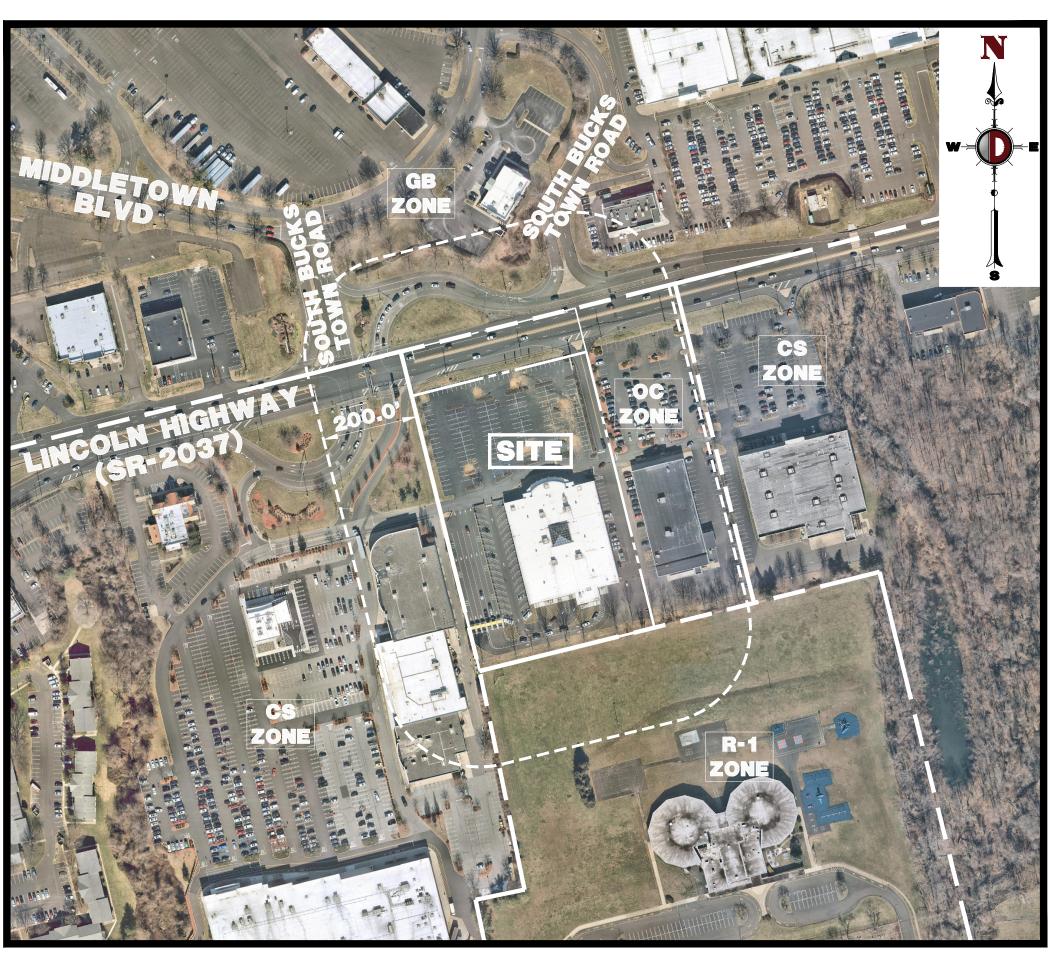
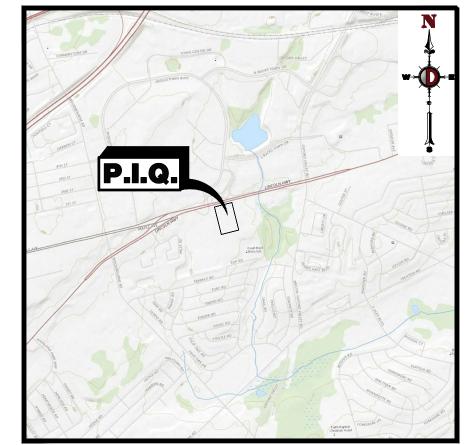
# PRELIMINARY/FINAL LAND DEVELOPMENT PLAN 👄

# FOR 2345 LINCOLN, LLC PROPOSED HOTEL

PARCEL NO. 22-040-026-008
2345 EAST LINCOLN HIGHWAY (SR-2037)
TOWNSHIP OF MIDDLETOWN
BUCKS COUNTY, PENNSYLVANIA



**AREA MAP**1" = 200'



USGS MAP 1" = 2000'

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PREPARED BY

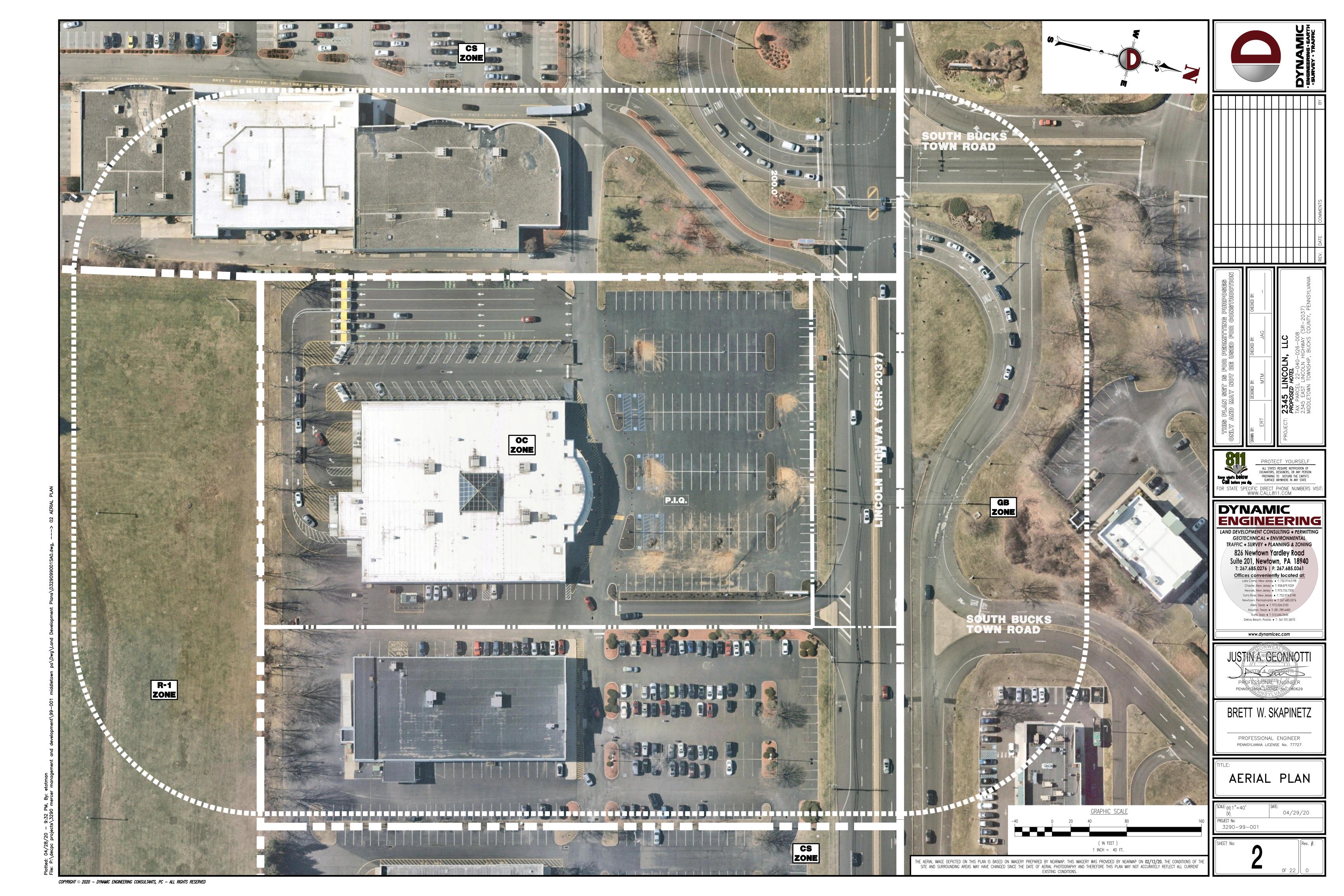
DYNAMIC ENGINEERING CONSULTANTS, P.C.

826 NEWTOWN YARDLEY ROAD - SUITE 201

NEWTOWN, PA 18940

WWW.DYNAMICEC.COM

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PROJECT NO: 18-8220

DPK CONSULTING, LLC 220 OLD NEW BRUNSWICK ROAD, SUITE 201 PISCATAWAY, NJ 08854

2. APPLICANT/OWNER: 2345 LINCOLN LLC 4569 SOUTH BROAD STREET, SUITE 2 YARDVILLE, NJ 08620

2345 EAST LINCOLN HIGHWAY (SR-2037) PARCEL DATA: PARCEL NO. 22-040-026-008 MIDDLETOWN TOWNSHIP

4. ZONE: OC (OFFICE CAMPUS) DISTRICT 5. EXISTING USE: CAR WASH (PERMITTED) (\$500-2003) 6. PROPOSED USE: CAR WASH (PERMITTED) (\$500-2003) HOTEL (NON-PERMITTED) **(VARIANCE)** (§500-2003)

BUCKS COUNTY, PENNSYLVANIA

7. SCHEDULE OF ZONING REQUIREMENTS (\$500-2004)

_				
	ZONE REQUIREMENT	OC ZONE	EXISTING	PROPOSED
	MINIMUM LOT AREA	10 AC	5.084 AC (221,498 SF) <b>(E)</b>	5.084 AC (221,498 SF) <b>(E)</b>
	MINIMUM LOT FRONTAGE	150 FT	375 FT	375 FT
	MINIMUM FRONT YARD SETBACK (EAST LINCOLN HIGHWAY)	100 FT	N/A	66 FT <b>(V)</b>
	MINIMUM REAR YARD SETBACK	75 FT	80.6 FT	80.6 FT
	MINIMUM SIDE YARD SETBACK	75 FT	45.9 FT <b>(E)</b>	45.9 FT <b>(E)</b>
	MINIMUM SPACE BETWEEN BUILDINGS	50 FT	N/A	102.3 FT
	MAXIMUM BUILDING HEIGHT	50 FT	1-STORY	50 FT
	MAXIMUM IMPERVIOUS COVERAGE	55%	91.8% (203,346 SF) <b>(E)</b>	88.4% (195,838 SF) <b>(E)</b>
	MAXIMUM FLOOR AREA RATIO	28%	20.6% (45,756 SF)	39.9% (88,320 SF*) <b>(V)</b>
	MINIMUM RESIDENTIAL BUFFER YARD	75 FT	18.6 FT <b>(E)</b>	18.6 FT <b>(E)</b>

N/S: NO STANDARD N/A: NOT APPLICABLE (E): EXISTING NON-CONFORMANCE (V): VARIANCE \*SQUARE FOOTAGE EXCLUDES FLOOR AREA USED FOR HEATING, VENTILATION AND MECHANICAL EQUIPMENT.

