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

REV. PER DESIGN COMMENTS	A	05/24/2022	JAW	WAS
DESCRIPTION	NO.	DATE:	BY:	CHK:
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CONSULTANT: ANDREW S. HOLT, PE NY PROFESSIONAL ENGINEER: 095020-1

SUEZ WATER NEW YORK INC. - PFAS COMPLIANCE ECKERSON WELL NO. 71 CITY OF SPRING VALLEY, TOWN OF RAMAPO, COUNTY OF ROCKLAND, STATE OF NEW YORK

FOR CONSTRUCTION



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, IMAGE TAKEN MARCH 27, 2019

KEY MAP

SCALE: 1"=100'



PROJECT DIRECTORY

OWNER SUEZ WATER NEW YORK INC. 162 OLD MILL ROAD WEST NYACK, NY 10994 (845)357-4411

SITE ENGINEERING & LAND SURVEYOR SUBURBAN ENGINEERING 7 COKESBURY CALIFON ROAD LEBANON, NJ 08833 973-398-1776

SUEZ WATER NEW YORK INC. - PFAS COMPLIANCE ECKERSON WELL NO. 71 CITY OF SPRING VALLEY, TOWN OF RAMAPO, COUNTY OF ROCKLAND, STATE OF NEW YORK

> FOR CONSTRUCTION **COVER SHEET**



PROJECT NUMBER: SCE-12162.001 SHEET 1_OF 22



- **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.
- 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'".
- 7. FIELD SURVEY PARTIAL SITE CONDITIONS PREPARED BY SCE

DATE:03/11/2022

ANDREW S. HOLT, PE

NY PROFESSIONAL ENGINEER: 095020-1

OF SIZES AS MAY EXIST.

PROPERTY ACCESS.

CONSULTANT:

1.

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

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

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

3. HORIZONTAL DATUM BASED ON NAD-83 (2011), PER GPS SATELLITE OBSERVATION.

4. VERTICAL DATUM IS BASED ON NAVD-88, PER GPS SATELLITE OBSERVATION.

5. PARTIAL BOUNDARY & TOPOGRAPHIC SURVEY REFERENCED FROM SUBURBAN ENGINEERING, ENTITLED "SUEZ WATER NEW YORK, INC. - PFAS COMPLIANCE - ECKERSON #71" DATED MARCH 30, 2021.

7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF RAMAPO STANDARDS AND SPECIFICATIONS, AND ALL STRUCTURES ARE SUBJECT TO REVIEW BY THE CONSTRUCTION CODE OFFICIAL. THE CONSTRUCTION OF ALL SITE IMPROVEMENTS SHALL COMPLY WITH THE NEW YORK STATE CONSTRUCTION CODE.

8. A PORTION OF THE SUBJECT PROPERTY IS SUBJECT TO FLOODING FROM THE 100 YEAR STORM, BASED ON THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF RAMAPO, PANEL 94 OF 207, COMMUNITY

9. WORK MAY BE PERFORMED MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 8:00 AM AND 1:00 PM. THE TOWN AND OWNER MUST APPROVE EARLY STARTS AND WORK ON SATURDAYS, SUNDAYS AND HOLIDAYS. WORKING HOURS ON SUEZ PROPERTY MUST BE CONFIRMED AND ANTICIPATED BETWEEN THE WORKING HOURS OF 8:00 AND 6:00 PM.

10. NO MATERIAL OR EQUIPMENT IS TO BE STORED ON ANY AREA THAT HAS NOT BEEN ESTABLISHED AS A DESIGNATED STAGING AREA. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY. STAGING AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS BY THE CONTRACTOR.

11. ALL CONSTRUCTION MATERIALS, PRODUCTS, HOURS OF OPERATION, ETC. SHALL BE IN ACCORDANCE WITH THE OWNER, THE ON-SITE ENGINEER, THE STATE OF NEW YORK, THE COUNTY OF ROCKLAND, AND THE TOWN OF RAMAPO. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL AS-BUILTS TO THE TOWN (AS REQUIRED) AND THE OWNER OF THE SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL LOCAL BUILDING PERMITS. THE OWNER WILL OBTAIN ALL PLANNING, ZONING AND LAND DISTURBANCE PERMITS, IF DEEMED NECESSARY.

13. BUILDING PERMITS SHALL SHOW LOWEST FLOOR ELEVATIONS SUBJECT TO APPROVAL AND INSPECTION BY DEPARTMENT OF ENGINEERING & FACILITIES MAINTENANCE. NO BUILDING PERMIT FOR A BUILDING SUBJECT TO SITE PLAN APPROVAL SHALL BE ISSUED BY THE BUILDING INSPECTOR EXCEPT UPON AUTHORIZATION OF AND IN CONFORMITY WITH THE SITE PLAN APPROVED

14. ALL EXISTING ITEMS NOT DENOTED "TO BE REMOVED" SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.

15. SUEZ WATER NEW YORK INC. AND THE CONTRACTOR SHALL CONFORM TO SOIL EROSION AND SEDIMENT CONTROL PLAN ON

16. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC

17. PRIOR TO ANY EXCAVATION, CONTRACTOR MUST HAVE ALL UTILITIES MARKED OUT BY THE APPROPRIATE UTILITY COMPANIES ->

GENERAL ENVIRONMENTAL NOTES:

1. THE CONTRACTOR MUST PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PROVISIONS AND CONDITIONS OF THE ROCKLAND COUNTY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.

2. THE TRENCH EXCAVATION MAY BE NO WIDER THAN NECESSARY TO COMPLY WITH OSHA SAFETY STANDARDS AND THE CONSTRUCTION DETAILS UNDER THE ACTUAL SURFACE AND SUBSURFACE CONDITIONS AS MAY BE ENCOUNTERED DURING

3. AVOID DISTURBANCE OF NATURAL VEGETATION DURING CLEARING OPERATIONS TO THE GREATEST EXTENT PRACTICABLE.

4. PERFORM "SOIL EROSION AND SEDIMENT CONTROL" AS DIRECTED BY THE ENGINEER OR SOIL CONSERVATION AGENCY REPRESENTATIVE AS CALLED FOR ON THE PLANS. PERFORM WORK IN ACCORDANCE WITH THE SPECIFICATIONS AS MAY BE WARRANTED BY ACTUAL FIELD CONDITIONS AND THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR ADJUSTMENTS, ADDITIONAL MATERIALS AND MAINTENANCE OF THIS WORK.

