

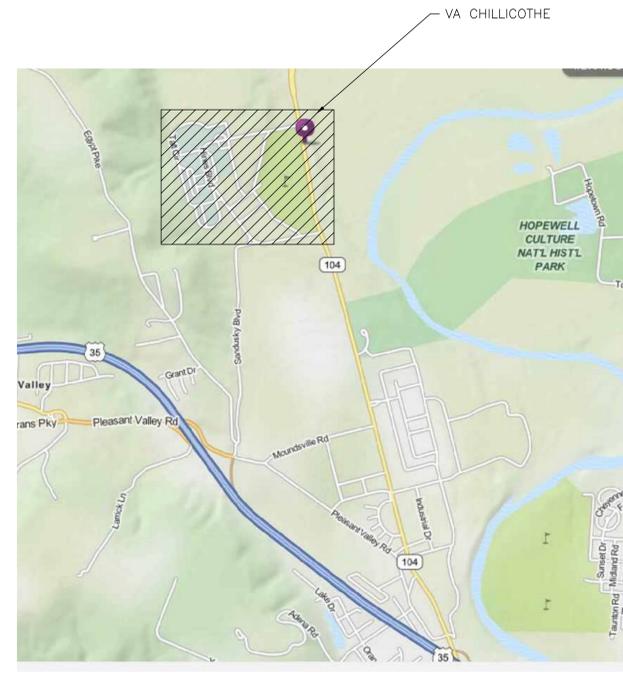
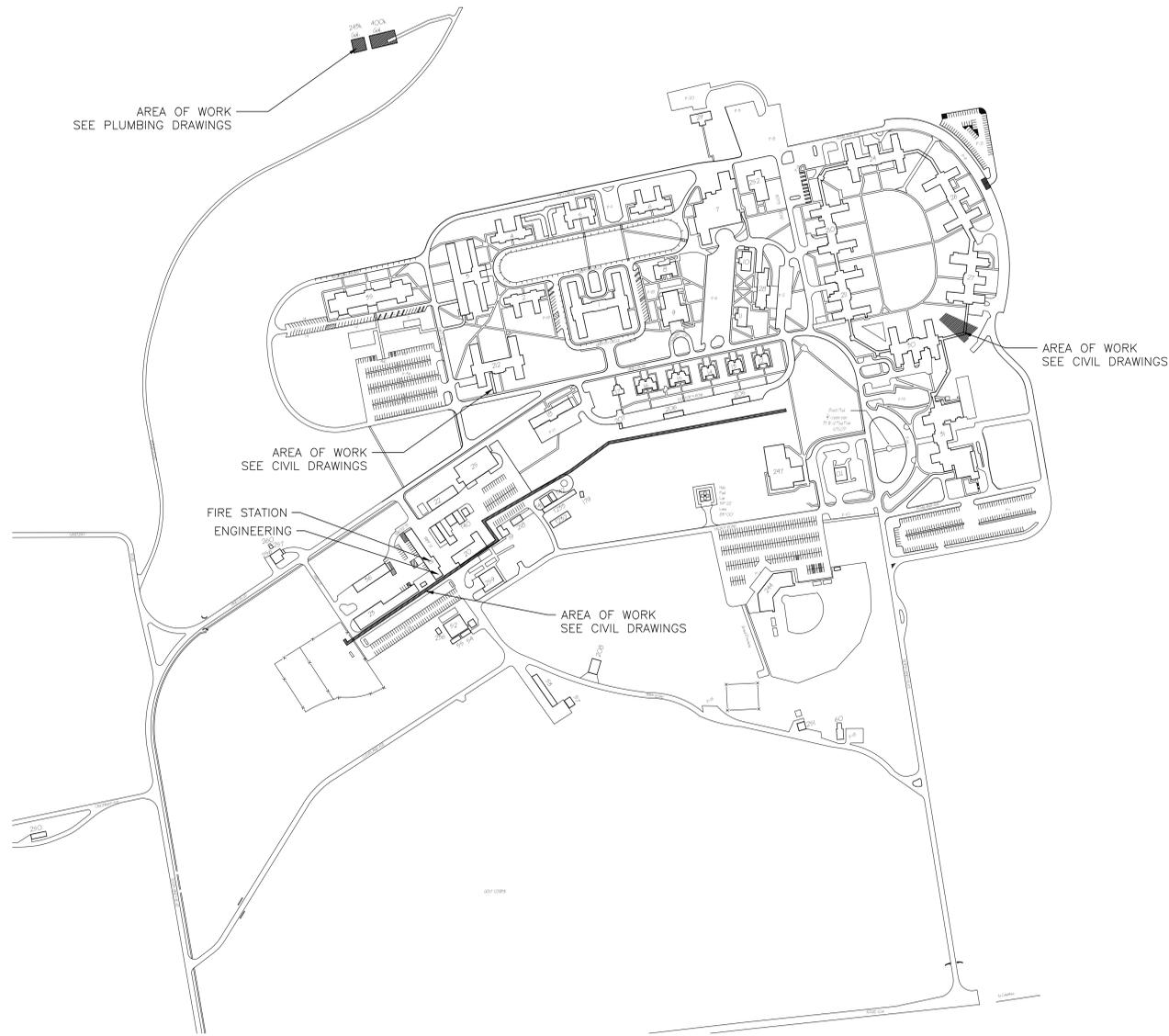


REPLACE WATER MAIN

at the
Department of Veterans Affairs Medical Center
17273 State Route 104
Chillicothe, Ohio 45601-9718
Construction Documents

