# PROPOSED SITE PLAN DOCUMENTS

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



**PROPOSED** 

RESTAURANT
W/ DRIVE-THRU

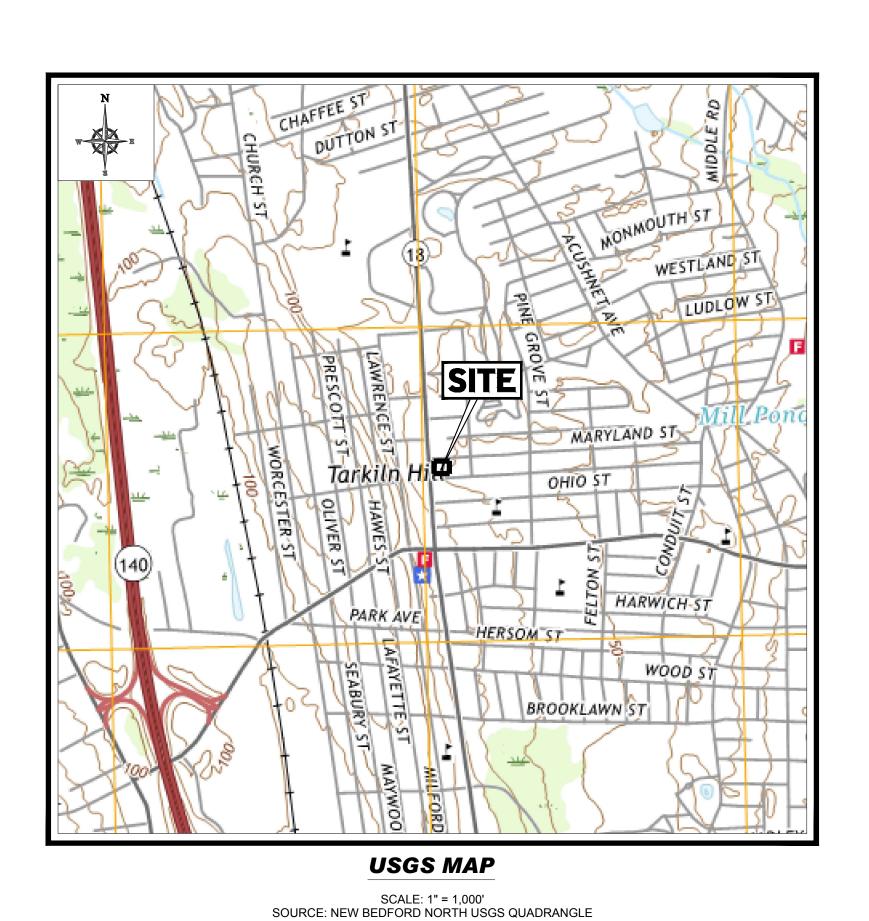
LOCATION OF SITE

888 ASHLEY BOULEVARD, CITY OF NEW BEDFORD

BRISTOL COUNTY, MASSACHUSETTS

MAP #127C, LOT #134

BK.4155, PG.343





SCALE: 1" = 100' SOURCE: GOOGLE AERIAL

PREPARED BY



| ZONING DISTRICT                                  | MIXED USE BUSINESS DISTRICT (MI   | (V) - VARIANCE REQUESTED (W) - WAIVER REQUESTED (E) - EXIST. NON-CONFORMANCE              |   |  |
|--|---|---|---|--|
| OVERLAY DISTRICT                                 | NONE NOTED  |   | (L) - EXIST. NON-GONI ONWANGE   |  |
| REQUIRED PERMIT                                  | "RESTAURANT, FAST-FOOD" USE REBOARD OF APPEALS  | EQUIRES SPECIAL PERMIT FROM   |   |  |
| ZONE CRITERIA                                    | REQUIRED  | EXISTING  | PROPOSED  |  |
| MIN. LOT AREA                                    | N/S   | 20,800 SF   | NO CHANGE   |  |
| MIN. LOT WIDTH                                   | 0 FT  | 160.0 FT  | NO CHANGE   |  |
| MAX. BLDG COVERAGE                               | 30%   | 25.5%   | 9.6%  |  |
| MIN. FRONT SETBACK                               | 0 FT  | 44.8 FT   | 14.8 FT (BUILDING)  |  |
| MIN. SIDE SETBACK                                | 10 FT (1)   | 40.8 FT   | 53.8 FT (BUILDING)  |  |
| MIN. REAR SETBACK                                | 10 FT   | 14.5 FT   | 50.8 FT (BUILDING)  |  |
| MAX. BUILDING HEIGHT                             | 100 FT  | < 100 FT  | 22'-11"   |  |
| MAX. IMPER. COVERAGE                             | 100%  | 100%  | 83.9%   |  |
| PARKING SPACES                                   | 25  | 33  | 28  |  |
| ACCESS. PARKING SPACES                           | 2   | 2   | 2   |  |
| PARKING STALL CRITERIA<br>STANDARD: 9 FT x 20 FT | REQUIRED PARKING: 1 SPACE PER E   | REQUIRED PARKING: 1 SPACE PER EMPLOYEE PER SHIFT (MIN. 5) + 1 SPAC                        |   |  |
| 5 FT x 18 FT AISLE (MIN.)<br>VAN:                | 1-25 SPACES = 1 MIN. ACCESSIE<br>26-50 SPACES = 2 MIN. ACCESSIE<br>51-75 SPACES = 3 MIN. ACCESSIE<br>101-150 SPACES = 5 MIN. ACCESSIE<br>151-200 SPACES = 6 MIN. ACCESSIE<br>201-300 SPACES = 7 MIN. ACCESSIE | BLE SPACES 501-1,000 SPACES BLE SPACES 1001+ SPACES BLE SPACES BLE SPACES 1 ACCESSIBLE VA | = MIN. 20 + 1 FOR EACH 100<br>SPACES OVER 1,000<br>N SPACE PER 6 STANDARD |  |

(1) - 10 FT SIDE YARD SETBACK IS REQUIRED IF ADJACENT LOT IS IN A RESIDENTIAL DISTRICT OR IS USED FOR RESIDENTIAL PURPOSES

(2) - A 5 FT SCREENED LANDSCAPE AREA IS REQUIRED ALONG PROPERTY LINES SEPARATING RESIDENTIAL USES OR DISTRICTS

#### SITE INFORMATION

- APPLICANT:
   YEARLY GRIND II REALTY, LLC
   3021 ACUSHNET AVENUE
   NEW BEDFORD, MA 02745
- OWNER:
   ZHANG ZI Q
   C/O NEW YORK BUFFET INC
   1015 PECAN LAKE CT
   STILLWATER, OK 74074
- 3. PARCEL:
  MAP #127C, LOT #134
  888 ASHLEY BOULEVARD
  NEW BEDFORD
  BRISTOL COUNTY, MA

# **DRAWING SHEET INDEX**

| SHEET TITLE                                    | SHEET<br>NUMBER | LATEST<br>REVISION |
|--|-----------------|--------------------|
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| GENERAL NOTES SHEET                            | C-102           |                    |
| DEMOLITION PLAN                                | C-201           |                    |
| SITE LAYOUT PLAN                               | C-301           |                    |
| TRUCK TURN PLAN                                | C-302           |                    |
| GRADING AND DRAINAGE PLAN                      | C-401           |                    |
| UTILITY PLAN                                   | C-501           |                    |
| EROSION AND SEDIMENT CONTROL PLAN              | C-601           |                    |
| EROSION AND SEDIMENT CONTROL NOTES AND DETAILS | C-602           |                    |
| LANDSCAPE PLAN                                 | C-701           |                    |
| LANDSCAPE NOTES AND DETAILS                    | C-702           |                    |
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| DETAIL SHEET                                   | C-902           |                    |
| DETAIL SHEET                                   | C-903           |                    |
| DETAIL SHEET                                   | C-904           |                    |
| ALTA / NSPS LAND TITLE SURVEY (BY OTHERS)      | 1 SHEET         |                    |
|  |                 |                    |
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SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES
TRANSPORTATION SERVICES

REVISIONS

| ٠, | REV | DATE     | COMMENT            | DRAWN BY   |
|----|-----|----------|--------------------|------------|
|    | KEV | DAIE     | COMMENT            | CHECKED BY |
|    | 1   | 02/10/20 | ZBA SPECIAL PERMIT | DJO        |
|    |     | 02/10/20 | & SITE PLAN REVIEW | JAB        |
|    |     |          |                    |            |
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PERMIT SET

REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: W181086
DRAWN BY: DJO
CHECKED BY: JAB

W181086-CVL-

PROJECT:

CAD I.D.:

PROPOSED SITE

PLAN DOCUMENTS

JOSON BRAND

· [eatdrinktl

DEVELOPMENT

888 ASHLEY BOULEVARD
BRISTOL COUNTY
NEW BEDFORD, MASSACHUSETTS
MAP #127C, LOT #134

BOHLER/

BK.4155, PG.343

352 TURNPIKE ROAD SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900 Fax: (508) 480-9080 www.BohlerEngineering.com

J.A. BERNARDINO

PROFESSIONAL ENGINEER

MASSACHUSETTS LICENSE No. 41717
RHODE ISLAND LICENSE No. 9114
CONNECTICUT LICENSE No. 27475

ET TITI E.

COVER SHEET

SHEET NUMBER:

C-101

#### **GENERAL NOTES**

AMBIGUITIES WHICH EXIST

NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES.

CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE REQUIREMENTS.

- THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:
- "ALTA / NSPS LAND TITLE SURVEY". PREPARED BY CONTROL POINT ASSOCIATES. INC., DATED 01/14/2020

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST VERIFY THAT HE/SHE HAS THE LATEST EDITION OF THE DOCUMENTS REFERENCED ABOVE. THIS IS CONTRACTOR'S RESPONSIBILITY

THE PROJECT IS TO BE CONSTRUCTED, AND ANY AND ALL AMENDMENTS TO BOTH WHICH ARE IN EFFECT WHEN THESE PLANS ARE COMPLETED.

- ALL ACCESSIBLE (A/K/A ADA) PARKING SPACES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF 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.) OR THE REQUIREMENTS OF THE JURISDICTION WHERE
- PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES AND CONFIRMED THAT ALL NECESSARY OR REQUIRED PERMITS HAVE BEEN OBTAINED. CONTRACTOR MUST HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.
- THE OWNER/CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE REQUIREMENTS, RULES, REGULATIONS, STATUTORY REQUIREMENTS, CODES, LAWS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES WITH JURISDICTION OVER THIS PROJECT.
- 3. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, DISCREPANCY OR AMBIGUITY, THE MORE STRINGENT REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN THE PLANS AND THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MUST NOTIFY THE ENGINEER, IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR
- THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOHLER ENGINEERING BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. 7 CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BOHLER ENGINEERING, IN WRITING, IMMEDIATELY IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.
- . ALL DIMENSIONS SHOWN ON THE PLANS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST NOTIFY ENGINEER IN WRITING IE ANY CONFLICTS DISCREPANCIES OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE REDONE OR REPAIRED DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO CONTRACTOR GIVING ENGINEER WRITTEN NOTIFICATION OF SAME AND ENGINEER, THEREAFTER, PROVIDING CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK
- . CONTRACTOR MUST REFER TO THE ARCHITECTURAL/BUILDING PLANS "OF RECORD" FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.
- 10. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE ENTIRE SITE PLAN AND THE LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR 10.
- I1. DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL GOVERNMENTAL AUTHORITIES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER CONTRACTOR. 12. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION (TO BE

PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT.

3. THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN EITHER FOR AN INITIAL PHASE OF THE PROJECT OR AS PART OF THE FINAL CONDITION. CONTRACTOR IS RESPONSIBLE FOR TAKING ALL APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, UTILITIES, BUILDINGS, AND INFRASTRUCTURE WHICH ARE TO

REMAIN, AND TO PROVIDE A SAFE WORK AREA FOR THIRD PARTIES, PEDESTRIANS AND ANYONE INVOLVED WITH THE PROJECT.

- 14. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME TO INCLUDE, BUT NOT BE LIMITED TO, REDESIGN, RE-SURVEY, RE-PERMITTING AND CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR AND MUST REPLACE 12. ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION AND MUST BEAR ALL COSTS ASSOCIATED WITH SAME. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY MUST RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE CONDITIONS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION, AND IN CONFORMANCE WITH APPLICABLE CODES, LAWS RULES, REGULATIONS, STATUTORY REQUIREMENTS AND STATUTES. CONTRACTOR MUST BEAR ALL COSTS ASSOCIATED WITH SAME. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND TO NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF
- 15. ALL CONCRETE MUST BE AIR ENTRAINED AND HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, 14. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS MUST BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL DETAILS AND/OR GEOTECHNICAL REPORT
- 16. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, 15. DURING THE INSTALLATION OF SANITARY SEWER, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON THESE PLANS, AND FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
- FOR JOB SITE SAFETY, SAME BEING WHOLLY OUTSIDE OF ENGINEER'S SERVICES AS RELATED TO THE PROJECT. THE ENGINEER OF RECORD IS NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES, AT ANY TIME
- 18. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER ENGINEERING, AND ITS 17. 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 INSURED AND TO PROVIDE CONTRACTUAL LIARRITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY ORLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH BOHLER ENGINEERING WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION AND FOR ONE YEAR AFTER THE COMPLETION OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, INDEMNIFY, DEFEND AND HOLD HARMLESS BOHLER ENGINEERING AND EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUB LIURIES CLAIMS ACTIONS PENALTIES EXPENSES PLINITIVE DAMAGES TORT DAMAGES STATLITORY CLAIMS STATLITORY 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 TO THE PROJECT. CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, AT LEAST THIRTY (30) DAYS PRIOR TO ANY TERMINATION, SUSPENSION OR CHANGE OF ITS
- 19. BOHLER ENGINEERING 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 CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS AND/OR 21 TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME HEREUNDER. BOHLER ENGINEERING'S SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM MUST NOT INDICATE THAT BOHLER ENGINEERING HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER ENGINEERING WILL NOT BE 22. STORM DRAINAGE PIPE UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIGH-DENSITY RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION. IN WRITING, BY THE CONTRACTOR. BOHLER ENGINEERING WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS
- 20. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER ENGINEERING. NOR THE PRESENCE OF BOHLER ENGINEERING 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, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES R PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT 25. DOCUMENTS AND COMPLIANCE WITH ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. BOHLER ENGINEERING SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND MUST BE NAMED AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE AS DESCRIBED ABOVE IN NOTE 19 FOR JOB SITE SAFETY.
- 21.IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCLIRRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS. ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND, FURTHER, SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE ENGINEER, TO THE FULLEST EXTENT RMITTED UNDER THE LAW, IN ACCORDANCE WITH PARAGRAPH 19 HEREIN, FOR AND FROM ALL FEES, ATTORNEYS' FEES, DAMAGES, COSTS, JUDGMENTS,
- 22. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM MUST BE INCLUDED IN THE CONTRACTOR'S PRICE
- 23. ALL SIGNING AND PAVEMENT STRIPING MUST CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCALLY APPROVED SUPPLEMENT
- 24. ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER
- 25. OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, IN STRICT 30. LOCATION OF PROPOSED UTILITY POLE RELOCATION IS AT THE SOLE DISCRETION OF UTILITY COMPANY. ACCORDANCE WITH THE APPROVED PLAN(S) AND DESIGN AND, FURTHER ENGINEER IS NOT RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRESERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES AND DESIGN FEATURES AND/OR DESIGN FEATURES AND DESIGN FEATURES A AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE
- 26. ALL DIMENSIONS MUST BE TO FACE OF CURB. EDGE OF PAVEMENT. OR EDGE OF BUILDING. UNLESS NOTED OTHERWISE
- 27. ALL CONSTRUCTION AND MATERIALS MUST COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, ORDINANCES, RULES AND CODES, AND ALL APPLICABLE OSHA REQUIREMENTS.
- 28. CONTRACTOR AND OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS. IF CONTRACTOR AND/OR OWNER FAIL TO DO SO, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A
- 29. CONTRACTOR IS RESPONSIBLE TO MAINTAIN ON-SITE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH EPA REQUIREMENTS FOR SITES WHERE ONE (1) ACRE OR MORE (UNLESS THE LOCAL JURISDICTION REQUIRES FEWER) IS DISTURBED BY CONSTRUCTION ACTIVITIES. CONTRACTOR IS RESPONSIBLE TO FINSURE THAT ALL ACTIVITIES. INCLUDING THOSE OF SUBCONTRACTORS, ARE IN COMPLIANCE WITH THE SWPPP, INCLUDING BUT NOT LIMITED TO LOGGING ACTIVITIES (MINIMUM ONCE PER WEEK AND AFTER RAINFALL EVENTS) AND CORRECTIVE MEASURES. AS APPROPRIATE.
- 30. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS PREPARED BY THE SIGNATORY PROFESSIONAL ENGINEER, THE USE OF THE WORDS CERTIFY OR CERTIFICATION CONSTITUTES AN EXPRESSION OF "PROFESSIONAL OPINION" REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL'S KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED

#### **GENERAL GRADING & UTILITY PLAN NOTES**

- 1. LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE INDEPENDENTLY CONFIRMED WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF 1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS MUST BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES MUST IMMEDIATELY BE REPORTED, IN WRITING, TO THE ENGINEER. CONSTRUCTION MUST COMMENCE • "ALTA / NSPS LAND TITLE SURVEY", PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED 01/14/2020. REGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION
- CONTRACTOR MUST VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED TO, GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, 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 THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION, AT NO COST TO THE OWNER. CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH DAMAGE TO ANY EXISTING LITILITIES DURING CONSTRUCTION
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT AND/OR DISCREPANCY 5. BETWEEN THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE OR APPLICABLE CODES. REGULATIONS, LAWS, RULES, STATUTES AND/OR ORDINANCES, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD. IN WRITING, OF SAID CONFLICT AND/OR DISCREPANCY, PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR'S FAILURE TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE CONTRACTOR'S FULL AND COMPLETE ACCEPTANCE OF ALL RESPONSIBILITY TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, STATUTES, ORDINANCES AND CODES AND, FURTHER, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SAME.
- 4. THE CONTRACTOR MUST LOCATE AND CLEARLY AND UNAMBIGUOUSLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE AND INACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE
- THE CONTRACTOR MUST FAMILIARIZE ITSELF WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION 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 AND ABANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS. RULES. STATUTES, LAWS, ORDINANCES AND CODES
- THE CONTRACTOR MUST INSTALL ALL STORM SEWER AND SANITARY SEWER COMPONENTS WHICH FUNCTION BY GRAVITY PRIOR TO THE INSTALLATION OF ALL OTHER UTILITIES. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. GREASE TRAF REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR MUST COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND TO ENSURE THAT PROPER DEPTHS ARE ACHIEVED. THE CONTRACTOR IS RESPONSIBLE FOR SURING THAT INSTALLATION OF ALL IMPROVEMENTS COMPLIES WITH ALL UTILITY REQUIREMENTS WITH JURISDICTION AND/OR CONTROL OF THE SITE, AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES AND, FURTHER, IS RESPONSIBLE FOR COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE A CONFLICT(S) EXISTS BETWEEN THESE SITE PLANS AND THE ARCHITECTURAL PLANS, OR WHERE ARCHITECTURAL PLAN UTILITY CONNECTION
- WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE MUST INCLUDE ALL FEES, COSTS AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE FULL AND COMPLETE WORKING SERVICE. CONTRACTOR MUST CONTACT THE APPLICABLE

POINTS DIFFER, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING, AND PRIOR TO CONSTRUCTION, RESOLVE SAME

MUNICIPALITY TO CONFIRM THE PROPER WATER METER AND VAULT, PRIOR TO COMMENCING CONSTRUCTION.

- ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC. TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES MUST BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
- SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS MUST BE COMPACTED AS OLITLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT MUST BE SUBMITTED IN A COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER. REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED. VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. SUBBASE 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 IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT. 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 FOR ROADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THERETO.
- ALL FILL. COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION MUST BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND MUST 9. BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS. WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS. FILL AND COMPACTION MUST. AT A MINIMUM, COMPLY WITH THE STATE DOT REQUIREMENTS AND SPECIFICATIONS AND CONSULTANT SHALL HAVE NO LIABILITY OR RESPONSIBILITY FOR OR AS RELATED TO FILL, COMPACTION AND BACKFILL. FURTHER, CONTRACTOR IS FULLY RESPONSIBLE FOR EARTHWORK BALANCE.
- THE CONTRACTOR MUST COMPLY, TO THE FULLEST EXTENT, WITH THE LATEST OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES AND CONSULTANT SHALL HAVE NO RESPONSIBILITY FOR OR AS RELATED FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES.
- PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, MUST EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS MUST BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
  - APPLICABLE STANDARDS. REQUIREMENTS. RULES. STATUTES. LAWS. ORDINANCES AND CODES.

CONSTRUCTION TO IDENTIFY THE AS-INSTALLED LOCATIONS OF ALL UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR MUST CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE

- FROM THE INFORMATION CONTAINED IN THE UTILITY PLAN. THIS RECORD MUST BE KEPT ON A CLEAN COPY OF THE DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER AT THE COMPLETION OF WORK 7. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY. THE ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM OR BE RESPONSIBLE 16. WHEN THE SITE IMPROVEMENT PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL LINES, INCLUDING BUT NOT LIMITED TO STORM SEWER, SANITARY SEWER, UTILITIES, AND IRRIGATION LINE, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS
  - DRAINAGE OR UTILITY PLAN. WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER UPON COMPLETION OF THE WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION CONTRACTOR MUST CONFIRM AND ENSURE 0.75% MINIMUM SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT (EXCEPT WHERE ADA REQUIREMENTS OR EXISTING TOPOGRAPHY LIMIT GRADES), TO PREVENT PONDING. CONTRACTOR MUST IMMEDIATELY IDENTIFY, IN WRITING TO THE ENGINEER, ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF CONTRACTOR PROCEEDS WITH CONSTRUCTION

RESPONSIBLE. CONTRACTOR MUST CAP ENDS AS APPROPRIATE, MARK LOCATIONS WITH A 2X4, AND MUST NOTE THE LOCATION OF ALL OF THE ABOVE ON A CLEAN COPY OF THE

ENGINEER FOR ANY DAMAGES, COSTS, INJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM SAME ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, 18. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM

WITHOUT PROVIDING PROPER NOTIFICATION. MUST BE AT THE CONTRACTOR'S OWN RISK AND. FURTHER, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS THE DESIGN

- CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS, ALL CLAIMS BY EMPLOYEES OF THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER. IN WRITING, OF ANY DISCREPANCIES AND/OR CONFLICTS
  - 20. CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR 18. MUST SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING ANY WORK
  - WHERE RETAINING WALLS (WHETHER OR NOT THEY MEET THE JURISDICTIONAL DEFINITION) ARE IDENTIFIED ON PLANS. FLEVATIONS IDENTIFIED ARE FOR THE EXPOSED PORTION OF THE WALL. WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR BASED ON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS.
  - POLYETHYLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS, IT MUST CONFORM TO AASHTO M294 AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRUGATIONS) WITH GASKET FOR SILT TIGHT JOINT. PVC PIPE FOR ROOF DRAIN CONNECTION MUST BE SDR 26 OR SCHEDULE 40 UNLESS INDICATED OTHERWISE.
  - 23. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, SANITARY SEWER PIPE SHALL BE AS FOLLOWS: FOR PIPES LESS THAN 12 FT. DEEP: POLYVINYL CHLORIDE (PVC) SDR 35 PER ASTM D3034
  - FOR PIPES MORE THAN 12 FT. DEEP: POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034 FOR PIPE WITHIN 10 FT. OF BUILDING, PIPE MATERIAL SHALL COMPLY WITH APPLICABLE BUILDING AND PLUMBING CODES. CONTRACTOR TO VERIFY WITH LOCAL OFFICIALS.
  - STORM AND SANITARY SEWER PIPE LENGTHS INDICATED ARE NOMINAL AND MEASURED CENTER OF INLET AND/OR MANHOLES STRUCTURE TO CENTER OF STRUCTURE
- AND/OR PROPERTY. BOHI ER ENGINEERING AND ITS PERSONNEL HAVE NO ALITHORITY TO EXERCISE ANY CONTROL OVER ANY C FINAL ARCHITECTURAL PLANS
  - SEWERS CROSSING STREAMS AND/OR LOCATION WITHIN 10 FEET OF THE STREAM EMBANKMENT, OR WHERE SITE CONDITIONS SO INDICATE, MUST BE CONSTRUCTED OF STEEL, REINFORCED CONCRETE, DUCTILE IRON OR OTHER SUITABLE MATERIAL. SEWERS CONVEYING SANITARY FLOW COMBINED SANITARY AND STORMWATER FLOW OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. JE SLICH LATERAL SEPARATION IS NOT POSSIBLE. THE PIPES MUST BE IN SEPARATE TRENCHES WITH THE SEWER AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. OR SUCH OTHER SEPARATION AS APPROVED BY THE GOVERNMENT AGENCY WITH
  - WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER MUST BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING ADA INSTRUCTIONS TO CONTRACTOR: MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER MUST BE PROVIDED
- REQUIREMENTS, WATER MAIN PIPING MUST BE CEMENT-LINED DUCTILE IRON (DIP) MINIMUM CLASS 52 THICKNESS. ALL PIPE AND APPURTENANCES MUST COMPLY WITH THE APPLICABLE AWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION. WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, THEY AGREE TO 29. CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SEWER, WATER AND STORM SYSTEMS, MUST BE REPAIRED IN

28. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER PURVEYOR. IN THE ABSENCE OF SUCH

- ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND/OR DOT DETAILS AS APPLICABLE. CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK

SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY

#### **GENERAL DEMOLITION NOTES**

- AMENDED AND ANY MODIFICATIONS. AMENDMENTS OR REVISIONS TO SAME
- BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.
- THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE

CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS

- CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS. CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED TO BY BOHLER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. 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,
- PRIOR TO STARTING ANY DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR/TO:

REQUIREMENTS, STATUTES, ORDINANCES AND CODES.

