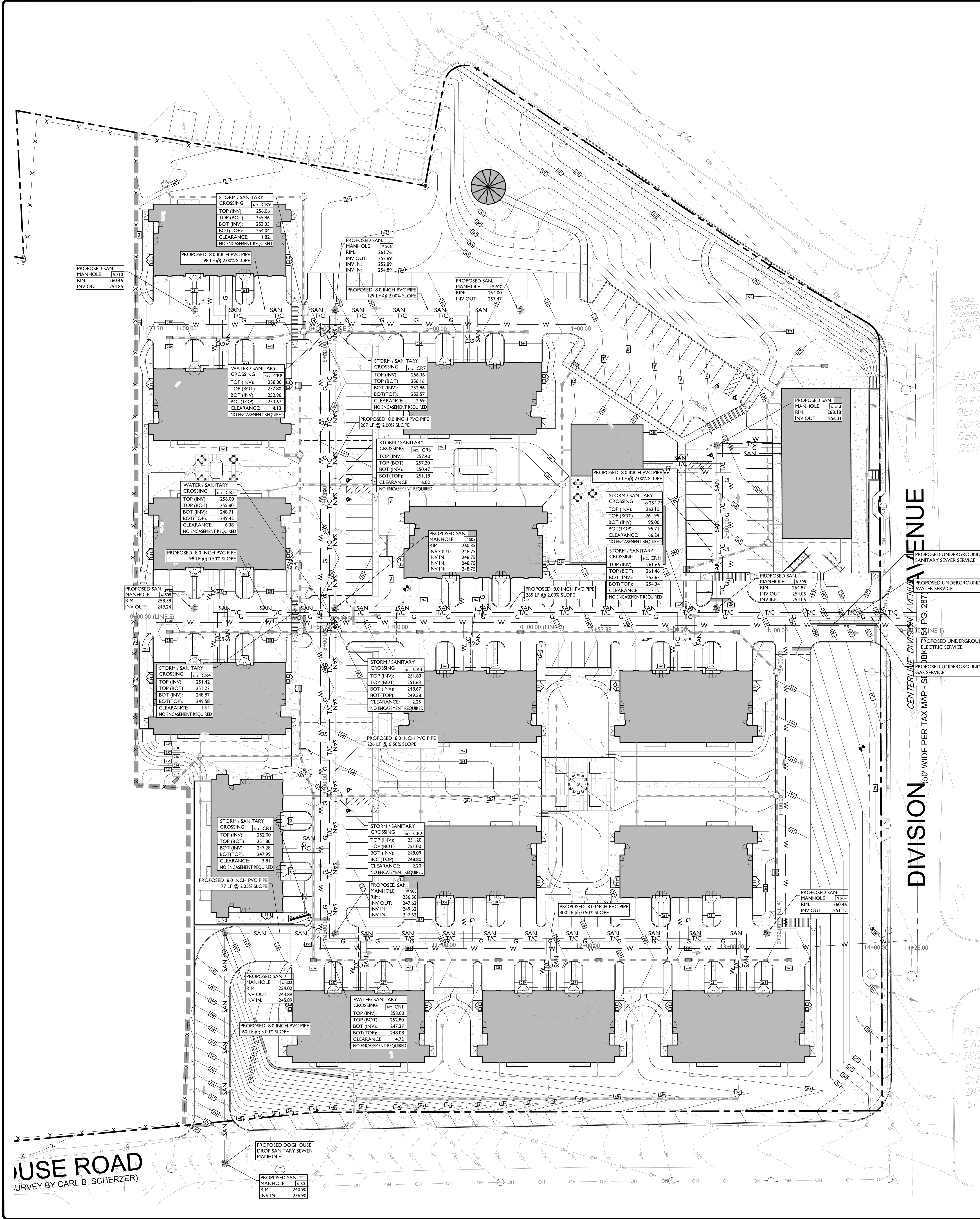


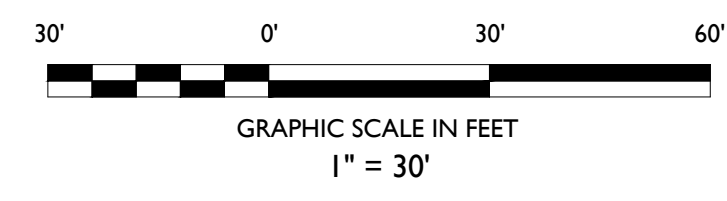


SYMBOL	DESCRIPTION
---	PROPERTY LINE
---	SAN PROPOSED SANITARY LATERAL
---	W PROPOSED DOMESTIC WATER SERVICE
---	ET/C PROPOSED ELECTRICAL/DATA CONDUITS
---	T/C PROPOSED DATA CONDUITS
---	E PROPOSED ELECTRIC CONDUITS
---	OH PROPOSED OVERHEAD WIRES
---	G PROPOSED GAS LINE
⊗	PROPOSED VALVE
⊥	PROPOSED WATER TEE / BEND
⊥	PROPOSED FIRE HYDRANT
⊥	PROPOSED FIRE DIRECT CONNECTION (FDC)
⊥	PROPOSED SANITARY MANHOLE / CLEANOUT
⊥	PROPOSED UTILITY POLE
⊥	PROPOSED TRANSFORMER ON CONCRETE PAD WITH BOLLARDS

APPLICANT SHALL INSTALL KNOX BOXES ON SITE. LOCATION TO BE COORDINATED WITH FIRE OFFICIAL.

DRAINAGE AND UTILITY NOTES

- THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION AND UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC IMMEDIATELY IN WRITING.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN IN OPERATION ALL UTILITIES NOT DESIGNATED TO BE REMOVED.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ANY EXISTING UTILITY IDENTIFIED TO REMAIN WITHIN THE LIMITS OF THE PROPOSED WORK DURING CONSTRUCTION.
- A MINIMUM HORIZONTAL SEPARATION OF 10 FEET IS REQUIRED BETWEEN ANY SANITARY SEWER SERVICE AND ANY WATER LINES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASUREMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC.
