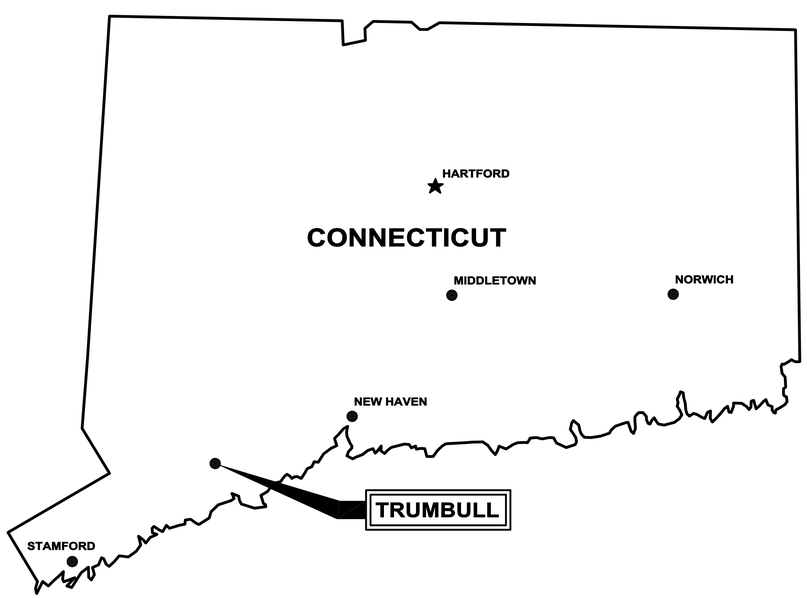
BID SET No. _____

TOWN OF TRUMBULL, CONNECTICUT

CONTRACT DRAWINGS FOR

PARK AVENUE PUMP STATION
PUMP REPLACEMENT PROJECT

JANUARY 2018



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GENERAL

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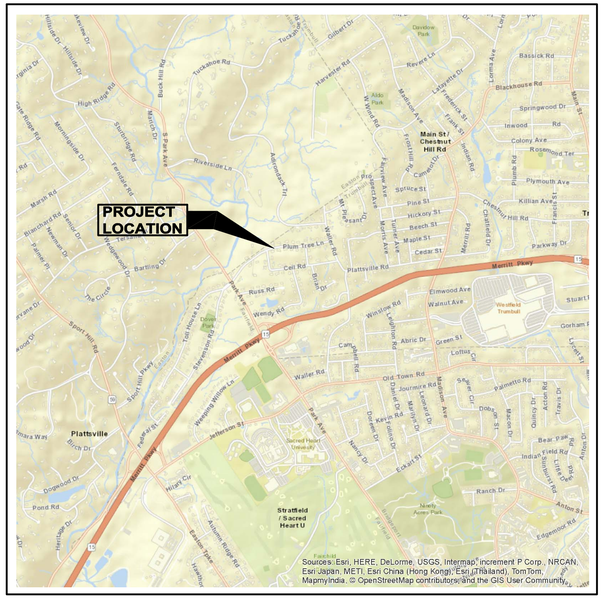
CIVIL

C-1 SITE PLAN – DEMOLITION AND MODIFICATIONS

PROCESS

PR-1 PROCESS NOTES, LEGEND, AND DETAILS
PR-2 DEMOLITION PLANS AND SECTIONS
PR-3 MODIFICATION PLANS AND SECTIONS



LOCATION PLAN

SCALE: NTS

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STATE OF CONNECTICUT
DENIS A. DIEVERSA
No. 25780
LICENSED
PROFESSIONAL ENGINEER
1-7-18