- A.OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK, AND DEMOLITION WORK
- B. NOTIFYING, AT A MINIMUM, THE MUNICIPAL ENGINEER, DESIGN ENGINEER, AND LOCAL SOIL CONSERVATION DISTRICT, 72 HOURS PRIOR TO THE START OF WORK.
- C.INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE
- D.IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR MUST CALL THE STATE ONE-CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARKOUT, IN ADVANCE OF ANY
- E.LOCATING AND PROTECTING 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 THE UNDERGROUND UTILITIES.
- F. PROTECTING AND MAINTAINING IN OPERATION. ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
- G.ARRANGING FOR AND COORDINATING WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) FOR THE TEMPORARY OR PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT PLANS AND SPECIFICATIONS. THE CONTRACTOR MUST PROVIDE THE UTILITY ENGINEER AND OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPANY REQUIREMENTS.
- H. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED RTIES. WORK REQUIRED TO BE DONE "OFF-PEAK" IS TO BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- I. IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL. THE REMOVAL OF WHICH IS NOT ADDRESSED IN THE PROJECT PLANS AND SPECIFICATIONS. THE CONTRACTOR MUST IMMEDIATELY CEASE ALL WORK AND IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF THE DISCOVERY OF SUCH MATERIALS.
- THE FIRM OR ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR MUST PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
- THE CONTRACTOR MUST PROVIDE ALL "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN. CONTRACTOR MUST USE NEW MATERIAL FOR ALL REPAIRS. CONTRACTOR'S REPAIR MUST INCLUDE THE RESTORATION OF ANY ITEMS REPAIRED TO THE PRE-DEMOLITION CONDITION, OR BETTER. CONTRACTOR SHALL PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE
- THE CONTRACTOR MUST NOT PERFORM ANY FARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOLINDATION WALLS, FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE UNLESS SAME IS IN STRICT ACCORDANCE AND CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, AND/OR UNDER THE WRITTEN DIRECTION OF THE OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
- 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 NEW IMPROVEMENTS AND PERFORMED IN COMPLIANCE WITH THE RECOMMENDATIONS AND GUIDANCE IN THE GEOTECHNICAL REPORT. BACKFILLING MUST OCCUR IMMEDIATELY AFTER DEMOLITION ACTIVITIES, AND MUST BE DONE SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISHED SURFACES MUST BE GRADED TO PROMOTE POSITIVE DRAINAGE.
- EXPLOSIVES MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND ALL APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS MUST BE IN PLACE PRIOR TO CONTRACTOR STARTING AN EXPLOSIVE PROGRAM AND/OR ANY DEMOLITION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
- CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), AND THE FEDERAL, STATE. AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROADWAY
- ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT TO THE RIGHT-OF-WAY.

CONTRACTOR MUST CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND

OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY PRIOR TO THE COMMENCEMENT OF

- DEMOLITION ACTIVITIES AND EQUIPMENT MUST NOT USE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE, WITHOUT WRITTEN PERMISSION OF THE OWNER AND ALL OVERNMENTAL AGENCIES WITH JURISDICTION
- THE CONTRACTOR MUST USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, CONTRACTOR MUST CLEAN ALL ADJACENT STRUCTURES AND IMPROVEMENTS TO REMOVE ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION"
- 16. CONTRACTOR IS RESPONSIBLE TO SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED
- PERSONS AT ANY TIME. CONTRACTOR IS RESPONSIBLE FOR SITE JOB SAFETY, WHICH MUST INCLUDE, BUT NOT BE LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING AND
- OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITY. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION AS TO THE MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED TO ACCOMPLISH THAT WORK. ALL MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED MUST BE IN STRICT ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR MUST COMPLY
- DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES. THE CONTRACTOR MUST MAINTAIN RECORDS TO DEMONSTRATE PROPER DISPOSAL ACTIVITIES, TO BE PROMPTLY PROVIDED TO THE OWNER UPON REQUEST
- 20. CONTRACTOR MUST MAINTAIN A RECORD SET OF PLANS UPON WHICH IS INDICATED 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

WITH ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE

CONTRACTORS MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (ACCESSIBLE) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH ALL APPLICABLE STATE AND LOCAL ACCESSIBILITY LAWS AND REGULATIONS AND THE CURRENT ADA AND/OR STATE ARCHITECTURAL ACCESS BOARD STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SAME. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO

POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THESE ADA AND/OR ARCHITECTURAL ACCESS BOARD CODE REQUIREMENTS. THESE INCLUDE, BUT

- ARE NOT LIMITED TO THE FOLLOWING: • PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
- CURB RAMPS SLOPE MUST NOT EXCEED 1:12 (8.3%) FOR A MAXIMUM OF SIX (6) FEET.
- LANDINGS MUST BE PROVIDED AT EACH END OF RAMPS, MUST PROVIDE POSITIVE DRAINAGE, AND MUST NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY
- PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 36-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE MUST BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL. AND MUST NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), ADA RAMP MUST BE ADHERED TO. A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM RISE OF 2.5 FEET, MUST BE PROVIDED. THE RAMP MUST HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE CROSS SLOPED NO MORE THAN 1:50 IN ANY DIRECTION (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE.
- DOORWAYS MUST HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO LESS THAN 60 INCHES (5 FEET) LONG. EXCEPT WHERE OTHERWISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2003 AND OTHER REFERENCED INCORPORATED BY CODE.)
- WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, CONTRACTOR MUST VERIFY EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES. IN PARE CIRCUMSTANCES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS. IN WRITING, BEFORE COMMENCEMENT O WORK. CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE AD.
- THE CONTRACTOR MUST VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE IS OBSERVED OR EXISTS CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND REPLACE NON-CONFORMING CONCRETE.
- IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCEMENT OF

#### TYPICAL ABBREVIATIONS

| KEY    | DESCRIPTION                       | KEY      | DESCRIPTION                   |
|--------|-----------------------------------|----------|-------------------------------|
| ВС     | BOTTOM CURB                       | PROP.    | PROPOSED                      |
| TC     | TOP CURB                          | TBR/R    | TO BE REMOVED<br>AND REPLACED |
| вос    | BACK OF CURB                      | TBR      | TO BE REMOVED                 |
| BW     | BOTTOM OF WALL GRADE              | TPF      | TREE PROTECTION FENCE         |
| TW     | TOP OF WALL                       | BLDG.    | BUILDING                      |
| EXIST. | EXISTING                          | SF       | SQUARE FEET                   |
| BM.    | BENCHMARK                         | SMH      | SEWER MANHOLE                 |
| EOP    | EDGE OF PAVEMENT                  | DMH      | DRAIN MANHOLE                 |
| Ģ.     | CENTERLINE                        | STM.     | STORM                         |
| FF     | FINISHED FLOOR                    | SAN.     | SANITARY                      |
| V.I.F. | VERIFY IN FIELD                   | CONC.    | CONCRETE                      |
| GC     | GENERAL CONTRACTOR                | ARCH.    | ARCHITECTURAL                 |
| HP     | HIGH POINT                        | DEP.     | DEPRESSED                     |
| LP     | LOW POINT                         | R        | RADIUS                        |
| TYP.   | TYPICAL                           | MIN.     | MINIMUM                       |
| INT.   | INTERSECTION                      | MAX.     | MAXIMUM                       |
| PC.    | POINT OF CURVATURE                | No. / #  | NUMBER                        |
| PT.    | POINT OF TANGENCY                 | W.       | WIDE                          |
| PI.    | POINT OF INTERSECTION             | DEC.     | DECORATIVE                    |
| PVI.   | POINT OF VERTICAL<br>INTERSECTION | ELEV.    | ELEVATION                     |
| STA.   | STATION                           | UNG.     | UNDERGROUND                   |
| GRT    | GRATE                             | R.O.W.   | RIGHT OF WAY                  |
| INV.   | INVERT                            | LF       | LINEAR FOOT                   |
| DIP    | DUCTILE IRON PIPE                 | LOD      | LIMIT OF DISTURBANCE          |
| PVC    | POLYVINYL CHLORIDE PIPE           | LOW      | LIMIT OF WORK                 |
| HDPE   | HIGH DENSITY POLYETHYLENE PIPE    | L.S.A.   | LANDSCAPED AREA               |
| RCP    | REINFORCED CONCRETE<br>PIPE       | ±        | PLUS OR MINUS                 |
| S      | SLOPE                             | ۰        | DEGREE                        |
| ME     | MEET EXISTING                     | Ø / DIA. | DIAMETER                      |
|        |                                   |          |                               |

# TYPICAL LEGEND

| EXISTING              |                      | PROPOSED             |
|-----------------------|----------------------|----------------------|
| # # <b></b>           | PROPERTY LINE        |                      |
|                       | SETBACK              |                      |
|                       | EASEMENT             |                      |
|                       | CURB                 |                      |
| 0                     | STORM MANHOLE        | <b>©</b>             |
| <b>S</b>              | SEWER MANHOLE        | <b>©</b>             |
|                       | CATCH BASIN          |                      |
| <i>₩F#5</i>           | WETLAND FLAG         |                      |
|                       | WETLAND LINE         |                      |
| × 54.83               | SPOT ELEVATION       | 53.52                |
| × TC 54.58<br>G 53.78 | TOP & BOTTOM OF CURB | TC=54.32<br>BC=53.82 |
| 53                    | CONTOUR              | 50                   |
|                       | FLOW ARROW           | 5%_                  |
|                       | PAINTED ARROW        | <b>\</b>             |
|                       | RIDGE LINE           |                      |
|                       | GAS LINE             |                      |
|                       | TELEPHONE LINE       | TT                   |
| EE                    | ELECTRIC LINE        | EE                   |
| WW                    | WATER LINE           |                      |
| OHOH                  | OVERHEAD WIRE        | —— OH——— OH——        |
| = = = = = = =         | STORM PIPE           |                      |
| =======               | SANITARY LINE        | S                    |
| 10                    | PARKING COUNT        | 4                    |
| -                     | SIGN                 | -                    |
| <^₹>                  | LIGHT POLE           | <b>=</b>             |
|                       | GUIDE RAIL           | <u> </u>             |
| ø                     | UTILITY POLE         | ø                    |

REFER TO SITE PLAN FOR ZONING ANALYSIS TABLE AND LAND USE **ZONING INFORMATION & NOTES** 

REFER TO SOIL EROSION CONTROL NOTES & DETAILS SHEET FOR TYPICAL SHEET TITLE: **EROSION NOTES AND DETAILS** 

REFER TO LANDSCAPE NOTES & **DETAILS SHEET FOR TYPICAL** LANDSCAPE NOTES AND DETAILS

REFER TO LIGHTING PLAN FOR TYPICAL LIGHTING NOTES AND TABLES

**REVISIONS** 

COMMENT REV DATE ZBA SPECIAL PERMIT 02/10/20 & SITE PLAN REVIEW

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**PLAN DOCUMENTS** 

**DEVELOPMENT** 

888 ASHLEY BOULEVARD **BRISTOL COUNTY NEW BEDFORD, MASSACHUSETTS MAP #127C, LOT #134** BK.4155, PG.343

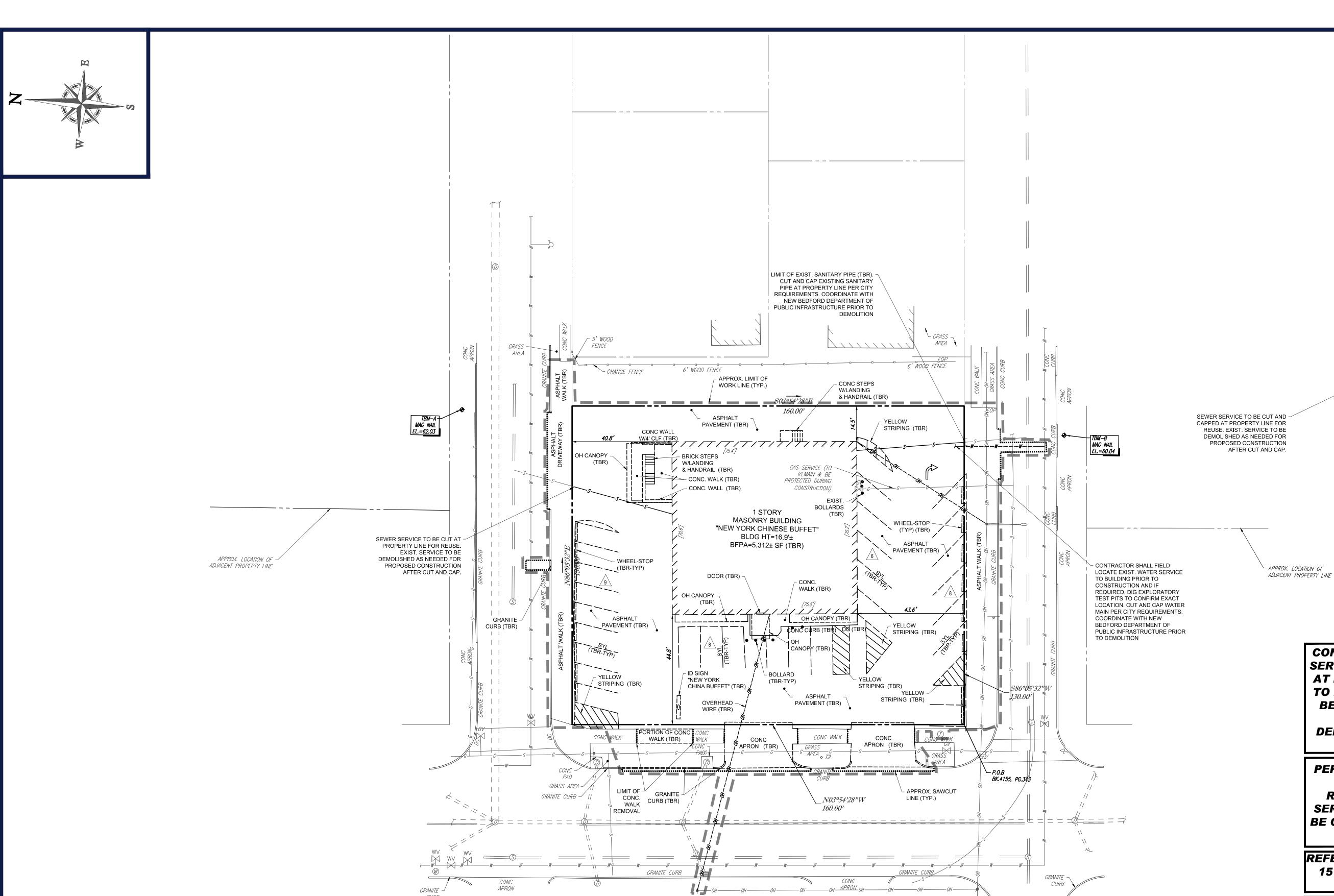
352 TURNPIKE ROAD **SOUTHBOROUGH, MA 01772** Phone: (508) 480-9900 Fax: (508) 480-9080

J.A. BERNARDINO

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DO ON SUN BRANDS

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PROPOSED DEVELOPMENT 888 ASHLEY BOULEVARD

**BRISTOL COUNTY NEW BEDFORD, MASSACHUSETTS** MAP #127C, LOT #134 BK.4155, PG.343

**352 TURNPIKE ROAD** SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900 Fax: (508) 480-9080 www.BohlerEngineering.com

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SHEET TITLE:

**DEMOLITION** PLAN

C-201

**REVISION 1 - 02/10/20** 

CONTRACTOR TO DETERMINE WATER SERVICE SIZE PRIOR TO CUT AND CAP AT MAIN. IF SERVICE IS DETERMINED TO BE 2" OR LARGER, CONTACT NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE PRIOR TO DEMOLITION AND REMOVAL OF ANY UTILITIES.

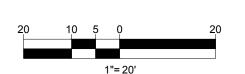
PER NEW BEDFORD DEPARTMENT OF **PUBLIC INFRASTRUCTURE** REGULATIONS, EXISTING SEWER SERVICES TO BE ABANDONED SHALL BE CUT & CAPPED AT PROPERTY LINE BY THE CONTRACTOR.

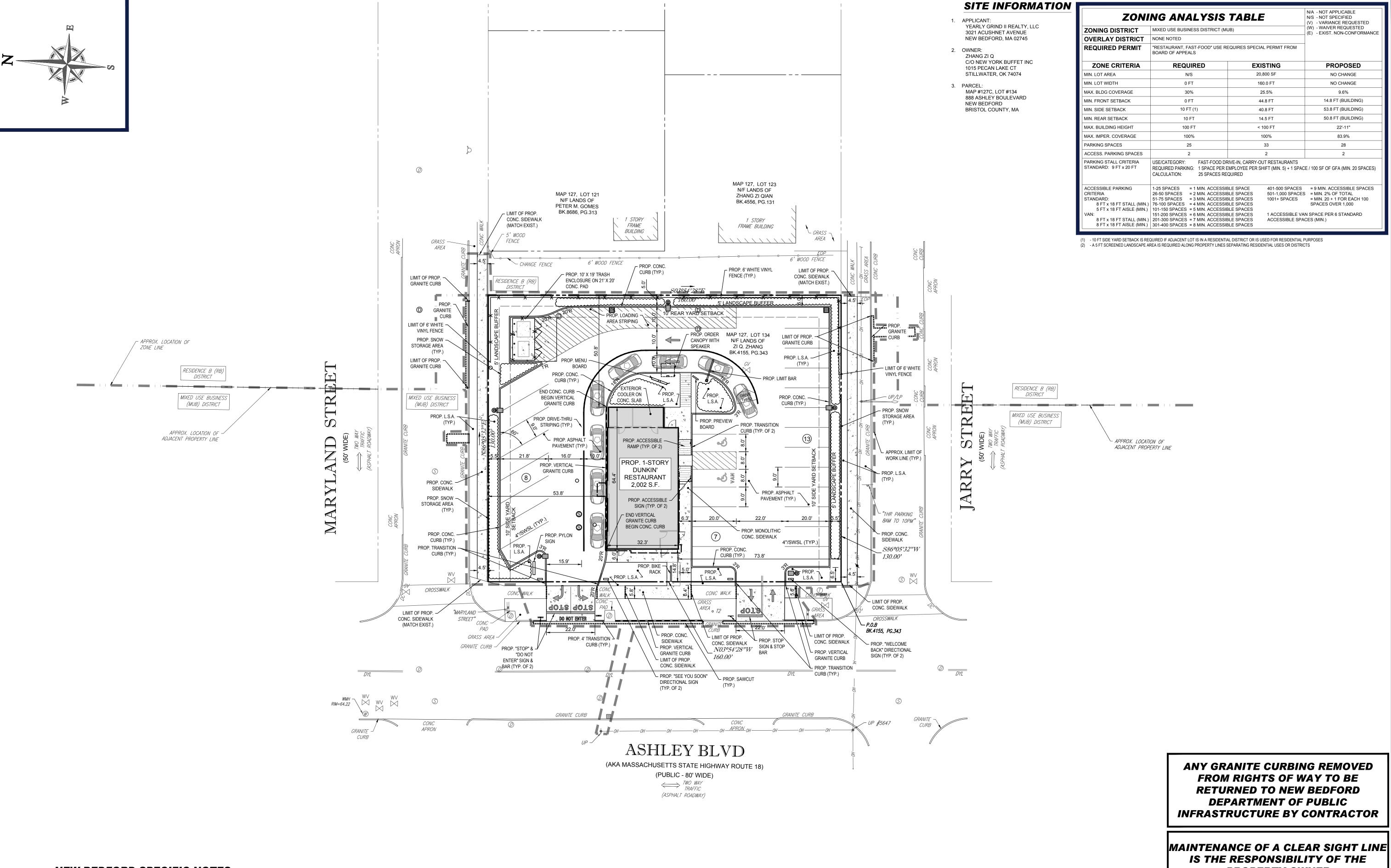
REFER TO GENERAL DEMOLITION NOTE 15 ON GENERAL NOTES SHEET FOR **DUST CONTROL MEASURES** 

NOTE: ANY EXISTING SITE FEATURE LOCATED OUTSIDE OF THE PROPOSED LIMIT OF WORK LINE SHALL BE **CONSIDERED "TO REMAIN" UNLESS** SPECIFICALLY NOTED OTHERWISE.

REFER TO GENERAL NOTES SHEET FOR **DEMOLITION NOTES** 

THIS PLAN TO BE UTILIZED FOR DEMOLITION REMOVAL **PURPOSES ONLY** 





ANY MINOR MODIFICATIONS (AS DETERMINED BY THE CITY ENGINEER) TO THE INFORMATION SHOWN ON THE APPROVED SITE PLANS SHALL BE SUBMITTED TO THE CITY ENGINEER AS A MINOR PLAN REVISION FOR APPROVAL PRIOR TO THE WORK BEING PERFORMED.

ANY WORK AND MATERIAL WITHIN THE CITY RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF

3. ALL ACCESSIBLE PARKING, RAMPS, AND ACCESS SHALL CONFORM TO AAB & MAAB REQUIREMENTS.

REQUIREMENTS AS STATED IN THE ORDER OF CONDITIONS. (REFER TO EROSION CONTROL PLAN).

4. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION. EROSION CONTROL SHALL CONFORM TO THE CITY OF NEW BEDFORD CONSERVATION COMMISSION

ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO MUTCD REQUIREMENTS.

