SOUTH ORANGE VILLAGE
Municipal Offices
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South Orange
Essex County
New Jersey 07079

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PUBLIC WORKS & UTILITIES AGENDA

Thursday, June 17, 2021 – 8AM
Virtual WebEx Meeting

ORDER OF BUSINESS

1. Call meeting to Order

2. Roll Call
Trustee Haskins
Trustee Hartshorn Hilton
Trustee Coallier
Mike Candarella, DPW Director
Joe Foligno, DPW
Sal Renda, Village Engineer
Howard Levison, Water Utility Administrator
Lauren Mulichnik, Recording Secretary

3. APPROVAL OF MINUTES
- May 27, 2021

4. PUBLIC COMMENTS

5. REPORTS
- Public Works Report
  - Tree removal
  - Tree Maintenance
- Water Utility Report
- Joint Meeting of Essex & Union County (sewer)
- Recycling/Solid Waste Sub Committee
  - Update on Consultant work
  - Recycling Facility Site Plan
- Engineer's Report
  - Grant Projects
    - New Waterlands Bike Path and Bridge
    - Grove Road
  - Capital Projects
    - Baird Community Center
    - Connett Building
  - County Projects
    - Irvington Ave.
  - Curb and Sidewalk Program

- Striping

6. OLD BUSINESS

- Scotland Road
- Grove Park

7. NEW BUSINESS

- Curb and Sidewalk Program
- Striping
- Pedestrian Safety
- Shade Tree Commission

8. NEXT MEETING DATE

Thursday July 15 at 8:00am

9. ACTION ITEMS

10. ADJOURNMENT

Rethinking Recycling and Waste

in Maplewood and South Orange

Maplewood and South Orange are embarking on a planning process to streamline recycling and trash collection, reduce waste, and increase recycling and composting. We need your help to ensure that this process addresses the needs of each town's residents. Please help us by responding to the survey included in the link at the end of this announcement.

Did you know that each year Maplewood and South Orange residents pay over $5 million for trash disposal and an additional $1 million in tax dollars for curbside recycling collection?

What if that money could be better spent? What if it could help reduce waste, create jobs, and make Maplewood and South Orange regional leaders in community sustainability?

Streamlining Waste Services

Communities across the country are reevaluating their understanding of "waste" and choosing to adopt management practices that support the local economy, improve community health, and benefit the environment. Maplewood and South Orange are leading among New Jersey communities in providing services to help residents waste less and recycle more.

A Goal of Zero Waste

Zero Waste addresses the entire system of our stuff and can substantially reduce climate emissions by changing what and how much we buy, what resources went into making it, how long it's designed to last, how much gets reused, recycled or composted, and what we throw away. A Zero Waste community has access to the systems to make reducing, reusing and recycling easier for everyone. Households can reduce the waste we bring into our homes and "recycle right" by sorting properly and reducing contamination. Municipalities can provide policies, programs and infrastructure to create a more sustainable system.

Environmental Justice

The majority of materials that Maplewood and South Orange residents throw away are recyclable and compostable. However, what we don't recycle or compost is trucked along with the rest of our trash to an incinerator in Newark's Ironbound neighborhood where nearly 1 million tons of materials from across Essex County are burned every year. As the host of many industrial facilities, the Ironbound is already one of the most heavily burdened communities in Essex County. By adopting Zero Waste programs that divert resources from incineration to reuse, recycling, and composting, Maplewood and South Orange can help alleviate their impact on residents of the Ironbound and begin to help create a more just and equitable Essex County.

Project Outline

During the Summer of 2021, Maplewood and South Orange will be working with Zero Waste Associates, a team of Zero Waste consultants, on an ambitious goal of creating a Zero Waste Strategic Plan and a Procurement Strategy. The Procurement Strategy will help set up a new collection system bid to divert recyclable and compostable materials from the incinerator. The Zero Waste Strategic Plan will outline the goals, steps, and initiatives needed to get Maplewood and South Orange on the road toward Zero Waste.

Project Goal

The short-term goal of this project is to improve and expand the recycling and compost collection program. The long-term goal is to create a more sustainable Maplewood and South Orange, where all resources that are reusable, repairable, recyclable, or compostable are diverted from the incinerator.

Project Schedule

May - June 2021 - Stakeholder Interviews

Zero Waste Associates is conducting interviews of haulers, processors, and community groups about their services, experiences, priorities and the possible roles they will play in creating a local Zero Waste economy.

July - August 2021 - Service Opportunities and Plan Preparation

Zero Waste Associates will work with Maplewood and South Orange to assess the current opportunities to reduce, repair, reuse, recycle, and compost materials which are now incinerated. The team will draft the Zero Waste Strategic Plan and a Procurement Strategy based on conversations with the community and stakeholders. A final report of recommendations will be presented in August.

Working Group

A working group of representatives from each town is meeting every other week to guide this project.

Maplewood

Nancy Adams, Township Committeewoman
Frank McGehee, Mayor
Robert McCoy, Environmental Advisory Committee
Veda Truesdale, Green Team
Tracey Woods, Green Team
Paul Kittner, Jr. Director of Public Works
Cesare Riccardi, Superintendent of Public Works

South Orange

Bill Haskins, Board of Trustees
Karen Hartshorn Hilton, Board of Trustees
Linda Beck, Environmental Commission
Lorraine Graves, Environmental Commission
Sheena Collum, Planning Board
David Kraiker, Planning Board
Walter Clarke, Green Team
Mike Candarella, Director of Public Works
Adam Loehner, Village Administrator
Ellen Foye Malgieri, Purchasing Agent
Megan Novak, Clean Communities Coordinator

We need your help to make this a success!

Recycling and Waste Survey

Help us with the strategic planning process by filling out this short survey:
https://tinyurl.com/RecyclingandWasteSurvey

Questions? Email: somazerowaste@gmail.com

RECYCLING SHEDS

298 WALTON AVE.
BLOCK 12301, LOT 1
SOUTH ORANGE , NJ
07079

ABBREVIATIONS

AT	@
ANCHOR BOLT	A.B.
AREA DRAIN	A.D.
ADDITIONAL	ADD'L.
ADJACENT	ADJ.
ABOVE FINISH FLOOR	A.F.F.
ALUMINUM	ALUM.
APPROXIMATELY	APPROX.
ASSEMBLY	ASSY.
BOTTOM OF	B.O.
BITUMEN(OUS)	BIT.
BUILDING	BLDG.
BLOCKING	BLKG.
BEAM	BM.
CABINET	CAB.
CERAMIC TILE	C.T.
CEMENT	CEM.
CENTER LINE	CL.
CEILING	CLG.
CLEAR	CLR.
COLUMN	COL.
COMPOSITION	COMP.
CONCRETE	CONC.
CONSTRUCTION	CONSTR.
CONTINUOUS	CONT.
CONTRACTOR	CONTR.
CARPET	CPT.
CENTER	CTR.
DOUBLE	DBL.
DOUGLAS FIR	D.F.
DIAMETER	DIA.
DIMENSION	DIM.
DOWN	DN.
DOOR	DR.
DOWNSPOUT	D.S.
DETAIL	DTL.
DRAWING	DWG.
EACH	EA.
ELECTRICAL	ELEC.
ELEVATION	EL.
EQUAL	EQ.
EXISTING	EXIST. OR (E)
EXTERIOR	EXT.
FLOOR DRAIN	F.D.
FOUNDATION	FDN.
FINISH	FIN.
FLOOR	FL.
FLASHING	FLASH'G.
FACE OF CONCRETE	F.O.C.
FACE OF FINISH	F.O.F.
FACE OF MASONRY	F.O.M.
FACE OF STUD	F.O.S
FIXTURE	FIXT.
FRAMING	FRM'G.
FOOT / FEET	FT.
FOOTING	FTG.
GAUGE	GA.
GALVANIZED	GALV.
GYPSUM	GYP.
HOSE BIBB	H.B.
HOLLOW CORE	H.C.
HOLLOW METAL	H.M.
HEADER	HDR.
HORIZONTAL	HORIZ.
HEIGHT	HT.
INFORMATION	INFO.
INSULATION	INSUL.
INTERIOR	INT.
JOINT	JT.
MASONRY OPENING	M.O.
MAXIMUM	MAX.
MEMBER	MBR.
MECHANICAL	MECH.
MEMBRANE	MEMB.
MANUFACTURER	MFR.
MINIMUM	MIN.
MISCELLANEOUS	MISC.
MOUNTED	MTD.
METAL	MTL.
NOT IN CONTRACT	N.I.C.
NOT TO SCALE	N.T.S.
NATURAL	NAT.
NOMINAL	NOM.
ON CENTER	O.C.
OUTSIDE DIAMETER	O.D.
OVER HEAD	O.H.
OPENING	OPEN'G.
OPPOSITE	OPP.
PLASTIC LAMINATE	P. LAM.
PRESSURE TREATED	P.T.
PARTITION	PART'N.
PLASTER	PLAST.
PLYWOOD	PLY.
PAINTED	PTD.
ROUGH OPENING	R.O.
RADIUS	R.
REFLECTED CEILING PLAN	R.C.P.
ROOF DRAIN	RD.
REFERENCE	REF.
REINFORCEMENT	REINF.
REQUIRED	REQ'D.
ROOFING	RF'G.
ROOM	RM.
SANDBLASTED	S.B.
STORM DRAIN	S.D.
SOLID CORE	S.C.
STAINLESS STEEL	S.S.
SCHEDULE	SCHED.
SIMILAR	SIM.
SPECIFICATION	SPEC.
STRUCTURAL	STRUCT.
TEMPERED	TEMP.
TOP OF	T.O.
THICK	THK.
TYPICAL	TYP.
UNLESS OTHERWISE NOTED	U.O.N.
VERTICAL	VERT.
WATER CLOSET	W.C.
WITHOUT	W/O
WITH	W/
WITHIN	W/I
WATER PROOF	W.P.

SYMBOLS

	NORTH ARROW	3	DRAWING NUMBER
13 / A6	SECTION INTERIOR	8 / A11	ELEVATION
6 / A5	DETAIL	E	GRIDLINE DESIGNATION
93.9	NOTE DESIGNATION	127	ROOM NUMBER
4	REVISION	9	DOOR
	ELEVATION	W	WINDOW
	DIRECTION OF SLOPE	℄	CENTERLINE

GENERAL CONDITIONS OF THE CONTRACT

1. THE CONTRACT DOCUMENTS ARE ENUMERATED IN THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR (HEREINAFTER THE AGREEMENT) AND CONSIST OF THE AGREEMENT, CONDITIONS OF THE CONTRACT DRAWINGS, SPECIFICATIONS, ADDENDA ISSUED PRIOR TO EXECUTION OF THE CONTRACT, OTHER DOCUMENTS LISTED IN THE AGREEMENT AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. A MODIFICATION IS (1) A WRITTEN AMENDMENT TO THE CONTRACT SIGNED BY BOTH PARTIES, (2) A CHANGE ORDER, (3) A CONSTRUCTION CHANGE DIRECTIVE OR (4) A WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK ISSUED BY THE ARCHITECT. THE CONTRACT DOCUMENTS EXCLUDE ANY DOCUMENT OR ITEM NOT SPECIFICALLY LISTED HEREIN.

2. THE CONTRACT DOCUMENTS FORM THE CONTRACT FOR CONSTRUCTION. THE CONTRACT REPRESENTS THE ENTIRE AND INTEGRATED AGREEMENT BETWEEN THE PARTIES HERETO AND SUPERSEDES PRIOR NEGOTIATIONS, REPRESENTATIONS OR AGREEMENTS, EITHER WRITTEN OR ORAL. THE CONTRACT MAY BE AMENDED OR MODIFIED ONLY BY A WRITTEN MODIFICATION SIGNED BY BOTH OWNER AND CONTRACTOR.

3. THE TERM "WORK" MEANS THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS, WHETHER COMPLETED OR PARTIALLY COMPLETED, AND INCLUDES ALL OTHER LABOR, MATERIALS, EQUIPMENT AND SERVICES PROVIDED OR TO BE PROVIDED BY THE CONTRACTOR TO FULFILL THE CONTRACTOR'S OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT.

4. THE PROJECT IS THE TOTAL CONSTRUCTION OF WHICH THE WORK PERFORMED UNDER THE CONTRACT DOCUMENTS MAY BE THE WHOLE OR A PART AND WHICH MAY INCLUDE CONSTRUCTION BY THE OWNER AND BY SEPARATE CONTRACTORS.

5. THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL; PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INDICATED RESULTS.

6. UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS, WORDS THAT HAVE WELL-KNOWN TECHNICAL OR CONSTRUCTION INDUSTRY MEANINGS ARE USED IN THE CONTRACT DOCUMENTS IN ACCORDANCE WITH SUCH RECOGNIZED MEANINGS.

7. THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL BE DEEMED THE AUTHORS AND OWNERS OF THEIR RESPECTIVE INSTRUMENTS OF SERVICE, INCLUDING THE DRAWINGS AND SPECIFICATIONS, AND WILL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. THE CONTRACTOR, SUBCONTRACTORS, SUB-SUBCONTRACTORS, AND MATERIAL OR EQUIPMENT SUPPLIERS SHALL NOT OWN OR CLAIM A COPYRIGHT IN THE INSTRUMENTS OF SERVICE. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THIS PROJECT IS NOT TO BE CONSTRUED AS PUBLICATION IN DEROGATION OF THE ARCHITECT'S OR ARCHITECT'S CONSULTANTS' RESERVED RIGHTS.