FOR REVIEW JANUARY 2018

FOR BIDDING JANUARY 2018

WP PROJECT No. 13095E

GENERAL NOTES

1. THE CONTRACTOR IS REFERRED TO SECTION 01050 OF THE SPECIFICATIONS REGARDING COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS.
2. REFER TO DRAWING PR–2, FOR ADDITIONAL INFORMATION REGARDING EXISTING FACILITIES.
3. REFER TO SPECIFICATION SECTION 01010, WHICH CONTAINS INFORMATION ON CONSTRAINTS OF CONSTRUCTION SEQUENCING.
4. SEVERING OF EXISTING UTILITIES FOR ABANDONMENT, OR REMOVAL OF A SEGMENT FROM SERVICE, SHALL BE PERFORMED IN SUCH A MANNER AS TO ALLOW THE REMAINING ACTIVE SEGMENT TO CONTINUE IN ITS INTENDED SERVICE. CAP ACTIVE SEGMENTS WITH APPROPRIATE FITTINGS, JOINT RESTRAINT, ETC. TO ENSURE THEIR INTEGRITY. PLUG ENDS OF ABANDONED PIPE SEGMENTS WITH CONCRETE UNLESS SPECIAL CIRCUMSTANCES DICTATE PLUGGING ABANDONED PIPES WITH BLIND FLANGES, RESTRAINED MECHANICAL JOINT PLUGS, ETC. AS APPROPRIATE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE OWNER RESERVES THE RIGHT TO RETAIN ANY SUCH PIPING, EQUIPMENT AND MATERIALS DESIGNATED FOR DEMOLITION FOR THEIR USE. SUCH MATERIALS TO BE RETAINED SHALL BE PROPERLY STORED IN AN ON–SITE LOCATION. COORDINATE LOCATION AND MATERIALS TO BE SALVAGED WITH THE OWNER/ENGINEER.
6. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AS PART OF THE PROJECT RECORD DOCUMENTS IN ACCORDANCE WITH SPECIFICATION SECTION 01720.
7. THE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE BASED ON PREVIOUS CONSTRUCTION DESIGN PLANS, WHICH ARE AVAILABLE FOR INSPECTION AT THE ENGINEER'S OFFICE. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED. THE CONTRACTOR WILL REALIGN NEW PIPE LOCATIONS AS REQUIRED TO CONFORM TO EXISTING LINES AND AS APPROVED BY THE ENGINEER.
8. CONTRACTOR TO NOTE THAT, IN GENERAL, ALL EXISTING CONDITION INFORMATION ON THE DRAWINGS ARE SHOWN WITH A LIGHTER LINE WEIGHT AND WITH A SLANTED TYPE TEXT.
9. THE EXITING GENERATOR AS SHOWN HAS BEEN REPLACED WITH A NEW GENERATOR SINCE THIS PHOTO.
10. DISCONNECT ALL EXISTING EQUIPMENT AND CONTROLS EFFECTED BY OTHER WORK. RECONNECT AND RETEST AFTER INSTALLATION OF THE NEW CONTROL PANEL AND PUMPS.
11. SEWAGE PUMPS AND CONTROL PANEL HAVE BEEN PRE–SELECTED. REFER TO APPENDIX A FOR ADDITIONAL INFORMATION

DEMOLITION NOTES

DENOTES ITEM TO BE DEMOLISHED

1. DISCONNECT AND CAREFULLY REMOVE EXISTING PUMP CONTROL PANEL TO ALLOW FOR INSTALLATION OF THE NEW PUMP CONTROL PANEL. TURN EXISTING PANEL AND COMPONENTS OVER TO THE OWNER.
2. SAWCUT AND REMOVE EXISTING CONCRETE PAD. EXCAVATE DOWN TO EXISTING CONDUITS BETWEEN THE EXISTING PUMP CONTROL PANEL AND DRYWELL ACCESS TUBE. REMOVE EXISTING CONDUIT AND INSTALL NEW POWER AND CONTROL CONDUITS (RIGID GALVANIZED BURIED AND ALUMINUM EXPOSED) FROM THE NEW PUMP CONTROL PANEL TO THE NEW PUMPS. PUMP POWER CABLES WILL BE RUN TO AND TERMINATED AT THE VFD'S IN THE NEW PUMP CONTROL PANEL. INSTALL JUNCTION BOX AND EXPULSION PROOF SEALS ON PUMP CABLES BETWEEN THE DRYWELL AND PUMP CONTROL PANEL. REFER TO APPENDIX A FOR ADDITIONAL INFORMATION ON WIRE SIZES AND TERMINATION LOCATIONS. COORDINATE SIZE WITH NEW PUMPS AND INSTRUMENTS. EXISTING CONDUIT MAY BE REUSED TO THE EXTENT PRACTICAL IF PROPERLY SIZED. ONCE NEW CONDUIT IS IN PLACE, BACKFILL AND TOP AREA WITH NEW 4–INCH THICK CONCRETE PAD WITH REINFORCED MESH.
3. SAWCUT AND REMOVE EXISTING PAVEMENT. EXCAVATE DOWN TO EXISTING CONDUITS BETWEEN THE EXISTING WETWELL AND DRYWELL ACCESS TUBE. REMOVE EXISTING CONDUIT AND INSTALL NEW POWER AND CONTROL CONDUITS (RIGID GALVANIZED BURIED AND ALUMINUM EXPOSED) FROM THE NEW PUMP CONTROL PANEL TO THE INSTRUMENTS. REFER TO APPENDIX A FOR ADDITIONAL INFORMATION ON WIRE SIZES AND TERMINATION LOCATIONS. INSTALL SEALED E–WYES ON ALL CONDUIT ENTERING OR EXITING THE WET WELL. COORDINATE SIZE WITH NEW INSTRUMENTS. EXISTING CONDUIT MAY BE REUSED TO THE EXTENT PRACTICAL IF PROPERLY SIZED. ONCE NEW CONDUIT IS IN PLACE, BACKFILL AND TOP AREA WITH NEW 4–INCH THICK CONCRETE PAD WITH REINFORCED MESH.
4. FEED THE NEW PUMP CONTROL PANEL FROM THE EXISTING POWER DISTRIBUTION PANEL. REPLACE EXISTING CONDUIT AS REQUIRED.

