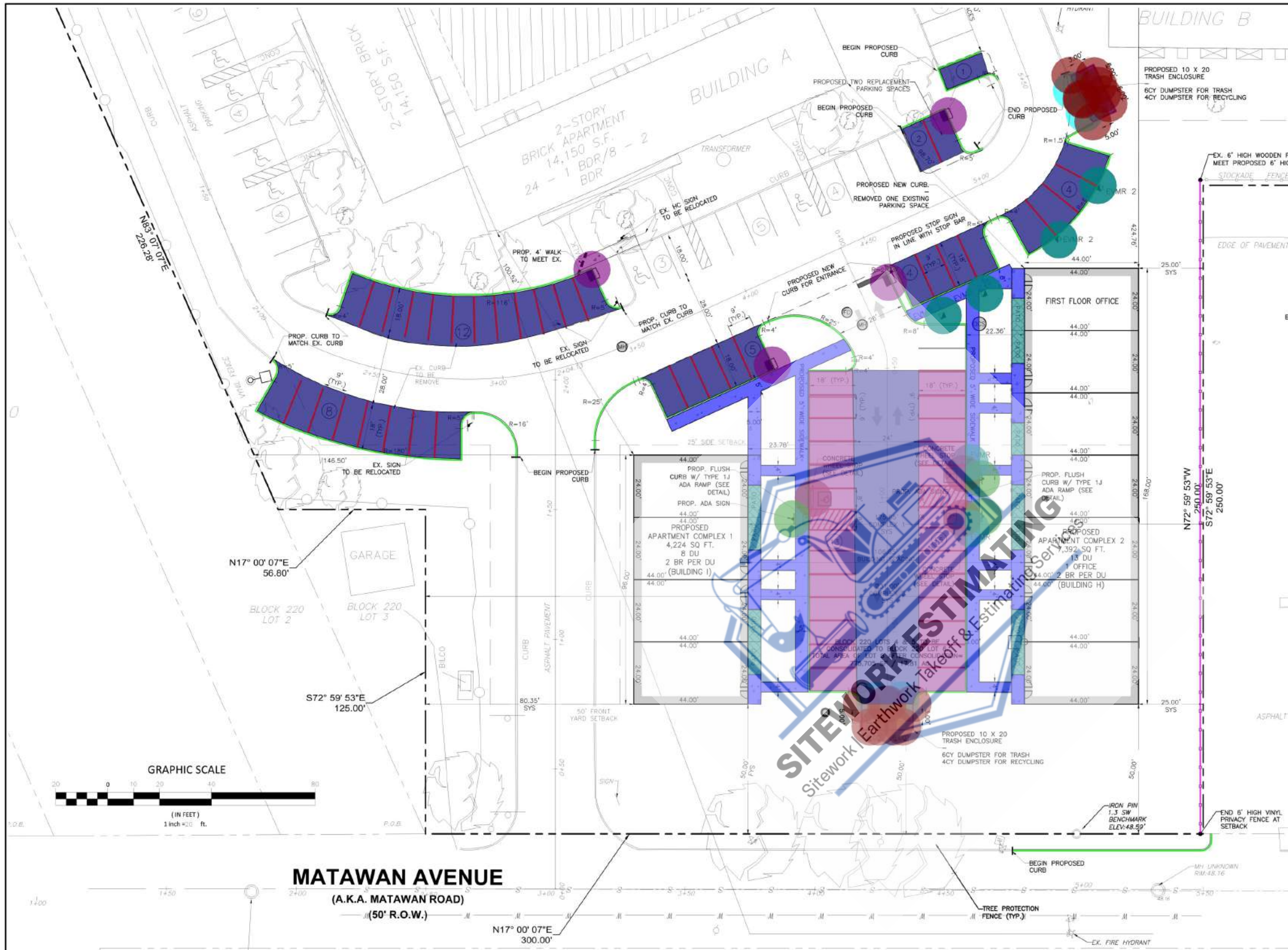


Building Data Summary	
Project ID:	*****
Location:	*****
Scope of Work:	Sitework
Date:	*****

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
19	Page 3-19	(6' H) Vinyl Privacy Fence With (4x4) Post @ 96" OC	LF	372	5%	391	\$ 1.50	\$ 585.90	0.010	\$ 50.00	\$ 0.50	\$ 195.30	\$ 781.20	
20		Fence Post (4x4)	EA	47	0%	47	\$ 85.00	\$ 3,995.00	0.120	\$ 50.00	\$ 6.00	\$ 282.00	\$ 4,277.00	
		Gate												
21		(6'-0"x9'-6") Gate W/ 6x6 WW Mesh With Clash & Latch	EA	4	0%	4	\$ 1,120.00	\$ 4,480.00	0.120	\$ 50.00	\$ 6.00	\$ 24.00	\$ 4,504.00	
		Gate Post												
22		Gate Post	EA	8	0%	8	\$ 85.00	\$ 680.00	0.120	\$ 50.00	\$ 6.00	\$ 48.00	\$ 728.00	
		Gate Post Footing												
23		Gate Post Concrete Footing (3'-0" H, 1'-0" Dia)	CY	0.69	5%	1	\$ 264.00	\$ 191.27	2.200	\$ 50.00	\$ 110.00	\$ 79.70	\$ 270.96	
		Bollards												
24		(6") Dia & (3'-6" H) Solid Filled Bollard (8' EA)	CY	1.57	0%	2	\$ 264.00	\$ 414.48	2.200	\$ 50.00	\$ 110.00	\$ 172.70	\$ 587.18	
		Grading												
25		Cut	CY	681	5%	715	\$ -	\$ -	0.135	\$ 50.00	\$ 6.75	\$ 4,826.59	\$ 4,826.59	
26		Fill	CY	91	5%	96	\$ -	\$ -	0.178	\$ 50.00	\$ 8.90	\$ 850.40	\$ 850.40	
		Utility Plan												
		Filtered Water Pipe												
27		(6" Dia) D.I.P Filtered Water Pipe	LF	82	5%	86	\$ 22.15	\$ 1,907.12	0.120	\$ 50.00	\$ 6.00	\$ 516.60	\$ 2,423.72	
		Water Pipe												
28		(2" Dia) Water Pipe Material: Copper HDPE Pipe	LF	163	5%	171	\$ 12.00	\$ 2,053.80	0.120	\$ 50.00	\$ 6.00	\$ 1,026.90	\$ 3,080.70	
		Sanitary Pipe												
29		(4" Dia) Sanitary SDR SCH40 Pipe PVC 1/4" / 1LF	LF	229	5%	240	\$ 16.00	\$ 3,847.20	0.120	\$ 50.00	\$ 6.00	\$ 1,442.70	\$ 5,289.90	
		Excavation @ Utility Pipe												
30		Cut	CY	35.2	5%	37	\$ -	\$ -	0.135	\$ 50.00	\$ 6.75	\$ 249.48	\$ 249.48	
31		Fill	CY	33	5%	35	\$ -	\$ -	0.178	\$ 50.00	\$ 8.90	\$ 308.39	\$ 308.39	
		Connection												
32		Water Meter	EA	2	0%	2	\$ 16.00	\$ 32.00	0.120	\$ 50.00	\$ 6.00	\$ 12.00	\$ 44.00	
		Drainage Plan												
		Pipe												
33		36" Dia Subsurface Storm Pipe Material: HDPE Pipe @ 0.20% 48.50'W x139.00'L	LF	1233	5%	1295	\$ 14.00	\$ 18,125.10	0.120	\$ 50.00	\$ 6.00	\$ 7,767.90	\$ 25,893.00	
34		36" Dia Subsurface Storm Pipe Material: HDPE Pipe @ 0.20% 48.50'W x139.00'L	LF	127	5%	133	\$ 14.00	\$ 1,866.90	0.120	\$ 50.00	\$ 6.00	\$ 800.10	\$ 2,667.00	
35		(15" Dia) Storm Water Pipe Material: HDPE Pipe	LF	31	5%	33	\$ 12.00	\$ 390.60	0.120	\$ 50.00	\$ 6.00	\$ 195.30	\$ 585.90	
36		(8" Dia) Precipitation Pipe	LF	556	5%	584	\$ 22.00	\$ 12,843.60	0.120	\$ 50.00	\$ 6.00	\$ 3,502.80	\$ 16,346.40	
37		(6" Dia) Drain Pipe	LF	60	5%	63	\$ 18.00	\$ 1,134.00	0.120	\$ 50.00	\$ 6.00	\$ 378.00	\$ 1,512.00	
		Excavation For Drainage Pipe												
38		Cut	CY	1076	5%	1130	\$ -	\$ -	0.135	\$ 50.00	\$ 6.75	\$ 7,626.15	\$ 7,626.15	
39		Fill	CY	705	5%	740	\$ -	\$ -	0.178	\$ 50.00	\$ 8.90	\$ 6,588.23	\$ 6,588.23	
		Connection												
40		Cleanout	EA	22	0%	22	\$ 64.00	\$ 1,408.00	0.980	\$ 50.00	\$ 49.00	\$ 1,078.00	\$ 2,486.00	
41		Type "B" Inlet	EA	4	0%	4	\$ 7.10	\$ 28.40	0.480	\$ 50.00	\$ 24.00	\$ 96.00	\$ 124.40	
42		Strom Main Hole #1 RIM. 46.65 INV. 42.95 (18") INC. 40.50 (36")	EA	1	0%	1	\$ 3,858.00	\$ 3,858.00	12.200	\$ 50.00	\$ 610.00	\$ 610.00	\$ 4,468.00	
43		Strom Main Hole #2 RIM. 47.25 INV. 43.79 (15") IN INC. 43.85 (15") IN INV. 43.55 (18") OUT	EA	1	0%	1	\$ 3,858.00	\$ 3,858.00	12.200	\$ 50.00	\$ 610.00	\$ 610.00	\$ 4,468.00	
44		Strom Main Hole #3 RIM. 49.50 INV. 40.80 (36") INC. 42.00 (8") INV. 45.77 (18")	EA	1	0%	1	\$ 3,858.00	\$ 3,858.00	12.200	\$ 50.00	\$ 610.00	\$ 610.00	\$ 4,468.00	
45		Floor Drain (FD-4HC) RIM. 46.50	EA	1	0%	1	\$ 64.00	\$ 64.00	0.980	\$ 50.00	\$ 49.00	\$ 49.00	\$ 113.00	