#### PARKING REQUIREMENTS

- A. WHITE OR YELLOW PAINT SHALL BE USED TO STRIPE ALL PARKING STALLS. ALL PARKING STALLS SHALL BE DELINEATED AND SEPARATED BY TWO (2) PARALLEL STRIPES WHICH ARE TWO (2') FEET APART, MEASURED FROM THE OUTSIDE EDGE OF EACH STRIPE. EACH STRIPE SHALL BE FOUR (4") INCHES IN WIDTH. (§500-2704.F(2))
- B. NO ONE ROW OF OFF-STREET PARKING SPACES SHALL EXCEED TWELVE (12) SPACES. RAISED PLANTING BEDS SHALL BE AT INTERVALS NOT TO EXCEED TWELVE (12) SPACES WITH BEDS OFFSET ON ALTERNATING SIDES OF PARKING ROWS. PLANTING ISLANDS SHALL BE LOCATED AT EACH END. (§440-421.E(1)) **(W)**
- C. THE EDGE OF ANY PARKING AREA SHALL NOT BE CLOSER THAN FIFTEEN (15') FEET TO THE OUTSIDE WALL OF THE NEAREST BUILDING. THIS AREA SHALL BE USED FOR SIDEWALKS TO ENTRYWAYS AND FOUNDATION PLANTINGS. (§440-421.E(4)) (W)
- D. PARKING SPACES SHALL BE A MINIMUM OF NINE (9') FEET IN WIDTH BY EIGHTEEN (18') FEET IN LENGTH (\$440-421.E(5)) E. EACH AISLE PROVIDING ACCESS TO STALLS FOR ONE-WAY TRAFFIC SHALL BE AT LEAST TWENTY (20') FEET IN WIDTH. EACH AISLE PROVIDING ACCESS TO
- STALLS FOR TWO-WAY TRAFFIC SHALL BE AT LEAST TWENTY-FOUR (24') FEET IN WIDTH. (\$440-421.E(5)) F. NO LESS THAN A FIVE (5') FOOT RADIUS OF CURVATURE SHALL BE PERMITTED FOR ALL CURBLINES IN ALL PARKING AREAS. (\$440-421.E(8))
- G. EXCEPT AT ENTRANCE AND EXIT DRIVES, ALL PARKING AREAS SHALL BE SET BACK FROM THE FUTURE RIGHT-OF-WAY LINE AND ALL PROPERTY LINES AT LEAST FIFTEEN (15') FEET. THE DISTANCE BETWEEN THIS REQUIRED SETBACK AND THE CARTWAY SHALL BE MAINTAINED AS A PLANTING STRIP. (§440–421.E(9)) **(W)**
- H. PARKING AND DISPLAY AREAS ALONG ARTERIAL AND COLLECTOR ROADS SHALL BE SET BACK AT LEAST THIRTY (30') FEET FROM THE FUTURE RIGHT-OF-WAY OF SAID ROAD IN ORDER TO ACCOMMODATE ACCELERATION AND DECELERATION LANES AND MARGINAL ACCESS ROADS. (\$440-421.E(19)) (W) I. THE CALCULATED OFF-STREET PARKING REQUIREMENT WILL BE PER \$500-2702.B

HOTELS: ONE (1) OFF-STREET PARKING SPACE PER GUEST ROOM

THEREFORE

(92 ROOMS) X (1 SPACE/PER ROOM) = 92 SPACES REQUIRED

= 104 SPACES PROPOSED (COMPLIES)

#### LOADING REQUIREMENTS

A. EVERY HOTEL WITH A GROSS FLOOR AREA OF THIRTY-FIVE-THOUSAND (35,000) SQUARE FEET OR MORE SHALL BE PROVIDED WITH AT LEAST ONE (1) OFF-STREET LOADING BERTH. (\$500-2703.B) B. EACH OFF-STREET LOADING SPACE SHALL BE NO LESS THAN FOURTEEN (14') FEET WIDE, FIFTY-FIVE (55') FEET LONG, AND FOURTEEN FEET AND SIX INCHES HIGH (14.5'), EXCLUSIVE OF DRIVES AND MANEUVERING SPACE, AND LOCATED ENTIRELY ON THE LOT BEING SERVED. (§440-426.J.1) (W)

#### BUFFER REQUIREMENTS

A. ALONG ANY ADJACENT LAND ZONED FOR OR IN RESIDENTIAL OR AGRICULTURAL USE, A BUFFER YARD SHALL BE PROVIDED WHICH SHALL NOT BE LESS THAN SEVENTY-FIVE (75') FEET IN WIDTH, MEASURED FROM THE SITE PROPERTY LINE OR SITE STREET LINE. (\$500-2004.C) (E) B. NO SCREEN SHALL BE REQUIRED ALONG ARTERIAL STREETS AND RAILROAD RIGHTS-OF-WAY WHICH FORM DISTRICT BOUNDARY LINES, PROVIDED THAT THE FRONT OF THE BUILDING FACES THE BOUNDARY LINE. (\$500-2605.E(1))

#### 11. FENCE REQUIREMENTS

A. HEIGHT OF FENCES FOR NONRESIDENTIAL USES SHALL BE NO MORE THAN EIGHT (8') FEET. (\$500-2305.A)

#### 12. LIGHTING REQUIREMENTS

A. ALL ARTIFICIAL LIGHTING USED TO ILLUMINATE ANY PARKING AREA SHALL BE SO DESIGNED THAT NO DIRECT RAYS SHALL FALL UPON ANY NEIGHBORING PROPERTY OR STREET. A MINIMUM LEVEL OF ONE (1 FC) FOOT-CANDLE OF LIGHT SHALL BE MAINTAINED. LIGHTING STANDARDS SHALL BE LOCATED NOT LESS THAN TWO (2') FEET FROM THE PAVING OF PARKING SPACES, DRIVES OR STREETS. (\$440-421.F)

- A. ACCESSORY OUTSIDE STORAGE OR DISPLAY OF MATERIALS, GOODS OR REFUSE SHALL NOT BE PERMITTED WITHIN AN OFFICE CAMPUS. (\$500-2003.H) (V) B. OUTSIDE STORAGE AREAS SHALL BE SHIELDED FROM VIEW FROM PUBLIC STREETS. (§500-2409.E)
- C. COLLECTION STATIONS SHALL BE LOCATED TO AVOID BEING OFFENSIVE AND SHALL BE SCREENED FROM VIEW AND LANDSCAPED. (\$440-426.1(2)) 14. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES
- 5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING 16. THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL
- TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER CONSTRUCTION MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT & PLANS 7. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.
- 18. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS. 19. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN
- 20. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. 21. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION.

22. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS,

- AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE. 3. ALL CONTRACTORS MUST CARRY STATUTORY WORKERS COMPENSATION, EMPLOYERS LIABILITY INSURANCE AND APPROPRIATE LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME DYNAMIC ENGINEERING CONSULTANTS, P.C. , ITS SUBCONSULTANTS AS ADDITIONAL INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH DYNAMIC ENGINEERING CONSULTANTS. P.C. WITH CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING
- OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS. 4. NEITHER THE PROFESSIONAL ACTIVITIES OF DYNAMIC ENGINEERING CONSULTANTS, P.C., NOR THE PRESENCE OF DYNAMIC ENGINEERING CONSULTANTS, P.C. OR ITS EMPLOYEES AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL BE INDEMNIFIED BY THE GENERAL
- CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DYNAMIC ENGINEERING'S REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT DYNAMIC ENGINEERING CONSULTANTS, P.C. HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF DYNAMIC ENGINEERING CONSULTANTS, P.C. IN WRITING BY THE CONTRACTOR. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE REQUIRED TO REVIEW PARTIAL
- SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED. 26. IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT DYNAMIC ENGINEERING CONSULTANTS P.C. AND THE CONTRACTOR MUST AGREE THAT ALL DISPLITES RETWEEN THEM ARISING OUT OF OR RELATING TO
- THIS AGREEMENT OR THE PROJECT SHALL BE SUBMITTED TO NONBINDING MEDIATION UNLESS THE PARTIES MUTUALLY AGREE OTHERWISE. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL THOSE AGREEMENTS.

- 28. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS. INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. AND IT SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM. ALL SUCH COSTS TO CONNECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.
- 29. ALL TRAFFIC SIGNS AND STRIPING SHALL FOLLOW THE REQUIREMENTS SPECIFIED IN THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- 30. THE BUILDING SETBACK DIMENSIONS ILLUSTRATED AND LISTED ON THE SITE PLAN DRAWINGS ARE MEASURED FROM THE OUTSIDE SURFACE OF BUILDING WALLS. THESE SETBACK DIMENSIONS DO NOT ACCOUNT FOR ROOF OVERHANGS, ORNAMENTAL ELEMENTS, SIGNAGE OR OTHER EXTERIOR EXTENSIONS UNLESS SPECIFICALLY
- 31. CONTRACTOR ACKNOWLEDGES HE HAS READ AND UNDERSTOOD THE DESIGN PHASE SOIL PERMEABILITY AND GROUNDWATER TEST RESULTS IN THE STORMWATER MANAGEMENT REPORT AND THAT THE CONTRACTORS RESPONSIBILITIES INCLUDE NECESSARY PROVISIONS TO ACHIEVE THE DESIGN PERMEABILITY IN THE FIELD.
- 32. CONTRACTOR TO BE ADVISED THAT THE ENGINEER WAS NOT PROVIDED WITH FINAL FLOOR PLAN DRAWINGS FOR THE BUILDING AT THE TIME OF SITE PLAN DESIGN. AS A RESULT. ENTRANCE DOOR LOCATIONS AS DEPICTED HEREON MAY NOT BE FINAL AND MUST BE CONFIRMED WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. THE HANDICAP ACCESSIBLE PARKING SPACES AND THE ASSOCIATED RAMPS AND ACCESSIBLE ROUTE MUST COMPLY WITH ALL APPLICABLE LOCAL. STATE AND FEDERAL REQUIREMENTS AND THE HANDICAP PARKING SPACES MUST BE LOCATED AS THE NEAREST SPACES TO THE ENTRANCE. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IMMEDIATELY OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.
- 33. BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE 'X' (AREAS OF MINIMAL FLOOD HAZARD) OF THE FLOOD INSURANCE RATE MAP, MAP NO. 42017C0442J. WHICH BEARS AN REVISED DATE OF MARCH 16, 2015. BY TELEPHONE YOU CAN CALL THE NATIONAL FLOOD INSURANCE PROGRAM AT (1-800-638-6620) TO LEARN IF THIS COMMUNITY CURRENTLY PARTICIPATE IN THE PROGRAM. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVÁTION CERTIFICATE MAY BE NEFDED TO VERIEY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- 34. AN NPDES PERMIT IS REQUIRED FOR THIS PROJECT FROM THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION. 35. CONTRACTOR MUST VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES PRIOR TO THE START OF CONSTRUCTION AS REQUIRED BY PENNSYLVANIA ACT 172 (FORMER ACT 287). CONTACT PENNSYLVANIA ONE CALL AT (800) 242-1776 PRIOR TO BREAKING GROUND.
- 36. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH MIDDLETOWN TOWNSHIP CODES AND SPECIFICATIONS AND PADOT PUBLICATION 408 LATEST REVISION, OR AS LATER AMENDED, UNLESS OTHERWISE NOTED.
- 37. DRIVEWAY ACCESS TO A STATE HIGHWAY SHALL BE AUTHORIZED ONLY BY THE DEPARTMENT OF TRANSPORTATION AS REQUIRED BY SECTION 410 OF THE ACT OF JUNE 1, 1945 (P.P. 1242 NO. 428) KNOWN AS THE STATE HIGHWAY LAW.
- 38. ANY WELL FOUND DURING CONSTRUCTION SHALL BE ABANDONED IN ACCORDANCE WITH THE WATER WELL DRILLERS LICENSE ACT AND CURRENT PADEP REQUIREMENTS, SECTION 3.3.5.11 OF THE PADEP "PUBLIC WATER SUPPLY," AND AWWA STANDARD A100-97 ON WATER WELLS. 39. ANY SEWAGE DISPOSAL SYSTEM FOUND DURING CONSTRUCTION SHALL BE ABANDONED IN ACCORDANCE WITH CURRENT PADEP AND BUCKS COUNTY HEALTH
- 40. THE TOWNSHIP ENGINEER AND BUCKS COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED BY THE OWNER OR CONTRACTOR AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY WORK ON REQUIRED IMPROVEMENTS.