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
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1			
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DESIGNED BY: DAD
CAD COORD: DJG
CAD: DJG
CHECKED BY: DAD
DATE: 1–12–18
APPROVED BY: CEK
DATE: 1–19–18
PROJECT NO: 13095E

STATE OF CONNECTICUT
DENNIS A. DIEVERT
NO. 23180
LICENSED
PROFESSIONAL ENGINEER
1-19-18

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PARK AVENUE PUMP STATION
PUMP REPLACEMENT PROJECT
TRUMBULL, CT

SITE PLAN – DEMOLITION AND MODIFICATIONS

DRAWING
C–1

G:\DWGS\CT\TRUMBULL\13095–PARKAVEPS\13095–FD\CIV\C–1 SITE PLAN – DEMOLITION AND MODIFICATIONS.DWG | C–1 SITE PLAN – DEMOLITION AND MODIFICATIONS | 1:4.56 | ---- | 1/19/2018 7:35:16 AM | DARREN.GAUTHIER LAST SAVED BY: DARREN.GAUTHIER 1/18/2018 11:59 AM

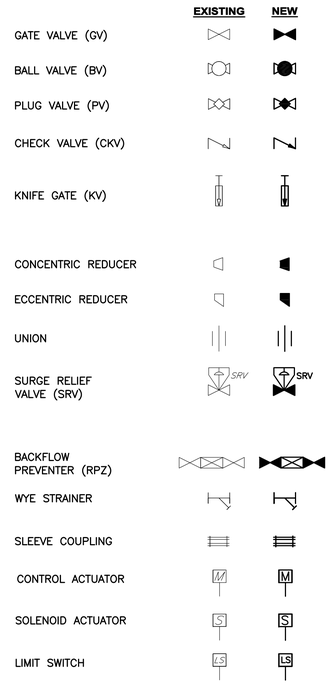
PROCESS GENERAL NOTES:

1. ALL EQUIPMENT AND PIPING LAYOUT DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH EQUIPMENT SUPPLIED, AND/OR EXISTING CONDITIONS. SOME INFORMATION ASSOCIATED WITH EXISTING STRUCTURES, PIPING AND EQUIPMENT LOCATIONS, ELEVATIONS AND SIZES, WERE TAKEN FROM THE RECORD DRAWINGS, FOR THE TOWN OF TRUMBULL, CT SANITARY SEWER SYSTEM PHASE II, CONTRACT No.11, DATED MARCH, 1980. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES, EQUIPMENT OR PIPING THAT MAY BE AFFECTED. IN SOME SPECIFIC INSTANCES, WHERE SPECIAL ATTENTION MAY BE REQUIRED BY THE CONTRACTOR, SOME DIMENSIONS, ELEVATIONS, ETC. HAVE BEEN NOTED WITH AN " * ". THIS DOES NOT HOWEVER, LIMIT THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL NECESSARY INFORMATION FOR CONSTRUCTION.
2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DIMENSIONS, LAYOUT OR ELEVATION CHANGES REQUIRED TO SUIT THE SPECIFIC EQUIPMENT BEING PROVIDED UNDER THIS CONTRACT. WHEN SUCH EQUIPMENT REQUIRES PADS, PIERS, CURBING, ETC., THAT DIFFERS FROM THAT SHOWN ON THE CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL COORDINATE THE STEEL REINFORCING SHOP DRAWINGS ACCORDINGLY.
3. ALL BURIED CONNECTIONS TO STRUCTURES, SHALL HAVE SLEEVE TYPE FLEXIBLE CONNECTIONS APPROXIMATELY 4–FEET FROM THE STRUCTURES. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED (SOLID SLEEVE TYPE). REFER TO SPECIFICATION SECTION 15088.
4. PROVIDE CAST OR DUCTILE IRON WALL CASTINGS, OR GALVANIZED STEEL PIPE SLEEVES, FOR ALL PIPE PENETRATIONS MADE THROUGH CONCRETE FOUNDATIONS, WALLS, AND SLABS, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WALL SLEEVES AND WALL CASTINGS SHALL HAVE SEALING/ANCHORING COLLARS. SEE PROCESS, DRAWINGS FOR LOCATIONS OF PENETRATIONS. NEW PENETRATIONS THROUGH EXISTING STRUCTURE WALLS SHALL BE BY CORING MACHINE AND LINK TYPE COMPRESSION SEALS, UNLESS OTHERWISE INDICATED. OPENINGS TO BE COMPATIBLE WITH REQUIRED PIPING AND STANDARD LINK SEAL SIZES. FOR ADDITIONAL INFORMATION, REFER TO SPECIFICATION SECTION 15092.