8. THE CONTRACTOR, SUBCONTRACTORS, SUB-SUBCONTRACTORS AND MATERIAL OR EQUIPMENT SUPPLIERS ARE AUTHORIZED TO USE AND REPRODUCE THE INSTRUMENTS OF SERVICE PROVIDED TO THEM SOLELY AND EXCLUSIVELY FOR EXECUTION OF THE WORK. ALL COPIES MADE UNDER THIS AUTHORIZATION SHALL BEAR THE COPYRIGHT NOTICE, IF ANY, SHOWN ON THE INSTRUMENTS OF SERVICE. THE CONTRACTOR, SUBCONTRACTORS, SUB-SUBCONTRACTORS, AND MATERIAL OR EQUIPMENT SUPPLIERS MAY NOT USE THE INSTRUMENTS OF SERVICE ON OTHER PROJECTS OR FOR ADDITIONS TO THIS PROJECT OUTSIDE THE SCOPE OF THE WORK WITHOUT THE SPECIFIC WRITTEN CONSENT OF THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS.

9. IF THE CONTRACTOR FAILS TO CORRECT WORK THAT IS NOT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR REPEATEDLY FAILS TO CARRY OUT WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE OWNER MAY ISSUE A WRITTEN ORDER TO THE CONTRACTOR TO STOP THE WORK, OR ANY PORTION THEREOF, UNTIL THE CAUSE FOR SUCH ORDER HAS BEEN ELIMINATED.

10. IF THE CONTRACTOR DEFAULTS OR NEGLECTS TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND FAILS WITHIN A TEN-DAY PERIOD AFTER RECEIPT OF WRITTEN NOTICE FROM THE OWNER TO COMMENCE AND CONTINUE CORRECTION OF SUCH DEFAULT OR NEGLECT WITH DILIGENCE AND PROMPTNESS, THE OWNER MAY, WITHOUT PREJUDICE TO OTHER REMEDIES THE OWNER MAY HAVE, CORRECT SUCH DEFICIENCIES. IN SUCH CASE AN APPROPRIATE CHANGE ORDER SHALL BE ISSUED DEDUCTING FROM PAYMENTS THEN OR THEREAFTER DUE THE CONTRACTOR THE REASONABLE COST OF CORRECTING SUCH DEFICIENCIES. IF PAYMENTS THEN OR THEREAFTER DUE THE CONTRACTOR ARE NOT SUFFICIENT TO COVER SUCH AMOUNTS, THE CONTRACTOR SHALL PAY THE DIFFERENCE TO THE OWNER.

11. THE CONTRACTOR IS THE PERSON OR ENTITY IDENTIFIED AS SUCH IN THE AGREEMENT AND IS REFERRED TO THROUGHOUT THE CONTRACT DOCUMENTS AS IF SINGULAR IN NUMBER. THE CONTRACTOR SHALL BE LAWFULLY LICENSED, IF REQUIRED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL DESIGNATE IN WRITING A REPRESENTATIVE WHO SHALL HAVE EXPRESS AUTHORITY TO BIND THE CONTRACTOR WITH RESPECT TO ALL MATTERS UNDER THIS CONTRACT. THE TERM "CONTRACTOR" MEANS THE CONTRACTOR OR THE CONTRACTOR'S AUTHORIZED REPRESENTATIVE.

12. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

13. THE CONTRACTOR SHALL NOT BE RELIEVED OF OBLIGATIONS TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS EITHER BY ACTIVITIES OR DUTIES OF THE ARCHITECT IN THE ARCHITECT'S ADMINISTRATION OF THE CONTRACT, OR BY TESTS, INSPECTIONS OR APPROVALS REQUIRED OR PERFORMED BY PERSONS OR ENTITIES OTHER THAN THE CONTRACTOR.

14. EXECUTION OF THE CONTRACT BY THE CONTRACTOR IS A REPRESENTATION THAT THE CONTRACTOR HAS VISITED THE SITE, BECOME GENERALLY FAMILIAR WITH LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND CORRELATED PERSONAL OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

15. BECAUSE THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, THE CONTRACTOR SHALL, BEFORE STARTING EACH PORTION OF THE WORK, CAREFULLY STUDY AND COMPARE THE VARIOUS CONTRACT DOCUMENTS RELATIVE TO THAT PORTION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED BY OR MADE KNOWN TO THE CONTRACTOR AS A REQUEST FOR INFORMATION IN SUCH FORM AS THE ARCHITECT MAY REQUIRE.

16. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

17. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND OTHER PERSONS OR ENTITIES PERFORMING PORTIONS OF THE WORK FOR, OR ON BEHALF OF, THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS.

18. (NOT USED)

19. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, WATER, HEAT, UTILITIES, TRANSPORTATION, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK, WHETHER TEMPORARY OR PERMANENT AND WHETHER OR NOT INCORPORATED OR TO BE INCORPORATED IN THE WORK.

20.(NOT USED)

21. THE CONTRACTOR SHALL ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG THE CONTRACTOR'S EMPLOYEES AND OTHER PERSONS CARRYING OUT THE WORK. THE CONTRACTOR SHALL NOT PERMIT EMPLOYMENT OF UNFIT PERSONS OR PERSONS NOT PROPERLY SKILLED IN TASKS ASSIGNED TO THEM.

22. THE CONTRACTOR WARRANTS TO THE OWNER AND ARCHITECT THAT MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT WILL BE OF GOOD QUALITY AND NEW. THE CONTRACTOR FURTHER WARRANTS THAT THE WORK WILL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND WILL BE FREE FROM DEFECTS. WORK, MATERIALS, OR EQUIPMENT NOT CONFORMING TO THESE REQUIREMENTS MAY BE CONSIDERED DEFECTIVE.

23. (NOT USED)

24. (NOT USED)

25. CONCEALED OR UNKNOWN CONDITIONS. IF THE CONTRACTOR ENCOUNTERS CONDITIONS AT THE SITE THAT ARE SUBSURFACE OR OTHERWISE CONCEALED PHYSICAL CONDITIONS THAT DIFFER MATERIALLY FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL PROMPTLY PROVIDE NOTICE TO THE OWNER AND THE ARCHITECT BEFORE CONDITIONS ARE DISTURBED.

26. (NOT USED).

27. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT AND NECESSARY ASSISTANTS WHO SHALL BE IN ATTENDANCE AT THE PROJECT SITE DURING PERFORMANCE OF THE WORK. THE SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR, AND COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE CONTRACTOR.

28. THE CONTRACTOR, PROMPTLY AFTER BEING AWARDED THE CONTRACT, SHALL PREPARE AND SUBMIT FOR THE OWNER'S AND ARCHITECT'S INFORMATION A CONTRACTOR'S CONSTRUCTION SCHEDULE FOR THE WORK. THE SCHEDULE SHALL NOT EXCEED TIME LIMITS CURRENT UNDER THE CONTRACT DOCUMENTS.

29. (NOT USED)

30. (NOT USED)

31. SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS ARE NOT CONTRACT DOCUMENTS. THEIR PURPOSE IS TO DEMONSTRATE THE WAY BY WHICH THE CONTRACTOR PROPOSES TO CONFORM TO THE INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS FOR THOSE PORTIONS OF THE WORK FOR WHICH THE CONTRACT DOCUMENTS REQUIRE SUBMITTALS. REVIEW BY THE ARCHITECT IS SUBJECT TO THE LIMITATIONS DESCRIBED IN THE ARCHITECT'S WRITTEN REVIEW OF SUBMITTALS.

32. THE CONTRACTOR SHALL REVIEW FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPROVE AND SUBMIT TO THE ARCHITECT SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS REQUIRED BY THE CONTRACT DOCUMENTS IN ACCORDANCE WITH THE SUBMITTAL SCHEDULE APPROVED BY THE ARCHITECT.

33. BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS TO THE OWNER AND ARCHITECT THAT THE CONTRACTOR HAS (1) REVIEWED AND APPROVED THEM, (2) DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO AND (3) CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.

34. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK FOR WHICH THE CONTRACT DOCUMENTS REQUIRE SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNTIL THE RESPECTIVE SUBMITTAL HAS BEEN APPROVED BY THE ARCHITECT.

35. THE CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY APPLICABLE LAWS, STATUTES, ORDINANCES, CODES, RULES AND REGULATIONS, AND LAWFUL ORDERS OF PUBLIC AUTHORITIES AND THE CONTRACT DOCUMENTS AND SHALL NOT UNREASONABLY ENCUMBER THE SITE WITH MATERIALS OR EQUIPMENT.

36. (NOT USED)

37. THE CONTRACTOR SHALL KEEP THE PREMISES AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY OPERATIONS UNDER THE CONTRACT. AT COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE WASTE MATERIALS, RUBBISH, THE CONTRACTOR'S TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIALS FROM AND ABOUT THE PROJECT.

38. IF THE CONTRACTOR FAILS TO CLEAN UP AS PROVIDED IN THE CONTRACT DOCUMENTS, THE OWNER MAY DO SO AND OWNER SHALL BE ENTITLED TO REIMBURSEMENT FROM THE CONTRACTOR.

39. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT ACCESS TO THE WORK IN PREPARATION AND PROGRESS WHEREVER LOCATED.

40. TO THE FULLEST EXTENT PERMITTED BY LAW THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, ARCHITECT, ARCHITECT'S CONSULTANTS, AND AGENTS AND EMPLOYEES OF ANY OF THEM FROM AND AGAINST CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO ATTORNEYS' FEES, ARISING OUT OF OR RESULTING FROM PERFORMANCE OF THE WORK, PROVIDED THAT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF). SUCH OBLIGATION SHALL NOT BE CONSTRUED TO NEGATE, ABRIDGE, OR REDUCE OTHER RIGHTS OR OBLIGATIONS OF INDEMNITY THAT WOULD OTHERWISE EXIST AS TO A PARTY OR PERSON DESCRIBED HEREIN.

41. THE CONTRACTOR SHALL REQUIRE EACH SUBCONTRACTOR, TO THE EXTENT OF THE WORK TO BE PERFORMED BY THE SUBCONTRACTOR, TO BE BOUND TO THE CONTRACTOR BY TERMS OF THE CONTRACT DOCUMENTS, AND TO ASSUME TOWARD THE CONTRACTOR ALL THE OBLIGATIONS AND RESPONSIBILITIES, INCLUDING THE RESPONSIBILITY FOR SAFETY OF THE SUBCONTRACTOR'S WORK, WHICH THE CONTRACTOR, BY THESE DOCUMENTS, ASSUMES TOWARD THE OWNER AND ARCHITECT.

42. (NOT USED)

43. TIME LIMITS STATED IN THE CONTRACT DOCUMENTS ARE OF THE ESSENCE OF THE CONTRACT. BY EXECUTING THE AGREEMENT THE CONTRACTOR CONFIRMS THAT THE CONTRACT TIME IS A REASONABLE PERIOD FOR PERFORMING THE WORK.

44. THE CONTRACTOR SHALL PROCEED EXPEDITIOUSLY WITH ADEQUATE FORCES AND SHALL ACHIEVE SUBSTANTIAL COMPLETION WITHIN THE CONTRACT TIME.

45. WHERE THE CONTRACT IS BASED ON A STIPULATED SUM THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, BEFORE THE FIRST APPLICATION FOR PAYMENT, A SCHEDULE OF VALUES ALLOCATING THE ENTIRE CONTRACT SUM TO THE VARIOUS PORTIONS OF THE WORK AND PREPARED IN SUCH FORM AND SUPPORTED BY SUCH DATA TO SUBSTANTIATE ITS ACCURACY AS THE ARCHITECT MAY REQUIRE. THIS SCHEDULE, UNLESS OBJECTED TO BY THE ARCHITECT, SHALL BE USED AS A BASIS FOR REVIEWING THE CONTRACTOR'S APPLICATIONS FOR PAYMENT.

46. AT LEAST TEN DAYS BEFORE THE DATE ESTABLISHED FOR EACH PROGRESS PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT AN ITEMIZED APPLICATION FOR PAYMENT PREPARED IN ACCORDANCE WITH THE SCHEDULE OF VALUES.

47. APPLICATIONS FOR PAYMENT SHALL NOT INCLUDE REQUESTS FOR PAYMENT FOR PORTIONS OF THE WORK FOR WHICH THE CONTRACTOR DOES NOT INTEND TO PAY A SUBCONTRACTOR OR MATERIAL SUPPLIER, UNLESS SUCH WORK HAS BEEN PERFORMED BY OTHERS WHOM THE CONTRACTOR INTENDS TO PAY. APPLICATIONS FOR PAYMENT SHALL INCLUDE APPROPRIATE LIEN RELEASES FROM ALL SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS TO WHOM PAYMENT WILL BE DISTRIBUTED FROM AMOUNTS INCLUDED IN THE APPLICATION FOR PAYMENT.

48. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, PAYMENTS SHALL BE MADE ON ACCOUNT OF MATERIALS AND EQUIPMENT DELIVERED AND SUITABLY STORED AT THE SITE FOR SUBSEQUENT INCORPORATION IN THE WORK.

49. THE CONTRACTOR WARRANTS THAT TITLE TO ALL WORK COVERED BY AN APPLICATION FOR PAYMENT WILL PASS TO THE OWNER NO LATER THAN THE TIME OF PAYMENT. THE CONTRACTOR FURTHER WARRANTS THAT UPON SUBMITTAL OF AN APPLICATION FOR PAYMENT ALL WORK FOR WHICH CERTIFICATES FOR PAYMENT HAVE BEEN PREVIOUSLY ISSUED AND PAYMENTS RECEIVED FROM THE OWNER SHALL, TO THE BEST OF THE CONTRACTOR'S KNOWLEDGE, INFORMATION AND BELIEF, BE FREE AND CLEAR OF LIENS, CLAIMS, SECURITY INTERESTS OR ENCUMBRANCES IN FAVOR OF THE CONTRACTOR, SUBCONTRACTORS, MATERIAL SUPPLIERS, OR OTHER PERSONS OR ENTITIES MAKING A CLAIM BY REASON OF HAVING PROVIDED LABOR, MATERIALS AND EQUIPMENT RELATING TO THE WORK.

