

Release for Construction (RFC)
Plans are Checked and Ready for Review

GCWW 42" TRANSMISSION MAIN RELOCATION

BRENT SPENCE BRIDGE BUILD UNIT UTL003

CONFLICT ID'S : OH-W-15,
OH-W-16, OH-W-17



Gresham
Smith



NIKHIL KARAN REDDY
THE ABOVE NAMED PROFESSIONAL SHALL BE
RESPONSIBLE FOR THE FOLLOWING SHEETS:
PLAN SHEETS
1-10, 21-27

Nikhil Karan Reddy
8/12/21

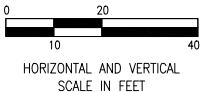
Jacobs



CRAIG M. KETRON
THE ABOVE NAMED PROFESSIONAL SHALL BE
RESPONSIBLE FOR THE FOLLOWING SHEETS:
PLAN SHEETS
11-20

Craig M. Ketron
8/12/21

25

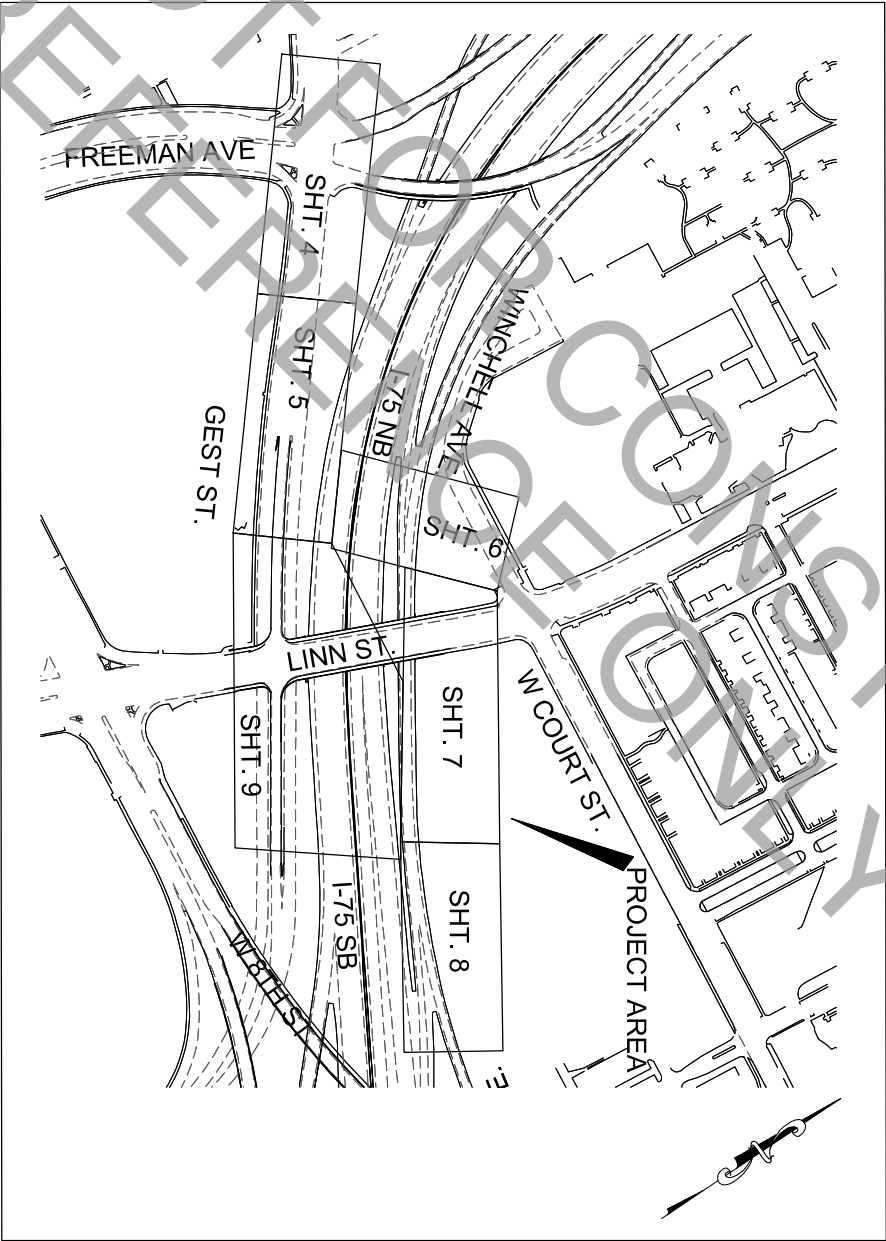


HORIZONTAL AND VERTICAL
SCALE IN FEET

REVISIONS		CALCULATED
		BK
		CHECKED
		NR

SYMBOLOLOGY LEGEND		
• BOX (WATER, GAS, UNKNOWN)	Ⓢ ELECTRIC CHAMBER MANHOLE	△ SURVEY TRAVERSE POINT
• WATER BOX (ROADWAY)	Ⓢ ELECTRIC PULL-BOX	○ PUBLIC BENCHMARK
• WATER METER PIT (FORD)	Ⓢ TRAFFIC CONTROL BOX	Ⓢ SURVEY MONUMENT
• WATER METER PIT (MONITOR)	Ⓢ TELEPHONE CHAMBER MANHOLE	Ⓢ SET CROSS NOTCH
• WATER VALVE BOX	Ⓢ UNKNOWN CHAMBER MANHOLE	Ⓢ SET WOOD HUB / SET PLASTIC STAKE
• WATER VALVE CHAMBER	Ⓢ GUY WIRE ANCHOR	• SET MAG NAIL
• FIRE HYDRANT	Ⓢ UTILITY POLE - LIGHT	• SET PIN
• GAS VALVE BOX (RECTANGULAR)	Ⓢ UTILITY POLE - ELECTRIC	• SET PIN W/ CAP
• GAS DRIP BOX	Ⓢ UTILITY POLE - ELECTRIC (UNDERGROUND)	• SET PIN W/ CAP
• GAS VALVE BOX (CIRCULAR)	Ⓢ TELEPHONE BOOTH	• SET SPIKE
• SEWER MANHOLE	Ⓢ PARKING METER	• EX CROSS NOTCH
• SEWER CLEAN-OUT	Ⓢ MAIL BOX (RESIDENTIAL)	• EX WOOD HUB
• SINGLE GUTTER INLET	Ⓢ MAIL BOX	• EX MAG NAIL / NAIL
• DOUBLE GUTTER INLET	Ⓢ STREET SIGN	• EX PIN / PIN WITH CAP / PIPE
• CATCH BASIN (CIRCULAR)	Ⓢ POST / DOULAND	• EX SPIKE
• CATCH BASIN (RECTANGULAR)	Ⓢ HORIZONTAL DEFLECTION (ALIGNMENT)	
• CATCH BASIN (SQUARE)	Ⓢ VERTICAL DEFLECTION (ALIGNMENT)	
• SEWER CURB INLET (NO GRATE)		
• SEWER CURB INLET (NO GRATE) (MANHOLE)		

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LOCATION MAP

SCALE: 1" = 200'

Latitude 39° 06' 19" N
Longitude 84° 31' 47" W

1-800-362-2764
OHIO
Utilities Protection
SERVICE
Call Before You Dig

RELOCATED 42" WATERMAIN
APPROVED: WW004364 / 4-4131 / MF-16963

GCWW SUPERVISING ENGINEER - DESIGN

DATE

GCWW PRINCIPAL ENGINEER - SYSTEM FACILITIES

DATE

GCWW CHIEF ENGINEER

DATE



Ohio Environmental Protection Agency "Self-Certification"
letter required prior to the start of construction.

☐ OEPA CERTIFICATION EXEMPT

☐ NON - EXEMPT

OEPA REVIEW DATE

GENERAL PROVISIONS

CONTRACT SPECIFICATIONS
THE CONTRACTOR IS ADVISED THAT THERE ARE SEVERAL CHANGES TO THE MOST RECENT EDITION OF THE CITY OF CINCINNATI SUPPLEMENT DATED JANUARY 1, 2023. THE SUPPLEMENT AND A SUMMARY OF CHANGES CAN BE PURCHASED OR DOWNLOADED FROM THE CITY'S WEBSITE: [HTTPS://WWW.CINCINNATI-OH.GOV/ODOT/PERMITS-LICENSES/ODOT-SPECIFICATIONS-AND-CERTIFICATION/2023-CITY-SUPPLEMENT-1-TO-ODOT/](https://www.cincinnati-oh.gov/odot/permits-licenses/odot-specifications-and-certification/2023-city-supplement-1-to-odot/).

WATER MAIN ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS, DATED JANUARY 1, 2023, AND MODIFIED BY THE CITY OF CINCINNATI SUPPLEMENT TO SAID STATE OF OHIO SPECIFICATIONS, EFFECTIVE JANUARY 1, 2023, AND ANY SUPPLEMENTS OR CHANGES THERE TO. COMES OF THE STATE SPECIFICATIONS ARE ON FILE AT THE OFFICE OF THE CITY ENGINEER. THE CITY ENGINEER'S OFFICE IS LOCATED AT 23 SOUTH FRONT STREET, COLUMBUS, OHIO 43260. THE CITY ENGINEER OF THE CITY OF CINCINNATI OFFICE SUBMITTAL IS REQUIRED FOR THIS PROJECT IMPLIES THAT THE CONTRACTOR HAS TAKEN ALL PROVISIONS OF THE SUPPLEMENT INTO ACCOUNT.

WATER MAIN ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CINCINNATI, DEPARTMENT OF PURCHASING, STANDARD SPECIFICATION NO. 4-11-24 TITLED SUPPLEMENTAL CONDITIONS - HEAVY CONSTRUCTION WORK.

EXISTING UTILITIES
THE CONTRACTOR IS ADVISED THAT HE HAS CERTAIN RESPONSIBILITIES UNDER SECTION 153.84 OF THE OHIO REVISED CODE, FOR ALL UNDERGROUND UTILITIES. CONTACT THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-6784 (TOLL FREE), (STORMWATER MANAGEMENT UTILITY (SMU) AT 1-513-581-8950, AND TRAFFIC ENGINEERING DIVISION AT 1-513-382-8229 46 HOURS IN ADVANCE OF WORK.

THE CONTRACTOR IS ADVISED THAT ALL UTILITY INFORMATION HAS BEEN SHOWN ON THE CONTRACT PLANS FROM INFORMATION PROVIDED BY THE OWNER OF EACH UTILITY IN COMPLIANCE WITH SEC. 153.84 OF THE OHIO REVISED CODE. IN CASES WHERE UTILITY INFORMATION IS INCORRECT AND IT RESULTS IN A CHANGE IN THE CONTRACT PLANS THE CONTRACTOR SHALL FIRST NOTIFY THE OWNER OF THE UTILITY TO DETERMINE THE NECESSARY COURSE OF ACTION. THE CONTRACTOR SHALL SUBMIT ANY SUGGESTED CLAIMS AS A RESULT OF OVERTIME OR ADDITIONAL WORK TO THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY UTILITY OTHER THAN THOSE AS A RESULT OF INCORRECT WATER MAIN AND RELATED APPURTENANCE INFORMATION.

ITEM 1120, "EXPLORATORY EXCAVATION" SHALL NOT INCLUDE EXCAVATIONS WITHIN THE LIMITS OF THE PROPOSED TRENCHES DEFINED IN 100.04 AND 100.05, BUT WILL BE CHARGED BY THE GCWM INSPECTOR. TEST HOLES ARE REQUIRED TO BE 12 INCHES IN DEPTH. TESTS SHALL BE CONDUCTED WITHIN THE TRENCH. THE DEPTH OF THE PROPOSED TRENCH ARE INCLUDED IN THE CONTRACTORS UNIT BID. ITEM 101, LOCATIONS TO BE EXPLORED WILL VARY FROM AREAS WITHIN THE ROADWAY TO AREAS OUTSIDE OF THE ROADWAY.

THE CONTRACTOR MUST LOCATE OR "POI-HOLE" ALL UTILITIES WITHIN THE ALIGNMENT OF THE PROPOSED MAIN A TRENCH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPOSED EXCAVATION OF THE MAIN TO A MINIMUM OF 60 FEET (18.3M) IN ADVANCE OF PIPE LAYING TO ASSURE PROPER CLEARANCE BETWEEN THE MAIN AND ANY ADJACENT UTILITY CROSSING OR UNDERGROUND STRUCTURE. ALL UTILITIES AND STRUCTURES SHALL BE SUITABLY BRACED AND SUPPORTED. THE CONTRACTOR SHALL UNDERSTAND THAT ANY RESTRICTIONS ENCOUNTERED IN THE INSTALLATION OF THE MAIN, DUE TO THE FAILURE OF HAVING 60 FEET (18.3M) OF TRENCH EXCAVATED AHEAD OF LAYING OPERATIONS, MAY REQUIRE REMOVAL AND RELAYING OF THE PIPE AT THE AT THE CONTRACTORS EXPENSE. THE GCWM WILL NOT ACCEPT A CLAIM FOR DIFFERENT UTILITY CONDITIONS ENCOUNTERED WHEN TEST HOLES ARE NOT PERFORMED AS REQUIRED.

THE CONTRACTOR IS REQUIRED TO EXCAVATE AND EXPOSE THE EXISTING UTILITIES AND EXISTING WATER MAINS ALONG THE LINE OF THE PROPOSED WATER MAIN AND ALL PROPOSED CONNECTION POINTS TO VERIFY LOCATION, DIAMETER, LINE AND GRADE. ALSO, IF THE REMOVAL OF THE BULKHEAD OR PLUG IS REQUIRED ALL EXCAVATION AND TEMPORARY/PERMANENT RESTORATION SHALL BE COMPENSATED UNDER THE CONTRACTORS UNIT BID PRICE FOR ITEM 1101 FOR ASSOCIATED PIPING AND FITTINGS..

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ARRANGE FOR THE REMOVAL AND REPLACEMENT OF ANY POLES AND GUYS NECESSARY FOR THE INSTALLATION OF THE PROPOSED WATER MAINS, AND ANY COST CONNECTED THERETO SHALL BE AT HIS EXPENSE.

ALL GAS SERVICE BRANCHES HAVE A MINIMUM COVER OF 18 INCHES. ALL WATER SERVICE BRANCHES HAVE A MINIMUM COVER OF 3.0 FEET.

THE CONTRACTOR IS RESPONSIBLE FOR ALL PIPE SEWERS DISTURBED IN THE COMPLETION OF THIS PROJECT. IN THE EVENT IT BECOMES NECESSARY TO REPAIR OR REPLACE EXISTING PIPE SEWERS, THE CONTRACTOR MUST NOTIFY SEWER MAINTENANCE, 513-244-1389, BEFORE PROCEEDING WITH THE WORK.

IT IS THE NATURE OF CONSTRUCTION THAT UNMARKED UTILITIES OR UTILITIES NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED WITHIN THE EXCAVATION FOR THE PROPOSED WORK. THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND REMOVE ANY ABANDONED UTILITIES ENCOUNTERED IN THE EXCAVATION, UNLESS OTHERWISE NOTED ON THE PLANS, NO EXTRA PAYMENT WILL BE MADE FOR UP TO 10" DIAMETER, WIDTH OR DEPTH UTILITIES. TO THE CONTRACTOR FOR THE IDENTIFICATION AND REMOVAL OF THE ABANDON UTILITY. ALL COSTS SHALL BE INCLUDED IN THE CONTRACTORS UNIT PRICE BID FOR THE APPROPRIATE ITEM 1101 FOR ASSOCIATED PIPING AND FITTINGS.

MATERIAL SPECIFICATIONS
BEFORE ORDERING MATERIAL, THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN FIELD MEASUREMENTS AND FOR FIELD VERIFYING THE O.D. OF EXISTING WATER MAINS WHERE SLEEVES AND PIPE COUPLINGS ARE INVOLVED.

