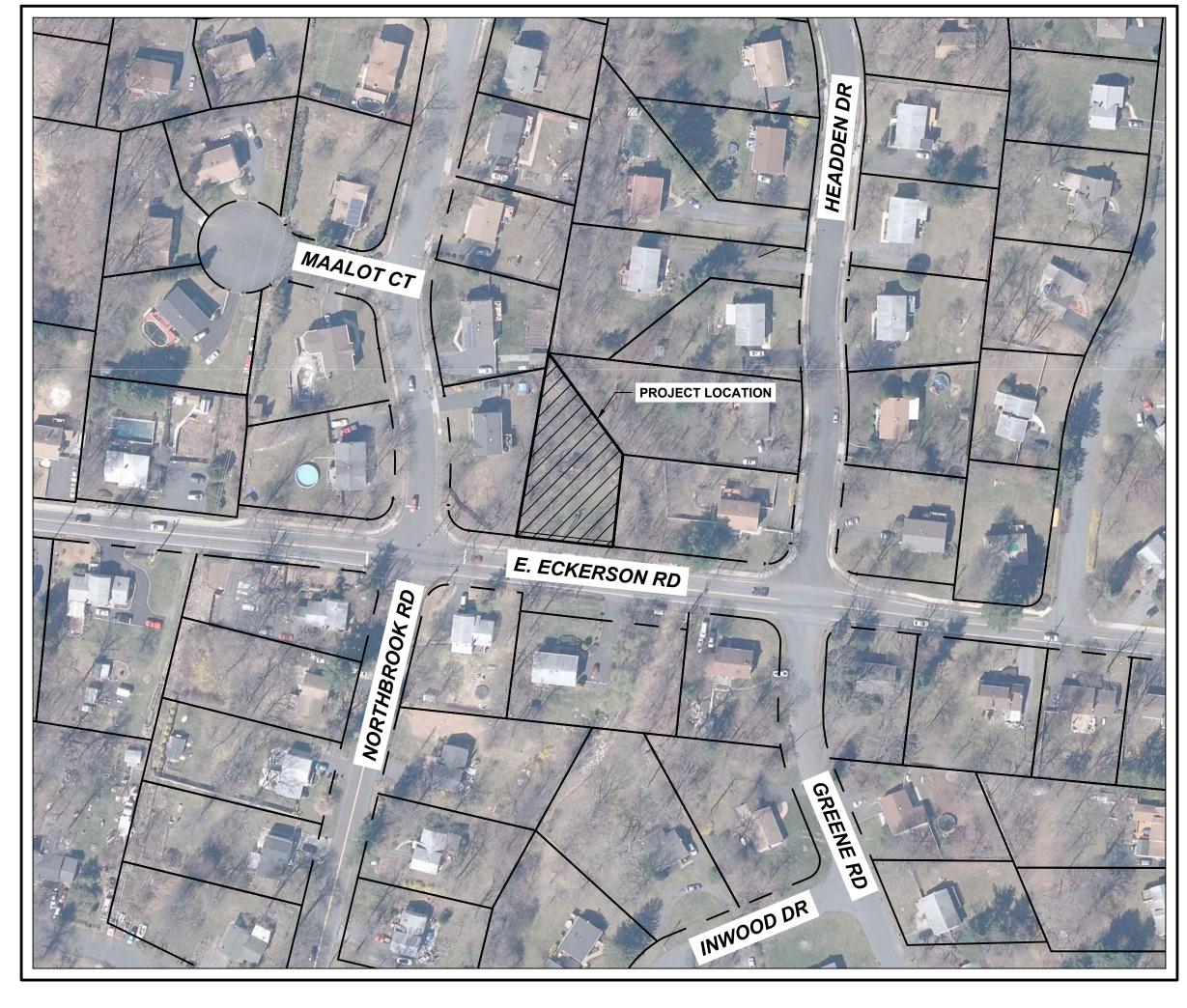


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3	EXISTING CONDITIONS PLAN	-
4	SITE AND YARD PIPING PLAN	-
5	LANDSCAPE & GRADING PLAN	-
6	PROCESS & INSTRUMENTATION DIAGRAM	-
7	EXISTING WELL 71 MODIFICATIONS	-
8	GAC TREATMENT BUILDING PLAN AND SECTIONS	-
9	PROCESS PIPING PLAN AND SECTIONS	-
10	GAC TREATMENT BUILDING ELEVATION VIEWS	-
11	ELECTRICAL PLAN	-
12	CONSTRUCTION DETAILS I	-
13	CONSTRUCTION DETAILS II	-
14	CONSTRUCTION DETAILS III	-
15	SOIL EROSION & SEDIMENT CONTROL PLAN	-

PUBLIC UTILITIES LIST									
GAS	ORANGE AND ROCKLAND UTILITIES								
WATER	SUEZ WATER NEW YORK								
SEWER	TOWNSHIP OF RAMAPO								
ELECTRICITY	ORANGE AND ROCKLAND UTILITIES								
COMMUNICATIONS	VERIZON								



CONSULTANT: ANDREW S. HOLT, PE NY PROFESSIONAL ENGINEER: 0.56 M 6000



PRELIMINARY SITE PLAN FOR SUEZ WATER NY PFAS COMPLIANCE ECKERSON WELL NO. 71

CITY OF SPRING VALLEY, TOWN OF RAMAPO, COUNTY OF ROCKLAND, STATE OF NEW YORK

REFERENCES:

1. TAX MAP - LOT 52, BLOCK 55.12, ON THE CURRENT TAX MAP OF THE TOWN OF RAMAPO, SHEET #55.12. 2. AERIAL IMAGERY - © NEARMAP US, INC. http://go.nearmap.com

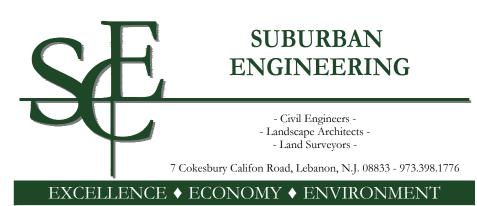
KEY MAP

SCALE: 1"=100'



PRELIMINARY SITE PLAN FOR SUEZ WATER NY PFAS COMPLIANCE **ECKERSON WELL NO. 71** CITY OF SPRING VALLEY, TOWN OF RAMAPO, COUNTY OF ROCKLAND, STATE OF NEW YORK

COVER SHEET



PROJECT NUMBER: SCE-12162.001 SHEET 1_OF_15_

REVISION -

LEGE	ND		<u>GENERAL NO</u>	DTES
EXISTING	PROPOSED		OWNER:	
W	W G	WATER MAIN (SIZES) GAS MAIN (SIZES)		
— <i>T U/G</i> ———	T	UNDERGROUND TELEPHONE LINE	APPLICANT :	
T O/H	Т О/Н	OVERHEAD TELEPHONE WIRE		
E	E	UNDERGROUND ELECTRICAL CONDUIT	1. THE SUBJEC	T PROPERTY I
O/H E	O/H E			
	UG/ U	UNDERGROUND COMBINED UTILITIES	2. THE SUBJEC	
		STORM DRAINS	ZONING: SCHOOL:	MEDIUM EAST RA
S	\$	SANITARY SEWERS	WATER: SEWER:	CLARKS CLARKS
FMS	FMS	FORCE MAINS	FIRE:	VALLEY
		PAVEMENT	3. HORIZONTAL	. DATUM BASE
		PROPERTY LINES	4. VERTICAL DA	ATUM IS BASE
		CURB LINES	5. PARTIAL BOU	
.XXX	X>		YORK, INC	PFAS COMPLI
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	GUIDE RAIL (STL.)	6. ALL UTILITIE	S WILL BE INS
		RETAINING WALL	7. ALL CONSTR	UCTION SHAL
		n		NTS SHALL CC
T. RESET REC	ONSTRUCT PRO	Ρ.	8. A PORTION C	F THE SUBJE
	\bowtie	"A" INLETS		RANCE PROGE BER 365340, LA
		"B" INLETS	9. WORK MAY E	
		"E" INLETS	MUST APPRO	VE EARLY ST
Ø				N CONSTRUCT
Ø	\otimes	MANHOLES	10. NO MATERIA	
MANHOLE CASTING - ARE FRAME, CIRCULAR				XCAVATIONS
ER	FRAME FOR EXIS	ST. INLETS WANHOLES	11. ALL CONSTR	
EXIST.	PROP.		ON-SITE ENG	INEER, AND T
\boxtimes	\boxtimes	RADIAL PINS		REMENTS & F
D	•	MONUMENTS	12. THE CONTRA PLANNING, Z	CTOR SHALL
	-		13. BUILDING PE	
0	• 	IRON PIPE/PIN		G & FACILITIES
\oslash	- • -	TEST PIT / SOIL BORING	14. NO BUILDING	
• W.V.	● W.V.	WATER VALVE		N AUTHORIZA
\bowtie	×	WATER GATE VALVE	15. ALL EXISTING CONSTRUCT	
G .V.	● G.V.	GAS VALVE	16. SUEZ WATER	
	•			RING & FACILI
Q	€.	HYDRANT	17. ALL TRAFFIC	
POLE NO. EXIST.		UTILITY POLES	CONTROL DE	VICES.
	PROPOSED	SIGNS	18. PRIOR TO AN CALL 811	Y EXCAVATIO
(minis	Lund	BUSHES/TREELINE		
X	×	LIGHTS		
\sim			1. THE CONTRA	ACTOR MUST
EX. BLDG.		PROP. BLDG.		COUNTY STAN
<u>kaanaa</u>			2. THE TRENCH	
		BLDG. TO BE DEMOLISHED	CONSTRUCT	TION DETAILS
			3. AVOID DISTU	
ATA .		DECIDUOUS TREES	4. PERFORM "S	SOIL FROSION
K S		Becidoods TREES	REPRESENT	ATIVE AS CAL
*	*	CONIFEROUS TREES		D BY ACTUAL PAYMENT WIL
-DX			5. THE CONTRA	
		WETLANDS FLAG		ONTROL MEA
I	I		DEPOSITION	
			6. MAINTAIN W	
				CE BY WORK (
			7. DISPOSE OF	ALL WARTE

- REF
- 1 #50.15.
- 2. ORTHOPHOTOGRAPHY NY STATEWIDE DIGITAL ORTHOIMAGERY PROGRAM (NYSDOP) DATA (2000-2018), NYS ITS GIS PROGRAM OFFICE, AND U.S. GEOLOGICAL SURVEY NATIONAL AERIAL PHOTOGRAPHY PROGRAM (1994-1999), NAD83(2011) NY EAST STATE PLANE FEET: 1220 WASHINGTON AVENUE, BUILDING 5 - FLOOR 1, ALBANY, NY, 12226, US. https://orthos.dhses.ny.gov/#
- 3. AERIAL IMAGERY © NEARMAP US, INC. http://go.nearmap.com
- 4. FILED MAP "FINAL SUBDIVISION PLAT KERBER PARK TOWN OF RAMAPO, ROCKLAND COUNTY, NEW YORK" PREPARED BY OSTERTAG AND MCDOUGALL ENGINEERS AND SURVEYORS, DATED JUNE 1970, LAST REVISED MARCH 15, 1971 AND FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE ON APRIL 13, 1971 AS MAP NO. 4131.
- 5. FILED MAP "SUBDIVISION PLAT ECKERSON TERRACE SECTION 2B, TOWN OF RAMAPO, ROCKLAND COUNTY, NEW YORK" PREPARED BY OSTERTAG AND MCDOUGALL ENGINEERS AND SURVEYORS. DATED JANUARY 1974. LAST REVISED SEPTEMBER 15. 1975 AND FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE ON DECEMBER 1. 1975 AS MAP NO. 4686.
- 6. SITE PLAN "SPRING VALLEY WATER COMPANY INCORPORATED, SPRING VALLEY, N.Y. -ECKERSON RD. WELL, RAMAPO, N.Y.", DATED DECEMBER 1972, LAST REVISED DECEMBER 1974 AS REVISION "REVISED 'AS BUILT'".

UNITED WATER NEW YORK INC. 123 EAST ECKERSON ROAD RAMAPO, NY 10977

SUEZ WATER NEW YORK INC. 162 OLD MILL ROAD WEST NYACK, NY 10994

Y IS KNOWN AS LOT 51 , BLOCK 2 AS SHOWN ON THE TOWN OF RAMAPO TAX MAP SHEET # 50.15.

Y CONTAINS 2.642 ACRES (115,104 SF), AND IS SITUATED IN FOLLOWING DISTRICTS:

JM DENSITY RESIDENTIAL - 15,000 SQ.FT. PER LOT (R-15) RAMAPO CENTRAL SCHOOL DISTRICT KSTOWN CONSOLIDATED WD011, SUPPLIED BY SUEZ WATER COMPANY KSTOWN MSD SD012 EY COTTAGE, WEST NYACK FD015

SED ON NAD-83 (2011), PER GPS SATELLITE OBSERVATION.

ED ON NAVD-88, PER GPS SATELLITE OBSERVATION.

OPOGRAPHIC SURVEY REFERENCED FROM SUBURBAN ENGINEERING, ENTITLED "SUEZ WATER NEW LIANCE - ECKERSON #71" DATED MARCH 30, 2021.

ISTALLED UNDERGROUND.

ALL BE IN ACCORDANCE WITH THE TOWN OF RAMAPO STANDARDS AND SPECIFICATIONS, AND ALL ECT TO REVIEW BY THE CONSTRUCTION CODE OFFICIAL. THE CONSTRUCTION OF ALL SITE COMPLY WITH THE NEW YORK STATE CONSTRUCTION CODE.

IECT PROPERTY IS SUBJECT TO FLOODING FROM THE 100 YEAR STORM, BASED ON THE NATIONAL GRAM, FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF RAMAPO, PANEL 94 OF 207, COMMUNITY LAST REVISED MARCH 3, 2014.

MED MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 8:00 AM AND 5:00 PM. THE TOWN AND OWNER STARTS AND WORK ON SATURDAYS, SUNDAYS AND HOLIDAYS. THE COST FOR INSPECTION SERVICES CTION DEPARTMENT OR THE OWNER/APPLICANT ENGINEER BEYOND NORMAL WORK DAYS AND HOURS BILITY OF THE CONTRACTOR.

MENT IS TO BE STORED ON ANY AREA THAT HAS NOT BEEN ESTABLISHED AS A DESIGNATED STAGING S SHALL BE PROTECTED AT THE END OF EACH WORK DAY. THE CONTRACTOR IS RESPONSIBLE FOR **AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS BY THE CONTRACTOR.**

TERIALS, PRODUCTS, HOURS OF OPERATION, ETC. SHALL BE IN ACCORDANCE WITH THE OWNER, THE THE TOWN OF RAMAPO. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL AS-BUILT SURVEYS PER FOR THE OWNER.