RETURNED TO NEW BEDFORD **INFRASTRUCTURE BY CONTRACTOR** 

IS THE RESPONSIBILITY OF THE PROPERTY OWNER

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY. REFER TO **GENERAL NOTES** SHEET FOR ADDITIONAL NOTES



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PROPOSED DEVELOPMENT

888 ASHLEY BOULEVARD **BRISTOL COUNTY NEW BEDFORD, MASSACHUSETTS** MAP #127C, LOT #134

BK.4155, PG.343

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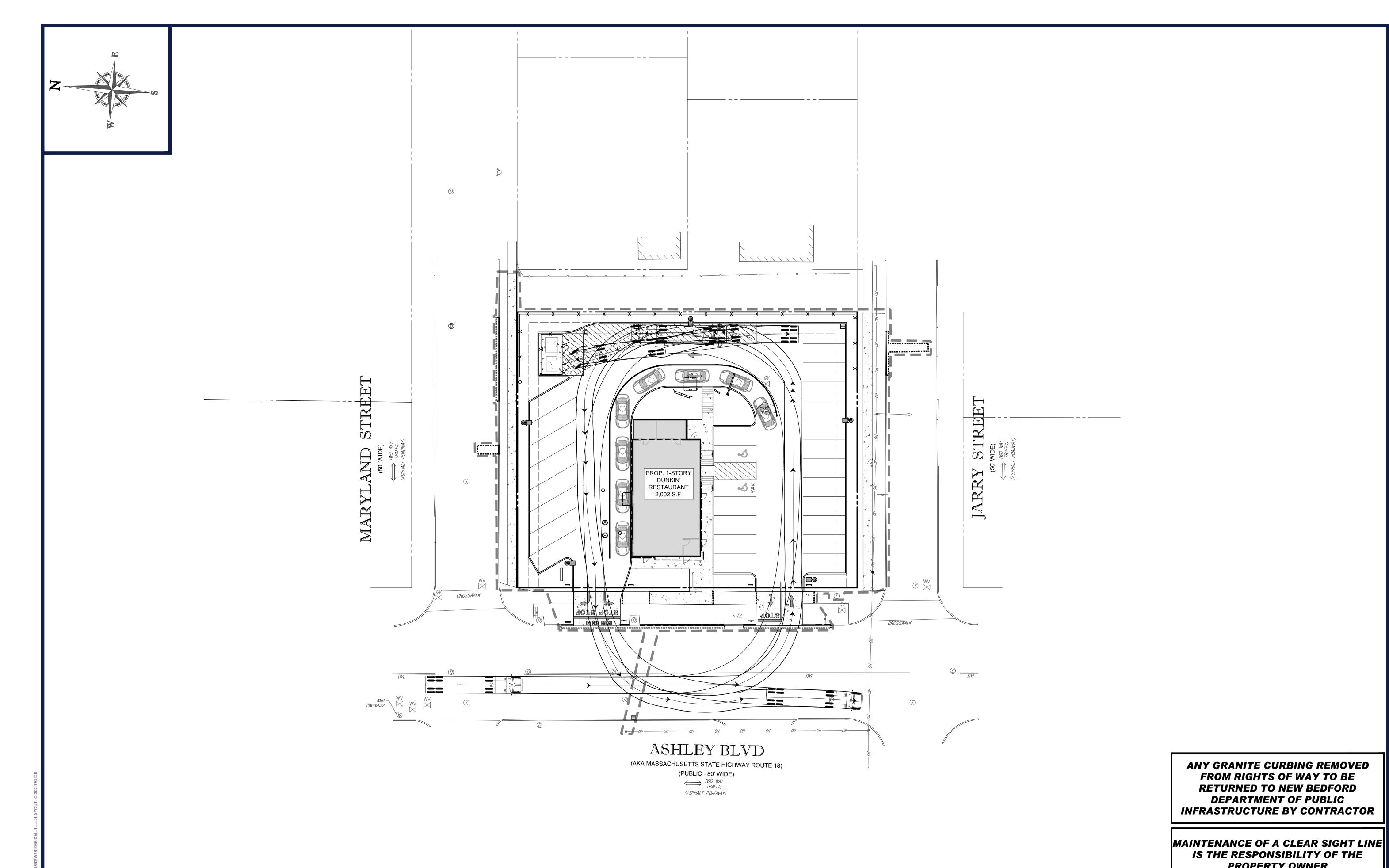
# J.A. BERNARDINO

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SHEET TITLE:

SITE **LAYOUT** PLAN

C-301



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888 ASHLEY BOULEVARD BRISTOL COUNTY NEW BEDFORD, MASSACHUSETTS MAP #127C, LOT #134 BK.4155, PG.343

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Fax: (508) 480-9080 www.BohlerEngineering.com

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SHEET TITLE:

PROPERTY OWNER

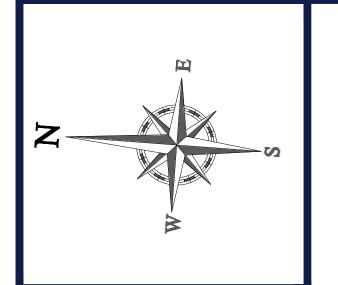
THIS PLAN TO BE UTILIZED FOR SITE

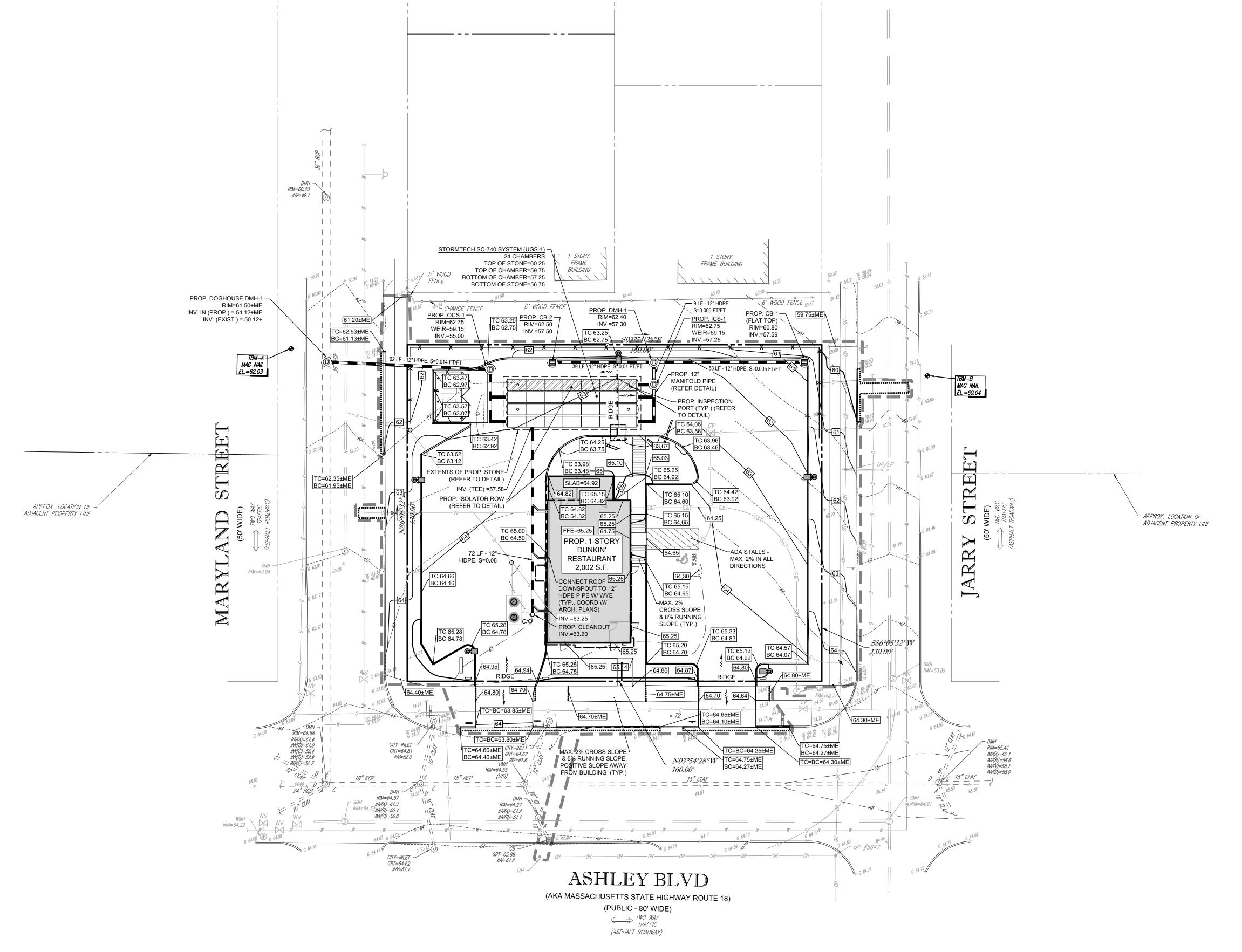
LAYOUT PURPOSES ONLY. REFER TO

**GENERAL NOTES** SHEET FOR ADDITIONAL NOTES

TRUCK TURN PLAN

C-302





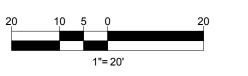
THE CONTRACTOR SHALL OBTAIN A STREET DISTURBANCE & OBSTRUCTION PERMIT PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT-OF-WAY

ALL WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF NEW BEDEORD REQUIREMENTS.

3. ALL WATER AND SEWER CONSTRUCTION SHALL BE INSPECTED BE THE CITY OF NEW BEDFORD BEFORE BEING BACKFILLED

4. THE CITY SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE REQUIRED INSPECTIONS

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL GRADING & UTILITY NOTES



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DEVELOPMENT

888 ASHLEY BOULEVARD

BRISTOL COUNTY

NEW BEDFORD, MASSACHUSETTS

MAP #127C, LOT #134 BK.4155, PG.343

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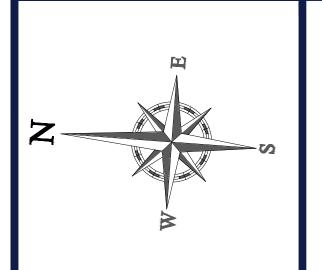
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CONNECTICUT LICENSE No. 27475

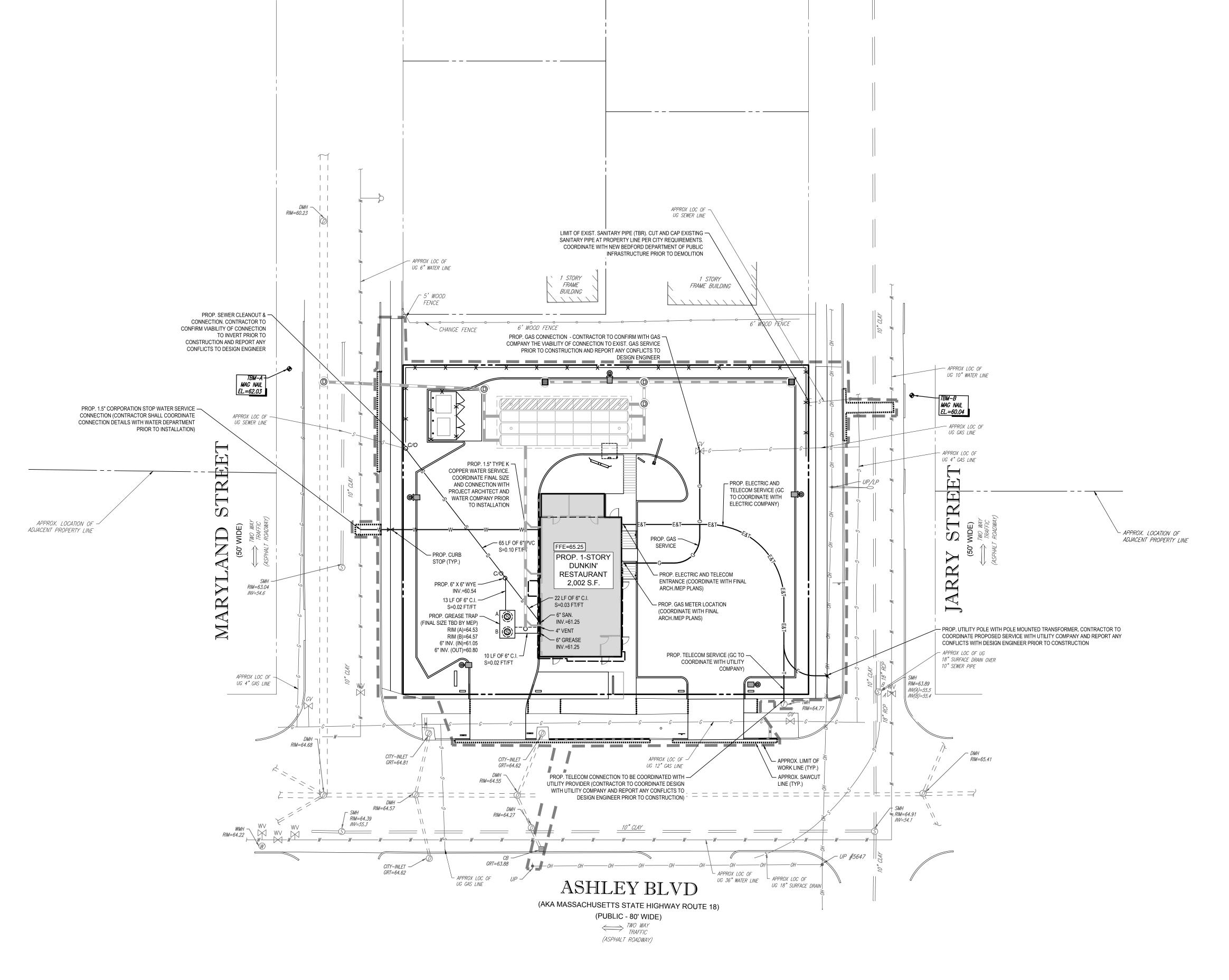
ET TITLE:

GRADING AND DRAINAGE PLAN

SHEET NUMBER:

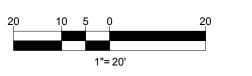
C-401





- 1. THE CONTRACTOR SHALL OBTAIN A STREET DISTURBANCE & OBSTRUCTION PERMIT PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT-OF-WAY
- 2. ALL WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF NEW BEDFORD REQUIREMENTS
- 3. ALL WATER AND SEWER CONSTRUCTION SHALL BE INSPECTED BE THE CITY OF NEW
- 4. THE CITY SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE REQUIRED INSPECTIONS

THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL GRADING & UTILITY NOTES



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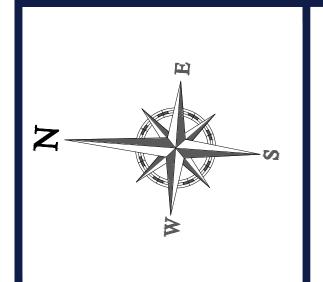
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CONNECTICUT LICENSE No. 27475

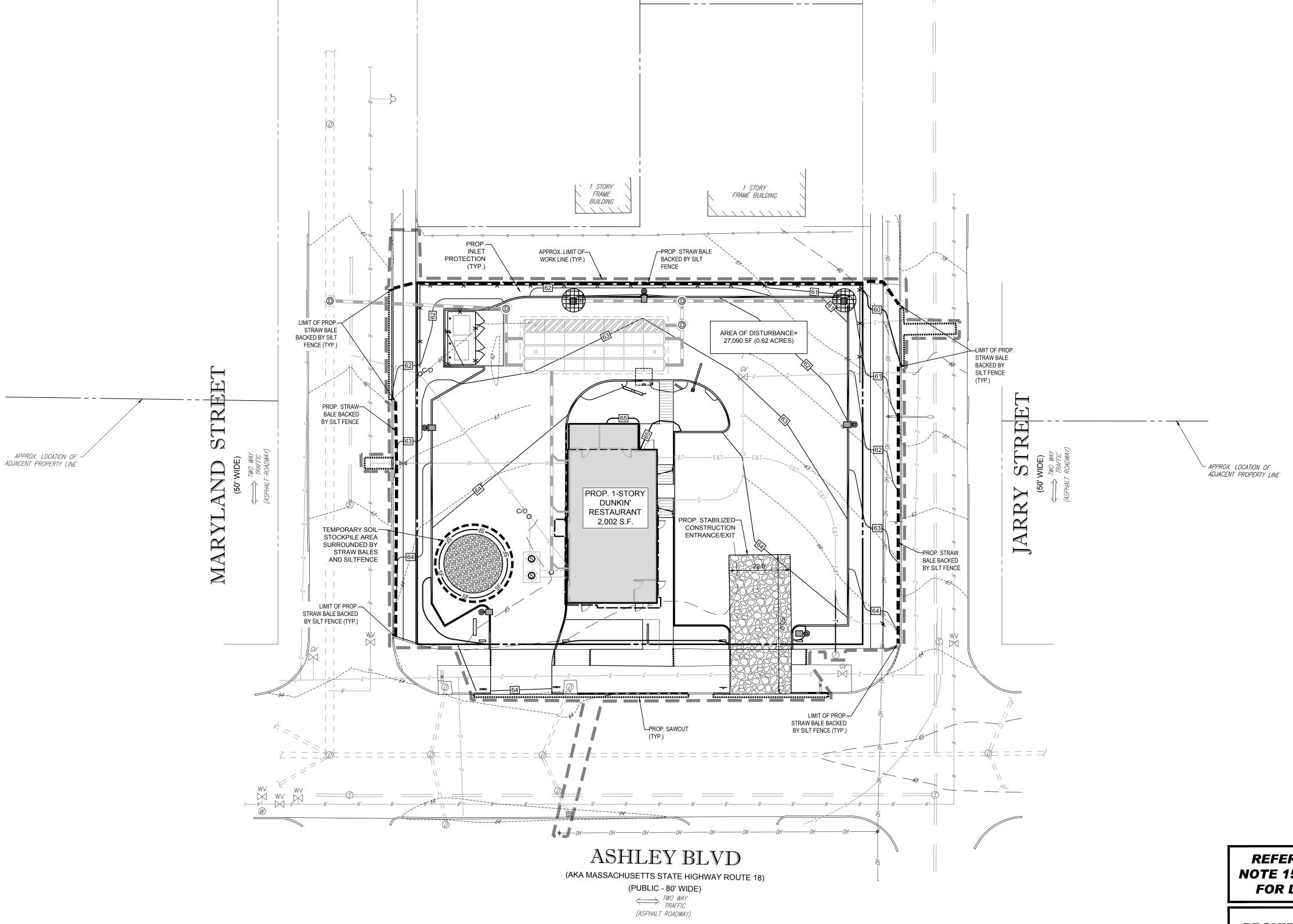
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UTILITY PLAN

IEET NUMBER:

C-501





1. ALL BMP EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO DEMOLITION OR ANY SITE WORK.

2. EROSION CONTROL BMPS SHALL CONFORM TO US EPA, NPDES, MADEP AND MASSACHUSETTS EROSION CONTROL AND SEDIMENTATION CONTROL GUIDELINES FOR URBAN

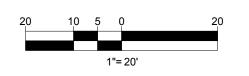
3. MAINTENANCE SPECIFICATIONS FOR ALL PROPOSED EROSION AND SEDIMENTATION CONTROLS

REFER TO GENERAL DEMOLITION NOTE 15 ON GENERAL NOTES SHEET FOR DUST CONTROL MEASURES

PROVIDE SAFETY FENCING AROUND STOCKPILES OVER 10' IN HEIGHT

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

REFER TO SOIL EROSION CONTROL
NOTES & DETAIL SHEET FOR EROSION
NOTES AND DETAILS



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DEVELOPMENT

888 ASHLEY BOULEVARD

BRISTOL COUNTY

NEW BEDFORD, MASSACHUSETTS

MAP #127C, LOT #134 BK.4155, PG.343

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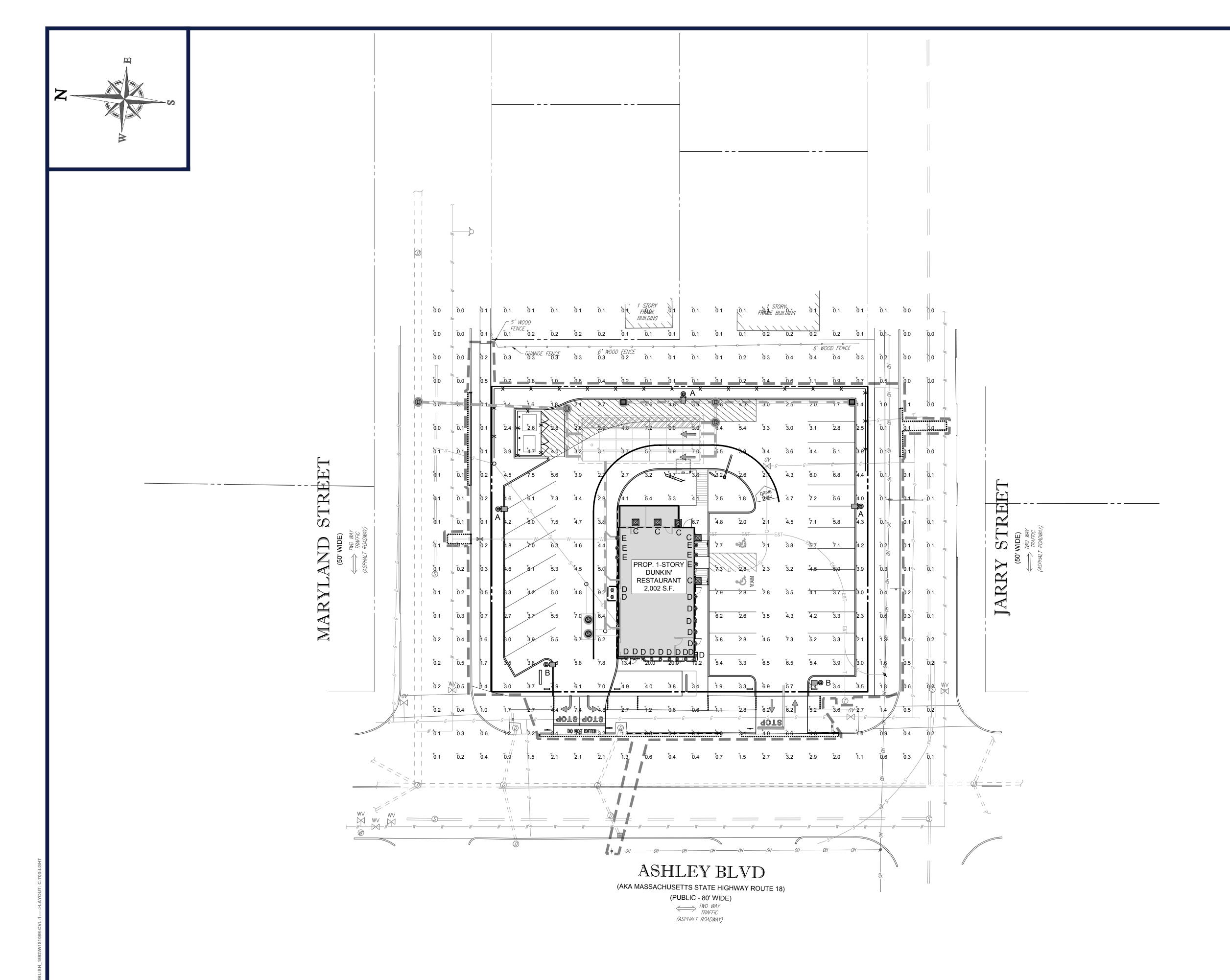
SHEET TITLE:

SOIL EROSION &
SEDIMENT
CONTROL PLAN

ET NUMBER:

C-601

#### **EROSION AND SEDIMENT CONTROL NOTES** ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND 2 RE-BARS, STEEL PICKETS-EROSION CONTROL MANUAL. OR 2"x 2" STAKE 1 1/2' TO 2' IN GROUND, DRIVE STAKES THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM **FLUSH WITH BALES** TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS). ANGLE FIRST STAKE-SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES TOWARDS PREVIOUSLY LAID GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%. INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #5. 1:3 MAXIMUM SLOPE-ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY **BOUND BALES-**FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR PLACED ON DECOMPOSITION, SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN CONTOUR DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY TURF. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1). DRAINAGE AREA NO MORE THAN \$\frac{1}{4}\$ AC. PER 100 FEEL OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD 1. BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE TIGHTLY ABUTTING THE ADJACENT BALES. CONSTRUCT SILT FENCE AROUND PERIMETER OF STOCKPILE-FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS. 2. EACH BALE SHALL BE PLACED SO THE BINDINGS ARE HORIZONTAL. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS: BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE. **REVISIONS** 10.1. SIX INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE. 4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPTLY AS NEEDED. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, COMMENT 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF USING IMPEDE STORM FLOW OR DRAINAGE. ZBA SPECIAL PERMIT 10-20-20 OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 02/10/20 & SITE PLAN REVIEW TONS PER ACRE (138 LB PER1,000 SF). FOLLOWING SEED BED PREPARATION. DITCHES AND BACK SLOPES WILL BE SEEDED TO A MIXTURE OF 47% CREEPING RED FESCUE. 5% REDTOP. AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUE-GRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS: SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED. STRAW MULCH AT THE RATE OF 70-90 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS WILL BE USED ON STRAW MULCH FOR WIND STRAW BALE TEMPORARY STOCKPILE ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED. N.T.S. WETLANDS WILL BE PROTECTED W/ STRAW, COMPOST, AND/OR SILT FENCE BARRIERS INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE. . ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS. SEE CHART 1 R.O.W. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES EXISTING GROUND-PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED, RATE (1000 SF) 100 POUNDS PROTECT AREA WOOD OR PLASTIC-/--1-1/2" x 1-1/2" POST SLAT STAPLED THROUGH Know what's **below**. WINDY AREA SHREDDED OR CHOPPED CORNSTALKS 185-275 POUNDS FABRIC TO POST Call before you dig. PROVIDE APPROPRIATE TRANSITION STRAW (ANCHORED)\* 100 POUNDS 2-1/2" CLEAN STONE-BETWEEN STABILIZED CONSTRUCTION **ALWAYS CALL 811** DETAIL OF POST ATTACHMENT ENTRANCE AND PUBLIC R.O.W. MODERATE TO HIGH JUTE MESH OR EXCELSIOR MAT AS REQUIRED PROFILE -FILTER (PRE-ASSEMBLED PRIOR TO INSTALLATION) VELOCITY AREAS OR **FABRIC** It's fast. It's free. It's the law. SEE CHART STEEP SLOPES POST-**GREATER THAN 3:1** -SLAT -SILT FENCE (3' WIDE) GREATER THAN 3:1 -BACKFII (REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT) PERMIT SET \* A HYDRO-APPLICATION OF WOOD, OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR \_\_\_\_\_\_ (12" MAX. PLUS SHALL BE USED ON STRAW MULCH FOR WIND CONTROL. IN ROCKY THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENC SOIL.) EVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUC DOCUMENT UNLESS INDICATED OTHERWISE. RIGHT OF -EXISTING-ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD/BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 WAY LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK. WETTING FOR SMALL PROJECT No.: AREAS AND ROAD DITCHES MAY BE PERMITTED. DRAWN BY: **CHECKED BY** EROSION CONTROL NOTES DURING WINTER CONSTRUCTION CAD I.D.: W181086-CVL-WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15. PERSPECTIVE OF FENCE PLAN VIEW PROJECT: WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION PROPOSED SITE EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. EXCAVATE A 6"x6" TRENCH ALONG THE LINE OF EROSION CONTROL OF THE SITE. **PLAN DOCUMENTS** 2. UNROLL SILTATION FENCE AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE PERCENT SLOPE OF ROADWAY LENGTH OF STONE REQUIRED CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE TRENCH (NET SIDE AWAY FROM FLOW DIRECTION). AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS LAYING ACROSS THE TRENCH BOTTOM. 4. LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL ALSO BE 2% TO 5% ACCOMPLISHED BY LAYING FABRIC FLAP ON UNDISTURBED GROUND AND PILING & TAMPING FILL AT THE BASE. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE ( OR STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED. MULCHED AND (1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY. ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200 -STABILIZED CONSTRUCTION ENTRANCE TYP. SILTATION FENCE 300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING **DEVELOPMENT** WEATHER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER 888 ASHLEY BOULEVARD CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY BRISTOL COUNTY THE INSTALLATION OF BALES OF STRAW OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS. LOOPS SIZED FOR 1"-SECURE LIFTING LOOPS TO OR UNDER SURFACE **NEW BEDFORD, MASSACHUSETTS** REBAR. LIFT FILET BAG **MAP #127C, LOT #134** MULCHING REQUIREMENTS: FROM INLET USING THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED: BK.4155, PG.343 REBAR FOR HANDLES -1/4" BRIGHTLY BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH COLORED NYLON ROPE -INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN) NETTING OR WOOD CELLULOSE FIBER. OVERFLOW HOLES-2"X2"X3/4"-**EXPANSION RESTRAINT** RUBBER BLOCK -INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN) GEOTEXTILE BAG-7.2. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE I/4" BRIGHTLY COLORED— EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%. REMOVE TRAPPED SEDIMENT -INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN) YLON ROPE EXPANSION WHEN BRIGHTLY COLORED RESTRAINT 7.3. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE EXPANSION RESTRAINT CAN N -DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN) 352 TURNPIKE ROAD SAME APPLIES FOR ALL SLOPES GREATER THAN 8%. LOOPS SIZED FOR 1"-LONGER BE SEEN. REBAR. USE REBAR FOR SOUTHBOROUGH, MA 01772 -DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN) .... AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE GEOTEXTILE SHALL BE A WOVE HANDLE TO EMPTY FILTER Phone: (508) 480-9900 END OF EACH WORKING DAY. SACK AT A SEDIMENT POLYPROPYLENE FABRIC THAT Fax: (508) 480-9080 COLLECTION LOCATION. MEETS OR EXCEEDS www.BohlerEngineering.com DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO REQUIREMENTS IN THE -INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS SPECIFICATIONS TABLE. -EARTHWORK AND EXCAVATION/FILLING AS NECESSARY STOCKPILING OF MATERIALS (DIRT. WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE PLACE AN OIL ADSORBENT PAI ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION OR PILLOW OVER INLET GRATE -CONSTRUCTION OF UTILITIES J.A. BERNARDINO SECTION VIEW WHEN OIL SPILLS ARE A CONCERN. -STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED. PROFILE VIEW OF INSTALLED FILTER SACK INSPECT PER REGULATORY -INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN) REQUIREMENTS. PROFESSIONAL ENGINEER -CONSTRUCTION OF BUILDINGS THE WIDTH, "W", OF THE FILTE MASSACHUSETTS LICENSE No. 41717 SACK SHALL MATCH THE INSI -CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS GRAB TENSILE STRENGTH ASTM D-4632 RHODE ISLAND LICENSE No. 9114 WIDTH OF THE GRATED INLET CONNECTICUT LICENSE No. 27475 GRAB TENSILE ELONGATION ASTM D-4632 -SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH PUNCTURE ASTM D-4833 120 LBS MULLEN BURST ASTM D-3786 THE DEPTH, "D", OF THE FILTER 120 LBS -FINAL GRADING OF ALL SLOPED AREAS TRAPEZOID TEAR ASTM D-4533 SACK SHALL BE BETWEEN 18 UV RESISTANCE ASTM D-4355 80% INCHES AND 36 INCHES. 40 US SIEVE -PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED APPARENT OPENING SIZE ASTM D-4751 **EROSION AND** 40 GAL/MIN/SQ F FLOW RATE ASTM D-4491 MIXTURE TO BE INSTALLED AS REQUIRED. THE LENGTH, "L", OF THE FILTE PERMITTIVIT MODERATE TO HIGH FLOW GE SACK SHALL MATCH THE INSIDE SEDIMENT -REMOVAL OF THE TEMPORARY SEDIMENT BASINS PROPERTIES LENGTH OF THE GRATED INLET GRAB TENSILE STRENGTH ASTM D-4632 -PAVE PARKING LOT CONTROL NOTES GRAB TENSILE ELONGATION ASTM D-4632 PUNCTURE ASTM D-4833 135 LBS -LANDSCAPING PER LANDSCAPING PLAN MULLEN BURST ASTM D-3786 420 PSI AND DETAILS TRAPEZOID TEAR ASTM D-4533 45 LBS -REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR UV RESISTANCE ASTM D-4355 APPARENT OPENING SIZE ASTM D-4751 20 US SIEVE FLOW RATE ASTM D-4491 200 GAL/MIN/SQ FT C-602 ASTM D-4491 DO NOT USE IN PAVED AREAS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS FILTER SACS (GRATED INLETS) **CONSTRUCTION SEQUENCE REVISION 1 - 02/10/20**