5. FOR PIPING MATERIAL, SEE THE PIPE SCHEDULE IN SPECIFICATION SECTION 15050.
6. INSTALL CORPORATION COCKS ON ALL BUILDING AND STRUCTURE INTERIOR PIPING HIGH POINTS TO PREVENT AIR BINDING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT NUMBER AND LOCATIONS OF THESE CORPORATION COCKS BASED UPON INFORMATION DEPICTED ON DRAWINGS AND ACTUAL FIELD ROUTING OF PIPING. REVIEW LOCATIONS WITH ENGINEER BEFORE INSTALLATION. THESE MANUAL AIR RELEASES SHALL INCLUDE A ½" BRASS CORPORATION COCK WITH ½" COPPER TUBING ADEQUATELY SUPPORTED, EXTENDING TO A LOCAL AREA DRAIN. ROUTING OF TUBING AND SELECTED DRAIN TO BE REVIEWED WITH, AND ACCEPTED BY, THE ENGINEER.
7. ALL PIPES SHALL BE ADEQUATELY RESTRAINED AND SUPPORTED IN ACCORDANCE WITH SPECIFICATION SECTION 15094.
8. AFTER INSTALLATION, ALL PIPELINES SHALL BE PRESSURE TESTED FOR TIGHTNESS IN ACCORDANCE WITH SPECIFICATION SECTIONS 15050 AND 02755. ALL LEAKS SHALL BE CORRECTED AND RETESTED UNTIL PRESSURE TEST IS SATISFACTORILY COMPLETED.
9. ALL PIPING SHALL BE CLEANED, TO THE SATISFACTION OF THE ENGINEER, BEFORE TESTING.
10. PROVIDE 4–INCH HIGH (MIN) REINFORCED CONCRETE PAD UNDER ALL EQUIPMENT, CONTROL PANELS, PIPE AND EQUIPMENT SUPPORTS, TANKS, ETC. UNLESS OTHERWISE INDICATED.
11. ALL REDUCERS SHALL BE CONCENTRIC TYPE UNLESS DESIGNATED AS ECCENTRIC (ECC) ON THE DRAWINGS. ECCENTRIC REDUCERS SHALL BE INSTALLED WITH FLAT SIDE UP.
12. ALL PENETRATIONS BETWEEN CLASS 1, DIVISION 1 AREAS AND UNCLASSIFIED AREAS SHALL BE GAS TIGHT. THE WETWELL IS CLASS1 DIVISION1.
13. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ADAPTERS, FITTINGS AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE INSTALLATION. THE USE OF UNI–FLANGES WILL NOT BE ALLOWED UNLESS INDICATED ON THE DRAWINGS.
14. ALL STAINLESS STEEL FASTENERS FOR PIPING, EQUIPMENT, SUPPORTS, ETC.., SHALL BE HAND TIGHTENED IN ORDER TO LIMIT THE POTENTIAL FOR GALLING.
15. CONTRACTOR TO NOTE THAT ALL EXISTING INFORMATION ON THE DRAWINGS IS SHOWN WITH A LIGHTER LINE WEIGHT AND INDICATED WITH A SLANTED TYPE TEXT. THE EXCEPTION IS WHEN SCANNED IMAGES ARE UTILIZED FROM THE PREVIOUS CONSTRUCTION PROJECTS NOTED IN GENERAL NOTE No.1 ABOVE. WHEN REVIEWING DRAWINGS NOTED AS "SCANNED" UNDER DRAWING TITLE, THE CONTRACTOR SHALL IGNORE ANY REFERENCE TO PREVIOUS CONTRACT WORK. SCANNED IMAGES ARE NOT TO SCALE, HOWEVER AN APPROXIMATE SCALE MAY BE GIVEN FOR CONVENIENCE.