L BE RESPONSIBLE TO OBTAIN ALL LOCAL BUILDING PERMITS. THE OWNER WILL OBTAIN ALL LAND DISTURBANCE PERMITS, IF DEEMED NECESSARY.

L SHOW LOWEST FLOOR ELEVATIONS SUBJECT TO APPROVAL AND INSPECTION BY DEPARTMENT OF ES MAINTENANCE.

R A BUILDING SUBJECT TO SITE PLAN APPROVAL SHALL BE ISSUED BY THE BUILDING INSPECTOR ZATION OF AND IN CONFORMITY WITH THE SITE PLAN APPROVED BY THE RAMAPO PLANNING BOARD.

I DENOTED "TO REMAIN" OR "TO BE REMOVED" SHALL REMAIN AND BE PROTECTED THROUGHOUT

(SWNY) SHALL CONFORM TO SOIL EROSION AND SEDIMENT CONTROL PLAN ON FILE IN DEPARTMENT LITIES MAINTENANCE.

DEVICES SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC

ION, CONTRACTOR MUST HAVE ALL UTILITIES MARKED OUT BY THE APPROPRIATE UTILITY COMPANIES ->

GENERAL ENVIRONMENTAL NOTES:

T PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PROVISIONS AND CONDITIONS OF THE ANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.

ON MAY BE NO WIDER THAN NECESSARY TO COMPLY WITH OSHA SAFETY STANDARDS AND THE S UNDER THE ACTUAL SURFACE AND SUBSURFACE CONDITIONS AS MAY BE ENCOUNTERED DURING

F NATURAL VEGETATION DURING CLEARING OPERATIONS TO THE GREATEST EXTENT PRACTICABLE.

ON AND SEDIMENT CONTROL" AS DIRECTED BY THE ENGINEER OR SOIL CONSERVATION AGENCY ALLED FOR ON THE PLANS. PERFORM WORK IN ACCORDANCE WITH THE SPECIFICATIONS AS MAY BE AL FIELD CONDITIONS AND THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION. NO ILL BE MADE FOR ADJUSTMENTS, ADDITIONAL MATERIALS AND MAINTENANCE OF THIS WORK.

BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND REPAIR OF SOIL EROSION AND EASURES IN ACCORDANCE WITH THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PERMIT. INSIBLE FOR ANY DAMAGES OR REMEDIATION REQUIRED DUE TO EROSION OR DOWNSTREAM SEDIMENT

I THE DESIGNATED LIMITS OF DISTURBANCE AS DELINEATED AND NOTED ON THE PLANS. RESTORE ANY K CONDUCTED OUTSIDE THOSE LIMITS AT NO ADDITIONAL EXPENSE TO THE OWNER.

E, DEBRIS, AND UNSUITABLE EXCAVATED MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS, THE ES AND REGULATIONS.

- FITTINGS, AND VALVES IN THE RANGE OF SIZES AS MAY EXIST.

1. COORDINATE ALL WATER SYSTEM CONNECTIONS, SHUT DOWNS, OR OTHER SYSTEM RELATED OPERATIONS WITH THE OWNER AND NOTIFY AFFECTED RESIDENCES AND BUSINESSES A MINIMUM OF ONE WEEK PRIOR TO THE SCHEDULED DATE FOR SAID SHUT DOWN OPERATIONS. ONLY SUEZ PERSONNEL SHALL OPERATE EXISTING VALVES AND HYDRANTS. THE CONTRACTOR MUST PROVIDE WRITTEN NOTIFICATION OF THE START OF CONSTRUCTION TO PROPERTY OWNERS WITHIN THE PROJECT LIMITS 72 HOURS PRIOR TO CONSTRUCTION OPERATIONS AND 72 HOURS PRIOR TO OPERATIONS THAT MAY AFFECT PROPERTY ACCESS.

MECHANICAL CODE, LATEST EDITIONS.

	NOTICE THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR USE ONLY BY THE PARTY FOR WHOM THE WORK WAS CONTRACTED OR TO WHOM IT IS CERTIFIED. THIS DRAWING MAY NOT BE <u>COPIED</u> , <u>REUSED</u> , <u>DISCLOSED</u> , <u>DISTRIBUTED</u> , OR <u>RELIED UPON</u> FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF SUBURBAN ENGINEERING ELECTRONIC SUBMISSIONS NOT CONTAINING A VALID DIGITAL SEAL OR PAPER COPIES NOT CONTAINING A RAISED SEAL ARE NOT ORIGINALS AND MAY HAVE BEEN ALTERED.						DRAWN BY: CHECKED BY: CHECKED BY:	SE
	© COPYRIGHT 2021 SUBURBAN ENGINEERING	DESCRIPTION	NO.	DATE:	BY:	CHK:		7 Cokesbur
TE:XX/XX/2021	ALL RIGHTS RESERVED	REVISIO	NS					EXCELLENCE ♦ ECC

GENERAL WATER MAIN CONSTRUCTION NOTES:

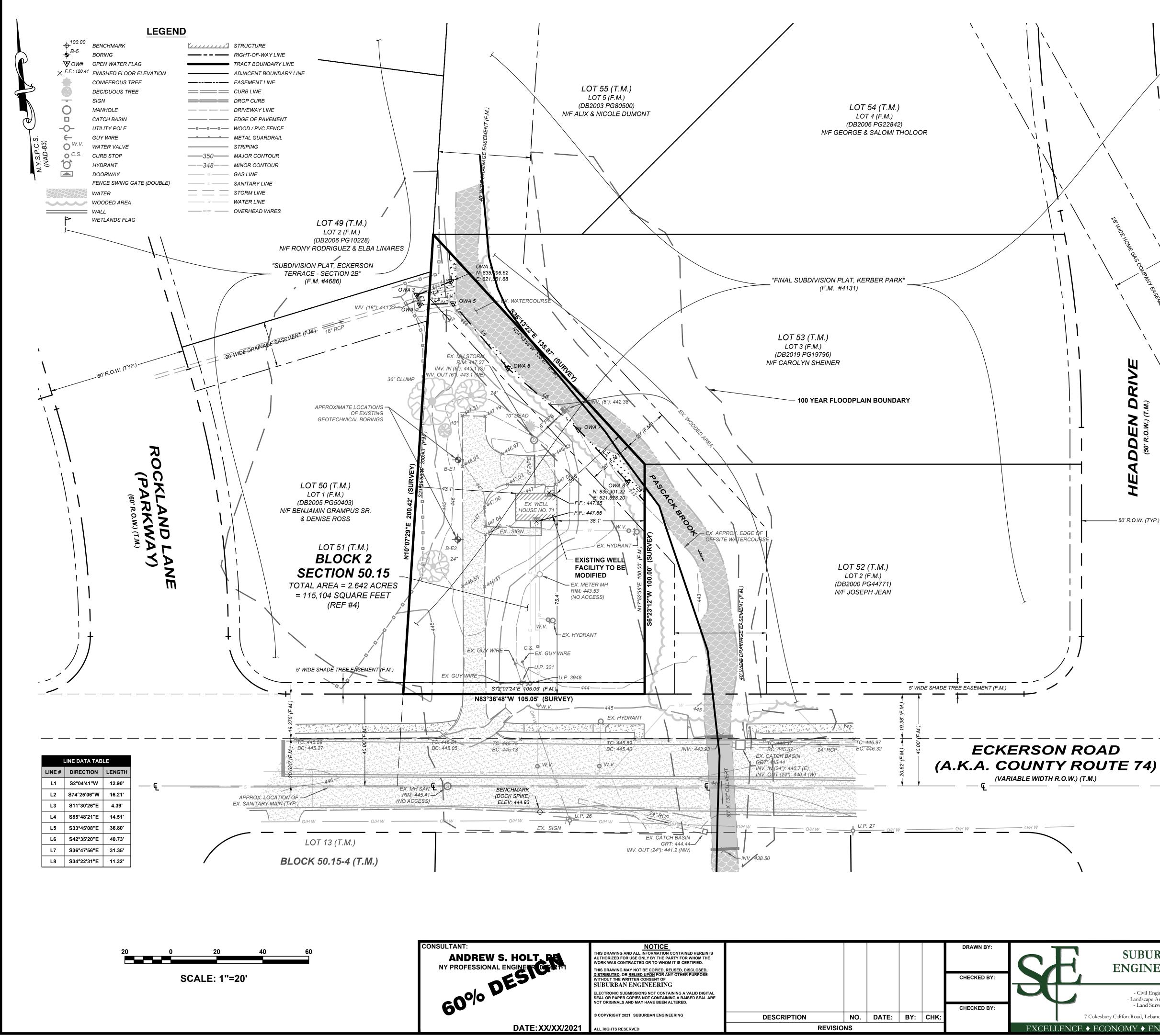
1. USE DUCTILE IRON RESTRAINED JOINT FITTINGS WITH MANUFACTURER RETAINER GLANDS ACCORDING TO THE CONTRACT DOCUMENTS. RESTRAIN ALL BENDS, TEES, VALVES, PLUGGED ENDS, ETC. IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

2. SIZE AND LOCATION OF EXISTING MAINS TO WHICH CONNECTIONS ARE BEING MADE ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE CONTRACTOR MUST BE PREPARED TO ACCOMMODATE CHANGES IN THE SIZE OR LOCATION OF THE CONNECTION BY MAINTAINING AT THE JOB SITE, ADDITIONAL PIPE,

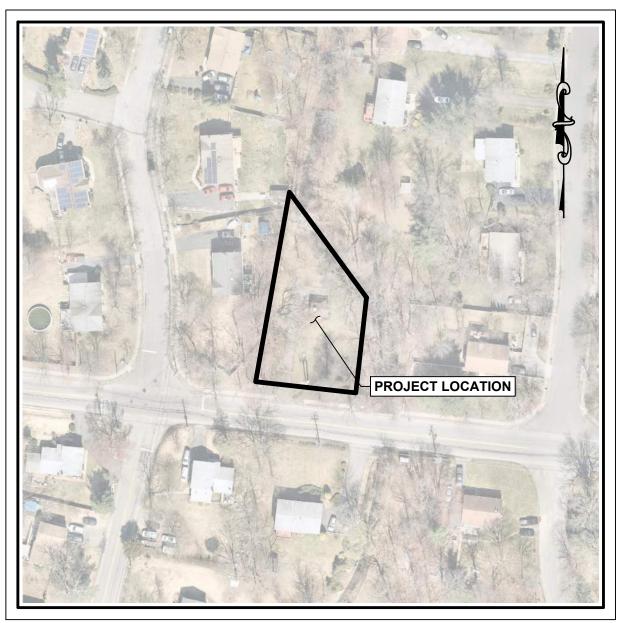
GENERAL CONSTRUCTION NOTES:

2. CONSTRUCTION SHALL CONFORM TO APPROPRIATE SECTIONS OF: 1) NATIONAL ELECTRICAL CODE; 2) NATIONAL STANDARD PLUMBING CODE; AND 3) INTERNATIONAL

SUBURBAN ENGINEERING	S	PRELIMINARY SITE PLAN FOR SUEZ WATER NY PFAS COMPLIANCE ECKERSON WELL NO. 71	PROJECT NUMBER: SCE-12162.001
		G VALLEY, TOWN OF RAMAPO, COUNTY OF ROCKLAND, STATE OF NEW YORK	SCALE:
- Civil Engineers - - Landscape Architects - - Land Surveyors -	FOR CLIENT:	SUEZ WATER NEW YORK INC.	N.T.S.
ry Califon Road, Lebanon, N.J. 08833 - 973.398.1776		GENERAL NOTES	SHEET 2_OF 15
DNOMY ♦ ENVIRONMENT		REVISION -	



	NOTICE						DRAWN BY:	ļ
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•	ELECTRONIC SUBMISSIONS NOT CONTAINING A VALID DIGITAL SEAL OR PAPER COPIES NOT CONTAINING A RAISED SEAL ARE NOT ORIGINALS AND MAY HAVE BEEN ALTERED.							
							CHECKED BY:	
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DATE:XX/XX/2021	ALL RIGHTS RESERVED	REVISIO	NS					EXCELLENCE ♦



<u>REFERENCE</u> - NYSDOP 2016, TILES e_06210834, e_06210836.

