# PRELIMINARY AND FINAL AND SITE AND SUBDIVISION PLAN

FOR

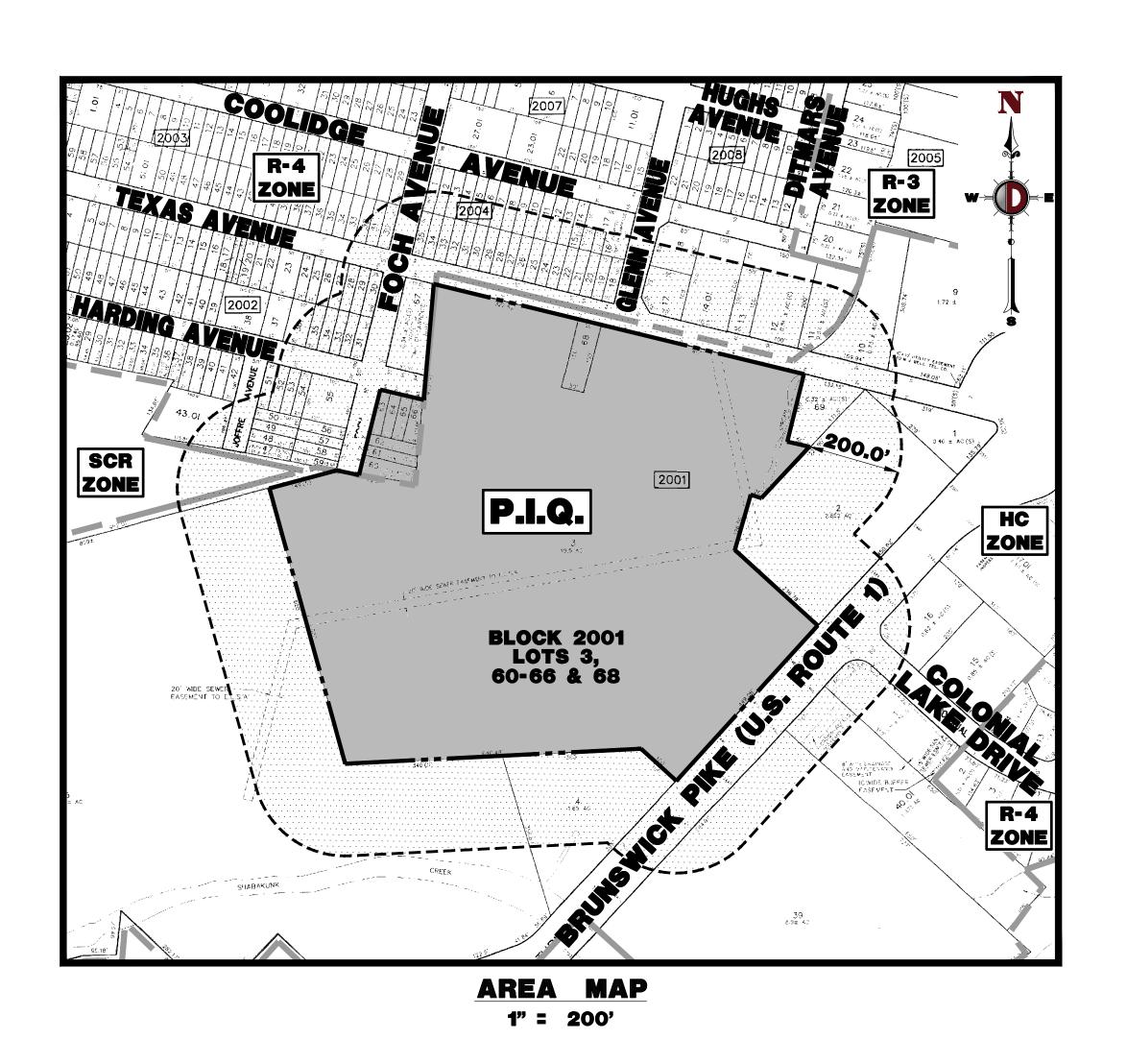
## RPM DEVELOPMENT, LLC PROPOSED RESIDENTIAL DEVELOPMENT

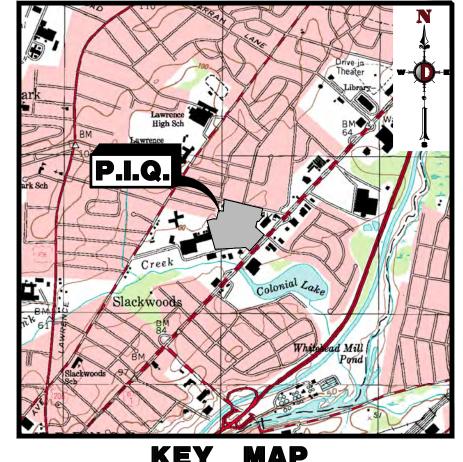
BLOCK 2001, LOTS 3, 60-66 & 68; TAX MAP SHEETS #20 & 20.01- LATEST REV. DATED 1-1-2001 2495 BRUNSWICK PIKE (A.K.A. ALT. ROUTE 1)

## 200' PROPERTY OWNERS LIST

	200	PHUP	ERIT OM	NENS	LI3 I	
PROPERTY OWNER	BLOCK	<u>LOT</u>	PROPERTY OWNER	BLOCK	<u>LOT</u>	ALCO TO DE NOTICIED.
NJ CONFERENCE/SEVENTH-DAY AI 2303 BRUNSWICK AVE LAWRENCEVILLE, NJ 08648	DVENTIST 1502	1	DARDZINSKI, BENIAMEN & WIESLAW/ 109 TEXAS AVE LAWRENCEVILLE, NJ 08648	2002	27	ALSO TO BE NOTIFIED:  CORPORATE SECRETARY EWING—LAWRENCE SEWERAGE AUTHORITY 600 WHITEHEAD ROAD
TOWNSHIP OF LAWRENCE 2207 LAWRENCEVILLE RD. LAWRENCEVILLE, NJ 08648	1502 1506	2 25_27	HAMPTON, ANNE TRUEHART 101 TEXAS AVE LAWRENCEVILLE, NJ 08648	2002	28-33	LAWRENCEVILLE, NJ 08648  CORPORATE SECRETARY PUBLIC SERVICE ELECTRIC & GAS COMPANY
ORANTES, CECILIO I & ELODIA C	2001 2101	2 25-27 10, 67 6	THE HARDING AVE PRTNER C/O M PO BOX 5271 TRENTON, NJ 08638.0271	MANN 2002	34, 35	80 PARK PLAZA, 4B NEWARK, NJ 07101 N.J. AMERICAN WATER
326 PRESIDENT AVE LAWRENCEVILLE, NJ 08648 FELLERS, GARY LEE	1506	21	TRUSZKOWSKI, LECH & EWA 11 MILLBROOK LANE LAWRENCEVILLE, NJ 08648	2002	36	1025 LAUREL OAK ROAD VOORHEES, NJ 08043 ATTN: DONNA SHORT
B36 PRESIDENT AVE LAWRENCE TOWNSHIP, NJ 08648 CALLE, MOISES	1506	22–24	WALEIKO, STEPHEN JR. & SHERRY 101 COOLIDGE AVENUE LAWRENCEVILLE, NJ 08648	2003	28, 29	ELIZABETHTOWN GAS COMPANY ONE ELIZABETHTOWN PLAZA THIRD FLOOR EAST UNION, NJ 07083—1975
817 LAKE DR LAWRENCEVILLE, NJ 08648 DORNER, CHARLES & DEBORAH	1506	28-32	BLOOM, TOMMIE & HAZEL 100 TEXAS AVE LAWRENCEVILLE, NJ 08648	2003	30, 31	CORPORATE SECRETARY TRENTON WATER WORKS PO BOX 528
BOT LAKE DR LAWRENCEVILLE, NJ 08648 HOARN, CANDIDA	1506	33	SIVARAMAMOORTHY, T & GIRITHARI 110 TEXAS AVE LAWRENCEVILLE, NJ 08648	2003	32.01	TRENTON, NJ 08604  CORPORATE SECRETARY VERIZON
2247 PRINCETON PK LAWRENCEVILLE, NJ 08648	1802 AN RETH	22	THOMAS, CLYDE S UX 94 TEXAS AVE LAWRENCEVILLE, NJ 08648 -35	2001	1-4, 32	540 BROAD STREET NEWARK, NJ 07101 AQUA WATER COMPANY
CICCHINO, FEDERICO I & BUCHAN. 51 DEVON AVE LAWRENCEVILLE, NJ 08648 SEABRIDGE, DEBRA	1803	23	WAY, SUZANNE 89 COOLIDGE AVE LAWRENCE, NJ 08648	2004	5–8	2875F ERIAL ROAD ERIAL, NJ 08081 ATTN: JAMES BARBATO
JAVALERIE LANE LAWRENCEVILLE, NJ 08648 AUGUSTYNIAK, GRZEGORZ & ROSZ	1803	24	KUBALA, DONALD J & JOAN E 8 RANDI WAY	2004	9-14,	GENERAL MANAGER COMCAST CABLEVISION 940 PROSPECT STREET TRENTION, NJ 08618
131 GRAF AVENUE LAWRENCE TOWNSHIP, NJ 08648 JOHNSON, MAUREEN	1803	25	TITUSVILLE, NJ 08560 22-27 ERKOBONI, RICHARD JR & MINDY 68 TEXAS AVE	2004	<i>3</i> -1 <del>1,</del>	RCN CORPORATION 105 CARNEGIE CENTER PRINCETON, NJ 08540
2269 PRINCETON PK AWRENCEVILLE, NJ 08648 GROOVER, JANET E	1803	26	LAWRENCEVILLE, NJ 08648  SURILA, MAMTA & FNU CHAMAN LA 82 TEXAS AVE	2004 L	15–21	CORPORATE SECRETARY AT&T 1 AT&T WAY
2269 PRINCETON PK LAWRENCEVILLE, NJ 08648 LOPES, EVERSON & ANA	1803	27	LAWRENCEVILLE, NJ 08648  PUBLIC SERVICE E&G PROPERTY TA 80 PARK PLAZA 6H FLOOR NEWARK, NJ 07102-4194	2004 AXES	28–31	BEDMINSTER, NJ 07921
2261 PRINCETON PIKE AWRENCEVILLE, NJ 08648 LEMMON, JOHN T UX	1803	28	NEWARK, NJ 07102-4194 JHAKU-HP, LLC 8 WELLESLEY COURT	2005	9	MERCER COUNTY PLANNING BOARD 640 SOUTH BROAD STREET 26 <sup>TH</sup> FLOOR PHILADELPHIA, PA 19103–1699 CORPORATE SECRETARY
2 IRWIN PL LAWRENCEVILLE, NJ 08648	1803	29	PRINCETON JUNCTION, NJ 08550 CRUZ, ROSA MARIA 36 TEXAS ROAD	2005	10	JERSEY CENTRAL POWER & LIGHT 300 MADISON AVENUE MORRISTOWN, NJ 07962
LUKOIL NORTH AMERICAN LLC 505 FIFTH AVE 90017 PLAPINGER, WALLACE R ALS	2001	1	LAWRENCEVILLE, NJ 08648  BSA OIL CORP PO BOX 5312	2005	11, 12	SUN PIPE LINE L.P. ATTN: R-O-W DEPARTMENT 1801 MARKET STREET 26 <sup>1</sup> H FLOOR PHILADELPHIA, PA 19103—1699
PO BOX 5031 TRENTON, NJ 08638	2001	6	TRENTON, NJ 08638  COMMUNITY OPTIONS PROPERTIES I	2005 NC	13	PHILADELPHÍA, PA 19103–1699  CORPORATE SECRETARY  TRANSCONTINENTAL CAS PIPE LINE CORPORA
SHAROPOV, ULMAS & NASIROVA, [ 2250 PRINCETON PIKE LAWRENCEVILLE, NJ 08648 POLISH NAT CATH CHUR C/O M F	2001	7	16 FARBER ROAD PRINCETON, NJ 08540 JOHNSON, JOSEPH & YVONNE 56 TEXAS AVE	2005	14.01	2800 POST OAK BOULEVARD HOUSTON, TX 77056 SUNOCO PIPE LINE, L.P.
100 ELTON AVE TRENTON, NJ 08620	2001	11	LAWRENCEVILLE, NJ 08648  ARRIOLA ESTUARDO & LILLIAN	2005	17	RIGHT-OF-WAY DEPARTMENT MONTELLO COMPLEX 525 FRITZTOWN ROAD SINKING SPRING, PA 19608
ERDIE, JULIUS MICHAEL JR. 29 FAIRFIELD AVE LAWRENCEVILLE, NJ 08648	2001	13	1145 GLENN AVE LAWRENCEVILLE, NJ 08648 2470 ROUTE 1, LLC 15 HAWTHORNE DR. PRINCETON JCT, NJ 08550	2005 2101	18 1, 40.01	COMMISSIONER N.J. DEPARTMENT OF TRANSPORTATION 1035 PARKWAY AVENUE CN 600
ERDIE, J M JR C/O HOLLYWOOD 29 FAIRFIELD AVE AWRENCEVILLE, NJ 08648	2001	14	SHEFT ASSOCIATES INC. 2420 BRUNSWICK PIKE LAWRENCEVILLE, NJ 08648	2101	39	TRENTON, NJ 08625
ZAJAC, SALLY L 2330 PRINCETON PK AWRENCEVILLE, NJ 08648	2001	15	GLICK, RONALD UX C/O HOWCO M 7 GORDON AVE	GT.		
THAT'S A LOVELY ACCENT YOU HA 215 S LACIENEGA BLVD. #203 BEVERLEY HILLS, CA 90211	VE URB 2001	17	JOANEM, JOLITHA 2310 BRUNSWICK AVE		1	
KOWAL, TADEUSZ 45 JOFFRE AVE AWRENCEVILLE, NJ 08648	2001	43.01	LAWRENCEVILLE, NJ 08648  PETRINE PROPERTIES, LLC 2304 BRUNSWICK AVE	2102	2, 3	
SHARMA, KULBHUSHAN 38 JOFFRE AVE AWRENCEVILLE, NJ 08648 56–59	2001	47–50,	LAWRENCEVILLE, NJ 08648  2480 BRUNSWICK, LLC 5522 FT. HAMILTON PARKWAY	2102	4	
BURKE, TIMOTHY B & BRENDA S I JOFFRE AVE LAWRENCEVILLE, NJ 08648	2001	51–54	BROOKLYN, NY 11219 NAGARAJ, CHAM V ATTN: LISA A ZO 1650 MARKET ST, STE 1800 PHILA, PA 19103-7395		16	
COOPER, STELLA 101 HARDING AVE			PHILA, PA 19103–7395  2500 BRUNSWICK, LLC	2201	17.01	

TOWNSHIP OF LAWRENCE MERCER COUNTY, NEW JERSEY





**KEY MAP**1" = 2000'

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ZONING BOARD OF ADJUSTMENT OF THE TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW J

CHAIRMAN DATE

SECRETARY DATE

BOARD ENGINEER DATE

PREPARED BY

DYNAMIC ENGINEERING CONSULTANTS, P.C.