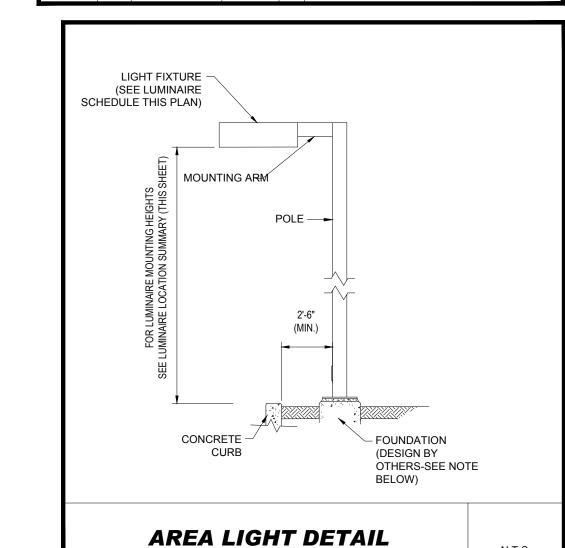


#### LIGHTING NOTES

- 1. THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- 2. THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.90 FOR ALL LED LUMINAIRES, 0.80 FOR ALL HIGH PRESSURE SODIUM LUMINAIRES OR 0.72 FOR ALL METAL HALIDE LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.
- THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A
  HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED.
  THE VALUES DEPICTED ON THIS PLAN ARE IN FOOTCANDLES.
- 4. THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINAIRES, LAMPS AND LENSES TO FAIL PROPERLY TO FUNCTION.
- 5. WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE, CONSEQUENTLY, APPROXIMATIONS ONLY. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC, ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.
- 6. THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. POWER SYSTEM, CONDUITS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. LIGHT POLE BASES ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATLITES
- CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
- IT IS THE LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING THE POWER SOURCE(S) FROM WITHIN THE BUILDING, AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT.
- THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO, GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL GOVERNMENTAL RULES, LAWS, ORDINANCES, REGULATIONS AND THE LIKE.
- THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR SEPARATION FROM OVERHEAD ELECTRICAL WIRES PER STATE REGULATIONS.
- 11. UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.

| NUMERIC SUMMARY |             |       |      |      |     |         |         |
|-----------------|-------------|-------|------|------|-----|---------|---------|
| LABEL           | CALCTYPE    | UNITS | AVG  | MAX  | MIN | AVG/MIN | MAX/MIN |
| AREA SUMMARY    | ILLUMINANCE | FC    | 4.91 | 20.0 | 1.7 | 2.89    | 11.76   |

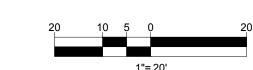
|                | LUMINAIRE SCHEDULE |                  |        |      |   |  |  |  |
|----------------|--------------------|------------------|--------|------|---|--|--|--|
| SYMBOL         | QTY                | ARRANGEMENT      | LUMENS | LLF  | DESCRIPTION   |  |  |  |
| <b>©</b> € A 3 |                    | SINGLE W/ SHIELD | 44000  | 0.90 | LED AREA LIGHT WITH SHIELD MOUNTED @ 20'<br>ARE-EHO-3M-12-E-UL-700-40K      |  |  |  |
| <b>@</b> — В   | 2                  | SINGLE           | 44000  | 0.90 | LED AREA LIGHT MOUNTED @ 20'<br>ARE-EHO-3M-12-E-UL-700-40K                  |  |  |  |
| □ C            | 5                  | WALL PACK        | 650    | 0.90 | WALL PACK, GRAY MANUFACTURED BY WAC MOUNTED<br>@ 14'; WP-LED227-30-AWK-GRAY |  |  |  |
| Ø D            | 17                 | CANOPY           | N/A    | 0.90 | LED 4" DOWN LIGHT MANUFACTURED BY MAXLITE<br>MOUNTED @ 10'; RR41127W        |  |  |  |
| <b>⊗</b> E     | 6                  | DECORATIVE       | N/A    | 0.90 | EXTERIOR GOOSENECK FIXTURE MANUFACTURED BY HI-LITE MFG, INC. MOUNTED @ 12'  |  |  |  |



NOTE: THIS DETAIL IS FOR BID AND BUDGETARY PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A FOUNDATION DESIGN PREPARED BY A QUALIFIED STRUCTURAL ENGINEER CONSIDERING LIGHTING MANUFACTURER REQUIREMENTS, LOCAL WIND LOADS AND SITE SPECIFIC SOIL PARAMETERS.

- SOME SITE CONDITIONS AND/OR LOCATIONS MAY REQUIRE VIBRATION DAMPENING
  MEASURES AS DETERMINED BY A STRUCTURAL ENGINEER.
   THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF THE INTENT TO MOUNT ANYTHING
- THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF THE INTENT TO MOUNT ANYTHING TO THE POLE, ASIDE FROM THE LIGHT FIXTURES, INCLUDING BUT NOT LIMITED TO CAMERAS, BANNERS, FLAGS, SIGNAGE, ETC. AS IT WILL IMPACT THE POLE AND FOUNDATION DESIGN.

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY



NG DATA

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SITE CIVIL AND CONSULTIN LAND SURVEYI PROGRAM MANAG LANDSCAPE ARCHIT SUSTAINABLE DE

REVISIONS

| REV  | DATE     | COMMENT            | DRAWN BY   |
|------|----------|--------------------|------------|
| KE V | DAIE     | COMMENT            | CHECKED BY |
| 1    | 02/10/20 | ZBA SPECIAL PERMIT | DJO        |
| ı    | 02/10/20 | & SITE PLAN REVIEW | JAB        |
|      |          |                    |            |
|      |          |                    |            |
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|      |          |                    |            |

Know what's below.

Call before you dig.

ALWAYS CALL 811
It's fast. It's free. It's the law.

PERMIT SET

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.: W181086
DRAWN BY: DJO
CHECKED BY: JAB
DATE: 01/16/2020
CAD I.D.: W181086-CVL-1

PROJECT:

PROPOSED SITE
PLAN DOCUMENTS

505



PROPOSED

DEVELOPMENT

888 ASHLEY BOULEVARD

BRISTOL COUNTY

NEW BEDFORD, MASSACHUSETTS

MAP #127C, LOT #134

BK.4155, PG.343

**BOHLER** 

352 TURNPIKE ROAD SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900 Fax: (508) 480-9080 www.BohlerEngineering.com

J.A. BERNARDINO

PROFESSIONAL ENGINEER

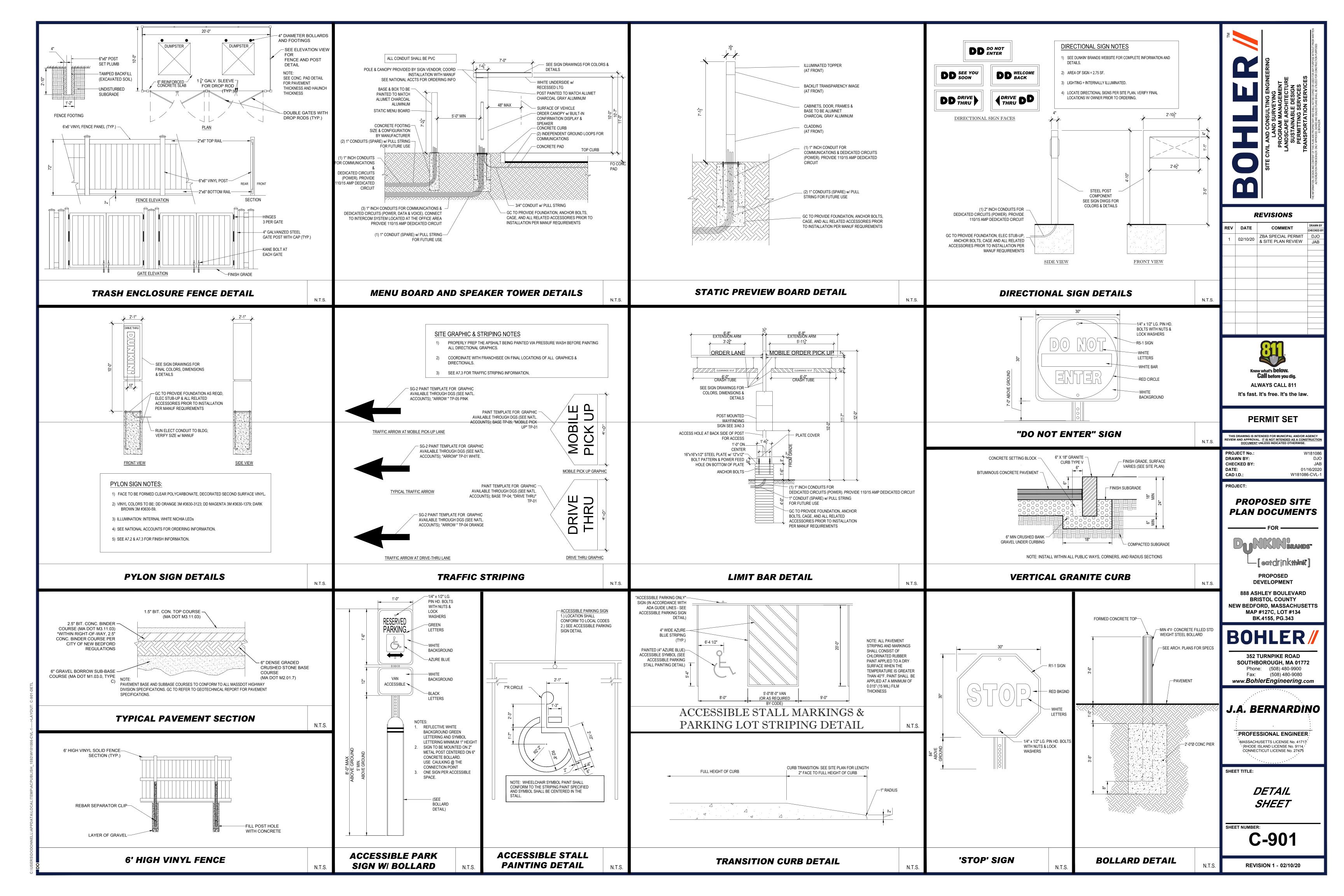
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RHODE ISLAND LICENSE No. 9114
CONNECTICUT LICENSE No. 27475

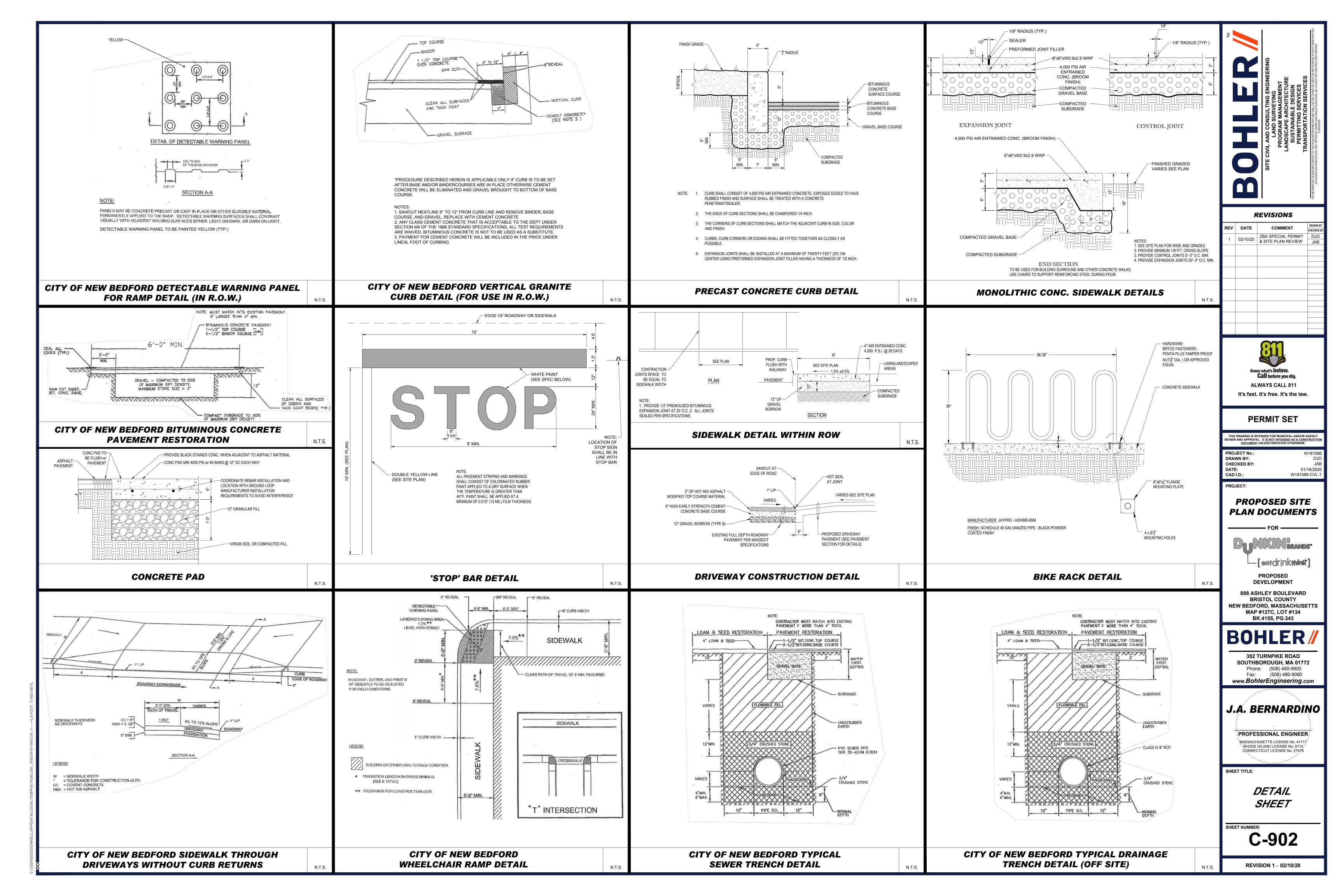
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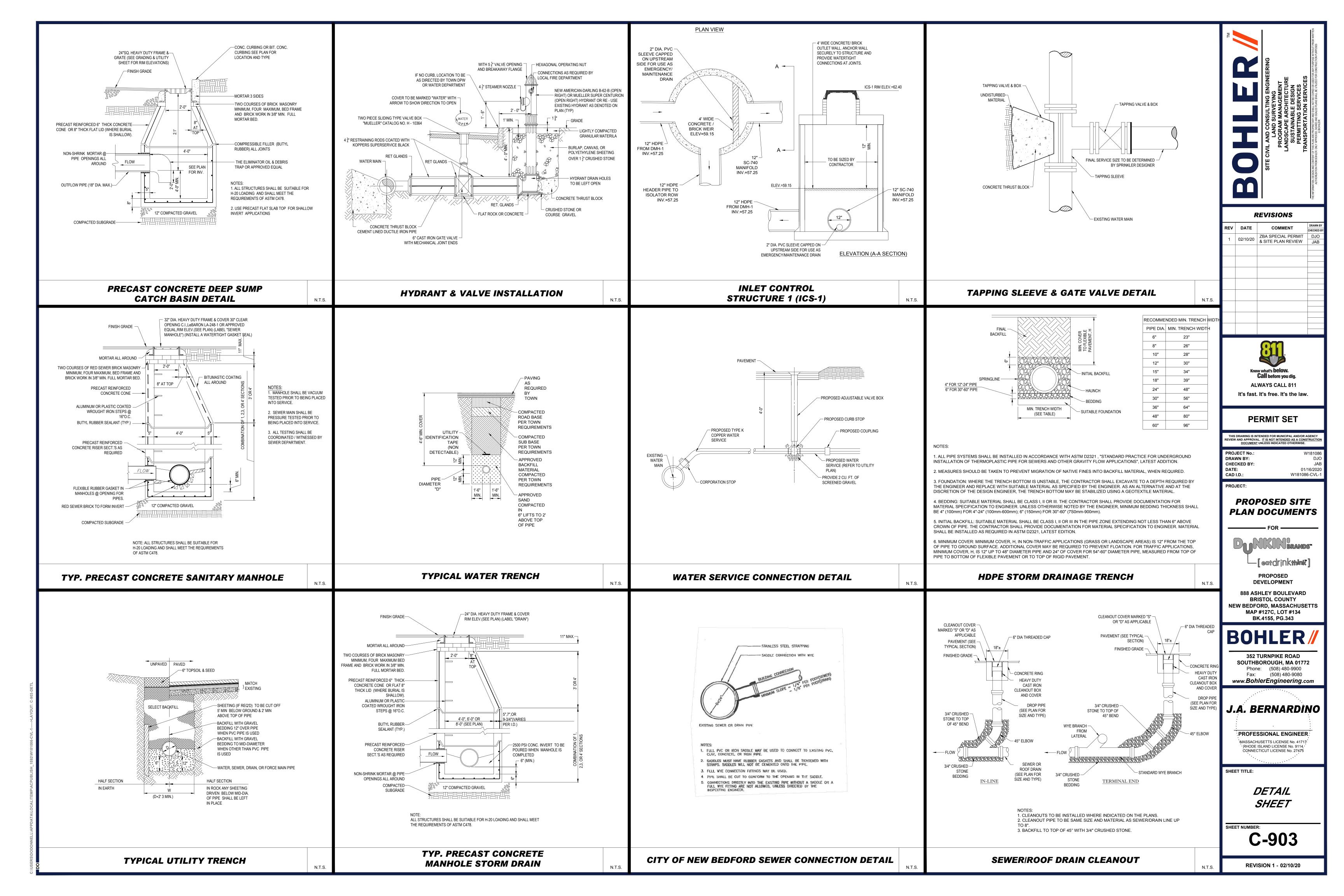
LIGHTING PLAN

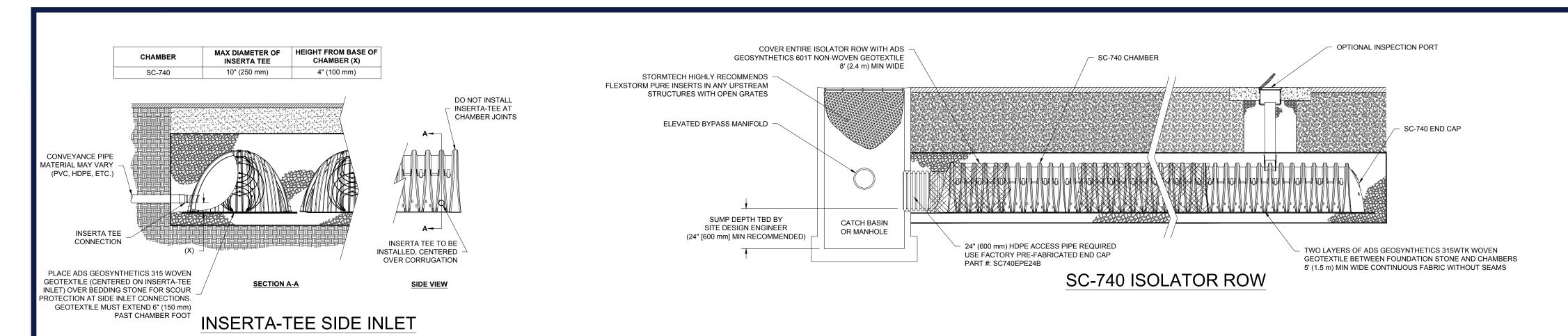
SHEET NUMBER:

C-703









#### CONCRETE COLLAR - 18" (450 mm) MIN WIDTH PAVEMENT CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS 12" (300 mm) NYLOPLAST INLINE DRAIN BODY W/SOLID HINGED COVER OR GRATE SOLID COVER: 1299CGC\* GRATE: 1299CGS CONCRETE SLAB 8" (200 mm) MIN THICKNESS - 6" (150 mm) SDR35 PIPE FLEXSTORM CATCH IT PART# 6212NYFX SC-740 CHAMBER WITH USE OF OPEN GRATE 6" (150 mm) INSERTA TEE PART# 6P26FBSTIP\* INSERTA TEE TO BE CENTERED ON CORRUGATION CREST \* THE PART# **2712AG6IPKIT** CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION

# SC-740 6" (150 mm) INSPECTION PORT

#### **INSPECTION & MAINTENANCE**

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
  - A. INSPECTION PORTS (IF PRESENT) A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON
  - MAINTENANCE LOG A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL) A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
  - B. ALL ISOLATOR ROWS B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
  - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

#### NOTES:

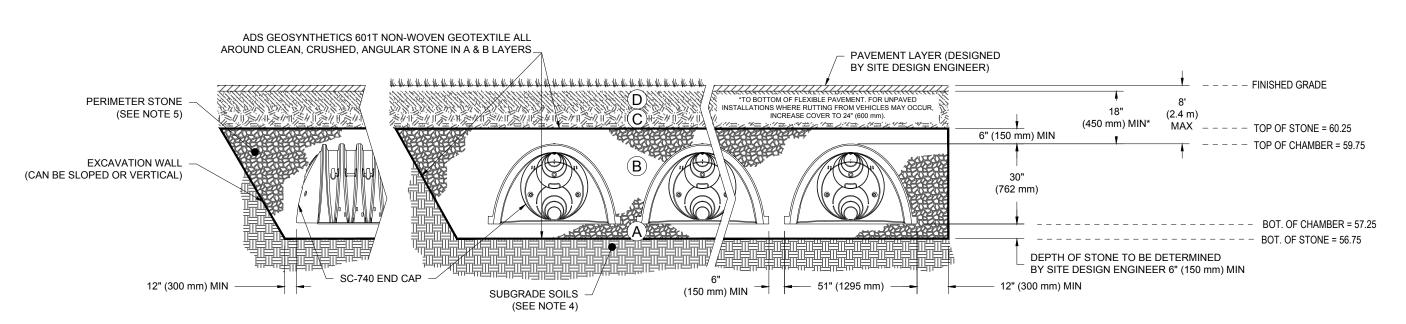
- 1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION
- 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS
- 3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION. EMBEDMENT. AND FILL MATERIALS.
- 4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- 5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

# ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

| MATERIAL LOCATION                                       |   | DESCRIPTION  | AASHTO MATERIAL<br>CLASSIFICATIONS  | COMPACTION / DENSITY<br>REQUIREMENT  |
|---|---|--|---|--|
| D OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED ENGINEER'S P |   | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER<br>ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT<br>SUBGRADE REQUIREMENTS.  | N/A   | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.  |
| С   | INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES,<br><35% FINES OR PROCESSED AGGREGATE.<br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU<br>OF THIS LAYER. | AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3  OR  AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| В   | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.  | CLEAN, CRUSHED, ANGULAR STONE  | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57  | NO COMPACTION REQUIRED.  |
| Α   | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.   | CLEAN, CRUSHED, ANGULAR STONE  | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57  | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>  |

PLEASE NOTE: 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, ANGULAR. ANGULAR NO. 4 (AASHTO M43) STONE".

STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



# SC-740 CROSS SECTION

# BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. SC-740 TECHNICAL SPECIFICATIONS

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF

\* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm).

THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT

12.2" (310 mm)

13.4" (340 mm)

51.0" X 30.0" X 85.4"

45.9 CUBIC FEET

74.9 CUBIC FEET

75.0 lbs.

\*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

6" (150 mm)

10" (250 mm)

85.4" (2169 mm) INSTALLED LENGTH -

<⇒ BUILD ROW IN THIS DIRECTION

OVERLAP NEXT CHAMBER HERE

(OVER SMALL CORRUGATION)

(1295 mm X 762 mm X 2169 mm)

18.5" (470 mm)

14.5" (368 mm

12.5" (318 mm)

9.0" (229 mm)

5.0" (127 mm)

0.5" (13 mm)

0.6" (15 mm)

0.7" (18 mm)

1.2" (30 mm)

1.3" (33 mm)

1.6" (41 mm)

0.1" (3 mm)

(1.30 m<sup>3</sup>)

(2.12 m<sup>3</sup>)

(33.6 kg)

→ 90.7" (2304 mm) ACTUAL LENGTH → →

NOMINAL CHAMBER SPECIFICATIONS

PRE-CORED END CAPS END WITH "PC"

PART#

SC740EPE06T / SC740EPE06TPC

SC740EPE06B / SC740EPE06BPC

SC740EPE08T /SC740EPE08TPC

SC740EPE08B / SC740EPE08BPC

SC740EPE10T / SC740EPE10TPC

SC740EPE10B / SC740EPE10BPC

SC740EPE12T / SC740EPE12TPC

SC740EPE12B / SC740EPE12BPC

SC740EPE15T / SC740EPE15TPC

SC740EPE15B / SC740EPE15BPC

SC740EPE18T / SC740EPE18TPC

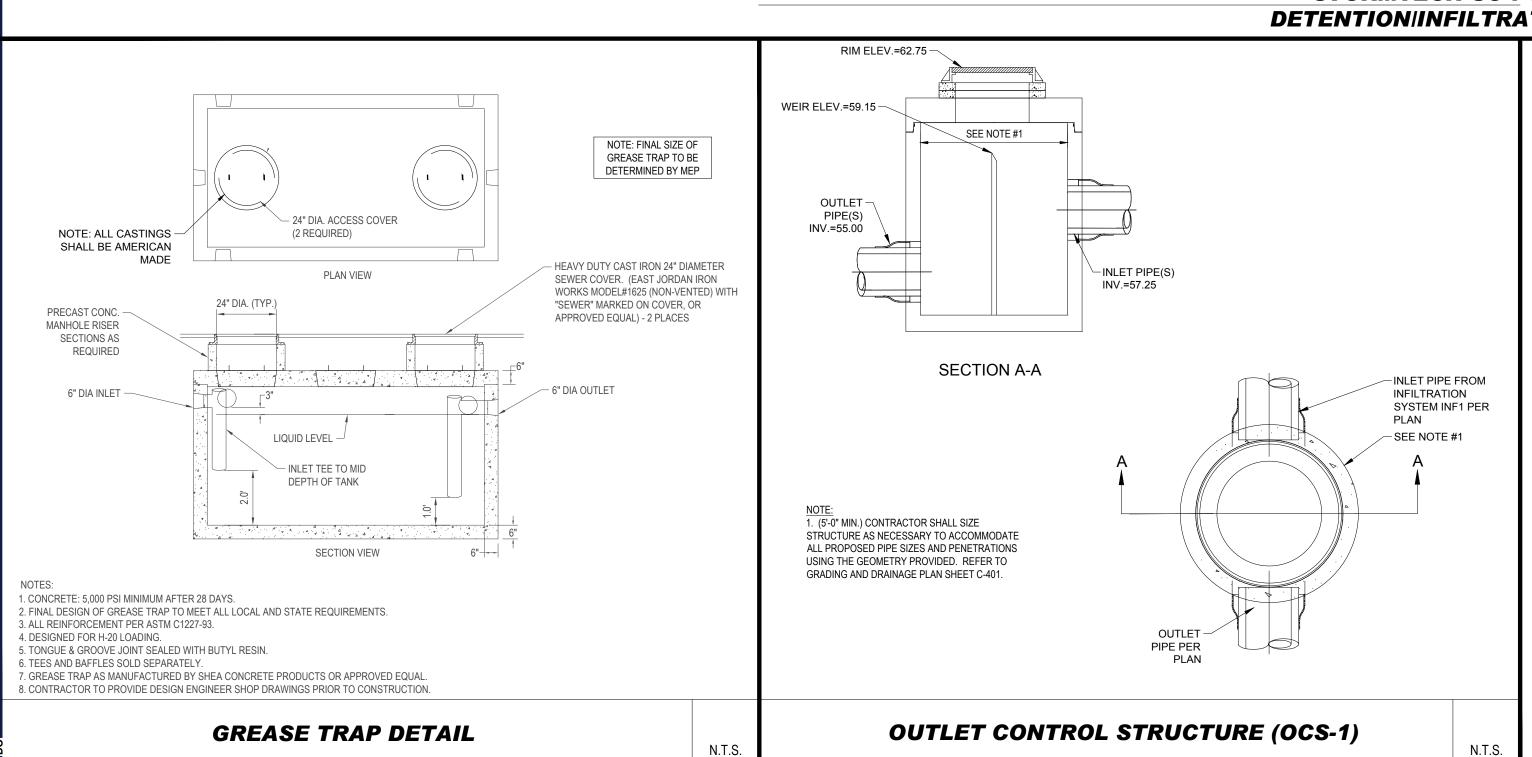
SC740EPE18B / SC740EPE18BPC

SIZE (W X H X INSTALLED LENGTH

MINIMUM INSTALLED STORAGE\*

CHAMBER STORAGE

STORMTECH SC-740 SUBSURFACE **DETENTION/INFILTRATION BASIN (BMP-1)** 



**PLAN DOCUMENTS DEVELOPMENT** 888 ASHLEY BOULEVARD

**REVISIONS** 

02/10/20 & SITE PLAN REVIEW

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W181086-CVL-

PROJECT No.:

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DRAWN BY:

CAD I.D.:

PROJECT:

COMMENT

ZBA SPECIAL PERMIT

REV DATE

**BRISTOL COUNTY NEW BEDFORD, MASSACHUSETTS MAP #127C, LOT #134** BK.4155, PG.343

352 TURNPIKE ROAD **SOUTHBOROUGH, MA 01772** Phone: (508) 480-9900 Fax: (508) 480-9080 www.BohlerEngineering.com

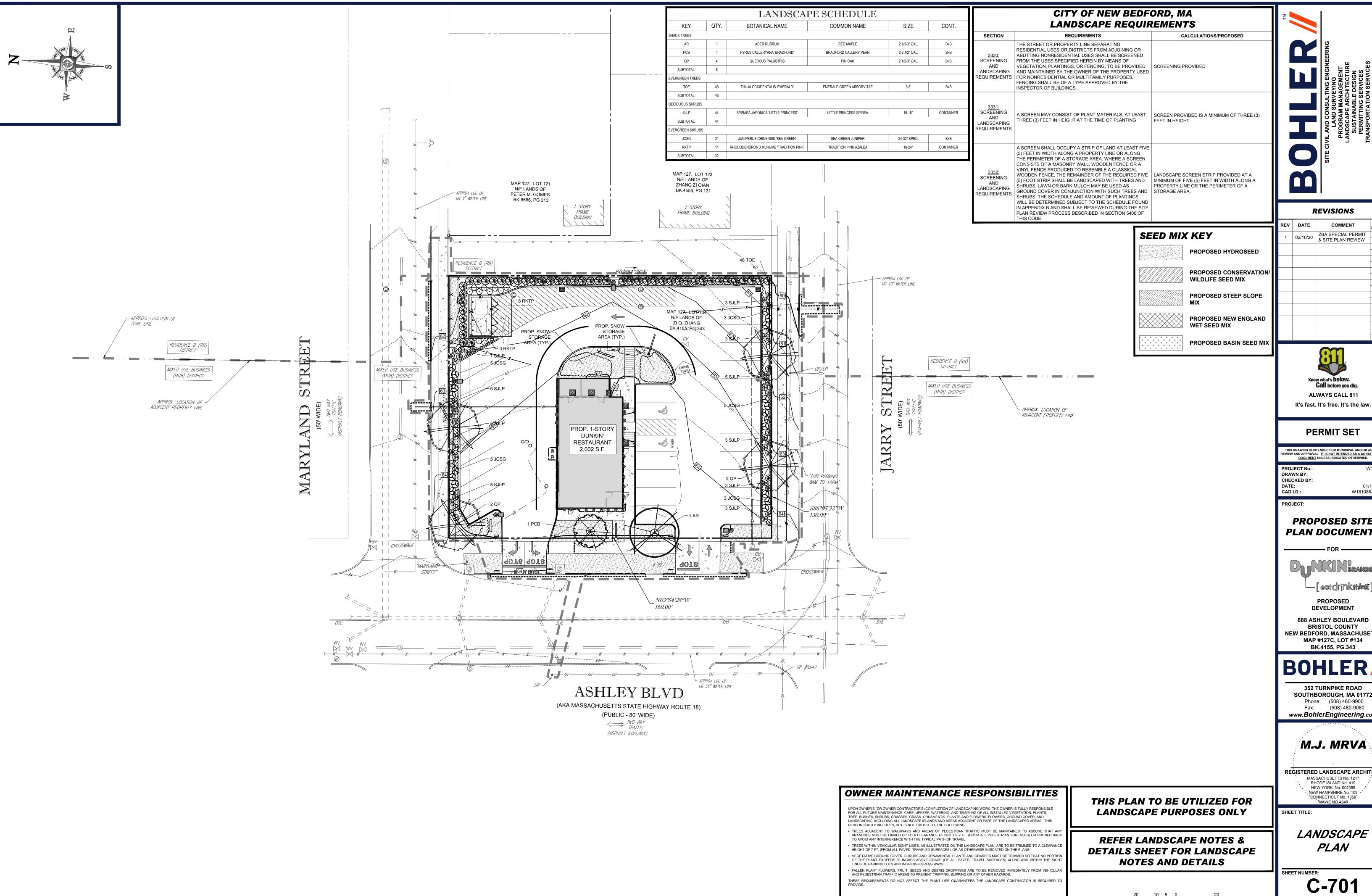
# J.A. BERNARDINO

:PROFESSIONAL ENGINEER MASSACHUSETTS LICENSE No. 41717 RHODE ISLAND LICENSE No. 9114 CONNECTICUT LICENSE No. 27475

SHEET TITLE:

**DETAIL** 

C-904



**REVISIONS** 

| _ | REV | REV DATE COMMENT | COMMENT            |        |
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|   | KEV | DATE             | COMMENT            | CHECKE |
|   | 1   | 02/10/20         | ZBA SPECIAL PERMIT | DJ     |
|   | '   | 02/10/20         | & SITE PLAN REVIEW | JA     |
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PROJECT No.: DRAWN BY: W181086-LND-1

PROJECT:

PROPOSED SITE **PLAN DOCUMENTS** 



PROPOSED

DEVELOPMENT

888 ASHLEY BOULEVARD **BRISTOL COUNTY NEW BEDFORD, MASSACHUSETTS** MAP #127C, LOT #134 BK.4155, PG.343

**352 TURNPIKE ROAD** SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900 Fax: (508) 480-9080 www.BohlerEngineering.com

M.J. MRVA

REGISTERED LANDSCAPE ARCHITECT MASSACHUSETTS No. 1217 RHODE ISLAND No. 419 NEW HAMPSHIRE No. 109

CONNECTICUT No. 1359 MAINE NO.4248

SHEET TITLE:

LANDSCAPE PLAN

C-701

#### LANDSCAPE SPECIFICATIONS

#### . SCOPE OF WORK:

- 1.1. THE LANDSCAPE 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
- 2.1. GENERAL ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT
- 2.2. TOPSOIL NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY
- 2.3. LAWN ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM 6" THICK LAYER OF TOPSOIL. OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED ON THE LANDSCAPE PLAN
- 2.3.1. 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 LANDSCAPE PLAN AND/OR LANDSCAPE PLAN NOTES /DETAILS.
- 2.5. FERTILIZER FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS 2.5.1. SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE
- SO THAT IT CAN BE KEPT DRY PRIOR TO USE 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
- 2.6. PLANT MATERIAL

SOIL LABORATORY

- 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 THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN)
- IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL. 2.6.2. 2.6.3. 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,
- 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. 2.6.8. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL

#### GENERAL WORK PROCEDURES

- 3.1. 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
- 3.2. 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.
- 4.1. 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
- 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
- 4.3. 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
- 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 AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
- 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 LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY
- 5.4. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE

#### SOIL MODIFICATIONS

- 6.1. 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
- LANDSCAPE 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 LANDSCAPE 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
- 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
- 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

- 7.1. UNLESS OTHERWISE CONTRACTED. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE
- 7.2. LANDSCAPE 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**
- 7.4. 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 6" THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING 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 MATERIALS SECTION ABOVE.
- 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 SOIL CONDITIONER/FERTILIZER
- 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP OR APPROVED NITROGEN FERTILIZER 8.5. 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, LANDSCAPE 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.

- 9.3. 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.
- 9.4. 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
- 9.5. 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
- 9.6. 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 15 TO DECEMBER 15
- LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1
- 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
- 9.7. 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 PLANTING SEASON:
  - ACER RUBRUM PLATANUS X ACERIFOLIA BETULA VARIETIES POPULUS VARIETIES **CARPINUS VARIETIES** PRUNUS VARIETIES CRATAEGUS VARIETIES PYRUS VARIETIES KOELREUTERIA QUERCUS VARIETIES LIQUIDAMBAR STYRACIFLUA TILIA TOMENTOSA
- 9.8. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:

ZELKOVA VARIETIES

1 PART COMPOSTED COW MANURE BY VOLUME

LIRIODENDRON TULIPIFERA

3 PARTS TOPSOIL BY VOLUME

1 PART PEAT MOSS

- 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS: 9.8.4.1.
- 2 TABLETS PER 1 GALLON PLANT 3 TABLETS PER 5 GALLON PLANT
- 4 TABLETS PER 15 GALLON PLANT
- 9.8.4.4. LARGER PLANTS: 2 TABLETS PER ½" CALIPER OF TRUNK
- 9.9. FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER
- 9.10. 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.
- 9.11. ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE.
- 9.12. 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
- 9.13. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS
- 9.14. 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.
- 9.15. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.
- 10. TRANSPLANTING (WHEN REQUIRED) 10.1. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.
- 10.2. 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.
- 10.3. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
- 10.4. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE. 10.5. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
- 10.6. F 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

- 11.1. 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 AL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.
- 11.2. 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
- 11.3. 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.

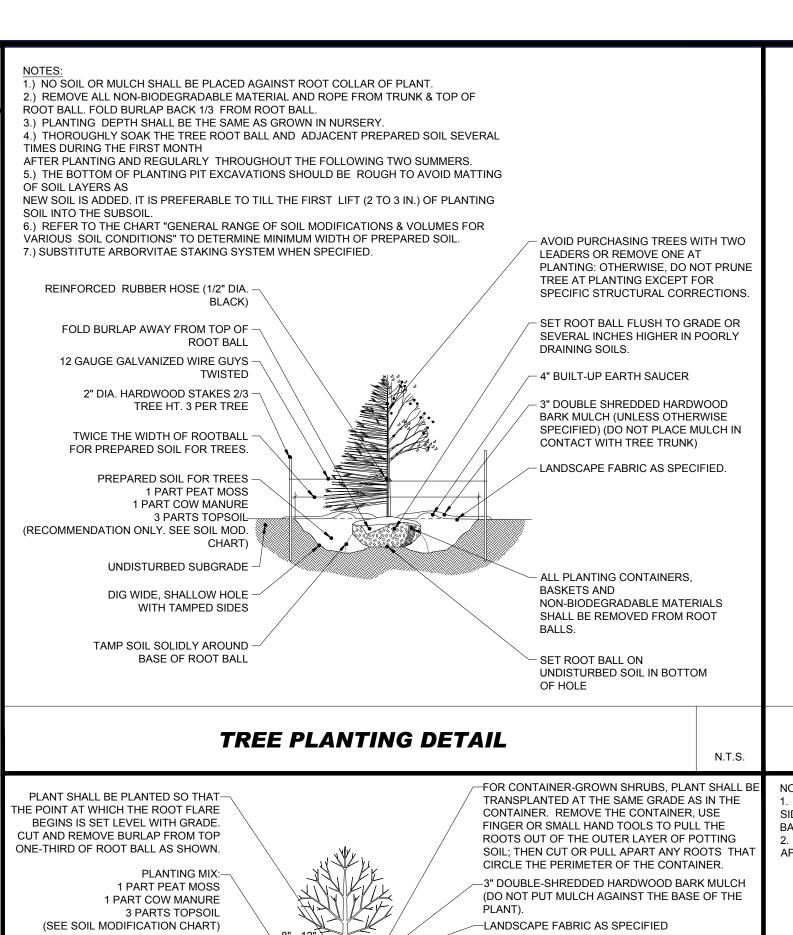
#### 12. GUARANTEE

- 12.1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF 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 AUTHORIZE
- 12.2. 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
- 12.3. TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION. WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASI
- 12.4. LAWNS SHALL BE MAINTAINED 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 FRODED OR BARE AREAS CLEANUP
- 13.1. 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.
- 13.2. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE

#### 14. MAINTENANCE (ALTERNATIVE BID):

OWNER/OPERATOR.

14.1. A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD ENSURES TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPING HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED, THE OWNER/OPERATOR MAY REQUEST THAT BIDDERS SUBMIT AN ALTERNATE MAINTENANCE BID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL ENCOMPASS ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MANICURED TO THE APPROVAL OF THE



24" MINIMUM

SHRUB PLANTING DETAIL

1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL

1/2 LB/1000 SQ FT

1 LB/1000 SO FT

1/2 LB/1000 SQ FT

1/2 LB/1000 SQ FT

2 LB/1000 SQ FT

30 LB/1000 SQ FT

IRRIGATE SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY

**HYDROSEED SPECIFICATIONS** 

1 GAL/800 GAL.

35 LB/800 GAL

4. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO

SPECIFIED ARBORTIE GREEN (OR WHITE)

STAKING AND GUYING MATERIAL IS TO BE

FLAT WOVEN POLYPROPYLENE MATERIAL.

3/4" WIDE, 900 LB. BREAK STRENGTH.

ARBORTIE SHALL BE FASTENED TO

STAKES IN A MANNER WHICH PERMITS

TREE MOVEMENT AND SUPPORTS THE

INSTALLATION

ARBORTIE

TIE A SIMPLE KNOT 18-24"

FROM EITHER END OF THE

DIAMETER OF THE TREE)

(DEPENDING ON THE

2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND

DEBRIS LARGER THAN 2" DIAMETER.

INSTRUCTIONS.

PERENNIAL RYEGRASS

KENTUCKY BLUEGRASS

SPREADING FESCUE

FERTILIZER (16.32.16)

TANK FIBER MULCH

TREE.

TANK TACKIFIER

3. SEEDING RATES:

RED FESCUE

LIQUID LIME

MIN OF THREE (3)

STAKES TO EACH

BEFORE PLANTING, ADD 3" TO 4" OF-

RECYCLED YARD WASTE TO BED AND

TILL INTO TOP 6" OF PREPARED SOIL.

WELL-COMPOSTED LEAVES AND

SOIL SURFACE ROUGHENED-

TO BIND WITH NEW SOIL.

FINISHED GRADE

-UNDISTURBED SUBGRADE

THIS FND WRAPPED

KNOT IS TIGHTENED

THIS END STEP 2:

TO STAKE

AROUND TREE AFTER

WRAP THIS END AROUND

BELOW THE KNOT THAT

WAS TIED IN STEP 1.

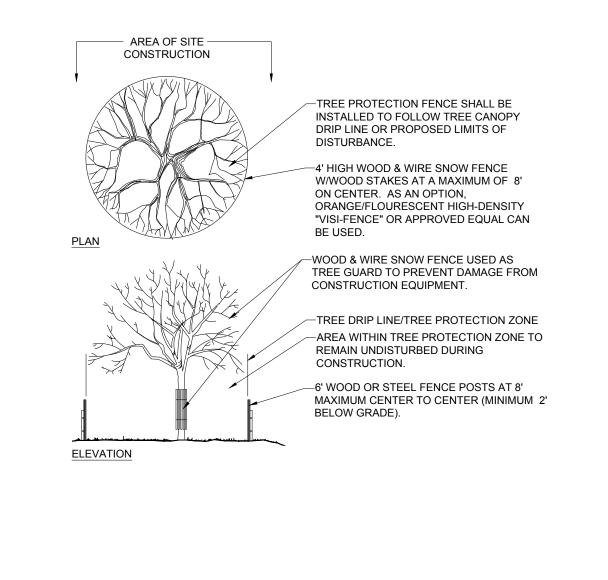
TREE BEGIN A NEW KNO

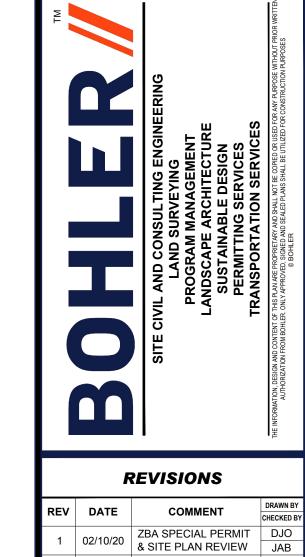
ARBORTIE STAKING DETAIL

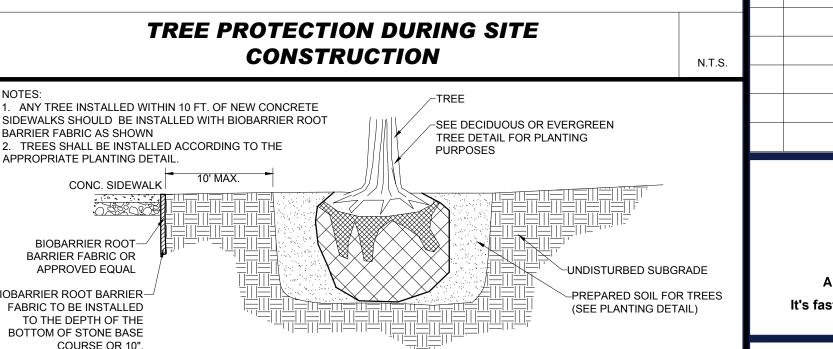
-PLACE SHRUB ON FIRM SOIL IN BOTTOM OF HOLE

-WHEN APPROPRIATE, PLANT MULTIPLE

SHRUBS IN CONTINUOUS PLANTING HOLE.









PROJECT No.

**CHECKED BY** 

DRAWN BY:

CAD I.D.

