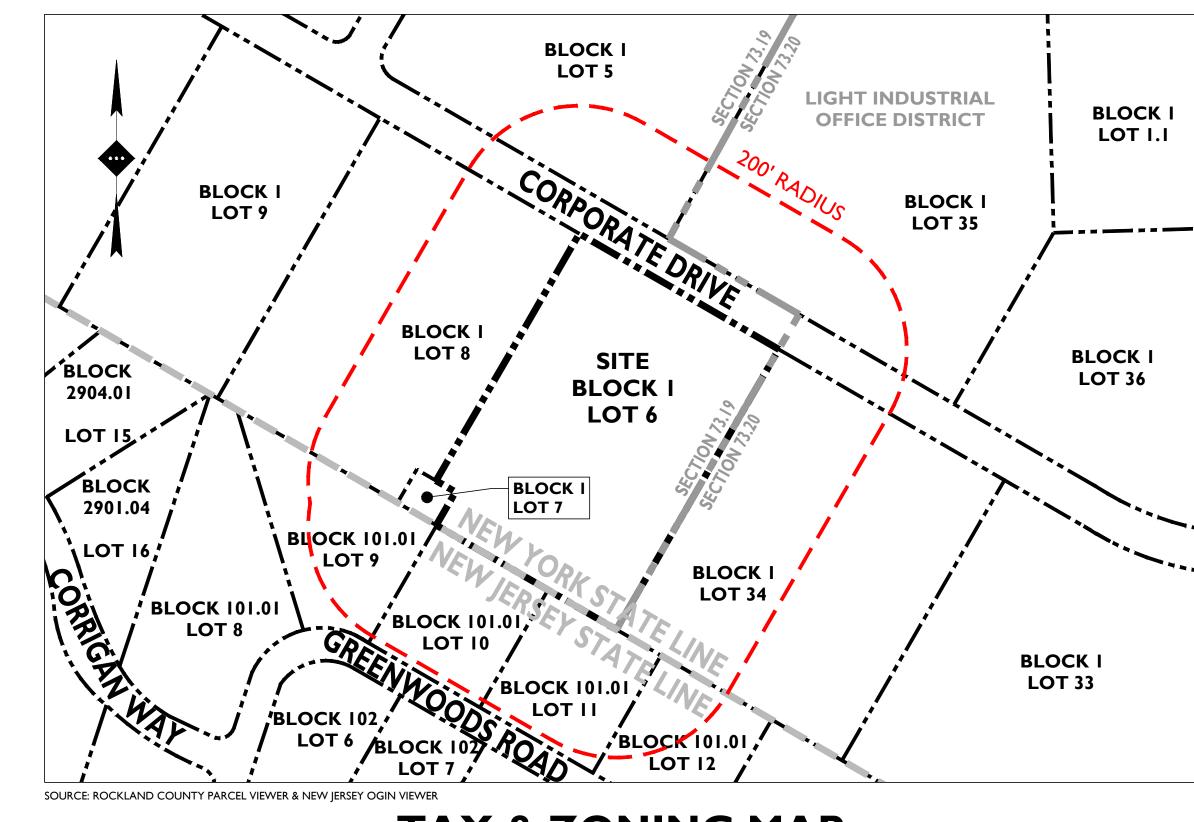


SCALE: |" = 150'±



SITE PLANS FOR MATIV HOLDINGS, INC. **PROPOSED PARKING LOT IMPROVEMENTS**

SECTION 73.19, BLOCK 1, LOT 6 25 CORPORATE DRIVE HAMLET OF ORANGEBURG, TOWN OF ORANGETOWN ROCKLAND COUNTY, NEW YORK



TAX & ZONING MAP

SCALE: |" = 150'±

PLANS PREPARED BY:

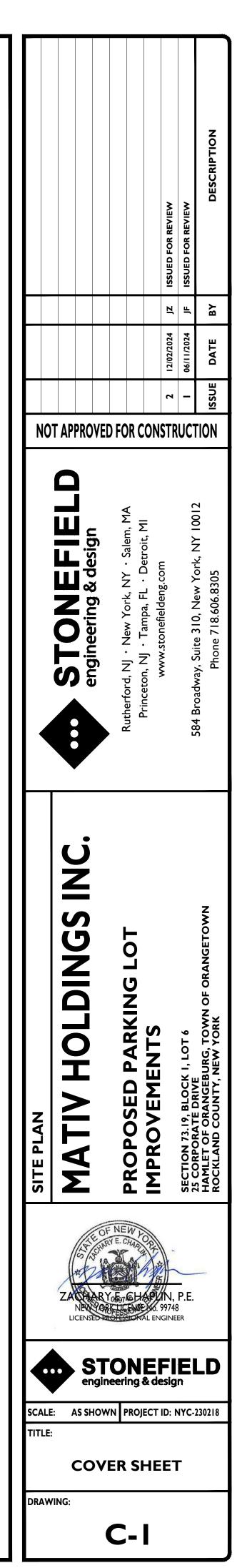


Rutherford, NJ · New York, NY · Salem, MA Princeton, NJ \cdot Tampa, FL \cdot Detroit, MI www.stonefieldeng.com

584 Broadway, Suite 310, New York, NY 10012 Phone 718.606.8305

PLAN REFERENCE MATERIALS:

- I. THIS PLAN SET REFERENCES THE FOLLO INCLUDING, BUT NOT LIMITED TO: SURVEY PREPARED BY STONEFIEL
 - DESIGN, ISSUED 03/05/2024 AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO SATELLITE IMAGERY, DATED 07/18/2022, RETRIEVED 03/29/2024
 - LOCATION MAP OBTAINED FROM USGS 7.5 MINUTE SERIES TOPO MAP, NYACK, NY, DATED 2023 TAX & ZONING MAPS OBTAINED FROM ROCKLAND COUNTY GIS TAX & PARCEL VIEWER AND NEW JERSEY
- ONLINE GEOGRAPHICAL INFORMATION NETWORK 2. ALL REFERENCE MATERIAL LISTED ABOVE SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION
- CONTAINED WITHIN THESE MATERIALS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF EACH REFERENCE AND REVIEW IT THOROUGHLY PRIOR TO THE START OF CONSTRUCTION.



APPLICANT

RICHARD MALLARD MATIV HOLDINGS, INC **25 CORPORATE DRIVE ORANGEBURG, NY 10962** (845) 270-4672 RICHARD.MALLARD@MATIV.COM

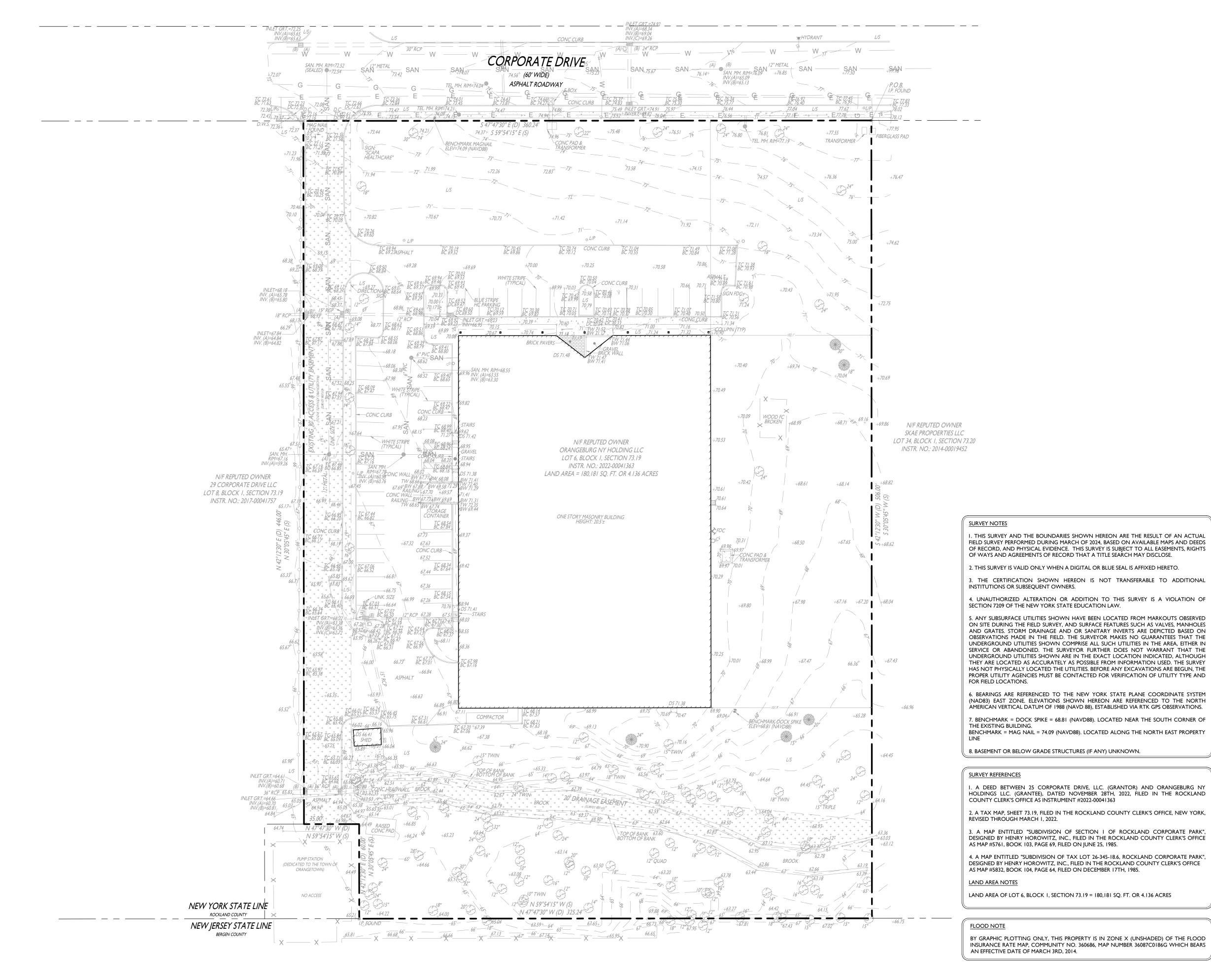
OWNER

ORANGEBURG NY HOLDINGS LLC 141 AYERS CT. SUITE IA TEANECK, NJ 07666 201-308-6118 STEVEN@SOLOMONB.COM



L2:	
WING	DOCUMENTS
D EN	GINEERING &

SHEET INDEX						
SHEET #						
C-I						
C-2						
C-3						
C-4						
C-5						
C-6						
C-7						
C-8						
C-9						
C-10 - C-11						
C-12 - C-13						









ARE THE RESULT OF AN ACTUAL ON AVAILABLE MAPS AND DEEDS JECT TO ALL EASEMENTS, RIGHTS RCH MAY DISCLOSE.
AL IS AFFIXED HERETO.
RANSFERABLE TO ADDITIONAL
s survey is a violation of
ED FROM MARKOUTS OBSERVED RES SUCH AS VALVES, MANHOLES (ERTS ARE DEPICTED BASED ON ES NO GUARANTEES THAT THE TILITIES IN THE AREA, EITHER IN DES NOT WARRANT THAT THE CATION INDICATED, ALTHOUGH IFORMATION USED. THE SURVEY (EXCAVATIONS ARE BEGUN, THE FICATION OF UTILITY TYPE AND
TE PLANE COORDINATE SYSTEM E REFERENCED TO THE NORTH ED VIA RTK GPS OBSERVATIONS.
NEAR THE SOUTH CORNER OF
NG THE NORTH EAST PROPERTY
NOWN.
NTOR) AND ORANGEBURG NY 022, FILED IN THE ROCKLAND
NTY CLERK'S OFFICE, NEW YORK,

