INDEX OF SHEETS

<u>CIVIL</u>

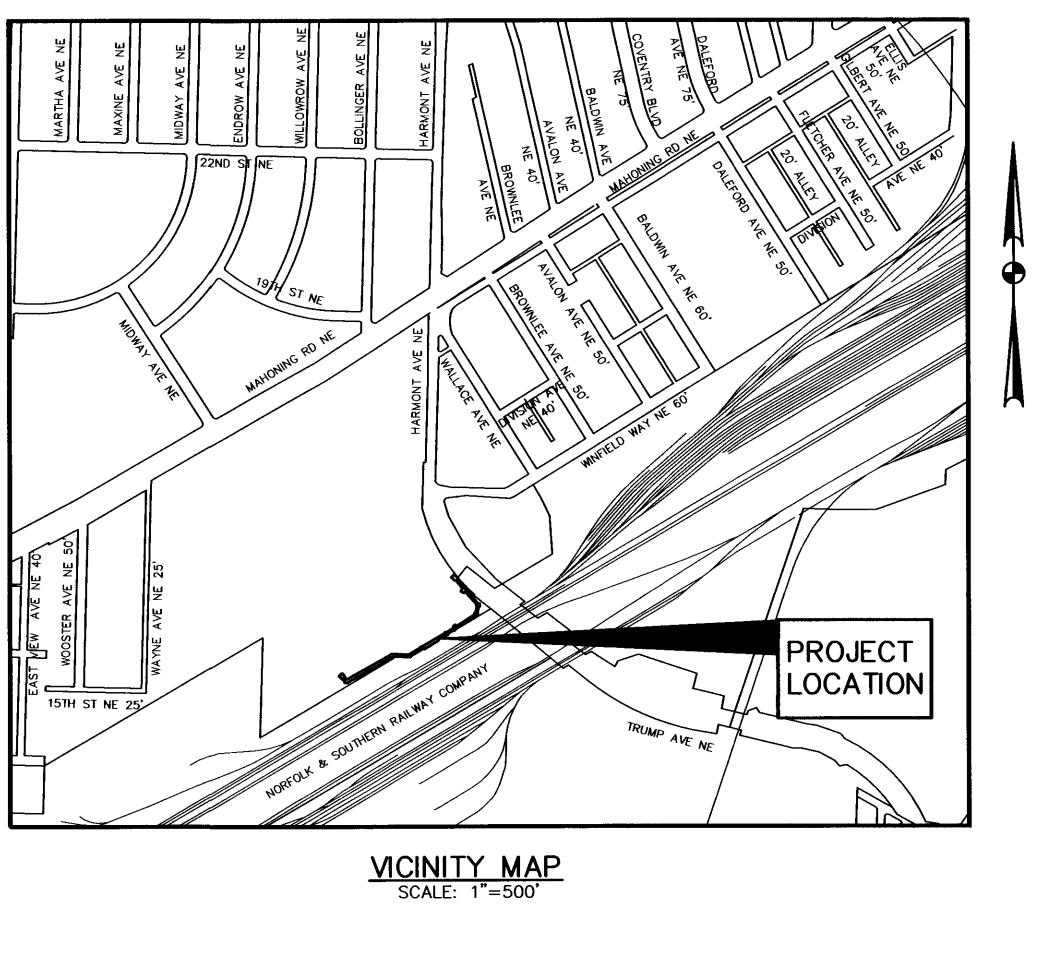
TITLE SHEET	C1
ABBREVIATIONS AND SYMBOLS	C2
GENERAL NOTES	C3-C4
GENERAL SUMMARY	C5
OVERALL SITE AND CONTROL PLAN.	C6
SEWER PLAN	C7-C8
SEWER PROFILE	C9-C10
SEWER SECTIONS	C11
PRECAST CONCRETE MANHOLE STRUCTURES	C12
CAST IN PLACE CONCRETE MANHOLE STRUCTURES AND DETAILS	C13
MISCELLANEOUS DETAILS	C14
CITY OF CANTON STANDARD DRAWINGS	C15-C18
SWPP PLAN.	C19
SWPP NOTES AND DETAILS	C20

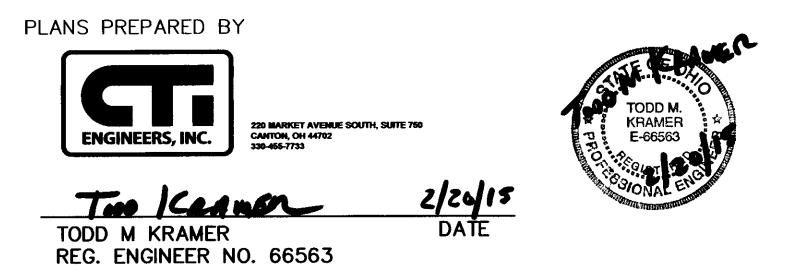


CALL TWO WORKING DAYS BEFORE YOU DIG (NON MEMBERS MUST BE CALLED DIRECTLY)

CITY OF CANTON EAST SIDE INTERCEPTOR **SEWER RELOCATION G.P. # 1113**

STARK COUNTY, STATE OF OHIO FEBRUARY 2015





Μ DIF

а.,

CITY OFFICIALS

AYOR	. WILLIAM	J. HEALY II
DIRECTOR OF PUBLIC SERVICE	. WILLIAM	BARTOS

APPROVAL 20 DATE

DANIEL J. MOEGLIN P.E., S.I. CITY ENGINEER

THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CTI ENGINEERS (CTI), WHICH SHALL BE DEEMED THE AUTHOR AND WHICH SHALL RETAIN ALL STATUTORY AND COMMON LAW RIGHTS, INCLUDING COPYRIGHTS. THIS DRAWING SHALL NOT BE SCANNED, COPIED, OR DISTRIBUTED TO OTHERS IN ANY FORM OR USED FOR ANY OTHER PURPOSE OR PROJECT WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES RELATED TO UNAUTHORIZED USE OR REUSE OF THIS DRAWING OR PORTIONS THEREOF.

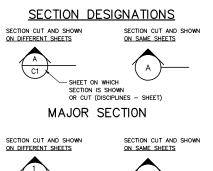
ABBREVIATIONS

SITE PLAN SYMBOLS

A		<u>G</u>
AB ACP	ANCHOR BOLT ASBESTOS CEMENT PIPE	G GA
ADJT AFF	ADJUSTABLE ABOVE FINISHED FLOOR	GAL GALV
ALT ALUM	ALTERNATIVE ALUMINUM	GBT GEN
© ASPH	AT ASPHALT	GRD
AUTO AVG	AUTOMATIC AVERAGE	<u>Н</u> нв
B		HC HDPE
BIP BF	BLACK IRON PIPE BLIND FLANGE OR	HE HK
BFP	BOTTOM FACE BELT FILTER PRESS	HM HORIZ
BLDG BLK	BUILDING BLOCK	HP HPT
BM BOS	BENCHMARK BOTTOM OF SLAB	HS HT
BOT BRG	BOTTOM BEARING	HU HVAC
<u>C</u>		HWL
C CB	CHEMICAL CATCH BASIN	HW HWR
CF CFM	CUBIC FEET CUBIC FEET PER MINUTE	HWS
CI CIP	CAST IRON CAST IRON PIPE] ID
€, C/L C/C	CENTERLINE CENTERLINE TO CENTERLINE	IF IJ
CĹ CLG	CLEAR CEILING	IN INFL
CMP CMU	CORRUGATED METAL PIPE CONCRETE MASONRY UNIT	INT INV
CO COL	CLEAN OUT COLUMN	IP J
CON CONC	CONCENTRIC CONCRETE	JT
CONN CPR	CONNECTION COPPER	L LB
CJ CONTR JT	CONSTRUCTION JOINT CONTRACTION JOINT	LG LL
CONST CONT CPLG	CONSTRUCTION CONTINUOUS COUPLING	
CTRL CW	CONTROL	LPT LR
CY	COLD WATER CUBIC YARD	LS LT
D		LTG LWL
	DRAIN	
D DEMO	DEMOLITION	м
DEMO DIA, Ø DIAG	DEMOLITION DIAMETER DIAGONAL	M MAX MCC
DEMO DIA, Ø DIAG DIG DIM	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION	MAX
DEMO DIA, Ø DIAG DIG DIM DIP DISCH	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE	MAX MCC MFR
DEMO DIA, Ø DIAG DIG DIM DIP DISCH D.L. DO	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN	MAX MCC MFR MG MGD
DEMO DIA, Ø DIAG DIG DIM DIP DISCH D.L. DO DSL DSL DS	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH	MAX MCC MFR MGD MH MISC MIN MJ MK
DEMO DIA, Ø DIAG DIG DIM DIP DISCH D.L. DO DSL	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE	MAX MCC MFR MGD MH MISC MIN MJ MK MO
DEMO DIA, Ø DIAG DIG DIP DIP DISCH D.L. DO DSL DSL DSL DTL DTL DWG	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENINC, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL	MAX MCC MFR MG MG MH MISC MIN MJ MK MO N
DEMO DIA, Ø DIAG DIG DIM DIP DISCH D.L. DO DSL DS DSL DS DSL DSL DS DSL E E	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING	MAX MCC MFR MGD MH MISC MIN MJ MK MO NC NF
DEMO DIA, Ø DIAG DIG DIM DIP DISCH D.L. DO DSL DSL DSL DSL DSL DSL DSL E E E E E E E E E E E E E E E E E E	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISOLARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH ECCENTRIC	MAX MCC MFR MGD MH MISN MJ MK MO NCF NO NO.
DEMO DIA, Ø DIAG DIG DIM DISCH DISCH DSL DSL DSL DSL DSL DSL DSL DSL DSL DSL	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTLE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE	MAX MCC MFR MGD MIN MIN MIN MIN MIN NCF NO NO NO NO NO NTS
DEMO DIA, Ø DIAG DIG DIM DIP DISCH D.L. DO DSL DSL DSL DSL DSL DSL DSL DSL E E E E E E E E E E E E E E E E E E E	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELECTRICAL	MAXC MFR MGD MIN MIN MIN MK MO NCF NO NPTS NTS NV
DEMO DIA, Ø DIAG DIAG DIM DIP DISCH DSL DSL DSL DSL DSL DSL DSL DSL DSL E E E E E E E E E E E E E E E E E E E	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELECTRICAL ELECTRICAL ELECATION ELBOW	MAXC MGC MGF MGD MISC MIN MISC MIN MSC MIN N N N N N N N N N N N N N N N N N N
DEMO DIA, Ø DIAG DIG DIM DIP DISCH D	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELECTRICAL ELEVATION ELBOW EQUIAL EACH WAY	MAXCR MGC MGH MISC MJ MM MISC MJ MK M N N N N N N N N N N N N N N N N N
DEMO DIA, Ø DIAG DIG DIM DIP DISCH D	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELECTRICAL ELEVATION ELBOW EQUAL EACH WAY EXISTING EACH WAY EXISTING EXPENSION JOINT	AXCR MGFG MMSN MMSN MMSN MMSN MMSN MMSN MMSN N N N
DEMO DIA, Ø DIAG DIG DIM DIP DISCH DSL. DO DSL. DSL DSL DSL DSL DSL DSL E E E E E E E E E E E E E E E E E E E	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EACH ECCENTRIC EACH ECCENTRIC EACH ECCENTRIC EACH ECCENTRIC ELECTRICAL ELECTRICAL ELEVATION ELBOW ECOULA ECOULAND ELBOW ECOULAND ECOULAND ECOULAND ECOULAND ECOULAND ECOULAND ECOULAND ELBOW ECOULAND	AXCR MGCR MGCR MGCR MGCR MGCR MGCR MGCR MG
DEMO DIA, Ø DIAG DIAG DIM DIP DISCH DSL DSL DSL DSL DSL DSL DSL DSL DSL DSL	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DETAIL DRAWING EAST, EASTING EACH ECCENTRIC ECQUIPMENT DRAIN EACH FACE EFFLUENT ELECTRICAL ELEVATION ELBOW EQUAL EACH WAY EXISTING EXPANSION JOINT EXPOSED EXTERIOR	AXCR GDHCS MMERG
DEMO DIA, Ø DIAG DIAG DIM DIP DISCH DSL DSL DSL DSL DSL DSL DSL DSL DSL DSL	DEMOLITION DIAMETER DIAGONAL DIGESTED DIMENSION DUCTILE IRON PIPE DISCHARGE DEAD LOAD DOGN OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELECTRICAL ELEVATION ELBOW EQUAL EACH WAY EXISTING EACH WAY EXISTING EXPANSION JOINT EXPOSED EXTERIOR	XCCR GDH CZ MMERGDH SZ MMERGDH SZ MMERGDH SZ MMERGDH SZ MARCERO SZ
DEMO DIA, Ø DIAG DIAG DIAG DISCH DIS	DEMOLITION DIAMETER DIAGONAL DIGESTED DIAGONAL DIGESTED DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELECTRICAL ELEVATION ELBOW EQUAL EXCH WAY EXISTING EACH WAY EXISTING EXCH WAY EXISTING EXCH WAY EXISTING EXPENSION JOINT EXPOSED EXTERIOR	AXCR GDHSZ MMSZ MMSZ MMSZ MZ NZ NZ NZ NZ NZ NZ NZ NZ NZ NZ NZ NZ NZ
DEMO DIA, Ø DIAG DIAG DIAG DIAG DISCH D.L. DOSL DSL DSL DSL DSL DSL DSL DSL DSL DSL D	DEMOLITION DIAMETER DIAGONAL DIGESTED DIAGONAL DIGESTED DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELEVATION ELEOW EQUAL EACH WAY EXPANSION JOINT EXPOSED EXTERIOR FRESH AIR FLOOR BOX OR FOUNDATION BEAM FLOOR DRAIN FOUNDATION DEAM FUCOR DRAIN FOUNDATION BEAM FLOOR DRAIN FOUNDATION BEAM FLOOR DRAIN FOUNDATION BEAM FLOOR DRAIN FOUNDATION BEAM FIGUESTERIOR	AXCR GDH SZ JKO Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
DEMO DIA, Ø DIAG DIA DIA DIA DIAG DIA DIA DIA DIA DIA DIA DIA DIA DIA DIA	DEMOLITION DIAMETER DIAGONAL DIGESTED DIAGONAL DIGESTED DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELEVATION ELEVATION ELEVATION ELEVATION EACH WAY EXTRION EACH WAY EXTRION EXTRICAL EXPANSION JOINT EXPOSED EXTERIOR FRESH AIR FLOOR BOX OR FOUNDATION FIRE EXTINGUISHER FINISHED FLOOR FIRE HYDRANT	AXCR GDHCS MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM
DEMO DIA, Ø DIAG DIAG DIM DIP DISCH DSL DSL DSL DSL DSL DSL DSL DSL DSL DSL	DEMOLITION DIAMETER DIAGONAL DIGESTED DIAGONAL DIGESTED DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH ECCENTRIC ECUIPMENT DRAIN EACH FACE EFFLUENT ELEVATION ELEVATION ELEVATION ELEVATION ELEVATION ELEVATION EXTRIOC FRESH AIR FLOOR BOX OR FOUNDATION BEAM FLOOR DATION FIRE EXTINGUISHER FINISHED FLOOR FIRE HYDRANT FIBERGLASS REINFORCED POLYMERS FIGURE	XCR GD C XCFR GD C XCFR GD C XCFR GD C XCFR
DEMO DIA, Ø DIAG DIAG DIAG DIAG DIAG DIAG DIAG DIAG	DEMOLITION DIAMETER DIAGONAL DIGESTED DIAGONAL DIGESTED DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EACH ECCENTRIC EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELECTRICAL ELEVATION ELBOW EQUAL EACH WAY EXISTING EACH WAY EXISTING EXPENSION JOINT EXPOSED EXTERIOR	AXCR MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM
DEMO DIA, \emptyset DIAG DIAG DIAG DIAG DIAG DIAG DIAG DIAG	DEMOLITION DIAMETER DIAGONAL DIGESTED DIAGONAL DIGESTED DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELEVATION ELEVATION ELEVATION ELEVATION ELEVATION EACH WAY EXTRIG EACH WAY EXTRIG EXPANSION JOINT EXPOSED EXTERIOR FRESH AIR FLOOR BOX OR FOUNDATION FIRE EXTINGUISHER FINISHED FLOOR FIRE HYDRANT FIBERGLASS REINFORCED POLYMERS FIGURE FLOOR FOUNDATION FIGURE FINISHED FLANGE FLOOR TENTION FOUNDATION FIGURE FINISHED FLANGE FLOOR TENTION FOUNDATION FLOW RETENTION FOOR DAIN	AXCR GD SX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
DEMO DIA, Ø DIAG DIAG DIAG DIAG DIAG DIAG DIAG DIAG	DEMOLITION DIAMETER DIAGONAL DIGESTED DIAGONAL DIGESTED DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELEVATION ELEVATION ELEVATION ELEVATION ELEVATION ELEVATION EACH WAY EXISTING EXTENIOR FRESH AIR FLOOR BOX OR FOUNDATION BEAM FLOOR DAY FIRE HYDRANT FIRE EXTINGUISHER FINISHED FLOOR FIRE HYDRANT FIRE HYDRANT FIRE HYDRANT FIRE HYDRANT FIERGLASS REINFORCED POLYMERS FIGURE FLOOR BIN FINISHED FLOOR FIRE HYDRAT	AXCR GD SX XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
DEMO DIA, Ø DIAG DIAG DIAG DIAG DIAG DIAG DIAG DIAG	DEMOLITION DIAMETER DIAGONAL DIGESTED DIAGONAL DIGESTED DIAGONAL DIGESTED DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DRAWING EAST, EASTING EACH EACH EACH EACH ECCENTRIC EQUIPMENT DRAIN EACH EACH ECCENTRIC EQUIPMENT DRAIN EACH EACH EFLUENT ELEVATION ELEOW EQUAL EACH WAY EXISTING EXPANSION JOINT EXPOSED EXTENIOR FRESH AIR FLOOR BOX OR FOUNDATION BEAM FLOOR DRAIN FIRE EXTINGUISHER FINISHED FIRE HYDRANT FIBERGLASS REINFORCED FLOOR FLOW RETENTION FIBERGLASS REINFORCED FLOOR FIDE FLOW RETENTION FIBERGLASS REINFORCED PLANGE FLOOR FIDE FIDERGLASS REINFORCED PLANGE FLOW RETENTION FIBERGLASS REINFORCED PLANGE FLOW RETENTION FIBERGLASS REINFORCED PLANGE FLOW RETENTION FIBERGLASS REINFORCED PLANGE FLOW RETENTION FIBERGLASS REINFORCED PLANGE FLOW RORTAR PIPE	AXCR MMFRGDHSZ MMSZ MMSZ MMSZ MMZZ MZZZ MOODFHGPZ PPPPPPPPPPPPPPPPPPPPPPP PPPPPPPPPPP
DEMO DIA, Ø DIAG DIAG DIAG DIAG DIAG DIAG DIAG DIAG	DEMOLITION DIAMETER DIAGONAL DIGESTED DIAGONAL DIGESTED DISCHARGE DEAD LOAD DOOR OPENING, DISSOLVED OXYGEN DIGESTED SLUDGE DOWN SPOUT OR DICONNECT SWITCH DETAIL DETAIL DETAIL DRAWING EACH ECCENTRIC EQUIPMENT DRAIN EACH FACE EFFLUENT ELECTRICAL ELEVATION ELBOW EQUAL EACH WAY EXISTING EACH WAY EXISTING EACH WAY EXISTING EACH WAY EXISTING EACH WAY EXISTING EACH WAY EXISTING EACH WAY EXISTING EACH WAY EXISTING EACH WAY EXISTING EXPENSION JOINT EXPOSED EXTERIOR FRESH AIR FLOOR BOX OR FOUNDATION BEAM FOUNDATION BEAM FOUNDATION BEAM FINISHED FLOOR FIRE EXINGUISHER FINISHED FLOOR FLOOR CALS REINFORCED POLYMERS FIGURE FINISHED FLANGE FLOOR EXINFORCED FLOW RETENTION FOURCE MAIN FOURCE MAIN FOURCE MAIN FOURCE MAIN FOURCE SENIFORCED FLOW RETENTION FOURCE MAIN FOURCE MAIN FOURCE MAIN FOURCE MAIN FOURCE MAIN FOURCE MAIN FOURCE SENIFORCED FLOW RETENTION FORCE MAIN FOURCE M	AXCR MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM