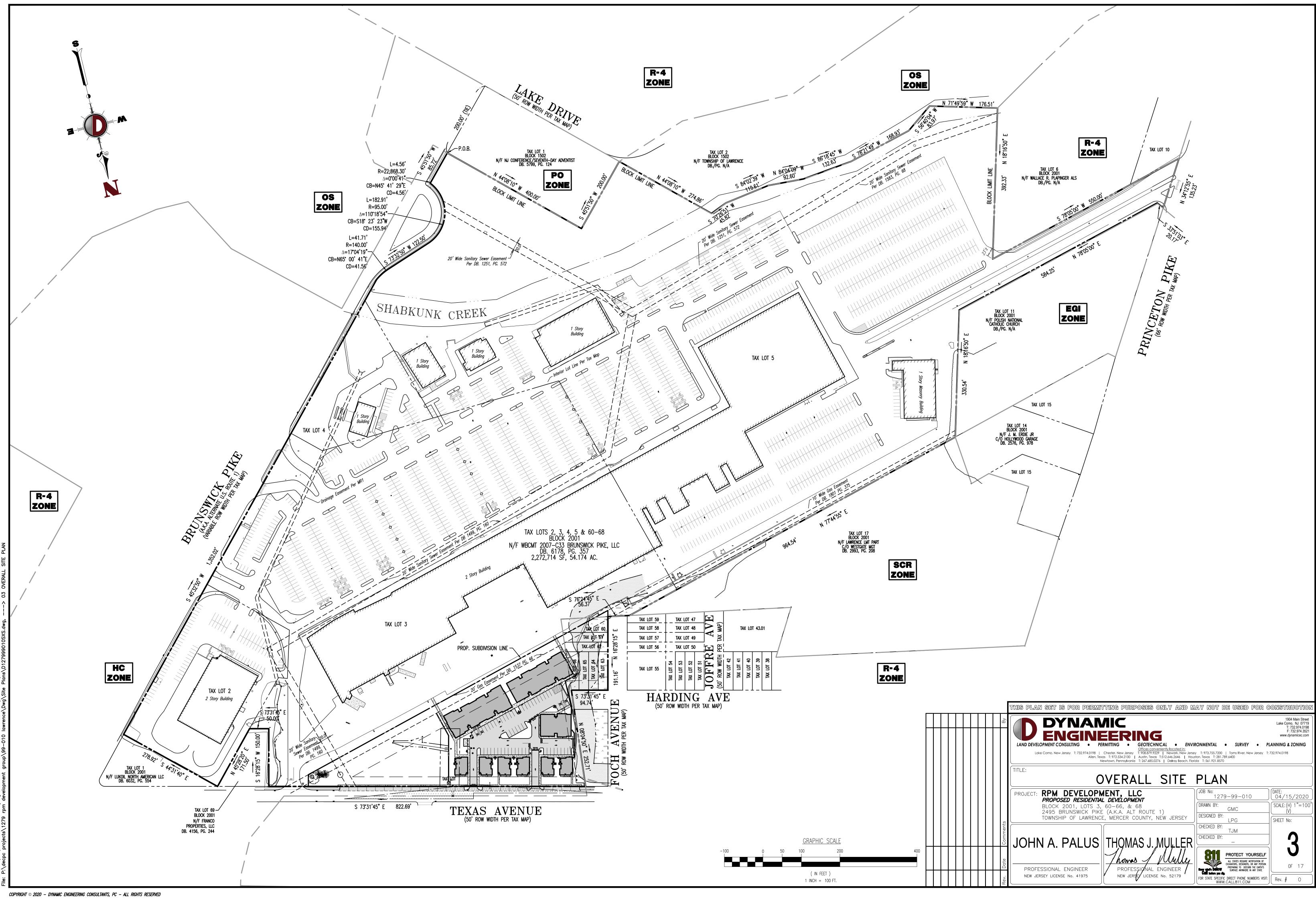
1904 MAIN STREET
LAKE COMO, NJ 07719

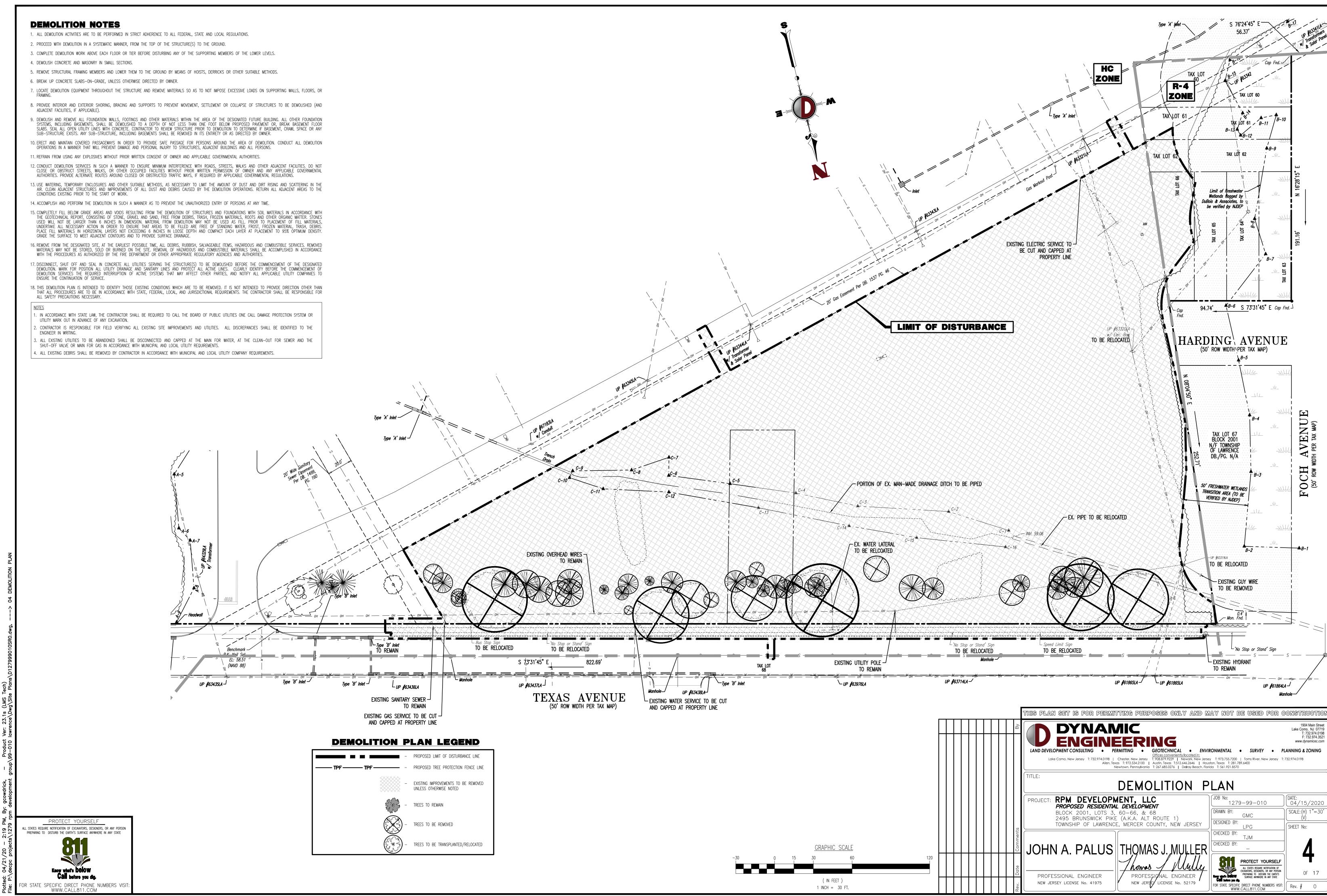
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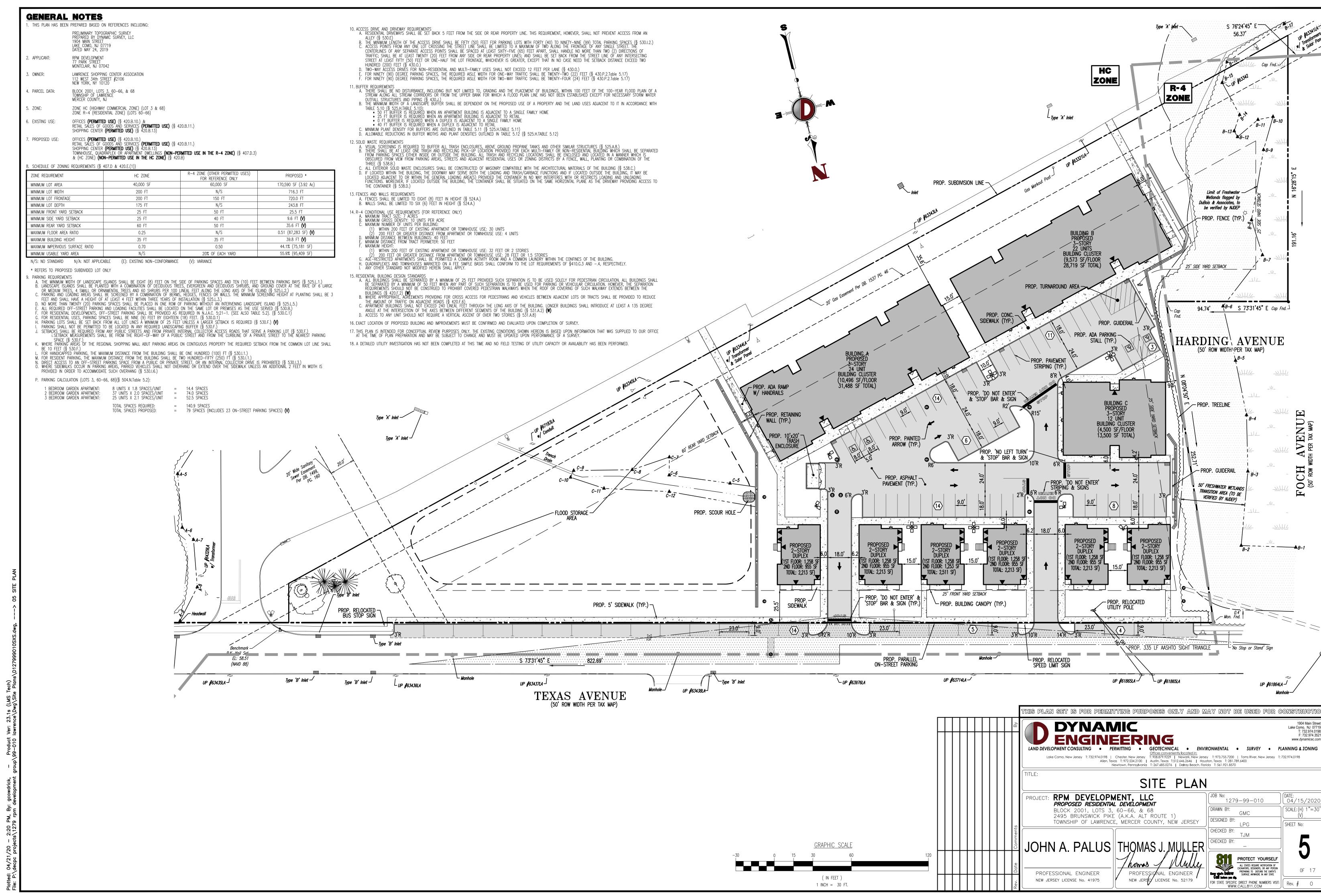
By	DYNAMIC  LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVII  Consider the conveniently located in:  T: 732.974.0198   Chester, New Jersey   T: 908.879.9229   Newark, New Jersey   Allen, Texas   T: 972.534.2100   Austin, Texas   T: 512.646.2646   House   Newtown, Pennsylvania   T: 267.685.0276   Delray Beach, Flori	y T: 973.755.7200   Toms River, New Jersey T: ston, Texas T: 281.789.6400	1904 Main Street Lake Como, NJ 07719 T: 732.974.0198 F: 732.974.3521 www.dynamicec.com LANNING & ZONING 732.974.0198
	COVER SHEE  PROJECT: RPM DEVELOPMENT, LLC  PROPOSED RESIDENTIAL DEVELOPMENT  BLOCK 2001, LOTS 3, 60–66, & 68  2495 BRUNSWICK PIKE (A.K.A. ALT ROUTE 1)  TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW JERSEY	JOB No: 1279-99-010  DRAWN BY: GMC DESIGNED BY: LPG	DATE: 04/15/2020  SCALE: (H) AS (V) SHOWN  SHEET No:
Comments	JOHN A. PALUS THOMAS J. MULLER	CHECKED BY: TJM	
. Date	PROFESSIONAL ENGINEER  NEW JERSEY LICENSE No. 41975  PROFESSIONAL ENGINEER  NEW JERSEY LICENSE No. 52179	ALL STATES REQUIRE NOTIFICATION OF EXCAVATIONS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE	0F 17