#### SIGNAGE TABLE

SIGN (§500-283)	REQUIREMENTS		PROPOSED	
FREESTANDING	NUMBER OF SIGNS:	ONE (1)	NUMBER OF SIGNS:	ONE (1)
	MAXIMUM SIGN AREA:	40 SF	SIGN AREA:	< 40 SF
	MAXIMUM SIGN HEIGHT:	12 FT	SIGN HEIGHT:	< 12 FT
	MINIMUM SIGN SETBACK (R.O.W):	10 FT	MINIMUM SIGN SETBACK (R.O.W):	10 FT
	MINIMUM SIGN SETBACK (SIDE YARD):	20 FT	MINIMUM SIGN SETBACK (SIDE YARD):	20 FT
BUILDING MOUNTED	NUMBER OF FACADE SIGNS:	ONE (1)	NUMBER OF SIGNS:	ONE (1)
	MAXIMUM FACADE SIGN AREA:	12 SF	SIGN AREA:	< 12 FT
DIRECTIONAL	MAXIMUM SIGN AREA:	2 SF	SIGN AREA:	2 FT
	MAXIMUM SIGN HEIGHT:	8 FT	SIGN HEIGHT:	< 8 FT

N/S: NO STANDARD N/A: NOT APPLICABLE **(E): EXISTING NON-CONFORMANCE (V): VARIANCE** 

#### DEMOLITION NOTES

- I. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS. PROCFED WITH DEMOLITION IN A SYSTEMATIC MANNER FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
- COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
- DEMOLISH CONCRETE AND MASONRY IN SMALL SECTION REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.
- BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER. LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS,
- 8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND 9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT OR, BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT,
- CRAWL SPACE OR ANY SUB-STRUCTURE EXISTS. ANY SUB-STRUCTURE, INCLUDING BASEMENTS SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.

  10. ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES. ADJACENT BUILDINGS AND ALL PERSONS. I. REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. 12, CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT
- CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS 13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK
- 14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME. 15. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95%
- OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE. 16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES. 17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF
- DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO 18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER
- THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFFTY PRECAUTIONS NECESSARY 19. UNDERGROUND AND ABOVE GROUND FEATURES TO REMAIN WITHIN LIMITS OF DEMOLITION SHALL BE IDENTIFIED AND MARKED IN THE FIELD PRIOR TO BEGINNING 20. CONTRACTOR TO COORDINATE WITH SURVEYOR TO RESET SITE BENCHMARKS AS NECESSARY.

1. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO PLACE A PA ONE CALL FOR DEMOLITION PURPOSES AND UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.

2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING. 5. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.

4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.

#### LIST OF VARIANCES APPROVED:

THE FOLLOWING VARIANCES WERE APPROVED BY THE MIDDLETOWN TOWNSHIP ZONING HEARING BOARD ON DECEMBER 12. 2018 FROM THE MIDDLETOWN TOWNSHIP ZONING ORDINANCE (ZO)

TO ALLOW A HOTEL USE IN THE OC (OFFICE CAMPUS DISTRICT) AND FOR THE HOTE USE TO BE A SECOND PRINCIPAL USE WITH THE EXISTING CAR WASH USE ON THE 1. <u>ZO \$500-2003:</u>

2. ZO \$500-2004.B(3)(A): TO ALLOW A SIXTY-SIX (66') FOOT FRONT YARD SETBACK FOR THE HOTEL; WHEREAS THE ORDINANCE REQUIRÈS Á ONE-HUNDRED (100') FOOT FRONT YARD SETBACK. 3. ZO \$500-2004.B(4): TO ALLOW A FORTY (40%) PERCENT FLOOR AREA RATIO FOR BOTH THE CAR WASH

AND HOTEL USE; WHÈREAS THE ORDINANCE ALLOWS FOR A TWENTY-EIGHT (28%) PERCENT MAXIMUM FLOOR AREA RATIO. 4. <u>ZO \$500-2003.H:</u> TO ALLOW EXTERIOR AREAS FOR STORAGE OR REFUSE.

#### **GRADING NOTES**

- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. TEST D=1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECES AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL ISLAND GUTTERS, CURBS AND 1.0% ON ALL CONCRETE SURFACES, AND 1-1/2% MIN ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY EFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 1.0% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
  SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED
- UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED
- OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY
- CONFLICT IMMEDIATELY.

  MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.

  CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESS AISLES. CONTRACTOR TO ENSURE A MAXIMUM OF 5% RUNNING SLOPE AND 2% CROSS SLOPE ALONG ALL OTHER PORTIONS OF ACCESSIBLE ROUTE, WITH THE EXCEPTION OF RAMPS AND CUBB RAMPS. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- THE OWNER SHALL RETAIN DYNAMIC EARTH, LLC (908-879-7095) OR ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOM SOILS AND ANY FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA. CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY OWNERS GEOTECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA
- 11. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT. 12. THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.

#### **ADA NOTES**

ALL SLOPES INDICATED ARE ACTUAL. CONTRACTOR TO REFER TO LATEST ADA GUIDELINES FOR SLOPE LIMITS. AT THE TIME OF PLAN DESIGN, THE SLOPE LIMITS ARE AS FOLLOWS:

- SIDEWALKS/ ACCESSIBLE ROUTES - RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)
- CROSS SLOPE: 1:48 (2.08%) MAX., 1.0% MIN. (1.5% MAX. FOR NEW CONSTRUCTION) INTERSECTION SLOPE: 1:48 (2.08%) MAX. IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
- CHANGE IN LEVELS: 1/4" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE BEVELED EDGE SLOPE OF 1:2 (50%) MAX. GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL
- CURB RAMP - SLOPE 1:12 (8.3%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION)
- SIDE FLARE SLOPE: 1:10 (10%) MAX. (WHERE PEDS CROSS RAMP) BOTTOM LANDING: 48" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION) TOP LANDING: 36" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) CROSS SLOPE (1.5% MAX. FOR NEW CONSTRUCTION) AND 1:20 (5%) RUNNING SLOPE (4.5% MAX FOR NEW CONSTRUCTION)
- ACCESSIBILITY PÁRKING STALLS SPACE AND ACCESS AISLE SLOPE: 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
- <u>CROSSWALKS</u> - RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)
- CROSS SLOPE: 1:48 (2.08%) MAX. (1.5% MAX. FOR NEW CONSTRUCTION CHANGE IN LEVELS: 1/4" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE. BEVELED EDGE SLOPE OF 1:2 (50%) MAX. GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL
- SLOPE: 1:12 (8.3%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION) - EXISTING RAMPS; SLOPE: 1:10 (10%) MAX. FOR RISE OF 6"; 1:8 (12.5%) MAX. FOR MAX. RISE OF 3"
- MAX\_RISE: 30"
- MIN. CLEAR WIDTH: 36" MIN. LANDING CLEAR LENGTH: 60"
- MAX. CROSS SLOPE: 1:48 (2.08%) (1.5% MAX. FOR NEW CONSTRUCTION)

#### UTILITY NOTES

LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO PARCEL OWNER, OWNER COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PENNSYLVANIA ONE—CALL SYSTEM 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SIZES TO BE DETERMINED BY ARCHITECT. WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTORS PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND

  (NOTARY PUBLIC)

  APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE. ALL WATER MAIN SHALL BE CEMENT-LINED, CLASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE DESIGNATED.
- HE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH. SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. WHERE THIS IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN. ALL SEWER MAINS SHALL BE SDR-35 PVC PIPE UNLESS OTHERWISE DESIGNATED ALL SEWER PIPE INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 20 FEET OF COVER OR WITHIN 18 INCHES OF A WATER MAIN SHALL B
- CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT-LINED, CLASS 52 PIPE, FURNISHED WITH SEWER COAT, OR APPROVED FOUAL WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10' DEEP AT CONNECTION TO THE SEWER MAIN, CONCRETE DEEP LATERAL CONNECTIONS ARE TO BE
- LOCATION & LAYOUT OF GAS, ELECTRIC & TELECOMMUNICATION UTILITY LINES AND SERVICES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ACTUAL LOCATION & LAYOUT OF THESE UTILITIES & SERVICES ARE TO BE PER THE APPROPRIATE UTILITY PROVIDER. ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED W/ ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS
- ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS. ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED. MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS III, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCE CONCRETE ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-507, CLASS HE-III, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE T BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE AŚSOCIATION INSTALLATION GUIDELINES AND MORTAR OR PREFORMED FLEXIBLE JOINT SEALANTS IN ACCORDANCE WITH ASTM C 990 TO BE UTILIZED TO PROVIDE A SILT-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATERTIGHT AND CONFORM TO ASTM C-443. HDPF DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306, SOLID PIPE SHALL HAVE
- GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM D3212. PERFORATED PIPE SHALL HAVE GASKETED SILT-TIGHT JOINTS MFFTING THE REQUIREMENTS OF ASTM F2306 AND ASTM F477. HDPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURE RECOMMENDATIONS. 16. HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F27.36 (12"-30" PIPE) AND ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F477. FIELD WATERTIĞHNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2487. HP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HP STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER
- PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.

  18. CARE SHOULD BE TAKEN TO AVOID ANY DISTURBANCE TO THE EXISTING ELEVATED SAND MOUND ABSORPTION AREA DURING CONSTRUCTION, INCLUDING THE SOIL
- 19. ANY EXCAVATION AND REGRADING IN SEPTIC AREAS SHALL RECEIVE APPROVAL FROM THE SEWAGE ENFORCEMENT OFFICER PRIOR TO CONSTRUCTION. **EXISTING UTILITY NOTES**

EXISTING WATER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING WATER SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING WATER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL WATER COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL WATER COMPANY PRIOR TO COMPLETION. IF THE EXISTING WATER SERVICE CAN NOT BE UTILIZED, THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL WATER COMPANY. CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND

EXISTING GAS SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING GAS SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING GAS SERVICE LINE ND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL GAS COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL GAS COMPANY PRIOR TO COMPLETION. ANY NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

SANITARY SEWER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING SEWER SERVICE CONNECTION IF OF ADEQUATE SIZE AND INTEGRITY AND ACCEPTABLE LOCAL SEWER AUTHORITY. OTHERWISE CONTRACTOR TO REMOVE EXISTING SEWER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL SEWER AUTHORITY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL SEWER AUTHORITY PRIOR TO COMPLETION. IF EXISTING SEWER SERVICE CAN NOT BE UTILIZED THEN THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL SEWER AUTHORITY. CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

#### APPROVAL OF THE BOARD OF SUPERVISORS OF THE TOWNSHIP OF MIDDLETOWN

ò	PLAN	WAS	APPROVED	BY	THE	BOARD	OF	SUPERVISORS	OF	THE	TOWNSHIP	0F	MIDDLETOWN	THIS	DAY	OF	, 2	20
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#### CERTIFICATE OF COUNTY RECORDER OF DEEDS

ECORDED	IN	THE	OFFICE	OF	THE	RECORDER	0F	DEEDS,	BUCKS	COUNTY,	PENNSYLV	ANIA,	IN	PLAN B	300K _	, P/	AGE _	 ON 1	ſΗE
		_ DA`	Y OF _			2	20												

#### PROFESSIONAL ENGINEER'S CERTIFICATION

, <u>JUSTIN A. GEONNOTTI, P.E.</u>, A REGISTERED PROFESSIONAL ENGINEER OF THE COMMONWEALTH OF PENNSYLVANIA, DO HEREBY CERTIFY THAT THIS PLAN MEETS THE REQUIREMENTS OF ALL ORDINANCES AFFECTING THIS SUBDIVISION AND LAND DEVELOPMENT PLAN, INCLUDING THE AMENDED ZONING ORDINANCE OF THE TOWNSHIP OF MIDDLETOWN, IN WHICH THIS SUBDIVISION AND LAND DEVELOPMENT IS