<u>ABBREV</u>	<u>IATIONS</u>
G GA GAL GALV GBT GEN GRD	GAS GAUGE OR GAGE GALLON GALVANIZED GRAVITY BELT THICKENER GENERAL GRADE OR GRADING
L HB HDPE HE HK HM HORIZ HP HPT HS HT HV HVAC HWL HWR HWR HWR HWR	HOSE BIBB HOLLOW CORE HIGH DENSITY POLYETHYLENE HEAT EXCHANGER HOOK(S) HOLLOW METAL HORIZONTAL HORSEPOWER HIGH POINT HEATING UNIT HEATING UNIT HEATING VENTILATION AIR CONDITIONING HIGH WATER LEVEL HOT WATER RETURN HOT WATER RETURN HOT WATER SUPPLY
	INSIDE DIAMETER INSIDE FACE ISOLATION JOINT INCHES INFLUENT INTERSECTION INVERT IRON PIN
JT LB LG LLH LLY LPT LS LT LTG LWL	JOINT POUND LENGTH LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT LONG RADIUS LOW SERVICE LEFT LIGHTING LOW WATER LEVEL
M MAX MCC MFR MG MGD MH MISC MIN MJ MK MO	MAXIMUM MOTOR CONTROL CENTER MANUFACTURER MILLION GALLONS PER DAY MANHOLE MISCELLANEOUS MINIMUM MECHANICAL JOINT MARK MASONRY OPENING OR MOTOR OPERATED
N NC NF NO NPW NTS NWL	NORTH, NORTHING NORMALLY CLOSED NEAR FACE NORMALLY OPEN NUMBER NON-POTABLE WATER NOT TO SCALE NORMAL WATER LEVEL
Q OC OPG OPF OPF OZ PCF PCF PCF PE PLCS PLCS PLCS PLCS PLCS PLCS PLCS PNL POT PSF PSF PSF PSF PSF PSF PVC PVMT PWD	ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OVERHEAD OPENING OPPOSITE OUNCE POUNDS PER CUBIC FOOT PUMP CONTROL PANEL PLAIN END PREMOLDED EXP. JT. MATERIAL PLATE PLACES PLANT PANEL POLYPROPYLENE PROFOSED POLYPROPYLENE PROPOSED PUMP STATION POUNDS PER SQUARE INCH POLYNNYL CHLORIDE PAVEMENT POLYBLE WATER PLYWOOD

0		
<u>Q</u> QUAN	QUANTITY	
R RAD RAS RB RCP RD RECIRC RED REINF REQ'D RM RT RT R/W	RISE RADIUS RETURNED ACTI ROOF BEAM REINFORCED CO ROOF DRAIN RECIRCULATION REDUCER REINFORCING REQUIRED ROOM RIGHT OF WAY	
<u>s</u>		
SAN SAN SCH SCF SHT SJM SPEC SPG SS STA STA STA STA STA STA STA STA STA	SLAB, SOUTH SANITARY SCHEDULE SECTION SOUARE FEET SAW JOINT SIMILAR SPACES SPECIFICATION SPACING SOUARE STAINLESS STE STRAIGHT STATION STANDARD STRUCTURAL STORM SEWER SUPERNATENT SOUARE YARD SYMMETRICAL SWITCH	EL
TBM TF	TEMPORARY BE	ENCHMARK
THK THKD TOB TOC TOS T&B TC T&G TP	THICKNESS THICKENED TOP	OM GROOVE OR
TRANS TYP	TRANSFER TYPICAL	.,
U UE UT	UNDERGROUND UNDRGROUND	ELECTRIC TELEPHONE
V V VAR	VACUUM VARIES	
VCP VERT	VITRIFIED CLAY	PIPE
W WAS W/W/W/O WC WD WHA WLA WWF	WASTE ACTIVA WATER OR WID WITH WITHOUT WATER CLOSET WATER HEATER WATER HEATER WATER LEVEL WELDED WIRE F	E R ARRESTER OR WATER LINE
<u>Ү</u> ҮН	YARD HYDRAN	г
		<u>SIGNATIONS</u>
SECTION C	UT AND SHOWN ENT SHEETS	SECTION CUT AND ON SAME SHEETS