THE MATERIALS LISTED ARE ONLY SUGGESTED FOR USE DURING THE WATER MAIN AND BRANCH RELOCATION WORK AS PROPOSED ON THE DRAWINGS. THE CONTRACTOR SHALL FURNISH ADDITIONAL MATERIAL WHERE NEEDED. NO ALLOWANCE WILL BE MADE FOR UNUSED MATERIAL, NOR WILL ANY EXTRA PAYMENT BE MADE FOR ADDITIONAL SPECIALS REQUIRED TO COMPLETE THE WATER MAIN AND BRANCH LOCATION WORK.

ALL PIPE AND SPECIALS SHALL BE IN ACCORDANCE WITH CITY OF CINCINNATI SPECIFICATION 40-110-12.

ALL PROCURED WATER MAIN AND APPURTENANCE MATERIALS OTHER THAN THOSE FURNISHED THROUGH THE GCWM MUST BE PROPERLY CERTIFIED, CERTIFIED FOR GCWM INSPECTION, OR ALREADY INSPECTED BY THE GCWM. PIPE, FITTINGS, VALVES AND FIRE HYDRANTS MUST BE GCWM INSPECTED AND STAMPED MATERIALS.

ALL COPPER SERVICE PIPE SHALL BE TYPE "K" OF A STANDARD NOMINAL SIZE: 3/4", 1", 1-1/2" AND 2". ALL FITTINGS WILL HAVE COPPER FLARE TYPE CONNECTIONS AND SHALL BE IN ACCORDANCE WITH CITY OF CINCINNATI SPECIFICATION NO. 40-113-05.

MATERIAL SPECIFICATIONS (CONTINUED)
THE CONTRACTOR SHALL FURNISH THE NECESSARY CERTIFICATIONS FOR BRANCH MATERIAL.

THE CONTRACTOR SHOULD BE ADVISED THAT ALL FITTINGS (BENDS, OFFSET BENDS, TEES, CROSSES, SLEEVES, CAPS AND PLUGS) SUPPLIED FOR THIS JOB MAY BE EITHER ANSI/AWWA C-110 FULL-BODY DUCTILE IRON, CROMET LINED FITTINGS OR ANSI/AWWA C-153 COMPACT DUCTILE IRON, FUSION BONDED EPOXY COATED FITTINGS IN ACCORDANCE WITH CITY OF CINCINNATI, DEPARTMENT OF PURCHASING, STANDARD SPECIFICATION NO. 40-110-12 FOR PIPE AND FITTINGS WATER, DUCTILE IRON 3" TO 60". ALL FITTINGS ARE SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE GCWM INSPECTION PERSONNEL. MINOR PINHOLES AND ABRASIONS TO EPOXY COATED VALVES AND FITTINGS ARE TO BE REPAIRED USING 3M HOT MELT PATCH COMPOUNDS (H.M.P.C.) IN THE STICK FORM. REPAIR PROCEDURES SHALL BE IN ACCORDANCE WITH THE GENERAL APPLICATION STEPS IDENTIFIED FOR THE H.M.P.C. ALL REPAIRS TO EPOXY COATED FITTINGS ARE SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE GCWM INSPECTION PERSONNEL.

AIR COCKS MAY BE NECESSARY FOR THE PROPER OPERATION OF THE WATER SYSTEM. THE CHAMBER AND M.H.C. & C. REQUIRED FOR THE AIR COCK, WHICH MAY NOT BE SHOWN ON THE DRAWING, WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, IF REQUIRED BY THE GCWM.

THE CONTRACTOR IS ADVISED THAT ALL C.J. PLUGS ARE TO BE RESTRAINED WITH A FIELD LOCK GASKET AND ALL M.J. CAPS ARE TO BE RESTRAINED USING A M.J.R.G. ASSEMBLY. THIS INCLUDES TEMPORARY PLUGS AND CAPS FOR TESTING PURPOSES. WHEN A TEMPORARY PLUG IS USED, THE CONTRACTOR IS PERMITTED TO REMOVE THE PLUG BY CUTTING THE SECTION OF PIPE CONTAINING THE PLUG AND USING A SOLID SLEEVE AT THAT POINT TO COMPLETE THE TIE-IN. IN THE EVENT THAT A CAP IS USED, THE CONTRACTOR SHALL REMOVE THE M.J.R.G. ASSEMBLY AND CAP BEFORE COMPLETING THE TIE-IN.

THE CONTRACTOR IS ADVISED THAT IT SHALL BE NECESSARY TO INSTALL TEMPORARY PLUGS ON THE EXISTING AND PROPOSED WATER MAINS IN ORDER TO MAINTAIN SERVICE DURING TESTING AND WATER MAIN AND BRANCH CONNECTIONS. THESE TEMPORARY PLUGS SHALL BE FURNISHED BY THE CONTRACTOR. HE IS RESPONSIBLE FOR THEIR PROPER INSTALLATION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACTORS UNIT BID PRICE FOR THE APPROPRIATE ITEM 1101 FOR ASSOCIATED PIPING AND FITTINGS.

ALL REJECTED MATERIAL, INCLUDING PIPE AND FITTINGS, SHALL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

SYSTEM CONDITIONS

THE CONTRACTOR IS ADVISED THAT THE OPERATING PRESSURE OF THE EXISTING WATER MAIN WITHIN THE LIMITS OF THE SUBJECT PROJECT IS APPROXIMATELY **65 TO 75 P.S.I. WITH 80 P.S.I. MAX.**

IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADEQUATE WATER SUPPLY FOR DOMESTIC AND FIRE FIGHTING PURPOSES. IN ORDER TO ACCOMPLISH THE WATER MAIN CONNECTIONS WITH A MINIMUM AMOUNT OF INCONVENIENCE TO THE CONSUMERS, IT MAY BE NECESSARY TO DO THE WORK AT OTHER THAN NORMAL WORKING HOURS OR AS MAY BE SCHEDULED BY THE GCWM. CONTRACTOR TO COORDINATE WITH GCWM INSPECTOR (MIKE LAWSON 513-376-0819) FOR WORK OCCURRING OUTSIDE NORMAL HOURS.

THE 36" TRANSMISSION MAIN SHALL REMAIN IN SERVICE THROUGHOUT THIS PROJECT UNTIL THE FINAL TIE-INS ARE READY TO BE MADE. THIS INCLUDES THE ENTIRE SECTION OF THE 36" MAIN THAT RUNS ON GUEST STREET FROM THE INTERSECTION OF GUEST STREET AND FREEMAN AVE. THEN UNDER I75, TO THE 42"x42" TEE SOUTH OF THE INTERSECTION OF CUTLER STREET AND COURT STREET.

THE SHUTDOWN FOR THE FINAL TIE-INS SHALL OCCUR BETWEEN NOVEMBER 1ST AND MARCH 31ST. SHUTDOWNS OUTSIDE OF THIS WINDOW WILL NOT BE GRANTED.

BOTH TIE-INS SHALL BE DONE DURING THE SAME SHUTDOWN. THE TOTAL LENGTH OF THIS SHUTDOWN SHALL BE NO MORE THAN 72 HOURS. THIS IS THE LENGTH OF TIME THE CONTRACTOR HAS TO PERFORM THE WORK INCLUDING DRAIN TIME. THIS TIMEFRAME STARTS WHEN GCWM COMPLETES TURNING THE LAST VALVE FOR THE SHUTDOWN.

THE CONTRACTOR SHALL HAVE NINE (9) CREWS AND EQUIPMENT PLANNED FOR CONTINUOUS WORK 24 HOURS PER DAY DURING THE SHUTDOWN. ALL MATERIALS AND EQUIPMENT MUST BE ON SITE AND AVAILABLE FOR GCWM INSPECTION. A MINIMUM OF 2 DAYS BEFORE STARTING THE WORK.

IN THE EVENT OF A WATER EMERGENCY IN THE GCWM DISTRIBUTION SYSTEM DURING THE SHUTDOWN, GCWM MAY REQUIRE THE CONTRACTOR TO STOP WORKING ON THE TIE-IN AND INSTALL A CAP ON THE LINE COMING OUT OF THE 42"x42" TEE. THE OBJECTIVE WILL BE TO RETURN SERVICE IMMEDIATELY TO THE 42" LINE THAT RUNS UP CUTTER STREET. THE CONTRACTOR IS REQUIRED TO HAVE ALL MATERIALS AND EQUIPMENT ON SITE TO ACCOMMODATE THIS IN THE EVENT OF SUCH AN EMERGENCY. THIS WORK SHALL BE COMPLETED WITHIN 6 HOURS UPON NOTICE OF SUCH AN EMERGENCY. MATERIALS AND EQUIPMENT FOR SUCH AN EMERGENCY SHALL BE INCLUDED IN THE BASE BID. LABOR SHALL BE PAID VIA FORCE ACCOUNT PROCEDURES.

FOR PROJECTS WITHIN CITY OF CINCINNATI LIMITS, UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS, ALL REMOVED STRUCTURES LOCATED IN THE PAVEMENT SHALL BE REMOVED TO SIX FEET (6') BELOW THE GROUND SURFACE. ALL REMOVED STRUCTURES LOCATED IN THE SIDEWALK SHALL BE REMOVED TO THREE FEET (3') BELOW THE GROUND SURFACE. THE REMAINING VOID SHALL BE BACKFILLED WITH COT. SIDEWALK AND DRIVEWAY MUST BE REPLACED JOINT TO JOINT. COMPENSATION SHALL BE MADE UNDER **PAY ITEM 1122, "REMOVE EXISTING MANHOLE CURBS & COVERS"**.

TEST BORINGS ALONG THE ALIGNMENT OF THE PROPOSED 42" INCH WATER MAIN WERE TAKEN BY **NEAS IN 2022, HCN 2010, AND HISTORICAL BORING LOGS 1979**. THE CONTRACTOR IS ADVISED THAT THE LOCATION OF THESE TEST BORINGS WERE RANDOMLY SELECTED AND MAY NOT BE TYPICAL OF THE UNDERGROUND CONDITIONS THROUGHOUT THE ENTIRE PROJECT.

THE CONTRACTOR IS ADVISED THAT DUE TO THE ALIGNMENT OF THE PROPOSED WATER MAIN, IT MAY BE NECESSARY TO INSTALL A TEMPORARY VALVE BOX OVER AN EXISTING CHAMBERED VALVE THAT MUST REMAIN IN SERVICE DURING THE WATER MAIN INSTALLATION AS DIRECTED BY THE GCWM INSPECTOR. THE CHAMBER SHALL BE ABANDONED. A VALVE BOX FURNISHED BY THE CONTRACTOR PLACED OVER THE VALVE AND UPON PROJECT COMPLETION, THE VALVE BOX MUST BE REMOVED. THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR THIS WORK, BUT SHOULD INCLUDE THE COST OF THIS WORK IN HIS UNIT BID PRICE FOR ITEM 1101 FOR ASSOCIATED PIPING AND FITTINGS.

CONTRACTOR TO NOTIFY CINCINNATI RECREATION COMMISSION AND COORDINATE PRIOR TO WORK COMMENCING IN PARK AND BALLFIELD AREA. CONTACT DANIEL JONES 513-351-1045

HYDROSTATIC TESTING

ALL PROPOSED WATER MAINS WILL BE HYDROSTATICALLY TESTED FOR LEAKAGE IN ACCORDANCE WITH 1101.054, "HYDROSTATIC TEST FOR LEAKAGE" OF THE APPROPRIATE ITEM 1101 FOR ASSOCIATED PIPING AND FITTINGS.

BEGIN THE HYDROSTATIC TEST WITHIN 48 HOURS OF COMPLETION OF THE FILLING OPERATION. PRIOR TO THE HIGH CL2 READING, SUPPLY THE WATER FOR THE LEAKAGE TEST THROUGH THE ORIGINAL SOURCE POINT. PUMP THE WATER TO A PRESSURE 50 PSI OVER THE WORKING PRESSURE. MAINTAIN THE TEST PRESSURE FOR A TWO-HOUR TEST PERIOD WITH LEAKAGE NOT EXCEEDING THE MAXIMUM ALLOWABLE. IN THE EVENT THAT LEAKAGE WITHIN THE MAXIMUM ALLOWABLE CANNOT BE MAINTAINED, LOCATE AND ELIMINATE SOURCES OF WATER LOSS. FURNISH ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY FOR THIS WORK. INCLUDE THE COST IN THE CONTRACT PRICE BID FOR THE APPROPRIATE ITEM 1101.

THE CONTRACTOR WILL BE RESPONSIBLE FOR FILLING, FLUSHING, AND PRESSURE TESTING NEW WATER MAINS 20" OR SMALLER. THE CONTRACTOR WILL PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT INCLUDING THE NECESSARY PUMPS TO APPLY THE PRESSURE TEST. THE WATER WORKS WILL PROVIDE THE NECESSARY METER AND GAUGE. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACTORS UNIT BID PRICE FOR ITEM 1101, "FURNISHING & LAYING DUCTILE IRON PIPE AND FITTINGS". ONCE THE FILLING AND PRESSURE TESTING ARE COMPLETED, THE CONTRACTOR WILL BE RESPONSIBLE FOR FLUSHING THE PROPOSED WATER MAIN AND THE GCWM WILL BE RESPONSIBLE FOR BACTERIA SAMPLING. THE GCWM WILL BE RESPONSIBLE FOR FILLING, PRESSURE TESTING AND FLUSHING NEW WATER MAINS GREATER THAN 20".

A. MECHANICAL JOINT RESTRAIN GLAND (MJRG):
ALL MECHANICAL JOINT RESTRAINT GLANDS FURNISHED BY THE CONTRACTOR SHALL BE ANY OF THE FOLLOWING:

- EBAA-MGALUG
- TYLER/JUN-GALUG
- STAR-STARGRP
- FORD-JUN-FLANGE SERIES 1400

ALL PRODUCTS SHALL BE DOMESTICALLY MANUFACTURED.

B. SERVICE PIPE IN CORROSIVE SOILS:

SERVICE TUBING IS TO BE SOFT "K" COPPER MANUFACTURED TO THE REQUIREMENTS OF ASTM B888. SERVICE TUBING COATING SHALL HAVE "NOVA" POLYETHYLENE LDOPE EXTRUSION RESIN PP-2118+ COATING TO MEET A MINIMUM OF .026 MIL THICKNESS CONTAINING UV INHIBITORS. SERVICE TUBING SHALL HAVE IDENTIFICATION AND TRACEABILITY ON BOTH COPPER AND PLASTIC CONTINUOUSLY LINE-MARKED WITH TUBE CONTENTS, ASTM SPECIFICATIONS, SIZE, AND DESIGNATED FOOTAGE. UNIQUE LOT NUMBER PRINTED ON BOTH COPPER AND PLASTIC TUBING ALLOWING PRODUCT TO BE TRACED BACK TO ORIGIN AND TIME OF MANUFACTURING. SERVICE TUBING SHALL BE AQUA SHIELD AS MANUFACTURED BY KAMICO PRODUCTS INC. OR APPROVED EQUAL.

C. CLOW-LEAD BRASS MATERIAL REQUIREMENTS:

ALL COMPONENTS IN CONTACT WITH WATER SHALL BE FABRICATED FROM 58BLOY II OR FEDERALLOY 1438 ALLOYS OR A MATERIAL APPROVED BY THE ENGINEER.

ALL COMPONENTS THAT DO NOT COME IN CONTACT WITH WATER SHALL COMPLY WITH THE REQUIREMENTS OF ASTM B 62 COPPER ALLOY NUMBER.

