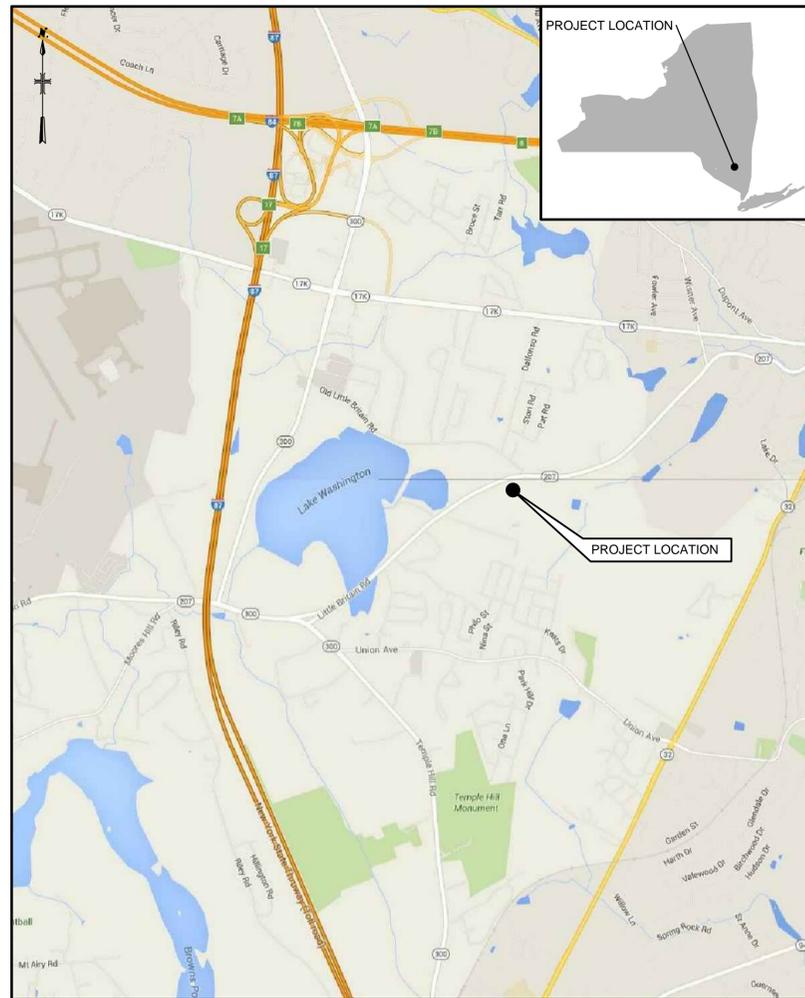




Department of Environmental Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION



PROJECT LOCATION MAP

SOURCE: GOOGLE MAPS

CITY OF NEWBURGH CONTACT TANK AT WASHINGTON LAKE FILTRATION PLANT

SITE NUMBER: 336022
CONTRACT NUMBER: D010238

NEWBURGH, NEW YORK

JULY 2016

CONSULTING ENGINEERS
ARCADIS CE, INC.
855 ROUTE 146
SUITE 210
CLIFTON PARK, NY 12065

INDEX TO DRAWINGS	
SHEET NO.	TITLE
	COVER SHEET
G-01	GENERAL NOTES, SYMBOLS AND LEGEND
C-01	EXISTING SITE PLAN, CLEARING AND LIMITS OF WORK
C-02	INTERIM SITE PLAN
C-03	FINAL SITE PLAN
C-04	PROFILES AND DETAILS
C-05	SITE DETAILS I
C-06	SITE DETAILS II
C-07	SITE DETAILS III
C-08	TANK PLAN AND SECTIONS
C-09	TANK DETAILS I
C-10	TANK DETAILS II
C-11	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
E-1	ELECTRICAL WORK PLAN, LEGEND AND DETAILS

LEGAL ENTITY: ARCADIS CE, INC.



APPROVED FOR _____
ARCADIS CE, INC.

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION LAW, SECTION 7209.2.

GENERAL NOTES:

- MAPPING AND TOPOGRAPHY SHOWN ON THE DRAWINGS ARE BASED ON A SURVEY PERFORMED BY THE CHAZEN COMPANIES, JULY 2016.
- ELEVATIONS SHOWN ON THE DRAWINGS ARE IN FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- PROJECT NORTH ORIENTATION IS BASED ON GPS OBSERVATIONS BY THE CHAZEN COMPANIES TAKEN AT THE TIME OF THE FIELD SURVEY.
- PRIOR TO EXCAVATION, CONTRACTOR SHALL PROVIDE PROPER NOTICE TO ALL UTILITY COMPANIES AFFECTED BY THE WORK IN THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AS REQUIRED AND COORDINATION WITH ALL UTILITY OWNERS. UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE TO THEM.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TEST PIT (AT NO ADDITIONAL COST) TO ASCERTAIN THE EXACT LOCATION/ELEVATION OF ALL UTILITIES AND TO DETERMINE THE LOCATION/ELEVATION OF ANY OTHER UTILITIES NOT SHOWN HEREON PRIOR TO COMMENCING ANY PIPE LAYING OR EXCAVATION OPERATIONS. EXISTING UTILITIES AND VARIED PIPING LOCATIONS AND ELEVATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE INTENDED ONLY TO NOTE EXISTENCE OF SUCH UTILITIES AND PIPING IN THE AREAS SHOWN. BEFORE PROCEEDING WITH THE WORK, VERIFY UTILITY, PIPING LOCATIONS, AND ELEVATIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING UTILITIES OR STRUCTURES DURING CONSTRUCTION. ALL DAMAGE CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY BY THE CONTRACTOR AT NO EXPENSE TO THE DEPARTMENT.
- PROTECT ALL EXISTING UNDERGROUND UTILITIES AND FACILITIES AGAINST DAMAGE FROM HAULING AND CONSTRUCTION OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY SUCH UTILITIES AND FACILITIES. IN NO CASE SHALL THE CONTRACTOR PLACE VEHICLE LOADS EXCEEDING THE LEGAL LOAD LIMIT WITHIN 10 FEET OF THESE UTILITIES AND FACILITIES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SECTION 105-12 OF THE NYS DOT STANDARD SPECIFICATIONS. IF THE CONTRACTOR ELECTS TO PLACE LOADS EXCEEDING THE LEGAL LIMIT ON THESE OR OTHER UNDERGROUND FACILITIES OR UTILITIES, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND ADVISE THE OWNER OF THE TYPE, SIZE AND WEIGHT OF ALL VEHICLES HE INTENDS TO USE OVER THESE FACILITIES DURING CONSTRUCTION TAKING INTO ACCOUNT THE CONDITION OF THE EXISTING FACILITIES. THIS DETERMINATION SHALL BE MADE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK EMPLOYED AND PAID BY THE CONTRACTOR, AND IS TO BE MADE PRIOR TO THE USE OF ANY FACILITIES WITH ALL RESTRICTIONS ENUMERATED BY HIM BEING STRICTLY ADHERED TO. IN THE EVENT THE CONTRACTOR OR ANY SUBCONTRACTORS FAIL TO COMPLY WITH FINDINGS OF THE PROFESSIONAL ENGINEER, THE WORK SHALL BE IMMEDIATELY CEASED UNTIL CORRECTIVE PROCEDURES, SATISFACTORY TO THE PROFESSIONAL ENGINEER AND USACE, ARE EMPLOYED. ALL DAMAGE, DIRECT OR INDIRECT, OF WHATEVER NATURE RESULTING FROM THE PERFORMANCE OF THE WORK OR RESULTING TO THE WORK DURING ITS PROGRESS, FROM WHATEVER CAUSE, SHALL BE BORNE AND SUSTAINED BY THE CONTRACTOR.
- ALL MATERIALS ARE TO BE PROPERLY STORED AND SECURED AWAY FROM TRAFFIC, PEDESTRIANS AND WATER PLANT OPERATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINES, GRADES AND ELEVATIONS.
- CLEAR TREES AND BRUSH FROM WITHIN THE DESIGNATED WORK AREA TO THE EXTENTS SHOWN AND AS NECESSARY TO PERFORM THE WORK.
- THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION WASTE MATERIAL AND BARRICADES FROM ALL AREAS WHEN CONSTRUCTION IS COMPLETED.
- UNLESS OTHERWISE SHOWN CONTRACTOR SHALL RESTORE GROUND SURFACE, DRAINAGE DITCHES AND EMBANKMENTS IMPACTED BY HIS WORK TO ORIGINAL EXISTING GRADE. RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR TO THE ORIGINAL CONDITIONS OR AS INDICATED ON THE CONTRACT DRAWINGS.
- CONTRACTOR SHALL REUSE SURFACE SOIL STOCKPILED ON-SITE, WHERE POSSIBLE TO ESTABLISH A MINIMUM OF 4 INCHES OF TOPSOIL OVER DISTURBED AREAS. CONTRACTOR SHALL SUPPLEMENT ACCEPTABLE ON-SITE SOIL WITH MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES, WHEN QUANTITIES AVAILABLE ON-SITE ARE INSUFFICIENT TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL PROVIDE A SEED MIX AS SPECIFIED.
- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL STATUTES AND U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (O.S.H.A.). COPIES OF O.S.H.A.'S STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. THE CONTRACTOR ALONE WILL BE RESPONSIBLE FOR THE EXECUTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE HEALTH AND SAFETY REQUIREMENTS. THE OWNER NOR THE ENGINEER SHALL INSPECT THE WORK OR METHODS OF CONSTRUCTION FOR COMPLIANCE WITH THESE REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS WHICH ARE REQUIRED PRIOR TO CONSTRUCTION, EXCEPT AS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- ALL WORK SHALL BE COORDINATED WITH THE CITY'S OPERATIONS SO AS NOT TO CREATE A DISRUPTION IN THE OPERATION OF THE EXISTING WATER TREATMENT FACILITY OR A DISRUPTION THAT WOULD CONTRAVENE THE WATER QUALITY STANDARDS. REFER TO PROJECT COORDINATION WITH CITY'S OPERATIONS SPECIFICATIONS FOR ADDITIONAL COORDINATION NOTIFICATIONS AND SHUT-DOWN REQUIREMENTS.
- SCALES SHOWN HEREIN ARE FOR FULL SIZE PLOTS ON 22x34 INCH SHEETS. THE CONTRACTOR IS RESPONSIBLE FOR CONVERTING SCALES ON REDUCED OR ENLARGED PLOTS.
- SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE STANDARD AND MAY NOT BE UTILIZED WITHIN THESE CONTRACT DRAWINGS FOR THE WORK DEPICTED.
- FOR DUCTILE IRON PIPE, PROVIDE FULLY RESTRAINED JOINTS AT ALL LOCATIONS.