PL		PROPERTY LINE	G
CL		CENTERLINE LINE	L'u
BL		BASELINE	\sim
R/W		RIGHT OF WAY LINE	Q
<u> </u>		PROPOSED CONTOUR	R
123		EXISTING CONTOUR	٢
+ ^{123.45}		NEW GRADE SPOT ELEVATION	$\overline{\phi}$
			P
$+^{^{123.45}}$		EXISTING GRADE SPOT ELEVATION	€
		EDGE OF WATER	\mathcal{P}
~~~		DRAINAGE FLOW	φ
	C	EXISTING CATCH BASIN, MANHOLE	Þ
	0	PROPOSED CATCH BASIN, MANHOLE	Ø
	$\bigcirc$	ADJUST TO GRADE CATCH BASIN, MANHOLE	
$\otimes^{G}$	$\otimes^{W}$	GAS, WATER VALVE BOX	

● B-# ××	SOIL BORING NUMBER	-0-	У	FIRE HYDRANT, YARD HYDRANT
xx	PROPOSED FENCE	—0 ^{co}	$\oslash$	CLEANOUT, FLOOR DRAIN
<u>0 0 0</u> • • •	EXISTING GUARDRAIL, PROPOSED GUARDRAIL	•	0	IRON PIN SET, IRON PIN FOUND
PL	PROPERTY LINE CENTERLINE LINE	Ĥ	SM3 Sm3	TREE, SHRUB
—BL R/W	BASELINE RIGHT OF WAY LINE	$\bigcirc$		BRUSH, EVERGREEN
<u> </u>	PROPOSED CONTOUR	Þ	Ø	POWER POLE, LIGHT POLE
+ ^{123.45}	NEW GRADE SPOT ELEVATION	∳ €	$\rightarrow$	TELEPHONE POLE, GUYED WIRE
+ ^{123.45}	EXISTING GRADE SPOT ELEVATION - EDGE OF WATER DRAINAGE FLOW	Þ		POWER AND TELEPHONE POLE
	EXISTING CATCH BASIN, MANHOLE	Þ		TELEPHONE, POWER, CABLE AND LIGHT POLE
	ADJUST TO GRADE CATCH BASIN, MANHOLE			

#### STRUCTURAL/ARCHITECTURAL LEGEND

	PROPOSED CONCRETE (4,000 PSI)		ACOUSTICAL
	EXISTING CONCRETE		DEMOLITION
	PROPOSED CONCRETE (2,000 PSI)	<u>a)))))</u>	WOOD
	CMU		STEEL
	CONCRETE BLOCK		ALUMINUM
	CONCRETE BLOCK W/ FILLED CORES		GRAVEL OR COMPACTED FILL
	FACE BLOCK OR BRICK		EARTH
	METAL WALL FRAMING		INSULATION
	GLAZED TILE		DEMOLITION
<u>ד</u>	EXT LEGEN	<u>1D</u>	
EXISTING TEXT PROPOSED TEXT		LIGHTER TEXT - BOLDER TEXT - F	EXISTING FEATURES PROPOSED WORK

### PAVING LEGEND

 GRAVEL PAVING
CONCRETE SIDE WALK
ASPHALT PAVING
CONCRETE PAVING

	THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CTI ENGINEERS (CTI), WHICH SHALL BE	DEEMED THE AUTHOR AND WHICH SHALL RETAIN ALL STATUTORY AND COMMON LAW RIGHTS.	INCLUDING COPYRICHTS. THIS DRAWING SHALL NOT BE SCANNED COPIED OR DISTRIBUTED TO OTHERS	IN ANY FORM OR USED FOR ANY OTHER PURPOSE	OR PROJECT WITHOUT PRIOR WRITTEN CONSEQUENCES CTL CTL IS NOT RESPONSIBLE FOR CONSEQUENCES	THIS DRAWING OR PORTIONS THEREOF.		
REVISIONS	). DESCRIPTIONS DATE BY APP'D							
DESIGNED BY	TMK	DRAWN BY	ALP	СНЕСКЕВ ВУ	TMK	APPROVED BY	MAD	
CANTON, OHIO	CANTON, OHIO EAST SIDE INTERCEPTOR SEWER RELOCATION G.P. #1113 ABBREVIATIONS AND SYMBOLS							
	ENGINEERS, INC. Z20MERT AFENUE SOUTH, SUITE 790 Z3044557733							
	JOB NO. E13029 DATE 9/2014 SCALE NONE SHEET NO C2							

#### I. PRECONSTRUCTION INCIDENTALS

#### (A) PROJECT SPECIFICATIONS/REQUIREMENTS:

ALL WORK REQUIRED TO COMPLETE THIS IMPROVEMENT SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS/REQUIREMENTS OF THE CITY OF CANTON AND THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, EXCEPT AS HEREIN AMENDED. IN THE CASE OF A CONFLICT BETWEEN THE CITY OF CANTON AND THE OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS/REQUIREMENTS, THE CITY OF CANTON REQUIREMENTS WILL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

THE CONTRACTOR SHALL COMPLY WITH THE CITY OF CANTON SUPPLEMENTAL SPECIFICATION 01-00 PROJECT DOCUMENTATION AND SUBMITTAL REQUIREMENTS.

THE CONTRACTOR SHALL WORK DAILY WITH ERESH MARK TO COORDINATE DELIVERIES. MAINTAINING ACCESS FOR FRESH MARK DELIVERIES IS PARAMOUNT.

#### (B) ADMINISTRATIVE REQUIREMENTS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COMPLYING WITH ALL THE ADMINISTRATIVE DUTIES HEREIN CONTAINED

THE CONTRACTOR SHALL DESIGNATE TO THE CITY AN EMPLOYEE RESPONSIBLE FOR CORRESPONDENCE, NOTIFICATIONS, AND SUBMITTALS PERTINENT TO THE PROJECT.

#### (C) PRECONSTRUCTION MEETING:

A PRECONSTRUCTION MEETING WITH THE DEVELOPER, CONTRACTOR, REPRESENTATIVES OF ALL UTILITY COMPANIES, THE CITY OF CANTON ENGINEERING DEPARTMENT AND THE CITY OF CANTON WATER DEPARTMENT IS REQUIRED FOR THIS PROJECT PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

FOR SUBDIVISION DEVELOPMENTS, THE DEVELOPER SHALL CONTACT THE CITY ENGINEER'S OFFICE TO ARRANGE A MEETING DATE. THE DEVELOPER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

FOR CITY GENERAL PROJECTS, THE CITY ENGINEER WILL CONTACT THE CONTRACTOR TO ARRANGE A MEETING DATE. THE CITY ENGINEER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

IF THE PROPOSED PROJECT LAND-DISTURBANCE AREA IS ONE (1) OR MORE ACRES, A SEPARATE PRE-CONSTRUCTION MEETING IS ALSO REQUIRED. THIS MEETING SHALL OCCUR ON-SITE BETWEEN THE CONTRACTOR AND THE STARK SOIL & WATER CONSERVATION DISTRICT (SWCD). THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING THIS MEETING. NO LAND-DISTURBANCE ACTIVITIES SHALL START UNTIL SAID MEETING HAS OCCURRED AND APPROVAL HAS BEEN GRANTED BY STARK SWCD.

#### (D) PROJECT SAFETY:

THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT THE PROJECT SITE AT ALL TIMES. THE CONTRACTOR SHALL PROPERLY SUPPORT AND/OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL O.S.H.A. REGULATIONS. APPROPRIATE BARRICADES, WARNING LIGHTS, SIGNS, FENCING, ETC. SHALL BE ERECTED AROUND THE CONSTRUCTION AREA DURING ALL NON-WORKING HOURS TO ALERT PERSONS OF THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS BY UNAUTHORIZED PERSONNEL TO THE CONSTRUCTION SITE/AREA. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE GENERAL PUBLIC AS WELL AS ALL CONSTRUCTION PERSONNEL. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE OF DEBRIS (MUD, STONE, ETC.) AT ALL TIMES. THE CONTRACTOR SHALL ALERT ALL LOCAL ÉMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGÍNNING AND CONSTRUCTION ACTIVITY. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

#### (E) UNDERGROUND UTILITIES:

A

Ø 44 05

٦<u></u>

2/20/20

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS, AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT; HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIFY THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.

#### (F) UTILITY NOTIFICATION:

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OPERATIONS ON THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER, THE REGISTERED UTILITY PROTECTION AGENCY/SERVICE, AND THE OWNERS OF THE CITY ENGINEER. THE CONTRACTOR SHALL NOT ORDER ANY REGISTERED UTILITY PROTECTION AGENCY/SERVICE, AND THE OWNERS OF ANY OTHER UTILITIES (PUBLIC AND/OR PRIVATE) THAT MAY HAVE UTILITY LINES OR FACILITIES WITHIN THE VICINITY OF THIS PROJECT BUT WHO ARE NOT MEMBERS OF THE REGISTERED UTILITY PROTECTION SERVICE. THE OWNERS OF ANY UNDERGROUND UTILITY FACILITY SHALL, WITHIN 48 HOURS AFTER NOTICE IS RECEIVED, EXCLUDING SATURDAYS, SUNDAYS AND OTHER LEGAL HOLIDAYS; STAKE, MARK OR OTHERWISE DESIGNATE THE EXISTENCE AND/OR LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING AND/OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO WORKING DAYS AHEAD OF THE PLANNED CONSTRUCTION.

#### OHIO UTILITIES PROTECTION SERVICE: 1-800-362-2764 (CONTACT NON-MEMBERS DIRECTLY)

**TELEPHONE** AT&T

ELECTRIC

50 WEST BOWERY STREET

EMERGENCY NO. - 24 HRS. 1-800-572-4545 OPTION#4

AMERICAN ELECTRIC POWER

CANTON, OHIO 44701-4400

2664 HARRISBURG RD. N.E. CANTON. OHIO 44708

ATTN: DWIGHT PARRISH

301 CLEVELAND AVE. S.W.

AKRON, OHIO 44308 330–384–8057

ATTN: JIM BUETEL

P.O. BOX 24400

330-438-7762

EMERGENCY No

<u>WATER</u>

1-800-672-2017

WATER DEPARTMENT

330-489-3310

ATTN: LEWI MILLER

THE PRIMARY UTILITIES WITHIN THE CITY OF CANTON AREA:

NATURAL GAS DIST./TRANS. DOMINION EAST OHIO GAS 320 SPRINGSIDE DR. AKRON OHIO 44.3.3.3 330-664-2409 ATTN: MARY LONG RELOCATION@DOM.COM EMERGENCY NO. 1-800-521-4400

COMMUNICATIONS CABLE TIME WARNER CABLE 5520 WHIPPLE AVE N.W. NORTH CANTON, OHIO 44720 330-494-9200, EXT. 87

SANITARY AND STORM SEWER CITY ENGINEER'S OFFICE 24.36-30TH ST. N.F. CANTON, OHIO 44705 330-489-3381 ATTN: DAN MOEGLIN

THE CITY ENGINEER'S OFFICE IS TO BE CONTACTED DIRECTLY FOR SANITARY AND STORM SEWER AND TRAFFIC INTERCONNECT FACILITIES LOCATION: 330-489-3381.

#### (G) PROPOSED PUBLIC UTILITY LOCATION IN PROPOSED SUBDIVISIONS:

THE CONTRACTOR AND REPRESENTATIVES OF THE CITY OF CANTON SHALL MEET WITH REPRESENTATIVES OF THE VARIOUS PUBLIC UTILITY COMPANIES (EAST OHIO GAS, AMERICAN ELECTRIC POWER, AMERITECH, WARNER CABLE, ETC.) TO DETERMINE THE APPROPRIATE LOCATION FOR THESE UTILITIES WITHIN THE PROJECT SITE. ONCE AN AGREEMENT HAS BEEN REACHED, IT SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNERS TO INSPECT THE INSTALLATION OF THE VARIOUS PUBLIC UTILITY LINES WITHIN THE ROAD RIGHT-OF-WAY TO ENSURE THAT CONFLICTS ARE AVOIDED AND ADEQUATE CLEARANCE AND OFFSETS WITH OTHER UTILITIES ARE MAINTAINED. UTILITY COMPANIES SHALL SUBMIT PLANS INDICATING THEIR PROPOSED IMPROVEMENTS AND FACILITIES TO THE CITY OF CANTON FOR APPROVAL. THE SITE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE INSTALLATION OF THE OTHER UTILITIES NOT OWNED BY THE CITY.

#### (H) EXPLORATORY BORINGS:

EXPLORATORY SOIL BORING INFORMATION IS NOT THE RESPONSIBILITY OF THE CITY OF CANTON. IT IS THE CONTRACTOR RESPONSIBILITY TO REVIEW ANY AND ALL INFORMATION AVAILABLE. IF CONTRACTOR REQUESTS TO DRILL AND OR EXCAVATE WITHIN THE CITY'S R/W, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY NOTIFICATION, AS SPECIFIED, ALL TRAFFIC CONTROL, PREMIUM BACKFILL, AND COMPACTION AND RESTORATION, AS NECESSARY.

#### (I) CONTINGENCY QUANTITIES:

CONTINGENCY MATERIAL OR PERFORM ANY WORK UNTIL DIRECTED BY THE ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE CONTRACTOR AND THE ENGINEER.