- ALL WATER LINES SHALL BE VERTICALLY SEPARATED ABOVE SANITARY SEWER LINES BY A MINIMUM DISTANCE OF 18 INCHES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASUREMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC.
- THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR WATER AND SANITARY SEWER CONNECTION IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC IN WRITING.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRIC AND TELECOMMUNICATION CONNECTIONS WITH THE APPROPRIATE GOVERNING AUTHORITY.
- CONTRACTOR SHALL START CONSTRUCTION OF ANY GRAVITY SEWER AT THE LOWEST INVERT AND WORK UP GRADIENT.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD SET OF PLANS REFLECTING THE LOCATION OF EXISTING UTILITIES THAT HAVE BEEN CAPPED, ABANDONED, OR RELOCATED BASED ON THE DEMOLITION/REMOVAL ACTIVITIES REQUIRED IN THIS PLAN SET. THIS DOCUMENT SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DEPICTED WITHIN THE PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.



USE ROAD
(SURVEY BY CARL B. SCHERZER)

SHADE AREA INDICATES PORTION OF SUBJECT PROPERTY SUBJECT TO EASEMENT TO JERSEY CENTRAL POWER & LIGHT COMPANY, DBK.1862, PG. 330, SCH. B-II, NO.15 - SHOWN BY SCALE.

