

## **USGS MAP**

## PROPERTY OWNERS LIST

| BLOCK | LOT   | Property Location    | Owner Name                         | Mailing Address      | City, State        | Zip   |
|-------|-------|----------------------|------------------------------------|----------------------|--------------------|-------|
| 230   | 8     | 454 TAYLOR PLACE     | FITZPATRICK MARVIN & SHARON        | 454 TAYLOR PLACE     | NORTH BRUNSWICK NJ | 08902 |
| 230   | 9     | 444 TAYLOR PLACE     | RANA KUNJAN P & ROSHANI H          | 444 TAYLOR PLACE     | NORTH BRUNSWICK NJ | 08902 |
| 230   | 10    | 1694 MCKINLEY AVENUE | VINAR EUGENE                       | 1694 MCKINLEY AVENUE | NORTH BRUNSWICK NJ | 08902 |
| 230   | 11    | 1680 MCKINLEY AVENUE | MATIAS JUAN                        | 1680 MCKINLEY AVENUE | NORTH BRUNSWICK NJ | 08902 |
| 230   | 12    | 1670 MCKINLEY AVENUE | SCHACHNER JAIME D                  | 1670 MCKINLEY AVENUE | NORTH BRUNSWICK NJ | 08902 |
| 230   | 13    | 420 NIMITZ PLACE     | JASDHAUL HARMANPREET & RASHI A     | 420 NIMITZ PLACE     | NORTH BRUNSWICK NJ | 08902 |
| 230   | 14    | 414 NIMITZ PLACE     | BHUJANGE SHIVARAJ & GEETHA         | 414 NIMITZ PLACE     | NORTH BRUNSWICK NJ | 08902 |
| 230   | 16    | 1709 ROUTE 130       | MEKALA PROPERTIES LLC              | 3 BANKO FARM ROAD    | DAYTON NJ          | 08810 |
| 230   | 17    | 1709 ROUTE 130       | MEKALA PROPERTIES LLC              | 3 BANKO FARM ROAD    | DAYTON NJ          | 08810 |
| 230   | 18    | 1709 ROUTE 130       | MEKALA PROPERTIES LLC              | 3 BANKO FARM ROAD    | DAYTON NJ          | 08810 |
| 230   | 19    | 1709 ROUTE 130       | MEKALA PROPERTIES LLC              | 3 BANKO FARM ROAD    | DAYTON NJ          | 08810 |
| 230   | 20    | 431 CALVERT ROAD     | FEGGULIS SHIRLEY                   | 431 CALVERT ROAD     | NORTH BRUNSWICK NJ | 08902 |
| 230   | 21.01 | 435 CALVERT ROAD     | ANNAM AMRUTH K & MATILDA K         | 435 CALVERT ROAD     | NORTH BRUNSWICK NJ | 08902 |
| 230   | 21.02 | 437 CALVERT ROAD     | JAYARAM SHEKAR                     | 437 CALVERT ROAD     | NORTH BRUNSWICK NJ | 08902 |
| 230   | 22    | 439 CALVERT ROAD     | WOO KWAKSING                       | 439 CALVERT ROAD     | NORTH BRUNSWICK NJ | 08902 |
| 232   | 5     | 446 BEECHER PLACE    | WOODS CHRISTOPH C & JENNIFER R     | 446 BEECHER PLACE    | NORTH BRUNSWICK NJ | 08902 |
| 232   | 6     | 1687 MCKINLEY AVENUE | PERRY TERRY & HENRY KENDRA JUANITA | 1687 MCKINLEY AVENUE | NORTH BRUNSWICK NJ | 08902 |
| 235   | 1     | 1628 MCKINLEY AVENUE | MCGRADY WILLIAM & SHAKIRA          | 1628 MCKINLEY AVENUE | NORTH BRUNSWICK NJ | 08902 |
| 235   | 9.01  | ROUTE 130            | ROUTE 130 REALTY HOLDINGS LLC      | 278 FRESH PONDS ROAD | NORTH BRUNSWICK NJ | 08902 |
| 235   | 10    | 1645 ROUTE 130       | ROUTE 130 REALTY HOLDINGS LLC      | 278 FRESH PONDS ROAD | NORTH BRUNSWICK NJ | 08902 |
| 235   | 11    | ROUTE 130            | ROUTE 130 REALTY HOLDINGS LLC      | 278 FRESH PONDS ROAD | NORTH BRUNSWICK NJ | 08902 |
| 235   | 12    | 407 NIMITZ PLACE     | ROUTE 130 REALTY HOLDINGS LLC      | 278 FRESH PONDS ROAD | NORTH BRUNSWICK NJ | 08902 |
| 235   | 13    | 413 NIMITZ PLACE     | AGOSTO JOSE & LINDA                | 413 NIMITZ PLACE     | NORTH BRUNSWICK NJ | 08902 |
| 278   | 1     | 1674 ROUTE 130       | \$PSV LLC                          | 1674 RTE 130         | NORTH BRUNSWICK NJ | 08902 |
| 278   | 2     | 1670 ROUTE 130       | CHEREATH ROY & AMY                 | 2 JUMPING BROOK      | MONROE NJ          | 08831 |
| 278   | 3     | 1660 ROUTE 130       | KOLLURU NAGESH & GARIMELLA SATYA S | 1660 ROUTE 130       | NORTH BRUNSWICK NJ | 08902 |
| 278   | 5     | 1648 ROUTE 130       | RD ASSOCIATES LLC                  | PO BOX 6515          | MONROE TWP NJ      | 08831 |
| 282   | 1     | 1696 ROUTE 130       | 1696 ROUTE 130 LLC                 | 555 GEORGES ROAD     | DAYTON NJ          | 08810 |
| 283   | 1     | 1710 ROUTE 130       | MEKHAIEL FAMILY LLC                | 70 LARRY COURT       | DAYTON NJ          | 08810 |

## THE FOLLOWING OTHER AGENCIES MUST ALSO BE NOTIFIED

Middlesex County Planning Board County Administration Building 5th Floor 75 Bayard Street New Brunswick, NJ 08901

North Brunswick Township 710 Hermann Road North Brunswick, NJ 08902 Attn: Township Clerk

Public Service Electric & Gas Co. Manager – Corporate Properties 80 Park Place, T6B Newark, NJ 07102

N.J Gen. Tax Administration Broad Street - Room 305 Newark, NJ 07101

Cablevision of Raritan Valley 275 Centennial Avenue Piscataway, NJ 08855-6805

Department of Transportation State of New Jersey 1035 Parkway Trenton, NJ 08625 Attn: Margurite Prenderville

Construction Department Mr. Tim Allen Texas Eastern Transmission Corp. 501 Coolidge Street South Plainfield, NJ 07080

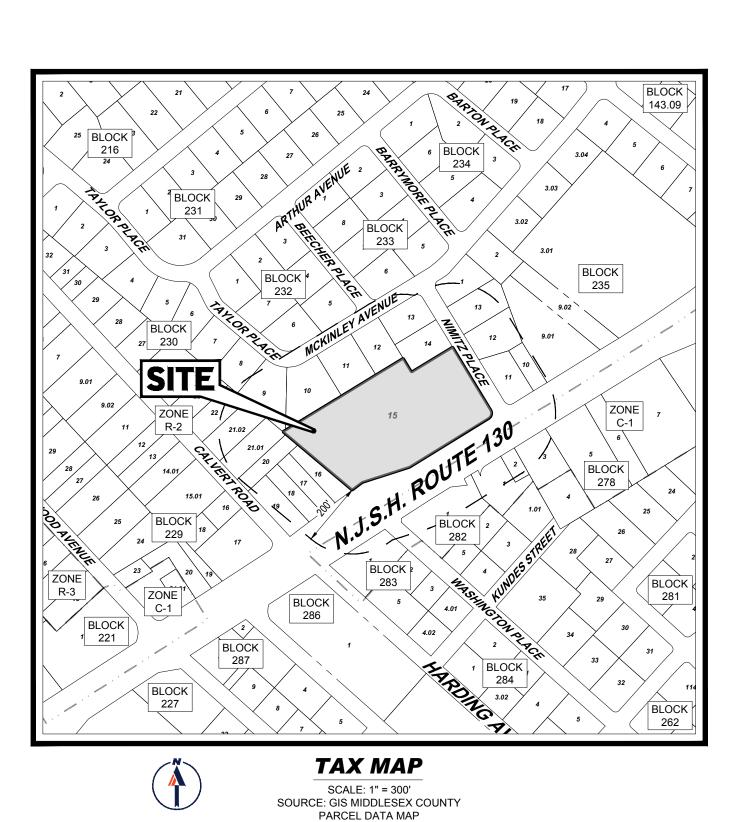
Sunoco Pipeline L.P. Right of Way Montello Complex 525 Fritztown Road Sinking Spring, PA 19608 PRELIMARY & FINAL SITE PLANS

# AMERICAN PROPERTIES AT NORTH BRUNSWICK, LLC

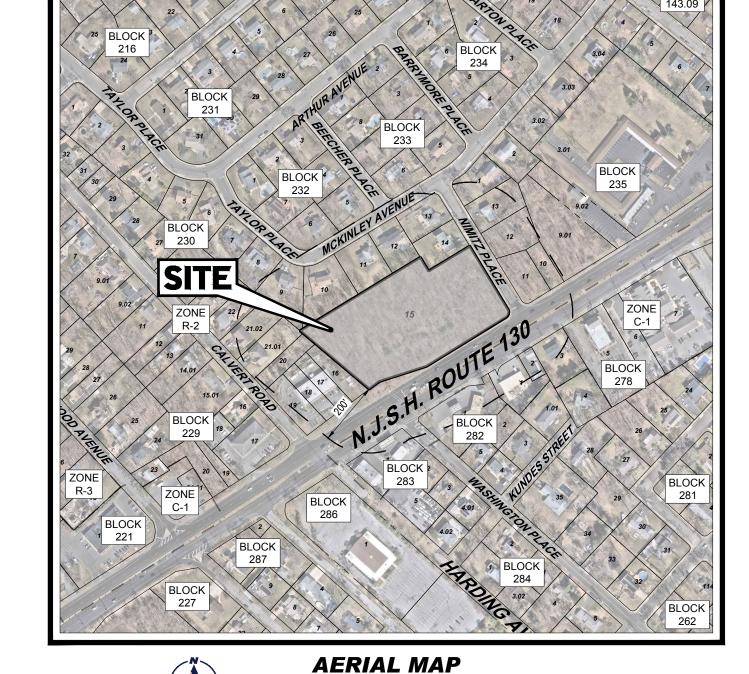
**PROPOSED** 

## QUICKCHEK FOOD STORE WITH FUEL SALES

**BLOCK: 230 | LOT:15** 1661-1689 ROUTE 130 TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY



**OWNER** OF THE ESTATE OF SANTO LABARBERA



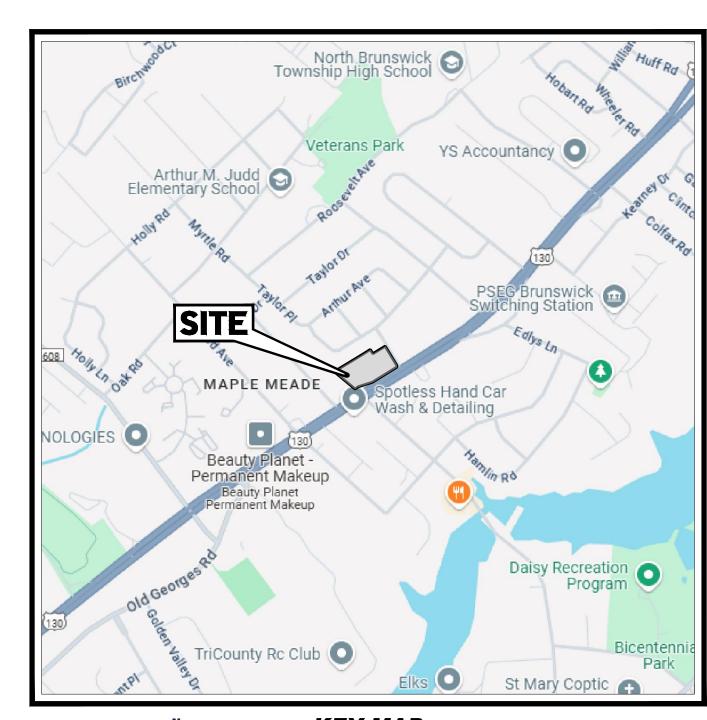
SCALE: 1" = 300'

SOURCE: NEARMAP (2025)

**APPLICANT** AMERICAN PROPERTIES AT NORTH BRUNSWICK LLC C/O GREG KANTER 517 ROUTE 1 SOUTH, SUITE 2100,

PREPARED BY





**KEY MAP** 

| SHEET INDEX   |               |  |  |  |  |  |
|---|---------------|--|--|--|--|--|
| SHEET TITLE   | SHEET NUMBER  |  |  |  |  |  |
| COVER SHEET   | C-101         |  |  |  |  |  |
| GENERAL NOTES AND LEGEND                            | C-102         |  |  |  |  |  |
| EXISTING CONDITIONS/DEMOLITION PLAN                 | C-201         |  |  |  |  |  |
| SITE PLAN   | C-301         |  |  |  |  |  |
| TRUCK TURNING PLAN (WB-50 FUEL)                     | C-302         |  |  |  |  |  |
| TRUCK TURNING PLAN (WB-50 LOAD)                     | C-303         |  |  |  |  |  |
| TRUCK TURNING PLAN (SU-40 TRASH)                    | C-304         |  |  |  |  |  |
| GRADING PLAN  | C-401         |  |  |  |  |  |
| DRAINAGE PLAN                                       | C-501         |  |  |  |  |  |
| UTILITY PLAN  | C-502         |  |  |  |  |  |
| SOIL EROSION AND SEDIMENT CONTROL PLAN              | C-801         |  |  |  |  |  |
| SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS | C-802         |  |  |  |  |  |
| DETAIL SHEETS (A-G)                                 | C-901 - C-907 |  |  |  |  |  |
| TREE REMOVAL PLAN                                   | L-101         |  |  |  |  |  |
| LANDSCAPE PLAN                                      | L-201         |  |  |  |  |  |
| LANDSCAPE NOTES AND DETAILS                         | L-202         |  |  |  |  |  |
| LIGHTING PLAN                                       | L-301         |  |  |  |  |  |
| LIGHTING NOTES AND DETAILS                          | L-302         |  |  |  |  |  |

| HYDROLOGIC SOIL GROUP EVALUATIONS AGEOENVIRONMENTAL, INC.  17 WORLDS FAIR DRIVE SOMERSET, NJ 08873 DATED: 05/24/2023  REPORT OF SUBSURFACE EXPLORATIONS REPORT OF SUBSURFACE EXPLORATIONS RESSMENT: RENCH & PARELLO ASSOCIATES 800 ROUTE 34, SUITE 101 VALL, NJ 07719 DATED: 04/24/2025  ARCHITECTURAL PLAN: BICK+A ARCHITECTS, PC 66 AMES AVENUE RUTHERFORD, NJ 07070 DATED: 04/10/2025  STORMWATER MANAGEMENT REPORT BOHLER 100 INDEPENDENCE BLVD., SUITE 200 VARREN, NJ 07059 DATED: 06/2025  STORMWATER MANAGEMENT FACILITY DEPERATIONS & MAINTENANCE MANUA BOHLER 100 INDEPENDENCE BLVD., SUITE 200 VARREN, NJ 07059 DATED: JUNE 2025  TRAFFIC IMPACT STUDY: STONEFIELD ENGINEERING & DESIGN, LLC   | REFERENCES                          |                                |
|--|-------------------------------------|--------------------------------|
| CONTROL POINT ASSOCIATES, INC. 10 INDEPENDENCE BLVD., SUITE 100 VARREN, NJ 07059 VARREN, NJ 07059 OB #: 01-150334-08 ELEVATIONS: NAVD 1988  VETLAND PLAN: VAN NOTE - HARVEY DIVISION OF PENNONI 03 COLLEGE ROAD EAST PRINCETON, NJ 08540 VATED: 03/17/2025  HYDROLOGIC SOIL GROUP EVALUATION EZA GEOENVIRONMENTAL, INC. 17 WORLDS FAIR DRIVE ESOMERSET, NJ 08873 VATED: 05/24/2023  REPORT OF SUBSURFACE EXPLORATION EXSESSMENT: RENCH & PARELLO ASSOCIATES 800 ROUTE 34, SUITE 101 VALL, NJ 07719 VALL, NJ 07719 VALL, NJ 07719 VATED: 04/24/2025  ARCHITECTURAL PLAN: EXCHARGA ARCHITECTS, PC 16 AMES AVENUE RUTHERFORD, NJ 07070 VATED: 04/10/2025  STORMWATER MANAGEMENT REPORT EXOHER 10 INDEPENDENCE BLVD., SUITE 200 VARREN, NJ 07059 VAR | BOUNDARY &                          | TOPOGRAPHIC SURVEY:            |
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| STORMWATER MANAGEMENT REPORT SOHLER SO INDEPENDENCE BLVD., SUITE 200 VARREN, NJ 07059 DATED: 06/2025 STORMWATER MANAGEMENT FACILITY DPERATIONS & MAINTENANCE MANUA SOHLER SOHLER SOHLER SOHLER STORMEN, NJ 07059 DATED: JUNE 2025 STRAFFIC IMPACT STUDY: STONEFIELD ENGINEERING & DESIGN, LLC 12 PARK AVENUE   |                                     |                                |
| GOHLER  10 INDEPENDENCE BLVD., SUITE 200  VARREN, NJ 07059  VARTED: 06/2025  STORMWATER MANAGEMENT FACILITY  DPERATIONS & MAINTENANCE MANUA  BOHLER  10 INDEPENDENCE BLVD., SUITE 200  VARREN, NJ 07059  VARREN, NJ 07059  VARTED: JUNE 2025  FRAFFIC IMPACT STUDY:  STONEFIELD ENGINEERING & DESIGN, LLC  12 PARK AVENUE  | DATED: 04/10/2025                   |                                |
| GOHLER  10 INDEPENDENCE BLVD., SUITE 200  VARREN, NJ 07059  VARTED: 06/2025  STORMWATER MANAGEMENT FACILITY  DPERATIONS & MAINTENANCE MANUA  BOHLER  10 INDEPENDENCE BLVD., SUITE 200  VARREN, NJ 07059  VARREN, NJ 07059  VARTED: JUNE 2025  FRAFFIC IMPACT STUDY:  STONEFIELD ENGINEERING & DESIGN, LLC  12 PARK AVENUE  | ♦ STORMWATER                        | R MANAGEMENT REPORT:           |
| VARREN, NJ 07059 DATED: 06/2025  STORMWATER MANAGEMENT FACILITY DPERATIONS & MAINTENANCE MANUA SOHLER 0 INDEPENDENCE BLVD., SUITE 200 VARREN, NJ 07059 DATED: JUNE 2025  FRAFFIC IMPACT STUDY: STONEFIELD ENGINEERING & DESIGN, LLC 12 PARK AVENUE   | BOHLER                              |                                |
| CATED: 06/2025  STORMWATER MANAGEMENT FACILITY DPERATIONS & MAINTENANCE MANUA SOHLER 10 INDEPENDENCE BLVD., SUITE 200 VARREN, NJ 07059 DATED: JUNE 2025  TRAFFIC IMPACT STUDY: STONEFIELD ENGINEERING & DESIGN, LLC 12 PARK AVENUE   |                                     |                                |
| DPERATIONS & MAINTENANCE MANUA SOHLER SO INDEPENDENCE BLVD., SUITE 200 VARREN, NJ 07059 DATED: JUNE 2025 FRAFFIC IMPACT STUDY: STONEFIELD ENGINEERING & DESIGN, LLC 12 PARK AVENUE   | WARREN, NJ 0705<br>DATED: 06/2025   | 9                              |
| DPERATIONS & MAINTENANCE MANUA SOHLER SO INDEPENDENCE BLVD., SUITE 200 VARREN, NJ 07059 DATED: JUNE 2025 FRAFFIC IMPACT STUDY: STONEFIELD ENGINEERING & DESIGN, LLC 12 PARK AVENUE   | ▲ CTODN4\4/4TCC                     |                                |
| SOHLER  10 INDEPENDENCE BLVD., SUITE 200  VARREN, NJ 07059  DATED: JUNE 2025  FRAFFIC IMPACT STUDY:  STONEFIELD ENGINEERING & DESIGN, LLC  12 PARK AVENUE  |                                     |                                |
| O INDEPENDENCE BLVD., SUITE 200 VARREN, NJ 07059 DATED: JUNE 2025  FRAFFIC IMPACT STUDY: STONEFIELD ENGINEERING & DESIGN, LLC 12 PARK AVENUE   |                                     | a IVIAIIN I EINAINCE IVIAINUAL |
| VARREN, NJ 07059 DATED: JUNE 2025  FRAFFIC IMPACT STUDY: STONEFIELD ENGINEERING & DESIGN, LLC 12 PARK AVENUE   |                                     | E BLVD., SUITE 200             |
| TRAFFIC IMPACT STUDY:<br>STONEFIELD ENGINEERING & DESIGN, LLC<br>12 PARK AVENUE  | WARREN, NJ 0705                     | 59                             |
| TONEFIELD ENGINEERING & DESIGN, LLC<br>12 PARK AVENUE  | DATED: JUNE 2025                    | 5                              |
| TONEFIELD ENGINEERING & DESIGN, LLC<br>12 PARK AVENUE  | ♦TRAFFIC IMPA                       | ACT STUDY:                     |
|  | STONEFIELD ENG                      | SINEERING & DESIGN, LLC        |
| KUTHERFORD. NJ 07070   | 92 PARK AVENUE                      |                                |
| •  | RUTHERFORD, NJ<br>DATED: 05/30/2029 |                                |

INCORPORATED BY REFERENCE AS PART OF THESE PLANS, HOWEVER, BOHLER ENGINEERING DOES NOT CERTIFY THE ACCURACY OF THE WORK REFERENCED OR DERIVED FROM THESE DOCUMENTS, BY OTHERS. **REVISIONS** 



CAD I.D.: P-CIVL-CNDS

PRELIMINARY & FINAL SITE PLANS

**AMERICAN** PROPERTIES AT NORTH **BRUNSWICK. LLC** 

PROPOSED QUICKCHEK FOOD STORE WITH FUEL SALES

BLK: 230 | LOT:15 1661-1689 ROUTE 130 **TOWNSHIP OF NORTH BRUNSWICK** MIDDLESEX COUNTY, NEW JERSEY

30 INDEPENDENCE BLVD., SUITE 20 **WARREN, NJ 07059** Phone: (908) 668-8300 www.BohlerEngineering.com

NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH000

T. LAM

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 47863 NEW YORK LICENSE No. 092942 CONNECTICUT LICENSE No. 30024

PENNSYLVANIA LICENSE No. 76746

**COVER** SHEET

C-101

ORG. DATE - 06/10/2025

IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT ORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE IE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD II RITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE PTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND

THE PROFESSIONAL OF RECORD AND BOHLER HARMLESS FOR AND FROM ALL INJURIES, CLAIMS AND DAMAGES THAT PROFESSIONAL OF RECORD ALL CONTRACTORS MUST CARRY AT LEAST THE MINIMUM AMOUNT OF THE SPECIFIED AND COMMERCIALLY REASONABLE STATUTORY WORKER'S UMBRELLA COVERAGES, ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER. AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AS ADDITIONAL NAMED INSUREDS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE (DEFEND, IF APPLICABLE) AND HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED AND AGREED TO BY THE CONTRACTOR HEREIN. ALL CONTRACTORS MUST FURNISH BOHLER WITH CERTIFICATIONS OF INSURANCE OR CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE COVERAGES PRIOR TO COMMENCING ANY WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION AND FOR TWO YEARS AFTER THE COMPLETION OF CONSTRUCTION AND AFTER ALL PERMITS ARE ISSUED, WHICHEVER DATE IS LATER. IN ADDITION, ALL CONTRACTORS AGREE THAT THEY WILL, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, INDEMNIFY, DEFEND AND HOLD HARMLESS BOHLER AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, INJURIES, CLAIMS, ACTIONS PENALTIES EXPENSES PUNITIVE DAMAGES TORT DAMAGES STATUTORY CLAIMS STATUTORY CAUSES OF ACTION LOSSES CAUSES OF ACTION LIABILITIES OR COSTS, INCLUDING BUT NOT LIMITED TO REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY. CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTOR(S), ALL CLAIMS BY THIRD PARTIES AND ALL

NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER, NOR THE PRESENCE OF BOHLER AND/OR ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE (HEREIN "BOHLER PARTIES"). RELIEVES OR WILL RELIEVE THE CONTRACTOR OF AND FROM CONSTRUCTION MEANS. METHODS. SEQUENCE. TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING. OVERSEEING. SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE WITH ALL HEALTH AND SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH IURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER PARTIES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER (OR ANY RESPONSIBILITY FOR) ANY CONSTRUCTION, THE CONTRACTOR OR ITS EMPLOYEES RELATING TO THEIR WORK AND ANY AND ALL HEALTH AND SAFETY PROGRAMS OR PROCEDURES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR MUST INDEMNIFY, DEFEND PROTECT AND HOLD HARMLESS BOHLER PARTIES FOR AND FROM ANY LIABILITY TO BOHLER PARTIES RESULTING FROM THE CONTRACTOR'S WORK, SERVICES AND/OR VIOLATIONS OF THIS NOTE, THESE NOTES OR ANY NOTES IN THE PLAN SET AND, FURTHER, THE CONTRACTOR MUST NAME BOHLER AS AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE AS DESCRIBED ABOVE. WHEN IT IS CLEARLY AND SPECIFICALLY WITHIN BOHLER'S SCOPE OF SERVICES CONTRACT WITH THE OWNER/DEVELOPER, BOHLER WILL REVIEW 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 EVALUATING CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE **SITE LAYOUT NOTES** RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME. BOHLER WILL PERFORM ITS SHOP DRAWING REVIEW WITH REASONABLE PROMPTNESS, AS CONDITIONS PERMIT. ANY DOCUMENT, DOCUMENTING BOHLER'S REVIEW OF A SPECIFIC ITEM C LIMITED SCOPE, MUST NOT INDICATE THAT BOHLER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR MUST, IN WRITING, PROMPTLY AND IMMEDIATELY BRING ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS TO BOHLER'S ATTENTION. BOHLER IS NOT REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

IF THE CONTRACTOR DEVIATES FROM THESE PLANS AND/OR SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE PROFESSIONAL OF RECORD AND BOHLER FOR ALL DEVIATIONS WITHIN PROFESSIONAL OF RECORD'S SCOPE, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK PERFORMED WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND FURTHER MUST DEFEND INDEMNIEY PROTECT, AND HOLD HARMLESS THE PROFESSIONAL OF RECORD AND BOHLER PARTIES TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, FOR AND FROM ALL FEES, ATTORNEYS' FEES, DAMAGES. COSTS, JUDGMENTS, CLAIMS, INJURIES, PENALTIES AND THE LIKE RELATED TO SAME. THE CONTRACTOR IS RESPONSIBLE FOR A MAINTAINING AND PROTECTING THE TRAFFIC CONTROL PLAN AND ELEMENTS IN ACCORDANCE WITH

FOR THIS ITEM MUST BE INCLUDED IN THE CONTRACTOR'S PRICE AND IS THE CONTRACTOR'S SOLE RESPONSIBILITY OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS IN STRICT ACCORDANCE WITH THE APPROVED PLAN(S) AND DESIGN: AND. FURTHER. THE PROFESSIONAL OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRÉSERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIF) AND HOLD THE PROFESSIONAL OF RECORD AND BOHLER PARTIES, HARMLESS FOR ALL INJURIES, DAMAGES AND COSTS THAT PROFESSIONAL OF RECORD AND BOHLER INCUR AS A RESULT OF SAID FAILURE OR FAILURE TO PRESERVE.