PROJECT:

PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENC EVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUC

DOCUMENT UNLESS INDICATED OTHERWISE

PROPOSED SITE

**PLAN DOCUMENTS** 

**PROPOSED** 

**DEVELOPMENT** 

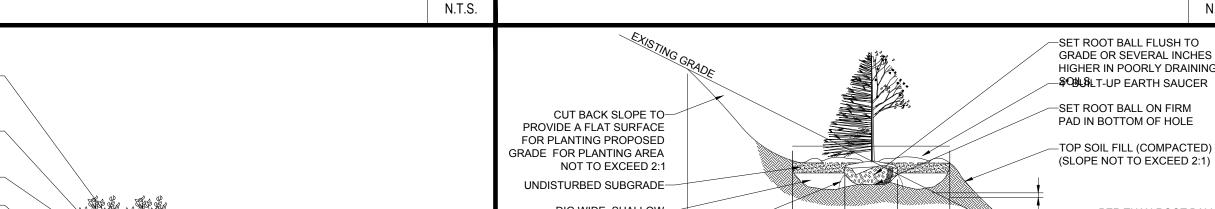
888 ASHLEY BOULEVARD

**BRISTOL COUNTY** 

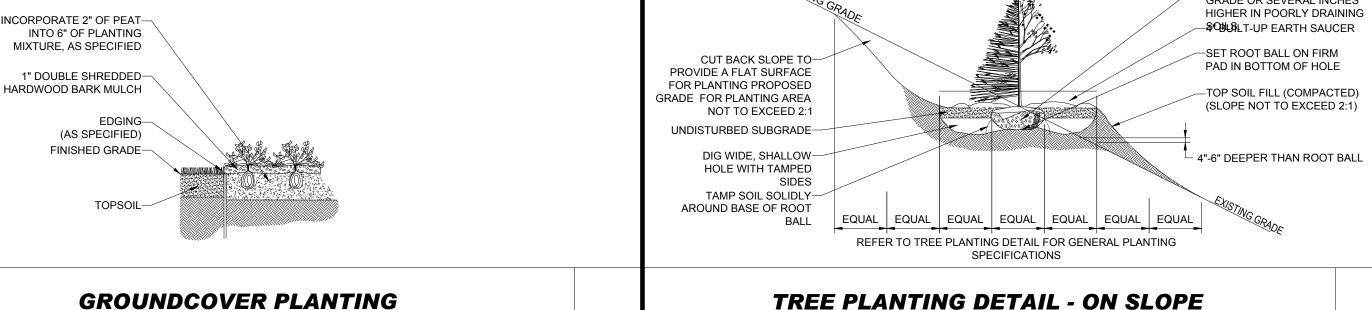
**NEW BEDFORD, MASSACHUSETTS** 

01/16/20

W181086-LND



WHICHEVER IS GREATER



N.T.S.

THIS FND

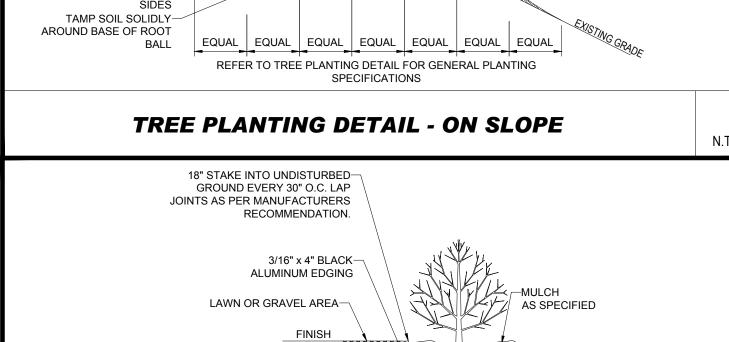
TO STAKE

FOLLOW MOTION OF ARBORTIE

A AND B AT THE SAME TIME.

AS SHOWN, FINISHING THE KNOT

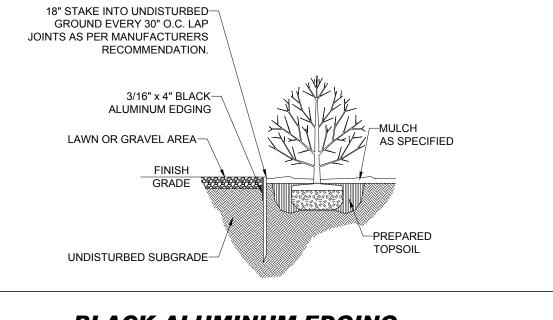
BY PULLING TIGHTLY ON POINTS

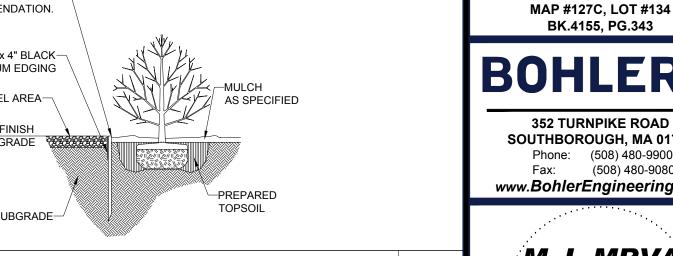


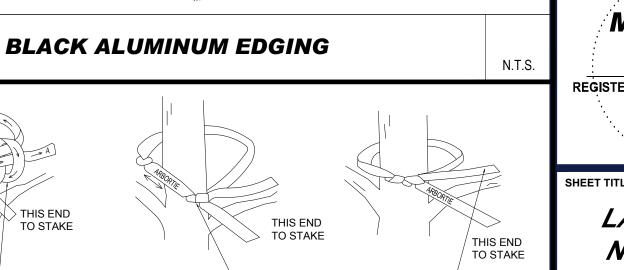
STFP 4

ANCHOR.

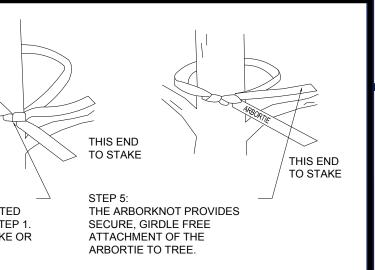
**BIOBARRIER ROOT BARRIER DETAIL** 

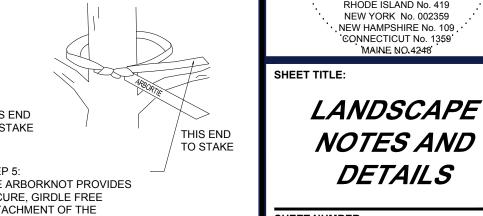






STFP 5 SLIDE KNOT JUST COMPLETED THE ARBORKNOT PROVIDES UP TO THE KNOT TIED IN STEP 1. SECURE, GIRDLE FREE FASTEN FREE END TO STAKE OR ATTACHMENT OF THE





C-702

**REVISION 1 - 02/10/20** 

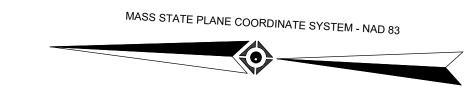
352 TURNPIKE ROAD **SOUTHBOROUGH, MA 01772** Phone: (508) 480-9900 Fax: (508) 480-9080 www.BohlerEngineering.com

M.J. MRVA

REGISTERED LANDSCAPE ARCHITECT MASSACHUSETTS No. 1217 RHODE ISLAND No. 419

, NEW HAMPSHIRE No. 109 'CONNECTICUT No. 1359 MAINE NO.4248

**NOTES AND DETAILS** 





LOCUS MAP © 2013 ESRI WORLD STREET MAPS NOT TO SCALE

SCHEDULE "A"

LEGEND

WATER VALVE

OVERHEAD WIRES

UTILITY POLE/LIGHT POLE

GAS VALVE

UTILITY POLE

BOLLARD

UG UNDER GROUND

CLF CHAIN LINK FENCE

DC DEPRESSED CURB

EDGE OF CONCRETE

*EOP* EDGE OF PAVEMENT

LSA LANDSCAPED AREA

W WMH WATER MANHOLE

DEPRESSED CURB

DMH DRAINAGE/STORM MANHOLE

SANITARY/SEWER MANHOLE

TELEPHONE MANHOLE

CATCH BASIN OR INLET

TREE & TRUNK SIZE

PARKING SPACE COUNT

PAINTED ARROWS

(TYP) TYPICAL

× 123.45

× TC 123.45

EXISTING SPOT ELEVATION

EXISTING TOP OF CURB ELEVATION

EXISTING TOP OF WALL ELEVATION EXISTING BOTTOM OF WALL ELEVATION EXISTING FINISHED FLOOR ELEVATION

APPROX. LOC. UNDERGROUND GAS LINE

EXISTING GUTTER ELEVATION

TWO PARCELS OF LAND, WITH ANY BUILDINGS THEREON, IN NEW BEDFORD, BRISTOL COUNTY, COMMONWEALTH OF MASSACHUSETTS. BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT FORMED BY THE INTERSECTION OF THE EAST LINE OF ASHLEY BOULEVARD (FORMERLY BOWDITCH STREET) WITH THE NORTH LINE OF JARRY STREET;

THENCE NORTHERLY IN SAID CAST LINE OF ASHLEY BOULEVARD ONE HUNDRED TWENTY (120) FEET; THENCE EASTERLY BY LOT NO. 269 ON PLAN HEREINAFTER MENTIONED NINETY (90) FEET: THENCE NORTHERLY BY SAID LOT NO. 269 (40) FEET TO THE SOUTH LINE OF MARYLAND STREET; THENCE EASTERLY IN SAID SOUTH LINE OF MARYLAND STREET FORTY (40) FEET TO LOT NO. 272 ON SAID PLAN;

THENCE WESTERLY IN SAID NORTH LINE OF JARRY STREET ONE HUNDRED THIRTY (130) FEET TO THE POINT OF

CONTAINING SIXTY-THREE AND 16/100 (63.16) SQUARE RODS, MORE OR LESS.

BEING SHOWN AS LOTS #270, 271, 278, 279 AND 280 ON PLAN OF BOULEVARD TERRACE FILED IN BRISTOL COUNTY S.D. REGISTRY OF DEEDS IN PLAN BOOK 8, PAGE 4.

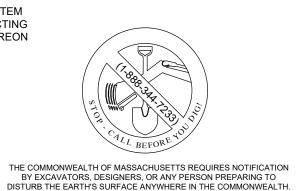
WESTERLY BY ASHLEY BOULEVARD, FORTY (40) FEET; NORTHERLY BY MARYLAND STREET, NINETY (90) FEET; EASTERLY BY LOT #271 ON SAID PLAN, FORTY (40) FEET; SOUTHERLY BY LOT #270 ON SAID PLAN, NINETY (90) FEET.

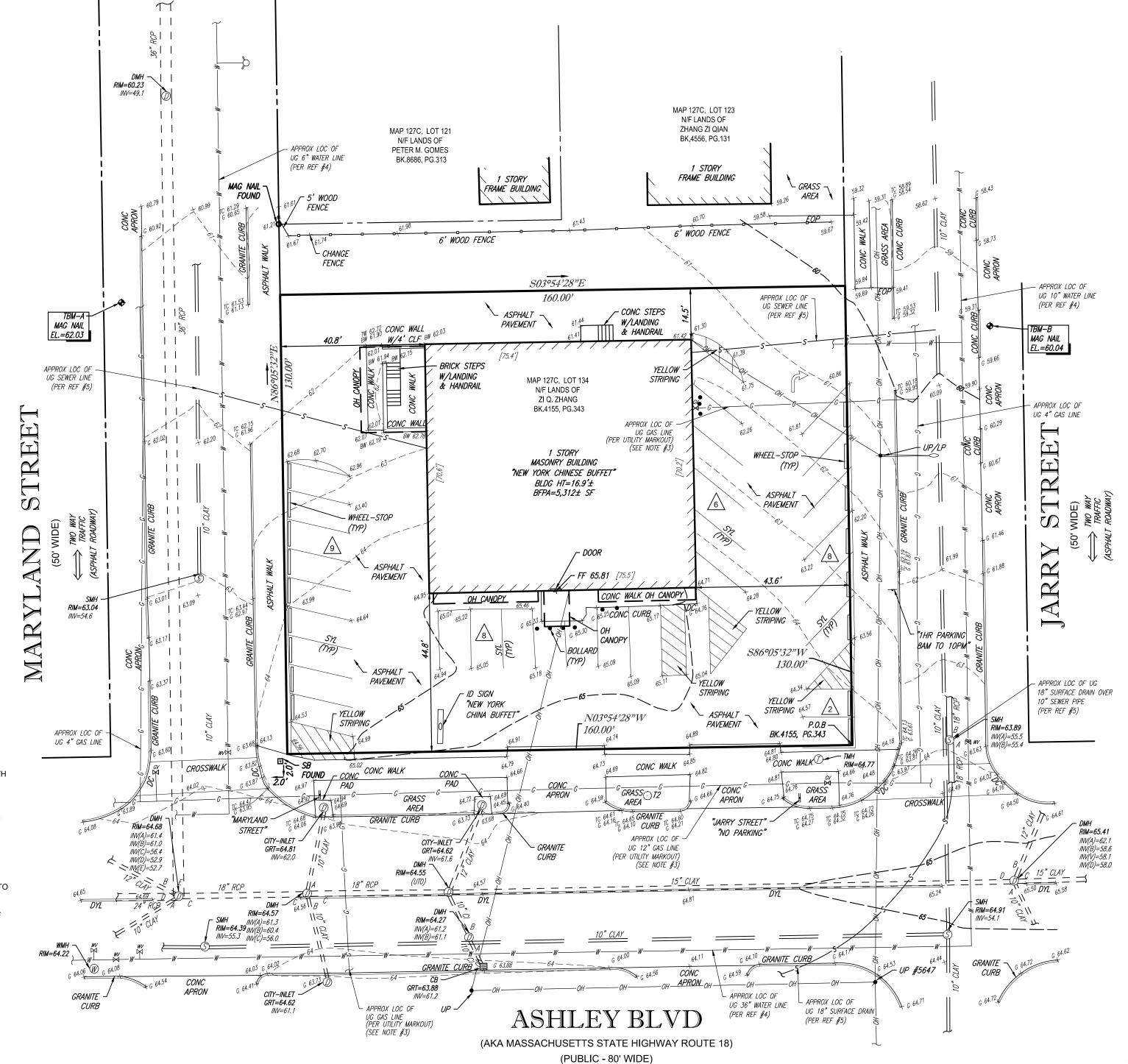
CONTAINING 13.22 SQUARE RODS, MORE OR LESS.

BEING SHOWN A" LOT #269 ON PLAN OF BOULEVARD TERRACE FILED IN SAID REGISTRY OF DEEDS IN PLAN BOOK

THE FOLLOWING COMPANIES WERE NOTIFIED BY MASSACHUSETTS ONE-CALL SYSTEM (1-888-344-7233) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. REQUEST NUMBER: 20194704678

UTILITY COMPANY AT&T TRANSMISSION 1-800-288-2020 1-800-922-0204 EVERSOURCE ELECTRIC 1-800-286-2000 1-800-592-2000 NSTAR GAS ESI ADVANCED WIRELESS NETWORKS, LLC 1-972-422-9700 1-800-934-6489 COMCAST OPENCAPE CORPORATION 1-508-362-2224





 $\iff$  TWO WAY TRAFFIC

(ASPHALT ROADWAY)

GRAPHIC SCALE

(IN FEET)

1 inch = 80 ft.

- 1. PROPERTY KNOWN AS LOT 134 AS SHOWN ON THE CITY OF NEW BEDFORD, BRISTOL COUNTY, COMMONWEALTH OF MASSACHUSETTS; MAP NO. 127C.
- 2. AREA = 20,800 SQUARE FEET OR 0.478 ACRES
- 3. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR
- 4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
- 5. THIS SURVEY WAS PREPARED WITH REFERENCE TO A COMMITMENT FOR TITLE INSURANCE PREPARED BY COMMONWEALTH LAND TITLE INSURANCE COMPANY, HAVING A COMMITMENT NO. 032586.TBD. WITH AN EFFECTIVE DATE OF 2020, WITH EXCEPTIONS 1 THRU 5 & 12 APPEARING IN SCHEDULE B - SECTION 2, NONE OF WHICH ARE SURVEY RELATED, AND HAVE NOT BEEN COMMENTED ON AS A PART OF THIS SURVEY.
- 6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.) PER REF. #2.
- ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS) TAKEN AT THE TIME OF THE FIELD

TEMPORARY BENCH MARKS SET: TBM-A: MAG NAIL SET IN SIDEWALK AT ELEVATION 62.03.

# TBM-B: MAG NAIL SET IN SIDEWALK AT ELEVATION 60.04.

PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.

- 8. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
- 9. PROPERTY HAS 33 TOTAL PARKING SPACES, NONE OF WHICH ARE HANDICAPPED SPACES.
- 10. THE PROPERTY DESCRIBED IN THE TITLE COMMITMENT AS EXHIBIT "A" IS THE SAME AS SHOWN ON THE

#### REFERENCES:

- 1. THE TAX ASSESSOR'S MAP OF CITY OF NEW BEDFORD, BRISTOL COUNTY, MAP 127C.
- 2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, BRISTOL COUNTY, MASSACHUSETTS (ALL JURISDICTIONS) PANEL 391 OF 550," COMMUNITY-PANEL NUMBER 255216 0391 G, MAP REVISED: JULY 16, 2014.

1-14-2020

1"=20'

DWG. NO.

OF 1

03-180108

- 3. MAP ENTITLED "PLAN OF BOULEVARD TERRACE NEW BEDFORD MASS" RECORDED IN THE SOUTH BRISTOL COUNTY REGISTRY OF DEEDS AS PLAN BOOK 8 PAGE 4.
- 4. WATER MAP 127C PROVIDED BY THE CITY OF NEW BEDFORD ENGINEERING DEPT.
- 5. SEWER MAPPING PROVIDED BY THE CITY OF NEW BEDFORD ENGINEERING DEPT.
- 6. GAS MAP DATED DECEMBER 12, 2019 PROVIDED BY EVERSOURCE.

THIS SURVEY IS CERTIFIED TO: DALY DENNEY GROUP LLC COMMONWEALTH LAND TITLE INSURANCE COMPANY BOWDITCH & DEWEY, LLP YEARLY GRIND II REALTY, LLC

BANK RHODE ISLAND, ITS SUCCESSORS AND ASSIGNS ATIMA

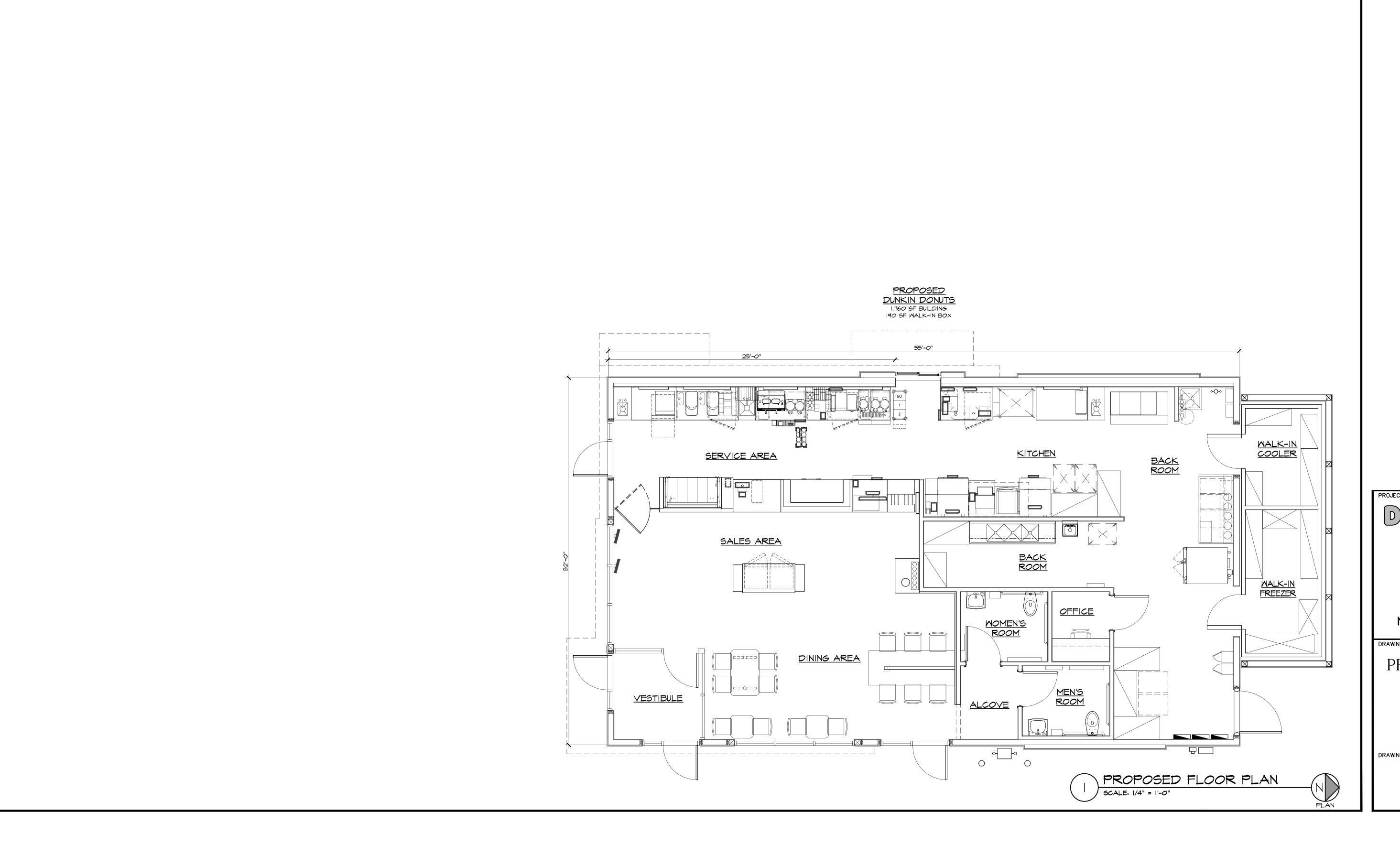
GERRY L. HOLDRIGHT, PLS

MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

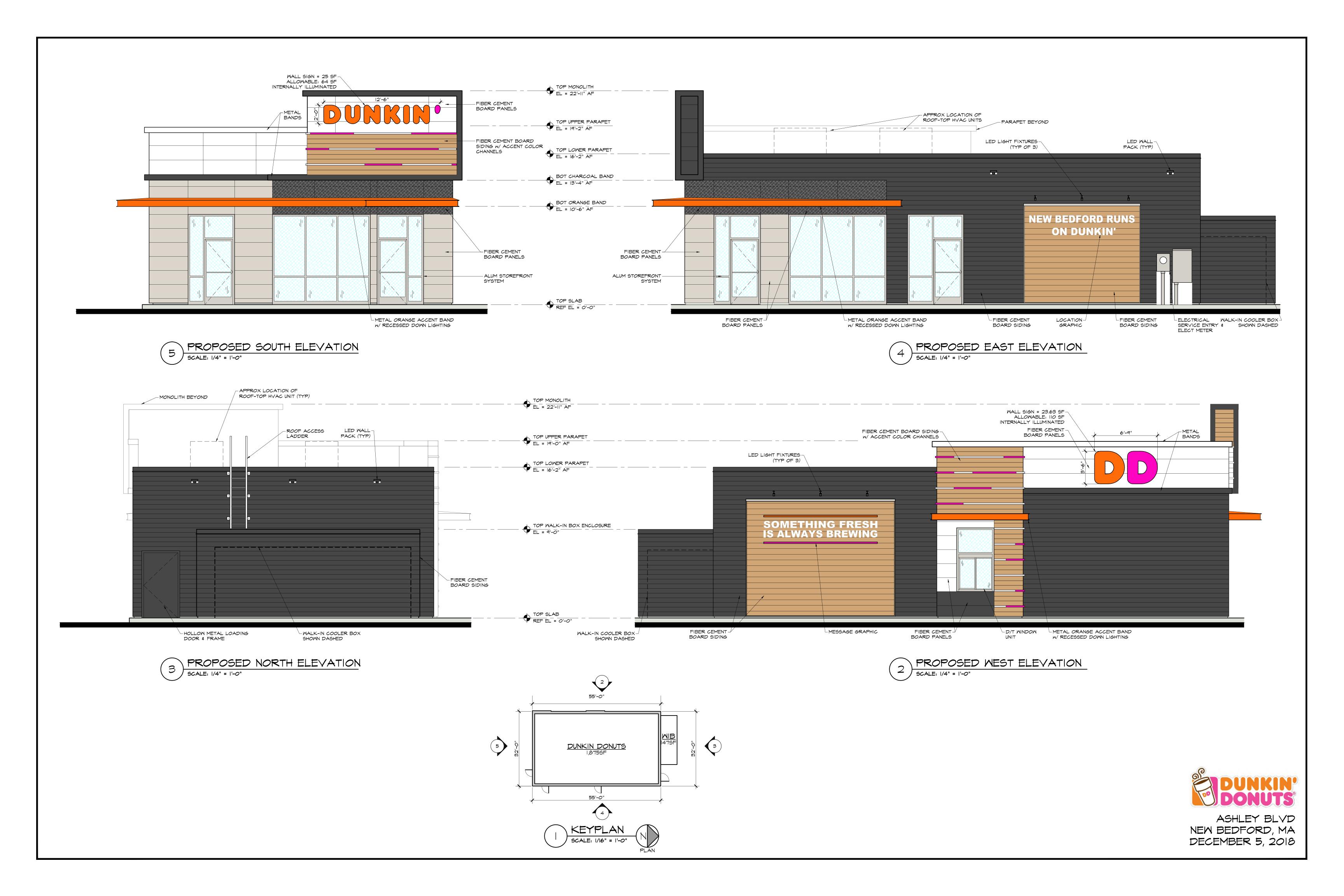
| IIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY  N WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH THE  16 MINIMUM STANDARD DETAIL REQUIREMENTS FOR  | 11-20-19                | ALTA/NSPS LAND TITLE SURVEY  |
|---|-------------------------|--|
| TA/NSPS LAND TITLE SURVEYS", JOINTLY ESTABLISHED AND<br>OOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(A),<br>9, 11, 13 & 14 OF TABLE A THEREOF. THE FIELDWORK WAS<br>OMPLETED ON NOVEMBER 20, 2019. | FIELD BOOK NO. 19-19-MA | DALY KENNEY GROUP LLC 888 ASHLEY BOULEVARD LOT 134, MAP 127C   |
| OT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED TH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL   | FIELD BOOK PG. 19-20    | CITY OF NEW BEDFORD, BRISTOL COUNTY COMMONWEALTH OF MASSACHUSETTS  |
|   | FIELD CREW<br>B.S.B.    | CONTROL POINT A S S O C I A T E S, I N C.  ALBANY, NY 5182175010 CHALFONT, PA 2157129800   |
|   | DRAWN:<br>A.J.D.        | 352 TURNPIKE ROAD MANHATTAN, NY 6467800411<br>SOUTHBOROUGH, MA 01772 MT LAUREL, NJ 6098572099<br>508.948.3000 - 508.948.3003 FAX WARREN, NJ 9086680099 |

REVIEWED:

J.R.Z.