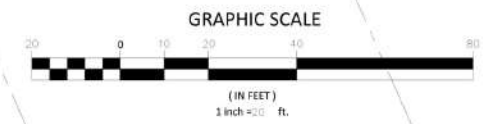


- 6" Concrete Curb 1,167.7 FT
- 6" Concrete Depressed Curb Conc... 16.3 FT
- Concrete Side Walk 3,261.7 SQ FT
- Concrete Wheel Stop 2.75" Dia 2'-0" ... 3.0
- ADA Sign (9'-6" H) U Post Steel or Steel 3.0
- Heavy Duty Pavement 4" Soil ... 9,191.6 SQ FT
- Type "B" Inlet 4.0
- Electric Vehicle Make Ready Location 10.0
- Painted Strips 1,161.2 FT
- Trash Enclosure (10x20)-6 CY Dump... 2.0
- Class "B" Concrete 4500 P.S.I ... 181.1 SQ FT
- (6' H) Vinyl Privacy Fence With (4... 371.2 FT
- (6'-0"x9'-6") Gate W/ 6x6 WW Mesh 4.0
- Gate Post Concrete Footing (3'-0" H, ... 8.0
- (4' H) Bollards 8.0
- Light Duty Pavement 4" Soil A... 4,410.9 SQ FT
- Patio Concrete 693.4 SQ FT

TRASH CALCULATION
22 DU X 50 GAL/WEEK = 1100 GAL/WEEK X 1 CY/106.56 GAL = 5.60 CY/WEEK
6CY TRASH DUMPSTER: 6'W x 5'D x 6'H
4CY RECYCLE DUMPSTER: 6'W x 3'D x 4'H
10CY - TOTAL



FLOOD INFORMATION
BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE "X" & "A" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 3402500030F AND 2402500020F, WHICH BEARS AN EFFECTIVE DATE OF SEPTEMBER 25, 2008 AND IS IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
ZONE "X" DENOTES AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
ZONE "A" DENOTES SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. NO BASE FLOOD ELEVATIONS DETERMINED.



MATAWAN AVENUE
(A.K.A. MATAWAN ROAD)
(50' R.O.W.)

ZONING DATA (PROPOSED)

ZONE: AP1/TH (APARTMENT/TOWNHOUSE MULTIPLE-FAMILY RESIDENTIAL)									
	EXISTING LOT 6	EXISTING LOT 6	EXISTING LOT 6	EXISTING LOT 6	EXISTING LOT 6	EXISTING LOT 6	EXISTING LOT 6	PROPOSED LOT 6	PROPOSED LOT 6
	REQUIRED	BUILDING #1	BUILDING #2	BUILDING #3	BUILDING #4	BUILDING #5	BUILDING #6	COMPLEX 1	COMPLEX 2
MIN. LOT AREA	5,000 AC							0.215 AC	0.215 AC
MIN. FRONT YARD SETBACK (FYS)	25'	331.61'	303.29'	348.23'	104.84'	189.45'	806.62'	50.00'	50.00'
MIN. REAR YARD SETBACK (RYS)	25'	509.53'	130.88'	237.59'	350.03'	204.15'	51.15'	282.95'	1193.22'
MIN. SIDE YARD SETBACK (SYS)	25'	84.78'	167.20'	116.72'	75.61'	106.71'	73.01'	196.81'	25.00'
SIDE YARD SETBACK AGGREGATE	-	514.01'	531.93'	378.44'	385.04'	422.87'	477.33'	245.85'	256.00'
MAX. BUILDING COVERAGE	-	1.87%	1.97%	2.08%	0.07%	0.07%	0.07%	2.17%	0.06%
MAX. BUILDING HEIGHT	<= 35'	35'	35'	35'	35'	35'	35'	35'	35'
PARKING		63	30	68	19	21	23	110	64
MAX. IMPERVIOUS COVERAGE	80%							36.84%	

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
ELECTRIC METER			TO BE REMOVED		*TBR	TYPE "B" INLET		
GAS METER			CONCRETE SIDEWALK			PAVEMENT		
GAS VALVE			DEPRESSED CURB			IRON PIN		
WATER VALVE			DETECTABLE WARNING SURFACE			ELECTRIC VEHICLE MAKE READY LOCATION (EVMR)		
WATER METER			PARKING COUNT			DUAL ELECTRIC VEHICLE MAKE READY LOCATION (EVMR 2)		
UTILITY POLE			PROPOSED CLEANOUT					
SIGN			SITE LIGHTING					
OVERHEAD WIRE			CONTOUR					
AIR CONDITIONER								