COATED OR WASHED METALS ARE NOT ACCEPTABLE IF THEN LEAD LEVELS EXCEED .25% BY WEIGHT PRIOR TO THE COATING OR WASHING PROCESS.

ALL SERVICE FITTINGS AND MATERIALS SHALL BE CERTIFIED AS SUITABLE FOR CONTACT WITH DRINKING WATER BY AN ACCREDITED CERTIFICATION ORGANIZATION IN ACCORDANCE WITH ANSINSE STANDARD 61, "DRINKING WATER SYSTEMS COMPONENTS-HEALTH EFFECTS".

ALL SERVICE FITTINGS SHALL EITHER BE STAMPED OR EMBOSSED WITH THE LETTERS "N.L." TO INDICATE "NO LEAD" OR MARKED TO INDICATE THAT THE PRODUCT IS MANUFACTURED FROM THE LOW-LEAD ALLOYS.

D. VALVES FURNISHED BY THE CONTRACTOR NOTE:

VALVES FURNISHED BY THE CONTRACTOR SHALL BE: U.S. PIPE METROSEAL GATE VALVE, KENNEDY VALVE KEN SEAL II RESILIENT GATE VALVE, CLOW F-6100 SERIES RESILIENT WEDGE GATE VALVE, MUELLER 2860 RESILIENT WEDGE GATE VALVE, AND AMERICAN RESILIENT WEDGE GATE VALVES SERIES 2900. (REV. 02-25-2015)

E. VALVE BOX NOTE:

ALL VALVE AND AIR RELEASE BOX ASSEMBLIES SHALL BE DOMESTICALLY MANUFACTURED.

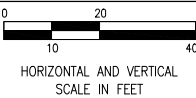
ALL BOX ASSEMBLIES FOR 12" INCH AND SMALLER GATE VALVES AND 1" INCH AIR RELEASES SHALL BE EITHER TYLER/JUN SERIES 6650, EJ SERIES 6500, OR BINGHAM & TAYLOR SERIES 4905. OR GCWM APPROVED EQUAL. BOX ASSEMBLIES FOR THESE APPLICATIONS REQUIRE A FROST PLUG AND BOXLOCK.

ALL BOX ASSEMBLIES FOR 16" INCH AND ABOVE BUTTERFLY OR GATE VALVES AND 2" INCH AIR RELEASES SHALL BE EJ SERIES 4900 OR GCWM APPROVED EQUAL. BOX ASSEMBLIES FOR THESE APPLICATIONS REQUIRE A FROST PLUG.

ALL COSTS ASSOCIATED WITH ADHERENCE TO THESE REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTORS UNIT BID PRICE FOR ITEM 1116- FURNISHING AND INSTALLING VALVE BOX COMPLETE.

F. POLYETHYLENE FLATTENED TUBES

POLYETHYLENE FLATTENED TUBES SHALL BE 4 MIL THICK, CROSS-LAMINATE, AND SHALL BE SIZED PER THE SPECIFICATIONS OUTLINED IN THE CURRENT EDITION OF THE INSTALLATION GUIDE FOR DUCTILE IRON PIPE. PUBLISHED BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA). IF A SPECIFIED TUBE SIZE IS NOT AVAILABLE, THE NEXT LARGER SIZE SHALL BE SPECIFIED.



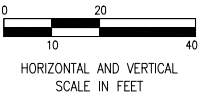
REVISIONS		CALCULATED
		BK
		CHECKED
		NR

GENERAL PROVISIONS

4-4131
WW004364
MF-16963

QUANTITIES						
SHEET NUM.	ITEM	ITEM	ITEM DOT	GRAND TOTAL	UNIT	DESCRIPTION
	GCWW	DOT	EXT			
						FURNISHED BY CONTRACTOR
1925	1101	638	98600	1925	FT	42" AWWA C301 PRESTRESSED CONCRETE LINED CYLINDER PIPE (GCWW CL II 579 LB/LF 20L)
4	1101	638	98600	4	EACH	42" MECHANICAL JOINT RESTRAINT GLANDS (MARG)
1	1101	638	98600	1	EACH	42"x36" GSK CONCENTRIC REDUCER
10	1101	638	98000	10	EACH	42"- 05 TO 22.5 DEGREE ELBOW
2	1101	638	98000	2	EACH	42"- 23 TO 46 DEGREE ELBOW
4	1101	638	98000	4	EACH	42"- 46 TO 67.5 DEGREE ELBOW
19	1101	638	98000	19	EACH	42" GSK X CL D FLANGE ADAPTER
16	1101	638	98000	16	EACH	42" RAISED MORTAR COATING SKID
113	1101	638	98000	113	EACH	42" SNAP RING RESTRAINED JOINT
2	1101	638	98000	2	EACH	42" FOLLOWER RING CLOSURE W/DOUBLE SPIGOT ADAPTER
2	1101	638	98000	2	EACH	42" DISHED TEST BULKHEAD
6	1101	638	98000	6	EACH	42"x2" THD OUTLET
2	1101	638	98000	2	EACH	42"x 24" CL D FLG TEE W/24" CL D BLIND FLANGE CL 290E ANSI B16.1 129# FLG W/129# DRILLING*
1	1101	638	98000	1	EACH	42"x16" MJB OUTLET
50	1101	638	98600	50	FT	36" AWWA C301 PRESTRESSED CONCRETE LINED CYLINDER PIPE (GCWW CL II 447 LB/LF 20L)
3	1101	638	98000	3	EACH	36" 23 TO 46 DEGREE ELBOW
5	1101	638	98000	5	EACH	36" SNAP RING RESTRAINED JOINT
1	1101	638	98000	1	EACH	36" FOLLOWER RING CLOSURE W/DOUBLE SPIGOT ADAPTER
4	1101	638	98000	4	EACH	36" DISHED TEST BULKHEAD
4	1101	638	11610	4	EACH	16" DUCTILE IRON PIPE C.I. 7H CL 55 20' LENGTH
4	1101	638	11610	4	EACH	16" WIDE POLYETHYLENE TUBE 16" WID X 20' LONG, 4 MIL CROSS LAMINATE
1	1101	638	11610	1	EACH	1 1/2" WIDE POLYETHYLENE TAPE WITH ADHESIVE (100' ROLL)
2	1101	638	98000	2	EACH	24" FLANGE TYTE RUBBER GASKET
1	1101	638	20632	1	EACH	16" TEE, 3 M.J.
8	1101	638	11610	8	EACH	16" MECHANICAL JOINT RESTRAINT GLANDS (MARG)
2	1101	638	98000	2	EACH	16" TRANSITION COUPLINGS
1	1101	638	98000	1	EACH	16" FIELD LOK GASKET
365	1108	638	7334	365	FT	60" O.D. STEEL CASING, 7/16" PL TH
4	1116	638	20498	4	EACH	VALVE BOX COMPLETE, IRON
4	1116	638	20498	4	EACH	VALVE FROST PLUG
4	1116	638	20498	4	EACH	VALVE BOX BOXLOK
118	1101	638	98000	118	EACH	VALVE BOX BOXLOK
118	1101	638	98000	118	EACH	3/8" X 4 1/2" STUD BOLT
118	1101	638	98000	118	EACH	3/8" COURSE HEAVY HEX NUT
10	1120	203	10000	10	CY	EXPLORATORY EXCAVATION
						AIR RELEASE
7	1116	638	7608	7	EACH	VALVE BOX COMPLETE, IRON
7	1116	638	7608	7	EACH	VALVE BOX FROST PLUG
7	1116	638	7608	7	EACH	VALVE BOX BOXLOK
35	1126	638	5100	35	FT	2" FERRULE
7	1126	638	5100	7	EACH	2" COPPER SERVICE PIPE
						2" X 1 1/2" X 2' BLOW OFF BALL VALVE ASSEMBLY
						FURNISHED BY GCWW
2	1101	638	20628	2	EACH	16" BUTTERFLY VALVE, M.J. CL 250B ANSI B16.1 125# FLG W/125# DRILLING*
2	1101	638	98000	2	EACH	42" BUTTERFLY VALVE, M.J. CL 250B ANSI B16.1 125# FLG W/129# DRILLING*
						REMOVAL
4	1122	202	58000	4	EACH	MANHOLE REMOVED, MHC & C
1		202	98100	1	EACH	REMOVAL MISC.: 36" GATE VALVE
1690		202	35200	1690	FT	PIPE REMOVED, OVER 24" DIAMETER, 36" WATER MAIN
20	1110	202	35100	20	FT	PIPE REMOVED, 24" DIAMETER AND UNDER, 16" WATER MAIN
20	202	202	35100	20	FT	PIPE REMOVED, 24" DIAMETER AND UNDER, 18" SANITARY SEWER
1	202	202	98000	1	FT	REMOVAL MISC.: SANITARY SEWER LATERALS
10	202	202	98200	10	FT	REMOVAL MISC.: STREET CAR BASE AND RAIL
1	202	202	11000	1	LUMP SUM	STRUCTURE REMOVED, RAMP WALL, SIGN, AND POLE AS PER PLAN
180	1101	202	75200	180	FT	FENCE REMOVED FOR REUSE, CHAIN LINK (BASEBALL FIELD)
1	1101	202	98000	1	LUMP SUM	REMOVAL MISC.: SPRINKLER SYSTEM
80	1101	202	75200	80	FT	FENCE REMOVED FOR REUSE, METAL
						ABANDON
95	1121			95	CY	36" WATER MAIN (SEAL, FILL, & ABANDON)

QUANTITIES						
SHEET NUM.	ITEM	ITEM	ITEM DOT	GRAND TOTAL	UNIT	DESCRIPTION
	GCWW	DOT	EXT			
						MAINTENANCE OF TRAFFIC
20	614	11110	20	20	LS	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
1	614	12420	1	1	LS	DETOUR SIGNING
2	614	12760	2	2	EACH	SPECIAL FLASHING ARROW PANEL
15	614	13310	15	15	EACH	BARRIER REFLECTOR, TYPE 1, 11" WAY
0.12	614	20110	0.12	0.12	MILE	WORK ZONE LANE LINE, CLASS I, 6" 642 PAINT
0.06	614	21100	0.06	0.06	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT
0.62	614	22100	0.62	0.62	MILE	WORK ZONE EDGE LINE, CLASS I, 6" 642 PAINT
715	614	23210	715	715	FT	WORK ZONE CANCELIZING LINE, CLASS I, 6" 642 PAINT
160	614	24208	160	160	FT	WORK ZONE DOTTED LINE, CLASS I, 12" 642 PAINT
3	614	30200	3	3	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT
640	622	4111	640	640	FT	PORTABLE BARRIER, UNANCHORED, AS PER PLAN
						MISCELLANEOUS
1	614	11000	1	1	LS	MAINTAINING TRAFFIC
						RESTORATION
660	208	2000	660	660	CY	EMBANKMENT
150	301	56000	150	150	CY	ASPHALT CONCRETE BASE, PG64-22
150	304	2000	150	150	CY	AGGREGATE BASE
105	441	3000	105	105	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (44B), PG64-22
156	608	12000	156	156	SF	CONFERRAMS AND EXCAVATION BRACING
28	609	10000	28	28	FT	5" CONCRETE WALK
1300	613	1420	1300	1300	CY	ASPHALT CONCRETE CURB, TYPE 1
336	660	2000	336	336	SY	LOW STRENGTH MORTAR BACKFILL
790	653	10000	790	790	CY	SODDING REINFORCED
4844	699	10000	4844	4844	SY	TOPSOIL FURNISHED AND PLACED
						SEEDING AND MULCHING

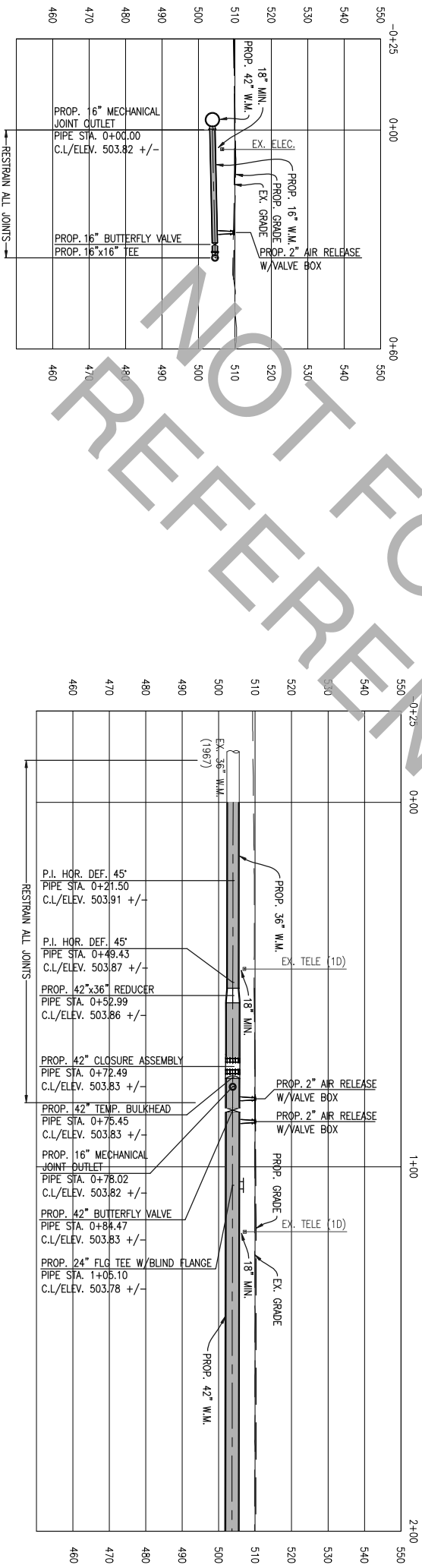
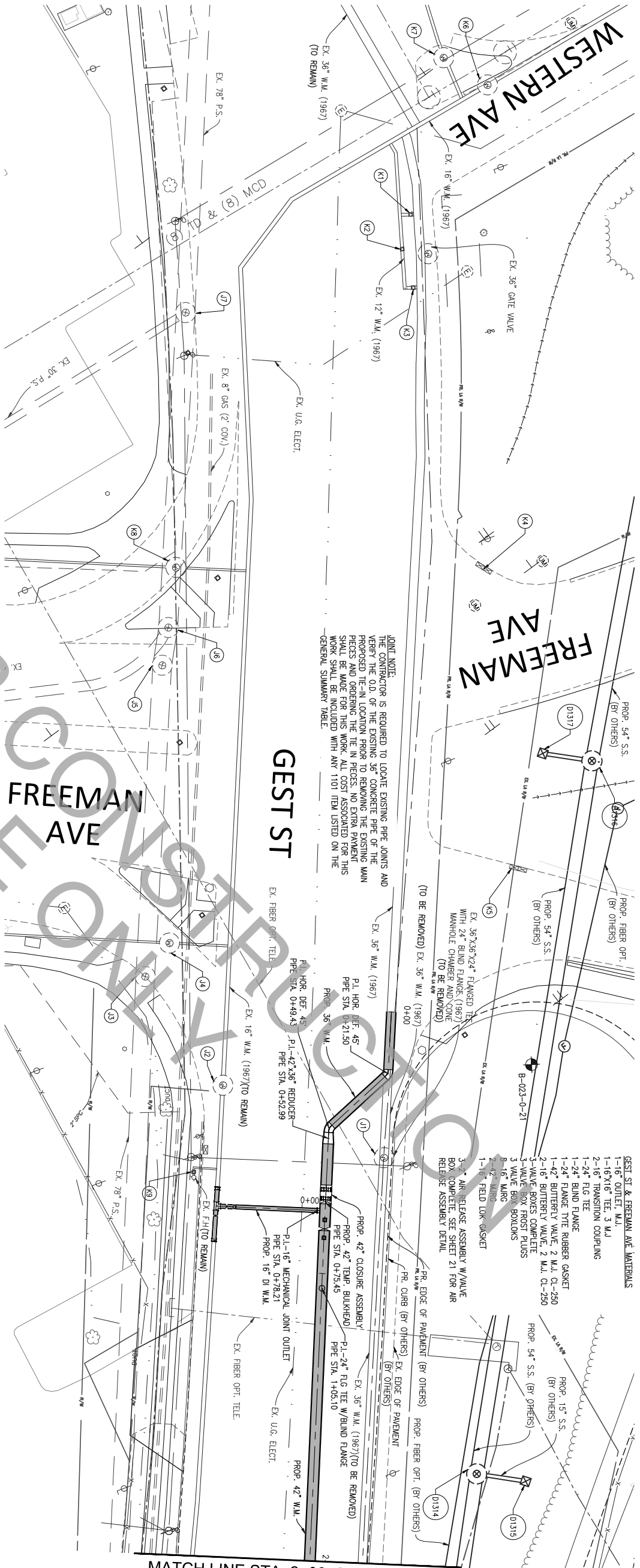