OPERATION, CONSTRAINTS AND CONTRACTOR'S RESPONSIBILITIES DURING CONSTRUCTION:

- THE WASHINGTON LAKE FILTRATION PLANT WILL BE MAINTAINED IN CONTINUOUS OPERATION DURING THE ENTIRE CONSTRUCTION PERIOD.
- WORK UNDER THIS CONTRACT SHALL BE CONDUCTED BY THE CONTRACTOR SO AS NOT TO IMPEDE OPERATION OF THE TREATMENT FACILITY EXCEPT AS EXPLICITLY PERMITTED IN PERFORMING THE WORK SHOWN AND SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING TEMPORARY POWER AS NECESSARY FOR ALL PROPOSED WORK.
- THE CONTRACTOR SHALL SCHEDULE ALL WORK SO THAT THE TREATMENT FACILITY AND ALL APPURTENANCES, ARE MAINTAINED IN CONTINUOUS OPERATION.
- ANY TEMPORARY WORK, FACILITIES, ROAD OR ACCESS THEREOF, WALKS, PROTECTION OF EXISTING STRUCTURES, ETC. THAT MAY BE REQUIRED WITHIN THE CONTRACTOR'S WORK LIMITS TO MAINTAIN CONTINUOUS AND DEPENDABLE TREATMENT FACILITY OPERATION SHALL BE FURNISHED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER.
- THE DEPARTMENT AND ENGINEER SHALL HAVE THE AUTHORITY TO ORDER WORK STOPPED OR PROHIBITED THAT WOULD, IN ITS OPINION, UNREASONABLY RESULT IN INTERRUPTING THE NECESSARY FUNCTIONS OF THE TREATMENT FACILITY, INCLUDING THE WATER MAIN SERVICE.
- ACCESS TO ROADWAYS AND PARKING AREAS.
 - AN UNOBSTRUCTED TRAFFIC ROUTE ON THE CITY PROPERTY SHALL BE MAINTAINED AT ALL TIME FOR CITY WATER TREATMENT PLANT OPERATIONS PERSONNEL AND MAINTENANCE EQUIPMENT, PARKING FOR PERSONAL VEHICLES OF CONSTRUCTION PERSONNEL WILL BE ALLOWED AS APPROVED BY DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND MAINTAINING PARKING AREAS.
 - VEHICULAR ACCESS TO THE WATER TREATMENT PLANT FACILITIES FOR CITY PERSONNEL SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
- CITY PERSONNEL SHALL HAVE ACCESS TO ALL AREAS THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL LOCATE STORED MATERIAL, DISPOSE OF CONSTRUCTION DEBRIS AND TRASH, PROVIDE TEMPORARY WALKWAYS, PROVIDE TEMPORARY POWER, AND OTHER SUCH WORK AS DIRECTED BY THE ENGINEER TO MAINTAIN PERSONNEL ACCESS TO AREAS IN OPERATION.

ABBREVIATIONS

SITE WORK

- ASPH - ASPHALT
- BIT. - BITUMINOUS
- BL - BASELINE
- CB - CATCH BASIN
- CL - CENTER LINE
- CL - CHAIN LINK
- CONC. - CONCRETE
- Deg - DEGREES
- DIA - DIAMETER
- DR - DRAIN LINE
- E - ELECTRIC
- EL - ELEVATION
- EMH - ELECTRICAL MANHOLE
- EP - EDGE OF PAVEMENT
- FIN. FLR - FINISHED FLOOR
- FLR - FLOOR
- G - GAS
- HH - HANDHOLE
- HP - HIGH POINT
- HYD. - HYDRANT
- I.D. - INSIDE DIAMETER
- INV - INVERT
- KVE - ELECTRIC CABLE
- LP - LOW POINT
- MH - MANHOLE
- NTS - NOT TO SCALE
- O.C. - ON CENTER
- O.D. - OUTSIDE DIAMETER
- PRESS. - PRESSURE
- PL - PROPERTY LINE
- PVMT - PAVEMENT
- R - RADIUS
- S - STORM DRAIN
- ST - STORM
- STA. - STATION
- SW - SIDEWALK
- TEMP. - TEMPORARY
- TOS - TOP OF SLAB
- TYP. - TYPICAL
- W - WATER
- WS - WATER STOP
- WSE - WATER SURFACE ELEVATION

PIPE AND FITTINGS

- BF - BLIND FLANGE
- BW - BUTT WELDED
- BZ - BRAZED
- C - COMPRESSION/ COPPER
- CI - CAST IRON
- DIP - DUCTILE IRON PIPE
- ELL - ELBOW
- FLG - FLANGED
- LR - LONG RADIUS
- MJ - MECHANICAL JOINT
- PE - PLAIN END
- PVC - POLYVINYL CHLORIDE
- SS - STAINLESS STEEL

VALVES

- BV - BALL VALVE
- CV - CHECK VALVE
- GV - GATE VALVE
- NC - NORMALLY CLOSED
- PV - PLUG VALVE

PROCESS PIPING

- W - WATER
- DR - DRAIN
- ST - STORM SEWER
- CS - COMBINED SEWER

SHEET IDENTIFICATION

- G - GENERAL
- C - CIVIL
- E - ELECTRICAL

LEGEND

- BOLLARD
- POST
- IRON ROD FOUND
- WATER MANHOLE
- GUY WIRE
- UTILITY POLE
- HYDRANT
- VALVE
- STORM MANHOLE
- UTILITY MANHOLE
- GATE POST
- STREET LIGHT
- SIGN
- CATCH BASIN
- PROPERTY CORNER MARKER
- TREE
- SPOT ELEVATION
- TOPOGRAPHIC CONTOUR
- TREE LINE
- OVERHEAD WIRES
- UNDERGROUND GAS LINE
- UNDERGROUND TELECOMMUNICATIONS
- UNDERGROUND ELECTRIC
- STORM SEWER
- COMBINED SEWER
- WATER LINE
- FENCE
- PROPERTY LINE
- MUNICIPAL BOUNDARY

PIPING SYMBOLS

- EXISTING FACILITIES OR WORK INCLUDED IN OTHER CONTRACTS
- FUTURE WORK
- WORK INCLUDED UNDER THIS CONTRACT
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- CHECK VALVE
- BALL VALVE
- BUTTERFLY VALVE
- FLANGED JOINT (FLG)
- MECHANICAL JOINT (MJ)
- FLOW ARROW
- FLEXIBLE COUPLING
- HARNESSED FLEXIBLE COUPLING
- FLANGE ADAPTER
- HARNESSED FLANGE ADAPTER



SECTION AND DETAIL KEY



LEGAL ENTITY:
ARCADIS CE, INC.

CONSULTANTS



CITY OF NEWBURGH

**CONTACT TANK AT
WASHINGTON LAKE
FILTRATION PLANT**

NO.	DATE	ISSUED FOR	BY

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2016

DATE: JULY 2016
PROJECT NO.: 00266443.0000
FILE NAME: 0266443-G01
DESIGNED BY: M. KOSIER
DRAWN BY: S. HAUSMANN
CHECKED BY: R. OSTAPCZUK

SHEET TITLE

GENERAL

**GENERAL NOTES,
SYMBOLS AND LEGEND**

SCALE: AS SHOWN

G-01
SHEET 1 OF 13

**CITY OF NEWBURGH
CONTACT TANK AT
WASHINGTON LAKE
FILTRATION PLANT**

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DATE: JULY 2016
PROJECT NO.: 00266443-0000
FILE NAME: 0266443-C01
DESIGNED BY: M. KOSIER
DRAWN BY: S. HAUSMANN
CHECKED BY: R. OSTAPCZUK

SHEET TITLE

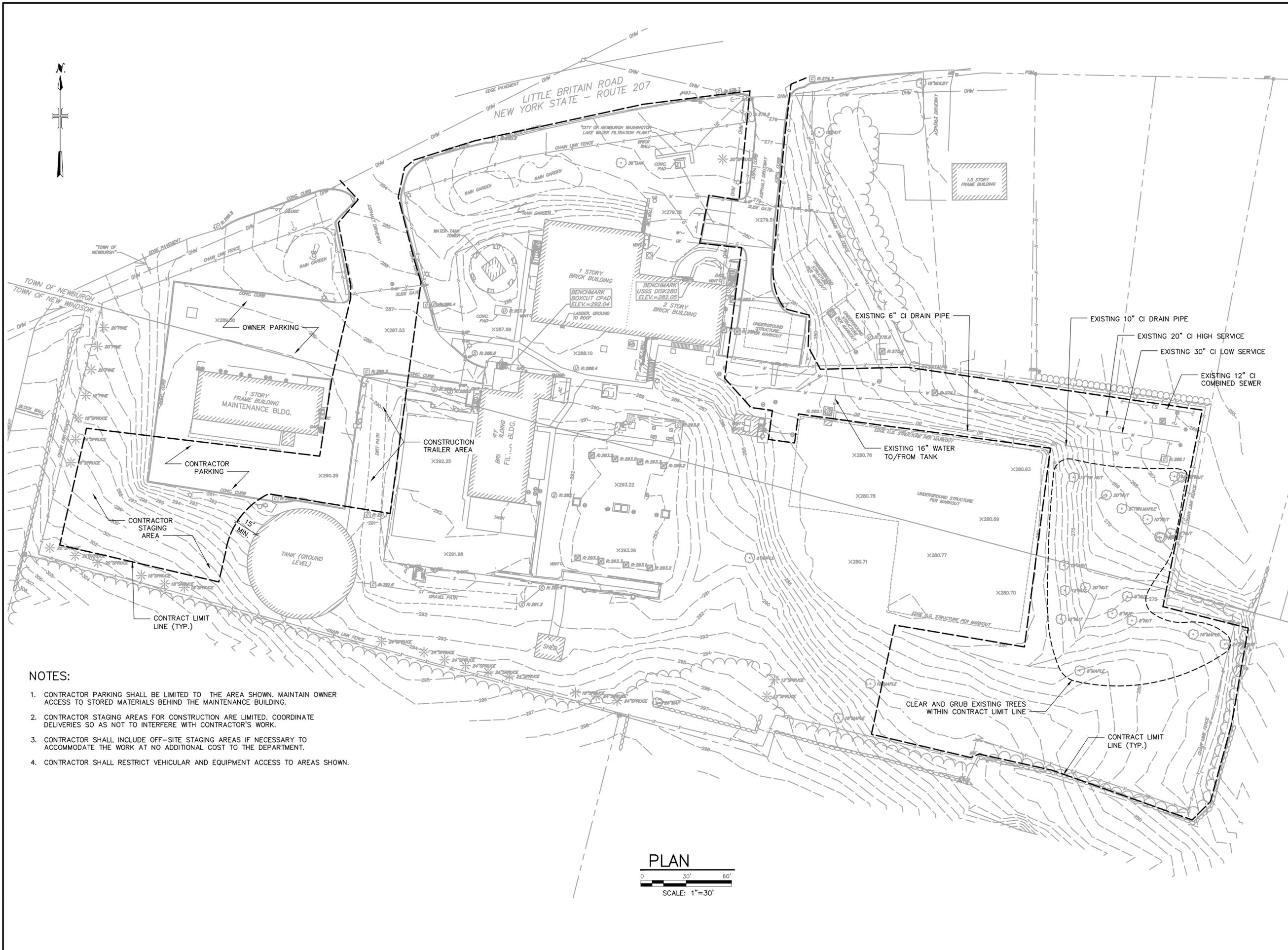
CIVIL

**EXISTING
SITE PLAN AND
LIMITS OF WORK**

SCALE: AS SHOWN

C-01

SHEET 2 OF 13



PLAN
0 30' 60'
SCALE: 1"=30'

- NOTES:**
1. CONTRACTOR PARKING SHALL BE LIMITED TO THE AREA SHOWN. MAINTAIN OWNER ACCESS TO STORED MATERIALS BEHIND THE MAINTENANCE BUILDING.
 2. CONTRACTOR STAGING AREAS FOR CONSTRUCTION ARE LIMITED. COORDINATE DELIVERIES SO AS NOT TO INTERFERE WITH CONTRACTOR'S WORK.
 3. CONTRACTOR SHALL INCLUDE OFF-SITE STAGING AREAS IF NECESSARY TO ACCOMMODATE THE WORK AT NO ADDITIONAL COST TO THE DEPARTMENT.
 4. CONTRACTOR SHALL RESTRICT VEHICULAR AND EQUIPMENT ACCESS TO AREAS SHOWN.