LEGEND

08-07-2023 REVISED LAYOUT AND PARKING CALCULATIONS FOR 1ST FLOOR OFFICE SPACE 08-07-2023 GDL ADP

03-22-2023 REVISED PER CME LETTER DATED 03-21-2023 REQ ADP

03-22-2023 REVISED PER RVE LETTER DATED 03-09-2023 TS/GDL ADP

01-12-2023 ADDED CYSE PARKING AS PER REQUIREMENT CDL ADP

08-04-2022 REVISED PER ABERDEEN PLANNING BOARD MEETING DATED 03-23-2022 DCS ADP

11-17-2020 REVISED PER ABERDEEN PLANNING BOARD LETTER DATED 08-20-2022 DCS ADP

DATE DESCRIPTION ENGINEER CAD

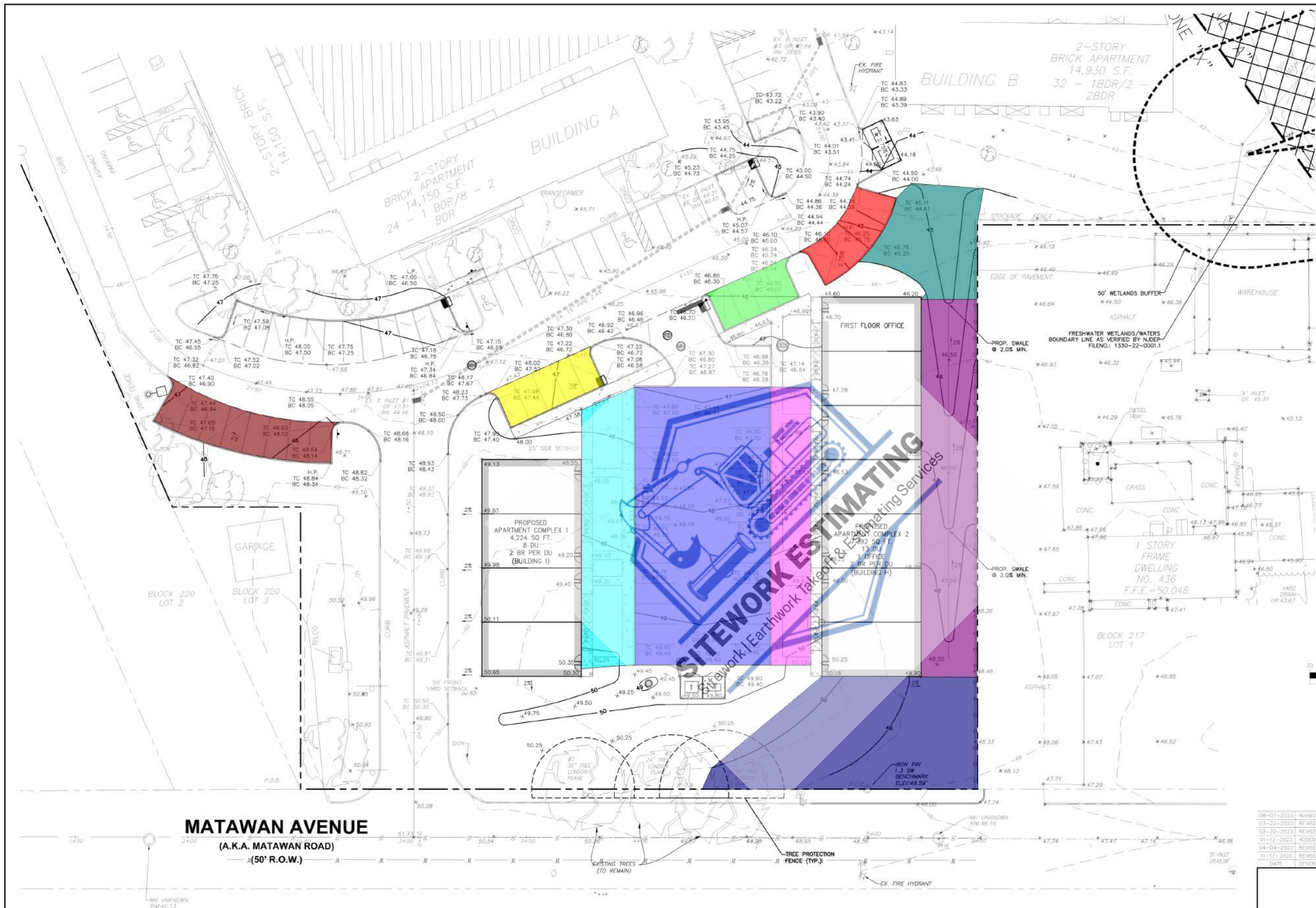
MAJOR SITE PLAN
LAYOUT & DIMENSION PLAN
KEN GARDENS APARTMENTS
BLOCK 220 LOTS 4, 5 & 6
ABERDEEN TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY

NEW LINES
LAND CONSULTANTS LLC
NEW JERSEY LICENSE # 2402500020F
GLENN D. LINES, P.E., P.P.

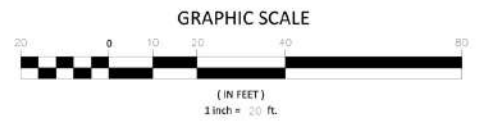
315 Monmouth Avenue
Suite 205
Lakewood, New Jersey 08701
Phone (732) 994-4900
Fax (732) 994-4999

PROJECT NO. 19094
DESIGNED BY ADP
SCALE 1" = 20'
DATE 8/7/2023
DATE 7-9-2019
SHEET 6 OF 22

0.5	4,904.4 SQ FT
-0.5	4,126.0 SQ FT
-0.5	1,897.3 SQ FT
-0.5	821.9 SQ FT
-0.5	651.9 SQ FT
-0.5	816.2 SQ FT
-1.5	7,349.7 SQ FT
-0.5	2,218.0 SQ FT
-0.5	2,807.5 SQ FT
-0.5	1,437.1 SQ FT



CALL BEFORE YOU DIG
1-800-272-1000
It's THE LAW
 NEW JERSEY ONE CALL Dig@Safety.



MATAWAN AVENUE
 (A.K.A. MATAWAN ROAD)
 (50' R.O.W.)

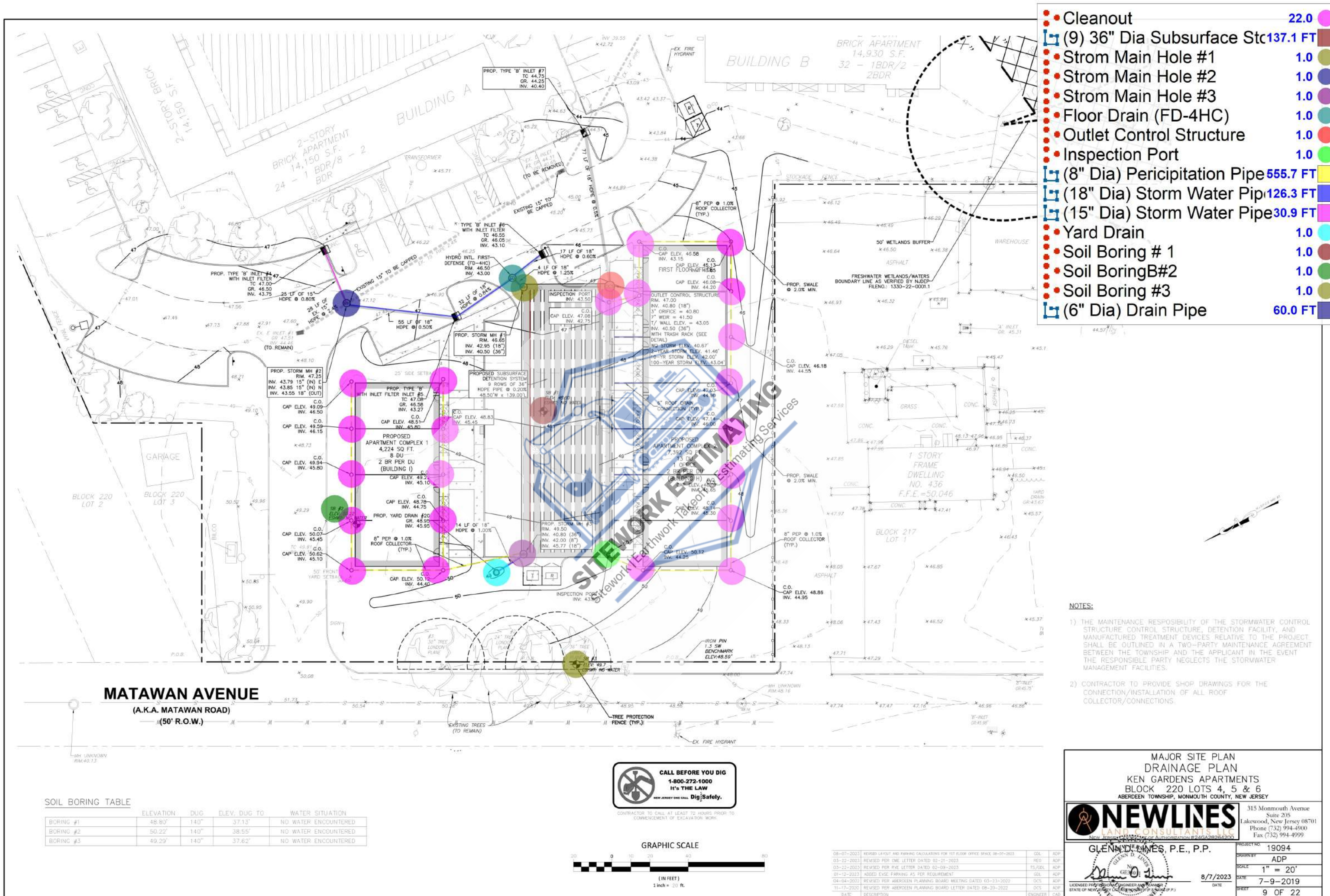
08-07-2023	REVISED LAYOUT AND PARKING CALCULATIONS FOR 1ST FLOOR OFFICE SPACE 08-07-2023	CDL	ADP
03-22-2023	REVISED PER CMC LETTER DATED 03-21-2023	REQ	ADP
03-22-2023	REVISED PER RVE LETTER DATED 03-09-2023	TS/GOL	ADP
01-12-2023	ADDED CYSE PARKING AS PER REQUIREMENT	CDL	ADP
04-04-2022	REVISED PER ABERDEEN PLANNING BOARD MEETING DATED 03-23-2022	DCS	ADP
11-17-2020	REVISED PER ABERDEEN PLANNING BOARD LETTER DATED 08-20-2022	DCS	ADP
DATE	DESCRIPTION	ENGINEER	CAD