CALCULATED	BK
CHECKED	NR

REVISIONS

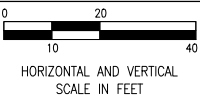
GENERAL SUMMARY

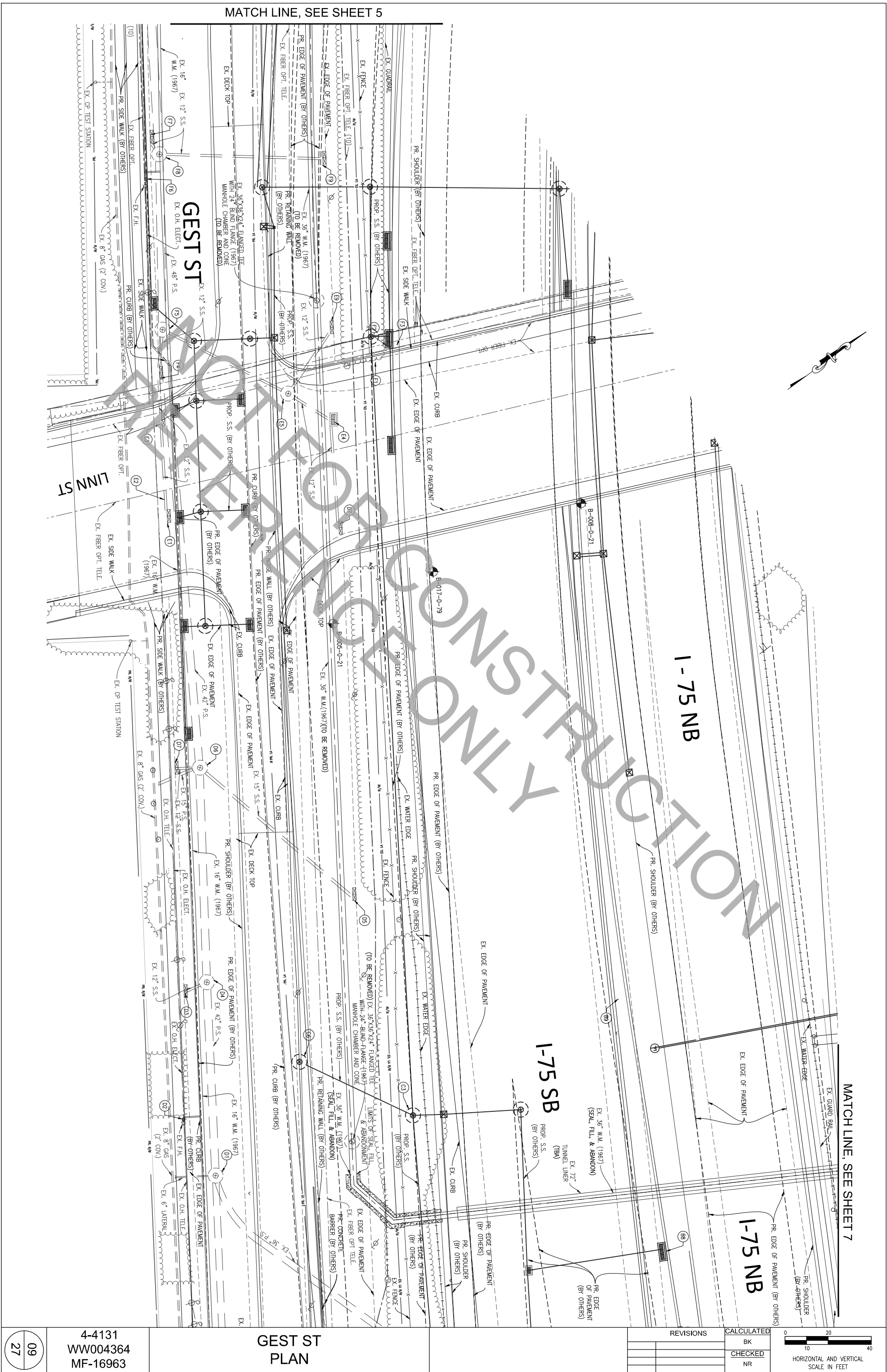
4-4131
WW004364
MF-16963



- STRUCTURE TABLE (BY OTHERS)
- 01314 PR. STORM MANHOLE
RIM ELEV 508.51
54" (SE) 475.86
15" (NE) 503.39
54" (NW) 475.86
 - 01319 PR. STORM INLET
GRATE ELEV 510.49
15" (SW) 503.56
 - 01316 PR. STORM MANHOLE
RIM ELEV 505.43
54" (SE) 473.35
15" (SW) 501.90
54" (NW) 473.35
 - 01317 PR. STORM INLET
GRATE ELEV 507.33
15" (NE) 502.58
 - 01 EX. WATER MANHOLE CHAMBER
 - 02 EX. WATER VALVE CHAMBER
 - 03 EX. SANITARY MANHOLE
 - 04 EX. WATER VALVE CHAMBER
 - 05 EX. SANITARY MANHOLE
 - 06 EX. SANITARY MANHOLE
 - 07 EX. SANITARY MANHOLE
 - 08 EX. WATER VALVE BOX
 - 09 EX. WATER VALVE CHAMBER
 - 10 EX. WATER VALVE BOX
 - 11 EX. CATCH BASIN
 - 12 EX. WATER VALVE CHAMBER
 - 13 EX. WATER VALVE CHAMBER
 - 14 EX. WATER VALVE CHAMBER
 - 15 EX. WATER VALVE BOX

REVISIONS		CALCULATED
		BK
CHECKED		NR





ITEM 614, MAINTAINING TRAFFIC (GEST ST.)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 60 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEETS 13 AND 14. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$2,800 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

CLOSE GEST ST. TO ALL TRAFFIC FROM W. 7TH ST. CONNECTOR TO FREEMAN AVE., INCLUDING THE GEST ST. NB AND SB RAMPS TO LINN ST. THE GEST ST. SB RAMP TO LINN ST. IS TO BE CLOSED PERMANENTLY. SET UP TRAFFIC DETOURS AS PER SHEETS 13 AND 14. MAINTAIN TRAFFIC ALONG GEST ST. FROM FREEMAN AVE. TO WESTERN AVE. AS LAID OUT ON SHEET 17. SHIFT AND COVER SIGNAL HEADS AS REQUIRED AT GEST ST. AND FREEMAN AVE. INTERSECTION.

EXCAVATE THE RECEIVING PIT IN GEST ST. WITHIN THE LIMITS OF THE GEST SB RAMP TO LINN ST. BEGIN CONSTRUCTION OF THE 42" WATER LINE ALONG GEST ST. EXCAVATE BORING PIT BETWEEN I-75 AND W. COURT ST. BEGIN JACK AND BORE OF 42" WATER LINE UNDER I-75.

ONCE WATERLINE RELOCATION HAS BEEN COMPLETED, FILL IN THE RECEIVING PIT TO GRADE. THE RAMP TO LINN ST. IS TO REMAIN PERMANENTLY CLOSED. PLACE PB AS SHOWN ON SHEET 20 WHICH IS TO REMAIN IN PLACE FOR THE HAM-IR75-1.05 PROJECT.

ITEM 614, MAINTAINING TRAFFIC (LINN ST.)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 14 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 15. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$6,700 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

CLOSE LINN ST. TO ALL TRAFFIC FROM W. GEST ST. TO W. COURT ST. CONSTRUCT THE 42" WATERLINE ACROSS LINN ST. USING AN OPEN CUT IN THE PAVEMENT. BACKFILL AND COMPACT THE TRENCH AND PLACE PROPOSED PAVEMENT TO GRADE.

NO WORK SHALL BE PERFORMED AND ALL EXISTING MOT LANES SHALL OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEAR'S (OBSERVED) CHRISTMAS (OBSERVED)
THANKSGIVING GENERAL/REGULAR ELECTION DAY (NOV)
MEMORIAL DAY FOURTH OF JULY (OBSERVED)
LABOR DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT	TIMES ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00 NOON FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY (GEN./REG.ELECTION)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
TUESDAY	12:00 NOON MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00 NOON TUESDAY THROUGH 6:00 AM THURSDAY

ITEM 614, MAINTAIN TRAFFIC (CONTD)

DAY OF HOLIDAY OR SPECIAL EVENT	TIMES ALL LANES MUST BE OPEN TO TRAFFIC
THANKSGIVING	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
THURSDAY	12:00 NOON WEDNESDAY THROUGH 6:00 AM FRIDAY
FRIDAY	12:00 NOON THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERCTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERCTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERCTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERCTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERCTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE			
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 8 PIO	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>=2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	7 CALENDAR DAYS PRIOR TO CLOSURE
	<=12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE	2 CALENDAR DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MINIMUM DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE CITY OF CINCINNATI RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

ITEM 622 - PORTABLE BARRIER, UNANCHORED, AS PER PLAN

AFTER THE COMPLETION OF WORK AT GEST ST. AS SHOWN ON SHEET 20, THE PORTABLE BARRIER, UNANCHORED SHALL BE MAINTAINED UNTIL 03/21/25 AT WHICH TIME THE REMOVAL/TRANSFER WILL BE COORDINATED WITH THE HAM-IR75-1.05 PROJECT CONTRACTOR.

FOR THE PORTABLE BARRIER ADJACENT TO THE EASTBOUND GEST ST. TRAFFIC, CONNECT TO THE EXISTING BARRIER PER SCD MT-101.80. FOR ALL LABOR, EQUIPMENT AND MATERIALS, SHALL BE INCLUDED IN THE UNIT COST FOR ITEM 614 PORTABLE BARRIER, UNANCHORED, AS PER PLAN.

ITEM 614, MAINTAINING TRAFFIC (ROAD CLOSED SIGN)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

GEST ST. AT W 7TH ST CONNECTOR (SHEETS 13 THRU 14)
GEST ST. AT FREEMAN AVE (SHEETS 13 THRU 14)
GEST ST. NB RAMP AT LINN ST. (SHEETS 13 THRU 14)
GEST ST. SB RAMP AT LINN ST. (SHEETS 13 THRU 14)
LINN ST. AT W 8TH ST. (SHEET 15)
LINN ST. AT W COURT ST. (SHEET 15)

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

COORDINATION BETWEEN CONTRACTORS

COORDINATION WILL BE REQUIRED WITH ADJACENT ODOT AND LOCAL PROJECTS. THERE WILL BE MULTIPLE ONGOING PROJECTS IN THE AREA, INCLUDING BUT NOT LIMITED TO:

ODOT BRENT SPENCE BRIDGE, PID 116649

METROPOLITAN SEWER DISTRICT PROJECT 10142950 - EAST BRANCH OHIO RIVER INTERCEPT (EBOR) EXTENSION PROJECT (LAUNCH PIT AT WESTERN AVE/GEST STREET/SB I-75 ON RAMP) HAM-IR75-1.05, PID 122048

THE CONTRACTOR MUST COORDINATE FULL-CLOSURES AND SIGNIFICANT MOT IMPACTS WITH THE ENGINEER & CONTRACTOR(S) FOR ALL ADJACENT PROJECTS.

CITY OF CINCINNATI DOTE

•IF PROJECT ACTIVITIES ARE PERFORMED IN CITY OF CINCINNATI RIGHT OF WAY, OR WILL IMPACT LOCAL ROADS, THEN THE CONTRACTORS MUST APPLY FOR A CITY PERMIT.

•PERMITS: A CITY OF CINCINNATI DOTE PERMIT IS REQUIRED PRIOR TO THE ODOT CONTRACTOR COMMENCING WORK INSIDE THE CITY'S RIGHT OF WAY. PERMITS WILL BE AT "NO COST" AND REQUIRE DOTE'S GENERAL PERMIT TO BE APPLIED FOR.

•THE CITY OF CINCINNATI'S CITIZENS AND BUSINESSES HOST MANY MAJOR EVENTS THAT MAY AFFECT TRANSPORTATION ASSETS WITHIN THE PROJECT LIMITS. CITY ISSUED PERMITS MAY REQUIRE MAJOR EVENT WORK RESTRICTIONS ON THE CONTRACTOR'S ACTIVITIES. THE CITY MAINTAINS A LIST OF KNOWN MAJOR EVENTS AT THE FOLLOWING WEBSITE: [HTTP://CINCINNATI-OH.GOV/POLICE/SPECIAL EVENTS-REGULATIONS-AUCTIONS/EVENT-PERMITS/](http://cincinnati-oh.gov/police/special-events-regulations-auctions/event-permits/).

CONFLICTING SIGNING AND PAVEMENT MARKINGS

THE CONTRACTOR SHALL REMOVE ANY AND ALL CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER. IN ADDITION, ALL SIGNING WITH CONFLICTING MOVEMENTS SHALL BE EITHER COVERED OR REMOVED DURING CLOSURES AND UNCOVERED OR REPLACED WITH THE SAME EXISTING WHEN THE CLOSURE IS OPENED UP TO TRAFFIC.