PERPETUAL EASEMENT AND RIGHT-OF-WAY DEDICATION TO THE COUNTY OF MORRIS DBK. 3151 PG.288 SCH. B-II NO.17

DIVISION 150' WIDE PER TAX MAP - S

PERPETUAL EASEMENT AND RIGHT-OF-WAY DEDICATION TO THE COUNTY OF MORRIS DBK. 3151 PG.288 SCH. B-II NO.17

4,343 SQ. FT. 0.0997 AC. - AREA OF DEEDICATION

PRELIMINARY & FINAL MAJOR SITE PLAN

ENCLAVE AT MILLINGTON

PROPOSED MIXED-USE MULTI-FAMILY AND COMMERCIAL DEVELOPMENT

CLU & CLU
CHARLES D. OLIVO, P.E.
NEW JERSEY LICENSE NO. 46719
LICENSED PROFESSIONAL ENGINEER

SCALE: 1" = 30' PROJECT ID: T-1798

TITLE: UTILITY PLAN

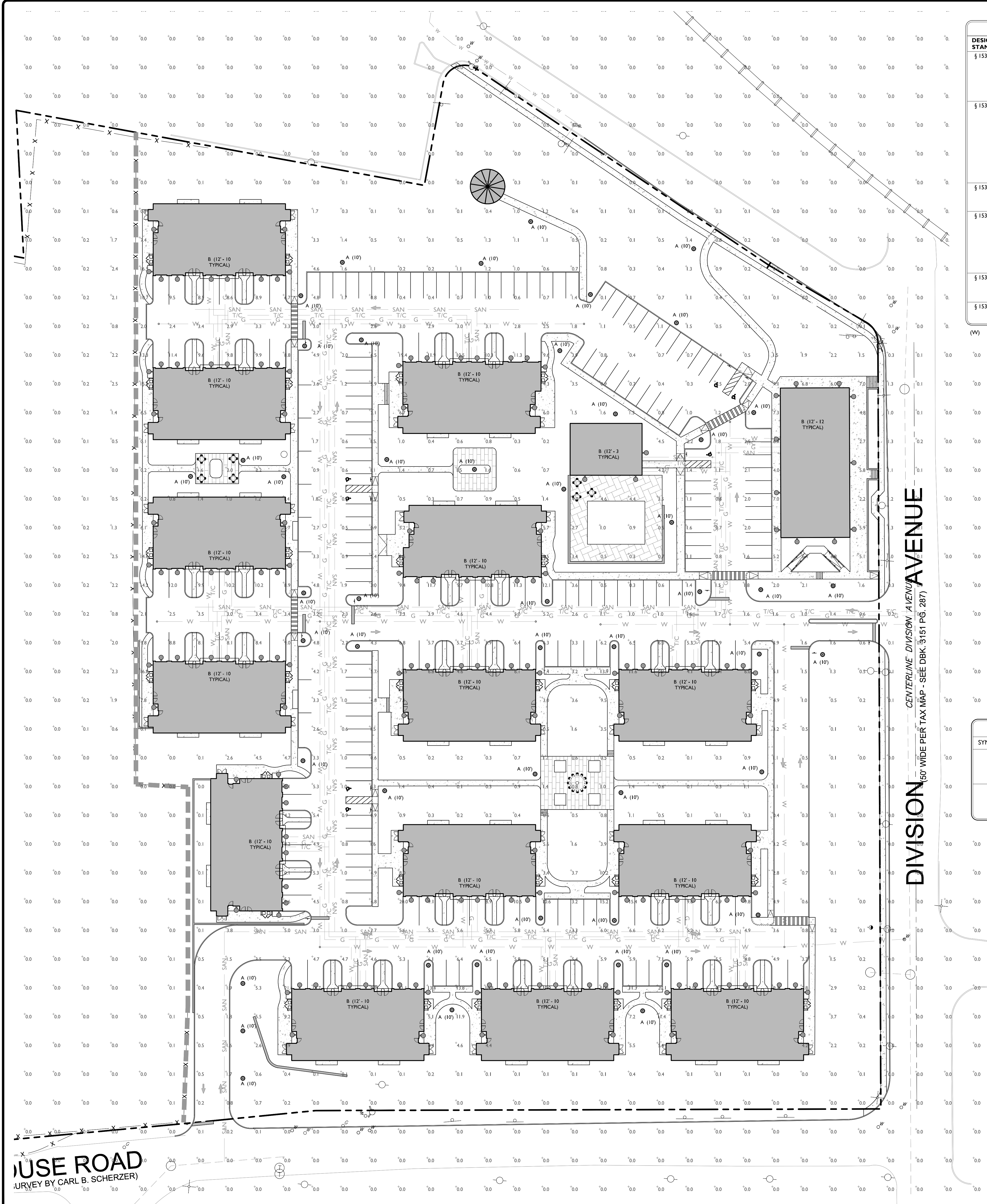
DRAWING: C-7

STONEFIELD engineering & design

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Princeton, NJ • Tampa, FL • Detroit, MI
www.stonefielddesign.com

Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 Fax 201.340.4472

FOR MUNICIPAL SUBMISSION	DATE	BY	DESCRIPTION
01	10/25/2019	NA	ISSUE



LIGHTING REQUIREMENTS		
DESIGN STANDARDS	REQUIRED	PROPOSED
§ 153.2 a	STREET LIGHTING SHALL BE OF A STYLE AND NUMBER SPECIFIED BY THE APPROVING AUTHORITY AND MAY BE REQUIRED AT ALL ROADWAY INTERSECTIONS, CUL-DE-SACS, ROADWAY CURVES HAVING A DEFLECTION ANGLE OF FORTY-FIVE (45) DEGREES OR GREATER, AND ELSEWHERE AS DEEMED NECESSARY FOR SAFETY REASONS. ALL STREET LIGHTS SHALL HAVE A LUMEN RATING OF FOUR THOUSAND (4,000).	COMPLIES
§ 153.2 b	ALL PARKING AREAS, DRIVEWAYS, WALKWAYS, BUILDING ENTRANCES, LOADING AREAS AND SIMILAR LOCATIONS SERVING MULTIFAMILY RESIDENTIAL AND ALL NONRESIDENTIAL USES SHALL BE ADEQUATELY ILLUMINATED FOR SAFETY AND SECURITY PURPOSES. THE LIGHTING OF INTERSECTIONS, DRIVEWAYS AND SIMILAR LOCATIONS SHALL PROVIDE AN AVERAGE ILLUMINATION OF 0.4 FOOTCANDLES. WHILE ALL PARKING AREAS SHALL PROVIDE AN AVERAGE ILLUMINATION OF 0.4 FOOTCANDLES, ILLUMINATION LEVELS OF OTHER AREAS TO BE LIGHTED SHALL BE DETERMINED BY THE APPROVING AUTHORITY AFTER DUE CONSIDERATION OF THE SUBJECT APPLICATION.	DRIVEWAYS: AVERAGE 0.95 FC PARKING AREAS: AVERAGE 1.96 FC
§ 153.2 c	LIGHTING SERVING MULTIFAMILY RESIDENTIAL USES SHALL BE PERMITTED THROUGHOUT THE NIGHT, PROVIDING SAID LIGHTING DOES NOT EXCEED AN AVERAGE ILLUMINATION OF 0.2 FOOTCANDLES.	1.96 FC (W)
§ 153.2 d	WALL-MOUNTED LIGHT FIXTURES SHALL BE PREFERRED OVER POLE-MOUNTED FIXTURES PROVIDED THE REQUIRED ILLUMINATION LEVELS CAN BE MET. WHEN POLE-MOUNTED FIXTURES ARE REQUIRED WITHIN PARKING AREAS, SAID POLES SHALL BE LOCATED WITHIN LANDSCAPED ISLANDS; NO SUCH POLE SHALL BE PERMITTED TO BE LOCATED DIRECTLY WITHIN THE PAVED PORTION OF A PARKING LOT. ALL POLE-MOUNTED FIXTURES SHALL BE SET BACK AT LEAST TWO (2) FEET FROM THE PAVED SURFACE OF THE PARKING AREA.	COMPLIES
§ 153.2 e	NO LIGHT FIXTURE SHALL PROVIDE A MOUNTING HEIGHT IN EXCESS OF FIFTY (50) FEET, AS MEASURED FROM THE GROUND TO TOP OF THE LIGHT FIXTURE, OR THE HEIGHT OF THE PRINCIPAL BUILDING, WHICHEVER IS LESS.	12 FT
§ 153.2 f	THE FIXTURE STYLE OF ANY LIGHTING SHALL BE LIMITED TO TRADITIONALLY-STYLED LANTERN FIXTURES UNLESS OTHERWISE SPECIFIED BY THE APPROVING AUTHORITY.	COMPLIES

(W) WAIVER

SYMBOL

A (XX')

XX'

●

●

DESCRIPTION

PROPOSED LIGHTING FIXTURE (MOUNTING HEIGHT)

PROPOSED LIGHTING INTENSITY (FOOTCANDLES)