KEY MAP SCALE: 1"=100'

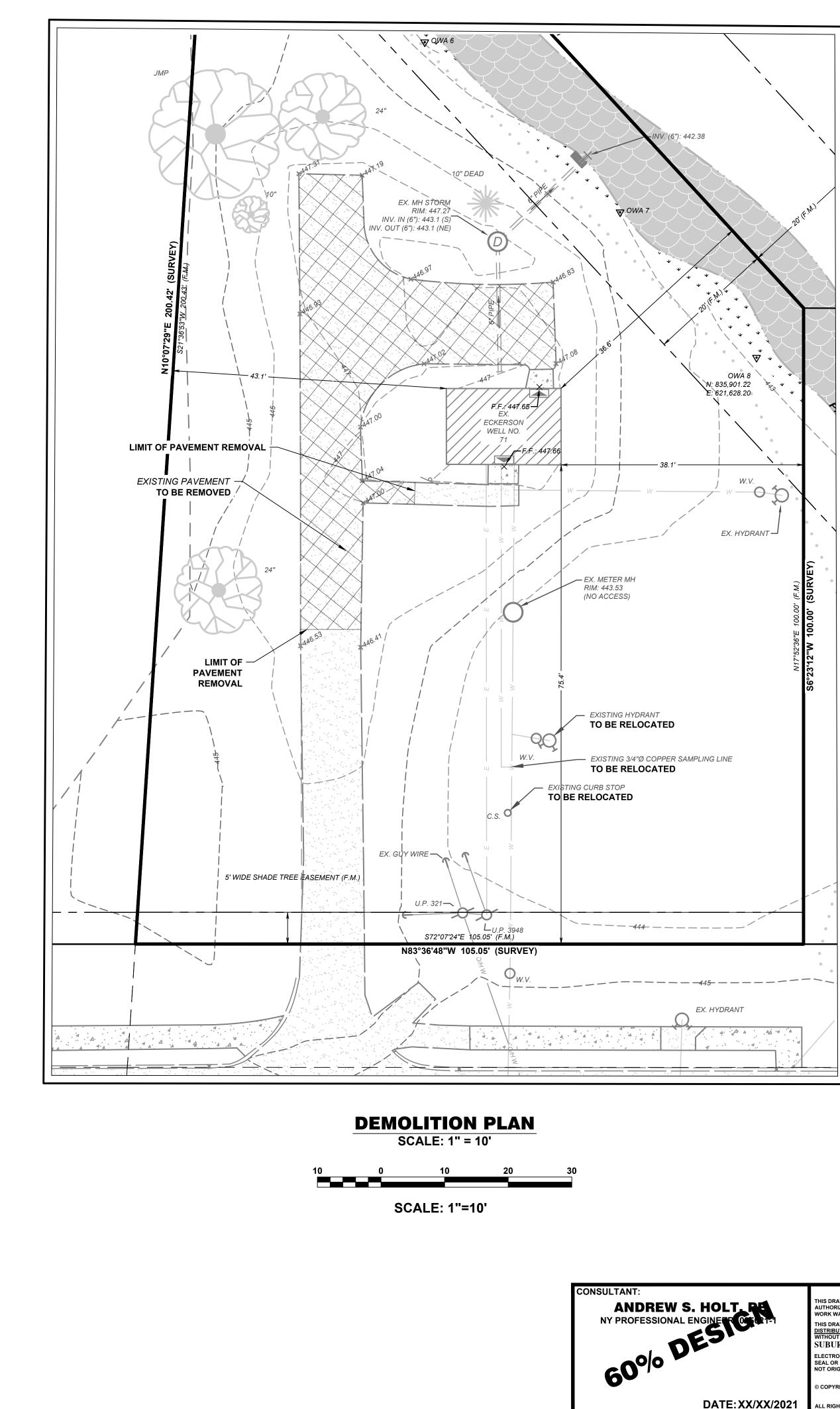
REFERENCES:

- 1. TAX MAP LOT 51, BLOCK 2, ON THE CURRENT TAX MAP OF THE TOWN OF RAMAPO, SHEET #50.15.
- 2. ORTHOPHOTOGRAPHY NY STATEWIDE DIGITAL ORTHOIMAGERY PROGRAM (NYSDOP) DATA (2000-2018), NYS ITS GIS PROGRAM OFFICE, AND U.S. GEOLOGICAL SURVEY NATIONAL AERIAL PHOTOGRAPHY PROGRAM (1994-1999), NAD83(2011) NY EAST STATE PLANE FEET: 1220 WASHINGTON AVENUE, BUILDING 5 - FLOOR 1, ALBANY, NY, 12226, US. https://orthos.dhses.ny.gov/#
- 3. AERIAL IMAGERY © NEARMAP US, INC. http://go.nearmap.com
- 4. FILED MAP "FINAL SUBDIVISION PLAT KERBER PARK TOWN OF RAMAPO, ROCKLAND COUNTY, NEW YORK" PREPARED BY OSTERTAG AND MCDOUGALL ENGINEERS AND SURVEYORS, DATED JUNE 1970, LAST REVISED MARCH 15, 1971 AND FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE ON APRIL 13, 1971 AS MAP NO. 4131.
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- 6. SITE PLAN "SPRING VALLEY WATER COMPANY INCORPORATED, SPRING VALLEY, N.Y. ECKERSON RD. WELL, RAMAPO, N.Y.", DATED DECEMBER 1972, LAST REVISED DECEMBER 1974 AS REVISION "REVISED 'AS BUILT".
 - NOTES
 - 1. THIS SURVEY IS PREPARED IN ACCORDANCE WITH DOCUMENTS SUPPLIED BY THE CLIENT AND SUPPLEMENTAL INFORMATION OBTAINED BY SUBURBAN ENGINEERING. THROUGH LIMITED RECORDS RESEARCH. THE DOCUMENTS USED DO NOT REPRESENT A COMPLETE TITLE SEARCH OF THE SUBJECT PROPERTY AND MAY OR MAY NOT BE ALL THE RELEVANT TITLE DOCUMENTS FOR THE SUBJECT PROPERTY.
 - 2. SUBJECT TO ALL EASEMENTS, RESTRICTIONS, RIGHTS OF WAY, AND EXCEPTIONS OF RECORD.
 - 3. SUBJECT PROPERTY IS KNOWN AS LOT 51, BLOCK 2, SECTION 50.15 AS SHOWN ON THE TAX MAP OF THE TOWN OF RAMAPO, ROCKLAND COUNTY, NEW YORK, SHEET 50.15.
 - 4. AREA = 115,104 SF OR 2.642 ACRES
 - 5. THIS MAP AND SURVEY WERE PREPARED FROM INFORMATION FURNISHED AND/OR OBTAINED TOGETHER WITH EVIDENCE FOUND ON THE GROUND AND IS SUBJECT TO SUCH FACTS THAT AN ACCURATE TITLE SEARCH MAY REVEAL.
 - 6. LOCATION OF UNDERGROUND UTILITIES, IF DEPICTED, ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE AND ACCESSIBLE AT THE TIME OF THE SURVEY. THE LACK OF UTILITY INFORMATION DOES NOT DENY THE EXISTENCE OF SAME AND SUBURBAN CONSULTING ENGINEERS, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. REFERENCE TO THE APPROPRIATE UTILITY AUTHORITY SHOULD BE MADE TO VERIFY THE PRESENCE OR ABSENCE OF UTILITIES.
 - THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
 - 8. OPEN WATER FLAGS AS DEPICTED HEREON ARE PLACED BY SUBURBAN CONSULTING ENGINEERS, INC. (FLANDERS, NJ). THIS SITE ONLY CONTAINS AN OPEN WATERCOURSE, NO WETLANDS ARE PRESENT.
 - 9. HORIZONTAL DATUM BASED ON NAD-83 (2011), PER GPS SATELLITE OBSERVATION.
 - 10. VERTICAL DATUM IS BASED ON <u>NAVD-88</u>, PER GPS SATELLITE OBSERVATION.
 - 11. DATUM SHOWN HEREON PER GPS SATELLITE OBSERVATION AND SOLUTIONS PROVIDED REAL TIME BY KEYNET GPS, INC. WHICH UTILIZES TRIMBLE VIRTUAL REFERENCE SYSTEM CONTINUALLY OPERATING HIGH PRECISION GNSS REFERENCE STATIONS. DATUM PROVIDED IS NAD 83 (2011) / NAVD 88 NEW YORK STATE PLANE COORDINATE SYSTEM EAST, ZONE 3101.
 - 12. CONDITIONS DEPICTED HEREON PER ACTUAL FIELD INSTRUMENT SURVEY PERFORMED MARCH 25, 2021.
 - 13. MISSING PROPERTY CORNERS NOT SET AT THIS TIME, PER CONTRACTUAL AGREEMENT.

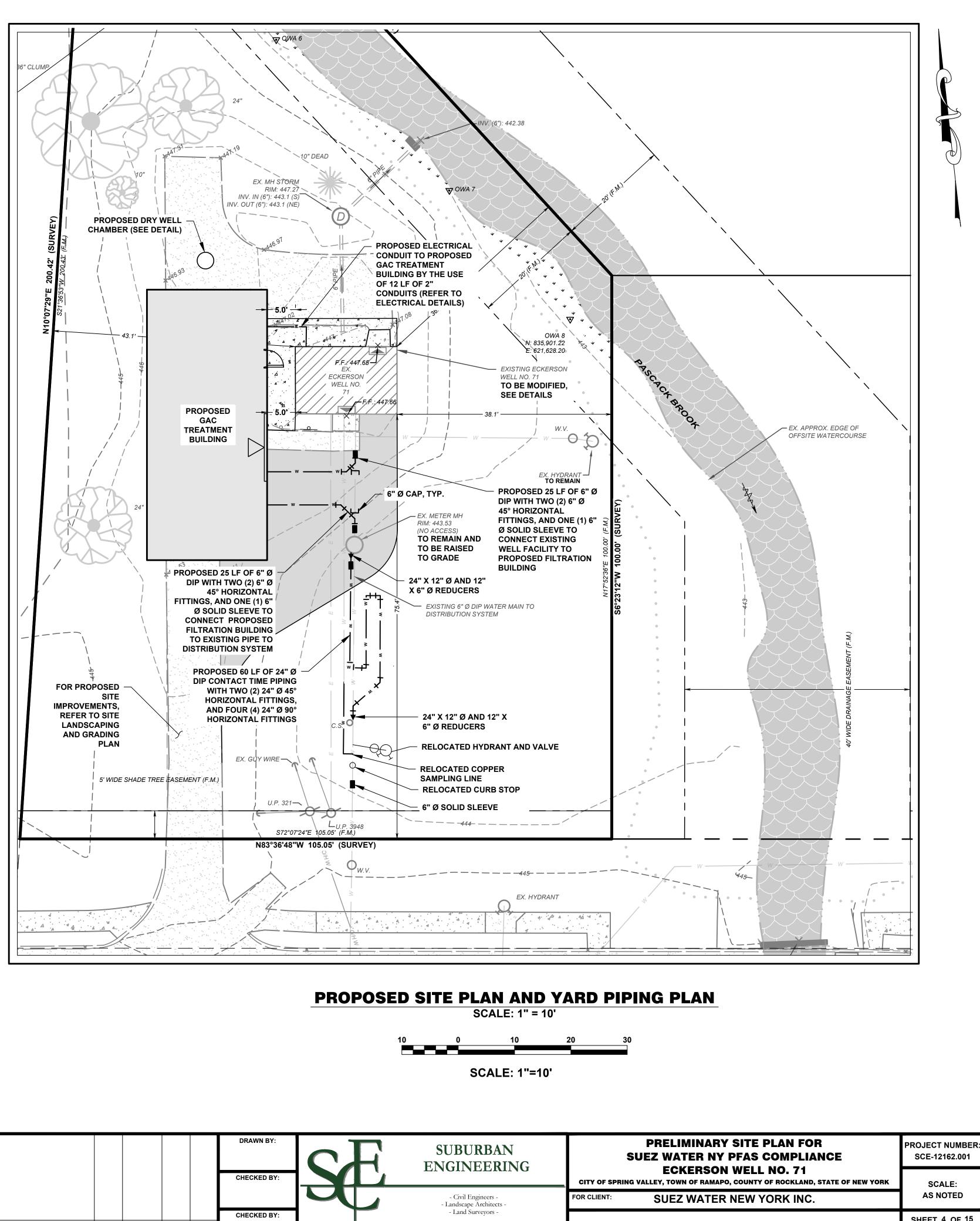
SUBURBAN ENGINEERING	5	PRELIMINARY SITE PLAN FOR SUEZ WATER NY PFAS COMPLIANCE ECKERSON WELL NO. 71	PROJECT NUMBER: SCE-12162.001	
	CITY OF SPRIN	SCALE:		
- Civil Engineers - - Landscape Architects -	FOR CLIENT:	SUEZ WATER NEW YORK INC.	AS NOTED	
- Land Surveyors - okesbury Califon Road, Lebanon, N.J. 08833 - 973.398.1776		EXISTING CONDITIONS PLAN	SHEET <u>3</u> OF <u>15</u>	
ECONOMY ♦ ENVIRONMENT		REVISION -		