User: HAUSMANN Spec: AUS-NC5MOD File G:\ACAD\PROJ\00266443-0000\CONTACT TANK\SHEETS\0266443-C01.DWG Scale: 1:1 SaveDate: 7/25/2016 Time: 13:44 Plot Date: Hausmann, Steve: 7/26/2016: 09:43 : Layout: C-01

**CITY OF NEWBURGH
CONTACT TANK AT WASHINGTON LAKE
FILTRATION PLANT**

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PROJECT NO.: 00266443.0000
FILE NAME: 0266443-C02
DESIGNED BY: M. KOSIER
DRAWN BY: S. HAUSMANN
CHECKED BY: R. OSTAPCZUK

SHEET TITLE

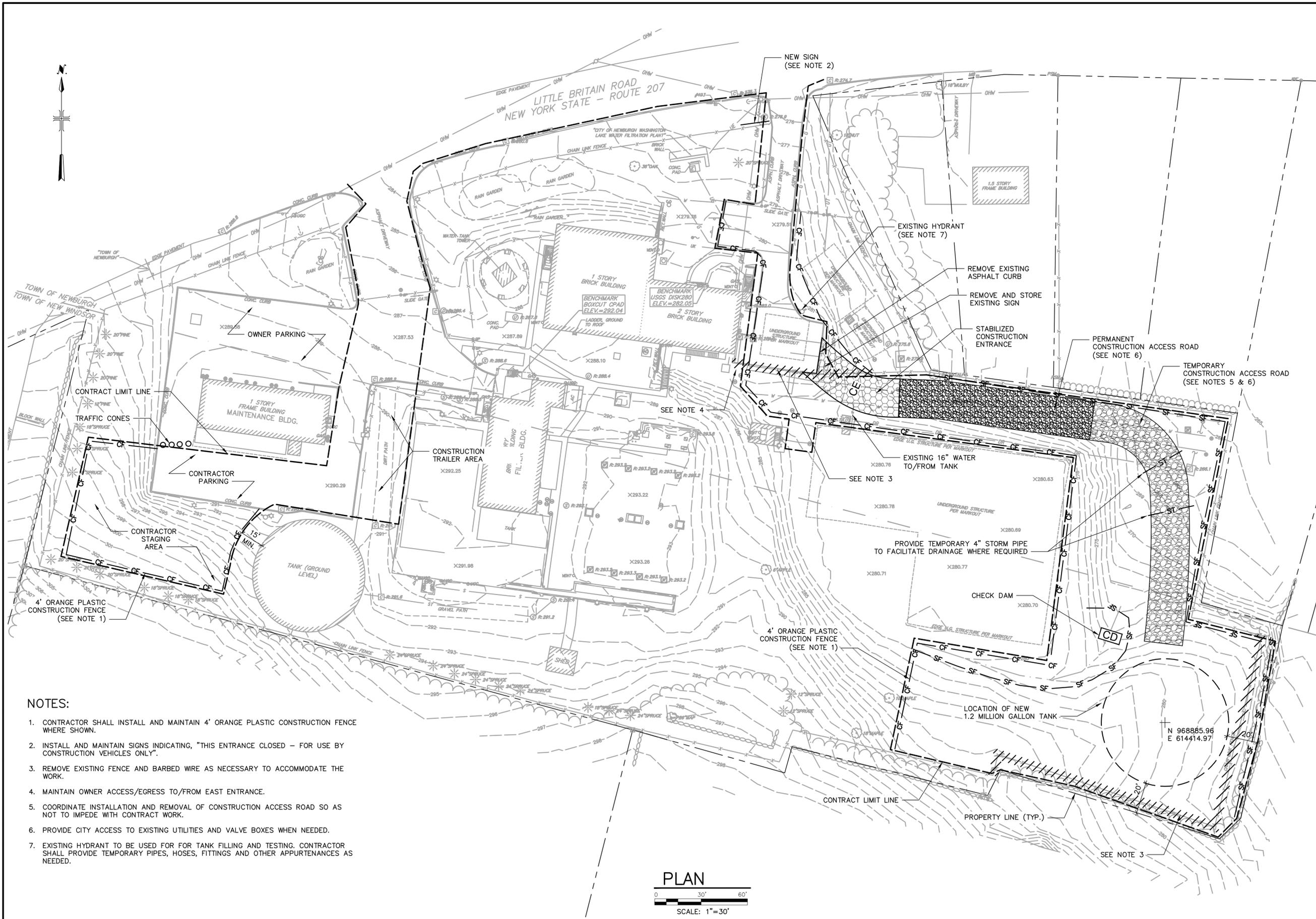
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**INTERIM
SITE PLAN**

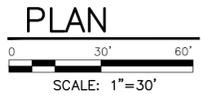
SCALE: AS SHOWN

C-02

SHEET 3 OF 13



- NOTES:**
- CONTRACTOR SHALL INSTALL AND MAINTAIN 4' ORANGE PLASTIC CONSTRUCTION FENCE WHERE SHOWN.
 - INSTALL AND MAINTAIN SIGNS INDICATING, "THIS ENTRANCE CLOSED - FOR USE BY CONSTRUCTION VEHICLES ONLY".
 - REMOVE EXISTING FENCE AND BARBED WIRE AS NECESSARY TO ACCOMMODATE THE WORK.
 - MAINTAIN OWNER ACCESS/EGRESS TO/EAST ENTRANCE.
 - COORDINATE INSTALLATION AND REMOVAL OF CONSTRUCTION ACCESS ROAD SO AS NOT TO IMPEDE WITH CONTRACT WORK.
 - PROVIDE CITY ACCESS TO EXISTING UTILITIES AND VALVE BOXES WHEN NEEDED.
 - EXISTING HYDRANT TO BE USED FOR FOR TANK FILLING AND TESTING. CONTRACTOR SHALL PROVIDE TEMPORARY PIPES, HOSES, FITTINGS AND OTHER APPURTENANCES AS NEEDED.



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**CITY OF NEWBURGH
CONTACT TANK AT WASHINGTON LAKE
FILTRATION PLANT**

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PROJECT NO.: 00266443.0000
FILE NAME: 0266443-C03
DESIGNED BY: M. KOSIER
DRAWN BY: S. HAUSMANN
CHECKED BY: R. OSTAPCZUK

SHEET TITLE

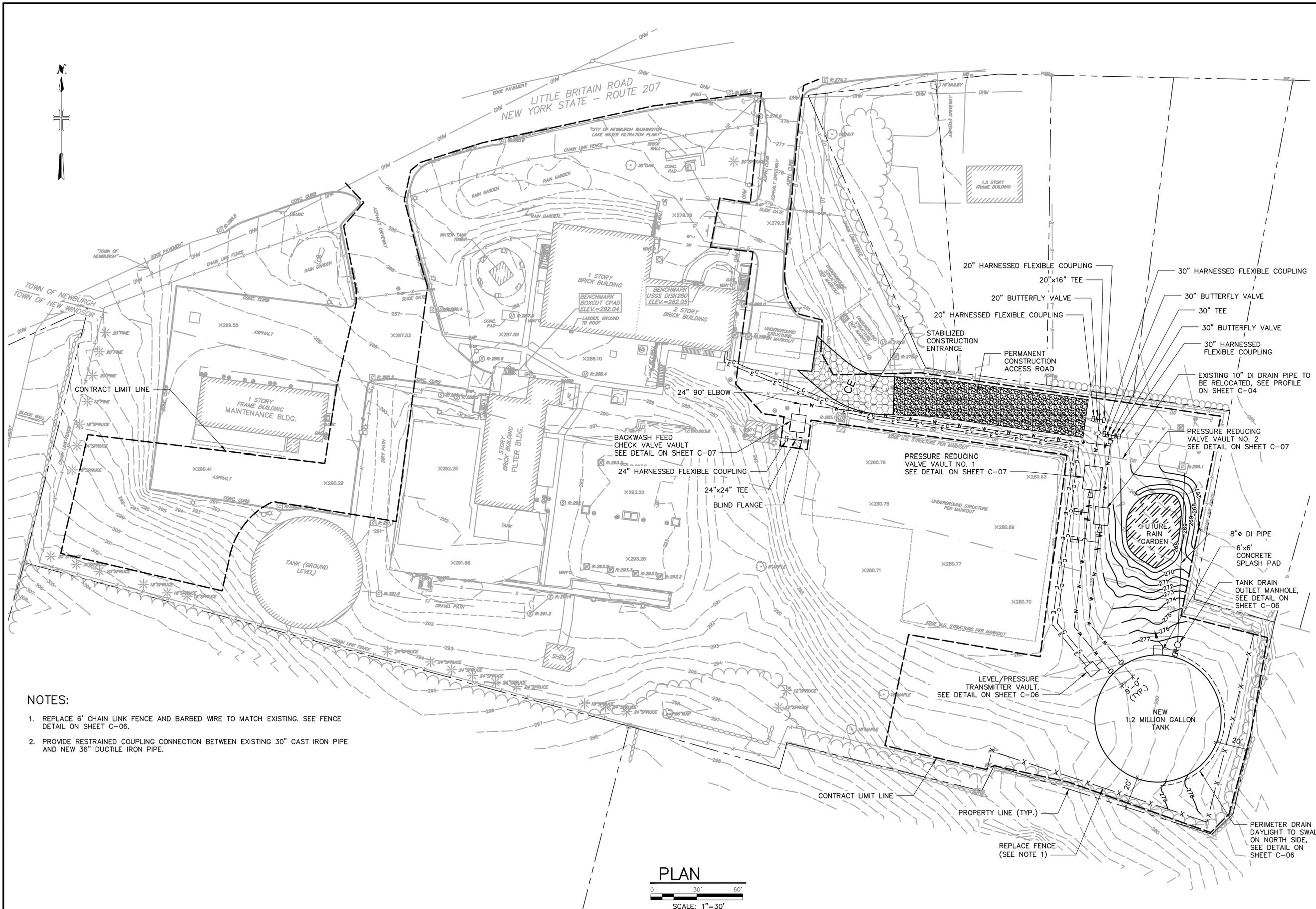
CIVIL

**FINAL
SITE PLAN**

SCALE: AS SHOWN

C-03

SHEET 4 OF 13



- NOTES:**
- REPLACE 6' CHAIN LINK FENCE AND BARBED WIRE TO MATCH EXISTING. SEE FENCE DETAIL ON SHEET C-06.
 - PROVIDE RESTRAINED COUPLING CONNECTION BETWEEN EXISTING 30" CAST IRON PIPE AND NEW 36" DUCTILE IRON PIPE.