FOR ALL LABOR, EQUIPMENT AND MATERIALS, SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). IN ADDITION, THE FOLLOWING

LOCAL OFFICIALS SHALL RECEIVE NOTIFICATION:
CHRIS KELLY, CITY OF CINCINNATI:
CHRIS.KELLY@CINCINNATI-OH.GOV
CURTIS HINES
CURTIS.HINES@CINCINNATI-OH.GOV

THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

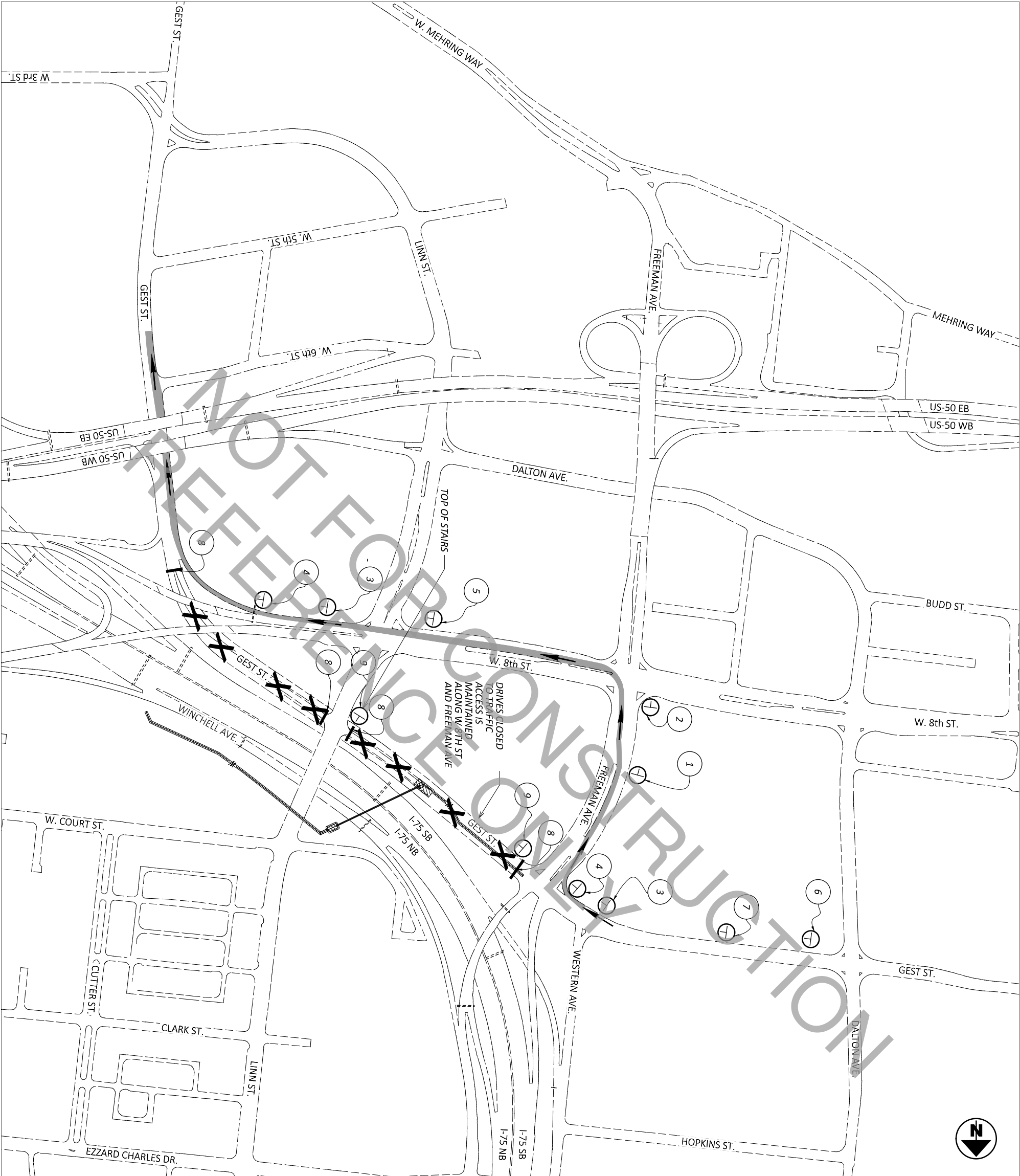
NOTIFICATION TIME FRAME TABLE			
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 8 PIO	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>=2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	7 CALENDAR DAYS PRIOR TO CLOSURE
	<=12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE	2 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	
	< 2 WEEKS	5 CALENDAR DAYS PRIOR TO CLOSURE	
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION	

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

SIGNAL HEADS AND SIGNAL TIMING

ALTHOUGH CERTAIN SIGNAL HEADS HAVE BEEN IDENTIFIED IN THIS PLAN SET TO REMAIN UNMOVED AND UNCOVERED DURING GEST ST CLOSURE, THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF CINCINNATI FOR ANY CHANGES TO SIGNAL HEADS. ALL COSTS ARE TO BE INCLUDED IN THE PAY ITEM 614 LUMP SUM MAINTENANCE OF TRAFFIC.

THE CONTRACTOR SHALL NOTIFY THE CITY R/W INSPECTOR A MINIMUM OF 30 DAYS BEFORE CLOSING GEST ST. THE CITY WILL RETIME THE SIGNAL DURING THE CLOSURE OF GEST ST.



1

GEST ST

DETOUR

D3-1-36
M4-8-30
M5-1-L-30

2

GEST ST

DETOUR

D3-1-36
M4-8-30
M6-1-L-30

3

GEST ST

DETOUR

D3-1-36
M4-8-30
M5-1-R-30

4

GEST ST

DETOUR

D3-1-36
M4-8-30
M6-1-R-30

5

GEST ST

DETOUR

D3-1-36
M4-8-30
M6-3-30

7

GEST ST

ROAD CLOSED AHEAD

D3-1-36
M4-8-30
M6-1-R-30

6

ROAD WORK AHEAD

W20-1-36

8

SIDEWALK CLOSED

R9-9-30

9

1000 FEET

ROAD CLOSED AHEAD

D3-1-36
M4-8-30
M6-3-30

8

ROAD CLOSED

R11-2-48
TYPE 3 BARRICADE
PER MT 101.60

NOTES:
1. ALL WORK ON THIS SHEET IS INCLUDED IN ITEM 614 -
DETOUR SIGNING.

4-4131
WW004364
MF-16963

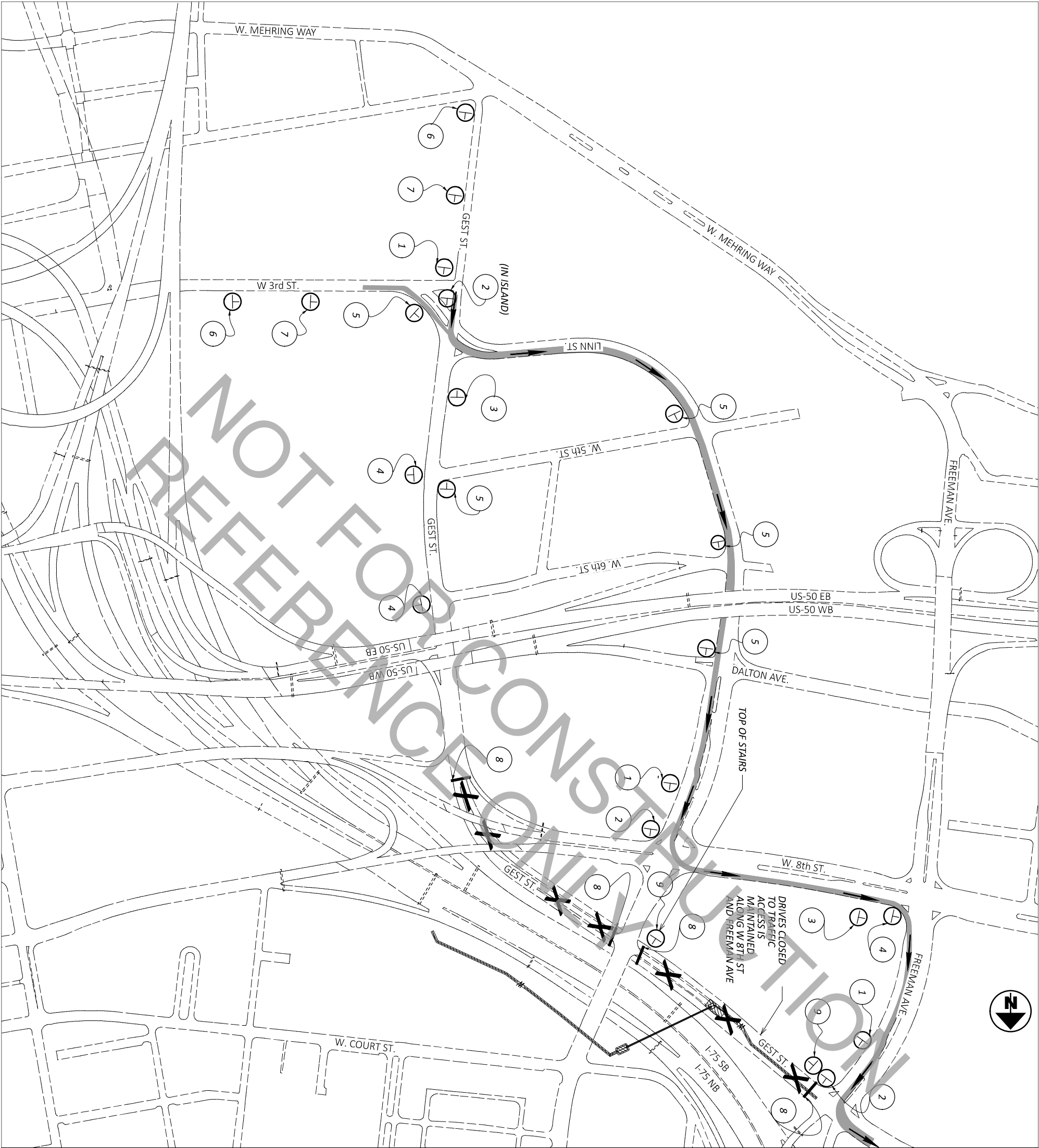
MAINTENANCE OF TRAFFIC
DETOUR MAP - EB GEST ST (1 OF 2)

REVISIONS	

13
27

CONTRACT NO. ODOT 116649, KYTC PROJECT 6-17, ODOT CONSTRUCTION PROJECT 23-3000

CALCULATED
CMK
CHECKED
CEA



1

GEST ST

DETOUR

D3-1-36
M4-8-30
M5-1-L-30

2

GEST ST

DETOUR

D3-1-36
M4-8-30
M6-1-L-30

3

GEST ST

DETOUR

D3-1-36
M4-8-30
M5-1-R-30

4

GEST ST

DETOUR

D3-1-36
M4-8-30
M6-1-R-30

5

GEST ST

DETOUR

D3-1-36
M4-8-30
M5-1-R-30

6

GEST ST

ROAD CLOSED AHEAD

D3-1-36
W20-3-36

7

DETOUR AHEAD

W20-2-36

8

ROAD CLOSED

R11-2-48
TYPE 3 BARRICADE
PER MT 101.60

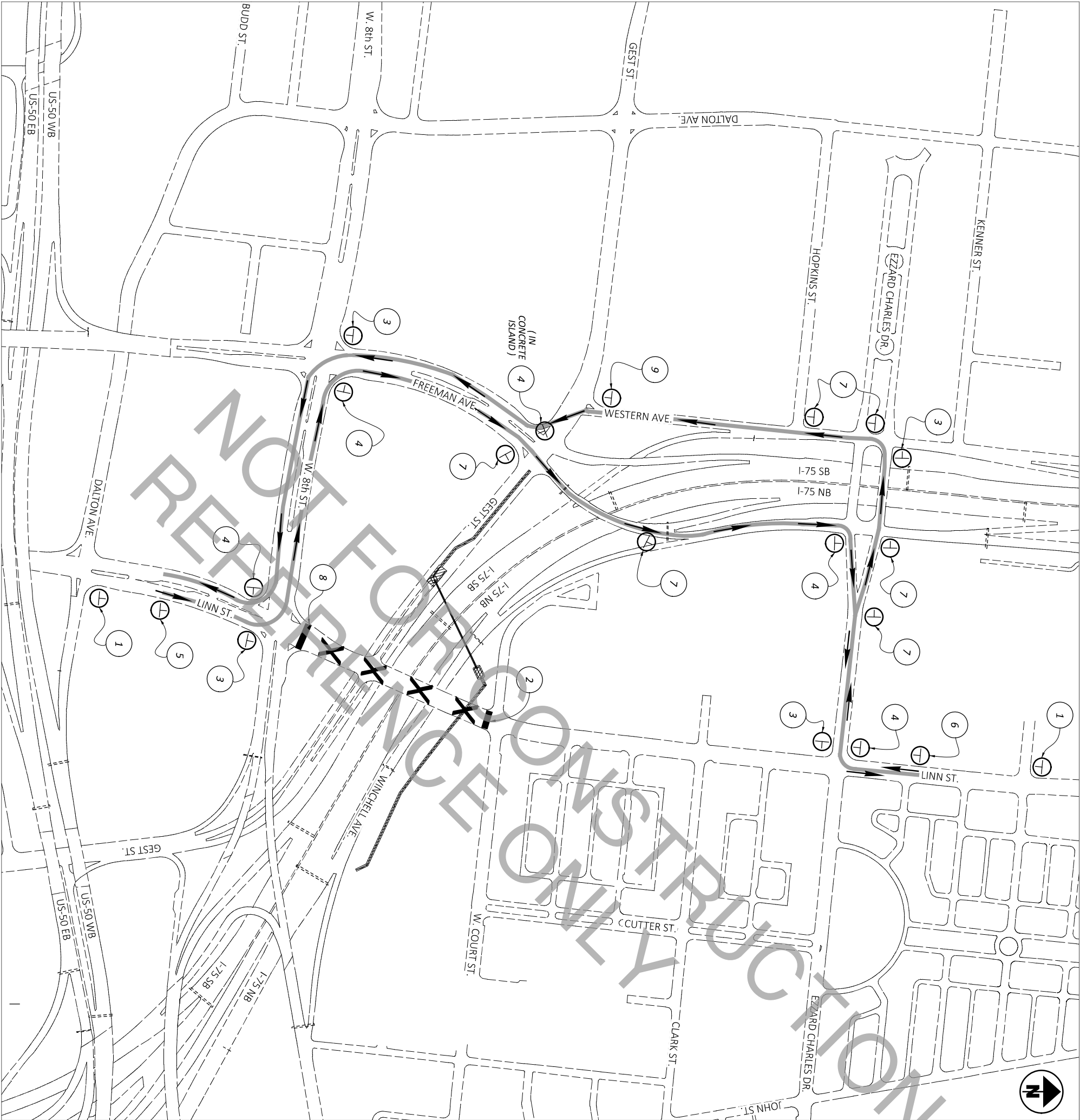
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SIDEWALK CLOSED

R9-9-30

NOTES:

1. ALL WORK ON THIS SHEET IS INCLUDED IN ITEM 614 - DETOUR SIGNING.



W20-1-24

3



D3-1-36
M4-8-30
M6-1-L-30

5



D3-1-36
M4-8-30
M5-1-L-30

7



D3-1-36
M4-8-30
M6-3-30

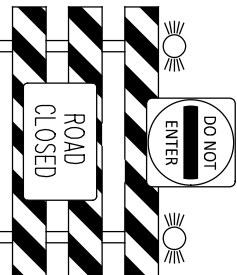
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D3-1-36
M4-8-30
M5-2-L-30

NOTES:

1. ALL WORK ON THIS SHEET IS INCLUDED IN ITEM 614 - **DETOUR SIGNING**.
2. THE CONTRACTOR MUST MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES EVEN THOUGH VEHICULAR TRAFFIC CAN BE DETOURED.