GENERAL NOTES

- COTR IS THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE.
- ALL PROJECT WORK MUST BE COORDINATED WITH THE COTR TO MAINTAIN OPERATIONS OF THE EXISTING HOSPITAL FACILITIES. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE PROJECT COTR OF ANY WORK THAT MIGHT REQUIRE INTERRUPTION OF UTILITY SERVICES. ALL SUCH INTERRUPTIONS SHALL BE SCHEDULED AS OUTLINED IN THE PROJECT SPECIFICATIONS.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE OR NATIONAL CODES AND REGULATIONS INCLUDING THE AMERICAN WITH DISABILITY ACT (ADA) AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) GUIDELINES.
- EACH CONTRACTOR & SUB-CONTRACTOR IS RESPONSIBLE FOR A COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THE SET OF DRAWINGS.
- ANY MATERIAL OR LABOR, NEITHER SHOWN ON THE DRAWINGS NOR SPECIFIED, BUT WHICH IS NECESSARY TO COMPLETE THE WORK OF A SIMILAR NATURE SHALL BE FURNISHED WITHOUT COST TO THE OWNER OR ARCHITECT.
- EACH CONTRACTOR & THEIR SUB-CONTRACTORS SHALL PROVIDE ALL MATERIAL, LABOR, AND EQUIPMENT TO COMPLETE ALL THEIR WORK AND FURNISHING A COMPLETE JOB (UNLESS NOTED OTHERWISE) IN ACCORDANCE WITH AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
- DRAWINGS INDICATE THE MINIMUM STANDARDS. IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN THEIR WORK, AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COST.
- EACH CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING MATERIALS REQUIRED TO PERFORM THEIR WORK. THIS INCLUDES THE PATCHING OF MATERIALS TO A "LIKE NEW" CONDITION.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LAYING OUT ALL WORK.
- EACH CONTRACTOR IS RESPONSIBLE TO PROTECT THEIR WORK, MATERIALS, AND OWNERS PROPERTY AGAINST DAMAGE AND THEFT.
- EACH CONTRACTOR IS RESPONSIBLE TO PERFORM THEIR WORK IN ACCORDANCE WITH ALL STATE, AND O.S.H.A. REGULATIONS AND SHALL MAINTAIN A CLEAN AND ORDERLY WORK AND STORAGE AREA.
- IF A DISCREPANCY EXISTS IN THE DRAWINGS OR SPECIFICATIONS, THE GREATER QUALITY OR QUANTITY SHALL BE PROVIDED.
- ALL CONTRACTORS ARE TO ACCOMPLISH WORK IN A MANNER THAT WILL NOT DISTURB ADJACENT SITE AREAS AS MUCH AS POSSIBLE.
- THE GENERAL CONTRACTOR IS TO COORDINATE FINAL CONSTRUCTION AREA CLEAN-UP.
- CONTRACTOR TO MAINTAIN ACCESS TO EXISTING BUILDINGS DURING DEMOLITION AND CONSTRUCTION.
- ALL EXISTING CONSTRUCTION TO REMAIN THAT IS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE PATCHED OR RESTORED TO MATCH EXISTING ADJACENT CONSTRUCTION UNLESS OTHERWISE INDICATED.
- IT IS A REQUIREMENT OF THE PROJECT THAT THE NEW WATER MAIN IS INSTALLED AND PLACED IN SERVICE WITH MINIMAL INTERRUPTION TO THE VA FACILITY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD INSPECT THE PROJECT LIMITS PRIOR TO CONSTRUCTION AND DETERMINE SIZE, NUMBER AND LIMITS OF VISIBLE OBSTRUCTIONS WHICH ARE TO BE REMOVED, RELOCATED AND SALVAGED INCLUDING VEGETATION, UTILITIES, ETC.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON A COMPILATION OF RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURE. EXACT LOCATIONS CANNOT BE VERIFIED.



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CAMPUS MAP
SCALE: 1:250

VICINITY MAP
SCALE: NTS

FOR CONSTRUCTION	Date
90% CONSTRUCTION DOCUMENTS-RESUBMITTAL	12/20/12
90% CONSTRUCTION DOCUMENTS	11/21/12
35% SCHEMATIC DESIGN	10/22/12
Revisions	9/18/12
	Date

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STATE OF OHIO
 REGISTERED ARCHITECT
 ALAN R. SCHEFF, LICENSE #6558
 EXPIRATION DATE 12/31/13

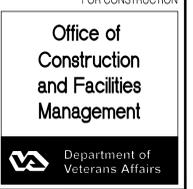
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KLEINGERS & ASSOCIATES

Drawing Title TITLE SHEET	Project Title REPLACE WATER MAINS	Project Number VA # 538-12-116 ASA # 1252
Approved Project Director -	Location CHILICOTHE OH	Building Number SITE
	Date 12/20/12	Drawing Number G101
	Checked AS	Drawn VP
		Dwg. 1 of 12

Office of Construction and Facilities Management
Department of Veterans Affairs



GENERAL NOTES

1. ALL PLANS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT ROSS COUNTY, DEPARTMENT OF VETERANS AFFAIRS RFP, AND APPLICABLE OHIO DEPARTMENT OF TRANSPORTATION STANDARDS.
2. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH DEPARTMENT OF VETERANS AFFAIRS.
3. ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF ROSS COUNTY AND THE DEPARTMENT OF VETERANS AFFAIRS.
4. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
5. ALL STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
6. CONCRETE WALKS SHALL BE 4" THICK WITH CONTROL JOINTS SPACED AT 6'; OR WIDTH OF WALK, ON CENTER.
7. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
8. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO EXISTING CONDITIONS.

GRADING NOTES

1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND OTHER VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS ROOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
5. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL, PRACTICES REQUIRED BY ROSS COUNTY, AND THE OHIO EPA.
6. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH ODOT ITEM 659.
7. CONTRACTOR TO REMOVE & REPLACE PAVEMENT AS SPECIFIED ON PLANS.
8. CONTRACTOR IS RESPONSIBLE FOR ANDY IMPORT OR EXPORT OF SOILS/SPOILS. EXCESS MATERIAL SHALL BE LEGALLY DISPOSED OF OFFSITE.

UTILITY NOTES

1. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED WATER LINE PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID WATER LINES. ALL FILLS SHALL BE DONE IN 6" LIFTS AND SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
2. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
3. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
4. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS.
5. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
6. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS. OWNER WILL OBTAIN REPORTS.
7. FORTY-EIGHT HOURS PRIOR TO ANY CONSTRUCTION, EXCAVATION OR DIGGING, THE CONTRACTOR SHALL CALL AND NOTIFY THE OHIO UTILITIES PROTECTION SERVICES (OUPS) AT 1-800-362-2764. ALL OTHER AGENCIES, WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THIS AREA AND ARE NOT MEMBERS OF OUPS, SHALL BE NOTIFIED DIRECTLY BY THE CONTRACTOR.
8. WATER MAINS SHALL HAVE A MINIMUM COVER OF 4 FEET. WATER MAINS SHALL HAVE A MINIMUM OF 10 FEET HORIZONTAL SEPARATION (OUT-TO-OUT) FROM ANY STORM OR SANITARY SEWER.
9. THE SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL BE IN ACCORDANCE WITH TEN STATES STANDARDS.
10. WATER MAINS CROSSING ANY AND ALL SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE OUTSIDES OF THE PIPES (OUT TO OUT). ALSO, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SUCH THAT BOTH JOINTS WILL BE OF EQUAL DISTANT AND AS FAR FROM THE SEWER AS POSSIBLE. IF WATER MAIN CROSSES BELOW SANITARY SEWERS, THE SANITARY SEWER MUST BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT PIPE COMPLYING WITH AWWA C651 AND PRESSURE TESTED TO 150 PSI TO ASSURE WATER TIGHTNESS.
11. WATER MAINS, BENDS AND FITTINGS SHALL BE DUCTILE CAST IRON PIPE AND CONFORM TO AWWA C151, PRESSURE CLASS 350 FOR PIPE 4" OR LARGER IN DIAMETER. PIPE SMALLER THAN 4" IN DIAMETER SHALL BE PVC, SCHEDULE 80, OR TYPE K COPPER.
12. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C-600.
13. FLUSH AND DISINFECT NEW WATER LINES IN ACCORDANCE WITH AWWA C651, THE SLUG METHOD SHALL BE USED TO DISINFECT NEW WATERLINES.
14. NO WATER SERVICE BRANCH SHALL BE LAID IN THE SAME TRENCH WITH A SANITARY SEWER LATERAL.
15. WATER SERVICES SMALLER THAN 3" IN DIAMETER SHALL BE CONNECTED TO THE WATER MAIN WITH A CORP STOP. WATER SERVICES 3" OR LARGER IN DIAMETER SHALL BE CONNECTED TO THE WATER MAIN WITH A TAPPING SLEEVE AND VALVE OR TEE.
16. THE EXISTING UTILITIES SHOWN ARE FROM A COMBINATION OF FIELD SURVEY AND RECORD INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING HORIZONTALLY AND VERTICALLY ALL UTILITIES WITHIN THE PROJECT LIMITS. ANY CONFLICTS WITH THE PROPOSED WORK SHALL BE DOCUMENTED AND FORWARDED TO THE COTR AND ENGINEER PRIOR TO INSTALLATION. ANY DAMAGE TO THE EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

