STRUCTURAL LEGEND

- Existing Structure
- Existing Structure To Be Removed
- New Concrete Structure
- New Block Wall
- New Brick Wall

VALVE SYMBOL LEGEND

- Gate, Knife Gate, Butterfly Or Globe Valves
- Plug Valve
- Ball Valve
- Pinch Valve
- Check Valve

Note:
For Symbols Used For Piping Isometric Diagrams, See Sheet No. _

STANDARD ABBREVIATIONS

Alum.	Aluminum	Max.	Maximum
Ave.	Avenue	MH	Manhole
BM	Bench Mark	MJ	Mechanical Joint
BF	Blind Flange	Min.	Minimum
Bldg.	Building	N	North
c/c	Center To Center	NTS	Not To Scale
Ck'd Pl.	Checkered Plate	OC	On Center
Conc.	Concrete	OD	Outside Diameter
Dia.	Diameter	PE	Plain End
Dwg.	Drawing	R	Radius
EW	Each Way	RR	Railroad
EF	Each Face	S	South
Ecc.	Eccentric	Sch.	Schedule
El.	Elevation	Sh.	Sheet
E	East	SS	Stainless Steel
Exist.	Existing	St.	Street
F	Flange	Sta.	Station
' or Ft.	Feet or Foot	T&B	Top And Bottom
Gal.	Gallon	Typ.	Typical
Gr.	Grade	Vert.	Vertical
Hor.	Horizontal	W	West
" or in.	Inch	w/	With
ID	Inside Diameter		
Inv. El.	Invert Elevation		

PIPING AND EQUIPMENT LEGEND

- Existing Piping
- Existing Piping Or Equipment To Be Removed (if Yard Piping, Abandon And Remove As Required)
- Existing Piping Or Equipment To Be Relocated
- New Piping

8/12 = Number Of Section / Sheet Number On Which Section Is Shown

SECTION 3/4 = Number Of Section / Sheet Number On Which Section Is Cut

DELINEATION OF SECTIONS

(Sections Lettered Are Shown On Same Sheet)

A = Elevation View

5/7 = Number Of Detail In Section / Sheet Number On Which Detail Is Shown

6/7 = Number Of Detail In Plan / Sheet Number On Which Detail Is Shown

DETAIL 5/9 = Number Of Detail / Sheet Number On Which Detail Is Taken

DELINEATION OF BLOW – UP DETAILS

(Details Lettered Are Shown On Same Sheet)

PIPING ABBREVIATIONS

MATERIAL

ABS	ABS Acrylonitrile–Butadiene–Styrene
ABSC	ABS Composite Sewer Pipe (Truss Pipe)
BSP	Black Steel Pipe
CIP	Cast Iron Pipe
CISP	Cast Iron Soil Pipe
CMP	Corrugated Metal Pipe
CPP	Concrete Pressure Pipe
CPT	Corrugated Polyethylene Tubing
CPVC	Chlorinated Polyvinyl Chloride Pipe
Cu	Copper Tubing Or Piping
DIP	Ductile Iron Pipe
FRP	Fiberglass Reinforced Pipe
GLDIP	Glass–Lined Ductile Iron Pipe
GSP	Galvanized Steel Pipe
HDPE	High Density Polyethylene
PCP	Plain Concrete Pipe
PE	Polyethylene
PP	Polypropylene
PPVC	Perforated Polyvinyl Chloride Pipe
PVC	Polyvinyl Chloride Pipe
PVCP	Perforated Vitrified Clay Pipe
PVDF	Polyvinylidene Fluoride (Kynar)
RCP	Reinforced Concrete Pipe
SP	Steel Pipe
SSP	Stainless Steel Pipe
SWS	Spiral Welded Steel
UPVC	Unplasticized Polyvinyl Chloride Pipe
VCP	Vitrified Clay Pipe

SERVICE

PS	Primary Sludge
RAS	Return Activated Sludge
WAS	Waste Activated Sludge
DS	Digested Sludge
SC	Scum
SP	Supernatant
DG	Digester Gas
NG	Natural Gas
CW	City Water
HW	Hot City Water
EW	Effluent Water
PW	Protected Water
CA	Compressed Air
TD	Tank Drain
SS	Sanitary Sewer

TOPOGRAPHY LEGEND

TOPOGRAPHY LINES:

- Center Line
- Fence Line
- Property Line
- Permanent Easement
- Construction Easement

UTILITY LINES:

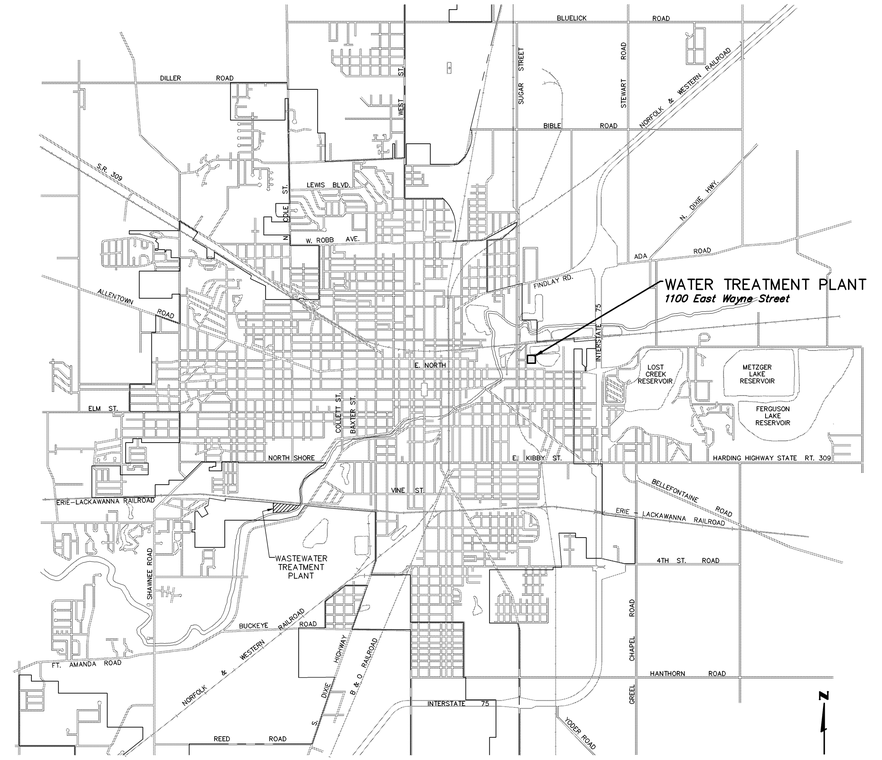
- Cable (Underground)*
- Combined Sewer
- Electrical (Underground)*
- Gas Line
- Sanitary Sewer
- Signal (Underground)*
- Storm Sewer
- Telephone (Underground)*
- Water Line
- Large Diameter Lines (Any Type)

Alpha Designation Refers To Utility Type, Numerical Designation Refers To Pipe Nominal Diameter. Lines With No Numerical Designation Are Of Unknown Size.

* Aerial Lines, If Shown, Are Designated With Lower Case Letters

SYMBOLS:

- MH — Manhole
- PP — Power Pole Or Telephone Pole
- LP — Light Pole
- FH,YH — Fire Hydrant Or Yard Hydrant
- Valve
- CO — Clean Out
- IP — Iron Pin (Or Labeled Post, Marker Etc.)
- CB — Catch Basin
- Boring B–2 — Soil Boring



LOCATION MAP

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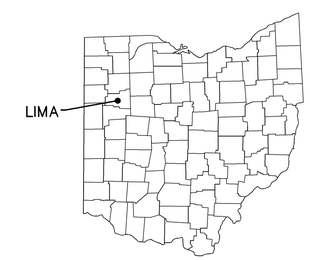
18. WALKWAY/BRIDGE REPLACEMENT SECTIONS AND DETAILS

MD–1 CONCRETE DETAILS

MD–2 MISCELLANEOUS DETAILS



Note:
All Notes On The Drawings Bear The Same Importance. Some Notes And Dimensions Are Bold To Aid In Reading The Drawings In Areas Of High Graphic Density.

NOTE: ACCURACY OF EXISTING ELEVATIONS AND DIMENSIONS IS NOT GUARANTEED. FIELD VERIFY BEFORE CONSTRUCTION.

THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

CITY OF LIMA, OHIO
WTP IMPROVEMENTS
CONTRACT 53

NO.	DATE	REVISIONS AFTER ISSUED FOR BID	BY
5			
4			
3			
2			
1			

STATUS: ISSUED FOR BID	DESIGNED	DRAWN	CHECKED
DATE: JANUARY 2012	TCM	BJD	TCM

INDEX, LEGENDS AND LOCATION MAP

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1 OF 20

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