PRELIMINARY AND FINAL MAJOR SITE PLAN

FOR

STORAGE PLATFORM, LLC PROPOSED SELF-STORAGE FACILITY W/ COMMUNITY AMENITIES

BLOCK 2303, LOTS 1, 2, 3, 4, 13 & 14; TAX MAP SHEETS 20, 22 & 23 - LATEST REV. DATED 01/1987 256, 311, 313, 315, 317 VALLEY STREET (CR 683) & 1, 15 LACKAWANNA PLACE, TOWNSHIP OF SOUTH ORANGE VILLAGE

200' PROPERTY OWNERS LIST (BLOCK 2303, LOTS 1-3, 13 & 14) 200' PROPERTY OWNERS LIST (BLOCK 2303, LOT 4)

ESSEX COUNTY, NEW JERSEY

PROPERTY OWNER BLOCK LOT

DEUTSCH, E A&L DORNFIELD &L DEUTSCH
268 VALLEY ST
SOUTH ORANGE, NJ 07079 2001 1

ZHANG, JIAN FENC & HUANG, JIN XIU
266 VALLEY STREET
200 FL STREET
300 JAN FENC & HUANG, JIN XIU
266 VALLEY STREET
300 JAN FENC & HUANG, JIN XIU
266 VALLEY STREET
300 JAN FENC & HUANG, JIN XIU
266 VALLEY STREET
200 JAN FENC & HUANG, JIN XIU
266 VALLEY STREET
300 JAN FENC & HUANG, JIN XIU
261 VALLEY STREET
300 JAN FENC & JUN JO7079
2201 1

CALICIOTI, AMBROGIO + FELOMENA
306 VALLEY STREET
300 JAN FENC & JUN JO7079
2201 2

BRISSETT, TONYA
65 PIFTH ST
300 JAN FENC & JUN JO7079
2201 3

QUADREL, DONNA
66 PIFTH ST
300 JAN FENC & JUN JO7079
2201 4

320 VALLEY SO LLC
125 CHUBB AVE #2005
LYNDHURST, N JO7071
2201 35

TOWNSHIP OF SOUTH ORANGE VILLAGE
VILLAGE HALL
56 CREST DRWE
310 VALLEY STREET, LLC
56 CREST DRWE
310 VALLEY STREET, LLC
56 CREST DRWE
310 VALLEY STREET, LLC
56 CREST ORWE
310 VALLEY STREET
300 JH ORANGE, N.J. 07079
2201 37

TRONCONE, JOHN + CINDY
310 VALLEY STREET
310 VALLEY STREET
310 VALLEY STREET
400 SOUTH ORANGE, N.J. 07079
2201 39

TRONCONE, RICHARD + JOANNE
1892 HOYSONS BLVD.
100MS RIVER, N.J. 08753
SETON HALL UNIVERSITY
400 SOUTH ORANGE, N.J. 07079
2202 1

SETON HALL UNIVERSITY
400 SOUTH ORANGE, N.J. 07079
2202 1

ERIE LACKAWANNA/ NJ TRANSIT
ONE PENN PLAZA
400 SOUTH ORANGE, N.J. 07079
2301 1

TOWNSHIP OF SOUTH ORANGE VILLAGE
VILLAGE HALL
SOUTH ORANGE, N.J. 07079
2301 1

TOWNSHIP OF SOUTH ORANGE VILLAGE
VILLAGE HALL
SOUTH ORANGE, N.J. 07079
2302 1

ERIE LACKAWANNA/ NJ TRANSIT
ONE PENN PLAZA
400 SOUTH ORANGE, N.J. 07079
2301 1

TOWNSHIP OF SOUTH ORANGE VILLAGE
VILLAGE HALL
SOUTH ORANGE, N.J. 07079
2302 1

ERIE LACKAWANNA/ NJ TRANSIT
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2301 1

TOWNSHIP OF SOUTH ORANGE VILLAGE
VILLAGE HALL
SOUTH ORANGE, N.J. 07079
2302 1

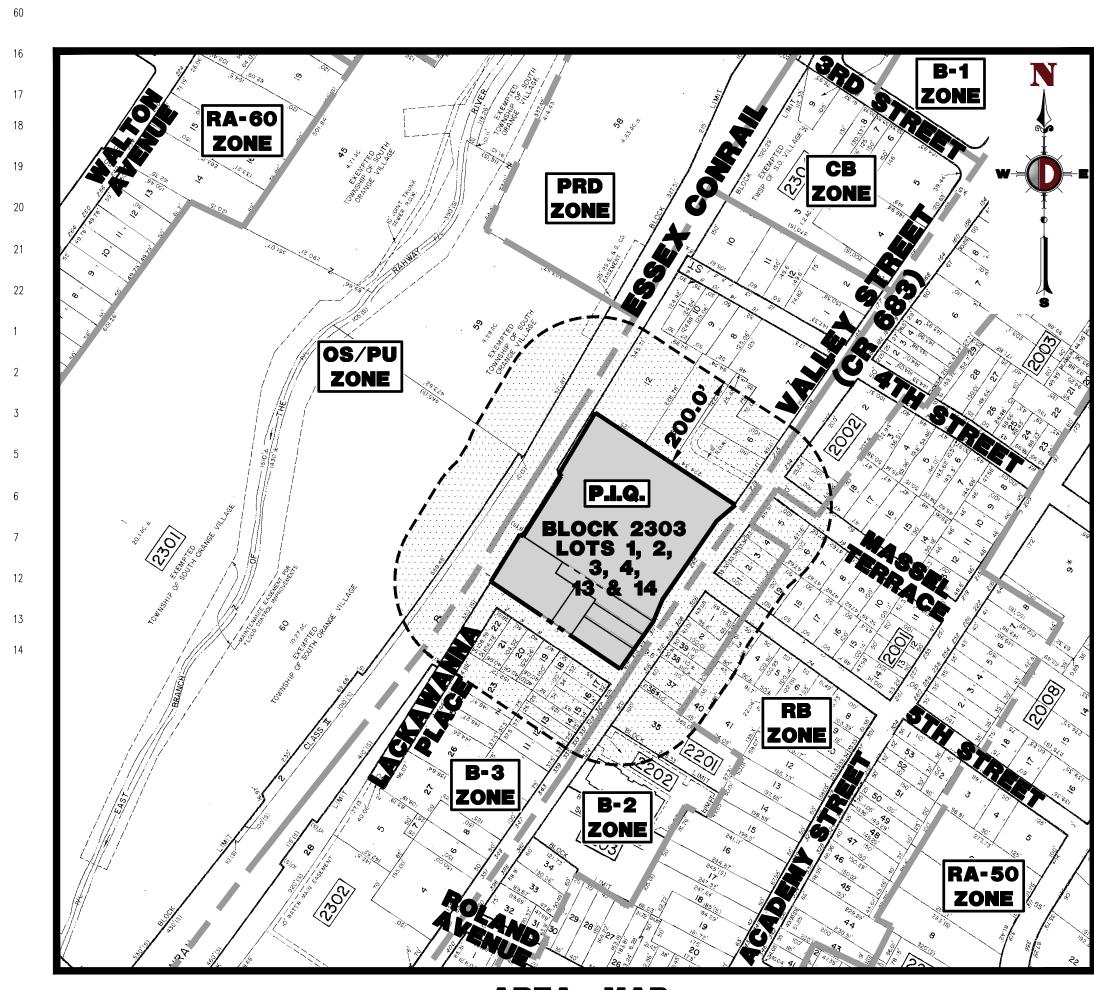
ERIE LACKAWANNA/ NJ TRANSIT
ONE PENN PLAZA
400 SOUTH ORANGE, N.J. 07079
2301 1

TOWNSHIP OF SOUTH ORANGE VILLAGE
VILLAGE HALL
SOUTH ORANGE, N.J. 07079
2302 1

TOWNSHIP OF SOUTH ORANGE
VILLAGE HALL
SOUTH ORANGE, N.J. 07079
2302 1

TOWNSHIP OF S

CABLEVISION 186 WEST MARK STREET NEWARK, NEW JERSEY 07103



AREA MAP 1" = 200' SOUTH ORANGE

Cameron

Johnson

South Moinstin

South Moinstin

Soluth ORANGE AR Hall year

Soluth Moinstin

Soluth ORANGE AR Hall year

Soluthia

Soluthi

KEY MAP1" = 2000'

DRAWING INDI	EX
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PLANNING BOARD APPROVAL

APPROVED BY THE PLANNING BOARD OF TOWNSHIP OF SOUTH ORANGE VILLAGE, ESSEX COUNTY, NEW JERSEY

CHAIRMAN

DATE

BOARD ENGINEER

DATE

PREPARED BY

DYNAMIC ENGINEERING CONSULTANTS, P.C.

1904 MAIN STREET
LAKE COMO, NJ 07719

WWW.DYNAMICEC.COM

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		this plan set is for permitting purposes only and m	AY NOT BE USED FOR (CONSTRUCTION
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		COVER SHEE	ΞΤ	
	nts	PROJECT: STORAGE PLATFORM, LLC PROPOSED SELF-STORAGE FACILITY W/ COMMUNITY AMENITIES BLOCK 2303, LOTS 1, 2, 3, 4, 13 & 14 256, 311, 313, 315, 317 VALLEY STREET (CR 683) & 1, 15 LACKAWANNA PLACE TOWNSHIP OF SOUTH ORANGE VILLAGE, ESSEX COUNTY, NEW JERSEY	JOB No: 2624-99-007 DRAWN BY: MFZ DESIGNED BY: LPG	DATE: 07/08/2021 SCALE: (H) AS (V) SHOWN
I				SHEET No:

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: | Rev. #

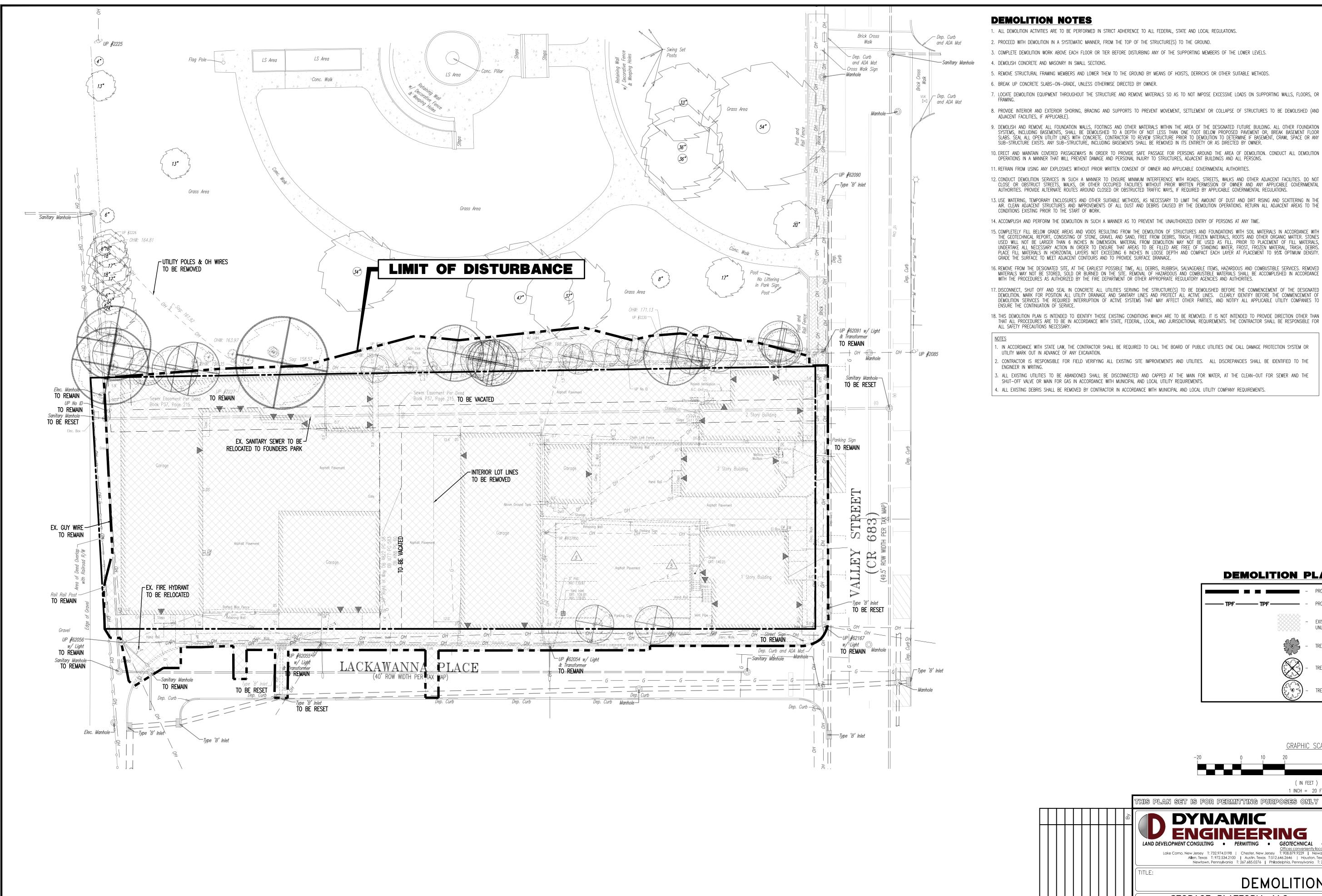
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OUTH ORNGE, NJ 07079 2302