, P.E. (REGISTERED PROFESSIONAL ENGINEER)	080629 (REGISTRATION NUMBER)
(NEGISTENED FINOLESSIONAL ENGINEER)	(INCOISTINATION NOMBER)
TOWNSHIP ENGINEER  THIS LAND DEVELOPMENT PLAN WAS REVIEWED BY THE TOWNSHIP ENGINEER,	, P.E., FOR MIDDLETOW
TOWNSHIP ON THIS DAY OF 20	1
. P.E.	
(TOWNSHIP ENGINEER)	(REGISTRATION NUMBER)

#### OWNERS' CERTIFICATION OF INTENT

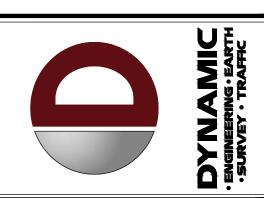
COMMONWEALTH OF PENNSYLVANIA

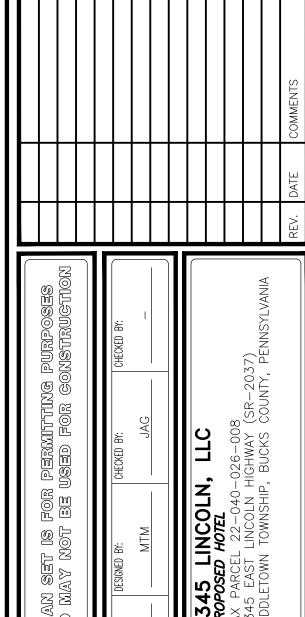
\_\_, 20\_\_, BEFORE ME THE SUBSCRIBER, A NOTARY PUBLIC OF THE COMMONWEALTH OF PENNSYLVANIA. PERSONALLY APPEARED , AND THAT IN SUCH CAPACITY BEING AUTHORIZED TO DO SO. THEY EXECUTED THE FORGOING PLAN AS THE REGISTERED OWNERS OF THE DESIGNATED LAND, THAT ALL NECESSARY APPROVALS OF THE PLAN HAVE BEEN OBTAINED AND IS ENDORSED THEREON, AND THAT THEY DESIRE THAT THE FOREGOING PLAN BE RECORDED ACCORDING TO LAW.

PARCEL OWNER, OWNER

WITNESS MY HAND AND NOTARIAL SEAL THIS \_\_\_ DAY OF \_\_\_\_\_ 20\_\_

MY COMMISSION EXPIRES THE \_\_\_ DAY OF \_\_\_\_\_\_







#### **DYNAMIC ENGINEERING**

LAND DEVELOPMENT CONSULTING • PERMITTING GEOTECHNICAL • ENVIRONMENTAL TRAFFIC • SURVEY • PLANNING & ZONING 826 Newtown Yardley Road Suite 201, Newtown, PA 18940 T: 267.685.0276 | F: 267.685.0361 Offices conveniently located at: Lake Como, New Jersey • T: 732.974.0198 Chester, New Jersey • T: 908.879.9229

> Austin, Texas • T: 512.646.2646 Delray Beach, Florida • T: 561.921.8570

Newark, New Jersey • T: 973.755.7200

Toms River, New Jersey • T: 732.974.0198

Newtown, Pennsylvania • T: 267.685.0276

Allen, Texas • T: 972.534.2100

Houston, Texas • T: 281.789.6400

www.dynamicec.com

PROFESSIONAL ENGINEER PENNS VANIA LICENSE No. 980629

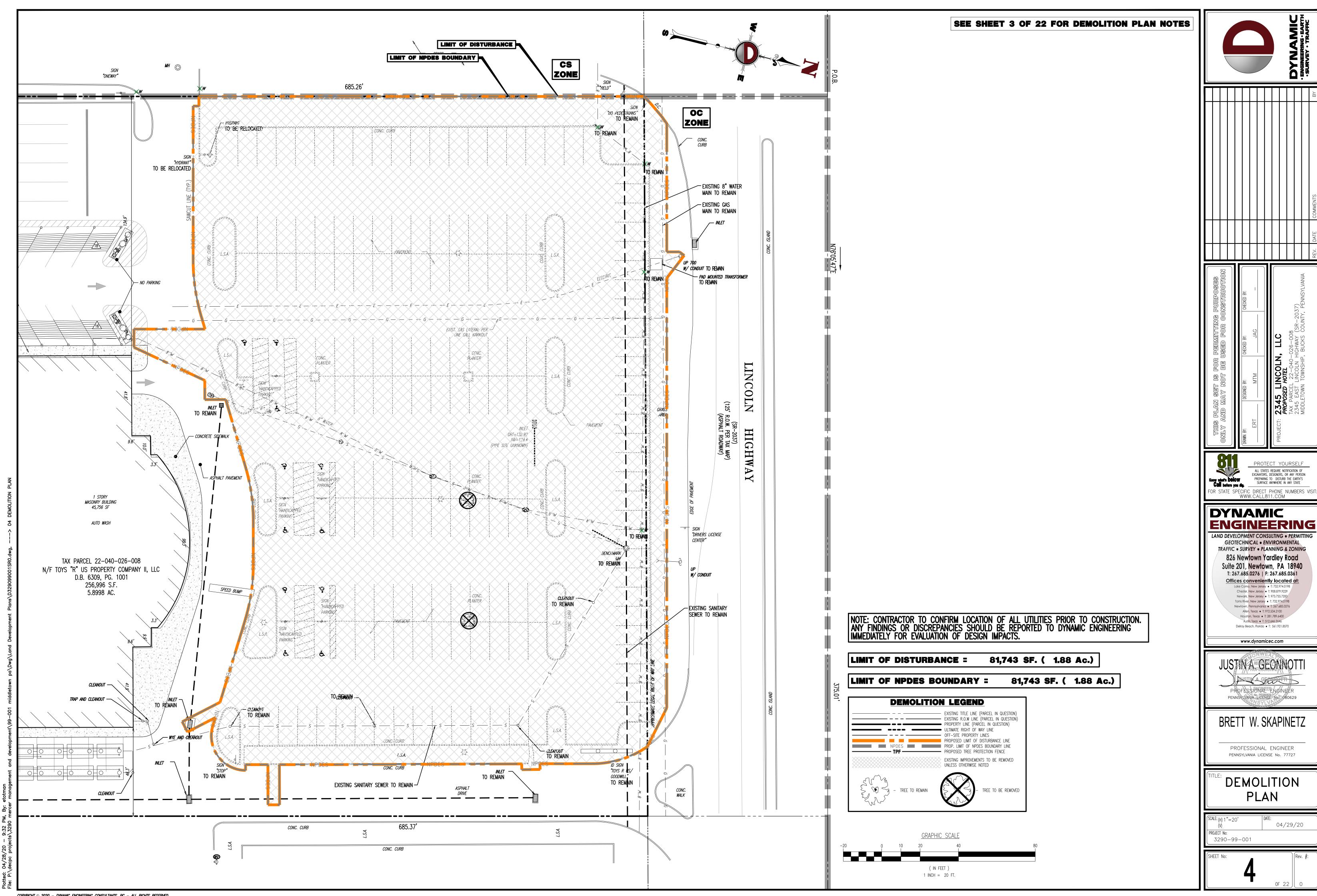
PROFESSIONAL ENGINEER

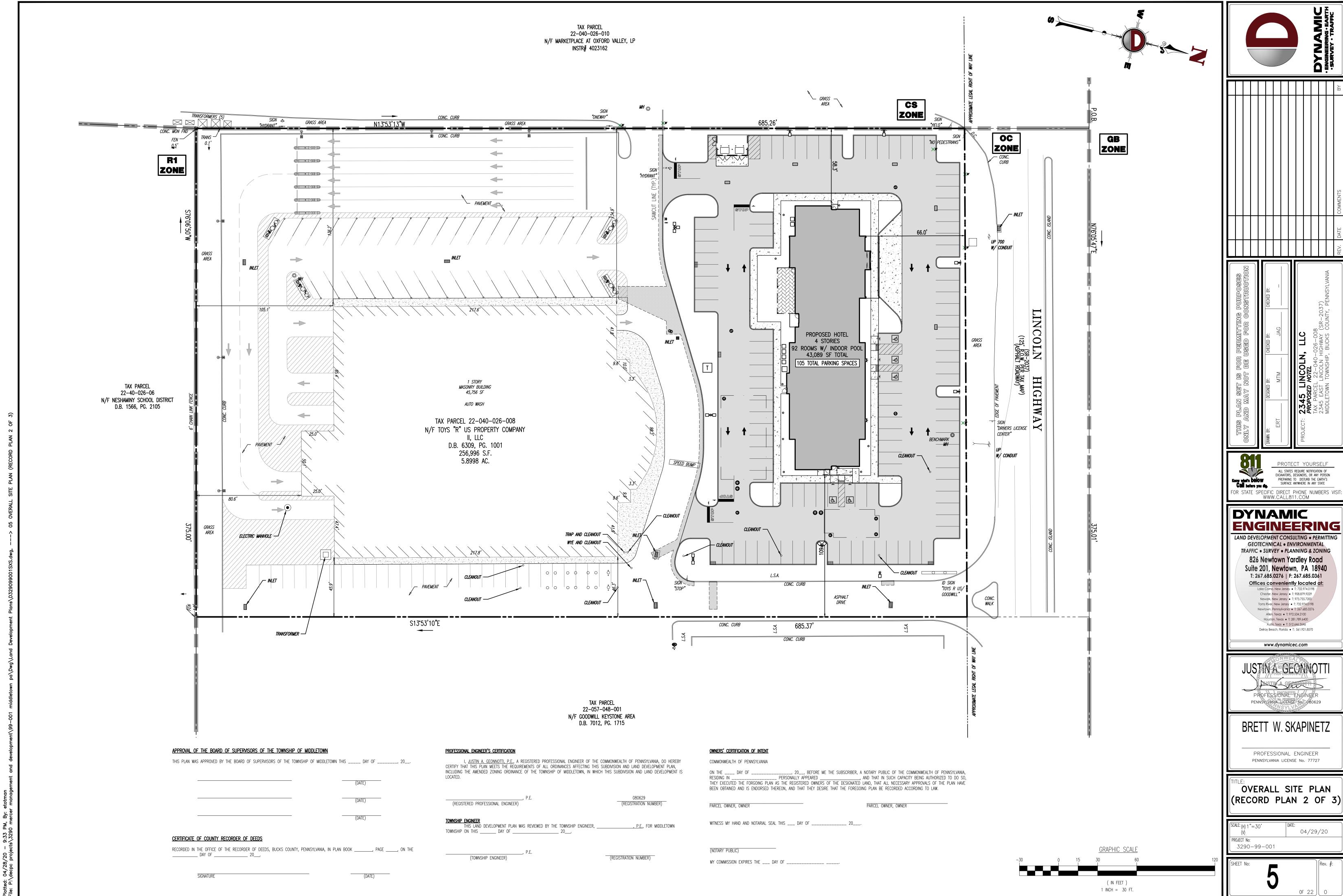
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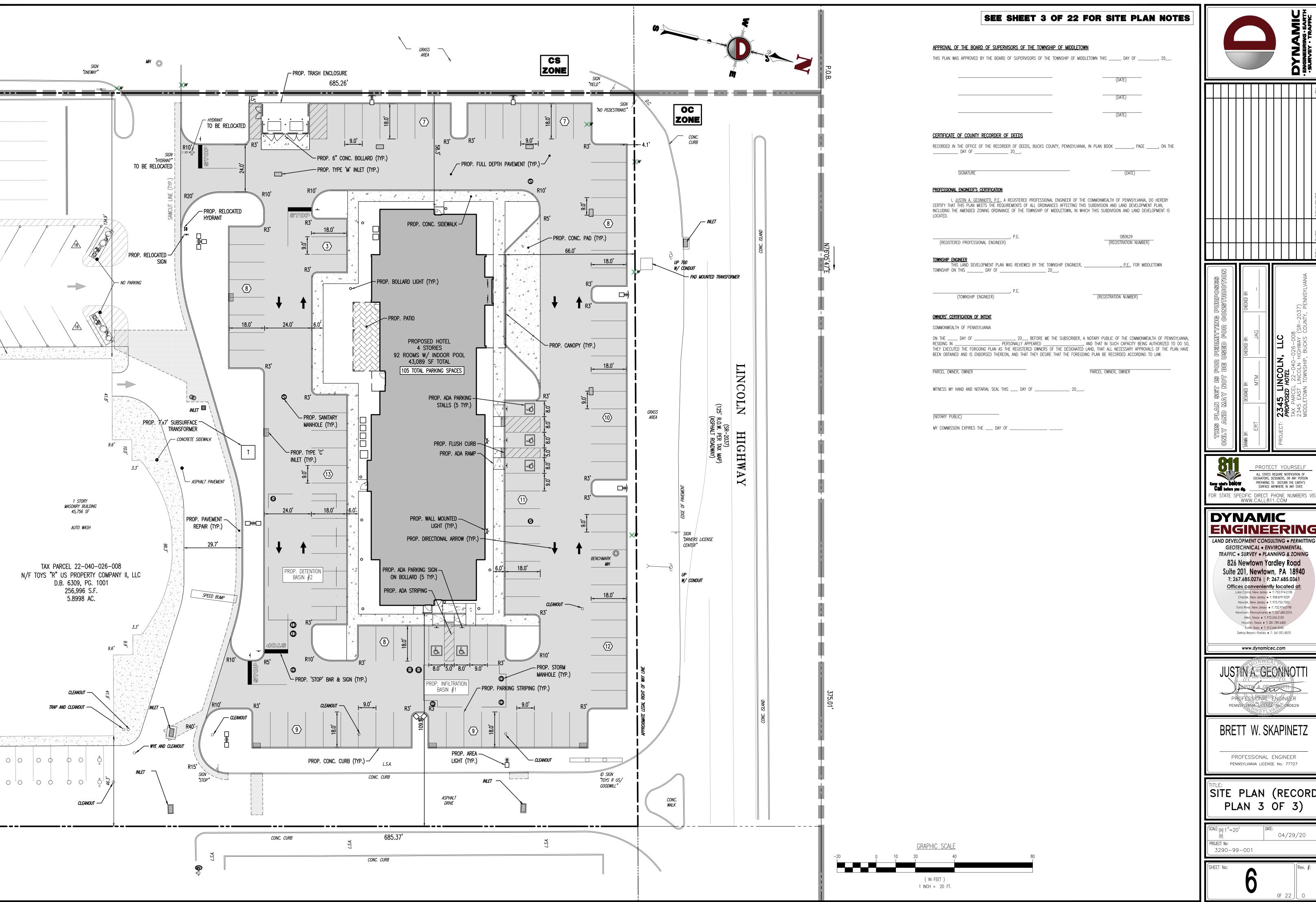
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THIS PLAN SET IS FOR PERMITTING PURION ONLY AND MAY NOT BE USED FOR GONSTI	DRAWN BY:     DESIGNED BY:     CHECKED BY:     CHECKED       MTM     JAG	PROJECT: <b>2345 LINCOLN, LLC</b> PROPOSED HOTEL  TAX PARCEL 22-040-026-008 2345 EAST LINCOLN HIGHWAY (SR-2037) MIDDLETOWN TOWNSHIP, BUCKS COUNTY, PENN
THIS PI ONLY ANI	DRAWN BY:	PROJECT:
Know what's bell Call before	EXCAVA OW PREP	OTECT YOURSELF  STATES REQUIRE NOTIFICATION OF TORS, DESIGNERS, OR ANY PERSON ARING TO DISTURB THE EARTH'S RFACE ANYWHERE IN ANY STATE