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

6. MAINTAIN WORK WITHIN THE DESIGNATED LIMITS OF DISTURBANCE AS DELINEATED AND NOTED ON THE PLANS. RESTORE ANY

7. DISPOSE OF ALL WASTE, DEBRIS, AND UNSUITABLE EXCAVATED MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS, THE

GENERAL WATER MAIN CONSTRUCTION NOTES:

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

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, FITTINGS, AND VALVES IN THE RANGE

GENERAL CONSTRUCTION NOTES:

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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

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

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DESCRIPTION

REVISIONS

NOTICE

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89/50.15-4-48 LEONARD ROSE R 14 INWOOD DR SPRING VALLEY, NY 10977

89/50.15-4-45 LOPEZ JOSE F 17 INWOOD DR SPRING VALLEY, NY 10977

89/50.15-4-59 SINGER ZELDA **13 SHERMAN DR** SPRING VALLEY, NY 10977

89/50.15-4-54 STERNBERGER BENJAMIN 58 PARK AVE MONTICELLO, NY 12701

89/50.15-4-40 **GONZALEZ JOHN RAY &** ROSARIO ANA M **1 GREENE RD** SPRING VALLEY, NY 10977

89/50.15-4-67 JEFFERIES BOBBY & MICHELLE A 11 SHERMAN DR SPRING VALLEY, NY 10977

89/50.15-4-18 HOLLENSWORTH FREDERICK & CAROL 156 EAST ECKERSON RD SPRING VALLEY, NY 10977

89/50.15-4-56 SALAMON JOEL & SOFER JOEL 7 CARDINAL DRIVE MONSEY, NY 10952

89/50.15-4-12 **RODRIGUES FERNANDO &** NOEMI A **15 CHAMBERLAIN CT POMONA, NY 10970**

89/50.15-2-78 CHALLENGER DORIEN & CHALLENGER-HILL MYRTLE E 141 E ECKERSON RD SPRING VALLEY, NY 10977

89/50.15-2-27 KURIAN KURIAN T & SARAMMA 2 MAALOT CT

SPRING VALLEY, NY 10977 89/50.15-2-59 **BRANSDORFER JUDA & ESTHER** 12 DORSET ROAD

89/50.15-2-44 27 WESTSIDE II LLC **16 ELENER LANE** SPRING VALLEY, NY 10977

SPRING VALLEY, NY 10977

89/50.15-4-13 SOFER JOEL & SALAMON JOEL 7 CARDINAL LANE

89/50.15-4-42 LOUISSAINT MYRLENE **4 GREENE RD** SPRING VALLEY, NY 10977

89/50.15-4-39 **EMILE BETTY & BERNADETTE 3 GREENE ROAD** SPRING VALLEY, NY 10977

89/50.15-4-58 MC MURRIN DENNIS & HERMINE **7 NORTHBROOK RD** SPRING VALLEY, NY 10977

89/50.15-4-41 **BREUER ABRAHAM & FRAIDY 186 DIVISION AVENUE** BROOKLYN, NY 11211

89/50.15-4-55 DALEY MARK & ANITA B 2 NORTHBROOK RD SPRING VALLEY, NY 10977

89/50.15-4-17 EDWARDS PAULINE A M & GERALD **154 E ECKERSON RD** SPRING VALLEY, NY 10977

89/50.15-4-15 **CARPIO HUGO & ADELMO 148 E ECKERSON RD** SPRING VALLEY, NY 10977

89/50.15-4-11 FUENTES JESUS H & VALERIE 134 ECKERSON RD SPRING VALLEY, NY 10977

89/50.15-2-77 PAUL FRANCES CAROL 2 HEADDEN DR SPRING VALLEY, NY 10977

89/50.15-2-28 JEAN-BAPTISTE SERGE & REGINE 1 MAALOT CT SPRING VALLEY, NY 10977

89/50.15-2-45 EFESE SAMSON 143 ROCKLAND LA SPRING VALLEY, NY 10977

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MONSEY, NY 10952

89/50.15-4-33 89/50.15-2-54 FRANKLYN GLORIA & SMITH THOLOOR GEORGE T & SALOMI PAULETTE & VASSELL DONNA 5 HEADDEN DR SPRING VALLEY, NY 10977 2 EDWARD LA SPRING VALLEY, NY 10977

89/50.15-4-46 **COLEMAN MARK & REGINA 18 INWOOD DR** SPRING VALLEY, NY 10977

89/50.15-4-57 UNGAR CHESKI YAKOV **3 NORTHBROOK ROAD** SPRING VALLEY, NY 10977

CERTIFIED PROPERTY OWNERS LIST WITHIN 500 FT.

89/50.15-4-52 STERNBERGER BENJAMIN 58 PARK AVE MONTICELLO, NY 12701

89/50.15-4-53 **CONTRERAS LAURA J &** CHINTUS RAFAEL 6 NORTHBROOK RD SPRING VALLEY, NY 10977

89/50.15-4-47 MUNROE ROSEZELLA 16 INWOOD DR SPRING VALLEY, NY 10977

89/50.15-4-16 WILLIAMSON MELVIN A & **ELIZABETH M 152 E ECKERSON RD** SPRING VALLEY, NY 10977

89/50.15-4-14 144 E ECKERSON RD SPRING VALLEY, NY 10977

89/50.15-4-10 **HESTER CLAUDIA & SCOTT 132 E ECKERSON RD** SPRING VALLEY, NY 10977

89/50.15-2-52 JEAN JOSEPH VITAL 500 EAST 77TH ST APT 1214 NEW YORK, NY 10162

89/50.15-2-60 SABBAGH PAUL & MANOCHAK **37 DYKES PARK** NANUET, NY 10954

89/50.15-2-72 DEEVY RICHARD W & KATHLEEN M **12 HEADDEN DR** SPRING VALLEY, NY 10977

89/50.15-2-17 BOYKIN KENNETH 154 ROCKLAND LANE SPRING VALLEY, NY 10977

89/50.15-2-76 LE CORPS SIENA & FABRICE RONEL **4 HEADDEN DR** SPRING VALLEY, NY 10977

89/50.15-2-53 SHEINER CAROLYN **3 HEADDEN DR** SPRING VALLEY, NY 10977

89/50.15-2-49 RODRIGUEZ RONY G & LINARES ELBA 151 ROCKLAND LA SPRING VALLEY, NY 10977

89/50.15-2-48 LICERALDE OFELIA & GERONIMO 149 ROCKLAND LANE SPRING VALLEY, NY 10977

89/50.15-2-20 LOUIS MARIE & PERSONNA **3 JORDAN PLACE** SPRING VALLEY, NY 10977

89/50.15-2-57 MOISE ROCK & ANNE MARIE SCIUPIDRO STEFAN & HALINA 11 HEADDEN DR SPRING VALLEY, NY 10977

> 89/50.15-2-56 LUCKSOM NIMA R & URMI 9 HEADDEN DR SPRING VALLEY, NY 10977

89/50.15-2-58 VAN LEER STEVEN & ANDREA **15 HEADDEN DR** SPRING VALLEY, NY 10977

89/50.15-2-16 **DEMOSTHENE ANTHONY &** MARIE SONIA **121 E ECKERSON RD** SPRING VALLEY, NY 10977

89/50.15-2-51 SUEZ WATER NY 461 FROM RD PARAMUS, NJ 07652

89/50.15-2-15 FISCHER MORDECHAI 29 OAK GLEN ROAD **MONSEY, NY 10952**

89/50.15-2-19 GERMAIN GAILLETANE **4 JORDAN PL** HILLCREST, NY 10977

89/50.15-2-80 MEHU PEGGY 4 INWOOD LA SPRING VALLEY, NY 10977

89/50.15-2-74 **BELIZAIRE NYVA & FRANCOIS** VVFS **8 HEADDEN DR** SPRING VALLEY, NY 10977

89/50.15-2-21 REMY ETHEL 2 JORDAN PL SPRING VALLEY, NY 10977

89/50.15-2-47 MONDESIR YVENS 147 ROCKLAND LA SPRING VALLEY, NY 10977

89/50.15-2-23 DICKENS SYLVIA H 6 MAALOT CT SPRING VALLEY, NY 10977

89/50.15-2-24 **5 MAALOT LLC** \$203 **62 TRUMAN AVE** SPRING VALLEY, NY 10977 89/50.15-2-50 **ROSS DENISE M & GRAMPUS** BENJAMIN SR 153 ROCKLAND PKWY SPRING VALLEY, NY 10977