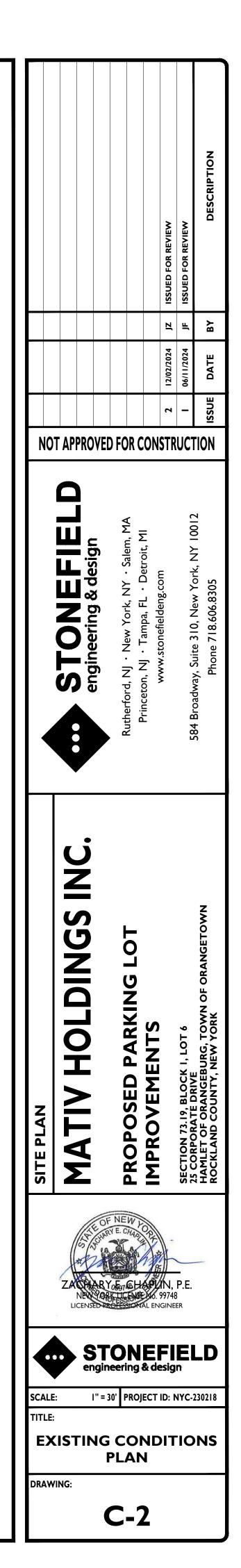
DESCRIPTION

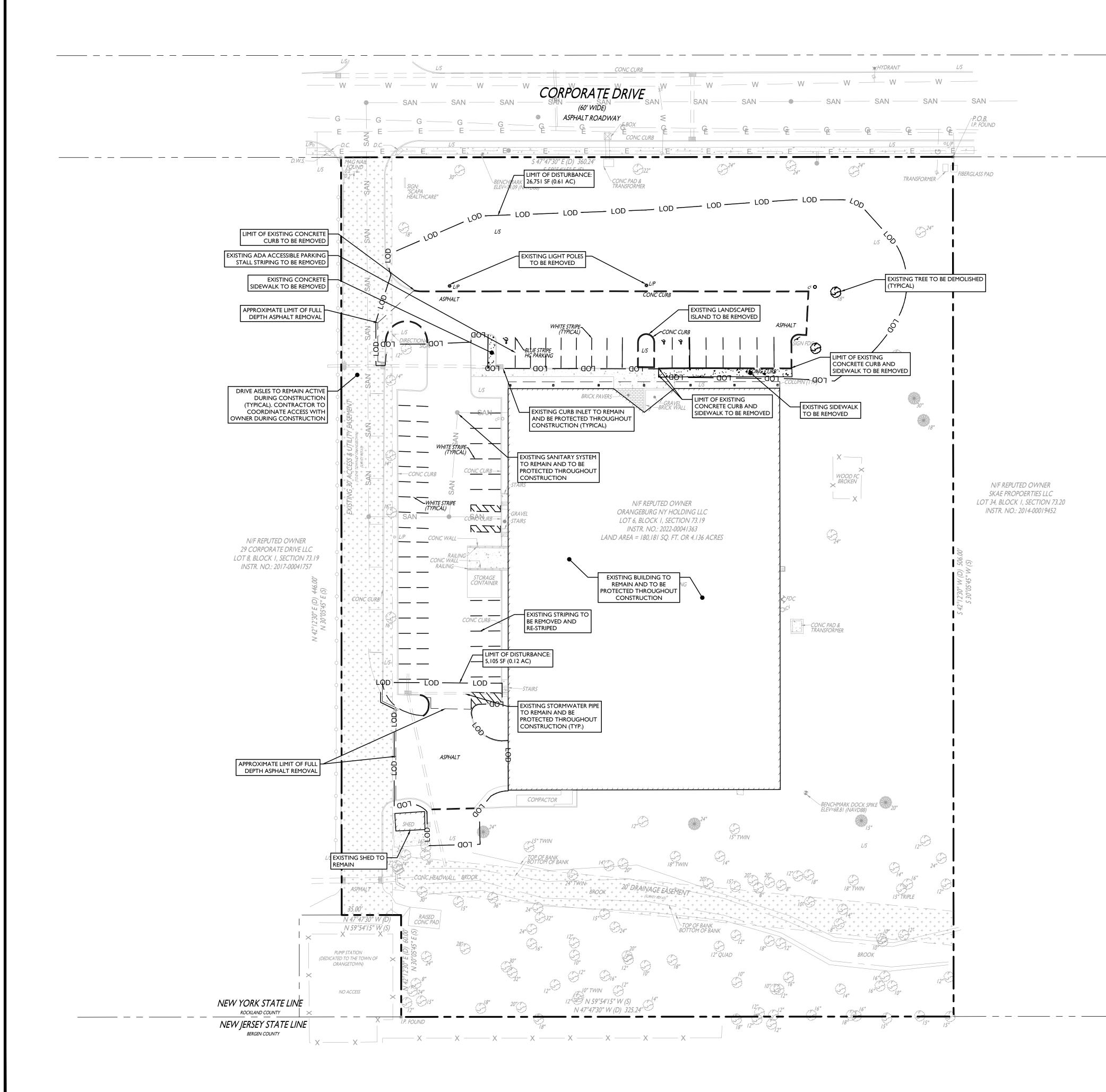
BUILDING CONCRETE SIDEWALK / MAT ASPHALT / CONCRETE CURB DEPRESSED CURB PROPERTY LINE ADJACENT PROPERTY LINE IRON ROD HANDRAIL MAST ARM LIGHT POLE POLE LIGHT FIXTURE SIGNS WATER VALVE GAS VALVE INLET MAN HOLE BOLLARDS FIRE DEPARTMENT CONNECTION EDGE OF PAVEMENT OVERHEAD WIRE UNDERGROUND GAS LINE UNDERGROUND WATER LINE UNDERGROUND ELEC LINE MAJOR CONTOUR MINOR CONTOUR GRADE SPOT SHOT TOP OF CURB SHOT BOTTOM OF CURB SHOT HANDICAP PARKING LANDSCAPING GAS METER AIR CONDITIONING UNIT PINE TREE - DIAMETER NOTED CLEAN OUT IRON PIN BENCH MARK DETECTABLE WARNING STRIP

SURVEY NOTES: I. THE SURVEY LISTED WITHIN THE PLAN REFERENCES ON THE COVER SHEET SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION CONTAINED WITHIN THE SURVEY AND ASSOCIATED DOCUMENTS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF THE SURVEY AND REVIEW IT THOROUGHLY

PRIOR TO THE START OF CONSTRUCTION.

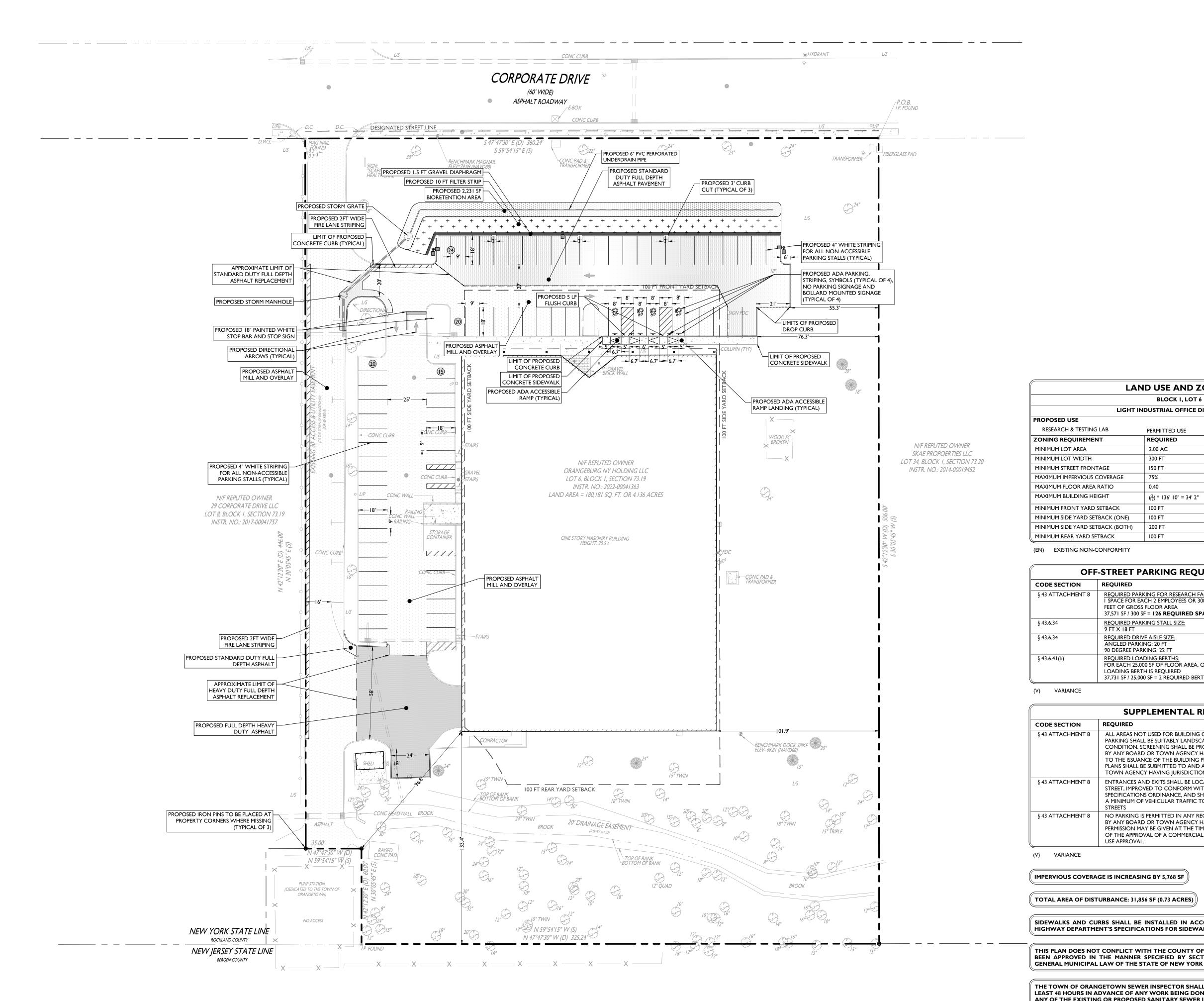
GRAPHIC SCALE IN FEET I" = 30'

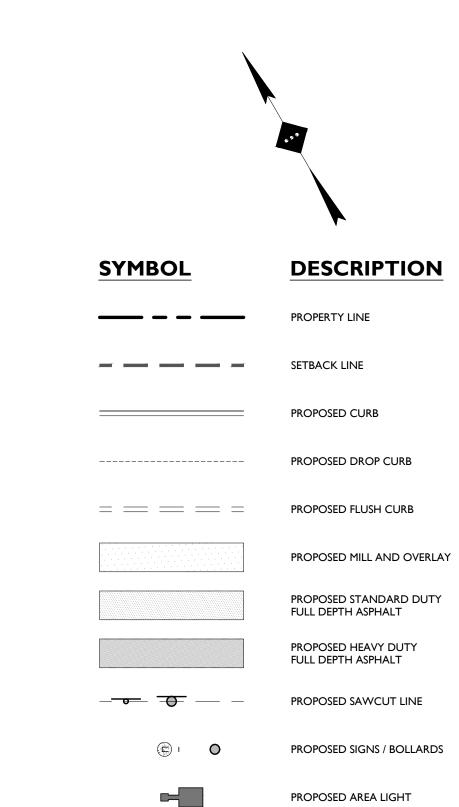




ONEFIELDENG COMISHARESILICINY CI2023IN YC-230218 GREGORY RALPH, ARCHITECT - 25 CORPORATE DRIVE, ORANGEBURG, NYICADDIPLOTIXXX-03-DEMO.DWG







LAND USE AND ZONING **BLOCK I, LOT 6**

LIGHT INDUSTRIAL OFFICE DISTRICT (LIO)

	PERMITTED USE		
	REQUIRED	EXISTING	PROPOSED
	2.00 AC	4.14 AC (180,181 SF)	NO CHANGE
	300 FT	360.2 FT	NO CHANGE
	150 FT	360.2 FT	NO CHANGE
	75%	42.9% (77,332 SF)	46.9% (84,490 SF)
	0.40	0.21 (37,571 SF)	NO CHANGE
	$\left(\frac{3}{12}\right) * 136' 10'' = 34' 2''$	<34' 2"	NO CHANGE
	100 FT	136.8 FT	NO CHANGE
E)	100 FT	96.8 FT (EN)	NO CHANGE
ΓH)	200 FT	198.7 FT (EN)	NO CHANGE
	100 FT	133.4 FT	NO CHANGE
			3

OFF-STREET PARKING REOUIREMENTS

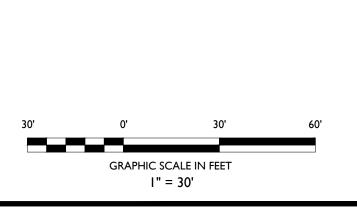
	15
REQUIRED	PROPOSED
REQUIRED PARKING FOR RESEARCH FACILITIES: I SPACE FOR EACH 2 EMPLOYEES OR 300 SQUARE FEET OF GROSS FLOOR AREA 37,571 SF / 300 SF = 126 REQUIRED SPACES	79 SPACES (V)
REQUIRED PARKING STALL SIZE: 9 FT X 18 FT	9 FT X 18 FT
REQUIRED DRIVE AISLE SIZE: ANGLED PARKING: 20 FT 90 DEGREE PARKING: 22 FT	25 FT
REQUIRED LOADING BERTHS: FOR EACH 25,000 SF OF FLOOR AREA, ONE LOADING BERTH IS REQUIRED 37,731 SF / 25,000 SF = 2 REQUIRED BERTHS	2 BERTHS COMPLIES