FEDERAL, STATE, AND LOCAL REQUIREMENTS, FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE RIGHT OF WAY OR ON SITE. THE COST

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES AND MATERIALS COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS, LAWS, ORDINANCES, AND CODES, AND ALL APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 ET SEQ.) AS AMENDED, AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS

THE CONTRACTOR MUST STRICTLY COMPLY WITH THE LATEST AND CURRENT OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION OVER EXCAVATION AND TRENCHING PROCEDURES. PROFESSIONAL OF RECORD AND BOHLER HAS NO RESPONSIBILITY FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES AND WORK THE CONTRACTOR AND THE OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS. IF THE CONTRACTOR AND/OR OWNER FAIL TO

COSTS THAT PROFESSIONAL OF RECORD INCURS AS A RESULT OF SAID FAILURE. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN AN ON-SITE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPILIANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS OR LOCAL GOVERNING AGENCY FOR SITES WHERE ONE (1) ACRE OR MORE IS DISTURBED BY CONSTRUCTION ACTIVITIES (UNLESS THE LOCAL JURISDICTION REQUIRES A DIFFERENT THRESHOLD). THE CONTRACTOR MUST ENSURE THAT ALL ACTIVITIES, INCLUDING THOSE OF ALL SUBCONTRACTORS, ARE IN COMPLIANCE WITH THE SWPPP, INCLUDING BUT NOT LIMITED OGGING ACTIVITIES (MINIMUM ONCE PER WEEK AND AFTER RAINFALL EVENTS) AND CORRECTIVE MEASURES, AS APPROPRIATE AND FURTHER,

THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR FAILING TO DO SO.

AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED DOCUMENTS PREPARED BY THE PROFESSIONAL OF RECORD AND BOHLER. THE LISE OF THE WORDS 'CERTIFY' OR 'CERTIFICATION' CONSTITUTE(S) AN EXPRESSION ONLY OF PROFESSIONAL OPINION REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE PROFESSIONAL OF RECORD'S AND BOHLER KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON AND ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE OF ANY NATURE OR TYPE, EITHER EXPRESSED OR IMPLIED, UNDER ANY CIRCUMSTANCES

DO SO, THEY AGREE TO JOINTLY, INDEPENDENTLY, SEPARATELY, COLLECTIVELY, AND SEVERALLY INDEMNIFY, DEFEND, PROTECT AND HOLD

PROFESSIONAL OF RECORD AND BOHLER PARTIES HARMLESS FOR ALL INJURIES AND DAMAGES THAT PROFESSIONAL OF RECORD SUFFERS AND

**DEMOLITION NOTES** 

THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES. IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES. THE CONTRACTOR MUST CONDUCT DEMOLITION/REMOVALS ACTIVITIES IN SUCH A MANNER AS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND ALL OTHER ADJACENT FACILITIES, THE CONTRACTOR MUST OBTAIN ALL APPLICABLE PERMITS FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY(IES) PRIOR TO THE

COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT TO THE RIGHT-OF-WA WHEN DEMOLITION-RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROADWAY RIGHT-OF-WAY, THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), AND THE FEDERAL, STATE, AND LOCAL REGULATIONS

THE DEMOLITION (AND/OR REMOVALS) PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION AND TO IDENTIFY ONLY ONDITIONS REGARDING ITEMS TO BE DEMOLISHED, REMOVED, AND/OR TO REMAIN. THE CONTRACTOR MUST ALSO REVIEW ALL CONSTRUCTION DOCUMENTS AND INCLUDE WITHIN THE DEMOLITION ACTIVITIES

ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS THIS PLAN IS NOT INTENDED TO AND DOES NOT PROVIDE DIRECTION REGARDING THE MEANS METHODS. SEQUENCING TECHNIQUES AND PROCEDURES TO BE EMPLOYED TO ACCOMPLISH THE WORK, ALL MEANS, METHODS, SEQUENCING CHNIQUES AND PROCEDURES TO BE USED MUST BE IN STRICT ACCORDANCE AND CONFORMANCE WITH ALL STATE. FEDERAL LOCAL AND JURISDICTIONAL REQUIREMENTS THE CONTRACTOR MUST COMPLY WITH ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE FOR THE CONTRACTOR AND THE PUBLIC. THE CONTRACTOR MUST PROVIDE ALL "METHODS AND MEANS" NECESSARY TO PREVENT MOVEMENT SETTLEMENT OR

COLLAPSE OF EXISTING STRUCTURES. AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE CONTRACTOR AT THE CONTRACTOR'S SOLE COST, MUST REPAIR ALL DAMAGE TO ALL ITEMS AND FEATURES THAT ARE TO REMAIN. CONTRACTOR MUST USE NEW MATERIAL FOR ALL REPAIRS. CONTRACTOR'S REPAIRS MUST INCLUDE THE RESTORATION OF ALL ITEMS AND FEATURES REPAIRED TO THEIR PRE-DEMOLITION CONDITION, OR BETTER. CONTRACTOR MUST PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE THE PROFESSIONAL OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. THE CONTRACTOR MUST PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER COMPLYING WITH ALL OSHA

THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY, WHICH MUST INCLUDE, BUT IS NOT LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING, OTHER APPROPRIATE AND/OR NECESSARY SAFETY FEATURES AND ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF ALL UNAUTHORIZED PERSONS AT ANY TIME. TO OR NEAR THE DEMOLITION AREA. PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY, THE CONTRACTOR MUST. IN WRITING RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS AND/OR SPECIFICATIONS. ALL CONCERNS OR QUESTIONS REGARDING THE APPLICABLE SAFETY STANDARDS, AND/OR THE SAFETY OF THE CONTRACTOR AND/OR THIR

REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY AND SAFETY TO ALL PROPERTY ON THE SITE OR ADJACENT OR

PARTIES IN PERFORMING THE WORK ON THIS PROJECT. ANY SUCH CONCERNS MUST BE CONVEYED TO THE PROFESSIONAL OF RECORD AND BOHLER. IN WRITING AND MUST ADDRESS ALL ISSUES AND ITEMS RESPONDED TO. BY THE PROFESSIONAL OF RECORD AND BY BOHLER. IN WRITING, ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AND/OR DISCONNECTION AS IDENTIFIED OR REQUIRED FOR THE PROJECT. THE CONTRACTOR MUST PROVIDE THE OWNER WITH WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED. REMOVED AND/OR ABANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY

COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.

PRIOR TO COMMENCING ANY DEMOLITION, THE CONTRACTOR MUST OBTAIN ALL REQUIRED PERMITS AND MAINTAIN THE SAME ON SITE FOR REVIEW BY THE PROFESSIONAL OF RECORD AND ALL PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK, AND DEMOLITION B. NOTIFY, AT A MINIMUM, THE MUNICIPAL ENGINEER, DESIGN ENGINEER, AND LOCAL SOIL CONSERVATION JURISDICTION, AT LEAST 72 BUSINESS HOURS PRIOR TO THE COMMENCEMENT OF WORK. INSTALL THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE, AND MAINTAIN

SAID CONTROLS UNTIL SITE IS STABILIZED. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR MUST CALL THE STATE ONE-CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARK OUT. IN ADVANCE OF ANY EXCAVATION. LOCATE AND PROTECT ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN AND ADJACENT TO THE LIMITS OF PROJECT ACTIVITIES. THE CONTRACTOR MUST USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY

NOTIFICATION SYSTEM TO LOCATE ALL UNDERGROUND UTILITIES

DEMOLITION ACTIVITIES ARRANGE FOR AND COORDINATE WITH THE APPLICABLE LITHLITY SERVICE PROVIDER(S) FOR THE TEMPORARY OR PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT PLANS AND SPECIFICATIONS REGARDING THE METHODS AND MEANS TO CONSTRUCT SAME. THESE ARE NOT THE PROFESSIONAL OF RECORD'S OR BOHLER RESPONSIBILITY. IN THE EVENT OF ABANDONMENT, THE CONTRACTOR MUST PROVIDE THE UTILITY ENGINEER AND OWNER NITH IMMEDIATE WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPANY REQUIREMENTS.

ARRANGE FOR AND COORDINATE WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) REGARDING WORKING "OFF-PEAK"

PROTECT AND MAINTAIN IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ANY

HOURS OR ON WEEKENDS AS NECESSARY OR AS REQUIRED TO MINIMIZE THE IMPACT ON, OF, AND TO THE AFFECTED PARTIES. WORK REQUIRED TO BE PERFORMED "OFF-PEAK" IS TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL. THE REMOVAL OF WHICH IS NOT ADDRESSED IN THE PROJECT PLANS AND SPECIFICATIONS OR THE CONTRACT WITH THE OWNER/DEVELOPER, THE CONTRACTOR MUST IMMEDIATELY CEASE ALL WORK IN THE AREA OF DISCOVERY, AND IMMEDIATELY NOTIFY, IN WRITING AND VERBALLY, THE OWNER, PROFESSIONAL OF RECORD AND BOHLER, THE DISCOVERY OF SUCH MATERIALS TO PURSUE PROPER AND

COMPLIANT REMOVAL OF SAME. THE CONTRACTOR MUST NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOUNDATION WALLS, FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE, UNLESS SAME IS IN STRICT ACCORDANCE AND CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, OR PURSUANT TO THE WRITTEN DIRECTION OF THE OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER. DEMOLITION ACTIVITIES AND FOLLIPMENT MUST NOT USE OR INCLUDE AREAS OLITSIDE THE DEFINED PROJECT LIMIT LINE

WITHOUT SPECIFIC WRITTEN PERMISSION AND AUTHORITY OF AND FROM THE OWNER AND ALL GOVERNMENTAL AGENCIES WITH JURISDICTION. THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES, BACKFILL MUST BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS AND MUST BE SUFFICIENTLY COMPACTED TO SUPPORT ALL NEW IMPROVEMENTS AND MUST BE PERFORMED IN COMPLIANCE WITH THE RECOMMENDATIONS AND GUIDANCE ARTICULATED IN THE GEOTECHNICAL REPORT BACKEILLING MUST OCCUR IMMEDIATELY AFTER DEMOLITION ACTIVITIES AND MUST BE PERFORMED SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISHED SURFACES MUST BE GRADED TO PROMOTE POSITIVE DRAINAGE. THE CONTRACTOR IS RESPONSIBLE FOR COMPACTION TESTING AND MUST SUBMIT SUCH REPORTS AND

RESULTS TO THE PROFESSIONAL OF RECORD AND THE OWNER. EXPLOSIVES MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT FROM BOTH THE OWNER AND ALL APPLICABLE. NECESSARY AND REQUIRED GOVERNMENTAL AUTHORITIES. PRIOR TO COMMENCING ANY EXPLOSIVE PROGRAM AND/OR ANY DEMOLITION ACTIVITIES. THE CONTRACTOR MUST ENSURE AND OVERSEE THE INSTALLATION OF ALL OF THE REQUIRED PERMIT EXPLOSIVE CONTROL MEASURES THAT THE FEDERAL STATE AND LOCAL GO ALSO RESPONSIBLE TO CONDUCT AND PERFORM ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES AND THE LIKE

IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS, THE CONTRACTOR MUST USE DUST CONTROL MEASURES

TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR. AFTER THE DEMOLITION IS COMPLETE, THE CONTRACTOR MUST CLEAN ALL ADJACENT STRUCTURES AND IMPROVEMENTS TO REMOVE ALL DUST AND DEBRIS WHICH THE DEMOLITION OPERATIONS CAUSE. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION AT CONTRACTOR'S SOLE COST PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES. ALL DEBRIS FROM REMOVAL OPERATIONS MUST BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS OUTSIDE OF APPROVED AREAS WILL NOT BE PERMITTED, INCLUDING BUT NOT LIMITED TO. THE PUBLIC RIGHT-OF-WAY.

THE CONTRACTOR MUST MAINTAIN A RECORD SET OF PLANS WHICH INDICATES THE LOCATION OF EXISTING UTILITIES THAT ARE CAPPED ABANDONED IN PLACE OR RELOCATED DUE TO DEMOLITION ACTIVITIES. THIS RECORD DOCUMENT MUST BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE WORK, ALL OF WHICH IS AT THE CONTRACTOR'S SOLE COST. THE CONTRACTOR MUST EMPTY. CLEAN AND REMOVE FROM THE SITE ALL UNDERGROUND STORAGE TANKS. IF ENCOUNTERED N ACCORDANCE WITH FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS, PRIOR TO CONTINUING CONSTRUCTION IN THE

SOIL EROSION & SEDIMENT CONTROL PLAN NOTES

AREA AROUND THE TANK WHICH EMPTYING, CLEANING AND REMOVAL ARE AT THE CONTRACTOR'S SOLE COST

NEAR TO THE SAME.

THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS THE GENERAL NOTES ARE REFERENCED HEREIN AND CONTRACTOR MUST REFER TO THEM. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF ENGINEER OR JURISDICTIONAL AGENCY SO

THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT STABILIZATION IS ESTABLISHED UNLESS INDICATED OTHERWISE IN LOCAL. STATE AND/OR FEDERAL PROJECT APPROVALS. THE COST OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR THE SITE WORK AND THE CONTRACTOR IS RESPONSIBLE FOR ALL SUCH COSTS.

WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.

ACCORDANCE WITH THE DETAILS, UNLESS NOTED CLEARLY OTHERWISE

REQUIRES TO PREVENT THE DISCHARGE OF SEDIMENT LADEN RUNOFF FROM EXITING THE SITE

THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY

PRIOR TO THE COMMENCEMENT OF GENERAL CONSTRUCTION, THE CONTRACTOR MUST INSTALL SOIL FROSION CONTROL AND ANY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES NECESSARY, AS INDICATED ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN AND IN ACCORDANCE WITH APPLICABLE AND/OR APPROPRIATE AGENCIES' GUIDELINES O PREVENT SEDIMENT AND/OR LOOSE DEBRIS FROM WASHING ONTO ADJACENT PROPERTIES OR THE RIGHT OF WAY ALL DIRECTIONAL/TRAFFIC SIGNING AND PAVEMENT STRIPING MUST CONFORM TO THE LATEST STANDARDS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ANY APPLICABLE STATE OR LOCALLY APPROVED SUPPLEMENTS, GUIDELINES RULES REGULATIONS STANDARDS AND THE LIKE

THE LOCATIONS OF PROPOSED UTILITY POLES AND TRAFFIC SIGNS SHOWN ON THE PLANS ARE SCHEMATIC AND PRELIMINARY. OUTSIDE SOURCE NOTES THE CONTRACTOR IS SOLELY RESPONSIBLE FOR FIELD-VERIFYING THEIR LOCATION. THE CONTRACTOR MUST COORDINATE THE RELOCATION OF TRAFFIC SIGNS WITH THE ENTITY WITH JURISDICTION OVER THE PROJECT. ALL DIMENSIONS SHOWN ARE TO BOTTOM FACE OF CURB, EDGE OF PAVEMENT, OR EDGE OF BUILDING, EXCEPT WHEN ANY INFORMATION, DRAWINGS, DATA, PLANS, SPECIFICATIONS, MATERIALS, FIGURES, DOCUMENTATION, REPORTS, AND THE LIKE

**GRADING NOTES** THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTR.

DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY FOR ENTIRE PLAN SET COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES. SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AS REFERENCED IN THIS PLAN SET. IF NO GEOTECHNICAL REPORT HAS BEEN REFERENCED. THE CONTRACTOR MUST HAVE A GEOTECHNICAL ENGINEER PROVIDE WRITTEN SPECIFICATIONS AND RECOMMENDATIONS PRIOR TO THE CONTRACTOR COMMENCING THE GRADING WORK. THE CONTRACTOR MUST FOLLOW TO REQUIREMENTS OF ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS, WHICH HAVE JURISDICTION OVER THIS PROJECT. THE CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. THE CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO THE PROFESSIONAL OF RECORD. BOHLER AND THE OWNER PRIOR TO THE CONTRACTOR COMMENCING ANY WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFYING EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION. SHOULD DISCREPANCIES BETWEEN THE PLANS AND INFORMATION OBTAINED THROUGH FIELD VERIFICATIONS BE IDENTIFIED OR EXIST, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER IN WRITING THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ALL UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR MUST COMPACT ALL EXCAVATED OR FILLED AREAS IN STRICT ACCORDANCE WITH THE GEOTECHNICAL REPORT'S GUIDANCE. MOISTURE CONTENT AT TIME OF PLACEMENT MUST BE SUBMITTED IN A COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STAT WHERE THE WORK IS PERFORMED. THIS REPORT MUST VERIFY THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE

MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT MUST BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S REPRESENTATIVE, SUBBASE MUST BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL, COMPACTED AS THE GEOTECHNICAL REPORT DIRECTS. EARTHWORK ACTIVITIES INCLUDING. BUT NOT LIMITED TO. EXCAVATION. BACKFILL. AND COMPACTING MUST COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES MUST COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOF OADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THERETO IN THE EVENT OF A DISCREPANCY(IES) AND/OR A CONFLICT(S) BETWEEN PLANS. OR RELATIVE TO OTHER PLANS. THE GRADING PLAN TAKES PRECEDENCE AND CONTROLS. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD

THE CONTRACTOR IS RESPONSIBLE TO IMPORT FILL OR EXPORT EXCESS MATERIAL AS NECESSARY TO CONFORM TO THE

PROPOSED GRADING, AND TO BACKFILL EXCAVATIONS FOR THE INSTALLATION OF UNDERGROUND IMPROVEMENTS.

BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS. SPECIFICATIONS

STATUTES, LAWS, ORDINANCES AND CODES WHICH ARE IN EFFECT AND WHICH ARE APPLICABLE TO THE PROJECT. SUBBASE

AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS RULES.

**ACCESSIBILITY DESIGN GUIDELINES** 

AND BOHLER IN WRITING OF ANY DISCREPANCY(IES) AND/OR CONFLICT(S)

ALL ACCESSIBLE (A K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET. AT A MINIMUM. THE MORE STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT WHEN THESE PLANS WERE COMPLETED. THE CONTRACTOR MUST REVIEW ALL DOCUMENTS REFERENCED IN THESE NOTES FOR ACCURACY, COMPLIANCE AL CONSISTENCY WITH INDUSTRY GUIDELINES. THE CONTRACTOR MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ACCESSIBLE (A COMPONENTS AND ACCESSIBLE ROLLTES FOR THE SITE FINISHED SURFACES ALONG THE ACCESSIBLE ROLLTE OF TRAVEL FROM PARKING SPACES. PUBLIC TRANSPORTATION. PEDESTRIAN ACCESS. AND INTER-BUILDING ACCESS. TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THE ACCESSIBLE GUIDELINES AND REQUIREMENTS WHICH INCLUDE, BUT ARE

ACCESSIBLE PARKING SPACES AND ACCESS AISLES SLOPES MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 36-INCHES MINIMUM WIDTH (48-INCHES PREFERRED), OR AS SPECIFIED BY THE GOVERNING AGENCY LINORSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS) MUST NOT REDUCE THIS MINIMUM WIDTH. THE SLOPE MUST NOT EXCEED 1:20 (5.0%) IN THE DIRECTION OF TRAVEL AND MUST NOT EXCEED 1:50 (2.0%) IN CROSS SLOPE. WHERE ACCESSIBLE PATH OF TRAVEL IS GREATER THAN 1:20 (5.0%), AN ACCESSIBLE RAMP MUST BE PROVIDED. ALONG THE ACCESSIBLE PATH OF TRAVEL, OPENINGS MUST NOT EXCEED 1/2-INCH IN WIDTH. VERTICAL CHANGES OF UP TO 1/2-INCH ARE PERMITTED ONLY IF THEY INCLUDES A 1/4-INCH BEVEL AT A SLOPE NOT STEEPER THAN 1:2. NO VERTICAL CHANGES OVER 1/4-INCH ARE PERMITTED.

ACCESSIBLE RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%) AND A RISE OF 30-INCHES LEVEL LANDINGS MUST BE PROVIDED AT EACH END OF ACCESSIBLE RAMPS. LANDING MUST PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES, CONC AND MUST NOT EXCEED 1:50 (2.0%) SLOPE IN ANY DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS MUST HAVE A CLEAR LANDING OF A MINIMUM OF 60-INCHES BY 60-INCHES. <u>HAND RAILS</u> ON BOTH SIDES OF THE RAMP MUST BE PROVIDED ON AN ACCESSIBLE RAMP WITH A RISE GREATER THAN 6-INCHES ACCESSIBLE CURB RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%). WHERE FLARED SIDES ARE PROVIDED, THEY MUST COORD

NOT EXCEED 1:10 (10%) SLOPE. LEVEL LANDING MUST BE PROVIDED AT RAMPS TOP AT A MINIMUM OF 36-INCHES LONG (48-INCHES PREFERRED). IN ALTERATIONS, WHEN THERE IS NO LANDING AT THE TOP, FLARE SIDES SLOPES MUST NOT EXCEED A SLOPE OF 1:12 (8.3%). DOORWAY LANDINGS ARÊAS MUST BE PROVIDED ON THE EXTERIOR SIDE OF ANY DOOR LEADING TO AN ACCESSIBLE PATH THIS LANDING MUST BE SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO FEWER THAN 60-INCHES (5 FEET) LONG. EXCEPT WHERE OTHERWISE CLEARLY PERMITTED BY ACCESSIBLE STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2009 AND OTHER REFERENCES INCORPORATED BY CODE).

WHEN THE PROPOSED CONSTRUCTION NOVLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ACCESSIBLE COMPONENTS FROM EXISTING DOORWAYS OR SURFACES. THE CONTRACTOR MUST VERIFY ALL EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOI ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES, IN RARE CIRCUMSTANCES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER. IN WRITING, OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR IN ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS BEFORE COMMENCING | DMH ANY WORK, CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ACCESSIBLE GUIDELINES THE CONTRACTOR MUST VERIFY ALL OF THE SLOPES OF THE CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE EXISTS OR IS OBSERVED OR DISCOVERED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER IN WRITING PRIOR TO POLIRING CONCRETE THE CONTRACTOR IS SOLELY

(Rev. 3/2023

(Rev. 11/2023)

ES / EOS | EDGE OF SHOULDER

FND WALL

**EXISTING** 

FEMA

FIRE DEPARTMENT

FEDERAL EMERGENCY

MANAGEMENT AGENCY

FLARED END SECTION

FINISH / FIRST FLOOR

FINISH / FIRST FLOOR

GENERAL CONTRACTOR

**GROSS FLOOR AREA** 

GRADE HIGH (WALL)

GRADE LOW (WALL)

GATE VALVE

HORIZONTAI

**HIGH POINT** 

**HEADWALL** 

**INFILTRATION** 

INTERSECTION

LINEAR FOOT

LINE OF SIGHT

LIMIT OF WORK

I OW POINT

LANDSCAPE

LIMIT OF CLEARING

LIMIT OF DISTURBANCE

INVERT

GEOTECH/GEOTECHNICAL

GARAGE FLOOR FLEVATION

HIGH DENSITY POLYETHYLEN

INLET CONTROL STRUCTURE

CONNECTION

ELEVATION

FINISH GRADE

FIRE HYDRANT

FORCE MAIN

FIBER OPTIC

GRADE

RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND/OR REPLACE NON-CONFORMING CONCRETE AND/OR PAVEMENT SURFACES IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION TO ENSURE SAME IS CONSISTENT WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCING CONSTRUCTION.