_ _ _ _ _ _ _ _ _ _ _ _

– 50' R.O.W. (TYP.) –



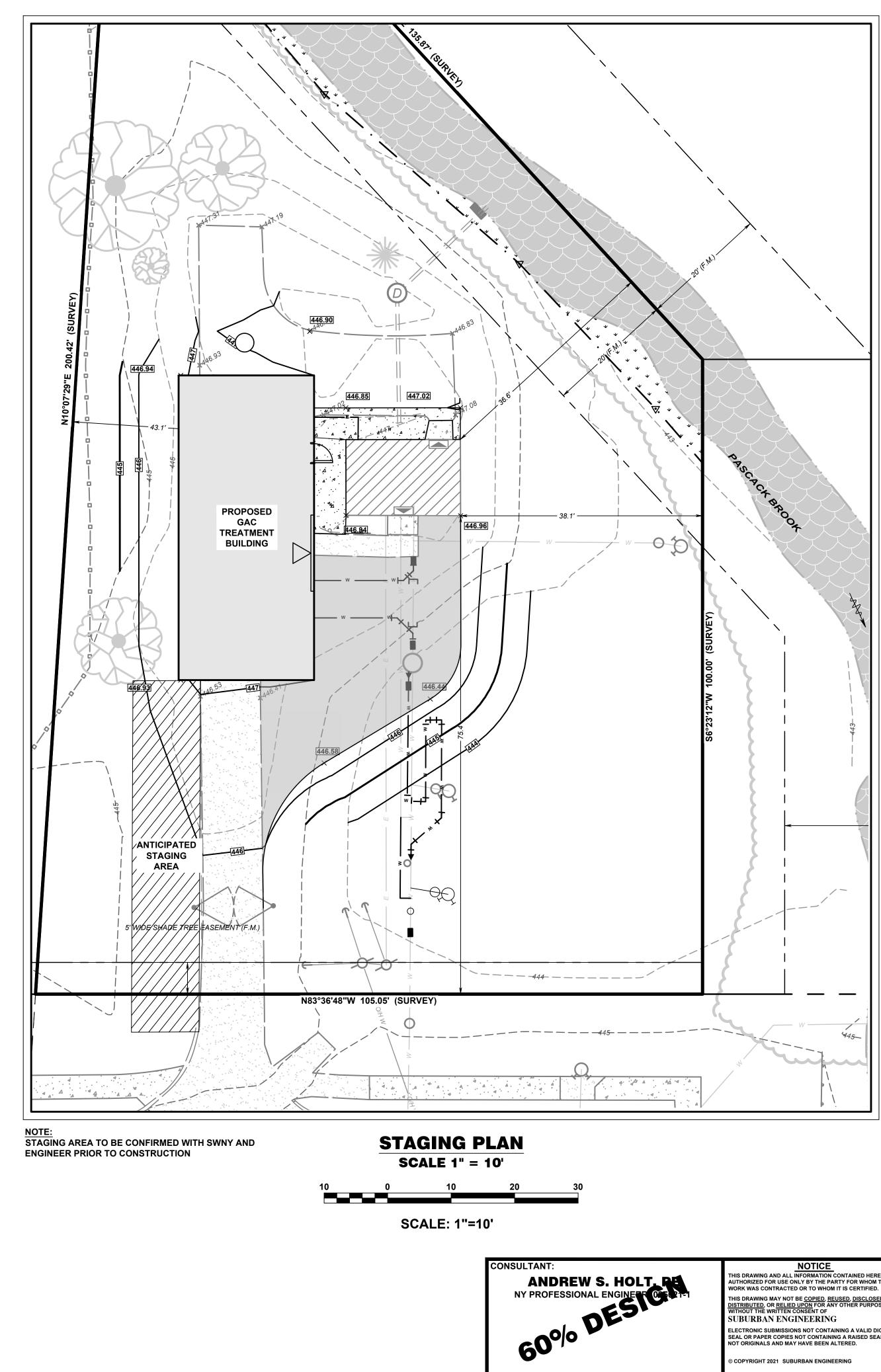
	NOTICE THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR USE ONLY BY THE PARTY FOR WHOM THE WORK WAS CONTRACTED OR TO WHOM IT IS CERTIFIED.						DRAWN BY:	CF	
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ATE:XX/XX/2021	ALL RIGHTS RESERVED	REVIS	ONS					EXCELLENCE	
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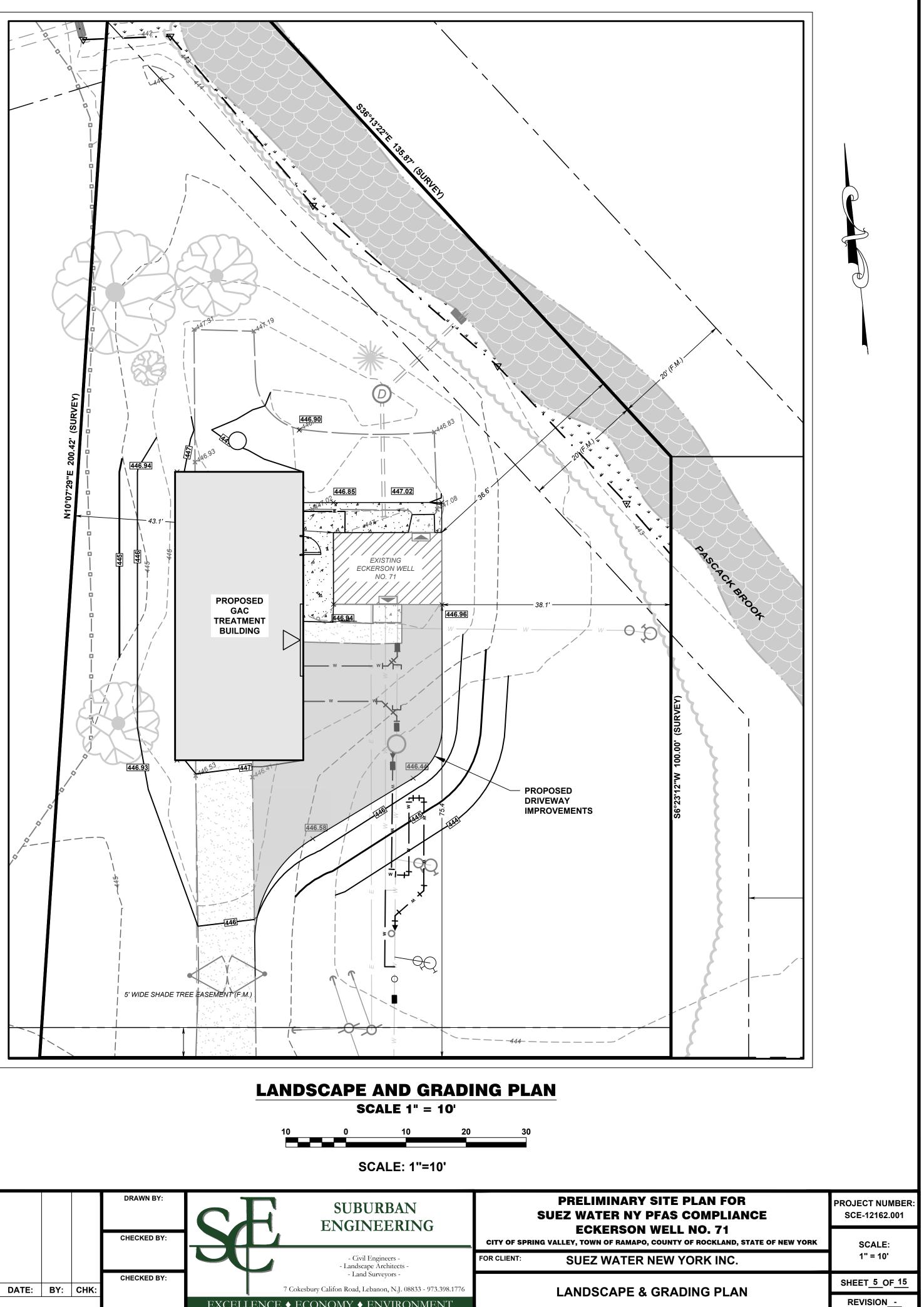