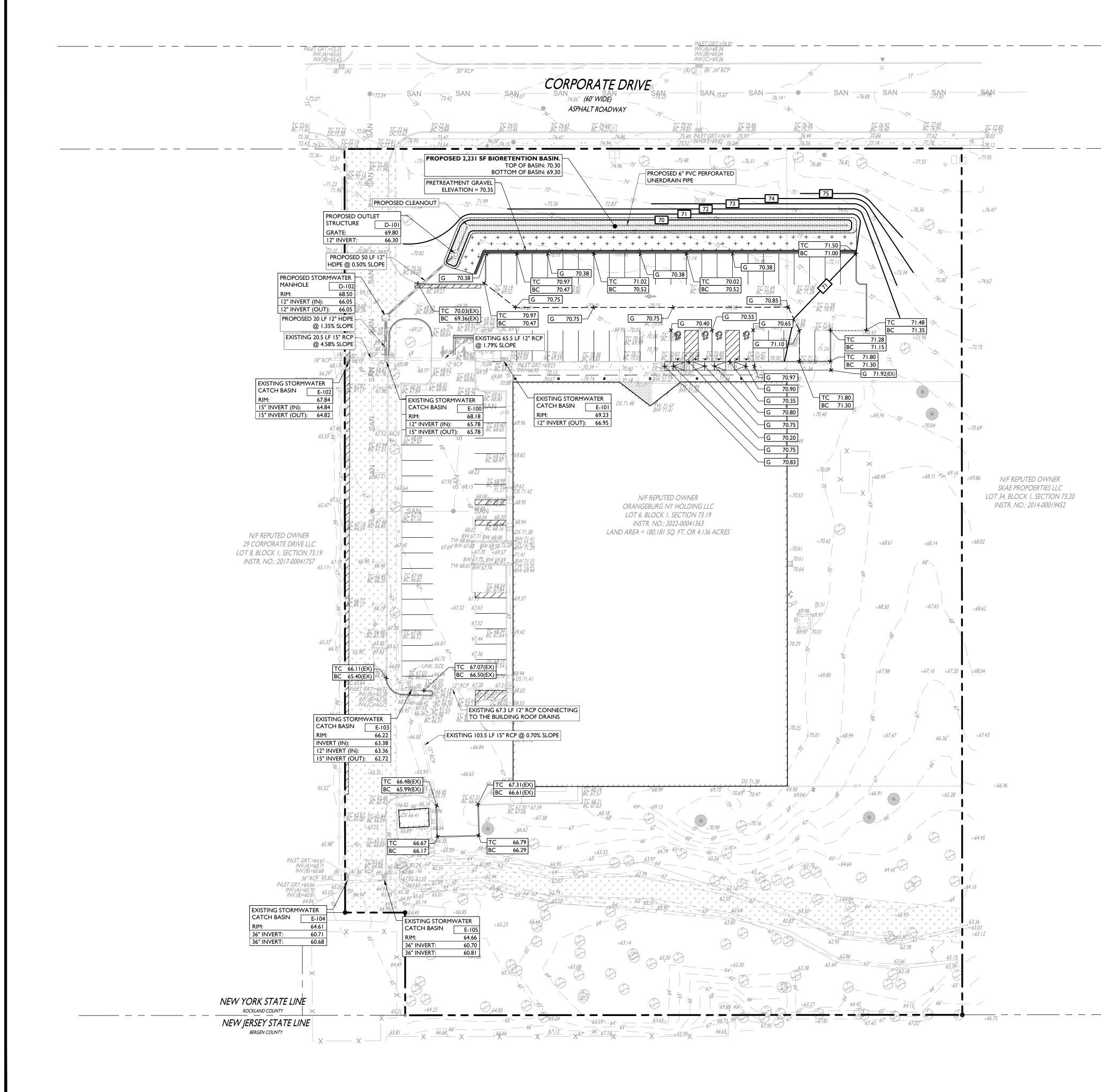
SUPPLEMENTAL REQUIREMENTS	
ED	PROPOSED
AS NOT USED FOR BUILDING OR FOR ACCESSORY OFF-STREET G SHALL BE SUITABLY LANDSCAPED AND MAINTAINED IN GOOD ION. SCREENING SHALL BE PROVIDED IN THE MANNER REQUIRED BOARD OR TOWN AGENCY HAVING JURISDICTION, AND PRIOR ISSUANCE OF THE BUILDING PERMIT, THE PROPOSED SCREENING HALL BE SUBMITTED TO AND APPROVED BY ANY BOARD OR AGENCY HAVING JURISDICTION.	COMPLIES
ICES AND EXITS SHALL BE LOCATED ONLY ON A COMMERCIAL IMPROVED TO CONFORM WITH THE TOWN BOARD ATIONS ORDINANCE, AND SHALL BE SO LOCATED AS TO DRAW UM OF VEHICULAR TRAFFIC TO AND THROUGH RESIDENTIAL	COMPLIES
KING IS PERMITTED IN ANY REQUIRED YARD, UNLESS PERMITTED BOARD OR TOWN AGENCY HAVING JURISDICTION. THIS ON MAY BE GIVEN AT THE TIME OF SITE REVIEW, OR AT THE TIME APPROVAL OF A COMMERCIAL SUBDIVISION OR CONDITIONAL ROVAL.	DOES NOT COMPLY (V)

SIDEWALKS AND CURBS SHALL BE INSTALLED IN ACCORDANCE WITH THE HIGHWAY DEPARTMENT'S SPECIFICATIONS FOR SIDEWALKS AND CURBS

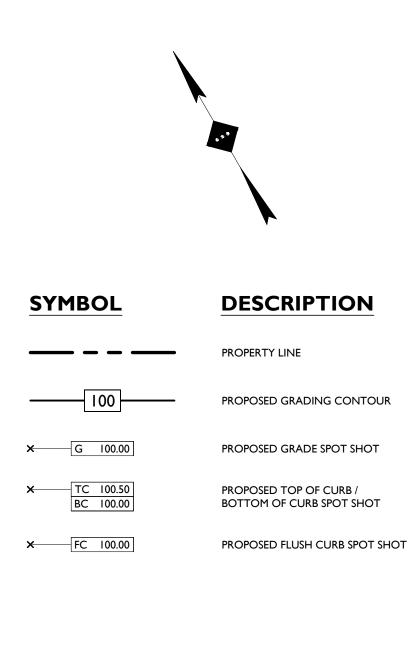
THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE

THE TOWN OF ORANGETOWN SEWER INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY WORK BEING DONE ON OR NEAR THE ANY OF THE EXISTING OR PROPOSED SANITARY SEWER IMPROVEMENTS AND OR THE PROPOSED SANITARY BUILDING CONNECTION





ONEFIELDENG. COMISHARESILICINY C12023INY C-2302 I8 GREGORY RALPH, ARCHITECT - 25 CORPORATE DRIVE, ORANGEBURG, NYICADDIPLOTIXXX-05-GRAD. DWG



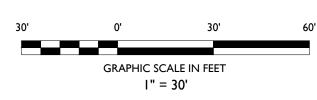
LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED

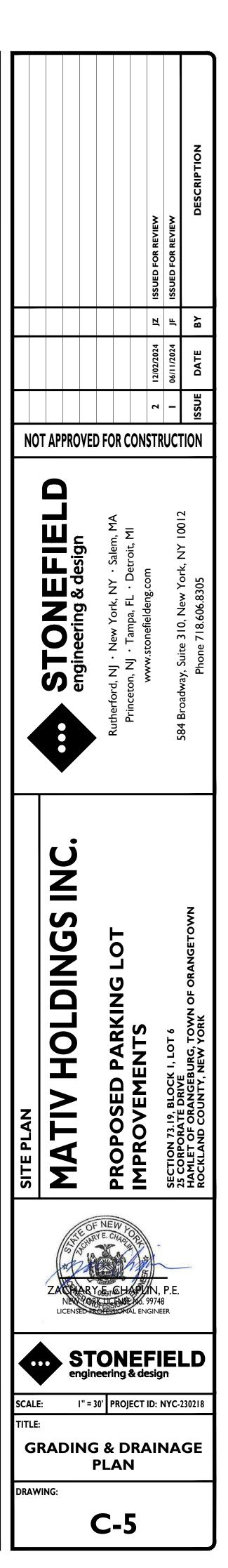
GRADING NOTES

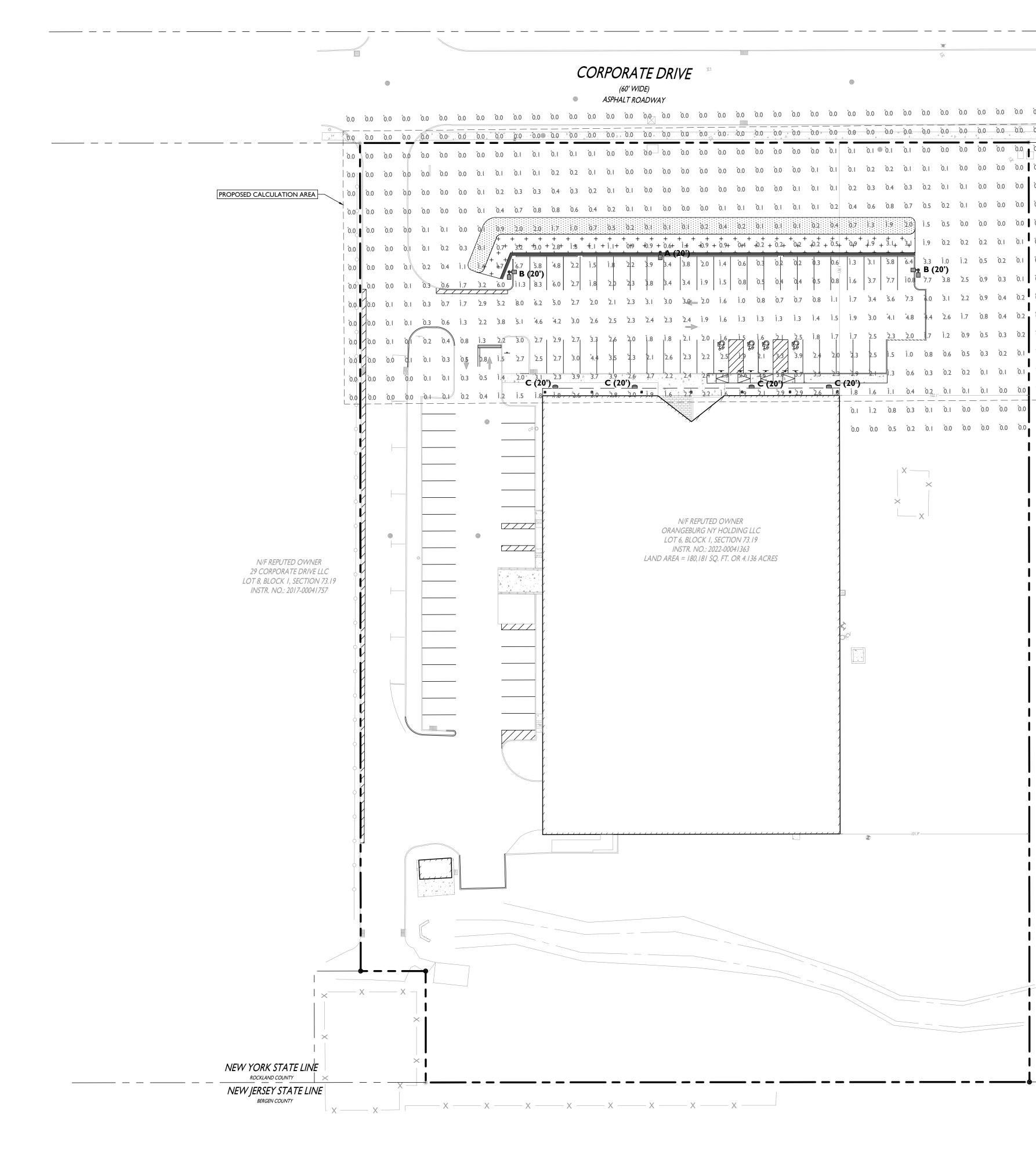
- 1. ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. ANY GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL FILL MATERIALS BROUGHT TO THE SITE.
- 2. THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES, INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES, TO ENSURE THE STRUCTURAL INTEGRITY OF NEARBY STRUCTURES AND STABILITY OF THE SURROUNDING SOILS.
- 3. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4 INCHES TO 7 INCHES ABOVE EXISTING GRADES UNLESS OTHERWISE NOTED. THE CONTRACTOR WILL SUPPLY ALL STAKEOUT CURB GRADE SHEETS TO STONEFIELD ENGINEERING & DESIGN, LLC. FOR REVIEW AND APPROVAL PRIOR TO POURING CURBS.
- THE CONTRACTOR IS RESPONSIBLE TO SET ALL PROPOSED UTILITY COVERS AND RESET ALL EXISTING UTILITY COVERS WITHIN THE PROJECT LIMITS TO PROPOSED GRADE IN ACCORDANCE WITH ANY APPLICABLE MUNICIPAL, COUNTY, STATE AND/OR UTILITY AUTHORITY REGULATIONS.
 MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:
- CURB GUTTER: 0.50%
 CONCRETE SURFACES: 1.00%
- ASPHALT SURFACES: 1.00%
 A MINIMUM SLOPE OF 1.00% SHALL BE PROVIDED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE BUILDING IS ACHIEVED AND SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF THIS CONDITION CANNOT BE MET.
 FOR PROJECTS WHERE BASEMENTS ARE PROPOSED, THE DEVELOPER IS
- RESPONSIBLE TO DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED STRUCTURE. IF GROUNDWATER IS ENCOUNTERED WITHIN THE BASEMENT AREA, SPECIAL CONSTRUCTION METHODS SHALL BE UTILIZED AND REVIEWED/APPROVED BY THE CONSTRUCTION CODE OFFICIAL. IF SUMP PUMPS ARE UTILIZED, ALL DISCHARGES SHALL BE CONNECTED DIRECTLY TO THE PUBLIC STORM SEWER SYSTEM WITH APPROVAL FROM THE GOVERNING STORM SEWER SYSTEM AUTHORITY.