DRAINAGE AND UTILITY NOTES

THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT │ FI FC DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY | ELEV WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES. OCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE. AND THE CONTRACTOR MUST INDEPENDENTL' VERIFY AND CONFIRM THOSE LOCATIONS AND SERVICES WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY CONSTRUCTION OR EXCAVATION. THE CONTRACTOR MUST INDEPENDENTLY VERIFY AND CONFIRM ALL SANITARY CONNECTION lacksquarePOINTS AND ALL OTHER UTILITY SERVICE CONNECTION POINTS IN THE FIELD. PRIOR TO COMMENCING ANY CONSTRUCTION. THE CONTRACTOR MUST REPORT ALL DISCREPANCIES, ERRORS AND OMISSIONS IN WRITING, TO THE PROFESSIONAL OF RECORD lacksquareTHE CONTRACTOR MUST VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED

TO, GAS, WATER, ELECTRIC, SANITARY AND STORM, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE OR WORK SPACE, WHICHEVER IS GREATER, THE CONTRACTOR MUST USE, REFER TO, AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL OF THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ANY EXISTING UTILITIES WHICH OCCUR DURING CONSTRUCTION, AT NO COST TO THE OWNER AND AT CONTRACTOR'S SOLE COST AND EXPENSE. THE CONTRACTOR MUST BEAR ALL COSTS ASSOCIATED WITH DAMAGE TO ANY EXISTING UTILITIES WHICH OCCURS DURING CONSTRUCTION.

THE CONTRACTOR MUST FIELD VERIFY THE PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES BY USING A TEST PIT TO CONFIRM EXACT DEPTH. PRIOR TO COMMENCEMENT OF CONSTRUCTION. STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON ARCHITECTURAL PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS, SIZE, AND MATERIAL OF SAME BASED UPON FINAL ARCHITECTURAL PLANS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SITE PLAN DOCUMENTS AND ARCHITECTURAL PLANS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS; GREASE TRAP REQUIREMENTS; AND DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR MUST COORDINATE INSTALLATION OF UTILITY SERVICES WITH THE INDIVIDUAL COMPANIES TO AVOID CONFLICTS AND TO ENSURE THAT PROPER DEPTHS ARE ACHIEVED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT INSTALLATION OF ALL IMPROVEMENTS COMPLIES WITH ALL UTILITY REQUIREMENTS OF THE APPLICABLE JURISDICTION AND REGULATORY AGENCIES AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES AND, FURTHER, IS RESPONSIBLE FOR COORDINATING TH

UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE A CONFLICT(S) EXISTS

BETWEEN THESE DOCUMENTS AND THE ARCHITECTURAL PLANS OR WHERE ARCHITECTURAL PLAN LITHLITY CONNECTION

POINTS DIFFER. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER. IN WRITING. AND PRIOR TO CONSTRUCTION. MUST RESOLVE SAME. ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION MUST BE EXACTLY AS PER TH RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND THE CONTRACTOR MUST COORDINATE SAME WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS. WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS FILL AND COMPACTION MUST COMPLY WITH APPLICABLE REQUIREMENTS AND SPECIFICATIONS. THE PROFESSIONAL O RECORD AND BOHLER ARE NOT RESPONSIBLE FOR DESIGN OF TRENCH BACKELL OR FOR COMPACTION REQUIREMENTS DURING THE INSTALLATION OF SANITARY, STORM, AND ALL UTILITIES. THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO IDENTIFY THE AS-INSTALLED LOCATIONS OF ALL UNDERGROUND

INFRASTRUCTURE. THE CONTRACTOR MUST CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE, IN ANY RESPECT, FROM THE INFORMATION CONTAINED IN THESE PLANS. THIS RECORD MUST BE KEPT ON A CLEAN COPY OF THE APPROPRIATE PLAN(S), GF / GFE WHICH THE CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER IMMEDIATELY UPON THE COMPLETION OF WORK. THE CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SANITARY. WATER AND STORM SYSTEMS. ARE REPAIRED IN ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND OR STATE DOT DETAILS AS APPLICABLE. THE CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AGENCY WITH JURISDICTION OVER SAME. FINAL LOCATIONS OF PROPOSED UTILITY POLES, AND/ OR POLES TO BE RELOCATED ARE AT THE SOLE DISCRETION OF THE RESPECTIVE UTILITY COMPANY, REGARDLESS OF WHAT THIS PLAN DEPICTS. WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY. THE CONTRACTOR MUST CONTACT THE APPLICABLE MUNICIPALITY TO CONFIRM THE PROPER WATER METER AND VAULT. PRIOR

MATCH PROPOSED FINISHED GRADES WITH NO TRIPPING OR SAFETY HAZARD IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.

THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT MUST BE ADJUSTED, AS NECESSARY,

TO COMMENCING CONSTRUCTION.

DIMENSION IS TO A PROPERTY LINE, STAKE OUT OF LOCATIONS OF INLETS, LIGHT POLES, ETC. MUST BE PERFORMED IN STRICT WHICH IS INDICATED TO HAVE BEEN PREPARED "BY OTHERS" (HEREIN, "BY OTHERS REPORTS, DOCUMENTS AND DETAILS") HAS BEEN OR WILL BE CREATED, DEVELOPED, PREPARED, PERFORMED, AND ANALYZED BY AN ENTITY OR PARTY OTHER THAN THE "BOHLER" ENTITY INVOLVED WITH THIS PROJECT. THE "BOHLER" ENTITY IS NOT IN ANY WAY RESPONSIBLE FOR THE BY OTHERS REPORTS, DOCUMENTS AND DETAILS EVEN IF/WHERE INCLUDED IN THE "BOHLER" ENTITY'S PLANS, REPORTS, ETC. SAME HAS BEEN INCLUDED ON THIS PLAN FOR THE CONVENIENCE, ONLY, OF THE PROJECT OWNER, DEVELOPERS, CONTRACTORS AND CONSULTANTS AND IN ORDER TO COORDINATE THE "BOHLER" ENTITY'S DESIGN WITH THAT OF "OTHERS". THE "BOHLER" ENTITY HAS ASSUMED, FOR PURPOSES OF THIS PLAN THAT THE BY OTHERS REPORTS DOCUMENTS AND DETAILS ARE CURRENT AND IF APPLICABLE | INT PREPARED IN STRICT ACCORDANCE WITH ALL APPLICABLE COUNTY, STATE, FEDERAL AND OTHER STATUTES, LAWS, RULES, REGULATIONS, ORDINANCES AND THE LIKE. THE "BOHLER" ENTITY SPECIFICALLY DISCLAIMS ANY AND ALL LIABILITY AND ▮ RESPONSIBILITY FOR BY OTHERS REPORTS, DOCUMENTS AND DETAILS. THE ENTITY OR PERSON WHO CREATED THE INFORMATION

> BY A JURISDICTION AND/OR GOVERNING BODY) AGREES BY PARTICIPATING IN THIS PROJECT, RECEIVING, REVIEWING, USING AND/OR RELYING UPON THIS DOCUMENT. AND/OR BY AGREEING TO THE PROJECT OWNER/DEVELOPER'S CONTRACT DOCUMENTS. TO DEFEND, INDEMNIFY, PROTECT AND HOLD HARMLESS THE "BOHLER" ENTITY THAT PREPARED THIS DOCUMENT AND ITS EMPLOYEES FOR ANY AND ALL DAMAGES, INJURIES, COSTS, EXPENSES AND THE LIKE, TO THE FULLEST EXTENT PERMITTED UNDER HE LAW, WHICH THE "BOHLER" ENTITY AND/OR ITS EMPLOYEES SUFFER OR INCUR AS A RESULT OF INCLUDING ANY BY OTHEF REPORTS, DOCUMENTS AND DETAILS IN AND ON OR IN THIS PLAN. ANYONE OR ANY ENTITY WHO RECEIVED, RELIES UPON AND/OR USES THIS PLAN, AGREES TO HOLD THE "BOHLER" ENTITY AND ITS EMPLOYEES HARMLESS FROM ANY CLAIMS, DAMAGES, INJURIES COSTS AND EXPENSES TO THE FULLEST EXTENT PERMITTED UNDER THE LAW FOR ANY DAMAGES INJURIES COSTS EXPENSES. AND THE LIKE. TO THE FULLEST EXTENT PERMITTED UNDER THE LAW. WHICH IT OR THEY SUFFER OR INCUR AS A RESULT OF THE ANY BY OTHERS REPORTS, DOCUMENTS AND DETAILS INCORPORATED IN THE PLAN, AND EXPRESSLY CONFIRMS THAT BY RECEIVING, RELYING UPON AND/OR USING SAME, THE "BOHLER" ENTITY SHALL HAVE NO LIABILITY RELATED TO SAME. WIT RESPECT TO ALL BY OTHERS REPORTS, DOCUMENTS AND DETAILS, CONTRACTOR MUST VERIFY ALL INFORMATION CONTAINED IN THE SCOPE OF ALL PARTIES INVOLVED IN PREPARING THE BY OTHERS REPORTS. DOCUMENTS AND DETAILS PRIOR TO COMMENCING

ANY CONSTRUCTION AND MUST VERIFY THAT THE INFORMATION IS THE LATEST. THE MOST RECENT AND THE MOST CURRENT

CONTAINED IN THE BY OTHERS REPORTS, DOCUMENTS AND DETAILS (EXCLUDING INFORMATION AND/OR DETAILS SOLELY SUPPLIED

REPORT, DOCUMENT AND DETAIL. REFERENCES ON THIS PLAN TO INFORMATION PREPARED OR CONTAINED IN BY OTHERS REPORTS, DOCUMENTS AND DETAILS DEPICTING AN OFF-SITE AREA WHERE NO DETAIL IS INCLUDED IS A REFERENCE TO AN AREA, DETAIL, SPECIFICATION OR DESIGN THAT HAS NOT BEEN DESIGNED OR CONSTRUCTED BY THE "BOHLER" ENTITY AND REGARDING WHICH THE "BOHLER" ENTITY HAS NO CONTROL OVER OR LIABILITY REGARDING, BUT IS ADDED TO THIS PLAN FOR INFORMATIONAL

STANDARD **PROP LINE LEGEND** MAXIMUM ABBREVIATIONS PROPERTY LINE \_\_\_\_\_ MATCH EXISTING RIGHT-OF-WAY LINE \_\_\_\_ MECHANICAL, ELECTRICAL, AMERICAN ASSOCIATION OF INTERIOR PROPERTY LINE \_\_\_\_\_ AND PLUMBING AASHTO STATE HIGHWAY AND **MANHOLE** LEASE LINE TRANSPORTATION OFFICIALS MINIMIM EASEMENT LINE \_ \_ \_ \_ \_ ACRE / ACRES MECHANICAL JOIN SETBACK LINE \_\_ \_\_ \_\_ AREA DRAIN MANUAL ON UNIFORM TRAFF LIMIT OF WORK LOW ACCESSIBLE / AMERICANS CONTROL DEVICES WITH DISABILITIES ACT LIMIT OF DISTURBANCE LOD NATIONAL OCEANIC AND ABOVE GROUND SAWCUT LINE ATMOSPHERIC \_\_\_\_\_\_ APPROX **APPROXIMATE** ADMINISTRATION OVERHEAD WIRE —— OH——— NATIONAL RESOURCE ARCHITECTURAL FLECTRIC LINE ———F—— CONSERVATION SERVICE TELEPHONE LINE OPERATIONS AND \_\_\_\_\_т\_\_\_ AREA SUBJECT TO MAINTENANCE CABLE LINE \_\_\_\_\_C\_\_\_\_ STORMWATER FLOWAGE ON CENTER GAS LINE \_\_\_\_\_G\_\_\_\_ ASSOCIATION ASSOC OUTLET CONTROL STORM SEWER **BOTTOM OF CURB** STRUCTURE OIL AND GRIT SEPARATOR SANITARY MAIN 12" OR GREATER **BASEMENT FLOOR** ORDINANCE SANITARY MAIN BIOGARDEN PA / POA POINT OF ANALYSIS SANITARY LATERAL ------SI -----BITUMINOUS SANITARY FORCE MAIN POINT OF CURVATURE — FM — BLOCK POINT OF CURVATURE, CURB WATER MAIN 12" OR GREATER BASELINE RFTURN WATER MAIN ------W------BUII DING BI DG PERFORATED WATER LATERAL BENCH MARK PROPOSED GRADE WATER FIRE LINE ——F—— BUILDING RESTRICTION LINE POINT OF INTERSECTION **BORDERING VEGETATIVE** PROP SYMBOL LEGEND POINT OF GRADE WETLAND TYPICAL SIGN \_v POLYPROPYLENE PIPE CATCH BASIN **PROPOSED** TYPICAL BOLLARD CUBIC FEET POINT OF TANGENCY UTILITY POLE WITH LIGHT **CURB INLET** POINT OF TANGENCY, CURB UTILITY POLE -CHANGE IN TYPE RETURN TYPICAL LIGHT CENTER LINE POINT OF VERTICA WATER HYDRANT CORRUGATED METAL PIPE INTERSECTION PAVEMENT CLEANOUT °C/O CLEAN OUT POINT OF VERTICAL CONCRETE SANITARY MANHOLE TANGENCY CONNECTION CONN RADIUS / RADII STORM MANHOLE COORDINATE RIGHT-OF-WAY ⊗WM CORRUGATED PLASTIC PIPE RIGHTS-OF-WAY WATER METER REINFORCED CONCRETE PIP WATER VALVE CUBIC YARD **ROOF DRAIN** DECORATIVE GAS VALVE REGULATIONS DEPARTMENT OF **TEST PIT ENVIRONMENTAL PROTECTION** TO BE RELOCATED DETENTION BORING REQUIRED DIAMETER RETENTION DRAINAGE MANHOLE RETAINING WALL DOMESTIC TO BE RETURNED TO OWNER DEPARTMENT OF TRANSPORTATION **RAIN GARDEN** DESIGN POINT SI OPF DASHED WHITE LINE SANITARY SEWER **DOUBLE YELLOW LINE** SOIL EROSION AND SEDIMEN **EXISTING GRADE** CONTROL SQUARE FEET **ELECTRIC** STATE HIGHWAY LAYOUT FI EVATION ENGINEER OF RECORD STATION EP / EOP | EDGE OF PAVEMENT

STORM WATER / STORM

SINGLE/SOLID WHITE LINE

STORMWATER POLITION

TIME OF CONCENTRATION

TELECOMMUNICATIONS

TREE PROTECTION FENCE

UNITED STATES GEOLOGICAL

PREVENTION PLAN

TO BE ABANDONED

TO BE REMOVED

TO BE VACATED

TOP OF CURB

TRENCH DRAIN

TELEDATA

TO REMAIN

TRANSITION

**UNDERGROUND** 

UTILITY POLE

TYPICAL

SURVEY

**VERTICAL** 

VERIFY IN FIELD

WATER METER

YARD DRAIN

PLUS OR MINUS

NUMBER

DEGREE

DIAMETER

FEET/FOOT

INCHES

WATER QUALITY UNIT

SLOPE EXPRESSED IN

HORIZONTAL: VERTICAL IN

WIDE / WIDTH

WATER LINE

SEWER

SWPPP

RANS

/FRT

REVISIONS COMMENT REV DATE



YOU MUST CALL 811 BEFORE ANY EXCAVATION WHETHER IT'S ON PRIVATE OR PUBLIC LAND. www.nj1-call.org

**ISSUED FOR MUNICIPAL & AGENCY REVIEW & APPROVA** 

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENC VIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUC DOCUMENT UNLESS INDICATED OTHERWISE

PROJECT No.: NJA240262.00-0 DRAWN BY: TDW/JAI **CHECKED BY** CAD I.D.: P-CIVL-CNDS PROJECT:

PRELIMINARY & FINAL SITE PLANS

**AMERICAN** 

PROPERTIES AT NORTH **BRUNSWICK, LLC** 

> PROPOSED QUICKCHEK FOOD STORE WITH FUEL SALES

BLK: 230 | LOT:15 1661-1689 ROUTE 130 TOWNSHIP OF NORTH BRUNSWICK **MIDDLESEX COUNTY, NEW JERSEY** 

30 INDEPENDENCE BLVD., SUITE 200 **WARREN. NJ 07059** Phone: (908) 668-8300 (908) 754-4401 www.BohlerEngineering.com NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH0001

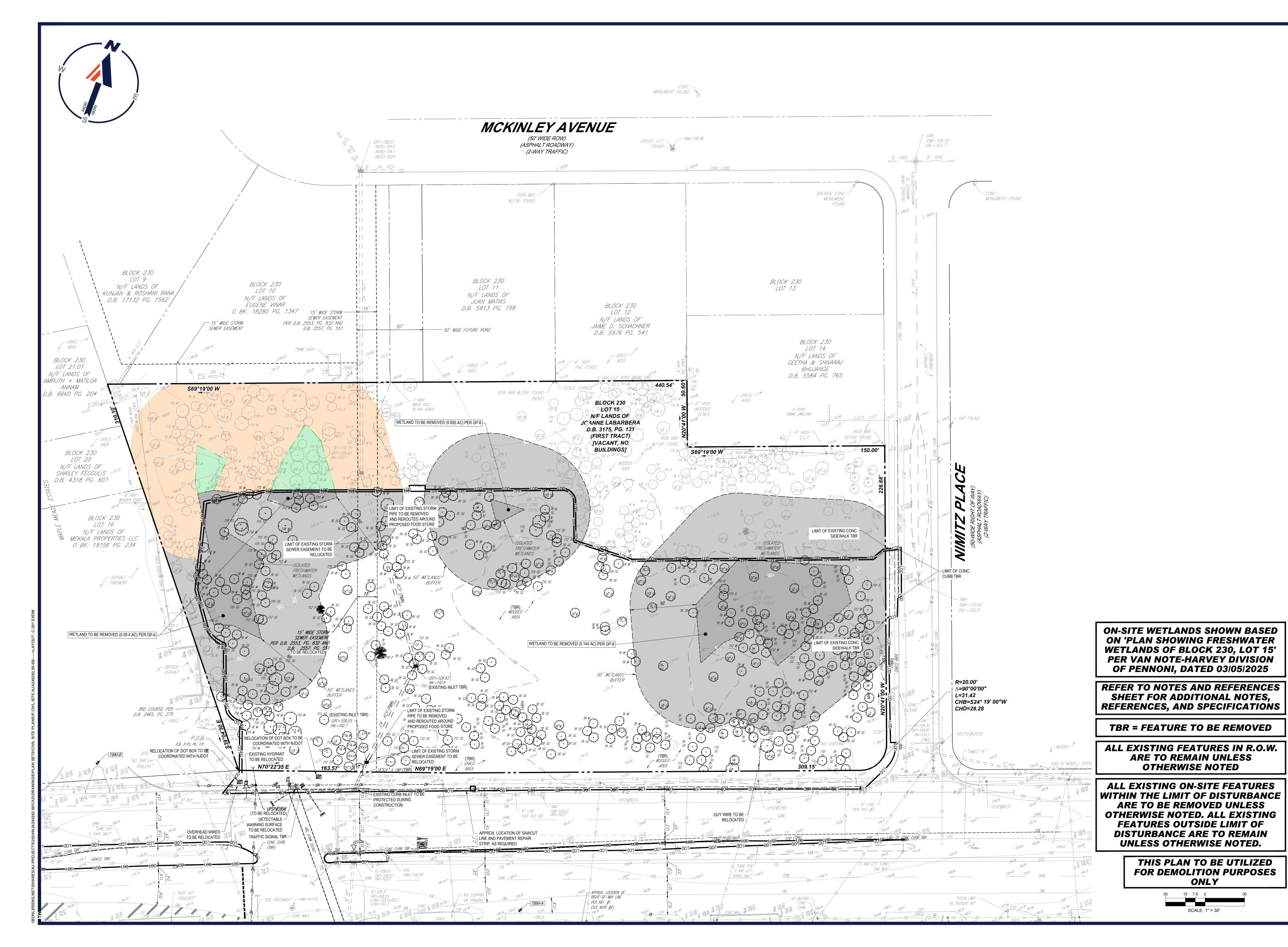
T. LAM

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 47863

NEW YORK LICENSE No. 092942 CONNECTICUT LICENSE No. 30024 PENNSYLVANIA LICENSE No. 76746

SHEET TITLE:

GENERAL **NOTES AND** LEGEND



AND CONSULTING ENGINEERING

SITE CIVIL AND CO LANE PROGRA LANDSCAF SUSTAI PERMIT TRANSPOF

| REVISIONS |      |              |            |  |  |  |  |  |  |
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PROJECT No.: NJA240262.00-0B DRAWN BY: TDW/JAR

D I.D.:

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PRELIMINARY & FINAL SITE PLANS

SOPOSED OUICKCHEK FOOD

**BRUNSWICK, LLC** 

PROPOSED QUICKCHEK FOOD STORE WITH FUEL SALES

BLK: 230 | LOT:15 1661-1689 ROUTE 130 VNSHIP OF NORTH BRUNSWIC DLESEX COUNTY, NEW JERSE

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NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH000122