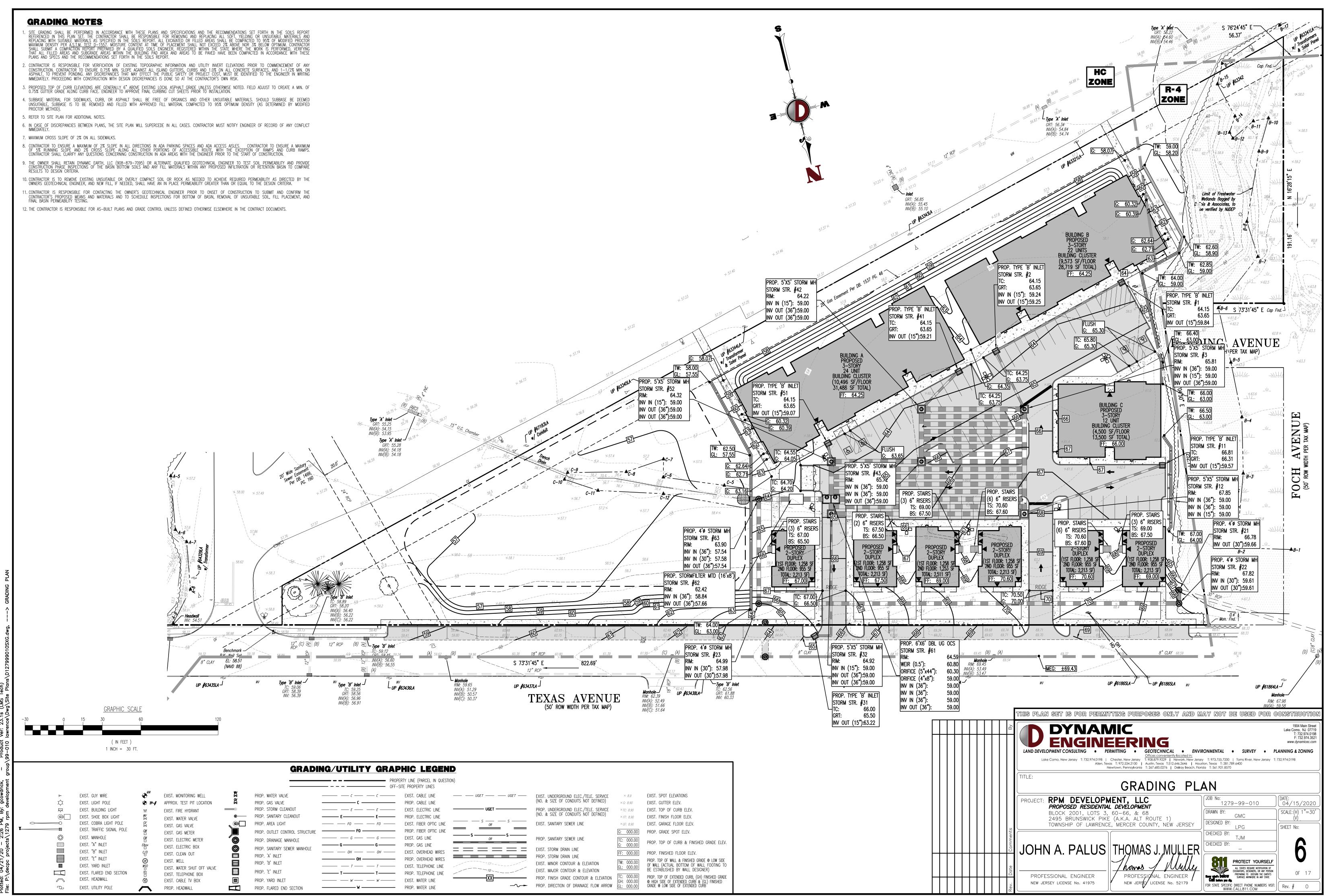
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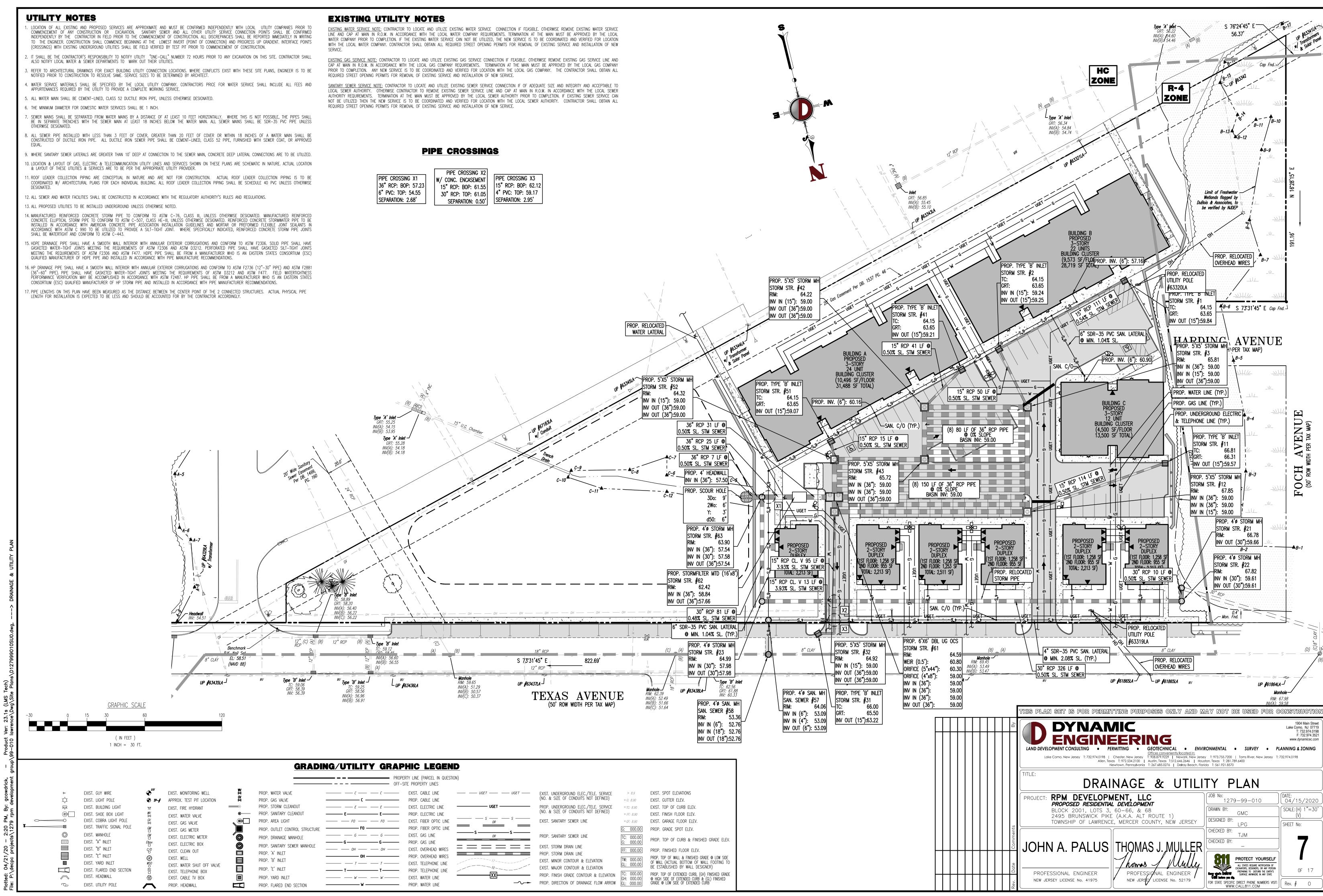


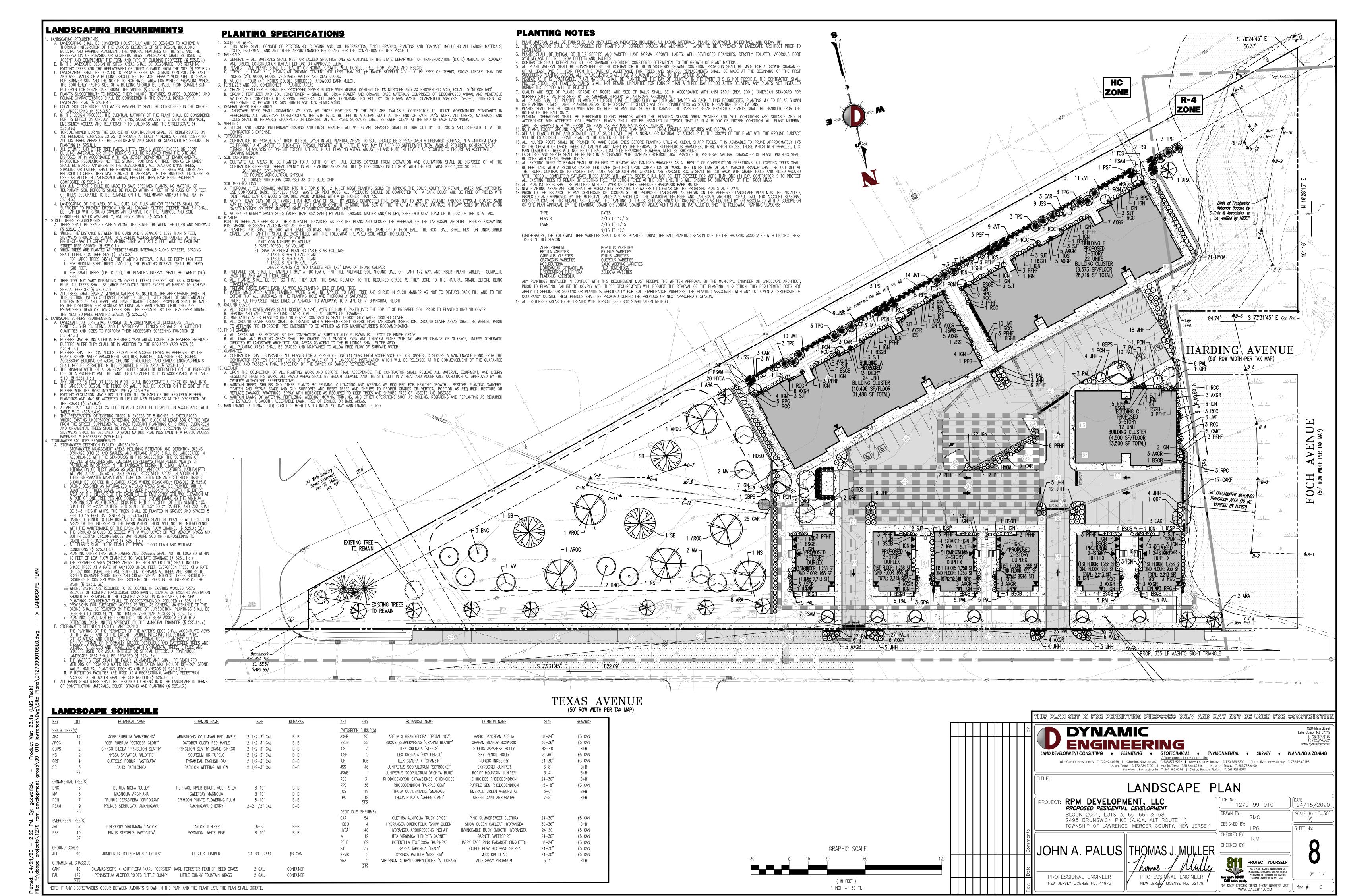












#### GENERAL NOTES

- 1. THIS LIGHTING PLAN ILLUSTRATES ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINARIES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- 2. ALL EXISTING CONDITIONS LIGHTING LEVELS ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES AND/OR ACTUAL FIELD MEASUREMENTS TAKEN WITH A LIGHT METER. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHTING LEVELS MAY DIFFER AND THE LIGHTING LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED AS APPROXIMATE.
- 3. CONDUITS SHALL BE INSTALLED A MINIMUM OF 2 FEET BEHIND GUIDERAIL POSTS.
- 4. ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE.
- 5. REFER TO ARCHITECTURAL PLANS FOR LIGHTING DIAGRAM.

#### LIGHTING REQUIREMENTS

- A. SUFFICIENT LIGHTING SHALL BE PROVIDED ON EACH SITE OR ALONG ROADWAYS TO ENSURE THE SECURITY OF PROPERTY AND TO PROTECT THE SAFETY OF PERSONS BETWEEN THE HOURS OF SUNSET AND SUNRISE WHEN THE ESTABLISHMENT OR FACILITY IS IN USE (§ 527.A.1.)
- B. LIGHTING SHALL BE SO DESIGNED TO AVOID THE CREATION OF HAZARDS TO MOTORISTS AND PEDESTRIANS OR NUISANCE TO ADJOINING PROPERTY OWNERS OR
- RESIDENTS. LIGHTING DIRECTED TOWARDS THE SKY SHALL BE DESIGNED TO PREVENT INTERFERENCE WITH COMMERCIAL AVIATION ROUTES (\$ 527.A.2.)

  i. SECURITY LIGHTING DESIGN FOR COMMERCIAL DEVELOPMENTS SHALL EMPLOY TIMERS ON ALL OR A PORTION OF THE SITE LIGHTING THAT REDUCES THE AVERAGE ILLUMINATION TO THE MINIMUM REQUIREMENTS OF THIS ORDINANCE WITHIN ONE HOUR AFTER CLOSE OF BUSINESS OR BEFORE MIDNIGHT, WHICHEVER OCCURS
- ii. SAFETY LIGHTING DESIGN SHALL EMPLOY MOTION SENSORS SO THAT ILLUMINATION OCCURS ONLY WHEN SOMEONE IS IN THE IMMEDIATE AREA (§ 527.A.2.b.)
  iii. DISPLAY, ADVERTISING AND SPECIALTY LIGHTING, EXCLUDING INTERIOR ILLUMINATED OR BACKLIT IDENTIFICATION SIGNAGE, SHALL BE TURNED OFF AT OR BEFORE
- MIDNIGHT (§ 527.A.2.c.)