ADA NOTES

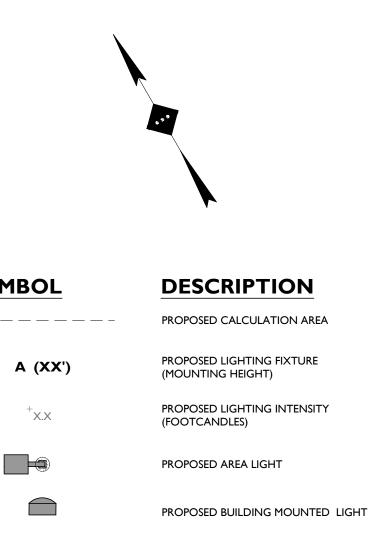
- I. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION WITHIN THE ADA PARKING SPACES AND ACCESS AISLES.
- THE CONTRACTOR SHALL PROVIDE COMPLIANT SIGNAGE AT ALL ADA PARKING AREAS IN ACCORDANCE WITH STATE GUIDELINES.
 THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 5.00% RUNNING SLOPE AND A MAXIMUM OF 2.00% CROSS SLOPE ALONG WALKWAYS WITHIN THE ACCESSIBLE PATH OF TRAVEL (SEE THE SITE PLAN FOR THE LOCATION OF THE ACCESSIBLE PATH). THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE ACCESSIBLE PATH OF TRAVEL IS 36 INCHES WIDE OR GREATER UNLESS INDICATED OTHERWISE WITHIN
- THE PLAN SET.
 4. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION AT ALL LANDINGS. LANDINGS INCLUDE, BUT ARE NOT LIMITED TO, THE TOP AND BOTTOM OF AN ACCESSIBLE RAMP, AT ACCESSIBLE BUILDING ENTRANCES, AT AN AREA IN FRONT OF A WALK-UP ATM, AND AT TURNING SPACES ALONG THE ACCESSIBLE PATH OF TRAVEL. THE LANDING AREA SHALL HAVE A MINIMUM CLEAR AREA OF 60 INCHES BY 60 INCHES UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
- 5. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 8.33% RUNNING SLOPE AND A MAXIMUM 2.00% CROSS SLOPE ON ANY CURB RAMPS ALONG THE ACCESSIBLE PATH OF TRAVEL. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 10.00% IF A LANDING AREA IS PROVIDED AT THE TOP OF THE RAMP. FOR ALTERATIONS, A CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 8.33% IF A LANDING AREA IS NOT PROVIDED AT THE TOP OF THE RAMP. CURBS RAMPS SHALL NOT RISE MORE THAN 6 INCHES IN ELEVATION WITHOUT A HANDRAIL. THE CLEAR WIDTH OF A CURB RAMP SHALL PESS THAN 36 INCHES WIDE
- OF A CURB RAMP SHALL BE NO LESS THAN 36 INCHES WIDE.
 6. ACCESSIBLE RAMPS WITH A RISE GREATER THAN 6 INCHES SHALL CONTAIN COMPLIANT HANDRAILS ON BOTH SIDES OF THE RAMP AND SHALL NOT RISE MORE THAN 30" IN ELEVATION WITHOUT A LANDING AREA IN BETWEEN RAMP RUNS. LANDING AREAS SHALL ALSO BE PROVIDED AT THE TOP AND BOTTOM OF THE RAMP.
 7. A SLIP RESISTANT SURFACE SHALL BE CONSTRUCTED ALONG THE
- ACCESSIBLE PATH AND WITHIN ADA PARKING AREAS.
 8. THE CONTRACTOR SHALL ENSURE A MAXIMUM OF ¹/₄ INCHES VERTICAL CHANGE IN LEVEL ALONG THE ACCESSIBLE PATH. WHERE A CHANGE IN LEVEL BETWEEN ¹/₄ INCHES AND ¹/₂ INCHES EXISTS, CONTRACTOR SHALL ENSURE THAT THE TOP ¹/₄ INCH CHANGE IN LEVEL IS BEVELED WITH A SLOPE NOT STEEPER THAN I UNIT VERTICAL AND 2 UNITS HORIZONTAL (2:1 SLOPE).
- 9. THE CONTRACTOR SHALL ENSURE THAT ANY OPENINGS (GAPS OR HORIZONTAL SEPARATION) ALONG THE ACCESSIBLE PATH SHALL NOT ALLOW PASSAGE OF A SPHERE GREATER THAN ½ INCH.



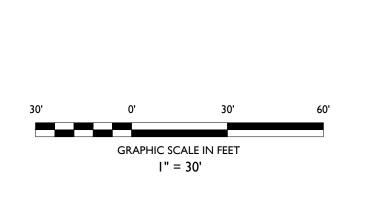


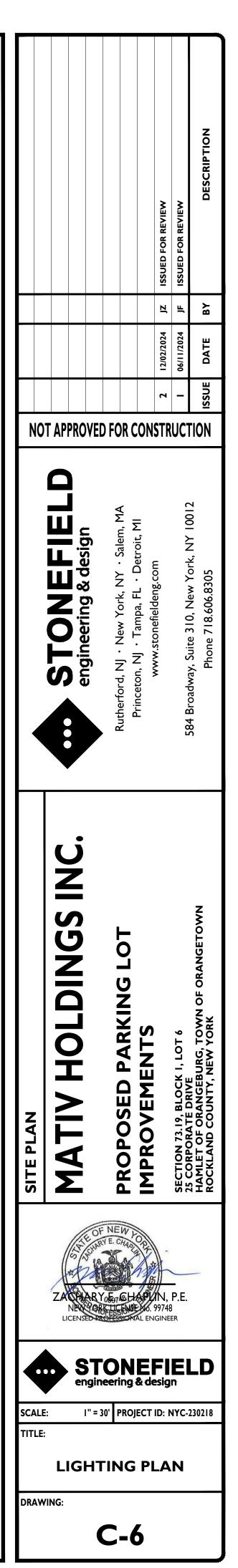


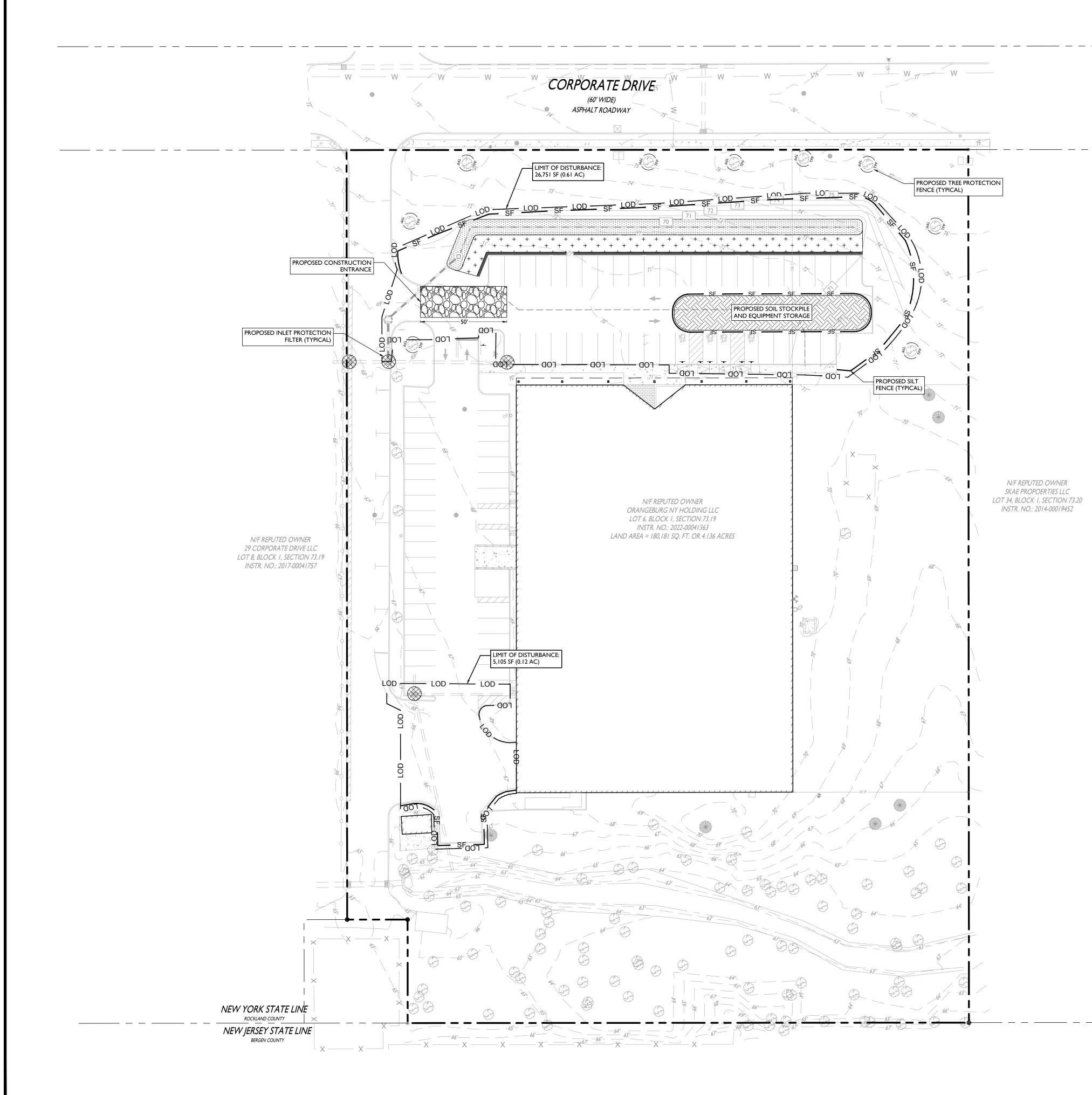
DRATE DRIVE ^{X3} (60' WIDE)	•	×	 &											
$\frac{\partial ALT ROADWAY}{\partial 0.0 0.0$	0 0.0 0.0 0.0 0.0 0.0	0 0.0 0.0 0.0	0.0 0.0 0).0 [†] 0.0 [†] 0.	0 ⁰ .0							SYMBOL	<u> </u>	ESCRIPTION
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0												— — — – PR(OPOSED CALCULATION AREA
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 0.1 0.1 0.1 0.2 1 0.1 0.1 0.2 0.3	+ + + +		0.0 ⁰ .0 ⁰ .0	0 0.0							A (X)	(M0	OPOSED LIGHTING FIXTURE OUNTING HEIGHT)
0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.0 0.0 0.0 0.1 0.1 0.1 0.1	+ + + + .				.0 [†] 0.0							+X.X		oposed lighting intensity Dotcandles)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<u></u>		0.5 [°] 0.0 [°] 0.2	0.0 [°] 0.0 [°] 0 0.2 [°] 0.1 [°] 0	.0 [†] 0.0 .1 [†] 0.0								PRO	OPOSED AREA LIGHT
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5.8 6.4 3.3 B (20 7.7 10.8 7.7	1.0 1.2 0 ') 3.8 2.5 0	0.5 0.2 0 0.9 0.3 0	.1 0.1								PR(OPOSED BUILDING MOUNTED LIGH
ちょうようさうちょうちょう 1.3 1.3 1.3 1.3	3 1.4 1.5 1.9 3.0	⁺ 4.1 ⁺ 4.8 ⁺ 4.4	2.6 1.7	[•] 0.8 [•] 0.4 [•] 0	0.2 [†] 0.1									
2.0 1.8 1.8 2.1 2.0 1.6 5 3.6 2.1 2.0 3.6	.5 1.8 1.7 1.7 2.5 .9 2.4 2.0 2.3 2.5	2.3 2.0 1.7	1.2 0.9	0.5 0.3 0 0.3 0.2 0	0.2 0.1 0.1 0.1	SYMBOL	LABEL	QUANTITY	_	DISTRIBUTION		MANUFACTURER	IES FILE	
	7 35 23 29 21	1.3 ^{0.6} ^{0.3}					A	I	EVOLVE LED AREA LIGHT (EACL)	ASYMMETRIC FORWARD THROW (TYPE IV)	0.9	GE CURRENT	EACL01_D4AF740	-ELS-EAC-RBL-BLCK.IES
20') 	<u>.9 2.6 I.8</u> I.8 I.6 	1.1 0.4 0.2 0.8 0.3 0.1	·				В	2	EVOLVE LED AREA LIGHT (EACL)	ASYMMETRIC WIDE THROW (TYPE IV)	0.9	GE CURRENT	EACL01_D3AW740	-ELS-EAC-ABL-BLCK.IES
		0.5 [°] 0.2 [°] 0.1					с	4	CREE EDGE WALL MOUNTED LIGHT	TYPE IV	0.9	CREE	SEC-EDG-4M8-E-U	UL-350-40K-CONFIGURED.IES
NVF REPUTED OWNER ORANGEBURG NY HOLDING LLC LOT 6, BLOCK 1, SECTION 73.19 INSTR. NO.: 2022-00041363 LAND AREA = 180,181 SQ. FT. OR 4.136 ACRES		XX XX										CALCULATE MANUFACTU OF ANY F UNCONTRO SUPPLY, LAN VARIABLE FIE 2. WHERE APP THE PLAN S LIGHT LEVE MANUFACTU LIGHTING FI 3. UNLESS NOT FACTORS US • LIGHT EM • HIGH PRE • METAL H/ 4. THE CONT DESIGN, LLC OF ANY PR EXISTING/ PF 5. THE CONTR PROVIDE ELI THE CONTR WIRING AN	ING LEVELS DEPICTED D UTILIZING DATA JRER. ACTUAL ILLUMIN/ PROPOSED LIGHTING DULABLE VARIABLES SI 4P TOLERANCE, EQUIP ELD CONDITIONS. LICABLE, THE EXISTING ET SHALL BE CONSIDE SLICABLE, THE EXISTING ET SHALL BE CONSIDE SICA ARE BASED ON I JRER'S DATA OF TH XTURE MODEL. FED ELSEWHERE WITHIF SED IN THE LIGHTING AI ITTING DIODES (LED): SSURE SODIUM: ALIDE: RACTOR SHALL NOTI . IN WRITING, PRIOR TO OPOSED LIGHTING LO ROPOSED DRAINAGE, U' ACTOR IS RESPONSIBLE ECTRIC SERVICE TO AL VACTOR IS REQUIRED T	D WITHIN THE PLAN SET ARE OBTAINED FROM THE LISTED ATION LEVELS AND PERFORMANCE FIXTURE MAY VARY DUE TO UCH ARE WEATHER, VOLTAGE PMENT SERVICE LIFE AND OTHER G LIGHT LEVELS DEPICTED WITHIN RED APPROXIMATE. THE EXISTING FIELD OBSERVATIONS AND THE 4E ASSUMED OR MOST SIMILAR N THIS PLAN SET, THE LIGHT LOSS NALYSIS ARE AS FOLLOWS: 0.90 0.72 0.72 IFY STONEFIELD ENGINEERING & O THE START OF CONSTRUCTION, DCATIONS THAT CONFLICT WITH TILITY, OR OTHER IMPROVEMENTS. TO PREPARE A WIRING PLAN AND L PROPOSED LIGHTING FIXTURES. TO PREPARE AN AS-BUILT PLAN OF D THE OWNER AND STONEFIELD