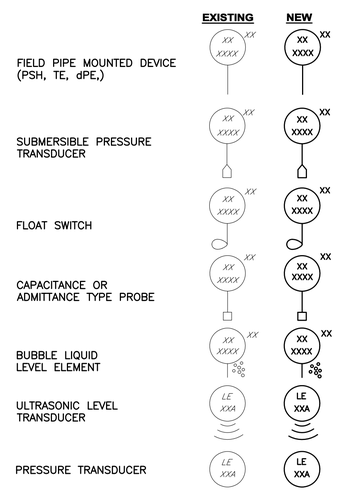
PROCESS DEMOLITION NOTES:

1. REFER TO INDIVIDUAL DRAWINGS FOR SPECIFIC DEMOLITION NOTES.
2. INDICATES EXISTING PIPING/EQUIPMENT TO REMAIN FOR REUSE.
   INDICATES EXISTING PIPING/EQUIPMENT TO BE DEMOLISHED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. THE OWNER RESERVES THE RIGHT TO RETAIN PIPING, EQUIPMENT AND/OR MATERIALS ON SITE FOR THEIR USE AS SPECIFIED IN SECTION 02050. SUCH MATERIAL TO BE PLACED IN AN ON–SITE STORAGE AREA, REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO THE OWNER AND ENGINEER. RETAINED EQUIPMENT SHALL BE REMOVED IN SUCH A WAY AS NECESSARY TO MAINTAIN ITS FUNCTIONAL AND PHYSICAL INTEGRITY.
4. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AND LOCATION OF UTILITIES FOUND AS PART OF THE PROJECT RECORD DOCUMENTS, AS SPECIFIED IN SECTION 01720.
5. REFER TO THE DEMOLITION SPECIFICATION SECTION 02050, SUMMARY OF WORK SPECIFICATION 01010 AND SITE DEMOLITION DRAWING C–1 FOR ADDITIONAL INFORMATION REGARDING DEMOLITION REQUIREMENTS AND CONSTRUCTION SEQUENCING.
6. REFER TO DRAWING C–1 FOR ADDITIONAL INFORMATION REGARDING EXISTING UTILITIES. THE SIZES, LOCATIONS AND MATERIALS OF CONSTRUCTION INDICATED ARE FROM THE BEST AVAILABLE INFORMATION AND MAY NOT BE COMPLETE OR ACCURATE. ALL SIZES, LOCATIONS AND MATERIALS OF CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AS REQUIRED. ALL EXISTING UTILITIES THAT ARE TO REMAIN, AND ARE DAMAGED BY THE CONTRACTOR'S ACTIVITIES, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. SEVERING THE EXISTING UTILITIES FOR ABANDONMENT, OR REMOVAL OF A SEGMENT FROM SERVICE, SHALL BE PERFORMED IN SUCH A MANNER AS TO ALLOW THE REMAINING ACTIVE SEGMENT TO CONTINUE IN ITS INTENDED SERVICE. CAP ACTIVE SEGMENTS WITH APPROPRIATE FITTING, JOINT RESTRAINT, ETC. TO ENSURE THEIR INTEGRITY. THE METHOD OF CAPPING SHALL BE REVIEWED WITH, AND ACCEPTABLE TO, THE ENGINEER.
8. ALL PIPING, EQUIPMENT AND MATERIALS TO BE DEMOLISHED AND/OR REMOVED FROM SERVICE MUST BE COORDINATED WITH THE OWNER AND ENGINEER BEFOREHAND.
9. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE THAT ALL FLOWS, FLOW METERING AND LEVEL CONTROLS ARE MAINTAINED DURING CONSTRUCTION. GRAVITY, PUMPED BYPASSES OR OTHER MEANS OF FLOW MAINTENANCE SHALL BE REVIEWED WITH, AND ACCEPTABLE TO, THE ENGINEER. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY STOPPAGES WITH THE OWNER AND ENGINEER. CONTRACTOR SHALL VERIFY WITH OWNER/ENGINEER. ALL VALVES, GATES, EQUIPMENT, ETC. ARE FUNCTIONAL PRIOR TO ASSUMING UTILIZATION FOR FLOW ISOLATION.
10. WHERE PIPING OR CONDUIT THAT IS TO BE REMOVED PASSES THROUGH THE WALL OF THE STRUCTURE, IT SHALL BE CUT OFF AS NEAR TO THE WALL AS PRACTICAL AND PROPERLY SEALED ON EACH SIDE OF THE WALL, OR AS SHOWN ON THE DRAWINGS. SEAL METHOD SHALL BE SUBJECT TO REVIEW AND ACCEPTANCE OF THE ENGINEER.
11. ALL WALL AND/OR FLOOR PENETRATIONS REMAINING AFTER THE REMOVAL OF PIPING OR CONDUIT ARE TO BE PATCHED AND FINISHED FLUSH TO MATCH EXISTING SURFACES.
12. REMOVE ALL PUMP AND EQUIPMENT PADS NOT BEING RE–USED AND FINISH FLUSH TO FLOOR LEVEL.
13. REMOVE ALL WALL BRACKETS, PIPE HANGARS AND PIPE SUPPORTS NOT BEING RE–USED. PATCH BOLT HOLES TO MATCH THE EXISTING SURFACE.
14. ALL WALL AND FLOOR SURFACES DAMAGED OR DISTURBED AS A RESULT OF DEMOLITION BY THE CONTRACTOR OR ITS SUB–CONTRACTORS, SHALL BE PATCHED AND PAINTED.
15. WHERE PIPING AND/OR EQUIPMENT THAT IS NOTED AS ABANDONED INTERFERES WITH THE CONTRACTOR'S CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL REMOVE AND DISPOSE OF AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
16. ALL ANCHOR BOLTS TO BE REMOVED SHALL BE CUT/MELTED TO A MINIMUM OF ¾" BELOW EXISTING CONCRETE OR MASONRY SURFACES AND PATCHED/FILLED FLUSH TO SURFACE WITH NON–SHRINK GROUT.

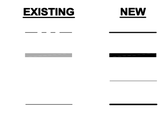
VALVES, FITTINGS AND ACTUATORS



FIELD INSTRUMENTS



LINETYPES



ABBREVIATIONS - GENERAL

AE	ANALYZING ELEMENT
AL	ALUMINUM
ALT	ALTERNATE
BF	BLIND FLANGE
BLDG	BUILDING
BOT	BOTTOM
CI	CAST IRON
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUED
CPL	COUPLING
DET	DETAIL
DI	DUCTILE IRON
DIA (Ø)	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DWG	DRAWING
ECC	ECCENTRIC
EL (ELEV)	ELEVATION
ELL	ELBOW
EQUIP	EQUIPMENT
EXIST (EX)	EXISTING
EXP	EXPANSION
FLG	FLANGE
FLR	FLOOR
FM	FORCE MAIN
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
HP	HIGH POINT
ID	INSIDE DIAMETER
INV	INVERT
JT	JOINT
LE	LEVEL ELEMENT
LR	LONG RADIUS
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MTD	MOUNTED
NIC	NOT IN CONTRACT
NO	NUMBER
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
PVC	POLYVINYL CHLORIDE
RED	REDUCER
REQ'D	REQUIRED
S	SEWER
SCH	SCHEDULE
SECT	SECTION
SHT	SHEET
SP	SUMP PUMP
SPD	SUMP PUMP DISCHARGE
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
THK	THICKNESS
TYP	TYPICAL
V	VENT
VERT	VERTICAL

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	100% CONTRACT DRAWINGS	CEK	1–18
1			
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DESIGNED BY: DAD
CAD COORD.: DJG
CAD: DJG
CHECKED BY: DAD
DATE: 1–12–18
APPROVED BY: KEC
DATE: 1–19–18
PROJECT NO: 13095E