  C. LIGHTING LEVELS, LAMP COLOR, AND FIXTURE TYPE SHALL BE CONSISTENT THROUGHOUT THE PARCEL IN QUESTION AND SHALL COMPLEMENT BUILDING ARCHITECTURE AND LANDSCAPING. LIGHTING SHALL BE DESIGNED TO MINIMIZE ENERGY AND MAINTENANCE REQUIREMENTS AND SHALL COMPLY WITH THE U.S. ENERGY POLICY ACT OF
- 1992 AS IT MAY BE AMENDED OR SUPERSEDED (§ 527.A.3.)

  D. EXTERIOR LIGHTING NOT BUILDING MOUNTED SHALL BE SUPPLIED BY ELECTRICITY FROM UNDERGROUND CABLING (§ 527.A.4.)
- E. THE MINIMUM ILLUMINATION FOR SURFACE PARKING WITH LOW ACTIVITY SHALL BE 0.5 FOOTCANDLES FOR VEHICULAR TRAFFIĆ, 0.2 FOOTCANDLES FOR PEDESTRIAN SAFETY, AND 0.8 FOOTCANDLES FOR PEDESTRIAN SECURITY (§ 527.C.TABLE 5.13)
- F. THE MINIMUM ILLUMINATION FOR SURFACE PARKING WITH MEDIUM ACTIVITY SHALL BE 1.0 FOOTCANDLES FOR VEHICULAR TRAFFIC, 0.6 FOOTCANDLES FOR PEDESTRIAN SAFETY, AND 2.0 FOOTCANDLES FOR PEDESTRIAN SECURITY (§ 527.C.TABLE 5.13)

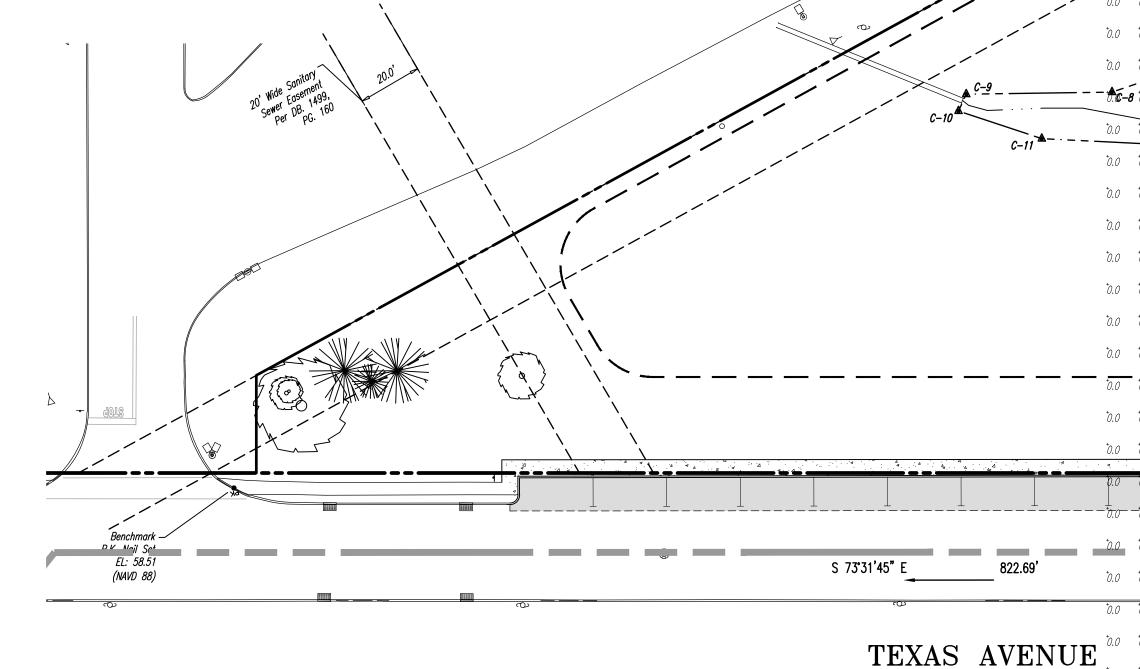
  G. THE MINIMUM ILLUMINATION FOR SURFACE PARKING WITH HIGH ACTIVITY SHALL BE 2.0 FOOTCANDLES FOR VEHICULAR TRAFFIC, 0.9 FOOTCANDLES FOR PEDESTRIAN
- SAFETY, AND 4.0 FOOTCANDLES FOR PEDESTRIAN SECURITY (\$ 527.C.TABLE 5.13)
  H. LIGHTING SHALL BE PROVIDED BY FIXTURES WITH A MOUNTING HEIGHT NOT MORE THAN 25 FEET OR THE HEIGHT OF THE BUILDING, WHICHEVER IS LESS. MEASURED
- FROM THE GROUND LEVEL TO THE CENTERLINE OF THE LIGHT SOURCE (\$ 527.C.1.)

  I. ANY OTHER OUTDOOR LIGHTING SUCH AS BUILDING AND 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 A DETERMINATION OF THE EFFECTS UPON ADJACENT PROPERTIES, TRAFFIC SAFETY AND OVERHEAD SKY GLOW. THE OBJECTIVES OF THESE SPECIFICATIONS ARE TO MINIMIZE UNDESIRABLE OFF-PREMISES EFFECTS. NO LIGHT SHALL SHINE INTO BUILDING WINDOWS, OR ONTO STREETS AND DRIVEWAYS SO AS TO INTERFERE WITH OR DISTRACT DRIVER VISION (§ 527.C.2.)
- J. WALL MOUNTED FIXTURES ARE ONLY PERMITTED IF DIRECTED INTO A SITE AND NOT POSITIONED TOWARDS NEIGHBORING PROPERTIES OR PUBLIC STREETS (§ 527.C.2.)

  K. THE RATIO OF AVERAGE ILLUMINATION, MEASURED IN FOOTCANDLES, TO MINIMUM ILLUMINATION, AS REQUIRED IN TABLE 5.13 SHALL NOT EXCEED 4 TO 1. THE MAXIMUM ILLUMINATION PROVIDED ON ANY SITE SHALL NOT EXCEED THE MINIMUM ILLUMINATION BY MORE THAN A RATIO OF 10 TO 1 (§ 527.C.3.)

	MINIMUM AVERAGE LEVEL	AVERAGE LEVELS FOR SPECIAL PEDESTRIAN SAFETY		
WALKWAY AND BIKEWAY CLASSIFICATIONS	FOOTCANDLES MOUNTING HEIGHTS (9 TO 15 FT) FOOTCANDLES		MOUNTING HEIGHTS (15 TO 25 FT) FOOTCANDLES	
SIDEWALKS (ROADSIDE) AND TYPE A BIKEWAYS				
COMMERCIAL AREAS	0.9	2.0	4.0	
INTERMEDIATE AREAS	0.6	1.0	2.0	
RESIDENTIAL AREAS	0.2	0.4	0.8	
SIDEWALKS DISTANT FROM ROADWAYS AND TYPE B BIKEWAYS				
PARK, WALKWAYS AND BIKEWAYS	0.5	0.6	1.0	
PEDESTRIAN TUNNELS	4.0	5.0	0.0	
PEDESTRIAN OVERPASSES	0.3	0.4	0.0	
PEDESTRIAN STAIRWAYS	0.6	0.8	0.0	

M. SITE LIGHTING NOT USED FOR SECURITY PURPOSES IS TO BE TURNED OFF ONE HOUR AFTER CLOSE OF BUSINESS OR MIDNIGHT.



(50' ROW WIDTH PER TAX MAP)

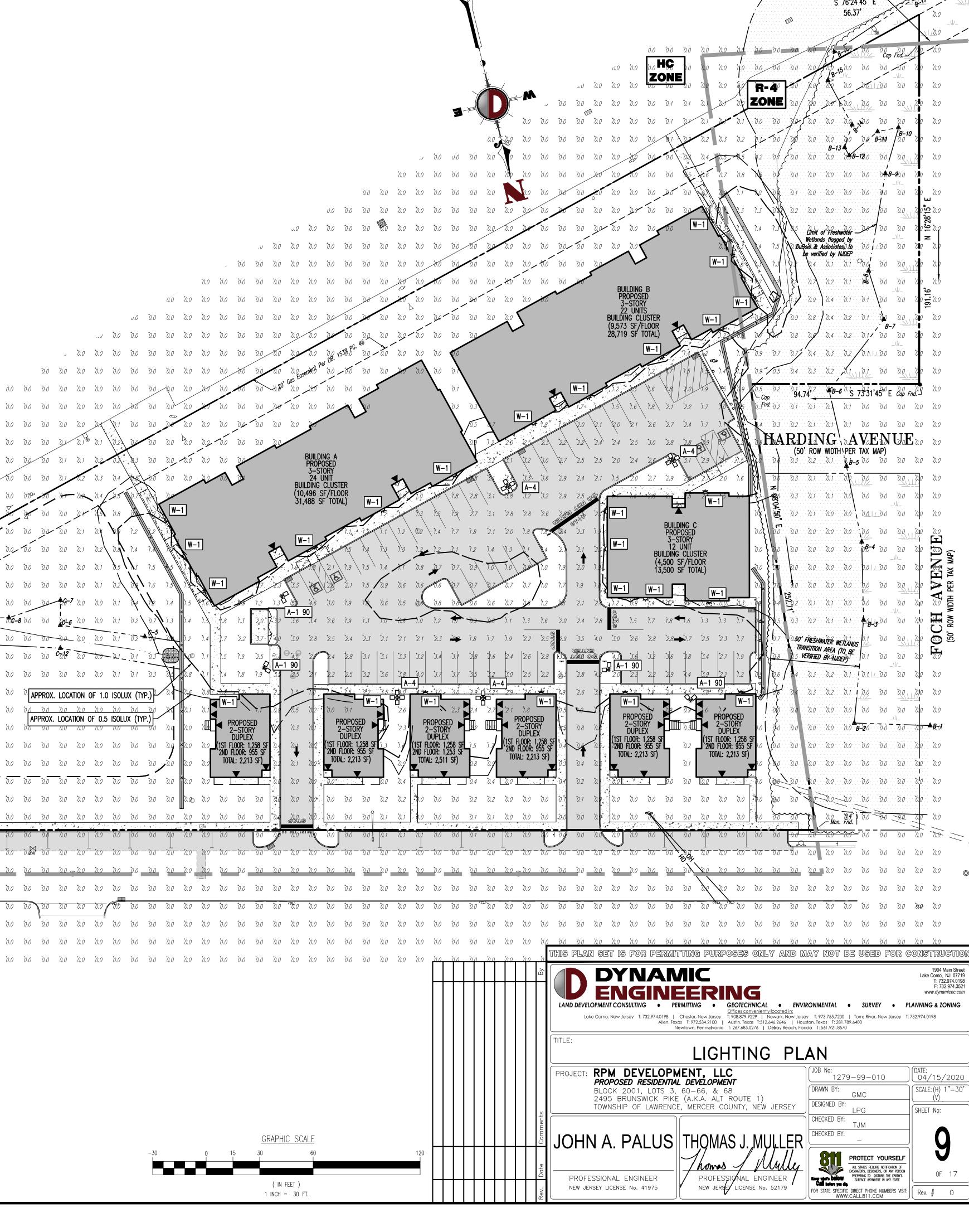
LIGHTING LUMINAIRE SCHEDULE							
SYMBOL	QUANTITY	LABEL	MOUNTING HEIGHT	ARRANGEMENT	MANUFACTURER	IES FILE	
早	25	W-1	20'	SINGLE	PROGRESS LIGHTING, HUBBELL	PCOWC-20LED-20, MOUNTED 20' HIGH ON BUILDING	
	4	A-1 90	20'	2 @ 90°	HUBBELL LIGHTING INC, DBA BEACON PRODUCTS	URB-XXX-21-24L-27-3K7-2	
	4	A-4	20'	4 @ 90°	HUBBELL LIGHTING INC, DBA BEACON PRODUCTS	URB-XXX-21-24L-27-3K7-3	