CONSTRUCTION SEQUENCE AND PHASING

1. EXPOSE AND LOCATE ALL EXISTING UTILITIES THAT ARE INSIDE THE CONSTRUCTION LIMITS FOR THE PROJECT.
2. PHASE WATER LINE INSTALLATION SUCH THAT WATER SERVICE IS AS UNINTERRUPTED AS POSSIBLE.
3. OPEN CUT AND INSTALL NEW 8" WATER LINE, FROM STATION 0+00 TO STATION 7+54.51, WITHOUT DISRUPTING EXISTING SERVICES. TEST AND DISINFECT NEW WATER LINE PER PROJECT SPECIFICATIONS.
4. CONNECT TO THE EXISTING LATERAL SERVICES.
5. MAKE CONNECTIONS TO THE EXISTING 8" MAIN AND DISCONNECT EXISTING 8" MAIN.
6. REMOVE ALL EXISTING 8" MAIN AND EXISTING SERVICES THAT WERE REPLACED.
7. BACKFILL AND REPAIR/REPLACE HARD SURFACE AND SEED.
8. OPEN CUT AND INSTALL NEW 8" WATER LINE, FROM STATIONS 7+54.51 TO 12+21.36. TEST, DISINFECT AND MAKE CONNECTIONS TO EXISTING LIVE WATER LINE. BACKFILL AND REPAIR/REPLACE HARD SURFACE AND SEED.
9. OPEN CUT AND INSTALL NEW 8" WATER LINE, FROM STATIONS 12+21.36 TO 21+15.68. TEST, DISINFECT AND MAKE CONNECTIONS TO THE EXISTING LATERAL SERVICES. CONNECT TO THE EXISTING LIVE WATERLINES. BACKFILL AND REPAIR/REPLACE HARD SURFACE AND SEED.
10. CUT AND PLUG EXISTING WATERMANS, WHERE DESIGNATED ON THE PLANS, AND ABANDON IN PLACE.

LEGEND

EXISTING SYMBOLS	PROPOSED SYMBOLS
PROJECT BENCHMARK	POWER POLE
IRON PIN FOUND	LIGHT POLE
IRON PIPE FOUND	GUY WIRE
STONE FOUND	PULL BOX
5/8" IRON PIN SET	FENCE LINE
GUARD POLE	OVERHEAD ELECTRIC
MAIL BOX	UNDERGROUND ELECTRIC
BUSH	UNDERGROUND TELEPHONE
TREE	OVERHEAD CABLE TV
SIGN	STORM SEWER
CATCHBASIN	SANITARY SEWER
DOWNSPOUT	WATER LINE
WATER METER	GAS LINE
HYDRANT	TREELINE
GAS METER	MINOR CONTOUR
	MAJOR CONTOUR
	CONSTRUCTION LIMITS
	ASPHALT PAVEMENT REPLACEMENT
	CONCRETE REPLACEMENT

BENCHMARKS

- BM "A"**
BOX CUT ON LIGHT POLE BASE, LOCATED EAST OF BUILDING 25. ELEV. 661.15
- BM "B"**
BOX CUT ON LIGHT POLE BASE, LOCATED EAST OF BUILDING 212 AND SOUTH OF BUILDING 18. ELEV. 677.79
- BM "C"**
BOX CUT ON FLAG POLE PAD, LOCATED SOUTH OF BUILDING 31. ELEV. 676.41

BASIS OF BEARINGS

BEARINGS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, OHIO SOUTH ZONE (NAD83-CORS), AS DETERMINED BY A GPS SURVEY UTILIZING ODOT CORS STATION OHIO AS MAINTAINED BY THE OHIO DEPARTMENT OF TRANSPORTATION.

DATUM

VERTICAL DATUM IS NAVD 1988 BASED ON BENCHMARK U166.

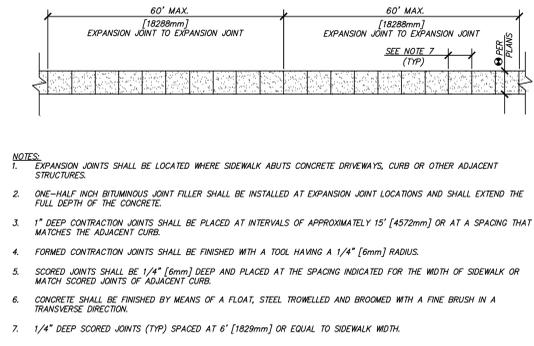
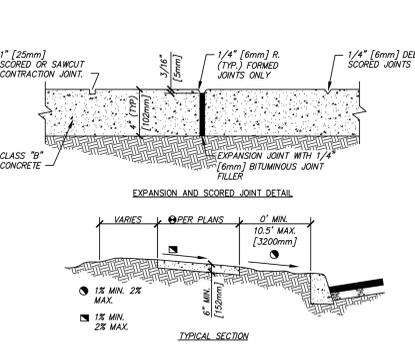
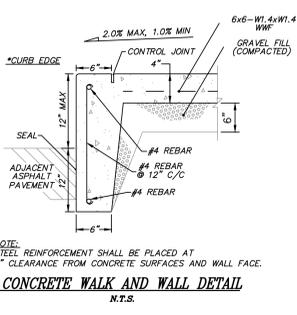
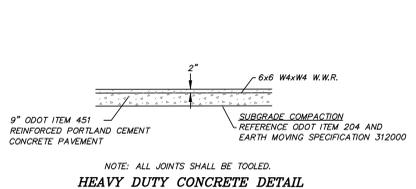
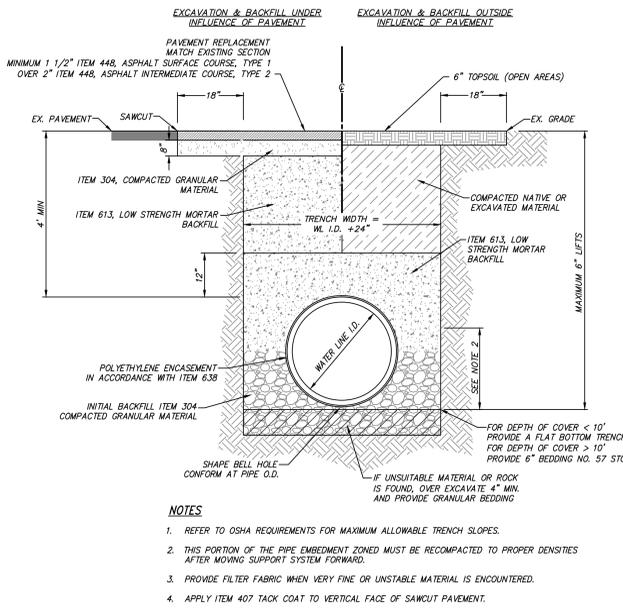
SITE SURVEY