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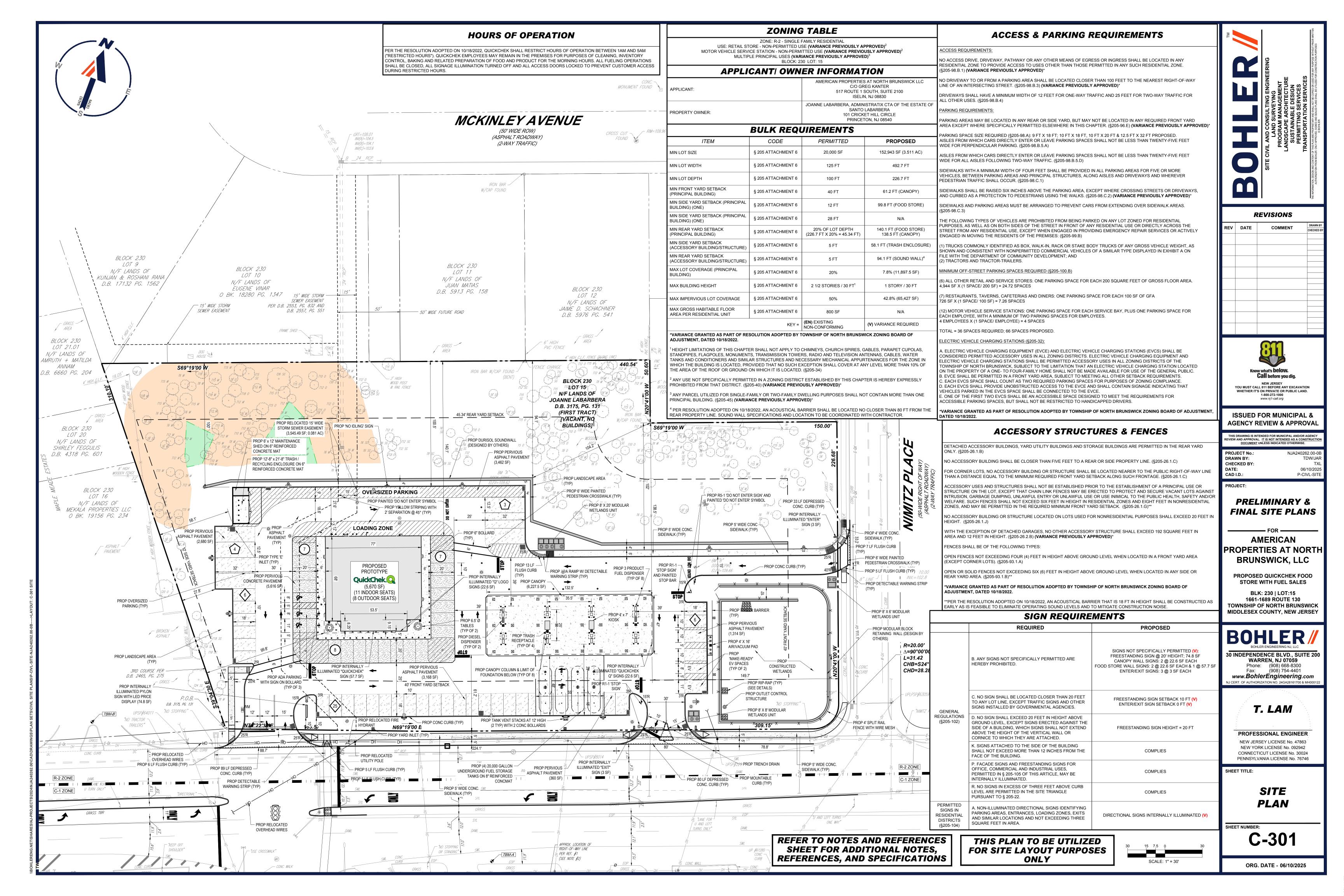
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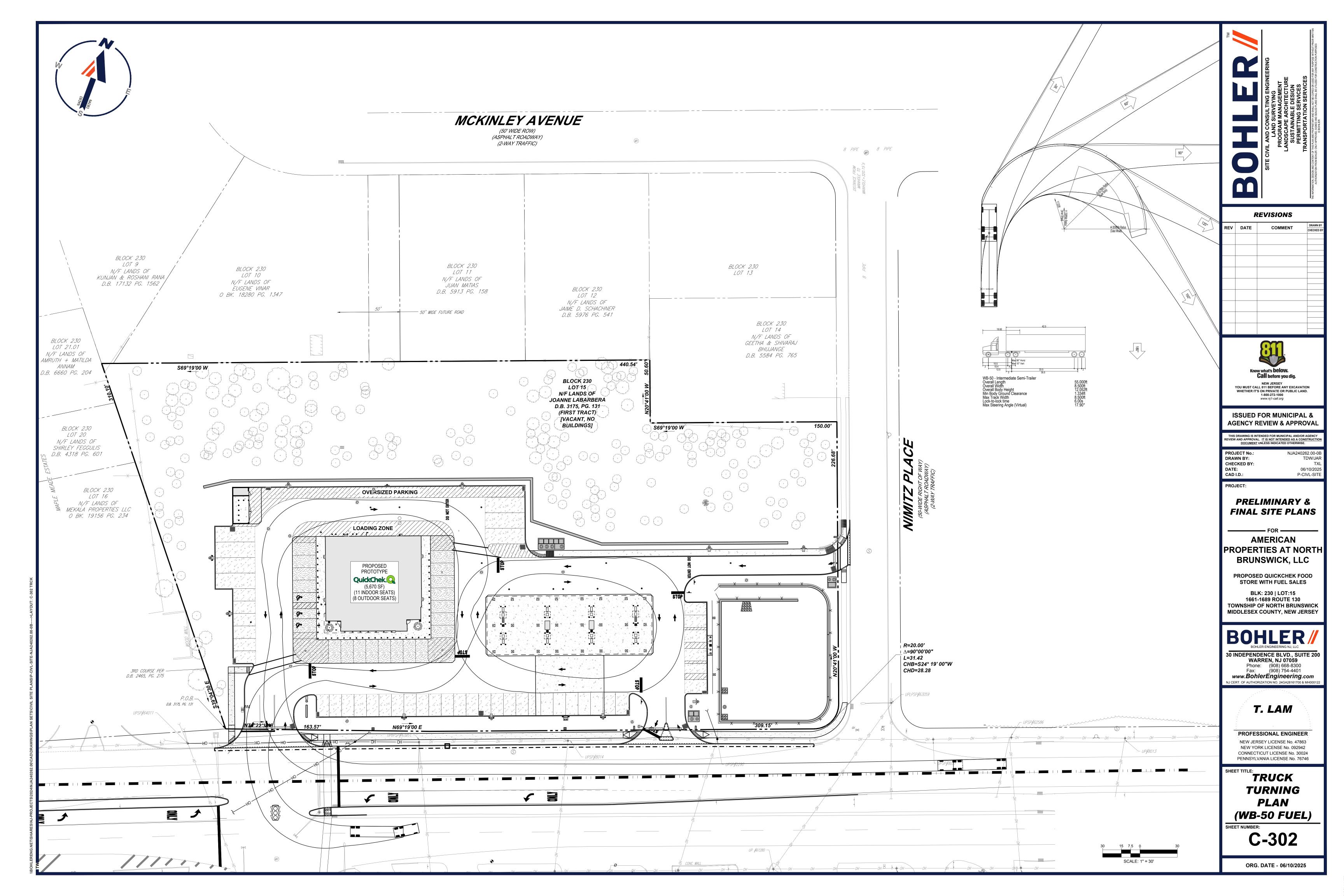
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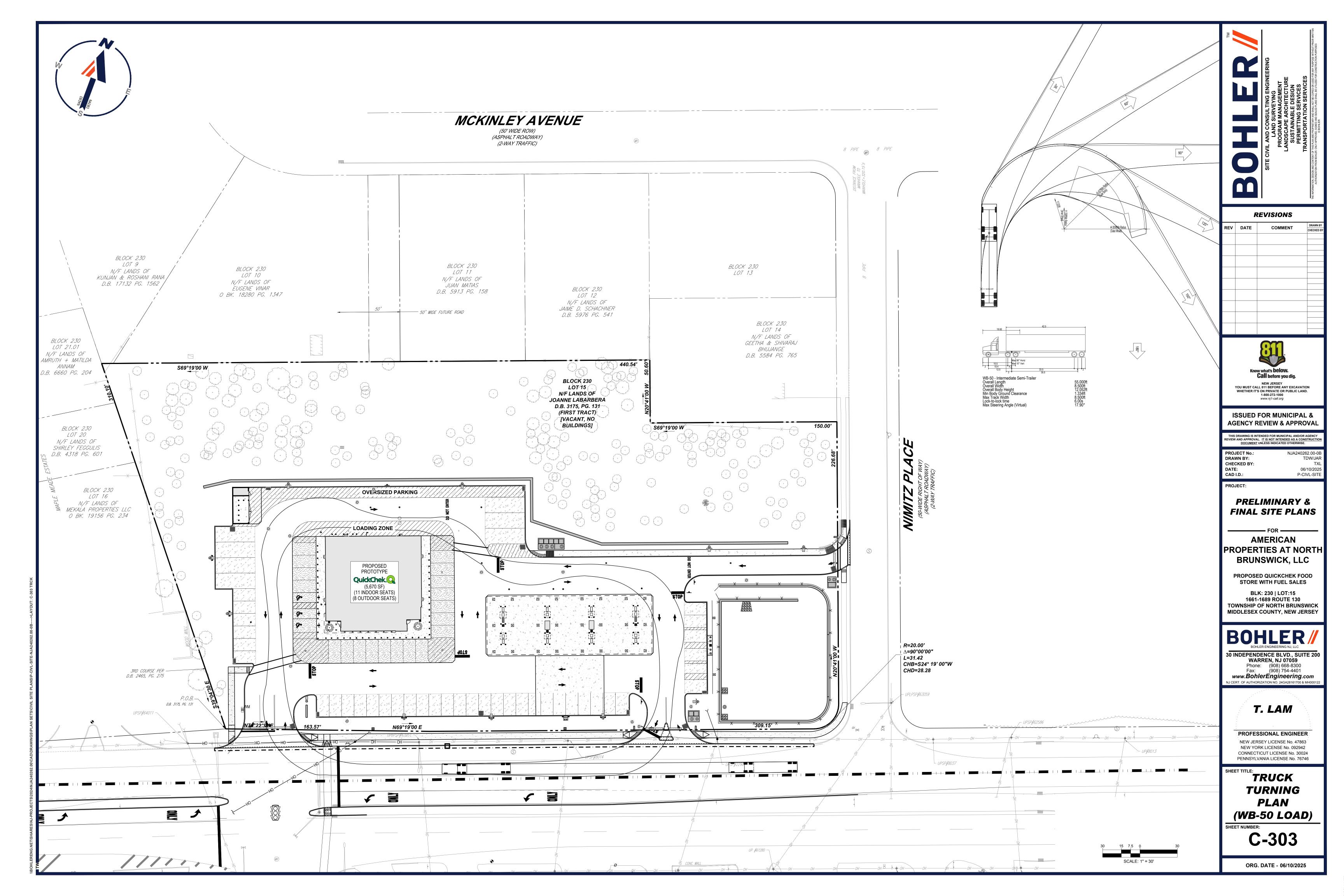
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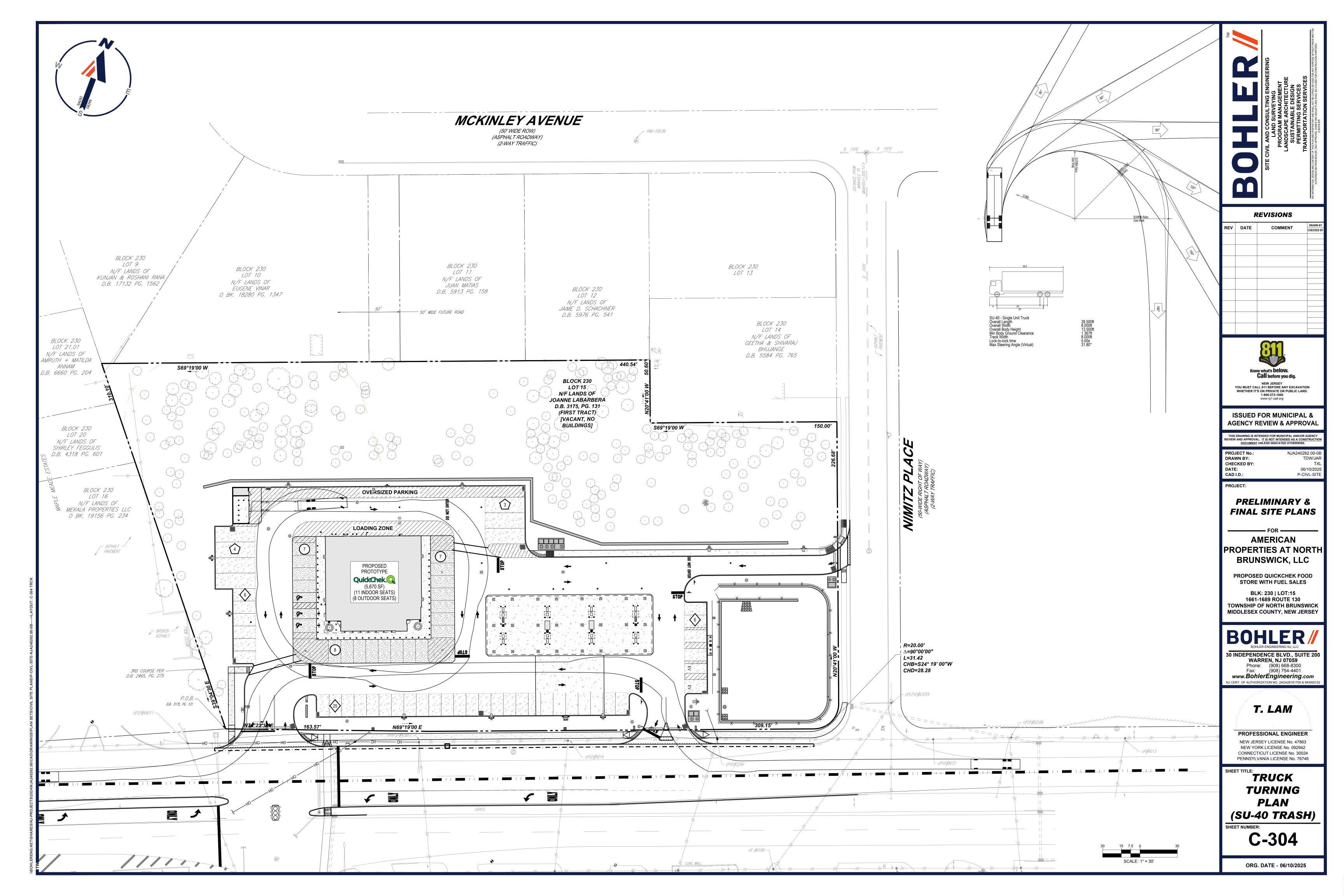
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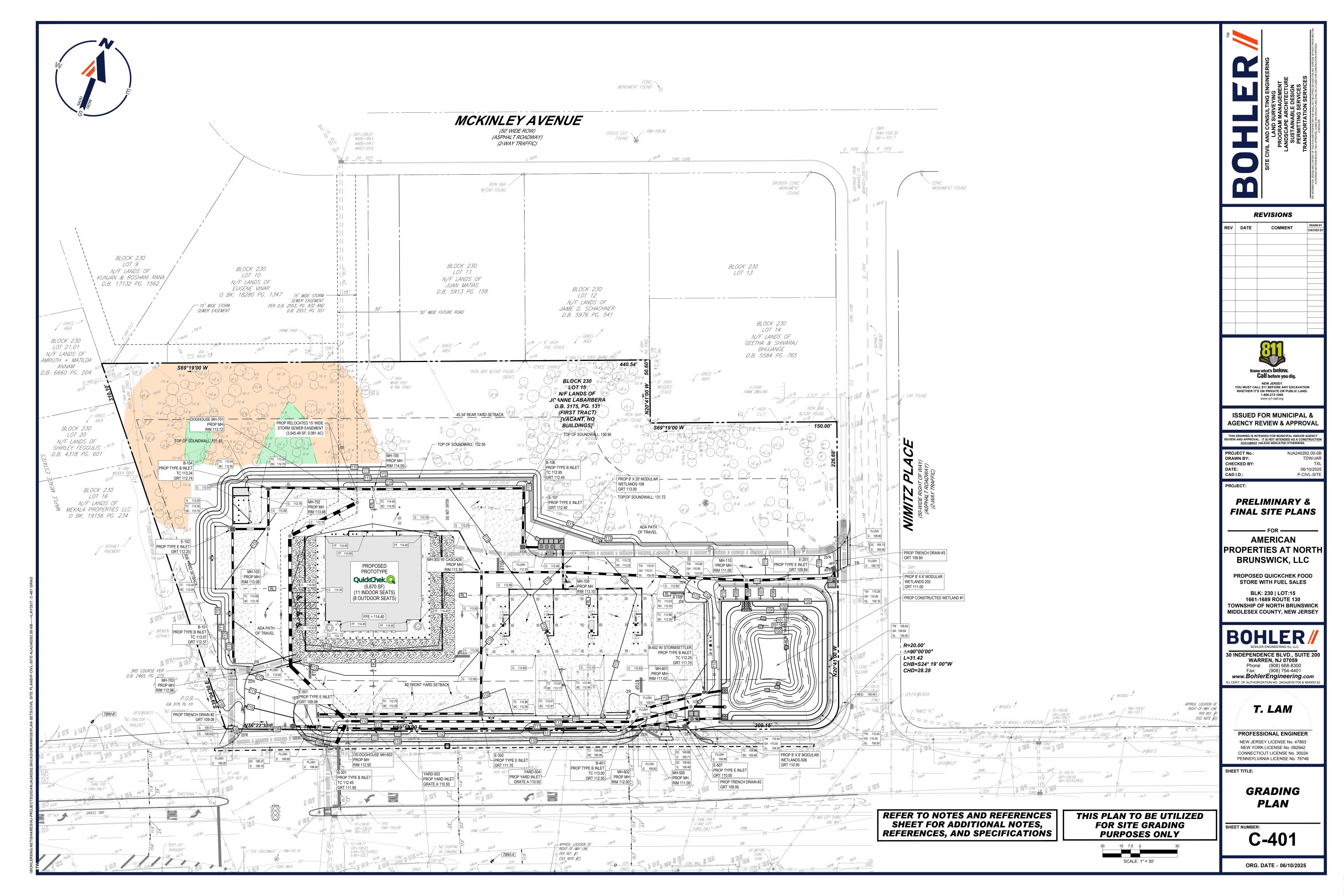
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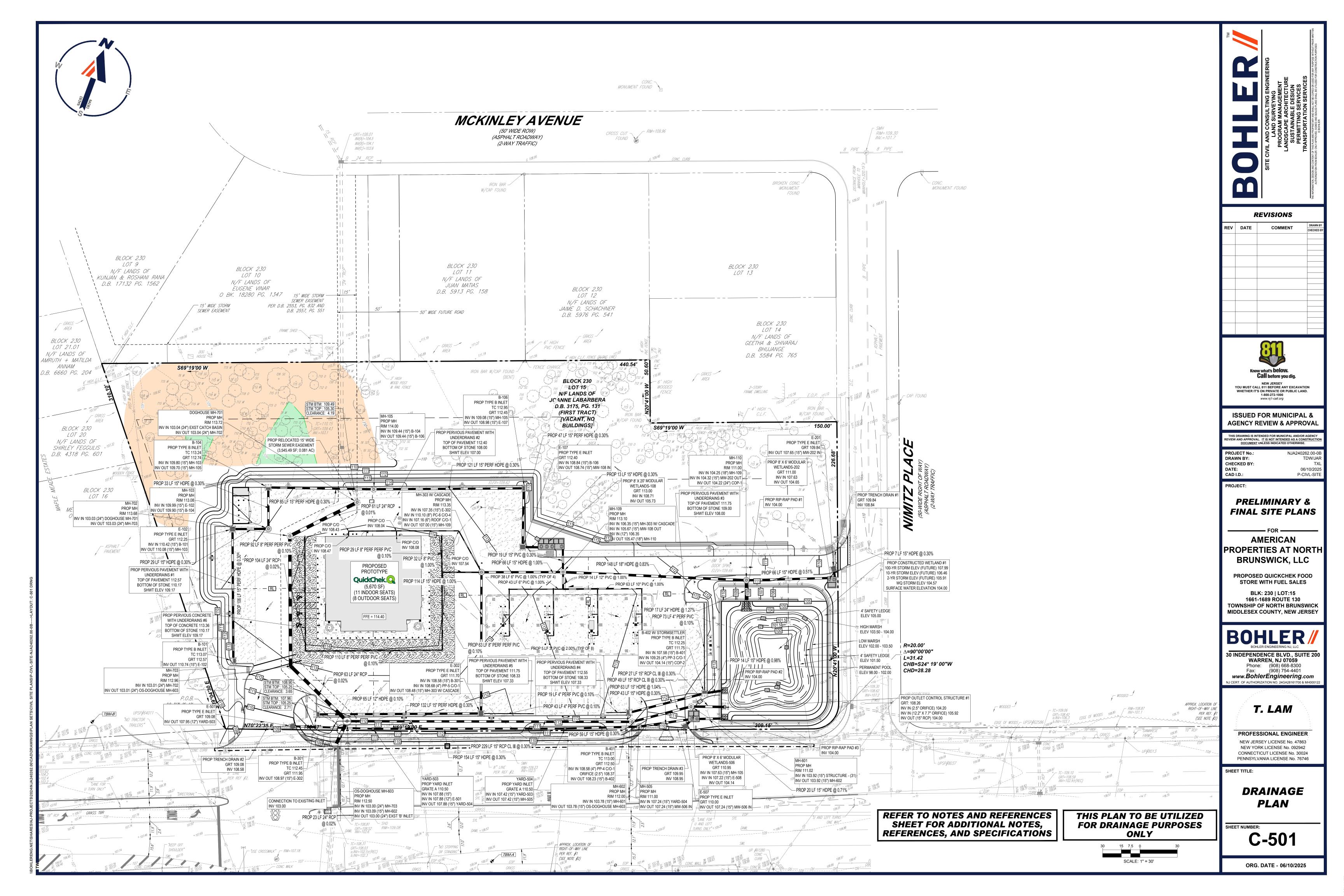


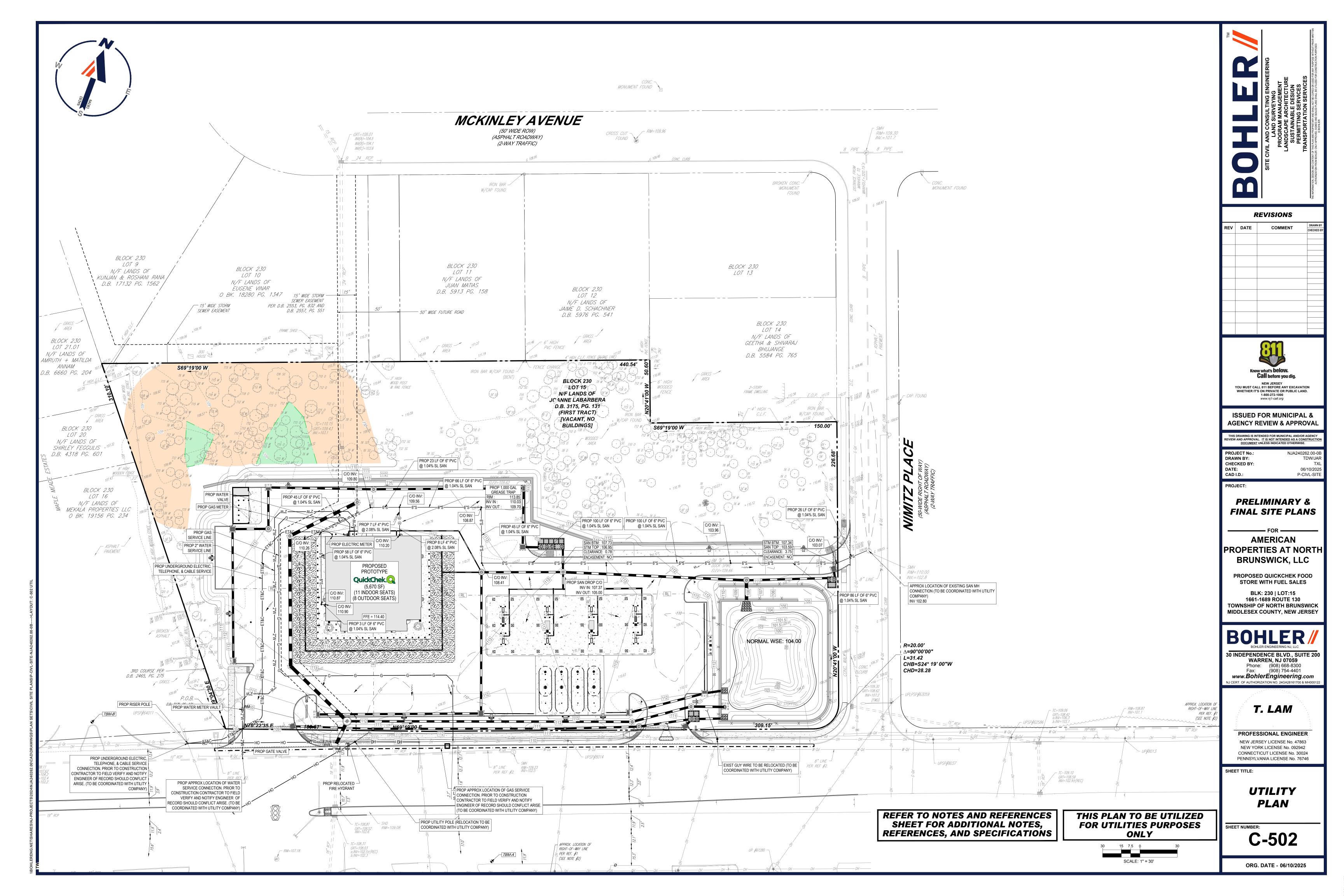


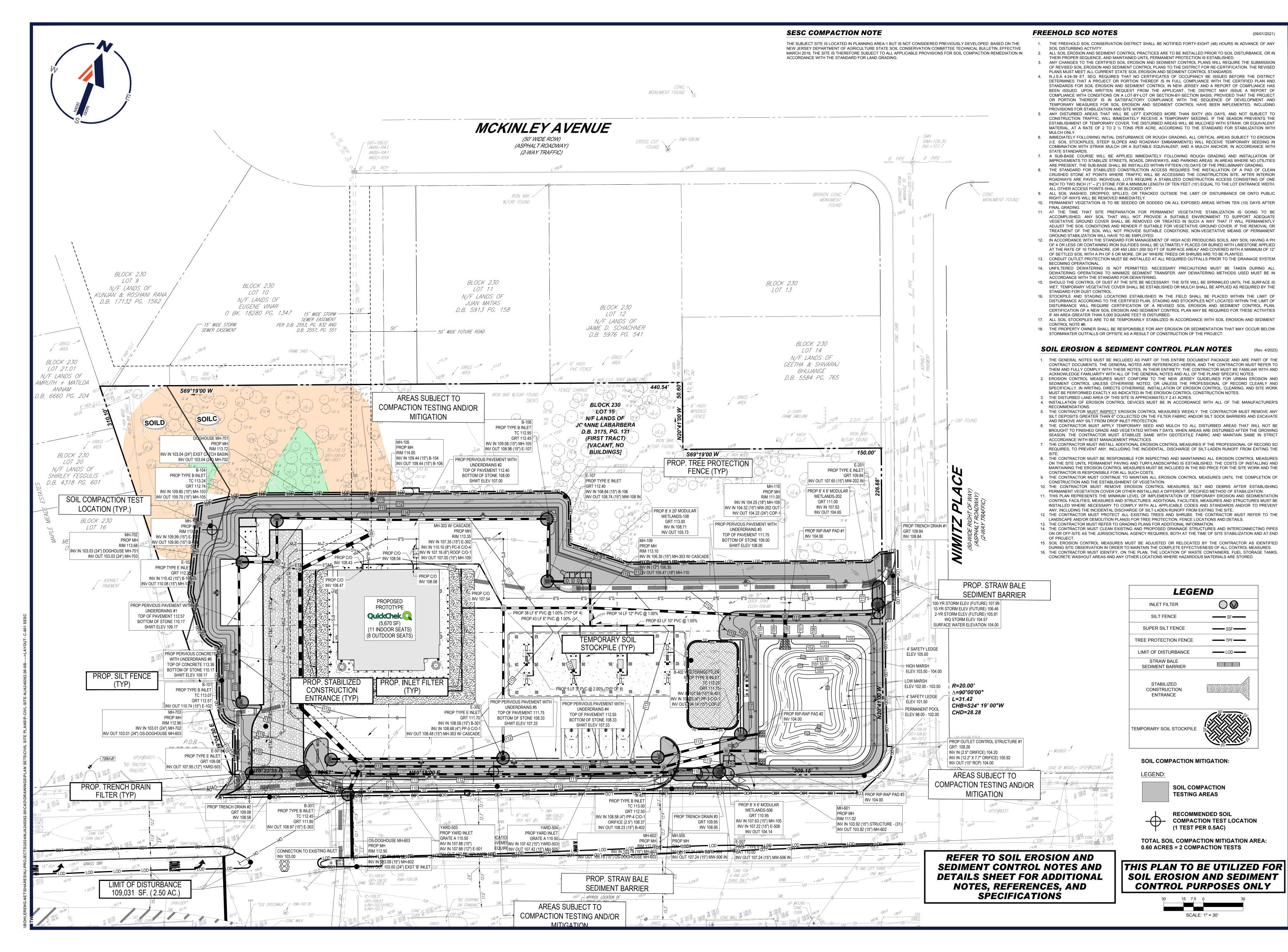












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PROJECT:

PRELIMINARY & **FINAL SITE PLANS** 

**AMERICAN** PROPERTIES AT NORTH

> **BRUNSWICK, LLC** PROPOSED QUICKCHEK FOOD

STORE WITH FUEL SALES

BLK: 230 | LOT:15 1661-1689 ROUTE 130 TOWNSHIP OF NORTH BRUNSWICK

MIDDLESEX COUNTY, NEW JERSEY

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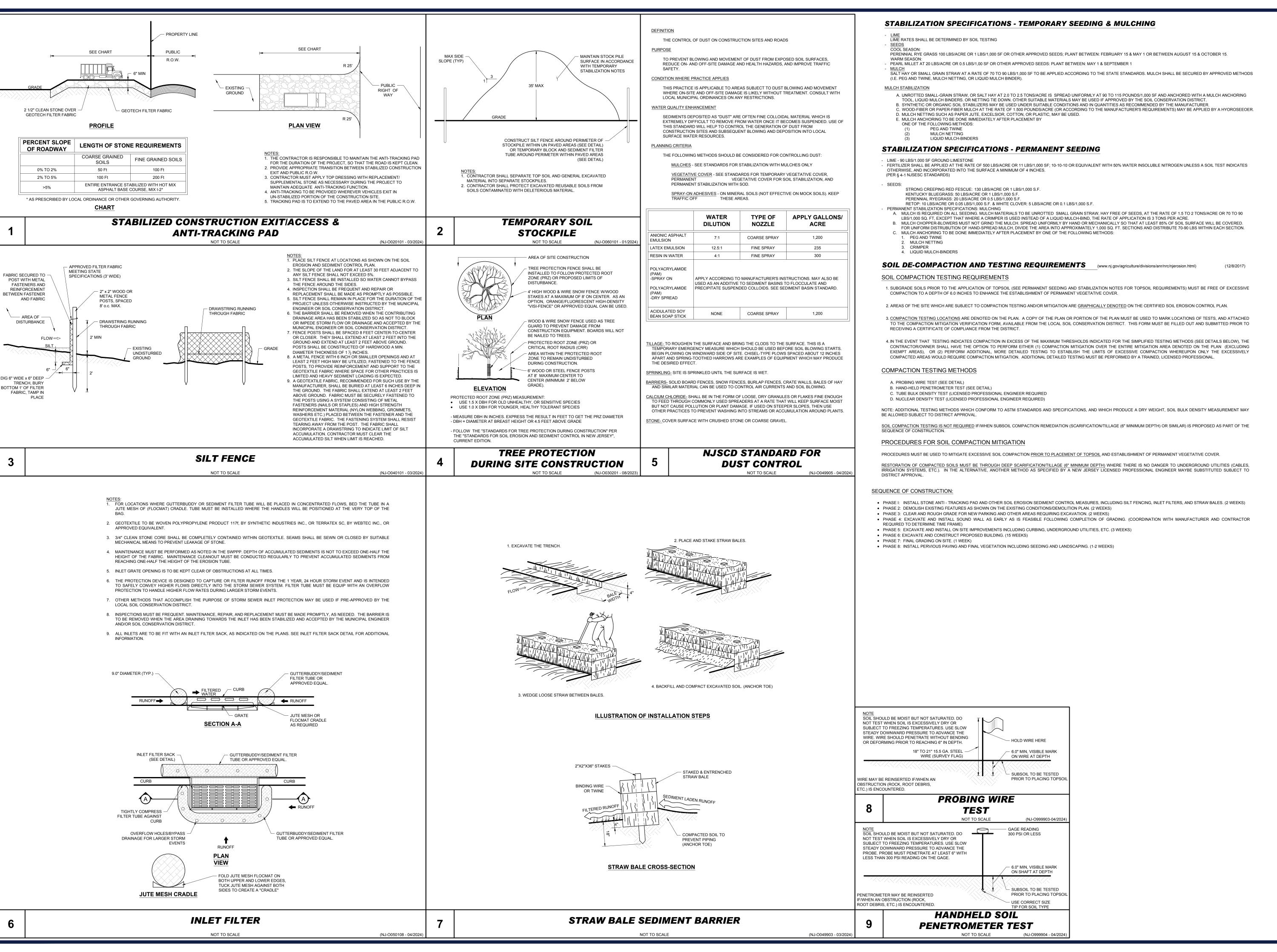
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SHEET TITLE:

**SOIL EROSION** AND SEDIMENT **CONTROL PLAN** 

C-801



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PROJECT:

PRELIMINARY & FINAL SITE PLANS

**AMERICAN** PROPERTIES AT NORTH **BRUNSWICK. LLC** 

PROPOSED QUICKCHEK FOOD

STORE WITH FUEL SALES BLK: 230 | LOT:15 1661-1689 ROUTE 130 **TOWNSHIP OF NORTH BRUNSWICK** 

**MIDDLESEX COUNTY, NEW JERSEY** 

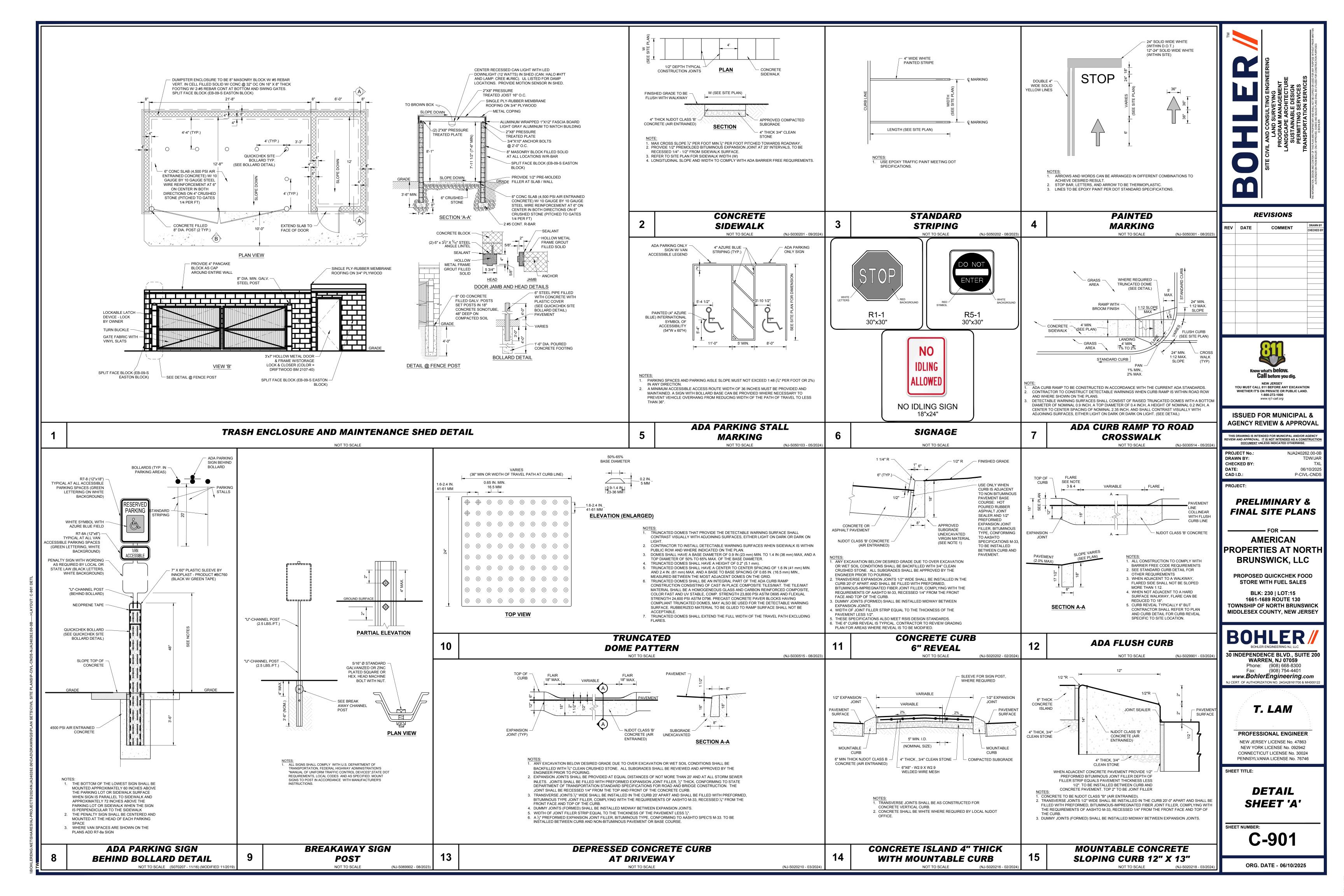
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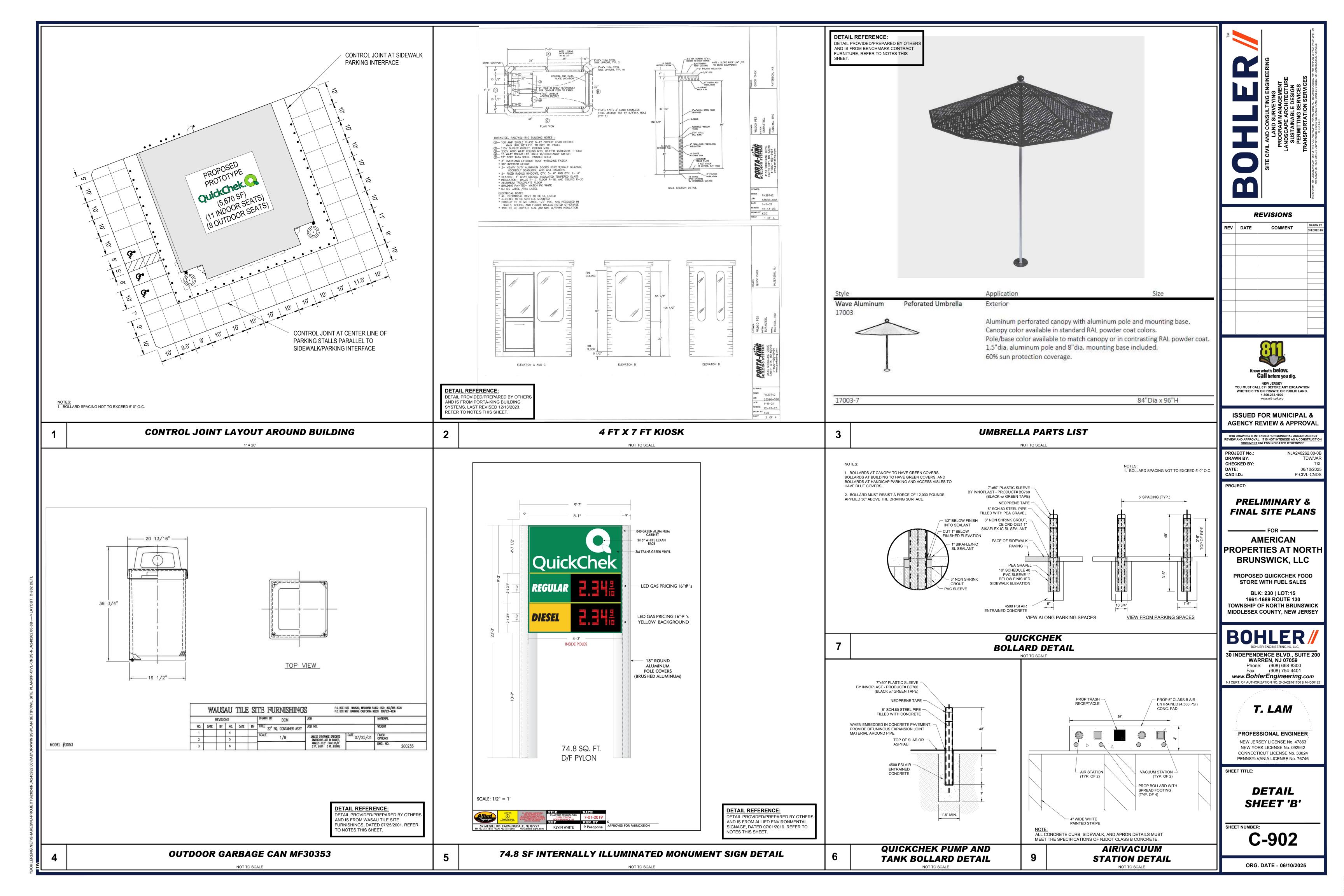
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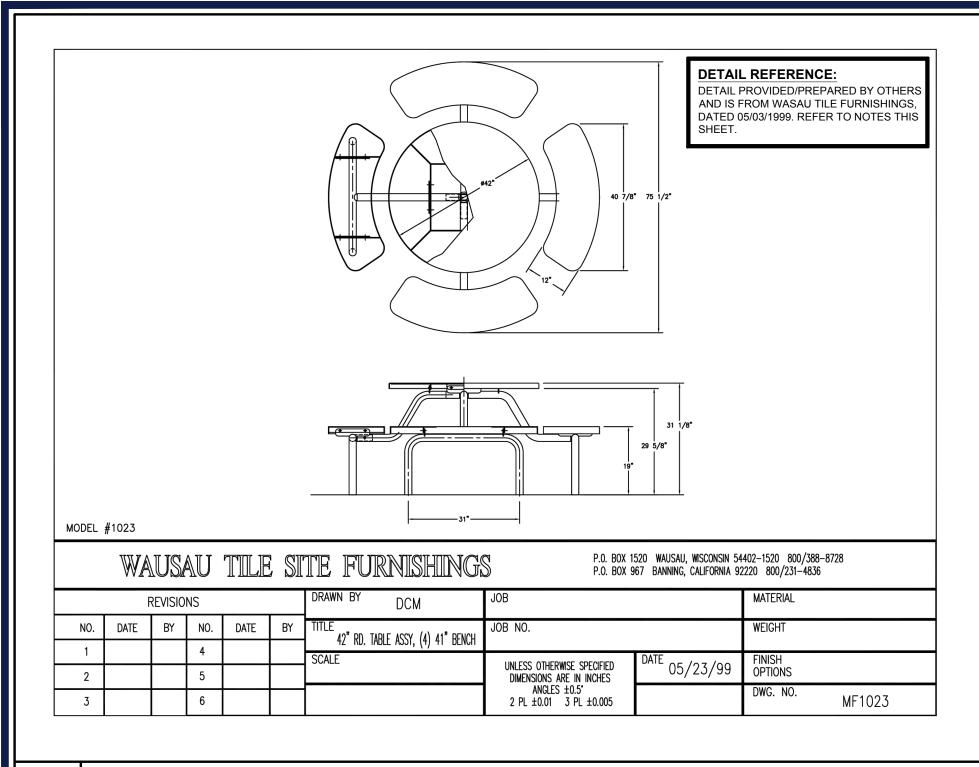
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SOIL EROSION AND SEDIMENT CONTROL **NOTES AND DETAILS** 



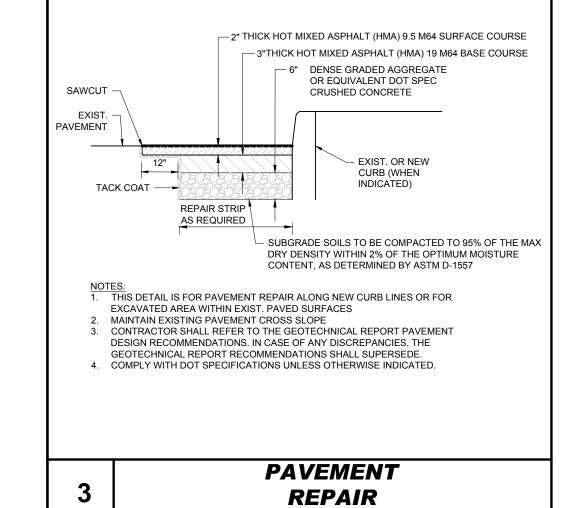




QUICKCHEK OUTDOOR TABLE DETAIL

NOT TO SCALE





NOT TO SCALE

(NJ-S010402 - 01/2025)



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PRELIMINARY & FINAL SITE PLANS

\_\_\_\_ FOR \_\_\_\_

AMERICAN
PROPERTIES AT NORTH
BRUNSWICK, LLC

PROPOSED QUICKCHEK FOOD STORE WITH FUEL SALES

BLK: 230 | LOT:15 1661-1689 ROUTE 130 TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY

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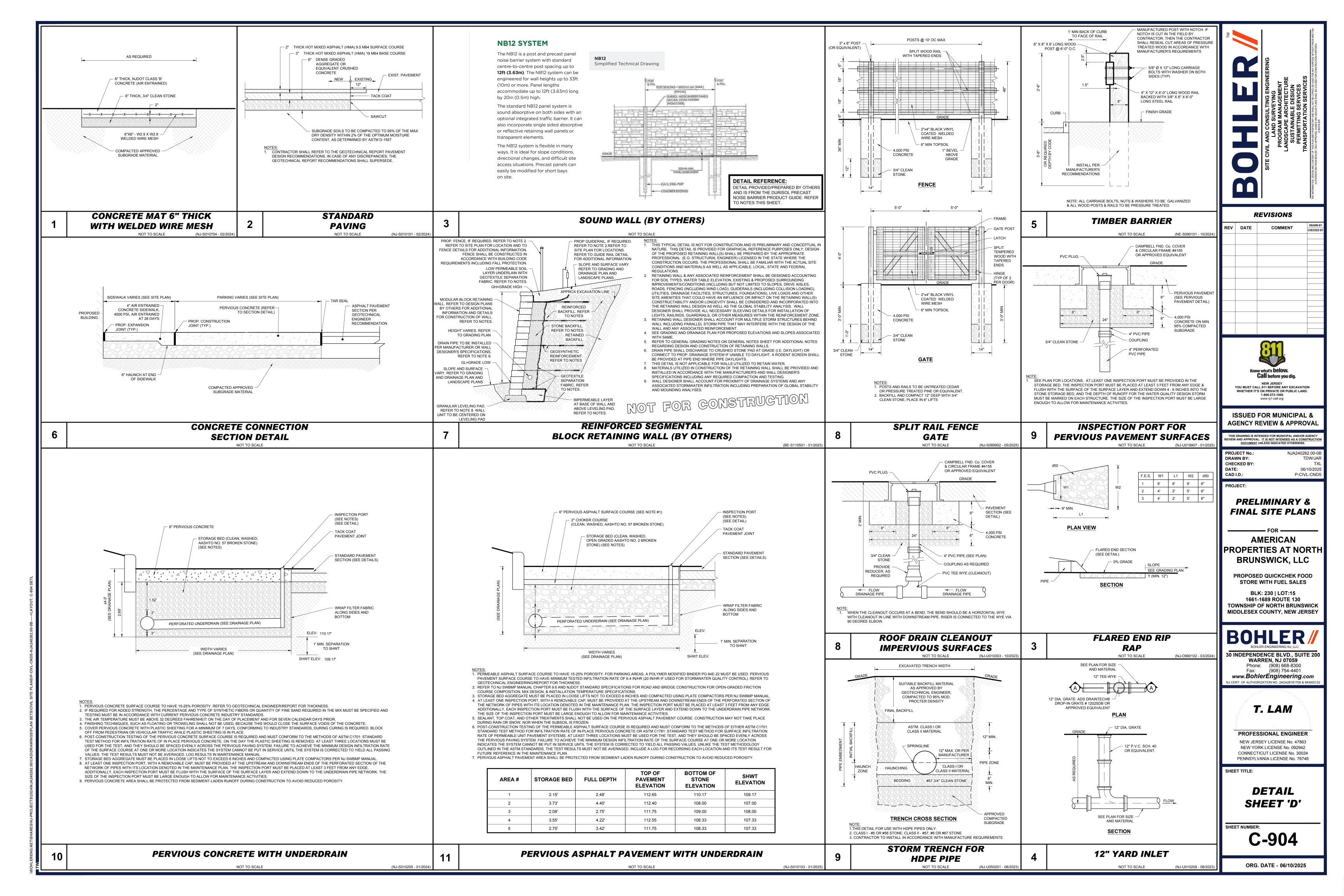
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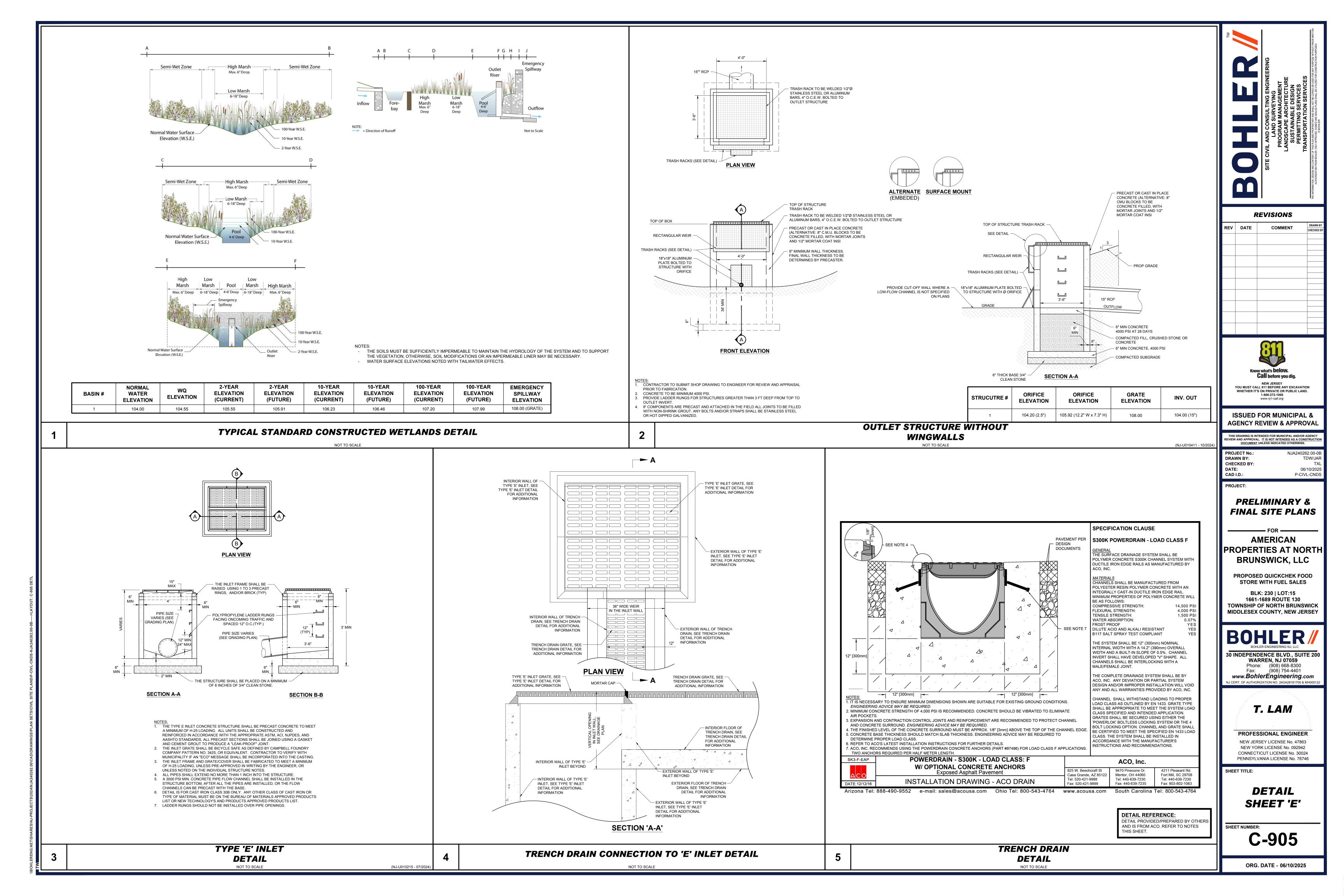
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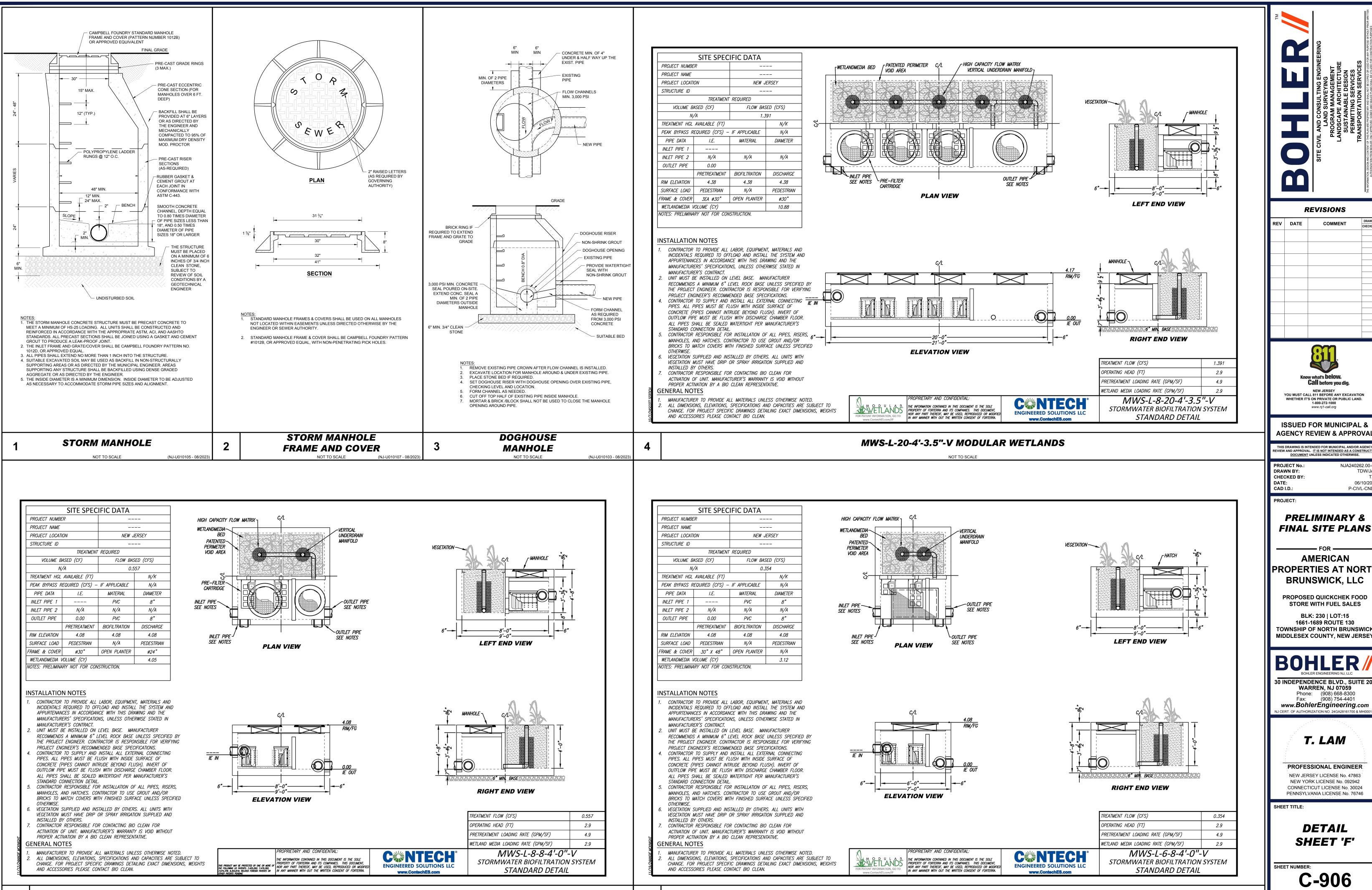
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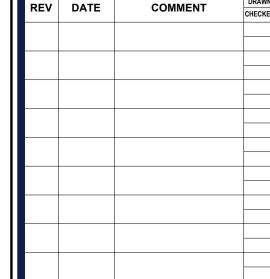
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MWS-L-8-8-4'-0"-V MODULAR WETLANDS