PLAN
0 30' 60'
SCALE: 1"=30'

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PROJECT NO.: 00266443.0000
FILE NAME: 0266443-C04
DESIGNED BY: M. KOSIER
DRAWN BY: S. HAUSMANN
CHECKED BY: R. OSTAPCZUK

SHEET TITLE

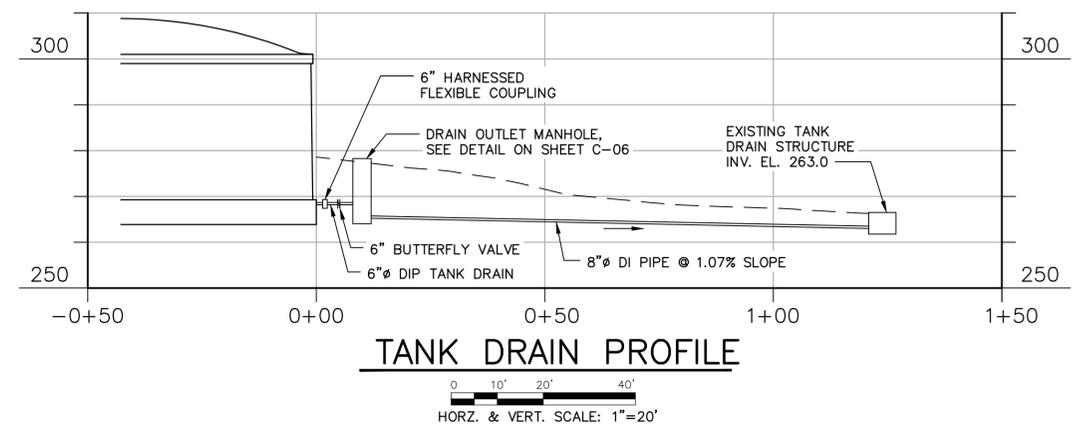
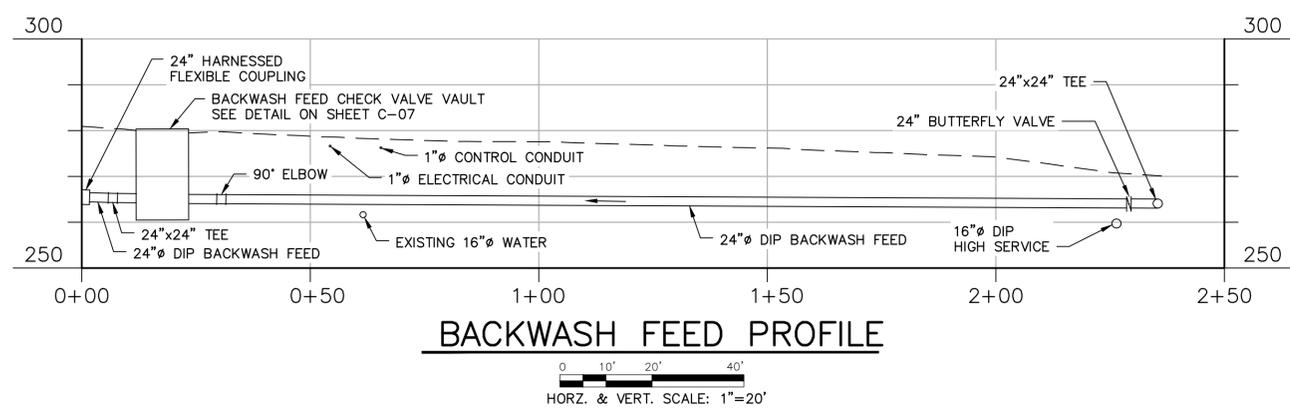
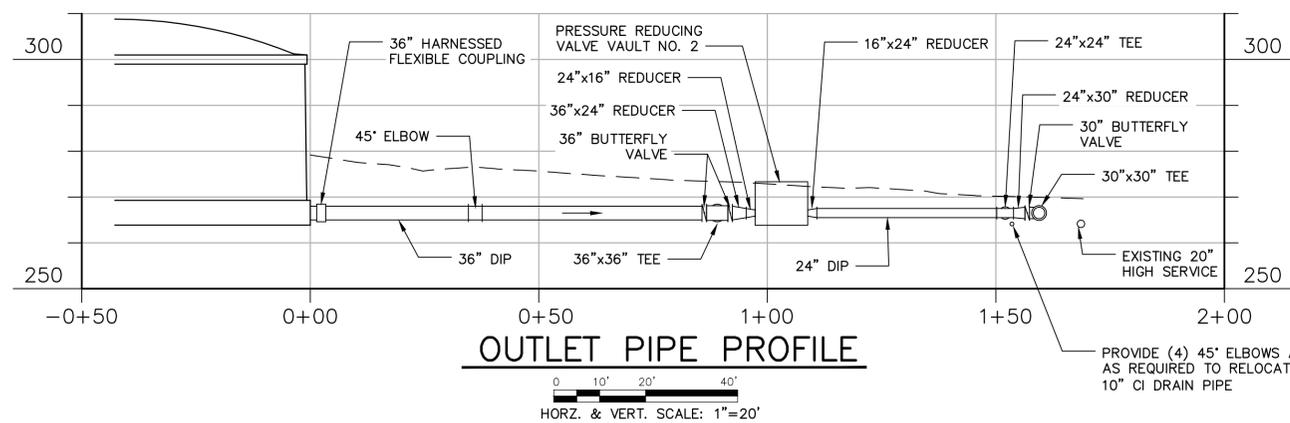
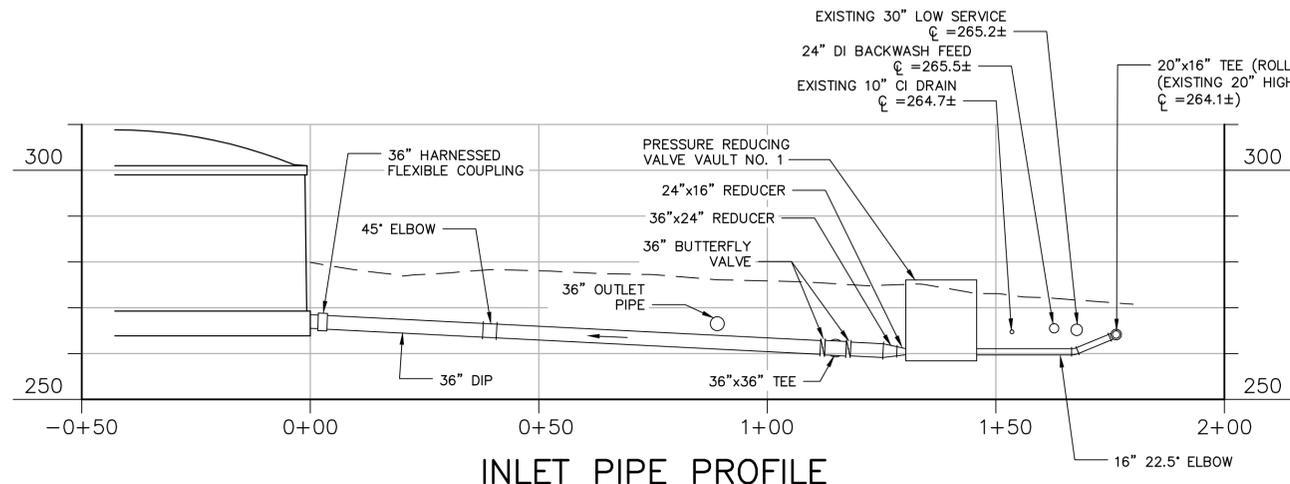
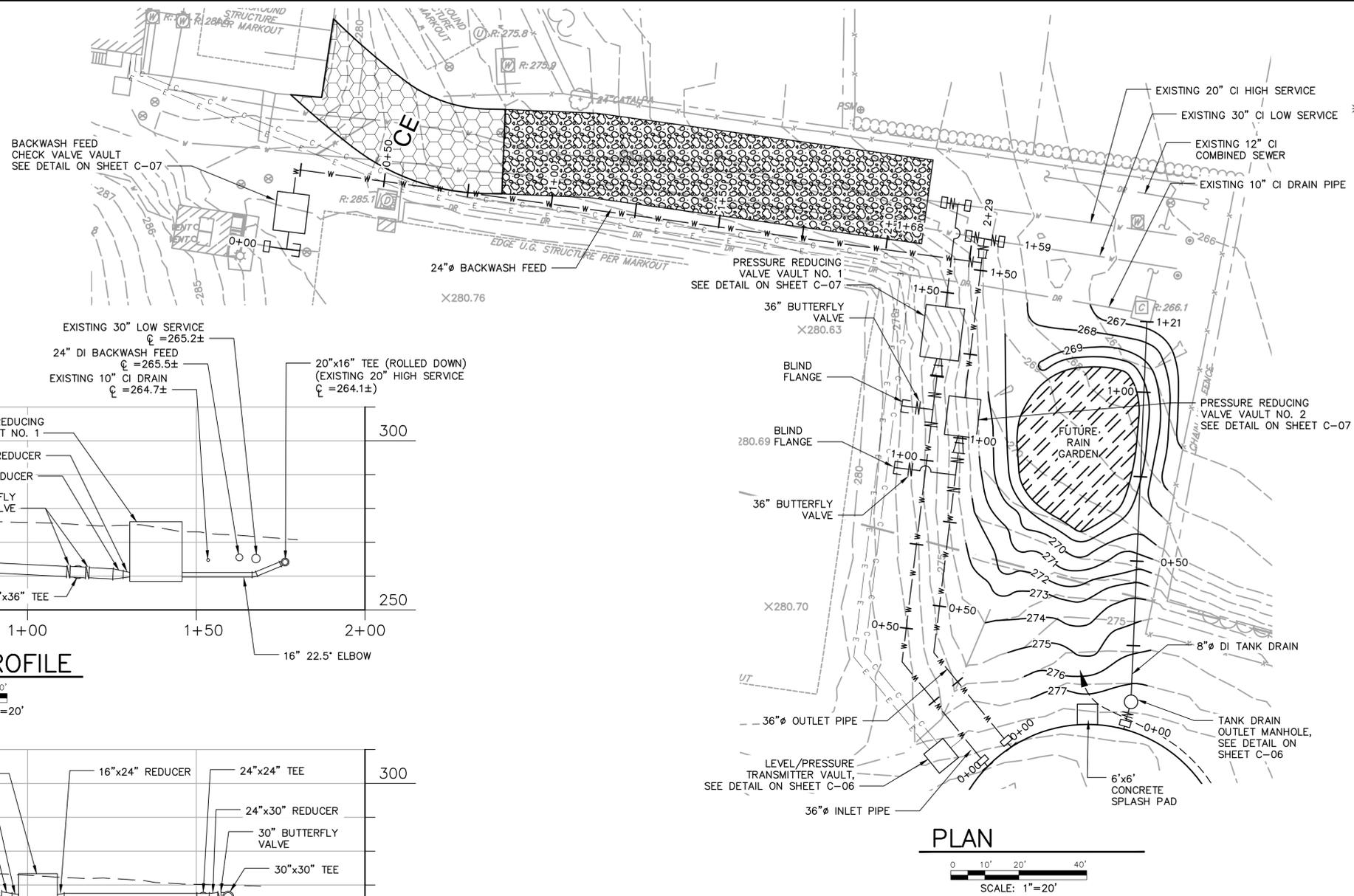
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**PROFILES
AND DETAILS**

SCALE: AS SHOWN

C-04

SHEET 5 OF 13



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FILE NAME: 0266443-C05
DESIGNED BY: M. KOSIER
DRAWN BY: S. HAUSMANN
CHECKED BY: R. OSTAPCZUK

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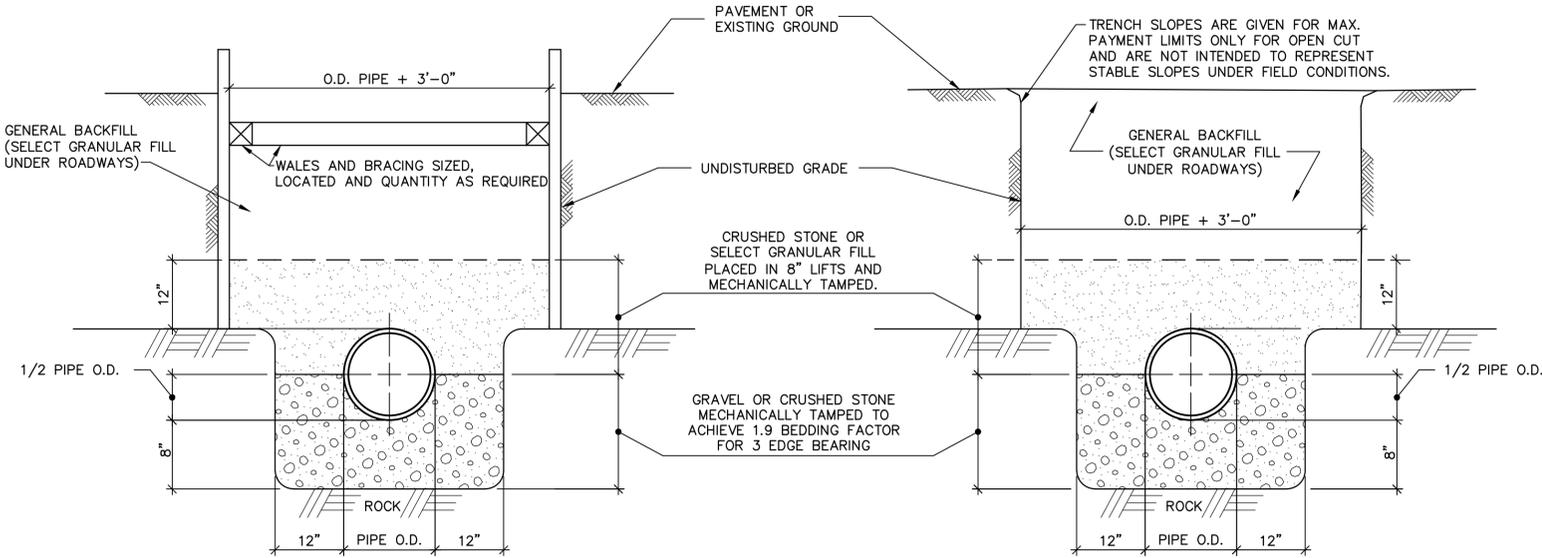
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SITE DETAILS I