#### **II. CONSTRUCTION INCIDENTALS**

#### (A) PLAN DISCREPANCIES:

ANY DISCREPANCIES FROM THE PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT THE APPROPRIATE ADJUSTMENTS IN ALIGNMENT AND/OR GRADE MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE SAME.

FAILURE BY THE CONTRACTOR TO VERIFY AND/OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.

#### (B) VERIFICATION OF UNDERGROUND UTILITIES:

THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACILITIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATORY EXCAVATIONS TO BE PERFORMED BY THE CONTRACTOR FOR WHICH HE WILL NOT BE REIMBURSED. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITS WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO INSTALL THE PROPOSED CONDUIT

#### (C) PROTECTION OF UTILITIES:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AS APPROVED BY THE OWNERS OF THE UTILITY AND THE CITY ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO CLOSELY COORDINATE THEIR WORK WITH ALL UTILITY COMPANIES; ANY POTENTIAL DELAYS WILL NOT BE THE RESPONSIBILITY OF THE

THE CONTRACTOR SHOULD EXPECT AT A MINIMUM ONE SANITARY SEWER LATERAL, ONE ROOF DRAIN, ONE WATER SERVICE, AND ONE GAS SERVICE FOR EACH LOT. ANY OF THE ABOVE UTILITIES DAMAGED DUE TO THE CONTRACTOR'S WORK SHALL BE RESTORED TO THE UTILITY OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

#### (D) MAINTENANCE OF UTILITY SERVICES:

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UTILITY SERVICES AT ALL TIMES.

WATER SERVICE MAY BE INTERRUPTED FOR LIMITED PERIODS (4 HOURS MAXIMUM) DURING CONNECTION BETWEEN EXISTING WATER LINES AND RELOCATED/NEW WATER MAINS WHICH CANNOT BE COMPLETED OTHERWISE. NO SHUT DOWN SHALL OCCUR WITHOUT WRITTEN PERMISSION OF THE CITY OF CANTON WATER DEPARTMENT. PROPERTY OWNERS AFFECTED BY APPROVED WITERUPTED SERVICE SHALL BE NOTHER 48 HOURS IN ADVANCE BY THE CONTRACTOR.

STORM SEWER AND SANITARY SEWER SERVICES SHALL BE MAINTAINED WITHOUT INTERRUPTION, UNLESS APPROVED BY THE CITY ENGINEER

IN THE EVENT THAT CONSTRUCTION DISRUPTS THE FLOW OF A SANITARY SEWER, THE CONTRACTOR SHALL IMMEDIATELY RECTIFY THE DISRUPTED SEWER BY EITHER TEMPORARILY FLUMING WITH MATERIALS ACCEPTABLE TO THE ENGINEER OR BYPASSING WITH PUMPS. COST OF MAINTAINING AND REPAIR OF SANITARY SEWERS DISTURBED BY CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS

#### (E) CONSTRUCTION NOIS

CONSTRUCTION NOISE A PROJECT SHALL BE LIM ADJOINING LAND AND T BY THE CITY ENGINEER. CONSTRUCTION NOISE CONSTRUCTION-TYPE D BETWEEN THE HOURS ( AUTHORIZED BY THE CI

#### (F) OPEN TRENCH CON

THE CONTRACTOR SHAL EXCAVATION/TRENCHING OR AS FURTHER SHOW

THE CONTRACTOR SHALL SAFETY REGULATIONS, PART 1926 (SAFETY AN SUBPART P (EXCAVATIO RESPONSIBILITIES.

PRIOR TO COMMENCING NOTIFY THE CITY ENGIN PERSON" IN OSHA EXC.

#### (G) TRENCH CLOSING A

THE CONTRACTOR SHAL NECESSARY LEVELS OF OPEN TRENCHES, WHEN END OF THE DAY OR

#### (H) DUST CONTROL:

THE CONTRACTOR SHAL CALCIUM CHLORIDE FOR ENGINEER. SUFFICIENT SHALL BE STORED ON USED FOR DUST CONTI

#### (I) TESTING OF UTILITIES

ALL NEWLY CONSTRUCT (INCLUDING LATERALS) AND TESTED IN ACCORL (AWWA, ETC.) PER THE AGENCY AND PER THE WATER AND ENGINEERIN

SANITARY SEWERS SHAL ACCORDANCE WITH THE SPECIFICATIONS:

## 04-01 STANDARD

#### MANHOLES

SANITARY AND STORM S SHALL BE TELEVISED B ITEM IS PROVIDED IN A SUPPLEMENTAL SPECIFIC

> 05-01 SEWER TEL PROCEDU

INSTRUCTION NOISE: RUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT T SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH IING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED E CITY ENGINEER. IN ORDER TO MINIMIZE ANY ADVERSE RUCTION NOISE IMPACTS, ANY POWER-OPERATED RUCTION-TYPE DEVICES SHALL NOT BE OPERATED EN THE HOURS OF 7:00 P.M. AND 7:00 A.M. UNLESS RIZED BY THE CITY ENGINEER. EN TRENCH CONSTRUCTION: DNTRACTOR SHALL BE RESPONSIBLE FOR ALL ATION/TRENCHING PRACTICES FOR THE PROPOSED IMPROVEMENT, FURTHER SHOWN ON THE PLANS AND SPECIFICATIONS.	THIS DRAWING IS AN INSTRUMENT OF SERVCE OWNED BY COT EXCIDENCE (COT), MUCH OF SAALL BE DEERED THE AUTORP AND WHICH SHALL BET ALL STATUTORY AND COMMON LUM RICHTS. INCLUNING COPPRENTS. THIS DRAWING SHALL RICLUNING COPPRENTS. THIS DRAWING SHALL OF RECOMPONENT OF DRAWING SHALL OF DRAWING SHALL RICLUNING COPPRENTS. THIS DRAWING SHALL OF RECOMPONENT OF DRAWING SHALL OF DRAWING SHALL CT TO IS NOT RESPONSIBLE FOR CONSERVER OF FILL RED TO UNAUTHORIZED USE OR FRUCES RELATED TO UNAUTHORIZED USE OR RELATED THIS DRAWING OR PORTIONS THEREOF.
DNTRACTOR SHALL FOLLOW ALL APPLICABLE LOCAL AND STATE REGULATIONS, INCLUDING CODE OF FEDERAL REGULATIONS,	Q, ddy
1926 (SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION), RT P (EXCAVATIONS), FOR ALL APPLICABLE REQUIREMENTS AND NSIBILITIES.	BY
TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL THE CITY ENGINEER OF THE PROJECT'S ASSIGNED "COMPETENT N" IN OSHA EXCAVATION STANDARDS.	DATE
ENCH CLOSING AND TEMPORARY TOPPING:	NS
ONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE SARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL TRENCHES, WHEN WORK IS EITHER COMPLETED AT THE F THE DAY OR SUSPENDED FOR ANY OTHER REASON.	DESCRIPTIONS
IST CONTROL:	
ONTRACTOR SHALL FURNISH AND APPLY WATER AND M CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ER. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE BE STORED ON THE JOB SITE AT ALL TIMES TO BE FOR DUST CONTROL.	DESIGNED 1 DEARNE 9 DRAWN 8 AUP OHECKED 1 TMK APPROVED
TING OF UTILITIES:	۲.
WLY CONSTRUCTED WATERLINES, SANITARY SEWERS DING LATERALS) AND FORCE MAINS MUST BE INSTALLED ESTED IN ACCORDANCE WITH APPLICABLE STANDARDS ETC.) PER THE OHIO ENVIRONMENTAL PROTECTION Y, AND PER THE REQUIREMENTS OF THE CITY OF CANTON AND ENGINEERING DEPARTMENTS.	ON, OHIO E INTERCEPTO RELOCATION . #1113 . AL NOTES
RY SEWERS SHALL BE TESTED BY CONTRACTOR IN DANCE WITH THE CITY OF CANTON'S SUPPLEMENTAL ICATIONS:	CANTON ST SIDE IN SEWER REL G.P. # GENERAL
02-00 TESTING FOR EXCESSIVE DEFLECTION FOR NON- PRESSURE THERMOPLASTIC SEWER PIPE.	AST C SEW C
04-01 STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE TEST.	Ш
RY AND STORM SEWERS CONSTRUCTED WITH THIS PROJECT BE TELEVISED BY THE CONTRACTOR ONLY WHEN A PAY S PROVIDED IN ACCORDANCE WITH CITY OF CANTON'S EMENTAL SPECIFICATION:	
05-01 SEWER TELEVISION INSPECTION AND DOCUMENTATION PROCEDURE.	ENGINEERS, INC.
	JOB NO.
	E13029 DATE 9/2014
	SCALE AS SHOWN
	SHEET NO

#### II. CONSTRUCTION INCIDENTALS (continued)

#### (J) PRESERVATION AND RESTORATION OF DISTURBED FEATURES:

EXISTING DRIVES, BERMS, LAWNS, PAVEMENTS, CURBS, SIDEWALKS, SIGNS, MAILBOXÉS, FENCES, RETAINING WALLS, LANDSCAPING ITEMS, OR OTHER APPURTENANCES DISTURBED DURING CONSTRUCTION BUT NOT SPECIFICALLY DESIGNATED FOR REMOVAL /REPLACEMENT SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO DISTURBANCE AND TO THE COMPLETE SATISFACTION OF THE CITY ENGINEER

RESTORATION OF EXISTING ROADWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, TOWNSHIP, COUNTY, AND/OR OTHER AGENCIES HAVING AUTHORITY. COST FOR THE RESTORATION OF THESE ITEMS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR, UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIFICATIONS. NO PUBLIC ROADWAY SHALL BE DISTURBED WITHOUT PRIOR WRITTEN APPROVAL FROM THE GOVERNING AGENCY AND ACQUISITION OF NECESSARY PERMITS.

#### (K) SALVAGED CASTINGS:

WHEN DIRECTED BY THE CITY ENGINEER, ALL METAL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED ON SITE OR DELIVERED TO A LOCATION DESIGNATED BY THE CITY ENGINEER.

#### (L) PLUG EXISTING CONDUIT:

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN THE CITY OF CANTON SHALL NOT BE RESPONSIBLE FOR THE TYPE EXISTING CONDUIT TO BE ABANDONED.

BULKHEADS SHALL CONSIST OF BRICK AND/OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PAYMENT FOR PLUGGING OF EXISTING CONDUIT FOR ABANDONMENT SHALL BE INCLUDED IN THE UNIT BID OF THE VARIOUS ITEMS OF THE PROJECT

#### (M) CONSTRUCTION LAYOUT:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT UTILIZING PERTINENT PLAN DATA. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR STAKING HORIZONTAL OR VERTICAL CONTROL CONSTRUCTION LAYOUT SHALL BE IN ACCORDANCE WITH ODOT 623 CONSTRUCTION LAYOUT STAKES.

AT THE CITY ENGINEER'S REQUEST, THE CONTRACTOR SHALL MAKE AVAILABLE ALL SURVEY FIELD NOTES FOR REVIEW.

#### (N) EXISTING MONUMENTATION:

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND/OR ANY TYPE OF LAND MONUMENT. THE CONTRACTOR SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. THE CONTRACTOR SHALL REPLACE/RESET ANY DISTURBED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

#### (O) ELEVATION DATUM:

ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.

#### (P) DEWATERING OPERATIONS

WHEN DEEMED NECESSARY, THE CONTRACTOR MAY INSTALL DEWATERING EQUIPMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION DEWATERING IS INCIDENTAL AND WILL NOT BE A SEPARATE PAY ITEM.

THE PROPOSED LOCATION OF WELL POINTS, HEADER PIPE, ELECTRICAL DISTRIBUTION, GENERATORS AND DISCHARGE PIPES, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

CONTRACTOR SHALL PREPARE AND SUBMIT A DEWATERING PLAN TO THE CITY ENGINEER'S OFFICE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT DATED 11/20/2013 PAGE 6 "GROUND WATER CONTROL" WHICH IS LOCATED IN APPENDIX "A" SUBSURFACE INVESTIGATION INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS FOR THE INSTALLATION AND SUBSEQUENT REMOVAL OF DEWATERING EQUIPMENT AS 10 "PRECAST STORM OR SANITARY MANHOLE" WELL AS PROPER WATER DISCHARGE PROCEDURES AS MAY BE REQUIRED PER STATE AND LOCAL GOVERNING AGENCIES

INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING GROUNDING AND PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR SHALL PROVIDE ALL COMBUSTIBLE ENGINE DRIVEN GENERATORS WITH "HOSPITAL GRADE" MUFFLERS. MUFFLERS SHALL BE RATED, AT A MAXIMUM OF 67 dB AT 23 FEET AWAY RUNNING FULL LOAD

#### (Q) INSPECTION:

FOLLOWING THE PRE-CONSTRUCTION MEETING(S) AND ESTABLISHMENT OF AN APPROVED SCHEDULE, THE CONTRACTOR SHALL GIVE A MINIMUM 48 HOUR NOTICE REFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY INFORMED OF HIS/HER CONSTRUCTION SCHEDULE. ALL WORK REQUIRED FOR THIS IMPROVEMENT SHALL BE SUBJECT TO INSPECTION BY THE CITY OF CANTON OR THEIR DESIGNATED REPRESENTATIVE. NO WORK SHALL BE PERFORMED WITHOUT AN AUTHORIZED INSPECTOR PRESENT, UNLESS OTHERWISE APPROVED.

#### (R) FIELD OFFICF:

IF A PAY ITEM IS PROVIDED, THE CONTRACTOR SHALL PROVIDE A FIELD OFFICE IN ACCORDANCE WITH ODOT 619. THE FIELD OFFICE SHALL BE TYPE 'A', UNLESS OTHERWISE SPECIFIED.

#### III. EARTHWORK / SITE WORK

#### (A) EASEMENTS AND RIGHT-OF WAY:

THE CONTRACTOR SHALL STAY WITHIN THE DESIGNATED PROPERTIES, EASEMENTS, AND/OR RIGHT-OF-WAY PROVIDED FOR THE PROJECT AT ALL TIMES. NO MATERIAL SHALL BE STORED NOR ANY WORK PERFORMED ON PRIVATE PROPERTY UNLESS OTHERWISE APPROVED. DISTURBANCE OF EXISTING FEATURES AND/OR IMPROVEMENTS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND AS APPROVED BY THE CITY ENGINEER/PROPERTY OWNER.

#### (B) SUITABILITY OF SITE:

AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. ÉCONTRACTOR MUST APPRAISE THEMSELVES OF ANY EXISTING SITE CONDITIONS WHICH MAY AFFECT THEIR BID OR THE PERFORMANCE OF THE REQUIRED WORK. THE CONTRACTOR SHALL PERFORM ANY INVESTIGATIONS AND/OR TESTING NECESSARY TO ADEQUATELY DETERMINE/ESTIMATE TO THEIR SATISFACTION ALL SITE CONDITIONS WHICH COULD AFFECT THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE, BUT NOT BE LIMITED TO, UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR EREE), SPRINGS, ETC.

REFER TO CITY STANDARD DRAWING NO. 19 FOR ADDITIONAL DETAILS.

#### (C) REMOVAL/REPLACEMENT OF UNSUITABLE MATERIAL:

THE CONTRACTOR SHALL UNDERCUT AND REPLACE UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF THE PROPOSED UTILITIES AND ROADWAY IN ACCORDANCE WITH CITY STANDARD DRAWING NO. 19.

#### IV. ROADWAY / DRIVE APPROACHES / WALK / CURB

#### (C) ASPHALT/CONCRETE:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF ASPHALT OR CONCRETE. WORK SHALL NOT PROCEED UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE CITY ENGINEER

#### <u>V. SANITARY SEWERS / STORM SEWERS</u>

#### (A) SEWER STANDARDS:

ALL SANITARY/STORM SEWER CONDUITS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO APPLICABLE CITY STANDARD DRAWINGS AND SPECIFICATIONS (LISTED BELOW) AND ODOT SPECIFICATIONS FFFFCTIVE AT THE TIME OF CONSTRUCTION, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

#### CITY STANDARD DRAWING NO .:

MANHOLES 11 "OUTSIDE DROP CONNECTION FOR SANITARY MANHOLE" 12 "MANHOLE COVER

#### CONDUITS AND TRENCHES 19 "UTILITY TRENCH REQUIREMENTS" 20 "SANITARY SEWERS AND LATERALS" 21 "CONCRETE ENCASEMENT DETAIL"

DRIVEWAYS, CURBS, AND PAVEMENT 32 "TYPICAL SECTION - LOCAL STREET"

#### VI. STORM WATER POLLUTION PREVENTION:

#### FOR PROJECTS LESS THAN ONE (1) ACRE OF TOTAL LAND-DISTURBANCE

AN FPA NPDES CONSTRUCTION STORM WATER PERMIT AND SWP3 IS NOT REQUIRED. HOWEVER, THE CONTRACTOR SHALL STILL ENSURE THAT APPROPRIATE PRACTICES ARE IN PLACE TO PROVIDE CONSTRUCTION RUNOFF AND EROSION AND SEDIMENT CONTROLS WITHIN THE PROJECT LIMITS. SUCH PRACTICES MAY INCLUDE THE USE OF SILT FENCE. STORM DRAIN INLET PROTECTION, JUTE MATTING, TEMPORARY SEEDING, MULCHING, CHECK DAMS, CONSTRUCTION ENTRANCES, CONCRETE WASHOUT AREAS, ETC. ALL PRACTICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES' RAINWATER AND LAND DEVELOPMENT MANUAL, AS APPLICABLE.

EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL PRACTICES AND WILL BE HELD RESPONSIBLE FOR ADDRESSING ANY ON-OR OFF-SITE EROSION/SEDIMENT ISSUES RELATED TO THE PROJECT. THE OWNER/CONTRACTOR SHALL ABIDE BY ALL ORDERS ISSUED BY THE CITY PURSUANT TO INSPECTION OF THE PROJECT SITE.

#### VII. POST CONSTRUCTION INCIDENTALS

#### (A) PROPOSED MONUMENTATION:

THE CONTRACTOR'S SURVEYOR SHALL NOTIFY THE CITY ENGINEER IN WRITING UPON THE COMPLETION OF MONUMENTS BEING SET AS PER PLAN OR RECORD PLAT

#### (B) RELEASE OF RETAINER/BONDS:

PRIOR TO THE RELEASE OF RETAINER/CONSTRUCTION BOND BY THE CITY OF CANTON. THE CONTRACTOR SHALL HAVE COMPLETED THE ENGINEER'S PROJECT PUNCHLIST AND SUBMIT FINAL WAIVER OF LIEN, IN ACCORDANCE WITH CITY SS 01-00.

#### GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWERS AND SANITARY LATERALS PRIOR TO WORK. ANY 1. ADJUSTMENT OF GRADES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- 2. ALL DISTURBED EARTH SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO PRECLUDE EROSION. JUTE MATTING SHALL BE PLACED IN AREAS WHERE GRASS COVER CANNOT BE ESTABLISHED DUE TO STEEP SLOPES.
- 3. ROOF DRAINS, FLOOR DRAINS, AND ALL CLEAN WATER CONNECTIONS SHALL BE PROHIBITED FROM CONNECTING TO THE SANITARY SYSTEMS.
- 4. NO GROUND OR SURFACE WATER ENCOUNTERED DURING SEWER LINE EXCAVATION WILL BE ALLOWED TO ENTER THE SANITARY SEWER COLLECTION SYSTEM.
- 5. A MINIMUM 10-FOOT HORIZONTAL SEPARATION (MEASURED OUT-TO-OUT CLEAR) BETWEEN THE SANITARY SEWER AND EXISTING WATER LINES SHALL BE MAINTAINED.
- 6. A MINIMUM 18" VERTICAL CLEARANCE (MEASURED OUT-TO-OUT CLEAR) BETWEEN THE SANITARY SEWER AND EXISTING WATER LINES SHALL BE MAINTAINED.
- ACCESS TO ALL DRIVEWAYS AND PARKING AREAS WITHIN THE 7. PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. ALL OPEN TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE.

#### EXCAVATED MATERIAL

ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE PILED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS, OR OTHER CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS BEING COMPLETED. SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE, AND NATURAL WATERCOURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF THE WORK, ALL MATERIAL PILES SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER. ALL EXCAVATED WASTE SOIL MAY BE DISPOSED ON FRESH MARK PARCEL # 1400045, AS DIRECTED BY THE OWNER.

#### GENERAL NOTE:

#### SOIL BORING B-1 NOTE

MATERIAL.

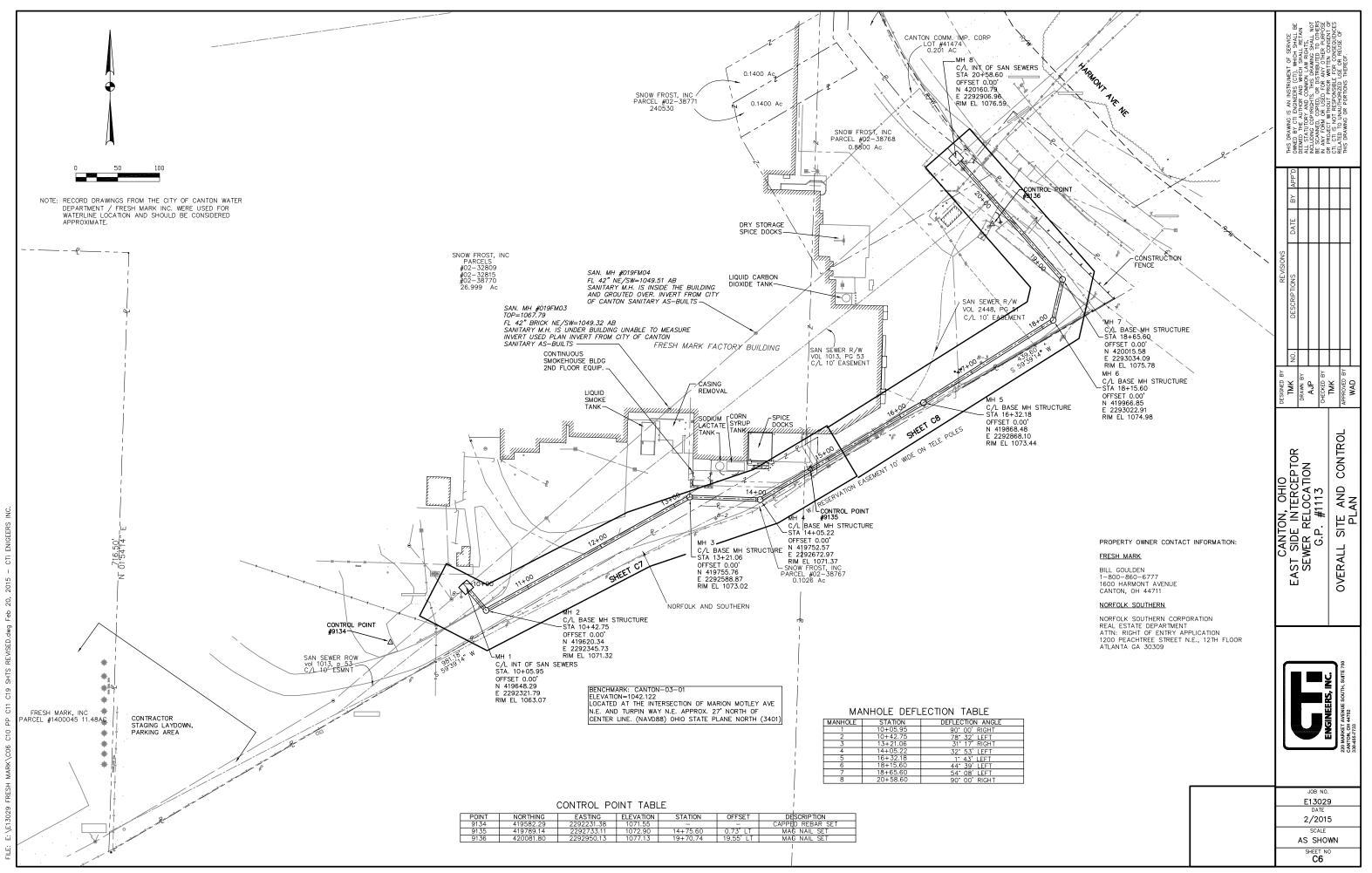
FRESH MARK HAS INVESTIGATED AND REMOVED ANY HAZARDOUS MATERIAL FROM THE SITE PRIOR TO CONSTRUCTION OF THIS PROJECT.

SOIL BORING #1 NOTED A PETROLEUM ODOR. THE SOILS FROM WHICH THIS ODOR WAS NOTED HAVE BEEN REMOVED AND PROPERLY DISPOSED OF BY FRESH MARK, AND TO THE BEST OF EVERYONE'S KNOWLEDGE THE REST OF THE PROJECT AREA IS FREE OF ANY POTENTIAL CONTAMINANTS. HOWEVER, IN THE EVENT THAT ADDITIONAL CONTAMINANTS ARE FOUND DURING THE PERFORMANCE OF THIS PROJECT, THE CITY OF CANTON'S CONTRACTOR WILL VACATE THE CONTAMINATED AREA AND FRESH MARK'S CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING AND DEPOSING OF THE

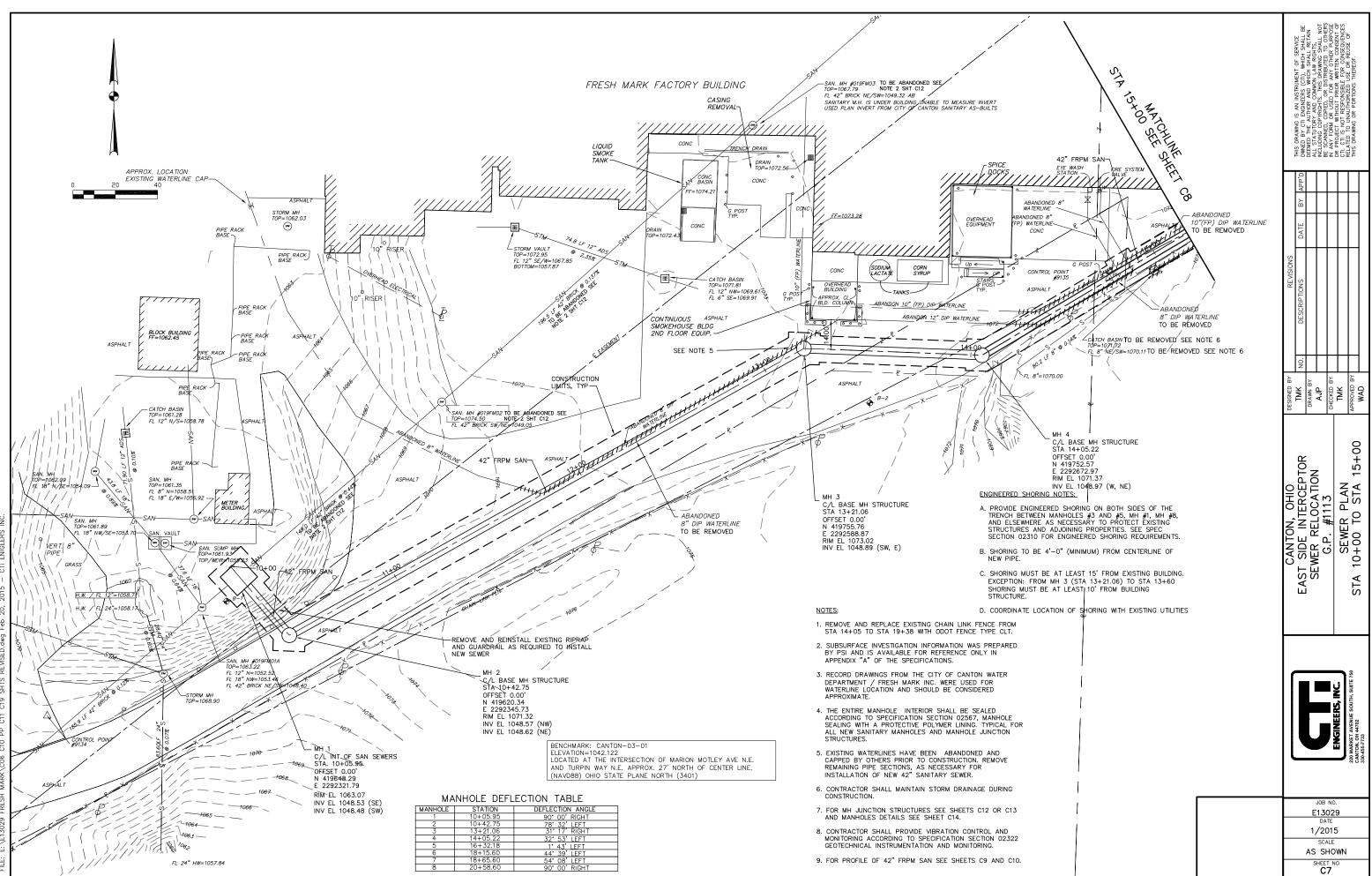
HIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CIT EXURINEERS (CIT), WHICH SHALL BE DEFEND THE AUTHOR AND WHICH SHALL RETAIN ALL STATUTORY AND COMMIN LAW RICHTS. IN LISTATUTORY AND COMMIN LAW RICHTS. IN CONTED OFFICIES THIS DRAWICS SHALL NOT BE SCANNED COPPED OF DISTRIBUTION OTHER PURPOSE IN ANY FORM OF USED FOR ANY OTHER PURPOSE OR PROJECT WITHOUT PRIOR WRITTEN HEREOF CIT, CIT IS NOT RESPONSIBLE FOR CONSENTOR FILLATED TO UNAUTHORIZED USE OF RELIVE OF FILLS TO UNAUTHORIZED USE OF RELIVE OF THIS DRAWING OR PORTIONS THEREOF.							
	DATE BY APP'D						
	ATE B						
REVISIONS	DESCRIPTIONS						
	NO.						
DESIGNED BY	AMT X	DRAWN BY	- AUP	CHECKED BY	YML	APPROVED BY	WAD
CANTON, OHIO EAST SIDE INTERCEPTOR SEWER RELOCATION G.P. #1113 GENERAL NOTES							
						220 MARKET AVENUE SOUTH, SUITE 750 CANTON, OH 44702	330.455.7733
		E	JOB 130 DA	029 TE	9		
2/2015 ^{SCALE} AS SHOWN							
SHEET NO C4							

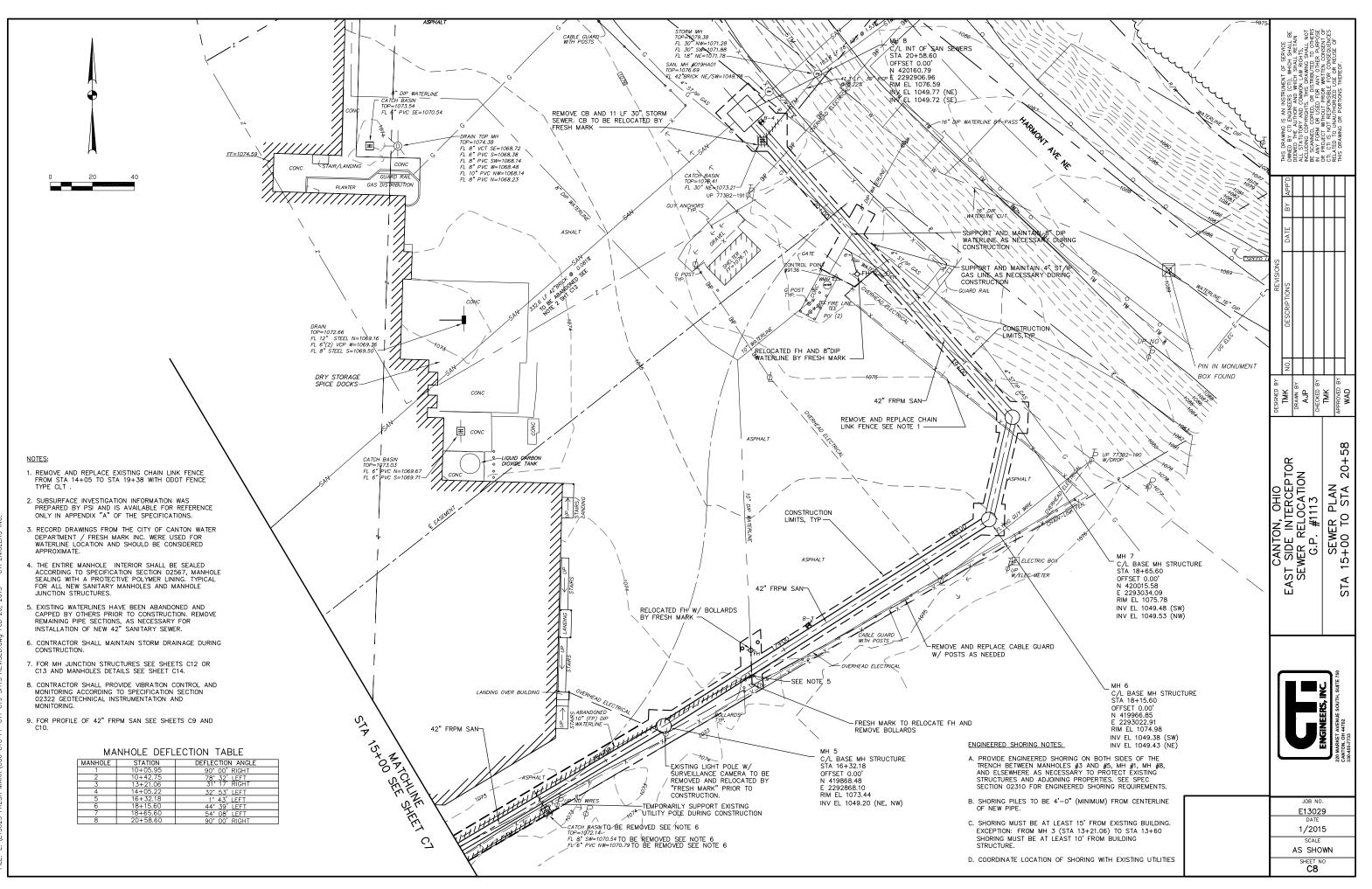
		GRAND	ITEM SPEC		BER		SHE	ITEM SPEC	REF.
DESCRIPTIO	UNIT	TOTAL	NO.	N/A	C8	C7	C6	NO.	NO.
PRECONSTRUCTION PHOTOGRAPHY	LS	1	01380	1				01380	1
DEMOLITION	LS	1	02050	1				02050	2
SLOPE PROTECTION AND EROSION CONTROL	LS	1	02270	1				02270	3
ENGINEERED SHORING	LS	1	02310	1				02310	4
GEOTECHNICAL INSTRUMENTATION AND MONITOF	LS	1	02322	1				02322	5
SEEDING	LS	1	02485	1				02485	6
SEWER FLOW CONTROL	LS	1	02534	1				02534	7
SANITARY MANHOLES NO. 3 & NO. 4, 72 INCH DIAI	EA	2	02560			2		02560	8
SANITARY MANHOLES NO. 2, NO. 5, NO. 6 & NO. 7	EA	4	02560		3	1		02560	9
MANHOLE JUNCTION STRUCTURE MANHOLE NO. 1 CAST-IN-PLACE CONCRETE OR PRECAST CONCR	LS	1	02570 OR 03300			1		02570 OR 03300	10
MANHOLE JUNCTION STRUCTURE MANHOLE NO. 8 CAST-IN-PLACE CONCRETE OR PRECAST CONCR	LS	1	02570 OR 03300		1			02570 OR 03300	11
MANHOLE AND JUNCTION STRUCTURE EXTERIOR	EA	8	02560		4	4		02560	12
MANHOLE AND JUNCTION STRUCTURE SEALING V	EA	8	02567		4	4		02567	13
EXISTING 42 INCH SEWER AND MANHOLES FILL V	CY	340	03300					03300	14
FIBERGLASS REINFORCED POLYMER MORTAR PI	LF	1058	15061		558	500		15061	15
SEWER TELEVISION INSPECTION AND DOCUMEN	LF	1 <b>0</b> 58	CAN 05-01		558	500		CAN 05-01	16
ENCE REMOVED	LF	533	ODOT 202		438	95		ODOT 202	17
PAVEMENT REMOVAL INCLUDING SAW CUTTING	SY	2800	ODOT 202		746	2054		ODOT 202	18
EXISTING CATCH BASIN REMOVAL	EA	3	ODOT 202		2	1		ODOT 202	19
EXISTING WATERLINE REMOVAL 8 INCH TO 12 INC	LF	510	ODOT202		180	330		ODOT202	20
EXISTING STORM SEWER REMOVAL 8 INCH DIA	LF	90	ODOT 202		55	35		ODOT 202	21