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PRELIMINARY &

FINAL SITE PLANS

FOR — **AMERICAN** PROPERTIES AT NORTH **BRUNSWICK, LLC** 

PROPOSED QUICKCHEK FOOD

STORE WITH FUEL SALES

BLK: 230 | LOT:15 1661-1689 ROUTE 130 TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY

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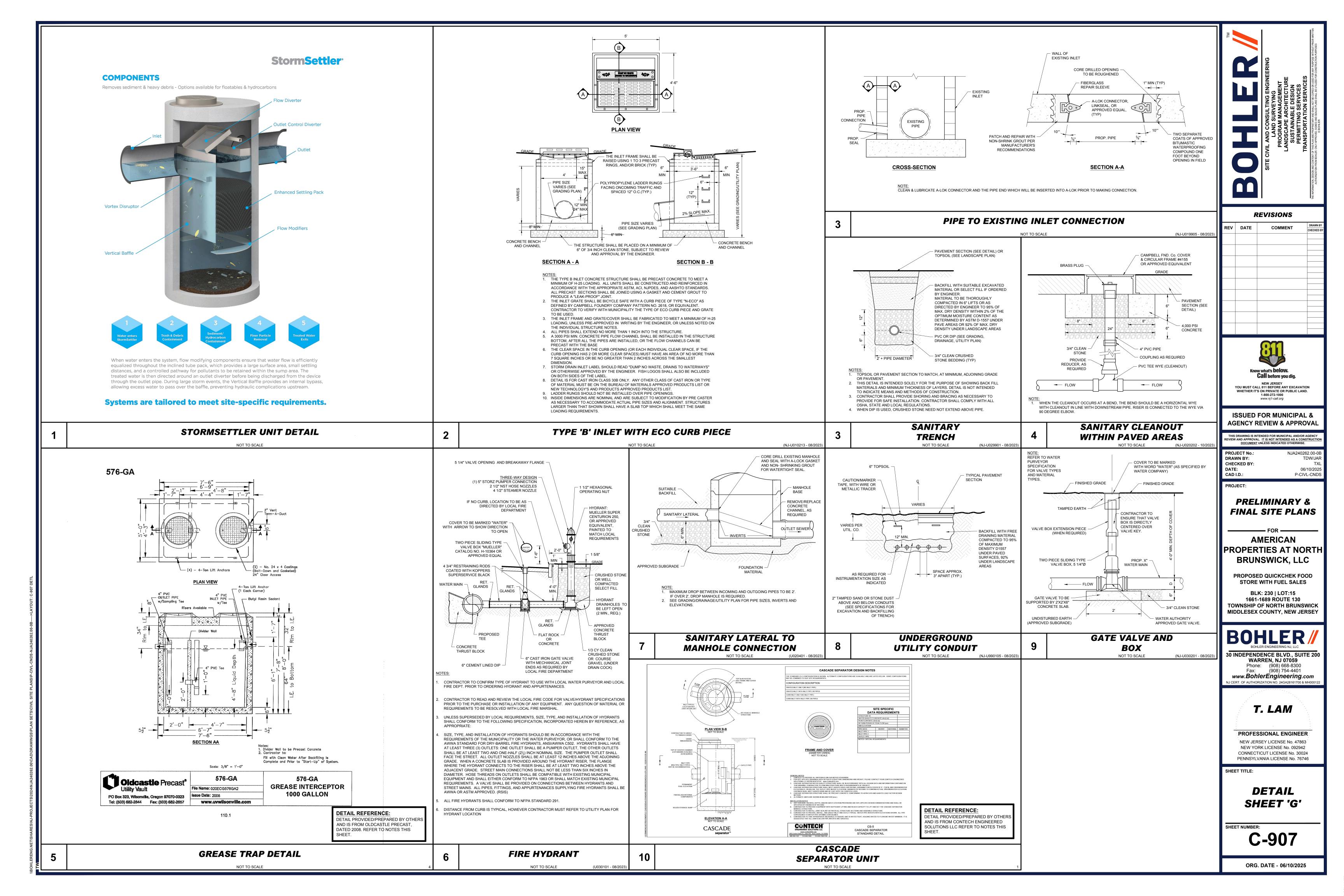
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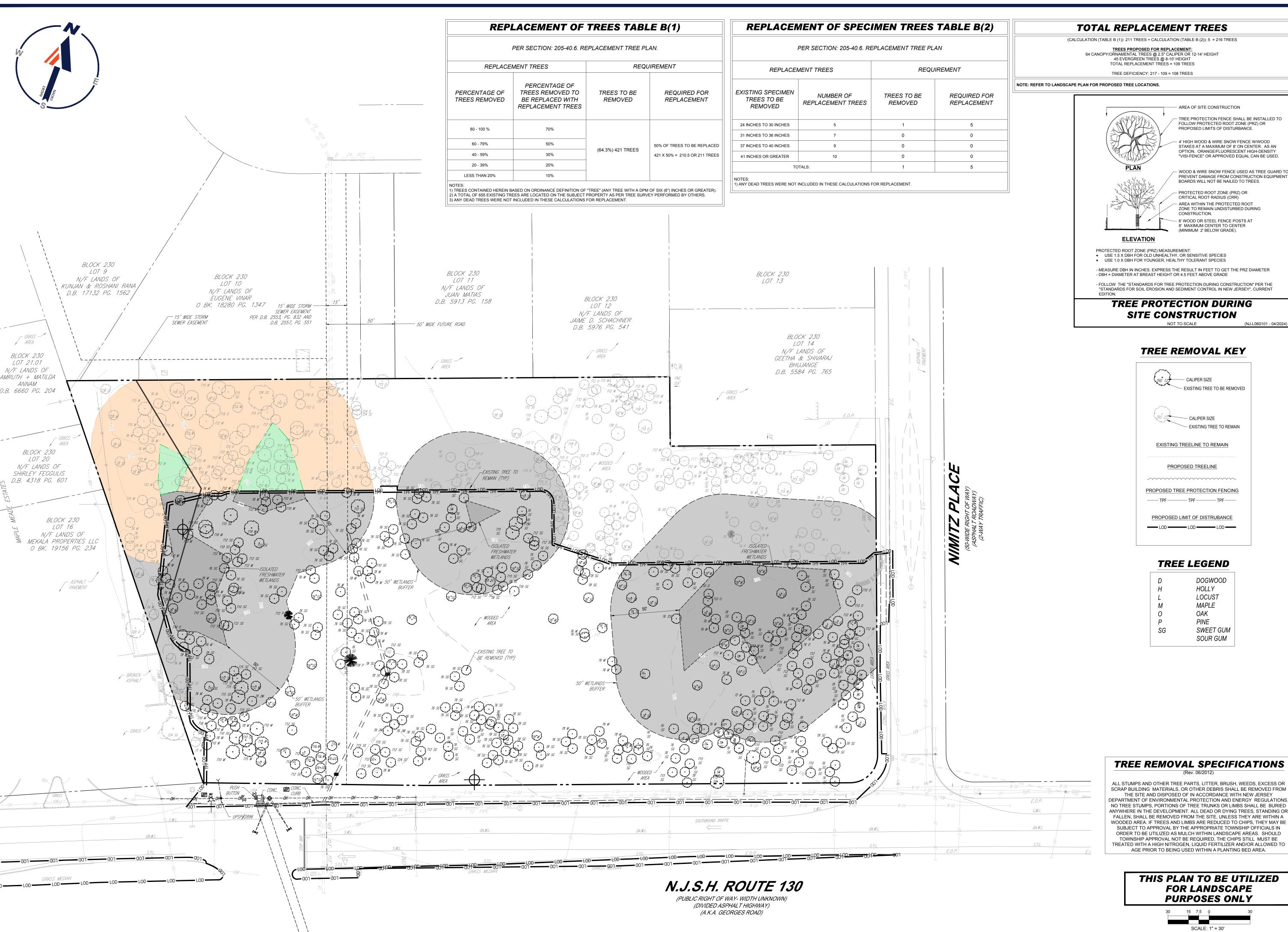
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DETAIL SHEET 'F'

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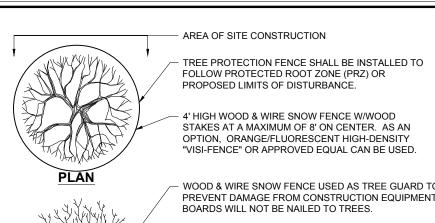




TOTAL REPLACEMENT TREES

TREES PROPOSED FOR REPLACEMENT:

64 CANOPY/ORNAMENTAL TREES @ 2.5" CALIPER OR 12-14' HEIGHT
45 EVERGREEN TREES @ 8-10' HEIGHT
TOTAL REPLACEMENT TREES = 109 TREES



- PROTECTED ROOT ZONE (PRZ) OR CRITICAL ROOT RADIUS (CRR) - AREA WITHIN THE PROTECTED ROOT ZONE TO REMAIN UNDISTURBED DURING CONSTRUCTION. - 6' WOOD OR STEEL FENCE POSTS AT 8' MAXIMUM CENTER TO CENTER (MINIMUM 2' BELOW GRADE).

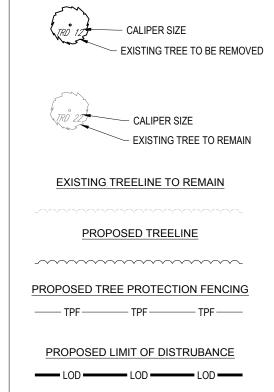
PROTECTED ROOT ZONE (PRZ) MEASUREMENT:

• USE 1.5 X DBH FOR OLD UNHEALTHY, OR SENSITIVE SPECIES USE 1.0 X DBH FOR YOUNGER, HEALTHY TOLERANT SPECIES

- MEASURE DBH IN INCHES. EXPRESS THE RESULT IN FEET TO GET THE PRZ DIAMETER - DBH = DIAMETER AT BREAST HEIGHT OR 4.5 FEET ABOVE GRADE

- FOLLOW THE "STANDARDS FOR TREE PROTECTION DURING CONSTRUCTION" PER THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY", CURRENT

TREE PROTECTION DURING SITE CONSTRUCTION



## TREE LEGEND

| D  | DOGWOOD   |
|----|-----------|
| Н  | HOLLY     |
| L  | LOCUST    |
| Μ  | MAPLE     |
| 0  | OAK       |
| Р  | PINE      |
| SG | SWEET GUI |
|    | SOUR GUM  |

PROPERTIES AT NORTH **BRUNSWICK, LLC** PROPOSED QUICKCHEK FOOD STORE WITH FUEL SALES

(NJ-L060101 - 04/2024)

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PRELIMINARY &

FINAL SITE PLANS

**AMERICAN** 

BLK: 230 | LOT:15 1661-1689 ROUTE 130

TOWNSHIP OF NORTH BRUNSWICK **MIDDLESEX COUNTY, NEW JERSEY** 

NJA240262.00-0E

06/10/2025 P-CIVL-TREM

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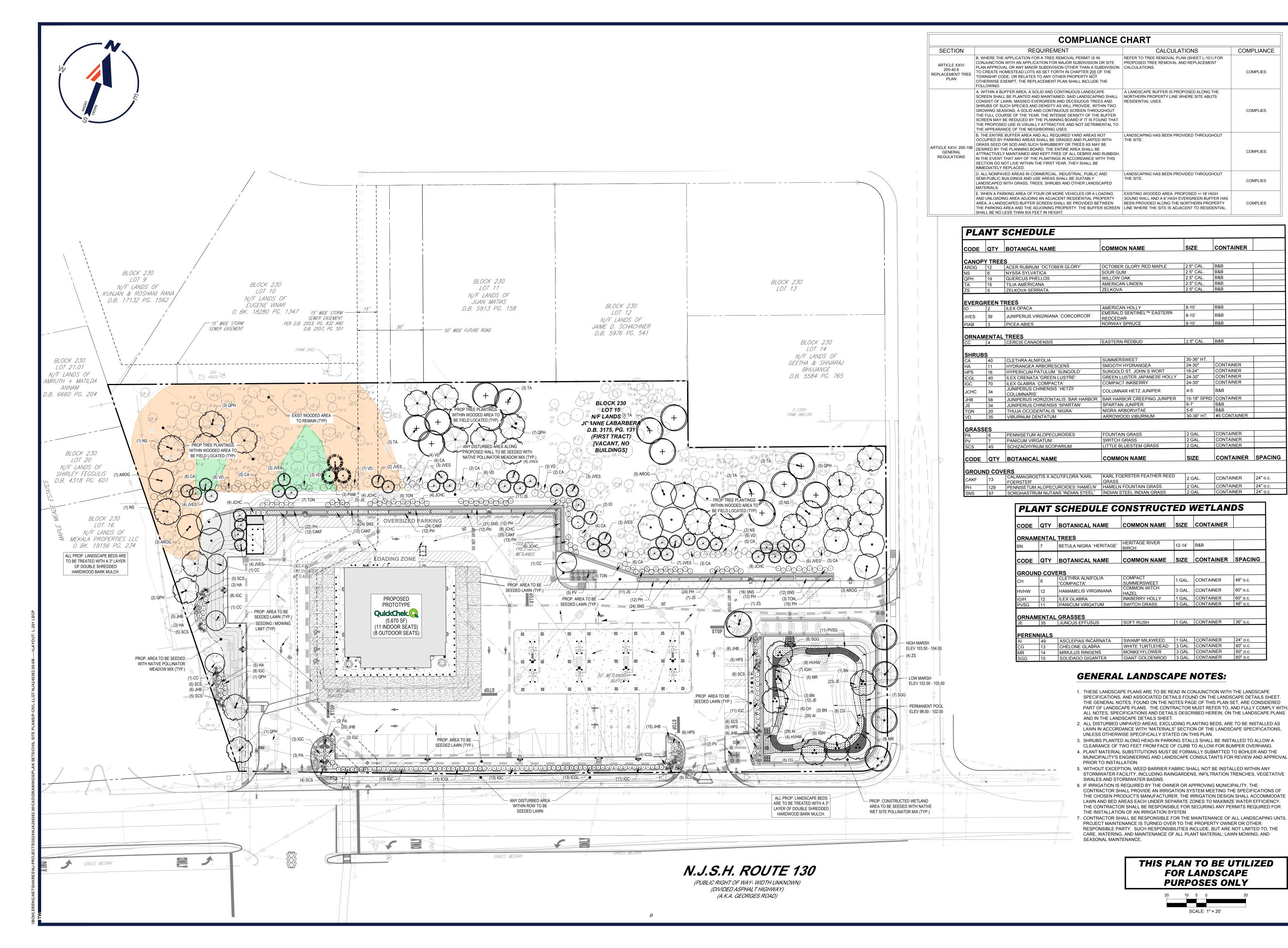
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TREE REMOVAL PLAN

L-101



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P-CIVL-LLGT

**AMERICAN** PROPERTIES AT NORTH

**BRUNSWICK, LLC** 

PROPOSED QUICKCHEK FOOD STORE WITH FUEL SALES

BLK: 230 | LOT:15 1661-1689 ROUTE 130 TOWNSHIP OF NORTH BRUNSWICK

**MIDDLESEX COUNTY, NEW JERSEY** 

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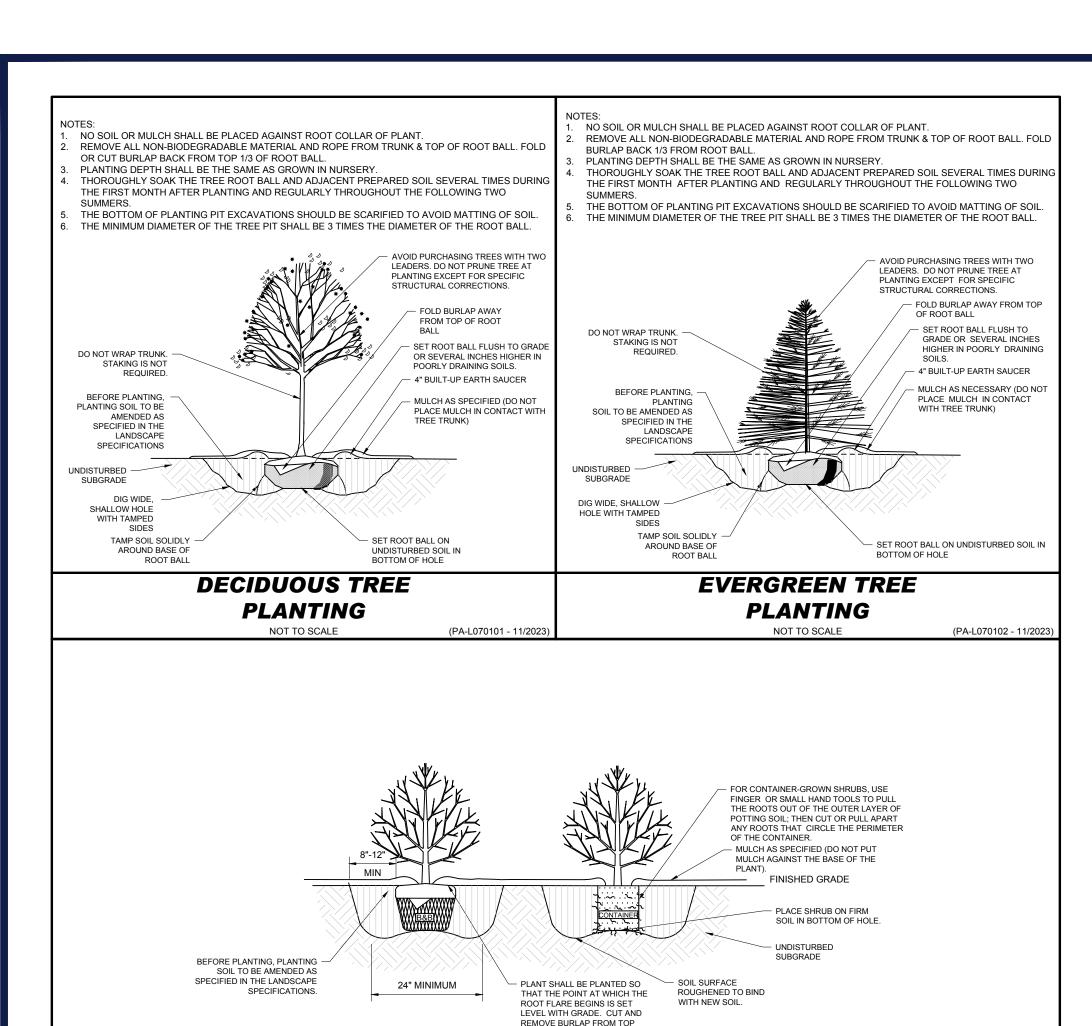
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SHEET TITLE:

*LANDSCAPE* PLAN

L-201



SHRUB PLANTING

(NJ-L070105 - 04/202

ONE-THIRD OF ROOT BALL AS

(PA-I 070201 - 11/2023

NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLAN' REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. CUT BANDS OF WIRE BASKET AND FOLD BURLAP BACK 1/3 FROM TOP OF ROOT BALL PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO 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 WHEN TREES ARE TO BE PLANTED ON TOP OF, OR ON THE SIDE SLOPES OF A LANDSCAPE BERM, THE BERM MATERIAL, BELOW ONE FOOT OF THE SURFACE, MUST BE COMPACTED IN LIFTS NOT TO

EXCEED 12 INCHES, TO AT LEAST 85% MAXIMUM MODIFIED PROCTOR DENSITY SET ROOT CROWN TO BE AT FINISH OR 1-2" ABOVE GRADE AVOID PURCHASING TREES WITH TWO -EADERS OR REMOVE ONE AT PLANTING: — 3" DOUBLE-SHREDDED. OTHERWISE, DO NOT PRUNE TREE AT HARDWOOD BARK MULCH (DC PLANTING EXCEPT FOR SPECIFIC NOT PLACE IN CONTACT WITH STRUCTURAL CORRECTIONS BEFORE PLANTING ADD 3 TO TWICE THE WIDTH 4" OF WELL-COMPOSTED OF THE ROOT BALL LEAVES OR RECYCLED YARD WASTE TO BED AND TILL INTO 4" BUILT-UP TOP 6" OF PREPARED SOIL EARTH SAUCER PREPARED SOIL FOR REES 1 PART PEAT MOSS 1 PART COW MANURE 3 PARTS TOPSOIL ROPOSED BUILT-UP WELL - CUT INTO SLOPE COMPACTED BACKFILL INDISTURBED SUBGRADE 4-6" DEEPER THAN ROOT BAL DIG WIDE. SHALLOW HOLE CUT BANDS OF WIRE BASKET AND WITH TAMPED SIDES FOLD AWAY FROM TOP OF ROOT BALL TAMP SOIL SOLIDLY AROUND BASE OF ROOT BALL

> TREE PLANTING ON SLOPE NOT TO SCALE

## **CONSTRUCTED WETLAND NOTES**

- 2021) HAS BEEN REFERENCED FOR THE LANDSCAPE DESIGN OF CONSTRUCTED
- ONE (1) CONSTRUCTED WETLAND IS PROPOSED FOR THE PROJECT. PER NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL

NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL (MARCH

- VEGETATIVE COVER FOR CONSTRUCTED WETLANDS MUST BE MAINTAINED AT
- THE SOILS MUST BE SUFFICIENTLY IMPERMEABLE TO MAINTAIN THE HYDROLOGY OF THE SYSTEM AND TO SUPPORT THE VEGETATION: OTHERWISE, SOIL MODIFICATIONS OR AN IMPERMEABLE LINER MAY BE NECESSARY.
- PLANT COMMUNITIES DEVELOP BEST THROUGH THE USE OF WETLAND MULCH WHICH IS ENRICHED WITH PLANT ROOTS AND SEEDS. WETLAND MULCH ENHANCES THE DIVERSITY OF THE PLANT COMMUNITY AND SPEEDS ESTABLISHMENT: HOWEVER THE CONTENT IS OFTEN UNPREDICTABLE AND UNDESIRABLE SPECIES MAY BE INTRODUCED. IF WETLAND MULCH IS USED. IT SHOULD BE COLLECTED AT THE END OF THE GROWING SEASON AND KEPT MOIST UNTIL INSTALLATION

### CONSTRUCTED WETLAND VEGETATION **MAINTENANCE NOTES**

- BI-WEEKLY INSPECTIONS ARE REQUIRED WHEN ESTABLISHING/RESTORING VEGETATION. A MINIMUM OF ONE INSPECTION DURING THE GROWING SEASON AND ONE INSPECTION DURING THE NON-GROWING SEASON IS REQUIRED TO ENSURE THE
- HEALTH, DENSITY AND DIVERSITY OF THE VEGETATION. VEGETATIVE COVER MUST BE MAINTAINED AT 85% DAMAGE MUST BE ADDRESSE THROUGH REPLANTING IN ACCORDANCE WITH THE ORIGINAL SPECIFICATIONS PRUNING WITHIN THE STANDARD CONSTRUCTED WETLANDS MUST BE PERFORMED ON A REGULAR SCHEDULE BASED ON SPECIFIC SITE CONDITIONS;
- PERIMETER GRASS SHOULD BE MOWED AT LEAST ONCE A MONTH DURING GROWING SEASON VEGETATED AREAS MUST BE INSPECTED AT LEAST ONCE ANNUALLY FOR EROSION, SCOUR AND UNWANTED GROWTH: ANY UNWANTED GROWTH SHOUL BE REMOVED WITH MINIMUM DISRUPTION TO THE REMAINING VEGETATION. E TYPES AND DISTRIBUTION OF DOMINANT PLANTS MUST BE ASSESSED DUR THE SEMI-ANNUAL WETLAND INSPECTIONS, AND AN APPROPRIATE BALANCE BETWEEN ORIGINAL AND VOLUNTEER SPECIES MUST BE ACHIEVED IN

ACCORDANCE WITH THE INTENT OF THE SYSTEM'S ORIGINAL DESIGN.

INTENDED PURPOSE OF THE STANDARD CONSTRUCTED WETLAND

MEANS TO ENSURE OPTIMUM VEGETATION MUST NOT COMPROMISE THE

ALL USE OF FERTILIZERS, PESTICIDES, MECHANICAL TREATMENTS AND OTHER

LANDSCAPE SPECIFICATIONS

THE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR

. GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.

B. TOPSOIL - NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 5.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS. C. LAWN - LAWN AREAS SHALL BE SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED WITHIN THE SOIL EROSION AND

SEDIMENT CONTROL NOTES. FOR SOIL BED PREPARATIONS, REFER TO ITEM 8 BELOW. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE/PEST FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE

PEGGED TO HOLD SOD IN PLACE MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE

FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO LISE FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.

PLANT MATERIAL ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY AMERICAN HORT (FORMERLY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION)

IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 11/4", WHICH HAVE NOT BEEN COMPLETELY CALLUSED, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.

ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH: WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE INSECTS. PESTS, EGGS OR LARVAE CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER

SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.

TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.

CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY ALL DEBRIS MATERIALS AND TOOLS SHALL BE PROPERLY STORED. STOCKPILED OR DISPOSED OF

B. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE DEBRIS SHALL NOT BE BURIED. INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.

BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN

ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN. B. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING

TREES AS NEEDED TO PREVENT SHOCK OR DECLINE CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR 15 FEET FROM THE TRUNK OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.

B. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY 'VISI-FENCE', OR APPROVED EQUAL, MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.

WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED

D. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.

A. CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY B. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE CONTRACTOR DEPENDING ON SITE CONDITIONS.

THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH 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.

TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE

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

FINISHED GRADING

UNLESS OTHERWISE CONTRACTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1"±).

ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT. D. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER

SHALL NOT BE PERMITTED IN PLANTING BEDS.

. CONTRACTOR SHALL PROVIDE A SIX INCH (6") THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AND

AWN AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED STORED AND PROTECTED PRIOR TO CONSTRUCTION

CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE D. ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN

ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY [SEE SPECIFICATION 6.A.]): 20 POUNDS 'GRO-POWER' OR APPROVED EQUAL SOIL CONDITIONER/FERTILIZER

## **WET SITE POLLINATOR MEADOW MIX:**

|         |                              |                            | Wetland   |                |
|---------|------------------------------|----------------------------|-----------|----------------|
|         |                              |                            | Indicator |                |
|         | Botanical Name               | Common Name                | Status    | Classification |
| 20.00 % | Elymus virginicus            | Virginia Wild Rye          | FACW      | Graminoid      |
| 19.00 % | Carex vulpinoidea            | Fox Sedge                  | OBL       | Graminoid      |
| 8.00 %  | Carex Iurida                 | Shallow sedge              | OBL       | Graminoid      |
| 6.00 %  | Panicum clandestinum         | Deertongue                 | FACW      | Graminoid      |
| 5.00 %  | Andropogon glomeratus        | Bushy Beardgrass           | FACW      | Graminoid      |
| 5.00 %  | Helenium autumnale           | Common Sneezeweed          | FACW+     | Forb           |
| 5.00 %  | Juncus effusus               | Soft Rush                  | FACW+     | Graminoid      |
| 5.00 %  | Ludwigia alternifolia        | Seedbox                    | FACW      | Forb           |
| 5.00 %  | Vernonia noveboracensis      | New York Ironweed          | FACW+     | Forb           |
| 3.00 %  | Carex lupulina               | Hop Sedge                  | OBL       | Graminoid      |
| 2.50 %  | Scirpus cyperinus            | Woolgrass                  | FACW+     | Graminoid      |
| 2.00 %  | Asclepias incarnata          | Swamp Milkweed             | OBL       | Forb           |
| 2.00 %  | Calamagrostis canadensis     | Bluejoint Grass            | FACW+     | Graminoid      |
| 2.00 %  | Eutrochium dubium            | Coastal Plain Joe-Pye Weed | FACW      | Forb           |
| 2.00 %  | Symphyotrichum novae-angliae | New England Aster          | FACW      | Forb           |
| 2.00 %  | Veronicastrum virginicum     | Culver's Root              | FACW      | Forb           |
| 1.00 %  | Asclepias incarnata pulchra  | Swamp Milkweed             | OBL       | Forb           |
| 1.00 %  | Eupatorium perfoliatum       | Common Boneset             | FACW      | Forb           |
| 1.00 %  | Eutrochium fistulosum        | Hollow Joe-Pye Weed        | FACW      | Forb           |
| 1.00 %  | Symphyotrichum novi-belgii   | New York Aster             | FACW+     | Forb           |
| 1.00 %  | Verbena hastata              | Blue Vervain               | FACW+     | Forb           |
| 0.50 %  | Helianthus angustifolius     | Swamp Sunflower            | FACW      | Forb           |
| 0.50 %  | Hibiscus moscheutos          | Swamp Rose-Mallow          | OBL       | Forb           |
| 0.50 %  | Solidago sempervirens        | Seaside Goldenrod          | FACW      | Forb           |

TEMPORARY SEEDING SPECIFICATION AS NOTES ON THE SOIL EROSION & SEDIMENT CONTROL PLAN SHALL NOT APPLY TO THIS

- 1. SEED MIX BY PINELANDS NURSERY & SUPPLY, 323 ISLAND ROAD, COLUMBUS, NJ 08022. TELEPHONE: (609) 291-9486 WEBSITE: WWW.PINELANDSNURSERY.COM.
- STANDING WATER WILL NEED TO BE DRAINED DURING THE SEEDING AND TEMPORARY STABILIZATION PROCESS. SEED SHOULD BE APPLIED USING DRILL SEEDING OR BROADCAST SEEDING METHODS ONLY. THIS SEED MIX WILL NOT

GERMINATE WELL WITH HYDROSEEDING METHODS

- 4. SEED MIX WILL NEED DAILY SUPPLEMENTAL WATERING UNTIL IT HAS GERMINATED AND REACHED AN AVERAGE HEIGHT OF
- SEEDING AREA SHOULD NOT BE MOWED AT ALL THE FIRST YEAR, AND THEN NO MORE THAN ONCE PER YEAR DURING THE DORMANT SEASON

20 POUNDS 'NITRO-FORM' (COURSE) 38-0-0 BLUE CHIP OR APPROVED NITROGEN FERTILIZER E. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.

. INSOFAR THAT IT IS FEASIBLE. PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE. CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL, PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY, PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.

ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.

ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO

EXCAVATING PITS. MAKING NECESSARY ADJUSTMENTS AS DIRECTED. 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 APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS: PLANTS: MARCH 15TH TO DECEMBER 15TH

LAWN AND MEADOW SEED MIXES: MARCH 1ST TO MAY 15TH OR BETWEEN AUGUST 15TH AND OCTOBER 15TH PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS

FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL

ACER RUBRUM PLATANUS X ACERIFOLIA BETULA VARIETIES POPULUS VARIETIES **CARPINUS VARIETIES PRUNUS VARIETIES CRATAEGUS VARIETIES PYRUS VARIETIES** KOELREUTERIA QUERCUS VARIETIES LIQUIDAMBAR STYRACIFI UA TILIA TOMENTOSA LIRIODENDRON TULIPIEERA ZELKOVA VARIETIES

PLANTING PITS SHALL BE DUG WITH LEVEL OR CONVEX BOTTOMS, WITH THE WIDTH THREE TIMES THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY: 1 PART PEAT MOSS

1 PART COMPOSTED COW MANURE BY VOLUME

3 PARTS TOPSOIL BY VOLUME 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:

2 TABLETS PER 1 GALLON PLANT 3 TABLETS PER 5 GALLON PLAN

4 TABLETS PER 15 GALLON PLANT

LARGER PLANTS: 2 TABLETS PER 1/2" CALIPER OF TRUNK FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY. ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL.

K. ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE. NO PRUNING SHALL BE CONDUCTED WITHIN THE FIRST YEAR OF PLANTING. GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL

BE WEEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SAUCER. NO MULCH IS TO TOUCH THE

TRUNK OF THE TREE OR SHRUB

). ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.

A. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT. (SEE SPECIFICATION 2.F. ABOVE) B. IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT SUN AND WIND

PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10TH AND JUNE 30TH. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.

**Botanical Name** 

12.00 % Schizachyrium scoparium

16.00 % Elymus virginicus

0.50 % Baptisia australis

0.45 % Rudbeckia fulgida

0.20 % Asclepias syriaca

0.30 % Asclepias incarnata pulchra

0.20 % Heliopsis helianthoides

TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN. IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.

. NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.

WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED. SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL

NECESSARY WATER THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES. IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.

12 GUARANTE THE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE

ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION. A PLANT SHALL BE CONSIDERED "DEAD OR DYING" IF MORE THAN 30% OF ITS BRANCHES ARE DEAD TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND UNTIL TURNOVER TO THE OWNER/OPERATOR. CULTIVATION,

WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE. D. LAWNS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND UNTIL TURNOVER TO THE OWNER/OPERATOR THROUGH WATERING, FERTILIZING,

WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

A. UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE. THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS. EQUIPMENT AND DEBRIS FROM THE SITE, ALL PAVED AREAS ARE TO BE CLEANED.

THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.

## **POLLINATOR MEADOW MIX:**

Wetland Common Name Indicator Status Virginia Wild Rye **FACW** Little Bluestem FACU-

Classification

Graminoid

Graminoid

Forb

Forb

Forb

Forb

Forb

10.00 % Tridens flavus UPL Graminoid Purpletop 6.00 % Sorghastrum nutans UPL Graminoid Indiangrass 5.00 % Chamaecrista fasciculata **FACU** Forb Partridge Pea 5.00 % Eragrostis spectabilis FACU Purple Love Grass Graminoid 4.00 % Andropogon gerardii Big Bluestem FAC Graminoid FACU 4.00 % Echinacea purpurea Purple Coneflower Forb 4.00 % Helenium autumnale Common Sneezeweed FACW+ Forb 3.00 % Monarda fistulosa Wild Bergamot UPL Forb 3.00 % Solidago nemoralis Forb Gray Goldenrod Forb 3.00 % Symphyotrichum laeve Smooth Aster 2.00 % Coreopsis lanceolata Lanceleaf Tickseed **FACU** Forb 2.00 % Eupatorium purpureum Purple Joe-Pye FAC Forb 2.00 % Eutrochium dubium Forb Coastal Plain Joe-Pye Weed FACW 2.00 % Penstemon digitalis FAC Forb Foxglove Beardtongue FACW Forb 2.00 % Symphyotrichum novae-angliae New England Aster Forb 2.00 % Vernonia noveboracensis New York Ironweed FACW+ 1.00 % Achillea millefolium FACU Common Yarrow Graminoid FAC Forb 1.00 % Desmodium canadense Showy Tick-trefoil 1.00 % Eryngium yuccifolium Rattlesnake Master **FACU** Forb 1.00 % Liatris spicata Dense Blazing Star FAC+ Forb 1.00 % Pycnanthemum incanum Hoary Mountain Mint FAC Forb 1.00 % Pycnanthemum tenuifolium FAC Forb Slender Mountain Mint FACU-Forb 1.00 % Rudbeckia hirta Black-Eyed Susan 1.00 % Rudbeckia laciniata **Cutleaf Coneflower** Forb 1.00 % Solidago juncea Early Goldenrod Forb 1.00 % Zizia aurea FAC Forb Golden Alexander 0.70 % Asclepias incarnata Swamp Milkweed 0.55 % Verbesina alternifolia FAC Forb Wingstem

0.10 % Asclepias tuberosa **Butterfly Weed** SEEDING RATE: 15 LB PER ACRE OF SEED MIX WITH AN ADDITIONAL 30 LBS PER ACRE OF GRAIN RYE (AS A NURSE CROP). THE TEMPORARY SEEDING SPECIFICATION AS NOTES ON THE SOIL EROSION & SEDIMENT CONTROL PLAN SHALL NOT APPLY TO THIS

Blue Wild Indigo

Orange Coneflower

Common Milkweed

Swamp Milkweed

False Sunflower

FACU

FAC

- 1. SEED MIX BY PINELANDS NURSERY & SUPPLY, 323 ISLAND ROAD, COLUMBUS, NJ 08022. TELEPHONE: (609) 291-9486 WEBSITE: WWW PINEL AND SNURSERY COM STANDING WATER WILL NEED TO BE DRAINED DURING THE SEEDING AND TEMPORARY STABILIZATION PROCESS.
- SEED SHOULD BE APPLIED USING DRILL SEEDING OR BROADCAST SEEDING METHODS ONLY. THIS SEED MIX WILL NOT GERMINATE WELL WITH HYDROSEEDING METHODS.
- 4. SEED MIX WILL NEED DAILY SUPPLEMENTAL WATERING UNTIL IT HAS GERMINATED AND REACHED AN AVERAGE HEIGHT OF
- SEEDING AREA SHOULD NOT BE MOWED AT ALL THE FIRST YEAR, AND THEN NO MORE THAN ONCE PER YEAR DURING THE

REVISIONS COMMENT REV DATE



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PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 47863 NEW YORK LICENSE No. 092942

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PENNSYLVANIA LICENSE No. 76746

SHEET TITLE:

**LANDSCAPE NOTES AND DETAILS** 

L-202

|  |  |   |                                   |   | LIMINAIDE COL   | JEDIJI E        |        |                   |   |   |
|--|--|---|-----------------------------------|---|---|-----------------|--------|-------------------|---|---|
|  | SYMBOL   | QTY   | LABE                              | L MTG. HT                               | DESCRIPTION LUMINAIRE SCH   | ARRNGMNT.       | LUMENS | LLF               | IES FILENAME  | CATALOG #   |
| W  | J TIVIDOL  | 9   | PFT-S                             |   | LSI INDUSTRIES SLICE MEDIUM (SLM) SERIES LED AREA LIGHT W/ INTERNAL LOUVER HOUSE SIDE SHIELD  | SINGLE          | 12,568 | 0.900             |   | SLM-LED-18L-SIL-FT-XXX-XXX-DIM-50-70CRI-XXX-BRZ-I   |
|  |  | 1   | P5                                | 18.5'                                   | LSI INDUSTRIES SLICE MEDIUM (SLM) SERIES LED AREA LIGHT   | SINGLE          | 18,327 | 0.900             | SLM-LED-18L-SIL-5W-30-70CRI.IES   | SLM-LED-18L-SIL-5W-XXX-XXX-DIM-50-70CRI-XXX-BRZ   |
| E<br>§ S S   | -  | 1   | P4-S                              | 18.5'                                   | LSI INDUSTRIES SLICE MEDIUM (SLM) SERIES LED AREA LIGHT   | SINGLE          | 12,011 | 0.900             | SLM-LED-18L-SIL-4-30-70CRI-IL.IES   | SLM-LED-18L-SIL-4-XXX-XXX-DIM-50-70CRI-XXX-BRZ-IL   |
|  |  | 12  | C-1                               | 14.5'                                   | LSI INDUSTRIES SCOTTSDALE VERTEX (SCV) SERIES LED CANOPY LIGHT  | SINGLE          | 15,410 | 0.900             | SCV-LED-15L-SC-30.IES   | SCV-LED-15L-SC-XXX-DIM-50-WHT   |
|  |  | 12  | C-2                               | 14.5'                                   | LSI INDUSTRIES SCOTTSDALE VERTEX (SCV) SERIES LED CANOPY LIGHT  | SINGLE          | 24,361 | 0.900             | SCV-LED-23L-SCFT-30.IES   | SCV-LED-23L-SCFT-XXX-DIM-50-WHT   |
|  | <b>H</b>   | 11  | S-1                               | -                                       | EATON HALO 600 SERIES 5/6 INCH LED RECESSED RETROFIT MODULE-TRIM  | SINGLE          | 653    | 0.900             | RL560WH6940   | RL560WH6940   |
|  |  |   |                                   | TS HAVE NOT BEEN                        | LSI INDUSTRIES MIRADA (XWM) SERIES LED WALL SCONCE MODELED FOR THIS DESIGN.   | SINGLE          | 4,508  | 0.900             | XWM-FT-LED-04-30  | XWM-FT-LED-04L-30-XXX-BRZ-DIM   |
|  | 2. C-2 FIXTUR  | RE GRAPHIC ( ^                                  | ) INDICATE                        | S DIRECTION OF LI                       | GHT DISTRIBUTION.   |                 |        |                   |   |   |
|  |  |   |                                   |   |   |                 |        |                   | TOWNSH  | HIP REQUIREMENTS  |
|  | <br>   |   |                                   | <br>                                    |   | <b>I</b>        |        |                   | PER SECTION   | : 205-108 SPECIFIC STANDARDS.   |
|  |  |   |                                   |   |   |                 |        |                   | LOCATION  | REQUIRED PROPOSED   |
|  |  |   |                                   |   |   |                 |        |                   | MAXIMUM AT PROPERTY LINE  | 0.5 FC 3.0 FC*  |
|  |  |   |                                   | <br>                                    |   | ı               |        |                   |   | DRIVE ALONG N.J.S.H. ROUTE 130 RESOLUTION ADOPTED BY TOWNSHIP OF NORTH ADJUSTMENT, DATED 10/18/2022.  |
| BLOCK 230 /  |  |   |                                   |   | BLOCK 230   |                 |        |                   |   |   |
| N/F LANDS OF  LOT 11  N/F LANDS OF  N/F LANDS OF   |  |   |                                   |   | LOT 13  |                 |        |                   |   |   |
| EUGENE VINAR  O BK. 18280 PG. 1347 15' WIDE STORM  D.B. 5913 PG. 158   | <br>   | BLOCK<br>LOT 1                                  | 230<br>12                         | <br>                                    |   |                 |        |                   |   |   |
| SEWER EASEMENT  15' WIDE STORM  PER D.B. 2553, PG. 832 AND  D.B. 2557, PG. 551  50'  50' WIDE FUTURE ROAD  |  | N/F LANL<br>JAIME D. SC.                        | DS OF<br>HACHNEF                  | 7                                       |   | I<br>  I<br>  I |        |                   |   |   |
|  |  | D.B. 5976                                       | ru. 541                           |   | BLOCK 230<br>LOT 14   |                 |        |                   |   |   |
| OCK 230  |  |   |                                   | *                                       | N/F LANDS OF  GEETHA & SHIVARAJ   |                 |        |                   |   |   |
| ANDS OF  |  |   |                                   | ,                                       | BHUJANGE<br>D.B. 5584 PG. 765   |                 |        |                   |   |   |
| + MATILDA<br>NNAM<br>60 PG. 204  | 0.0 0.0 0.0 0.0  | 0 0.0   | 00 0.0                            | 0.0 0.0 0.0                             | 0.0     0.0 <td>0.0</td> <td></td> <td></td> <td></td> <td></td>  | 0.0             |        |                   |   |   |
| 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  | 0.0 0.0 0.0 0.0  | BLOCK 230                                       |                                   | 0.0 0.0 0.0                             | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  |                 |        |                   |   |   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | 00 JOA   | N/F LANDS O                                     | F° €°<br>BERA†                    | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.0     0.0 <td></td> <td></td> <td></td> <td></td> <td></td>   |                 |        |                   |   |   |
| 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  | to.0 to.0 to.0 to.0  | .B. 3175, PG.<br>(FIRST TRAC                    | <b>7</b> ) 0 0 0                  | to.0 to.0 to.0                          | b.o   | ₸.0             |        | GE                | ENERAL LIGHTING   | NOTES:  |
| BLOCK 230  00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.   |  | [VACANT, NO. BUILDINGS]                         |                                   | Ō.O Ō.O Ō.O                             | 0.0     0.0 <td>0.0</td> <td></td> <td>1. TH</td> <td>HE GENERAL NOTES, FOUND ON THE NOT</td> <td>ES PAGE OF THIS PLAN SET, MUST BE INCLUDED AS PA</td>   | 0.0             |        | 1. TH             | HE GENERAL NOTES, FOUND ON THE NOT  | ES PAGE OF THIS PLAN SET, MUST BE INCLUDED AS PA  |
| LOT 20  V/F LANDS OF  VIRLEY FEGGULIS  10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  | 0.0 0.0 0.0 0.   | 0.0 0.0   | ō.o ō.o €                         | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | \$\docume{t}_0\docu | † † .o          |        | OF<br>EL<br>Th    | F THIS ENTIRE DOCUMENT PACKAGE AND<br>LECTRICAL CONTRACTOR MUST BECOME<br>HESE NOTES, IN THEIR ENTIRETY.            | FAMILIAR WITH, REFER TO AND FULLY COMPLY WITH   |
| 7.1227 12000213<br>2. 4318 PG. 601 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0   | 0.0 0.0 0.0 0  | 0 0.0 0.0                                       | 0.0 0.0                           | 00 0.0 0.0                              | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | 0.0 2           |        | 2. TH<br>RE<br>NO | HE ELECTRICAL CONTRACTOR MUST CON<br>EQUIREMENTS INDICATED IN THIS LIGHTIN<br>DTES. GRADING AND UTILITY NOTES. SITE | IPLY WITH ALL APPLICABLE CONTRACTOR  NG PLAN, INCLUDING BUT NOT LIMITED TO GENERAL  ESAFETY, AND ALL APPLICABLE AGENCY AND                        |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | 0.0 0.0 0.0 0.0  | 0.0 0.0   | 0.0 0.0<br>0.0 †0.0               | 0.0 0.0 0.0<br>0.0 0.0 0.0              | b.0     b.0 <td>0.0 S WAY</td> <td>FIC)</td> <td>GC<br/>ILL</td> <td>OVERNMENTAL REGULATIONS. THE LIGHT LUMINATION LEVELS CALCULATED USING</td> <td>ING PLAN DEPICTS PROPOSED, SUSTAINED DATA PROVIDED BY THE NOTED MANUFACTURER(S). VELS AND DEPECTMANCE OF LUMINAIDES MAY WARY</td>   | 0.0 S WAY       | FIC)   | GC<br>ILL         | OVERNMENTAL REGULATIONS. THE LIGHT LUMINATION LEVELS CALCULATED USING   | ING PLAN DEPICTS PROPOSED, SUSTAINED DATA PROVIDED BY THE NOTED MANUFACTURER(S). VELS AND DEPECTMANCE OF LUMINAIDES MAY WARY                      |
| BLOCK 230 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0  |  | 0.0 0.0 0.0                                     | 0.0 0.0                           | 0.0 0.0 0.0                             | 0.0     0.0 <td>p.0 VGH7.0</td> <td>7774</td> <td>TC<br/>SE</td> <td>O VARIATIONS IN WEATHER, ELECTRICAL<br/>ERVICE LIFE OF EQUIPMENT AND LUMINAL</td> <td>VOLTAGE, TOLERANCE IN LAMPS, MAINTENANCE, THE<br/>RES AND OTHER RELATED VARIABLE FIELD CONDITION</td>  | p.0 VGH7.0      | 7774   | TC<br>SE          | O VARIATIONS IN WEATHER, ELECTRICAL<br>ERVICE LIFE OF EQUIPMENT AND LUMINAL   | VOLTAGE, TOLERANCE IN LAMPS, MAINTENANCE, THE<br>RES AND OTHER RELATED VARIABLE FIELD CONDITION   |
| N/F LANDS OF $0.0$ $0$                                       | 5.7         0.0 <td>to 0.0 0.0</td> <td><b>b.</b>0 <b>b.</b>0</td> <td>ō.0 ō.0 ō.0</td> <td>b.0     b.0     b.0</td> <td>WIDE H</td> <td>Z-M-2)</td> <td>H(<br/>LE</td> <td>ORIZONTAL GEOMETRIC PLANE AT GROUP<br/>EVELS ARE SHOWN IN FOOTCANDLES (FC</td> <td></td> | to 0.0 0.0                                      | <b>b.</b> 0 <b>b.</b> 0           | ō.0 ō.0 ō.0                             | b.0   | WIDE H          | Z-M-2) | H(<br>LE          | ORIZONTAL GEOMETRIC PLANE AT GROUP<br>EVELS ARE SHOWN IN FOOTCANDLES (FC  |   |
| MEKALA PROPERTIES LLC  O BK. 19156 PG. 234 0.0 0.0 0.1 0.2 2.1 3.4 4.4 4.4 4.3 4.3 4.3 4.4 3.1 52.6 2.2 2.6 2.4 4.0 4.5 4.0 4.3 4.4 4.3 5.6 5.2 2.6 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0  |  | 1200  | 0.0                               |   | 5.0     5.0 <td>0.0</td> <td></td> <td>SY</td> <td>YSTEM, CONDUITS, WIRING, CONTROLS, A</td> <td>/ THE LOCATIONS AND TYPE OF LUMINAIRES. POWER<br/>.ND OTHER ELECTRICAL COMPONENTS ARE SOLELY TH<br/>D/OR ELECTRICAL CONTRACTOR'S RESPONSIBILITY, AS</td>   | 0.0             |        | SY                | YSTEM, CONDUITS, WIRING, CONTROLS, A  | / THE LOCATIONS AND TYPE OF LUMINAIRES. POWER<br>.ND OTHER ELECTRICAL COMPONENTS ARE SOLELY TH<br>D/OR ELECTRICAL CONTRACTOR'S RESPONSIBILITY, AS |
| 0.0 0.0 0.0 0.1 0.7 2.7 3.9 4.9 4.3 0.3 1 3.0 3.3 3.8 4.3 6.9 8.1 <b>X GADING ZONE</b> 7.8 7.8 4.3 4.0 3.7 3.3 3.2 3.1 WETLANDS 2.2 0.0 0.0 0.0 0.1 0.8 4.1 3.8 4.3 2.7 1.3 WETLANDS 3.5 3.1 W-1 W-1 W-1 4.3 2.5 1.6 1.4 1.6 1.7 1.8   |  |   |                                   | .3                                      | b.0   |                 |        | W                 | ITH THE PROJECT ARCHITECT AND/OR EL   | ACT DOCUMENTS. THE CONTRACTOR MUST COORDINA<br>ECTRICAL ENGINEER REGARDING ANY AND ALL POWE<br>BY TO MEET THE DESIGN INTENT. THESE ITEMS MUST B   |
| 0.0 0.0 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0  |  |   |                                   |   | 24 29 29 4.5 27 2.2 2.4 2.2 2.9 4.7 4.1 4.0 0.7 0.1 0.0   | ₹0.0            |        | RE                | ESPONSIBLE FOR THE INSTALLATION OF L  | TE AND LOCAL REGULATIONS. CONTRACTOR IS LIGHTING FIXTURES AND APPURTENANCES IN RIC CODE (NEC) AND ALL APPLICABLE BUILDING AND                     |
| 5.0 5.0 5.0 5.0 5.2 3.5 1.1.9 1.3 1.3 5.0 • 6.7 PROPOSED  • 7.3 3.3 3.1 2.9 3.6 4.7 5.7 6 56.7   |  |   |                                   |   | 6"\$.8 \$.4 6 \$.6 \$4.8 6\$.6 \$4.8 \$3.4 6\$.0 \$3.5 \$2.9 \$3.3 \$4.6 \$5.0 \$3.8 \$2.8 \$2.3 \$1.1 \$0.2 \$0.1  | 0.0             |        | LC<br>5. TH       | OCAL ELECTRICAL CODES.<br>HE ELECTRICAL CONTRACTOR MUST BRIN  | IG IMMEDIATELY, IN WRITING, ANY LIGHT LOCATIONS  OR OTHER STRUCTURE(S) TO THE PROFESSIONAL O  |
|  | 7  | 111   |                                   |   | 12.2 9.0 6.2 52 4.6 4.3 3.8 3.7 4.0 3.6 3.8 4.1 4.1 3.9 3.2 27 1.3 0.4 0.1  | 1               |        | RE<br>6. TH       | ECORD'S ATTENTION, PRIOR TO THE STAF<br>HE ELECTRICAL CONTRACTOR IS RESPON  | RT OF CONSTRUCTION.<br>ISIBLE TO ENSURE THAT ALL LIGHTING IS INSTALLED I  |
| (11 INDOOR SEATS)  (8 OUTDOOR SEATS)   |  |   |                                   |   | 18.4     11.2     6     4.3     3.3     3.0     3.1     3.4     2.9     2.8     2.7     2.6     2.5     2.0     1.2     0.5     0.2       23.5     13.0     6     2.6     1.4     1.1     1.2     1.2     1.2     1.2     0.5     0.2   |                 |        | OF                | PTICS ARE INSTALLED AS INDICATED ON   | TION, ORIENTATION, SHIELDING, AND/OR ROTATED. THE PLAN IN ORDER TO ACHIEVE THE LIGHTING LEVE. AND FOUNDATIONS ARE NOT TO BE REUSED.               |
| 0.0 0.0 0.0 0.0 0.0 0.4 2.0 6.6 6.6 5.4 3.1 1.3 4.7 4.7 7.9 1.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3  | <u> </u>   | 4   | •                                 |   | 24.7 14.6 6 7 2.4 0.9 0.5 0.4 0.3 0.3 0.3 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1   |                 |        | FC                | OR ALL MAINTENANCE, SERVICING, REPAI  | PLETED PROJECT, THE OWNER SHALL BE RESPONSI<br>R AND INSPECTION OF THE LIGHTING SYSTEM AND A<br>MS. THE LUMINAIRES. LAMPS AND LENSES MUST BE      |
| 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  | A  |   | 4                                 |   | 26.6 15.4 7 0 2.4 0.9 0.4 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1   |                 |        | SH                | HOULD INCLUDE, BUT IS NOT LIMITED TO,   | NSURE THAT THEY FUNCTION PROPERLY. THIS WORK<br>VISUAL OBSERVATION, CLEANING OF LENSES, AND<br>IANUFACTURER. FAILURE TO FOLLOW THE ABOVE ST       |
| 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  | - 1  | BUFFER  | 1 A                               | الم به مرحکات                           |   |                 |        | C(<br>DE          | OULD RESULT IN IMPROPER LIGHT DISTRI<br>ESIGN.  | BUTION AND FAILURE TO COMPLY WITH THE APPROV  |
|  | 1.4.   | 4 - 1 - 4 - 1                                   | 4                                 | 1                                       | 22.5 13.1 66 2.8 0.7 10.3 0.2 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0   |                 |        | ON<br>ED          | N DATA PROVIDED BY THE MANUFACTURI<br>DITION). THE LIGHT LEVELS DEPICTED ON   | IN THE LUMINAIRE SCHEDULE ON THIS PLAN ARE BA:<br>ER FOLLOWING IES LM-80-21 TESTING (OR MOST REC<br>I THIS PLAN WERE CALCULATED BASED ON THE LLF  |
|  | ( ) (  | 1 1 1   | 4 . 4                             | ☐ C-1 (1¥1                              | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 0.0             |        | 9. PF             | tion to contented from, the continue  | OR SHALL PROVIDE SUBMITTALS TO BOHLER FOR EQUESTS MUST BE ACCOMPANIED BY A HORIZONTAL   |
|  | ·   ° ° ° , } . [ . 4  |   | - a - 1 - 1                       |   | 6.2 6.0 5.9 4.5 0.5 0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0   | 0.0             |        | PH<br>DE          | HOTOMETRIC STUDY DEMONSTRATING TH   | HAT THE LUMINAIRE(S) IN QUESTION WILL MEET THE<br>ON REQUESTS WITHOUT A PHOTOMETRIC STUDY WI  |
|  | T  |   | . /                               |   | 4.6 4.8 6 1 16 0.4 0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0  |                 |        | 10.LIC<br>LIC     | GHT POLE FOUNDATIONS ARE SHOWN ON GHTING CALCULATIONS, UNLESS OTHER   | I THE PLAN IN THE INTENDED LOCATION BASED ON TI<br>VISE NOTED. LIGHT SYMBOLS ARE SHOWN LARGER T   |
| 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0  | 2.6 22 1.5   | 2.0 2.5 3.7                                     | 5.6 5.3                           | 4.4 2.7 29                              | 3.9 4.1 49 3.8 6.3 b.1 6.1 6.1 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0  | 0.0             |        | 11. AL<br>OF      | PERATION IN ACCORDANCE WITH RESOLU  | 10%) PERCENT DURING RESTRICTED HOURS OF JTION ADOPTED BY TOWNSHIP OF NORTH BRUNSWIC   |
|  | 0.4 0.3 0.3 0  | 0.3 0.4 0.4                                     | 0.6 0.7                           | 0.4 0.5 D 1.3                           | 3.0 3.3 3 2.0 0.1 0.1 ×0.1 0.0 × 0.0 0.0 × 0.0 0.0 0.0 0.0 0.0 0.0  | 0 0.0 W-Qd      | W-Qd - | ZO                | ONING BOARD OF ADJUSTMENT, DATED 1  | 0/18/2022.  |
| OH OH OH OH OH   | 011  |   |                                   |   | 1.6 1.6 W 1.3 D.8 D.0   | 8               | 0H     | OH OH             | GHI <sup>d</sup>  |   |
| 5.0       5  | 0.1     0.1     "0.0"       0.1     0.1     0.1  | †0.1 †0.1 †0.1                                  | 0.1 0.1<br>0.1 0.1                | 0.1 0.2 0.4                             | 0.6     0.5     0.3     0.2     0.0 <td>77 Q0</td> <td>,</td> <td></td> <td></td> <td>LIGHTING TO BE DIMM</td>  | 77 Q0           | ,      |                   |   | LIGHTING TO BE DIMM   |
| 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2  | † 0.0 † 0.0 † .0 † .0  | <del>0</del> .0 <del>0</del> .1 <del>0</del> .1 | <sup>†</sup> 0.1 <sup>†</sup> 0.1 | 0.1 0.1 0.2                             | <u></u>   | 0.0             |        |                   |   | TEN (10%) PERCENT WIT<br>MOTION ACTIVATION  |
| 5.0     5.0 <td></td> <td>0.0 0.0 0.0<br/>0.0 0.0</td> <td><u></u></td> <td>0.1 0.1 0.1</td> <td>0.1     0.1     0.0<td>0.0</td><td></td><td></td><td></td><td>RING RESTRICTED HOUR OF OPERATION</td></td> |  | 0.0 0.0 0.0<br>0.0 0.0                          | <u></u>                           | 0.1 0.1 0.1                             | 0.1     0.1     0.0 <td>0.0</td> <td></td> <td></td> <td></td> <td>RING RESTRICTED HOUR OF OPERATION</td>   | 0.0             |        |                   |   | RING RESTRICTED HOUR OF OPERATION   |
|  | <b>1</b>   |   |                                   |   |   | _               |        | 7                 |   |   |
|  |  |   |                                   |   | I.J.S.H. ROUTE 130  |                 |        |                   |   | IS PLAN TO BE UTILIZED  |
|  |  |   |                                   | /1                                      | (PUBLIC RIGHT OF WAY- WIDTH UNKNOWN)  |                 |        |                   |   | OR LIGHTING PURPOSES ONLY   |
|  |  |   |                                   |   | (DIVIDED ASPHALT HIGHWAY)<br>(A.K.A. GEORGES ROAD)  |                 |        |                   | <u></u>   | 30 15 7.5 0 30  |
|  |  |   |                                   |   |   |                 |        |                   |   | SCALE: 1" = 30'   |