50. THE OWNER HAS THE RIGHT TO RECEIVE WRITTEN EVIDENCE FROM THE CONTRACTOR THAT THE CONTRACTOR HAS PROPERLY PAID SUBCONTRACTORS AND MATERIAL AND EQUIPMENT SUPPLIERS AMOUNTS PAID BY THE OWNER TO THE CONTRACTOR FOR SUBCONTRACTED WORK. IF THE CONTRACTOR FAILS TO FURNISH SUCH EVIDENCE WITHIN SEVEN DAYS, THE OWNER SHALL HAVE THE RIGHT TO CONTACT SUBCONTRACTORS TO ASCERTAIN WHETHER THEY HAVE BEEN PROPERLY PAID.

51.THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE PERFORMANCE OF THE CONTRACT.

52. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS FOR SAFETY OF, AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO

.1 EMPLOYEES ON THE WORK AND OTHER PERSONS WHO MAY BE AFFECTED THEREBY;
.2 THE WORK AND MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR THE CONTRACTOR'S SUBCONTRACTORS OR SUB-SUBCONTRACTORS; AND
.3 OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, SUCH AS TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.

53. THE CONTRACTOR SHALL COMPLY WITH AND GIVE NOTICES REQUIRED BY APPLICABLE LAWS, STATUTES, ORDINANCES, CODES, RULES AND REGULATIONS, AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS.

54. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PERFORMANCE OF THE CONTRACT, REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT SITES AND UTILITIES.

55. THE CONTRACTOR SHALL DESIGNATE A RESPONSIBLE MEMBER OF THE CONTRACTOR'S ORGANIZATION AT THE SITE WHOSE DUTY SHALL BE THE PREVENTION OF ACCIDENTS. THIS PERSON SHALL BE THE CONTRACTOR'S SUPERINTENDENT UNLESS OTHERWISE DESIGNATED BY THE CONTRACTOR IN WRITING TO THE OWNER AND ARCHITECT.

56. THE CONTRACTOR SHALL NOT PERMIT ANY PART OF THE CONSTRUCTION OR SITE TO BE LOADED SO AS TO CAUSE DAMAGE OR CREATE AN UNSAFE CONDITION.

57. THE CONTRACTOR SHALL PURCHASE FROM AND MAINTAIN IN A COMPANY OR COMPANIES LAWFULLY AUTHORIZED TO DO BUSINESS IN THE JURISDICTION IN WHICH THE PROJECT IS LOCATED SUCH INSURANCE AS WILL PROTECT THE CONTRACTOR FROM CLAIMS SET FORTH BELOW WHICH MAY ARISE OUT OF OR RESULT FROM THE CONTRACTOR'S OPERATIONS AND COMPLETED OPERATIONS UNDER THE CONTRACT AND FOR WHICH THE CONTRACTOR MAY BE LEGALLY LIABLE, WHETHER SUCH OPERATIONS BE BY THE CONTRACTOR OR BY A SUBCONTRACTOR OR BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE:

.1 CLAIMS UNDER WORKERS' COMPENSATION, DISABILITY BENEFIT AND OTHER SIMILAR EMPLOYEE BENEFIT ACTS THAT ARE APPLICABLE TO THE WORK TO BE PERFORMED;
.2 CLAIMS FOR DAMAGES BECAUSE OF BODILY INJURY, OCCUPATIONAL SICKNESS OR DISEASE, OR DEATH OF THE CONTRACTOR'S EMPLOYEES;
.3 CLAIMS FOR DAMAGES BECAUSE OF BODILY INJURY, SICKNESS OR DISEASE, OR DEATH OF ANY PERSON OTHER THAN THE CONTRACTOR'S EMPLOYEES;
.4 CLAIMS FOR DAMAGES INSURED BY USUAL PERSONAL INJURY LIABILITY COVERAGE;
.5 CLAIMS FOR DAMAGES, OTHER THAN TO THE WORK ITSELF, BECAUSE OF INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY, INCLUDING LOSS OF USE RESULTING THEREFROM;
.6 CLAIMS FOR DAMAGES BECAUSE OF BODILY INJURY, DEATH OF A PERSON OR PROPERTY DAMAGE ARISING OUT OF OWNERSHIP, MAINTENANCE OR USE OF A MOTOR VEHICLE;
.7 CLAIMS FOR BODILY INJURY OR PROPERTY DAMAGE ARISING OUT OF COMPLETED OPERATIONS.

VERIFY SCOPE OF INSURANCE REQUIREMENTS WITH OWNER AS INDICATED IN BID SOLICITATION. IF A DISCREPANCY EXISTS BETWEEN THESE CONDITIONS AND THE BID SOLICITATION, THE BID SOLICITATION SHALL GOVERN.

58. THE INSURANCE REQUIRED SHALL BE WRITTEN FOR NOT LESS THAN LIMITS OF LIABILITY SPECIFIED IN THE CONTRACT DOCUMENTS OR REQUIRED BY LAW, WHICHEVER COVERAGE IS GREATER. COVERAGES, WHETHER WRITTEN ON AN OCCURRENCE OR CLAIMS-MADE BASIS, SHALL BE MAINTAINED WITHOUT INTERRUPTION FROM THE DATE OF COMMENCEMENT OF THE WORK UNTIL THE DATE OF FINAL PAYMENT AND TERMINATION OF ANY COVERAGE REQUIRED TO BE MAINTAINED AFTER FINAL PAYMENT, AND, WITH RESPECT TO THE CONTRACTOR'S COMPLETED OPERATIONS COVERAGE, UNTIL THE EXPIRATION OF THE PERIOD FOR CORRECTION OF WORK OR FOR SUCH OTHER PERIOD FOR MAINTENANCE OF COMPLETED OPERATIONS COVERAGE AS SPECIFIED IN THE CONTRACT DOCUMENTS.

59. CERTIFICATES OF INSURANCE ACCEPTABLE TO THE OWNER SHALL BE FILED WITH THE OWNER PRIOR TO COMMENCEMENT OF THE WORK AND THEREAFTER UPON RENEWAL OR REPLACEMENT OF EACH REQUIRED POLICY OF INSURANCE.

60. (NOT USED)

61. THE CONTRACTOR SHALL PROMPTLY CORRECT WORK REJECTED BY THE ARCHITECT OR FAILING TO CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, WHETHER DISCOVERED BEFORE OR AFTER SUBSTANTIAL COMPLETION AND WHETHER OR NOT FABRICATED, INSTALLED OR COMPLETED. COSTS OF CORRECTING SUCH REJECTED WORK, INCLUDING ADDITIONAL TESTING AND INSPECTIONS, THE COST OF UNCOVERING AND REPLACEMENT, AND COMPENSATION FOR THE ARCHITECT'S SERVICES AND EXPENSES MADE NECESSARY THEREBY, SHALL BE AT THE CONTRACTOR'S EXPENSE.

62. IF, WITHIN ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE WORK ANY OF THE WORK IS FOUND TO BE NOT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AFTER RECEIPT OF WRITTEN NOTICE FROM THE OWNER TO DO SO. NOTHING CONTAINED IN THIS SECTION SHALL BE CONSTRUED TO ESTABLISH A PERIOD OF LIMITATION WITH RESPECT TO OTHER OBLIGATIONS THE CONTRACTOR HAS UNDER THE CONTRACT DOCUMENTS.

63. THE CONTRACT SHALL BE GOVERNED BY THE LAW OF THE PLACE WHERE THE PROJECT IS LOCATED.

DEP PERMIT BY RULE COMPLIANCE LETTER

SOUTH ORANGE DPW

300 WALTON AVENUE
LOT 1 BLOCK 2301
TOWNSHIP OF SOUTH ORANGE
ESSEX COUNTY NEW JERSEY

PERMIT BY RULE
COMPLIANCE STATEMENT

PREPARED BY:

PETRY ENGINEERING, LLC
155 PASSAIC AVENUE
FAIRFIELD, NEW JERSEY 07004

April 2, 2021

J. Michael Petry, PE
N.J. Lic. No. 36662

INTRODUCTION

The subject property is located at 300 Walton Avenue, South Orange, Lot 1 Block 2301. The property is currently being used as a DPW storage yard.

Currently along the westerly property line is an existing lean-to structure which is used for storing garbage trucks. The lean-to has fallen into disrepair in recent years, and the Township has decided that it is time reconstruct it.

Based on the FEMA Flood Insurance Rate Map (FIRM) Panel 34013C0132F, the lean-to is located either within or very close to the Flood Hazard Area. As such, we have prepared this certification to ensure compliance with potentially-applicable Flood Hazard Regulations.

PROPOSED IMPROVEMENTS

The proposed plans call for the in-kind replacement of the structure, in keeping with NJDEP Permit-By-Rule 3. Below is a breakdown of how the proposed improvements comply with Permit-By-Rule 3:

Permit-by-rule 3 authorizes the in-kind replacement of a lawfully existing structure, provided the conditions at N.J.A.C. 7:13-6.7 are met and:

1. The structure is not located within a floodway;

   While the proposed structure is located within the Flood Hazard Area, the structure is not located within the Floodway.

2. The structure being replaced is not a retaining wall or bulkhead subject to the requirements of N.J.A.C. 7:13-12.13 or a habitable building;

   As mentioned above the existing and proposed structure is a lean-to shed meant to store garbage trucks.

3. No riparian zone vegetation is cleared, cut, and/or removed, except for vegetation within 20 feet of the structure, where such disturbance is necessary to facilitate its replacement; and

   The structure is located approximately 240' feet from the East Branch of the Rahway River, and is separated from the vegetation along the river with 180' feet of pavement. As such no riparian zone vegetation will be cleared. Furthermore, we do not anticipate more that 20' of disturbance around the lean-to.

4. No more than one-quarter acre of riparian zone vegetation is cleared, cut, and/or removed.

   As mentioned above, no riparian zone vegetation is proposed to be cleared.

NOTES:

1. PER THE FEMA FIRMETTE BELOW, IT IS NOT POSSIBLE TO PRECISELY LOCATE THE EXISTING AND PROPOSED STRUCTURES WITH RESPECT TO THE FLOOD ZONE BOUNDARY.

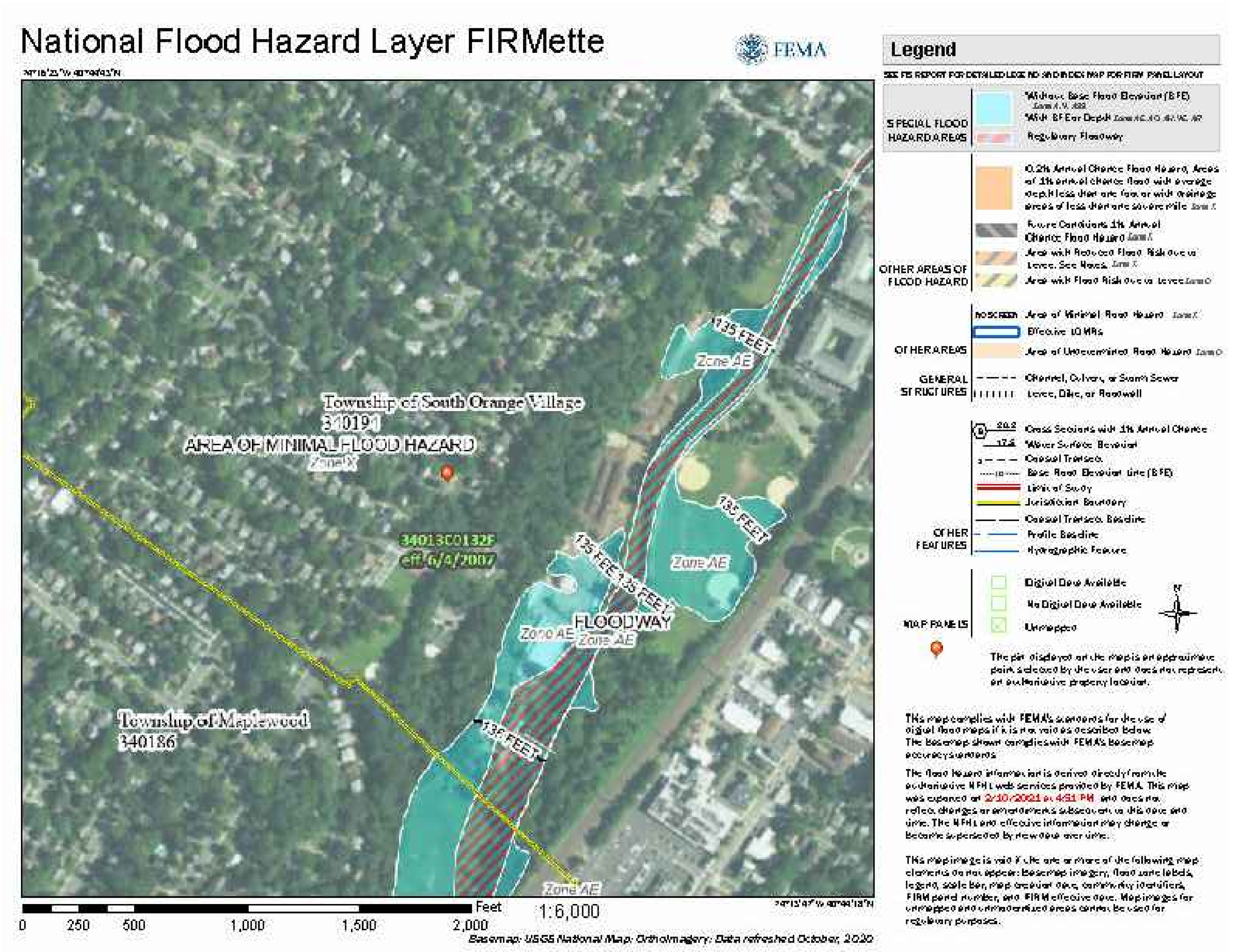
2. THE FEMA FIRMETTE BELOW INDICATES THAT THE BASE FLOOD ELEVATION IS 135.0 FEET.