TOPOGRAPHIC INFORMATION BASED ON SURVEY COMPLETED BY KLEINGERS & ASSOCIATES IN 2010.

UNDERGROUND UTILITIES

UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES. EXACT LOCATIONS CANNOT BE VERIFIED.

DESCRIPTION	STATION	NORTHING	EASTING
45' HORIZONTAL BEND	0+00.00	504616.26	1822305.26
45' HORIZONTAL BEND	0+03.12	504618.35	1822305.60
8"x8" TEE	0+07.81	504622.15	1822302.85
8"x8" TEE	0+41.89	504649.76	1822282.88
3/4" CORP STOP	1+88.29	504768.41	1822197.10
3/4" CORP STOP	3+15.24	504871.28	1822122.72
8"x8" TEE	4+07.91	504946.38	1822068.42
8" VALVE	4+22.92	504958.55	1822059.63
8"x8" TEE (VERIFY SIZE)	4+25.90	504960.95	1822057.88
8" VALVE	4+28.92	504963.41	1822056.11
8"x8" TEE	4+32.77	504966.52	1822053.86
8"x8" TEE	4+97.68	505019.14	1822015.85
45' HORIZONTAL BEND	6+54.72	505146.18	1821923.60
45' HORIZONTAL BEND	6+68.86	505148.03	1821909.58
8" VALVE	7+52.51	505099.17	1821841.70
8"x12" TAPPING SLEEVE	7+54.51	505098.03	1821840.06
8"x12" TAPPING SLEEVE	7+54.51	505072.76	1821818.85
8" VALVE	7+56.51	505074.34	1821817.63
8" VALVE	8+99.22	505188.41	1821731.88
8"x8" TAPPING SLEEVE	9+01.22	505190.03	1821730.71
8"x8" TAPPING SLEEVE	9+01.22	505198.87	1821742.82
8" VALVE	9+03.22	505200.49	1821741.64
22.5' HORIZONTAL BEND	10+86.79	505348.78	1821633.45
11.25' HORIZONTAL BEND	12+21.36	505476.40	1821591.75
8" VALVE	12+24.36	505479.34	1821591.17
8"x8" TAPPING SLEEVE	12+26.36	505481.30	1821590.78
8"x8" TAPPING SLEEVE	12+26.36	505483.48	1821601.75
8" VALVE	12+28.36	505485.45	1821601.36
AIR BLOWOFF	13+60.68	505615.14	1821575.16
8"x8" TEE	15+62.94	505807.70	1821513.99
8" VALVE	15+64.94	505809.56	1821513.25
8"x8" TEE	17+45.00	505973.06	1821437.88
33.75' HORIZONTAL BEND	19+97.73	506201.62	1821330.02
45' HORIZONTAL BEND	20+95.68	506252.05	1821246.05
8" VALVE	20+98.69	506254.93	1821245.21
8"x8" TEE	21+00.68	506256.90	1821244.83
8" VALVE	21+13.68	506253.75	1821232.22
8"x8" TEE	21+15.68	506253.26	1821230.28



- NOTES:**
1. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
 2. ONE-HALF INCH BITUMINOUS JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
 3. 1" DEEP CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 15' (4572mm) OR AT A SPACING THAT MATCHES THE ADJACENT CURB.
 4. FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" (6mm) RADIUS.
 5. SCORED JOINTS SHALL BE 1/4" (6mm) DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
 6. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
 7. 1/4" DEEP SCORED JOINTS (TYP) SPACED AT 6' (1829mm) OR EQUAL TO SIDEWALK WIDTH.

100% CONSTRUCTION DOCUMENTS	12/20/2012
90% CONSTRUCTION DOCUMENTS RE-SUBMITTAL	11/21/2012
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35% SCHEMATIC DESIGN	09/18/12
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Drawing Title
GENERAL NOTES AND DETAILS

Approved Project Director

Project Title
REPLACE WATER MAINS

Location
CHILLICOTHE OH

Date
12/20/2012

Checked
MJC

Drawn
KLW

Project Number
VA # ESB-12-116
ASA # 1253

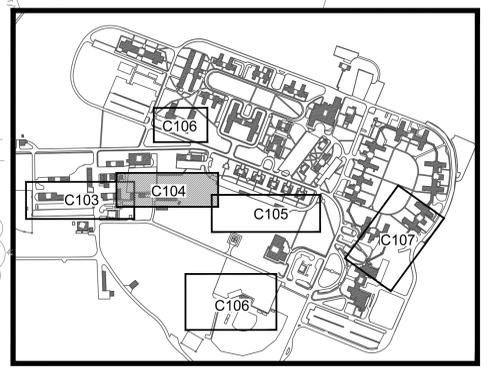
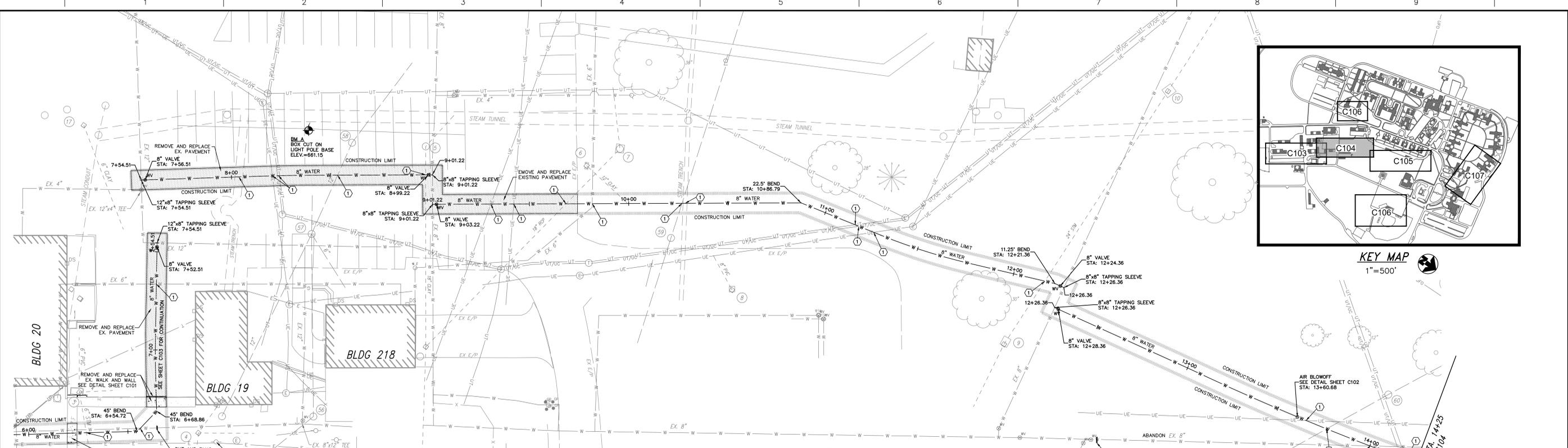
Building Number