EXISTING STORM SEWER REMOVAL 30 INCH DIA	LF	11	ODOT 202		11			ODOT 202	22
ASPHALT CONCRETE BASE COURSE, 6 INCHES T	CY	363	ODOT 301		98	265		ODOT 301	23
LIMESTONE, 8 INCHES FOR PAVEMENT REPLACE	CY	487	ODOT 304		130	357		ODOT 304	24
ASPHALT CONCRETE SURFACE COURSE TYPE 1,	CY	124	ODOT 448		33	91		ODOT 448	25
CONSTRUCTION FENCE	LF	962	ODOT 607				962	ODOT 607	26
FENCE TYPE CLT	LF	533	ODOT 607		438	95		ODOT 607	27
CONSTRUCTION STAKING	LS	1	ODOT 623	1				ODOT 623	28
MOBILIZATION/DEMOBILIZATION	LS	1	ODOT 624	1				ODOT 624	29
CONTINGENCY FOR EXTRA EXCAVATION AND FO _IMESTONE)	CY	50	CAN STD DWG 19	1				CAN STD DWG 19	30

							_
N		TO DAMANC IS AN INSTRUMENT OF SEAMOR	DEFINITION OF AN AND AND AND AND AND AND AND AND AND	ALL JIAIOUNT AND COMMON LAW NIGHTS, INCLUDING COPPRICHTS, THIS DRAWNG SHALL NOT BE SCANNED, COPIED, OR DISTRIBUTED TO OTHERS	IN ANY FORM OR USED FOR ANY OTHER PURPOSE OR PROJECT WITHOUT PRIOR WRITTEN CONSENT OF	CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES RELATED TO UNAUTHORIZED USE OR REUSE OF	THIS DRAWING OR PORTIONS THEREOF.
RING			APP'D	Π	Т	Т	
ning			BY	$\vdash$	+	+	-
				$\vdash$	+	+	-
METER			DATE				
84 INCH DIAMETER		SNS					
1 <u>RETE</u>		REVISIONS	4S				
8		Ľ.	DESCRIPTIONS				
RETE			DESCF				
WATERPROOFING, COAL TAR							
WITH PROTECTIVE POLYMER LI	NING		ov		-	+	-
WITH CONTROLLED DENSITY FILL	_	Æ			<u>ل</u>	ž	ža –
PE FOR SANITARY SEWER		DESIGNED BY	DRAWN BY	AJP	CHECKED BY		WAD BY
ITATION		DE	0		9 9	Ċ	AA
CH DIA THICKNESS MENT 2 INCHES THICKNESS		CANTON, OHIO	EAST SIDE INTERCEPTOR	DEWER RELOCATION			GENERAL SUMMARY
DUNDATION MATERIAL, OPTION B	(#57			JOB 51300 DA	029 TE		ZUMMANE AVENUE SOUTH, SUILE /30 CANTON, OH 44702 330.455-1733
				2/2 SCA	LE		-
				S SH	NO	/N	
				C	5		



2/20/2015 2:54:27 PM



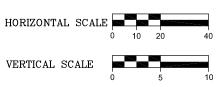


AΜ

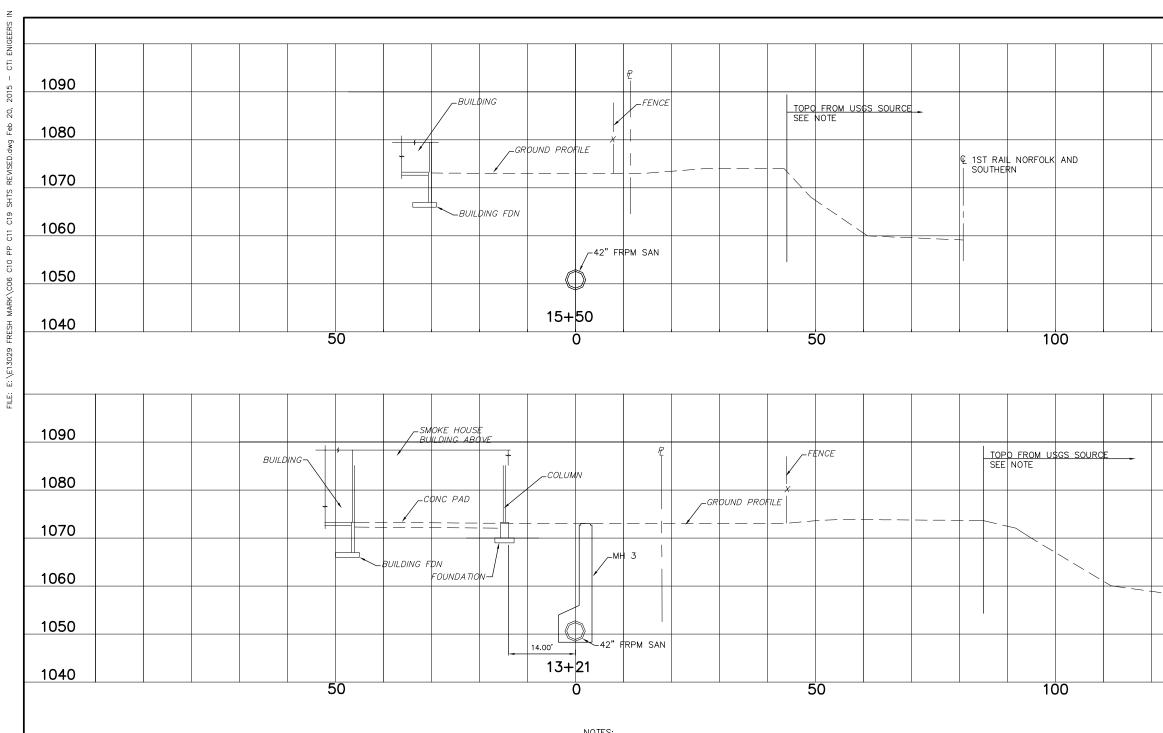
10.09.24

2/20/2015

																THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CIT EVONEERS (CIT), WHICH SHALL BE DEEKED THE ALTIFICAR AND WHICH SHALL RETAIN ALL STATUTORY AND COMMON LAW RIGHTS. INCLUDIG COPRIENTS INFO RAMIC NOT BE SCANNED CAPIENT OR DISTINGTINE TO THERE	0 L 2 0 11
1085															1085	BY APP'D	
1080		071.32							<u>21.06</u> 1073.02 048.89		MH 4 STA 14+05.22 RIM EL 1071.37 INV EL 1048.97	NOTES: 1. ABANDONED AN FRESH MARK P CONSTRUCTION 2. FOR PLAN OF SEE SHEETS C7			1080	US DATE	
1075	FOR MH NO. 1 DETAILS, SEE SHT C12 AND C13	MH 2 STA 10+42 RIM EL 107					PROFILE A SAN ALIGN	ONG PROPOSED	MH 3 51A 134 21.06 RIM EL 1073.02 INV EL 1048.89	€ 10" (FP) DIP WATERLINE		SEE SHEETS C7		Ø 8" DIP WATERLINE SEE NOTE 1	1075	REVISIO SCRIPTIONS	
1070															1070	DES	
1065	MH 1 STA 10+05.9 KIM EL 1063.4														1065	MK NO.	HECKED BY TMK PROVED BY WAD
1060															1060		10 dA
1055	37 LF 42" FRPM SAN ©-0,10%														1055	PTOR	FILE 15+00
1050															1055 1050 1045	N, OHIC INTERCE ELOCATI	#1115 TO STA
1045	EL 1048.48 EL 1048.53	0		27	'8 LF 42" FRPM SAN ℗ー0.10%					84 LF 42" FRPM SAN @-0.10%	2	227 LF 42" FRPM @-0.10%	SAN		1045	CANTO CANTO T SIDE EWER R	G.F. SANITAF 10+00
		INV EL	11+00		12+0	00		13+00			14+00			15+00		EAS	STA
						RIZONTAL SCALE RTICAL SCALE		<b>4</b> 0 <b>1</b> 0								E130 DA 1/2 SC/ AS SI	NO. STATE STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES ST

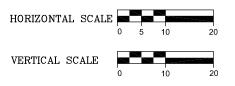


1085				244			1075.78	1085	HIS DRAWIG IS AN INSTRUMENT OF SERVICE OWED BY CTI ENGINEERS (CM), WHICH SERVICE OWED BY CTI ENGINEERS (CM), WHICH SERVICE STATUTGRY AND CAMPACI JUAN REHTT STATA ALE STATUTGRY AND CAMPACI JUAN REHTT STATA ALE STATUTGRY AND CAMPACI JUAN REHTT STATA ALE STATUTGRY AND CAMPACI JUAN REHTT STATA ALE STATATED COPPEILION FOR ANY OTHER TO BE COAMED, COPPEILION FOR ANY OTHER TO RE REALATED TO UNALITY PRIOR CONSCUENCES FILST DE UNALITY PRIOR OF PORTIONS FILST DE UNALITY PRIOR FOR CONSCUENCES FILST DE ANNUG OR PORTIONS THEREOF.
1080			A 16+32.18	4 EL 10/32		6 EL 1074.98	MH 7 STA 18+65,60 RIM EL 1075.78	1080	IN STRUMENT INSTRUMENT AND ADD ADD ADD ADD ADD ADD ADD ADD ADD AD
1075		PROFILE ALONG PRO SAN ALIGMENT	POSED & C	" (FP) DIP WATERLINE € 10" (FP) DI	PROFILE ALONG PR SAN ALIGNMENT		P WATERLINE	1075	Awing IS AN BY CTI ENGIN BY CTI ENGIN THE AUTORY AND ATUTORY AND A
1070								1070	Definition of the provided of
		6 PVC STM DRAIN							BY APP'
1065								1065	DATE
1060								1060	S NOISIN S
1055			/					1055	R
1050							1	1050	
1045		227 LF 42" FRPM SAN @-0.10%			183 LF 42" FRPM SAN @-0.10%	∞ 100 FRI ∞ 100 FRI ∞ 100 FRI 0 0 F 0 FRI 0 0 F 0 F 0 0 F 0	2M SAN 8 6 6 6 7 7 8 8 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	1045	
							□     □       ≥     ≥       ≥     ≥       193 LF 42" FRPM SAN_ @-0.10%		DESIGNED 1 DESIGNED 1 TMK AUP TMK APPROVED 0 MAAD
1085	15+00		16+00	17	7+00	18+00	19+00		भूत 2004
1080				+58.60 1076.59	1080				CANTON, OHIO EAST SIDE INTERCEPTOR SEWER RELOCATION G.P. #1113 SANITARY PROFILE SANITARY PROFILE
			ST/IP GAS E NOTE 1	MH 8 8 IN 2015 					E INTER E INTER RELICE RELICE ARY P O TO
1075		<i>€ 8" DIP WATE</i> SEE NŎTE	30" RCP STM	FOR MH NO. 8 DETAILS, SEE SHT C12 AND C13	1075				CCAN ST SIDE G.F SANIT 15+0
1070					1070				EAS STA
1065		NOTE: 1. SUPPORT AND MAIN NECES\$ARY DURING			1065				
1060		2. FOR PLAN OF 42" SHEETS C7 AND C8			1060				
1055					1055				
1050					1050				
	193 L	LF 42" FRPM SAN @-0.10%		1049.72					
1045				2 P 1 B 2 EXISTING 42" BRICK SAN SEWER	1045			0 20 40	JOB NO. E13029 DATE 1/2015
19-	+00	20-	+00	21+00			VERTICAL SCALE	5 10	1/2015 SCALE AS SHOWN SHEET NO C10



NOTES:

- 1. IF MORE DETAILED TOPOGRAPHIC INFORMATION IS NECESSARY TO DEVELOP ENGINEERED SHORING DESIGN THE CONTRACTOR IS RESPONSIBLE TO OBTAIN INFORMATION FROM NORFOLK AND SOUTHERN RAILROAD
- 2. THE EXISTING FRESH MARK LUNCHMEAT ADDITION/ALTERATIONS BUILDING FOUNDATION DRAWINGS (JOB # 5349.20)DATED JUNE 25, 1997 WERE PROVIDED BY FRESH MARK TO CTI FOR THE SEWER DESIGN.



ENIGE CI

2015

20, Feb

H SHTS

C19

E E

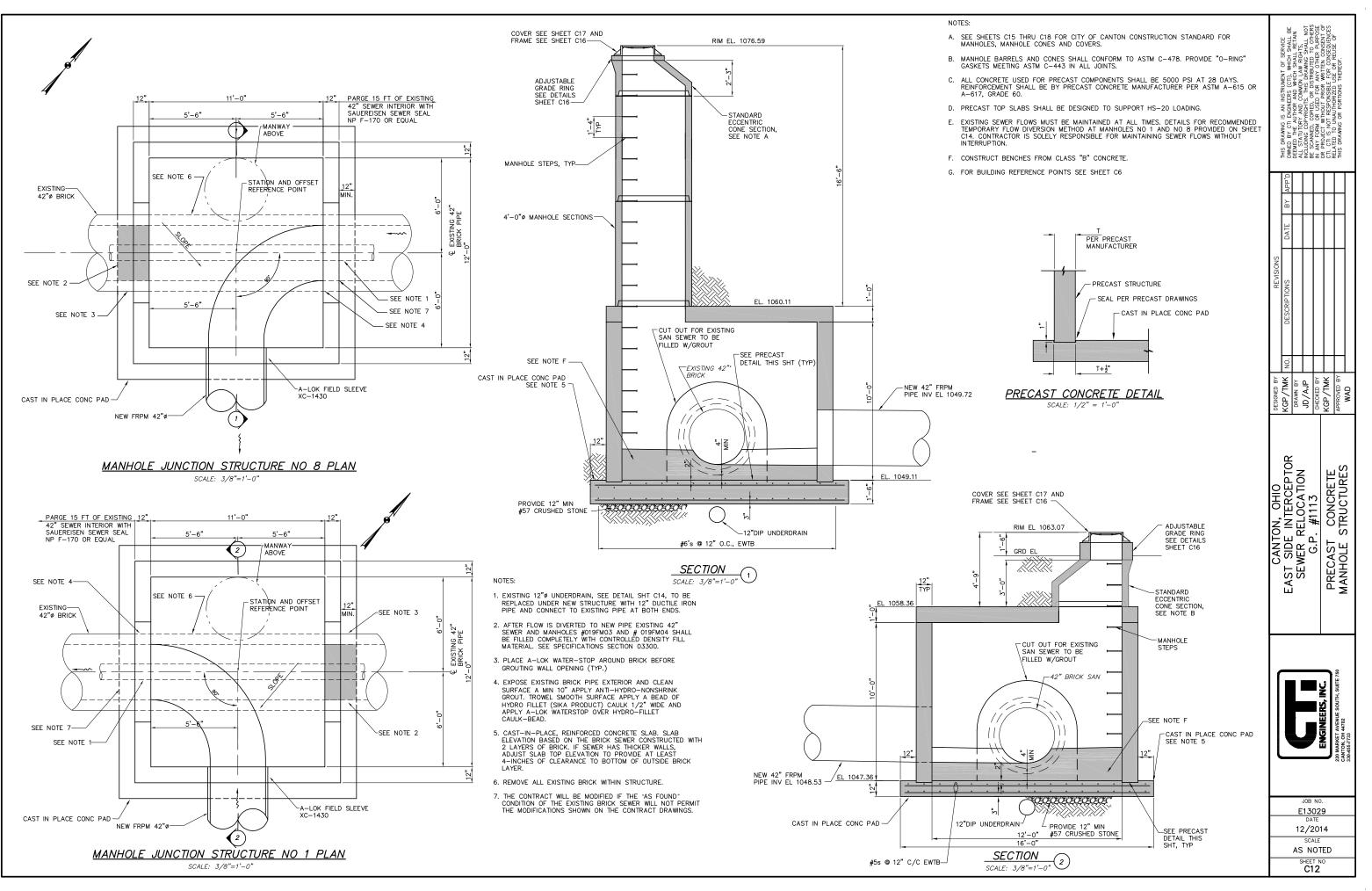
C10

80

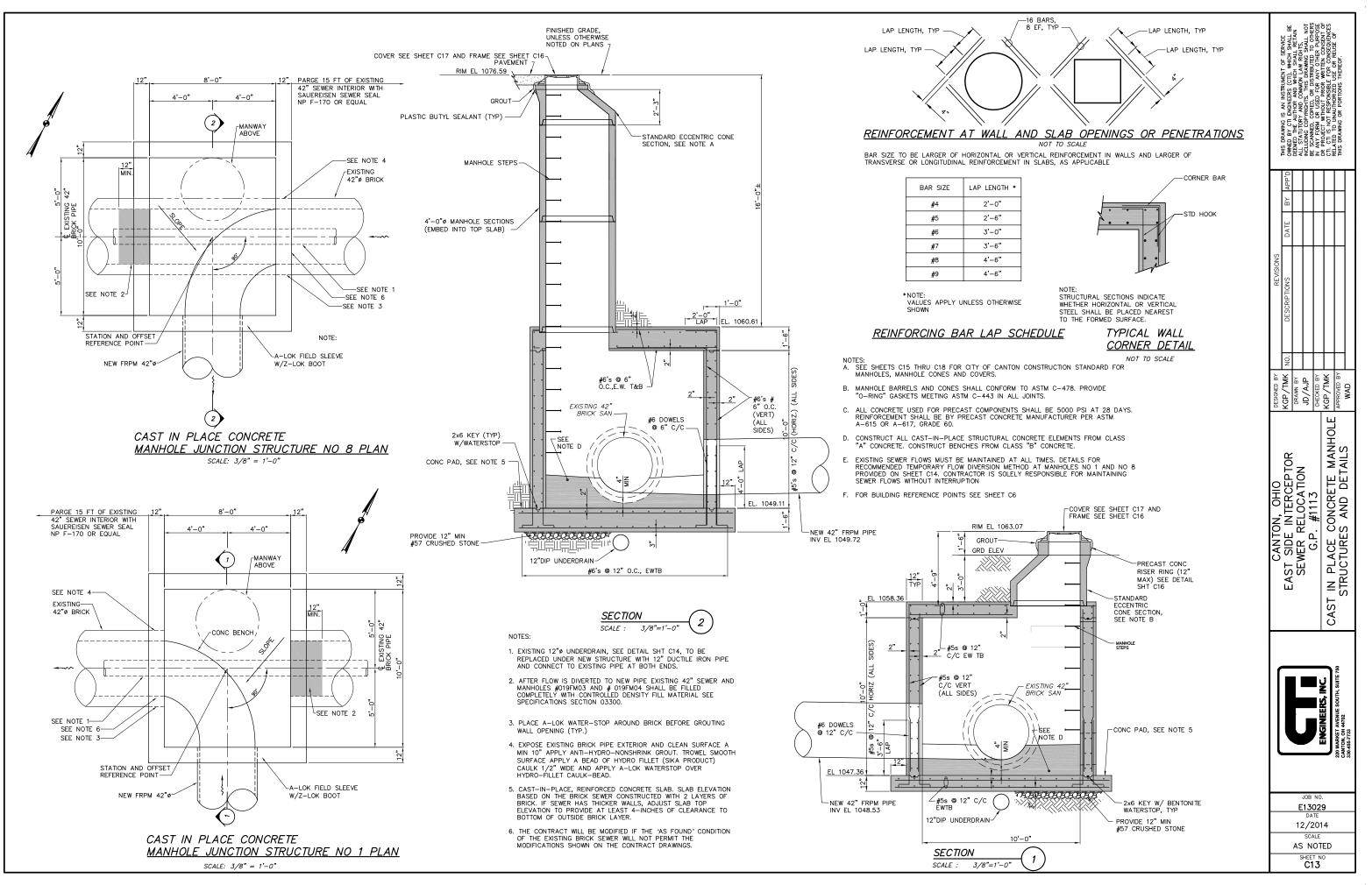
Ā

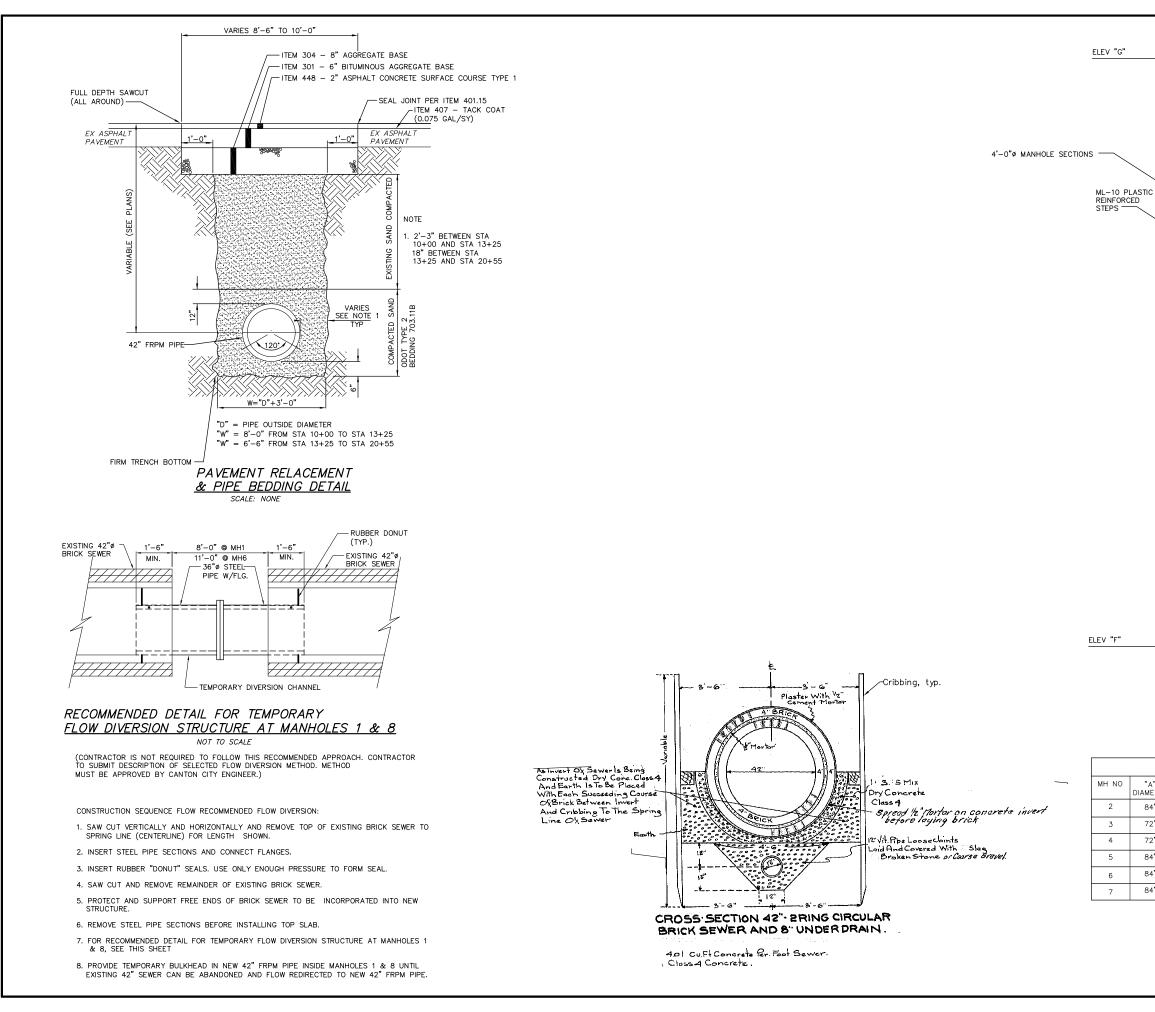
FRESH

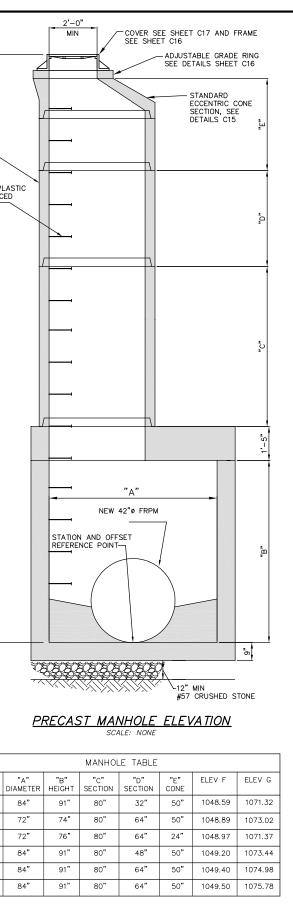
	1090 1080 1070	HIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CTI REVAILERES (CTI), MICH SHALL BE DERED THE AUTHOR AND WICH SHALL BE DELEVED THE AUTHOR AND WICH SHALL BE ALL STATUDRY AND COMMON LAW RIGHTS. INCLUDING COPYRICHTS THIS DRAWING SHALL NOT RESCARDE OPEID, FOR DIS DRAWING SHALL NOT BE SCAWARD. OPEID FOR ANY OTHER UPHERS IN ANY FORM OR USED FOR ANY OTHER UPHERS IN ANY FORM OR USED FOR ANY OTHER UPHERS IN ANY FORM OR USED FOR ANY OTHER UPHERS FILL AND TO UNALTHORALED USE OR RELATED FOR THIS DRAWING OR PORTIONS THEREOF.
	1060	BY APP'D
	1050	REVISIONS DATE NS
150	1040	DESCRIPTIONS
	1090	DESIGNED BY TMK NO. AJP AJP CHECKED BY TMK APPROVED BY
	1080	_
© 1ST RAIL NORFOLK AND SOUTHERN	1070	10 CEPTOR IONS
	1060	TON, OHIO E INTERCEPT RELOCATION P. #1113 ER SECTIONS
150	1050 1040	CANTON, OHIO CANTON, OHIO EAST SIDE INTERCEPTOR SEWER RELOCATION G.P. #1113 SEWER SECTIONS
		JOB NO. E13029 DATE 1/2015 SCALE AS SHOWN SHEET NO C11



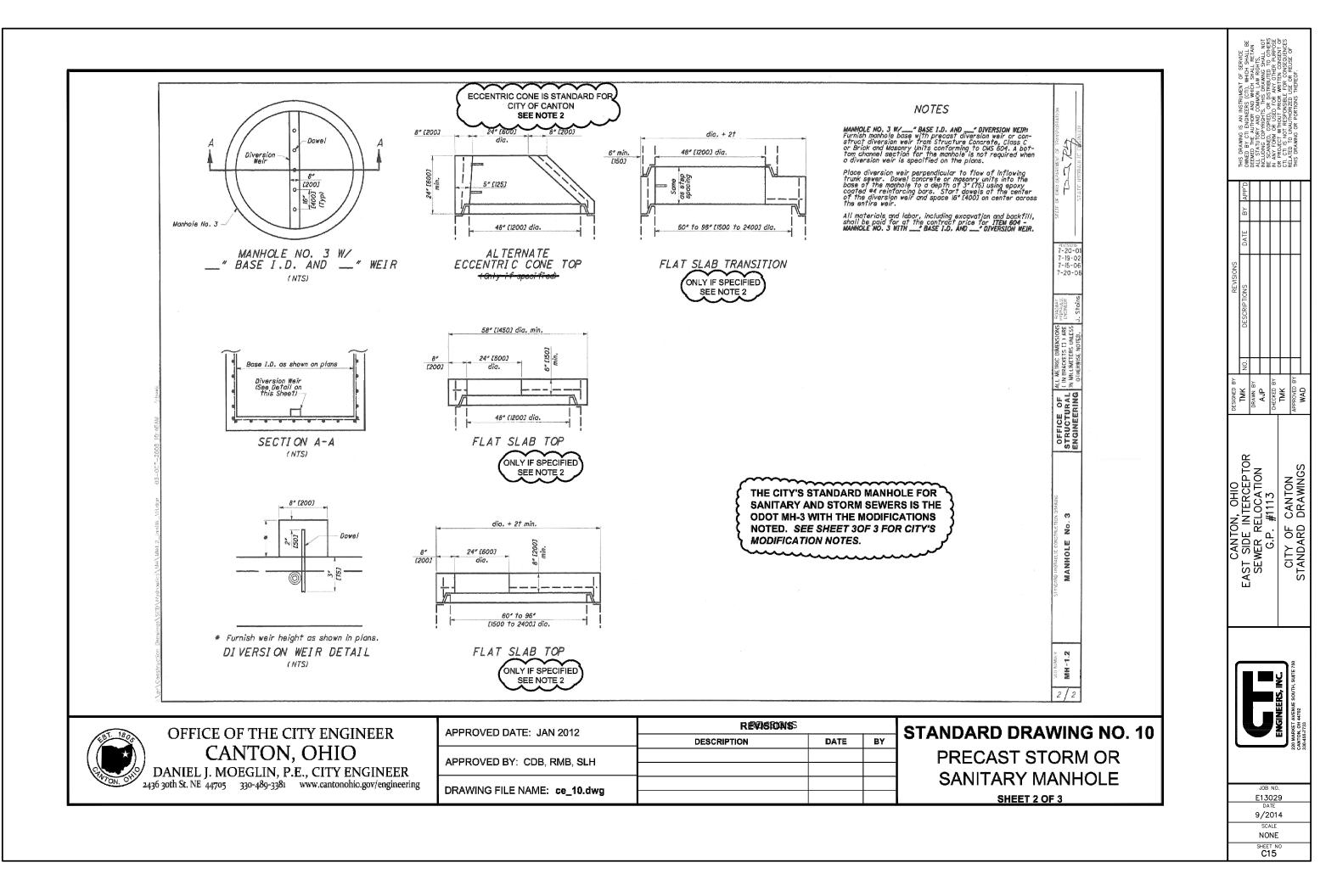
2/20/2015 10:23:59 AM







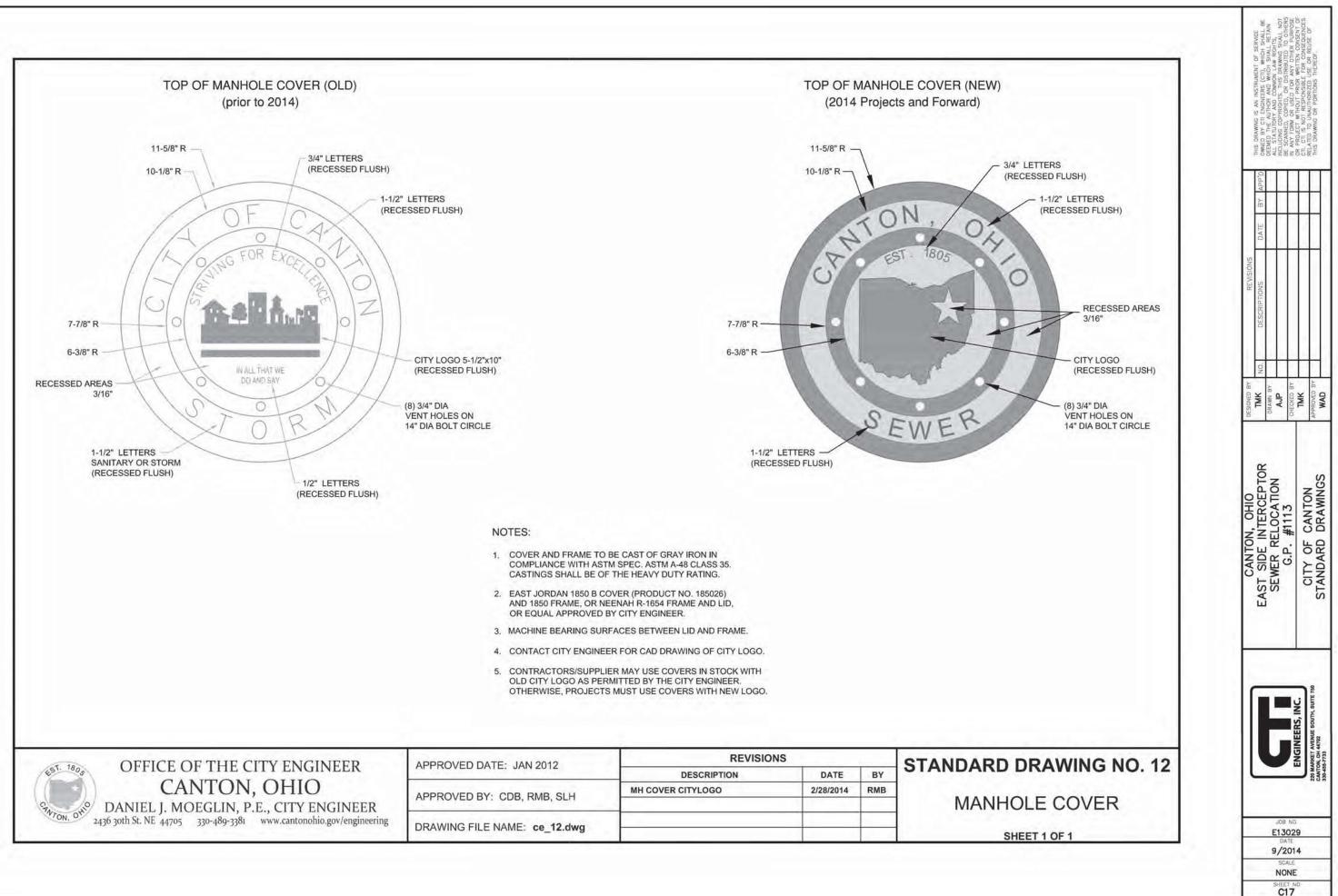




SINUL.   SINUL.   Concerter And Source Backets Not Personal Source Additional So		CANTON CONSTRUCTION STANDARDS NOTES FO	R MODIFIED	ODOT MANHOLE 3 (SCD MH-1.2)			OPTIO	NAL MANHOLE B
FRAMES AND COVER SHALL CONFORM WITH CITY OF CANTON STD. DWG. NO. 12. DOUBLE RING, 1/2" to 1" DIA. BUTYL RUBBER SEAL, CON-SEAL OR DOUBLE RING, 1/2" to T	NOTE 2.	GROUT. TOP AND TRANSITION SECTIONS MUST BE ECCENTRIC CONE ONLY. USE FLAT SLAB FOR SHALLOW MANHOLE APPLICATIONS OR SPECIAL CIRCUMSTANCES AS DIRECTED BY THE CITY. <u>6" EXTENDED BASE</u> IS STANDARD FOR ALL SANITARY AND STORM MANHOLES. SET MANHOLE BASE ON 6" OF AASHTO M 43 NO. 56, 67, OR 62 CRUSHED STONE SET ON UNDISTURBED EARTH. <u>PIPE CONNECTIONS</u> INTO THE MANHOLES MUST NOT EXTEND INTO THE MANHOLE MORE THAN 2" AT THE SIDES OF THE PIPE AT THE SPRING-LINE OF SAID PIPE. <u>SANITARY CONNECTIONS</u> SANITARY SEWER PIPE INLETS, WITH FLOWLINES MORE THAN 2" HIGHER THAN THE CHANNEL BENCH MUST BE OUTSIDE DROP CONNECTIONS. DROP CONNECTIONS MUST BE FABRICATED AND CAST INTEGRALLY WITH THE MANHOLE SECTIONS OR INSTALLED PER CITY STANDARD DWG. 11, OUTSIDE DROP CONNECTION FOR SANITARY MANHOLES. NO INSIDE DROPS DERMITTED FOR PRIVATE SEWER CONNECTIONS. INSIDE DROP FOR CITY-OWNED SEWERS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. SANITARY PIPE INLETS MUST BE FLUMED OVER THE BENCH, DIRECTING FLOW INTO THE CHANNEL, USING CONCRETE AND/OR CLAY SEWER BRICK AND MORTAR. <u>CAST OPENINGS</u> MUST BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 2 INCHES WITH A BUTYL RUBBER A-LOK, X-CEL GASKET, OR APPROVED EQUAL. <u>CORED OPENINGS</u> MUST BE MACHINE CORED, THE OPENING SHALL BE PER PIPE-TO-MANHOLE CONNECTOR SPECS. USE "KOR-N-SEAL" FLEXIBLE PIPE-TO-MANHOLE CONNECTOR WITH STAILESS WEDGE ASSEMBLY OR APPROVED EQUAL CONFORMING TO ASTM C-930 OR ASTM C-923. <u>STORM CONNECTION</u> OPENINGS FOR STORM PIPE INLETS MAY BE CAST OR MACHINE CORED. OPENINGS SHALL NOT EXCEED THE O.D. OF PIPE + 2". MAKE WATER-TIGHT JOINTS WITH NON-SHRINK CEMENT OR CLASS 'C' CONCRETE APPLIED FROM INSIDE AND OUTSIDE OF MANHOLE. <u>STEPS</u> SHALL BE 1/2" STEEL REINFORCED POLYPROPYLENE STEPS SHALL BE 1/2" STEEL REINFORCED POLYPROPYLENE	NOTE 7. NOTE 8. SEAL OUTSI WITH 1/2" NO	CONCRETE, RUBBER COMPOSITE, OR CL CONCRETE BRICK IS NOT PERMITTED. HEIGHT OF GRADE RINGS COLLECTIVELY PRECAST CONCRETE GRADE RINGS MUS CLASS 'C' CONCRETE AND CONNECTED CONCENTRIC RINGS OF 1/2" TO 1" BEADS SEALANT CON-SEAL OR APPROVED EQU JOINTS WITH 1/2" NON SHRINK CEMENT RUBBER COMPOSITE GRADE RINGS MUSS EJIW OR APPROVED EQUAL, AND CONNE PARALLEL BEADS OF POLY-SEALANT ADD MANUFACTURER RECOMMENDATION. R GRADE RINGS HEIGHT MUST NOT EXCEEP PLACED DIRECTLY UNDER MANHOLE FR/ BRICK AND MORTAR RINGS MUST BE BEI ASTM C32-90, OR APPROVED EQUAL WIT ENTRAINED, MORTAR. SEAL OUTSIDE JO SHRINK CEMENT PLASTER. USE TWO PARALLEL 3/4" BEADS OF BUTY CON-SEAL OR APPROVED EQUAL, BETWO DIFFERENT MATERIAL AND BETWEEN GR MANHOLE FRAME. FOR BACKFILL MATERIAL AND COMPACT EXCAVATION, IF APPLICABLE, REFER TO SANITARY MANHOLES TO BE TESTED AC ENGINEER'S SPECIFICATION 04-01 (NEGA TEST). DOUBLE RING, 1/2" to 1" DIA. BUTYL RUBBER SEAL, CON-SEAL OR APPROVED EQUAL	AY BRICK AND MORTAR. Y SHALL NOT EXCEED 12". ST BE REINFORCED USING TWO S OF BUTYL RUBBER HAL. SEAL OUTSIDE PLASTER. ST BE "INFRA-RISER" BY ECTED USING TWO HESIVE PER RUBBER COMPOSITE ED 3" AND MUST BE AME. LDEN BRICK, FINE GRIND, TH HIGH STRENGTH, AIR OINTS WITH 1/2" NON YL RUBBER SEALANT EEN GRADE RINGS OF RADE RINGS AND TON, AND ROCK CITY STD.DWG. NO. 19. CORDING TO CITY ATIVE AIR PRESSURE 3" MAX. RUBBER COMPOSITE, DOUBLE RING POLY-SEALANT ADHESIVE 12" MAX.	