PROPOSED AREA LIGHT

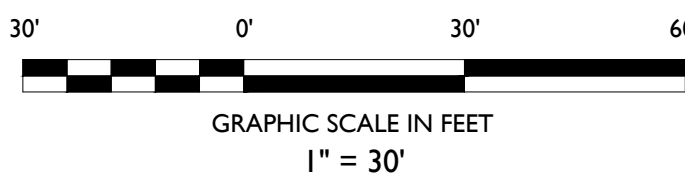
PROPOSED BUILDING MOUNTED LIGHT

GENERAL LIGHTING NOTES

- THE LIGHTING LEVELS DEPICTED WITHIN THE PLAN SET ARE CALCULATED UTILIZING DATA OBTAINED FROM THE LISTED MANUFACTURER. ACTUAL ILLUMINATION LEVELS AND PERFORMANCE OF ANY PROPOSED LIGHTING FIXTURE MAY VARY DUE TO UNCONTROLLABLE VARIABLES SUCH AS WEATHER, VOLTAGE SUPPLY, LAMP TOLERANCE, EQUIPMENT SERVICE LIFE AND OTHER VARIABLE FIELD CONDITIONS.
- WHERE APPLICABLE, THE EXISTING LIGHT LEVELS DEPICTED WITHIN THE PLAN SET SHALL BE CONSIDERED APPROXIMATE. THE EXISTING LIGHT LEVELS ARE BASED ON FIELD OBSERVATIONS AND THE MANUFACTURER'S DATA OF THE ASSUMED OR MOST SIMILAR LIGHTING FIXTURE MODEL.
- UNLESS NOTED ELSEWHERE WITHIN THIS PLAN SET, THE LIGHT LOSS FACTORS USED IN THE LIGHTING ANALYSIS ARE AS FOLLOWS:
 - LIGHT EMITTING DIODES (LED): 0.90
 - HIGH PRESSURE SODIUM: 0.72
 - METAL HALIDE: 0.72
- THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC IN WRITING, PRIOR TO THE START OF CONSTRUCTION, OF ANY PROPOSED LIGHTING LOCATIONS THAT CONFLICT WITH EXISTING/ PROPOSED DRAINAGE UTILITY, OR OTHER IMPROVEMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO PREPARE A WIRING PLAN AND PROVIDE ELECTRIC SERVICE TO ALL PROPOSED LIGHTING FIXTURES. THE CONTRACTOR IS REQUIRED TO PREPARE AN AS-BUILT PLAN OF WIRING AND PROVIDE COPIES TO THE OWNER AND STONEFIELD ENGINEERING & DESIGN, LLC.

PROPOSED LUMINAIRE SCHEDULE

SYMBOL	LABEL	QUANTITY	MOUNTING HEIGHT	LIGHTING MODEL	DISTRIBUTION	LLF	MANUFACTURER	IES FILE
●	A	49	10 FEET	SEVILLE SERIES LED AREA LIGHTS - 46W, 4500K	TYPE V	0.90	STERNBERG LIGHTING	S440-XRLED-9L45T5 -MDL14-SV1.ies
●	B	178	12 FEET	OMEGA SERIES LED BUILDING LIGHTS - 61W, 4000K	TYPE IV	0.90	STERNBERG LIGHTING	I527LED-12L40T4 -MDL018-FG.ies



USE ROAD
SURVEY BY CARL B. SCHERZER

DIVISION AVENUE
60' WIDE PER TAX MAP - SEE DBK 3151 PG 287

FOR MUNICIPAL SUBMISSION		DESCRIPTION	
01	10/25/2019	DATE	BY
NOT APPROVED FOR CONSTRUCTION			

STONEFIELD
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PRELIMINARY & FINAL MAJOR SITE PLAN
ENCLAVE AT MILLINGTON