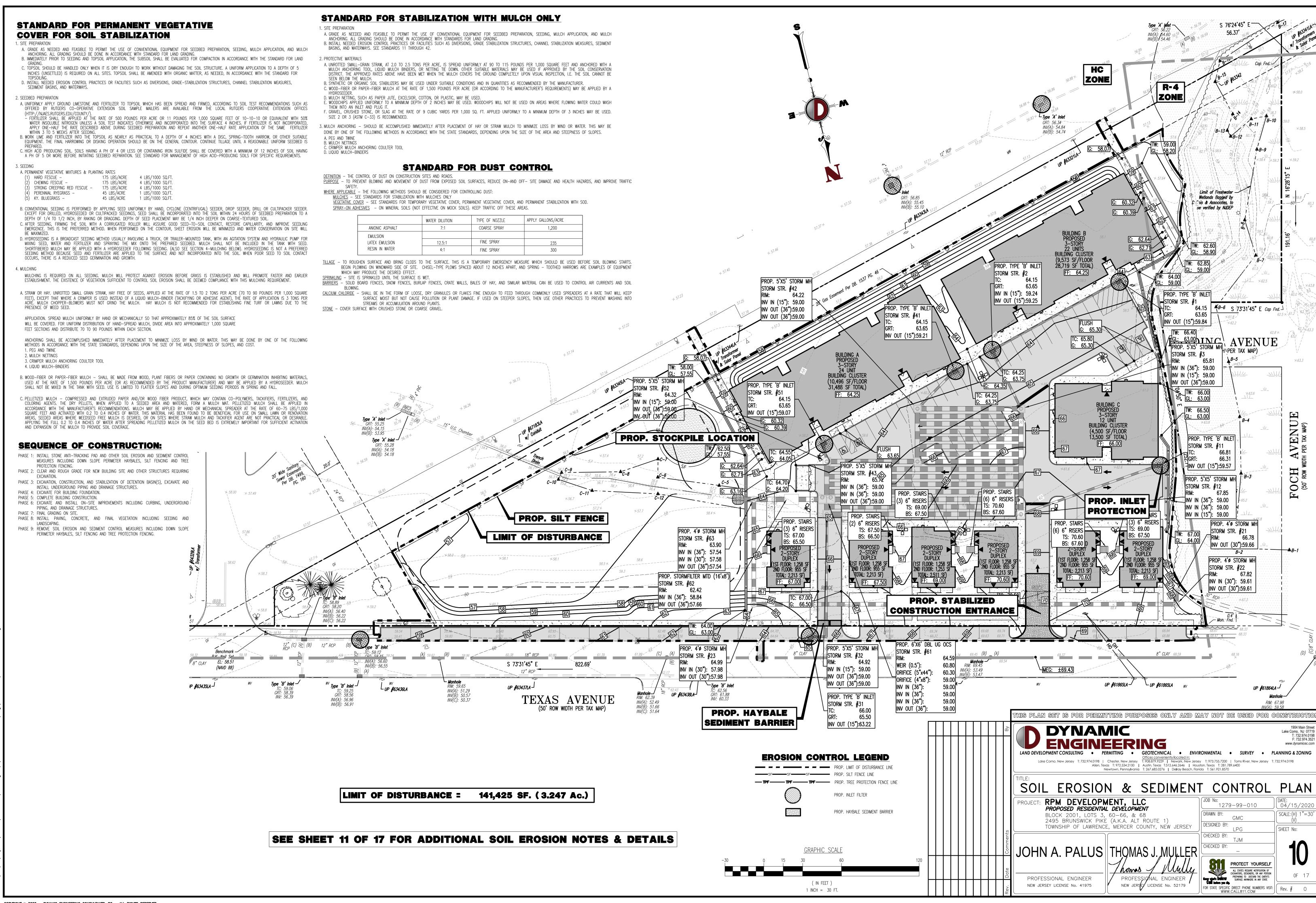
### ISO CURVES ARE MAINTAINED AND SHOWN AT 0.5 AND 0.1 FC.

(FM) — FLUSH MOUNT FOUNDATION (PED) — PEDESTAL FOUNDATION

THE CALCULATIONS SHOWN WERE MADE UTILIZING ACCEPTED PROCEDURES OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. VARIATIONS IN LAMP OUTPUT, BALLAST OUTPUT, LINE VOLTAGE, DIRT DEPRECIATION, AND OTHER FACTORS MAY AFFECT ACTUAL RESULTS. UNLESS OTHERWISE STATED, ALL RESULTS ARE MAINTAINED VALUES, UTILIZING ACCEPTED LIGHT LOSS FACTORS (LLF).

STATISTICAL AREA SUMMARY								
LABEL	AVERAGE	MAXIMUM	MINIMUM	AVG./MIN.	MAX./MIN.			
PIQ	0.57	6.0	0.0	N.A	N.A			
PAVEMENT AREA	2.02	6.0	0.0	N.A	N.A			





#### MERCER COUNTY SOIL CONSERVATION DISTRICT NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

- 1. THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO STARTING LAND DISTURBANCE ACTIVITY. NOTICE MAY BE MAILED, FAXED OR EMAILED
- PHONE: 609-586-9603 FAX: 609-586-1117 ÉMAIL: PAULS1MERCER@AOL.COM 2. IF APPLICABLE TO THIS PROJECT, THE OWNER SHOULD BE AWARE OF HIS OR HER OBLIGATION TO FILE FOR A NJPDES CONSTRUCTION ACTIVITY STORMWATER 5G3 PERMIT
- (NJG0088323) VIA THE NJDEP ONLINE PERMITTING SYSTEM (WWW.NJ.GOV/DEP/ONLINE) AND TO MAINTAIN THE ASSOCIATED BEST MANAGEMENT PRACTICES AND STORMWATER POLLUTION PREVENTION PLAN SELF-INSPECTION LOGBOOK ONSITE AT ALL TIMES. THIS PERMIT MUST BE FILED PRIOR TO THE START OF SOIL DISTURBANCE. THE ONLINE APPLICATION PROCESS WILL REQUIRE ENTRY OF AN SCD CERTIFICATION CODE, WHICH IS PROVIDED BY THE SOIL CONSERVATION DISTRICT UPON CERTIFICATION OF THE SOIL
- 3. THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.
- 4. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, INCLUDING AN INCREASE IN THE LIMIT OF DISTURBANCE, WILL REQUIRE THE SUBMISSION O REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION & SEDIMENT
- 5. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.
- 6. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE AS OUTLINED WITHIN THE SEQUENCE OF CONSTRUCTION ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. 7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NJ. IF LANGUAGE CONTAINED WITHIN ANY OTHER

PERMIT FOR THIS PROJECT IS MORE RESTRICTIVE THAN (BUT NOT CONTRADICTORY TO) WHAT IS CONTAINED WITHIN THESE NOTES OR ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, THEN THE MORE RESTRICTIVE PERMIT REQUIREMENTS SHALL BE FOLLOWED.

- 8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A 1½" TO 2½" CLEAN STONE TRACKING PAD AT ALL CONSTRUCTION DRIVEWAYS IMMEDIATELY AFTER INITIAL SITE DISTURBANCE, WHETHER IDENTIFIED ON THE CERTIFIED PLAN OR NOT. THE WIDTH SHALL SPAN THE FULL WIDTH OF EGRESS, AND LENGTH SHALL BE 50 FT. OR MORE, DEPENDING ON SITE CONDITIONS AND AS REQUIRED BY THE STANDARD. THIS SHALL INCLUDE INDIVIDUAL LOT ACCESS POINTS WITHIN RESIDENTIAL SUBDIVISIONS. IF THE EGRESS IS TO A COUNTY ROAD, THEN A 20 FT. LONG PAVED TRANSITION SHALL BE PROVIDED BETWEEN THE EDGE OF PAVEMENT AND THE STONE ACCESS PAD.
- 9. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING, PROVIDED THAT ALL OTHER REQUIREMENTS RELATED TO DETENTION BASINS, SWALES AND THE SEQUENCE OF CONSTRUCTION HAVE BEEN MET.
- 10. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 14 DAYS AND NOT SUBJECT TO CONSTRUCTION ACTIVITY WILL IMMEDIATELY RECEIVE TEMPORARY STABILIZATION. IF THE SEASON PREVENTS ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER, OR IF THE AREA IS NOT TOPSOILED, THEN THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS. SLOPED AREAS IN EXCESS OF 3H:1V SHALL BE PROVIDED WITH EROSION CONTROL BLANKETS. CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES, ROADWAY EMBANKMENTS, ENVIRONMENTALLY SENSITIVE AREAS) WILL RECEIVE TEMPORARY STABILIZATION IMMEDIATELY AFTER INITIAL DISTURBANCE OR ROUGH GRADING.
- 11. ANY STEEP SLOPES (I.E. SLOPES GREATER THAN 3:1) RECEIVING PIPELINE OR UTILITY INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS. 12. PERMANENT VEGETATION SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING AND TOPSOILING. ALL AGRONOMIC REQUIREMENTS CONTAINED WITHIN THE STANDARDS AND ON THE CERTIFIED PLAN SHALL BE EMPLOYED. MULCH WITH BINDER, IN ACCORDANCE WITH THE STANDARDS, SHALL BE USED ON ALL SEEDED AREAS. SAVE ALL TAGS AND/OR BAGS USED FOR SEED, LIME AND FERTILIZER, AND PROVIDE THEM TO THE DISTRICT INSPECTOR TO VERIFY THAT MIXTURES AND RATES MEET THE STANDARDS.
- 13. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, THEN NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- 14. DURING THE COURSE OF CONSTRUCTION, SOIL COMPACTION MAY OCCUR WITHIN HAUL ROUTES, STAGING AREAS AND OTHER PROJECT AREAS. IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING, COMPACTED SURFACES SHOULD BE SCARIFIED 6" TO 12" IMMEDIATELY PRIOR TO TOPSOIL APPLICATION. THIS WILL HELP ENSURE A GOOD BOND BETWEEN THE TOPSOIL AND SUBSOIL. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
- 15. PRIOR TO SEEDING, TOPSOIL SHALL BE WORKED TO PREPARE A PROPER SEEDBED. THIS SHALL INCLUDE RAKING OF THE TOPSOIL AND REMOVAL OF DEBRIS AND STONES, ALONG WITH OTHER REQUIREMENTS OF THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION.
- 16. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE BURIED WITH LIMESTONE IN ACCORDANCE WITH THE STANDARD AND BE COVERED WITH A MINIMUM OF 12" OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO TOPSOIL APPLICATION AND SEEDBED PREPARATION. IF THE AREA IS TO RECEIVE TREE OR SHRUB PLANTINGS, OR IS LOCATED ON A SLOPE, THEN THE AREA SHALL BE COVERED WITH A MINIMUM OF 24"
- 17. MULCHING TO THE STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONAL ROC'S ARE ONLY ISSUED WHEN THE SEASON PROHIBITS EDING. PERMANENT STABILIZATION MUST THEN BE COMPLETED DURING THE OPTIMUM SEEDING SEASON IMMEDIATELY FOLLOWING THE CONDITIONAL ROC, OR THE COMPLETION OF WORK IN A GIVEN AREA.
- 18. HYDROSEEDING IS A TWO-STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY, GOOD SEED-TO-SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. UPON COMPLETION OF THE SEEDING OPERATION, HYDROMULCH SHOULD BE APPLIED AT A MINIMUM RATE OF 1500 LBS. PER ACRE IN SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE STANDARDS. THE USE OF HYDROMULCH ON SLOPED AREAS IS DISCOURAGED.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING LIFE OF THE CONSTRUCTION PROJECT. ALL SEDIMENT WASHED, DROPPED, TRACKED OR SPILLED ONTO PAVED SURFACES SHALL BE IMMEDIATELY REMOVED.
- 20. THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION, AND FOR EMPLOYING ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AT THE REQUEST OF THE MERCER COUNTY SOIL CONSERVATION DISTRICT.
- 21. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.

MUNICIPALITY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY, RESPECTIVELY.

- 22. ALL DETENTION / RETENTION BASINS MUST BE FULLY CONSTRUCTED (INCLUSIVE OF ALL STRUCTURAL COMPONENTS AND LINERS) AND PERMANENTLY STABILIZED PRIOR TO PAVING OR PRIOR TO THE ADDITION OF ANY IMPERVIOUS SURFACES. PERMANENT STABILIZATION INCLUDES, BUT MAY NOT BE LIMITED TO: TOPSOIL, SEED, STRAW MULCH AND BINDERS OR EROSION CONTROL BLANKETS ON ALL SEEDING, ALL AGRONOMIC REQUIREMENTS AS SPECIFIED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, INSTALLATION OF IE OUTFLOW CONTROL STRUCTURES AND DISCHARGE STORM DRAINAGE PIPING, LOW FLOW CHANNELS, CONDUIT OUTLET PROTECTION, EMERGENCY SPILLWAYS, AND LAP RING
- 23. THE RIDING SURFACE OF ALL UTILITY TRENCHES WITHIN PAVED AREAS SHALL BE 3/4" CLEAN STONE OR BASE PAVEMENT UNTIL SUCH TIME AS FINAL PAVEMENT HAS BEEN INSTALLED. TEMPORARY SOIL RIDING SURFACES ARE PROHIBITED.
- 24. ALL CONSTRUCTION DEWATERING (TRENCHES, EXCAVATIONS, ETC.) MUST BE DONE THROUGH AN INLET OR OUTLET FILTER IN ACCORDANCE WITH THE STANDARD FOR DEWATERING OR AS DEPICITED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN. DISCHARGE LOCATIONS FOR THE DEWATERING OPERATION MUST CONTAIN PERENNIAL VEGETATION
- 25. ALL SWALES OR CHANNELS THAT WILL RECEIVE RUNOFF FROM PAVED SURFACES MUST BE PERMANENTLY STABILIZED PRIOR TO THE INSTALLATION OF PAVEMENT. IF THE SEASON PROHIBITS THE ESTABLISHMENT OF PERMANENT STABILIZATION, THE SWALES OR CHANNELS MAY BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE STANDARDS. 26. NJSA 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY BE ISSUED BY THE MUNICIPALITY BEFORE THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN SATISFIED. THEREFORE, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS MUST BE COMPLETED BEFORE THE DISTRICT ISSUES A REPORT OF COMPLIANCE OR CONDITIONAL REPORT OF COMPLIANCE, WHICH MUST BE FORWARDED TO THE

#### 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. 19-1. 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.).

## 2. SEEDBED PREPARATION

- 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 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.

#### A. TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTHS

- COOL SEASON GRASSES: (1) PERENNIAL 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.

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.