### **DYNAMIC ENGINEERING**

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PENNS VANA LICENSE No. 80629

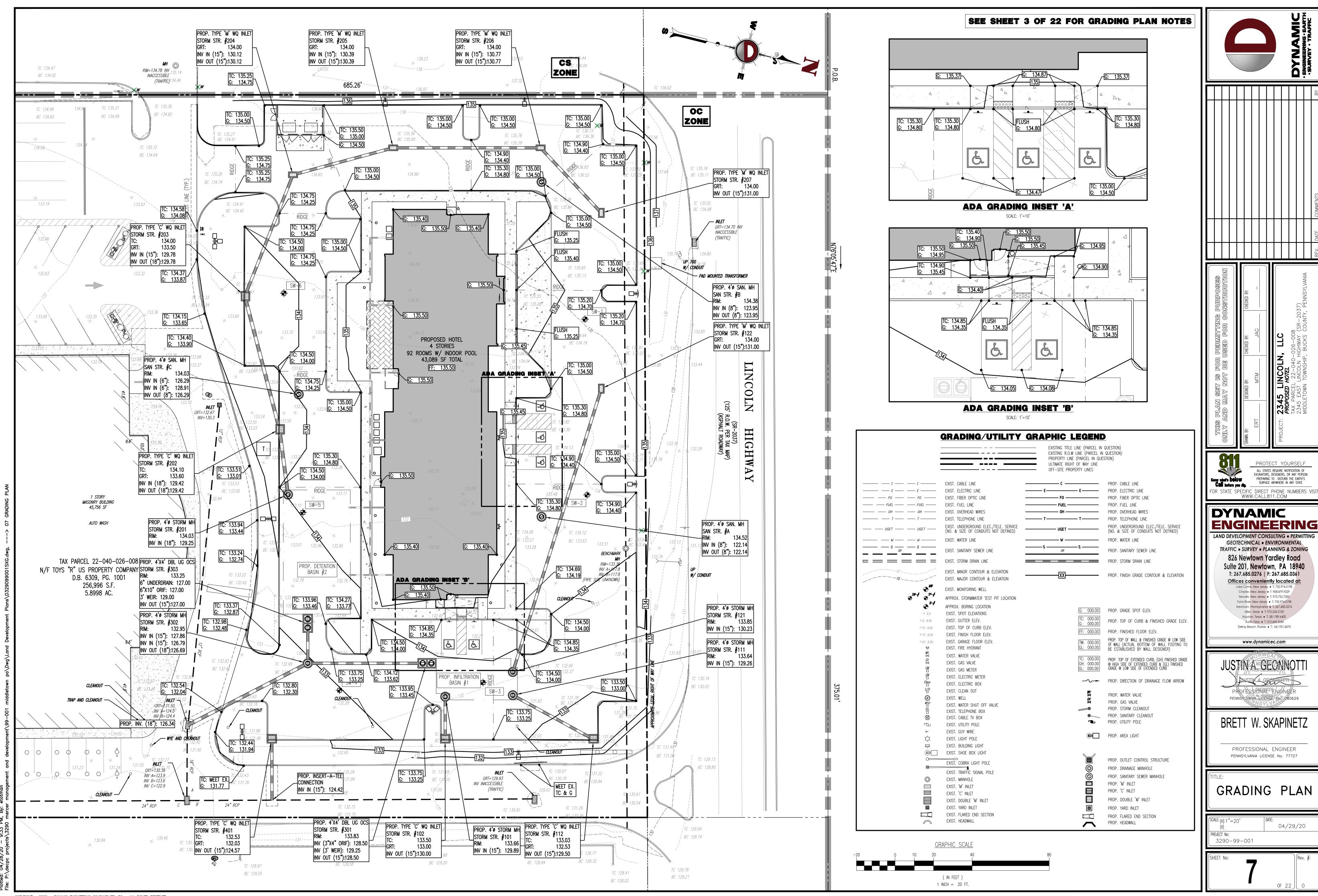
BRETT W. SKAPINETZ

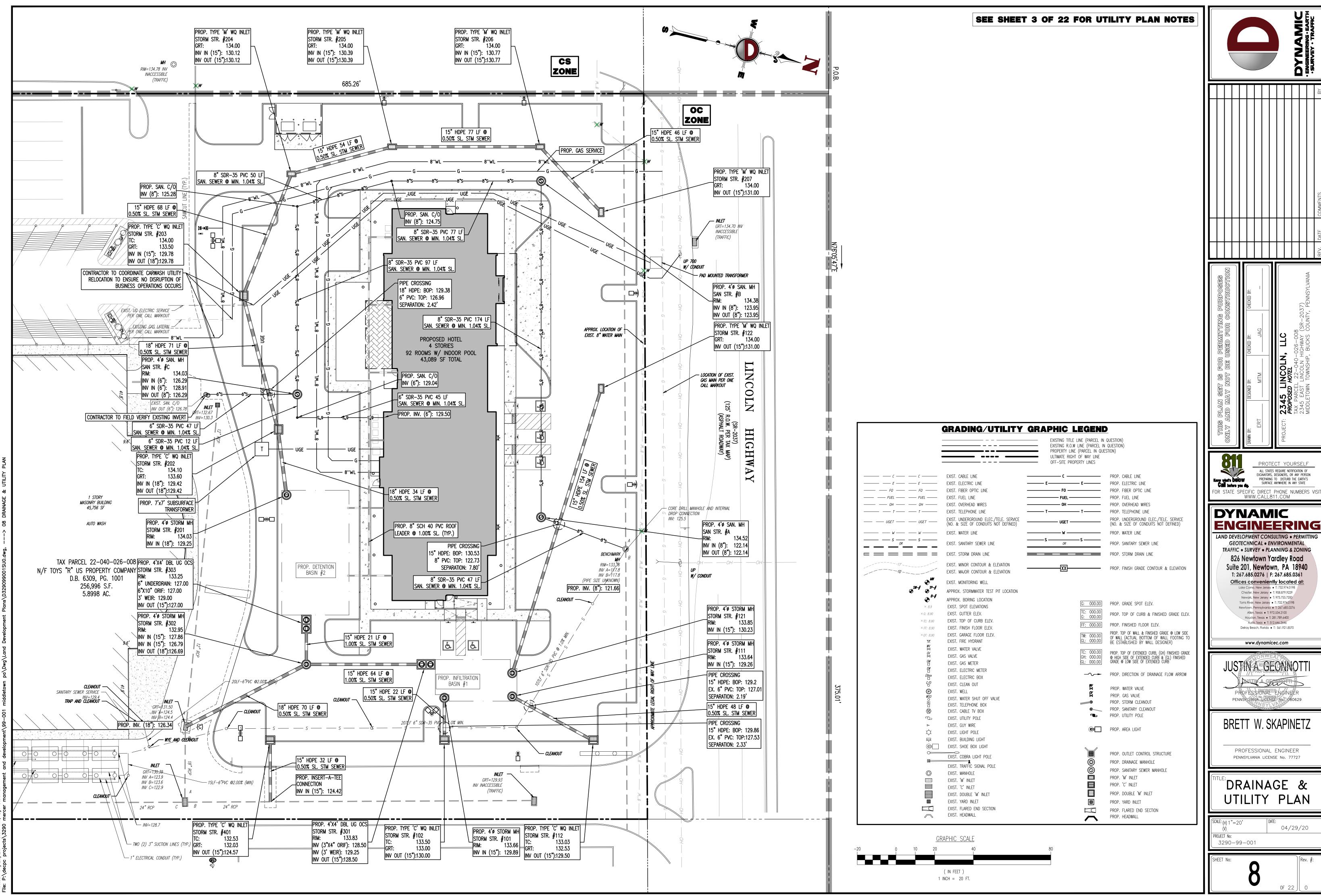
PROFESSIONAL ENGINEER PENNSYLVANIA LICENSE No. 77727

SITE PLAN (RECORD PLAN 3 OF 3)

