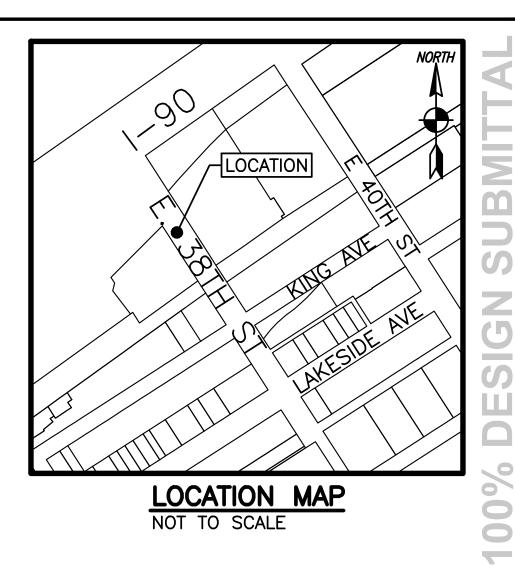
CIVIL EASTERLY CSOs - CSO099 PHOTOS & QUANTITY SUMMARY 0 1/2 1

PROJECT SET: 023 OF 160 CE SHEET: 009 OF 019 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SHEET NO.:

CE-024





## **GENERAL NOTES:**

- 1. MAINTENANCE OF TRAFFIC PLANS SHALL BE IN ACCORDANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT), CONSTRUCTION AND MATERIAL SPECIFICATIONS (CM&S), 2019, AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT
- 2. MINIMUM DISTANCE BETWEEN SIGNS AND DISTANCE IN ADVANCE OF CONSTRUCTION ACTIVITIES SHALL BE AS REQUIRED BY OMUTCD.
- 3. ALL TYPE III BARRICADES, "ROAD CLOSED AHEAD" AND "ROAD WORK AHEAD" SIGNS SHALL HAVE TYPE A FLASHING WARNING LIGHTS.
- 4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES THROUGHOUT CONSTRUCTION.
- 5. DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE OWNER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE OWNER, WILL NOT BE PERMITTED.
- 6. TO MINIMIZE TRAFFIC CONTROL DISTURBANCES, CONTRACTOR TO SUBMIT PHASING/STAGING SCHEDULE FOR APPROVAL PRIOR TO START OF CONSTRUCTION INCLUDING COORDINATION WITH THE OHIO DEPARTMENT OF TRANSPORTATION, FOR APPROVAL OF ACCESS PERMITS TO WORK WITHIN SR-2 AND I-90.

## LEGEND:

- TYPE III BARRICADE

— WORK ZONE (AREA OF CLOSURE)

- DETOUR ROUTE

• • • • - CONSTRUCTION DRUMS

→ WORK ZONE SIGN

PROPOSED WORK ZONE SIGN

Regional Sewer District

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**INSPECTION AND REPAIR-1** 

PROJECT NO. 1642

CIVIL EASTERLY CSOs - CSO099 MAINTENANCE OF TRAFFIC 0 1/2 

PROJECT SET: 024 OF 160

CE SHEET: 010 OF 019 IF THIS BAR DOES NOT MEASURE 1"
THEN DRAWING IS
NOT TO SCALE

SHEET NO.: **CE-025**