IF REQUENTS CONTREXTER THE PF WATEF CONTIN APPLY PER MA TOP OF CASTIN ITEM 604 604 604 604 604 604 604 604 604 604	V.F. UESTED BY TH RACTOR SHALL IOR OF DESIG RICE IS PAID P RPROOFED AS NGENCY BID IT IN THE FIELD ANUFACTURE F THE EXTEND NG. QTY. UNIT EACTOR SHALL IS PAID PER V TED BY THE EIS SING EXISTING LATION AND C ONTINGENCY IN THE FIELD Y CARBOLINE NG MANHOLE JCTIONS. APP ANHOLE COVE KISTING MANHORE IN SIDE WA	MH     WATERPRO       HE CITY ENGINEER, L PROVIDE UNIT PRI SNATED MANHOLES.       DER VERTICAL FOOT S DIRECTED BY THE TEM UNLESS SPECIFICATIONS DED BASE TO THE BO DED BASE TO THE BO D
APPROVED EQUAL	E	FRAMES AND COVER SHALL CONFORM WITH CITY OF CANTON		DOUBLE RING, 1/2" to 1" DIA. BUTYL RUBBER SEAL,				SEWERS THE MOI
	~	OFFICE OF THE OWN ENGINEED	10000	VED DATE: JAN 2012	REVISIO	NS		STAND
OFFICE OF THE CITY ENGINEER APPROVED DATE: JAN 2012	EST. 1805		APPROV	VED DATE: JAN 2012		100 million (100 m	ГЕ ВҮ	STAND
		CANTON, OHIO						PRE
DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering			APPROV	VED BY: CDB_RMB_SLH				

10.3

EMS		THIS DRAWING IS AN INSTRUMENT OF SERVICE	DEFINED BY CIT ENGINEERS (CIT), WHICH SHALL HE DEEMED THE AUTHOR AND WHICH SHALL RETAIN ALL STATUTORY AND COMMON LAW RIGHTS.	INCLUDING COPYRICHTS. THIS DRAWING SHALL NOT BE SCANNED, COPIED, OR DISTRIBUTED TO OTHERS	IN ANY TURN IN USED TO ANY UTILITY NUTERO CONSENT OF OR PROJECT WITHOUT PROR WRITTEN CONSENT OF CTL. CTL IS NOT RESPONSIBLE FOR CONSEQUENCES	MELA RED TO UNAUTHORIZED USE OR REUSE OF THIS DRAWING OR PORTIONS THEREOF.
PTION "A"		0,0		П	Т	П
G, COAL TAR, A.P.P.		and a		$\left  \right $	+	H
PECIFIED IN THE PLAN, THE DR WATERPROOFING THE TEM IS "CITY OPTIONAL" AND ICH MANHOLE		NATE DV				
IEER. THIS OPTION IS A ITHERWISE.		SNC				П
HE OUTSIDE OF THE MANHOLE INSTRUCTIONS FROM THE M OF THE MANHOLE COVER		REVISIONS				
PTION "B"						
LINING, A.P.P.		-	5	$\left  \right $	+	H
MER LINING, A.P.P.	-	-				ž
PECIFIED IN THE PLAN, THE DR CORROSION RESISTANT WIS "CITY OPTIONAL" AND THE ACH MANHOLE LINED AS FOR THIS ITEM INCLUDES ALL AND INCIDENTALS REQUIRED S INCLUDING THE COST FOR E DURATION OF THE D. THIS OPTION IS INCLUDED		TWK	DR		TMK	VGS APPROVED BY WAD
FIED OTHERWISE. T POLYMER LINING (PLASITE D THE INSIDE OF THE NEW OR PECIFICATIONS AND E BENCH TO THE BOTTOM OF		IN ION, OHIC	THE INTERCEPTOR	G.P. #1113	OF CANTO	ARD DRAWINGS
R LINING APPLICATION, FACTURERER'S E CITY ENGINEER.	č	10 101 1	C LASI SEME		H.C	STANDARD
TANDARD MANHOLE RY AND STORM HE ODOT MH-3 WITH ATIONS NOTED.		ſ	1			
D DRAWING NO. 10				J	ENGINEERS, INC	220 MARKET AVENUE SOUTH, SUITE 75 CANTON, OH 44702 330-455-7733
AST STORM OR		L			_	220 MA
ARY MANHOLE						
SHEET 3 OF 3	-					
				130	29	- 9
			9	DAT	14	
	- 0		-	SCAL		
		-		C1	ND	
			-	UI	, 	



#### NOTES: (CONTINUED)

#### 7. PAY LIMITS

- BEDDING AND BACKFILL IS INCLUDED IN WITH THE COST OF PIPE A) UNLESS BID OTHERWISE.
- PAVEMENT RESTORATION: THE WIDTH MEASUREMENT OVER THE B) TRENCH FOR PAVEMENT RESTORATION SHALL NOT EXCEED THE OUTSIDE DIAMETER (O.D.) OF PIPE PLUS A SET MEASUREMENT DEPENDENT ON DEPTH OF PIPE. AREA MEASUREMENTS AT MANHOLE AND CATCH BASIN STRUCTURES SHALL NOT EXCEED THE AREA OF THE BASE OF THE STRUCTURE + 3'-0" OFFSET AREA AROUND THE STRUCTURE'S BASE.

#### EXTRA FOUNDATION MATERIAL: C)

WHEN IN THE OPINION OF THE CITY ENGINEER, SOFT/UNSTABLE MATERIALS ARE ENCOUNTERED WHICH ARE UNSUITABLE FOR BEDDING FOUNDATION, SAID MATERIAL SHALL BE REMOVED BY THE CONTRACTOR TO THE DEPTH DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE MATERIAL. THE PAYABLE WIDTH OF THE EXTRA FOUNDATION MATERIAL SHALL NOT EXCEED THE LESSER OF THE APPLICABLE MINIMUM OR MAXIMUM TYPICAL BEDDING WIDTH, AS NOTED ON SHEET 1 OF STD. DWG. NO. 19. THE CONTRACTOR SHALL BE PAID FOR OVER-EXCAVATION AND BEDDING FOUNDATION MATERIAL UNDER THE CONTINGENCY BID ITEMS FOR EXTRA FOUNDATION MATERIAL

EXTRA FOUNDATION MATERIAL, OPTION A, B, C, & D, MAY BE USED IN ANY COMBINATION AS DIRECTED BY THE CITY ENGINEER:

OPTION A: CRUSHED STONE, AASHTO M 43 NO. 1 AND/OR 2

OPTION B: CRUSHED STONE, AASHTO M 43 NO. 56, 57, OR 67

OPTION C: ODOT 703.11, TYPE 1 (304, 411 OR 617 GRADATION)

OPTION D: TENSAR GEOGRID T1100, OR APPROVED EQUAL

#### EXTRA FOUNDATION MATERIAL, CONTINGENCY BID ITEMS

ITEM	QTY.	UNIT	DESCRIPTION
603	1.10	C.Y.	EXTRA FOUNDATION, OPTION A (#1,#2 STONE)
603	-	C.Y.	EXTRA FOUNDATION, OPTION B (#56,57,67 STONE)
603	1-1-1-1	C.Y.	EXTRA FOUNDATION, OPTION C (304,411,617)
603	1.7.7.1	S.F.	EXTRA FOUNDATION, OPTION D (GEOGRID)

#### NOTES: (CONTINUED)

#### EXCAVATION OF ROCK OR BURIED/ABANDONED CONCRETE STRUCTURE 8 REMOVAL

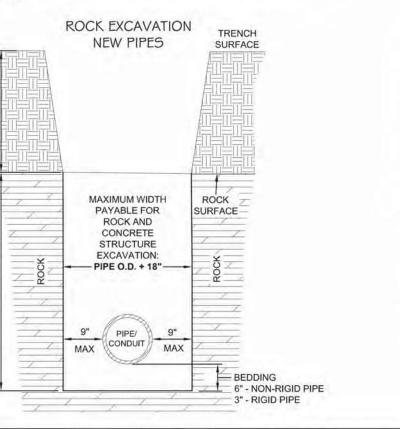
EXCAVATION FOR NEW MANHOLES AND CATCH BASINS, UNLESS OTHERWISE SPECIFIED OR SHOWN ON CONSTRUCTION PLANS, SHALL BE MEASURED BETWEEN VERTICAL PLANES ONE (1) FOOT BEYOND THE OUTSIDE EDGE OF THE FOUNDATION OF THE STRUCTURES ON ALL SIDES, AND PARALLEL THERETO, AND FROM THE SURFACE OF THE ROCK TO THE BOTTOM OF THE ROCK OR THE NEAT LINES OF THE BOTTOM OF THE STRUCTURES PLUS THE DEPTH OF THE BASE MATERIAL, USE THE MEASUREMENT WHICH IS LESSER.

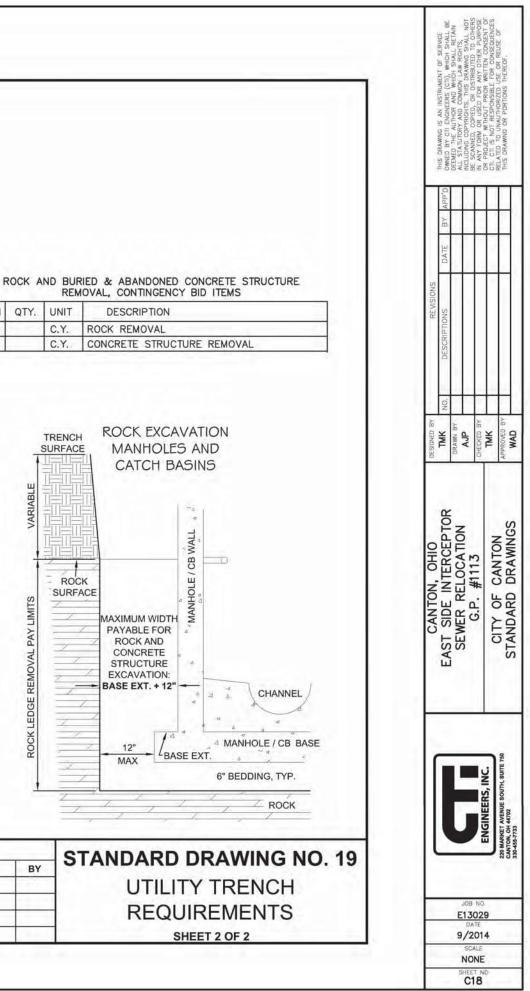
EXCAVATION FOR NEW PIPES, UNLESS OTHERWISE SPECIFIED OR SHOWN ON CONSTRUCTION PLANS, SHALL BE MEASURED BETWEEN TRENCH WALLS (NOT TO EXCEED PIPE O.D. + 18". AND FROM THE SURFACE OF THE ROCK TO THE BOTTOM OF THE ROCK OR THE BOTTOM OF THE PIPE BEDDING, USE THE MEASUREMENT WHICH IS LESSER

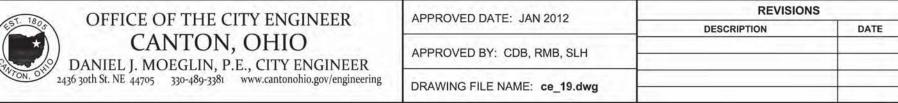
EXCAVATION OF BURIED AND ABANDONED CONCRETE STRUCTURES SHALL BE MEASURED IN THE SAME MANNER AS ROCK REMOVAL.

THE CONTRACTOR SHALL BE PAID FOR ROCK REMOVAL AND CONCRETE STRUCTURE REMOVAL UNDER THE CONTINGENCY BID ITEMS FOR ROCK OR CONCRETE STRUCTURE REMOVAL. IF A CONTINGENCY BID ITEM IS NOT INCLUDED IN THE BID PROPOSAL, THE CONTACTOR MAY SUBMIT A PROPOSAL (PRIOR TO WORK BEING STARTED) TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.

ITEM	QTY.	UNIT	DES
603	1000	C.Y.	ROCK
603		C.Y.	CONCR



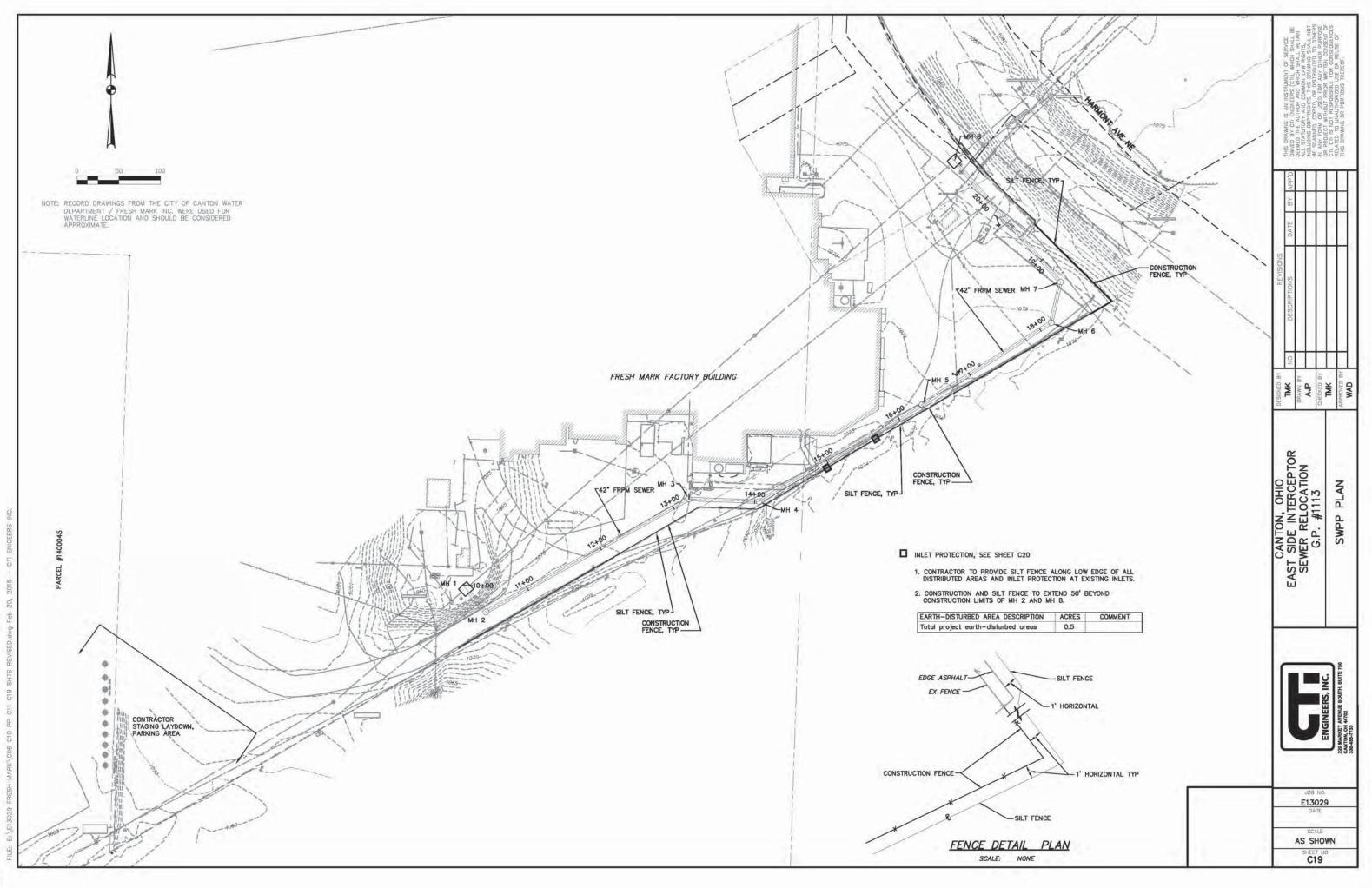


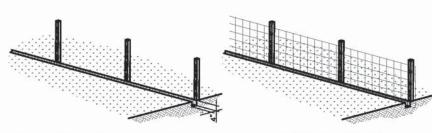


PAY

ROCK LEDGE REMOVAL

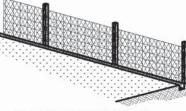
AM



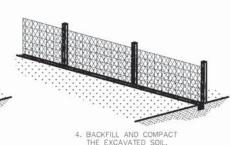


1. SET POSTS AND EXCAVATE A 4" X 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.

STAPLE WIRE FENCING TO THE POSTS.



ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



#### SILT FENCE DETAIL

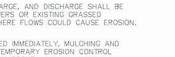
- 1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES & PRACTICES MUST COMPLY WITH THE <u>CONSTRUCTION</u> <u>GENERAL PERMIT PART III.G SWP3 REQUIREMENTS</u> AND BE INSTALLED IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS IN THE 2006 VERSION OF THE ODNR <u>RAINWATER AND LAND DEVELOPMENT</u> HANDBOOK OR EQUAL APPROVED BY THE STARK COUNTY SWCD.
- 2. MEASURES & PRACTICES SHALL BE IMPLEMENTED DURING CONSTRUCTION AS FEASIBLE, TO PRESERVE NATURAL CONDITIONS, INCLUDING: PROTECTION OF EXISTING VEGETATION (INCLUDING INDIVIDUAL TREES) AND RIPARIAN AREAS; MAINTENANCE OF VEGETATION BUFFER STRIPS ALONG ANY DRAINAGES, WATER BODIES AND WETLANDS; AND PHASING CONSTRUCTION AND CLEARING LAND IN STAGES TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ANY ONE TIME.
- 3. INDIVIDUAL TREES, TREE AREAS, AND VEGETATION TO BE SAVED SHALL BE MARKED AND PROTECTED WITH A BARRIER IF NECESSARY. ENSURE THAT THERE IS NO STORAGE OF SOIL OF MATERIAL, OR CONSTRUCTION TRAFFIC WITHIN THE DRIP LINE OF THE TREES. NO TREE REMOVAL SHALL BE PERMITTED OUTSIDE THE CONSTRUCTION AREA WITHOUT SPECIFIC PERMISSION OF THE PROJECT ENGINEER.
- 4. PRIOR TO GRADING AND WITHIN <u>7 DAYS</u> FROM THE START OF GRUBBING, APPROPRIATE STRUCTURAL MEASURES & PRACTICES SHALL BE IMPLEMENTED TO DIRECT RUNOFF AWAY FROM, LIMIT RUNOFF FROM, AND CONTROL RELEASE OF SEDIMENT FROM ANY AREA DISTURBED BY CONSTRUCTION OR ASSOCIATED ACTIVITY ON OR OFF THE PROJECT SITE. MEASURES & PRACTICES SUCH AS PERIMETER SEDIMENT BARRIERS, SEDIMENT BASINS AND DIVERSIONS INTO THEM, PIPE SLOPE DRAINS, ROCK CHECK DAMS, AND PROTECTIVE GRADING MAY BE USED.