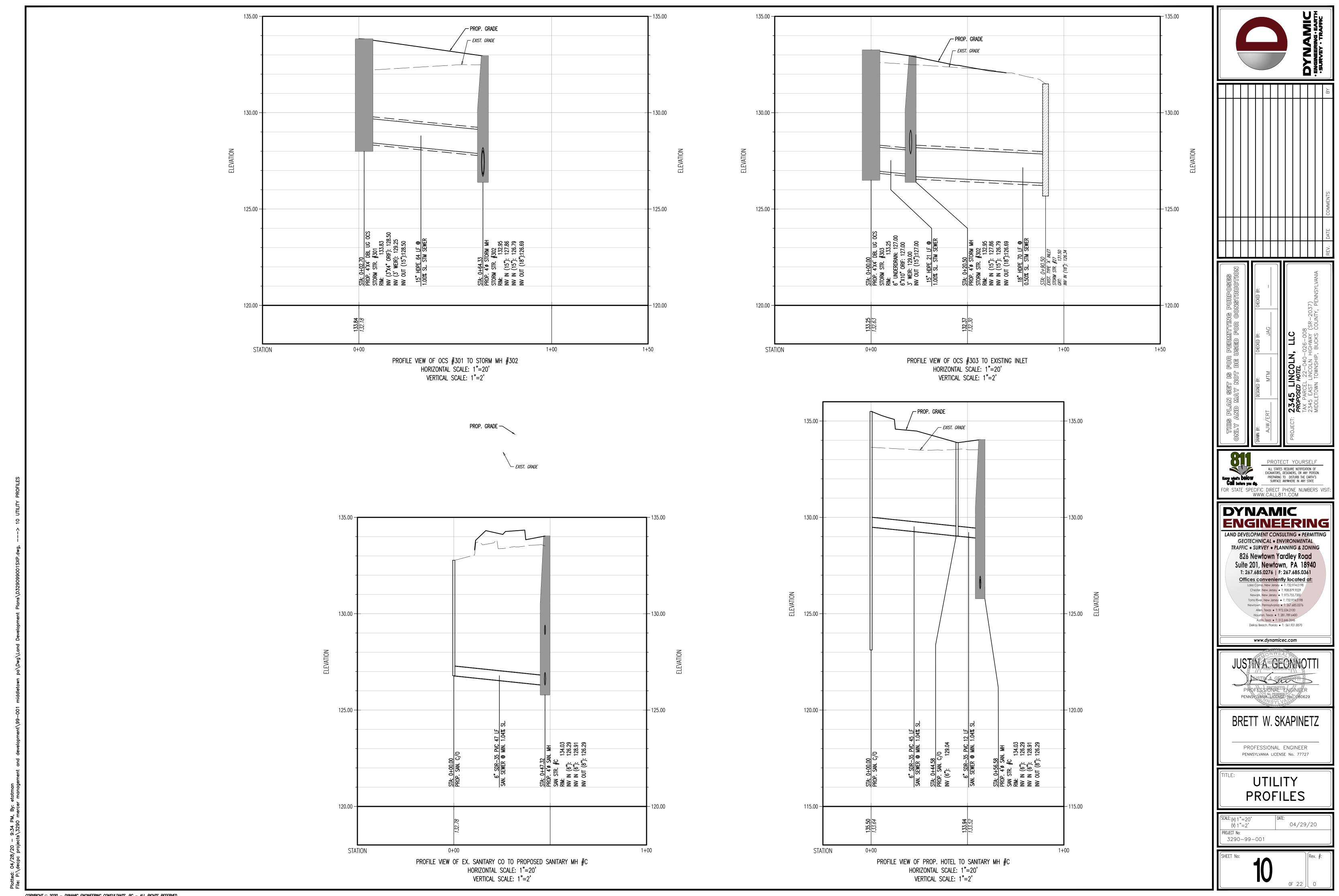
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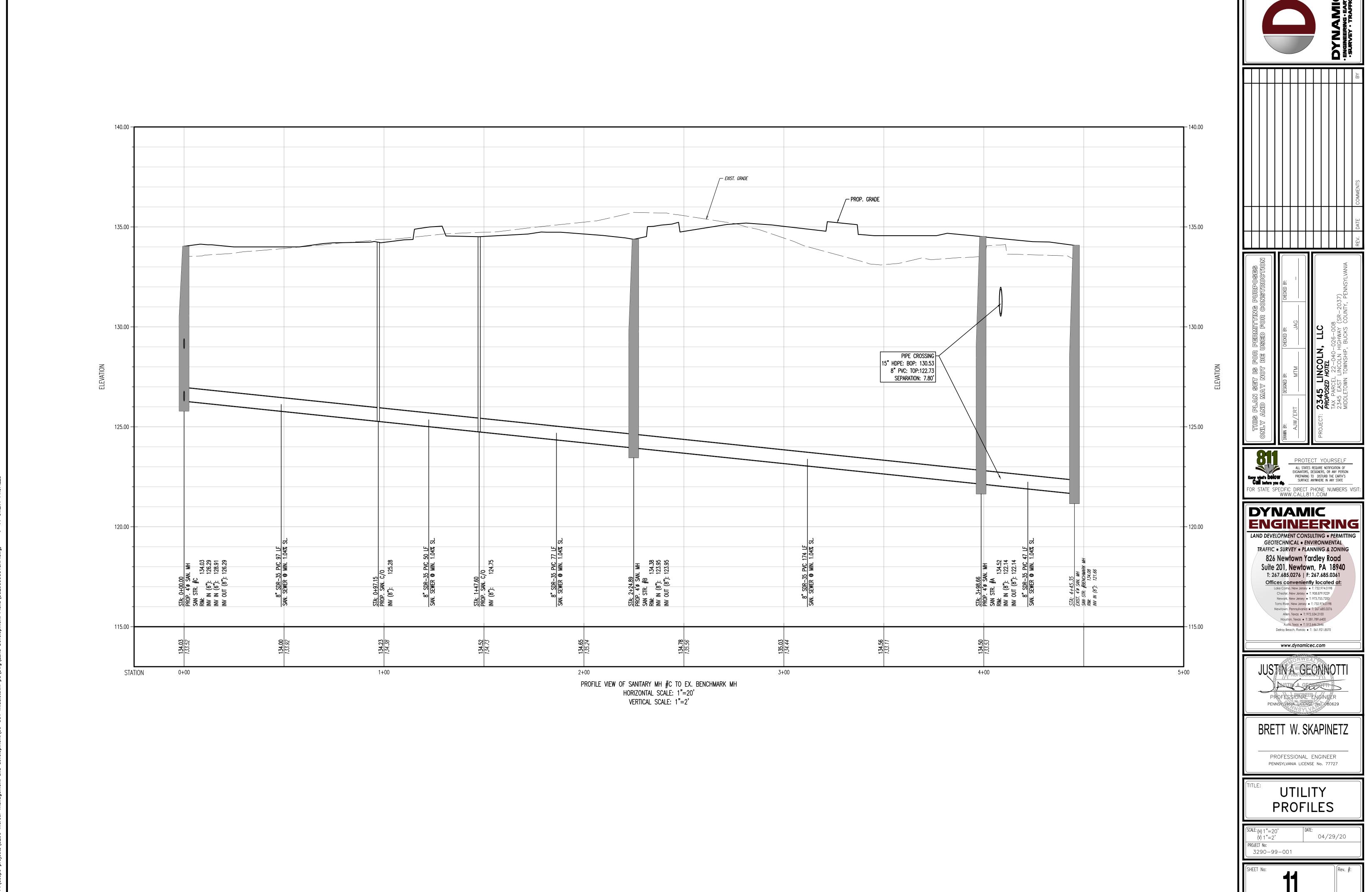
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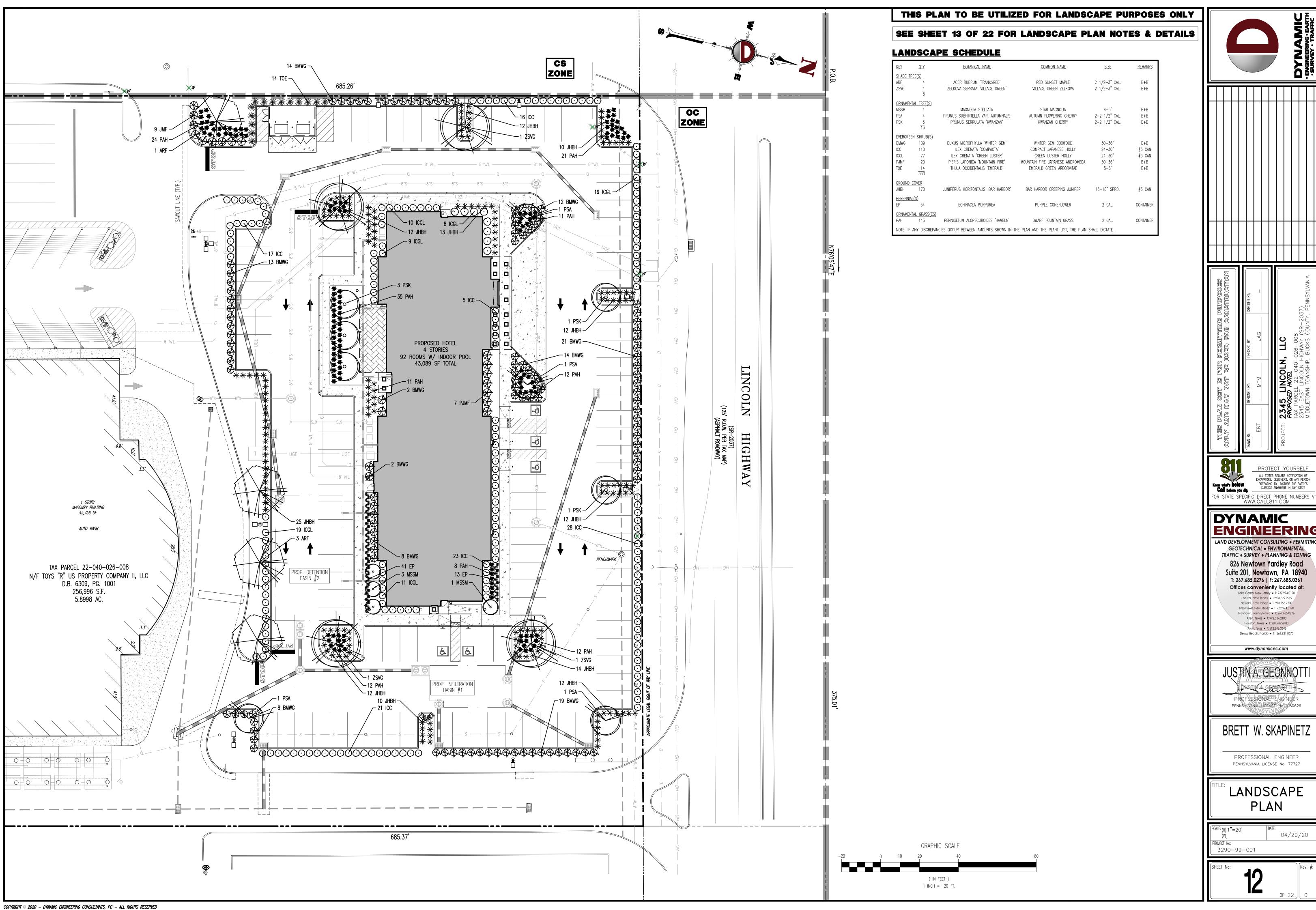








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**ENGINEERING** LAND DEVELOPMENT CONSULTING • PERMITTING GEOTECHNICAL • ENVIRONMENTAL TRAFFIC • SURVEY • PLANNING & ZONING

826 Newtown Yardley Road Suite 201, Newtown, PA 18940 T: 267.685.0276 | F: 267.685.0361 Offices conveniently located at: Toms River, New Jersey • T: 732.974.0198 Newtown, Pennsylvania • T: 267.685.0276

BRETT W. SKAPINETZ

PROFESSIONAL ENGINEER

04/29/20

#### THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

#### PLANTING NOTES

1. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTIALS, AND CLEAN-UP.