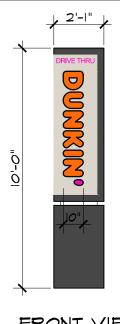




#### SIGN CODE:

I SF SIGN AREA = I LINEAR FT FRONTAGE SIGN SHALL NOT EXCEED 25 SF IN AREA IO'-O" MAX FROM GROUND TO BOT OF SIGN I5'-O" MAX FROM GROUND TO TOP OF SIGN

| SIGN SCHEDULE |            |                           |         |       |  |  |
|---------------|------------|---------------------------|---------|-------|--|--|
| QTY           | LOCATION   | OVERALL DIMENSIONS        | LETTERS | AREA  |  |  |
| 1             | PYLON SIGN | 2'-1"L × 10'-0"H × 2'-1"D | 10" H   | 25 SF |  |  |





FRONT VIEW

SIDE VIEW

# PROPOSED PYLON SIGN

SCALE: 1/4"=1'-0"





NOVEMBER 12, 2018



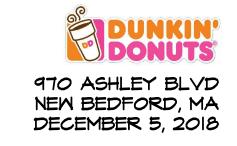
#### PROPOSED SOUTH ELEVATION

SCALE: 1/8"=1'-0"

#### PROPOSED EAST ELEVATION

SCALE: 1/8"=1'-0"











B



C



D



E

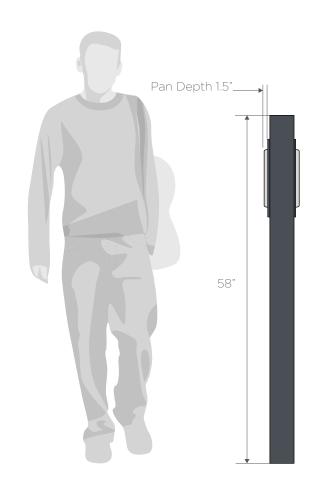


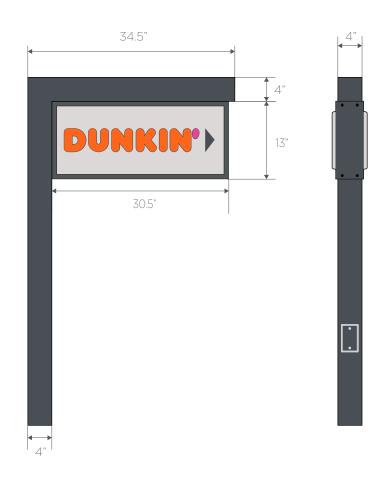
F



G







| PMS              | Vinyl / Paint |  |
|------------------|---------------|--|
| PMS 165          | 3M #3630-3123 |  |
| PMS 219          | 3M #3630-1379 |  |
| PMS 7540         | 3M #-220-41   |  |
| PMS COOL GRAY 1C |               |  |

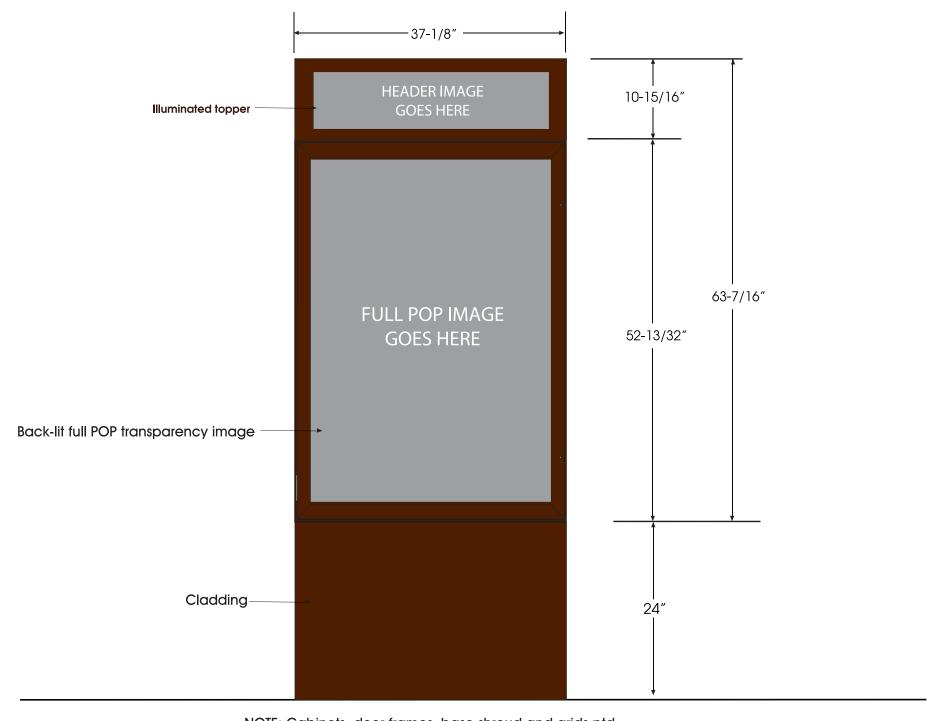
The intent of this drawing is to show a conceptual representation of the proposed signage. Due to variations in printing devices and substrates the finished product may differ sightly from drawings

**DIRECTIONAL SIGN - Fabrication / Install Details** 

**Date:** 10/04/2018 **Scale:** 1/16" **Drawn:** P.Charboneau

DD-SS-DS-01 DRAWING NAME:

**DUNKIN'** 



NOTE: Cabinets, door frames, base shroud and grids ptd.

Benjamin Moore 2116-10 Night Shade semi-gloss

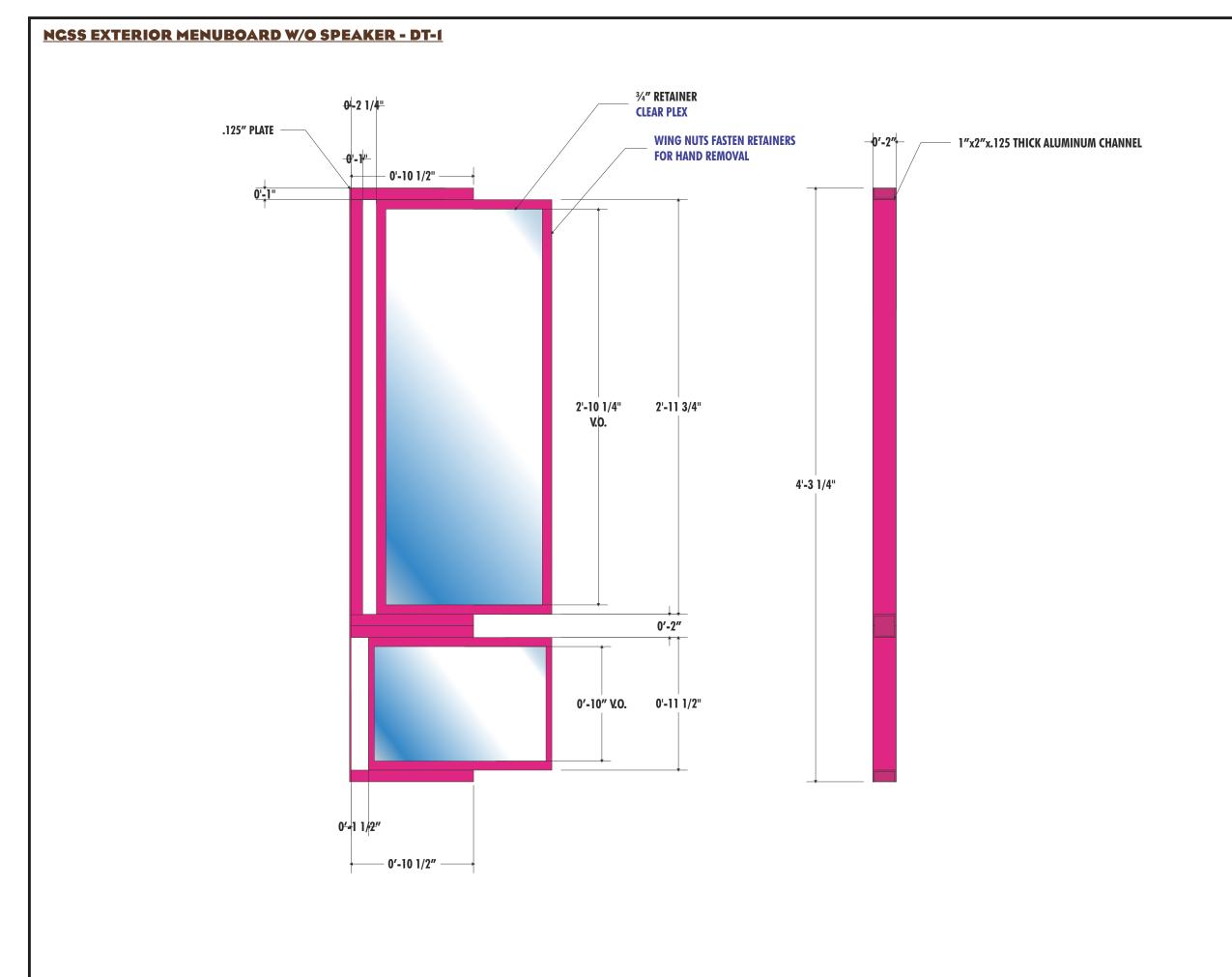
NOTE: THESE DRAWINGS ARE FOR IMAGE DESIGN GUIDANCE ONLY. IT IS THE SOLE RESPONSIBILITY OF THE ARCHITECTS AND ENGINEERS RETAINED BY THE FRANCHISEE TO PREPARE ALL NECESSARY CONSTRUCTION DOCUMENTS FOR THE PARTICULAR PROJECT LOCATION. DUNKIN' BRANDS, INC., THEIR AGENTS AND EMPLOYEES, DO NOT WARRANT THE ACCURACY OF THESE DRAWINGS, NOR DOES DUNKIN' BRANDS, INC. GUARANTEE THAT THESE DRAWINGS AND THEIR COMPONENTS MEET THE REQUIREMENTS OF ANY FEDERAL, STATE OR LOCAL LAWS, REGULATIONS, ORDINANCES, BUILDING CODES OR INDIVIDUAL SITE CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF THE FRANCHISEE AND OF THE ARCHITECT AND ENGINEERS RETAINED BY THE FRANCHISEE TO ENSURE COMPLIANCE WITH ALL APPLICABLE LAWS, REGULATIONS, ORDINANCES, CODES AND OTHER REQUIREMENTS, INCLUDING, WITHOUT LIMITATION, AMERICANS WITH DISABILITIES ACT.



4949 South 110th Street PO Box 20020 Greenfield, WI 53220-0020 414.529.7131



| Revisions: | DD Rotating   | Date:  | 9/30/0 |
|------------|---------------|--------|--------|
|            | Preview Board | Scale: | NTS    |
|            |               | Drawn: | C HAI  |
|            | (Opilorial)   |        |        |
|            | FILE          | D      | T-6    |



#### **HILTONDISPLAYS**

106 W. Summit Hill Dr. • Knoxville TN 37902 P 800 353 9132 • F 864 242 2204 email: dunkinsigns@hiltondisplays.com

#### **PART NUMBER**

DD-DT-MB-NS

#### **DESCRIPTION**

2 PANEL DD MENUBOARD NO SPEAKER

#### **CUSTOMER CONTACT**

Michele Inglese

#### SALESMAN / PM

**Preston Smith** 

#### DESIGNER

**B.PERRY** 

#### DWG. DATE

10-16-14

#### **REV. DATE / REVISION**

| 06-19-15 | 10" Depth            |
|----------|----------------------|
| 07-22-15 | 8" Depth angle cover |
|          |                      |

#### SCALE

As Noted

#### DD DRAWING #

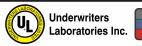
DT-1

NGSS EXTERIOR MENUBOARD W/O SPEAKER

#### DESIGN SPECIFICATIONS ACCEPTED BY:

| EST:    | CLIENT:  |  |
|---------|----------|--|
| SLS/PM: | LANDLORI |  |

THE INTENT OF THIS DRAWING IS TO SHOW A CONCEPTUAL REPRESENTATION OF THE PROPOSED SIGNAGE. DUE TO VARIATIONS IN PRINTING DEVICES AND SUBSTRATES, THE FINISHED PRODUCT MAY DIFFER SLIGHTLY FROM DRAWING.



# 1 5/8" RETAINER - 2'-11 1/2" -HINGE **CLEAR PLEX** HINGE 5'-3" HINGE HINGE DOORS ADHERE TO FRAME VIA FLATHEAD SCREWS

NCSS EXTERIOR MENUBOARD W/O SPEAKER - DT-1

#### **HILTONDISPLAYS**

106 W. Summit Hill Dr. • Knoxville TN 37902 P 800 353 9132 • F 864 242 2204 email: dunkinsigns@hiltondisplays.com

#### **PART NUMBER**

DD-DT-MB-NS

#### **DESCRIPTION**

2 PANEL DD MENUBOARD **NO SPEAKER** 

#### **CUSTOMER CONTACT**

Michele Inglese

#### SALESMAN / PM

**Preston Smith** 

#### DESIGNER

**B.PERRY** 

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|   | 06-19-15 | 10" Depth            |
|---|----------|----------------------|
|   | 07-22-15 | 8" Depth angle cover |
| ı |          |                      |

#### SCALE

As Noted

#### DD DRAWING #

DT-1

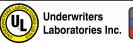
NGSS EXTERIOR MENUBOARD W/O SPEAKER

#### **DESIGN SPECIFICATIONS ACCEPTED BY:**

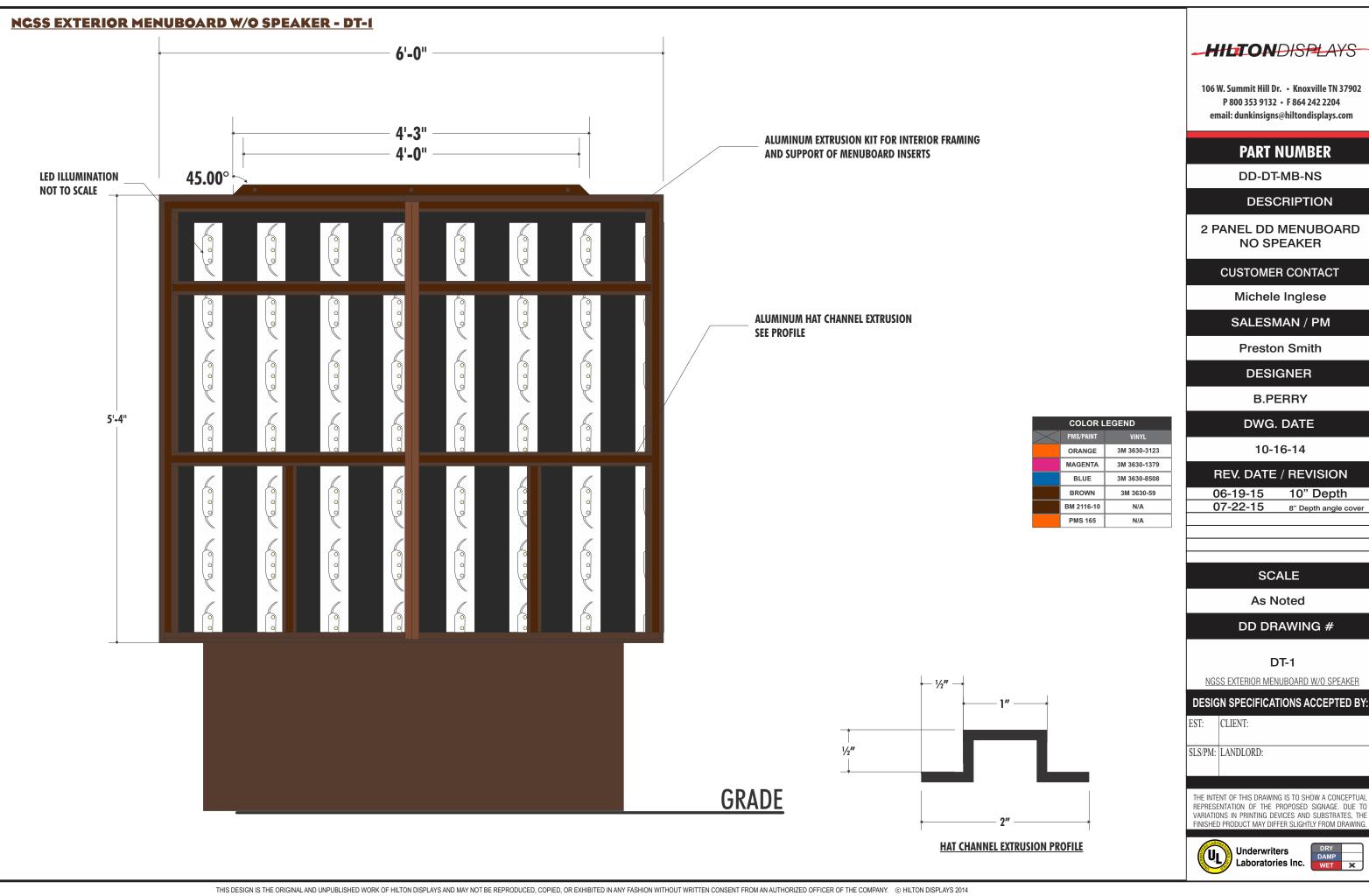
EST: CLIENT:

SLS/PM: LANDLORD:

THE INTENT OF THIS DRAWING IS TO SHOW A CONCEPTUAL REPRESENTATION OF THE PROPOSED SIGNAGE. DUE TO VARIATIONS IN PRINTING DEVICES AND SUBSTRATES, THE FINISHED PRODUCT MAY DIFFER SLIGHTLY FROM DRAWING.







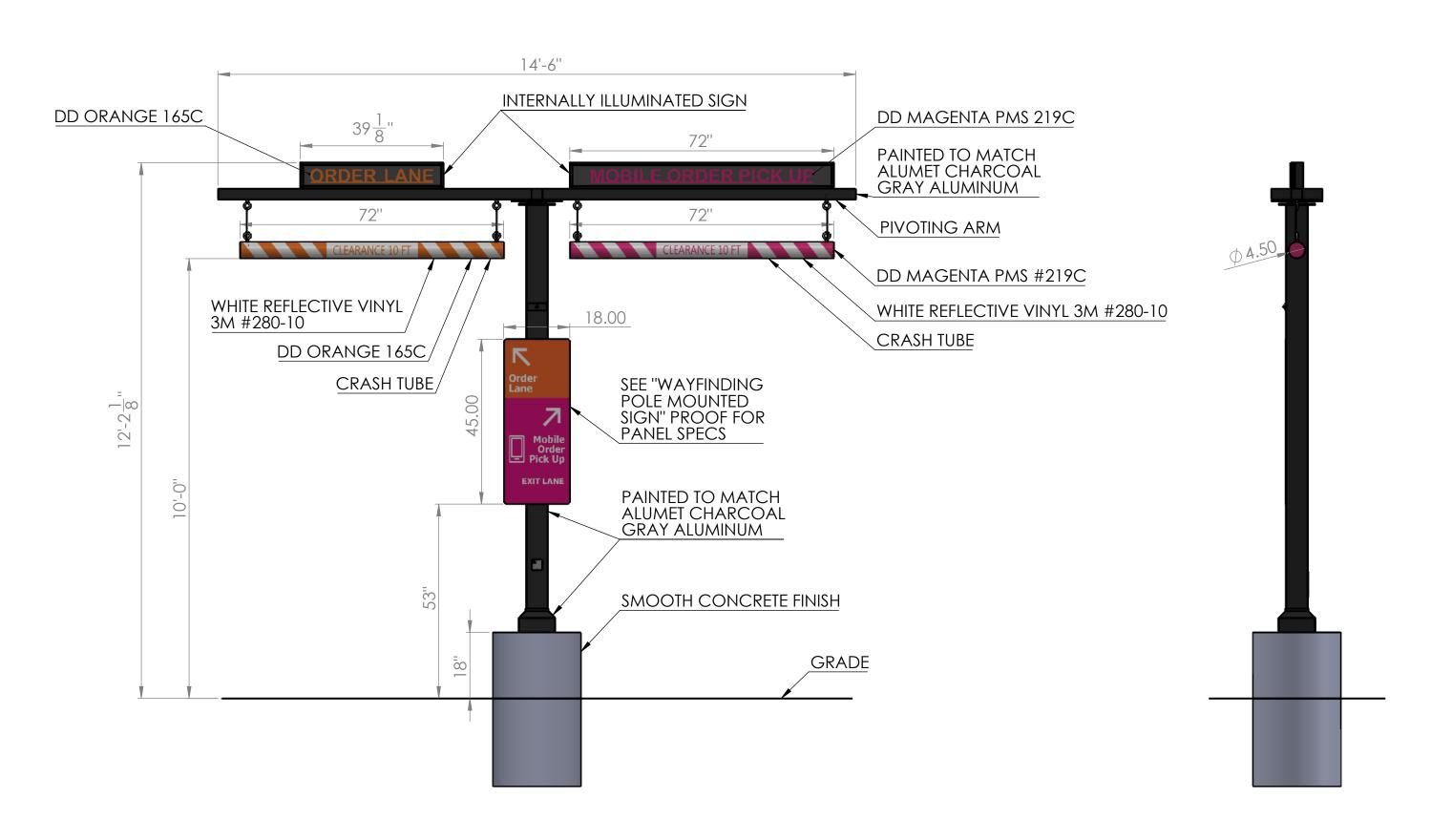
P 800 353 9132 • F 864 242 2204 email: dunkinsigns@hiltondisplays.com

2 PANEL DD MENUBOARD

| 06-19-15 | 10" Depth            |  |
|----------|----------------------|--|
| 07-22-15 | 8" Depth angle cover |  |
|          |                      |  |

| EST:      | CLIENT:   |
|-----------|-----------|
| CI C/D) I | LANDLORD  |
| SLS/PM:   | LANDLORD: |
|           |           |
|           |           |
|           |           |

REPRESENTATION OF THE PROPOSED SIGNAGE. DUE TO VARIATIONS IN PRINTING DEVICES AND SUBSTRATES, THE FINISHED PRODUCT MAY DIFFER SLIGHTLY FROM DRAWING