VILLAGE HALL SOUTH ORANGE, N.J. 07079 2303

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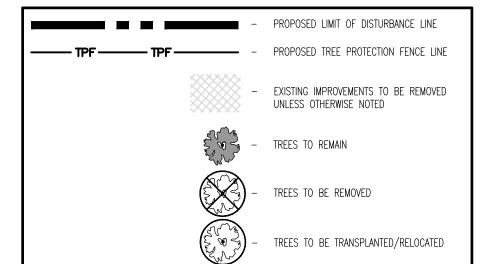


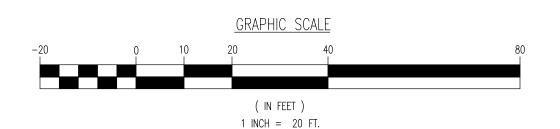


DEMOLITION NOTES

- 1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- 2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
- 3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
- 5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.
- 6. BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.
- 8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND
- 9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT OR, BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY
- 10. ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.
- 12. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
- 13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE
- 14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
- 15. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY.
- 16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
- 17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO
- 18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS NECESSARY.
- UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION. . CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE
- ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND THE
- SHUT-OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS. 4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.

DEMOLITION PLAN LEGEND





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PROJECT: STORAGE PLATFORM, LLC
PROPOSED SELF-STORAGE FACILITY W/ COMMUNITY AMENITIES BLOCK 2303, LOTS 1, 2, 3, 4, 13 & 14 256, 311, 313, 315, 317 VALLEY STREET (CR 683) & 1, 15 LACKAWANNA PLACE TOWNSHIP OF SOUTH ORANGE VILLAGE, ESSEX COUNTY, NEW JERSEY DESIGNED BY:

PROFESŞIONAL ENGINEER

NEW JERSEY LICENSE No. 52179

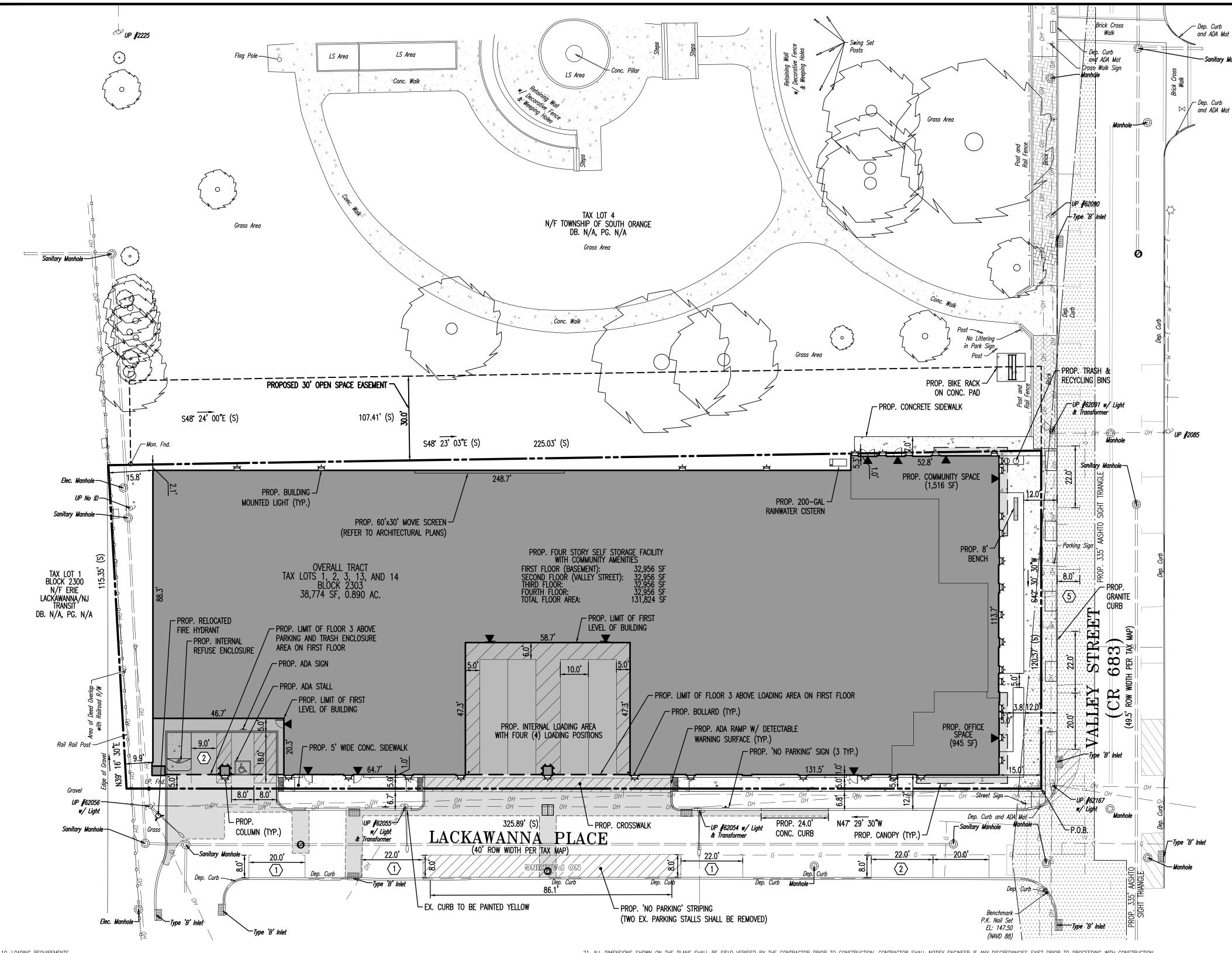
, CHECKED BY: THOMAS J. MULLER JOHN A. PALUS

PROTECT YOURSELF

07/08/202 SCALE: (H) 1"=20

SHEET No:

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41975



. LOADING REQUIREMENTS

- A. A MAXIMUM OF 70% OF TOTAL PARKING SPACES MAY BE OVERSIZED/LOADING SPACES WITH A MINIMUM DIMENSION OF 10' WIDE AND 30' LONG. (REDEVELOPMENT PLAN § 6.3.B.iii)
- A. VEHICULAR ACCESS TO PARKING FACILITIES SHALL BE LOCATED AND DESIGNED TO MINIMIZE CONFLICTS WITH PEDESTRIAN CIRCULATION. (REDEVELOPMENT PLAN § 6.3.B.ii) THE SITE MAY NOT HAVE MORE THAN TWO CURB CUTS. THERE SHALL BE NO DRIVEWAY/CURB CUTS ON VALLEY STREET. (REDEVELOPMENT PLAN § 6.3.B.ix)
- SIDEWALK REQUIREMENTS J. THE AREA BETWEEN THE CURB AND THE BUILDING ALONG VALLEY STREET SHALL INCLUDE, AT MINIMUM, A 12' WIDE SIDEWALK, AND A 3' WIDE PLANTING/LANDSCAPED AREA AT THE BASE OF THE BUILDING. (REDEVELOPMENT
- K. THE AREA BETWEEN THE CURB AND THE BUILDING ALONG LACKAWANNA PLACE SHALL INCLUDE, AT MINIMUM, A 6' WIDE PLANTING STRIP, A 5' WIDE SIDEWALK, AND A 1'WIDE PLANTING/LANDSCAPED AREA AT THE BASE OF THE BUILDING. (REDEVELOPMENT PLAN § 7.6.D.ii)
- L AT LEAST ONE TRASH RECEPTACLE, ONE RECYCLING RECEPTACLE, AND ONE BENCH SHALL BE PROVIDED IN THE VALLEY STREET SIDEWALK AREA (REDEVELOPMENT PLAN § 7.6.D.iii) M. ANY STREET FURNITURE AND STREETSCAPE PROVIDED SHALL BE LOCATED SUCH THAT A MINIMUM OF 8' ON VALLEY STREET AND 5' ON LACKAWANNA PLACE OF UNOBSTRUCTED SIDEWALK REMAINS FOR THE SAFE PASSAGE OF PEDESTRIANS. THE PALATE OF FURNITURE, FIXTURES, AND FINISHES SHOULD COMPLEMENT THE BUILDING ARCHITECTURE AND ARE HUMAN-ORIENTED. (REDEVELOPMENT PLAN § 7.6.D.iv)
- N. ADA COMPLIANT TACTILE PAVERS SHALL BE USED TO DEFINE THE EDGE OF ANY SERVICE DRIVE OR DRIVEWAYS. (REDEVELOPMENT PLAN § 7.6.D.v) BICYCLE PARKING REQUIREMENTS A. A MINIMUM OF 1 BICYCLE PARKING SPACE PER 300 SF OF COMMUNITY SPACE SHALL BE PROVIDED. (REDEVELOPMENT PLAN § 6.3.B.iv)
- PARKING CALCULATION: BICYCLE PARKING: (1,516 SF)*(1 PARKING SPACE/300 SF)
- TOTAL PROPOSED = 18 SPACES (COMPLIES)
- B. THE REQUIRED BICYCLE PARKING MUST PROVIDE SPACES FOR AT LEAST 8 BICYCLES. (REDEVELOPMENT PLAN § 6.3.C.i)
- C. THE REQUIRED BICYCLE PARKING MAY BE PROVIDED OFF-SITE BUT MUST BE WITHIN 200' OF THE COMMUNITY SPACE ENTRANCE. ALL REQUIRED OUTDOOR BICYCLE PARKING MUST BE CONVENIENT AND ACCESSIBLE TO A MAIN BUILDING ENTRANCE AND STREET ACCESS. (REDEVELOPMENT PLAN § 6.3.C.ii) D. ADDITIONAL BICYCLE PARKING MAY BE REQUIRED AS PART OF THE FINAL DESIGN FOR IMPROVEMENTS TO FOUNDERS PARK INCLUDED AS AN EXHIBIT TO ANY EXECUTED REDEVELOPMENT AGREEMENT. (REDEVELOPMENT PLAN §
- VANDALISM AND PROMOTE AWARENESS OF EXISTENCE AND AVAILABILITY. (REDEVELOPMENT PLAN § 6.3.C.iv) F. OUTDOOR BICYCLE PARKING SHALL BE LOCATED SO AS NOT TO BLOCK THE PEDESTRIAN PATH ON A SIDEWALK OR WITHIN A SITE. A MINIMUM OF 6' OF UNOBSTRUCTED PASSAGE WHEN PARKING IS IN USE IS REQUIRED ON PUBLIC SIDEWALKS. (REDEVELOPMENT PLAN § 6.3.C.v)