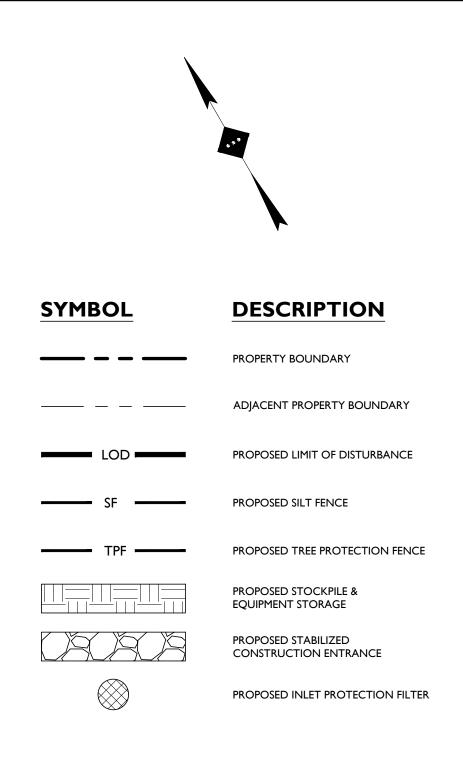


- то ٨GE
- NG ILAR DSS
- DN. ND







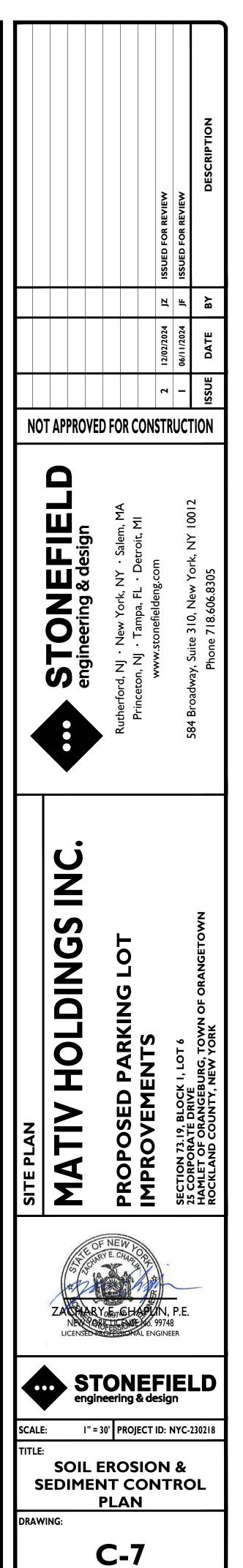


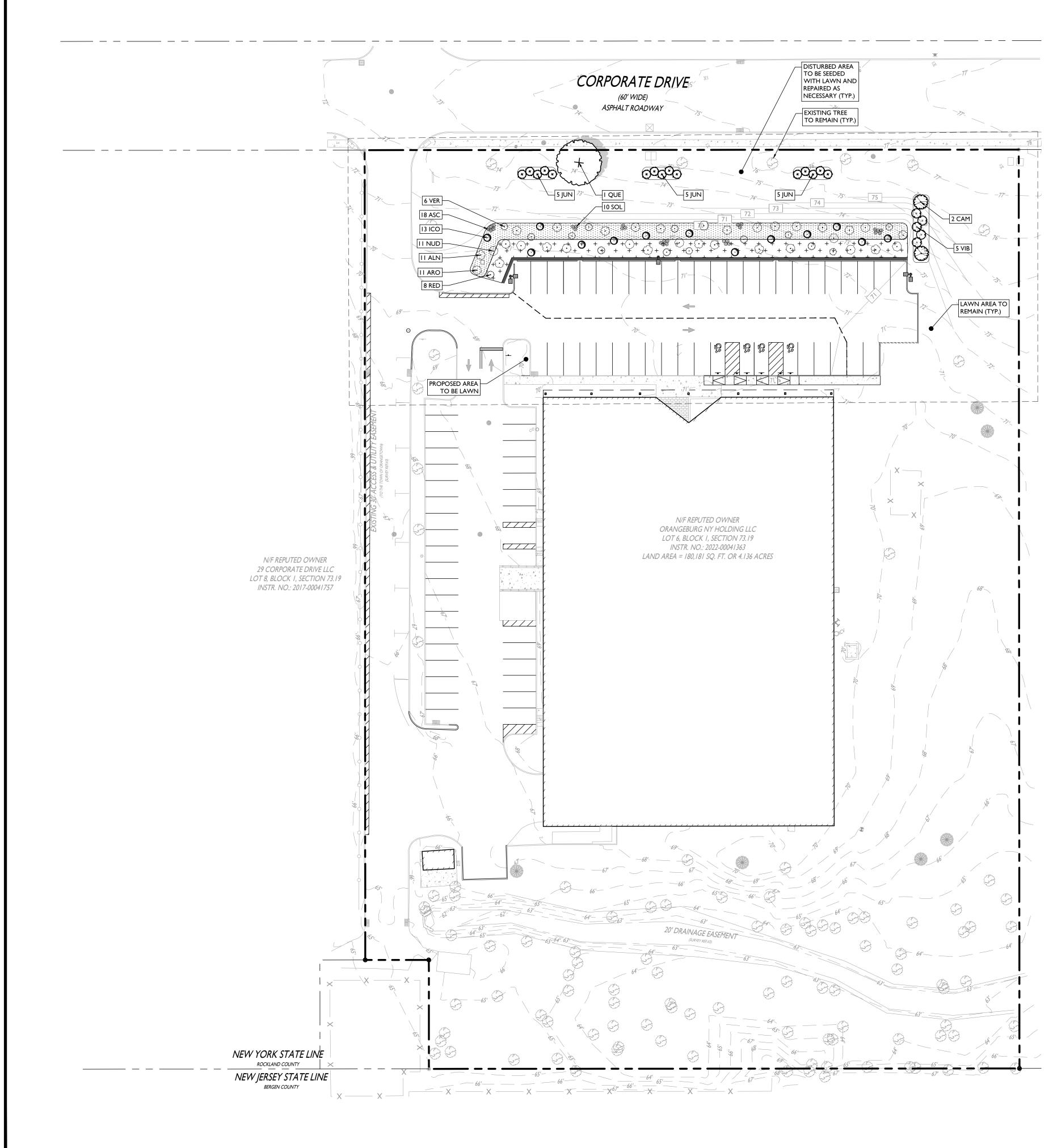
SOIL EROSION AND SEDIMENT CONTROL NOTES

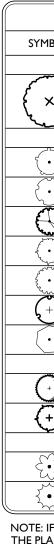
- I. THE CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT THE CONTROL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
 THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY STANDARDS.
- standards.
- 3. THE CONTRACTOR IS RESPONSIBLE TO INSPECT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER A PRECIPITATION EVENT GREATER THAN I INCH. THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG ON SITE AND DOCUMENT CORRECTIVE ACTION TAKEN THROUGHOUT THE COURSE OF CONSTRUCTION AS REQUIRED.