- 5. STRUCTURAL MEASURES & PRACTICES TO CONTROL EROSION AND TRAP SEDIMENT SHALL BE IMPLEMENTED ON ANY AREA THAT IS TO REMAIN DISTURBED FOR MORE THAN <u>14 DAYS</u>, MEASURES & PRACTICES SUCH AS SILT FENCES, SETTLING PONDS, STORM DRAIN INLET PROTECTION, AND DIKES OR CHANNELS TO DIRECT RUNOFF FROM DISTURBED AREAS TO A SETTLING POND SHALL BE USED.
- 6. ANY DISTURBED AREA ON OR OFF THE PROJECT SITE INCLUDING ANY SOIL STOCKPILE THAT WILL REMAIN IDLE FOR MORE THAN <u>21 DAYS</u>, SHALL BE STABILIZED BY QUICKLY PROVIDING COVER TO CONTROL EROSION. DISTURBED AREAS MAY BE STABILIZED USING MEASURES & PRACTICES SUCH AS: SEEDING, DORMANT SEEDING, MULCHING, MULCH BLANKET, GEOTEXTILE, SOD, PRESERVATION OF EXISTING COVER, ALTERNATIVE GROUND COVER, AND USE OF CONSTRUCTION ENTRANCES. STABILIZATION OF SLOPES GREATER THAN 6%, FILL SLOPES, AND OTHER AREAS TENDING TO BE UNSTABLE SHALL INCLUDE MEASURES SUCH AS EROSION CONTROL BLANKET OR MATTING.
- 7. ANY DISTURBED AREA NOT AT FINAL GRADE THAT WILL REMAIN IDLE FOR MORE THAN 14 DAYS AND LESS THAN 1 YEAR SHALL BE TEMPORARILY STABILIZED. ANY SUCH DISTURBED AREA THAT IS <u>WITHIN.50 FEET</u> OF A WATER BODY OR DRAINAGE COURSE, SHALL BE STABILIZED WITHIN <u>2.DAYS</u> OF MOST RECENT DISTURBANCE. ANY AREA <u>NOT WITHIN</u> <u>50 FEET</u> OF A WATER BODY OR DRAINAGE COURSE SHALL BE STABILIZED WITHIN <u>7.DAYS</u>.
- 8. DISTURBED AREAS AT FINAL GRADE SHALL BE PERMANENTLY STABILIZED TO ACHIEVE FINAL STABILIZATION USING MEASURES & PRACTICES SUCH AS: PERENNIAL VEGETATION COVER, LANDSCAPING MULCH, MATTING, SOD, RIP RAP, AND LANDSCAPING TECHNIQUES. FINAL STABILIZATION IS ACHIEVED WHEN UNIFORM PERENNIAL COVERAGE OF AT LEAST 70% IS ESTABLISHED ON ALL AREAS NOT PAVED OR LANDSCAPED, OR WHEN EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED AND TEMPORARY CONTROL PRACTICES REMOVED AFTER FINAL STABILIZATION.
- 9. ANY AREA WITHIN 50 FEET OF A WATER BODY OR DRAINAGE COURSE SHALL BE PERMANENTLY STABILIZED WITHIN 2 DAYS OF REACHING FINAL GRADE. ANY AREA THAT IS MORE THAN 50 FEET FROM A WATER BODY OR DRAINAGE COURSE SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED IN FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION IS ACHIEVED.
- 10. ANY DISTURBED AREA OF PART OF ANY DISTURBED AREA THAT WILL REMAIN IDLE FOR MORE THAN 1 YEAR OR OVER THE WINTER, OR ON WHICH WORK IS TO BE SUSPENDED. SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF MOST RECENT DISTURBANCE, DISTURBED AREAS SHALL BE STABILIZED PRIOR TO THE ONSET OF WINTER, EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED IN FUNCTIONAL CONDITION DURING INTERRUPTION OF CONSTRUCTION.
- 11.AS CONSTRUCTION IS COMPLETED ON A PART OF THE PROJECT SITE OR AN AREA ON OR OFF THE SITE IS NO LONGER NEEDED FOR STORAGE OR EQUIPMENT TRAFFIC, ANY DISTURBED AREAS NOT TO BE PAVED SHALL BE FINE GRADED AND PERMANENTLY STABILIZED. THE AREAS SHALL BE GRADED TO BE CONSISTENT WITH SURROUNDING CONTOURS FOR PROPER DRAINAGE AND AESTHETICS.

#### EROSION CONTROL GENERAL NOTES

- 12. ANY SITE PREPARATION THAT WILL INVOLVE EARTH MOVING (SUCH AS CLEARING AND GRUBBING) WILL NOT BEGIN MORE THAN 2 WEEKS IN ADVANCE OF THE START OF EXCAVATION. THE PURPOSE OF THIS RESTRICTION IS TO PREVENT THE EXISTENCE OF LARGE AREAS OF EXPOSED SOILS FOR EXTENDED PERIODS OF TIME WHEN CONSTRUCTION IS NOT PROCEEDING.
- 13. ALL DISTURBED VEGETATION IS TO BE RESEEDED AS PART OF RESTORATION, UNLESS THE AREA WILL BE PAVED OR OCCUPIED BY ABOVE GROUND FACILITIES. TOP SOILING FOR THE RESTORATION OF VEGETATED AREAS DISTURBED BY CONSTRUCTION SHALL AVERAGE (6) INCHES IN THICKNESS.
- 14. ALL DEWATERING FLOWS SHALL BE SILT-FREE PRIOR TO DISCHARGE, AND DISCHARGE SHALL BE DIRECTLY TO STABILIZED SITES SUCH AS STREAMS, STORM SEWERS OR EXISTING GRASSED DRAINAGES, NOT ONTO EXPOSED SOILS OR ANY OTHER SITE WHERE FLOWS COULD CAUSE EROSION.
- 15. IF, DUE TO WEATHER, FINAL GRADING CANNOT BE ACCOMPLISHED IMMEDIATELY, MULCHING AND TEMPORARY SEEDING, IF FEASIBLE, OR SOME OTHER TYPE OF TEMPORARY EROSION CONTROL MEASURES, MUST BE USED UNTIL LONG-TERM RESTORATION CAN OCCUR.
- 16. STOCK PILED TOPSOIL AND FILL MATERIALS SHALL BE PROTECTED WITH EROSION CONTROL BARRIERS OR TEMPORARY SEEDING.
- 17. IN AREAS WHERE EARTH MOVING WILL BE EXTENSIVE, A COMBINATION OF DIVERSION CHANNELS (WITH EROSION CONTROL BARRIERS) AND SEDIMENTATION BASINS SHALL BE USED TO CONTROL RUNOFF AND
- 18. EXCESS SOIL THAT IS STOCK PILED MUST BE EITHER REMOVED OR REGRADED WITHIN 15 DAYS OF THE COMPLETION OF THE CONSTRUCTION
- 19. IF TREE REMOVAL IS NECESSARY, TREES SHALL BE FELLED IN A MANNER THAT AVOIDS DAMAGE TO ADJACENT TREES TO REMAIN STANDING. WHERE ROOT DAMAGE CANNOT BE AVOIDED, PRUNING AS APPROPRIATE TO COMPENSATE FOR THE DAMAGE SHALL BE DONE BY AN AUTHORIZED ARBORIST.
- 20. NO FILL, TOPSOIL OR HEAVY EQUIPMENT SHALL BE STORED WITHIN 200 FEET OF A STREAM BANK OR WITHIN THE DRIP LINE OF TREED AREAS.
- 21. CONSTRUCTION AND RESTORATION ACTIVITIES SHALL NOT SIGNIFICANTLY ALTER EXISTING DRAINAGE PATTERNS AND/OR VELOCITY OF STORM WATER FLOW.
- 22. THE EROSION CONTROL MEASURES DESCRIBED HEREIN ARE TYPICAL THE CONTRACTOR SHALL USE THIS PLAN AS A GUIDE TO CONTROL EROSION. IN THE EVENT OF ADVERSE WEATHER CONDITIONS, ETC. ADDITIONAL MEASURES SHOULD BE TAKEN TO ESTABLISH AND MAINTAIN PROTECTIVE VEGETATION.
- 23. CONTINUOUS MAINTENANCE WILL BE REQUIRED AS NECESSARY UNTIL PERMANENT, STABLE VEGETATIVE COVER HAS BEEN ESTABLISHED AND EROSION HAS BEEN CONTROLLED. THIS INCLUDES BUT IS NOT LIMITED TO RESERVING, MULCHING, FARTH FILLING, ETC.
- 24. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM WITH RESPECT TO AREAS EXPOSED AND TIME OF EXPOSURE, ALL TOPSOIL SHALL BE STOCKPILED.
- 25. TO ASSIST IN EROSION CONTROL, ALL TREES AND VEGETATION OUTSIDE OF GRADED AREAS SHALL REMAIN
- 26. SILT FENCE FABRIC SHALL BE EXXON GTF-100S OR APPROVED EQUAL.
- 27. ADJACENT ROADS SHALL BE KEPT FREE OF DIRT AND DEBRIS AT ALL TIMES.

- 28. ALL S.W.P.P.P. ITEMS MUST BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS.
- 30. OTHER EROSION CONTROL AND SEDIMEN CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- CORRECTIVE MEASURES TAKEN

- DEPA-DSW STORM WATER INSPECTOR.
- CREATED AND MAINTAINED ALONG SUCH AREAS.
- HIGH WATER MARK.



INLET PROTECTION INLET PROTECTION TO BE PLACED AT ALL INLETS ARE INSTALLED, UNTIL SITE IS STABILIZED.

EXTENSION OF FABRIC

AND WRF INTO THE

FILTER FABRIC



CANTON, OHIO     DESCRIPTION     DESCRIPTION     DATE     BY     REVISIONS       EAST SIDE INTERCEPTOR SEWER RELOCATION     TMK     NO.     DESCRIPTIONS     DATE     BY     APP ¹ PRAVE     TMK     NO.     DESCRIPTIONS     DATE     BY     APP ¹ C.P.     #1113     CHECKED BY     APPROVED BY		THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CTI ENGINEERS (CTI), WHICH SHALL BE	DEEMED THE AUTHOR AND WHICH SHALL RETAIN ALL STATUTORY AND COMMON LAW RIGHTS.	INCLUDING COPYRIGHTS, THIS DRAWING SHALL NOT BE SCRANNED COPPRIGHTS, THIS DRAWING SHALL NOT BE SCRANNED COPPRIGHTS, THIS DRAWING SHALL NOT	IN ANY FORM OR USED FOR ANY DIHER PURPOSE	CTL CTL IS NOT RESPONSIBLE FOR CONSENT OF CTL CTL IS NOT RESPONSIBLE FOR CONSENT OF	THIS DRAWING OR PORTIONS THEREOF.	
V, OHIO     Description     REVISIONS       NTERCEPTOR     DMK     NO.     DESCRIPTIONS       TMK     NO.     DESCRIPTIONS     DESCRIPTIONS       FLOCATION     AJP     D     DESCRIPTIONS     D       #1113     CHEORE BY     D     D     D     D       #1113     CHEORE BY     D     D     D     D     D       #100 DETAILS     MAD     MAD     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D		APP'D						Γ
V, OHIO     Description     REVISIONS       NTERCEPTOR     DMK     NO.     DESCRIPTIONS       TMK     NO.     DESCRIPTIONS     DESCRIPTIONS       FLOCATION     AJP     D     DESCRIPTIONS     D       #1113     CHEORE BY     D     D     D     D       #1113     CHEORE BY     D     D     D     D     D       #100 DETAILS     MAD     MAD     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D		ΒY						
V, OHIO DESIGNED BY   NTERCEPTOR TMK NO.   ELOCATION AJP   #1113 CHEORED BY   AND DETAILS APPROVED BY   MAD DETAILS		DATE						
M, OHIO NTERCEPTOR ELOCATION #1113 AND DETAILS WAD	REVISIONS	DESCRIPTIONS						
M, OHIO NTERCEPTOR ELOCATION #1113 AND DETAILS WAD		NO.						
Z Z 111 716	DESIGNED BY	AME	DRAWN BY	AJP	CHECKED BY	YML Y	APPROVED BY	MAD
			2		- 1	1.10	ഗ	

EROSION CONTROL BLANKETS WITH MATTING WILL BE USED ON DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES GREATER THAN 6.0% GRADE.

31. REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES IN A 24 HOUR PERIOD. PROVIDE NAME OF INSPECTOR. MAJOR OBSERVATIONS, DATE OF INSPECTION, CERTIFICATION OF COMPLIANCE AND

32. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

33. OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD(S) NOTED ON THE PLAN.

34, FILTER FABRIC AND STRAW BALES ARE NOT SUITABLE MATERIALS FOR DITCH CHECKS UNLESS PRIOR APPROVAL FOR LOCATION SPECIFIC USE IS GIVEN BY THE

35. STRAW BALES SHALL ONLY BE USED FOR RUNOFF DIVERSION AND SEDIMENT CONTROL IN COMBINATION WITH OTHER MATERIALS. AN EXAMPLE IS AN ANCHORED BALE BERM OR BARRIER COVERED WITH FILTER FABRIC WHICH IS TRENCHED AND BACKFILLED ON THE UPSLOPE SIDE.

36. UNNECESSARY OPERATION OF CONSTRUCTION MACHINERY SHALL BE AVOIDED. A BUFFER STRIP OF VEGETATION SHALL BE PRESERVED UNDISTURBED OR ARIAN AREA

37. PRIOR TO STARTING WORK, FILTER FABRIC FENCING SHALL BE INSTALLED AND MAINTAINED TO MARK THE BOUNDARY OF THE AREA TO BE DISTURBED OR THE BUFFER STRIP, THE BUFFER SHALL MEET THE MOST RESTRICTIVE OF LOCAL, STATE OR FEDERAL REQUIREMENTS, BUT SHOULD BE AT LEAST 25 FEET WDE WHERE FEASIBLE, AS MEASURED FROM THE TOP OF THE BANK OR THE ORDINARY