E. OUTDOOR BICYCLE PARKING SHALL BE SITED IN A HIGHLY VISIBLE LOCATION, SUCH AS WITHIN VIEW OF PASSERS-BY, RETAIL ACTIVITY, OFFICE WINDOWS, AN ATTENDANT OR OTHER PERSONNEL TO DISCOURAGE THEFT AND

- G. BICYCLE RACKS MUST BE SECURELY ATTACHED TO CONCRETE FOOTINGS AND MADE TO WITHSTAND SEVERE WEATHER AND PERMANENT EXPOSURE TO THE ELEMENTS. (REDEVELOPMENT PLAN § 6.3.C.v.i) H. ALL BICYCLE RACKS SHALL BE LOCATED AT LEAST 24" IN ALL DIRECTIONS FROM A WALL, DOOR, LANDSCAPING, OR OTHER OBSTRUCTION THAT WOULD RENDER USE OF THE RACKS DIFFICULT OR IMPRACTICAL. (REDEVELOPMENT PLAN § 6.3.C.vii) I. SITE PLANS SHALL SHOW THE PRÓPOSED LOCATION OF BICYCLE PARKING/STORAGE FACILITIES ON THE SITE AND ON THE BUILDING FLOOR PLAN DESIGN. A CONSTRUCTION DETAIL OF THE BICYCLE RACK OR OTHER STORAGE
- FACILITIES SHALL BE PROVIDED. (REDEVELOPMENT PLAN § 6.3.C.viii)
- A. THE MAXIMUM HEIGHT FOR FENCES AND WALLS, INCLUDING RETAINING WALLS, STAIRWELLS, UTILITY SCREENING, TRASH ENCLOSURES, ETC SHALL BE 6 FEET. (REDEVELOPMENT PLAN § 6.3.A.i) . THE APPLICANT REQUESTS ANY AND ALL SUBMISSION WAIVERS THAT ARE NOT SPECIFICALLY IDENTIFIED HEREIN. TESTIMONY WILL BE SUPPLIED AT THE PUBLIC HEARING TO SUPPORT SAID SUBMISSION WAIVERS.
- 6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
- . THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER CONSTRUCTION MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT & PLANS. 9. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.). THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS.

- 21. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH 22. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 23. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION. 24. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.
- 25. ALL CONTRACTORS MUST CARRY STATUTORY WORKERS COMPENSATION, EMPLOYERS LIABILITY INSURANCE AND APPROPRIATE LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME DYNAMIC ENGINEERING CONSULTANTS, P.C., ITS SUBCONSULTANTS AS ADDITIONAL INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH DYNAMIC ENGINEERING CONSULTANTS, P.C. WITH CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.
- 26. NEITHER THE PROFESSIONAL ACTIVITIES OF DYNAMIC ENGINEERING CONSULTANTS, P.C., NOR THE PRESENCE OF DYNAMIC ENGINEERING CONSULTANTS, P.C. OR ITS EMPLOYEES AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. DYNAMIC FNGINFFRING CONSULTANTS, P.C. AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.
- 27. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DYNAMIC ENGINEERING'S REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT DYNAMIC ENGINEERING CONSULTANTS, P.C. HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF DYNAMIC ENGINEERING CONSULTANTS, P.C. IN WRITING BY THE CONTRACTOR. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED
- 28. IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT, DYNAMIC ENGINEERING CONSULTANTS, P.C. AND THE CONTRACTOR MUST AGREE THAT ALL DISPUTES BETWEEN THEM ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE PROJECT SHALL BE SUBMITTED TO NONBINDING MEDIATION UNLESS THE PARTIES MUTUALLY AGREE
- 29. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY
- METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL THOSE AGREEMENTS. 30. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND IT SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CONNECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.
- 31. ALL TRAFFIC SIGNS AND STRIPING SHALL FOLLOW THE REQUIREMENTS SPECIFIED IN THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION. 32. THE BUILDING SETBACK DIMENSIONS ILLUSTRATED AND LISTED ON THE SITE PLAN DRAWINGS ARE MEASURED FROM THE OUTSIDE SURFACE OF BUILDING WALLS. THESE SETBACK DIMENSIONS DO NOT ACCOUNT FOR ROOF OVERHANGS, ORNAMENTAL ELEMENTS, SIGNAGE OR OTHER EXTERIOR EXTENSIONS UNLESS SPECIFICALLY NOTED. 33. CONTRACTOR ACKNOWLEDGES HE HAS READ AND UNDERSTOOD THE DESIGN PHASE SOIL PERMEABILITY AND GROUNDWATER TEST RESULTS IN THE STORMWATER MANAGEMENT REPORT AND THAT THE CONTRACTORS RESPONSIBILITIES

INCLUDE NECESSARY PROVISIONS TO ACHIEVE THE DESIGN PERMEABILITY IN THE FIELD.

34. CONTRACTOR TO BE ADVISED THAT THE ENGINEER WAS NOT PROVIDED WITH FINAL FLOOR PLAN DRAWINGS FOR THE BUILDING AT THE TIME OF SITE PLAN DESIGN. AS A RESULT, ENTRANCE DOOR LOCATIONS AS DEPICTED HEREON MAY NOT BE FINAL AND MUST BE CONFIRMED WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. THE HANDICAP ACCESSIBLE PARKING SPACES AND THE ASSOCIATED RAMPS AND ACCESSIBLE ROUTE MUST COMPLY WITH NJAC 5:23-7 AND THE HANDICAP PARKING SPACES MUST BE LOCATED AS THE NEAREST SPACES TO THE ENTRANCE. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IMMEDIATELY OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.

GENERAL NOTES

EXISTING USE:

1. THIS PLAN HAS BEEN PREPARED BASED ON REFERENCES INCLUDING:

BOUNDARY AND TOPOGRAPHIC SURVEY DYNAMIC SURVEY, LLC

1904 MAIN STREET

LAKE COMO, NJ 07719

SURVEYOR FILE NO: 2624-99-007S

DATED LANLIARY 6 2021

DATED JANUARY 5, 2021 STORAGE PLATFORM, LLC 157 COLUMBUS AVENUE NEW YORK, NY 10023 APPLICANT:

315-317 VALLEY STREET, LLC OWNERS: MENDHAM, NJ 07945 313 VALLEY STREET, LLC 10 KENDALL COURT MENDHAM, NJ 07945

> POB 692 SPRINGFIELD, NJ 07081 SOUTH ORANGE, NJ 07079

MOLINARO, ANTHONY

TOWNSHIP OF SOUTH ORANGE VILLAGE 76 SOUTH ORANGE AVE, VILLAGE HALL SOUTH ORANGE, NJ 07079 4. PARCEL DATA: BLOCK 2303, LOTS 1-4, 13 & 14
256, 311, 313, 315, 317 VALLEY ST. & 1, 15 LACKAWANNA PL. TOWNSHIP OF SOUTH ORANGE VILLAGE

ESSEX COUNTY, NEW JERSEY LACKAWANNA + VALLEY REDEVELOPMENT AREA ZONE:

DELICATESSEN (NON-PERMITTED USE) (REDEVELOPMENT PLAN § 6.1.A)
ANIMAL GROOMING (NON-PERMITTED USE) (REDEVELOPMENT PLAN § 6.1.A)
AUTOMOBILE REPAIR FACILITY (NON-PERMITTED USE) (REDEVELOPMENT PLAN § 6.1.A) 7. PROPOSED USE: SELF-STORAGE FACILITY (PERMITTED USE) (REDEVELOPMENT PLAN § 6.1.A)

RESIDENTIAL DWELLING (NON-PERMITTED USE) (REDEVELOPMENT PLAN § 6.1.A)

8. SCHEDULE OF ZONING REQUIREMENTS (REDEVELOPMENT PLAN § 6.2)

ONE REQUIREMENT	LACKAWANNA+VALLEY REDEVELOPMENT PLAN	EXISTING LOTS 1-3, 13 & 14*	PROPOSED LOTS 1-3, 13 & 14*
MINIMUM COMMUNITY SPACE (VALLEY STREET FRONTAGE) [1]	1,000 SF	N/A	1,516 SF
MAXIMUM LEASING OFFICE SPACE [2]	2,000 SF	N/A	945 SF
MINIMUM LOT AREA	38,000 SF (0.87 Ac)	38,780 SF (0.890 Ac)	38,780 SF (0.890 Ac)
MINIMUM LOT WIDTH	110 FT	120.37 FT	120.37 FT
MINIMUM LOT DEPTH	300 FT	317.89 FT	317.89 FT
MAXIMUM IMPERVIOUS COVERAGE	93%	94.7% (36,714 SF) (E)	91.7% (35,578 SF)
MAXIMUM BUILDING COVERAGE	85%	40.7% (15,798 SF)	85% (32,956 SF)
MAXIMUM FLOOR AREA RATIO	3.4	0.47 (18,080 SF)	3.4 (131,824 SF)
PRINCIPAL BUILDING			
- MINIMUM FRONT YARD SETBACK (VALLEY STREET)	15 FT [3]	5.6 FT	15 FT
- MINIMUM FRONT YARD SETBACK (LACKAWANNA PLACE)	5 FT [3]	0.0 FT (E)	5 FT
– MINIMUM SIDE YARD SETBACK (FOUNDERS PARK)	0 FT	0.7 FT	1.0 FT
- MAXIMUM SIDE YARD SETBACK (FOUNDERS PARK)	10 FT	0.7 FT	5.8 FT
- MINIMUM REAR YARD SETBACK (RAILROAD ROW)	9 FT [4]	8.0 FT	9.8 FT
– MAXIMUM BUILDING HEIGHT (VALLEY STREET FAÇADE)	36 FT [5][7][8]	< 36 FT	**
- MAXIMUM BUILDING HEIGHT (REAR FACADE)	42 FT [6][7][8]	< 36 FT	**
- MAXIMUM NUMBER OF STORIES	4 STORIES	2 STORIES	4 STORIES
- MINIMUM FLOOR TO FLOOR GROUND FLOOR HEIGHT (VALLEY STREET)	11 ਜ	N/A	12 FT
ACCESSORY USE			
- MAXIMUM BUILDING HEIGHT	10 FT	N/A	N/A
- MINIMUM REAR YARD SETBACK (RAILROAD ROW)	3 FT	N/A	N/A
– MINIMUM SIDE YARD SETBACK (FOUNDERS PARK)	6 FT	N/A	N/A
MINIMUM GROUND-FLOOR TRANSPARENCY	60%	N/A	**
MINIMUM UPPER-FLOOR TRANSPARENCY	30%	N/A	**

* LOT 4 (FOUNDERS PARK) HAS NOT BEEN INCLUDED IN THE BULK CALCULATIONS
** TO BE DETERMINED UPON COMPLETION OF ARCHITECTURAL DESIGN

FF ARCHITECTURAL PLANS FOR CALCULATIONS

[1] THE STOREFRONT OF THIS SPACE SHALL LIE ALONG THE FOUNDERS PARK AND VALLEY STREET FRONTAGE (REDEVELOPMENT PLAN § 6.2.A)

LEASING OFFICE SPACE INCLUDING BREAK ROOMS, CLOSETS, ETC. (REDEVELOPMENT PLAN § 6.2.B)

CANOPIES AND CORNICES UP TO 4 FEET EXTENSION SHALL BE EXCLUDED FROM THE SETBACK REQUIREMENTS. (REDEVELOPMENT PLAN § 6.2.I.i)