TOTAL AREA OF DISTURBANCE: 31,856 SF (0.73 ACRES)

30'	0'	30'	60'
	GRAPHIC SC " =		







			PLANT SCHI	EDULE					
MBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER			
DECIDUOUS TREES									
×	QUE	I	QUERCUS PALUSTRIS	PIN OAK	2.5" - 3" CAL	B&B			
			SHRUBS		II				
•	ARO	11	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	18" - 24"	POT			
•}	ALN	11	CLETHRA ALNIFOLIA	SUMMERSWEET	18" - 24"	POT			
N	CAM	2	CORNUS AMOMUM	SILKY DOGWOOD	18" - 24"	POT			
•	VER	6	ILEX VERTICILLATA 'JIM DANDY'	JIM DANDY WINTERBERRY	18" - 24"	POT			
	RED	8	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	18" - 24"	POT			
+	VIB	5	VIBURNUM DENTATUM	VIBURNUM	18" - 24"	POT			
$\overline{\cdot}$	NUD	11	VIBURNUM NUDUM	POSSUMHAW	18" - 24"	POT			
			EVERGREEN SH	RUBS					
+	ICO	13	ILEX GLABRA `COMPACTA`	COMPACT INKBERRY	18" - 24"	POT			
+)	JUN	15	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	18" - 24"	POT			
	·		PERENNIAL	S	· •				
•3	ASC	18	ASCLEPIAS INCARNATA	SWAMP MILKWEED	I GAL.	POT			
	SOL	10	SOLIDAGO CAESIA	WREATH GOLDENROD	I GAL.	POT			

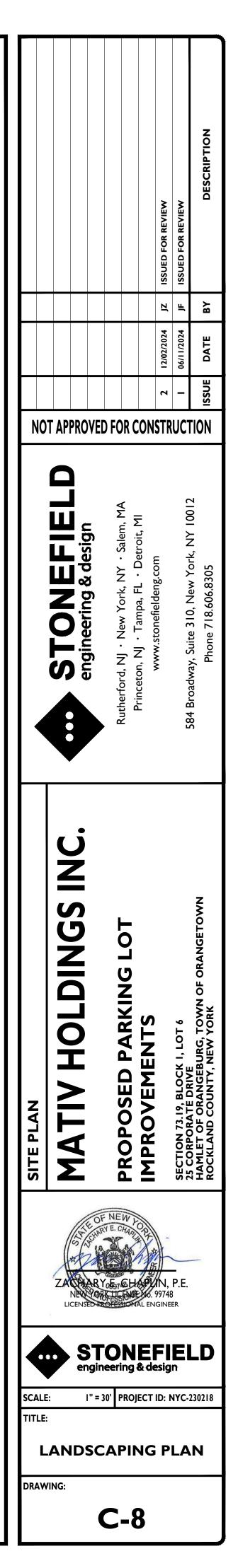
NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE PLANT LIST, THE PLAN SHALL DICTATE.

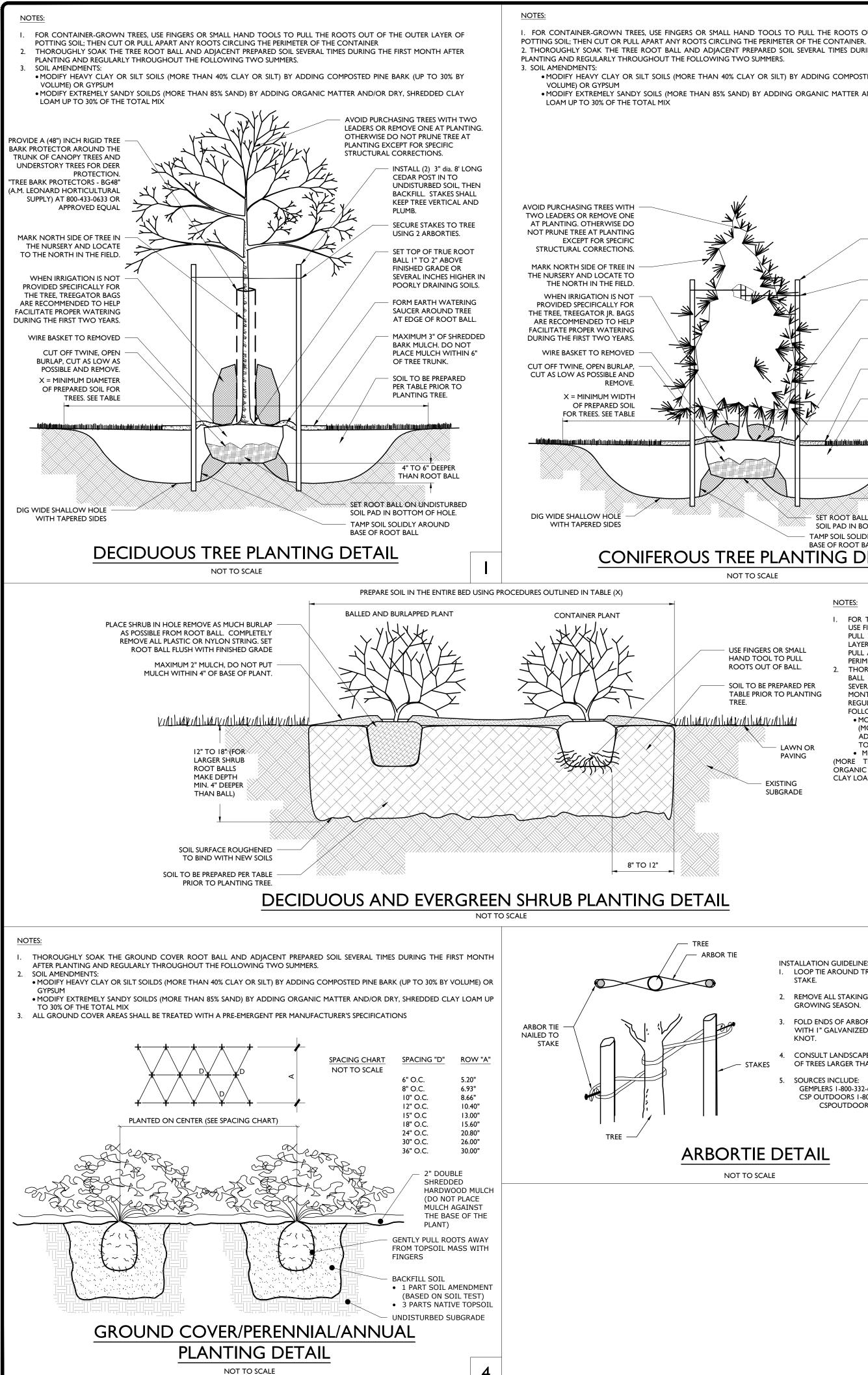


- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS

- LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
 THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED.
 THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM 3 INCH LAYER OF MULCH.
 THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO I FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
 THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS
- 5. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S DIRECTION WITHIN AREAS OF DISTURBANCE.
- 6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING AREAS.

GRAPHIC SCALE IN FEET I" = 30'





I. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF 2. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER

• MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY • MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY

INSTALL (2) 3" dia. 8' LONG CEDAR

POST IN TO UNDISTURBED SOIL.

THEN BACKFILL. STAKES SHALL

KEEP TREE VERTICAL AND PLUMB

SECURE STAKES TO TREE USING

2 ARBORTIES.

GENERAL LANDSCAPING NOTES

- I. THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THESE I. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004) OR LATEST SPECIFICATIONS, APPROVED OR FINAL DRAWINGS, AND INSTRUCTIONS PROVIDED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIALS, OR OWNER/OWNER'S REPRESENTATIVE. ALL WORK COMPLETED AND MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE INTENTION OF THE SPECIFICATIONS, DRAWINGS, AND INSTRUCTIONS AND EXECUTED WITH THE STANDARD LEVEL OF CARE FOR THE LANDSCAPE INDUSTRY. WORK MUST BE CARRIED OUT ONLY DURING WEATHER CONDITIONS FAVORABLE TO LANDSCAPE CONSTRUCTION AND TO
- THE HEALTH AND WELFARE OF PLANTS. THE SUITABILITY OF SUCH WEATHER CONDITIONS SHALL BE DETERMINED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL 3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, BEFORE ORDERING OR PURCHASING MATERIALS, TO PROVIDE SAMPLES OF THOSE MATERIALS TO THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL FOR APPROVAL,
- IF SO REQUESTED. 4. IF SAMPLES ARE REQUESTED, THE LANDSCAPE CONTRACTOR IS TO SUBMIT CERTIFICATION TAGS FROM TREES, SHRUBS AND SEED VERIFYING TYPE AND PURITY.
- 5. UNLESS OTHERWISE AUTHORIZED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL, THE LANDSCAPE CONTRACTOR SHALL PROVIDE NOTICE AT LEAST FORTY-EIGHT HOURS (48 HRS.) IN ADVANCE OF THE ANTICIPATED DELIVERY DATE OF ANY PLANT MATERIALS TO THE PROJECT SITE. A LEGIBLE COPY OF THE INVOICE, SHOWING VARIETIES AND SIZES OF MATERIALS INCLUDED FOR EACH SHIPMENT SHALL BE FURNISHED TO THE PROJECT LANDSCAPE
- DESIGNER. OR GOVERNING MUNICIPAL OFFICIAL 6. THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY PLACE.

PROTECTION OF EXISTING VEGETATION NOTES

- BEFORE COMMENCING WORK, ALL EXISTING VEGETATION WHICH COULD BE IMPACTED AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES MUST BE PROTECTED FROM DAMAGE BY THE INSTALLATION OF TREE PROTECTION FENCING. FENCING SHALL BE LOCATED AT THE DRIP-LINE OR LIMIT OF DISTURBANCE AS DEPICTED WITHIN THE APPROVED OR FINAL PLAN SET, ESTABLISHING THE TREE PROTECTION ZONE. FENCE INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE PROTECTION FENCE DETAIL." NO WORK MAY BEGIN UNTIL THIS REQUIREMENT IS FULFILLED. THE FENCING SHALL BE INSPECTED REGULARLY BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED
- IN ORDER TO AVOID DAMAGE TO ROOTS, BARK OR LOWER BRANCHES, NO VEHICLE, EQUIPMENT, DEBRIS, OR OTHER MATERIALS SHALL BE DRIVEN, PARKED OR PLACED WITHIN THE TREE PROTECTION ZONE. ALL ON-SITE CONTRACTORS SHALL USE ANY AND ALL PRECAUTIONARY MEASURES WHEN PERFORMING WORK AROUND TREES, WALKS, PAVEMENTS, UTILITIES, AND ANY OTHER FEATURES EITHER EXISTING OR PREVIOUSLY INSTALLED UNDER THIS CONTRACT. 3. IN RARE INSTANCES WHERE EXCAVATING, FILL, OR GRADING IS REQUIRED WITHIN THE DRIP-LINE OF TREES TO REMAIN, THE
- WORK SHALL BE PERFORMED AS FOLLOWS: • TRENCHING: WHEN TRENCHING OCCURS AROUND TREES TO REMAIN, THE TREE ROOTS SHALL NOT BE CUT, BUT THE TRENCH SHALL BE TUNNELED UNDER OR AROUND THE ROOTS BY CAREFUL HAND DIGGING AND WITHOUT INJURY TO
- THE ROOTS. NO ROOTS, LIMBS, OR WOODS ARE TO HAVE ANY PAINT OR MATERIAL APPLIED TO ANY SURFACE. RAISING GRADES' WHEN THE GRADE AT AN EXISTING TREE IS BELOW THE NEW FINISHED GRADE, AND FILL NOT EXCEEDING 6 INCHES (6") IS REQUIRED, CLEAN, WASHED GRAVEL FROM ONE TO TWO INCHES (1" - 2") IN SIZE SHALL BE PLACED DIRECTLY AROUND THE TREE TRUNK. THE GRAVEL SHALL EXTEND OUT FROM THE TRUNK ON ALL SIDES A MINIMUM OF 18 INCHES (18") AND FINISH APPROXIMATELY TWO INCHES (2") ABOVE THE FINISH GRADE AT TREE. INSTALL GRAVEL BEFORE ANY EARTH FILL IS PLACED. NEW EARTH FILL SHALL NOT BE LEFT IN CONTACT WITH THE TRUNK OF ANY TREE REQUIRING FILL. WHERE FILL EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID TREE WELL SHALL BE CONSTRUCTED. IF APPLICABLE, TREE WELL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE WELL DETAIL."
- LOWERING GRADES: EXISTING TREES LOCATED IN AREAS WHERE THE NEW FINISHED GRADE IS TO BE LOWERED, SHALL HAVE RE-GRADING WORK DONE BY HAND TO THE INDICATED ELEVATION. NO GREATER THAN SIX INCHES (6"). ROOTS SHALL BE CUT CLEANLY THREE INCHES (3") BELOW FINISHED GRADE UNDER THE DIRECTION OF A LICENSED ARBORIST WHERE CUT EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID RETAINING WALL SHALL BE CONSTRUCTED. IF APPLICABLE THE RETAINING WALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE RETAINING WALL DETAIL."