SCALE: AS SHOWN

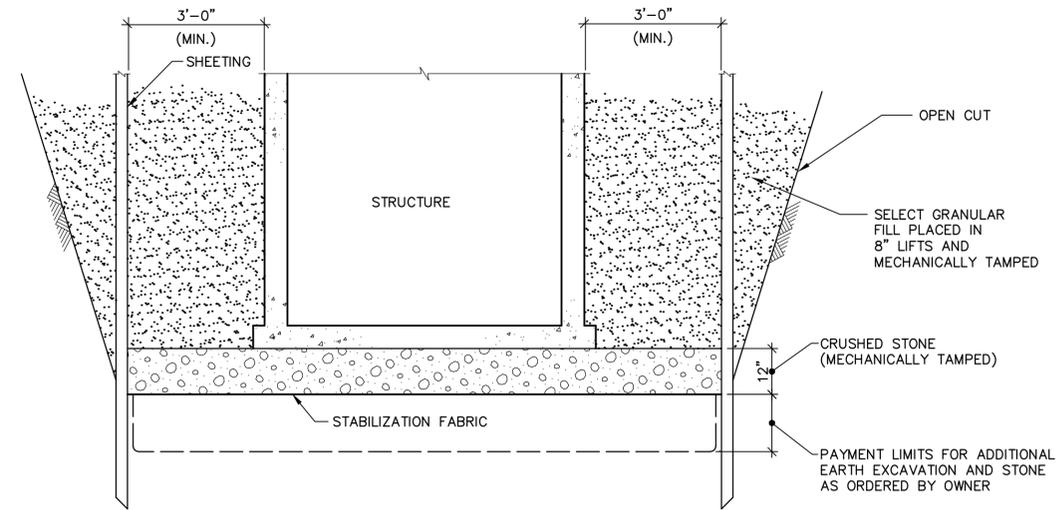
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SHEET 6 OF 13



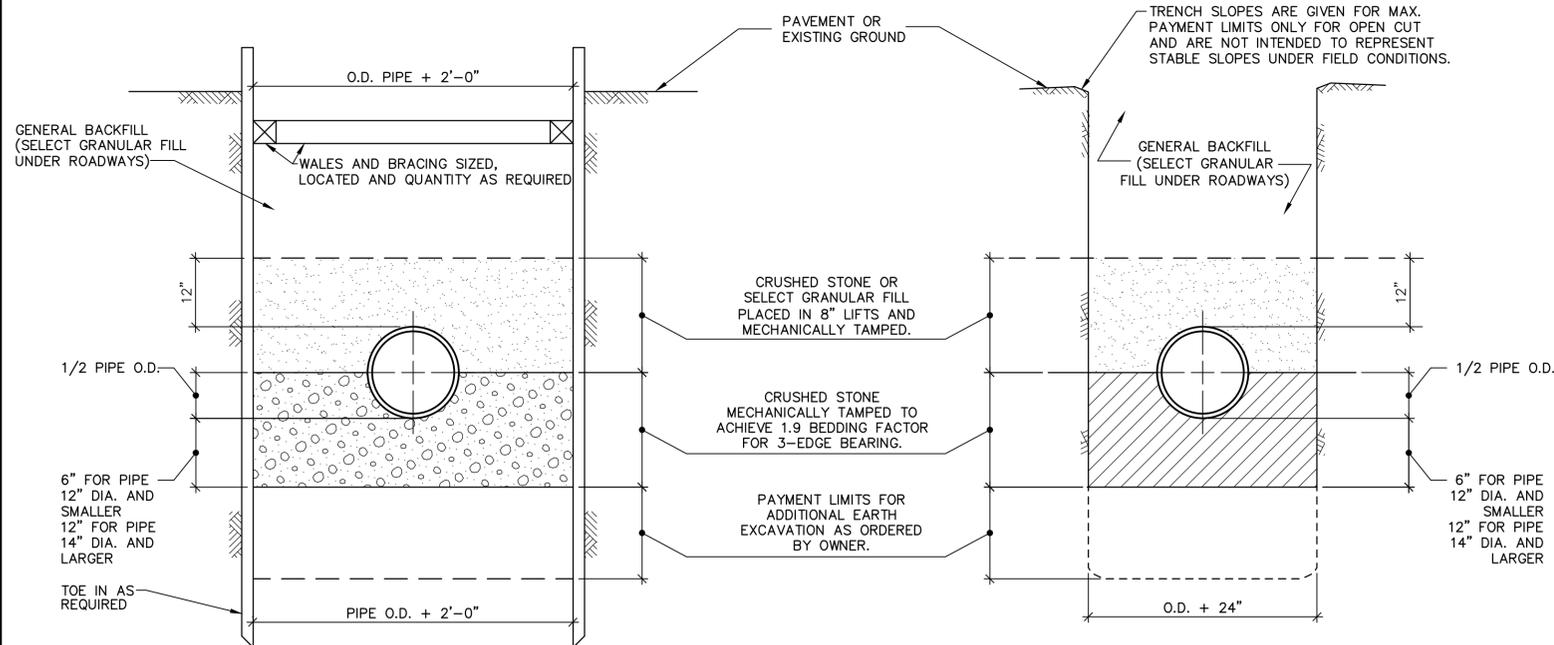
SHEETED TRENCH IN ROCK

OPEN CUT IN ROCK



PRECAST STRUCTURES ON EARTH FOUNDATION IN SHEETED OR OPEN CUT EXCAVATION

NOT TO SCALE

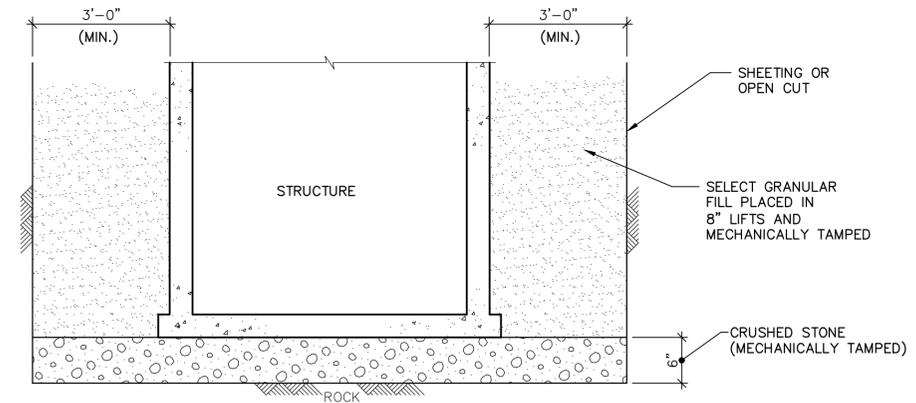


SHEETED TRENCH

OPEN CUT

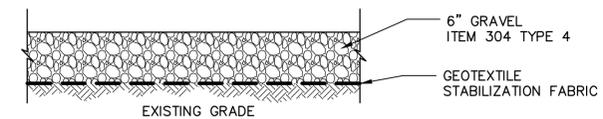
TRENCH DETAILS

NOT TO SCALE



PRECAST STRUCTURES ON ROCK FOUNDATION

NOT TO SCALE



PERMANENT AND TEMPORARY ACCESS ROAD DETAIL

NOT TO SCALE

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DATE: JULY 2016
PROJECT NO.: 00266443.0000
FILE NAME: 0266443-C06
DESIGNED BY: M. KOSIER
DRAWN BY: S. HAUSMANN
CHECKED BY: R. OSTAPCZUK

SHEET TITLE

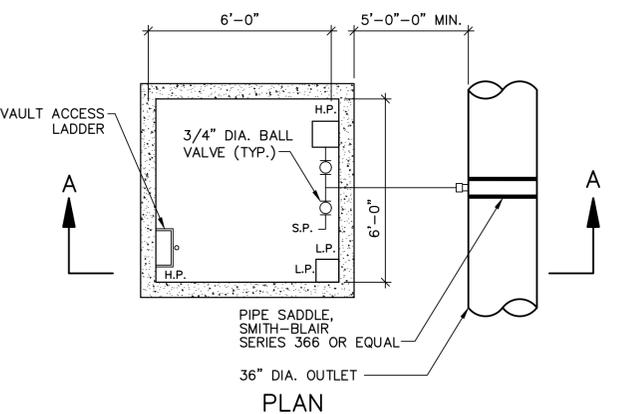
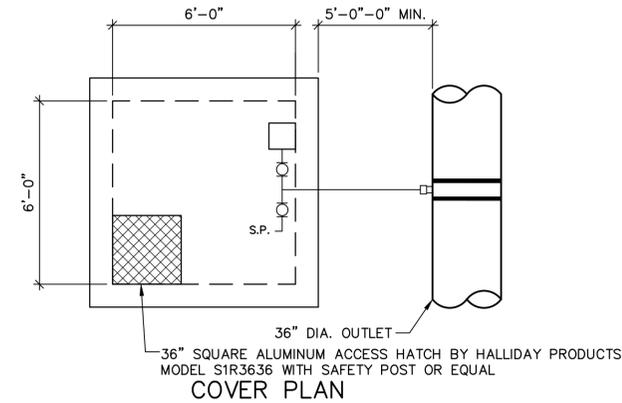
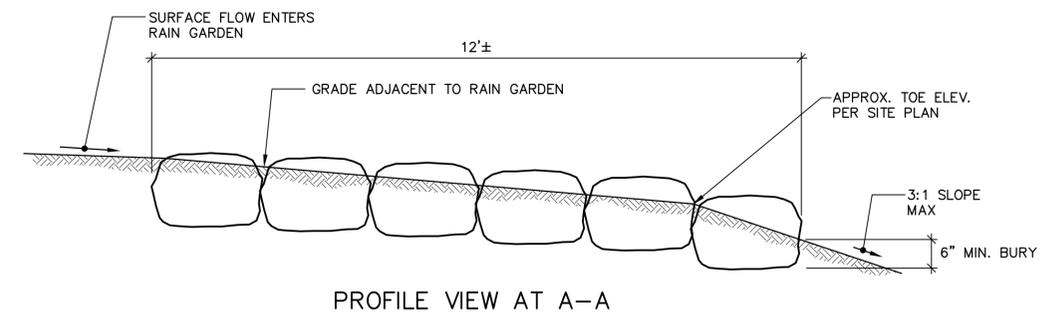
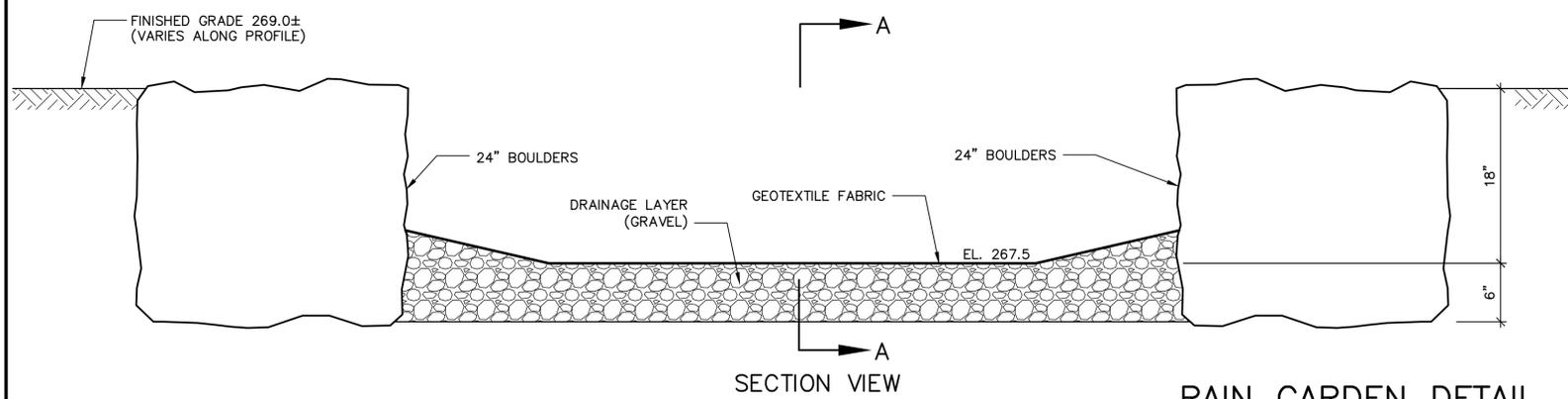
CIVIL