R5-1-36
R11-2-48
TYPE 3 BARRICADE
PER MT 101.60

4



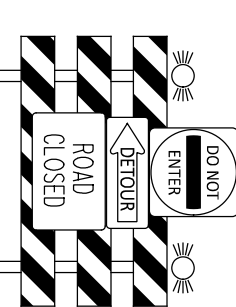
D3-1-36
M4-8-30
M6-1-R-30

6



D3-1-36
M4-8-30
M5-1-R-30

8



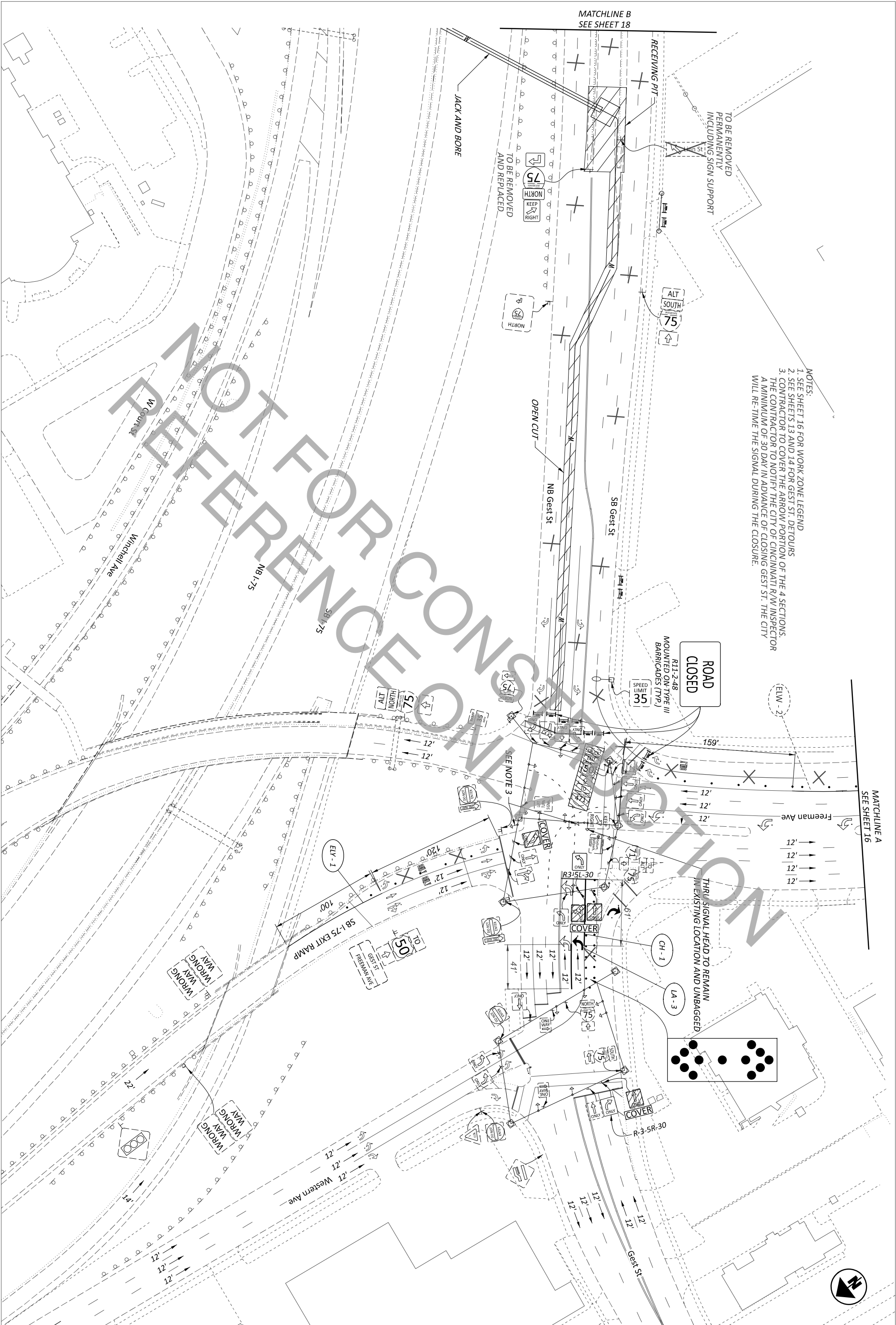
R5-1-36
M4-10L-48
R11-2-48
TYPE 3 BARRICADE
PER MT 101.60

CALCULATED
CMK
CHECKED
CEA

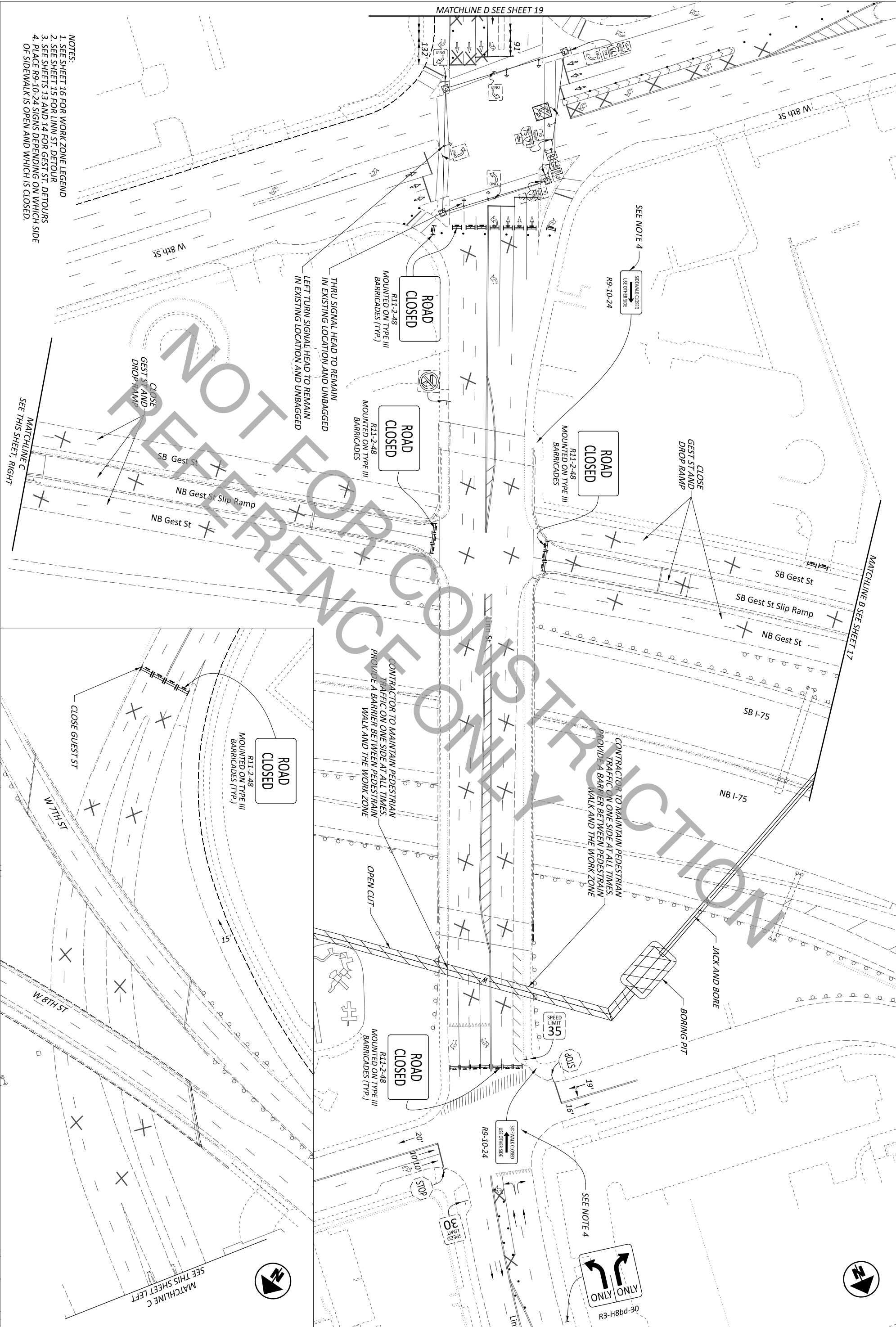
REVISIONS

MAINTENANCE OF TRAFFIC DETOUR MAP - LINN ST

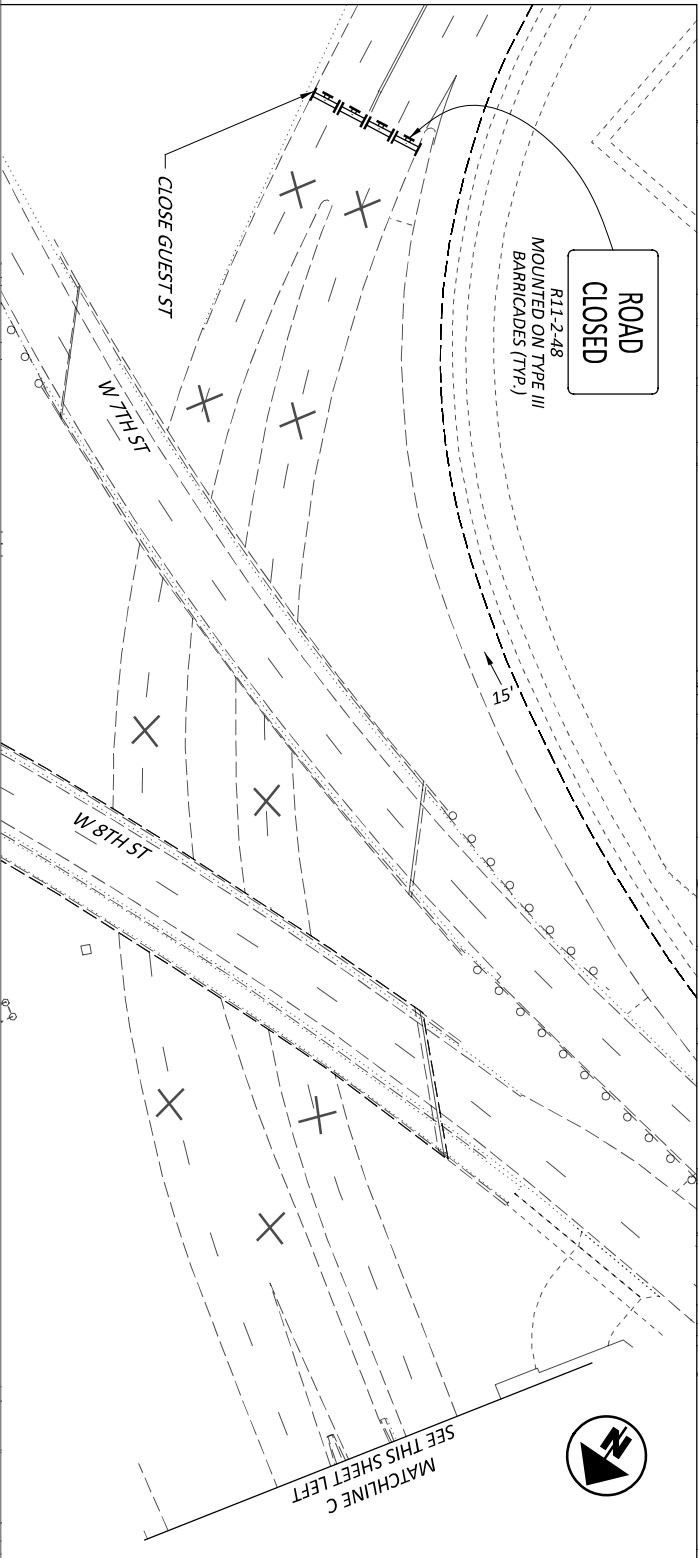
4-4131
WW004364
MF-16963



- NOTES:
- 1. SEE SHEET 16 FOR WORK ZONE LEGEND
 - 2. SEE SHEETS 13 AND 14 FOR GEST ST. DETOURS
 - 3. CONTRACTOR TO COVER THE ARROW PORTION OF THE 4 SECTIONS. THE CONTRACTOR TO NOTIFY THE CITY OF CINCINNATI R/W INSPECTOR A MINIMUM OF 30 DAY IN ADVANCE OF CLOSING GEST ST. THE CITY WILL RE-TIME THE SIGNAL DURING THE CLOSURE.



- NOTES:
- 1. SEE SHEET 16 FOR WORK ZONE LEGEND
 - 2. SEE SHEET 15 FOR LINN ST. DETOUR
 - 3. SEE SHEETS 13 AND 14 FOR GEST ST. DETOURS
 - 4. PLACE R9-10-24 SIGNS DEPENDING ON WHICH SIDE OF SIDEWALK IS OPEN AND WHICH IS CLOSED.





- NOTES:
- 1. SEE SHEET 16 FOR WORK ZONE LEGEND
 - 2. SEE SHEET 15 FOR LINN ST. DETOUR
 - 3. SEE SHEETS 13 AND 14 FOR GIST ST. DETOURS



State of Ohio Department of Transportation Office of Research Testing Laboratory		HOLLOW STEM LOG OF BORING		Date Serviced: 6-25-79 Date Completed: 6-25-79 Boring No. 8		Sample Type: AUGER, Dia. 9475, 8" RT. (RAMP A) Coring Length: 15435, 30' RT. (RAMP A) Surface Elev. +0.4'		Project Identification: HAMILTON HAM - 75 - 0104 (LINCOLN PARK) ROAD WEST LIGHT TOWERS SUBSURFACE INVESTIGATION	
Elev.	Depth	Station	Description	Field No.	Lab. No.	% Moisture	% Fines	Grain Size Distribution	Soil Classification
0	0								
2	2		MIXED	18051	10	5	15	49	21 24 5 28 A-40
4	4		BROWNISH-GRAY CLAYEY SANDY SILT WITH GRAVEL						
6	6	6/6/8	BROWN COARSE AND FINE CLAYEY SAND	18052	0	20	53	8 19	NP NP 14 A-36
8	8	6/12/13	BROWN CLAYEY SILT	18053	0	0	243	55 25	6 23 A-44
10	10								
12	12	5/8/8	BROWN SANDY SILT AND CLAY	18054	0	8	22	21	49 33 14 28 A-64
14	14	4/4/6	BROWN COARSE AND FINE CLAYEY SAND	18055	6	37	31	8 18	NP NP 13 A-36
16	16	5/5/5	BROWN COARSE AND FINE SAND WITH GRAVEL	18056	9	52	26	1 12	NP NP 11 A-1-8
18	18								
20	20								
22	22	6/16/13	BROWN SILT	18057	0	0	4	88	8 NP NP 24 A-45
24	24								
26	26	6/9/14	BROWN CLAYEY SILT	18058	0	0	85	15	NP NP 26 A-45
28	28								
30	30								
32	32	6/15/24	BROWN CLAYEY SANDY SILT	18059	0	9	45	19	27 NP NP 24 A-44
34	34		BOTTOM OF BORING						

Pen Test: Penetration Status: Age > 2.00mm, Coarse Sand < 200-0.42mm, Fine Sand < 0.075mm, Silt < 0.075-0.0075mm, Clay < 0.0075mm

B-015-0-79

State of Ohio Department of Transportation Office of Research Testing Laboratory		HOLLOW STEM LOG OF BORING		Date Serviced: 6-25-79 Date Completed: 6-25-79 Boring No. 8		Sample Type: AUGER, Dia. 15435, 30' RT. (RAMP A) Coring Length: 15435, 30' RT. (RAMP A) Surface Elev. +10.0'		Project Identification: HAMILTON HAM - 75 - 0104 (LINCOLN PARK) ROAD WEST LIGHT TOWERS SUBSURFACE INVESTIGATION	
Elev.	Depth	Station	Description	Field No.	Lab. No.	% Moisture	% Fines	Grain Size Distribution	Soil Classification
0	0								
2	2		MIXED	18060	2	1	1	80	16 NP NP 14 A-48
4	4		BROWN CLAYEY SILT						
6	6	4/5/8	BROWN SANDY SILT AND CLAY	18061	5	5	14	56	20 32 14 26 A-6A
8	8	5/5/6	BROWN SANDY SILT AND CLAY	18062	0	14	17	31	38 32 13 25 A-6A
10	10								
12	12	5/7/17	BROWN COARSE AND FINE CLAYEY SAND	18063	5	40	32	4	19 NP NP 13 A-3A
14	14	11/15/19	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	18064	19	45	15	10	11 NP NP 7 A-1-B
16	16	10/15/20	BROWN-GRAY COARSE AND FINE SILTY SAND	18065	0	9	72	11	8 NP NP 4 A-3A
18	18								
20	20								
22	22	12/16/17	BROWN-GRAY COARSE AND FINE SILTY SAND	18066	0	12	62	17	9 NP NP 8 A-3A
24	24								
26	26	8/12/19	BROWN CLAYEY SANDY SILT	18067	2	12	15	46	25 18 3 21 A-4A
28	28		BOTTOM OF BORING						
30	30								
32	32								
34	34								
36	36								

Pen Test: Penetration Status: Age > 2.00mm, Coarse Sand < 200-0.42mm, Fine Sand < 0.075mm, Silt < 0.075-0.0075mm, Clay < 0.0075mm