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SITE AND YARD PIPING PLAN

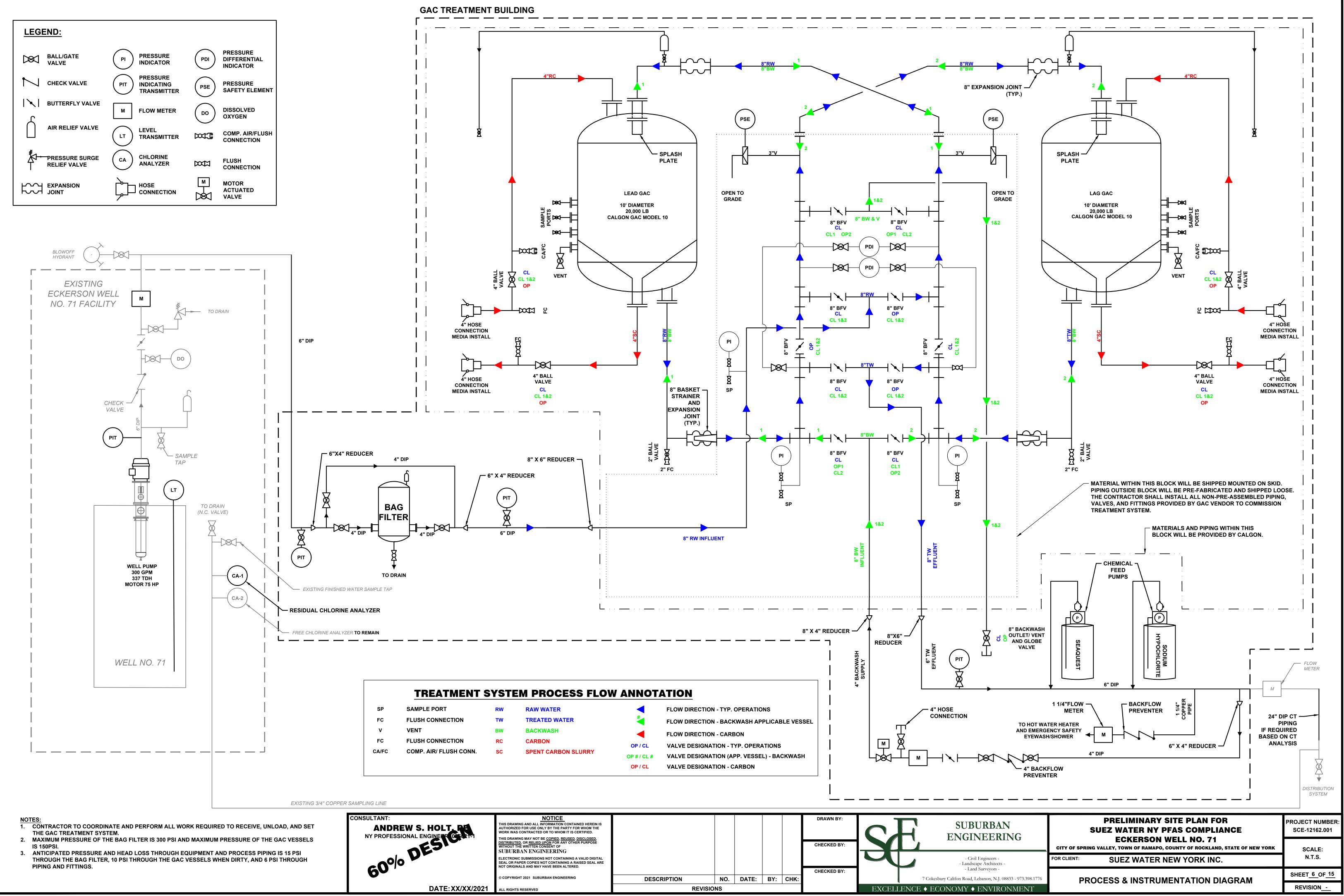
SHEET<u>4</u>OF<u>15</u> REVISION -

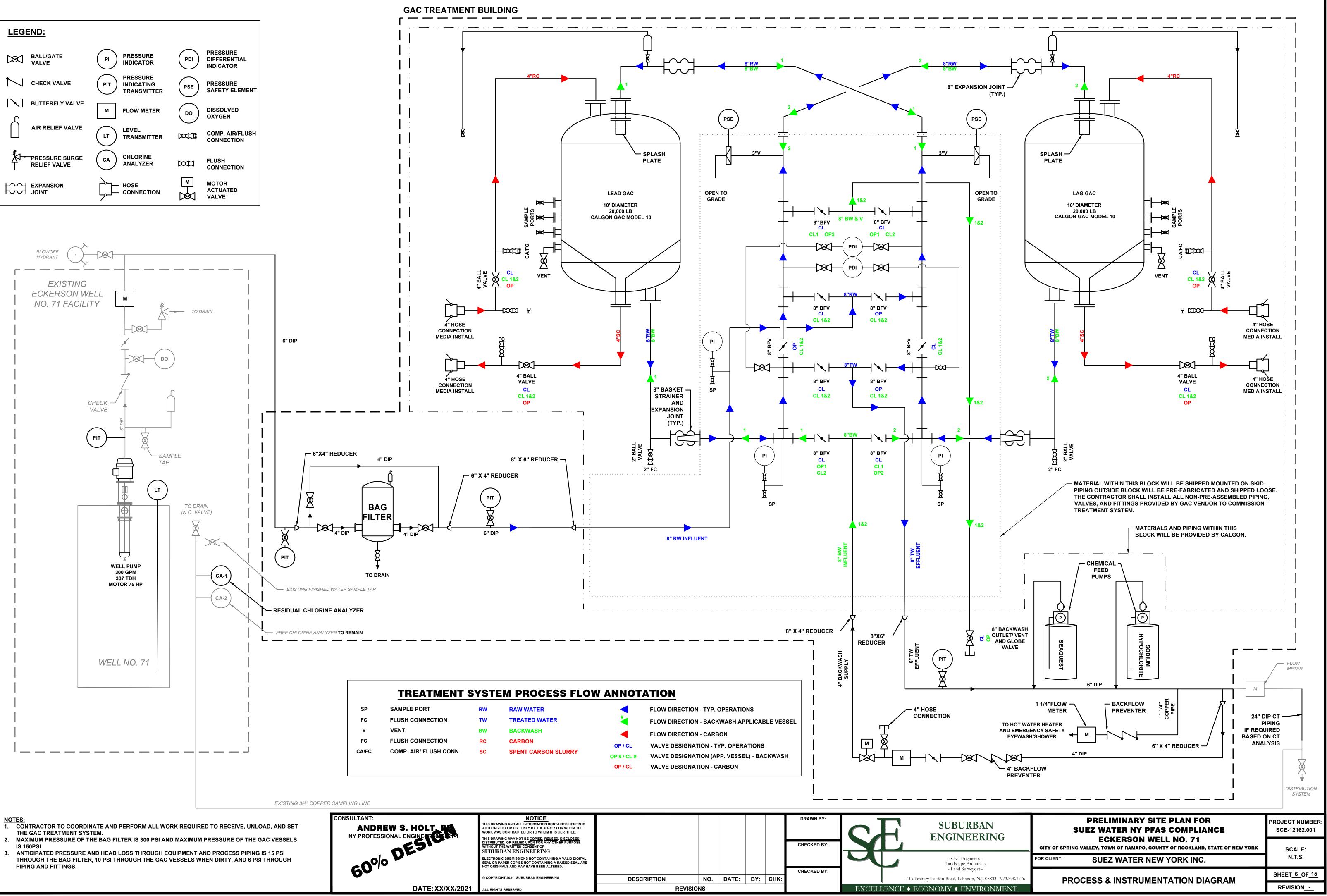




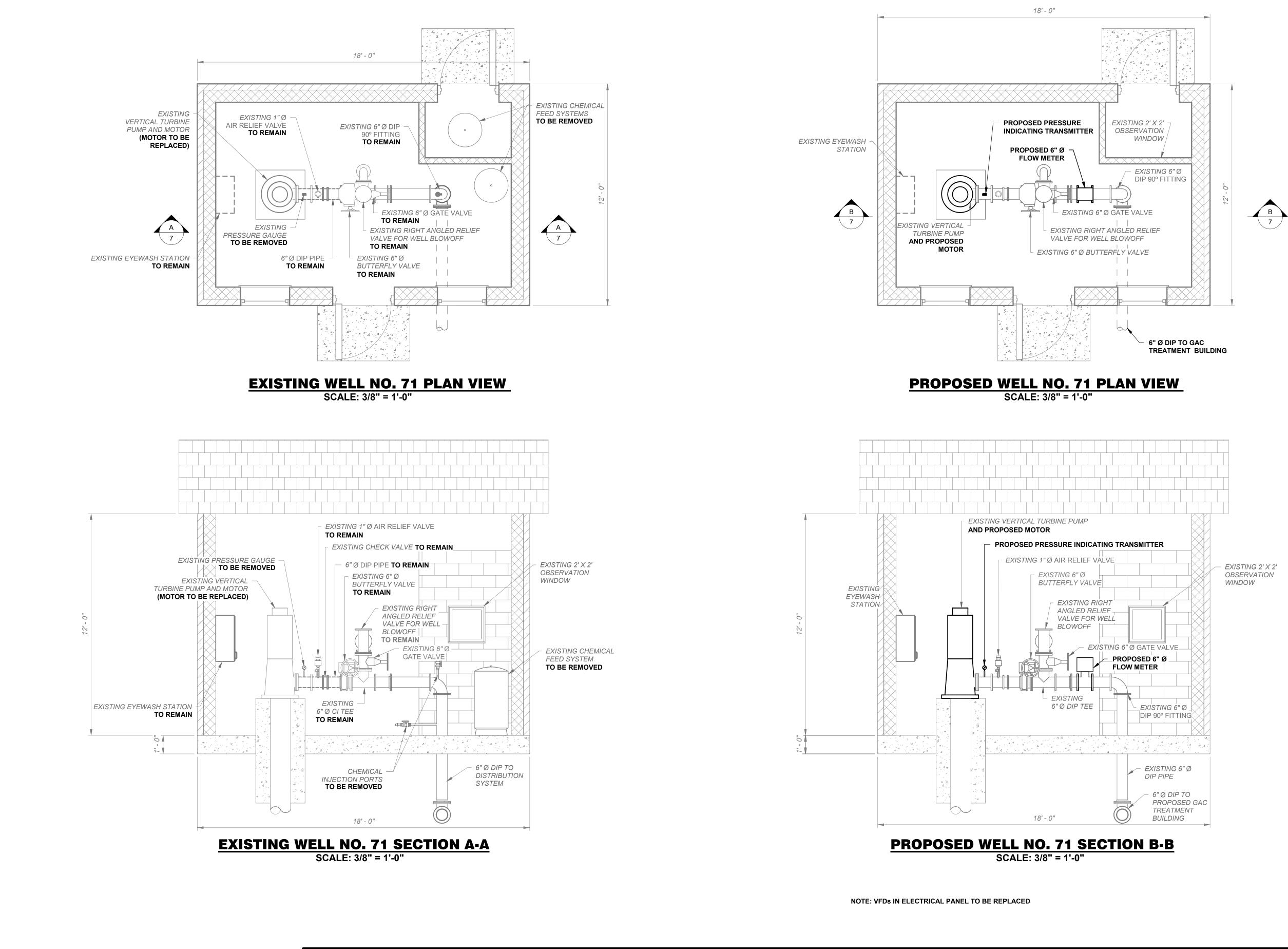


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	ELECTRONIC SUBMISSIONS NOT CONTAINING A VALID DIGITAL SEAL OR PAPER COPIES NOT CONTAINING A RAISED SEAL ARE NOT ORIGINALS AND MAY HAVE BEEN ALTERED.						CHECKED BY:			- Civil Engineers - - Landscape Architects - - Land Surveyors -
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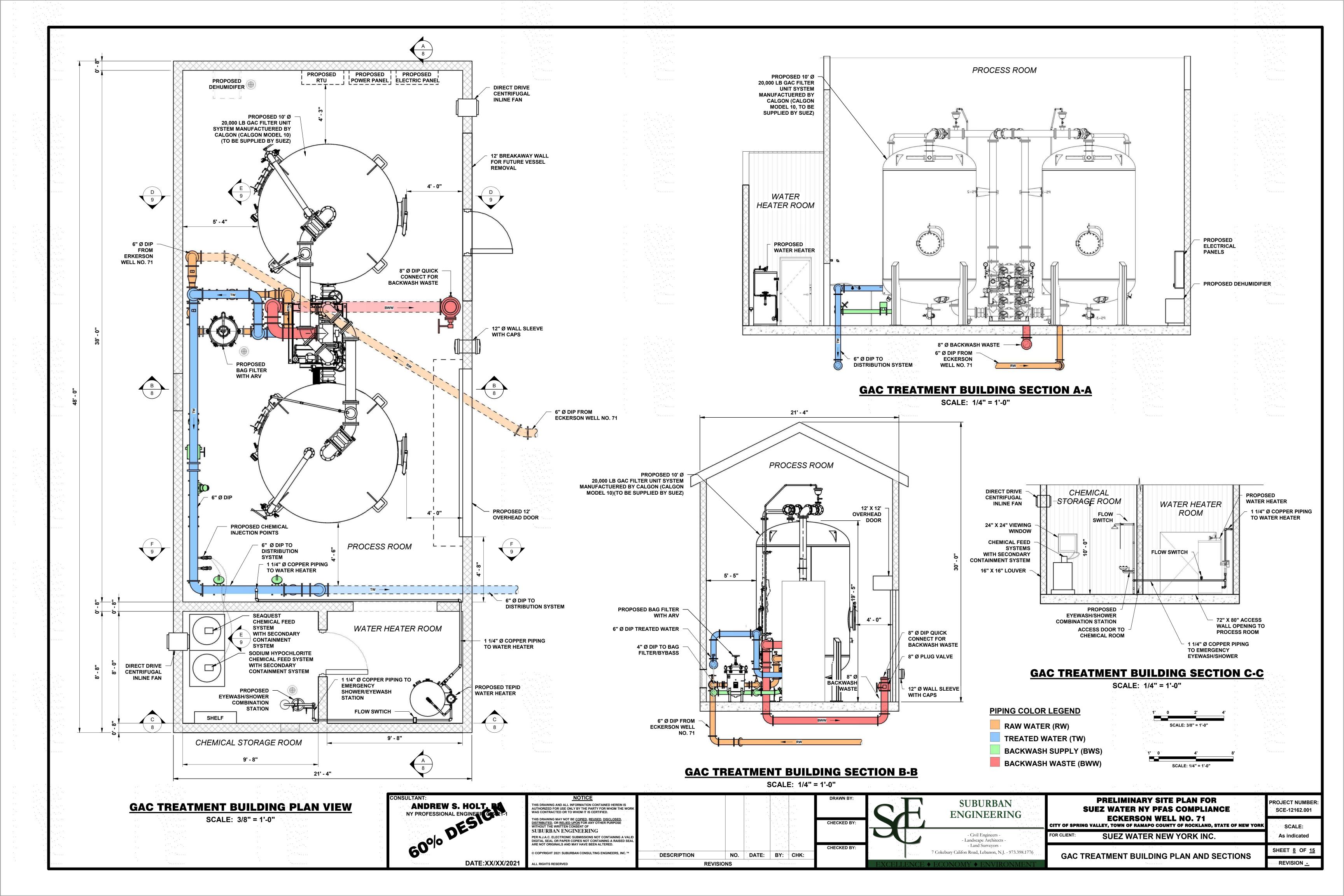


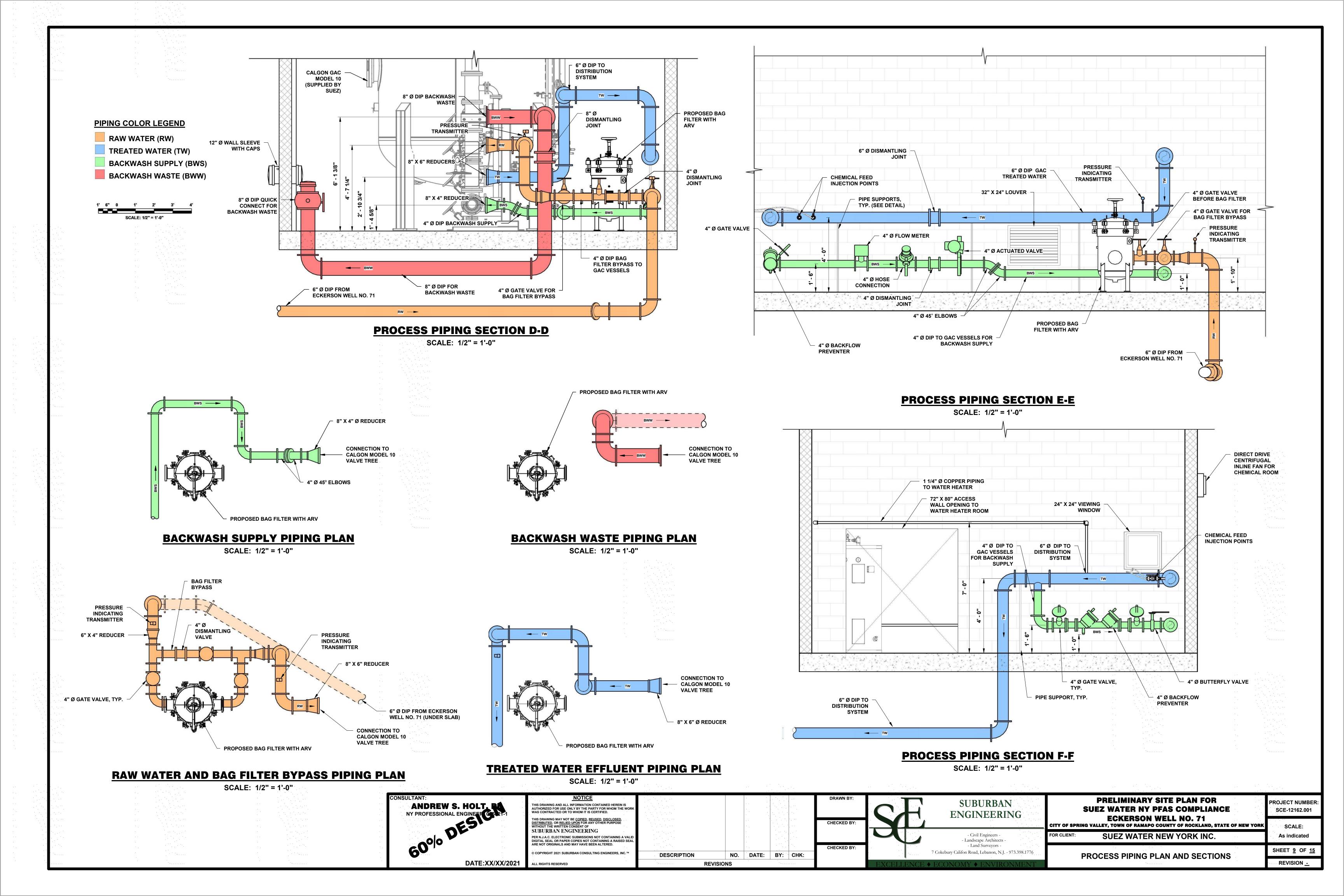
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	COPTRIGHT 2021 SUBURDAN ENGINEERING	DESCRIPTION	NO.	DATE:	BY:	CHK:		7 6
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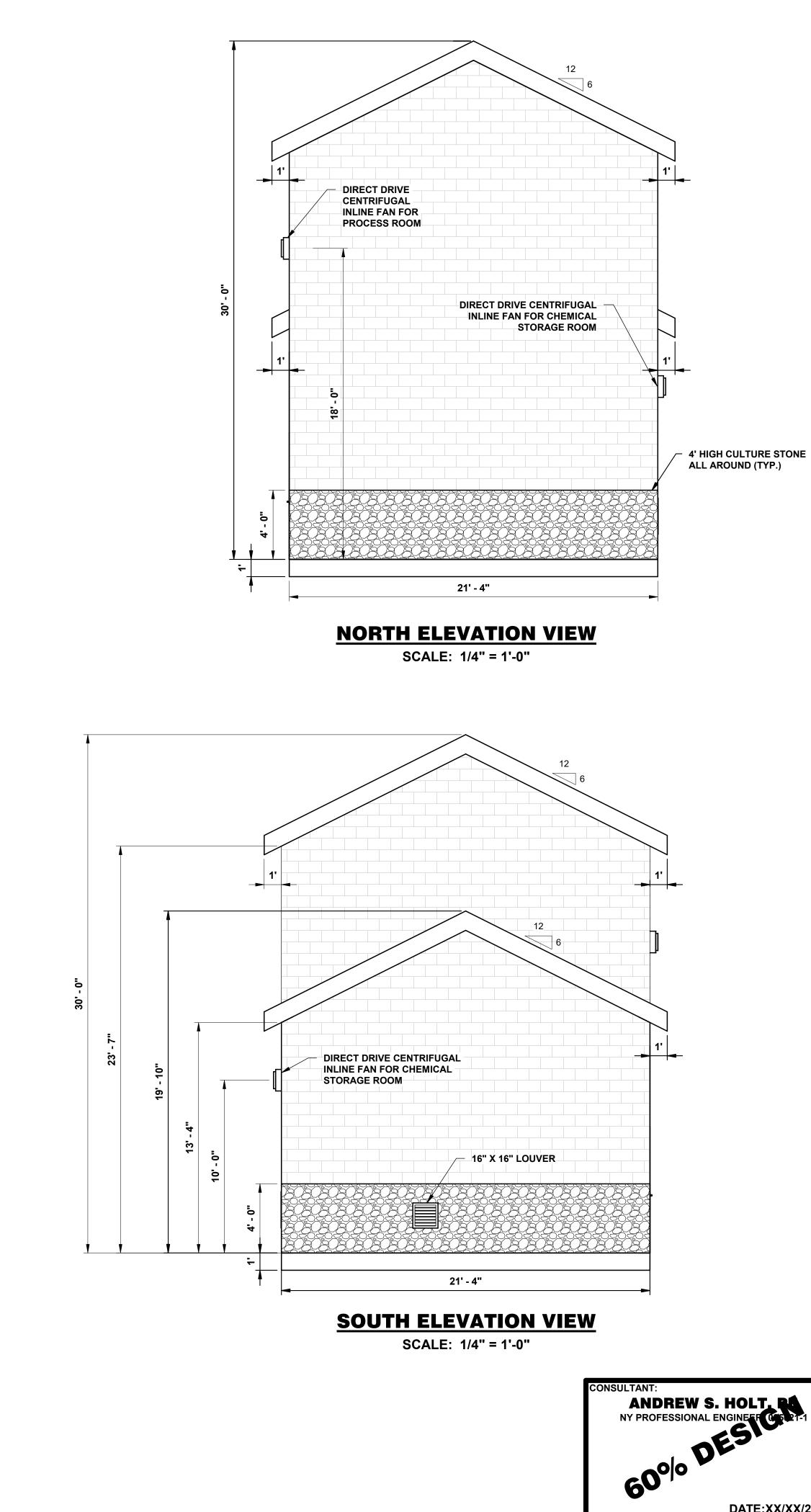