SITE DETAILS II

SCALE: AS SHOWN

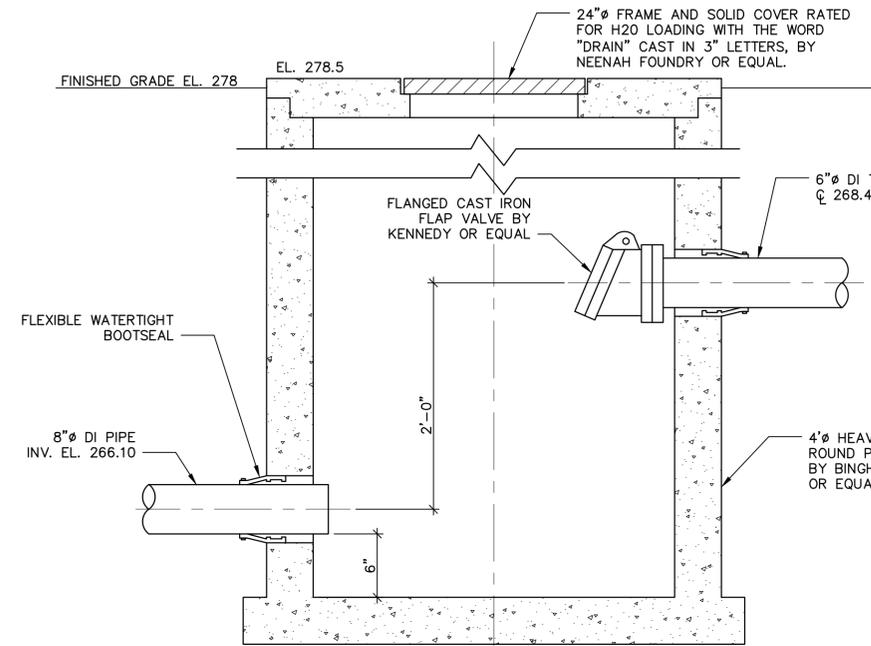
C-06

SHEET 7 OF 13



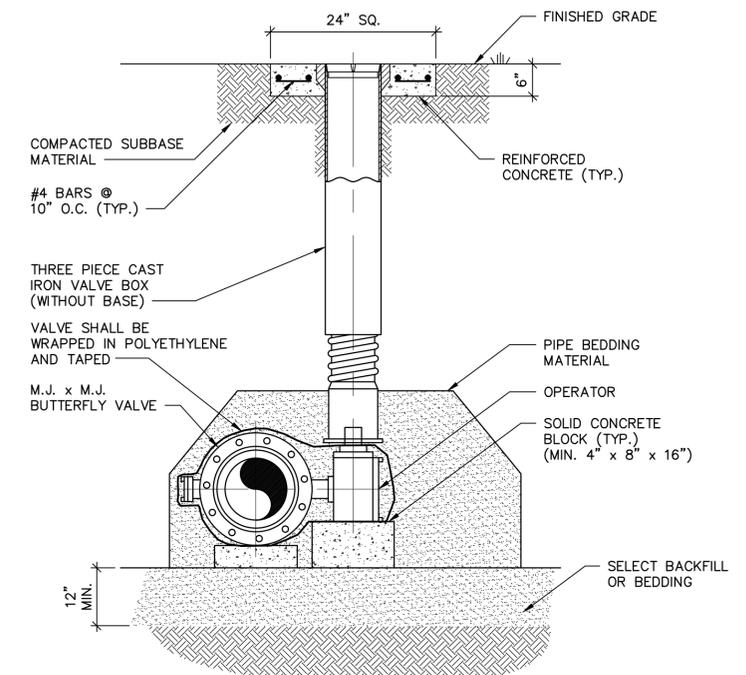
RAIN GARDEN DETAIL

NOT TO SCALE



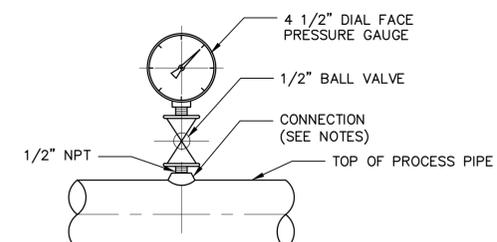
DRAIN OUTLET MANHOLE DETAIL

NOT TO SCALE



BURIED BUTTERFLY VALVE DETAIL

NOT TO SCALE

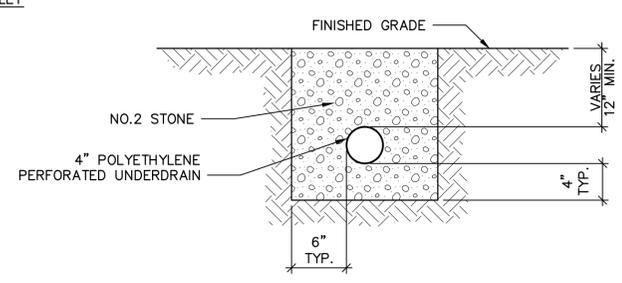


NOTES:

- FOR DI ALL SIZES, USE PIPE SADDLE W/BUSHING.
- ALL GAUGE PIPING SHALL BE SCH. 40 SS

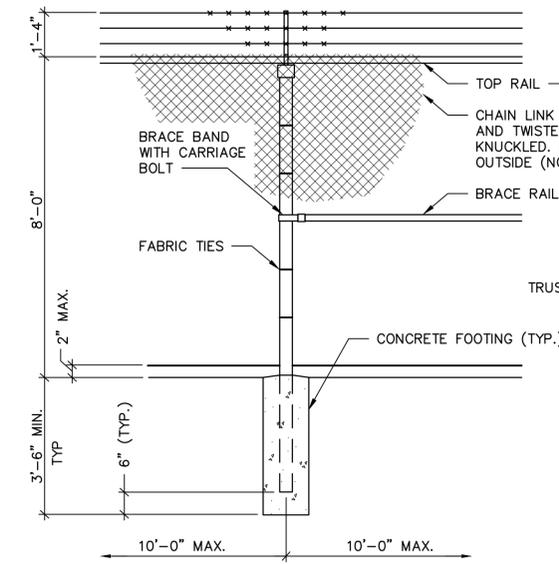
PRESSURE GAUGE DETAIL

NOT TO SCALE



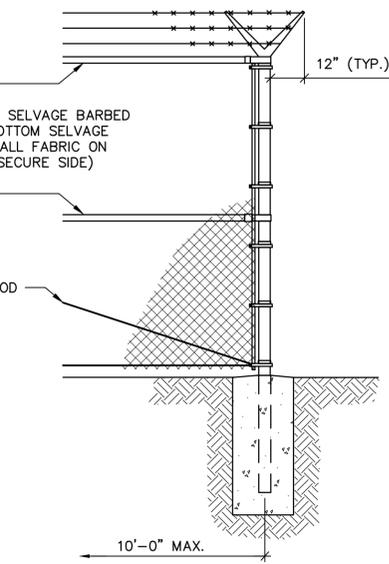
PERIMETER DRAIN DETAIL

NOT TO SCALE



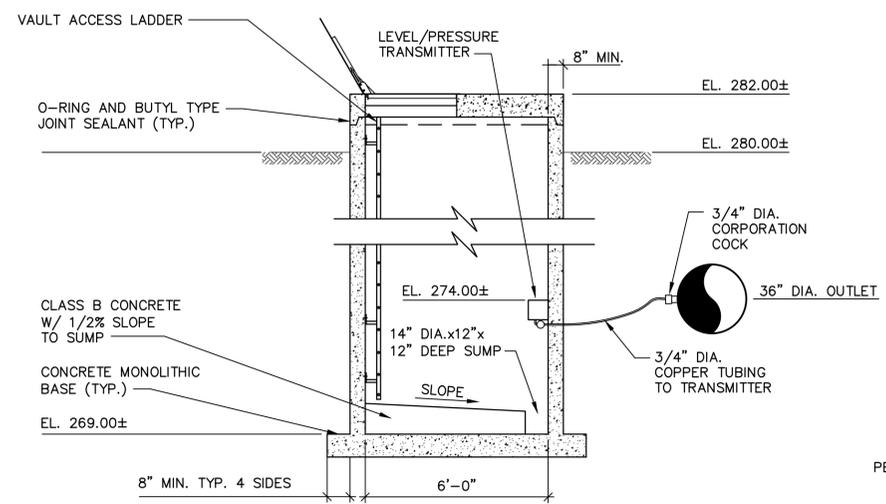
HIGH SECURITY FENCE TYPICAL LINE POST DETAIL

NOT TO SCALE



HIGH SECURITY FENCE TYPICAL END POST DETAIL

NOT TO SCALE



SECTION A-A

LEVEL/PRESSURE TRANSMITTER VAULT DETAIL

NOT TO SCALE

User: JAU/AM/AN Spec: AUS-NC/SMOD File: G:\ACAD\PROJ\00266443\0000\CONTACT TANK\SHREETS\0266443-C06.DWG Scale: 1:1 SaveDate: 7/25/2016 Time: 15:50 Plot Date: Hausmann, Steve; 7/26/2016; 09:44 ; Layout: C-06

NO.	DATE	ISSUED FOR	BY

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DATE: JULY 2016
PROJECT NO.: 00266443.0000
FILE NAME: 0266443-C09
DESIGNED BY: M. KOSIER
DRAWN BY: S. HAUSMANN
CHECKED BY: R. OSTAPCZUK