Drawing Number
C101

Dwg 1 of xx

Office of Construction and Facilities Management

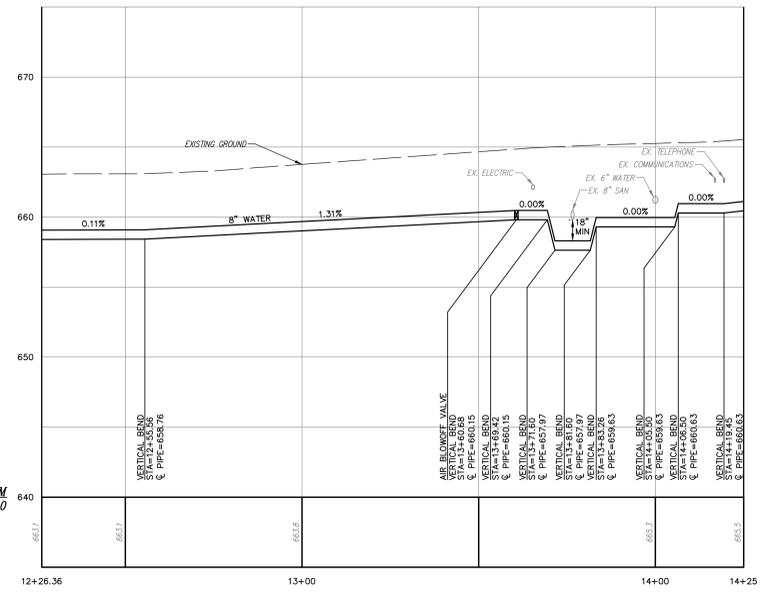
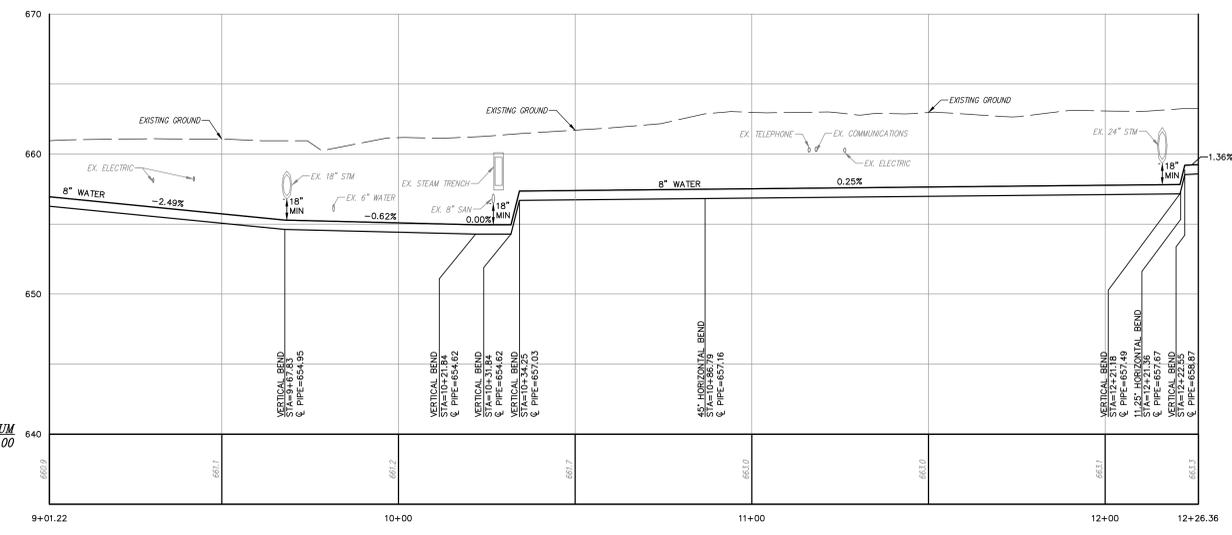
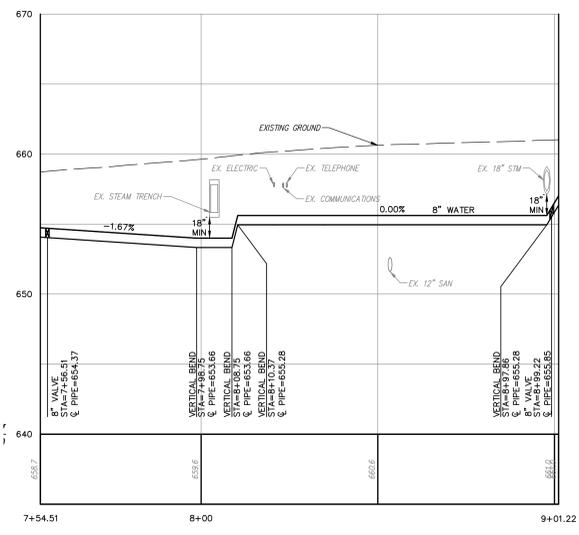
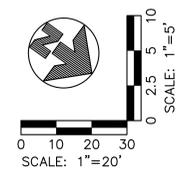
Department of Veterans Affairs



KEY MAP
1"=500'

CODED NOTES:
① EXPOSE CROSSING UTILITY

NOTES:
1. CONTRACTOR SHALL LOCATE, EXPOSE AND VERIFY SIZE OF ALL EXISTING UTILITIES NEAR PROJECT LIMITS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL PROVIDE THE COTR WITH INFORMATION PROVIDED BY THE CONTRACTOR'S UNDERGROUND UTILITY LOCATING SERVICE TO CONFIRM UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION ACTIVITIES.