3) 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 SFASON GRASSFS: (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, 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
- SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. 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 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 BE MAXIMIZED.
- 4. MULCHING 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 METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST. PEG AND TWINE
- MULCH NETTINGS 3. CRIMPER MULCH ANCHORING COULTER TOOL

4. LIQUID MULCH-BINDERS

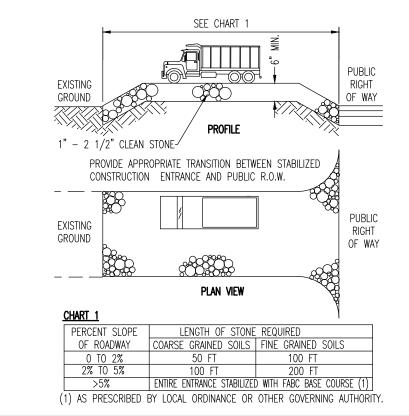
B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH

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 COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIES IN 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 RENOVATION 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.

## - MAINTAIN STOCK PILE SURFACE IN ACCORDANCE WITH /(MAX SIDE TEMPORARY SLOPE TYP.) STABILIZATION NOTES CONSTRUCT SILT FENCE OR HAYBALES -(AS NEEDED) AROUND PERIMETER OF STOCKPILE (SEE DETAIL ON THIS SHEET)



MUNICIPAL, COUNTY, STATE AND MUA DETAILS TO SUPERCEDE DYNAMIC ENGINEERING DETAILS WHERE APPLICAB

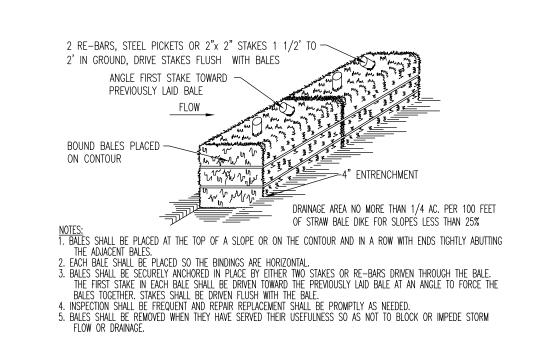
## TEMPORARY STOCKPILE DETAIL

NOT TO SCALE

#### STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.



WOOD OR METAL FENCE POSTS SPACED 8'-0" O.C. - DRAWSTRING RUNNING THROUGH FABRIC ALONG - FABRIC SECURED TO POST WITH METAL FASTENERS AND ∠ ARFA OF TOP OF FENCE. REINFORCEMENT BETWEEN FASTENER AND FABRIC DISTURBANCE ↓ DRAWSTRING RUNNING THROUGH FABRIC ALONG TOP OF FENCE. EXISTING UNDISTURBED GROUND ----,,-DIG 6" WIDE AND 6" DEEP 2'-0" TRENCH, BURY BOTTOM 1'-0" OF FILTER FABRIC, TAMP IN PLACE

2. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5 PERCENT . SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE SIDES. 4. 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 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.

PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED. 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

8. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED. FASTENED TO THE FENCE POSTS, TO

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.

SILT FENCE DETAIL

#### HAYBALE SEDIMENT BARRIER DETAIL NOT TO SCALE

(SEE SPACING ON LANDSCAPE PLAN)

INCORPORATE 2" OF PEAT INTO 6" OF PLANTING MIXTURE, AS 4" SHREDDED HARDWOOD BARK MULCH. FINISHED GRADE -

EXISTING SUBSOIL —

PERENNIAL/GROUND COVER PLANTING DETAIL

SPACING "D" SPACING "A" 6.93" 8.66" 12" O.C. 10.40" 15" O.C 13.00" 18" O.C. 15.60" 24" O.C. 20.80" 30" O.C. 26.00" 36" O.C. 30.00"

NOT TO SCALE

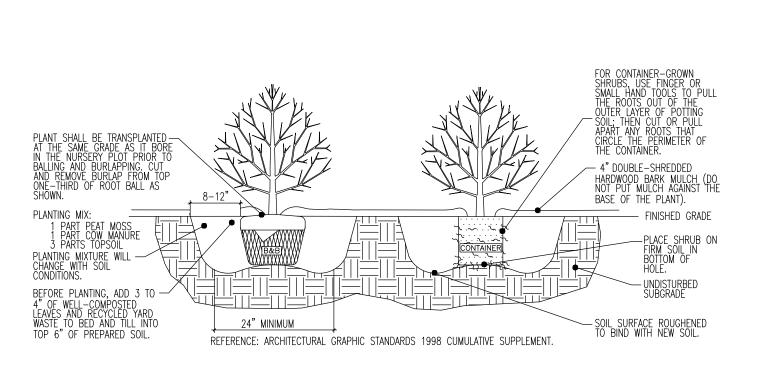
PERENNIAL GROUNDCOVER/SPACING DETAIL

CURB PAVEMENT 3/4" CLEAN STONE TO SEAL FILLED WITH 3/4" CLEAN STONE
PLAN VIEW (TYP.) (AS REQUIRED) 1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 117F, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY WEBTEC INC., OR APPROVED EQUAL. 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. 5. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM. 6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT. Inite Solic Bef 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



DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL

. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL FOLD BURLAP BACK 1/3 FROM TOP ROOT BALL PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY 4. THOROUGHLY SOAK THE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS. 5. THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE

REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

EVERGREEN TREE PLANTING DETAIL

1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.

AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.

PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.

1" VINYL GUYING —

2" DIA. HARDWOOD STAKES -⅓ TREE HT. 3 PER TREE

PREPARED SOIL FOR TREES

1 PART PEAT MOSS

3 PARTS TOPSOIL

UNDISTURBED

SUBGRADE

1 PART COW MANURE

DIG WIDE SHALLOW HOLE -

TAMP SOIL SOLIDLY AROUND

WITH TAMPED SIDES

BASE OF ROOT BAL

REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL FOLD BURLAP BACK 1/3 FROM TOP ROOT BALL

4. THOROUGHLY SOAK THE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH

5. THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE

> AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING: OTHERWISE, DO NOT PRUNE TREE AT PLANTING

EXCEPT FOR SPECIFIC STRUCTURAL

TREE TRUNK)

- FOLD BURLAP AWAY FROM TOP OF ROOT BALL

SET ROOT BALL FLUSH TO GRADE OR SEVERAL

— 4" BARK MULCH (DO NOT PLACE MULCH IN CONTACT WITH

BEFORE PLANTING ADD 3 TO 4" OF WELL-COMPOSTED

LEAVES OR RECYCLED YARD WASTE TO BED AND TILL

CUT BANDS OF WIRE BASKET AND FOLD AWAY FROM

INTO TOP 6" OF PREPARED SOIL.

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INCHES HIGHER IN POORLY DRAINING SOILS.

├─ 4" BUILT-UP FARTH SAUCER

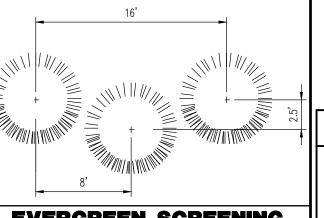
TOP OF ROOT BALL

- SET ROOT BALL ON FIRM PAD IN BOTTOM OF HOLE

AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING: OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS. 1" VINYL GUYING-- FOLD BURLAP AWAY FROM TOP OF ROOT BALL 2" DIA. HARDWOOD STAKES -· SET ROOT BALL FLUSH TO GRADE OR SEVERAL ⅓ TREE HT. 3 PER TREE INCHES HIGHER IN POORLY DRAINING SOILS. 4" BUILT-UP EARTH SAUCER PREPARED SOIL FOR TREES 4" BARK MULCH (DO NOT PLACE MULCH IN CONTACT WITH 1 PART PEAT MOSS 1 PART COW MANURE BEFORE PLANTING ADD 3 TO 4" OF WELL-COMPOSTED 3 PARTS TOPSOIL LEAVES OR RECYCLED YARD WASTE TO BED AND TILL INTO TOP 6" OF PREPARED SOIL. SUBGRADE ➡️ 4-6" DEEPER THAN ROOT BALL DIG WIDE SHALLOW HOLE — CUT BANDS OF WIRE BASKET AND FOLD AWAY FROM WITH TAMPED SIDES TOP OF ROOT BALL TAMP SOIL SOLIDLY AROUND --SET ROOT BALL ON FIRM PAD IN BOTTOM OF HOLE BASE OF ROOT BALL

REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

DECIDUOUS TREE PLANTING DETAIL



MINIMUM 4" TOPSOII —

**EVERGREEN SCREENING SPACING DETAIL** 

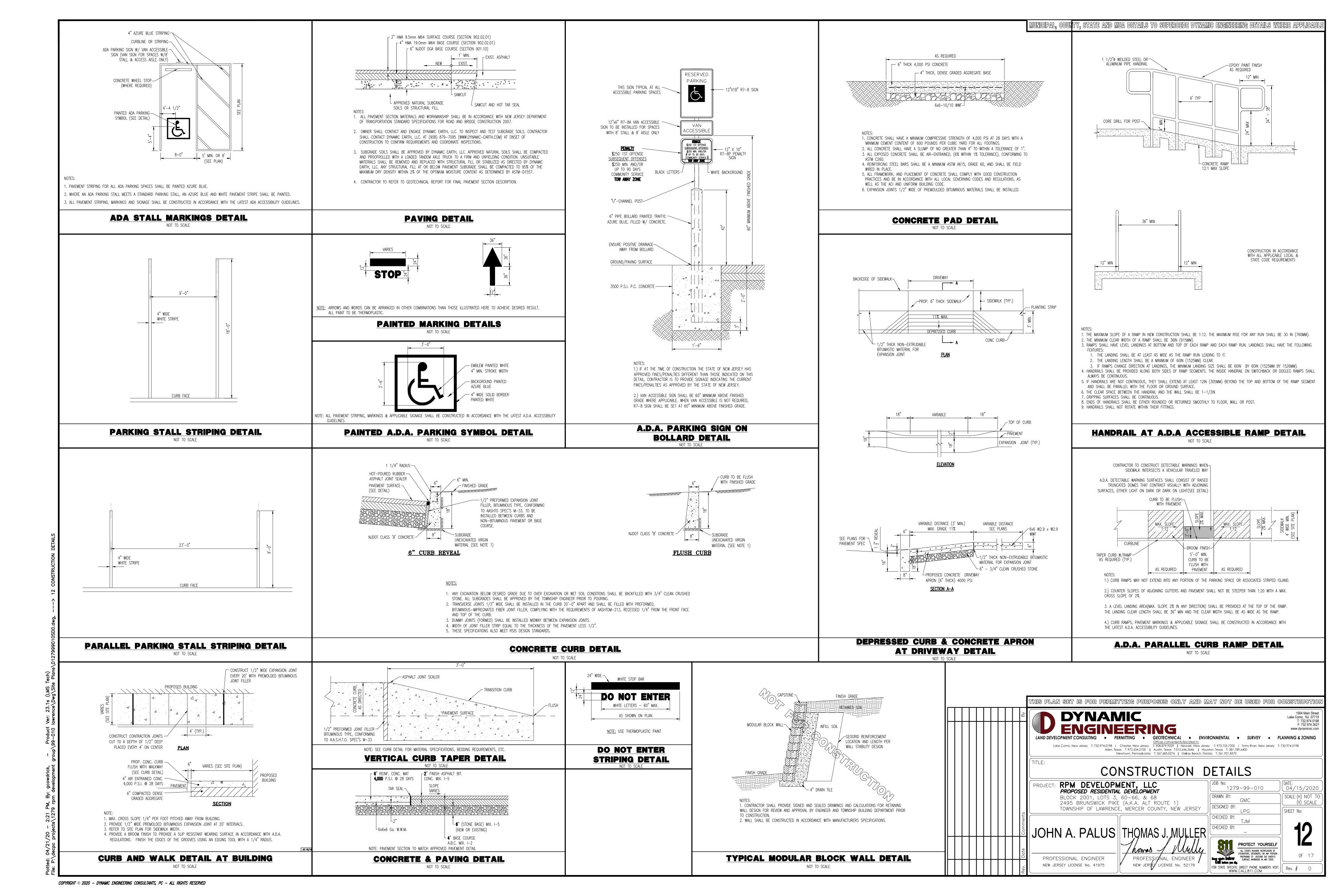
PROJECT: RPM DEVELOPMENT, LLC PROPOSED RESIDENTIAL DEVELOPMENT BLOCK 2001, LOTS 3, 60-66, & 68