PROPOSED MIXED-USE MULTI-FAMILY
AND COMMERCIAL DEVELOPMENT

BLUCK 1301 LOT 1 & BLOCK 10106, LOT 7.01
DIVISION AVENUE
TOWNSHIP OF LONG HILL
MORRIS COUNTY, NEW JERSEY

CHARLES D. OLIVO, P.E.
NEW JERSEY LICENSE No. 46719
LICENSED PROFESSIONAL ENGINEER

STONEFIELD
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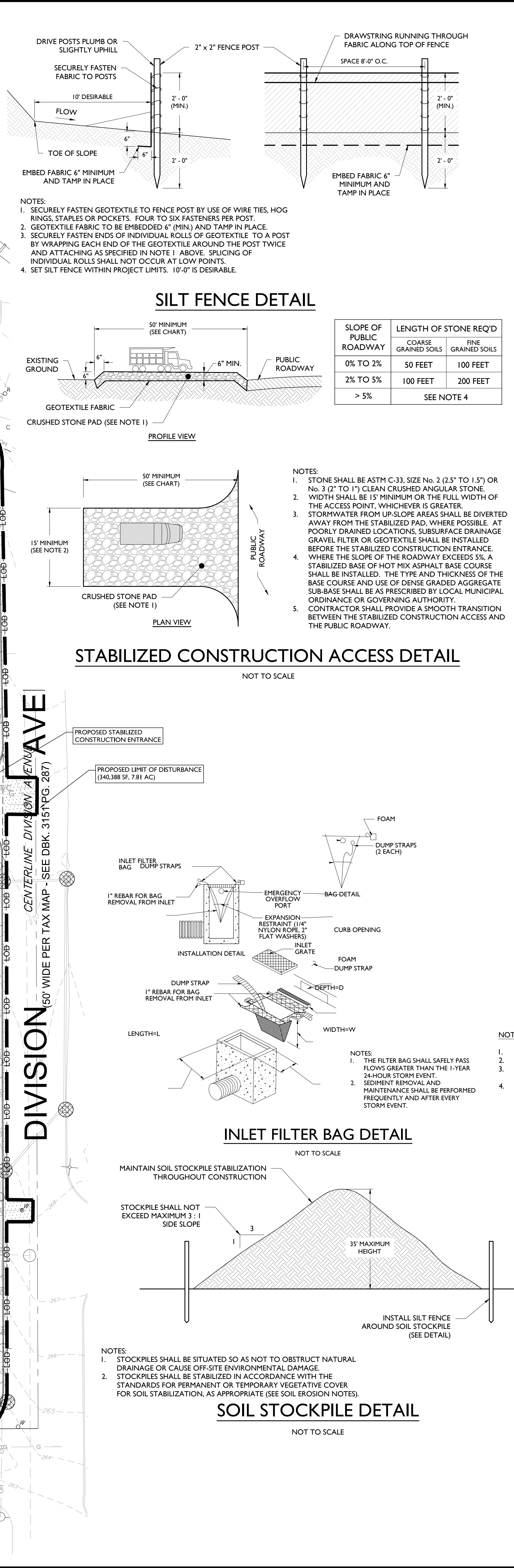
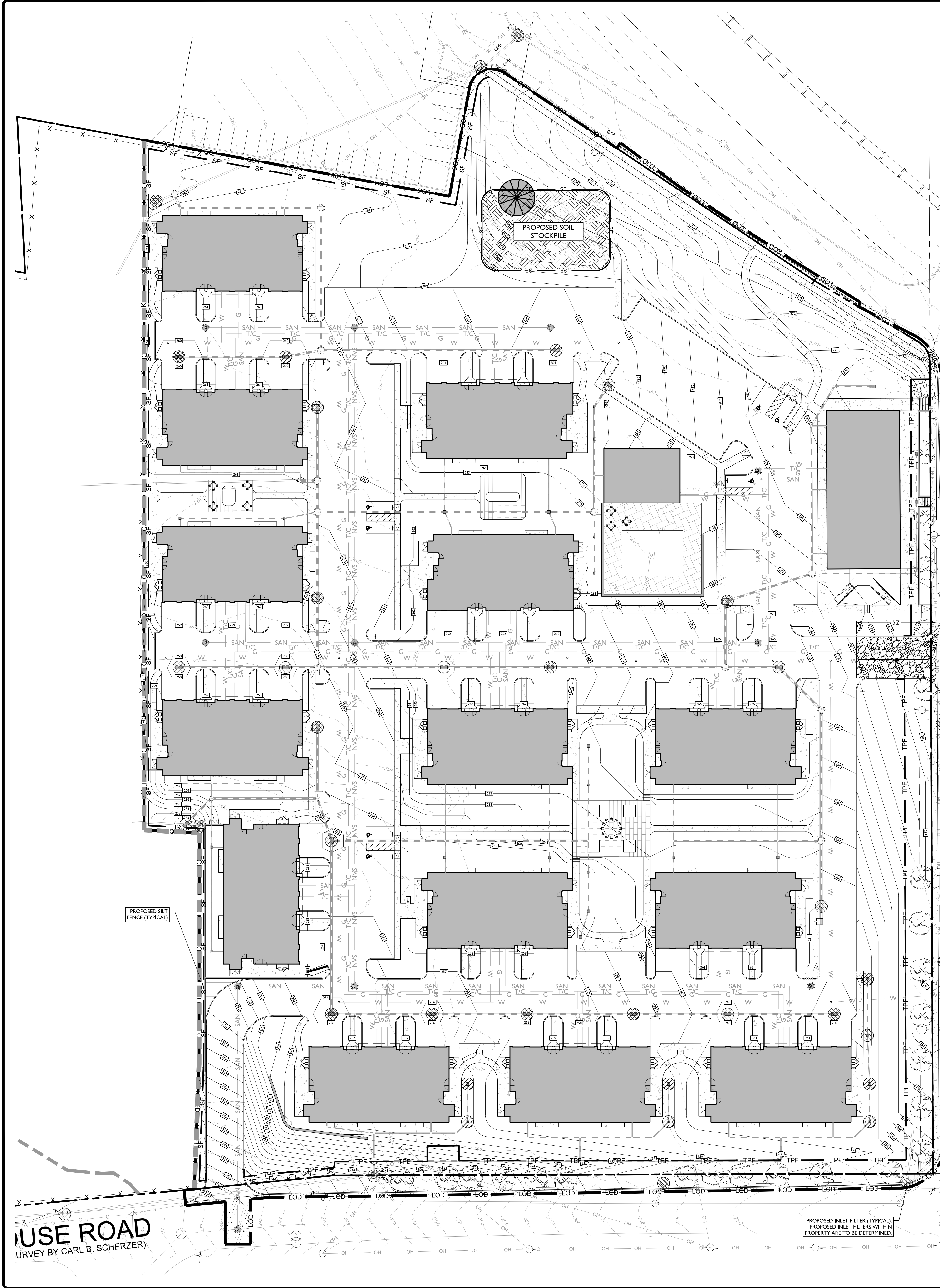
SCALE: 1" = 30' PROJECT ID: T-17298