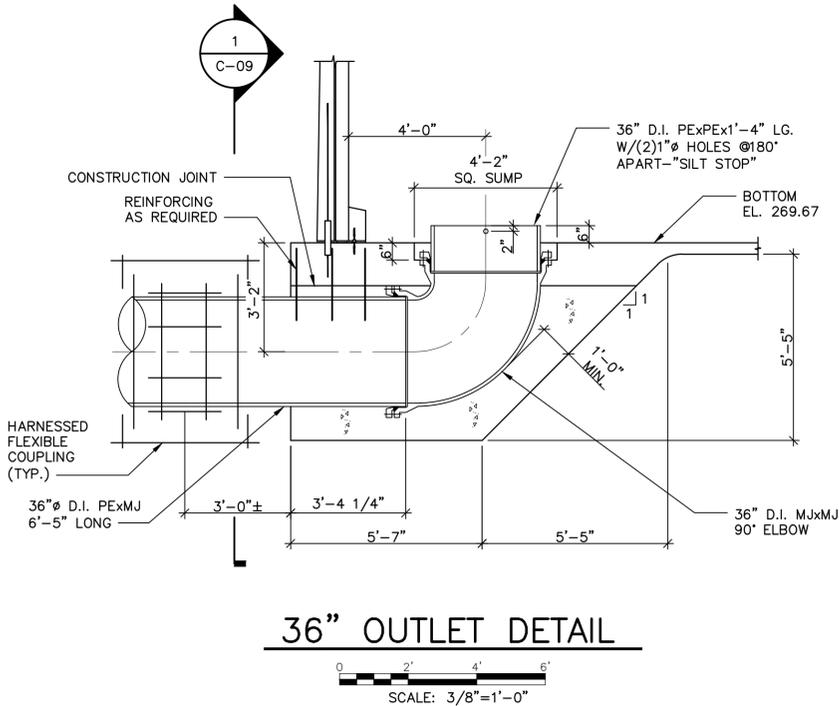
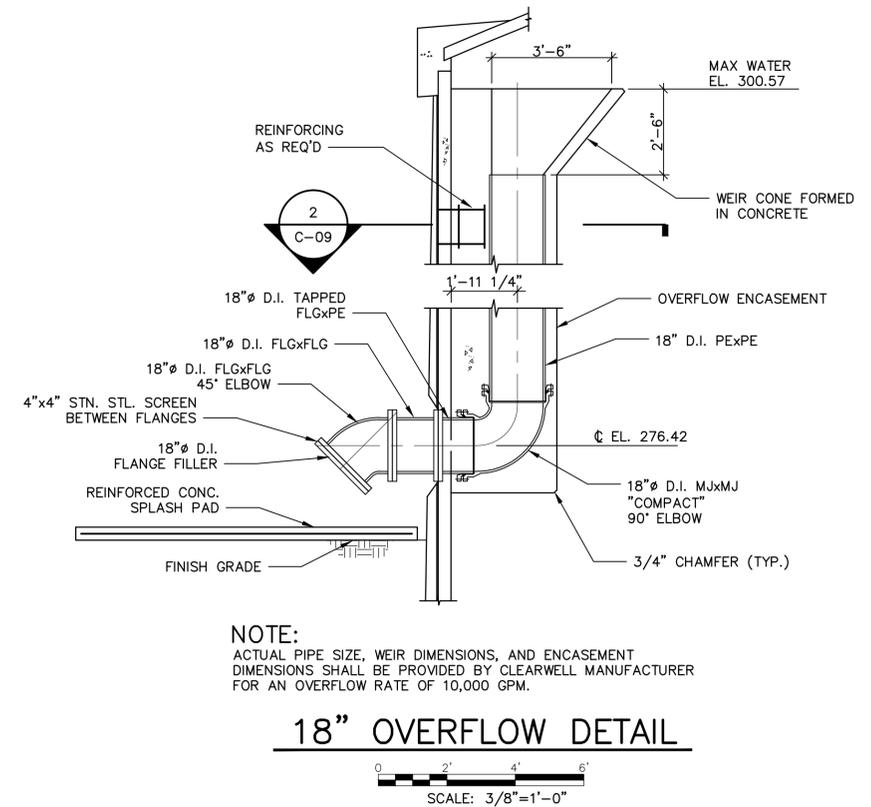
SHEET TITLE

CIVIL

TANK DETAILS I

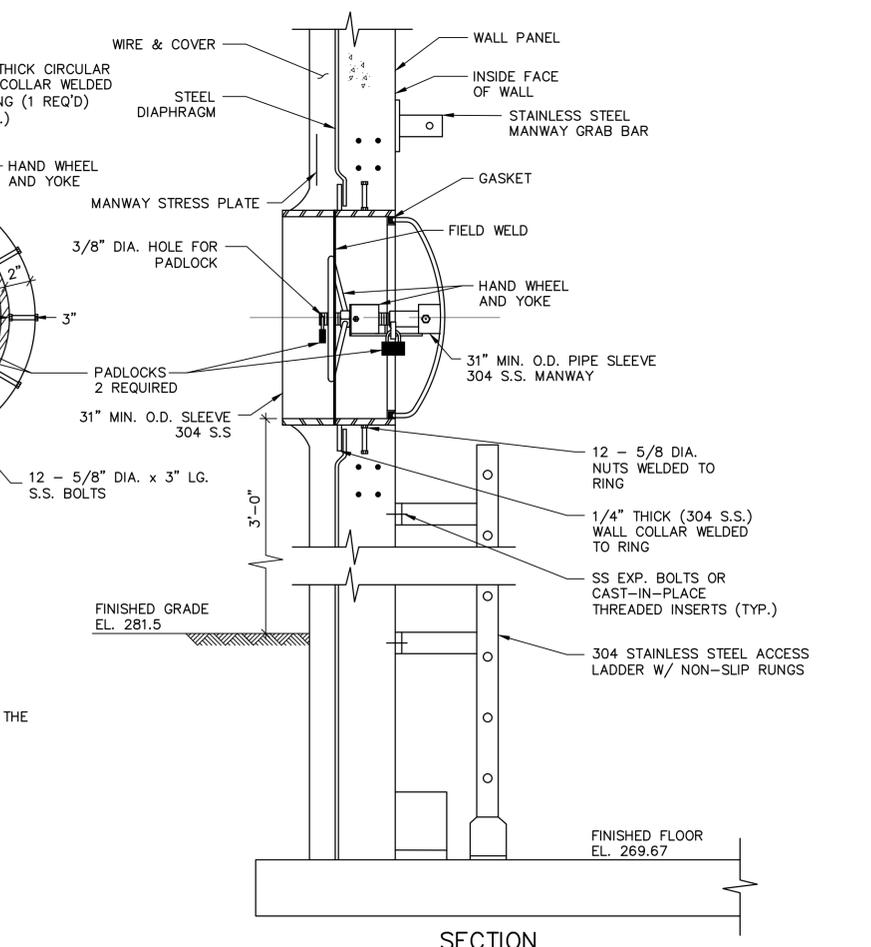
SCALE: AS SHOWN

C-09
SHEET 10 OF 13



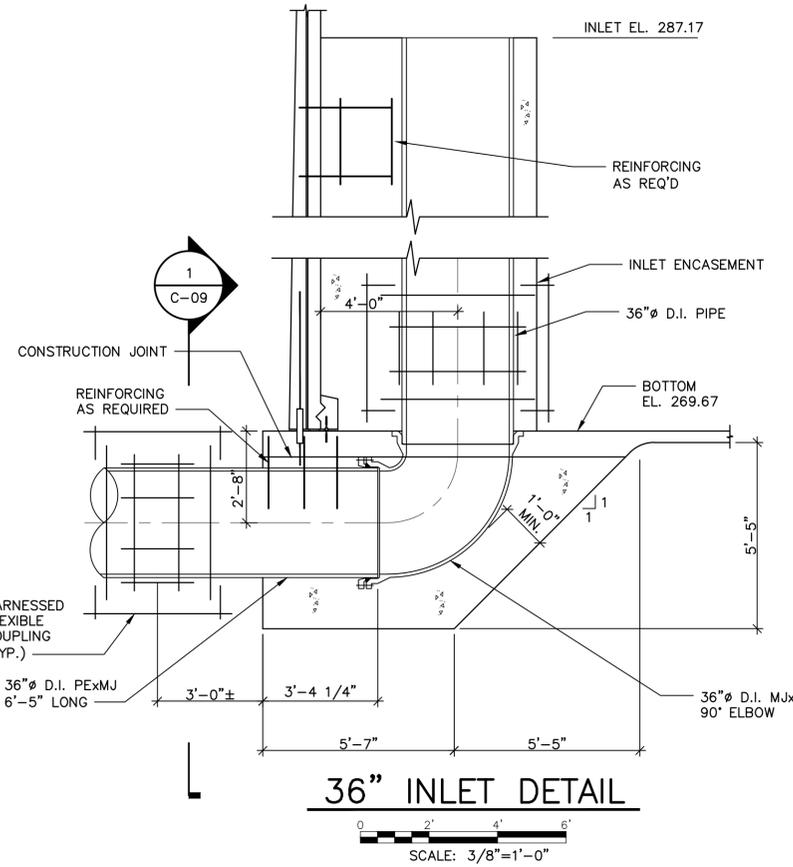
36" OUTLET DETAIL

SCALE: 3/8"=1'-0"



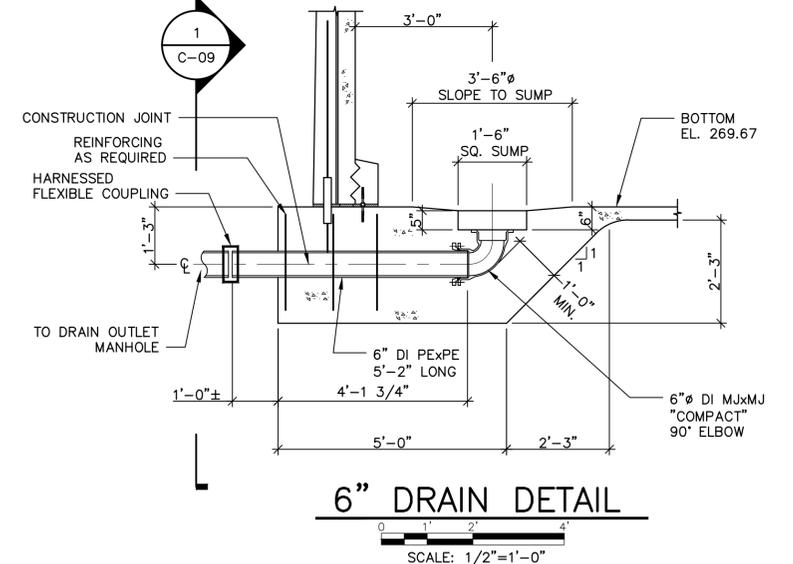
18" OVERFLOW DETAIL

SCALE: 3/8"=1'-0"



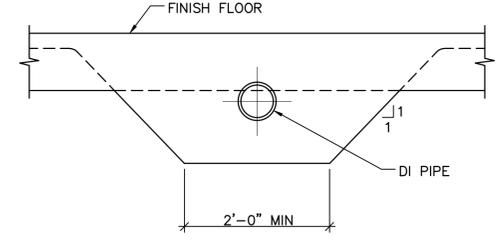
36" INLET DETAIL

SCALE: 3/8"=1'-0"

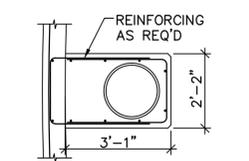


6" DRAIN DETAIL

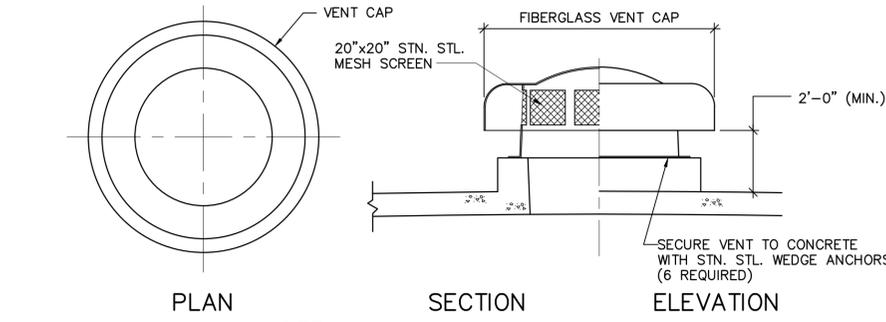
SCALE: 1/2"=1'-0"