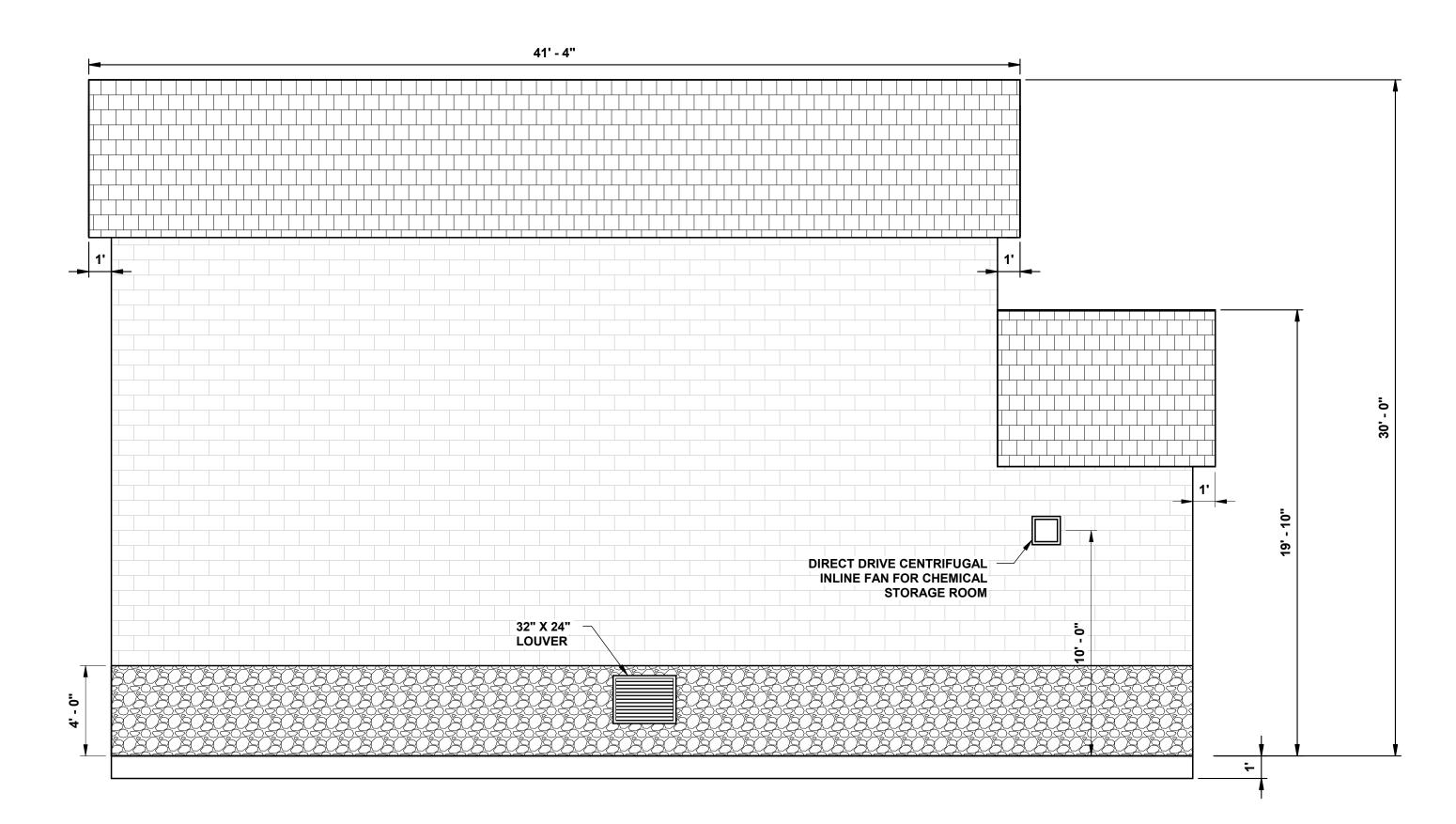


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	SUBURBAN ENGINEERING PER N.J.A.C. ELECTRONIC SUBMISSIONS NOT CONTAINING A VALID DIGITAL SEAL OR PAPER COPIES NOT CONTAINING A RAISED SEAL			- Civil Engineers - - Landscape Architects -	3/8" = 1'-0"
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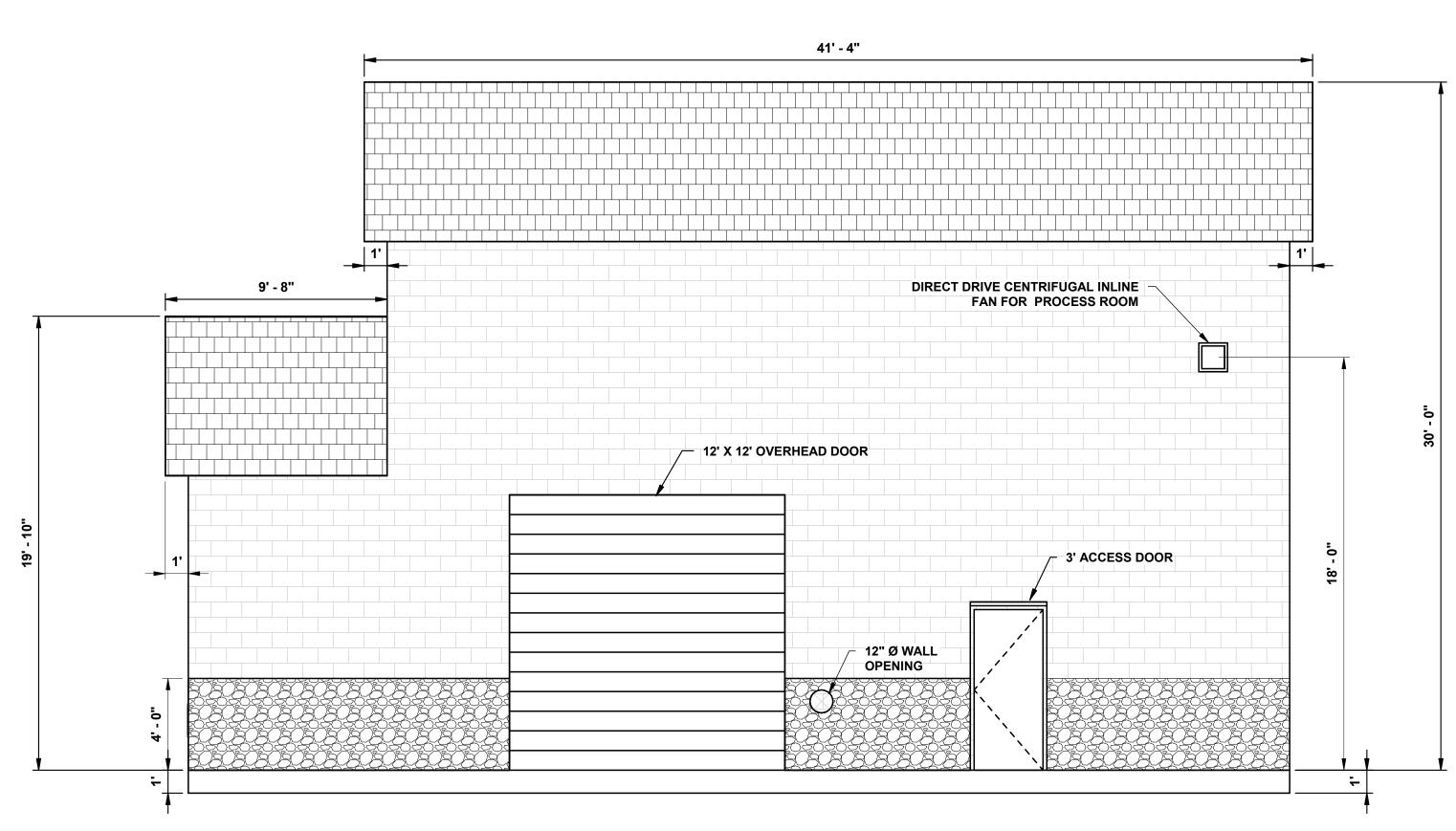






WEST ELEVATION VIEW

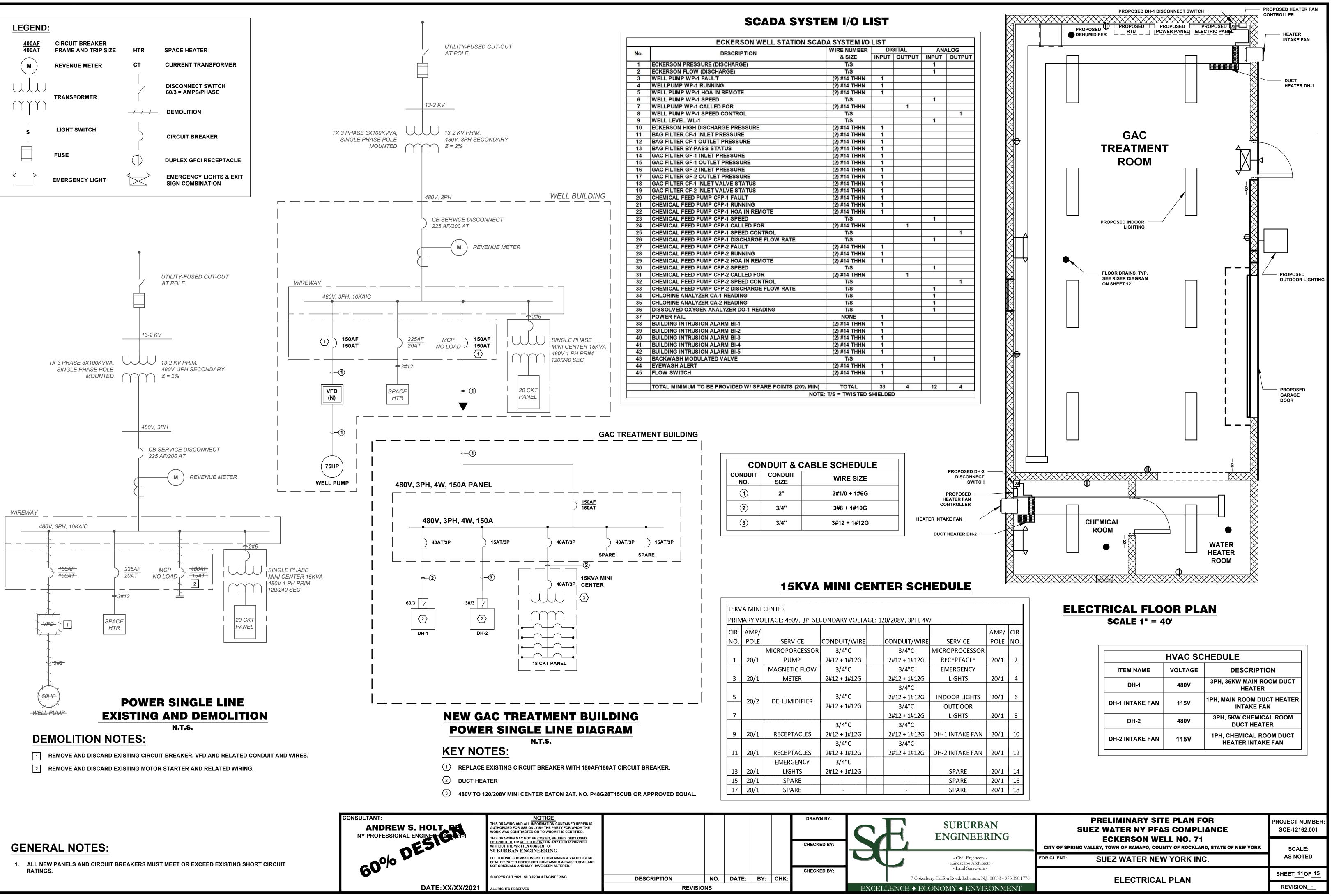
SCALE: 1/4" = 1'-0"