89/50.15-2-79 **TORRES FERNANDO & DADIN** 2 INWOOD LA SPRING VALLEY, NY 10977

89/50.15-2-18 MANU ELIZABETH 152 ROCKLAND LA SPRING VALLEY, NY 10977

89/50.15-2-75 LOUIS-PAUL MARIE JOCELYNE **6 HEADDEN DR** SPRING VALLEY, NY 10977

89/50.15-2-55 **DUMONT ALIX & NICOLE** 7 HEADDEN DR SPRING VALLEY, NY 10977

89/50.15-2-81 6 INWOOD LLC **PO BOX 293** MONSEY, NY 10952

89/50.15-2-22 BOURSIQUOT JACQUELINE 150 ROCKLAND LANE SPRING VALLEY, NY 10977

89/50.15-2-73 **BRADLEY ERIC &** HENIGAN SAUNDRA **10 HEADDEN DR** SPRING VALLEY, NY 10977

89/50.15-2-46 LUNGER PERYL **50 TRUMAN AVE** SPRING VALLEY, NY 10977

89/50.15-2-25 FRANCOIS MARIE KETTLY 4 MAALOT CT SPRING VALLEY, NY 10977

SUBURBAN	SUEZ W	ATER NEW YORK INC PFAS COMPLIANCE	PROJECT NUMBER: SCE-12162 001
ENGINEERING	CITY OF SPRING	ECKERSON WELL NO. 71 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		GENERAL NOTES & LEGEND	SHEET 2_OF 22
ONOMY ♦ ENVIRONMENT			REVISION -



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ENGINEERING **ECKERSON WELL NO. 71** CITY OF SPRING VALLEY, TOWN OF RAMAPO, COUNTY OF ROCKLAND, STATE OF NEW YORK FOR CLIENT:

SCALE: **AS NOTED**

PROJECT NUMBER

SCE-12162.001

7 Cokesbury Califon Road, Lebanon, N.J. 08833 - 973.398.177 ECONOMY ENVIRONMENT

- Civil Engineers -

- Landscape Architects -- Land Surveyors -

SUBURBAN

EXISTING CONDITIONS PLAN

SUEZ WATER NEW YORK INC.

SUEZ WATER NEW YORK INC. - PFAS COMPLIANCE

SHEET 3_OF_22 REVISION -



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ATE:03/11/2022	ALL RIGHTS RESERVED	REVISIONS				EXCELLEN	ICE ♦ ECONOMY ♦ ENVIRONMENT		REVISION -







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:03/11/2022	ALL RIGHTS RESERVED	REVISI	ONS	1				EXCELI	LLEN	ICE ECONOMY ENVIRONMENT			REVISION -

LANDSCAPE AND GRADING PLAN SCALE 1" = 10'



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	ELECTRONIC SUBMISSIONS NOT CONTAINING A VALID DIGITAL SEAL OR PAPER COPIES NOT CONTAINING A RAISED SEAL ARE NOT OPIGINAL S AND MAY HAVE BEEN ALTEPED						03/11/2022	



EXISTING WELL NO. 71 PLAN VIEW SCALE: 3/8" = 1'-0"



EXISTING WELL NO. 71 SECTION A-A SCALE: 3/8" = 1'-0"

CONSULTANT: ANDREW S. H NY PROFESSIONAL ENGIN

OLT, PE NEER: 095020-1	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: JAW 03/11/2022	сF	SUBURBAN ENGINEERING	SUEZ WATER NEW YORK INC PFAS COMPLIANCE ECKERSON WELL NO. 71	PROJECT NUMBER: SCE-12162.001
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	PER N.J.A.C. ELECTRONIC SUBMISSIONS NOT CONTAINING A VALID DIGITAL SEAL OR PAPER COPIES NOT CONTAINING A RAISED SEAL ARE NOT ORIGINALS AND MAY HAVE BEEN ALTERED.			03/11/2022 CHECKED BY:		- Landscape Architects - - Land Surveyors - 7 Cokebury Califon Road, Lebanon, N.I 973,398,1776	SUEZ WATER NEW TORK INC.	SHEET <u>8</u> OF <u>22</u>
ATE:03/11/2022	ALL RIGHTS RESERVED	DESCRIPTION NO. REVISIONS	DATE: BY: CHK:		EXCELLENCE (► ECONOMY ◆ ENVIRONMENT	EXISTING WELL NO. 71 MODIFICATIONS	REVISION









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		REV. PER DESIGN COMMENTS	Α	05/24/2022	JAW	REW	CHECKED BY:	_
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OATE:03/11/2022	ALL RIGHTS RESERVED	REVISIO	NS					EXCELLENCE ♦ 1





WEST ELEVATION VIEW





								SCALE	E: 1/4 =	1-0			
IOLT, PE INEER: 095020-1	<u>NOTICE</u> 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: JAW 03/11/2022	C	F	SUBURBAN ENGINEERING	SUEZ W	ATER NEW YORK INC PFAS COMPLIANCE ECKERSON WELL NO. 71	PROJECT NUMBER: SCE-12162.001
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	PER N.J.A.C. ELECTRONIC SUBMISSIONS NOT CONTAINING A VALID DIGITAL SEAL OR PAPER COPIES NOT CONTAINING A RAISED SEAL						03/11/2022			- Civil Engineers - - Landscape Architects -	FOR CLIENT:	SUEZ WATER NEW YORK INC.	1/4" = 1'-0"
	ARE NOT ORIGINALS AND MAY HAVE BEEN ALTERED.	REV. PER DESIGN COMMENTS	A	05/24/2022	JAW	REW	CHECKED BY:		7.6	- Land Surveyors -			SHEET 11 OF 22
	© COPYRIGHT 2021 SUBURBAN CONSULTING ENGINEERS, INC.™	DESCRIPTION	NO.	DATE:	BY:	CHK:			/ .	okebury Califon Koad, Lebanon, N.J 9/3.398.1//6	GAC	TREATMENT BUILDING ELEVATION VIEWS	
DATE:03/11/2022	ALL RIGHTS RESERVED	REVISIO	ONS		I			EXCELLE	ENCE ♦ E	CONOMY ♦ ENVIRONMENT			REVISION A



DATE: 05/24/2022

DATE

GENERAL NOTES

<u>GENERAL</u>

- GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND CHECK ALL MEASUREMENTS ON JOB AND SHALL BE RESPONSIBLE FOR SAME.
 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT BUILDING CODE OF ALL GOVERNING
- AUTHORITIES.
- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH MECHANICAL DRAWINGS.
 ALL OPENINGS IN WALLS, FLOORS, ROOF, ETC. TO BE LOCATED, SIZED, FURNISHED AND INSTALLED AS PER MECHANICAL REQUIREMENTS EVEN IF NOT SHOWN AS SUCH ON STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- 5. WHERE CONSTRUCTION SEQUENCING / PHASING REQUIREMENTS ARE INDICATED OR IMPLIED IN THE CONTRACT DOCUMENTS, COORDINATE CONSTRUCTION OF BUILDING STRUCTURE TO SUIT SEQUENCING / PHASING REQUIREMENTS AND PROVIDE ALL NECESSARY AND TEMPORARY SUPPORTS AS REQUIRED TO SAFELY CONSTRUCT THE STRUCTURE.
- ALL WALLS SHALL BE ADEQUATELY BRACED UNTIL ROOF OR FLOOR THEY SUPPORT ARE COMPLETELY INSTALLED AND ARE STRUCTURALLY SOUND.
 APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF ANY CONTRACT REQUIREMENTS
- EVEN IF SUCH ITEMS ARE NOT SHOWN ON SHOP DRAWINGS. 8. ALL REVISIONS TO SHOP DRAWINGS AFTER FIRST SUBMISSION MUST BE SO IDENTIFIED ON SUBSEQUENT
- SUBMISSIONS. 9. REPRODUCTION OF STRUCTURAL CONTRACT DRAWINGS IS NOT TO BE SUBMITTED AS SHOP DRAWINGS.