UNDERGROUND UTILITIES

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Drawing Title
WATER LINE PLAN AND PROFILE

Approved: Project Director

Project Title
REPLACE WATER MAINS

Location
CHILLICOTHE OH

Date
12/20/2012

Checked
MJC

Drawn
KLW

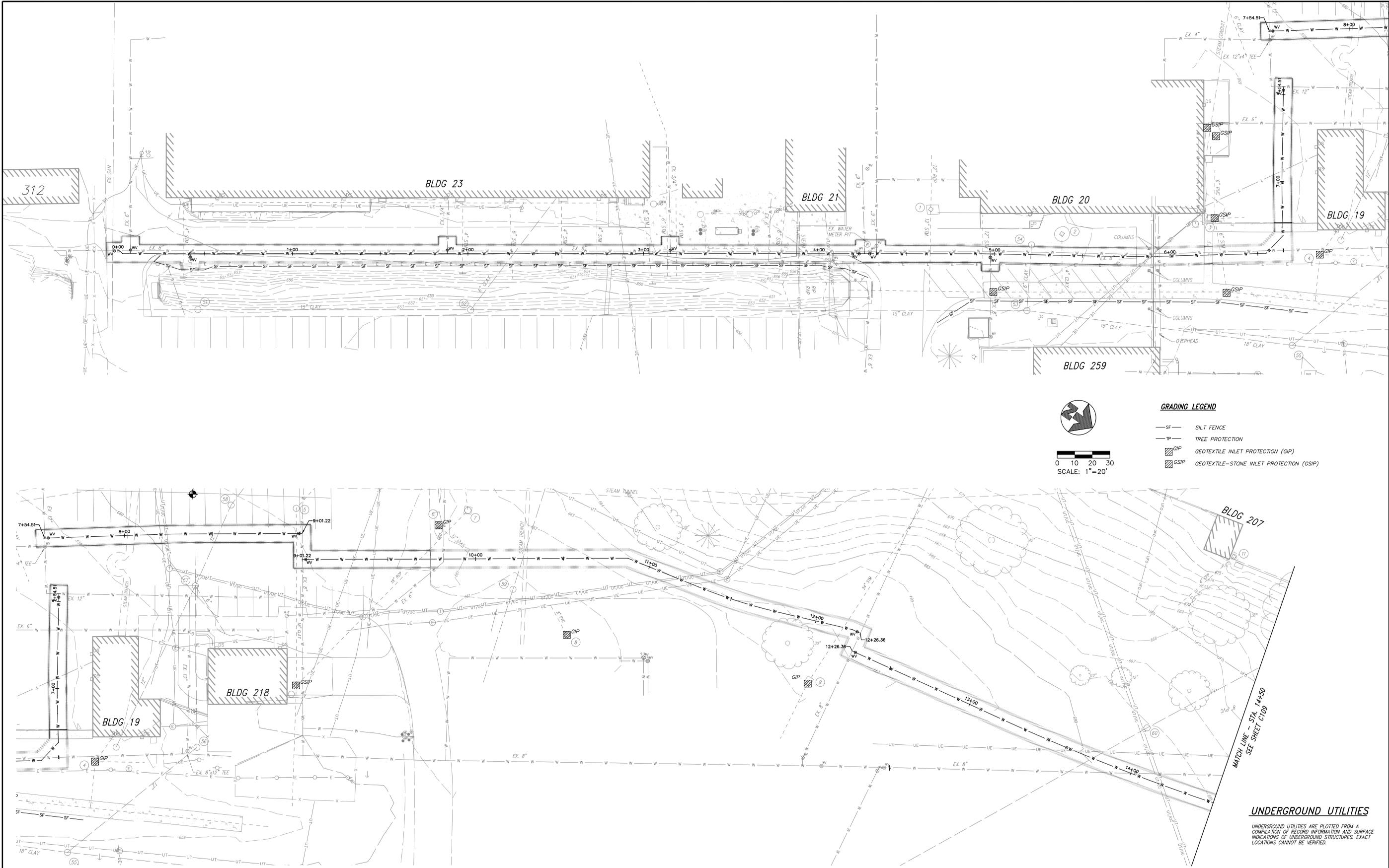
Project Number
VA # E08-12-116
ASA # 1253

Building Number

Drawing Number
C104
Dwg. 4 of XX

Office of Construction and Facilities Management

Department of Veterans Affairs



- GRADING LEGEND**
- SF — SILT FENCE
 - TP — TREE PROTECTION
 - ▨ GIP — GEOTEXTILE INLET PROTECTION (GIP)
 - ▨ GSIP — GEOTEXTILE-STONE INLET PROTECTION (GSIP)

UNDERGROUND UTILITIES
 UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES. EXACT LOCATIONS CANNOT BE VERIFIED.

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

100% CONSTRUCTION DOCUMENTS	12/20/2012
90% CONSTRUCTION DOCUMENTS RE-SUBMITTAL	11/21/2012
90% CONSTRUCTION DOCUMENTS	10/22/2012
35% SCHEMATIC DESIGN	09/18/12
Revisions:	Date

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Drawing Title
 EROSION AND SEDIMENT CONTROL PLAN