# Uni-Structures, Inc.

8540 COBB CENTER DR. STE 100 KENNESAW, GA 30152 PHONE:(770)-499-2000

PHONE: (800) - 386-9864

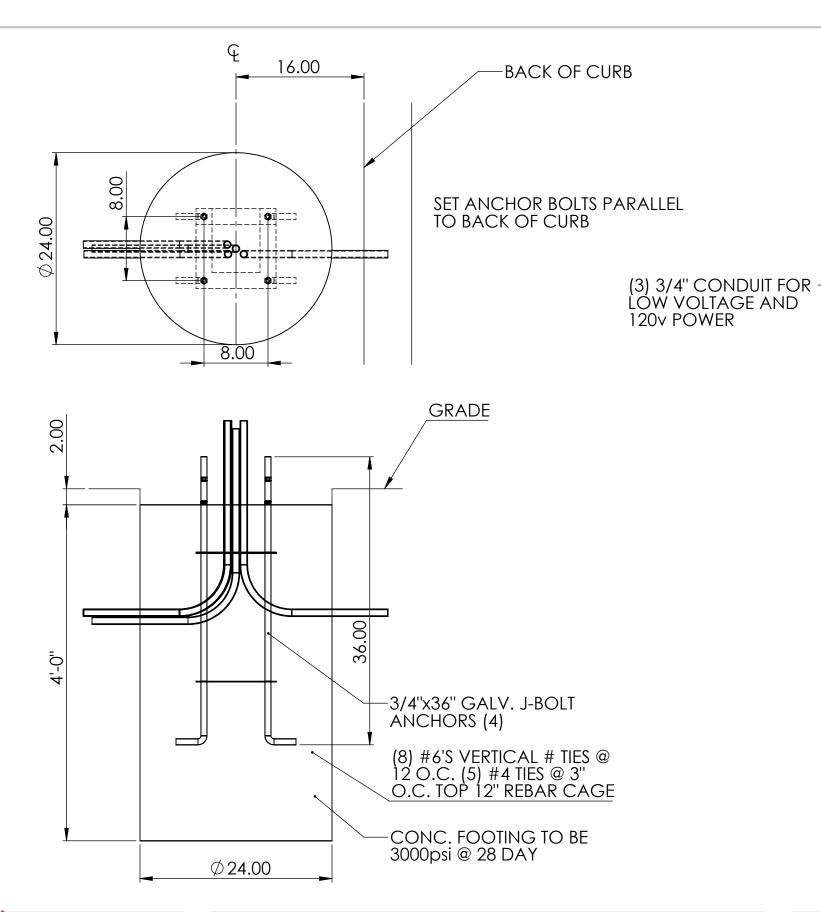
| CLIENT: DUNKIN DONUTS   |         | MADE IN THE USA |               |            |
|---|---------|-----------------|---------------|------------|
| DOMETH DOMOTS   |         | DATE: 5/18/2018 |               |            |
| LOCATION: Marie   | tta, GA |                 |               |            |
| STORE:  | DWG #:  | ASSEMBLY #:     |               |            |
| FILE LOCATION: Z:\00Projects\Dunkin Donuts\4Standards\Clearance Bar Double\ |         |                 |               |            |
| SALES: D. McDougal DE   |         | DESIGN          | ER: D. Carter | SCALE: NTS |

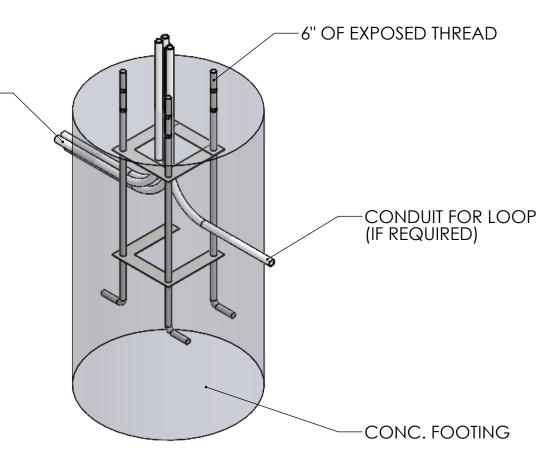
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# OVERVIEW: DOUBLE CLEARANCE BAR

PART #:
DUNKIN\_DOUBLE\_CLEARANCE\_BAR
SHEET: 1 OF 9





#### ANY SITE SPECIFIC ENGINEERING SUPERSEDES THIS DETAIL



PHONE: (800) - 386 - 9864

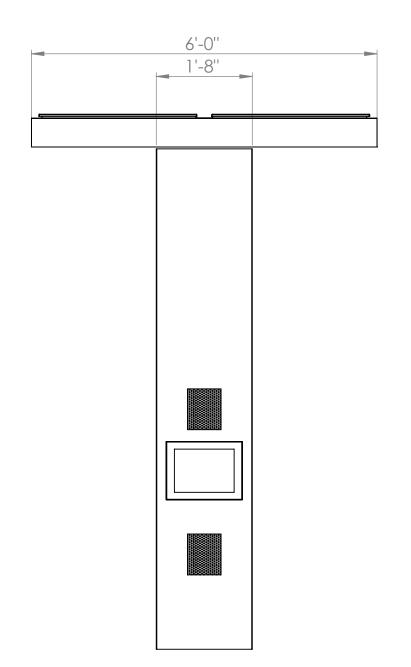
Uni-Structures, Inc. CLIENT: DUNKIN DONUTS MADE IN THE USA DATE: LOCATION: Marietta, GA ASSEMBLY #: ##### DWG #: STORE: FILE LOCATION: Z:\00----Projects\Dunkin Donuts\4----Standards\Clearance Bar Double\ SALES: D. McDougal DESIGNER: D. Carter SCALE: NTS

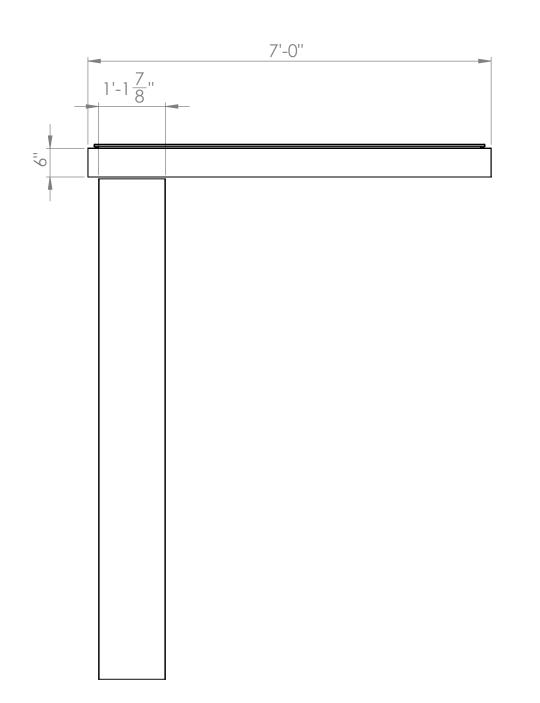
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FOOTING DETAIL

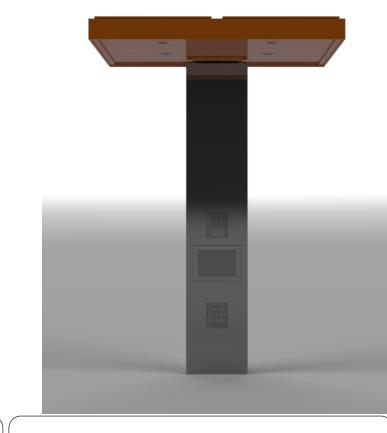
PART #: 200066-08

SHEET: 9 OF 9











# Uni-Structures, Inc.

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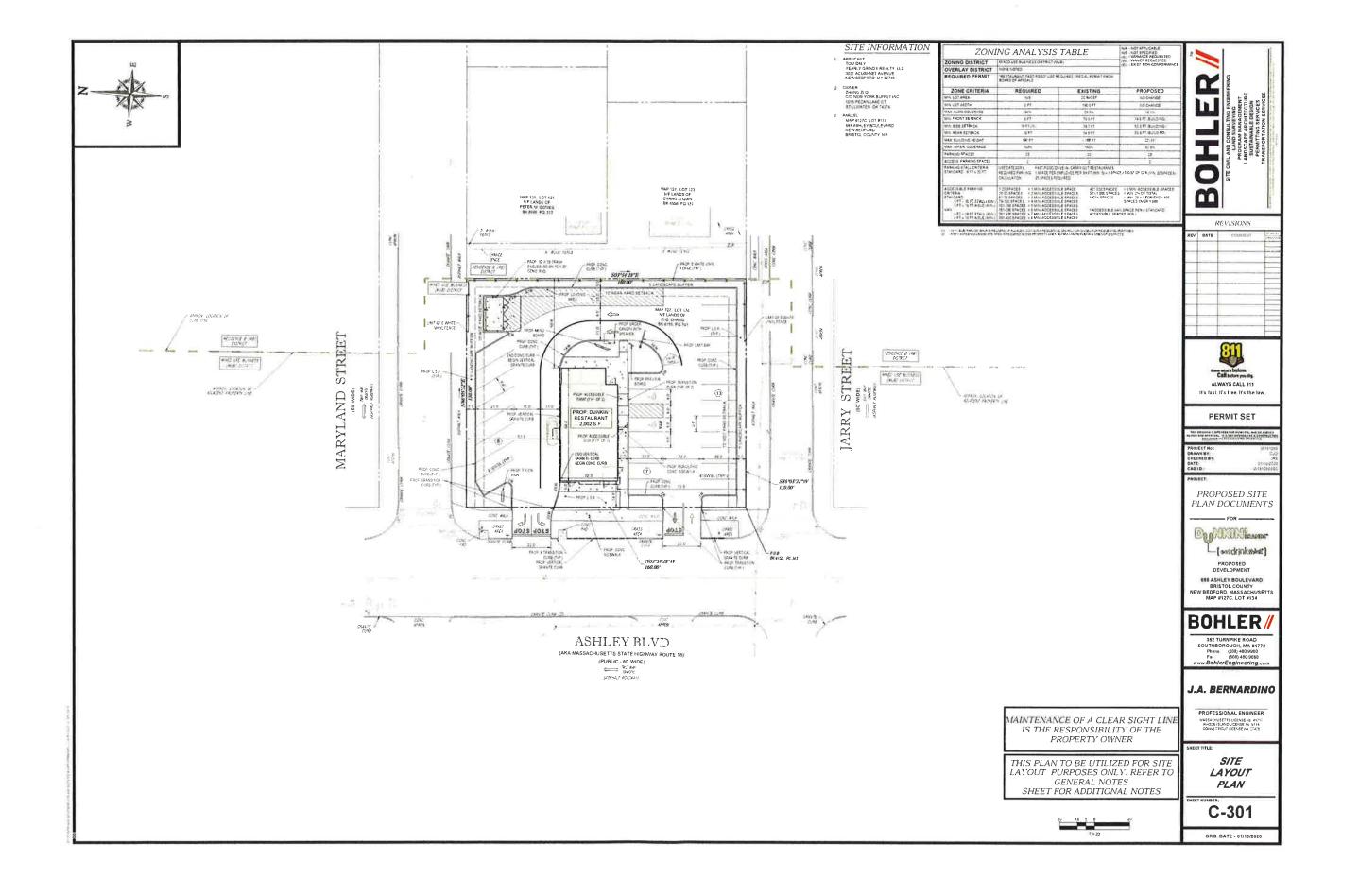
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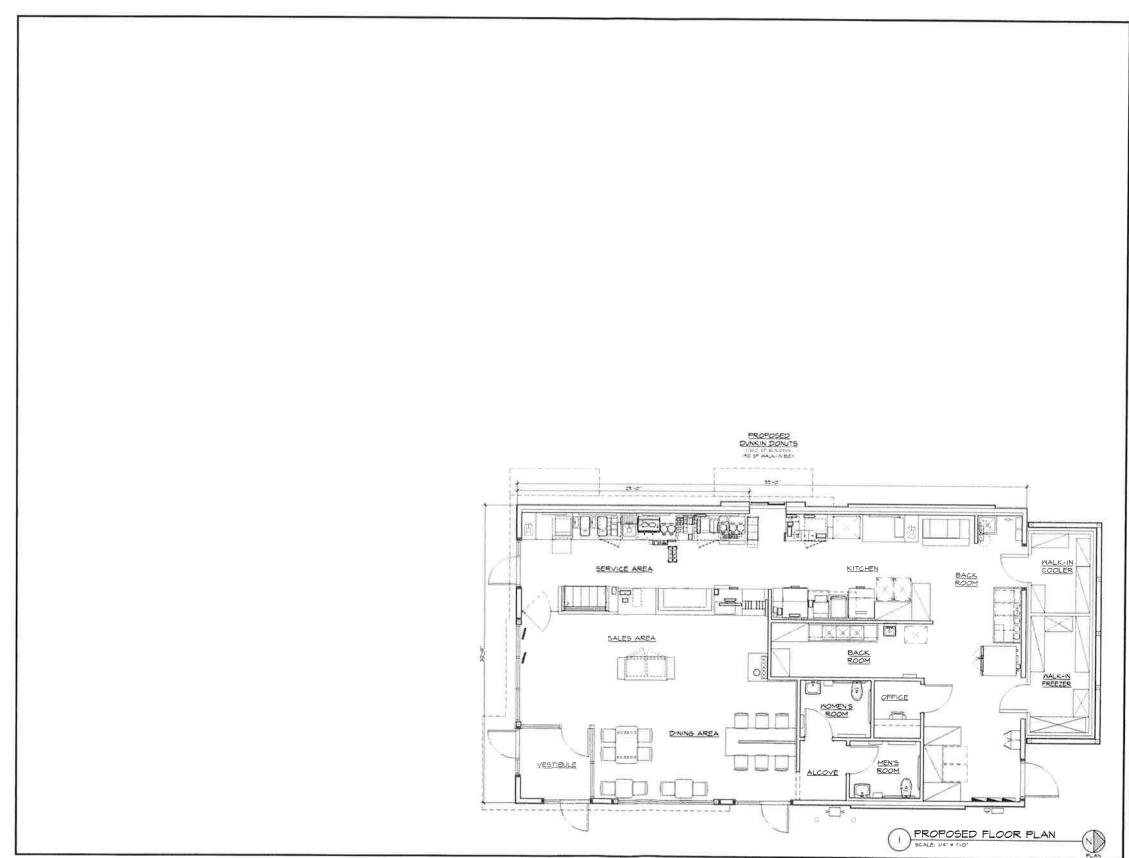
| CLIENT: DU   | NKTN   |  |  | MADE IN THE USA |
|--|--------|--|--|-----------------|
|  | MIXTIA |  |  | DATE:01/24/2018 |
| LOCATION: CITY, ST                                   |        |  |  |                 |
| STORE: #### DWG #: 1015A   ASSEMBLY #: 203162-01     |        |  |  |                 |
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| SALES: DANA McDOUGAL DESIGNER: CJ MAYS SCALE: NTS    |        |  |  |                 |

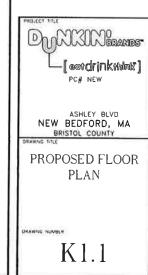
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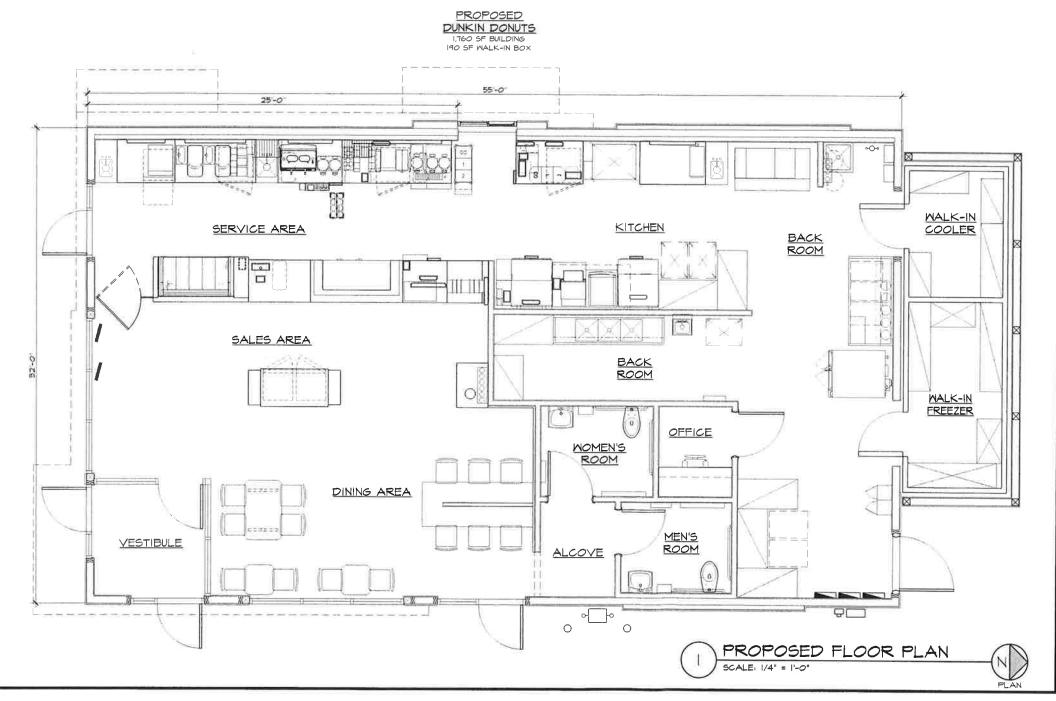
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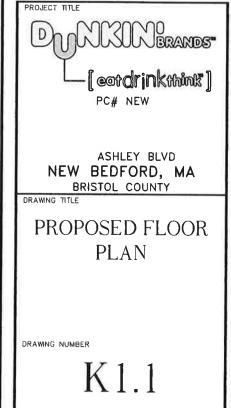
SHEET: 1 OF 1

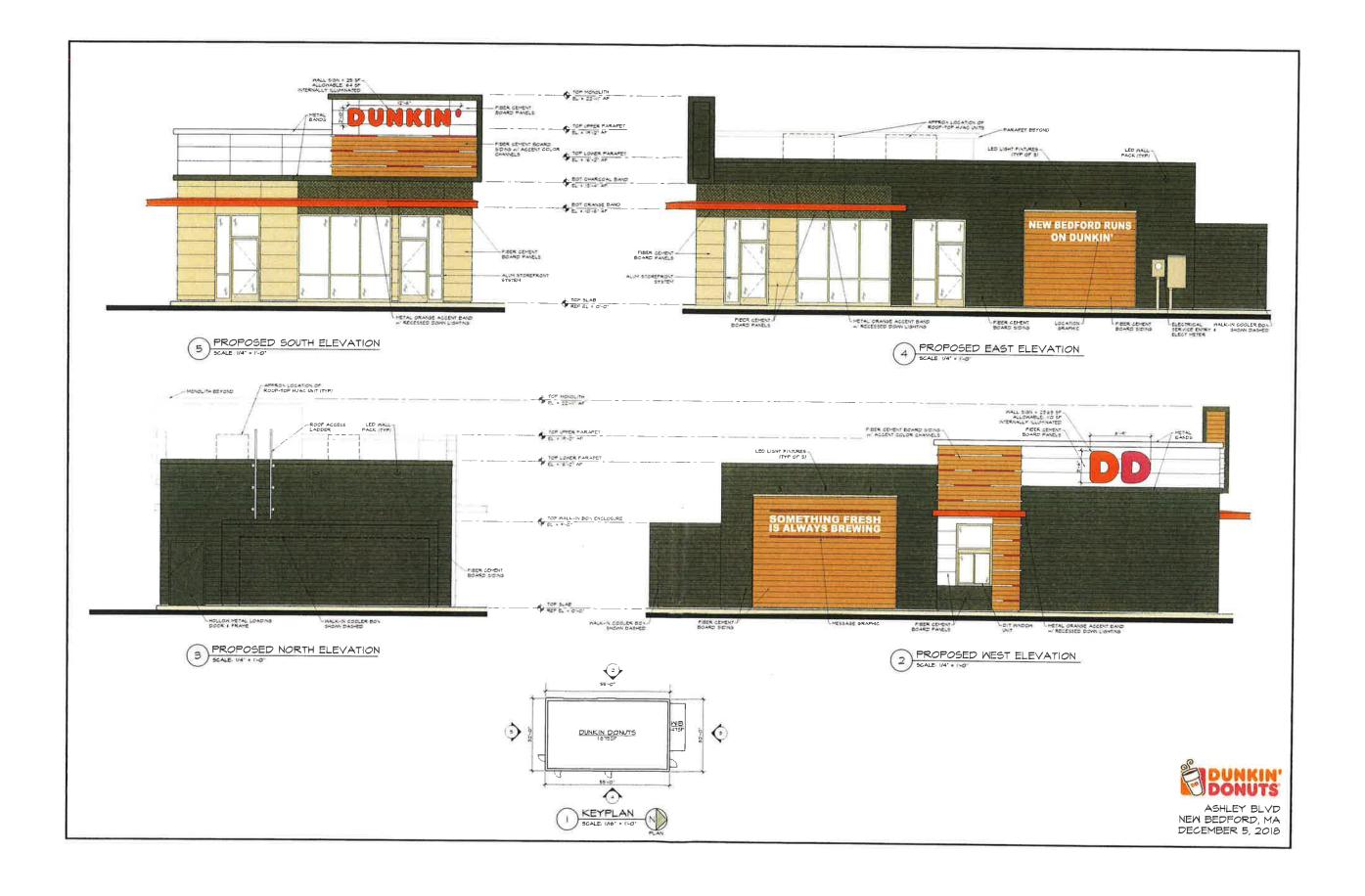


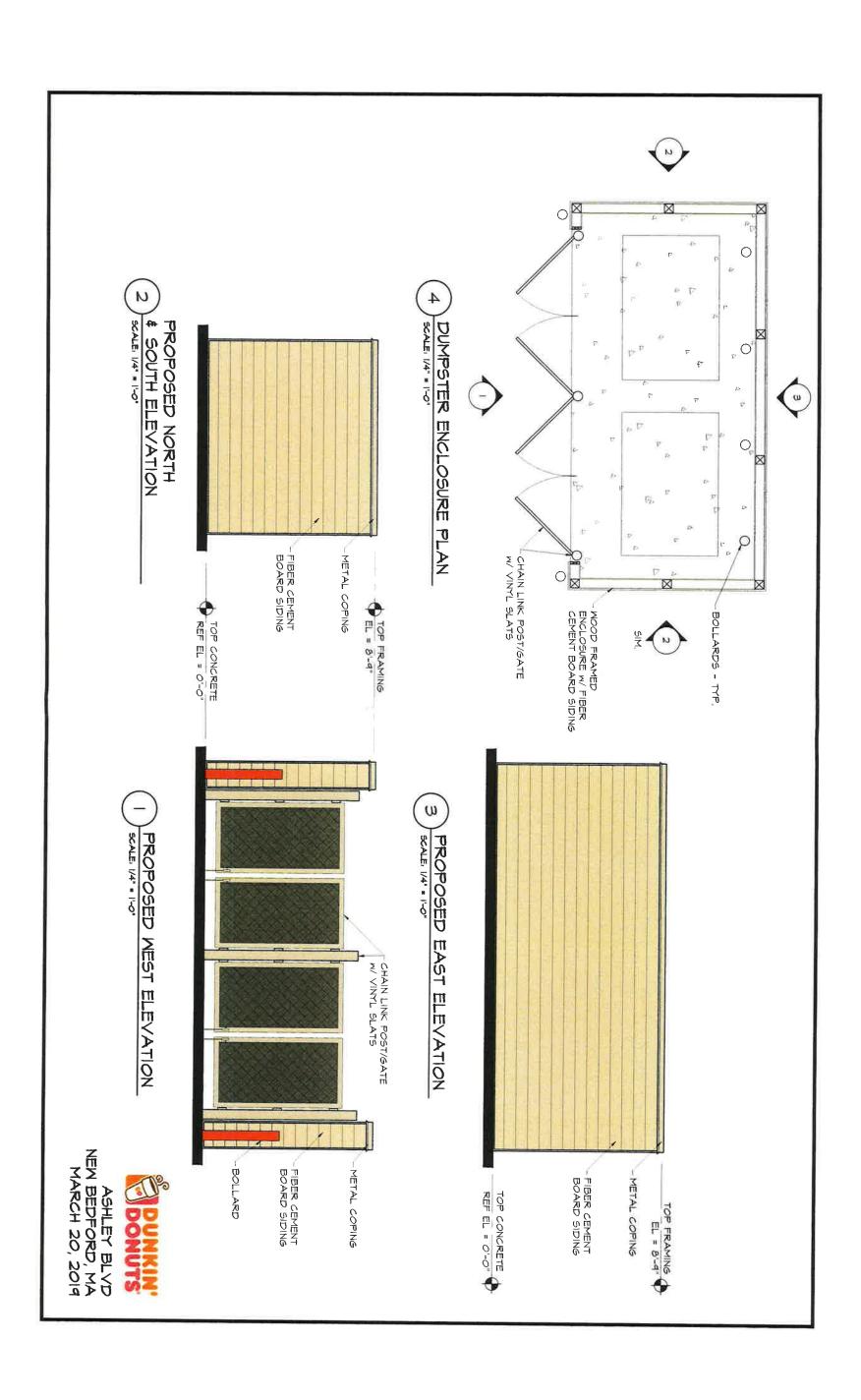








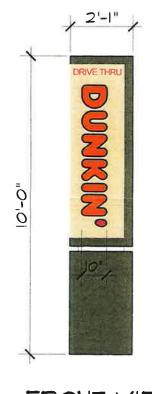




# SIGN CODE:

I SF SIGN AREA = I LINEAR FT FRONTAGE SIGN SHALL NOT EXCEED 25 SF IN AREA IO'-O" MAX FROM GROUND TO BOT OF SIGN I5'-O" MAX FROM GROUND TO TOP OF SIGN

| SIGN SCHEDULE |            |                           |         |       |  |
|---------------|------------|---------------------------|---------|-------|--|
| QTY           | LOCATION   | OVERALL DIMENSIONS        | LETTERS | AREA  |  |
| I             | PYLON SIGN | 2'-1"L × 10'-0"H × 2'-1"D | 10" H   | 25 SF |  |







SIDE VIEW

# PROPOSED PYLON SIGN

SCALE: 1/4"=1'-0"



ASHLEY BLVD NEW BEDFORD, MA NOVEMBER 12, 2018