THE BUILDING SHALL BE SETBACK AN AVERAGE OF 12 FEET FROM THE REAR PROPERTY WITH NO POINT CLOSER THAN 9 FEET. (REDEVELOPMENT PLAN § 6.2.I.i)

MEASURED FROM THE AVERAGE GRADE AT THE PERIMETER OF THE BUILDING AT THE TWO POINTS OF THE FRONT FACADE TO THE HIGHEST PART OF THE BUILDING AT THAT FACADE. (REDEVELOPMENT PLAN § 6.2.J.i)

MEASURED FROM THE AVERAGE GRADE AT THE PERIMETER OF THE BUILDING AT THE TWO POINTS OF THE REAR FAÇÂDE TO THE HIGHEST PART OF THE BUILDING AT THAT FAÇÂDE. (REDEVELOPMENT PLAN § 6.2.J.;i) NO POINT OF THE BUILDING SHALL BE MORE THAN 45 FEET FROM THE PERIMETER OF THE BUILDING TO THE HIGHEST POINT OF THE BUILDING. (REDEVELOPMENT PLAN § 6.2.) T SOLAR PANELS AND SIMILAR SUSTAINABLE OR ENVIRONMENTALLY FRIENDLY MECHANICAL EQUIPMENT OR APPURTENANCES LESS THAN 10' TALL SHÀLL NOT BE COUNTED TÓ OVERAÚL HEIGHT. A PARAPET NO HIGHER THAN 5' TALL SHALL NOT BE INCLUDED IN THE MAXIMUM HEIGHT CALCULATION. ROOFTOP SCREENING SHALL NOT BE COUNTED TO OVERALL HEIGHT. (REDEVELOPMENT PLAN 🖇 6.2.J.iv)

10] NO PART OF ANY BUILDING NOR ANY STRUCTURE ATTACHED TO A BUILDING SHALL PROJECT INTO ANY REQUIRED YARD OR SETBACK AREA EXCEPT ORNAMENTAL FEATURES NOT EXTENDING TO THE FOUNDATION WALLS, BAY WINDOWS, BALCONIES, CHIMNEYS, IN ANY CASE PROJECTING NOT MORE THAN TWO FEET SHALL BE PERMITTED (§ 185–167.C.1.c.) [11] UNDER NÓ CIRCUMSTÁNCES SHALL ANY PROJECTIONS EXTEND CLOSER TO A PROPERTY LINE THAN 1/2 THE REQUIRED SETBACK DISTANCE (§ 185-167.C.2.d)

9. PARKING REQUIREMENTS

A. ALL ON-SITE PARKING AREAS SHALL MEET OR EXCEED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND NJ BARRIER FREE SUBCODE. (REDEVELOPMENT PLAN § 6.3.B.) B. FOR SELF-STORAGE OFF-STREET PARKING, A MAXIMUM OF 70% OF TOTAL PARKING SPACES MAY BE OVERSIZED/LOADING SPACES WITH A MINIMUM DIMENSION OF 10' WIDE AND 30' LONG. (REDEVELOPMENT PLAN § 6.3.B.iii)

C. FOR SELF-STORAGE OFF-STREET PARKING, A MINIMUM OF 30% OF ALL PARKING SPACES MUST BE STANDARD PARKING SPACES WITH MINIMUM DIMENSIONS OF 9' WIDE AND 18' LONG FOR STANDARD PARKING SPACES AND 8' WIDE AND 22' LONG FOR PARALLEL PARKING SPACES. (REDEVELOPMENT PLAN § 6.3.B.iii) D. FOR SELF-STORAGE OFF-STREET PARKING, UP TO 10% OF THE TOTAL PARKING SPACES PROVIDED MAY BE COMPACT PARKING SPACES WITH DIMENSIONS OF 8' WIDE AND 16' LONG FOR STANDARD PARKING SPACES AND 8' WIDE

AND 20' LONG FOR PARALLEL PARKING SPACES. (REDEVELOPMENT PLAN § 6.3.B.iii) E. ANY CHANGES TO ON-STREET PARKING ARE SUBJECT TO APPROVAL FROM THE BOARD OF TRUSTEES. (REDEVELOPMENT PLAN § 6.3.B.vii)

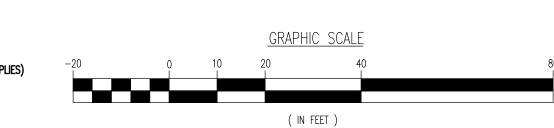
F. ALL EXISTING ON-STREET PARKING SHALL BE MAINTAINED FOR PUBLIC USE UNLESS MODIFICATIONS ARE APPROVED BY THE BOARD OF TRUSTEES. (REDEVELOPMENT PLAN § 6.3.B.viii) G. SELF-STORAGE SHALL HAVE A MINIMUM OF 1 OFF-STREET PARKING SPACE PER 22,000 GFA (GROSS FLOOR AREA) OF BUILDING AREA (OF WHICH ONE MUST BE ADA COMPLIANT). (REDEVELOPMENT PLAN § 6.3.B.iii) H. COMMERCIAL USES SHALL HAVE A MINIMUM OF 1 OFF-STREET PARKING SPACE PER EACH 1,000 GFA OF BUILDING AREA ABOVE 3,000 GSF OF BUILDING AREA. (REDEVELOPMENT PLAN § 6.3.B.v)

I. OFFICES SHALL HAVE A MINIMUM OF 1 OFF-STREET PARKING SPACE PER EACH 1,000 GFA OF BUILDING AREA ABOVE 3,000 GSF OF BUILDING AREA. (REDEVELOPMENT PLAN § 6.3.B.vi) PARKING CALCULATION:

COMMERCIAL: (0 SF)*(1 PARKING SPACE/1,000 SF OVER 3,000 GSF) = 0 SPACESOFFICE: (0 SF)*(1 PARKING SPACE/1,000 SF OVER 3,000 GSF)

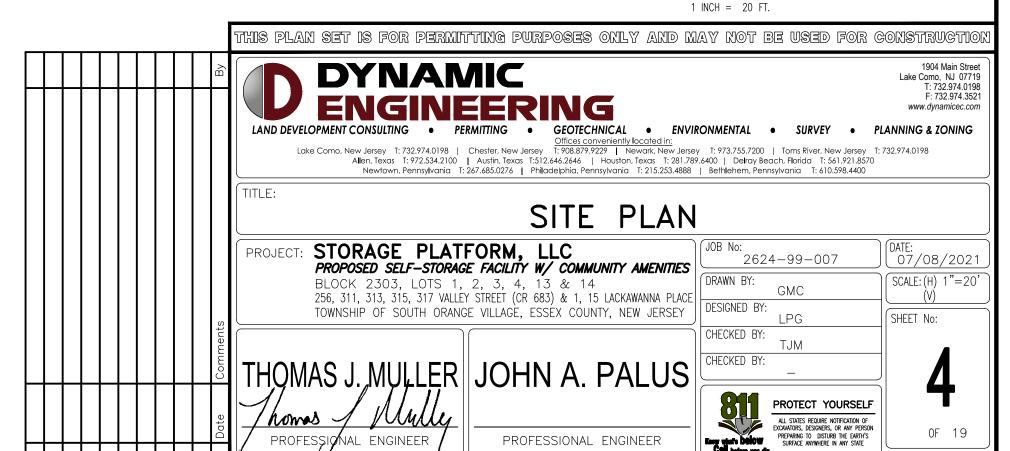
= 0 SPACES = 5.88 SPACES

SELF-STORAGE: (129,363 SF)*(1 PARKING SPACE/22,000 SF) TOTAL PROPOSED = 6 SPACES (COMPLIES)



FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: Rev. #

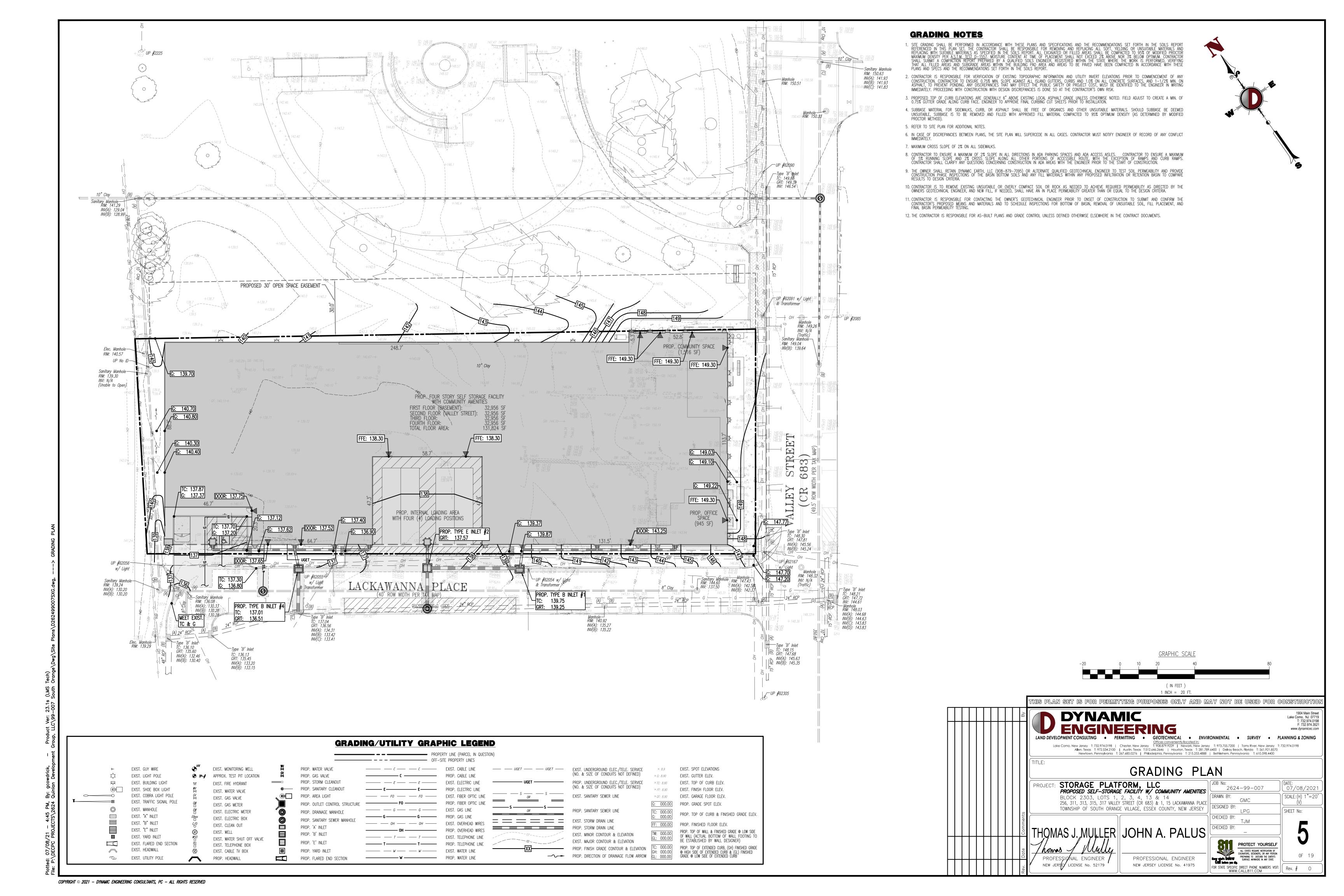
SEE SHEET 14 OF 19 FOR SIGNAGE CHART & NOTES