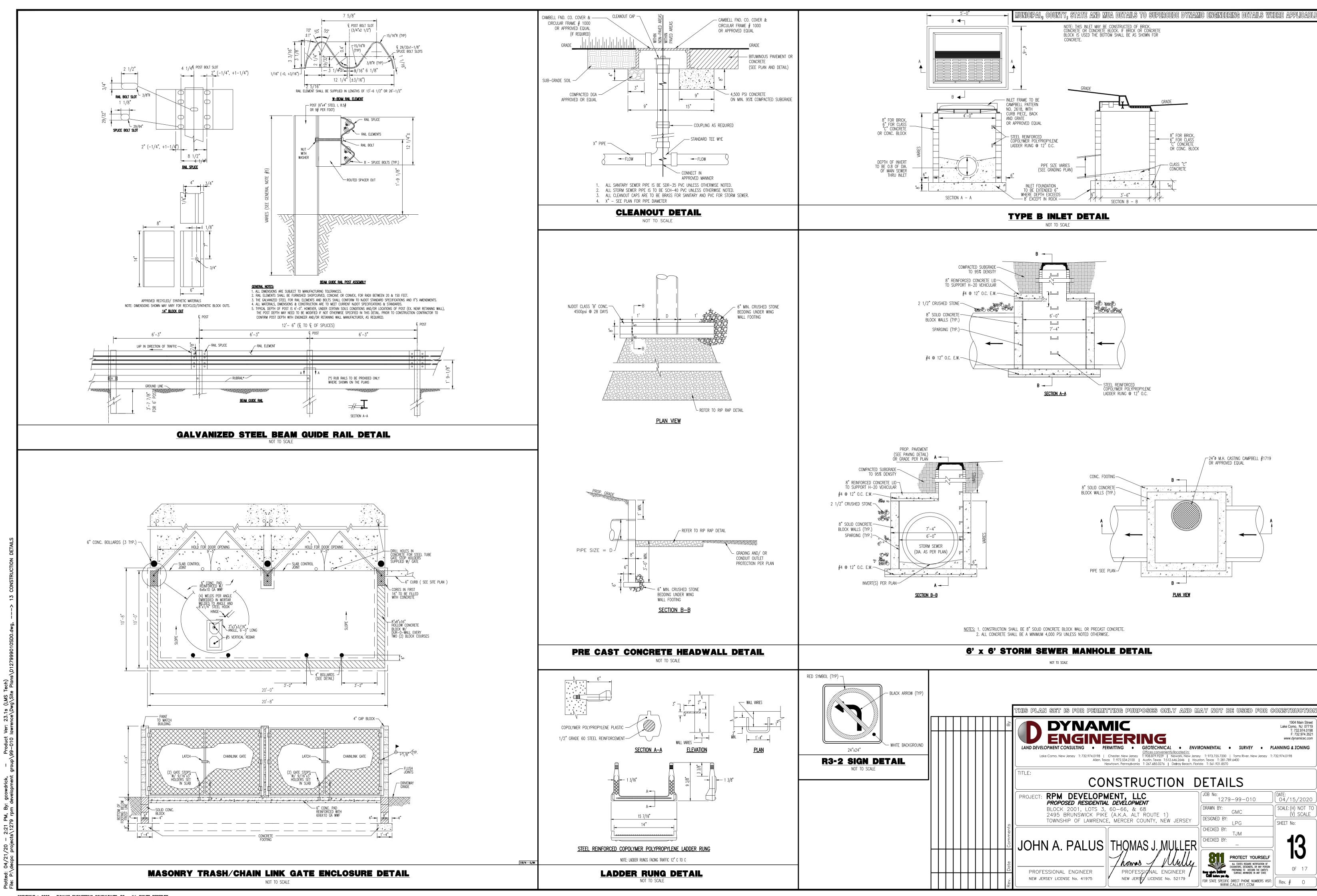
this plan set is for permitting purposes only and may not be used for construc' LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING & ZONING | Chester, New Jersey | T: 732.974.0198 | Chester, New Jersey | T: 972.534.2100 | Austin, Texas | T: 512.646.2646 | Houston, Texas | T: 281.789.6400 | T: 267.685.0276 | Delray Beach, Florida | T: 561.921.8570 | T: 732.974.0198 | CONSTRUCTION DETAILS 1279-99-010 2495 BRUNSWICK PIKE (A.K.A. ALT ROUTE 1) DESIGNED BY: TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW JERSEY CHECKED BY:

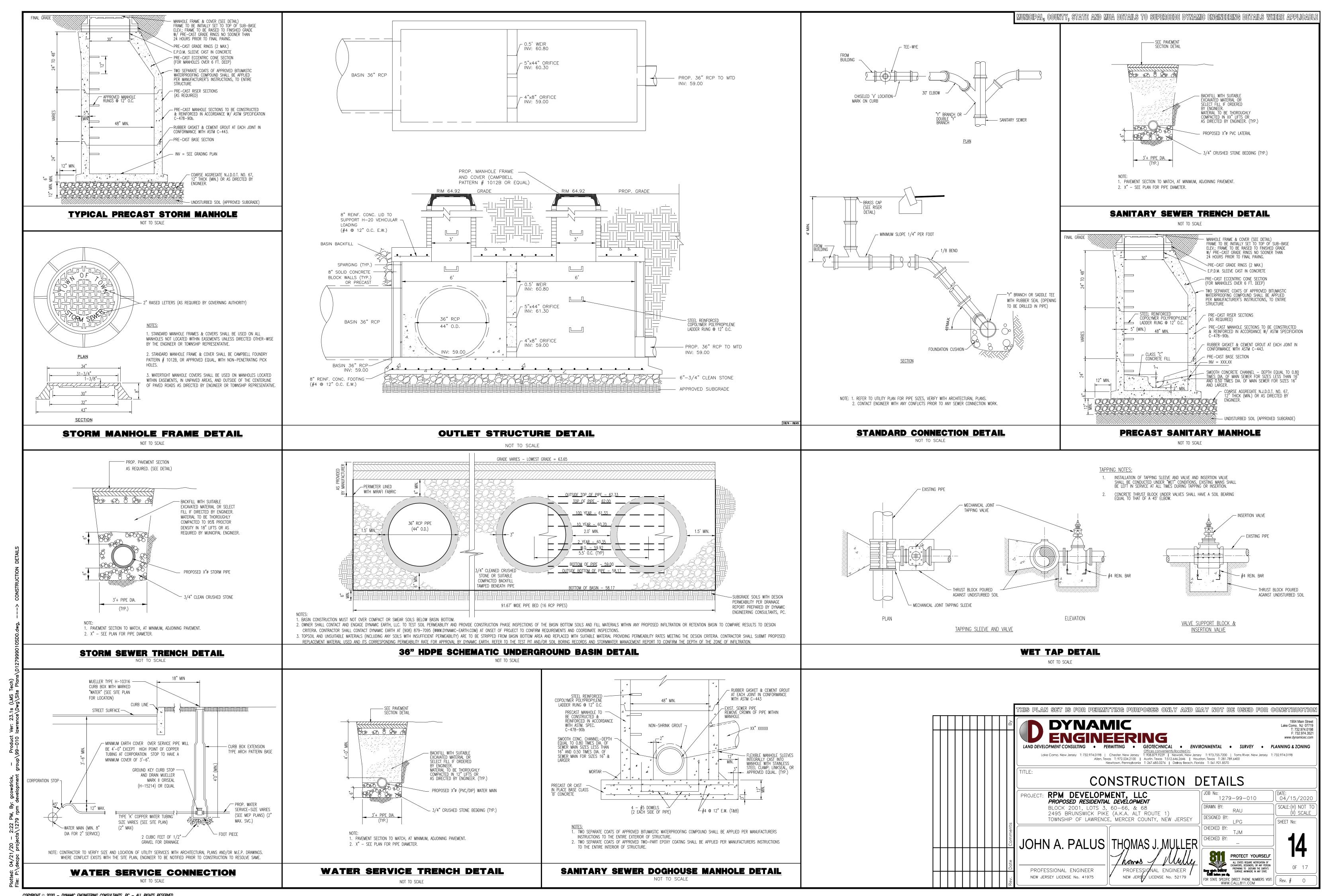
OHN A. PALUS THOMAS J. MULLER PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41975 NEW JERSEY LICENSE No. 52179

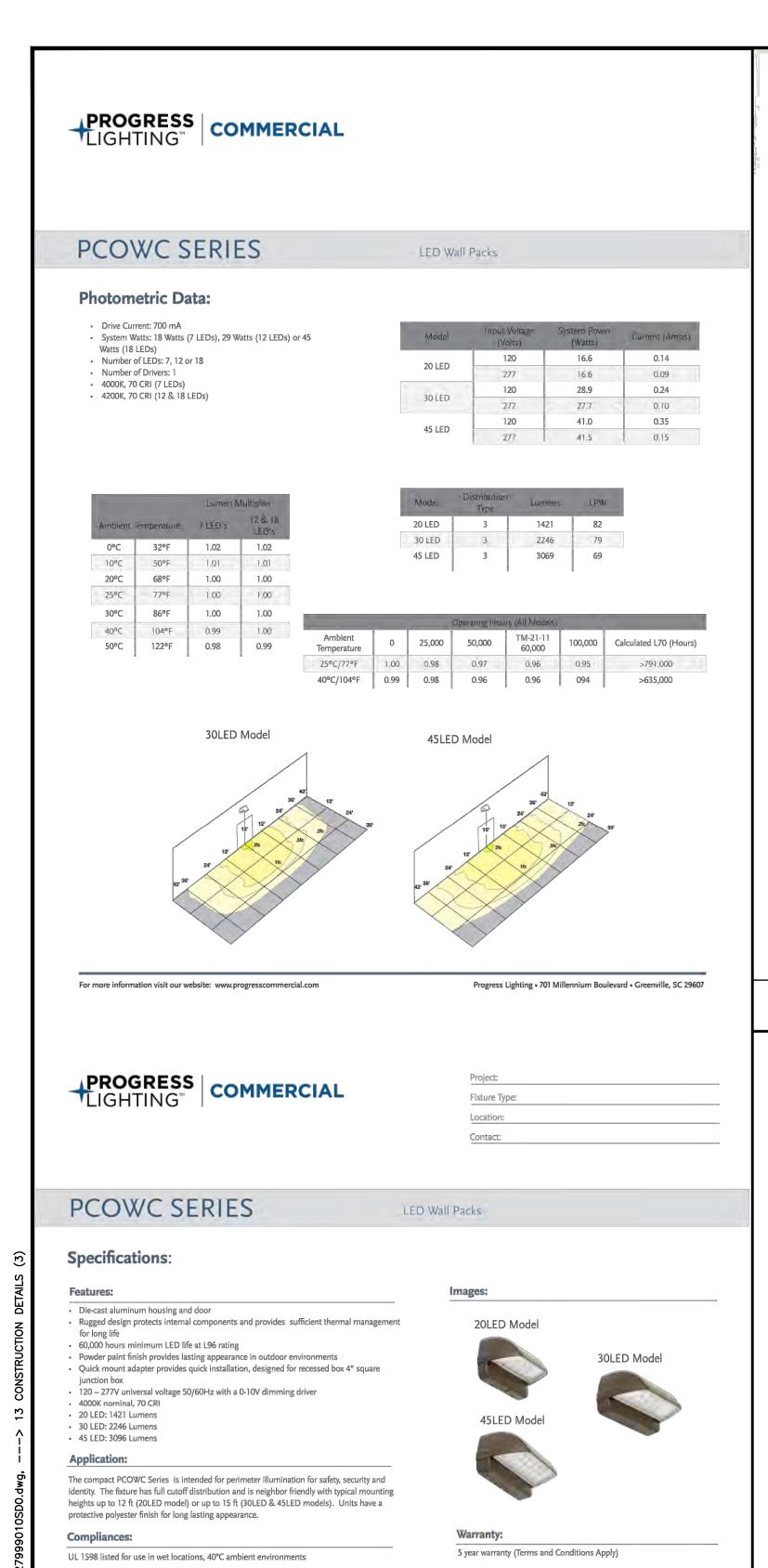
04/15/202 SHEET No: CHECKED BY: PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: Rev. #

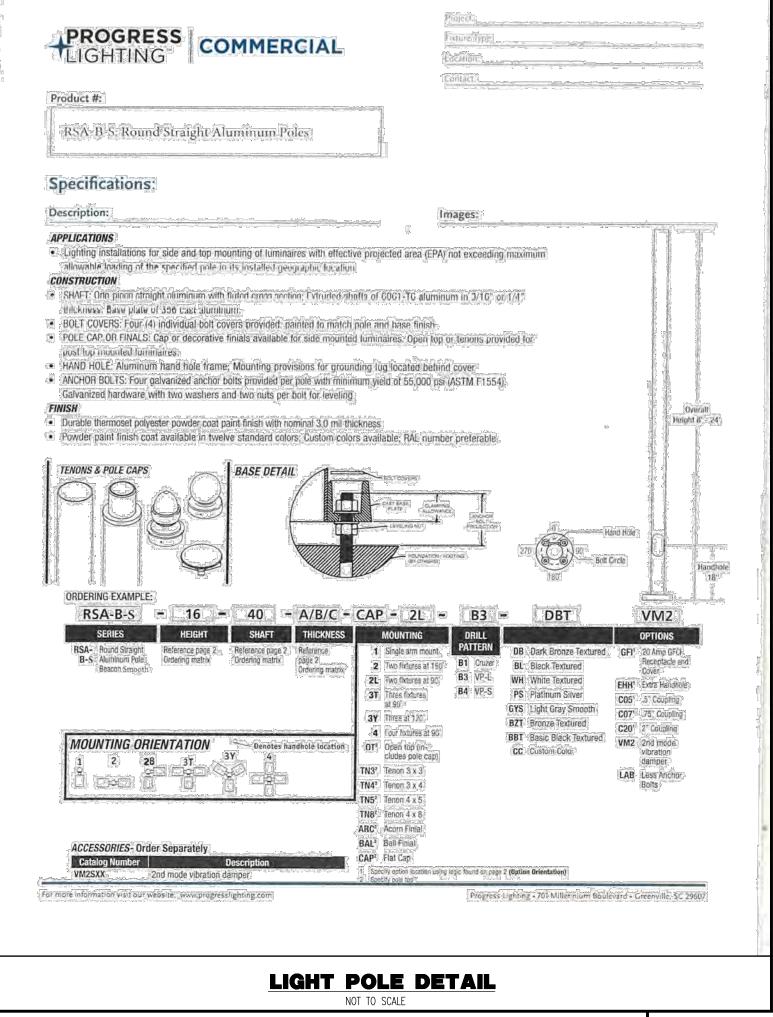
Lake Como, NJ 07719 T: 732.974.0198 F: 732.974.3521 www.dynamicec.com