MAJOR SITE PLAN
GRADING PLAN
KEN GARDENS APARTMENTS
BLOCK 220 LOTS 4, 5 & 6
 ABERDEEN TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY

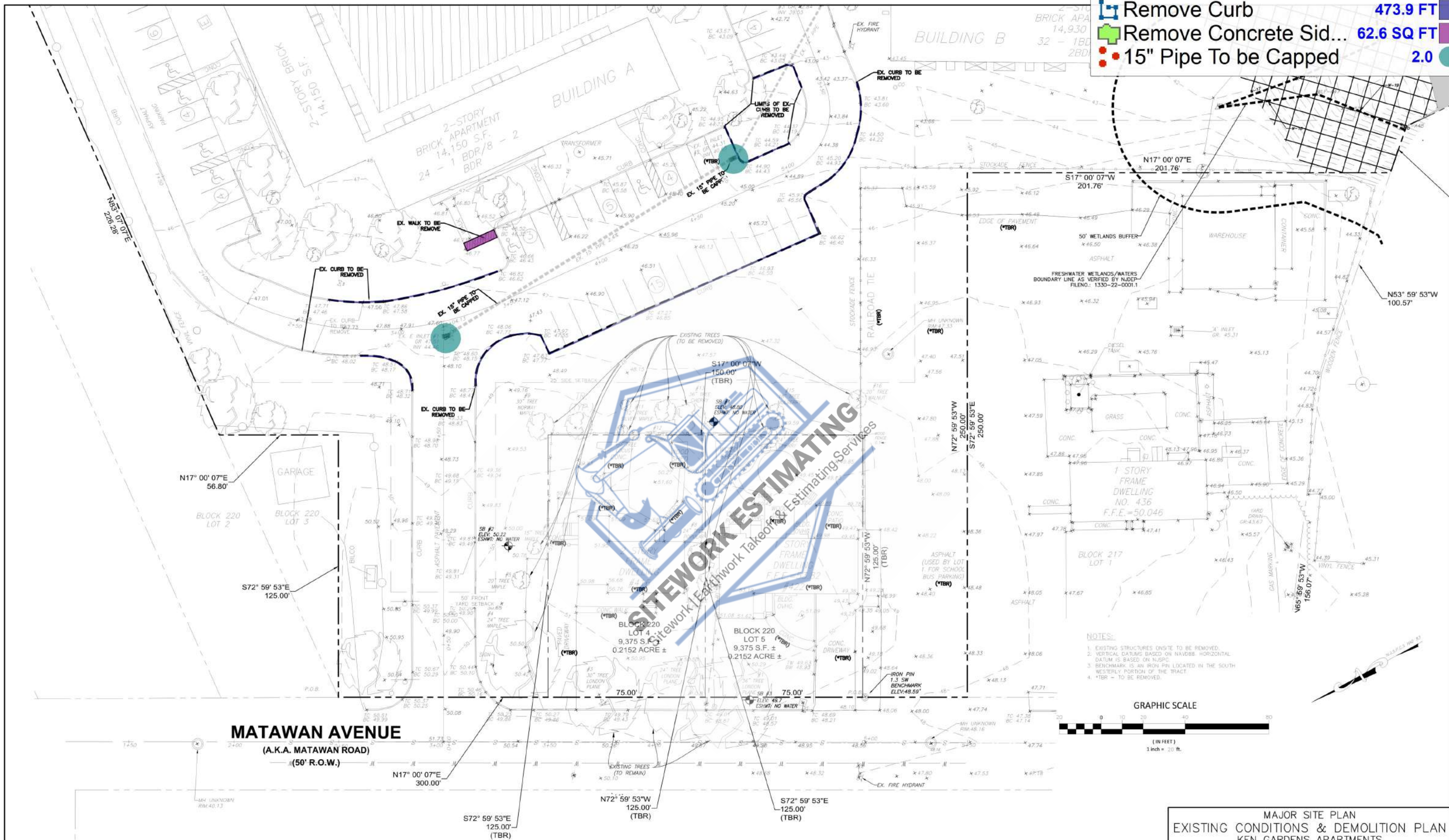
NEW LINES
 LAND CONSULTANTS LLC
 NEW JERSEY STATE OF AUTHORIZATION #246A28264200

GLENN D. LINES, P.E., P.P.

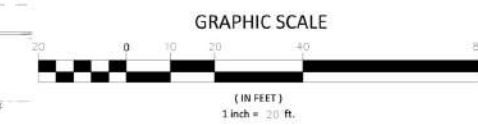
PROJECT NO. 19094
 DRAWN BY ADP
 SCALE 1" = 20'
 DATE 8/7/2023
 SHEET 7 OF 22



- Remove Curb 473.9 FT
Remove Concrete Sid... 62.6 SQ FT
15" Pipe To be Capped 2.0



- NOTES:
- EXISTING STRUCTURES ON SITE TO BE REMOVED.
 - VERTICAL DATUMS BASED ON NAVD83. HORIZONTAL DATUM IS BASED ON NAD83.
 - BENCHMARK IS AN IRON PIN LOCATED IN THE SOUTH WESTERLY PORTION OF THE TRACT.
 - *TBR = TO BE REMOVED.



FLOOD INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE "X" & "A" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 34025C00030F AND 34025C00028F, WHICH BEARS AN EFFECTIVE DATE OF SEPTEMBER 25, 2009 AND IS IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

ZONE "X" DENOTES AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

ZONE "A" DENOTES SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. NO BASE FLOOD ELEVATIONS DETERMINED.

SOIL BORING TABLE				
BORING #1	ELEVATION	DUG	ELEV. DUG TO	WATER SITUATION
BORING #2	48.80'	140"	37.13'	NO WATER ENCOUNTERED
BORING #3	50.22'	140"	38.55'	NO WATER ENCOUNTERED
BORING #4	49.29'	140"	37.62'	NO WATER ENCOUNTERED

- LEGEND
- W = WATER
 - WV = WATER VALVE
 - IP = IRON PIN
 - BS = BUSINESS SIGN
 - TS = TRAFFIC SIGN
 - UP = UTILITY POLE
 - EL = ELECTRIC LINE

DATE	DESCRIPTION	ENGINEER	CAD
08-07-2023	REVISED LAYOUT AND PARKING CALCULATIONS FOR 1ST FLOOR OFFICE SPACE, 08-07-2023	GDL	ADP
03-22-2023	REVISED PER ONE LETTER DATED 03-21-2023	RED	ADP
03-22-2023	REVISED PER ONE LETTER DATED 03-09-2023	TS/GDL	ADP
01-12-2023	ADDED EVSE PARKING AS PER REQUIREMENT	GDL	ADP
04-04-2023	REVISED PER ABERDEEN PLANNING BOARD MEETING DATED 03-23-2023	DCS	ADP
11-17-2020	REVISED PER ABERDEEN PLANNING BOARD LETTER DATED 08-20-2022	DCS	ADP
DATE	DESCRIPTION	ENGINEER	CAD

MAJOR SITE PLAN
EXISTING CONDITIONS & DEMOLITION PLAN
KEN GARDENS APARTMENTS
BLOCK 220 LOTS 4, 5 & 6
ABERDEEN TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY

NEWLINES
LAND CONSULTANTS LLC
New Jersey Certificate of Authorization #246A28264200