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

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

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

5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAN A THREE DAY PERIOD AFTER DELIVERY, MAY PLANTS SHALL HAVE A GUARANTEE EQUAL TO THAN A THREE DAY PERIOD AFTER DELIVERY, MAY PLANTS SHALL HAVE A GUARANTEE EQUAL TO THAN A THREE DAY PERIOD AFTER DELIVERY, MAY PLANTS SHALL BE ADDITIONAL TO THE DAY OF DELIVERY, MAY PLANTS SHALL BE ADDITIONAL TO THE DAY OF DELIVERY, MAY PLANTS SHALL BE ADDITIONAL TO THE DAY OF DELIVERY, MAY PLANTS SHALL BE ADDITIONAL TO THE DAY OF DELIVERY, MAY PLANTS SHALL BE ADDITIONAL TO THE DAY OF DELIVERY, MAY PLANTS SHALL BE ADDITIONAL TO THE DAY OF THE MATERIAL SHALL BE ADDITIONAL TO THE DAY OF THE MATERIAL SHALL BE ADDITIONAL TO THE DAY OF THE MATERIAL SHALL BE THE PLANTED IN A MENDED TOPOSIL THAT IS THOROUGHLY WAITED AND THAT A THREE DAY PERIOD AFTER DELIVERY, MAY PLANTS SHALL BE ADDITIONAL TO THE DAY OF THE MATERIAL SHALL BE THAT THE THE PLANT BY A MENDED TOPOSIL THAT IS THOROUGHLY WAITEDED AND TAMPED AS BACK FILLING PROGRESSES. PLANTING MIX TO BE AS SHOWN ON PLANTING SPECIFICATIONS.

9. PLANTS SHALL BE PLANTED IN A MENDED TOPOSIL THAT IS THOROUGHLY WAITEDED AND TAMPED AS BACK FILLING PROGRESSES

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

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

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

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

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

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

ACER RUBRUM
BETULA VARIETIES
CARPINUS VARIETIES
CARPINUS VARIETIES
CRATAEGUS VARIETIES
CRATAEGUS VARIETIES
KOELREUTERIA
LIQUIDAMBAR STYRACIFLUA
LIQUIDAMBAR STYRACIFLUA
LIRODENDRON TULIPIFERA

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

19. ALL DISTURBED AREAS TO BE TREATED WITH TOPSOIL SEED SOD STABILIZATION METHOD.

#### PLANTING SPECIFICATIONS

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

MATERIALS

A. GENERAL — ALL MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) MANUAL OF ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) OR APPROVED EQUAL.

AND BRIDGE CONSTRUCTION (LATEST EDITION) OR APPROVED EQUAL.

B. PLANTS – ALL PLANTS SHALL BE HEALTHY OR NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS.

C. TOPSOIL – LOAMY SILT, HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, pH RANGE BETWEEN 4.5 – 7, BE FREE OF DEBRIS, ROCKS LARGER THAN TWO INCHES (2"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.

D. MUICH – FOUR (4") INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH.

3. FERTILIZER AND SOIL CONDITIONER – PLANTED AREAS

A. ORGANIC FERTILIZER — SHALL BE PROCESSED SEWER SLUDGE WITH MINIMAL CONTENT OF 1% NITROGEN AND 2% PHOSPHORIC ACID, EQUAL TO 'NITROHUMIS'.

B. ORGANIC FERTILIZER AND SOIL CONDITIONER — SHALL BE 'GRO— POWER' AND ORGANIC BASE MATERIALS COMPRISED OF DECOMPOSED ANIMAL AND VEGETABLE MATTER AND COMPOSTED TO SUPPORT BACTERIAL CULTURES, CONTAINING NO POULTRY OR HUMAN WASTE. GUARANTEED ANALYSIS (5–3–1): NITROGEN 5%. PHOSPHATE 3%, POTASH 1%. 50% HUMUS AND 15% HUMIC ACIDS.

4. GENERAL WORK PROCEDURES

A. LANDSCAPE WORK SHALL COMMENCE AS SOON AS THOSE PORTIONS OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS IN

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

5. WEEDING

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

6. TOPSOILING

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

7. SOIL CONDITIONING:

A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 6". ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. SPREAD EVENLY IN ALL PLANTING AREAS AND TILL (2 DIRECTIONS) INTO TOP 4" WITH THE FOLLOWING PER 1,000 SQ. FT.:

20 POUNDS 'GRO-POWER'
100 POUNDS AGRICULTURAL GYPSUM
20 POUNDS NITROFORM (COURSE) 38-0-0 BLUE CHIP

A. THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS.

USE COMPOSTED BARK, RECYCLED YARD WASTE OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.5.

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

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

PLANTING

POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.

A. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACK FILLED WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:

1 PART PEAT MOSS BY VOLUME

1 PARTS TOPSOIL BY VOLUME

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

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

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

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

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

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

F. PRUNE ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS TO A MIN. OF 7' BRANCHING HEIGHT.

9. GROUND COVER

A. ALL GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING GROUND COVER.
B. SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.
C. IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.
D. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR

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

O. FINISH GRADING

A. ALL AREAS WILL BE RECEIVED BY THE CONTRACTOR AT SUBSTANTIALLY PLUS/MINUS .1 FOOT OF FINISH GRADE.

B. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY.

C. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.

DIRECTED BY LANDSCAPE ARCHITECT. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY.
C. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.
I. GUARANTEE
A. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM ACCEPTANCE OF JOB. OWNER TO SECURE A MAINTENANCE BOND FROM THE CONTRACTOR FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE COMMENCEMENT OF THE GUARANTEE PERIOD AND PASSES A FINAL INSPECTION BY THE OWNER OR OWNERS REPRESENTATIVE.

2. CLEANUP

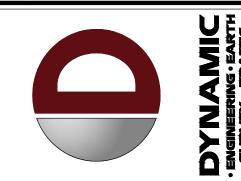
12. CLEANUP

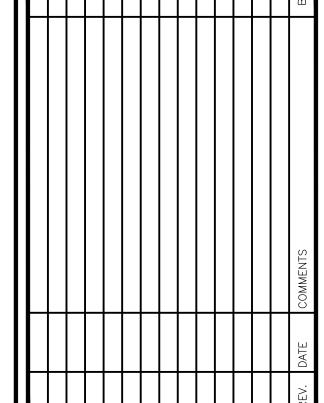
A. UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

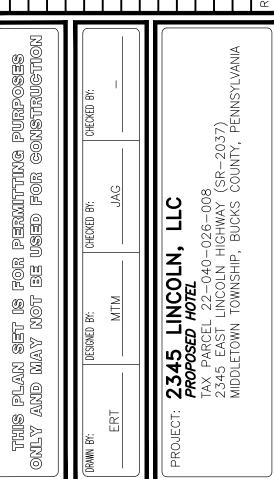
B. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY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

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

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









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JUSTIN A GEOMOTT

PROFESSIONALE ENGINEER
PENNS VANA LICENSE NO 80629

BRETT W. SKAPINETZ

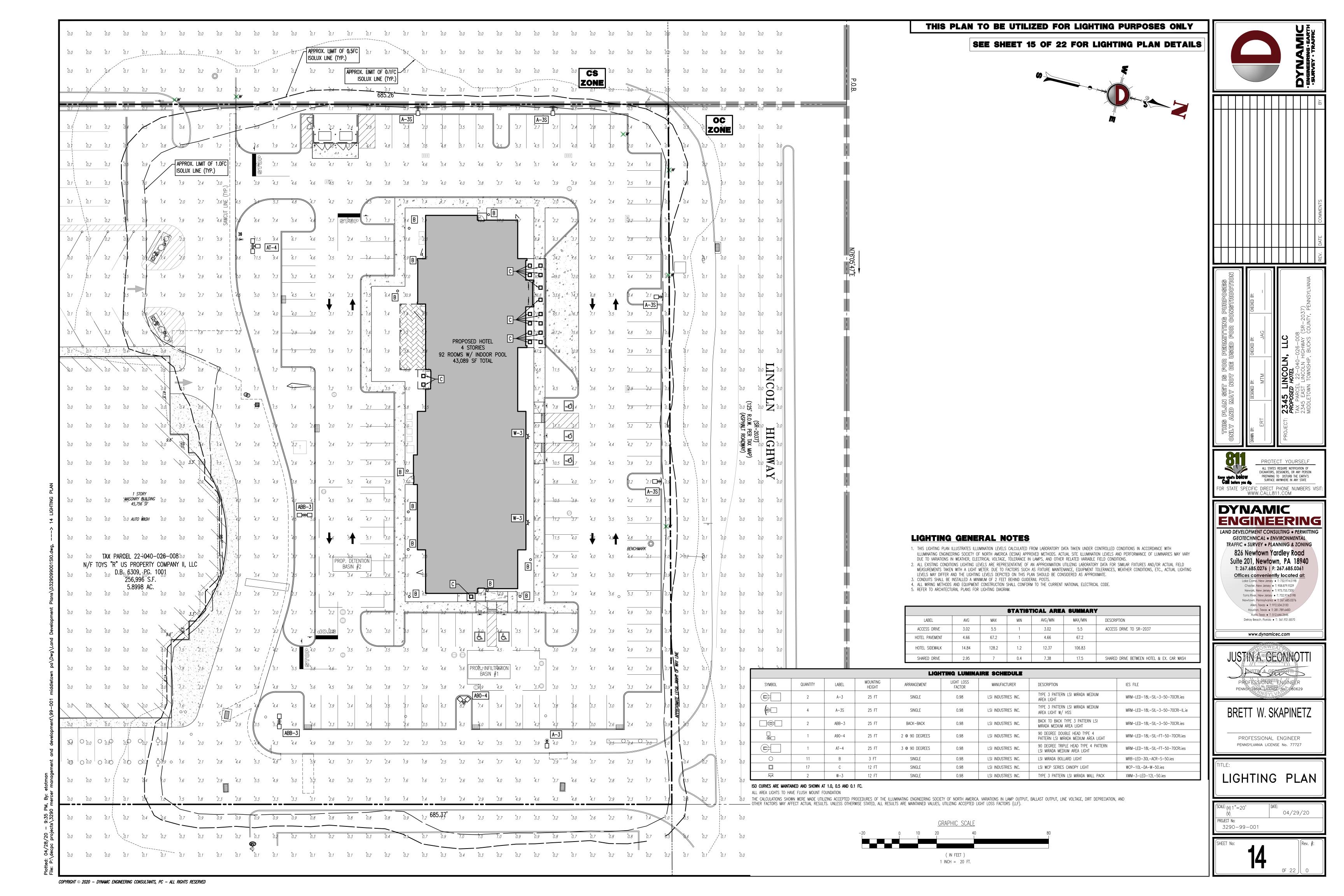
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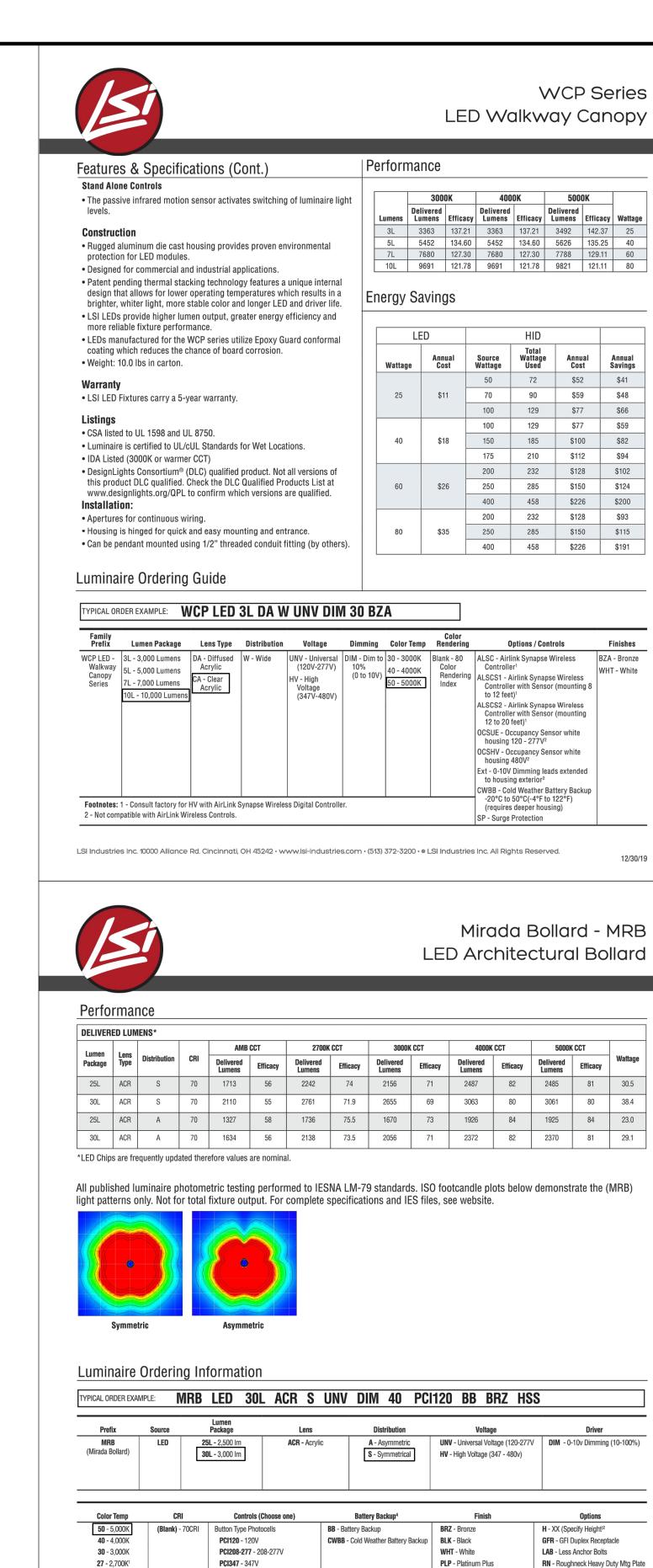
LANDSCAPE DETAILS