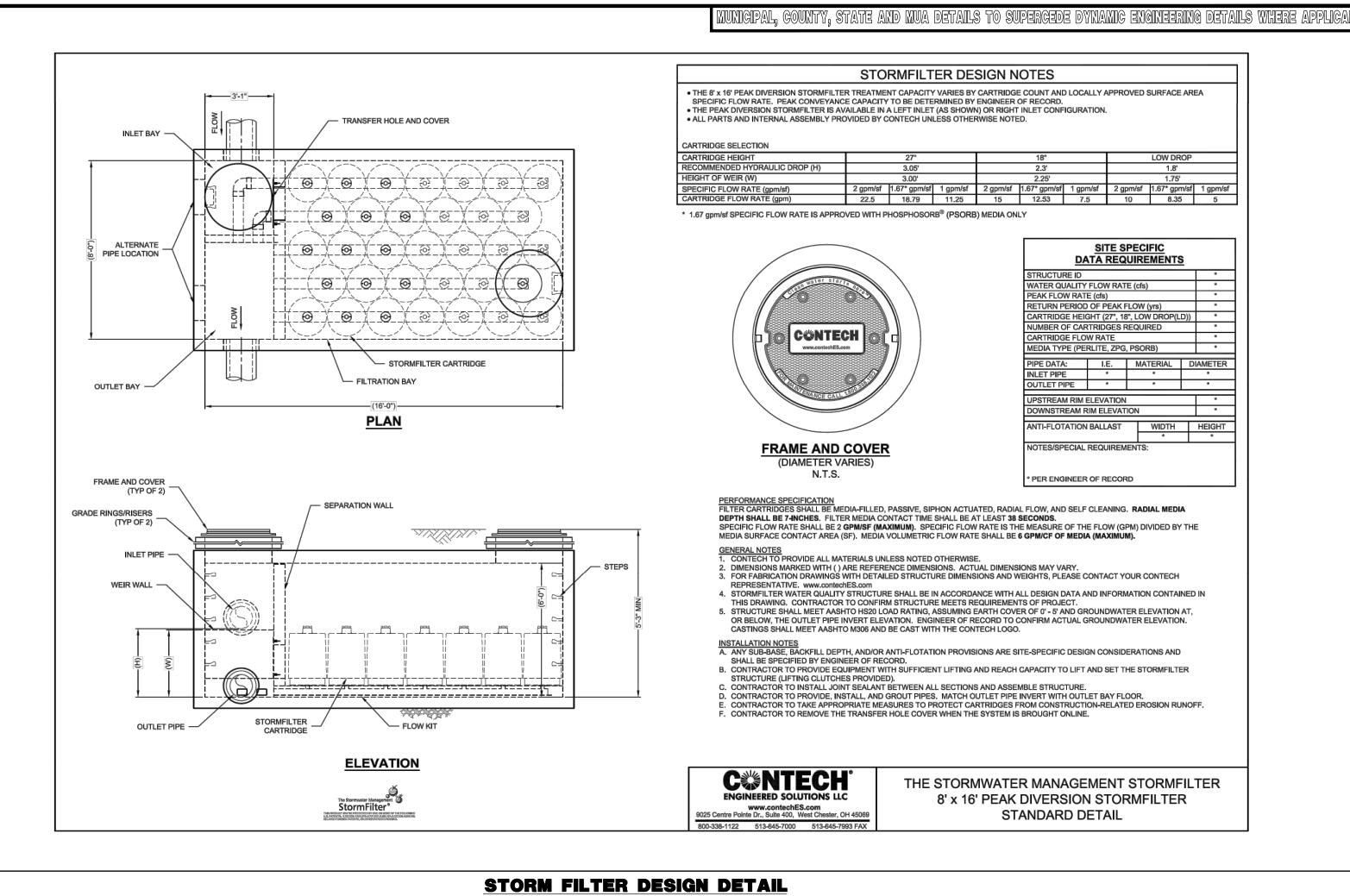


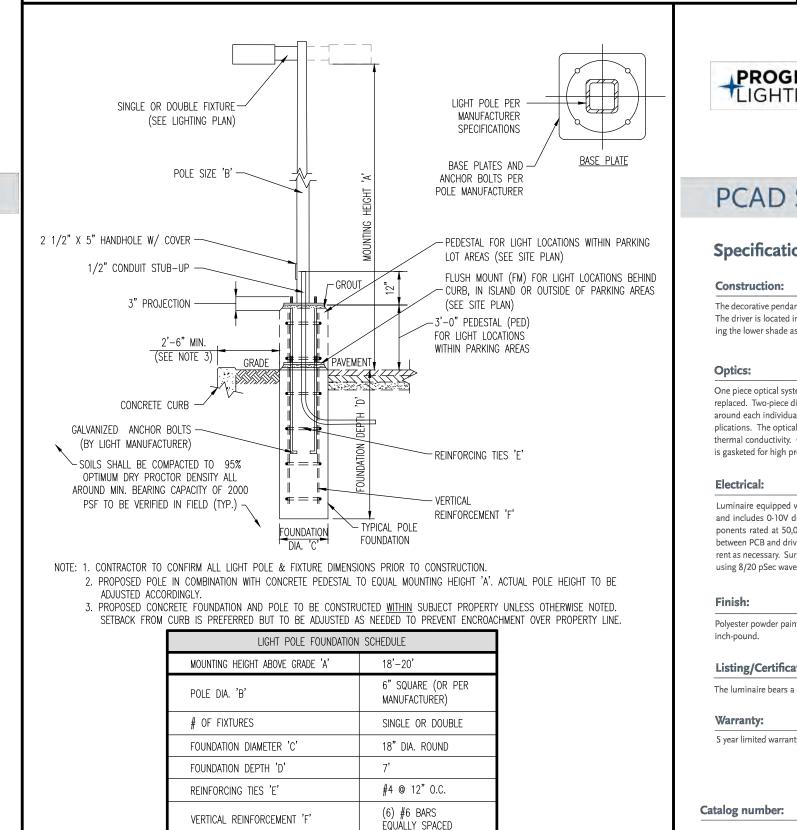


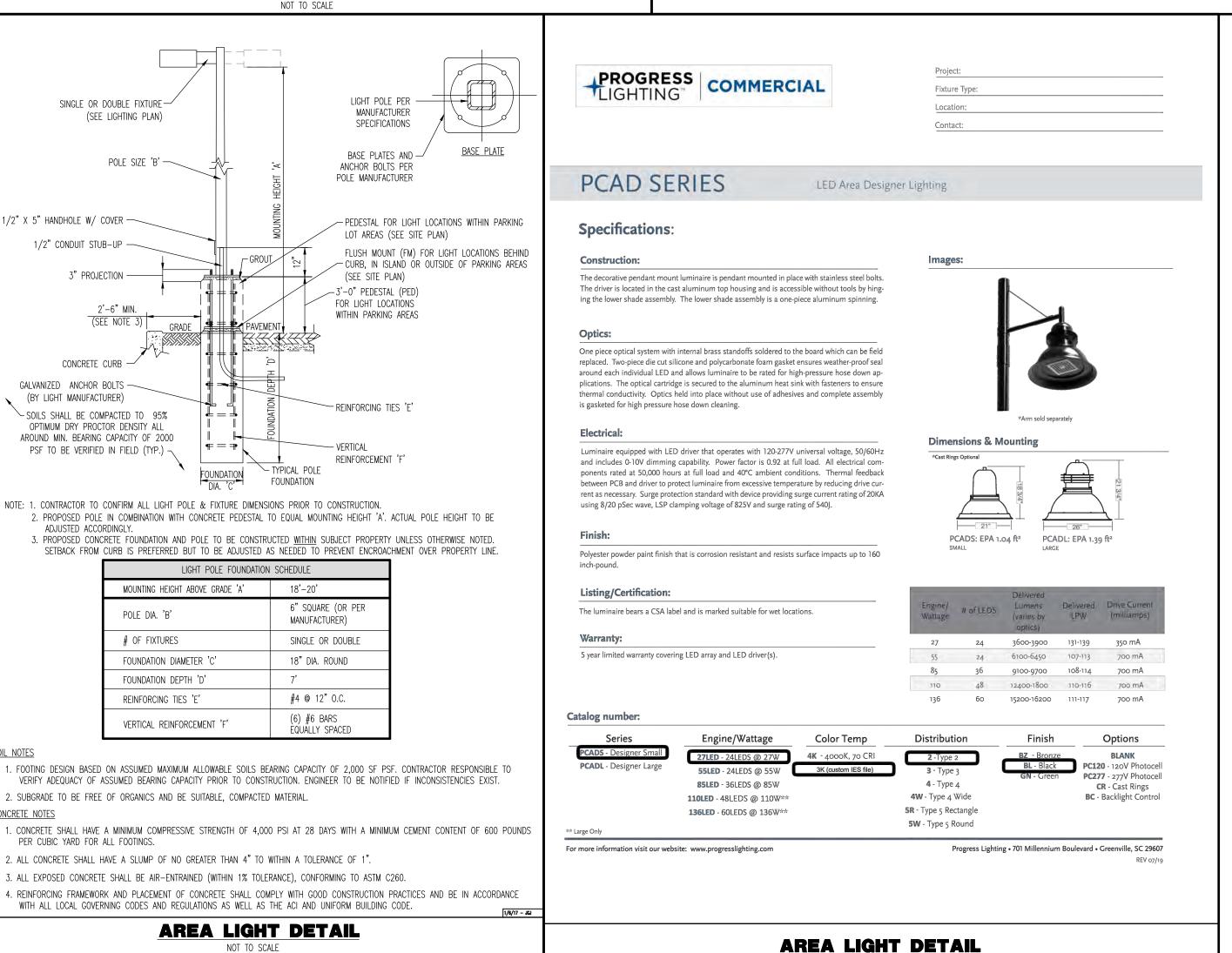


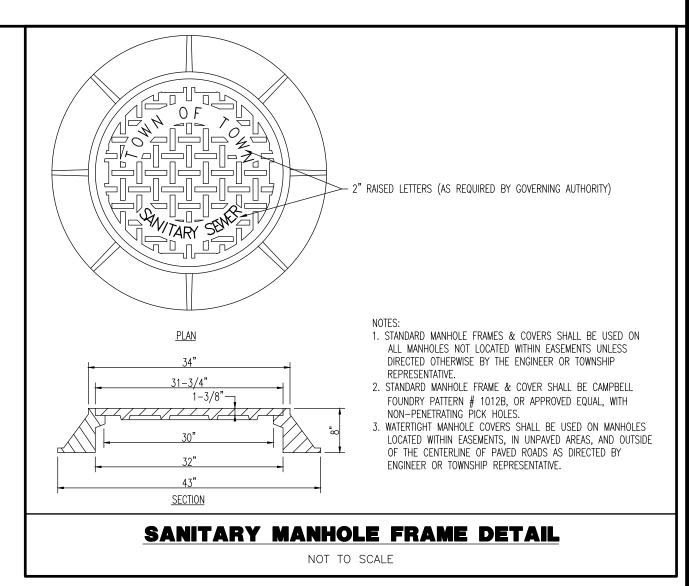


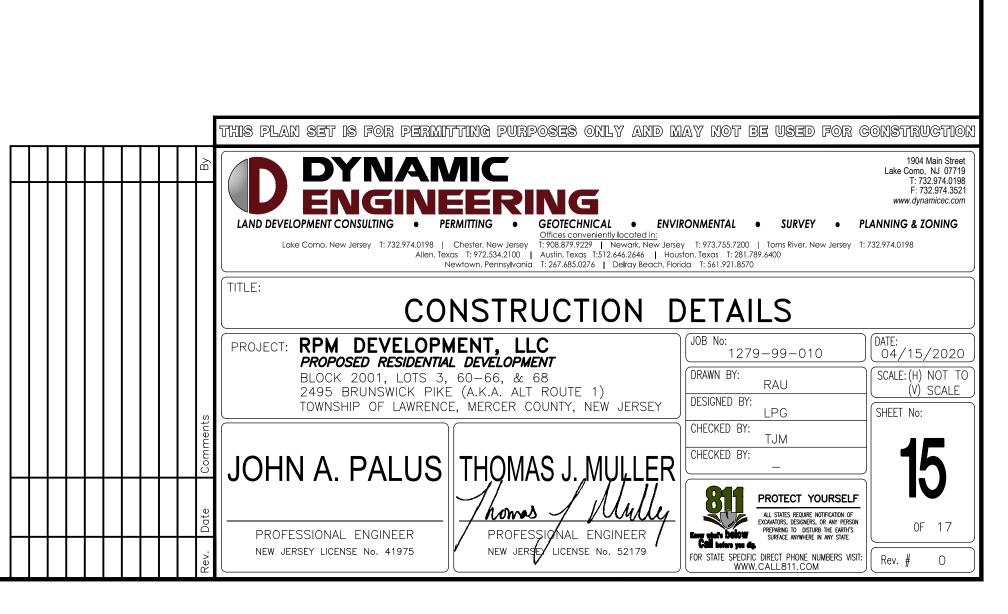












20 LED Model

A: 4.81" (122 mm)

B: 1.55" (39 mm)

Catalog number:

C: 8.22" (209 mm)

45 LED - LED, 45 Watts

For more information visit our website: www.progresscommercial.com

**D:** 5.25" (133 mm)

30& 45 LED Model

A; 6.25" (158.7 mm)

**B:** 1.6" (40.2 mm)

C:10.25" (260.4 mm)

**D:** 5.6" (142.2 mm)

Progress Lighting • 701 Millennium Boulevard • Greenville, SC 29607

Finish

28 - White

82 - Metallic Gray

WALL MOUNTED LIGHT DETAIL

SOIL NOTES

CONCRETE NOTES

PER CUBIC YARD FOR ALL FOOTINGS.

2. SUBGRADE TO BE FREE OF ORGANICS AND BE SUITABLE, COMPACTED MATERIAL.

2. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".

3. ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.

WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE ACI AND UNIFORM BUILDING CODE.

AREA LIGHT DETAIL