1 SECTION
C-09 NOT TO SCALE



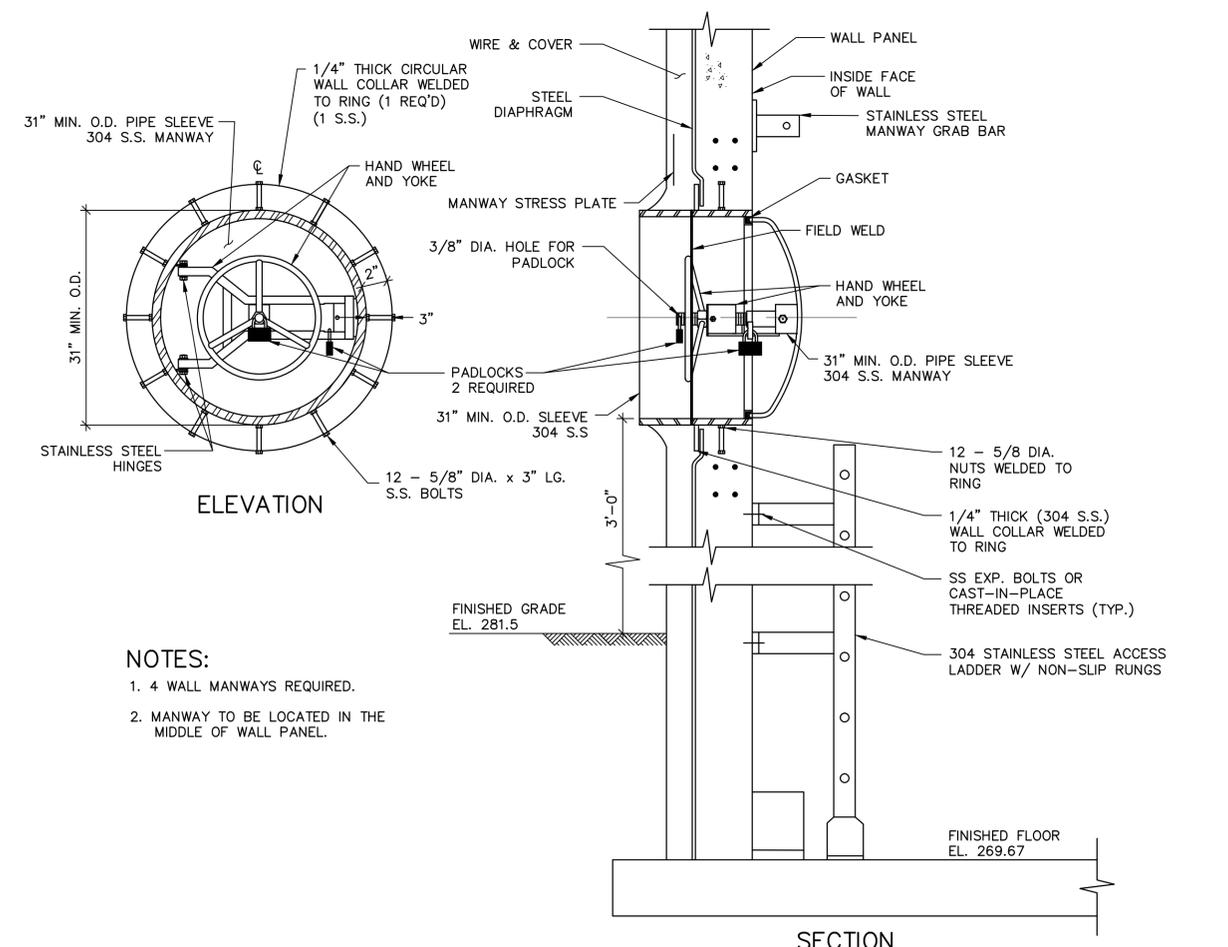
2 SECTION
C-09 NOT TO SCALE



NOTE:
VENT SIZE AS REQUIRED BY DESIGN.

ROOF VENT DETAIL

NOT TO SCALE



NOTES:
1. 4 WALL MANWAYS REQUIRED.
2. MANWAY TO BE LOCATED IN THE MIDDLE OF WALL PANEL.

WALL MANWAY DETAIL

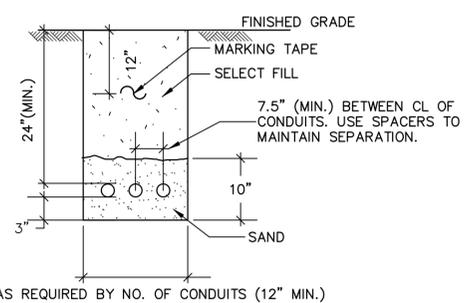
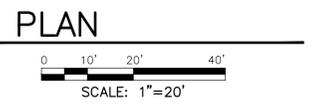
NOT TO SCALE

User: HAUSMANN Spec: AUS-NC5MOD File: G:\ACAD\PROJ\00266443\0000\CONTACT TANK\SHSHEETS\0266443-000.DWG Scale: 1:1 SaveDate: 7/25/2016 Time: 16:12 Plot Date: Hausmann, Steve: 7/26/2016: 09:45 : Layout: C-09

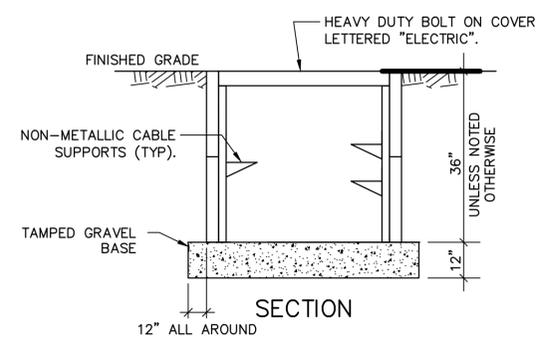
User: HAUSMANN Spec: AUS-NC5MOD File G:\CAD\PROJ\00266443\0000\CONTACT TANK\SHSHEETS\0266443-E01.DWG Scale: 1:1 SavedDate: 7/25/2016 Time: 16:34 Plot Date: Hausmann, Steve; 7/26/2016; 09:45; Layout: E-01



- NOTES:**
1. PROVIDE GFI ELECTRIC CIRCUIT TO LEVEL TRANSMITTER VAULT FROM EXISTING LIGHTING PANEL IN THE HEAD HOUSE ELECTRICAL ROOM.
 2. LEVEL TRANSMITTER SIGNAL SHALL BE CONNECTED TO THE EXISTING CONTROL ROOM CHART RECORDER.



TYPICAL UNDERGROUND CONDUIT INSTALLATION
NOT TO SCALE



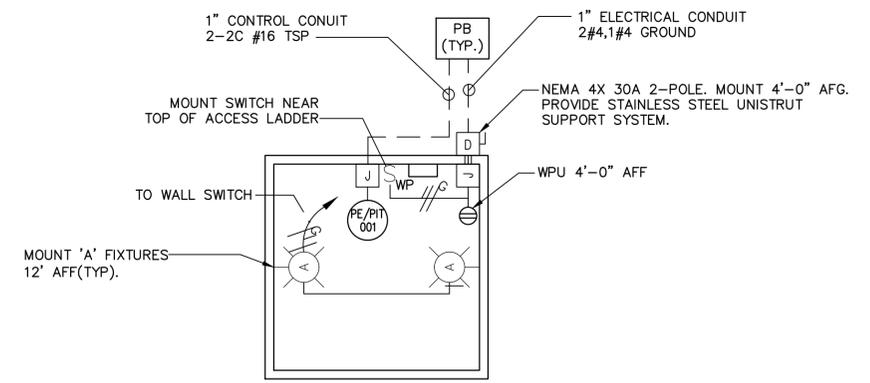
TYPICAL PULLBOX/HANDHOLE INSTALLATION
NOT TO SCALE

ELECTRICAL SYMBOLS

- | | | | |
|--|--|----------------------|--------------------------------|
| | LIGHTING PANEL | | EXISTING TO BE REMOVED |
| | CP - CONTROL PANEL | | CONCRETE ENCASED CONDUIT(S) |
| | MOTOR CONTROL CENTER | | JUNCTION BOX |
| | DUPLEX CONVENIENCE RECEPTACLE, 2 POLE, 3 WIRE, 120 VAC | | CIRCUIT BREAKER X=FRAME Y=TRIP |
| | DUPLEX WEATHERPROOF WHILE IN USE CONVENIENCE RECEPTACLE, 2 POLE, 3 WIRE, 120 VAC | | GROUND ROD INSTALLATION |
| | ELECTRIC MOTOR (NUMBER INDICATES HORSEPOWER) | ABBREVIATIONS | |
| | COMBINATION MAGNETIC MOTOR STARTER | AFF | ABOVE FINISHED FLOOR |
| | MANUAL MOTOR STARTER | AFG | ABOVE FINISHED GRADE |
| | LINE DISCONNECT SWITCH UNFUSED (30A UNLESS OTHERWISE NOTED) | GFI | GROUND FAULT INTERRUPTER |
| | TELEPHONE JUNCTION BOX | CP | CONTROL PANEL |
| | COMMUNICATION JUNCTION BOX | U.O.N. | UNLESS OTHERWISE NOTED |
| | SINGLE POLE SWITCH (#=SWITCH IDENTIFICATION AS REQUIRED) | LP | LIGHTING PANEL |
| | THERMOSTAT | STP | SHIELDED TWISTED PAIR |
| | BRANCH CIRCUIT HOME RUN TO PANELBOARD LETTERS AND NUMERALS INDICATE PANELBOARD AND CIRCUIT NUMBER. CROSS LINES INDICATE MINIMUM NUMBER OF PHASE CONDUCTORS. HALF HASH MARK INDICATES NEUTRAL. 'G' INDICATES GROUND CONDUCTOR. MINIMUM SIZE 3/4" C WITH #12 CABLE UNLESS OTHERWISE NOTED. | PB | PULL BOX |
| | EXPOSED CONDUIT | | |
| | CONDUIT IN SLAB, CEILING OR UNDERGROUND | | |
| | PULL BOX | | |

LIGHTING FIXTURE SCHEDULE

TYPE	LAMP	DESCRIPTION	MANUFACTURER & CAT. NO.
A	2X9W CFL	WALL MOUNT VAPOR TIGHT FLUORESCENT FIXTURE - 18W CFL, ENCLOSED AND GASKETED HOUSING SHALL BE CORROSION RESISTANT DIE CAST LOW COPPER ALUMINUM WITH INTERIOR FLUTED AND STIPPLED GLASS GLOBE AND GUARD, LUMINARIES SHALL BE UL LISTED FOR WET LOCATIONS.	COOPER GROUSE-HINDS CAT. #VFBF2226P OR EQUAL



1.2 MG TANK LEVEL/PRESSURE TRANSMITTER VAULT

- NOTES:**
1. PROVIDE NEW 20A BREAKER IN PANEL LP FOR 1.2 MG TANK LEVEL/PRESSURE VAULT POWER AND LIGHTING. BREAKER SHALL BE AS MANUFACTURED BY THE PANEL MANUFACTURER OR CERTIFIED AS 100% COMPATIBLE.
 2. PROVIDE A PULLBOX EVERY 250'. USE QUAZITE TIER 15 STACKABLE TYPE PG2424 X 30" DEEP OR EQUAL.
 3. FOR THE PRESSURE TRANSMITTER VAULT INSTALLATION PROVIDE ONE ADDITIONAL PULLBOX WITHIN 10 FEET.

INTERCONNECTION DIAGRAM
NOT TO SCALE



LEGAL ENTITY:
ARCADIS CE, INC.

CONSULTANTS

CITY OF NEWBURGH
CONTACT TANK AT
WASHINGTON LAKE
FILTRATION PLANT



NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS CE, INC. 2016
DATE: JULY 2016
PROJECT NO.: 00266443.0000
FILE NAME: 0266443-E01
DESIGNED BY: M. KOSIER
DRAWN BY: S. HAUSMANN
CHECKED BY: R. OSTAPCZUK

SHEET TITLE
CIVIL
**ELECTRICAL WORK,
PLAN AND LEGEND**

SCALE: AS SHOWN