3. TOPOGRAPHIC DATA ON FILE WITH THE TOWNSHIP ENGINEER INDICATES THAT THE EXISTING STRUCTURE IS SITUATED AT AN ELEVATION OF APPROXIMATELY 137.0 FEET.

4. THE TOWNSHIP SHALL EMPLOY A LICENSED LAND SURVEYOR TO DETERMINE THE ELEVATION OF THE EXISTING STRUCTURE.

5. IF ANY PART OF THE PROPOSED STRUCTURE SHALL BE SITUATED WITHIN THE FLOOD ZONE, THE TOWNSHIP ENGINEER SHALL NOTIFY THE ARCHITECT PROMPTLY.

FEMA FIRMETTE



PROJECT DESCRIPTION

1. DEMOLITION AND REMOVAL OF EXISTING RECYCLING SHEDS
2. CONSTRUCTION OF NEW SHEDS.

PROJECT DIRECTORY

OWNER:	TOWNSHIP OF SOUTH ORANGE VILLAGE 76 SOUTH ORANGE AVE. SUITE 302 SOUTH ORANGE, NJ 07079 ADAM LOEHNER, VILLAGE ADMINISTRATOR PETER TRAVERS, DEPUTY DIRECTOR, DEPT. OF RECREATION
ARCHITECT:	ALEXANDER C. ELIAS, RA, NCARB, LEED AP ALEXANDER ELIAS ARCHITECTURE, LLC 76 SOUTH ORANGE AVE., SUITE 310 SOUTH ORANGE, NJ 07079 TEL: 973-327-4787 EMAIL: ace@ae-arch.com
CONTRACTOR:	TBD

LEGAL DESCRIPTION

LOT: 1
BLOCK: 12301

PROPERTY SITUATED IN THE TOWNSHIP OF SOUTH ORANGE VILLAGE, ESSEX COUNTY, NEW JERSEY

SHEET INDEX

CODE REFERENCE

2018 NJ BUILDING CODE

BUILDING CODE ANALYSIS

EXISTING BUILDING SQUAREFOOTAGE
EXISTING BUILDING: 744 SF

PROPOSED BUILDING SQUAREFOOTAGE
PROPOSED BUILDING: 883 SF

PROPOSED OCCUPANCY
S1 MODERATE HAZARD STORAGE 883 SF

TABLE 504.3 ALLOWABLE BUILDING HEIGHT

OCCUPANCY	TYPE VB
S	40'

TABLE 504.4 ALLOWABLE NUMBER OF STORIES

OCCUPANCY	TYPE VB
S-2, NON-SPRINKLERED	3 STORIES

TABLE 506.2 ALLOWABLE AREA FACTOR

OCCUPANCY	TYPE VB
S-2, NON-SPRINKLERED	13,500SF

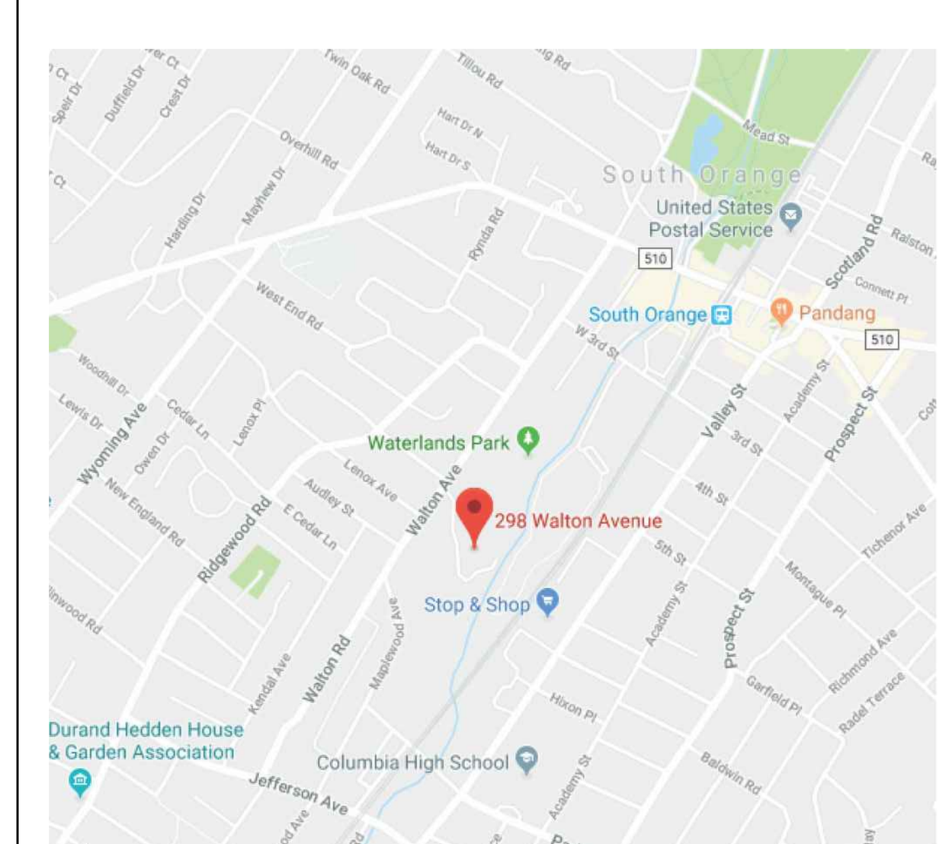
TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS

	TYPE VB
PRIMARY STRUCTURAL FRAME	0
EXTERIOR BEARING WALLS	0
NON BEARING WALLS/ PART'NS.	0
ROOF CONSTRUCTION	0

ZONING NOTES

ZONE:	OS/PU (OPEN SPACE/ PUBLIC USE
PERMITTED USE:	PUBLIC BUILDINGS AND USES OPERATED BY THE TOWNSHIP.
MINIMUM LOT SIZE:	10,000 SQUARE FEET
LOT SIZE PROVIDED:	10.27 ACRES

LOCATION MAP



ALEXANDER ELIAS
ARCHITECTURE, LLC

76 SOUTH ORANGE AVENUE SUITE 310
SOUTH ORANGE, NJ 07079
973.327.4787

RECYCLING SHEDS
DEPARTMENT OF PUBLIC WORKS
TOWNSHIP OF SOUTH ORANGE VILLAGE
298 WALTON AVE.
SOUTH ORANGE, NJ 07079

SUBMISSIONS/ REVISIONS

NO.	DATE	ISSUE
1	04-08-21	100% CD SET

NOT FOR CONSTRUCTION

DATE:

ALEXANDER C. ELIAS
LICENSE # 21AI011992600

OWNER
TOWNSHIP OF SOUTH ORANGE VILLAGE
76 SOUTH ORANGE AVE.
SUITE 302
SOUTH ORANGE, NJ 07079

SHEET TITLE
TITLE SHEET
GENERAL CONDITIONS
VICINITY PLAN
CODE ANALYSIS

SHEET
T1.0

STRUCTURAL NOTES AND SPECIFICATIONS

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF N.J.A.C. 5:23, "UNIFORM CONSTRUCTION CODE REGULATIONS", LATEST EDITION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS CODE, WITH THE SPECIFICATION, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.

GENERAL

1. THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS OF MATERIALS INDICATED IN THE DESIGN CRITERIA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING, SHORING, ETC.

DESIGN CRITERIA

LEVEL	SUPERIMPOSED DEAD LOAD (PSF)			TOTAL SDL	LIVE LOAD
	CONST. MAT.	M & E	MISC./FINISHES		
1ST FLOOR	10	5	5	20	40 PSF
2ND FLOOR	10	5	5	20	40 PSF
3RD FLOOR	10	5	5	20	40 PSF
ATTIC w/o STORAGE	10	5	5	20	10 PSF
ROOF	10	5	5	20	25 PSF *

* SNOW DRIFT LOAD HAS BEEN CALCULATED WHERE APPLICABLE.

ROOF SNOW LOAD:
GROUND SNOW LOAD (Pg) = 30 PSF
FLAT-ROOF SNOW LOAD (Pf) = 25 PSF
SNOW EXPOSURE FACTOR (Ce) = 1.0
SNOW LOAD IMPORTANCE FACTOR (I) = 1.0
THERMAL FACTOR (Ct) = 1.0
SNOW DRIFT LOAD HAS BEEN CONSIDERED WHERE REQUIRED.

2. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL STRUCTURAL ELEVATIONS AND DIMENSIONS WITH EXISTING CONDITIONS AND WITH OTHER PROJECT DRAWINGS. COORDINATE LOCATION OF SLEEVES AND OPENINGS THROUGH THE STRUCTURE, SLAB DEPRESSIONS, FLOOR DRAINS, INSERTS, AND OTHER RELATED ITEMS.
3. CONTRACTOR SHALL BE SOLEY RESPONSIBLE FOR THE CORRECTNESS OF DIMENSIONS OR QUANTITIES AND FOR THE FITTING TO OTHER WORK; FOR WORK TO BE CONFIRMED AND CORRELATED AT THE SITE; FOR INFORMATION PERTAINING TO THE FABRICATION PROCEDURE OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; AND FOR THE COORDINATION OF STRUCTURAL WORK WITH THE WORK OF ALL OTHER TRADES. THE VERIFICATION OF THE PHYSICAL INTERRELATIONSHIPS OF ELEMENTS OF THE WORK FROM PLANS AND SPECIFICATIONS AND IN THE FIELD IS THE CONTRACTOR'S SOLE RESPONSIBILITY. REVIEW OF THE CONTRACTOR'S SUBMISSIONS DOES NOT RELIEVE THE CONTRACTOR FROM THESE RESPONSIBILITIES.
4. PROPOSED OPENINGS OR RECESSES IN THE STRUCTURE WHICH ARE NOT SHOWN IN THE STRUCTURAL DRAWINGS, EITHER DIRECTLY OR BY TYPICAL DETAIL, SHALL BE SUBMITTED FOR ACCEPTANCE.
5. IN CASE OF CONTRADICTION BETWEEN THE DRAWINGS, THE SPECIFICATIONS, AND THE CODES, OR IF ANY CHANGE IS REQUIRED, THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IMMEDIATELY. NO CHANGE SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

FOUNDATIONS:

1. FOUNDATIONS HAVE BEEN DESIGNED TO AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF ON VIRGIN SOIL. SHOULD CONDITIONS VARY FROM THOSE ASSUMED, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE CONTINUATION OF WORK.
2. ALL FOOTINGS SHALL BE PLACED DIRECTLY ON VIRGIN SOIL, CERTIFIED COMPACTED FILL, OR ROCK.
3. CONCRETE FOR FOUNDATIONS:
   A. ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE A.C.I. BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (318-02 ULTIMATE STRENGTH DESIGN).
   B. ALL CONCRETE SHALL BE MIXED, TRANSPORTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS 318, 304, AND 301, LATEST EDITIONS.
   C. PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES:

fc (PSI)	COURSE AGGREGATE	LOCATION
4000	NORMAL WEIGHT	U.O.N.

4. SEE REINFORCED CONCRETE NOTES FOR ADDITIONAL INFORMATION.
5. ALL FILL SHALL BE PLACED IN TWELVE INCH LOOSE LIFTS (MAXIMUM) COMPACTED TO PROVIDE 95% OF MAXIMUM DRY DENSITY BELOW PROPOSED FOOTINGS AND SLABS.
6. ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 3'-6" BELOW FINAL GRADE WHEN BEARING ON SOIL.
7. DEWATERING SHALL BE PROVIDED AS REQUIRED SO THAT EXCAVATION, CONCRETE WORK AND BACKFILLING ARE TO BE PERFORMED IN THE DRY.
8. BACKFILL AGAINST FOUNDATION WALLS OR CMU RETAINING WALLS SHALL NOT BE PERFORMED FOR A MINIMUM OF SEVEN DAYS AFTER CONSTRUCTION IS COMPLETED.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE BOTTOM OF FOOTING ELEVATION IS CHANGED AND OBTAIN REVISED DESIGN OF THE FOUNDATION WALLS AS REQUIRED.

REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE ACI 301, 304, AND ACI 318, LATEST EDITIONS.
2. THE CONCRETE MIX SHALL CONFORM TO THE PROVISIONS FOR CONCRETE QUALITY CONTAINED IN CHAPTER 5, ACI 318. COMPRESSIVE STRENGTH, fc, IS MEASURED AT 28 DAYS AGE.

fc (PSI)	MINIMUM CEMENT POUNDS PER C.Y.	LOCATION
4000 NORMAL WEIGHT	610	ALL

3. PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES:

fc (PSI)	COURSE AGGREGATE	MAXIMUM SLUMP INCHES	MAXIMUM WATER CEMENT RATIO
4000	NORMAL WEIGHT	5	0.46

4. UNLESS OTHERWISE NOTED:
   A. ALL REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
   B. ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A185.
5. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED, REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY IN ACCORDANCE WITH ACI 318.
6. REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACI 318, FORM THE BASIS FOR BAR EMBEDMENT LENGTHS AND BAR SPLICE LENGTHS SHOWN IN THE DRAWINGS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP-STEEL, BAR SPLICING, COVER, AND THE LIKE.
7. DETAILING OF REINFORCING STEEL SHALL CONFORM TO ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
8. LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER.
9. SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 8 INCHES.
10. WELDING OF REINFORCING BARS IS NOT PERMITTED UNLESS SPECIFICALLY CALLED FOR IN THE DRAWINGS.
11. ALL REINFORCMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE 16 GAGE CONFORMING TO ASTM A82.
12. REINFORCING STEEL SUPPORTED ON THE GROUND SHALL BE PLACED ON PRECAST BLOCKS PRODUCED SPECIFICALLY FOR THE INTENDED PURPOSE.
13. BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
14. REINFORCING STEEL SHALL BE PLACED TO PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER, UNLESS OTHERWISE INDICATED:

SLABS/FOOTINGS/FOUNDATIONS	3"

15. NON-SHRINK GROUT SHALL BE PREMIXED AND BAGGED BY MANUFACTURER. ACCEPTABLE NON-SHRINK GROUT: MASTERFLOW 713 BY MASTER BUILDERS OR ACCEPTED BY THE ENGINEER.

CONCRETE MASONRY UNITS (CMU):

1. ALL MASONY WORK SHALL COMPLY WITH THE LOCAL BUILDING CODE AND "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530.1, LATEST EDITION. IF THERE SHOULD BE ANY CONFLICT BETWEEN THE CODES, THE LOCAL CODE SHALL TAKE PRECEDENCE.
2. ALL CONCRETE MASONRY UNITS SHALL BE HOLLOW NORMAL WEIGHT LOAD BEARING UNITS CONFORMING TO ASTM C90, GRADE N-TYPE I WITH MINIMUM COMPRESSIVE STRENGTH OF UNITS = 2350 PSI ON NET AREA, WITH ASSUMED DESIGN COMPRESSIVE STRENGTH, f'm=1500 PSI. MANUFACTURER AND SUPPLIER OF UNITS TO SUBMIT CERTIFICATION LETTER TO THE ARCHITECT/ENGINEER, VERIFYING COMPRESSIVE STRENGTHS OF THE UNITS.
3. ALL UNITS SHALL BE PLACED IN RUNNING BOND. ALL UNITS SHALL BE WITH FULL HEAD AND BED JOINTS.
4. MORTAR SHALL BE TYPE M
5. HORIZONTAL REINFORCEMENT SHALL BE 9 GA. ASTM A82 GALV. TRUSS TYPE 16" O.C. AND AT FIRST AND SECOND BED JOISTS ABOVE AND BELOW WALL OPENINGS.
6. STORE ALL UNITS OFF GROUND TO PREVENT CONTAMINATION. COVER MATERIALS TO PROTECT FROM THE ELEMENTS.
7. LINTELS AND BEARING PLATES BY THE MASON SHALL BE SET IN A FULL BED OF MORTAR.
8. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL MORTAR HAS ATTAINED MAXIMUM STRENGTH. WHERE BACKFILL IS PLACED AGAINST FOUNDATION WALLS BEFORE FLOOR CONSTRUCTION IS IN PLACE, PROVIDE TEMPORARY BRACING.
9. ALL MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION TO RESIST WIND LOADS OF 25 PSF. NOTE THAT FLOOR AND ROOF DIAPHRAGMS WILL PROVIDE ULTIMATE STABILITY FOR WALLS. UNTIL THESE ARE IN PLACE, MASONRY WALLS SHALL NOT BE BUILT HIGHER THAN 10 TIMES THEIR THICKNESS WITHOUT BRACING.
10. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN 1" HORIZONTAL IN 6" VERTICAL. VERTICAL WALL REINFORCEMENT MAY BE GROUTED INTO AN ADJACENT CELL TO MAINTAIN THE VERTICAL ALLIGNMENT.
11. CELLS CONTAINING REINFORCING, MASONRY ANCHORS, DOWELS AND THE LIKE SHALL BE SOLIDLY FILLED WITH GROUT. POURS SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A COURSE TO FORM A KEY AT POUR JOINTS.
12. BEAM, GIRDER AND OTHER CONCENTRATED LOADS SHALL BEAR ON SOLID MASONRY OR FILLED CORES OF BLOCK AT LEAST 3 BLOCK COURSES BELOW THE BEAM AND 1'-6" EACH SIDE OF THE CONCENTRATED LOAD.
13. PROVIDE TWO ADDITIONAL VERTICAL #4 BAR (CONTINUOUS) EACH SIDE OF MASONRY OPENING.

TIMBER

1. ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION.
2. ALL SAWN DIMENSIONAL TIMBER SHALL MEET THE MINIMUM VISUALLY GRADED LUMBER REQUIREMENTS OF DOUGLAS FIR/ LARCH #2 GRADE OR BETTER.
3. ALL MICROLLAMS SHALL BE 2.0E MICROLLAM LVL, Fb=2600 PSI AND E=2,000,000 PSI, SIZE AS INDICATED ON DRAWINGS.
4. ALL PARALLAM COLUMNS SHALL BE 1.8E PARALLAM PSL BY iLEVEL TRUS JOIST, Fcll=2,500 PSI AND E=1,800,000 PSI, SIZE AS INDICATED ON DRAWINGS.
5. WHERE MICROLLAM AND PARALLAM SECTIONS ARE INDICATED TO BEAR ON SUPPORTING FRAMING, FULL WIDTH BEARING SHALL BE PROVIDED. MINIMUM BEARING LENGTH FOR SECTIONS SHALL BE 3" UNLESS INDICATED OTHERWISE.
6. INSTALL MICROLLAMS AND PARALLAMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS USING ALL RECOMMENDED STIFFENERS, BLOCKING, AND FASTENERS.
7. EXCEPT AS OTHERWISE NOTED ON DRAWINGS, ALL TIMBER SHALL BE FASTENED IN ACCORDANCE WITH THE FASTENING SCHEDULE (TABLE 2304.10.1) SPECIFIED IN THE INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION.
8. ALL WOOD FOR EXTERIOR USE OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE EXTERIOR GRADE (PRESSURE TREATED).
9. PROVIDE PRE-MANUFACTURED GALVANIZED STEEL CONNECTION HARDWARE AT ALL TIMBER CONNECTIONS WHERE POSSIBLE. ALL TIMBER CONNECTION HARDWARE SHALL BE PRE-MANUFACTURED GALVANIZED STEEL . BASIS OF DESIGN IS SIMPSON STRONG-TIE CO., INC. CONNECTIONS SHALL BE NAILED AND/OR BOLTED AS PER MANUFACTURER'S REQUIREMENTS.
10. SHEATHING FOR ROOFS SHALL BE ⅝" APA RATED SHEATHING 32/16 EXPOSURE 1
11. SHEATHING FOR WALLS SHALL BE PLYWOOD TYPE T1-11, ROUGH SAWN, REVERSE BOARD & BATTEN, 8" GROOVE SPACING, 19/32 CAT, 0.578 THICKNESS. PRIMARY SPECIES SOUTHERN YELLOW PINE, TESTING AGENCY APA®-THE ENGINEERED WOOD ASSOCIATION. CLASSIFICATION EXTERIOR – PLYWOOD SUITABLE FOR REPEATED WETTING AND REDRYING OR LONG-TERM EXPOSURE TO WEATHER AND OTHER CONDITIONS OF SIMILAR SEVERITY. CODE FIRE CLASSIFICATION CLASS III OR C, FLAME SPREAD RATING 75-200, SMOKE-DEVELOPED INDEX <450. BUILDING CODE COMPLIANCE PS 1-09.

2018 IBC TABLE 2304.10.1: FASTENING SCHEDULE

TABLE 2304.10.1 FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Roof		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common (2½" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each end, toenail
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common (2½" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples	Each end, toenail
	2-16 d common (3½" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples	End nail
Flat blocking to truss and web filler	16d common (3½" × 0.162") @ 6" o.c. 3" × 0.131" nails @ 6" o.c. 3" × 14 gage staples @ 6" o.c	Face nail
2. Ceiling joists to top plate	3-8d common (2½" × 0.131"; or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1)	3-16d common (3½" × 0.162"; or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1)	Per Table 2308.7.3.1	Face nail
5. Collar tie to rafter	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5)	3-10 common (3" × 0.148"); or 3-16d box (3½" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Toenail[c]
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common (3½" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown; or	End nail
	3-10d common (3" × 0.148"); or 4-16d box (3½" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Toenail

(continued)

TABLE 2304.10.1—continued FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Wall		
8. Stud to stud (not at braced wall panels)	16d common (3½" × 0.162");	24" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (3½" × 0.162"); or	16" o.c. face nail
	16d box (3½" × 0.135"); or	12" o.c. face nail
	3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	12" o.c. face nail
10. Built-up header (2" to 2" header)	16d common (3½" × 0.162"); or	16" o.c. each edge, face nail
	16d box (3½" × 0.135")	12" o.c. each edge, face nail
11. Continuous header to stud	4-8d common (2½" × 0.131"; or 4-10d box (3" × 0.128")	Toenail
12. Top plate to top plate	16d common (3½" × 0.162"); or	16" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common (3½" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or block-ing (not at braced wall panels)	16d common (3½" × 0.162"); or	16" o.c. face nail
	16d box (3½" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or block-ing at braced wall panels	2-16d common (3½" × 0.162"); or 3-16d box (3½" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	16" o.c. face nail
16. Stud to top or bottom plate	4-8d common (2½" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or	Toenail
	2-16d common (3½" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	End nail
17. Top plates, laps at corners and intersections	2-16d common (3½" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Face nail

(continued)

TABLE 2304.10.1—continued FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Wall		
18. 1" brace to each stud and plate	2-8d common (2½" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Face nail
19. 1" x 6" sheathing to each bearing	2-8d common (2½" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
20. 1" × 8" and wider sheathing to each bearing	3-8d common (2½" × 0.131"); or 3-10d box (3" × 0.128")	Face nail
Floor		
21. Joist to sill, top plate, or girder	3-8d common (2½" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Toenail
22. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (2½" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	6" o.c., toenail
23. 1" × 6" subfloor or less to each joist	2-8d common (2½" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
24. 2" subfloor to joist or girder	2-16d common (3½" × 0.162")	Face nail
25. 2" planks (plank & beam – floor & roof)	2-16d common (3½" × 0.162")	Each bearing, face nail
26. Built-up girders and beams, 2" lumber layers	20d common (4" × 0.192")	32" o.c., face nail at top and bot-tom staggered on opposite sides
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	24" o.c. face nail at top and bot-tom staggered on opposite sides
	And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Ends and at each splice, face nail
27. Ledger strip supporting joists or rafters	3-16d common (3½" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Each joist or rafter, face nail
28. Joist to band joist or rim joist	3-16d common (3½" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	End nail
29. Bridging or blocking to joist, rafter or truss	2-8d common (2½" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Each end, toenail

(continued)

TABLE 2304.10.1—continued FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION	
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing[a]			
		Edges (inches)	Intermediate supports (inches)
30. 3/8" – 1/2"	6d common or deformed (2" × 0.113") (subfloor and wall)	6	12
	8d common or deformed (2½" × 0.131") (roof) or RSRS-01 (2½" × 0.113") nail (roof)[d]	6	12
	2½" × 0.113" nail (subfloor and wall)	6	12
	1½" 16 gage staple, 7/16" crown (subfloor and wall)	4	8
	2¼" × 0.113" nail (roof)	4	8
	1¼" 16 gage staple, 7/16" crown (roof)	3	6
31. 19/32" – 3/4"	8d common (2½" × 0.131"); or 6d deformed (2" x 0.113") (subfloor and wall)	6	12
	8d common or deformed (2½" × 0.131") (roof) or RSRS-01 (2½" × 0.113") nail (roof)[d]	6	12
	2½" × 0.113" nail; or 2" 16 gage staple, 7/16" crown	4	8
32. 7/8" – 1 1/4"	10d common (3" × 0.148"); or 8d deformed (2½" × 0.131")	6	12
Other exterior wall sheathing			
33. 1/2" fiberboard sheathing[b]	1½" galvanized roofing nail (7/16" head diameter); or 1½" 16 gage staple with 7/16" or 1" crown	3	6
34. 25/32" fiberboard sheathing[b]	1¾" galvanized roofing nail (7/16" diameter head); or 1½" 16 gage staple with 7/16" or 1" crown	3	6
Wood structural panels, combination subfloor underlayment to framing			
35. 3/4" and less	8d common (2½" × 0.131"); or 6d deformed (2" x 0.113")	6	12
36. 7/8" – 1"	8d common (2½" × 0.131"); or 8d deformed (2½" × 0.131")	6	12
37. 1 1/4" – 1 1/4"	10d common (3" × 0.148"); or 8d deformed (2½" × 0.131")	6	12
Panel siding to framing			
38. 1/2" or less	6d corrosion-resistant siding (1 7/8" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099")	6	12
39. 7/8"	8d corrosion-resistant siding (2½" × 0.128"); or 8d corrosion-resistant casing (2½" × 0.113")	6	12

(continued)

TABLE 2304.10.1—continued FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION	
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing[a]			
		Edges (inches)	Intermediate supports (inches)
Interior paneling			
40. 1/4"	4d casing (1½" × 0.080"); or 4d finish (1½" × 0.072")	6	12
41. 1/4"	6d casing (2" × 0.099"); or 6d finish (Panel supports at 24 inches)	6	12

For SI: 1 inch = 25.4 mm.