TITLE:

LIGHTING PLAN

DRAWING:

C-8



SYMBOL

--- PROPERTY BOUNDARY

--- ADJACENT PROPERTY BOUNDARY

--- LOD --- PROPOSED LIMIT OF DISTURBANCE

--- SF --- PROPOSED SILT FENCE

--- TPF --- PROPOSED TREE PROTECTION FENCE

--- PROPOSED STOCKPILE & EQUIPMENT STORAGE

--- PROPOSED STABILIZED CONSTRUCTION ENTRANCE

--- PROPOSED INLET PROTECTION FILTER

DESCRIPTION

PROPERTY BOUNDARY

ADJACENT PROPERTY BOUNDARY

PROPOSED LIMIT OF DISTURBANCE

PROPOSED SILT FENCE

PROPOSED TREE PROTECTION FENCE

PROPOSED STOCKPILE & EQUIPMENT STORAGE

PROPOSED STABILIZED CONSTRUCTION ENTRANCE

PROPOSED INLET PROTECTION FILTER

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

2. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY STANDARDS.

3. THE CONTRACTOR IS RESPONSIBLE TO INSPECT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER A PRECIPITATION EVENT GREATER THAN 1 INCH. THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG ON SITE AND DOCUMENT CORRECTIVE ACTION TAKEN THROUGHOUT THE COURSE OF CONSTRUCTION AS REQUIRED.

NOT APPROVED FOR CONSTRUCTION

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PRELIMINARY & FINAL MAJOR SITE PLAN

ENCLAVE AT MILLINGTON

PROPOSED MIXED-USE MULTI-FAMILY AND COMMERCIAL DEVELOPMENT

BLK 601, LOT 1 & BLOCK 10106, LOT 7.01
DIVISION AVENUE
TOWNSHIP OF LONG HILL
MORRIS COUNTY, NEW JERSEY

Charles D. Olivo

CHARLES D. OLIVO, P.E.
NEW JERSEY LICENSE No. 46719
LICENSED PROFESSIONAL ENGINEER

STONEFIELD
engineering & design

SCALE: 1" = 30' PROJECT ID: T-1798

TITLE: SOIL EROSION & SEDIMENT CONTROL PLAN

DRAWING: C-9