B-017-0-79

State of Ohio Department of Transportation Office of Research Testing Laboratory		HOLLOW STEM LOG OF BORING		Date Serviced: 6-19-79 Date Completed: 6-19-79 Boring No. 8		Sample Type: AUGER, Dia. 67470, 20' LT. (18-75-SS) Coring Length: 67470, 20' LT. (18-75-SS) Surface Elev. E.O.P.		Project Identification: HAMILTON HAM - 75 - 0104 (LINCOLN PARK) ROAD WEST LIGHT TOWERS SUBSURFACE INVESTIGATION	
Elev.	Depth	Station	Description	Field No.	Lab. No.	% Moisture	% Fines	Grain Size Distribution	Soil Classification
0	0								
2	2		MIXED	117979	7	13	14	27	39 29 10 16 A-44
4	4		BROWN CLAYEY SANDY SILT WITH BRICK FRAGMENTS						
6	6	10/12/14	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117980	10	56	15	12	7 NP NP 8 A-1-8
8	8	12/7/23	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117981	15	51	19	8	7 NP NP 10 A-1-8
10	10								
12	12	11/16/21	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117982	14	55	14	8	9 NP NP 8 A-1-8
14	14	8/16/18	BROWN CLAYEY SILT	117983	1	3	6	78	12 NP NP 20 A-45
16	16	7/7/12	BROWN CLAYEY SILT	117984	0	0	3	82	15 NP NP 20 A-45
18	18	10/15/21	BROWN CLAYEY SANDY SILT	117985	0	1	41	47	11 NP NP 17 A-44
20	20								
22	22	16/19/25	BROWN COARSE AND FINE SILTY SAND	117986	0	4	77	10	9 NP NP 7 A-3A
24	24								
26	26	26/20/30	BROWN COARSE AND FINE SAND	117987	0	3	83	6	8 NP NP 4 A-3A
28	28		BOTTOM OF BORING						
30	30								
32	32								
34	34								
36	36								

Pen Test: Penetration Status: Age > 2.00mm, Coarse Sand < 200-0.42mm, Fine Sand < 0.075mm, Silt < 0.075-0.0075mm, Clay < 0.0075mm

B-051-0-10

State of Ohio Department of Transportation Office of Research Testing Laboratory		HOLLOW STEM LOG OF BORING		Date Serviced: 6-19-79 Date Completed: 6-19-79 Boring No. 8		Sample Type: AUGER, Dia. 67470, 20' LT. (18-75-SS) Coring Length: 67470, 20' LT. (18-75-SS) Surface Elev. E.O.P.		Project Identification: HAMILTON HAM - 75 - 0104 (LINCOLN PARK) ROAD WEST LIGHT TOWERS SUBSURFACE INVESTIGATION	
Elev.	Depth	Station	Description	Field No.	Lab. No.	% Moisture	% Fines	Grain Size Distribution	Soil Classification
0	0								
2	2		MIXED	117979	7	13	14	27	39 29 10 16 A-44
4	4		BROWN CLAYEY SANDY SILT WITH BRICK FRAGMENTS						
6	6	10/12/14	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117980	10	56	15	12	7 NP NP 8 A-1-8
8	8	12/7/23	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117981	15	51	19	8	7 NP NP 10 A-1-8
10	10								
12	12	11/16/21	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117982	14	55	14	8	9 NP NP 8 A-1-8
14	14	8/16/18	BROWN CLAYEY SILT	117983	1	3	6	78	12 NP NP 20 A-45
16	16	7/7/12	BROWN CLAYEY SILT	117984	0	0	3	82	15 NP NP 20 A-45
18	18	10/15/21	BROWN CLAYEY SANDY SILT	117985	0	1	41	47	11 NP NP 17 A-44
20	20								
22	22	16/19/25	BROWN COARSE AND FINE SILTY SAND	117986	0	4	77	10	9 NP NP 7 A-3A
24	24								
26	26	26/20/30	BROWN COARSE AND FINE SAND	117987	0	3	83	6	8 NP NP 4 A-3A
28	28		BOTTOM OF BORING						
30	30								
32	32								
34	34								
36	36								

PROJECTS2010\N1105222\GINT\ODOT LOGS ALT.LGP

State of Ohio Department of Transportation Office of Research Testing Laboratory		HOLLOW STEM LOG OF BORING		Date Serviced: 6-19-79 Date Completed: 6-19-79 Boring No. 8		Sample Type: AUGER, Dia. 67470, 20' LT. (18-75-SS) Coring Length: 67470, 20' LT. (18-75-SS) Surface Elev. E.O.P.		Project Identification: HAMILTON HAM - 75 - 0104 (LINCOLN PARK) ROAD WEST LIGHT TOWERS SUBSURFACE INVESTIGATION	
Elev.	Depth	Station	Description	Field No.	Lab. No.	% Moisture	% Fines	Grain Size Distribution	Soil Classification
0	0								
2	2		MIXED	117979	7	13	14	27	39 29 10 16 A-44
4	4		BROWN CLAYEY SANDY SILT WITH BRICK FRAGMENTS						
6	6	10/12/14	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117980	10	56	15	12	7 NP NP 8 A-1-8
8	8	12/7/23	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117981	15	51	19	8	7 NP NP 10 A-1-8
10	10								
12	12	11/16/21	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117982	14	55	14	8	9 NP NP 8 A-1-8
14	14	8/16/18	BROWN CLAYEY SILT	117983	1	3	6	78	12 NP NP 20 A-45
16	16	7/7/12	BROWN CLAYEY SILT	117984	0	0	3	82	15 NP NP 20 A-45
18	18	10/15/21	BROWN CLAYEY SANDY SILT	117985	0	1	41	47	11 NP NP 17 A-44
20	20								
22	22	16/19/25	BROWN COARSE AND FINE SILTY SAND	117986	0	4	77	10	9 NP NP 7 A-3A
24	24								
26	26	26/20/30	BROWN COARSE AND FINE SAND	117987	0	3	83	6	8 NP NP 4 A-3A
28	28		BOTTOM OF BORING						
30	30								
32	32								
34	34								
36	36								

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 322811 11111 - N\PROJECTS2010\N1105222\GINT\ODOT LOGS ALT.LGP

B-052-0-10

State of Ohio Department of Transportation Office of Research Testing Laboratory		HOLLOW STEM LOG OF BORING		Date Serviced: 6-19-79 Date Completed: 6-19-79 Boring No. 8		Sample Type: AUGER, Dia. 67470, 20' LT. (18-75-SS) Coring Length: 67470, 20' LT. (18-75-SS) Surface Elev. E.O.P.		Project Identification: HAMILTON HAM - 75 - 0104 (LINCOLN PARK) ROAD WEST LIGHT TOWERS SUBSURFACE INVESTIGATION	
Elev.	Depth	Station	Description	Field No.	Lab. No.	% Moisture	% Fines	Grain Size Distribution	Soil Classification
0	0								
2	2		MIXED	117979	7	13	14	27	39 29 10 16 A-44
4	4		BROWN CLAYEY SANDY SILT WITH BRICK FRAGMENTS						
6	6	10/12/14	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117980	10	56	15	12	7 NP NP 8 A-1-8
8	8	12/7/23	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117981	15	51	19	8	7 NP NP 10 A-1-8
10	10								
12	12	11/16/21	BROWN COARSE SAND WITH GRAVEL AND FINE SAND	117982	14	55	14	8	9 NP NP 8 A-1-8
14	14	8/16/18	BROWN CLAYEY SILT	117983	1	3	6	78	12 NP NP 20 A-45
16	16	7/7/12	BROWN CLAYEY SILT	117984	0	0	3	82	15 NP NP 20 A-45
18	18	10/15/21	BROWN CLAYEY SANDY SILT	117985	0	1	41	47	11 NP NP 17 A-44
20	20								
22	22	16/19/25	BROWN COARSE AND FINE SILTY SAND	117986	0	4	77	10	9 NP NP 7 A-3A
24	24								
26	26	26/20/30	BROWN COARSE AND FINE SAND	117987	0	3	83	6	8 NP NP 4 A-3A
28	28		BOTTOM OF BORING						
30	30								
32	32								
34	34								
36	36								

PROJECT: HAM-75/000-22-RMS		STATION/CHORD: 47453.02-188.2		END: 929810		P.G. OF 2		P. 052-0-1																	
MATERIAL DESCRIPTION AND NOTES		ELEV		DEPTH		SPT/ N ₆₀		REG SAMPLE		H.P.		GRANULOM.		A.P.		H.P.		HOLE							
VERY DENSE BROWN, COARSE AND FINE SAND, SILT, MOST		482.4		ROD		ID		ID		(in)		GR		CS		FS		S _u		WC		CLASS (in)		SCALED	
		480.9		19		34		68		100		SS-17										18		A-34 (V)	
		E-03																							

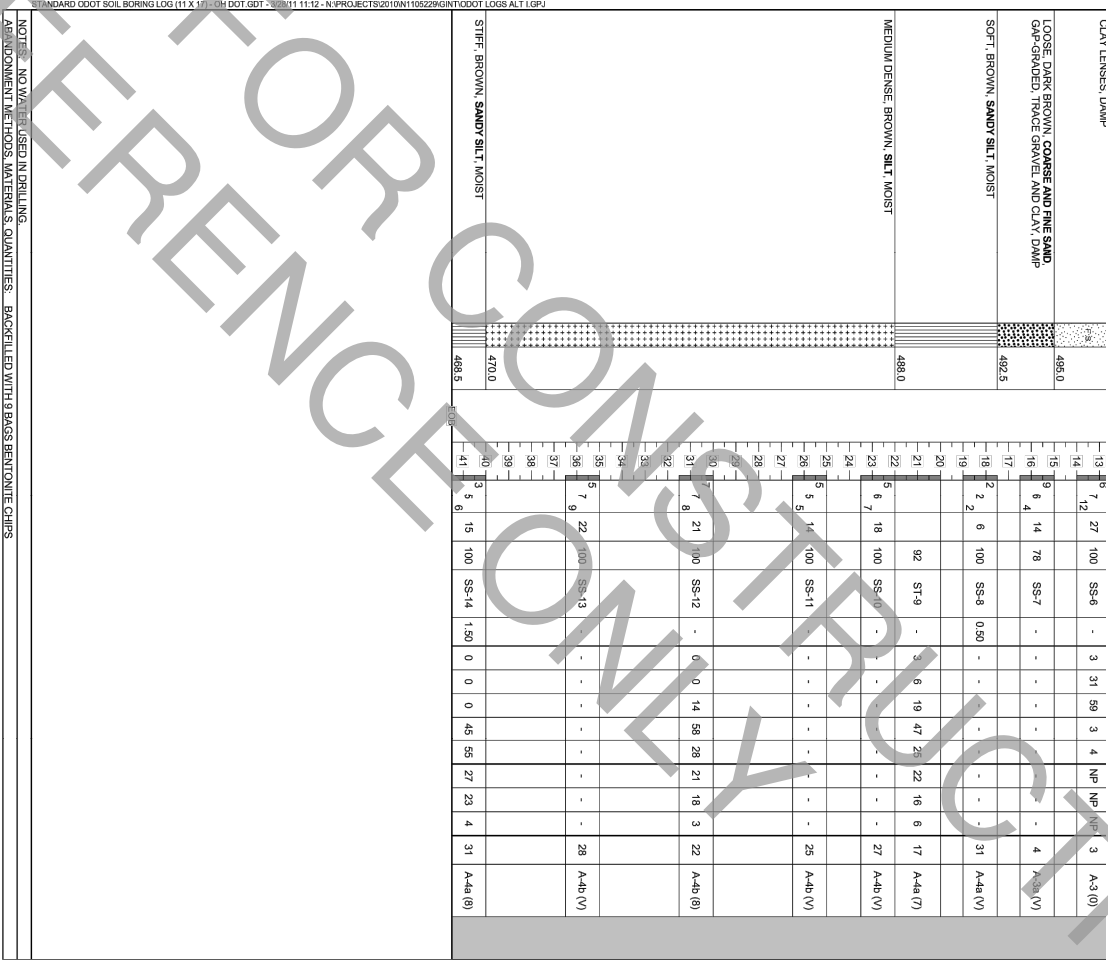
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PROJECT: 1644-1710-0-00-22 - RWIS		DRAWING FIRM / OPERATOR:		HON / AM	
TYPE: RETAINING WALL		SAMPLING METHOD: DRILLING METHOD		HON / DIT	
PID: 75119 - BR ID: 922610		START: 9/29/10 END: 9/29/10		SPT	
MATERIAL DESCRIPTION AND NOTES		ELEV.		DEPTHS	
TOSCAL (17)		515.4		SPT	
VERY DENSE BROWN STONE FRAGMENTS WITH SAND AND SILT. TRACE BRICK FRAGMENTS AND GLASS FRAGMENTS. TRACE ORGANICS. (FILL) DRY	512.9	1	42	103	81
MEDIUM DENSE DARK GRAY STONE FRAGMENTS AND GLASS FRAGMENTS. TRACE ORGANICS. (FILL) DRY	510.4	2	23	18	37
LOOSE BROWN, SANDY SILT. SOME CLAY. TRACE ORGANICS. (FILL) DRY	507.9	3	16	60	SS-2
VERY LOOSE TO LOOSE DARK BROWN GRAVEL AND SAND. TRACE BRICK FRAGMENTS, GLASS FRAGMENTS, AND ORGANICS. (FILL) DRY		4	10	SS-2	
VERY SOFT TO SOFT DARK BROWN, SILT AND CLAY. TRACE BRICK FRAGMENTS, GLASS FRAGMENTS, AND ORGANICS. (FILL) DRY	497.9	5	6	14	22
		6	4	22	SS-3
		7			
		8	1	0	SS-4
		9			
		10	1	17	SS-5
		11			
		12			
		13	1	4	22
		14	2		
		15	2	10	6
		16	1	10	6
		17			
		18	1	3	28
		19			
		20	1	3	28
		21	1		
		22			
		23			
		24			
		25	3	16	SS-10
		26	2		
		27			
		28			
		29			
		30			
		31	2	6	75
		32			
		33			
		34			
		35	5	100	SS-12
		36	9	100	SS-10
		37			
		38			
		39			
		40	5	100	SS-13
		41	6	100	SS-13A
		42			
		43			
		44			
		45			
		46	83	ST-14	
		47			
		48	12	32	100
		49			
		50	3	11	100
		51	4		
		52			
		53			
		54			
		55	5	16	100
		56	6		
		57			
		58			
		59			