FOUNDATIONS

- 1. A COPY OF THE SOIL INVESTIGATION REPORTS BY CARLIN, SIMPSON & ASSOCIATES, LLC DATED JULY 22, 2021, VISIT THE SITE AND THOROUGHLY FAMILIARIZE YOURSELF WITH ALL SURFACE AND SUBSURFACE CONDITIONS. THIS INFORMATION IS GIVEN SOLELY AS A GUIDE. NO RESPONSIBILITY IS ACCEPTED BY THE OWNER AND THE CONSULTANT FOR ITS CORRECTNESS, NOR SHALL ITS ACCURACY OR ANY OMISSIONS AFFECT THE PROVISION OF THIS CONTRACT.
- 2. ALL FOOTINGS SHALL REST ON SOIL OF ONE (1) TON PER SQUARE FOOT (2,000 PSF) BEARING CAPACITY MINIMUM. SOILS ENGINEER, PAID FOR BY THE OWNER, MUST VERIFY ALL FOOTING BOTTOMS PRIOR TO POURING ANY CONCRETE FOOTINGS.
- ALL FILLED AREAS SHALL BE COMPACTED LAYER BY LAYER TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH ASTM D1557.
 FOUND EXTERIOR FOOTING AND OTHER FOOTINGS SUSCEPTIBLE TO DAMAGE RESULTING FROM FROST
- FOUND EXTERIOR FOOTING AND OTHER FOOTINGS SUSCEPTIBLE TO DAMAGE RESULTING FROM FROST ACTION 42 INCHES BELOW GRADE.
 FOUND NEW FOOTINGS WHICH ARE LOCATED ADJACENT TO EXISTING FOOTINGS, AT THE SAME ELEVATION
- AS THE EXISTING FOOTINGS, UNLESS NOTED OTHERWISE. 6. PROVIDE STEPPED FOOTINGS NOT EXCEEDING A RISE OF 1 IN A RUN OF 2, OR AS PER DETAIL WHERE
- NECESSARY.
 7. BACKFILLING AGAINST FOUNDATION WALLS SHALL NOT BE PERMITTED UNTIL FLOORS OR ROOF THEY SUPPORT HAS BEEN COMPLETELY INSTALLED AND ATTAINED 100% OF ITS DESIGN STRENGTH, UNLESS OTHERWISE APPROVED BY ENGINEER.
- 8. PROVIDE 15 MIL THICK VAPOR BARRIER ON 6 INCHES POROUS FILL UNDER ALL CONCRETE SLABS ON EARTH.
- 9. ALL FOOTING DOWELS TO BE SAME SIZE, NUMBER AND GRADE AS VERTICAL REINFORCEMENT IN COLUMNS, PIERS, OR WALLS, WHICH THE FOOTING SUPPORT.

CONCRETE

- 1. ALL CONCRETE SHALL BE CONTROLLED CONCRETE COMPLYING WITH ACI BUILDING CODE REQUIREMENT. A. FOUNDATION CONCRETE (FOOTING, WALLS, PIERS POURED INTEGRALLY WITH WALL, SLAB ON GRADE, ETC): 4000 PSI NORMAL WEIGHT CONCRETE.
- B. SLUMP 4" MIN. AIR CONTENT 6%.
- REINFORCING BARS SHALL BE NEW STEEL BILLET, DEFORMED TYPE, ASTM A615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM WITH ASTM A1064.
 WHEN CONSTRUCTION JOINTS ARE USED IN SLABS, WALLS, OR BEAMS, THEY SHALL BE LOCATED AT
- POINTS OF MINIMUM SHEAR AND SHALL BE KEYED.
 CONTRACTOR SHALL SUBMIT PLAN SHOWING POURING SEQUENCE AND TYPE AND LOCATION OF PROPOSED
- JOINTS IN ALL SLABS TO ENGINEER FOR APPROVAL. 5. PLACE SLAB-ON-GRADE ON MATERIAL CAPABLE OF SUSTAINING 2000 PSF WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOOTINGS.
- PROVIDE MINIMUM REINFORCING IN ALL CONCRETE AS PER ACI BUILDING CODE REQUIREMENTS.
 THE REINFORCING SPLICING LENGTH SHALL CONFORM TO ACI BUILDING CODE REQUIREMENTS.
- 8. PROVIDE #4 NOSING BAR IN EACH CONCRETE STEP.

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MASONRY

- 1. ALL MASONRY WALL UNITS SHALL CONFORM TO THE LATEST EDITION OF ASTM C-90 REQUIREMENTS. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE CONCRETE (fm) SHALL BE 1500 PSI ACROSS THE NET AREA (UNLESS NOTED OTHERWISE ON PLANS). AGGREGATE FOR CONCRETE SHALL BE LIGHTWEIGHT U.N.O. ALL MASONRY IN CONTACT WITH EARTH SHALL BE CONVENTIONAL NORMAL WEIGHT CONCRETE.
- 2. USE TYPE M MORTAR ASTM C-270 FOR REINFORCED MASONRY WALLS.
- REINFORCING BARS SHALL CONFORM TO ASTM A615, AND JOINT REINFORCEMENT SHALL CONFORM TO ASTM A82.
 PRISM TESTS FOR MASONRY SHALL BE REQUIRED AT RATE OF 1 TEST PER 5000 SQUARE FEET (MINIMUM
- ONE TEST PER FLOOR) PRISM SHALL BE TESTED IN ACCORDANCE WITH ACI 530-92 SPECIFICATIONS.
- 5. PROVIDE MINIMUM REINFORCING WHERE REQUIRED IN ACCORDANCE WITH THE TYPICAL DETAILS.
- 6. ALL CONCRETE MASONRY UNITS SHALL BE BRACED DURING CONSTRUCTION UNTIL PERMANENT RESTRAINTS HAVE BEEN INSTALLED.
- PROVIDE JOINT REINFORCING OF STANDARD 9 GAUGE LADDER TYPE REINFORCING AT 16" ON CENTER MAXIMUM VERTICAL SPACING IN ALL MASONRY UNLESS SHOWN OTHERWISE.
 PROVIDE MINIMUM 2-#6 @ 2'-8" O/C VERTICAL FULL HEIGHT, AND 4-#6 AT ALL WALL ENDS, CORNERS,
- INTERSECTIONS, OPENINGS AND EACH SIDE OF CONTROL JOINTS. 9. VOIDS IN REINFORCED MASONRY WALLS SHALL BE FILLED WITH GROUT OF MINIMUM ULTIMATE STRENGTH OF 3000 PSI, AT REINFORCING BARS AND ELSEWHERE AS SHOWN ON DRAWINGS.
- 10. THE MINIMUM SPLICE LENGTH FOR ALL RE-BARS SHALL BE 48 BAR DIAMETERS.
- 11. CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.

ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES

ROOF LIVE LOAD = 20 PSF

ROOF SNOW LOAD

GROUND SNOW LOAD (Pg) = 30 PSF SLOPED ROOF SNOW LOAD (Ps) = 21 PSF UNBALANCED SNOW LOAD FOR GABLE ROOF = 6.3 PSF SNOW THERMAL FACTOR (Ct) = 1.0 SNOW EXPOSURE FACTOR (Ce) = 1.0 SNOW LOAD IMPORTANCE FACTOR (Is) = 1.1

WIND LOAD

ASCE 7-16 RISK CATEGORY III WIND SPEED = 121 MPH WIND LOAD IMPORTANCE FACTOR (Iw) = 1.0 WIND EXPOSURE = "C" EXTERIOR WALL COMPONENTS & CLADDING FACTORED PRESSURE: AT GENERAL AREA = 29 PSF CORNER AREA = 36 PSF EARTHQUAKE DESIGN DATA

0.2 SEC SPECTRAL RESPONSE ACCELERATION - (SS) = 0.294 1.0 SEC SPECTRAL RESPONSE ACCELERATION - ((S1) = 0.061 ASCE 7-16 RISK CATEGORY III SEISMIC DESIGN CATEGORY = "B" SEISMIC IMPORTANCE FACTOR = 1.25 SITE CLASS = D DESIGN SPECTRAL ACCELERATION PARAMETERS: S DS = 0.307 S DI = 0.098

BASIC STRUCTURAL SYSTEM = INTERMEDIATE REINFORCED SHEAR WALLS: RESPONSE MODIFICATION FACTOR (R) = 3 1/2

SYSTEM OVER-STRENGTH FACTOR (Ωo) = 2 1/2 DEFLECTION AMPLIFICATION FACTOR (Cd) = 2 1/4



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h (in)	REINFORCEMENT
8"	2-#4 B.
8"	2-#5 B.
8"	2-#6 B.
1'-4"	2-#6 T. & B.



- 2. SILL PLATE ANCHORS MUST BE EMBEDDED 7" MINIMUM INTO MASONRY AND SHALL NOT BE LESS THAN 12" FROM END OF PLATE.
- 3. ROOF MUST BE IN ACCORDANCE WITH UL DESIGN P522 FOR 1HR FIRE RESISTANCE RATED ASSEMBLY ON WOOD TRUSSES. REFER TO ROOF DETAIL ON SHEET 17 OF 21 FOR ADDITIONAL INFORMATION.

PRE-ENGINEERED ROOF TRUSS TO CMU WALL

N.T.S.



CONSULTANT: ANDREW S. HOL NY PROFESSIONAL ENGINEER

13-2 KV

480V, 3PH

<u>225AF</u> 20AT

⇒3#12

SPACE HTR

EXISTING VFD TO

BE REMOVED

DEMOLITION NOTES:

MCP NO LOAD - <u>400AF</u> -<u>15AT</u> 2

N.T.S.

225 AF/200 AT

480V, 3PH SECONDARY

ТХ 3 PHASE 3Х100KVVA, 13-2 KV PRIM.

MOUNTED Z = 2%

SINGLE PHASE POLE

WIREWAY

480V, 3PH, 10KAIC

<u>150AF</u> 100AT

VFD

50HP

WELL PUMP

_ ____

GENERAL NOTES:

1. ALL NEW PANELS AND CIRCUIT BREAKERS MUST MEET OR EXCEED EXISTING SHORT CIRCUIT RATINGS.

DATE





POWER SINGLE LINE EXISTING AND DEMOLITION

 Image: Text and the second s 2 REMOVE AND DISCARD EXISTING MOTOR STARTER AND RELATED WIRING.

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CONSULTANT:

SCADA SYSTEM I/O LIST

	ECKERSON WELL STATION SCAL	JASTSTEMI/O				
No.	DESCRIPTION	WIRE NUMBER				ALOG
			INPUT	UUIPUI	INPUT	UUIPUI
-		1/5			4	
2		1/S				
3		1/S			4	1
4		1/5 T/S			1	-
5		1/3 T/S			4	
0	BAG FILTER CF-1 INLET PRESSURE	1/5			1	
1	BAG FILTER CF-1 OUTLET PRESSURE	1/5			1	
8	BAG FILTER BY-PASS STATUS	(2) #14 THHN	1			c
9	GAC FILTER GF-1 INLET PRESSURE	1/S		-	1	
10	GAC FILTER GF-1 OUTLET PRESSURE	T/S			1	
11	GAC FILTER GF-2 INLET PRESSURE	T/S		-	1	
12	GAC FILTER GF-2 OUTLET PRESSURE	T/S			1	2
13	GAC FILTER CF-1 INLET VALVE STATUS	(2) #14 THHN	1			
14	GAC FILTER CF-2 INLET VALVE STATUS	(2) #14 THHN	1			
15	CHEMICAL FEED PUMP CFP-1 FLOW PACING	(2) #14 THHN		1		-
16	CHEMICAL FEED PUMP CFP-1 REMOTE START/STOP	(2) #14 THHN		1		
17	CHEMICAL FEED PUMP CFP-1 FLOW INPUT	T/S			1	
18	CHEMICAL FEED PUMP CFP-2 FLOW PACING	(2) #14 THHN		1		
19	CHEMICAL FEED PUMP CFP-2 REMOTE START/STOP	(2) #14 THHN		1		
20	CHEMICAL FEED PUMP CFP-2 FLOW INPUT	T/S			1	
21	CHLORINE ANALYZER CA-1 READING	T/S			1	
22	CHLORINE ANALYZER CA-2 READING	T/S		1	1	
23	DISSOLVED OXYGEN ANALYZER DO-1 READING	T/S			1	
24	POWER FAIL	NONE	1			
25	BUILDING INTRUSION ALARM BI-1	(2) #14 THHN	1			
26	BUILDING INTRUSION ALARM BI-2	(2) #14 THHN	1			
27	BUILDING INTRUSION ALARM BI-3	(2) #14 THHN	1			
28	BUILDING INTRUSION ALARM BI-4	(2) #14 THHN	1			
29	BUILDING INTRUSION ALARM BI-5	(2) #14 THHN	1			
30	BACKWASH MODULATED VALVE	T/S			1	
31	EYEWASH ALERT	(2) #14 THHN	1			
32	FLOW SWITCH	(2) #14 THHN	1			
						5
	TOTAL MINIMUM TO BE PROVIDED W/ SPARE POINTS (20% MIN)	TOTAL	14	5	17	2

	HVAC SC	HEDULE
ITEM NAME	VOLTAGE	DESCRIPTION
DH-1	480V	3PH, 35KW MAIN ROOM DUCT HEATER
DH-1 INTAKE FAN	115V	1PH, MAIN ROOM DUCT HEATER INTAKE FAN
DH-2	480V	3PH, 5KW CHEMICAL ROOM DUCT HEATER
DH-2 INTAKE FAN	115V	1PH, CHEMICAL ROOM DUCT HEATER INTAKE FAN

			LIGHTING FIX	TURE SCHEE	DULE		
PLAN SYMBOL	TYPE	LOCATION	DESCRIPTION	MANUFACTURER	CATALOG NO.	REMARK	(S
	RECESSED	INDOORS	1FT X 4FT	LITHONIA	CPX-1X4-3200LMHE 80CRI-40K-SWL-MV OR APPROVED EQUAL		
	SURFACE MOUNTED	INDOORS	1FT X 4FT	HOLOPHANE	EMSL48-6000LU- LPACL-MD-MV-4K OR APPROVED EQUAL		
	WALL MOUNTED	INDOORS	EXIT SIGN	HOLOPHANE	QM LED-W-R-HO OR APPROVED EQUAL		
	WALL MOUNTED	OUTDOORS	WALL PACK	HOLOPHANE	HLWPC2-P10P40K-AS-T2M-BZ OR APPROVED EQUAL		
	WALL MOUNTED	INDOORS	TWIN HEAD EMG LIGHT	HOLOPHANE	QMLEDR OR APPROVED EQUAL		
	WALL MOUNTED	INDOORS	TWIN HEAD COMBINATION EXIT & EMG LIGHT	HOLOPHANE	QMLEDR HO WITH ELA QM WP OR APPROVED EQUAL	WITH WP REMOTE HEAD SYMBOL	K