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.
b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).
c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.
d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

ALEXANDER ELIAS ARCHITECTURE, LLC
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RECYCLING SHEDS
DEPARTMENT OF PUBLIC WORKS
TOWNSHIP OF SOUTH ORANGE VILLAGE
298 WALTON AVE.
SOUTH ORANGE, NJ 07079

SUBMISSIONS/ REVISIONS

NO.	DATE	ISSUE
1	04-08-21	100% CD SET

NOT FOR CONSTRUCTION

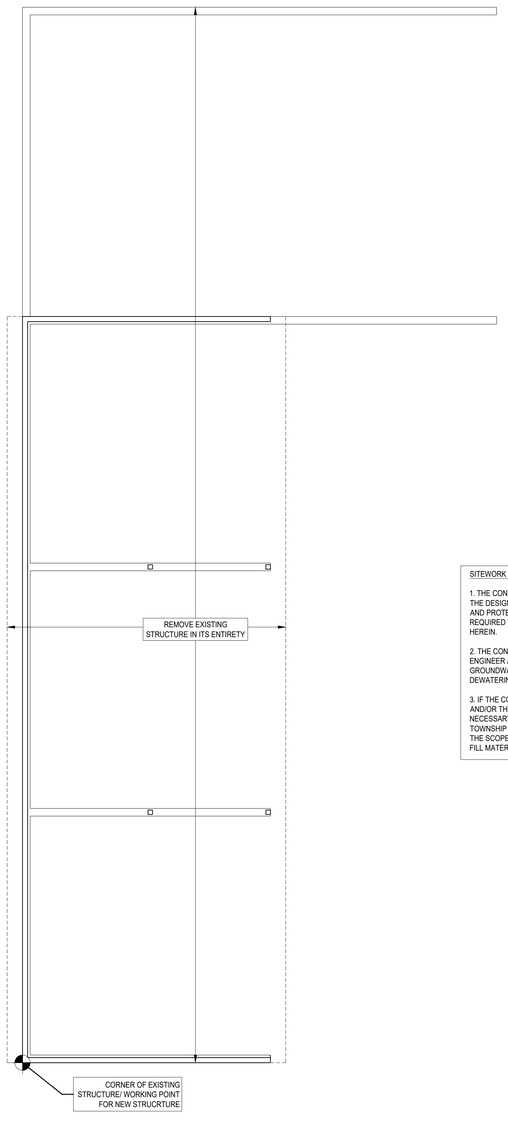
DATE:

ALEXANDER C. ELIAS
LICENSE # 21AI011992600

OWNER
TOWNSHIP OF SOUTH ORANGE VILLAGE
76 SOUTH ORANGE AVE.
SUITE 302
SOUTH ORANGE, NJ 07079

SHEET TITLE
STRUCTURAL NOTES
FASTENING SCHEDULE

SHEET
T1.1

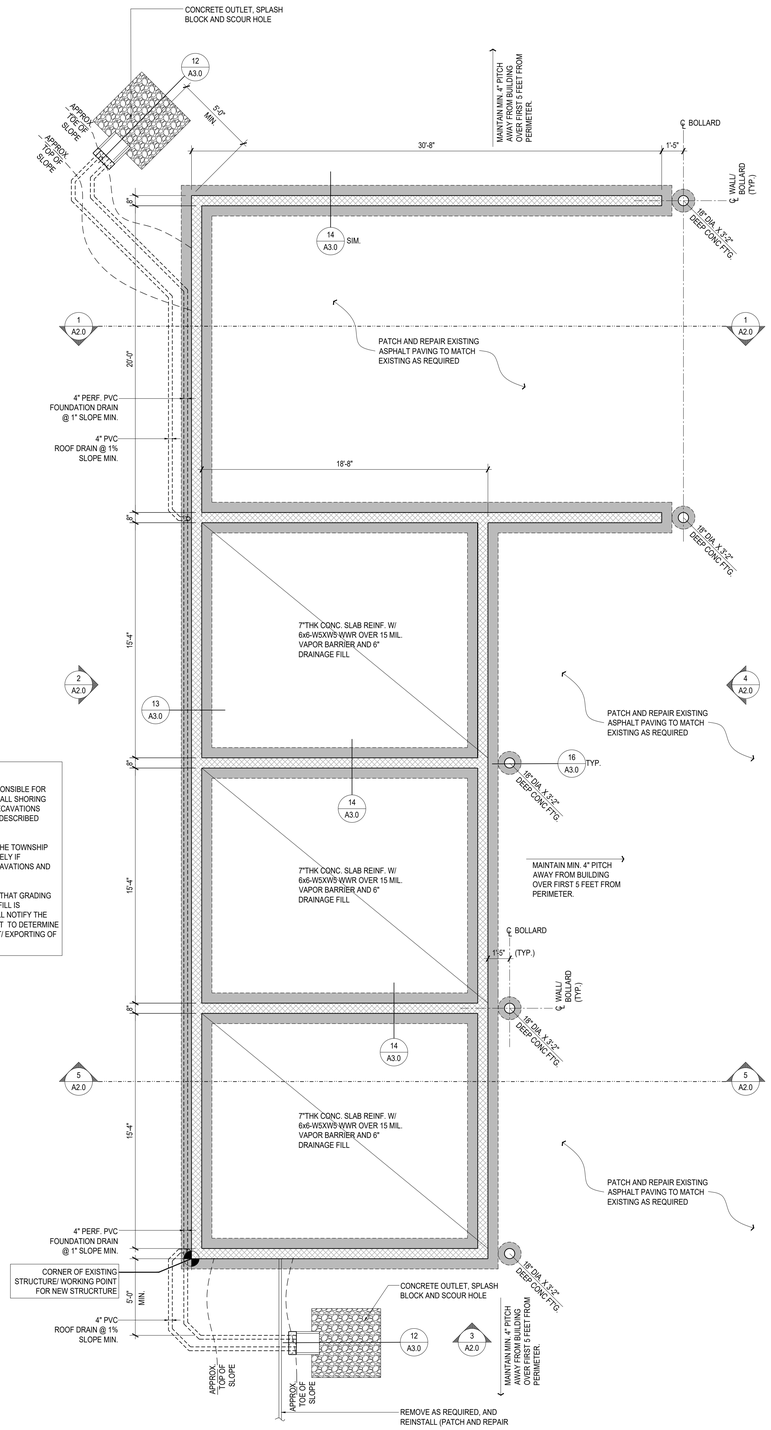


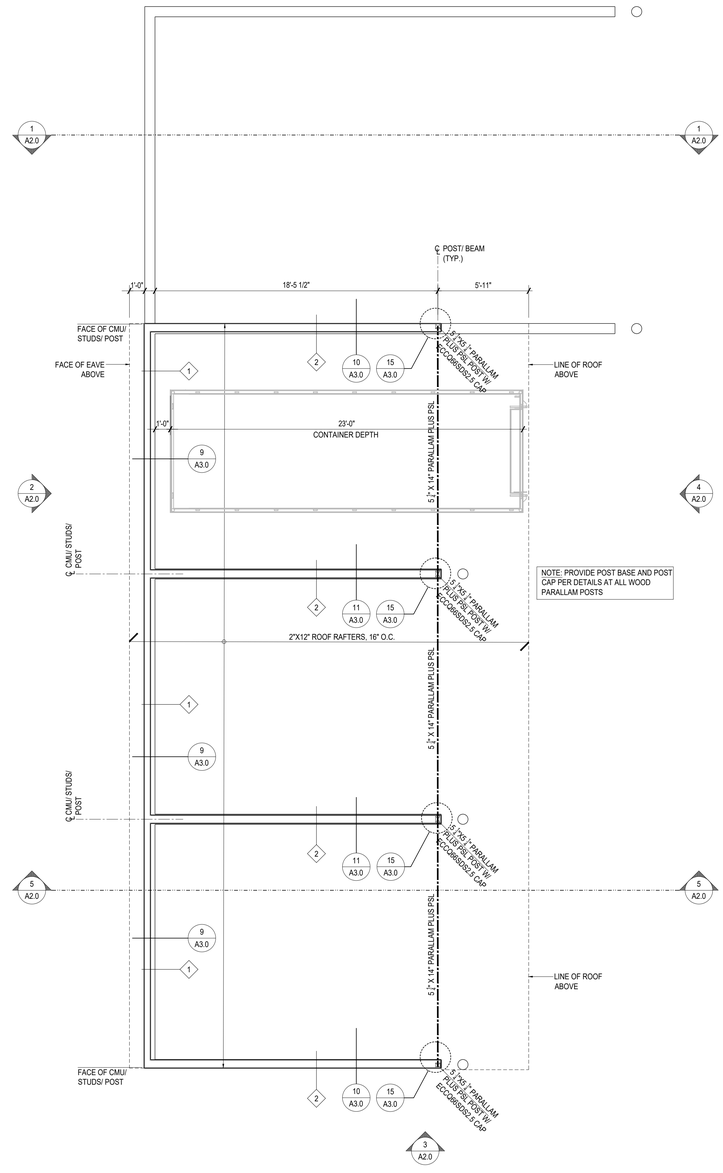
SITEWORK NOTES:

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL SHORING AND PROTECTION OF TEMPORARY EXCAVATIONS REQUIRED TO COMPLETE THE WORK DESCRIBED HEREIN.

2. THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER AND ARCHITECT IMMEDIATELY IF GROUNDWATER IS INFILTRATING EXCAVATIONS AND DEWATERING IS NECESSARY.

3. IF THE CONTRACTOR DETERMINES THAT GRADING AND/OR THE EXPORT OR IMPORT OF FILL IS NECESSARY, THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER AND ARCHITECT TO DETERMINE THE SCOPE OF GRADING AND IMPORT/ EXPORTING OF FILL MATERIAL.





EXISTING SHEDS (TO BE DEMOLISHED) 1
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN 2
SCALE: 1/4" = 1'-0"

ROOF FRAMING PLAN 3
SCALE: 1/4" = 1'-0"

ALEXANDER ELIAS ARCHITECTURE, LLC
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RECYCLING SHEDS

DEPARTMENT OF PUBLIC WORKS
TOWNSHIP OF SOUTH ORANGE VILLAGE
298 WALTON AVE.
SOUTH ORANGE, NJ 07079

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OWNER

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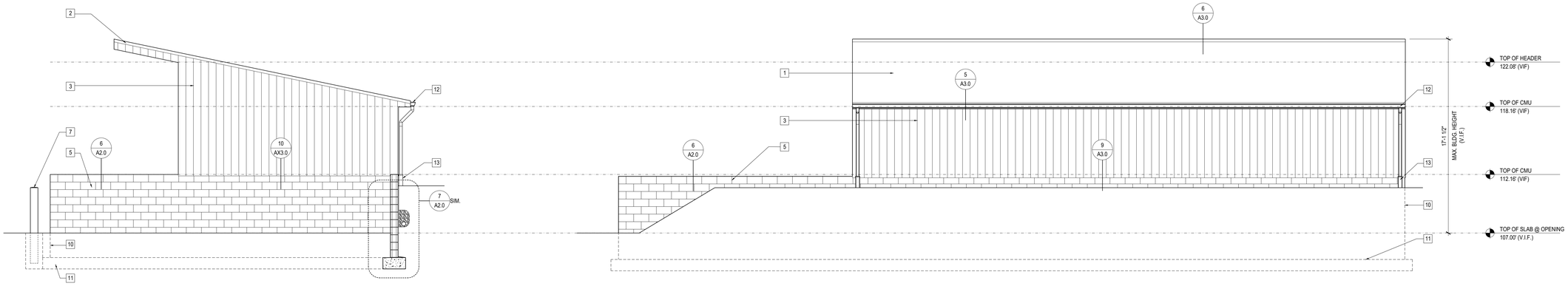
76 SOUTH ORANGE AVE.
SUITE 302
SOUTH ORANGE, NJ 07079