SCALE: (H) AS (V) SHOWN DATE: 04/29/20

PROJECT No: 3290-99-001

13





SVG - Satin Verde Green

2 - Standard height is 44". Non Standard heights are available in 6" increments. Minimum

height is 26", 32" with battery backup option. Maximum height is 62"

GPT - Graphite MSV - Metallic Silver

3 - Accessories are shipped seperately and field installed.

Consult Factory for availability.

HSS - House Side Shield

AMB - Phosphor

Converted Amber<sup>1</sup>

HSS - House Side Shield

Galvanized anchor Bolt kit

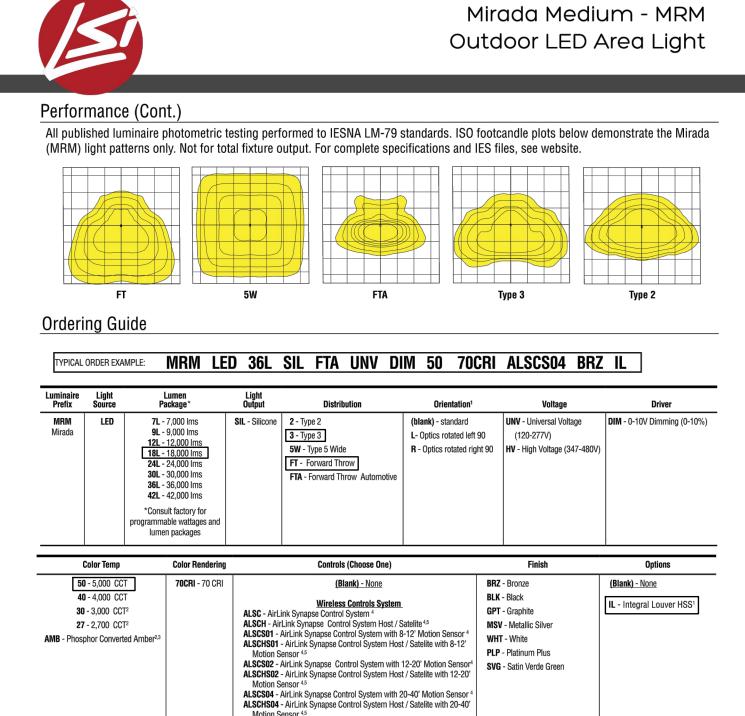
Description

Accessory Ordering Information<sup>3</sup>

Order Number

699105

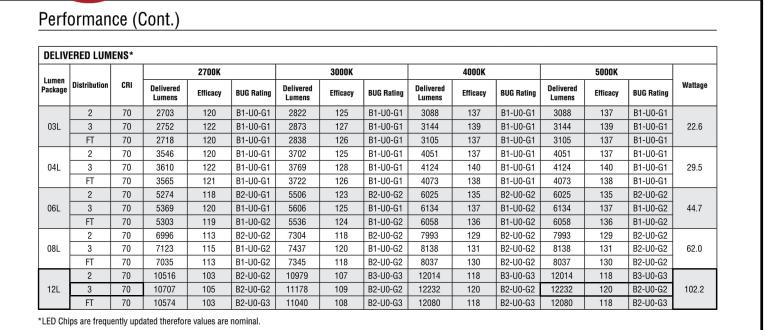
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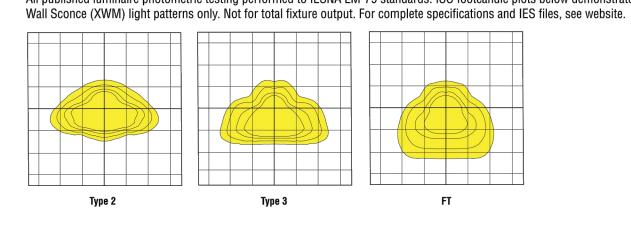


Mirada Wall Sconce - XWM Outdoor LED Wall Sconce

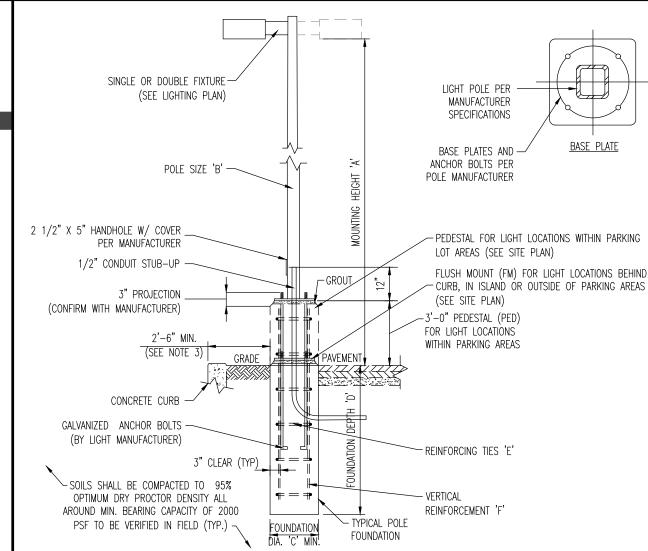


Photometrics

All published luminaire photometric testing performed to IESNA LM-79 standards. ISO footcandle plots below demonstrate the Mirada



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IOTE: 1. CONTRACTOR TO CONFIRM ALL LIGHT POLE & FIXTURE DIMENSIONS PRIOR TO CONSTRUCTION.
2. PROPOSED POLE IN COMBINATION WITH CONCRETE PEDESTAL TO EQUAL MOUNTING HEIGHT 'A'. ACTUAL POLE HEIGHT TO BE ADJUSTED ACCORDINGLY.
3. PROPOSED CONCRETE FOUNDATION AND POLE TO BE CONSTRUCTED WITHIN SUBJECT PROPERTY UNLESS OTHERWISE NOTED. SETBACK FROM CURB IS PREFERRED BUT TO BE ADJUSTED AS NEEDED TO PREVENT ENCROACHMENT OVER PROPERTY LINE.
4. BASE PLATE & ANCHOR BOLTS PER POLE MANUFACTURER. LARGER FOOTING DIAMETER AND/OR ALTERNATE ARANCEMENT OF REINFORCING STEEL MAY BE REQUIRED TO ACCOMMODATE ANCHOR BOLT CONFIGURATION. CONTRACTOR RESPONSIBLE TO COORDINATE DIMENSIONAL REQUIREMENTS FOR BASE PLATE, ANCHOR BOLTS & REINFORCING STEEL PRIOR TO CONSTRUCTION.

LIGHT	POLE FOUNDATION	SCHEDULE
MOUNTING HEIGHT ABOV	E GRADE 'A'	25'
POLE DIA. 'B'		6" SQUARE (OR PER MANUFACTURER)
# OF FIXTURES		SINGLE OR DOUBLE
FOUNDATION DIAMETER	'C'	18" DIA. ROUND
FOUNDATION DEPTH 'C	,	7.5'
REINFORCING TIES 'E'		#4 @ 12" O.C.
VERTICAL REINFORCEM	ENT 'F'	(6) #6 BARS EQUALLY SPACED

1. FOOTING DESIGN BASED ON ASSUMED MAXIMUM ALLOWABLE SOILS BEARING CAPACITY OF 2,000 SF PSF. CONTRACTOR RESPONSIBLE TO VERIFY ADEQUACY OF ASSUMED BEARING CAPACITY PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED IF INCONSISTENCIES EXIST.

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

CONCRETE NOTES

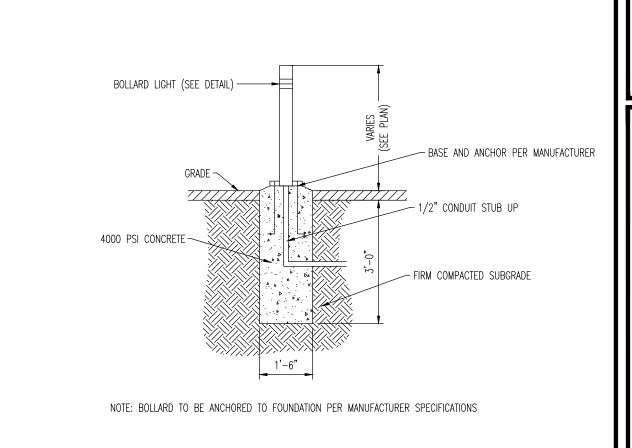
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PE CUBIC YARD FOR ALL FOOTINGS.

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.

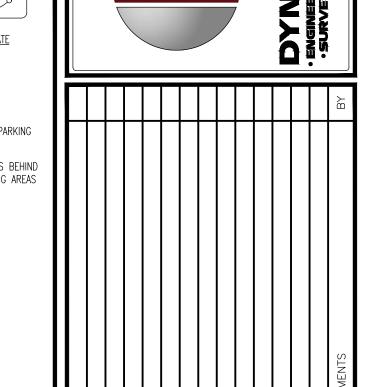
4. REINFORCING FRAMEWORK AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE ACI AND UNIFORM BUILDING CODE.

## AREA LIGHT FOUNDATION DETAIL



LIGHT BOLLARD FOUNDATION DETAIL

NOT TO SCALE



THIS PLAIN SET IS FOR PERMITTING PURPOSES

ONLY AND MAY NOT BE USED FOR CONSTRUCTION

ERT MAM BY:

CHECKED BY



PROTECT YOURSELF

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PROFESSIONAL DENS NO 580629

BRETT W. SKAPINETZ

PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 77727

LIGHTING DETAILS

SCALE: (H) AS DATE: (V) SHOWN 04/29/20

PROJECT No: 3290-99-001

15 OF 22