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15KV	A MINI	CENTER						
PRIM	IARY VO	LTAGE: 480V, 3P, SEC	CONDARY VOLTA	GE: 12	20/208V, 3PH, 4W	/		
CIR.	AMP/						AMP/	CIR.
NO.	POLE	SERVICE	CONDUIT/WIRE		CONDUIT/WIRE	SERVICE	POLE	NO.
		MICROPORCESSOR	3/4"C		3/4"C	MICROPROCESSOR		
1	20/1	PUMP	2#12 + 1#12G		2#12 + 1#12G	RECEPTACLE	20/1	2
		MAGNETIC FLOW	3/4"C		3/4"C	EMERGENCY		
3	20/1	METER	2#12 + 1#12G		2#12 + 1#12G	LIGHTS	20/1	4
					3/4"C			
5	20/2		3/4"C		2#12 + 1#12G	INDOOR LIGHTS	20/1	6
	20/2		2#12 + 1#12G		3/4"C	OUTDOOR		
7					2#12 + 1#12G	LIGHTS	20/1	8
			3/4"C		3/4"C			
9	20/1	RECEPTACLES	2#12 + 1#12G		2#12 + 1#12G	DH-1 INTAKE FAN	20/1	10
			3/4"C		3/4"C			
11	20/1	RECEPTACLES	2#12 + 1#12G		2#12 + 1#12G	DH-2 INTAKE FAN	20/1	12
		EMERGENCY	3/4"C					
13	20/1	LIGHTS	2#12 + 1#12G		-	SPARE	20/1	14
15	20/1	SPARE	-		-	SPARE	20/1	16
17	20/1	SPARE	-		-	SPARE	20/1	18



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	2. LOCATION OF DOWN CONDUCTORS STALL DE DECIDED D'I THE OWNER IN THE FIELD.
	GENERAL ELECTRICAL NOTES:
- CONCRETE ANCHOR	1. ELECTRICAL SYSTEM INSTALLATION SHALL CONFORM TO ARTICLE 300 OF NFPA 70, WIRING METHODS,
	2. GROUND THE CONDUIT SYSTEMS, METAL ENCLOSURES, EQUIPMENT FRAMES, MOTORS AND RECEPTACLES IN ACCORDANCE WITH ARTICLE 250 OF NFPA 70, GROUNDING.
	3. GROUNDING CONDUITS:
	3.1. GROUND ALL METRIC CONDUITS, WIRING CHANNELS, AND ARMORED CABLES CONTINUOUSLY FROM OUTLET TO OUTLET, AND FROM OUTLETS TO CABINETS, JUNCTION BOXES, OR PULL BOXES.
	3.2. BOND EACH RUN OF RACEWAYS TO FORM A CONTINUOUS PATH FOR GROUND FAULTS END TO
	3.3. WHEN LIQUID TIGHT FLEXIBLE METAL CONDUIT SIZES LARGER THAN 1-INCH OR FLEXIBLE METAL CONDUIT ARE INSTALLED, PROVIDE EXTERNAL BOND WIRES. 4. GROUNDING BUSHINGS
- 4/0	4.1. PROVIDE ALL 1-INCH OR LARGER METALLIC CONDUITS WITH GROUNDING BUSHINGS UNLESS THEY ENTER METALLIC ENCLOSURES VIA INTEGRAL THREADED HUBS. 4.2. PROVIDE GROUNDING BUSHINGS FOR CONDUITS ENTERING THE BOTTOM OF FREESTANDING
TION	EQUIPMENT. 4.3. BOND WIRE FROM EVERY GROUNDING BUSHING TO THE EQUIPMENT GROUND STUD OR GROUND BUS IN THE ENCLOSURE.
	4.4. BIND THE GROUNDING BUSHINGS TO GROUND STUDS OR GROUND BUSES IN THE ENCLOSURES. 5. PROVIDE INSULATED, INTERNAL WIRE TO ALL PULLBOXES, JUNCTION BOXES, EQUIPMENT ENCLOSURES, AND OTHER ENCLOSURES AS REQUIRED BY NFPA 70.
	6. EQUIPMENT GROUNDING
	6.1. DESIGN ALL FEEDERS AND BRANCH CIRCUITS TO INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR CONSISTING OF A COPPER WIRE WITHIN A RACEWAY OR CABLE AND SIZES AS SPECIFIED HEREIN.
	6.2. WHERE CONDUCTORS ARE RUN IN PARALLEL IN MULTIPLE RACEWAYS, RUN THE EQUIPMENT GROUNDING CONDUCTOR IN PARALLEL TO THE RELATED CONDUCTORS.
	6.3. SIZE EACH OF THE PARALLEL EQUIPMENT GROUNDING CONDUCTORS ON THE BASIS OF THE AMPERE RATING OF THE CIRCUIT OVER CURRENT PROTECTING DEVICE.
	6.4. GROUND ENCLOSING CASES, MOUNTING FRAMES, RACK MOUNTED COMPONENTS, RACK STRUTS, SWITCHES, BREAKERS, CONTROL PANELS, MOTORS, AND OTHER ELECTRICAL OR ELECTRICALLY OPERATED EQUIPMENT BY PROVIDING AN EQUIPMENT GROUNDING CONDUCTOR WITH PHASE CONDUCTORS FROM AN ESTABLISHED EQUIPMENT GROUND SOURCE.
	7. GROUND WIRE SIZES:
	ELECTRODE CONDUCTORS, AND GROUND GRID CONDUCTORS IS AS FOLLOWS:
	7.1.1.1. PROVIDE #12 AWG, MINIMUM. 7.1.1.2. CONTROL POWER CIRCUITS, PROVIDE #14 AWG, MINIMUM
	7.1.2. OVER 600 VOLTS 7.1.2.1. FOR TRANSFORMERS, PROVIDE #2 AWG GROUND WIRE, MINIMUM.
DUCTOR	7.1.2.2. FOR MOTORS, PROVIDE #4 AWG GROUND WIRE, MINIMUM. 8. WHEN THE GROUND WIRE SIZE IS NOT SPECIFIED OR INDICATED ON THE CONTRACT DRAWINGS, PROVIDE WIRE SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 70.
	9. GROUND RODS: PROVIDE ³ /4" IN DIAMETER BY 10'- 0" LARGE RODS
2	10. PROVIDE AN APPROVED TYPE OF NON-CORROSIVE METAL FASTENER.
2	11. ALL BURIED UNDERGROUND CONNECTIONS SHALL BE EXOTHERMIC. 12. DERIVE GROUND CONNECTIONS FROM THE NEAREST GROUND BAR. FOLLOWING EQUIPMENT SHALL BE
	GROUNDED.
	12.1. METALLIC TANKS AND PIPES 12.2. NON-METALLIC TANKS OF LARGE SURFACE AREA 12.3. ALL ELECTRIC MOTOR BASES 12.4. ALL ELECTRICAL PANELS 12.5. ALL CONTROL SYSTEM PANELS
ER TO	
UCTURAL AILS	LIGHTING PROTECTION INSTITUTE (LPI) 1. THE SYSTEM DESIGN AND INSTALLATION SHALL BE PERFORMED UNDER DIRECT SUPERVISION OF A MASTER INSTALLER DESIGNER CERTIFIED BY LIGHTING PROTECTION INSTITUTE. (LPI) PROVIDE A UL MASTER LABEL FOR THE SYSTEM.
	2. PROVIDE LIGHTING PROTECTION EQUIPMENT MANUFACTURES BY ONE OF THE FOLLOWING:
	2.1. HANGER LIGHTING PROTECTION, INC.
	2.2. ERICA LIGHTING PROTECTION SYSTEM 2.3. ROBBINS LIGHTING PROTECTION SYSTEM OR APPROVED EQUAL 3. PROVIDE COPPER OR ALUMINUM MATERIALS WHICH CONFORMS TO UL 96. SIZE, WEIGHT AND
	CONSTRUCTION SHALL SUIT THE APPLICATION IN ACCORDANCE WITH LPI & NFPA CODE REQUIREMENTS FOR CLASS 1 STRUCTURES.
	 4.1. ROOF CONDUCTORS: UL LISTED CONDUCTORS OF 28 STRANDS OF 14 GA ALUMINUM WIRE WEIGHTING 114 LBS PER 1000 FT 4.2. DOWN CONDUCTORS FROM ROOF TO GROUND 29 STANDS OF 17 GAGE COPPER WIRE, MINIMUM.
	5. AIR TERMINALS: 5.1. ROOF RIDGE: ½ INCHED BY 18 INCHED SOLID ALUMINUM. 5.2. AIR TERMINAL BASE: CASE ALUMINUM WELT BOLT PRESSURE CABLE CONNECTIONS. CRIMP TYPE