STATE OF CONNECTICUT
DENIS A. DIEVERT
No. 23780
LICENSED PROFESSIONAL ENGINEER
1-19-18

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PARK AVENUE PUMP STATION
PUMP REPLACEMENT PROJECT
TRUMBULL, CT

PROCESS NOTES, LEGEND, AND DETAILS

DRAWING
PR–1

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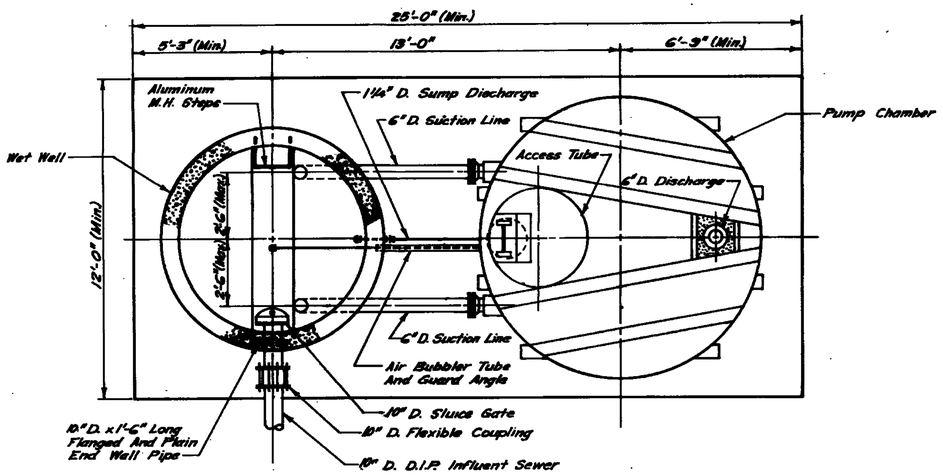
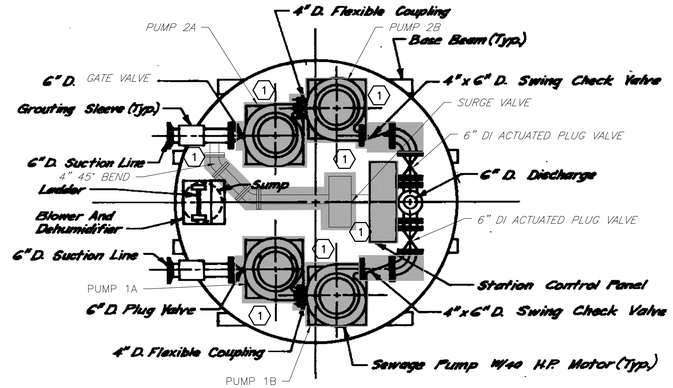


STATION PLAN
"SCANNED" (APPROX SCALE: 3/8"=1'-0")



STATION DEMOLITION PLAN
"SCANNED" (APPROX SCALE: 3/8"=1'-0")

PHOTO 6 –
WETWELL INSTRUMENTS

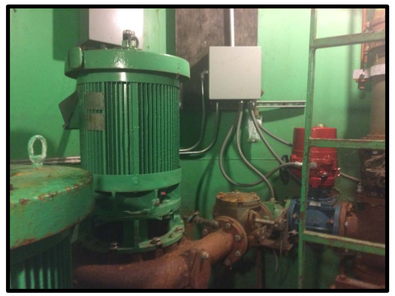


PHOTO 1 –
PUMP(TYP)

DEMOLITION NOTES:

INDICATES EXISTING PIPING/EQUIPMENT TO BE DEMOLISHED

1. REMOVE/DEMOLISH EXISTING PUMPS, PIPES, VALVES, FITTINGS, EQUIPMENT PADS, ELECTRICAL CONNECTIONS, CONTROL PANEL, SUPPORTS IN THEIR ENTIRETY TO ALLOW FOR INSTALLATION OF NEW PUMPS.
2. REMOVE/DEMOLISH EXISTING TRANSDUCER BACK TO PUMP CONTROL PANEL ENCLOSURE.
3. REMOVE AND REINSTALL SAFETY LANDING TO ALLOW FOR REMOVAL AND INSTALLATION OF EQUIPMENT.