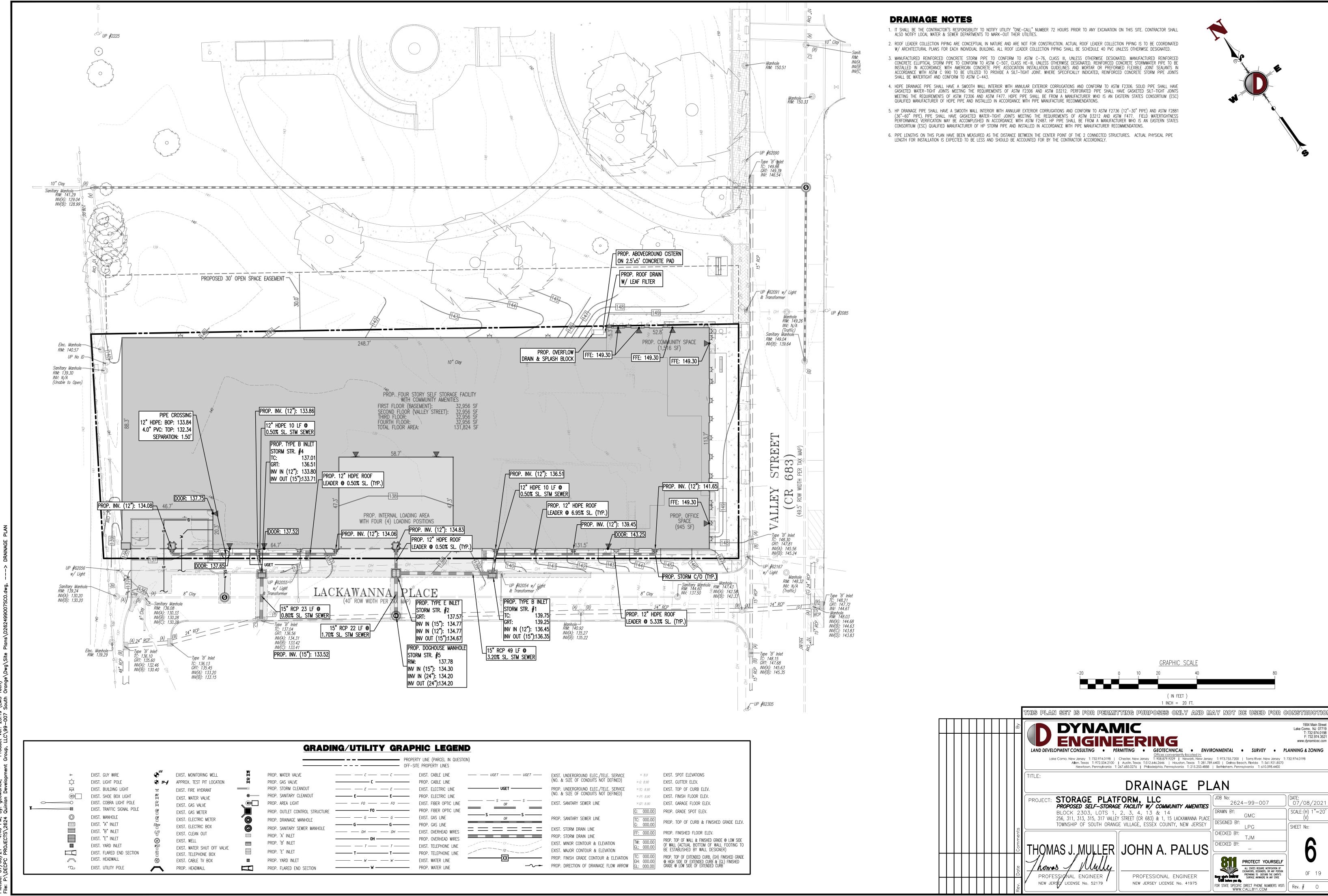


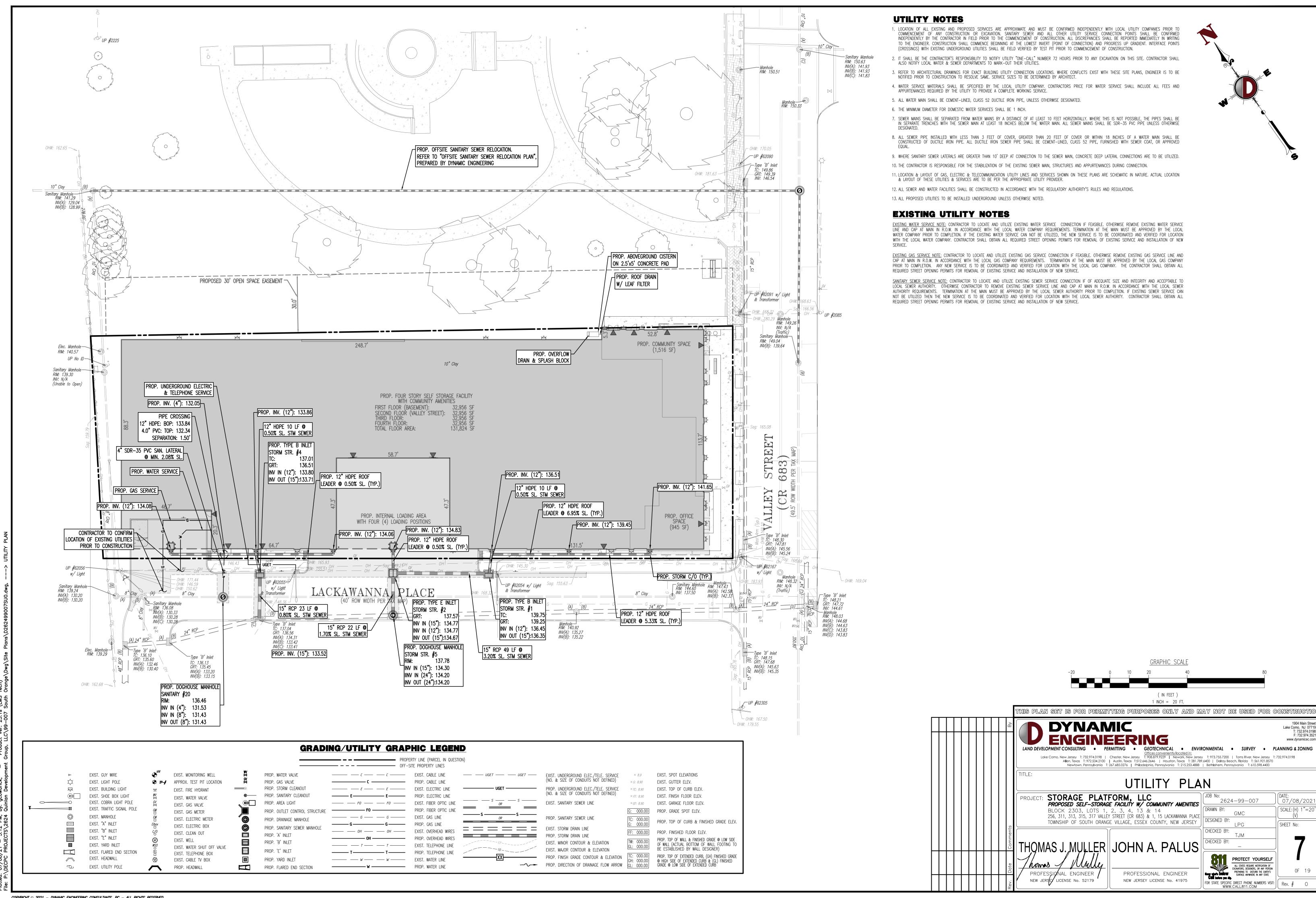
PROFESSIONAL ENGINEER

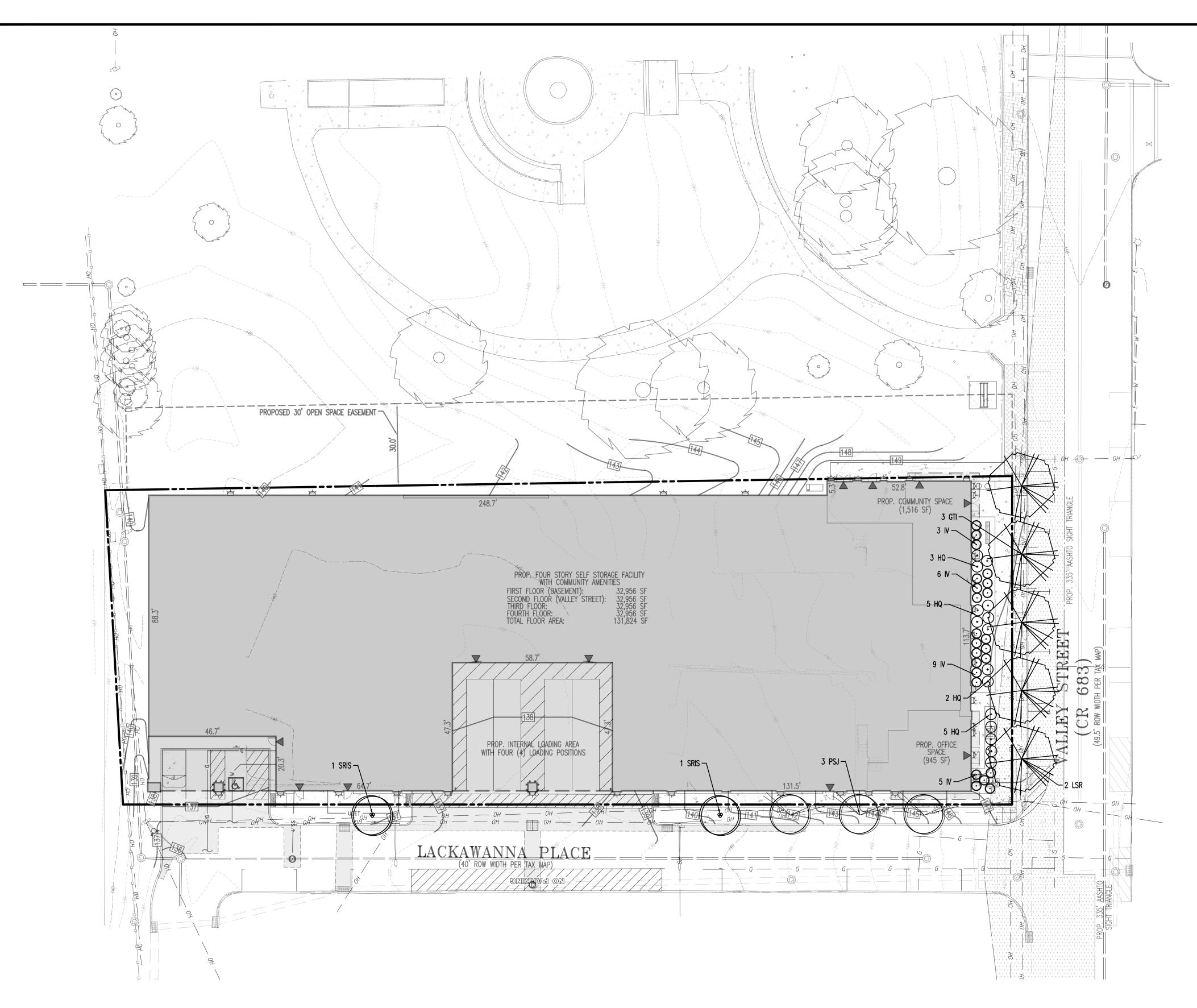
NEW JERSEY LICENSE No. 41975

IAL ENGINEER









THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

PLANTING NOTES

PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO 1. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.

4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.

5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.

6. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY, IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED, PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED.

7. QUALITY AND SIZE OF PLANTIS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI ZGO.1 (Rev. 2001) "AMERICAN STANDARD FOR NURSER'S SHALL BE PLANTED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.

8. ALL PLANTS SHALL BE PLANTING AFEAS TO INCOPPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS.

9. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.

10. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SESSON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH A MEDICAL PRACTICE. PLANTS SHALL NOT BE BOTTOM OF THE PLANT WITH THE GROWN OF THE PLANT WITH BE FERTILIZED WITH A REGULAR CARDEN FERTILIZER (5–10–5) UPON COMPLETION OF WORK. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE TRUNK, CONTRACTOR TO ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH SHARP TOOLS AND FILLED AROUND WITH TOPSOIL. COMPLETELY SATURATE THESE AREAS WITH WATER, ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR IS TO PROTECT ALL EXISTING TREES TO REMAIN BY ERECTING TREE PROTECTION FENCE AT THE DRIP LINE. THIS WILL ENSURE NO COMPACTION OF THE ROOT MASS.

ALL EXISTING TREES TO REMAIN BY ERECTING TREE PROTECTION FENCE AT THE DRIP LINE. THIS WILL ENSURE NO COMPACTION OF THE TROOT WASS.

3. ALL PLANTING BEDS SHALL BE MULCHED WITH 4" LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH.

5. NEW PLANTING AREAS AND SOD SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN.

8. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE AS SHOWN ON THE APPROVED LANDSCAPE PLAN MUST BE INSTALLED, INSPECTED AND APPROVED BY THE MUNICIPAL LANDSCAPE ARCHITECT. THE MUNICIPAL ENGINEER AND LANDSCAPE ARCHITECT SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER AS REQUIRED BY OR ASSOCIATED WITH A SUBDIVISION OR SITE PLAN APPROVAL BY THE PLANNING BOARD OR ZONING BOARD OF ADJUSTMENT SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASONS:

PLANTS 3/15 TO 12/15 LAWN 3/15 TO 6/15 9/15 TO 12/1

FURTHERMORE, THE FOLLOWING TREE VARIETIES SHALL NOT BE PLANTED DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH DIGGING THESE

CARPINUS VARIETIES CRATAEGUS VARIETIES KOELREUTERIA LIQUIDAMBAR STYRACIFLUA SALIX WEEPING VARIETIES TILIA TOMENTOSA PLATANUS ACERFOLIA

ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE THE WRITTEN APPROVAL BY THE MUNICIPAL ENGINEER OR LANDSCAPE ARCHITECT, PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. THE PLANTING ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY OUTSIDE THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON. 19. ALL DISTURBED AREAS TO BE TREATED WITH TOPSOIL SEED SOD STABILIZATION METHOD.

PLANTING SPECIFICATIONS

A. THIS WORK SHALL CONSIST OF PERFORMING, CLEARING AND SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.

MATERIALS'
 A. GENERAL – ALL MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) MANUAL OF ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) OR APPROVED EQUAL.
 B. PLANTS – ALL PLANTS SHALL BE HEALTHY OR NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS.
 C. TOPSOIL – LOAMY SILT, HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, pH RANGE BETWEEN 4.5 – 7, BE FREE OF DEBRIS, ROCKS LARGER THAN TWO INCHES (2"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
 D. MULCH – FOUR (4") INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH.
 FERTILIZER AND SOIL CONDITIONER – PLANTED AREAS
 A. ORGANIC FERTILIZER – SHALL BE PROCESSED SEWER SLUDGE WITH MINIMAL CONTENT OF 1% NITROGEN AND 2% PHOSPHORIC ACID, EQUAL TO 'NITROHUMIS'.
 B. ORGANIC FERTILIZER AND SOIL CONDITIONER – SHALL BE 'GRO – POWER' AND ORGANIC BASE MATERIALS COMPRISED OF DECOMPOSED ANIMAL AND VEGETABLE MATTER AND COMPOSTED TO SUPPORT BACTERIAL CULTURES, CONTAINING NO POULTRY OR HUMAN WASTE. GUARANTEED ANALYSIS (5–3–1): NITROGEN 5%. PHOSPHATE 3%, POTASH 1%. 50% HUMUS AND 15% HUMIC ACIDS.
 4. GENERAL WORK PROCEDURES
 A. LANDSCAPE WORK SHALL COMMENCE AS SOON AS THOSE PORTIONS OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH DAY'S WORK. ALL DEBRIS, MATERIALS, AND

PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH DAY'S WORK. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STOCKPILED OR DISPOSED OF. ALL PAVED SURFACES SHALL BE SWEPT CLEAN AT THE END OF EACH DAY'S WORK. 5. WEEDING

A. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE

CONTRACTOR'S EXPENSE.

A. CONTRACTOR TO PROVIDE A 4" THICK TOPSOIL LAYER IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO PRODUCE A 4" UNSETTLED THICKNESS. TOPSOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON—SITE TOPSOIL UTILIZED IN ALL PLANTING AREAS. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM.
7. SOIL CONDITIONING:

A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 6". ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. SPREAD EVENLY IN ALL PLANTING AREAS AND TILL (2 DIRECTIONS) INTO TOP 4" WITH THE FOLLOWING PER 1,000 SQ. FT.: 20 POUNDS GRO-POWER' 100 POUNDS AGRICULTURAL GYPSUM 20 POUNDS NITROFORM (COURSE) 38-0-0 BLUE CHIP

SOIL MODIFICATIONS:

A. THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. USE COMPOSTED BARK, RECYCLED YARD WASTE OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.5.

B. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.

C. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX. 8. PLANTING

POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
A. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACK FILLED WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:

1 PART PEAT MOSS BY VOLUME
1 PARTS TOPSOIL BY VOLUME
3 PARTS TOPSOIL BY VOLUME TO THE PEACE FOLLOWING.

21 GRAM 'AGRIFORM' PLANTING TABLETS AS FOLLOWS:
2 TABLETS PER 1 GAL. PLANT
3 TABLETS PER 5 GAL. PLANT
4 TABLETS PER 15 GAL. PLANT

13. MAINTENANCE (ALTERNATE BID) COST PER MONTH AFTER INITIAL 90-DAY MAINTENANCE PERIOD.

LARGER PLANTS (2) TWO TABLETS PER 1/2" DIAM. OF TRUNK CALIPER

B. PREPARED SOIL SHALL BE TAMPED FIRMLY AT BOTTOM OF PIT. FILL PREPARED SOIL AROUND BALL OF PLANT 1/2 WAY, AND INSERT PLANT TABLETS. COMPLETE BACK FILL AND WATER THOROUGHLY.

C. ALL PLANTS SHALL BE SET SO THAT, THEY BEAR THE SAME RELATION TO THE REQUIRED GRADE AS THEY BORE TO THE NATURAL GRADE BEFORE BEING TRANSPLANTED.

D. PREPARE RAISED EARTH BASIN AS WIDE AS PLANTING HOLE OF EACH TREE.

WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACK FILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.

F. PRUNE ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS TO A MIN. OF 7' BRANCHING HEIGHT 9. GROUND COVER A. ALL GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING GROUND COVER.
B. SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.
C. IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.
D. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE—EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR

TO APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION. 10. FINISH GRADING

A. ALL AREAS WILL BE RECEIVED BY THE CONTRACTOR AT SUBSTANTIALLY PLUS/MINUS .1 FOOT OF FINISH GRADE.
B. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY.
C. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.

11. GUARANTEE

A. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM ACCEPTANCE OF JOB. OWNER TO SECURE A MAINTENANCE BOND FROM THE CONTRACTOR FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE COMMENCEMENT OF THE GUARANTEE PERIOD AND PASSES A FINAL INSPECTION BY THE OWNER OR OWNERS REPRESENTATIVE. 12. CLEANUP

A. UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE

OWNER'S AUTHORIZED REPRESENTATIVE.

B. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY WITH HERBICIDE AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.

C. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SOMOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

<u>KEY</u>	QTY	BOTANICAL NAME	COMMON NAME	<u>SIZE</u>	<u>REMARKS</u>
SHADE TR	REE(S)				
GTI	3	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS HONEYLOCUST	2 1/2-3" CAL.	B+B
LSR	<u>2</u> 5	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA'	SEEDLESS SWEETGUM	2 1/2-3" CAL.	B+B
	5				
ORNAMEN [*]	TAL TREE(S)				
PSJ	3	PRUNUS SARGENTII 'JFS-KW58'	PINK FLAIR CHERRY	2-2 1/2" CAL.	B+B
SRIS	<u>2</u> 5	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK JAPANESE TREE LILAC	7–8'	B+B
	5				
DECIDUOU	IS SHRUB(S)				
HQ	15	HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	24-30"	#5 CAN
IV	23 38	ITEA VIRGINICA 'HENRY'S GARNET'	GARNET SWEETSPIRE	24-30 "	#5 CAN

LANDSCAPE REQUIREMENTS

A. A LICENSED LANDSCAPE ARCHITECT SHALL PREPARE STREETSCAPE SUBMISSIONS TO THE PLANNING BOARD. AMENITIES SHOULD INCLUDE CONSIDERATIONS FOR SUSTAINABILITY, AESTHETICS, PLACEMAKING, SAFETY AND ACCESSIBILITY. (REDEVELOPMENT PLAN § 7.6.B.I) B. TREE PITS ALONG VALLEY STREET SHALL BE A MINIMUM OF 4' WIDE AND 7' IN LENGTH. RAINGARDENS AND/OR BIOSWALES IN TREE PITS ARE ENCOURAGED. (REDEVELOPMENT PLAN C. POLLUTIÓN RESISTANT STREET SHADE TREES ARE TO BE PLANTED ALONG BOTH VALLEY STREET AND LACKAWANNA PLACE, AT REGULAR INTERVALS OF 25' ON CENTER. (REDEVELOPMENT PLAN § 7.6.E.I) TREES SHALL BE A MINIMUM OF 3.5" CALIPER MEASURED AT 8" ABOVE THE GRADE D. IREES SHALL BE A MINIMUM OF 3.5" CALIPER MEASURED AT 8" ABOVE THE GRADE.

E. TREE IRRIGATION BAGS MUST BE INSTALLED AND MAINTAINED FOR AT LEAST 6 MONTHS AFTER PLANTING. (REDEVELOPMENT PLAN § 7.6.E.I.)

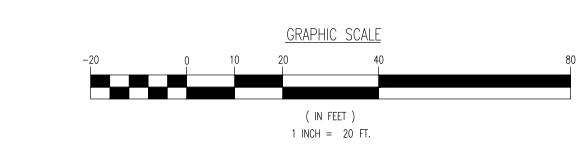
F. TREE GROUPING OR CLUSTERING IS ENCOURAGED. (REDEVELOPMENT PLAN § 7.6.E.I.)

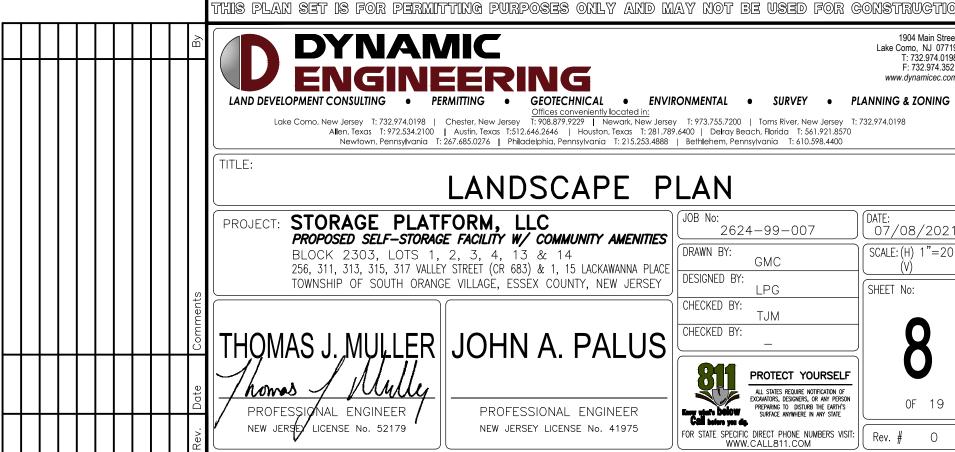
G. LOCATIONS THAT ARE NOT REASONABLY FEASIBLE DUE TO LACK OF SUN EXPOSURE, CONFLICTS WITH UTILITIES, OR OTHER CONTEXTUAL CHALLENGES MAY REPLACE THE REQUIREMENT TO PROVIDE STREET TREES WITH ALTERNATIVE PLANTINGS OR STREETSCAPE DESIGN. (REDEVELOPMENT PLAN § 7.6.E.I.)