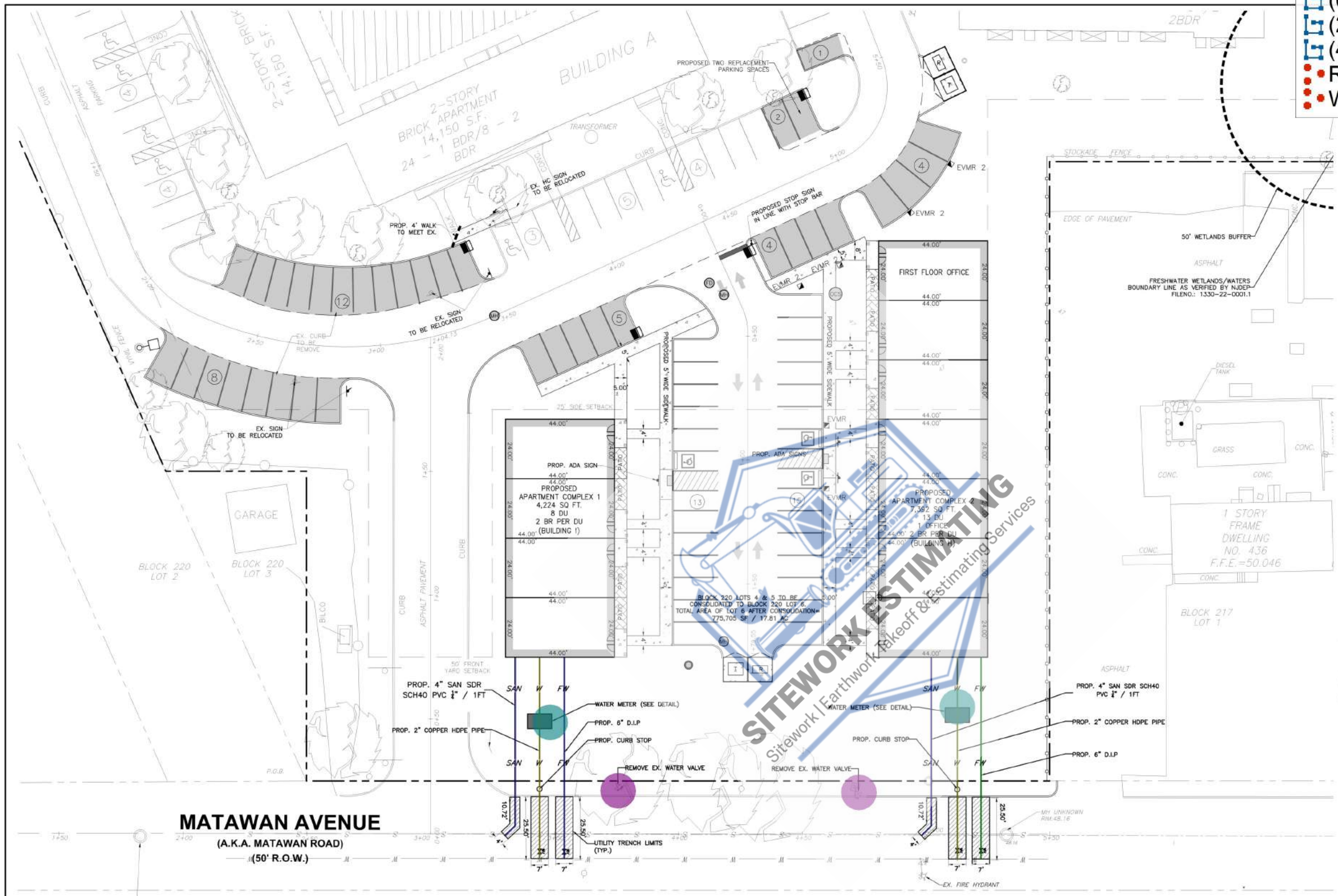
GLENN D. LINES, P.E., P.P.
Professional Engineer
Professional Planner

PROJECT NO. 19094
DRAWN BY ADP
SCALE 1" = 20'
DATE 7-9-2019
SHEET 3 OF 22

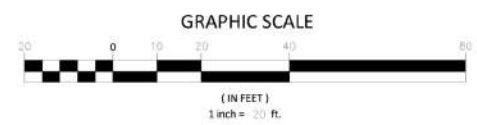
315 Monmouth Avenue
Suite 205
Lakewood, New Jersey 08701
Phone (732) 994-4900
Fax (732) 994-4999

8/7/2023

- (6" Dia) D.I.P Filtered Water Pi... 81.4 FT
(2" Dia) Water Pipe 162.9 FT
(4" Dia) Sanitary SDR SCH40 Pi... 228.5 FT
Remove Water Valve 2.0
Water Meter 2.0



- OWNER SHALL OWN ALL WATER IMPROVEMENTS FROM LOCAL UTILITIES AUTHORITY MAIN TO EACH BUILDING.
- THE BOUNDARY AND TOPOGRAPHIC INFORMATION FOR THE SITE PLAN IS BASED ON A SURVEY PREPARED BY GRET ENGINEERING ASSOCIATES, INC. DATED 02-28-2000, REVISED 08-10-2000.
- LOCATION OF IMPROVEMENTS BASED ON ACTUAL FIELD SURVEY PERFORMED ON 3/25/2019 & 4/03/2019 AND REVISED ON 8-14-2019 BY NEW LINES ENGINEERING & SURVEY OF LAKEWOOD, NJ.
- BENCHMARK IS A MANHOLE RM LOCATED AT THE SOUTH-WESTERLY PORTION OF THE TRACT IN MATAWAN AVENUE AT AN ELEVATION OF 48.16.
- ALL WATER LATERALS MUST BE FIVE FEET BELOW GROUND SURFACE.
- THE AUTHORITY MUST BE NOTIFIED AT LEAST 48 HOURS BEFORE CONSTRUCTION IS TO COMMENCE.
- ALL LINES INCLUDING FIRE LINES MUST HAVE REDUCED PRESSURE BACKFLOW PREVENTERS INSTALLED. TRACER WIRE MUST BE INSTALLED ABOVE ALL WATER SERVICES.
- THE COST OF THE WATER METER AND EQUIPMENT WILL BE AT THE RATE LISTED IN THE AUTHORITY'S RATE SCHEDULE IN EFFECT AT THE TIME OF PURCHASE.
- FIRE WATER SERVICE IS TO BE CLASS 52 CEMENT LINED DUCTILE IRON PIPE.
- THE CONTRACTOR SHALL EXPOSE PRIOR TO CONSTRUCTION AND VERIFY THE ELEVATION OF ANY FACILITY WHOSE DEPTH IS NOT KNOWN.
- ALL EVMR (ELECTRIC VEHICLE MAKE READY) LOCATIONS TO BE PROVIDED WITH A JUNCTION BOX AND CONDUIT EXTENDING TO THE ELECTRIC METER SUPPLYING THE EVSE (ELECTRIC VEHICLE SUPPLY EQUIPMENT). A MINIMUM OF 3 LOCATIONS ARE REQUIRED TO HAVE EVSE AT THE TIME OF CONSTRUCTION. AN ADDITIONAL 3 EVSE LOCATIONS ARE TO BE PROVIDED BY THE END OF YEAR 3. AN ADDITIONAL 3 EVSE LOCATIONS (INCLUDING 1 ADA) ARE TO BE PROVIDED BY THE END OF YEAR 6.



MATAWAN AVENUE
(A.K.A. MATAWAN ROAD)
(50' R.O.W.)

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
ELECTRIC METER	E	E	TO BE REMOVED		*TBR	TYPE "B" INLET		
GAS METER	G	G	CONCRETE SIDEWALK			PAVEMENT		
GAS VALVE	GV	GV	DEPRESSED CURB			IRON PIN		
WATER VALVE	WV	WV	DETECTABLE WARNING SURFACE			ELECTRIC VEHICLE MAKE READY LOCATION (EVMR)		
WATER METER	WM	WM	PARKING COUNT			DUAL ELECTRIC VEHICLE MAKE READY LOCATION (EVMR 2)		
UTILITY POLE	UP	UP	PROPOSED CLEANOUT					
SIGN	S	S	SITE LIGHTING					
OVERHEAD WIRE	OVHD	OVHD	CONTOUR					
AIR CONDITIONER	AC	AC						

LEGEND

MAJOR SITE PLAN
UTILITY PLAN
KEN GARDENS APARTMENTS
BLOCK 220 LOTS 4, 5 & 6
ABERDEEN TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY

NEW LINES
LAND CONSULTANTS LLC
NEW JERSEY STATE OF AUTHORIZATION #262626200

GLENN D. LINES, P.E., P.P.