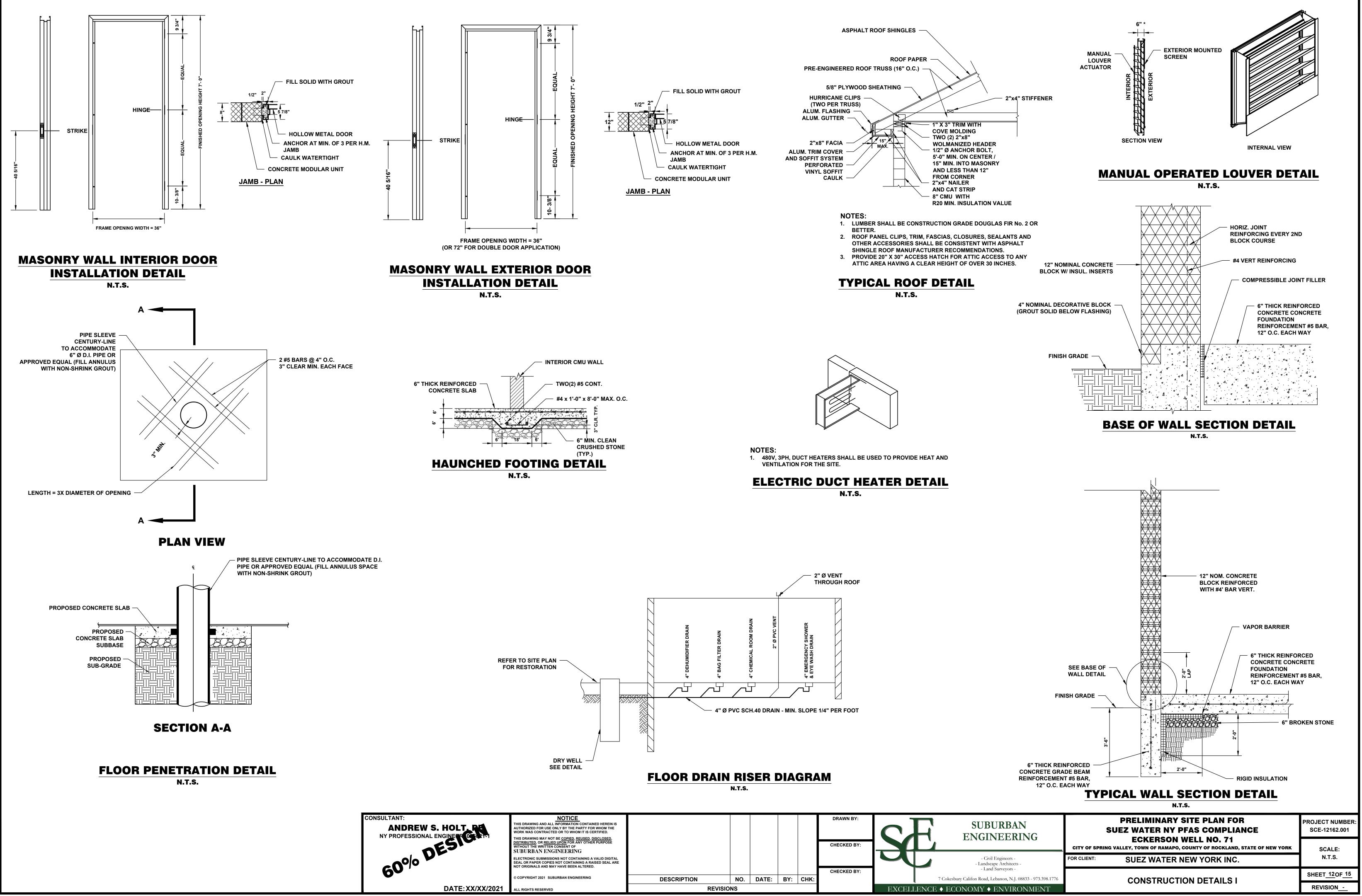
EAST ELEVATION VIEW

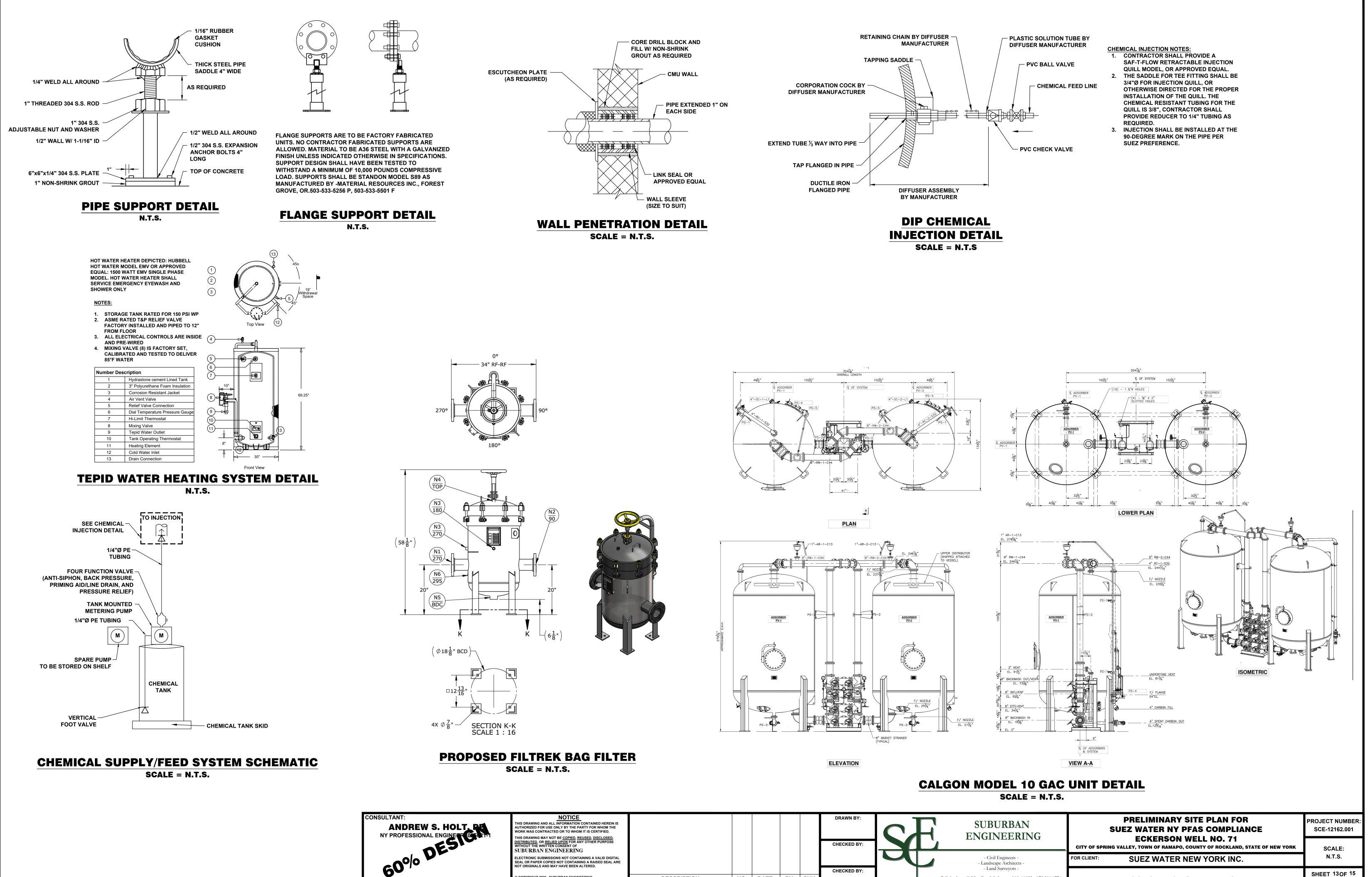
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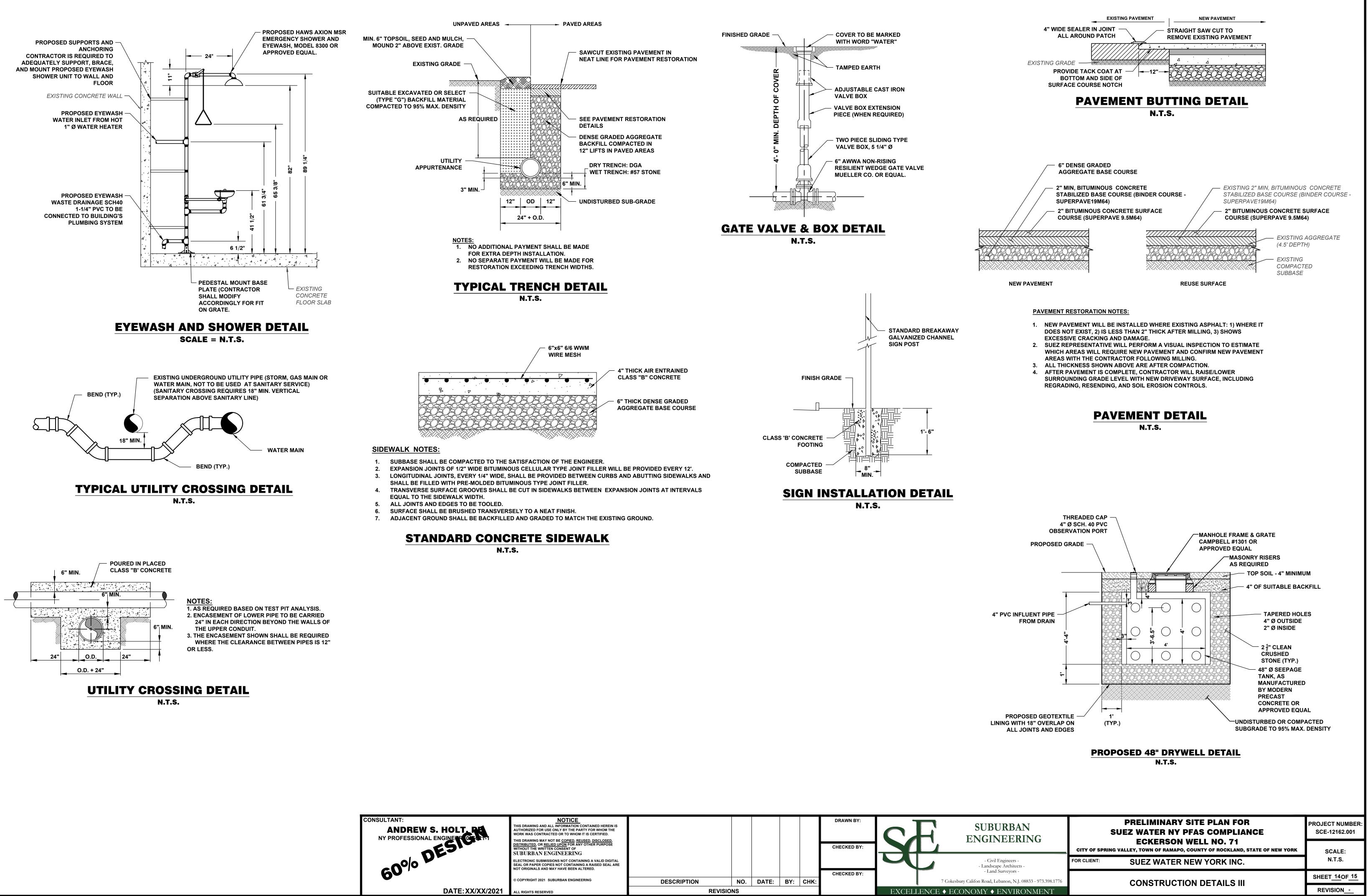
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- Land Surveyors -

CONSTRUCTION DETAILS II

SHEET 13OF 15

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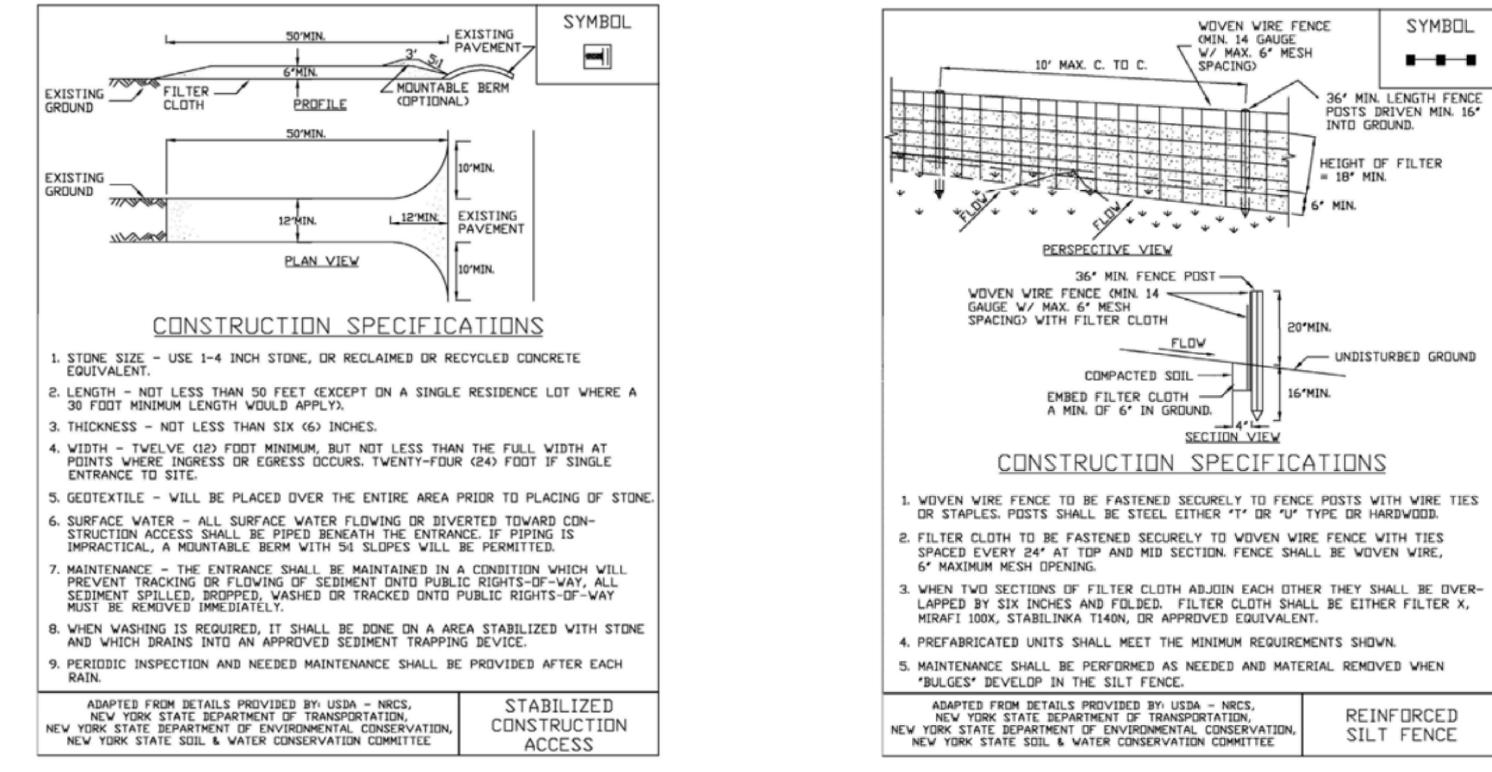
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	© COPYRIGHT 2021 SUBURBAN ENGINEERING	DESCRIPTION	NO.	DATE:	BY:	СНК:		7 Cokesbury
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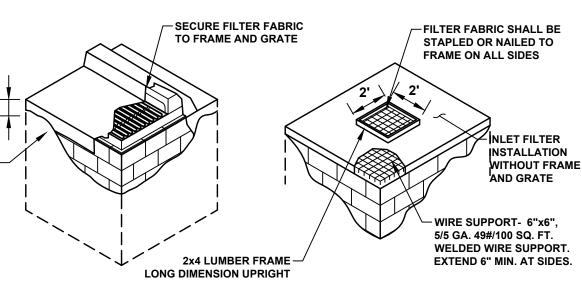
ROCKLAND COUNTY SOIL & WATER CONSERVATION DISTRICT SOIL EROSION & SEDIMENT **CONTROL NOTES**