CONNECTIONS ARE NOT ACCEPTABLE. 6. CONDUCTOR FASTENED SHALL BE OF NON-CORROSIVE METAL FASTENERS WITH AMPLE STRENGTH TO SUPPORT THE CONNECTORS.

7. LIGHTING PROTECTION INSTALLATION AND MATERIALS SHALL COMPLY WITH:

7.1. LPI 175, LIGHTING PROTECTION INSTITUTE INSTALLATION CODE

- 7.2. NFPA -780, LIGHTING PROTECTION SYSTEMS
- 7.3. UL 96, LIGHTING PROTECTION COMPONENTS
- 7.4. UL 96A, INSTALLATION REQUIREMENTS OF LIGHTING PROTECTION SYSTEMS.
- 7.5. ALL APPLICABLE ASTM STANDARDS.

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SUBURBAN ENGINEERING	SUEZ W	ATER NEW YORK INC PFAS COMPLIANCE ECKERSON WELL NO. 71	PROJECT NUMBER: SCE-12162.001		
	CITY OF SPRING	SCALE:			
- Civil Engineers - - Landscape Architects -	FOR CLIENT:	SUEZ WATER NEW YORK INC.	N.T.S.		
- Land Surveyors - 1ry Califon Road, Lebanon, N.J. 08833 - 973.398.1776		GROUNDING PLAN	SHEET 16OF 22		
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NOTE:

PROPOSED DRAINS FROM NEW BUILDINGS ARE TO BE PLUMBED AND DRAINED TO THE EXISTING MANHOLE ONSITE 1.

FLOOR DRAIN RISER DIAGRAM

N.T.S.

 \square



12" CMU REINFORCED BLOCK WITH REBAR REFER TO STRUCTURAL DETAILS REINFORCED CONCRETE FOOTING REFER TO STRUCTURAL DETAILS	6" CRUSHED STONE
TYF	PICAL WALL SECTION DETAIL N.T.S.

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- 1. REFER TO SHEET 12 OF 21 FOR ADDITIONAL INFORMATION AS IT RELATES TO THE CMU REINFORCEMENT, BOND BEAM, WOOD SILL, AND ASSOCIATED STRUCTURAL
- ROOF TRUSS SYSTEM MUST PROVIDE 1-HR RESISTANCE RATED ASSEMBLY FOR PROTECTION OF THE ROOF TRUSS. ROOF TRUSS DESIGN IS IN ACCORDANCE WITH UL DESIGN NUMBER P522 FOR WOODEN TRUSSES. ALL COMPONENTS MUST BE IN ACCORDANCE WITH THE UL DESIGN
 - 2.1. ROOFING SYSTEM MUST BE UL CLASSIFIED 2.2. ROOF SHEATHING IS TO BE 5/8" THICK WOOD
 - 2.3. TRUSSES TO BE FABRICATED FROM 2X4 LUMBER

 - 2.4. NO AIR DUCTS ARE TO BE INSTALLED.
 - 2.5. NO CEILING DAMPER ARE TO BE INSTALLED 2.6. INSULATION MUST BE 3-1/2" BATTS AND **BLANKETS DRAPED OVER RESILIENT CHANNEL** AND GYPSUM BOARD CEILING MEMBRANE (OR
 - 2.7. RESILIENT CHANNEL SHALL BE 1/2" DEEP 25 GAUGE CHANNEL, INSTALLED PERPENDICULAR
 - TO THE TRUSSES AT 16" O.C. 2.8. GYPSUM CEILING BOARD MUST BE 5/8" THICK, UL
- TYPE ULIX OR APPROVED EQUAL. 3. ROOF TRUSS DESIGN MUST BE SIGNED AND SEALED BY A
- 4. LUMBER SHALL BE CONSTRUCTION GRADE DOUGLAS FIR
- 5. BUILDING PAPER ON ROOF SHEATHING SHALL BE 15#
- ROOF PANEL CLIPS, TRIM, FASCIAS, CLOSURES, SEALANTS AND OTHER ACCESSORIES SHALL BE CONSISTENT WITH ASPHALT SHINGLE ROOF MANUFACTURER



Cokesbury Califon Road, Lebanon, N.J. 08833 - 973.398.1776 ECONOMY ENVIRONMENT

CONSTRUCTION DETAILS I

REVISION A



DATE



ALLOWED. MATERIAL TO BE A36 STEEL WITH A GALVANIZED



• SHIPPING WEIGHT: 650 LBS VESSEL VOLUME: 7.17 FT³

• VESSEL WILL HOUSE (QTY=4) SIZE 2 SS316 BASKETS INCLUDES AIR ELIMINATOR \$\$304 NSF CERTIFICATION

FIL-TREK CORPORATION (55 STAFFORD COURT, CAMBRIDGE, ONTARIO) MODEL S6LP20-412-6F-B-300 (LP SERIES BAG FILTER VESSEL), UNDER PART NO. 002004-01983. DETAIL AS PROVIDED BY THE MANUFACTURER AS DEPICTED ABOVE.

PROPOSED BAG FILTER SCALE = N.T.S.