SHEET TITLE

DEMOLITION PLAN
FOUNDATION PLAN
ROOF FRAMING PLAN

SHEET

A1.0

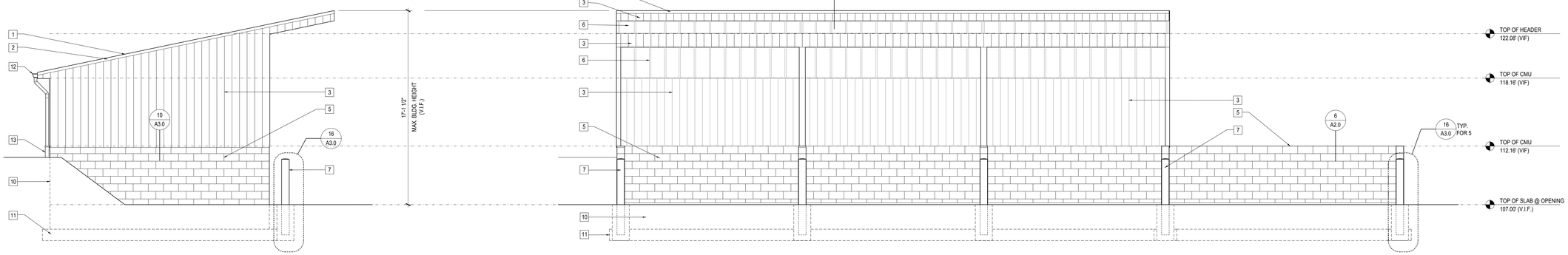


NORTH ELEVATION 1

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

WEST ELEVATION 2

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

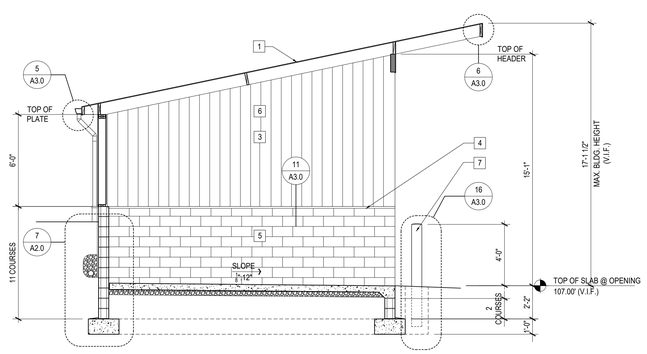


SOUTH ELEVATION 3

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

EAST ELEVATION 4

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

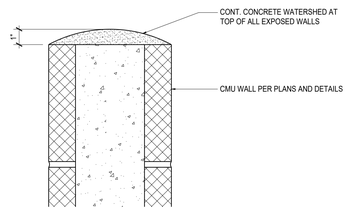


SECTION 5

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

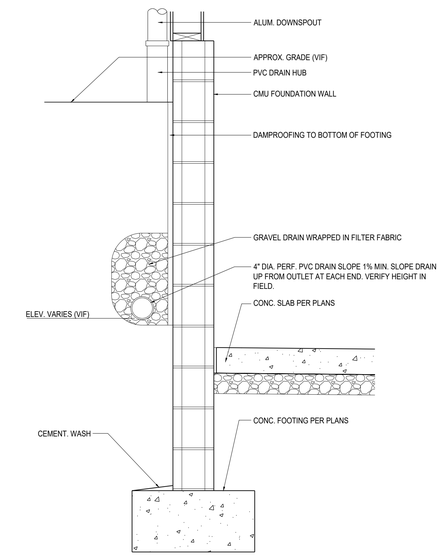
KEYNOTES

1. MEMBRANE ROOFING SYSTEM
2. METAL DRIP FLASHING
3. T1-11 PLYWOOD SHEATHING WITH APPLIED LIQUID SEALER
4. METAL BASE FLASHING
5. PAINTED CMU
6. EXPOSED WOOD FRAMING WITH APPLIED LIQUID SEALER
7. PAINTED METAL BOLLARD
8. CONCRETRE SLAB
9. ASPHALT PAVING
10. CMU FOUNDATION WALL
11. CONCRETE FOOTING
12. ALUMINUM GUTTER AND DOWNSPOUTS
13. PVC DRAIN BOOT



WATERSHED DETAIL 6

SCALE: 3" = 1'-0"



WALL SECTION 7

SCALE: 1" = 1'-0"

ALEXANDER ELIAS
ARCHITECTURE, LLC

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RECYCLING SHEDS

DEPARTMENT OF PUBLIC WORKS
TOWNSHIP OF SOUTH ORANGE VILLAGE
298 WALTON AVE.
SOUTH ORANGE, NJ 07079

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NO.	DATE	ISSUE
1	04-08-21	100% CD SET

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DATE:

ALEXANDER C. ELIAS
LICENSE # 21AI011992600

OWNER

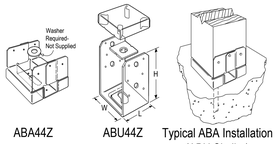
TOWNSHIP OF SOUTH
ORANGE VILLAGE
76 SOUTH ORANGE AVE.
SUITE 302
SOUTH ORANGE, NJ 07079

SHEET TITLE

DETAILS
ACCESSIBILITY NOTES
DOOR SHCEDULE
FINISH SCHEDULE

SHEET

A2.0



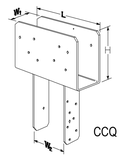
Installation:

- ABA, ABU - for pre-pour installed anchors. For Simpson Strong-Tie epoxy or mechanical anchors, select and install in accordance with www.stronglie.com.
- Products require washers between the nut and the base. Washers are supplied with the ABU but not the ABA, which requires a standard cut washer.

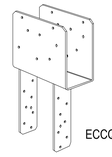
NOTE:
ALL FRAMING CONNECTORS SHOWN SERVE AS THE BASIS FOR DESIGN. SUBSTITUTIONS AND ALTERNATE PRODUCTS THAT MEET THE REQUIREMENTS SPECIFIED ARE ALLOWED.

Model No.	Post Size	Dimensions (in.) W	L	H	HB	Anchor Dia.	Post Fasteners: Nails	SD Screws	Machine Bolts Qty.	Machine Bolts Dia.
ABA44Z	4x4	3 9/16	3 1/8	3 1/16	-	1/2	6-10d	6-SD #9x1½	-	-
ABU44Z	4x4	3 9/16	3	5 1/2	1 3/4	5/8	12-16d	12-SD #10x1½	2	1/2
ABA46Z	4x6	3 9/16	5 3/16	3 1/8	-	5/8	8-16d	8-SD #10x1½	-	-
ABU46Z	4x6	3 9/16	5	7	2 5/8	5/8	12-16d	-	2	1/2
ABA66Z	6x6	5 1/2	5 1/4	3 1/8	-	5/8	8-16d	8-SD #10x1½	-	-
ABU66Z	6x6	5 1/2	5	6 1/16	1 3/4	5/8	12-16d	-	2	1/2
ABU88Z	8x8	7 1/2	7	7	-	2 - 5/8	18-16d	-	-	-

1. ▷ indicates connector is available in stainless steel. Replace Z in model number with *SS* when ordering.
2. Refer to current *Wood Construction Connectors* catalog for additional information.



CCQ


ECCQ

Installation:

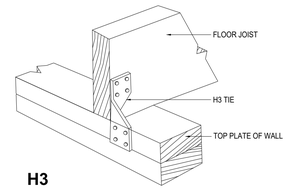
- For end conditions, specify ECCQ
- Install Simpson Strong-Tie SDS ¼" x 2½" screws, which are provided with the column cap, with a ⅜" hex head driver. SDS screws install best with a low speed ½" drill.
- Beam depth must be a minimum 7".


Typical CCQ Installation

Model No.	Beam Width	Dimensions (in.) W1	W2	L1 CCQ	L1 ECCQ	H	No. of SDS ¼"x 2½" Screws Beam	Post
▷ CCQ3-6HDG	3 1/8	3 1/4	5 1/2	11	8 1/2	7	16	14
▷ CCQ44HDG	4x	3 5/8	3 5/8	11	8 1/2	7	16	14
▷ CCQ46HDG	4x	3 5/8	5 1/2	11	8 1/2	7	16	14
▷ CCQ48HDG	4x	3 5/8	7 1/2	11	8 1/2	7	16	14
▷ CCQ66HDG	6x	5 1/2	5 1/2	11	8 1/2	7	16	14
CCQ68HDG	6x	5 1/2	7 1/2	11	8 1/2	7	16	14

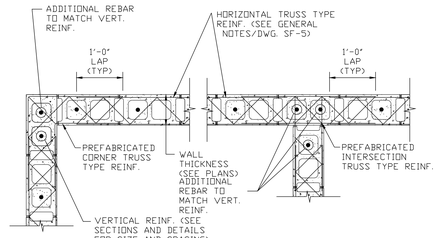
1. ▷ indicates connector is available in stainless steel. Replace *HDG* in model number with *SS* when ordering.
2. Refer to current *Wood Construction Connectors* catalog for additional information.

NOTE:
ALL FRAMING CONNECTORS SHOWN SERVE AS THE BASIS FOR DESIGN. SUBSTITUTIONS AND ALTERNATE PRODUCTS THAT MEET THE REQUIREMENTS SPECIFIED ARE ALLOWED.



H3

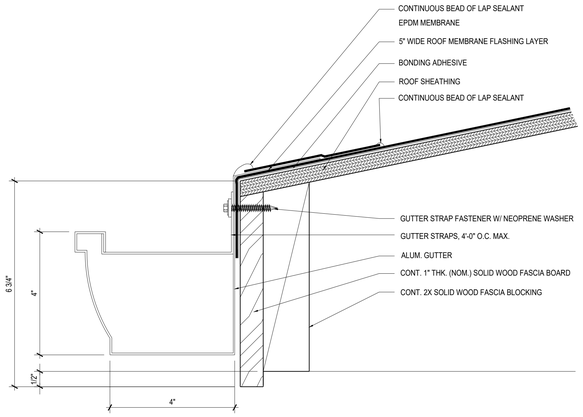
NOTE: INSTALL H3 ANCHORS AT BEARING POINTS OF ALL ROOF RAFTERS



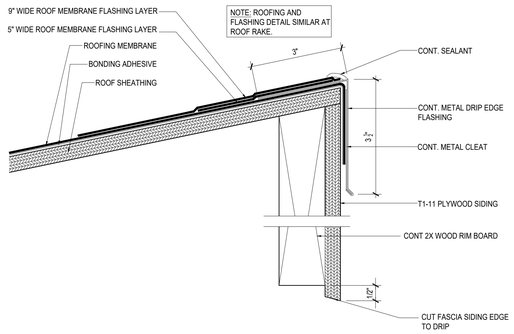
AT CORNER AT INTERSECTION

NOTES:
1. VERTICAL CMU WALL REINFORCING NOT SHOWN FOR CLARITY.
2. SEE TYPICAL CMU WALL AND FOOTING DETAIL FOR CMU WALL VERTICAL REINFORCING SIZE AND SPACING.

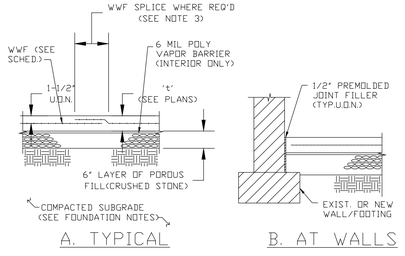
POST BASE DETAIL
SCALE: NTS — 1



POST CAP DETAIL
SCALE: NTS — 2



HURRICANE STRAP DETAIL
SCALE: NTS — 3

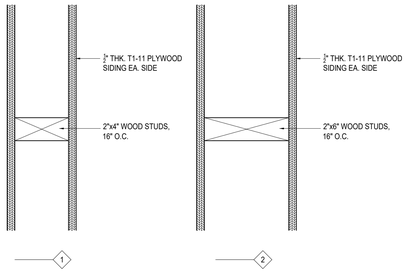


CMU WALL REINFORCEMENT
SCALE: NTS — 4

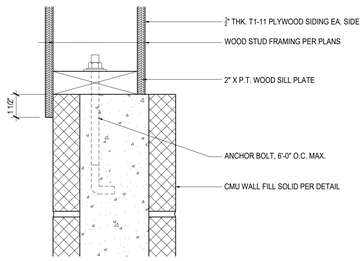
SLAB-ON-GROUND REINFORCING SCHEDULE	
SLAB THICKNESS 't'	WELDED WIRE FABRIC (WWF)
7 IN.	WWF 6x6-W5xW5

NOTES:
1. ALL SLAB-ON-GROUND SHALL BE POURED IN ALTERNATING PANEL SYSTEM TO ALLOW FOR PROPER SHRINKAGE POUR PANELS TO BE BOUNDED BY CONTROL JOINTS (OR EXPANSION JOINTSJAS SHOWN IN PLANS. REENTRANT CORNERS SHALL BE AVOIDED WHERE POSSIBLE. IF NOT AVOIDABLE PROVIDE (1) #4x4'-0" DIAGONAL AS CORNER REINFORCING.
2. CONTRACTOR MAY USE SAWED CONTROL JOINTS, SUBJECT TO ENGINEER'S ACCEPTANCE.
3. SPLICE OF WWF SHALL BE NOT LESS THAN THE DISTANCE BETWEEN TWO OUTERMOST CROSS WIRES OF EACH FABRIC SHEET PLUS 2 INCHES.

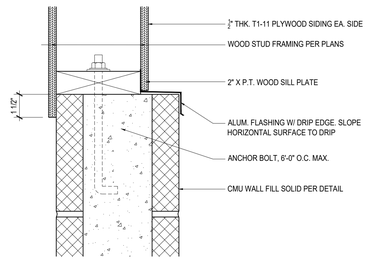
EAVE AND GUTTER DETAIL
SCALE: 6" = 1'-0" — 5

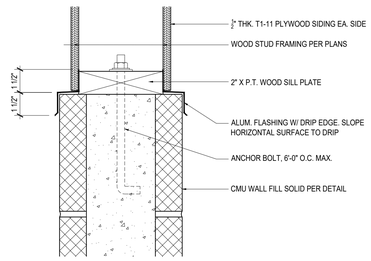


ROOF DETAIL
SCALE: 6" = 1'-0" — 6

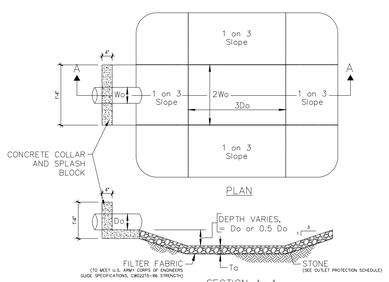


CONCRETE SLAB DETAILS
SCALE: 6" = 1'-0" — 7





WALL TYPES
SCALE: 3" = 1'-0" — 8



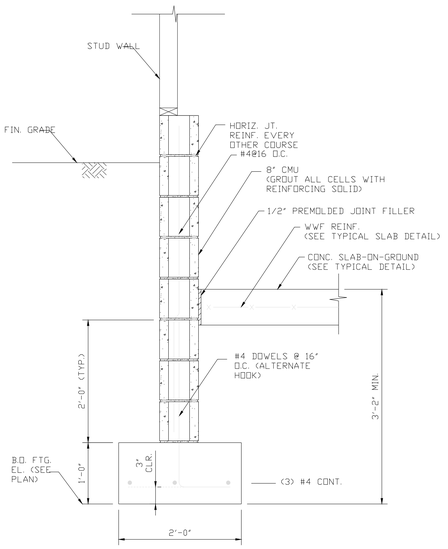
SCOUR HOLE DETAIL
SCALE N.T.S.