8/7/2023

PROJECT NO. 19094
DESIGNED BY ADP
SCALE 1" = 20'
DATE 7-9-2019
SHEET 8 OF 22

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	VOLTS	QUANTITY
A		SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), 2 LEDSTILED 63-DEGREES FROM VERTICAL BASE-UP POS	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST WHITE PAINTMETAL LENS FRAME.	ELECTRONIC	POLE	RAB LIGHTING INC., ALED3T150 - RWLED3T150SF - WPLED3T150SF (TYPE III)	120V 1P 2W	3
B		SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), 2 LEDSTILED 63-DEGREES FROM VERTICAL BASE-UP POS	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST WHITE PAINTMETAL LENS FRAME.	ELECTRONIC	BUILDING	RAB LIGHTING INC., ALED3T150 - RWLED3T150SF - WPLED3T150SF (TYPE III)	120V 1P 2W	2

APARTMENT LIGHTING AREA	REQUIRED	PROVIDED
MINIMUM INTENSITY FOOT CANDLES (FC)	0.3 FC	0.3 FC
AVERAGE INTENSITY FOOT CANDLES (FC)	0.5 FC	1.65 FC
UNIFORMITY RATIO	-	7.8 : 0.3

AS PER ABERDEEN UDO, CHAPTER XXV "LAND DEVELOPMENT" - "25-3 ZONING DISTRICTS & ZONING MAP" - "25-5 IMPROVEMENTS & DESIGN" - "25-5.3 LIGHTING"

RAB
LIGHTING

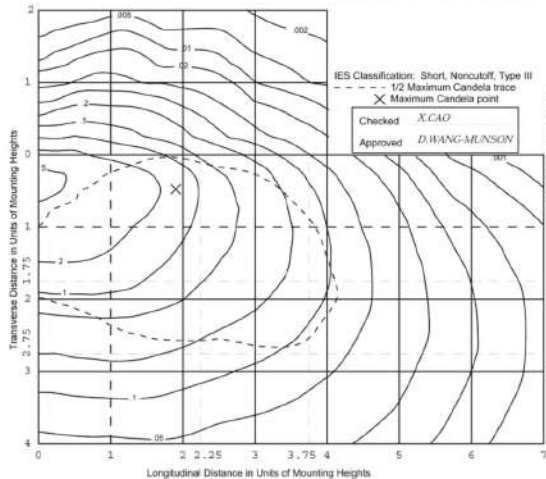
NVLAP
NIGHT VISION LIGHTING ASSOCIATION

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 25 foot mounting height

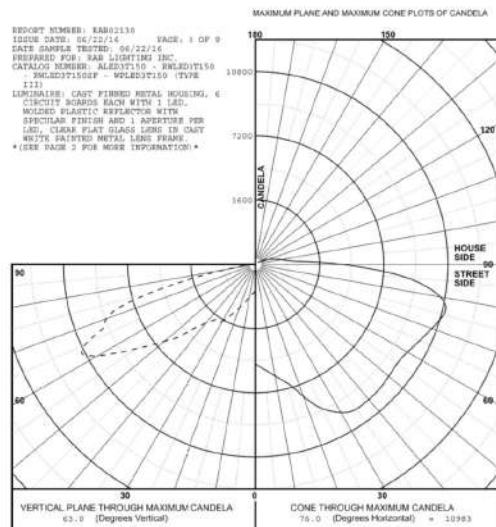


REPORT NUMBER: RAB02130
ISSUE DATE: 06/22/16
DATE SAMPLE TESTED: 06/22/16
PREPARED FOR: RAB LIGHTING INC.
CATALOG NUMBER: ALED3T150 - RWLED3T150SF - WPLED3T150SF (TYPE III)
EQUIPMENT: CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST WHITE PAINTMETAL LENS FRAME.
* (SEE PAGE 2 FOR MORE INFORMATION) *



RAB
LIGHTING

NVLAP
NIGHT VISION LIGHTING ASSOCIATION



NOTES

- ALL PARKING AREAS AND WALKWAYS THERE TO AND APPURTENANT PASSAGEWAYS AND DRIVEWAYS SERVING COMMERCIAL, PUBLIC, OFFICE, INDUSTRIAL, APARTMENT OR OTHER SIMILAR USES HAVING COMMON OFF-STREET PARKING AND/OR LOADING AREAS, AND BUILDING COMPLEXES REQUIRING AREA LIGHTING SHALL BE ADEQUATELY ILLUMINATED FOR SECURITY AND SAFETY PURPOSES. THE LIGHTING PLAN IN AND AROUND THE PARKING AREAS SHALL PROVIDE FOR UNIFORM, COLOR CORRECTED LIGHT FOCUSED DOWNWARD. THE LIGHT INTENSITY PROVIDED AT GROUND LEVEL SHALL BE A MINIMUM OF THREE-TENTHS (0.3) FOOTCANDLE ANYWHERE IN THE AREA TO BE ILLUMINATED. SHALL AVERAGE A MINIMUM OF FIVE-TENTHS (0.5) FOOTCANDLE OVER THE ENTIRE AREA, AND SHALL BE PROVIDED BY FIXTURES WITH A MOUNTING HEIGHT NOT MORE THAN TWENTY-FIVE (25) FEET OR THE HEIGHT OF THE BUILDING, WHICHEVER IS LESS, MEASURED FROM THE GROUND LEVEL TO THE CENTERLINE OF THE LIGHT SOURCE AND SPACED A DISTANCE NOT TO EXCEED FIVE (5) TIMES THE MOUNTING HEIGHT. ANY OTHER OUTDOOR LIGHTING SUCH AS SIDEWALK ILLUMINATION, DRIVEWAYS WITH NO ADJACENT PARKING, THE LIGHTING OF SIGNS AND ORNAMENTAL LIGHTING SHALL BE SHOWN ON THE LIGHTING PLAN IN SUFFICIENT DETAIL TO ALLOW DETERMINATION OF THE EFFECTS TO ADJACENT PROPERTIES, TRAFFIC SAFETY AND OVERHEAD SKY GLOW. THE OBJECTIVE OF THESE SPECIFICATIONS IS TO MINIMIZE UNDERSIRABLE OFF-PREREISES EFFECTS. NO DIRECT LIGHTING SHALL BE PERMITTED. ADDITIONALLY, NO LIGHT SHALL SHINE INTO WINDOWS OR DRIVEWAYS IN SUCH MANNER AS TO INTERFERE WITH OR OBSTRUCT DRIVER VISION. TO ACHIEVE THESE REQUIREMENTS, THE INTENSITY OF EACH LIGHT SOURCE, THE LIGHT SHIELDING AND SIMILAR CHARACTERISTICS SHALL BE SUBJECT TO SITE PLAN APPROVAL BY THE BOARD.
- STREET LIGHTING OF A TYPE SUPPLIED BY THE UTILITY AND OF A TYPE AND NUMBER APPROVED BY THE TOWNSHIP ENGINEER SHALL BE PROVIDED FOR ALL STREET INTERSECTIONS AND ALONG ALL ARTERIAL, COLLECTOR AND LOCAL STREETS AND ANYWHERE ELSE DEEMED NECESSARY FOR SAFETY REASONS. WHENEVER ELECTRIC STREET LIGHT INSTALLATIONS ARE REQUIRED TO BE UNDERGROUND, THE APPLICANT SHALL PROVIDE FOR UNDERGROUND SERVICE FOR STREET LIGHTING.
- LIGHTS WILL BE ON TIMERS; HOURS OF OPERATIONS WILL BE FROM DUSK TO DAWN. ALL LIGHT FIXTURES AND FIXTURES WILL HAVE THE BRONZE COLOR FINISH. THREE BUILDING MOUNTED LIGHTING FIXTURES HAVE BEEN PROPOSED.