**REVISIONS** 

| REV | DATE | COMMENT | DRAV |
|-----|------|---------|------|
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**ISSUED FOR MUNICIPAL &** 

YOU MUST CALL 811 BEFORE ANY EXCAVATION WHETHER IT'S ON PRIVATE OR PUBLIC LAND. 1-800-272-1000 www.nj1-call.org

**AGENCY REVIEW & APPROVAL** 

P-CIVL-LLGT

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE. PROJECT No.: NJA240262.00-0B DRAWN BY: TDW/JAR CHECKED BY: DATE: CAD I.D.:

PROJECT:

PRELIMINARY & FINAL SITE PLANS

> — FOR —— **AMERICAN**

PROPERTIES AT NORTH **BRUNSWICK, LLC** 

PROPOSED QUICKCHEK FOOD

STORE WITH FUEL SALES

BLK: 230 | LOT:15 1661-1689 ROUTE 130

TOWNSHIP OF NORTH BRUNSWICK

MIDDLESEX COUNTY, NEW JERSEY

30 INDEPENDENCE BLVD., SUITE 200 **WARREN, NJ 07059** Phone: (908) 668-8300

Fax: (908) 754-4401 www.BohlerEngineering.com NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH000122

T. LAM

PROFESSIONAL ENGINEER

NEW JERSEY LICENSE No. 47863 NEW YORK LICENSE No. 092942 CONNECTICUT LICENSE No. 30024 PENNSYLVANIA LICENSE No. 76746

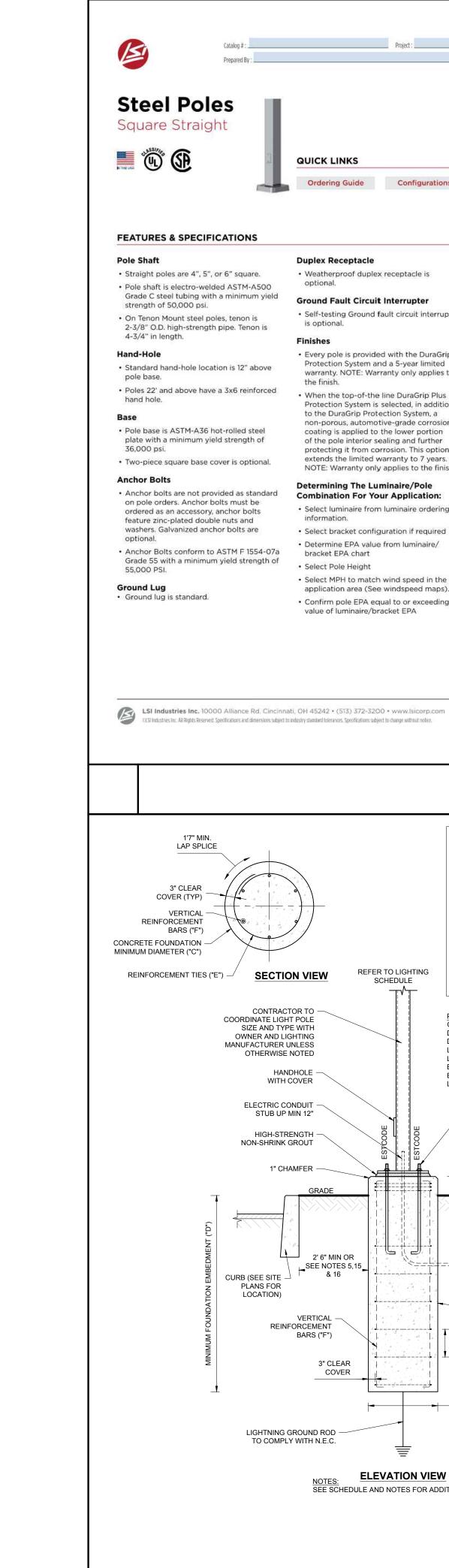
SHEET TITLE:

SCALE: 1" = 30'

**LIGHTING** PLAN

SHEET NUMBER:

L-301



Have questions? (all us at (800) 436-7800 ORDERING GUIDE Back to Quick Links TYPICAL ORDER EXAMPLE: 4SQ B3 S11G 24 S PLP DGP Height 2 Mounting Configuration | Pole Finish Mounting Method 4SQ - 4" x 4" Square Straight Pole (New Build) | Bolt-On Mount<sup>1</sup> - See pole selection guide for **\$116** – 11 Ga. Steel GA – Galvanized Anchor Bolts 550 - 5" x 5" Square Straight Pole (New Build) patterns and fixture matches **BLK** - Black SF – Single Flood<sup>3</sup> (4SQ/4SQU and D180 - Double 65Q - 6" x 6" Square Straight Pole (New Build) B5 - 5" Traditional Drilling Pattern PLP - Platinum Plus DF - Double Flood 3 5SQ/5SQU Only) D90 – Double 5SQU - 5" x 5" Square Straight Pole (Retrofit) | B3 - 3" Reduced Pattern **S076** - 07 Ga. Steel WHT – White DGP – DuraGrip' Plus 6SQU - 6" x 6" Square Straight Pole (Retrofit) | B2 - 2" Low Profile Drilling Pattern SVG - Satin Verde Green LAB - Less Anchor Bolts B2R - Raised 2" Low Profile Drilling Pattern (LAL4 Ordering Guide Configurations Dimensions EPA GPT – Graphite CRXX - Conduit Raceway<sup>4</sup> TN120 - Triple MSV - Metallic Silver USA - BABAA Compliant<sup>5</sup> BZA – Alternate Bronze GMG - Gun Metal Gray Tenon Mount - See pole selection guide for tenon and

**Ground Fault Circuit Interrupter**  Self-testing Ground fault circuit interrupter is optional.

· Every pole is provided with the DuraGrip

· Weatherproof duplex receptacle is

QUICK LINKS

Duplex Receptacle

optional.

Protection System and a 5-year limited warranty. NOTE: Warranty only applies to

 When the top-of-the line DuraGrip Plus Protection System is selected, in addition to the DuraGrip Protection System, a non-porous, automotive-grade corrosion coating is applied to the lower portion of the pole interior sealing and further protecting it from corrosion. This option extends the limited warranty to 7 years. NOTE: Warranty only applies to the finish.

Determining The Luminaire/Pole Combination For Your Application: · Select luminaire from luminaire ordering

information. Select bracket configuration if required · Determine EPA value from luminaire/

bracket EPA chart · Select Pole Height

· Select MPH to match wind speed in the application area (See windspeed maps).

> · Confirm pole EPA equal to or exceeding value of luminaire/bracket EPA

> > REFER TO LIGHTING

SCHEDULE

2' 6" MIN OR

SEE NOTES 5,15

& 16

3" CLEAR

COVER

**ELEVATION VIEW** NOTES:
SEE SCHEDULE AND NOTES FOR ADDITIONAL INFORMATION

VERTICAL -

BARS ("F")

 Consult factory for special wind load requirements and banner brackets.

Pole Vibration Damper

· A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common. · Non-tapered poles and lightly loaded

poles are more susceptible to destructive

vibration if a damper is not installed.

· LSI poles come standard with a 1 year materials and workmanship warranty. Refer to https://www.lsicorp.com/ resources/terms-conditions-warranty/ for more information.

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LIGHT POLE FOUNDATION SCHEDULE

MAXIMUM HEIGHT ABOVE GRADE (INCL. BASE)"A" \*

ASSUMED AVERAGE POLE DIAMETER "B"

MINIMUM FOUNDATION DIAMETER "C"

VERTICAL HOOKED REINFORCEMENT "F"

CONTRACTOR TO ADJUST LENGTH OF POLE

DIFFERENT LOCATIONS, AS NECESSARY TO SET

LUMINARIES AT MOUNTING HEIGHT INDICATED IN

ELEVATION ADJACENT TO POLE FOUNDATION TO

LIGHTING SCHEDULE. MOUNTING HEIGHT IS TO

DEPENDANT ON FOUNDATION HEIGHT IN

BE MEASURED FROM GROUND SURFACE

ANCHOR BOLTS AND

BASE PLATE BY LIGHTING MANUFACTURER

2" TYPICAL (36" FOR AREAS NOT PROTECTED BY CURBS)

REINFORCEMENT

**FOUNDATION** 

DIAMETER ("C")

TIES SPACING ("E")

= ADD 3 TIES, 4" C-C, AT TOP OF THE FOUNDATION

\* = THIS MAY NOT BE ACTUAL MOUNTING HEIGHT, SEE LIGHTING

MINIMUM FOUNDATION DEPTH "D"

REINFORCING TIES "E" \*

SCHEDULE

# OF FIXTURES

SPEC.1070.B.0622

UL Listed

 BAA/TAA Compliant BABAA Compliant \*If Specified

122559CLR

122563CLR

131252CLR

122566CLR

122567CLR

725841

Need more information?

fixture/bracket matches

1 - No Mounting Holes<sup>1</sup>

Have additional questions?
Call us at (800) 436-7800

ANCHOR BOLT KIT ORDERING INFORMATION AB KIT 122584 4SQ S11G/S07G Anchor Bolts (Steel Plated) AB KIT 122609 4SQ S11G/S07G Anchor Bolts (Galvanized) AB KIT 1225850 5SQ S11G Anchor Bolts (Steel Plated) AB KIT 122610 5SQ S11G Anchor Bolts (Galvanized) AB KIT 122586 5SQ SQ7G Anchor Bolts (Steel Plated) **AB KIT 122611** 5SQ SO7G Anchor Bolts (Galvanized) 6SQ SO7G Anchor Bolts (Galvanized) MH5 - mounting Hole Plugs for use with 5" traditional drill pattern (3 set of 3 plugs)

(Standard Tenon

Mounting Method

size is 2-3/8" (Blank) - Use with I for

1 - See Area Light Brackets - 3" Reduced Drill Pattern and Area Light Brackets - 5" Traditional Drill Pattern Spec Sheets. 2 - Pole heights will have +/- 1/2" tolerance. 3 - See Flood Lighting Brackets section for choice of FBO bracks

**Steel Poles Square Straight** 

lick here for our glossary

ACCESSORY ORDERING INFORMATION

4BC – 4" Square Base Cover

5BC – 5" Square Base Cover

6BC - 6" Square Base Cover

5BC - 5' Square Universal Base Cover

6BC - 6' Square Universal Base Cover

ER2 – Weatherproof Duplex Receptacle

GFI – Ground Fault Circuit Interrupter

4 - CR selection must indicate required height and side of pole mounting location. Mounting template required at time of order. 5 - USA only applies to 4SQ poles up to 26' and 5SQ/5SQU poles up to 30".

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MH3 - mounting Hole Plugs for use with 3" reduced drill pattern (3 set of 3 plugs)

MH2 - Mounting Hole Plugs for use with 2" reduced drill pattern (3 sets of 3 plugs)

Vibration Damper - 4" Square Pole (bolt-on mount only)

Vibration Damper - 5" Square Pole (bolt-on mount only)

Vibration Damper - 6" Square Pole (bolt-on mount only)

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SPEC.1070,B.0622

POLE **SPECIFICATION** 

18'-6"

4"

QUAD

6'-0"

#3 TIES

@12"C-C

(6) #5 BARS

EQUALLY SPACED

FOUNDATION

STALLS

- PARKING

**PLAN VIEW AT PARKING STALLS** 

CURB -

FOR PRECAST FOUNDATIONS, USE

SUITABLE BACKFILL MATERIALS

D 698 OPTIMUM DRY PROCTOR

AUGERED CAST-IN-PLACE OR

PRECAST CONCRETE PIER

AIR-ENTRAINED CONCRETE

FOUNDATION, 4000 PSI

DENSITY IN 6" LOOSE LIFTS

TO BE COMPACTED TO 98% ASTM

## LIGHT POLE FOUNDATION NOTES

1. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS, COORDINATE WITH ALL CONTRACT DRAWINGS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR MUST ENSURE NO CONFLICTS ARISE BETWEEN LIGHT POLE FOUNDATIONS, STRUCTURES, AND UTILITIES. IF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN PLANS ARISE, THE ENGINEER MUST BE NOTIFIED

2. THE CONTRACTOR IS TO HAVE A GEOTECHNICAL ENGINEER, LICENSED IN THE PROJECT'S STATE, ON SITE TO INSPECT FILL, MONITOR FILL COMPACTION AND TO VERIFY SUBGRADE ALLOWABLE BEARING CAPACITY AND SOIL DESIGN CRITERIA PRIOR TO CONSTRUCTION IN ACCORDANCE TO THE DESIGN ASSUMPTIONS STATED UNSUITABLE MATERIALS FOUND MUST BE REMOVED OR BE REMEDIED AS PER THE DIRECTION OF THE ON SITE

3. IF CONDITIONS IN THE FIELD ARE DIFFERENT THAN THOSE INDICATED, THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER IN WRITING.

4. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT APPROPRIATE SELECT BACKFILL IS USED, AND THOROUGHLY COMPACTED TO 98% MAX. DENSITY ASTM D 698.

5. STRUCTURAL CONCRETE AND CONCRETING PRACTICES SHALL CONFORM WITH ACI-318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE." DETAILS ARE TO BE IN ACCORDANCE WITH ACI-315. "MANUAL OF STANDARD PRACTICE: DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." FORM WORK SHALL CONFORM ACI-347 "GUIDE TO FORM WORK FOR CONCRETE", UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS.

6. CONCRETE MUST BE NORMAL WEIGHT STONE AGGREGATE WITH THE STATED MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. HISTORICAL DATA OR LABORATORY TESTS FOR THE PRELIMINARY DESIGN MIX IS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION. THE WATER-CEMENT RATIO FOR THE PROPOSED MIX DESIGN MUST ACHIEVE AN AVERAGE 28-DAY STRENGTH OF 1,200 PSI GREATER THAN THE REQUIRED STRENGTH ON LABORATORY TEST RESULTS

7. CONCRETE IS TO HAVE A SLUMP NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".

8. EXPOSED CONCRETE IS TO BE AIR ENTRAINED, 6% (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.

9. CONCRETE TO BE CONSOLIDATED IN PLACE USING AN INTERNAL VIBRATOR.

10. REINFORCING STEEL BARS SHALL BILLET STEEL ASTM A615, GRADE 60, ALL REINFORCEMENT TO BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS TO BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES TO BE PLASTIC TIPPED. ALL ACCESSORIES MUST BE GALVANIZED.

11. ALL SPLICES OF REINFORCING BARS NOT INDICATED ARE TO BE LTS AS PER THE REINFORCING SPLICE SCHEDULE OR 40 BAR DIAMETERS. DISCONTINUOUS ENDS OF CONTINUOUS BARS ARE TO BE STANDARD HOOKS.

13. CONCRETE MUST ATTAIN 80% OF THE DESIGN STRENGTH OR CURE FOR A MINIMUM OF 7-DAYS PRIOR TO THE INSTALLATION OF THE LIGHT POLES OR ALL LIGHT POLES ARE TO BE SUITABLY BRACED AGAINST WIND

12. IF CAVING OF DRILLED HOLES ARE ENCOUNTERED, CONTRACTOR SHALL PROVIDE BENTONITE SLURRY IN

LOADS DURING THE ABOVE MENTIONED TIMEFRAME.

14. ALL ELECTRICAL COMPONENTS TO COMPLY WITH N.E.C.

PERMANENT CASINGS FOR DRILLED CONCRETE PIER FOUNDATIONS.

15. WHEN 2'-6" CLEARANCE CAN NOT BE PROVIDED, CONCRETE FOUNDATION MUST BE EXTENDED TO 36" ABOVE SURFACE, OR PROVIDE BOLLARD PROTECTION FOR LIGHT POLE.

16. VERIFY WITH LOCATIONS SHOWN ON LIGHTING PLAN

17. CONTRACTOR IS TO RECORD ON A CLEAN COPY OF THE LIGHTING PLANS. THE LOCATION OF CONDUIT SUPPLYING POWER TO LIGHTS. A COMPLETED COPY OF THIS RECORD PLAN IS TO BE PROVIDED TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.

18. UPON ACCEPTANCE OF THE COMPLETED WORK BY THE OWNER, THE OWNER IS RESPONSIBLE FOR APPROPRIATE MAINTENANCE OF THE LIGHTING SYSTEM

### LIGHT POLE FOUNDATION **DESIGN CRITERIA**

• MINIMUM REQUIRED ALLOWABLE BEARING PRESSURE = 1,000 PSF -ASSUMED (TO BE VERIFIED IN FIELD)

• SOIL FRICTION ANGLE = 30 DEG - ASSUMED (TO BE VERIFIED IN FIELD) SOIL DRY UNIT WEIGHT = 120 PCF - ASSUMED (TO BE VERIFIED IN FIELD)

• WIND PRESSURE = 30 PSF

LIGHT POLE **FOUNDATION** 

(NJ-I010101 - 01/2025

**REVISIONS** COMMENT

REV DATE



YOU MUST CALL 811 BEFORE ANY EXCAVATION WHETHER IT'S ON PRIVATE OR PUBLIC LAND.

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PROJECT No.: NJA240262.00-0E DRAWN BY: TDW/JAF CHECKED BY: DATE: CAD I.D.: 06/10/2025 P-CIVL-LLG

PROJECT:

PRELIMINARY & FINAL SITE PLANS

FOR — **AMERICAN** PROPERTIES AT NORTH

BRUNSWICK, LLC

PROPOSED QUICKCHEK FOOD

STORE WITH FUEL SALES BLK: 230 | LOT:15

1661-1689 ROUTE 130 TOWNSHIP OF NORTH BRUNSWICK MIDDLESEX COUNTY, NEW JERSEY

30 INDEPENDENCE BLVD., SUITE 200 **WARREN, NJ 07059** Phone: (908) 668-8300 (908) 754-4401 www.BohlerEngineering.com

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T. LAM

PROFESSIONAL ENGINEER

NEW JERSEY LICENSE No. 47863 NEW YORK LICENSE No. 092942 CONNECTICUT LICENSE No. 30024 PENNSYLVANIA LICENSE No. 76746

SHEET TITLE:

LIGHTING **NOTES AND DETAILS**