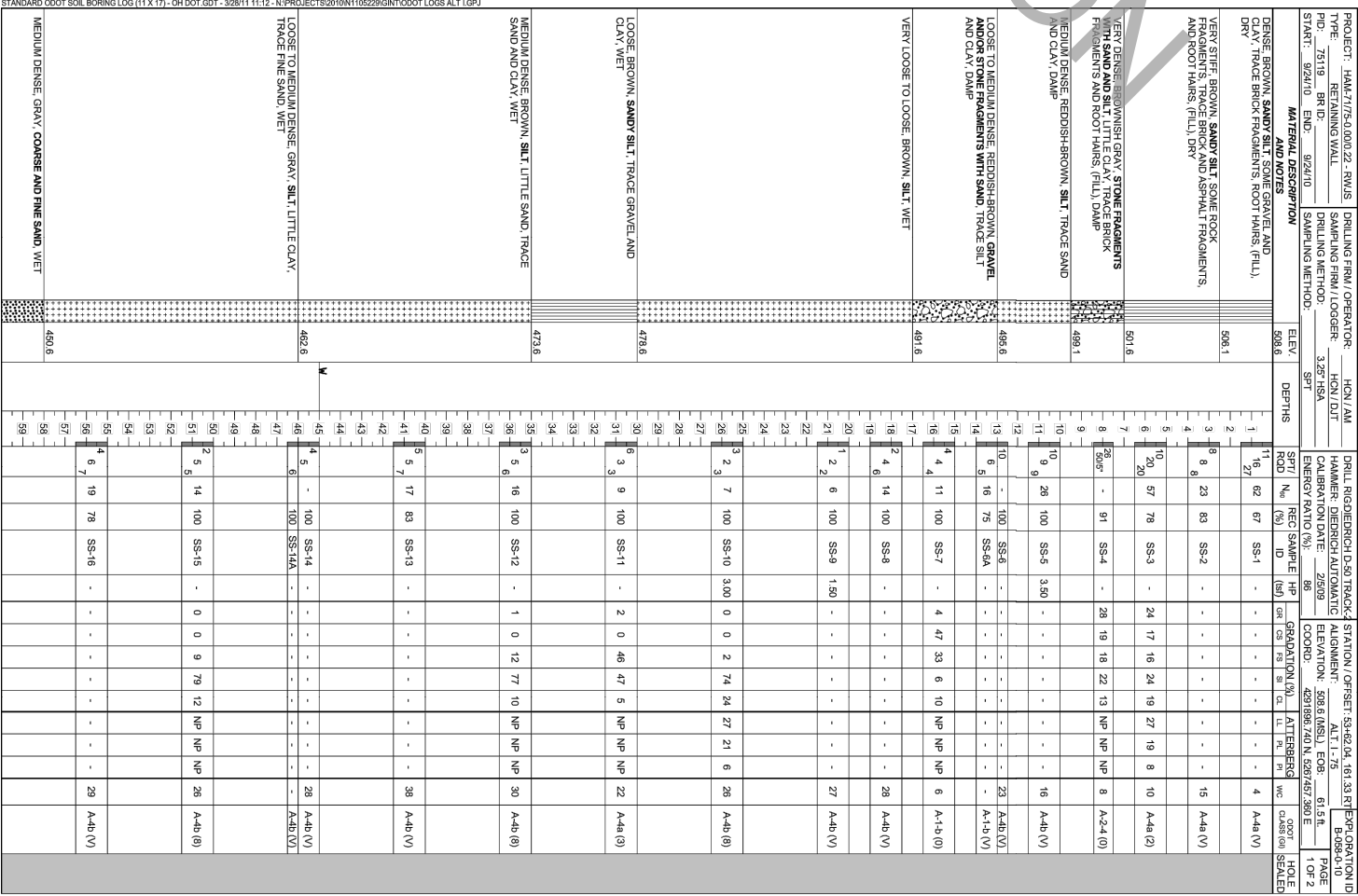
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B-056-0-10

B-057-0-10

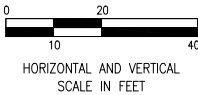


B-058-0-10



B-058-0-10

PROJECT: HAM-17/5-0-000-22 - RWIS		STATION: OFFSET: 55+42.04, 161.33		END: 92+410		B-058-0-10	
TYPE: RETAINING WALL		SAMPLING FIRM / LOGGER: 3		HON / DJT		B-058-0-10	
START: 92+410		END: 92+410		SAMPLING METHOD: 3		B-058-0-10	
MATERIAL DESCRIPTION AND NOTES		ELEV /		DEPTH		B-058-0-10	
DENSE BROWN, SANDY SILT, SOME GRAVEL AND CLAY, TRACE BRICK FRAGMENTS, ROOT HAIRS, (FILL), DRY		506.1		1		B-058-0-10	
VERY STIFF BROWN, SANDY SILT, SOME ROCK FRAGMENTS, TRACE BRICK AND ASPHALT FRAGMENTS AND ROOT HAIRS, (FILL), DRY		501.6		2		B-058-0-10	
VERY DENSE, BRNISH GRAY, STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, TRACE BRICK FRAGMENTS AND ROOT HAIRS, (FILL), DAMP		499.1		3		B-058-0-10	
MEDIUM DENSE, REDDISH-BROWN, SILT, TRACE SAND AND CLAY, DAMP		495.6		4		B-058-0-10	
LOOSE TO MEDIUM DENSE REDDISH-BROWN, GRAVEL AND CLAY DAMP		491.6		5		B-058-0-10	
VERY LOOSE TO LOOSE, BROWN, SILT, WET		473.6		6		B-058-0-10	
LOOSE BROWN, SANDY SILT, TRACE GRAVEL AND CLAY, WET		462.6		7		B-058-0-10	
MEDIUM DENSE, GRAY, COARSE AND FINE SAND, WET		450.6		8		B-058-0-10	



REVISIONS

CHECKED

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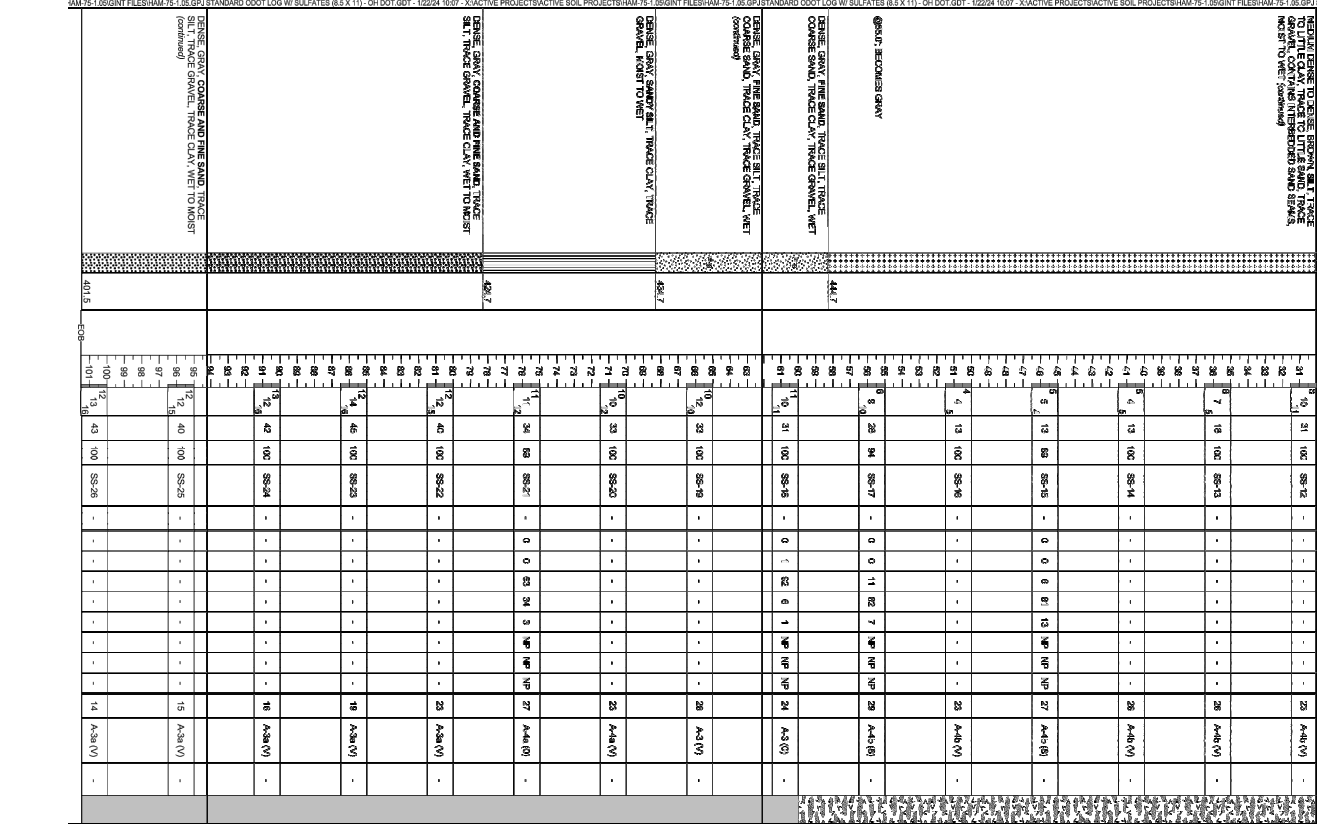
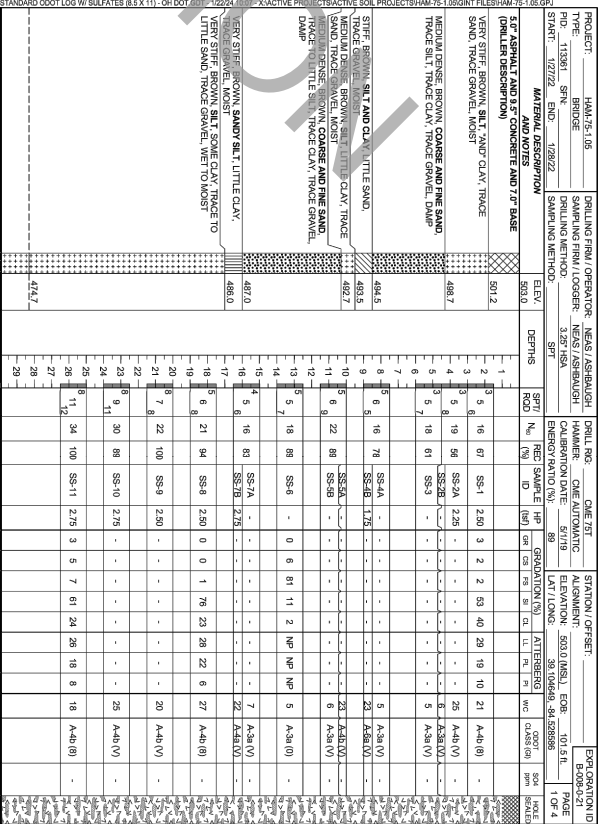
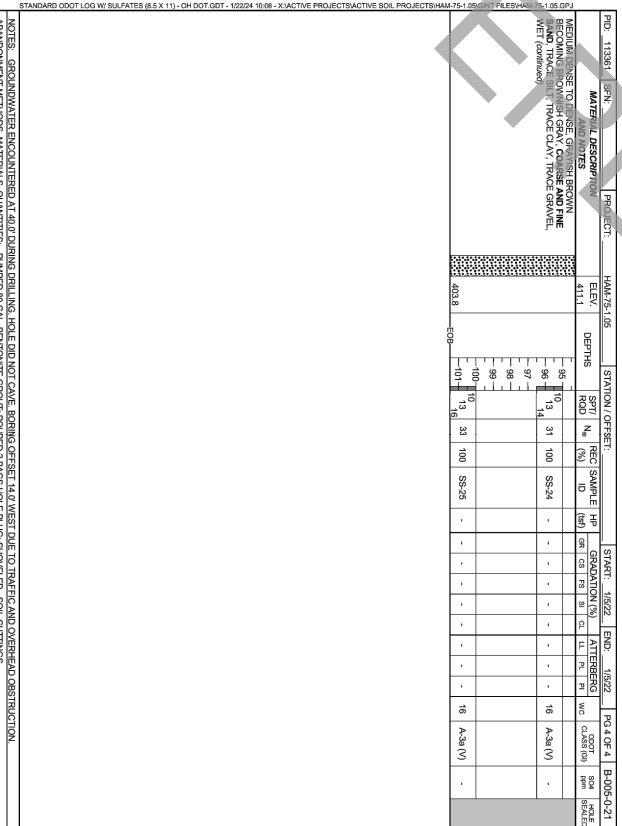
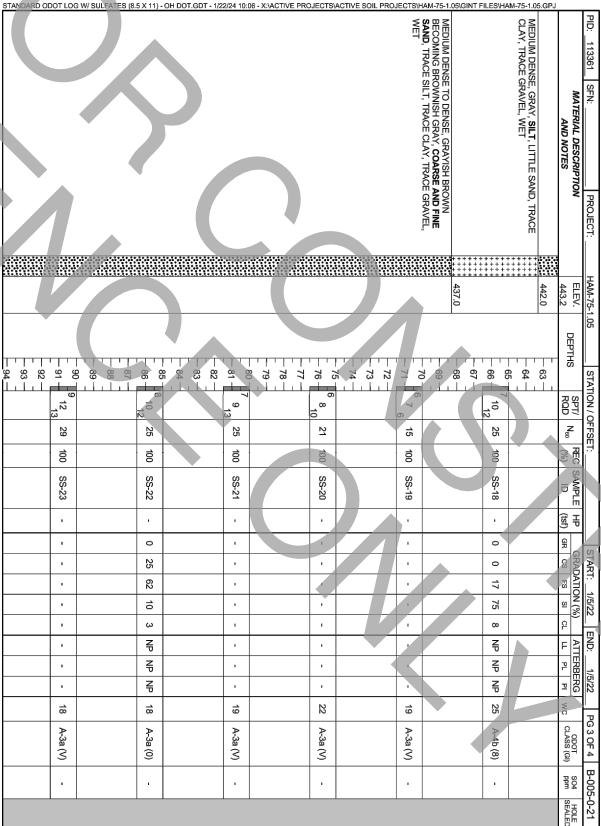
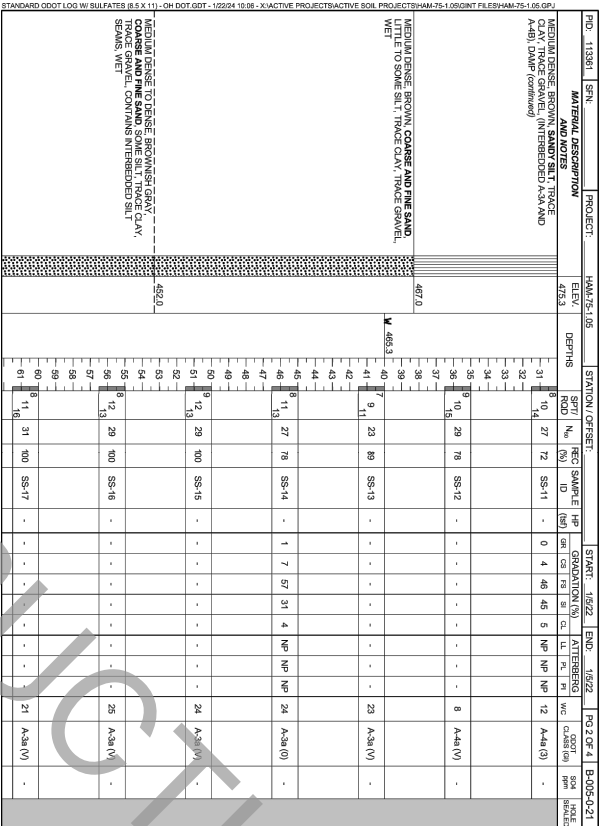
4-4131

WW004364

MF-16963

GEST ST/WINCHELL AVE

REFERENCE SOIL BORINGS



B-010-0-21

PROJECT: HA-75-15										DRILLING FIRM / OPERATOR: NEAS / J. HODGES										DRILL RIG: CHE EX-7										STATION / OFFSET:										EXP. CATION D:									
TYPE: NOISE WALL										SAMPLING FIRM / LOGGER: NEAS / J. HODGES										HAMMER: CHE AUTOMATIC										ALIGNMENT:										558.0 (MSL) EOB: 106.5 ft									
PO: 11381										SRN: 119921										DRILLING METHOD: 3.25' TSA										HAZARD RATIO (N): 8.4										LAST LOG: 38' (1955) 48' (2000) 1' (2010)									
START: 119921										END: 119921										SAMPLING METHOD:																													
MATERIAL DESCRIPTION																																																	
AND NOTES																																																	
6" ASPHALT AND 6" CONCRETE AND 6" BASE																																																	
MEDIAN RISE TO DENSE BROWN GRAY, COARSE AND FINE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET TO MOIST																																																	
VEGETATION: DAMP																																																	
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