ALED3T150

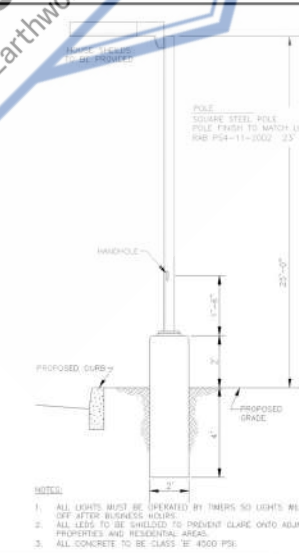


Specification grade area lights available in IES Type III distribution. For use for parking, general parking and other area lighting applications where a larger pool of lighting is required. Mounting height: 25 feet. Mounting height: 25 feet. Mounting height: 25 feet.

Technical Specifications

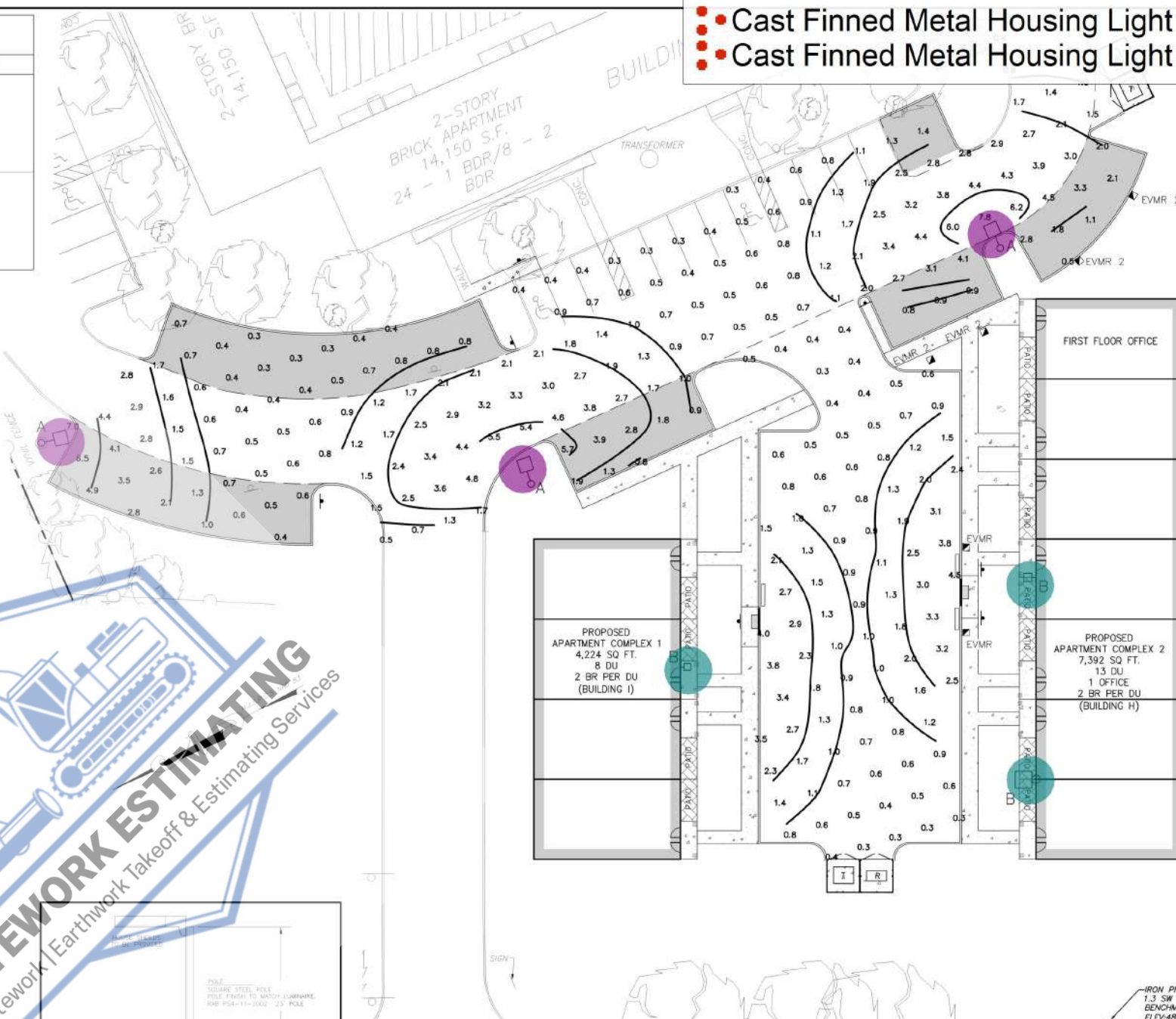
Lighting:
UL Listing: Suitable for wet locations.
DLG Listing: This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
IESNA LM-79 & LM-80 Testing: RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.
Dark Sky Approved: The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.
Driver: One Driver, Constant Current, Class 2, 210Watt, 100V, 277V, 50-60Hz, Power Factor 99%.
Effective Projected Area: 100 sq ft.
Thermal Management: Superior thermal management with advanced "The Pin" fin.
LEDs: Multi-chip, high-output, long-life LEDs.

ON SITE LIGHT POLE AND FIXTURE DETAIL

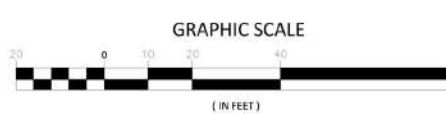


SITENETWORK ESTIMATING
Sitenetwork Earthwork Takeoff & Estimating Services

Cast Finned Metal Housing Light (3.0)
Cast Finned Metal Housing Light (3.0)



FOOTING REINFORCING



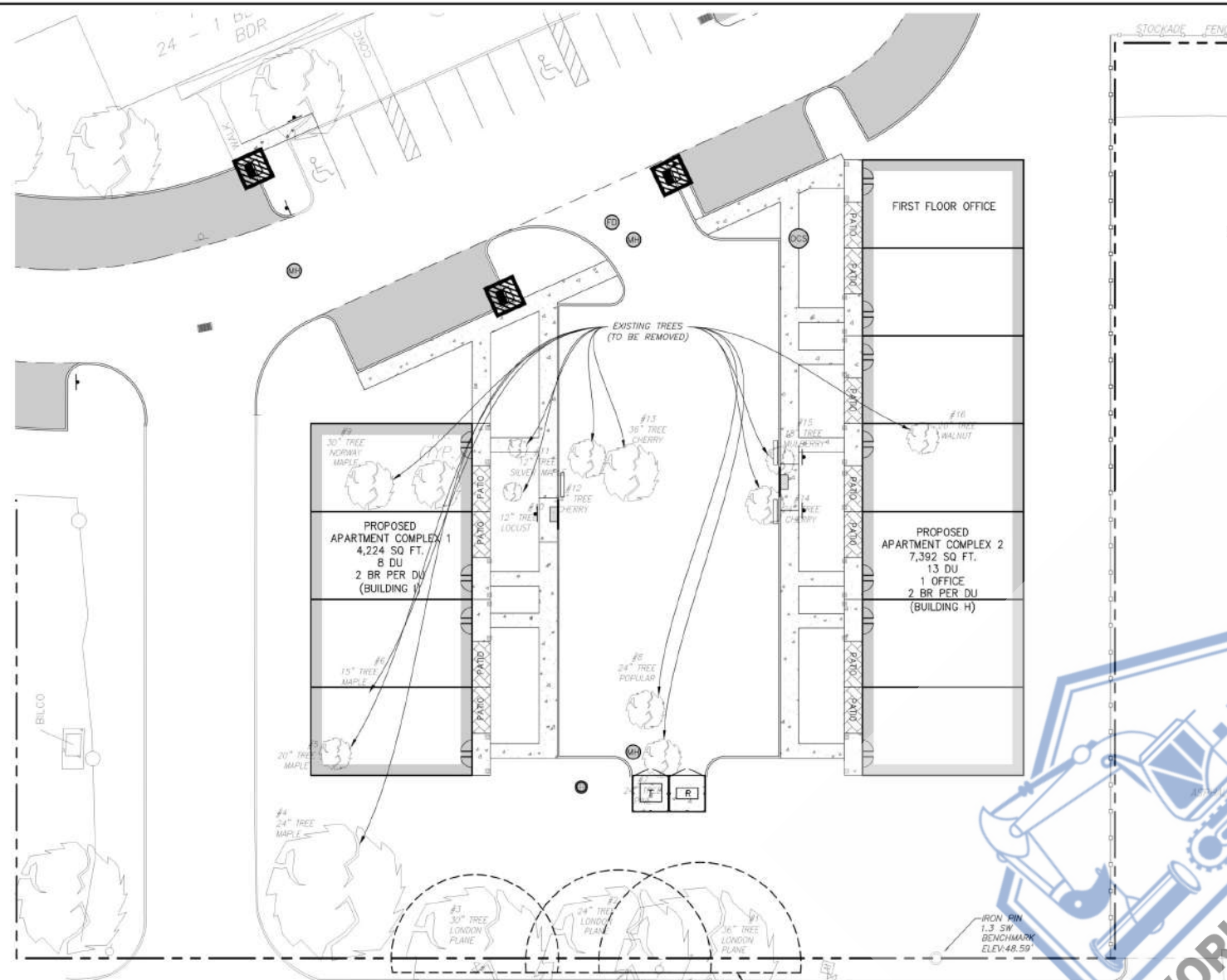
MAJOR SITE PLAN LIGHTING PLAN
KEN GARDENS APARTMENTS
BLOCK 220 LOTS 4, 5 & 6
ABERDEEN TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY

NEWLINES
LAND CONSULTANTS LLC
315 Monmouth Avenue Suite 205
Lakewood, New Jersey 08701
Phone (732) 994-4900
Fax (732) 994-4999

GLENN D. LINES, P.E., P.P.
8/7/2023
DATE

PROJECT NO. 19094
DRAWN BY ADP
SCALE 1" = 20'
DATE 7-9-2019
SHEET 10 OF 22

DATE	DESCRIPTION	ENGINEER	CAD
08-07-2023	REVISED LAYOUT AND PARKING CALCULATIONS FOR 1ST FLOOR OFFICE SPACE	GDL	ADP
03-22-2023	REVISED PER ONE LETTER DATED 02-21-2023	REG	ADP
03-22-2023	REVISED PER RVE LETTER DATED 03-09-2023	TS/GDL	ADP
01-12-2023	ADDED EVSE PARKING AS PER REQUIREMENT	GDL	ADP
04-04-2022	REVISED PER ABERDEEN PLANNING BOARD MEETING DATED 03-23-2022	DCS	ADP
11-17-2020	REVISED PER ABERDEEN PLANNING BOARD LETTER DATED 08-20-2022	DCS	ADP
DATE	DESCRIPTION	ENGINEER	CAD



Tree Number	Species	Tree Size (Inches)	Removed or Saved
1	London Planetree	36	Saved
2	London Planetree	24	Saved
3	London Planetree	30	Saved
4	Maple	24	REMOVED
5	Maple	20	REMOVED
6	Maple	15	REMOVED
7	Pine	24	REMOVED
8	Poplar	24	REMOVED
9	Norway Maple	30	REMOVED
10	Locust	12	REMOVED
11	Silver Maple	12	REMOVED
12	Cherry	24	REMOVED
13	Cherry	36	REMOVED
14	Cherry	24	REMOVED
15	Mulberry	18	REMOVED
16	Walnut	20	REMOVED

Tree Removal Replacement Notes

- Per 25-5.10.d. 12 trees are required per disturbed acre. Total disturbed area is 1.12 acres (Lots 4 & 5 and part of Lot 6); 1.12 acres x 12 trees/acre = 13.44 trees required, rounded to 13 trees required at 3" to 3-1/2" caliper.
- Per 25-5.10.o.1 (b). The total site (lots 4, 5, & 6) is 17.81 ACRES. Total wooded areas are approximately 4.90 acres on Lot 6. No existing wooded areas are being disturbed, just individual trees on Lots 4 & 5.
- Per 25-5.10.o.1 (c). All trees to be removed with caliper sizes are shown on this plan.
- Per 25-5.10.o.2 Replacement trees shall be provided at a one (1) to one (1) ratio for each tree six (6) inches DBH or greater to be removed. There are 13 trees proposed to be removed, therefore at 1 to 1 replacement 13 replacement trees are required at 3" to 3-1/2" caliper.
- Total trees required per 25-5.10 is 13 trees for disturbed area and 13 trees for tree replacements = 26 trees required at 3" to 3-1/2" caliper.

TOTAL DISTURBED AREA: 1.12 AC

- REMOVING 13 TREES FROM SITE. (AS MARKED ON PLAN)
- 3 TREES TO REMAIN (AS MARKED ON PLAN)

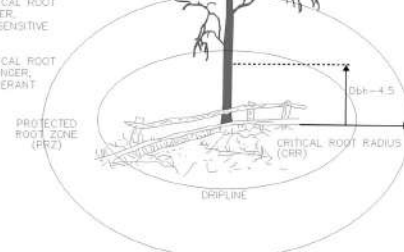
AVENUE

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

- MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5 FEET ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.
- MULTIPLY MEASURED DBH BY 1.5 OR 1.0, EXPRESS THE RESULT IN FEET.

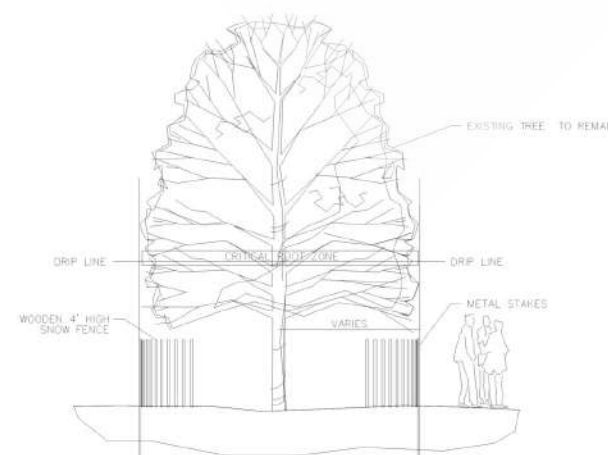
DBH x 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY OR SENSITIVE SPECIES.

DBH x 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY OR TOLERANT SPECIES.



ROOT PROTECTION DURING CONSTRUCTION DETAIL

NOT TO SCALE



- NOTES:
- 1) SNOW FENCE SHALL BE LOCATED BEYOND THE DRIP LINE OF EXISTING VEGETATION TO REMAIN. SNOW FENCING SHALL BE INSTALLED AT THE COMMENCEMENT OF CONSTRUCTION AND IS TO BE MAINTAINED THROUGHOUT THE DURATION.
 - 2) NO STORAGE OF CONSTRUCTION MATERIALS, SOIL STOCK PILES OR PARKING OF VEHICLES NEAR TREES TO REMAIN.
 - 3) NO UTILITY TRENCHING WITHIN CRITICAL ROOT ZONE.

EXISTING TREE PROTECTION DETAIL

NOT TO SCALE



CONTRACTOR TO CALL AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION WORK.

GRAPHIC SCALE



08-07-2023	REVISED LAYOUT AND PARKING CALCULATIONS FOR 1ST FLOOR OFFICE SPACE 08-07-2023	CDL	ADP
03-22-2023	REVISED PER CME LETTER DATED 03-01-2023	REQ	ADP
03-22-2023	REVISED PER RVE LETTER DATED 03-09-2023	TS/GOL	ADP
01-12-2023	ADDED CVSE PARKING AS PER REQUIREMENT	CDL	ADP
04-04-2022	REVISED PER ABERDEEN PLANNING BOARD MEETING DATED 03-23-2022	DCS	ADP
11-17-2020	REVISED PER ABERDEEN PLANNING BOARD LETTER DATED 08-20-2022	DCS	ADP
DATE	DESCRIPTION	ENGINEER	CAD

MAJOR SITE PLAN
TREE REMOVAL & REPLACEMENT PLAN
 KEN GARDENS APARTMENTS
 BLOCK 220 LOTS 4, 5 & 6
 ABERDEEN TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY

NEW LINES
 LAND CONSULTANTS LLC
 NEW JERSEY LICENSE # 24628264200

315 Monmouth Avenue
 Suite 205
 Lakewood, New Jersey 08701
 Phone (732) 994-4900
 Fax (732) 994-4999

GLENN D. LINES, P.E., P.P.
 LICENSED PROFESSIONAL ENGINEER AND PROFESSIONAL PLANNER
 STATE OF NEW JERSEY
 8/7/2023
 DATE

PROJECT NO: 19094
 DRAWN BY: ADP
 SCALE: 1" = 20'
 DATE: 7-9-2019
 SHEET: 19 OF 22