Approved: Project Director

Project Title
 REPLACE WATER MAINS

Location
 CHILLICOTHE OH

Date
 12/20/2012

Checked
 MJC

Drawn
 KLW

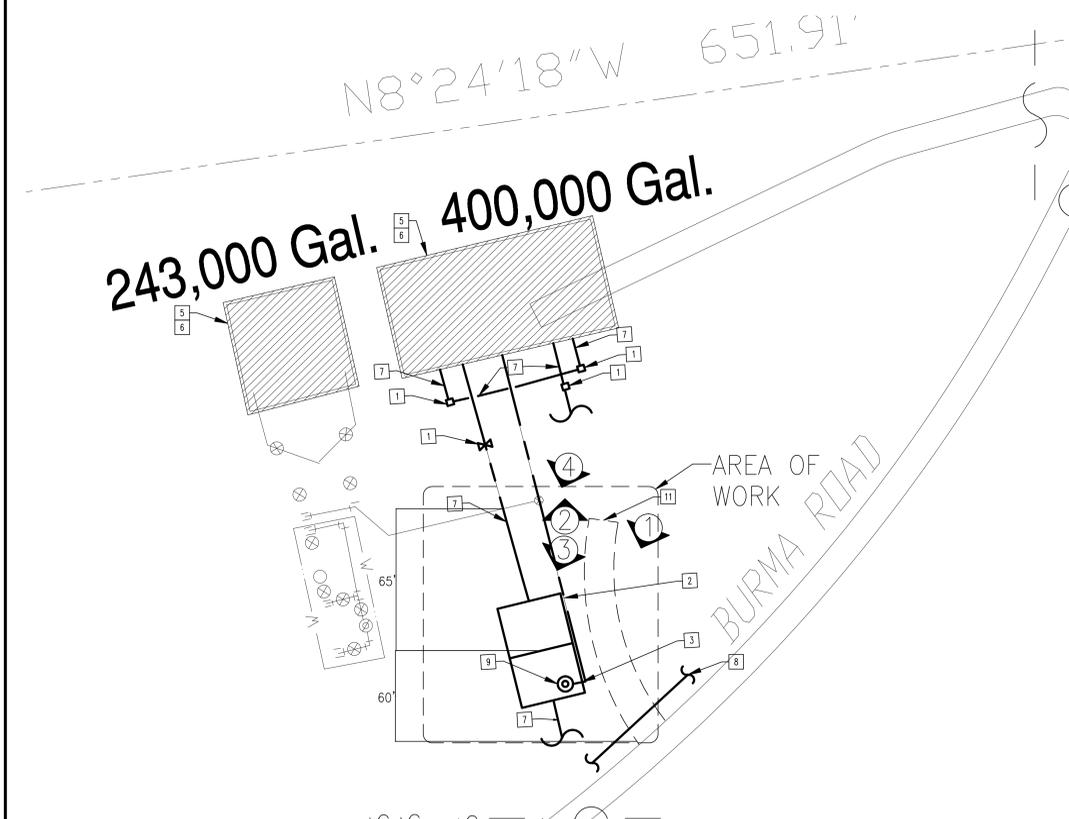
Project Number
 VA # ESB-12-116
 ASA # 1253
 Building Number

Drawing Number
C108
 Dwg. 8 of XX

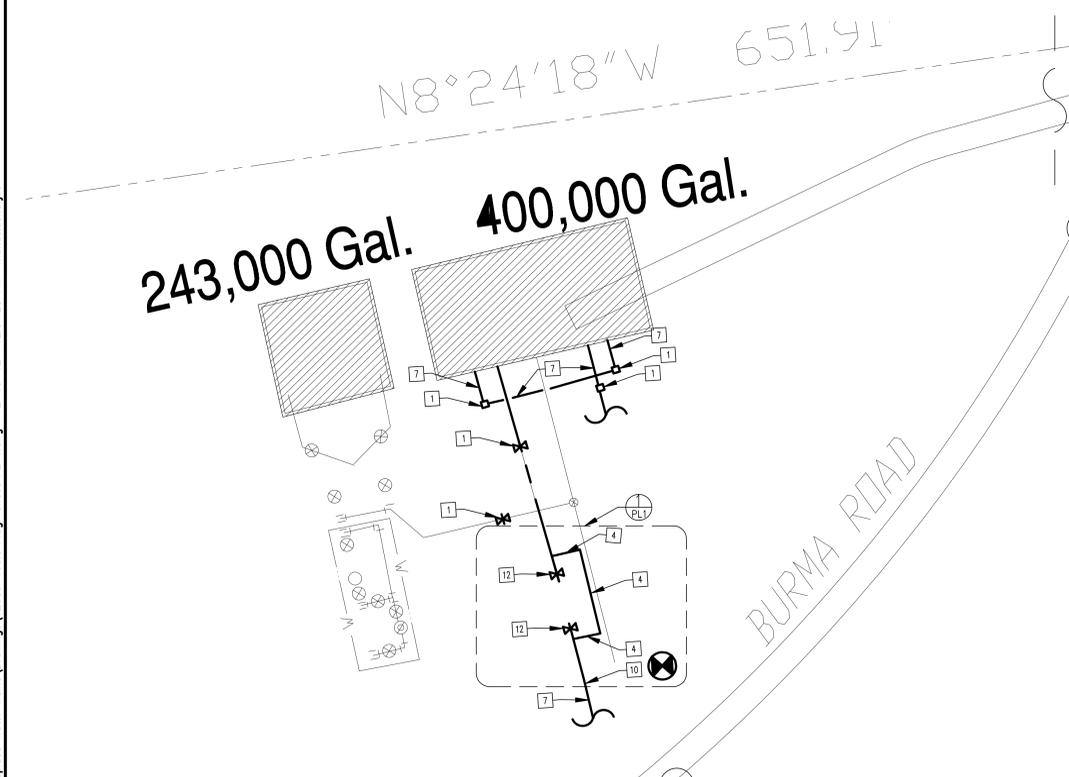
Office of Construction and Facilities Management

Department of Veterans Affairs

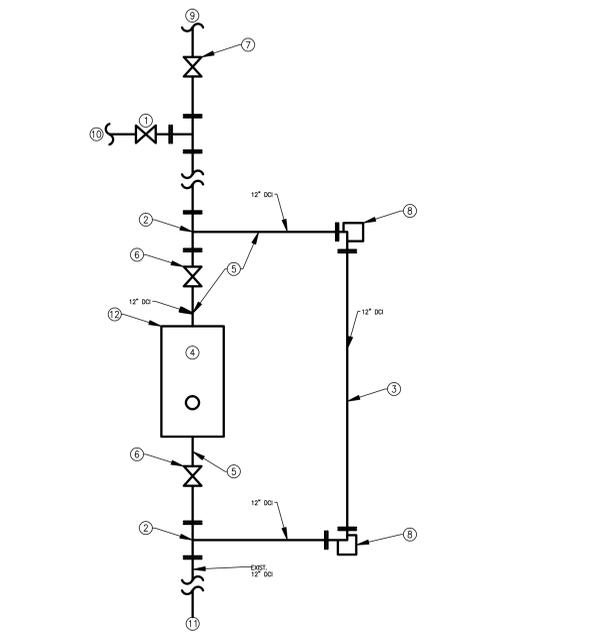
three eighths inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one inch = one foot
 one and one half inches = one foot
 three inches = one foot
 six inches = one foot
 one foot = one foot