OUTLET PROTECTION SCHEDULE
(FOR SCOUR HOLES)

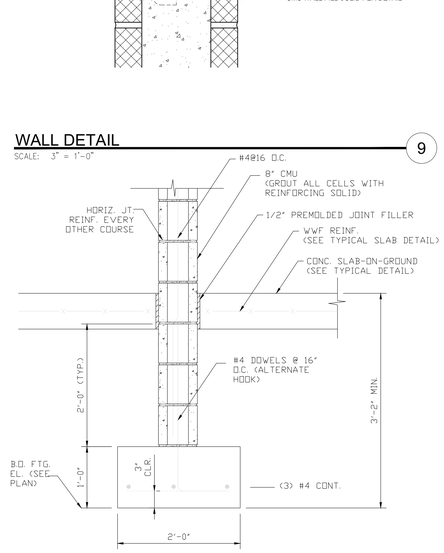
OUTFALL #	Do	Wo	Depth, Do	2Wo	3Do	d50	To
1	4"	4"	6"	18"*	18"*	4"	8"

* INCREASED TO 1.5' FOR CONSTRUCTABILITY.

SCOUR HOLE DETAIL
SCALE: NTS — 12



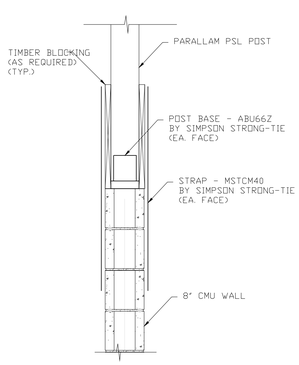
FOUNDATION DETAIL
SCALE: 3" = 1'-0" — 13



FOUNDATION DETAIL
SCALE: 3" = 1'-0" — 14

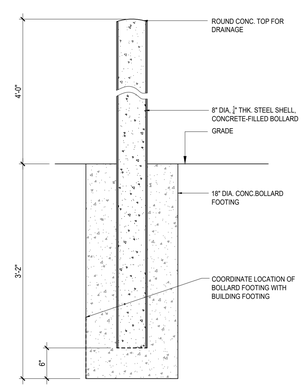
WALL DETAIL
SCALE: 3" = 1'-0" — 9

WALL DETAIL
SCALE: 3" = 1'-0" — 10



POST BASE DETAIL
SCALE: 3" = 1'-0" — 15

WALL DETAIL
SCALE: 3" = 1'-0" — 11



BOLLARD DETAIL
SCALE: 3" = 1'-0" — 16

ALEXANDER ELIAS ARCHITECTURE, LLC
76 SOUTH ORANGE AVENUE SUITE 310
SOUTH ORANGE, NJ 07079
973.327.4787

RECYCLING SHEDS

DEPARTMENT OF PUBLIC WORKS
TOWNSHIP OF SOUTH ORANGE VILLAGE
298 WALTON AVE.
SOUTH ORANGE, NJ 07079

SUBMISSIONS/ REVISIONS

NO.	DATE	ISSUE
1	04-08-21	100% CD SET

NOT FOR CONSTRUCTION

DATE:

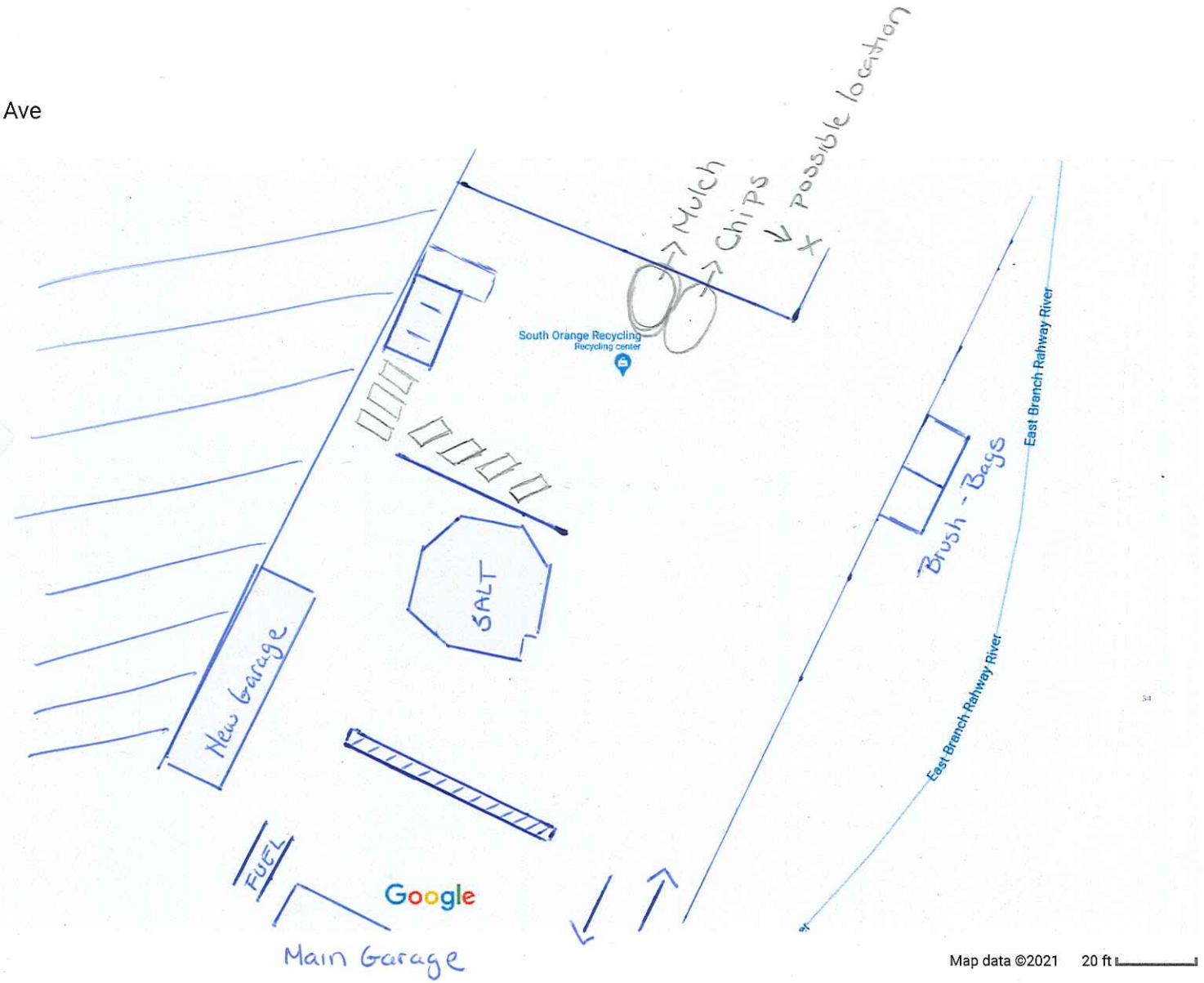
ALEXANDER C. ELIAS
LICENSE # 21AI01199260O

OWNER
TOWNSHIP OF SOUTH ORANGE VILLAGE
76 SOUTH ORANGE AVE.
SUITE 302
SOUTH ORANGE, NJ 07079

SHEET TITLE
DETAILS

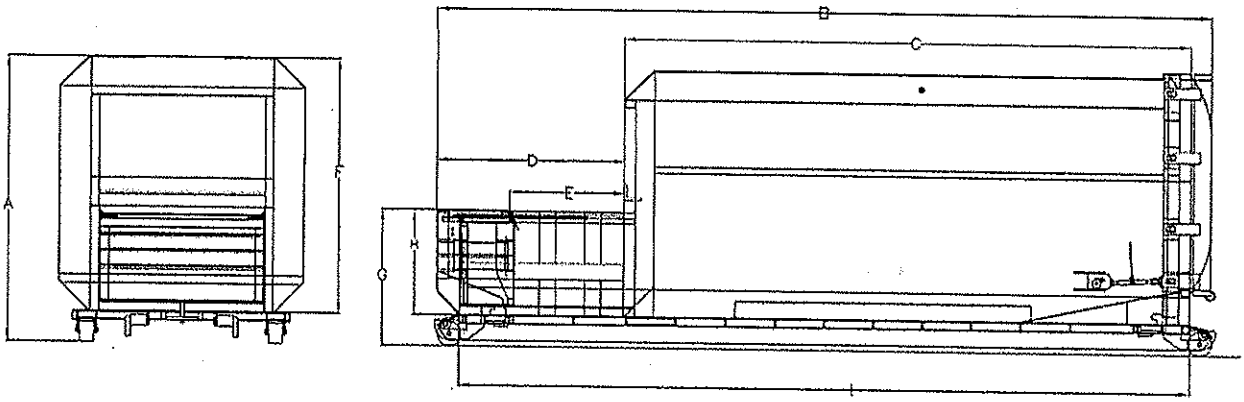
SHEET
A3.0

Google Maps 300 Walton Ave



RUDCO PRODUCTS, INC

Self Contained Compactors



	RP-2000SB	RP-3000SB	RP-3500SB	RP-4000SB
CHARGE BOX CAP. - MFG. RATING	2.0 CUBIC YARDS	2.0 CUBIC YARDS	2.0 CUBIC YARDS	2.0 CUBIC YARDS
MSWMA RATING	1.57 CUBIC YARDS	1.57 CUBIC YARDS	1.57 CUBIC YARDS	1.57 CUBIC YARDS
CYCLE TIME	33 SEC.	33 SEC.	33 SEC.	33 SEC.
NORMAL RAM FORCE	39,900	39,900	39,900	39,900
MAXIMUM RAM FORCE	44,000	44,000	44,000	44,000
NORMAL OPERATING PRESSURE	1750	1750	1750	1750
MAX OPER. PRESSURE IN MANUAL MODE	2200	2200	2200	2200
MAX OPER. PRESSURE IN AUTO CYCLE	2000	2000	2000	2000
CYL (BORE X STROKE X ROD)	(2) 4"X30-88" X -2.5"	(2) 4"X30-88" X -2.5"	(2) 4"X30-88" X -2.5"	(2) 4"X30-88" X -2.5"
MOTOR	10 HP	10 HP	10 HP	10 HP
PUMP SIZE	10.5 GPM	10.5 GPM	10.5 GPM	10.5 GPM
PACKER FLOOR	1/2" PLATE	1/2" PLATE	1/2" PLATE	1/2" PLATE
PACKER SIZES	1/4" PLATE W/ 6" CHANNEL	1/4" PLATE W/ 6" CHANNEL	1/4" PLATE W/ 6" CHANNEL	1/4" PLATE W/ 6" CHANNEL
RAM TOP	1/4" PLATE	1/4" PLATE	1/4" PLATE	1/4" PLATE
RAM FACE	1/2" PLATE W/4"X3" ANGLE	1/2" PLATE W/4"X3" ANGLE	1/2" PLATE W/4"X3" ANGLE	1/2" PLATE W/4"X3" ANGLE
CHARGE BOX OPENING	41" X 60"	41" X 60"	41" X 60"	41" X 60"
DIMENSION - A	96 - 1/2"	96 - 1/2"	104 - 1/2"	104 - 1/2"
DIMENSION - B	222"	282"	282"	306"
DIMENSION - C	144"	204"	204"	228"
DIMENSION - D	67 - 3/4"	67 - 3/4"	67 - 3/4"	67 - 3/4"
DIMENSION - E	41"	41"	41"	41"
DIMENSION - F	85 - 1/2"	85 - 1/2"	93 - 1/2"	93 - 1/2"
DIMENSION - G	49 - 1/2"	49 - 1/2"	49 - 1/2"	49 - 1/2"
DIMENSION - H	38 - 3/8"	38 - 3/8"	38 - 3/8"	38 - 3/8"
DIMENSION - I	204"	264"	264"	288"
WEIGHT	10,565	10,987	11,331	11,566

AVAILABLE OPTIONS

- Guide Rail 40" x 44"
- Doghouse W/ 30"x40" Door On Each Side
- Hopper 45° (Cellar Type) With Doors
- Thru-Wall Chute Side 40"H x 96"L W/ Door (40" x 40" Free Standing Chute)
- Thru-Wall Chute Rear 40H x 96"L With Door (40" x 40" Free Standing Chute)
- Hinged Dock Extension
- Single Phase Power Unit
- Multi Cycle Timer
- Low Oil Shutdown
- Hi Temp - Low Oil Shutdown
- Color Pressure Gauge
- Oil Heater
- Ozone Odor Control System
- Additional Options Available

CORPORATE OFFICE: 114 E. Oak Rd. • Vineland, NJ 08360 • Ph:1.856.691.0800 • Fax: 1.856.696.008
MAILING ADDRESS: P.O. Box 705 • Vineland, NJ 08362

Toll Free: 1.800.828.2234 • E-Mail: sales@rudco.com
Phone:1.856.691.0800 • Fax: 1.856.696.008

rudco.com