PHOTO 2 –
PUMP SUCTION PIPING

PHOTO 3 –
PUMP DISCHARGE PIPING

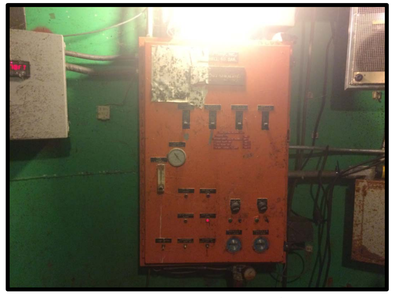


PHOTO 4 –
PUMP CONTROL PANEL

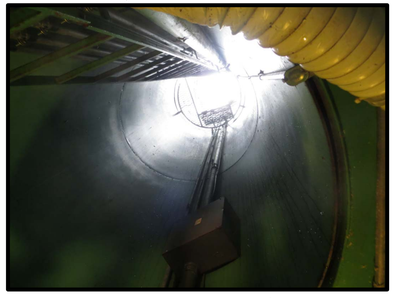
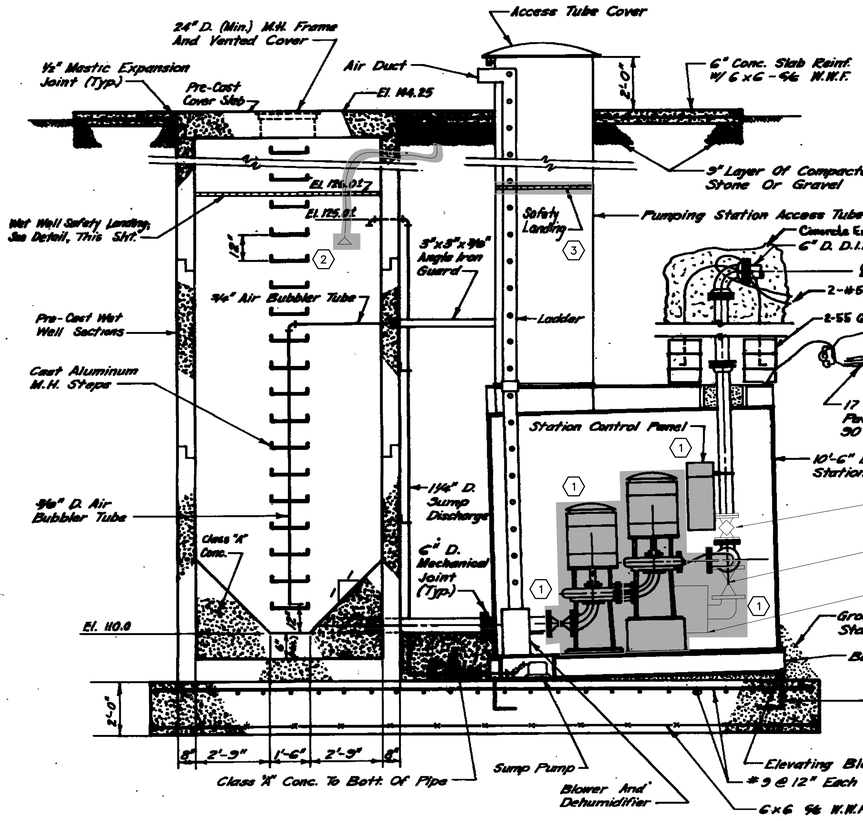


PHOTO 5 –
POWER AND CONTROL CONDUITS



DEMOLITION ELEVATION
"SCANNED" (APPROX SCALE: 3/8"=1'-0")

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NO.	SUBMISSIONS/REVISIONS	APP'D	DATE
	100% CONTRACT DRAWINGS	CEK	1-18
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PARK AVENUE PUMP STATION
PUMP REPLACEMENT PROJECT
TRUMBULL, CT

DEMOLITION PLANS AND SECTIONS

DRAWING
PR-2

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G:\DWGS\CT\TRUMBULL\13095-PARKAVEPS\13095-FD\PRO\13095-PRS-PSDEMO.DWG | 13095-PRS-PSdemo | 1:10.1236 | ---- | 1/19/2018 7:36:52 AM | DARREN.GAUTHIER

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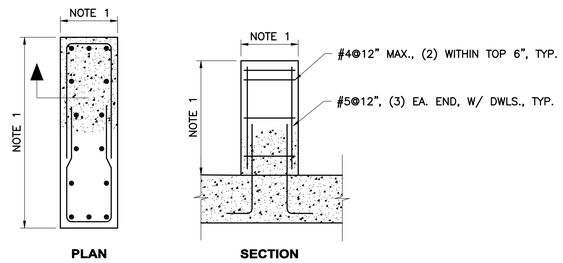
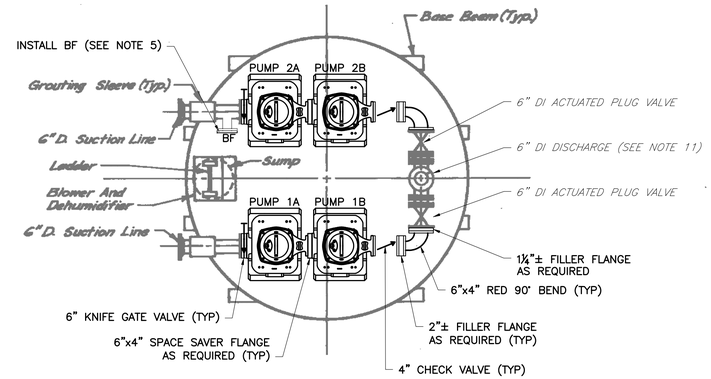


NOTES:

1. COORD. DIMENSIONS WITH REQ'S OF PUMP MANUF.
2. PUMP PEDESTAL ANCHOR BOLTS PER MANUF. (NOT SHOWN).
3. WHERE INSTALLED AT EXISTING SLAB, DRILL & EPOXY GROUT DWLS.