SOIL PREPARATION AND MULCH NOTES:

- I. LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIFIED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE TO NOTIFICATION OF RESULTS
- 2. BASED ON SOIL TEST RESULTS, ADJUST THE RATES OF LIME AND FERTILIZER THAT SHALL BE MIXED INTO THE TOP SIX INCHES (6") OF TOPSOIL. THE LIME AND FERTILIZER RATES PROVIDED WITHIN THE "SEED SPECIFICATION" OR "SOD SPECIFICATION" IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. IF ADDITIONAL AMENDMENTS ARE NECESSARY, ADJUST THE TOPSOIL AS FOLLOWS
- MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM. • MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
- TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMING CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL OBTAINED FROM A WELL-DRAINED ARABLE SITE, FREE FROM ALL CLAY, LUMPS, COARSE SANDS, STONES, PLANTS, ROOTS, STICKS, AND OTHER FOREIGN MATERIAL GREATER THAN ONE INCH (1"). 4. TOPSOIL SHALL HAVE A PH RANGE OF 5.0-7.0 AND SHALL NOT CONTAIN LESS THAN 6% ORGANIC MATTER BY WEIGHT
- 5. OBTAIN TOPSOIL ONLY FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT THE PROJECT SITE 5. CONTRACTOR SHALL PROVIDE A SIX INCH (6") DEEP LAYER OF TOPSOIL IN ALL PLANTING AREAS. TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. THE SPREADING OF
- TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN SOIL CONDITIONS. UNLESS OTHERWISE NOTED IN THE CONTRACT, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBED AREA OF THE SITE.
- LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE SUB-GRADE ELEVATION MEETS THE FINISHED GRADE ELEVATION (LESS REOUIRED TOPSOIL). IN ACCORDANCE WITH THE APPROVED OR FINAL GRADING PLAN 9. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THE APPROVED OR FINAL CONSTRUCTION SET UNLESS OTHERWISE DIRECTED BY THE
- PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SURFACE AND SUBSURFACE PLANT BED DRAINAGE PRIOR TO THE INSTALLATION OF PLANTINGS. IF POOR DRAINAGE CONDITIONS EXIST, CORRECTIVE ACTION SHALL BE TAKEN PRIOR TO INSTALLATION. ALL PLANTING AND LAWN AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW A FREE FLOW OF SURFACE
- WATER II. DOUBLE SHREDDED HARDWOOD MULCH OR APPROVED EQUAL SHALL BE USED AS A THREE INCH (3") TOP DRESSING IN ALL SHRUB PLANTING BEDS AND AROUND ALL TREES PLANTED BY LANDSCAPE CONTRACTOR, GROUND COVER, PERENNIAL, AND ANNUAL PLANTING BEDS SHALL BE MULCHED WITH A TWO INCH (2") TOP DRESSING. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO AVOID CONTACT WITH TRUNK OR PLANT STEM. MULCH SHALL BE OF SUFFICIENT CHARACTER AS NOT TO BE EASILY DISPLACED BY WIND OR WATER RUNOFF
- 12. WHENEVER POSSIBLE, THE SOIL PREPARATION AREA SHALL BE CONNECTED FROM PLANTING TO PLANTING. 13. Soil shall be loosened with a backhoe or other large coarse-tiling eouipment unless the soil is frozen or EXCESSIVELY WET. TILING THAT PRODUCES LARGE, COARSE CHUNKS OF SOIL IS PREFERABLE TO TILING THAT RESULTS IN FINE GRAINS UNIFORM IN TEXTURE. AFTER THE AREA IS LOOSENED IT SHALL NOT BE DRIVEN OVER BY ANY VEHICLE.
- 14. APPLY PRE-EMERGENT WEED CONTROL TO ALL PLANT BEDS PRIOR TO MULCHING. ENSURE COMPATIBILITY BETWEEN PRODUCT AND PLANT MATERIAL

15. ALL PLANTING SOIL SHALL BE AMENDED WITH THE FOLLOWING

- MYCRO® TREE SAVER A DRY GRANULAR MYCORRHIZAL FUNGI INOCULANT THAT IS MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IT CONTAINS SPORES OF BOTH ECTOMYCORRHIZAL AND VA MYCORRHIZAL FUNGI (VAM), BENEFICIAL RHIZOSPHERE BACTERIA. TERRA-SORB SUPERABSORBENT HYDROGEL TO REDUCE WATER LEACHING. AND SELECTED ORGANIC MICROBIAL NUTRIENT
- DIRECTIONS FOR USE: USE 3-OZ PER EACH FOOT DIAMETER OF THE ROOT BALL, OR 3-OZ PER INCH CALIPER. MIX INTO THE BACKFILL WHEN TRANSPLANTING TREES AND SHRUBS. MIX PRODUCT IN A RING-SHAPED VOLUME OF SOIL AROUND THE UPPER PORTION OF THE ROOT BALL, EXTENDING FROM THE SOIL SURFACE TO A DEPTH OF ABOUT 8 INCHES, AND EXTENDING OUT FROM THE ROOT BALL ABOUT 8 INCHES INTO THE BACKFILL. APPLY WATER TO SOIL SATURATION.
- MYCOR® TREE SAVER® IS EFFECTIVE FOR ALL TREE AND SHRUB SPECIES EXCEPT RHODODENDRONS, AZALEAS, AND MOUNTAIN LAUREL. WHICH REOUIRE ERICOID MYCORRHIZAE. • SOIL PH: THE FUNGI IN THIS PRODUCT WERE CHOSEN BASED ON THEIR ABILITY TO SURVIVE AND COLONIZE PLANT ROOTS
- IN A PH RANGE OF 3 TO 9. • FUNGICIDES: THE USE OF CERTAIN FUNGICIDES CAN HAVE A DETRIMENTAL EFFECT ON THE INOCULATION PROGRAM. SOIL APPLICATION OF ANY FUNGICIDE IS NOT RECOMMENDED FOR TWO WEEKS AFTER APPLICATION.
- OTHER PESTICIDES: HERBICIDES AND INSECTICIDES DO NOT NORMALLY INTERFERE WITH MYCORRHIZAL FUNGAL DEVELOPMENT, BUT MAY INHIBIT THE GROWTH OF SOME TREE AND SHRUB SPECIES IF NOT USED PROPERLY.
- HEALTHY START MACRO TABS 12-8-8
- FERTILIZER TABLETS ARE PLACED IN THE UPPER 4 INCHES OF BACKFILL SOIL WHEN PLANTING TREES AND SHRUBS. • TABLETS ARE FORMULATED FOR LONG-TERM RELEASE BY SLOW BIODEGRADATION, AND LAST UP TO 2 YEARS AFTER PLANTING. TABLETS CONTAIN 12-8-8 NPK FERTILIZER, AS WELL AS A MINIMUM OF SEVEN PERCENT (7%) HUMIC ACID BY WEIGHT, MICROBIAL NUTRIENTS DERIVED FROM SEA KELP, PROTEIN BYPRODUCTS, AND YUCCA SCHIDIGERA, AND A COMPLEMENT OF BENEFICIAL RHIZOSPHERE BACTERIA. THE STANDARD 21 GRAM TABLET IS SPECIFIED HERE. DIRECTIONS FOR USE: FOR PLANTING BALLED & BURLAPPED (B&B) TREES AND SHRUBS, MEASURE THE THICKNESS OF THE TRUNK, AND USE ABOUT I TABLET (21-G) PER HALF-INCH. PLACE THE TABLETS DIRECTLY NEXT TO THE ROOT BALL, EVENLY DISTRIBUTED AROUND ITS PERIMETER, AT A DEPTH OF ABOUT 4 INCHES.

IRRIGATION DURING ESTABLISHMENT						
SIZE AT PLANTING	IRRIGATION FOR VITALITY	IRRIGATION FOR SURVIVAL				
< 2" CALIPER	DAILY FOR TWO WEEKS, EVERY OTHER DAY FOR TWO MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR TWO TO THREE MONTHS				
2"-4 CALIPER	DAILY FOR ONE MONTH, EVERY OTHER DAY FOR THREE MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR THREE TO FOUR MONTHS				
4 >" CALIPER	DAILY FOR SIX WEEKS, EVERY OTHER DAY FOR FIVE MONTHS, WEEKLY UNTIL ESTABLISHED	TWICE WEEKLY FOR FOUR TO FIV MONTHS				

I. AT EACH IRRIGATION, APPLY TWO TO THREE GALLONS PER INCH TRUNK CALIPER TO THE ROOT BALL SURFACE. APPLY IT IN A MANNER SO ALL WATER SOAKS THE ENTIRE ROOT BALL. DO NOT WATER IF ROOT BALL IS WET/SATURATED ON THE IRRIGATION DAY.

2. WHEN IRRIGATING FOR VITALITY, DELETE DAILY IRRIGATION WHEN PLANTING IN WINTER OR WHEN PLANTING IN COOL CLIMATES. ESTABLISHMENT TAKES THREE TO FOUR MONTHS PER INCH TRUNK CALIPER. NEVER APPLY IRRIGATION IF THE SOIL IS SATURATED.

3. WHEN IRRIGATION FOR SURVIVAL TREES TAKE MUCH LONGER TO ESTABLISH THAN REGULARLY IRRIGATED TREES. IRRIGATION MAY BE REQUIRED IN THE NORMAL HOT, DRY PORTIONS OF THE FOLLOWING YEAR.

SET TOP OF TRUE ROOT BALL I" TO 2" ABOVE FINISHED GRADE OR SEVERAL INCHES HIGHER IN POORLY DRAINING SOILS. FORM FARTH WATERING SAUCER AROUND TREE AT EDGE OF ROOT BALL. MAXIMUM 3" OF SHREDDED BARK MULCH. DO NOT PLACE MULCH WITHIN 6" OF TREE TRUNK. SOIL TO BE PREPARED PER TABLE PRIOR TO PLANTING TREE. 4" TO 6" DEEPER THAN ROOT BALL SET ROOT BALL ON UNDISTURBED SOIL PAD IN BOTTOM OF HOLE. TAMP SOIL SOLIDLY AROUND BASE OF ROOT BALL CONIFEROUS TREE PLANTING DETAIL NOT TO SCALE NOTES I. FOR THE CONTAINER-GROWN SHRUBS USE FINGERS OR SMALL HAND TOOL TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL: THEN CUT OR USE FINGERS OR SMAL PULL APART ANY ROOTS CIRCLING THE HAND TOOL TO PULL PERIMETER OF THE CONTAINER. ROOTS OUT OF BALL. THOROUGHLY SOAK THE SHRUB ROOT BALL AND ADJACENT PREPARED SOIL SOIL TO BE PREPARED PER SEVERAL TIMES DURING THE FIRST TABLE PRIOR TO PLANTING MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM LAWN OR MODIFY EXTREMELY SANDY SOILS PAVING (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY. SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL SUBGRADE

ARBOR TIE INSTALLATION GUIDELINES: STAKE KNOT

- SOURCES INCLUDE: GEMPLERS I-800-332-6744 or GEMPLERS.COM CSP OUTDOORS 1-800-592-6940 or
- NOT TO SCALE
- LOOP TIE AROUND TREE AND NAIL TO CEDAR REMOVE ALL STAKING AND TIES AT END OF FIRST GROWING SEASON. FOLD ENDS OF ARBORTIE BACK, SECURE TO STAKES WITH I" GALVANIZED ROOFING NAIL OR USE A
- CONSULT LANDSCAPE ARCHITECT FOR STAKING OF TREES LARGER THAN 6
- CSPOUTDOORS.COM

- **ARBORTIE DETAIL**



PLANT QUALITY AND HANDLING NOTES

DETAILS

ACE

CAF

CE

CO

REVISION AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. 2. IN ALL CASES, BOTANICAL NAMES LISTED WITHIN THE APPROVED OR FINAL PLANT LIST SHALL TAKE PRECEDENCE OVER

COMMON NAMES 3. ALL PLANTS SHALL BE OF SELECTED SPECIMEN QUALITY, EXCEPTIONALLY HEAVY, TIGHTLY KNIT, SO TRAINED OR FAVORED IN THEIR DEVELOPMENT AND APPEARANCE AS TO BE SUPERIOR IN FORM, NUMBER OF BRANCHES, COMPACTNESS AND SYMMETRY. ALL PLANTS SHALL HAVE A NORMAL HABIT OR SOUND. HEALTHY, VIGOROUS PLANTS WITH WELL DEVELOPED ROOT SYSTEM. PLANTS SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE 4. PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY. TREES WITH ABRASION OF THE BARK, SUNSCALDS, DISFIGURING KNOTS OR

FRESH CUTS OF LIMBS OVER ONE AND ONE-FOURTH INCHES (1-1/4") WHICH HAVE NOT COMPLETELY CALLOUSED SHALL BE REIECTED 5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH AND BE LEGIBLY

TAGGED WITH THE PROPER NAME AND SIZE. 6. THE ROOT SYSTEM OF EACH PLANT SHALL BE WELL PROVIDED WITH FIBROUS ROOTS. ALL PARTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF.