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND SHALL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED. 2. THE SITE AT ALL TIME SHALL BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED FILTER -EXISTING CLOTH GROUND TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES. 3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND INSPECTING ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ON REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT 4. STOCKPILES ARE NOT TO BE LOCATED WITHIN A FLOODPLAIN, BUFFER, ON A SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A HAY BALE SEDIMENT BARRIER OR SILT EXISTING FENCE. GROUND 5. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET SHALL BE INSTALLED WHEREVER A CONSTRUCTION 77755482 ACCESS ROAD INTERSECTS ANY PAVED ROADWAY IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL NVA 6. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE WORK AREA OR ONTO PUBLIC RIGHT-OF-WAY, SHALL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. 7. DUST SHALL BE CONTROLLED AT ALL TIMES IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. 8. TREES TO REMAIN AFTER CONSTRUCTION WITHIN THE WORK AREA SHALL BE PROTECTED WITH A SUITABLE FENCE INSTALLED AT THE DRIP LINE OR BEYOND IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. 9. TEMPORARY SEDIMENTATION ENTRAPMENT AREAS SHALL BE PROVIDED AT KEY LOCATIONS TO INTERCEPT AND CLARIFY SILT LADEN RUNOFF FROM THE SITE. THESE MAY BE EXCAVATED OR MAY BE CREATED UTILIZING EQUIVALENT. EARTHEN BERMS, RIP-RAP OR CRUSHED STONE DAMS, HAY BALES, OR OTHER CHANNELIZATION SHALL BE CONSTRUCTED TO INSURE THAT ALL SILT LADEN WATERS ARE DIRECTED INTO THE ENTRAPMENT AREAS, WHICH SHALL NOT BE PERMITTED TO FILL IN, BUT SHALL BE CLEANED PERIODICALLY DURING THE COURSE OF CONSTRUCTION. THE COLLECTION SILT SHALL BE DEPOSITED IN AREAS SAFE FROM FURTHER EROSION. 10. ALL DISTURBED AREAS, EXCEPT ROADWAYS, WHICH WILL REMAIN OPEN OR UNFINISHED FOR MORE THAN 10 DAYS SHALL BE TEMPORARILY SEEDED WITH 1/2 LB. OF RYE GRASS OR MULCHED WITH 100 LBS. OF STRAW OR ENTRANCE TO SITE. HAY PER 1.000 SQUARE FEET. ROADWAYS SHALL BE STABILIZED AS RAPIDLY AS PRACTICABLE BY THE INSTALLATION OF THE BASE COURSE. A TEMPORARY SEEDING AND/ OR MULCHING SHOULD BE APPLIED TO DISTURBED AREAS THAT ARE LEFT FOR 15 DAYS UNLESS CONSTRUCTION WILL BEGIN WITHIN 30 DAYS. 11. SILT THAT LEAVES THE SITE SHALL BE COLLECTED AND REMOVED AS DIRECTED BY APPROPRIATE MUNICIPAL AUTHORITIES. 12. AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY SILTATION DEVICES SHALL BE REMOVED AND THE AFFECTED AREAS RE-GRADED, PLANTED, OR TREATED IN ACCORDANCE WITH APPROVED PLANS. 13. ALL AREAS DISTURBED BY ON SITE GRADING, THAT ILL NOT BE CONSTRUCTED UPON, SHALL BE STABILIZED WITH PERMANENT VEGETATIVE COVER, USING THE FOLLOWING SEEDING SCHEDULE, OR EQUIVALENT: 1 LB. PER ACRE 1 LB PER 1,000 SF **KENTUCKY BLUE GRASS -**CREEPING RED FESCUE 0.45 PERENNIAL RYE GRASS -0.10 RAIN. 14. ALL SEEDED AREAS TO HAVE AN APPLICATION OF THE FOLLOWING: LIME - AMOUNT NEEDED TO OBTAIN A pH OF 5.5 FERTILIZER - 15 LBS. PER 1,000 SF OF 10-20-10 FERTILIZER OR APPROVED EQUAL. IF NOT LANDSCAPED OTHERWISE, ALL NEW CONSTRUCTED STEEP PERMANENT SLOPED LESS THAN 1 (VERTICAL) : 2.5 (HORIZONTAL) TO BE SEEDED WITH THE FOLLOWING: **1 LB. PER ACRE** <u>_B PER 1,000 S</u>F **CREEPING RED FESCUE -**TALL FESCUE OR SMOOTH **BROMEGRASS** -W/ PERENNIAL RYE GRASS 0.10 15. ALL SLOPES 1 (VERTICAL): 2.5 (HORIZONTAL) TO BE MULCHED AND STABILIZED WITH CLOTH FABRIC AND PINNED TO THE GROUND. 16. SOD CAN BE USED INSTEAD OF SEED CONSTRUCTION SEQUENCE a. CONSTRUCTION STABILIZING CONSTRUCTION ENTRANCE. b. INSTALL SEDIMENT BARRIERS AS PER NOTE 1 ABOVE. c. CONSTRUCT DIVERSIONS SWALES AND DRAINAGE SYSTEMS WITH MINIMUM NECESSARY CLEARING. d. CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS O BE DISTURBED. e. PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED SUBGRADE. **INSTALL STORM DRAINAGE SYSTEM.** -SECURE FILTER FABRIC f. INSTALL SEDIMENT CONTROL BARRIERS AROUND ALL STORM DRAIN INLETS. -FILTER FABRIC SHALL BE TO FRAME AND GRATE g. SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OR 30 DAYS AS PER STAPLED OR NAILED TO FRAME ON ALL SIDES NOTE 2 ABOVE. h. AFTER COMPLETION OF SITE CONSTRUCTION FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED AS PER NOTES 13 AND 14 ABOVE i. REMOVE SEDIMENT BARRIERS AS PER NOTE 12 ABOVE. j. MAINTAIN ALL SEEDED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE SPECS. 17. ALL CONSTRUCTION TO MEET CURRENT TOWN SPECS. NLET FILTER 18. 4" OF TOP SOIL TO BE SPREAD PRIOR TO SEEDING IN ALL DISTURBED AREAS. **BACKFILL AFTER**-INSTALLATION OF **SEEDING HIERARCHY** AND GRATE INLET FILTER 1. REFER TO PLANTING PLAN FOR AREAS TO RECEIVE "ROADSIDE MIX". 2. REFER TO BASIN PLANTING NOTES FOR BASIN ONLY. WIRE SUPPORT- 6"x6" 3. REFER TO NOTES 13-15 ABOVE FOR ALL OTHER DISTURBANCE AREAS. 5/5 GA. 49#/100 SQ. FT. 2x4 LUMBER FRAME **DETENTION BASIN MAINTENANCE NOTES:** LONG DIMENSION UPRIGHT 1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM. 1. THE LONG TERM MAINTENANCE OF THE ON-SITE DETENTION BASIN SHALL BE THE RESPONSIBILITY OF THE OWNER. 2. IF BOTTOM OF ROADWAY BOX IS BELLOW TOP OF GRATE, CONSTRUCT OPENINGS IN INLET WALL TO 2. THE DETENTION BASIN HAS BEEN DESIGNED WITH A POND DRAIN TO ALLOW DEWATERING OF THE BASIN. ALLOW WATER TO FLOW IN, COVER OPENINGS WITH WELDED WIRE SUPPORT AND FILTER FABRIC. 3. THE DETENTION BASIN SHOULD BE MAINTAINED IN ACCORDANCE WITH THE PROCEDURES AND GUIDELINES 3. INSPECTION SHALL BE MADE FREQUENT. MAINTENANCE, REPAIR AND REPLACEMENT SHALL BE MADE CONTAINED IN THE LATEST EDITION OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL. PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS 4. THE DETENTION BASIN SHOULD BE INSPECTED ON A MONTHLY BASIS AND IMMEDIATELY AFTER MAJOR STORMS. THE INLET HAS BEEN STABILIZED. MAINTENANCE MEASURES SHALL INCLUDE THE FOLLOWING: 4.1. THE POND SHALL BE TREATED FOR MOSQUITO CONTROL PURPOSES IN ACCORDANCE WITH ROCKLAND COUNTY **INLET FILTER DETAIL** DEPARTMENT OF HEALTH GUIDELINES FOR MOSQUITO SUPPRESSION. 4.2. REMOVE ACCUMULATED TRASH AND DEBRIS FROM INSIDE THE DETENTION BASIN. N.T.S. 4.3. KEEP OUTLET STRUCTURE AND EMERGENCY OVERFLOW CLEAR OF OBSTRUCTIONS AND DEBRIS. 4.4. MAINTAIN ADEQUATE VEGETATION AND GROUND COVER ON THE EMBANKMENTS. SEEDING AND VEGETATION SHALL BE PROVIDED AS NEEDED TO ASSURE 100% COVERAGE 4.5. REMOVE UNDESIRABLE WEEDS AND WOODED VEGETATION GROWTH 4.6. REPAIR AND STABILIZE EMBANKMENT EROSION. 4.7. MAINTAIN AND REPAIR CONCRETE OUTLET STRUCTURE AND PVC UNDERDRAINS. 4.8. REMOVE ACCUMULATED SEDIMENT FROM BASIN INTERIOR. MOSQUITO CONTROL NOTES 1. ALL STORMWATER FACILITIES ON THIS SITE HAVE BEEN DESIGNED TO REMOVE ALL STANDING WATER WITHIN FIVE DAYS OF A RAIN EVENT. 2. ALL STORMWATER FACILITIES SHALL BE INSPECTED AFTER SIGNIFICANT RAINFALLS AND AT LEAST ONCE PER MONTH. TREE PROTECTION - TILE AND GRAVEL WILL 3. IF, UPON INSPECTION, WATER REMAINS IN THE STORMWATER FACILITIES LONGER THAN FIVE DAYS AFTER A ALLOW AIR CIRCULATION TO ROOT ZONE

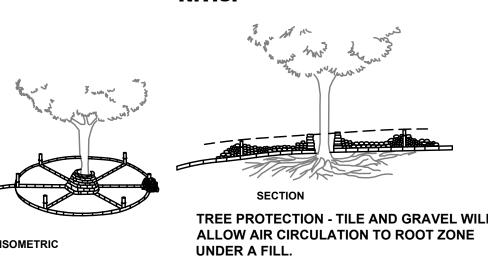
- RAIN EVENT, ONE OF THE FOLLOWING MEASURES WILL BE TAKEN: A) THE WATER WILL BE MECHANICALLY REMOVED (I.E. BY VACUUM); OR
- B) THE WATER WILL BE MECHANICALLY AGITATED TO PREVENT MOSQUITO BREEDING: OR
- C) THE WATER WILL BE TREATED WITH MOSQUITO LARVICIDE IN ACCORDANCE WITH NYSDEC AND ROCKLAND COUNTY HEALTH DEPARTMENT GUIDELINES, REGULATIONS AND PROCEDURES.
- 4. MOSQUITO BREEDING SUPPRESSION MEASURES MUST BE IMPLEMENTED BETWEEN APRIL 1 AND OCTOBER 31.
- 5. LARVICIDE TO BE APPLIED SHALL BE "MOSQUITO DUNKS" AS MANUFACTURED BY SUMMIT CHEMICAL CO.,
- BALTIMORE, MD. OR MANUFACTURER'S SPECIFICATIONS. 6. THE LONG TERM MAINTENANCE OF THE ON-SITE STORMWATER SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.





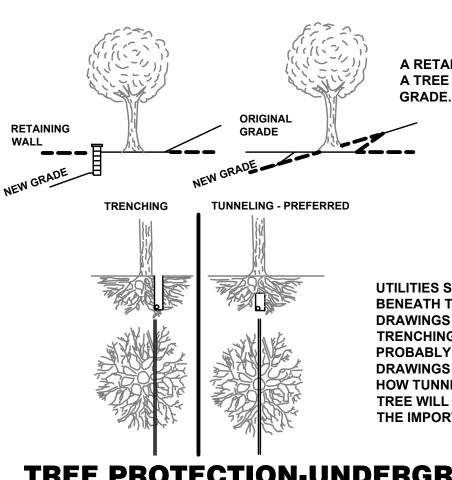




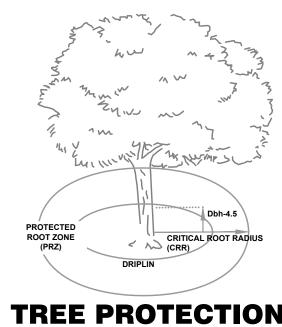












N.T.S.

ZONE (PRZ) BY CALCULATING THE **CRITICAL ROOT RADIUS (CRR).**

1. MEASURE THE DBH (DIAMETER OF **TREE AT BREAST HEIGHT, 4.5 FEET** ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES. 2. MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET.

DBH X 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES.

DBH X 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY, OR TOLERANT SPECIES.

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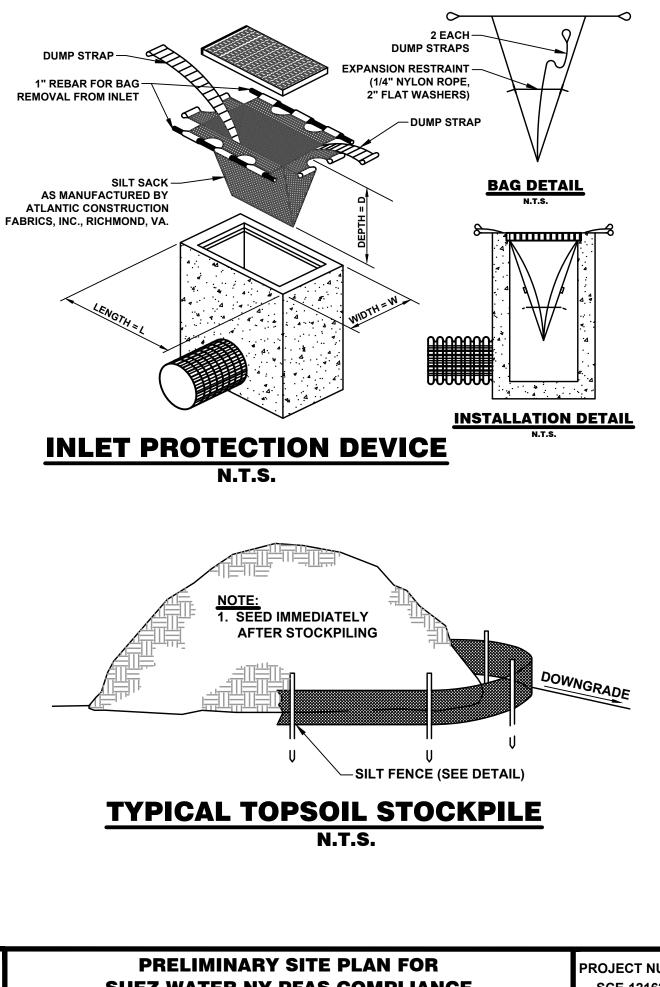
ED FROM DETAILS PROVIDED BY: USDA - NRCS, YORK STATE DEPARTMENT OF TRANSPORTATION, TATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, < STATE SOIL & WATER CONSERVATION COMMITTEE	REINFORCED SILT FENCE

A RETAINING WALL PROTECTS A TREE FROM A LOWERED

UTILITIES SHOULD BE TUNNELED **BENEATH TREE ROOTS. THE** DRAWINGS ON THE LEFT SHOW TRENCHING THAT WOULD PROBABLY KILL THE TREE. THE DRAWINGS ON THE RIGHT SHOW HOW TUNNELING UNDER THE TREE WILL PRESERVE MANY OF THE IMPORTANT FEEDER ROOTS



ESTIMATE A TREE'S PROTECTED ROOT



SUBURBAN ENGINEERING	PRELIMINARY SITE PLAN FOR SUEZ WATER NY PFAS COMPLIANCE	PROJECT NUMBER: SCE-12162.001
	ECKERSON WELL NO. 71 CITY OF SPRING VALLEY, TOWN OF RAMAPO, COUNTY OF ROCKLAND, STATE OF NEW YORK	SCALE:
- Civil Engineers - - Landscape Architects -	FOR CLIENT: SUEZ WATER NEW YORK INC.	N.T.S.
- Land Surveyors - ury Califon Road, Lebanon, N.J. 08833 - 973.398.1776	SOIL EROSION & SEDIMENT CONTROL PLAN	SHEET <u>15</u> OF <u>15</u>
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