H. FOUNDATION LANDSCAPING SHALL BE PROVIDED AT BUILDING SETBACKS, EITHER AT-GRADE OR IN RAISED PLANTER BEDS. SHRUBS AND GROUNDCOVER SHALL BE PLANTED TO CREATE A CONTINUOUS ROW OF FOUNDATION LANDSCAPING SUBJECT TO FINAL REVIEW AND APPROVAL BY THE PLANNING BOARD. THE UTILIZATION OF DOWNSPOUT PLANTERS IS ENCOURAGED FOR THE TREATMENT OF STORMWATER FROM BUILDING ROOFTOPS. (REDEVELOPMENT PLAN § 7.6.E.II)

I. COORDINATE PUBLIC SPACE AND STREETSCAPE ELEMENTS TO UTILIZE SIMILAR NEIGHBORHOOD PLANTINGS, VISUAL CUES, AND SIDEWALKS TO CREATE A UNIFORM AND ATTRACTIVE PUBLIC REALM (REDEVELOPMENT PLAN § 7.6.E.II)

PUBLIC REALM. (REDEVELOPMENT PLAN § 7.6.E.III)
J. RAIN GARDENS AND BIOSWALES ARE ENCOURAGED TO THE GREATEST EXTENT PRACTICABLE. (REDEVELOPMENT PLAN § 7.6.E.IV)





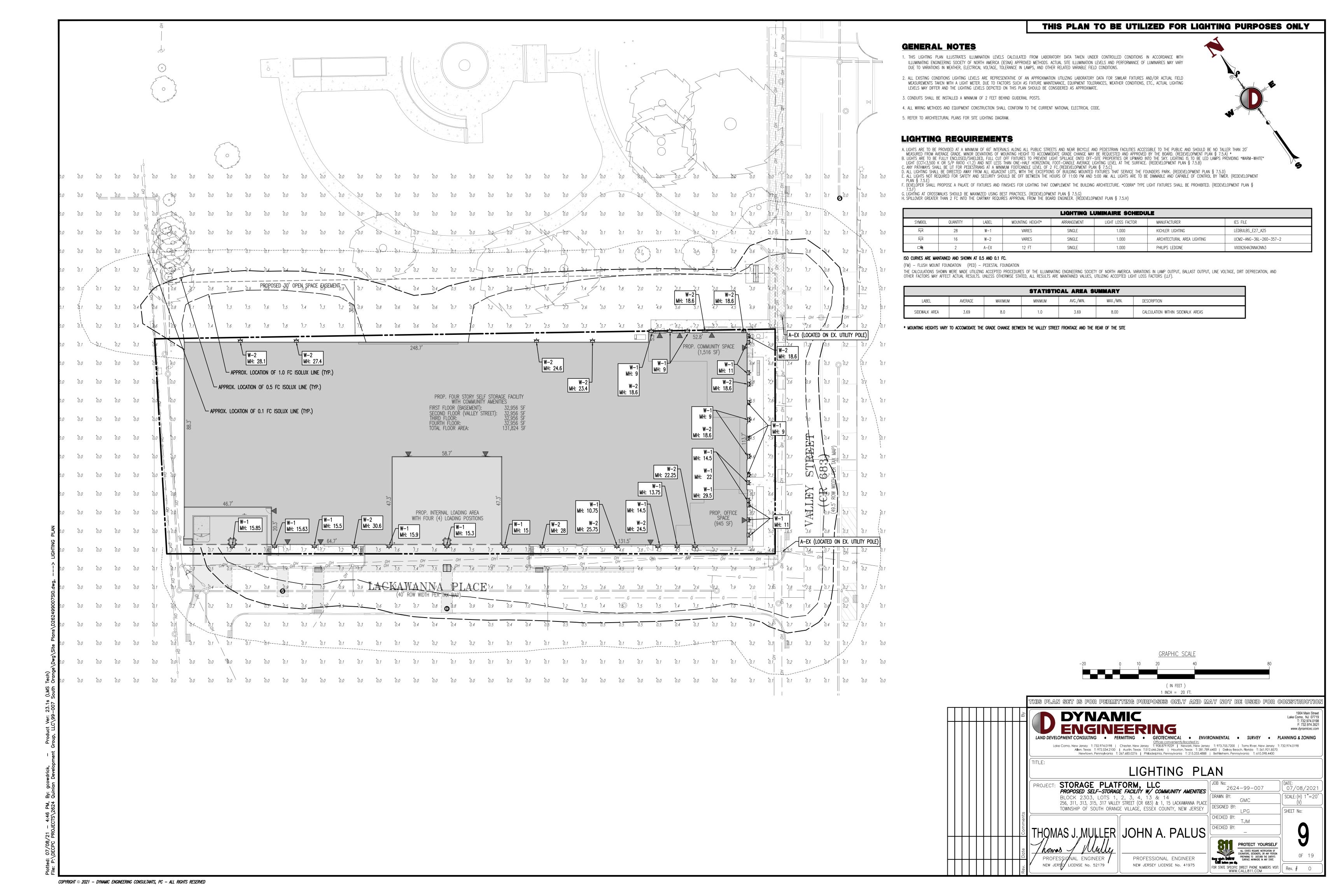
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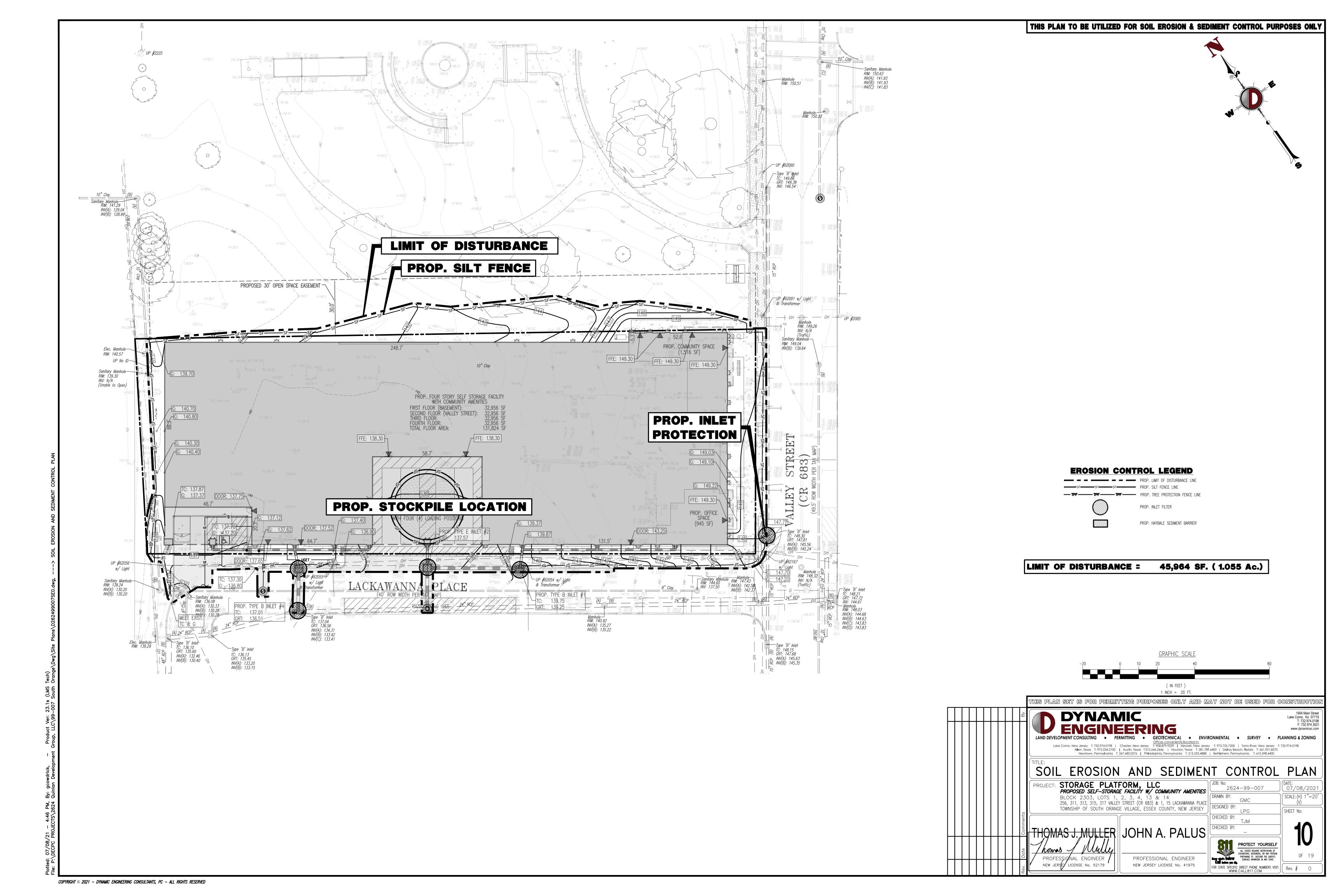
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STANDARD FOR STABILIZATION WITH MULCH ONLY

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
- A. UNROTTED SMALL-GRAIN STRAW, AT 2.0 TO 2.5 TONS PER ACRE, IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MUICH ANCHORING TOOL, LIQUID MUICH BINDERS. OR NETTING TIE DOWN, OTHER SUITABLE MATERIALS MAY BE USED IE APPROVED BY THE SOIL CONSERVATION
- DISTRICT. THE APPROVED RATES ABOVE HAVE BEEN MET WHEN THE MULCH COVERS THE GROUND COMPLETELY UPON VISUAL INSPECTION, I.E. THE SOIL CANNOT BE B. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER.
- C. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1.500 POUNDS PER ACRE (OR ACCORDING TO THE MANUFACTURER'S REQUIREMENTS) MAY BE APPLIED BY A D. MULCH NETTING. SUCH AS PAPER JUTE. EXCELSIOR. COTTON, OR PLASTIC, MAY BE USED.
- E. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUG IT F. GRAVEL, CRUSHED STONE, OR SLAG AT THE RATE OF 9 CUBIC YARDS PER 1,000 SQ. FT. APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 3 INCHES MAY BE USED. SIZE 2 OR 3 (ASTM C-33) IS RECOMMENDED
- 3. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA AND STEEPNESS OF SLOPES. A. PEG AND TWINE
- B. MULCH NETTINGS C. CRIMPER MULCH ANCHORING COULTER TOOL D. LIQUID MULCH-BINDERS

STANDARD FOR PERMANENT STABILIZATION WITH SOD

I. CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD. SPECIFY "CERTIFIED SOD," OR OTHER HIGH QUALITY CULTIVATED SOD.

- 2. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDY GRASSES. 3. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP GROWTH.) 4. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER
- 10 PERCENT OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE. 5. FOR DRAUGHT SITES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD.
- 6. ONLY MOIST, FRESH, UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR LIMING, FERTILIZING, AND SOIL PREPARATION. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING, PAGE 4.11. B. INSTALL NEEDED EROSION CONTROL PRACTICES AND FACILITIES. SUCH AS INTERCEPTOR DITCHES, DIKES AND TERRACES, EROSION STOPS, AND DE-SILTING BASINS, SEE STANDARDS 4.2 THROUGH 4.16.