7. ALL PLANTS DESIGNATED BALL AND BURLAP (B&B) MUST BE MOVED WITH THE ROOT SYSTEM AS SOLID UNITS WITH BALLS OF EARTH FIRMLY WRAPPED WITH BURLAP. THE DIAMETER AND DEPTH OF THE BALLS OF EARTH MUST BE SUFFICIENT TO ENCOMPASS THE FIBROUS ROOT FEEDING SYSTEMS NECESSARY FOR THE HEALTHY DEVELOPMENT OF THE PLANT. NO PLANT SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN BADLY CRACKED OR BROKEN PREPARATORY TO OR DURING THE PROCESS OF PLANTING. THE BALLS SHALL REMAIN INTACT DURING ALL OPERATIONS. ALL PLANTS THAT CANNOT BE PLANTED AT ONCE MUST BE HEELED-IN BY SETTING IN THE GROUND AND COVERING THE BALLS WITH SOIL OR MULCH AND THEN WATERING. HEMP BURLAP AND TWINE IS PREFERABLE TO TREATED. IF TREATED BURLAP IS USED, ALL TWINE IS TO BE CUT FROM AROUND THE TRUNK AND ALL BURLAP IS TO BE REMOVED.

8. PLANTS TRANSPORTED TO THE PROJECT IN OPEN VEHICLES SHALL BE COVERED WITH TARPS OR OTHER SUITABLE COVERS securely fastened to the body of the vehicle to prevent iniury to the plants. Closed vehicles shall be ADEQUATELY VENTILATED TO PREVENT OVERHEATING OF THE PLANTS. EVIDENCE OF INADEQUATE PROTECTION FOLLOWING DIGGING, CARELESSNESS WHILE IN TRANSIT. OR IMPROPER HANDLING OR STORAGE SHALL BE CAUSE FOR REJECTION OF PLANT MATERIAL. ALL PLANTS SHALL BE KEPT MOIST, FRESH, AND PROTECTED. SUCH PROTECTION SHALL ENCOMPASS THE ENTIRE PERIOD DURING WHICH THE PLANTS ARE IN TRANSIT, BEING HANDLED, OR ARE IN TEMPORARY STORAGE. 9. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE CORRESPONDING LANDSCAPE PLAN AND PLANTING

10. LANDSCAPE CONTRACTOR SHALL MAKE BEST EFFORT TO INSTALL PLANTINGS ON THE SAME DAY AS DELIVERY. IF PLANTS ARE NOT PLANTED IMMEDIATELY ON SITE, PROPER CARE SHALL BE TAKEN TO PLACE THE PLANTINGS IN PARTIAL SHADE WHEN possible. The root ball shall be kept moist at all time and covered with moistened mulch or aged WOODCHIPS. PROPER IRRIGATION SHALL BE SUPPLIED SO AS TO NOT ALLOW THE ROOT BALL TO DRY OUT. PLANTINGS HALL BE UNTIED AND PROPER SPACING SHALL BE ALLOTTED FOR AIR CIRCULATION AND TO PREVENT DISEASE, WILTING. AND LEAF LOSS. PLANTS THAT REMAIN UNPLANTED FOR A PERIOD OF TIME GREATER THAN THREE (3) DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH AND WATERED AS REQUIRED TO PRESERVE ROOT MOISTURE. II. NO PLANT MATERIAL SHALL BE PLANTED IN MUDDY OR FROZEN SOIL.

12. PLANTS WITH INJURED ROOTS OR BRANCHES SHALL BE PRUNED PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY DISEASED OR INJURED PLANTS SHALL BE REMOVED. 13. IF ROCK OR OTHER UNDERGROUND OBSTRUCTION IS ENCOUNTERED, THE LANDSCAPE DESIGNER RESERVES THE RIGHT TO

RELOCATE OR ENLARGE PLANTING PITS OR DELETE PLANT MATERIAL FROM THE CONTRACT. 14. IF PLANTS ARE PROPOSED WITHIN SIGHT TRIANGLES, TREES SHALL BE LIMBED AND MAINTAINED TO A HEIGHT OF EIGHT FEET (8') ABOVE GRADE, AND SHRUBS, GROUND COVER, PERENNIALS, AND ANNUALS SHALL BE MAINTAINED TO A HEIGHT NOT TO EXCEED TWO FEET (2') ABOVE GRADE UNLESS OTHERWISE NOTED OR SPECIFIED BY THE GOVERNING MUNICIPALITY OR AGENCY

15. INSTALLATION SHALL OCCUR DURING THE FOLLOWING SEASONS: PLANTS (MARCH 15 - DECEMBER 15)

LAWNS (MARCH 15 - JUNE 15 OR SEPTEMBER 1 - DECEMBER 1)

16. THE FOLLOWING TREES ARE SUSCEPTIBLE TO TRANSPLANT SHOCK AND SHALL NOT BE PLANTED DURING THE FALL SEASON (STARTING SEPTEMBER 15) ABIES CONCOLOR COPNILIS VADIETIES OSTRYA VIRGINIANA

IES CONCOLOR	CORINUS VARIETIES	OSTRTA VIRGINIANA
ER BUERGERIANUM	CRATAEGUS VARIETIES	PINUS NIGRA
ER FREEMANII	CUPRESSOCYPARIS LEYLANDII	PLATANUS VARIETIES
ER RUBRUM	FAGUS VARIETIES	POPULUS VARIETIES
ER SACCHARINUM	HALESIA VARIETIES	PRUNUS VARIETIES
TULA VARIETIES	ILEX X FOSTERII	PYRUS VARIETIES
RPINUS VARIETIES	ILEX NELLIE STEVENS	QUERCUS VARIETIES (NOT Q. PALUSTRIS)
DRUS DEODARA	ILEX OPACA	SALIX WEEPING VARIETIES
LTIS VARIETIES	JUNIPERUS VIRGINIANA	SORBUS VARIETIES
RCIDIPHYLLUM VARIETIES	KOELREUTERIA PANICULATA	TAXODIUM VARIETIES
RCIS CANADENSIS	LIQUIDAMBAR VARIETIES	TAXUX B REPANDENS
ORNUS VARIETIES	LIRIODENDRON VARIETIES	TILIA TOMENTOSA VARIETIES
ATAEGUS VARIETIES	MALUS IN LEAF	ULMUS PARVIFOLIA VARIETIES
	NYSSA SYLVATICA	ZELKOVA VARIETIES

ARIETIES 17. IF A PROPOSED PLANT IS UNATTAINABLE OR ON THE FALL DIGGING HAZARD LIST, AN EQUIVALENT SPECIES OF THE SAME SIZE MAY BE REQUESTED FOR SUBSTITUTION OF THE ORIGINAL PLANT. ALL SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL PRIOR TO ORDERING AND INSTALLATION.

18. DURING THE COURSE OF CONSTRUCTION/PLANT INSTALLATION, EXCESS AND WASTE MATERIALS SHALL BE CONTINUOUSLY AND PROMPTLY REMOVED AT THE END OF EACH WORK DAY. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF AND ALL PAVED AREAS SHALL BE CLEANED.

19. THE LANDSCAPE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH AND EXCESS SOIL AT HIS EXPENSE TO AN OFF-SITE LOCATION AS APPROVED BY THE LOCAL MUNICIPALITY.

20. A 90-DAY MAINTENANCE PERIOD SHALL BEGIN IMMEDIATELY AFTER ALL PLANTS HAVE BEEN SATISFACTORILY INSTALLED. 21. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR other means, repairing and reshaping water rings or saucers, maintaining stakes and guys if originali REQUIRED, WATERING WHEN NEEDED OR DIRECTED, WEEDING, PRUNING, SPRAYING, FERTILIZING, MOWING THE LAWN, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.

2. MOW ALL GRASS AREAS AT REGULAR INTERVALS TO KEEP THE GRASS HEIGHT FROM EXCEEDING THREE INCHES (3"). MOWING SHALL BE PERFORMED ONLY WHEN GRASS IS DRY. MOWER BLADE SHALL BE SET TO REMOVE NO MORE THAN ONE THIRD (1/3) OF THE GRASS LENGTH. WHEN THE AMOUNT OF GRASS IS HEAVY, IT SHALL BE REMOVED TO PREVENT DESTRUCTION OF THE UNDERLYING TURF. MOW GRASS AREAS IN SUCH A MANNER AS TO PREVENT CLIPPINGS FROM BLOWING ON PAVED AREAS, AND SIDEWALKS. CLEANUP AFTER MOWING SHALL INCLUDE SWEEPING OR BLOWING OF PAVED AREAS AND SIDEWALKS TO CLEAR THEM FROM MOWING DEBRIS.

23. GRASSED AREAS DAMAGED DURING THE PROCESS OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL RESTORE THE DISTURBED AREAS TO A CONDITION SATISFACTORY TO THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE. THIS MAY INCLUDE FILLING TO GRADE, FERTILIZING, SEEDING, AND MULCHING

24. SHOULD THE OWNER REQUIRE MAINTENANCE BEYOND THE STANDARD 90-DAY MAINTENANCE PERIOD, A SEPARATE CONTRACT SHALL BE ESTABLISHED. 25. LANDSCAPE CONTRACTOR SHALL WATER NEW PLANTINGS FROM TIME OF INSTALL AND THROUGHOUT REQUIRED 90-DAY

MAINTENANCE PERIOD UNTIL PLANTS ARE ESTABLISHED. IF ON-SITE WATER IS NOT AVAILABLE AT THE PROJECT LOCATION, THE LANDSCAPE CONTRACTOR SHALL FURNISH IT BY MEANS OR A WATERING TRUCK OR OTHER ACCEPTABLE MANNER. 26. THE OUANTITY OF WATER APPLIED AT ONE TIME SHALL BE SUFFICIENT TO PENETRATE THE SOIL TO A MINIMUM OF EIGHT INCHES (8") IN SHRUB BEDS AND SIX INCHES (6") IN TURF AREAS AT A RATE WHICH WILL PREVENT SATURATION OF THE SOIL. 27. IF AN AUTOMATIC IRRIGATION SYSTEM HAS BEEN INSTALLED, IT CAN BE USED FOR WATERING PLANT MATERIAL. HOWEVER, FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY OF PLANT HEALTH AND ESTABLISHMENT.

PLANT MATERIAL GUARANTEE NOTES

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR (1 YR.) FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE

.. THE LANDSCAPE CONTRACTOR SHALL REMOVE AND REPLACE DYING, DEAD, OR DEFECTIVE PLANT MATERIAL AT HIS EXPENSE. THE LANDSCAPE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS COMPANY'S OPERATIONS. 3. ALL REPLACEMENT PLANTS SHALL BE OF THE SAME SPECIES AND SIZE AS SPECIFIED ON THE APPROVED OR FINAL PLANT LIST. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, VANDALISM, PHYSICAL DAMAGE BY ANIMALS, VEHICLES, ETC., AND LOSSES DUE TO CURTAILMENT OF WATER BY LOCAL AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.

4. THE CONTRACTOR SHALL INSTRUCT THE OWNER AS TO THE PROPER CARE AND MAINTENANCE OF ALL PLANTINGS.

LAWN (SEED OR SOD) NOTES:

. SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. SOD SHALL BE STRONGLY ROOTED, UNIFORM IN THICKNESS, AND FREE OF WEEDS, DISEASE, AND PESTS. . SEED OR SOD SHALL BE PURCHASED FROM A RECOGNIZED DISTRIBUTOR AND SHALL BE COMPOSED OF THE MIX OR BLEND

WITHIN THE PROVIDED "SEED SPECIFICATION" OR "SOD SPECIFICATION." 3. REFERENCE LANDSCAPE PLAN FOR AREAS TO BE SEEDED OR LAID WITH SOD

4. SEEDING SHALL NOT BE PERFORMED IN WINDY WEATHER. IF THE SEASON OF THE PROJECT COMPLETION PROHIBITS PERMANENT STABILIZATION, TEMPORARY STABILIZATION SHALL BE PROVIDED IN ACCORDANCE WITH THE "TEMPORARY SEEDING SPECIFICATION.'

5. PROTECT NEW LAWN AREAS AGAINST TRESPASSING WHILE THE SEED IS GERMINATING. FURNISH AND INSTALL FENCES, SIGNS, BARRIERS OR ANY OTHER NECESSARY TEMPORARY PROTECTIVE DEVICES. DAMAGE RESULTING FROM TRESPASS, EROSION, WASHOUT, SETTLEMENT OR OTHER CAUSES SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR AT HIS EXPENSE. REMOVE ALL FENCES, SIGNS, BARRIERS OR OTHER TEMPORARY PROTECTIVE DEVICES ONCE LAWN HAS BEEN ESTABLISHED.