PARTIAL SITE PLAN - PLUMBING DEMOLITION
 1/32" = 1 FOOT



PARTIAL SITE PLAN - PLUMBING NEW WORK
 1/32" = 1 FOOT



1. PIPING AND ALTITUDE VALVE DETAIL - DEMO AND NEW WORK
 SCALE: NONE

- DETAIL NOTES**
- REMOVE EXISTING 12" GATE VALVE AND INSTALL NEW IDENTICAL 12" GATE VALVE. CONTRACTOR IS ADVISED THAT THIS LINE IS LIVE, AND THAT THIS SHALL BE A LIVE TAP.
 - TAP EXISTING 12" DCI WATER MAIN. CONTRACTOR IS ADVISED THAT THIS LINE IS LIVE, AND THAT THIS SHALL BE A LIVE TAP.
 - INSTALL NEW 12" DCI PIPE DIVERTED AROUND EXISTING ALTITUDE VALVE PIT. PRIOR TO DISCONNECTING ALTITUDE VALVE, TEST NEW WATER LINE. SUCCESSFULLY COMPLETE TEST PRIOR TO ANY WORK ON EXISTING ALTITUDE VALVE PIT.
 - EXISTING ALTITUDE VALVE PIT SHALL BE ABANDONED-IN-PLACE. CONTRACTOR SHALL REMOVE EXISTING PIT COVER AND MAY SALVAGE ANY INTERNAL COMPONENTS AT HIS OPTION. CONTRACTOR SHALL COMPLETELY FILL EXISTING PIT WITH CONCRETE, TO THE TOP OF THE PIT AND MAN HOLE COVER.
 - DISCONNECT AND ABANDON PIPE BETWEEN NEW 12" GATE VALVE AND EXISTING ALTITUDE VALVE PIT.
 - INSTALL NEW 12" GATE VALVE IN LINE PRIOR TO ABANDONING PIPE.
 - INSTALL NEW 12" GATE VALVE AT THIS LOCATION. CONTRACTOR IS ADVISED THAT THIS LINE IS LIVE, AND THAT THIS SHALL BE A LIVE TAP.
 - PROVIDE NEW THRUST BLOCKS, CALCULATE PER MANUFACTURER'S REQUIREMENTS. SEE SHEET C-102.
 - FROM EXISTING 400,000 GALLON TANK.
 - FROM EXISTING 243,000 GALLON TANK.
 - TO CAMPUS DOMESTIC WATER SYSTEM.
 - EXISTING ALTITUDE VALVE PIT.

SPECIAL NOTE:
 THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, HORIZONTALLY AND VERTICALLY, ALL UTILITIES WITHIN THE PROJECT LIMITS. ANY CONFLICTS WITH THE PROPOSED WORK SHALL BE DOCUMENTED AND FORWARDED TO THE COTR PRIOR TO INSTALLATION. ANY DAMAGE TO THE EXISTING UTILITIES, WHETHER THE UTILITIES ARE SHOWN ON THIS PLAN OR NOT SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

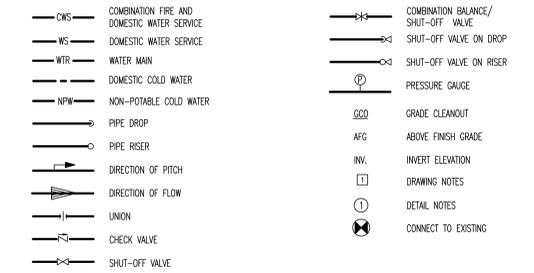
GENERAL NOTES - PLUMBING

- WORK SEQUENCE: INSTALLATION OF GATE VALVES AND NEW 12" DCI PIPE SHALL BE INSTALLED, REVIEWED, AND INSPECTED BY COTR PRIOR TO ABANDONMENT OF EXISTING ALTITUDE VALVE PIT.
- AREA OF WORK NOTES:
 - CONTRACTOR TO CLEAR AND GRUB AREA OF WORK. REMOVE EXISTING TREES, STUMPS, UNDERBRUSH, AND DEBRIS. DISPOSE OF MATTER OFF-SITE.
 - UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REGRADING AREA FOR PROPER DRAINAGE AND REPLACING ANY GRAVEL REMOVED AS A RESULT OF CONSTRUCTION. MATCH EXISTING MATERIALS.
- ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. FAILURE TO ADHERE TO THIS REQUIREMENT MAY REQUIRE THE ENGINEER'S TIME TO REVIEW AND RESOLVE RESULTING ISSUES. CHANGES TO THE DRAWINGS WILL BE BILLED TO THE CONTRACTOR FOR PAYMENT.
- THE PLUMBING CONTRACTOR (PC) SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS OF ALL TRADES PRIOR TO BID. THE PC WILL BE RESPONSIBLE FOR ALL OF THE PLUMBING WORK MENTIONED IN THE OTHER TRADES' DRAWINGS AND SPECIFICATIONS.
- ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS, AND SAFETY REGULATIONS.
- THE DRAWINGS AND SPECIFICATIONS DO NOT SHOW OR SPECIFY EVERY SINGLE COMPONENT MAKING UP A PARTICULAR SYSTEM. IT IS INCUMBENT ON THE EC TO STUDY THE DRAWINGS, OBTAIN CLARIFICATION FROM THE ENGINEER PRIOR TO BID, AND INCLUDE THE COST IN THE BASE BID.
- IF SHUTDOWNS OF THE CAMPUS WATER SYSTEM ARE REQUIRED FOR THE INSTALLATION OF THIS WORK, THE CONTRACTOR SHALL COORDINATE WITH THE VA COTR WITH A MINIMUM 72-HOURS NOTICE.
- EXISTING TANKS, VALVES, AND PITS ARE LOCATED BELOW-GRADE. APPROXIMATE ALTITUDE VALVE PIT EL. 815.

DRAWING NOTES - PLUMBING

- DEMOLISH AND REPLACE ISOLATION / GATE VALVE.
- SENSING LINE. ABANDON IN-PLACE.
- EXISTING ALTITUDE VALVE PIT. SEE DETAIL THIS SHEET.
- NEW 12" PIPE - DUCTILE IRON. TO MATCH PIPING ON EITHER SIDE OF EXISTING ISOLATION VALVES.
- EXISTING TANKS ARE LOCATED IN LOCKED, SECURED AREA. COORDINATE WITH CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR) FOR ACCESS.
- EXISTING UNDERGROUND WATER STORAGE TANK(S).
- PIPING IS EXISTING TO REMAIN.
- PROTECT EXISTING PIPE CULVERT.
- CONNECTION POINT OF SENSING LINE FROM TANK TO ALTITUDE VALVE PIT.
- CONNECTION POINT OF NEW PIPING TO EXISTING 12" CAMPUS MAIN WATER LINE.
- APPROXIMATE AREA OF EXISTING GRAVEL DRIVEWAY.
- NEW ISOLATION / GATE VALVE.

LEGEND - PLUMBING (NOT ALL ARE USED)



EXISTING SITE PHOTOS
 SCALE: NONE

FOR CONSTRUCTION

100% CONSTRUCTION DOCUMENTS	12/20/2012
90% DESIGN DOCUMENTS RE-SUBMITTAL	12/17/2012
35% SCHEMATIC DESIGN SUBMITTAL	09/14/2012
Revisions:	Date

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KLEINGERS & ASSOCIATES

Drawing Title
PLUMBING DEMOLITION AND NEW WORK

Approved Project Director
 -
 -

Project Title
 REPLACE WATER MAINS

Project Number
 538-12-116

Building Number
 N/A

Drawing Number
PL 1

Dwg. 10 of 10

Location
 CHILLICOTHE OH

Date
 12/20/2012

Checked
 PNS

Drawn
 RKS

Office of
 Construction
 and Facilities
 Management

Department of
 Veterans Affairs