II. <u>SOIL PREPARATION</u>

A. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN AND INCORPORATED INTO THE SURFACE 4". IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOP-DRESSING. APPLY LIMESTONE AS FOLLOWS: SOIL TEXTURE

TONS/ACRE LBS/1000 SQ. FT CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL SANDY LOAM, LOAM, SILT LOAM

- LOAMY SAND, SAND PULVERIZED DOLOMITE LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.
- B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC. SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCOING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED C. REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE
- ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL. D. INSPECT SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RE-TILLED AND FIRMED AS ABOVE.

- A. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
- B. PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION. C. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS
- SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS. D. ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8 TO 10 INCHES LONG BY 3/4 INCH
- E. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING. PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN
- F. IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.

TOP-DRESSING

- IF SLOW RELEASE NITROGEN IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY, EXCEPT WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP.
- TOP-DRESS WITH 10-0-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.

STANDARD FOR DUST CONTROL

<u>DEFINITION</u> — THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS. PURPOSE - TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-AND OFF- SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC WHERE APPLICABLE - THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD. SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MOCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT	7:1	COARSE SPRAY	1,200
EMULSION			
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300

TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING - TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

PRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

GEOTEXTILE TUBE AND/OR BAGS

PLAN VIEW FILLED WITH 3/4" CLEAN STONE

1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 117F, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY

THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM

6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED

7. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS

NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

INLET FILTER DETAIL

NOT TO SCALE

2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR

CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF STONE. 3. WHERE NO CURB IS PRESENT, BARRIER SHALL COMPLETELY ENCIRCLE THE DRAIN INLET. 4. INLET GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES.

VENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

4" MIN. SECTION A-A

STANDARD FOR PERMANENT VEGETATIVE **COVER FOR SOIL STABILIZATION**

- 1. SITE PREPARATION A. GRADE AS NEFDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING
- B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR
- D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- 2. SFEDBED PREPARATION A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1.000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50%
- WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC. SPRING-TOOTH HARROW, OR OTHER SUITABLE
- C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS

SEEDING A. PERMANENT VEGETATIVE MIXTURES & PLANTING RATES

- 175 LBS/ACRE 4 LBS/1000 SQ.FT. HARD FESCUE -CHEWING FESCUE -175 LBS/ACRE 4 LBS/1000 SQ.FT. STRONG CREEPING RED FESCUE -175 LBS/ACRE 4 LBS/1000 SQ.FT. PERENNIAL RYEGRASS -45 LBS/ACRE 1 LBS/1000 SQ.FT (5) KY, BLUFGRASS -45 LBS/ACRE 1 LBS/1000 SQ.FT.
- B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BÉ INCORPORÀTED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A
- DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL. C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BF MAXIMI7FD.
- D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED. WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORTFIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS. THERE IS A REDUCED SEED GERMINATION AND GROWTH.

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

- A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE
- APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE
- ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST
- 1. PEG AND TWINE MULCH NETTINGS
- 3. CRIMPER MULCH ANCHORING COULTER TOOL 4. LIQUID MULCH-BINDERS

FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

- B. WOOD-FIBER OR PAPER-FIBER MULCH SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEÉDING PERIODS IN SPRING AND FALL.
- C. PELLETIZED MULCH COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 T AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENÓVATION. AREAS, SEEDED AREAS WHERE WEEDSEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

STANDARD FOR TEMPORARY VEGETATIVE **COVER FOR SOIL STABILIZATION**

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION. SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, PG B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
- C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

- A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES - FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM

 PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPSCD: SPRING - 3/1-5/15 AND MAGNESIUM TO GRASSES AND LEGUMES.
- B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILED IN ACCORDANCE WITH THE ABOVE. D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS. PG. 1-1.

- A. TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTHS
- COOL SEASON GRASSES: (1) PFRFNNIAL RYEGRASS - 100 LBS / ACRE: PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 0.5 INCHES. 2) SPRING OATS - 86 LBS / ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES.
- WINTER BARLEY 96 LBS / ACRE; PLANT BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES. 4) ANNUAL RYEGRASS - 100 LBS / ACRE; PLANT BETWEEN MARCH 1 AND JUNE 15 BETWEEN AUGUST 1 AND SEPTEMBER 15; AT A DEPTH OF 0.5 INCHES. (5) WINTER CEREAL RYE - 112 LBS / ACRE; PLANT BETWEEN AUGUST 1 AND NOVEMBER 15; AT A DEPTH OF 1.0 INCHES.

-WARM SEASON GRASSES:

- (1) PEARL MILLET 20 LBS / ACRE; PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES. (2) MILLET (GERMAN OR HUNGARIAN) — 30 LBS / ACRE; PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES.
- B. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, 8. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF

 LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX - (862) 333-4507 OR SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED, SHORT O FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH
- D. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL

MULCHING IS REQUIRED ON ALL SEEDING, MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION. ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING APPROVAL. METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST PFG AND TWINE

- 2. MULCH NETTINGS 3. CRIMPER MULCH ANCHORING COULTER TOOL 4. LIQUID MULCH-BINDERS
- B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, 14. STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. USED AT THE RATE OF 1.500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER AND BE SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL
- C. PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND 15. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIES IN

 FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./1.000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENÓVÁTION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.
- APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

SOIL EROSION & SEDIMENT CONTROL NOTES

- 1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" 7TH EDITION LAST REVISED JULY 2017, EFFECTIVE DECEMBER 2017. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- 2. SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, MAY BE REQUIRED TO BE TEMPORARILY MULCHED, AND SEEDED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER AS PER APPENDIX A3. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.
- SEEDING DATES: THE FOLLOWING SEEDING DATES ARE RECOMMENDED TO BEST ESTABLISH AND <u>FALL - 8/15 - 10/1</u>
- . SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED
- 5. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS, AND PROTECTION SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
- 6. MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 7. ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED
- EMAIL <u>INFORMATION@HEPSCD.ORG</u>

THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING

- <u>IR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM TH</u> RESPECTIVE MUNICIPALITY, NJ - DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AT 862-333-4505 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.
- 10. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR
- 1. ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED TOPSOIL PRIOR TO RE-SEEDING, SODDING OR PLANTING, A DEPTH OF 5.0 INCHES, FIRMED IN PLACE, IS REQUIRED, AS PER THE STANDARDS FOR TOPSOILING AND LAND GRADING, EFFECTIVE DECEMBER
- 12. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND
- 13. A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 ½ -1" CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF 50 FEET AND MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
- APPROVED BY THE SOIL CONSERVATION DISTRICT.
- OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY <u>DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.</u>

PROTECTED ROOT ZONE (PRZ) - CRITICAL ROOT RADIUS (CRR)

PROTECTED ROOT ZONE

TREE PROTECTION FENCE SHALL BE

INSTALLED WITHIN THE LIMIT OF THE

TREE PROTECTION FENCE SHALL BE INSTALLED WITHIN THE LIMIT OF THE

PROTECTED ROOT ZONE

DURING CONSTRUCTION

ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR)

2. MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET

DBH x 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES. DBH x 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY OR TOLERANT SPECIES

1. MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5' ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.

TREE PROTECTION DURING

SITE CONSTRUCTION DETAIL

- ARFA WITHIN PROTECTED ROOT

ZONE TO REMAIN UNDISTURBED

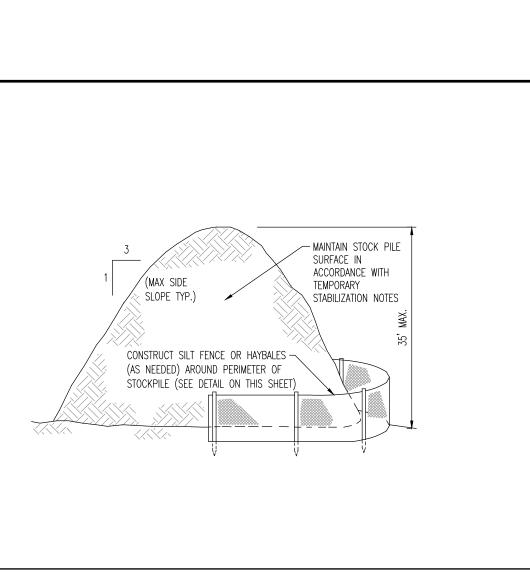
4' WOOD & WIRF SNOW FENCE

W/STEEL STAKES 6'-10" O.C.

- 4' WOOD & WIRE SNOW FENCE W/STEEL STAKES 6'-10" O.C.

SEQUENCE OF CONSTRUCTION:

- PHASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER HAY BALES AND SILT FENCING. (1 DAY)
- PHASE 2: CLEAR AND ROUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES REQUIRING EXCAVATION. (2 WEEKS) PHASE 3: EXCAVATE AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES.
- (3 WEEKS) PHASE 4: EXCAVATE BUILDING FOUNDATION (1 WEEK) PHASE 5: COMPLETE BUILDING CONSTRUCTION. (4 WEEKS)
- PHASE 6: EXCAVATE AND INSTALL ON SITE IMPROVEMENTS INCLUDING CURBING.
- (3 WEEKS) PHASE 7: FINAL GRADE SITE (1 WEEK)
- PHASE 8: INSTALL PAVING, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND LANDSCAPING. (2 WEEKS)
- PHASE 9: REMOVED ALL SOIL EROSION SEDIMENT CONTROL MEASURES INCLUDING INLET PROTECTION AND DOWN SLOPE PERIMETER SILT FENCING UPON COMPLETION. (1 DAY)



TEMPORARY STOCKPILE DETAIL NOT TO SCALE

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EROSION AND SEDIMENT CONTROL PLAN DETAILS

PROJECT: STORAGE PLATFORM, LLC PROPOSED SELF-STORAGE FACILITY W/ COMMUNITY AMENITIES BLOCK 2303, LOTS 1, 2, 3, 4, 13 & 14 256, 311, 313, 315, 317 VALLEY STREET (CR 683) & 1, 15 LACKAWANNA PLACE | DESIGNED BY: TOWNSHIP OF SOUTH ORANGE VILLAGE, ESSEX COUNTY, NEW JERSEY CHECKED BY:

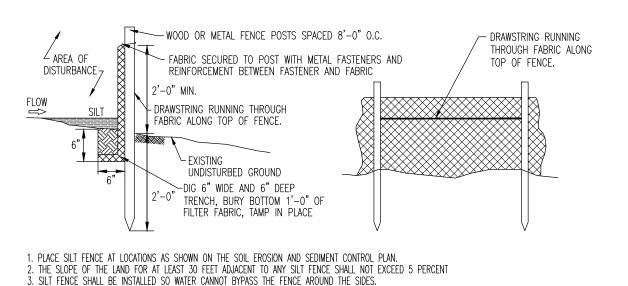
PROFESSIONAL ENGINEER

NEW JERSEY LICENSE No. 52179

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41975

PROTECT YOURSELF PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: | Rev. #

SHEET No:



. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE 5. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP ENGINEER OR SOIL CONSERVATION DISTRIC

6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE 7. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES. 8 A MFTAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEFT HIGH MAY BE LITILIZED. FASTENED TO THE FENCE POSTS TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT 9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND.

THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

1" - 2 1/2" CLEAN STONE-PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC R.O.W. FXISTING GROUND LENGTH OF STONE REQUIRE OF ROADWAY COARSE GRAINED SOILS FINE GRAINED SOILS ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1 STABILIZED CONSTRUCTION ENTRANCE

SILT FENCE DETAIL NOT TO SCALE

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY

SEE CHART 1

3/4" CLEAN STONE TO SEAL

(TYP.) (AS REQUIRED)

WEBTEC INC., OR APPROVED EQUAL.

BY THE SOIL CONSERVATION DISTRICT.

PAVEMENT