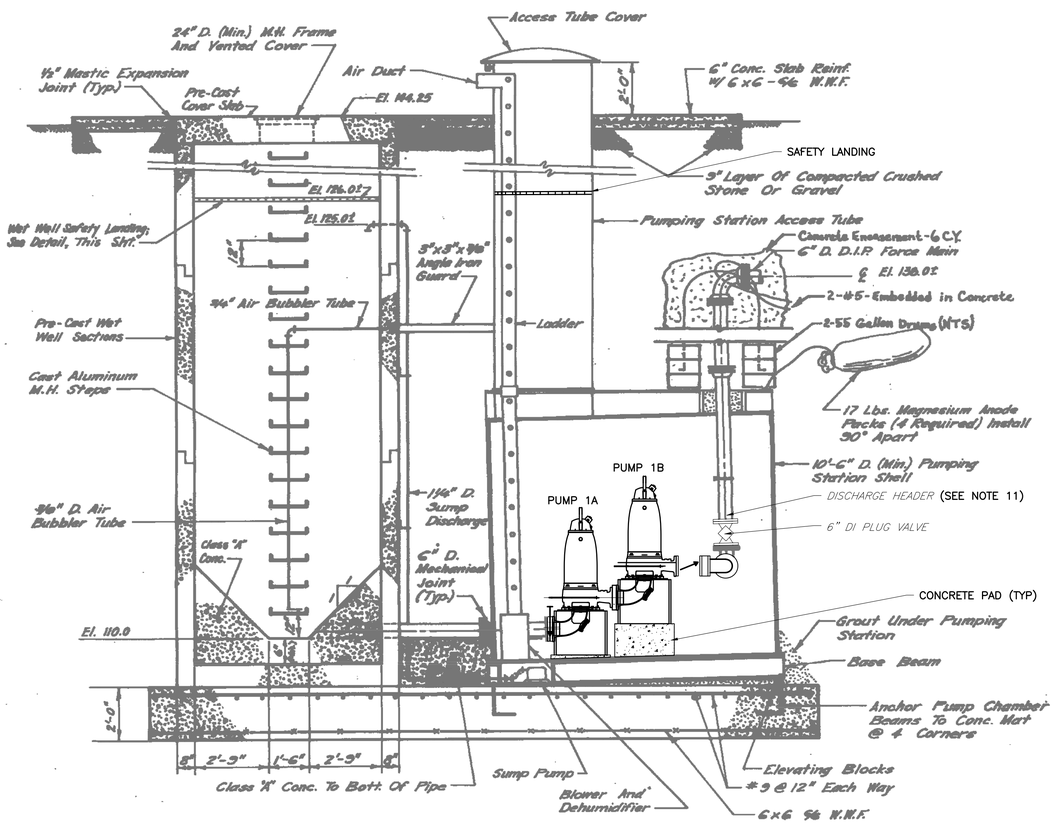
CONCRETE PUMP PEDESTAL

SCALE: NTS



STATION MODIFICATION PLAN

"SCANNED" (APPROX SCALE: 3/8"=1'-0")



MODIFICATION ELEVATION

"SCANNED" (APPROX SCALE: 3/8"=1'-0")

NOTES:

1. CONTRACTOR TO NOTE A SCANNED IMAGE OF THE EXISTING CONTRACT DRAWINGS HAS BEEN USED. EXISTING INFORMATION HAS BEEN FADED BACK FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR COMMENCING CONSTRUCTION. FOR INFORMATION PERTAINING TO EXISTING CONTRACT DRAWINGS, REFER TO PROCESS GENERAL NOTES NO.1 AND NO.15, ON DWG PR-1.
2. PAINT ALL NEW AND EXISTING PIPING WITH TWO COATS OF EPOXY PAINT, TNEMEC SERIES N69 EPOXOLINE OR EQUAL.
3. ALL PIPING SHALL BE CLASS 52 DUCTILE IRON.
4. ALL PENETRATIONS BETWEEN WETWELL AND DRY WELL SHALL BE GAS TIGHT.
5. INSTALL BLIND FLANGE ON SADDLE TAPPED INTO PUMP 2 SUCTION PIPING. COORDINATE WETWELL PUMP DOWN WITH OWNER TO INSTALL.
6. PROVIDE CONCRETE PADS FOR NEW PUMPS.
7. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
8. PROVIDE REINFORCED PIPE SUPPORTS AS REQUIRED.
9. CURRENTLY, PUMPS 1A AND 1B ARE OPERATIONAL. REMOVE AND REPLACE PUMPS 2A AND 2B WITH NEW PUMP 2/ PUMP 2 SHALL BE STARTED UP AND OPERATIONAL FOR 48 HOURS PRIOR TO REMOVAL AND REPLACEMENT OF PUMP 1A AND 1B WITH PUMP 1.
10. INSTALL PUMP POWER AND SIGNAL CABLES BACK TO THE NEW VDF'S IN THE NEW CONTROL PANEL ENCLOSURE AT GRADE. RE-USE EXISTING CONDUITS TO THE EXTENT PRACTICAL.
11. INCLUDE COSTS IN BID TO REMOVE, RECONFIGURE AND REINSTALL DISCHARGE HEADER AND ACTUATED PLUG VALVES TO COORDINATE WITH LAYING LENGTHS OF NEW PIPE.

NO	SUBMISSIONS/REVISIONS	APP'D	DATE
	100% CONTRACT DRAWINGS	CEK	1-18
1			
2			
3			
4			
5			

DESIGNED BY: DAD
CAD COORD: DJG
CAD: DJG
CHECKED BY: DAD
DATE: 1-12-18
APPROVED BY: KEC
DATE: 1-19-18
PROJECT NO: 13095E

STATE OF CONNECTICUT
DENIS A. DIETERICH
No. 25780
LICENSED PROFESSIONAL ENGINEER
1/18

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PARK AVENUE PUMP STATION
PUMP REPLACEMENT PROJECT
TRUMBULL, CT

MODIFICATION PLANS AND SECTIONS

DRAWING
PR-3