ONOMY ♦ ENVIRONMENT

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-				

CONSULTANT: ANDREW S. HOL NY PROFESSIONAL ENGINEER

NOTES:

- I. SUBBASE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER. 2. EXPANSION JOINTS OF 1/2" WIDE BITUMINOUS CELLULAR TYPE JOINT FILLER WILL
- **BE PROVIDED EVERY 12' MAX IN BOTH DIRECTIONS.**
- 3. CONCRETE SURFACE SHALL BE SCORED AND TOOLED EVERY 5 FEET.
- 4. ALL EDGES SHALL BE FINISHED WITH AN EDGING TOOL WITH A RADIUS OF $\frac{1}{4}$ INCH. 5. A 3/4 INCH BITUMINOUS JOINT FILLER SHALL BE PLACED AT ALL JOINTS BETWEEN
- SIDEWALK, CURB, PAVEMENT, BUILDING, ETC. 6. THE CONCRETE SHALL BE FINISHED TO PRODUCE A SMOOTH FINISH AND THEN
- LIGHTLY BROOMED TO A UNIFORM TEXTURE. 7. A CLEAR MEMBRANE CURING COMPOUND SHALL BE USED UPON COMPLETION OF FINISHING.
- 8. ALL SIDEWALKS SHALL ADHERE TO ADA GUIDELINES.

CONCRETE SIDEWALK DETAIL

N.T.S.

SWALE TOP ELE.: 444.90

SWALE BOTTOM ELE.: 444.00

BOTTOM OF SAND ELE.: 443.00

GROUNDWATER ELE: 440.00

REQUIRED STORAGE

100-YEAR STORM BUILDING RUNOFF = 93 CF

INFILTRATION SWALE STORAGE VOLUME: 96 CF INFILTRATION SURFACE AREA (@ ELEV. 444.00) = 49 SF MAX WATER ELEVATION SURFACE AREA (@ ELEV. 444.90) = 177 SF

INFILTRATION SWALE DRAIN TIME CALCULATION *ASSUMES 0.5 IN/HR (0.041 FT/HR) (MINIMUM ALLOWABLE)

= 96 CF / (49 SF * 0.041 FT/HR) = 47.78 HRS

MAINTENANCE NOTES:

- SNOW, ICE, RAIN).
- BE MAINTAINED.

FACILITY COI

SWM SYSTEM - A (SEDIMENT AND DE COMPON

UNWANTED V

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	SEAL OR PAPER COPIES NOT CONTAINING A RAISED SEAL ARE NOT ORIGINALS AND MAY HAVE BEEN ALTERED.						03/11/2022			- Landscape Architects -		SOLZ WATER NEW TORK INC.	
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DRAIN TIME = (SWALE STORAGE VOLUME) / (INFILTRATION SURFACE AREA * INFILTRATION RATE)

1. ROUTINE MAINTENANCE OF THE SITE STORMWATER MANAGEMENT SYSTEM IS REQUIRED IN ORDER TO MAINTAIN THE STORMWATER CONVEYANCE AND CONTROL CAPABILITIES OF THE SYSTEM.

2. PERIODIC INSPECTIONS OF THE ENTIRE STORMWATER MANAGEMENT (SWM) SYSTEM BY THE OWNER'S PERSONNEL SPECIFICALLY ASSIGNED TO THIS TASK, OR A DULY AUTHORIZED REPRESENTATIVE OF THE OWNER, SHOULD OCCUR AT A MINIMUM FREQUENCY OF ONCE PER MONTH, WITH ADDITIONAL INSPECTIONS AFTER SIGNIFICANT WEATHER EVENTS (E.G.,

3. THE STRUCTURE CONDITIONS DURING THE INSPECTION SHOULD BE RECORDED, AND A LOG OF INSPECTION DATES SHALL

4. AT A MINIMUM, INSPECTIONS AND/OR MAINTENANCE OF THE SYSTEM SHOULD BE SCHEDULE AS FOLLOWS:

MPONENT	INSPECTION ITEM(S)	FREQUENCY					
ABOVEGROUND EBRIS TRAPPING NENTS)	CLOGGING, EXCESSIVE DEBRIS, AND SEDIMENT ACCUMULATION	4 TIMES/YEAR AND AFTER EVERY STORM EVENT EXCEEDING 1" OF RAINFALL					
	EXCESSIVE GROWTH (GRASS MOWING)	1 TIME / MONTH DURING GROWING SEASON					
	UNWANTED GROWTH	1 TIME / YEAR (IF REMOVAL IS REQUIRED DISRUPTION TO THE REMAINING VEGETATION SHOULD BE MINIMIZED)					
EGETATION	RESTORING / ESTABLISHING VEGETATIVE COVER WITH SEED AND ENVIRONMENTALLY FRIENDLY FERTILIZER(S) (ZERO PHOSPHATE)	2 TIMES / WEEK UNTIL VEGETATION IS ESTABILISHED (VEGETATION SHOULD BE MAINTAINED AT 85%)					
	ESTABLISHED VEGETATION HEALTH DENSITY, AND DIVERSITY	2 TIMES / YEAR, 1 TIME DURING GROWTHING SEASON AND 1 TIME DURING NON-GROWING SEASON					
	EROSION AND SCOUR	1 TIME / YEAR					

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 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 FENCE.
- 5. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET SHALL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- 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 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 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, L	JSING THE FOLLOWING	SEEDING SCHEDULE, OR EQUI
	<u>1 LB. PER ACRE</u>	<u>1 LB PER 1,000 SF</u>
KENTUCKY BLUE GRASS -	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYE GRASS -	5	0.10

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:

	<u>1 LB. PER ACRE</u>	<u>1 LB PER 1,000 S</u> F
CREEPING RED FESCUE -	10	0.45
TALL FESCUE OR SMOOTH		
BROMEGRASS -	15	0.35

- W/ PERENNIAL RYE GRASS 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.

f. INSTALL SEDIMENT CONTROL BARRIERS AROUND ALL STORM DRAIN INLETS.

g. SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OR 30 DAYS AS PER 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.

TOWN OF RAMAPO STANDARD EROSION CONTROL NOTES

AN EROSION CONTROL SYSTEM WILL BE UTILIZED BY THE DEVELOPER TO MINIMIZE THE PRODUCTION OF SEDIMENT FROM THE SITE. METHODS TO BE UTILIZED WILL BE THOSE FOUND MOST EFFECTIVE FOR THE SITE AND SHALL INCLUDE ONE OR MORE OF THE FOLLOWING, AS APPLICABLE:

1. 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 EARTHEN BERMS, RIP-RAP OR CRUSHED STONE DAMS, HAY BALES, OR OTHER SUITABLE MATERIALS. DIVERSION SWALES, BERMS, 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 COLLECTED SILT SHALL BE DEPOSITED IN AREAS SAFE FROM FURTHER EROSION.

. ALL DISTURBED AREAS, EXCEPT ROADWAYS, WHICH WILL REMAIN UNFINISHED FOR MORE THAN 30 DAYS SHALL BE TEMPORARILY SEEDED WITH 1/2 LB. OF RYE GRASS OR MULCHED WITH 100 LBS. OF STRAW OR HAY PER 1,000 SQUARE FEET. ROADWAYS SHALL BE STABILIZED AS RAPIDLY AS PRACTICABLE BY THE INSTALLATION OF THE BASE COURSE.

- SILT THAT LEAVES THE SITE IN SPITE OF THE REQUIRED PRECAUTIONS SHALL BE COLLECTED AND REMOVED AS DIRECTED BY APPROPRIATE MUNICIPAL AUTHORITIES.
- AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY SILTATION DEVICES SHALL BE REMOVED AND THE AFFECTED AREAS REGRADED, PLANTED, OR TREATED IN ACCORDANCE WITH THE APPROVED SITE PLANS.

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- ALL CONSTRUCTION TO MEET CURRENT TOWN SPECS. 18. 4" OF TOP SOIL TO BE SPREAD PRIOR TO SEEDING IN ALL DISTURBED AREAS.